Request No. 1:

Explain how Starfire plans to ensure its contractors hire local workers. Provide:

a. Contract language that will be used to ensure local hiring, if available; and

b. Details on any local programs that will be implemented to train local workers.

Response:

a. The Project has yet to execute contracts with an EPC company and thus contract language is currently unavailable. However, the Project will seek bids from at least three EPC companies. The scope of work, which will be delineated during negotiations between the EPC and Starfire, will include contract provisions to enhance local hiring, including a requirement that the EPC host a job fair to prioritize local labor force hiring. Local outreach for this job fair will be coordinated with some or all of the following: Hazard Community & Technical College, Perry, Knott, and Breathitt County departments, local mining and reclamation companies, and community foundations with which Starfire has developed relationships.

b. The Project is currently coordinating with existing local workforce programs that have been used in similar projects in eastern Kentucky. Local community and technical college(s) will be invited to participate in the job fair to enroll job seekers in appropriate training programs such as OSHA certification, electrician apprenticeships, or similar training and certification programs.

Responding Witness: David Gil

Request No. 2:

Provide information concerning each natural gas pipeline and well within the project boundary, including owner name and pipe diameter. Provide any communication between Starfire and each of the natural gas pipeline and well owners.

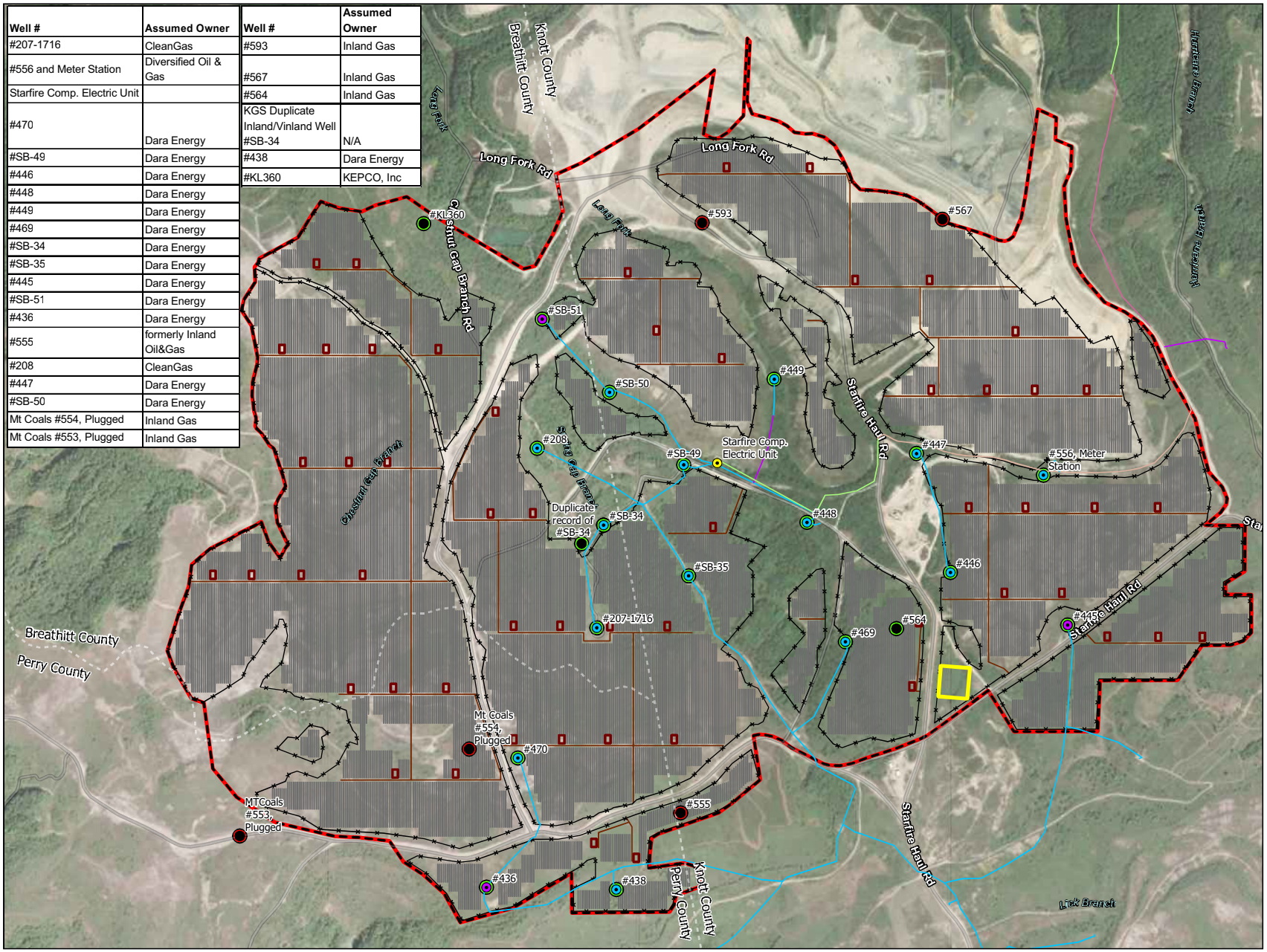
Response:

Please find the revised site map titled "Item 2: Oil & Gas Wells" attached, which includes the surveyed pipelines, pipeline diameters, and pipeline owner names. The Project has not had further communications with gas pipeline and well owners since those provided in RFI 2-6.

Responding Witness: Annie Winter

Well #	Assumed Owner
#207-1716	CleanGas
#556 and Meter Station	Diversified Oil & Gas
Starfire Comp. Electric Unit	
#470	Dara Energy
#SB-49	Dara Energy
#446	Dara Energy
#448	Dara Energy
#449	Dara Energy
#469	Dara Energy
#SB-34	Dara Energy
#SB-35	Dara Energy
#445	Dara Energy
#SB-51	Dara Energy
#436	Dara Energy
#555	formerly Inland Oil&Gas
#208	CleanGas
#447	Dara Energy
#SB-50	Dara Energy
Mt Coals #554, Plugged	Inland Gas
Mt Coals #553, Plugged	Inland Gas

Well #	Assumed Owner
#593	Inland Gas
#567	Inland Gas
#564	Inland Gas
KGS Duplicate Inland/Vinland Well #SB-34	N/A
#438	Dara Energy
#KL360	KEPCO, Inc



0 2,100 4,200 US Feet

Starfire Solar Project
Knott, Perry, and Breathitt Counties, Kentucky

Item 2: Oil & Gas Wells

LEGEND

- Substation
- Inverters
- Proposed Project Area
- Proposed Solar Panels
- Access Road
- Proposed Fenced Area

Oil & Gas Wells per KY Geological Survey

- Active Well - Permitted
- Inactive Well - Previously Permitted

Surveyed Oil & Gas Wells

- Active Gas Well
- Active Well
- Active Oil Well
- Dismantled Well

Pipelines

- DARA Energy 3 inch gas line surveyed
- DARA Energy 3 inch gas line not surveyed
- DARA Energy 4 inch gas line surveyed
- DARA Energy 4 inch gas line not surveyed
- DARA Energy 6 inch gas line surveyed

Data Sources:
ESRI Aerial Imagery 2024; Kentucky Geological Survey 2025; BrightNight 2025

Prepared for: STMOBn, LLC
Prepared by: Tetra Tech GIS Team (NB)
Updated: 7/3/2025

Spatial Reference
NAD 1983 StatePlane Kentucky FIPS 1600 Feet

Path: X:\GIS_BrightNight\Starfire\SpatialMapDocs\KSB_DataRequest_Response_PtZ.aprx

Request No. 3:

Explain whether Starfire will ensure all inactive gas wells are secured.

Response:

Starfire has obtained Affidavits confirming that most of the inactive wells identified in the map attached to the Response to Post-Hearing Request No. 2 above are plugged. See attached. The only inactive well which Starfire could not obtain an affidavit for is well #KL360. However, well #KL360 is outside of the Project footprint and Starfire does not intend to install generation infrastructure near that dismantled well location.

Responding Witness: Annie Winter

Outlook

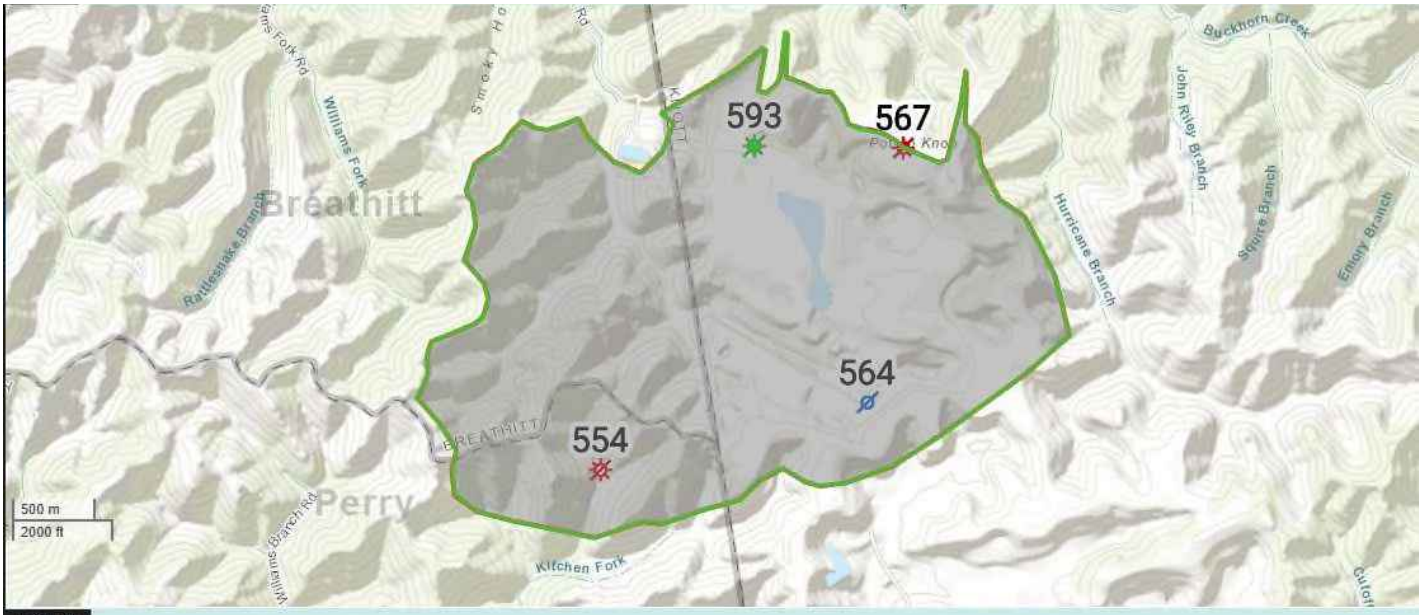
Re: Brightnight Plugged & Abandoned Wellls

From Lindsey Moffitt [redacted]
Date Tue 7/1/2025 10:44 AM
To Brian Patton <dexterbpatton@gmail.com>
Cc Michael Ricci [redacted]

4 attachments (3 MB)
593_Plugging Record.pdf; 554_Plugging Record.pdf; 564_Plugging Record.pdf; 567_Plugging Record.pdf;

Hi Brian,

Here are those plugging records!



TABLE

LEASES | PRODUCTION | WELLS | PERMITS | RIGS | LANDTRAC LEASE | LANDTRAC UNIT | OK SOURCE SPACING/UNITS | APPLICATIONS & ORDERS | OK RESPONDENTS

Active Filters: Well Status = P & A

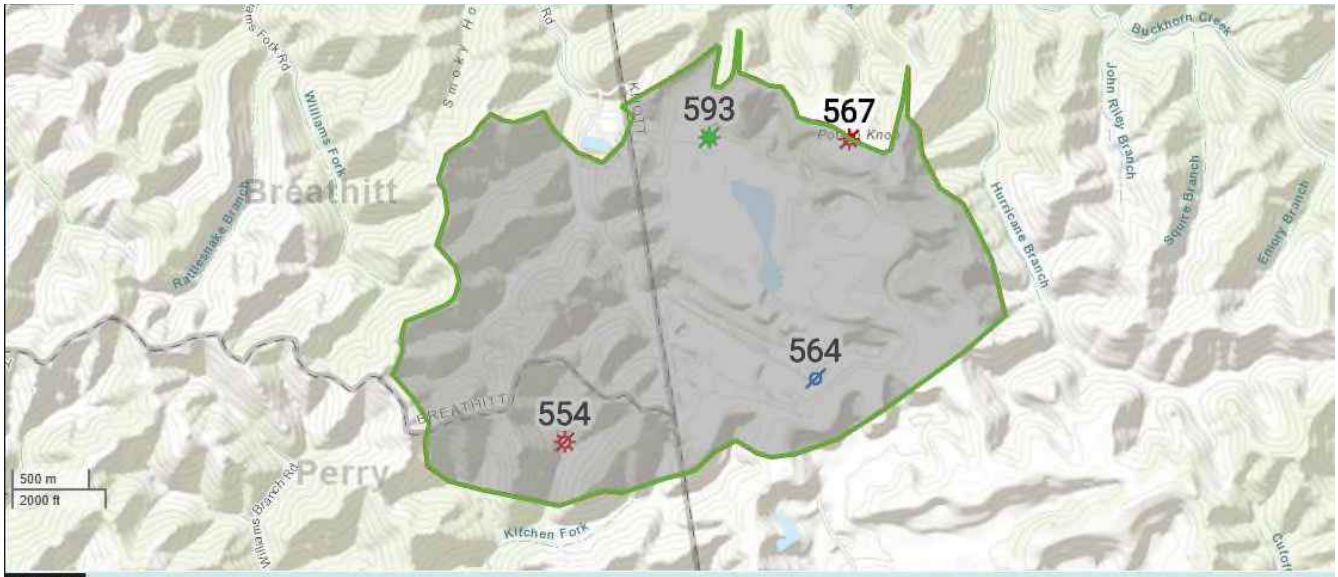
API14	Well Name	Well Number	Lease Name	Operator Alias (Legacy)	Operator Company Name	Operator (Reported)	Operatc
16119002900000	SCHMIDT, HENRY J	567	SCHMIDT, H...	CHESAPEAKE	EXPAND ENERGY	CHESAPEAKE APPA...	EXE
16119006690000	SCHMIDT, HENRY J	593	SCHMIDT, H...	CYPRUS MOUNTAIN COALS	CYPRUS MOUNTAIN COALS,...	CYPRUS MOUNTAIN ...	
16119018990000	SCHMIDT, HENRY J	564	SCHMIDT, H...	INLAND GAS	INLAND GAS	INLAND GAS CO, INC	
16193002960000	CALVIN CORP	554	CALVIN CORP	CYPRUS MOUNTAIN COALS	CYPRUS MOUNTAIN COALS,...	CYPRUS MOUNTAIN ...	

Lindsey Moffitt
[redacted]
[redacted]
[redacted]

From: Brian Patton <dexterbpatton@gmail.com>
Sent: Tuesday, July 1, 2025 10:20 AM
To: Lindsey Moffitt [redacted]
Cc: Michael Ricci [redacted]
Subject: Re: Brightnight Plugged & Abandoned Wellls

If you click on each well listing will it give you the actual plugging record? If so can you attach those to this map and remail.
On Tue, Jul 1, 2025 at 9:31 AM Lindsey Moffitt [redacted] wrote:

> Hi Brian,
>
> Here is a screen capture from Enverus of the Plugged & Abandoned wells. Let me know if this format works for you or if you would like something else?



TABLE

LEASES | PRODUCTION | WELLS | PERMITS | RIGS | LANDTRAC LEASE | LANDTRAC UNIT | OK SOURCE SPACING/UNITS | APPLICATIONS & ORDERS | OK RESPONDENTS

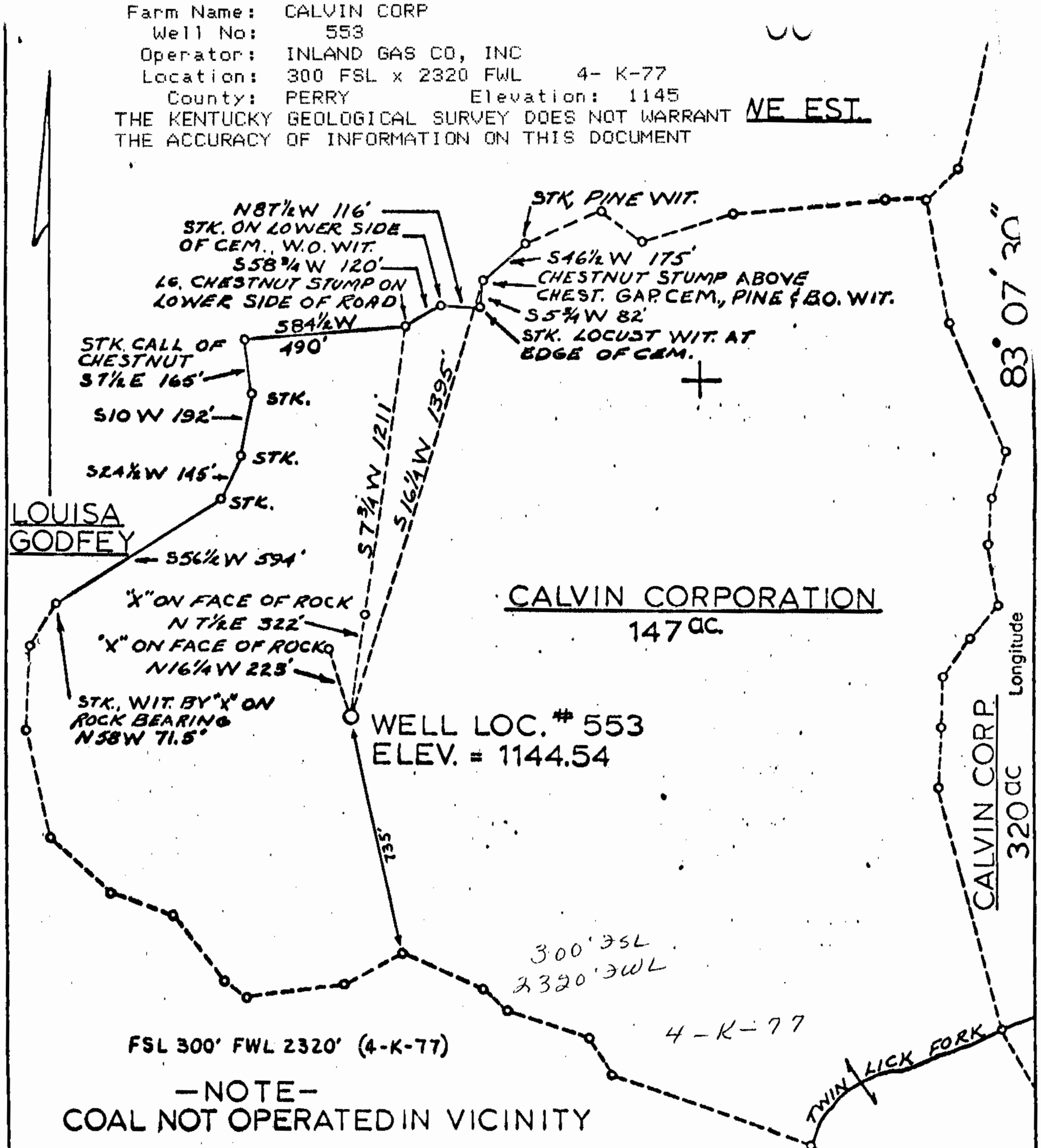
Active Filters: Well Status = P & A

API14	Well Name	Well Number	Lease Name	Operator Alias (Legacy)	Operator Company Name	Operator (Reported)	Operato
16119002900000	SCHMIDT, HENRY J	567	SCHMIDT, H...	CHESAPEAKE	EXPAND ENERGY	CHESAPEAKE APPA...	EXE
16119006690000	SCHMIDT, HENRY J	593	SCHMIDT, H...	CYPRUS MOUNTAIN COALS	CYPRUS MOUNTAIN COALS,...	CYPRUS MOUNTAIN ...	
16119018990000	SCHMIDT, HENRY J	564	SCHMIDT, H...	INLAND GAS	INLAND GAS	INLAND GAS CO, INC	
16193002960000	CALVIN CORP	554	CALVIN CORP	CYPRUS MOUNTAIN COALS	CYPRUS MOUNTAIN COALS,...	CYPRUS MOUNTAIN ...	

