west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, August 10, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for 12436
47-033-01133-00-00

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: 12436
Farm Name: COFFMAN, E. L.
U.S. WELL NUMBER: 47-033-01133-00-00
Vertical Plugging
Date Issued: 8/10/2018

08/10/2018

47-033-01133P

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.

08/10/2018

47-033-01133P

WW-4B
Rev. 2/01

1) Date JUNE 28, 20 18
2) Operator's Well No. 7841
3) API Well No. 47- 033 - 01133

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 1265.81' Watershed NOLAN RUN OF JONES CREEK
District EAGLE County HARRISON Quadrangle WALLACE, WV 7.5'

6) Well Operator CONSOLIDATION COAL COMPANY
Address 1 BRIDGE STREET
MONONGAH, WV 26554

7) Designated Agent DAVID RODDY
Address 1 BRIDGE STREET
MONONGAH, WV 26554

8) Oil and Gas Inspector to be notified
Name SAM WARD
Address P.O. BOX 2327
BUCKHANNON, WV 26201

9) Plugging Contractor
Name
Address

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

SEE EXHIBIT No. 1
&
MSHA 101 C EXEMPTION

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

Work order approved by inspector [signature] Date 7/24/2018

08/10/2018

47-033-01133P

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

X (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.

~~(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".

SDW
7/24/2018

WW-4B

10) Work Order for 7841

1. Remove any surface equipment
2. Kill well by flooding well with water and setting a Class A cement bottom plug if necessary.
3. Remove 4 ½" casing. If not able to pull 150% casing weight then freepoint, cut and remove any free casing.
4. Clean hole to total depth; 3680'
5. Gel hole to 2150' and set class A cement plug from 3680' to 2150'
6. Freepoint, cut and pull 7" casing. Perforate pipe through minable coal seams and Freshwater zones.
7. Set Class A cement plug across 7" casing.
8. Attempt to pull 9 5/8". If not able to pull 150% casing weight then freepoint, cut and remove any free casing. Perforate pipe through minable coal seams and Freshwater zones.
9. Circulate through tubing or drill steel and expanding Class A cement plug from 2150' to surface.
10. A monument will be installed with API No. and stating "solid plug".

RECEIVED
Office of Oil and Gas

AUG 10 2018

WV Department of
Environmental Protection

08/10/2018

47-033-01133P

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.

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 longwall 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 inby the well a sufficient distance to permit adequate ventilation around the area of the wellbore.

o. No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.

p. The mining through operation shall be under the direct supervision of a certified 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

47-033-01133P

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
SUSAN Y. LEE
Mine Safety and Health Technician

cc: Mr. Ronald L. Harris

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9-71

4703301133P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

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WELL RECORD

Rotary X Oil ____
Cable ____ Gas X
Recycling ____ Comb. ____
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Wallace 7½'

Permit No. HAR-1133
47-033

Company George Jackson
Address Box 1698, Clarksburg, W.Va. 52
Farm E. L. Coffman Acres ~~183~~
Location (waters) Nolan's Run
Well No. #1 B-930 (12437 Elev. 1,237'
District Eagle County Harrison
The surface of tract is owned in fee by
Mountaineer Coal Company
Address Monongah, W.Va.
Mineral rights are owned by Mrs. Helen Southern
Address 113 Ridgeway Dr. Bridgeport, WV
Drilling Commenced 12/20/77
Drilling Completed 1/07/78
Initial open flow 40 tenths - 2" cu. ft. ____ bbls.
Final production 858 M cu. ft. per day 24 ~~1300#~~ bbls.
Well open ____ hrs. before test ____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13-10"			
9 5/8	279.20	279.20	sks.
8 5/8			
7	1,504.90	1,504.90	35 sks.
5 1/2			
4 1/2		3,587.95	65 sks.
3			
2			
Liners Used			

Well treatment details: 70,000 Lbs.
Frac well with ~~XXX~~ # of sand, 500 gallons of acid, and 750 bbl. of water

Attach copy of cementing record.

Coal was encountered at 125 ' Feet ____ Inches
Fresh water ____ Feet ____ Salt Water ____ Feet ____
Producing Sand Balltown Depth ____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Red Clay			0	5		
Sand			5	60		
Shale			60	90		
Sand			90	105		
Shale			105	125		
Coal			125	130		
Lime			130	273		
Shale			273	298		
Red Rock			298	350		
Sand			350	550		
Shale			550	1300		
Red Rock			1300	1340		
Shale			1340	1355		
Sand			1355	1365		
Shale			1365	1385		
Red Rock			1385	1460		
Lime			1460	1470		
Shale			1470	1485		
Lime			1485	1540		
Sand			1540	1635		
Red Rock			1635	1640		
Shale			1640	1725		
Sand			1725	2150		

(over)

* Indicates Electric Log tops in the remarks section.

