



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, July 27, 2017
WELL WORK PERMIT
Not Available / Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for 6215
47-049-00294-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 6215
Farm Name: BEATY, L. D. #4
U.S. WELL NUMBER: 47-049-00294-00-00
Not Available / Plugging
Date Issued: 7/27/2017

Promoting a healthy environment.

07/28/2017

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.

1.) Date: July 3, 20 17
2.) Operator's Well No. R-277
3.) API Well No. 47 - 49 - 00294
State County Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
APPLICATION FOR A PERMIT TO PLUG & ABANDON

4.) WELL TYPE: Oil _____ / Gas X / Liquid injection _____ / Waste disposal _____ /
(IF "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X)

5.) LOCATION: Elevation: 1110.49' Watershed: Owen Davy Fork of Buffalo Creek
District: Mannington County: Marion Quadrangle: Glover Gap 7.5'

6.) WELL OPERATOR Consolidation Coal Co. 7.) DESIGNATED AGENT Ronnie Harsh
Address 1 Bridge St. Address 1 Bridge St.
Monongah, WV 26554 Monongah, WV 26554

8.) OIL & GAS INSPECTOR TO BE NOTIFIED 9.) PLUGGING CONTRACTOR
Name Sam Ward Name _____
Address P. O. Box 2327 Address _____
Buckhannon, WV 26201 _____

10.) WORK ORDER: The work order for the manner of plugging this well is as follows:

SEE EXHIBIT NO. 1

MSHA 101C
EXEMPTION

RECEIVED
Office of Oil and Gas

JUL 12 2017

WV Department of
Environmental Protection

OK JWM

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

Work order approved by inspector _____ Date _____

EXHIBIT NO.1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize the following method to plug all future wells.

SOLID PLUG METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- x (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel an expanding Class A cement plug from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

- WELL HAS PREVIOUSLY BEEN PLUGGED AND ABANDONED.
- REMOVE 2" VENT PIPE & ASSEMBLY.
- CLEAN OUT WELL TO 992'
- SET AN EXPANDING CLASS A CEMENT PLUG FROM 992 TO 686'.
- SET CLASS A CEMENT PLUG FROM 686' TO SURFACE.
- SET MONUMENT.

RECEIVED
Office of Oil and Gas

JUL 12 2017

WV Department of
Environmental Protection

OK gwm

07/28/2017

4900294P

U.S. Department of Labor

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



JUL 13 2001

MSHA 101C
EXEMPTION

In the matter of
Consolidation Coal Company
Robinson Run No. 95
I.D. No. 46-01318

Petition for Modification

Docket No. M-2001-015-C

PROPOSED DECISION AND ORDER

On February 6, 2001, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Robinson Run No. 95 Mine. The Petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

The alternative method proposed by the petitioner is similar to that approved under similar petitions for modification with the exception of certain terms and conditions. Specifically, the District Manager has the authority to allow mining within 300 feet without plugging, and to accept wells cleaned and plugged prior to the effective date of this Order if the plugging methods are documented and meet the terms and conditions of this Order.

MSHA personnel conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative report and recommendation, this Proposed Decision and Order (PDO) is issued.

Finding of Fact and Conclusion of Law

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

The petitioner reports that more than 550 oil and gas wells have been plugged and more than 475 plugged wells have been successfully mined through since the company first received modifications to the application of the standard at several of its other mines. Further, the petitioner adopted the special terms and condition MSHA imposed in Docket No. M-1990-066-C for the Shoemaker Mine. The petitioner plans to clean out and plug all wells including those with existing plugging affidavits, prior to mining through.

07/28/2017

Typically, the wells are less than 2000 feet deep. The Robinson Run No. 95 Mine is extracting coal on the Pittsburgh Coal Seam. There are old workings on the coal seams above, and coal seams which are greater than 24 inches thick both above and below the current mine workings at various locations. Generally, the Pittsburgh Coal Seam is 200 to 700 feet from the surface depending upon the topography. The majority of the wells which will be plugged were drilled before 1930 prior to enactment of any drilling or plugging standards. Also, many of the well were abandoned before federal or state regulations became effective.

