

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

Monday, June 18, 2018 WELL WORK PLUGGING PERMIT Vertical Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for M-1658 47-051-01683-00-00

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: M-1658

Farm Name: MCELROY COAL COMPANY

U.S. WELL NUMBER: 47-051-01683-00-00

Vertical Plugging
Date Issued: 6/18/2018

PERMIT CONDITIONS

ORIGIN ALLY

47-051-30444

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.
- In the event of an accident or explosion causing loss of life or serious personal injury in or about
 the well or while working on the well, the well operator or its contractor shall give notice, stating
 the particulars of the accident or explosion, to the oil and gas inspector and the Chief within
 twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date	MAY	14		,	20	18	
2) Opera						-	
Well	No.		M	-1658			
3) API Y	vell'	No.	47-	851	-	01683	rule

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas _X / Liquid	d injection / Waste dispused /
		derground storage) Deep/ Shallow
	fill decreases	Jeep Jeep Jeep Jeep Jeep Jeep Jeep Jeep
5)	Location: Elevation 1271.18	Watershed NORTH FORK OF GRAVE CREEK
	District CAMERON	County MARSHALL Quadrangle CAMERON, WV,PA 7.5
6)	Well Operator CONSOLIDATION COAL COMPANY	7) Designated Agent DAVID RODDY
	Address 1 BRIDGE STREET	Address 1 BRIDGE STREET
	MONONGAH, WV 26554	MONONGAH, WV 26554
		to contribut the contribution of contribution of the contribution
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name JAMES NICHOLSON	Name_Coastal Drilling
	Address P.O. BOX 44	Address 130 Meadow Ridge Road, Suite 24
	MOUNDSVILLE, WV 26041	Mt. Morris, PA 15349
PERENDANA		
	MSHA 101 C ENEMPTION FOR U-113383	API 47-051-30444
		Office of Oil and Gas
		III and Gas
		JUN 0 6 2018
-		Environ Department
		WV Department of Environmental Protection
Notif Work	ication must be given to the district oil can commence.	l and gas inspector 24 hours before permitted
Work	order approved by inspector fue Ua	Colli Dato 5/23/18

	Operator's Well No.
Proposed Revegetation Treatment: Acres Disturbed 1	Preveg citation pH
Lime 3 Tons/acre or to correct to pl	н 6.0
Fertilizer type 10-20-20 or equivalent	
Fertilizer amount 500	lbs/acre
Mulch 2 Tons	
<u>Se</u>	ed Mixtures
Temporary	Permanent
Seed Type lbs/acre Seed Mix in accordance with WVDEP Oil	Seed Type ibs/acre Seed Mix in accordance with WVDEP (
and Gas, Erosion and Sedlment Control	and Gas, Erosion and Sediment Contro
Field Manual	Field Manual
Attach: Maps(s) of road, location, pit and proposed area for land applis provided). If water from the pit will be land applied, provide v I., W), and area in acres, of the land application area.	cation (unless engineered plans including this info have be water volume, include dimensions (L, W, D) of the pit, and
Maps(s) of road, location, pit and proposed area for land applic provided). If water from the pit will be land applied, provide u	cation (unless engineered plans including this info have b water volume, include dimensions (L, W, D) of the pit, and
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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.



- (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal ≈ 997'. 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".

U. S. Department of Labor

Mine Safety and Health Administration FCE/VED 4015 Wilson Boulevard MAY 18 1989

MICHAEL R. PEELISH



MAY 15 1989

U-113383

In the matter of McElroy Coal Company McElroy Mine I.D. No. 46-01437 Petition for Modification

Docket No. M-88-199-C

PROPOSED DECISION AND ORDER

On October 17, 1988, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's McElroy Mine, located in Marshall County, West Virginia. The Petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

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

Finding of Fact and Conclusion of Law

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

On the basis of the petition and the findings of MSHA's investigation, McElroy Coal Company is granted a modification of the application of 30 CFR 75.1700 to its McElroy Mine.

