

Sebree Solar II, LLC

Case No. 2022-00131

Application – Exhibit 12

Attachment A

Exhibit 7

Part 2

Phase I Environmental

Site Assessment

(1042 Pages)

cert. 198207

Form G

WELL RECORD

RECEIVED
JUL 20 1962



DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

16-0-24

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 6721 11200 ESL V1950FWL Oil or Gas Well Oil
(Kind)

Company Caspian Oil Co. Casing and Used in Left In Tubing
Address 620 Court Bldg. Evansville Ind. Drilling Well

Farm Josie Handley Acres..... Size

Location (waters) One (1) 408 Gr. Kind of Packer
Well No. One (1) Elev. 408 Gr. at 65' / 60sks Cement. Surf. Casing

Cherry Hill Extd. County Henderson

Drilling Commenced June 29, 1962 8 1/4" Depth Set.....
Drilling Completed July 8, 1962 6% Perf. top.....
3 Perf. bottom.....

Name of Contractor Ellis Drlg. Co. 2 Liners Used.....
Address of Contractor Box 348 O'boro, Ky. Perf. top.....
Date Shot..... From..... To..... Perf. bottom.....

With.....

Open flow /10ths Water in..... Inch Casing Cemented Size No. Ft. Date
/10ths Merc. in..... Inch 5 1/2" (2477') at 2480' / 100 Sks Cement
on July 8, 1962.

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Surface	Soil and Sand		0	20			
Shale	and Sand		20	80			
Coal			80	84 ****			
Shale	and Sand		84	195			
Coal			195	199 ****			
Sand	and Shale		199	383			
Coal			383	388 ****			
Shale			388	445			
Shale	and Sand		445	589			
Coal			589	594 ****			
Shale	and Sand		594	970			
Sand	and Shale		970	1245			
Shale	and Sand		1245	1290			
Sand			1290	1427			
Lime	and Shale		1427	1458			
Shale	and Shaley Sand		1458	1475			
Lime, Shale	and Sand		1475	1610			
Lime	and Shale		1610	1675			
Shale			1675	1696			
Lime			1696	1702			
Shale	and Shaley Sand		1702	1766			
Lime			1766	1771			
Shale			1771	1797			
Sand	and Shale		1797	1847			
Lime			1847	1852			
Sand	and Shale		1852	1890			
Shale			1890	1894			
Lime			1894	1912			
Sand			1912	1944			
Shale			1944	1962			

2019277002



*****OVER*****

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Sand and Shale			1962	2001			
Shale and Shaley Sand			2001	2021			
Lime and Shale			2021	2078			
Shale and Shaley Lime			2078	2163			
Lime			2163	2170			
Shale and Sand			2170	2181			
Sand (Water)			2181	2206	***		
Hard Sand and Shale			2206	2236			
Lime			2236	2256			
Shale and Hard Sand			2256	2288			
Lime and Shale			2288	2295			
Sandy Lime and Shale			2295	2310			
Lime			2310	2323			
Shale and Lime			2323	2344			
Lime			2344	2375			
Shale and Lime			2375	2393			
Lime and Shale			2393	2419			
Lime			2419	2500			
DRILLER TOTAL DEPTH				2500	Feet		

2019277003



Date July 16, 1962 19.....

APPROVED Caspian Oil Company owner

By [Signature]
(Title) **Agent.**

HENDERSON

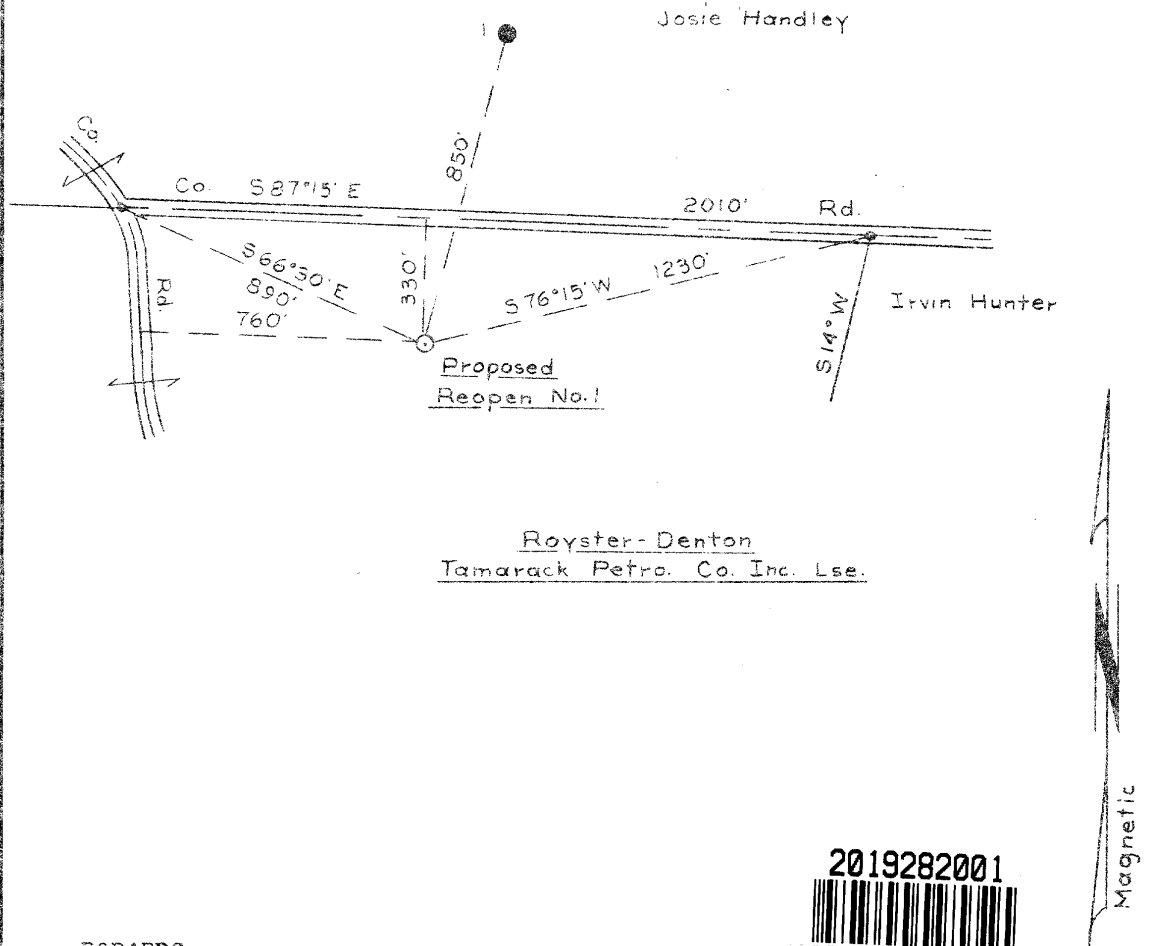
WELL LOCATION PLAT
F. E. MORAN ENGINEERING

Per. # 7919

16-0-24

1600 FNL
1650 FWL

54172



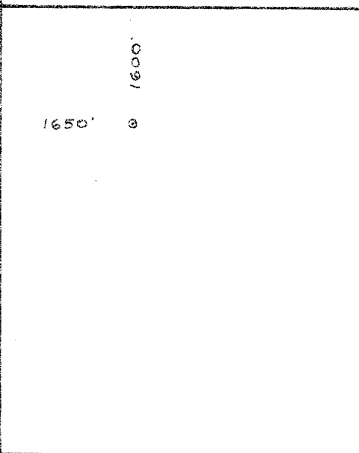
Royster-Denton
Tamarack Petro. Co. Inc. Lse.

2019282001



ROBARDS
NE/4 Sebree

CARTER COORDINATE
16-0-24 Scale 1" = 3000'
U S G S Topo



Operator Tamarack Petro. Co. Inc.
 Farm Royster-Denton
 Well No. 1 reopen Elevation 422 Gr. Transit
 County Henderson Kentucky
 Date 11-16-62 Scale 1"-400'
 Engineer F. E. Moran
 Address P. O. Box 663 Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

F. E. Moran
Registered Engineer No. 1961



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

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DEC 21 1962
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

16-0-24

1600 3/4" x 1650 7/8"

Permit No. 7917 7919 Oil or Gas Well Oil
(Kind)

Company Tamarack Petroleum Co., Inc. Casing and Used in Left In Tubing
Address 200 N. St. Joseph Ave. Drilling Well
Farm Royster-Denton Acres 1.17 Size
Location (waters) 16-0-24 Kind of Packer
Well No. 1 (reopen) Elev. 422 16
District Henderson County Henderson 13
Drilling Commenced 11-27-62 10
Drilling Completed 11-28-62 8 1/4
Name of Contractor E. F. Moran 6
Address of Contractor Evansville, Ind. 5 3/16
Date Shot From To Liners Used Perf. top
With Perf. bottom
Open flow /10ths Water in. Inch Casing Cemented Size No. Fr. Date
/10ths Merc. in. Inch 4 1/2 No. 2558 Date 11-28-62

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Surface			0	69			
Shale and Sand			69	628			
Sand			628	751			
Shale and Lime			751	922			
Shale and Sand			922	1150			
Sand			1150	1219			
Shale and Sand			1219	1362			
Sand			1362	1445			
Lime			1445	1472			
Shale and Lime			1472	1712			
L. Menard			1712	1718			
Shale and Sand			1718	1783			
Vienna			1783	1790			
Shale and Sand			1790	1915			
Glen Dean			1915	1930			
Shale and Sand			1930	2038			
Golconda			2038	2056			
Shale and Sand			2056	2179			
Barlow			2179	2185			
Shale			2185	2197			
Cypress Sand			2197	2230			
Shale and Lime			2230	2357			
Renault			2357	2392			
Shale and Lime			2392	2502			
McClosky "A"			2502	2517			
Lime and Shale			2517	2598			
TOTAL DEPTH				2598			

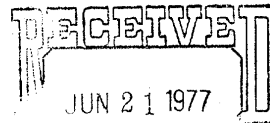
2019282002



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DEC 27 1962

Kentucky Geological Survey

FOR USE BY OIL AND GAS OPERATOR



AFFIDAVIT TO TIME AND MANNER OF PLUGGING AND FILLING WELL

As Required by Law

COMMONWEALTH OF KENTUCKY DEPARTMENT OF MINES AND MINERALS

P. O. Box 680 LEXINGTON, KENTUCKY

Oil and Gas Division

DEPT. OF MINES & MINERALS OIL & GAS DIVISION LEXINGTON, KENTUCKY

Coal Operator or Owner: Tamarack Petroleum Co.
 Name of Well Operator: P.O. Box 356
 Address: Henderson, Kentucky 42420
 Complete Address: Henderson, Kentucky 42420

Coal Operator or Owner: _____
 Address: _____

Coal Operator or Owner: _____
 Address: _____

Coal Operator or Owner: _____
 Address: _____

Permit No. 7919 16-0-24

Well No. One

Farm Royster Denton

County Henderson, Ky.

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY, }
County of Henderson } as:

Orville L. Nicholas and Bobby Munsey
being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Tamarack Petroleum Company, well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the May 24, 1977, and that the well was plugged and filled in the manner described in detail on the reverse side of this page. As per information furnished me by the customer, his agent or representative.

The work of plugging and filling said well was completed on the 24 day of May, 1977.

THE ABOVE WELL DATA WAS FURNISHED BY CUSTOMER.

SIGNED Orville L. Nicholas 26 day of May, 1977
Sworn to and subscribed before me this

Orville L. Nicholas
Bobby D. Munsey Jr.
J. H. Jones
Notary Public

My commission expires: Notary Public Kentucky State at Large My Commission Expires February 24, 1978.



A cement plug was placed in said well from
400' depth to the 0' depth 250sks cement

2019282004



THE ABOVE WELL DATA WAS
FURNISHED BY CUSTOMER.

SIGNED Amelle Nicholas

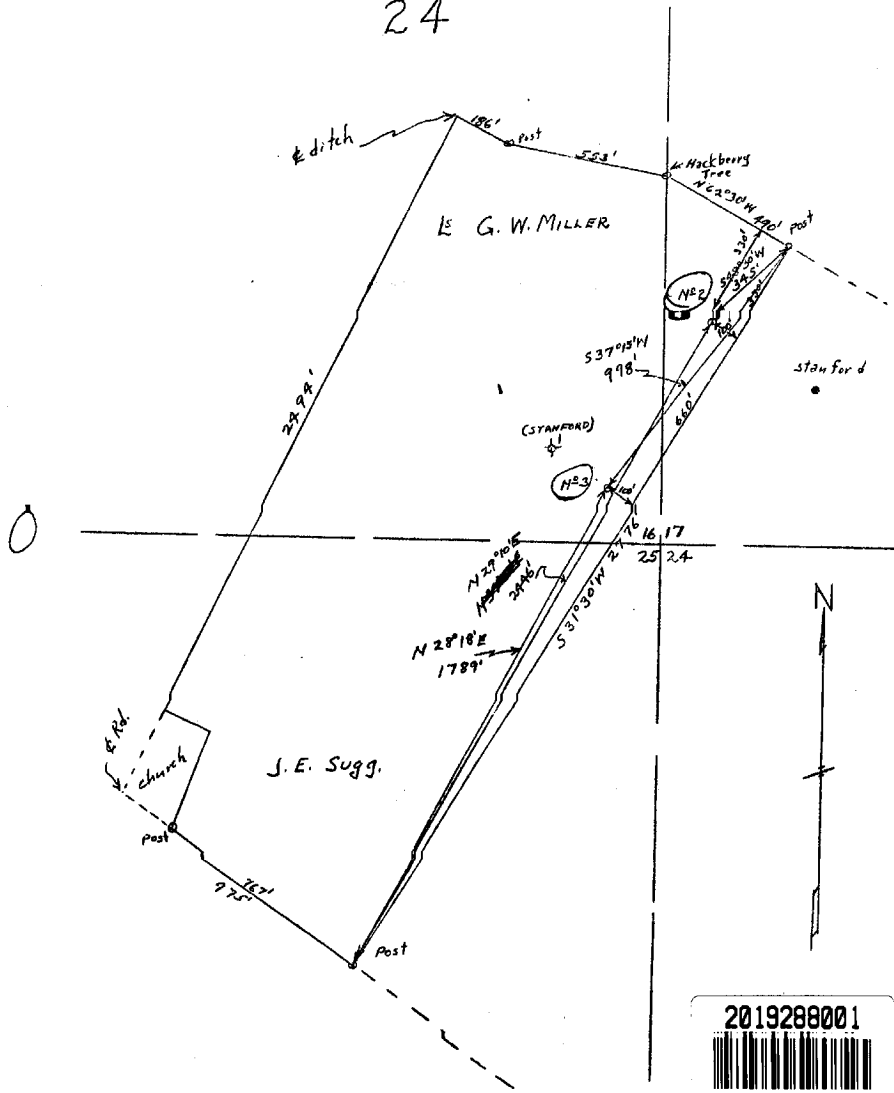
Serial No. _____
 State _____ Co. Hew. Sec. 16 T. 0 R. 24 Pool Greenbriar N.
 Oper. J. W. Miller Elev. 145 424 DF. _____ Gr. _____
 Farm J. E. Suggs No. 1 TD. 2321 PB. _____

LOCATION				TOP	DRILLER OR SAMPLE	ETC.
Scout	<u>700 S</u>	<u>600 E</u>	<u>S</u>	Prov. Ls.		<u>2320</u>
Farm				No. 11 Coal		
L.&S.				No. 9 Coal		
				Mansfield		
				Penn. Sd.		
Comm. <u>4-5-53</u>	Comp. <u>5-14-53</u>			B. Penn.		
Remarks:				Biehl		
CASING RECORD				Up. Kincaid		
12"	10"	8"	<u>7"</u>	Lo. Kincaid		
	<u>46</u>		<u>2302</u>	Degonia		
SHOT-ACID RECORD				Clore		
Date	Qt.-Gal.	From	To	Palestine		
	<u>30g</u>	<u>2309</u>	<u>19</u>	Up. Menard		
				Menard		<u>1606-72</u>
				Lo. Menard		<u>1698-1700</u>
I. P. <u>35/24 1/4s Ben</u>				Walt'burg		
DATE	DRILLING RECORD			"		
	<u>MIR</u>			Vienna		<u>1764-69</u>
	<u>Ø1403</u>			T. S. (Jett)		<u>NS 1776-</u>
	<u>DST 2300-21</u>			Up. G. D.		
	<u>1 60' 0</u>			Lo. G. D.		<u>1898-1908</u>
	<u>30' OCM</u>			Hd. (Jones)		
	<u>WOC</u>			"		
	<u>RUST</u>			Golconda		<u>2008-</u>
	<u>207D - sub. 1/hr.</u>			Jackson		
	<u>shot & 207D</u>			Barlow Ls.		<u>2144-50</u>
	<u>sub. 2/hr.</u>			Cypress		<u>W 2178-98</u>
	<u>shot</u>			"		
	<u>TOP</u>			Up. Pt. Creek		<u>2218-34</u>
				Lo. Pt. Creek		<u>2272-92</u>
				Beth-Ben		<u>SO 2302-20</u>
				Up. Renault		
				Renault		
				Aux Vases		
				"		
				St. Gen.		
				O'hara-Rosi		
				Fredonia		
				McClosky		
				"		
				"		
				St. Louis		
				Chatt		
				Dev. Ls.		
				Silurian		
				Trenton		
				St. Peter		

2019286001



24



2019288001



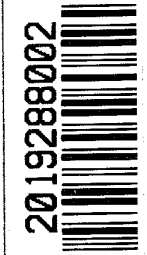
COMPANY: George W. Miller
 ADDRESS: 519 Market St., Mount Carmel, Ill.
 FARM: J. E. Sugg
 ACRES: 0.2
 WELL No. 2 and 3
 ELEVATION: 422 ground at No. 2; 422 ground at No. 3
 QUADRANGLE: 0) - 24
 SECTION: No. 2 in Section 17; No. 3 in Section 16.
 COUNTY: Henderson
 ENGINEER: *Thomas B. Alldredge*
 ENGINEER'S REGISTRATION No. 2292
 DATE: March 28, 1953
 Scale: 1" = 400'



Serial No. _____
 State Co. Hen. Sec. 16 T 0 R 24 Pool Greenbrier N.
 Oper. D.W. Miller Elev. _____ DF. 425 Gr. _____
 Farm J.E. Suggs No. 2(3) TD. 2316 PB. _____

LOCATION		TOP	DRILLER OR SAMPLE	REC
Scout Farm L.&S.	300 S 570 E S	Prov. Ls.		2316
		No. 11 Coal		
		No. 9 Coal		
		Mansfield		
		Fenn. Sd.		
		B. Penn.		
		Biehl		
		Up. Kincaid		
		Lo. Kincaid		
		Degonia		
		Clare		
		Palestine		
		Up. Menard		
		Menard		
		Lo. Menard		1702-08
		Waltburg		
		"		
		Vienna		1770-76
		T. S. (Jeff)		1704-30
		"		
		Up. G. D.		
		Lo. G. D.		1702-13
		Hd. (Jones)		
		"		
		Golconda		
		Jackson		
		Barlow Ls.		2152-58
		Cypress		
		"		
		Up. Ft. Creek		
		Lo. Ft. Creek		2274-91
		Beth-Ben		MS 2301-09
		"		20 2309-16
		Up. Renault		
		Renault		
		Aux Vases		
		"		
		St. Gen.		
		O'hara-Rosi		
		Fredonia		
		McClosky		
		"		
		"		
		St. Louis		
		Chatt		
		Dev. Ls.		
		Silurian		
		Trenton		
		St. Peter		

Remarks: Comm. 4-18-53 4 1953
 45
 109' 234' 16'
 I. Post. 30/34
 DATE DRILLING RECORD
 RVR
 9/603
 PST 2240-2316
 100' 0
 15' 0cm
 COST
 COST est. 1/ hr.
 COST est. 2/ hr.
 PDE



Handwritten signature



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 542-W8

Oil or Gas Well Oil
(Kind)

Company Indiana Farm Bureau Casing and Used in Left In Tubing
Address P.O. Box 271 Mt. Vernon, Indiana Drilling Well
Farm H. L. Denton Acres 70 acres Size
Location (waters) Sec. 15-0-24 Kind of Packer
Well No. 1 Elev. 403 GR 16
District County Henderson 13
Drilling Commenced August 28, 1958 10
Drilling Completed September 16, 1958 8 1/4
Name of Contractor Slaughter 6 3/4
Address of Contractor Evansville, Indiana 5 3/16
Date Shot From To 3
Liners Used 2 Perf. top 2486
Perf. bottom 2492

With
Open flow /10ths Water in Inch Casing Cemented Size No. Ft. Date
Surface: 30' of 8 5/8" with 30 sacks
/10ths Merc. in Inch Oil string: 2492' of 5 1/2" with 125 sacks

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
DRILLERS LOG ATTACHED							

RECEIVED
DEC 20 1958

DEPT. OF MINES AND MINERALS
COMMONWEALTH OF KENTUCKY

DRILLER'S LOG

H. L. Denton #1
Henderson County, Kentucky

Operator: Indiana Farm Bureau
 Contractor: Slagter Producing Corp.
 Location: Section 15-0-24
 Elevation: 401' 403 GR.
 Total Depth: 2499'
 Drilling Commenced: August 28, 1958
 Drilling Completed: September 16, 1958

Casing: Set 29 ft. of 8 5/8" surface
 pipe with 29 sacks cement

 5 1/2" oil string at 2498'
 with 125 sacks cement

<u>FROM</u>	<u>TO</u>	<u>FORMATION</u>
0	29	Surface
29	50	Hard sand
50	80	Sand and shale
80	88	Lime
88	120	Sand and shale
120	123	Coal
123	185	Sand and shale
185	190	Coal
190	195	Shale
195	200	Lime
200	215	Lime
215	270	Shale
270	273	Coal
273	300	Shale
300	400	Shale and sand
400	420	Sand
420	450	Sand and shale
450	455	Shale
455	616	Sand and shale
616	817	Sand and shale
817	945	Sand and shale
945	1054	Sand and shale
1054	1168	Sand and shale
1168	1190	Sand and shale
1190	1205	Sand (water)
1205	1220	Sand and shale
1220	1225	Sandy shale
1225	1252	Sandy shale w/trace lime
1252	1260	Shale
1260	1335	Shale and sand
1335	1402	Shale and sand
1402	1439	Sand and shale
1439	1450	Lime
1450	1473	Lime
1473	1491	Lime
1491	1495	Shale
1495	1526	Lime
1526	1572	Shale and lime
1572	1576	Sand
1576	1579	Sand
1579	1598	Sand and shale
1598	1639	Shale and lime



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks

2019314003


Date December 18, 19 58

APPROVED *Henry Thompson* Owner

By INDIANA FARM BUREAU COOP. ASS'N., INC.
 (Title)

<u>FROM</u>	<u>TO</u>	<u>FORMATION</u>
1629	1662	Lime and shale
1662	1665	Lime and shale
1665	1678	Lime
1678	1704	Shale
1704	1734	Shale and lime
1734	1764	Shale
1764	1767	Lime
1767	1770	Lime
1770	1830	Shale
1830	1870	Shale and sand
1870	1907	Shale and shaly sand
1907	1921	Shale and sand
1921	1953	Shaly sand and lime
1953	1996	Shale and shaly sand
1996	2024	Shaly sand
2024	2061	Lime and shale
2061	2091	Shale, lime and shale
2091	2117	Shale and shaly lime
2117	2132	Lime and shale
2132	2137	Shale
2137	2145	Shale and lime
2145	2180	Shale and lime
2180	2189	Lime and shale
2189	2205	Shale and sand
2205	2243	Sand, lime and shale
2243	2265	Sand, lime and shale
2265	2303	Shale and lime
2303	2307	Sand and shale
2307	2326	Shaly sand and lime
2326	2360	Shale and lime
2360	2381	Lime and shale
2381	2414	Lime and shale
2414	2439	Lime and shale
2439	2474	Shale and lime
2474	2486	Lime and shale
2486	2490	Sandy lime oil
2490	2499	Sandy lime "oil"
		Total Depth



STATE OF INDIANA)
) SS:
 COUNTY OF VANDERBURGH)

I, the undersigned, A. J. Slagter, 111, Vice-President of Slagter Producing Corp. do hereby certify that the foregoing is a true and correct copy of the Driller's Log of formations for the Denton #1 well, Section 15-0-24, Henderson County, Kentucky.

Witness my hand this 18th day of September, 1958.

A. J. Slagter
 A. J. Slagter, 111

Subscribed and sworn to before me, a Notary Public in and for said County and State, this 18th day of September, 1958.

Helen Fuller
 Notary Public

My Commission Expires:
 Oct. 11, 1960

FOR USE BY OIL AND GAS OPERATOR



R# 2019314

**AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL.**

As Required by Law
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS

P. O. Box 691
LEXINGTON, KENTUCKY
Oil and Gas Division

Kentucky Geological Survey



2019314005

E. J. Denton
Coal Operator or Owner

622 Powell St., Henderson, KY
Address

Coal Operator or Owner

Address

Coal Operator or Owner

Address

Indiana Farm Bureau Coop. Ass'n., inc.
Name of Well Operator

P.O. Box 271 Mt. Vernon, Indiana
Complete Address

Permit No. 542-W8

Well No. 1

Farm H.L. Denton

County Henderson

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,
Henderson
County of _____ } or

F. Cummins Jr. and J. Sumpardner

being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Indiana Farm Bureau, well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 4 day of January, 1967, and that the well was plugged and filled in the manner described in detail on the reverse side of this page.

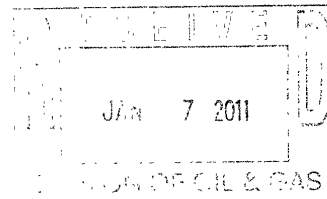
The work of plugging and filling said well was completed on the 5 day of January, 1967.

[Signature]
[Signature]

Sworn to and subscribed before me this 10 day of February, 1967

[Signature]
Notary Public

My commission expires: _____



Well plugged from:	2435	CIEP	
	2435	2335	15 sx cement
	2335	630	Fluid
	630	540	25 sx cement
	540	320	Fluid
	320	140	50 sx cement
	140	30	Fluid
	30	0	15 sx cement

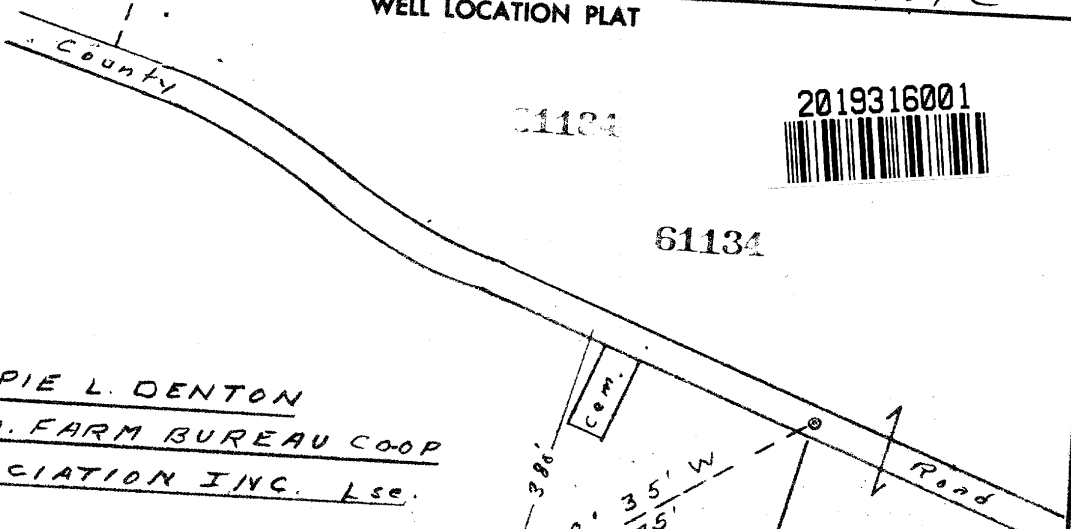
Kentucky Geological Survey



2019314806

WELL LOCATION PLAT

401 C



61134

2019316001



61134

HARPIE L. DENTON
IND. FARM BUREAU COOP
ASSOCIATION INC. Lse.

Proposed
Loc. No. 1

Hattie King

No. 1

Julius Denton

Loc.

CARTER COORDINATE

15-0-24 Scale 1" = 2000'

U.S.G.S. TOPO

1175

2250

Operator Ind. Farm Bureau Co-op Assoc., Inc.
 Farm Harpie L. Denton
 Well No. 1 Elevation 401 Gr.
 County Henderson Kentucky
 Date 8-27-58 Scale 1"=200'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961

Serial No. State Col. Hends. Sec. 15 T. Q R. 24 Pool Pool Coals
 Oper. Indiana Farm Bureau Elev. 405 DF. 401 Gr.
 Farm H. Denton No. 1 PD. 2498 PB. 2498

LOCATION		TOP	DRILLER OR SAMPLE
NT	Scout <u>13,550</u> <u>5</u> <u>16724</u> <u>Q</u>	Prov. Is.	\$ <u>2498</u>
	Farm	No. 11 Coal	
	L.&S. <u>14,300</u> <u>5</u> <u>1170</u> <u>W</u> <u>Q</u>	No. 9 Coal	
		Mansfield	
		Penn. Sd.	
		B. Penn.	
		Biehl	
		Up. Kincaid	
		Lo. Kincaid	<u>1431-58</u>
		Degonia	
		Clare	
		Palestine	<u>SO 1571-89</u>
		Up. Menard	
		Menard	<u>1678-</u>
		Lo. Menard	<u>1704-10</u>
		Waitburg	<u>SSO 1713-19</u>
		"	
		Vienna	<u>1777-83</u>
		T. S. (Jett)	
		"	
		Up. G. D.	
		Lo. G. D.	<u>1912-20</u>
		Hd. (Jones)	<u>NS 1927-46</u>
		"	<u>NS 1965-2014</u>
		Golconda	<u>2023-60</u>
		Jackson	<u>NS 2133-40</u>
		Barlow Is.	<u>2166-74</u>
		Cypress	<u>NS 2196-2223</u>
		"	
		Up. Pt. Creek	
		Pt. Creek Sd.	
		Lo. Pt. Creek	
		Beth-Ben	<u>SSO 2317-34</u>
		Up. Renault	<u>2357-</u>
		Renault	
		Aux Vases <u>Low</u>	<u>2457-</u>
		"	<u>SO 2484-98</u>
		St. Gen.	
		O'hara-Rosi	
		Fredonia	
		McClosky	
		"	
		"	
		St. Louis	
		Chatt	
		Dev. Is.	
		Silurian	
		Trenton	
		St. Peter	

Comm. 9-4-58 Comp. 2 OCT 58
 Remarks: FT.

CASING RECORD
 12" 10" 8" 5" 5"
 1" 1" 1" 1" 1"

SHOT-ACID RECORD 2498
 Date Qt.-Gal. From To

I. P. F. 100/24 thru 5" choke A.V.
 DATE DRILLING RECORD

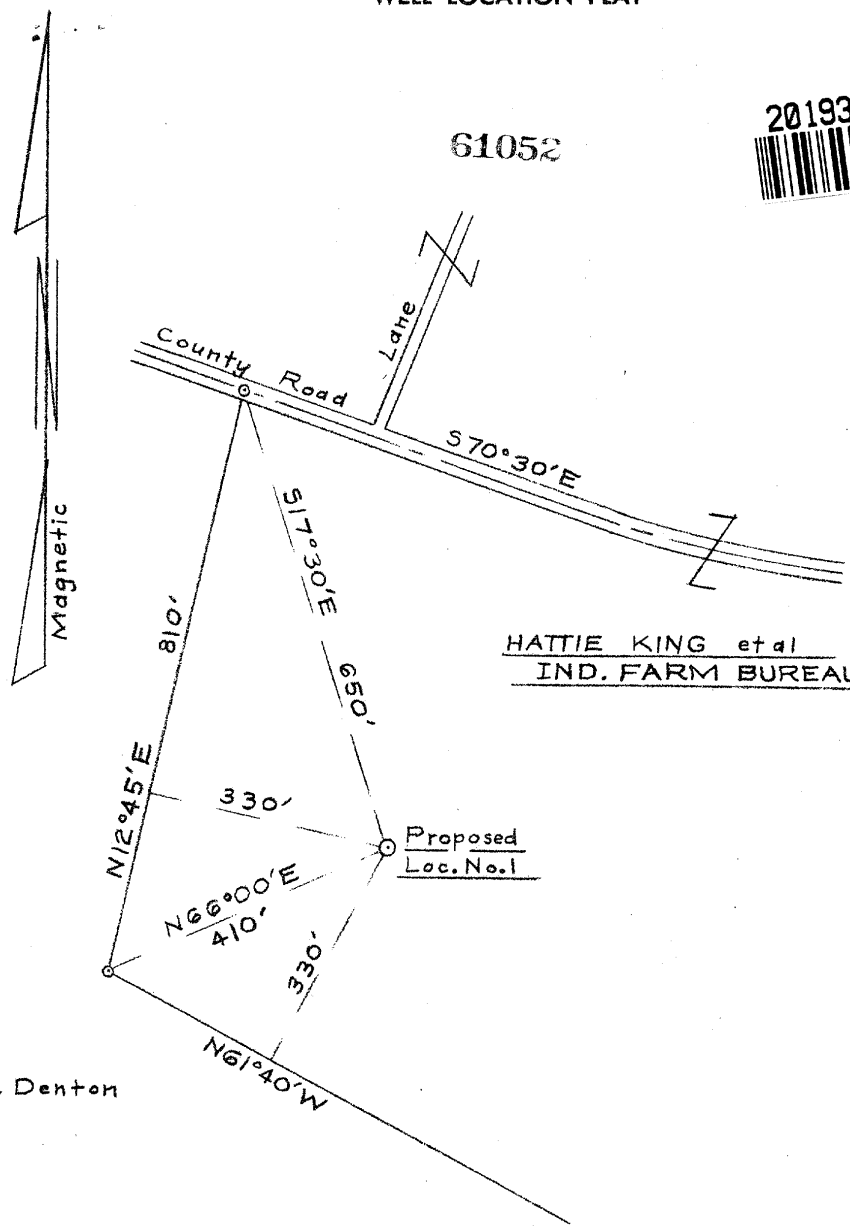
11 SEP 58 DST 1560-90 (Palm)
1 hr. 30' O
300' \$W

SDR 2091
WOC
MIST
COITD
DD 2502
tot 504W
PB 2498
perf 24/2486-92
perf 108/70 mm, hat



WELL LOCATION PLAT

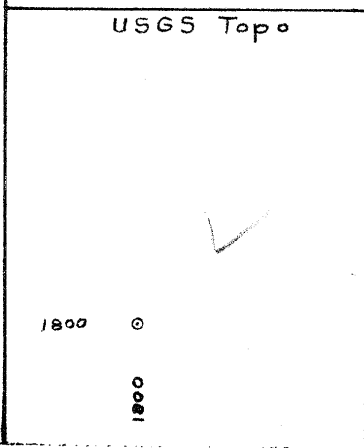
61052



HATTIE KING et al
IND. FARM BUREAU

J.E. Denton

CARTER COORDINATE
15-0-24 Scale 1" = 2000'



Operator Ind. Farm Bureau
 Farm Hattie King et al
 Well No. 1 Elevation 394 Gr.
 County Henderson Kentucky
 Date 8-5-58 Scale 1"=200'
 Engineer F. E. Moran
 Address F. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961

Serial No. _____
 State Co. Head. Sec. 15 T. O. R. 24 Pool Pool Conn.
 Oper. Andiana Farm Bureau Elev. 399 DF. 6.5 Gr. _____
 Farm Hatta King No. 1 TD. 2608 PB. 2492

LOCATION		TOP	DRILLER OR SAMPLE
Scout Farm L.&S.	330 S 330 W S	Prov. Is.	TELEC. 2608
Comm. 8-7-58	Comp. 18 SEP 58	No. 11 Coal	
Remarks: <u>27</u>		No. 9 Coal	
		Mansfield	
		Penn. Sd.	
		B. Penn.	
		Biehl	
		Up. Kincaid	
		Lo. Kincaid	
		Degonia	
		Clore	
		Palestine	
		Up. Menard	
		Menard	1620-66
		Lo. Menard	1692-98
		Walburg	1701-08
		"	
		Vienna	1764-69
		T. S. (Jett)	1850-65
		"	
		Up. G. D.	
		Lo. G. D.	1900-07
		Hd. (Jones)	1911-38
		"	NS 1949-2012
		Golconda	2020-69
		Jackson	
		Barlow Is.	2156-62
		Cypress	NS 2182-2206
		"	
		Up. Pt. Creek	
		Pt. Creek Sd.	
		Lo. Pt. Creek	
		Beth-Ben	NS 2299-2310
		Up. Renault	2339-
		Renault	
		Aux Vases	
		"	
		St. Gen.	2458-
		O'hara-Rosi	
		Fredonia	
		McClosky	SP 2467-92
		"	NS 2583-95
		"	
		St. Louis	
		Chatt	
		Dev. Is.	
		Silurian	
		Trenton	
		St. Peter	

2019319002



DATE	DRILLING RECORD
14 AUG 58	I. P. F. 100/24 on 3/8" choke 9.1 lb. 16.00 Prof. 0.4 ft. Mec
	of 22.00
	DST 2461-72.
	2 GTS in 2 min.
	1 lb. oil in 4 min.
	BHP 115
	φ 2472-84
	12' eat 1m
	WOC
	MIST
	CO 2492/
	prof 48/2474-84
	φ 60/1st hr.
	2474-84
	φ 100/24 on
	3/8" Th. 8' choke
	not.
	John Ernie for 2400
	well will 150PD

2019319003

DRILLER'S LOG

Hattie King No. 1
Henderson County, Ky.

Operator: Indiana Farm Bureau
Contractor: Slagter Producing Corp.
Location: Section 15-O-24
Total Depth: 2608'
Drilling Commenced: August 7, 1958
Drilling Completed: August 26, 1958

Casing: Surface: Set 30 ft. of 8 5/8"
with 27 sacks of cement
August 7, 1958

<u>FROM</u>	<u>TO</u>	<u>FORMATION</u>
0	30	Surface
30	55	Shale and shells
55	57	Lime
57	60	Coal
60	70	Shale
70	75	Lime
75	110	Shale and shells
110	248	Sand and shale
248	278	Shale
278	284	Lime
284	335	Sandy shale, sand
335	495	Shale and sandy shale
495	660	Sand and shale
660	825	Sand and shale
825	960	Sand and shale
960	1066	Sand and shale
1066	1216	Sand, shale and sand
1216	1276	Sand and shale
1276	1355	Sand and shale
1355	1423	Sand
1423	1434	Lime
1434	1444	Lime
1444	1474	Sand and shale
1474	1530	Shale and lime
1530	1584	Shale and lime
1584	1598	Sandy shale
1598	1621	Lime and shale
1621	1651	Lime
1651	1663	Lime
1663	1681	Lime and shale
1681	1696	Lime and shale
1696	1722	Sand and shale
1722	1729	Lime
1729	1759	Shale
1759	1767	Lime
1767	1768	Lime
1768	1718	Shale and shly sand
1718	1842	Sand and shale

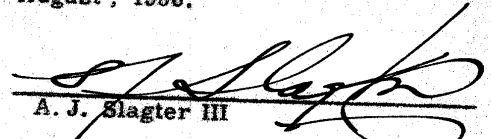
King - Driller's Log

<u>FROM</u>	<u>TO</u>	<u>FORMATION</u>
1842	1850	Lime
1850	1860	Sand
1860	1874	Shale and lime
1874	1890	Shale and sand
1890	1903	Lime
1903	1911	Lime and shale
1911	1931	Sand
1931	1935	Shaly sand
1935	1977	Shaly sand and shale
1977	2001	Sand and shale
2001	2023	Sandy lime
2023	2059	Sandy lime and shale
2059	2074	Lime and shale
2074	2105	Sand and shale
2105	2127	Lime
2127	2155	Shaly sand and lime
2155	2158	Lime
2158	2167	Lime and shale
2167	2185	Sand and shale
2185	2214	Sand and lime
2214	2220	Sand and lime
2220	2232	Sand and lime
2232	2257	Sandy lime and shale
2257	2283	Shale and sandy lime
2283	2304	Sandy lime and shale
2304	2330	Lime and shale
2330	2343	Lime
2343	2350	Lime
2350	2365	Lime
2365	2396	Lime and shale
2396	2417	Lime
2417	2431	Lime
2431	2461	Lime and shale
2461	2472	Lime
2501	2518	Lime
2518	2545	Lime
2545	2564	Lime and shale
2472	2486	Core No. 1
2486	2501	Lime
2564	2585	Lime
2585	2600	Lime
2600	2608	Lime
	2608	Total Depth

STATE OF INDIANA) SS:
 COUNTY OF VANDERBURGH)

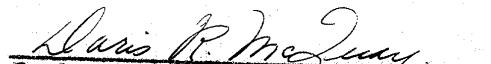
I, the undersigned, A. J. Slagter III, Vice-President of Slagter Producing Corp., do hereby certify that the above is a true and correct copy of the Driller's Log of formations for the Hattie King #1 well, Henderson County, Section 15 - 0 - 24.
 Witness my hand this 28th day of August, 1958.




 A. J. Slagter III

Subscribed and sworn to before me, a Notary Public in and for said County and State, this 28th day of August 1958.

DORIS R. McQUAY
 My commission expires July 18, 1962


 Doris R. McQuay, Notary Public



15-0-24

2019319005



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 478-W8

Oil or Gas Well Oil
(Kind)

Company Indiana Farm Bureau
 Address P. O. Box 271 Mt. Vernon, Ind.
 Farm Hattie King Acres 99.92
 Location (waters) Sec. 15-0-24
 Well No. 1 Elev. 399 DF
 District Henderson County Henderson
 Drilling Commenced August 7, 1958
 Drilling Completed August 26, 1958
 Name of Contractor Slaughter Drilling Co.
 Address of Contractor Evansville, Ind.
 Date Shot From To
 With
 Open flow /10ths Water in Inch
 /10ths Merc. in Inch

Casing and Used in Left In Tubing Drilling Well
 Size
 18 Kind of Packer
 13
 10 Size of
 8 1/4
 6 1/4 Depth Set
 5 3/16
 3 Perf. top
 Perf. bottom
 Liners Used
 Perf. top 2474
 Perf. bottom 2484

Casing Cemented Size No. Ft. Date
 Surface: 30' of 8 5/8" with 27 sacks
 Oil String: 2523' of 5 1/2" with 150 sacks

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
DRILLERS LOG ATTACHED							

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LEXINGTON, KENTUCKY

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks

2019319006


Date December 18, 19 58
 APPROVED *Allen Thompson* Owner
 By Indiana Farm Bureau Coop. Ass'n., Inc.
 (Title)

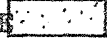
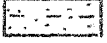
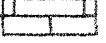


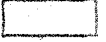

COMPANY INDIANA FARM BUREAU DATE CORED AUGUST 24, 1958 FILE NO. 58E8069
 WELL HATTLE KING LEASE NO. 1 DATE REPORT AUGUST 28, 1958 ENGRS. _____
 FIELD WILDCAT FORMATION O'HARA LIMESTONE ELEV. 399 D. T.
 COUNTY HENDERSON STATE KENTUCKY DRLG. FLUID FRESH WATER BASE CORES DIAMOND
 LOCATION _____ REMARKS _____

mead hole

R 2019319

3090
X-2941

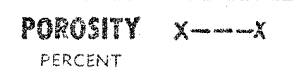
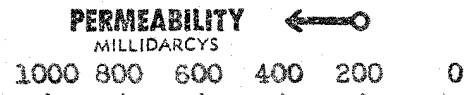
CORE ANALYSIS REPORT

SANDSTONE  SHALEY SANDSTONE  LIMESTONE  COLLITIC LIMESTONE 
 _____  _____  _____ 

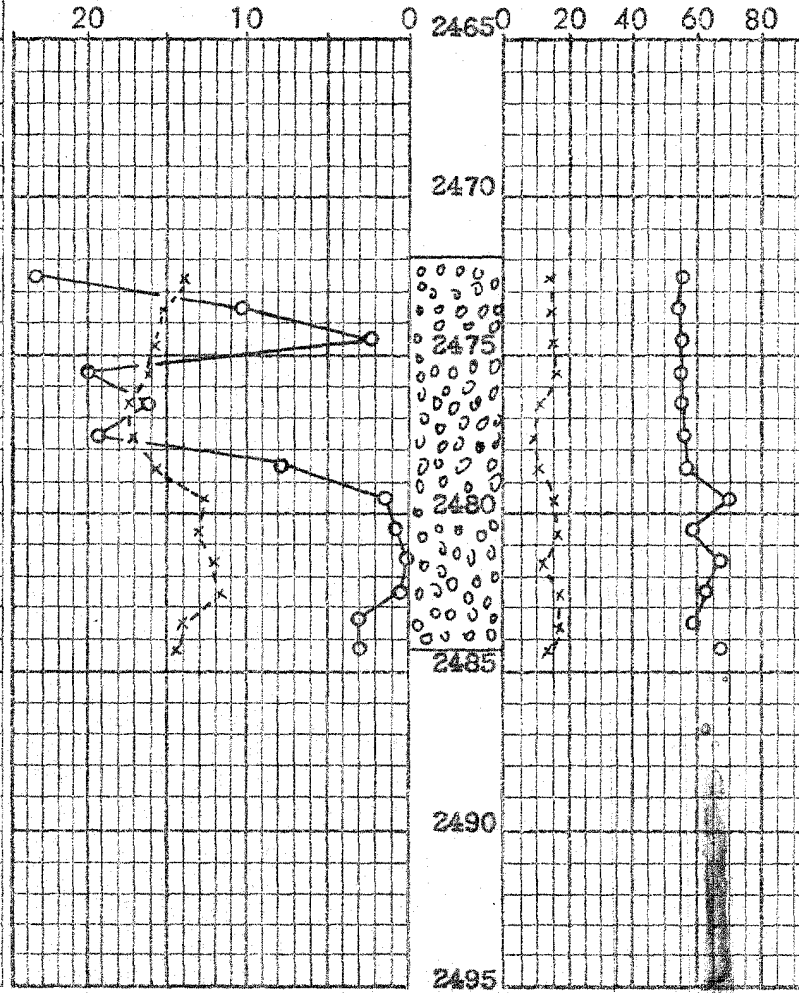
Kentucky Geological Survey



Interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use opinions or opinions expressed represent the best judgment of Oilfield Research (all errors and omissions excepted) but Oilfield Research assumes no responsibility and makes no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas, or other hydrocarbon production with which such report is used or relied upon.



SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY %	LIQUID SATURATION % PORE SPACE		REMARKS
				OIL	TOTAL WATER	
1	2472.5	938.	14.0	13.6	44.0	
2	2473.5	412.	15.3	14.3	46.2	
3	2474.5	91.	15.7	14.9	44.0	
4	2475.5	798.	16.2	15.5	44.9	
5	2476.5	651.	17.3	10.7	44.7	
6	2477.5	771.	17.1	9.1	43.9	
7	2478.5	310.	15.7	10.0	43.2	
8	2479.5	56.	12.8	15.1	30.2	
9	2480.5	33.	13.1	16.1	41.6	
10	2481.5	5.1	12.1	12.0	33.0	
11	2482.5	18.	11.8	17.0	37.5	
12	2483.5	122.	14.1	17.0	41.5	
13	2484.2	121.	14.4	13.1	32.8	



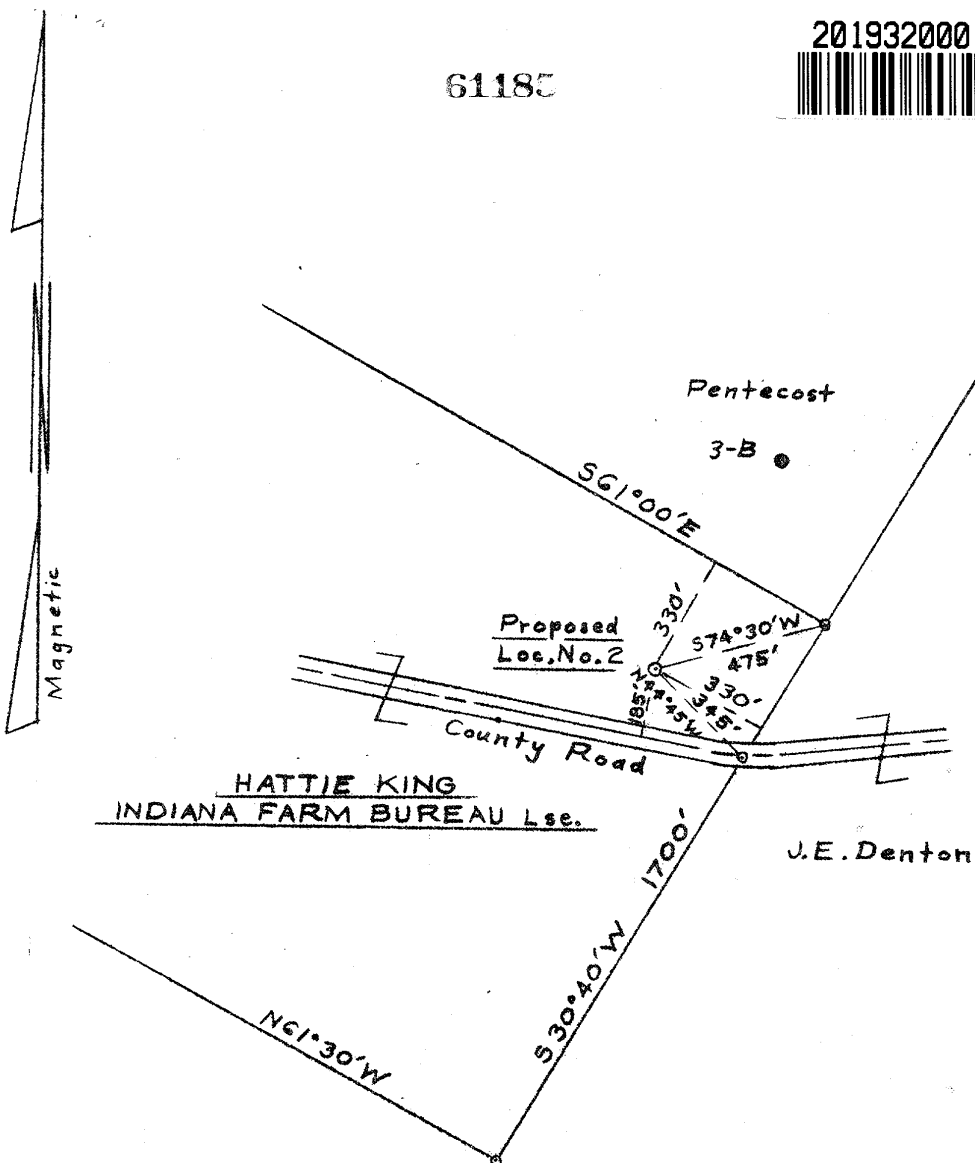
CORE SUMMARY

FORMATION	DEPTH, FEET	FEET CORE ANALYZED	AVERAGE PERMEABILITY MD	AVERAGE POROSITY %	AVERAGE LIQUID SATURATION, %	
					OIL	WATER
O'HARA	2472.0 - 2484.5	12.5	412.	14.6	13.7	40.9

WELL LOCATION PLAT

61185

2019320001



CARTER COORDINATE
15-0-24 Scale 1" = 2000'

USGS Topo



0 1550'

2050'

Operator Indiana Farm Bureau Cooperative Assoc.
 Farm Hattie King
 Well No. 2 Elevation 419 Gr.
 County Henderson Kentucky
 Date 11-7-58 Scale 1"=400'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961

2019320002



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 756-W8

Oil or Gas Well Oil
(Kind)

Company Indiana Farm Bureau
Address P. O. Box 271 Mt. Vernon, Ind.
Farm Hattie King Acres 99.92
Location (waters) Sec. 15-0-24
Well No. 2 Elev. 419 GR
District County Henderson
Drilling Commenced November 17, 1958
Drilling Completed November 19, 1958
Name of Contractor T. W. George
Address of Contractor Mt. Carmel, Illinois
Date Shot From To
With _____
Open flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Casing and Used in Left In Tubing Drilling Well
Size _____ Kind of Packer _____
16 _____
13 _____ Size of _____
10 _____
8 1/4 _____
6 3/4 _____ Depth Set _____
5 3/16 _____
3 _____ Perf. top. 2474
2 _____ Perf. bottom 2484
Liners Used _____
Perf. top. _____
Perf. bottom _____

Casing Cemented _____ Size _____ No. Ft. _____ Date _____
Surface: 50' of 10 3/4" with 50 sacks
Oil String: 2505' of 5 1/2" with 150 sacks

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Mud			0	20			
Sand			20	60			
Shale, Sand			60	105			
Shale, Sand, Shells			105	490			
Shale, Sand			490	920			
Sand, Shale			920	1155			
Sand, Shale			1155	1195			
Wt. Sand			1195	1235			
Shale, Sand			1235	1310			
Shale, Sand			1310	1427			
Lime			1427	1450			
Shale			1450	1480			
Shale, Lime			1480	1605			
Lime, Shale			1605	1620			
Lime			1620	1660			
Lime, Shale			1660	1725			
Shale			1725	1760			
Vienna Lime			1760	1764			
Shale, Sand			1764	1829			
Shale, Sand			1829	1890			
Lime			1890	1900			
Shale, Sand			1900	1906			
Shly Sand, Sand			1906	1954			
Shale			1954	1968			
Shale, Sand			1968	1979			
Shale, Sand			1979	2008			
Gol. Lime			2008	2026			
Lime, Shale			2026	2067			
Shale, Sand			2067	2105			
Hard Sand			2105	2153			
Barlow Lime			2153	2157			

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KENTUCKY

Over

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Shale			2157	2159			
Shale			2159	2168			
Hard Sand			2168	2183			
Sand			2183	2215			
Sdy. Lime, Shale			2215	2222			
Hard Sand, Shale			2222	2227			
Lime, Pt. Crk.			2227	2237			
Sdy. Lime and Shale			2237	2280			
Lime, Sand, Shale			2280	2324			
Lime, Shale			2324	2334			
Lime			2334	2366			
Lime			2366	2372			
Lime, Shale			2372	2407			
Lime			2407	2473			
Lime, Oil			2473	2492			
Lime T.D.			2492	2505			

2019320003



Date. December 18 19 58

APPROVED *Glenn Thompson* Owner

By Indiana Farm Bureau Coop. Ass'n., Inc.
(Title)

WELL LOCATION PLAT

401-F

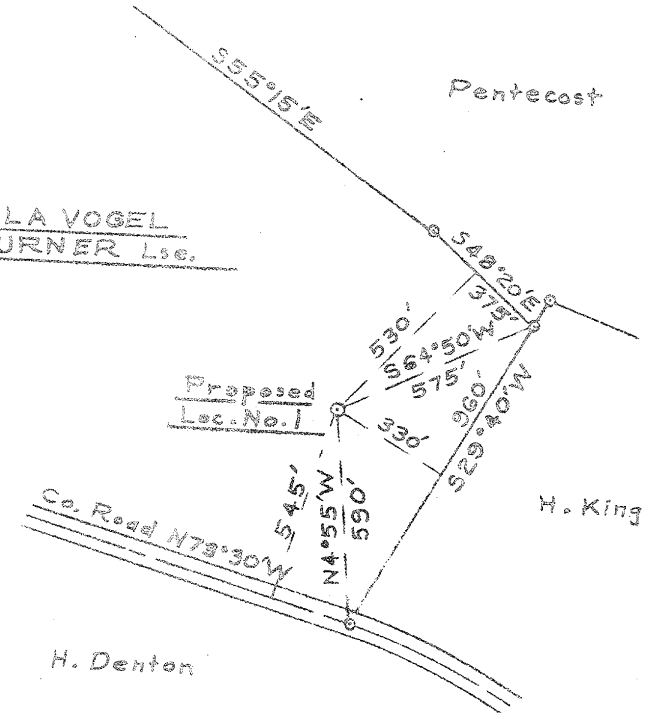
2019336001



62871



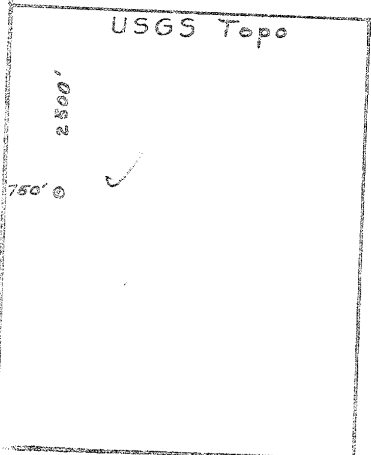
EULA VOGEL
J.D. TURNER Lsg.



CARTER COORDINATE

15-0-21 Scale 1" = 2000'

USGS Topo



Operator J. D. Turner
 Farm Eula Vogel
 Well No. 1 Elevation 420 Gr.
 County Henderson Kentucky
 Date 11-7-58 Scale 1"=400'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

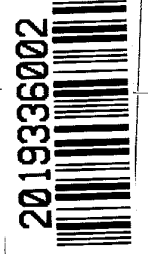
Registered Engineer No. 1961

Serial No. _____
 State Co. Hend. Sec. 15 T O R 24 Pool Poole Coma.
 Oper. J. D. Turner-Wasson Pt. Elev. DF. 422-Gr.
 Farm Eula Vogel Comm. No. 1 TD. 2535 PB. 2520

LOCATION		TOP	DRILLER OR SAMPLE
Scout Farm L&S.	2050 N 1250 W S	Prov. Is.	ELEC. 2535
Comm. 11-24-58	Comp. 11 DEC 58	No. 11 Coal	
Remarks: <u>FT.</u>		No. 9 Coal	
		Mansfield	
		Penn. Sd.	
		B. Penn.	
		Biehl	
		Up. Kincaid	
		Lo. Kincaid	
		Degonia	
		Clare	1560-77
		Palestine	1592-1600
		Up. Menard	
		Menard	
		Lo. Menard	1722-28
		Waltburg	1732-39
		"	
		Vienna	1793-1800
		T. S. (Jett)	1868-93
		"	
		Up. G. D.	
		Lo. G. D.	1919-52
		Hd. (Jones)	
		"	
		Golconda	2035-95
		Jackson	
		Barlow Is.	2180-89
		Cypress	2210-35
		"	
		Up. Pt. Creek	2261-78
		Pt. Creek Sd.	
		Lo. Pt. Creek	
		Beth-Ben	
		Up. Renault	2364-2404
		Renault	2410-68
		Aux Vases <u>Ben</u>	NS 2471-82
		" <u>Ben</u>	SD 2492-2520
		St. Gen.	2526-
		O'hara-Rosi	
		Fredonia	
		McClosky	
		"	
		"	
		St. Louis	
		Chatt	
		Dev. Is.	
		Silurian	
		Trenton	
		St. Peter	

12" 10" 8" 9" 5"
 44 2535
 SHOT-ACID RECORD
 Date Qt.-Gal. From To
 250 gal.
 300 gal.
 I. P. F. 50 / 24 water 96 ben.
 DATE DRILLING RECORD work
 26 NOV '58 1355 (OH)

no data
 WDC
 MIST
 CO 2520 /
 prof 60 / 2523-15
 MA.
 and
 flo. 60 / 1st hr.





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.



Permit No. 758-W8

Oil or Gas Well Oil
(Kind)

Company J. D. Turner
Address 311 Wright Bldg., Evansville, Ind.
Farm Vogel
Location (waters) 15-0-24 Acres.
Well No. #1 Elev. 422 DF
District Henderson County Henderson
Drilling Commenced November 24, 1958
Drilling Completed November 30, 1958
Name of Contractor Big Seven Drlg. Co.
Address of Contractor Evansville, Ind.
Date Shot 12/5 From 2500 To 2512
With 3,000 Gal. Acid
Open flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Casing and Used in Left In Tubing
Drilling Well

Size
16 _____ Kind of Packer
13 _____
10 3/4" - 44" _____ Size of
8 1/4 _____
6 5/8 _____ Depth Set
5 3/16 _____
3 _____ Perf. top
2 _____ Perf. bottom
Liners Used _____
Perf. top _____
Perf. bottom _____

Casing Cemented _____ Size 5 1/2 No. Ft. 2538 Date 11/30/58

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Surface			0	44			
Sand, shale and lime			44	275			
Shale and sand			275	700			
Sand, shaley lime and shaley sand			700	920			
Shale and sand			920	1140			
Shale, sand and shale			1140	1360			
Sand and shaley sand			1360	1490			
Shaley sand, shale and lime			1490	1633			
Menard Lime			1633	1696			
Shale and lime			1662	1722			
Little Menard			1722	1728			
Waltersburg			1731	1743			
Vienna			1794	1800			
Shale, shaley sand and sand			1800	1918			
Glen Dean lime			1918	1952			
Lime			1925	1949			
Shale and sand			1949	2035			
Lime and shale			2035	2145			
Shale and sand			2145	2180			
Lime			2180	2187			
Shale and sand			2187	2260			
Lime and shale			2260	2440			
Lime			2440	2535			
T. D.			2535				

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks

2019336004



Date December 30, 1958

APPROVED Reed D. Wiley Owner

By Geologist (Title)

2019336

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
DIVISION OF OIL AND GAS
P.O. Box 2244
FRANKFORT, KY 40601 PHONE (502) 573-0147



AFFIDAVIT TO TIME AND MANNER
OF PLUGGING AND FILLING WELL
AS REQUIRED BY LAW

(TYPE OR PRINT IN INK)

Turner, JD Grafe Bldg. Suite 3 1003 S St James Blvd. Evansville, Ind 47711
NAME AND ADDRESS OF LAST OPERATOR

NA
E-MAIL ADDRESS OF LAST OPERATOR

Kentucky Geological Survey

SAA
NAME AND ADDRESS OF ORIGINAL OPERATOR



NA
E-MAIL ADDRESS OF ORIGINAL OPERATOR

UNKNOWN
NAME AND ADDRESS OF COAL OPERATOR

NA
E-MAIL ADDRESS OF COAL OPERATOR

PERMIT NO. 75P-W8 ELEVATION 422' COUNTY Henderson TOTAL DEPTH 2535'

CARTER FNL FEL
COORDINATES 2534 FSL 727 FWL SEC 15 LETTER 0 NUMBER 24

FARM OWNER (LESSOR) Vogel-Cherry Hill Church WELL NUMBER 1

AFFIDAVIT TO BE MADE IN TRIPPLICATE, ONE COPY TO BE MAILED TO THE DEPARTMENT OF MINES AND MINERALS, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD TO BE MAILED BY REGISTERED MAIL TO EACH COAL OPERATOR NAMED AT THEIR RESPECTIVE ADDRESSES.

AFFIDAVIT

STATE OF KENTUCKY,
COUNTY OF see below } ss:

Indiana Petroleum + Roustabout Well Services, Plugger
OPERATOR OF THE ABOVE CAPTIONED WELL DOES
HEREBY SWEAR THAT THE PLUGGING OF SAID WELL WAS COMPLETED ACCORDING TO INSTRUCTIONS FROM THE OIL AND GAS INSPECTOR
AND ACCORDING TO CHAPTER 353 OF THE KENTUCKY REVISED STATUTES ON 12/17/09, RECORD OF WHICH IS LISTED
BELOW OR SHOWN ON THE BACK OF THIS FORM. (PLUGGED DATE)

			(PLUG DESCRIPTION)
PLUGGED: FROM	600'	TO 0'	WITH 210 sks Class "A" (inside + back side)
PLUGGED: FROM	2500'	TO 2220'	WITH 40 sks Class "A" cement
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH

* 5 1/2" CSG perforated @ 500' + 200'

INDICATE BELOW THE SIZE AND INTERVAL OF ALL CASING LEFT IN THE WELL AND IF AND WHERE IT WAS SHOT OFF:

CASING SIZE	10"	INTERVAL	0-44'	SHOT OFF AT	-	BOTTOM OF CASING AT	44'
CASING SIZE	5 1/2"	INTERVAL	0-2535'	SHOT OFF AT	3'	BOTTOM OF CASING AT	2535'
CASING SIZE		INTERVAL		SHOT OFF AT		BOTTOM OF CASING AT	

IF CASING WAS NOT LEFT IN THE WELL, INDICATE THE BORE HOLE SIZE AND INTERVAL:

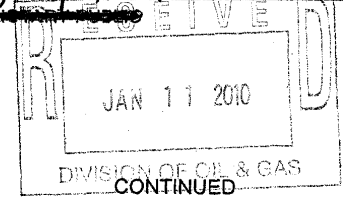
CASING SIZE		INTERVAL	
CASING SIZE		INTERVAL	

(OPTIONAL) SIGNATURE OF CONTRACTOR RESPONSIBLE FOR ABOVE PLUGGING
Rogee Water TITLE Supervisor

(REQUIRED) SIGNATURE OF OPERATOR RESPONSIBLE FOR ABOVE PLUGGING
TITLE

SWORN TO AND SUBSCRIBED BEFORE ME THIS 18 DAY OF December, 20 09

Joseph Miller, Inspector, Division of Oil & Gas

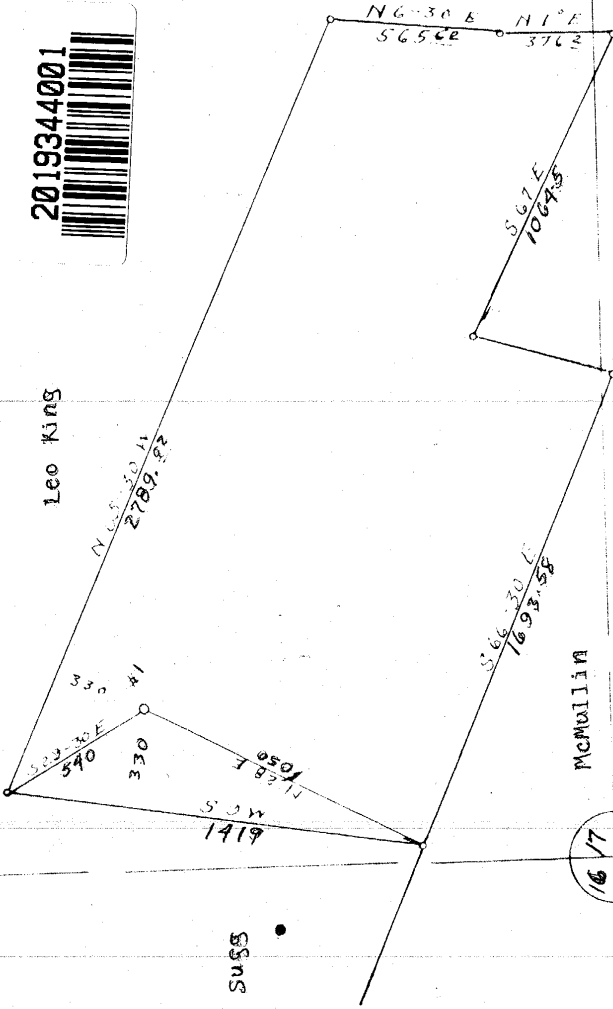


91327

2019344001



Leo King



McMullin

16 17
25 24

PLAT

showing location for an oil well in Section 17 - 0 - 24, Henderson County, Kentucky, made on the 21st day of January, 1925 by the undersigned, an act. Prof. an Inseer, Kentucky number 1704, and the plat above correctly represents the location of the well as I do verily believe.

W. A. Roberts

Princeton, Indiana.

SCALE

1 Inch equals 500 feet.

W. A. Roberts
Well # 1

Open: C. C. Beebe

17-0-24

Permit No. 6473-wA

Serial No. _____
 State Co. Howard, Sec. 17 T. O. R. 24 Pool Greenhorns N.
 Oper. C. C. Barber Elev. 600 400 DF. Gr. _____
 Farm W. A. Barber No. 1 TD 2042 PB.

LOCATION		TOP	DRILLER OR SAMPLE
Scout Farm	<u>400 S 1050 W</u>	Prov. Ls.	<u>2042</u>
L. & S.		No. 11 Coal	
		No. 9 Coal	
		Mansfield	
		Penn. Sd.	
		B. Penn.	
Comm. <u>1-25-55</u>	Comp. <u>2 4 FEB '55</u>	Up. Kincaid	
Remarks:		Lo. Kincaid	
		Degonia	
		Clare	
		Palestine	
		Up. Menard	
		Menard	
		Lo. Menard	<u>1660-64</u>
		Walt'burg	
		"	
		Vienna	<u>1731-35</u>
		T. S. (Jett)	
		"	
		Up. G. D.	
		Lo. G. D.	<u>1845-60</u>
		Hd. (Jones)	
		"	
		Golconda	
		Jackson	
		Barlow Ls.	<u>2111-15</u>
		Cypress	<u>2142-56</u>
		"	<u>2156-68</u>
		Up. Pt. Creek	
		Pt. Creek Sd.	<u>2042-57</u>
		Lo. Pt. Creek	
		Beth-Ben	<u>2086-73</u>
		Up. Renault	
		Renault	
		Aux Vases	
		"	
		St. Gen.	
		O'hara-Rosi	
		Fredonia	
		McClosky	
		"	
		"	
		St. Louis	
		Chatt	
		Dev. Is.	
		Silurian	
		Trenton	
		St. Peter	

2019344002



CASING RECORD

12"	10"	8"	7"	5"
	<u>41</u>		<u>222</u>	

SHOT-ACID RECORD

Date	Qt.-Gal.	From	To

I. P. 75/64 Both.

DRILLING RECORD

WIC

DST 2141-53

2 308' SW

BBB 506 #

DST 2079-95

2 6' SW

BBB 205 #

running pipe

COTD 8 ft. / hr.

multi phase 3000 gal.

COTD 48 hrs. / hr.

for 48 hrs. / hr.

2042



University of Kentucky
Kentucky Geological Survey

Oil Production Report | [About](https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm) (https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm)
Record Number: 25349

Oil and Gas Well Information:

Record Number: 25349

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/0/2/5/R00025349/R00025349.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=25349>)

Permit Number: 795W8

Well Number: 3

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.704437, -87.581443

KY Carter Coordinates: 15-O-24 1600S, 550W

Surface Elevation: 410 ft

Vertical Depth: 2533 ft

Measured (horizontal) Depth:

Operator: INDIANA FARM BUREAU COOP ASSN

Farm Name: DENTON, HARPIE

Completion Date: 12/8/1958

Total Depth Formation: Mississippian-McClosky Ls

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: Oil Production Report

(<https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?recNum=25349&prodType=oil>)

Gas Production Data: n/a

Pay Report: Pay Report

(<https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?id=25349>)

Formation Tops Data: n/a

OIL PRODUCTION DATA:

NOTE: At this time, the production data provided for individual wells is available from 1997 to 2017. Production data is held confidential for one full calendar year and is made public as soon as it is available after that date. The KY Division of Oil and Gas is the agency responsible for collecting this data and the most current production numbers are available are on their website <https://oilandgas.ky.gov/Pages/ProductionReports.aspx> (<https://oilandgas.ky.gov/Pages/ProductionReports.aspx>).

Download the **OIL** production data for this well into a text or Microsoft Excel file:

Select the type of file for download:

TAB DELIMITED TEXT FILE (.kgs extension*) ▼

* **.kgs files:** use in a text editor or spreadsheet as if a delimited ".txt" file

** **.xls files:** depending on browser configuration, file may automatically open inside browser window

DOWNLOAD | [More Info / KEY](#)

(<https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm>)

Production Plots (open in a new window):

- Oil Production Plot by Month
(https://kgs.uky.edu/kgsweb/datasearching/oilgas_dep/prodPlot.asp?recNum=25349&type=oil)

Year	Month	Oil Net: bbl / month	Oil: Status
1997	1	37	producing
1997	2	37	producing
1997	3	37	producing
1997	4	37	producing
1997	5	37	producing
1997	6	37	producing
1997	7	37	producing
1997	8	37	producing
1997	9	37	producing
1997	10	37	producing
1997	11	37	producing
1997	12	37	producing
1998	1	20	producing
1998	2	20	producing
1998	3	20	producing
1998	4	20	producing
1998	5	20	producing

1998	6	20	producing
1998	7	20	producing
1998	8	20	producing
1998	9	20	producing
1998	10	20	producing
1998	11	20	producing
1998	12	20	producing
1999	1	3	producing
1999	2	3	producing
1999	3	3	producing
1999	4	3	producing
1999	5	3	producing
1999	6	3	producing
1999	7	3	producing
1999	8	3	producing
1999	9	3	producing
1999	10	3	producing
1999	11	3	producing
1999	12	3	producing
2000	1	0	shut-in
2000	2	0	shut-in
2000	3	0	shut-in
2000	4	0	shut-in
2000	5	0	shut-in
2000	6	0	shut-in
2000	7	0	shut-in
2000	8	0	shut-in
2000	9	0	shut-in
2000	10	0	shut-in
2000	11	0	shut-in
2000	12	0	shut-in
2001	1	0	shut-in
2001	2	0	shut-in
2001	3	0	shut-in
2001	4	0	shut-in
2001	5	0	shut-in
2001	6	0	shut-in
2001	7	0	shut-in
2001	8	0	shut-in
2001	9	0	shut-in
2001	10	0	shut-in
2001	11	0	shut-in
2001	12	0	shut-in

2002	1	0	shut-in
2002	2	0	shut-in
2002	3	0	shut-in
2002	4	0	shut-in
2002	5	0	shut-in
2002	6	0	shut-in
2002	7	0	shut-in
2002	8	0	shut-in
2002	9	0	shut-in
2002	10	0	shut-in
2002	11	0	shut-in
2002	12	0	shut-in
2003	1	0	shut-in
2003	2	0	shut-in
2003	3	0	shut-in
2003	4	0	shut-in
2003	5	0	shut-in
2003	6	0	shut-in
2003	7	0	shut-in
2003	8	0	shut-in
2003	9	0	shut-in
2003	10	0	shut-in
2003	11	0	shut-in
2003	12	0	shut-in
2004	1	0	shut-in
2004	2	0	shut-in
2004	3	0	shut-in
2004	4	0	shut-in
2004	5	0	shut-in
2004	6	0	shut-in
2004	7	0	shut-in
2004	8	0	shut-in
2004	9	0	shut-in
2004	10	0	shut-in
2004	11	0	shut-in
2004	12	0	shut-in
2005	1	0	shut-in
2005	2	0	shut-in
2005	3	0	shut-in
2005	4	0	shut-in
2005	5	0	shut-in
2005	6	0	shut-in
2005	7	0	shut-in

2005	8	0	shut-in
2005	9	0	shut-in
2005	10	0	shut-in
2005	11	0	shut-in
2005	12	0	shut-in
2006	1	0	shut-in
2006	2	0	shut-in
2006	3	0	shut-in
2006	4	0	shut-in
2006	5	0	shut-in
2006	6	0	shut-in
2006	7	0	shut-in
2006	8	0	shut-in
2006	9	0	shut-in
2006	10	0	shut-in
2006	11	0	shut-in
2006	12	0	shut-in
2007	1	0	producing
2007	2	0	producing
2007	3	0	producing
2007	4	0	producing
2007	5	0	producing
2007	6	0	producing
2007	7	1	producing
2007	8	0	producing
2007	9	0	producing
2007	10	0	producing
2007	11	0	producing
2007	12	0	producing
2008	1	0	producing
2008	2	0	producing
2008	3	0	producing
2008	4	0	producing
2008	5	0	producing
2008	6	0	producing
2008	7	1	producing
2008	8	1	producing
2008	9	0	producing
2008	10	0	producing
2008	11	0	producing
2008	12	0	producing
2009	1	0	shut-in
2009	2	0	shut-in

2009	3	0	shut-in
2009	4	0	shut-in
2009	5	0	shut-in
2009	6	0	shut-in
2009	7	0	shut-in
2009	8	0	shut-in
2009	9	0	shut-in
2009	10	0	shut-in
2009	11	0	shut-in
2009	12	0	shut-in
2010	1	0	shut-in
2010	2	0	shut-in
2010	3	0	shut-in
2010	4	0	shut-in
2010	5	0	shut-in
2010	6	0	shut-in
2010	7	0	shut-in
2010	8	0	shut-in
2010	9	0	shut-in
2010	10	0	shut-in
2010	11	0	shut-in
2010	12	0	shut-in
2011	1	0	shut-in
2011	2	0	shut-in
2011	3	0	shut-in
2011	4	0	shut-in
2011	5	0	shut-in
2011	6	0	shut-in
2011	7	0	shut-in
2011	8	0	shut-in
2011	9	0	shut-in
2011	10	0	shut-in
2011	11	0	shut-in
2011	12	0	shut-in
2015	1	0	producing
2015	2	0	producing
2015	3	0	producing
2015	4	0	producing
2015	5	0	producing
2015	6	0	producing
2015	7	0	producing
2015	8	0	producing
2015	9	0	producing

2015	10	0	producing
2015	11	1	producing
2015	12	0	producing
2016	1	0	shut-in
2016	1	0	shut-in
2016	2	0	shut-in
2016	2	0	shut-in
2016	3	0	shut-in
2016	3	0	shut-in
2016	4	0	shut-in
2016	4	0	shut-in
2016	5	0	shut-in
2016	5	0	shut-in
2016	6	0	shut-in
2016	6	0	shut-in
2016	7	0	shut-in
2016	7	0	shut-in
2016	8	0	shut-in
2016	8	0	shut-in
2016	9	0	shut-in
2016	9	0	shut-in
2016	10	0	shut-in
2016	10	0	shut-in
2016	11	0	shut-in
2016	11	0	shut-in
2016	12	0	shut-in
2016	12	0	shut-in
2017	1	0	shut-in
2017	2	0	shut-in
2017	3	0	shut-in
2017	4	0	shut-in
2017	5	0	shut-in
2017	6	0	shut-in
2017	7	0	shut-in
2017	8	0	shut-in
2017	9	0	shut-in
2017	10	0	shut-in
2017	11	0	shut-in
2017	12	0	shut-in
2018	1	0	shut-in
2018	2	0	shut-in
2018	3	0	shut-in
2018	4	0	shut-in

2018	5	0	shut-in
2018	6	0	shut-in
2018	7	0	shut-in
2018	8	0	shut-in
2018	9	0	shut-in
2018	10	0	shut-in
2018	11	0	shut-in
2018	12	0	shut-in

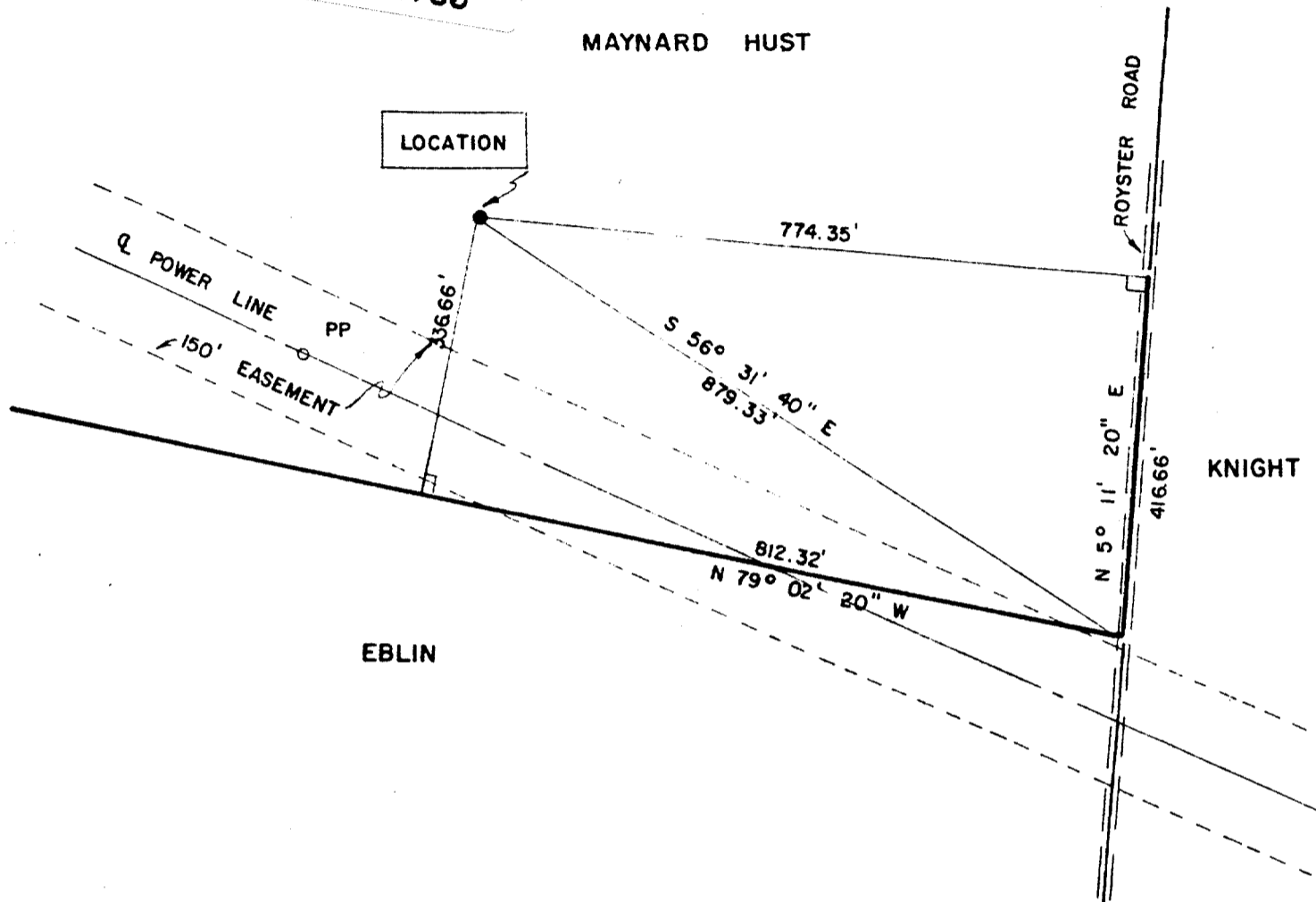
WELL LOCATION PLAT
ROSEWOOD WATERFLOOD INC. - MAYNARD HUST NO. 1

RECEIVED
APR 16 1981



DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

MAYNARD HUST



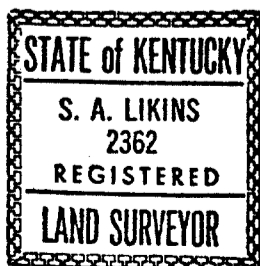
OPERATOR - - - - - Rosewood Waterflood Inc.
FARM - - - - - Maynard Hust
COUNTY - - - - - Henderson,
TOPO SHEET - - - - - Robards
DATE - - - - - 4/8/81
SCALE - - - - - 1" = 200'

CARRIER COORDINATES
1-N-23
1300 FEL, 1470 FNL
ELEVATION = 452 feet

I HEREBY CERTIFY that the above plat is accurate and correct to the best of my knowledge and belief.

Steve Likins
Steve Likins

PERMIT NO. 42705
LOCATION _____
ELEVATION _____
ADDED BY KENTUCKY SURVEY PERSONNEL

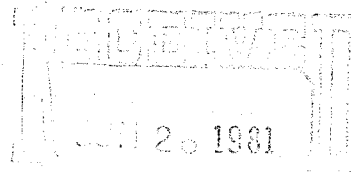


LIKINS & MUSGRAVE
ENGINEERS
416 SECOND STREET
OLDE TOWNE CENTER
HENDERSON, KENTUCKY



COMMONWEALTH OF KENTUCKY

DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586



DEPT. OF MINES & METALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>42705</u> Operator <u>Rosewood Waterflood Inc.</u> Farm Name <u>Maynard Hut</u> Well No. <u>1</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? _____ Oil <input type="checkbox"/> _____ Gas <input type="checkbox"/> _____ Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> _____ Gas Injection <input type="checkbox"/> _____ Gas Storage: Injection-Extraction <input type="checkbox"/> _____ Observation <input type="checkbox"/> _____																												
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>1 N 23</u> <small>(section) (letter) (number)</small> Footage from Section Lines: <u>1470</u> from N line <u>1300'</u> from E line <small>QUAD.</small>																												
ELEVATION <u>452</u> (ground) _____ (D.F.) _____ (K.B.)		INITIAL PRODUCTION Natural _____ Date _____ After Treatment _____ Date _____																												
TOTAL DEPTH Driller's Log <u>2725</u> Geophysical Log <u>2725</u>		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____ _____ _____																												
OPERATIONAL DATES Date Commenced <u>6-12-81</u> Date Drilling Completed <u>6-17-81</u> Date Plugged <u>6-17-81</u> Date Placed in Operation _____ <small>(if dry hole) (if producing, injection, etc.)</small> Date Shut-in _____ <small>(if shut-in producer or other temporarily suspended operation)</small>		WELL TREATMENT <small>(check applicable boxes)</small> <table border="1"> <thead> <tr> <th></th> <th>In Open Hole</th> <th>Thru Perforation</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>			In Open Hole	Thru Perforation	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>
	In Open Hole	Thru Perforation																												
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Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>																												
_____ lbs/sand _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>																												
DRILLING METHOD Cable _____ conventional-from <u>0</u> to <u>2725</u> Tools from _____ to _____ Rotary Tools air -from _____ to _____ <small>(Depths) (Depths)</small>		CASING AND CEMENT <table border="1"> <thead> <tr> <th>Casing Size</th> <th>Hole Size</th> <th>Depth</th> <th>Sks Cement</th> <th>Csg Pulled</th> </tr> </thead> <tbody> <tr> <td><u>8 5/8</u></td> <td><u>12"</u></td> <td><u>40'</u></td> <td><u>75</u></td> <td><u>No</u></td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled	<u>8 5/8</u>	<u>12"</u>	<u>40'</u>	<u>75</u>	<u>No</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled																										
<u>8 5/8</u>	<u>12"</u>	<u>40'</u>	<u>75</u>	<u>No</u>																										
_____	_____	_____	_____	_____																										
_____	_____	_____	_____	_____																										
_____	_____	_____	_____	_____																										
CONTRACTOR(S): <u>Indiana Drlg Co.</u> Address: <u>Evansville, Ind.</u>		TYPE(S) OF GEOPHYSICAL LOGS RUN: <small>(Electrical, Induction, sonic, gamma ray, neutron, density, etc.)</small> <u>Induction</u>																												

OCCURRENCE OF OIL AND GAS

Interval <small>(Depths Top, Base)</small>	Formation	Remarks <small>(Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)</small>
	<u>None</u>	



THE ABOVE INFORMATION IS COMPLETE AND CORRECT.

Date 6-24-81

Signed Thomas J. Puffer
Title Geologist

This form must be completed and filed for every permit. Re-Opened wells need not include a driller's log. However, the front side of the form must be completed.

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	25	soil			
	1600	sands shale			
	1765	lime shale			
	1832	shale			
	1836	lime, Vienna			
	1865	shale			
	1875	sand			
	1900	shale			
	1942	sand, shaly			
	1958	shale			
	1970	lime			
	2122	sand shale			
	2132	lime			
	2180	shale			
	2190	sand			
	2218	shale			
	2222	lime			
	2258	shale			
	2296	sand shale			
	2382	lime shale			
	2412	shale			
	2725	lime, Total Depth			



AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL
As Required by Law



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

Rosewood Waterflood Inc.
Name and address of Last Operator

Pt. 5 Box 609 Durham Spingate

Same
Name and address of original Operator who first permitted and drilled this well

None
Name and address of Coal Operator

Permit No. 42705, Elevation 452, County Henderson

Carter Coordinate Location 1470 NL x 1300 EL Sec. 1-N-23

Lease Name Maynard Husk Well No. 1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,
County of Daviess } ss:

of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on _____, 19____, record of which is listed below.

Plugged from	<u>580</u>	to	<u>515</u>	with	<u>20 sks cmt</u>
Plugged from	<u>330</u>	to	<u>265</u>	with	<u>20 sks cmt</u>
Plugged from	<u>230</u>	to	<u>165</u>	with	<u>20 sks cmt</u>
Plugged from	<u>45</u>	to	<u>3</u>	with	<u>15 sks cmt</u>
Plugged from		to	<u>Rat Hole</u>	with	<u>10 sks cmt</u>
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size _____, Shot off at _____ Bottom casing at _____
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe: _____



Signature of Contractor responsible for the above plugging, or _____

General Oil Well Cementing & Acid Co., Inc
Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 18 day of June

Wendell M. Hallam
Notary Public

My Commission expires: Feb 21 1984

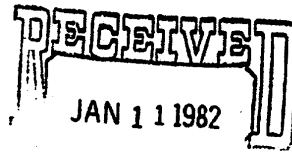
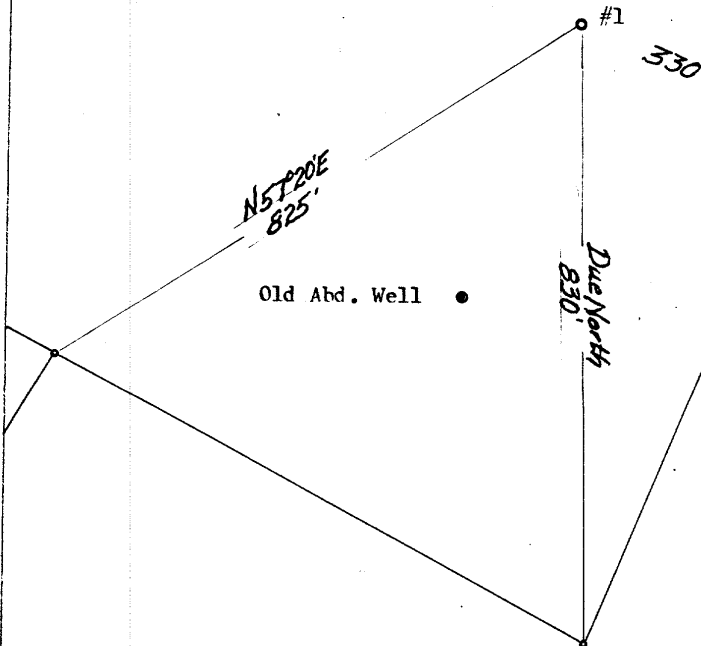
WELL LOCATION PLAT

46914



J. E. SUGG
244 Ac.

Robards

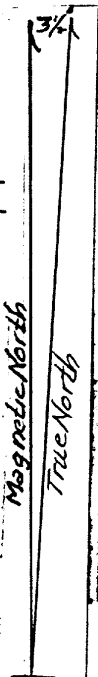


DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

Robards Quadrangle
920' FSL & 85' FFL Sec. 16-

CARTER COORDINATE 0-24

Farm 330/FEL Scale 1" = 2000'



Operator Hercules Petroleum Co., Inc.
Farm J. E. Sugg
Well No. One (1) Elevation 406.5' Gr.
County Henderson Kentucky
Date January 8, 1982 Scale 1"=200'

I, the undersigned, hereby certify this map is correct and shows to the best of my knowledge and belief all the information required by the Commonwealth of Kentucky.

STATE OF KENTUCKY
Registered Land Surveyor 1754 Registered Engineer 7756
REGISTERED
LAND SURVEYOR
PROFESSIONAL ENGINEER

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COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586



RECEIVED
JUN 10 1982
DEPT. OF MINES & MINERALS
LEXINGTON, KENTUCKY

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>46914</u> Operator <u>HERCULES PETROLEUM CO., INC.</u> Farm Name <u>J.E. Sugg</u> Well No. <u>One (1)</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? Oil <input type="checkbox"/> Gas <input type="checkbox"/> Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>	
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>16</u> <u>0</u> <u>24</u> Footage from Section Lines: <u>QUAD.</u> <u>920'</u> from <u>S</u> line <u>85'</u> from <u>E</u> line	
ELEVATION <u>406.5'</u> (D.F.) (K.B.) (ground)		INITIAL PRODUCTION <u>NONE</u> Natural _____ Date _____ After Treatment _____ Date _____	
TOTAL DEPTH Driller's Log <u>2326'</u> Geophysical Log _____		COMPLETION INTERVAL <u>NONE</u> Formation Name(s) _____ Interval(s) _____	
OPERATIONAL DATES Date Commenced <u>4-29-82</u> Date Drilling Completed <u>5-14-82</u> Date Plugged <u>5-17-82</u> Date Placed in Operation _____ (if dry hole) (if producing, injection, etc.)		WELL TREATMENT <u>NONE</u> (check applicable boxes) Shot _____ qts. _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> Shot _____ qts. _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> Acid _____ gals. _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> Acid _____ gals. _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> Fracture _____ gals. _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> _____ lbs/sand _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> Fracture _____ gals. _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/> _____ lbs/sand _____ Interval <input type="checkbox"/> In Open Hole <input type="checkbox"/> Thru Perforation <input type="checkbox"/>	
DRILLING METHOD Cable _____ Rotary conventional-from <u>0</u> to <u>TD</u> Tools from _____ to _____ Tools air _____ from _____ to _____ (Depths) (Depths)		TYPE(S) OF GEOPHYSICAL LOGS RUN: (Electrical, Induction, sonic, gamma ray, neutron, density, etc.) <u>✓ TRI-STATE GAMMA RAY-NEUTRON</u>	
CONTRACTOR(S): <u>GLENN DRILLING CO., INC.</u> Address: <u>2209 Calhoun Rd. Owensboro, KY 42301</u>		Casing Size <u>7"</u> Hole Size <u>8-3/4"</u> Depth <u>24'</u> Sks Cement <u>none</u> Csg Pulled <u>yes</u>	

OCCURRENCE OF OIL AND GAS

Interval (Depths-Top, Base)	Formation	Remarks (Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)
		<u>Dry & Abandoned</u>

THE ABOVE INFORMATION IS COMPLETE AND CORRECT.

Signed [Signature]
Title _____

Date _____

This form must be completed and filed for every permit. Re-Opened wells need not include a driller's log. However, the front side of the form must be completed.

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	112	SAND			
112	320	SHALEY LIME			
320	360	SANDY SHALE			
360	520	SHALE			
520	536	SHALEY SAND	1943	1968	SAND
536	780	SHALE	1968	1983	SHALE
780	796	SHALEY LIME	1983	2009	SANDY SHALE
796	1100	SHALE	2009	2043	SAND
1100	1108	SANDY SHALEY LIME	2043	2067	SANDY SHALEY LIME
1108	1118	LIME	2067	2115	SHALEY LIME
1118	1145	SHALEY SAND	2115	2145	SHALE
1145	1173	SHALE	2145	2168	SAND
1173	1186	SANDY SHALE	2168	2193	LIME
1186	1210	SHALE	2193	2222	SHALEY LIME
1210	1283	SHALEY LIME	2222	2260	SANDY SHALEY LIME
1283	1346	SHALE	2260	2278	LIME
1346	1403	SANDY SHALE	2278	2289	SHALEY LIME
1403	1420	SHALEY LIME	2289	2315	LIME
1420	1453	SANDY SHALE	2315	2326	SHALEY LIME
1453	1513	SHALE			
1513	1544	SANDY SHALEY LIME			
1544	1573	SANDY SHALE			
1573	1654	SHALE			
1654	1661	SANDY SHALE			
1661	1733	SHALEY LIME			
1733	1750	LIME			
1750	1763	SHALEY LIME			
1763	1793	SANDY SHALEY LIME			
1793	1846	SHALE			
1846	1843	SANDY SHALE			
1843	1915	SHALE			
1915	1927	SHALEY LIME			
1927	1943	LIME			



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AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL

As Required by Law

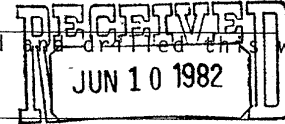


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division



HERCULES PETROLEUM CO., INC. 2209 Calhoun Road Owensboro, KY 42301
Name and address of Last Operator

Name and address of original Operator who first permitted to be drilled this well



Name and address of Coal Operator

Permit No. 46914, Elevation 406.5', County Henderson

DEPT. OF MINES & MINERALS
LEXINGTON, KENTUCKY

Quarter Coordinate Location 16-0-24 920'FSL X 85'FEL

Case Name J.E.SUGG Well No. #1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,)
County of Henderson) ss:

HERCULES PETROLEUM CO., INC., operator
above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on May 17, 1982, record of which is listed below.

Plugged from <u>2326'</u>	to <u>500'</u>	with <u>drillers mud</u>
Plugged from <u>500'</u>	to <u>435'</u>	with <u>15 sks cement</u>
Plugged from <u>435'</u>	to <u>300'</u>	with <u>drillers mud</u>
Plugged from <u>300'</u>	to <u>3'</u>	with <u>65 sks cement</u>
Plugged from _____	to <u>Rathole</u>	with <u>10 sks cement</u>
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size _____, Shot off at _____ Bottom casing at _____
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe: _____

[Signature] HERCULES PETROLEUM CEMENTERS
Signature of Contractor responsible for the above plugging, or

[Signature] HERCULES PETROLEUM CO., INC.
Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 17th day of May, 1982.

[Signature]
Notary Public State at Large

Commission expires: Sept. 26, 1982

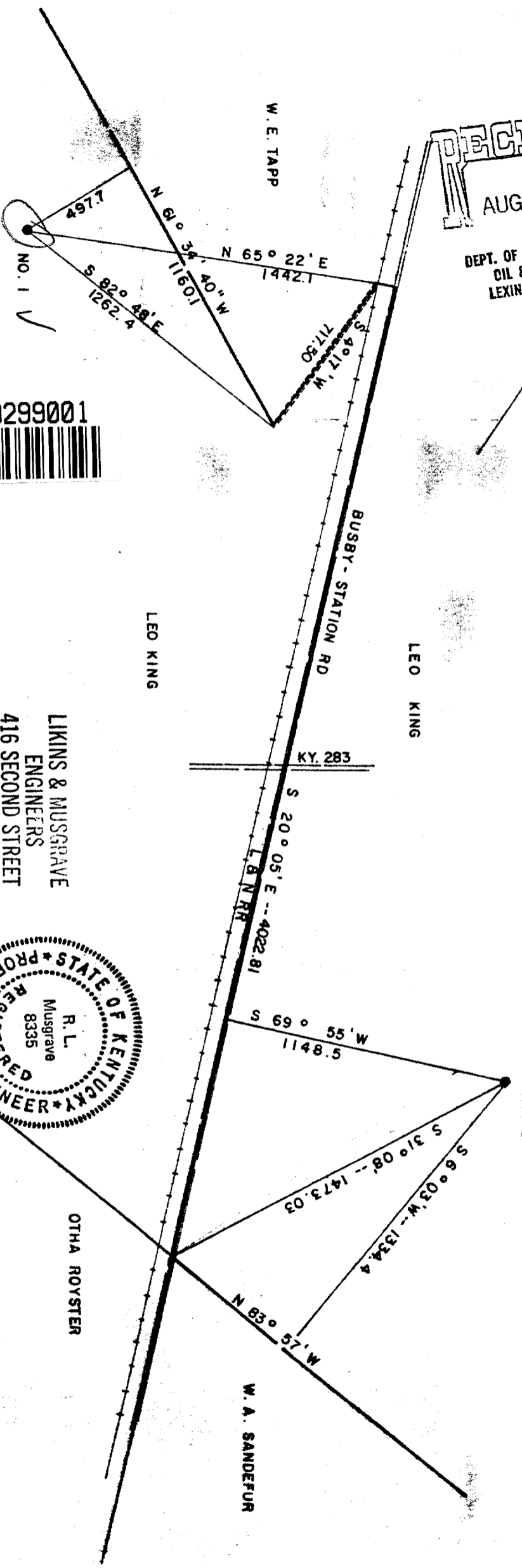
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 AUG 13 1980
 DEPT. OF MINES & MINERALS
 OIL & GAS DIVISION
 LEXINGTON, KENTUCKY

WELL LOCATION PLAT

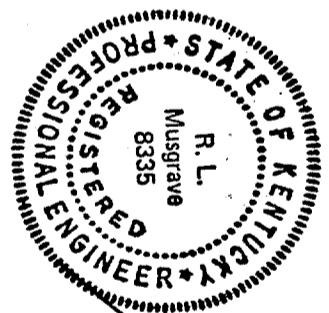
C. TURNER NO. 1 & NO. 2 LEO KING

NO. 2
 CARTER COORDINATE 23-0-24
 650 FWL, 630 FSL
 ELEVATION - 435 feet

PERMIT NO. 39201
 LOCATION _____
 ELEVATION _____
 ADDED BY KENTUCKY GEOLOGICAL SURVEY PERSONNEL



LIKINS & MUSGRAVE
 ENGINEERS
 416 SECOND STREET
 OLDE TOWNE CENTER
 HENDERSON, KENTUCKY

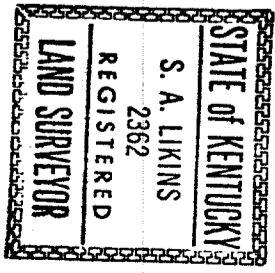


NO. 1
 CARTER COORDINATE 17-0-24
 1950 FWL, 2500 FSL
 ELEVATION - 413 feet

OPERATOR - C. TURNER
 FARM - LEO KING
 COUNTY - HENDERSON
 TOPO SHEET - ROBARDS
 SCALE - 1" = 500'
 DATE - 8/8/80

I HEREBY CERTIFY that the above plat is accurate and correct to the best of my knowledge and belief.

Steve Likins
 Steve Likins



RECEIVED
AUG 25 1980



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P. O. BOX 680
LEXINGTON, KY.

0010299002
[Barcode]

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Operator <u>C. L. Turner</u> Farm Name <u>Leo King</u> Well No. <u>No. 1</u>		Permit No. <u>39201</u>		TYPE OF COMPLETION (CHECK ONE) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? _____ Oil <input type="checkbox"/> _____ Gas <input type="checkbox"/> _____ Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>																																														
TYPE OPERATION (CHECK ONE) New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>17</u> <u>0</u> <u>24</u> <small>(SECTION) (LETTER) (NUMBER)</small> Footage from Section Lines: <u>2500</u> from N line <u>1950</u> from E line <small>S W</small>																																																
ELEVATION <u>413</u> (ground) <u>421</u> (D.F.) (K.B.)		INITIAL PRODUCTION Natural _____ Date _____ After Treatment _____ Date _____																																																
TOTAL DEPTH Driller's Log <u>2513</u> Geophysical Log <u>2513</u>		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____ _____ _____																																																
OPERATIONAL DATES Date Commenced <u>Aug 10, 1980</u> Date Drilling Completed <u>Aug 18, 1980</u> Date Plugged <u>Aug 18, 1980</u> Date Placed in Operation _____ <small>(IF DRY HOLE) (IF PRODUCING, INJECTION, ETC.)</small>		WELL TREATMENT (CHECK APPLICABLE BOXES): <table border="1"> <thead> <tr> <th></th> <th></th> <th></th> <th>IN OPEN HOLE</th> <th>THRU PERFORATION</th> </tr> </thead> <tbody> <tr> <td>Shot</td> <td>_____ qts.</td> <td>_____ interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot</td> <td>_____ qts.</td> <td>_____ interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid</td> <td>_____ gals.</td> <td>_____ interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid</td> <td>_____ gals.</td> <td>_____ interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture</td> <td>_____ gals.</td> <td>_____ interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture</td> <td>_____ gals.</td> <td>_____ interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>							IN OPEN HOLE	THRU PERFORATION	Shot	_____ qts.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>	Shot	_____ qts.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>	Acid	_____ gals.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>	Acid	_____ gals.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>	Fracture	_____ gals.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>			_____ lbs/sand			Fracture	_____ gals.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>			_____ lbs/sand		
			IN OPEN HOLE	THRU PERFORATION																																														
Shot	_____ qts.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>																																														
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Fracture	_____ gals.	_____ interval	<input type="checkbox"/>	<input type="checkbox"/>																																														
		_____ lbs/sand																																																
DRILLING METHOD Cable Tools from <u>0</u> to <u>0</u> (DEPTHS) Rotary Tools <u>conventional</u> from <u>0</u> to <u>2513</u> (DEPTHS) air - from _____ to _____ (DEPTHS)		CONTRACTOR(S): <u>Sun Exploration</u> Address: <u>603 Hulman Building</u> <u>Evansville, IN 47708</u>																																																
TYPE(S) OF GEOPHYSICAL LOGS RUN: (Electrical, induction, sonic, gamma ray, neutron, density, etc.) <u>Induction Elec Log</u>		CASING RECORD <table border="1"> <thead> <tr> <th>SIZE</th> <th>DEPTH</th> <th>SKS CEMENT</th> <th>CSG PULLED</th> </tr> </thead> <tbody> <tr> <td><u>8 5/8</u></td> <td><u>50</u></td> <td><u>w/60 sks</u></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				SIZE	DEPTH	SKS CEMENT	CSG PULLED	<u>8 5/8</u>	<u>50</u>	<u>w/60 sks</u>																																						
SIZE	DEPTH	SKS CEMENT	CSG PULLED																																															
<u>8 5/8</u>	<u>50</u>	<u>w/60 sks</u>																																																

OCCURRENCE OF OIL AND GAS

Interval (DEPTHS-TOP, BASE)	Formation	Remarks (SHOWS OF OIL AND/OR GAS, FILL-UP TESTS, DST'S, CORES, ETC.)
<u>None</u>		

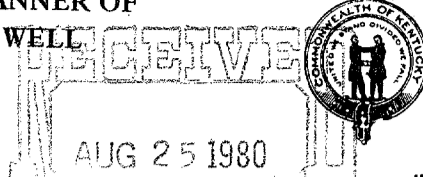
RECEIVED
SEP 23 1980

KENTUCKY GEOLOGICAL SURVEY

The above information is complete and correct.
Date 8-18-80

Signed Charles L. Turner
Title operator

AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL
As Required by Law



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division



CHARLES L. TURNER DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

Name and address of Last Operator _____

Name and address of original Operator who first permitted and drilled this well _____

Name and address of Coal Operator _____

Permit No. 39201, Elevation 413, County Henderson

Carter Coordinate Location 2500' FSL X 1950' FWL. 17-0-24

Lease Name Leo King Well No. #1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY, }
County of Henderson } ss:

_____, operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on _____, 19____, record of which is listed below.

Plugged from	<u>0</u>	to	<u>30</u>	with	<u>10 saks cement</u>
Plugged from	<u>30</u>	to	<u>160</u>	with	<u>mud</u>
Plugged from	<u>160</u>	to	<u>255</u>	with	<u>30 sacks</u>
Plugged from	<u>255</u>	to	<u>445</u>	with	<u>mud</u>
Plugged from	<u>445</u>	to	<u>510</u>	with	<u>20 sacks</u>
Plugged from	<u>510</u>	to	<u>2513</u>	with	<u>mud</u>
Plugged from	_____	to	_____	with	_____
Plugged from	_____	to	_____	with	_____

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size 8 5/8", Shot off at 3' B. G. Bottom casing at 60'
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe: _____
NONE

Signature of Contractor responsible for the above plugging, or _____

Charles L Turner
Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this _____ day of _____

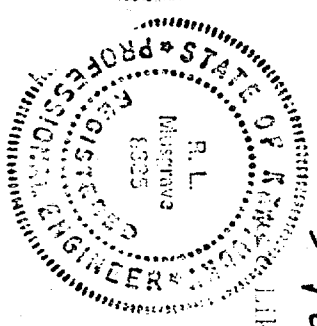
Notary Public

My Commission expires: _____

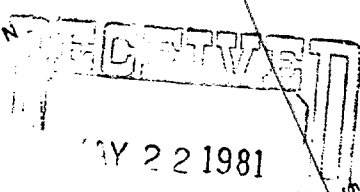
WELL LOCATION PLAN
LEO KING PERMIT NO. 4

LIKINS & MUSSGRAVE
ENGINEERS
416 SECOND STREET
OLDE TOWNE CENTER
HENDERSON, KENTUCKY

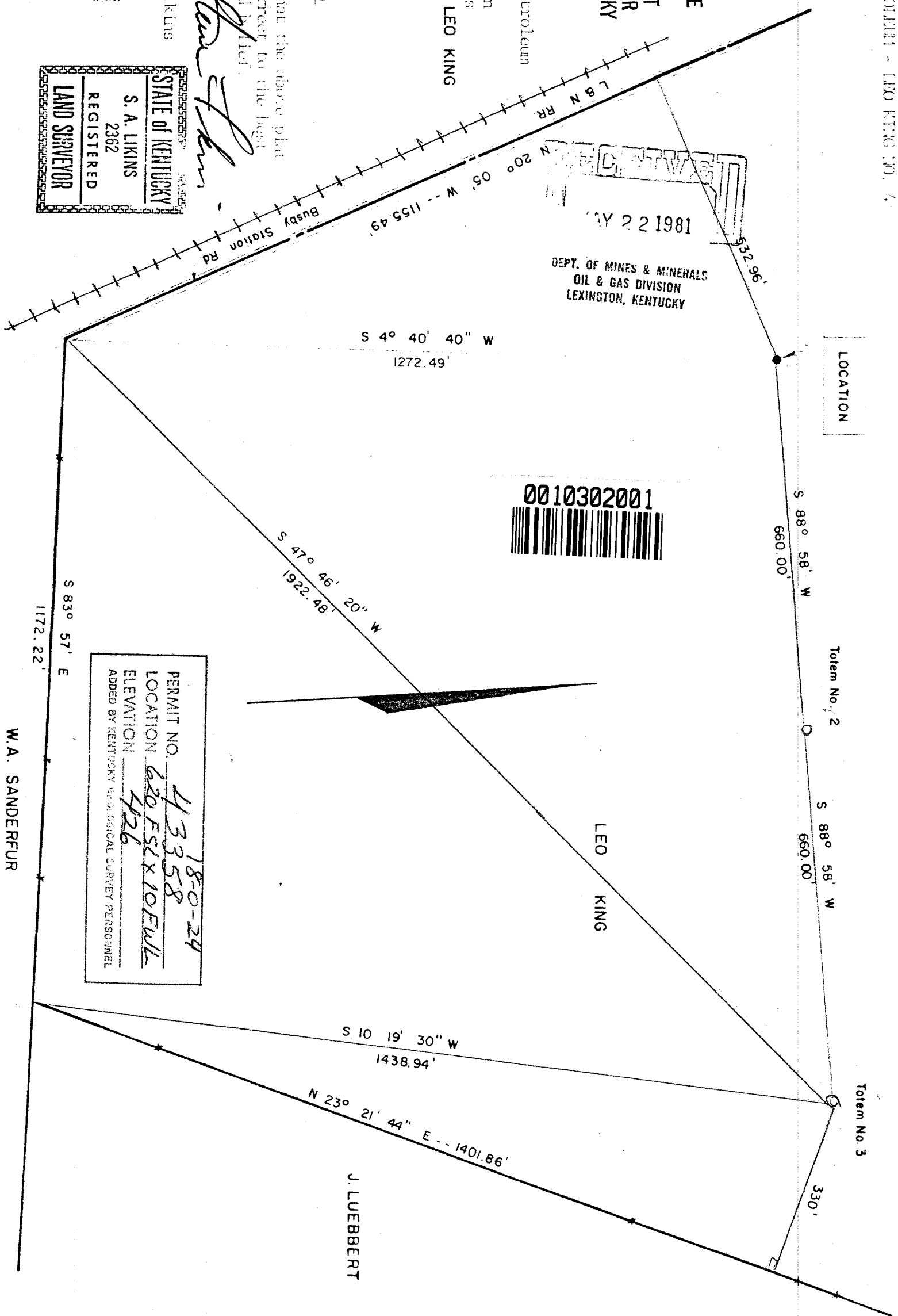
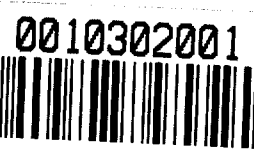
OPERATOR - Forum Petroleum
LEO KING
1155.49'



Leo King
STATE OF KENTUCKY
REGISTERED
LAND SURVEYOR
S. A. LIKINS
2362



DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY



PERMIT NO. 43358 18-0-24
LOCATION 620 FSLX10FWL
ELEVATION 426
ADDED BY KENTUCKY GEOLOGICAL SURVEY PERSONNEL

W.A. SANDERFUR



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586

microfilm

RECEIVED
APR 19 1982

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL LOG AND COMPLETION REPORT
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>43358</u> Operator <u>Totem Petroleum Corporation</u> Farm Name <u>Leo King</u> Well No. <u>#4</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? _____ Oil <input type="checkbox"/> _____ <u>d & a</u> Gas <input type="checkbox"/> _____ Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>																															
LOCATION County <u>Henderson</u> Carter Coordinates <u>18</u> <u>0</u> <u>18</u> <small>(section) (letter) (number)</small> Footage from Section Lines: <u>620'</u> from <u>S</u> line <u>10'</u> from <u>W</u> line <small>QUAD.</small>		SERVICE WELL: Saltwater Disposal <input type="checkbox"/> Water Supply <input type="checkbox"/> Observation Well <input type="checkbox"/> Other _____																															
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		INITIAL PRODUCTION Natural <u>none</u> Date _____ After Treatment _____ Date _____																															
ELEVATION <u>426</u> (ground) <u>430</u> (D.F.) (K.B.)		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____ _____ _____																															
TOTAL DEPTH Driller's Log <u>2500'</u> Geophysical Log <u>2498</u>		WELL TREATMENT (check applicable boxes) <table border="1"> <thead> <tr> <th></th> <th>In Open Hole</th> <th>Thru Perforation</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>			In Open Hole	Thru Perforation	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand			Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand					
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OPERATIONAL DATES Date Commenced <u>5/18/81</u> Date Drilling Completed <u>5/25/81</u> Date Plugged <u>5/29/81</u> Date Placed in Operation _____ <small>(if dry hole) (if producing, injection, etc.)</small> Date Shut-in _____ <small>(if shut-in producer or other temporarily suspended operation)</small>		CASING LOG <table border="1"> <thead> <tr> <th>Casing Size</th> <th>Hole Size</th> <th>Depth</th> <th>Sks Cement</th> <th>Csg Pulled</th> </tr> </thead> <tbody> <tr> <td><u>8 5/8"</u></td> <td></td> <td><u>41</u></td> <td><u>225</u></td> <td><u>--</u></td> </tr> <tr> <td>_____</td> <td></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td></td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled	<u>8 5/8"</u>		<u>41</u>	<u>225</u>	<u>--</u>	_____		_____	_____	_____	_____		_____	_____	_____	_____		_____	_____	_____	_____		_____	_____	_____
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_____		_____	_____	_____																													
_____		_____	_____	_____																													
_____		_____	_____	_____																													
DRILLING METHOD Cable _____ conventional-from _____ to _____ Tools from _____ to _____ <small>(Depths)</small> Rotary Tools <small>air</small> -from <u>0</u> to <u>TD</u> <small>(Depths)</small>		CONTRACTOR(S): <u>Sun Exploration Company</u> Address: <u>Hulman Building</u> <u>Evansville, IN</u>																															
TYPE(S) OF GEOPHYSICAL LOGS RUN: <small>(Electrical, Induction, sonic, gamma ray, neutron, density, etc.)</small> <u>induction & density</u>		OCURRENCE OF OIL AND GAS <table border="1"> <thead> <tr> <th>Interval (Depths-Top, Base)</th> <th>Formation</th> <th>Remarks (Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td><u>no tests</u></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Interval (Depths-Top, Base)	Formation	Remarks (Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)			<u>no tests</u>																								
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		<u>no tests</u>																															

THE ABOVE INFORMATION IS COMPLETE AND CORRECT.


Signed _____

Date April 15, 1982

Title Pres.

This form must be completed and filed for every permit. Re-Opened wells need not include a driller's log. However, the front side of the form must be completed.

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
		(For more detailed and additional information, please refer to geological log attached)			
0	1700	alternating sandstone, limestone, & shale			
1700	2205	alternating sandstone and shale			
2205	2500	massive xyn limestone and streak of oolitic limestone			
	2500	total depth			
		<p>0010302003</p> 			

AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL

As Required by Law



Memo

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS

P. O. Box 680

LEXINGTON, KENTUCKY

Oil and Gas Division

APR 19 1982

P.O. Box 1268

HENDERSON, KY.

TOTEM Petroleum Corp.
Name and address of Last Operator

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

Name and address of original Operator who first permitted and drilled this well

Leadbey Coal Co.
Name and address of Coal Operator

Permit No. 43358, Elevation 426', County HENDERSON

Carter Coordinate Location 18-0-24

Lease Name Leo King #4 Well No. 4

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,
County of HENDERSON } ss:

TOTEM PETROLEUM CORP., operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on May 29, 19 81, record of which is listed below.

Plugged from	<u>500</u>	to	<u>400</u>	with	<u>30 SKS</u>
Plugged from	<u>250</u>	to	<u>150</u>	with	<u>20 SKS</u>
Plugged from	<u>30</u>	to	<u>3</u>	with	<u>10 SKS</u>
Plugged from		to	<u>Plat Hole</u>	with	<u>10 SKS</u>
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size _____, Shot off at _____ Bottom casing at _____
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe: _____

Signature of Contractor responsible for the above plugging, or _____

Amal Oil Well Cementing & Acid Co, Inc
Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 29 day of May

Wendell M. Hallam
Notary Public

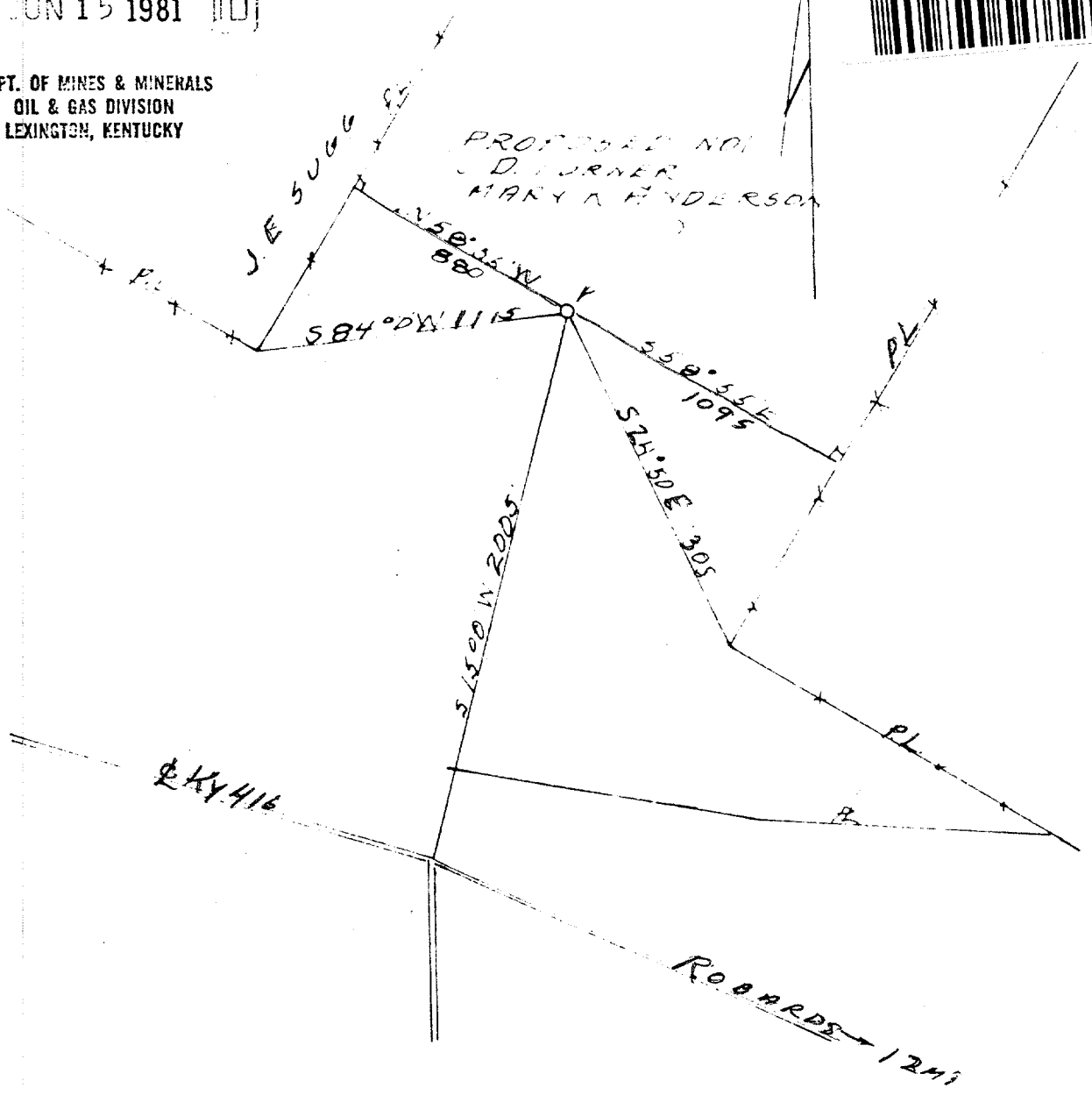
My Commission expires: Feb. 26-1984

RECEIVED
JUN 15 1981

WELL LOCATION PLAT
C. P. SCHELLER ENGINEERING

0010315001

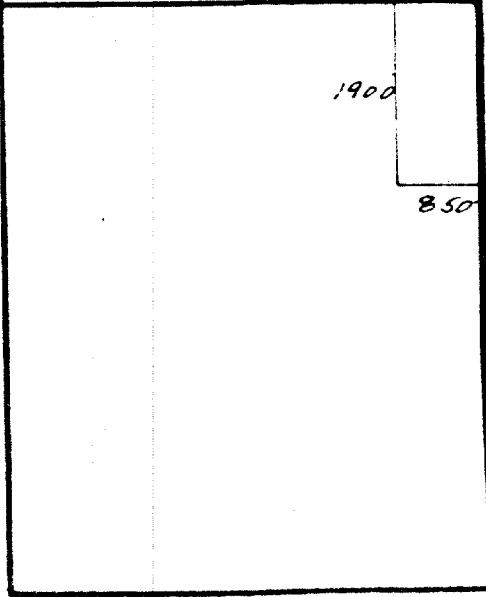

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY



1900 FNL.
850 FEL.

ROBARDS TOPO
CARTER COORDINATE
25-0-24 SCALE 1" = 2000'

PERMIT NO. 43657
LOCATION _____
ELEVATION _____
ADDED BY KENTUCKY GEOLOGICAL SURVEY PERSONNEL



OPERATOR J. D. TURNER
FARM MARY K ANDERSON
WELL NO. 1 ELEVATION 431.7 6rd TRAD
COUNTY HENDERSON STATE OF KENTUCKY
DATE 6/6/81 SCALE 1" = 600'
ENGINEER Charles P. Scheller
ADDRESS 940 Merritt Drive, Henderson, KY 42420



I HEREBY CERTIFY THAT THE ABOVE PLAT
IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

Charles P. Scheller
REGISTERED ENGINEER NO. 4455



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586

RECEIVED
AUG 17 1981
DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>43657</u> Operator <u>J. D. Turner</u> Farm Name <u>Mary Anderson</u> Well No. <u>One (1)</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? _____ Oil <input type="checkbox"/> _____ Gas <input type="checkbox"/> _____ Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> _____ Gas Injection <input type="checkbox"/> _____ Gas Storage: Injection-Extraction <input type="checkbox"/> _____ Observation <input type="checkbox"/> _____																																				
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>25-0-24</u> <small>(section) (letter) (number)</small> Footage from Section Lines: <u>1900</u> from N line <u>850</u> from E line <small>S W</small>																																				
ELEVATION <u>431.7</u> (ground) _____ (D.F.) (K.B.)		INITIAL PRODUCTION Natural _____ Date _____ After Treatment _____ Date _____																																				
TOTAL DEPTH <u>2632'</u> Driller's Log _____ Geophysical Log _____		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____ _____ _____																																				
OPERATIONAL DATES Date Commenced <u>July 8, 1981</u> Date Drilling Completed <u>July 14, 1981</u> Date Plugged <u>July 14, 1981</u> Date Placed in Operation _____ <small>(if dry hole) (if producing, injection, etc.)</small> Date Shut-in _____ <small>(if shut-in producer or other temporarily suspended operation)</small>		WELL TREATMENT <small>(check applicable boxes)</small> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">In Open Hole</th> <th style="text-align: center;">Thru Perforation</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>			In Open Hole	Thru Perforation	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand			Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand										
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CONTRACTOR(S): <u>Big Seven Drilling Co., Inc.</u> <u>400 Citizens Bldg., 115 S. E.</u> Address: <u>Third Street, Evansville, IN</u> <u>47708</u>		TYPE(S) OF GEOPHYSICAL LOGS RUN: <small>(Electrical, Induction, sonic, gamma ray, neutron, density, etc.)</small> <u>Induction</u>																																				

OCCURRENCE OF OIL AND GAS

Interval <small>(Depths Top, Base)</small>	Formation	Remarks <small>(Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)</small>
NONE		

THE ABOVE INFORMATION IS COMPLETE AND CORRECT.

Date 8-10-81

Signed Burtis H. [Signature]
 Title Off. Mgr

This form must be completed and filed for every permit. Re-Opened wells need not include a driller's log. However, the front side of the form must be completed.

FORMATION RECORD



From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	(describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	37	Clay, etc.			
37	495	Sand and shale			
495	880	Shale and sand			
880	1664	Sand and shale			
1664	1860	Lime and shale			
1860	1903	Sand and shale			
1903	1918	Lime			
1918	1984	Lime and shale			
1984	2029	Sand and shale			
2029	2130	Lime and shale			
2130	2165	Shale			
2165	2236	Sand and shale			
2236	2245	Sand and shale			
2245	2257	Shale and lime			
2257	2336	Shale and sand			
2336	2420	Lime and shale			
2420	2632	Lime			
2632		Total Depth			

AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING

As Required by Law

0010315004



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS

P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

AUG 17 1981

Name and address of Last Operator J. D. Turner, 400 Citizens Bldg, 115 S. E. 3rd St., Evansville, IN 47708

same

Name and address of original Operator who first permitted and drilled this well

Peabody Coal Company, P. O. Box 1981, Henderson, KY 42420

Name and address of Coal Operator

Permit No. 43657, Elevation 431.7 Gr, County Henderson

Carter Coordinate Location 1900' FNL 850' FEL 250-24

Lease Name Mary Anderson Well No. One (1)

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF ~~KENTUCKY~~, INDIANA } ss:
County of Vanderburgh

J. D. Turner, operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on July 14, 1981, record of which is listed below.

Plugged from	<u>2632</u>	to	<u>2532</u>	with	<u>30 Sks Cement</u>
Plugged from	<u>2532</u>	to	<u>660</u>	with	<u>Mud</u>
Plugged from	<u>660</u>	to	<u>595</u>	with	<u>20 Sks Cement</u>
Plugged from	<u>595</u>	to	<u>370</u>	with	<u>Mud</u>
Plugged from	<u>370</u>	to	<u>305</u>	with	<u>20 Sks Cement 40-3 15 Sks Cement</u>
Plugged from	<u>305</u>	to	<u>280</u>	with	<u>Mud Rat Hole</u>
Plugged from	<u>280</u>	to	<u>215</u>	with	<u>15 Sks Cement 10 Sks Cement</u>
Plugged from	<u>215</u>	to	<u>40</u>	with	<u>Mud</u>

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size _____, Shot off at _____ Bottom casing at _____
Size _____, Shot off at _____ Bottom casing at _____

8 5/8" surface casing set @ 37/45Sks

State whether or not other steel or junk was left in well and describe: _____

Signature of Contractor responsible for the above plugging, or

J. D. Turner
Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 10th day of August, 1981

Burtis W. Cloud
Burtis W. Cloud Notary Public Resident of
Vanderburgh County, Indiana

June 30, 1984

My Commission expires: _____

WELL LOCATION PLAT

C. P. SCHELLER ENGINEERING

LEROY POOLE.

N.

N44°45'E. 1500' TO HOUSE MONUMENT

N48°55'E. 2430' TO ROAD INTERSECTION MONUMENT.

S. 8° 20' W.

330'

990'

PROPOSED NO. 1 MAYNARD HUST.

~~VICTOR R. GALLAGHER~~

MAYNARD HUST.

RECEIVED
AUG 11 1983

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

S. 83° 20' E P.L.

LOIS SCOTT

1100 F.S.L
2550 F.W.L.

PERMIT NO.	5722
LOCATION	
E. STATION	
ADDED BY FIELD ENGINEER	
DATE	

ROBARDS TOPO.
CARTER COORDINATE
21-0-23 SCALE 1" = 2000'



2550'
1100'

OPERATOR VICTOR R. GALLAGHER

FARM MAYNARD HUST.

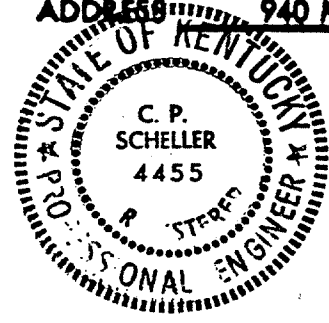
WELL NO. 1 ELEVATION 454.4 GRD. TRAN.