Unless the existing records show that an abandoned well was plugged using techniques equivalent to this proposed decision and order's terms and condition, and that information is submitted and accepted in accordance with Paragraph 2(s) as providing the required level of safety by the District Manager, the well shall be again cleaned, inadequate plugging materials drilled out and the well plugged in accordance with the terms and conditions of this proposed decision and order before such wells may be cut through or approached within the allowed limits. The summary information provided by the petition suggests that special attention to securing and interpreting the suite of drill logs required by Paragraph 1(a)(4) is needed to ensure that, at a minimum, the expanding cement plug extends from at least 200 feet below the lowest minable seam through 100 feet above the highest minable seam, unless the seams are separated by an interval greater than 300 feet, in which case each seam may be plugged individually.

On the basis of the petition and the findings of MSHA's investigation, Consolidation Coal Company is granted a modification of the application of 30 CFR 75.1700 to its Robinson Run No. 95 Mine. The mine is currently plugging and cutting through oil and gas wells using the special terms and conditions granted in the Proposed Decision and Order for Docket No. M-1979-261-C finalized August 18, 1980. This PDO will supercede the terms and conditions of that Order when it becomes effective.

ORDER

Wherefore, pursuant to the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and pursuant to Section 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C., sec. 811(c), it is ordered that Consolidation Coal Company's Petition for Modification of the application of 30 CFR 75.1700 at the Robinson Run No. 95 Mine is hereby:

GRANTED, for mining through or near (whenever the safety barrier diameter is reduced to a distance less than the District Manager would approve pursuant to Section 75.1700) plugged oil or gas wells penetrating the Pittsburgh seam and other minable coal seams, conditioned upon compliance with the following terms and conditions:

1. Procedures to be utilized when plugging oil or gas wells.
 - a. Cleaning out and preparing oil and gas wells.

Prior to plugging an oil or gas well, the following procedure shall be followed:

 - (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest minable coal bed.
 - (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest minable coal bed.
 - (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest minable coal bed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
 - (4) A suite of logs shall be made consisting of a caliper survey, directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest minable coal bed and

potential hydrocarbon producing strata and the location for the bridge plug.

- (5) If the uppermost hydrocarbon-producing stratum is within 200 feet of the base of the lowest minable coal bed, properly placed mechanical bridge plugs or a suitable brush plug described in Subparagraph (a)(3) shall be used to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest minable coal bed.
 - (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and increases the density of the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
- b. Plugging oil or gas wells to the surface. The following procedures shall be utilized when plugging gas or oil wells to the surface:
- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest minable coal bed to the surface with an expanding cement plug extending from at least 200 feet below the lowest minable coal bed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest minable coal bed.
 - (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.

- c. Plugging oil or gas wells using the vent pipe method. The following procedures shall be utilized when using the vent pipe method for plugging oil and gas wells:
- (1) A 4½-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest minable coal bed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
 - (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expanding cement for a minimum of 200 feet below the base of the lowest minable coal bed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest minable coal bed.
 - (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
 - (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- d. Plugging oil and gas wells for use as degasification boreholes. The following procedures shall be utilized when plugging oil or gas wells for subsequent use as degasification boreholes:
- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest minable coal bed. The top of the

expanding cement shall extend upward to a point above the top of the coal bed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.

- (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
 - (3) The annulus between the degasification casing and the borehole wall shall be cemented from a point immediately above the slots or perforations to the surface.
 - (4) The degasification casing shall be cleaned out for its total length.
 - (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shut-in valves, sampling port, flame arrestor equipment, and security fencing.
2. The following cut-through procedures (a-t) apply whenever the petitioner reduces the safety barrier diameter to a distance less than the District Manager would approve pursuant to Section 75.1700 or proceeds with an intent to cut through a plugged well:
- a. Prior to reducing the safety barrier to a distance less than the District Manager would approve pursuant to Section 75.1700 or proceeding with an intent to cut through a plugged well, the operator shall notify the District Manager or his designee.
 - b. The MSHA District Manager or designee may conduct a conference prior to mining through any plugged well to review and approve the specific procedures for mining through the well. Representatives of the operator, the representative of the miners, and the appropriate State agency shall be informed, within a reasonable time prior to the conference, and be given an opportunity to attend