Lindsey Moffitt
Environmental Scientist
[redacted]
[redacted]
[redacted]
146 E Third St
Lexington, KY
40506

> received the message in error, and permanently delete the original and destroy any copy, including printed copies of this email and any attachments thereto.

Record No: 85572 Permit No: 28515
Farm Name: CALVIN CORP
Well No: 553
Operator: INLAND GAS CO, INC
Location: 300 FSL x 2320 FWL 4- K-77
County: PERRY Elevation: 1145
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT



—NOTE—
COAL NOT OPERATED IN VICINITY

New Location	☑
Storage	☐
Drill Deeper	☐
Abandonment	☐
Re-Drill/Fracture	☐

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of KENTUCKY
Minimum degree of accuracy is one part in 200

P. 28515

B. [redacted] Signed Robert Mullins - P.E. 7072
Tommy Moore L.S. 1000

Company THE INLAND GAS CO. INC.
Address ASHLAND, KENTUCKY
Farm CALVIN CORPORATION
Lease 2340 Acres 5471.25
Well Farm No. Well No. 553
Elevation - Spirit Level 1144.54
Quadrangle NOBLE, KY.
Township or District
County PERRY
Sec., Lot, Qr. ______ T ______ R ______
Coordinates LAT 37°24'03" LONG 83°08'33"
File No. ______ Dwg. No. ______
Date 10-16-74 Scale 1" = 400'

WELL LOCATION MAP

STATE OF KENTUCKY

(+) Denotes Values Of Well On United States Topographic Maps

Scale 15' ☐ 7½' ☑

Record No: 85572 Permit No: 28515
Farm Name: CALVIN CORP
Well No: 553
Operator: INLAND GAS CO, INC
Location: 300 FSL x 2320 FWL 4- K-77
County: PERRY Elevation: 1145
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

O & G 1-12-75

LEXINGTON, KY.

RECEIVED AUG 29 1975

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. 28515

Operator: The Inland Gas Company, Inc.
Farm Name: Calvin Corporation
Well No. 553

TYPE OPERATION (CHECK ONE)

New Well [XX]
Workover [ ]
Deepening [ ]

LOCATION

County: Perry
Carter Coordinates: 4 (SECTION) K (LETTER) 77 (NUMBER) QUAD.
Footage from Section Lines: 300' from S line 2320' from W line

ELEVATION 1144.54 (ground) 1146.54 (D.F.) (K.B.)

TOTAL DEPTH

Driller's Log 2100' Geophysical Log 2096.5'

OPERATIONAL DATES

Date Commenced 11/1/74 Date Drilling Completed 1/2/75
Date Plugged (IF DRY HOLE) Date Placed in Operation 6/4/75 (IF PRODUCING, INJECTION, ETC.)
Date Shut-in (IF SHUT-IN PRODUCER OR OTHER TEMPORARILY SUSPENDED OPERATION)

DRILLING METHOD

Cable Tools from Sur. to TD (DEPTHS)
Rotary Tools conventional-from ____ to ____ air - from ____ to ____ (DEPTHS)

CONTRACTOR(S): Johnson Drilling Company
Address: P. O. Box 844
Martin, Kentucky 41649

TYPE OF COMPLETION (CHECK ONE)

Dry Hole [ ]
Oil [X]
Gas [X]
Shut-in or Producing? Producing
Pressure Maintenance or Secondary Recovery: Water Injection [ ] Gas Injection [ ]
Gas Storage: Injection-Extraction [ ] Observation [ ]
SERVICE WELL: Saltwater Disposal [ ] Water Supply [ ] Observation Well [ ]
Other:

INITIAL PRODUCTION

Natural: Show oil and gas Date 1/1/75
After Treatment: 175 MCF 30 BOD Date 6/4/75

COMPLETION INTERVAL

Formation Name(s)	Interval(s)
Big Lime	2016' - 2022'

WELL TREATMENT (CHECK APPLICABLE BOXES)

				IN OPEN HOLE	THRU PERFORATION
Shot	____ qts.	____	Interval	[ ]	[ ]
Shot	____ qts.	____	Interval	[ ]	[ ]
Acid	2000 gals.	2016-2022	Interval	[ ]	[X]
Acid	____ gals.	____	Interval	[ ]	[ ]
Fracture	29,022 gals. / 29,000 lbs/sand	2016-2022	Interval	[ ]	[X]
Fracture	____ gals. / ____ lbs/sand	____	Interval	[ ]	[ ]

TYPE(S) OF GEOPHYSICAL LOGS RUN:
(Electrical, induction, sonic, gamma ray, neutron, density, etc.)

Gamma Ray
Mechanical Caliper - Diff. Temperature -
Gamma Ray - Density

CASING RECORD

SIZE	DEPTH	SKS CEMENT	CSG PULLED
16"			
10 3/4"	521'		
7"	1868'		1658'
4 1/2"	2111'	40	

OCCURRENCE OF OIL AND GAS

Interval (DEPTHS—TOP, BASE)	Formation	Remarks (SHOWS OF OIL AND/OR GAS, FILL-UP TESTS, DST'S, CORES, ETC.)
1217'-1227'	Sand	Show gas
2038'-2046'	Big Lime	Show oil

RECEIVED SEP 4 - 1975 KENTUCKY GEOLOGICAL SURVEY

The above information is complete and correct.

Signed W. A. Watson Jr.

Date August 27, 1975

Title Supt. of Production Operations

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	60	Fill dirt			
60	308	Slate			
308	432	Sand, water @ 315'			
432	488	Slate			
488	490	Coal			
490	880	Slate			
880	920	Sand			
920	1020	Slate, show gas @ 1217' to 1227'			
1020	1372	Sand, water @ 1320'			
1372	1375	Slate			
1375	1395	Sand			
1395	1420	Slate			
1420	1460	Sand			
1460	1465	Slate			
1465	1495	Sand			
1495	1615	Slate and shells			
1615	1630	Sand			
1630	1633	Red Rock			
1633	1648	Slate			
1648	1690	Sand			
1690	1818	Slate			
1818	1845	Little Lime			
1845	1848	Slate			
1848	2046	Big Lime, show oil @ 2038' to 2046'			
2046	2053	Keener			
2053	2096	Red Rock			
	2096	TOTAL DEPTH			

Record No: 85572 Permit No: 28515
Farm Name: CALVIN CORP
Well No: 553
Operator: INLAND GAS CO, INC
Location: 300 FSL x 2320 FWL 4- K-77
County: PERRY Elevation: 1145

KENTUCKY GEOLOGICAL SURVEY WELL TICKET

TIGHT FORMATION CARD

REFERENCE NO.		
COUNTY CODE (2-4)	PERMIT NO. (5-9)	YEAR REPORTED (10-11)
193	28515	74

Duplicate columns 2-11 on each card coded on this page

CARD NO. (1)	INTERVAL TOP (12-16)	INTERVAL BOTTOM (17-21)	FORMATION CODE (22-24)	FORMATION NAME (25-29)	NATURAL (UNTREATED) OPEN FLOW IN MCF (30-33)	DETERMINED (34)	PERMEABILITY (md) (35-39)	SOURCE (40)	TREATMENT (ACID, SHOT, FRAC, NONE) (41-44)	INITIAL (AFTER TREATMENT) OPEN FLOW IN MCF (45-49)	COMMENTS (50-79)	PAY NO. (80)
7	1848	2046	333	BIGL	10	E			FRAC			1

Record No: 85572 Permit No: 28515
Farm Name: CALVIN CORP
Well No: 553
Operator: INLAND GAS CO, INC
Location: 300 FSL x 2320 FWL 4- K-77
County: PERRY Elevation: 1145
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

CARD NO.	INITIAL (AFTER TREATMENT) OPEN FLOW IN MCF	COMMENTS	PAY NO.
7			
7			

CARD NO. (1)	INTERVAL TOP (12-16)	INTERVAL BOTTOM (17-21)	FORMATION CODE (22-24)	FORMATION NAME (25-29)	NATURAL (UNTREATED) OPEN FLOW IN MCF (30-33)	DETERMINED (34)	PERMEABILITY (md) (35-39)	SOURCE (40)	TREATMENT (ACID, SHOT, FRAC, NONE) (41-44)	INITIAL (AFTER TREATMENT) OPEN FLOW IN MCF (45-49)	COMMENTS (50-79)	PAY NO. (80)
7												
7												
7												

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES & 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)

Appalachian Realty Company (Cyprus Mtn Coals)
NAME AND ADDRESS OF LAST OPERATOR

INLAND GAS CO
NAME AND ADDRESS OF ORIGINAL OPERATOR

NAME AND ADDRESS OF COAL OPERATOR

PERMIT NO. 28515, **ELEVATION** 1144.54, **COUNTY** PERRY, **TOTAL DEPTH** 2096

CARTER COORDINATES 0300 FSL, 2320 FWL, SEC. 4, **LETTER** K, **NUMBER** 77

FARM OWNER (LESSOR) CALVIN CORPORATION **WELL NUMBER** 553

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 TO BE MAILED BY REGISTERED MAIL TO EACH COAL OPERATOR NAMED AT THEIR RESPECTIVE ADDRESSES.

AFFIDAVIT

0085572007

STATE OF KENTUCKY,

COUNTY OF _____ } SS:

_____, **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** 8-17-01 XXX, **RECORD OF WHICH IS LISTED BELOW OR SHOWN ON THE BACK OF THIS FORM.**

(PLUG DESCRIPTION)

PLUGGED:	**FROM**	2096	**TO**	1796	**WITH**	30 sks CLASS A CEMENT
	FROM	1657	**TO**	1557	**WITH**	46 sks CLASS A CEMENT
	FROM	1350	**TO**	1200	**WITH**	70 sks CLASS A CEMENT
	FROM	550	**TO**	450	**WITH**	58 sks CLASS A CEMENT
	FROM	350	**TO**	250	**WITH**	58 sks CLASS A CEMENT
	FROM	100	**TO**	0	**WITH**	78 sks CLASS A CEMENT
	FROM		**TO**		**WITH**	
	FROM		**TO**		**WITH**	

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

CASING SIZE 16, **INTERVAL** 0-62, **SHOT OFF AT** _____ **BOTTOM OF CASING AT** 62

CASING SIZE 10 3/4, **INTERVAL** 0-521, **SHOT OFF AT** _____ **BOTTOM OF CASING AT** 521

CASING SIZE 4 1/2, **INTERVAL** 0-2111, **SHOT OFF AT** 1657 **BOTTOM OF CASING AT** 2111

IF CASING WAS NOT LEFT IN THE WELL, INDICATE THE BORE HOLE SIZE AND INTERVAL. 10 3/4 PERF @ 500,450, 350,300,200,100,50

BORE HOLE SIZE 10" **INTERVAL** 0-1868

BORE HOLE SIZE _____ **INTERVAL** _____

STATE WHETHER OR NOT OTHER STEEL OR JUNK WAS LEFT IN THE WELL AND DESCRIBE: _____

RODNEY OSBORNE
R & J WELL SERVICE INC PRESIDENT
(OPTIONAL) SIGNATURE OF CONTRACTOR RESPONSIBLE FOR ABOVE PLUGGING **TITLE**

Mgr. of Technical Services
(REQUIRED) SIGNATURE OF OPERATOR RESPONSIBLE FOR ABOVE PLUGGING **TITLE**

SWORN TO AND SUBSCRIBED BEFORE ME THIS 10th **DAY OF** SEPTEMBER, 2001

Nancy W Lewis
NOTARY PUBLIC

MY COMMISSION EXPIRES: 1/23/02

SEP 12 2001

ALL BLANKS MUST BE COMPLETED. INCOMPLETE AFFIDAVITS WILL BE REJECTED.
FORM ED-38 (REV. 2-99)

OVER

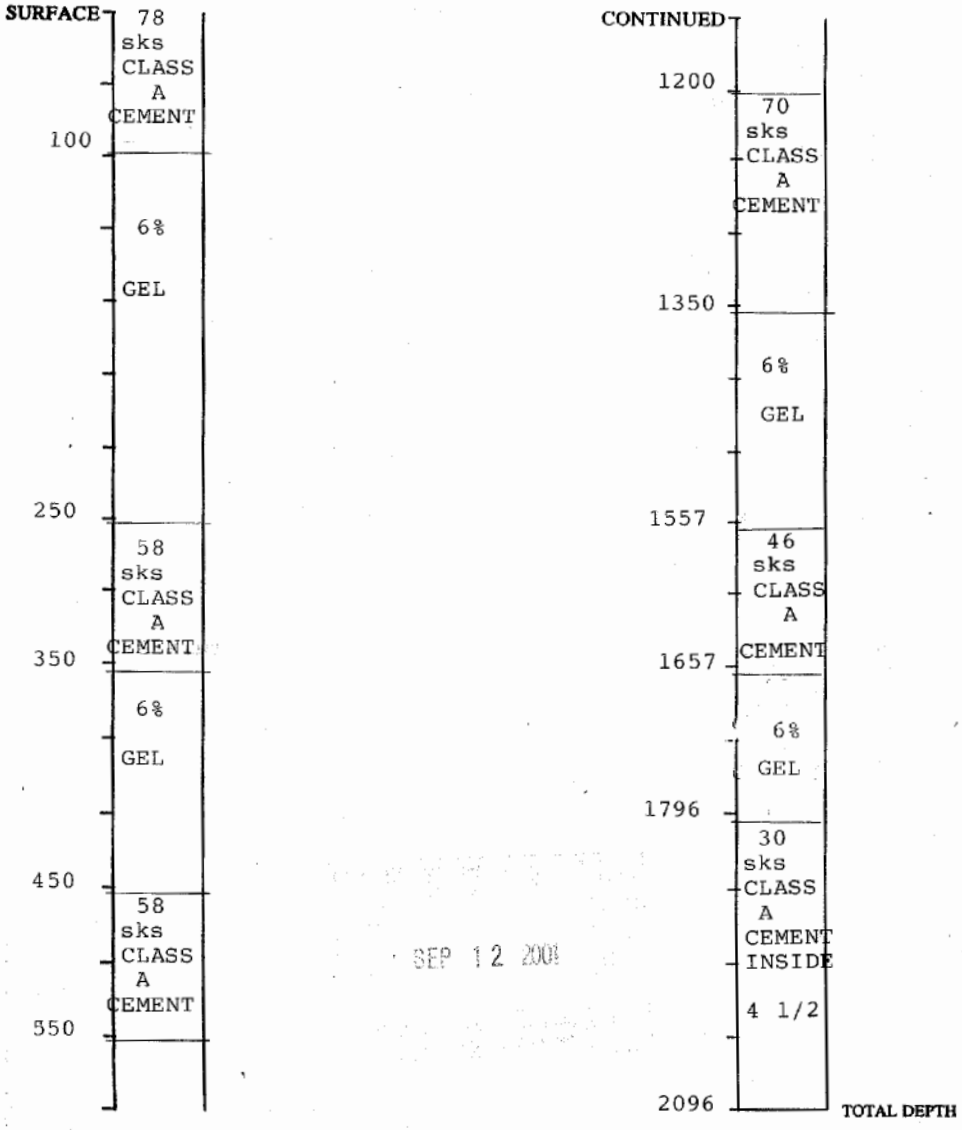
0085572008

CEMENT TABLE

HOLE SIZE	2"	3"	4"	5"	6 1/2"	8"	8 1/2"	8 3/4"	10"	12"	16"
NO. FT. FILLED PER SACK OF CEMENT*	45'	20'	11'	7'	4'	2 3/4'	2 1/2'	2 1/3	2'	1'	1/2'

* 1 CUBIC FOOT PER SACK

GRAPHICALLY SHOW BELOW THE LOCATION AND INTERVAL OF ALL PLUGS INSTALLED.