COUNTY HENDERSON STATE OF KENTUCKY

DATE 8/3/83 SCALE 1" = 300

ENGINEER Charles P. Scheller

ADDRESS 940 Merritt Drive, Henderson, KY 42420



I HEREBY CERTIFY THAT THE ABOVE PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Charles P. Scheller
REGISTERED ENGINEER NO. 4455

File



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586

RECEIVED
AUG 25 1983
DEPT. OF MINES & MINERALS
LEXINGTON, KENTUCKY

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>57252</u> Operator <u>Victor R. Gallagher</u> Farm Name <u>Maynard Hust</u> Well No. <u>1</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? Oil <input type="checkbox"/> Gas <input type="checkbox"/> Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>																												
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>21</u> <u>0</u> <u>23</u> <small>(section) (letter) (number)</small> Footage from Section Lines: <u>1100'</u> from <u>XX</u> line <u>2550'</u> from <u>X</u> line <small>S W</small>																												
ELEVATION <u>454'</u> (ground) <u>457</u> (D.F.) <u>458</u> (K.B.)		SERVICE WELL: Saltwater Disposal <input type="checkbox"/> Water Supply <input type="checkbox"/> Observation Well <input type="checkbox"/> Other _____																												
TOTAL DEPTH Driller's Log <u>2721</u> Geophysical Log <u>2721</u>		INITIAL PRODUCTION Natural _____ Date _____ After Treatment _____ Date _____																												
OPERATIONAL DATES Date Commenced <u>8/17/83</u> Date Drilling Completed <u>8/23/83</u> Date Plugged <u>8/23/83</u> Date Placed in Operation _____ <small>(if dry hole) (if producing, injection, etc.)</small> Date Shut-in _____ <small>(if shut-in producer or other temporarily suspended operation)</small>		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____																												
DRILLING METHOD Cable _____ to _____ Rotary conventional-from <u>0</u> to <u>2721</u> Tools from _____ to _____ Tools air _____ from _____ to _____ <small>(Depths) (Depths)</small>		WELL TREATMENT <small>(check applicable boxes)</small> <table border="1"> <thead> <tr> <th></th> <th>In Open Hole</th> <th>Thru Perforation</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>			In Open Hole	Thru Perforation	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand			Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand		
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CONTRACTOR(S): <u>Gallagher Drilling, Inc.</u> Address: <u>P. O. Box 3046</u> <u>Evansville, Indiana 47730</u>		<table border="1"> <thead> <tr> <th>Casing Size</th> <th>Hole Size</th> <th>Depth</th> <th>Sks Cement</th> <th>Csg Pulled</th> </tr> </thead> <tbody> <tr> <td><u>8 5/8"</u></td> <td><u>12 1/4"</u></td> <td><u>88'</u></td> <td><u>85</u></td> <td><u>No</u></td> </tr> </tbody> </table>		Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled	<u>8 5/8"</u>	<u>12 1/4"</u>	<u>88'</u>	<u>85</u>	<u>No</u>																	
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THE ABOVE INFORMATION IS COMPLETE AND CORRECT.

Date August 24, 1983

Signed Lowell C. [Signature]
Title Geologist

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	88	Surface			
88	100	Lime			
100	190	Sand & Shale			
190	280	Shale			
280	290	Lime & Coal Streak			
290	700	Shale & Shaly Sand			
700	800	Sand			
800	990	Shaly Sand & Shale			
990	1270	Sand			
1270	1480	Shaly Sand			
1480	1510	Lime			
1510	1615	Shale w/Lime Streaks			
1615	1630	Sand			
1630	1760	Lime			
1760	1825	Shale			
1825	1830	Lime			
1830	1890	Shale			
1890	1950	Sand			
1950	1960	Lime			
1960	2070	Sand			
2070	2080	Lime			
2080	2110	Shale			
2110	2120	Lime			
2120	2200	Shale w/Lime Streaks			
2200	2210	Lime			
2210	2290	Sand			
2290	2295	Lime			
2295	2350	Sand			
2350	2360	Lime			
2360	2410	Sand			
2410	2430	Lime			
2430	2470	Shale & Shaly Lime			
2470	2500	Lime			
2500	2520	Shaly Sand			
2520	2721	Lime w/Dolomite Streaks			



AFFIDAVIT TO TIME AND MANNER OF
 PLUGGING AND FILLING WELL
 As Required by Law



Maciejem
 COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF MINES AND MINERALS
 P. O. Box 680
 LEXINGTON, KENTUCKY
 Oil and Gas Division

RECEIVED
 FEB 22 1984

Victor R. Gallagher, P. O. Box 237, Evansville, Indiana 47701
 Name and address of Last Operator

Same as Above
 Name and address of original Operator who first permitted and drilled this well

Not Applicable
 Name and address of Coal Operator

Permit No. 57252, Elevation 454, County Henderson

Carter Coordinate Location 1100' SL, 2550' WL, 21-0-23

Lease Name Maynard Hust Well No. 1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,
 County of Henderson } ss:

Victor R. Gallagher, operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on August 23, 1983, record of which is listed below.

Plugged from	<u>2721</u>	to	<u>1700</u>	with	<u>Mud</u>
Plugged from	<u>1700</u>	to	<u>1600</u>	with	<u>30 Sx cement</u>
Plugged from	<u>1600</u>	to	<u>620</u>	with	<u>Mud</u>
Plugged from	<u>620</u>	to	<u>470</u>	with	<u>50 Sx Cement</u>
Plugged from	<u>470</u>	to	<u>390</u>	with	<u>Mud</u>
Plugged from	<u>390</u>	to	<u>160</u>	with	<u>75 Sx Cement</u>
Plugged from	<u>160</u>	to	<u>30</u>	with	<u>Mud</u>
Plugged from	<u>30</u>	to	<u>3</u>	with	<u>10 Sx Cement & 10 Sx in Rathole</u>

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size 8 5/8", Shot off at Bottom casing at 88'
 Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe: _____
None

Signature of Contractor responsible for the above plugging, or _____

Victor R. Gallagher
 Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 20th day of February, 1984.



Karlana A. Bates
 Notary Public, Karlana A. Bates
 Resident of Spencer County

My Commission expires: 9-27-86

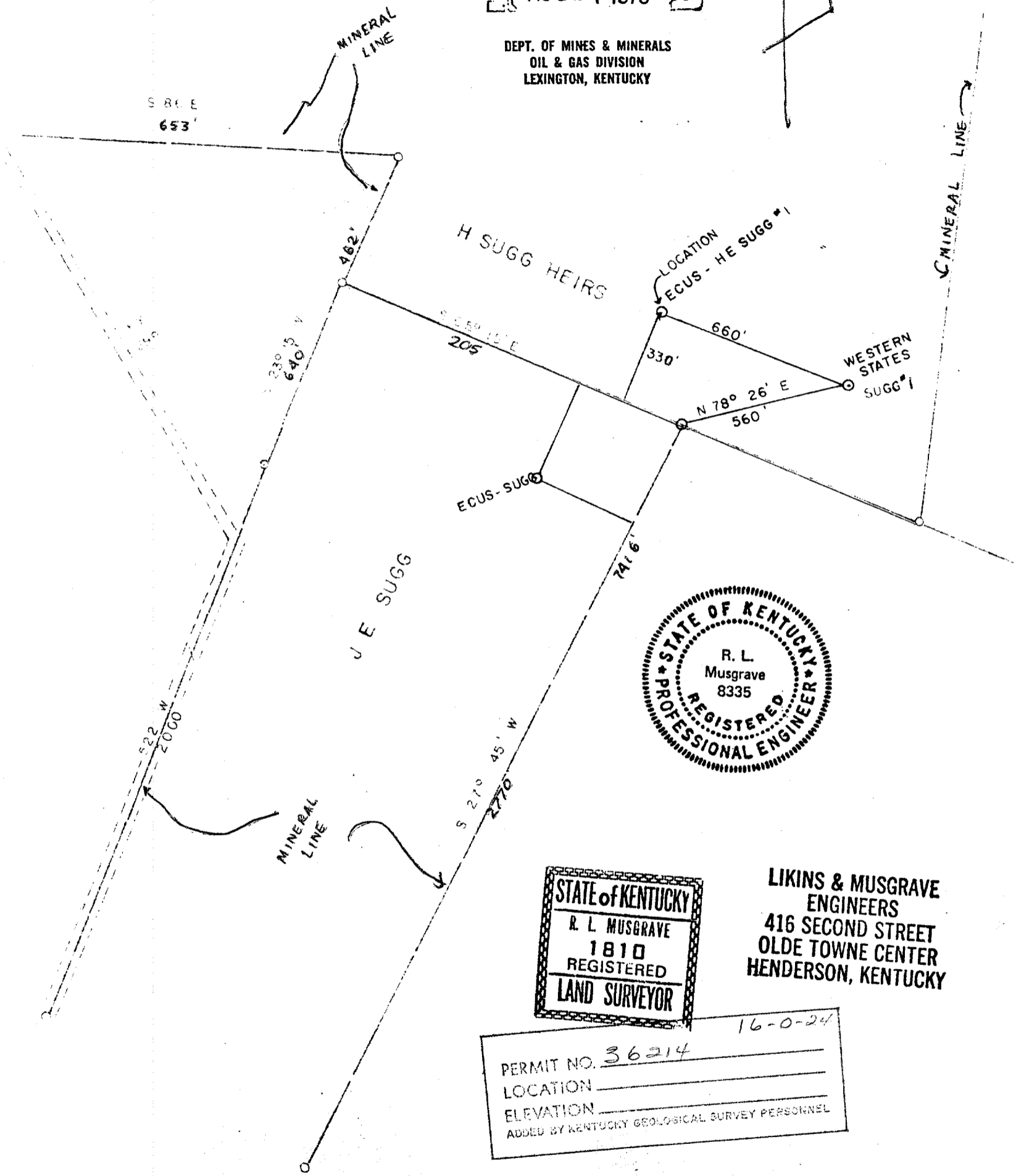
WELL LOCATION
ECUS - H. SUGG NO. 1

0023038001



RECEIVED
AUG 27 1979

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY



WELL NO. - - - - - 1

OPERATOR - - - - - ECUS CORP.

FARM - - - - - H. SUGG HEIRS

COUNTY - - - - - HENDERSON

TOWNSHIP - - - - - ROBARDS

CARTER COOR. NJ 16-8

16-0-24

850 FSL 620 FLL

SCALE - - - - - 1" = 400'

DATE - - - - - 8-22-79

ELEV. - - - - - 412 4/2



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586

microfilm
RECEIVED
JUL 5 1983
DEPT. OF MINES & MINERALS
LEXINGTON, KENTUCKY

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>36214</u> Operator <u>Ecus Corp.</u> Farm Name <u>H. Sugg Heirs</u> Well No. <u>#1</u>		TYPE OF COMPLETION (check one) Dry Hole <input type="checkbox"/> Shut-in or Producing? Oil <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>																												
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>16</u> <u>0</u> <u>24</u> <small>(section) (letter) (number)</small> Footage from Section Lines: <u>850'</u> from <u>N</u> line <u>620'</u> from E line <small>S W</small>																												
ELEVATION <u>412'</u> (ground) <u>417.5'</u> (D.F.) (K.B.)		INITIAL PRODUCTION Natural <u>Tested Water</u> Date _____ After Treatment _____ Date _____																												
TOTAL DEPTH Driller's Log <u>0-2321'</u> Geophysical Log <u>0-2321'</u>		COMPLETION INTERVAL Formation Name(s) <u>2274-2312'</u> Interval(s) <u>Benoist Ss</u>																												
OPERATIONAL DATES Date Commenced _____ Date Drilling Completed <u>9-11-79</u> Date Plugged <u>10-22-80</u> Date Placed in Operation _____ <small>(if dry hole) (if producing, injection, etc.)</small> Date Shut-in _____ <small>(if shut-in producer or other temporarily suspended operation)</small>		WELL TREATMENT (check applicable boxes) <table border="1"> <thead> <tr> <th></th> <th>In Open Hole</th> <th>Thru Perforatio</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>			In Open Hole	Thru Perforatio	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand			Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand		
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DRILLING METHOD Cable _____ Rotary _____ Tools from <u>0</u> to <u>2321'</u> Tools _____ <small>(Depths) air -from _____ to _____ (Depths)</small>		CONTRACTOR(S): <u>Smith Drilling Co., Inc.</u> Address: <u>P. O. Box 150 - Lawrenceville, IL 62439</u>																												
TYPE(S) OF GEOPHYSICAL LOGS RUN: <small>(Electrical, Induction, sonic, gamma ray, neutron, density, etc.)</small> <u>IES, DBC, GRS</u>		<table border="1"> <thead> <tr> <th>Casing Size</th> <th>Hole Size</th> <th>Depth</th> <th>Sks Cement</th> <th>Csg Pulled</th> </tr> </thead> <tbody> <tr> <td><u>8 5/8"</u></td> <td><u>12 1/4"</u></td> <td><u>194'</u></td> <td><u>180 sks</u></td> <td><u>None</u></td> </tr> <tr> <td><u>4 1/2"</u></td> <td></td> <td><u>2320'</u></td> <td><u>525 sks</u></td> <td><u>None</u></td> </tr> </tbody> </table> <u>Circ. to surface both 8 5/8" & 4 1/2" csg.</u>		Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled	<u>8 5/8"</u>	<u>12 1/4"</u>	<u>194'</u>	<u>180 sks</u>	<u>None</u>	<u>4 1/2"</u>		<u>2320'</u>	<u>525 sks</u>	<u>None</u>												
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OCCURRENCE OF OIL AND GAS

Interval <small>(Depths-Top, Base)</small>	Formation	Remarks <small>(Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)</small>
<u>2280-2321'</u>	<u>Benoist Ss</u>	<u>DST # 1 : Rec. 10' oil, 20' oil cut mud, 30' heavy oil cut mud w/show of gas, 30' heavy oil cut mud w/salty taste, 30' salty oil cut mud, 30' salt water</u> <u>ICIP 170, FCIP 170, IFP 0, FFP 70</u>

THE ABOVE INFORMATION IS COMPLETE AND CORRECT.

Date July 1, 1983

Signed Cynnie Hammonds
Cynnie Hammonds
Title Agent

This form must be completed and filed for every permit. Re-Opened wells need not include a driller's log. However, the front side of the form must be completed.

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	15	soil			
15	1002	shale			
1002	1110	sandstone			
1110	1170	shale			
1170	1212	sandstone			
1212	1640	limey shale			
1640	1680	limestone			
1680	1746	shale			
1746	1750	lime			
1750	1756	shale			
1756	1794	sandstone			
1794	1879	sand & shale			
1879	1890	limestone			
1890	1956	shale			
1956	1984	sandstone			
1984	2006	shale			
2006	2048	lime			
2048	2134	shale			
2134	2140	lime			
2140	2168	shale			
2168	2206	sandstone			
2206	2214	shale			
2214	2224	lime			
2224	2274	shale			
2274	2312	sandstone			
2312	2321	shale			

0023038003



AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL
As Required by Law



RECEIVED
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
MAY 21 1981 P.O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division
DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

Ecus Corporation/ P.O. Box #268/ Mt. Vernon, In. 47620

Name and address of Last Operator

ECUS CORP.

Name and address of original Operator who first permitted and drilled this well

NONE

Name and address of Coal Operator

Permit No. 36214, Elevation 412, County HENDERSON.

Carter Coordinate Location 16-0-24 850' FSL X 620' FEL

Lease Name H. Suggs HEIRS Well No. 2

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

INDIANA
STATE OF ~~KENTUCKY~~,
County of POSEY ~~Henderson Co.~~ } ss:

0023038004



Ecus Corporation

of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on 22 October, 19 80, record of which is listed below.

Plugged from	<u>2096 Ft.</u>	to	<u>2296 Ft.</u>	with	<u>15 Sx. Regular Pozmix Cement.</u>
Plugged from	<u>0 Ft.</u>	to	<u>550 Ft.</u>	with	<u>40 Sx. " " "</u>
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	
Plugged from		to		with	

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size 4 1/2, Shot off at -04' Bottom casing at TD
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe:
NO STEEL OR JUNK - HOLE IS CLEAN.

Signature of Contractor responsible for the above plugging, or

Ecus Corp.
Clifford C. Suggs Sr.

Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 18th day of May, 1981

Virginia L. Kuebler
Notary Public
VIRGINIA L. KUEBLER
RESIDENT OF VANDERBURGH COUNTY

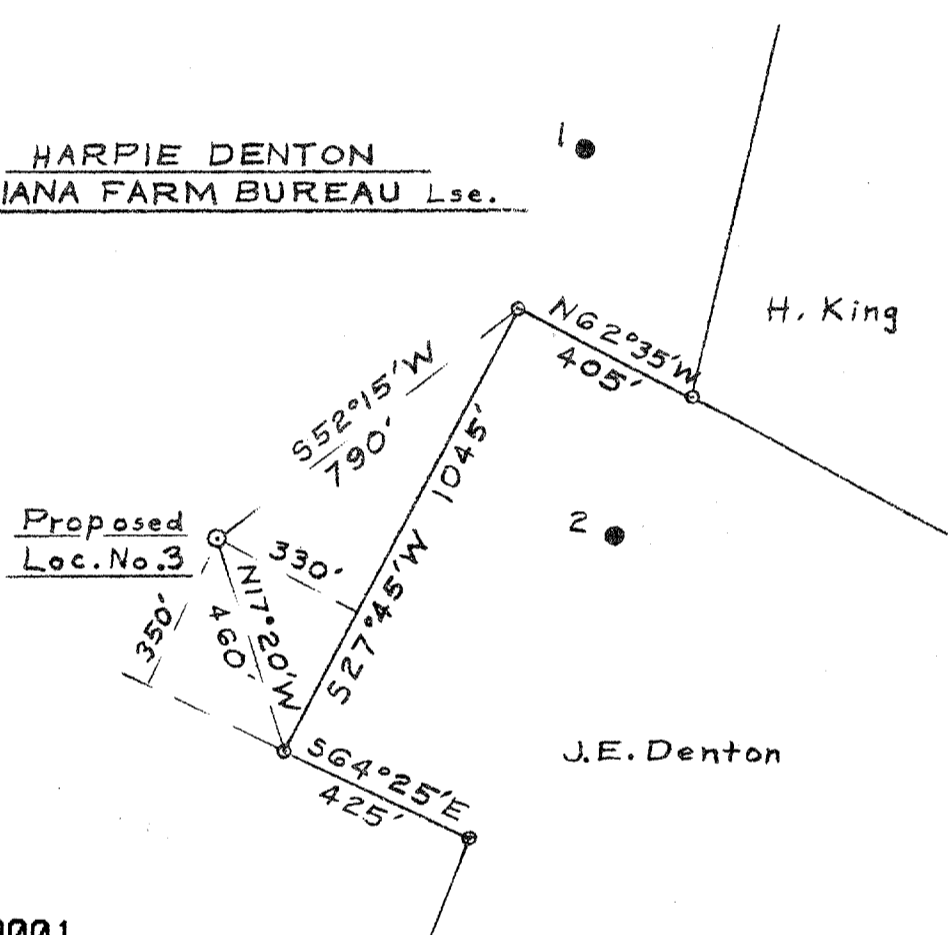
My Commission expires: 5-12-84

WELL LOCATION PLAT

61164



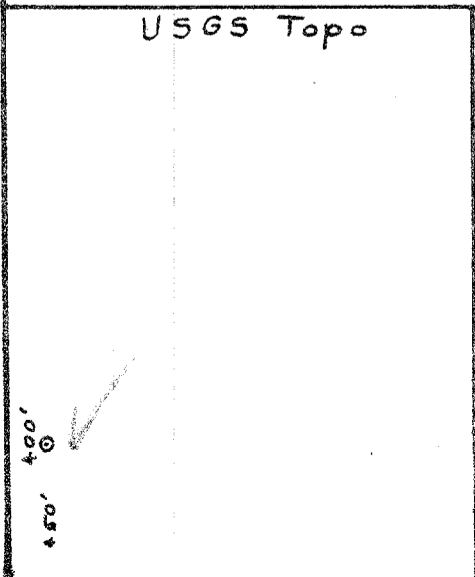
HARPIE DENTON
INDIANA FARM BUREAU Lse.



CARTER COORDINATE

15-0-21 Scale 1" = 2000'

USGS Topo



Operator Indiana Farm Bureau Co-op. Assoc., Inc.
 Farm Harpie Denton
 Well No. 3 Elevation _____
 County Barderson Kentucky
 Date 11-22-58 Scale 1"=100'
 Engineer F. L. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961

Serial No. _____
 State Ind. Co. Wind. Sec. 15 T. 0 R. 24 Pool Pool Cone.
 Oper. Ind. Farm Bureau Elev. _____ DF. _____ Gr. _____
 Farm H. L. Denton No. 3 TD. 2533 PB. _____

LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
<u>K</u>	<u>Scout</u>	<u>1400 S</u>	<u>450 W</u>	<u>S</u>	Prov. Ls.		<u>2535</u>
	Farm				No. 11 Coal		
	L.&S.				No. 9 Coal		
					Mansfield		
					Penn. Sd.		
	Comm. <u>12-1-58</u>		Comp. <u>JAN 8</u>	<u>1959</u>	B. Penn.		
	Remarks: <u>ft.</u>				Biehl		
	CASING RECORD				Up. Kincaid		
	12"	10"	8"	6"	Lo. Kincaid		<u>1452-79</u>
		<u>62</u>		<u>2536</u>	Degonia		
	SHOT-ACID RECORD				Clore		
	Date	Qt.-Gal.	From	To	Palestine		
					Up. Menard		
					Menard		<u>1650-97</u>
					Lo. Menard		<u>1724-30</u>
					Walt'burg		<u>1734-41</u>
					"		
					Vienna		<u>1800-04</u>
					T. S. (Jett)		
					"		
					Up. G. D.		
					Lo. G. D.		<u>-1939</u>
					Hd. (Jones)		
					"		
					Golconda		<u>-2093</u>
					Jackson		
					Barlow Ls.		<u>2181-87</u>
					Cypress		<u>2212-38</u>
					"		
					Up. Pt. Creek		
					Pt. Creek Sd.		
					Lo. Pt. Creek		
					Beth-Ben		
					Up. Renault		<u>2374-</u>
					Renault		
					Aux Vases		
					"		
					St. Gen.		<u>2463-</u>
					O'hara-Rosi		
					Fredonia		
					McClosky (OH)	<u>550</u>	<u>2472-82</u>
					"	<u>50</u>	<u>2506-22</u>
					"		
					St. Louis		
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

I. P.
 DATE DRILLING RECORD
4 DEC '58 Ø 1150
DST 2505-25
1 1320' G
45' M
60' OCM, al.
60' SW^{stly}
BHP 719
WOC
will be a SW disposal well

0025349002


D&A



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 795-W8

Oil or Gas Well Oil
(Kind)

Company Indiana Farm Bureau Coop. Ass'n., Inc. Casing and Used in Left In Tubing
 Address P. O. Box 271 Mt. Vernon, Indiana Drilling Well
 Farm Harpie Denton Acres 1 Size 16
 Location (waters) 15-0-24 Kind of Packer 13
 Well No. 3 Elev. 410 Gr Size of 10
 District Henderson County Henderson Size of 8 3/4
 Drilling Commenced 12-1-58 Depth Set 6%
 Drilling Completed 12-8-58 Size of 5 3/16
 Name of Contractor T. W. George Perf. top 2508
 Address of Contractor Box 152 Mt. Carmel, Ind. Perf. bottom 2512
 Date Shot From To Perf. top 2512
 With --- Perf. bottom 2520

Open flow /10ths Water in --- Inch
 /10ths Merc. in --- Inch

Casing Cemented --- Size --- No. Ft. --- Date ---
 Surface - 10 3/4" 62' 60 sacks
 T.D. - 2535 with 5 1/2" 125 sacks

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Mud			0	20			
Sand			20	70			
Shale, Lime, Shell			70	100			
Shale, Shells, Sand			100	560			
Shale, Sand			560	935			
Sand, Shale			935	960			
Sand			960	1170			
Sand, Shale			1170	1190			
Sand			1190	1210			
Sand, Water			1210	1250			
Shale, Sand			1250	1340			
Shale, Sand			1340	1385			
Water, Sand			1385	1452			
Lime			1452	1478			
Shale, Lime			1478	1535			
Shale			1535	1560			
Shaly Sand, Shale			1560	1605			
Sandy, Shale, Lime			1605	1630			
Shale, Lime			1630	1697			
Shale			1697	1724			
Lime, Shale			1724	1729			
Shale, Sand			1729	1760			
Shale			1760	1799			
Vienna Lime			1799	1806			
Lime, Shale			1806	1890			
Lime, Shale			1890	1894			
Shale, Lime			1894	1932			
G.D. Lime			1932	1939			
Sand			1939	1992			
Shale, Sand			1992	2001			

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LEXINGTON KENTUCKY

0025349003



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Sandy Shale, Lime			2001	2019			
Hard Sand, Shale			2019	2038			
Lime, Gol.			2038	2048			
Gol. Lime			2048	2053			
Shale			2053	2083			
Barlow			2083	2088			
Shale			2088	2137			
Shale, Shaly Sand			2137	2188			
Shale, Sand			2188	2211			
Sandy Shale, Lime			2211	2218			
Shaly Sand			2218	2237			
Lime, Shale			2237	2287			
Shale			2287	2317			
Sandy, Lime, Shale			2317	2342			
Lime, Shale			2342	2467			
Lime			2467	2403			
Shale			2403	2413			
Lime, Shale			2413	2470			
Lime			2470	2525			
T.D. Lime			2525	2533			



Date March 25, 19 59

APPROVED Indiana Farm Bureau Owner

By Gleam Thompson
(Title) Gleam Thompson

Production Division

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OCT 31 1983

OCT 20 1983

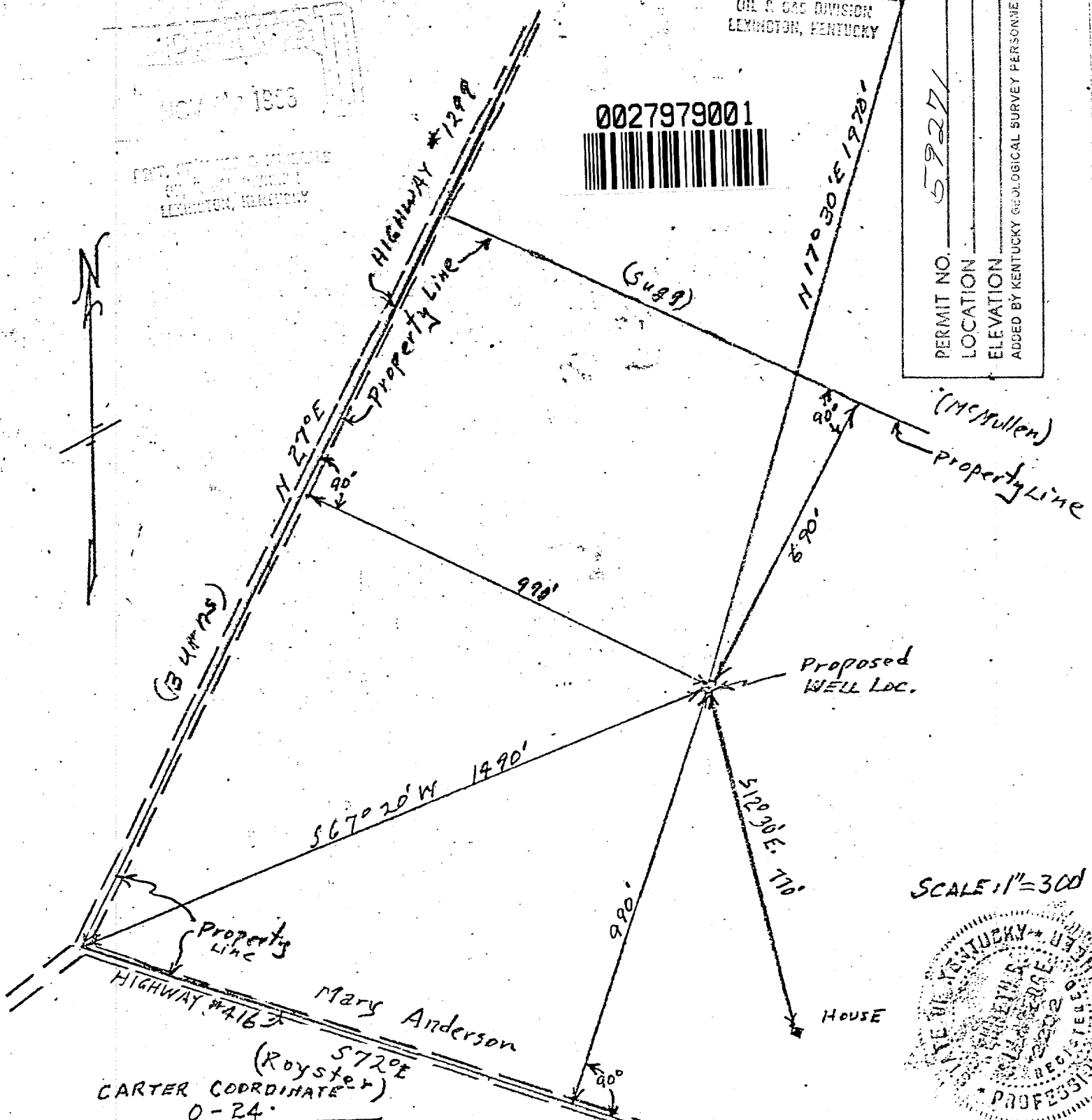
DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

0027979001



PERMIT NO.	59271
LOCATION	
ELEVATION	
ADDED BY KENTUCKY GEOLOGICAL SURVEY PERSONNEL	

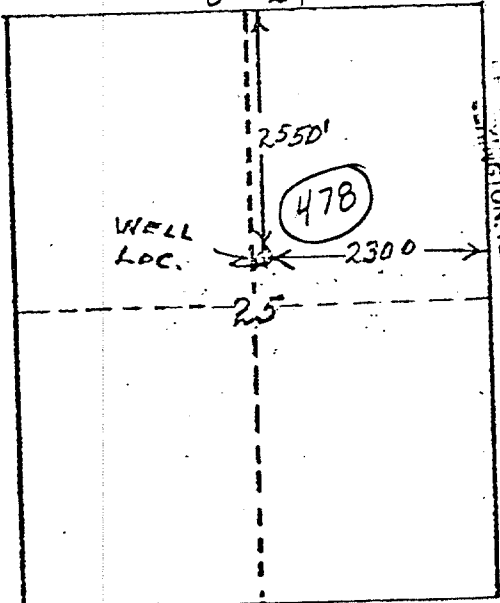


SCALE: 1" = 300'



ROBARDS 7 1/2' QUADRANGLE

OPERATOR: Hydrocarbon Investments, Inc.
 FARM: Mary Anderson
 WELL No. 1
 ELEVATION: 439 Ground
 COUNTY: Henderson
 SCALE: 1" = 300'
 DATE: August 15, 1983
 ENGINEER: Kenneth B. Alldredge
 ADDRESS: 5 Montgomery Circles
 Carmi, Illinois 62821



scale: 1" = 2000'

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LEXINGTON, KENTUCKY

I hereby certify that the above Plat is true and correct and shows the location of the proposed location of No. 1 Mary Anderson.

Surveyed by: *Kenneth B. Alldredge*
Ky. Reg. Prof. Engineer #2292

Microfilm

0027979002
[Barcode]



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586

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WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>59271</u> Operator <u>Hydrocarbon Investments, Inc.</u> Farm Name <u>Mary Anderson</u> Well No. <u>1</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? Oil <input type="checkbox"/> Gas <input type="checkbox"/> Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>																															
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>Henderson</u> Carter Coordinates <u>25</u> <u>0</u> <u>24</u> <small>(section) (letter) (number)</small> Footage from Section Lines: <u>2550</u> from N line <u>2300</u> from E line <small>XSX XXXX</small> ELEVATION <u>439</u> (ground) <u>444</u> (K.B.) <small>XXX</small> TOTAL DEPTH Driller's Log <u>2620</u> Geophysical Log <u>2622</u>																															
OPERATIONAL DATES Date Commenced <u>11-25-83</u> Date Drilling Completed <u>11-30-83</u> Date Plugged <u>11-30-83</u> Date Placed in Operation _____ <small>(if dry hole) (if producing, injection, etc.)</small> Date Shut-in _____ <small>(if shut-in producer or other temporarily suspended operation)</small>		INITIAL PRODUCTION Natural _____ Date _____ After Treatment _____ Date _____																															
DRILLING METHOD Cable _____ Rotary conventional-from <u>0</u> to <u>2620</u> Tools from _____ to _____ Tools air _____ from _____ to _____ <small>(Depths) (Depths)</small> CONTRACTOR(S): <u>Kendall Drilling Co., Inc.</u> Address: <u>P. O. Box 5304</u> <u>Evansville, IN 47715</u>		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____ _____ _____ _____																															
TYPE(S) OF GEOPHYSICAL LOGS RUN: <small>(Electrical, Induction, sonic, gamma ray, neutron, density, etc.)</small> <u>Dual Induction Laterolog</u>		WELL TREATMENT <small>(check applicable boxes)</small> <table border="1"> <thead> <tr> <th></th> <th>In Open Hole</th> <th>Thru Perforation</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>			In Open Hole	Thru Perforation	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand			Fracture _____ gals. _____ Interval _____	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand					
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_____	_____	_____	_____	_____																													
_____	_____	_____	_____	_____																													
_____	_____	_____	_____	_____																													

OCCURRENCE OF OIL AND GAS

Interval <small>(Depths-Top, Base)</small>	Formation	Remarks <small>(Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)</small>
<u>2340-60</u>	<u>Benoist Ss</u>	<u>Show of oil. DST 2324-59: 60/60/60/60 Rec. 40' gas, 50' oil cut mud with show of oil.</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

THE ABOVE INFORMATION IS COMPLETE AND CORRECT.
 Date December 6, 1983
 Signed Craig Kendall
 Title Craig Kendall, President

HYDROCARBON INVESTMENTS, INC.

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	50	Surface hole			
50	1310	Sand & Shale			
1310	1445	Lime & Shale			
1445	1495	Kinkaid Lime			
1495	1655	Shaley Sand & Lime			
1655	1727	Massive Menard Lime			
1727	1733	Little Menard Lime			
1733	1795	Waltersburg Sand			
1795	1800	Vienna Lime			
1800	1920	Tar Springs Sand			
1920	1932	Glen Dean Lime			
1932	2088	Hardinsburg Sand			
2088	2098	Golconda Lime			
2098	2195	Shaley Lime			
2195	2260	Cypress Sand			
2260	2270	Upper Paint Creek Lime			
2270	2310	Paint Creek Sand			
2310	2339	Lower Paint Creek Lime			
2339	2365	Sand & Shale			
2365	2464	Renault Lime			
2464	2560	Lime			
2560	2620	McClosky Lime			
	2620	T.D.			



AFFIDAVIT TO TIME AND MANNER OF PLUGGING AND FILLING WELL

As Required b

0027979004



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Microfilm COMMONWEALTH OF KENTUCKY DEPARTMENT OF MINES AND MINERALS P. O. Box 680 LEXINGTON, KENTUCKY Oil and Gas Division

Name and address of Last Operator

Hydrocarbon Investments

2104 Lincoln DEPT. OF MINES & MINERALS OIL & GAS DIVISION Evansville, IN. 47714 LEXINGTON, KENTUCKY

Same as above

Name and address of original Operator who first permitted and drilled this well

Name and address of Coal Operator Peabody Coal Company, P. O. Box 1981, Henderson, KY 42420

Permit No. 59271, Elevation 439 GL 444 KB, County Henderson

Carter Coordinate Location 25-0-24

Lease Name Anderson Well No. 1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY, County of Henderson } ss:

Hydrocarbon Investments, operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on November 30, 1983, record of which is listed below.

Plugged from 550 to 450 with 35 sacks
Plugged from 280 to 218 with 20 sacks
Plugged from 180 to 0' with 60 sacks
Plugged from Rathole with 10 sacks

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size, Shot off at Bottom casing at

State whether or not other steel or junk was left in well and describe:

Signature of Contractor responsible for the above plugging, or

Craig Kendall, President, Hydrocarbon Investments, Inc.

Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 3rd day of January, 1984

Lana R. Barkman Notary Public

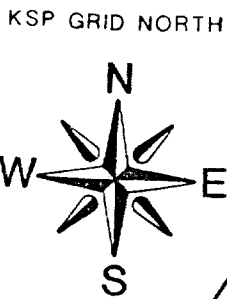
My Commission expires: July 1, 1986

WELL LOCATION PLAT

10-0-23

11-0-23

11-0-23



LEGEND

- P. E. SMITH = LESSOR
- P. E. ACME OIL CO. = LESSEE
- = ROAD
- = DITCH or CREEK
- = PROPOSED LOCATION
- = EXIST. LOCATION OR WELL
- = LEASE LINE
- = UNIT LINE
- = CART. SEC. LINE
- PMR = PROTON MAGNETOMETER READING

**PROPOSED LOC.
SHIRLEY HURT #1**

CLAREY
FLOYD WILLIAMS

PERMIT NO. 60108
 LOCATION _____
 ELEVATION _____
 ADDED BY KENTUCKY GEOLOGICAL SURVEY PERSONNEL

1833 FNL
1540 FWL



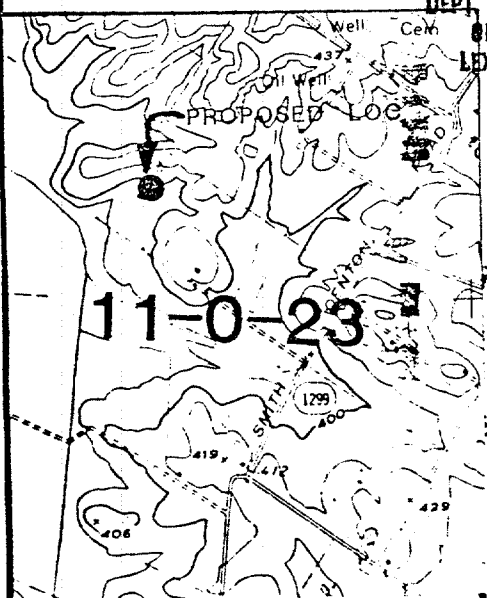
11-0-23
U.S.G.S. ROBARDS QUAD

CARTER COORDINATE

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DEC 22 1983

BRG TABLE

A = S 27 23 29 E- 985'
B = S 56 25 02 E-2506'



DEPT. OF MINES & MINERALS
 OIL & GAS DIVISION
 LEXINGTON, KENTUCKY
 COUNTY _____
 DATE - 12-20-83
 SURVEYOR - DENNIS E. BRANSON
 ADDRESS - 330 SECOND STREET, HENDERSON, KY. 42420

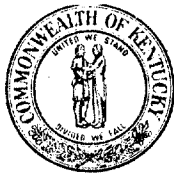
STATE OF KENTUCKY
 P. T. BAILEY
 5789
 REGISTERED PROFESSIONAL ENGINEER

STATE OF KENTUCKY
 DENNIS E. BRANSON
 REGISTERED LAND SURVEYOR

I HEREBY CERTIFY THAT THE ABOVE PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Dennis E. Branson
 REGISTERED SURVEYOR NO. 2532

NOTE: ALL ADJ. LESSOR/LESSEE INFORMATION FURNISHED BY OPERATOR OR COUNTY TAX COMMISSIONER
Branson Surveys, Inc.



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
P.O. BOX 680
LEXINGTON, KENTUCKY 40586

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DEPT. OF MINES & MINERALS
OIL AND GAS DIVISION

File

WELL LOG AND COMPLETION REPORT

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL
NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. <u>60108</u> Operator <u>OIL RECOVERY CORP OF AMERICA</u> Farm Name <u>SHIRLEY HURT</u> Well No. <u>1</u>		TYPE OF COMPLETION (check one) Dry Hole <input checked="" type="checkbox"/> Shut-in or Producing? Oil <input type="checkbox"/> Gas <input type="checkbox"/> Pressure Maintenance or Secondary Recovery: Water Injection <input type="checkbox"/> Gas Injection <input type="checkbox"/> Gas Storage: Injection-Extraction <input type="checkbox"/> Observation <input type="checkbox"/>																																																			
TYPE OPERATION (check one) Re-Open <input type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/>		LOCATION County <u>HENDERSON</u> Carter Coordinates <u>11 0 23</u> (section) (letter) (number) Footage from Section Lines: <u>1833'</u> from <u>N</u> line <u>1540'</u> QUAD. <u>330'</u> from <u>S</u> line <u>330'</u> from <u>E</u> line <u>330'</u> <u>W</u>																																																			
ELEVATION <u>409.8'</u> (ground) <u>414.8</u> (D.F.) (K.B.)		INITIAL PRODUCTION Natural _____ Date _____ After Treatment _____ Date _____																																																			
TOTAL DEPTH Driller's Log <u>2600</u> Geophysical Log <u>2599</u>		COMPLETION INTERVAL Formation Name(s) _____ Interval(s) _____ _____ _____																																																			
OPERATIONAL DATES Date Commenced <u>12/24/83</u> Date Drilling Completed <u>1/2/84</u> Date Plugged <u>1/2/84</u> Date Placed in Operation _____ (if dry hole) (if producing, injection, etc.) Date Shut-in _____ (if shut-in producer or other temporarily suspended operation)		WELL TREATMENT (check applicable boxes) <table border="1"> <thead> <tr> <th></th> <th>In Open Hole</th> <th>Thru Perforation</th> </tr> </thead> <tbody> <tr> <td>Shot _____ qts. _____ Interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Shot _____ qts. _____ Interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Acid _____ gals. _____ Interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> <tr> <td>Fracture _____ gals. _____ Interval</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>_____ lbs/sand</td> <td></td> <td></td> </tr> </tbody> </table>			In Open Hole	Thru Perforation	Shot _____ qts. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>	Shot _____ qts. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>	Acid _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>	Fracture _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand			Fracture _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>	_____ lbs/sand																									
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_____ lbs/sand																																																					
DRILLING METHOD Cable _____ Rotary conventional-from <u>0</u> to <u>2600</u> Tools from _____ to _____ Tools air -from <u>0</u> to <u>2600</u> (Depths) (Depths)		CONTRACTOR: <u>KENDALL DRILLING CO.</u> Address: <u>P.O. BOX 5304, EVANSVILLE, IND 47715</u>																																																			
TYPE(S) OF GEOPHYSICAL LOGS RUN: (Electrical, induction, sonic, gamma ray, neutron, density, etc.) <u>DENSITY & COMPENSATED NEUTRON POROSITY</u> <u>DUAL INDUCTION FOCUSED LOG</u>		<table border="1"> <thead> <tr> <th>Casing Size</th> <th>Hole Size</th> <th>Depth</th> <th>Sks Cement</th> <th>Csg Pulled</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled																																													
Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled																																																	

OCCURRENCE OF OIL AND GAS

Interval (Depths-Top, Base)	Formation	Remarks (Shows of Oil and/or Gas, Fill-up Tests, DST'S, Cores, etc.)



THE ABOVE INFORMATION IS COMPLETE AND CORRECT.
Date 1/9/84

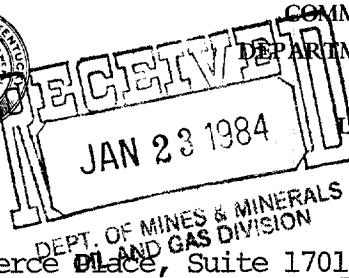
Signed Ronnie J. M...
Title Dist. Supt

FORMATION RECORD

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	50	SURFACE HOLE			
50	1625	SAND & SHALE			
1625	1680	MASSIVE MENARD LIME			
1680	1705	LIMEY SHALE			
1705	1707	LITTLE MENARD LIME			
1707	1740	WALTERS BERG SAND			
1740	1766	SAND & SHALE			
1766	1775	VIENNA LIME			
1775	1903	SANDY LIME			
1903	1922	GLEN DEAN LIME			
1922	2011	SHALEY SAND			
2011	2077	GALLOUDA LIME			
2077	2162	JACKSON SAND			
2162	2168	BARLOW LIME			
2168	2184	CYPRESS SAND			
2184	2250	SAND			
2250	2300	LIME			
2300	2372	BENOIST SAND			
2372	2411	UPPER RENAULT LIME			
2411	2432	LOWER RENAULT LIME			
2432	2465	LOWER RENAULT LIME			
2465	2514	MC CLOSKEY LIME			
2514	2600	LIME			
	2600	TOTAL DEPTH.			



AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL
As Required by Law



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

File

Oil Recovery Corporation Of America. One Commerce Place, Suite 1701. Nashville, Tenn
Name and address of Last Operator

Same
Name and address of original Operator who first permitted and drilled this well

Peabody Coal Company. Eastern Division. 1951 Barrett Ct. P.O. Box 1981. Henderson, Ky 42420
Name and address of Coal Operator

Permit No. 60108, Elevation 409', County Henderson

Carter Coordinate Location 11-0-23

Lease Name Shirley Hurt Well No. 1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

Indiana AFFIDAVIT
STATE OF ~~KENTUCKY~~,
County of Vanderburgh } ss:

Oil Recovery Corporation of America, operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on 1/2, 19 84, record of which is listed below.

Plugged from <u>430</u>	to <u>365</u>	with <u>20 Sks</u>
Plugged from <u>300</u>	to <u>160</u>	with <u>45 Sks</u>
Plugged from <u>100</u>	to <u>03</u>	with <u>35 Sks</u>
Plugged from _____	to _____	with <u>Rat Hole with 10 Sks</u>
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size _____, Shot off at _____ Bottom casing at _____
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other steel or junk was left in well and describe: None

0030790004

Kendall Drilling Company Inc by Jeannette L Kendall Secy Treas
Signature of Contractor responsible for the above plugging,

Romya Morris
Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 18th day of January, 1984

Anna Mae Walton
Notary Public for & reside
in Vanderburgh Co. Ky

My Commission expires: 12-9-85

WELL LOCATION PLAT
 FLOYD E. WILLIAMS EQUIPMENT COMPANY - JAMES CLARY NO. 3

0063845001

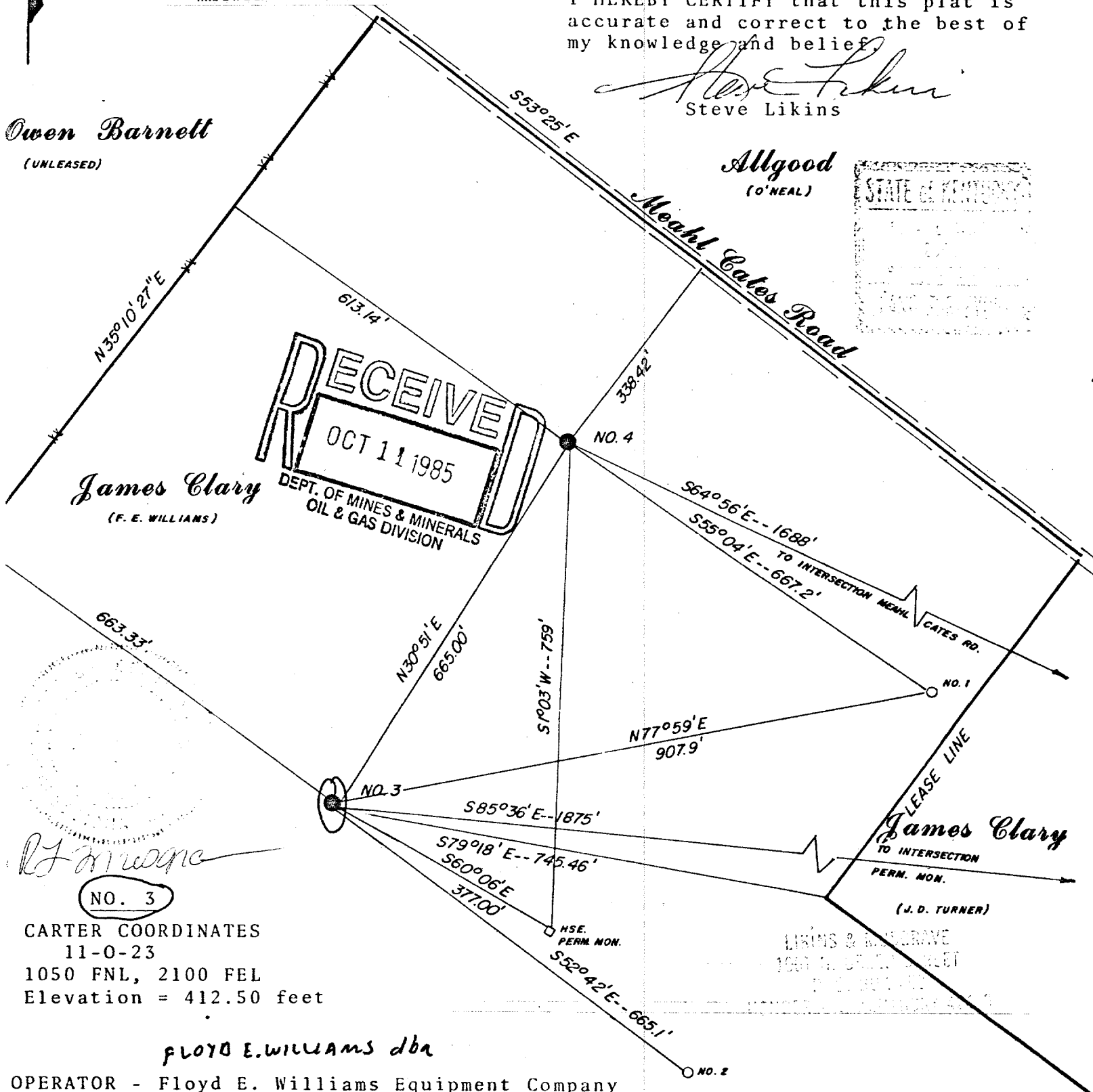
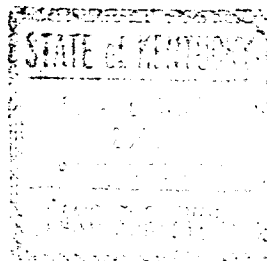


I HEREBY CERTIFY that this plat is accurate and correct to the best of my knowledge and belief.

Steve Likins
 Steve Likins

Owen Barnett
 (UNLEASED)

Allgood
 (O'NEAL)



J. Williams
 NO. 3

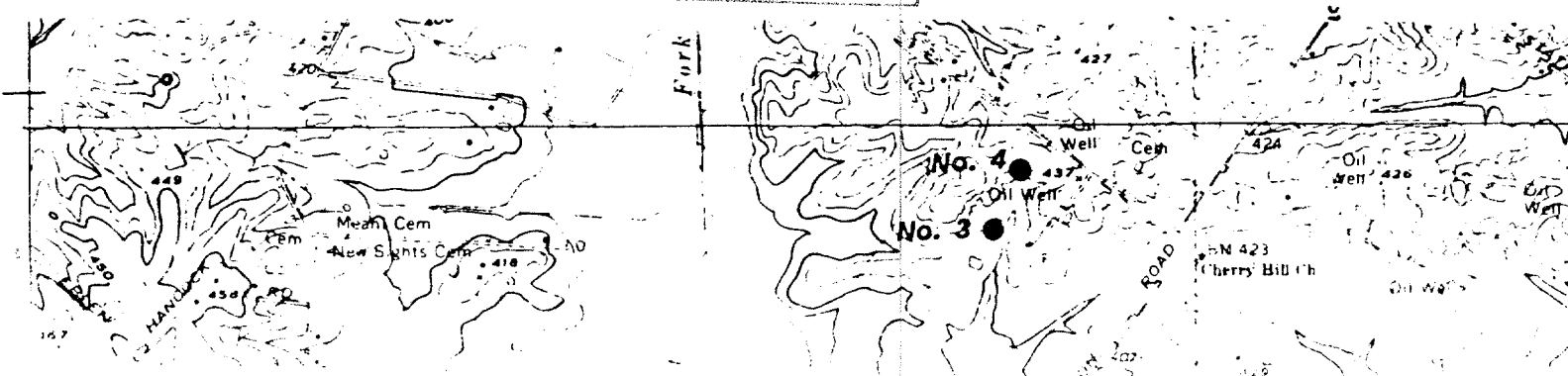
CARTER COORDINATES
 11-0-23
 1050 FNL, 2100 FEL
 Elevation = 412.50 feet

FLOYD E. WILLIAMS dba

OPERATOR - Floyd E. Williams Equipment Company
 FARM - James Clary
 COUNTY - Henderson
 TOPO SHEET - Robards
 DATE - 9/16/85
 SCALE - 1" = 200'

PERMIT NO. 70705
 LOCATION _____
 ELEVATION _____
 APPROVED BY _____

NO. 4
 CARTER COORDINATES
 11-0-23
 450 FNL, 1800 FEL
 Elevation = 423.5 feet



0063845002



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
BOX 690
LEXINGTON, KENTUCKY 40586

WELL LOG AND
COMPLETION REPORT
AS REQUIRED BY LAW

TYPE OR PRINT

HENDERSON 70705
WILLIAMS, FLOYD E DBA WILLIAMS, FLOYD E EQUIP
CLARY, JAMES A 3
11 0 23 1050 FNL 2100 FEL

TYPE OF COMPLETION (Check One)

Dry Hole Shut-In or Producing?
Oil
Gas

TYPE OPERATION	LOCATION
Twin Well <input type="checkbox"/>	County <u>Henderson</u>
Re-Open <input type="checkbox"/>	
New Well <input checked="" type="checkbox"/>	Sec. <u>11</u> , Letter <u>0</u> , Number <u>23</u>
Workover <input type="checkbox"/>	
Deepening <input type="checkbox"/>	<u>1050</u> FNL <u>2100</u> FEL

ENHANCED RECOVERY: Water Injection Gas Injection

SERVICE WELL: Water Supply Salt Water Disposal Observation

GAS STORAGE: Injection-Extraction Other

Other Describe _____

ELEVATION 412.50 (ground) 415.50 (K.B.)

TOTAL DEPTH DRILLED 2620
OPERATIONAL DATES

Commenced Nov. 20, 1985 Completed Nov. 26, 1985
Placed in Operation n/a
Plugged Nov. 26, 1985 Shut-In n/a

DRILLING METHOD

Cable Tool: From _____ To _____

Rotary: Conventional , Air , Mud

From 0 To 2620

INITIAL PRODUCTION

Oil: Natural _____ B/D _____ Date _____
After Treatment _____ B/D _____ Date _____

Gas: Natural _____ MCF _____ Date _____

Against Backpressure of _____ PSI
Shut-In Pressure _____ after _____ hours
After Treatment _____ MCF _____ Date _____
Against Backpressure of _____ PSI
Shut-In Pressure _____ after _____ hours

GEOPHYSICAL LOGS RUN

(Electrical, induction, sonic, gamma ray, neutron, density, etc.)

Type	From	To
Induction-Electric	40	2620

COMPLETION INTERVAL

Formation Name	Interval

WATER ENCOUNTERED

(Fresh, salt, sulfur)

Type	From	To

Comments _____

WELL TREATMENT

	In Open Hole	Thru Perforation
Shot _____ qts. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>
Shot _____ qts. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>
Acid _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>
Acid _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>
Frac. _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>
_____ lbs./sand		
Frac. _____ gals. _____ Interval	<input type="checkbox"/>	<input type="checkbox"/>
_____ lbs./sand		

CASING DATA

Casing Outside Diameter	Hole Diameter	Depth	Cement No. Sks.	Pulled Yes/No
8-5/8"	10-3/4"	47.20	45 sks	no

Cement yield in cubic feet/sack = _____

Comments _____

OCURRENCE OF OIL AND GAS

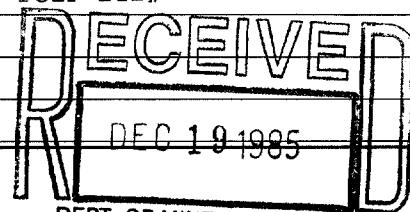
Formation	Interval	Remarks
McCloskey "A"	2480-86	DST #1: 160' gas, 29' very slightly oil cut mud, 6" clean oil, ICIP 135#, FCIP 212#

The undersigned hereby swears (or affirms) that the foregoing facts given are true as therein set forth.

Dates this 18th day of December, 19 85

[Signature]
Signature

Secretary/Treasurer
Title



DEPT. OF MINES & MINERALS
OIL & GAS DIVISION

KENDALL DRILLING CO., INC.

P. O. BOX 5304
EVANSVILLE, IN 47715
(812) 477-5535

0063845003

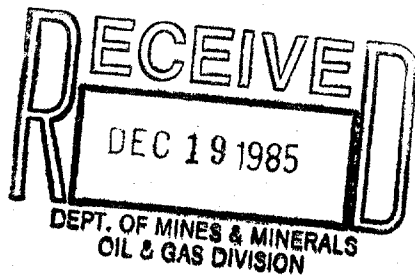


DRILLERS' LOG

OPERATOR: FLOYD E. WILLIAMS EQUIPMENT CO.
P. O. BOX 1198, HENDERSON, KY 42420
WELL NAME: JAMES A. CLARY #3
PERMIT NO.: 70705
WELL LOCATION: 1050 FNL 2100 FEL, 11-0-23, HENDERSON COUNTY, KENTUCKY
DATE COMMENCED: NOVEMBER 20, 1985
DATE COMPLETED: NOVEMBER 26, 1985
SURFACE CASING: RAN 42.2' OF 8 5/8" CASING SET AT 47.2', CEMENTED WITH
45 SACKS OF CLASS "A" CEMENT WITH 3% CALCIUM CHLORIDE.
PLUGGING DATA: 2620 - 540' DRILLING MUD, 540 - 440' 35 SACKS OF CEMENT,
440 - 240' DRILLING MUD, 240 - 3' 80 SACKS OF CEMENT,
RATHOLE 10 SACKS OF CEMENT.

FROM	TO	DESCRIPTION	FROM	TO	DESCRIPTION
0	47	SURFACE HOLE	2185	2222	CYPRESS SAND
47	1559	SAND AND SHALE	2222	2244	LIME AND SHALE
1559	1642	LIME AND SHALE	2244	2260	U. PAINT CREEK LIME
1642	1687	M. MENARD LIME	2260	2281	LIME AND SHALE
1687	1708	SHALE	2281	2295	L. PAINT CREEK LIME
1708	1713	L. MENARD LIME	2295	2320	LIME & SHALE & SAND
1713	1781	SAND AND SHALE	2320	2373	BETHEL SAND
1781	1787	VIENNA LIME	2373	2412	U. RENAULT LIME
1787	1865	SHALE	2412	2420	SHALE AND LIME
1865	1928	GLEN DEAN LIME	2420	2426	L. RENAULT LIME
1928	2020	HARDINBURG SAND	2426	2620	LIME
2020	2035	LIME SHALE		2620	DRILLERS' TOTAL DEPTH
2035	2075	GOLCONDA LIME AND SHALE			
2075	2178	JACKSON SAND & LIME & SHALE			
2178	2185	BARLOW LIME			

TO THE BEST OF MY KNOWLEDGE, THIS IS A TRUE COPY OF THE DRILLERS' LOG ON
THE JAMES A. CLARY #3, 11-0-23, HENDERSON COUNTY, KENTUCKY.



KENDALL DRILLING COMPANY, INC.

Kendra L. Rakestraw
KENDRA L. RAKESTRAW

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION
BOX 690, LEXINGTON, KENTUCKY
40586



**AFFIDAVIT TO TIME AND MANNER
OF PLUGGING AND FILLING WELL
AS REQUIRED BY LAW**

(Type or Print)

Name and Address of Last Operator _____

HENDERSON 70705
WILLIAMS, FLOYD E DBA WILLIAMS, FLOYD E I
CLARY, JAMES A 3
11 0 23 1050 FNL 2100 FEL

Name and Address of Original Operator Who First Permitted and Drilled This W _____

Name and Address of Coal Operator _____

Permit No. 70705, Elevation 412.50 gr., County Henderson, Total Depth 2620

Carter Coordinates 1050 FNL 2100 FEL 11, Letter 0, Number 23

Farm Owner (Lessor) James A. Clary Well Number 3

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the Well Operator and the third copy to be mailed by registered mail to each Coal Operator named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY, Henderson }
COUNTY OF _____ } ss:

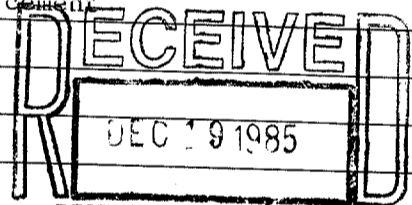
0063845004



Floyd E. Williams Equipment Company

Operator of the above captioned well does hereby swear that the plugging of said wells was completed according to instructions from the oil and gas inspector and according to Chapter 353 of the Kentucky Revised Statutes on November 26, 19 85, record of which is listed below or shown on the back of this form.

				(Plug Description)	
PLUGGED:	From <u>2620</u>	To <u>540</u>	With <u>drilling mud</u>		
	From <u>540</u>	To <u>440</u>	With <u>35 sks cement</u>		
	From <u>440</u>	To <u>240</u>	With <u>drilling mud</u>		
	From <u>240</u>	To <u>03</u>	With <u>80 sks cement</u>		
	From _____	To <u>Rathole</u>	With <u>10 sks cement</u>		
	From _____	To _____	With _____		
	From _____	To _____	With _____		
	From _____	To _____	With _____		



*WELL PLUGGED PER JIM BRYARS, STATE PLUGGER

Indicate below the size and interval of all casing left in the well and if and where it was shot off.

Casing Size 8-5/8", Interval 42.20 ft., Shot Off at n/a Bottom of Casing At 47.20 ft.

Casing Size _____, Interval _____, Shot Off At _____

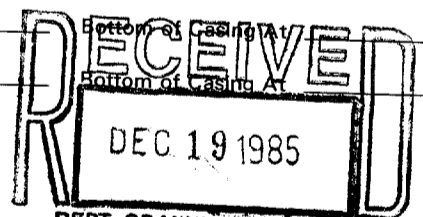
Casing Size _____, Interval _____, Shot Off At _____

If casing was NOT left in the well, indicate the bore hole size and interval.

Bore Hole Size _____ Interval _____

Bore Hole Size _____ Interval _____

State whether or not other steel or junk was left in the well and describe: nothing left in hole to our knowledge.



(Optional) Signature of Contractor responsible for above plugging _____
H & P OILWELL CEMENTERS
Title _____

(Required) Signature of Operator responsible for above plugging Floyd E. Williams
Floyd E. Williams Equipment Company; By Floyd E. Williams, President
Title _____

Sworn to and subscribed before me this 18th day of December, 19 85

[Signature]
Notary Public

My commission expires: March 31, 1987



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 2433-WF

Oil or Gas Well Gas
(Kind)

Company C. E. O'Neal & Co., etal
Address P. O. Box 276, Evansville, Ind.
Farm Leo King Acres
Location (waters) 17-0-24
Well No. 1 Elev. 413'
District County Henderson
Drilling Commenced November 27, 1951
Drilling Completed December 9, 1951
Name of Contractor C. E. O'Neal & Co.
Address of Contractor Box 276, Evansville, Ind.
Date Shot From To
With
Open flow /10ths Water in Inch
/10ths Merc. in Inch

Casing and Used in Left In Tubing Drilling Well
Size
16 Kind of Packer
13
10 Size of
8 1/4
6 5/8 Depth Set
5 3/16
3 Perf. top
2 Perf. bottom
Liners Used
Perf. top
Perf. bottom
Casing Cemented Size No. Ft. Date
10-3/4" 40.92' 11-28-51

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Surface soil			0'	18'			
Sand and shale, hard			18	47.50			
Sand			47.50	85			
Lime and shale			85	100			
Shale and shells			100	110			
Lime			110	113			
Shale and shells			113	210			
Coal			210	214			
Shale and shells			214	355			
Shale, sand and shells			355	390			
Shale			390	412			
Shale			412	450			
Shale, shaley sand and lime			450	655			
Shale			655	810			
Shaley sand and shale			810	860			
Shaley sand and lime			860	880			
Shale and shaley sand			880	945			
Shale			945	1020			
Sand			1020	1030			
Shaley sand			1030	1085			
Shaley sand			1085	1105			
Sand			1105	1145			
Shaley sand			1145	1180			
Sand			1180	1215			
Shale, shaley sand and lime			1215	1293			
Shale and sand			1293	1360			
Sand			1360	1470			
Sand			1470	1485			
Shale and shaley sand			1485	1500			
Shale			1500	1585			
Shale			1585	1615			
Lime and shale			1615	1658			
Shale			1658	1670			
Lime			1670	1676			
Shale			1676	1711			
Shale and shaley sand			1711	1731			
Shale			1731	1738			
Shale and shaley sand			1738	1742			
Lime (Vienna)			1742	1747			
Shale and sand			1747	1776			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Shale			1776'	1798'			
Shale and sandy shale			1798	1830			
Shale and sandy lime			1830	1860			
Lime and shale			1860	1881			
Shale and sand			1881	1887			
Shale and sand			1887	1898			
Shale			1898	1925			
Shale and sand			1925	1930			
Sand and shale			1930	1932			
Shale			1932	1954			
Sand and shale			1954	1979			
Shale and sand			1979	2014			
Lime and shale			2014	2045			
Shale			2045	2064			
Shale and lime			2064	2081			
Shale			2081	2106			
Lime (Barlow)			2106	2108			
Lime (Barlow)			2108	2112			
Shale			2112	2128			
Sand (Cypress)			2128	2171			
Lime			2171	2178			
Lime			2178	2194			
Shale and sand			2194	2208			
Sand			2208	2219			
Sand and shale			2219	2236			
Shale and sand			2236	2242			
Lime (Lower Pt. Creek)			2242	2253			
Lime (sandy)			2253	2264			
Shale			2264	2277			
Shale and shaley sand			2277	2311			
Lime			2311	2317			
Lime			2317	2345			
Lime and shale			2345	2358			
Shale			2358	2360			
Lime			2360	2389			
Lime			2389	2408			
Shale and sandy lime			2408	2422			
Lime and shale			2422	2448			
Lime			2448	2451			
Lime			2451	2494			
Dolomitic and oolitic			2494	2505			
Lime			2505	2549			
Lime (Dense)			2549	2559			
Lime (broken, odor)			2559	2573			
Lime (Dense)			2573	2582			
Lime			2582	2589			
Oolitic lime odor			2589	2605			
Lime (Dense)			2605	2607			
Oolitic lime, dolomitic			2607	2609			
Lime			2609	2612			
TOTAL DEPTH			2612				



Date December 10, 1951

APPROVED C. E. O'Neal & Company, Owner

By *Geo. B. Welch*
Geo. B. Welch, (Title) Partner.

Serial No. 22 (0-24)State _____ Co. Hen. Sec. 17 T. 0 R. 24 Pool _____Oper. Buchman & O'Neal Elev. 413 DF. _____ Gr. _____Farm L. King No. 1 TD. 2612 PB. _____

LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
Scout	1000 S	350 E	S		Prov. Ls.		Schlum.
Farm					No. 11 Coal		2612
L.&S.	8500 S	8750 W	Q		No. 9 Coal		
					Mansfield		
					Penn. Sd.		
					B. Penn.		
Comm.	11-21-51	Comp.			Biehl		
Remarks:	Wildcat				Up. Kincaid		
	CASING RECORD				Lo. Kincaid		
	12"	10"	8"	5"	Degonia		
		32			Clore		
	SHOT-ACID RECORD				Palestine		
	Date	Qt.-Gal.	From	To	Up. Menard		
					Menard		1586-1646
					Lo. Menard		1662-1677
					Walt'burg		
					"		
I. P.	DRILLING RECORD				Vienna		1741-1748
	DATE				T. S. (Jett) ns		1798-
		Drill stem test			"		
		double packer			Up. G. D.		
		2522-2587			Lo. G. D.		1860-1889
		Open two hours			Hd. (Jones) w		1950-1969
		40 ft. slightly oil			"		
		cut mud			Golconda		1976-
		60 ft. salty mud			Jackson		
		120 ft. salt water			Barlow Ls.		2105-2112
		Bottom hole pressure			Cypress w		2127-2163
		1200 lbs.			"		
		Dry and abandoned			Up. Pt. Creek		2163-2194
					Lo. Pt. Creek		2244-2265
					Beth-Ben		
					Up. Renault		2311-2347
					Renault		2360-2379
					Aux Vases		
					"		
					St. Gen.		2448-
					O'hara-Rosi		
					Fredonia		
					McClosky w		2494-2506
					" sso		2524-2530
					" w&ps		2582-2585
					St. Louis McC. w		2585-2606
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

0067852004



FOR USE OF OIL AND GAS OPERATOR



98713

AFFIDAVIT TO TIME AND MANNER OF PLUGGING AND FILLING WELL

As Required by Law
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

Form with fields for Coal Operator or Owner, Name of Well Operator, Address, Well Location, Well No., and Farm.

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF ~~KENTUCKY~~ INDIANA

County of VANDERBURGH

ss:

J. H. Collins and Geo. B. Welch

being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by C. E. O'Neal & Company, well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 9th day of December, 1951, and that the well was plugged and filled in the manner described in detail on the reverse side of this page.

From 2612' back to 240' Rotary mud. From 240' back to 185' Cement (25 bags).
From 185' back to 25' Rotary mud. From 25' back to 0' Cement (10 bags).

The work of plugging and filling said well was completed on the 9th day of December, 1951.

Handwritten signature of J. H. Collins

Sworn to and subscribed before me this 9th day of December, 1951.

Edna Bickwermer, Notary Public

My commission expires:

April 3, 1954.

0067852005



Serial No. 52 (0-23)

POOLE CONS

State _____ Co. Hen. Sec. 21 T. O R. 23 Pool Edwards Cons.Oper. Ashland, C. E. O'Neil, et al Elev. (L&S) 432 DF. _____ Gr. _____Farm T. Poole No. 1 TD. 2681 PB. _____

LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
Scout	3100 N	900 W		S	Prov. Ls.		Schlum.
Farm					No. 11 Coal		2683
L&S.					No. 9 Coal		
					Mansfield		
					Penn. Sd.		
					B. Penn.		
					Biehl		
Comm.	<u>11-11-51</u>			Comp.	Up. Kincaid	<u>1477-1496</u>	
Remarks:					Lo. Kincaid		<u>1472-</u>
					Degonia		
					Clore		
					Palestine		
					Up. Menard		
					Menard		<u>1660-</u>
					Lo. Menard		<u>1730-1736</u>
					Walt'burg		
					"		
					Vienna		<u>1804-1809</u>
					T. S. (Jett) v sso		<u>1876-</u>
					"		
					Up. G. D.		
					Lo. G. D.		<u>1933-</u>
					Hd. (Jones) v sso		<u>2018-</u>
					"		
					Golconda		<u>2058-</u>
					Jackson		
					Barlow Ls.		<u>2194-2198</u>
					Cypress ns		<u>2232-</u>
					"		
					Up. Pt. Creek		<u>2275-</u>
					Lo. Pt. Creek		<u>2334-</u>
					Beth-Ben ns		<u>2378-</u>
					Up. Renault		<u>2391-</u>
					Renault		
					Aux Vases		<u>2490-</u>
					"		
					St. Gen.		<u>2540-</u>
					O'hara-Rosi v sso		<u>2669-2681</u>
					Fredonia		
					McClosky		
					"		
					"		
					St. Louis		
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

0067975002





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

RECEIVED
NOV 30 1951
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

Permit No. 2392-WF

Company C. E. O'Neal & Co., P. O. Box 276
Address Evansville, Indiana.
Farm Turner Poole Acres
Location (waters) 21-0-33
Well No. 1 Elev. 432'
District County Henderson
Drilling Commenced November 11, 1951
Drilling Completed November 24, 1951
Name of Contractor C. E. O'Neal & Co.
Address of Contractor Same as above
Date Shot From To
With
Open flow /10ths Water in Inch
/10ths Merc. in Inch

Oil or Gas Well Oil
(Kind)
Casing and Used in Left In Tubing
Drilling Well

Size
16 Kind of Packer
13
10 Size of
8 1/4
6 5/8 Depth Set
5 3/16
3 Perf. top
2 Perf. bottom
Liners Used
Perf. top
Perf. bottom

Casing Cemented Size No. Ft. Date
10-3/4" 40.97' Nov. 12, 1951

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Surface soil			0'	10'			
Shale			10	25			
Sand rock and hd. sand			25	47.50			
Hd. sand			47.50	125			
Lime			125	150			
Shale, sdy shale, lime strks.			150	200			
Shale and lime strks.			200	360			
Sand			360	395			
Shale			395	450			
Shale and sandy shale			450	550			
Shale and sand			550	810			
Shale and sand			810	880			
Lime			880	888			
Shale and sand			888	1010			
Sand			1010	1060			
Sand			1060	1120			
Shale and sand			1120	1200			
Sand			1200	1290			
Shale and sandy shale			1290	1314			
Shale and shaley sand			1314	1425			
Sand			1425	1474			
Sand, shale and lime			1474	1475			
Lime (Kincaid)			1475	1496			
Shaley sand, lime			1496	1578			
shaley sand, lime			1578	1660			
Lime and shale			1660	1678			
Lime			1678	1680			
Lime			1680	1706			
Shale			1706	1730			
Lime			1730	1735			
Shale			1735	1764			
Shale			1764	1804			
Lime (Vienna)			1804	1810			
Shale, pyrite			1810	1825			
Shale			1825	1864			
Sand			1864	1869			
Hd. sand and lime			1869	1884			
Shale and sand			1884	1890			
Sand			1890	1906			
Sand			1906				

0067975003

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Lige			1930'	1941'			
Lime			1941	1946			
Shale			1946	1951			
Shale and sand			1951	1982			
sd., haed			1982	2015			
Sand			2015	2047			
sand			2047	2057			
Lime			2057	2070			
Shale and lime			2070	2100			
Shale and lime			2100	2110			
Shale			2110	2147			
Shale			2147	2152			
Lime (Barlow)			2152	2161			
Shale			2161	2175			
Shale and shaley sand			2175	2190			
Shale and shaley sand			2190	2194			
Lime (Barlow)			2194	2206			
Shale			2206	2233			
Sand (Cypress)			2233	2256			
Shale and sand (hd.)			2256	2271			
Shale and sand			2271	2276			
Lime			2276	2290			
Shale and sand			2290	2294			
Shale and sand			2294	2303			
Sand			2303	2311			
Shale and sand			2311	2335			
Lime			2335	2340			
Lime and shale			2340	2356			
Shale and shaley sand, lime			2356	2377			
Sand			2377	2391			
Lime			2391	2397			
Lime			2397	2416			
Shale and lime			2416	2437			
Shale and lime			2437	2463			
Lime			2463	2479			
Lime and chert			2479	2484			
Lime and shale			2484	2508			
Lime and shale			2508	2558			
Lime			2558	2605			
Lime			2605	2656			
Lime			2656	2681			
TOTAL	DEPTH		2681'				



Date..... November 28, 19 51

APPROVED..... C. E. O'Neal & Co., Owner

By Geo. B. Welch (Title) Partner

T. Poole

1

2

Ashland Oil & Refining Company

Henderson

LEASE

WELL NO.

TEST NO.

COMPANY

DISTRICT



OIL WELL CEMENTING COMPANY

LOCATION	21-0-23 DP #2392W.F.		Date		11-23-51	
FIELD	Wildcat		Ticket No.		10249	
COUNTY	Henderson		HOWCO District		Mt. Vernon	
STATE	Kentucky		Kind of Job		Open Hole	
CONTRACTOR	C.E. O'Neal & Company		Price		\$215.00	
MUD DATA			HOLE & TOOL DATA			
			Total Depth	2681'	Casing Perforations	Top Bottom
Kind	Howcogel		Top Packer Depth	2666'	Bottom Packer Depth	-
Weight	10.1	lbs.-gal.	Casing or Hole Size	8 3/4"	Liner or Bathole Size	-
Viscosity	38	Sec.	Formation Tested	McClosky		
Filter Loss	13	c. c. Filter Cake	Size Drill Pipe	4 1/2" API FH	Size Drill Collars	7" X 30.10'
BT. P.R.D. No.	256	Blanked Off No	Size Bottom Choke	1/2"	Size Surface Choke	2"
'6	Hr. Clock No.	1787	Size Tool Valve	1"	Size Pilot Valve	-
Est. Gauge Depth Temp.	100.0g		Size Hook Wall Packer	-	Size Rings	-
Pressure Readings	Field	Office Corrected	Size D. E. Wall Packer	7 1/4"	No. Packers	1
Initial Hydro Mud Pressure	1370	1364 p.s.i.	PRD Device No.	187	Blanked Off	Yes
Initial Flow Pres.	228	237 p.s.i.	Size & Length Anchor	4 1/2" FJ X 15'		
Tool Open	1 Hour		REMARKS: Tool opened with a good blow which decreased throughout the test. Recovered: 2310' salty sulphur water			
Final Flow Pres.	1065	1061 p.s.i.				
Time Closed In	15 Minutes					
Closed in Pres.	1203	1200 p.s.i.				
Final Hydro Mud Pressure	1355	1348 p.s.i.	Amount of Cushion	None		
			All depths measured from		R.D.B.	
					No. Folders Reproduced	
					4	



FOR USE OF OIL AND GAS OPERATOR



RECEIVED
NOV 27 1951



AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL

DEPT. OF MINES AND MINERALS
LEXINGTON, KY

As Required by Law
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS

P. O. Box 680
LEXINGTON, KENTUCKY

Oil and Gas Division

Coal Operator or Owner	C. E. O'Neal & Company
	Name of Well Operator
Address	P. O. Box 276
	Evansville 4, Indiana
	Complete Address
Coal Operator or Owner	21-0-23
	Well Location
Address	Henderson
	County
Coal Operator or Owner	Well No. 1
Address	Turner Poole
	Farm

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF ~~KENTUCKY~~ Indiana }
County of Vanderburgh } ss:

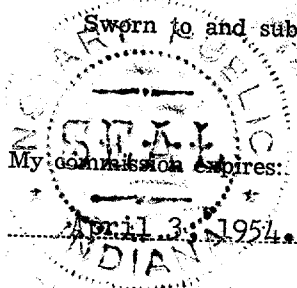
John P. Collins and Geo. B. Welch
being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by C. E. O'Neal & Company, well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 24th day of November, 1951, and that the well was plugged and filled in the manner described in detail on the reverse side of this page.

From 2681' back to 30' Rotary mud
from 30' back to 0' Cement (15 bags)

The work of plugging and filling said well was completed on the 24th day of November, 1951.

John P. Collins
Geo. B. Welch

Edna Bickwermert
Edna Bickwermert, Notary Public



Sworn to and subscribed before me this 28th day of November, 1951.

Serial No. _____

State _____ Co. W.V. Sec. 15 T. 0 R. 24 Pool _____Oper. Eagle & Holder Elev. (L.S.) 49407 DF. 409 Gr. _____Farm J. E. Denton No. 1(2) TD 2660 PB. _____

LOCATION					TOP	DRILLER OR SAMPLE	
Scout Farm	<u>1160 S</u>	<u>1000 W</u>	<u>S</u>		Prov. Ls.		<u>2659</u>
L.&S.					No. 11 Coal		
					No. 9 Coal		
					Mansfield		
					Penn. Sd.		
Comm. <u>5-5-55</u>					B. Penn.		
Comp. <u>19 MAY '55</u>					Biehl		
Remarks: <u>Wildcat</u>					Up. Kincaid		
CASING RECORD					Lo. Kincaid	<u>1450-75</u>	<u>1449-74</u>
12"	10"	8"	6"	5"	Degonia		
	<u>35</u>				Clore		
SHOT-ACID RECORD					Palestine	<u>50 1595-1605</u>	<u>550 1592-1609</u>
Date	Qt.-Gal.	From	To		Up. Menard		
					Menard	<u>1639-</u>	<u>1637-1704</u>
					Lo. Menard	<u>1729-25</u>	<u>1727-313</u>
					Walt'burg		
					"		
I. P.					Vienna	<u>1802-09</u>	<u>1800-08</u>
DATE	DRILLING RECORD				T. S. (Jett)	<u>NS</u>	<u>1890-98</u>
	<u>MIR</u>				"		
	<u>DST 1595-1605</u>				Up. G. D.		
	<u>2. 25' OCSM</u>				Lo. G. D.	<u>1930-46</u>	<u>1927-44</u>
	<u>180' SW</u>				Hd. (Jones)		
	<u>BHP 632 #</u>				"		
	<u>02321</u>				Golconda		<u>2052-</u>
	<u>DST 2500-11</u>				Jackson		
	<u>72 mps. 6420'</u>				Barlow Ls.	<u>2196-2201</u>	<u>2190-99</u>
	<u>35' OCSM</u>				Cypress		
	<u>BHP 105 #</u>				"		
					Up. Pt. Creek		<u>2256-70</u>
					Pt. Creek Sd.		
					Lo. Pt. Creek		
					Beth-Ben		
					Up. Renault		<u>2353-96</u>
					Renault		<u>2406-50</u>
					Aux Vases	<u>550</u>	<u>2466-70</u>
					"		
					St. Gen.		<u>2499-</u>
					O'hara-Rosi	<u>550</u>	<u>2503-10</u>
					Fredonia		
					McClosky	<u>NS</u>	<u>2547-65</u>
					"		
					St. Louis		
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

0088076001



PLAT SHOWING

CLARENCE WOOD - LEASE

135.2 AC.

J. ELLIOTT DENTON - FEE

SECTION - 11

O-23

SECTIONS - 15 & 16

O-24

HENDERSON COUNTY, KENTUCKY
SCALE: 1"=400'
OCT 7, 1952

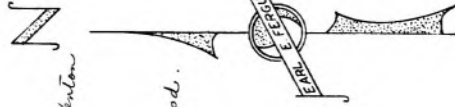
Permit no. 4191-WF.

Dawn - J. Elliott Denton

No. 1

150-24

Open - Clarence Wood.



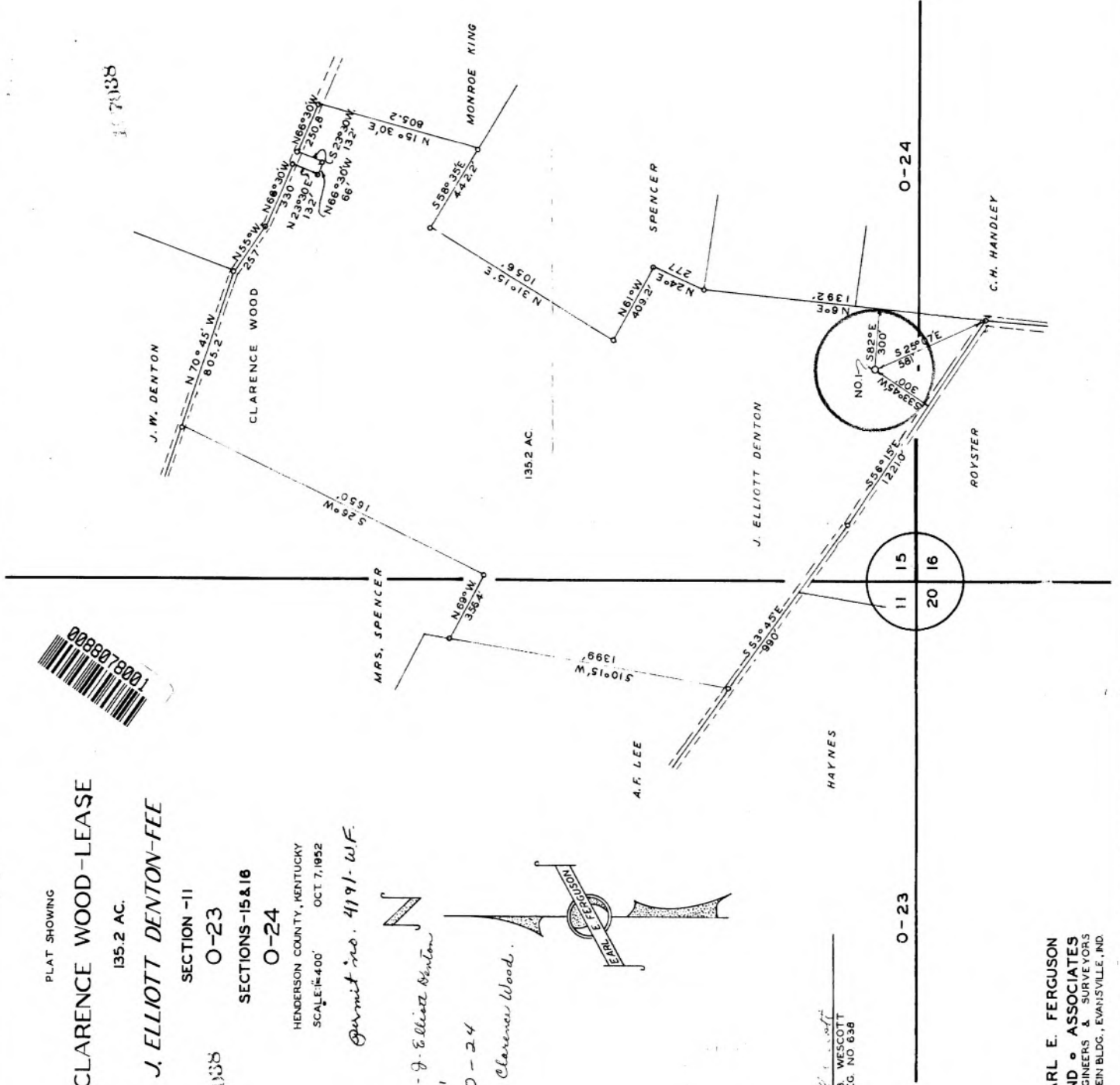
E. B. WESCOTT
M. REG. NO. 638

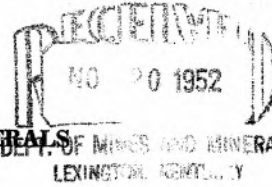
EARL E. FERGUSON
AND ASSOCIATES
ENGINEERS & SURVEYORS
GREEN BLDG., EVANSVILLE, IND.

NO. 1191



107838





COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 4191 WF

Oil or Gas Well Dry Hole
(Kind)

Company Clarence Wood Oil Company
Address 419 Court Bldg., Evansville, Ind.
Farm J. Elliott Denton Acres 20
Location (waters) approx. SE SW SW
Well No. 1 Elev. 416 (est)
District 15-0-24 County Henderson
Drilling Commenced November 4, 1952
Drilling Completed November 16, 1952
Name of Contractor Sallee Drilling Company
Address of Contractor 4000 Washington Ave.,
Evansville, Indiana
Date Shot From To
With _____
Open flow /10ths Water in Inch
/10ths Merc. in Inch

Casing and Used in Left In Tubing
Drilling Well

Size	Kind of Packer
16	
13	
10	<u>57 1/2'</u>
8 1/4	
6 5/8	Depth Set
5 3/16	
3	Perf. top
2	Perf. bottom
Liners Used	
	Perf. top
	Perf. bottom

Casing Cemented Size No. Ft. Date.

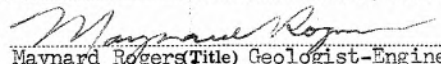
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
L Kincaid						1454-80	
Menard						1643-1707	
L Menard						1729-45	
Vienna						1804-10	
Glenn Dean						1940-55	
Hardinsburg						1956-68	
Barlow						2194-98	
Cypress						2199-2208	
Paint Creek						2260-69	
Ethel						2327-43	
U Renault						2362-2402	
L Renault						2411-82	
St. Genevieve						2505-2610	
O'Hara					Show of oil	2509-19	
					Dry Hole		
					Total Depth	2610	

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks

0088078003


Date..... November 18, 19 52

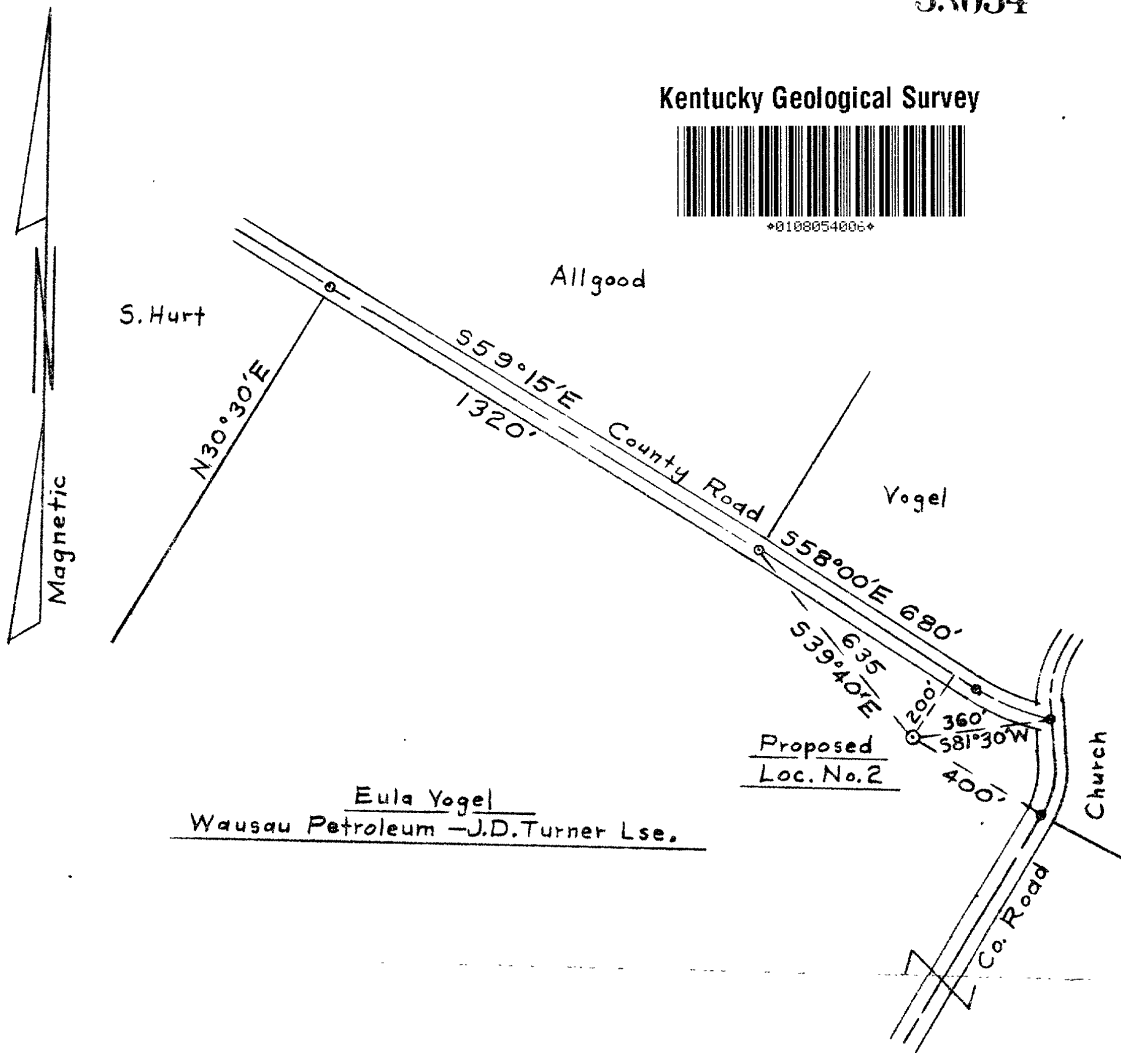
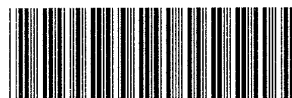
APPROVED..... Clarence Wood Oil Company, Owner

By 
 Maynard Rogers (Title) Geologist-Engineer

WELL LOCATION PLAT

33034

Kentucky Geological Survey



Eula Vogel
Wausau Petroleum - J.D. Turner Lse.

CARTER COORDINATE

11-0-23 Scale 1" = 2000'

USGS Topo.

© 1150'
550'

Operator Wausau Pet.-J. D. Turner

Farm Eula Vogel

Well No. 2 Elevation 409-Gr.

County Henderson Kentucky

Date 5-4-59 Scale 1"=400'

Engineer F. E. Moran

Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 236 - W9

Oil or Gas Well **Dry hole**
(Kind)

Company **Hausau Petroleum Corporation** Casing and Used in Left In Tubing
Address **Evansville, Indiana** Drilling Well
Farm **Fogel** Acres **130** Size
Location (waters) **11-0-23** Kind of Packer
Well No. **2** Elev. **411 D.F.** 16
District _____ County **Henderson** 13
Drilling Commenced **5-7-59** 10
Drilling Completed **5-12-59** 8 1/4
Name of Contractor **Big 7 Drilling Co.** 6
Address of Contractor **Evansville, Ind.** 5 3/16
Date Shot _____ From _____ To _____ 3
With _____ 2
Open flow _____ /10ths Water in **none** Inch Casing Cemented _____ Size **10-3/4" 41** No. Ft. Date **5-7-59**
/10ths Merc. in _____ Inch

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Soil	brown		0	15			
Sand rock	brown	soft		38			
Shale & shells/black Shale &	black	soft		355	coal	163-65	Questionable
Sandy shale	black	soft		398			
Shale	Black	soft		572	coal	398-401	
Sand	white	hard		705	water		
Shale	black	soft		894			
Sand	white	soft		1205	water		
Shale	gray	soft		1270			
Sand	white	hard		1303	water		
Shale	black	soft		1407			
Sand	white	soft		1512	water		
Shale & lime streaks	black	hard		1646			
Lime	gray	hard		1674			M. Menard
Shale	black	hard		1714			
Lime	gray	hard		1722			L. Menard
Shale	black	hard		1788			
Lime	brown	hard		1794			Vienna
Shale	black	hard		1854			
Broken sand	white	hard		1914	water		L. Jett
Lime	gray	hard		1936			Glen Dean
Sand	white	hard		1994	water		Hardinsburg
Shale	gray	hard		2026			
Lime & shale	white	hard		2082			Colconda
Shale	black	hard		2186			
Lime	gray	hard		2192			Barlow
Sand	white	soft		2226	water		Cypress
Shale	black	hard		2258			
Lime	white	hard		2272			U. Pt. Creek
Sand & shales/black	black	hard		2368			
Lime	gray	hard		2332			L. Pt. Creek
Sandy shale	black	hard		2364			
Lime	gray	hard		2409			U. Renault
Lime	pink	hard		2472			L. Renault
Lime	gray	hard		2484			Upper "A" zone
Shale	black	hard		2506			
Lime	Gray	Hard		2522	water		Lower "A" gone
Dolomite	white	hard		2525			
T.D.				2525			

No shows, no cores, no tests. (Plugged)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks

Kentucky Geological Survey



Date 6 - 9, 19 59

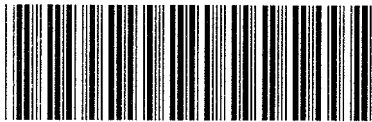
APPROVED Wamsan Petroleum Corp. Owner

By Leon Krause, V.P.
(Title)

Serial No. _____
 State Co. Hend. Sec. 11 T. O R. 23 Pool Podé Cons.
 Oper. Wansau Pet. - J. D. Turner Elev. _____ DF. 411 Gr. _____
 Farm Eula Vogell No. 2 TD. 2525 PB. _____

OT	LOCATION					TOP	DRILLER OR SAMPLE	\$ ELEC.	
Scout	600 N	50 E			S	Prov. Ls.		2523	
Farm						No. 11 Coal			
L.&S.						No. 9 Coal			
						Mansfield			
						Penn. Sd.			
Comm.	5-5-59					B. Penn.			
Remarks:	Comp. MAY 14 1959					Biehl			
	CASING RECORD					Up. Kincaid			
	12"	10"	8"	6"	5"	Lo. Kincaid			
		41				Degonia			
	SHOT-ACID RECORD					Clare			
	Date	Qt.-Gal.	From	To		Palestine			
						Up. Menard			
						Menard		1626-84	
						Lo. Menard		1714-22	
						Walt'burg			
I. P.						"			
	DATE	DRILLING RECORD					Vienna		1788-93
	MAY 7 1959	ø 150					T. S. (Jett)		
		no data on 65					"		
							Up. G. D.		
							Lo. G. D.		1913-35
							Hd. (Jones)		
							"		
							Golconda		
							Jackson		
							Barlow Ls.		
							Cypress		
							"		
							Up. Pt. Creek		
							Pt. Creek Sd.		
							Lo. Pt. Creek		
							Beth-Ben		
							Up. Renault		2363-2404
							Renault		2410-68
							Aux Vases		
							"		
							St. Gen.		
							O'hara-Rosi		
							Fredonia		
							McClosky		VSSO 2510-20
							"		
							"		
							St. Louis		
							Chatt		
							Dev. Ls.		
							Silurian		
							Trenton		
							St. Peter		

Kentucky Geological Survey



D & A

BIG SEVEN DRILLING COMPANY

WRIGHT BUILDING
EVANSVILLE, INDIANAJ. D. TURNER
ELIZABETH L. TURNERDRILLER'S LOG

Well Name: Wausau Petroleum Corporation - J. D. Turner Eula Vogel No. 2
 Location: Section 11-0-23, Henderson County, Kentucky
 Date Commenced: May 5, 1959
 Date Completed: May 12, 1959
 Surface Casing: 43' 10 3/4" surface casing at 41' with 50 sacks cement
 Plugging Data: 2525 to 2465-20 sacks cement. 2465 to 450'- mud 450' to 350'-
 25 sacks. 350' to 200' mud 200' to 125'-25 sacks 125 to 40'-
 mud 40' to 0 - 20 sacks completed.

FROM	TO	FORMATION
0	41	Surface
41	155	sand, shale and coal
155	520	shale, sand and lime
520	945	sand, shale, lime shale
945	1115	shaley sand and sand
1115	1330	sand and shaley sand
1330	1505	sand
1505	1626	Hard sand and shale
1626	1635	Lime, Menard
1635	1717	Lime and shale
1717	1722	Little Menard
1722	1787	shale, sand and shale
1787	1794	Vienna
1795	1832	shale and sand
1832	1885	T. Springs
1885	1923	sand, shale and sandy lime
1923	1930	sand and sandy lime
1930	1937	lime and G. Dean
1937	2020	sand and shale
2020	2073	shale and sandy lime
2073	2084	Golconda Lime
2084	2090	shale and sand
2090	2126	lime and shale
2126	2171	shale, sand and lime
2171	2189	Shaley sand and shale
2189	2192	Barlow Lime
2192	2235	shale and sand
2235	2310	shale, lime and sand
2310	2335	Lower P. Creek
2335	2364	sand
2364	2369	Renault
2370	2397	lime Renault
2397	2415	lime and shale
2415	2473	lime and shale
2473	2525	Lime and Shale
T.D.	2525	

To the best of my knowledge, the foregoing is a full, true and complete copy of the Driller's Log on Wausau Petroleum Corporation - J. D. Turner, Bula Vogel No. 2, Henderson County, Kentucky.

BIG SEVEN DRILLING COMPANY

By *Burtis W. Cloud*
Burtis W. Cloud

STATE OF INDIANA }
COUNTY OF VANDERBURGH } ss:

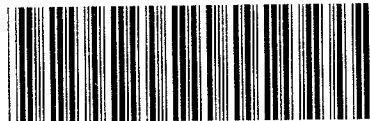
Subscribed and sworn to before me this 4 day of June, 1959.

Frances A. Wyatt
Frances A. Wyatt, Notary Public

My Commission Expires

August 14, 1961

Kentucky Geological Survey



0108854011

Handwritten marks

327A

WELL LOCATION PLAT

HENDERSON

Per. # 711-18

F. Roystar

16-0-24

Record No: 108107 Permit No: 711W8

Farm Name: PURYEAR, M F

Well No: 1

Operator: EGAN, THOMAS M

Location: 2910 FSL x 610 FEL 20- 0-23

County: HENDERSON Elevation: 406

THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT THE ACCURACY OF INFORMATION ON THIS DOCUMENT

O. W. Spencer

Loc. No 1

Magnetic

N 19° 07' E

2910'

1270'

1115'

S 10° 04' E

N 40° 07' E

S 75° 53' E
330'

Proposed
Loc No 1

1230'

N 30° 00' E
S 19° 07' W
To south line

M. E. PURYEAR
T. M. EGAN L.S.C.

CARTER COORDINATE

16-0-24 Scale 1" = 2000'

Carter

3800' F.M.L.

Operator T. M. Egan

Farm M. F. Puryear

Well No. 1 Elevation 406

County Henderson Kentucky

Date 10-24-58 Scale 1"=200'

Engineer F. E. Moran

Address P. O. Box 663, Owensboro, Kentucky

G. S. Powell

I hereby certify that the above plat is correct to the best of my knowledge and belief.

[Signature]

Registered Engineer No. 1961

Serial No. 20 0 23
 State Co. Hend. Sec. T. R. Pool K
 Oper. T. M. Egan Elev. _____ DF. 406 Gr.
 Farm Puryear No. 1 TD. 2610 PB. _____

LOCATION					TOP	DRILLER OR SAMPLE	\$ ELEC.
Scout 3500 N 050 W S					Prov. Is.		
Farm					No. 11 Coal		
L.&S. <u>9000 S 300E 0</u>					No. 9 Coal		
					Mansfield		
					Penn. Sd.		
Comm. <u>12-4-58</u> Comp. <u>18 DEC 58</u>					B. Penn.		
Remarks: <u>st.</u>					Biehl		
CASING RECORD					Up. Kincaid		
12"	10"	8" ⁹	6"	5"	Lo. Kincaid		<u>1446-73</u>
					Degonia		
					Clore		
					Palestine		
					Up. Menard		
					Menard		<u>1639-88</u>
					Lo. Menard		<u>1709-14</u>
					Walt'burg		<u>1740-50</u>
					"		
I. P.					Vienna		<u>1782-87</u>
DATE	DRILLING RECORD				T. S. (Jett)		<u>1810-24</u>
<u>4 DEC 58</u>	<u>Pita</u>				Up. G. D.		
	<u>Ø 2209</u>				Lo. G. D.		<u>1911-26</u>
	<u>no data on 1/2.</u>				Hd. (Jones)		<u>brkn. shly 1929-2032</u>
					"		
					Golconda	<u>2034-</u>	<u>2035-89</u>
					Jackson	<u>shly. NS 2121-48</u>	<u>2126-40</u>
					Barlow Ls.		<u>2171-79</u>
					Cypress		<u>2205-28</u>
					"		
					Up. Pt. Creek		
					Pt. Creek Sd.		
					Lo. Pt. Creek		
					Beth-Ben		
					Up. Renault		<u>2350-</u>
					Renault		
					Aux Vases		
					"		
					St. Gen.		<u>2463-</u>
					O'hara		<u>2466-74</u>
					Fredonia		
					McClosky		<u>2550-64</u>
					"		
					St. Louis		
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

Record No: 108107 Permit No: 711W8
 Farm Name: PURYEAR, N F
 Well No: 1
 Operator: EGAN, THOMAS M
 Location: 2910 FSL x 610 FEL 20- 0-23
 County: HENDERSON Elevation: 406

THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT THE ACCURACY OF INFORMATION ON THIS DOCUMENT

WELL NAME: T. M. Egan - Puryear #1
 LOCATION: 16-0-24, Henderson Co., Ky.
 DRILLING COMMENCED: December 3, 1958
 DRILLING COMPLETED: December 13, 1958
 PERMIT NO.: 711-W8

DRILLER'S WELL RECORD

SCHLUMBERGER TOPS:

See Schlumberger Electric Log attached
 Total Depth - 2609' D&A

CASING RECORD

59' of 8-5/8" surface casing cemented w/60 sacks

CORE RECORD

None

Record No: 108107 Permit No: 711W8
 Farm Name: PURYEAR, M F
 Well No: 1
 Operator: EGAN, THOMAS M

DRILL STEM TEST

None

Location: 2910 FSL x 610 FEL 20- 0-23
 County: HENDERSON Elevation: 406
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT

ELECTRIC LOG RECORD

Schlumberger Electric Log to Total Depth 2609'
 Driller's Total Depth 2610'

PLUGGING RECORD

7-7/8" hole

2609 - 564 Drilling mud
 564 - 490 25 sacks cement
 490 - 380 Drilling mud
 380 - 295 25 sacks cement
 295 - 256 Drilling mud
 256 - 181 25 sacks cement
 181 - 0 Left unplugged at 181' below surface
 at request landowner for converting
 same for fresh water purposes

STATE OF INDIANA)
) SS:
 COUNTY OF VANDERBURGH)

I hereby certify that the above is a true and correct copy of the Driller's Record in connection with the above captioned well.

V-T DRILLING COMPANY
 CONTRACTORS

By E. C. Robinson
 E. C. Robinson, Office Manager

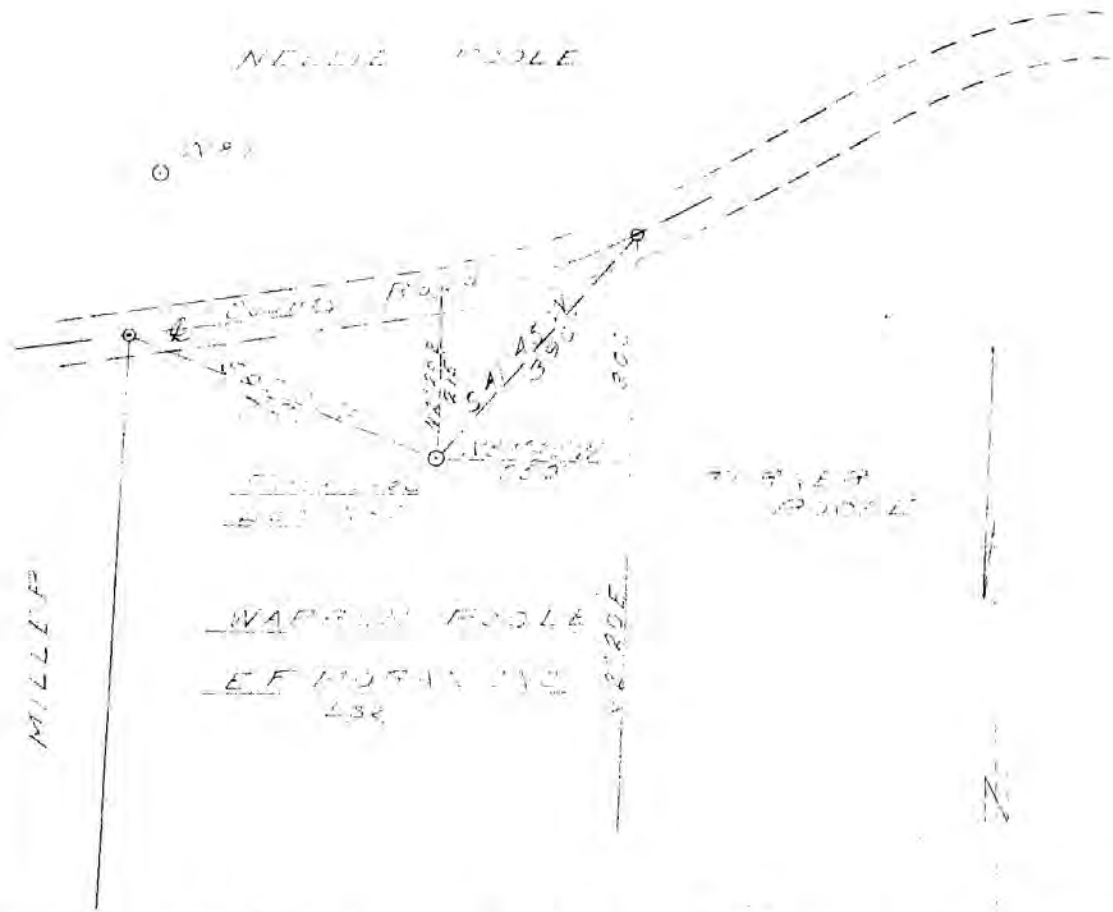
STATE OF INDIANA)
) SS:
 COUNTY OF VANDERBURGH)

Subscribed and sworn to before me this 9th day of January, 1959.

Dorothy Rice
 Notary Public

WELL LOCATION PLAT

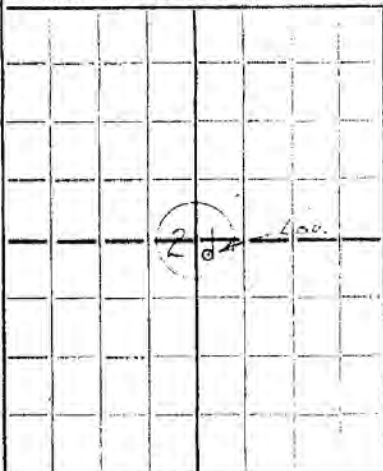
14826



Record No: 108148 Permit No: 461BWF
 Farm Name: POOLE, WARREN
 Well No: 1
 Operator: E F MORAN, INC
 Location: 2450 FSL x 2250 FEL 21- D-23
 County: HENDERSON Elevation: 431
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT

CARTER COORDINATE

21-1-23 Scale 1" = 2000'



Operator E. F. Moran, Inc
 Farm Warren Poole
 Well No. 1 Elevation 430-431
 County Henderson Kentucky
 Date 1-1-61 Scale 1"=2000'
 Engineer E. F. Moran
 Address 501 1/2 S. 1st St. Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

E. F. Moran

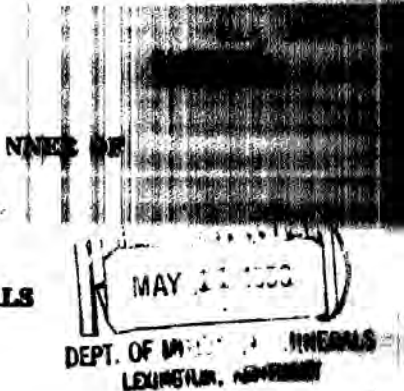
Registered Engineer No. 1961

Serial No. _____
 State _____ Co. Hew. Sec. 21 T. 0 R. 23 Pool Poole Cons.
 Oper. E. F. Moran Inc. Elev. 431 DF. _____ Gr. _____
 Farm W. Poole No. 1 TD 2653 PB. _____

LOCATION					TOP	DRILLER OR SAMPLE
Scout <u>2800 S 2250 E S</u>					Prov. Ls.	<u>2653</u>
Farm _____					No. 11 Coal	
L&S. _____					No. 9 Coal	
					Mansfield	
					Penn. Sd.	
Comm. <u>4-17-53</u> Cont. <u>MAY 6 1953</u>					B. Penn.	
Remarks: _____					Biehl	
CASING RECORD					Up. Kincaid	
12"	10"	8"	6"	5"	Lo. Kincaid	<u>1470-94</u>
	<u>113</u>				Degonia	
SHOT-ACID RECORD					Clore	
Date	Qt.-Gal.	From	To		Palestine	
					Up. Menard	
					Menard	
					Lo. Menard	<u>1724-41</u>
					Walt'burg	
I. P.					"	
DATE	DRILLING RECORD				Vienna	<u>1806-12</u>
	<u>Ø 1981</u>				T. S. (Jett)	
	<u>SD 2609</u>				"	
	<u>DST 2570-2653</u>				Up. G. D.	
	<u>1 1200' SW</u>				Lo. G. D.	<u>1944-64</u>
	<u>BHP 825#</u>				Hd. (Jones)	<u>EEO 2001-08</u>
	<u>DST DP 1995-2014</u>				"	
	<u>2 30' OCM</u>				Golconda	
	<u>180' M</u>				Jackson	
					Barlow Ls.	<u>2195-2000</u>
					Cypress	<u>NS 2223-45</u>
					"	
					Up. Pt. Creek	
					Lo. Pt. Creek	<u>2325-43</u>
					Beth-Ben	<u>NS 2363-83</u>
					Up. Renault	
					Renault	<u>2383-97</u>
					Aux Vases	<u>2451-59</u>
					"	
					St. Gen.	<u>2495-</u>
					O'hara-Rost	
					Fredonia	<u>2537-</u>
					McClosky	<u>NS 2578-82</u>
					"	<u>" 2585-99</u>
					"	
					St. Louis	
					Chatt	
					Dev. Ls.	
					Silurian	
					Trenton	
					St. Peter	

Record No: 108148 Permit No: 4618WF
 Farm Name: POOLE, WARREN
 Well No: 1
 Operator: E F MORAN, INC
 Location: 2450 FSL x 2250 FEL 21- 0-23
 County: HENDERSON Elevation: 431
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT

Record No: 108148 Permit No: 461BWF
 Farm Name: POOLE, WARREN
 Well No: 1
 Operator: E F MORAN, INC
 Location: 2450 FSL x 2250 FEL 21- D-23
 County: HENDERSON Elevation: 431
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT



As Required by Law
 COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF MINES AND MINERALS

P. O. Box 689
 LEXINGTON, KY.

Oil and Gas Division

NONE
 Coal Operator or Owner

E. F. Moran, Inc.
 Name of Well Operator

502 Old National Bank Bldg.
Evansville 16, Indiana
 Complete Address

21-0-23
 Well Location

Henderson
 County

1
 Well No.

Warren Poole
 Farm

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF ~~KENTUCKY~~, INDIANA
 County of VANDERBURGH

P. H. Brandenstein and Mr. Christian
 being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by E. F. Moran, Inc. well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 1st day of May, 1953, and that the well was plugged and filled in the following manner:

Manner in which sand was plugged:	2653	to	610	Rotary mud
	610	to	545	25 Sax Cement
	545	to	280	Rotary mud
	280	to	74	80 Sax Cement
Manner in which coal was plugged:	74	to	40	Rotary mud
	40	to	0	20 Sax Cement

Description of monument:
 (The above description must be in detail and in accordance with the law.)
 and that the work of plugging and filling said well was completed on the 1st day of May, 1953

By: E. F. Moran, Inc.
Paul Brandenstein

Sworn to and subscribed before me this 7th day of May, 1953
Notary Public

My commission expires:
October 1, 1955

100000

PROPOSING AND ISSUING WELL RECORD

Proposed Well No. 1

Drilled under Permit No. 4618 - WF

E. F. Moran, Inc.
Oil and Gas Operator

Farm WARTEN POOLE

County Henderson

Record No: 108148 Permit No: 4618WF
 Farm Name: POOLE, WARREN
 Well No: 1
 Operator: E F MORAN, INC
 Location: 2450 FSL x 2250 FEL 21-0-23
 County: HENDERSON Elevation: 431
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT

WELL LOCATION PLAT

NELLIE POOLE
J.B. DRILLING CO. Inc ETAL

81100

Proposed
Loc N-1

Section No: 17518, Range 1, Sec 15, T55R5E
Farm Name: NELLIE POOLE
Well No: 1
Operator: J. B. DRILLING CO. Inc
Location: 1/2 Mile NE of
Warren Pools, Henderson Co., Ky.
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

Magnetic



N-1
E.F. Moran

Per. # 7818-WA
21-0-23

Denton

Miller

Warren Pools Turner Pools

CARTER COORDINATE
21-0-23 Scale 1" = 2000'

Operator J.B. Drilling Co. etal
Farm Nellie Poole
Well No. 1 Elevation 415 Cr.
County Henderson Kentucky
Date 6-10-50 Scale 1" = 2000'
Engineer P. E. Moran
Address P. O. Box 603, Owensboro, Ky.

23

I hereby certify that the above plat is correct to the best of my knowledge and belief.

[Signature]

Registered Engineer No. 1061

OK

Serial No. _____
 State Co. Hen. Sec. 21 T. 0 R. 23 Pool Pool Cons.
 Oper. J. B. Co. Elev. _____ DF. 415 Gr.
 Farm N. Poole No. 1 TD. 2545 PB.

LOCATION					TOP	DRILLER OR SAMPLE	DEPT.
Scout	<u>1500 N 1900 E S</u>				Prov. Ls.		<u>5584</u>
Farm					No. 11 Coal		
L.&S.					No. 9 Coal		
					Mansfield		
					Penn. Sd.		
Comm.	<u>6-18-56</u> Comp. <u>28 JUN '56</u>				B. Penn.		
Remarks:					Biehl		
	CASING RECORD				Up. Kincaid		
	12"	10"	8"	6"	Lo. Kincaid		
		<u>44</u>			Degonia		
	SHOT-ACID RECORD				Clare		
	Date	Qt.-Gal.	From	To	Palestine		
					Up. Menard		
					Menard		<u>1624-88</u>
I. P.					Lo. Menard		<u>1711-19</u>
	DATE	DRILLING RECORD			Walt'burg		
		<u>6/50</u>			"		
		<u>DST 2313-41</u>			Vienna		<u>1787-94</u>
		<u>1/2 @ 120'</u>			T. S. (Jett)		
		<u>30' @ 550</u>			"		
		<u>BHP 96#</u>			Up. G. D.		
					Lo. G. D.		<u>1914-26</u>
					Hd. (Jones)		
					"		
					Golconda		<u>2035-</u>
					Jackson		
					Barlow Ls.		<u>2170-78</u>
					Cypress		<u>NS 2204-</u>
					"		
					Up. Pt. Creek		
					Pt. Creek Sd.		
					Lo. Pt. Creek		<u>2304-17</u>
					Beth-Ben		<u>550 2334-52</u>
					Up. Renault		
					Renault		<u>2366-90</u>
					Aux Vases		
					"		
					St. Gen.		<u>? 2410-</u>
					O'hara-Rosl		
					Fredonia		
					McClosky		<u>ccc 2540-60</u>
					"		
					"		
					St. Louis		
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

Record No: 108156 Permit No: 7818WF
 Farm Name: POOLE, NELLIE
 Well No: 1
 Operator: J B DRILLING CO, INC
 Location: 1900 FNL x 2335 FEL 21- 0-23
 County: HENDERSON Elevation: 415
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
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FOR USE OF OIL AND GAS OPERATOR

81142



AFFIDAVIT TO TIME AND MANNER OF PLUGGING AND FILLING WELL

As Required by Law
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

Nellie Poole
Coal Operator or Owner
Route #2
Robards, Ky.
Address

J - B Drilling Co., Inc.
Name of Well Operator
Meyers Building
Henderson, Kentucky
Complete Address

Coal Operator or Owner
Address

21 - 0 - 23
Well Location
19 56

Henderson
County

Coal Operator or Owner
Address

Well No. # - 1

Nellie Poole
Farm

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,

County of

J-B DRILLING CO., INC.
BOX 205 - PHONE 3768
HENDERSON, KENTUCKY
and J - B Drilling Co., Inc.

being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by SAME, well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 26th day of June, 1956, and that the well was plugged and filled in the manner described in detail on the reverse side of this page.

The work of plugging and filling said well was completed on the 26th day of June, 1956.

Sworn to and subscribed before me this 27th day of June, 1956.

[Signature]
Notary Public

My commission expires:
Notary Public, Henderson County, Ky.
My Commission Expires Feb. 11, 1959

Record No: 108156 Permit No: 7818WF
Farm Name: POOLE, NELLIE
Well No: 1
Operator: J B DRILLING CO, INC
Location: 1900 FNL x 2335 FEL 21- 0-23
County: HENDERSON Elevation: 415

THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT THE ACCURACY OF INFORMATION ON THIS DOCUMENT

RECEIVED
JUN 29 1956

DEPARTMENT OF MINES AND MINERALS
LEXINGTON, KENTUCKY

81142

MANNER IN WHICH PLUGGED

2565	-	330	-	Mud
330	-	248	-	Cement
248	-	225	-	Mud
225	-	143	-	Cement
143	-	20	-	Mud
20	-	0	-	Cement

Record No: 108156 Permit No: 7818WF
Farm Name: POOLE, NELLIE
Well No: 1
Operator: J B DRILLING CO, INC
Location: 1900 FNL x 2335 FEL 21- 0-23
County: HENDERSON Elevation: 415
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

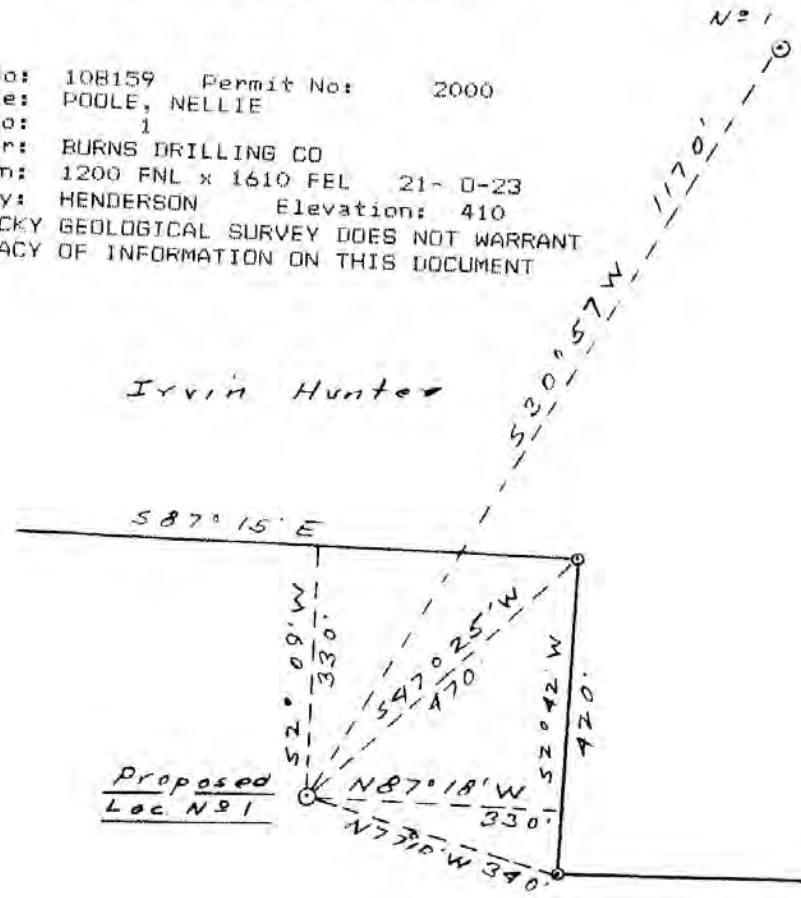
WELL LOCATION PLAT

19015

F. E. MORAN ENGINEERING

Record No: 108159 Permit No: 2000
 Farm Name: POOLE, NELLIE
 Well No: 1
 Operator: BURNS DRILLING CO
 Location: 1200 FNL x 1610 FEL 21-0-23
 County: HENDERSON Elevation: 410
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT

Magnetic



Irvin Hunter

Proposed Loc N91

NELLIE POOLE
BURNS DRLG CO. & FRANK WOLTER ASSOC. LSC.

NE 1/4 SEBREE
 CARTER COORDINATE
21-0-23 Scale 1" = 200'
 U S G S Topo

1200 FNL X
 1675-FEL
 0.200
 1675'

Operator Burns Drlg. Co. & Frank Wolter Assoc.
 Farm Nellie Poole
 Well No. 1 Elevation 410 Gr. Transit
 County Henderson Kentucky
 Date 12-17-60 Scale 1"=200'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Ky.

I hereby certify that the above plat is correct to the best of my knowledge and belief.


 Registered Engineer No. 1961

21-0-23

PHONE
Greenleaf 7-5308

BURNS DRILLING COMPANY
ROTARY CONTRACTORS
SUITE 3, 2709 WASHINGTON AVE.
EVANSVILLE, INDIANA

No. 92
Rig #1
Kentucky

AMOUNT

Nellie Poole No. 1
Formation Record

Surface sand and shale	0- 80	80
Shale and lime	80- 100	20
Coal	100- 105	5
Shale and lime	105- 245	140
Sand and shale	245- 845	600
Sand	845-1225	380
Shale and sand	1225-1436	211
Lime-Kincaid	1436-1464	28
Shale and sand	1464-1615	151
Lime-Menard	1615-1679	64
Shale	1679-1705	26
Lime-Menard	1705-1720	15
Shale and sand	1720-1777	57
Lime-Vienna	1777-1782	5
Shale and sand	1782-1908	126
Lime and shale-G.O.	1908-1926	18
Sand and shale	1926-1970	44
Sand	1970-2027	57
Lime and shale	2027-2042	15
Shale and lime	2042-2169	127
Lime-Barlow	2169-2173	4
Shale	2173-2196	23
Sand	2196-2227	31
Lime and shale	2227-2262	35
Shale and sand	2262-2295	33
Lime	2295-2303	8
Shale and lime	2303-2336	33
Lime and shale	2336-2339	3
Sand-Benoist	2339-2348	9
Lime-Rensault	2348-2370	22
Lime and shale	2370-2475	105
Lime	2475-2547	72
Lime and Dolomite	2547-2553	6
		<u>2553</u> total depth

RECEIVED

MAY 9 1961

Kentucky Geological Survey

Record No: 108159 Permit No: 2000
Farm Name: POOLE, NELLIE
Well No: 1
Operator: BURNS DRILLING CO
Location: 1200 FNL x 1610 FEL 21- 0-23
County: HENDERSON Elevation: 410

THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

Well Record
 Commonwealth of Kentucky
 Dept. of Mines & Minerals

RECEIVED
 MAY 9 1961
 DEPT. OF MINES AND MINERALS
 LEXINGTON, KENTUCKY

Oil and Gas Division
 P. O. Box 680
 Lexington, Ky.

Permit No 2000

Oil or Gas Well D & A

Company Burns Drilling Company

Casing and Used in Left in Tubing
 Drilling Well

Address 2709 Wash. Ave., Evansville, Ind.

Farm Nellie POOLE Acres 175

Size _____ Kind of Packer _____

Location (Waters) _____

16 _____
 13 _____
 10 _____ Size of _____

Well No 1 KB 414
 ElevGL 410

8 1/2 _____
 6 5/8 _____ Depth Set _____

District _____ County Henderson

5 3/16 _____
 3 _____ Perf. top _____

Drilling Commenced 1-10-61

2 _____ Perf. bottom _____

Drilling Completed 1-18-61

Liners Used _____
 _____ Perf. Top _____
 _____ Perf bottom _____

Name of Contractor Burns Drilling Company

Address of Contractor Evansville, Ind.

Date Shot _____ From _____ to _____

Casing Cemented _____ Size _____
 No. Ft. _____ Date _____

With _____

Open flow /10ths Water in _____ inch
 /10ths Merc.in _____ inch

RECEIVED
 MAY 9 1961

Kentucky Geological Survey

Record No: 108159 Permit No: 2000
 Farm Name: POOLE, NELLIE
 Well No: 1
 Operator: BURNS DRILLING CO
 Location: 1200 FNL x 1610 FEL 21- 0-23
 County: HENDERSON Elevation: 410
 THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
 THE ACCURACY OF INFORMATION ON THIS DOCUMENT

**AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL
As Required by Law**



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

MAY 21 1981

DEPT. OF MINES & MINERALS
OIL & GAS DIVISION

Name and address of Last Operator ECUS CORP. P.O. Box 208 MT Vernon, Mo. 47622

Name and address of original Operator who first permitted and drilled this well BURNS DRILLING - NOT IN BUSINESS

Name and address of Coal Operator NONE

Permit No. 2000, Elevation 42904, County HENDERSON

Carter Coordinate Location 21-0-23

Lease Name NELLIE POOLE Well No. 1

Affidavit to be made in triplicate, one copy to be mailed to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF ^{INDIANA} ~~KENTUCKY~~,
County of POSEY } ss:

ECUS CORP., operator of above captioned well does hereby swear that the plugging of said well was completed according to instructions from the oil and gas inspector and according to Chapter 353 K.R.S. on 1-28, 1978, record of which is listed below.

Plugged from <u>2567</u>	to <u>2527</u>	with <u>30 5/8 CLASSACEMENT</u>
Plugged from <u>545</u>	to <u>480</u>	with <u>25 " " " "</u>
Plugged from <u>285</u>	to <u>220</u>	with <u>25 " " " "</u>
Plugged from <u>30</u>	to <u>3</u>	with <u>10 " " " "</u>
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____
Plugged from _____	to _____	with _____

Indicate below the size and interval of any casing left in well and if and where it was shot off. Size 7", Shot off at 450' Bottom casing at TD
Size _____, Shot off at _____ Bottom casing at _____

State whether or not other: NONE

Record No: 108159 Permit No: 2000
Farm Name: POOLE, NELLIE
Well No: 1
Operator: BURNS DRILLING CO
Location: 1200 FNL x 1610 FEL 21-0-23
County: HENDERSON Elevation: 410

THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT THE ACCURACY OF INFORMATION ON THIS DOCUMENT

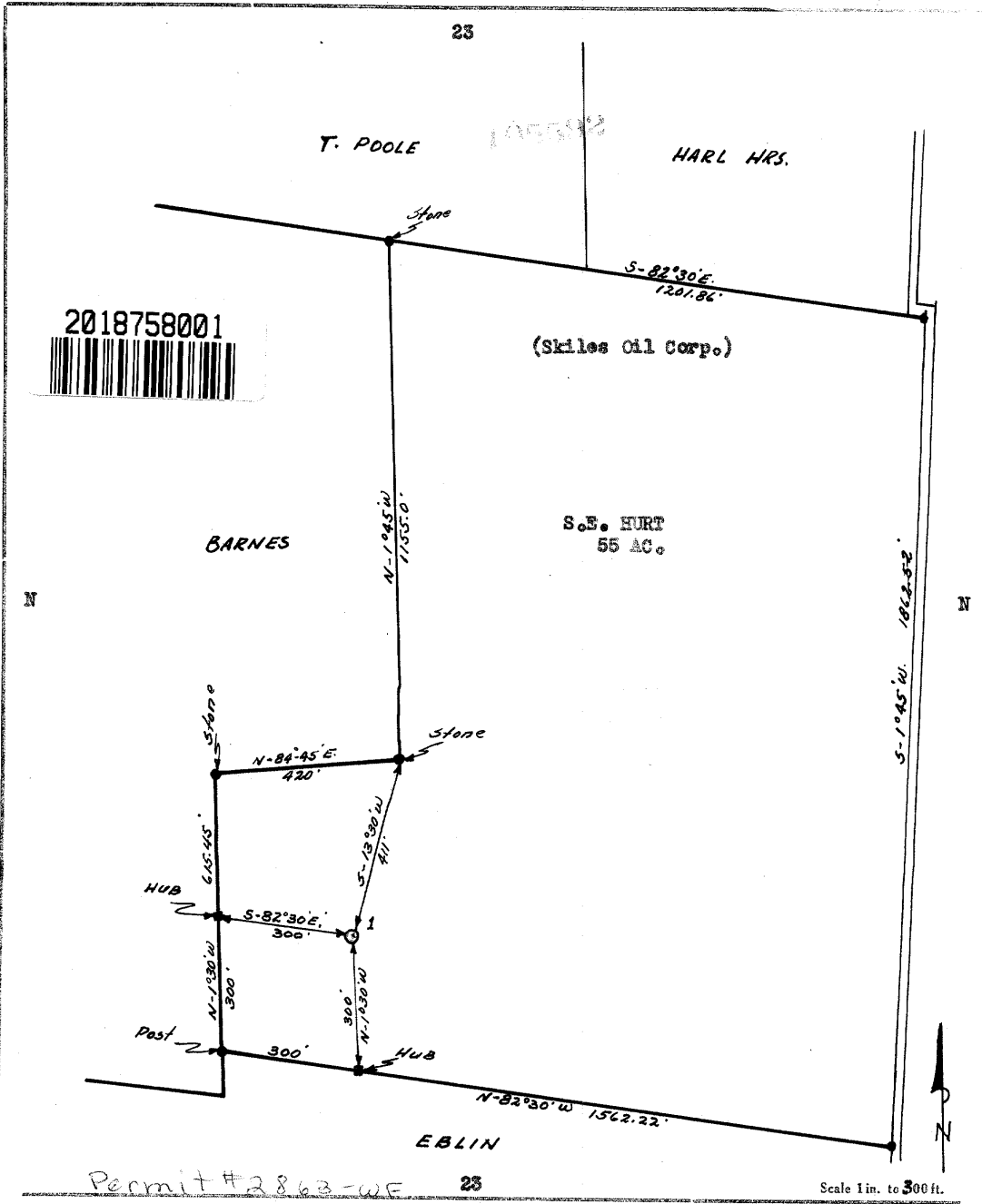
Signature of Contractor responsible for the above plugging, or ECUS CORP. by [Signature]

Signature of Operator responsible for the above plugging ECUS CORP. by [Signature]

Sworn to and subscribed before me this 18th day of May, 1981

Virginia L. Kuebler
Notary Public
VIRGINIA L. KUEBLER
RESIDENT OF JANDERBURGH COUNTY

My Commission expires: 5-12-84

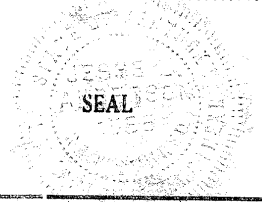


Plat for Permit to Drill

Company SKILES OIL CORP. Address MT. CARMEL, ILLINOIS
 Farm S.E. HURT Tract 1 Acres 55 Lease No. _____
 Well No. 1 Serial No. _____ Elevation _____
 Quadrangle N-23 Section 1 County HENDERSON
 Engineer JESSE L. ANDERSON Registration No. 1555
 Date 4/15/52

The Undersigned Registered Engineer Certifies That He Made This Well Location and is a Correct Location Made According to the Above Plat.