AUG 29 1978

08/10/2018

4703301133P

Formation	Color	Hard or Soft	Top Feet 4	Bottom Feet	Oil, Gas or Water	Remarks
	Shale		2150	2156		
	Sand		2156	2575		
	Shale		2575	2770		
	Sand		2770	2800		
	Shale		2800	2870		
	Sand		2870	2910		
	Shale		2910	3080		
	Sand		3080	3140		
	Shale		3140	3215		
	Sand		3215	3250		
	Shale		3250	3340		
	Sand	Balltown	3340	3550		
	Shale		3550	3680	TD	

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Environmental Protection

Date August 8, 19 78

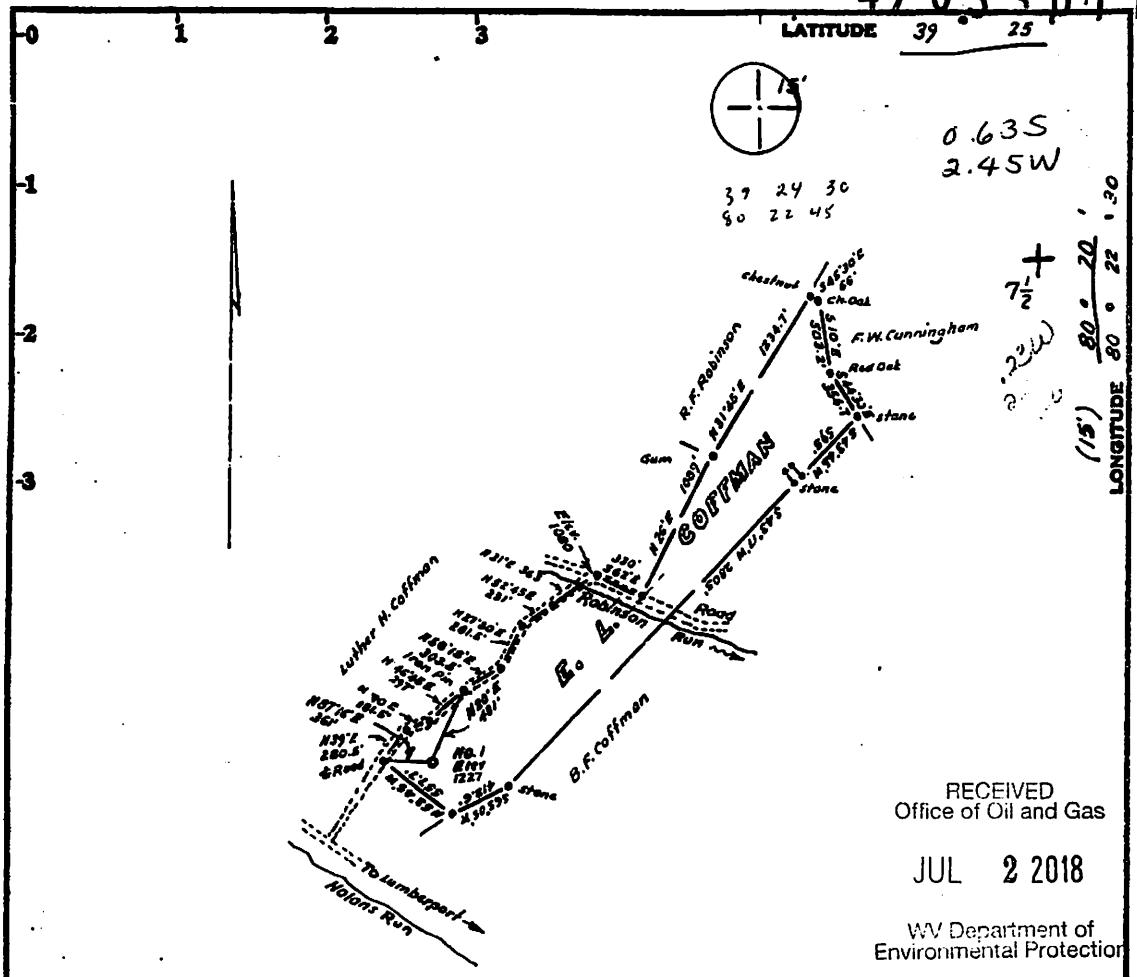
APPROVED George Jackson, Owner

By Hugh Spencer
(Title)

08/10/2018

Plot Log Card CSD

47033 9/6/77 R 33 P



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NOTE: Surface and coal is owned by
The Consolidation Coal Co., Monongah, W.Va.

Minimum Error of Closure 1 in 2500'

Source of Elevation USGS elev. (shown) + 1080'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: Mabbett

Fracture ☐
New Location ☒
Drill Deeper ☐
Abandonment ☐

Map No. Squares: N S E W

Company GEORGE JACKSON
Address Postoffice Box 1698 Clarksburg W.Va.
Farm F.L. Coffman, Mountaineer Coal Co.
Tract Acres 52 Lease No.
Well (Farm) No. One Serial No.
Elevation (Spirit Level) 1227 C
Quadrangle Wallace 7½ CLARKSBURG 15'
County Harrison District Eagle
Engineer Mabbett
Engineer's Registration No. 1227 LLS 200
File No. Drawing No.
Date August 20, 1977 Scale 1"=1000'

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

WELL LOCATION MAP

FILE NO. HAR-1133

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 / 24,000, latitude and longitude lines being represented by border lines as shown.

OCT 7 1977

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

47-033

08/10/2018

TRASCO 500 5-77 MC6333-

21 00' 6-4 D-11 BROWN-LUMBERPORT 104

OG – 1
Rev. – 71

Blanket Bond
#420324

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

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47 033 01133P

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JUL 2 2018
WV Department of
Environmental Protection

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE August 30, 1977

Surface Owner Mountaineer Coal Company
Address Monongah, W. Va.
Mineral Owner Mrs. Helen Southern
Address 113 Ridgeway Drive, Bridgeport, W. Va.
Coal Owner Mountaineer Coal Company
Address Monongah, W. Va.
Coal Operator Mountaineer Coal Company
Address Monongah, W. Va.