SEP 12 2008

IF THE WELL IS TO BE LEFT AS A DOMESTIC WATER WELL, PLUG ACCORDING TO THE INSPECTORS INSTRUCTIONS, COMPLETE THIS FORM ON BOTH SIDES AND HAVE THE FOLLOWING AFFIDAVIT SIGNED BY THE REAL ESTATE OWNER.

AFFIDAVIT

I,_____, THE OWNER OF THE REAL ESTATE ON WHICH THIS WELL WAS DRILLED, DESIRE THAT THE WELL BE LEFT OPEN FROM THE FRESH WATER ZONE TO THE SURFACE FOR USE AS A WATER WELL AND DO HEREBY ACCEPT THE FULL RESPONSIBILITY FOR SAID WATER WELL. THE OIL OPERATOR REMAINS RESPONSIBLE FOR ALL PLUGS BELOW THE FRESH WATER ZONE

SIGNATURE OF OWNER OR HIS AGENT

DATE

OP

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF MINES & 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)

CYPRUS COAL CO.
NAME AND ADDRESS OF LAST OPERATOR

CNR
NAME AND ADDRESS OF ORIGINAL OPERATOR

CYPRUS COAL CO.
NAME AND ADDRESS OF COAL OPERATOR

PERMIT NO. 28496, ELEVATION 1111.08, COUNTY PERRY, TOTAL DEPTH 1975

CARTER COORDINATES 1280 ~~FNL~~ FSL, 300 ~~FEL~~ FWL, SEC. 3, LETTER K, NUMBER 77

FARM OWNER (LESSOR) CALVIN CORP WELL NUMBER 554

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 TO BE MAILED BY REGISTERED MAIL TO EACH COAL OPERATOR NAMED AT THEIR RESPECTIVE ADDRESSES.

AFFIDAVIT

STATE OF KENTUCKY,

COUNTY OF _____ } SS:

_____, **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** 1-24 2001, **RECORD OF WHICH IS LISTED BELOW OR SHOWN ON THE BACK OF THIS FORM.**

(PLUG DESCRIPTION)

PLUGGED:	FROM	1975	TO	1925	WITH	12 sks class A cement
	FROM	1600	TO	1500	WITH	68 sks Class A cement
	FROM	1150	TO	1000	WITH	68 sks classs A cement
	FROM	450	TO	600	WITH	68 sks class A cement
	FROM	150	TO	0	WITH	68 sks class A cement
	FROM		TO		WITH	
	FROM		TO		WITH	
	FROM		TO		WITH	

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 0-489, SHOT OFF AT _____ BOTTOM OF CASING AT 489

CASING SIZE 7 ", INTERVAL 0-1850, SHOT OFF AT 1600 BOTTOM OF CASING AT 1850

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

BORE HOLE SIZE 10" 0-1850 INTERVAL _____

BORE HOLE SIZE _____ INTERVAL _____

STATE WHETHER OR NOT OTHER STEEL OR JUNK WAS LEFT IN THE WELL AND DESCRIBE: _____

RECEIVED
FEB 17 2001
DEPARTMENT OF MINES AND MINERALS
DIVISION OF OIL AND GAS

Rod Osborne
RODNEY OSBORNE
R&J WELL SERVICE, INC PRESIDENT
(OPTIONAL) SIGNATURE OF CONTRACTOR RESPONSIBLE FOR ABOVE PLUGGING TITLE

X Charles D Sanders
MGR. TECHNICAL SERVICES
(REQUIRED) SIGNATURE OF OPERATOR RESPONSIBLE FOR ABOVE PLUGGING TITLE

SWORN TO AND SUBSCRIBED BEFORE ME THIS 15th DAY OF FEBRUARY, A.D. 2001

Danny Combs - SPECIAL COMMISSION
NOTARY PUBLIC

MY COMMISSION EXPIRES: 1/23/2002

ALL BLANKS MUST BE COMPLETED. INCOMPLETE AFFIDAVITS WILL BE REJECTED.
FORM ED-38 (REV. 2-99)

0085571005

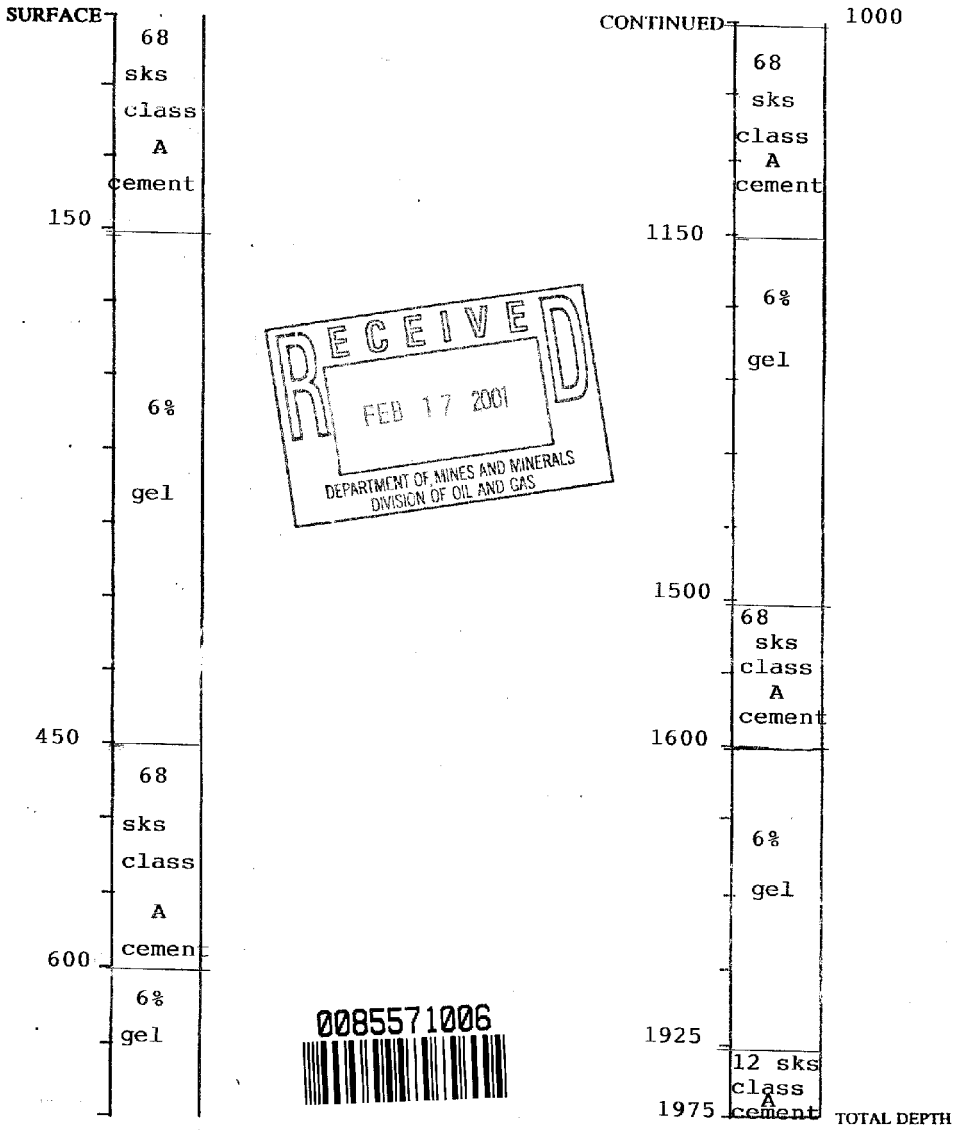
OVER

CEMENT TABLE

HOLE SIZE	2"	3"	4"	5"	6 1/2"	8"	8 1/2"	8 3/4"	10"	12"	16"
NO. FT. FILLED PER SACK OF CEMENT*	45'	20'	11'	7'	4'	2 3/4'	2 1/2'	2 1/3	2'	1'	1/2'

* 1 CUBIC FOOT PER SACK

GRAPHICALLY SHOW BELOW THE LOCATION AND INTERVAL OF ALL PLUGS INSTALLED.



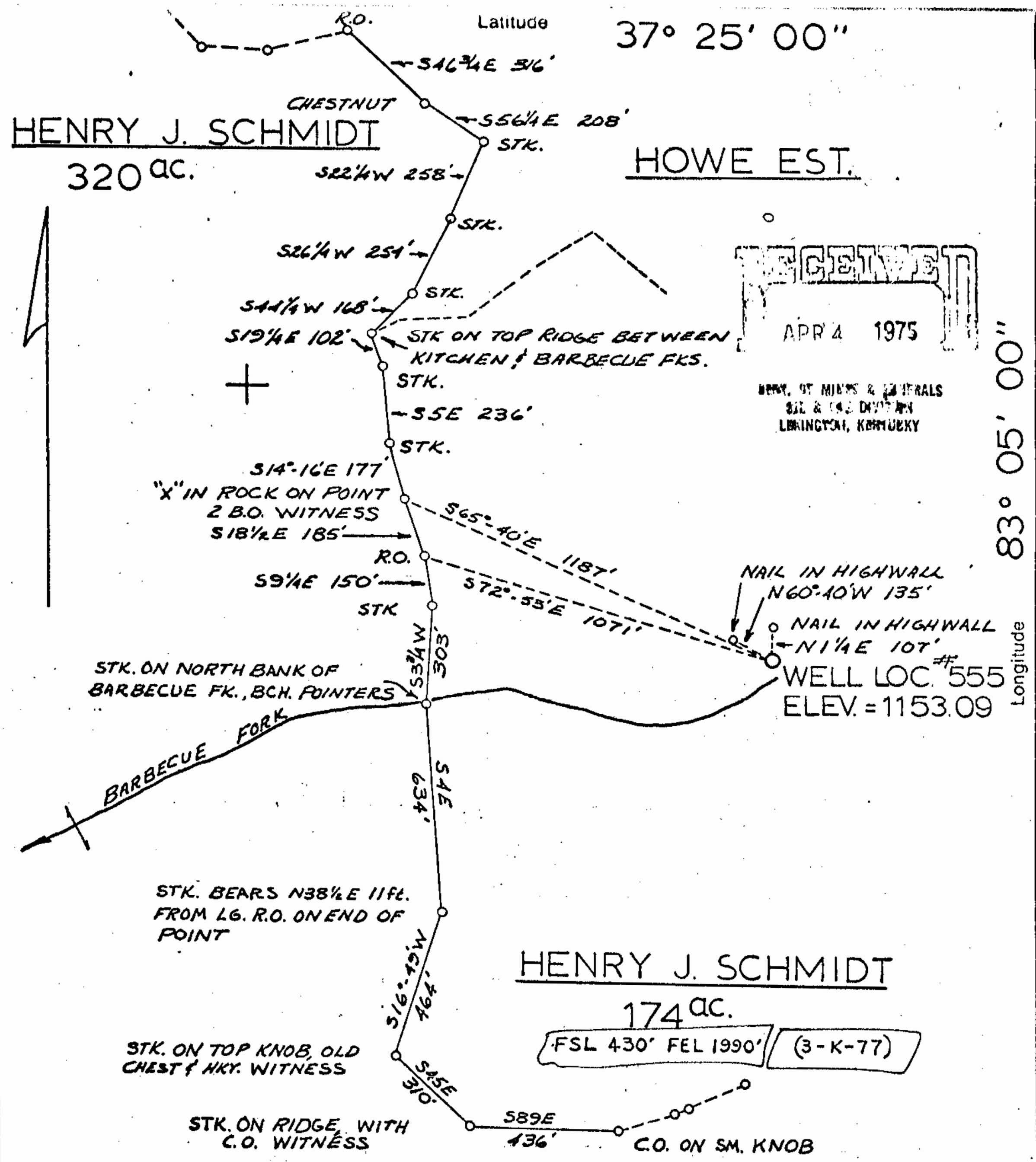
IF THE WELL IS TO BE LEFT AS A DOMESTIC WATER WELL, PLUG ACCORDING TO THE INSPECTORS INSTRUCTIONS. COMPLETE THIS FORM ON BOTH SIDES AND HAVE THE FOLLOWING AFFIDAVIT SIGNED BY THE REAL ESTATE OWNER.

AFFIDAVIT

I,_____, THE OWNER OF THE REAL ESTATE ON WHICH THIS WELL WAS DRILLED, DESIRE THAT THE WELL BE LEFT OPEN FROM THE FRESH WATER ZONE TO THE SURFACE FOR USE AS A WATER WELL AND DO HEREBY ACCEPT THE FULL RESPONSIBILITY FOR SAID WATER WELL. THE OIL OPERATOR REMAINS RESPONSIBLE FOR ALL PLUGS BELOW THE FRESH WATER ZONE

_____ _____

SIGNATURE OF OWNER OR HIS AGENT DATE



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APR 4 1975
DEPT. OF MINES & MINERALS
OIL & GAS DIVISION
LEXINGTON, KENTUCKY

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of KENTUCKY

Minimum degree of accuracy is one part in 200

P. 29012

- New Location ☑
- Storage ☐
- Drill Deeper ☐
- Abandonment ☐
- Re-Drill/Fracture ☐

Signed R. N. [illegible] - P.E. 7072
Tommy Mo[illegible] - L.S. 1000

Company THE INLAND GAS CO. INC.
Address ASHLAND, KENTUCKY
Farm HENRY J. SCHMIDT
Lease 2340 Acres 5,471.25
Well Farm No. ~~Schmidt~~ Well 555
Elevation - Spirit Level 1153.09
Quadrangle VEST, KY.
Township or District
County KNOTT
Sec., Lot, Qr. ________ T ________ R ________
Coordinates LAT. 37°24'03" LONG. 83 07 24
File No. ________ Dwg. No. ________
Date 3-3-75 Scale 1" = 400'

WELL LOCATION MAP

STATE OF KENTUCKY

Record No: 55632 Permit No: 29012
Farm Name: SCHMIDT, HENRY J
Well No: 555
Operator: INLAND GAS CO, INC
Location: 430 FSL x 1990 FEL 3- K-77
County: KNOTT Elevation: 1153
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

Record No: 55632 Permit No: 29012
Farm Name: SCHMIDT, HENRY J
Well No: 555
Operator: INLAND GAS CO, INC
Location: 430 FSL x 1990 FEL 3- K-77
County: KNOTT Elevation: 1153
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT LS
THE ACCURACY OF INFORMATION ON THIS DOCUMENT
LEXINGTON, KY.

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FEB 17 1976

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

WELL LOG AND COMPLETION REPORT

O & G
9/23/75

TO BE FILED IMMEDIATELY AFTER COMPLETION OF WELL

NOTICE: IT IS NECESSARY TO SUBMIT A RECORD FOR EACH PERMIT.

WELL IDENTIFICATION Permit No. 29012
Operator The Inland Gas Company, Inc.
Farm Name Calvin Corporation Henry J. Schmidt
Well No. 555

TYPE OPERATION (CHECK ONE)
New Well [X]
Workover [ ]
Deepening [ ]

LOCATION
County Knott
Carter Coordinates 3 (SECTION) K (LETTER) 77 (NUMBER) QUAD.
Footage from Section Lines: 430' from S line 1990' from E line

ELEVATION 1153.09' (ground) 1155.09' (D.F.) (K.B.)

TOTAL DEPTH
Driller's Log ~~2074'~~ 2083 Geophysical Log 2069'

OPERATIONAL DATES
Date Commenced 4-23-75 Date Drilling Completed 6-10-75
Date Plugged (IF DRY HOLE) Date Placed in Operation 9-23-75 (IF PRODUCING, INJECTION, ETC.)
Date Shut-in (IF SHUT-IN PRODUCER OR OTHER TEMPORARILY SUSPENDED OPERATION)

DRILLING METHOD
Cable Tools from sur (DEPTHS) to 2074' (DEPTHS)
Rotary Tools conventional - from ____ to ____ (DEPTHS)
air - from ____ to ____ (DEPTHS)

CONTRACTOR(S): Johnson Drilling Company
Address: Martin, Kentucky 41649

TYPE(S) OF GEOPHYSICAL LOGS RUN:
(Electrical, induction, sonic, gamma ray, neutron, density, etc.)
Gamma Ray, Density, Temperature

TYPE OF COMPLETION (CHECK ONE)
Dry Hole [ ]
Oil [X]
Gas [X]
Shut-in or Producing? Producing
Pressure Maintenance or Secondary Recovery: Water Injection [ ] Gas Injection [ ]
Gas Storage: Injection-Extraction [ ] Observation [ ]
SERVICE WELL: Saltwater Disposal [ ] Water Supply [ ] Observation Well [ ]
Other:

INITIAL PRODUCTION
Natural show Date 6-10-75
After Treatment 65 Mcf/10 BOPD Date 6-18-75

COMPLETION INTERVAL

Formation Name(s)	Interval(s)
Big Lime	2014-2022

WELL TREATMENT (CHECK APPLICABLE BOXES)

				IN OPEN HOLE	THRU PERFORATION
Shot	____ qts.	____	interval	[ ]	[ ]
Shot	____ qts.	____	interval	[ ]	[ ]
Acid	2000 gals.	2014-2022	interval	[ ]	[X]
Acid	____ gals.	____	interval	[ ]	[ ]
Fracture	40,320 gals. / 42,000 lbs/sand	2014-2022	interval	[ ]	[X]
Fracture	____ gals. / ____ lbs/sand	____	interval	[ ]	[ ]

CASING RECORD

SIZE	DEPTH	SKS CEMENT	CSG PULLED
16"	35'		
10 3/4"	496'		496'
7"	1888'		1506'
4 1/2"	2076'	30	

OCCURRENCE OF OIL AND GAS

Interval (DEPTHS—TOP, BASE)	Formation	Remarks (SHOWS OF OIL AND/OR GAS, FILL-UP TESTS, DST'S, CORES, ETC.)
2004-2007	Big Lime	Show Gas
2014-2023	Big Lime	Show Oil

RECEIVED
FEB 20 1976
KENTUCKY GEOLOGICAL SURVEY

The above information is complete and correct.
Date 2/13/76
Signed W. A. Watson Jr.
Title Supt. Production Operations

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	30	Fill			
30	105	Slate			
105	107	Coal, water 7 B. P. H.			
107	172	Sand			
172	310	Slate			
310	313	Coal			
313	330	Slate			
330	385	Sand			
385	425	Slate			
425	450	Sand			
450	675	Slate			
675	715	Sand			
715	810	Slate			
810	835	Sand			
835	915	Slate			
915	947	Sand			
947	1020	Slate			
1020	1140	Slate & Shells			
1140	1274	Sand			
1274	1279	Slate			
1279	1400	Sand, water @ 1355'			
1400	1405	Slate			
1405	1520	Sand			
1520	1550	Slate			
1550	1565	Slate & Shells			
1565	1600	Sand			
1600	1625	Slate			
1625	1745	Maxon			
1745	1760	Shale			
1760	1770	Lime			
1770	1850	Slate & Shells			
1850	1873	Little Lime			
1873	1876	Slate			
1876	2034	Big Lime, Gas @ 2004; oil @ 2014			
2034	2056	Keener			
2056	2083	Red Rock			
	2083	TOTAL DEPTH			

Record No: 55632 Permit No: 29012
Farm Name: SCHMIDT, HENRY J
Well No: 555
Operator: INLAND GAS CO, INC
Location: 430 FSL x 1990 FEL 3- K-77
County: KNOTT Elevation: 1153

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

DEC 6 1988

(Type or Print)

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

INLAND GAS COMPANY - P. O. BOX 1180 - ASHLAND, KENTUCKY 41101-1180
Name and Address of Last Operator

INLAND GAS COMPANY - P. O. BOX 1180 - ASHLAND, KENTUCKY 41101-1180
Name and Address of Original Operator Who First Permitted and Drilled This Well

Name and Address of Coal Operator

Permit No. 29012, Elevation 1153.09, County Knott, Total Depth 2074'D.D.

