

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

Austin Caperton, Cabinet Secretary <u>www.dep.wv.gov</u>

Tuesday, October 16, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

K. PETROLEUM, INC. 81 MILL STREET, SUITE 205

GAHANNA, OH 432306510

Re: Permit approval for PLC 25 47-109-01458-00-00

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: PLC 25

Farm Name: POCAHONTAS LAND CORP.

U.S. WELL NUMBER: 47-109-01458-00-00

Vertical Plugging
Date Issued: 10/16/2018

Promoting a healthy environment.

I

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

1) Date JULY 191H ,	2018
2) Operator's	Approximation of the Company of the
Well No. P.L.C 25	
3) API Well No. 47-109	- 01458

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil / Gas XX / Liquid	d injection / Waste disposal /
- 7		derground storage) Deep/ Shallow
5)	Location: Elevation 1510'	Watershed LICK BRANCH
	District CENTER	County WYOMING Quadrangle PINEVILLE 7.5
6)	Well Operator K. PETROLEUM, INC	7) Designated Agent JAM KHORAMMI
	Address 81 MILL ST. SUITE 205	Address 81 MILL ST. SUITE 205
	GAHANNA, OH 43230	GAHANNA, OH 43230
8)	Oil and Gas Inspector to be notified	
	Name GARY KENNEDY	Name PATCHWORK OIL & GAS, LLC
	Address 66 OLD CHURCH LANE	Address PO BOX 168
	PIPESTEM, WV 25979	DAVISVILLE, WV 26142
	PLUGGING PROCEDURE ATTACHED T	
		"Allon
NEW CONTRACTOR		
	ification must be given to the district of k can commence.	il and gas inspector 24 hours before permitted
Wor	k order approved by inspector	Kourrolf Date 8/13/18

Work Order Attachment

47-109-01458

P.L.C #25

Run Bond log when necessary to find cement top and/or POCA 3 coal seam. Gel spacers in between all cement plugs.

- 1. Prepare plugging permit application.
- 2. Certify to surface and coal owners as necessary.
- 3. Certify to designated State inspector for signature.
- 4. Once all signatures are obtained, copy for our records and certify at the state level for approval.
- 5. Receive plugging permit good for 2 years.
- 6. Notify the designated State inspector 24 hours prior to commencing operations.

7. Move rig and equipment to location. cheek Rock Pressure 8. Verify total depth of 2326'.

- 9. Attempt to clean out well bore, as necessary.
- 10. Run E-log to determine the location of the lowest mineable coal bed.

11. Run tubing to the bottom of the 4 1/2, set first plug with Class A cement with no more than 3% CaCl2 and no other additives from TD up to 50' above the top hole of the 2nd set of perforations. (Covering 2115' to 2246' 1st stage perforation & 1898' to 2066' 2nd stage RECEIVED
Office of Oil and Gas PLOG FROM TA & 2280' TO 1848'. perforation)

12. Pull tubing back, wait 8 hours.

13. Run in and tag plug, add additional cement if needed.

AUG 2 4 2018

WV Department of Environmental Protection

- 14. Run 6% Bentonite gel
- 15. Run tubing from 50' below the bottom of the 3rd stage perforation to 50' above the top perforation. (Covering 1403' to 1462' 3rd Stage perforations) flue From 1572' TO 1353'
- 16. Pull tubing back, wait 8 hours.
- 17. Run in and tag plug, add cement if needed.
- 18. Begin looking for free point.

