

Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

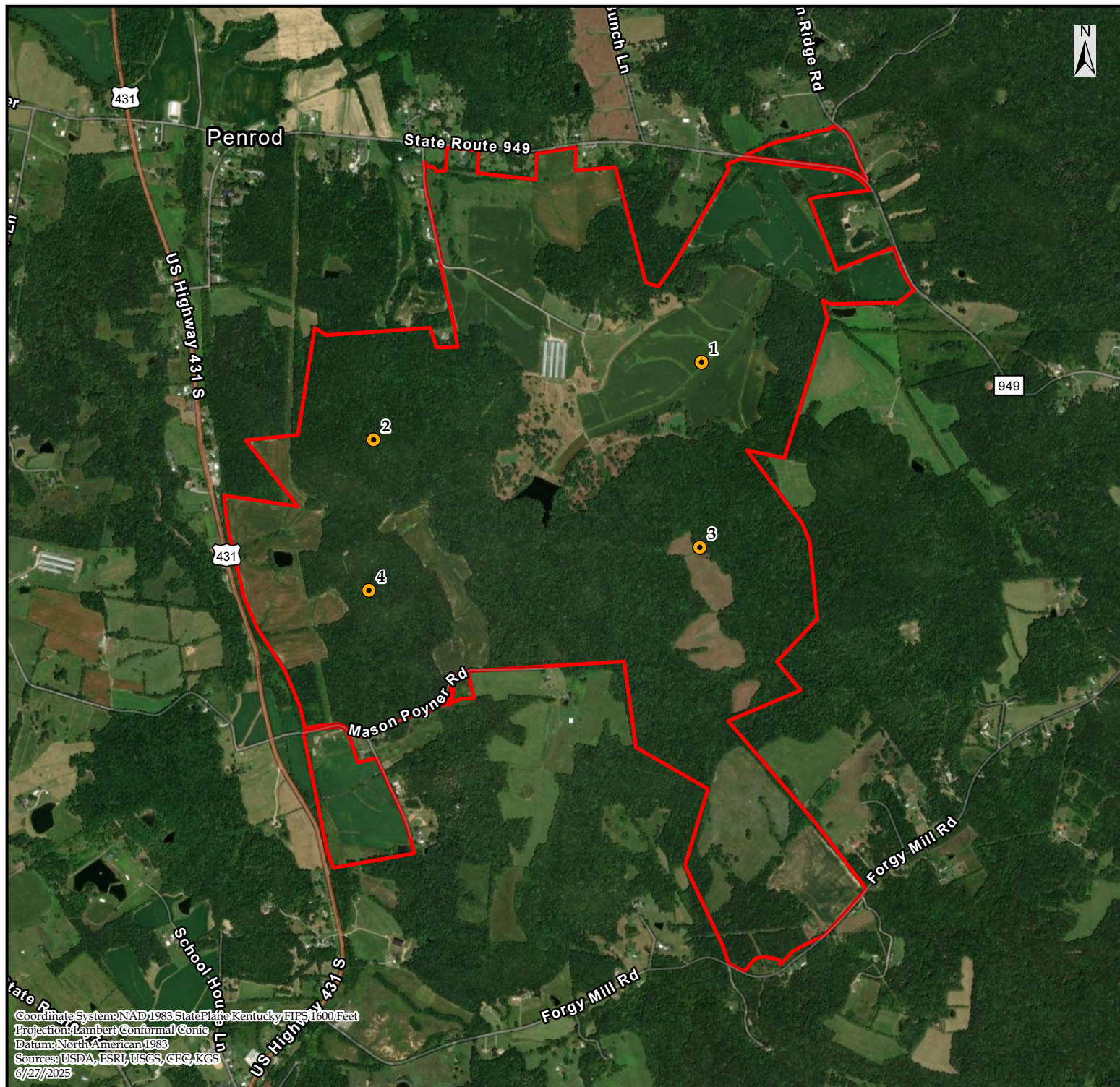
**Siting Board Post-Hearing RFI 1:**

Refer to Lost City Renewables' response to Siting Board's First Request for Information (Response to First Request), Item 37. Confirm whether the four inactive gas wells on the site have been properly plugged and abandoned, per Kentucky statute and regulation. If not, explain the response and specifically identify which gas wells are being referenced.

**Response:** The Kentucky Geological Survey (KGS) Oil and Gas Search Database identified four gas wells on the project site (see attached Post-Hearing RFI 1 Gas Well Figure). KGS data includes Well Log and Completion Reports for Gas Wells 1 and 2 and identifies the wells as dry holes with the casings pulled and the wells plugged (8/15/82 and 6/18/62) as required per Kentucky statute and regulation (see attached Post-Hearing RFI 1 Gas Well Documentation). KGS Gas Well 3's records identified the well as dry and abandoned (4/19/56). KGS Gas Well 4's records identified the well as dry and plugged (3/10/48).

Gas Wells 3 and 4 were drilled prior to Kentucky's 1960 Oil and Gas Conservation Act which required drilling permits and records of well plugging. Regulation regarding oil and gas exploration efforts began in 1960 with the formation of the Kentucky Oil and Gas Conservation Commission and the Oil and Gas Division under the Kentucky Department for Natural Resources.

**Witness:** Marty Marchaterre



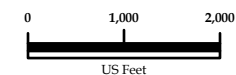
**COPPERHEAD**  
ENVIRONMENTAL CONSULTING

Prepared for:  
**Lost City  
Renewables LLC**

FIGURE RFI 1:  
Kentucky Geological Survey  
Gas Wells within the  
Lost City Solar Project Area,  
Muhlenberg County, Kentucky.

### Legend

- Gas Well - Plugged/Abandoned
- Project Area



Scale: 1 in = 2,000 ft

Prepared by :  
Copperhead Environmental Consulting, Inc.  
471 Main Street  
P.O. Box 73  
Paint Lick, Kentucky 40461

Drawn by:	TC	Date:	6/27/2025
Checked by:	MM	Revision:	03



Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet  
Projection: Lambert Conformal Conic  
Datum: North American 1983  
Sources: USDA, ESRI, USGS, CEG, KGS  
6/27/2025