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 McElroy Coal Company's Petition for Modification of the application of 30 CFR 75.1700 in the McElroy Mine is hereby:

GRANTED, conditioned upon compliance with all provisions of the Petitioner's alternative method and the following terms and conditions:

- I. Procedures to be utilized when plugging gas or oil wells.
 - (a) <u>Cleaning out and preparing oil and gas wells.</u> Prior to plugging an oil or gas well, the following procedure shall be followed:
 - (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest mineable coalbed.
 - (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest mineable coalbed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
 - (4) A suite of logs shall be made consisting of a caliper survey directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest mineable coalbed and potential hydrocarbon producing strata and the location for the bridge plug.
 - (5) If the uppermost hydrocarbon-producing stratum is within 200 feet of the base of the lowest mineable coalbed, properly placed mechanical bridge plugs or a suitable brush plug described in subparagraph (a)(3) shall be used to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest mineable coalbed.
 - (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of

gas, supports the walls of the borehole, and densifies the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.

- (b) Plugging oil or gas wells to the surface. The following procedures shall be utilized when plugging gas or oil wells to the surface:
 - 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 bore-(As an alternative, the hole to the surface. cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest mineable coalbed to the surface with an expanding cement plug extending from at least 200 feet below the lowest mineable coalbed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.
- (c) <u>Plugging oil or gas wells using the vent pipe</u>
 <u>method.</u> The following procedures shall be utilized
 when using the vent pipe method for plugging oil and
 gas wells:
 - (1) A 4 1/2-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest mineable coalbed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
 - (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expand-

ing cement for a minimum of 200 feet below the base of the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest mineable coalbed.

- (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
- (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- (d) Plugged 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 mineable coalbed. The top of the expanding cement shall extend upward to a point above the top of the coalbed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.
 - (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
 - (3) The annulus between the degasification casing and the borehole wall shall be cemented from a point immediately above the slots or perforations to the surface.
 - (4) The degasification casing shall be cleaned out for its total length.
 - (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shutin valves, sampling

ports, flame arrestor equipment, and security fencing.

- II. The following procedures shall apply to mining through a plugged oil or gas well:
 - (a) The operator shall notify the District Manager or designee:
 - (1) Prior to mining within 300 feet of the well; and
 - (2) When a specific plan is developed for mining through each well.
 - (b) The MSHA District Manager or designee shall 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 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 or conventional mining methods, drivage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well and again, if necessary to ensure that the sight line is not more than 50 feet from the well.
 - (f) Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. When the longwall mining method is implemented, the fire hose shall be extended to the face area of the mine through. All fire hoses shall be ready for operation during the mining through.

- (g) Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs, shall be available within the immediate area of the cut through.
- (h) The quantity of air required by the approved ventilation system and methane and dust control plan, but not less than 9,000 cubic feet of air per minute shall be used to ventilate the working face during the mining through operation. On longwall sections, a minimum of 20,000 cfm shall be used to ventilate the working face during the mining through operation.
- (i) Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well.
- (j) The methane monitor on the longwall, continuous mining machine, or cutting machine and loading machine shall be calibrated on the shift prior to mining through the well.
- (k) When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine, cutting machine, or loading machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 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.
- (1) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- (m) When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until

adequate ventilation has been established around the wellbore.

- (n) After a well has been intersected and the working place determined safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- (o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- (p) The mining through operation shall be under the direct supervision of a certified 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 Proposed Decision and Order becomes final, the Petitioner shall submit proposed revisions for their approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the alternative method stated in the petition and the special terms and conditions stated in the Proposed Decision and Order.

The terms and conditions of this Proposed Decision and Order shall supersede conflicting provisions in the Petitioner's proposed alternative method.

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days, a request 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.

Agministrator

for Coal Mine Safety and Health

Certificate of Service

Michael R. Peelish, Esq. Consolidation Coal Company 1800 Washington Road Pittsburgh, Pennsylvania 15241 Ms. Linda Raisovich-Parsons Special Assistant United Mine Workers of America 900 Fifteenth Street, NW. Washington, DC 20005

Michael H. Holland, Esq. United Mine Workers of America 900 Fifteenth Street, NW. Washington, DC 20005

> MARY ANN GRIFFIN Mine Safety Clerk

Cameron District, Marshall County, W. Va. By Handfacturers light & Heat Co. Completed Nov. 5, 1914.
Record from Mr. Schillhalm Sept. 30, 1939.