- 19. If the well bore still produces gas, a mechanical bridge plug shall be placed in the well bore in a competent stratum at least 200' below the lowest mineable seam of coal but above the uppermost hydrocarbon producing zone.
- 20. If the free point shows the $4\frac{1}{2}$ casing cemented thru the POCA 3 coal seam, then go in and mill the $4\frac{1}{2}$ and perforate the 7" steel casing from approximately 5' below the bottom of the POCA 3 coal seam to 10' above the top of the POCA 3 coal seam. Perforate with 8 shots per foot in this area.
- 21. If the free point shows the $4\frac{1}{2}$ isn't cemented thru the POCA 3 coal seam, then pull the $4\frac{1}{2}$ casing from below the POCA 3 coal seam to the surface.
- 22. Circulate gel. Section mill 7" for a 20' casing free zone from 5' below the POCA 3 coal seam to 10' above based on a bond log that locates the area of the POCA 3 coal seam to facilitate an appropriate active mining of the POCA 3 coal seam. (Approximately 723' to 703")
- 23. Perforate 4 ½ and/or 7" at 10 intervals approximately 878' to 733'.
- 24. Run tubing back in and circulate gel, run expandable cement slurry down tubing to displace gel from 50' below perforation interval to 50' above top of perforation interval.
- 25. Pull tubing back, wait 8 hours.
- 26. Run in and tag plug, add cement if needed.
- 27. Set 3' high x 7'' casing with concrete; add API for identification.
- 28. RDMO
- 29. Reclaim location
- 30. Prepare WR-34 & WR-35 for permit release.

Office of Oil and Gas

AUG 2 4 2018

Environmental Protection

MAL

U.S. Department of Labor

Mine Safety and Health Administration 4015 Wilson Boulevard Arlington, Virginia 22203–1984



MSHA 101C

April 08, 1994

MEMORANDUM FOR MICHAEL J. LAWLESS

FROM:

ALLYN DAVIS

Chief, Division of Safety

SUBJECT:

Finalized Cases, Petitions for Modification

DARIA MONTOURS W 77

APR 1 5 1994

Mediliyed District 4

The cases listed below have become final pursuant to 30 CFR 44.13. More than 30 days have elapsed since the issuance of the proposed decisions and orders or the proposed orders of dismissal. No requests for hearing or appeals that would prohibit implementation of the modification have been received. Cases shown with an asterisk, however, have been partially appealed pursuant to 30 CFR 44.14(c); the proposed decisions and orders may be implemented for these cases during the appeal of one or more terms and conditions.

		Date	Decision	
Docket No.	Mine ID	Final	Decision	
M-93-051-C	4601816	04/02/94	Granted	

Gacy No. 50 mine
U.S. Steel Mining Company, Inc.
ID 46-01816
Section 75.1700

CC: D. S. Mandeville

C. E. Thomas

T. E. Gunter

Ventilation Files

M S H A MOUNT HOPE, W. VA.

MAR - 7 1994

RECEIVED DISTRICT 4

MAR 3 1994

In the matter of U.S. Steel Mining Company, Inc. Gary No. 50 Mine I.D. No. 46-01816 Petition for Modification

Docket No. M-93-51-C

PROPOSED DECISION AND ORDER

On March 26, 1993, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Gary No. 50 Mine, located in Wyoming County, West Virginia. The Petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

MSHA personnel conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative report and recommendation, a Proposed Decision and Order was issued on October 14, 1993. On November 3, 1993, the Petitioner filed a request for a hearing objecting to certain terms and conditions set forth in Item II. (a) and (b) of the Proposed Decision and Order.

Following a request from the Administrator, the petition was remanded to Coal Mine Safety and Health for reconsideration on December 21, 1993. After further evaluation of the entire record, including the petition, the Mine Safety and Health Administrations's investigative report and recommendations, and comments from the Petitioner, this new Proposed Decision and Order is issued which supersedes the Proposed Decision and Order issued on October 14, 1993.

Finding of Fact and Conclusion of Law

The alternative method proposed by the Petitioner will at all times guarantee no less than the same measure of protection afforded the miners under 30 CFR 75.1700.

On the basis of the petition and the findings of MSHA's investigation, U.S. Steel Mining Company, Inc., is granted a modification of the application of 30 CFR 75.1700 to its Gary No. 50 Mine.