Jesse L. Anderson
 Engineer



900' FNL.) N-23
 FEL.)

2800' E. apt.

Serial No. _____
 State Co. Hwy. Sec. 1 T. N. R. 23 Pool Pool Coal
 Oper. Shiles Oil Corp. Elev. 430 DF. _____ Gr. _____
 Farm Shinley - Hunt No. 1 TD. 2698 PB. _____

LOCATION		TOP	BARRIER OR SAMPLE
Scout Farm		Prov. Is.	ESB
L.&S. 1000 N 1800 E		No. 11 Coal	2698
		No. 9 Coal	
		Mansfield	
		Penn. Sd.	
Comm. 4-20-52 Comp.		B. Penn.	
Remarks:		Biehl	
		Up. Kincaid	
		Lo. Kincaid	
		Degonia	
		Clore	
		Palestine	
		Up. Menard	
		Menard	
		Lo. Menard	1650-
		Walzburg	1740-47
		"	
		Vienna	1808-16
		T. S. (Jett)	1809-14
		"	
		Up. G. D.	
		Lo. G. D.	1743-56
		Hd. (Jones)	1542-54
		"	
		Golconda	2066-
		Jackson	
		Barlow Is.	2199-2205
		Cypress	2199-2205
		"	2239-49
		Up. Pt. Creek	2277-94
		Lo. Pt. Creek	2329-44
		Beth-Ben	
		Up. Renault	2394-240
		Renault	2457-84
		Aux Vases	2456-83
		"	
		"	
		St. Gen.	2532-
		O'hara-Rosi	2552-56
		Fredonia	
		McClosky	
		"	p50 2571-2605
		"	" 2610-13
		"	50 2631-35
		St. Louis	
		Chatt	
		Dev. Is.	
		Silurian	
		Trenton	
		St. Peter	

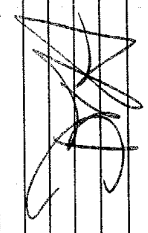
2018758002



CASING RECORD	
12"	5'
10"	8"
8"	5"
32	2660

SHOT-ACID RECORD	
Date	To
3000g.	

DATE	DRILLING RECORD
	9/1550
	92496
	DST 2548-58
	14 5'M
	DST 2630-38
	150'0
	B40 300 #
	MICR XCO 2640
	perf. 16 holes 2631-35
	200 4' km.
	filling 1840 w/km.
	cutting 2620
	perf. photo 2558-2600
	filling. 1870 w/km.





2018758003



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
OIL AND GAS DIVISION

P. O. Box 680
Lexington, Ky.

Permit No. 2797-WF

Oil or Gas Well Dry Hole
(Kind)

Company Skiles Oil Corporation
Address Box 251, Mt. Carmel, Illinois
Farm Shirley Edward Hurt Acres 55
Location (waters) 1-N-23
Well No. 1 Elev. 430
District _____ County Henderson
Drilling Commenced 4-21-52
Drilling Completed 5-3-52
Name of Contractor Westfall Drilling Company
Address of Contractor 208 S. E. Riverside, Evansville, Indiana
Date ~~5-10-52~~ Acidized From 2631 To 2635
With 3000 gal. dowell acid
Open flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch

Casing and Used in Left In Tubing Drilling Well

Size	
16	Kind of Packer
13	
10	Size of
8 1/4	
6 3/4	Depth Set
5 3/16	
3	Perf. top <u>2631</u>
2	Perf. bottom <u>2635</u>
Liners Used	<u>with 2 1/2 bullets</u>
	Perf. top _____
	Perf. bottom _____

Surface:
Casing Cemented _____ Size 2 5/8" Ft. 37' Date 4-20-52
Oil String: 5 1/2" 2760' 5-3-52
Abandoned

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks
Pennsylvanian System		Soft	37	1540 (t)	-	-	Mainly Sandstones & shales w/occasional thin limestones & coals, no oil shows.
Mississippian System							
Chester Series		Hard - Broken	1540 (t)	2531			Shales, sandstones & thinly bedded limestones. no oil shows.
Iowa Series							
Ste. Genevieve Form	Brown	Hard - Massive	2532	2648	Show of oil	2631'-35	Non-commercial as an oil producer
St. Louis Form	Brown	Hard - Massive	2649	2700 T.D.	-	-	No oil shows

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas & Coal or Water	Depth Found	Remarks

Date..... May 29,, 19.. 52

APPROVED..... Skiles Oil Corporation, Owner

By William S. Wood
Geologist (Title)

2018758004



FOR USE OF OIL AND GAS OPERATOR



RECEIVED
DEPT. OF MINES & GEOLOGY
LEXINGTON

AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL

107591

As Required by Law
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

..... Coal Operator or Owner Name of Well Operator
..... Address Complete Address
..... Coal Operator or Owner 19..... Well Location
..... Address County
..... Coal Operator or Owner	Well No. 1.....
..... Address Shirley Edward Hurt Farm

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,

County of Henderson } ss:

Bomar Kirk and

being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Kirk Casing Pulling, well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 25 day of June, 1952, and that the well was plugged and filled in the manner described in detail on the reverse side of this page.

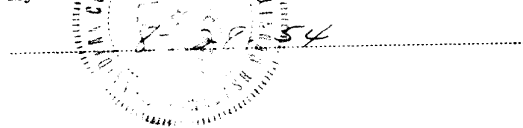
The work of plugging and filling said well was completed on the 28th day of June, 1952.

Bomar Kirk
Box 535 Grayville, Ill.

Sworn to and subscribed before me this 15 day of July

Muriel Birmingham
Notary Public

My commission expires:



KENTUCKY
HENDERSON CO.
D&A
POOLE

SKILES
#1 S. E. HURT
SPUD 4-20-52

1-N=23
1000' NL
1200' EL OF 9
ELEV 430' D.F.

5-2-52

SCHL
U MEN 1650
L MEN 1739-46
VI 1809-14
L GD 1942-54
GOL 2066
BAR 2199-2203
CYP 2239-49
U PC 2281-93
U REN 2392-2407
REN 2456-83
ST G 2532
O'H 2552-56
MCC 2591-2605 P60
2610-13 P60
2631-35 SO
S TD 2698
D ID 2698

10" AT 32, 5" AT 2660
1 HR DST 2548-58 REC 5' MUD
1 HR DST 2630-38 REC 150' OIL
BHP 300
ACID 3000 GALS. FU 1840' WTR
PERF 8 2598-2600 FU 1800' WTR
D&A

E-log ---
D-log ---
S-log ---

SUN-MICRO REF 66#6

5/20/52
214 BUDLOCK BLDG. "THE OIL REPORTER" EVANSVILLE, IND.
VIRGIL KAYS

34 IN-32
Tracing

MAP COUNTY Henderson COORD.
SEC. 1 TWP. N RGE. 23
SURVEY
BLK. ABSTRACT

COMPANY Skiles Oil Corp.
WELL NO. 1 FARM Shivey-Hurt
POOL Poole, Cons.

ELEV. 430
SPUD. 4/20/52

ASHLAND \$1500

LOC. SW NE NE
1000 FNL
1200 FEL.

FR. LINE/ FR. LINE/
ELEC. LOG 2698 /CSG: 10" 32

5" 2660

DST 2548-58, 1 1/4 hr, rec 5' mud, DST
2630-38, 1 hr, rec 150' oil, BHP 300#.
SOFT: Md 1650, LMD 1739-46, Wa sd
shaley, Va 1809-14, LGD 1942-54, Go
2066, Bsl 2199-2203, C sd 2239-49, PC
2281-2293, Re 2392-2407, LRe 2456-83,
LM 2532, L'0 2552-56, Mc poss SO 2591-
2605, poss SO 2610-13, SO 2631-35.
CO 2640, perf 16/2631-35, bld 1/4 BOPH
& SSW, acid/3000, FU 1840' wtr PH,
set plug 2620, perf 8/2598-2600, FU
1800' wtr PH.

L Md 1739	Va 1809	LGD 1942	BSL 2203
430	430	430	430
L Md-1309	Va-1379	LGD-1512	C-1773
LM 2532	Mc 2591	2610	2631
430	430	430	430
LM-2102	Mc-2161-5.?	-2180-5.?	-2201-5.

PAY ZONE TO 2698

PBTD

OIL	WTR.	HRS.	GAS	AB'D
				X
PUMP	FLOW	CHOKE	GRAV.	

KY STATE 5/15/52 DATE Trepaiz SCOUT

Serial No. _____

State Ky. Co. Henderson Pool Poole Cons. Sec. 1 T N R 23

Oper. Skiles Oil Corp. Elev. L&S. 430 DF. _____ Gr. _____

Farm Shivley-Hurt No. 1 TD. 2698 PB. _____

LOCATION						TOP	DRILLER OR SAMPLE	ELEC.
Scout								
Farm						Prov. Ls.		
L.&S. 1000' NL & 1200' EL Q						No. 11 Coal		
						No. 9 Coal		
						Mansfield		
						Penn. Sd.		
Comm. <u>4-20-52</u> mp. <u>5-15-52</u>						B. Penn.		
Remark <u>Ashland & O'Neal \$1500</u>						Up. Kincaid		
CASING RECORD						Kincaid		
12"	10"	8"	7"	5"	Liner	Lo. Kincaid		
	32			2660		Degonia		
SHOT-ACID RECORD						Clore		
Date	Qt.-Gal.	From	To			Palestine		
	3000					Up. Menard		
						Menard	1657	1650
						Lo. Menard	1740-47	1739-46
I. P. <u>D & A</u>						Walt'burg		
DRILLING RECORD						"		
DATE						Vienna	1808-16	1804-14
	DST 2548-58 1 1/4 hr. - 1384					T. S. (Jett)		
	5' M					"		
	DST 2630-38 1 hr.					Up. G. D.	1943-56	
	150' Oil					Lo. G. D.		1942-52
	BHP 300#					Hd. (Jones)		
						Golconda		2066
						Jackson		
						Barlow Ls.	2199-2205	2199-2203
						Cypress		2239-49
						"		
						Up. Pt. Creek	2277-94	2281-93
						Lo. Pt. Creek	2329-44	
						Beth-Ben		
						Up. Renault	2394-2410	2392-2407
						Renault	2457-84	2456-83
						Aux-Vases	2496	
						St. Gen.		2532
						O'hara		2552-56
						Rosiclare		
						Fredonia		
						McClosky	PSO	2591-2605
						"	PSO	2610-12
						"	GSO	2631-35
						St. Louis		
						Chatt		
						Dev. Ls.		
						Silurian		
						Trenton		

State Ky. Co. Henderson Sec. 1 T. N R. 23 Pool 2600' Ext. Pools
Cons.
 Oper. Skiles Oil Corp. Elev. 430'-145' D.F. _____ Gr. _____
 Farm Shivley - Hurt No. 1 TD. 2698' PB. _____

LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
Scout Farm							
L.&S. <u>1000' FN, 1200' FE of Quad.</u>							<u>Schl.</u>
<u>Ashland Offset</u>							
Comm. _____ Comp. _____					Biehl		
Remarks:					Up. Kincaid		
Casing Record					Lo. Kincaid		
12"	10"	8"	6"	5"	Degonia		
	<u>32'</u>			<u>2650'</u>	Clore		
SHOT-ACID RECORD					Palestine		
Date	Qt.-Gal.	From	To		Menard		<u>1650'</u>
	<u>3000</u>				Lo. Menard		<u>1739-46'</u>
					Walt'burg		
					"		
					Vienna		<u>1809-14'</u>
					T. S. (Jett)		
I. P.					"		
DATE	DRILLING RECORD				Up. G. D.		
	<u>4-20-52</u>				Lo. G. D.		<u>1942-54'</u>
	<u>LOT 2540-53', 1 1/2 hr.</u>				Hd. (Jones)		
	<u>5' mud.</u>				Golconda		<u>2066'</u>
	<u>EST 2630-33', 1 hr.</u>				Jackson		
	<u>Gas 26 min, 120' oil,</u>				Barlow Ls.		<u>2199-2203'</u>
	<u>30' MCC, BHP 300'</u>				Cypress		<u>2239-49'</u>
	<u>LOT, DP. C.O. 2640'</u>				Up. Pt. Creek		<u>2281-93'</u>
	<u>P. 16 2631-35'</u>				Lo. Pt. Creek		
	<u>Rate 1 1/2 hr. Acid.</u>				Beth-Ben		
	<u>P.O. 1040' 1/2 hr.</u>				Un. Renault		<u>2392-2407'</u>
	<u>P.S. 2620'</u>				Renault		<u>2456-83'</u>
	<u>P. 6 2598-2600'</u>				Aux Vases		
	<u>P.O. 1500' 1/2 hr. 1 1/2 hr.</u>				"		
					St. Gen.		<u>2532</u>
					O'hara-Rosi		<u>2542-56'</u>
					Fredonia		
					McClosky		<u>PSO. 2591-2605'</u>
					"		<u>PSO. 2610-13'</u>
					"		<u>S.O. 2631-2635'</u>
					St. Louis		
					Salem		
					Warsaw		
					Carper		
					La.		
					Chatt		
					Dev. Ls.		
					Silurian		
					Trenton		
					St. Peter		

FILMED

County Henderson State Ky.

Sec. 1 T. N R. 23

Loc. 1000' FNL, 1200' FEL of Qd. I&S

Opr. C. E. Skiles

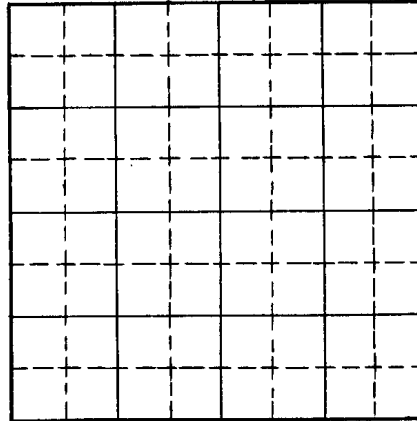
Farm #1 Shivley-Hurt

I. P. D & A

T. D. 2698

Fm. Tested _____

Elec. Log Yes



SCALE 2" = 1 MILE

Samples on File _____ Box No. _____

Lined area for notes or additional data.

SUN OIL COMPANY

COUNTY *Henderson* STATE *ky.* 39

Operator *C. E. Skiles* Sec. *1* Twp. *N* Rnge *23*

Farm *Spencer - Just* Well # *1* Spot *1000 FNL FSL*

Field *Coal Cons. Exp.* L. & S. Elevation *430* ✓ *1200 FEL FWL*

INITIAL PRODUCTION		SAMPLE TOPS		SCH.	TOPS	OF
Date	<i>MAY 14 1952</i>	S. C.	<i>430 1/2</i>			<i>of 1 1/2</i>
Pump	Flow	W. F.				
	<i>D & A</i>	Prov.				ELEC. LOG CHECKED
		Coal				<i>6-18-52</i>
Gas		Pa. Sd.				
T. D.	<i>2698</i>	Mans.				
D. D.		Bpt.				
P. B.		Biehl				
Form	Pay	U. Kin.				
		L. Kin.				
		Degonia				
		Clore Ls.				
		Clore Sd.				
		Pal.				
		U. Men.	<i>1657</i>	<i>1650</i>		
		Men.				
Spud	<i>4 20 52</i>	L. Men.	<i>1740-47</i>	<i>1739-46</i>		CASING RECORD
Date	Progress	Walt. Sd.		<i>SAW.</i>		
<i>4/23</i>	<i>1550</i>	Vienna	<i>1808-16</i>	<i>1809-14</i>		<i>10 at 32</i>
<i>APR 30</i>	<i>2496</i>	Tar Sp. Sd.				<i>5 at 2660</i>
<i>MAY 7</i>	<i>DIST 2548-58</i>	U. Glen D.				at
	<i>1 1/2 hrs 5' Mud</i>	L. Glen D.	<i>1943-56</i>	<i>1942-54</i>		at
	<i>DIST 2530-38</i>	Hdbg. Sd.				at
	<i>1 hr 150' oil</i>	Golc.		<i>2066</i>		at
	<i>3HP300</i>	Jack. Sd.				at
	<i>WOOD</i>	Barlow	<i>2199-2205</i>	<i>2199-2202</i>		at
<i>MAY 14 52</i>	<i>MIST 2640</i>	Cypress		<i>22</i>		TEMPORARY CASING
	<i>perf tot 14-111</i>					Sec. at
	<i>Acid FU 1840'</i>	U. Pcr. Ls.	<i>2277-94</i>	<i>2281-93</i>		Sec. at
	<i>with pw. fu.</i>	Pcr. Sd.				Sec. at
	<i>PB 2620 perf</i>	L. Pcr. Ls.	<i>2329-44</i>			Sec. at
	<i>FU 1800' with 11</i>	Bethel				Sec. at
		Renault	<i>2394-2410</i>	<i>2392-2407</i>		ACID RECORD
		L. Renault	<i>2457-84</i>	<i>2456-83</i>		gals. <i>3000</i>
		Aux. Vases	<i>2496</i>			gals.
		Ste. Gen.		<i>2532</i>		gals.
		L. O'Hara		<i>2552-56</i>		gals.
		Rosiclare				gals.
		Fredonia				PERFORATION RECORD
		McClosky		<i>2591-2605 PS</i>		<i>16 at 2631-35</i>
				<i>2610-13 PS</i>		<i>8 at 2598-2600</i>
				<i>2630-35</i>		at
		St. Louis				at
		Salem				at
						at
		Keokuk-Bur.				at
		Osage				SHOT RECORD
		La. Ls.				qts.-at
		Chatt. Sh.				qts.-at
		Devonian				qts.-at
		Silurian				qts.-at
		Maquoketa				qts.-at gals.
		Trenton				qts.-at gals.
		St. Peter				qts.-at gals.

CP-23 REV. 2 PRINTED IN U. S. A.

KENTUCKY
HENDERSON CO.
D&A

CHERRY & KIDD
#1 N. EBLIN
SPUD 4-10-46

1-N-23
2350' NL
2960' EL OF Q
ELEV 452

SCHL
MEN 1645
L MEN 1730-38
VI 1801-08
TS 1837-53.50
L TS 1904-2000 NS
GD 2008-24
GOL 2122
BAR 2221-26
CYP 2264-81 WTR
D TD 2282

10" AT 80
1 HR DST 1603-20 REC 270' MUD & WTR
D&A

2018774001



E-109

5/1/46 VIRGIL KAYS 41
214 BUDLOCK BLDG. "THE OIL REPORTER" EVANSVILLE, IND.

KENTUCKY
HENDERSON CO.
D&A

CHERRY & KIDD
#1 N. EBLIN
SPUD 4-10-46

1-N-23
2350' NL
2960' EL OF Q
ELEV. 452' D.F.

4-24-46

2950' NL X 1330' W/L

SCHL
MEN 1645
L MEN 1730-38
V1 1801-08
TS 1837-53 SO
L TS 1904-2000 NB
GD 2008-24
GOL 2122
BAR 2221-26
CVP 2264-81 WTR
D TO 2282

10" AT 80

1 HR DST 1603-20 REC 270' MUD & WTR
D&A

E-log - 2
D-log
S-log

SUN MICRO REEL / #0

5/1/46

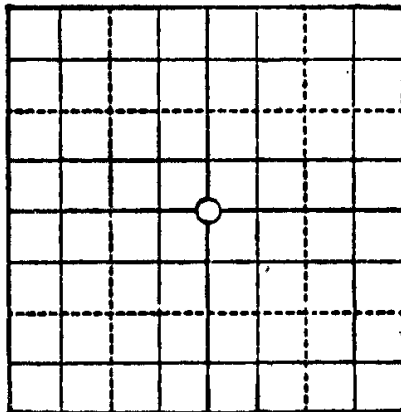
214 BUOLOCK BLDG. "THE OIL REPORTER" EVANSVILLE, IND. 41

Map _____ County Henderson

Sec. 1 Twp. N. Rge. 23

Company Cherry-Kidd

Well No. 1 Farm N. Eblin



Pool _____
Elev. 452
First Report
Completion
O. W. W. O.
Wildcat
Offset
Adjacent
Electric Log 2281

Samples To _____
10 inch 80 ft.
_____ inch _____ ft.
_____ inch _____ ft.
_____ inch _____ ft.

Spot NW NW SE SE NW
2350 from N line
2960 from E line
Rotary _____ ft. Cable _____ ft.
Spud 4-14-46 19 _____

Date TD 2282; Schlum: UMa 1645; LMa
1730-38; Va 1801-08; TS' 1837-
53, SO & 1904-2000, Ns; GD 2008;
~~Ho 2222~~; Basl 2221-26; Cy' 2264-
81, Wtr; Comp

Pay Zone _____ Total Depth 2282

PRODUCTION

Oil _____ Wtr. _____ Hrs. _____ Gas _____ Ab'd D&A
Pump _____ Flow _____ Choke _____ Grav. _____

Ky. State 5-1-46 Date 19 McMullin Scout

State Ky County Henderson Sec. 1 Twp. N R. 23
 Oper. Cherry & Kidd Contr. _____ Pool Pool
 Farm Richard L. Eblin No. 1 T.D. 2282P P.B. _____ Elev. 452 43

Coord 2250 FN x 1930 FW of Sec.
 Loc. on Farm 250 FS x 250 FW
 L. & S. 2350 FN x 2960 FE of N-23
 Comm. 4-14-46 Comp.
 Remarks: 650 E & 1705 of Carter #1 CEE/1101

CASING RECORD					TOP	DRILLER OR SAMPLE	ELEC.
Size	<u>10"</u>				Prov. L. S.		
Depth	<u>80'</u>				No. 11 Coal		
					No. 9 Coal		
					Mansfield		
					B. Penn.		
					Kincaid		
					Degonia		
					Clore		
					Palestine		
					Up. Menard		<u>1645</u>
					Lo. Menard		<u>1730-38</u>
I. P. <u>D KA.</u>					Walt'burg		

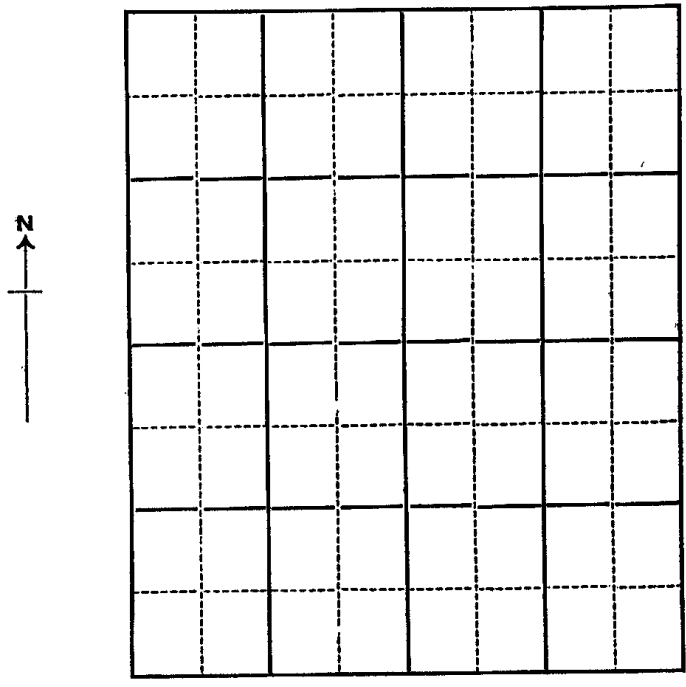
DATE	DRILLING RECORD						
<u>4-10-46</u>	<u>A. Loc.</u>				Vienna		<u>1801-08</u>
	<u>4480</u>				T. S. (Jett)		<u>1837-5350</u>
	<u>42265</u>						<u>1904-2000</u>
					Up. G. D.		<u>2008-24</u>
					Lo. G. D.		
					Hd. (Jones)		
					Golconda		<u>2122</u>
					Jackson		
					Barlow Ls		<u>2221-26</u>
					Cypress		<u>2264-8141</u>
					Pt. Creek		
					Beth-Ben		
					Renault		
					Aux Vases		
					St. Gen.		
					O'hara-Rosi		
					Fredonia		
					McClosky		
					St. Louis		
					Salem		
					Osage		
					Chatt		
					Dev. Ls		
					Silurian		
					Ordov.		
					Trenton		
					St. Peter		

MAP NO. 28 SEC. 1 LETTER N NO. 23

WELL NO. 1 N. Eblin FARM

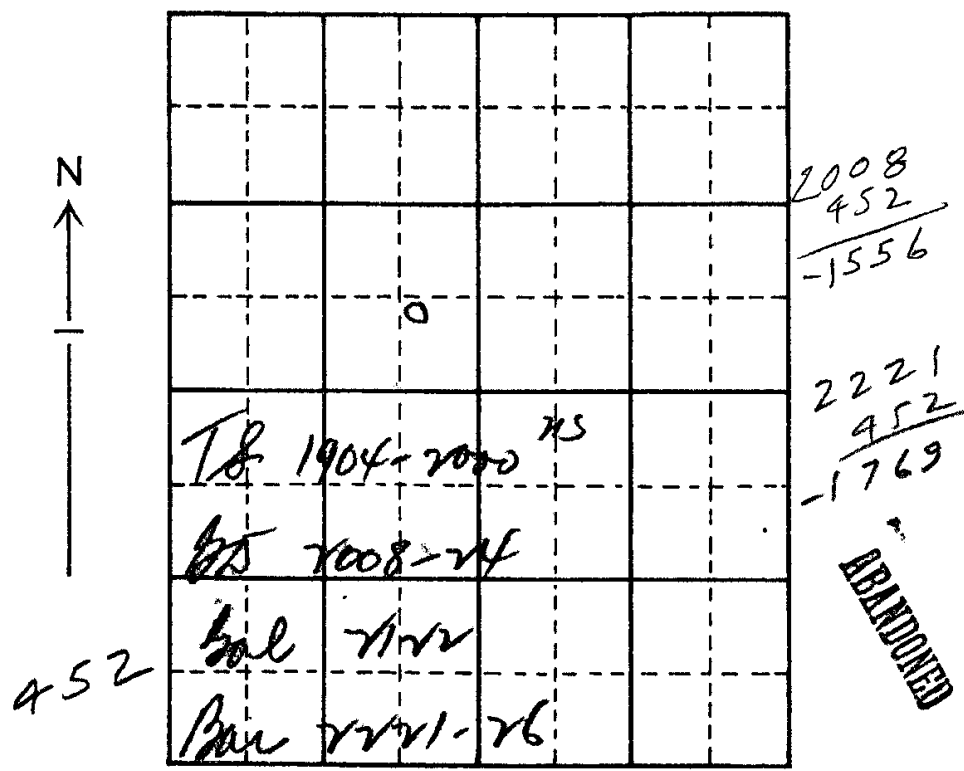
Cherry & Kidd COMPANY

COUNTY Henderson STATE Kentucky



- OIL WELL
- GAS WELL
- CLEANED OUT AND DRILLED DEEPER
- PLUGGED AT 2282 FEET
- GAS WELL PUT TO PUMPING
- LOCATION ABANDONED

MAP NO. 28 SEC. 1 LETTER N NO. 23
 COMPANY Cherry + Kidd
 WELL NO. 1 N. Eblin FARM
 COUNTY Henderson STATE KENTUCKY



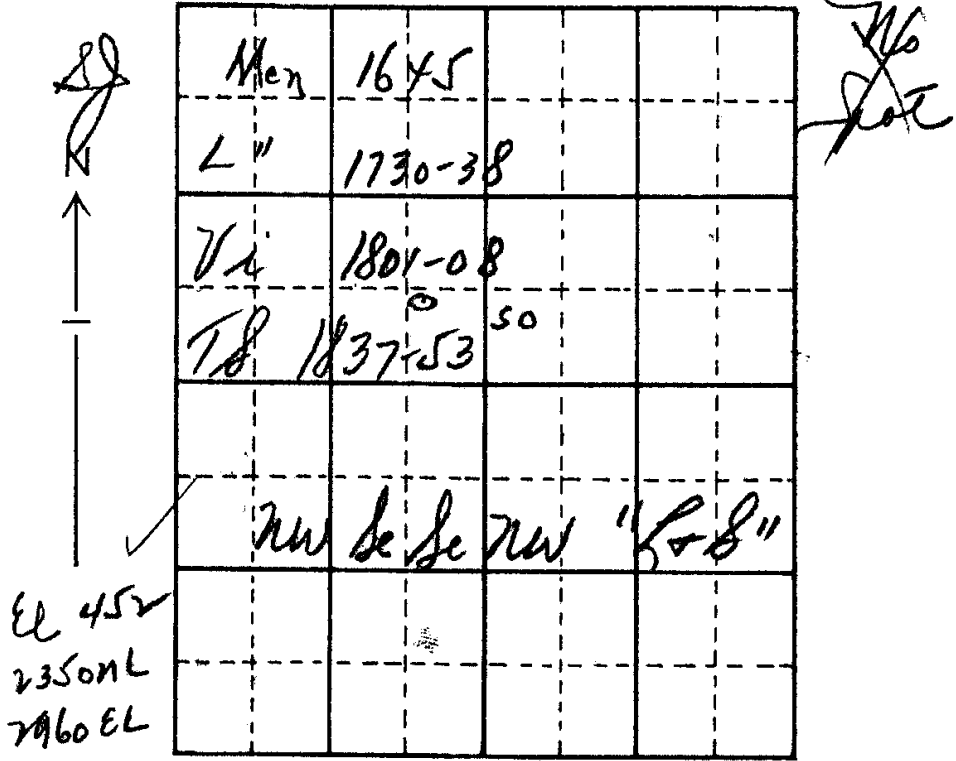
Cyp 2264-81 etc
 DRILLING AND REMARKS:

DTC

LOCATION _____
 RIG UP _____
 CASED _____ IN. _____ FT.
 TOTAL DEPTH 2221

DATE MAY 1 1946 19 _____ WM. T. JOHNSON
 SCOUT

MAP NO. 28 SEC. 1 LETTER N NO. 93
 COMPANY Cherry + Kidd
 WELL NO. 1 70 E blw FARM
 COUNTY Henderson STATE KENTUCKY



DRILLING AND REMARKS:

2265

LOCATION:

RIG UP:

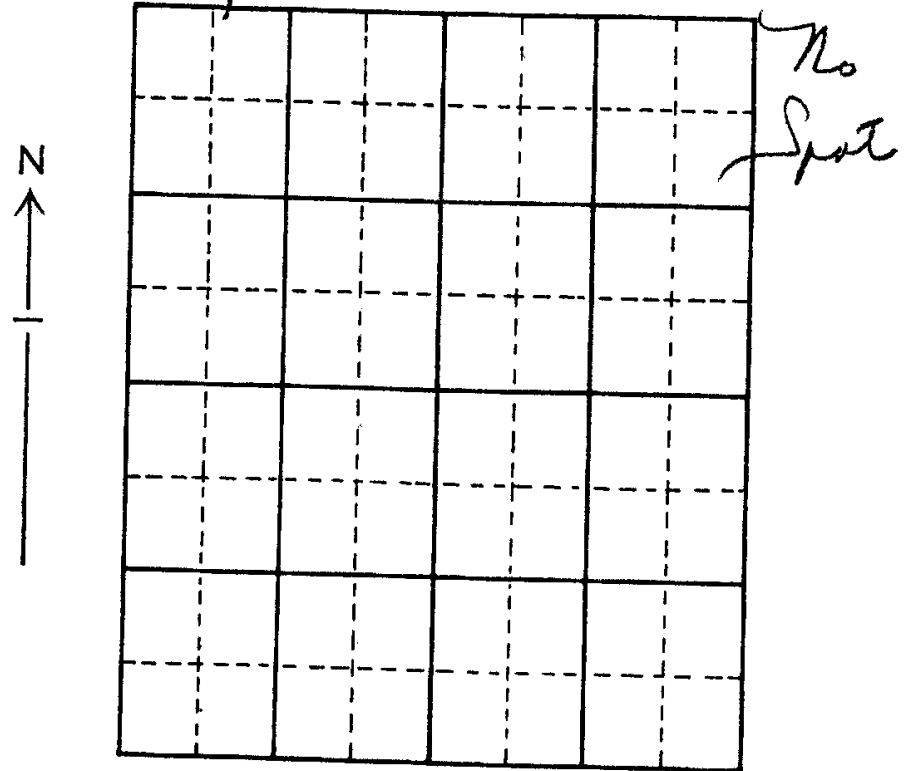
CASED 10 3/4 IN. 80' FT.

TOTAL DEPTH:

921204

DATE APR 24 1946 WM. T. JOHNSON
19 SCOUT

MAP NO. 28 SEC. 1 LETTER N NO. 23
COMPANY Cherry + Kidd
WELL NO. 1 W. E. Blinn FARM
COUNTY Henderson STATE KENTUCKY



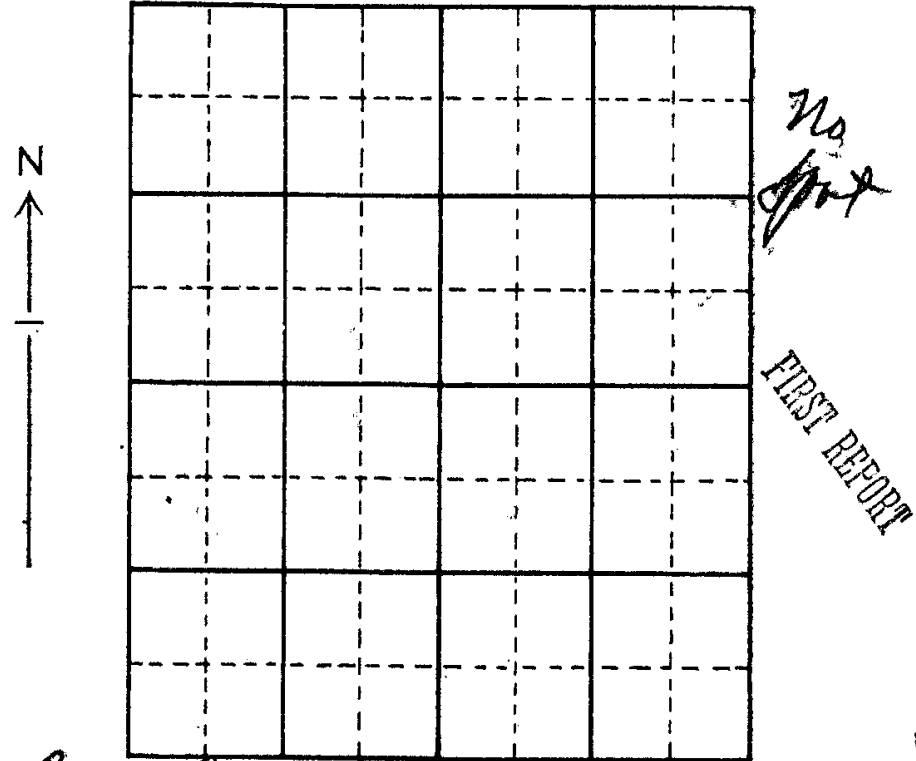
DRILLING AND REMARKS:

490

LOCATION _____
RIG UP _____
CASED _____ IN. _____ FT.
TOTAL DEPTH _____

DATE APR 17 1946 9 WM T. JOHNSON
SCOUT

MAP NO. 28 SEC 1 LETTER 71 NO. 23
COMPANY Cherry & Kidd
WELL NO. 1. N. Eblin FARM _____
COUNTY Henderson STATE KENTUCKY



Pool Pool
DRILLING AND REMARKS:

LOCATION
RIG UP _____
CASED _____ IN. _____ FT.
TOTAL DEPTH _____

DATE APR 10 1946 19 _____ WLM T JOHNSON
SCOUT

County Henderson State Ky.

Sec. 1 T. N



Loc. 2350' FNL, 2960' FEL of Qd.

Opr. Cherry & Kidd

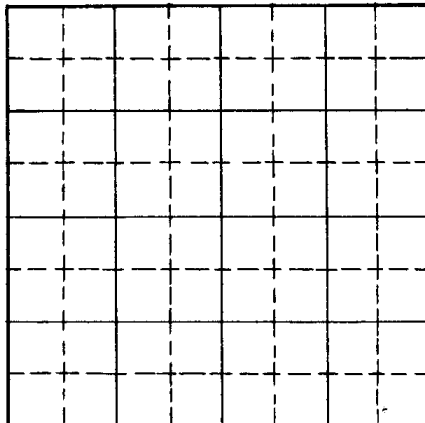
Farm #1 N. Elben

I. P. D & A

T. D. 2282'

Fm. Tested _____

Elec. Log Yes



SCALE 2" = 1 MILE

Samples on File _____ Box No. _____

Multiple horizontal lines for data entry.

1-N-23

HENDERSON CO. KY.

2350' FNIX 2960' FEL QD

Cherry & Kidd - #1 N. Elbin (Poole)

elev. 452'

clw log

T.D. 2282'

Menard

1645&

10" 80'

L. Menard

1730-38'

Vienna

1801-08'

D & A

Tar sp. sd.

1837-53'SO 1904-2000'

comp. 4-30-46

U. Glen dean

2008-24'

Golc.

~~2282'~~

Barlow

2221-26'

Cypress

2264-81'

SUN OIL COMPANY

COUNTY

HENDERSON

STATE KENTUCKY

Operator CHERRY & KIDD Sec. 1 Twp. N Rnge. 23

Farm N. ELBIN Well # 1 Spot

Field POOLE CONS. L. & S. Elevation 452 2350 FNL 296.0 FEL 3130 FWL

INITIAL PRODUCTION		SAMPLE TOPS	ELEC. LOG TOPS	OF
Date	APR 30 1948	S. C.		650' E. + 170' S. of Center
Pump	Swab Flow	W. F.		#1 C. E. Elliott
		Prov.		ELEC. LOG CHECKED
		Coal		
Gas		Pa. Sd.		
T. D.	2282	Mans.		
D. D.		Bpt.		
P. B.		Biehl		
Form	Pay	U. Kin.		
		L. Kin.		
		Degonia		
		Clore Ls.		
		Clore Sd.		
		Pal.		
		U. Men.		
		Men.	1645	
Spud	4/14	L. Men.	1730-38	
Date	Progress	Walt. Sd.		CASING RECORD
4-9	Loc.	Vienna	1801-08	10 at 80
1-16	\$ 480	Tar Sp. Sd.	1837-53 so 1904-2000	at
APR 23 48	\$ 2265	U. Glen D.	2008-24	at
		L. Glen D.		at
		Hdbg. Sd.		at
		Golc.	2122	at
		Jack. Sd.		at
		Barlow	2221-26	at
		Cypress	2264-81	TEMPORARY CASING
				at
				at
		U. Pcr. Ls.		at
		Pcr. Sd.		at
		L. Pcr. Ls.		at
		Bethel		CASING RIPPED
		Renault		at
		L. Renault		at
		Aux. Vases		at
		Ste. Gen.		at
		L. O'Hara		PERFORATION RECORD
		Rosiclare		at
		Fredonia		at
		McClosky		at
				at
				at
		St. Louis		at
		Salem		SHOT RECORD
		Keokuk-Bur.		qts.
		Osage		qts.
		La. Ls.		qts.
		Chatt. Sh.		qts.
		Devonian		ACID RECORD
		Silurian		
		Maquoketa		gals.
		Trenton		gals.
		St. Peter		gals.

PP-23 REV. 1 PRINTED IN U. S. A.

PLAT SHOWING

30836

BASIN OIL CORP. LEASE

60 ACRES

LOLA WHITLEDGE FEE

SECTION 1 - N - 23

&

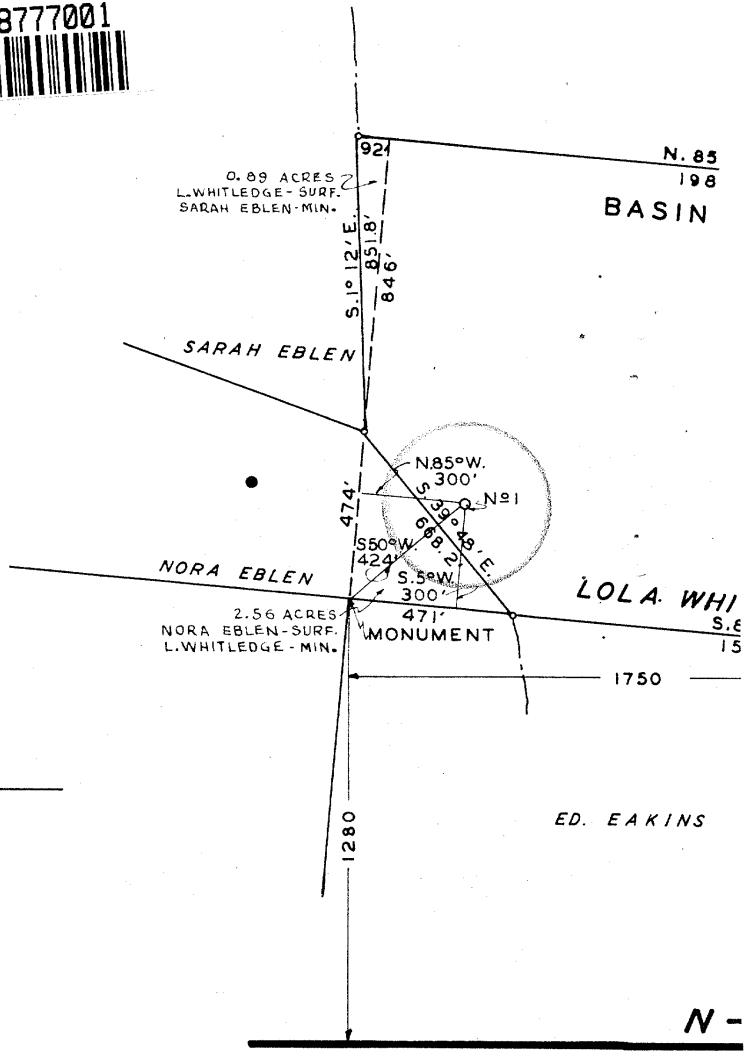
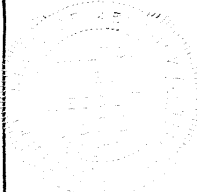
SECTION 5 - N - 24

HENDERSON COUNTY KENTUCKY

SCALE 1" = 400'

DECEMBER 24 1951

2018777001



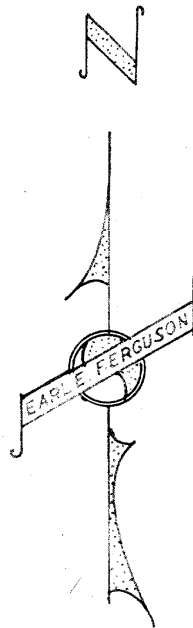
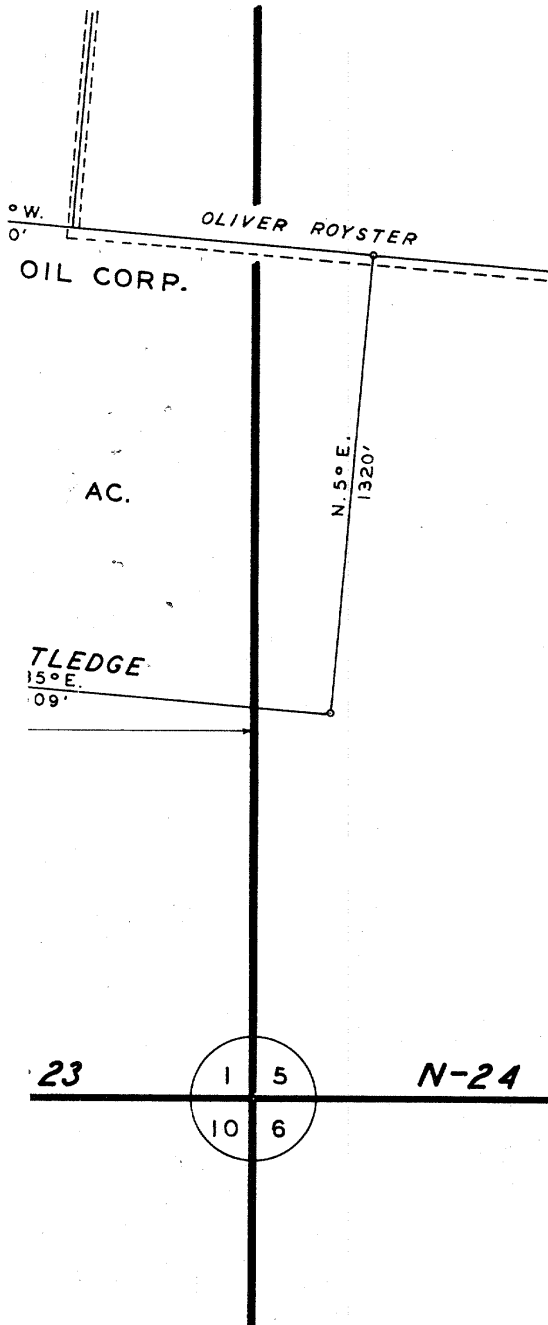
M. B. Wescott

M. B. WESCOTT
ASSOC. ENG.
NO. 638



EARL E. FERGUSON
AND ASSOCIATES
ENGINEERS & SURVEYORS
GREIN BLDG. EVANSVILLE, IND

201877002



98808

Serial No. _____
 State Co. Hwy. Sec. 1 T N R 23 Pool Poole
 Oper. Basin Oil Corp. Elev. 408 DF. _____ Gr. _____
 Farm Whiteledge No. 1 TD. 2634 PB. _____

LOCATION				TOP	DRILLER OR SAMPLE
Scout Farm	1600 S	1100 E	S		<u>2632</u>
L. & S.	2540 N	1240 E	D		
Comm.	12-24-51 Comp.				
Remarks:					
CASING RECORD					
12"	10"	8"	5"	5"	
SHOT-ACID RECORD					
85					
Date	Qt.-Gal.	From	To		
I. P.					
DATE DRILLING RECORD					
DST 26/5					
3 2862-71					
E 1000'					
20' 0					
30' 0 CM					
DST 2545-57					
15 6/020'					
60' 0 CM					
P S					
Prov. Ls.					
No. 11 Coal					
No. 9 Coal					
Mansfield					
Penn. Sd.					
B. Penn.					
Biehl					
Up. Kincaid					
Lo. Kincaid					
Degonia					
Clare					
Palestine					
Up. Menard					
Menard					
Lo. Menard					
Walzburg					
"					
Vienna					
T. S. (Jeff)					
"					
Up. G. D.					
Lo. G. D.					
Hd. (Jones)					
"					
Golconda					
Jackson					
Barlow Ls.					
Cypress					
"					
Up. Pt. Creek					
Lo. Pt. Creek					
Beth-Ben					
Up. Renault					
Renault					
Aux Vases					
"					
St. Gen.					
O'hara-Rosi					
Fredonia					
McClosky					
"					
"					
St. Louis					
Chatt					
Dev. Ls.					
Silurian					
Trenton					
St. Peter					



KENTUCKY
HENDERSON CO.
D&A
POOLE

BASIN OIL
#1 WHITLEDGE, LaLA
SPUD 12-24-51

1-N-23
4520' NL
1240' EL⁹
ELEV 408' D.F.

1-9-52

SCHL
L KIN 1444-72
L MEN 1714-20
WALT 1780-90
L TS 1893-1934
L GD 1938-64
HARD 1982-2046 WTR
GOL 2084-2100
BAR 2178-86
U PC 2266-98
L PC 2312-24
BEN 2352-72
REN 2444
AV 2464-72
STG 2507
FRED 2528
MC 2544-56 sso ✓

S TD 2632
D TD 2634 -

10" AT 85, 3 HR DST 2462-71 REC
GAS 1000', 20' OIL, 30' OCM, 1 1/2
HR DST 2545-57 REC GAS 1020', 60'
OCM.

E-log 12
D-log
S-log

21868
408
1778

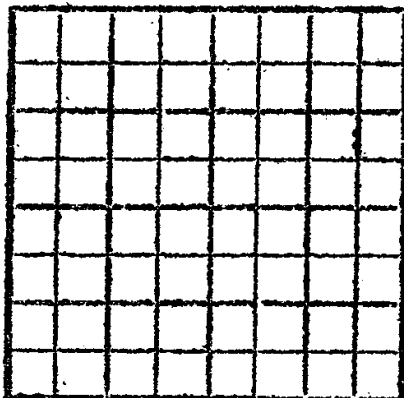
SUN MICRO REEL/#6

1/22/52
214 BUDLOCK BLDG. 'THE OIL REPORTER' EVANSVILLE, IND. 36

1N-32

MAP COUNTY Henderson COORD.
 SEC. 1 TWP. N RGE. 23
 SURVEY
 BLK. ABSTRACT

COMPANY Basin Oil Corp.
 WELL NO. 1 FARM L. Whitledge
 POOL Poole, Cons.
 ELEV. 408
 SPUD. 12/24/51



LOC. SE SF SE NW SE
 4520 FNL
 1240 FEL

FR. LINE/ FR. LINE/
 ELEC. LOG 2632 /CSG: 10" 85

DST 2462-71, 3 hrs rec 20' oil, 30'
 OCM, DST 2545-57, 1½ hrs, rec 60' OCM.
 SCHL: KK 1444-72, LMD 1714-20, No Wa
 sd, Va 1780-90, TS sd wtr 1893-1934,
 GD 1938-64, Hd sd wtr 1982-2046, Go
 2084, Bsl 2178-86, C sd Ng 2198-2206,
 2214-32, PC 2266-2298, LFC 2312, B sd
 2352-72, LRe 2444, AV sd 2464-72, LM
 2507, Fre 2528, Mc SSO 2544-56.

PAY ZONE

TD 2634

PBTD

OIL WTR. HRS. GAS AB'D

X

PUMP FLOW CHOKE GRAV.

Ky

1/17/52

Trenzatz

STATE

DATE

SCOUT

Serial No. _____
 State Ky Co. Henderson Pool Pool Sec. 1 T. N R. 23
 Oper. Basin Oil Co. Elev. L&S. 408 DF. _____ Gr. _____
 Farm Whitledge No. 1 TD. 2634 PB. _____

LOCATION						TOP	DRILLER OR SAMPLE	ELEC.
Scout <u>1600 FSX/100 FF Sec.</u>						Prov. Ls.		
Farm						No. 11 Coal		
L.&S.						No. 9 Coal		
						Mansfield		
						Penn. Sd.		
Comm. <u>12-29-57</u> Comp. <u>1-17-58</u>						B. Penn.		
Remarks:						Up. Kincaid		
CASING RECORD						Kincaid		<u>1444-72</u>
12"	10"	8"	7"	5"	Liner	Lo. Kincaid		
	<u>85</u>					Degonia		
SHOT-ACID RECORD						Clore		
Date	Qt.-Gal.	From			To	Palestine		
						Up. Menard		
						Menard		
						Lo. Menard		<u>1714-20</u>
I. P. <u>D-A</u>						Walt'burg		
DATE	DRILLING RECORD					"		<u>40</u>
						Vienna		<u>1750-90</u>
	<u>DST 2462-71 3hr</u>					T. S. (Jett)		<u>1893-1934</u>
	<u>1000 Gas</u>					"		
	<u>20' Oil</u>					Up. G. D.		<u>1938-64</u>
	<u>30 OCM</u>					Lo. G. D.		
						Hd. (Jones)	<u>W</u>	<u>1982-2046</u>
	<u>" 2545-57 1 1/2 hr</u>					Golconda		<u>2084-2100</u>
	<u>10 20' Gas</u>					Jackson		
	<u>60 OCM</u>					Barlow Ls.		<u>2175-86</u>
						Cypress	<u>H</u>	<u>2198-2206</u>
						"		<u>2244-32</u>
						Up. Pt. Creek		<u>2266-98</u>
						Pt. Creek Sd.		
						Lo. Pt. Creek		<u>2312-24</u>
						Beth-Ben		<u>2352-72</u>
						Up. Renault		
						Lo. Renault		<u>2444</u>
						Aux Vases	<u>50</u>	<u>2464-72</u>
						St. Gen.		<u>2507</u>
						O'Hara		
						Rosiclare		<u>2528</u>
						Fredonia	<u>550</u>	<u>2544-56</u>
						McClosky		
						"		
						"		
						St. Louis		
						Chatt		
						Dev. Ls.		
						Silurian		
						Trenton		
						Total Depth	<u>2634</u>	<u>2632</u>

State Ky. Co. Mon e sor Sec. 1 T. N R. 23 Pool Boole

Oper. Basin 11 Cor. Elev. 408' DF. Gr.

arm Whitledge No. 1 TD. 2534'

LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
Scout <u>1600'</u> , <u>119'</u> of <u>Co.</u>							<u>Schl.</u>
Farm							
L. & S. <u>3/16</u> <u>Pl. protected</u>							
Comm. _____ Comp. _____					<u>Bichl</u>		
Remarks: _____					<u>Up. Kincaid</u>		<u>1444-72'</u>
CASING RECORD					<u>Lo. Kincaid</u>		
12"	10"	8"	6"	5"	<u>Degonia</u>		
	<u>35'</u>				<u>Clore</u>		
SHOT-ACID RECORD					<u>Palentine</u>		
Date	Qt.-Gal.	From	To		<u>Menard</u>		
					<u>Lo. Menard</u>		<u>1714-20'</u>
					<u>Waltburg</u>		<u>None</u>
					<u>Vienna</u>		<u>1780-90'</u>
					<u>T. S. (Jett)</u>		<u>1693-1934'</u>
I. P.					<u>Up. G. D.</u>		
DATE	DRILLING RECORD				<u>Lo. G. D.</u>		<u>1935-34'</u>
	<u>12-24-51,</u>				<u>Hd. (Jones)</u>		<u>178'-3046'</u>
	<u>24-2-71, 3 hrs.</u>				<u>"</u>		
	<u>gas 1000, 20' oil,</u>				<u>Gelconda</u>		<u>2082-2100'</u>
	<u>30' oil,</u>				<u>Jackson</u>		
	<u>2545-57, 1 hrs.</u>				<u>Barlow Ls.</u>		<u>178-86'</u>
	<u>gas 1000, 20' oil,</u>				<u>Cypress</u>		<u>2198-2206'</u>
	<u>30' oil,</u>				<u>"</u>		<u>2214-32'</u>
	<u>2545-57, 1 hrs.</u>				<u>Up. Pt. Creek</u>		<u>2266-98'</u>
	<u>gas 1000, 20' oil,</u>				<u>Lo. Pt. Creek</u>		<u>2312-243'</u>
	<u>30' oil,</u>				<u>Edin Ben</u>		<u>2352-72'</u>
	<u>2545-57, 1 hrs.</u>				<u>Up. Renault</u>		
	<u>gas 1000, 20' oil,</u>				<u>Renault</u>		<u>2444-</u>
	<u>30' oil,</u>				<u>Aux Vases</u>		<u>2464-72'</u>
	<u>2545-57, 1 hrs.</u>				<u>"</u>		
	<u>gas 1000, 20' oil,</u>				<u>St. Gen.</u>		<u>2507-</u>
	<u>30' oil,</u>				<u>O'hara-Rosi</u>		
	<u>2545-57, 1 hrs.</u>				<u>Fredonia</u>		<u>2528-</u>
	<u>gas 1000, 20' oil,</u>				<u>McClosky</u>		<u>2544-55'</u>
	<u>30' oil,</u>				<u>"</u>		
	<u>2545-57, 1 hrs.</u>				<u>St. Louis</u>		
	<u>gas 1000, 20' oil,</u>				<u>Salem</u>		
	<u>30' oil,</u>				<u>Warsaw</u>		
	<u>2545-57, 1 hrs.</u>				<u>Carper</u>		
	<u>gas 1000, 20' oil,</u>				<u>La.</u>		
	<u>30' oil,</u>				<u>Chatt</u>		
	<u>2545-57, 1 hrs.</u>				<u>Dev. Ls.</u>		
	<u>gas 1000, 20' oil,</u>				<u>Silurian</u>		
	<u>30' oil,</u>				<u>Trenton</u>		
	<u>2545-57, 1 hrs.</u>				<u>St. Peter</u>		

County Henderson State Ky.

FILMED

Sec. 1 T. N R. 23

Loc. 4520' FNL, 1240' FEL of Qd. I&S

Opr. Basin Oil Corp.

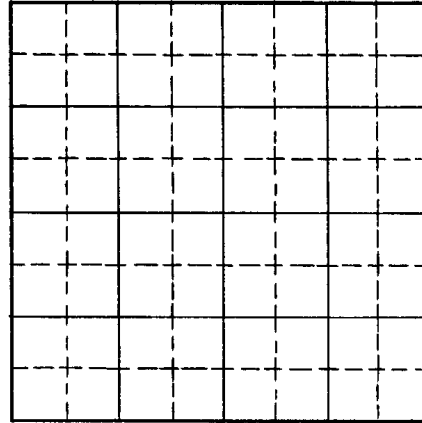
Farm #1 Whittledge

I. P. D & A

T. D. 2634

Fm. Tested _____

Elec. Log Yes



SCALE 2" = 1 MILE

Samples on File _____ Box No. _____

McClosky SSO

SUN OIL COMPANY P-6 COUNTY *Tenderson* STATE *Ky.* 39

Operator *Basin Oil Corp.* Sec. *1* Twp. *N* Rnge. *23*

Farm *Whitledge* Well # *1* Spot *4520* FNL *FWL*

Field *Boole* L. & S. Elevation *408* ~~1240~~ FEL *FWL*

INITIAL PRODUCTION SAMPLE TOPS SCH. ~~TOPS~~ *QF. Qd 4s*

Date *JAN 16 1952* S. C. W. F. Prov. Coal

Pump Flow *DATA* Pa. Sd. Mans. Bpt. Biehl

Gas *26 32 1/2 34* U. Kin. *1444-72*

D. D. Form Pay L. Kin. Degonia Clore Ls. Clore Sd. Pal. U. Men. Men.

L. Men. *1714-20* Walt. Sd. *1780-90* *10 at 85*

Spud *12 24 52* Date Progress *19 9 2615* *Hold* *DST 2462-71* *3 hrs gas 1000'* *20' OIL* *30' OCM* *DST 2545-57* *1 1/2 hrs gas 1020'* *60' OCM*

Vienna *1893-1934W* Tar Sp. Sd. U. Glen D. L. Glen D. Hdbg. Sd. *1938-64* *1982-2046W* Golc. *2084-2100* Jack. Sd. Barlow *2178-22183* Cypress *2198-2206 W* *2214-32 W*

U. Pcr. Ls. *2266-98* Pcr. Sd. L. Pcr. Ls. *2312-24* *2352-72* Bethel Renault *2444* L. Renault *2464-72* Aux. Vases *2507* Ste. Gen. L. O'Hara Rosiclare Fredonia *2528* McClosky *2544-5655*

St. Louis Salem Keokuk-Bur. Osage La. Ls. Chatt. Sh. Devonian Silurian Maquoketa Trenton St. Peter

St. Louis Salem Keokuk-Bur. Osage La. Ls. Chatt. Sh. Devonian Silurian Maquoketa Trenton St. Peter

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St. Louis Salem Keokuk-Bur. Osage La. Ls. Chatt. Sh. Devonian Silurian Maquoketa Trenton St. Peter

St. Louis Salem Keokuk-Bur. Osage La. Ls. Chatt. Sh. Devonian Silurian Maquoketa Trenton St. Peter

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St. Louis Salem Keokuk-Bur. Osage La. Ls. Chatt. Sh. Devonian Silurian Maquoketa Trenton St. Peter

St. Louis Salem Keokuk-Bur. Osage La. Ls. Chatt. Sh. Devonian Silurian Maquoketa Trenton St. Peter

ELEC. LOG CHECKED *1-28-52*

CASING RECORD

TEMPORARY CASING

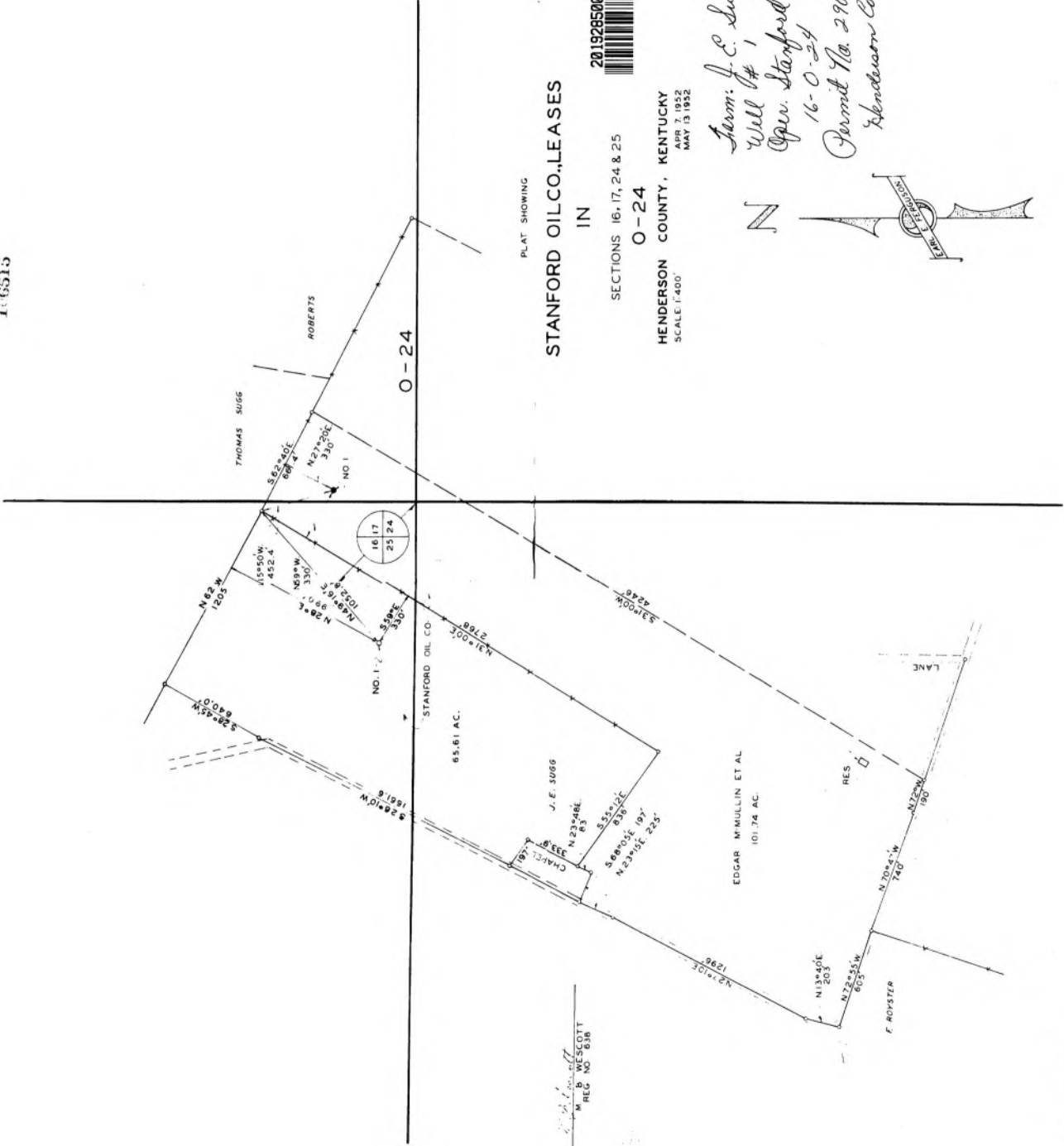
ACID RECORD

PERFORATION RECORD

SHOT RECORD

CP-23 REV. 2 PRINTED IN U. S. A.

166518



PLAT SHOWING

STANFORD OIL CO., LEASES

IN

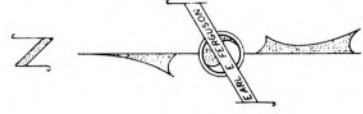
SECTIONS 16, 17, 24 & 25

0-24

HENDERSON COUNTY, KENTUCKY
APR 1 1952
MAY 13 1952

2019285001

Term: J. E. Sugg
 Well # 1
 Oper. Stanford Oil Co.
 16-0-24
 Permit No. 2900-W#
 Henderson Co.



M. B. WESCOTT
 REG. NO. 638

EARL E. FERGUSON
 AND ASSOCIATES
 ENGINEERS & SURVEYORS
 GREEN BLOC, EVANSVILLE, IND.

NO. 1123

Serial No. Co. Henn. Sec. 16 T. 0 R. 24 Pool Shenbreen N.
 Oper. Stanford Oil Co. Elev. 420 DF. 420 Gr.
 Farm J. El Suggs No. 1 TD 2367 PB.

LOCATION

Scout Farm L.&S. 800 S 400 E S

Comm. 5-18-52 Comp.

Remarks:

CASING RECORD			
12"	10"	8"	5"

SHOT-ACID RECORD		
Date	Qt.-Gal.	From To

I. P.

DATE DRILLING RECORD

1540

DST 23/4-20
30' M

DST 2323-34
5' 1860'
180' O
60' MCA
130' SW

TOP	DRILLER OR SAMPLE
Prov. Is.	<u>2364</u>
No. 11 Coal	
No. 9 Coal	
Mansfield	
Penn. Sd.	
B. Penn.	
Biehl	
Up. Kincaid	
Lo. Kincaid	
Degonia	
Clare	
Palestine	
Up. Menard	
Menard	<u>1620-86</u>
Lo. Menard	<u>1712-17</u>
Walt'burg	
"	
Vienna	<u>1779-83</u>
T. S. (Jett)	<u>NS 1790-</u>
"	
Up. G. D.	
Lo. G. D.	<u>1901-23</u>
Hd. (Jones)	
"	
Golconda	<u>2032-</u>
Jackson	
Barlow Is.	<u>2163-69</u>
Cypress	
"	
Up. Pt. Creek	
Lo. Pt. Creek	<u>2253-230</u>
Beth-Ben	<u>50 2322-34</u>
Up. Renault	<u>2340-</u>
Renault	
Aux Vases	
"	
St. Gen.	
O'hara-Rosi	
Fredonia	
McClosky	
"	
"	
St. Louis	
Chatt	
Dev. Is.	
Silurian	
Trenton	
St. Peter	



DA

Farm: Denton #1

Oper. Slaughter Prod. Co.

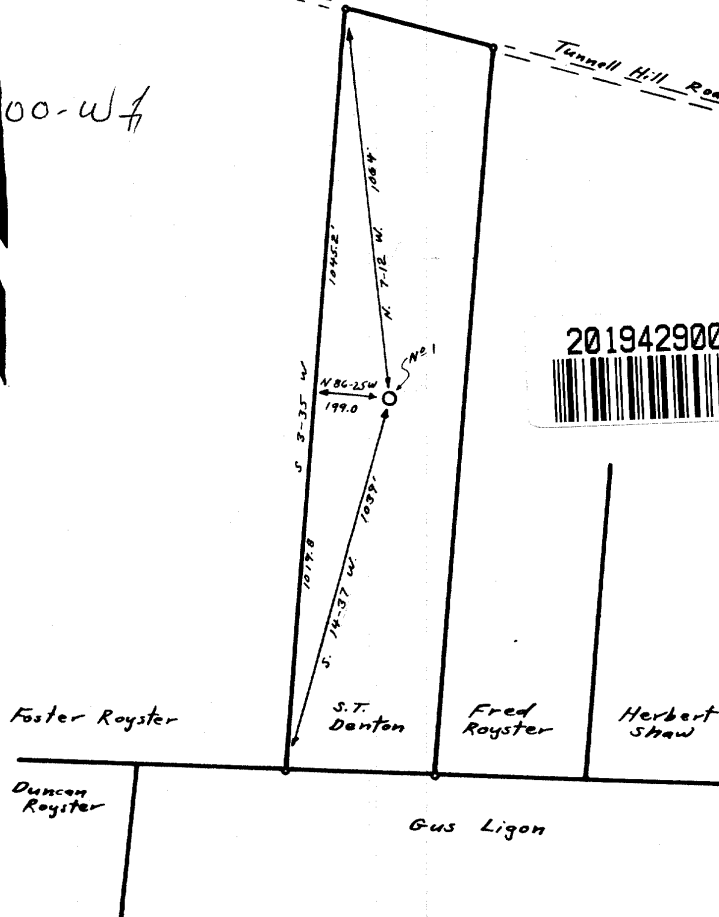
25-0-24

Permit No. 4600-W4

Henderson Co.

85732

Tunnell Hill Road



2019429001



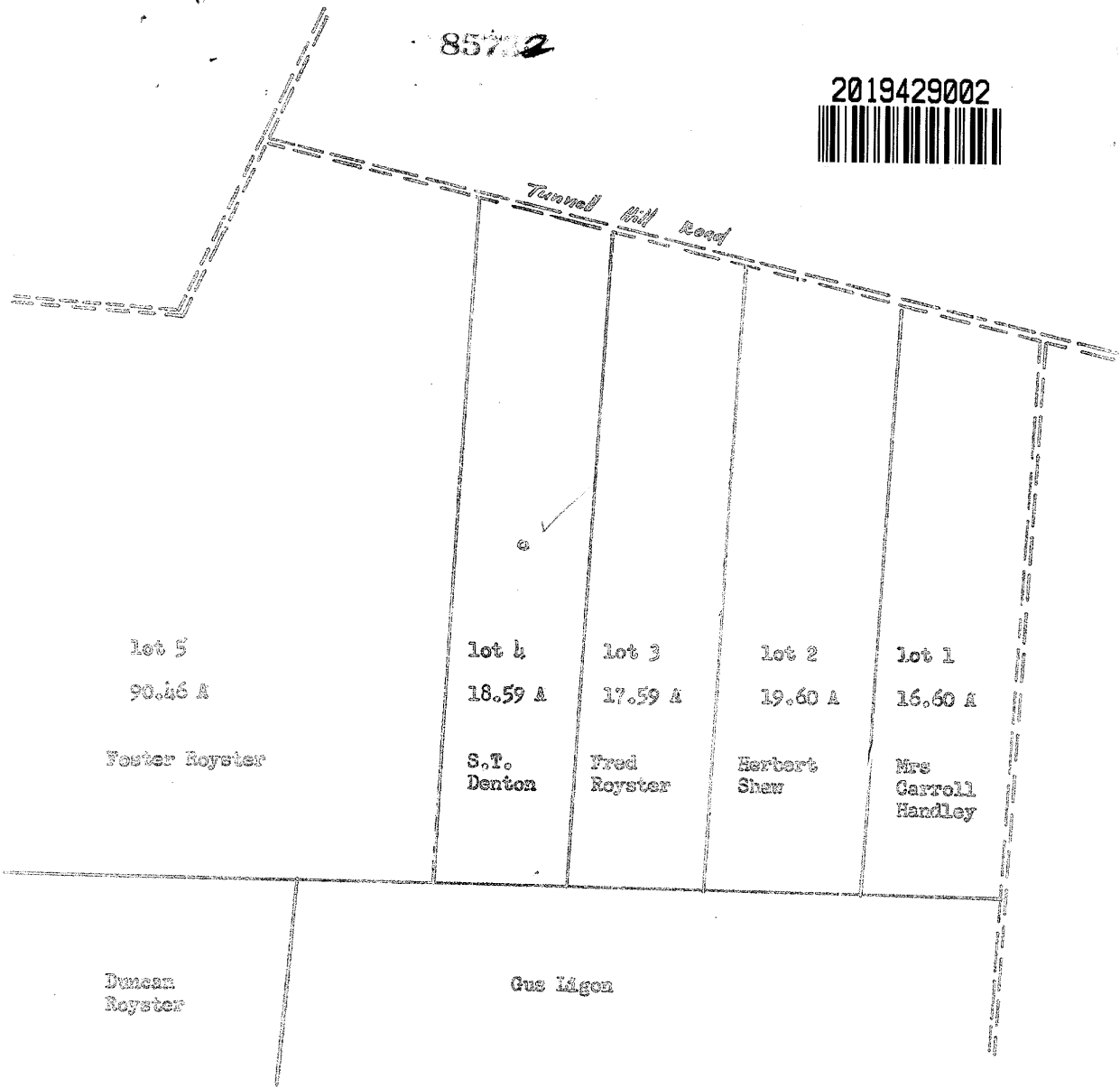
25-0-24
southwest of Robards
Henderson Co Kentucky
1" = 400'

Herman N. Hartung

OK PLW

85712

2019429002



lot 5 90.46 A Foster Royster	lot 4 18.59 A S.T. Denton	lot 3 17.59 A Fred Royster	lot 2 19.60 A Herbert Shaw	lot 1 16.60 A Mrs Carroll Handley
Duncan Royster	Gus Ligon			

plat showing part of 25 - 0 - 2k
southwest of Robards
Henderson County, Kentucky

plotted from deed descriptions

1 inch represents 400 feet

Serial No. _____
 State Co. Ky. Sec. 25 T. 0 R. 24 Pool _____ Gr. _____
 Oper. Wagoner Prod. Co. Elev. 472 DF. _____
 Farm Penton (kind) No. 1 TD 2692-PB.

LOCATION		TOP	DRILLER OR SAMPLE	RECD.
Scout Farm		Prov. Is.		
L.&S. 1750 S 1900 W Q		No. 11 Coal		2695
		No. 9 Coal		
		Mansfield		
		Fenn. Sd.		
		B. Penn.		
		Biehl		
		Up. Kincaid		
		Lo. Kincaid		
		Degonia		
		Clöre		
		Palestine		
		Up. Menard		
		Menard		1668-1733
		Lo. Menard		1756-63
		Wait'burg	NS	1768-74
		"		
		Vienna		1827-37
		T. S. (Jett)	NS	1866-86
		"		
		Up. G. D.		
		Lo. G. D.		1953-67
		Hd. (Jones)	NS	1994-2089
		"		
		Golconda		2098-
		Jackson		
		Barlow Is.		2225-31
		Cypress	NS	2262-72
		"		
		Up. Pt. Creek		2352-69
		Pt. Creek Sd.		
		Lo. Pt. Creek		
		Beth-Ben	NS	2386-2403
		Up. Renault		2407-34
		Renault		2473-2510
		Aux Vases		
		"		
		St. Gen.		2551-
		O'hara-Rosi		
		Fredonia		
		McClosky	NS	2603-18
		"		
		"		
		St. Louis		
		Chatt		
		Dev. Is.		
		Silurian		
		Trenton		
		St. Peter		

Comm. Jan 8-56 Comp. 3 MAY '53
 Remarks: Wildcat

CASING RECORD


12"	10"	8"	6"	5"
-----	-----	----	----	----

SHOT-ACID RECORD

Date	Qt.-Gal.	From	To
------	----------	------	----

L. P. DATE DRILLING RECORD
11/18
9-2231

[Handwritten signature]

2019429003




University of Kentucky
Kentucky Geological Survey

Oil Production Report | [About](https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm) (https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm)

Record Number: 147662

Oil and Gas Well Information:

Record Number: 147662

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: N2721

Well Number: 2

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.659076, -87.596245

KY Carter Coordinates: 1-N-23 2780N, 1090W

Surface Elevation:

Vertical Depth:

Measured (horizontal) Depth:

Operator: COUNTRYMARK ENERGY RESOURCES, LLC

Farm Name: DENTON, S T (NORTHEAST POOLE UTS UNIT)

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: Oil Production Report

(<https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?recNum=147662&prodType=oil>)

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a

OIL PRODUCTION DATA:

NOTE: At this time, the production data provided for individual wells is available from 1997 to 2017. Production data is held confidential for one full calendar year and is made public as soon as it is available after that date. The KY Division of Oil and Gas is the agency responsible for collecting this data and the most current production numbers are available are on their website <https://oilandgas.ky.gov/Pages/ProductionReports.aspx> (<https://oilandgas.ky.gov/Pages/ProductionReports.aspx>).

Download the **OIL** production data for this well into a text or Microsoft Excel file:

Select the type of file for download:

TAB DELIMITED TEXT FILE (.kgs extension*) ▼

* **.kgs files:** use in a text editor or spreadsheet as if a delimited ".txt" file

** **.xls files:** depending on browser configuration, file may automatically open inside browser window

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(<https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm>)

Production Plots (open in a new window):

- Oil Production Plot by Month
(https://kgs.uky.edu/kgsweb/datasearching/oilgas_dep/prodPlot.asp?recNum=147662&type=oil)

Year	Month	Oil Net: bbl / month	Oil: Status
1994	1	81.4444427490234	producing
1994	2	41.5555572509766	producing
1994	3	102.666664123535	producing
1994	4	81.7777786254883	producing
1994	5	81.6666641235352	producing
1994	6	80.7777786254883	producing
1994	7	80.6666641235352	producing
1994	8	81.4444427490234	producing
1994	9	102.111114501953	producing
1994	10	81.6666641235352	producing
1994	11	102	producing
1994	12	61.5555572509766	producing
1995	1	101	producing
1995	2	83.5555572509766	producing
1995	3	103.777778625488	producing
1995	4	82.7777786254883	producing

1995	5	82.6666641235352	producing
1995	6	78	producing
1995	7	81	producing
1995	8	100.777778625488	producing
1995	9	61.5555572509766	producing
1995	10	78.1111145019531	producing
1995	11	102.333335876465	producing
1995	12	62.2222213745117	producing
1996	1	62.2222213745117	producing
1996	2	94	producing
1996	3	61.5555572509766	producing
1996	4	82.8888854980469	producing
1996	5	62.5555572509766	producing
1996	6	102	producing
1996	7	61.8888893127441	producing
1996	8	81.5555572509766	producing
1996	9	76.6666641235352	producing
1996	10	82.3333358764648	producing
1996	11	81.4444427490234	producing
1996	12	62.4444427490234	producing
1997	1	83.2222213745117	producing
1997	2	82.6666641235352	producing
1997	3	62.2222213745117	producing
1997	4	81.3333358764648	producing
1997	5	62.5555572509766	producing
1997	6	60.6666679382324	producing
1997	7	73.7777786254883	producing
1997	8	76.1111145019531	producing
1997	9	70.6666641235352	producing
1997	10	60.8888893127441	producing
1997	11	82.2222213745117	producing
1997	12	53.8888893127441	producing
1998	1	64.4444427490234	producing
1998	2	88	producing
1998	3	82.5555572509766	producing
1998	4	68.7777786254883	producing
1998	5	84.1111145019531	producing
1998	6	64.1111145019531	producing
1998	7	45.3333320617676	producing
1998	8	85.4444427490234	producing
1998	9	64.3333358764648	producing
1998	10	63.6666679382324	producing

1998	11	86.6666641235352	producing
1998	12	64.4444427490234	producing
1999	1	76	producing
1999	2	56.7777786254883	producing
1999	3	53.2222213745117	producing
1999	4	71.2222213745117	producing
1999	5	56	producing
1999	6	56.6666679382324	producing
1999	7	56.2222213745117	producing
1999	8	74.8888854980469	producing
1999	9	56.3333320617676	producing
1999	10	74.6666641235352	producing
1999	11	56.3333320617676	producing
1999	12	76	producing
2000	1	28	producing
2000	2	28	producing
2000	3	27	producing
2000	4	53	producing
2000	5	27	producing
2000	6	27	producing
2000	7	55	producing
2000	8	26	producing
2000	9	55	producing
2000	10	28	producing
2000	11	28	producing
2000	12	26	producing
2001	1	19	producing
2001	2	19	producing
2001	3	21	producing
2001	4	21	producing
2001	5	19	producing
2001	6	21	producing
2001	7	19	producing
2001	8	18	producing
2001	9	17	producing
2001	10	18	producing
2001	11	17	producing
2001	12	18	producing
2002	1	15	producing
2002	2	16	producing
2002	3	18	producing
2002	4	21	producing

2002	5	22	producing
2002	6	22	producing
2002	7	21	producing
2002	8	21	producing
2002	9	21	producing
2002	10	21	producing
2002	11	21	producing
2002	12	22	producing
2003	1	20	producing
2003	1	20	producing
2003	2	19	producing
2003	2	19	producing
2003	3	20	producing
2003	3	20	producing
2003	4	18	producing
2003	4	18	producing
2003	5	17	producing
2003	5	17	producing
2003	6	16	producing
2003	6	16	producing
2003	7	16	producing
2003	7	16	producing
2003	8	17	producing
2003	8	17	producing
2003	9	17	producing
2003	9	17	producing
2003	10	17	producing
2003	10	17	producing
2003	11	16	producing
2003	11	16	producing
2003	12	18	producing
2003	12	18	producing
2004	1	16	producing
2004	2	14	producing
2004	3	17	producing
2004	4	17	producing
2004	5	17	producing
2004	6	11	producing
2004	7	11	producing
2004	8	15	producing
2004	9	13	producing
2004	10	14	producing

2004	11	14	producing
2004	12	12	producing
2005	1	13	producing
2005	2	12	producing
2005	3	12	producing
2005	4	12	producing
2005	5	12	producing
2005	6	12	producing
2005	7	11	producing
2005	8	18	producing
2005	9	22	producing
2005	10	23	producing
2005	11	22	producing
2005	12	22	producing
2006	1	22	producing
2006	1	0	producing
2006	2	0	producing
2006	2	19	producing
2006	3	22	producing
2006	3	0	producing
2006	4	0	producing
2006	4	20	producing
2006	5	21	producing
2006	5	0	producing
2006	6	0	producing
2006	6	20	producing
2006	7	18	producing
2006	7	0	producing
2006	8	0	producing
2006	8	17	producing
2006	9	17	producing
2006	9	0	producing
2006	10	13	producing
2006	10	0	producing
2006	11	0	producing
2006	11	16	producing
2006	12	17	producing
2006	12	0	producing
2007	1	17	producing
2007	2	16	producing
2007	3	19	producing
2007	4	23	producing

2007	5	20	producing
2007	6	20	producing
2007	7	18	producing
2007	8	16	producing
2007	9	15	producing
2007	10	16	producing
2007	11	16	producing
2007	12	17	producing
2008	1	24	producing
2008	2	18	producing
2008	3	23	producing
2008	4	22	producing
2008	5	21	producing
2008	6	20	producing
2008	7	20	producing
2008	8	18	producing
2008	9	19	producing
2008	10	19	producing
2008	11	20	producing
2008	12	23	producing
2009	1	18	producing
2009	2	10	producing
2009	3	15	producing
2009	4	20	producing
2009	5	25	producing
2009	6	22	producing
2009	7	23	producing
2009	8	24	producing
2009	9	22	producing
2009	10	20	producing
2009	11	19	producing
2009	12	21	producing
2010	1	16	producing
2010	2	18	producing
2010	3	23	producing
2010	4	22	producing
2010	5	22	producing
2010	6	22	producing
2010	7	22	producing
2010	8	20	producing
2010	9	19	producing
2010	10	19	producing

2010	11	18	producing
2010	12	19	producing
2011	1	19	producing
2011	2	18	producing
2011	3	18	producing
2011	4	15	producing
2011	5	19	producing
2011	6	19	producing
2011	7	20	producing
2011	8	19	producing
2011	9	18	producing
2011	10	18	producing
2011	11	18	producing
2011	12	18	producing
2012	1	14	producing
2012	2	13	producing
2012	3	14	producing
2012	4	14	producing
2012	5	14	producing
2012	6	13	producing
2012	7	13	producing
2012	8	12	producing
2012	9	13	producing
2012	10	13	producing
2012	11	15	producing
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2013	2	10	producing
2013	3	12	producing
2013	4	13	producing
2013	5	12	producing
2013	6	11	producing
2013	7	12	producing
2013	8	11	producing
2013	9	10	producing
2013	10	11	producing
2013	11	11	producing
2013	12	11	producing
2014	1	11	producing
2014	2	10	producing
2014	3	10	producing
2014	4	10	producing

2014	5	10	producing
2014	6	11	producing
2014	7	12	producing
2014	8	12	producing
2014	9	8	producing
2014	10	11	producing
2014	11	10	producing
2014	12	11	producing
2015	1	25	producing
2015	2	20	producing
2015	3	0	producing
2015	4	0	producing
2015	5	0	producing
2015	6	0	producing
2015	7	8	producing
2015	8	17	producing
2015	9	17	producing
2015	10	19	producing
2015	11	21	producing
2015	12	19	producing
2016	1	18	producing
2016	2	14	producing
2016	3	19	producing
2016	4	20	producing
2016	5	20	producing
2016	6	17	producing
2016	7	13	producing
2016	8	11	producing
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2016	10	14	producing
2016	11	15	producing
2016	12	31	producing
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2017	3	0	producing
2017	4	0	producing
2017	5	0	producing
2017	6	6	producing
2017	7	18	producing
2017	8	22	producing
2017	9	4	producing
2017	10	0	producing

2017	11	0	producing
2017	12	0	producing
2019	1	24	producing
2019	2	21	producing
2019	3	22	producing
2019	4	18	producing
2019	5	14	producing
2019	6	19	producing
2019	7	17	producing
2019	8	16	producing
2019	9	15	producing
2019	10	16	producing
2019	11	12	producing
2019	12	16	producing
2020	1	18	producing
2020	2	19	producing
2020	3	20	producing
2020	4	22	producing
2020	5	22	producing
2020	6	22	producing
2020	7	22	producing
2020	8	21	producing
2020	9	21	producing
2020	10	21	producing
2020	11	21	producing
2020	12	23	producing



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Oil Production Report | [About](https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm) (https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm)

Record Number: 147675

Oil and Gas Well Information:

Record Number: 147675

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: N2719

Well Number: 2

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.660325, -87.584966

KY Carter Coordinates: 1-N-23 2325N, 470E

Surface Elevation:

Vertical Depth:

Measured (horizontal) Depth:

Operator: COUNTRYMARK ENERGY RESOURCES, LLC

Farm Name: CRAVENS, J R (NORTHEAST POOLE UTS UNIT)

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: Oil Production Report

(<https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?recNum=147675&prodType=oil>)

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a

OIL PRODUCTION DATA:

NOTE: At this time, the production data provided for individual wells is available from 1997 to 2017. Production data is held confidential for one full calendar year and is made public as soon as it is available after that date. The KY Division of Oil and Gas is the agency responsible for collecting this data and the most current production numbers are available are on their website <https://oilandgas.ky.gov/Pages/ProductionReports.aspx> (<https://oilandgas.ky.gov/Pages/ProductionReports.aspx>).

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* **.kgs files:** use in a text editor or spreadsheet as if a delimited ".txt" file

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(<https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm>)

Production Plots (open in a new window):

- Oil Production Plot by Month
(https://kgs.uky.edu/kgsweb/datasearching/oilgas_dep/prodPlot.asp?recNum=147675&type=oil)

Year	Month	Oil Net: bbl / month	Oil: Status
2001	1	19	producing
2001	2	19	producing
2001	3	21	producing
2001	4	21	producing
2001	5	19	producing
2001	6	21	producing
2001	7	19	producing
2001	8	18	producing
2001	9	17	producing
2001	10	18	producing
2001	11	17	producing
2001	12	18	producing
2003	1	20	producing
2003	2	19	producing
2003	3	20	producing
2003	4	18	producing

2003	5	17	producing
2003	6	16	producing
2003	7	16	producing
2003	8	17	producing
2003	9	17	producing
2003	10	17	producing
2003	11	16	producing
2003	12	18	producing
2004	1	16	producing
2004	2	14	producing
2004	3	17	producing
2004	4	17	producing
2004	5	17	producing
2004	6	11	producing
2004	7	11	producing
2004	8	15	producing
2004	9	13	producing
2004	10	14	producing
2004	11	14	producing
2004	12	12	producing
2005	1	13	producing
2005	2	12	producing
2005	3	12	producing
2005	4	12	producing
2005	5	12	producing
2005	6	12	producing
2005	7	11	producing
2005	8	18	producing
2005	9	22	producing
2005	10	23	producing
2005	11	22	producing
2005	12	22	producing
2006	1	0	producing
2006	1	22	producing
2006	2	19	producing
2006	2	0	producing
2006	3	0	producing
2006	3	22	producing
2006	4	20	producing
2006	4	0	producing
2006	5	0	producing
2006	5	21	producing

2006	6	20	producing
2006	6	0	producing
2006	7	0	producing
2006	7	18	producing
2006	8	17	producing
2006	8	0	producing
2006	9	0	producing
2006	9	17	producing
2006	10	0	producing
2006	10	13	producing
2006	11	16	producing
2006	11	0	producing
2006	12	0	producing
2006	12	17	producing
2007	1	17	producing
2007	2	16	producing
2007	3	19	producing
2007	4	23	producing
2007	5	20	producing
2007	6	20	producing
2007	7	18	producing
2007	8	16	producing
2007	9	15	producing
2007	10	16	producing
2007	11	16	producing
2007	12	17	producing
2008	1	24	producing
2008	2	18	producing
2008	3	23	producing
2008	4	22	producing
2008	5	21	producing
2008	6	20	producing
2008	7	20	producing
2008	8	18	producing
2008	9	19	producing
2008	10	19	producing
2008	11	20	producing
2008	12	23	producing
2009	1	18	producing
2009	2	10	producing
2009	3	15	producing
2009	4	20	producing

2009	5	25	producing
2009	6	22	producing
2009	7	23	producing
2009	8	24	producing
2009	9	22	producing
2009	10	20	producing
2009	11	19	producing
2009	12	21	producing
2010	1	16	producing
2010	2	18	producing
2010	3	23	producing
2010	4	22	producing
2010	5	22	producing
2010	6	22	producing
2010	7	22	producing
2010	8	20	producing
2010	9	19	producing
2010	10	19	producing
2010	11	18	producing
2010	12	19	producing
2011	1	19	producing
2011	2	18	producing
2011	3	18	producing
2011	4	15	producing
2011	5	19	producing
2011	6	19	producing
2011	7	20	producing
2011	8	19	producing
2011	9	18	producing
2011	10	18	producing
2011	11	18	producing
2011	12	18	producing
2012	1	14	producing
2012	2	13	producing
2012	3	14	producing
2012	4	14	producing
2012	5	14	producing
2012	6	13	producing
2012	7	13	producing
2012	8	12	producing
2012	9	13	producing
2012	10	13	producing

2012	11	15	producing
2012	12	18	producing
2013	1	10	producing
2013	2	10	producing
2013	3	12	producing
2013	4	13	producing
2013	5	12	producing
2013	6	11	producing
2013	7	12	producing
2013	8	11	producing
2013	9	10	producing
2013	10	11	producing
2013	11	11	producing
2013	12	11	producing
2014	1	11	producing
2014	2	10	producing
2014	3	10	producing
2014	4	10	producing
2014	5	10	producing
2014	6	11	producing
2014	7	12	producing
2014	8	12	producing
2014	9	8	producing
2014	10	11	producing
2014	11	10	producing
2014	12	11	producing
2015	1	0	shut-in
2015	2	0	shut-in
2015	3	0	shut-in
2015	4	0	shut-in
2015	5	0	shut-in
2015	6	0	shut-in
2015	7	0	shut-in
2015	8	0	shut-in
2015	9	0	shut-in
2015	10	0	shut-in
2015	11	0	shut-in
2015	12	0	shut-in
2016	1	0	shut-in
2016	2	0	shut-in
2016	3	0	shut-in
2016	4	0	shut-in

2016	5	0	shut-in
2016	6	0	shut-in
2016	7	0	shut-in
2016	8	0	shut-in
2016	9	0	shut-in
2016	10	0	shut-in
2016	11	0	shut-in
2016	12	0	shut-in
2017	1	0	shut-in
2017	2	0	shut-in
2017	3	0	shut-in
2017	4	0	shut-in
2017	5	0	shut-in
2017	6	0	shut-in
2017	7	0	shut-in
2017	8	0	shut-in
2017	9	0	shut-in
2017	10	0	shut-in
2017	11	0	shut-in
2017	12	0	shut-in
2019	1	0	shut-in
2019	2	0	shut-in
2019	3	0	shut-in
2019	4	0	shut-in
2019	5	0	shut-in
2019	6	0	shut-in
2019	7	0	shut-in
2019	8	0	shut-in
2019	9	0	shut-in
2019	10	0	shut-in
2019	11	0	shut-in
2019	12	0	shut-in



University of Kentucky
Kentucky Geological Survey

Oil Production Report | [About](https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm) (https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm)

Record Number: 147804

Oil and Gas Well Information:

Record Number: 147804

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: 780W8

Well Number: 4

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.708677, -87.57885

KY Carter Coordinates: 15-O-24 2925N, 1300W

Surface Elevation: 406 ft

Vertical Depth:

Measured (horizontal) Depth:

Operator: BIG MAN OIL CO, INC

Farm Name: KING, HATTIE

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: Oil Production Report

(<https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?recNum=147804&prodType=oil>)

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a

OIL PRODUCTION DATA:

NOTE: At this time, the production data provided for individual wells is available from 1997 to 2017. Production data is held confidential for one full calendar year and is made public as soon as it is available after that date. The KY Division of Oil and Gas is the agency responsible for collecting this data and the most current production numbers are available are on their website <https://oilandgas.ky.gov/Pages/ProductionReports.aspx> (<https://oilandgas.ky.gov/Pages/ProductionReports.aspx>).

Download the **OIL** production data for this well into a text or Microsoft Excel file:

Select the type of file for download:

MICROSOFT EXCEL FILE (.xls extension**) ▼

* **.kgs files:** use in a text editor or spreadsheet as if a delimited ".txt" file

** **.xls files:** depending on browser configuration, file may automatically open inside browser window

DOWNLOAD | [More Info / KEY](#)

(<https://www.uky.edu/KGS/emsweb/kyogfaq/ogprodbywell.htm>)

Production Plots (open in a new window):

- Oil Production Plot by Month
(https://kgs.uky.edu/kgsweb/datasearching/oilgas_dep/prodPlot.asp?recNum=147804&type=oil)

Year	Month	Oil Net: bbl / month	Oil: Status
1997	1	37	producing
1997	2	37	producing
1997	3	37	producing
1997	4	37	producing
1997	5	37	producing
1997	6	37	producing
1997	7	37	producing
1997	8	37	producing
1997	9	37	producing
1997	10	37	producing
1997	11	37	producing
1997	12	37	producing
1998	1	20	producing
1998	2	20	producing
1998	3	20	producing
1998	4	20	producing

1998	5	20	producing
1998	6	20	producing
1998	7	20	producing
1998	8	20	producing
1998	9	20	producing
1998	10	20	producing
1998	11	20	producing
1998	12	20	producing
1999	1	3	producing
1999	2	3	producing
1999	3	3	producing
1999	4	3	producing
1999	5	3	producing
1999	6	3	producing
1999	7	3	producing
1999	8	3	producing
1999	9	3	producing
1999	10	3	producing
1999	11	3	producing
1999	12	3	producing
2000	1	0	shut-in
2000	2	0	shut-in
2000	3	0	shut-in
2000	4	0	shut-in
2000	5	0	shut-in
2000	6	0	shut-in
2000	7	0	shut-in
2000	8	0	shut-in
2000	9	0	shut-in
2000	10	0	shut-in
2000	11	0	shut-in
2000	12	0	shut-in
2001	1	0	shut-in
2001	2	0	shut-in
2001	3	0	shut-in
2001	4	0	shut-in
2001	5	0	shut-in
2001	6	0	shut-in
2001	7	0	shut-in
2001	8	0	shut-in
2001	9	0	shut-in
2001	10	0	shut-in

2001	11	0	shut-in
2001	12	0	shut-in
2002	1	0	shut-in
2002	2	0	shut-in
2002	3	0	shut-in
2002	4	0	shut-in
2002	5	0	shut-in
2002	6	0	shut-in
2002	7	0	shut-in
2002	8	0	shut-in
2002	9	0	shut-in
2002	10	0	shut-in
2002	11	0	shut-in
2002	12	0	shut-in
2003	1	0	shut-in
2003	2	0	shut-in
2003	3	0	shut-in
2003	4	0	shut-in
2003	5	0	shut-in
2003	6	0	shut-in
2003	7	0	shut-in
2003	8	0	shut-in
2003	9	0	shut-in
2003	10	0	shut-in
2003	11	0	shut-in
2003	12	0	shut-in
2004	1	0	shut-in
2004	2	0	shut-in
2004	3	0	shut-in
2004	4	0	shut-in
2004	5	0	shut-in
2004	6	0	shut-in
2004	7	0	shut-in
2004	8	0	shut-in
2004	9	0	shut-in
2004	10	0	shut-in
2004	11	0	shut-in
2004	12	0	shut-in
2005	1	0	shut-in
2005	2	0	shut-in
2005	3	0	shut-in
2005	4	0	shut-in

2005	5	0	shut-in
2005	6	0	shut-in
2005	7	0	shut-in
2005	8	0	shut-in
2005	9	0	shut-in
2005	10	0	shut-in
2005	11	0	shut-in
2005	12	0	shut-in
2006	1	0	shut-in
2006	2	0	shut-in
2006	3	0	shut-in
2006	4	0	shut-in
2006	5	0	shut-in
2006	6	0	shut-in
2006	7	0	shut-in
2006	8	0	shut-in
2006	9	0	shut-in
2006	10	0	shut-in
2006	11	0	shut-in
2006	12	0	shut-in
2007	1	0	producing
2007	2	0	producing
2007	3	0	producing
2007	4	0	producing
2007	5	0	producing
2007	6	0	producing
2007	7	1	producing
2007	8	0	producing
2007	9	0	producing
2007	10	0	producing
2007	11	0	producing
2007	12	0	producing
2008	1	0	producing
2008	2	0	producing
2008	3	0	producing
2008	4	0	producing
2008	5	0	producing
2008	6	0	producing
2008	7	1	producing
2008	8	1	producing
2008	9	0	producing
2008	10	0	producing

2008	11	0	producing
2008	12	0	producing
2009	1	0	shut-in
2009	2	0	shut-in
2009	3	0	shut-in
2009	4	0	shut-in
2009	5	0	shut-in
2009	6	0	shut-in
2009	7	0	shut-in
2009	8	0	shut-in
2009	9	0	shut-in
2009	10	0	shut-in
2009	11	0	shut-in
2009	12	0	shut-in
2010	1	0	shut-in
2010	2	0	shut-in
2010	3	0	shut-in
2010	4	0	shut-in
2010	5	0	shut-in
2010	6	0	shut-in
2010	7	0	shut-in
2010	8	0	shut-in
2010	9	0	shut-in
2010	10	0	shut-in
2010	11	0	shut-in
2010	12	0	shut-in
2011	1	0	shut-in
2011	2	0	shut-in
2011	3	0	shut-in
2011	4	0	shut-in
2011	5	0	shut-in
2011	6	0	shut-in
2011	7	0	shut-in
2011	8	0	shut-in
2011	9	0	shut-in
2011	10	0	shut-in
2011	11	0	shut-in
2011	12	0	shut-in
2015	1	0	producing
2015	2	0	producing
2015	3	0	producing
2015	4	0	producing

2015	5	0	producing
2015	6	0	producing
2015	7	0	producing
2015	8	0	producing
2015	9	0	producing
2015	10	0	producing
2015	11	1	producing
2015	12	0	producing
2016	1	0	shut-in
2016	1	0	shut-in
2016	2	0	shut-in
2016	2	0	shut-in
2016	3	0	shut-in
2016	3	0	shut-in
2016	4	0	shut-in
2016	4	0	shut-in
2016	5	0	shut-in
2016	5	0	shut-in
2016	6	0	shut-in
2016	6	0	shut-in
2016	7	0	shut-in
2016	7	0	shut-in
2016	8	0	shut-in
2016	8	0	shut-in
2016	9	0	shut-in
2016	9	0	shut-in
2016	10	0	shut-in
2016	10	0	shut-in
2016	11	0	shut-in
2016	11	0	shut-in
2016	12	0	shut-in
2016	12	0	shut-in
2017	1	0	shut-in
2017	2	0	shut-in
2017	3	0	shut-in
2017	4	0	shut-in
2017	5	0	shut-in
2017	6	0	shut-in
2017	7	0	shut-in
2017	8	0	shut-in
2017	9	0	shut-in
2017	10	0	shut-in

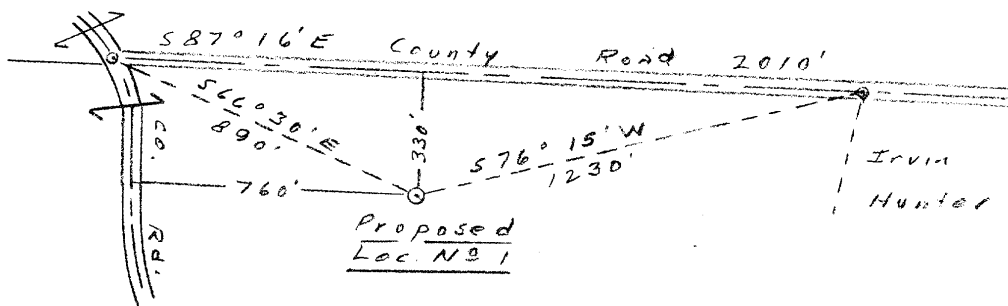
2017	11	0	shut-in
2017	12	0	shut-in
2018	1	0	shut-in
2018	2	0	shut-in
2018	3	0	shut-in
2018	4	0	shut-in
2018	5	0	shut-in
2018	6	0	shut-in
2018	7	0	shut-in
2018	8	0	shut-in
2018	9	0	shut-in
2018	10	0	shut-in
2018	11	0	shut-in
2018	12	0	shut-in

WELL LOCATION PLAT

401 F

14312

Jessie Handley



ROYSTER-DENTON
T. M. EGAN ET AL LSC.

2019281001



CARTER COORDINATE
16-0-24 Scale 1" = 2000'

1650' 0 1600'

1650' FWL
1600' FNL

U. S. G. S. T O P O

Operator T. M. Egan et al
 Farm Royster-Denton
 Well No. 1 Elevation 422 Gr.
 County Henderson Kentucky
 Date 1-19-60 Scale 1"-400'
 Engineer F. E. Moran
 Address P. O. Box 663 Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

F. E. Moran
 Registered Engineer No. 1961

TOPS 221

21

Rec# 2019291

Operator: Ashland-Basin

Elev:- 461 1/2 KB

Farm: King #1

T.D.: 2658

Carter Cood: 18-0-24 Footages: 2100 (FSL) X 1900 FEL
N (W)

Elec. Log Density Log County: Hend.

	DPTH	DEPH	DEPH	TYPE	ELEV. BASE
Carthage Lmst.					
channel facies ss.1					
channel facies ss.2					
W. Franklin Lmst.					
Coiltown coal					
Central City ss.					
Wheatcroft coal	<u>BC</u>				
Anvil Rock ss.		<u>NP</u>			
Baker coal	<u>CN</u>				
U. Providence Lm.	<u>125</u>				
Paradise coal					
L. Providence Lm.	<u>145</u>				
Herrin coal	<u>CN</u>				
U. Vermillionville ss		<u>NP</u>			
Briar Hill coal	<u>CN</u>				
L. Vermillionville ss		<u>NP</u>			
Springfield coal	<u>230</u>				
U. Pleasantview ss.		<u>NP</u>			
Houchen Creek coal	<u>321</u>				
L. Pleasantview ss.		<u>350</u>	<u>380</u>	<u>P</u>	
Survant coal	<u>CN</u>				
Colchester coal	<u>430</u>				
Sebree ss.		<u>NP</u>			
Davis coal	<u>495</u>				
U. Granger ss.		<u>NP</u>			
L. Granger ss.		<u>652</u>	<u>688</u>	<u>F</u>	
Curlew Lmst.	<u>CN</u>				
Mannington coal					
Empire Lmst	<u>CN</u>		<u>SS 730-765</u>	<u>G</u>	
Lead Creek Lmst.	<u>CN</u>				
channel facies ss.3		<u>925</u>	<u>1150</u>	<u>G</u>	
Bell coal	<u>CN</u>				
Caseyville Fm. top	<u>1160</u>				
Caseyville Fm. bot	<u>1505</u>				
% sandstone	<u>25</u>		<u>LLM</u>		
Vienna Lmst.	<u>1765</u>				

TYPE SS: G=good, F=fair, P=poor

BC= behind casing

NP= not present

CN= could not pick

Kentucky Geological Survey

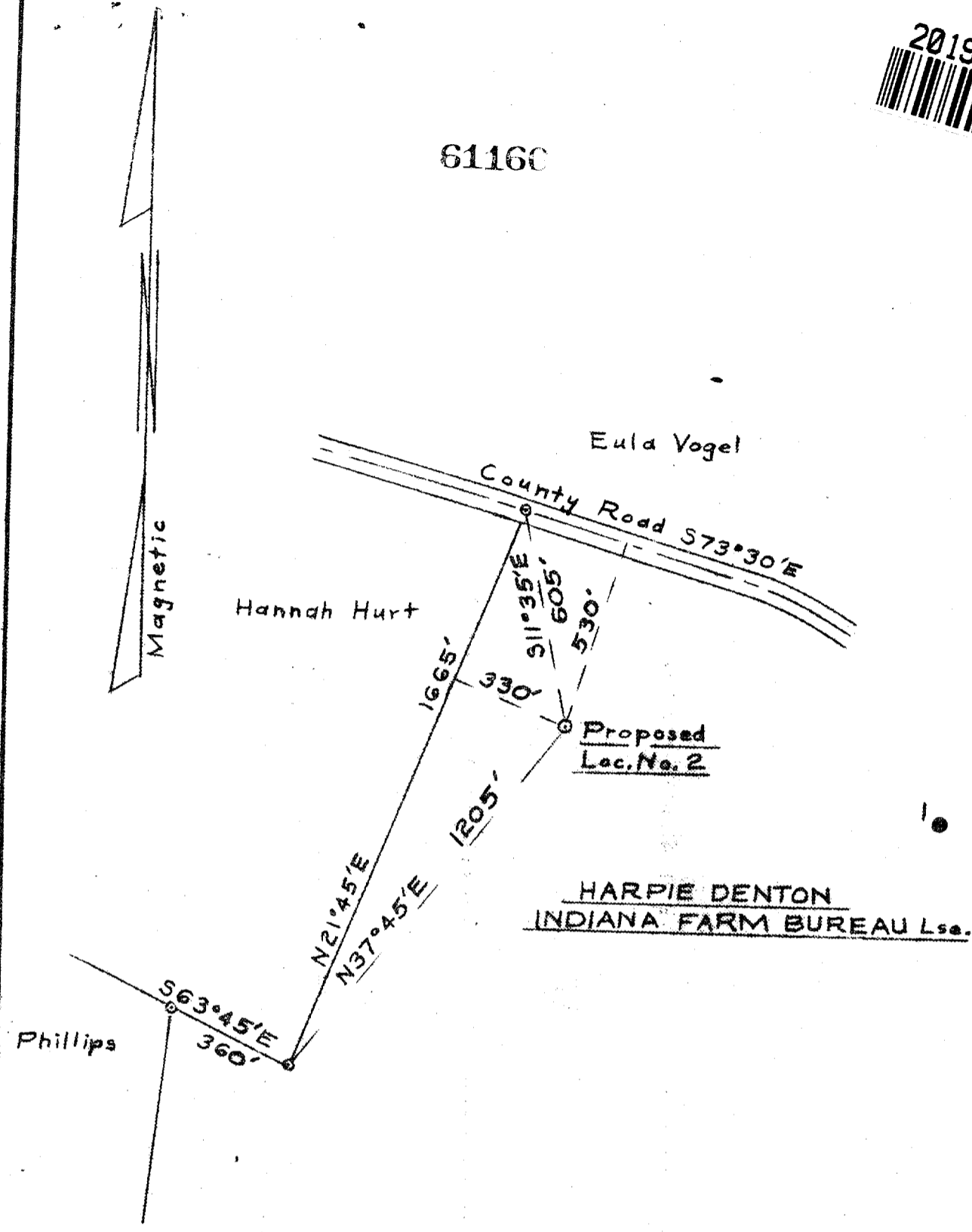


2019291002

WELL LOCATION PLAT



61160



CARTER COORDINATE
15-0-24 Scale 1" = 2000'

USGS Topo

2500' 0 200'

Operator Indiana Farm Bureau
 Farm Harpie Denton
 Well No. 2 Elevation 410-Gr.
 County Henderson Kentucky
 Date 12-3-58 Scale 1"=400'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

F. E. Moran
Registered Engineer No. 1961

WELL LOCATION PLAT

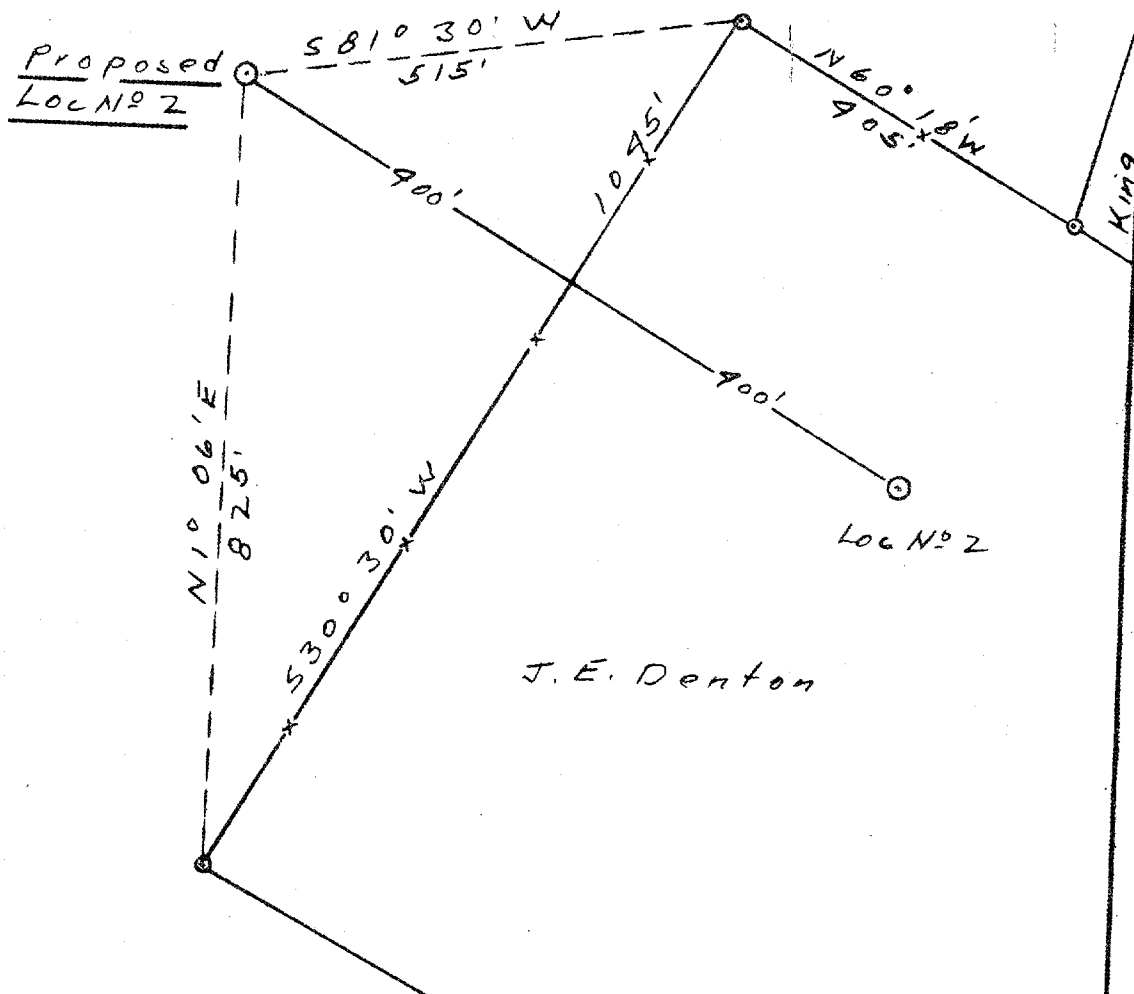
4010

61142

HARPIE L. DENTON
INDIANA FARM BUREAU COOPERATIVE ASSOCIATION
INC. Lse.

No 1

2019317002



Magnetic

CARTER COORDINATE

15-0-24 Scale 1" = 2000'

U.S.G.S. T.O.P.O.

500' 0
1850' 0

Operator Indiana Farm Bureau Cooperative Assoc., Inc.
 Farm Harpie L. Denton
 Well No. 2 Elevation 406 Gr.
 County Henderson Kentucky
 Date 9-5-58 Scale 1"=200'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961

Serial No. _____

State Co. Kent. Sec. 15 T. 0 R. 24 Pool Pool Cons.

Oper. Ind. Farm Bureau Elev. 409 DF. 45 Gr. _____

Farm H. L. Denton No. 2 TD. 2520 PB. _____

NT		LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
Scout	<u>14,700</u>	<u>S</u>	<u>320</u>	<u>W</u>	<u>Ø</u>	Prov. Ls.		<u>2520</u>	
Farm						No. 11 Coal			
L.&S.						No. 9 Coal			
						Mansfield			
						Penn. Sd.			
Comm.	<u>12-15-58</u>	Comp.	<u>FEB 19</u>	<u>1959</u>		B. Penn.			
Remarks:	<u>A.</u>					Biehl			
CASING RECORD						Up. Kincaid			
	12"	10"	8"	6"	5"	Lo. Kincaid		<u>1450-</u>	
SHOT-ACID RECORD						Degonia			
Date	Qt.-Gal.	From	To			Clore			
						Palestine			
						Up. Menard			
						Menard			
						Lo. Menard		<u>1630-</u>	
						Walt'burg		<u>1717-</u>	
						"			
I. P.						Vienna		<u>1786-</u>	
DATE	DRILLING RECORD					T. S. (Jett)		<u>1865-</u>	
<u>FEB 12 1959</u>	<u>hold for tops</u>					"			
	<u>DST 2495-2505</u>					Up. G. D.			
	<u>2</u>					Lo. G. D.			
	<u>765' G</u>					Hd. (Jones)		<u>1923-</u>	
	<u>50' OCM</u>					"			
	<u>90' \$W</u>					Golconda		<u>2033-</u>	
	<u>BHP 639</u>					Jackson			
						Barlow Ls.		<u>2173-78</u>	
						Cypress		<u>2201-</u>	
						"			
						Up. Pt. Creek			
						Pt. Creek Sd.			
						Lo. Pt. Creek			
						Beth-Ben			
						Up. Renault		<u>2328-</u>	
						Renault		<u>2407-</u>	
						Aux Vases			
						"			
						St. Gen.		<u>2458-</u>	
						O'hara-Rosi			
						Fredonia			
						McClosky		<u>550 2501-</u>	
						"			
						"			
						St. Louis			
						Chatt			
						Dev. Ls.			
						Silurian			
						Trenton			
						St. Peter			

DA

2019317003



FOR USE BY OIL AND GAS OPERATOR

61162



2019317004
[Barcode]

AFFIDAVIT TO TIME AND MANNER OF
PLUGGING AND FILLING WELL

As Required by Law
COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES AND MINERALS
P. O. Box 680
LEXINGTON, KENTUCKY
Oil and Gas Division

Harpie Denton
Coal Operator or Owner

Indiana Farm Bureau Coop. Ass'n., Inc.
Name of Well Operator

622 Powell Street, Henderson, Kentucky
Address

P. O. Box 271 Mt. Vernon, Indiana
Complete Address

Coal Operator or Owner

Permit No. 831-W8

Address

Well No. 2

Coal Operator or Owner

Farm Harpie Denton

Address

County Henderson, County

Affidavit to be made in triplicate, one copy to be mailed by registered mail to the Department of Mines and Minerals, one copy to be retained by the well operator and the third copy (and extra copies if required) to be mailed by registered mail to each coal operator above named at their respective addresses.

AFFIDAVIT

STATE OF KENTUCKY,

County of Henderson, Ky } ss:
L. Chinn

R. C. Berry and
being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Indiana Farm Bureau Coop., well operator, and participated in the work of plugging and filling the above well; that said work was commenced on the 16 day of December, 1958, and that the well was plugged and filled in the manner described in detail on the reverse side of this page.

The work of plugging and filling said well was completed on the 16 day of December, 1958.

L. Chinn

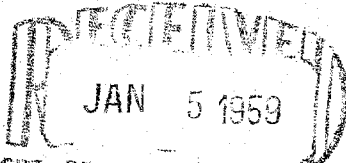
R. C. Berry

Sworn to and subscribed before me this 29 day of December, 1958

Anna May Nesmith
Notary Public

My commission expires:

11/1/59



DEPT. OF MINES AND MINERALS
COMMONWEALTH OF KENTUCKY

Well Plugged From: 2518 2435 25 sx cement
2435 625 Drlg Mud
625 540 25 sx cement
540 320 Drlg Mud
320 240 25 sx cement
240 220 Drlg Mud
220 140 25 sx cement
140 30 Drlg Mud
30 0 15 sx cement

61162

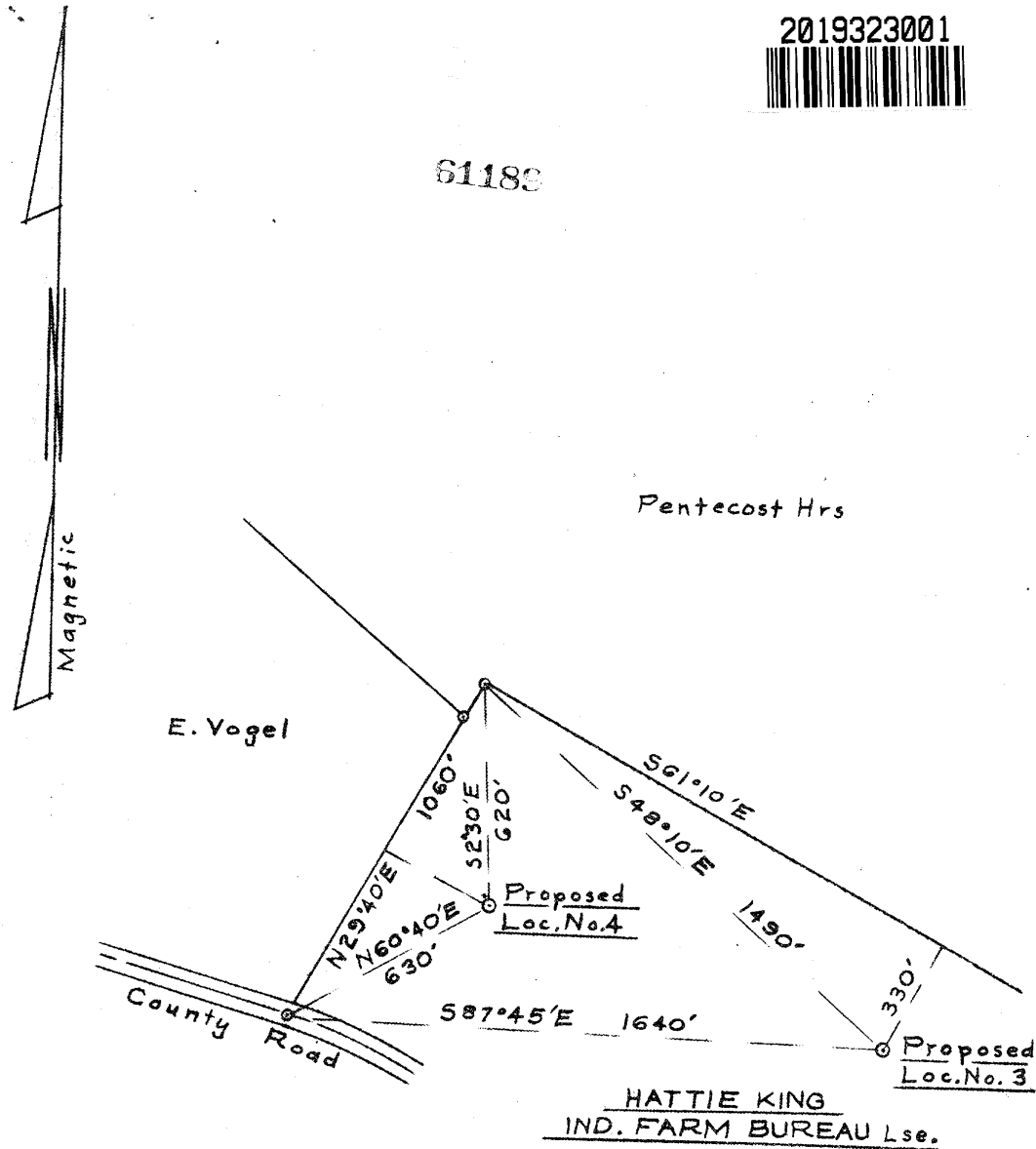


WELL LOCATION PLAT

2019323001



61188

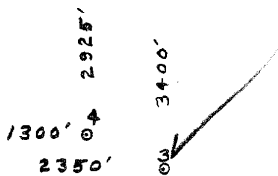


HATTIE KING
IND. FARM BUREAU Lse.

CARTER COORDINATE

15-0-24 Scale 1" = 2000'

USGS Topo



Operator Indiana Farm Bureau
 Farm Hattie King
 Well No. 3 & 4 Elevation 3-404-Gr. 4-408-Gr.
 County Henderson Kentucky
 Date 11-18-58 Scale 1"=400'
 Engineer F. E. Moran
 Address P. O. Box 663, Owensboro, Kentucky

I hereby certify that the above plat is correct to the best of my knowledge and belief.

Registered Engineer No. 1961

Serial No. _____
 State Co. Mend. Sec. 15 T. O R. 24 Pool Pool Cons. _____
 Oper. Ind. Farm Bureau Elev. _____ DF. 911 Gr. _____
 Farm King No. 4 TD. 2520PB.

LOC. LOCATION
Scout 6,400 S 780 W 0
 Farm _____
 L.&S. _____

Comm. 12-18-58 Comp. JAN 8 1959
 Remarks: RT.

CASING RECORD
 12" _____ 8" _____ 6" _____ 5" _____
 SHOT-ACID RECORD
 Date _____ From _____ To _____
3000 gal.

I. P. F. 50/24 (pre-rate) McC
 DATE _____ DRILLING RECORD
23 DEC '58 WOC

MIST
COTD
perf 50/2481-91
flc 28/hr, nat.
aid.
flc 45/hr.

PROV. IS.	TOP	DRILLER OR SAMPLE	EMBO
No. 11 Coal			2522
No. 9 Coal			
Mansfield			
Penn. Sd.			
B. Penn.			
Eiehl			
Up. Kincaid			
Lo. Kincaid			
Degonia			
Glore			
Palestine			
Up. Menard			
Menard			
Lo. Menard			1633-79
Walburg			1704-10
"			1712-21
Vienna			1777-84
T. S. (Jett)			1856-73
"			
Up. G. D.			
Lo. G. D.			
Hd. (Jones)			-1922
"			1931-51
Golconda			1977-2022
Jackson			2025-80
Barlow Is.			2130-40
Cypress			2163-73
"			2194-2220
Up. Pt. Creek			
Pt. Creek Sd.			
Lo. Pt. Creek			
Beth-Ben			
Up. Renault			
Renault			2349-
Aux Vases			
"			
St. Gen.			2454-
O'hara West			SO 2458-63
Fredonia			
McClosky			SO 2478-2513
"			
St. Louis			
Chatt			
Dev. Is.			
Silurian			
Trenton			
St. Peter			



Appendix F

Owner Interview Documentation

OWNER INTERVIEWS TRACKING SHEET
Sebree Solar II
Henderson County, Kentucky

Owner Entity/Contact Name	Contact Information	Attempts			Comments
		1st	2nd	3rd	
ABBOTT, CECILIA KING	Phone: (270) 827-0745 Email: cabbott@fieldandmain.com	9/1/2022	9/2/2022	9/13/2022	No response.
CLARY, JAMES A	Phone: (270) 577-8812 / (270) 860-8423 Email: jenniferclary10@gmail.com or claryjac@gmail.com	9/1/2022	N/A	N/A	Sam Lucente (SL) called on 9/1 and confirmed no changes since the initial Phase I ESA. Mr. Clary stated in the previous owner questionnaire that he was aware of the oil wells, tanks, and underground pipelines. He also stated that in ~1995 there was an underground pipeline release at an unknown location that required remediated/excavated soil. He was not aware of any cleanup reports.
CROWDER WILMA	Phone: (270) 860-4763 Email: dcrowder@adelphia.net	9/1/2022	9/2/2022	N/A	SL called on 9/1 and 9/2 and left a voicemail; Mr. Crowder returned the call and confirmed no changes since the initial Phase I ESA.
CROWDER, JARROD G AND LAUREN J	Phone: (270) 831-0862	9/1/2022	N/A	N/A	SL called on 9/1/2022 and confirmed no changes with Mr. Crowder.
DANIEL CHRIS & LAVETA	Phone: (270) 577-0790	9/1/2022	N/A	N/A	SL called on 9/1/2022 and left a voicemail. Mr. Daniel called on 9/1/2022 and confirmed no changes.
EBLEN JON BART & MARIE EBELEN, JON BARTON	Phone: (270) 823-2307 Email: jbeblen@bellsouth.net	9/1/2022	N/A	N/A	SL called on 9/1/2022 and confirmed no changes with Mr. Eblen. Mr. Eblen stated that the 300-gallon AST and 1,500-gallon AST have not been used for over 20 years and is not aware of any spills or releases.
GARDNER PAMELA	Phone: (270) 826-2513 Email: pamiejo@att.net	9/1/2022	9/2/2022	9/13/2022	SL called on 9/1/2022, 9/2/2022, 9/13/2022 and left voicemails; Ms. Gardner called back on 9/14/2022 and mentioned that they had a previous farmstead on the property that was torn down and at least two (2) abandoned oil wells.
HUST, VICTORIA	Phone: (802) 535-0083 Email: vshust@gmail.com	N/A	N/A	N/A	Lease is not signed; do not contact.
LEO KING FARM LLC	Phone: (812) 453-3261 or (270) 860-8300 (Nancy Hodge/daughter cell)	9/13/2022	9/14/2022	9/15/2022	SL called on 9/13, 9/14, and 9/15 and left voicemails. Ms. Nancy Hodge, daughter of the owners, returned the call and stated that there was a previous farmstead that was demolished years ago. She was not aware of any wells, septic systems, or additional information pertaining to the former farmstead.
MCMULLIN ANDERSON LLC	Phone: (859) 221-4857	9/1/2022	N/A	N/A	SL called on 9/1 and left a voicemail; Ms. Jennifer Bell called back and confirmed no changes.
NUNN DENNIS E & JUDITH NUNN DENNIS EARL NUNN FAMILY NUNN FAMILY IRREVOCABLE TRUST	Phone: (270) 860-2375	9/1/2022	N/A	N/A	SL called on 9/1/2022 and confirmed no changes with Mr. Nunn.
STEINWACHS, JAMES M	Phone: (270) 823-6722	9/1/2022	N/A	N/A	SL called on 9/1 and left a voicemail. Mr. Steinwachs returned the call and stated that there are two (2) non-active oil wells on the Subject Property. No additional environmental concerns were identified.
SUGG MARY ANN	Phone: (270) 860-2336	9/13/2022	9/14/2022	9/15/2022	No response.
WHITMORE CAROLYN WHITMORE DONALD R WHITMORE DONALD R EST & CAROLINE (HENDERSON COUNTY PVA IS SHOWING LAVETA DANIEL AS PRIMARY OWNER)	Phone: (270) 577-0790	9/12/2022	N/A	N/A	SL called on 9/1 and left a voicemail. Mr. Daniel called on 9/1 and confirmed no changes.

Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for Parcel(s): _____

Parcels # 61-31, 61-29, 61-30, 61-37, 61-39, 61-52

Owner Name: Chris Daniel (phone-interview) Phone No.: 270-577-0790

1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain: Nat gas pipeline. Former oil/gas - no releases wells

7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: Chris Daniel
Signature: phone interview
Title: son-in-law (owner recently deceased)
Relationship to the site: Family member for past 30 years
Date: 11/20/20 11AM

Please return a copy of the completed Owner Environmental Questionnaire form to Environmental Consulting & Technology, Inc. (ECT) on behalf of NextEra Energy Resources Environmental Services to Ms. Maura Gibbons, ECT, 1155 Brewery Park Boulevard, Suite 115, Detroit, Michigan 48207 by November 6, 2020. An addressed pre-stamped return envelope is enclosed for your convenience.



Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for

Parcel(s): HWY 416 W (across from 9260)
Parcel number 71-48

Henderson County Ky

Owner Name: McMullin Anderson LLC Phone No.: 859 221 4857

Jennifer Anderson Bell (member)

1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain:

7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

SEE REVERSE

Owner Environmental Questionnaire



9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:

Signature:

Title:

Relationship to the site:

Date:

Jennifer Anderson Bell
Jennifer Anderson Bell
member of McMullin Anderson LLC
owner
10/27/20

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Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for

Parcel(s): 8628 ST RT 416 W Robards KY 42452

Owner Name: Dillon Crowder

Phone No.: 270-860-4763

1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain: Fuel storage tank for farm use

4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain: Texas Gas pipeline on farm oil production

7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

SEE REVERSE

Owner Environmental Questionnaire



- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:

Milton Crowder

Signature:

[Handwritten Signature]

Title:

Relationship to the site:

owner

Date:

10/27/2020

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Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for Parcel(s): _____

Parcels 59-20 + 59-30

Owner Name: Jay Clary (phone-interview) Phone No.: 270-577-8812

- 1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

- 2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

- 3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain: oil well tanks. NOT aware of releases.

- 4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

- 5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain: Small pond filled in w/ farming soil (off-site) decades ago.

- 6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain: wells, tanks, underground pipelines

- 7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

- 8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain: ~1995 unknown location
Release from underground pipeline.
Remediated/excavated soils.
Doesn't know of any cleanup reports.

- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:

Jay Clary

Signature:

phone interview

Title:

Family member

Relationship to the site:

Father is deceased. Brother now owns.

Date:

11/20/20 10:45 Am

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Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for

Parcel(s): Ed O'Fey Rd

Owner Name: Wahna Crowder Phone No.: 270-860-4767

- 1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

- 2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

- 3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

- 4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

- 5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

- 6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain:

- 7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

- 8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

SEE REVERSE



- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:

Milton Crowder

Signature:

[Handwritten Signature]

Title:

Relationship to the site:

Date:

10/27/2020

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Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for

Parcel(s): Parcel # 61-59; W N Royster RD, Henderson Co., KY

Owner Name: Jarrod & Lauren Crowder

Phone No.: 270-831-0862

- 1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

- 2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

- 3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

- 4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

- 5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

- 6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain:

- 7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

- 8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

SEE REVERSE



9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:

Jarrod Crowder

Signature:

[Handwritten Signature]

Title:

Owner of Property

Relationship to the site:

Date:

10/26/2020

Please return a copy of the completed Owner Environmental Questionnaire form to Environmental Consulting & Technology, Inc. (ECT) on behalf of NextEra Energy Resources Environmental Services to Ms. Maura Gibbons, ECT, 1155 Brewery Park Boulevard, Suite 115, Detroit, Michigan 48207 by November 6, 2020. An addressed pre-stamped return envelope is enclosed for your convenience.

FOR INTERNAL USE ONLY	
ECT Project Number:	
ECT Project Name:	
Date Received:	



Owner Environmental Questionnaire

INSTRUCTIONS: Please complete the following questions to the best of your knowledge. Any description pertaining to the location(s) of identified features would be greatly appreciated.

Section, Township & Range (with quarter) and/or Addresses: _____

Owner Name/Entity: _____

Contact Full Name & Affiliation: _____

Email Address: _____

Phone No.: _____

Other Site Personnel (Name & Contact Information): _____

1) How long have you owned and/or been affiliated with the property? _____

2) What are the CURRENT uses of the property? _____

3) What are the PAST uses of the property? _____

4) What is the approximate age (or construction date) and size /square footage of current structure(s)? _____

5) If the property is currently vacant or undeveloped, do you know of any prior improvements? If yes, please describe. NO YES

6) Are you aware of any current or previous wells or septic systems? If yes, please provide approximate location(s). NO YES

Owner Environmental Questionnaire



7) Do any utilities currently service the property? If yes, please specify. NO YES

8) Are you aware of any storage, use, generation, or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides, or related regulated chemicals? If yes, please explain. NO YES

9) Are you aware of any underground or aboveground storage tanks for any chemicals or petroleum products currently or historically located on the property? If yes, please explain and specify underground or aboveground. NO YES

10) Has the property been used as a waste landfill, dump, or disposal site? If yes, please identify and explain. NO YES

11) Are you aware of any fill material that has been placed on the property? If yes, please specify and indicate source of material. NO YES

12) Are you aware of any current or former oil or gas wells, or associated tanks/pipelines on the property? If yes, please identify and explain. NO YES

13) Are you aware of any current or former (i.e., filled) pits, ponds, or lagoons located on the property? If yes, please describe. NO YES

14) Are you aware of any past cattle dipping vats on the property? NO YES

15) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater, or surface waters? If yes, please describe. NO YES

Owner Environmental Questionnaire



16) Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the property? NO YES

17) Are you aware of any past environmental assessment report(s) prepared for the property? If yes, are you able to provide a copy of the prior report(s)? NO YES

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: _____ Title/Company: _____
(If applicable)

Signature: _____ Date: _____

Relationship to site: _____

Please return a copy of the completed Owner Environmental Questionnaire form to **Environmental Consulting & Technology, Inc (ECT)** at:

Email (preferred):	LLandin@ectinc.com
Fax:	517-272-9703
Mailing Address:	ECT, Attn: Lisa Zuber 3125 Sovereign Drive Suite 9C Lansing, MI 48911-4240
Questions? Please contact Lindsay Landin with ECT at 717-799-7960.	



WANT TO COMPLETE ELECTRONICALLY?

Please scan the QR code with your smartphone camera to be directed to the online form, or go to: <https://forms.office.com/r/Xgm2P6enzr>

Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for Parcel(s): _____

Parcels #61-33, 61-32, 61-34, 71-46.2

Owner Name: Jon Bart Eblen Phone No.: 270-823-2307
(phone interview)

- 1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

- 2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

- 3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

- 4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

- 5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

- 6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain:

- 7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

- 8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: Bart Eblen
Signature: phone interview
Title: Owner
Relationship to the site: Owner
Date: 11/20/20 11:35am

Please return a copy of the completed Owner Environmental Questionnaire form to Environmental Consulting & Technology, Inc. (ECT) on behalf of NextEra Energy Resources Environmental Services to Ms. Maura Gibbons, ECT, 1155 Brewery Park Boulevard, Suite 115, Detroit, Michigan 48207 by November 6, 2020. An addressed pre-stamped return envelope is enclosed for your convenience.



Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for

Parcel(s): 6635 Hwy 1299 - 2155 Hwy 1299 - 45 Hwy 41

Owner Name: ARNAIS KUMAR Phone No.: 270-866-2375

1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain: small section Gas line Natural Gas

7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

SEE REVERSE

Owner Environmental Questionnaire



- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes ~~NO~~

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes ~~NO~~

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: Dennis Glavin

Signature: Dennis Glavin

Title: OWNER

Relationship to the site: OWNER

Date: 10-22-20

Please return a copy of the completed Owner Environmental Questionnaire form to Environmental Consulting & Technology, Inc. (ECT) on behalf of NextEra Energy Resources Environmental Services to Ms. Maura Gibbons, ECT, 1155 Brewery Park Boulevard, Suite 115, Detroit, Michigan 48207 by November 6, 2020. An addressed pre-stamped return envelope is enclosed for your convenience.



Owner Environmental Questionnaire

Site Name: Sebree Solar Project, Kentucky

Section, Township & Range (with quarter); Parcel Identification Number; and/or Addresses for

Parcel(s): 7053 STATE ROUTE 283 IN HENDERSON COUNTY

8809 Old Knoblick Rd HENDERSON + WEBSTER COUNTY

Owner Name: James M. Steenwade Inc Phone No.: 270 823-6722

1) To the best of your knowledge, has the site land parcel(s) ever been used for an industrial purpose or manufacturing? Yes No

If yes, please identify and explain:

2) To the best of your knowledge, has there ever been any large quantity storage, use, generation or disposal of automotive, industrial or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals (this excludes routine practices associated with on-site farms)? Yes No

If yes, please identify and explain:

3) To the best of your knowledge, has the site land parcel(s) maintained registered or unregistered underground or aboveground storage tanks (greater than 550 gallons) for chemical, petroleum or other regulated substance storage? Yes No

If yes, please identify and explain:

4) To the best of your knowledge, has the site land parcel(s) been used as a waste landfill, dump or disposal site? Yes No

If yes, please identify and explain:

5) To the best of your knowledge, are there any pits (including former or current mines), ponds or lagoons located on the site land parcel(s) currently or formerly, which have been infilled? Yes No

If yes, please identify and explain:

6) Are you aware of any oil-gas wells and associated storage tanks/pipelines on the site land parcel(s)? Yes No

If yes, please identify and explain:

7) Are you aware of any past cattle dipping vats on the site land parcel(s)? Yes No

8) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater or surface waters? Yes No

If yes, please identify and explain:

SEE REVERSE

- 9) Are you aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site land parcel(s)? Yes No

If yes, please identify and explain:

- 10) Are you aware of any past environmental assessment report(s) prepared for the site land parcel(s)? If yes, are you able to provide a copy of the prior reports? Yes No

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By:

JAMES M. STEINWACHS SR

Signature:

James M Steinwachs Sr

Title:

OWNER

Relationship to the site:

I HAVE THE OWNER FOR 50 YEARS

Date:

12-1-2020

Please return a copy of the completed Owner Environmental Questionnaire form to Environmental Consulting & Technology, Inc. (ECT) on behalf of NextEra Energy Resources Environmental Services to Ms. Maura Gibbons, ECT, 1155 Brewery Park Boulevard, Suite 115, Detroit, Michigan 48207 by November 6, 2020. An addressed pre-stamped return envelope is enclosed for your convenience.

FOR INTERNAL USE ONLY	
ECT Project Number:	
ECT Project Name:	
Date Received:	



Owner Environmental Questionnaire

INSTRUCTIONS: Please complete the following questions to the best of your knowledge. Any description pertaining to the location(s) of identified features would be greatly appreciated.

Section, Township & Range (with quarter) and/or Addresses: _____

Owner Name/Entity: _____

Contact Full Name & Affiliation: _____

Email Address: _____

Phone No.: _____

Other Site Personnel (Name & Contact Information): _____

1) How long have you owned and/or been affiliated with the property? _____

2) What are the CURRENT uses of the property? _____

3) What are the PAST uses of the property? _____

4) What is the approximate age (or construction date) and size /square footage of current structure(s)? _____

5) If the property is currently vacant or undeveloped, do you know of any prior improvements? If yes, please describe. NO YES

6) Are you aware of any current or previous wells or septic systems? If yes, please provide approximate location(s). NO YES

Owner Environmental Questionnaire



7) Do any utilities currently service the property? If yes, please specify. NO YES

8) Are you aware of any storage, use, generation, or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides, or related regulated chemicals? If yes, please explain. NO YES

9) Are you aware of any underground or aboveground storage tanks for any chemicals or petroleum products currently or historically located on the property? If yes, please explain and specify underground or aboveground. NO YES

10) Has the property been used as a waste landfill, dump, or disposal site? If yes, please identify and explain. NO YES

11) Are you aware of any fill material that has been placed on the property? If yes, please specify and indicate source of material. NO YES

12) Are you aware of any current or former oil or gas wells, or associated tanks/pipelines on the property? If yes, please identify and explain. NO YES

13) Are you aware of any current or former (i.e., filled) pits, ponds, or lagoons located on the property? If yes, please describe. NO YES

14) Are you aware of any past cattle dipping vats on the property? NO YES

15) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater, or surface waters? If yes, please describe. NO YES

Owner Environmental Questionnaire



16) Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the property? NO YES

17) Are you aware of any past environmental assessment report(s) prepared for the property? If yes, are you able to provide a copy of the prior report(s)? NO YES

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: _____ Title/Company: _____
(If applicable)

Signature: _____ Date: _____

Relationship to site: _____

Please return a copy of the completed Owner Environmental Questionnaire form to **Environmental Consulting & Technology, Inc (ECT)** at:

Email (preferred):	LLandin@ectinc.com
Fax:	517-272-9703
Mailing Address:	ECT, Attn: Lisa Zuber 3125 Sovereign Drive Suite 9C Lansing, MI 48911-4240
Questions? Please contact Lindsay Landin with ECT at 717-799-7960.	



WANT TO COMPLETE ELECTRONICALLY?

Please scan the QR code with your smartphone camera to be directed to the online form, or go to: <https://forms.office.com/r/Xgm2P6enzr>

Appendix G

State/Local Interview Documentation

Freedom of Information Act (FOIA) Requests Tracking Sheet

Sebree II Solar

Henderson County, Kentucky

Agency Name	Contact Name & Title (if known)	Method of Inquiry	Attempts			Comments
			1st	2nd	3rd	
COUNTY AGENCIES						
Green River District Health Department	Clayton Horton, Public Health Director	Clayton.Horton@grhd.org	9/20/2022	N/A	N/A	No records available associated with the properties.
MUNICIPAL/LOCAL AGENCIES						
Robards Community Fire Department	Chief W. David Denton	w_denton@bellsouth.net	9/20/2022	N/A	N/A	No records available associated with the properties.

From: [Cory Doucet](#)
Sent: Wednesday, September 21, 2022 11:10 AM
To: [Beth Jarvis](#)
Cc: [Smith Whitney](#); [Clay Horton](#)
Subject: Re: Records Request - Henderson County

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Beth,

Based on the information you provided us, we were unable to locate any records associated with the properties contained in the parcel listing.

Regards,
Cory Doucet

On Tue, Sep 20, 2022 at 1:51 PM Clay Horton <clayton.horton@grdhd.org> wrote:

Please review and see if we have any related documents.

Clay Horton
Public Health Director
Green River District Health Department
(270) 852-5569

----- Forwarded message -----

From: **Beth Jarvis** <bjarvis@ec.nc.com>
Date: Tue, Sep 20, 2022 at 12:55 PM
Subject: Records Request - Henderson County
To: Clayton.Horton@grdhd.org <Clayton.Horton@grdhd.org>

Good afternoon,

We are conducting a Phase I Environment Site Assessment for property in Henderson County, Kentucky. Please see the attached file which outlines the records we are requesting along with a general site map and parcel listing.

I appreciate your assistance. If no records are available, please let me know.

Thank you,

Beth A. Jarvis

Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.

1408 North Westshore Boulevard | Suite 115 | Tampa, Florida 33607
Main: 813-289-9338 | Direct: 813-549-4338 | Cell: 813-857-5567

--

Cory Doucet, R.S.
Health Environmentalist
Green River District Health Department
472 Klutey Park Plaza Drive
Henderson, KY 42420
(270) 826-3951 ext. 1005



TELL US HOW WE'RE DOING!

<https://www.surveymonkey.com/r/JSNL6HR>

**This message and any attachment may contain PRIVILEGED AND CONFIDENTIAL INFORMATION intended for the use of the above addressee. If you are not the intended recipient, you are hereby notified that any dissemination or copying of this message or any attachment is strictly prohibited and should be deleted from your system. If you received this message in error, please notify the sender at the Green River District Health Department:*

270-686-7747 or fax at 270-926-9862.

www.healthdepartment.org

From: [WILLIAM DAVID DENTON](#)
Sent: Thursday, September 22, 2022 6:33 PM
To: [Beth Jarvis](#)
Subject: Re: Records Request - Henderson County

Follow Up Flag: Follow up
Flag Status: Flagged

I have no records for this.

On Tuesday, September 20, 2022 at 12:49:47 PM CDT, Beth Jarvis <bjarvis@ectinc.com> wrote:

Good afternoon,

We are conducting a Phase I Environment Site Assessment for property in Henderson County, Kentucky. Please see the attached file which outlines the records we are requesting along with a general site map and parcel listing.

I appreciate your assistance. If no records are available, please let me know.

Thank you,

Beth A. Jarvis

Senior Project Coordinator | Site Assessment & Remediation

Environmental Consulting & Technology, Inc.

1408 North Westshore Boulevard | Suite 115 | Tampa, Florida 33607

Main: 813-289-9338 | Direct: 813-549-4338 | Cell: 813-857-5567

Appendix H

Photographic Documentation

Description

View of the northern portion of the Subject Property, situated south of Meahl Cates Rd.



Description

View of the eastern portion of the Subject Property, situated to the northeast of State Highway 283



Description

View of the southern portion of the Subject Property, situated to the west of W N Royster Rd.



Description

View of the western portion of the Subject Property, situated north of KY-1299



Description

Typical view of the ponds situated on the Subject Property



Description

View of the solar panel testing station observed on Subject Property



Description

Typical view of the gas and petroleum pipeline markers observed throughout the Subject Property



Description

View of the debris pile on the Subject Property, situated south of Meahl Cates Road



Description

View of the house siding debris pile observed on the Subject Property, situated to the south of Cherry Hill Rd.

**Description**

Typical view of the pole transformers observed throughout the Subject Property and adjoining properties



Description

View of the on-site, pole-mounted transformer with staining, situated west of Spencer Thornberry Rd.



Description

View of the oil well on Subject Property, situated to the northwest of KY-1299



Description

View of the oil well on the northern portion of the Subject Property, situated south of Meahl Cates Rd.



Description

View of the oil ASTs on the northern portion of the Subject Property, situated to the south of Meahl Cates Rd.



Description

View of the oil ASTs observed on the western portion of the Subject Property, situated north of KY-416



Description

View of the scrap ASTs observed on Subject Property, situated south of Cherry Hill Rd.



Description

View of the fuel AST observed near the residence on Subject Property, situated to the northwest of KY-1299



Description

Typical view of the fuel ASTs observed on the Subject Property and adjoining properties



Description

Typical view of the propane ASTs observed throughout the Subject Property and adjoining properties



Description

Typical view of the burn drums observed near the residences on Subject Property



Description

View of the empty drums observed in the barn situated on the northern portion of the Subject Property

**Description**

View of the empty unlabeled drums observed on Subject Property, situated to the west of Spencer Thornberry Rd.



Description

View of the general refuse, tires, and scrap pile observed on Subject Property, situated to the west of Spencer Thornberry Rd.

**Description**

View of the railway and electrical transmission lines that traverse the eastern portion of the Subject Property



Description

View of the northern adjoining property to the Subject Property, situated to the north of Meahl Cates Rd.



Description

View of the eastern adjoining properties to the Subject Property, situated to the southeast of State Hwy 283



Description

View of the southern adjoining properties to the Subject Property, situated to the west of W N Royster Rd.

**Description**

View of the western adjoining properties to the Subject Property, situated to the southwest of KY-416



Description

View of the oil ASTs and tank battery situated to the south of the Subject Property along W N Royster Rd.



Description

View of the oil ASTs and tank batteries observed on the northern adjoining property to the Subject Property, situated along Meahl Cates Rd.



Description

View of the railroad tie pile observed along the railway that traverses the eastern portion of the Subject Property

**Description**

View of the MET tower observed on the eastern adjoining property to the Subject Property



Appendix I

Resumes of Environmental Consultants

> Rebecca M. Powell

Due Diligence Practice Leader

Ms. Powell has more than ten years of professional experience in the environmental consulting industry. She is a specialist in environmental due diligence in support of nationwide wind, solar, and commercial/industrial developments. Ms. Powell has assessed more than two million acres of property for wind and solar development spanning dozens of states. As an Environmental Professional (EP), Ms. Powell has overseen the completion of multiple facets of due diligence (i.e., Phase I ESAs, Phase II subsurface investigations, desktop environmental reviews, and critical environmental issues analysis) for hundreds of wind and solar projects and thousands of commercial real estate transactions to date.



PREVIOUS CAREER EXPERIENCE

August Mack Environmental, Inc. | Glenview, IL & Livonia, MI

Maintained multiple high-yield corporate accounts as primary consulting contact for lender, attorney, and developer clients. Managed personnel, budgeting, and completion of environmental due diligence and remediation services for hundreds of commercial, industrial, and renewable energy projects. Demonstrated proficiency and advised legal counsel regarding CERCLA liability protections and ASTM E1527 and ASTM E2247 standards and provided research and application of multiple state and federal regulations. Hosted continuing legal education (CLE) credit courses regarding wind and solar development processes, field techniques, State-specific remediation programs, and various ASTM Standards.

AEI Consultants | Chicago, IL

Managed the completion of environmental due diligence tasks for hundreds of commercial transactions and utility-scale wind/solar projects. Trained field staff with environmental sampling techniques and underground storage tank (UST) removal processes. Interpreted clients' risk tolerance levels and assisted project developers with de-risking proposed locations of infrastructure within areas of environmental impact while maintaining CERCLA liability protections.

Atwell, LLC | Southfield, MI

Assisted with several hundred Phase I ESAs consisting of individual parcels to multi-county area studies. Served as a field geologist for multiple remediation projects across the Midwest. Conducted soil, groundwater, and soil vapor sampling and directed subcontractors on investigation projects in Michigan, Indiana, and Ohio. Prepared Baseline Environmental Assessments for contaminated property in Michigan.

LTBB Odawa Indians | Harbor Springs, MI

Attended EPA, State and Tribal hosted trainings and conferences as part of the CERCLA 128(a) grant funding. Oversaw Phase I & II completion on trust property. Generated quarterly and annual progress reports for EPA review and provided opportunities for Tribal community outreach and education.

EDUCATION

Graduate Coursework related to Sustainability & Natural Resource Management
University of Connecticut
B.S., Hydrogeology
Central Michigan University

CREDENTIALS/AFFILIATIONS

Member of Women of Renewable Industries and Sustainable Energy
Member of American Institute of Professional Geologists
Licensed Asbestos Inspector (MI & OH)
40-hour OSHA HAZWOPER Certified

AREAS OF EXPERTISE

All Appropriate Inquiries
Landowner Liability Protections
ASTM E2247 & E1527
Environmental Sampling
Groundwater Monitoring
Risk-Based Corrective Action
Remediation & Mitigation Programs
Technical Reporting

> Gregory Nahlik

Technical Writer

Mr. Nahlik has four years of professional experience in the environmental consulting industry. He is a specialist in the research and authoring of over a thousand transactional due diligence reports for projects across the United States. Mr. Nahlik's expertise ranges from traditional commercial/industrial due diligence to wind, solar, and energy storage projects ranging in size from one acre to 75,000 acres. He is an expert of numerous due diligence reporting formats, including but not limited to Phase I ESAs and desktop environmental reviews.



PREVIOUS CAREER EXPERIENCE

Technical Report Writer | Technical Report Writer III

August Mack Environmental, Inc. | Indianapolis, IN

Coordinated, managed, and prepared ASTM E1527 and ASTM E2247 compliant Phase I ESAs for hundreds of commercial, industrial, and small to large-scale renewable energy projects. Conducted historical and regulatory agency research and landowner interviews, as well as interviews of local and state government to establish regulatory compliance status and define permitting requirements for construction and development. Prepared and peer reviewed numerous desktop reviews, Transaction Screen Assessments, and other client-specific Phase I ESA variations. Trained due diligence technical writers.

Communications Assistant | Center for Science of Information, NSF STC, Purdue University

Created drafts for web page designs. Created spreadsheets for student documentation. Interviewed researchers for interview articles. Edited and formatted sections of the annual report. Edited film using Final Cut Pro. Posted articles and events using ProcessWire.

EDUCATION

B.A., Professional Writing
Purdue University

AREAS OF EXPERTISE

All Appropriate Inquiries
ASTM E2247 & E1527
Technical Reporting
Historical Research
Regulatory Research
Project Management
Site Assessments

> Sam Lucente

Program Manager

Mr. Lucente has more than five years of professional experience in the environmental consulting industry. He is a specialist in environmental due diligence with hands on experience on over one million acres of wind, solar, and commercial/industrial developments nationwide. Mr. Lucente has produced, completed, and reviewed a variety of due diligence reports (i.e., Phase I ESAs, Phase II subsurface investigations, and desktop environmental reviews) for hundreds of projects within tight timeframes. Currently, Mr. Lucente is working towards using his environmental passion to improve himself within the environmental consulting industry.



PREVIOUS CAREER EXPERIENCE

Regulatory Compliance Services | August Mack Environmental Rockford, IL

Coordinated and conducted indoor air sampling to ensure the safety of employees and abide by regulatory exposure limits. Developed exposure maps to identify areas of concern within a facility. Analyzed data collected from sampling events to work with clients on different cost-effective solutions. Conducted monthly inspections for ECAP clients for regulatory compliance.

Site Assessment | August Mack Environmental | Nationwide

Conducted American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessments (ESAs) at numerous sites undergoing acquisition, divestiture, or refinancing, including industrial and commercial buildings and undeveloped sites. Managed multiple environmental due diligence portfolios for a variety of industrial, commercial, renewable energy properties. Provided numerous clients with SBA required Environmental Records Search with Risk Assessment report documenting records review activities conducted for the properties. The scope of work included a review of Sanborn Fire Insurance Maps, historical topographic maps, historical aerial photographs, a city directory abstract and an Environmental Data Resources, Inc. (EDR) Radius Map report.

Subsurface Investigation | August Mack Environmental Illinois, Indiana, Texas, Oklahoma, and Wisconsin

Conducted subsurface investigations in Illinois, Indiana, Texas, Oklahoma, and Wisconsin. Activities included preparing investigation and remediation work plans, managing field activities, and soil/groundwater fate and transport modeling (e.g., Illinois TACO). Coordinated and conducted a soil, groundwater and soil gas investigations associated with potential vapor intrusion (VI). Activities included sampling indoor air and ambient air for volatile organic compounds (VOCs), evaluating sampling results, and implementing vapor mitigation system installation activities.

EDUCATION

B.A., Environmental Geoscience
DePauw University

CREDENTIALS

OSHA 40 Hour Hazwoper, IN
Asbestos Building Inspector

AREAS OF EXPERTISE

All Appropriate Inquiries
Landowner Liability Protections
ASTM E2247 & E1527
Environmental Sampling
Groundwater Monitoring
Risk-Based Corrective Action
Remediation & Mitigation Programs
Technical Reporting

March 20, 2023
ECT No. 220483

Mr. Brian Bartels
Sebree II Solar, LLC
700 Universe Boulevard
Juno Beach, Florida 33408

**Re: Phase I Environmental Site Assessment
Sebree II Solar Project
Southwest of the KY-283 and KY-416 Intersection
Henderson County, Kentucky**

Dear Mr. Bartels:

Environmental Consulting & Technology, Inc. (ECT) is pleased to provide this Phase I Environmental Site Assessment (ESA) for the above-referenced property. This assessment was performed in accordance with the ASTM Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process for Forestland or Rural Property (E2247-16). This Phase I ESA is valid through September 14, 2023, after which time certain components of this report may need to be updated. The date(s) of the most recent searches for environmental liens may alter this viability date. We appreciate the opportunity to work with you. Please feel free to contact us at 734.769.3004 should you have any questions concerning this report, or if we may assist you in any other matter.

Sincerely,

Environmental Consulting & Technology, Inc.



Guadalupe Cummins
Technical Writer



Nicole Rockentine
Geologist, RG

> **Phase I Environmental Site Assessment
of the Sebree II Solar Project
Henderson County, Kentucky**

March 20, 2023
ECT No. 220483

for
Sebree II Solar, LLC
700 Universe Boulevard
Juno Beach, Florida 33408



3720 Wilder Road Unit B
Bay City, Michigan 48706
734.769.3004

Environmental Professional Statement

I, Nicole Rockentine, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR §312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. All elements of this Phase I ESA have been completed by me or persons under my direct supervision. For the sake of brevity, any references herein to the "Environmental Professional" or "EP" shall refer directly to me. Any references to "ECT" shall refer to me and/or those persons under my direct supervision.

A copy of the EP's resume and those directed by the EP in the completion of this assessment are included in the appendices ([Resumes of Environmental Consultants](#)).



Nicole Rockentine

Geologist, RG

Environmental Professional

PROJECT SUMMARY TABLE

Sebree II Solar Project Southwest of the KY-283 and KY-416 Intersection Henderson County, Kentucky

Report Section	None	REC	CREC	HREC	DMC	Comments
3.0 Subject Property and Vicinity Descriptions	✓					
4.0 User Provided Information	✓					
5.0 Historical Review		✓				REC #1: Long-term oil/gas well exploration and production on-site.
6.0 Regulatory Database Review		✓				REC #1: see above.
7.0 Regulatory Agency Records Review		✓				REC #1: see above.
8.0 Interviews		✓				REC #1: see above.
9.2 Observed Hazardous Substances and/or Petroleum Products		✓				REC #1: see above.
9.3 Aboveground Storage Tanks	✓					
9.4 Electrical or Hydraulic Equipment Likely to Contain Fluids	✓					
9.5 Stained Soil or Pavement		✓				REC #1: see above.
9.6 Pits, Ponds, Ditches, Streams, or Lagoons		✓				REC #1: see above.
9.7 Solid Waste Disposal, Fill Materials, or Debris	✓					BER #1: Piles of discarded materials encountered in wooded areas in the northern and western portions of the Subject Property.
9.8 Wells		✓				REC #1: see above.
9.9 Septic Systems	✓					
9.10 Other Field Observations	✓					

Table of Contents

1.0	Executive Summary	1
1.1	Property Description	1
1.2	Evaluation	1
1.2.1	Findings and Opinions	1
1.2.2	Conclusion	2
1.2.3	Additional Investigation	3
1.2.4	Data Failure and Data Gaps	3
2.0	Purpose and Scope of Work	5
2.1	Scope of Work	5
2.2	Continued Viability of Phase I ESA	6
2.3	Significant Assumptions	7
2.4	Limitations and Exceptions	7
2.5	Limiting Conditions and Deviations	8
2.6	Special Terms and Conditions	8
2.7	User Reliance	9
3.0	Subject Property and Vicinity Descriptions	10
3.1	Subject Property Characteristics	10
3.2	Vicinity Characteristics	11
3.3	Physical Setting	12
4.0	User Provided Information	13
4.1	Reason for Performing Phase I ESA	14
5.0	Historical Review	15
5.1	Historical Sources Reviewed	15
5.2	Subject Property Historical Summary	16
5.3	Surrounding Area Historical Summary	16
5.4	Prior Environmental Reports	16
6.0	Regulatory Database Review	18
6.1	Database Finding Summary	18
6.2	Subject Property Listings	19
6.3	Surrounding Properties	19
6.4	Unmappable Properties	20
7.0	Regulatory Agency Records Review	21

7.1	State Environmental Agency	21
7.2	Oil and Gas Pipelines/Wells	21
7.3	Mining and Mineral Exploration	25
8.0	Interviews	26
8.1	Past and Present Owners	26
8.2	State and/or Local Government Officials	28
9.0	Site Reconnaissance	29
9.1	Subject Property Reconnaissance Summary	30
9.2	Observed Hazardous Substances and/or Petroleum Products	30
9.2.1	In Connection with Property Use	30
9.3	Aboveground Storage Tanks	30
9.4	Electrical or Hydraulic Equipment Likely to Contain Fluids	31
9.5	Stained Soil or Pavement	31
9.6	Pits, Ponds, Ditches, Streams, or Lagoons	31
9.7	Solid Waste Disposal, Fill Materials, or Debris	31
9.8	Wells	32
9.9	Septic Systems	32
9.10	Other Field Observations	32
10.0	Non-Scope Considerations	33
11.0	References	34

Appendices

Appendix A	Figures
Appendix B	Property Records
Appendix C	User Provided Information
Appendix D	Environmental Lien/AUL Reports
Appendix E	Historical Sources
Appendix F	Regulatory Database Report
Appendix G	Regulatory Agency Documentation
Appendix H	Owner Interview Documentation
Appendix I	State/Local Interview Documentation
Appendix J	Photographic Documentation
Appendix K	Resumes of Environmental Consultants

Common Acronyms and Abbreviations

AST	Aboveground Storage Tank
AAI	All Appropriate Inquiry
AUL	Activity and Use Limitation
API	American Petroleum Institute
ACM	Asbestos-Containing Material
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
BER	Business Environmental Risk
CESQG	Conditionally Exempt Small Quantity Generator
COC	Constituent of Concern
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CREC	Controlled Recognized Environmental Condition
DMC	<i>De Minimis</i> Condition
ECHO	Enforcement and Compliance History Online
ECT	Environmental Consulting & Technology, Inc.
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FRS	Facility Registry Service
FOIA	Freedom of Information Act
HREC	Historical Recognized Environmental Condition
LLP	Landowner Liability Protection
LQG	Large Quantity Generator
LBP	Lead-Based Paint
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
MTBE	Methyl tert-butyl ether
µg/L	Micrograms per Liter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
NPL	National Priority List
NPMS	National Pipeline Mapping System
NWIS	National Water Information System
NFA/NFR	No Further Action/Remediation
NOV	Notice of Violation
NRCS	Natural Resources Conservation Service
PPB	Parts per Billion
PPM	Parts per Million
PID	Photoionization Detector
PCE	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene, PERC
PIN	Parcel Identification Number
PCB	Polychlorinated Biphenyls
PAH	Polycyclic Aromatic Hydrocarbon
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SDS	Safety Data Sheet
SVOC	Semi-Volatile Organic Compound
SDG	Significant Data Gap
SQG	Small Quantity Generator
SEMS	Superfund Enterprise Management System
SWF/LF	Solid Waste Facilities/Landfill
TCE	Trichloroethylene, Trichloroethene
TPH	Total Petroleum Hydrocarbons
TSDF	Treatment, Storage or Disposal Facility
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VSQG	Very Small Quantity Generator
VOC	Volatile Organic Compound

1.0 Executive Summary

Environmental Consulting & Technology, Inc. (ECT) was retained by Sebree II Solar, LLC (the Client) to conduct a Phase I ESA in conformance with the scope and limitations of the ASTM Standard Practice E2247-16 (Forestland or Rural Properties) and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located southwest of the KY-283 and KY-416 intersection in Henderson County, Kentucky. Any exceptions to, or deletions from, this practice are described in [Section 1.2.4](#) and [Section 2.5](#) of this report.

1.1 Property Description

The Subject Property consists of a collection of six discontinuous parcels of leased land totaling approximately 242.3 acres of primarily agricultural land in Henderson County, Kentucky, which are being proposed for development of the Sebree II Solar Project.

A USGS Topographic Map is provided as [Figure 1](#) and a Subject Property Overview is provided as [Figure 2](#). Any RECs identified as part of this assessment are depicted on [Figure 3](#) unless otherwise noted. A copy of pertinent property assessment records is included in the appendices ([Property Records](#)).

1.2 Evaluation

1.2.1 Findings and Opinions

Based on the information revealed as part of this Phase I ESA, ECT has identified the following findings and offers the below opinions as part of this Phase I ESA:

- **Oil & Gas Exploration (REC #1):** Information obtained from the Kentucky Geological Survey (KGS) indicated oil and gas production has been present throughout the Subject Property since the mid 1940s. During the site reconnaissance, three wells were observed on Parcel 61-21 in the southwestern portion of the Subject Property, which included two active gas wells and one active oil well that exhibited staining. Other KGS-mapped wells were not observed during the site reconnaissance. Historical sources revealed the presence of several suspect disposal pits associated with oil/gas exploration or production within the Subject Property. As part of a Phase I ESA conducted in 2022 for other parcels associated with the Sebree II Solar Project but not subject of this assessment, ECT interviewed Mr. Dennis Hatfield, Director of the Oil/Gas Division of the Kentucky Energy and Environment Cabinet

(KEEC). Mr. Hatfield indicated that records of oil and gas development projects do not include information related to potential drill cutting reserve pits [i.e., disposal pits]. Information obtained from Envirosite Corporation (Envirosite) indicates one active enhanced recovery injection well is located within the Subject Property on Parcel 61-23. **Based on the likely presence of hazardous substances and/or petroleum products in connection with a release to the environment associated with the long-term use of the Subject Property for oil/gas well exploration and production, it is the opinion of the EP that this finding constitutes a REC. However, based on ECT's understanding that oil/gas infrastructure will be avoided as part of development activities, further investigation is not warranted at this time.**

The following BER has been identified as part of this assessment:

- **Refuse Piles (BER #1):** At the time of the site reconnaissance, piles of discarded materials were encountered in two sections of the Subject Property, specifically on Parcel 61-24.2 and Parcel 61-53. Each of these refuse piles consisted of partially buried household appliances, burn drums (one in each pile), retail-sized containers of maintenance fluids, several tires, scrap metal, and/or other general refuse. **Given the size of the piles and considering the type of materials observed, the lack of staining/stressed vegetation in each area, and the absence of evidence of any significant release, these refuse piles represent a Business Environmental Risk should they impede construction activities or require removal.**

1.2.2 Conclusion

Ms. Nicole Rockentine, Environmental Professional, has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E2247-16 and the 30 CFR 312 (All Appropriate Inquiry) of the Subject Property, located southwest of the KY-283 and KY-416 intersection in Henderson County, Kentucky. Any exceptions to, or deletions from, this practice are described in Section 2.5 of this report. **This assessment has revealed no evidence of RECs, CRECs, and/or SDGs, with the exception of the following:**

- **REC #1:** The likely presence of hazardous substances and/or petroleum products in connection with a release to the environment associated with the long-term use of the Subject Property for oil/gas well exploration and production, the presence of an active enhanced recovery injection well, and the presence of suspect disposal pits on-site.

1.2.3 Additional Investigation

In accordance with ASTM E2247-16, the EP shall provide an opinion as to whether additional investigation to detect the presence of hazardous substances or petroleum products is warranted. This opinion does not render the assessment incomplete, nor is it intended to represent a recommendation. **Based on ECT's understanding that oil/gas infrastructure will be avoided as part of development activities, further investigation is not warranted at this time as the RECs would not be considered applicable to the proposed development.**

1.2.4 Data Failure and Data Gaps

According to ASTM E2247-16, a data failure occurs when all the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E2247-16, historical sources are required to identify the use of the property at five-year intervals back to first developed use or 1940, whichever is earlier. A data failure is a type of data gap (defined below).

A data gap is defined by ASTM E2247-16 as a lack or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by the practice, including, but not limited to the site reconnaissance and interviews.

The following data failures and/or data gaps have been identified as part of this assessment:

- A completed User Questionnaire was not provided to ECT. However, based on the quality of information obtained from other sources (e.g., historical documentation, owner interviews, regulatory sources, site reconnaissance, etc.), ECT does not believe this represents a significant data gap.
- Although topographic maps were available dating back to 1906, historical usage information in the form of aerial photographs was not available until 1956. The ASTM standard requires that all obvious uses of the property be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. The 1952 aerial photograph revealed the Subject Property was primarily agricultural with few residential structures; therefore, this represents a data failure. However, given the nature of the Subject Property in 1952, ECT does not believe this represents a significant data gap.

- With the exception of the 1906 topographic map, historical sources began 1949 and exceeded a 5-year gap, resulting in no coverage in the late 1960s, early 1970s, late 1970s, and late 1980s. However, based on the other available aerial photographs and topographic maps, ECT believes the Subject Property remained primarily agricultural with few residential structures, and subject to oil/gas exploration activities during that time. Therefore, ECT does not believe the gaps in the historical sources are considered a significant data gap to the conclusions of this assessment.
- One historical (i.e., former) structure was observed in the eastern portion of the Subject Property. ECT was unable to verify the type of structure (e.g., living quarters, outbuilding) and whether it contained a heating source or verify its source. Based on the rural nature of the area, there is the potential for heating oil tanks to have been used as heating sources. However, it is likely that any buried heating oil tanks would have been removed during demolition activities. Therefore, ECT does not believe this represents a significant data gap.

No other data failures or data gaps were identified in this Phase I ESA.

2.0 Purpose and Scope of Work

This report documents the methods and findings of the Phase I ESA performed in conformance with the scope and limitations of ASTM Standard Practice E2247-16 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR 312) for the property located to the southwest of the KY-283 and KY-416 intersection in Henderson County, Kentucky.

2.1 **Scope of Work**

The purpose of ASTM Practice E2247-16 is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of forestland or rural properties with respect to the range of contaminants within the scope of the CERCLA (42 U.S.C. §9601) and petroleum products. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

The Phase I ESA conducted by ECT included, but was not limited to, the following services:

- A site visit of the Subject Property to look for evidence of a release(s) or potential release of petroleum products and hazardous materials;
- Observations of adjacent properties and the vicinity of the Subject Property;
- Interviews with individuals familiar with the Subject Property, as available;
- Review of regulatory agency and local files, as necessary;
- Review of historical documents, as available; and
- Preparation of a report presenting ECT's findings, including a summary of conclusions and recommendations, if requested.

The objective of Phase I ESAs is to provide all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35) (B) to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (a.k.a., landowner liability protections). The goal of Phase I ESAs is to identify current, historical, and controlled RECs and *de minimis* conditions in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E2247-16 guidelines. The terms current, historical, and controlled RECs and *de minimis* conditions are defined by ASTM in the following paragraphs.

A REC is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

A controlled REC is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

A historical REC is a past release of any hazardous substances or petroleum products that has occurred in connection with the Subject Property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Subject Property to any required controls.

A *de minimis* condition is a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* conditions are not current, historical, or controlled RECs.

A Business Environmental Risk (BER) is a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of the property, not necessarily related to those environmental issues required to be investigated in the Phase I ESA practice, including potential non-scope considerations, and often involve the presence of materials or observed debris that may impede construction activities or otherwise have to be addressed, but that are not considered RECs and do not exhibit an obvious release to the environment.

2.2 Continued Viability of Phase I ESA

According to ASTM Standard Practice E2247-16, a Phase I ESA meeting or exceeding the standard and completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid. If within

this period the assessment will be used by a User different than the User for whom the assessment was originally prepared, the subsequent User must also satisfy the User's Responsibilities outlined in Section 6 of ASTM Standard Practice E2247-16.

A Phase I ESA meeting or exceeding ASTM E2247-16 requirements and for which the information was collected or updated within one year prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction may be used provided that the below detailed components of the inquires were conducted or updated within 180 days of the date of purchase, or the date of the intended transaction. The initial collection or inquiry dates for each required component as applicable to this report have been detailed in the table below.

REPORT COMPONENT	INITIAL DATE OF COLLECTION OR INQUIRY
(i) Interviews with Owners, Operators, and Occupants	March 1, 2023
(ii) Searches for Recorded Environmental Liens	March 9, 2023
(iii) Reviews of Federal, Tribal, State, and Local Government Records	February 21, 2023
(iv) Visual Inspection of the Property and of Adjoining Properties	February 17, 2023
(v) Declaration by the EP responsible for the assessment or update	March 20, 2023

2.3 Significant Assumptions

ECT assumes that the information provided by the regulatory database electronic search report provider, the regulatory agencies, the local unit of government, and the current Subject Property owner(s) is true and reliable.

2.4 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ECT and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon any information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally

prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

The findings presented in this report apply solely to site conditions existing at the time when ECT's assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of determining the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the Subject Property may vary from those at the locations where data were collected. ECT's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in ESA conclusions cannot reasonably be achieved.

ECT, therefore, does not provide any guarantees, certifications, or warranties that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

2.5 Limiting Conditions and Deviations

No limiting conditions and/or deviations were encountered as part of this Phase I ESA.

2.6 Special Terms and Conditions

The scope of work for this Phase I ESA did not include testing of electrical equipment for the potential presence of PCBs, lead-based paint, or the assessment of natural hazards such as naturally occurring asbestos, radon, or methane gas, assessment of the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the Subject Property or of the businesses that have operated on-site, or a health-based risk assessment.

2.7 User Reliance

This Phase I ESA was conducted for the use of and reliance by Sebree II Solar, LLC and their assignees and may be relied upon by these parties only. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

3.0 Subject Property and Vicinity Descriptions

3.1 Subject Property Characteristics

A summary of the Subject Property is included in the table below.

SUBJECT PROPERTY DETAILS	
Project Name	Sebree II Solar Project
Location	Southwest of the KY-283 and KY-416 Intersection, Henderson County, Kentucky Parcel IDs: 61-8.1, 61-8, 61-24.2, 61-23, 61-21, 61-53. A copy of pertinent property assessment records is included in the appendices (Property Records).
Approximate Acreage	242.3 <small>Source: County Assessor, Sebree II Solar, LLC</small>
Current Use	Primarily agricultural with occasional residences, outbuildings, areas of oil/gas production.
Proposed Use	Sebree II Solar Site
Areas of Environmental Interest	Oil/gas wells, enhanced recovery injection wells, pipelines, refuse piles (Refer to Sections 5.2 , 6.2 , 7.2 , 9.2 , 9.4 , 9.5 , 9.6 , 9.7).
Observed Use of Hazardous Substances	Petroleum products (Refer to Section 9.2).
UTILITY INFORMATION	
Heating/Cooling Source	Presumed propane for current residences.
Potable Water Source	Presumed potable water wells for current residences.
Sewage Disposal Provider	Presumed septic systems for current residences.
REGULATORY INFORMATION	
Regulatory Database Listings	UIC-KY
Activity and Use Limitations (AULs)	None identified
Environmental Liens	None identified

The Subject Property consists of a collection of six discontinuous parcels of leased land totaling approximately 242.3 acres of primarily agricultural land in Henderson County, Kentucky, which are being proposed for development of the Sebree II Solar Project. A USGS Topographic Map is provided as [Figure 1](#) and a Subject Property Overview is provided as [Figure 2](#).

The Subject Property is predominantly used for agricultural purposes and situated in an area of agricultural development and oil/gas exploration with sparse residences. Easements for overhead electrical transmission lines traverse the central, eastern, and southern portions; an easement for one underground hazardous liquid pipelines transects the northwestern portion of the Subject Property. Thomason Road and W N Roystern Road traverse and/or border the Subject

Property. Other areas of note in the general vicinity of the Subject Property include the city of Robards (1.6 miles northeast); the unincorporated community of Poole (2.6 miles southwest); and the city of Sebree (4.2 miles southeast).

3.2 Vicinity Characteristics

A summary of the surrounding properties is included in the table below.

DIRECTION	OCCUPANT(S)/USE(S)	REGULATORY DATABASE LISTING(S)
North	Agricultural and residential; oil/gas production	UIC - KY
South	Agricultural and residential; oil/gas production	None
East	Agricultural and residential; oil/gas production	None
West	Agricultural and residential; oil/gas production	None

Refer to [Section 6.0](#) for a discussion of regulatory database listings.

3.3 Physical Setting

The physical setting of the Subject Property is described in the table below.

TOPOGRAPHY	
USGS Topographic Quadrangle	<i>Robards, Kentucky</i> (2019)
Approximate Elevation	433 feet above sea level
Nearest surface water	Groves Creek and unnamed tributaries
<small>Source(s): USGS and Database report</small>	
SOILS	
Soil Classification	Alford, Belknap, Hosmer, Uniontown, Wellston, and Zanesville series
Soil Type	Silt loams
Drainage Class	Well and moderately well drained and somewhat poorly drained
<small>Source(s): USDA-NRCS Web Soil Survey</small>	
GEOLOGY	
Physiographic Area/Region	Western Kentucky Coal Field (Physiographic Region); Green River-Southern Wabash Lowlands in the Interior River Valleys and Hills (Ecoregion)
Geologic Formation	Sturgis and Alluvium Formations
Bedrock	Middle to Upper Pennsylvanian-age siltstone and Pleistocene to Holocene-age sand
<small>Source(s): Kentucky Geological Survey; U.S. EPA; USGS (Noger MC 1988)</small>	
HYDROLOGY	
Estimated Groundwater Flow¹	Inferred east towards Groves Creek and its tributaries
Estimated Depth to Groundwater	12 to 33 inches below ground surface
<small>Source(s): USGS and USDA-NRCS Web Soil Survey</small>	

1. Groundwater flow direction can be influenced by the presence of wetland features, surface topography, recharge and discharge areas, inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells.

4.0 User Provided Information

The User of this report is Sebree II Solar, LLC. Mr. Jason Andrews, authorized person for Sebree II Solar, LLC, provided a completed User Questionnaire as part of this assessment. The responses to the questionnaire have been summarized in the table below. A copy of the completed User Questionnaire is included in the appendices ([User Provided Information](#)).

At the direction of the User, ECT contracted AFX Research, LLC to conduct a search of environmental liens and AULs for five of the six parcel within the Subject Property boundary, 61-8.1, 61-8, 61-23, 61-21, and 61.53. A total of five Environmental Lien/AUL Reports, dated March 9, 2023, were reviewed, of which none identified any environmental liens or AULs for the signed leases. Copies of the Environmental Lien/AUL Reports are included in the appendices ([Environmental Lien/AUL Reports](#)).

QUESTIONS	YES	NO	COMMENTS
Did a search of recorded land title records (or judicial records where appropriate ²) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Date of search: March 9, 2023
Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Date of search: March 9, 2023
Do you have any specialized knowledge or experience related to the property or nearby properties?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lease
Are you aware of any commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

2. In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than land title records. In such cases, judicial records must be searched for environmental liens and AULs.

QUESTIONS	YES	NO	COMMENTS
Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?	✓	<input type="checkbox"/>	

4.1 Reason for Performing Phase I ESA

The reason for performing this Phase I ESA is to satisfy CERCLA requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser LLPs.

5.0 Historical Review

5.1 Historical Sources Reviewed

ECT reviewed the following reasonably ascertainable standard historical sources, as described in ASTM E2247-16, to determine the previous uses and occupancies of the Subject Property, adjoining properties, and surrounding area.

Aerial photographs were obtained from EnviroSite Corporation (EnviroSite), which were sourced from the USGS, National Historical Aerial Program (NHAP), National Aerial Photography Program (NAPP), National Agriculture Imagery Program (NAIP), and/or Digital Orthophoto Quadrangle (DOQ). Additionally, ECT reviewed available aerial photographs on Google Earth™.

ECT reviewed topographic maps of the Subject Property and surrounding area. The current USGS 7.5-minute topographic map quadrant is *Robards, Kentucky*, which is dated 2022. Aerial photographs and topographic maps were reviewed on February 27, 2023.

Although three residential dwellings are situated on-site, it is the opinion of the EP that a search of historical city directories and/or fire insurance maps is not warranted as it would not likely lead to the identification of RECs.

The table below summarizes available historical source coverage for the Subject Property. Copies of the available aerial photographs and topographic maps are provided in the appendices ([Historical Sources](#)).

Dates	Aerial Photographs	Topographic Maps	Other Sources
No Coverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prior to 1940	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1940 - 1945	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1946 - 1950	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1951 - 1955	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1956 - 1960	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1961 - 1965	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1966 - 1970	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1971 - 1975	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1976 - 1980	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1981 - 1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1986 - 1990	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1991 - 1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1996 - 2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2001 - 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Dates	Aerial Photographs	Topographic Maps	Other Sources
2006 - 2010	✓	✓	✓
2011 - 2015	✓	✓	✓
2016 - 2020	✓	✓	✓
Current	☐	✓	✓

5.2 Subject Property Historical Summary

Historical aerials indicated the Subject Property has primarily consisted of agricultural land with several residential structures and/or outbuildings since at least 1956 to present day. Information obtained from KGS indicated oil and gas production has been present throughout the Subject Property since the mid 1940s. Topographic maps from 1949 to 1969, depicts oil fields and wells in the northwestern and southeastern portions of the Subject Boundary. By 1949, an underground gas pipeline is depicted traversing the northern portion of the Subject Property in an east-west orientation. An overhead electric transmission line is depicted traversing the Subject Property southern portion since 1968.

During the site reconnaissance, three wells were observed in the Subject Property's southwestern portion (Parcel 61-21). One of these wells was active while the others were inactive. A review of aerial photographs (i.e., 1968, 1983) revealed eight suspect disposal pits associated with oil/gas wells in the northwestern and southern portions (Parcels 61-8, 61-8.1, and 61.21). Evidence of oil/gas activities were also apparent in the 1968 aerial in a different section of Parcel 61-8 which was not mapped by KGS. Refer to [Section 7.2](#) for additional information regarding oil and gas wells.

5.3 Surrounding Area Historical Summary

Historical sources indicated that the surrounding area primarily consisted of agricultural land and sparse residential development for all years reviewed. According to the KGS, oil and gas exploration has been conducted in the surrounding area since at least the 1940s.

5.4 Prior Environmental Reports

ECT did not receive and did not encounter any prior environmental reports completed for the Subject Property. However, prior assessments were completed for adjacent and/or nearby parcels also associated with the Sebree II Solar Project, but were not subject of this assessment.

As part of a Phase I ESA conducted in 2022 for other parcels associated with the Sebree II Solar Project but not subject of this assessment, ECT interviewed Mr. Dennis Hatfield, Director of the Oil/Gas Division of the Kentucky Energy and Environment Cabinet (KEEC). Mr. Hatfield indicated that records of oil and gas development projects do not include information related to potential drill cutting reserve pits [i.e., disposal pits].

6.0 Regulatory Database Review

6.1 Database Finding Summary

ECT contracted Envirosite Corporation (Envirosite) to conduct a search of publicly available information from federal, state, tribal, and local environmental record sources in accordance with ASTM E2247-16. Data gathered during the regulatory database search is compiled by Envirosite into a government records report (i.e., database report). This government records report, dated February 21, 2023, was reviewed by ECT on February 27, 2023.

The standard databases researched in accordance with ASTM E2247-16 requirements are listed below.

Standard Environmental Record Sources (where available)	Approximate Minimum Search Distance (miles)
Federal Sources	
NPL list	1.0
Delisted NPL list	0.50
CERCLIS list	0.50
CERCLIS-No Further Remedial Action Planned (NFRAP) list	0.50
RCRA Corrective Action (CORRACTS) facilities list	1.0
RCRA non-CORRACTS TSD facilities list	0.50
RCRA generators list	SP and Adjoining
Federal institutional control/engineering control registries	SP
Federal Emergency Response Notification System (ERNS) list	SP
State Sources	
<i>State- and tribal-equivalent NPL</i>	1.0
<i>State- and tribal-equivalent CERCLIS</i>	0.50
State and tribal landfill and/or solid waste disposal site lists	0.50
State and tribal leaking storage tank lists	0.50
State and tribal registered storage tank lists	SP and Adjoining
State and tribal institutional control/engineering control registries	SP
State and tribal voluntary cleanup sites	0.5
State and tribal Brownfield sites	0.50
SP = Subject Property	
<i>Italicized = State and tribal lists of hazardous waste sites identified for investigation or remediation</i>	

The database report, which includes a search of standard and additional record sources, identified the following hits for the Subject Property and/or surrounding area.

For full details pertaining to the databases searched, refer to the database report included in the appendices ([Regulatory Database Report](#)).

Regulatory Report Summary

Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
UIC - KY	0	1	1	0	0	0	2

6.2 Subject Property Listings

The Subject Property was listed on the following regulatory databases researched by EnviroSite.

Subject Property Summary

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
UIC - KY	COUNTRYMARK ENERGY RESOURCES, LLC	37.665796, -87.598897, KY	0.00/-	0.0	See below.

Countrymark Energy Resources, LLC: The Underground Injection Control (UIC) Listing database maintained by the KGS lists one active enhanced recovery injection well on-site. Additional documentation pertaining to this well was not available. Refer to [Section 7.1](#) for information regarding the open records request to the State of Kentucky and [Section 7.2](#) for additional information regarding oil and gas exploration.

6.3 Surrounding Properties

Each surrounding property listing identified within the searched radius of the Subject Property was evaluated using the EP's judgement to determine its potential impact to the Subject Property. The distance of the listing from the Subject Property was included in ECT's evaluation, as well as the listing details, the regional topography, and the estimated groundwater flow. Based on ECT's evaluation, surrounding properties of potential environmental significance in relation to the Subject Property have been identified in the table below.

Surrounding Properties Summary

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
UIC - KY	HYDROCARBON INVESTMENTS, INC.	37.671205, -87.600264, KY	0.02/NW	19.2	See below.

Hydrocarbon Investments, Inc.: The UIC Listing database identified an inactive enhanced recovery injection well in the north adjoining property. The well is reported in shut-in status. The operator is listed as Carter Oil Co. KGS reports the well was completed on 02/10/1943 under Permit # N1241 (API # 16101003870000).

Given the inactive status of this well, the site is not a REC.

6.4 Unmappable Properties

Envirosite also provides an unmappable (or “orphan”) summary list which identifies properties that cannot be mapped due to poor or inadequate address information. None of the orphan sites identified by EnviroSite were determined to pose an environmental concern to the Subject Property.

7.0 Regulatory Agency Records Review

7.1 State Environmental Agency

ECT requested pertinent regulatory files associated with the standard database listings for the Subject Property and/or adjoining properties. Specifically, records pertaining to the enhanced injection wells reported by Envirosearch were requested from the Kentucky Energy and Environment Cabinet (KEEC) via e-mail on March 8, 2023. A request for clarifying information was received from the KEEC via e-mail on March 13, 2023. A final response from KEEC was received on March 21, 2023.

KEEC did not locate records pertaining to the on-site enhanced recovery injection well. KEEC provided records for the inactive injection well located on the north adjoining property (Permit N1241, API 16101003870000, KGS Record #25637); these documents included temporary abandonment permits and correspondence, production records, inspection reports, and transfer documents. According to the last inspection, which was completed on January 21, 2022, the status of this well is improperly abandoned, not producing or plugged.

Copies of state government correspondence and provided documents are included in the appendices ([State/Local Interview Documentation](#)).

7.2 Oil and Gas Pipelines/Wells

ECT reviewed the National Pipeline Mapping System (NPMS) to evaluate if pipelines are located at the Subject Property. One active natural gas transmission pipeline operated by the Texas Gas Transmission, LLC traverses the northwestern portion in an east-west direction. No accidents or incidents were reported on-site or within close proximity to the Subject Property. No environmental concerns were identified in association with the natural gas pipeline.

In addition, ECT reviewed oil and gas geospatial data from the KGS on February 27, 2023. Along with these data, historical sources indicate that oil/gas exploration has been conducted on the Subject Property since the mid 1940s. A total of 15 wells were identified on the Subject Property, including two dry and abandoned wells, six location wells, six oil wells, and one terminated permit. These categories are defined below:

- *Dry & abandoned* (D&A) refers to wells which are not a productive well or service well. The U.S. EPA defines a *dry hole* as "Any well that does not produce oil or gas in commercial quantities. A dry hole may flow water, gas, or even oil, but not enough to justify production."

- *Location wells* refers to oil and/or gas wells with incomplete records which includes newly KGS-permitted locations, historic wells, active wells.
- *Oil wells* refers to wells completed as oil (including abandoned producers).
- *Terminated permits* refer to locations for which a permit was issued but was cancelled by the operator or allowed to expire. Based on the expired and/or cancelled nature of the permits, this finding does not pose an environmental concern to the Subject Property.

Records obtained from the KGS indicate the two D&A wells were completed and plugged within 30 days of completion. Therefore, these wells do not pose an environmental concern to the Subject Property. Of the six location wells, one was permitted in 1984 but no completion date is reported. A second location well was plugged in 1973. No completion or plugging dates were reported for the remaining location wells. Lastly, the six oil wells were completed between 1945 and 1946; however, no plugging dates are reported. Additionally, KGS records depict oil flow and gathering lines on the Subject Property connecting the oil/gas wells. **Refer to the [Oil/Gas Wells of Interest table](#) provided below for additional details on these wells.**

During the site reconnaissance, three wells were observed in the southwestern portion of the Subject Property (Parcel 61-21), including: two active gas wells (KGS Record # 20006 and # 106487) and one active oil well (API 16101076890000; KGS Permit N22576) that exhibited oil staining. The observed wells are discussed in [Section 9.7](#) and the staining is discussed in [Section 9.4](#).

Oil and gas exploration and production activities typically involve multiple centralized pits which receive produced fluids (i.e., brine), and/or drilling muds (i.e., "mud") from wells, leases, or fields. According to the U.S. EPA, these pits are known as brine disposal pits, mud disposal pits, or combined mud/brine disposal pits, and are defined as excavated or above-grade earthen impoundments located away from oil/gas operations from which they receive brine and/or mud. These impoundments may be lined or unlined. Brine generally consists of injection water, oil, and salts. Drilling mud generally consists of a water or oil base mixed with soil cuttings. Both byproducts often contain elevated concentrations of crude oil, petroleum hydrocarbons, metals, and/or chloride. For the sake of brevity, these pits are collectively referred to as "disposal pits." Historical sources, specifically aerials dated 1968 and/or 1983, revealed several suspect disposal pits in the vicinity of three location wells and four oil wells. Historical topographic maps also depict oil fields in portions of the Subject Property.

Copies of the oil and gas records obtained from KGS are included in the appendices ([Regulatory Agency Documentation](#)).

As described in [Section 6.0](#), EnviroSite identified one active enhanced recovery injection well on the Subject Property (Parcel 61-23) and one inactive enhanced recovery injection well on the north adjoining property. ECT was not able to access documentation pertaining to the on-site enhanced recovery injection from KGS because no permit number, API number, or KGS record number was reported by EnviroSite (refer to [Section 7.1](#)).

Based on the likely presence of hazardous substances and/or petroleum products in connection with a release to the environment associated with the long-term use of the Subject Property for oil/gas well exploration and production, the presence of suspect disposal pits on-site, and the presence of an active enhanced injection well, it is the opinion of the EP that these findings constitute a REC.

Oil/Gas Wells of Interest

API #	LOCATION	TYPE	COMMENTS
Parcel 61-24.2			
16101023770000	37.672065, -87.596832	Oil	Completed 12/06/1956; no plugging date reported. Two suspect disposal pits in the vicinity of this well are evident in the 1968 aerial. KGS Record # 108161. Mapped on Parcel 61-24.2.
N/A	37.671571, -87.596901	Oil	Completed 11/27/1945; no plugging date reported. Two suspect disposal pits in the vicinity of this well are evident in the 1968 aerial. KGS Record # 108162. Mapped on Parcel 61-24.2.
16101013510000	37.671705, -87.597854	Location	Completion date or plugging date not reported. No documents available for review. Two suspect disposal pits in the vicinity of this well are evident in the 1968 aerial. KGS Record # 156253. Mapped on Parcel 61-24.2.
16101007380000	37.670418, -87.59545	Location	Permit date 11/13/1984; no completion date reported. KGS Record # 47329. Mapped on Parcel 61-24.2.
Parcel 61-8			

API #	LOCATION	TYPE	COMMENTS
16101003800000	37.669182, -87.603984	Location	Completion date or plugging date not reported. Available oil production records indicate the well was producing from 1994 to 1999 and from 2005 to 2006; and in shut-in status from 2000 to 2004 and from 2007 to 2021. Two suspect disposal pits in the vicinity of this well are evident in the 1968 aerial. Additional potential oil/gas exploration activities are apparent near the well in the 1968 aerial, but that location is not mapped by KGS. KGS Record # 147617. Mapped on Parcel 61-8.
N/A	37.668303, -87.603984	Oil	Completed 08/02/1946; no plugging date reported. KGS Record # 107669. Mapped on Parcel 61-8.
Parcel 61-23			
N/A	37.662426, -87.595364	D&A	Completion date 04/27/1946; documents suggest a possible plugging date of 5/8/1946. KGS Record # 106486. Mapped on Parcel 61-23.
Parcel 61-21			
N/A	37.656223, -87.597937	Oil	Completed 01/25/1945; no plugging date reported. A suspect disposal pit in the vicinity of this well is evident in the 1968 aerial. KGS Record # 20006. Mapped on Parcel 61-21. During the site reconnaissance, an active gas well head was observed at this location.
N/A	37.657733, -87.598283	Oil	Completed 03/28/1946; no plugging date reported. A suspect disposal pit in the vicinity of this well is evident in the 1968 aerial. KGS Record # 106487. Mapped on Parcel 61-21. During the site reconnaissance, an active gas well head was observed at this location.
16101008360000	37.660806, -87.595865	Location	Completion date or plugging date not reported. Available oil production records indicate the well was producing from 1994 to 2020 and in shut-in status in 2021 (last year listed). KGS Record # 147670. Mapped on Parcel 61-21.
16101076890000	37.657392, -87.597844	Location	Completion date or plugging date not reported. No documents available for review. A suspect disposal pit in the vicinity of this well is evident in the 1968 aerial. KGS Record # 151612. Mapped on Parcel 61-21. During the site reconnaissance, this well was observed to be active and exhibited <i>de minimis</i> oil staining. The permit associated with this well is N22576.

API #	LOCATION	TYPE	COMMENTS
N/A	37.660723, -87.595813	Oil	Completion date or plugging date not reported. However, documents suggest the well was likely drilled around 4/3/1946. KGS Record # 2018724. Mapped on Parcel 61-21.
16101072830000	37.658746, -87.598801	Location	Completion date not reported; documents suggest the well was plugged on 07/14/1953. Suspect disposal pits in the general vicinity to this well appear to be associated with other well locations. KGS Record # 2018727. Mapped on Parcel 61-21.
Parcel 61-53			
16101062450000	37.661218, -87.576918	Terminated	Permit # 10096 dated 07/21/1980; in terminated status. No documents available for review.
16101065210000	37.660943, -87.577574	D&A	Completed and plugged on 09/23/1955. KGS Record # 38868. Mapped on Parcel 61-53.

7.3 Mining and Mineral Exploration

ECT reviewed the KGS's Mine Mapping Information System (MMIS) to evaluate if mines are located at the Subject Property. No mines are located on or within close proximity to the Subject Property. In addition, no evidence of mining activities were observed during a review of historical sources.

8.0 Interviews

8.1 Past and Present Owners

According to Henderson County Property Valuation Administrator and information provided by the User, parcels comprising the Subject Property are owned by David William Denton (Parcel 61-8, Parcel 61-23); Laura A & Derek H Logsdon (Parcel 61-8.1, 61-23); Wade Denton (Parcel 61-24.2); and Brenda F & William R JR Canton (Parcel 61-53). ECT made reasonable attempts to interview each landowner via telephone between March 1, 2023 and March 3, 2023. The responses generally indicated the Subject Property has been used primarily for agricultural purposes dating back to at least 1966; historic oil/gas activities were also reported. The landowner responses have been summarized in the table below.

QUESTIONS	RESPONSE SUMMARY
How long have you owned and/or been affiliated with the property?	From 1966 to 2022
What are the current uses of the property?	Agricultural
What are the past uses of the property?	Agricultural
What is the approximate age (or construction date) and size / square footage of current structure(s)?	Mr. William Canton stated that there is a residence, trailer home, and old barn with cars on the property. Mr. David Denton stated that there is a residence with three barns, farm shop, equipment shed, and animal outbuildings. Ms. Logsdon stated there is one residence and three garages on Parcel 61-8.1.
If vacant or undeveloped, do you know of any prior improvements?	No
Are you aware of any current or previous well(s) and/or septic system(s)?	Mr. Canton stated that there is a closed water well near the barn and the house is on a private septic tank that is serviced as needed. Mr. David Denton stated that there is a private septic leachfield situated west of the residence. Ms. Logsdon stated there is a private septic tank near the residence.

QUESTIONS	RESPONSE SUMMARY
Do any utilities currently service the property?	Mr. Canton stated the residence is serviced by county water and Kent Energy. Mr. David Denton stated that the residence is on Kentucky utilities, Atmos gas, and county water. Ms. Logsdon stated that there is county water and electric is serviced by Kentucky utilities.
Are you aware of any area of storage, used, generation or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides or related regulated chemicals?	No
Are you aware of any underground or aboveground storage tanks for any chemicals or petroleum products currently or historically located on the property?	Mr. David Denton stated that there is a 300-gallon diesel AST with minor staining near the fill port.
Has the property been used as a waste landfill, dump, or disposal site?	Mr. David Denton reported that his grandfather dumped general household refuse into the ditch towards the southern portion of the property.
Are you aware of any fill material that has been placed on the property?	None
Are you aware of any current or former oil or gas wells, or associated tanks / pipelines on the property?	Mr. David Denton stated that there is one oil well on the 61-8 parcel that is not functioning with no staining reported; Ms. Logsdon stated that there is one oil well on the 61-21 property with two other oil wells that she was unsure of the exact use. These wells were near the floodplain on the southern portion of the property.
Are you aware of any current or former (i.e., filled) pits, ponds, or lagoons located on the property?	Mr. David Denton reported several ponds on the property.
Are you aware of any past cattle dipping vats on the property?	No
Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the property's soil, groundwater, or surface waters?	No
Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability, or potential environmental concerns in connection with the property?	No
Are you aware of any past environmental assessment report(s) prepared for the property?	No

Additional landowner interview notes and completed questionnaires are included in the appendices ([Owner Interview Documentation](#)).

8.2 State and/or Local Government Officials

The following state and/or local government officials were interviewed as part of this assessment:

Agency:	Green River District Health Department
Contact Name:	Mr. Clayton Horton
Title:	Public Health Director
Method:	Email enquire on February 23, 2023
Comments:	Ms. Whitney Smith provided information via email on February 27 and 28 indicating that a septic system was installed and inspected on Parcel 61-8.1 (8619 Thomason Road) in 1996. No other records were identified.

Agency:	Robards Community Fire Department
Contact Name:	William David Denton
Title:	Fire Chief
Method:	Email enquire on February 23, 2023
Comments:	Responded via email on February 25 indicating that, other than medical runs, only one fire was reported in the last ten years, which consisted of a tractor fire that occurred on Parcel 61-8 in December 2020.

Copies of state and/or local government correspondence and any provided documents are included in the appendices ([State/Local Interview Documentation](#)).

9.0 Site Reconnaissance

RECONNAISSANCE OVERVIEW	
Site Reconnaissance Date:	February 17, 2023
ECT Assessor(s) Name & Title:	Mr. Tyler Martin, Associated Scientist I
Escort & Relationship to Property:	None
Methodology:	Automobile reconnaissance via public roadways and available access roads with closer walkovers of identified areas of environmental interest unless otherwise disclosed as a limiting condition (see below; refer to Section 2.5).
Access Limitations:	Residences were not included in the reconnaissance
SUBJECT PROPERTY CONDITIONS	
Weather:	62°F, sunny
General Topography:	Flat with rolling hills.
Current Use:	Primarily agricultural with several residences and outbuildings (e.g., barn) and oil/gas production.
Areas of Environmental Interest:	Oil/gas wells including one active oil well with staining, gas pipeline & meter, refuse piles, non-PCB transformer.
Roads and Corridors:	Thomason Road bisects the western portion of the Subject Property in a north-south orientation; W N Roystern Road borders the eastern portion.
Other Transportation Corridors:	Easements for overhead electrical transmission lines traverse the central, eastern, and southern portions; an easement for one underground hazardous liquid pipelines transects the northwestern portion of the Subject Property.

In accordance with ASTM E2247-16, the EP conducted a review of aerial photographs, regulatory records, and information obtained from interviews prior to the completion of the reconnaissance. Based on the EP's review of these data sources, areas of environmental interest (if any) were identified and discussed with field personnel prior to the reconnaissance. The EP was in contact with field personnel, who transmitted photographs, video recordings, and/or live video feed, during the reconnaissance, and provided further guidance as necessary.

9.1 Subject Property Reconnaissance Summary

Field observations, as noted in the table below, are included on [Figure 2](#). Photographs taken during the reconnaissance are provided in the appendices ([Photographic Documentation](#)).

OBSERVATION	YES	NO
Hazardous Substances and/or Petroleum Products in Connection with Property Use	✓	<input type="checkbox"/>
Hazardous Substances and/or Petroleum Products not in Connection with Property Use	<input type="checkbox"/>	✓
Aboveground Storage Tanks (ASTs)	<input type="checkbox"/>	✓
Underground Storage Tanks (USTs), vent pipes, fill pipes, or access ways indicating USTs may be present	<input type="checkbox"/>	✓
Unidentified Substance Containers	<input type="checkbox"/>	✓
Strong, Pungent, or Noxious Odors	<input type="checkbox"/>	✓
Drains, Sumps, Clarifiers, or Pools of Liquid	<input type="checkbox"/>	✓
Electrical or Hydraulic Equipment Likely to Contain Fluids	✓	<input type="checkbox"/>
Stained Soil or Pavement	✓	<input type="checkbox"/>
Pits, Ponds, Ditches, Streams, or Lagoons	✓	<input type="checkbox"/>
Stained or Stressed Vegetation	<input type="checkbox"/>	✓
Solid Waste Disposal	<input type="checkbox"/>	✓
Evidence of Fill Materials or Dumping of Debris	✓	<input type="checkbox"/>
Wastewater or Storm Water Discharges	<input type="checkbox"/>	✓
Wells	✓	<input type="checkbox"/>
Septic Systems	✓	<input type="checkbox"/>
Other	<input type="checkbox"/>	✓

9.2 Observed Hazardous Substances and/or Petroleum Products

9.2.1 In Connection with Property Use

As previously discussed in Section 7.2, oil/gas wells, enhanced injection well, and buried pipelines exist within the limits of the Subject Property and adjoining properties. Any staining and/or stressed vegetation observed on-site is described in [Section 9.7](#).

9.3 Aboveground Storage Tanks

During the interview with Mr. David Denton, it was noted a 300-gallon diesel AST in on Mr. Denton's property. He also stated there is minor staining near the fill port of the AST. Based on the description and volume, the presence of the AST does not represent a significant environmental concern.

9.4 Electrical or Hydraulic Equipment Likely to Contain Fluids

In the United States, PCBs were commercially manufactured from 1929 until production was banned in 1979 by the Toxic Substances Control Act (TSCA). Due to their non-flammability, chemical stability, high boiling point and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications, such as electrical, heat transfer, and hydraulic equipment, such as transformers, elevators, and hydraulic lifts.

At the time of the reconnaissance, several pole-mounted transformers were observed, including one along Thomason Road right-of-way in the central portion of the Subject Property. No labels were visible on the transformers to indicate their PCB status; however, they appeared to be in good condition with no evidence of leaks.

9.5 Stained Soil or Pavement

As previously noted, staining was observed on the active oil well on the southern portion of the Subject Property (Parcel 61-21). Refer to [Section 7.2](#) for additional information.

Minor staining around a 300-gallon AST was reported by Mr. Denton in [Section 8.1](#) and discussed in [Section 9.3](#).

9.6 Pits, Ponds, Ditches, Streams, or Lagoons

As previously noted, historical sources reveal suspect disposal pits associated with oil/gas wells identified within the Subject Property. Refer to [Section 7.2](#) for additional information.

At the time of the site reconnaissance, a drainage ditch was observed in the northwest portion of the Subject Property. No evidence of staining or stressed vegetation was observed in the vicinity of this surface water feature. Additionally, information provided by the landowners report the presence of several ponds; however, none were documented during the site reconnaissance.

9.7 Solid Waste Disposal, Fill Materials, or Debris

Several piles of discarded materials were encountered during the site reconnaissance in two wooded areas in the northern (Parcel 61-24.2) and western (Parcel 61-53) portions. Materials observed in these refuse piles consisted of one or more of the following: scrap metal, metal containers, burn drums, tires, household refuse (e.g., washing machine, grill, bathroom sink, carpeting), general refuse/trash (e.g., plastic bottles, retail-size containers of maintenance fluids).

Given the small size and type of materials observed on these refuse piles, lack of staining/stressed vegetation, and absence of evidence of significant release in these areas, these discarded material piles represent a BER.

9.8 Wells

Based on information provided by the landowners, potable water is supplied by Henderson County. However, information received from Mr. Canton indicates that a closed water well is present near the barn located on Parcel 61-53; this water well was not observed during the site reconnaissance. Geospatial data from the KGS pertaining water supply wells did not identify water wells within the Subject Property.

As previously discussed, several wells associated with oil/gas exploration or production were identified on the Subject Property. During the site reconnaissance, three active wells were observed on Parcel 61-21. Refer to Section 7.2 for additional information.

9.9 Septic Systems

Based on information provided by the landowners, ECT is aware that sewage disposal is supported by private septic systems; these systems were reported to exist near residences in Parcels 61-53, 61-23, and/or 61-8.1. Although septic systems can be recipient to a variety of materials depending on their use, the residential use of a septic system is not considered an environmental concern.

9.10 Other Field Observations

A gas meter marker along the natural gas pipeline was observed along the east side of Thomason Road right-of-way in the central portion of the Subject Property (Parcel 61-24.2). The natural gas pipeline is discussed in [Section 7.2](#).

10.0 Non-Scope Considerations

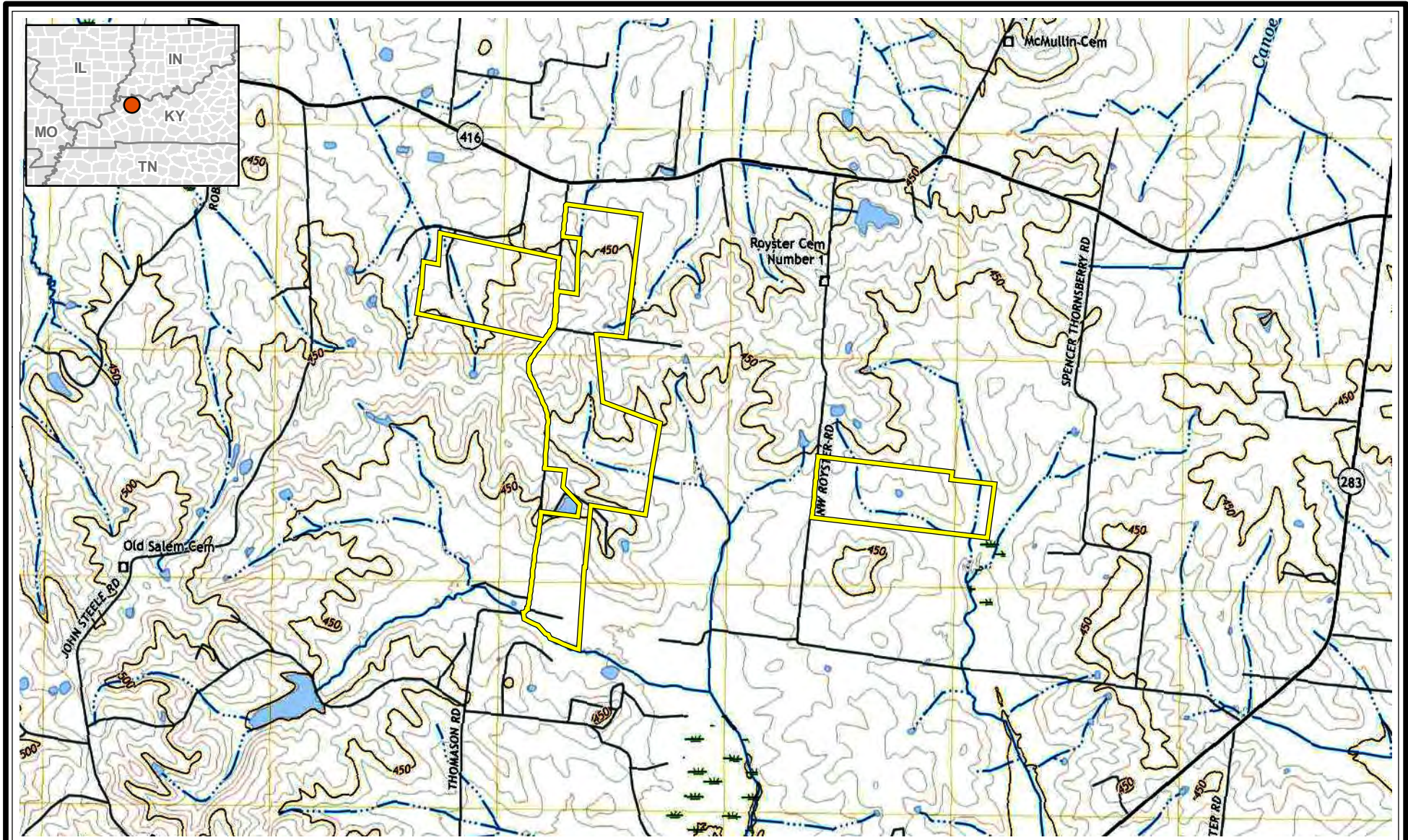
No non-scope considerations as defined in Appendix X5 of ASTM E2247-16 were included as part of this assessment.


11.0 References

REFERENCED ITEM OR AGENCY	PUBLICATION OR INQUIRY DATE(S)	SOURCE
Aerial Photographs	February 22, 2023	Envirosite
	May 11, 2022	Google Earth™
Assessor Information	February 23, 2023	Henderson County Property Valuation Administrator's Office
Depth to Groundwater Information	February 27, 2023	U.S. Department of Agriculture Natural Resources Conservation Service (USDA-NRCS) Web Soil Survey
Environmental Lien/AUL Search	March 9, 2023	AFX Research, LLC
Fire Department(s)	February 23, 2023	Robards Community Fire Department
Geology Information	February 27, 2023	Kentucky Geological Survey (KGS) and U.S. Geological Survey (Noger MC 1988)
Health Department(s)	February 23, 2023	Green River District Health Department
Mining Information	February 27, 2023	Kentucky Mine Mapping Information System
Oil and Gas Authority	February 27, 2023	Kentucky Energy and Environment Cabinet (KEEC)
Owner(s), Key Site Manager(s), and/or Occupant Interviews	March 1, 2023	Various landowners; refer to Section 8.1
Physiographic Information	February 27, 2023	Kentucky Geological Survey (KGS)
Pipeline Information	February 27, 2023	National Pipeline Mapping System (NPMS)
Regulatory Database Report	February 21, 2023	Envirosite
Soils Information	February 27, 2023	USDA-NRCS Web Soil Survey
Standard Practice	2016	ASTM Standard E2247-16, <i>Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property</i>
State Environmental Agency	March 8, 2023	Kentucky Energy and Environment Cabinet
Topographic Maps	February 21, 2023	Envirosite
Topographic Map (current)	2019	USGS (<i>Robards, Kentucky</i>)

Appendix A

Figures



 Project Boundary (± 242.33 Ac.)

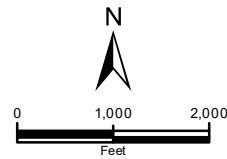


Figure 1
USGS Topographic Map

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023



Base Layer: USGS Topographic Quad Robards 2022



- | | | | |
|----------------------------------|--|-------------------------------|--------------------------|
| Project Boundary (± 242.33 Ac.) | Oil/Gas Well (KGS) | Oil Flow | Barn |
| Parcel | Active Oil/Gas Well (KGS) | Oil Gathering | Delapidated Vehicles |
| Natural Gas Pipeline (NPMS) | Staining | Water Injection | Gas Meter |
| Transmission Line (HIFLD) | Enhanced Recovery Injection Well - Active (Envirosite) | Former Structure | Pole Mounted Transformer |
| 100-161kV | Enhanced Recovery Injection Well - Inactive (Envirosite) | Potential Oil/Gas Activity | Refuse Pile |
| Under 100 kV | EPA Facility | Suspect Disposal Pit | |
| | | Historical Observation | |

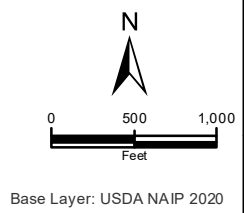


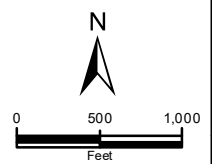
Figure 2
Subject Property Overview

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





- Project Boundary (± 242.33 Ac.)
- ◆ Active Oil/Gas Well (KGS)
- ◆ Historical Oil/Gas Well (KGS)
- ◆ Enhanced Recovery Injection Well - Active (Envirosite)
- ◆ Enhanced Recovery Injection Well - Inactive (Envirosite)
- ◆ Oil & Gas Gathering Lines (KGS)
- Oil Flow
- Oil Gathering
- ★ Staining
- Potential Oil/Gas Activity
- Suspect Disposal Pit



Base Layer: USDA NAIP 2020

Figure 3
REC Location Map

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023



Appendix B

Property Records

qPublic.net™ Henderson County, KY PVA

Summary

Parcel Number 61-8
 Account Number 4735
 Location Address THOMASON RD 8653
 Description FARM - 25.8138 ACRES
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 00 County
 2021 Rate Per Hundred 1.1080

[View Map](#)



Owner

Primary Owner
[DENTON WILLIAM DAVID](#)
 8653 THOMASON RD
 ROBARDS, KY 42452-0000

Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page	7/238	Drainage	
Subdivision		Flood Hazard	
Lot	2	Zoning	
Block		Electric	Yes
Acres	25.81	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape	Irregular	Information Source	Plat

[User Privacy Policy](#)
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qPublic.net™ Henderson County, KY PVA

Summary

Parcel Number 61-8.1
Account Number 11133
Location Address THOMASON RD 8619
Description FARM - 25.81 ACRES
 (Note: Not to be used on legal documents)
Class Farm
Tax District 00 County
2021 Rate Per Hundred 1.1080

[View Map](#)



Owner

Primary Owner
 LOGSDON DEREK H & LAURA A
 8619 THOMASON RD
 ROBARDS, KY 42452-0000

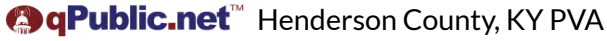
Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page	7/238	Drainage	
Subdivision	WILLIAM DENTON	Flood Hazard	
Lot	1	Zoning	
Block		Electric	Yes
Acres	25.81	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape	Irregular	Information Source	Plat

[User Privacy Policy](#)
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[Last Data Upload: 3/7/2023, 6:39:22 PM](#)





Summary

Parcel Number 61-21
 Account Number 43940
 Location Address THOMASON RD 8926
 Description FARM - 43.37 ACRES
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 00 County
 2021 Rate Per Hundred 1.1080

[View Map](#)

Owner

Primary Owner
 LOGSDON LAURA ANNE
 8619 THOMASON RD
 ROBARDS, KY 42452

Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page	010-0268	Drainage	
Subdivision	LOGSDON & DENTON CONS	Flood Hazard	
Lot	TRACT 2	Zoning	
Block		Electric	Yes
Acres	43.37	Water	No
Front	1499.79	Gas	No
Depth	0	Sewer	No
Lot Size	1499.79x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	None
Shape	Irregular	Information Source	Plat

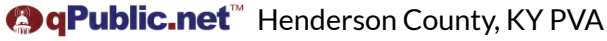
No data available for the following modules: Photos, Sketches.

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Summary

Parcel Number 61-23
 Account Number 4735
 Location Address THOMASON RD 8660
 Description FARM - 54.14 ACRES
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 00 County
 2021 Rate Per Hundred 1.1080

[View Map](#)

Owner

Primary Owner
[DENTON WILLIAM DAVID](#)
 8653 THOMASON RD
 ROBARDS, KY 42452-0000

Land Characteristics

Condition	Average	Topography	Level
Plat Book/Page	010-0268	Drainage	
Subdivision	LOGSDON & DENTON CONS	Flood Hazard	
Lot	TRACT 1	Zoning	
Block		Electric	Yes
Acres	54.14	Water	Yes
Front	2058.53	Gas	No
Depth	0	Sewer	No
Lot Size	2058.53x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	None
Shape	Irregular	Information Source	Plat

No data available for the following modules: Photos, Sketches.

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Summary

Parcel Number 61-24.2
 Account Number 51569
 Location Address THOMASON RD (ADJ TO 8620)
 Description FARM - 39.76 AC
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 00 County
 2021 Rate Per Hundred 1.1080

[View Map](#)

Owner

Primary Owner
 DENTON WADE D & MADISON N
 1169 VINE ST
 ROBARDS, KY 42452

Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page	011-0199	Drainage	
Subdivision	PARRISH SUB	Flood Hazard	
Lot	REMAINDER	Zoning	
Block		Electric	No
Acres	39.76	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape	Irregular	Information Source	Plat

No data available for the following modules: Taxes, Photos, Sketches.

The Henderson County Property Valuation Administrator's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll.

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Version 2.3.254

Developed by


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Summary

Parcel Number 61-53
Account Number 51308
Location Address W N ROYSTER RD 8508
Description FARM - 49 AC
 (Note: Not to be used on legal documents)
Class Farm
Tax District 00 County
2021 Rate Per Hundred 1.1080

[View Map](#)



Owner

Primary Owner
 CATON WILLIAM R JR & BRENDA F
 5888 J ROYSTER RD
 CORYDON, KY 424069567

Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	
Lot		Zoning	
Block		Electric	Yes
Acres	49.00	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape	Irregular	Information Source	

[User Privacy Policy](#)
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Last Data Upload: 3/7/2023, 6:39:22 PM



Appendix C

User Provided Information



USER QUESTIONNAIRE

To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information (if available) to the environmental professional. **Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.**

Project Name: _____

County(ies) & State: _____

1. ENVIRONMENTAL LIENS

Did a search of recorded land title records (or judicial records where appropriate¹) identify any environmental liens filed or recorded against the property under federal, tribal, state, or local law?

NO **YES** **Date of Search:** _____

2. ACTIVITY AND USE LIMITATIONS (AULs)

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or local law?

NO **YES** **Date of Search:** _____

3. SPECIALIZED KNOWLEDGE OR EXPERIENCE

Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO **YES** **If yes, explain.** _____

¹ In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.



> ectinc.com

4. PURCHASE PRICE & FAIR MARKET VALUE

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

NO **YES** **If no, explain.** _____

LEASE?

5. COMMONLY KNOWN INFORMATION

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? *For example, do you know the past uses of the property? Do you know if specific chemicals that are present or once were present at the property? Do you know of spills or other chemical releases that have taken place at the property? Do you know of any environmental cleanups that have taken place at the property?*

NO **YES** **If yes, explain.** _____

6. DEGREE OF OBVIOUSNESS

Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

NO **YES** **If yes, explain.** _____

Completed By: _____ **Title:** _____

Signature: _____ **USER ENTITY:** _____

Date: _____ **Reason for Phase I:** _____

Other Reliance Entities: _____

Appendix D

Environmental Lien/AUL Reports

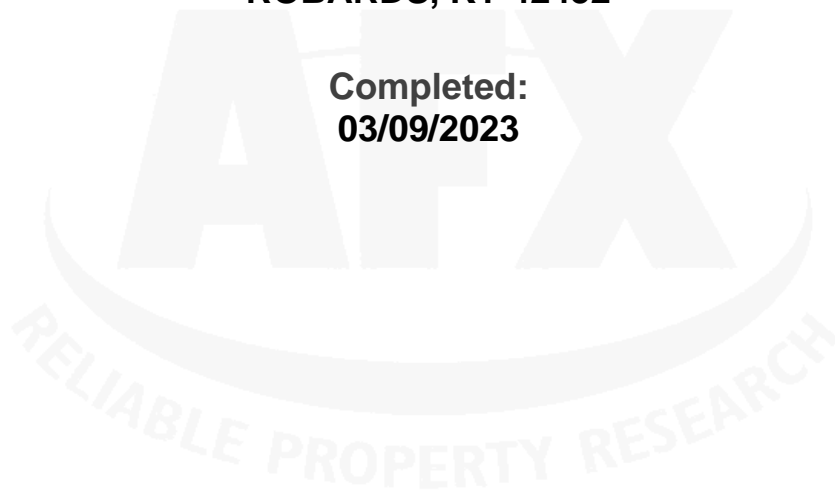


ENVIRONMENTAL LIEN AND AUL REPORT

Order Number:
79-293721-47

Subject Property:
**8508 WN ROYSTER RD
ROBARDS, KY 42452**

Completed:
03/09/2023



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(877) 848-5337 / www.afxllc.com

ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 2 of 4)

Order #: 79-293721-47 | Completed: 03/09/2023

SOURCES SEARCHED

Source 1: HENDERSON COUNTY RECORDER'S OFFICE

Source 2: KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Examiner Notes: **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s): OMA EVADEAN MAYS

Street Address: 8508 WN ROYSTER RD

City, State Zip Code: ROBARDS, KY 42452

APN/Parcel/PIN: 61-53
11737

County: HENDERSON

Legal Description: SINGLE FAMILY - 49 AC

PROPERTY OWNERSHIP

Instrument: **DEED**

Date Recorded: 03/10/1999

Book/Page: 484/83

Dated: 03/10/1999

Grantor(s): WILLIAM R. CATON, JR. AND HIS WIFE, BRENDA F. CATON

Grantee(s): OMA EVADEAN MAYS

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

LEASES

NO LEASES FOUND.



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Ph: (877) 848-5337 Fax: (800) 201-0620
<https://www.afxllc.com>

MISCELLANEOUS INSTRUMENTS

NO MISCELLANEOUS INSTRUMENTS FOUND.



THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-293721-47

Our Environmental Lien and AUL report provides a summary of recorded information on a specific property from the time the current owner purchased the property, to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from the time the current owner purchased the property, forward. This report complies with ASTM 1527-21 standards when used in conjunction with a review of the owner's most recent insurance title policy. Environmental Liens and Activity Use Limitations may exist in the insurance title policy that do not appear within this report.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

DISCLAIMER

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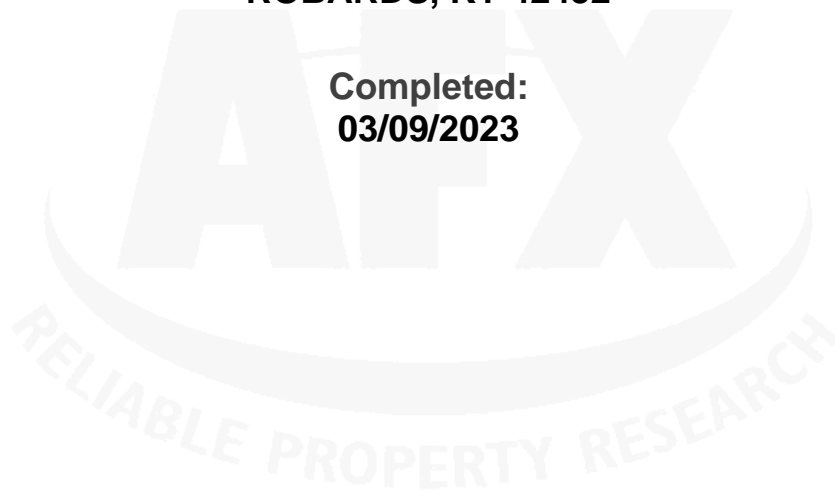


ENVIRONMENTAL LIEN AND AUL REPORT

**Order Number:
79-293717-47**

**Subject Property:
8619 THOMASON RD
ROBARDS, KY 42452**

**Completed:
03/09/2023**



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ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 2 of 4)

Order #: 79-293717-47 | Completed: 03/09/2023

SOURCES SEARCHED

Source 1: HENDERSON COUNTY RECORDER'S OFFICE

Source 2: KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Examiner Notes: **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s): LAURA ANN LOGSDON AND DEREK H. LOGSDON (AKA HERMAN DEREK LOGSDON), WIFE AND HUSBAND

Street Address: 8619 THOMASON RD

City, State Zip Code: ROBARDS, KY 42452

APN/Parcel/PIN: 61-8.1
11133

County: HENDERSON

Legal Description: FARM - 25.81 ACRES

PROPERTY OWNERSHIP

Instrument: **DEED**

Date Recorded: 07/26/1996

Book/Page: 460/555

Dated: 06/28/1996

Grantor(s): LAURA ANN LOGSDON AND DEREK H. LOGSDON (AKA HERMAN DEREK LOGSDON), WIFE AND HUSBAND, AND STEVEN S. CRONE, TRUSTEE

Grantee(s): LAURA ANN LOGSDON AND DEREK H. LOGSDON (AKA HERMAN DEREK LOGSDON), WIFE AND HUSBAND

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

LEASES

NO LEASES FOUND.



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MISCELLANEOUS INSTRUMENTS

NO MISCELLANEOUS INSTRUMENTS FOUND.



THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-293717-47

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- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
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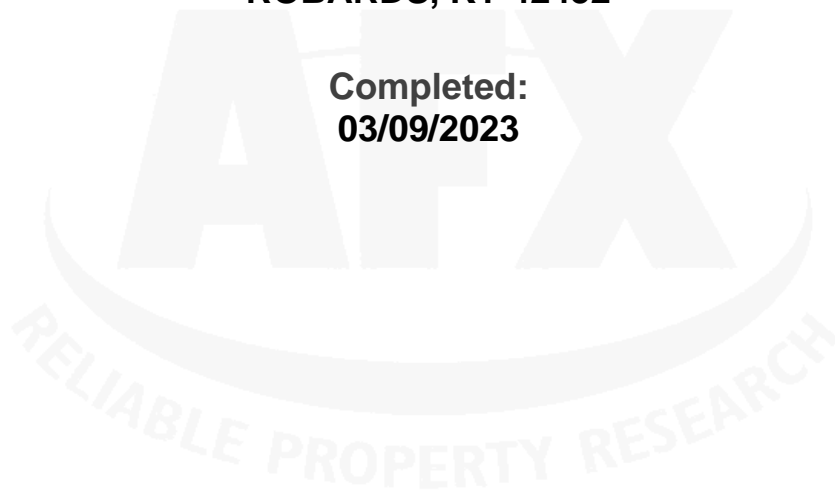


ENVIRONMENTAL LIEN AND AUL REPORT

**Order Number:
79-293718-47**

**Subject Property:
8653 THOMASON RD
ROBARDS, KY 42452**

**Completed:
03/09/2023**



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ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 2 of 4)

Order #: 79-293718-47 | Completed: 03/09/2023

SOURCES SEARCHED

Source 1: HENDERSON COUNTY RECORDER'S OFFICE

Source 2: KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Examiner Notes: **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s): WILLIAM DAVID DENTON

Street Address: 8653 THOMASON RD

City, State Zip Code: ROBARDS, KY 42452

APN/Parcel/PIN: 61-8
4735

County: HENDERSON

Legal Description: FARM - 25.8138 ACRES

PROPERTY OWNERSHIP

Instrument: **DEED**

Date Recorded: 12/26/1996

Book/Page: 464/514

Dated: 01/09/1996

Grantor(s): WILLIAM T DENTON AND HALLIE DENTON, H & W

Grantee(s): WILLIAM DAVID DENTON

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

LEASES

NO LEASES FOUND.



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MISCELLANEOUS INSTRUMENTS

NO MISCELLANEOUS INSTRUMENTS FOUND.



THANK YOU FOR YOUR ORDER

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Order Number:
79-293718-47

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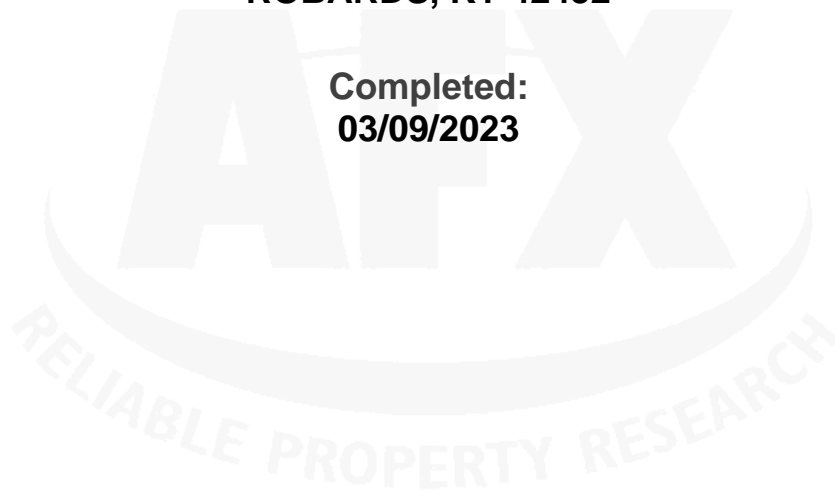


ENVIRONMENTAL LIEN AND AUL REPORT

Order Number:
79-293719-47

Subject Property:
**8660 THOMASON RD
ROBARDS, KY 42452**

Completed:
03/09/2023



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ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 2 of 4)

Order #: 79-293719-47 | Completed: 03/09/2023

SOURCES SEARCHED

Source 1: HENDERSON COUNTY RECORDER'S OFFICE

Source 2: KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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TARGET PROPERTY

Current Owner(s): WILLIAM DAVID DENTON

Street Address: 8660 THOMASON RD

City, State Zip Code: ROBARDS, KY 42452

APN/Parcel/PIN: 61-23

County: HENDERSON

Legal Description: FARM - 54.14 ACRES

PROPERTY OWNERSHIP

Instrument: **DEED**

Date Recorded: 06/13/2018

Book/Page: 631/296

Dated: 06/07/2018

Grantor(s): LAURA ANNE LOGSDON AND HER HUSBAND, HERMAN DEREK LOGSDON

Grantee(s): WILLIAM DAVID DENTON

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.

LEASES

NO LEASES FOUND.

MISCELLANEOUS INSTRUMENTS

NO MISCELLANEOUS INSTRUMENTS FOUND.



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ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 3 of 4)

Order #: 79-293719-47 | Completed: 03/09/2023



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79-293719-47

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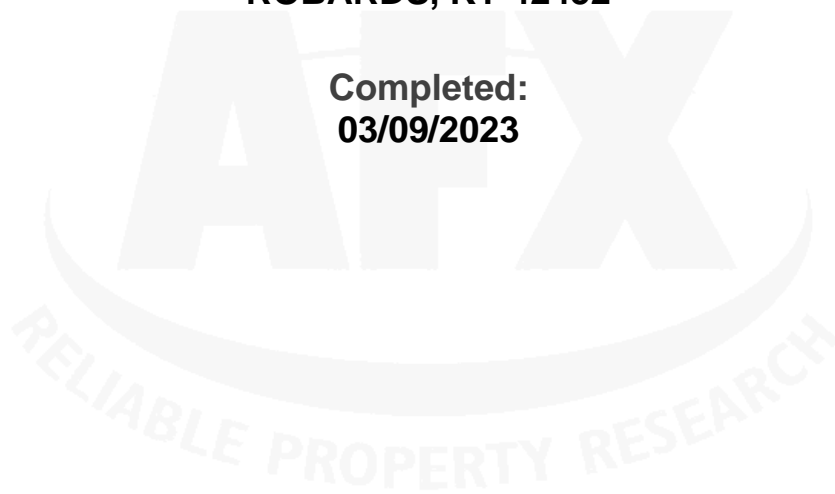


ENVIRONMENTAL LIEN AND AUL REPORT

**Order Number:
79-293720-47**

**Subject Property:
8926 THOMASON RD
ROBARDS, KY 42452**

**Completed:
03/09/2023**



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ENVIRONMENTAL LIEN AND AUL REPORT

(pg. 2 of 4)

Order #: 79-293720-47 | Completed: 03/09/2023

SOURCES SEARCHED

Source 1: HENDERSON COUNTY RECORDER'S OFFICE

Source 2: KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Examiner Notes: **NOTICE:** JUDICIAL RECORDS NOT SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION DOES NOT REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

TARGET PROPERTY

Current Owner(s): LAURA ANNE LOGSDON
LAURA ANNE LOGSDON AND WILLIAM DAVID DENTON, AN UNDIVIDED 1/2 INTEREST EACH

Street Address: 8926 THOMASON RD

City, State Zip Code: ROBARDS, KY 42452

APN/Parcel/PIN: 61-21
43940

County: HENDERSON

Legal Description: FARM - 43.37 ACRES

PROPERTY OWNERSHIP

Instrument 1. DEED

Date Recorded: 06/13/2018

Book/Page: 631/293

Dated: 06/07/2018

Grantor(s): WILLIAM DAVID DENTON, AND HIS WIFE SARAH MARKEITHA DENTON

Grantee(s): LAURA ANNE LOGSDON

Instrument 2. DEED

Date Recorded: 03/11/2013

Book/Page: 595/141

Dated: 03/06/2013

Grantor(s): WILLIAM T DENTON AND HALLIE DENTON, H & W, RELINQUISING THEIR LIFE ESTATE

Grantee(s): LAURA ANNE LOGSDON AND WILLIAM DAVID DENTON, AN UNDIVIDED 1/2 INTEREST EACH

ENVIRONMENTAL LIENS

NO ENVIRONMENTAL LIENS FOUND.

ACTIVITY AND USE LIMITATIONS (AUL)

NO AUL FOUND.



AFX RESEARCH, LLC
999 Monterey St. Suite 380, San Luis Obispo, CA 93401
Ph: (877) 848-5337 Fax: (800) 201-0620
<https://www.afxllc.com>

LEASES

NO LEASES FOUND.

MISCELLANEOUS INSTRUMENTS

NO MISCELLANEOUS INSTRUMENTS FOUND.



THANK YOU FOR YOUR ORDER

For questions, please contact our office at 1-877-848-5337.

Order Number:
79-293720-47

Our Environmental Lien and AUL report provides a summary of recorded information on a specific property from the time the current owner purchased the property, to present time. The report is intended to assist in the search for environmental liens filed in land title records. The report will verify property ownership and provide information on recorded environmental liens and/or Activity and Use Limitations that have been recorded from the time the current owner purchased the property, forward. This report complies with ASTM 1527-21 standards when used in conjunction with a review of the owner's most recent insurance title policy. Environmental Liens and Activity Use Limitations may exist in the insurance title policy that do not appear within this report.

Our professional network of trained researchers follow established industry protocols and use client-supplied property information to complete this Environmental Lien and AUL report. The research is conducted at all appropriate government offices based on the location of the subject property. This would include City, County, State, Federal and Tribal offices as needed. The report includes:

- Current deed information (i.e. grantor, grantee, recording dates)
- Legal Description
- Environmental Lien information
- Activity and Use Limitation information
- Any Environmental Liens and/or documents referencing AULs that are listed within our summary report

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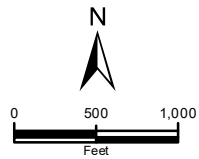


Appendix E

Historical Sources



 Project Boundary (± 242.33 Ac.)




**Historical Aerial Map
1956 Photograph**

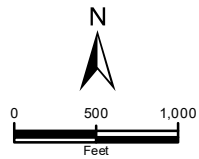
Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023



Base Layer: USDA Single Frame 1956



 Project Boundary (± 242.33 Ac.)

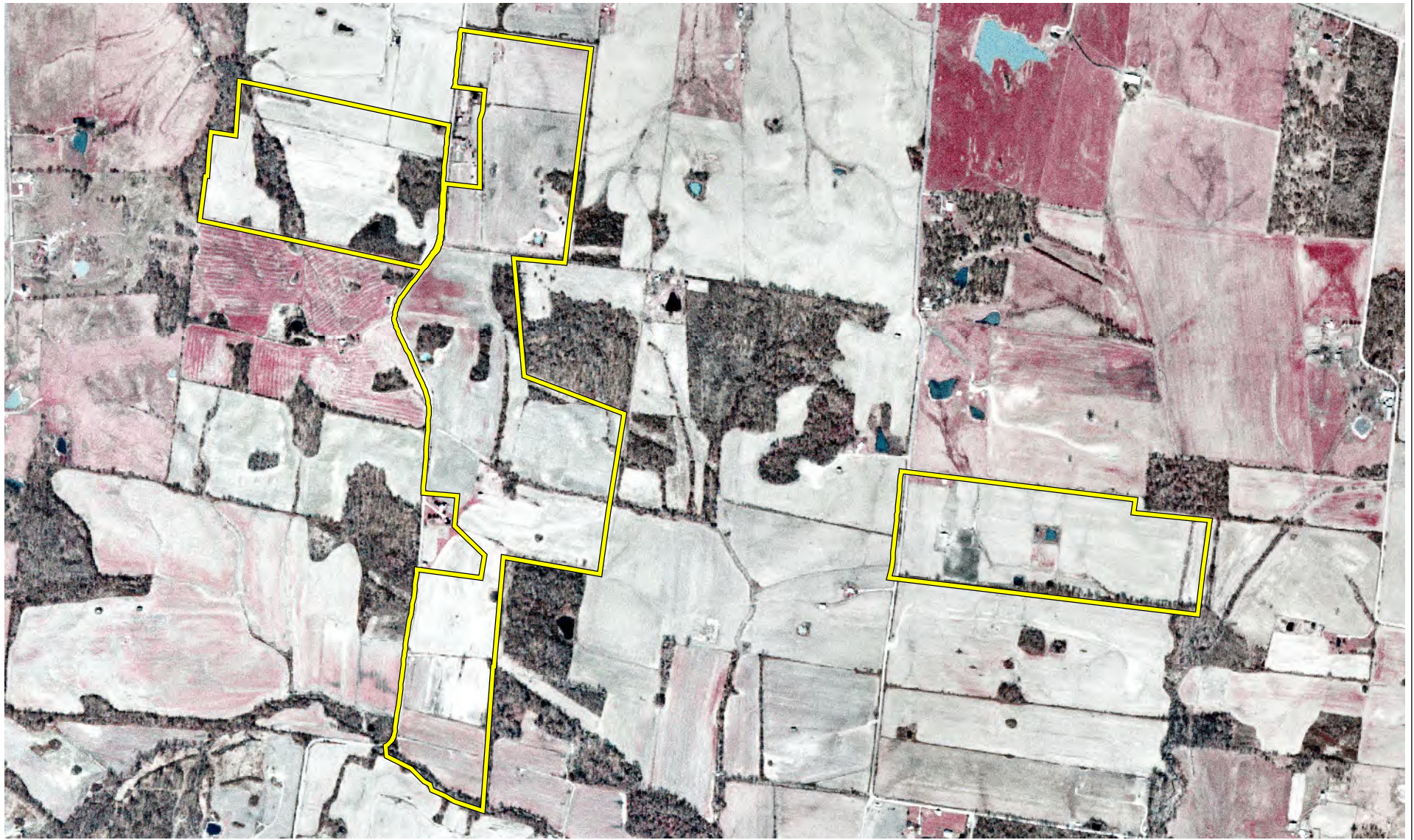



**Historical Aerial Map
1968 Photograph**

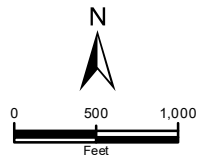
Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023



Base Layer: USDA Single Frame 1968



 Project Boundary (± 242.33 Ac.)

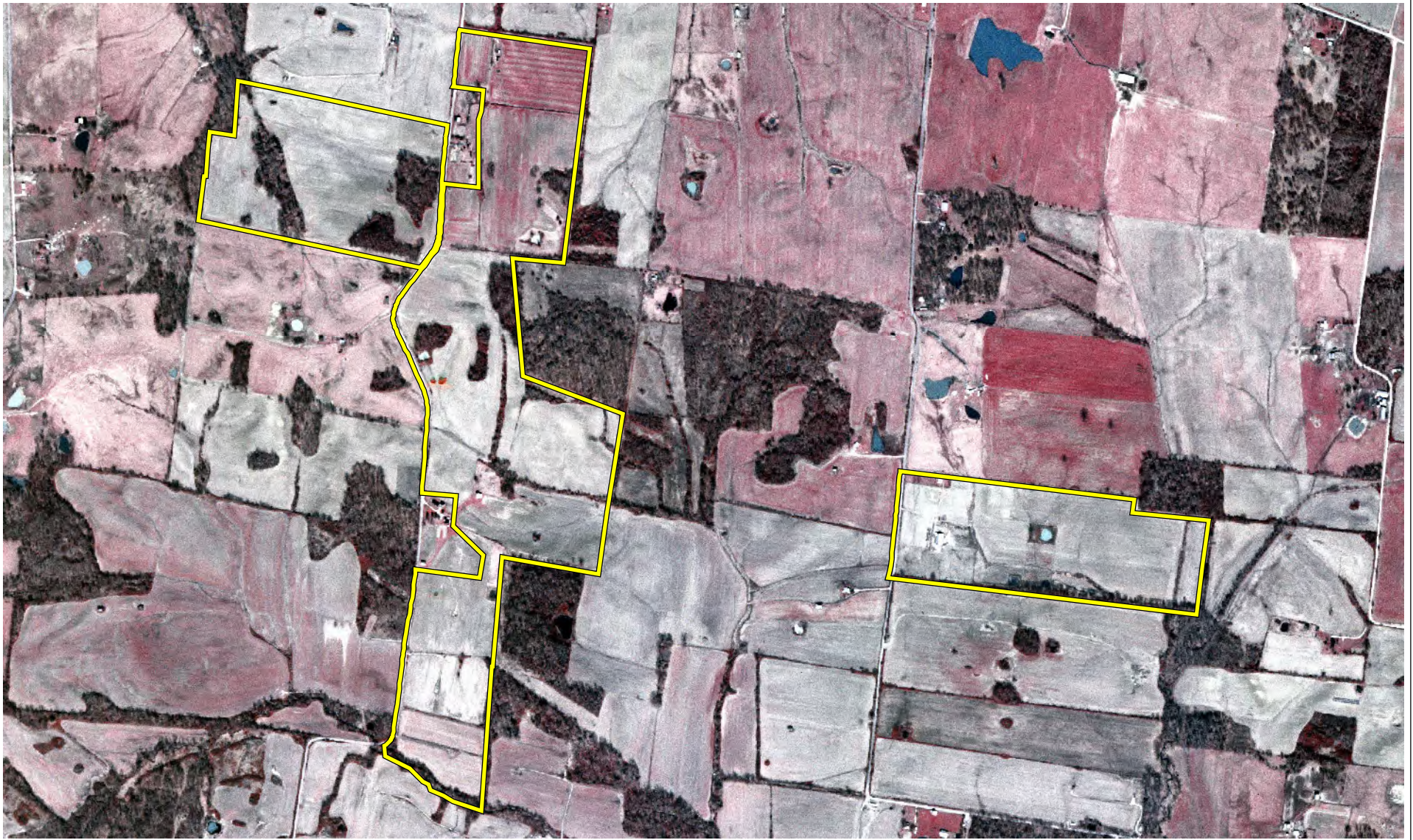



Base Layer: USDA NHAP 1982

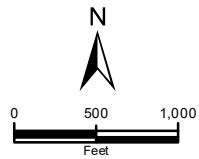
**Historical Aerial Map
1982 Photograph**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA NHAP 1983

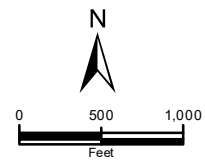
**Historical Aerial Map
1983 Photograph**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA NAPP 1992

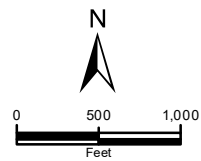
**Historical Aerial Map
1992 Photograph**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA NAPP 1993

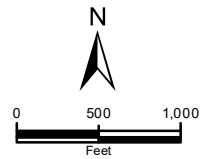
**Historical Aerial Map
1993 Photograph**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)

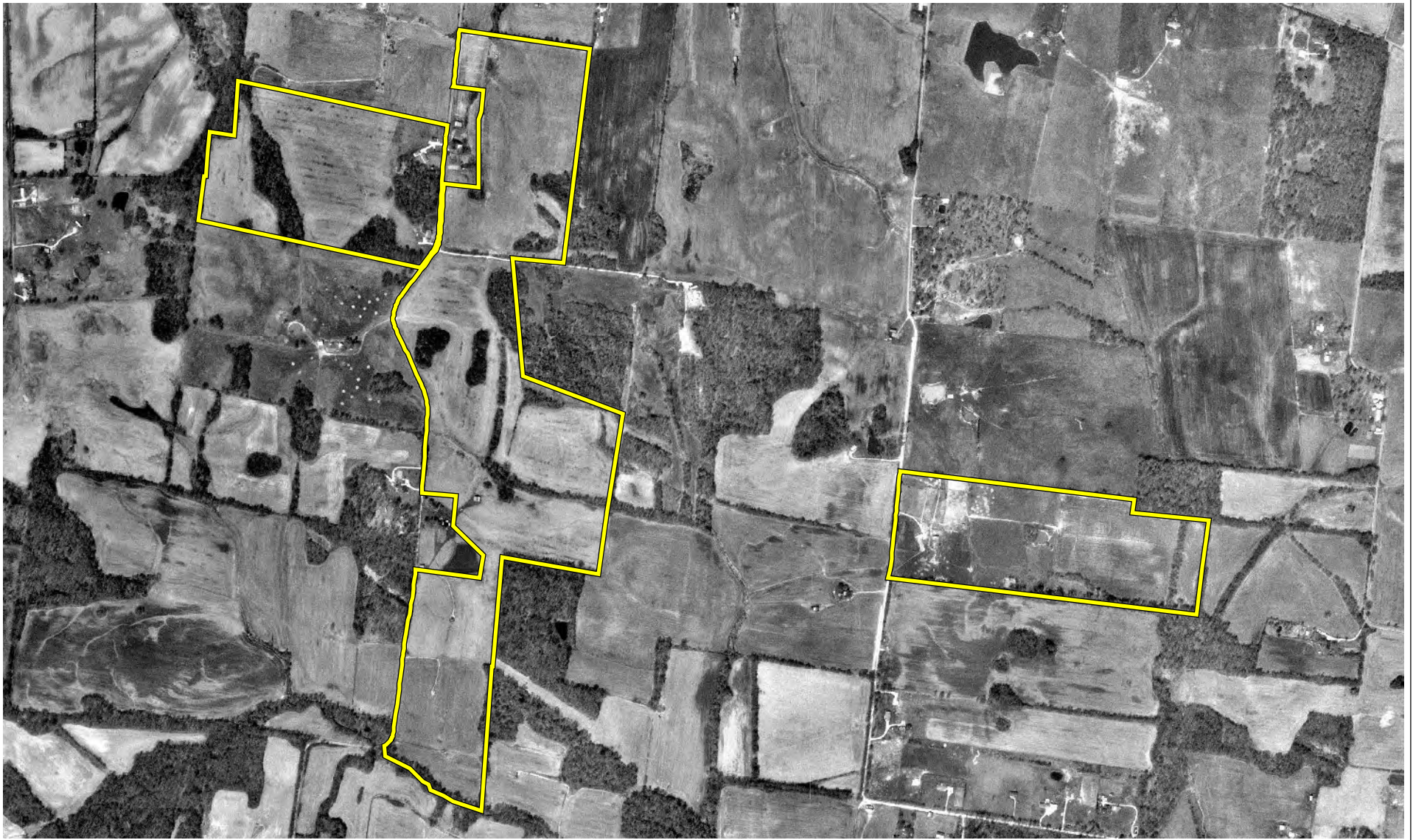



Base Layer: USDA NAPP 1994

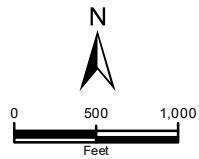
**Historical Aerial Map
1994 Photograph**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA DOQ 1998

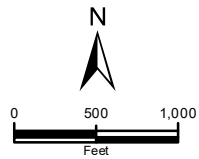
**Historical Aerial Map
1998 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)

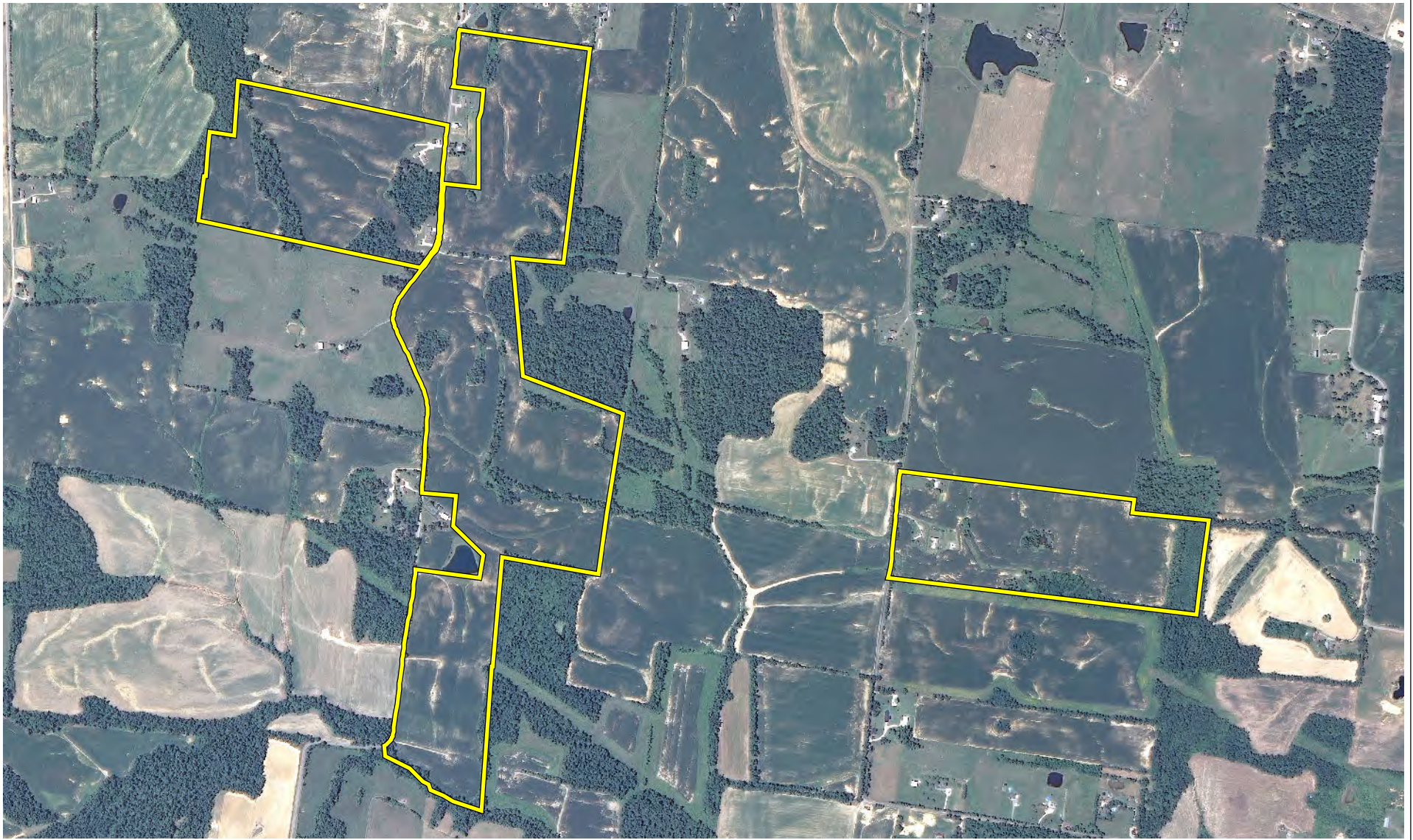



Base Layer: USDA NAIP 2008

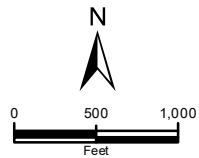
**Historical Aerial Map
2008 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)

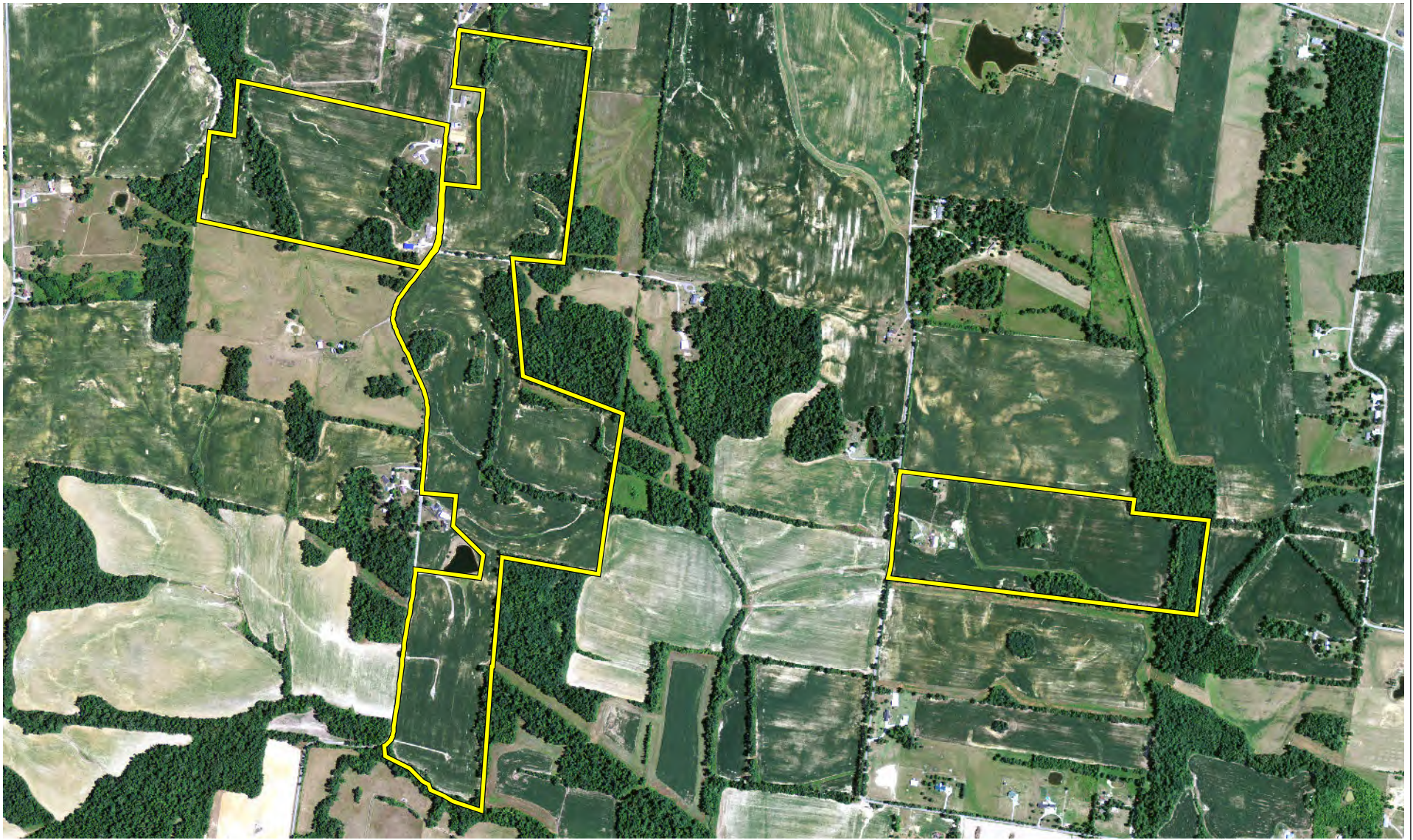



Base Layer: USDA NAIP 2010

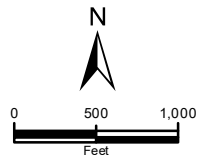
**Historical Aerial Map
2010 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA NAIP 2012

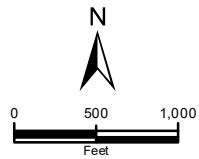
**Historical Aerial Map
2012 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA NAIP 2014

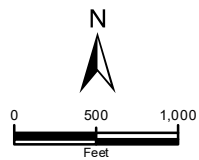
**Historical Aerial Map
2014 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)

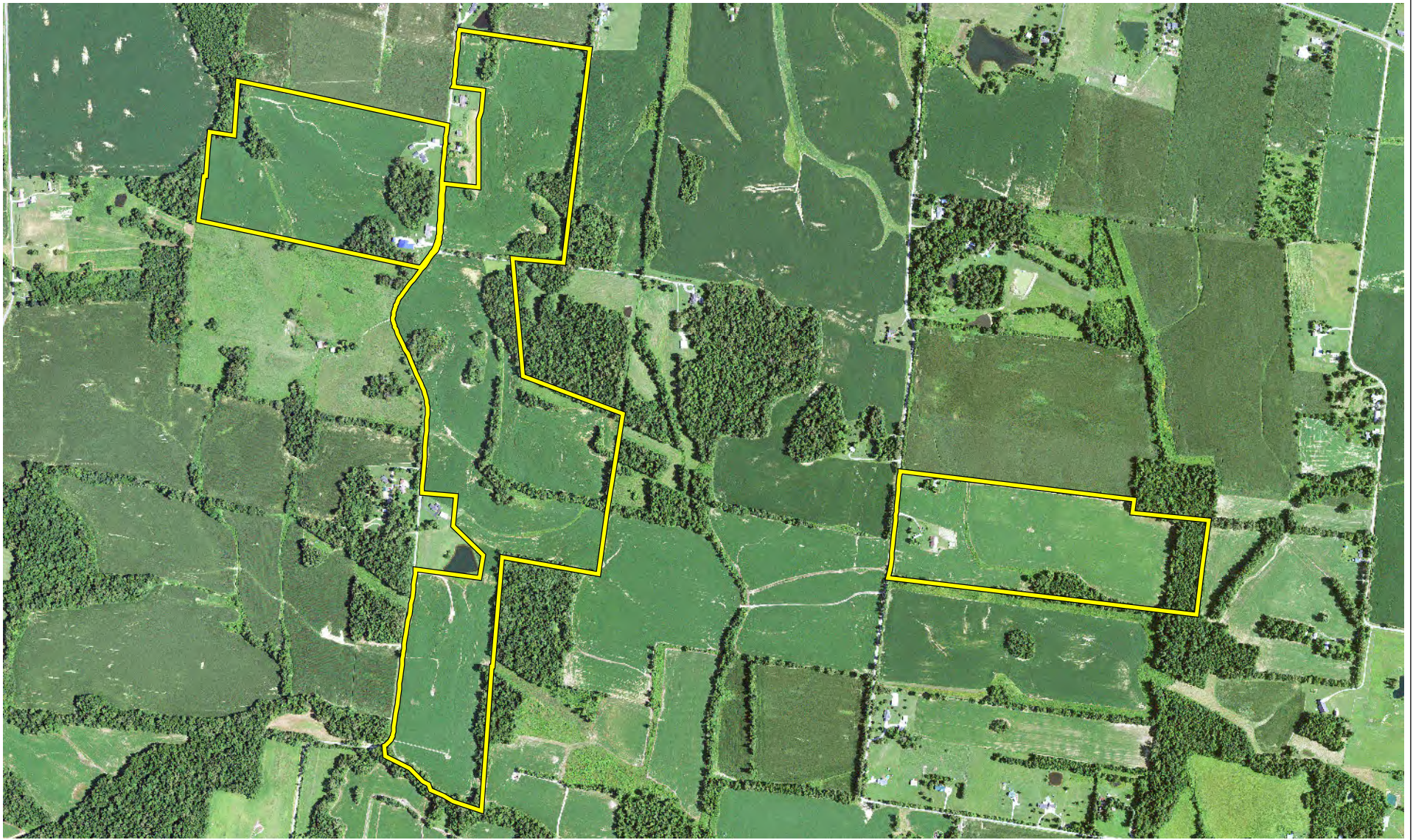



Base Layer: USDA NAIP 2016

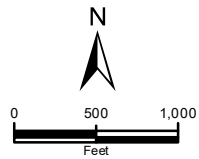
**Historical Aerial Map
2016 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)




Base Layer: USDA NAIP 2018

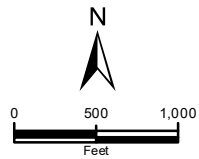
**Historical Aerial Map
2018 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





 Project Boundary (± 242.33 Ac.)