	Top. Bottom.
Fistaburgh Coal	790 - 797
Marchy Sand	<i>5</i> 95 - 920
14ttle Dunkard Sand	1165 - 1215
Hig Dunkard Sand	1255 - 1290
Big Line	1828 - 1925
Big Injun Send	1925 - 2175
50-Foot Sand	2725 - 2730
Cordon Street Sand (gas, 27721)	2770 - 2790
Gerdon Sand	2792 - 2812
Istal depth	5856

RECEIVED
Office of Oil and Gas

MAY 2 1 2018

WV Department of Environmental Protection



Select County:	(051) Marshall	•	Select datatypes:	(Check All)	
Enter Permit #:	30444		✓ Location	✓ Production	Plugging
			✓ Owner/Completion	Stratigraphy	✓ Sample
Get Data	Reset		✓ Pay/Show/Water	✓ Logs	

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

WV Geological & Economic Survey:

Well: County = 051 Permit = 30444

Report Time: Thursday, May 03, 2018 5:27:39 AM

Location Information: View Map

 COUNTY
 PERMIT
 TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTME
 UTMN

 Marshall
 30444
 Cameron
 Cameron
 Cameron
 39.858309
 -80.546834
 538762
 4412129.3
 4705130444 Marshall 30444 Cameron

There is no Bottom Hole Location data for this well

Owner Information:

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 Manufacturers Light & Heat Co. 2125 unknown 4705130444 11/5/1914 Original Loc Completed A R Burley 1788

| API | CMP_DT SPUD_DT | ELEV DATUM | FIELD | DEEPEST_FM | Deepest_FM

Pay/Show/Water Information:

G_BEF G_AFT O_BEF O_AFT WATER_QNTY 2772 Gordon Stray

There is no Production Gas data for this well

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

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

There is no Production Water data for this well

Stratigraphy Information:

API	SUFFIX	FM	FM QUALITY	DEPTH TOP	DEPTH QUALITY	THICKNESS	THICKNESS_QUALITY		DATUM
		Pittsburgh coal	Well Record		Reasonable	7	Reasonable	1274	Ground Level
		Connisvi Ss/Minshall	Well Record	895	Reasonable	25	Reasonable	1274	Ground Level
				1185	Reasonable	30	Reasonable	1274	Ground Level
		Mahonig Ss/Big Dunk		1255	Reasonable	35	Reasonable	1274	Ground Level
4705130444			Well Record	1828	Reasonable	97	Reasonable	1274	Ground Level
		Big Injun (undiff)	Well Record		Reasonable	250	Reasonable	1274	Ground Level
4705130444			Well Record		Reasonable	5	Reasonable	1274	Ground Level
		Gordon Stray	Well Record		Reasonable		Reasonable	1274	Ground Level
4705130444			Well Record		Reasonable		Reasonable	1274	Ground Level

There is no Wireline (E-Log) data for this well

Plugging Information:

PLG_DT DEPTH_PBT 4705130444 7/12/1962

There is no Sample data for this well

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



Select County: (051) Marshall ▼ Select datatypes: (Check All) ✓ Location ✓ Production ✓ Plugging Enter Permit #: 1683 Owner/Completion Stratigraphy ✓ Sample Get Data Reset **✓** Logs ✓ Btm Hole Loc ✓ Pay/Show/Water

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

WV Geological & Economic Survey

Well: County = 051 Permit = 1683

Report Time: Thursday, May 03, 2018 5:22:15 AM

Location Information: View Map

 COUNTY
 PERMIT
 TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAT_DD
 LON_DD
 UTMR
 UTMN

 Marshall
 1683
 Cameron
 Cameron</td 4705101683 Marshall 1683 Cameron

There is no Bottom Hole Location data for this well

Owner Information:

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 McElroy Coal Company Plugging Permitted McElroy Coal Company

Completion Information:

FIELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG G_BEF G_AFT O_BEF O_AFT NGL_BEF NGL_AFT P_BEF TI_BEF P_AFT TI_AFT BH_P_BEF BH_P_AFT NGL_BEF NGL_AFT P_BEF TI_BEF P_AFT TI_AFT BH_P_BEF BH_P_AFT NGL_BEF NGL_AFT P_BEF TI_BEF P_AFT TI_AFT BH_P_BEF BH_P_AFT NGL_BEF NGL_AFT NGL_BEF NGL_AFT P_BEF TI_BEF P_AFT TI_AFT BH_P_BEF BH_P_AFT NGL_BEF NGL_AFT NGL_BEF NGL_AFT P_BEF TI_BEF NGL_AFT NGL_BEF API CMP_DT SPUD_DT ELEV DATUM 4705101683 -/-/- -/-/- 1271 Ground I 1271 Ground Level