CC: D. S. Mandeville

C. E. Thomas

T. E. Gunter

Ventilation Files

ORDER

Wherefore, pursuant to the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and pursuant to Section 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C., sec. 811(c), it is ordered that U.S. Steel Mining Company, Inc.'s Petition for Modification of the application of 30 CFR 75.1700 in the Gary No. 50 Mine is hereby:

GRANTED, conditioned upon compliance with the following terms and conditions:

- I. The wellbore shall be plugged using the following technique and procedures:
 - (a) <u>Cleaning out and preparing oil and gas wells</u>. Prior to plugging an oil or gas well, the following procedure shall be followed:
 - (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest mineable coalbed.
 - (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest mineable coalbed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
 - (4) A suite of logs shall be made consisting of a caliper survey directional deviation survey,

and log(s) suitable for determining the top and bottom of the lowest mineable coalbed and potential hydrocarbon-producing strata and the location for the bridge plug.

- is within 200 feet of the base of the lowest mineable coalbed, properly placed mechanical bridge plugs or a suitable brush plug described in subparagraph (a)(3) shall be used to isolate the hydrocarbon-producing stratum from the expanding cement plug. Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest mineable coalbed.
- (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and densifies the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
- (b) Plugging oil and gas wells to the surface. The following procedures shall be utilized when plugging oil and gas wells to the surface:
 - A cement plug shall be set in the wellbore by (1) pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest mineable coalbed to the surface with an expanding cement plug extending from at least 200 feet below the lowest mineable coalbed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole, if a steel surface casing is not present.

- (c) Plugging oil and gas wells using the vent pipe method. The following procedures shall be utilized when using the vent pipe method for plugging oil and gas wells:
 - (1) A 4 1/2-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest mineable coalbed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
 - (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expanding cement for a minimum of 200 feet below the base of the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest mineable coalbed.
 - (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
 - (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- (d) Plugging oil and gas wells for use as degasification boreholes. The following procedures shall be utilized when plugging oil and gas wells for subsequent use as degasification boreholes:
 - (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point above the top of the coalbed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.

- (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
- (3) The annulus between the degasification casing and the borehole wall shall be cemented from a point immediately above the slots or perforations to the surface.
- (4) The degasification casing shall be cleaned out for its total length.
- (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.
- II. The following procedures shall apply to mining through a plugged oil and gas well:
 - (a) The operator shall notify the District Manager or designee prior to mining within 300 feet of the well.
 - (b) A representative of the operator; a representative of the miners; and State Inspection Agency; or the MSHA District Manager or designee may request that a conference be conducted prior to mining through any plugged well to review, evaluate and accommodate any abnormal or unusual circumstance(s) related to the condition of the well or surrounding strata when such conditions are encountered. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide adequate opportunity for participation.
 - (c) Mining through a plugged well shall be done on a shift approved by the District Manager or designee. The District Manager or designee and the miners' representative shall be notified as to which shift mining will be done in close proximity to or through a plugged well.
 - (d) The District Manager or designee, representatives of the miners, the miners on the section, and the appropriate State agency shall be notified by the

operator in sufficient time in order to provide an opportunity to have representatives present.

- When using continuous or conventional mining methods, drivage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sights shall not be more than 50 feet from the well. When using longwall mining methods, drivage sights shall be installed on 10-foot centers for a distance of 50 feet in advance of the wellbore. The drivage sights shall be installed in the headgate and tailgate.
- (f) Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. When the longwall mining method is implemented, the fire hose shall be extended to the face area of the mine through. All fire hoses shall be ready for operation during the mining through.
- (g) Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs, shall be available within the immediate area of the mine through.
- (h) During the mine-through operation, the quantity of air required by the ventilation plan, but not less than 9,000 cubic feet per minute (cfm) of air, shall reach each working face where coal is being cut, mined, drilled for blasting, or loaded. The quantity of air required by the ventilation plan, but not less than 30,000 cfm, shall reach the working face of each longwall during the mine-through operation.
- (i) Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well and the water line maintained up to the tail piece with a sufficient amount of fire hose to reach the farthest point of penetration on the section.
- (j) The methane monitor on the longwall, continuous mining machine, or cutting machine and loading

machine shall be calibrated on the shift prior to mining through the well.

