



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

Friday, December 15, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC.
46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for 2
47-051-00687-00-00

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:
Farm Name: FRANCIS, FRANCIS J.
U.S. WELL NUMBER: 47-051-00687-00-00
Vertical Plugging
Date Issued: 12/15/2023

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 OCTOBER 30, 20 23
2) Operator's
Well No. SGW-67
3) API Well No. 47-41-00667

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 ___ or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 1232.57' Watershed WHERRY RUN OF GRANDSTAFF RUN OF WHEELING CREEK
District SANDHILL County MARSHALL Quadrangle VALLEY GROVE, WV

6) Well Operator WEST VIRGINIA LAND RESOURCES INC. 7) Designated Agent DAVID RODDY
Address 1 BRIDGE STREET Address 1 BRIDGE STREET
MONONGAH, WV 26554 MONONGAH, WV 26554

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name STRADER GOWER Name
Address 2525W ALEXANDER RD. Address
VALLEY GROVE, WV 26060

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

See Exhibit No. 1 and MSHA 101-C Exemption

OHIO

Marshall County Mine (MSHA ID# 46-01436)

MSHA 101-C Docket No. M-2016-020-C

Approximate Surface Elevation = 1232.57'

Approximate Bottom Of Coal = 553.00'

Approximate Depth = 679.57'

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

Work order approved by inspector Strader Gower Date 11/07/2023

12/22/2023

IV-35
(Rev. 6-81)

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SEP 22 1983

Date September 12, 1983

State of West Virginia

Operator's Raymond #2
Well No: Raymond #2
Farm Raymond Francis

OIL & GAS DIVISION Department of Mines
DEPT. OF MINES Oil and Gas Division

API No. 47 - 051 - 0687

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1223 Watershed Wherry Run
District: Sand Hill County: Marshall Quadrangle Valley Grove

COMPANY Braxton Oil & Gas Corp.
ADDRESS 11092 Quail Creek Rd., Okla. City, OK
DESIGNATED AGENT C.T. Corporation
ADDRESS 1700 Chas. Nat'l. Plaza, Chas., WV
SURFACE OWNER Raymond Francis
ADDRESS R.D. #3, Box 109A, Elm Grove, WV 26003
MINERAL RIGHTS OWNER Raymond Francis
ADDRESS R.D. #3, Box 109A, Elm Grove, WV 26003
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, WV

PERMIT ISSUED 12/28/81
DRILLING COMMENCED 8/11/82
DRILLING COMPLETED 8/14/82
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL RE-MISSION OBTAINED ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8"			
8 5/8"	1016'	1016'	260
7"			
5 1/2"			
4 1/2"	2060'	2060'	250 sks
3"			
2"			
Liners used			

GEOLOGICAL TARGET FORMATION Squaw Sand Depth 2100 feet

Depth of completed well 2103 feet Rotary X / Cable Tools
Water strata depth: Fresh 80 feet; Salt 1520 feet
Coal: 222 depths: 173-176 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation well did not respond to fracturing-will P. & A. Pay zone depth n/a feet
Gas: Initial open flow 75,000 cf/d Oil: Initial open flow 0 Bbl/d
Final open flow NEG Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests n/a hours
Static rock pressure n/a psig (surface measurement) after n/a hours shut in

(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

Marsh

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(Continue on next page)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

11/16/82, Fractured the Injun. Sand with 2000 gal. acid, 50 Bbls. water.
Fractured the Salt Sand with 500 gal. acid, 460 Bbls. water and
15,000 # 20/40 sand.

FORMATION - COLOR - HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
sand & shale	0	30	
red rock	30	40	
sand & shale	40	173	water @ 80'
coal	173	176	
sand & shale	176	542	
lime	542	600	
sand & shale	600	960	
red rock	960	1136	
sand & shale	1136	1572	
salt sand	1572	1620	
sandy shale	1620	1650	
salt sand	1650	1700	
sandy shale	1700	1708	
big lime	1708	1830	
Injun	1830	1982	
sandy shale	1982	2100	

(Attach separate sheets as necessary)

Braxton Oil & Gas Corp.

Well Operator

By: *Shirley J. DeBee* Secretary/Treasurer

Date: September 29, 1983

Note: Regulation 2.02(i) provides as follows:
"The log or 'well log' shall mean a systematic
record of all formations, including
the drilling of a well."



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

Select County: (051) Marshall (Check All)

Enter Permit #: 00687

Location Production Plugging

Owner/Completion Stratigraphy Sample

Pay/Show/Water Logs Blm Hole Loc

WV Geological & Economic Survey.

Well: County = 51 Permit = 00687 [Link to all digital records for well](#)

Report Time: Friday, December 15, 2023 3:17:17 PM

Location Information: [View Map](#)

API	COUNTY PERMIT TAX_DISTRICT QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
4705100687	Marshall 687 Sand Hill Valley Grove Wheeling	40.015831	-80.585393	535392.6	4429607.7	

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE_NUM	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4705100687	8/14/1982		Original Loc	Completed	Raymond Francis	2			Raymond Francis	Braxton Oil & Gas Corp.			

Completion Information:

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	NGL_BEF	NGL_AFT	P_BEF	TI_BEF	P_AFT	TI_AFT
4705100687	8/14/1982	8/11/1982	1223 Ground Level	Unnamed Big Injun (undrf)	1223	1223	Ground Level	Development Well	Unsuccessful	Dry w/ Gas Show	Rotary Acid-Frac	2100	2100				75	0	0	0	0	0	0	0	0

There is no Pay data for this well

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

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100687	Braxton Oil & Gas Corp.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0

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.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100687	Braxton Oil & Gas Corp.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_BOTTOM	QUALITY	THICKNESS	THICKNESS	QUALITY	ELEV DATUM
4705100687		Original Loc	unidentified coal	176	Reasonable	3	Reasonable			1223 Ground Level
4705100687		Original Loc	Hughes River Flint	1190	Reasonable	4	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey ss (undrf)	1270	Reasonable	3	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey ss (undrf)	1286	Reasonable	47	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey ss (undrf)	1342	Reasonable	3	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey coal (udf)	1358	Reasonable	3	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey ss (undrf)	1369	Reasonable	21	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey coal (udf)	1411	Reasonable	2	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey coal (udf)	1460	Reasonable	7	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey ss (undrf)	1472	Reasonable	34	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey coal (udf)	1497	Reasonable	2	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Alleghey coal (udf)	1533	Reasonable	48	Reasonable			1223 Ground Level
4705100687		Original Loc	1st Salt Sand	1574	Reasonable	48	Reasonable			1233 Kelly Bushing
4705100687		Original Loc	Pottsville Ss (undrf)	1650	Reasonable	50	Reasonable			1223 Ground Level
4705100687		Original Loc	2nd Salt Sand	1700	Reasonable					1233 Kelly Bushing
4705100687		Original Loc	Miss/Penn boundary	1708	Reasonable	122	Reasonable			1223 Ground Level
4705100687		Original Loc	Greenbrier Group	1708	Reasonable	122	Reasonable			1223 Ground Level
4705100687		Original Loc	Big Lime	1830	Reasonable	152	Reasonable			1223 Ground Level

Wireline (E-Log) Information:

API	STATUS	LOG TOP	LOG BOT	DEEPEST_FM	LOGS_AVAILABLE	SCAN	GR_TOP	GR_BOTTOM	D_TOP	D_BOTTOM	N_TOP	N_BOTTOM	I_TOP	I_BOTTOM	T_TOP	T_BOTTOM	S_TOP	S_BOTTOM	O_TOP	O_BOTTOM	INCH2	INCH5	REDUCED	KOP	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSQRD_FR
4705100687	Regular Entry	1020	2100		Y		1020	2092	1032	2099			2094	2100							1032	2099	Y	Y				

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

Downloadable Log Images/Data: We advise you to save the scanned log or digitized log file(s) to your PC for viewing. To do so, right-click the file of interest and select the save option. Then you can direct the file to a location of your choice. Please note the scanned log images vary in size and some may take several minutes to download.

Quick Reference Guide for Log File Names

- g geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e gamma ray
- p photoelectric adsorption (PE or Pe, etc.)
- i induction (includes dual induction, medium induction, deep induction, etc.)
- l laterolog
- m dipmeter
- n neutron (includes neutron porosity, sidewall neutron-SWN, etc.)
- o other*
- s sonic or velocity



- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential
- mechanical log types:
 - b cement bond
 - c calliper
 - o other¹
 - p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL—casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL—Nuclear Cement Top Locator, radioactive tracer, tension

Plugging Information:

API	PLG_DT	DEPTH_PBT
4705100687	8/31/1983	0

There is no Sample data for this well

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EXHIBIT No.1

From the experience and technology developed since 1970 in plugging oil and gas wells for the mining through, West Virginia Land Resources will utilize the following method to plug all future wells.

SOLID PLUG METHOD

Well Clean Out

- (a) If active well: Clean out to the total depth and plug back according to the state regulations to a minimum of 200 feet below the lowest minable coal seam.
- (b) If abandoned well: Clean out to the first plug 200 feet below the lowest minable coal seam.

Cement

- (a) Circulate through the tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below the minable coal seam to a point 100 feet above the minable coal seam.
- (b) Circulate through the tubing or drill steel an expanding Class A cement plug from 100 feet above the coal seam to the surface

A monument will be installed with API number and stating "solid plug."

Ohio County 101C

Docket No. M-2016-020-C

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101C MSHA Petition Summary
Marshall County Coal
Ohio County Coal

I. **Definitions**

- A. Diligent Effort is defined as pulling 150% casing weight and making at least 3 attempts.
Assume casing is 3,000' when length is unknown.