Company George Jackson
Address P.O. Box 1698, Clarksburg, W. Va.
Farm E.L. Coffman Acres 52
Location (waters) Nolan's Run
Well No. B-930 (One) Elevation 1,237 Ft.
District Eagle County Harrison
Quadrangle Wallace 7 1/2'

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions 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 1-19-78.

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Barrett
ADDRESS Clarksburg, W. Va.
PHONE 622-3871

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated January 29 19 09 by A.L. Coffman made to Hope Natural Gas Co. and recorded on the ____ day of ____ 19__ in Harrison County, Book 183 Page 33 This is a joint drilling operation between Consolidated Gas Supply Corporation & George Jackson

1 NEW WELL ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE

____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address ____ day ____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name) George Jackson
Well Operator
P.O. Box 1698
Street
Clarksburg
City or Town
West Virginia
State

Address of Well Operator

*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Har-1133
47-033
PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by ____

08/10/2018

"Pipeline"

Select County: (033) Harrison
Enter Permit #: 1133
Get Data Reset

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

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

WV Geological & Economic Survey:

Well: County = 033 Permit = 1133

Report Time: Thursday, June 28, 2018 8:50:47 AM

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4703301133	Harrison	1133	Eagle	Wallace	Clarksburg	39.40785	-80.378819	553479.2	4362221.7

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4703301133	1/-/1978	Original Loc	Completed	E L Coffman	1	B-930				Jackson, George			

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
4703301133	1/-/1978	-/-/-	1237	Ground Level	Brwn-Lumberport	Balltown	Balltown	Development Well	Development Well	Gas	Rotary	Acid+Frac	3680		3680		0	858	0	0			0	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4703301133	1/-/1978	Pay	Gas	Vertical			3550	Balltown	0	0			

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703301133	Consolidated Gas Supply Corp.	1979	22,342	2,680	2,178	1,812	1,532	920	1,402	3,190	2,630	0	0	1,798	4,200
4703301133	Consolidated Gas Supply Corp.	1980	29,712	3,418	2,710	2,794	2,412	2,432	2,936	2,288	5,832	0	0	2,216	2,674
4703301133	Jackson, George	1981	13,691	1,451	1,289	1,390	1,110	1,082	1,208	1,229	1,078	709	875	1,066	1,204
4703301133	Consolidated Gas Supply Corp.	1982	20,410	1,908	1,778	1,624	1,590	1,618	1,910	1,682	1,896	1,728	1,528	1,748	1,400
4703301133	Jackson, George	1982	20,772	1,762	1,908	1,778	1,624	1,590	1,618	1,910	1,682	1,896	1,728	1,528	1,748
4703301133	Consolidated Gas Supply Corp.	1983	16,148	1,664	1,296	1,318	1,582	974	1,532	1,660	364	418	2,342	1,702	1,296
4703301133	Jackson, George	1983	16,252	1,400	1,664	1,296	1,318	1,582	974	1,532	1,660	364	418	2,342	1,702
4703301133	Jackson, George	1984	13,302	1,296	1,550	1,276	1,160	1,418	922	540	100	256	1,990	1,120	1,674
4703301133	Jackson, George	1985	12,732	1,378	1,242	1,016	856	1,234	758	1,328	1,112	848	982	1,036	942
4703301133	Jackson, George	1986	11,592	1,160	750	910	864	1,042	864	862	1,302	1,046	1,072	858	862
4703301133	Jackson, George	1987	8,010	1,020	704	834	674	868	992	732	676	0	0	174	1,336
4703301133	Jackson, George	1988	8,326	1,176	904	270	500	562	0	952	864	838	584	816	860
4703301133	Jackson, George	1989	4,078	356	358	349	305	344	320	326	94	458	123	644	401
4703301133	Jackson, George	1990	3,714	352	306	295	266	318	153	156	179	58	512	450	669
4703301133	Jackson, George	1991	4,660	529	469	484	360	388	362	380	351	329	345	334	329
4703301133	Jackson, George	1992	7,684	604	600	586	528	566	588	626	538	758	836	758	696
4703301133	Jackson, George	1993	5,881	618	620	295	262	63	469	588	630	556	549	540	691
4703301133	Jackson, George	1994	6,788	520	479	434	421	501	729	754	638	625	581	562	544
4703301133	Jackson, George	1996	5,715	530	366	471	440	468	468	544	554	593	185	531	565
4703301133	Jackson, George	1997	5,567	428	503	503	434	497	440	435	466	475	441	406	539
4703301133	Jackson, George	1998	5,308	541	461	459	396	463	443	430	522	249	430	477	437
4703301133	Jackson, George	1999	4,823	471	466	401	395	411	378	369	73	499	479	481	400
4703301133	Jackson Fuel Corporation	2001	4,350	395	344	311	320	340	348	363	326	374	493	368	368
4703301133	Jackson Fuel Corporation	2002	3,820	329	379	346	239	259	321	318	381	352	309	274	313
4703301133	Jackson Fuel Corporation	2003	3,573	258	288	250	237	239	274	296	337	512	305	275	302
4703301133	Jackson Fuel Corporation	2004	3,157	26	397	228	254	274	305	324	282	249	309	261	248
4703301133	Jackson Fuel Corporation	2005	2,785	281	268	212	211	196	240	230	213	190	248	268	228
4703301133	Jackson Fuel Corporation	2006	2,905	218	227	254	217	219	150	341	269	243	260	264	243
4703301133	Jackson Fuel Corporation	2007	3,053	283	284	233	220	243	257	219	279	248	255	266	266
4703301133	Jackson Fuel Corporation	2008	2,915	277	253	227	191	248	241	260	236	220	283	218	261
4703301133	Jackson Fuel Corporation	2009	2,888	260	228	229	183	212	220	245	219	233	301	274	284
4703301133	Jackson Fuel Corporation	2010	2,721	243	185	197	185	228	223	258	273	256	225	203	245
4703301133	Jackson Fuel Corporation	2011	2,610	164	186	223	224	213	241	245	216	216	238	231	213
4703301133	Jackson Fuel Corporation	2012	2,621	231	213	201	186	242	200	213	189	224	245	262	215
4703301133	Jackson Fuel Corporation	2013	2,351	228	208	172	157	204	204	231	191	233	180	175	168
4703301133	Jackson Fuel Corporation	2014	2,236	178	152	122	69	159	160	241	336	211	222	190	196
4703301133	Jackson Fuel Corporation	2015	2,565	149	157	118	129	167	206	187	204	337	298	302	311
4703301133	Jackson Fuel Corporation	2016	2,947	288	286	121	221	323	231	283	300	243	256	269	126
4703301133	Consolidation Coal Co.	2017	3,212	272	241	193	209	239	241	273	333	333	350	259	269