Carter Coordinates 430' ~~FSL~~ FNL, FSL, 1990 ~~FWL~~ FEL, Sec. 3, Letter K, Number 77

Farm Owner (Lessor) Calvin Corporation Well Number 555

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

0055632006

STATE OF KENTUCKY,
COUNTY OF ______ } SS:

INLAND GAS 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 Oct. 28, 1988, record of which is listed below or shown on the back of this form.

PLUGGED:	From	To	With (Plug Description)
	1750'		Cast Iron Plug
	1450'	1400'	25 sks. cement
	550'	500'	25 sks. cement
	330'	295'	26 sks. cement
	125'	85'	37 sks. cement
			Rock and clay between all
			cement plugs

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

Casing Size	Interval	Shot Off At	Bottom of Casing At
4 1/2"	0-2076	1615'	2076'
7"		1506'	1888'

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

Bore Hole Size 12 1/4" Interval 35' - 496'

Bore Hole Size 8 3/4" Interval 496' - 1888'

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

Oliver Roberts Drilling Co by Robert S. Roberts — Mgr.
(Optional) Signature of Contractor responsible for above plugging — Title

[signature] — Tech.
(Required) Signature of Operator responsible for above plugging — Title

Sworn to and subscribed before me this 28 day of November, 19 88

Nancy P. Tackett
Notary Public

My commission expires: 8-26-89

All Blanks must be completed. Incomplete affidavits will be rejected.
Revised 2-84

Record No: 55630 Permit No: 30697
Farm Name: SCHMIDT, HENRY J
Well No: 564
Operator: INLAND GAS CO, INC
Location: 2600 FSL x 700 FWL 2- K-77
County: KNOTT Elevation: 1421
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT THE ACCURACY OF INFORMATION ON THIS DOCUMENT

opc

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

INLAND GAS COMPANY - P. O. BOX 1180 - ASHLAND, KENTUCKY 41101
Name and Address of Last Operator

"SAME"
Name and Address of Original Operator Who First Permitted and Drilled This Well

MOUNTAIN COALS, INC. - P. O. BOX 423 - BULAN, KENTUCKY 41722
Name and Address of Coal Operator

Permit No. 30697, Elevation 1420.72, County Knott, Total Depth 2337'

Carter Coordinates 2600' FSL, 700 FWL, Sec. 2, Letter K, Number 77

Farm Owner (Lessor) Henry J. Schmidt Well Number 564

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

MAY 6 1987

STATE OF KENTUCKY,
COUNTY OF _____ } SS:

INLAND GAS 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 March 13, 1987, record of which is listed below or shown on the back of this form.

					(Plug Description)
PLUGGED:	From		To 2200'	With	Set cast iron bridge plug.
	From 1550'		To 1500'	With	Brush Bridge & Rock & Clay
	From 1500'		To 1460'	With	22 sks. cement
	From 1000'		To 975'	With	14 sks. Cement
	From 500'		To 475'	With	14 sks. cement
	From 310'		To 280'	With	30 sks. cement
	From		To	With	
	From		To	With	Rock and Clay between all cement plugs.

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

Casing Size 4 1/2", Interval _____, Shot Off at 1940', Bottom of Casing At 2328'
Casing Size _____, Interval _____, Shot Off At _____, Bottom of Casing At _____
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.

Bore Hole Size 12 1/4" Interval 0 -464'
Bore Hole Size 8" Interval 464' - 2138'

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

Oliver M. Roberts — Contractor
(Optional) Signature of Contractor responsible for above plugging — Title

W. A. Watson Jr. — Production Manager
(Required) Signature of Operator responsible for above plugging — Title

Sworn to and subscribed before me this 4th day of MAY, 19 87

Doris A. Armstrong
Notary Public

My commission expires: 8/11/90

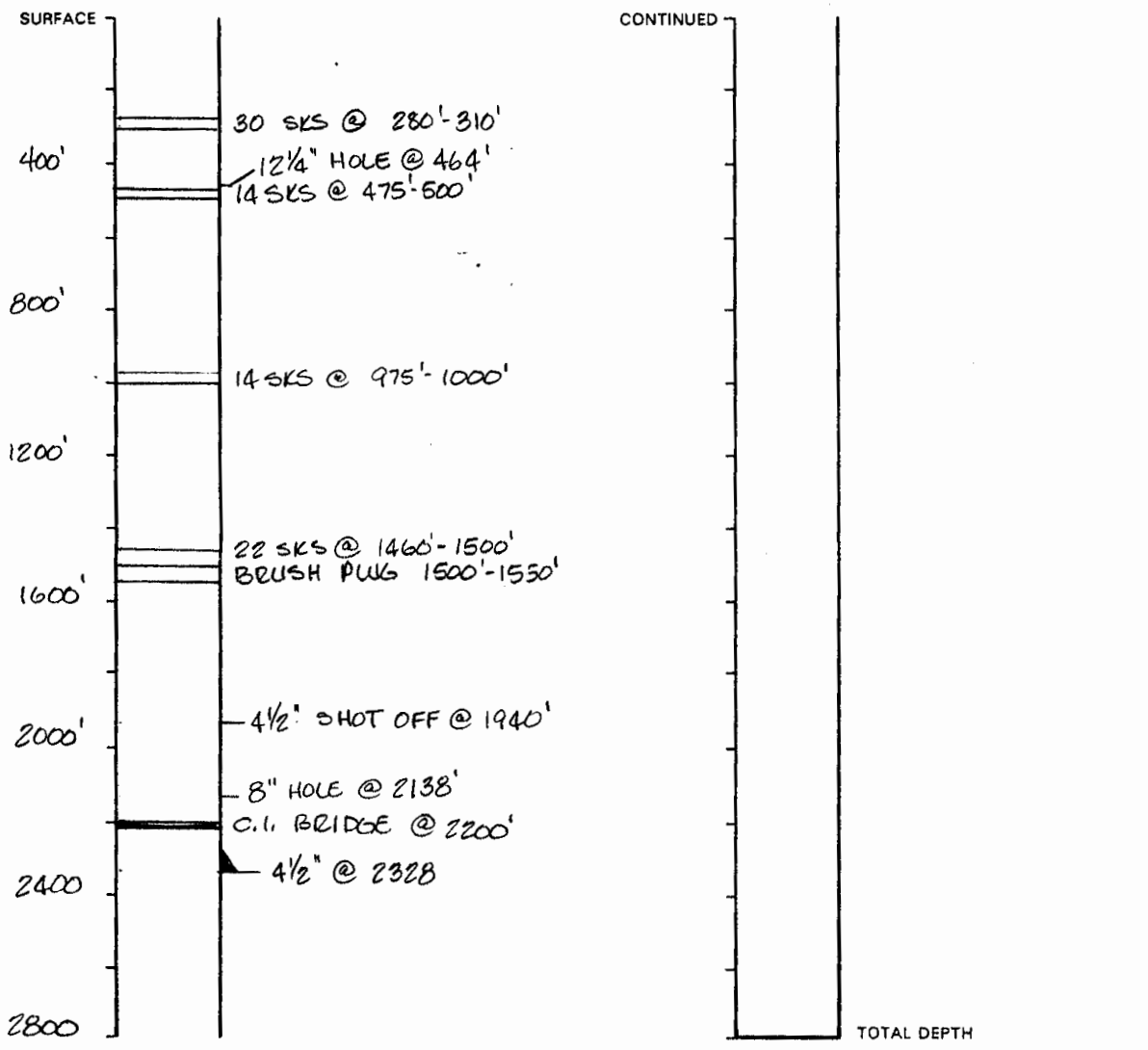
All Blanks must be completed. Incomplete affidavits will be rejected.
Revised 2-84

Record No: 55630 Permit No: 30697
Farm Name: SCHMIDT, HENRY J
Well No: 564
Operator: INLAND GAS CO, INC
Location: 2600 FSL x 700 FWL 2- K-77
County: KNOTT Elevation: 1421
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

Hole Size	2"	3"	4"	5"	6½"	8"	8½"	8¾"	10"	12"	16"
No. Ft. Filled per sack of cement*	45'	20'	11'	7'	4'	2¾'	2½'	2⅓'	2'	1'	½'

*1 cubic foot per sack

Graphically Show Below the Location and Interval of all Plugs Installed



If the well is to be left as a domestic water well, plug according to the Inspectors instructions, complete this form on both sides and have the following affidavit signed by the real estate owner.

AFFIDAVIT

I, _____, the owner of the real estate on which this well was drilled, desire that the well be left open from the fresh water zone to the surface for use as a water well and do hereby accept the full responsibility for said water well. The Oil Operator remains responsible for all plugs below the fresh water zone.

_____ _____
Signature of Owner or his agent Date

R#57045

1 of 2

COMMONWEALTH OF KENTUCKY
DEPARTMENT FOR NATURAL RESOURCES
DIVISION OF OIL AND GAS
P. O. Box 2244
Frankfort, KY 40602
Phone: (502) 573-0147 Fax: (502) 573-1099
http://oilandgas.ky.gov
(TYPE OR PRINT IN INK)

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

Chesapeak Appalachia L.L.C., P.O. Box 18496, Oklahoma City, OK 73154-0496
NAME AND ADDRESS OF LAST OPERATOR

E-MAIL ADDRESS OF LAST OPERATOR
The Inland Gas Company, Inc
NAME AND ADDRESS OF ORIGINAL OPERATOR

E-MAIL ADDRESS OF ORIGINAL OPERATOR
Black Hawk Mining LLC, 3228 Summit Square Place, Suite 180, Lexington,KY 40509
NAME AND ADDRESS OF COAL OPERATOR

E-MAIL ADDRESS OF COAL OPERATOR

PERMIT NO. 30770 ELEVATION 1420.8 COUNTY Knott TOTAL DEPTH 2121'

CARTER COORDINATES 1500 ☐ FNL ☒ FSL 1400 ☐ FEL ☒ FWL SEC 22 LETTER L NUMBER 77

FARM OWNER (LESSOR) Henry J. Schmidt WELL NUMBER 567

AFFIDAVIT TO BE MADE IN TRIPLICATE, ONE COPY TO BE MAILED TO THE DIVISION OF OIL AND GAS, 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~~ WV
COUNTY OF Kanawha) SS:

NOTARY PUBLIC OFFICIAL SEAL
CHARLOTTE A. CULLIFER
State of West Virginia
My Comm. Expires Sep 11, 2020
Chesapeake Energy Corporation
414 Summers Street, WV 25301

B.E. Schindler, 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 1-14-16, RECORD OF WHICH IS LISTED BELOW OR SHOWN ON THE BACK OF THIS FORM.

	(PLUGGED DATE) (BOTTOM)	(TOP)	(PLUG DESCRIPTION)
PLUGGED: FROM	2113'	TO 1829	WITH 50sx of Class A Cement
PLUGGED: FROM	1254'	TO 1029'	WITH 50sx of Class A Cement
PLUGGED: FROM	819'	TO 600'	WITH 80sx of Class A Cement
PLUGGED: FROM	409'	TO 302'	WITH 45sx of Class A Cement
PLUGGED: FROM	157'	TO Surface	WITH 75sx of Class A Cement
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH
PLUGGED: FROM		TO	WITH

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

CASING SIZE 16"	INTERVAL 0----27'	SHOT OFF AT	BOTTOM OF CASING AT 27'
CASING SIZE 10 3/4"	INTERVAL 0---356'	SHOT OFF AT	BOTTOM OF CASING AT 356'
CASING SIZE 7"	INTERVAL 0--2113'	SHOT OFF AT 665'	BOTTOM OF CASING AT 2113'

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

CASING SIZE 7" casing INTERVAL 10" hole from 665' to 356',
CASING SIZE _____ INTERVAL inside 10 3/4" casing (cemented to surface) from 356' to surface

Kentucky Geological Survey
00570450004

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DIVISION OF OIL & GAS

(OPTIONAL) SIGNATURE OF CONTRACTOR RESPONSIBLE FOR ABOVE PLUGGING TITLE

(REQUIRED) B.E. Schindler SIGNATURE OF WELL OPERATOR (AUTHORIZED AGENT) Completion Supt. TITLE

SWORN TO AND SUBSRIBED BEFORE ME THIS DATE 2nd DAY OF December, 2016

Commission Expires 9-11-2020

Charlotte A. Cullifer
Charlotte A Cullifer

R# 57045

2 of 2

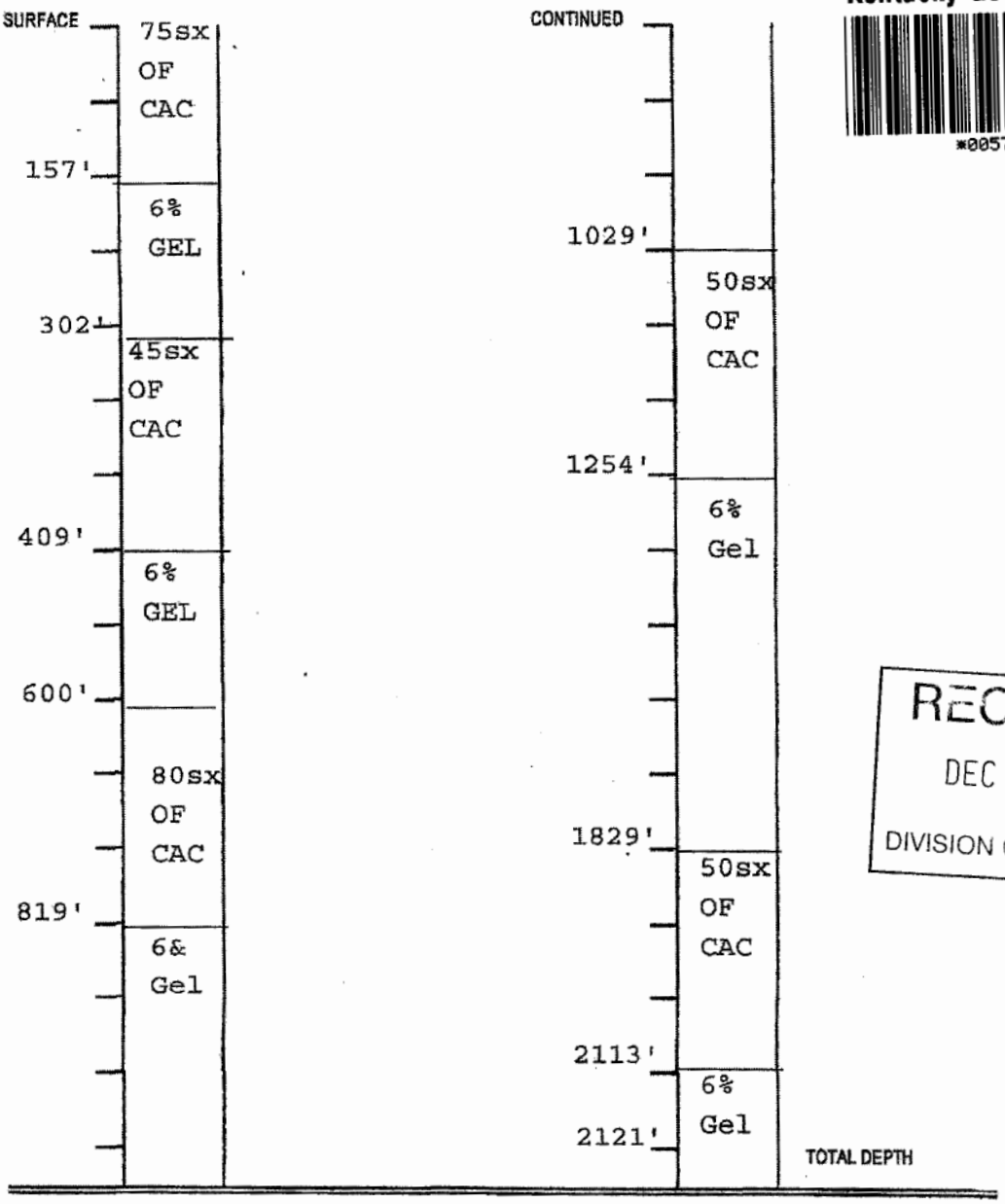
Per.# 30770

CEMENT TABLE

HOLE SIZE	2"	3"	4"	5"	6 1/2"	8"	8 1/2"	8 3/4"	10"	12"	16"
NO. FT. FILLED PER SACK OF CEMENT*	45'	20'	11'	7'	4'	2 3/4'	2 1/2'	2 1/3'	2'	1'	1/2'

*1 CUBIC FOOT PER SACK

GRAPHICALLY SHOW BELOW THE LOCATION AND INTERVAL OF ALL PLUGS INSTALLED.



