



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, August 19, 2024
WELL WORK PLUGGING PERMIT
Vertical Plugging

PANTHER CREEK MINING, LLC
205 W. MAIN ST., SUITE 2000

LEXINGTON, KY 40475

Re: Permit approval for E. Gas&Fuel 123
47-019-00909-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: E. Gas&Fuel 123
Farm Name: EASTERN ASSOC. COAL CO
U.S. WELL NUMBER: 47-019-00909-00-00
Vertical Plugging
Date Issued: 8/19/2024

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing.

1) Date Aug 2nd 47019002409
2) Operator's Well No. 123
3) API Well No. 47-019 - 00609

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 1622.841 Watershed Left and Right Fork of Armstrong Creek
District Valley County Fayette Quadrangle Powellton

6) Well Operator Panther Creek Mining, LLC 7) Designated Agent _____
Address 250 West Main St, Suite 2000 Address _____
Lexington, Kentucky 40507

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Murdock Howard Name CJ Well Service, Inc.
Address PO Box 140 Address P.O. Box 133
Oak Hill, WV 25901 Rowe, Va 24646

10) Work Order: The work order for the manner of plugging this well is as follows:

Notify State Inspector, Murdock Howard, @ 681 990-2568

Drilling will be conducted by approved drilling prognosis.

~~Bore to a depth of 997.841 feet (Approximately 400' below the lowest seam)~~

~~Cement hole from 997.841 to surface with expandable cement.~~

Depending on the site conditions plugging procedures may be modified after approval of the Inspector.

All Cement plug will be Class A Cement with no more than 3% CaCl₂,

★ ALL COAL SEAMS MUST BE COVERED W/ EXPANDING CEMENT;

() ufs

JNM

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Murdock Howard Date 8/15/24

08/23/2024

Plugging Prognosis
47-019-00909
Well # Eastern Gas & Fuel 123

Elevation: 1623.10'

TD: 2960'

Fresh Water: None reported

Salt Water: 1340'

Gas Show: 2737', 2645', 2552', 2450', 2304' 1810', perms at 2730' to 2718' and 2363' to 2596'

Coal Show: 490', 396', 300', 185', 60'

Casing Schedule:

12 3/4" @ 22' (Grouted)

9 5/8" @ 574' (CTS)

4 1/2" @ 2871.5' (CTS)

* POSSIBLE 2 3/8 TUBING TO 2725

- Class A or Class L to be used for all cement plugs
- Pump 6% gel spacers between all cement plugs

MA
8/9/24

Free casing needs to be pulled.

Procedure

- 1) Notify WV DEP State Inspector Murdock Howard 48hrs prior to commencing plugging operations.
- 2) MIRU Equipment. Record pressures. RIH with wireline, TD well. *PULL TUBING IF PRESENT. Jmm*
- 3) TIH with tubing to 2787'. Pump 20 bbls of 6% gel water. Set a 533' cement plug from 2787' to 2254' (Perforations and gas shows). TOOH with 50 jnts of tubing. WOC. Tag TOC. Top off with cement if needed.
- 4) TIH with tubing to 1860'. Pump 20 bbls of 6% gel water. Set 287' cement plug from 1860' to 1573' (elevation and gas show). TOOH with 30 jnts of tubing. WOC. Tag TOC, top off with cement if needed.
- 5) TIH with tubing to 1390'. Pump 20 bbls of 6% gel water. Set 100' cement plug from 1390' to 1290' (salt water). TOOH with tubing to 624'. WOC. Tag TOC, top off with cement if needed.
- 6) *EXPANDING CEMENT →* Set a 624' cement plug, circulating cement to surface (9 5/8" casing seat, coal shows, surface plug). TOOH with tubing.
- 7) Top off well as needed, install monument, and RDMO equipment. Reclaim to WVDEP Specs.

Jmm

RECEIVED
Office of Oil and Gas
AUG 12 2024
WV Department of
Environmental Protection

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4701900909P

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed K

Well Operator's Report of Well Work

Farm Name: Eastern Assoc Coal Corp.

Operator Well No.: Eastern Gas & Fuel 123

LOCATION: Elevation: 1,623.10

Quadrangle: Powellton

District: Valley

County: Fayette

Latitude: 10660 Feet South of
Longitude: 10030 Feet West of

Minutes Seconds
38 Deg. 5 0
81 Deg. 17 30

Company: BLAZER ENERGY CORPORATION
P.O. Box 2347, 1710 Pennsylvania Avenue
Charleston, WV 25328

Agent: Richard D. Smeltzer

Inspector: Richard Campbell
Permit issued: 8/30/99

Well work commenced: 10/15/99
Well work completed: 11/11/99

Verbal Plugging

Permission granted on: _____

Rotary Rig X Cable Rig _____

Total Depth 2960 feet

Fresh water depths (ft) _____

Salt water depths (ft) 1340'

Is coal being mined in area? _____

Coal Depths (ft): 60', 185', 300', 396', 490'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
12 3/4"	22'	22'	Grout
9 5/8"	574'	574'	212.4
4 1/2"	2871.5'	2871.5'	750.3 ft ³
2 3/8"		2725'	

Received
Office of Oil & Gas
Permitting

JAN 19 2000

WV Division of
Environmental Protection

OPEN FLOW DATA

Producing formation Upper Weir, Big Lime

Pay Zone Depth (ft): _____ See Attach for details

Gas: Initial open flow 10.53 MCF/d

Oil: Initial open flow _____ Bbl/d

Final open flow: 382 MCF/d

Final open flow: _____

Time of open flow between initial and final tests _____ Hours

Static rock pressure 405 psig (surface pressure) after _____ Hours

Second producing formation _____

Pay Zone Depth (ft): _____

Gas: Initial open flow _____ MCF/d

Oil: Initial open flow _____ Bbl/d

Final open flow: _____ MCF/d

Final open flow: _____

Time of open flow between initial and final tests _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BLAZER ENERGY CORPORATION

By: [Signature]
Date: 1/11/00

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4701900909P

EASTERN STATES OIL & GAS, INC.
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary

Well: Eastern Gas & Fuel 123

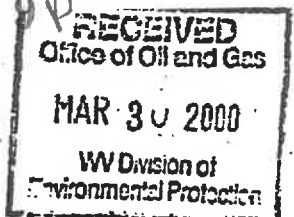
API# 47-019-00909

Date	10/28/99	11/08/99			
Type Frac	75 Q	Acid			
Acid, N., Foam, Water	Foam				
Zone Treated	Upper Weir	Big Lime			
# Perfs	25	16			
From - To:	2718' - 2730'	2363' - 2596'			
BD Pressure @ psi	1152	850			
ATP psi	1111	1049			
Avg. Rate, B=B/M, S= SCF/M	20 B	10 B			
Max. Treat Press psi	1134	2261			
ISIP psi	-19	127			
Frac Gradient	.42	.46			
10 min S-I Pressure		1179			
Material Volume					
Sand-sks	449				
Water-bbl	178				
SCF N.	207,000	34,500			
Acid-gal		2200 gal 15%			
NOTES:					

Office of Oil & Gas
 Permitting
 JAN 9 2000
 Division of Petroleum & Gas

TOP	BOTTOM	FORMATION	REMARKS
0	15	Sandy Shale	
15	60	Sandstone	
60	61	Coal	
61	90	Sandy Shale	
90	140	Sandstone	
140	185	Sandy Shale	
185	186	Coal	
186	220	Shale	
220	221	Coal	
221	300	Sandy Shale	
300	301	Coal	
301	350	Sandy Shale	
350	396	Sandstone	
396	397	Coal	
397	490	Sand	
490	491	Coal	
491	600	Sandy Shale	
678	1490	Salt Sand	Water @ 1340'
1641	1658	Ravencliff	
1658	1686	Avis Lime	
1706	1738	Upper Maxton	GT @ 1810' = trace
1915	1947	Middle Maxton	
2161	2174	Lower Maxton	
2210	2276	Little Lime	
2301	2622	Big Lime	GT @ 2304', 2450', 2552 = trace
2622	2651	Big Injun	GT @ 2645' = trace @ 2737' = 15 mcfd
2689	2731	Lower Weir	
2784	2830	Lower Weir	
	2960	TD	GT @ 2960 = 10.53 mcfd

08/23/2024



IR-2
REV 5/94
PAGE 1 OF 2

INSPECTOR'S PERMIT SUMMARY FORM

DATE STARTED/LOCATION: _____
DRILLING COMMENCED: 10/15/19
TD DATE: _____ DEPTH: _____

API# 47-19-00909
OPERATOR: BLAZER ENERGY CORPORATION
FARM: EASTERN ASSOC. COAL CORP.
WELL NO.: E. Gas&Fuel 123
COAL DEPTHS 60, 115, 210, 300, 396, 470

WATER DEPTHS

1. IS THE OPERATOR KEEPING DETAILED DRILLING AND CEMENT RECORDS:
YES [] NO [] (5 POINTS)

RAN 570 FEET OF 9 3/4" PIPE ON 10/14 CEMENTED WITH 180 SACKS (CIRCULATED) YES [] NO []
RAN _____ FEET OF _____" PIPE ON _____ CEMENTED WITH _____ SACKS (CIRCULATED) YES [] NO []
RAN _____ FEET OF _____" PIPE ON _____ CEMENTED WITH _____ SACKS (CIRCULATED) YES [] NO []
RAN _____ FEET OF _____" PIPE ON _____ CEMENTED WITH _____ SACKS (CIRCULATED) YES [] NO []
PIT DISCHARGE DATE: _____ TYPE: _____ WEATHER CONDITIONS: _____ LAND: _____

ACRES DISCHARGED: _____ PIT VOLUME: _____ PIT ADDITIVES: _____

FIELD ANALYSIS: pH _____ Fe _____ mg/l cl _____ mg/l D.O. _____ mg/L toc _____ mg/L

QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-28, 22-6-30, 22-6-6, 22-6-7, AND 22-6-27 AND REGULATION 38CSR 18-9.2.3, 38CSR 18-12.1, 38CSR 18-16.5, 38CSR 18-16.6.

TOTAL POINTS AVAILABLE FOR QUESTION 2: 2. (10 POINTS) 10

2. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING:
A. CONSTRUCTION YES [] NO [] (2 PTS) B. DRILLING YES [] NO [] (2 PTS)
C. PIT TREATMENTS YES [] NO [] (2 PTS) D. PIT DISCHARGE YES [] NO [] (2PTS)
E. RECLAMATION YES [] NO [] (2 PTS)

3. DID THE OPERATOR HAVE PERMIT ON SITE? YES [] NO [] 3. (4 POINTS) 4

4. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES [] NO [] 4. (4 POINTS) _____

5. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [] NO [] 5. (4 PTS) _____

TOTAL POINTS AVAILABLE FOR QUESTION 6: 6. (21) POINTS _____

6. WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED?
A. ROAD DITCHES YES [] NO [] (3PTS) B. CROSS DRAINS YES [] NO [] (3PTS)
C. CULVERTS YES [] NO [] (3PTS) D. CREEK CROSSINGS YES [] NO [] (3PTS)
E. DIVERSION DITCHES YES [] NO [] (3PTS) F. BARRIERS YES [] NO [] (3PTS)
G. TEMPORARY SEEDING YES [] NO [] (3PTS)

7. WAS TOP SOIL (IF ANY) BEEN STOCKED PILED? YES [] NO [] 7. (2 PTS) 2

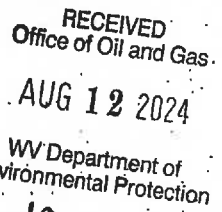
8. WAS THE WELL STAKE IN THE PROPER SPOT IN ACCORDANCE WITH 38CSR-9.2.3 AFTER CONSTRUCTION? YES [] NO [] 8. (3 PTS) 3

9. IS THE PIT PROPERLY INSTALLED? YES [] NO []
A. WALLS COMPACTED YES [] NO [], CUT YES [] NO []
B. FREE OF DEBRIS BEFORE LINING YES [] NO []
C. LINED YES [] NO []
D. FLUIDS CONTAINED YES [] NO []
E. FREE OF NON EXEMPT/RESTRICTED MATERIALS YES [] NO []
F. PROPERLY TREATED YES [] NO []

9. (6 PTS) 6

10. DID INSPECTOR APPROVE ALL MODIFICATIONS YES [] NO [] TOTAL POINTS PAGE 1 (60 PTS) 54

54



Form: WW - 2B

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator BLAZER ENERGY CORPORATION 2750 019 9 557
Operator ID County District Quadrangle

2) Operator's Well Number: Eastern Gas and Fuel 123 3) Elevation: 1623

4) Well Type: (a) Oil _____ or Gas X 47-019-009099
 (b) If Gas: Production X / Underground Storage _____
 Deep _____ / Shallow X