- (k) When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine, cutting machine, or loading machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 30 feet of the well. During the actual cutting through process, no individual shall be allowed on the return side until mining through has been completed and the area has been examined and declared safe.
- (1) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- (m) When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until adequate ventilation has been established around the wellbore.
- (n) After a well has been intersected and the working place determined safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- (o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- (p) The mining-through operation shall be under the direct supervision of a certified individual. Instructions concerning the mining-through operation shall be issued only by the certified individual in charge.

- (q) MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- (r) A copy of the decision approving this petition shall be maintained at the office of Gary No. 50 Mine and be available to the Secretary's representatives, miners' representatives and miners.
- (s) The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.
- (t) Within 60 days after this Proposed Decision and Order becomes final, the Petitioner shall submit proposed revisions for their approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the terms and conditions stated in the Proposed Decision and Order.
- III. This petition for modification applies to all types of mining such as continuous miner sections, continuous mining utilizing mobile bridge, and longwall.

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 4015 Wilson Boulevard, Arlington, Virginia 22203.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after

9

service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

Signed: Robert A. Elam

Robert A. Elam
Deputy Administrator
for Coal Mine Safety and Health

Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 3 m day of Waren, 1994, to:

Billy M. Tennant, Esq. U.S. Steel Mining Company, Inc. 600 Grant Street, Room 1580 Pittsburgh, Pennsylvania 15219 Ms. Linda Raisovich-Parsons Special Assistant United Mine Workers of America 900 Fifteenth Street, NW. Washington, DC 20005

MARY ANN GRIFFIN Mine Safety Clerk

cc: Mr. Stephen Weber

bcc: LF Phillips

L. Smith

D. White E. Fitch

P. Silvey

Case File

MCS:MAGriffin:mag: 02/15/94

WR-35 RECEIVED
W Division of
Environmental Protection

LOCATION:

16-Aug-94 API # 47-109-01458

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

NOV 2 3 1994 Permitting

Company: BOWIE, INC.

Well Operator's Report of Well Work

Faroniced Ol & GENCAHONTAS LAND CORP. Operator Well No.: PLC #25 Elevation: 1,510.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 1075 Feet South of 37 Deg. 32Min. 30 Sec.
Longitude 10740 Feet West of 81 Deg. 32 Min. 30 Sec.

P.O. BOX 1430 CLARKSBURG, WV 26301-1430 Agent: GROVER BOWIE Inspector: OFIE HELMICK 08/10/94 Permit Issued: Well work Commenced: 9-29-94 Well work Completed: 10-5-94

Verbal Plugging Permission granted on: Rotary X Cable Total Depth (feet) Rig 2396 DTD Fresh water depths (ft)

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N Coal Depths (ft): 250-57,290-93,310-14, 344-47,628-32,732-36

Casing &	Used in	İ	Fill Up		
Tubing	Drilling		Cu. PE.		
Size					
9 5/8"	31	-	-		
7"	884	884	150 sks	CTS	
4 1/2**	2326	2326'	130 sks	& TO BOTT	om iluG,
		Services defining	Reflect disease		
		1		Diffice RECEIVED	
				Ce of Oil and	
			A	AUG a Gas	S

OPEN FLOW DATA

Pay zone depth (ft) 2079 11400 Spartment of Hours Producing formation l.Maxton, Maxton Pay zone depth (ft) 20; Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Final open flow 712 MCF/d Final open flow N/A Time of open flow between initial and final tests 12 Static rock Pressure 270 psig (surface pressure) after

Second producing formation Maxton, Ravencliff Pay zone depth (ft)
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A
Final open flow comingled MCF/d Final open flow N/A
Time of open flow between initial and final tests 12 Bbl/d Hours Time of open flow between initial and final tests 12
Static rock Pressure comingled psig (surface pressure) after 24

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:	BOWIE,	INC.	1 1
	1	1 " 1 0 .	U
	By:	W. C. Bourse	C
	Date:	11/2/94	