II. **Active Well**

- A. Check for Methane
B. Notify MSHA we are plugging an active well
C. Kill Well
D. Pull Sucker Rods and tubing
E. Make Diligent Effort to Pull Casing
F. If casing cannot be pulled...
 i. Run Bond Log
 1. Discuss Action Plan with Mine Personal
 ii. Notify MSHA that casing cannot be pulled
 iii. Cut, rip, or perforate every 200'. First cut will be 200' above the end of casing up to 200' below Pittsburgh coal
 1. MSHA can waive 200' cuts if bond log shows adequate material behind casing.
 iv. Cut, Rip, or Perforate every 50' from 200' below Pittsburgh to 100' above Pittsburgh (see Appendix A).
 v. Cut, Rip, or Perforate every 5' from 10' below Pittsburgh Coal to 10' above Pittsburgh (see Appendix A).
G. Pump Class A Cement from TD to 200' below Pittsburgh
H. Pump Thixotropic Cement from 200' below Pittsburgh to 100' above
I. Pump Class A cement from 100' above Pittsburgh to surface.
J. Install Well Marker

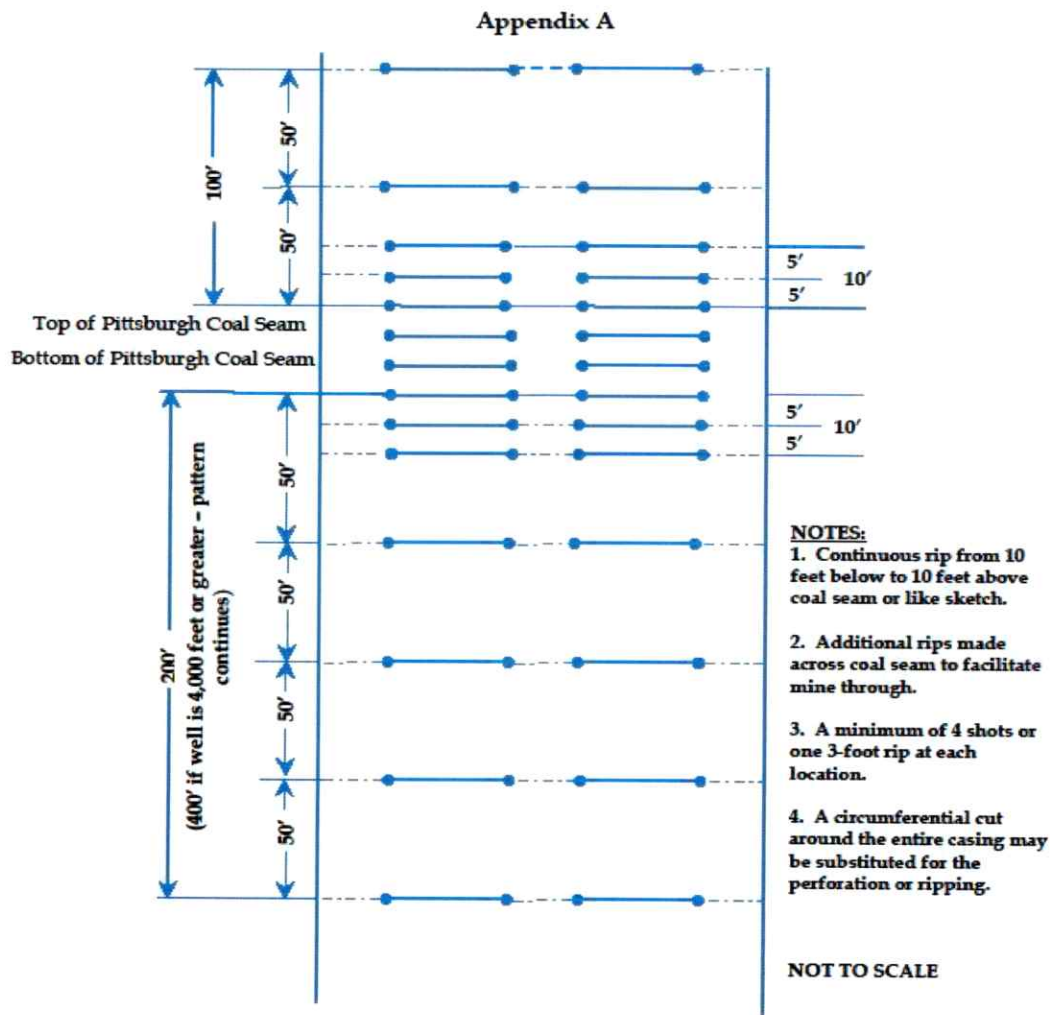
III. **Abandoned Well**

- A. Check for Methane
 i. Notify MSHA if actively producing methane
B. Kill Well
C. If well is less than 4,000' deep, clean out well 220' below Pittsburgh (cleanout an extra 20' to allow for variance in coal elevation).
D. If well has casing, make diligent effort to pull casing as defined above.
E. If casing cannot be pulled...
 i. Run Bond Log
 ii. Notify MSHA that casing cannot be pulled
 iii. Cut, Rip, or Perforate every 50' from 200' below Pittsburgh to 100' above Pittsburgh (see Appendix A).

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- iv. Cut, Rip, or Perforate every 5' from 10' below Pittsburgh Coal to 10' above Pittsburgh (see Appendix A).
- F. Pump expanding cement under 200 PSI to form a plug 200' below Pittsburgh
- G. Verify plug
- H. Pump Class A Cement from verified plug to 200' below Pittsburgh
- I. Pump Thixotropic Cement from 200' below Pittsburgh to 100' above
- J. Pump Class A cement from 100' above Pittsburgh to surface.
- K. Install well marker



***If the depth is greater than 4,000 feet, all 200' number change to 400' respectively

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In the matter of:
The Ohio County Coal Company
Ohio County Mine
I.D. No. 46-01436

Petition for Modification

Docket No. M-2016-020-C

DECISION AND ORDER

On May 31, 2016, a petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to The Ohio County Coal Company's Ohio County Mine located in Ohio County, West Virginia. The Petitioner filed the petition to permit an alternative method of compliance with the standard with respect to vertical to horizontal oil and gas wells into the underground coal seams. The petitioner request to amend the Proposed Decision and Order (PDO) granted by MSHA on October 17, 1990, under Docket M-1990-066-C, formerly known as Consolidation Coal Company, Shoemaker Mine. On March 4, 2005 this PDO was revoked, because the mining conditions at the mine changed and the surface openings to the mine were permanently abandoned and sealed. Therefore, Docket M-1990-066-C cannot be amended, but the present petition may be granted under the terms set forth below.

The Petitioner alleges that the proposed alternative method will at all times guarantee no less than the same measure of protection afforded miners under 30 C.F.R. § 75.1700 as that provided by the standard, which states:

§ 75.1700 Oil and gas wells.

Each operator of a coal mine shall take reasonable measures to locate oil and gas wells penetrating coalbeds or any underground area of a coal mine. When located, such operator shall establish and maintain barriers around such oil and gas wells in accordance with State laws and regulations, except that such barriers shall not be less than 300 feet in diameter, unless the Secretary or his authorized representative permits a lesser barrier consistent with the applicable State laws and regulations where such lesser barrier will be adequate to protect against hazards from such wells to the miners in such mine, or unless the Secretary or his authorized representative requires a greater barrier where the depth of the mine, other geologic conditions, or other factors warrant such a greater barrier.

The Petition addresses items for which District Manager approval is required, procedures for cleaning out and preparing oil and gas wells prior to plugging or re-plugging, procedures for plugging or re-plugging oil or gas wells to the surface, procedures for plugging or re-plugging oil or gas wells for use as degasification

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boreholes, alternative procedures for preparing and plugging or re-plugging oil or gas wells, and procedures after approval has been granted to mine through a plugged or re-plugged well.

On August 2, 2016 MSHA personnel conducted an investigation of the petition and filed a report of their findings with the Administrator for Coal Mine Safety and Health.

The mine is represented by United Mine Workers of America (UMWA), AFL-CIO, CLC-1473 with miners' representatives. The miner's representatives did not provide any questions or comments regarding the petition for modification.

After review of the parties' submissions and Joint Motion for Settlement, the following Decision and Order is issued.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

The Ohio County Mine employs approximately 466 miners and produces approximately 32,000 tons of bituminous coal per day from the Pittsburgh #8 coal seam with an average mine height of 70 inches. At this time, there are no coal seams being mined below (i.e., stratigraphically down section from) the Pittsburgh seam. The mine is accessed through 10 exhausting fans. The mine operates 3 production shifts per day, 5 days per week, on two advancing gate sections and one longwall. The mine liberates 4,226,489 cubic feet of methane on a daily basis.

Although MSHA has granted modifications of this standard at different mines over the years, changing circumstances in oil and gas drilling technology and practices compels MSHA to reconsider the safest approach to mining around or through such wells. In recent years, changes in hydraulic fracturing (fracking) technology, marketplace and resource conditions have led to an increase in the number and depth of oil and gas wells penetrating the Pittsburgh #8 and other coal seams. Since deeper wells are usually associated with higher well pressures, modifications of § 75.1700 must include appropriate measures to better protect miners. In addition to the risks associated with higher well pressures, MSHA is concerned that operators may be preparing and plugging wells to inadequate depths for convenience or to lower costs, which may result in reduced safety for miners.

This Decision and Order reflects the settlement between the Petitioner's proposal and the amended terms and conditions first set forth by MSHA, under the terms set forth below. The major points of compromise include the following:

1. *Making a diligent effort to remove the casing to the original total depth.* If all of the casing can be removed, or if the well contains no casing, the operator shall prepare the well for plugging, and use seals described below, for wells less than

4,000' depth to seal to 200 feet below the coal seam to be mined, or the lowest mineable seam, whichever is lower, or for wells 4,000' deep or greater, seal 400 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower. MSHA retains the right to review and direct the operator's sealing protocol, in the event geologic or well conditions require further measures. As used in this Proposed Amended Decision and Order, in order to make a diligent effort to remove the casing, the operator shall pull a minimum of 150% of casing string weight and/or have made at least three attempts to spear or overshot to grip the casing for the required minimum pull effort. Where casing string length is unknown, a 3,000' casing string will be assumed. The operator shall keep a record of these efforts, including casing length and weights, and make available for MSHA review. The District Manager reserves the right to require additional measures in efforts to remove casing, as appropriate.