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703301133	Consolidated Gas Supply Corp.	1979	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Consolidated Gas Supply Corp.	1980	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Consolidated Gas Supply Corp.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Consolidated Gas Supply Corp.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1985													
4703301133	Jackson, George	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1990	0	0	0	0	0	0	0	0	0	0	0	0	0

4703301133	Jackson, George	1991	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1992	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1993	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1994	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1996	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1997	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1998	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1999	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2001	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2002	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2003	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2004	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2005	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2006	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2007	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2008	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2009	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2010	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2011	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2012	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2013	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2014	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2015	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2016	0											
4703301133	Consolidation Coal Co.	2017	0	0										

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703301133	Jackson Fuel Corporation	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2016	0												

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703301133	Jackson Fuel Corporation	2016	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703301133	Original Loc	unidentified coal	Well Record	125	Reasonable	5	Reasonable	1237	Ground Level
4703301133	Original Loc	Little Lime	Well Record	1460	Reasonable	10	Reasonable	1237	Ground Level
4703301133	Original Loc	Greenbrier Group	Well Record	1485	Reasonable	150	Reasonable	1237	Ground Level
4703301133	Original Loc	Big Lime	Well Record	1485	Reasonable	55	Reasonable	1237	Ground Level
4703301133	Original Loc	Big Injun (undiff)	Well Record	1540	Reasonable	95	Reasonable	1237	Ground Level
4703301133	Original Loc	Balltown	Well Record	3340	Reasonable	210	Reasonable	1237	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_I
4703301133	0	3690		G,D,I,C.*	Y	N	0	3672	1546	3678			1562	3690					1546	3678	Y	Y	N						

Comment: *logs:caliper,cement top,ccl

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4703301133bg.tif
4703301133gdc.tif
4703301133i.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- 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[1]
- 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 caliper
- o other[1]
- p perforation depth control or perforate

[1]other 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

There is no Plugging data for this well

There is no Sample data for this well

4703301133P

4703301133	Jackson, George	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson, George	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2016	0												
4703301133	Consolidation Coal Co.	2017	0	0											

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703301133	Jackson Fuel Corporation	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703301133	Jackson Fuel Corporation	2016	0												

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703301133	Jackson Fuel Corporation	2016	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703301133	Original Loc	unidentified coal	Well Record	125	Reasonable	5	Reasonable	1237	Ground Level
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4703301133	Original Loc	Balltown	Well Record	3340	Reasonable	210	Reasonable	1237	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCH2	INCH5	REDUCED	KOP	LOGMD	ELEV_KB	ELEV_GL	ELEV_DF	LOG_I
4703301133	0	3690		G,D,I,C,*	Y	N	0	3672	1546	3678			1562	3690					1546	3678	Y	Y	N						

Comment: *logs:caliper,cement top,ccl

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

FILENAME
4703301133bg.tif
4703301133gdc.tif
4703301133i.tif

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click here

geologic log types:
- d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)
- e photoelectric adsorption (PE or Pe, etc.)
- g gamma ray
- 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[1]
- s sonic or velocity
- t temperature (includes borehole temperature, BHT, differential temperature, etc.)
- z spontaneous potential or potential