Base Layer: USDA NAIP 2020

**Historical Aerial Map
2020 Orthophoto**

Sebree II Solar Project
Henderson County, KY
Date: 3/30/2023





Historical Topographic Map Report | 2023

Order Number: 83842

Report Generated: 02/21/2023

Project Name: Sebree II (Additional Parcels)

Project Number: 220483-0600

Sebree II (Additional Parcels)

Henderson County, KY

Contact us at:
(866) 211-2028
envirositecorp.com

Envirosite's Historical Topographic Map Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Historical Topographic Map Report includes a search of USGS historical topographic maps, dating back to the early 1900s.

TOPOGRAPHIC MAPS FOUND:

	<u>Map Name:</u>	<u>Year:</u>	<u>Revision Year:</u>	<u>Scale:</u>
1.	<u>Sebree</u>	1906	N/R	1 : 62500
2.	<u>Robards</u>	1949	N/R	1 : 24000
3.	<u>Robards</u>	1951	N/R	1 : 24000
4.	<u>Robards</u>	1969	N/R	1 : 24000
5.	<u>Robards</u>	2010	N/R	1 : 24000
6.	<u>Robards</u>	2013	N/R	1 : 24000
7.	<u>Robards</u>	2016	N/R	1 : 24000
8.	<u>Robards</u>	2019	N/R	1 : 24000
9.	<u>Robards</u>	2022	N/R	1 : 24000

The USGS 7.5 minute series includes scales 1:24,000 / 1:25,000 / 1:31,680. The USGS 15 minute series includes scales 1:48,000 / 1:62,500 / 1:63,360. The USGS 30x60 minute series scale is 1:100,000.

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SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

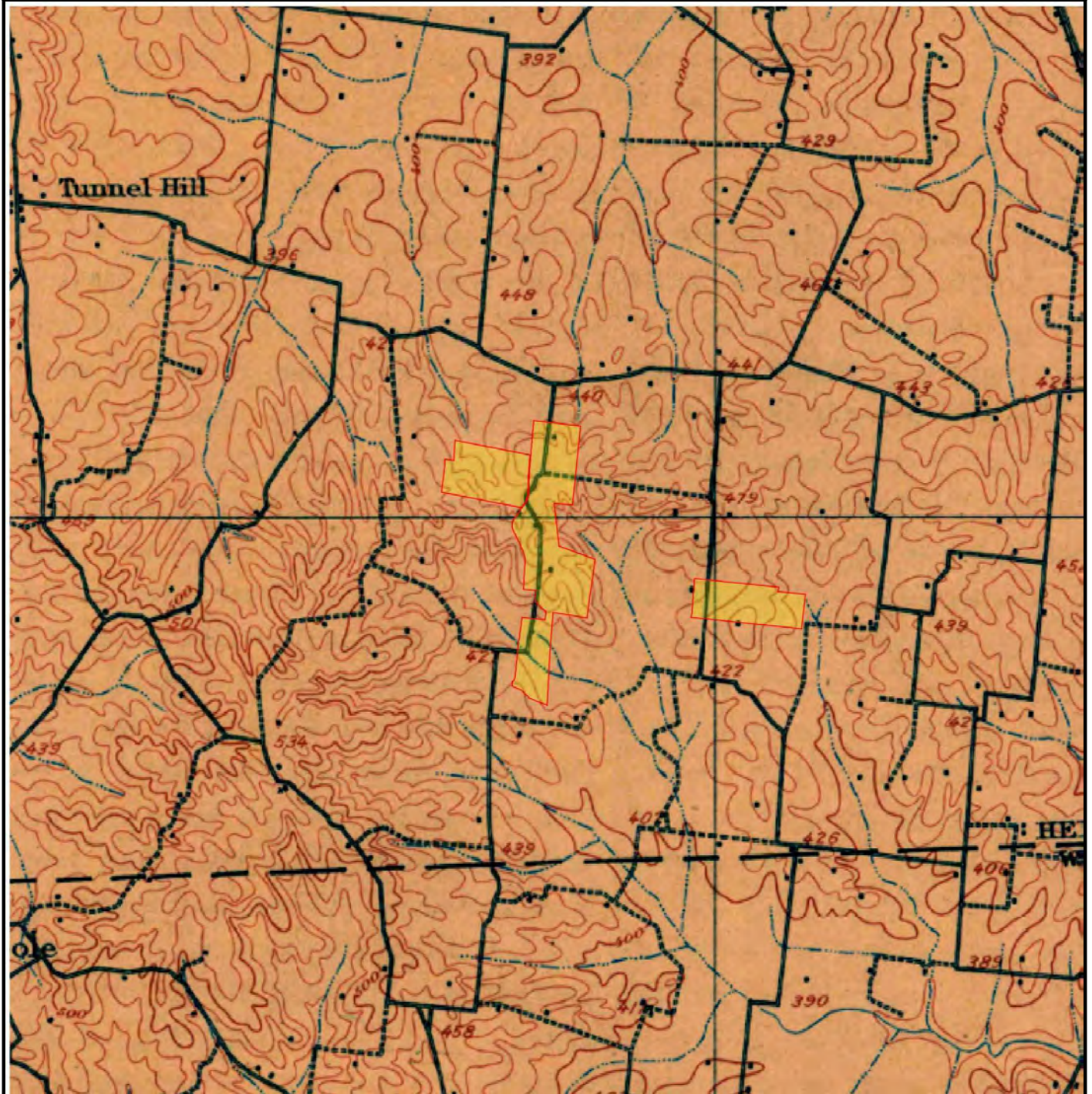
MAP NAME: Sebree

MAP YEAR: 1906

REVISION YEAR: N/R

SCALE: 1 : 62500

Part 1



SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

MAP NAME: Robards

MAP YEAR: 1949

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1



SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

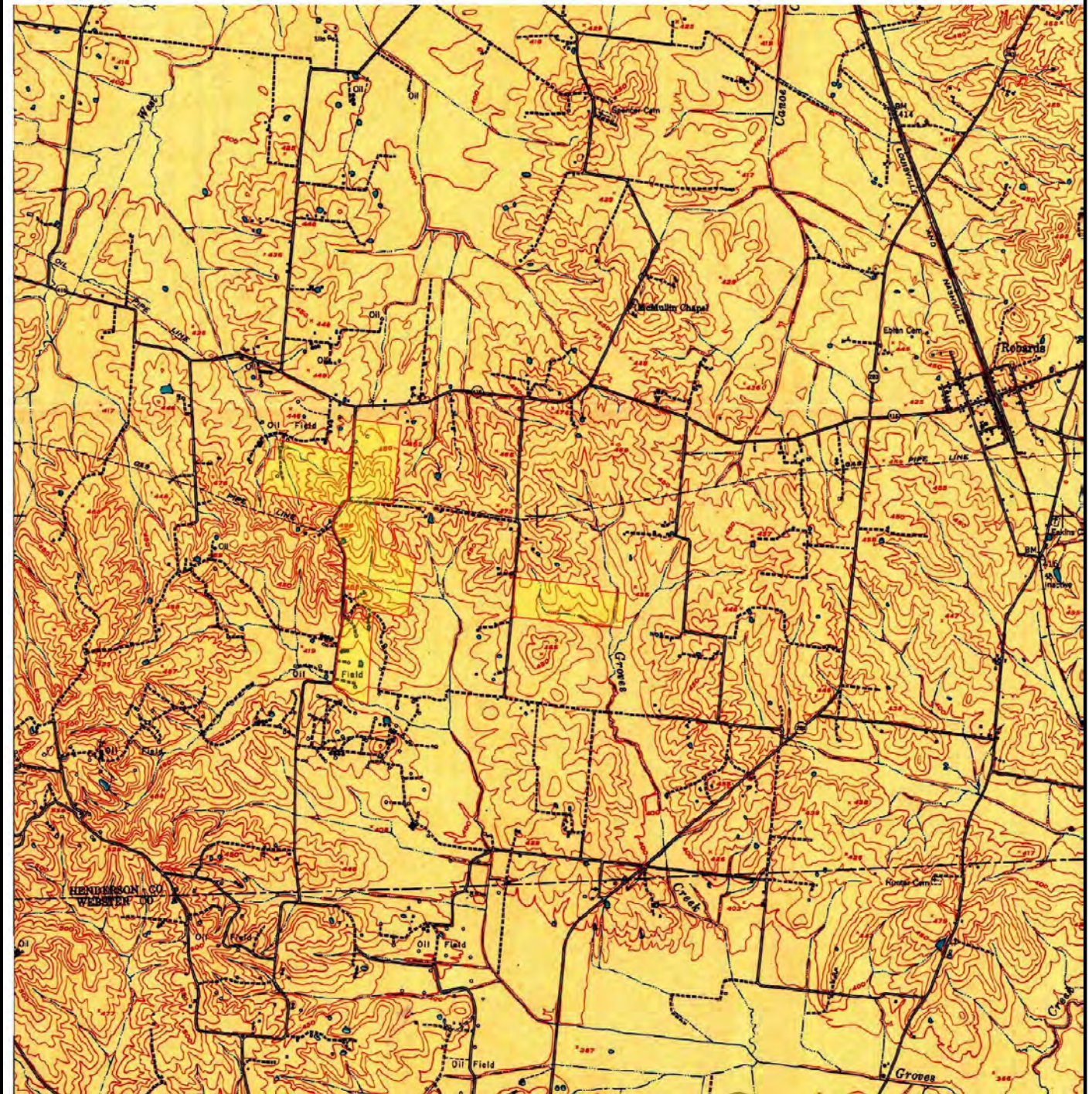
MAP NAME: Robards

MAP YEAR: 1951

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1



SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

MAP NAME: Robards

MAP YEAR: 1969

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1



SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

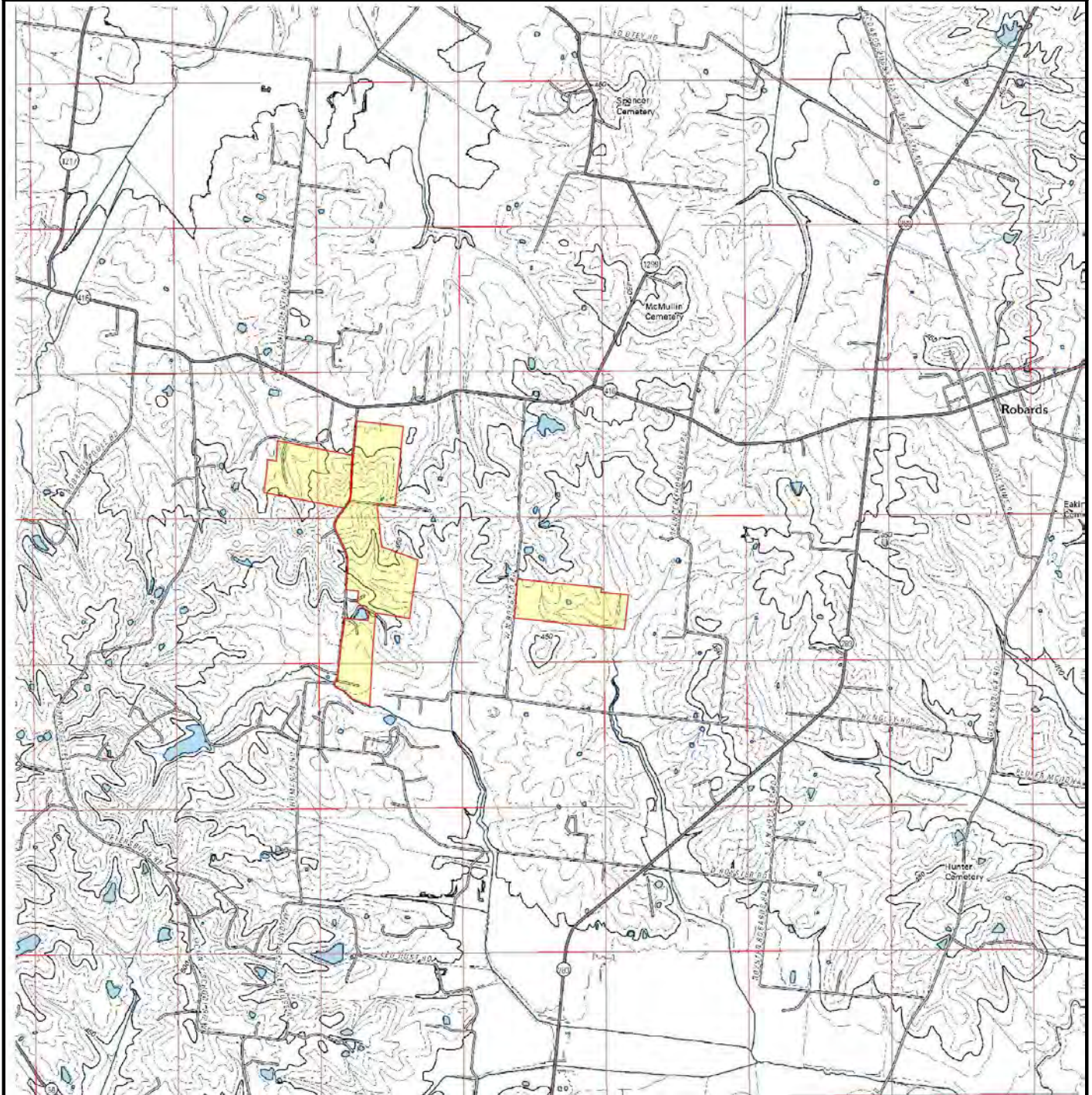
MAP NAME: Robards

MAP YEAR: 2010

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1

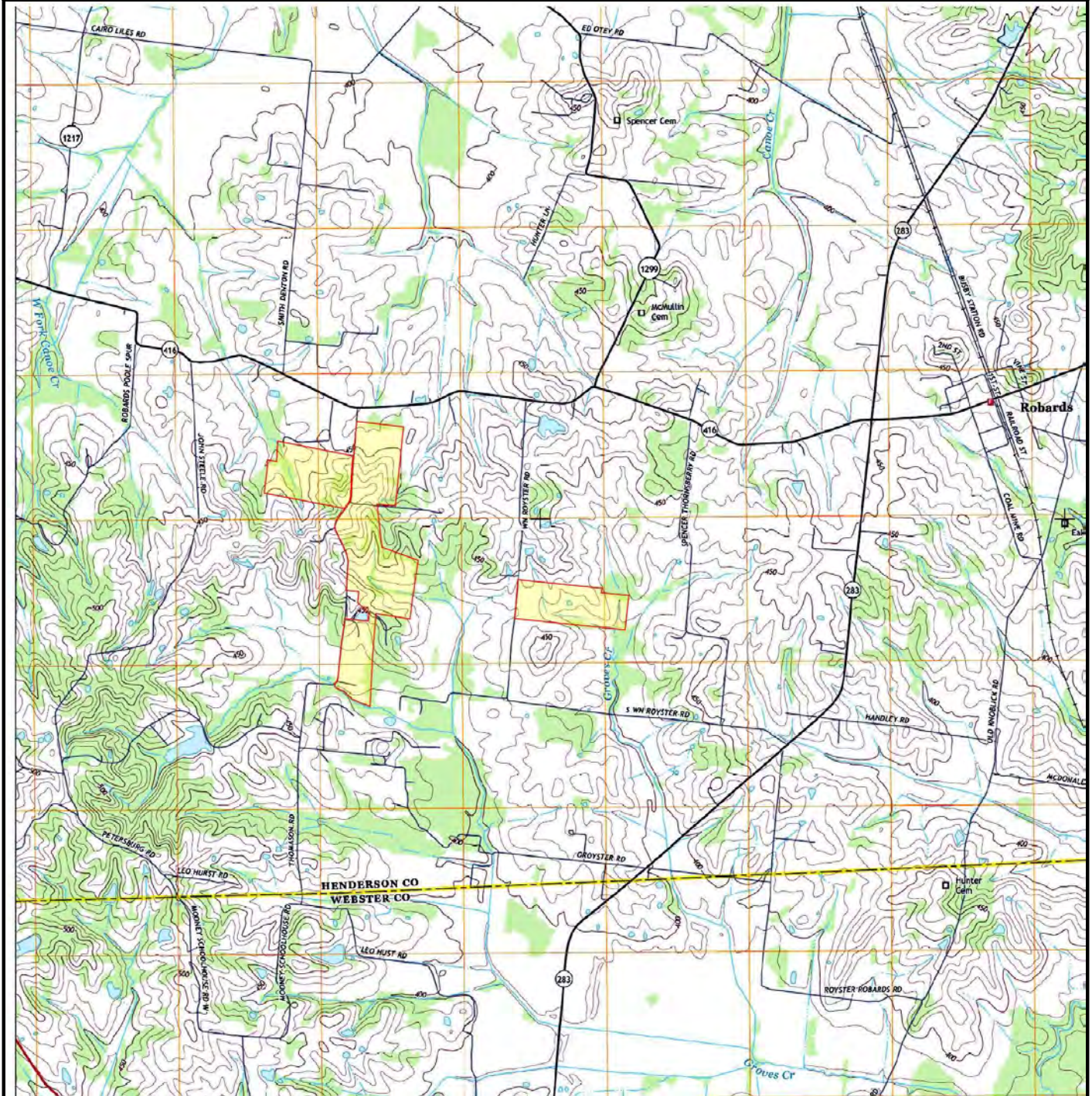


SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

MAP NAME: Robards MAP YEAR: 2013 REVISION YEAR: N/R
SCALE: 1 : 24000 Part 1

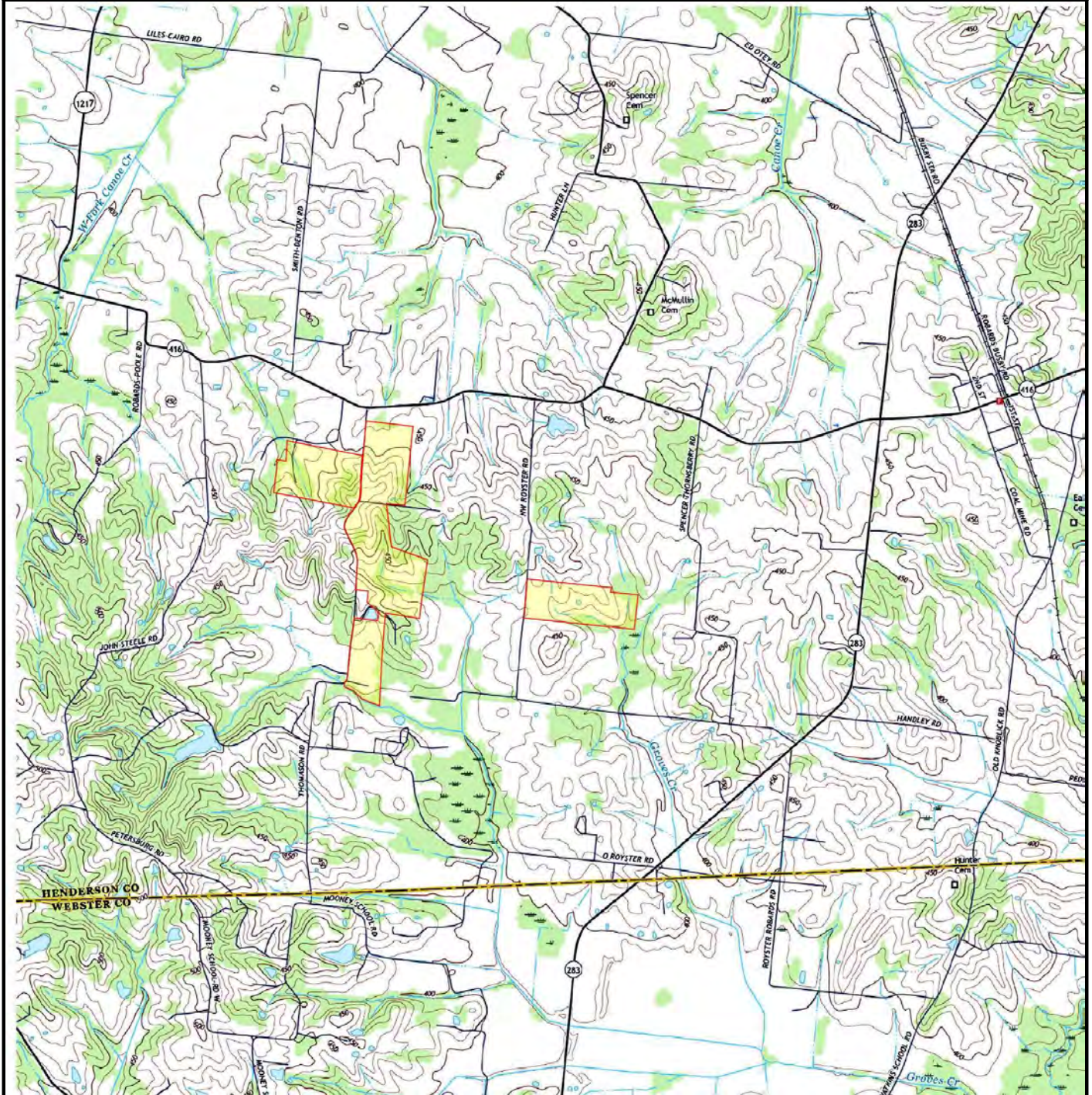


SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

MAP NAME:	Robards	MAP YEAR:	2016	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		

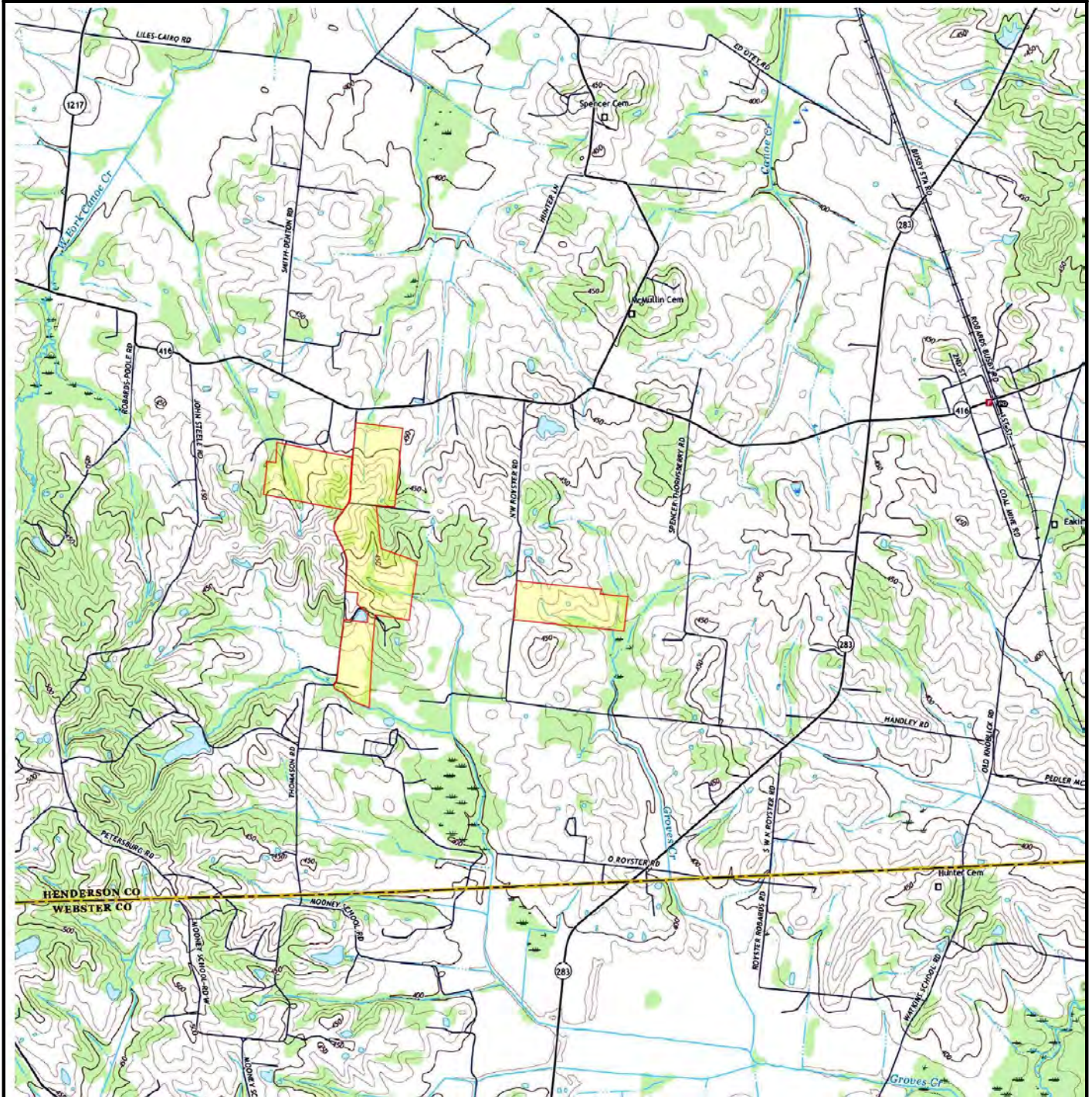


SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

MAP NAME: Robards MAP YEAR: 2019 REVISION YEAR: N/R
SCALE: 1 : 24000 Part 1

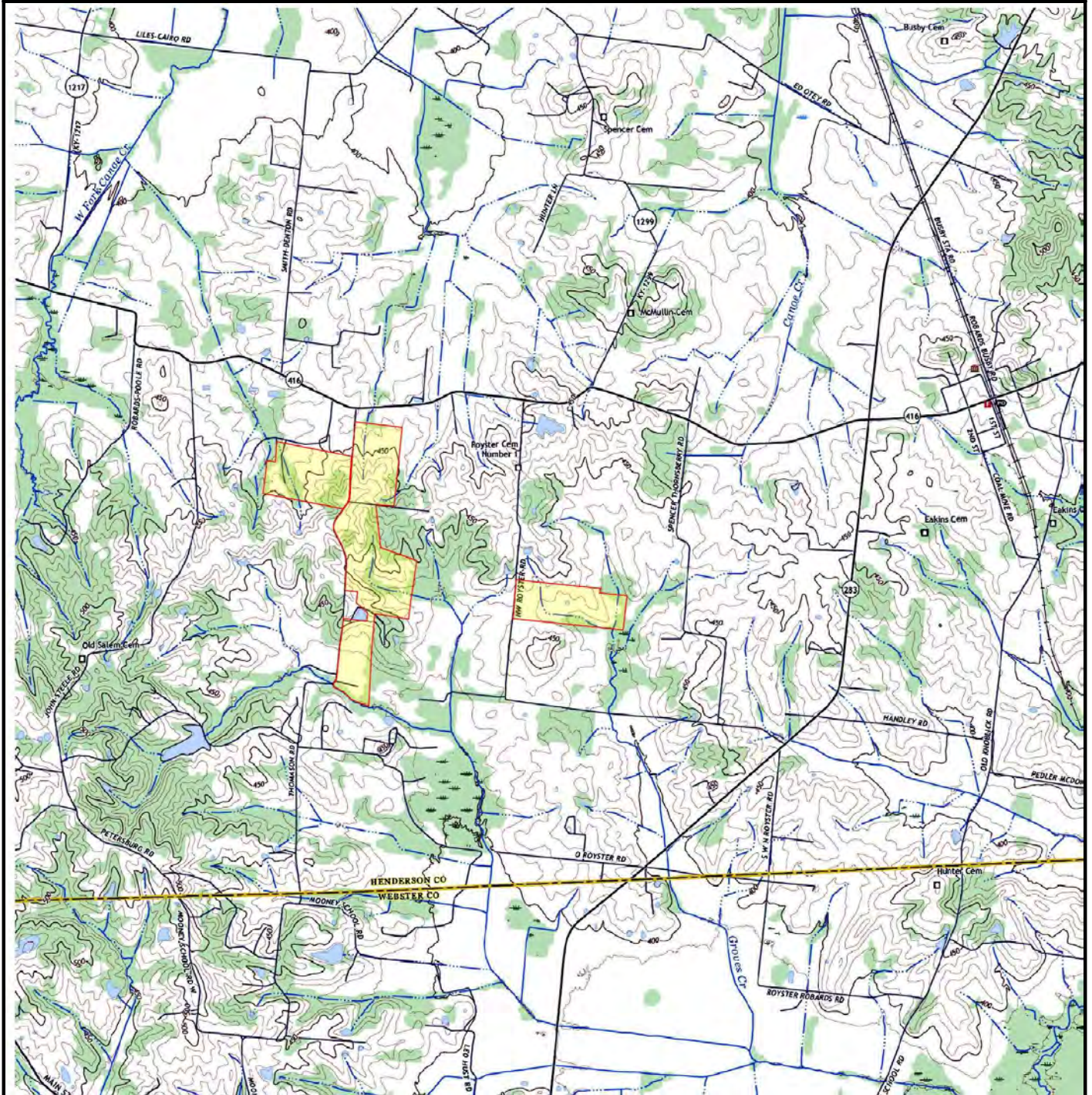


SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology, Inc Bay City
ORDER #: 83842
REPORT DATE: 02/21/2023

SUBJECT QUAD:

MAP NAME:	Robards	MAP YEAR:	2022	REVISION YEAR:	N/R
SCALE:	1 : 24000	Part	1		



Appendix F

Regulatory Database Report



Government Records Report | 2023

Order Number: 83842

Report Generated: 02/21/2023

Project Name: Sebree II (Additional Parcels)

Project Number: 220483-0600

Sebree II (Additional Parcels)

Henderson County, KY

with [Envirosite Atlas](#)

Contact us at:
(866) 211-2028
envirositecorp.com

Section	Page
<u>Executive Summary</u>	<u>1</u>
<u>Executive Summary by Distance</u>	<u>2</u>
<u>Executive Summary by Database</u>	<u>3</u>
<u>Property Proximity Map</u>	<u>8</u>
<u>Area Map</u>	<u>9</u>
<u>Map Findings Summary</u>	<u>10</u>
<u>Map Findings</u>	<u>16</u>
<u>Unmappable Summary</u>	<u>18</u>
<u>Environmental Records Searched</u>	<u>19</u>
<u>Geological Landscape Section</u>	<u>39</u>
<u>Geological Landscape Section Soil Map</u>	<u>42</u>
<u>Geological Landscape Section Summary</u>	<u>43</u>
<u>Geological Findings Map</u>	<u>291</u>
<u>Geological Landscape Section Map Findings</u>	<u>292</u>
<u>Geological Landscape Section Map Findings Radon</u>	<u>523</u>
<u>Geological Landscape Records Searched</u>	<u>524</u>

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Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-21 Environmental Site Assessments standard.

SUBJECT PROPERTY INFORMATION:

ADDRESS:

Sebree II (Additional Parcels)

Henderson County, KY

COORDINATES:

Latitude (North):	37.663848 - 37°39'49.9"
Longitude (West):	-87.590765 - -87°35'26.8"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	447896.31
UTM Y (Meters):	4168683.46
State Plane Coordinates:	1602 - Kentucky South (US Survey Feet)
X Coordinate (Feet):	1107616.947 E
Y Coordinate (Feet):	2130039.177 N

ELEVATION:

Elevation: 433 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:

Subject Property Map: 37087-F5 Robards, KY
Most Recent Revision: 2019

<u>MAP ID</u>	<u>SITE NAME</u>	<u>ADDRESS</u>	<u>DATABASE(S)</u>	<u>RELATIVE ELEVATION</u>	<u>DIRECTION / DISTANCE</u>
1	COUNTRYMARK ENERGY RESOURCES,...	37.665796, -87.598897	UIC - KY		SP
2	HYDROCARBON INVESTMENTS, INC.	37.671205, -87.600264	UIC - KY	Higher	NW / 0.024 mi., 128 ft.

SUBJECT PROPERTY SEARCH RESULTS:

The subject property was identified in the following records. For more information on this property, see Map Findings section on page 16.

<u>SITE</u>	<u>DATABASE(S)</u>	<u>EPA ID</u>
COUNTRYMARK ENERGY RESOURCES, LLC 37.665796, -87.598897 KY	UIC - KY	KYS1010139

SEARCH RESULTS:

Following sites were unable to be mapped.

<u>SITE NAME:</u>	<u>ADDRESS, CITY, ZIP:</u>	<u>DATABASE(S):</u>
GIBBS DIE CASTING ALUMINUM CORP.	COMMUNITY DRIVE, HENDERSON 42420	HIST CORRACTS 2
HENDERSON MUNICIPAL GAS	222 FIRST ST.- CITY B..., HENDERSON 42420	PIPELINES
HENDERSON MUNICIPAL GAS	222 FIRST ST.- CITY B..., HENDERSON 42420	PIPELINES
US 41 S WEIGH STATION - HENDERSON C...	US 41 S, Henderson HENDERSON 42420	EPA UST, SHWS - KY, UST - KY, VCP - KY
WEBSTER COAL CO - RITIKI MINE	NONE, NONE	VCP - KY

DATABASE(S) WITH NO MAPPED SITES:

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS	ASTs at Bulk Petroleum Terminals
EPA UST	EPA UST Finder database
FEMA UST	FEMA Underground Storage Tanks
HIST INDIAN UST R6	Historical Underground Storage Tanks on Indian Land in EPA Region 6
HIST INDIAN UST R7	Historical Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
UST - KY	Underground Storage Tanks

FEDERAL CERCLIS LIST

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
EPA SAA	EPA Superfund Alternative Approach
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS	Hazardous Waste Corrective Action
HIST CORRACTS 2	Historical Hazardous Waste Corrective Action

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL Delisted National Priority List
 DELISTED PROPOSED NPL Delisted proposed National Priority List
 SEMS_DELETED NPL Sites Deleted from National Priorities List

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP EPA Landfill Methane Outreach Project Database

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST EPA LUST
 HIST INDIAN LUST R4 Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4
 HIST INDIAN LUST R8 Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8
 INDIAN LUST R1 Leaking Underground Storage Tanks on Indian Land in EPA Region 1
 INDIAN LUST R10 Leaking Underground Storage Tanks on Indian Land in EPA Region 10
 INDIAN LUST R2 Leaking Underground Storage Tanks on Indian Land in EPA Region 2
 INDIAN LUST R4 Leaking Underground Storage Tanks on Indian Land in EPA Region 4
 INDIAN LUST R5 Leaking Underground Storage Tanks on Indian Land in EPA Region 5
 INDIAN LUST R6 Leaking Underground Storage Tanks on Indian Land in EPA Region 6
 INDIAN LUST R7 Leaking Underground Storage Tanks on Indian Land in EPA Region 7
 INDIAN LUST R8 Leaking Underground Storage Tanks on Indian Land in EPA Region 8
 INDIAN LUST R9 Leaking Underground Storage Tanks on Indian Land in EPA Region 9
 LUST - KY Leaking Underground Storage Tanks

FEDERAL ERNS LIST

ERNS Emergency Response Notification System

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C Engineering Controls
 FED I C Institutional Controls
 RCRA IC_EC RCRA sites with Institutional and Engineering Controls

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
 HIST RCRA_LQG Historical Resource Conservation and Recovery Act_Large Quantity Generators
 HIST RCRA_NONGEN Historical Resource Conservation and Recovery Act_Non Generators
 HIST RCRA_SQG Historical Resource Conservation and Recovery Act_Small Quantity Generators
 RCRA_LQG Resource Conservation and Recovery Act_Large Quantity Generators
 RCRA_NONGEN Resource Conservation and Recovery Act_Non Generators
 RCRA_SQG Resource Conservation and Recovery Act_Small Quantity Generators
 RCRA_VSQG Resource Conservation and Recovery Act_Very Small Quantity Generator

FEDERAL NPL SITE LIST

NPL National Priority List
 NPL EPA R1 GIS GIS for EPA Region 1 NPL
 NPL EPA R3 GIS GIS for EPA Region 3 NPL
 NPL EPA R6 GIS GIS for EPA Region 6 NPL
 NPL EPA R8 GIS GIS for EPA Region 8 NPL
 NPL EPA R9 GIS GIS for EPA Region 9 NPL
 PART NPL Part National Priority List
 PROPOSED NPL Proposed National Priority List
 SEMS_FINAL NPL Sites included on the Final National Priorities List
 SEMS_PROPOSED NPL Sites Proposed to be Added to the National Priorities List

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS Tribal Brownfields
 BROWNFIELDS - KY Brownfields

STATE AND TRIBAL BROWNFIELD SITES (cont.)

HIST BROWNFIELDS - KY	Historical Brownfields
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STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

E C - KY	Engineering Controls
I C - KY	Institutional Controls

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST LF - KY	Historical Land Fills
SWF/LF - KY	Solid Waste Facilities and Landfills

STATE RCRA GENERATORS LIST

HWF - KY	Hazardous Waste
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STATE- AND TRIBAL - EQUIVALENT CERCLIS

SHWS - KY	State Hazardous Waste Sites
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STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - KY	Voluntary Cleanup Program
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LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES	EPA ACRES Brownfields
FED BROWNFIELDS	Federal Brownfields

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs
CDL - KY	Clandestine Drug Labs
CDL LOUISVILLE - KY	Louisville Clandestine Drug Labs

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites
SWRCY - KY	Solid Waste Recycling

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
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LOCAL LAND RECORDS

LIENS 2	CERCLA Lien Information
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OTHER ASCERTAINABLE RECORDS

AFS	Air Facility Systems
ALT FUELING	Alternative Fueling Stations
ARENAS	ARENAS
ARENAS 2	ARENAS (additional)
BRS	Biennial Reporting Systems
CDC HAZDAT	Hazardous Substance Release and Health Effects Information
CHURCHES	CHURCHES
COAL ASH DOE	Coal Ash: Department of Energy
COAL ASH EPA	Coal Ash: Environmental Protection Agency
COAL GAS	Coal Gas Plants
COLLEGES	COLLEGES
COLLEGES 2	COLLEGES 2
CONSENT (DECREES)	Superfund Consent Decree
CORRECTIVE ACTIONS_2020	Wastes - Hazardous Waste - Corrective Action
DAYCARE	DAYCARE
DEBRIS EPA LF	EPA Disaster Debris Landfill Sites
DEBRIS EPA SWRCY	EPA Disaster Debris Recovery Sites
DOD	Department of Defense

OTHER ASCERTAINABLE RECORDS (cont.)

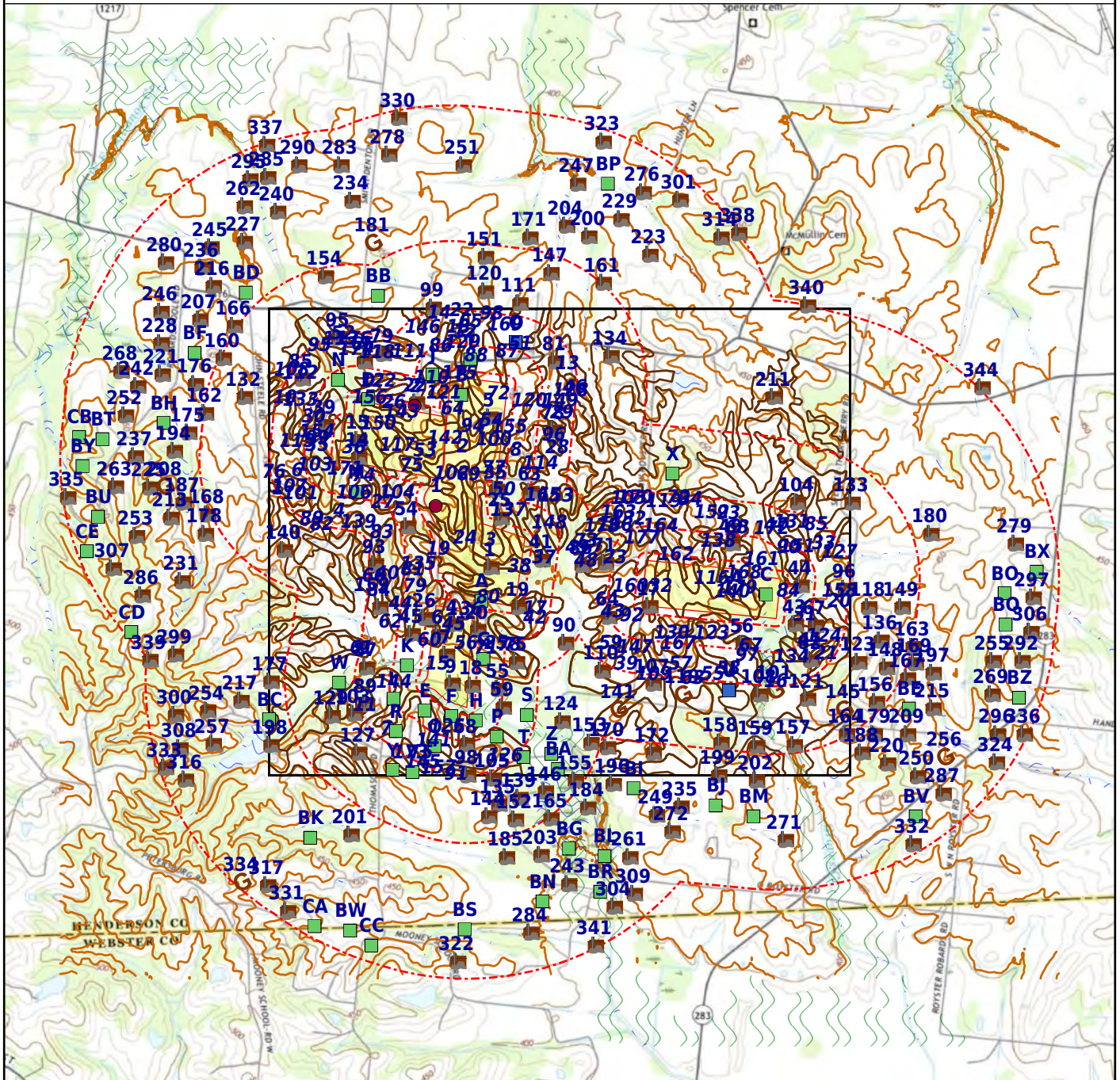
DOT OPS	Department of Transportation Office of Pipeline Safety
ECHO	EPA Enforcement and Compliance History Online
ENOI	Electronic Notice of Intent
EPA FUELS	EPA Fuels Registration, Reporting, and Compliance List
EPA OSC	EPA On-Site Coordinator
EPA WATCH	EPA Watch List
FA HWF	Financial Assurance for Hazardous Waste Facilities
FEDLAND	Federal Lands
FRS	Facility Index Systems
FTTS	FIFRA/TSCA Tracking System
FTTS INSP	FIFRA/TSCA Tracking System: Inspections
FUDS	Formerly Used Defense Sites
GOV MANSIONS	Governors Mansions
HIST AFS	Historical Air Facility Systems
HIST AFS 2	Historical Air Facility Systems
HIST DOD	Department of Defense historical sites
HIST LEAD_SMELTER	Historical Lead Smelter Sites
HIST MLTS	Historical Material Licensing Tracking Systems
HIST PCB TRANS	Historical Polychlorinated Biphenyl (PCB) Facilities
HIST PCS ENF	Historical Enforced Permit Compliance Facilities
HIST PCS FACILITY	Historical Permit Compliance Facilities
HIST SSTS	Historical Section 7 Tracking Systems
HOSPITALS	HOSPITALS
HWC DOCKET	Hazardous Waste Compliance Docket
ICIS	Integrated Compliance Information System
INACTIVE PCS	Inactive Permit Compliance Facilities
INDIAN RESERVATION	American Indian Lands
LUCIS	Land Use Control Information Systems
LUCIS 2	Land Use Control Information Systems 2
MANIFEST EPA	EPA Hazardous Waste Manifests
MINE OPERATIONS	Mines list from USGS
MINES	Mines
MINES USGS	Mines list from USGS
MLTS	Material Licensing Tracking Systems
NPL AOC	Areas related to NPL remediation sites
NPL LIENS	National Priority List Liens
NURSING HOMES	NURSING HOMES
OSHA	Occupational Safety & Health Administration
PADS	PCB Activity Database Systems
PCB TRANSFORMER	Polychlorinated Biphenyl (PCB) Waste
PCS ENF	Enforced Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
PFAS NPL	PFAS NPL Sites
PFAS TRIS	PFAS TRIS Sites
PFAS UCMR3	PFAS UCMR Samples
PRISONS	PRISONS
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCHOOLS PRIVATE	SCHOOLS PRIVATE
SCHOOLS PUBLIC	SCHOOLS PUBLIC
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems

OTHER ASCERTAINABLE RECORDS (cont.)

UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion
AIRS - KY	Air Permits
COAL MINES - KY	Coal Mine Locations
DAYCARE - KY	Daycare Facilities
DRYCLEANERS - KY	Drycleaners
FA 2 - KY	Financial Assurance for Solid Waste Facilities
FA 3 - KY	Financial Assurance for Hazardous Waste Facilities
HIST AIRS - KY	Historical Air Permits
HIST DRYCLEANERS - KY	Historical Drycleaners
LEAD - KY	LEAD Report Tracking Database
NPDES - KY	State Wastewater and NPDES Permits
PFAS - KY	PFAS Site Listing
RANKING LIST - KY	SB193 Branch Site Inventory/FA 1 is now the Ranking List
SECONDARY SITES - KY	List of secondary categorized sites

SUBJECT NAME: Sebree II (Additional Parcels)
 ADDRESS: Henderson County, KY
 LAT/LONG: 37.663848 / -87.590765

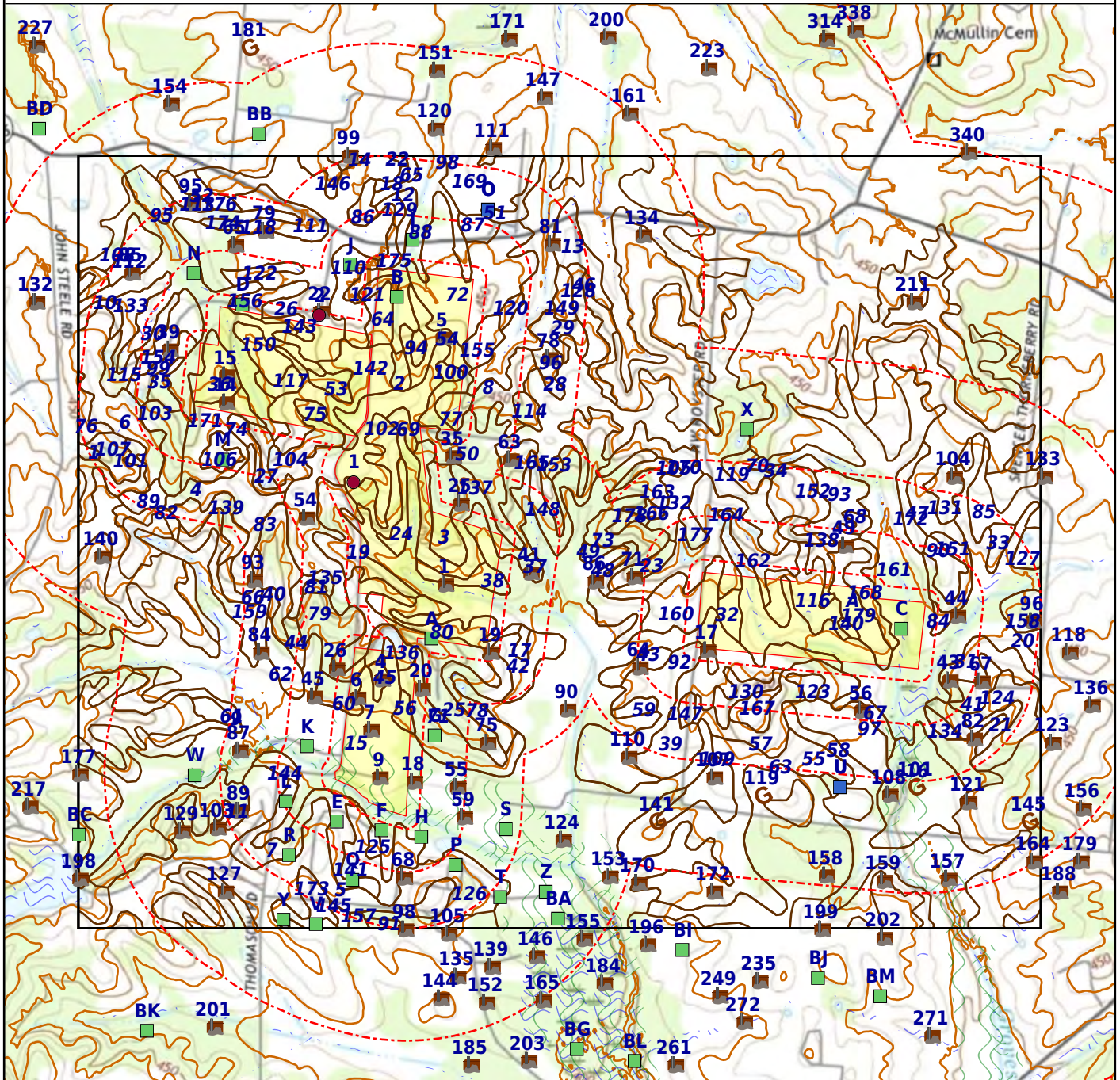
PREPARED FOR: Environmental Consulting & Technology...
 ORDER #: 83842
 REPORT DATE: February 21, 2023



- + Subject Property
- Equal/Higher Elevation
- Lower Elevation
- + CDC HAZDAT (No Data)
- Department of Defense (No Data)
- DFIRM Floodzone 100
- DFIRM Floodzone 500 (No Data)
- Federal Lands (No Data)
- FEMA FloodZone 100
- FEMA FloodZone 500 (No Data)
- Historical DOD (No Data)
- Indian Reservation (No Data)
- National Priority List (No Data)
- NWI

SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology...
ORDER #: 83842
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- + Subject Property
- Department of Defense (No Data)
- FEMA FloodZone 100
- National Priority List (No Data)
- Equal/Higher Elevation
- DFIRM FloodZone 100
- FEMA FloodZone 500 (No Data)
- NWI
- Lower Elevation
- DFIRM FloodZone 500 (No Data)
- Historical DOD (No Data)
- CDC HAZDAT (No Data)
- Federal Lands (No Data)
- Indian Reservation (No Data)

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSD		0.500	0	0	0	--	--	0
RCRA_TSD		0.500	0	0	0	--	--	0

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS		0.250	0	0	--	--	--	0
EPA UST		0.250	0	0	--	--	--	0
FEMA UST		0.250	0	0	--	--	--	0
HIST INDIAN UST R6		0.250	0	0	--	--	--	0
HIST INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
UST - KY		0.250	0	0	--	--	--	0

FEDERAL CERCLIS LIST

CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
EPA SAA		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS		1.000	0	0	0	0	--	0
HIST CORRACTS 2		1.000	0	0	0	0	--	0

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL		1.000	0	0	0	0	--	0
DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP		0.500	0	0	0	--	--	0
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<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST		0.500	0	0	0	--	--	0
HIST INDIAN LUST R4		0.500	0	0	0	--	--	0
HIST INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
LUST - KY		0.500	0	0	0	--	--	0

FEDERAL ERNS LIST

ERNS		SP	0	--	--	--	--	0
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FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	0	0	--	--	--	0
RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_VSQG		0.250	0	0	--	--	--	0

FEDERAL NPL SITE LIST

NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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FEDERAL NPL SITE LIST (cont.)

NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS - KY		0.500	0	0	0	--	--	0
HIST BROWNFIELDS - KY		0.500	0	0	0	--	--	0

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

E C - KY		0.500	0	0	0	--	--	0
I C - KY		0.500	0	0	0	--	--	0

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST LF - KY		0.500	0	0	0	--	--	0
SWF/LF - KY		0.500	0	0	0	--	--	0

STATE RCRA GENERATORS LIST

HWF - KY		0.250	0	0	--	--	--	0
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STATE- AND TRIBAL - EQUIVALENT CERCLIS

SHWS - KY		1.000	0	0	0	0	--	0
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STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - KY		0.500	0	0	0	--	--	0
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LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0
CDL - KY		SP	0	--	--	--	--	0
CDL LOUISVILLE - KY		SP	0	--	--	--	--	0

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
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LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES (cont.)

ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
SWRCY - KY		0.500	0	0	0	--	--	0

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT)		SP	0	--	--	--	--	0
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LOCAL LAND RECORDS

LIENS 2		SP	0	--	--	--	--	0
---------	--	----	---	----	----	----	----	---

OTHER ASCERTAINABLE RECORDS

AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
ARENAS		SP	0	--	--	--	--	0
ARENAS 2		SP	0	--	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
CHURCHES		SP	0	--	--	--	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0
COLLEGES		SP	0	--	--	--	--	0
COLLEGES 2		SP	0	--	--	--	--	0
CONSENT (DECREEES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
DAYCARE		SP	0	--	--	--	--	0
DEBRIS EPA LF		0.500	0	0	0	--	--	0
DEBRIS EPA SWRCY		0.500	0	0	0	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO		SP	0	--	--	--	--	0
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS		SP	0	--	--	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
GOV MANSIONS		SP	0	--	--	--	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
HOSPITALS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0
INACTIVE PCS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MANIFEST EPA		0.250	0	0	--	--	--	0
MINE OPERATIONS		0.250	0	0	--	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
NURSING HOMES		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
PFAS NPL		0.500	0	0	0	--	--	0
PFAS TRIS		0.500	0	0	0	--	--	0
PFAS UCMR3		0.500	0	0	0	--	--	0

<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u><1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>>1</u>	<u>TOTAL MAPPED</u>
OTHER ASCERTAINABLE RECORDS (cont.)								
PRISONS		SP	0	--	--	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.250	0	0	--	--	--	0
ROD		1.000	0	0	0	0	--	0
SCHOOLS PRIVATE		SP	0	--	--	--	--	0
SCHOOLS PUBLIC		SP	0	--	--	--	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
AIRS - KY		SP	0	--	--	--	--	0
COAL MINES - KY		0.250	0	0	--	--	--	0
DAYCARE - KY		SP	0	--	--	--	--	0
DRYCLEANERS - KY		0.250	0	0	--	--	--	0
FA 2 - KY		SP	0	--	--	--	--	0
FA 3 - KY		SP	0	--	--	--	--	0
HIST AIRS - KY		SP	0	--	--	--	--	0
HIST DRYCLEANERS - KY		0.250	0	0	--	--	--	0
LEAD - KY		SP	0	--	--	--	--	0
NPDES - KY		SP	0	--	--	--	--	0
PFAS - KY		0.500	0	0	0	--	--	0
RANKING LIST - KY		SP	0	--	--	--	--	0
SECONDARY SITES - KY		0.500	0	0	0	--	--	0
UIC - KY	X	SP	--	--	--	--	--	1

Map Id: 1
Direction:
Distance:
Elevation:
Relative:

Site Name : COUNTRYMARK ENERGY RESOURCES, LLC
37.665796, -87.598897
KY
Database(s) : [UIC - KY]

Envirosite ID: 42248251
EPA ID: KYS1010139

UIC - KY

Site Details

EPA ID : KYS1010139
API : N/R
Well Name : S. T. DENTON
Well Number : 1
Well Class : 2
Classification Type : Enhanced Recovery Injection
Well Type Activity : R, Active
Status Description : Active
UIC Permit : N/R
Activity Formation Age : Active, Mississippian
Formation Age : Mississippian
Comment : N/R
Total Depth : 1815
Surface Elevation : N/R
Top : 1849
Bottom : 1852
Inject Zone Name : TAR SPRINGS SS
Completion Date : N/R
Plug Date : N/R
Plug Affidavit : N/R
USGS Quad : ROBARDS
Well Latitude : 37.665789
Well Longitude : -87.598892
Datum : 3
KGS Permit : N/R
Bore Type : N/R
Org Farm : N/R
Org Operator : N/R
Org Well Number : N/R
Total Depth 1 : N/R
TDFM : N/R
Deepst Pay : N/R
IOF IP : N/R
Org Class : N/R
Org Result : N/R
Core : N/R
Well hyperlink : N/R
Last Date in Agency List : 2022-11-22

Map Id: 2
Direction: NW
Distance: 0.024 mi., 128 ft.
Elevation: 452 ft.
Relative: Higher

Site Name : HYDROCARBON INVESTMENTS, INC.
37.671205, -87.600264
KY
Database(s) : [UIC - KY]

Envirosite ID: 42248114
EPA ID: KYS1010376

UIC - KY

Site Details

EPA ID : KYS1010376
API : 16101003870000

Map Id: 2
Direction: NW
Distance: 0.024 mi., 128 ft.
Elevation: 452 ft.
Relative: Higher

Site Name : HYDROCARBON INVESTMENTS, INC.
37.671205, -87.600264
KY
Database(s) : [UIC - KY] (**cont.**)

EnviroSite ID: 42248114
EPA ID: KYS1010376

UIC - KY (**cont.**)

Well Name :	TOM DENTON
Well Number :	2
Well Class :	2
Classification Type :	Enhanced Recovery Injection
Well Type Activity :	R, Inactive
Status Description :	Shut In - no injection < 2 years, active lease
UIC Permit :	N/R
Activity Formation Age :	Inactive, Mississippian
Formation Age :	Mississippian
Comment :	N/R
Total Depth :	2391
Surface Elevation :	455
Top :	1930
Bottom :	1940
Inject Zone Name :	TAR SPRINGS SS
Completion Date :	1943-02-10
Plug Date :	N/R
Plug Affidavit :	N/R
USGS Quad :	ROBARDS
Well Latitude :	37.671255
Well Longitude :	-87.600178
Datum :	3
KGS Permit :	N1241
Bore Type :	V
Org Farm :	DENTON, S T
Org Operator :	CARTER OIL CO
Org Well Number :	2
Total Depth 1 :	2385
TDFM :	332BTHL
Deepst Pay :	332BTHL
IOF IP :	65 BOPD
Org Class :	DEV
Org Result :	OIL
Core :	N/R
Well hyperlink :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2022-11-22

<u>ENVIROSITE ID</u>	<u>NAME</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>ZIP</u>	<u>DATABASE(S)</u>
<u>19209347</u>	GIBBS DIE CASTING ALUMINU...	COMMUNITY DRIVE	HENDERSON	42420	HIST CORRACTS 2
<u>48100620</u>	HENDERSON MUNICIPAL GAS	222 FIRST ST.- CITY BUILD...	HENDERSON	42420	PIPELINES
<u>48225247</u>	HENDERSON MUNICIPAL GAS	222 FIRST ST.- CITY BUILD...	HENDERSON	42420	PIPELINES
<u>44370953</u>	US 41 S WEIGH STATION - H...	US 41 S	Henderson HENDERSON	42420	EPA UST, SHWS - KY, U...
<u>18469564</u>	WEBSTER COAL CO - RITIKI ...	NONE	NONE		VCP - KY

FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST

ARCHIVED RCRA TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

RCRA_TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS

AST PBS: Bulk petroleum terminals with a total bulk storage capacity of 50,000 barrels or more.

Agency Version Date: 11/07/2022	Agency: Department of Homeland Security
Agency Update Frequency: Quarterly	Agency Contact: 202-853-5361
Planned Next Contact: 05/01/2023	Most Recent Contact: 02/02/2023

EPA UST: Facilities listed in the EPA UST Finder database

Agency Version Date: 01/17/2023	Agency: EPA
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 09/16/2022	Agency: FEMA
Agency Update Frequency: Varies	Agency Contact: 202-212-5283
Planned Next Contact: 03/09/2023	Most Recent Contact: 12/13/2022

HIST INDIAN UST R6: Historical Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 12/03/2021	Agency: U.S. Environmental Protection Agency Region 6
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 05/09/2023	Most Recent Contact: 02/10/2023

HIST INDIAN UST R7: Historical Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 08/10/2021	Agency: U.S. Environmental Protection Agency Region 7
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/26/2023	Most Recent Contact: 01/30/2023

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 01/05/2023	Agency: U.S. Environmental Protection Agency Region 1
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/03/2023	Most Recent Contact: 01/05/2023

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 10
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016	Agency: U.S. Environmental Protection Agency Region 2
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/04/2023	Most Recent Contact: 01/06/2023

INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 4
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 5
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 11/18/2022	Agency: U.S. Environmental Protection Agency Region 6
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 05/11/2023	Most Recent Contact: 02/13/2023

INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 7
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 01/02/2023	Agency: U.S. Environmental Protection Agency Region 8
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 03/30/2023	Most Recent Contact: 01/02/2023

INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 01/02/2023	Agency: U.S. Environmental Protection Agency Region 9
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 03/30/2023	Most Recent Contact: 01/02/2023

UST - KY: Underground storage tank listing

Agency Version Date: 10/20/2022	Agency: Kentucky Department of Environmental Protection
Agency Update Frequency: Quarterly	Agency Contact: 502-564-5981
Planned Next Contact: 04/13/2023	Most Recent Contact: 01/16/2023

FEDERAL CERCLIS LIST

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 800-424-9346
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

FEDERAL CERCLIS LIST (cont.)

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 01/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 01/13/2023

EPA SAA: Listing of Sites with Superfund Alternative Approach Agreements.

Agency Version Date: 11/01/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 04/13/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 800-424-9346
Most Recent Contact: 01/17/2023

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 01/13/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8712
Most Recent Contact: 01/13/2023

SEMS_8R_ACTIVE SITES: The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 01/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/13/2023

SEMS_8R_ARCHIVED SITES: The Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Agency Version Date: 01/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/13/2023

FEDERAL RCRA CORRACTS FACILITIES LIST

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 12/15/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 03/13/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 12/15/2022

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018
Agency Update Frequency: Annually
Planned Next Contact: 05/05/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 202-566-1667
Most Recent Contact: 02/08/2023

FEDERAL DELISTED NPL SITE LIST

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 01/13/2023
Agency Update Frequency: Quarterly
Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency
Agency Contact: 703-603-8867
Most Recent Contact: 01/13/2023

FEDERAL DELISTED NPL SITE LIST (cont.)

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

SEMS_DELETED NPL: All Deleted National Priority List Sites

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 12/13/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 03/10/2023	Most Recent Contact: 12/13/2022

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS

EPA LUST: Releases listed in the EPA UST Finder database

Agency Version Date: 01/17/2023	Agency: EPA
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

HIST INDIAN LUST R4: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 08/23/2021	Agency: U.S. Environmental Protection Agency Region 4
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/26/2023	Most Recent Contact: 01/30/2023

HIST INDIAN LUST R8: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 08/16/2021	Agency: U.S. Environmental Protection Agency Region 8
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 01/05/2023	Agency: U.S. Environmental Protection Agency Region 1
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/03/2023	Most Recent Contact: 01/05/2023

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 10
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016	Agency: U.S. Environmental Protection Agency Region 2
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/04/2023	Most Recent Contact: 01/06/2023

FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 01/30/2023	Agency: U.S. Environmental Protection Agency Region 4
Agency Update Frequency: Semi Annually	Agency Contact: 855-246-3642
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/30/2023

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 5
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 01/19/2023	Agency: U.S. Environmental Protection Agency Region 6
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/17/2023	Most Recent Contact: 01/19/2023

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 01/17/2023	Agency: U.S. Environmental Protection Agency Region 7
Agency Update Frequency: Varies	Agency Contact: 855-246-3642
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 01/20/2023	Agency: U.S. Environmental Protection Agency Region 8
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 01/02/2023	Agency: U.S. Environmental Protection Agency Region 9
Agency Update Frequency: Quarterly	Agency Contact: 855-246-3642
Planned Next Contact: 03/30/2023	Most Recent Contact: 01/02/2023

LUST - KY: Leaking Underground Storage Tank Listing

Agency Version Date: 01/17/2023	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/17/2023

FEDERAL ERNS LIST

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 01/09/2023	Agency: National Response Center United States Coast Guard
Agency Update Frequency: Annually	Agency Contact: N/R
Planned Next Contact: 04/06/2023	Most Recent Contact: 01/09/2023

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

FED E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 02/06/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 800-424-9346
Planned Next Contact: 05/04/2023	Most Recent Contact: 02/06/2023

FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES (cont.)

FED I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 02/06/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 800-424-9346
Planned Next Contact: 05/04/2023	Most Recent Contact: 02/06/2023

RCRA IC_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 01/20/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 215-814-2469
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

FEDERAL RCRA GENERATORS LIST

HIST RCRA_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

HIST RCRA_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

HIST RCRA_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

HIST RCRA_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: 215-814-2469
Planned Next Contact: 05/05/2023	Most Recent Contact: 02/08/2023

RCRA_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

RCRA_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 215-814-2469
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

RCRA_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 215-814-2469
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

FEDERAL RCRA GENERATORS LIST (cont.)

RCRA_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 12/15/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 215-814-2469
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

FEDERAL NPL SITE LIST

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-2132
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

FEDERAL NPL SITE LIST (cont.)

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

SEMS_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

SEMS_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

STATE AND TRIBAL BROWNFIELD SITES

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2017	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: No Longer Maintained	Agency Contact: 855-246-3642
Planned Next Contact: 02/28/2023	Most Recent Contact: 12/02/2022

BROWNFIELDS - KY: Potential Brownfields Inventory Listing

Agency Version Date: 10/31/2022	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

HIST BROWNFIELDS - KY: List of potential Brownfields Inventory that are no longer in current agency list.

Agency Version Date: 03/20/2018	Agency: Department of Environmental Protection
Agency Update Frequency: No Longer Maintained	Agency Contact: (502) 564-6716
Planned Next Contact: 04/28/2023	Most Recent Contact: 02/01/2023

STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

E C - KY: Sites with Engineering Controls

Agency Version Date: 11/07/2022	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 05/01/2023	Most Recent Contact: 02/03/2023

I C - KY: Superfund sites with a Contained or Managed status

Agency Version Date: 02/03/2023	Agency: Department of Environmental Protection
Agency Update Frequency: Varies	Agency Contact: (502) 564-6716
Planned Next Contact: 05/01/2023	Most Recent Contact: 02/03/2023

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

HIST LF - KY: Historical Landfills

Agency Version Date: 08/20/2019	Agency: Department of Environmental Protection
Agency Update Frequency: No Longer Maintained	Agency Contact: (502) 564-6716
Planned Next Contact: 02/28/2023	Most Recent Contact: 12/02/2022

STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS (cont.)

SWF/LF - KY: Solid waste facility and landfill listing

Agency Version Date: 01/09/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/06/2023

Agency: Kentucky Department of Environmental Protection
 Agency Contact: 502-564-4049
 Most Recent Contact: 01/09/2023

STATE RCRA GENERATORS LIST

HWF - KY: Listing of facilities with hazardous waste permits

Agency Version Date: 01/06/2023
 Agency Update Frequency: Quarterly
 Planned Next Contact: 04/04/2023

Agency: Kentucky Department of Environmental Protection
 Agency Contact: 502-564-6716
 Most Recent Contact: 01/06/2023

STATE- AND TRIBAL - EQUIVALENT CERCLIS

SHWS - KY: State Leads list: Superfund KORA sites

Agency Version Date: 01/06/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/04/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 01/06/2023

STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VCP - KY: Sites involved in the Voluntary Cleanup Program

Agency Version Date: 05/23/2022
 Agency Update Frequency: Semi Annually
 Planned Next Contact: 05/11/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 02/15/2023

LOCAL BROWNFIELD LISTS

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 11/28/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 02/23/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 11/28/2022

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 10/13/2022
 Agency Update Frequency: Semi Annually
 Planned Next Contact: 04/06/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 01/09/2023

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 12/29/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/27/2023

Agency: U.S. Department of Justice
 Agency Contact: 202-307-7610
 Most Recent Contact: 12/29/2022

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 08/05/2019
 Agency Update Frequency: Quarterly
 Planned Next Contact: 04/28/2023

Agency: U.S. Department of Justice
 Agency Contact: 202-307-7610
 Most Recent Contact: 02/01/2023

LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES (cont.)

CDL - KY: Methamphetamine Contaminated Properties

Agency Version Date: 12/05/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 03/01/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 12/05/2022

CDL LOUISVILLE - KY: Listing of clandestine drug lab locations

Agency Version Date: 10/02/2018
 Agency Update Frequency: Varies
 Planned Next Contact: 03/30/2023

Agency: Kentucky Department of Environmental Protection
 Agency Contact: 502-574-7111
 Most Recent Contact: 01/02/2023

LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018
 Agency Update Frequency: Annually
 Planned Next Contact: 03/21/2023

Agency: Indian Health Service
 Agency Contact: 855-246-3642
 Most Recent Contact: 12/23/2022

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 07/21/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 04/10/2023

Agency: Indian Health Service
 Agency Contact: 855-246-3642
 Most Recent Contact: 01/12/2023

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017
 Agency Update Frequency: No Update
 Planned Next Contact: 04/25/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 01/27/2023

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 11/11/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 05/05/2023

Agency: Indian Health Service
 Agency Contact: 301-443-3593
 Most Recent Contact: 02/07/2023

SWRCY - KY: Recycling Facilities

Agency Version Date: 07/19/2021
 Agency Update Frequency: Varies
 Planned Next Contact: 03/21/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 12/23/2022

RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 12/06/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 03/03/2023

Agency: U.S. Department of Transportation
 Agency Contact: (202) 366-4996
 Most Recent Contact: 12/06/2022

LOCAL LAND RECORDS

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017
 Agency Update Frequency: No Longer Maintained
 Planned Next Contact: 03/02/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 800-424-9346
 Most Recent Contact: 12/05/2022

OTHER ASCERTAINABLE RECORDS

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 01/16/2023
 Agency Update Frequency: Quarterly
 Planned Next Contact: 04/13/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 01/16/2023

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 12/13/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/10/2023

Agency: U.S. Department of Energy
 Agency Contact: N/R
 Most Recent Contact: 12/13/2022

ARENAS: List of Arenas and Sport Venues

Agency Version Date: 01/31/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/28/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/31/2023

ARENAS 2: List of Convention Centers and Fairgrounds

Agency Version Date: 11/04/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 04/27/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/31/2023

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 12/15/2022
 Agency Update Frequency: Biennial
 Planned Next Contact: 03/13/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 12/15/2022

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 01/13/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/11/2023

Agency: Agency for Toxic Substances and Disease Registry
 Agency Contact: 770-488-6399
 Most Recent Contact: 01/13/2023

CHURCHES: List of places of worship

Agency Version Date: 11/07/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 05/01/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 02/02/2023

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 12/01/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 02/27/2023

Agency: Department of Energy
 Agency Contact: (202) 586-8800
 Most Recent Contact: 12/01/2022

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 02/18/2021
 Agency Update Frequency: Varies
 Planned Next Contact: 04/17/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 01/19/2023

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 12/23/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/17/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 12/21/2022

OTHER ASCERTAINABLE RECORDS (cont.)

COLLEGES: List of major Universities & Colleges

Agency Version Date: 01/05/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/03/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/05/2023

COLLEGES 2: List of Universities & Colleges

Agency Version Date: 01/06/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/06/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/06/2023

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 01/13/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/11/2023

Agency: Environmental Protection Agency
 Agency Contact: (800) 424-9346
 Most Recent Contact: 01/13/2023

CORRECTIVE ACTIONS_2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/21/2018
 Agency Update Frequency: No Longer Maintained
 Planned Next Contact: 04/04/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: N/R
 Most Recent Contact: 01/06/2023

DAYCARE: List of Daycare facilities

Agency Version Date: 01/03/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 03/31/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/03/2023

DEBRIS EPA LF: EPA list of designated landfill facilities for the safe disposal of disaster debris.

Agency Version Date: 12/29/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/27/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 12/29/2022

DEBRIS EPA SWRCY: EPA list of facilities for the safe recovery, recycling, and disposal of disaster debris.

Agency Version Date: 12/29/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/27/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 12/30/2022

DOD: Department of Defense sites from the Protected Areas Database (PAD-US)

Agency Version Date: 01/13/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/11/2023

Agency: United States Geologic Survey (USGS)
 Agency Contact: 1-888-275-8747
 Most Recent Contact: 01/13/2023

DOT OPS: Incident Data Report

Agency Version Date: 01/30/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/27/2023

Agency: U.S. Department of Transportation
 Agency Contact: (202) 366-4996
 Most Recent Contact: 01/30/2023

OTHER ASCERTAINABLE RECORDS (cont.)

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 12/09/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 202-566-1667
Planned Next Contact: 03/07/2023	Most Recent Contact: 12/09/2022

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 03/19/2021	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 05/18/2023	Most Recent Contact: 02/20/2023

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 01/19/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 564-2307
Planned Next Contact: 04/17/2023	Most Recent Contact: 01/19/2023

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 12/02/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 564-2307
Planned Next Contact: 02/28/2023	Most Recent Contact: 12/02/2022

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: No Longer Maintained	Agency Contact: (202) 564-2307
Planned Next Contact: 03/01/2023	Most Recent Contact: 12/05/2022

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 12/22/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (800) 424-9346
Planned Next Contact: 03/20/2023	Most Recent Contact: 12/22/2022

FEDLAND: Federal Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/13/2023	Agency: United States Geologic Survey (USGS)
Agency Update Frequency: Varies	Agency Contact: 1-888-275-8747
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

FRS: Facility Registry Systems

Agency Version Date: 10/28/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 04/20/2023	Most Recent Contact: 01/24/2023

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/06/2013	Agency: Environmental Protection Agency
Agency Update Frequency: No Longer Maintained	Agency Contact: (202) 564-2280
Planned Next Contact: 03/15/2023	Most Recent Contact: 12/19/2022

OTHER ASCERTAINABLE RECORDS (cont.)

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017
 Agency Update Frequency: No Longer Maintained
 Planned Next Contact: 03/08/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 564-2280
 Most Recent Contact: 12/12/2022

FUDS: Defense sites that require cleanup

Agency Version Date: 01/24/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/21/2023

Agency: US Army Corps of Engineering
 Agency Contact: (202) 761-0011
 Most Recent Contact: 01/24/2023

GOV MANSIONS: List of Governors Mansions

Agency Version Date: 01/31/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/27/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/31/2023

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/19/2019
 Agency Update Frequency: Quarterly
 Planned Next Contact: 02/28/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 12/02/2022

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/30/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 01/02/2023

HIST DOD: Department of Defense historical sites

Agency Version Date: 01/13/2023
 Agency Update Frequency: No Longer Maintained
 Planned Next Contact: 04/11/2023

Agency: Environmental Protection Agency
 Agency Contact: (800) 424-9346
 Most Recent Contact: 01/13/2023

HIST LEAD_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018
 Agency Update Frequency: Annually
 Planned Next Contact: 03/15/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 12/19/2022

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016
 Agency Update Frequency: Annually
 Planned Next Contact: 03/24/2023

Agency: Nuclear Regulatory Commission
 Agency Contact: (800) 397-4209
 Most Recent Contact: 12/28/2022

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018
 Agency Update Frequency: No Update
 Planned Next Contact: 04/14/2023

Agency: Environmental Protection Agency
 Agency Contact: (703) 308-8404
 Most Recent Contact: 01/18/2023

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018
 Agency Update Frequency: Annually
 Planned Next Contact: 04/27/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 564-6582
 Most Recent Contact: 01/31/2023

OTHER ASCERTAINABLE RECORDS (cont.)

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018	Agency: Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: (202) 564-6582
Planned Next Contact: 04/27/2023	Most Recent Contact: 01/31/2023

HIST SSTS: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/13/2019	Agency: Environmental Protection Agency
Agency Update Frequency: Annually	Agency Contact: (202) 566-1667
Planned Next Contact: 04/17/2023	Most Recent Contact: 01/19/2023

HOSPITALS: List of major Hospitals

Agency Version Date: 01/05/2023	Agency: DHS Homeland Infrastructure Foundation
Agency Update Frequency: Varies	Agency Contact: N/R
Planned Next Contact: 04/03/2023	Most Recent Contact: 01/05/2023

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 10/25/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 564-2307
Planned Next Contact: 04/18/2023	Most Recent Contact: 01/20/2023

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 03/10/2023	Most Recent Contact: 12/13/2022

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 564-6582
Planned Next Contact: 03/10/2023	Most Recent Contact: 12/13/2022

INDIAN RESERVATION: American Indian Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/13/2023	Agency: United States Geologic Survey (USGS)
Agency Update Frequency: Varies	Agency Contact: 1-888-275-8747
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

LUCIS: Land Use Control Information Systems

Agency Version Date: 12/12/2022	Agency: Department of the Navy: BRAC PMO
Agency Update Frequency: Quarterly	Agency Contact: (619) 532-0900
Planned Next Contact: 03/08/2023	Most Recent Contact: 12/12/2022

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018	Agency: Department of the Navy: BRAC PMO
Agency Update Frequency: No Longer Maintained	Agency Contact: (619) 532-0900
Planned Next Contact: 04/14/2023	Most Recent Contact: 01/18/2023

OTHER ASCERTAINABLE RECORDS (cont.)

MANIFEST EPA: EPA Hazardous Waste Electronic Manifest System (e-Manifest)

Agency Version Date: 10/28/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (202) 566-1667
Planned Next Contact: 04/21/2023	Most Recent Contact: 01/24/2023

MINE OPERATIONS: Mine plants and operations for commodities monitored by the National Minerals Information Center of the USGS

Agency Version Date: 01/27/2023	Agency: USGS Mineral Resources Program
Agency Update Frequency: Varies	Agency Contact: (703) 648-5953
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

MINES: Mines Master Index Files

Agency Version Date: 12/15/2022	Agency: Department of Labor
Agency Update Frequency: Varies	Agency Contact: (202) 693-9400
Planned Next Contact: 03/13/2023	Most Recent Contact: 12/15/2022

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 01/27/2023	Agency: USGS Mineral Resources Program
Agency Update Frequency: Varies	Agency Contact: (703) 648-5953
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 07/15/2022	Agency: Nuclear Regulatory Commission
Agency Update Frequency: Varies	Agency Contact: (800) 397-4209
Planned Next Contact: 04/07/2023	Most Recent Contact: 01/11/2023

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 01/13/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: N/R
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 01/13/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: 703-603-8867
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

NURSING HOMES: List of Nursing Homes

Agency Version Date: 01/02/2023	Agency: DHS Homeland Infrastructure Foundation
Agency Update Frequency: Varies	Agency Contact: N/R
Planned Next Contact: 03/31/2023	Most Recent Contact: 01/02/2023

OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 12/12/2022	Agency: Occupational Safety & Health Administration
Agency Update Frequency: Varies	Agency Contact: 800-321-6742
Planned Next Contact: 03/09/2023	Most Recent Contact: 12/12/2022

PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 01/13/2023	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (703) 308-8404
Planned Next Contact: 04/11/2023	Most Recent Contact: 01/13/2023

OTHER ASCERTAINABLE RECORDS (cont.)

PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 11/01/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: (703) 308-8404
Planned Next Contact: 04/25/2023	Most Recent Contact: 01/27/2023

PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 564-6582
Planned Next Contact: 03/10/2023	Most Recent Contact: 12/13/2022

PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 12/13/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 564-6582
Planned Next Contact: 03/10/2023	Most Recent Contact: 12/13/2022

PFAS NPL: List of NPL sites with PFAS or PFOA contamination

Agency Version Date: 01/09/2023	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 04/06/2023	Most Recent Contact: 01/09/2023

PFAS TRIS: List of TRIS sites where PFAS or PFOA are used/manufactured/ treated/ transported/released.

Agency Version Date: 12/13/2022	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 03/10/2023	Most Recent Contact: 12/13/2022

PFAS UCMR3: List of PWS wells sampled for Unregulated Contaminant Monitoring Rule (UCMR)

Agency Version Date: 06/02/2021	Agency: U.S. Environmental Protection Agency
Agency Update Frequency: Quarterly	Agency Contact: 703-603-8867
Planned Next Contact: 05/18/2023	Most Recent Contact: 02/20/2023

PRISONS: List of Prison facilities

Agency Version Date: 11/29/2022	Agency: DHS Homeland Infrastructure Foundation
Agency Update Frequency: Varies	Agency Contact: N/R
Planned Next Contact: 02/24/2023	Most Recent Contact: 11/29/2022

RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 09/23/2019	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 03/31/2023	Most Recent Contact: 01/04/2023

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019	Agency: Environmental Protection Agency
Agency Update Frequency: Varies	Agency Contact: (202) 566-1667
Planned Next Contact: 03/20/2023	Most Recent Contact: 12/22/2022

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 04/01/2022	Agency: Environmental Protection Agency
Agency Update Frequency: Monthly	Agency Contact: (202) 564-2534
Planned Next Contact: 03/17/2023	Most Recent Contact: 12/21/2022

OTHER ASCERTAINABLE RECORDS (cont.)

ROD: Permanent remedy at an NPL site

Agency Version Date: 01/13/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/11/2023

Agency: Environmental Protection Agency
 Agency Contact: (800) 424-9346
 Most Recent Contact: 01/13/2023

SCHOOLS PRIVATE: List of Private Schools

Agency Version Date: 01/05/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/03/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/05/2023

SCHOOLS PUBLIC: List of Public Schools

Agency Version Date: 01/05/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/03/2023

Agency: DHS Homeland Infrastructure Foundation
 Agency Contact: N/R
 Most Recent Contact: 01/05/2023

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 11/18/2022
 Agency Update Frequency: No Update
 Planned Next Contact: 05/11/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 02/14/2023

SEMS_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 01/13/2023
 Agency Update Frequency: Quarterly
 Planned Next Contact: 04/11/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 703-603-8867
 Most Recent Contact: 01/13/2023

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 11/24/2022
 Agency Update Frequency: Annually
 Planned Next Contact: 05/18/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 02/20/2023

STORMWATER: Permitted storm water sites

Agency Version Date: 12/06/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 03/03/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 12/06/2022

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 09/05/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 02/27/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 12/01/2022

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 12/13/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 03/10/2023

Agency: Environmental Protection Agency
 Agency Contact: (202) 566-1667
 Most Recent Contact: 12/13/2022

OTHER ASCERTAINABLE RECORDS (cont.)

UMTRA: Uranium Recovery Sites

Agency Version Date: 06/21/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 03/10/2023

Agency: United States Nuclear Regulatory Commission
 Agency Contact: (301) 415-8200
 Most Recent Contact: 12/13/2022

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 03/19/2021
 Agency Update Frequency: Varies
 Planned Next Contact: 02/21/2023

Agency: U.S. Environmental Protection Agency
 Agency Contact: 855-246-3642
 Most Recent Contact: 11/25/2022

AIRS - KY: Listing of facilities with air permits

Agency Version Date: 10/21/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 04/14/2023

Agency: Kentucky Department of Environmental Protection
 Agency Contact: 502-564-3999
 Most Recent Contact: 01/17/2023

COAL MINES - KY: MMIS Coal Mine Data and Locations

Agency Version Date: 11/21/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 05/18/2023

Agency: Kentucky Mine Mapping Information System
 Agency Contact: N/R
 Most Recent Contact: 02/17/2023

DAYCARE - KY: Child Care Facilities

Agency Version Date: 01/12/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/10/2023

Agency: Cabinet for Health and Family Services
 Agency Contact: (502) 564-2524
 Most Recent Contact: 01/12/2023

DRYCLEANERS - KY: Drycleaner listings

Agency Version Date: 12/06/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/02/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 12/06/2022

FA 2 - KY: Solid Waste Facilities eligible for Financial Assurance

Agency Version Date: 11/07/2022
 Agency Update Frequency: Varies
 Planned Next Contact: 05/01/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 02/03/2023

FA 3 - KY: Hazardous Waste Facilities eligible for Financial Assurance

Agency Version Date: 01/10/2023
 Agency Update Frequency: Varies
 Planned Next Contact: 04/06/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 01/10/2023

HIST AIRS - KY: Historical listing of facilities with air permits

Agency Version Date: 12/16/2022
 Agency Update Frequency: Quarterly
 Planned Next Contact: 03/14/2023

Agency: Kentucky Department of Environmental Protection
 Agency Contact: 502-564-3999
 Most Recent Contact: 12/16/2022

HIST DRYCLEANERS - KY: List of drycleaning facilities that are no longer in current agency list.

Agency Version Date: 12/17/2018
 Agency Update Frequency: Annually
 Planned Next Contact: 02/28/2023

Agency: Department of Environmental Protection
 Agency Contact: (502) 564-6716
 Most Recent Contact: 12/02/2022

OTHER ASCERTAINABLE RECORDS (cont.)

LEAD - KY: Lead Program Report

Agency Version Date: 06/18/2021
Agency Update Frequency: Varies
Planned Next Contact: 02/27/2023

Agency: Kentucky Environmental Lead Program
Agency Contact: (502) 564-4537
Most Recent Contact: 11/29/2022

NPDES - KY: Listing of facilities with wastewater and NPDES permits

Agency Version Date: 12/23/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/08/2023

Agency: Department of Environmental Protection
Agency Contact: 502-564-3410
Most Recent Contact: 02/09/2023

PFAS - KY: List of PFAS sites and areas of interest

Agency Version Date: 09/10/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 03/03/2023

Agency: Energy and Environment Cabinet
Agency Contact: N/R
Most Recent Contact: 12/07/2022

RANKING LIST - KY: UST sites eligible for reimbursement from the Financial Responsibility Account & Petroleum Storage Tank Account

Agency Version Date: 01/09/2023
Agency Update Frequency: Monthly
Planned Next Contact: 04/06/2023

Agency: Department of Environmental Protection
Agency Contact: (502) 564-5981
Most Recent Contact: 01/09/2023

SECONDARY SITES - KY: The sites are categorized as secondary sites by the Kentucky Cabinet for Economic Development

Agency Version Date: 01/10/2023
Agency Update Frequency: Varies
Planned Next Contact: 04/06/2023

Agency: Kentucky Cabinet for Economic Development
Agency Contact: 502-564-0323
Most Recent Contact: 01/10/2023

UIC - KY: Underground injection control listing

Agency Version Date: 11/21/2022
Agency Update Frequency: Quarterly
Planned Next Contact: 05/16/2023

Agency: Kentucky Geological Survey
Agency Contact: N/R
Most Recent Contact: 02/17/2023

SUBJECT PROPERTY ADDRESS:

Sebree II (Additional Parcels)

Henderson County, KY

SUBJECT PROPERTY COORDINATES:

Latitude(North):	37.663848 - 37°39'49.9"
Longitude(West):	-87.590765 - -87°35'26.8"
Universal Transverse Mercator:	Zone 16N
UTM X (Meters):	447896.31
UTM Y (Meters):	4168683.46
State Plane Coordinates:	1602 - Kentucky South (US Survey Feet)
X Coordinate (Feet):	1107616.947 E
Y Coordinate (Feet):	2130039.177 N

ELEVATION:

Elevation: 433 ft. above sea level

USGS TOPOGRAPHIC MAP:

Subject Property Map: 37087-F5 Robards, KY
 Most Recent Revision: 2019

GEOHYDROLOGY DATA:

SUBJECT PROPERTY TOPOGRAPHY:

Topographic Gradient: East

DFIRM FLOOD ZONE:

	DFIRM Flood
Subject Property County:	Electronic Data:
HENDERSON	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	21101C0365E (Eff. date 2/20/2013) 21233C0040C (Eff. date 12/17/2013)
Additional Panels in search area:	21101C0370E (Eff. date 2/20/2013) 21233C0045C (Eff. date 12/17/2013)

FEMA FLOOD ZONE:

	FEMA Flood
Subject Property County:	Electronic Data:
HENDERSON	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	2102860175B
Additional Panels in search area:	No available data

NATIONAL WETLAND INVENTORY:

	NWI Electronic
<u>NWI Quad at Subject Property:</u>	<u>Data Coverage:</u>
Robards	Yes - refer to the Geological Findings Map

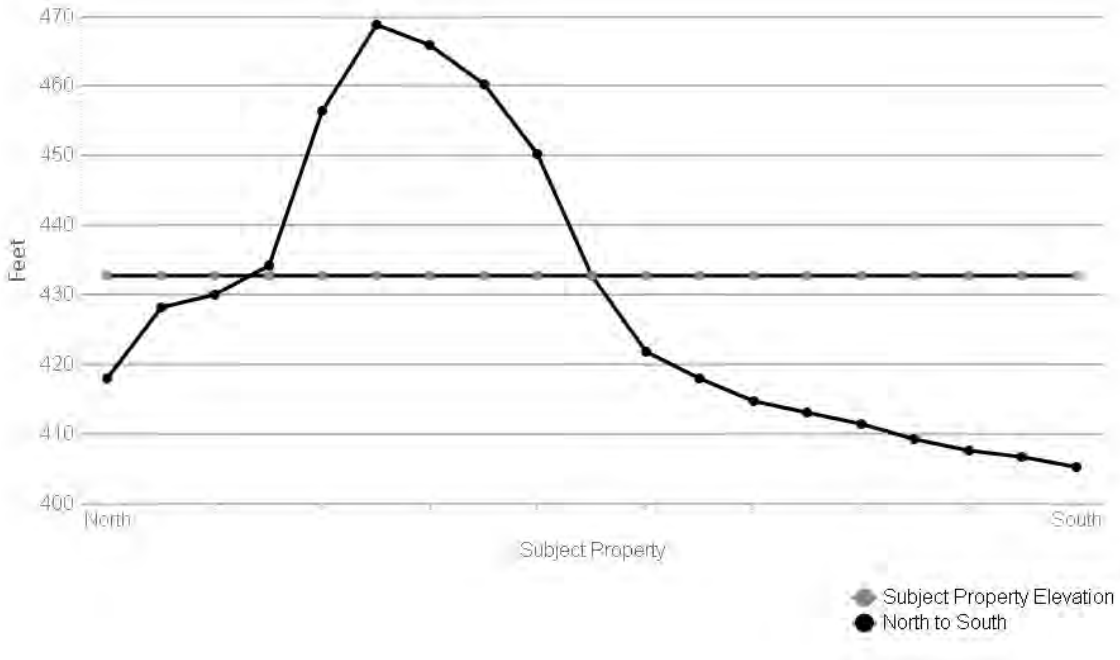
LITHOSTRATIGRAPHIC INFORMATION:

ROCK STRATIGRAPHIC UNIT:

GEOLOGIC AGE IDENTIFICATION

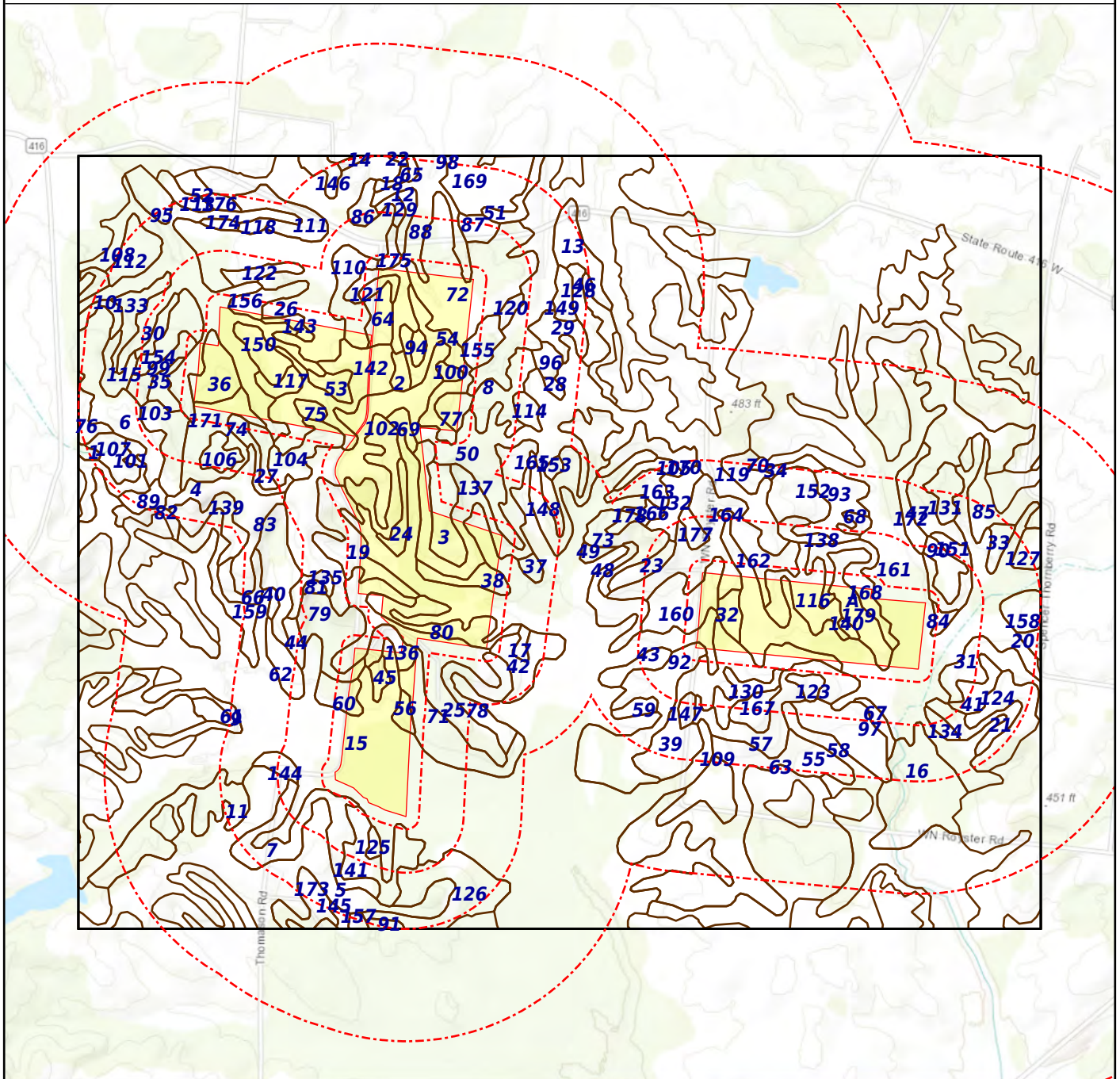
Era:	Paleozoic	Category: 85 PP3 Missourian Series
System:	Pennsylvanian	
Series:	Missourian Series	
Code:	PP3	

SURROUNDING ELEVATION PROFILES:



SUBJECT NAME: Sebree II (Additional Parcels)
ADDRESS: Henderson County, KY
LAT/LONG: 37.663848 / -87.590765

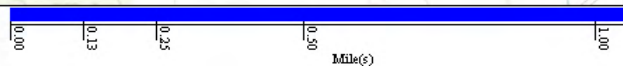
PREPARED FOR: Environmental Consulting & Technology...
ORDER #: 83842
REPORT DATE: February 21, 2023



+ Subject Property

- SSURGO

- STATSGO



SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

SOIL MAP ID 1

SSURGO

USDA Soil Name	Sharon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-18	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	18-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5

SOIL MAP ID 2

SSURGO

USDA Soil Name	Zanesville, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-61	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	61-102	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-4.23	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	61-102	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-4.23	4.5-5.5
4	102-152	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-5.5
5	152-177		No data	No data	0-0.92	0-0

SOIL MAP ID 3

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 4

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 5

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 6

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 7

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 8

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 9

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 10

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 11

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-55	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	55-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	55-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	183-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 12

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 13

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 14

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 15

SSURGO

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	8-24	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	24-195	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	195-255	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 16

SSURGO

USDA Soil Name	Bonnie,Taxadjunct
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Poorly drained
Hydric Classification	91
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	20-97	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-5.5
3	97-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-4.23	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	97-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-4.23	4.5-6.5

SOIL MAP ID 17

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 18

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 19

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 20

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 21

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-112	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	112-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	183-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	183-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 22

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 23

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 24

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 25

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 26

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 27

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-56	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	56-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	183-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	183-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 28

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 29

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 30

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 31

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 32

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 33

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 34

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-86	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 35

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 36

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	20-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 37

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 38

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 39

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 40

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 41

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 42

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 43

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 44

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 45

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 46

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 47

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 48

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 49

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 50

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	69-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 51

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 52

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 53

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 54

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 55

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 56

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 57

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 58

SSURGO

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	8-24	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	24-195	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	195-255	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 59

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 60

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 61

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 62

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 63

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 64

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 65

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 66

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 67

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 68

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	13-61	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	61-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 69

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 70

SSURGO

USDA Soil Name	Water,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 71

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 72

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 73

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 74

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 75

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 76

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 77

SSURGO

USDA Soil Name	Wellston, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-6.5
2	15-66	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	66-107	Sandy clay loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
4	107-132		No data	No data	0-0	0-0

SOIL MAP ID 78

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 79

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 80

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 81

SSURGO

USDA Soil Name	Gullied land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 82

SSURGO

USDA Soil Name	Hosmer,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials	FINE-GRAINED SOILS,	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 83

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 84

SSURGO

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-6
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-5.5

SOIL MAP ID 85

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	23-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-86	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 86

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 87

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	23-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 88

SSURGO

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	8-24	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	24-195	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	195-255	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 89

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	69-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	185-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 90

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	69-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 91

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	23-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	1.41-14.11	6.6-8.4

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 92

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	23-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-86	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 93

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5.1-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	23-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 94

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 95

SSURGO

USDA Soil Name	Dekoven, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Very poorly drained
Hydric Classification	94
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	6.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-41	Silt loam		distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8
2	41-165	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	6.1-7.8

SOIL MAP ID 96

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 97

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 98

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 99

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 100

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 101

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 102

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 103

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 104

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 105

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 106

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 107

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 108

SSURGO

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	8-24	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	24-195	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	195-255	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 109

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 110

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 111

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 112

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 113

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 114

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 115

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 116

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 117

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 118

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 119

SSURGO

USDA Soil Name	Zanesville, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-7	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	7-63	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	63-114	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-5.5
4	114-165	Clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	1.41-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	114-165	Clay loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-5.5
5	165-190		No data	No data	0-0.1	0-0

SOIL MAP ID 120

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 121

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 122

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 123

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 124

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 125

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 126

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 127

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 128

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-65	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	65-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 129

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 130

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-56	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	56-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	183-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 131

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 132

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 133

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 134

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 135

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 136

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 137

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 138

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 139

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 140

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 141

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 142

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 143

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam		distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 144

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984).	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 145

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.071-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.071-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 146

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 147

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	69-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	185-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 148

SSURGO

USDA Soil Name	Robbs, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	2
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
2	20-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1.41-4.23	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-4.23	4.5-6
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-5.5

SOIL MAP ID 149

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 150

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 151

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-55	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	55-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	55-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	183-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 152

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-7.3

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	15-55	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	55-183	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	183-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 153

SSURGO

USDA Soil Name	Gullied land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 154

SSURGO

USDA Soil Name	Hosmer,Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials	FINE-GRAINED SOILS,	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	(more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 155

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 156

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 157

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 158

SSURGO

USDA Soil Name	Uniontown, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.3
2	23-86	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	5.1-7.8

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-86	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5.1-7.8
3	86-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	6.6-8.4

SOIL MAP ID 159

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 160

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 161

SSURGO

USDA Soil Name	Belknap, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	6
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	8-24	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	8-24	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	24-195	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	195-255	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 162

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 163

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 164

SSURGO

USDA Soil Name	Water,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 165

SSURGO

USDA Soil Name	Water,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

SOIL MAP ID 166

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	10-51	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6
3	51-175	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6
4	175-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	0.07-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	175-203	Silt loam	Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.07-1.41	4.5-6

SOIL MAP ID 167

SSURGO

USDA Soil Name	Alford, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	B
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Low

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-7.3
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-69	Silty clay loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
3	69-185	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
4	185-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5

SOIL MAP ID 168

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 169

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	23-64	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 170

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 171

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 172

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 173

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 174

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	4.5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 175

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-56	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 176

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	15-56	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	56-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID 177

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0.42-1.41	5-6

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 178

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-15	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	5-6.5
2	15-85	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size	4.23-14.11	4.5-5.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	15-85	Silt loam	of State Highway and Transportation Officials, 1984.	distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	85-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	5-6

SOIL MAP ID 179

SSURGO

USDA Soil Name	Hosmer, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C/D
Soil Drainage Class	Moderately well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	4.23-14.11	4.5-6.5

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-23	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	4.23-14.11	4.5-6.5
2	23-64	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5.5
3	64-203	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-1.41	4.5-6

SOIL MAP ID A

STATSGO

USDA Soil Name	Grenada, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	8
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Silt loam	No data	No data	4.2343-14.1143	4.5-6
2	5-21	No data	No data	No data	4.2343-14.1143	4.5-6
3	21-24	Silt loam	No data	No data	4.2343-14.1143	4.5-6
4	24-42	No data	No data	No data	0.4234-1.4114	4.5-6
5	42-60	No data	No data	No data	0.4234-1.4114	5.1-7.3

WATER AGENCY DATA:

WATER AGENCY SEARCH DISTANCES:

<u>DATABASE:</u>	<u>SEARCH DISTANCE (MILES):</u>
NWIS	1.000
OIL & GAS WELLS - KY	1.000
PWS	1.000
WELLS - KY	1.000

<u>DISTANCE TO NEAREST:</u>	<u>DISTANCE:</u>
NWIS	N/A
OIL & GAS WELLS - KY	0.000 mi / 0 ft
PWS	N/A
WELLS - KY	0.000 mi / 0 ft

FEDERAL WATER AGENCY DATA SUMMARY:

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
No Wells Found	N/R	N/R

Note: PWS System location is not always the same as well location.

STATE/LOCAL WATER AGENCY DATA SUMMARY:

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
1	106486	< 1/8 Mile WSW
A2	16101008360000-147670	< 1/8 Mile WSW
A3	2018724	< 1/8 Mile WSW
4	16101076890000-151612	< 1/8 Mile WSW
5	16101007380000-47329	< 1/8 Mile NW
6	16101072830000-2018727	< 1/8 Mile WSW
7	106487	< 1/8 Mile SW
B8	108162	< 1/8 Mile NW

STATE/LOCAL WATER AGENCY DATA SUMMARY: (cont.)

MAP ID:	WELL ID:	LOCATION FROM SP:
9	20006	< 1/8 Mile SW
B10	16101023770000-108161	< 1/8 Mile NW
B11	16101013510000-156253	< 1/8 Mile NW
C12	16101065210000-38868	< 1/8 Mile ESE
C13	16101062450000-10096	< 1/8 Mile E
14	107669	< 1/8 Mile WNW
15	16101003800000-147617	< 1/8 Mile WNW
D16	107666	< 1/8 Mile WNW
17	16101008660000-147675	< 1/8 Mile ESE
18	16101008320000-147659	< 1/8 Mile SW
19	2018774	< 1/8 Mile SW
20	16101008680000-147662	< 1/8 Mile SW
D21	16101003830000-147620	< 1/8 Mile WNW
22	16101003870000-25637	< 1/8 Mile NW
E23	2018769	< 1/8 Mile SW
E24	16101008230000-147669	< 1/8 Mile SW
25	16101037730000-27983	< 1/8 Mile WNW
26	106488	< 1/8 Mile WSW
F27	16101008220000-147668	< 1/8 Mile SW
G28	16101008670000-147676	< 1/8 Mile SW
G29	16101009950000-20009	< 1/8 Mile SW
G30	16101041800000-20008	< 1/8 Mile SW
H31	16101008300000-147653	< 1/8 Mile SSW
F32	2018767	< 1/8 Mile SW
I33	107667	< 1/8 Mile NNW
J34	107538	< 1/8 Mile NW
35	16101037700000-22871	< 1/8 Mile WNW
E36	2018725	< 1/8 Mile SW
J37	16101003820000-147619	< 1/8 Mile NW
K38	16101008650000-147792	< 1/8 Mile SW
39	16101040880000-101975	< 1/8 Mile WNW
H40	2018766	< 1/8 Mile SSW
41	16101035610000-10074	< 1/8 Mile SW
G42	16101008350000-147673	< 1/8 Mile SW
43	16101052210000-22881	< 1/8 Mile ESE
44	3004008	< 1/8 Mile E
45	20004	< 1/8 Mile WSW
E46	16101008260000-147658	< 1/8 Mile SW
L47	2018770	< 1/8 Mile SW
K48	20005	< 1/8 Mile WSW
49	16101053480000-10100	< 1/8 Mile E
I50	16101003860000-147618	< 1/8 Mile NNW
M51	108146	< 1/8 Mile WNW
N52	108154	< 1/8 Mile WNW
N53	16101003790000-147616	< 1/8 Mile WNW
54	2018733	< 1/8 Mile W
55	16101008310000-147654	< 1/8 Mile SSW
56	16101001090000-10098	< 1/8 Mile ESE
L57	16101008270000-2018739	< 1/8 Mile SW
M58	2018729	< 1/8 Mile W
59	16101041810000-20007	< 1/8 Mile SSW
L60	2018738	1/8 - 1/4 Mile SW
E61	135026	1/8 - 1/4 Mile SW
E62	20001	1/8 - 1/4 Mile SW
63	16101008370000-147671	1/8 - 1/4 Mile SW
64	2018777	1/8 - 1/4 Mile NW
65	16101072390000-157756	1/8 - 1/4 Mile SE
O66	16101032420000-108160	1/8 - 1/4 Mile NW
67	16101030020000-2018970	1/8 - 1/4 Mile NNW
68	2018765	1/8 - 1/4 Mile ESE
P69	135027 20003	1/8 - 1/4 Mile SSW
L70	16101041980000-19809	1/8 - 1/4 Mile SSW
71	16101060350000-10073	1/8 - 1/4 Mile SW
		1/8 - 1/4 Mile ESE

STATE/LOCAL WATER AGENCY DATA SUMMARY: (cont.)

MAP ID:	WELL ID:	LOCATION FROM SP:
Q72	2018768	1/8 - 1/4 Mile SW
R73	16101041780000-104539	1/8 - 1/4 Mile SW
Q74	16101009130000-2018772	1/8 - 1/4 Mile SW
75	2018773	1/8 - 1/4 Mile SSW
P76	16101009140000-2018771	1/8 - 1/4 Mile SSW
O77	00065954	1/8 - 1/4 Mile NNW
78	16101037470000-22924	1/8 - 1/4 Mile N
79	16101016530000-107541 16101056410000-107611	1/8 - 1/4 Mile NW
Q80	16101008750000-147664	1/8 - 1/4 Mile SW
81	16101064030000-108148	1/8 - 1/4 Mile N
82	16101051560000-10097	1/8 - 1/4 Mile ESE
R83	16101008280000-2018740	1/8 - 1/4 Mile SW
84	2018726	1/8 - 1/4 Mile WSW
85	16101058380000-107542	1/8 - 1/4 Mile WNW
86	16101060340000-2018758	1/8 - 1/4 Mile SE
87	19922	1/8 - 1/4 Mile WSW
S88	16101008760000-147665	1/8 - 1/4 Mile SSW
89	2018742	1/8 - 1/4 Mile SW
90	135125	1/8 - 1/4 Mile S
S91	16101008330000-147672	1/8 - 1/4 Mile SSW
S92	2018775	1/8 - 1/4 Mile SSW
93	2018734	1/8 - 1/4 Mile W
R94	16101076900000-151611	1/8 - 1/4 Mile SW
95	16101003880000-100330	1/8 - 1/4 Mile NW
96	16101054750000-48365	1/8 - 1/4 Mile E
T97	16101073250000-2018764	1/8 - 1/4 Mile SSW
98	16101009120000-19999 2018760	1/4 - 1/2 Mile SSW
99	16101003850000-107537	1/4 - 1/2 Mile NW
U100	00001565	1/4 - 1/2 Mile SE
101	00000712	1/4 - 1/2 Mile ESE
T102	16101006130000-35353	1/4 - 1/2 Mile SSW
103	16101010000000-147791	1/4 - 1/2 Mile SW
104	16101035670000-10101	1/4 - 1/2 Mile E
105	20000	1/4 - 1/2 Mile SSW
V106	2018761	1/4 - 1/2 Mile SW
107	16101054760000-10075	1/4 - 1/2 Mile SE
108	16101013870000-2018914	1/4 - 1/2 Mile ESE
U109	16101030110000-10102	1/4 - 1/2 Mile SE
110	16101047600000-10071	1/4 - 1/2 Mile SSE
111	16101002710000-22925	1/4 - 1/2 Mile NNW
V112	16101074330000-2018732	1/4 - 1/2 Mile SW
W113	16101052930000-2018744	1/4 - 1/2 Mile WSW
W114	2018743	1/4 - 1/2 Mile WSW
X115	16101063060000-107540	1/4 - 1/2 Mile ENE
T116	16101008420000-147661	1/4 - 1/2 Mile S
Y117	16101008290000-147652	1/4 - 1/2 Mile SW
118	16101018710000-48444	1/4 - 1/2 Mile E
119	00000713	1/4 - 1/2 Mile SE
120	16101013350000-108163	1/4 - 1/2 Mile NNW
121	16101054770000-10103	1/4 - 1/2 Mile ESE
Y122	16101041880000-104546	1/4 - 1/2 Mile SW
123	16101066940000-48368	1/4 - 1/2 Mile ESE
124	16101008770000-147666	1/4 - 1/2 Mile S
Z125	135025	1/4 - 1/2 Mile S
Z126	20002	1/4 - 1/2 Mile S
127	2018741	1/4 - 1/2 Mile SW
X128	16101026480000-2019430	1/4 - 1/2 Mile ENE
129	16101014670000-19923	1/4 - 1/2 Mile WSW
BA130	16101008400000-147674	1/4 - 1/2 Mile S
BB131	108520	1/4 - 1/2 Mile NW
132	100329	1/4 - 1/2 Mile WNW
133	16101051580000-10099	1/4 - 1/2 Mile E

STATE/LOCAL WATER AGENCY DATA SUMMARY: (cont.)

MAP ID:	WELL ID:	LOCATION FROM SP:
134	16101063980000-67975	1/4 - 1/2 Mile NNE
135	16101014450000-106684	1/4 - 1/2 Mile SSW
136	16101066830000-48369	1/4 - 1/2 Mile ESE
BA137	16101008410000-147660	1/4 - 1/2 Mile S
BB138	16101016520000-156262	1/4 - 1/2 Mile NW
139	2018884	1/4 - 1/2 Mile S
140	106484	1/4 - 1/2 Mile W
141	00001571	1/4 - 1/2 Mile SSE
BA142	16101041870000-105078	1/4 - 1/2 Mile S
BB143	107670	1/4 - 1/2 Mile NW
144	16101041830000-19998	1/4 - 1/2 Mile SSW
145	00001573	1/4 - 1/2 Mile ESE
146	16101069340000-128921	1/4 - 1/2 Mile S
147	16101063930000-108156 16101063940000-108158	1/4 - 1/2 Mile N
148	16101066950000-48367	1/4 - 1/2 Mile ESE
149	16101047510000-48427	1/4 - 1/2 Mile E
BA150	2018776	1/4 - 1/2 Mile S
151	16101003810000-107539	1/4 - 1/2 Mile NNW
152	19997	1/4 - 1/2 Mile S
153	16101030120000-2018759	1/4 - 1/2 Mile S
154	16101022340000-107627	1/4 - 1/2 Mile NW
155	2018762	1/4 - 1/2 Mile S
156	16101054740000-48366	1/4 - 1/2 Mile ESE
157	16101030090000-2018973	1/4 - 1/2 Mile SE
158	16101030050000-2018968	1/4 - 1/2 Mile SE
159	16101030100000-2018913	1/4 - 1/2 Mile SE
160	16101004680000-22926	1/4 - 1/2 Mile WNW
161	16101063960000-108155	1/4 - 1/2 Mile NNE
162	16101036940000-30738	1/4 - 1/2 Mile WNW
163	16101014210000-48355 16101016390000-48445	1/4 - 1/2 Mile ESE
164	16101051540000-48360	1/4 - 1/2 Mile ESE
165	16101041820000-19996	1/2 - 1 Mile S
166	16101005120000-22928	1/2 - 1 Mile WNW
167	16101019880000-48358	1/2 - 1 Mile ESE
168	16101002140000-10079 16101035570000-10078	1/2 - 1 Mile W
169	16101047480000-10094	1/2 - 1 Mile ESE
170	16101030130000-10076	1/2 - 1 Mile SSE
171	16101063950000-108157	1/2 - 1 Mile N
172	16101030140000-10077	1/2 - 1 Mile SSE
BC173	16101009990000-147677	1/2 - 1 Mile WSW
BD174	16101023140000-100321	1/2 - 1 Mile WNW
175	16101056400000-107665	1/2 - 1 Mile WNW
176	16101023120000-100326	1/2 - 1 Mile WNW
177	90040	1/2 - 1 Mile WSW
178	106485	1/2 - 1 Mile W
179	16101051530000-48363	1/2 - 1 Mile ESE
180	16101050190000-47629	1/2 - 1 Mile E
181	00004731	1/2 - 1 Mile NW
BD182	16101051860000-38401	1/2 - 1 Mile WNW
BE183	16101047470000-22880	1/2 - 1 Mile ESE
184	19995	1/2 - 1 Mile S
185	2018885	1/2 - 1 Mile SSW
BE186	48359	1/2 - 1 Mile ESE
187	2018731	1/2 - 1 Mile W
188	16101013440000-48362	1/2 - 1 Mile ESE
BC189	19808	1/2 - 1 Mile WSW
BF190	16101045780000-156318	1/2 - 1 Mile WNW
BF191	16101066460000-100327	1/2 - 1 Mile WNW
BE192	16101047490000-48453	1/2 - 1 Mile ESE
BF193	16101051960000-10233	1/2 - 1 Mile WNW

STATE/LOCAL WATER AGENCY DATA SUMMARY: (cont.)

MAP ID:	WELL ID:	LOCATION FROM SP:
194	16101036950000-30739	1/2 - 1 Mile W
BE195	16101019010000-48446	1/2 - 1 Mile ESE
196	2018763	1/2 - 1 Mile SSE
197	16101047520000-48357	1/2 - 1 Mile ESE
198	135021	1/2 - 1 Mile WSW
199	16101030060000-2018969	1/2 - 1 Mile SE
200	16101063920000-108159	1/2 - 1 Mile N
201	2018872	1/2 - 1 Mile SW
202	16101030070000-2018971	1/2 - 1 Mile SE
203	16101072370000-2018887	1/2 - 1 Mile S
204	16101040680000-10232	1/2 - 1 Mile N
BG205	16101008390000-147655	1/2 - 1 Mile S
BH206	16101004720000-108165	1/2 - 1 Mile WNW
207	16101023110000-100328	1/2 - 1 Mile WNW
208	00007668	1/2 - 1 Mile W
209	48364	1/2 - 1 Mile ESE
BG210	16101072360000-137377	1/2 - 1 Mile S
211	16101025780000-2019429	1/2 - 1 Mile ENE
BH212	100324 100325	1/2 - 1 Mile WNW
213	16101000750000-10080	1/2 - 1 Mile W
BG214	16101072240000-106685	1/2 - 1 Mile S
215	16101021130000-48356	1/2 - 1 Mile ESE
216	16101005130000-22931	1/2 - 1 Mile WNW
217	19807	1/2 - 1 Mile WSW
BI218	16101043860000-10072	1/2 - 1 Mile SSE
BI219	16101072620000-137956	1/2 - 1 Mile SSE
220	16101029690000-2018974	1/2 - 1 Mile ESE
221	16101066470000-46414	1/2 - 1 Mile WNW
BJ222	16101049650000-2018967	1/2 - 1 Mile SE
223	16101037630000-35354	1/2 - 1 Mile NNE
BK224	2018874	1/2 - 1 Mile SW
225	16101036960000-30740	1/2 - 1 Mile W
BK226	2018873	1/2 - 1 Mile SW
227	16101051910000-100319	1/2 - 1 Mile NW
228	16101066430000-46419	1/2 - 1 Mile WNW
229	16101073820000-139564	1/2 - 1 Mile NNE
BL230	16101022180000-100448	1/2 - 1 Mile S
231	2018730	1/2 - 1 Mile W
BL232	16101041970000-19993	1/2 - 1 Mile S
BJ233	16101000830000-10104	1/2 - 1 Mile SE
234	16101044330000-108147	1/2 - 1 Mile NW
235	16101001370000-10105	1/2 - 1 Mile SSE
236	16101051900000-100323	1/2 - 1 Mile WNW
237	100322 16101016630000-108372	1/2 - 1 Mile W
BM238	16101030080000-10107	1/2 - 1 Mile SE
BM239	16101051400000-2018916	1/2 - 1 Mile SE
240	108153 16101026430000-108152	1/2 - 1 Mile NW
BL241	19994	1/2 - 1 Mile S
242	16101038940000-36248	1/2 - 1 Mile WNW
243	25468	1/2 - 1 Mile S
BN244	2018889	1/2 - 1 Mile S
245	16101005340000-30491	1/2 - 1 Mile NW
246	16101070600000-46417	1/2 - 1 Mile WNW
247	16101015890000-108164	1/2 - 1 Mile N
BN248	2018886	1/2 - 1 Mile S
249	16233002730000-151479	1/2 - 1 Mile SSE
250	16101013450000-48361	1/2 - 1 Mile ESE
251	108118	1/2 - 1 Mile NNW
252	16101066790000-46413	1/2 - 1 Mile WNW
253	3003181	1/2 - 1 Mile W
254	16101044980000-2018736	1/2 - 1 Mile WSW
255	16101041700000-48381	1/2 - 1 Mile ESE
256	00005962	1/2 - 1 Mile ESE

STATE/LOCAL WATER AGENCY DATA SUMMARY: (cont.)

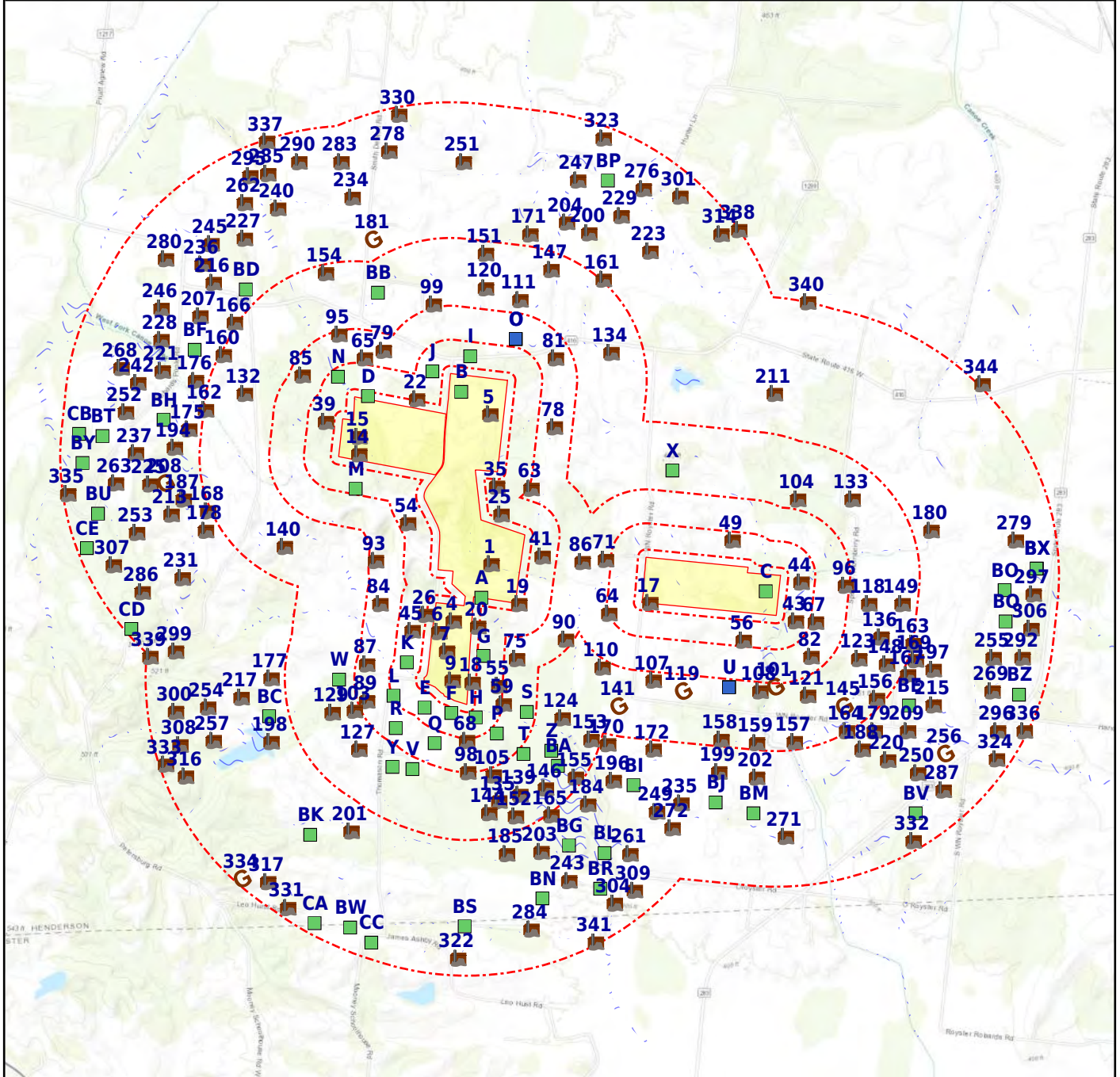
MAP ID:	WELL ID:	LOCATION FROM SP:
257	57611	1/2 - 1 Mile WSW
BO258	16101047550000-48448	1/2 - 1 Mile E
BP259	16101074030000-140739	1/2 - 1 Mile N
BQ260	16101020720000-48379	1/2 - 1 Mile E
261	16101072280000-137223	1/2 - 1 Mile SSE
262	16101016640000-108373 16101016660000-100318	1/2 - 1 Mile NW
263	108388 16101023150000-100320	1/2 - 1 Mile W
BO264	16101020730000-48378	1/2 - 1 Mile E
BR265	16101008740000-147663	1/2 - 1 Mile S
BS266	2041862	1/2 - 1 Mile SSW
BS267	16233025310000-132424	1/2 - 1 Mile SSW
268	16101023270000-108375 16101066890000-46411	1/2 - 1 Mile WNW
269	16101020620000-48452	1/2 - 1 Mile ESE
BR270	16101071350000-106686	1/2 - 1 Mile S
271	16101009050000-67024	1/2 - 1 Mile SE
272	2041848	1/2 - 1 Mile SSE
BQ273	16101038340000-42114	1/2 - 1 Mile E
BR274	16101071900000-135495	1/2 - 1 Mile S
BP275	16101015880000-25398	1/2 - 1 Mile N
276	16101073810000-139563	1/2 - 1 Mile NNE
BT277	16101033160000-108374 16101052100000-46412	1/2 - 1 Mile W
278	108075	1/2 - 1 Mile NNW
279	16101053260000-2018965	1/2 - 1 Mile E
280	16101070850000-46416	1/2 - 1 Mile WNW
BU281	2018746	1/2 - 1 Mile W
BT282	16101023260000-147874	1/2 - 1 Mile W
283	16101056290000-108070	1/2 - 1 Mile NW
284	16233015230000-157567	1/2 - 1 Mile S
285	16101026420000-108119	1/2 - 1 Mile NW
286	16101013710000-2018786	1/2 - 1 Mile W
287	2018964	1/2 - 1 Mile ESE
BV288	16101054500000-10108	1/2 - 1 Mile ESE
BW289	2041709	1/2 - 1 Mile SSW
290	16101026320000-107668	1/2 - 1 Mile NW
BV291	2018972	1/2 - 1 Mile ESE
292	16101020710000-48451	1/2 - 1 Mile ESE
BU293	16101005450000-28765	1/2 - 1 Mile W
BV294	16101005260000-22882	1/2 - 1 Mile ESE
295	16101016670000-100317	1/2 - 1 Mile NW
296	16101020890000-48447	1/2 - 1 Mile ESE
297	16101047540000-48449	1/2 - 1 Mile E
BW298	2018878	1/2 - 1 Mile SSW
299	106483	1/2 - 1 Mile WSW
300	2018737	1/2 - 1 Mile WSW
301	2019432	1/2 - 1 Mile NNE
BU302	16101018870000-46409 16101023000000-46397	1/2 - 1 Mile W
BX303	16101020740000-48382	1/2 - 1 Mile E
304	16233002630000-25469	1/2 - 1 Mile S
BY305	46418	1/2 - 1 Mile W
306	16101047530000-48450	1/2 - 1 Mile E
307	16101038950000-35229	1/2 - 1 Mile W
308	16101070030000-140282	1/2 - 1 Mile WSW
309	16101071410000-133637	1/2 - 1 Mile SSE
BZ310	16101047500000-48443	1/2 - 1 Mile ESE
CA311	16101016950000-2041713	1/2 - 1 Mile SW
BZ312	16101020630000-48380	1/2 - 1 Mile ESE
BY313	16101022990000-147871	1/2 - 1 Mile W
314	16101048320000-2019428	1/2 - 1 Mile NNE
CB315	16101033150000-108371 46415	1/2 - 1 Mile W

STATE/LOCAL WATER AGENCY DATA SUMMARY: (cont.)