5) Proposed Target Formation(s): Lower Maxton, Big Lime, Upper Weir, Lower Weir

6) Proposed Total Depth: 3660 Feet

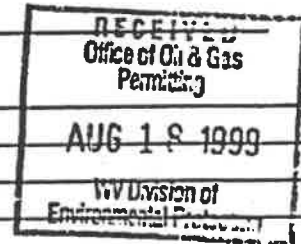
7) Approximate fresh water strata depths: None reported

8) Approximate salt water depths: 952', 1102'

9) Approximate coal seam depths: 396', 432', 481'

10) Does land contain coal seams tributary to active mine? NO

11) Describe proposed well work Drill and complete new well



12) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8"	L.S.	37	26'	26'	N/A
Fresh Water	9 5/8"	L.S.	26	550'	550' ✓	C.T.S.
Coal					<i>finish on 9800, 2" cut back to surface</i>	
Intermediate					<i>if hit open</i>	<i>more C.T.S.</i>
Production	4 1/2"	M-55	9.5	3660'	3660'	187 <i>Count back over 250' set back to 1500'</i>
Tubing	2 3/8"	J-55	4.6	May not be run, if run will be set 100' less than TD		
Liners						

Be
8/14/99

Packers: Kind _____
 Sizes _____
 Depths Set _____



Select County: (019) Fayette Select datatypes: (Check All) Location Production Plugging Owner/Completion Stratigraphy Sample Pay/Show/Water Logs Btm Hole Loc

Table Descriptions County Code Translations Permit-Numbering Series Usage Notes Contact Information Disclaimer WVGES Main Pipeline-Plus New

Well: County = 19 Permit = 00909 Link to all digital records for well

Report Time: Monday, August 19, 2024 11:29:26 AM

WV Geological & Economic Survey:

Location Information: View Map

Table with columns: API, COUNTY, PERMIT, TAX_DISTRICT, QUAD_75, QUAD_15, LAT_DD, LON_DD, UTME, UTMN

There is no Bottom Hole Location data for this well

Owner Information:

Table with columns: API, CMP_DT, SUFFIX, STATUS, SURFACE_OWNER, WELL_NUM, CO_NUM, LEASE, LEASE_NUM, MINERAL_OWN, OPERATOR_AT_COMPLETION, PROP_VD, PROP_TRGT_FM, TFM_EST_PR

Completion Information:

Table with columns: API, CMP_DT, SPUD_DT, ELEV DATUM, FIELD, DEEPEST_FM, DEEPEST_FMT, INITIAL_CLASS, FINAL_CLASS, TYPE, RIG, CMP_MTHD, TVD, TMD, NEW_FTG, KOD, G_BEF, G_AFT, O_BEF, O_AFT

Pay/Show/Water Information:

Table with columns: API, CMP_DT, ACTIVITY, PRODUCT, SECTION, DEPTH_TOP, FM_TOP, DEPTH_BOT, FM_BOT, G_BEF, G_AFT, O_BEF, O_AFT, WATER_QNTY

Production Gas Information: (Volumes in Mcf) * 2023 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_GAS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2023 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_OIL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil * 2023 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_NGL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Water Information: (Volumes in Gallons) * 2023 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING_OPERATOR, PRD_YEAR, ANN_WTR, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Stratigraphy Information:

Table with columns: API, SUFFIX, FM, FM_QUALITY, DEPTH_TOP, DEPTH_QUALITY, THICKNESS, THICKNESS_QUALITY, ELEV, DATUM

08/23/2024

4701900909P

4701900909	Original Loc	Ravencroft/Avis Ss	Well Record	1641	Reasonable	17	Reasonable	1623	Ground Level
4701900909	Original Loc	Avis Ls	Well Record	1658	Reasonable	28	Reasonable	1623	Ground Level
4701900909	Original Loc	Up Maxton	Well Record	1706	Reasonable	32	Reasonable	1623	Ground Level
4701900909	Original Loc	Maxton	Well Record	1915	Reasonable	32	Reasonable	1623	Ground Level
4701900909	Original Loc	Lo Maxton	Well Record	2161	Reasonable	13	Reasonable	1623	Ground Level
4701900909	Original Loc	Little Lime	Well Record	2210	Reasonable	66	Reasonable	1623	Ground Level
4701900909	Original Loc	Big Lime	Well Record	2301	Reasonable	321	Reasonable	1623	Ground Level
4701900909	Original Loc	Big Injun (Price&eq)	Well Record	2622	Reasonable	29	Reasonable	1623	Ground Level
4701900909	Original Loc	Price Fm & equivs	Well Record	2622	Reasonable	0	Reasonable	1623	Ground Level
4701900909	Original Loc	Up Weir	Well Record	2639	Reasonable	42	Reasonable	1623	Ground Level
4701900909	Original Loc	Lo Weir	Well Record	2734	Reasonable	46	Reasonable	1623	Ground Level

Wireline (E-Log) Information:

* There is no Scanned/Raster Log data for this well

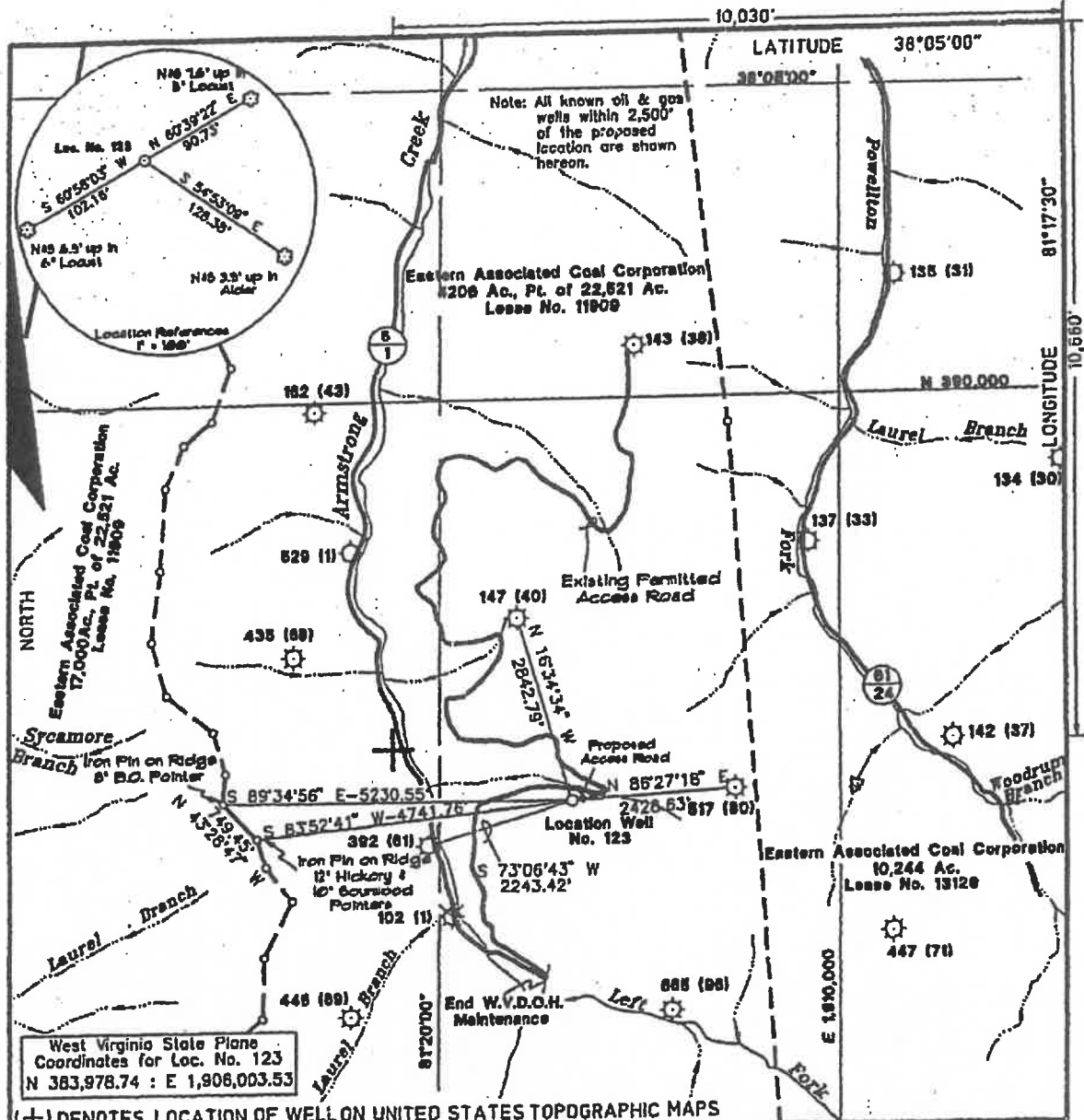
* There is no Digitized/LAS Log data for this well

* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

08/23/2024



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____ DRAWING NO. _____ SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY 1:49348 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. "11 BK6" Elev. = 1251713	I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY. (SIGNED) <i>Ronald L. Eastman</i> R.P.E. _____ L.L.S. 150	PLACE SEAL HERE
---	---	-----------------

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE August 2, 19 97
OPERATOR'S WELL NO. E.G. & F. No. 123
API WELL NO. _____

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 162310 WATER SHED Armstrong Creek of Kanawha River
 DISTRICT Valley COUNTY Fayette
 QUADRANGLE Powellton

SURFACE OWNER Eastern Associated Coal Corporation ACREAGE 20,000
 OIL & GAS ROYALTY OWNER Eastern Associated Coal Corporation LEASE ACREAGE 22,521

LEASE NO. 11909
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 6,400'

WELL OPERATOR Eastern States Oil & Gas, Inc. DESIGNATED AGENT Robert Alley
 ADDRESS P.O. Box 2341 ADDRESS P.O. Box 2341
 Charleston, WV 25328 Charleston, WV 25328

RECEIVED
Office of Oil and Gas
AUG 12 2024
West Virginia Department of Environmental Protection

08/23/2024

WW-4A
Revised 6-07

1) Date: 8-2-24
2) Operator's Well Number #123

3) API Well No.: 47 - 019 - 00909

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Quercus, West Virginia LLC</u>	Name <u>Panther Creek Mining</u>
Address <u>1627 Quarrier Street East</u>	Address <u>250 West Main St, Suite 2000</u>
<u>Charleston, WV 25311</u>	<u>Lexington, Kentucky 40507</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Same as Surface</u>
(c) Name _____	Address _____
Address _____	Name _____
(c) Name _____	Address _____
Address _____	(c) Coal Lessee with Declaration
6) Inspector <u>Murdock Howard</u>	Name <u>Pardee Minerals LLC</u>
Address <u>P.O. Box 140</u>	Address <u>209 West Washington Street</u>
<u>Oak Hill, WV 25901</u>	<u>Charleston, WV 25302</u>
Telephone <u>304-549-5915</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

RECEIVED
Office of Oil and Gas

AUG 12 2024

Well Operator Panther Creek Mining, LLC

By: [Signature]

Its: Senior Vice President

Address 250 West Main St, Suite 2000
Lexington, Kentucky 40507

Telephone 859-543-0515

WV Department of
Environmental Protection

Subscribed and sworn before me this 5th day of August 2024

[Signature]

Notary Public



My Commission Expires 11/09/2027

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/23/2024

SURFACE OWNER WAIVER

Operator's Well
Number

#123

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name	Quercus West Virginia, LLC
Signature		By	Matt P. Roscoe
		Its	Vice President
			Date 8-8-24
		Signature	Matt P. Roscoe
		Date	8-8-24

08/23/2024

WW-4B

API No. 47-019-00909

Farm Name _____

Well No. #123

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.


This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator X / owner _____ / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 08/05/2024


By: D. Edward Brown
Its Senior Vice President

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WV Department of
Environmental Protection

08/23/2024

4701900909P

WW-9
(5/16)

API Number 47 - 019 - 00909
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Panther Creek Mining, LLC OP Code _____

Watershed (HUC 10) _____ Quadrangle Powellton

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Sump with Liner, No discharge. Will haul excess off site)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and Fresh Water

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Buried on Site

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Lime

-Landfill or offsite name/permit number? N/S

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) D. Edward Brown

Company Official Title Senior Vice President

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Office of Oil and Gas

AUG 12 2024

WV Department of
Environmental Protection

Subscribed and sworn before me this 5th day of August, 20 24

[Signature]

Notary Public



My commission expires 11/09/2027

08/23/2024

4701900909P



New River Engineers, Inc.

July 29, 2024

WV Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

RE: Pit Waste Disposal for Plugging a Abandon Well
API 47-019-00909

Dear Sir:

On behalf of our client, Panther Creek Mining, please find attached a submittal for procedure for pit waste.