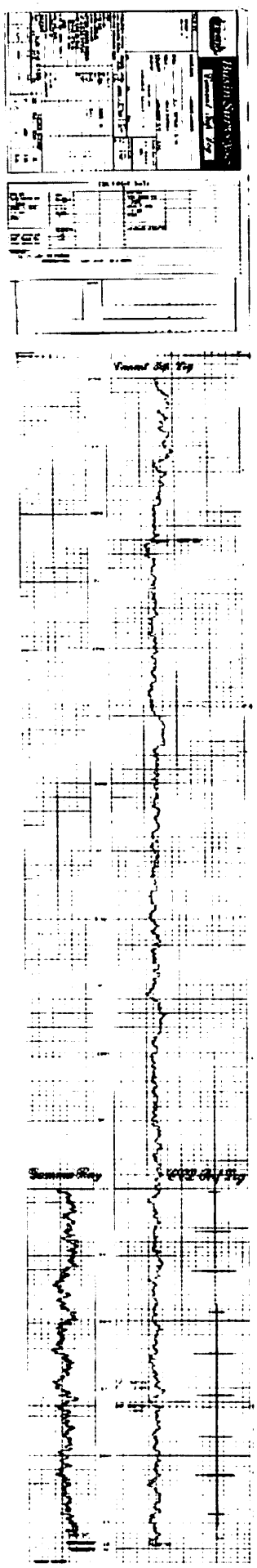
mechanical log types:
- b cement bond
- c caliper
- o other[1]
- p perforation depth control or perforate

[1]other 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

There is no Plugging data for this well

There is no Sample data for this well

4703301133P



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Office of Oil and Gas

JUL 2 2018

WV Department of
Environmental Protection

08/10/2018

4703301133P

RECEIVED
Office of Oil and Gas
JUL 2 2018
WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: JUNE 28, 2018
2) Operator's Well Number 7841
3) API Well No.: 47 - 033 - 01133

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Consolidation Coal Co.
Address: 1 Bridge St.
Monongah, WV 26554

(b) Name
Address

(c) Name
Address

6) Inspector: SAM WARD
Address: P.O. BOX 2327
BUCKHANNON, WV 26201
Telephone: (304) 389-7583

5) (a) Coal Operator
Name: CONSOLIDATION COAL CO.
Address: 1 BRIDGE STREET
MONONGAH, WV 26554

(b) Coal Owner(s) with Declaration
Name
Address

Name
Address

(c) Coal Lessee with Declaration
Name
Address

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: CONSOLIDATION COAL COMPANY
By: DAVID RODDY
Its: PROJECT ENGINEER
Address: 1 BRIDGE STREET
MONONGAH, WV 26554
Telephone: (304) 534-4748

OFFICIAL SEAL
Notary Public, State of West Virginia
JANET L LIEVING
199 Broadview Avenue
Fairmont, WV 26554
My Commission Expires June 13, 2024

Subscribed and sworn before me this 28th day of June, 2018
Notary Public
My Commission Expires June 13, 2024

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 deprivacyoffier@wv.gov.

08/10/2018

47-033-01133P

WW-9
(5/16)

API Number 47 - 033 - 01133
Operator's Well No. 7841

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

Operator Name Consolidation Coal Company OP Code 10950

Watershed (HUC 10) NOLAN RUN OF JONES CREEK Quadrangle WALLACE, WV 7.5'

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 systembe 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.

SDW
7/24/2018

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

Company Official (Typed Name) DAVID RODDY

Company Official Title Project Engineer

Subscribed and sworn before me this 28th day of June 2018

Janet L. Lieving

My commission expires June 13, 2024

OFFICIAL SEAL
Notary Public, State of West Virginia
JANET L LIEVING
199 Broadview Avenue
Fairmont, WV 26554
My commission expires June 13, 2024

08/10/2018

47-033-01133P

Form WW-9

Operator's Well No. 7841

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
See Attachment	100	See Attachment	100

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:

Comments:

Title: OOG Inspector Date: 7/24/2018

Field Reviewed? ( ) Yes (X) No

08/10/2018

4703301137P

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

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

Ronnie Harsh
Project Engineer

4703301133P

CAUDILL SEED • 1064 E MAIN HWY 60 HOUSE #2 • MOREHEAD KY 40351 • AMS # 4923

7M1000

NOTICE TO CONSUMERS

"Notice: Arbitration/conciliation/mediation required by several states. Under the seed laws of several states, arbitration, mediation, or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed, to which this notice is attached, to produce as represented. The consumer shall file a complaint (sworn for AR, FL, IN, MS, SC, TX, WA; signed only CA, ID, ND, SD) along with the required filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner (IN), or Chief Agricultural Officer within such time as to permit inspection of the crops, plants, or trees by the designated agency and the seedsman from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statue."

NOTICE TO BUYER: WE WARRANT THAT SEEDS WE SELL WILL CONFORM TO THE LABEL DESCRIPTION REQUIRED UNDER STATE AND FEDERAL LAWS, WITHIN RECOGNIZED TOLERANCES. WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE, WHICH WOULD EXTEND BEYOND SUCH DESCRIPTIONS, AND IN ANY EVENT OUR LIABILITY FOR BREACH OF ANY WARRANTY OR CONTRACT WITH RESPECT TO SUCH SEED IS LIMITED TO THE PURCHASE PRICE OF SUCH SEEDS.