IF THE WELL IS TO BELEFT AS A DOMESTIC WATER WELL, PLUG ACCORDING TO THE INSPECTOR'S INSTRUCTIONS, COMPLETE THIS FORM ON BOTH SIDES AND HAVE THE FOLLOWING AFFIDAVIT SIGNED BY THE REAL ESTATE OWNER.

AFFIDAVIT

I, _____, THE OWNER OF THE REAL ESTATE ON WHICH THIS WELL WAS DRILLED, DESIRE THAT THE WELL BE LEFT OPEN FROM THE FRESH WATER ZONE TO THE SURFACE FOR USE AS A WATER WELL AND DO HEREBY ACCEPT THE FULL RESPONSIBILITY FOR SAID WATER WELL. THE OIL OPERATOR REMAINS RESPONSIBLE FOR ALL PLUGS BELOW THE FRESH WATER ZONE.

_____ _____

SIGNATURE OF OWNER OR HIS AGENT DATE

R# 57046

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)

CYRPUS MT COAL
NAME AND ADDRESS OF LAST OPERATOR

E-MAIL ADDRESS OF LAST OPERATOR

INLAND GAS CO INC
NAME AND ADDRESS OF ORIGINAL OPERATOR

E-MAIL ADDRESS OF ORIGINAL OPERATOR

NAME AND ADDRESS OF COAL OPERATOR

E-MAIL ADDRESS OF COAL OPERATOR

PERMIT NO. 33727 ELEVATION 1150 COUNTY KNOTT TOTAL DEPTH 2028'

CARTER COORDINATES 1540 ☐ FNL ☒ FEL / ☒ FSL 1525 ☐ FWL SEC 23 LETTER L NUMBER 77

FARM OWNER (LESSOR) SCHMIDT, HENRY J WELL NUMBER 593

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 TO BE MAILED BY REGISTERED MAIL TO EACH COAL OPERATOR NAMED AT THEIR RESPECTIVE ADDRESSES.

AFFIDAVIT

STATE OF KENTUCKY,
COUNTY OF Perry) SS:

Chuck Lamb, 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 3-27-15 (PLUGGED DATE), RECORD OF WHICH IS LISTED BELOW OR SHOWN ON THE BACK OF THIS FORM.

(PLUG DESCRIPTION)

PLUGGED:	FROM 1980	TO 1763	WITH	70 sks CLASS A CEMENT
PLUGGED:	FROM 1736	TO 1635	WITH	32 sks CLASS A CEMENT
PLUGGED:	FROM 1202	TO 1090	WITH	70 sks CLASS A CEMENT
PLUGGED:	FROM 300	TO 0	WITH	170 sks CLASS A CEMENT
PLUGGED:	FROM	TO	WITH	
PLUGGED:	FROM	TO	WITH	
PLUGGED:	FROM	TO	WITH	
PLUGGED:	FROM	TO	WITH	

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

CASING SIZE 16"	INTERVAL 0-27'	SHOT OFF AT	BOTTOM OF CASING AT	27'
CASING SIZE 11 3/4"	INTERVAL 0-230'	SHOT OFF AT	BOTTOM OF CASING AT	230'
CASING SIZE 8 5/8"	INTERVAL 0-1818'	SHOT OFF AT	BOTTOM OF CASING AT	1818'

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

CASING SIZE _____ INTERVAL _____

CASING SIZE _____ INTERVAL _____

PERFD CASING @ 1730,1700,1185,1135,280,230,150,1(

Rodney Osborne
(OPTIONAL) SIGNATURE OF CONTRACTOR RESPONSIBLE FOR ABOVE PLUGGING

R & J WELL SERVICE INC
RODNEY OSBORNE — PRESIDENT
TITLE

Chuck Lamb
(REQUIRED) SIGNATURE OF OPERATOR RESPONSIBLE FOR ABOVE PLUGGING

GENERAL MGR.
TITLE

SWORN TO AND SUBSCRIBED BEFORE ME THIS 16 DAY OF April, 20 15

Mary Griggsby
NOTARY PUBLIC

MY COMMISSION EXPIRES: June 10, 2017

MARY GRIGSBY
NOTARY PUBLIC
STATE AT LARGE, KENTUCKY
COMM. #490124
MY COMMISSION EXPIRES JUNE 10, 2017

ALL BLANKS MUST BE COMPLETED. INCOMPLETE ADDIFAVITS WILL BE REJECTED.

FORM ED-38
(REV. 2/99)

CONTINUED

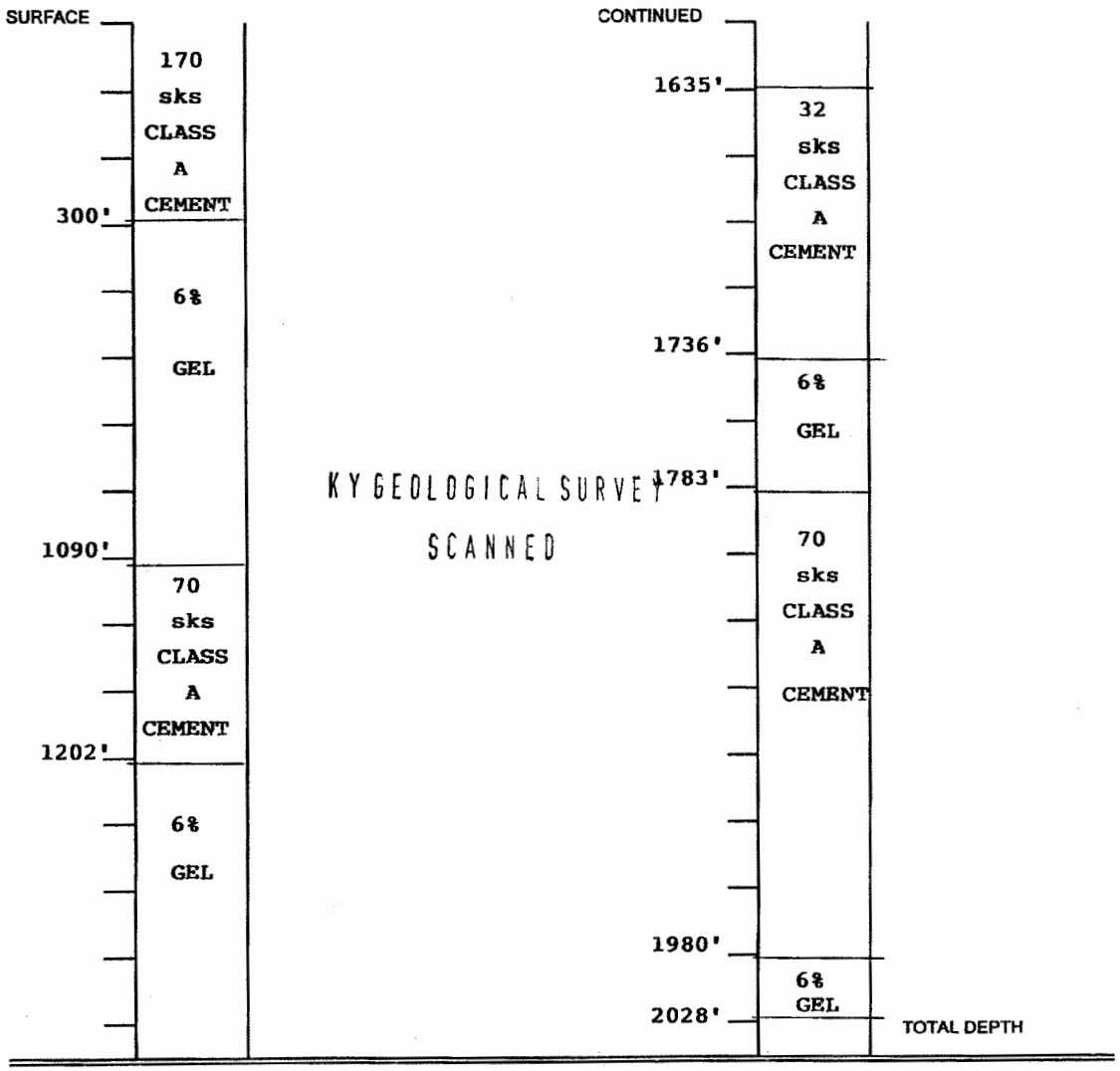
R#57046

CEMENT TABLE

HOLE SIZE	2"	3"	4"	5"	6 1/2"	8"	8 1/2"	8 3/4"	10"	12"	16"
NO. FT. FILLED PER SACK OF CEMENT*	45'	20'	11'	7'	4'	2 3/4'	2 1/2'	2 1/3'	2'	1'	1/2'

*1 CUBIC FOOT PER SACK

GRAPHICALLY SHOW BELOW THE LOCATION AND INTERVAL OF ALL PLUGS INSTALLED.



IF THE WELL IS TO BELEFT AS A DOMESTIC WATER WELL, PLUG ACCORDING TO THE INSPECTOR'S INSTRUCTIONS, COMPLETE THIS FORM ON BOTH SIDES AND HAVE THE FOLLOWING AFFIDAVIT SIGNED BY THE REAL ESTATE OWNER.

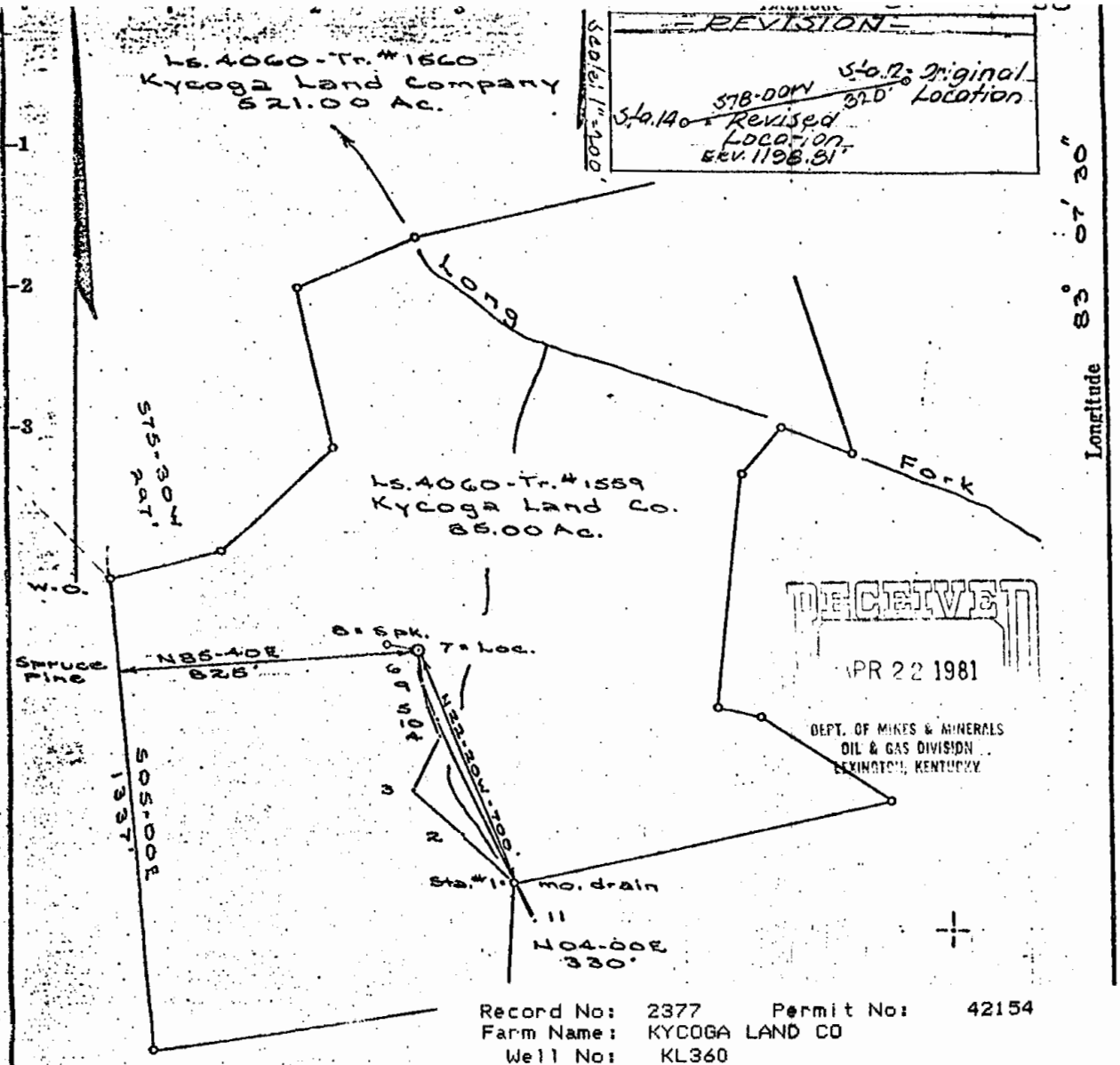
AFFIDAVIT

I, _____, THE OWNER OF THE REAL ESTATE ON WHICH THIS WELL WAS DRILLED, DESIRE THAT THE WELL BE LEFT OPEN FROM THE FRESH WATER ZONE TO THE SURFACE FOR USE AS A WATER WELL AND DO HEREBY ACCEPT THE FULL RESPONSIBILITY FOR SAID WATER WELL. THE OIL OPERATOR REMAINS RESPONSIBLE FOR ALL PLUGS BELOW THE FRESH WATER ZONE.

_____ SIGNATURE OF OWNER OR HIS AGENT

_____ DATE

FORM ED-38 (REV. 2/99)



Record No: 2377 Permit No: 42154
Farm Name: KYCOGA LAND CO
Well No: KL360
Operator: KEPCO, INC.
Location: 1625 FSL x 75 FEL 24- L-77
County: BREATHITT Elevation: 1199

Note: Approximately 260 feet of 9 6/8-inch casing will be cemented to surface as provided in K.R.S.-353.620.

New Location. ☒
Drill Deeper..... ☐
Abandonment..... ☐

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

B. C. Bradley
Registered Land Surveyor No. 782

N. 1660.20 E. 192.19 FSL 1625' FEL 75' 24-L-77

Company Kentucky West Va. Gas Co.
Address Ashland, Ky.
Farm Kycoga Land Company Tr. #1559
Tract Acres 86.00 Lease No. 4060-
Well (Farm) No. Serial No. KL-360
Elevation (Spirit Level) 1198.81'
Quadrangle NOBLE
County Breathitt District Caney Ext.
Engineer H.L. Baldridge P.E.
Engineer's Registration No. 8565
File No. Drawing No.
Date Aug. 18, 1980 Scale 1" = 400'

STATE OF KENTUCKY
DEPARTMENT OF MINES
OIL AND GAS DIVISION
LEXINGTON

WELL LOCATION MAP

FILE NO.

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

KT-1060

Record No: 2377 Permit No: 42154
Farm Name: KYCOGA LAND CO
Well No: KL360
Operator: KEPCO, INC
Location: 1625 FSL x 75 FEL 24- L-77
County: BREATHITT Elevation: 1199 . 4060
THE KENTUCKY GEOLOGICAL SURVEY DOES NOT WARRANT
THE ACCURACY OF INFORMATION ON THIS DOCUMENT

RECEIVED
AUG 28 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. 42154
Operator: KEPCO, Inc.
Farm Name: Kycoga Land Company
Well No.: KL360

TYPE OPERATION (CHECK ONE)
Re-Open ☐
New Well ☒
Workover ☐
Deepening ☐

LOCATION
County: Breathitt
Carter Coordinates: 24 (SECTION) L (LETTER) 77 (NUMBER) QUAD.
Footage from Section Lines: 1625 from S line 75' from W line

ELEVATION 1198.81 (ground) (D.F.) (K.B.)

TOTAL DEPTH
Driller's Log 2856' Geophysical Log

OPERATIONAL DATES
Date Commenced 6-08-81 Date Drilling Completed 6-13-81
Date Plugged (IF DRY HOLE) Date Placed in Operation (IF PRODUCING, INJECTION, ETC.)
Date Shut-in 7-23-81 (IF SHUT-IN PRODUCER OR OTHER TEMPORARILY SUSPENDED OPERATION)

DRILLING METHOD
Cable Tools from ____ to ____ (DEPTHS)
Rotary Tools conventional-from ____ to ____ air - from 0 to 2856 (DEPTHS)

CONTRACTOR(S): Co. Rotary 2 & Co. Rig 32
Address: ____

TYPE(S) OF GEOPHYSICAL LOGS RUN:
(Electrical, induction, sonic, gamma ray, neutron, density, etc.)
FDC, Temperature, SNP

TYPE OF COMPLETION (CHECK ONE)
Dry Hole ☐
Oil ☐
Gas ☒
Shut-in or Producing? Producing
Pressure Maintenance or Secondary Recovery: Water Injection ☐ Gas Injection ☐
Gas Storage: Injection-Extraction ☐ Observation ☐
SERVICE WELL: Saltwater Disposal ☐ Water Supply ☐ Observation Well ☐
Other: ____

INITIAL PRODUCTION
Natural ____ Date ____
After Treatment 73MCF-Br.Sh. Date 7-23-81

COMPLETION INTERVAL

Formation Name(s)	Interval(s)
Brown Shale	2510-2772
Big Lime	1986-1991

WELL TREATMENT (CHECK APPLICABLE BOXES)

			IN OPEN HOLE	THRU PERFORATION
Shot ____ qts.	____	Interval	☐	☐
Shot ____ qts.	____	Interval	☐	☐
Acid ____ gals.	____	Interval	☐	☐
Acid 191 Bbl.	1986-1991	Interval	☐	☒
Fracture 300 Bbl. 60,000 lbs/sand	2510-2772	Interval	☐	☒
Fracture ____ gals. ____ lbs/sand	____	Interval	☐	☐

Casing Size	Hole Size	Depth	Sks Cement	Csg Pulled
13-5/8	15-1/2	14'	-	-
9-5/8	12-1/2	289'	85	-
6-5/8	8-3/4	1743	30	1300'
4-1/2	6-1/4	2822	160	-
2	-	2763	-	-

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 8-18-81

Signed E. R. Minns
Title E. R. Minns, Chief 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)
0	10	Sand
10	40	Slate
40	90	Sand
90	95	Coal
95	177	Sand
177	262	Slate
262	333	Sand
333	380	Slate
380	460	Sand
460	463	Coal
463	500	Sand
500	632	Slate
632	634	Coal
634	698	Slate
698	738	Sand
738	1050	Slate & Shells
1050	1075	Sand
1075	1150	Slate
1150	1515	Sand
1515	1565	Slate
1565	1634	Sand
1634	1638	Coal
1638	1671	Slate
1671	1743	Sand
1743	1835	Slate
1835	1766	Little Lime
1866	1870	Pencil Cave
1870	2040	Big Lime
2040	2105	Injun Sand
2105	2373	Weir
2373	2780	Brown Shale
2780	2846	White Slate
2846	2856	Corniferous
2856		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)
		Water 25'
		Water 700'

Record No: 2377 Permit No: 42154
Farm Name: KYCOGA LAND CO
Well No: KL360
Operator: KEPCO, INC
Location: 1625 FSL x 75 FEL 24- L-77
County: BREATHITT Elevation: 1199

Request No. 4:

Refer to Starfire's responses to Siting Board Staff's First Request for Information, Item 2:

a. Confirm whether KY 1087 is currently accessible for site access for vehicles.

b. If KY 1087 is currently inaccessible:

(1) Provide a detailed description of the current state of KY 1087.