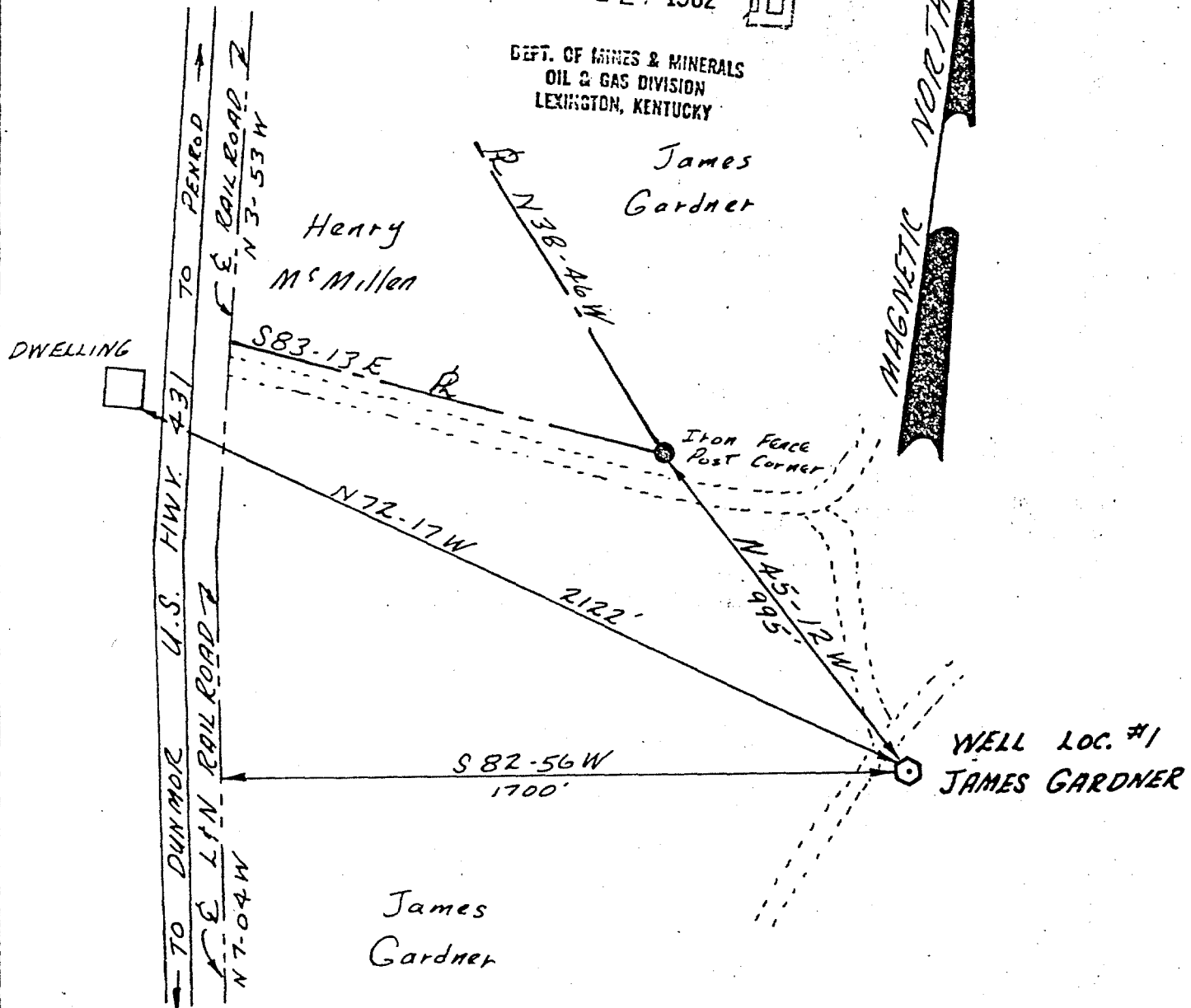


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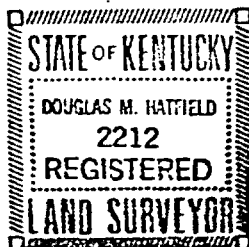
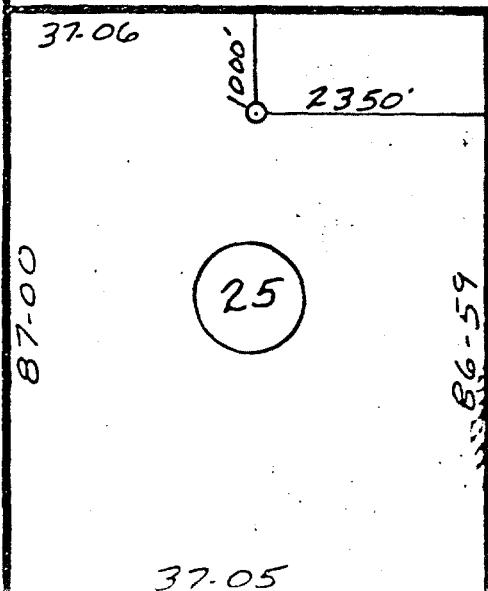
RECEIVED  
JUL 27 1982

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



PERMIT NO. 50242  
LOCATION \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
ADDED BY KENTUCKY GEOLOGICAL SURVEY PERSONNEL

TOPO DUNMOR  
CARTER COORD. 25-H-31  
SCALE: 1"=2000'



OPERATOR: JAMES E. SMITH  
FARM: JAMES GARDNER  
WELL #: 1 ELEVATION 548.07  
COUNTY: MUHLENBERG, KENTUCKY  
DATE: 4-23-82 SCALE: 1"=400'  
DOUGLAS M. HATFIELD  
GREENVILLE, KY.

I HEREBY CERTIFY THAT THIS SURVEY  
WAS MADE UNDER MY SUPERVISION &  
IS TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.

Douglas Hatfield  
R.L.S. # 2212  
John C. Bayler  
P.E. # 11151



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

RECEIVED  
SEP 26 1903

# WELL LOG AND COMPLETION REPORT

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

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

WELL IDENTIFICATION		Permit No. 50843		TYPE OF COMPLETION (check one)	
Operator James E. Smith		Dry Hole <input checked="" type="checkbox"/>		Shut-in or Producing?	
Farm Name James Gardner		Oil <input type="checkbox"/>			
Well No. 1		Gas <input type="checkbox"/>			
TYPE OPERATION (check one)		LOCATION		SERVICE WELL:	
Re-Open <input type="checkbox"/>		County Muhlenberg		Saltwater Disposal <input type="checkbox"/>	
New Well <input checked="" type="checkbox"/>		Carter Coordinates 25 H 31		Water Supply <input type="checkbox"/>	
Workover <input type="checkbox"/>		Footage from Section Lines: (section) (letter) (number)		Observation Well <input type="checkbox"/>	
Deepening <input type="checkbox"/>		1000' from N line 2350' from E line		Other	
		S W			
ELEVATION 548.7' (ground)		(D.F.) (K.B.)		INITIAL PRODUCTION	
TOTAL DEPTH				Natural NONE Date	
Driller's Log 1150' Geophysical Log NONE				After Treatment Date	
OPERATIONAL DATES				COMPLETION INTERVAL	
Date 8-9-82 Date Drilling Completed 8-11-82				Formation Name(s) Interval(s)	
Date Plugged 8-15-82 Date Placed in Operation				NONE	
(if dry hole)		(if producing, injection, etc.)			
Date Shut-in				(check applicable boxes)	
(if shut-in producer or other temporarily suspended operation)				In Open Hole Thru Perforation	
DRILLING METHOD		conventional-from to		WELL TREATMENT	
Cable Rotary Tools air		-from 0' to 1150' (Depths)		Shot NONE qts. Interval	
				Shot qts. Interval	
				Acid gals. Interval	
				Acid gals. Interval	
				Fracture gals. Interval	
				lbs/sand	
				Fracture gals. Interval	
				lbs/sand	
CONTRACTOR(S): James E. Smith				Casing Size Hole Size Depth Sks Cement Csg Pulled	
Address: P.O. Box 319				7" 8 3/4 300' 0 Yes	
Greenville, Kentucky 42345					
TYPE(S) OF GEOPHYSICAL LOGS RUN: (Electrical, Induction, sonic, gamma ray, neutron, density, etc.)					
NONE					

## OCCURRENCE OF OIL AND GAS

[illegible]

THE ABOVE INFORMATION IS COMPLETE AND CORRECT.

Date 9-22-83

Signed

Title

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 26 330 390 420 530 680  730 870 980	26 330 390 420 530 680 730  870 980 1150	Dirt Sand & Lime & Shale Lime & Sand Lime & Shale Shale & Sand Lime & Shale Jackson Sand (Shale & Lime in between) Paint Creek (Lime & Shale) Renault Lime McClosky Lime			

0024024003



## 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**

James E. Smith, P.O. Box 319, Greenville, Kentucky 42345

Name and address of Last Operator

SAME

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

NONE

Name and address of Coal Operator

---

Permit No. 50843, Elevation 548.7', County Muhlenberg

Carter Coordinate Location 25-H-31 1000' FNL X 2350' FEL

Lease Name            James Gardner                               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,                      Muhlenberg  
County of

SS:

0024024004



well operator and  
by registered mail  
esses.

RECEIVED  
AUG 29 1983  
DEPT. OF MINES & MINERAL  
INDUSTRIAL INVESTIGATION

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 8-15, 1982, record of which is listed below.