After approval of the completed WW-48b Application for a permit to abandon and plug Well API 47-019-00909. Panther Creek Mining will construct a pit with a 20 ml Liner. All materials will be stored in the pit, and any excess fluids will be removed from the pit and taken to the DEP approved refuse facilities O-0048-85 for disposal. Should you have any questions or comments, please feel free to contact me or Chris Burford at (304) 595-3290.

Sincerely,

Michael Proctor – Project Engineer

New River Engineers, Inc.

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WV Department of
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Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	400		
Clover	5		
Rye Grass	5		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Murdock Howard

Comments: Operator to cover with cement all oil and gas formations including salt, elevation, coals and fresh water.

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Office of Oil and Gas
AUG 12 2024
WV Department of
Environmental Protection

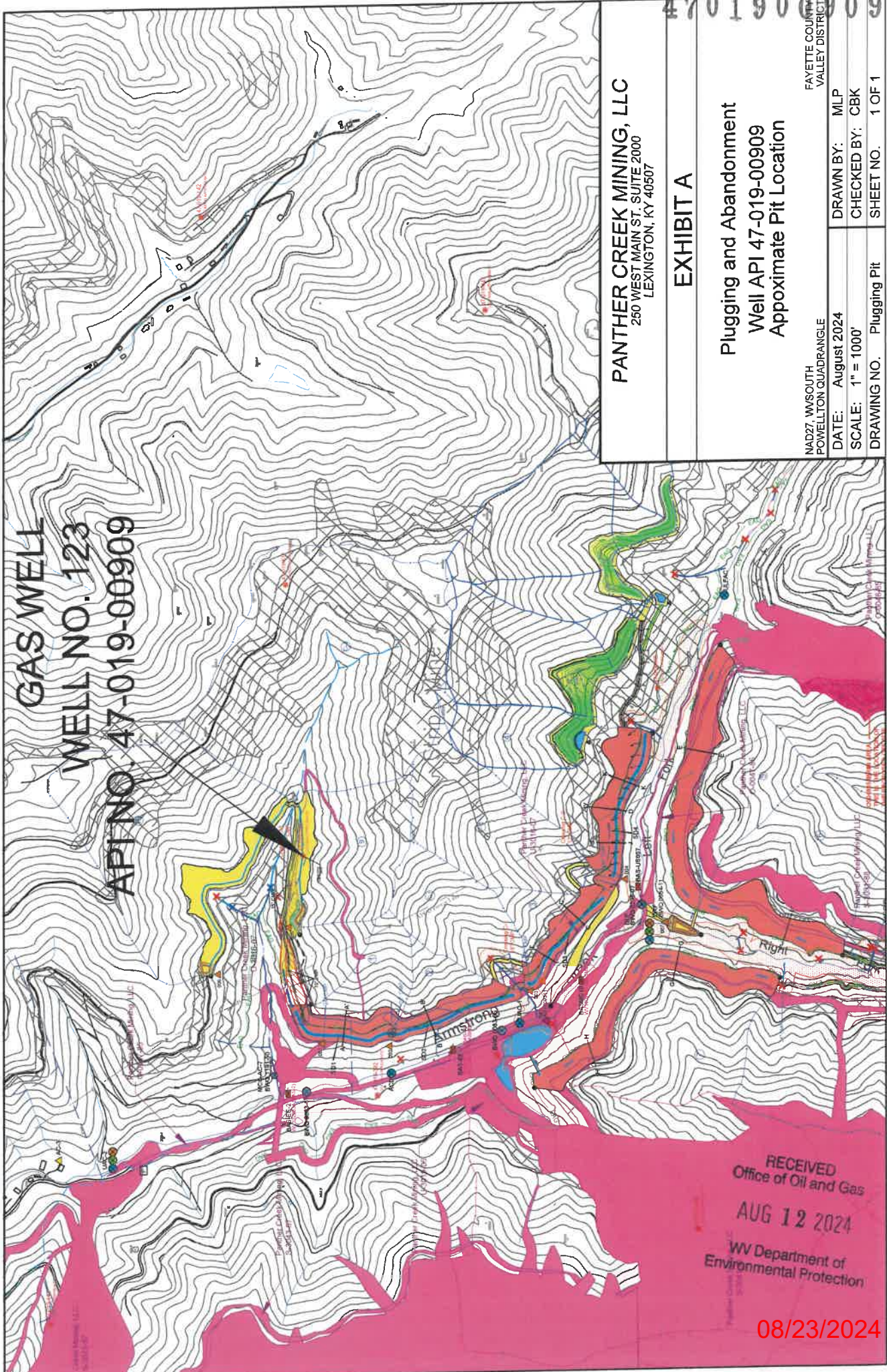
Title: Inspector

Date: 8/7/24

Field Reviewed? Yes

No

GAS WELL
WELL NO. 123