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1 (2115-2246) 20 holes, 500gal 15%HCL, 450sks sand, 520bbl 75Q foam
11 (1898-2066) 25 holes, 500gal 15%HCL, 300sks sand, 400bbl 75Q foam
111 (1403-1462) 30 holes, 500gal 15%HCL, 500sks sand, 560bbl 75Q foam
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120 100		
SAND	0-34	
SAND & SHALE	34-250	1/4" 1120 150'
COAL	250-257	
SAND	257-290	
COAL	290-293	
SAND	293-310	
COAL	310-314	
SAND	314-344	
COAL	344-347	
SAND	347-628	
COAL	628-632	
SAND	632-732	
COAL	732-736	
SAND & SHALE	736-1050	
RAVENCLIFF	1384-1456	GAS SHOW
AVIS	1456-1505	
SAND & SHALE	1505-1865	
MAXTON	1865-2140	GAS SHOW
SHALE	2140-2228	
L. MAXTON	2228-2275	GAS SHOW
SHALE	2275-2356	
L. LIME	2356-2396	DTD

Office RECEIVED
AUG 24 2018

Environmental Protection

XX

L	10,740		47-10	91-01458 P
	10,740	LATITUDE	37°32'30"	1.5270
				1
POCA. LAND COOR.: NO. 25 ' N. 62,638.03' W. 8,150.30'	8/-			810 32,30"
	200	<i>**</i>		
INC	IAN JUSTICE OF THE STATE OF THE	PLC-2	9R. 25	LONGITUDE
	T- RAIL (1928) N68° 03'E 3601.21		SHOP BR.	
3e,	N14°26 E 036.66 636.66	CAR	BR.	
WELL REFERENCES: \$35°W, 110' TO 3" BEECH N72°E, 106' TO 8" W.OAK	[16]			
	and an	- \$ 990 231	(17)	
	The Law	∯ 1341 (1 1819	(e) (1998, (190.2(10)	
	CREEK	P(1340(16)	C-25 0 3000'	*
LAND SURVEYING SERVICES 21 CEDAR LAME BRIDGEPORT, WV 26330 PHONE: 304-842-2018		1539,		,
(+) DENOTES LOCATION OF WELL O	N UNITED STATES TOPOGRAPHIC MAPS	* 2301		
FILE NO	I THE UNDERSIGNED, HEREBY CERTHIS PLAT IS CORRECT TO THE BEST KNOWLEDGE AND BELIEF AND SHOWS INFORMATION REQUIRED BY LAW AND LATIONS ISSUED AND PRESCRIBED BY LAW MENT OF ENERGY.	BT OF MY S ALL THE THE REGU-		Office RECEIVED AUG 3 4 2018
ELEVATION BM 4800'S. OF LOCATION ELEV 1281	(SIGNED)	574 IEN D. LOSH	En PLACE SEAL HERI	VIV Department of
STATE OF WEST VIRGII DEPARTMENT OF ENERGY OIL AND GAS DIVISIO	DATE_OPERAT API WEI	ARRIL 25 FOR'S WELL NO.	,19 94 PLC NO. 25	Virginia Department of Protection
(IF "GAS,") PRODUCTION	JECTIONWASTE DISPOSALSTAT X_STORAGEDEEPSHALLOW_X MATER SHEDLICK_BR ANCH	E COUNTY	PERMIT	COL
DISTRICT CENTE QUADRANGLE P SURFACE OWNER POCAHONTAS OIL & GAS ROYALTY OWNER POCAHO	LAND CORP. NTAS LAND CORP. LEASE ACREAGE	ACREAGE	24 990. 40	V/ YO
STIMULATEPL	LEASE NO. 56244	N		PERMIT HAS
PLUG AND ABANDON CLEAN TARGET FORMATION MAX TON WELL OPERATOR BOWIE, INC. ADDRESS P. O. BOX 1430	ESTIMATED DEPTH260 0'DESIGNATED AGENTW	ILLIAM BOWIE		WIT 28
			26302-1430	

WW-4A	
Revised	6-07

1) Date: July 19th, 2	018			
2) Operator's Well Num P.L.C. #25	ber			
3) API Well No.: 47 -	109	_	01458	