Plugged from	350'	to	295'	with	15 Sks.
Plugged from	35'	to	3'	with	12 Sks.
Plugged from	3'	to	0'	with	Dirt
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 \_\_\_\_\_, 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

Signature of Contractor responsible for the above plugging, or

Signature of Operator responsible for the above plugging

Sworn to and subscribed before me this 25th day of August 1983

Maqine Hamilton  
Notary Pub

Notary Public

My Commission expires:

My Commission Expires Feb. 22, 1986

55600

MUHLENSBURG COUNTY, KENTUCKY ( DUNMORE QUADRANGLE )

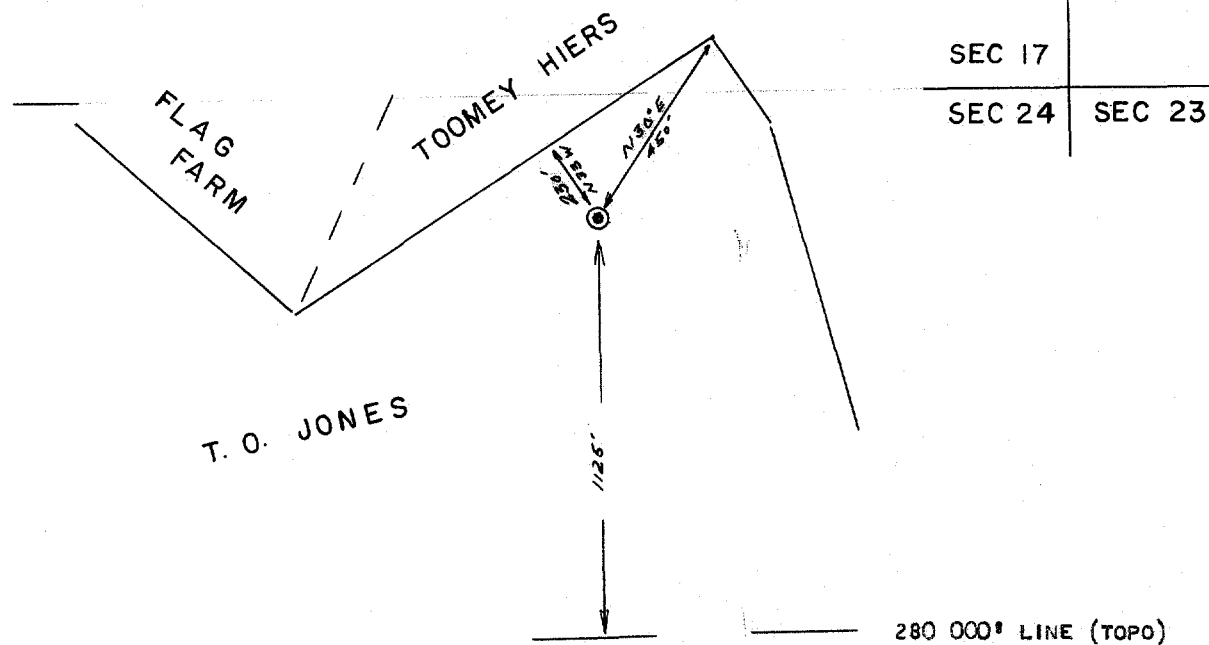
SECTION 24 - H -31

DR. A. J. CHROUSER \* I T.O. JONES  
ELEV. 458' TOPO (HAND LEVEL)

~~5750 FSL~~

5750 FSL

8460 FWL



SCALE : 1" = 500'

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

*William M. Lyon*  
REGISTERED ENGINEER



DATED THIS 5-25-62

2029989001



24-H-31

muhlenburg Co.

6544

Serial No. \_\_\_\_\_

State \_\_\_\_\_ Co. \_\_\_\_\_ Sec. 24 T. H. R. 31 Pool \_\_\_\_\_

Oper. Dr. A. J. Chrouser Elev. 458' DF 458 Gr. \_\_\_\_\_Farm J. O. Jones No. 1 TD. 530 PB. \_\_\_\_\_

LOCATION					TOP	DRILLER OR SAMPLE	ELEC.
Scout	<u>see permit</u>				Prov. Ls.		
Farm	<u>NW NE NE 24-H-31</u>				No. 11 Coal		
L.&S.	<u>3750 ESL X 8460 FWL</u>				No. 9 Coal		
					Mansfield		
					Penn. Sd.		
Comm.	<u>5/31/62</u> Comp. <u>6/14/62</u>				B. Penn.		
Remarks:	<u>sample 109 REG.</u>				Biehl		
CASING RECORD					Up. Kincaid		
12"	10"	8"	6"	5"	Lo. Kincaid		
		<u>21'</u>	<u>97'</u>		Degonia		
SHOT-ACID RECORD					Clare		
Date	Qt.-Gal.	From	To		Palestine		
					Up. Menard		
					Menard		
					Lo. Menard		
					Waltburg		
					"		
					Vienna		
					T. S. (Jett)		
					"		
					Up. G. D.		
					Lo. G. D.	<u>355</u>	
					Hd. (Jones)	<u>397-440</u>	
					"		
					Golconda	<u>440-496</u>	
					Jackson	<u>496-T.D.</u>	
					Barlow Ls.		
					Cypress		
					"		
					Up. Pt. Creek		
					Pt. Creek Sd.		
					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		

RECEIVED  
JUN 29 1962  
DEPT. OF MINES AND METALS  
LEXINGTON, KENTUCKY

I. P. D & A

DATE DRILLING RECORD

show gas @ 345'

6/14/62 T.D. in Jackson @ 530' w/ SALT WATER

D & A

Plugged 6/19/62

EC ED

JUL 1 1962

Kentucky Geological Survey

by  
John Greenfield  
Route Geologist

2029989002







# WELL RECORD

FARM: JONES, T. O.  
WELL NO.: 1 PERMIT NO.: \_\_\_\_\_  
OPERATOR: Dr. A. J. Choruser  
ACRES: \_\_\_\_\_  
ELEVATION: 458  
COMMENCED: 5-31-62  
COMPLETED: 6-14-62  
TOTAL DEPTH: 530  
CONTRACTOR: \_\_\_\_\_

LOCATION:  
Carter Coordinate: S 24 T H R 31  
County: MUHLENBERG  
Other: 5750 FSL x 8460 FWL

## CASING AND TUBING RECORD:

21' of 8"  
97' of 6"

## PRODUCTION RECORD:

D&A  
T. D. in Jackson @ 530' w/ salt water  
Plugged 6/18/62

From	To	Formation	From	To	Formation
80	96	Sand, water			
96	105	Shale			
105	125	Shale and limestone			
125	130	Limestone with shale			
130	135	Limestone			
135	150	Shale			
150	160	Limestone			
160	175	Limestone with shale			
175	200	Limestone			
200	215	Shale			
215	220	Limestone			
220	240	Shale			
240	245	Limestone			
245	260	Shale			
260	285	Limestone			
285	290	Shale			
290	295	Shale			
295	310	Limestone			
310	322	Shale			
322	350	Limestone			
350	355	Shale			
355	397	Limestone			
397	420	Gray shale with streaks red			
420	435	Red beds			
435	440	Gray shale			
440	496	Limestone ( sandy 450-60)			
496	521	Gray-green shale with streaks red			
521	531	Sand, salt water up 100 in hole			
		355 Lo. G. D.			
		397-440 Hd. (Jones)			
		440-496 Golconda			
		496- TD Jackson			
		Tops by Roy E. Greenfield -Geologist			

2029989004



FILMED ☒

County Muhlenberg State Ky

Sec. 24 T. H R. 31

Loc. 5750 SL, 8460 WL of Quad

Opr. Dr. Alfred J. Chrouser

Farm #1 T. O. Jones

I.P. D&A Date 8/31/62

T.D. 531 M.L. ☒

Fm. Tested Jack S.S. \_\_\_\_\_

Elec. Log \_\_\_\_\_ Core Chips \_\_\_\_\_

Samples on File \_\_\_\_\_ Box No. \_\_\_\_\_

SUB-SEA DATA

SAND RECORD



Serial No. 569State Co. Mult. Sec. 16 T H R 31 PoolOper. Z. N. Sloan Elev.DF. 405 Gr. summitFarm M. McElwain No. 1TD 50 PB.