MIXTURE-COASTAL SEED 2015
LOT NO:7M1000 NET WT 50
CROP: .58 INERT: 1.56 WEED SEED: .26

KIND	VARIETY	ORG	PURE	GERM	HARD	DORM	TEST
ANNUAL RYEGRASS	MAGNUM	OR	29.40	90.00	.00	.00	10/16
ORCHARDGRASS	POTOMAC	OR	11.39	85.00	.00	.00	11/16
COATING MATERIAL			8.00	.00	.00	.00	11/16
PERENNIAL RYEGRASS	LINN	OR	19.60	85.00	.00	.00	11/16
CLOVER	NOT STATED	OR	6.40	85.00	.00	.00	12/16
COATING MATERIAL			3.40	.00	.00	.00	12/16
TIMOTHY	CLIMAX	CAN	9.80	85.00	.00	.00	10/16
BIRDSFOOT TREFOIL	NOT STATED	CAN	2.83	83.00	7.00	.00	11/16
COATING MATERIAL			1.91	.00	.00	.00	11/16
LADINO CLOVER	SEMINOLE	OR	3.17	60.00	25.00	.00	8/16
COATING MATERIAL			1.70	.00	.00	.00	8/16

Memo
Treatments

NOXIOUS WEEDS PER LB:

4703301133P

WW-9- GPP
Rev. 5/16

N/A

Page _____ of _____
API Number 47 - 033 - 01133
Operator's Well No. 7841

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

Operator Name: CONSOLIDATION COAL COMPANY

Watershed (HUC 10): NOLAN RUN OF JONES CREEK Quad: WALLACE, WV 7.5'

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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JUL 2 2018
WV Department of
Environmental Protection

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

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WW-9- GPP
Rev. 5/16

N/A

Page _____ of _____
API Number 47 - 033 - 01133
Operator's Well No. 7841

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.

Signature: _____

Date: _____

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WV Department of
Environmental Protection

08/10/2018

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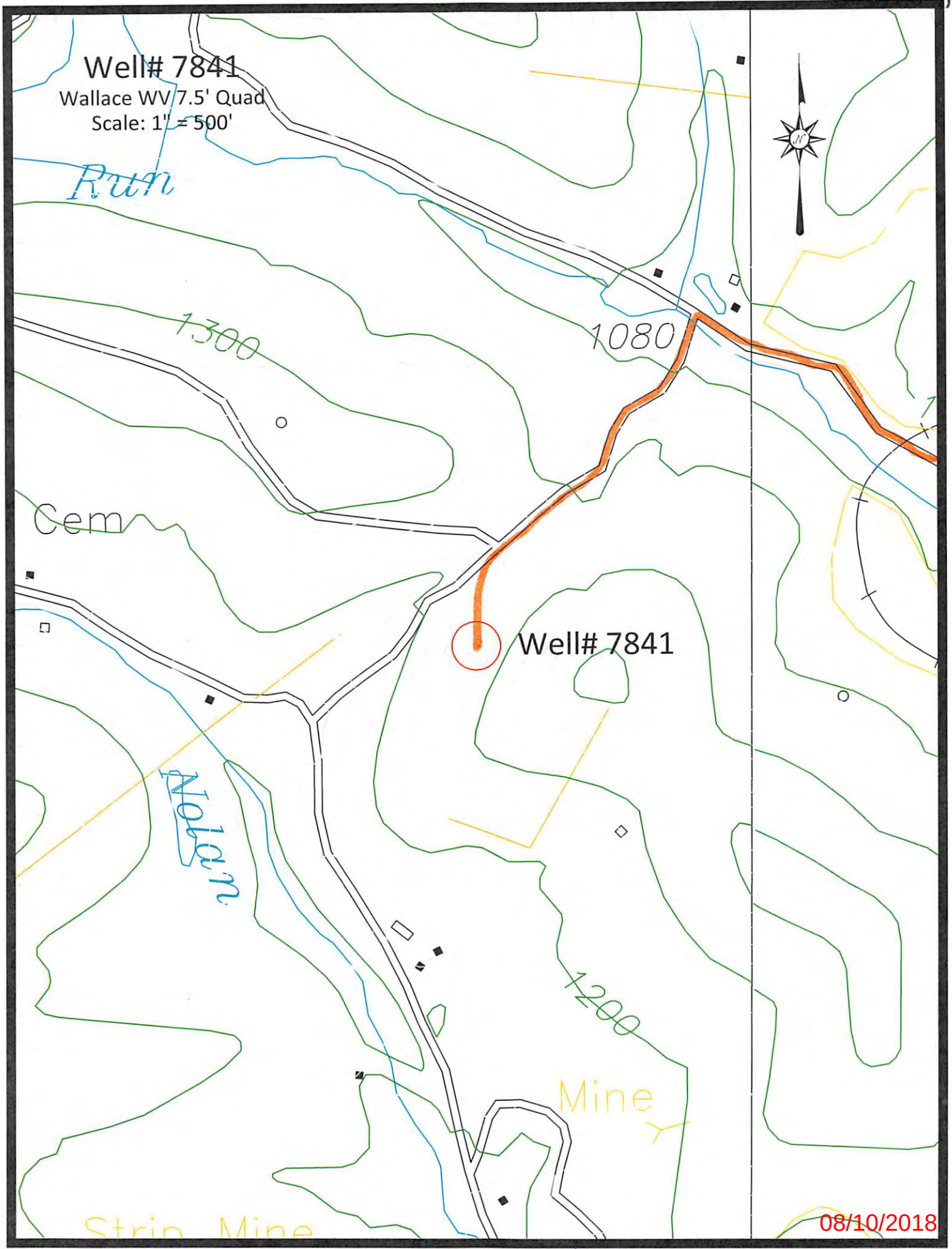