There is no Pay data for this well

There is no Production Gas data for this well

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

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

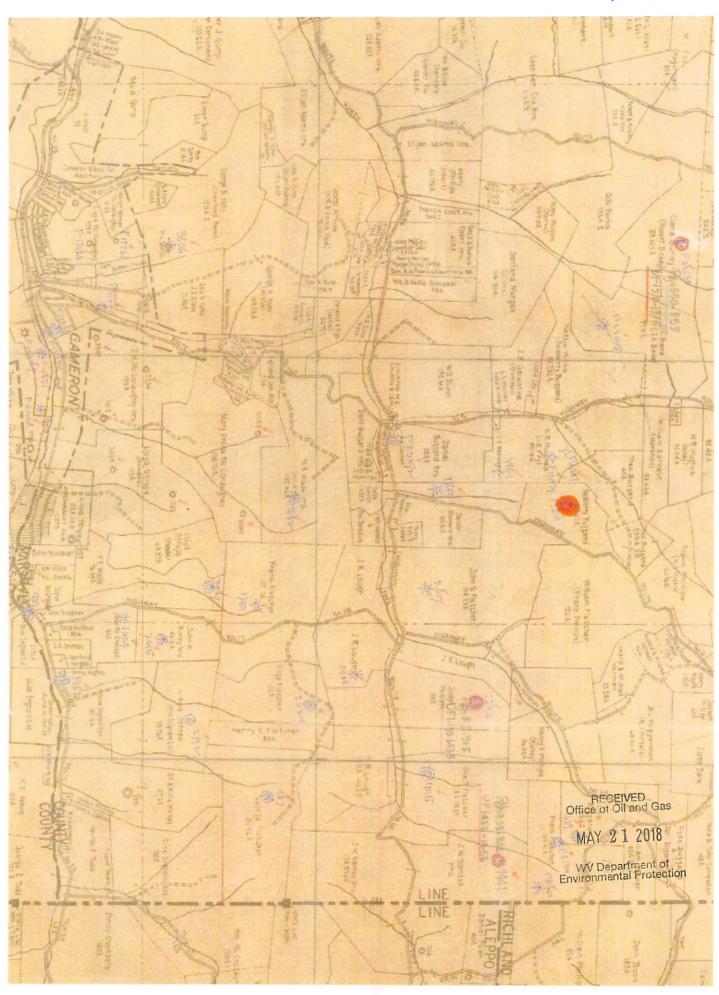
There is no Production Water data for this well

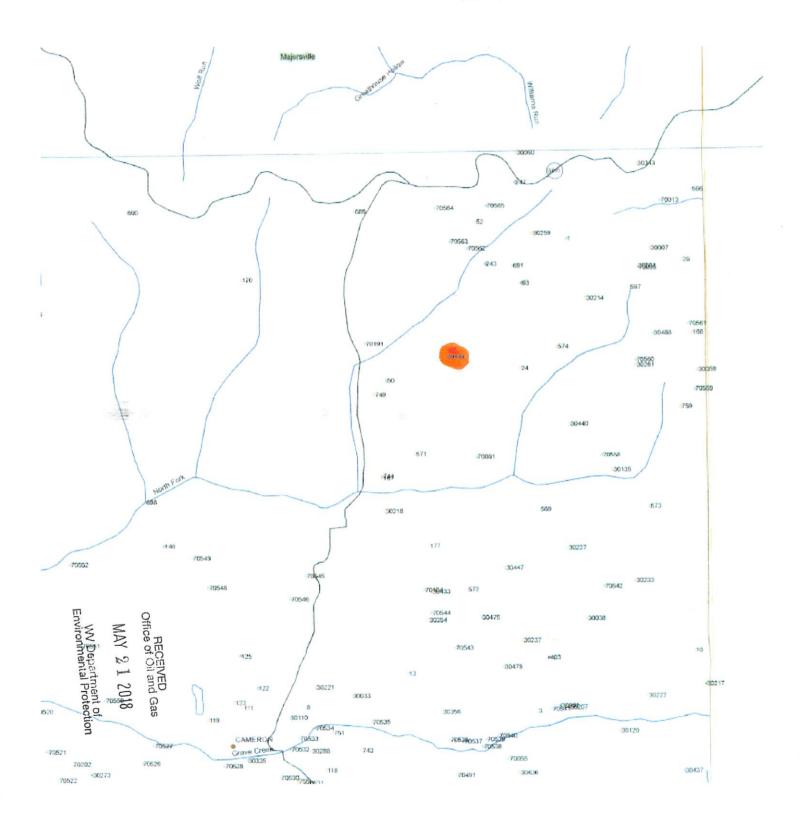
There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well