(2) Provide a detailed description of the process to make KY 1087 usable as a site access point. Include in the description the projected economic cost.

Response:

a. Starfire confirms that KY 1087 is currently accessible for site access for vehicles. Please see attached for email confirmation of KY 1087's accessibility from KYTC Division 10 based in Jackson, Kentucky, and photos of KY 1087 taken in July 2025.

b. See the Response to Post-Hearing Request 4(a) above.

Responding Witness: Brian Patton

Outlook

Fw: Perry Co. Road Classifications

From Brian Patton <brian.patton@brightnightpower.com>
Date Wed 7/2/2025 11:27 AM
To Jackson Doughty <jackson@brightnightpower.com>; David Gil <david.gil@brightnightpower.com>

See KYDOT email on KY 1087

Get Outlook for iOS

From: Back, Darren D (KYTC-D10) <Darren.Back@ky.gov>
Sent: Wednesday, July 2, 2025 10:45:12 AM
To: Brian Patton <brian.patton@brightnightpower.com>
Subject: RE: Perry Co. Road Classifications

Brian,

Yes, KY 1087 has been recently resurfaced and is open and accessible.

Thanks,

TEAM KENTUCKY TRANSPORTATION CABINET

Darren Back, PE
Transportation Engineer Supervisor
District 10 – Planning Section
Department of Highways
473 Highway 15 S
Jackson, Kentucky 41339
(502) 764-0003 OFFICE
(606) 207-5562 MOBILE

From: Brian Patton <brian.patton@brightnightpower.com>
Sent: Tuesday, July 1, 2025 8:35 AM
To: Back, Darren D (KYTC-D10) <Darren.Back@ky.gov>; Brian Patton <dexterbpatton@gmail.com>
Subject: Re: Perry Co. Road Classifications

Darren,

Hope you are well and ready for the July 4th Holiday. If you remember I'm working on answering questions by the KY Siting Board on the Starfire Solar Project in Perry, Knot and Breathitt Counties. You had answered several questions for us in regards to the roads in the area and that email is below. One of their questions is the accessibility of KY Hwy 1087. Could you give me an update on that road? Just simple statement as to its condition and is it assessable daily.

Sincerely,
Brian Patton
Brightnight Power
502-692-9447

From: Back, Darren D (KYTC-D10) <Darren.Back@ky.gov>
Sent: Thursday, March 20, 2025 2:15 PM
To: Brian Patton <brian.patton@brightnightpower.com>; Brian Patton <dexterbpatton@gmail.com>
Subject: RE: Perry Co. Road Classifications

Brian,

I've reviewed the questions regarding the roadways around the Starfire Project and compiled the following information:

1. **Road Width and Weight Limits:**
   - **KY 80** (AAA route) – 4-lane, 12' lanes, 10' paved shoulders, 14' raised mountable median, 80,000 lb max load.
   - **KY 476** (AAA route, MP 1.905–22.275) – 20' lane width, 0–3' paved shoulders, 80,000 lb max load.
   - **KY 1087** (AAA route, MP 0–0.8) – 20' pavement width, no paved shoulders, 80,000 lb max load.
   - **Starfire Access Roads** – No available information.
2. **Current Road Conditions:**
   - **KY 80** – Pavement in good condition.
   - **KY 476** – Good condition overall, with some pavement breaks in certain areas.
   - **KY 1087** – Fair condition, with visible cracking and some edge breaks.
3. **Bridges and Culverts:**
   - **097B00054N** – Culvert on KY 1087 at MP 0.7, 32' wide, no weight limit.
   - **097B00144N** – Bridge on KY 476 at MP 12.43, 26.25' wide, no weight limit.
4. **Road and Bridge Upgrades:**
   - Unknown at this time until more details about load weights are provided.
5. **Load Weights for Deliveries:**
   - The company will need to provide details on expected load weights for cement and water trucks, heavy equipment, gravel, panels, inverters, and the transformer.
6. **Substation Transformer Weight and Delivery Truck Class:**
   - The company will need to provide this information.
7. **Permit Requirements:**
   - Kentucky will require some special permits for oversize/overweight deliveries.
8. **Traffic Stoppages:**
   - The company will need to determine if stoppages will be necessary, as well as expected locations, frequency, and duration.
9. **Directional Map:**
   - The company will need to provide a one-page map detailing delivery routes, access points, bridges, and structures.

Let me know if you need any further clarification. Happy to assist as needed.

Thanks,
Darren

From: Brian Patton <brian.patton@brightnightpower.com>
Sent: Tuesday, March 18, 2025 10:20 AM

To: Brian Patton <dexterbpatton@gmail.com>; Back, Darren D (KYTC-D10) <Darren.Back@ky.gov>
Subject: Re: Perry Co. Road Classifications

Darren,

I will send a map shortly.

From: Brian Patton <dexterbpatton@gmail.com>
Sent: Tuesday, March 18, 2025 8:59 AM
To: Back, Darren D (KYTC-D10) <Darren.Back@ky.gov>; Brian Patton <brian.patton@brightnightpower.com>
Subject: Re: Perry Co. Road Classifications

Darren,

Attached is a list of questions from the Kentucky Siting Board in regard to the roadways around the Starfire Project in Breathitt, Knott and Perry Counties. I could really use some help answering these.

The projected rote to the site is construction materials and manpower will enter the site off of HWY80 onto KY rt 426 down troublesome creek then turning onto rt 1087 (Balls Fork) traveling about ¾ and turning onto the Starfire Property.

1. Provide the width and weight limit ratings of all roads proposed to be used during the delivery and construction phase of the project.

2. Provide the current condition of all roads expected to be used during the delivery and construction phase of the project. Case No. 2024-00255 -2-

3. Provide the width and weight limit ratings of all bridges and culverts within a two-mile radius of the project.

4. Describe any repairs or upgrades that will need to be made to any roads prior to the delivery and construction phase of the project.

5. Describe any repairs or upgrades that will need to be made to any bridges or culverts prior to the delivery and construction phase of the project.

6. Provide the maximum expected load weights for each type of delivery truck, including cement and water trucks, heavy equipment, gravel for access roads, panels, inverters, and the transformer.

7. Provide the estimated weight of the project's required substation transformer and the truck class necessary for its delivery.

8. Explain whether any oversize or overweight deliveries will require special permits from the County Road Departments or the Kentucky Department of Transportation.

9. Explain whether any traffic stoppages will be necessary to accommodate large truck deliveries for the project and/or for constructing the project transmission line. If yes, provide the expected locations, frequency, and length of those stoppages.

10. Provide a one-page directional map showing highlighted anticipated delivery routes for the project. Include on the map: access roads, access points, existing roads, bridges, electric

generation components, and all structures within two miles of the project.

From: Back, Darren D (KYTC-D10) <Darren.Back@ky.gov>
Sent: Monday, March 17, 2025 11:44 AM
To: dexterbpatton@gmail.com <dexterbpatton@gmail.com>; brian.patton@brightnightpower.com <brian.patton@brightnightpower.com>
Subject: Perry Co. Road Classifications

Brian,
Thank you for stopping by today. We always appreciate when businesses take the initiative to ask questions and ensure compliance with legal requirements.
Based on my research, here is the information I found in our databases:

- **2024 Annual Designation of the Extended Weight Coal or Coal By-Products Haul Road System** (attached)
- **KY 1087 Truck Weight Class:** (attached spreadsheet)
  - AAA (80,000 lbs) from MP 0 – 0.8
  - A (44,000 lbs) from MP 0.8 – 2.976
- **Overweight Over-Dimensional Permits:**
  - Permit Information and Instructions

If you need any additional information, please don't hesitate to reach out. My contact details are below.
Best regards,

TEAM KENTUCKY TRANSPORTATION CABINET

Darren Back, PE
Transportation Engineer Supervisor
District 10 – Planning Section
Department of Highways
473 Highway 15 S
Jackson, Kentucky 41339
(502) 764-0003 OFFICE
(606) 207-5562 MOBILE

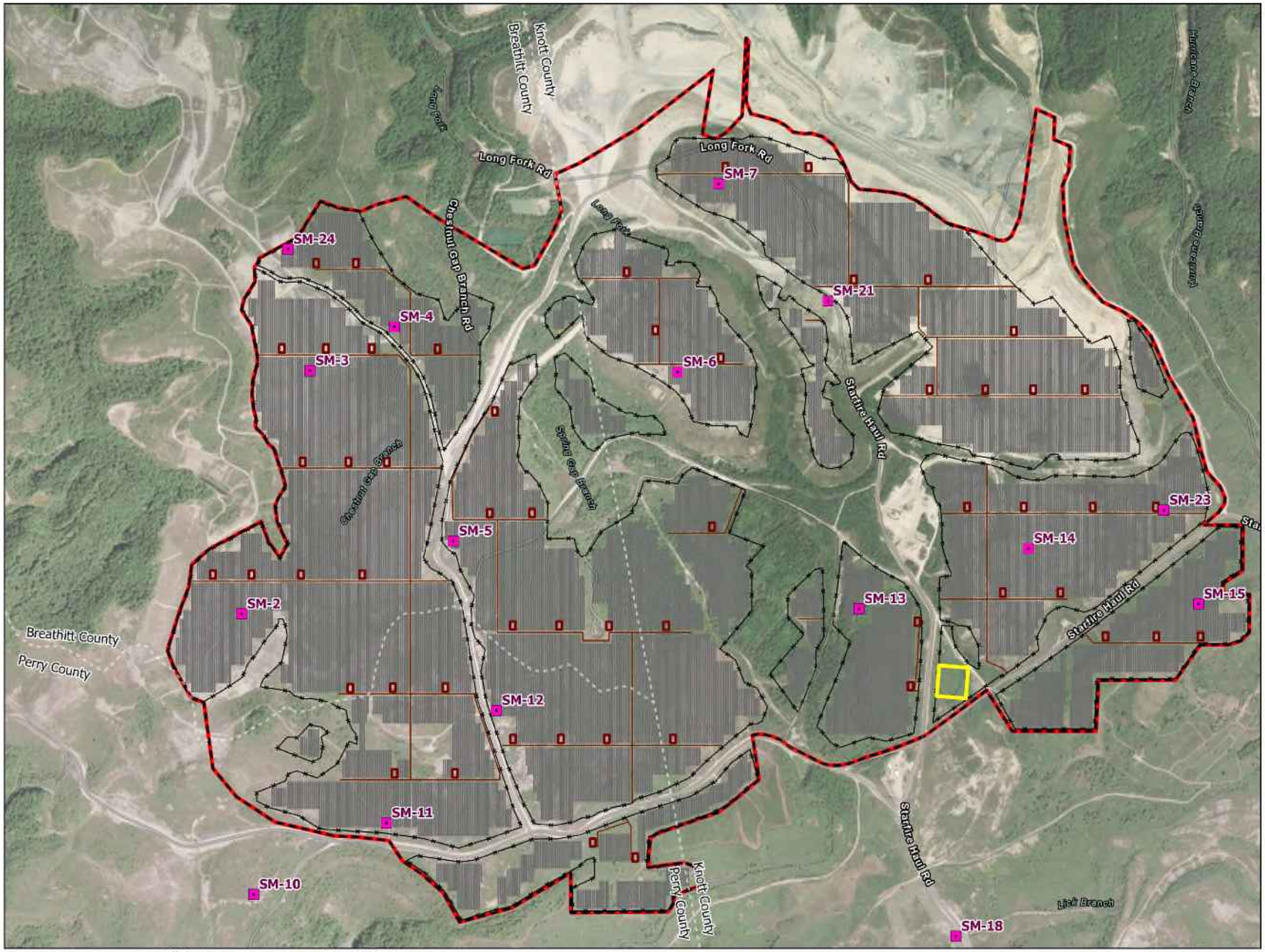
Request No. 5:

Provide any and all studies concerning subsidence at the project site.

Response:

Subsidence studies have not been conducted for the Project site because the Starfire mine is a surface mine, not an underground mine, and subsidence occurs only in connection with underground mining operations. The efforts to test soil conditions described during the June 18, 2025 evidentiary hearing were monuments erected to test for differential settlement occurring onsite. Differential settlement is an event where soil compacts over time after closure of a surface mine and, in general, the surface grade does not substantially move or sink after a surface mine is reclaimed. Please see attached for a map of settlement monuments located onsite and a spreadsheet generated from the data collected detailing the movement of soil at the settlement monuments. As shown in the attached spreadsheet, the average median change in the soil height from May 2024 to June 2025 has been approximately 0.15 feet or approximately 1.8 inches.

Responding Witness: Brian Patton



Starfire Solar Project
Knott, Perry, and Breathitt Counties, Kentucky

Settlement Monuments

LEGEND

- Settlement Monument (June 2025)
- Substation
- Inverters
- Proposed Fenced Area
- Access Road
- Proposed Solar Panels
- Proposed Project Area

Data Sources:
ESRI Aerial Imagery 2024; BrightNight 2025

Prepared for: STMOBn, LLC
Prepared by: Tetra Tech GIS Team (NB)
Updated: 7/8/2025

Spatial Reference
NAD 1983 StatePlane Kentucky FIPS 1600 Feet

5/31/2024 to 6/20/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	0.000	-0.044	-0.049
2	0.067	0.095	0.004
3	-0.002	-0.025	-0.236
4	-0.005	-0.001	-0.050
5	0.035	0.024	-0.239
6	-0.008	0.002	-0.027
7	0.020	-0.060	0.113
8	-0.058	0.026	0.018
9	-0.042	-0.011	-0.075
10	0.134	0.113	-0.164
11	0.087	0.083	-0.142
12	0.016	0.004	0.013
13	0.042	-0.006	-0.048
14	0.046	-0.019	0.014
15	0.038	-0.017	-0.065
16	0.009	-0.037	-0.131
17	-0.001	-0.044	-0.160
18	-0.049	0.060	-0.042
19	-0.019	0.024	0.009
20	-0.031	0.007	0.008
21	-0.054	-0.027	0.042
23	0.128	-0.078	0.009
24	0.034	-0.004	0.013

5/31/2024 to 7/24/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	0.009	-0.046	-0.011
2	0.073	0.092	-0.048
3	0.055	0.137	-0.107
4	0.019	0.030	-0.071
5	-0.033	-0.001	-0.181
6	-0.038	0.012	0.027
7	-0.020	0.018	0.177
8	-0.044	0.009	-0.033
9	-0.014	-0.021	-0.058
10	0.072	0.004	0.134
11	0.008	-0.027	0.009
12	0.029	0.026	0.067
13	0.043	-0.018	-0.022
14	0.037	-0.010	0.055
15	0.046	-0.020	0.040
16	0.013	-0.021	-0.042
17	0.012	0.015	-0.061
18	-0.020	0.033	-0.057
19	-0.007	0.015	-0.027
20	-0.036	0.002	-0.008
21	-0.008	0.013	0.047
23	0.133	-0.066	0.050
24	0.081	0.108	-0.060

5/31/2024 to 8/19/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	0.029	-0.060	-0.054
2	0.072	0.048	0.025
3	0.096	0.067	-0.046
4	0.096	0.066	-0.042
5	0.074	0.084	-0.125
6	-0.043	-0.020	0.018
7	-0.016	-0.003	0.239
8	-0.089	-0.013	0.017
9	-0.041	0.000	-0.059
10	0.134	0.052	-0.157
11	0.098	0.027	-0.140
12	0.109	0.056	-0.040
13	0.003	-0.019	0.037
14	-0.035	0.000	0.038
15	-0.045	0.009	0.041
16	0.000	0.030	-0.092
17	-0.009	0.036	-0.113
18	-0.063	0.025	-0.039
19	0.009	0.023	0.016
20	-0.042	-0.001	0.039
21	-0.104	-0.009	-0.026
23	0.040	-0.016	0.002
24	0.120	0.040	0.001

5/31/2024 to 9/16/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	0.002	-0.052	-0.034
2	0.120	0.068	-0.073
3	0.081	0.112	-0.102
4	0.095	0.091	-0.131
5	0.069	0.102	-0.150
6	-0.017	0.002	0.008
7	-0.007	-0.002	0.225
8	-0.166	-0.030	0.019
9	-0.052	-0.055	-0.048
10	0.132	0.098	-0.144
11	0.086	0.069	-0.147
12	0.097	0.097	-0.082
13	0.046	-0.009	-0.014
14	-0.050	0.047	0.088
15	0.002	0.009	0.058
16	0.006	0.017	-0.083
17	0.009	0.054	-0.053
18	-0.003	0.024	-0.023
19	0.028	0.029	-0.004
20	0.013	0.020	0.001
21	-0.098	0.003	0.010
23	0.048	0.000	0.041
24	0.141	0.088	-0.073