2. *Unknown total depth.* If the total depth of the well is unknown the operator must contact the District Manager before proceeding. MSHA believes, by including this step in the process, that miner safety will be better served because the Petitioner and the District Manager can work together to evaluate the conditions of the well to be plugged as well as the safest way to accomplish the plugging. MSHA and the operator will work cooperatively to establish a communications protocol, so that the operator may contact the District Manager while working outside normal working hours.
3. *Cement.* Cement is specified to be used as a plugging material, instead of an unnamed "approved equivalent," as requested by Petitioner.
4. *Wells vary in depth.* The terms and conditions required by MSHA will require operator to prepare these wells for safe intersection by making a diligent effort to remove casing to the total depth if possible, then: cleaning to and setting a plug at least 200' below the coal seam to be mined or lowest mineable seam, whichever is lower; or for wells 4,000' or greater, to at least 400 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower. The operator will then plug from either the attainable bottom or the newly installed plug, as applicable, by pumping expanding cement slurry and pressurizing to at least 200 psi. If the total depth is not reached and casing cannot be removed, these alternative methods included in this proposed decision and order have proven to be safe and effective when properly implemented.
5. *Notification* – Where the operator is required to notify the District Manager pursuant to the terms of this Proposed Decision and Order, the method of notification will be set forth in the cut-through procedures for each well. The District Manager agrees to provide a number wherein he or his designee is available at all times.

Therefore, the terms and conditions as amended will at all times guarantee no less than the same measure of protection afforded the miners under 30 C.F.R. § 75.1700 for all wells regardless of depth. On the basis of the Petition, comments received, the findings of MSHA's investigation, and the parties' Joint Motion for Settlement, the Ohio County Coal Company is granted a modification of the application of 30 C.F.R. § 75.1700 to its Ohio County Mine.

ORDER

Under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at The Ohio County Coal Company's Ohio County Mine is hereby:

GRANTED, subject to the following terms and conditions:

1. DISTRICT MANAGER APPROVAL REQUIRED

- a. The type of oil or gas well that will be considered under this Petition includes wells that have been depleted of oil or gas production or have not produced oil or gas and may have been plugged, or active conventional vertical wells which are not producing gas or oil, subject to the provisions below. Unconventional wells in the Marcellus, Utica, and all other unconventional shale oil and gas wells are not subject to this modification. Nothing in these provisions is meant to lessen, diminish, or substitute any provision found in applicable state laws or regulations.
- b. A safety barrier of 300 feet in diameter (150 feet between any mined area and a well) shall be maintained around all oil and gas wells (defined herein to include all active, inactive, abandoned, shut-in, previously plugged wells, water injection wells, and carbon dioxide sequestration wells) until approval to proceed with mining has been obtained from the District Manager. Wells that were drilled into potential oil or gas producing formations that did not produce commercial quantities of either gas or oil (exploratory wells, wildcat wells or dry holes) are classified as oil or gas wells by MSHA.
- c. Prior to mining within the safety barrier around any well that the mine plans to intersect, the mine operator shall provide to the District Manager a sworn affidavit or declaration executed by a company official, the person at the mine who is in charge of health and safety at the mine, stating that all mandatory

procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order.

The affidavit or declaration must be accompanied by all logs, electronic or otherwise, described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs which the District Manager may request. The District Manager will review the affidavit or declaration, the logs and any other records that have been requested, and may inspect the well itself, and will then determine if the operator has complied with the procedures for cleaning out, preparing, and plugging each well as described by the terms and conditions of this Order. If the District Manager determines that the procedures have been complied with, he will provide his approval, and the mine operator may then mine within the safety barrier of the well, subject to the terms of this Order.

If well intersection is not planned, the mine operator may request a permit to reduce the 300 foot diameter of the safety barrier that does not include intersection of the well. The District Manager may require documents and information that help verify the accuracy of the location of the well in respect to the mine maps and mining projections. This information may include survey closure data, down-hole well deviation logs, historical well intersection location data and any additional data required by the District Manager. If the District Manager determines that the proposed barrier reduction is reasonable, he will provide his approval, and the mine operator may then mine within the safety barrier of the well.

d. The terms and conditions of this Order apply to all types of underground coal mining.

2. MANDATORY PROCEDURES FOR CLEANING OUT, PREPARING, PLUGGING, AND RE-PLUGGING OIL OR GAS WELLS

a. **MANDATORY PROCEDURES FOR CLEANING OUT AND PREPARING VERTICAL OIL AND GAS WELLS PRIOR TO PLUGGING OR RE-PLUGGING**

The mine operator shall test for gas emissions inside the hole before cleaning out, preparing, plugging, and re-plugging oil and gas wells. The District Manager shall be contacted if the well is actively producing gas.

(1) A diligent effort shall be made to remove all the casing in the well and clean the well to 200' below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, or for wells 4,000' or greater,

clean the well to 400' below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower.

If the total depth of the well is less than 4,000 feet, the operator shall completely clean out the well from the surface to at least 200 feet below the coal seam to be mined, unless the District Manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well. The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the coal seam to be mined. Wells of this greater depth are under greater pressure, so the 400 feet requirement provides greater protection for miners. The operator shall make a diligent effort to remove all material from the entire diameter of the well, wall to wall. If the total depth of the well is unknown and there is no historical information, the mine operator must contact the District Manager before proceeding.

Where active wells which are no longer producing are being cleaned and prepared subject to this order, the operator must: 1) attempt to remove all of the casing using a diligent effort, and comply with all other applicable provisions in this order, or 2) if the casing cannot be removed from the total depth, must be filled with cement from the lowest possible depth to 200 feet below the seam to be mined or lowest mineable coal seam, whichever is lower for wells less than 4,000', or 400 feet below the seam to be mined or lowest mineable coal seam, whichever is lower, for wells 4,000' or greater, and the other applicable provisions in this order still apply, or 3) if the casing cannot be removed it shall be perforated from 200 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower, or 400 feet below the seam to be mined or lowest mineable coal seam, whichever is lower, for wells 4,000' or greater, and the annuli shall be cemented or otherwise filled, and the other applicable provisions in this order still apply.

- (2) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if appropriate, a deviation survey, and a gamma survey for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, potential hydrocarbon producing strata and the location of any existing bridge plug. In addition, a journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion

of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning cleaning and sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.

- (3) When cleaning out the well as provided for in subparagraph (a)(1), the operator shall make a diligent effort to remove all of the casing in the well. Thereafter, the well should be plugged to the attainable bottom, at least 200 feet below the coal seam to be mined or lowest mineable seam, whichever is lower, by pumping expanding cement slurry and pressurizing to at least 200 psi. If the casing cannot be removed, it must be cut, milled, perforated or ripped at sufficient intervals to facilitate the removal of any remaining casing in the coal seam by the mining equipment. Any casing which remains shall be perforated or ripped to permit the injection of cement into voids within and around the well. All casing remaining at the coal seam to be mined shall be perforated or ripped at least every 5 feet from 10 feet below the coal seam to 10 feet above the coal seam.

Perforations or rips are required at least every 50 feet from 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam up to 100 feet above the uppermost mineable coal seam. For perforations in the Pittsburgh Seam, see Appendix A. The mine operator must take appropriate steps to ensure that the annulus between the casing and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids.

Jet/sand cutting is one method for ripping or perforating casing with three or more strings of casing in the Pittsburgh coal seam in preparation for mining. This method uses compressed nitrogen gas and sand to cut the well casings as outlined in Appendix A. On active wells cuts start at 200' above the bottom of the casing at 200' intervals, to 200' below the bottom of the Pittsburgh coal seam where Appendix A outlines cut interval minimums.

If it is not possible to remove all of the casing, the operator shall notify the District Manager before any other work is performed. **If the well cannot be cleaned out or the casing removed, the operator shall prepare the well as described from the surface to at least 200 feet below the base of the lowest mineable coal seam for wells less than 4000 feet in depth and 400 feet below the lowest mineable coal seam for wells 4000 feet or**

greater, unless the District Manager requires cleaning out and removal of casing to a greater depth based on his judgement as to what is required due to geological strata, or due to the pressure within the well.

If the operator, using a casing bond log, can demonstrate to the satisfaction of the District Manager that all annuli in the well are already adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

- (4) If the District Manager concludes that the completely cleaned-out well is emitting excessive amounts of gas, the operator must place a mechanical bridge plug in the well.

It must be placed in a competent stratum at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam, but above the top of the uppermost hydrocarbon-producing stratum, unless the District Manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well. The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used. The mine operator shall document what has been done to “kill the well” and plug the hydrocarbon producing strata.

- (5) If the upper-most hydrocarbon-producing stratum is within 300 feet of the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, the operator shall properly place mechanical bridge plugs as described in subparagraph (a)(4) to isolate the hydrocarbon-producing stratum from the expanding cement plug.
Nevertheless, the operator shall place a minimum of 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.

b. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL OR GAS WELLS TO THE SURFACE

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be used to plug or re-plug wells:

- (1) **The operator shall pump expanding cement slurry down the well to form a plug which runs from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, (or lower if required by the District Manager based on his judgment that a lower depth is required due to the geological strata, or due to the pressure within the well) to the surface.** The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. Portland cement or a lightweight cement mixture may be used to fill the area from 100 feet above the top of the uppermost mineable coal seam (or higher if required by the District Manager based on his judgment that a higher distance is required due to the geological strata, or due to the pressure within the well) to the surface.
- (2) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger diameter casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing. When the hole cannot be marked with a physical monument (e.g. prime farmland), high-resolution GPS coordinates (one-half meter resolution) are required.

c. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL AND GAS WELLS FOR USE AS DEGASIFICATION WELLS

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be utilized when plugging or re-plugging wells that are to be used as degasification wells:

- (1) **The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.** The expanding cement will be placed in the well under a pressure of at least 200 pounds

per square inch. The top of the expanding cement shall extend at least 50 feet above the top of the coal seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.