API NO. 47-019-00909



PANTHER CREEK MINING, LLC
250 WEST MAIN ST. SUITE 2000
LEXINGTON, KY 40507

EXHIBIT A

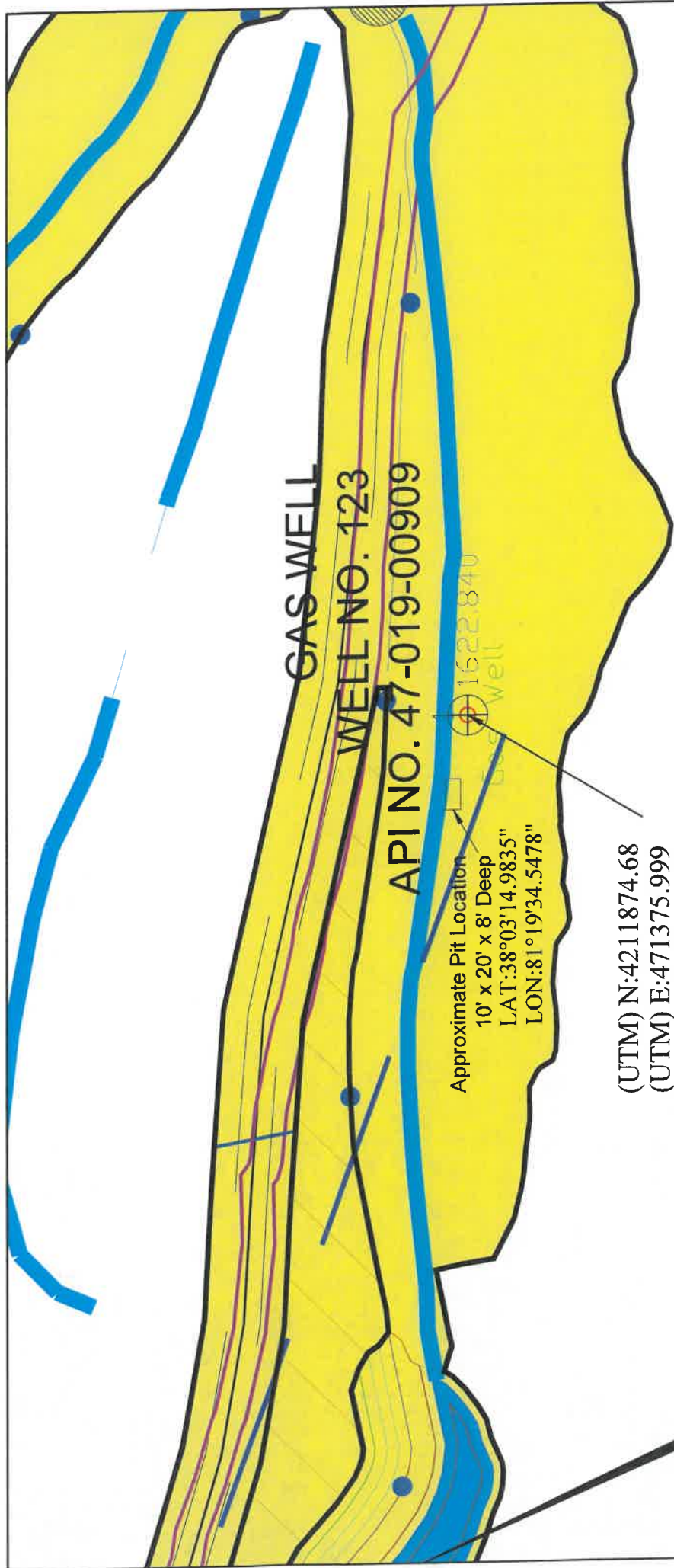
Plugging and Abandonment
Well API 47-019-00909
Approximate Pit Location

NAD27, WVSOUTH POWELLTON QUADRANGLE	FAYETTE COUNTY VALLEY DISTRICT
DATE: August 2024	DRAWN BY: MLP
SCALE: 1" = 1000'	CHECKED BY: CBK
DRAWING NO. Plugging Pit	SHEET NO. 1 OF 1

47019000909P

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08/23/2024



GAS WELL
WELL NO. 123
API NO. 47-019-00909

Approximate Pit Location
 10' x 20' x 8' Deep
 LAT: 38°03'14.9835"
 LON: 81°19'34.5478"

(UTM) N: 4211874.68
 (UTM) E: 471375.999
 Z: 494.642 Meters

POND NO. 2

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 WV Department of
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08/23/2024

PANTHER CREEK MINING, LLC 250 WEST MAIN ST. SUITE 2000 LEXINGTON, KY 40507		4701900	
EXHIBIT A		FAYETTE COUNTY VALLEY DISTRICT	
Plugging and Abandonment Well API 47-019-00909 Approximate Pit Location		DRAWN BY: MLP	CHECKED BY: CBK
NAD27, WVSOUTH POWELLTON QUADRANGLE	DATE: August 2024	SHEET NO. 1 OF 1	
SCALE: 1" = 100'	DRAWING NO. Plugging Pit	99	