1.A. Bane

\$ 20060

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COAL OWNED BY	. 4.035 I
	4.03S 2.50W
NEW LOCATION	
ABANDONNENT	0-25-2
COMPANY THE MANUFACTURES LIGHT FHEAT	
ADDRESS SOO LINION TRUST BLOS. PGN.PA.	STATE OF WEST VIRGINIA
FARM A.O. BURLEY	DEPARTMENT OF MINES OIL AND GAS DIVISION
1	CHARLESTON
TRACITORCOEEADE NO	RECEIVED Office of Oil and Gas
WELL (FARM) NO. SERIAL NO. 1799	WELL LOCATION MAP
ELEVATION (SPIRIT LEVEL) 1373.5"	FILE NO. MA MAY 21 2018
QUADRANGLE CHARERON	, ·
COUNTY MARSHALL DISTRICT CAMERON	WV Department of Environmental Protection + DENOTES LOCATION OF WELL ON UNITED STATES TOPO-
ENGINEER Total Miles	Graphic Maps, scale 1 to 62,500, Latitude and Longitude
ENGINEER'S REGISTRATION No. 36/-E	Lines being represented by Border Lines as Shown.
FILE NODRAWING NO. V.25-5/3	— DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.
DATE 2 APR. 62 SCALE / "400"	***************************************

Cameron District, Marshall County, W. Va. By Hammacturers Ident & Heat Co. Completed Nov. 5, 1914.
Record from Mr. Schillhahm Sept. 30, 1939.

	Top, Bottom.
Pittsburgh Coal	790 - 797
Marchy Sand	<i>8</i> 95 - 920
Idttle Dunkard Sand	1165 - 1215
Hig Dunkard Sand	1255 - 1290
Ng line	1828 - 1925
Big Injun Send	1925 - 2175
50-Foot Sand	2725 - 2730
Cordon Struy Sand (gas, 2772')	2770 - 2790
Gerdon Sand	2792 - 2812
Istal depth	2826



Marshall County Real Property - Tax Year: 2017

Ticket Number:

0000004113

Account Number:

00002236

District:

03 - CAMERON

Taxpayer I.D.:

Owner Name: DURBIN KEVIN R & KRISTA A

In Care of:

Address: 1905 BURLEY HILL RD

CAMERON WV 26033

Lending Inst:

Property: 48.62 M GRAVE CREEK LESS ALL MINERALS

Map: 7

Parcel: 0008 0000 0300

Lot Size:

Acreage:

Book: 788

Page: 406

Tax Class: 2

Homestead **Exemption:**

Back Tax:

Exoneration:

Prior **Delinquents:**

Special Disposition:

AMOUNTS DUE:

First Half: none due Second Half: none due Total Due: none due

ASSESSMENT:

Assessment	GROSS	NET	TAX (1/2 Year)
Land	1200	1200	
Building	0	0	
Total	1200	1200	6.33

PAYMENTS RECEIVED:

Net	First Half	Second Half				
	6.33	6.33				
Discount	.16	.16				
Interest	.00	.00				
Total	6.17	6.17				
Date	08/14/2017	02/13/2018				