- (2) The operator shall securely grout into the bedrock of the upper portion of the degasification well a suitable casing in order to protect it. The remainder of this well may be cased or uncased.
- (3) The operator shall fit the top of the degasification casing with a wellhead equipped as required by the District Manager in the approved ventilation plan. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.
- (4) Operation of the degasification well shall be addressed in the approved ventilation plan. This may include periodic tests of methane levels and limits on the minimum methane concentrations that may be extracted.
- (5) After the area of the coal mine that is degassed by a well is sealed or the coal mine is abandoned, the operator must plug all degasification wells using the following procedures:
 - (i) The operator shall insert a tube to the bottom of the well or, if not possible, to within 100 feet above the coal seam being mined. Any blockage must be removed to ensure that the tube can be inserted to this depth.
 - (ii) The operator shall set a cement plug in the well by pumping Portland cement or a lightweight cement mixture down the tubing until the well is filled to the surface.
 - (iii) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.
 - (iv) This provision does not apply to traditional degasification holes which have not intersected the seam to be mined, have not commercially produced gas and have no API number.

d. MANDATORY ALTERNATIVE PROCEDURES FOR PREPARING AND PLUGGING OR RE-PLUGGING OIL OR GAS WELLS

The following provisions apply to all wells which the operator determines, and with which the MSHA District Manager agrees, cannot be completely cleaned out due to damage to the well caused by subsidence, caving, or other factors.

- (1) **The operator shall drill a hole adjacent and parallel to the well, to a depth of at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.**
- (2) The operator shall use a geophysical sensing device to locate any casing which may remain in the well.
- (3) If the well contains casing(s), the operator shall drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the operator shall perforate or rip all casings at least every 5 feet. **Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, up to 100 feet above the seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.** The diagram shown in Appendix A is representative of the locations of the perforations or ripping that must be done.

The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the District Manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of

ripping or perforating multiple strings.

- (4) Where the operator determines, and the District Manager agrees, that there is insufficient casing in the well to allow the method outlined in subparagraph (d)(3) to be used, then the operator shall use a horizontal hydraulic fracturing technique to intercept the original well. **From at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, to a point at least 50 feet above the seam being mined, the operator shall fracture in at least six places at intervals to be agreed upon by the operator and the District Manager after considering the geological strata and the pressure within the well.** The operator shall then pump expanding cement into the fractured well in sufficient quantities and in a manner which fills all intercepted voids.
- (5) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if applicable, a deviation survey, and a gamma log for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, **or lowest mineable seam, whichever is lower,** potential hydrocarbon producing strata and the location of any existing bridge plug. The operator may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment necessary to obtain the log.
- (6) A journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
- (7) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the adjacent hole, from the bottom to the surface, with Portland cement or a lightweight cement mixture.

The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level.

A combination of the methods outlined in subparagraphs (d)(3) and (d)(4) may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The operator and the District Manager shall discuss the nature of each hole. The District Manager may require that more than one method be utilized. The mine operator may submit an alternative plan to the District Manager for approval to use different methods to address wells that cannot be completely cleaned out. The District Manager may require additional documentation and certification by a registered petroleum engineer to support the proposed alternative methods.

3. MANDATORY PROCEDURES WHEN MINING WITHIN A 100-FOOT DIAMETER BARRIER AROUND WELL

- a. A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA District Manager may request that a conference be conducted prior to intersecting any plugged or re-plugged well. Upon receipt of any such request, the District Manager shall schedule such a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation. The purpose of the conference shall be to review, evaluate, and accommodate any abnormal or unusual circumstance related to the condition of the well or surrounding strata when such conditions are encountered.
- b. The operator shall intersect a well on a shift approved by the District Manager. The operator shall notify the District Manager and the miners' representative in sufficient time prior to intersecting a well in order to provide an opportunity to have representatives present.
- c. When using continuous mining methods, the operator shall install drivage sights at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well. When using longwall-mining methods, distance markers shall be installed on 5-foot centers for a distance of 50 feet in advance of the well in the headgate entry and in the tailgate entry.
- d. The operator shall ensure that fire-fighting equipment including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the well intersection (when either the conventional or continuous mining method is used) is available and operable during all well intersections. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt

conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient.

- e. The operator shall ensure that sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, emergency plugs and suitable sealing materials shall be available in the immediate area of the well intersection.
- f. On the shift prior to intersecting the well, the operator shall service all equipment and check it for permissibility. Water sprays, water pressures, and water flow rates used for dust and spark suppression shall be examined and any deficiencies corrected.
- g. The operator shall calibrate the methane monitor(s) on the longwall, continuous mining machine, or cutting machine and loading machine on the shift prior to intersecting the well.
- h. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within 30 feet of the well until the well is intersected. During the actual cutting process, no individual shall be allowed on the return side until the well intersection has been completed, and the area has been examined and declared safe. All workplace examinations on the return side of the shearer will be conducted while the shearer is idle. The operator's most current Approved Ventilation Plan will be followed at all times unless the District Manager deems a greater air velocity for the intersect is necessary.
- i. 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 intersecting 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.
- j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area to be safe before permitting mining to resume.
- k. After a well has been intersected and the working place determined to be safe, mining shall continue in by the well a sufficient distance to permit adequate ventilation around the area of the well.

- l. If the casing is cut or milled at the coal seam level, the use of torches should not be necessary. However, in rare instances, torches may be used for inadequately or inaccurately cut or milled casings. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore and methane levels of less than 1.0% are present in all areas that will be exposed to flames and sparks from the torch. The operator shall apply a thick layer of rock dust to the roof, face, floor, ribs and any exposed coal within 20 feet of the casing prior to the use of torches.
- m. Non-sparking (brass) tools will be available and will be used exclusively to expose and examine cased wells.
- n. No person shall be permitted in the area of the well intersection except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- o. The operator shall alert all personnel in the mine to the planned intersection of the well prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well has been mined through.
- p. The well intersection shall be under the direct supervision of a certified individual. Instructions concerning the well intersection shall be issued only by the certified individual in charge.
- q. If the mine operator cannot find the well in the longwall panel or if a development section misses the anticipated intersection, the operator shall cease mining to examine for hazardous conditions at the projected location of the well, notify the District Manager, and take reasonable measures to locate the well, including visual observation/inspection or through survey data. Mining may resume if the well is located and no hazardous conditions exist. If the well cannot be located, the mine operator shall work with District Manager to resolve any issues before mining resumes.
- r. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the well intersection, and to issue a withdrawal order, when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the well

intersection and/or a withdrawal of personnel by issuing either a verbal or written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.

- s. A copy of this Order shall be maintained at the mine and be available to the miners.
- t. If the well is not plugged to the total depth of all minable coal seams identified in the core hole logs, any coal seams beneath the lowest plug will remain subject to the barrier requirements of 30 C.F.R. § 75.1700, should those coal seams be developed in the future.
- u. All necessary safety precautions and safe practices according to Industry Standards, required by MSHA regulations and State regulatory agencies having jurisdiction over the plugging site will be followed to provide the upmost protection to the miners involved in the process.
- v. All miners involved in the plugging or re-plugging operations will be trained on the contents of this Petition prior to starting the process and a copy of this Petition will be posted at the well site until the plugging or re-plugging has been completed.
- w. Mechanical bridge plugs should incorporate the best available technologies that are either required or recognized by the State regulatory agency and/or oil and gas industry.
- x. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the District Manager. These proposed revisions shall include initial and refresher training on compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in well intersection with training on the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.
- y. The responsible person required under 30 C.F.R. § 75.1501 Emergency Evacuations, is responsible for well intersection emergencies. The well intersection procedures should be reviewed by the responsible person prior to any planned intersection.

- z. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting program of instruction required under 30 C.F.R § 75.1502. The operator will revise the program of instruction to include the hazards and evacuation procedures to be used for well intersections. All underground miners will be trained in this revised plan within 30 days of submittal.

SUBJECT TO THE ABOVE TERMS AND CONDITIONS, and under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at The Ohio County Coal Company's Ohio County Mine is hereby **GRANTED**.

DISTRIBUTION

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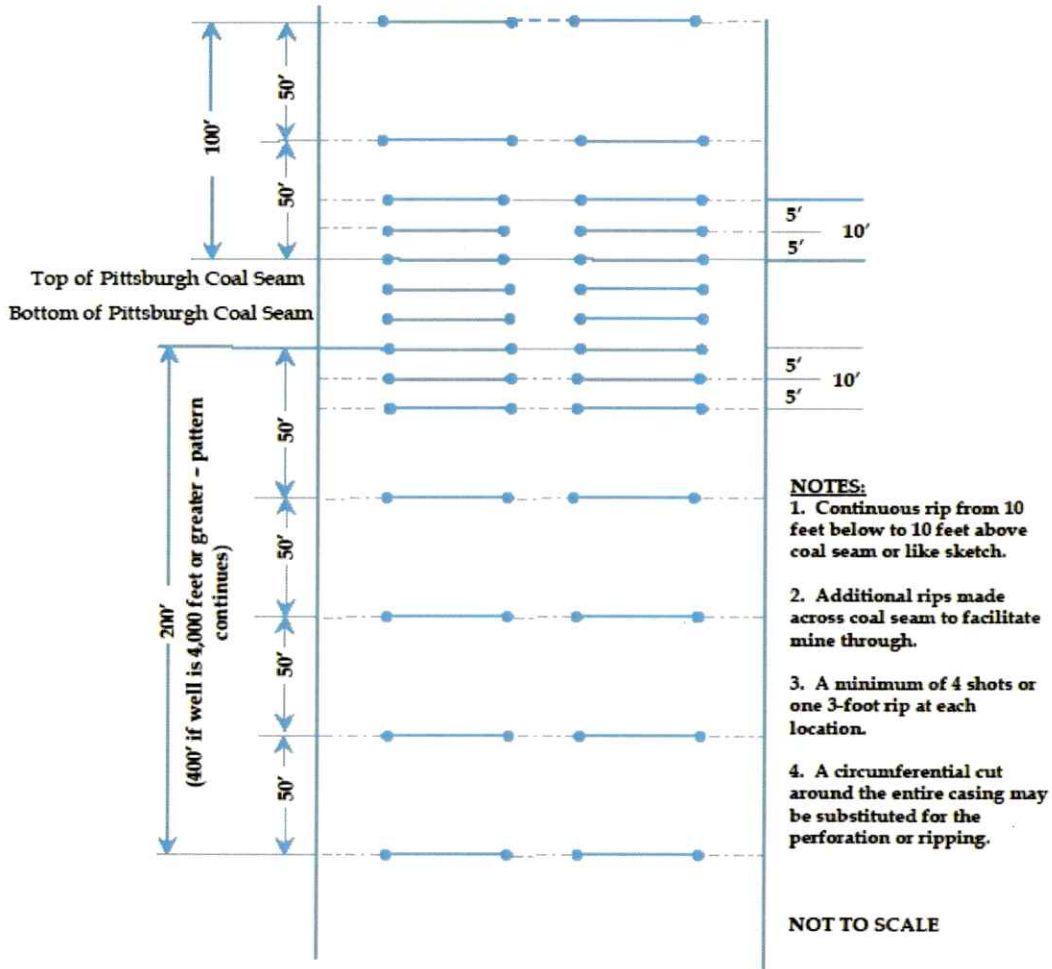
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Appendix A