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

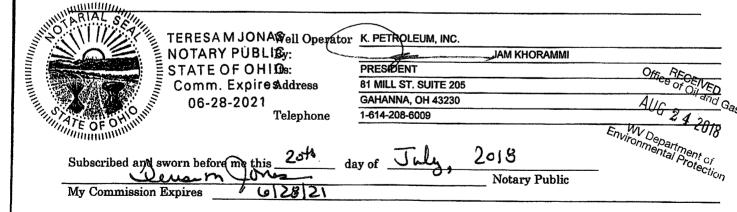
4) Surface Ow	ner(s) to be served:	5) (a) Coal Operator	graduate and the superior of the first of the second state of the second	
(a) Name	PINNACLE COAL COMPANY	Name	PINNACLE COAL COMPA	NY
Address	PO BOX 338	Address	PO BOX 338	
	PINEVILLE, WV 24874		PINEVILLE WV 24874	
(b) Name		(b) Coal Ow	ner(s) with Declaration	
Address		Name	NRP WPP, LLC	
		Address	5260 IRWIN RD	
			HUNTINGTON, WV 25705	
(c) Name		Name		
Address		Address		
6) Inspector	GARY KENNEDY	(c) Coal Less	see with Declaration	
Address	66 OLD CHURCH LANE	Name		NY & MECHEL BLUESTONE
	PIPESTEM, WV 25979	Address	PO BOX 338	PO BOX 1085
Telephone	304-382-8402		PINEVILLE, WV 24874	BECKELY, WV 25082

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.



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 depprivacyoffier@wv.gov.

API No.	47-109-01458
Farm Name	PLC
Well No.	25

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 then 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

	Y T de delate Y attent on the	
The undersigned coal operator/ own has examined this proposed plugging work order. done at this location, provided, the well operator Virginia Code and the governing regulations.	ner/ lessee/ of the coal under The undersigned has no objection to the wo has complied with all applicable requirem	rk proposed to be
Date: 8 10 2018	By: DAVID G. TRADER Its MING ENGINEER	Office RECEIVED AUG 24 1018 Environmental Protects
	PINNACLE COAL COMPANY	*5/1

API No.	47-109-01458
Farm Name	PLC
Well No.	25

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

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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.

Office RECEIVED
AUG 24 2018

Environmental Projection

WAIVER

The undersigned coal operator ____/ 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: 8-9-18

NRP WPP, LLC

WW-9 (5/16)

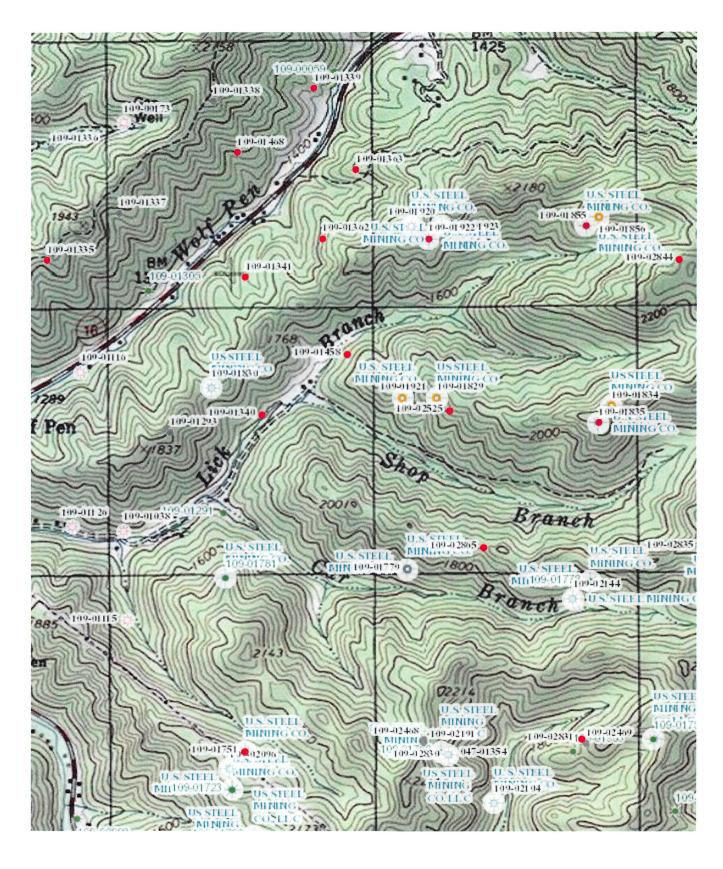
API Number	47 -	109	_01458
Operator's W	ell No	D.	