- and participate. This meeting may be called by the operator.
- c. Mining in close proximity to or through a plugged well shall be done on a shift approved by the District Manager or designee.
 - d. The District Manager or designee, representative of the miners, and the appropriate State agency shall be notified by the operator in sufficient time prior to the mining through operation in order to have an opportunity to have representatives present.
 - e. When using continuous mining equipment, drivage sights shall be installed 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 long-wall mining methods, drivage sights shall be installed on 10-foot centers for a distance of 50 feet in advance of the well bore. The drivage sights shall be installed in the headgate and tailgate.
 - f. Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. All fire hoses shall be ready for operation during the mining through.
 - g. Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs shall be available in the immediate area of the cut through.
 - h. The quantity of air required by the approved mine ventilation plan, but not less than 6,000 cubic feet of air per minute for scrubber equipped continuous miners or not less than 9,000 cubic feet per minute for continuous miner sections using auxiliary fans or line brattice only, shall be used to ventilate the working face during the mining through operation. The quantity of air

required by the ventilation plan, but not less than 30,000 cfm, shall reach the working face of each future longwall during the mine-through operation.


- i. Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well.
- j. The methane monitor(s) on the continuous mining machine or the longwall shear and face shall be calibrated on the shift prior to mining through the well.
- k. When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 10 feet of the well. During the actual cutting through process, no individual shall be allowed on the return side until mining through has been completed and the area has been examined and declared safe.
- l. When using continuous mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib and floor to within 20 feet of the face when mining through or near the well on the shift or shifts during which the cut through will occur. On longwall sections rock dusting shall be conducted and placed on the roof, rib, and floor up to both headgate and tailgate gob.
- m. When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until adequate ventilation has been established around the wellbore.

- n. After a well has been intersected and the working place determined safe, mining shall continue in by the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- o. No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- p. The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.
- q. MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- r. A copy of the petition shall be maintained at the mine and be available to the miners.
- s. The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.
- t. Within 60 days after this PDO becomes final, the Petitioner shall submit proposed revisions for its approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the terms and conditions stated in the PDO.

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

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific

objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.



Michael G. Lawless
Deputy Administrator
for Coal Mine Safety and Health

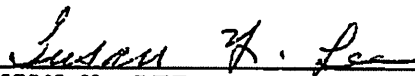
Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 13th day of July, 2001 to:

Robert M. Vukas, Esq.
CONSOL, Inc.
Consol Plaza
1800 Washington Road
Pittsburgh, Pennsylvania 15241-1421

Addressee of Record
Mr. James Siko, Superintendent
Consolidation Coal Company
Robinson Run No. 95
RT. 2, Box 152
Mannington, West Virginia 26582

Ms. Joyce A. Hanula
United Mine Workers
of America
8315 Lee Highway
Fairfax, Virginia 22031-2215



SUSAN Y. LEE
Mine Safety and Health Technician

cc: Mr. Ronald L. Harris

FORM 04-0

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Little Kanawha Syndicate
c/o H. G. Sampson Co.
COAL OPERATOR OR OWNER
Fairmont, West Virginia 26554
ADDRESS

Equitable Gas Company
420 Boulevard of the Allies
Pittsburgh, Pennsylvania 15219
COMPLETE ADDRESS
MAR 13 1968 19

COAL OPERATOR OR OWNER
ADDRESS
Fred Beaty
LEASE OR PROPERTY OWNER/
Rt. #1, Mannington, W. Va.
ADDRESS

WELL AND LOCATION
Mannington District
Marion County
Well No. 6215
J. D. Beaty Farm

STATE INSPECTOR SUPERVISING PLUGGING W. Blosser - Colfax, West Virginia

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of _____

vs:
Edward C. Lough and John Wharton
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Equitable Gas Company well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 9th day of February, 1968, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD FORMATION	FILLING MATERIAL	From To	CASING		
			SIZE & KIND	CSG PULLED	CSG LEFT IN
Big Injun 2100-2232	Cement	815 822	10"	None	229
	Vent Plug Assembly	822 815	8-1/4"	1357	None
	Ran 822'-2" vent pipe		6-5/8"	1714	356
Pph. Coal Est. 786-792	Cement (outside 2")	815 740			
	Aquagel (outside 2")	740 15			
	Concrete (outside 2")	15 0			
COAL SEAMS	DESCRIPTION OF MONUMENT				
(NAME)	6'-2" vent pipe with inverted vee				
(NAME)	on top above surface with welded				
(NAME)	plate showing name and well number.				
(NAME)					

and that the work of plugging and filling said well was completed on the 13th day of March, 1968

And further deponents saith not.