N.T. (Kelly)

## LOCATION

Scout 11700 S 2550 W B  
Farm  
L&S.Comm. 3-12-56 Comp. 4-6-56Remarks: Wildcat

## CASING RECORD

12"	10"	8"	6"	5"
		<u>145</u>		

## SHOT-ACID RECORD

Date	Qt.-Gal.	From	To

I. P.

## DATE

## DRILLING RECORD

<u>3-11-56</u>	<u>160</u>
<u>3-21-56</u>	<u>316</u>
<u>3-28-56</u>	<u>554</u>
<u>4-4-56</u>	<u>50</u>

TOP	OR SAMPLE	ELEC.
Prov. Ls.		
No. 11 Coal		
No. 9 Coal		
Mansfield		
Penn. Sd.		
B. Penn.		
Biehl		
Up. Kincaid		
Lo. Kincaid		
Degonia		
Clore		
Palestine		
Up. Menard		
Menard		
Lo. Menard		
Waltburg		
"		
Vienna	<u>-298</u>	
T. S. (Jett)	<u>500 307-35</u>	
"		
Up. G. D.	<u>335-60</u>	
Lo. G. D.	<u>269-98 372-407</u>	
Hd. (Jones)	<u>500 307-25 500 437-41</u>	
"	<u>NS 441-460</u>	
Golconda	<u>325-60 460-510</u>	
Jackson	<u>NS 25-35 500 542-49 xw 549-60</u>	
Barlow Ls.	<u>590-95</u>	
Cypress		
"		
Up. Pt. Creek	<u>625-66</u>	
Pt. Creek Sd.		
Lo. Pt. Creek	<u>668-903</u>	
Beth-Ben		
Up. Renault	<u>719-65</u>	
Renault	<u>-804</u>	
Aux Vases ? p.	<u>804-12 col.</u>	
"		
St. Gen.	<u>818-</u>	
O'hara-Rosi	<u>NS 819-27 col.</u>	
Fredonia		
McClosky	<u>NS 845-80 col.</u>	
"		
"		
St. Louis		
Chatt		
Dev. Ls.		
Silurian		
Trenton		
St. Peter		

2030066002





Muhlenberg County, Kentucky  
Z. N. Sloan No. 1  
11,700' SL x 2,550' WL Quad.  
Comm. 3-12-1956, Comp. 4-16-1956

Section 16-H-31 -- Wildcat  
M. McElwain  
Elev. 405' "Topo"  
DRY AND ABANDONED

8" - 98', reset 145'      7" - 578'      No samples to 315'

325 sand, gray to brown, coarse, show dead oil  
335 sand, gray, fine grained, no show  
352 lime, tan hard, oolitic, dark centers  
362 lime, gray, crystalline, dolomitic  
377 shale, gray  
391 lime, crystalline to coarse grained, crinoidal at base  
407 lime, light gray, crystalline to fine grained, dolomitic  
434 shale, gray  
441 sand, coarse, gray to brown, stain, show dead oil  
447 sand, same, slight stain, shaly  
460 sand, gray  
467 lime, tan, coarsely crystalline  
480 lime, gray, coarse grained, shaly  
510 lime, gray, crystalline to fine grained, dolomitic, cherty at base  
525 shale, gray  
535 sand, gray, no show  
542 shale, gray, sandy, green  
549 sand, gray, slight stain, shaly  
560 sand, white, coarse, water  
575 shale, gray, sandy  
590 shale, gray; sand, green; trace limo at 590'  
625 shale, red to green  
630 lime, brown, dense, slightly oolitic  
635 lime, brown, fine grained, dolomitic  
640 lime, gray to brown, fine grained, dolomitic  
655 lime, gray, dense to fine grained, dolomitic  
661 lime, same, slightly oolitic  
667 lime, gray, oolitic, dolomitic, no show  
671 lime, gray, coarse grained, shaly  
703 lime, brown, very oolitic, dark centers, dense at base  
719 shale, gray to green, pyritic  
720 lime, brown, slightly oolitic  
740 lime, gray to white, dense, dolomitic  
744 shale, gray  
745 lime, brown to gray, crystalline  
765 lime, white, fine grained, tabular gyp.  
780 lime, tan, dense  
785 lime, white, dense  
798 lime, gray to brown, fine grained  
802 lime, white, dense, slightly oolitic  
804 lime, brown, dense  
812 lime, white, oolitic, dolomitic, tight, no show  
816 lime, brown, dense, shaly, green  
818 lime, white, oolitic, tight, dolomitic, no show  
827 lime, tan to brown, oolitic to dense, dolomitic  
840 lime, gray, very small oolites  
845 lime, brown to gray, dense to oolitic  
850 lime, white, tight, oolitic, dolomitic, no show

850 TOTAL DEPTH

2030066003



Kentucky  
Muhlenberg

Z N Sloan  
#1 M McElwain

16-H-31  
11,700'SL  
2550'WL Q  
Elev 405 topo

D&A

Comm 3-12-56  
Comp 4-16-56

TD 850

E-log -----

D-log -----

S-log -----

*Ly. set. tick.*

X-8069

(11-44)

KENTUCKY

MAGNOLIA PETROLEUM CO.

Map No. ✓

MUHLENBURG County,  
 Sec. 16 Twp. H-31 Rge. Elv. 405  
 Operator Z. N. Sloan  
 Well No. 1 Farm M. McElwain  
 Description 11,700 FSL 2550 FWL Qd.  
 Wildcat

Perf. Wind.  
 Sec. Dow.



## CASING RECORD

## ACID RECORD

Size	Set	Gallons	Depth
8	98		

## SHOT RECORD

	Quarts	Depth
TD	850	
PB		
IP	D&A	

Date

DRILLING DATA 3-12-56

MAR 15 '56 Drlg. 160' MAR 22 '56 316  
 MAR 29 1956 554  
 APR 5 1956 500 560  
 APR 1 1956 APR 19 1956

Drillers ✓  
 Sample X Jeep Schlum.

Bieh  
 UKin  
 LKin

Deg  
 Cl ss  
 Pal ss  
 UMen  
 LMen  
 Walt

" ss

Vi -298

T S 500 307-35

" ss

UGd 335-60

LGd 267-48 372-407

Hrd 500 437-44

" ss

Gol 400-510

BCol 335-62

Cyp 525-60

" ss 590-95

P C 625-66

LP 668-703

Bethel

Ben ss

URen 719-65

LRen -804

A V 804-12

" ss

StG 818

L O 818-27

Ros

Frd

Mc 845-250

"

Stl

Sal

War

Keo

La

Chat

Dev

" pay

Maq

Tr

Kmwk

850

REASON FOR DRILLING  
FIELD WELL—NAME  
EXPLORATORY WELL (A-3)Wildcat  
SCOUT SHEETCOUNTY Muhlenberg  
STATE Kentucky

ELEVATION 405 Survey

DATE STARTED 3-12-56

OPERATOR Z N Sloan

DATE COMPLETED

FARM M McElwain

WELL NO. 1

T.D. 8.50

SEC. 16 QUAD. H

COORD. 31

P.B.

LOCATION FROM LINES 1170 FSL 2550 FWL of Sec

SCHL. REC'D

(Cable tools)

TOPS BY

I. P. FIRST 24 HOURS

WAS ELECT. LOG RUN?

## CASING

## CASING

SIZE	SET	SACKS	SIZE	SET	SACKS
3	145				

SAMPLE	SCHL.	SAMPLE	SCHL.	SAMPLE	SCHL.
PA.		HDS 550	307-25	MCCL.	845-50 115
			500 437-41		
		GOL.	335-60 466-510		
		JACK.	525-35 (520-542-449)		
U. KINK.		BAR.	596-95	SAL.	
L. KINK.		CYP.			
DEG.				WAR.	
CL.		U. P. C.	425-66	OSG.	
PAL.		P. C. SD.		RF.	
U. MEN.		L. P. C.	468-703	CHAT.	
M. MEN.		BETH.		DEV.	
L. MEN.		REN.	719-65		
WALT.		L. REN.	804		
		A. Y.		SIL.	
VI.	298	LS	864-12 115		
T. 500	307-35	STE. G.	818	ORD.	
		L. O'H.	815-27	TREN.	
U. G. D.	335-60	ROSI.			
L. G. D.	267-98 372-407	FRED.		ST. P.	