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
316	1610104480000-2018735	1/2 - 1 Mile WSW
317	16101034820000-156308	1/2 - 1 Mile SW
CB318	16101022520000-147870	1/2 - 1 Mile W
CC320	16233019580000-2041716	1/2 - 1 Mile SSW
CC321	16233003720000-2041715	1/2 - 1 Mile SSW
322	16233025140000-131650	1/2 - 1 Mile SSW
323	16101064240000-108111	1/2 - 1 Mile N
324	16101020910000-48389	1/2 - 1 Mile ESE
CA325	2041711	1/2 - 1 Mile SW
CD326	16101031890000-2018755	1/2 - 1 Mile W
BW327	2041707	1/2 - 1 Mile SSW
CE328	16101063330000-42917	1/2 - 1 Mile W
CE329	16101063300000-10081	1/2 - 1 Mile W
330	108112	1/2 - 1 Mile NNW
331	2018877	1/2 - 1 Mile SW
332	16101005430000-22883	1/2 - 1 Mile SE
333	2018791	1/2 - 1 Mile WSW
334	00001581 00001583	1/2 - 1 Mile SW
335	16101065130000-46407	1/2 - 1 Mile W
336	16101020900000-48390	1/2 - 1 Mile ESE
337	16101051420000-108120	1/2 - 1 Mile NW
338	16101074270000-141170	1/2 - 1 Mile NE
339	16101018730000-2018757	1/2 - 1 Mile WSW
340	16101046640000-27979	1/2 - 1 Mile NE
341	25470	1/2 - 1 Mile S
CA342	2041712	1/2 - 1 Mile SW
CD343	20033	1/2 - 1 Mile W
344	16101014410000-10313	1/2 - 1 Mile ENE

SUBJECT NAME: Sebree II (Additional Parcels)
 ADDRESS: Henderson County, KY
 LAT/LONG: 37.663848 / -87.590765

PREPARED FOR: Environmental Consulting & Technology...
 ORDER #: 83842
 REPORT DATE: February 21, 2023



- + Subject Property
- X Basins (No Data)
- Geologic Cluster
- Geologic Cluster with Water Well
- Geological Site
- ⊗ NWI
- ⚡ NWIS (No Data)
- Oil & Gas Wells

Map Id: 1
 Direction: WSW
 Distance: 0.000 mi., 0 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 106486
 37.662425, -87.595362
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41891320
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	106486
Completion Date :	1946-04-27
Plugged Date :	N/R
Surface Elevation :	458.0
County :	HENDERSON
Farm Name :	ELLIOTT, C E
Operator :	CARTER OIL CO
Well Number :	2
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	1923.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.662425
Longitude :	-87.595362
Last Date in Agency List :	2022-11-21

Map Id: A2
 Direction: WSW
 Distance: 0.000 mi., 0 ft.
 Elevation: 462 ft.
 Relative: Higher

Site Name : 16101008360000-147670
 37.660803, -87.59587
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41716994
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008360000
KGS Record Number :	147670
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	ELLIOTT, C E (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N2603
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: A2
 Direction: WSW
 Distance: 0.000 mi., 0 ft.
 Elevation: 462 ft.
 Relative: Higher

Site Name : 16101008360000-147670
 37.660803, -87.59587
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41716994
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660803
 Longitude : -87.595870
 Last Date in Agency List : 2022-11-21

Map Id: A3
 Direction: WSW
 Distance: 0.000 mi., 0 ft.
 Elevation: 462 ft.
 Relative: Higher

Site Name : 2018724
 37.660722, -87.595811
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41870557
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018724
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 436.0
 County : HENDERSON
 Farm Name : ELLIOT, C E
 Operator : CARTER OIL CO
 Well Number : 1
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1850.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660722
 Longitude : -87.595811
 Last Date in Agency List : 2022-11-21

Map Id: 4
 Direction: WSW
 Distance: 0.000 mi., 0 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101076890000-151612
 37.65936, -87.597841
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41905563
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101076890000
KGS Record Number :	151612
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	UNKNOWN
Operator :	UNKNOWN
Well Number :	UN
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N22576
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.659360
Longitude :	-87.597841
Last Date in Agency List :	2022-11-21

Map Id: 5
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 461 ft.
 Relative: Higher

Site Name : 16101007380000-47329
 37.670417, -87.595449
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41706930
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101007380000
KGS Record Number :	47329
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	459.0
County :	HENDERSON
Farm Name :	PARRISH, BILLY W
Operator :	LONG RIFLE ENERGY CORP
Well Number :	3
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	65717
Measure :	0
Vertical :	0.0

Map Id: 5
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 461 ft.
 Relative: Higher

Site Name : 16101007380000-47329
 37.670417, -87.595449
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41706930
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.670417
 Longitude : -87.595449
 Last Date in Agency List : 2022-11-21

Map Id: 6
 Direction: WSW
 Distance: 0.000 mi., 0 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101072830000-2018727
 37.658745, -87.598801
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41779014
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101072830000
 KGS Record Number : 2018727
 Completion Date : N/R
 Plugged Date : 1953-07-14
 Surface Elevation : 416.0
 County : HENDERSON
 Farm Name : CRAVENS, JENNIE
 Operator : PORTIS, RICHARD
 Well Number : 1
 Total Depth Formation : 300PLZC
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 4862WF
 Measure : 0
 Vertical : 2696.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.658745
 Longitude : -87.598801
 Last Date in Agency List : 2022-11-21

Map Id: 7
 Direction: SW
 Distance: 0.000 mi., 0 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 106487
 37.657732, -87.598283
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41735299
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	106487
Completion Date :	1946-03-28
Plugged Date :	N/R
Surface Elevation :	420.0
County :	HENDERSON
Farm Name :	DENTON, S T
Operator :	CARTER OIL CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2691.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.657732
Longitude :	-87.598283
Last Date in Agency List :	2022-11-21

Map Id: B8
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 108162
 37.67157, -87.5969
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41748499
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	108162
Completion Date :	1945-11-27
Plugged Date :	N/R
Surface Elevation :	442.0
County :	HENDERSON
Farm Name :	MCMULLIN, O P
Operator :	MIMS, A S
Well Number :	1
Total Depth Formation :	332BTHL
Deepest Pay :	332CPRS
Well Classification :	Extension (outpost) well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2388.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.671570

Map Id: B8
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 108162
 37.67157, -87.5969
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41748499
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.596900
 Last Date in Agency List : 2022-11-21

Map Id: 9
 Direction: SW
 Distance: 0.000 mi., 0 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 20006
 37.656222, -87.597937
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41862772
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 20006
 Completion Date : 1945-01-25
 Plugged Date : N/R
 Surface Elevation : 418.0
 County : HENDERSON
 Farm Name : DENTON, S T
 Operator : CARTER OIL CO
 Well Number : 1
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1819.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.656222
 Longitude : -87.597937
 Last Date in Agency List : 2022-11-21

Map Id: B10
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 16101023770000-108161
 37.672064, -87.596831
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41730186
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101023770000
 KGS Record Number : 108161
 Completion Date : 1956-12-06

Map Id: B10
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 16101023770000-108161
 37.672064, -87.596831
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41730186
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 491.0
 County : HENDERSON
 Farm Name : MILLER, C G (MCMULLIN)
 Operator : REDWINE, NASH
 Well Number : 1 (2)
 Total Depth Formation : 332BTHL
 Deepest Pay : 332BTHL
 Well Classification : Development well
 Result : Oil producer
 Permit : 8172WF
 Measure : 0
 Vertical : 2387.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.672064
 Longitude : -87.596831
 Last Date in Agency List : 2022-11-21

Map Id: B11
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 16101013510000-156253
 37.671703, -87.59785
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41772735
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101013510000
 KGS Record Number : 156253
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : PARRISH, BILLY
 Operator : GEMBERLING, GARY R
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N3297
 Measure : 0
 Vertical : 0.0

 Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.671703

Map Id: B11
 Direction: NW
 Distance: 0.000 mi., 0 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 16101013510000-156253
 37.671703, -87.59785
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41772735
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.597850
 Last Date in Agency List : 2022-11-21

Map Id: C12
 Direction: ESE
 Distance: 0.000 mi., 0 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 16101065210000-38868
 37.660943, -87.577574
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41746527
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101065210000
 KGS Record Number : 38868
 Completion Date : 1955-09-23
 Plugged Date : 1955-09-23
 Surface Elevation : 417.0
 County : HENDERSON
 Farm Name : ROYSTER, F HEIRS
 Operator : V T DRILLING CO
 Well Number : 1
 Total Depth Formation : 333SGVW
 Deepest Pay : 000
 Well Classification : Extension (outpost) well
 Result : Dry & abandoned
 Permit : 6995WF
 Measure : 0
 Vertical : 2590.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660943
 Longitude : -87.577574
 Last Date in Agency List : 2022-11-21

Map Id: C13
 Direction: E
 Distance: 0.000 mi., 0 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 16101062450000-10096
 37.661218, -87.576918
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41718769
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101062450000
 KGS Record Number : 10096
 Completion Date : N/R

Map Id: C13
 Direction: E
 Distance: 0.000 mi., 0 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 16101062450000-10096
 37.661218, -87.576918
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41718769
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 413.0
 County : HENDERSON
 Farm Name : MAYS, OSCAR
 Operator : BERRY, RICHARD
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 38927
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.661218
 Longitude : -87.576918
 Last Date in Agency List : 2022-11-21

Map Id: 14
 Direction: WNW
 Distance: 0.000 mi., 0 ft.
 Elevation: 450 ft.
 Relative: Higher

Site Name : 107669
 37.668302, -87.603982
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41924359
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 107669
 Completion Date : 1943-08-02
 Plugged Date : N/R
 Surface Elevation : 451.0
 County : HENDERSON
 Farm Name : DENTON, S T
 Operator : CARTER OIL CO
 Well Number : 6
 Total Depth Formation : 333SGVV
 Deepest Pay : 333SGVV
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 2597.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)

Map Id: 14
 Direction: WNW
 Distance: 0.000 mi., 0 ft.
 Elevation: 450 ft.
 Relative: Higher

Site Name : 107669
 37.668302, -87.603982
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41924359
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Latitude : 37.668302
 Longitude : -87.603982
 Last Date in Agency List : 2022-11-21

Map Id: 15
 Direction: WNW
 Distance: 0.000 mi., 0 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 16101003800000-147617
 37.669183, -87.60398
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41775216
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101003800000
 KGS Record Number : 147617
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : DENTON, TOM
 Operator : HYDROCARBON INV, INC
 Well Number : 6
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 277W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669183
 Longitude : -87.603980
 Last Date in Agency List : 2022-11-21

Map Id: D16
 Direction: WNW
 Distance: 0.005 mi., 25 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 107666
 37.671378, -87.603291
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41877010
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	107666
Completion Date :	1943-04-30
Plugged Date :	N/R
Surface Elevation :	442.0
County :	HENDERSON
Farm Name :	DENTON, S T
Operator :	CARTER OIL CO
Well Number :	5
Total Depth Formation :	332PCEK
Deepest Pay :	332BTHL
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2380.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.671378
Longitude :	-87.603291
Last Date in Agency List :	2022-11-21

Map Id: 17
 Direction: ESE
 Distance: 0.007 mi., 35 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101008660000-147675
 37.660324, -87.584969
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41718738
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008660000
KGS Record Number :	147675
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	CRAVENS, J R (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N2719
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: 17
 Direction: ESE
 Distance: 0.007 mi., 35 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101008660000-147675
 37.660324, -87.584969
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41718738
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660324
 Longitude : -87.584969
 Last Date in Agency List : 2022-11-21

Map Id: 18
 Direction: SW
 Distance: 0.012 mi., 64 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 16101008320000-147659
 37.656083, -87.59656
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41883672
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008320000
 KGS Record Number : 147659
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 419.0
 County : HENDERSON
 Farm Name : EBLEN HEIRS (ORTHEAST POOLE UTS UNIT)
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 6
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1135W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.656083
 Longitude : -87.596560
 Last Date in Agency List : 2022-11-21

Map Id: 19
 Direction: SW
 Distance: 0.013 mi., 68 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 2018774
 37.660255, -87.593566
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41706388
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018774
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 452.0
 County : HENDERSON
 Farm Name : EBLIN, R
 Operator : CERRY & KIDD
 Well Number : 1
 Total Depth Formation : 332CPRS
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2282.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660255
 Longitude : -87.593566
 Last Date in Agency List : 2022-11-21

Map Id: 20
 Direction: SW
 Distance: 0.017 mi., 88 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101008680000-147662
 37.659073, -87.59624
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41714874
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008680000
 KGS Record Number : 147662
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : DENTON, S T (NORTHEAST POOLE UTS UNIT)
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N2721
 Measure : 0
 Vertical : 0.0
 Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: 20
 Direction: SW
 Distance: 0.017 mi., 88 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101008680000-147662
 37.659073, -87.59624
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41714874
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.659073
 Longitude : -87.596240
 Last Date in Agency List : 2022-11-21

Map Id: D21
 Direction: WNW
 Distance: 0.023 mi., 124 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 16101003830000-147620
 37.671653, -87.60329
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41862708
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101003830000
 KGS Record Number : 147620
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : DENTON, TOM
 Operator : HYDROCARBON INV, INC
 Well Number : 5
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 222W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.671653
 Longitude : -87.603290
 Last Date in Agency List : 2022-11-21

Map Id: 22
 Direction: NW
 Distance: 0.027 mi., 141 ft.
 Elevation: 452 ft.
 Relative: Higher

Site Name : 16101003870000-25637
 37.67124, -87.600269
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41842758
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101003870000
 KGS Record Number : 25637
 Completion Date : 1943-02-10
 Plugged Date : N/R
 Surface Elevation : 455.0
 County : HENDERSON
 Farm Name : DENTON, S T
 Operator : CARTER OIL CO
 Well Number : 2
 Total Depth Formation : 332BTHL
 Deepest Pay : 332BTHL
 Well Classification : Development well
 Result : Oil producer
 Permit : N1241
 Measure : 0
 Vertical : 2385.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.671240
 Longitude : -87.600269
 Last Date in Agency List : 2022-11-21

Map Id: E23
 Direction: SW
 Distance: 0.031 mi., 165 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 2018769
 37.655343, -87.598973
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41781051
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018769
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 428.0
 County : HENDERSON
 Farm Name : EBLEN
 Operator : ASHLAND OIL & REFINING CO
 Well Number : 8
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1859.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655343

Map Id: E23
 Direction: SW
 Distance: 0.031 mi., 165 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 2018769
 37.655343, -87.598973
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41781051
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.598973
 Last Date in Agency List : 2022-11-21

Map Id: E24
 Direction: SW
 Distance: 0.032 mi., 172 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101008230000-147669
 37.655313, -87.59897
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41859393
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008230000
 KGS Record Number : 147669
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : EBLEN HEIRS (NORTHEAST POOLE LTS UNIT)
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 8
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1236W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655313
 Longitude : -87.598970
 Last Date in Agency List : 2022-11-21

Map Id: 25
 Direction: WNW
 Distance: 0.033 mi., 174 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 16101037730000-27983
 37.665034, -87.594708
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41763105
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101037730000
KGS Record Number :	27983
Completion Date :	1983-12-16
Plugged Date :	N/R
Surface Elevation :	470.0
County :	HENDERSON
Farm Name :	SCOTT, L HEIRS
Operator :	GALLAGHER, VICTOR R
Well Number :	2
Total Depth Formation :	333STLS
Deepest Pay :	000
Well Classification :	Extension (outpost) well
Result :	Dry & abandoned
Permit :	59229
Measure :	0
Vertical :	2770.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.665034
Longitude :	-87.594708
Last Date in Agency List :	2022-11-21

Map Id: 26
 Direction: WSW
 Distance: 0.036 mi., 190 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 106488
 37.659706, -87.59963
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41778069
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	106488
Completion Date :	1947-02-22
Plugged Date :	1993-03-29
Surface Elevation :	433.0
County :	HENDERSON
Farm Name :	CRAVENS, J P
Operator :	CARTER OIL CO
Well Number :	4
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	1940.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.659706

Map Id: 26
 Direction: WSW
 Distance: 0.036 mi., 190 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 106488
 37.659706, -87.59963
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41778069
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.599630
 Last Date in Agency List : 2022-11-21

Map Id: F27
 Direction: SW
 Distance: 0.041 mi., 218 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101008220000-147668
 37.654603, -87.59773
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41771268
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008220000
 KGS Record Number : 147668
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : EBLEN HEIRS (NORTHWEAST POLE LTS UNIT
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 7
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1146W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654603
 Longitude : -87.597730
 Last Date in Agency List : 2022-11-21

Map Id: G28
 Direction: SW
 Distance: 0.044 mi., 235 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101008670000-147676
 37.657703, -87.59587
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41764876
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008670000
KGS Record Number :	147676
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	DENTON, S T (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N2720
Measure :	0
Vertical :	0.0
 Plot Symbol :	 Newly permitted locations or historic wells for which completion data are not available in the KGS database
 Bore Type :	 Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.657703
Longitude :	-87.595870
Last Date in Agency List :	2022-11-21

Map Id: G29
 Direction: SW
 Distance: 0.046 mi., 242 ft.
 Elevation: 417 ft.
 Relative: Lower

Site Name : 16101009950000-20009
 37.657097, -87.59588
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41900083
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101009950000
KGS Record Number :	20009
Completion Date :	1971-01-16
Plugged Date :	N/R
Surface Elevation :	416.0
County :	HENDERSON
Farm Name :	EBLEN, SARAH
Operator :	ASHLAND OIL & REFINING CO, INC
Well Number :	5W
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Service well, EPA Class II injection
Result :	Secondary recovery injection (Class II)
Permit :	24430
Measure :	0
Vertical :	1586.0

Map Id: G29
 Direction: SW
 Distance: 0.046 mi., 242 ft.
 Elevation: 417 ft.
 Relative: Lower

Site Name : 16101009950000-20009
 37.657097, -87.59588
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41900083
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657097
 Longitude : -87.595880
 Last Date in Agency List : 2022-11-21

Map Id: G30
 Direction: SW
 Distance: 0.046 mi., 243 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101041800000-20008
 37.65732, -87.595865
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41737407
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041800000
 KGS Record Number : 20008
 Completion Date : 1948-04-27
 Plugged Date : 1988-09-15
 Surface Elevation : 423.0
 County : HENDERSON
 Farm Name : EBLEN, SARAH
 Operator : SINCLAIR-PRAIRIE OIL CO
 Well Number : 3
 Total Depth Formation : 332GLND
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : 1234W
 Measure : 0
 Vertical : 1827.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657320
 Longitude : -87.595865
 Last Date in Agency List : 2022-11-21

Map Id: H31
 Direction: SSW
 Distance: 0.048 mi., 254 ft.
 Elevation: 412 ft.
 Relative: Lower

Site Name : 16101008300000-147653
 37.654524, -87.59621
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41843920
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008300000
KGS Record Number :	147653
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EBLEN HEIRS (NORTHEAST POOLE UTS UNIT
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	4
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1105W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654524
Longitude :	-87.596210
Last Date in Agency List :	2022-11-21

Map Id: F32
 Direction: SW
 Distance: 0.049 mi., 259 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 2018767
 37.654519, -87.597868
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41736145
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018767
Completion Date :	N/R
Plugged Date :	2012-11-09
Surface Elevation :	419.0
County :	HENDERSON
Farm Name :	EBLIN
Operator :	ASHLAND OIL & REFINING CO
Well Number :	6
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1826.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: F32
 Direction: SW
 Distance: 0.049 mi., 259 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 2018767
 37.654519, -87.597868
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41736145
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654519
Longitude :	-87.597868
Last Date in Agency List :	2022-11-21

Map Id: I33
 Direction: NNW
 Distance: 0.060 mi., 317 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 107667
 37.673437, -87.596555
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41707151
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	107667
Completion Date :	1943-04-21
Plugged Date :	N/R
Surface Elevation :	432.0
County :	HENDERSON
Farm Name :	DENTON, S T
Operator :	CARTER OIL CO
Well Number :	4
Total Depth Formation :	332RNL
Deepest Pay :	332RNL
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2370.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.673437
Longitude :	-87.596555
Last Date in Agency List :	2022-11-21

Map Id: J34
 Direction: NW
 Distance: 0.060 mi., 318 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 107538
 37.672778, -87.599008
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740353
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	107538
Completion Date :	1943-01-16
Plugged Date :	N/R
Surface Elevation :	445.0
County :	HENDERSON
Farm Name :	DENTON, S T
Operator :	CARTER OIL CO
Well Number :	1
Total Depth Formation :	333STLS
Deepest Pay :	000
Well Classification :	New pool wildcat
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2744.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672778
Longitude :	-87.599008
Last Date in Agency List :	2022-11-21

Map Id: 35
 Direction: WNW
 Distance: 0.061 mi., 324 ft.
 Elevation: 482 ft.
 Relative: Higher

Site Name : 16101037700000-22871
 37.666572, -87.595001
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41868195
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101037700000
KGS Record Number :	22871
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	479.0
County :	HENDERSON
Farm Name :	SCOTT HEIRS
Operator :	GALLAGHER, VICTOR R
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Terminated (permit expired or cancelled)
Permit :	58958
Measure :	0
Vertical :	0.0

Map Id: 35
 Direction: WNW
 Distance: 0.061 mi., 324 ft.
 Elevation: 482 ft.
 Relative: Higher

Site Name : 1610103770000-22871
 37.666572, -87.595001
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41868195
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.666572
Longitude : -87.595001
Last Date in Agency List : 2022-11-21

Map Id: E36
 Direction: SW
 Distance: 0.063 mi., 334 ft.
 Elevation: 435 ft.
 Relative: Higher

Site Name : 2018725
 37.65526, -87.599837
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41885394
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
KGS Record Number : 2018725
Completion Date : N/R
Plugged Date : N/R
Surface Elevation : 0.0
County : HENDERSON
Farm Name : EBLIN HEIRS
Operator : ASHLAND OIL & REFINING CO
Well Number : 13
Total Depth Formation : 332TSPG
Deepest Pay : 000
Well Classification : Unclassified
Result : Oil producer
Permit : N/R
Measure : 0
Vertical : 1872.0
Plot Symbol : Wells completed as oil (including abandoned producers)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.655260
Longitude : -87.599837
Last Date in Agency List : 2022-11-21

Map Id: J37
 Direction: NW
 Distance: 0.064 mi., 339 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101003820000-147619
 37.672893, -87.59906
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41772812
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101003820000
KGS Record Number :	147619
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	DENTON, TOM
Operator :	HYDROCARBON INV, INC
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	185W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672893
Longitude :	-87.599060
Last Date in Agency List :	2022-11-21

Map Id: K38
 Direction: SW
 Distance: 0.065 mi., 346 ft.
 Elevation: 417 ft.
 Relative: Lower

Site Name : 16101008650000-147792
 37.657323, -87.60053
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41755760
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008650000
KGS Record Number :	147792
Completion Date :	N/R
Plugged Date :	1993-03-29
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	CRAVENS, J R (NORTHEAST POOLE UTS UNIT
Operator :	GEIGO CO, LLP
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N2718
Measure :	0
Vertical :	0.0

Map Id: K38
 Direction: SW
 Distance: 0.065 mi., 346 ft.
 Elevation: 417 ft.
 Relative: Lower

Site Name : 16101008650000-147792
 37.657323, -87.60053
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41755760
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657323
 Longitude : -87.600530
 Last Date in Agency List : 2022-11-21

Map Id: 39
 Direction: WNW
 Distance: 0.067 mi., 352 ft.
 Elevation: 445 ft.
 Relative: Higher

Site Name : 16101040880000-101975
 37.670005, -87.606229
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41872223
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101040880000
 KGS Record Number : 101975
 Completion Date : N/R
 Plugged Date : 1990-07-03
 Surface Elevation : 449.0
 County : HENDERSON
 Farm Name : GOETZ, SUZZANNE (SUSANNA GATES)
 Operator : CARTER OIL CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 332BNST
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 278W
 Measure : 0
 Vertical : 2620.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.670005
 Longitude : -87.606229
 Last Date in Agency List : 2022-11-21

Map Id: H40
 Direction: SSW
 Distance: 0.068 mi., 358 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 2018766
 37.654163, -87.59621
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41722857
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018766
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	417.0
County :	HENDERSON
Farm Name :	EBLIN
Operator :	ASHLAND OIL & REFINING CO
Well Number :	5
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1820.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654163
Longitude :	-87.596210
Last Date in Agency List :	2022-11-21

Map Id: 41
 Direction: SW
 Distance: 0.070 mi., 369 ft.
 Elevation: 428 ft.
 Relative: Lower

Site Name : 16101035610000-10074
 37.66281, -87.591977
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41845364
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101035610000
KGS Record Number :	10074
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	425.0
County :	HENDERSON
Farm Name :	SCOTT, L A
Operator :	FLOYD E WILLIAMS EQUIPMENT CO
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Terminated (permit expired or cancelled)
Permit :	41930
Measure :	0
Vertical :	0.0

Map Id: 41
 Direction: SW
 Distance: 0.070 mi., 369 ft.
 Elevation: 428 ft.
 Relative: Lower

Site Name : 16101035610000-10074
 37.66281, -87.591977
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41845364
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.662810
Longitude : -87.591977
Last Date in Agency List : 2022-11-21

Map Id: G42
 Direction: SW
 Distance: 0.070 mi., 371 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101008350000-147673
 37.658003, -87.59538
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41850964
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008350000
KGS Record Number : 147673
Completion Date : N/R
Plugged Date : N/R
Surface Elevation : 0.0
County : HENDERSON
Farm Name : EBLEN, SARAH (NORTHEAST POOLE UTS UNIT)
Operator : COUNTRYMARK ENERGY RESOURCES, LLC
Well Number : 2
Total Depth Formation : 000
Deepest Pay : 000
Well Classification : Unclassified
Result : Location (new permit issued or insufficient data)
Permit : 1161W
Measure : 0
Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.658003
Longitude : -87.595380
Last Date in Agency List : 2022-11-21

Map Id: 43
 Direction: ESE
 Distance: 0.071 mi., 373 ft.
 Elevation: 420 ft.
 Relative: Lower

Site Name : 16101052210000-22881
 37.65935, -87.575398
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41749582
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101052210000
KGS Record Number :	22881
Completion Date :	1980-08-09
Plugged Date :	1980-08-10
Surface Elevation :	418.0
County :	HENDERSON
Farm Name :	SKIPWORTH, ELDORA
Operator :	BERRY, RICHARD
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Extension (outpost) well
Result :	Dry & abandoned
Permit :	38997
Measure :	0
Vertical :	2620.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.659350
Longitude :	-87.575398
Last Date in Agency List :	2022-11-21

Map Id: 44
 Direction: E
 Distance: 0.071 mi., 375 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 3004008
 37.66141, -87.575052
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41892499
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	3004008
Completion Date :	1947-01-11
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	ROYSTER, FANNIE ET AL
Operator :	CARTER OIL
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N/R
Measure :	0
Vertical :	1600.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: 44
 Direction: E
 Distance: 0.071 mi., 375 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 3004008
 37.66141, -87.575052
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41892499
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.661410
 Longitude : -87.575052
 Last Date in Agency List : 2022-11-21

Map Id: 45
 Direction: WSW
 Distance: 0.076 mi., 401 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 20004
 37.65883, -87.600528
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41732174
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 20004
 Completion Date : 1946-05-23
 Plugged Date : N/R
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : CRAVENS, J R
 Operator : CARTER OIL CO
 Well Number : 2
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1859.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.658830
 Longitude : -87.600528
 Last Date in Agency List : 2022-11-21

Map Id: E46
 Direction: SW
 Distance: 0.081 mi., 429 ft.
 Elevation: 433 ft.
 Relative: Lower

Site Name : 16101008260000-147658
 37.654653, -87.59941
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41888250
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008260000
KGS Record Number :	147658
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EBLEN HEIRS (NORTHEAST POOLE LTS UNIT
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	13
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1253W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654653
Longitude :	-87.599410
Last Date in Agency List :	2022-11-21

Map Id: L47
 Direction: SW
 Distance: 0.082 mi., 435 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 2018770
 37.655538, -87.600891
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41752242
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018770
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	424.0
County :	HENDERSON
Farm Name :	EBLIN
Operator :	ASHLAND OIL & REFINING CO
Well Number :	10
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1851.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: L47
 Direction: SW
 Distance: 0.082 mi., 435 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 2018770
 37.655538, -87.600891
 KY
Database(s) : [OIL & GAS WELLS - KY] (**cont.**)

Envirosite ID: 41752242
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.655538
Longitude :	-87.600891
Last Date in Agency List :	2022-11-21

Map Id: K48
 Direction: WSW
 Distance: 0.083 mi., 439 ft.
 Elevation: 420 ft.
 Relative: Lower

Site Name : 20005
 37.657183, -87.600873
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41880297
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	20005
Completion Date :	1946-05-10
Plugged Date :	1993-03-29
Surface Elevation :	422.0
County :	HENDERSON
Farm Name :	CRAVENS, J R
Operator :	CARTER OIL CO
Well Number :	1
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1856.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.657183
Longitude :	-87.600873
Last Date in Agency List :	2022-11-21

Map Id: 49
 Direction: E
 Distance: 0.087 mi., 458 ft.
 Elevation: 430 ft.
 Relative: Lower

Site Name : 16101053480000-10100
 37.663689, -87.579543
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41756602
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101053480000
 KGS Record Number : 10100
 Completion Date : 1982-02-03
 Plugged Date : 1982-02-03
 Surface Elevation : 430.0
 County : HENDERSON
 Farm Name : TILLMAN, SHERRY
 Operator : GRAVISS EXPLORATION & DEV
 Well Number : T 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 000
 Well Classification : New field wildcat
 Result : Dry & abandoned
 Permit : 47053
 Measure : 0
 Vertical : 2614.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.663689
 Longitude : -87.579543
 Last Date in Agency List : 2022-11-21

Map Id: I50
 Direction: NNW
 Distance: 0.089 mi., 468 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101003860000-147618
 37.673853, -87.59655
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41841298
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101003860000
 KGS Record Number : 147618
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : DENTON, TOM
 Operator : HYDROCARBON INV, INC
 Well Number : 4
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 215W
 Measure : 0
 Vertical : 0.0
 Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: I50
 Direction: NNW
 Distance: 0.089 mi., 468 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101003860000-147618
 37.673853, -87.59655
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41841298
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.673853
Longitude :	-87.596550
Last Date in Agency List :	2022-11-21

Map Id: M51
 Direction: WNW
 Distance: 0.091 mi., 481 ft.
 Elevation: 473 ft.
 Relative: Higher

Site Name : 108146
 37.666737, -87.60412
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41857775
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	108146
Completion Date :	1951-11-04
Plugged Date :	N/R
Surface Elevation :	473.0
County :	HENDERSON
Farm Name :	ROYSTER, F R
Operator :	SWEET, RAMA ET AL
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2646.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.666737
Longitude :	-87.604120
Last Date in Agency List :	2022-11-21

Map Id: N52
 Direction: WNW
 Distance: 0.093 mi., 492 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 108154
 37.672476, -87.605296
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41777629
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	108154
Completion Date :	1944-11-18
Plugged Date :	N/R
Surface Elevation :	428.0
County :	HENDERSON
Farm Name :	GATES, SUSANNA
Operator :	CARTER OIL CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	332BTHL
Well Classification :	Development well
Result :	Oil producer
Permit :	747W
Measure :	0
Vertical :	2577.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672476
Longitude :	-87.605296
Last Date in Agency List :	2022-11-21

Map Id: N53
 Direction: WNW
 Distance: 0.097 mi., 513 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 16101003790000-147616
 37.672613, -87.605191
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41715543
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101003790000
KGS Record Number :	147616
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	GATES, SUSANNA A
Operator :	HYDROCARBON INV, INC
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	747W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: N53
 Direction: WNW
 Distance: 0.097 mi., 513 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 16101003790000-147616
 37.672613, -87.605191
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41715543
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672613
Longitude :	-87.605191
Last Date in Agency List :	2022-11-21

Map Id: 54
 Direction: W
 Distance: 0.099 mi., 526 ft.
 Elevation: 484 ft.
 Relative: Higher

Site Name : 2018733
 37.664598, -87.600789
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41844551
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018733
Completion Date :	1944-01-26
Plugged Date :	N/R
Surface Elevation :	519.0
County :	HENDERSON
Farm Name :	STRUM, LEE
Operator :	BROWNING, ILEY
Well Number :	7
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1942.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.664598
Longitude :	-87.600789
Last Date in Agency List :	2022-11-21

Map Id: 55
 Direction: SSW
 Distance: 0.107 mi., 566 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101008310000-147654
 37.655894, -87.59483
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41860119
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008310000
KGS Record Number :	147654
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EBLEN HEIRS (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	5
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1119W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.655894
Longitude :	-87.594830
Last Date in Agency List :	2022-11-21

Map Id: 56
 Direction: ESE
 Distance: 0.110 mi., 583 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 16101001090000-10098
 37.658334, -87.578852
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41741994
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101001090000
KGS Record Number :	10098
Completion Date :	1981-06-28
Plugged Date :	2007-03-09
Surface Elevation :	417.0
County :	HENDERSON
Farm Name :	ROYSTER, RALPH
Operator :	ROSEWOOD WATERFLOOD, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333RCLR
Well Classification :	Development well
Result :	Oil producer
Permit :	42706
Measure :	0
Vertical :	2625.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: 56
 Direction: ESE
 Distance: 0.110 mi., 583 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 16101001090000-10098
 37.658334, -87.578852
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41741994
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.658334
Longitude :	-87.578852
Last Date in Agency List :	2022-11-21

Map Id: L57
 Direction: SW
 Distance: 0.112 mi., 593 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 16101008270000-2018739
 37.65548, -87.601477
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41882352
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008270000
KGS Record Number :	2018739
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	18
Total Depth Formation :	332MSSPU
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N2600
Measure :	0
Vertical :	1881.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.655480
Longitude :	-87.601477
Last Date in Agency List :	2022-11-21

Map Id: M58
 Direction: W
 Distance: 0.116 mi., 611 ft.
 Elevation: 472 ft.
 Relative: Higher

Site Name : 2018729
 37.666355, -87.604001
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41768596
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018729
Completion Date :	1943-05-20
Plugged Date :	N/R
Surface Elevation :	498.0
County :	HENDERSON
Farm Name :	GALLOWAY HEIRS
Operator :	ASHLAND OIL & REFINING CO
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2801.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.666355
Longitude :	-87.604001
Last Date in Agency List :	2022-11-21

Map Id: 59
 Direction: SSW
 Distance: 0.125 mi., 659 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101041810000-20007
 37.654918, -87.59457
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41708777
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101041810000
KGS Record Number :	20007
Completion Date :	1946-05-21
Plugged Date :	1988-09-21
Surface Elevation :	414.0
County :	HENDERSON
Farm Name :	EBLEN, SARAH
Operator :	SINCLAIR-PRAIRIE OIL CO
Well Number :	4
Total Depth Formation :	332GLND
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	1272W
Measure :	0
Vertical :	1812.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654918

Map Id: 59
 Direction: SSW
 Distance: 0.125 mi., 659 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101041810000-20007
 37.654918, -87.59457
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41708777
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.594570
 Last Date in Agency List : 2022-11-21

Map Id: L60
 Direction: SW
 Distance: 0.127 mi., 673 ft.
 Elevation: 433 ft.
 Relative: Lower

Site Name : 2018738
 37.65581, -87.601909
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41902936
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018738
 Completion Date : N/R
 Plugged Date : 1988-11-17
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : STRUM
 Operator : BROWNING, ILEY
 Well Number : 17
 Total Depth Formation : 300PLZC
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N/R
 Measure : 0
 Vertical : 1894.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655810
 Longitude : -87.601909
 Last Date in Agency List : 2022-11-21

Map Id: E61
 Direction: SW
 Distance: 0.132 mi., 696 ft.
 Elevation: 447 ft.
 Relative: Higher

Site Name : 135026
 37.654094, -87.60001
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41923431
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	135026
Completion Date :	N/R
Plugged Date :	1988-11-17
Surface Elevation :	451.0
County :	HENDERSON
Farm Name :	EBLIN HEIRS
Operator :	ASHLAND OIL & REFINING CO
Well Number :	11
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N/R
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654094
Longitude :	-87.600010
Last Date in Agency List :	2022-11-21

Map Id: E62
 Direction: SW
 Distance: 0.132 mi., 696 ft.
 Elevation: 447 ft.
 Relative: Higher

Site Name : 20001
 37.654093, -87.600009
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41904040
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	20001
Completion Date :	1946-05-28
Plugged Date :	N/R
Surface Elevation :	451.0
County :	HENDERSON
Farm Name :	EBLEN, SARAH
Operator :	ASHLAND OIL & REFINING CO, INC
Well Number :	11
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1877.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: E62
 Direction: SW
 Distance: 0.132 mi., 696 ft.
 Elevation: 447 ft.
 Relative: Higher

Site Name : 20001
 37.654093, -87.600009
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41904040
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654093
 Longitude : -87.600009
 Last Date in Agency List : 2022-11-21

Map Id: 63
 Direction: NW
 Distance: 0.132 mi., 699 ft.
 Elevation: 455 ft.
 Relative: Higher

Site Name : 16101008370000-147671
 37.666463, -87.59276
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41922046
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008370000
 KGS Record Number : 147671
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : GALLOWAY-WISE (NORTHEAST POOLE UTS UNIT)
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1070W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.666463
 Longitude : -87.592760
 Last Date in Agency List : 2022-11-21

Map Id: 64
 Direction: SE
 Distance: 0.132 mi., 700 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 2018777
 37.659735, -87.587625
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41748601
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018777
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	408.0
County :	HENDERSON
Farm Name :	WHITLEDGE, LOLA
Operator :	BASIN OIL CORP
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2634.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.659735
Longitude :	-87.587625
Last Date in Agency List :	2022-11-21

Map Id: 65
 Direction: NW
 Distance: 0.138 mi., 727 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101072390000-157756
 37.673393, -87.603641
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41885526
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101072390000
KGS Record Number :	157756
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	DENTON, TOM
Operator :	UNKNOWN
Well Number :	UN
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N16668
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: 65
 Direction: NW
 Distance: 0.138 mi., 727 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101072390000-157756
 37.673393, -87.603641
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 4188526
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.673393
Longitude :	-87.603641
Last Date in Agency List :	2022-11-21

Map Id: O66
 Direction: NNW
 Distance: 0.139 mi., 733 ft.
 Elevation: 437 ft.
 Relative: Higher

Site Name : 16101032420000-108160
 37.674313, -87.593757
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41884113
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101032420000
KGS Record Number :	108160
Completion Date :	1953-04-23
Plugged Date :	N/R
Surface Elevation :	433.0
County :	HENDERSON
Farm Name :	POOLE, NELLIE
Operator :	F E MORAN, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	4561WF
Measure :	0
Vertical :	2568.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.674313
Longitude :	-87.593757
Last Date in Agency List :	2022-11-21

Map Id: 67
 Direction: ESE
 Distance: 0.139 mi., 736 ft.
 Elevation: 435 ft.
 Relative: Higher

Site Name : 16101030020000-2018970
 37.659295, -87.574101
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41763600
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101030020000
 KGS Record Number : 2018970
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 430.0
 County : HENDERSON
 Farm Name : EDWARDS, F
 Operator : TULEY & CARTER
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 2575WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.659295
 Longitude : -87.574101
 Last Date in Agency List : 2022-11-21

Map Id: 68
 Direction: SSW
 Distance: 0.142 mi., 750 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 2018765
 37.652949, -87.596936
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41738771
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018765
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 430.0
 County : HENDERSON
 Farm Name : EBLIN
 Operator : ASHLAND OIL & REFINING CO
 Well Number : 4
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1850.0
 Plot Symbol : Wells completed as oil (including abandoned producers)

Map Id: 68
 Direction: SSW
 Distance: 0.142 mi., 750 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 2018765
 37.652949, -87.596936
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41738771
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.652949
 Longitude : -87.596936
 Last Date in Agency List : 2022-11-21

Map Id: P69
 Direction: SSW
 Distance: 0.145 mi., 766 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 135027 | 20003
 37.65382, -87.594656
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41714278
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 135027
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 420.0
 County : HENDERSON
 Farm Name : EBLIN HEIRS
 Operator : ASHLAND OIL & REFINING CO
 Well Number : 9
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N/R
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.653820
 Longitude : -87.594656
 Last Date in Agency List : 2022-11-21

API Number : N/R
 KGS Record Number : 20003
 Completion Date : 1946-05-06
 Plugged Date : N/R
 Surface Elevation : 420.0
 County : HENDERSON
 Farm Name : EBLEN, SARAH
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 9
 Total Depth Formation : 332TSPG

Map Id: P69
 Direction: SSW
 Distance: 0.145 mi., 766 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 135027 | 20003
 37.65382, -87.594656
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41714278
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1824.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.653820
 Longitude : -87.594656
 Last Date in Agency List : 2022-11-21

Map Id: L70
 Direction: SW
 Distance: 0.147 mi., 774 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 16101041980000-19809
 37.655192, -87.601995
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41897491
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041980000
 KGS Record Number : 19809
 Completion Date : 1961-12-29
 Plugged Date : 1988-07-05
 Surface Elevation : 434.0
 County : HENDERSON
 Farm Name : EBLEN HEIRS
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 14W
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Service well, EPA Class II injection
 Result : Secondary recovery injection (Class II)
 Permit : 5179
 Measure : 0
 Vertical : 1844.0
 Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655192
 Longitude : -87.601995
 Last Date in Agency List : 2022-11-21

Map Id: 71
 Direction: ESE
 Distance: 0.148 mi., 779 ft.
 Elevation: 451 ft.
 Relative: Higher

Site Name : 16101060350000-10073
 37.662672, -87.587833
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41863948
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101060350000
KGS Record Number :	10073
Completion Date :	1981-06-17
Plugged Date :	1981-06-17
Surface Elevation :	452.0
County :	HENDERSON
Farm Name :	HUST, MAYNARD
Operator :	ROSEWOOD WATERFLOOD, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Extension (outpost) well
Result :	Dry & abandoned
Permit :	42705
Measure :	0
Vertical :	2725.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.662672
Longitude :	-87.587833
Last Date in Agency List :	2022-11-21

Map Id: Q72
 Direction: SW
 Distance: 0.156 mi., 822 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 2018768
 37.653147, -87.598801
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41844789
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018768
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	426.0
County :	HENDERSON
Farm Name :	EBLIN
Operator :	ASHLAND OIL & REFINING
Well Number :	7
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1865.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653147

Map Id: Q72
 Direction: SW
 Distance: 0.156 mi., 822 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 2018768
 37.653147, -87.598801
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41844789
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.598801
 Last Date in Agency List : 2022-11-21

Map Id: R73
 Direction: SW
 Distance: 0.157 mi., 830 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101041780000-104539
 37.654436, -87.60146
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41765084
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041780000
 KGS Record Number : 104539
 Completion Date : 1946-06-07
 Plugged Date : 1991-08-26
 Surface Elevation : 427.0
 County : HENDERSON
 Farm Name : EBLEN HEIRS
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 12
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : 1290W
 Measure : 0
 Vertical : 1865.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654436
 Longitude : -87.601460
 Last Date in Agency List : 2022-11-21

Map Id: Q74
 Direction: SW
 Distance: 0.160 mi., 846 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101009130000-2018772
 37.653173, -87.599058
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41766807
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101009130000
 KGS Record Number : 2018772
 Completion Date : 1959-10-14

Map Id: Q74
 Direction: SW
 Distance: 0.160 mi., 846 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101009130000-2018772
 37.653173, -87.599058
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41766807
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	N/R
Surface Elevation :	439.0
County :	HENDERSON
Farm Name :	EBLEN HRS
Operator :	ASHLAND OIL & REFINING CO
Well Number :	2-WS
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	562W9
Measure :	0
Vertical :	1310.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653173
Longitude :	-87.599058
Last Date in Agency List :	2022-11-21

Map Id: 75
 Direction: SSW
 Distance: 0.164 mi., 866 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 2018773
 37.657317, -87.593704
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41723759
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018773
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	414.0
County :	HENDERSON
Farm Name :	EBLIN
Operator :	SINOLAIR PRAIE OIL CO
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1814.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.657317
Longitude :	-87.593704
Last Date in Agency List :	2022-11-21

Map Id: P76
 Direction: SSW
 Distance: 0.167 mi., 883 ft.
 Elevation: 437 ft.
 Relative: Higher

Site Name : 16101009140000-2018771
 37.653064, -87.595017
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41752900
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101009140000
KGS Record Number :	2018771
Completion Date :	1959-10-07
Plugged Date :	N/R
Surface Elevation :	435.0
County :	HENDERSON
Farm Name :	EBLINS HEIRS
Operator :	ASHLAND OIL & REFINING
Well Number :	1-W
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Miscellaneous well
Result :	Water supply
Permit :	561W9
Measure :	0
Vertical :	1330.0
Plot Symbol :	Miscellaneous well types, including cathodic protection, observation, water supply wells, and others
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653064
Longitude :	-87.595017
Last Date in Agency List :	2022-11-21

Map Id: O77
 Direction: NNW
 Distance: 0.180 mi., 951 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 00065954
 37.674873, -87.59344
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18597728
EPA ID: N/R

WELLS - KY

AKGWA Number :	00065954
AI Number :	115640
Public ID :	N/R
Construction Date :	1918-01-01
Status :	ACTIVE
Driller Certification Number :	9998
Driller Name :	Pre-law Driller
Owner Business Name :	N/R
Owner Name :	Jackie Pryor
Primary Use :	DOMESTIC - SINGLE HOUSEHOLD
Quadrangle :	Robards
Surface Elevation (Ft) :	436
Depth to Bedrock (Ft) :	N/R
Total Depth (Ft) :	N/R
Static Water Level (Ft) :	N/R
Regulatory Program :	N/R
County :	Henderson

Map Id: 077
 Direction: NNW
 Distance: 0.180 mi., 951 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 00065954
 37.674873, -87.59344
 KY
Database(s) : [WELLS - KY] (**cont.**)

Envirosite ID: 18597728
EPA ID: N/R

WELLS - KY (cont.)

Latitude : 37.674873
 Longitude : -87.593440
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: 78
 Direction: N
 Distance: 0.181 mi., 956 ft.
 Elevation: 448 ft.
 Relative: Higher

Site Name : 16101037470000-22924
 37.66973, -87.5912
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41887800
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101037470000
 KGS Record Number : 22924
 Completion Date : 1983-08-23
 Plugged Date : N/R
 Surface Elevation : 454.0
 County : HENDERSON
 Farm Name : HUST, MAYNARD
 Operator : GALLAGHER, VICTOR R
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Extension (outpost) well
 Result : Dry & abandoned
 Permit : 57252
 Measure : 0
 Vertical : 2721.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669730
 Longitude : -87.591200
 Last Date in Agency List : 2022-11-21

Map Id: 79
 Direction: NW
 Distance: 0.181 mi., 958 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101016530000-107541 |
 16101056410000-107611
 37.673849, -87.602428
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41742226
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101056410000
 KGS Record Number : 107611
 Completion Date : 1966-06-05
 Plugged Date : 1966-06-05
 Surface Elevation : 446.0
 County : HENDERSON
 Farm Name : DENTON, TOM
 Operator : HUMBLE OIL & REF CO
 Well Number : 3
 Total Depth Formation : 333SLWW
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 16708
 Measure : 0
 Vertical : 3371.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.673849
 Longitude : -87.602428
 Last Date in Agency List : 2022-11-21

API Number : 16101016530000
 KGS Record Number : 107541
 Completion Date : 1943-06-02
 Plugged Date : N/R
 Surface Elevation : 446.0
 County : HENDERSON
 Farm Name : DENTON, S T
 Operator : CARTER OIL CO
 Well Number : 3
 Total Depth Formation : 333SGVV
 Deepest Pay : 332BTHL
 Well Classification : Development well
 Result : Oil producer
 Permit : 202W
 Measure : 0
 Vertical : 2588.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.673849
 Longitude : -87.602428
 Last Date in Agency List : 2022-11-21

Map Id: Q80
 Direction: SW
 Distance: 0.182 mi., 959 ft.
 Elevation: 433 ft.
 Relative: Higher

Site Name : 16101008750000-147664
 37.652764, -87.59887
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41756330
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008750000
KGS Record Number :	147664
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EAKINS, ED (NORTHEAST POOLE UTS UNIT
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	3
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N2725
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652764
Longitude :	-87.598870
Last Date in Agency List :	2022-11-21

Map Id: 81
 Direction: N
 Distance: 0.184 mi., 972 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101064030000-108148
 37.673437, -87.591116
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41720477
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101064030000
KGS Record Number :	108148
Completion Date :	1953-05-06
Plugged Date :	1953-05-01
Surface Elevation :	431.0
County :	HENDERSON
Farm Name :	POOLE, WARREN
Operator :	F E MORAN, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	4618WF
Measure :	0
Vertical :	2653.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)

Map Id: 81
 Direction: N
 Distance: 0.184 mi., 972 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101064030000-108148
 37.673437, -87.591116
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41720477
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.673437
Longitude :	-87.591116
Last Date in Agency List :	2022-11-21

Map Id: 82
 Direction: ESE
 Distance: 0.198 mi., 1048 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 16101051560000-10097
 37.657458, -87.574412
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41729905
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101051560000
KGS Record Number :	10097
Completion Date :	1980-09-01
Plugged Date :	1980-09-01
Surface Elevation :	418.0
County :	HENDERSON
Farm Name :	ROYSTER, RALPH
Operator :	BIG BASIN OIL CO, INC
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	39274
Measure :	0
Vertical :	2585.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.657458
Longitude :	-87.574412
Last Date in Agency List :	2022-11-21

Map Id: R83
 Direction: SW
 Distance: 0.201 mi., 1064 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101008280000-2018740
 37.653668, -87.601477
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41766291
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008280000
KGS Record Number :	2018740
Completion Date :	N/R
Plugged Date :	2012-11-01
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	19
Total Depth Formation :	332MSSPU
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N2601
Measure :	0
Vertical :	1896.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653668
Longitude :	-87.601477
Last Date in Agency List :	2022-11-21

Map Id: 84
 Direction: WSW
 Distance: 0.202 mi., 1067 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 2018726
 37.660255, -87.6026
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41721805
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018726
Completion Date :	1953-07-16
Plugged Date :	N/R
Surface Elevation :	431.0
County :	HENDERSON
Farm Name :	CRAVENS, JENNIE
Operator :	GALLAGHER, V R
Well Number :	1
Total Depth Formation :	333MSSPM
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2696.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.660255

Map Id: 84
 Direction: WSW
 Distance: 0.202 mi., 1067 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 2018726
 37.660255, -87.6026
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41721805
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.602600
 Last Date in Agency List : 2022-11-21

Map Id: 85
 Direction: WNW
 Distance: 0.205 mi., 1083 ft.
 Elevation: 433 ft.
 Relative: Higher

Site Name : 16101058380000-107542
 37.672476, -87.607714
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41761867
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101058380000
 KGS Record Number : 107542
 Completion Date : 1955-06-27
 Plugged Date : 1955-06-29
 Surface Elevation : 437.0
 County : HENDERSON
 Farm Name : GATES, SUSANNA
 Operator : CARTER OIL CO
 Well Number : 3
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 6767WF
 Measure : 0
 Vertical : 2706.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.672476
 Longitude : -87.607714
 Last Date in Agency List : 2022-11-21

Map Id: 86
 Direction: SE
 Distance: 0.213 mi., 1124 ft.
 Elevation: 428 ft.
 Relative: Lower

Site Name : 16101060340000-2018758
 37.662535, -87.589387
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41767302
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101060340000
 KGS Record Number : 2018758
 Completion Date : 1952-05-03

Map Id: 86
 Direction: SE
 Distance: 0.213 mi., 1124 ft.
 Elevation: 428 ft.
 Relative: Lower

Site Name : 16101060340000-2018758
 37.662535, -87.589387
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41767302
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1952-06-06
 Surface Elevation : 430.0
 County : HENDERSON
 Farm Name : HURT, SHIRLEY EDWARD
 Operator : SKILES OIL CO
 Well Number : 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : 2797WF
 Measure : 0
 Vertical : 2698.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.662535
 Longitude : -87.589387
 Last Date in Agency List : 2022-11-21

Map Id: 87
 Direction: WSW
 Distance: 0.213 mi., 1124 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 19922
 37.657045, -87.603463
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41750611
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 19922
 Completion Date : 1946-07-06
 Plugged Date : 1991-12-11
 Surface Elevation : 426.0
 County : HENDERSON
 Farm Name : CRAVENS, J R
 Operator : CARTER OIL CO
 Well Number : 3
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1858.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657045
 Longitude : -87.603463
 Last Date in Agency List : 2022-11-21

Map Id: S88
 Direction: SSW
 Distance: 0.214 mi., 1128 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 16101008760000-147665
 37.654384, -87.59302
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41900125
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008760000
KGS Record Number :	147665
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	SARAH EBLEN HEIRS (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1076W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654384
Longitude :	-87.593020
Last Date in Agency List :	2022-11-21

Map Id: 89
 Direction: SW
 Distance: 0.222 mi., 1174 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 2018742
 37.655123, -87.603463
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41868770
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018742
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	459.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	21
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1901.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: 89
 Direction: SW
 Distance: 0.222 mi., 1174 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 2018742
 37.655123, -87.603463
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41868770
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.655123
Longitude :	-87.603463
Last Date in Agency List :	2022-11-21

Map Id: 90
 Direction: S
 Distance: 0.223 mi., 1179 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 135125
 37.658368, -87.590513
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41857047
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	135125
Completion Date :	1944-08-17
Plugged Date :	N/R
Surface Elevation :	421.0
County :	WEBSTER
Farm Name :	DIXON, N
Operator :	THE TEXAS CO
Well Number :	4
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1844.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.658368
Longitude :	-87.590513
Last Date in Agency List :	2022-11-21

Map Id: S91
 Direction: SSW
 Distance: 0.223 mi., 1179 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 16101008330000-147672
 37.654844, -87.59277
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41883367
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008330000
KGS Record Number :	147672
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EBLEN HEIRS (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	9
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	17547F
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654844
Longitude :	-87.592770
Last Date in Agency List :	2022-11-21

Map Id: S92
 Direction: SSW
 Distance: 0.226 mi., 1192 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 2018775
 37.654575, -87.592757
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41876407
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018775
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	412.0
County :	HENDERSON
Farm Name :	EBLEN, SARA
Operator :	SINCLAIR PRAIRIE OIL CO
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1819.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: S92
 Direction: SSW
 Distance: 0.226 mi., 1192 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 2018775
 37.654575, -87.592757
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41876407
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654575
Longitude :	-87.592757
Last Date in Agency List :	2022-11-21

Map Id: 93
 Direction: W
 Distance: 0.231 mi., 1220 ft.
 Elevation: 460 ft.
 Relative: Higher

Site Name : 2018734
 37.662565, -87.60293
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41900502
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018734
Completion Date :	1944-07-11
Plugged Date :	N/R
Surface Elevation :	466.0
County :	HENDERSON
Farm Name :	STRUM, LEE
Operator :	BROWNING, ILEY
Well Number :	8
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1877.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.662565
Longitude :	-87.602930
Last Date in Agency List :	2022-11-21

Map Id: R94
 Direction: SW
 Distance: 0.232 mi., 1224 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 1610107690000-151611
 37.653142, -87.601397
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41764994
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101076900000
KGS Record Number :	151611
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EBLEN HEIRS
Operator :	UNKNOWN
Well Number :	13
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N22577
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653142
Longitude :	-87.601397
Last Date in Agency List :	2022-11-21

Map Id: 95
 Direction: NW
 Distance: 0.232 mi., 1224 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 16101003880000-100330
 37.674673, -87.605365
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41715816
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101003880000
KGS Record Number :	100330
Completion Date :	1945-01-03
Plugged Date :	2012-03-26
Surface Elevation :	426.0
County :	HENDERSON
Farm Name :	SELLARS, IJ
Operator :	CARTER OIL CO
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	N1242
Measure :	0
Vertical :	2581.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: 95
 Direction: NW
 Distance: 0.232 mi., 1224 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 16101003880000-100330
 37.674673, -87.605365
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41715816
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.674673
Longitude :	-87.605365
Last Date in Agency List :	2022-11-21

Map Id: 96
 Direction: E
 Distance: 0.233 mi., 1230 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 16101054750000-48365
 37.661245, -87.572098
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41762863
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101054750000
KGS Record Number :	48365
Completion Date :	1952-06-09
Plugged Date :	N/R
Surface Elevation :	456.0
County :	HENDERSON
Farm Name :	WELDON, E V
Operator :	TULEY & CARTER
Well Number :	2
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Development well
Result :	Oil producer
Permit :	2906WF
Measure :	0
Vertical :	2010.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.661245
Longitude :	-87.572098
Last Date in Agency List :	2022-11-21

Map Id: T97
 Direction: SSW
 Distance: 0.238 mi., 1257 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 16101073250000-2018764
 37.652817, -87.593482
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41736092
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101073250000
KGS Record Number :	2018764
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	416.0
County :	HENDERSON
Farm Name :	EBLIN
Operator :	ASHLAND OIL & REFINING CO
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N17354
Measure :	0
Vertical :	1814.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652817
Longitude :	-87.593482
Last Date in Agency List :	2022-11-21

Map Id: 98
 Direction: SSW
 Distance: 0.257 mi., 1359 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101009120000-19999 | 2018760
 37.651279, -87.596901
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41864713
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018760
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	429.0
County :	HENDERSON
Farm Name :	WISE NO B-4
Operator :	ASHLAND OIL & REF CO
Well Number :	B-4
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1841.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: 98
 Direction: SSW
 Distance: 0.257 mi., 1359 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101009120000-19999 | 2018760
 37.651279, -87.596901
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41864713
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651279
 Longitude : -87.596901
 Last Date in Agency List : 2022-11-21

API Number : 16101009120000
 KGS Record Number : 19999
 Completion Date : 1961-12-14
 Plugged Date : N/R
 Surface Elevation : 429.0
 County : HENDERSON
 Farm Name : WISE, C B
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 4BW
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Service well, EPA Class II injection
 Result : Secondary recovery injection (Class II)
 Permit : 5528
 Measure : 0
 Vertical : 1890.0

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651279
 Longitude : -87.596901
 Last Date in Agency List : 2022-11-21

Map Id: 99
 Direction: NW
 Distance: 0.258 mi., 1361 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101003850000-107537
 37.676291, -87.599146
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41894189
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101003850000
 KGS Record Number : 107537
 Completion Date : 1943-02-23
 Plugged Date : 2005-04-18
 Surface Elevation : 439.0
 County : HENDERSON
 Farm Name : DENTON, JENNIE
 Operator : CARTER OIL CO
 Well Number : 1

Map Id: 99
 Direction: NW
 Distance: 0.258 mi., 1361 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101003850000-107537
 37.676291, -87.599146
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41894189
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Total Depth Formation :	333STLS
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	197W
Measure :	0
Vertical :	2737.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.676291
Longitude :	-87.599146
Last Date in Agency List :	2022-11-21

Map Id: U100
 Direction: SE
 Distance: 0.263 mi., 1391 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 00001565
 37.656155, -87.579453
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18612378
EPA ID: N/R

WELLS - KY

AKGWA Number :	00001565
AI Number :	N/R
Public ID :	N/R
Construction Date :	1985-08-29
Status :	ACTIVE
Driller Certification Number :	0023
Driller Name :	Romuald Eckols
Owner Business Name :	N/R
Owner Name :	Ray McCarmack
Primary Use :	DOMESTIC - SINGLE HOUSEHOLD
Quadrangle :	Robards
Surface Elevation (Ft) :	410
Depth to Bedrock (Ft) :	15
Total Depth (Ft) :	80
Static Water Level (Ft) :	30
Regulatory Program :	N/R
County :	Henderson
Latitude :	37.656155
Longitude :	-87.579453
Scanned Document :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2017-12-01

Map Id: 101
 Direction: ESE
 Distance: 0.268 mi., 1417 ft.
 Elevation: 406 ft.
 Relative: Lower

Site Name : 00000712
 37.655877, -87.576676
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18611802
EPA ID: N/R

WELLS - KY

AKGWA Number : 00000712
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1987-06-07
 Status : ACTIVE
 Driller Certification Number : 0023
 Driller Name : Romuald Eckols
 Owner Business Name : N/R
 Owner Name : Marcia Westerfield
 Primary Use : DOMESTIC - SINGLE HOUSEHOLD
 Quadrangle : Robards
 Surface Elevation (Ft) : 405
 Depth to Bedrock (Ft) : 12
 Total Depth (Ft) : 80
 Static Water Level (Ft) : 24
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.655877
 Longitude : -87.576676
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: T102
 Direction: SSW
 Distance: 0.269 mi., 1420 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101006130000-35353
 37.652554, -87.593026
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41921087
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101006130000
 KGS Record Number : 35353
 Completion Date : 1984-01-31
 Plugged Date : N/R
 Surface Elevation : 411.0
 County : HENDERSON
 Farm Name : EBLEN, SARAH
 Operator : ASHLAND EXPLORATION, INC
 Well Number : 14
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 60172
 Measure : 0
 Vertical : 2650.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.652554
 Longitude : -87.593026

Map Id: T102
 Direction: SSW
 Distance: 0.269 mi., 1420 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101006130000-35353
 37.652554, -87.593026
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41921087
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Last Date in Agency List : 2022-11-21

Map Id: 103
 Direction: SW
 Distance: 0.280 mi., 1480 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 16101010000000-147791
 37.654573, -87.60433
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41712242
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101010000000
 KGS Record Number : 147791
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : STRUM, NAOMI
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 21
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N2819
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654573
 Longitude : -87.604330
 Last Date in Agency List : 2022-11-21

Map Id: 104
 Direction: E
 Distance: 0.282 mi., 1487 ft.
 Elevation: 433 ft.
 Relative: Higher

Site Name : 16101035670000-10101
 37.665886, -87.575225
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41865281
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101035670000

Map Id: 104
 Direction: E
 Distance: 0.282 mi., 1487 ft.
 Elevation: 433 ft.
 Relative: Higher

Site Name : 16101035670000-10101
 37.665886, -87.575225
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41865281
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

KGS Record Number : 10101
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 440.0
 County : HENDERSON
 Farm Name : TILLMAN, W J
 Operator : TOTEM PETROLEUM CO
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 42561
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.665886
 Longitude : -87.575225
 Last Date in Agency List : 2022-11-21

Map Id: 105
 Direction: SSW
 Distance: 0.282 mi., 1489 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 20000
 37.651142, -87.595174
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41870012
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 20000
 Completion Date : 1945-09-10
 Plugged Date : N/R
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : WISE, C B
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 3B
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1796.0
 Plot Symbol : Wells completed as oil (including abandoned producers)

Map Id: 105
 Direction: SSW
 Distance: 0.282 mi., 1489 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 20000
 37.651142, -87.595174
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41870012
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651142
Longitude :	-87.595174
Last Date in Agency List :	2022-11-21

Map Id: V106
 Direction: SW
 Distance: 0.283 mi., 1492 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 2018761
 37.651636, -87.600182
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41861774
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018761
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	430.0
County :	HENDERSON
Farm Name :	WISE B-5
Operator :	ASHLAND OIL & REF CO
Well Number :	5
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1870.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651636
Longitude :	-87.600182
Last Date in Agency List :	2022-11-21

Map Id: 107
 Direction: SE
 Distance: 0.289 mi., 1527 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101054760000-10075
 37.656195, -87.584723
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41756682
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101054760000
KGS Record Number :	10075
Completion Date :	1980-05-30
Plugged Date :	1980-05-30
Surface Elevation :	429.0
County :	HENDERSON
Farm Name :	WELSON, E V
Operator :	BIG BASIN OIL CO, INC
Well Number :	2
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	38354
Measure :	0
Vertical :	2650.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.656195
Longitude :	-87.584723
Last Date in Agency List :	2022-11-21

Map Id: 108
 Direction: ESE
 Distance: 0.289 mi., 1528 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 16101013870000-2018914
 37.655646, -87.577781
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41715404
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101013870000
KGS Record Number :	2018914
Completion Date :	1980-03-07
Plugged Date :	N/R
Surface Elevation :	402.0
County :	HENDERSON
Farm Name :	WELDON, E V
Operator :	J P & R OIL COMPANY
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	37466
Measure :	0
Vertical :	2576.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.655646

Map Id: 108
 Direction: ESE
 Distance: 0.289 mi., 1528 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 16101013870000-2018914
 37.655646, -87.577781
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41715404
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.577781
 Last Date in Agency List : 2022-11-21

Map Id: U109
 Direction: SE
 Distance: 0.289 mi., 1528 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 16101030110000-10102
 37.655811, -87.579888
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41746698
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101030110000
 KGS Record Number : 10102
 Completion Date : 1980-05-15
 Plugged Date : N/R
 Surface Elevation : 418.0
 County : HENDERSON
 Farm Name : WELDON, E V
 Operator : TURNER, CHARLES LEWIS
 Well Number : 1
 Total Depth Formation : 337MSSPL
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 38117
 Measure : 0
 Vertical : 2570.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655811
 Longitude : -87.579888
 Last Date in Agency List : 2022-11-21

Map Id: 110
 Direction: SSE
 Distance: 0.290 mi., 1532 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 16101047600000-10071
 37.656854, -87.588108
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41920132
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047600000
 KGS Record Number : 10071
 Completion Date : 1981-06-11

Map Id: 110
 Direction: SSE
 Distance: 0.290 mi., 1532 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 1610104760000-10071
 37.656854, -87.588108
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41920132
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1981-06-11
 Surface Elevation : 417.0
 County : HENDERSON
 Farm Name : BOOK, ELSIE
 Operator : ROSEWOOD WATERFLOOD, INC
 Well Number : 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 43406
 Measure : 0
 Vertical : 2650.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.656854
 Longitude : -87.588108
 Last Date in Agency List : 2022-11-21

Map Id: 111
 Direction: NNW
 Distance: 0.291 mi., 1539 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 16101002710000-22925
 37.67651, -87.593446
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41890792
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101002710000
 KGS Record Number : 22925
 Completion Date : 1982-03-06
 Plugged Date : N/R
 Surface Elevation : 421.0
 County : HENDERSON
 Farm Name : WALKER, THORNTON
 Operator : GRAVISS EXPLORATION & DEV
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 47497
 Measure : 0
 Vertical : 2575.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.676510
 Longitude : -87.593446
 Last Date in Agency List : 2022-11-21

Map Id: V112
 Direction: SW
 Distance: 0.299 mi., 1579 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101074330000-2018732
 37.651499, -87.600547
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41770454
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101074330000
KGS Record Number :	2018732
Completion Date :	1943-05-12
Plugged Date :	N/R
Surface Elevation :	534.0
County :	HENDERSON
Farm Name :	STRUM, LEE
Operator :	BROWNING, ILEY
Well Number :	1
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N18408
Measure :	0
Vertical :	1976.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651499
Longitude :	-87.600547
Last Date in Agency List :	2022-11-21

Map Id: W113
 Direction: WSW
 Distance: 0.301 mi., 1591 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 16101052930000-2018744
 37.656359, -87.605156
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41842381
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101052930000
KGS Record Number :	2018744
Completion Date :	1962-01-12
Plugged Date :	N/R
Surface Elevation :	435.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	ASHLAND OIL CO
Well Number :	26
Total Depth Formation :	332MSSPU
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	5426
Measure :	0
Vertical :	1851.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.656359

Map Id: W113
 Direction: WSW
 Distance: 0.301 mi., 1591 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 16101052930000-2018744
 37.656359, -87.605156
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41842381
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.605156
 Last Date in Agency List : 2022-11-21

Map Id: W114
 Direction: WSW
 Distance: 0.305 mi., 1611 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 2018743
 37.656359, -87.605225
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41722401
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018743
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : STRUM
 Operator : BROWNING
 Well Number : 23
 Total Depth Formation : 332MSSPU
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 1873.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.656359
 Longitude : -87.605225
 Last Date in Agency List : 2022-11-21

Map Id: X115
 Direction: ENE
 Distance: 0.305 mi., 1612 ft.
 Elevation: 472 ft.
 Relative: Higher

Site Name : 16101063060000-107540
 37.667203, -87.583687
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41888586
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101063060000
 KGS Record Number : 107540
 Completion Date : 1968-08-02

Map Id: X115
 Direction: ENE
 Distance: 0.305 mi., 1612 ft.
 Elevation: 472 ft.
 Relative: Higher

Site Name : 16101063060000-107540
 37.667203, -87.583687
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41888586
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1968-08-02
 Surface Elevation : 468.0
 County : HENDERSON
 Farm Name : NORRIS, AARON
 Operator : MARHILL OIL & GAS CO
 Well Number : 1
 Total Depth Formation : 333SGVW
 Deepest Pay : 000
 Well Classification : Extension (outpost) well
 Result : Dry & abandoned
 Permit : 21282
 Measure : 0
 Vertical : 2677.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.667203
 Longitude : -87.583687
 Last Date in Agency List : 2022-11-21

Map Id: T116
 Direction: S
 Distance: 0.313 mi., 1652 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 16101008420000-147661
 37.651834, -87.59276
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41733192
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008420000
 KGS Record Number : 147661
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : WISE, C B (NORTHEAST POOLE UTS UNIT)
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 3K-B
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1064W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651834

Map Id: T116
 Direction: S
 Distance: 0.313 mi., 1652 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 16101008420000-147661
 37.651834, -87.59276
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41733192
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.592760
 Last Date in Agency List : 2022-11-21

Map Id: Y117
 Direction: SW
 Distance: 0.316 mi., 1667 ft.
 Elevation: 433 ft.
 Relative: Lower

Site Name : 16101008290000-147652
 37.651693, -87.6016
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41903385
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008290000
 KGS Record Number : 147652
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : WISE, C B (NORTHEAST POOLE LTS UNIT)
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 5
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1273W
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651693
 Longitude : -87.601600
 Last Date in Agency List : 2022-11-21

Map Id: 118
 Direction: E
 Distance: 0.319 mi., 1685 ft.
 Elevation: 451 ft.
 Relative: Higher

Site Name : 16101018710000-48444
 37.660256, -87.570647
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41925831
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101018710000
 KGS Record Number : 48444
 Completion Date : 1952-01-16
 Plugged Date : 1952-01-22
 Surface Elevation : 453.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : CARTER OIL CO
 Well Number : 2
 Total Depth Formation : 332GLCD
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 2751WF
 Measure : 0
 Vertical : 2075.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660256
 Longitude : -87.570647
 Last Date in Agency List : 2022-11-21

Map Id: 119
 Direction: SE
 Distance: 0.320 mi., 1688 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 00000713
 37.6556, -87.582787
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18611681
EPA ID: N/R

WELLS - KY

AKGWA Number : 00000713
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1987-06-03
 Status : ACTIVE
 Driller Certification Number : 0023
 Driller Name : Romuald Eckols
 Owner Business Name : N/R
 Owner Name : Darrell Rerisinger
 Primary Use : DOMESTIC - SINGLE HOUSEHOLD
 Quadrangle : Robards
 Surface Elevation (Ft) : 424
 Depth to Bedrock (Ft) : 12
 Total Depth (Ft) : 80
 Static Water Level (Ft) : 38
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.655600
 Longitude : -87.582787
 Scanned Document : [Click here for hyperlink provided by the agency.](#)

Map Id: 119
 Direction: SE
 Distance: 0.320 mi., 1688 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 00000713
 37.6556, -87.582787
 KY
Database(s) : [WELLS - KY] (*cont.*)

Envirosite ID: 18611681
EPA ID: N/R

WELLS - KY (*cont.*)

Last Date in Agency List : 2017-12-01

Map Id: 120
 Direction: NNW
 Distance: 0.320 mi., 1688 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101013350000-108163
 37.677145, -87.59576
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41766379
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101013350000
KGS Record Number :	108163
Completion Date :	1967-12-16
Plugged Date :	2006-03-30
Surface Elevation :	420.0
County :	HENDERSON
Farm Name :	LIGGETT, CARSON & VIRBLE
Operator :	YOUNGBLOOD, MORRIS P
Well Number :	4
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	20131
Measure :	0
Vertical :	2580.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.677145
Longitude :	-87.595760
Last Date in Agency List :	2022-11-21

Map Id: 121
 Direction: ESE
 Distance: 0.320 mi., 1689 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 16101054770000-10103
 37.655399, -87.574619
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41734899
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101054770000
KGS Record Number :	10103
Completion Date :	N/R
Plugged Date :	N/R

Map Id: 121
 Direction: ESE
 Distance: 0.320 mi., 1689 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 16101054770000-10103
 37.655399, -87.574619
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41734899
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Surface Elevation : 413.0
 County : HENDERSON
 Farm Name : WELDON, E V
 Operator : TURNER, CHARLES L
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 39122
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655399
 Longitude : -87.574619
 Last Date in Agency List : 2022-11-21

Map Id: Y122
 Direction: SW
 Distance: 0.320 mi., 1690 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 16101041880000-104546
 37.65169, -87.601736
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41774158
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041880000
 KGS Record Number : 104546
 Completion Date : 1946-07-20
 Plugged Date : 1991-08-26
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : WISE, C B 'B'
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 6
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : 1274W
 Measure : 0
 Vertical : 1861.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651690

Map Id: Y122
 Direction: SW
 Distance: 0.320 mi., 1690 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 16101041880000-104546
 37.65169, -87.601736
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41774158
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.601736
 Last Date in Agency List : 2022-11-21

Map Id: 123
 Direction: ESE
 Distance: 0.334 mi., 1765 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 16101066940000-48368
 37.657321, -87.571303
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41757335
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101066940000
 KGS Record Number : 48368
 Completion Date : 1952-02-03
 Plugged Date : N/R
 Surface Elevation : 445.0
 County : HENDERSON
 Farm Name : ROYSTER, V A
 Operator : TULEY & CARTER
 Well Number : 2
 Total Depth Formation : 332HDBG
 Deepest Pay : 332HDBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 2605WF
 Measure : 0
 Vertical : 1999.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657321
 Longitude : -87.571303
 Last Date in Agency List : 2022-11-21

Map Id: 124
 Direction: S
 Distance: 0.342 mi., 1808 ft.
 Elevation: 408 ft.
 Relative: Lower

Site Name : 16101008770000-147666
 37.654164, -87.590679
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41876965
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008770000
 KGS Record Number : 147666
 Completion Date : N/R

Map Id: 124
 Direction: S
 Distance: 0.342 mi., 1808 ft.
 Elevation: 408 ft.
 Relative: Lower

Site Name : 16101008770000-147666
 37.654164, -87.590679
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41876965
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	EBLEN HEIRS (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	3
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1074W
Measure :	0
Vertical :	0.0
 Plot Symbol :	 Newly permitted locations or historic wells for which completion data are not available in the KGS database
 Bore Type :	 Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654164
Longitude :	-87.590679
Last Date in Agency List :	2022-11-21

Map Id: Z125
 Direction: S
 Distance: 0.347 mi., 1833 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 135025
 37.652584, -87.591287
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41859533
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	135025
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	410.0
County :	HENDERSON
Farm Name :	EBLIN HEIRS
Operator :	ASHLAND OIL & REFINING CO
Well Number :	3
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N/R
Measure :	0
Vertical :	0.0
 Plot Symbol :	 Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: Z125
 Direction: S
 Distance: 0.347 mi., 1833 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 135025
 37.652584, -87.591287
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41859533
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652584
Longitude :	-87.591287
Last Date in Agency List :	2022-11-21

Map Id: Z126
 Direction: S
 Distance: 0.347 mi., 1833 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 20002
 37.652584, -87.591286
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41726550
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	20002
Completion Date :	1945-09-21
Plugged Date :	N/R
Surface Elevation :	410.0
County :	HENDERSON
Farm Name :	EBLEN, SARAH
Operator :	ASHLAND OIL & REFINING CO, INC
Well Number :	3
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1827.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652584
Longitude :	-87.591286
Last Date in Agency List :	2022-11-21

Map Id: 127
 Direction: SW
 Distance: 0.349 mi., 1845 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 2018741
 37.652514, -87.604016
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41726429
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018741
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	430.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	20
Total Depth Formation :	332MSSPU
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2289.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652514
Longitude :	-87.604016
Last Date in Agency List :	2022-11-21

Map Id: X128
 Direction: ENE
 Distance: 0.351 mi., 1852 ft.
 Elevation: 472 ft.
 Relative: Higher

Site Name : 16101026480000-2019430
 37.667808, -87.582997
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41733078
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101026480000
KGS Record Number :	2019430
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	427.0
County :	HENDERSON
Farm Name :	MCMULLIN, E
Operator :	STANFORD OIL COMPANY
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	4410WF
Measure :	0
Vertical :	2630.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.667808

Map Id: X128
 Direction: ENE
 Distance: 0.351 mi., 1852 ft.
 Elevation: 472 ft.
 Relative: Higher

Site Name : 16101026480000-2019430
 37.667808, -87.582997
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41733078
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.582997
 Last Date in Agency List : 2022-11-21

Map Id: 129
 Direction: WSW
 Distance: 0.355 mi., 1875 ft.
 Elevation: 463 ft.
 Relative: Higher

Site Name : 16101014670000-19923
 37.654464, -87.605743
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41921910
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101014670000
 KGS Record Number : 19923
 Completion Date : 1962-02-23
 Plugged Date : N/R
 Surface Elevation : 438.0
 County : HENDERSON
 Farm Name : STRUM, LEE
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 27
 Total Depth Formation : 332HDBG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : 5649
 Measure : 0
 Vertical : 2000.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654464
 Longitude : -87.605743
 Last Date in Agency List : 2022-11-21

Map Id: BA130
 Direction: S
 Distance: 0.362 mi., 1911 ft.
 Elevation: 405 ft.
 Relative: Lower

Site Name : 16101008400000-147674
 37.651964, -87.591459
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41769489
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008400000
 KGS Record Number : 147674
 Completion Date : N/R

Map Id: BA130
 Direction: S
 Distance: 0.362 mi., 1911 ft.
 Elevation: 405 ft.
 Relative: Lower

Site Name : 16101008400000-147674
 37.651964, -87.591459
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41769489
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	WISE, C B (NORTHEAST POOLE UTS UNIT)
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	1-B
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1005W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651964
Longitude :	-87.591459
Last Date in Agency List :	2022-11-21

Map Id: BB131
 Direction: NW
 Distance: 0.364 mi., 1923 ft.
 Elevation: 437 ft.
 Relative: Higher

Site Name : 108520
 37.676648, -87.60312
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41848766
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	108520
Completion Date :	1948-10-12
Plugged Date :	N/R
Surface Elevation :	444.0
County :	HENDERSON
Farm Name :	DENTON
Operator :	CARTER OIL CO
Well Number :	1
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	1864.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.676648

Map Id: BB131
 Direction: NW
 Distance: 0.364 mi., 1923 ft.
 Elevation: 437 ft.
 Relative: Higher

Site Name : 108520
 37.676648, -87.60312
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41848766
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.603120
 Last Date in Agency List : 2022-11-21

Map Id: 132
 Direction: WNW
 Distance: 0.366 mi., 1934 ft.
 Elevation: 444 ft.
 Relative: Higher

Site Name : 100329
 37.671515, -87.611495
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41843647
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 100329
 Completion Date : 1947-07-12
 Plugged Date : N/R
 Surface Elevation : 447.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 2
 Total Depth Formation : 333STLS
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2712.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.671515
 Longitude : -87.611495
 Last Date in Agency List : 2022-11-21

Map Id: 133
 Direction: E
 Distance: 0.373 mi., 1972 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101051580000-10099
 37.665886, -87.571683
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41748380
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051580000
 KGS Record Number : 10099
 Completion Date : 1952-02-25

Map Id: 133
 Direction: E
 Distance: 0.373 mi., 1972 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101051580000-10099
 37.665886, -87.571683
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41748380
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1952-02-27
 Surface Elevation : 443.0
 County : HENDERSON
 Farm Name : ROYSTER, V A
 Operator : TULEY & CARTER
 Well Number : 4
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Deeper pool test
 Result : Dry & abandoned
 Permit : 2607WF
 Measure : 0
 Vertical : 2649.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.665886
 Longitude : -87.571683
 Last Date in Agency List : 2022-11-21

Map Id: 134
 Direction: NNE
 Distance: 0.376 mi., 1987 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 16101063980000-67975
 37.673712, -87.587523
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41854465
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101063980000
 KGS Record Number : 67975
 Completion Date : 1951-11-24
 Plugged Date : 1951-11-24
 Surface Elevation : 432.0
 County : HENDERSON
 Farm Name : POOLE, TURNER
 Operator : O'NEAL, C E & CO ET AL
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 2392WF
 Measure : 0
 Vertical : 2683.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.673712
 Longitude : -87.587523
 Last Date in Agency List : 2022-11-21

Map Id: 135
 Direction: SSW
 Distance: 0.380 mi., 2006 ft.
 Elevation: 420 ft.
 Relative: Lower

Site Name : 16101014450000-106684
 37.649741, -87.59483
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41920944
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101014450000
KGS Record Number :	106684
Completion Date :	1961-12-09
Plugged Date :	N/R
Surface Elevation :	422.0
County :	HENDERSON
Farm Name :	GALLOWAY & WISE
Operator :	ASHLAND OIL & REFINING CO, INC
Well Number :	4
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Development well
Result :	Water injection
Permit :	5180
Measure :	0
Vertical :	1818.0
Plot Symbol :	Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.649741
Longitude :	-87.594830
Last Date in Agency List :	2022-11-21

Map Id: 136
 Direction: ESE
 Distance: 0.381 mi., 2014 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 16101066830000-48369
 37.658529, -87.569784
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41752356
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101066830000
KGS Record Number :	48369
Completion Date :	1951-11-10
Plugged Date :	N/R
Surface Elevation :	456.0
County :	HENDERSON
Farm Name :	ROYSTER, V A
Operator :	TULEY & CARTER
Well Number :	1
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	New pool wildcat
Result :	Oil producer
Permit :	2333WF
Measure :	0
Vertical :	2010.0

Map Id: 136
 Direction: ESE
 Distance: 0.381 mi., 2014 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 16101066830000-48369
 37.658529, -87.569784
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41752356
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.658529
Longitude :	-87.569784
Last Date in Agency List :	2022-11-21

Map Id: BA137
 Direction: S
 Distance: 0.386 mi., 2040 ft.
 Elevation: 405 ft.
 Relative: Lower

Site Name : 16101008410000-147660
 37.651554, -87.591289
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41748581
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101008410000
KGS Record Number :	147660
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	WISE, C B (NORTHEAST POOLE UTS UNIT)
Operator :	GEIGO CO, LLP
Well Number :	2-B
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	1048W
Measure :	0
Vertical :	0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651554
Longitude :	-87.591289
Last Date in Agency List :	2022-11-21

Map Id: BB138
 Direction: NW
 Distance: 0.386 mi., 2041 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 16101016520000-156262
 37.676993, -87.602431
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41722424
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101016520000
KGS Record Number :	156262
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	DENTON, JENNIE
Operator :	CARTER OIL CO
Well Number :	3
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	226W
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.676993
Longitude :	-87.602431
Last Date in Agency List :	2022-11-21

Map Id: 139
 Direction: S
 Distance: 0.390 mi., 2058 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 2018884
 37.650044, -87.593449
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41854800
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018884
Completion Date :	1945-09-05
Plugged Date :	N/R
Surface Elevation :	415.0
County :	HENDERSON
Farm Name :	WISE
Operator :	ASHLAND OIL CO
Well Number :	1-B
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1819.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: 139
 Direction: S
 Distance: 0.390 mi., 2058 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 2018884
 37.650044, -87.593449
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41854800
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.650044
Longitude :	-87.593449
Last Date in Agency List :	2022-11-21

Map Id: 140
 Direction: W
 Distance: 0.393 mi., 2076 ft.
 Elevation: 467 ft.
 Relative: Higher

Site Name : 106484
 37.663359, -87.608906
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41733156
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	106484
Completion Date :	1950-03-21
Plugged Date :	N/R
Surface Elevation :	469.0
County :	HENDERSON
Farm Name :	PRITCHETT, A G
Operator :	CARTER OIL CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	506WF
Measure :	0
Vertical :	2775.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.663359
Longitude :	-87.608906
Last Date in Agency List :	2022-11-21

Map Id: 141
 Direction: SSE
 Distance: 0.402 mi., 2124 ft.
 Elevation: 420 ft.
 Relative: Lower

Site Name : 00001571
 37.654766, -87.586953
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18613242
EPA ID: N/R

WELLS - KY

AKGWA Number : 00001571
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1986-01-09
 Status : ACTIVE
 Driller Certification Number : 0023
 Driller Name : Romuald Eckols
 Owner Business Name : N/R
 Owner Name : George Moss
 Primary Use : DOMESTIC - SINGLE HOUSEHOLD
 Quadrangle : Robards
 Surface Elevation (Ft) : 424
 Depth to Bedrock (Ft) : 12
 Total Depth (Ft) : 92
 Static Water Level (Ft) : 12
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.654766
 Longitude : -87.586953
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: BA142
 Direction: S
 Distance: 0.404 mi., 2132 ft.
 Elevation: 406 ft.
 Relative: Lower

Site Name : 16101041870000-105078
 37.651691, -87.590768
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41868414
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041870000
 KGS Record Number : 105078
 Completion Date : 1948-11-10
 Plugged Date : 1991-12-10
 Surface Elevation : 443.0
 County : HENDERSON
 Farm Name : EBLEN, JAMES HEIRS
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 2
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : 1075W
 Measure : 0
 Vertical : 1851.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651691
 Longitude : -87.590768

Map Id: BA142
 Direction: S
 Distance: 0.404 mi., 2132 ft.
 Elevation: 406 ft.
 Relative: Lower

Site Name : 16101041870000-105078
 37.651691, -87.590768
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41868414
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Last Date in Agency List : 2022-11-21

Map Id: BB143
 Direction: NW
 Distance: 0.407 mi., 2148 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 107670
 37.677471, -87.602256
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740402
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	107670
Completion Date :	1943-05-08
Plugged Date :	N/R
Surface Elevation :	442.0
County :	HENDERSON
Farm Name :	DENTON, JENNIE
Operator :	CARTER OIL CO
Well Number :	3
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2603.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.677471
Longitude :	-87.602256
Last Date in Agency List :	2022-11-21

Map Id: 144
 Direction: SSW
 Distance: 0.415 mi., 2194 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101041830000-19998
 37.649082, -87.595521
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41773688
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101041830000
KGS Record Number :	19998
Completion Date :	1945-09-26
Plugged Date :	1988-09-15

Map Id: 144
 Direction: SSW
 Distance: 0.415 mi., 2194 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101041830000-19998
 37.649082, -87.595521
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41773688
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Surface Elevation :	427.0
County :	HENDERSON
Farm Name :	GALLOWAY-WISE COMM
Operator :	ASHLAND OIL & REFINING CO, INC
Well Number :	3
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	1089W
Measure :	0
Vertical :	1822.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.649082
Longitude :	-87.595521
Last Date in Agency List :	2022-11-21

Map Id: 145
 Direction: ESE
 Distance: 0.419 mi., 2213 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 00001573
 37.654766, -87.572231
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18613244
EPA ID: N/R

WELLS - KY

AKGWA Number :	00001573
AI Number :	N/R
Public ID :	N/R
Construction Date :	1986-02-05
Status :	ACTIVE
Driller Certification Number :	0023
Driller Name :	Romuald Eckols
Owner Business Name :	N/R
Owner Name :	Jack Caton
Primary Use :	DOMESTIC - SINGLE HOUSEHOLD
Quadrangle :	Robards
Surface Elevation (Ft) :	450
Depth to Bedrock (Ft) :	4
Total Depth (Ft) :	80
Static Water Level (Ft) :	22
Regulatory Program :	N/R
County :	Henderson
Latitude :	37.654766
Longitude :	-87.572231
Scanned Document :	Click here for hyperlink provided by the agency.
Last Date in Agency List :	2017-12-01

Map Id: 146
 Direction: S
 Distance: 0.422 mi., 2230 ft.
 Elevation: 404 ft.
 Relative: Lower

Site Name : 16101069340000-128921
 37.65042, -87.591737
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41864967
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101069340000
KGS Record Number :	128921
Completion Date :	2005-09-15
Plugged Date :	N/R
Surface Elevation :	421.0
County :	HENDERSON
Farm Name :	WISE, C B HEIRS
Operator :	GEIGO CO, LLP
Well Number :	B2
Total Depth Formation :	333STLS
Deepest Pay :	333MCLK
Well Classification :	Unclassified
Result :	Oil producer
Permit :	97682
Measure :	0
Vertical :	2845.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.650420
Longitude :	-87.591737
Last Date in Agency List :	2022-11-21

Map Id: 147
 Direction: N
 Distance: 0.430 mi., 2271 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101063930000-108156 |
 16101063940000-108158
 37.678158, -87.591409
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41725828
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101063940000
KGS Record Number :	108158
Completion Date :	1961-08-11
Plugged Date :	1977-11-15
Surface Elevation :	415.0
County :	HENDERSON
Farm Name :	POOLE, NELLIE
Operator :	BURNS DRILLING CO
Well Number :	1A
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2468
Measure :	0
Vertical :	2559.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.

Map Id: 147
 Direction: N
 Distance: 0.430 mi., 2271 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101063930000-108156 |
 16101063940000-108158
 37.678158, -87.591409
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41725828
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Latitude :	37.678158
Longitude :	-87.591409
Last Date in Agency List :	2022-11-21
API Number :	16101063930000
KGS Record Number :	108156
Completion Date :	1956-06-28
Plugged Date :	1956-06-26
Surface Elevation :	415.0
County :	HENDERSON
Farm Name :	POOLE, NELLIE
Operator :	J B DRILLING CO, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	7818WF
Measure :	0
Vertical :	2565.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.678158
Longitude :	-87.591409
Last Date in Agency List :	2022-11-21

Map Id: 148
 Direction: ESE
 Distance: 0.433 mi., 2288 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101066950000-48367
 37.657046, -87.569438
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41758776
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101066950000
KGS Record Number :	48367
Completion Date :	1952-05-19
Plugged Date :	N/R
Surface Elevation :	450.0
County :	HENDERSON
Farm Name :	ROYSTER, V A
Operator :	TULEY & CARTER
Well Number :	3
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Development well
Result :	Oil producer
Permit :	2606WF

Map Id: 148
 Direction: ESE
 Distance: 0.433 mi., 2288 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101066950000-48367
 37.657046, -87.569438
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41758776
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Measure : 0
 Vertical : 2007.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657046
 Longitude : -87.569438
 Last Date in Agency List : 2022-11-21

Map Id: 149
 Direction: E
 Distance: 0.441 mi., 2330 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 16101047510000-48427
 37.660256, -87.568402
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41710220
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047510000
 KGS Record Number : 48427
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 444.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : CARTER OIL CO
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 2546WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660256
 Longitude : -87.568402
 Last Date in Agency List : 2022-11-21

Map Id: BA150
 Direction: S
 Distance: 0.446 mi., 2358 ft.
 Elevation: 405 ft.
 Relative: Lower

Site Name : 2018776
 37.651743, -87.5898
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41856111
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018776
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	407.0
County :	HENDERSON
Farm Name :	WISE, C B
Operator :	ASHLAND OIL & REFINING CO
Well Number :	B-2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N/R
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651743
Longitude :	-87.589800
Last Date in Agency List :	2022-11-21

Map Id: 151
 Direction: NNW
 Distance: 0.448 mi., 2365 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 16101003810000-107539
 37.679009, -87.595691
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41764216
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101003810000
KGS Record Number :	107539
Completion Date :	1943-04-20
Plugged Date :	2005-11-19
Surface Elevation :	419.0
County :	HENDERSON
Farm Name :	DENTON, JENNIE
Operator :	CARTER OIL CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	203W
Measure :	0
Vertical :	2570.0
Plot Symbol :	Wells completed as oil (including abandoned producers)

Map Id: 151
 Direction: NNW
 Distance: 0.448 mi., 2365 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 16101003810000-107539
 37.679009, -87.595691
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41764216
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.679009
Longitude :	-87.595691
Last Date in Agency List :	2022-11-21

Map Id: 152
 Direction: S
 Distance: 0.452 mi., 2389 ft.
 Elevation: 412 ft.
 Relative: Lower

Site Name : 19997
 37.648945, -87.593708
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41847670
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	19997
Completion Date :	1945-09-19
Plugged Date :	N/R
Surface Elevation :	415.0
County :	HENDERSON
Farm Name :	GALLOWAY-WISE COMM
Operator :	ASHLAND OIL & REFINING CO, INC
Well Number :	2
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1782.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.648945
Longitude :	-87.593708
Last Date in Agency List :	2022-11-21

Map Id: 153
 Direction: S
 Distance: 0.459 mi., 2426 ft.
 Elevation: 406 ft.
 Relative: Lower

Site Name : 16101030120000-2018759
 37.653009, -87.588833
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41851123
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101030120000
KGS Record Number :	2018759
Completion Date :	1980-05-22
Plugged Date :	N/R
Surface Elevation :	405.0
County :	HENDERSON
Farm Name :	WHITLEDGE, LOLA
Operator :	TURNER, CHARLES
Well Number :	1
Total Depth Formation :	333MCLKB
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	38231
Measure :	0
Vertical :	2613.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653009
Longitude :	-87.588833
Last Date in Agency List :	2022-11-21

Map Id: 154
 Direction: NW
 Distance: 0.461 mi., 2435 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101022340000-107627
 37.677938, -87.60616
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41851161
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101022340000
KGS Record Number :	107627
Completion Date :	1975-11-26
Plugged Date :	N/R
Surface Elevation :	431.0
County :	HENDERSON
Farm Name :	SELLARS, IJ
Operator :	PEARSON, CHRIS
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	332BTHL
Well Classification :	Development well
Result :	Oil producer
Permit :	29962
Measure :	0
Vertical :	2592.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.677938

Map Id: 154
 Direction: NW
 Distance: 0.461 mi., 2435 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101022340000-107627
 37.677938, -87.60616
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41851161
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.606160
 Last Date in Agency List : 2022-11-21

Map Id: 155
 Direction: S
 Distance: 0.474 mi., 2502 ft.
 Elevation: 404 ft.
 Relative: Lower

Site Name : 2018762
 37.650977, -87.589835
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41864416
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018762
 Completion Date : 1944-11-07
 Plugged Date : N/R
 Surface Elevation : 406.0
 County : HENDERSON
 Farm Name : EAKIN
 Operator : SOHIO PETROLEUM CO
 Well Number : 4
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 1827.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.650977
 Longitude : -87.589835
 Last Date in Agency List : 2022-11-21

Map Id: 156
 Direction: ESE
 Distance: 0.474 mi., 2503 ft.
 Elevation: 446 ft.
 Relative: Higher

Site Name : 16101054740000-48366
 37.655179, -87.570129
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41851845
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101054740000
 KGS Record Number : 48366
 Completion Date : 1952-05-31

Map Id: 156
 Direction: ESE
 Distance: 0.474 mi., 2503 ft.
 Elevation: 446 ft.
 Relative: Higher

Site Name : 16101054740000-48366
 37.655179, -87.570129
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41851845
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 450.0
 County : HENDERSON
 Farm Name : WELDON, E V
 Operator : TULEY & CARTER
 Well Number : 1
 Total Depth Formation : 332HDBG
 Deepest Pay : 332HDBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 2905WF
 Measure : 0
 Vertical : 2002.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655179
 Longitude : -87.570129
 Last Date in Agency List : 2022-11-21

Map Id: 157
 Direction: SE
 Distance: 0.476 mi., 2515 ft.
 Elevation: 403 ft.
 Relative: Lower

Site Name : 16101030090000-2018973
 37.652927, -87.575433
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41871637
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101030090000
 KGS Record Number : 2018973
 Completion Date : 1980-07-14
 Plugged Date : N/R
 Surface Elevation : 405.0
 County : HENDERSON
 Farm Name : ROYSTER
 Operator : TURNER, CHARLES LEWIS
 Well Number : 2
 Total Depth Formation : 333MSSPM
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 38229
 Measure : 0
 Vertical : 2550.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.652927
 Longitude : -87.575433
 Last Date in Agency List : 2022-11-21

Map Id: 158
 Direction: SE
 Distance: 0.480 mi., 2535 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101030050000-2018968
 37.653064, -87.580233
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41886400
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101030050000
KGS Record Number :	2018968
Completion Date :	1980-06-12
Plugged Date :	N/R
Surface Elevation :	422.0
County :	HENDERSON
Farm Name :	EAKIN
Operator :	TURNER, CHARLES
Well Number :	1
Total Depth Formation :	333MSSPM
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	38116
Measure :	0
Vertical :	2642.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653064
Longitude :	-87.580233
Last Date in Agency List :	2022-11-21

Map Id: 159
 Direction: SE
 Distance: 0.484 mi., 2556 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 16101030100000-2018913
 37.652831, -87.577988
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41778500
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101030100000
KGS Record Number :	2018913
Completion Date :	1980-04-25
Plugged Date :	N/R
Surface Elevation :	413.0
County :	HENDERSON
Farm Name :	ROYSTER, J H
Operator :	TURNER, CHARLES LEWIS
Well Number :	1
Total Depth Formation :	333MCLKB
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	37857
Measure :	0
Vertical :	2550.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652831

Map Id: 159
 Direction: SE
 Distance: 0.484 mi., 2556 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 16101030100000-2018913
 37.652831, -87.577988
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41778500
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.577988
 Last Date in Agency List : 2022-11-21

Map Id: 160
 Direction: WNW
 Distance: 0.488 mi., 2576 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 16101004680000-22926
 37.673594, -87.612856
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41905854
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101004680000
 KGS Record Number : 22926
 Completion Date : 1983-03-17
 Plugged Date : 2009-06-01
 Surface Elevation : 452.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 4
 Total Depth Formation : 333SGVV
 Deepest Pay : 333OHAR
 Well Classification : Development well
 Result : Oil producer
 Permit : 52942
 Measure : 0
 Vertical : 2550.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.673594
 Longitude : -87.612856
 Last Date in Agency List : 2022-11-21

Map Id: 161
 Direction: NNE
 Distance: 0.497 mi., 2623 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101063960000-108155
 37.677609, -87.588006
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41716341
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101063960000
 KGS Record Number : 108155
 Completion Date : 1962-08-01

Map Id: 161
 Direction: NNE
 Distance: 0.497 mi., 2623 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101063960000-108155
 37.677609, -87.588006
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41716341
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1962-08-01
 Surface Elevation : 423.0
 County : HENDERSON
 Farm Name : POOLE, NELLIE
 Operator : BURNS DRILLING CO
 Well Number : 3
 Total Depth Formation : 333SGVW
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 6963
 Measure : 0
 Vertical : 2583.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.677609
 Longitude : -87.588006
 Last Date in Agency List : 2022-11-21

Map Id: 162
 Direction: WNW
 Distance: 0.498 mi., 2628 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101036940000-30738
 37.670636, -87.614072
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41730802
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101036940000
 KGS Record Number : 30738
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 427.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 3
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 52944
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)

Map Id: 162
 Direction: WNW
 Distance: 0.498 mi., 2628 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101036940000-30738
 37.670636, -87.614072
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41730802
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Latitude : 37.670636
 Longitude : -87.614072
 Last Date in Agency List : 2022-11-21

Map Id: 163
 Direction: ESE
 Distance: 0.498 mi., 2629 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101014210000-48355 |
 16101016390000-48445
 37.658145, -87.567711
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41875639
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101016390000
 KGS Record Number : 48445
 Completion Date : 1951-12-30
 Plugged Date : 1952-01-07
 Surface Elevation : 430.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : CARTER OIL CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Deeper pool test
 Result : Dry & abandoned
 Permit : 2520WF
 Measure : 0
 Vertical : 2656.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.658145
 Longitude : -87.567711
 Last Date in Agency List : 2022-11-21

API Number : 16101014210000
 KGS Record Number : 48355
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 430.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : KENNARD OIL CO, INC
 Well Number : 5(7)
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 4702WF

Map Id: 163
 Direction: ESE
 Distance: 0.498 mi., 2629 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101014210000-48355 |
 16101016390000-48445
 37.658145, -87.567711
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41875639
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.658145
 Longitude : -87.567711
 Last Date in Agency List : 2022-11-21

Map Id: 164
 Direction: ESE
 Distance: 0.499 mi., 2638 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101051540000-48360
 37.653476, -87.572063
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41900836
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051540000
 KGS Record Number : 48360
 Completion Date : 1952-05-08
 Plugged Date : N/R
 Surface Elevation : 442.0
 County : HENDERSON
 Farm Name : ROYSTER, J H
 Operator : TULEY, CARTER, & IGLEHART DRLG CO
 Well Number : 2
 Total Depth Formation : 332HDBG
 Deepest Pay : 332HDBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 2832WF
 Measure : 0
 Vertical : 1996.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.653476
 Longitude : -87.572063
 Last Date in Agency List : 2022-11-21

Map Id: 165
 Direction: S
 Distance: 0.508 mi., 2683 ft.
 Elevation: 402 ft.
 Relative: Lower

Site Name : 16101041820000-19996
 37.649014, -87.591457
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41879815
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041820000
 KGS Record Number : 19996
 Completion Date : 1945-04-18
 Plugged Date : 1988-11-28
 Surface Elevation : 408.0
 County : HENDERSON
 Farm Name : GALLOWAY-WISE COMM
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : 1
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : 832W
 Measure : 0
 Vertical : 1815.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.649014
 Longitude : -87.591457
 Last Date in Agency List : 2022-11-21

Map Id: 166
 Direction: WNW
 Distance: 0.511 mi., 2700 ft.
 Elevation: 437 ft.
 Relative: Higher

Site Name : 16101005120000-22928
 37.675324, -87.612159
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740272
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101005120000
 KGS Record Number : 22928
 Completion Date : 1983-03-07
 Plugged Date : N/R
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 5
 Total Depth Formation : 333SGVV
 Deepest Pay : 333OHAR
 Well Classification : Development well
 Result : Oil producer
 Permit : 54305
 Measure : 0
 Vertical : 2535.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.675324

Map Id: 166
Direction: WNW
Distance: 0.511 mi., 2700 ft.
Elevation: 437 ft.
Relative: Higher

Site Name : 16101005120000-22928
37.675324, -87.612159
KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41740272
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.612159
Last Date in Agency List : 2022-11-21

Map Id: 167
Direction: ESE
Distance: 0.519 mi., 2739 ft.
Elevation: 430 ft.
Relative: Lower

Site Name : 16101019880000-48358
37.65647, -87.568057
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41886347
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101019880000
KGS Record Number : 48358
Completion Date : 1952-07-23
Plugged Date : N/R
Surface Elevation : 430.0
County : HENDERSON
Farm Name : BLUE, J L
Operator : LOVELACE & KENNARD OIL CO, INC
Well Number : 2(4)
Total Depth Formation : 332HDBG
Deepest Pay : 332HDBG
Well Classification : Development well
Result : Oil producer
Permit : 2992WF
Measure : 0
Vertical : 1979.0
Plot Symbol : Wells completed as oil (including abandoned producers)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.656470
Longitude : -87.568057
Last Date in Agency List : 2022-11-21

Map Id: 168
Direction: W
Distance: 0.519 mi., 2742 ft.
Elevation: 462 ft.
Relative: Higher

Site Name : 16101002140000-10079 |
16101035570000-10078
37.665199, -87.613914
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41732322
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101002140000
KGS Record Number : 10079

Map Id: 168
 Direction: W
 Distance: 0.519 mi., 2742 ft.
 Elevation: 462 ft.
 Relative: Higher

Site Name : 16101002140000-10079 |
 16101035570000-10078
 37.665199, -87.613914
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41732322
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Completion Date :	1982-03-24
Plugged Date :	N/R
Surface Elevation :	462.0
County :	HENDERSON
Farm Name :	KOONCE, RALPH
Operator :	FLOYD E WILLIAMS EQUIPMENT CO
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Extension (outpost) well
Result :	Oil producer
Permit :	45874
Measure :	0
Vertical :	2679.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.665199
Longitude :	-87.613914
Last Date in Agency List :	2022-11-21
API Number :	16101035570000
KGS Record Number :	10078
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	462.0
County :	HENDERSON
Farm Name :	KOONCE, RALPH
Operator :	FLOYD E WILLIAMS EQUIPMENT CO
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Terminated (permit expired or cancelled)
Permit :	40192
Measure :	0
Vertical :	0.0
Plot Symbol :	Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.665199
Longitude :	-87.613914
Last Date in Agency List :	2022-11-21

Map Id: 169
 Direction: ESE
 Distance: 0.522 mi., 2757 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101047480000-10094
 37.657283, -87.567563
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41766965
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047480000
 KGS Record Number : 10094
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 428.0
 County : HENDERSON
 Farm Name : BLUE, CLAUDIA
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 49052
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657283
 Longitude : -87.567563
 Last Date in Agency List : 2022-11-21

Map Id: 170
 Direction: SSE
 Distance: 0.523 mi., 2764 ft.
 Elevation: 412 ft.
 Relative: Lower

Site Name : 16101030130000-10076
 37.65279, -87.587694
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41778424
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101030130000
 KGS Record Number : 10076
 Completion Date : 1981-01-15
 Plugged Date : N/R
 Surface Elevation : 411.0
 County : HENDERSON
 Farm Name : WHITLEDGE, LOLA
 Operator : TURNER, CHARLES L
 Well Number : 2
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 38334
 Measure : 0
 Vertical : 2561.0

Map Id: 170
 Direction: SSE
 Distance: 0.523 mi., 2764 ft.
 Elevation: 412 ft.
 Relative: Lower

Site Name : 16101030130000-10076
 37.65279, -87.587694
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41778424
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652790
Longitude :	-87.587694
Last Date in Agency List :	2022-11-21

Map Id: 171
 Direction: N
 Distance: 0.536 mi., 2828 ft.
 Elevation: 412 ft.
 Relative: Lower

Site Name : 16101063950000-108157
 37.680012, -87.592841
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41896483
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101063950000
KGS Record Number :	108157
Completion Date :	1962-01-25
Plugged Date :	1977-11-20
Surface Elevation :	413.0
County :	HENDERSON
Farm Name :	POOLE, NELLIE
Operator :	BURNS DRILLING CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	5110
Measure :	0
Vertical :	2570.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.680012
Longitude :	-87.592841
Last Date in Agency List :	2022-11-21

Map Id: 172
 Direction: SSE
 Distance: 0.542 mi., 2863 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101030140000-10077
 37.652515, -87.584723
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41889610
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101030140000
KGS Record Number :	10077
Completion Date :	1981-01-08
Plugged Date :	N/R
Surface Elevation :	411.0
County :	HENDERSON
Farm Name :	WHITLEDGE, LOLA
Operator :	TURNER, CHARLES L
Well Number :	3
Total Depth Formation :	333MCLK
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	38333
Measure :	0
Vertical :	2565.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652515
Longitude :	-87.584723
Last Date in Agency List :	2022-11-21

Map Id: BC173
 Direction: WSW
 Distance: 0.545 mi., 2877 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 16101009990000-147677
 37.654433, -87.60934
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41858750
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101009990000
KGS Record Number :	147677
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	STRUM, NAOMI
Operator :	COUNTRYMARK ENERGY RESOURCES, LLC
Well Number :	15
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N2818
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: BC173
 Direction: WSW
 Distance: 0.545 mi., 2877 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 16101009990000-147677
 37.654433, -87.60934
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41858750
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654433
Longitude :	-87.609340
Last Date in Agency List :	2022-11-21

Map Id: BD174
 Direction: WNW
 Distance: 0.546 mi., 2882 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 16101023140000-100321
 37.676922, -87.611392
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41756328
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101023140000
KGS Record Number :	100321
Completion Date :	1951-12-13
Plugged Date :	1993-09-03
Surface Elevation :	429.0
County :	HENDERSON
Farm Name :	SELLARS, IJ
Operator :	CARTER OIL CO
Well Number :	9
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2472WF
Measure :	0
Vertical :	2624.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.676922
Longitude :	-87.611392
Last Date in Agency List :	2022-11-21

Map Id: 175
 Direction: WNW
 Distance: 0.547 mi., 2890 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101056400000-107665
 37.669593, -87.615123
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41864970
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101056400000
 KGS Record Number : 107665
 Completion Date : 1968-07-21
 Plugged Date : 1968-07-21
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : DENTON, TOM
 Operator : YOUNGBLOOD, MORRIS P
 Well Number : 1A
 Total Depth Formation : 332BTHL
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 20399
 Measure : 0
 Vertical : 2400.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669593
 Longitude : -87.615123
 Last Date in Agency List : 2022-11-21

Map Id: 176
 Direction: WNW
 Distance: 0.548 mi., 2895 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 16101023120000-100326
 37.672202, -87.614708
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41720223
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101023120000
 KGS Record Number : 100326
 Completion Date : 1951-09-27
 Plugged Date : 2001-04-17
 Surface Elevation : 428.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 5
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2207WF
 Measure : 0
 Vertical : 2515.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.672202

Map Id: 176
 Direction: WNW
 Distance: 0.548 mi., 2895 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 16101023120000-100326
 37.672202, -87.614708
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41720223
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.614708
 Last Date in Agency List : 2022-11-21

Map Id: 177
 Direction: WSW
 Distance: 0.554 mi., 2923 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 90040
 37.656304, -87.609769
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41769680
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 90040
 Completion Date : 1944-09-27
 Plugged Date : N/R
 Surface Elevation : 453.0
 County : HENDERSON
 Farm Name : STRUM, LEE
 Operator : BROWNING, ILEY B
 Well Number : 14
 Total Depth Formation : 333STLS
 Deepest Pay : 000
 Well Classification : Development well
 Result : Location (new permit issued or insufficient data)
 Permit : N/R
 Measure : 0
 Vertical : 2892.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.656304
 Longitude : -87.609769
 Last Date in Agency List : 2022-11-21

Map Id: 178
 Direction: W
 Distance: 0.554 mi., 2928 ft.
 Elevation: 457 ft.
 Relative: Higher

Site Name : 106485
 37.664238, -87.614018
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41741532
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	106485
Completion Date :	1945-07-02
Plugged Date :	N/R
Surface Elevation :	456.0
County :	HENDERSON
Farm Name :	PRITCHETT, A G
Operator :	CARTER OIL CO
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2679.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.664238
Longitude :	-87.614018
Last Date in Agency List :	2022-11-21

Map Id: 179
 Direction: ESE
 Distance: 0.557 mi., 2942 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101051530000-48363
 37.653476, -87.570198
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41924762
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101051530000
KGS Record Number :	48363
Completion Date :	1952-04-09
Plugged Date :	N/R
Surface Elevation :	451.0
County :	HENDERSON
Farm Name :	ROYSTER, J H
Operator :	TULEY, CARTER, & IGLEHART DRLG CO
Well Number :	1
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Development well
Result :	Oil producer
Permit :	2755WF
Measure :	0
Vertical :	2005.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.653476

Map Id: 179
 Direction: ESE
 Distance: 0.557 mi., 2942 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101051530000-48363
 37.653476, -87.570198
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41924762
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.570198
 Last Date in Agency List : 2022-11-21

Map Id: 180
 Direction: E
 Distance: 0.559 mi., 2954 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 16101050190000-47629
 37.664239, -87.566502
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41843635
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101050190000
 KGS Record Number : 47629
 Completion Date : 1952-07-26
 Plugged Date : 1952-07-27
 Surface Elevation : 459.0
 County : HENDERSON
 Farm Name : CULVER, BUD
 Operator : BUCHMAN, JOHN B ET AL
 Well Number : 1
 Total Depth Formation : 333SGVW
 Deepest Pay : 000
 Well Classification : Extension (outpost) well
 Result : Dry & abandoned
 Permit : 3048WF
 Measure : 0
 Vertical : 2682.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.664239
 Longitude : -87.566502
 Last Date in Agency List : 2022-11-21

Map Id: 181
 Direction: NW
 Distance: 0.564 mi., 2979 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 00004731
 37.679765, -87.603067
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18618709
EPA ID: N/R

WELLS - KY

AKGWA Number : 00004731
 AI Number : N/R
 Public ID : N/R

Map Id: 181
 Direction: NW
 Distance: 0.564 mi., 2979 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 00004731
 37.679765, -87.603067
 KY
Database(s) : [WELLS - KY] (**cont.**)

Envirosite ID: 18618709
EPA ID: N/R

WELLS - KY (cont.)

Construction Date : 1987-10-06
 Status : ACTIVE
 Driller Certification Number : 0173
 Driller Name : George Neely
 Owner Business Name : N/R
 Owner Name : Mike Roberts
 Primary Use : DOMESTIC - SINGLE HOUSEHOLD
 Quadrangle : Robards
 Surface Elevation (Ft) : 435
 Depth to Bedrock (Ft) : 18
 Total Depth (Ft) : 120
 Static Water Level (Ft) : 40
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.679765
 Longitude : -87.603067
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: BD182
 Direction: WNW
 Distance: 0.568 mi., 3000 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 16101051860000-38401
 37.677466, -87.611274
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41871461
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051860000
 KGS Record Number : 38401
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 8
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 55666
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.677466

Map Id: BD182
 Direction: WNW
 Distance: 0.568 mi., 3000 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 16101051860000-38401
 37.677466, -87.611274
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41871461
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.611274
 Last Date in Agency List : 2022-11-21

Map Id: BE183
 Direction: ESE
 Distance: 0.568 mi., 3000 ft.
 Elevation: 435 ft.
 Relative: Higher

Site Name : 16101047470000-22880
 37.655371, -87.567797
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41841527
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047470000
 KGS Record Number : 22880
 Completion Date : 1983-06-01
 Plugged Date : 1983-06-01
 Surface Elevation : 432.0
 County : HENDERSON
 Farm Name : BLUE, CLAUDIA
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 1
 Total Depth Formation : 333SGVW
 Deepest Pay : 000
 Well Classification : Extension (outpost) well
 Result : Dry & abandoned
 Permit : 49051
 Measure : 0
 Vertical : 2550.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655371
 Longitude : -87.567797
 Last Date in Agency List : 2022-11-21

Map Id: 184
 Direction: S
 Distance: 0.569 mi., 3004 ft.
 Elevation: 402 ft.
 Relative: Lower

Site Name : 19995
 37.649563, -87.589039
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41772624
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 19995
 Completion Date : 1944-12-13

Map Id: 184
 Direction: S
 Distance: 0.569 mi., 3004 ft.
 Elevation: 402 ft.
 Relative: Lower

Site Name : 19995
 37.649563, -87.589039
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41772624
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 404.0
 County : HENDERSON
 Farm Name : EAKIN, EDWARD
 Operator : SOHIO PETROLEUM CO
 Well Number : 3
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1815.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.649563
 Longitude : -87.589039
 Last Date in Agency List : 2022-11-21

Map Id: 185
 Direction: SSW
 Distance: 0.578 mi., 3051 ft.
 Elevation: 405 ft.
 Relative: Lower

Site Name : 2018885
 37.646885, -87.594311
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41845865
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018885
 Completion Date : 1945-01-24
 Plugged Date : N/R
 Surface Elevation : 408.0
 County : HENDERSON
 Farm Name : WISE, C B
 Operator : ASHLAND OIL & REFINING CO
 Well Number : 2
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 1826.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.646885
 Longitude : -87.594311
 Last Date in Agency List : 2022-11-21

Map Id: BE186
 Direction: ESE
 Distance: 0.580 mi., 3066 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 48359
 37.654575, -87.568228
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41858791
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	48359
Completion Date :	1952-07-15
Plugged Date :	1958-01-03
Surface Elevation :	445.0
County :	HENDERSON
Farm Name :	BLUE, J L
Operator :	KENNARD & LOVELACE OIL CO, INC
Well Number :	1(3)
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1997.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654575
Longitude :	-87.568228
Last Date in Agency List :	2022-11-21

Map Id: 187
 Direction: W
 Distance: 0.583 mi., 3078 ft.
 Elevation: 436 ft.
 Relative: Higher

Site Name : 2018731
 37.665885, -87.615468
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41718987
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018731
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	456.0
County :	HENDERSON
Farm Name :	PRITCHETT, A G
Operator :	SKILES OIL CORP
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	2705.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.665885

Map Id: 187
 Direction: W
 Distance: 0.583 mi., 3078 ft.
 Elevation: 436 ft.
 Relative: Higher

Site Name : 2018731
 37.665885, -87.615468
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41718987
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.615468
 Last Date in Agency List : 2022-11-21

Map Id: 188
 Direction: ESE
 Distance: 0.585 mi., 3092 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101013440000-48362
 37.652515, -87.571027
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41738899
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101013440000
 KGS Record Number : 48362
 Completion Date : 1953-01-14
 Plugged Date : N/R
 Surface Elevation : 421.0
 County : HENDERSON
 Farm Name : ROYSTER, J H
 Operator : TULEY, CARTER, & IGLEHEART DRLG CO
 Well Number : 4
 Total Depth Formation : 332HDBG
 Deepest Pay : 332HDBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 4150WF
 Measure : 0
 Vertical : 1974.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.652515
 Longitude : -87.571027
 Last Date in Agency List : 2022-11-21

Map Id: BC189
 Direction: WSW
 Distance: 0.587 mi., 3100 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 19808
 37.654368, -87.610114
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41736604
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 19808
 Completion Date : 1944-11-01

Map Id: BC189
 Direction: WSW
 Distance: 0.587 mi., 3100 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 19808
 37.654368, -87.610114
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41736604
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 458.0
 County : HENDERSON
 Farm Name : STRUM, LEE
 Operator : BROWNING, ILEY B
 Well Number : 15
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1889.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654368
 Longitude : -87.610114
 Last Date in Agency List : 2022-11-21

Map Id: BF190
 Direction: WNW
 Distance: 0.588 mi., 3107 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101045780000-156318
 37.673983, -87.614671
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41856413
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101045780000
 KGS Record Number : 156318
 Completion Date : 1951-09-12
 Plugged Date : N/R
 Surface Elevation : 445.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 4
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N12819
 Measure : 0
 Vertical : 2621.0

 Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.673983

Map Id: BF190
 Direction: WNW
 Distance: 0.588 mi., 3107 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101045780000-156318
 37.673983, -87.614671
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41856413
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.614671
 Last Date in Agency List : 2022-11-21

Map Id: BF191
 Direction: WNW
 Distance: 0.589 mi., 3109 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101066460000-100327
 37.673987, -87.614674
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41773602
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101066460000
 KGS Record Number : 100327
 Completion Date : 1951-09-12
 Plugged Date : N/R
 Surface Elevation : 445.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 4
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2151WF
 Measure : 0
 Vertical : 2621.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.673987
 Longitude : -87.614674
 Last Date in Agency List : 2022-11-21

Map Id: BE192
 Direction: ESE
 Distance: 0.591 mi., 3119 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101047490000-48453
 37.655261, -87.567399
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41892561
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047490000
 KGS Record Number : 48453
 Completion Date : 1980-01-25

Map Id: BE192
 Direction: ESE
 Distance: 0.591 mi., 3119 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101047490000-48453
 37.655261, -87.567399
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41892561
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1980-01-25
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : ATLAS OPERATING CO, INC
 Well Number : 1
 Total Depth Formation : 333SGVW
 Deepest Pay : 000
 Well Classification : Deeper pool test
 Result : Dry & abandoned
 Permit : 37187
 Measure : 0
 Vertical : 2647.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655261
 Longitude : -87.567399
 Last Date in Agency List : 2022-11-21

Map Id: BF193
 Direction: WNW
 Distance: 0.591 mi., 3120 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 16101051960000-10233
 37.673973, -87.614725
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41924417
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051960000
 KGS Record Number : 10233
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 439.0
 County : HENDERSON
 Farm Name : SELLARS, I J
 Operator : PEARSON, CHRIS
 Well Number : 27A
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 29889
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)

Map Id: BF193
 Direction: WNW
 Distance: 0.591 mi., 3120 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 16101051960000-10233
 37.673973, -87.614725
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41924417
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Latitude : 37.673973
 Longitude : -87.614725
 Last Date in Agency List : 2022-11-21

Map Id: 194
 Direction: W
 Distance: 0.595 mi., 3142 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 16101036950000-30739
 37.668656, -87.616104
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41855827
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101036950000
 KGS Record Number : 30739
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 443.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 52972
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.668656
 Longitude : -87.616104
 Last Date in Agency List : 2022-11-21

Map Id: BE195
 Direction: ESE
 Distance: 0.596 mi., 3148 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101019010000-48446
 37.654671, -87.567779
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41880849
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101019010000
 KGS Record Number : 48446
 Completion Date : 1961-12-02
 Plugged Date : N/R
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : N V DUNCAN DRILLING CO
 Well Number : 1A
 Total Depth Formation : 332HDBG
 Deepest Pay : 332HDBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 5080
 Measure : 0
 Vertical : 1988.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654671
 Longitude : -87.567779
 Last Date in Agency List : 2022-11-21

Map Id: 196
 Direction: SSE
 Distance: 0.596 mi., 3150 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 2018763
 37.650812, -87.587314
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41843510
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018763
 Completion Date : 1944-11-20
 Plugged Date : N/R
 Surface Elevation : 409.0
 County : HENDERSON
 Farm Name : EAKINS, ED
 Operator : SOHIO PETRO CO
 Well Number : 5
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 1841.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.650812

Map Id: 196
 Direction: SSE
 Distance: 0.596 mi., 3150 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 2018763
 37.650812, -87.587314
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41843510
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.587314
 Last Date in Agency List : 2022-11-21

Map Id: 197
 Direction: ESE
 Distance: 0.597 mi., 3155 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101047520000-48357
 37.656772, -87.566329
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41714440
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047520000
 KGS Record Number : 48357
 Completion Date : 1952-07-31
 Plugged Date : N/R
 Surface Elevation : 422.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : KENNARD & LOVELACE OIL CO, INC
 Well Number : 3(5)
 Total Depth Formation : 332HDBG
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 3072WF
 Measure : 0
 Vertical : 1993.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.656772
 Longitude : -87.566329
 Last Date in Agency List : 2022-11-21

Map Id: 198
 Direction: WSW
 Distance: 0.599 mi., 3161 ft.
 Elevation: 451 ft.
 Relative: Higher

Site Name : 135021
 37.652927, -87.609768
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41895865
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 135021
 Completion Date : N/R

Map Id: 198
 Direction: WSW
 Distance: 0.599 mi., 3161 ft.
 Elevation: 451 ft.
 Relative: Higher

Site Name : 135021
 37.652927, -87.609768
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41895865
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	1985-04-30
Surface Elevation :	446.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	16
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N/R
Measure :	0
Vertical :	0.0
 Plot Symbol :	 Newly permitted locations or historic wells for which completion data are not available in the KGS database
 Bore Type :	 Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652927
Longitude :	-87.609768
Last Date in Agency List :	2022-11-21

Map Id: 199
 Direction: SE
 Distance: 0.604 mi., 3188 ft.
 Elevation: 430 ft.
 Relative: Lower

Site Name : 16101030060000-2018969
 37.651279, -87.580406
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41759296
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101030060000
KGS Record Number :	2018969
Completion Date :	1980-08-02
Plugged Date :	N/R
Surface Elevation :	432.0
County :	HENDERSON
Farm Name :	EAKIN
Operator :	TURNER, CHARLES
Well Number :	2
Total Depth Formation :	333MSSPM
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	38230
Measure :	0
Vertical :	2595.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651279

Map Id: 199
 Direction: SE
 Distance: 0.604 mi., 3188 ft.
 Elevation: 430 ft.
 Relative: Lower

Site Name : 16101030060000-2018969
 37.651279, -87.580406
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41759296
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.580406
 Last Date in Agency List : 2022-11-21

Map Id: 200
 Direction: N
 Distance: 0.608 mi., 3210 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 16101063920000-108159
 37.68008, -87.588905
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41749252
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101063920000
 KGS Record Number : 108159
 Completion Date : 1961-01-18
 Plugged Date : 1978-01-28
 Surface Elevation : 410.0
 County : HENDERSON
 Farm Name : POOLE, NELLIE
 Operator : BURNS DRILLING CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 2000
 Measure : 0
 Vertical : 2553.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.680080
 Longitude : -87.588905
 Last Date in Agency List : 2022-11-21

Map Id: 201
 Direction: SW
 Distance: 0.609 mi., 3215 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 2018872
 37.648121, -87.604498
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41852146
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018872
 Completion Date : 1944-10-02

Map Id: 201
 Direction: SW
 Distance: 0.609 mi., 3215 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 2018872
 37.648121, -87.604498
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41852146
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1944-10-01
 Surface Elevation : 426.0
 County : HENDERSON
 Farm Name : GALLOWAY HEIRS
 Operator : ASHLAND OIL & REFINING CO
 Well Number : 2
 Total Depth Formation : 332PCEKL
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2292.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.648121
 Longitude : -87.604498
 Last Date in Agency List : 2022-11-21

Map Id: 202
 Direction: SE
 Distance: 0.609 mi., 3219 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101030070000-2018971
 37.651005, -87.577988
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41768297
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101030070000
 KGS Record Number : 2018971
 Completion Date : 1980-04-15
 Plugged Date : N/R
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : MOORE, COSBY
 Operator : TURNER, C L
 Well Number : 3
 Total Depth Formation : 333MSSPM
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 37754
 Measure : 0
 Vertical : 2565.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651005
 Longitude : -87.577988
 Last Date in Agency List : 2022-11-21

Map Id: 203
 Direction: S
 Distance: 0.610 mi., 3222 ft.
 Elevation: 407 ft.
 Relative: Lower

Site Name : 16101072370000-2018887
 37.647023, -87.592066
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41856277
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101072370000
KGS Record Number :	2018887
Completion Date :	1945-02-07
Plugged Date :	N/R
Surface Elevation :	411.0
County :	HENDERSON
Farm Name :	WISE, BOYD
Operator :	ASHLAND OIL & REFINING CO
Well Number :	1
Total Depth Formation :	332GLND
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N16665
Measure :	0
Vertical :	1828.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.647023
Longitude :	-87.592066
Last Date in Agency List :	2022-11-21

Map Id: 204
 Direction: N
 Distance: 0.612 mi., 3234 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 16101040680000-10232
 37.680685, -87.590425
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41841233
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101040680000
KGS Record Number :	10232
Completion Date :	1999-04-28
Plugged Date :	N/R
Surface Elevation :	411.0
County :	HENDERSON
Farm Name :	WALKER, THORNTON
Operator :	ROBERTS PETROLEUM, INC
Well Number :	1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Terminated (permit expired or cancelled)
Permit :	90258
Measure :	0
Vertical :	250.0

Map Id: 204
 Direction: N
 Distance: 0.612 mi., 3234 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 16101040680000-10232
 37.680685, -87.590425
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41841233
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.680685
Longitude : -87.590425
Last Date in Agency List : 2022-11-21

Map Id: BG205
 Direction: S
 Distance: 0.621 mi., 3282 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 16101008390000-147655
 37.647844, -87.589969
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41905277
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008390000
KGS Record Number : 147655
Completion Date : N/R
Plugged Date : N/R
Surface Elevation : 0.0
County : HENDERSON
Farm Name : WISE, C B (NORTHEAST POOLE UTS UNIT)
Operator : COUNTRYMARK ENERGY RESOURCES, LLC
Well Number : 1-A
Total Depth Formation : 000
Deepest Pay : 000
Well Classification : Unclassified
Result : Location (new permit issued or insufficient data)
Permit : 806W
Measure : 0
Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.647844
Longitude : -87.589969
Last Date in Agency List : 2022-11-21

Map Id: BH206
 Direction: WNW
 Distance: 0.629 mi., 3320 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 16101004720000-108165
 37.670458, -87.616504
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41752264
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101004720000
KGS Record Number :	108165
Completion Date :	1975-11-15
Plugged Date :	2009-06-05
Surface Elevation :	438.0
County :	HENDERSON
Farm Name :	SELLERS, IJ
Operator :	PEARSON, CHRIS
Well Number :	25A
Total Depth Formation :	333SGVV
Deepest Pay :	332RNLT
Well Classification :	Development well
Result :	Oil producer
Permit :	29888
Measure :	0
Vertical :	2530.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.670458
Longitude :	-87.616504
Last Date in Agency List :	2022-11-21

Map Id: 207
 Direction: WNW
 Distance: 0.630 mi., 3327 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101023110000-100328
 37.675634, -87.614432
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41718236
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101023110000
KGS Record Number :	100328
Completion Date :	1951-08-22
Plugged Date :	N/R
Surface Elevation :	442.0
County :	HENDERSON
Farm Name :	SELLARS, IJ
Operator :	CARTER OIL CO
Well Number :	3
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2077WF
Measure :	0
Vertical :	2530.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.675634

Map Id: 207
 Direction: WNW
 Distance: 0.630 mi., 3327 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101023110000-100328
 37.675634, -87.614432
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41718236
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.614432
 Last Date in Agency List : 2022-11-21

Map Id: 208
 Direction: W
 Distance: 0.635 mi., 3351 ft.
 Elevation: 459 ft.
 Relative: Higher

Site Name : 00007668
 37.66671, -87.616678
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18602794
EPA ID: N/R

WELLS - KY

AKGWA Number : 00007668
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1991-06-07
 Status : N/R
 Driller Certification Number : 0112
 Driller Name : Travis Combs
 Owner Business Name : N/R
 Owner Name : Phyllis Buckman
 Primary Use : N/R
 Quadrangle : Robards
 Surface Elevation (Ft) : 417
 Depth to Bedrock (Ft) : 0
 Total Depth (Ft) : N/R
 Static Water Level (Ft) : 0
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.666710
 Longitude : -87.616678
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: 209
 Direction: ESE
 Distance: 0.637 mi., 3364 ft.
 Elevation: 444 ft.
 Relative: Higher

Site Name : 48364
 37.653476, -87.568056
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41921466
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 48364
 Completion Date : 1952-09-05
 Plugged Date : N/R

Map Id: 209
 Direction: ESE
 Distance: 0.637 mi., 3364 ft.
 Elevation: 444 ft.
 Relative: Higher

Site Name : 48364
 37.653476, -87.568056
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41921466
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Surface Elevation : 455.0
 County : HENDERSON
 Farm Name : ROYSTER, J H
 Operator : TULEY, CARTER, & IGLEHEART DRLG CO
 Well Number : 3
 Total Depth Formation : 332HDBG
 Deepest Pay : 332HDBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 4005WF
 Measure : 0
 Vertical : 2007.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.653476
 Longitude : -87.568056
 Last Date in Agency List : 2022-11-21

Map Id: BG210
 Direction: S
 Distance: 0.638 mi., 3369 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 16101072360000-137377
 37.647314, -87.590389
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41897335
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101072360000
 KGS Record Number : 137377
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 401.0
 County : HENDERSON
 Farm Name : RAY, W. & B., ET AL
 Operator : CONTINENTAL RESOURCES, INC
 Well Number : 1H
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 105173
 Measure : 0
 Vertical : 0.0

 Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Map Id: BG210
 Direction: S
 Distance: 0.638 mi., 3369 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 16101072360000-137377
 37.647314, -87.590389
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41897335
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : A horizontal well bore potentially including multiple laterals and pinnate deviations from those laterals

KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.647314
Longitude : -87.590389
Last Date in Agency List : 2022-11-21

Map Id: 211
 Direction: ENE
 Distance: 0.640 mi., 3382 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 16101025780000-2019429
 37.671515, -87.576778
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41903504
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101025780000
KGS Record Number : 2019429
Completion Date : 1956-05-03
Plugged Date : N/R
Surface Elevation : 0.0
County : HENDERSON
Farm Name : DENTON HEIRS
Operator : SLAGTER PRODUCING COMPANY
Well Number : 1
Total Depth Formation : 333MCLK
Deepest Pay : 000
Well Classification : Unclassified
Result : Dry & abandoned
Permit : 7600WF
Measure : 0
Vertical : 2692.0
Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.671515
Longitude : -87.576778
Last Date in Agency List : 2022-11-21

Map Id: BH212
 Direction: WNW
 Distance: 0.644 mi., 3402 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 100324 | 100325
 37.670032, -87.61685
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41759936
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 100324
 Completion Date : 1957-01-03
 Plugged Date : N/R
 Surface Elevation : 444.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 6
 Total Depth Formation : 332RNLT
 Deepest Pay : 332RNLT
 Well Classification : Development well
 Result : Oil producer
 Permit : 2263WF
 Measure : 0
 Vertical : 2490.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.670032
 Longitude : -87.616850
 Last Date in Agency List : 2022-11-21

API Number : N/R
 KGS Record Number : 100325
 Completion Date : 1951-10-17
 Plugged Date : N/R
 Surface Elevation : 444.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 6
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2263WF
 Measure : 0
 Vertical : 2634.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.670032
 Longitude : -87.616850
 Last Date in Agency List : 2022-11-21

Map Id: 213
 Direction: W
 Distance: 0.646 mi., 3409 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 16101000750000-10080
 37.665061, -87.616332
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41904879
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101000750000
KGS Record Number :	10080
Completion Date :	1980-12-18
Plugged Date :	N/R
Surface Elevation :	450.0
County :	HENDERSON
Farm Name :	KOONCE, RALPH
Operator :	FLOYD E WILLIAMS EQUIPMENT CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	333OHAR
Well Classification :	Extension (outpost) well
Result :	Oil producer
Permit :	40193
Measure :	0
Vertical :	2705.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.665061
Longitude :	-87.616332
Last Date in Agency List :	2022-11-21

Map Id: BG214
 Direction: S
 Distance: 0.652 mi., 3445 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 16101072240000-106685
 37.647325, -87.589903
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41891730
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101072240000
KGS Record Number :	106685
Completion Date :	1944-11-08
Plugged Date :	N/R
Surface Elevation :	402.0
County :	HENDERSON
Farm Name :	EAKIN, E
Operator :	SOHIO PETROLEUM CO
Well Number :	2
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N16239
Measure :	0
Vertical :	1814.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.647325

Map Id: BG214
 Direction: S
 Distance: 0.652 mi., 3445 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 16101072240000-106685
 37.647325, -87.589903
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41891730
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.589903
 Last Date in Agency List : 2022-11-21

Map Id: 215
 Direction: ESE
 Distance: 0.655 mi., 3461 ft.
 Elevation: 420 ft.
 Relative: Lower

Site Name : 16101021130000-48356
 37.654849, -87.566329
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41716145
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101021130000
 KGS Record Number : 48356
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 419.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : KENNARD OIL CO, INC
 Well Number : 4(6)
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 3073WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654849
 Longitude : -87.566329
 Last Date in Agency List : 2022-11-21

Map Id: 216
 Direction: WNW
 Distance: 0.659 mi., 3478 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101005130000-22931
 37.677449, -87.613554
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41841670
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101005130000
KGS Record Number :	22931
Completion Date :	1983-03-31
Plugged Date :	N/R
Surface Elevation :	428.0
County :	HENDERSON
Farm Name :	SELLARS
Operator :	HERCULES PETROLEUM CO, INC
Well Number :	6
Total Depth Formation :	333SGVV
Deepest Pay :	333OHAR
Well Classification :	Development well
Result :	Oil producer
Permit :	54322
Measure :	0
Vertical :	2533.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.677449
Longitude :	-87.613554
Last Date in Agency List :	2022-11-21