5/31/2024 to 10/28/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.005	-0.049	-0.069
2	0.092	0.036	-0.066
3	0.070	0.072	-0.114
4	0.090	0.086	-0.114
5	0.079	0.087	-0.157
6	0.101	0.071	-0.075
7	0.081	0.003	0.231
8	-0.030	-0.001	-0.026
9	-0.034	-0.025	-0.095
10	0.120	0.081	-0.165
11	0.063	0.047	-0.148
12	0.104	0.073	-0.111
13	0.010	0.012	0.032
14	0.047	0.023	0.093
15	0.052	0.012	-0.005
16	0.018	0.022	-0.102
17	-0.002	0.054	-0.095
18	-0.044	0.028	-0.040
19	-0.021	0.043	-0.025
20	-0.057	0.006	0.068
21	-0.034	0.023	0.022
23	0.146	-0.054	-0.008
24	0.131	0.080	-0.089

5/31/2024 to 10/28/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.040	-0.022	-0.044
2	0.069	0.088	-0.071
3	0.037	0.115	-0.128
4	-0.042	0.021	0.046
5	0.038	0.133	-0.181
6	-0.020	0.064	0.050
7	-0.027	0.081	0.260
8	-0.250	-0.069	-0.017
9	-0.345	-0.162	-0.047
10	0.080	0.096	-0.156
11	0.015	0.083	-0.155
12	0.075	0.120	-0.098
13	-0.017	0.058	-0.006
14	-0.080	0.048	0.105
15	-0.057	0.026	-0.001
16	-0.033	0.013	-0.106
17	0.036	0.020	-0.084
18	-0.066	-0.004	-0.048
19	-0.040	0.081	-0.002
20	-0.008	0.011	0.014
21	-0.107	0.010	0.007
23	0.012	-0.023	0.010
24	0.090	0.100	-0.107

5/31/2024 to 12/20/2024 comparison

	N (ft)	E(ft)	Z (ft)
1	0.032	-0.079	-0.045
2	0.096	0.087	-0.084
3	0.037	0.115	-0.087
4	0.129	0.070	-0.093
5	0.051	0.113	-0.166
6	0.073	0.104	-0.063
7	0.097	0.119	0.081
8	-0.054	0.019	-0.023
9	-0.100	0.003	-0.085
10	0.161	0.044	-0.150
11	0.072	0.072	-0.160
12	0.074	0.047	-0.102
13	0.092	0.057	-0.161
14	0.053	0.029	0.102
15	0.089	-0.007	-0.029
16	0.032	0.037	-0.122
17	0.021	0.061	-0.129
18	-0.026	0.082	-0.028
19	-0.033	-0.002	0.003
20	-0.080	0.057	0.010
21	0.039	0.132	-0.121
23	0.176	-0.027	-0.009
24	0.079	0.091	-0.083

5/31/2024 to 1/24/2025 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.119	-0.057	-0.077
2	0.005	0.042	-0.103
3	-0.079	0.094	-0.145
4	0.019	0.057	-0.139
5	-0.031	0.132	-0.212
6	-0.052	0.083	-0.111
7	-0.025	0.080	0.103
8	-0.074	0.005	-0.046
9	-0.095	-0.007	-0.141
10	0.053	0.050	-0.177
11	-0.025	0.050	-0.156
12	-0.034	0.106	-0.120
13	0.000	0.113	0.008
14	-0.033	0.070	0.124
15	0.071	0.018	-0.003
16	-0.044	0.016	-0.081
17	-0.044	0.138	-0.045
18	-0.004	0.094	-0.043
19	-0.023	0.105	0.017
20	-0.004	0.106	0.030
21	-0.061	0.125	-0.072
23	0.096	0.068	0.013
24	-0.029	0.098	-0.129

5/31/2024 to 2/26/2025 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.017	-0.071	-0.034
2	0.056	0.019	-0.112
3	-0.019	0.085	-0.150
4	0.060	0.058	-0.172
5	-0.002	0.086	-0.251
6	0.090	0.067	-0.090
7	0.062	0.106	0.116
8	**	**	**
9	**	**	**
10	0.109	0.062	-0.182
11	0.001	0.075	-0.173
12	0.067	0.049	-0.150
13	0.001	-0.040	-0.013
14	-0.001	0.011	0.119
15	0.067	-0.049	-0.025
16	-0.047	-0.029	-0.101
17	0.027	0.047	-0.122
18	-0.051	0.079	-0.043
19	-0.001	-0.011	0.007
20	-0.065	0.061	0.022
21	0.016	0.173	-0.022
23	0.155	-0.046	-0.041
24	0.038	0.091	-0.152

5/31/2024 to 3/21/2025 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.034	-0.031	-0.082
2	0.059	0.066	-0.111
3	0.051	0.099	-0.121
4	0.067	0.090	-0.158
5	0.041	0.113	-0.212
6	0.079	0.127	-0.087
7	0.080	0.141	0.203
8	-0.046	-0.049	-0.084
9	-0.042	-0.038	-0.135
10	0.084	0.088	-0.198
11	0.051	0.069	-0.175
12	0.068	0.086	-0.113
13	0.013	-0.002	-0.005
14	0.018	0.008	0.187
15	-0.008	0.017	0.009
16	0.000	-0.022	-0.099
17	0.016	0.016	-0.126
18	-0.030	0.031	-0.038
19	0.000	0.043	0.004
20	-0.056	0.036	-0.019
21	-0.018	0.164	0.021
23	0.148	-0.091	0.004
24	0.136	0.111	-0.127

5/31/2024 to 4/18/2025 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.039	-0.041	-0.029
2	0.066	0.057	-0.117
3	0.031	0.105	-0.118
4	0.057	0.097	-0.143
5	-0.019	0.057	-0.027
6	-0.005	0.034	0.048
7	0.001	0.073	0.372
8	-0.036	-0.023	-0.048
9	-0.047	-0.033	-0.048
10	0.072	0.067	-0.212
11	0.023	0.071	-0.199
12	0.021	0.020	0.000
13	-0.005	0.023	0.011
14	-0.038	0.060	0.210
15	-0.035	0.039	0.033
16	-0.005	0.019	-0.116
17	-0.025	0.023	-0.049
18	-0.023	0.034	-0.057
19	-0.001	0.061	0.044
20	0.012	0.021	0.061
21	-0.085	0.079	0.221
23	0.081	-0.016	0.042
24	0.105	0.112	-0.126

5/31/2024 to 5/20/2025 comparison

	N (ft)	E(ft)	Z (ft)
1	0.063	-0.141	-0.098
2	0.067	0.073	-0.125
3	0.034	0.118	-0.124
4	0.059	0.096	-0.145
5	0.011	0.100	-0.240
6	0.084	0.088	-0.131
7	0.029	0.115	0.161
8	-0.019	-0.018	-0.285
9	-0.042	-0.026	-0.407
10	0.089	0.074	-0.198
11	0.033	0.065	-0.230
12	0.045	0.085	-0.140
13	0.032	0.029	-0.208
14	0.000	-0.008	0.010
15	0.056	-0.013	-0.245
16	0.019	-0.001	-0.311
17	0.007	0.012	-0.291
18	0.007	0.038	-0.235
19	0.030	0.039	-0.192
20	0.004	0.049	-0.173
21	-0.046	0.036	-0.015
23	0.137	-0.075	-0.218
24	0.093	0.113	-0.133

5/31/2024 to 6/25/2025 comparison

	N (ft)	E(ft)	Z (ft)
1	-0.057	-0.016	-0.061
2	0.055	0.083	-0.155
3	0.042	0.126	-0.215
4	0.012	0.110	-0.157
5	0.012	0.079	-0.297
6	0.065	0.117	-0.152
7	0.052	0.109	0.175
8	-0.094	-0.034	0.174
9	0.025	-0.018	-0.442
10	0.072	0.100	-0.217
11	0.022	0.056	-0.233
12	0.071	0.102	-0.168
13	0.066	-0.037	-0.065
14	-0.017	0.001	0.183
15	0.068	-0.020	-0.058
16	-0.022	-0.041	-0.211
17	-0.059	0.012	-0.056
18	-0.014	-0.043	-0.044
19	0.032	-0.033	0.042
20	0.002	-0.040	0.092
21	-0.066	0.177	0.034
23	0.117	-0.074	-0.027
24	0.084	0.069	-0.114

**Road to SM8 and SM9 cut off by Liberty Management.

Request No. 6:

Explain what mitigation measures will be implemented to address any subsidence concerns.

Response:

Please refer to the Response to Post-Hearing Request No. 5. No mitigation measures are proposed related to subsidence concerns because subsidence does not occur on reclaimed surface mines and there has not been any deep, underground mining under the Project site. Additionally, no mitigation measures are anticipated for differential settlement due to negligible change in soil height.

Responding Witness: Brian Patton

Request No. 7:

Explain whether the entire site will need to be graded, or only selected portions. If only selected portions, provide a site map with those portions specifically delineated.

Response:

The Project intends to grade only selected portions of the site. The specific areas of the site requiring grading will be determined by the EPC company prior to commencing construction.

Responding Witness: Colin Cannon

Request No. 8:

Refer to the hearing video testimony of Brian Patton, 10:08:45 a.m.:

a. Explain what "department" is referenced that will monitor the vegetative growth.

b. Explain whether the entire site will be seeded prior to the two-year growing cycle or only select areas.

Response:

a. The department charged with monitoring vegetative growth is the Kentucky Department of Natural Resources, Office of Surface Mining.

b. The verbal description at 10:08:45 a.m. in the hearing video testimony was a description of the typical reclamation process specific to a pastureland as a post mining land use (PMLU), most of which has already been completed by the Starfire mining operation. The two-year growing cycle associated with the pastureland PMLU is not applicable to the commercial/industrial PMLU intended for this solar project. The portions of the Project site which will not be graded will maintain the existing grass seed mixture, while seeding areas within the limits of disturbance will be defined and vegetated in accordance with the Project's Stormwater Pollution Prevention Plan (SWPPP). As noted in paragraph 13 of the Project application, vegetative ground cover will be established on the site with a target of 90% coverage of the entire site following construction activities.

Responding Witness: Brian Patton

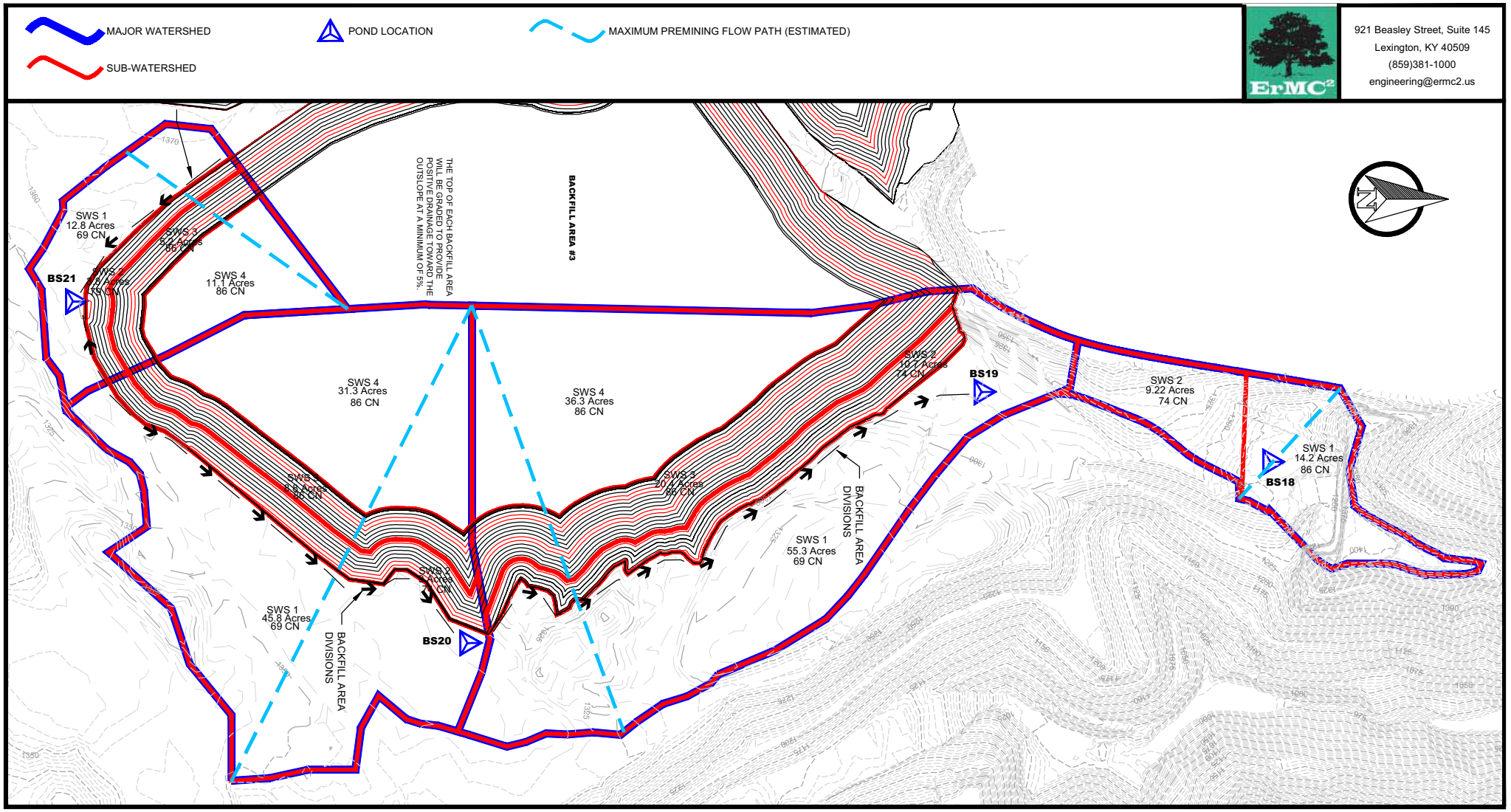
Request No. 9:

Provide a Stormwater Pollution Prevention Plan (SWPPP) for the project. If one does not exist, provide an existing SWPPP used by the current mining company on the site, if available.

Response:

A Stormwater Pollution Prevention Plan (SWPPP) does not currently exist for the Project and will be created by the EPC near the commencement of construction. Separately, the mining company has filed its own existing permits, which include stormwater control system designs included in its Office of Surface Mining Reclamation Act application submitted to the Kentucky Division of Mine Permits (KYDMP). The KYDMP maintains the Surface Mining Information System, which is a database cataloging mining-related permitting documents, and includes access to the Kentucky Department of Natural Resources' "DocTree" (available at http://doctree.ky.gov/DocTree.web/) to view these documents. The mining operation's stormwater control drawings to the Project site have been downloaded from DocTree and are attached hereto, and includes depictions of drainage ponding and drainage facilities, as well as mapping of watersheds and subwatersheds.

Responding Witness: Brian Patton



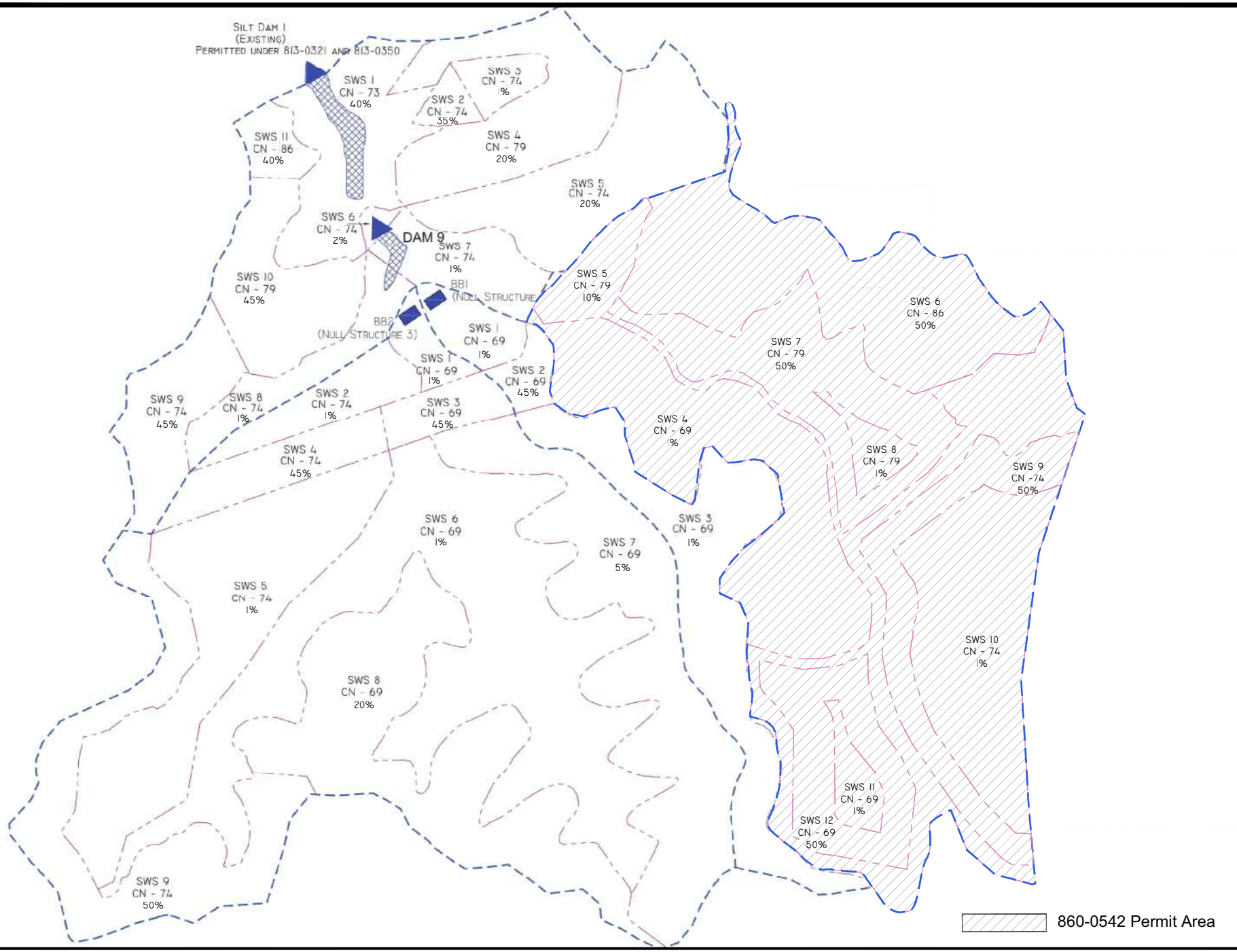
I, _____, _____, _____, HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IN ACCORDANCE WITH 405 KAR 7:040, SECTION 10, THAT THIS DOCUMENT IS CORRECT AS DETERMINED BY ACCEPTED ENGINEERING PRACTICES AND INCLUDES ALL THE INFORMATION REQUIRED OF IT BY KRS CHAPTER 350 AND KAR TITLE 405.