Format for Printer

RECEIVED Office of Oil and Gas

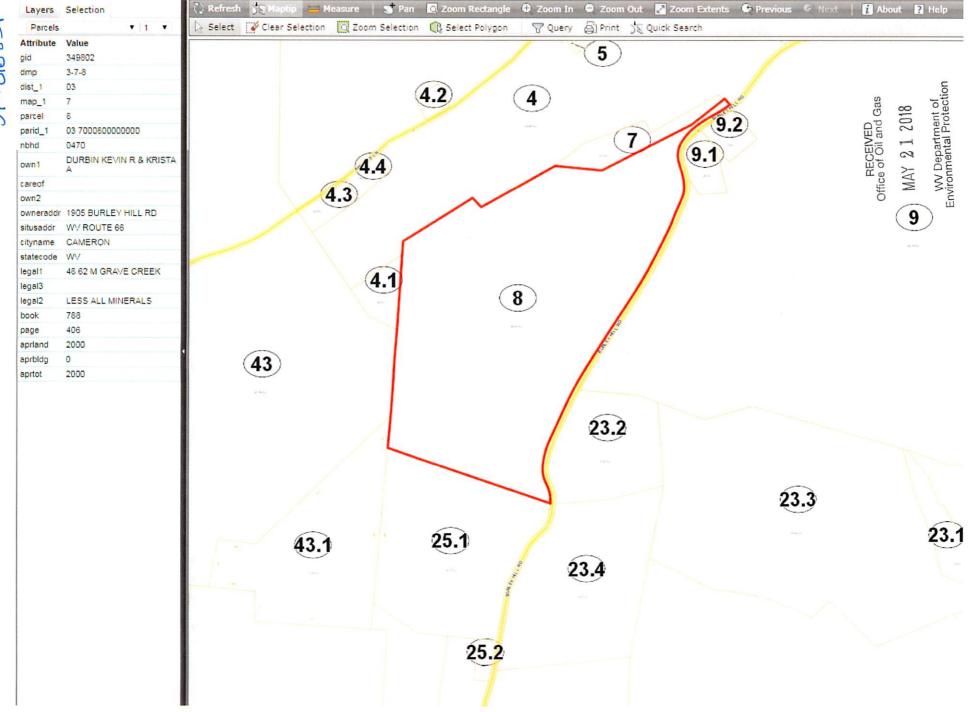
MAY 2 1 2018

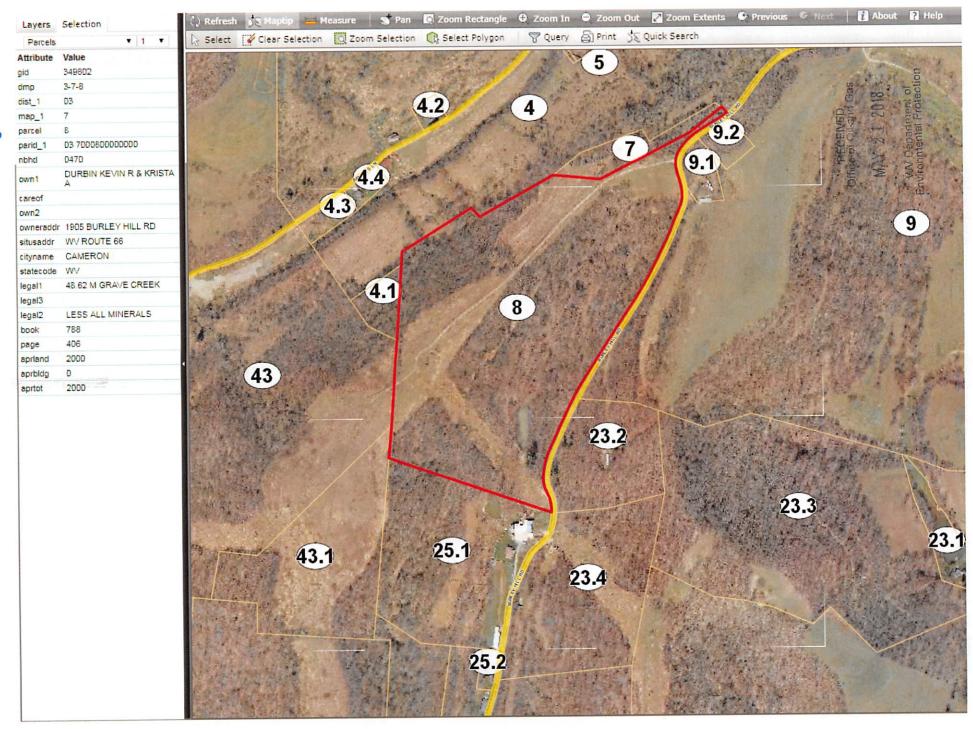
WV Department of Environmental Protection

Click here to begin a new search.