Oil&Gas

Wells, Horizontal Only

WellStatus

-  Active Well
-  Permit Issued
-  Permit Application
-  Plugged

Wells, Active Status Only

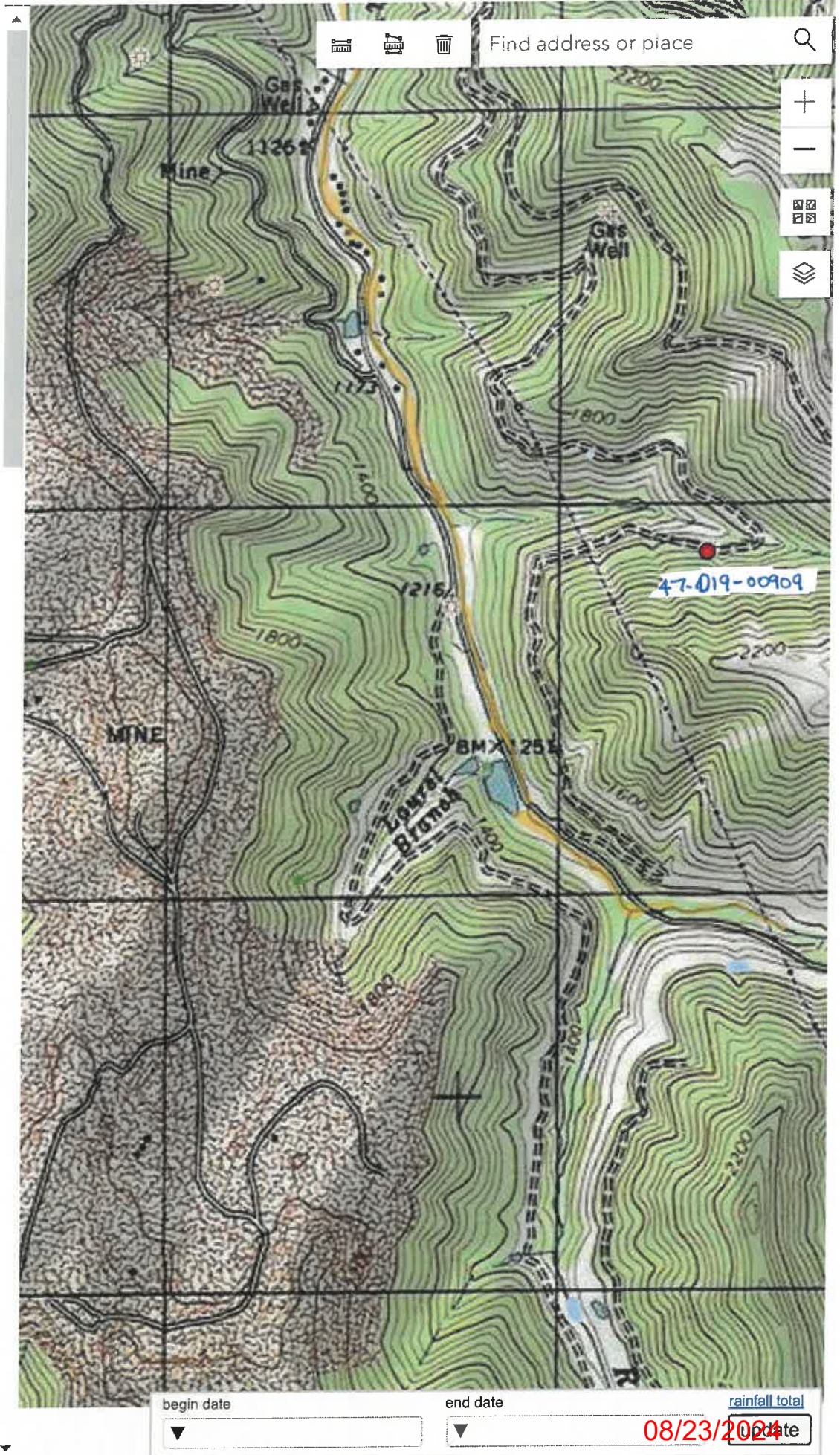
WellUse

-  Brine Disposal
-  Fluid Injection
-  Gas Production
-  House Gas
-  Observation
-  Oil Production
-  Production
-  Solution Mining
-  Storage
-  Vent
-  <all other values>

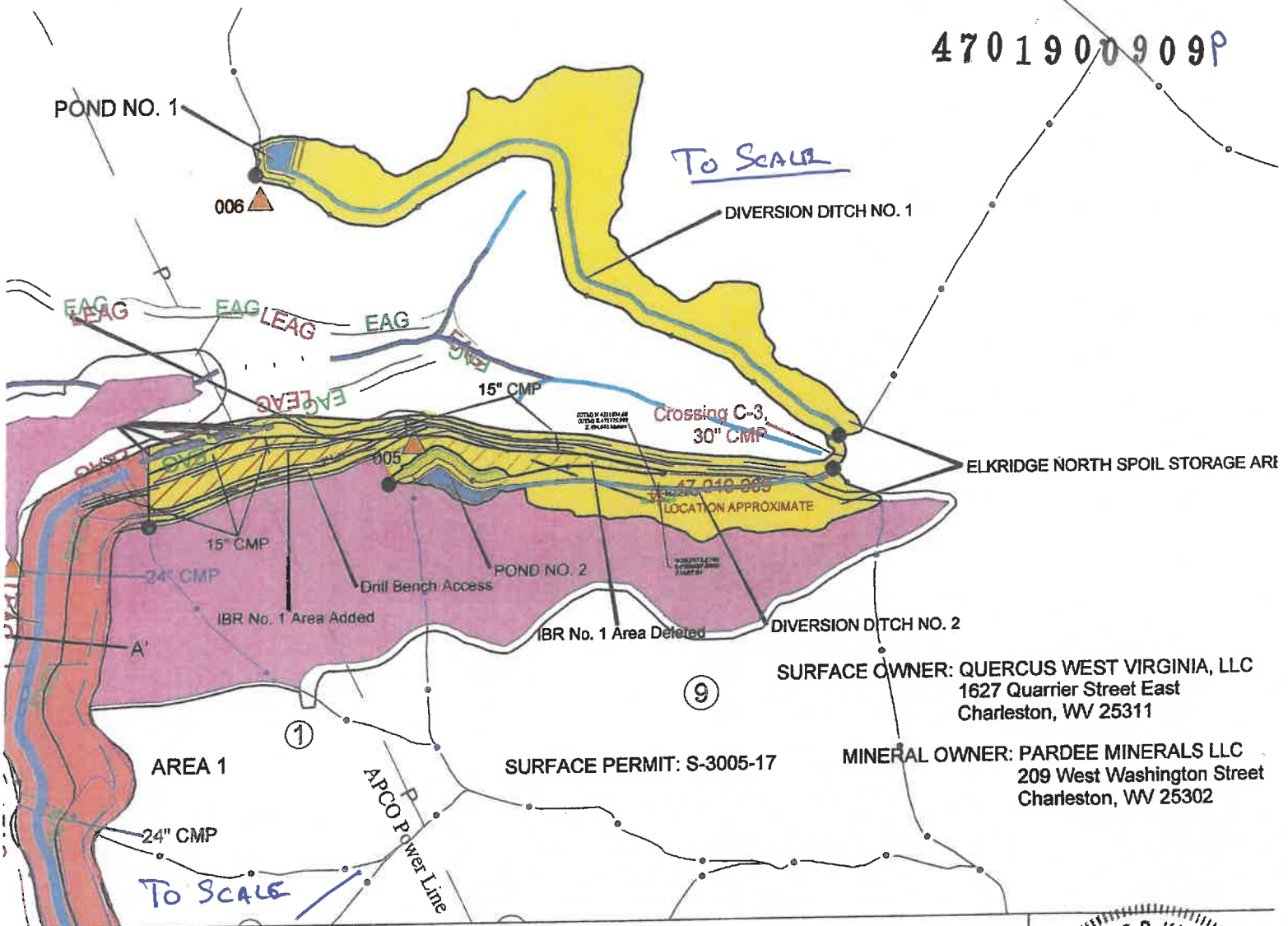
Wells, Other than Active Status

WellUse

-  Brine Disposal
-  Fluid Injection
-  Gas Production
-  House Gas
-  Observation
-  Oil Production
-  Production
-  Solution Mining



4701900909P



SURFACE OWNER: QUERCUS WEST VIRGINIA, LLC
 1627 Quarrier Street East
 Charleston, WV 25311

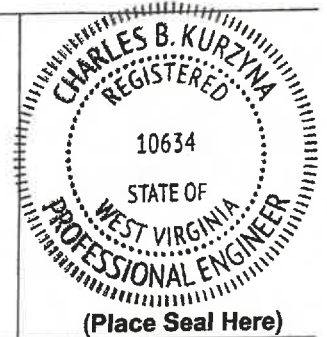
MINERAL OWNER: PARDEE MINERALS LLC
 209 West Washington Street
 Charleston, WV 25302

SURFACE PERMIT: S-3005-17

FILE NO.: 47-019-00909
 DRAWING NO.: GAS WELL-123
 SCALE: 1" = 400'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: Panther Creek Mining (1622.84)

"I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE LAWS AND RULES ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION."