0' 500' 1000'

Drawn by:	Date: 11/4/2015
Job #:	Scale: 1"=500'

File Location:
T:\007 Pine Branch\001 ICG Hazard\860-0542 (East Long Fk)\MA2\CADD_Final\860-0542 MA 2 SWS

ICG HAZARD, LLC
860-0542 MA #2
POND WATERSHEDS



Environmental Resources Management Consulting Company, LLC

LEXINGTON LOCATION
921 Beasley Street, Suite 145
Lexington, KY 40509
(859) 381-1000

MADISONVILLE LOCATION
(270) 452-2740

HAZARD LOCATION
(606) 436-1111

Website: www.ermc2.us

0' 600' 1200'

Drawn by:

Date: 4/10/2015

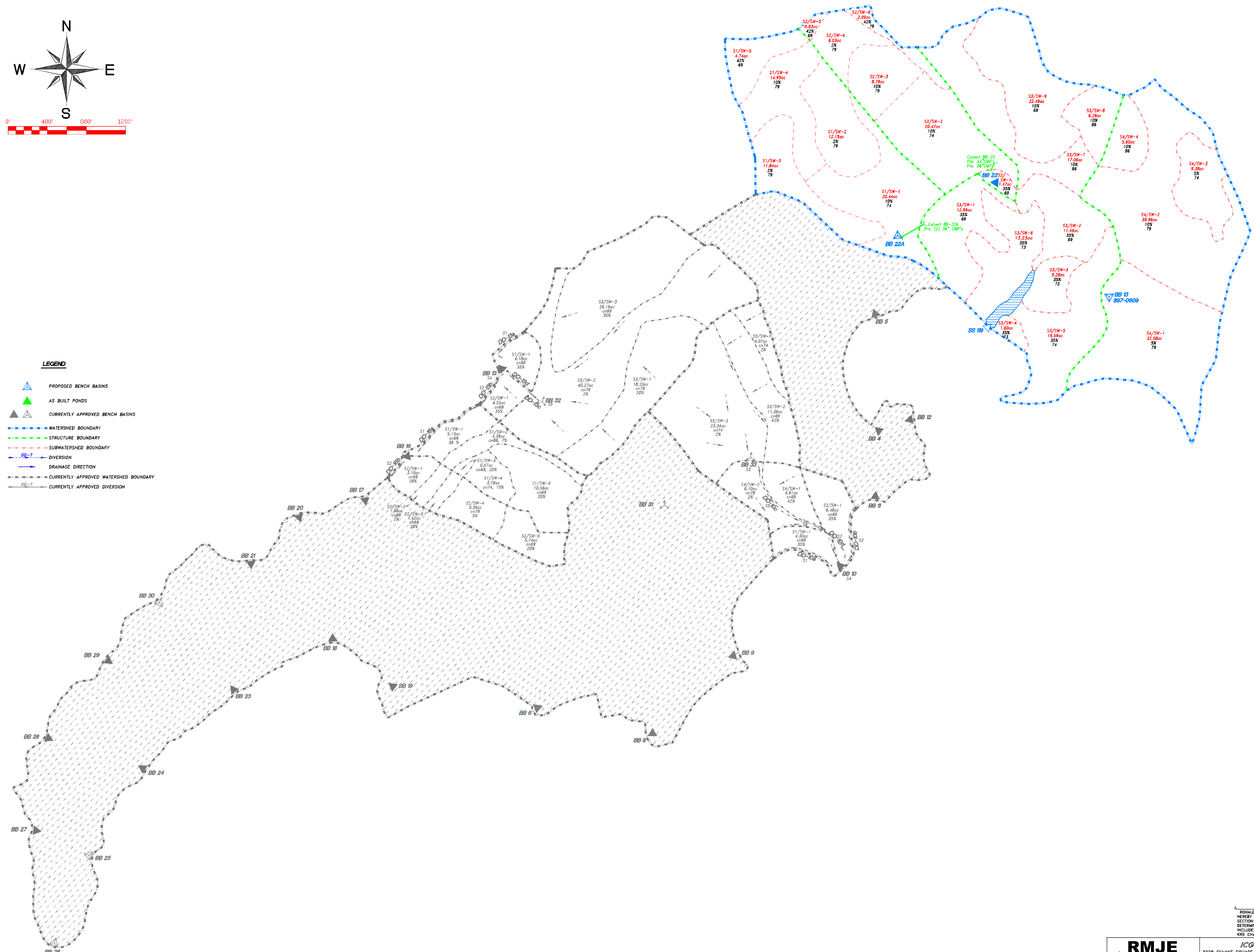
Job #:

Scale: 1"= 600'

File Location:

I, _____, _____, 04/10/15
HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IN ACCORDANCE WITH 405 KAR 7:040, SECTION 10, THAT THIS DOCUMENT IS CORRECT AS DETERMINED BY ACCEPTED ENGINEERING PRACTICES AND INCLUDES ALL THE INFORMATION REQUIRED OF IT BY KRS CHAPTER 350 AND KAR TITLE 405.

ICG HAZARD, LLC
813-0412
DAM 1 SUBWATERSHED MAP



I, _____________________, 14,238, __________
RONALD M. JOHNSON, P.E. LIC. NO. DATE
HEREBY CERTIFY, IN ACCORDANCE WITH 405 KAR 7:04E, SECTION 10 THAT THIS DOCUMENT IS CORRECT AS DETERMINED BY ACCEPTED ENGINEERING PRACTICES AND INCLUDES ALL THE INFORMATION REQUIRED OF IT BY KRS CHAPTER 350 AND KAR TITLE 405.

RMJE
R.M. JOHNSON ENGINEERING, INC.

3376 Rt. 550 East P.O. Box 444 Hindman, KY 41822 (606)785-5926	3213 Summit Square Place Suite 100 Lexington, KY 40509 (859)543-1256

ICG HAZARD, LLC.
3228 SUMMIT SQUARE PLACE, SUITE 180, LEXINGTON, KY 40509

DRAINAGE MAP

PERMIT NO.	897-0583 MI-14	DRAWN BY: J.B.S.	REVIEWED BY: F.D.P.	DRAWING FILENAME: DRAIN_MAP_0583MI-14
DATE:	2/18/2016	SCALE: AS SHOWN	LAST REVISED: 07/26/2016	SHEET: 1 OF 1

MAJOR WATERSHED

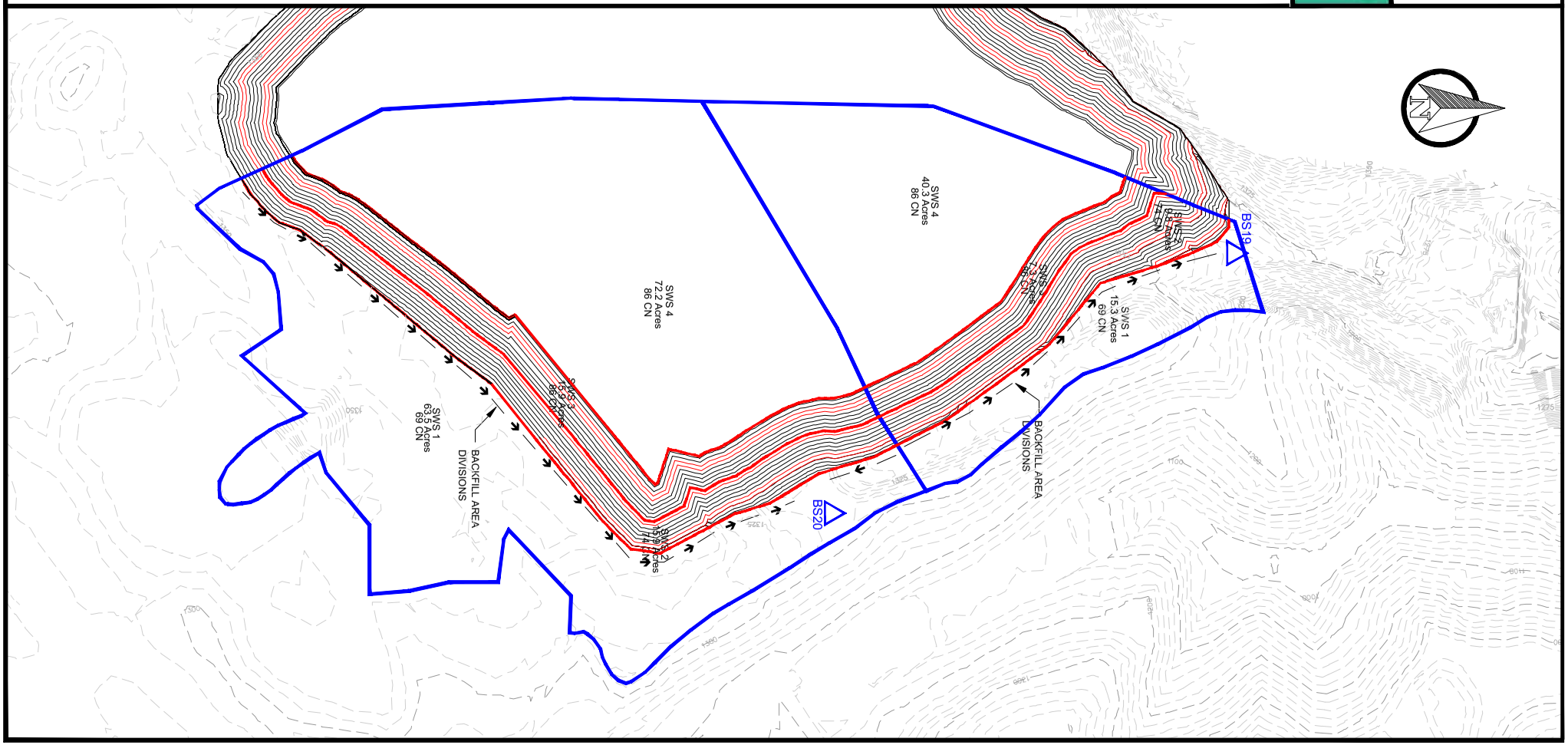
SUB-WATERSHED

POND LOCATION

MAXIMUM PREMINING FLOW PATH (ESTIMATED)

ErMC²

921 Beasley Street, Suite 145
Lexington, KY 40509
(859)381-1000
engineering@ermc2.us



I, _____, _____, 08/29/16,
HEREBY CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IN ACCORDANCE WITH 405 KAR 7:040, SECTION 10, THAT THIS DOCUMENT IS CORRECT AS DETERMINED BY ACCEPTED ENGINEERING PRACTICES AND INCLUDES ALL THE INFORMATION REQUIRED OF IT BY KRS CHAPTER 350 AND KAR TITLE 405.

0' 500' 1000'

Drawn by:	Date: 7/14/2016
Job #:	Scale: 1"=500'

File Location:
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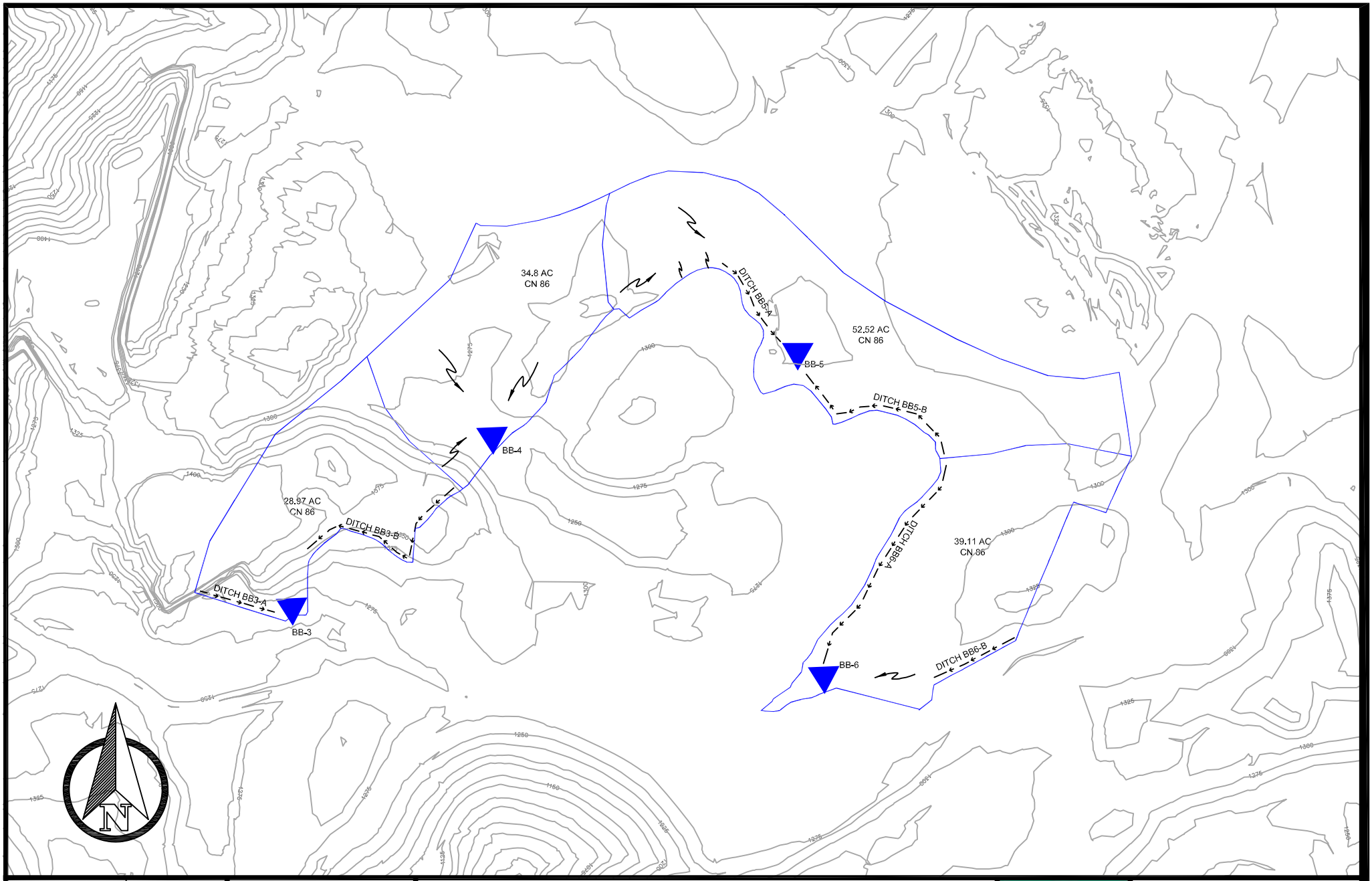
ICG HAZARD, LLC
860-0542 AM #3
POND WATERSHEDS



Drawn:	Date: 6/26/15
Job:	Scale: 1"= 800'
Drawing: 8130412_MI13_SWS	

0' 800'

ICG HAZARD, LLC
813-0412 MI13
SUBWATERSHED MAP
BB-3, BB-4, BB-5 & BB-6

ErMC²

921 Beasley Street, Suite 145
Lexington, KY 40509
(859)381-1000
engineering@ermc2.us

Request No. 10:

Explain how the project will mitigate slop failure.

Response:

Starfire interprets this question as requesting information on plans to mitigate slope failure. The Project's Geotechnical Study details design considerations which will be incorporated into the Project's construction engineering designs along with future site-specific, construction-grade geotechnical analyses. The Geotechnical Study was submitted as an attachment to RFI 1-49. Areas of excessively high slope will be graded in accordance with the Project's engineered designs and/or avoided when locating Project infrastructure.

Responding Witness: Colin Cannon

Request No. 11:

Explain what mitigation measures will be implemented to address shallow rock within the site.

Response:

Please refer to the Project's Geotechnical Study attached to RFI 1-49. Per the findings in the Geotechnical Study, the Project will consider predrilling for driven piles and/or screw type piles for structural foundations and rock trenching for the Project's electrical trenches. Avoidance in certain areas may also be used for excessively shallow or sloped areas.

Responding Witness: Colin Cannon

Request No. 12:

Explain what communication, if any, has taken place between Starfire and Knott, Breathitt, and Perry County officials concerning local roads. Explain whether any concerns were raised by county officials concerning road use. Provide documentation, if applicable.

Response:

KY 1087 and KY 476 are "local" roads that Starfire anticipates may be used for Project access. However, KY 1087 and KY 476 are both state-maintained roads. Project representatives have communicated via email and telephone with representatives from KYTC District 10, which is based in Jackson, Kentucky, and responsible for maintaining these two roads. Please refer to the attachments to the Response to Post-Hearing Request No. 4 for emails regarding use of KY 1087 and KY 476. To date, Breathitt, Knott, and Perry County local officials have not raised any issues pertaining to local road use; however, the Project will be responsive to any issues that may arise and coordinate with local road authorities to mitigate any road-related concerns on county roadways.

\Responding Witness: Brian Patton