DATE

DRILLING DATA

3-15-56

Drlg 160;

3-22-56

8316

MAR 29 1956

8554

APR 1 5 1956

SIL

APR 19 1956

FILMED

County Muhlenberg State W. Va.

Sec. 16 T. H R. 31

Loc. 11,700 FSL, 2550 FWL of Qd.

Opr. Z. N. Sloan

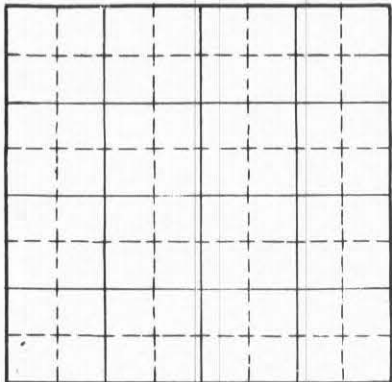
Farm #1 M. McElwain

I. P. D & A

T. D. 850

Fm. Tested Mc.

Elec. Log \_\_\_\_\_



SCALE 2" = 1 MILE

Samples on File \_\_\_\_\_ Box No. \_\_\_\_\_

ML

SAND RECORD

Deg.		
Pal.		
Walt.		
T. S.	28'	5do
Hard.		
Jack.	28'(2)	50 bot. sd
Cyp.		
P. C.		
Beth.	NE	
A. V.		



## SUN OIL COMPANY

COUNTY

mullensburg

STATE

K-37

Operator

J. M. Sloan

Sec.

Typ.

Range. 31

Farm

m. mc Elwain

Well #

1

L. &amp; S. Loc.

FNL

FSL

Field

WC

L. &amp; S. Elevation

FEL

FWL

## INITIAL PRODUCTION

Date APR 18 1956

Pump

Flow

Gas

T.D.

L

D 850

D.D.

P.B.

Form

Pay

Spud

3

12

56

Date

Progress

3/14

160

3/21

316

3/28

554

4/4

50

W.F.

Prov.

Coal

Pa. Sd.

U. Kin.

L. Kin.

Degonia

Clore Sd.

Pal.

Menard.

L. Menard

Walt. Sd.

Vienna.

Tar Sp. Sd.

UG

L. Glen D.

Hdbg. Sd.

Golconda

Jack. Sd.

Barlow

Cypress

U. Pcr. Is.

Pcr. Sd.

L. Pcr. Is.

Bethel

Renault

L. Renault

Aux Vases

Ste. Gen.

L. O'Hara

Rosiclare

Fredonia

McClosky

St. Louis

Salem

Warsaw

Osage

La. Is.

Chatt. Sh.

Devonian

Silurian

Maquoketa

Trenton

St. Peter

## SAMPLE TOPS

SCH.

JEEP

TOPS

OF

Scout Loc.

Spot

FNL

FSL

FEL

FWL

OF

Elev.

E. L. Chkd.

5100' SE K-2561

(W.G. Horton)

60" CASING RECORD

8 at

145

at

at

at

at

at

TEMPORARY CASING

Sec. at

Sec. at

Sec. at

ACID RECORD

gals.

gals.

gals.

gals.

gals.

gals.

gals.

gals.

gals.

gals.

gals.

gals.

gals.

PERFORATION RECORD

at

at

at

at

at

at

SHOT RECORD

qts. at

qts. at

qts. at

qts. at

qts. at

Muhlenberg County, Kentucky

Sam Sharp No. 1

2,400' WL x 2,350' SL Sec.

Section 17-H-31 - Wildcat

C. McPherson

DRY AND ABANDONED

8" - 257'?	247 shale	478 shale
6-5/8" - 421'	255 Red rock	485 lime
	290 slate	488 sand, lime
0-22 mud	333 lime	490 lime
37 shale	346 shale	
43 lime	349 oil sand	500 Total Depth.
54 shale	364 shale	
61 lime, shale	372 sand	
92 shale	382 shale	
98 lime	392 sand	
110 shale	415 Jones sand	
127 brown lime	417 sand, lime	
160 shale	423 " "	
193 lime	427 Red rock	
203 slate	438 shale	
206 lime	464 lime	
217 slate	467 shale	
242 lime	471 lime, sand	

2030166001



Kentucky  
Muhlenberg

S Sharp  
#1 G McPherson

17-H-31  
2400'WL  
2350'SL Sec  
Elev

Comm 12-31-47  
Comp 3-10-48

Serial No. 12,171

TD 500



Farm G. M. Pearson No. 1 TD. 500 PB.

St. Peter

KENTUCKY

X-6069-10-45

(11-44)

MAGNOLIA PETROLEUM CO.

Map No. 12

MUHLENBERG County,  
 Sec. 17 Twp. H-31 Rge. Elv.  
 Operator Sam Sharp  
 Well No. 1 Farm C. McPherson  
 Description 2400' FWL & 2350' FSL Sec.  
 Wildcat

Perf. Wind.  
 Sec. Dow.



Drillers  
 Sample  
 Jeep  
 Schlum.

Bieh  
 UKin  
 LKin  
 Deg  
 Cl ss  
 Pal ss  
 UMen 160  
 LMen  
 Walt

" ss  
 Vi 290  
 T S

" ss 346 550 ss  
 UGd 415  
 LGd  
 Hrd

" ss 244 550 ss

Gol

BGol

Cyp

" ss

P C

" ss

Bethel

Ben ss

URen

LRen

A V

" ss

StG

L O

Ros

Frd

Mc

"

Stl

Sal

War

Keo

La

Chat

Dev

" pay

Maq

Tr

Kmwk

## CASING RECORD

## ACID RECORD

Size	Set	Gallons	Depth
8 257			
6 421			

## SHOT RECORD

	Quarts	Depth
TD 500		
PB		
IP 222		

Date

DRILLING DATA 12-31-47

JAN 7 '48 Drlg. 80'

JAN 14 '48 2285'

JAN 21 '48 2330'

JAN 28 '48 50 352'

FEB 4 '48 ✓

FEB 11 '48 ✓

FEB 18 '48

FEB 25 '48

MAR 3 '48

MAR 10 '48

4417'

50 430

4460'



## WELL RECORD

FARM: McPherson, G.  
WELL NO.: 1  
OPERATOR: S. Sharp  
ACRES:  
ELEVATION:  
COMMENCED: 12/31/47  
COMPLETED: 3/10/48  
TOTAL DEPTH: 500'  
CONTRACTOR:

LOCATION: \_\_\_\_\_  
Carter Coordinate: S 17 T H R 31  
County: Muhlenberg  
Other: 2400 FW 2350 FS of Sec.  
Serial No. 12,171 - Wildcat

CASING AND TUBING RECORD:

8" casing at 257'  
6 5/8" casing at 421'

---

PRODUCTION RECORD:

D &amp; A

From	To	Formation	From	To	Formation
		<u>DRILLER'S TOPS</u>			
		Upper Menard 160			
		Vienna 290			
		T. S. (Jett) sso 346			
		U. Glen Dean 415			

No El

Sec. 17 T. H R. 31

Loc. 2350' FSL, 2400' FWL of Qd.

Opr. S. Sharp

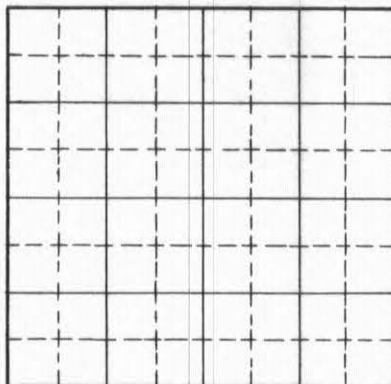
Farm #1 McPherson

I. P. \_\_\_\_\_ D & A

T. D. \_\_\_\_\_ 5009

Fm. Tested

Elec. Log



SCALE 2" = 1 MILE

Samples on File \_\_\_\_\_ Box No. \_\_\_\_\_

M.L. INSIDE

Back 675

## SUN OIL COMPANY

COUNTY MUHLENBURG

STATE KENTUCKY

Operator S. SHARP

Sec. 17 Twp. H Rnge. 31

Farm McPHERSON

Well # 1

Spot

FNL 2350

FSL

Field WILDCAT

L. &amp; S. Elevation

FEL 2400

FWL

## INITIAL PRODUCTION

## SAMPLE TOPS

SCH.