Sworn to and subscribed before me this 14th day of March, 1968

My commission expires: March 20, 1968



Edward C. Lough
John B. Wharton
Notary Public
Permit No. MAR-294

Form 02-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Mannington SW 4.3
Permit No. WAR-294

WELL RECORD
REBRIIL

Oil or Gas Well Gas Well

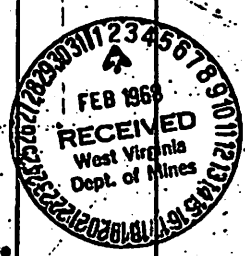
Company Equitable Gas Company
Address 120 Boulevard of the Allies, Pa. (19)
Farm Le. De Beaty Acres 65
Location (waters) Mannington SW 4.3
Well No. 6215 Elev. 1118
District Mannington County Marion
The surface of tract is owned in fee by Fred Beaty
Rt. # 2 Address Mannington, W. Va.
Mineral rights are owned by H. N. King & Helen J. King
610 Willard Place c/o Wm. Raleigh, N.C. 27609
Drilling commenced 8-27-67
Drilling completed 1-21-68
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs.
Oil bbl. 1st 24 hrs.
WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS)
RESULT AFTER TREATMENT (Initial open flow or bbl.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Depth

Casing and Tubing	Used in Drilling	Left in Well	Packer
Size			
16			Kind of Packer
13			
10	<u>222</u>	<u>222</u>	Size of
8 1/4	<u>1357</u>	<u>1357</u>	
6 1/2	<u>2070</u>	<u>2070</u>	Depth set
5 3/16			
4 1/4			
1			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Head or Salt	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Murphy Sand			930	960			
L. Dunkard Sand			1110	1190			
B. Dunkard Sand			1210	1290			
Freeport Sand			1302	1321			
Freeport Sand			1410	1442			
Gas Sand			1490	1567			
Salt Sand			1596	1612			
Salt Sand			1630	1630			
Salt Sand			1650	1679			
Salt Sand			1700	1822			
Salt Sand			1820	1822			
Lexton Sand			1979	2050			
Hg. Lime			2050	2097			
Hg. Injun Sand			2100	2122			
Hg. Injun Sand			2131	2232			
10' Sand			2724	2750	Gas	2184 - 68	Low-Temperature
50' Sand			2752	2768			
30' Sand			2805	2822			
Gordon Stray Sand			2846	2846			
Gordon Sand			2902	2910			
Gordon Sand			2932	2950			
4th Sand			2960	2996			
5th Sand			3024	3040			
REBRIILED TO				3130			
Completed Total Depth				3130			

NOTE: Log shown from Gamma Ray Survey.
10' cemented from 229' to surface.
6-3/4' cemented from 2070' to 1770'. Anagel 1770' to surface.
Logged in Equipment Storage Pool Area.
Well to be plugged.



Form 00-12 (Rev. 1-1-57)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle: Marion SW 4.3

Permit No. P-108

WELL RECORD

Oil or Gas Well Dry Hole

Rotary
Spodder
Cable Tools
Stirage

Company Southern Oil Company
Address _____
Farm L. D. Beatty Acres 85
Location (waters) Marion SW 4.3
Well No. 4 (Exp. 6915) Elev. _____
District Marion County Marion
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 7-15-18
Drilling completed 9-18-18
Date Shot _____ From _____ To _____
With _____
Open Flow _____ Water in _____ Inch _____
_____ Merc. in _____ Inch _____
Volume _____ Cu. Ft. _____
Rock Pressure _____ lbs. _____
Oil _____ bbl. 1st 24 hrs. _____
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			Kind of Packers
13			Size of
10	<u>1 1/2</u>	<u>None</u>	Depth set
8	<u>1 3/4</u>	<u>None</u>	
6 1/2	<u>2 1/2</u>	<u>None</u>	
5 3/16			
4 1/2			
3			Perf. top
2			Perf. bottom
			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial or bbl.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS _____
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Murphy Sand			942	960			
L. Dunkard Sand			1145	1180			
B. Dunkard Sand			1900	1940			
Gas Sand			1400	1435			
1st Salt Sand			1900	1980			
2nd Salt Sand			1770	1800			
Marion Sand			1945	2049			
Big Injun Sand			2109	2240			
Fifty Foot Sand			2786	2773	Gas		Show
Thirty Foot Sand			2804	2829	Gas	2814	Show
Gordon Sand			2905	2950			
Fourth Sand			2972	2998			
Completed Total Depth				3159			

Well opened 1918. No plugging record available.