WW-4A
Revised 6-07

1) Date: OCTOBER 30, 2023
2) Operator's Well Number SGW-67
3) API Well No.: 47 - 051 - 00687

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

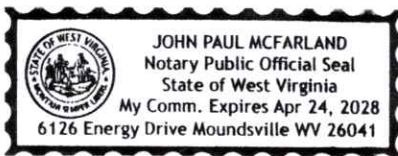
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>JERRY R. ESTEP ET AL</u>	Name <u>WEST VIRGINIA LAND RESOURCES INC.</u>
Address <u>2207 STONE CHURCH RD</u>	Address <u>1 BRIDGE STREET</u>
<u>WHEELING, WV 26003</u>	<u>MONONGAH, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>STRADER GOWER</u>	(c) Coal Lessee with Declaration
Address <u>2525W ALEXANDER RD.</u>	Name _____
<u>VALLEY GROVE, WV 26060</u>	Address _____
Telephone <u>(304) 993-6188</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.



Well Operator WEST VIRGINIA LAND RESOURCES INC.

By: JAY HORES

Its: PROJECT ENGINEER

Address 6126 ENERGY ROAD

MOUNDSVILLE, WV 26041

Telephone (304) 843-3565

RECEIVED
Office of Oil and Gas
NOV 13 2023
WV Department of
Environmental Protection

Subscribed and sworn before me this 6TH day of NOVEMBER 2023 John P. McFarland
Notary Public

My Commission Expires Apr. 24, 2028

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.

12/22/2023

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<input type="checkbox"/>	Return Receipt (hardcopy) \$	
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Postage		
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\$	Sent To	
	Street and No., Apt. No., Box No.	
	City, State, Zip+4	

Jerry Estep
2704 Stone Church Rd
Wheeling, WV 26003
56W-67

PS Form 3800, January 2023 (PSN 7530-02-000-9047) See Reverse for Instructions

RECEIVED
Office of Oil and Gas
NOV 13 2023
WV Department of
Environmental Protection

12/22/2023

WW-9
(5/16)

API Number 47 - 051 - 00687
Operator's Well No. _____

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

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code _____

Watershed (HUC 10) WHERRY RUN OF GRANDSTAFF RUN OF WHEELING CREEK Quadrangle VALLEY GROVE, WV

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 Tanks, see attached letter)

Will closed loop system be used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement

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

Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site.

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

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

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 Jay Hores

Company Official (Typed Name) Jay Hores

Company Official Title Project Engineer

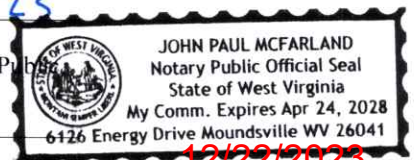
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Office of Oil and Gas

NOV 13 2023

WV Department of
Environmental Protection

Subscribed and sworn before me this 6TH day of NOVEMBER, 20 23

John P. McFarland Notary Public
My commission expires April 24, 2028



12/22/2023

Proposed Revegetation Treatment: Acres Disturbed 1

Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Seed Mix in accordance with WWDEP Oil and Gas, Erosion and Sediment Control Field Manual

Seed Mix in accordance with WWDEP Oil and Gas, Erosion and Sediment Control Field Manual

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: Strader Gower

Comments: _____

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WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 11/07/2023

Field Reviewed? Yes No

WEST VIRGINIA LAND RESOURCES

WEST VIRGINIA LAND RESOURCES

46226 National Road
St. Clairsville, OH 43950

phone: 304.843.3565

fax: 304.843.3546

e-mail: JayHores@acnrinc.com

JAY HORES

Project Engineer

November 6, 2023

Department of Environmental Protection
Office of Oil and Gas
601-57th Street
Charleston, WV 25320

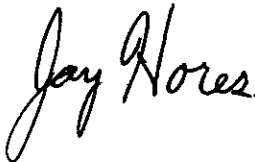
To Whom It May Concern,

As per the Division of Environmental Protection, Office of Oil and Gas request, West Virginia Land Resources submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil & Gas Pit Waste Discharge Application), West Virginia Land Resources will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP facilities number U-0033-83, O-1001-00, U-1035-91U-46-84, U-78-83, O-1044-9, or U-100-83.

Sincerely,



Jay Hores
Project Engineer

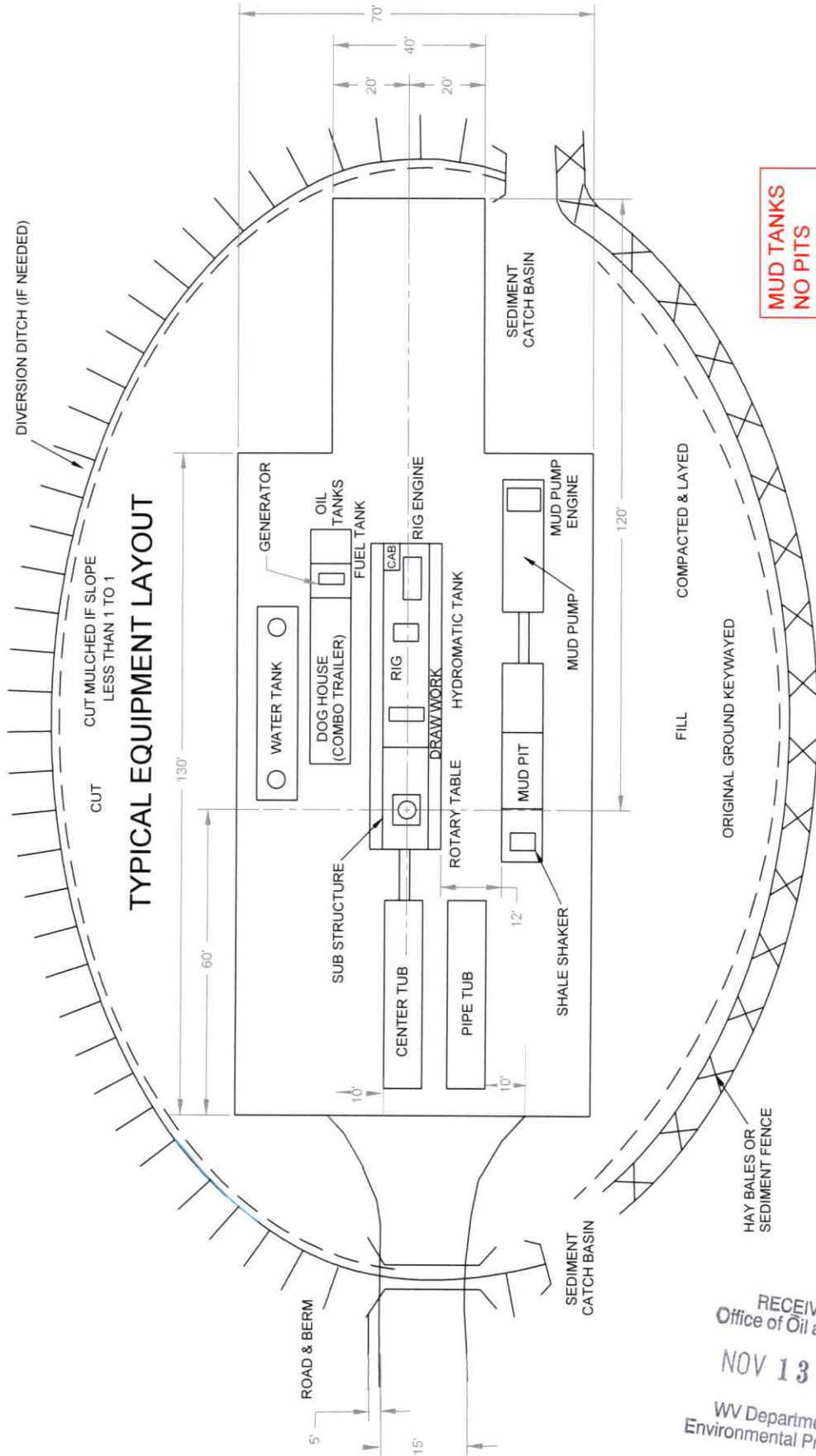
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12/22/2023

TYPICAL DRAWING OF
WELL PLUGGING
SITE PLAN



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NOV 13 2023
WV Department of
Environmental Protection

12/22/2023

N/A

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

Operator Name: WEST VIRGINIA LAND RESOURCES INC.