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name K. PETROLEUM, INC OP Code 306574
Watershed (HUC 10) LICK BRANCH Quadrangle PINEVILLE 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed well-work? Yes No V
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 Vac. Trk/portable pit is properly used to contain fluids; fluids disp. of off loc.
Will closed loop systembe used? If so, describe: n/a
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a
-If oil based, what type? Synthetic, petroleum, etc. ⊓/a
Additives to be used in drilling medium?n/a
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a
Office ECEIVED
-Landfill or offsite name/permit number? n/a -Landfill or offsite name/permit number? n/a AUG 4 2018
Permittee shall provide written notice to the Office of Oil and Cas 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 discontail protection 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 o btaining 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 Company Official Title PRESIDENT PRESIDENT
Subscribed and sworn before me this 20th day of July , 20 18 Notary Public TERESA MJONAS NOTARY PUBLIC STATE OF OHIO Comm. Expires 06-28-2021

Operator's Well No. P.L.C # 25

roposed Revegetation Treat	tment: Acres Disturbed 3.2	Preveg etation pF	6.67	
Lime 2	Tons/acre or to correct	to pH 6.5		
Fertilizer type	0-20 EQUIVALENT			
Fertilizer amount 5	00	lbs/acre		
Mulch_STRAW		Tons/acre		
		Seed Mixtures		
Te	emporary	Perma	nent	
Seed Type	lbs/acre	TALL FESCURE	lbs/acre 40	
		LADINO CLOVER	5	
rovided). If water from the L, W), and area in acres, of	pit will be land applied, prov	application (unless engineered plans include ide water volume, include dimensions (L,	ling this info have been W, D) of the pit, and dime	
Iaps(s) of road, location, provided). If water from the L, W), and area in acres, of hotocopied section of invo	pit will be land applied, prov the land application area. lved 7.5' topographic sheet.	ide water volume, include dimensions (L,	W, D) of the pit, and dime	
Iaps(s) of road, location, provided). If water from the L, W), and area in acres, of hotocopied section of invo	pit will be land applied, prov the land application area.	ide water volume, include dimensions (L,	W, D) of the pit, and dime	
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http://deparcgis1/ooggis/index.html?x=448911&y=4154811.7&datum=NAD83&pntlabel... 10/15/2018

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

	CATION FORM: G		
API: 47- 107 -01458	WELL NO).:#25	
API: 47-107-01458 FARM NAME: POCAHON	ITAS LAND COF	RP.	
RESPONSIBLE PARTY NAME:	K. PETROLEUN	I, INC.	
COUNTY: WYOMING QUADRANGLE: PINEVILL	DISTRICT:	CENTER	
QUADRANGLE: PINEVILL	E 7.5		
SUBER CE OVERER PINNO	ALE COAL COM	PANY	
ROYALTY OWNER: PINNA	CLE COAL COM	IPANY	
UTM GPS NORTHING: 41548	311.7		
UTM GPS EASTING: 448911	GPS ELEV	ATION: 1510	
height above mean sea le 2. Accuracy to Datum – 3.0 3. Data Collection Method: Survey grade GPS: Post Pro Real-Ti Mapping Grade GPS: Post Real 4. Letter size copy of the to	ra plugging permit or assignas will not accept GPS coord 1: 17 North, Coordinate Units vel (MSL) – meters. 5 meters 1: 17 meters 1: 17 North, Coordinate Units vel (MSL) – meters. 1: 18 meters 18 m	e well location.	
I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	data is correct to the best of required by law and the regu	my knowledge and	
	PRESIDENT	7/19/18	
Signature	Title	Date	