JEEP

TOPS

OF Qd.

Date MAR 9 1948

S. C.

Pump

Flow

W. F.

Prov.

Coal

ELEC. LOG CHECKED

Gas

Pa. Sd.

T. D.

500

Mans.

D. D.

Bpt.

P. B.

Biehl

U. Kin.

Form

Pay

L. Kin.

Degonia

Clore Ls.

Clore Sd.

Pal.

U. Men.

Men.

160

L. Men.

Walt. Sd.

Vienna

290

Tar Sp. Sd.

346 550

U. Glen D.

L. Glen D.

415

Hdbg. Sd.

346

550

Golc.

Jack. Sd.

Barlow

Cypress

## CASING RECORD

8 at 257

6 at 421

at

at

at

at

at

at

## TEMPORARY CASING

Sec. at

Sec. at

Sec. at

Sec. at

Sec. at

## ACID RECORD

gals.

gals.

gals.

gals.

## PERFORATION RECORD

at

at

at

at

at

at

## SHOT RECORD

qts.-at

qts.-at

qts.-at

qts.-at

qts.-at

qts.-at

gals.

gals.

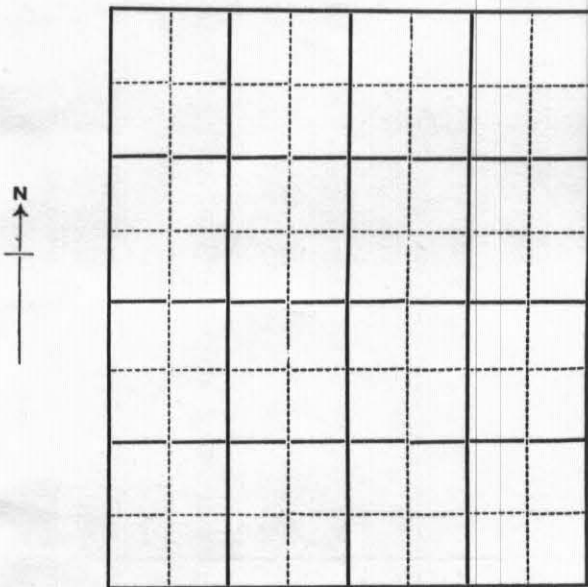
gals.

MAP NO. 48 SEC. 17 LETTER H NO. 31

WELL NO. 1 C. McPherson FARM

Sam Sharp COMPANY

COUNTY Muhlenberg STATE Kentucky



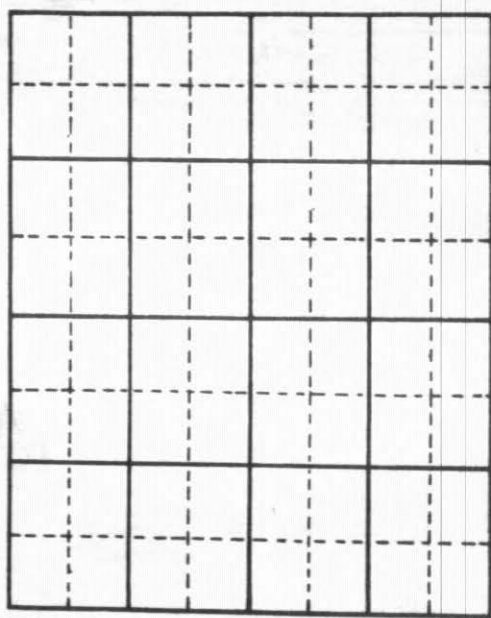
- ☐ OIL WELL
- ☐ GAS WELL
- ☐ CLEANED OUT AND DRILLED DEEPER
- ☒ PLUGGED AT 500 FEET
- ☐ GAS WELL PUT TO PUMPING
- ☐ LOCATION ABANDONED

MAP NO. 48 SEC. 17 LETTER H NO. 31

COMPANY SAM SHARP

WELL NO. 1 C. McPHERSON FARM

COUNTY MUHLLENBERG STATE KENTUCKY



NO  
SPOT

FIRST REPORT

2400 w R  
2350 S L  
sec

**WILDCAT**

DRILLING AND REMARKS

180

2400 w R  
2350 S L sec

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.

TOTAL DEPTH \_\_\_\_\_

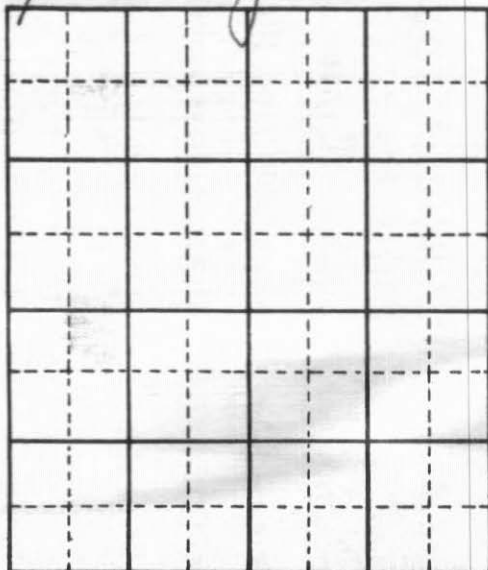
DATE JAN 7 1948 19 \_\_\_\_\_

V. S. WALKER, JR. SCOUT

SCOUT TICKET



MAP NO. 48 SEC. 17 LETTER 18 NO. 31  
COMPANY. Sam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY



DRILLING AND REMARKS

1275

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED 8 IN. 257 FT.

TOTAL DEPTH \_\_\_\_\_

DATE JAN 14 1948 19 V. S. WALKER, JR. SCOUT

MAP NO. 48 SEC. 17 LETTER H NO. 31  
COMPANY Sam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Mullenberg STATE KENTUCKY



No  
Spot

DRILLING AND REMARKS

/ 330

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.

TOTAL DEPTH \_\_\_\_\_

DATE JAN 21 1948

19

V. S. WALKER, JR.

SCOUT

MAP NO. 48 SEC. 17 LETTER H NO. 31  
COMPANY Sam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY



DRILLING AND REMARKS

SD-352

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.

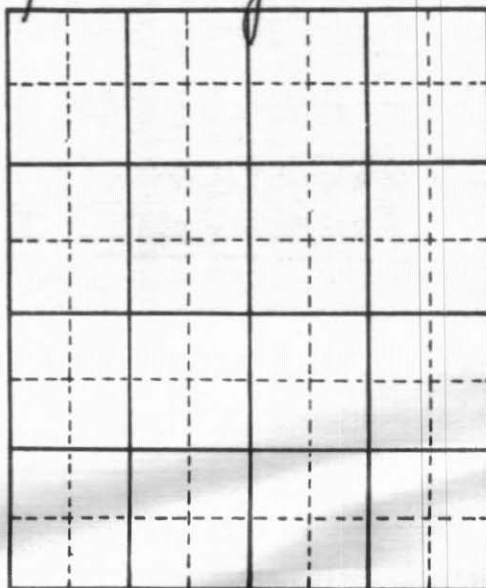
TOTAL DEPTH \_\_\_\_\_

DATE JAN 28 1948 19 \_\_\_\_\_ V. S. WALKER, JR. SCOUT

SCOUT TICKET

GULF T 139-A 4-46

MAP NO. 48 SEC. 17 LETTER H NO. 31  
COMPANY Sam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY



*No  
pat*

DRILLING AND REMARKS

*SD-352*

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.

TOTAL DEPTH \_\_\_\_\_

DATE FEB 4 1948 19 V. S. WALKER, JR. SCOUT

MAP NO. 48 SEC. 17 LETTER 18 NO. 31

COMPANY Sam Sharp

WELL NO. 1 C. McPherson FARM

COUNTY Mullenberg STATE KENTUCKY



DRILLING AND REMARKS

SD-352

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.