49002944

FORM WW-4(A)
Revised 6-07

1) Date: July 3, 2017
2) Operator's Well No. R-277
3) API Well No. 47 - 49 - 00294
State County Permit

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
(a) Name Perry R. & Janice M. Thorne
Address 95 Curtisville Road
Mannington, WV 26582

5)a) COAL OPERATOR
Name CONSOLIDATION COAL CO.
Address 1 Bridge St.
Monongah, WV 26554

(b) Name _____
Address _____

(b) COAL OWNER(S) WITH DECLARATION:
Name _____
Address _____

(c) Name _____
Address _____

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(6) INSPECTOR _____
Address _____

(c) COAL LESSEE WITH DECLARATION:
Name _____
Address _____

JUL 12 2017

WV Department of
Environmental Protection

Telephone _____

TO THE PERSON(S) 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 and its location 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 REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice 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 delivery by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery by the Chief.

WELL OPERATOR Consolidation Coal Company
By Ronnie Harsh
Its Project Engineer / Agent
Address 1 Bridge St.
Monongah, West Virginia 26554
Telephone (304) - 534 - 4748

Ronnie Harsh

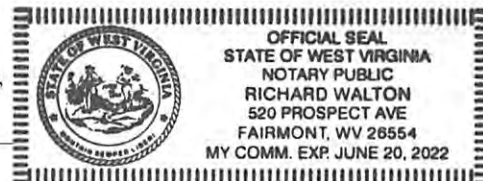
Subscribed and sworn before me this 6th day of July, 20 17

RWalt

Notary Public,

Marion County, State of West Virginia

My commission expires June 20, 20 21



Oil and Gas Privacy Notice

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

07/28/2017

4900294P

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

R. Harsh
R-277

For delivery information, visit our website at www.usps.com®.

7015 3010 0001 661A 9310

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$



Sent To Perry R. + Janice M. Thorne
 Street and Apt. No. or PO Box No. 95 Curtisville Road
 City, State, ZIP+4® Mannington, WV 26582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Consolidation Coal Company OP Code 10950

Watershed Owen Davy Fork of Buffalo Creek Quadrangle Glover Gap

Elevation 1110.49' County Marion District Mannington

Description of anticipated Pit Waste: N/A

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

Will a synthetic liner be used in the pit? N/A. If so, what mil.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- 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)

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Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Freshwater

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

Additives to be used? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Reused or Disposed (see attached letter)

-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust _____

-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 Ronnie Harsh

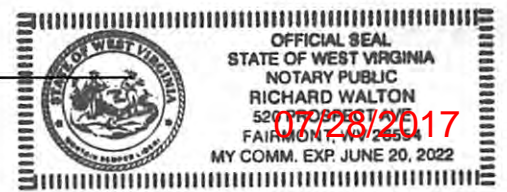
Company Official (Typed Name) Ronnie Harsh

Company Official Title Project Engineer

Subscribed and sworn before me this 6th day of July, 20 17

R. Walt
Notary Public

My commission expires June 20, 2022



4900294P

Consolidation Coal Company
Northern West Virginia Operations
1 Bridge Street
Monongah, WV 26554

phone: 304-534-4748
fax: 304-534-4739
e-mail: ronnieharsh@consolenergy.com
web: www.coalsource.com

*Name: RONNIE HARSH
*title: Project Engineer

April. 7, 2014

Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304-2345
Phone: (304) 926-0499
Fax: (304) 926-0452

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JUL 12 2014

WV Department of Environmental Protection

To Whom It May Concern:

As per the Department of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company, Northern West Virginia Operations, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without general permit for Oil and Gas Pit Waste Discharge Application), Consolidation Coal Company, Northern West Virginia Operations, 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 impoundment facilities number U-78-83, U-104-83, or U-1011-93.