(signed) *[Signature]*
 R.P.E # 10634



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



Date: July 29, 20 24
 Operator's Well No.: 123
 API Well No.: 47-019-00909

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 Office of Oil and Gas
 AUG 12 2024
 WV Department of Environmental Protection

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1622.84 WATERSHED: Left Fork and Right Fork of Armstrong Creek

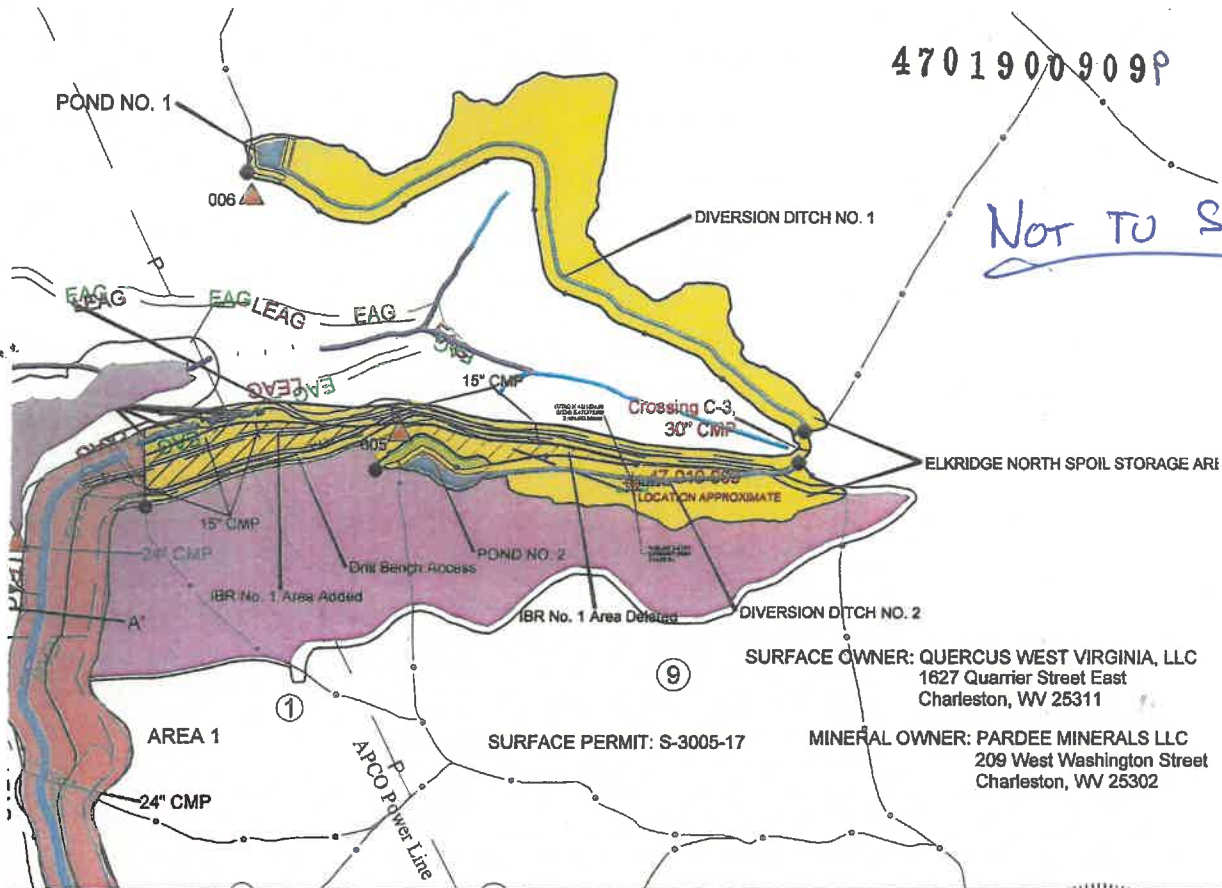
DISTRICT: Valley COUNTY: Fayette

QUADRANGLE: Powellton

08/23/2024

4701900909P

NOT TO SCALE



SURFACE OWNER: QUERCUS WEST VIRGINIA, LLC
 1627 Quarrier Street East
 Charleston, WV 25311

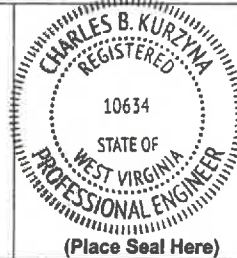
MINERAL OWNER: PARDEE MINERALS LLC
 209 West Washington Street
 Charleston, WV 25302

SURFACE PERMIT: S-3005-17

FILE NO.: 47-019-00909
 DRAWING NO.: GAS WELL-123
 SCALE: 1" = 400'
 MINIMUM DEGREE OF ACCURACY: 1:2500
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(signed) *[Signature]*
 R.P.E # 10634



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



Date: July 29, 2024
 Operator's Well No.: 123
 API Well No.: 47-019-00909

RECEIVED
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 AUG 12 2024
 WV Department of Environmental Protection

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1622.84 WATERSHED: Left Fork and Right Fork of Armstrong Creek

DISTRICT: Valley COUNTY: Fayette

QUADRANGLE: Powellton

SURFACE OWNER: Quercus, West Virginia LLC ACREAGE: 137.03

OIL & GAS ROYALTY OWNER: Pardee Minerals LLC, West Virginia LEASE ACREAGE: 137.03
 LEASE NO: _____

PROPOSED WORK: DRILL: ___ CONVERT: ___ DRILL DEEPER: ___ REDRILL: ___ FRACTURE OR STIMULATE: ___
 PLUG OFF OLD FORMATION: ___ PERFORATE NEW FORMATION: ___
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY): _____
 PLUG AND ABANDON: X CLEANOUT AND REPLUG: ___

TARGET FORMATION: _____ ESTIMATED DEPTH: _____

WELL OPERATOR: Panther Creek Mining, LLC DESIGNATED AGENT: R&J Well Service, Inc.

ADDRESS: 250 West Main St. Suite 2000
Lexington, KY 40507

ADDRESS: P.O. Box 133
Rowe, VA 24646

08/23/2024

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-019-00909 WELL NO.: 123

FARM NAME: Eastern Gas & Fuel

RESPONSIBLE PARTY NAME: NREI

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Powellton

SURFACE OWNER: Quercus, West Virginia LLC

ROYALTY OWNER: Pardee Minerals LLC

UTM GPS NORTHING: 4211874.68 (1622')

UTM GPS EASTING: 471375.999 GPS ELEVATION: 494.642 M

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS x : Post Processed Differential _____
Real-Time Differential x

Mapping Grade GPS _____: Post Processed Differential _____
Real-Time Differential _____

- Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Michael Powell
Signature

Project Engineer
Title

August 8, 2024
Date

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WV Department of
Environmental Protection