Map Id: 217
 Direction: WSW
 Distance: 0.666 mi., 3518 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 19807
 37.65526, -87.611754
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41874517
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	19807
Completion Date :	1944-09-20
Plugged Date :	2004-04-13
Surface Elevation :	464.0
County :	HENDERSON
Farm Name :	STRUM, LEE
Operator :	BROWNING, ILEY B
Well Number :	12
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N2817
Measure :	0
Vertical :	1901.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.655260

Map Id: 217
 Direction: WSW
 Distance: 0.666 mi., 3518 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 19807
 37.65526, -87.611754
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41874517
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.611754
 Last Date in Agency List : 2022-11-21

Map Id: BI218
 Direction: SSE
 Distance: 0.669 mi., 3532 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 16101043860000-10072
 37.650709, -87.585888
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41752176
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101043860000
 KGS Record Number : 10072
 Completion Date : 1981-05-04
 Plugged Date : N/R
 Surface Elevation : 416.0
 County : HENDERSON
 Farm Name : EAKINS, ET AL
 Operator : HAR-KEN OIL CO
 Well Number : 6
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 42507
 Measure : 0
 Vertical : 2597.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.650709
 Longitude : -87.585888
 Last Date in Agency List : 2022-11-21

Map Id: BI219
 Direction: SSE
 Distance: 0.669 mi., 3532 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 16101072620000-137956
 37.650704, -87.585889
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41772970
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101072620000
 KGS Record Number : 137956
 Completion Date : 2009-08-10

Map Id: BI219
 Direction: SSE
 Distance: 0.669 mi., 3532 ft.
 Elevation: 414 ft.
 Relative: Lower

Site Name : 16101072620000-137956
 37.650704, -87.585889
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41772970
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	N/R
Surface Elevation :	415.0
County :	HENDERSON
Farm Name :	RAY, W & B ET AL
Operator :	CONTINENTAL RESOURCES, INC
Well Number :	6
Total Depth Formation :	333SGVW
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	105636
Measure :	0
Vertical :	2660.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.650704
Longitude :	-87.585889
Last Date in Agency List :	2022-11-21

Map Id: 220
 Direction: ESE
 Distance: 0.670 mi., 3536 ft.
 Elevation: 445 ft.
 Relative: Higher

Site Name : 16101029690000-2018974
 37.651935, -87.569353
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41865109
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101029690000
KGS Record Number :	2018974
Completion Date :	1952-09-13
Plugged Date :	N/R
Surface Elevation :	422.0
County :	HENDERSON
Farm Name :	ROYSTER, E A
Operator :	THE TEXAS CO
Well Number :	1
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Unclassified
Result :	Oil producer
Permit :	3092WF
Measure :	0
Vertical :	1976.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651935
Longitude :	-87.569353
Last Date in Agency List :	2022-11-21

Map Id: 221
 Direction: WNW
 Distance: 0.673 mi., 3553 ft.
 Elevation: 418 ft.
 Relative: Lower

Site Name : 16101066470000-46414
 37.672751, -87.616884
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41925907
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101066470000
 KGS Record Number : 46414
 Completion Date : 1951-09-17
 Plugged Date : N/R
 Surface Elevation : 419.0
 County : HENDERSON
 Farm Name : SIGHTS, RAY
 Operator : DELTA DRILLING CO
 Well Number : 3
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2152WF
 Measure : 0
 Vertical : 2558.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.672751
 Longitude : -87.616884
 Last Date in Agency List : 2022-11-21

Map Id: BJ222
 Direction: SE
 Distance: 0.687 mi., 3627 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101049650000-2018967
 37.650071, -87.580406
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41711781
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101049650000
 KGS Record Number : 2018967
 Completion Date : 1980-02-03
 Plugged Date : 1980-02-03
 Surface Elevation : 408.0
 County : HENDERSON
 Farm Name : COSBY-MOORE
 Operator : TURNER, CHARLES LEWIS
 Well Number : 2
 Total Depth Formation : 333MSSPM
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : 37260
 Measure : 0
 Vertical : 2615.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.650071

Map Id: BJ222
 Direction: SE
 Distance: 0.687 mi., 3627 ft.
 Elevation: 441 ft.
 Relative: Higher

Site Name : 16101049650000-2018967
 37.650071, -87.580406
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41711781
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.580406
 Last Date in Agency List : 2022-11-21

Map Id: 223
 Direction: NNE
 Distance: 0.690 mi., 3641 ft.
 Elevation: 426 ft.
 Relative: Lower

Site Name : 16101037630000-35354
 37.679119, -87.584932
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41856063
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101037630000
 KGS Record Number : 35354
 Completion Date : 1983-10-29
 Plugged Date : 1983-10-29
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : WALKER, THORNTON
 Operator : PHELPS L LAMBERT CO
 Well Number : 2
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Extension (outpost) well
 Result : Dry & abandoned
 Permit : 58601
 Measure : 0
 Vertical : 2625.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.679119
 Longitude : -87.584932
 Last Date in Agency List : 2022-11-21

Map Id: BK224
 Direction: SW
 Distance: 0.691 mi., 3649 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 2018874
 37.648206, -87.607238
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41899238
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018874
 Completion Date : 1945-11-21

Map Id: BK224
 Direction: SW
 Distance: 0.691 mi., 3649 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 2018874
 37.648206, -87.607238
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41899238
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 427.0
 County : HENDERSON
 Farm Name : GALLOWAY HEIRS COMM
 Operator : ASHLAND OIL CO
 Well Number : 3
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Unclassified
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1840.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.648206
 Longitude : -87.607238
 Last Date in Agency List : 2022-11-21

Map Id: 225
 Direction: W
 Distance: 0.692 mi., 3653 ft.
 Elevation: 459 ft.
 Relative: Higher

Site Name : 16101036960000-30740
 37.666679, -87.617731
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41920777
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101036960000
 KGS Record Number : 30740
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 460.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 53004
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)

Map Id: 225
Direction: W
Distance: 0.692 mi., 3653 ft.
Elevation: 459 ft.
Relative: Higher

Site Name : 16101036960000-30740
37.666679, -87.617731
KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41920777
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Latitude : 37.666679
Longitude : -87.617731
Last Date in Agency List : 2022-11-21

Map Id: BK226
Direction: SW
Distance: 0.693 mi., 3660 ft.
Elevation: 439 ft.
Relative: Higher

Site Name : 2018873
37.647983, -87.606916
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41891502
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
KGS Record Number : 2018873
Completion Date : 1945-09-23
Plugged Date : N/R
Surface Elevation : 437.0
County : HENDERSON
Farm Name : GALLOWAY
Operator : ASHLAND OIL & REFINIG CO
Well Number : 3
Total Depth Formation : 300PLZC
Deepest Pay : 000
Well Classification : Unclassified
Result : Dry & abandoned
Permit : N/R
Measure : 0
Vertical : 2657.0
Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.647983
Longitude : -87.606916
Last Date in Agency List : 2022-11-21

Map Id: 227
Direction: NW
Distance: 0.702 mi., 3707 ft.
Elevation: 420 ft.
Relative: Lower

Site Name : 16101051910000-100319
37.679806, -87.611495
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41865187
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051910000
KGS Record Number : 100319

Map Id: 227
 Direction: NW
 Distance: 0.702 mi., 3707 ft.
 Elevation: 420 ft.
 Relative: Lower

Site Name : 16101051910000-100319
 37.679806, -87.611495
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41865187
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Completion Date : 1952-01-15
 Plugged Date : N/R
 Surface Elevation : 424.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 11
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2547WF
 Measure : 0
 Vertical : 2608.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.679806
 Longitude : -87.611495
 Last Date in Agency List : 2022-11-21

Map Id: 228
 Direction: WNW
 Distance: 0.714 mi., 3770 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101066430000-46419
 37.674399, -87.616954
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41743089
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101066430000
 KGS Record Number : 46419
 Completion Date : 1951-08-21
 Plugged Date : N/R
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : DICKEY, E M (L)
 Operator : DELTA DRILLING CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2081WF
 Measure : 0
 Vertical : 2565.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.674399
 Longitude : -87.616954
 Last Date in Agency List : 2022-11-21

Map Id: 229
 Direction: NNE
 Distance: 0.722 mi., 3813 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 16101073820000-139564
 37.681043, -87.58688
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41880548
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101073820000
KGS Record Number :	139564
Completion Date :	2010-09-28
Plugged Date :	2013-11-19
Surface Elevation :	412.0
County :	HENDERSON
Farm Name :	CROWDER, ROBERT ET AL
Operator :	NALLY, JOSEPH L
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	332RNLT
Well Classification :	Unclassified
Result :	Oil producer
Permit :	107104
Measure :	0
Vertical :	2650.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.681043
Longitude :	-87.586880
Last Date in Agency List :	2022-11-21

Map Id: BL230
 Direction: S
 Distance: 0.726 mi., 3833 ft.
 Elevation: 401 ft.
 Relative: Lower

Site Name : 16101022180000-100448
 37.647251, -87.58789
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41906660
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101022180000
KGS Record Number :	100448
Completion Date :	1990-06-19
Plugged Date :	1990-06-19
Surface Elevation :	402.0
County :	HENDERSON
Farm Name :	EAKINS, ED HEIRS
Operator :	GEIGO CO
Well Number :	6
Total Depth Formation :	320PNLV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	79385
Measure :	0
Vertical :	640.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.647251

Map Id: BL230
 Direction: S
 Distance: 0.726 mi., 3833 ft.
 Elevation: 401 ft.
 Relative: Lower

Site Name : 16101022180000-100448
 37.647251, -87.58789
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41906660
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.587890
 Last Date in Agency List : 2022-11-21

Map Id: 231
 Direction: W
 Distance: 0.726 mi., 3836 ft.
 Elevation: 482 ft.
 Relative: Higher

Site Name : 2018730
 37.661629, -87.615555
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41853975
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018730
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : PRITCHETT, A G
 Operator : R & R OIL & GAS CO
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N/R
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.661629
 Longitude : -87.615555
 Last Date in Agency List : 2022-11-21

Map Id: BL232
 Direction: S
 Distance: 0.727 mi., 3840 ft.
 Elevation: 401 ft.
 Relative: Lower

Site Name : 16101041970000-19993
 37.647023, -87.588176
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41841810
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041970000
 KGS Record Number : 19993
 Completion Date : 1960-08-21
 Plugged Date : 1988-09-21
 Surface Elevation : 401.0
 County : HENDERSON
 Farm Name : EAKIN, EDWARD
 Operator : ASHLAND OIL & REFINING CO, INC
 Well Number : W1
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Service well, EPA Class II injection
 Result : Secondary recovery injection (Class II)
 Permit : 397
 Measure : 0
 Vertical : 1810.0

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.647023
 Longitude : -87.588176
 Last Date in Agency List : 2022-11-21

Map Id: BJ233
 Direction: SE
 Distance: 0.727 mi., 3841 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101000830000-10104
 37.649494, -87.580579
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41898068
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101000830000
 KGS Record Number : 10104
 Completion Date : 1980-12-16
 Plugged Date : N/R
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : EAKINS
 Operator : TURNECO, INC
 Well Number : 3
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 40746
 Measure : 0
 Vertical : 2720.0

Map Id: BJ233
 Direction: SE
 Distance: 0.727 mi., 3841 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101000830000-10104
 37.649494, -87.580579
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41898068
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.649494
Longitude :	-87.580579
Last Date in Agency List :	2022-11-21

Map Id: 234
 Direction: NW
 Distance: 0.729 mi., 3852 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101044330000-108147
 37.682003, -87.604467
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41849733
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101044330000
KGS Record Number :	108147
Completion Date :	1950-10-30
Plugged Date :	N/R
Surface Elevation :	437.0
County :	HENDERSON
Farm Name :	ROBARDS, WILL
Operator :	VYE & CHEATHAM
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Extension (outpost) well
Result :	Dry & abandoned
Permit :	1137WF
Measure :	0
Vertical :	2645.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.682003
Longitude :	-87.604467
Last Date in Agency List :	2022-11-21

Map Id: 235
 Direction: SSE
 Distance: 0.730 mi., 3857 ft.
 Elevation: 429 ft.
 Relative: Lower

Site Name : 16101001370000-10105
 37.649632, -87.582893
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41729946
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101001370000
KGS Record Number :	10105
Completion Date :	1981-06-24
Plugged Date :	N/R
Surface Elevation :	433.0
County :	HENDERSON
Farm Name :	EAKINS
Operator :	TURNECO, INC
Well Number :	5
Total Depth Formation :	333MCLK
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	43552
Measure :	0
Vertical :	2581.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.649632
Longitude :	-87.582893
Last Date in Agency List :	2022-11-21

Map Id: 236
 Direction: WNW
 Distance: 0.732 mi., 3865 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 16101051900000-100323
 37.678433, -87.614259
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41713157
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101051900000
KGS Record Number :	100323
Completion Date :	1951-11-08
Plugged Date :	N/R
Surface Elevation :	425.0
County :	HENDERSON
Farm Name :	SELLARS, IJ
Operator :	CARTER OIL CO
Well Number :	7
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2307WF
Measure :	0
Vertical :	2612.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.678433

Map Id: 236
 Direction: WNW
 Distance: 0.732 mi., 3865 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 1610105190000-100323
 37.678433, -87.614259
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41713157
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.614259
 Last Date in Agency List : 2022-11-21

Map Id: 237
 Direction: W
 Distance: 0.733 mi., 3872 ft.
 Elevation: 461 ft.
 Relative: Higher

Site Name : 100322 | 16101016630000-108372
 37.668357, -87.618646
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41730334
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	100322
Completion Date :	1951-11-26
Plugged Date :	2001-04-19
Surface Elevation :	463.0
County :	HENDERSON
Farm Name :	SELLARS, IJ
Operator :	CARTER OIL CO
Well Number :	8
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2416WF
Measure :	0
Vertical :	2645.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.668357
Longitude :	-87.618646
Last Date in Agency List :	2022-11-21

API Number :	16101016630000
KGS Record Number :	108372
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	463.0
County :	HENDERSON
Farm Name :	TUNNEL HILL UNIT (I J SELLARS)
Operator :	CARTER OIL CO
Well Number :	24W
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Service well, EPA Class II injection
Result :	Water injection
Permit :	198W9
Measure :	0
Vertical :	2645.0

Map Id: 237
 Direction: W
 Distance: 0.733 mi., 3872 ft.
 Elevation: 461 ft.
 Relative: Higher

Site Name : 100322 | 16101016630000-108372
 37.668357, -87.618646
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41730334
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.668357
 Longitude : -87.618646
 Last Date in Agency List : 2022-11-21

Map Id: BM238
 Direction: SE
 Distance: 0.734 mi., 3875 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101030080000-10107
 37.64922, -87.5783
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41857978
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101030080000
 KGS Record Number : 10107
 Completion Date : 1980-12-06
 Plugged Date : N/R
 Surface Elevation : 418.0
 County : HENDERSON
 Farm Name : MOORE, COSBY
 Operator : TURNER, CHARLES LEWIS
 Well Number : 4
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 39173
 Measure : 0
 Vertical : 2544.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.649220
 Longitude : -87.578300
 Last Date in Agency List : 2022-11-21

Map Id: BM239
Direction: SE
Distance: 0.735 mi., 3882 ft.
Elevation: 419 ft.
Relative: Lower

Site Name : 16101051400000-2018916
37.649165, -87.577817
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41893381
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051400000
KGS Record Number : 2018916
Completion Date : 1953-04-24
Plugged Date : N/R
Surface Elevation : 427.0
County : HENDERSON
Farm Name : ROYSTER, E A
Operator : IGLEHEART DRILLING CO, INC
Well Number : 1
Total Depth Formation : 000
Deepest Pay : 000
Well Classification : Unclassified
Result : Oil producer
Permit : 4631WF
Measure : 0
Vertical : 2551.0
Plot Symbol : Wells completed as oil (including abandoned producers)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.649165
Longitude : -87.577817
Last Date in Agency List : 2022-11-21

Map Id: 240
Direction: NW
Distance: 0.746 mi., 3941 ft.
Elevation: 413 ft.
Relative: Lower

Site Name : 108153 | 16101026430000-108152
37.681453, -87.609338
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41759114
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
KGS Record Number : 108153
Completion Date : 1951-12-26
Plugged Date : N/R
Surface Elevation : 416.0
County : HENDERSON
Farm Name : ROBARDS, J W
Operator : STANFORD OIL CO
Well Number : 1
Total Depth Formation : 333SGVV
Deepest Pay : 333MCLK
Well Classification : Development well
Result : Oil producer
Permit : N/R
Measure : 0
Vertical : 2494.0
Plot Symbol : Wells completed as oil (including abandoned producers)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.681453

Map Id: 240
 Direction: NW
 Distance: 0.746 mi., 3941 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 108153 | 16101026430000-108152
 37.681453, -87.609338
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41759114
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude :	-87.609338
Last Date in Agency List :	2022-11-21
API Number :	16101026430000
KGS Record Number :	108152
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	416.0
County :	HENDERSON
Farm Name :	ROBARDS, J W
Operator :	STANFORD OIL CO
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2726WF
Measure :	0
Vertical :	2504.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.681453
Longitude :	-87.609338
Last Date in Agency List :	2022-11-21

Map Id: BL241
 Direction: S
 Distance: 0.749 mi., 3955 ft.
 Elevation: 401 ft.
 Relative: Lower

Site Name : 19994
 37.647091, -87.587486
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740098
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	19994
Completion Date :	1944-12-31
Plugged Date :	1989-11-21
Surface Elevation :	403.0
County :	HENDERSON
Farm Name :	EAKIN, EDWARD
Operator :	SOHIO PETROLEUM CO
Well Number :	1
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N2722
Measure :	0
Vertical :	1825.0

Map Id: BL241
 Direction: S
 Distance: 0.749 mi., 3955 ft.
 Elevation: 401 ft.
 Relative: Lower

Site Name : 19994
 37.647091, -87.587486
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41740098
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.647091
Longitude :	-87.587486
Last Date in Agency List :	2022-11-21

Map Id: 242
 Direction: WNW
 Distance: 0.749 mi., 3956 ft.
 Elevation: 428 ft.
 Relative: Lower

Site Name : 16101038940000-36248
 37.672103, -87.618487
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41736337
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101038940000
KGS Record Number :	36248
Completion Date :	1983-05-05
Plugged Date :	1984-05-24
Surface Elevation :	426.0
County :	HENDERSON
Farm Name :	SIGHTS
Operator :	HERCULES PETROLEUM CO, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	55000
Measure :	0
Vertical :	2535.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672103
Longitude :	-87.618487
Last Date in Agency List :	2022-11-21

Map Id: 243
 Direction: S
 Distance: 0.752 mi., 3970 ft.
 Elevation: 396 ft.
 Relative: Lower

Site Name : 25468
 37.645457, -87.590248
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41870044
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	25468
Completion Date :	1944-11-01
Plugged Date :	1987-06-22
Surface Elevation :	403.0
County :	HENDERSON
Farm Name :	DIXON, N
Operator :	THE TEXAS CO
Well Number :	8
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1800.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.645457
Longitude :	-87.590248
Last Date in Agency List :	2022-11-21

Map Id: BN244
 Direction: S
 Distance: 0.754 mi., 3979 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 2018889
 37.644826, -87.591894
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41718679
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018889
Completion Date :	1944-11-29
Plugged Date :	1946-09-30
Surface Elevation :	404.0
County :	HENDERSON
Farm Name :	CRAVENS, R B
Operator :	ASHLAND OIL CO
Well Number :	1
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	N/R
Measure :	0
Vertical :	1815.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.644826

Map Id: BN244
 Direction: S
 Distance: 0.754 mi., 3979 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 2018889
 37.644826, -87.591894
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41718679
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.591894
 Last Date in Agency List : 2022-11-21

Map Id: 245
 Direction: NW
 Distance: 0.762 mi., 4026 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 16101005340000-30491
 37.679534, -87.613682
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41879171
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101005340000
 KGS Record Number : 30491
 Completion Date : 1983-04-26
 Plugged Date : 2007-05-15
 Surface Elevation : 412.0
 County : HENDERSON
 Farm Name : SELLARS
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 7
 Total Depth Formation : 333SGVV
 Deepest Pay : 333OHAR
 Well Classification : Service well, EPA Class II injection
 Result : Secondary recovery injection (Class II)
 Permit : 55207
 Measure : 0
 Vertical : 2526.0

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.679534
 Longitude : -87.613682
 Last Date in Agency List : 2022-11-21

Map Id: 246
 Direction: WNW
 Distance: 0.768 mi., 4056 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 1610107060000-46417
 37.676098, -87.616954
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41724420
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 1610107060000
 KGS Record Number : 46417
 Completion Date : 1951-07-22
 Plugged Date : N/R
 Surface Elevation : 427.0
 County : HENDERSON
 Farm Name : MELTON, MAURINE
 Operator : DELTA DRILLING CO
 Well Number : 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLK
 Well Classification : Extension (outpost) well
 Result : Oil producer
 Permit : 1903WF
 Measure : 0
 Vertical : 2615.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.676098
 Longitude : -87.616954
 Last Date in Agency List : 2022-11-21

Map Id: 247
 Direction: N
 Distance: 0.772 mi., 4074 ft.
 Elevation: 403 ft.
 Relative: Lower

Site Name : 16101015890000-108164
 37.682909, -87.589646
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41863603
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101015890000
 KGS Record Number : 108164
 Completion Date : 1961-02-04
 Plugged Date : N/R
 Surface Elevation : 406.0
 County : HENDERSON
 Farm Name : HUNTER, IRVIN
 Operator : BURNS DRILLING CO
 Well Number : 2
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2199
 Measure : 0
 Vertical : 2537.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.682909

Map Id: 247
 Direction: N
 Distance: 0.772 mi., 4074 ft.
 Elevation: 403 ft.
 Relative: Lower

Site Name : 16101015890000-108164
 37.682909, -87.589646
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41863603
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.589646
 Last Date in Agency List : 2022-11-21

Map Id: BN248
 Direction: S
 Distance: 0.773 mi., 4082 ft.
 Elevation: 400 ft.
 Relative: Lower

Site Name : 2018886
 37.644551, -87.591802
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41849751
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018886
 Completion Date : 1944-12-21
 Plugged Date : N/R
 Surface Elevation : 410.0
 County : HENDERSON
 Farm Name : WISE, C B
 Operator : ASHLAND OIL & REFINING CO
 Well Number : 1
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N/R
 Measure : 0
 Vertical : 1810.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.644551
 Longitude : -87.591802
 Last Date in Agency List : 2022-11-21

Map Id: 249
Direction: SSE
Distance: 0.773 mi., 4082 ft.
Elevation: 419 ft.
Relative: Lower

Site Name : 16233002730000-151479
37.649138, -87.584491
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41852372
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16233002730000
KGS Record Number : 151479
Completion Date : N/R
Plugged Date : N/R
Surface Elevation : 0.0
County : WEBSTER
Farm Name : EAST POOLE POOL UNIT (TR 4)
Operator : AN-CAR OIL CO, INC
Well Number : 2
Total Depth Formation : 000
Deepest Pay : 000
Well Classification : Unclassified
Result : Location (new permit issued or insufficient data)
Permit : N2375
Measure : 0
Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.649138
Longitude : -87.584491
Last Date in Agency List : 2022-11-21

Map Id: 250
Direction: ESE
Distance: 0.776 mi., 4100 ft.
Elevation: 454 ft.
Relative: Higher

Site Name : 16101013450000-48361
37.651211, -87.567365
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41731967
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101013450000
KGS Record Number : 48361
Completion Date : N/R
Plugged Date : N/R
Surface Elevation : 455.0
County : HENDERSON
Farm Name : ROYSTER, J H
Operator : IGLEHEART DRILLING CO
Well Number : 5
Total Depth Formation : 000
Deepest Pay : 000
Well Classification : Unclassified
Result : Location (new permit issued or insufficient data)
Permit : 4555WF
Measure : 0
Vertical : 0.0

Map Id: 250
 Direction: ESE
 Distance: 0.776 mi., 4100 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 16101013450000-48361
 37.651211, -87.567365
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41731967
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651211
 Longitude : -87.567365
 Last Date in Agency List : 2022-11-21

Map Id: 251
 Direction: NNW
 Distance: 0.777 mi., 4104 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 108118
 37.683925, -87.597176
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41756313
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 108118
 Completion Date : 1946-11-17
 Plugged Date : N/R
 Surface Elevation : 423.0
 County : HENDERSON
 Farm Name : CRENSHAW, R E
 Operator : CARTER OIL CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2675.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.683925
 Longitude : -87.597176
 Last Date in Agency List : 2022-11-21

Map Id: 252
 Direction: WNW
 Distance: 0.780 mi., 4116 ft.
 Elevation: 451 ft.
 Relative: Higher

Site Name : 16101066790000-46413
 37.670554, -87.619268
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41754419
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101066790000
KGS Record Number :	46413
Completion Date :	1951-10-22
Plugged Date :	N/R
Surface Elevation :	452.0
County :	HENDERSON
Farm Name :	SIGHTS, RAY
Operator :	DELTA DRILLING CO
Well Number :	4
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2297WF
Measure :	0
Vertical :	2587.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.670554
Longitude :	-87.619268
Last Date in Agency List :	2022-11-21

Map Id: 253
 Direction: W
 Distance: 0.785 mi., 4143 ft.
 Elevation: 484 ft.
 Relative: Higher

Site Name : 3003181
 37.664073, -87.618577
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41886812
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	3003181
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	OVERFIELD, C.
Operator :	CARTER OIL
Well Number :	1
Total Depth Formation :	N/R
Deepest Pay :	N/R
Well Classification :	N/R
Result :	N/R
Permit :	N/R
Measure :	0
Vertical :	0.0
Plot Symbol :	N/R
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.664073

Map Id: 254
 Direction: W
 Distance: 0.785 mi., 4143 ft.
 Elevation: 484 ft.
 Relative: Higher

Site Name : 3003181
 37.664073, -87.618577
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41886812
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.618577
 Last Date in Agency List : 2022-11-21

Map Id: 254
 Direction: WSW
 Distance: 0.788 mi., 4160 ft.
 Elevation: 470 ft.
 Relative: Higher

Site Name : 16101044980000-2018736
 37.654739, -87.613915
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41720052
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101044980000
 KGS Record Number : 2018736
 Completion Date : 1944-07-06
 Plugged Date : 2000-04-12
 Surface Elevation : 471.0
 County : HENDERSON
 Farm Name : STRUM
 Operator : BROWNING, ILEY
 Well Number : 11
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Development well
 Result : Oil producer
 Permit : N12386
 Measure : 0
 Vertical : 1905.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.654739
 Longitude : -87.613915
 Last Date in Agency List : 2022-11-21

Map Id: 255
 Direction: ESE
 Distance: 0.790 mi., 4174 ft.
 Elevation: 446 ft.
 Relative: Higher

Site Name : 16101041700000-48381
 37.65739, -87.562443
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41894119
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101041700000
 KGS Record Number : 48381
 Completion Date : N/R

Map Id: 255
 Direction: ESE
 Distance: 0.790 mi., 4174 ft.
 Elevation: 446 ft.
 Relative: Higher

Site Name : 16101041700000-48381
 37.65739, -87.562443
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41894119
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 445.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 3085WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657390
 Longitude : -87.562443
 Last Date in Agency List : 2022-11-21

Map Id: 256
 Direction: ESE
 Distance: 0.794 mi., 4195 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 00005962
 37.652266, -87.565564
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18593948
EPA ID: N/R

WELLS - KY

AKGWA Number : 00005962
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1988-06-26
 Status : ACTIVE
 Driller Certification Number : 0023
 Driller Name : Romuald Eckols
 Owner Business Name : N/R
 Owner Name : Troy Royster
 Primary Use : DOMESTIC - SINGLE HOUSEHOLD
 Quadrangle : Robards
 Surface Elevation (Ft) : 434
 Depth to Bedrock (Ft) : 11
 Total Depth (Ft) : 101
 Static Water Level (Ft) : 38
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.652266
 Longitude : -87.565564

Map Id: 256
 Direction: ESE
 Distance: 0.794 mi., 4195 ft.
 Elevation: 421 ft.
 Relative: Lower

Site Name : 00005962
 37.652266, -87.565564
 KY
Database(s) : [WELLS - KY] (*cont.*)

Envirosite ID: 18593948
EPA ID: N/R

WELLS - KY (*cont.*)

Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: 257
 Direction: WSW
 Distance: 0.794 mi., 4195 ft.
 Elevation: 470 ft.
 Relative: Higher

Site Name : 57611
 37.652954, -87.613568
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41899577
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	57611
Completion Date :	1944-08-23
Plugged Date :	1985-04-30
Surface Elevation :	469.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY B & SONS
Well Number :	10
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1912.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.652954
Longitude :	-87.613568
Last Date in Agency List :	2022-11-21

Map Id: BO258
 Direction: E
 Distance: 0.803 mi., 4239 ft.
 Elevation: 455 ft.
 Relative: Higher

Site Name : 16101047550000-48448
 37.661355, -87.561632
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41773883
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101047550000
KGS Record Number :	48448
Completion Date :	1953-07-03

Map Id: BO258
 Direction: E
 Distance: 0.803 mi., 4239 ft.
 Elevation: 455 ft.
 Relative: Higher

Site Name : 16101047550000-48448
 37.661355, -87.561632
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41773883
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1954-09-15
 Surface Elevation : 456.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 10
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Deeper pool test
 Result : Oil producer
 Permit : 4856WF
 Measure : 0
 Vertical : 2528.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.661355
 Longitude : -87.561632
 Last Date in Agency List : 2022-11-21

Map Id: BP259
 Direction: N
 Distance: 0.803 mi., 4240 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 16101074030000-140739
 37.682743, -87.58765
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41719272
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101074030000
 KGS Record Number : 140739
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 404.0
 County : HENDERSON
 Farm Name : CROWDER, ROBERT ET AL
 Operator : NALLY, JOSEPH L
 Well Number : 3
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 107644
 Measure : 0
 Vertical : 0.0

 Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)

Map Id: BP259
 Direction: N
 Distance: 0.803 mi., 4240 ft.
 Elevation: 411 ft.
 Relative: Lower

Site Name : 16101074030000-140739
 37.682743, -87.58765
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41719272
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Latitude : 37.682743
 Longitude : -87.587650
 Last Date in Agency List : 2022-11-21

Map Id: BQ260
 Direction: E
 Distance: 0.805 mi., 4249 ft.
 Elevation: 450 ft.
 Relative: Higher

Site Name : 16101020720000-48379
 37.659364, -87.561839
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41849272
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101020720000
 KGS Record Number : 48379
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 450.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 6
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 4703WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.659364
 Longitude : -87.561839
 Last Date in Agency List : 2022-11-21

Map Id: 261
 Direction: SSE
 Distance: 0.805 mi., 4252 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101072280000-137223
 37.646905, -87.58626
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41722911
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101072280000
KGS Record Number :	137223
Completion Date :	2008-11-17
Plugged Date :	N/R
Surface Elevation :	412.0
County :	HENDERSON
Farm Name :	RAY, W. & B., ET AL
Operator :	CONTINENTAL RESOURCES, INC
Well Number :	7
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Unclassified
Result :	Oil producer
Permit :	104926
Measure :	0
Vertical :	2710.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.646905
Longitude :	-87.586260
Last Date in Agency List :	2022-11-21

Map Id: 262
 Direction: NW
 Distance: 0.811 mi., 4285 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 16101016640000-108373 |
 16101016660000-100318
 37.681673, -87.611495
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41770156
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101016640000
KGS Record Number :	108373
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	411.0
County :	HENDERSON
Farm Name :	TUNNEL HILL UNIT (I J SELLARS)
Operator :	CARTER OIL CO
Well Number :	32W
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Service well, EPA Class II injection
Result :	Water injection
Permit :	199W9
Measure :	0
Vertical :	2615.0

Map Id: 262
 Direction: NW
 Distance: 0.811 mi., 4285 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 16101016640000-108373 |
 16101016660000-100318
 37.681673, -87.611495
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41770156
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.681673
 Longitude : -87.611495
 Last Date in Agency List : 2022-11-21

API Number : 16101016660000
 KGS Record Number : 100318
 Completion Date : 1952-02-18
 Plugged Date : N/R
 Surface Elevation : 411.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 12
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2599WF
 Measure : 0
 Vertical : 2615.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.681673
 Longitude : -87.611495
 Last Date in Agency List : 2022-11-21

Map Id: 263
 Direction: W
 Distance: 0.812 mi., 4287 ft.
 Elevation: 464 ft.
 Relative: Higher

Site Name : 108388 | 16101023150000-100320
 37.666737, -87.619959
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41768320
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 108388
 Completion Date : 1961-02-08
 Plugged Date : 2004-11-10
 Surface Elevation : 472.0
 County : HENDERSON
 Farm Name : TUNNEL HILL UNIT (I J SELLARS)
 Operator : HUMBLE OIL & REF CO

Map Id: 263
 Direction: W
 Distance: 0.812 mi., 4287 ft.
 Elevation: 464 ft.
 Relative: Higher

Site Name : 108388 | 16101023150000-100320
 37.666737, -87.619959
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41768320
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Well Number : 23W
 Total Depth Formation : 332BTHL
 Deepest Pay : 332WLBG
 Well Classification : Service well, EPA Class II injection
 Result : Water injection
 Permit : N/R
 Measure : 0
 Vertical : 2420.0

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.666737
 Longitude : -87.619959
 Last Date in Agency List : 2022-11-21

API Number : 16101023150000
 KGS Record Number : 100320
 Completion Date : 1951-12-20
 Plugged Date : 2004-11-10
 Surface Elevation : 472.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 10
 Total Depth Formation : 333SGVV
 Deepest Pay : 332WLBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 2500WF
 Measure : 0
 Vertical : 2648.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.666737
 Longitude : -87.619959
 Last Date in Agency List : 2022-11-21

Map Id: BO264
 Direction: E
 Distance: 0.812 mi., 4288 ft.
 Elevation: 455 ft.
 Relative: Higher

Site Name : 16101020730000-48378
 37.660943, -87.561493
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41842071
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101020730000
 KGS Record Number : 48378
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 450.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 8
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 4705WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660943
 Longitude : -87.561493
 Last Date in Agency List : 2022-11-21

Map Id: BR265
 Direction: S
 Distance: 0.815 mi., 4302 ft.
 Elevation: 399 ft.
 Relative: Lower

Site Name : 16101008740000-147663
 37.645594, -87.587869
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41764365
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101008740000
 KGS Record Number : 147663
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : DIXON
 Operator : COUNTRYMARK ENERGY RESOURCES, LLC
 Well Number : 5
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N2724
 Measure : 0
 Vertical : 0.0

Map Id: BR265
 Direction: S
 Distance: 0.815 mi., 4302 ft.
 Elevation: 399 ft.
 Relative: Lower

Site Name : 16101008740000-147663
 37.645594, -87.587869
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41764365
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.645594
 Longitude : -87.587869
 Last Date in Agency List : 2022-11-21

Map Id: BS266
 Direction: SSW
 Distance: 0.817 mi., 4314 ft.
 Elevation: 408 ft.
 Relative: Lower

Site Name : 2041862
 37.643178, -87.596902
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41857903
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2041862
 Completion Date : 1949-05-10
 Plugged Date : 1949-05-10
 Surface Elevation : 424.0
 County : WEBSTER
 Farm Name : TAPP, L. M.
 Operator : ASHLAND OIL
 Well Number : 3
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 1866.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.643178
 Longitude : -87.596902
 Last Date in Agency List : 2022-11-21

Map Id: BS267
 Direction: SSW
 Distance: 0.820 mi., 4331 ft.
 Elevation: 409 ft.
 Relative: Lower

Site Name : 16233025310000-132424
 37.643134, -87.597102
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41713655
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16233025310000
 KGS Record Number : 132424
 Completion Date : 2007-02-28
 Plugged Date : 2007-02-28
 Surface Elevation : 410.0
 County : WEBSTER
 Farm Name : ROYSTER, TROY ET AL
 Operator : GRIFFIN, JOHN S
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : 100828
 Measure : 0
 Vertical : 2639.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.643134
 Longitude : -87.597102
 Last Date in Agency List : 2022-11-21

Map Id: 268
 Direction: WNW
 Distance: 0.820 mi., 4331 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101023270000-108375 |
 16101066890000-46411
 37.672888, -87.619614
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41744834
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101023270000
 KGS Record Number : 108375
 Completion Date : 1959-06-09
 Plugged Date : N/R
 Surface Elevation : 421.0
 County : HENDERSON
 Farm Name : TUNNEL HILL UNIT (RAY SIGHTS)
 Operator : CARTER OIL CO
 Well Number : 21S
 Total Depth Formation : 320PNLV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Oil producer
 Permit : 200W9
 Measure : 0
 Vertical : 1598.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)

Map Id: 268
 Direction: WNW
 Distance: 0.820 mi., 4331 ft.
 Elevation: 422 ft.
 Relative: Lower

Site Name : 16101023270000-108375 |
 16101066890000-46411
 37.672888, -87.619614
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41744834
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Latitude :	37.672888
Longitude :	-87.619614
Last Date in Agency List :	2022-11-21
API Number :	16101066890000
KGS Record Number :	46411
Completion Date :	1952-01-20
Plugged Date :	1952-01-22
Surface Elevation :	421.0
County :	HENDERSON
Farm Name :	SIGHTS, RAY
Operator :	DELTA DRILLING CO
Well Number :	6
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	2474WF
Measure :	0
Vertical :	2611.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672888
Longitude :	-87.619614
Last Date in Agency List :	2022-11-21

Map Id: 269
 Direction: ESE
 Distance: 0.821 mi., 4334 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101020620000-48452
 37.655591, -87.56253
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41903538
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101020620000
KGS Record Number :	48452
Completion Date :	1952-09-03
Plugged Date :	N/R
Surface Elevation :	430.0
County :	HENDERSON
Farm Name :	BLUE, J L
Operator :	LOHMANN & JOHNSON DRILLING CO
Well Number :	1
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Development well
Result :	Oil producer
Permit :	3084WF

Map Id: 269
 Direction: ESE
 Distance: 0.821 mi., 4334 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101020620000-48452
 37.655591, -87.56253
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41903538
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Measure : 0
 Vertical : 2002.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655591
 Longitude : -87.562530
 Last Date in Agency List : 2022-11-21

Map Id: BR270
 Direction: S
 Distance: 0.823 mi., 4343 ft.
 Elevation: 399 ft.
 Relative: Lower

Site Name : 16101071350000-106686
 37.645375, -87.588003
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41756009
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101071350000
 KGS Record Number : 106686
 Completion Date : 1944-09-27
 Plugged Date : N/R
 Surface Elevation : 401.0
 County : HENDERSON
 Farm Name : DIXON, MRS N
 Operator : THE TEXAS CO
 Well Number : 5
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Development well
 Result : Oil producer
 Permit : N14602
 Measure : 0
 Vertical : 1822.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.645375
 Longitude : -87.588003
 Last Date in Agency List : 2022-11-21

Map Id: 271
 Direction: SE
 Distance: 0.823 mi., 4348 ft.
 Elevation: 403 ft.
 Relative: Lower

Site Name : 16101009050000-67024
 37.647847, -87.57609
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41869167
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101009050000
KGS Record Number :	67024
Completion Date :	1979-12-15
Plugged Date :	N/R
Surface Elevation :	409.0
County :	HENDERSON
Farm Name :	MOORE, COSBY
Operator :	ATLAS OPERATING CO, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Extension (outpost) well
Result :	Oil producer
Permit :	36831
Measure :	0
Vertical :	2530.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.647847
Longitude :	-87.576090
Last Date in Agency List :	2022-11-21

Map Id: 272
 Direction: SSE
 Distance: 0.826 mi., 4364 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 2041848
 37.648286, -87.583514
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41719612
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2041848
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	399.0
County :	WEBSTER
Farm Name :	EAST POOLE POOL UNIT TR#2
Operator :	SINCLAIR OIL & GAS CO
Well Number :	10
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N/R
Measure :	0
Vertical :	1812.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: 272
 Direction: SSE
 Distance: 0.826 mi., 4364 ft.
 Elevation: 415 ft.
 Relative: Lower

Site Name : 2041848
 37.648286, -87.583514
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41719612
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.648286
Longitude :	-87.583514
Last Date in Agency List :	2022-11-21

Map Id: BQ273
 Direction: E
 Distance: 0.838 mi., 4423 ft.
 Elevation: 456 ft.
 Relative: Higher

Site Name : 16101038340000-42114
 37.659592, -87.561203
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41891474
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101038340000
KGS Record Number :	42114
Completion Date :	1984-08-14
Plugged Date :	1985-12-18
Surface Elevation :	455.0
County :	HENDERSON
Farm Name :	BLUE, CLAUDIA
Operator :	FLOYD E WILLIAMS EQUIPMENT CO
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	332CPRS
Well Classification :	Extension (outpost) well
Result :	Oil producer
Permit :	63727
Measure :	0
Vertical :	2650.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.659592
Longitude :	-87.561203
Last Date in Agency List :	2022-11-21

Map Id: BR274
 Direction: S
 Distance: 0.838 mi., 4427 ft.
 Elevation: 398 ft.
 Relative: Lower

Site Name : 16101071900000-135495
 37.644944, -87.588276
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41923660
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101071900000
KGS Record Number :	135495
Completion Date :	2008-07-11
Plugged Date :	N/R
Surface Elevation :	399.0
County :	HENDERSON
Farm Name :	MELTON, ROY HEIRS
Operator :	GRIFFIN, JOHN S
Well Number :	1
Total Depth Formation :	332CPRS
Deepest Pay :	332CPRS
Well Classification :	Unclassified
Result :	Oil producer
Permit :	103298
Measure :	0
Vertical :	2196.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.644944
Longitude :	-87.588276
Last Date in Agency List :	2022-11-21

Map Id: BP275
 Direction: N
 Distance: 0.841 mi., 4441 ft.
 Elevation: 404 ft.
 Relative: Lower

Site Name : 16101015880000-25398
 37.683293, -87.587488
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41727279
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101015880000
KGS Record Number :	25398
Completion Date :	1960-09-24
Plugged Date :	2010-10-19
Surface Elevation :	406.0
County :	HENDERSON
Farm Name :	HUNTER, IRVIN
Operator :	BURNS DRILLING CO
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	939
Measure :	0
Vertical :	2565.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.683293

Map Id: BP275
 Direction: N
 Distance: 0.841 mi., 4441 ft.
 Elevation: 404 ft.
 Relative: Lower

Site Name : 16101015880000-25398
 37.683293, -87.587488
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41727279
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.587488
 Last Date in Agency List : 2022-11-21

Map Id: 276
 Direction: NNE
 Distance: 0.846 mi., 4468 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 16101073810000-139563
 37.682423, -87.58541
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41759165
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101073810000
 KGS Record Number : 139563
 Completion Date : 2010-09-03
 Plugged Date : 2013-11-19
 Surface Elevation : 407.0
 County : HENDERSON
 Farm Name : CROWDER, ROBERT ET AL
 Operator : NALLY, JOSEPH L
 Well Number : 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 333MCLKC
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 107090
 Measure : 0
 Vertical : 2546.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.682423
 Longitude : -87.585410
 Last Date in Agency List : 2022-11-21

Map Id: BT277
 Direction: W
 Distance: 0.846 mi., 4468 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 16101033160000-108374 |
 16101052100000-46412
 37.669318, -87.62065
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41766245
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101052100000
 KGS Record Number : 46412

Map Id: BT277
 Direction: W
 Distance: 0.846 mi., 4468 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 16101033160000-108374 |
 16101052100000-46412
 37.669318, -87.62065
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41766245
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Completion Date : 1951-12-10
 Plugged Date : N/R
 Surface Elevation : 457.0
 County : HENDERSON
 Farm Name : SIGHTS, RAY
 Operator : DELTA DRILLING CO
 Well Number : 5
 Total Depth Formation : 333SGVV
 Deepest Pay : 333OHAR
 Well Classification : Development well
 Result : Oil producer
 Permit : 2473WF
 Measure : 0
 Vertical : 2635.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669318
 Longitude : -87.620650
 Last Date in Agency List : 2022-11-21

API Number : 16101033160000
 KGS Record Number : 108374
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 457.0
 County : HENDERSON
 Farm Name : TUNNEL HILL UNIT (RAY SIGHTS)
 Operator : CARTER OIL CO
 Well Number : 19W
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Oil producer
 Permit : 197W9
 Measure : 0
 Vertical : 2602.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669318
 Longitude : -87.620650
 Last Date in Agency List : 2022-11-21

Map Id: 278
 Direction: NNW
 Distance: 0.847 mi., 4471 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 108075
 37.684502, -87.602049
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41863465
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	108075
Completion Date :	1952-06-15
Plugged Date :	1952-06-14
Surface Elevation :	456.0
County :	HENDERSON
Farm Name :	CRENSHAW, R E
Operator :	KENNARD OIL CO, INC
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Extension (outpost) well
Result :	Dry & abandoned
Permit :	2841WF
Measure :	0
Vertical :	2620.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.684502
Longitude :	-87.602049
Last Date in Agency List :	2022-11-21

Map Id: 279
 Direction: E
 Distance: 0.847 mi., 4472 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 16101053260000-2018965
 37.663689, -87.560975
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41773267
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101053260000
KGS Record Number :	2018965
Completion Date :	1955-06-23
Plugged Date :	1956-10-31
Surface Elevation :	462.0
County :	HENDERSON
Farm Name :	TAPP, WILEY
Operator :	SLAGTER PRODUCING CO
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	333MCLK
Well Classification :	Unclassified
Result :	Oil producer
Permit :	6722WF
Measure :	0
Vertical :	2627.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.663689

Map Id: 279
 Direction: E
 Distance: 0.847 mi., 4472 ft.
 Elevation: 454 ft.
 Relative: Higher

Site Name : 16101053260000-2018965
 37.663689, -87.560975
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41773267
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.560975
 Last Date in Agency List : 2022-11-21

Map Id: 280
 Direction: WNW
 Distance: 0.847 mi., 4472 ft.
 Elevation: 418 ft.
 Relative: Lower

Site Name : 16101070850000-46416
 37.678707, -87.616677
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41769156
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101070850000
 KGS Record Number : 46416
 Completion Date : 1951-11-22
 Plugged Date : N/R
 Surface Elevation : 419.0
 County : HENDERSON
 Farm Name : MELTON, MAURINE
 Operator : DELTA DRILLING CO
 Well Number : 2
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 2349WF
 Measure : 0
 Vertical : 2617.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.678707
 Longitude : -87.616677
 Last Date in Agency List : 2022-11-21

Map Id: BU281
 Direction: W
 Distance: 0.849 mi., 4482 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 2018746
 37.665092, -87.620235
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41782486
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018746
 Completion Date : 1943-07-28

Map Id: BU281
 Direction: W
 Distance: 0.849 mi., 4482 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 2018746
 37.665092, -87.620235
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41782486
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 533.0
 County : HENDERSON
 Farm Name : BRADLEY, O
 Operator : SINCLAIR-PRAIRIE OIL CO
 Well Number : 3
 Total Depth Formation : 332TSPG
 Deepest Pay : 332TSPG
 Well Classification : Unclassified
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1968.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.665092
 Longitude : -87.620235
 Last Date in Agency List : 2022-11-21

Map Id: BT282
 Direction: W
 Distance: 0.852 mi., 4499 ft.
 Elevation: 452 ft.
 Relative: Higher

Site Name : 16101023260000-147874
 37.669453, -87.620741
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41771231
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101023260000
 KGS Record Number : 147874
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : SIGHTS, RAY
 Operator : PEARSON, CHRIS
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 1543WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669453

Map Id: BT282
Direction: W
Distance: 0.852 mi., 4499 ft.
Elevation: 452 ft.
Relative: Higher

Site Name : 16101023260000-147874
37.669453, -87.620741
KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41771231
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.620741
Last Date in Agency List : 2022-11-21

Map Id: 283
Direction: NW
Distance: 0.862 mi., 4551 ft.
Elevation: 423 ft.
Relative: Lower

Site Name : 16101056290000-108070
37.683898, -87.605194
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41891978
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101056290000
KGS Record Number : 108070
Completion Date : 1952-03-17
Plugged Date : N/R
Surface Elevation : 426.0
County : HENDERSON
Farm Name : DENTON, ADDIE L
Operator : STANFORD OIL CO
Well Number : 5
Total Depth Formation : 333SGVV
Deepest Pay : 333MCLK
Well Classification : Development well
Result : Oil producer
Permit : 2714WF
Measure : 0
Vertical : 2513.0
Plot Symbol : Wells completed as oil (including abandoned producers)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.683898
Longitude : -87.605194
Last Date in Agency List : 2022-11-21

Map Id: 284
Direction: S
Distance: 0.865 mi., 4569 ft.
Elevation: 398 ft.
Relative: Lower

Site Name : 16233015230000-157567
37.642904, -87.592759
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41709249
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16233015230000
KGS Record Number : 157567
Completion Date : N/R

Map Id: 284
 Direction: S
 Distance: 0.865 mi., 4569 ft.
 Elevation: 398 ft.
 Relative: Lower

Site Name : 16233015230000-157567
 37.642904, -87.592759
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41709249
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	N/R
Surface Elevation :	395.0
County :	WEBSTER
Farm Name :	TAPP, L M
Operator :	AN-CAR OIL CO, INC
Well Number :	1TR1
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N12758
Measure :	0
Vertical :	1815.0
 Plot Symbol :	 Newly permitted locations or historic wells for which completion data are not available in the KGS database
 Bore Type :	 Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.642904
Longitude :	-87.592759
Last Date in Agency List :	2022-11-21

Map Id: 285
 Direction: NW
 Distance: 0.873 mi., 4612 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101026420000-108119
 37.683239, -87.60996
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41751182
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101026420000
KGS Record Number :	108119
Completion Date :	1952-01-23
Plugged Date :	N/R
Surface Elevation :	410.0
County :	HENDERSON
Farm Name :	ROBARDS
Operator :	STANFORD OIL CO
Well Number :	2
Total Depth Formation :	333SGVV
Deepest Pay :	333MCLK
Well Classification :	Development well
Result :	Oil producer
Permit :	2580WF
Measure :	0
Vertical :	2552.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.683239

Map Id: 285
 Direction: NW
 Distance: 0.873 mi., 4612 ft.
 Elevation: 410 ft.
 Relative: Lower

Site Name : 16101026420000-108119
 37.683239, -87.60996
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41751182
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.609960
 Last Date in Agency List : 2022-11-21

Map Id: 286
 Direction: W
 Distance: 0.874 mi., 4615 ft.
 Elevation: 503 ft.
 Relative: Higher

Site Name : 16101013710000-2018786
 37.660887, -87.618231
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41775712
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101013710000
 KGS Record Number : 2018786
 Completion Date : 1953-02-26
 Plugged Date : N/R
 Surface Elevation : 500.0
 County : HENDERSON
 Farm Name : POOLE, J V
 Operator : COOK & MALOONEY
 Well Number : 3
 Total Depth Formation : 332VINN
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : 4490WF
 Measure : 0
 Vertical : 1947.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660887
 Longitude : -87.618231
 Last Date in Agency List : 2022-11-21

Map Id: 287
 Direction: ESE
 Distance: 0.880 mi., 4648 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 2018964
 37.650343, -87.565742
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41898430
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018964
 Completion Date : 1953-03-14

Map Id: 287
 Direction: ESE
 Distance: 0.880 mi., 4648 ft.
 Elevation: 449 ft.
 Relative: Higher

Site Name : 2018964
 37.650343, -87.565742
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41898430
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : 1953-04-04
 Surface Elevation : 432.0
 County : HENDERSON
 Farm Name : ROBERTS, V S
 Operator : THE TEXAS CO
 Well Number : 1
 Total Depth Formation : 333STLS
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : 4505WF
 Measure : 0
 Vertical : 2643.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.650343
 Longitude : -87.565742
 Last Date in Agency List : 2022-11-21

Map Id: BV288
 Direction: ESE
 Distance: 0.880 mi., 4648 ft.
 Elevation: 425 ft.
 Relative: Lower

Site Name : 16101054500000-10108
 37.649165, -87.567641
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41716500
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101054500000
 KGS Record Number : 10108
 Completion Date : 1981-06-03
 Plugged Date : 1981-06-04
 Surface Elevation : 425.0
 County : HENDERSON
 Farm Name : WATKINS
 Operator : ROSEWOOD WATERFLOOD, INC
 Well Number : 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 42640
 Measure : 0
 Vertical : 2600.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.649165
 Longitude : -87.567641
 Last Date in Agency List : 2022-11-21

Map Id: BW289
 Direction: SSW
 Distance: 0.881 mi., 4652 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 2041709
 37.643508, -87.604051
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 50655757
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2041709
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 507.0
 County : WEBSTER
 Farm Name : KNIGHT
 Operator : BROWNING, I B
 Well Number : 7
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2477.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.643508
 Longitude : -87.604051
 Last Date in Agency List : 2022-11-21

Map Id: 290
 Direction: NW
 Distance: 0.885 mi., 4673 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101026320000-107668
 37.683898, -87.607992
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41753460
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101026320000
 KGS Record Number : 107668
 Completion Date : 1952-01-31
 Plugged Date : 1963-08-30
 Surface Elevation : 420.0
 County : HENDERSON
 Farm Name : DENTON, ADDIE L
 Operator : STANFORD OIL CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 2553WF
 Measure : 0
 Vertical : 2496.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.683898

Map Id: 290
 Direction: NW
 Distance: 0.885 mi., 4673 ft.
 Elevation: 416 ft.
 Relative: Lower

Site Name : 16101026320000-107668
 37.683898, -87.607992
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41753460
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.607992
 Last Date in Agency List : 2022-11-21

Map Id: BV291
 Direction: ESE
 Distance: 0.891 mi., 4705 ft.
 Elevation: 435 ft.
 Relative: Higher

Site Name : 2018972
 37.64922, -87.567192
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41725871
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018972
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : ROBARDS
 Operator : THE TEXAS CO
 Well Number : 1
 Total Depth Formation : 300PLZC
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N/R
 Measure : 0
 Vertical : 2643.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.649220
 Longitude : -87.567192
 Last Date in Agency List : 2022-11-21

Map Id: 292
 Direction: ESE
 Distance: 0.891 mi., 4706 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101020710000-48451
 37.657403, -87.560561
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41720055
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101020710000
KGS Record Number :	48451
Completion Date :	1952-12-17
Plugged Date :	N/R
Surface Elevation :	438.0
County :	HENDERSON
Farm Name :	BLUE, J L
Operator :	LOHMANN & JOHNSON DRILLING CO
Well Number :	4
Total Depth Formation :	332CPRS
Deepest Pay :	332CPRS
Well Classification :	Deeper pool test
Result :	Oil producer
Permit :	4145WF
Measure :	0
Vertical :	2193.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.657403
Longitude :	-87.560561
Last Date in Agency List :	2022-11-21

Map Id: BU293
 Direction: W
 Distance: 0.892 mi., 4709 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 16101005450000-28765
 37.665081, -87.621046
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41718688
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101005450000
KGS Record Number :	28765
Completion Date :	1983-05-26
Plugged Date :	2007-05-10
Surface Elevation :	467.0
County :	HENDERSON
Farm Name :	OVERFIELD
Operator :	HERCULES PETROLEUM CO, INC
Well Number :	1
Total Depth Formation :	332WLBG
Deepest Pay :	332WLBG
Well Classification :	Service well, EPA Class II injection
Result :	Secondary recovery injection (Class II)
Permit :	55749
Measure :	0
Vertical :	1818.0

Map Id: BU293
 Direction: W
 Distance: 0.892 mi., 4709 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 16101005450000-28765
 37.665081, -87.621046
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41718688
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.665081
 Longitude : -87.621046
 Last Date in Agency List : 2022-11-21

Map Id: BV294
 Direction: ESE
 Distance: 0.892 mi., 4710 ft.
 Elevation: 437 ft.
 Relative: Higher

Site Name : 16101005260000-22882
 37.649332, -87.566968
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41706413
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101005260000
 KGS Record Number : 22882
 Completion Date : 1983-03-20
 Plugged Date : 2007-02-08
 Surface Elevation : 437.0
 County : HENDERSON
 Farm Name : WATKINS, C
 Operator : SITEFINDER PRODUCTION CO
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 54814
 Measure : 0
 Vertical : 2000.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.649332
 Longitude : -87.566968
 Last Date in Agency List : 2022-11-21

Map Id: 295
 Direction: NW
 Distance: 0.894 mi., 4720 ft.
 Elevation: 404 ft.
 Relative: Lower

Site Name : 16101016670000-100317
 37.683156, -87.61115
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41742203
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101016670000
 KGS Record Number : 100317
 Completion Date : 1952-04-12
 Plugged Date : 1952-04-19
 Surface Elevation : 408.0
 County : HENDERSON
 Farm Name : SELLARS, IJ
 Operator : CARTER OIL CO
 Well Number : 13
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 2752WF
 Measure : 0
 Vertical : 2538.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.683156
 Longitude : -87.611150
 Last Date in Agency List : 2022-11-21

Map Id: 296
 Direction: ESE
 Distance: 0.899 mi., 4748 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101020890000-48447
 37.653476, -87.562184
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41779993
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101020890000
 KGS Record Number : 48447
 Completion Date : 1952-10-19
 Plugged Date : N/R
 Surface Elevation : 422.0
 County : HENDERSON
 Farm Name : WALKER, W H
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 333MCLK
 Well Classification : Development well
 Result : Oil producer
 Permit : 4146WF
 Measure : 0
 Vertical : 2595.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.653476

Map Id: 296
 Direction: ESE
 Distance: 0.899 mi., 4748 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16101020890000-48447
 37.653476, -87.562184
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41779993
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.562184
 Last Date in Agency List : 2022-11-21

Map Id: 297
 Direction: E
 Distance: 0.901 mi., 4760 ft.
 Elevation: 444 ft.
 Relative: Higher

Site Name : 16101047540000-48449
 37.660806, -87.55987
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41734462
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101047540000
 KGS Record Number : 48449
 Completion Date : 1953-06-24
 Plugged Date : 1954-09-16
 Surface Elevation : 450.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 7
 Total Depth Formation : 332CPRS
 Deepest Pay : 332CPRS
 Well Classification : Development well
 Result : Oil producer
 Permit : 4704WF
 Measure : 0
 Vertical : 2205.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.660806
 Longitude : -87.559870
 Last Date in Agency List : 2022-11-21

Map Id: BW298
 Direction: SSW
 Distance: 0.902 mi., 4761 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 2018878
 37.643288, -87.60436
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41934902
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018878
 Completion Date : N/R

Map Id: BW298
 Direction: SSW
 Distance: 0.902 mi., 4761 ft.
 Elevation: 424 ft.
 Relative: Lower

Site Name : 2018878
 37.643288, -87.60436
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41934902
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date : N/R
 Surface Elevation : 428.0
 County : HENDERSON
 Farm Name : KNIGHT, ELLIOTT
 Operator : BROWNING, ILEY B
 Well Number : 8
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 1880.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.643288
 Longitude : -87.604360
 Last Date in Agency List : 2022-11-21

Map Id: 299
 Direction: WSW
 Distance: 0.902 mi., 4762 ft.
 Elevation: 499 ft.
 Relative: Higher

Site Name : 106483
 37.657732, -87.616055
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41893449
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 106483
 Completion Date : 1944-06-02
 Plugged Date : N/R
 Surface Elevation : 517.0
 County : HENDERSON
 Farm Name : TRAVIS-POOLE COMMUNITY
 Operator : CRAEGER-YINGLING
 Well Number : 1
 Total Depth Formation : 332CPRS
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2334.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657732
 Longitude : -87.616055
 Last Date in Agency List : 2022-11-21

Map Id: 300
 Direction: WSW
 Distance: 0.904 mi., 4773 ft.
 Elevation: 489 ft.
 Relative: Higher

Site Name : 2018737
 37.654519, -87.616021
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740509
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018737
Completion Date :	1944-10-04
Plugged Date :	N/R
Surface Elevation :	479.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	13
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1928.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.654519
Longitude :	-87.616021
Last Date in Agency List :	2022-11-21

Map Id: 301
 Direction: NNE
 Distance: 0.908 mi., 4797 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 2019432
 37.682058, -87.582998
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41896422
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2019432
Completion Date :	1960-12-04
Plugged Date :	N/R
Surface Elevation :	427.0
County :	HENDERSON
Farm Name :	PURYERA, M F
Operator :	BURNS DRLG CO & FRANK WOLTER ASS
Well Number :	1
Total Depth Formation :	332PCEKS
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2594.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.682058

Map Id: 301
 Direction: NNE
 Distance: 0.908 mi., 4797 ft.
 Elevation: 419 ft.
 Relative: Lower

Site Name : 2019432
 37.682058, -87.582998
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41896422
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.582998
 Last Date in Agency List : 2022-11-21

Map Id: BU302
 Direction: W
 Distance: 0.909 mi., 4797 ft.
 Elevation: 462 ft.
 Relative: Higher

Site Name : 16101018870000-46409 |
 16101023000000-46397
 37.665611, -87.621512
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740606
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101018870000
KGS Record Number :	46409
Completion Date :	1951-12-31
Plugged Date :	1983-05-26
Surface Elevation :	448.0
County :	HENDERSON
Farm Name :	OVERFIELD, C H
Operator :	DELTA DRILLING CO
Well Number :	7
Total Depth Formation :	333SGVV
Deepest Pay :	332WLBG
Well Classification :	Development well
Result :	Oil producer
Permit :	2531WF
Measure :	0
Vertical :	2652.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.665611
Longitude :	-87.621512
Last Date in Agency List :	2022-11-21

API Number :	16101023000000
KGS Record Number :	46397
Completion Date :	N/R
Plugged Date :	1983-05-26
Surface Elevation :	448.0
County :	HENDERSON
Farm Name :	TUNNEL HILL UNIT
Operator :	CARTER OIL CO
Well Number :	5W
Total Depth Formation :	332WLBG
Deepest Pay :	332WLBG
Well Classification :	Service well, EPA Class II injection
Result :	Secondary recovery injection (Class II)
Permit :	195W9
Measure :	0

Map Id: BU302
 Direction: W
 Distance: 0.909 mi., 4797 ft.
 Elevation: 462 ft.
 Relative: Higher

Site Name : 16101018870000-46409 |
 16101023000000-46397
 37.665611, -87.621512
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41740606
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Vertical : 1810.0

Plot Symbol : Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.665611
 Longitude : -87.621512
 Last Date in Agency List : 2022-11-21

Map Id: BX303
 Direction: E
 Distance: 0.909 mi., 4800 ft.
 Elevation: 440 ft.
 Relative: Higher

Site Name : 16101020740000-48382
 37.662248, -87.55968
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41755976
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101020740000
 KGS Record Number : 48382
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 448.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 9
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 4825WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.662248
 Longitude : -87.559680
 Last Date in Agency List : 2022-11-21

Map Id: 304
 Direction: S
 Distance: 0.909 mi., 4800 ft.
 Elevation: 396 ft.
 Relative: Lower

Site Name : 16233002630000-25469
 37.644276, -87.587227
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41735241
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16233002630000
KGS Record Number :	25469
Completion Date :	1960-10-08
Plugged Date :	2003-01-16
Surface Elevation :	399.0
County :	HENDERSON
Farm Name :	DIXON, N
Operator :	SINCLAIR OIL & GAS CO
Well Number :	W10
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Service well, EPA Class II injection
Result :	Secondary recovery injection (Class II)
Permit :	905
Measure :	0
Vertical :	1812.0
Plot Symbol :	Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.644276
Longitude :	-87.587227
Last Date in Agency List :	2022-11-21

Map Id: BY305
 Direction: W
 Distance: 0.910 mi., 4803 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 46418
 37.667808, -87.621859
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41768526
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	46418
Completion Date :	1951-02-18
Plugged Date :	N/R
Surface Elevation :	453.0
County :	HENDERSON
Farm Name :	SIGHTS, RAY (MELTON,A)
Operator :	DELTA DRILLING CO
Well Number :	1
Total Depth Formation :	332WLBG
Deepest Pay :	332WLBG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1785.0

Map Id: BY305
 Direction: W
 Distance: 0.910 mi., 4803 ft.
 Elevation: 453 ft.
 Relative: Higher

Site Name : 46418
 37.667808, -87.621859
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41768526
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.667808
Longitude :	-87.621859
Last Date in Agency List :	2022-11-21

Map Id: 306
 Direction: E
 Distance: 0.911 mi., 4810 ft.
 Elevation: 452 ft.
 Relative: Higher

Site Name : 16101047530000-48450
 37.658966, -87.559939
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41725997
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101047530000
KGS Record Number :	48450
Completion Date :	1953-05-18
Plugged Date :	1963-09-07
Surface Elevation :	454.0
County :	HENDERSON
Farm Name :	BLUE, J L
Operator :	LOHMANN & JOHNSON DRILLING CO
Well Number :	5
Total Depth Formation :	332CPRS
Deepest Pay :	332CPRS
Well Classification :	Development well
Result :	Oil producer
Permit :	4701WF
Measure :	0
Vertical :	2208.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.658966
Longitude :	-87.559939
Last Date in Agency List :	2022-11-21

Map Id: 307
 Direction: W
 Distance: 0.911 mi., 4811 ft.
 Elevation: 484 ft.
 Relative: Higher

Site Name : 16101038950000-35229
 37.662359, -87.620141
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41775953
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101038950000
 KGS Record Number : 35229
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 487.0
 County : HENDERSON
 Farm Name : OVERFIELD
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 2
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 55208
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.662359
 Longitude : -87.620141
 Last Date in Agency List : 2022-11-21

Map Id: 308
 Direction: WSW
 Distance: 0.911 mi., 4812 ft.
 Elevation: 464 ft.
 Relative: Higher

Site Name : 16101070030000-140282
 37.652743, -87.615711
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41854868
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101070030000
 KGS Record Number : 140282
 Completion Date : N/R
 Plugged Date : 2010-06-30
 Surface Elevation : 0.0
 County : HENDERSON
 Farm Name : STRUM (EUGENE BRADLEY LEASE)
 Operator : SHEFFER, DENNIS W DBA SHEFFER, DENNIS OIL
 Well Number : UNK
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N13824
 Measure : 0
 Vertical : 0.0

Map Id: 308
 Direction: WSW
 Distance: 0.911 mi., 4812 ft.
 Elevation: 464 ft.
 Relative: Higher

Site Name : 16101070030000-140282
 37.652743, -87.615711
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41854868
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.652743
 Longitude : -87.615711
 Last Date in Agency List : 2022-11-21

Map Id: 309
 Direction: SSE
 Distance: 0.914 mi., 4829 ft.
 Elevation: 401 ft.
 Relative: Lower

Site Name : 16101071410000-133637
 37.644955, -87.585966
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41879492
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101071410000
 KGS Record Number : 133637
 Completion Date : 2007-12-23
 Plugged Date : N/R
 Surface Elevation : 403.0
 County : HENDERSON
 Farm Name : MELTON-WISE HEIRS UNIT
 Operator : GRIFFIN, JOHN S
 Well Number : 1
 Total Depth Formation : 333SGVV
 Deepest Pay : 332CPRS
 Well Classification : Unclassified
 Result : Oil producer
 Permit : 101756
 Measure : 0
 Vertical : 2665.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.644955
 Longitude : -87.585966
 Last Date in Agency List : 2022-11-21

Map Id: BZ310
 Direction: ESE
 Distance: 0.917 mi., 4842 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 1610104750000-48443
 37.655673, -87.56063
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41737148
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 1610104750000
 KGS Record Number : 48443
 Completion Date : 1955-12-07
 Plugged Date : 1955-12-07
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : KENNARD OIL CO, INC
 Well Number : 1A
 Total Depth Formation : 332CPRS
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 7269WF
 Measure : 0
 Vertical : 2210.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655673
 Longitude : -87.560630
 Last Date in Agency List : 2022-11-21

Map Id: CA311
 Direction: SW
 Distance: 0.919 mi., 4853 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101016950000-2041713
 37.643727, -87.60626
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41781811
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101016950000
 KGS Record Number : 2041713
 Completion Date : 1980-04-17
 Plugged Date : N/R
 Surface Elevation : 440.0
 County : WEBSTER
 Farm Name : KNIGHT, ELLOITT, HEIRS
 Operator : NUEVE OIL CO
 Well Number : 1-N
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : 37397
 Measure : 0
 Vertical : 2710.0
 Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Map Id: CA311
 Direction: SW
 Distance: 0.919 mi., 4853 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101016950000-2041713
 37.643727, -87.60626
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41781811
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.643727
 Longitude : -87.606260
 Last Date in Agency List : 2022-11-21

Map Id: BZ312
 Direction: ESE
 Distance: 0.923 mi., 4874 ft.
 Elevation: 439 ft.
 Relative: Higher

Site Name : 16101020630000-48380
 37.655399, -87.56063
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41871855
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101020630000
 KGS Record Number : 48380
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 435.0
 County : HENDERSON
 Farm Name : BLUE, J L
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 3
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 4144WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.655399
 Longitude : -87.560630
 Last Date in Agency List : 2022-11-21

Map Id: BY313
 Direction: W
 Distance: 0.923 mi., 4876 ft.
 Elevation: 451 ft.
 Relative: Higher

Site Name : 16101022990000-147871
 37.668083, -87.622121
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41717524
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101022990000
KGS Record Number :	147871
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	448.0
County :	HENDERSON
Farm Name :	OVERFIELD, C H
Operator :	L. A. W. OIL, LLC
Well Number :	5
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	2298WF
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.668083
Longitude :	-87.622121
Last Date in Agency List :	2022-11-21

Map Id: 314
 Direction: NNE
 Distance: 0.929 mi., 4908 ft.
 Elevation: 446 ft.
 Relative: Higher

Site Name : 16101048320000-2019428
 37.680025, -87.580234
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41908098
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101048320000
KGS Record Number :	2019428
Completion Date :	1961-12-27
Plugged Date :	1961-12-28
Surface Elevation :	448.0
County :	HENDERSON
Farm Name :	BURNS, JAMES
Operator :	BURNS DRILLING CO
Well Number :	1
Total Depth Formation :	332MSSPU
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	5108
Measure :	0
Vertical :	2610.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)

Map Id: 314
 Direction: NNE
 Distance: 0.929 mi., 4908 ft.
 Elevation: 446 ft.
 Relative: Higher

Site Name : 16101048320000-2019428
 37.680025, -87.580234
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41908098
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.680025
 Longitude : -87.580234
 Last Date in Agency List : 2022-11-21

Map Id: CB315
 Direction: W
 Distance: 0.932 mi., 4919 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101033150000-108371 | 46415
 37.669455, -87.622204
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41710111
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 46415
 Completion Date : 1951-03-21
 Plugged Date : 1951-03-22
 Surface Elevation : 477.0
 County : HENDERSON
 Farm Name : SIGHTS, RAY
 Operator : DELTA DRILLING CO
 Well Number : 2
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : N/R
 Measure : 0
 Vertical : 2647.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.669455
 Longitude : -87.622204
 Last Date in Agency List : 2022-11-21

API Number : 16101033150000
 KGS Record Number : 108371
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 477.0
 County : HENDERSON
 Farm Name : TUNNEL HILL UNIT (RAY SIGHTS)
 Operator : CARTER OIL CO
 Well Number : 18W
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Service well, EPA Class II injection
 Result : Water injection

Map Id: CB315
 Direction: W
 Distance: 0.932 mi., 4919 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101033150000-108371 | 46415
 37.669455, -87.622204
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41710111
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Permit :	196W9
Measure :	0
Vertical :	2556.0
Plot Symbol :	Secondary recovery input, water injection, and other miscellaneous well types associated with secondary or enhanced oil recovery (EPA Class II wells)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.669455
Longitude :	-87.622204
Last Date in Agency List :	2022-11-21

Map Id: 316
 Direction: WSW
 Distance: 0.932 mi., 4921 ft.
 Elevation: 489 ft.
 Relative: Higher

Site Name : 16101044800000-2018735
 37.651086, -87.615399
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41707973
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101044800000
KGS Record Number :	2018735
Completion Date :	1944-08-09
Plugged Date :	1999-07-22
Surface Elevation :	497.0
County :	HENDERSON
Farm Name :	STRUM
Operator :	BROWNING, ILEY
Well Number :	9
Total Depth Formation :	332TSPG
Deepest Pay :	332WLBG
Well Classification :	Development well
Result :	Oil producer
Permit :	N12266
Measure :	0
Vertical :	1934.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.651086
Longitude :	-87.615399
Last Date in Agency List :	2022-11-21

Map Id: 317
 Direction: SW
 Distance: 0.934 mi., 4930 ft.
 Elevation: 465 ft.
 Relative: Higher

Site Name : 16101034820000-156308
 37.645433, -87.60996
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41720515
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101034820000
KGS Record Number :	156308
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	KNIGHT
Operator :	BROWNING, ILEY B
Well Number :	3
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N1373
Measure :	0
Vertical :	0.0
Plot Symbol :	Newly permitted locations or historic wells for which completion data are not available in the KGS database
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.645433
Longitude :	-87.609960
Last Date in Agency List :	2022-11-21

Map Id: CB318
 Direction: W
 Distance: 0.935 mi., 4938 ft.
 Elevation: 443 ft.
 Relative: Higher

Site Name : 16101022520000-147870
 37.669533, -87.622261
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41856537
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101022520000
KGS Record Number :	147870
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	0.0
County :	HENDERSON
Farm Name :	ROYALCO-SIGHTS (TUNEL HILL WATERFLOOD)
Operator :	KY ENERGY GROUP, LLC
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Location (new permit issued or insufficient data)
Permit :	N711
Measure :	0
Vertical :	0.0

Map Id: CB318
Direction: W
Distance: 0.935 mi., 4938 ft.
Elevation: 443 ft.
Relative: Higher

Site Name : 16101022520000-147870
37.669533, -87.622261
KY
Database(s) : [OIL & GAS WELLS - KY] (**cont.**)

Envirosite ID: 41856537
EPA ID: N/R

OIL & GAS WELLS - KY (**cont.**)

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.669533
Longitude : -87.622261
Last Date in Agency List : 2022-11-21

Map Id: BX319
Direction: E
Distance: 0.935 mi., 4940 ft.
Elevation: 451 ft.
Relative: Higher

Site Name : TOWER
37.662383, -87.5592
SEBREE, KY
Database(s) : [DIGITAL OBSTACLE]

Envirosite ID: 2559868
EPA ID: N/R

DIGITAL OBSTACLE

Date of Action : 2004-05-02
Action : Change
FAA Study Number : 2003ASO00403OE
OBS Number : 21-000246
Obstacle Type : TOWER
City Name : SEBREE
State Identifier : KY
Country Identifier : USA
Type of Lighting : Medium Intensity White Strobe
Verification Status : Verified
Quantity : 1
Mark Indicator : None
Above Ground Level Height (Feet) : 00344
Above Mean Sea Level Height (Feet) : 00788
Horizontal Accuracy : +-50'
Vertical Accuracy : +-20'
Latitude : 37 39 44.58N
Longitude : 087 33 33.12W

Map Id: CC320
Direction: SSW
Distance: 0.939 mi., 4958 ft.
Elevation: 423 ft.
Relative: Lower

Site Name : 16233019580000-2041716
37.642285, -87.602962
KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41720168
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16233019580000

Map Id: CC320
 Direction: SSW
 Distance: 0.939 mi., 4958 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16233019580000-2041716
 37.642285, -87.602962
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41720168
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

KGS Record Number :	2041716
Completion Date :	1966-12-05
Plugged Date :	1966-12-05
Surface Elevation :	423.0
County :	WEBSTER
Farm Name :	MELTON, ROY
Operator :	BURNS DRILLING CO
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Dry & abandoned
Permit :	18164
Measure :	0
Vertical :	930.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.642285
Longitude :	-87.602962
Last Date in Agency List :	2022-11-21

Map Id: CC321
 Direction: SSW
 Distance: 0.941 mi., 4968 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16233003720000-2041715
 37.642299, -87.603117
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41908149
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16233003720000
KGS Record Number :	2041715
Completion Date :	1966-10-01
Plugged Date :	N/R
Surface Elevation :	423.0
County :	WEBSTER
Farm Name :	MELTON, ROY
Operator :	BURNS DRILLING CO
Well Number :	1
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	17807
Measure :	0
Vertical :	1880.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.642299
Longitude :	-87.603117

Map Id: CC321
 Direction: SSW
 Distance: 0.941 mi., 4968 ft.
 Elevation: 423 ft.
 Relative: Lower

Site Name : 16233003720000-2041715
 37.642299, -87.603117
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41908149
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Last Date in Agency List : 2022-11-21

Map Id: 322
 Direction: SSW
 Distance: 0.946 mi., 4994 ft.
 Elevation: 442 ft.
 Relative: Higher

Site Name : 16233025140000-131650
 37.641327, -87.597568
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41723690
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16233025140000
KGS Record Number :	131650
Completion Date :	2006-09-19
Plugged Date :	2009-11-03
Surface Elevation :	444.0
County :	WEBSTER
Farm Name :	ASHBY-MELTON HEIRS UNIT
Operator :	GRIFFIN, JOHN S
Well Number :	1
Total Depth Formation :	333SGVV
Deepest Pay :	332CPRS
Well Classification :	Unclassified
Result :	Oil producer
Permit :	99959
Measure :	0
Vertical :	2700.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.641327
Longitude :	-87.597568
Last Date in Agency List :	2022-11-21

Map Id: 323
 Direction: N
 Distance: 0.948 mi., 5008 ft.
 Elevation: 406 ft.
 Relative: Lower

Site Name : 16101064240000-108111
 37.685161, -87.588008
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41849676
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101064240000
KGS Record Number :	108111
Completion Date :	1961-02-16
Plugged Date :	1961-05-23

Map Id: 323
 Direction: N
 Distance: 0.948 mi., 5008 ft.
 Elevation: 406 ft.
 Relative: Lower

Site Name : 16101064240000-108111
 37.685161, -87.588008
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41849676
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Surface Elevation : 405.0
 County : HENDERSON
 Farm Name : POWELL, GUY
 Operator : BURNS DRILLING CO
 Well Number : 2
 Total Depth Formation : 333SGVV
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 2253
 Measure : 0
 Vertical : 2547.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.685161
 Longitude : -87.588008
 Last Date in Agency List : 2022-11-21

Map Id: 324
 Direction: ESE
 Distance: 0.950 mi., 5017 ft.
 Elevation: 408 ft.
 Relative: Lower

Site Name : 16101020910000-48389
 37.651966, -87.562271
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41887880
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101020910000
 KGS Record Number : 48389
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 410.0
 County : HENDERSON
 Farm Name : WALKER, W H
 Operator : LOHMANN & JOHNSON DRILLING CO
 Well Number : 3
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 4148WF
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651966

Map Id: 324
 Direction: ESE
 Distance: 0.950 mi., 5017 ft.
 Elevation: 408 ft.
 Relative: Lower

Site Name : 16101020910000-48389
 37.651966, -87.562271
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41887880
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.562271
 Last Date in Agency List : 2022-11-21

Map Id: CA325
 Direction: SW
 Distance: 0.950 mi., 5017 ft.
 Elevation: 450 ft.
 Relative: Higher

Site Name : 2041711
 37.643565, -87.607054
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41746812
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2041711
 Completion Date : 1945-09-25
 Plugged Date : N/R
 Surface Elevation : 465.0
 County : WEBSTER
 Farm Name : KNIGHT, E
 Operator : BROWNING, I B
 Well Number : 2
 Total Depth Formation : 332TSPG
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Oil producer
 Permit : N/R
 Measure : 0
 Vertical : 1905.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.643565
 Longitude : -87.607054
 Last Date in Agency List : 2022-11-21

Map Id: CD326
 Direction: W
 Distance: 0.956 mi., 5046 ft.
 Elevation: 513 ft.
 Relative: Higher

Site Name : 16101031890000-2018755
 37.659157, -87.618404
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41754598
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101031890000
 KGS Record Number : 2018755
 Completion Date : N/R

Map Id: CD326
 Direction: W
 Distance: 0.956 mi., 5046 ft.
 Elevation: 513 ft.
 Relative: Higher

Site Name : 16101031890000-2018755
 37.659157, -87.618404
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41754598
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plugged Date :	N/R
Surface Elevation :	516.0
County :	HENDERSON
Farm Name :	CRAVENS HEIRS
Operator :	MALOOLEY & COOK
Well Number :	1
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	4136WF
Measure :	0
Vertical :	2700.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.659157
Longitude :	-87.618404
Last Date in Agency List :	2022-11-21

Map Id: BW327
 Direction: SSW
 Distance: 0.957 mi., 5055 ft.
 Elevation: 427 ft.
 Relative: Lower

Site Name : 2041707
 37.642577, -87.604845
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 50655794
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2041707
Completion Date :	1945-10-29
Plugged Date :	N/R
Surface Elevation :	507.0
County :	WEBSTER
Farm Name :	KNIGHT
Operator :	BROWNING, I B
Well Number :	4
Total Depth Formation :	333MCLK
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2709.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.642577
Longitude :	-87.604845
Last Date in Agency List :	2022-11-21

Map Id: CE328
 Direction: W
 Distance: 0.959 mi., 5065 ft.
 Elevation: 474 ft.
 Relative: Higher

Site Name : 16101063330000-42917
 37.66315, -87.62155
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41725371
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101063330000
 KGS Record Number : 42917
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 479.0
 County : HENDERSON
 Farm Name : OVERFIELD
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 4
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 56674
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.663150
 Longitude : -87.621550
 Last Date in Agency List : 2022-11-21

Map Id: CE329
 Direction: W
 Distance: 0.962 mi., 5078 ft.
 Elevation: 467 ft.
 Relative: Higher

Site Name : 16101063330000-10081
 37.663592, -87.621806
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41845715
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 161010633300000
 KGS Record Number : 10081
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 471.0
 County : HENDERSON
 Farm Name : OVERFIELD
 Operator : HERCULES PETROLEUM CO, INC
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 54841
 Measure : 0
 Vertical : 0.0

Map Id: CE329
 Direction: W
 Distance: 0.962 mi., 5078 ft.
 Elevation: 467 ft.
 Relative: Higher

Site Name : 16101063300000-10081
 37.663592, -87.621806
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41845715
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.663592
Longitude : -87.621806
Last Date in Agency List : 2022-11-21

Map Id: 330
 Direction: NNW
 Distance: 0.966 mi., 5100 ft.
 Elevation: 428 ft.
 Relative: Lower

Site Name : 108112
 37.686397, -87.601393
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41761986
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
KGS Record Number : 108112
Completion Date : 1952-02-23
Plugged Date : 1953-04-08
Surface Elevation : 426.0
County : HENDERSON
Farm Name : POWELL, G
Operator : WILSON & DAVIS
Well Number : 1
Total Depth Formation : 333SGVV
Deepest Pay : 333MCLK
Well Classification : Development well
Result : Oil producer
Permit : N/R
Measure : 0
Vertical : 2546.0
Plot Symbol : Wells completed as oil (including abandoned producers)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.686397
Longitude : -87.601393
Last Date in Agency List : 2022-11-21

Map Id: 331
 Direction: SW
 Distance: 0.972 mi., 5132 ft.
 Elevation: 466 ft.
 Relative: Higher

Site Name : 2018877
 37.644002, -87.608642
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41907419
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2018877
Completion Date :	1952-09-18
Plugged Date :	N/R
Surface Elevation :	465.0
County :	HENDERSON
Farm Name :	KNIGHT, E
Operator :	BROWNING, I B & SONS
Well Number :	2
Total Depth Formation :	332HDBG
Deepest Pay :	332HDBG
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	2019.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.644002
Longitude :	-87.608642
Last Date in Agency List :	2022-11-21

Map Id: 332
 Direction: SE
 Distance: 0.972 mi., 5135 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101005430000-22883
 37.64758, -87.567672
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41735050
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101005430000
KGS Record Number :	22883
Completion Date :	1983-06-02
Plugged Date :	2007-02-08
Surface Elevation :	433.0
County :	HENDERSON
Farm Name :	WATKINS, C
Operator :	WATKINS PRODUCTION CO
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	55624
Measure :	0
Vertical :	3200.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.647580

Map Id: 332
 Direction: SE
 Distance: 0.972 mi., 5135 ft.
 Elevation: 432 ft.
 Relative: Lower

Site Name : 16101005430000-22883
 37.64758, -87.567672
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41735050
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Longitude : -87.567672
 Last Date in Agency List : 2022-11-21

Map Id: 333
 Direction: WSW
 Distance: 0.983 mi., 5190 ft.
 Elevation: 496 ft.
 Relative: Higher

Site Name : 2018791
 37.65169, -87.616677
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41890933
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 2018791
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 491.0
 County : HENDERSON
 Farm Name : STRUM
 Operator : BROWNING, ILEY B
 Well Number : 25
 Total Depth Formation : 333MCLK
 Deepest Pay : 332TSPG
 Well Classification : Unclassified
 Result : Location (new permit issued or insufficient data)
 Permit : N22289
 Measure : 0
 Vertical : 2792.0

Plot Symbol : Newly permitted locations or historic wells for which completion data are not available in the KGS database

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.651690
 Longitude : -87.616677
 Last Date in Agency List : 2022-11-21

Map Id: 334
 Direction: SW
 Distance: 0.985 mi., 5200 ft.
 Elevation: 499 ft.
 Relative: Higher

Site Name : 00001581 | 00001583
 37.645599, -87.611677
 KY
Database(s) : [WELLS - KY]

Envirosite ID: 18612743
EPA ID: N/R

WELLS - KY

AKGWA Number : 00001581
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1986-08-12
 Status : PLUGGED
 Driller Certification Number : 9999
 Driller Name : Unknown Driller
 Owner Business Name : N/R
 Owner Name : William Chandler
 Primary Use : HEAT PUMP - OPEN LOOP
 Quadrangle : Robards
 Surface Elevation (Ft) : 480
 Depth to Bedrock (Ft) : N/R
 Total Depth (Ft) : N/R
 Static Water Level (Ft) : N/R
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.645599
 Longitude : -87.611677
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

AKGWA Number : 00001583
 AI Number : N/R
 Public ID : N/R
 Construction Date : 1986-11-02
 Status : ACTIVE
 Driller Certification Number : 0023
 Driller Name : Romuald Eckols
 Owner Business Name : N/R
 Owner Name : William Chandler
 Primary Use : DOMESTIC - SINGLE HOUSEHOLD
 Quadrangle : Robards
 Surface Elevation (Ft) : 513
 Depth to Bedrock (Ft) : 10
 Total Depth (Ft) : 82
 Static Water Level (Ft) : 22
 Regulatory Program : N/R
 County : Henderson
 Latitude : 37.645599
 Longitude : -87.611677
 Scanned Document : [Click here for hyperlink provided by the agency.](#)
 Last Date in Agency List : 2017-12-01

Map Id: 335
 Direction: W
 Distance: 0.986 mi., 5205 ft.
 Elevation: 452 ft.
 Relative: Higher

Site Name : 16101065130000-46407
 37.66616, -87.623067
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41740008
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101065130000
KGS Record Number :	46407
Completion Date :	1951-11-05
Plugged Date :	N/R
Surface Elevation :	448.0
County :	HENDERSON
Farm Name :	OVERFIELD, C H
Operator :	DELTA DRILLING CO
Well Number :	5
Total Depth Formation :	333SGVV
Deepest Pay :	332WLBG
Well Classification :	Development well
Result :	Oil producer
Permit :	1416WF
Measure :	0
Vertical :	2541.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.666160
Longitude :	-87.623067
Last Date in Agency List :	2022-11-21

Map Id: 336
 Direction: ESE
 Distance: 0.987 mi., 5213 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 16101020900000-48390
 37.653476, -87.560371
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41762133
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	16101020900000
KGS Record Number :	48390
Completion Date :	N/R
Plugged Date :	N/R
Surface Elevation :	422.0
County :	HENDERSON
Farm Name :	WALKER, W H
Operator :	LOHMANN & JOHNSON DRILLING CO
Well Number :	2
Total Depth Formation :	000
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Terminated (permit expired or cancelled)
Permit :	4147WF
Measure :	0
Vertical :	0.0

Map Id: 336
 Direction: ESE
 Distance: 0.987 mi., 5213 ft.
 Elevation: 413 ft.
 Relative: Lower

Site Name : 1610102090000-48390
 37.653476, -87.560371
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41762133
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.653476
Longitude : -87.560371
Last Date in Agency List : 2022-11-21

Map Id: 337
 Direction: NW
 Distance: 0.987 mi., 5214 ft.
 Elevation: 403 ft.
 Relative: Lower

Site Name : 16101051420000-108120
 37.684969, -87.610043
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41888919
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101051420000
KGS Record Number : 108120
Completion Date : 1952-02-11
Plugged Date : 1952-02-12
Surface Elevation : 407.0
County : HENDERSON
Farm Name : ROYSTER, NANNIE MAY
Operator : CARTER OIL CO
Well Number : 1
Total Depth Formation : 333SGVV
Deepest Pay : 000
Well Classification : Development well
Result : Dry & abandoned
Permit : 2604WF
Measure : 0
Vertical : 2611.0
Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
Bore Type : Conventional vertical well bore (not intentionally deviated)
KGS Link : [Click here for hyperlink provided by the agency.](#)
Latitude : 37.684969
Longitude : -87.610043
Last Date in Agency List : 2022-11-21

Map Id: 338
 Direction: NE
 Distance: 0.990 mi., 5229 ft.
 Elevation: 458 ft.
 Relative: Higher

Site Name : 16101074270000-141170
 37.680293, -87.57912
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41783462
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101074270000
 KGS Record Number : 141170
 Completion Date : N/R
 Plugged Date : N/R
 Surface Elevation : 461.0
 County : HENDERSON
 Farm Name : CROWDER-ROYSTER UNIT
 Operator : NALLY, JOSEPH L
 Well Number : 1
 Total Depth Formation : 000
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Terminated (permit expired or cancelled)
 Permit : 108032
 Measure : 0
 Vertical : 0.0

Plot Symbol : Locations for which a permit was issued but the permit was cancelled by the operator or allowed to expire. Wells with this designation are included to enable tracking the status of permits.

Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.680293
 Longitude : -87.579120
 Last Date in Agency List : 2022-11-21

Map Id: 339
 Direction: WSW
 Distance: 0.991 mi., 5230 ft.
 Elevation: 515 ft.
 Relative: Higher

Site Name : 16101018730000-2018757
 37.657457, -87.617713
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41871521
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101018730000
 KGS Record Number : 2018757
 Completion Date : 1953-05-17
 Plugged Date : N/R
 Surface Elevation : 525.0
 County : HENDERSON
 Farm Name : CRAVENS HEIRS
 Operator : DAVIS, ROBERT & C BURY
 Well Number : 1
 Total Depth Formation : 330MSSP
 Deepest Pay : 000
 Well Classification : Unclassified
 Result : Dry & abandoned
 Permit : 4696WF
 Measure : 0
 Vertical : 2083.0

Map Id: 339
 Direction: WSW
 Distance: 0.991 mi., 5230 ft.
 Elevation: 515 ft.
 Relative: Higher

Site Name : 16101018730000-2018757
 37.657457, -87.617713
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41871521
EPA ID: N/R

OIL & GAS WELLS - KY (cont.)

Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.657457
 Longitude : -87.617713
 Last Date in Agency List : 2022-11-21

Map Id: 340
 Direction: NE
 Distance: 0.992 mi., 5237 ft.
 Elevation: 438 ft.
 Relative: Higher

Site Name : 16101046640000-27979
 37.676373, -87.574621
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41900829
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101046640000
 KGS Record Number : 27979
 Completion Date : 1983-11-30
 Plugged Date : 1983-11-30
 Surface Elevation : 439.0
 County : HENDERSON
 Farm Name : ANDERSON, MARY
 Operator : HYDRO-CARBON INVESTMENTS, INC
 Well Number : 1
 Total Depth Formation : 333MCLK
 Deepest Pay : 000
 Well Classification : Development well
 Result : Dry & abandoned
 Permit : 59271
 Measure : 0
 Vertical : 2622.0
 Plot Symbol : Dry and abandoned wells (Abnd = -1 by default)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.676373
 Longitude : -87.574621
 Last Date in Agency List : 2022-11-21

Map Id: 341
 Direction: S
 Distance: 0.994 mi., 5248 ft.
 Elevation: 397 ft.
 Relative: Lower

Site Name : 25470
 37.642217, -87.588521
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41732622
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	25470
Completion Date :	1944-08-12
Plugged Date :	1987-07-01
Surface Elevation :	398.0
County :	WEBSTER
Farm Name :	DIXON, N
Operator :	THE TEXAS CO
Well Number :	3
Total Depth Formation :	332TSPG
Deepest Pay :	332TSPG
Well Classification :	Development well
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1827.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.642217
Longitude :	-87.588521
Last Date in Agency List :	2022-11-21

Map Id: CA342
 Direction: SW
 Distance: 0.995 mi., 5257 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 2041712
 37.642796, -87.607019
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41899206
EPA ID: N/R

OIL & GAS WELLS - KY

API Number :	N/R
KGS Record Number :	2041712
Completion Date :	1945-09-25
Plugged Date :	N/R
Surface Elevation :	457.0
County :	WEBSTER
Farm Name :	KNIGHT, E
Operator :	BROWNING, I B
Well Number :	3
Total Depth Formation :	332TSPG
Deepest Pay :	000
Well Classification :	Unclassified
Result :	Oil producer
Permit :	N/R
Measure :	0
Vertical :	1896.0
Plot Symbol :	Wells completed as oil (including abandoned producers)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.642796

Map Id: CA342
 Direction: SW
 Distance: 0.995 mi., 5257 ft.
 Elevation: 434 ft.
 Relative: Higher

Site Name : 2041712
 37.642796, -87.607019
 KY
Database(s) : [OIL & GAS WELLS - KY] **(cont.)**

Envirosite ID: 41899206
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Longitude : -87.607019
 Last Date in Agency List : 2022-11-21

Map Id: CD343
 Direction: W
 Distance: 0.997 mi., 5266 ft.
 Elevation: 520 ft.
 Relative: Higher

Site Name : 20033
 37.658965, -87.619198
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41713467
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : N/R
 KGS Record Number : 20033
 Completion Date : 1953-01-06
 Plugged Date : N/R
 Surface Elevation : 516.0
 County : HENDERSON
 Farm Name : POOLE, J V
 Operator : COOK & MALOOLEY
 Well Number : 2
 Total Depth Formation : 332WLBG
 Deepest Pay : 332WLBG
 Well Classification : Development well
 Result : Oil producer
 Permit : 52078
 Measure : 0
 Vertical : 1850.0
 Plot Symbol : Wells completed as oil (including abandoned producers)
 Bore Type : Conventional vertical well bore (not intentionally deviated)
 KGS Link : [Click here for hyperlink provided by the agency.](#)
 Latitude : 37.658965
 Longitude : -87.619198
 Last Date in Agency List : 2022-11-21

Map Id: 344
 Direction: ENE
 Distance: 1.000 mi., 5278 ft.
 Elevation: 431 ft.
 Relative: Lower

Site Name : 16101014410000-10313
 37.67201, -87.563221
 KY
Database(s) : [OIL & GAS WELLS - KY]

Envirosite ID: 41874529
EPA ID: N/R

OIL & GAS WELLS - KY

API Number : 16101014410000
 KGS Record Number : 10313
 Completion Date : 1952-09-28

Map Id: 344
Direction: ENE
Distance: 1.000 mi., 5278 ft.
Elevation: 431 ft.
Relative: Lower

Site Name : 16101014410000-10313 37.67201, -87.563221 KY
Database(s) : [OIL & GAS WELLS - KY] (cont.)

Envirosite ID: 41874529
EPA ID: N/R

OIL & GAS WELLS - KY **(cont.)**

Plugged Date :	1952-09-28
Surface Elevation :	431.0
County :	HENDERSON
Farm Name :	DEVASHER, W D
Operator :	O'NEAL, C E & CO ET AL
Well Number :	1(2)
Total Depth Formation :	333SGVV
Deepest Pay :	000
Well Classification :	Development well
Result :	Dry & abandoned
Permit :	4123WF
Measure :	0
Vertical :	2629.0
Plot Symbol :	Dry and abandoned wells (Abnd = -1 by default)
Bore Type :	Conventional vertical well bore (not intentionally deviated)
KGS Link :	Click here for hyperlink provided by the agency.
Latitude :	37.672010
Longitude :	-87.563221
Last Date in Agency List :	2022-11-21

RADON DATA:

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: 42452

NUMBER OF SAMPLE SITES: No Available Data

FEDERAL EPA RADON ZONE FOR HENDERSON COUNTY: Zone = 2

Note: Zone 1 indoor average level > 4 pCi/L

: Zone 2 indoor average level > = 2 pCi/L and <= 4 pCi/L

: Zone 3 indoor average < 2 pCi/L

HIST PWS ENF

Historical Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

NWIS

National Water Information Systems

United States Geological Society

(703) 648-5953

Information on all water resources for the United States. This database contains all current and historical data for the nation.

PWS

Public Water Supply

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems

PWS ENF

Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems with enforcement violations

WELLS - KY

Water well and spring data

Kentucky Geological Survey

859.323.0524

Kentucky Groundwater Data Repository

FLOOD Q3

Flood data

Environmental Protection Agency

(202) 566-1667

Q3 Flood Data

HYDROLOGIC UNIT

Hydrologic Unit Maps

USGS

The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

WETLANDS NWI

National Wetland Inventory

U.S. Fish and Wildlife Service

(703) 358-2171

Wetland Inventory for the United States

SSURGO

Detailed Soil Data Map

Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985

Detailed Soil Data Map

STATSGO & MUI

General Soil Data Map

Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985

General Soil Data Map

USGS GEOLOGIC AGE

USGS Digital Data Series DDS

Natural Resources Conservation Service: U.S. Department of Agriculture
(202) 690-4985

USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

OIL & GAS WELLS - KY

Oil & Gas Wells

Kentucky Geological Survey

Oil and gas well locations

RADON

National Radon Database

U.S. Environmental Protection Agency

215-814-2469

A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

RADON EPA

RADON EPA

U.S. Environmental Protection Agency

215-814-2469

EPA list of Radon zones

AIRPORT FACILITIES

Airport landing facilities

Federal Aviation Administration

(866) 835-5322

Airport landing facilities

BASINS

Better Assessment Science Integrating point & Non-point Sources

U.S. Environmental Protection Agency

855-246-3642

Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

DIGITAL OBSTACLE

Obstacles of interest to aviation users

Federal Aviation Administration

855-379-6518

The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.

EPICENTERS

National Geographical Data Center

National Geographical Data Center

303-497-6826

List of recent and historic earthquakes and information.

FLOOD DFIRM

National Flood Hazard Layer Database

Federal Emergency Management Agency

The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMA's Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.

Appendix G

Regulatory Agency Documentation



Oil and Gas Well Report: 10096

Oil and Gas Well Information:

Record Number: 10096

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: 38927

Well Number: 1

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.661218, -87.576918

KY Carter Coordinates: 5-N-24 2000N, 1860W

Surface Elevation: 413 ft

Vertical Depth:

Measured (horizontal) Depth:

Operator: BERRY, RICHARD

Farm Name: MAYS, OSCAR

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 20006

Oil and Gas Well Information:

Record Number: 20006

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/0/2/0/R00020006/R00020006.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=20006>)

Permit Number:

Well Number: 1

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.656223, -87.597937

KY Carter Coordinates: 1-N-23 2250S, 600W

Surface Elevation: 418 ft

Vertical Depth: 1819 ft

Measured (horizontal) Depth:

Operator: CARTER OIL CO

Farm Name: DENTON, S T

Completion Date: 1/25/1945

Total Depth Formation: Mississippian-Tar Springs Ss

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: Pay Report

(<https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?id=20006>)

Formation Tops Data: n/a



Oil and Gas Well Report: 38868

Oil and Gas Well Information:

Record Number: 38868

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/0/3/8/R00038868/R00038868.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=38868>)

Permit Number: 6995WF

Well Number: 1

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.660943, -87.577574

KY Carter Coordinates: 5-N-24 2100N, 1670W

Surface Elevation: 417 ft

Vertical Depth: 2590 ft

Measured (horizontal) Depth:

Operator: V T DRILLING CO

Farm Name: ROYSTER, F HEIRS

Completion Date: 9/23/1955

Total Depth Formation: Mississippian-Ste. Genevieve Ls

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 47329

Oil and Gas Well Information:

Record Number: 47329

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/0/4/7/R00047329/R00047329.pdf)

Elog Link (if available): n/a

Permit Number: 65717

Well Number: 3

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.670418, -87.59545

KY Carter Coordinates: 21-O-23 1350S, 1320W

Surface Elevation: 459 ft

Vertical Depth:

Measured (horizontal) Depth:

Operator: LONG RIFLE ENERGY CORP

Farm Name: PARRISH, BILLY W

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 106486

Oil and Gas Well Information:

Record Number: 106486

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/1/0/6/R00106486/R00106486.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=106486>)

Permit Number:

Well Number: 2

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.662426, -87.595364

KY Carter Coordinates: 1-N-23 1560N, 3480E

Surface Elevation: 458 ft

Vertical Depth: 1923 ft

Measured (horizontal) Depth:

Operator: CARTER OIL CO

Farm Name: ELLIOTT, C E

Completion Date: 4/27/1946

Total Depth Formation: Mississippian-Tar Springs Ss

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: Sample Report

(<https://kgs.uky.edu/kygeode/services/oilgas/sampleReport.asp?id=106486>)

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 106487

Oil and Gas Well Information:

Record Number: 106487

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/1/0/6/R00106487/R00106487.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=106487>)

Permit Number:

Well Number: 2

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.657733, -87.598283

KY Carter Coordinates: 1-N-23 2800S, 500W

Surface Elevation: 420 ft

Vertical Depth: 2691 ft

Measured (horizontal) Depth:

Operator: CARTER OIL CO

Farm Name: DENTON, S T

Completion Date: 3/28/1946

Total Depth Formation: Mississippian-Ste. Genevieve Ls

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: Sample Report

(<https://kgs.uky.edu/kygeode/services/oilgas/sampleReport.asp?id=106487>)

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: Pay Report

(<https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?id=106487>)

Formation Tops Data: n/a



Oil and Gas Well Report: 107669

Oil and Gas Well Information:

Record Number: 107669

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/1/0/7/R00107669/R00107669.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=107669>)

Permit Number:

Well Number: 6

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.668303, -87.603984

KY Carter Coordinates: 22-O-23 580S, 1150E

Surface Elevation: 451 ft

Vertical Depth: 2597 ft

Measured (horizontal) Depth:

Operator: CARTER OIL CO

Farm Name: DENTON, S T

Completion Date: 8/2/1943

Total Depth Formation: Mississippian-Ste. Genevieve Ls

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: Pay Report

(<https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?id=107669>)

Formation Tops Data: n/a



Oil and Gas Well Report: 108161

Oil and Gas Well Information:

Record Number: 108161

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/0/1/0/8/R00108161/R00108161.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=108161>)

Permit Number: 8172WF

Well Number: 1 (2)

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.672065, -87.596832

KY Carter Coordinates: 21-O-23 1950S, 920W

Surface Elevation: 491 ft

Vertical Depth: 2387 ft

Measured (horizontal) Depth:

Operator: REDWINE, NASH

Farm Name: MILLER, C G (MCMULLIN)

Completion Date: 12/6/1956

Total Depth Formation: Mississippian-Bethel Ss

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: In Well Report PDF Document

(https://kgs.uky.edu/OG_images/0/0/1/0/8/R00108161/R00108161.pdf)

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: Pay Report

(<https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?id=108161>)

Formation Tops Data: Tops Report

(<https://kgs.uky.edu/kygeode/services/oilgas/topsReport.asp?recNum=108161>)



Oil and Gas Well Report: 108162

Oil and Gas Well Information:

Record Number: 108162

PDF Link (if available): n/a

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=108162>)

Permit Number:

Well Number: 1

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.671571, -87.596901

KY Carter Coordinates: 21-O-23 1770S, 900W

Surface Elevation: 442 ft

Vertical Depth: 2388 ft

Measured (horizontal) Depth:

Operator: MIMS, A S

Farm Name: MCMULLIN, O P

Completion Date: 11/27/1945

Total Depth Formation: Mississippian-Bethel Ss

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: Pay Report

(<https://kgs.uky.edu/kygeode/services/oilgas/payReport.asp?id=108162>)

Formation Tops Data: Tops Report

(<https://kgs.uky.edu/kygeode/services/oilgas/topsReport.asp?recNum=108162>)



Oil and Gas Well Report: 147617

Oil and Gas Well Information:

Record Number: 147617

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: 277W

Well Number: 6

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.669182, -87.603984

KY Carter Coordinates: 22-O-23 900S, 1150E

Surface Elevation:

Vertical Depth:

Measured (horizontal) Depth:

Operator: HYDROCARBON INV, INC

Farm Name: DENTON, TOM

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: Oil Production Report

(<https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?recNum=147617&prodType=oil>)

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 147670

Oil and Gas Well Information:

Record Number: 147670

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: N2603

Well Number: 1

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.660806, -87.595865

KY Carter Coordinates: 1-N-23 2150N, 1200W

Surface Elevation:

Vertical Depth:

Measured (horizontal) Depth:

Operator: COUNTRYMARK ENERGY RESOURCES, LLC

Farm Name: ELLIOTT, C E (NORTHEAST POOLE UTS UNIT)

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: Oil Production Report

(<https://kgs.uky.edu/kygeode/services/oilgas/prodReport.asp?recNum=147670&prodType=oil>)

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 151612

Oil and Gas Well Information:

Record Number: 151612

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: N22576

Well Number: UN

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.657392, -87.597844

KY Carter Coordinates: 1-N-23 2676F, 627F

Surface Elevation:

Vertical Depth:

Measured (horizontal) Depth:

Operator: UNKNOWN

Farm Name: UNKNOWN

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 156253

Oil and Gas Well Information:

Record Number: 156253

PDF Link (if available): n/a

Elog Link (if available): n/a

Permit Number: N3297

Well Number: 1

Quadrangle: ROBARDS

County: Henderson

Lat, Lon (NAD 83): 37.671705, -87.597854

KY Carter Coordinates: 21-O-23 4250N, 4200E

Surface Elevation:

Vertical Depth:

Measured (horizontal) Depth:

Operator: GEMBERLING, GARY R

Farm Name: PARRISH, BILLY

Completion Date:

Total Depth Formation: -Unknown or unassigned

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 2018724

Oil and Gas Well Information:

Record Number: 2018724

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/2/0/1/8/R02018724/R02018724.pdf)

Elog Link (if available): Display E-Log

(<https://kgs.uky.edu/kygeode/services/oilgas/elogDownload.asp?recno=2018724>)

Permit Number:

Well Number: 1

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.660723, -87.595813

KY Carter Coordinates: 1-N-23 2180N, 3610E

Surface Elevation: 436 ft

Vertical Depth: 1850 ft

Measured (horizontal) Depth:

Operator: CARTER OIL CO

Farm Name: ELLIOT, C E

Completion Date:

Total Depth Formation: Mississippian-Tar Springs Ss

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a



Oil and Gas Well Report: 2018727

Oil and Gas Well Information:

Record Number: 2018727

PDF Link (if available): PDF Document

(https://kgs.uky.edu/OG_images/0/2/0/1/8/R02018727/R02018727.pdf)

Elog Link (if available): n/a

Permit Number: 4862WF

Well Number: 1

Quadrangle: Robards

County: Henderson

Lat, Lon (NAD 83): 37.658746, -87.598801

KY Carter Coordinates: 1-N-23 2900N, 350W

Surface Elevation: 416 ft

Vertical Depth: 2696 ft

Measured (horizontal) Depth:

Operator: PORTIS, RICHARD

Farm Name: CRAVENS, JENNIE

Completion Date:

Total Depth Formation: Paleozoic-Paleozoic Era

Associated data and reports (if available):

Horizontal Survey: n/a

Core Report: n/a

Core Analysis: n/a

Sample Report: n/a

Oil Production Data: n/a

Gas Production Data: n/a

Pay Report: n/a

Formation Tops Data: n/a

21-0-23

Sec. 21 Twp. 0 Rge. 23

Serial No: 9241

Farm: S.F. Denton Well No: 2

Owner: Carter Oil Company

Address: Evansville, Indiana

Total Depth: 2385'

011

Map No: 76-2-2

Coordinate: Q-2

Sobree Quadrangle

Location: 660' N. of S.L., & 660' E. of W.L., of farm. (Scout's Loc.)
2000' N. of S.L., 4600' W. of R.L. } LAS Loc.
600' S. & 330' W. of #1 (9211)

Sec. 21 Twp. 0 Rge. 23

County: Henderson

State: Kentucky

Field: Roberts

Tools: Rotary

Comm. Drilling: 1-29-43

Comp. Drilling: 2-10-43

Elev: 455 LAS

Casing Record: 10" Casing at 193'
7" " " 2214'

0025637001



Shot with 15 qts., from 2380 to 2385'

" " 40 " " 2216 to 2219'

Perforated 3 shots 2254-2255'

Drill Stem Test 2231-2247' - Open 2 1/2 hours - Recovered 30' Oil, Gravity 33 1/2
120' Oil Cut Mud.

Initial Production: 65 barrels Oil per day (Bethel)
10 barrels Water per day (Cypress)

TOPS

No. 9 Coal

Lower Kincaid

Upper Menard

Lower Menard

Waltersburg

Vienna

Tar Springs

Lower Glen Dean

Hardinsburg

Coloona

Barlow Line

Cypress

Bethel

SAMPLE

1489'

1665'

1750-1756'

1827-1830'

1895'

2228-2232'

2233-2243' Show Oil.

ELECTRIC

275-280'

1481'

1665'

1744'

1815-1818'

1921' Water.

1960-1972'

1972' Water.

2094'

2215-2220'

2220-2230' Show Oil.

2370-2380' Show Oil.

KGS Oil and Gas Gathering Line Map
Permit Number: N1241



Oil and Gas Wells Legend:

- more info**
- coal bed methane gas well
 - ✦ dry & abandoned well
 - ✦ gas well
 - incomplete well
 - miscellaneous well
 - oil and gas well
 - oil well
 - service or secondary recovery input well
 - stratigraphic test well
 - ✦ terminated permit well
 - other well

Oil and Gas Gathering Lines Legend:

- more info**
- Oil Flow
 - Oil Gathering
 - Gas Flow
 - Gas Gathering
 - Water Injection
 - Oil and Gas Flow
 - Oil and Gas Gathering

Please Note: Gathering lines for this service last updated **Oct. 2018**. Gathering lines are maintained by the **Division of Oil and Gas**, and data updates are done for this service on a periodic basis (about once a year). Also note that the accuracy of the gathering and flow line maps are only as accurate as the data submitted to the Division of Oil and Gas by the oil and gas community.

Map Navigation: pan the map using the controls on the map edges, zoom using the map slider.

View Oil Wells: YES

Choose Oil and Gas Labels:

Baselayer:

Basemap (roads, rivers, etc) Transparency

PRINT THIS PAGE

NOTE: For best printing results, use the latest version of **Internet Explorer (v. 9)**, **Mozilla Firefox**, or **Google Chrome** browsers. In older versions of Internet Explorer (8.0 and below), the topography or imagery may not print. You will need to either upgrade your browser (if using Internet Explorer v.8 or below), use a different browser (**Mozilla Firefox** or **Google Chrome**), or use your computer's screen capture functionality.

22 records returned.

**click KGS Record # for more info about an oil and gas well (i.e.: DJVu/Elog records, scanning requests, and well sample reports)

Symbol	KGS Record #	Permit #	Well #	Result click for map zoom	TDF	DPF	Surf. Elev. (ft)	Depth (ft)	Farm	Operator	Quar
●	107538		1	oil well	St. Louis Ls		445	2744	DENTON, S T	CARTER OIL CO	Ro
●	107666		5	oil well	Paint Creek Gp	Bethel Ss	442	2380	DENTON, S T	CARTER OIL CO	Ro
●	108154	747W	2	oil well	Ste. Genevieve Ls	Bethel Ss	428	2577	GATES, SUSANNA	CARTER OIL CO	Ro
●	108162		1	oil well	Bethel Ss	Bethel Ss	442	2388	MCMULLIN, O P	MIMS, A S	Ro
●	101975	278W	1	oil well	Ste. Genevieve Ls	Benoist	449	2620	GOETZ, SUZZANNE (SUSANNA GATES)	CARTER OIL CO	Ro
●	108161	8172WF	1 (2)	oil well	Bethel Ss	Bethel Ss	491	2387	MILLER, C G (MCMULLIN)	REDWINE, NASH	Ro
□	147619	185W	1	incomplete well	Unknown or unassigned				DENTON, TOM	HYDROCARBON INV, INC	ROE
□	157756	N16668	UN	incomplete well	Unknown or unassigned				DENTON, TOM	UNKNOWN	ROE
●	25637	N1241	2	oil well	Bethel Ss	Bethel Ss	455	2385	DENTON, S T	CARTER OIL CO	Ro
●	107541	202W	3	oil well	Ste. Genevieve Ls	Bethel Ss	446	2588	DENTON, S T	CARTER OIL CO	Ro
●	107669		6	oil well	Ste. Genevieve Ls	Ste. Genevieve Ls	451	2597	DENTON, S T	CARTER OIL CO	Ro
●	100330	N1242	1	oil well	Ste. Genevieve Ls	McClosky Ls	426	2581	SELLARS, I J	CARTER OIL CO	Ro
✦	107542	6767WF	3	dry & abandoned well	Ste. Genevieve Ls		437	2706	GATES, SUSANNA	CARTER OIL CO	Ro
□	147616	747W	2	incomplete well	Unknown or unassigned				GATES, SUSANNA A	HYDROCARBON INV, INC	ROE
□	147620	222W	5	incomplete well	Unknown or unassigned				DENTON, TOM	HYDROCARBON INV, INC	ROE
□	156253	N3297	1	incomplete well	Unknown or unassigned				PARRISH, BILLY	GEMBERLING, GARY R	ROE
✦	107611	16708	3	dry & abandoned well	Salem/Warsaw Undifferentiated		446	3371	DENTON, TOM	HUMBLE OIL & REF CO	Ro
●	107667		4	oil well	Renault Ls	Renault Ls	432	2370	DENTON, S T	CARTER OIL CO	Ro
□	147617	277W	6	incomplete well	Unknown or unassigned				DENTON, TOM	HYDROCARBON INV, INC	ROE
□	47329	65717	3	incomplete well	Unknown or unassigned		459		PARRISH, BILLY W	LONG RIFLE ENERGY CORP	Ro
●	108160	4561WF	1	oil well	Ste. Genevieve Ls	McClosky Ls	433	2568	POOLE, NELLIE	F E MORAN, INC	Ro
□	147618	215W	4	incomplete well	Unknown or unassigned				DENTON, TOM	HYDROCARBON INV, INC	ROE

**click to view / download more info for all these oil and gas records (i.e.: DJVu/Elog records, scanning requests, etc..)

Appendix H

Owner Interview Documentation

OWNER INTERVIEWS TRACKING SHEET**Sebree Solar II**

Henderson County, Kentucky

Owner Entity/Contact Name	Contact Information	Attempts			Comments
		1st	2nd	3rd	
Denton William David	Phone: (270) 860-3016	3/1/2023	N/A	N/A	Sam Lucente (SL) left a voicemail on 3/1/2023; Mr. David Denton returned the call on 3/1/2023 and stated that there is a farm dump with household refuse from his grandpa in the ditch on the south end of the 61-23 parcel; one 300-gallon diesel AST with some de minimis staining near the fill area, and one non-functioning oil well on the 61-8 parcel.
Logsdon Derek H & Laura A	Phone: (270) 860 3951	3/1/2023	N/A	N/A	SL left a voicemail on 3/1/2023; SL spoke to Ms. Laura Logsdon on 3/1/2023 and stated that there is one oil well and 2 other features associated with oil production on the southern portion of the 61-21 parcel.
Wade Denton	Phone: (270) 869-7026	3/1/2023	N/A	N/A	SL left a voicemail on 3/1/2023; SL spoke to Wade Denton on 3/1/2023 and no environmental concerns were identified.
Canton William R JR & Brenda F	Phone: (270) 533-6593	3/1/2023	3/3/2023	N/A	SL left a voicemail on 3/1/2023; SL spoke to Mr. Canton on 3/3/2023 and no environmental concerns were identified.

FOR INTERNAL USE ONLY	
ECT Project Number:	
ECT Project Name:	
Date Received:	



Owner Environmental Questionnaire

INSTRUCTIONS: Please complete the following questions to the best of your knowledge. Any description pertaining to the location(s) of identified features would be greatly appreciated.

Section, Township & Range (with quarter) and/or Addresses: _____

Owner Name/Entity: _____

Contact Full Name & Affiliation: _____

Email Address: _____

Phone No.: _____

Other Site Personnel (Name & Contact Information): _____

1) How long have you owned and/or been affiliated with the property? _____

2) What are the CURRENT uses of the property? _____

3) What are the PAST uses of the property? _____

4) What is the approximate age (or construction date) and size /square footage of current structure(s)? _____

5) If the property is currently vacant or undeveloped, do you know of any prior improvements? If yes, please describe. NO YES

6) Are you aware of any current or previous wells or septic systems? If yes, please provide approximate location(s). NO YES

Owner Environmental Questionnaire



7) Do any utilities currently service the property? If yes, please specify. NO YES

8) Are you aware of any storage, use, generation, or disposal of automotive, industrial, or agricultural chemicals, batteries, solvents, petroleum products, pesticides, or related regulated chemicals? If yes, please explain. NO YES

9) Are you aware of any underground or aboveground storage tanks for any chemicals or petroleum products currently or historically located on the property? If yes, please explain and specify underground or aboveground. NO YES

10) Has the property been used as a waste landfill, dump, or disposal site? If yes, please identify and explain. NO YES

11) Are you aware of any fill material that has been placed on the property? If yes, please specify and indicate source of material. NO YES

12) Are you aware of any current or former oil or gas wells, or associated tanks/pipelines on the property? If yes, please identify and explain. NO YES

13) Are you aware of any current or former (i.e., filled) pits, ponds, or lagoons located on the property? If yes, please describe. NO YES

14) Are you aware of any past cattle dipping vats on the property? NO YES

15) Are you aware of any petroleum or hazardous waste discharges or releases to the environment, or contamination impacts to the site soil, groundwater, or surface waters? If yes, please describe. NO YES

Owner Environmental Questionnaire



16) Are you aware of any pending, threatened, or past environmental litigation, proceedings, or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the property? NO YES

17) Are you aware of any past environmental assessment report(s) prepared for the property? If yes, are you able to provide a copy of the prior report(s)? NO YES

I certify to the best of my knowledge that the above statements and facts are true and correct. To the best of my knowledge, no provided material facts have been suppressed or misstated.

Completed By: _____ Title/Company: _____
(If applicable)

Signature: _____ Date: _____

Relationship to site: _____

Please return a copy of the completed Owner Environmental Questionnaire form to **Environmental Consulting & Technology, Inc (ECT)** at:

Email (preferred):	LLandin@ectinc.com
Fax:	517-272-9703
Mailing Address:	ECT, Attn: Lisa Zuber 3125 Sovereign Drive Suite 9C Lansing, MI 48911-4240
Questions? Please contact Lindsay Landin with ECT at 717-799-7960.	



WANT TO COMPLETE ELECTRONICALLY?

Please scan the QR code with your smartphone camera to be directed to the online form, or go to: <https://forms.office.com/r/Xgm2P6enzr>

FOR INTERNAL USE ONLY	
ECT Project Number:	
ECT Project Name:	
Date Received:	



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(If applicable)

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Email (preferred):	LLandin@ectinc.com
Fax:	517-272-9703
Mailing Address:	ECT, Attn: Lisa Zuber 3125 Sovereign Drive Suite 9C Lansing, MI 48911-4240
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FOR INTERNAL USE ONLY	
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Signature: _____ Date: _____

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Email (preferred):	LLandin@ectinc.com
Fax:	517-272-9703
Mailing Address:	ECT, Attn: Lisa Zuber 3125 Sovereign Drive Suite 9C Lansing, MI 48911-4240
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Appendix I

State/Local Interview Documentation

Freedom of Information Act (FOIA) Requests Tracking Sheet

Sebree II Solar (New Parcels)

Henderson County, Kentucky

Agency Name	Contact Name & Title (if known)	Method of Inquiry	Attempts			Comments
			1st	2nd	3rd	
STATE AGENCIES						
Kentucky Energy and Environment Cabinet (EEC)	Open Records Email System	EEC.KORA@ky.gov	3/8/2023	N/A	N/A	Confirmation of receipt issued 03/08/2023. On March 13, 2013 EEC requested additional information, which ECT provided on March 14, 2023. On March 21, 2023, ECT received a response containing documentation pertaining to Permit N1241.
COUNTY AGENCIES						
Green River District Health Department	Clayton Horton, Public Health Director	Clayton.Horton@grhd.org	2/23/2023	N/A	N/A	Information sent on behalf of Mr. Clayton received on February 28, 2023, indicated a septic system was installed and inspected on Parcel 61-8.1 (8619 Thomason Road) in 1996. No other records were identified.
MUNICIPAL/LOCAL AGENCIES						
Robards Community Fire Department	Chief W. David Denton & Assistant Chief Lance Wayne	w_denton@bellsouth.net ; tristatetowtruck12@gmail.com	2/23/2023	N/A	N/A	On February 23, Mr. Denton indicated that, other than medical runs, only one fire was reported in the last ten years, which consisted of a tractor fire that occurred on Parcel 61-8 in December 2020.

Guadalupe Cummins-Sanchez

From: Taylor, David M (EEC) <David.Taylor@ky.gov>
Sent: Tuesday, March 21, 2023 2:44 PM
To: Guadalupe Cummins-Sanchez
Subject: FW: EEC - Open Records Request (FOIA)
Attachments: N1241 Production Report.pdf; N1241 rptInspectionReport.pdf; N1241 rptWellListing.pdf; N1241 Temp Abandonment Plan.pdf; N1241 Transfer File 1.pdf; N1241 Transfer File 2.pdf; N1241 Transfer File 3.pdf; N1241 Transfer File 4.pdf; N1241 Violations.pdf; N1241 Correspondence.pdf; N1241 Map.pdf; Groundwater Repository Website.doc

Ms. Cummins,

The Energy and Environment Cabinet received your request, and I have attached your documents to this response. I also attached a link to the KGS website in case you should want to check it out. If you have any questions or concerns, please don't hesitate to let us know at the contact information below.

Thank you, and have a great week.

** If you wish to appeal this decision, you may do so by filing a complaint with the Attorney General's Office, Open Records/Open Meetings Division, The Capitol, 700 Capitol Avenue, Suite 118, Frankfort, KY 40601, pursuant to KRS 61.880(2), or by filing an original civil action in the appropriate circuit court under KRS 61.882. If you first appeal to the Attorney General but are dissatisfied with the Attorney General's decision, you may further appeal to circuit court pursuant to KRS 61.880(5).

Mike Taylor

Public Records Branch - Open Records Section
Office of Administrative Services
Division of Information Services
Energy and Environment Cabinet
300 Sower Blvd - 1 SE WK #9
EEC.KORA@ky.gov

From: Necaise, Jodie (EEC) <jodie.necaise@ky.gov>
Sent: Tuesday, March 21, 2023 1:06 PM
To: Taylor, David M (EEC) <David.Taylor@ky.gov>
Subject: FW: EEC - Open Records Request (FOIA)

Mike

The attached records are for Location No. 1.

For Location No. 2 we have no additional data. It is not in our database. What is out on the Kentucky Geological Survey is all the data known about the well.

Jodie Necaise
Division of Oil & Gas



From: Guadalupe Cummins-Sanchez <gcummins@ectinc.com>
Sent: Wednesday, March 8, 2023 5:14 PM
To: EEC DEP KORA <EEC.KORA@ky.gov>
Subject: EEC - Open Records Request (FOIA)

Good afternoon,

We are conducting an *Phase I Environmental Site Assessment* for a subject property in Henderson County Kentucky. Thus, this request has the commercial purpose of completing this environmental assessment.

I am requesting information pertaining to two (2) **enhanced injection oil wells** associated with our assessment area, specifically:

Location #1

- **Parcel # 61-23**
- **Address: 8660 THOMASON RD, Robards 42452**
- Site Name: Country Mark Energy Resources
- EPA ID: KYS 1010139
- Coordinates: 37.665796, -87.598897
- The site was listed in the *Underground Injection Control Listing Database* maintained by the Kentucky Geological Survey

Location #2

- **Parcel # 60-30.2**
- **Address: 8597 THOMASON RD, Robards 42452**
- Site Name: Hydrocarbourn Investments, Inc
- EPA ID: KYS 1010376
- Coordinates: 37.671205, -87.600264
- The site was listed in the *Underground Injection Control Listing Database* maintained by the Kentucky Geological Survey

We are hoping to receive any available records for this area (via email preferred). If you have any questions, you can reach me at: 313-282-1297 or gcummins@ect.com

Thank you,

Guadalupe Cummins

Site Assessment & Remediation

C: 313-282-1297

Guadalupe Cummins-Sanchez

From: Guadalupe Cummins-Sanchez
Sent: Tuesday, March 14, 2023 9:30 AM
To: Necaïse, Jodie (EEC)
Cc: Taylor, David M (EEC)
Subject: RE: Open Records Request

Jodie,

Thank you for your reply.

The information I have available, which originates from a records report by EnviroSite that listed data from the UIC – KY database, lists the permit number only for the site on Parcel # 60-30.2 -- – KGS Permit # N1241 (API 16101003870000 or KY Record #25637). The record does not have a plugged date, but lists the well as inactive/shut in status.

The information I have for the second well, on Parcel 61-23, lacks a permit number, API number, date of completion/plugged, etc. This well is listed as 'active.' There are two sets of coordinates listed (they plot on the same location) --37.665796, -87.598897 and 37.665789, -87.598892.

I appreciate any information you are able to locate, particularly on the well on Parcel 61-23.

Regards,

Guadalupe Cummins

Site Assessment & Remediation

C: 313-282-1297



From: Necaïse, Jodie (EEC) <jodie.necaïse@ky.gov>
Sent: Tuesday, March 14, 2023 8:16 AM
To: Guadalupe Cummins-Sanchez <gcummins@ectinc.com>
Cc: Taylor, David M (EEC) <David.Taylor@ky.gov>
Subject: FW: Open Records Request

From: Necaïse, Jodie (EEC)
Sent: Monday, March 13, 2023 11:26 AM
To: gcummins@ect.com
Cc: Taylor, David M (EEC) <David.Taylor@ky.gov>
Subject: Open Records Request

Mr. Cummins

Neither EPA ID is in our database to pull records. It is possible that these wells were plugged by the EPA and never entered into our database. Can you provide the State Permit Number for these 2 wells?

Jodie Necaie
Division of Oil & Gas
Direct Line: (502) 782-0162



Guadalupe Cummins-Sanchez

From: Guadalupe Cummins-Sanchez
Sent: Wednesday, March 8, 2023 5:14 PM
To: EEC.KORA@ky.gov
Subject: EEC - Open Records Request (FOIA)

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Guadalupe Cummins

Site Assessment & Remediation

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Regards,

Guadalupe Cummins

Site Assessment & Remediation

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Cc: Taylor, David M (EEC) <David.Taylor@ky.gov>
Subject: Open Records Request

Mr. Cummins

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Jodie Necaise
Division of Oil & Gas
Direct Line: (502) 782-0162



Guadalupe Cummins-Sanchez

From: EEC DEP KORA <EEC.KORA@ky.gov>
Sent: Wednesday, March 8, 2023 5:14 PM
To: Guadalupe Cummins-Sanchez
Subject: Automatic reply: EEC - Open Records Request (FOIA)

The Energy and Environment Cabinet ("EEC") is in receipt of your open records request. Public agencies have five business days to provide an initial response, excluding weekends and holidays, in accordance with KRS 61.872(5). In addition, please note that requests submitted after regular business hours will be considered as received on the following business morning. If the records are readily accessible, they will be produced on or before the fifth business day. If the records are not immediately available, you will be issued a response advising when the EEC anticipates final production of the records.

Thank you

1273752



ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

Department for Natural Resources
Division of Oil and Gas Conservation
Post Office Box 2244
Frankfort, Kentucky 40602
Phone (502) 573-0147 Fax (502) 573-1099
www.kentucky.gov

Teresa J. Hill
Secretary

Susan C. Bush
Commissioner

August 29, 2007

HYDROCARBON INV, INC
PO BOX 5167
EVANSVILLE, IN 47716

Re: Permit N1241 DENTON, TOM Well 2, Henderson County
Location: 22-O-23 1650FSL 50FEL

Dear Sir:

Please be advised that your request for a temporary abandonment permit on the above referenced well was approved on August 29, 2007. This temporary abandonment permit will expire on February 07, 2008.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeana S. Hopkins".

Jeana S. Hopkins
Division of Oil and Gas Conservation

CC: Inspector Cyrus Britt, Phone:270-824-7523
Inspector Jennifer Miller, Phone:270-577-2480

1308748

1308748

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Steven L. Beshear
Governor

Department for Natural Resources
Division of Oil and Gas Conservation
Post Office Box 2244
Frankfort, Kentucky 40601
Phone (502) 573-0147 Fax (502) 573-1099
www.dogc.ky.gov

Robert D. Vance
Secretary

Susan C. Bush
Commissioner

April 07, 2008

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725

Re: Permit N1241 DENTON, TOM Well 2, Henderson County
Location: 22-O-23 1650FSL 50FEL

Dear Sir:

Please be advised that your request for a temporary abandonment permit on the above referenced well was approved on April 07, 2008. This temporary abandonment permit will expire on August 19, 2008.