Sincerely,



Ronnie Harsh
Project Engineer

07/28/2017

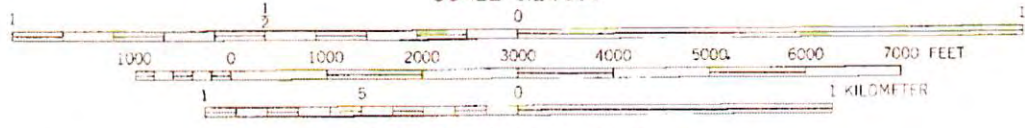


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WELL #R-277

°46 27'30" °47 °48 (WALLACE) 4962 N NW °49 25'

SCALE 1:24000



CONTOUR INTERVAL 20 FEET

'Glover Gap; WV' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt VERTICAL DATUM OF 1929

07/28/2017

WW-7
8-30-06



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

API: 47-049-00294 WELL NO.: R-277

FARM NAME: L. D. Beaty

RESPONSIBLE PARTY NAME: _____

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Glover Gap

SURFACE OWNER: Perry R. & Janice M. Thorne

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,374,838 m

UTM GPS EASTING: 548,812 m GPS ELEVATION: 338 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 X: Post Processed Differential X
Real-Time Differential ____

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

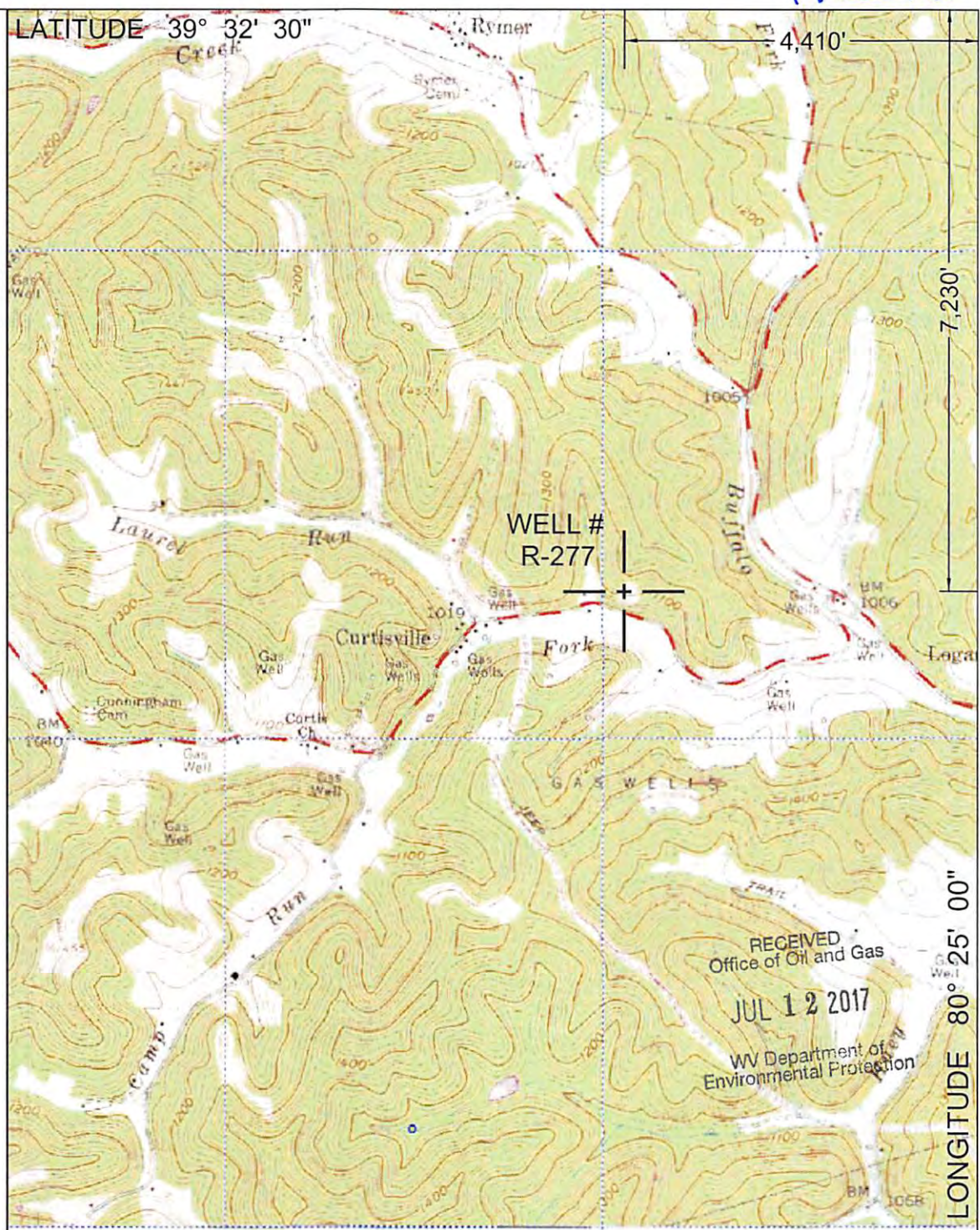
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature]
Signature
July 3, 2017
Date