TOTAL DEPTH \_\_\_\_\_

DATE FEB 11 1948 19 \_\_\_\_\_ V. S. WALKER, JR. \_\_\_\_\_ SCOUT

SCOUT TICKET

GULF T 139-A 4-46

MAP NO. 48 SEC. 17 LETTER 14 NO. 31  
COMPANY Sam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY



No  
Spot

DRILLING AND REMARKS

HARD-346

D-417

LOCATION

RIG UP

CASED IN. FT.

TOTAL DEPTH

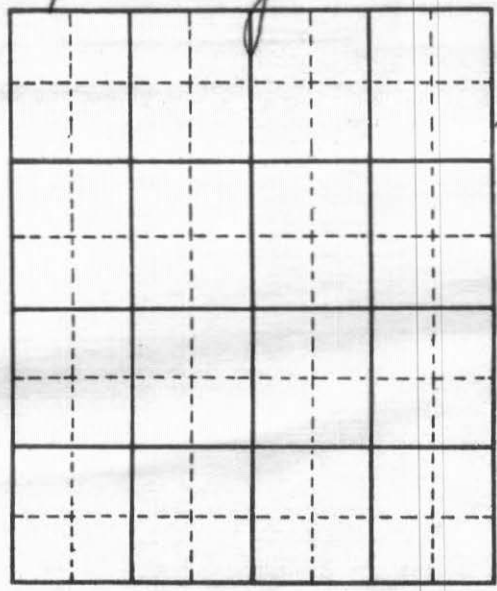
DATE FEB 18 1948 19 V. S. WALKER, JR. SCOUT

SCOUT TICKET

GULF T 139-A 4-46



MAP NO. 48 SEC. 17 LETTER H NO 31  
COMPANY Sam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY



No  
Spot

DRILLING AND REMARKS

SDR-430

LOCATION \_\_\_\_\_

RIG UP \_\_\_\_\_

CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.

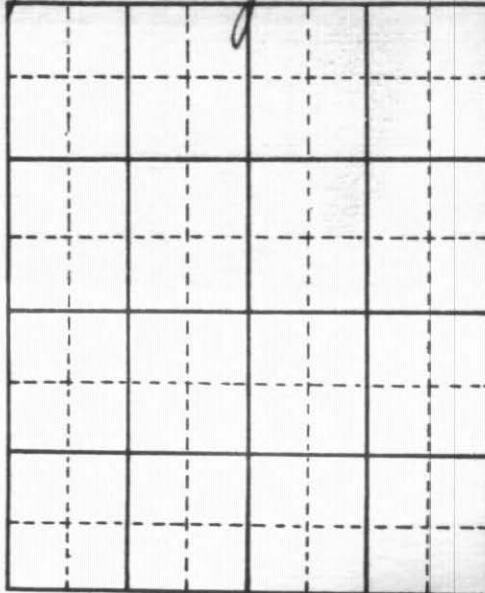
TOTAL DEPTH \_\_\_\_\_

DATE FEB 25 1948 19 V. S. WALKER, JR. SCOUT

SCOUT TICKET

GULFT 139-A 4-46

MAP NO. 48 SEC. 17 LETTER H NO. 31  
COMPANY Lam Sharp  
WELL NO. 1 C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY



No  
Spot

DRILLING AND REMARKS

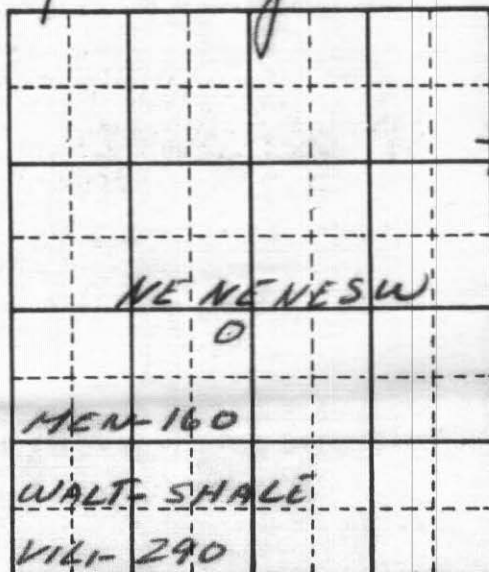
1 460

LOCATION \_\_\_\_\_  
RIG UP \_\_\_\_\_  
CASED \_\_\_\_\_ IN. \_\_\_\_\_ FT.  
TOTAL DEPTH \_\_\_\_\_

DATE MAR 3 1948 19 V. S. WALKER, JR. SCOUT

MAP NO. 48 SEC. 17 LETTER H NO. 31  
COMPANY Sam Sharp  
WELL NO. C. McPherson FARM  
COUNTY Muhlenberg STATE KENTUCKY

N  
↑



DRILLING AND REMARKS

6D-415

D & A

201004

LOCATION

RIG UP

CASED 6 5/8 IN. 421 FT.

TOTAL DEPTH 500

DATE MAR 10 1949 19 V. S. WALKER, JR. SCOUT

SCOUT TICKET

GULF T 139-A 4-48

Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

**Siting Board Post-Hearing RFI 2:**

Refer to the Application, Appendix G, Traffic Impact Study.

a. Confirm whether the traffic impact study has accounted for the traffic impact of timber removal.

b. If the traffic impact study did not account for timber removal, provide supplemental estimates on what impact timber removal will have on the project area's traffic.

**Response:** a) The traffic impact study did not account for the traffic impact of tree removal.

b) Local timber buyers have visited the project site to provide a high-level assessment of the available timber. The forested acreage was heavily cut in the mid to late 1990s. Presently, the forest stand consists primarily of pulp wood and needs another 10-15 years to mature before more harvestable saw timber would be available. Based on preliminary discussions with several timber/logging companies, the Applicant estimates that the following traffic impacts would occur:

- **Equipment Mobilization.** Initially, the timber crews would mobilize equipment, such as tractor trailer log trucks, 2-3 track cutters, 3-4 skidders, 1-2 service trucks, 1-2 dozers, and 2-3 excavator/log loaders. This equipment will enter the Project Area via the main entrance off KY 949 and remain on site until timber removal is completed.
- **Daily Worker Vehicles.** For 6-9 months (the estimated length of timber-clearing efforts), approximately 10 workers would travel to and from the Project Area daily using personal vehicles. These workers also would use the main entrance off KY 949.
- **Logging Trucks.** An estimated 1,220 tractor trailer loads of pulp wood would leave the site intermittently during the 6-9 months. The average daily truck traffic would be an

Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

estimated 5-8 loaded trucks leaving the site and a similar number of empty trucks returning through the main entrance off KY 949.

- **Equipment Removal.** At the conclusion of the timber harvest, equipment would be demobilized from the site using the main entrance off KY 949.

**Witness:** Marty Marchaterre

Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

**Siting Board Post-Hearing RFI 3:**

Refer to the Application, Attachment G, Economic Analysis.

- a. Confirm whether the economic analysis accounted for the loss of timber acreage.
- b. If the economic analysis did not account for the loss of timber acreage, provide supplemental estimates on the economic impact of removing timber from the project site.

**Response:** a) The economic analysis did not account for the loss of timber acreage.

b) As part of the Lost City Renewables project in Muhlenberg County, the Applicant proposes to remove the timber from approximately 600 acres at the site. The economic analysis examined the loss of agricultural activity on about 350 acres at the site, but did not evaluate the local economic impact of timber sales. The Applicant has contacted several local logging companies to make a preliminary assessment of the value of the timber at the site, and the likely scale of the clearing operation. I have used that information to make a rough estimate of the net local economic impact, particularly due to the loss of mature timber when the solar farm is anticipated to be decommissioned. Although this analysis indicates that there would be a slight negative local economic impact of lost timber, this impact is quite small compared to the relatively large net benefits of the project, including the estimated net labor income of \$83.8 million.

**Assumptions and Logic**

- 1. An estimated 609 forested acres are anticipated to be cleared for the Project.