Watershed (HUC 10): WHERRY RUN OF GRANDSTAFF RUN OF WHEELING CREEK Quad: VALLEY GROVE, WV

Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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NOV 13 2023
WV Department of
Environmental Protection

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

12/22/2023

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

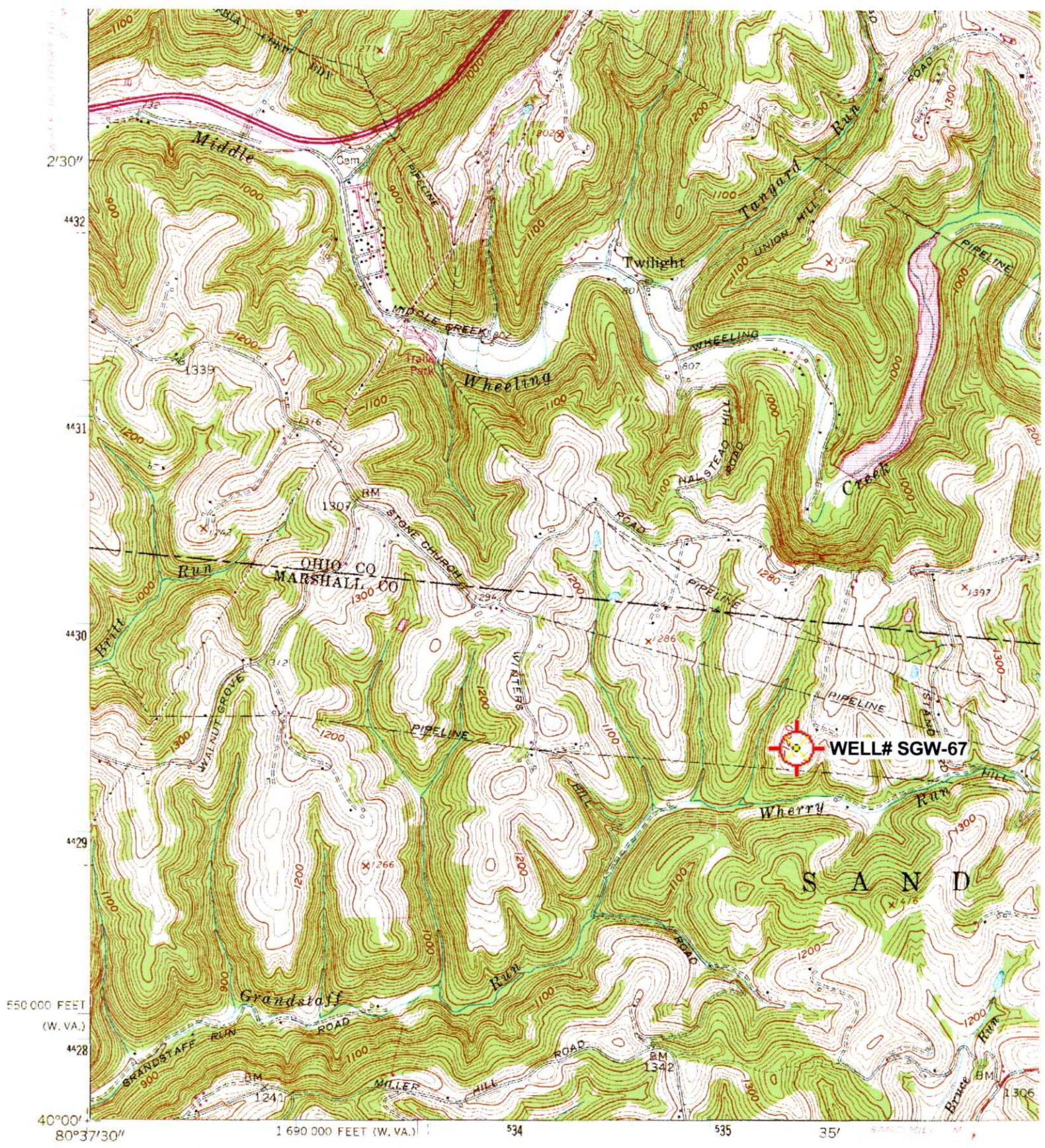
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

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NOV 13 2023
WV Department of
Environmental Protection

Signature: _____

Date: _____

12/22/2023



Mapped, edited, and published by the Geological Survey
 Control by USGS and NOS/NOAA
 Topography by photogrammetric methods from aerial photographs
 taken 1956 and 1957. Field checked 1959
 Polyconic projection. 10,000-foot grid ticks based on West Virginia
 coordinate system, north zone, and Pennsylvania coordinate
 system, south zone. 1000-meter Universal Transverse Mercator grid ticks,
 zone 17, shown in blue. 1927 North American Datum. To place on
 the predicted North American Datum 1983 move the projection
 lines 4 meters south and 17 meters west as shown
 Valley Grove; WV,PA' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt

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 NOV 13 2023
 WV Department of
 Environmental Protection
 12/22/2023

UTM GRID AND 1981 MAGNETIC NORTH

4DSVILLE)
 4863 J NW

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-00687 WELL NO.: SGW-67

FARM NAME: RAYMOND FRANCIS

RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.

COUNTY: MARSHALL DISTRICT: SANDHILL

QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: JERRY R. ESTEP ET AL

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,429,634 m

UTM GPS EASTING: 535,422 m GPS ELEVATION: 376 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:

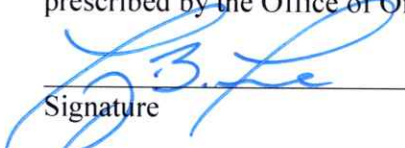
- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS : Post Processed Differential _____
Real-Time Differential

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

4. **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.


Signature

PS 2002
Title

OCTOBER 30, 2023
Date

RECEIVED
Office of Oil and Gas
NOV 13 2023
WV Department of
Environmental Protection

12/22/2023



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /
(If "Gas", Production / Underground storage / Deep / Shallow X /

LOCATION: Elevation: 1223 Water: Wherry Run
District: Sand Hill County: Marshall Quadrangle: Valley Grove

WELL OPERATOR: Braxton Oil and Gas Corp. DESIGNATED AGENT: C. T. Corporation
Address 11032 Quail Creek Rd., Subte 165 Address P. O. Box 951
Oklahoma City, OK. 73120 Charleston, W. Va. 25301

LAND AND GAS: COAL OPERATOR Not Operated
PROPERTY OWNER Raymond E. Francis
Address R. D. #3, Box 109A
Elm Grove, W. Va. 26003

ACREAGE: 160
SURFACE OWNER (Same as above)
Address
ACREAGE
COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Consolidated Coal Company
Address Whittaker Portal
P. O. Box 537
Moundsville, W. Va. 26041

FIELD SALE (IF MADE) TO:
NAME None
Address
COAL LESSEE WITH DECLARATION ON RECORD:
NAME
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip Lee Tracy
Address Route 23
Alma, West Virginia. 26320
Telephone

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DEC 28 1981
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated 9-30, 1976 to the undersigned well operator from Raymond E. Francis and Wilda M. Francis

(If said deed, lease, or other contract has been recorded.)
Recorded on Feb. 4, 1980, in the office of the Clerk of County Commission of Marshall County, West Virginia, in 484 Deed Book at page 23. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Department of Mines. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Braxton Oil and Gas Corp.
Well Operator
DONALD S. GARVIN
President

12/22/2023

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY;
 ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN): Unknown
 Address: _____

GEOLOGICAL TARGET FORMATION: Coal Sand
 Estimated depth of completed well: 11200 feet. Rotary Cable tools
 Approximate water strata depths: Fresh, 50 feet; salt, 100 feet.
 Approximate coal seam depths: 550 feet.
 Is coal being mined in this area: Yes No

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill Pipe		
Condenser								Kinds
Fresh water								
Coal	8 5/8	Sm1	20#	X		750	750	150 bx Sizes
Production Tubing	4 1/2	Sm1	105#	X			2000'	100 bx Depths set
Line								Perforations: Top Bottom

Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in accordance with Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) a "Reclamation Plan" applicable to the reclamation required by Code §22-4-23, (iv) unless previously paid on the same well, the fee provided by Code §22-4-22a, and (v) if applicable, the consent required by Code §22-4-22 from the owner of any water well or building within 200 feet of the proposed well.

Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All operations being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-12-82.

[Signature]
 Deputy Director, Oil & Gas Division

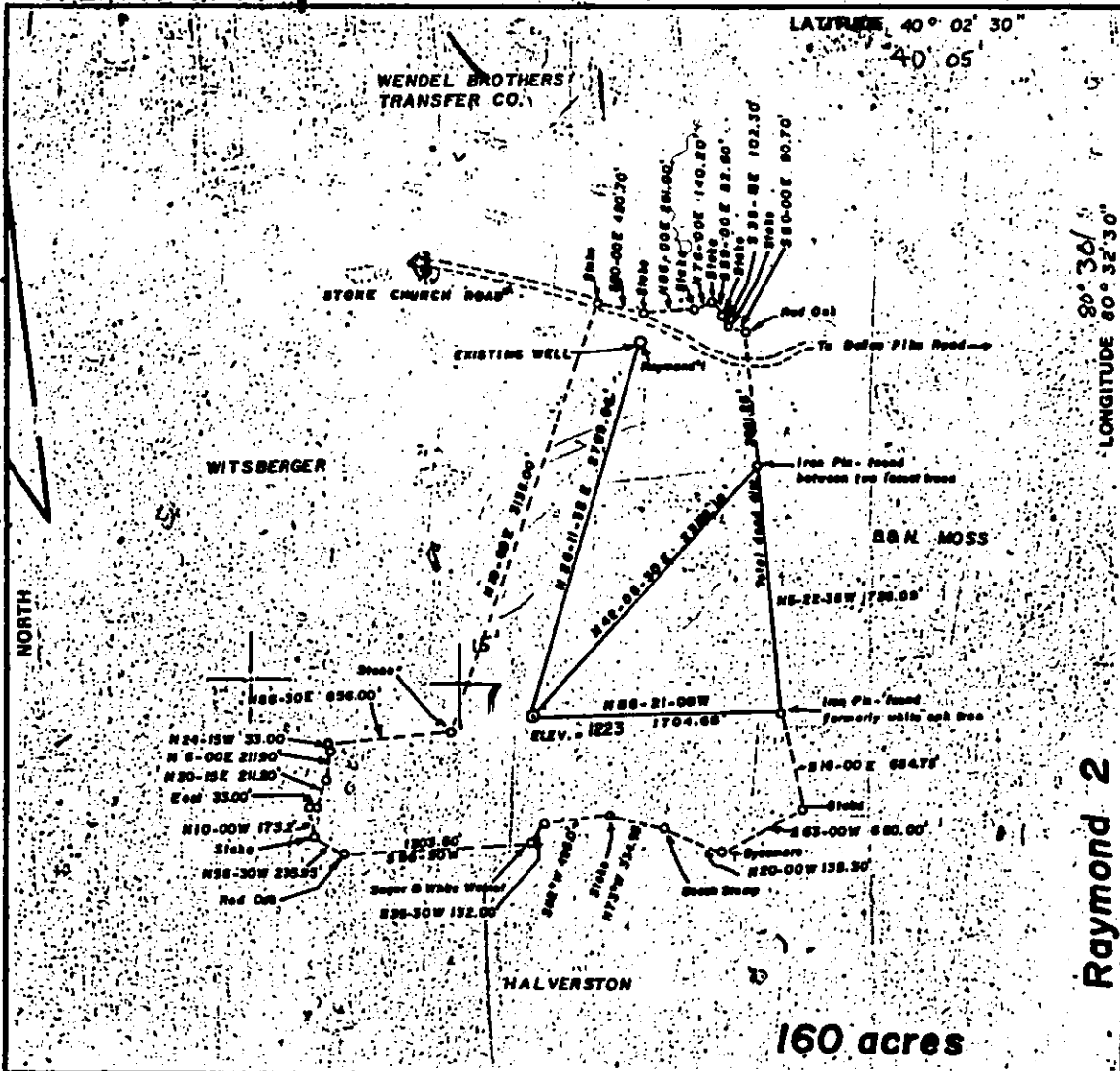
The following waiver must be completed by the well operator and by any coal owner or leaseholder who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the date of recording thereof:
 I, the undersigned coal operator, owner, or lessee of the coal under this well location, have examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. 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: 9-19-82
 By: _____
 Its: _____