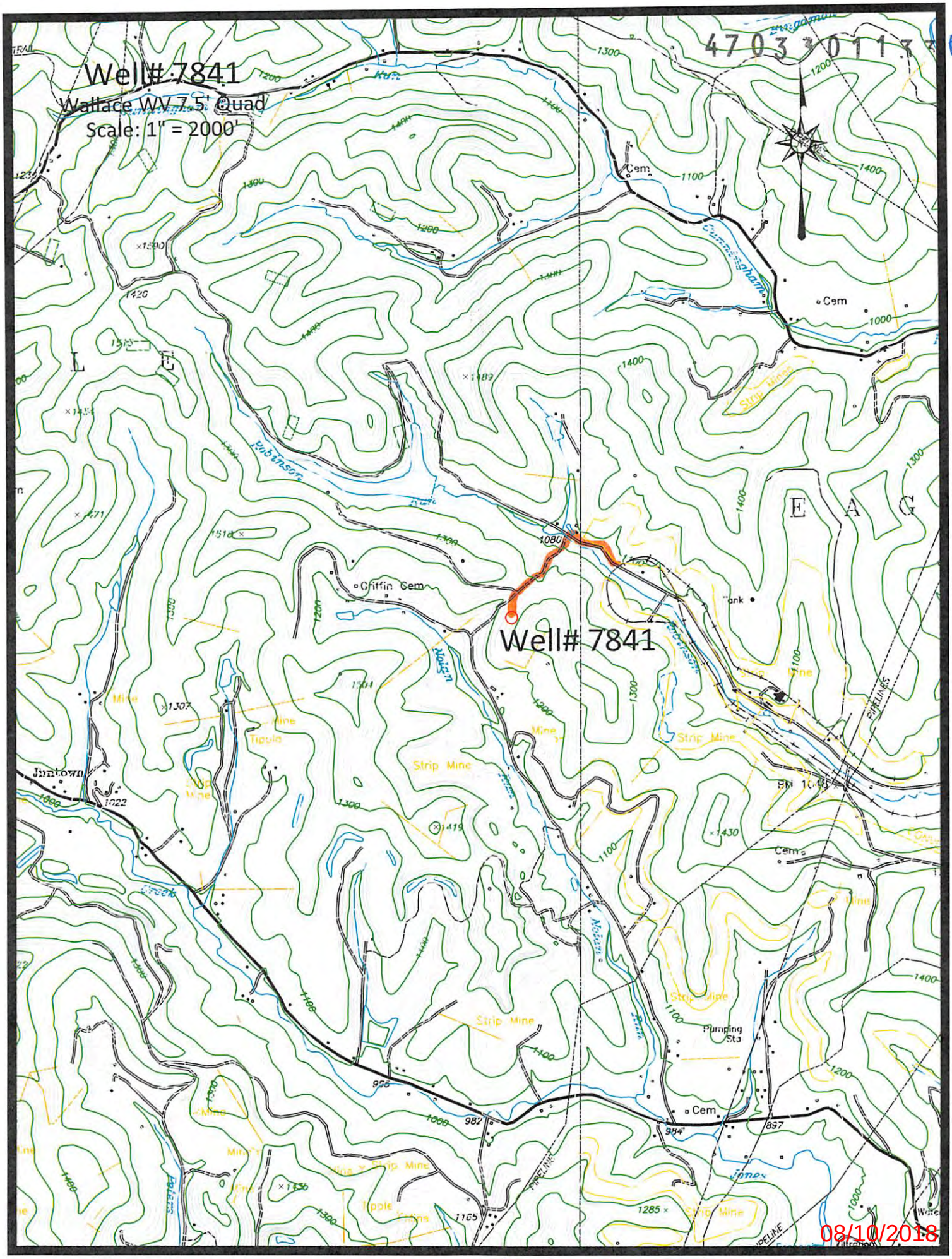
Well#7841
Wallace WV 7.5' Quad
Scale: 1" = 2000'
4703701133P
Well# 7841
Griffin Cem
Juntown
Strip Mine
Tipple
Mine
Cem
Tank
Pumping Sta
PIPELINES
08/10/2018
Access Road

4703301133P
WELL# 7841
EAGLE
Robinson Run
Lyon Cem
Shinn Run
Jones Run
Jimtown
Creek
Peters Run
Nolan Run
Robinson Cem
Burgess Cem
Griffin Cem
Strip Mine
Mine
Tipple
Air Shaft
PRENTICE
LUMBERPORT (W. VA.) 7.5 MI.
ROAD CLASSIFICATION
Heavy-duty
Light-duty
Medium-duty
Unimproved dirt
State Route
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1978
(CLARKSBURG) 39082 N SE
08/10/2018
'Wallace; WV' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

4703301133P

WW-7
8-30-06

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

API: 47-033-01133 **WELL NO.:** 7841

FARM NAME: E. L. COFFMAN

RESPONSIBLE PARTY NAME: CONSOLIDATION COAL COMPANY

COUNTY: HARRISON **DISTRICT:** EAGLE

QUADRANGLE: WALLACE WV 7.5'

SURFACE OWNER: CONSOLIDATION COAL COMPANY

ROYALTY OWNER:

UTM GPS NORTHING: 4,362,160 m (1266')

UTM GPS EASTING: 552,484 m **GPS ELEVATION:** 386 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:

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

Survey grade GPS __x__: Post Processed Differential _____

Real-Time Differential __X__

Mapping Grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

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Office of Oil and Gas
JUL 2 2018
WV Department of
Environmental Protection

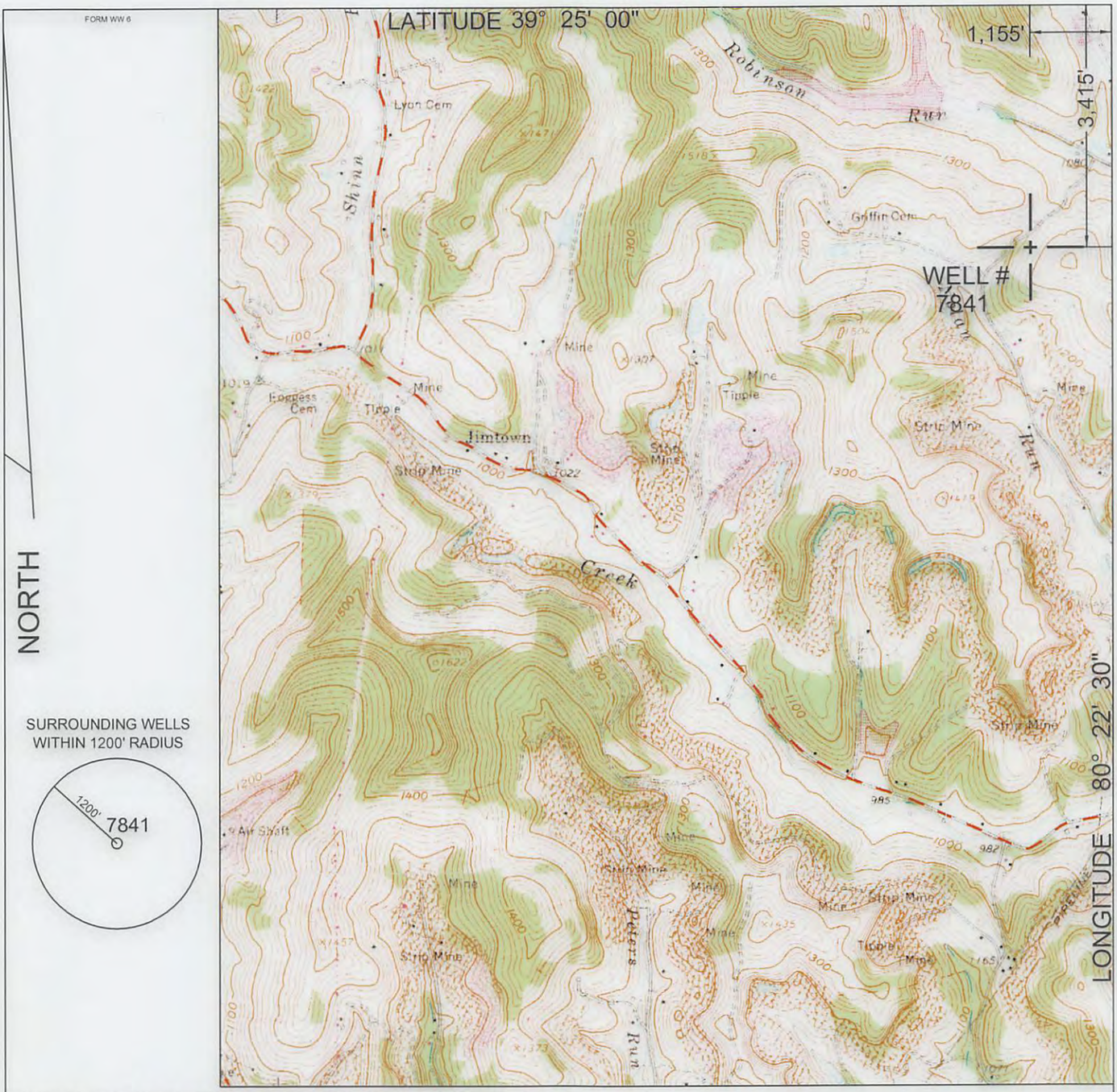
4. **Letter size copy of the topography map showing the well location.**

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	Professional Surveyor	JUNE 28, 2018
	Title	Date

08/10/2018

FORM WW 6



UTM ZONE 17 COORDINATES		TRUE LATITUDE/LONGITUDE
NORTHING	4,362,160 METERS	39° 24' 25.9" N
EASTING	552,484 METERS	80° 22' 44.2" 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

TROY B. FREELS LICENSED No. 2002 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JUNE 28 , 20 18

OPERATORS WELL NO. 7841

API WELL NO. 47 — 33 — 01133 P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 2500 FILE NO.: WALLACE9.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 X LIQUID INJECTION ____ WASTE DISPOSAL ____ "GAS" PRODUCTION ____ STORAGE ____ DEEP ____ SHALLOW X

LOCATION:

ELEVATION: 1265.81 WATERSHED: NOLAN RUN OF JONES CREEK

DISTRICT: EAGLE COUNTY: HARRISON QUADRANGLE: WALLACE, WV 7.5'

SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 39.15± ACRES

ROYALTY OWNER: ____ LEASE ACREAGE: ____

PROPOSED WORK: ____ LEASE NO.: ____ 08/10/2018

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: ____

COUNTY NAME PERMIT

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: DAVID RODDY

ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554