Sincerely,



Michael M. Steen
Division of Oil and Gas Conservation

CC: Inspector Cyrus Britt, Phone:270-824-7523
Inspector Jennifer Miller, Phone:270-577-2480

1704460

RYAN CARBON INV, INC (DP# 2646)

Denton Lease

Gathering System Map

Henderson County, KY.

22-O-23 & 21-O-23

RECEIVED

JAN 03 2019

DIVISION OF OIL & GAS

ALL LINES ARE 2" STEEL.

108520
1757-W

Q 532 Rose St, Lexington, KY X

1:9,028

POWERED BY
esri



Production by Year by Permit

3/21/2023

PERMIT N1241 **Operator** HYDROCARBON INV, INC

Well DENTON, TOM 2 **County** Henderson

OIL

Year	Formation	BBLs	Operator	PurchaserNo
1994	Commingled	12.1	4072 UNIVERSAL OPERATING, INC	24130
1995	Commingled	21.9	4072 UNIVERSAL OPERATING, INC	24130
1996	Commingled	19.6	4072 UNIVERSAL OPERATING, INC	24130
1997	Commingled	12.4	4072 UNIVERSAL OPERATING, INC	24130
1998	Commingled	22	4072 UNIVERSAL OPERATING, INC	24130
1999	Commingled	12.8	4072 UNIVERSAL OPERATING, INC	24130
2000	Unknown	0	4072 UNIVERSAL OPERATING, INC	241300000000005
2001	Unknown	0	4072 UNIVERSAL OPERATING, INC	241300000000005
2002	Unknown	0	4072 UNIVERSAL OPERATING, INC	241300000000001
2003	Unknown	0	4072 UNIVERSAL OPERATING, INC	241300000000005
2004	Unknown	0	4072 UNIVERSAL OPERATING, INC	241300000000003
2005	Unknown	7	2696 HYDROCARBON INV, INC	241300000000005
2006	Unknown	10	2696 HYDROCARBON INV, INC	241300000000011
2006	Unknown	10	2696 HYDROCARBON INV, INC	241300000000003
2007	Unknown	0	2696 HYDROCARBON INV, INC	241300000000003
2008	Unknown	0	2696 HYDROCARBON INV, INC	24130
2009	Unknown	0	2696 HYDROCARBON INV, INC	SHUT IN 2413016
2009	Unknown	0	2696 HYDROCARBON INV, INC	SHUT IN 2413004
2009	Unknown	0	2696 HYDROCARBON INV, INC	SHUT IN 2413010
2009	Unknown	0	2696 HYDROCARBON INV, INC	SHUT IN 2413022
2018	Unknown	0	2696 HYDROCARBON INV, INC	24130

127.8

Inspection Report

Inspection Number: BR000003537

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Brian Reynolds **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo: ROBARDS

GPS:

Inspection Date: 1/21/2022

Severed Minerals: No

Date Received: 1/27/2022 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Abandoned

Post Complete Reclaim:

Injection Press: **Date TD:**

Post Plugging: No

Annulus Press: **Full:** No

Severed Completion: No

Date Plugged: **Partial:** No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

KRS 353.550	Improperly abandoned (Not producing or plugged)
-------------	---

Illegal Operator:

Comment

T-BLOCK
CASING AND TUBING
IA

Complaint

Inspection Report

Inspection Number: BR000000474

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Brian Reynolds **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo: ROBARDS

GPS:

Inspection Date: 5/14/2019

Severed Minerals: No

Date Received: 5/23/2019 **Well Type:** Steam Injection

PreDrilling: No

TA Expires: **Well Status:** Shut-In

Post Complete Reclaim:

Injection Press:

Date TD:

Post Plugging: No

Annulus Press:

Full: No

Severed Completion: No

Date Plugged:

Partial: No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

KYS1010376,1 gate valve, Hydrocarbon provided documentation well passed MIT on 4/22/10, no leaks observed

plughing instructions

Complaint

Inspection Report

Inspection Number: BC000009928

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Cyrus Britt **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo ROBARDS

GPS:

Inspection Date: 10/26/2017

Severed Minerals: No

Date Received: 11/2/2017 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Active Other

Post Complete Reclaim:

Injection Press: **Date TD:**

Post Plugging: No

Annulus Press: **Full:** No

Severed Completion: No

Date Plugged: **Partial:** No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

still trying to obtain correct pressure on backside to complete mit test

Complaint

Inspection Report

Inspection Number: CB000006577

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Cyrus Britt **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo ROBARDS

GPS:

Inspection Date: 9/28/2017

Severed Minerals: No

Date Received: 10/16/2017 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Active Other

Post Complete Reclaim:

Injection Press:

Date TD:

Post Plugging: No

Annulus Press:

Full: No

Severed Completion: No

Date Plugged:

Partial: No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

nitro bottle expired will redo asap

Complaint

Inspection Report

Inspection Number: BC000008855

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Bert Combs **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo ROBARDS

GPS:

Inspection Date: 12/20/2016

Severed Minerals: No

Date Received: 1/5/2017 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Shut-In

Post Complete Reclaim:

Injection Press:

Date TD:

Post Plugging: No

Annulus Press:

Full: No

Severed Completion: No

Date Plugged:

Partial: No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

Complaint

No violations observed\
Well shut-in; need updated TA
2" upset tubing x 2" changeover nipple x 2"
gate valve.

Inspection Report

Inspection Number: JMM00003412

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Other

Location:

Purpose: Violation Follow-up

Topo ROBARDS

GPS:

Inspection Date: 12/3/2010

Severed Minerals: No

Date Received: 12/17/2010 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: 12/3/2011 **Well Status:** Temporarily Abandoned

Post Complete Reclaim:

Injection Press:

Date TD:

Post Plugging: No

Annulus Press:

Full: No

Severed Completion: No

Date Plugged:

Partial: No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: Yes

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

T.A. Permit granted, good wellhead integrity, well shut-in with 2" gate valve, according to operator well passed MIT 4/22/10

Complaint

Inspection Report

Inspection Number: JMM00003019

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Violation Follow-up

Topo: ROBARDS

GPS:

Inspection Date: 5/13/2010

Severed Minerals: No

Date Received: 5/17/2010 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Abandoned

Post Complete Reclaim:

Injection Press:

Date TD:

Post Plugging: No

Annulus Press:

Full: No

Severed Completion: No

Date Plugged:

Partial: No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: Yes

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

KYS1010376,1 gate valve, Hydrocarbon provided documentation well passed MIT on 4/22/10, no leaks observed

Complaint

Inspection Report

Inspection Number: JMM00002888

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo: ROBARDS

GPS:

Inspection Date: 3/25/2010

Severed Minerals: No

Date Received: 3/29/2010 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Abandoned

Post Complete Reclaim:

Injection Press: **Date TD:**

Post Plugging: No

Annulus Press: **Full:** No

Severed Completion: No

Date Plugged: **Partial:** No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

TA expired, SRI well still abandoned, hose detached

Complaint

Inspection Report

Inspection Number: JMM00001571

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo ROBARDS

GPS:

Inspection Date: 4/7/2008

Severed Minerals: No

Date Received: 3/31/2008 **Well Type:**

PreDrilling: No

TA Expires: 8/19/2008 **Well Status:**

Post Complete Reclaim:

Injection Press: **Date TD:**

Post Plugging: No

Annulus Press: **Full:** No

Severed Completion: No

Date Plugged: **Partial:** No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

Complaint

Inspection Report

Inspection Number: JMM00001233

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo ROBARDS

GPS:

Inspection Date: 8/7/2007

Severed Minerals: No

Date Received: 8/29/2007 **Well Type:**

PreDrilling: No

TA Expires: 2/7/2008 **Well Status:** Temporarily Abandoned

Post Complete Reclaim:

Injection Press:

Date TD:

Post Plugging: No

Annulus Press:

Full: No

Severed Completion: No

Date Plugged:

Partial: No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

Complaint

Inspection Report

Inspection Number: JMM00001180

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Complaint Response

Location:

Purpose: Normal Status Check

Topo: ROBARDS

GPS:

Inspection Date: 5/25/2007

Severed Minerals: No

Date Received: 5/29/2007 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Abandoned

Post Complete Reclaim:

Injection Press: **Date TD:**

Post Plugging: No

Annulus Press: **Full:** No

Severed Completion: No

Date Plugged: **Partial:** No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

KRS 353.550 Improperly abandoned (Not producing or plugged)

Illegal Operator:

Comment

Improperly Abandoned SRI, complaint from Mrs. Konsler-owner, 5 1/2" swaged to 7" to 2", 4 gate valves, hose diconnected, GPS N37.67128 W87.60017 22O23 1680S 49E

Complaint

Inspection Report

Inspection Number: JMM00000113

Permit#: N1241 **API#:** 16101003870000 **Comp:** HYDROCARBON INV, INC

Inspector: Jennifer Miller **Lease Name:** DENTON, TOM

Well #: 2 **Cty:** Henderson

Type: Routine/Periodic

Location:

Purpose: Normal Status Check

Topo ROBARDS

GPS:

Inspection Date: 10/4/2005

Severed Minerals: No

Date Received: 10/17/2005 **Well Type:** Secondary Recovery Inj

PreDrilling: No

TA Expires: **Well Status:** Active Injection

Post Complete Reclaim:

Injection Press: **Date TD:**

Post Plugging: No

Annulus Press: **Full:** No

Severed Completion: No

Date Plugged: **Partial:** No **To**

Severed Plugging: No

Witnessed: No

Clear Violation: No

Casing Info Type Pipe Top Bottom Length Dia Hole Dia. Sacks Csg Recd Dt Recd Dt Mod

Violations

Illegal Operator:

Comment

SRI not an Oil well - ,
No violations observed,
GPS N37 40.278 W87 36.009

Complaint

Well Listing

3/21/2023

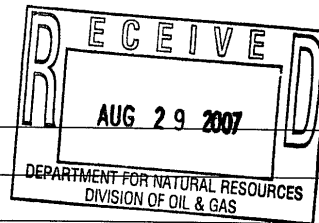
N1241 Type: SRI Status: ABD Op: HYDROCARBON INV, INC (2696)
DENTON, TOM #2 Depth: 2391 Bond: IC8227220
Henderson County Topo: ROBARDS Carter Coord: 22-O-23 1650FSL 50FEL
SRI WELL, ALL RECORDS ON FILE, IA VIOLATION, NEED INSP CLEARANCE, TRANS FROM
UNIVERSAL OPERATING INC 1/17/2006

1273763

DEPARTMENT OF MINES AND MINERALS
DIVISION OF OIL AND GAS
P. O. BOX 2244
FRANKFORT, KY 40601
Phone (502) 573-0147



TEMPORARY ABANDONMENT PERMIT



PERMIT NO. N1241
OPERATOR: HYDROCARBON INVESTMENTS, INC.
ADDRESS: P. O. BOX 5167
E-MAIL: _____

LEASE (FARM): TOM DENTON WELL NO. 2

LOCATION: 1650 FNL FEL
 FSL 50 FWL 22 SEC. 0 LTR. 23 NO.

COUNTY: HENDERSON TOTAL DEPTH: 2391

CASING SIZE: 7" CASING DEPTH 2391

CASING CEMENTED WITH 600 BAGS OF CEMENT: FROM Top TO 2391

CASING IS SEALED AT TOP BY: Casinghead, packing, and polish rod.

THE REASON FOR A REQUEST FOR TEMPORARY ABANDONMENT IS:

This lease is being evaluated by a geologist.

THE LEASE ON THIS PROPERTY EXPIRES: HELD BY PRODUCTION

THE AMOUNT OF TIME NEEDED FOR THIS TEMPORARY ABANDONMENT PERMIT: 1 YEAR 6 mos.

I, THE OPERATOR OF THE ABOVE NAMED LEASE, HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND ACCURATE ON THIS DATE, AND REQUEST A TEMPORARY ABANDONMENT PERMIT BE APPROVED.

Craig Kendall, Inc. PRESIDENT
OPERATOR'S SIGNATURE TITLE
(IF AN INDIVIDUAL) (IF A CORPORATION, THE SIGNEE MUST GIVE A POSITION TITLE.)

THIS TEMPORARY ABANDONMENT PERMIT IS APPROVED AND SHALL EXPIRE: 2/7/2008

Jennifer Miller
INSPECTOR, DIVISION OF OIL AND GAS



DEPARTMENT OF MINES AND MINERALS
DIVISION OF OIL AND GAS
P. O. BOX 2244
FRANKFORT, KY 40601
Phone (502) 573-0147

1308747



TEMPORARY ABANDONMENT PERMIT

PERMIT NO. N1241
OPERATOR: HYDROCARBON INVESTMENTS, INC.
ADDRESS: 7235 N. GREEN RIVER ROAD., EVANSVILLE, IN 47725
E-MAIL: hydrocarboninvestments@hotmail.com

LEASE (FARM): TOM DENTON WELL NO. 2

LOCATION: 1650 FNL FEL
 FSL 50 FWL 22 SEC. 0 LTR. 23 NO.

COUNTY: HENDERSON TOTAL DEPTH: 2391

CASING SIZE: 7" CASING DEPTH 2391

CASING CEMENTED WITH 600 BAGS OF CEMENT: FROM Top TO 2391

CASING IS SEALED AT TOP BY: Casinghead, packing, and polish rod.


THE REASON FOR A REQUEST FOR TEMPORARY ABANDONMENT IS:

This lease is being evaluated by a geologist.

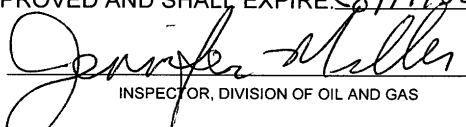
THE LEASE ON THIS PROPERTY EXPIRES: HELD BY PRODUCTION

THE AMOUNT OF TIME NEEDED FOR THIS TEMPORARY ABANDONMENT PERMIT: 1 YEAR 5mos.

I, THE OPERATOR OF THE ABOVE NAMED LEASE, HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND ACCURATE ON THIS DATE, AND REQUEST A TEMPORARY ABANDONMENT PERMIT BE APPROVED.

MAR 31 2008

OPERATOR'S SIGNATURE _____ TITLE _____
(IF AN INDIVIDUAL) (IF A CORPORATION, THE SIGNEE MUST GIVE A POSITION TITLE.)

THIS TEMPORARY ABANDONMENT PERMIT IS APPROVED AND SHALL EXPIRE: 8/19/08


INSPECTOR, DIVISION OF OIL AND GAS



1421006



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Natural Resources
Division of Oil and Gas
Post Office Box 2244
Frankfort, KY 40602
Phone: (502) 573-0147 Fax: (502) 573-1099
www.dogc.ky.gov

Leonard K. Peters
Secretary

December 17, 2010

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725

Re: Permit N1241 DENTON, TOM Well 2, Henderson County
Location: 22-O-23 1650FSL 50FEL

Dear Sir:

Please be advised that your request for a temporary abandonment permit on the above referenced well was approved on December 17, 2010. This temporary abandonment permit will expire on December 03, 2011.

Sincerely,

A handwritten signature in cursive script that reads "Nicole Allison".

Nicole Allison
Division of Oil and Gas

CC: Inspector Cyrus Britt, Phone:270-824-7523
Inspector Jennifer Miller, Phone:270-577-2480

1421007

DEPARTMENT OF MINES AND MINERAL RESOURCES
DIVISION OF OIL AND GAS
P. O. BOX 2244
FRANKFORT, KY 40601
Phone (502) 573-0147



TEMPORARY ABANDONMENT PERMIT

PERMIT NO. N1241
OPERATOR: HYDROCARBON INVESTMENTS, INC.
ADDRESS: 7235 N. GREEN RIVER ROAD., EVANSVILLE, IN 47725
E-MAIL: hydrocarboninvestments@hotmail.com

LEASE (FARM): TOM DENTON WELL NO. 2

✓ LOCATION: 1650 FNL FEL
 FSL 50 FWL 22 SEC. 0 LTR. 23 NO.

COUNTY: HENDERSON TOTAL DEPTH: 2391

CASING SIZE: 7" CASING DEPTH 2391

CASING CEMENTED WITH 600 BAGS OF CEMENT: FROM Top TO 2391

CASING IS SEALED AT TOP BY: Casinghead, packing, and ~~petish red~~ 2" gate valve 9M

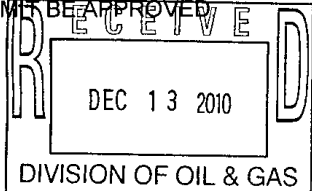
THE REASON FOR A REQUEST FOR TEMPORARY ABANDONMENT IS:

This lease is being evaluated by a geologist.

THE LEASE ON THIS PROPERTY EXPIRES: HELD BY PRODUCTION

THE AMOUNT OF TIME NEEDED FOR THIS TEMPORARY ABANDONMENT PERMIT: 1 YEAR

I, THE OPERATOR OF THE ABOVE NAMED LEASE, HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND ACCURATE ON THIS DATE, AND REQUEST A TEMPORARY ABANDONMENT PERMIT BE APPROVED



Craig Randall Bretherton PRESIDENT 11/09/10
OPERATOR'S SIGNATURE TITLE
(IF AN INDIVIDUAL) (IF A CORPORATION, THE SIGNEE MUST GIVE A POSITION TITLE.)

THIS TEMPORARY ABANDONMENT PERMIT IS APPROVED AND SHALL EXPIRE: 12/3/2011

Jeanne Miller
INSPECTOR, DIVISION OF OIL AND GAS



Center Oil Co.



162897

HUMBLE OIL & REFINING COMPANY

EVANSVILLE, INDIANA 47712

February 4, 1969

PRODUCTION DEPARTMENT
EVANSVILLE DISTRICT
B. M. BRADLEY
SUPERVISOR

2010 WEST OHIO ST.
TELEPHONE 425-4381

RECEIVED
FEB 6 1969
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

Commonwealth of Kentucky
Department of Mines & Minerals
P. O. Box 680
Lexington, Kentucky 40501

Attention: Mr. Frank H. Walker

Gentlemen:

Attached is a list showing wells sold by Humble to Morris P. Youngblood as of August 1, 1966. This list reflects all pertinent data necessary for transfer from our blanket bond.

Please advise when your records show the transfer of these wells from our blanket bond.

Yours very truly,

B. M. BRADLEY

By:

J. T. Horsley

JTH(WDM):hk
Attachment

AMERICA'S LEADING ENERGY COMPANY

EVANSVILLE DISTRICT

TELEPHONE 425-4381

162898

WELLS SOLD BY HUMBLE OIL & REFINING CO.

LEASE AND WELL NO.

LOCATION

Sold to Morris P. Youngblood, S.E. 3rd Street, Evansville, Indiana
as of August 1, 1966

Poolo Cons. Field, Kentucky (Henderson County)

-Denton Community No. 1	NE NE SE Sec. 22-0-23
-Jennie Denton No. 1	SE SW NW Sec. 21-0-23
-Jennie Denton No. 2-W	SW NE NW Sec. 21-0-23
-Jennie Denton No. 3	NE SE NE Sec. 22-0-23
-Tom Denton No. 1-W	NE NW SW Sec. 21-0-23
-Tom Denton No. 2	NW NW SW Sec. 21-0-23
-Tom Denton No. 3	NE NE SE Sec. 22-0-23
-Tom Denton No. 4	SW SE NW Sec. 21-0-23
-Tom Denton No. 5-W	NE NE SE Sec. 22-0-23
-Tom Denton No. 6	SE NW SE Sec. 22-0-23
-Susanna A. Gates No. 1	SE NW SE Sec. 22-0-23
-Susanna A. Gates No. 2	NE NE SE Sec. 22-0-23
-Susanna A. Gates No. 3	Sec. 22-0-23
-T. J. Sellers No. 1	SW SE NE Sec. 22-0-23

162899

OILFIELD PRODUCERS, INC.

1204 FIRST AVENUE • EVANSVILLE, INDIANA 47710 • PHONE 424-2908

RECEIVED
APR 16 1969
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

April 15, 1969

Mr. Frank H. Walker
Department of Mines and Minerals
Division of Oil and Gas
P. O. Box 680
Lexington, Kentucky 40501

Dear Mr. Walker:

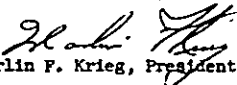
Humble Oil & Refining Company asked Mr. Morris P. Youngblood to provide the Division of Oil & Gas with certain permit numbers. Attached is a list of these numbers. Numbers were not available for the Tom Denton No. 2 which was drilled in January, 1943 and for the I. J. Sellars No. 1 which was drilled in January, 1945.

Oilfield Producers, Inc. is the present operator of these wells for Mr. Youngblood and should be included under our Kentucky blanket bond.

If there are any questions, please advise.

Very truly yours,

OILFIELD PRODUCERS, INC.


Marlin F. Krieg, President

MFK:wke

Enc.

Sold to Morris P. Youngblood, S. E. 2nd Street, Evansville, Indiana as of August 1, 1966

<u>LEASE NAME</u>	<u>WELL NO.</u>	<u>LOCATION</u>	<u>PERMIT NO.</u>	<u>REMARKS</u>
Denton Community	1 ✓	NE NE SE Sec. 22-0-23	1857N	
Jennie Denton	1 ✓	SE SW NW Sec. 21-0-23	1971N	
	2 ✓	SW NE NW Sec. 21-0-23	2081N	
	3 ✓	NE SE NE Sec. 22-0-23	2266N	Completed as dry hole 5-8-43
Tom Denton	1 ✓	NE NW SW Sec. 21-0-23	185N	
	2 ✓	NW NW SW Sec. 21-0-23	---	
	3 ✓	NE NE SE Sec. 22-0-23	1422N	
	4 ✓	SW SE NW Sec. 21-0-23	215N	
	5 ✓	NE NE SE Sec. 22-0-23	2221N	
	6 ✓	SE NW SE Sec. 22-0-23	2991W	
Susanna A. Gateo	1 ✓	SE NW SE Sec. 22-0-23	2771N	
	2 ✓	NE NE SE Sec. 22-0-23	2401W	
	3 ✓	Sec. 22-0-23	6981WF	Completed as dry hole 6-29-65
I. J. Sellars	1	SW SE NE Sec. 22-0-23	---	162900

162901

April 17, 1969

Oilfield Producers, Incorporated
1204 First Avenue
Evansville, Indiana 47710

Gentlemen:

This is to advise you that we have this date transferred from Humble Oil and Refining Company to yourselves and placed under your bond, the below listed wells, all of which are located in 21 and 22-O-23, Henderson County.

Denton Community No. 1, Permit No. 1757W
Jennie Denton No. 1, Permit No. 197W
Jennie Denton No. 2, Permit No. 203W
Tom Denton No. 1, Permit No. 185W
Tom Denton No. 2, Permit, None
Tom Denton No. 4, Permit No. 215W
Tom Denton No. 5, Permit No. 225W
Tom Denton No. 6, Permit 277W
Susanna A. Gates No. 1, Permit No. 278W
Susanna A. Gates No. 2, Permit No. 747W
I. J. Sellers No. 1, Permit None.

The three dry holes listed were not transferred.

Sincerely yours,

FRANK H. WALKER, DIRECTOR
Division of Oil and Gas

FHW:lmh

CC: Humble Oil & Refining Company
Inspector Joe Lander

C
O
P
Y

162939

FAIRWAY PETROLEUM CORPORATION
225 SYCAMORE STREET
EVANSVILLE, INDIANA 47708
TELEPHONE 424-3887

RECEIVED
OCT 17 1969
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

October 16, 1969

Mr. Frank Walker, Director ✓
Division of Oil & Gas
Department of Mines & Minerals
P. O. Box 680
Lexington, Kentucky 40501

Mr. Gordon F. Fix, Ass't. Director
Division of Oil & Gas
606 State Office Building
Indianapolis, Indiana 46204

Re: Change in Operator-Surety Bond

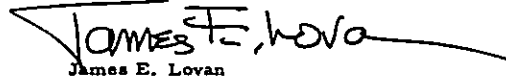
Gentlemen:

This is to advise you that Capitol Oil, Inc., c/o Fairway Petroleum Corp.,
225 Sycamore Street, Evansville, Indiana, 47708, has acquired the
operating responsibility for the oil producing properties indicated on the
attached list.

Please take the necessary action to transfer Surety Bond coverage from
the present operator to Fairway's blanket bond.

Very truly yours,

FAIRWAY PETROLEUM CORPORATION


James E. Lovan

JEL:blj
cc: Capitol Oil File
MCF-AFP
JEL

266-2418

162910

INDIANA

<u>Lease</u>	<u>Location</u>	<u>Operator</u>
Julian	Pike County	Oilfield Producers or Oilfield Research
<u>St. Meinrad Unit</u>		
Dilger	Spencer County	Oilfield Producers or Oilfield Research
Wagner	Spencer County	Oilfield Producers or Oilfield Research
Auffart	Spencer County	Oilfield Producers or Oilfield Research
Vonderheide	Spencer County	Oilfield Producers or Oilfield Research

KENTUCKY

Smokey Water Flood Unit	Daviess County	Oilfield Producers
Joseph L. Rudy	Daviess County	Oilfield Producers
Tom Denton	Henderson County	Oilfield Producers
Denton Comm.	Henderson County	Oilfield Producers
Susan Gates Denton	Henderson County	Oilfield Producers
Liggett	Henderson County	Oilfield Producers

162941

October 17, 1969

Fairway Petroleum Corporation
Attention: Mr. James E. Lovan
225 Sycamore Street
Evansville, Indiana 47708

C
O
P
Y

Gentlemen:

In response to your letter of October 16, please be advised that we have no bond in the name of Capitol Oil, Incorporated. We do have one, however, in the name of Fairway Petroleum Corporation. From the way your letter reads, you will need to post a bond for Capitol.

In addition, it would be most helpful for us in identifying the particular wells to be transferred, if you could provide us with a lease map showing those wells that are to be transferred.

Sincerely yours,

FRANK H. WALKER, DIRECTOR
Division of Oil and Gas

FWW:lnh

162082

File - January 1969-70 Correspondence

FAIRWAY PETROLEUM CORPORATION
225 SYCAMORE STREET
EVANSVILLE, INDIANA 47708
TELEPHONE 424-3897

RECEIVED
OCT 23 1969
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

October 20, 1969

Mr. Frank Walker, Director
Division of Oil & Gas
Department of Mines & Minerals
P. O. Box 680
Lexington, Kentucky 40501

Dear Mr. Walker:

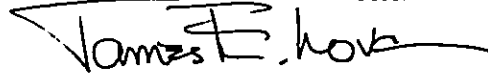
This letter is in regard to our request for transfer of operator dated October 16, 1969, and your reply of October 17, 1969.

I am sorry I failed to make myself clear regarding the new operator. Fairway Petroleum Corporation, 225 Sycamore Street, Evansville, Indiana, 47708, will operate the properties in question; will you please cause the necessary transfers to be made to place the leases listed under Fairway's blanket bond.

More specific identification of well locations will follow.

Very truly yours,

FAIRWAY PETROLEUM CORPORATION



James E. Lovan

JEL:blj
cc: Capitol Oil File
MCF-AFP
JEL

*Please file this memo under Oilfield Producers, Inc.
162043 1969-70 Signal*

RICHARDT INSURANCE AGENCY, INC.

OLD NATIONAL BANK BUILDING, P. O. BOX 968
EVANSVILLE, INDIANA 47701

Phone: 423-3228

RECEIVED
OCT 23 1969
DEPT. OF MINES AND METALS
LEXINGTON, KENTUCKY

October 22, 1969.

Mr. Frank Walker, Director
Division of Oil & Gas
Department of Mines & Minerals
P. O. Box 680
Lexington, Kentucky 40501

In re: Bond No. 3270407 - Blanket Oil Well Bond
Oilfield Producers, Inc., Evansville, Ind.

Dear Mr. Walker:

We have a copy of a letter written to you by James E. Lovan,
Fairway Petroleum Corporation, requesting transfer of surety bond
coverage to Fairway's blanket bond.

Will you please advise if the need of the captioned bond
is now voided and may be cancelled. May we hear from you please.

Yours very truly,

RICHARDT INSURANCE AGENCY, INC.

By *Thelma Kohl*
Thelma Kohl, Treas.

TK

Representing HARTFORD FIRE INSURANCE COMPANY and HARTFORD ACCIDENT AND INDEMNITY COMPANY of



THE HARTFORD INSURANCE GROUP
HARTFORD PLAZA, HARTFORD, CONNECTICUT 06115

162944

October 24, 1969

Richardt Insurance Agency, Inc.
Attn: Mrs. Thelma Kohl, Treasurer
Post Office Box #968
Evansville, Indiana 47701

Re: Bond No. 3270407
Oilfield Producers, Incorporated
Principal

Gentlemen:

Please be advised that even though the transfer be effected to Fairway Petroleum Corporation of certain of Oilfield Producers' wells, the bond still may not be released. There are numerous wells in Eastern Kentucky covered by the bond.

Sincerely yours,

FRANK H. WALKER, DIRECTOR
Division of Oil and Gas

FHW:lnh

C
O
P
Y

162945

December 18, 1969

Mr. Morris P. Youngblood
1204 First Avenue
Evansville, Indiana 47710

Dear Mr. Youngblood:

The whole matter of wells that are covered by Oilfield Producers, Incorporated's bond are in a state of confusion, and I am not really in the position to do anything yet.

I heard from Jim Lovan in October indicating that certain wells were to be transferred to Fairway Petroleum Corporation, but he has yet to advise me what those certain wells are. In addition, two non-compliance notices with respect to two abandoned and unplugged wells have been sent out on Oilfield Producers' bond, and I doubt that your bonding company would like to assume this. You will note that I am sending copies of this letter to all parties concerned, and I will take what steps I can just as soon as I know what steps to take.

Sincerely yours,

FRANK H. WALKER, DIRECTOR
Division of Oil and Gas

FHW:lnh

CC: Fairway Petroleum Corporation
Richardt Insurance Agency, Inc.
Citizens Realty & Insurance

C
O
P
Y



163032

RECEIVED
FEB 27 1970
DEPT. OF MINES AND MINERALS
LEXINGTON, KENTUCKY

FAIRWAY PETROLEUM CORPORATION
225 Sycamore Street • Evansville, Indiana 47708 • Phone 812-424-3897

February 26, 1970

Mr. Frank H. Walker, Director
Division of Oil and Gas
P. O. Box 680
Lexington, Kentucky 40501

Gentlemen:

Regarding your letter of February 23, 1970, this is to advise you
that our records agree.

Thank you.

Very truly yours,

FAIRWAY PETROLEUM CORPORATION

James E. Lovan J.E.
James E. Lovan, President

JEL:bjj
cc: Capitol Oil File
MCF
JEL

a member of the TITAN WELLS GROUP



193242

February 17, 1972

Universal Operating, Inc.
Room 622 Court Building
Evansville, Indiana 47708

Attention: Mr. William H. Smith, Jr.

Dear Bill:

Please be advised that we have this date transferred to Universal Operating and placed under their bond, the wells in the Robards Pool listed in your letter of February 16.

Please do not be concerned about the locations as those that we have may be Keller Map, old topo sheet, new topo sheet or any one of a number of other map base locations.

Thanks for your help.

Sincerely yours,

FRANK H. WALKER, DIRECTOR
Division of Oil and Gas

FHW:lnh

CC: Inspector J. Lander

C
O
P
Y

193243

UNIVERSAL OPERATING, INC.
4TH FLOOR COURT BUILDING, ROOM 622
EVANSVILLE, INDIANA 47708
TELEPHONE 423-8439

*Rec'd
2/17/72
W*

February 16, 1972

Mr. Frank H. Walker, Director
Division of Oil and Gas
Department of Mines and Minerals
P. O. Box 680
Lexington, Kentucky 40501

Dear Frank:

Subject: Robards Pool Leases, Henderson County,
Kentucky

In reply to your letter of February 10, 1972, please
place the Robards Pool wells therein listed under our blanket
bond coverage. The wells included in your letter were the
following:

Denton-Community #1
Jennie Denton #1 and #2
Tom Denton #1, #2, #4, #5 and #6
Susanna Gates #1 and #2
I. J. Sellers #1

We are not sure about the locations you show for these
wells; however, the permit numbers check with our records.

I trust this clears Universal Operating, Inc., up in
regard to the Fairway Petroleum wells. We very much appreci-
ate your assistance in this matter.

Very truly yours,

Bill

William H. Smith, Jr.

WHSJr:js

1172744



ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR NATURAL RESOURCES

Ernie Fletcher
Governor

Division of Oil and Gas Conservation
Post Office Box 2244
Frankfort, Kentucky 40602
Phone (502) 573-0147
Fax (502) 573-1099
www.kentucky.gov

Lajuana S. Wilcher
Secretary

Susan C. Bush
Commissioner

January 17, 2006

HYDROCARBON INV, INC
1015-A MAIN ST
EVANSVILLE, IN 47708

Dear Sir

Please be advised that we have this date transferred to you and placed under your bond the below listed wells. The previous operator, UNIVERSAL OPERATING, INC, is hereby relieved of all plugging responsibility with respect to these wells.

You are given forty-five days to bring the wells into compliance for the indicated existing violations. Please contact our field inspector for instructions in correcting the violations.

Permit Farm Well and Location

1757-W DENTON COMMUNITY #1, Henderson Cty. 22 O 23 2550FNL 950FEL
185-W DENTON, TOM #1, Henderson Cty. 21 O 23 2250FSL 275FWL
215-W DENTON, TOM #4, Henderson Cty. 21 O 23 2600FSL 1000FWL
KRS 353.550 Improperly abandoned (Not producing or plugged)
222-W DENTON, TOM #5, Henderson Cty. 22 O 23 1800FSL 950FEL
277-W DENTON, TOM #6, Henderson Cty. 22 O 23 900FSL 1150FEL
747-W GATES, SUSANNA A #2, Henderson Cty. 22 O 23 2150FSL 1500FEL
N1241 DENTON, TOM #2, Henderson Cty. 22 O 23 1650FSL 50FEL
N1242 SELLARS, I J #1, Henderson Cty. 22 O 23

Sincerely,

A handwritten signature in cursive script that reads "Deana Wilmoth".

Deana Wilmoth
Division of Oil and Gas Conservation

CC: UNIVERSAL OPERATING, INC
1521 SOUTH GREEN RIVER ROAD
EVANSVILLE, IN 47715
Inspector Cyrus Britt, Phone:270-824-7523
Inspector Jennifer Miller, Phone:270-577-2480

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF MINES & MINERALS
 DIVISION OF OIL AND GAS
 P. O. BOX 14090
 LEXINGTON, KENTUCKY 40512-4090
 PHONE (606) 246-2032

1172746



WELL TRANSFER

OFFICE USE ONLY

TR LEDGER # 10-2005-3-10
 OPERATOR NUMBER: 2696
 BOND NUMBER: CB16
 TRANSFER FEE: \$25.00/WELL
 TOTAL NUMBER OF WELLS ON THIS
 LEASE TO BE TRANSFERRED: 8
 TOTAL AMOUNT REMITTED ON THIS
 FORM: \$200.00

PRESENT OPERATOR: UNIVERSAL OPERATING, INC. TRANSFERRED TO:
 ADDRESS: 1521 SO. GREEN RIVER ROAD OPERATOR: HYDROCARBON INVESTMENTS, INC.
EVANSVILLE, INDIANA 47715 ADDRESS: 1015 A MAIN STREET
 PHONE NO. 812-477-1584 EVANSVILLE, INDIANA 47708
 TOTAL NUMBER OF WELLS ON THIS LEASE TO BE
 TRANSFERRED: 5 PHONE NO. 812-421-4455
 LEASE NAME: TOM DENTON IF CORPORATION, NAME OF PRINCIPAL OFFICER:
CRAIG KENDALL
 COUNTY: HENDERSON

WELL NO.	CARTER COORDINATE SPOT LOCATIONS	PERMIT NO.
1 ✓	✓ 21-0-23 2250' FSL, 275' FWL	✓ 185-W
2 ✓	✓ 22-0-23 1650' FSL. 50' FEL	✓ N1241
4 ✓	✓ 21-0-23 2600' FSL. 1000' FWL	✓ 215-W
5 ✓	✓ 22-0-23 1800' FSL, 950' FEL	✓ 222-W 1A
6 ✓	✓ 22-0-23 900' FSL, 1150' FEL	✓ 277-W

OCT 3 2005
 DEPARTMENT FOR NATURAL RESOURCES
 DIVISION OF OIL & GAS

ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS,
 REQUEST THE DIVISION OF OIL AND GAS, DEPARTMENT OF MINES AND MINERALS TO TRANSFER AND PLACE THESE
 WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 35J
 AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

HYDROCARBON INVESTMENTS, INC.

September 27, 2005
 DATE

BY: Craig Kendall
 SIGNATURE OF PURCHASER

ACKNOWLEDGED UNIVERSAL OPERATING, INC.
 BY: William Schmidt
 SIGNATURE OF SELLING OPERATOR

INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE ARE MORE WELLS THAN
 CAN BE LISTED ON THIS SHEET.

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF MINES & MINERALS
 DIVISION OF OIL AND GAS
 P. O. BOX 14090
 LEXINGTON, KENTUCKY 40512-4090
 PHONE (606) 246-2032

1172747



WELL TRANSFER

OFFICE USE ONLY

TR LEDGER # 10-2005-3-10
 OPERATOR NUMBER: 2696
 BOND NUMBER: CB16
 TRANSFER FEE: \$25.00/WELL
 TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 8
 TOTAL AMOUNT REMITTED ON THIS FORM: 8200.00

PRESENT OPERATOR: UNIVERSAL OPERATING, INC. TRANSFERRED TO:
 ADDRESS: 1521 SO. GREEN RIVER ROAD OPERATOR: HYDROCARBON INVESTMENTS, INC.
EVANSVILLE, INDIANA 47715 ADDRESS: 1015 A MAIN STREET
 PHONE NO. 812-477-1584 EVANSVILLE, INDIANA 47708
 TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: One PHONE NO. 812-421-4455
 LEASE NAME: SUSANNA A. GATES ✓ IF CORPORATION, NAME OF PRINCIPAL OFFICER:
CRAIG KENDALL
 COUNTY: ✓ HENDERSON

WELL NO.	CARTER COORDINATE SPOT LOCATIONS	PERMIT NO.
<u>2</u> ✓	<u>22-0-23 2150' FSL, 155" FEL</u>	<u>✓ 747-W</u>

RECEIVED
 OCT 3 2005
 DIVISION OF OIL AND GAS
 DEPARTMENT OF MINES AND MINERALS

ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS, REQUEST THE DIVISION OF OIL AND GAS, DEPARTMENT OF MINES AND MINERALS TO TRANSFER AND PLACE THESE WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 35J AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

DATE: September 27, 2005

BY: Craig Kendall
 SIGNATURE OF PURCHASER

UNIVERSAL OPERATING, INC.
 ACKNOWLEDGED BY: William W. Smith
 SIGNATURE OF SELLING OPERATOR

INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE ARE MORE WELLS THAN CAN BE LISTED ON THIS SHEET.

COMMONWEALTH OF KENTUCKY
 DEPARTMENT OF MINES & MINERALS
 DIVISION OF OIL AND GAS
 P. O. BOX 14090
 LEXINGTON, KENTUCKY 40512-4090
 PHONE (606) 246-2032

1172748



WELL TRANSFER

OFFICE USE ONLY

TR LEDGER # 10-2005-3-10
 OPERATOR NUMBER: 2696
 BOND NUMBER: CB16
 TRANSFER FEE: \$25.00/WELL
 TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 8
 TOTAL AMOUNT REMITTED ON THIS FORM: \$200.00

PRESENT OPERATOR: UNIVERSAL OPERATING, INC. TRANSFERRED TO:
 ADDRESS: 1521 SO. GREEN RIVER ROAD OPERATOR: HYDROCARBON INVESTMENTS, INC.
EVANSVILLE, INDIANA 47715 ADDRESS: 1015 A MAIN STREET
 PHONE NO. 812-477-1584 EVANSVILLE, INDIANA 47708
 TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: ONE PHONE NO. 812-421-4455
 LEASE NAME: I. J. SELLERS ✓ COUNTY: HENDERSON ✓
 NAME OF PRINCIPAL OFFICER: CRAIG KENDALL

WELL NO.	CARTER COORDINATE SPOT LOCATIONS	PERMIT NO.
1 ✓	22-0-23 1150' W, 2250' S of NEC	N1242

RECEIVED
 OCT 3 2005
 DEPARTMENT OF MINES AND METALLURGY
 DIVISION OF OIL & GAS

ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS, REQUEST THE DIVISION OF OIL AND GAS, DEPARTMENT OF MINES AND MINERALS TO TRANSFER AND PLACE THESE WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 35J AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

DATE September 27, 2005 BY: Craig Kendall
 UNIVERSAL OPERATING, INC. SIGNATURE OF PURCHASER

ACKNOWLEDGED BY: William W. Smith
 SIGNATURE OF SELLING OPERATOR

INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE ARE MORE WELLS THAN CAN BE LISTED ON THIS SHEET.

1172749

UNIVERSAL OPERATING, INC.
1521 S. GREEN RIVER RD.
EVANSVILLE, IN 47715

10-2005-3-10

59347

71-4/863



Fifth Third Bank
(SOUTHERN INDIANA)
EVANSVILLE, INDIANA

DATE Oct. 4, 2005

PAY

THE SUM 200 DOLS 00 CTS

DOLLARS \$ 200.00



TO THE
ORDER OF

Kentucky State Treasurer
Department of Mines and Minerals
Division of Oil and Gas
P. O. Box 2244
Frankfort, Kentucky 40602

COPY

UNIVERSAL OPERATING, INC.

William M. ...

⑈00059347⑈ ⑆086300041⑆ 0101983686⑈

1172750

UNIVERSAL OPERATING, INC.

1521 SOUTH GREEN RIVER ROAD
EVANSVILLE, INDIANA 47715
(812) 477-1584

September 27, 2005

Department of Mines and Minerals
Division of Oil and Gas
P. O. Box 2244
Frankfort, Kentucky 40602

Attention: Deana Wilmoth


Dear Ms. Wilmoth:

Subject: Well Transfers

Enclosed are the Well Transfer forms for eight wells located in Henderson County and a check in the amount of \$200 for transferring the wells. Would you please send us confirmation that these wells have been transferred to the new owners bond.

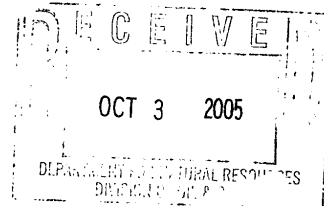
Very truly yours,

UNIVERSAL OPERATING, INC.


William W. Smith

WWS/nlm

ENC:



1172751



ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR NATURAL RESOURCES

Ernie Fletcher
Governor

Division of Oil and Gas Conservation
Post Office Box 2244
Frankfort, Kentucky 40602
Phone (502) 573-0147
Fax (502) 573-1099
www.kentucky.gov

Lajuana S. Wilcher
Secretary

Susan C. Bush
Commissioner

January 12, 2006

HYDROCARBON INV, INC
1015-A MAIN ST
EVANSVILLE, IN 47708-1824

Re: Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL
Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL
Permit N1242 SELLARS, I J #1 Henderson Cty. 22 O 23

Dear Sir

Your request to transfer wells cannot be processed until the following items are addressed:

Pursuant to 805KAR 1:190 and effective March 18, 2004, all operators are required to obtain a Gathering Line Operator's License and renew it annually. Our records indicate the buying operator has not obtained one for the year(s) 2006. The buyer must forward to us a check for \$100.00 made payable to KENTUCKY STATE TREASURER before we can continue to process your transfer request.

Pursuant to 805KAR 1:190 and effective March 18, 2004, all operators are required to obtain a Gathering Line Operator's License and renew it annually. Our records indicate the selling operator has not obtained one for the year(s) 2006. The seller must forward to us a check for \$100.00 made payable to KENTUCKY STATE TREASURER before we can continue to process your transfer request.

Sincerely,

A handwritten signature in cursive script that reads "Deana Wilmoth".

Deana Wilmoth
Division of Oil and Gas Conservation

CC: UNIVERSAL OPERATING, INC
Inspector Cyrus Britt, Phone:270-824-7523
Inspector Jennifer Miller, Phone:270-577-2480

UNIVERSAL OPERATING, INC.

1521 SOUTH GREEN RIVER ROAD
EVANSVILLE, INDIANA 47715
(612) 477-1584

1172752

January 2, 2006

Department of Mines and Minerals
Division of Oil and Gas
P. O. Box 2244
Frankfort, Kentucky 40602

Attention: Deana Wilmoth

Dear Ms. Wilmoth:

Subject: Well Transfers

On September 27, 2005, Universal sent a check for \$200 and Transfer Forms for eight wells located in Henderson County, Kentucky which are to be transferred to Hydrocarbon Investments, Inc. Please let us know the status on the transfers. Thank you.

Very truly yours,

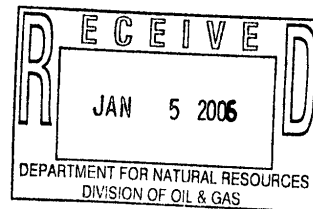
UNIVERSAL OPERATING, INC.



William W. Smith

WWS/nlm

*Called on 1/5/06
& left msg
with
secretary*



1172753

UNIVERSAL OPERATING, INC.

1521 SOUTH GREEN RIVER ROAD
EVANSVILLE, INDIANA 47715
(812) 477-1584

October 4, 2005

Department of Mines and Minerals
Division of Oil and Gas
P. O. Box 2244
Frankfort, Kentucky 40602

Attention: Deana Wilmoth

Dear Ms. Wilmoth:

Subject: Well Transfers
UOI Letter of Sept. 27, 2005

Universal recently sent you a cover letter along with Well Transfer Forms for eight wells located in Henderson County, Kentucky. Apparently I did not include the payment as stated. Therefore, I am forwarding payment and I apologize for any inconvenience this has caused.

Very truly yours,

UNIVERSAL OPERATING, INC.

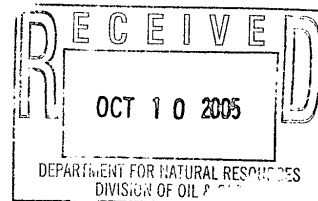


Nancy L. Montgomery

NLM/

ENC:

P.S. Would you please send us a supply of Temporarily Abandonment forms?
Thank you.





1172754

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR NATURAL RESOURCES

Ernie Fletcher
Governor

Division of Oil and Gas Conservation
Post Office Box 2244
Frankfort, Kentucky 40602
Phone (502) 573-0147
Fax (502) 573-1099
www.kentucky.gov

Lajuana S. Wilcher
Secretary

Susan C. Bush
Commissioner

October 19, 2005

HYDROCARBON INV, INC
1015-A MAIN ST
EVANSVILLE, IN 47708-1824

Re: Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL
Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL
Permit N1242 SELLARS, I J #1 Henderson Cty. 22 O 23

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

The purchasing party has a violation of the statutes on file, therefore this well transfer must be denied until the matter is in compliance.

Sincerely,

Deana Wilmoth
Division of Oil and Gas Conservation

CC: UNIVERSAL OPERATING, INC
Inspector Cyrus Britt, Phone:270-824-7523
Inspector Jennifer Miller, Phone:270-577-2480

1522419

SELLING/ PRESENT OPERATOR
Hydrocarbon Inv. Inc.
OP# 2696

BUYING/ TRANSFERRED TO OPERATOR
Basin Petroleum, LLC
OP# 186195

<input type="checkbox"/> SIGNATURE (must be original)
<input checked="" type="checkbox"/> ADDRESS & PHONE NUMBER
<input checked="" type="checkbox"/> INFO-ON WELL TRANS FORM
<input checked="" type="checkbox"/> COMPLETION STATUS & RECORDS
<input checked="" type="checkbox"/> BOND STATUS
<input checked="" type="checkbox"/> PRODUCTION STATUS
<input checked="" type="checkbox"/> GATHERING LINE OP LICENSE
<input checked="" type="checkbox"/> 2004
<input type="checkbox"/> 2005
<input type="checkbox"/> 2006
<input type="checkbox"/> 2007
<input type="checkbox"/> 2008
<input type="checkbox"/> 2009
<input type="checkbox"/> 2010
<input type="checkbox"/> 2011
<input type="checkbox"/> 2012
<input type="checkbox"/> 2013
<input type="checkbox"/> 2014
<input checked="" type="checkbox"/> TRANSFER FEES RECEIVED
<input checked="" type="checkbox"/> E-MAIL INSPECTOR 5/21/14
<input type="checkbox"/> RECEIVED INSPECTOR'S OK
<input type="checkbox"/> AS BUILT PLAT
<input checked="" type="checkbox"/> INCL SURVEY

<input type="checkbox"/> SIGNATURE (must be original)
<input checked="" type="checkbox"/> ADDRESS & PHONE NUMBER
<input checked="" type="checkbox"/> TANK VIOLATIONS
<input checked="" type="checkbox"/> PERMIT VIOLATIONS
<input checked="" type="checkbox"/> BOND TO COVER WELLS
<input checked="" type="checkbox"/> PRODUCTION STATUS
<input type="checkbox"/> GATHERING LINE OP LICENSE
<input type="checkbox"/> 2004
<input type="checkbox"/> 2005
<input type="checkbox"/> 2006
<input type="checkbox"/> 2007
<input type="checkbox"/> 2008
<input type="checkbox"/> 2009
<input type="checkbox"/> 2010
<input checked="" type="checkbox"/> 2011
<input checked="" type="checkbox"/> 2012
<input checked="" type="checkbox"/> 2013
<input type="checkbox"/> 2014
<input type="checkbox"/> 2015
<input checked="" type="checkbox"/> ED-11/FEES/MAP (effective 03/18/04)
<input type="checkbox"/> Ed-11 MAP

COMMENTS:

Need Orig. form

185-W/N1241 - SR1

1757-W, 277-W, 747-W - Need topo

215-W, 222-W - Need topo when put into Prod.

~~Buyer Production 2013~~
 Buyer op uc 2014 + 2015
 NO topo? (Need topo when PR)

COMMONWEALTH OF KENTUCKY
 DEPARTMENT FOR NATURAL RESOURCES
 DIVISION OF OIL AND GAS CONSERVATION
 1025 CAPITAL CENTER DR, STE 201
 POST OFFICE BOX 2244
 FRANKFORT KY 40601-2244
 PHONE: 502-573-0147
 FAX: 502-573-1099
 WWW.DOGC.KY.GOV

1522420



OFFICE USE ONLY

TR LEDGER #	202506/12
OPERATOR NUMBER:	
BOND NUMBER:	CB1000104
TRANSFER FEE:	\$25.00/WELL
TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED:	7
TOTAL AMOUNT REMITTED ON THIS FORM:	\$175.00

WELL TRANSFER

PRESENT OPERATOR:

OPERATOR: Hydrocarbon Investments Inc.
 ADDRESS: 7235 North Green River Rd.
Evansville, IN 47725
 E-MAIL: hydrocarboninvestments@hotmail.com
 PHONE NO: 812 867 8011

TRANSFERRED TO:

OPERATOR: Basin Petroleum LLC
 ADDRESS: 320 1st Street
Henderson, KY 42420
 E-MAIL: _____
 PHONE NO: 270 577 3636

TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 7

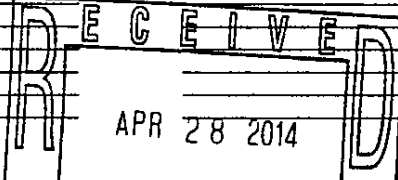
IF CORPORATION, NAME OF PRINCIPAL OFFICER: _____

LEASE NAME: Tom Denton (Community) COUNTY: Henderson

WELL NO.
1 ✓
1 ✓
4 ✓
5 ✓
6 ✓
2 ✓
3 ✓

CARTER COORDINATE SPOT LOCATIONS		
Henderson County	22-0-23	2550 N 950 E ✓
	21-0-23	2250 S 275 W ✓
	21-0-23	2600 S 1000 W ✓
	22-0-23	1800 S 950 E ✓
	22-0-23	900 S 1150 E ✓
	22-0-23	2150 S 1500 E ✓
	22-0-23	1650 S 80 E ✓

PERMIT NO.
1757-W ✓
185-W ✓
215-W ✓
222-W ✓
277-W ✓
287-W ✓
N1241 ✓



ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS, REQUEST THE DIVISION OF OIL AND GAS CONSERVATION, TO TRANSFER AND PLACE THESE WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 353 AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

4/22/2014 DATE
 _____ SIGNATURE OF PURCHASER _____ TITLE Manager
 _____ SIGNATURE OF SELLING OPERATOR _____ TITLE President

ACKNOWLEDGED: _____
 INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE ARE MORE WELLS THAN CAN BE LISTED ON THIS SHEET. ENCLOSE \$25.00 PER WELL TRANSFER FEE.

MAKE CHECKS PAYABLE TO: KENTUCKY STATE TREASURER

HYDROCARBON INVESTMENTS, INC.

7235 N. GREEN RIVER ROAD
EVANVILLE, IN 47725-7322

CRAIG KENDALL, PRESIDENT

TELEPHONE 812-867-8011
FAX 812-867-8012

August 12, 2014

Kentucky Department for Natural Resources
Division of Oil and Gas
P. O. Box 2244
Frankfort, KY 40601

Attention: Jessica Hoskins

Re: Permit 1757-W Denton Community #1
Permit 185-W Tom Denton #1
Permit 215-W Tom Denton #4
Permit 222-W Tom Denton #5
Permit 277-W Tom Denton #6
Permit 747-W Susanna Gates #2
Permit N1241 Tom Denton #2

1522421
- Basin Ret-OPUG
114

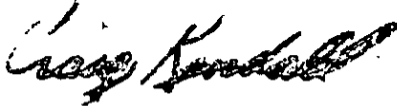
Dear Ms. Hoskins:

Would you please give us an update on the status of the transfer of the above wells from Hydrocarbon Investments, Inc., to Basin Petroleum, LLC.

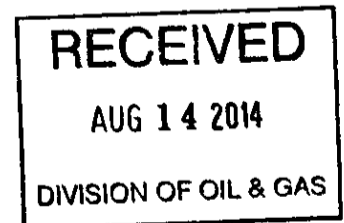
- Original Form
- topo maps

Thank you,

HYDROCARBON INVESTMENTS, INC.



Craig Kendall, President





1522422

ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Natural Resources
Division of Oil and Gas
Post Office Box 2244
Frankfort, KY 40602
Phone: (502) 573-0147 Fax: (502) 573-1099
<http://oilandgas.ky.gov>

Leonard K. Peters
Secretary

Jul 29, 2015

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Well Transfer

Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL
Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL

Dear Sir or Madam

On Wednesday, May 21, 2014, this office received a Well Transfer form requesting the above-referenced well(s) be transferred to BASIN PETROLEUM, LLC.

Enclosed is a letter dated May 21, 2014 notifying both the selling and purchasing parties of the items needed in order to complete the transfer. To date, we have not received the required items. Consequently, the listed well(s) have not been transferred and this file has been closed. HYDROCARBON INV, INC remains the liable operator of the well(s).

You may submit a new Well Transfer form along with the associated fee(s) if you are interested in transferring the well(s) to another operator.

Sincerely,

Jessica Roberts
Division of Oil and Gas

Enclosures

CC: BASIN PETROLEUM, LLC
Inspector Bert Combs, Phone:270-884-3761
Inspector Cyrus Britt, Phone:270-824-7523



1522422

ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Natural Resources
Division of Oil and Gas
Post Office Box 2244
Frankfort, KY 40602
Phone: (502) 573-0147 Fax: (502) 573-1099
<http://oilandgas.ky.gov>

Leonard K. Peters
Secretary

Jul 29, 2015

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Well Transfer

- Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
- Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
- Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
- Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
- Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
- Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL
- Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL

Dear Sir or Madam

On Wednesday, May 21, 2014, this office received a Well Transfer form requesting the above-referenced well(s) be transferred to BASIN PETROLEUM, LLC.

Enclosed is a letter dated May 21, 2014 notifying both the selling and purchasing parties of the items needed in order to complete the transfer. To date, we have not received the required items. Consequently, the listed well(s) have not been transferred and this file has been closed. HYDROCARBON INV, INC remains the liable operator of the well(s).

You may submit a new Well Transfer form along with the associated fee(s) if you are interested in transferring the well(s) to another operator.

Sincerely,

Jessica Roberts
Division of Oil and Gas

Enclosures

CC: BASIN PETROLEUM, LLC
Inspector Bert Combs, Phone:270-884-3761
Inspector Cyrus Britt, Phone:270-824-7523



1522423

ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Natural Resources
Division of Oil and Gas
Post Office Box 2244
Frankfort, KY 40602
Phone: (502) 573-0147 Fax: (502) 573-1099
<http://oilandgas.ky.gov>

Leonard K. Peters
Secretary

May 21, 2014

BASIN PETROLEUM, LLC
17658 ST 1078 S
HENDERSON, KY 42420

Re: Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL
Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

The original well transfer form with the original signatures must be sent to this office.

The buying party must file production report(s) on all wells (not just those involved in the transfer) for year(s) 2013.

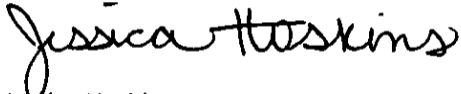
Pursuant to 805KAR 1:190 and effective March 18, 2004, all operators are required to obtain a Gathering Line Operator's License and renew it annually. Our records indicate the buying operator has not obtained one for the year(s) 2014. The buyer must forward to us a check for \$100.00 made payable to KENTUCKY STATE TREASURER before we can continue to process your transfer request.

A topographic map is required to be filed on the wells 1757-W, 277-W and 747-W listed above. The map must show the operator name; well location; permit number; the flow line and gathering line. The map must also show where the lines are connected; line diameter; construction type; system name and the map date. You may obtain information on printing a topographic map from the Kentucky Geological Survey's website at <http://uky.edu/KGS/>.

1522424

Please send a letter to our office signed by both parties, withdrawing the previous transfer to Petroleum Development Group, LLC.

Sincerely,

A handwritten signature in cursive script that reads "Jessica Hoskins".

Jessica Hoskins

Division of Oil and Gas

CC: HYDROCARBON INV, INC

Inspector Bert Combs, Phone:270-884-3761

Inspector Cyrus Britt, Phone:270-824-7523

1704456

HYDROCARBON INVESTMENTS, INC

7235 N. GREEN RIVER ROAD
EVANSVILLE, IN 47725
812-867-8011 FAX 812-867-8012

March 23, 2018

Energy and Environment Cabinet
Department for Natural Resources
Division of Oil and Gas
300 Sower Blvd.
Frankfort, KY 40602

Attention: Jessica Roberts

Dear Jessica:

Enclosed is a copy of your letter of 01/18/17 advising that the transfer of wells on the Denton Lease could not be completed because needed maps had not been received. We have been reviewing our file and found email correspondence indicating that the information was sent in on April 29, 2015 by Timothy Hart of Kentucky Exploration, LLC (copy also enclosed). We would appreciate it if you could confirm whether or not you received the data he sent.

Thanks for your help,



Craig Kendall, President

Encls.

RECEIVED
MAR 27 2018
DIVISION OF OIL & GAS

1704457



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES
DIVISION OF OIL AND GAS

ALLEN LUTTRELL
Commissioner

300 SOWER BLVD
POST OFFICE BOX 2244
FRANKFORT, KY 40602
TELEPHONE: 502-573-0147
TELEFAX: 502-564-4245
<http://oilandgas.ky.gov>

Jan 18, 2017

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Well Transfer

- Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
- Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
- Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL
- Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
- Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
- Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
- Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir or Madam:

On Friday, February 06, 2015, this office received a Well Transfer form requesting the above-referenced well(s) be transferred to KENTUCKY EXPLORATION LLC.

Enclosed is a letter dated Mar 18, 2015 notifying both the selling and purchasing parties of the items needed in order to complete the transfer. To date, we have not received the required items. Consequently, the listed well(s) have not been transferred and this file has been closed. HYDROCARBON INV, INC remains the liable operator of the well(s).

You may submit a new Well Transfer form along with the associated fee(s) if you are interested in transferring the well(s) to another operator.

Sincerely,

Jessica Roberts
Division of Oil and Gas

Enclosures

CC: KENTUCKY EXPLORATION LLC
Inspector Bert Combs, Phone:270-884-3761
Inspector Cyrus Britt, Phone:270-824-7523

RECEIVED
MAR 27 2018
DIVISION OF OIL & GAS

RECEIVED JAN 27 2017

From: thart@austinexploration.com
To: hydrocarboninvestments@hotmail.com
Subject: RE: Denton Lease Transfers
Date: Thu, 30 Apr 2015 02:26:33 +0000

Craig,
I resent them this evening.

Timothy B. Hart
Vice President & General Manager, Eastern Business Unit
Austin Exploration, LTD. / Kentucky Exploration, LLC.
thart@austinexploration.com
(270) 256-5939

From: Hydrocarbon Investments, Inc. [<mailto:hydrocarboninvestments@hotmail.com>]
Sent: Wednesday, April 29, 2015 11:19 AM
To: Tim Hart
Subject: Denton Lease Transfers

Tim,

Please read our correspondence below with the KY Division of Oil and Gas and give me a call when you have a chance.

Thanks,

Craig

Hydrocarbon Investments, Inc.
7235 N. Green River Rd.
Evansville, IN 47725-7322
812-867-8011
812-867-8012 Fax

From: Jessica.Hoskins@ky.gov
To: hydrocarboninvestments@hotmail.com
Subject: RE: Denton Lease Transfers
Date: Wed, 29 Apr 2015 12:15:11 +0000
Mr. Kendall,

I am showing where the operator's license for Kentucky Exploration has been paid, but no maps. We only need them for 1757-W, 277-W and 747-W. The other wells will require maps once the well is put into production and the line is hooked up. If they were sent to Jim Gallagher they have not been processed, and he has not notified me.

Thanks,

Jessica

Jessica Hoskins
Administrative Specialist II
Division of Oil and Gas
502-573-0147 ext. 261
Jessica.hoskins@ky.gov



Clay, Kaci (EEC)

From: Clay, Kaci (EEC)
Sent: Tuesday, March 27, 2018 2:59 PM
To: 'hydrocarboninvestments@hotmail.com'
Subject: Denton lease maps

To whom it may concern:

The DOG is in receipt of your letter dated March 23, 2018 concerning maps not received for the transfer from HYDROCARBON INV, INC to KENTUCKY EXPLORATION LLC. I have checked our database and these maps, specifically for permits #1757-W, #277-W, and #747-W, have not been filed.

Thanks,

Kaci Clay
Division of Oil & Gas

SELLING/ PRESENT OPERATOR
Hydrocarbon Inv, Inc
OP# 2696

BUYING/ TRANSFERING OPERATOR
Edgington, Jimmy C
OP# 170865

<input checked="" type="checkbox"/> SIGNATURE (MUST BE ORIGINAL)
<input checked="" type="checkbox"/> ADDRESS & PHONE NUMBER
<input checked="" type="checkbox"/> INFO ON WELL TRANS FORM
<input checked="" type="checkbox"/> COMPLETION STATUS & RECORDS
<input checked="" type="checkbox"/> BOND STATUS
<input checked="" type="checkbox"/> PRODUCTION STATUS
<input type="checkbox"/> MIT TEST IN LAST 5 YRS (UIC ONLY)
<input checked="" type="checkbox"/> OP LICENSE 2004-CURRENT YEAR
<input checked="" type="checkbox"/> TRANSFER FEES RECEIVED
<input checked="" type="checkbox"/> E-MAIL INSPECTOR 12-20-18
<input checked="" type="checkbox"/> RECEIVED INSPECTOR'S OK Bran R cy 0
<input type="checkbox"/> AS BUILT PLAT
<input type="checkbox"/> INCL SURVEY

<input checked="" type="checkbox"/> SIGNATURE (MUST BE ORIGINAL)
<input checked="" type="checkbox"/> ADDRESS & PHONE NUMBER
<input checked="" type="checkbox"/> TANK VIOLATIONS
<input checked="" type="checkbox"/> PERMIT VIOLATIONS
<input checked="" type="checkbox"/> BOND TO COVER WELLS
<input checked="" type="checkbox"/> PRODUCTION STATUS
<input checked="" type="checkbox"/> OP LICENSE 2004-CURRENT YEAR
<input type="checkbox"/> ED-11/FEES/MAPS (effective 03/18/04)
<input checked="" type="checkbox"/> Ed-11 MAP

- need maps

- 1757-W
- 215-W
- 26830
- 277-W
- 747-W

- rec'd 1-3-19

1712073

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF MINES & MINERALS
DIVISION OF OIL AND GAS
P.O. BOX 2244
FRANKFORT, KY 40601
PHONE (502) 573-0147

OFFICE USE ONLY

TR LEDGER #: 219044-219047, 219050, -52, -5
OPERATOR NUMBER: 170865
BOND NUMBER: BL 85473
TRANSFER FEE: \$25.00/WELL
TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 7
TOTAL AMOUNT REMITTED ON THIS FORM: \$175.00

WELL TRANSFER

PRESENT OPERATOR: HYDROCARBON INVESTMENTS, INC. 2696 TRANSFERRED TO:

ADDRESS: 7235 N. GREEN RIVER ROAD

OPERATOR: JIM EDGINGTON

EVANSVILLE, IN 47725

ADDRESS: 1673 DUNLAP DRIVE

E-MAIL: hydrocarboninvestments@hotmail.com

PRINCETON, IN 47670

PHONE NO: 812-867-8011

E-MAIL:

TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 7

PHONE NO: 812-779-6736

LEASE NAME: DENTON COMMUNITY

IF CORPORATION, NAME OF PRINCIPAL OFFICER:

COUNTY: HENDERSON

Table with 4 columns: WELL NO., CARTER COORDINATE SPOT LOCATIONS, PERMIT NO., and status. Includes well numbers 1, 1, 4, 5, 6, 2, 2 and their corresponding coordinates and permit numbers.

ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS, REQUEST THE DIVISION OF OIL AND GAS, DEPARTMENT OF MINES AND MINERALS TO TRANSFER AND PLACE THESE WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 353 AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

11/5/18
DATE

Jim Edgington
SIGNATURE OF PURCHASER

ACKNOWLEDGED:
SIGNATURE OF SELLING OPERATOR

INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE IS MORE WELLS THAT CAN BE LISTED ON THIS SHEET. MAKE CHECKS PAYABLE TO "THE KENTUCKY STATE TREASURER."

FORM ED-13 (REV. 02/99)

RECEIVED
NOV 20 2018
DIVISION OF OIL & GAS

1712077

HYDROCARBON INVESTMENTS, INC.

7235 N. GREEN RIVER ROAD
EVANSVILLE, IN 47725-7322

CRAIG KENDALL, PRESIDENT

TELEPHONE 812-867-8011
FAX 812-867-8012
CELL 812-453-8378

November 16, 2018


Commonwealth of Kentucky
Department for Natural Resources
Division of Oil & Gas
300 Sower Blvd.
Frankfort, KY 40601

Re: Well Transfer Forms ED-13
Cooper Ashby, Pemberton-Dozier-Jackson, Ramsey-Nisbet Leases, Hopkins County;
Denton Community Lease, Henderson County;
Well Transfer Form ED-26
Tom Denton #2 Class II-UIC Well, Henderson County.

Gentlemen:

Enclosed are executed well transfer forms for the above properties along with our check #24855 for \$275.00 covering the fees to transfer wells that are operated by Hydrocarbon Investments, Inc., in Kentucky to Jim Edgington.

Thank you,



Craig Kendall

Lb
Enclosures

RECEIVED

NOV 20 2018

DIVISION OF OIL & GAS

Clay, Kaci (EEC)

From: Reynolds, Brian (EEC)
Sent: Thursday, December 20, 2018 9:51 AM
To: Clay, Kaci (EEC)
Subject: Re: Pending Well Transfer from HYDROCARBON INV, INC to EDGINGTON, JIMMY C

Never heard of him

That stuff hasn't operated in 20 years
So if he wants it it'll be nice to see that lease cleaned up

Nothing is leaking and I think TAs are in order

Sent from my iPhone

On Dec 20, 2018, at 8:36 AM, Clay, Kaci (EEC) <Kaci.Clay@ky.gov> wrote:

The buying operator is Jim Edgington.

From: Reynolds, Brian (EEC) <brian.reynolds@ky.gov>
Sent: Thursday, December 20, 2018 9:30 AM
To: Clay, Kaci (EEC) <Kaci.Clay@ky.gov>
Subject: Re: Pending Well Transfer from HYDROCARBON INV, INC to EDGINGTON, JIMMY C

Who is the successor operator

I do not believe hydrocarbon has a valid lease on that

Sent from my iPhone

On Dec 20, 2018, at 8:25 AM, Clay, Kaci (EEC) <Kaci.Clay@ky.gov> wrote:

Any objections to transfer of:
1757-W, DENTON COMMUNITY 1 in Henderson cty
185-W, DENTON, TOM 1 in Henderson cty
N1241, DENTON, TOM 2 in Henderson cty
215-W, DENTON, TOM 4 in Henderson cty
222-W, DENTON, TOM 5 in Henderson cty
277-W, DENTON, TOM 6 in Henderson cty
747-W, GATES, SUSANNA A 2 in Henderson cty

1712079



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

December 20, 2018

EDGINGTON, JIMMY C
1673 DUNLAP DRIVE
PRINCETON, IN 47670

Re: Permit 185-W DENTON, TOM #1, Henderson Cty. 21 O 23 2250FSL 275FWL
Permit N1241 DENTON, TOM #2, Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

According to our records, Permit 185-W is an Underground Injection Control (UIC) well. You are required to complete and submit the ED-26 Transfer of Class II-UIC Wells form for this well. The operator of Class II wells must provide financial coverage to adequately plug and abandon the well. Therefore, you are required to submit a bond in the amount of \$7,400.00

Our office has received an ED-26 Transfer of Class II-UIC Wells form for Permit N1241. The entry on the ED-13 Well Transfer form for the DENTON COMMUNITY lease is a duplicate and will be disregarded.

Sincerely,

Kaci Clay

Division of Oil and Gas

CC: HYDROCARBON INV, INC

Inspector Brian Reynolds, Phone: 270-318-9056

Inspector Marvin Combs, Phone: 502-782-6925

1712080

HYDROCARBON INVESTMENTS, INC.

7235 N. GREEN RIVER ROAD
EVANSVILLE, IN 47725-7322

CRAIG KENDALL, PRESIDENT

TELEPHONE 812-867-8011
FAX 812-867-8012
CELL 812-453-8378

December 27, 2018

Kentucky Department for Natural Resources
Division of Oil and Gas
300 Sower Blvd.
Frankfort, KY 40601

Attn: Kaci Clay

Re: Permit 185-W Denton, Tom #1, 21-O-23 2250FSL 275FWL
Henderson County

Dear Ms. Clay:

In your letter of December 20, 2018 you stated that Permit 185-W, Tom Denton #1, is a UIC well. There is nothing in our records to indicate that this is the case. The only injection well on this lease is Permit N1241, Tom Denton #2.

Enclosed please find a topographic Gathering System Map for the Denton Lease.

Thank you,

HYDROCARBON INVESTMENTS, INC.


Craig Kendall, President

Enclosure

Cc: Jim Edgington
1673 Dunlap Drive
Princeton, IN 47670

RECEIVED

JAN 03 2019

DIVISION OF OIL & GAS

1712081

HYDROCARBON INVESTMENTS, INC.

7235 N. GREEN RIVER ROAD
EVANVILLE, IN 47725-7322

CRAIG KENDALL, PRESIDENT

TELEPHONE 812-867-8011
FAX 812-867-8012
CELL 812-453-8378

March 19, 2019

Commonwealth of Kentucky
Department for Natural Resources
Division of Oil & Gas
300 Sower Blvd.
Frankfort, KY 40601

Re: Well Transfer Forms ED-13
Cooper Ashby, Pemberton-Dozier-Jackson, Ramsey-Nisbet Leases, Hopkins County;
Denton Community Lease, Henderson County;
Well Transfer Form ED-26
Tom Denton #2 Class II-UIC Well, Henderson County.

Gentlemen:

Attached is a copy of our letter of November 16, 2018 whereby we submitted well transfer forms and payment for the above wells from Hydrocarbon Investments, Inc., to Jim Edgington. We would appreciate it if you would give us an update on the status of these transfers as soon as possible.

Thank you,



Craig Kendall

lb

Attachment (1)

RECEIVED

MAR 25 2019

DIVISION OF OIL & GAS

1712082



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

March 22, 2019

EDGINGTON, JIMMY C
1673 DUNLAP DRIVE
PRINCETON, IN 47670

Dear Sir:

Please be advised that we have this date transferred to you and placed under your bond the below listed wells. The previous operator, HYDROCARBON INV, INC, is hereby relieved of all plugging responsibility with respect to these wells.

You are required to file a topographic map for Permit 26830. The map(s) must show the location of the well; the permit number; and the flow line and/or gathering line. The map must also show where the lines are connected; the diameter of the line; and the construction type of the line. You may obtain information on printing a topographic map from the Kentucky Geological Survey's website at <http://uky.edu/KGS/>.

Permit Farm Well and Location

1757-W DENTON COMMUNITY #1, Henderson Cty. 22 O 23 2550FNL 950FEL
215-W DENTON, TOM #4, Henderson Cty. 21 O 23 2600FSL 1000FWL
222-W DENTON, TOM #5, Henderson Cty. 22 O 23 1800FSL 950FEL
24307 PEMBERTON-DOZIER-JACKSON UNIT #5, Hopkins Cty. 20 K 25 850FSL 490FEL
26830 RAMSEY-NISBET #4, Hopkins Cty. 16 K 25 2840FSL 2270FEL
277-W DENTON, TOM #6, Henderson Cty. 22 O 23 900FSL 1150FEL
3093-WF ASHBY, COOPER #3, Hopkins Cty. 14 L 26 620FSL 3150FEL
747-W GATES, SUSANNA A #2, Henderson Cty. 22 O 23 2150FSL 1500FEL

Sincerely,

Kaci Clay
Division of Oil and Gas

CC: HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Cyrus Britt, Phone: 270-824-7523
Inspector Marvin Combs, Phone: 502-782-6925

1712083



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES**

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

March 22, 2019

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

We are in receipt of your letter regarding Permit 185-W dated December 27, 2018. Due to the conflicting records of the well type, an inspection has been requested.

Sincerely,

A handwritten signature in black ink, appearing to read "Kaci Clay", is written over a horizontal line.

Kaci Clay
Division of Oil and Gas

CC: EDGINGTON, JIMMY C
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Marvin Combs, Phone: 502-782-6925

Clay, Kaci (EEC)

From: Reynolds, Brian (EEC)
Sent: Friday, March 22, 2019 12:55 PM
To: Clay, Kaci (EEC)
Subject: RE: Permit 185-W inspection for transfer

Will do

From: Clay, Kaci (EEC) <Kaci.Clay@ky.gov>
Sent: Friday, March 22, 2019 9:59 AM
To: Reynolds, Brian (EEC) <brian.reynolds@ky.gov>
Subject: Permit 185-W inspection for transfer

Re: Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL

Hi Brian,

Can you inspect this well? Our records indicate that it's an SRI well, but HYDROCARBON INV, INC claims that it is not.

** Inspected 3-22-19; well type changed to Oil*

1712085



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

April 09, 2019

EDGINGTON, JIMMY C
1673 DUNLAP DRIVE
PRINCETON, IN 47670

Dear Sir:

Please be advised that we have this date transferred to you and placed under your bond the below listed wells. The previous operator, HYDROCARBON INV, INC, is hereby relieved of all plugging responsibility with respect to these wells.

Permit Farm Well and Location

185-W DENTON, TOM #1, Henderson Cty. 21 O 23 2250FSL 275FWL

Sincerely,

Kaci Clay
Division of Oil and Gas

CC: HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Marvin Combs, Phone: 502-782-6925

1712086



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES**

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

Apr 09, 2019

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Well Transfer
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir or Madam:

On Tuesday, November 20, 2018, this office received a Well Transfer form requesting the above-referenced well(s) be transferred to EDGINGTON, JIMMY C.

Enclosed is a letter dated Dec 20, 2018 notifying both the selling and purchasing parties that our office had received an ED-26 Transfer of Class II-UIC Wells form for Permit N1241. The entry on the ED-13 Well Transfer form for the DENTON COMMUNITY lease was a duplicate and has been disregarded. Consequently, the listed well(s) have not been transferred and this file has been closed.

Sincerely,

Kaci Clay
Division of Oil and Gas

Enclosures

CC: EDGINGTON, JIMMY C
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Marvin Combs, Phone: 502-782-6925

GENERATED FOR MICROFILM

SELLING/ PRESENT OPERATOR
Hydrocarbon Inv, Inc
OP# 2696

BUYING/ TRANSFERING OPERATOR
Edgington, Jimmy C
OP# 170865

<input checked="" type="checkbox"/> SIGNATURE (MUST BE ORIGINAL)
<input checked="" type="checkbox"/> ADDRESS & PHONE NUMBER
<input checked="" type="checkbox"/> INFO ON WELL TRANS FORM
<input checked="" type="checkbox"/> COMPLETION STATUS & RECORDS
<input checked="" type="checkbox"/> BOND STATUS
<input checked="" type="checkbox"/> PRODUCTION STATUS
<input checked="" type="checkbox"/> MIT TEST IN LAST 5 YRS (UIC ONLY)
<input checked="" type="checkbox"/> OP LICENSE 2004-CURRENT YEAR
<input checked="" type="checkbox"/> TRANSFER FEES RECEIVED
<input checked="" type="checkbox"/> E-MAIL INSPECTOR 12-20-18
<input checked="" type="checkbox"/> RECEIVED INSPECTOR'S OK
<input type="checkbox"/> AS BUILT PLAT
<input type="checkbox"/> INCL SURVEY

<input checked="" type="checkbox"/> SIGNATURE (MUST BE ORIGINAL)
<input checked="" type="checkbox"/> ADDRESS & PHONE NUMBER
<input checked="" type="checkbox"/> TANK VIOLATIONS
<input checked="" type="checkbox"/> PERMIT VIOLATIONS
<input type="checkbox"/> BOND TO COVER WELLS
<input checked="" type="checkbox"/> PRODUCTION STATUS
<input checked="" type="checkbox"/> OP LICENSE 2004-CURRENT YEAR
<input type="checkbox"/> ED-11/FEES/MAPS (effective 03/18/04)
<input checked="" type="checkbox"/> Ed-11 MAP

- need bond (\$7,400.00)
 - need map - rec'd 1-3-19

COMMONWEALTH OF KENTUCKY
 DEPARTMENT FOR NATURAL RESOURCES
 DIVISION OF OIL AND GAS
 300 SOWER BLVD.
 FRANKFORT KY 40601
 PHONE: 502-573-0147
 FAX: 502-564-4245
 http://oilandgas.ky.gov



OFFICE USE ONLY

TR LEDGER #	<u>218054</u>
OPERATOR NUMBER:	<u>170865</u>
BOND NUMBER:	
TRANSFER FEE:	\$25.00/WELL
TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED:	<u>1</u>
TOTAL AMOUNT REMITTED ON THIS FORM:	\$25.00

TRANSFER OF CLASS II-UIC WELLS

PRESENT OPERATOR:
 OPERATOR: Hydrocarbon Investments Inc. 2696
 ADDRESS: 7235 N. Green River Rd
Evansville, IN 47725
 PHONE NO: 812-867-8011
 TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 1
 LEASE NAME: Tom Denton ✓

TRANSFERRED TO:
 OPERATOR: Jim Edgington
 ADDRESS: 1673 Dunlap Dr.
Princeton, IN 47670
 PHONE NO: 812-779-6736
 IF CORPORATION, NAME OF PRINCIPAL OFFICER:
 COUNTY: Henderson ✓

CARTER COORDINATES

WELL #	SEC:	LTR:	NO:	FNL/FSL	FEL/FWL	PERMIT #	Mechanical Integrity Test Performed in last 5 years
<u>2</u> ✓	<u>22</u>	<u>0</u>	<u>23</u>	<u>1650</u>	<u>50</u>	<u>N1241</u> ✓	<input checked="" type="checkbox"/> 9-23-15
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>
				FNL/FSL	FEL/FWL		<input type="checkbox"/>

ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS, REQUEST THE DIVISION OF OIL AND GAS, TO TRANSFER AND PLACE THESE WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 353 AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

11/5/18
 DATE
Jimmy Edgington
 SIGNATURE OF PURCHASER
owner
 TITLE

Purchaser assumes all responsibility for the well(s) and provides financial responsibility pursuant to section 805 KAR 1:110.
 ACKNOWLEDGED: [Signature]
 SIGNATURE OF SELLING OPERATOR
President
 TITLE

INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE ARE MORE WELLS THAN CAN BE LISTED ON THIS SHEET. ENCLOSE \$25.00 PER WELL TRANSFER FEE.
 MAKE CHECKS PAYABLE TO: KENTUCKY STATE TREASURER



1712089

HYDROCARBON INVESTMENTS, INC.

7235 N. GREEN RIVER ROAD
EVANSVILLE, IN 47725-7322

CRAIG KENDALL, PRESIDENT

TELEPHONE 812-867-8011
FAX 812-867-8012
CELL 812-453-8378

November 16, 2018

Commonwealth of Kentucky
Department for Natural Resources
Division of Oil & Gas
300 Sower Blvd.
Frankfort, KY 40601

COPY

Re: Well Transfer Forms ED-13
Cooper Ashby, Pemberton-Dozier-Jackson, Ramsey-Nisbet Leases, Hopkins County;
Denton Community Lease, Henderson County;
Well Transfer Form ED-26
Tom Denton #2 Class II-UIC Well, Henderson County.

Gentlemen:

Enclosed are executed well transfer forms for the above properties along with our check #24855 for \$275.00 covering the fees to transfer wells that are operated by Hydrocarbon Investments, Inc., in Kentucky to Jim Edgington.

Thank you,

Craig Kendall

Lb
Enclosures

RECEIVED

MAR 25 2019

DIVISION OF OIL & GAS

Clay, Kaci (EEC)

From: Reynolds, Brian (EEC)
Sent: Thursday, December 20, 2018 9:49 AM
To: Clay, Kaci (EEC)
Subject: Re: Pending Well Transfer from HYDROCARBON INV, INC to EDGINGTON, JIMMY C

Not that I'm aware of

Sent from my iPhone

On Dec 20, 2018, at 8:45 AM, Clay, Kaci (EEC) <Kaci.Clay@ky.gov> wrote:

Any objections to transfer of:
N1241, DENTON, TOM 2 in Henderson cty

1712091



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES**

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

December 20, 2018

EDGINGTON, JIMMY C
1673 DUNLAP DRIVE
PRINCETON, IN 47670

Re: Permit N1241 DENTON, TOM #2, Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

The operator of Class II wells must provide financial coverage to adequately plug and abandon the well. Therefore, you are required to submit a bond in the amount of \$7,400.00. Bonding must be in the form of Individual Cash Bond, Individual Certificate of Deposit, Individual Letter of Credit, or Individual Surety Bond.

A topographic map is required to be filed on the wells listed above. The map must show the location of the well; the permit number; the injection flow line and gathering line. The map must also show where the lines are connected, the diameter and the construction type of the lines. You may obtain information on printing a topographic map from the Kentucky Geological Survey's website at <http://uky.edu/KGS/>.

Sincerely,

Kaci Clay

Division of Oil and Gas

CC: HYDROCARBON INV, INC

Inspector Brian Reynolds, Phone: 270-318-9056

Inspector Marvin Combs, Phone: 502-782-6925

1712092

HYDROCARBON INVESTMENTS, INC.

7235 N. GREEN RIVER ROAD
EVANVILLE, IN 47725-7322

CRAIG KENDALL, PRESIDENT

TELEPHONE 812-867-8011
FAX 812-867-8012
CELL 812-453-8378

March 19, 2019

Commonwealth of Kentucky
Department for Natural Resources
Division of Oil & Gas
300 Sower Blvd.
Frankfort, KY 40601

Re: Well Transfer Forms ED-13
Cooper Ashby, Pemberton-Dozier-Jackson, Ramsey-Nisbet Leases, Hopkins County;
Denton Community Lease, Henderson County;
Well Transfer Form ED-26
Tom Denton #2 Class II-UIC Well, Henderson County.

Gentlemen:

Attached is a copy of our letter of November 16, 2018 whereby we submitted well transfer forms and payment for the above wells from Hydrocarbon Investments, Inc., to Jim Edgington. We would appreciate it if you would give us an update on the status of these transfers as soon as possible.

Thank you,



Craig Kendall

lb

Attachment (1)



1712093



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

March 22, 2019

EDGINGTON, JIMMY C
1673 DUNLAP DRIVE
PRINCETON, IN 47670

Re: Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

The operator of and Underground Injection Control (UIC) well must provide financial coverage to adequately plug and abandon the well. Therefore you are to submit financial responsibility in the amount of \$7,400.00. Acceptable forms of coverage include a cashier's check or money order; an irrevocable letter or credit; or a certificate of deposit.

Sincerely,

A handwritten signature in black ink, appearing to read "Kaci Clay".

Kaci Clay
Division of Oil and Gas

CC: HYDROCARBON INV, INC
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Marvin Combs, Phone: 502-782-6925

1712094



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES**

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

April 09, 2019

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725

Re: Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir:

We are in receipt of your letter dated March 19, 2019 regarding Permit N1241. Until our office has received a UIC bond in the amount of \$7,400.00 from EDGINGTON, JIMMY C, this well cannot be transferred. Enclosed is a copy of the transfer rejection letter dated March, 22, 2019 informing both parties of this requirement.

Sincerely,

Kaci Clay
Division of Oil and Gas

CC: EDGINGTON, JIMMY C
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Marvin Combs, Phone: 502-782-6925

Enclosure

1712095



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

July 31, 2019

EDGINGTON, JIMMY C
1673 DUNLAP DRIVE
PRINCETON, IN 47670

Re: Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir:

Your request to transfer wells cannot be processed until the following items are addressed:

The operator of and Underground Injection Control (UIC) well must provide financial coverage to adequately plug and abandon the well. Therefore you are to submit financial responsibility in the amount of \$7,400.00. Acceptable forms of coverage include a cashier's check or money order; an irrevocable letter or credit; or a certificate of deposit.

Please submit the bond no later than 8/14/2019 or this file will be closed.

Sincerely,

A handwritten signature in black ink, appearing to read "Kaci Clay".

Kaci Clay
Division of Oil and Gas

CC: HYDROCARBON INV, INC
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Ron Norris, Phone: 270-670-6774

Clay, Kaci (EEC)

From: Hydrocarbon Investments, Inc. <hydrocarboninvestments@hotmail.com>
Sent: Tuesday, August 06, 2019 11:31 AM
To: Clay, Kaci (EEC)
Subject: Re: Tom Denton #2 Permit N1241, Henderson Co., KY

Thanks Kaci!

Lana

Hydrocarbon Investments, Inc.
7235 N. Green River Rd.
Evansville, IN 47725-7322
812-867-8011
812-867-8012 Fax

From: Clay, Kaci (EEC) <Kaci.Clay@ky.gov>
Sent: Tuesday, August 6, 2019 10:27 AM
To: Hydrocarbon Investments, Inc. <hydrocarboninvestments@hotmail.com>
Cc: Hardin, Rebecca (EEC) <Rebecca.Hardin@ky.gov>; Craig Kendall <rckendall@hotmail.com>
Subject: RE: Tom Denton #2 Permit N1241, Henderson Co., KY

Lana,

You can follow Rebecca's email for \$5,800.00 by August 16 – I got my amount from a previous letter that was sent prior to the director accepting the EPA bonding amount.

Thanks,
Kaci

From: Hydrocarbon Investments, Inc. <hydrocarboninvestments@hotmail.com>
Sent: Tuesday, August 06, 2019 10:48 AM
To: Clay, Kaci (EEC) <Kaci.Clay@ky.gov>
Cc: Hardin, Rebecca (EEC) <Rebecca.Hardin@ky.gov>; Craig Kendall <rckendall@hotmail.com>
Subject: Tom Denton #2 Permit N1241, Henderson Co., KY

Dear Kaci,

On July 31, 2019 you sent a letter to Jimmy Edgington about the Tom Denton #2 Permit N1241 stating that he is required to submit a plugging bond for \$7,400.00 before the well can be transferred to him. On the same day we received an email from Rebecca Hardin stating the amount of the bond has been set at \$5,800.00. Your letter also said the deadline is August 14, 2019, but Rebecca's email says August 16, 2019.

Would you please check with Rebecca and let us know right away which amount and date is correct.

Thanks for your help!

Lana Barkman

1712097



MATTHEW G. BEVIN
GOVERNOR

CHARLES G. SNAVELY
SECRETARY

**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES**

JOHN D. SMALL
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

Aug 20, 2019

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Well Transfer
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir or Madam:

On Tuesday, November 20, 2018, this office received a Well Transfer form requesting the above-referenced well(s) be transferred to EDGINGTON, JIMMY C.

Enclosed is a letter dated Jul 31, 2019 notifying both the selling and purchasing parties of the items needed in order to complete the transfer. To date, we have not received the required items. Consequently, the listed well(s) have not been transferred and this file has been closed. HYDROCARBON INV, INC remains the liable operator of the well(s).

You may submit a new Well Transfer form along with the associated fee(s) if you are interested in transferring the well(s) to another operator.

Sincerely,

Kaci Clay
Division of Oil and Gas

Enclosures

CC: EDGINGTON, JIMMY C
Inspector Brian Reynolds, Phone: 270-318-9056
Inspector Ron Norris, Phone: 270-670-6774

1672267

COMMONWEALTH OF KENTUCKY

DEPARTMENT OF MINES & MINERALS
DIVISION OF OIL AND GAS
P.O. BOX 2244
FRANKFORT, KY 40601
PHONE (502) 573-0147

OFFICE USE ONLY

TR LEDGER #: 20533e-342
OPERATOR NUMBER: 191318
BOND NUMBER: BC 822172
TRANSFER FEE: \$25.00/WELL
TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 7
TOTAL AMOUNT REMITTED ON THIS FORM: \$175.00

WELL TRANSFER

PRESENT OPERATOR: HYDROCARBON INVESTMENTS, INC.

TRANSFERRED TO: Kentucky Exploration LLC

ADDRESS: 7235 N. GREEN RIVER ROAD

OPERATOR: Kentucky Exploration

EVANSVILLE, IN 47725

ADDRESS: P.O. Box 622

E-MAIL: hydrocarboninvestments@hotmail.com

Henderson Ky. 42419

PHONE NO: 812-867-8011

E-MAIL: thart@austineexploration.com

TOTAL NUMBER OF WELLS ON THIS LEASE TO BE TRANSFERRED: 7

PHONE NO: 270-854-8174

LEASE NAME: DENTON COMMUNITY

IF CORPORATION, NAME OF PRINCIPAL OFFICER:

COUNTY: HENDERSON

WELL NO.	CARTER COORDINATE SPOT LOCATIONS	PERMIT NO.
1 ✓	22-O-23 2550FNL 950FEL ✓ Denton Community	1757-W ✓
1 ✓	21-O-23 2200FSL 275FWL ✓ Tom Denton	185-W ✓
4 ✓	21 O 23 2600FSL 1000FWL ✓ Tom Denton	215-W ✓
5 ✓	22-O-23 1800FSL 950FEL ✓ Tom Denton	222-W ✓
6 ✓	22-O-23 900FSL 1150FEL ✓ Tom Denton	277-W ✓
2 ✓	22-O-23 2150FSL 1500FEL ✓ Susanna Gates	747-W ✓
2 ✓	22-O-23 1650FSL 50FEL ✓ Tom Denton	N1241 ✓

ATTEST: I, THE UNDERSIGNED, SUCCESSOR IN TITLE TO THE WELLS LISTED ABOVE OR ON THE ATTACHED SHEETS, REQUEST THE DIVISION OF OIL AND GAS, DEPARTMENT OF MINES AND MINERALS TO TRANSFER AND PLACE THESE WELLS UNDER MY BOND. THEREBY, I AM ASSUMING COMPLETE RESPONSIBILITY FOR THEM UNDER KRS CHAPTER 32 AND THE RULES AND REGULATIONS PROMULGATED THEREUNDER.

1/21/15
DATE

Smith B Hart
SIGNATURE OF PURCHASER

RECEIVED
FEB - 6 2015
DIVISION OF OIL & GAS

ACKNOWLEDGED:

Craig Sandell Pres. Hobbs
SIGNATURE OF SELLING OPERATOR

INSTRUCTIONS: USE A SEPARATE FORM FOR EACH LEASE. ATTACH A SEPARATE LIST, IF THERE IS MORE WELLS THAT CAN BE LISTED ON THIS SHEET. MAKE CHECKS PAYABLE TO "THE KENTUCKY STATE TREASURER."



1672268

ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Natural Resources
Division of Oil and Gas
Post Office Box 2244
Frankfort, KY 40602
Phone: (502) 573-0147 Fax: (502) 573-1099
<http://oilandgas.ky.gov>

Leonard K. Peters
Secretary

March 18, 2015

KENTUCKY EXPLORATION LLC
7985 W 16TH AVENUE
LAKEWOOD, CO 80214

Re: Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL
Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir

Your request to transfer wells cannot be processed until the following items are addressed:

Pursuant to 805KAR 1:190 and effective March 18, 2004, all operators are required to obtain a Gathering Line Operator's License and renew it annually. Our records indicate the buying operator has not obtained one for the year(s) 2015. The buyer must forward to us a check for \$100.00 made payable to KENTUCKY STATE TREASURER before we can continue to process your transfer request.

Sincerely,

Jessica Hoskins
Division of Oil and Gas

CC: HYDROCARBON INV, INC
Inspector Bert Combs, Phone:270-884-3761
Inspector Cyrus Britt, Phone:270-824-7523

Q 532 Rose St. L

RECEIVED
APR 29 2015
DIVISION OF OIL & GAS

1672269

Well

OIL WELLS

438

449

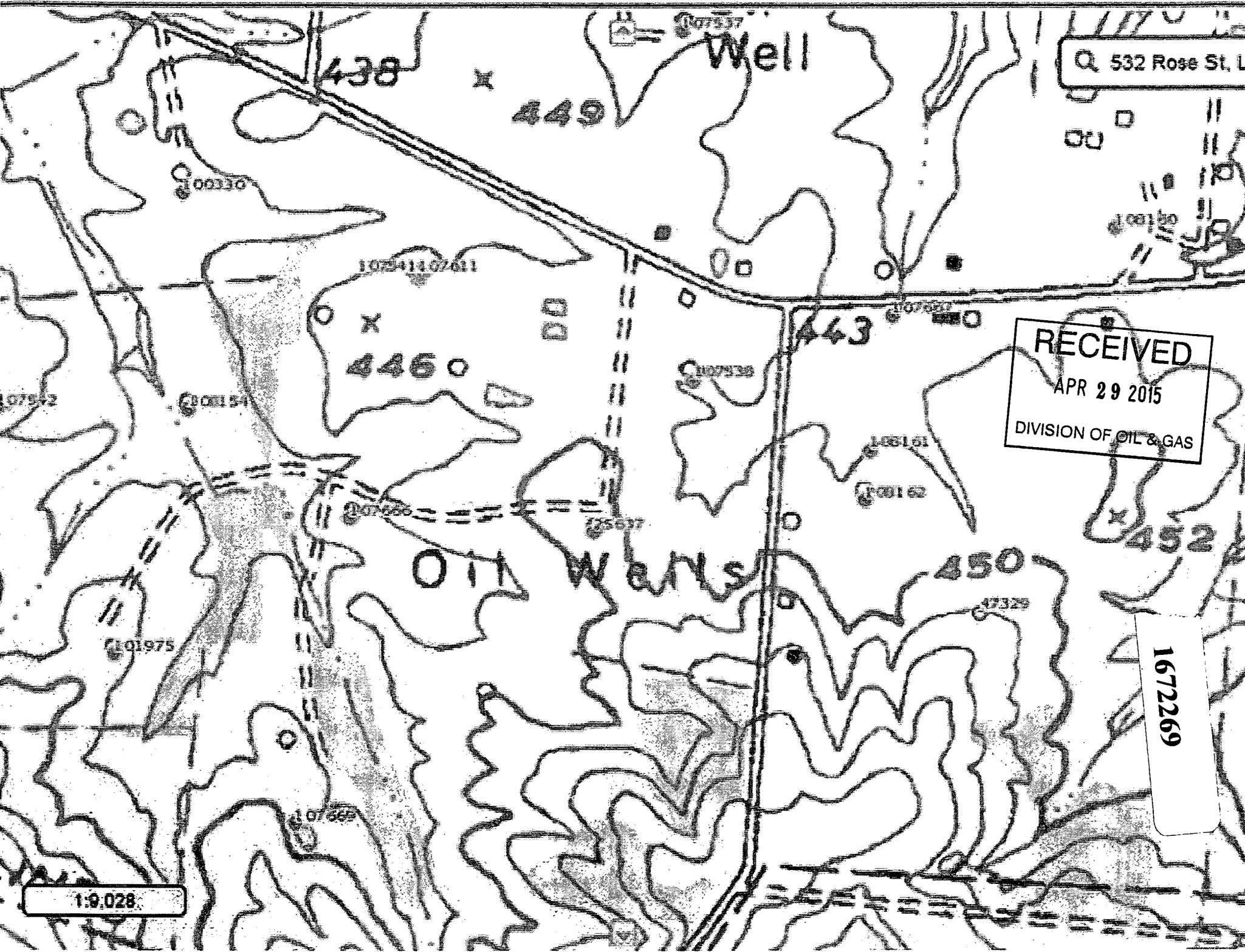
446

443

450

452

1:9,028



MATTHEW G. BEVIN
GOVERNOR



1672270

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR NATURAL RESOURCES
DIVISION OF OIL AND GAS

CHARLES G. SNAVELY
SECRETARY

ALLEN LUTTRELL
Commissioner

300 SOWER BLVD
POST OFFICE BOX 2244
FRANKFORT, KY 40602
TELEPHONE: 502-573-0147
TELEFAX: 502-564-4245
<http://oilandgas.ky.gov>

Jan 18, 2017

HYDROCARBON INV, INC
7235 N GREEN RIVER RD
EVANSVILLE, IN 47725-7322

Re: Well Transfer

Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 185-W DENTON, TOM #1 Henderson Cty. 21 O 23 2250FSL 275FWL
Permit 215-W DENTON, TOM #4 Henderson Cty. 21 O 23 2600FSL 1000FWL
Permit 222-W DENTON, TOM #5 Henderson Cty. 22 O 23 1800FSL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL
Permit N1241 DENTON, TOM #2 Henderson Cty. 22 O 23 1650FSL 50FEL

Dear Sir or Madam:

On Friday, February 06, 2015, this office received a Well Transfer form requesting the above-referenced well(s) be transferred to KENTUCKY EXPLORATION LLC.

Enclosed is a letter dated Mar 18, 2015 notifying both the selling and purchasing parties of the items needed in order to complete the transfer. To date, we have not received the required items. Consequently, the listed well(s) have not been transferred and this file has been closed. HYDROCARBON INV, INC remains the liable operator of the well(s).

You may submit a new Well Transfer form along with the associated fee(s) if you are interested in transferring the well(s) to another operator.

Sincerely,

A handwritten signature in black ink that reads "Jessica Roberts".
Jessica Roberts
Division of Oil and Gas

Enclosures

CC: KENTUCKY EXPLORATION LLC.
Inspector Bert Combs, Phone: 270-884-3761
Inspector Cyrus Britt, Phone: 270-824-7523

KentuckyUnbridledSpirit.com



An Equal Opportunity Employer M/F/D



1672271

ENERGY AND ENVIRONMENT CABINET

Department for Natural Resources

Steven L. Beshear
Governor

Leonard K. Peters
Secretary

Division of Oil and Gas

Post Office Box 2244
Frankfort, KY 40602

Phone: (502) 573-0147 Fax: (502) 573-1099
<http://oilandgas.ky.gov>

March 18, 2015

KENTUCKY EXPLORATION LLC
7985 W 16TH AVENUE
LAKEWOOD, CO 80214

Re: Permit 1757-W DENTON COMMUNITY #1 Henderson Cty. 22 O 23 2550FNL 950FEL
Permit 277-W DENTON, TOM #6 Henderson Cty. 22 O 23 900FSL 1150FEL
Permit 747-W GATES, SUSANNA A #2 Henderson Cty. 22 O 23 2150FSL 1500FEL

Dear Sir

Your request to transfer wells cannot be processed until the following items are addressed:

A topographic map is required to be filed on the wells listed above. The map must show the operator name; well location; permit number; the flow line and gathering line. The map must also show where the lines are connected; line diameter; construction type; system name and the map date. You may obtain information on printing a topographic map from the Kentucky Geological Survey's website at <http://uky.edu/KGS/>.

Sincerely,

Jessica Hoskins

Division of Oil and Gas

CC: HYDROCARBON INV, INC
Inspector Bert Combs, Phone:270-884-3761
Inspector Cyrus Brit, Phone:270-824-7523



1277687

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

Department of Natural Resources
Division of Oil and Gas Conservation
Post Office Box 2244
Frankfort, Kentucky 40602
Phone (502) 573-0147 Fax (502) 573-1099
www.kentucky.gov

Teresa J. Hill
Secretary

Susan C. Bush
Commissioner

5/31/2007

Certified No: 4181 6823

HYDROCARBON INV, INC
PO BOX 5167
EVANSVILLE, IN 47716

Re: Permit N1241: DENTON, TOM #2
Location: Henderson County, 22 O 23 1650FSL 50FEL

Dear Sir:

An inspector from this division has reported that you are the operator of the above-referenced well and are in violation of the Statutes and Administrative Regulations of the Commonwealth as follows:

***Statute and/or
Administrative Regulation Violation***

KRS 353.550 Improperly abandoned (Not producing or plugged)

Please contact the Division of Oil and Gas Inspector who will advise you of actions required. After you have contacted the inspector and satisfied the requirements of the field violations, he will forward a Report of Clearance to our office. A Well Log and Completion Report, electric logs (if run) and a Plugging Affidavit (if plugged) shall be filed with this office before the subject violation may be cleared. If these records were filed prior to the citation of the violation, then you shall file other supporting documents describing the steps taken to correct this matter before the violation can be cleared.

Clearance of a violation requires both the filing of the appropriate record (if not previously on file) and the Report of Clearance from the Inspector.

If compliance is not accomplished on the subject well within 45 days, by you or the bondholder acting on your behalf, we shall forfeit your bond. If your bond is forfeited you shall no longer be authorized to operate wells subject to that bond. No permits will be issued to you until this violation is cleared.

Sincerely,

Rebecca Hardin
Division of Oil and Gas Conservation

cc: Inspector Jennifer Miller, Phone:270-577-2480
Inspector Supervisor Cyrus Britt, Phone:270-824-7523
Your \$5,000 Blanket Cash Bond
OLD NATIONAL BANK IN EVANSVILLE (\$5,000 Blanket Letter of Credit #726845435)

1506704

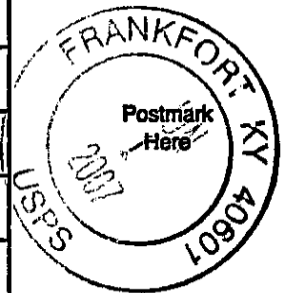
4589 1974 0000 0977 4002

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OLD NATIONAL BANK IN EVANSVILLE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To

DIVISION OF OIL & GAS
P.O. BOX 2244
FRANKFORT, KY 40601

*Street, Apt. No.,
or PO Box No.*

City, State, ZIP+4

PS Form 3800, June 2002

See Reverse for Instructions

45 Permit # 185-W, 215-W & N1241

Certified Mail Provides:

PS Form 3800, June 2002 (Reverse)

- A mailing receipt
- A unique identifier for your mailpiece
- A record of delivery kept by the Postal Service for two years

Important Reminders:

- Certified Mail may **ONLY** be combined with First-Class Mail® or Priority Mail®.
- Certified Mail is *not* available for any class of international mail.
- **NO INSURANCE COVERAGE IS PROVIDED** with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "*Restricted Delivery*".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.
Internet access to delivery information is not available on mail addressed to APOs and FPOs

FRANKFORT KY 40601

1508430

7004 1150 0000 7875 9289

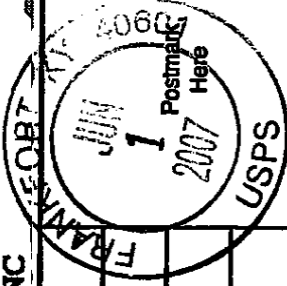
U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

HYDROCARBON INV, INC

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To

DIVISION OF OIL & GAS

P.O. BOX 2244

FRANKFORD, NY 40661

Street, Apt. No.,
or PO Box No.

City, State, ZIP+4

PS Form 3800, June 2002

See Reverse for Instructions

45 Permit # 185W, 215-W & N1241

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A record of delivery kept by the Postal Service for two years

(easier) 2002 eunr '0089 wof Sd

Important Reminders:

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- Certified Mail is *not* available for any class of international mail.
- **NO INSURANCE COVERAGE IS PROVIDED** with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "Restricted Delivery".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry. Internet access to delivery information is not available on mail addressed to APOs and FPOs.

Guadalupe Cummins-Sanchez

From: Guadalupe Cummins-Sanchez
Sent: Thursday, February 23, 2023 7:12 PM
To: clayton.horton@grdhd.org
Subject: Public Records Request - Henderson County (Green River District HD)
Attachments: FOIA Map_and_Parcel_List_20230223.pdf

Mr. Horton,

We are conducting an environmental site assessment for six parcels of land in Henderson County, Kentucky. A parcel map and parcel information is attached for your reference.

As part of this assessment, we are required to interview local government agencies about any potential environmental concerns pertaining to the property and its vicinity. We are hoping to receive any available records for these parcels (*via email preferred*) pertaining to:

- Wells,
- Septic systems,
- Storage tanks,
- Releases or incidents involving hazardous substances and/or petroleum products,
- Historical or active landfills,
- Dumping of materials,
- Remediation sites,
- Migrating contamination, and/or
- Any other environmentally sensitive records.

I appreciate your assistance with this request. If no records are available, please let me know.

Regards,

Guadalupe Cummins

Site Assessment & Remediation

Environmental Consulting & Technology, Inc. | ectinc.com
1155 Brewery Park Boulevard | Suite 115 | Detroit, MI 48207
C: 313.282.1297

Guadalupe Cummins-Sanchez

From: Clay Horton <clayton.horton@grdhd.org>
Sent: Friday, February 24, 2023 9:30 AM
To: Guadalupe Cummins-Sanchez; Smith Whitney
Subject: Re: Public Records Request - Henderson County (Green River District HD)
Attachments: FOIA Map_and_Parcel_List_20230223.pdf

Ms. Cummins,

I'm forwarding your request to our Henderson County office for review and response. Whitney Smith will reply back to you directly. Please feel free to follow-up with Whitney if you need any pending her review.

Clay Horton
Public Health Director
Green River District Health Department
(270) 852-5569

On Thu, Feb 23, 2023 at 6:12 PM Guadalupe Cummins-Sanchez <gcummins@ectinc.com> wrote:

Mr. Horton,

We are conducting an environmental site assessment for six parcels of land in Henderson County, Kentucky. A parcel map and parcel information is attached for your reference.

As part of this assessment, we are required to interview local government agencies about any potential environmental concerns pertaining to the property and its vicinity. We are hoping to receive any available records for these parcels (*via email preferred*) pertaining to:

- Wells,
- Septic systems,
- Storage tanks,
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- Remediation sites,
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- Any other environmentally sensitive records.

I appreciate your assistance with this request. If no records are available, please let me know.

Regards,

Guadalupe Cummins

Site Assessment & Remediation

Environmental Consulting & Technology, Inc. | ectinc.com

1155 Brewery Park Boulevard | Suite 115 | Detroit, MI 48207

C: 313.282.1297



TELL US HOW WE'RE DOING!

<https://www.surveymonkey.com/r/JSNL6HR>

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270-686-7747 or fax at 270-926-9862.

www.healthdepartment.org

Guadalupe Cummins-Sanchez

From: Whitney Smith <whitney.smith@grdhd.org>
Sent: Tuesday, February 28, 2023 9:54 AM
To: Guadalupe Cummins-Sanchez
Subject: Re: Message from KM_C458

It looks like the site evaluation was done on 4/25/96 and the final inspection of the system once installed was done on 8/14/96. Yes, this is all on a septic system and the drawing provided was the layout. Is that all the information you need on this system?

On Mon, Feb 27, 2023 at 4:47 PM Guadalupe Cummins-Sanchez <gcummins@ectinc.com> wrote:

Ms. Smith,

Thank you very much for the information.

Was this site evaluation for a septic system? Looks like the evaluation was in April of 1996, what happen in August of 1996 date (the second date listed)?

Regards,

Guadalupe Cummins

Environmental Consulting & Technology, Inc.

Cell: 313-282-1297

From: Whitney Smith <whitney.smith@grdhd.org>
Sent: Monday, February 27, 2023 5:12 PM

To: Guadalupe Cummins-Sanchez <gcummins@ectinc.com>

Subject: Fwd: Message from KM_C458

Ms. Cummins,

After reviewing your request I only found information on one of the addresses you had listed.

I will include that information as an attachment with this email. It was for the location of 8619 Thomason Rd. Robards, KY 42452. I hope this information has been helpful.

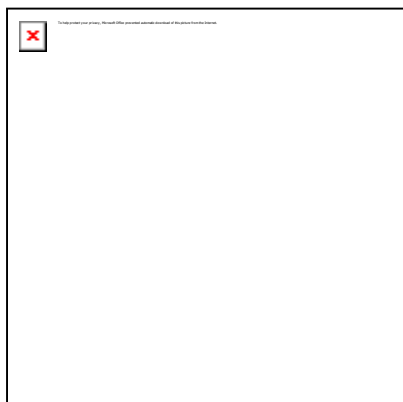
----- Forwarded message -----

From: <Henderson@grdhd.org>

Date: Fri, Feb 24, 2023 at 3:58 PM

Subject: Public Records Request- Henderson County

To: <whitney.smith@grdhd.org>



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TELL US HOW WE'RE DOING!

<https://www.surveymonkey.com/r/JSNL6HR>

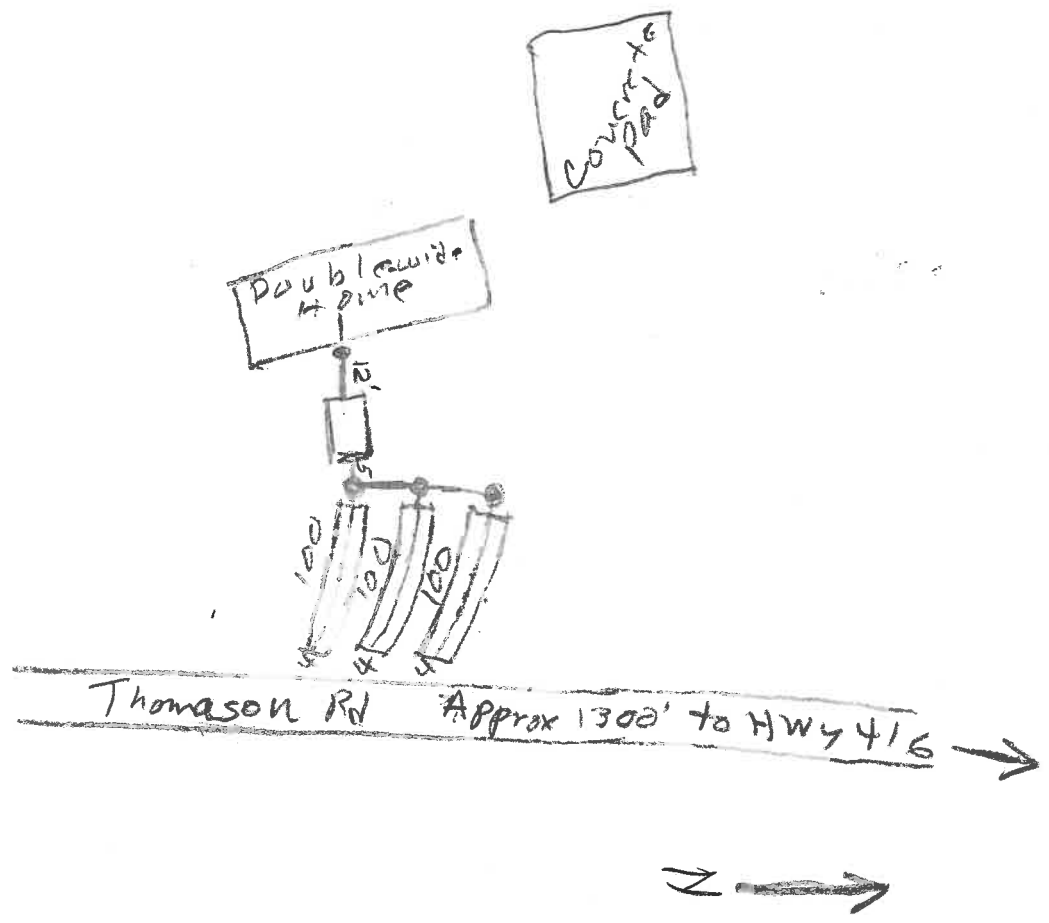
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270-686-7747 or fax at 270-926-9862.

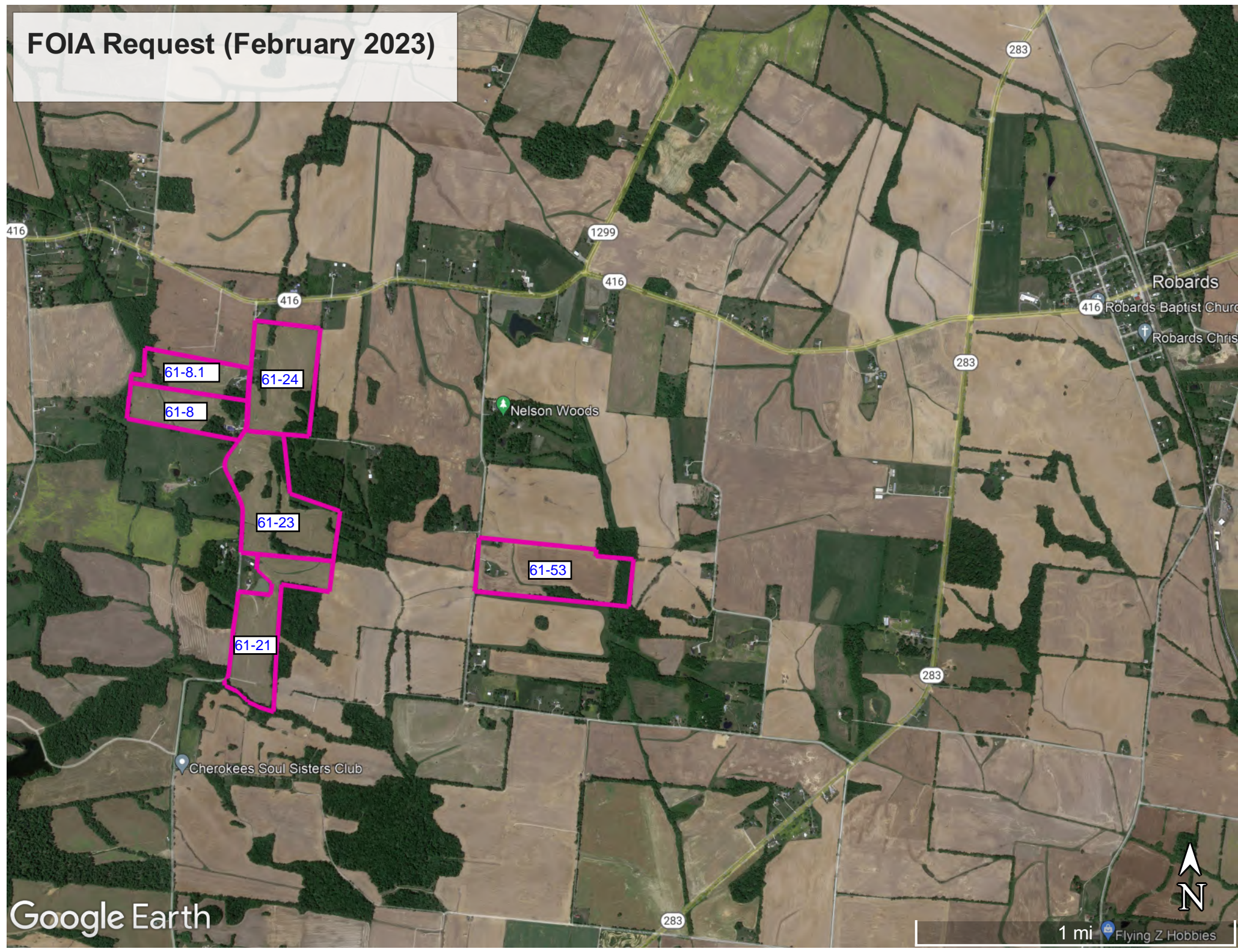
www.healthdepartment.org

Six evaluations at 125' at 2:00 PM

Drupp 2:30 PM 8/14/96



FOIA Request (February 2023)



Parcel ID	Primary Owner	Parcel Address	City	Zip Code
61-8.1	LOGSDON DEREK H & LAURA A	8619 THOMASON RD	ROBARDS	42452-9101
61-8	DENTON WILLIAM DAVID	8653 THOMASON RD	ROBARDS	42452-9101
61-24	WADE DENTON	8620 THOMASON RD	ROBARDS	42452-9101
61-23	DENTON WILLIAM DAVID	8660 THOMASON RD	ROBARDS	42452-9101
61-21	LOGSDON LAURA ANNE	8926 THOMASON RD	ROBARDS	42452-9101
61-53	CATON WILLIAM R JR & BRENDA F	8508 WN ROYSTER RD	ROBARDS	42452-9101

Guadalupe Cummins-Sanchez

From: Guadalupe Cummins-Sanchez
Sent: Thursday, February 23, 2023 7:12 PM
To: 'w_denton@bellsouth.net'
Cc: 'tristatetowtruck12@gmail.com'
Subject: Public Records Request - Henderson County (Robards FD)
Attachments: FOIA Map_and_Parcel_List_20230223.pdf

Chief Denton,

We are conducting an environmental site assessment for six parcels of land in Henderson County, Kentucky. A parcel map and parcel information is attached for your reference.

As part of this assessment, we are required to interview local government agencies about any potential environmental concerns pertaining to the property and its vicinity. We are hoping to receive any available records for these parcels (*via email preferred*) pertaining to:

- Fires,
- Storage tanks,
- Releases or incidents involving hazardous substances and/or petroleum products,
- Historical or active landfills,
- Dumping of materials,
- Remediation sites,
- Migrating contamination, and/or
- Any other environmentally sensitive records.

I appreciate your assistance with this request. If no records are available, please let me know.

Regards,

Guadalupe Cummins

Site Assessment & Remediation

Environmental Consulting & Technology, Inc. | ectinc.com
1155 Brewery Park Boulevard | Suite 115 | Detroit, MI 48207
C: 313.282.1297

Guadalupe Cummins
Environmental Consulting & Technology, Inc.

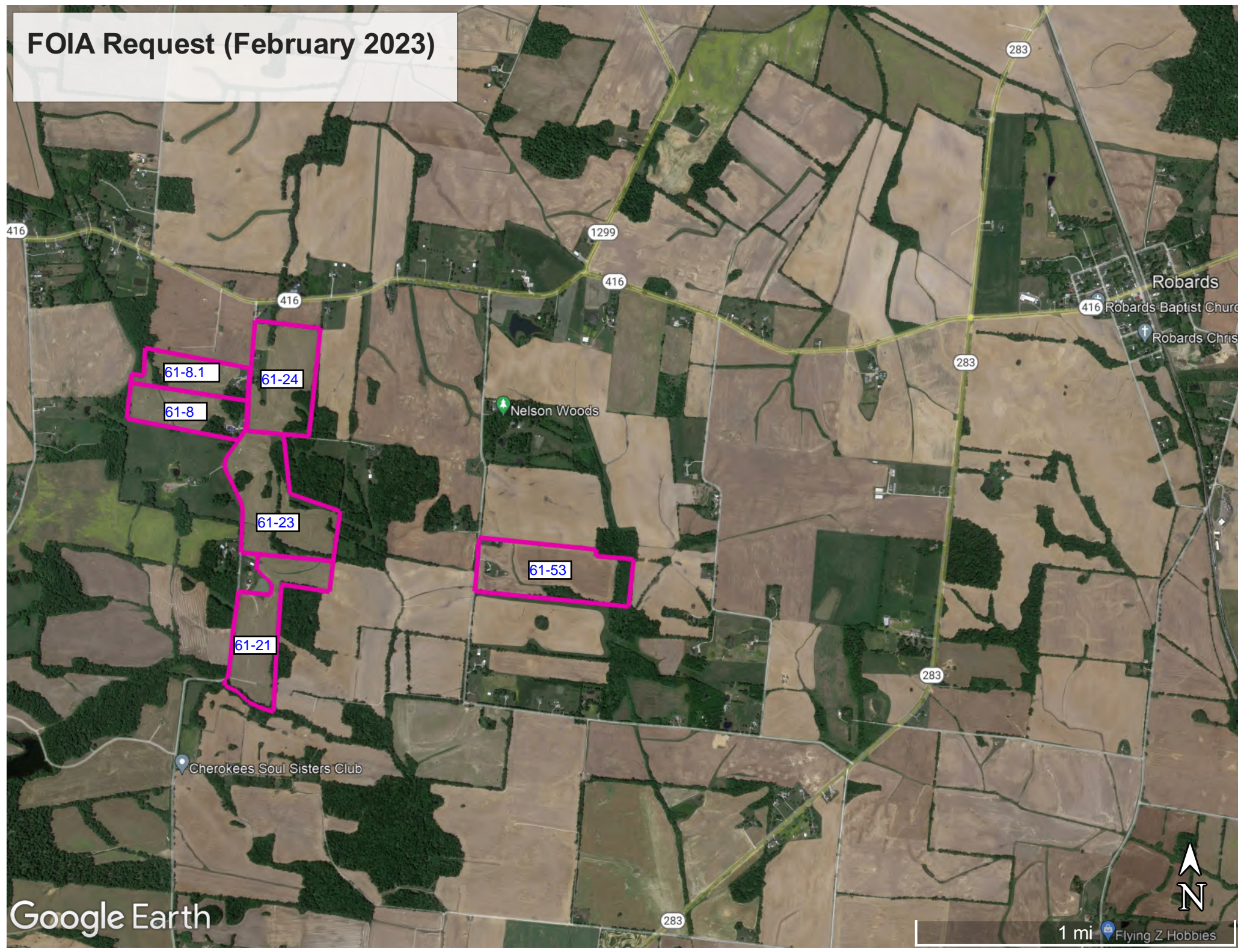
Cell: 313-282-1297

Guadalupe Cummins-Sanchez

From: WILLIAM DAVID DENTON <w_denton@bellsouth.net>
Sent: Saturday, February 25, 2023 4:28 PM
To: Guadalupe Cummins-Sanchez
Cc: David Denton
Subject: Parcels

Referencing parcels 61-8.1, 61-8, 61-23, 61-21, 61-24 and 61-53. The only fire in the last ten years was a tractor fire on 61-8 in December of 2020. No other responses have been made to these except for medical runs.

FOIA Request (February 2023)



Parcel ID	Primary Owner	Parcel Address	City	Zip Code
61-8.1	LOGSDON DEREK H & LAURA A	8619 THOMASON RD	ROBARDS	42452-9101
61-8	DENTON WILLIAM DAVID	8653 THOMASON RD	ROBARDS	42452-9101
61-24	WADE DENTON	8620 THOMASON RD	ROBARDS	42452-9101
61-23	DENTON WILLIAM DAVID	8660 THOMASON RD	ROBARDS	42452-9101
61-21	LOGSDON LAURA ANNE	8926 THOMASON RD	ROBARDS	42452-9101
61-53	CATON WILLIAM R JR & BRENDA F	8508 WN ROYSTER RD	ROBARDS	42452-9101

Appendix J

Photographic Documentation

Description

Subject Property Parcel 61-53 and Adjoining
Looking South



Description

Subject Property Parcel 61-8.1 Looking
Southwest



Description

Subject Property Parcel 61-8 Looking Northwest



Description

Subject Property Parcel 61-24 Looking North



Description

Subject Property Parcel 61-53 Looking West



Description

Subject Property Surface Water Parcel 61-8.1



Description

Adjoining Property to East Parcel 61-21



Description

Adjoining Property to North Parcel 61-53



Description

Adjoining Property to South Parcel 61-8



Description

Adjoining Property to West Parcel 61-23



Description

Adjoining Property to West Parcel 61-21



Description

Active Oil Well Parcel 61-21 Looking East



Description

Active Oil Well Staining Parcel 61-21



Description

Active Gas Well Parcel 61-21 Looking Southeast



Description

Active Gas Well Parcel 61-21 Looking East



Description

Refuse Pile Parcel 61-24 (1)



Description

Refuse Pile Parcel 61-24 (2)



Description

Refuse Pile Parcel 61-24 (3)



Description

Refuse Pile Parcel 61-53 (1)



Description

Refuse Pile Parcel 61-53 (3)



Description

Refuse Pile Parcel 61-53 (2)



Description

Gas Meter located E of Thomason Road on Parcel 61-24



Description

Pole Mounted Transformer along Thomason Road



Description

Delapidated Vehicles Parcel 61-53



Description

Barn Parcel 61-53 Looking South



Appendix K

Resumes of Environmental Consultants

>Guadalupe Cummins

Technical Writer

Ms. Cummins has over ten years of professional experience in the environmental consulting industry. Ms. Cummins has experience preparing technical documents and conducting ecological field assessments to support land development projects, electric utility maintenance, and renewable energy projects. She has experience preparing and reviewing NEPA documents, preparing ecological reports and environmental due diligence reviews, and preparing permit applications for federal, state, and local governments.



PRIOR CAREER EXPERIENCE

Environmental Protection Specialist

Federal Aviation Administration | Romulus, MI

Managed National Environmental Policy Act (NEPA) compliance documentation for airport planning and development projects requiring FAA approval and/or receiving federal funding. Area of responsibility included 50 public airports in Michigan and Ohio. Reviewed and approved NEPA documents including Categorical Exclusions and Environmental Assessments. Performed interagency consultation and coordination with USFWS, Michigan SHPO, Ohio SHPO, and USACE to support FAA decisions. Authored decision documents (i.e., FONSI, approval letters, grant file memoranda).

Associate Scientist

Environmental Consulting & Technology, Inc. | Ann Arbor, MI

Coordinated, planned for, secured, and tracked environmental permits for multiple electric utility maintenance projects in Michigan. Prepared technical documents requiring research, literature review, and data analysis, including NEPA documents, ecological assessments, environmental due diligence reviews, and permit applications for land development and renewable energy projects. Performed a variety of ecological field work, including habitat assessments and mapping, threatened and endangered species surveys, wetland assessments, vegetation inventories, and invasive species control activities. Prepared project maps utilizing ArcGIS. Routinely supported team members with peer-review/proofreading and formatting of technical documents.

Natural Resources Consultant | Atwell, LLC | Southfield, MI

Prepared technical environmental documents and permit applications for federal, state, and local entities. Conducted a variety of ecological field work for land development and renewable energy projects. Conducted Phase I ESA inspections and reports for commercial, industrial, and telecommunication sites.

EDUCATION

M.S., Environmental Science
University of Michigan-Dearborn

B.S., Biology
Wayne State University

CREDENTIALS/AFFILIATIONS

ESA Certified Ecologist
EGLE Stormwater Construction Site Operator, Certificate No. C-16994
EGLE Industrial Stormwater Operator, Certificate No. I-14668

AREAS OF EXPERTISE

NEPA Reporting
Technical Reporting
Ecological Assessments
Local, State, and Federal Permitting

> Nicole Rockentine, RG

Geologist

Ms. Rockentine has more than seven years of professional experience in the environmental consulting industry. She is a masters-level educated registered geologist specializing in site characterization, assessment, and remediation. She is also experienced in conducting due diligence environmental assessments on traditional commercial/industrial properties to wind and solar properties up to 150,000-acres. Ms. Rockentine has completed environmental investigations and assessments in over 20 states for regulatory programs and environmental due diligence.



PREVIOUS CAREER EXPERIENCE

Kennedy Jenks Consultants | Overland Park, KS

Performed various field activities including installation of monitoring wells, collection of soil and groundwater samples, recorded and prepared lithologic soil logs, delineated groundwater contaminants, remedial groundwater injections and soil excavation oversight. Assisted in developing and writing monitoring reports, conceptual site models, data gap reports, site characterizations, risk assessments, excavation reports, site closure reports. Conducted data management of long-term monitoring and remediation projects as well as prepared graphical and geographic representation of data for field work, work plans, and reports. Designed and implemented electronic and GIS based field collection forms to increase field efficiency. Execute primary duties independently and offer support and assistance to teammates while maintaining organizational, time management, and technical writing skills.

AEI Consultants | Overland Park, KS

Performed environmental assessments and investigations on residential, commercial, and industrial properties inclusive of wind farms, dry cleaners, gas stations, and manufacturing facilities, among others. Designed, proposed, and implemented more than 70 Phase II soil, groundwater, and soil gas investigations for a variety of suspected contaminants for due diligence and liability purposes across 18 states. Effectively managed all aspects of project completion, including coordinating and scheduling vendors/contractors, negotiating pricing, overseeing field work, sample collection, preparation of soil lithology logs and scaled figures, data interpretation, report writing and recommendations. Collaborated with team members to conduct well surveying, permanent monitoring well installation, and underground storage tank removal.

EDUCATION

M.A., Geology

Miami University

B.A., Geological Sciences

Albion College

CREDENTIALS

Registered Geologist-MO License No.
2020040770

40-Hour / 8-Hour HAZWOPER Certified

AREAS OF EXPERTISE

All Appropriate Inquiries

Landowner Liability Protections

ArcGIS and ESRI applications

ASTM E2247 & E1527

Environmental Sampling

Groundwater Monitoring

Risk-Based Corrective Action

Remediation & Mitigation Programs

Technical Reporting