Professional Surveyor
Title

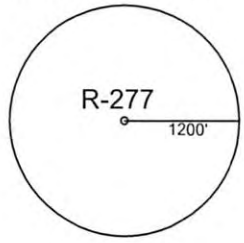
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49 00294P



NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



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UTM ZONE 17 COORDINATES	TRUE LATITUDE/LONGITUDE
NORTHING 4,374,838 METERS	39° 31' 18.19" N
EASTING 548,812 METERS	80° 25' 56.26" W

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 ENVIRONMENTAL PROTECTION.
P.S. 2002



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JULY 3, 20 17
OPERATORS WELL NO. R-277
API WELL NO. 47 - 49 - 00294 P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500
FILE NO.: GLOVERGAP.DWG
SCALE: 1"=2000'
PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.

WV DEP
OFFICE OF OIL AND GAS
601 57TH ST., CHARLESTON, WV 25304



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1110.49' WATERSHED: OWEN DAVY FORK OF BUFFALO CREEK
DISTRICT: MANNINGTON COUNTY: MARION QUADRANGLE: GLOVER GAP, WV 7.5'
SURFACE OWNER: PERRY R. & JANICE M. THORNE ACREAGE: 180.09± ACRES
ROYALTY OWNER: LEASE ACREAGE: LEASE NO.: 07/28/2017
PROPOSED WORK: LEASE NO.:
DRILL: CONVERT: DRILL DEEPER: REDRILL: FRACTURE OR STIMULATE: PLUG OFF OLD:
FORMATION: PERFORATE NEW FORMATION: PLUG AND ABANDON: X CLEAN OUT AND REPLUG: OTHER:
PHYSICAL CHANGE IN WELL (SPECIFY): TARGET FORMATION: NONE ESTIMATED DEPTH:

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH
ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554

COUNTY NAME PERMIT



NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



UTM ZONE 17 COORDINATES		TRUE LATITUDE/LONGITUDE	
NORTHING	4,374,838 METERS	39° 31' 18.19" N	
EASTING	548,812 METERS	80° 25' 56.26" W	

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 ENVIRONMENTAL PROTECTION.

P.S. 2002



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

DATE JULY 3, 2017

OPERATORS WELL NO. R-277

API WELL NO. 47 - 49 - 00294 P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500 FILE NO.: GLOVERGAP8.DWG
PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S. SCALE: 1"=2000'

WV DEP OFFICE OF OIL AND GAS
601 57TH ST., CHARLESTON, WV 25304



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1110.49' WATERSHED: OWEN DAVY FORK OF BUFFALO CREEK

DISTRICT: MANNINGTON COUNTY: MARION QUADRANGLE: GLOVER GAP, WV 7.5'

SURFACE OWNER: PERRY R. & JANICE M. THORNE ACREAGE: 180.09± ACRES

ROYALTY OWNER: LEASE ACREAGE: LEASE NO.: 07/28/2017

PROPOSED WORK: DRILL: CONVERT: DRILL DEEPER: REDRILL: FRACTURE OR STIMULATE: PLUG OFF OLD:

FORMATION: PERFORATE NEW FORMATION: PLUG AND ABANDON: X CLEAN OUT AND REPLUG: OTHER:

PHYSICAL CHANGE IN WELL (SPECIFY): TARGET FORMATION: NONE ESTIMATED DEPTH:

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH
ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554

COUNTY NAME PERMIT