Revenues from the timber sales would flow to the Applicant in year one. Preliminary estimates at the site suggest revenues of approximately \$1,000 per acre to log and clear the area. The logging companies expect to have five to ten workers on the site daily for six to nine months, with an additional 5-8 semi-truck drivers. Thus, approximately 12.5 workers are expected to be on the job for up to nine months. Assuming 8 months of

Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

logging, this works out to 11 job-years. Our IMPLAN model of the County estimates that jobs in the commercial logging industry pay on average \$58,500 per year, for total labor income of \$633,000 during the initial construction phase.

2. The presence of the operating solar project would prevent a subsequent timber harvest in 30-40 years (after which timber could be grown again should the solar farm be decommissioned). So, using current values, that would represent over \$600,000 in lost revenues to the landowners at that time.

3. The local employment related to initial timber harvesting is presumably already captured in the estimate of construction employment (total of 600 jobs), as the clearing of land is a significant component of construction.

4. However, assuming the land would be logged next in 30-40 years if not for the solar project, there would be an associated loss in local employment and earnings at that time. I used our IMPLAN model of the County to predict the spinoff impacts of this lost economic activity. The logging operation would lead to a total local (negative) economic impact of 13 jobs in the County, with a loss of labor income equal to \$723,000.

**Witness:** Paul Coomes



Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

**Siting Board Post-Hearing RFI 4:**

Refer to Lost City Renewables' response to First Request, Item 33. Explain whether Lost City Renewables has had any communication with Pennyrile Rural Electric Cooperative Corporation regarding the 69kV transmission line that intersects the project.

**Response:** On June 23, 2025, the Applicant reached out to the Pennyrile Rural Electric Cooperative Corporation (PRECC) Engineering Supervisor concerning initiating discussion about an access permit/crossing agreement. The Applicant would like to access the Project Area west of the 69kV transmission line, east of US 431, and north of Mason-Poyner Road to install solar panels and an inverter (see Post-Hearing RFI-4 Transmission Line Easement Figure). An access agreement to cross the easement during construction and maintenance during operation would be necessary.

The PRECC Engineering Supervisor checked into the transmission line and determined that while PRECC owns the substation off Forgy Mill Road, TVA owns the 69kV transmission line crossing the Project Area.

The Applicant is in regular communication with TVA concerning the Project, a Power Purchase Agreement, and potential TVA upgrades to the Lost City Substation and its 161kV transmission line. The 69kV transmission line has not been the focus of TVA discussions, as the Project was not anticipated to tie into that transmission line.

The Applicant is aware of TVA's transmission system easement use/access application requirements including guidelines and restrictions for crossing a TVA easement.

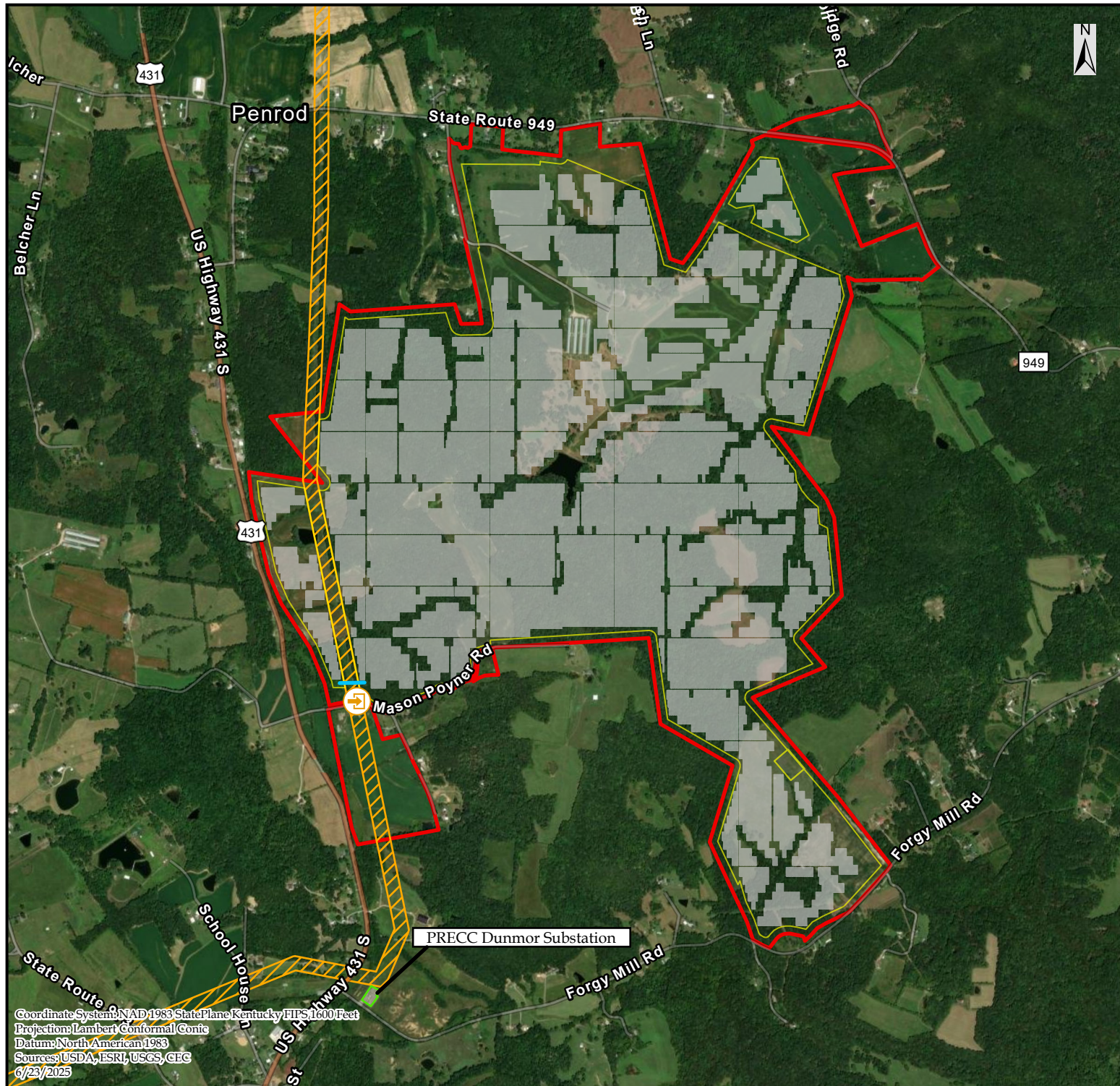
(<https://www.tva.com/energy/transmission/right-of-way-maintenance/transmission-system-right-of-way-easements>). The construction and maintenance access road would cross under a transmission line span, be spaced more than 25 feet from a transmission structure (e.g., pole, guy

Case No. 2024-00406  
Lost City Renewables LLC  
Response to Siting Board Post-Hearing Request for Information

wire, or guy wire anchor), and not affect ground clearance to transmission line conductors (wires). A grading plan would need TVA review. Concerning the crossing, the Applicant will fill out and submit the online TVA Application form for the use of TVA easements. The Applicant anticipates that an agreement to cross the TVA easement would take approximately 45-90 days for TVA review.

**Witness:** Marty Marchaterre





**COPPERHEAD**  
ENVIRONMENTAL CONSULTING








Prepared for:

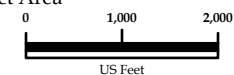
## **Lost City Renewables LLC**

FIGURE RFI 4:

TVA Transmission Line Easement  
for the Lost City Solar Project,  
Muhlenberg County, Kentucky.

### Legend

-  Construction and Maintenance Access
-  Fence
-  Solar Array
-  TVA Easement Crossing
-  TVA Transmission Line 69kV - 200 ft Easement
-  PRECC Dunmor Substation
-  Project Area



Scale: 1 in = 2,000 ft

Prepared by :

Copperhead Environmental Consulting, Inc.  
471 Main Street  
P.O. Box 73  
Paint Lick, Kentucky 40461

Drawn by:	TC	Date:	6/23/2025
Checked by:	MM	Revision:	04



Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet  
Projection: Lambert Conformal Conic  
Datum: North American 1983  
Sources: USDA, ESRI, USGS, CFC  
6/23/2025