42/22/2023

17-23-11

12200'



LATITUDE 40° 02' 30"
40° 05'

LONGITUDE 80° 32' 30"
80° 36'

Raymond 2

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION 1360 (Intersection of Stone Church and Oklahoma Roads)

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 LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Walter H. Hixson
 R.P.E. 5112 L.L.S. _____

PLACE SEAL HERE

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-B (8-78)



DATE November 19 81
 OPERATOR'S WELL NO. Raymond # 2
 API WELL NO. _____
47 - 051 - 0687-P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Corrected Plat

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1223 WATER SHED WHERRY RUN
 DISTRICT Sand Hill COUNTY Marshall
 QUADRANGLE VALLEY GROVE 7.5'
 SURFACE OWNER RAYMOND J. FRANCIS ACREAGE 160
 OIL & GAS ROYALTY OWNER Raymond Francis LEASE ACREAGE 160
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 Squaw Sand ESTIMATED DEPTH 2000
 WELL OPERATOR Braxton Oil & Gas Corp. DESIGNATED AGENT William Woodro CT CORPORATION
 ADDRESS 11032 Quail Creek Road ADDRESS Charleston National Plaza
Oklahoma City OK 73120 Charleston W. Va 25301

Ms. H. 687



DATE November 20, 1981

IV-9
(Rev 8-81)

WELL NO. Raymond #2

State of West Virginia
Department of Mines
Oil and Gas Division
API NO. 047-051-0687

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Brixton Oil & Gas Corp. DESIGNATED AGENT William Woodron
Address 11032 Quail Crk Rd., Okla Onty, OK Address Charleston Nat Plaza, Char., WV
Telephone (405) 755-2829 Telephone (304) 343-4841
LANDOWNER Raymond Francis SOIL CONS. DISTRICT Northern Panhandle
Revegetation to be carried out by Ross & Wharton Gas Company (Agent)

This plan has been reviewed by Northern Panhandle SCD. All corrections and additions become a part of this plan: 10 Dec 81 (Date)

William S. Woodron
(SCD Agent)

Structure Culverts 12" DID (A) Structure None (1)

Spacing 300' Maximum Material _____

Page Ref. Manual I-8 Page Ref. Manual _____

Structure Drainage Ditch (B) Structure RECEIVED (2)

Spacing I-11 ditch outlets Material DEC 28 1981

Page Ref. Manual _____ Page Ref. Manual OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Structure _____ (C) Structure _____ (3)

Spacing _____ Material _____

Page Ref. Manual _____ Page Ref. Manual _____

As timber on site
All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

Project discussed with land owner

REVEGETATION

Treatment Area I
Lime Estimated 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Kentucky 31 40 lbs/acre
Birdstoot Trefoil 10 lbs/acre
Ryegrass 10 lbs/acre

Treatment Area II
Lime Estimated 3 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay 2 Tons/acre
Seed* Kentucky 31 40 lbs/acre
Birdstoot Trefoil 10 lbs/acre
Ryegrass 10 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Incomplete
PLAN PREPARED BY Robert Drulis

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ADDRESS Alum Bridge, WV

PHONE NO. 269-3497

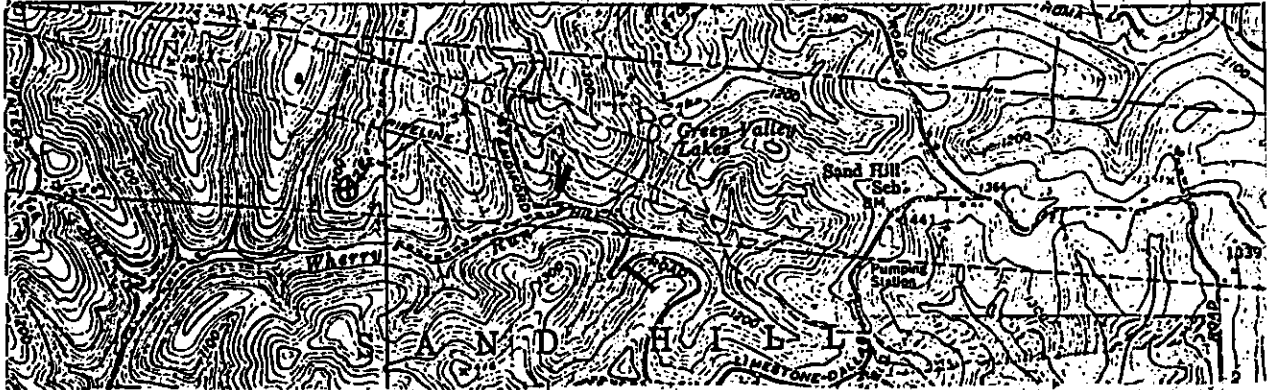
12/22/2023

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Valley Grove--WV, PA

LEGEND

Well Site ⊕

Access Road ———

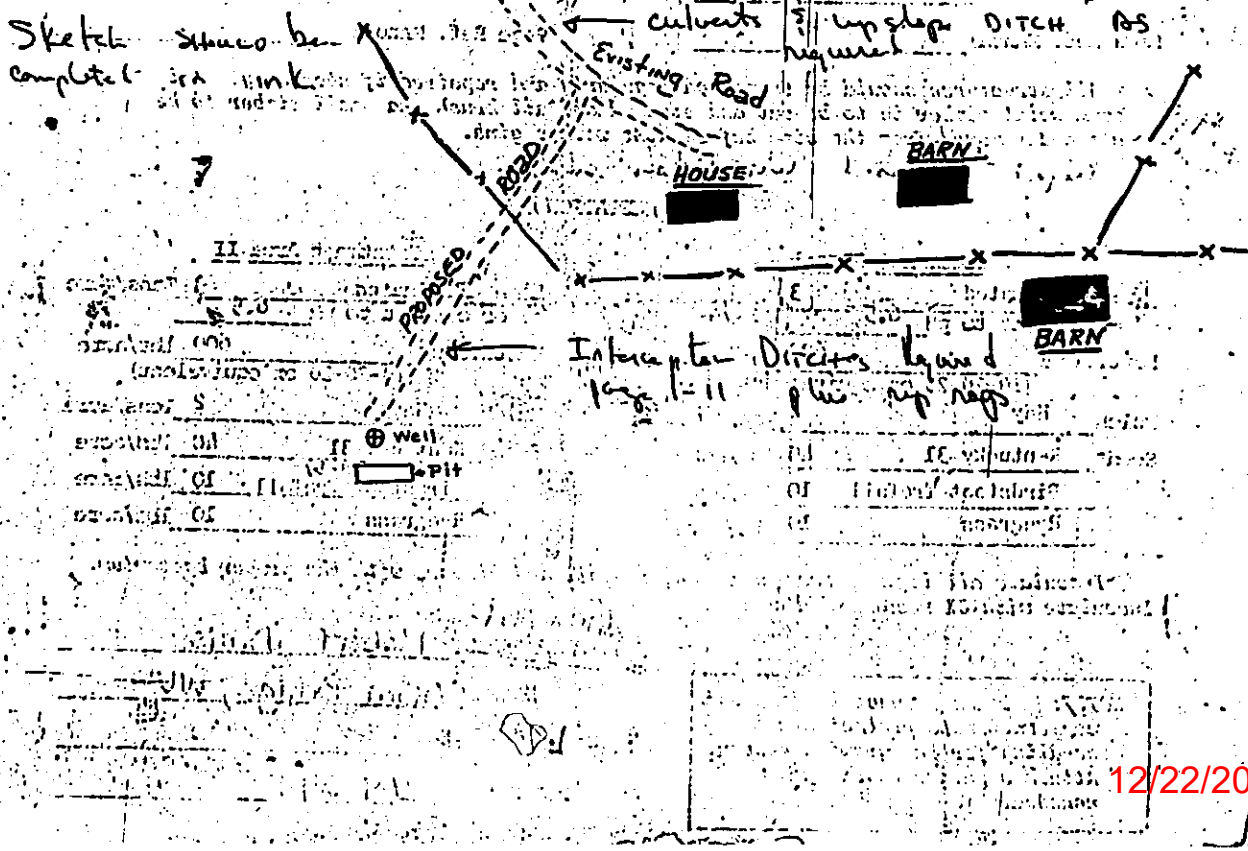


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary	—▲—▲—▲—▲—	Diversion	
Road	====	Spring	○→
Existing fence	—x—x—x—x—	Wet spot	⊕
Planned fence	—/—/—/—/—	Building	■
Stream	~~~~~	Drain pipe	○→○→○→
Open ditch	—>—>—>—>—	Waterway	≡≡≡



PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

ESTIMATING CONTRACTOR (IF KNOWN) Unknown

Address

GEOLOGICAL TARGET FORMATION

Squaw Sand

Estimated depth of completed well 200 feet Rotary X Cable tools

Approximate water strata depths: Fresh 50 feet salt 100 feet

Approximate coal seam depths: 550

Is coal being mined in this area: Yes No X

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For Drill, Left-in, Well), CEMENT FILL (UP OR SACKS, Cubic ft.), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

Regulation 7.02 of the Department of Mineral Resources that the original and fourth copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 21, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) a "Declaration Plan" applicable to the stimulation required by Code §22-4-2 and Regulation 23, (iv) unless previously paid on the same well, the fee provided by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-12b from the owner of any water well or drilling within 200 feet of the proposed well.

Form IV-2 shall not be required for fracturing or stimulating a well when fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

The undersigned coal operator or owner or lessee of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. 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: January 25, 1982

By: Edward C. Welch
Its: Mine Engineer, Shoemaker

2/22/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED

AUG 18 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 051-0687

Oil or Gas Well _____
(KIND)

Company <u>Baxton Oil & Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Chilhowee city ok</u>	Size			
Farm <u>R. E. Francis</u>	16			Kind of Packer
Well No. <u>2</u>	13			Size of
District <u>Sand Hill</u> County <u>Marshall</u>	10			Depth set
Drilling commenced <u>8-12-82</u>	8 3/4	<u>1016</u>	<u>1016</u>	
Drilling completed <u>8-14-82</u> Total depth <u>3100</u>	8 1/2	<u>1970</u>	<u>1970</u>	
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>Haltiburton</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water <u>1520</u> feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: 8" cemented with 260 sks cement cemented 8-13-82
4 1/2" cemented on 8-14-82
Gas 18/10 Thru 1 1/4" with water

8-16-82

R. A. Lowther
DISTRICT SUPERVISOR

FORM IV-4
(Obverse)
[08-78]

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date: August 12, 1983

NOTICE OF INTENTION TO PLUG AND ABANDON A WELL

Operator's Well No. Raymond #2
API Well No. 47-051-0687
State County Permit

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas", Production X / Underground storage / Deep / Shallow /).

LOCATION: Elevation: 1223 Watershed: Wherry Run
District: Sand Hill County: Marshall Quadrangle: Valley Grove

WELL OPERATOR Braxton Oil & Gas Corp. DESIGNATED AGENT C.T. Corp.
Address 11032 Quail Ck. Rd. Address 1200 Chas. Nat'l. Plaza
Okla. City, OK 73120 Chas., WV 25323

ROYALTY OWNER Raymond Francis COAL OPERATOR None
Address R.D.#3, Box 109 A Address
Elm Grove, WV 26003

Acreage 160 COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Same Name Consolidated Coal Company
Address Address Whittaker Portal, P.O. Box 537
Moundsville, WV 26041

Acreage
FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

COAL LESSEE WITH DECLARATION
Name None
Address

RECEIVED
OCT - 3 1983
OIL & GAS DIVISION
DEPT. OF MINES

The undersigned proposes to plug and abandon X clean out and replug the above described well, commencing on the date the Oil and Gas Inspector is notified, it being understood that the date of such notification shall not be less than five days after the day on which this Form IV-4 is received or in due course should be received by the Department of Mines.

The method of plugging is planned as shown on the work order on the reverse side hereof.

This Notice is given to the Department and the others specified above, so that they or their representatives may be present at the plugging and filling of said well. However, whether they are represented or not, the undersigned will proceed on that date, or as soon thereafter as convenient, to plug or clean out and replug said well by the applicable method specified in Code § 22-4-10 and given in detail on the reverse hereof.

This notice has been or is being this day sent by registered or certified mail to each party named at the address above listed.

THIS PLUGGING PERMIT IS APPROVED
31st day of August, 1983....

Michael J. Jarvis

* Address (if not set forth above)

Braxton Oil & Gas Corp.
Name of Person Giving Notice
By *Donald S. Harris*
Its President

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-4 must be filed with the Department, accompanied by: (i) a plat required by Regulation 8.01 in the form prescribed by Regulation 11; (ii) a bond in one of the forms prescribed by Regulation 12, in lieu thereof the other security required by Code § 22-4-9; (iii) the fee required by Code § 22-4-12a, and (iv) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23.

12/22/2023

PROPOSED WORK ORDER FOR PLUGGING AND FILLING WELL

[08-78]

[THIS IS AN ESTIMATE ONLY. ACTUAL INFORMATION MUST BE SUBMITTED BY AFFIDAVIT (FORM IV-38) ON COMPLETION]

PLUGGING CONTRACTOR (IF KNOWN) Unknown

Address _____

PLUGGING METHOD PROPOSED BY WELL OPERATOR:

As provided by Code § 22-4-10(a)(1), where the well does not penetrate a workable coal bed, and without placing a liner

As provided by Code § 22-4-10(a)(2), where the well does not penetrate a workable coal bed, but including placing a liner

As provided in Code § 22-4-10(b), where a coal protection string of casing has been circulated and cemented in to the surface

As provided in Code § 22-4-10(c), where a coal protection string of casing has been circulated and cemented in to the surface

NOTE: If the proposed plugging method is the last stated above, as provided in Code § 22-4-10(a), then the well operator must include cost estimates in the space provided below, and in addition complete the right-hand portion (including comparative estimates) in case the coal operator, owner or lessee has requested or does request plugging under the provisions of Code § 22-4-10(d)(1) or (2)

As provided in Code § 22-4-10(e), where the well must be cleaned out and replugged to permit the safe mining through of such well

Description of the method by which the well was previously plugged: _____

REVIEWED

FOR PLUGGING METHOD PROPOSED

PLUGGING MATERIALS		Depth	Thickness	Estimated Cost
Type of Cement	Other Materials			
neat	gel	0-2100		\$5000.00

Bridge Plugs Used--Type and Depth

VENT PIPE

MISCELLANEOUS MATERIALS

CASING LOST

TYPE OF RIG:

Owner: Well Op'r / Contractor

Rig time: ___ days plus ___ hours

OPERATOR'S LABOR COSTS

OUTSIDE SERVICES (type and company)

SUB-TOTAL

LESS SALVAGE

TOTAL \$5000.00

FOR PLUGGING ON REQUEST UNDER CODE § 22-4-10(d)(3)

PLUGGING MATERIALS		Depth	Thickness	Estimated Cost
Type of Cement	Other Materials			

Bridge Plugs Used--Type and Depth

VENT PIPE

MISCELLANEOUS MATERIALS

CASING LOST

TYPE OF RIG:

Owner: Well Op'r / Contractor

Rig time: ___ days plus ___ hours

OPERATOR'S LABOR COSTS

OUTSIDE SERVICES (type and company)

SUB-TOTAL

LESS SALVAGE

TOTAL

12/22/2023

RECEIVED

OCT 25 1983

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 051-0687-P County Marshall
Company Braxton Oil & Gas Corp. District Sand Hill
Inspector ROBERT LOWTHER Farm Raymond Francis
Date October 4, 1983 Well No. Raymond #2 Issued 8/31/83

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification prior to starting work	✓	_____
25.04	Prepared before drilling to prevent waste	✓	_____
25.03	High-pressure drilling	✓	_____
16.01	Required permits at wellsite	✓	_____
5.03	Adequate fresh water casing	✓	_____
15.02	Adequate coal casing	✓	_____
15.01	Adequate production casing	✓	_____
15.04	Adequate cement strength	✓	_____
23.02	Maintained access roads	✓	_____
25.01	Necessary equipment to prevent waste	✓	_____
23.03	Reclaimed drilling site	✓	_____
23.04	Reclaimed drilling pits	✓	_____
23.05	No surface or underground pollution	✓	_____
7.05	Identification markings	✓	_____

COMMENTS: Release

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: R. H. Lowther

DATE: 10-21-83

12/22/2023



State of West Virginia
 Department of Mines
 Oil and Gas Division
 Charleston 25305

WALTER N. MILLER
 DIRECTOR

THEODORE M. STREIT
 ADMINISTRATOR

November 21, 1983

Braxton Oil & Gas Corporation
 Quail Creek North Office Bldg.-Suite 165
 11032 Quail Creek Road
 Oklahoma City, Oklahoma 73120
 Attn: Donald S. Garvin

In Re: PERMIT NO: 47-051-0687-P
 FARM: Raymond Francis
 WELL NO: Raymond # 2
 DISTRICT: Sand Hill
 COUNTY: Marshall 11/83

Gentlemen:

The FINAL INSPECTION REPORT for the above described well has been received in this office. Only the column check below applies:

 The well designated by the above permit number has been released under your Blanket Bond.

XXXXX Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

 Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

Very truly yours,

Theodore M. Streit, Administrator
 Office of Oil & Gas-Dept. Mines

TMS/ RL

Encl: Single Bond dated 12-2-81 (Bond # 40 S 37664 BCA) The Actna Casualty & Surety Co.

12/22/2023



Kennedy, James P <james.p.kennedy@wv.gov>

plugging permits issued for 4705100126 4705100687

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Fri, Dec 15, 2023 at 3:29 PM


To: "Roddy, David" <DavidRoddy@acnrinc.com>, "Hores, Jay" <JayHores@acnrinc.com>, Strader C Gower <strader.c.gower@wv.gov>, ebuzzard@marshallcountywv.org


To whom it may concern, plugging permits have been issued for 4705100126 4705100687.

James Kennedy

WVDEP OOG

2 attachments

 **4705100687.pdf**
3946K

 **4705100126.pdf**
3673K

12/22/2023