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COAL OWNED BY	2.50 RNDEIVED
NEW LOCATION	
ABANDONMENT	MAY 2 1 2018
TO THE CONTROL OF THE	WV Department of Environmental Protection
COMPANY THE MANUFACTURERS LIGHT F HEAT	STATE OF WEST VIRGINIA
ADDRESS 800 UNION TRUST BLOG, PGH.PA.	DEPARTMENT OF MINES OIL AND GAS DIVISION
FARM A.O. BURLEY TRACTACRES48 LEASE NO. 2125	CHARLESTON
WELL (FARM) NO SERIAL NO	
ELEVATION (SPIRIT LEVEL) 1273.5"	WELL LOCATION MAP
QUADRANGLE CAMERON	FILE NO. MARS- 444-R
COUNTY MARSHALL DISTRICT CAMERON	
ENGINEER Robert M. Hall	+ DENOTES LOCATION OF WELL ON UNITED STATES TOPO- GRAPHIC MAPS, SCALE 1 TO 62,500, LATITUDE AND LONGITUDE
ENGINEER'S REGISTRATION No. 36/-E (J.F.)	LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
FILE NO	— DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.
DATE 2 APR. 62 SCALE 1": 400"	

WW-4A Revised 6-07

1) Date:	MAY 4, 2018	MAY 4, 2018				
2) Operator's Well Numb	er					
	M-1658					
3) API Well No.: 47 -	051		01683	mulei.		

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL A

 Surface Ow Name 	ner(s) to be served: KEVIN R. & KRISTA A. DURBIN	5) (a) Coal Operator Name CONSOLIDATION COAL CO.
Address	1905 BURLEY HILL RD.	Address 1 BRIDGE STREET
	CAMERON, WV 26033	MONONGAH, WV 26554
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name
		Address
(c) Name		Name
Address		Address
6) Inspector	JAMES NICHOLSON	(c) Coal Lessee with Declaration
Address	P.O. BOX 44	Name
	MOUNDSVILLE, WV 26041	Address
Telephone	(304) 552-3874	
TO THE PE	RSONS NAMED ABOVE	You should have received this Form and the following documents:
	application to Plug and Abandon a Wellits and the plugging work order; and	on Form WW-4B, which sets out the parties involved in the work and describes the
		cation on Form WW-6.

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.

Z****************	=======================================
S IN FEST	OFFICIAL SEAL =
SOF WEST A	STATE OF WEST VIRGINIA
= 12/3 7/24	NOTARY PUBLIC =
= 12/2/12/12/12/12/12/12/12/12/12/12/12/12	Christian K Warfield
三日。《台灣學》	Murray American Energy Inc
	6126 Factor Davidy Inc
= 13	6126 Energy Road
S SEMPLE	Moundsville WV 26041
= -	My Commission Expires June 10, 2024
201111111111111111111111111111111111111	200000000000000000000000000000000000000

Well Operator	CONSOLIDATION COAL COMPANY	
By:	Jay Hores	
Its:	PROJECT ENGINEER	
Address	6126 ENERGY ROAD	
	MOUNDSVILLE, WV 26041	
Telephone	(304) 843-3565	

Subscribed and sworn bef	ore me this 17 day of May	2018 Notary Public	
My Commission Expires	June 10, 2024		

Oil and Gas Privacy Notice

RECEIVED Office of Oil and Gas

The Office of Oil and Gas processes your personal information, such as name, address and phone numbers as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or Mard Parties libthe 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 preparties of personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov. Environmental Protection

WW-9 (5/16)

API Number 47 -	051	-	01683
Operator's Well No.			

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) NORTH FORK OF GRAVE CREEK Quadrangle CAMERON, WV,PA 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? 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.
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/orother applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that BERNITO significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Signature Application formation, including the possibility of fine or imprisonment. Company Official Title Project Engineer Company Official Title Project Engineer
Subscribed and swom before me this 17 day of May , 20 18 Christian Wafield Notary Public My commission expires June 10, 2024
My commission expires June 10, 2024

	Operator's Well No.
Proposed Revegelation Treatment: Acres Disturbed 1	Preveg ctation pH
Lime 3 Tons/acre or to correct to	
Fertilizer type 10-20-20 ar equivalent	
Fertilizer amount 500	_bs/acre
Mukh ² To	
:	Seed Mixtures
Teniporary	Permanent
Seed Type the face Seed Mix in accordance with WVDEP Oil	Seed Type lbs: nere Seed Mix in accordance with WVDEP Oil
and Gas, Erosion and Sediment Control	and Gas, Erosion and Sediment Control
Field Manual	Field Manual
Maps(s) of road, location, pit and proposed area for land ap provided). If water from the pit will be land applied, provide	plication (unless engineered plans including this info have been e water volume, include dimensions (L, W, D) of the pit, and dime
Attach: Maps(s) of road, location, pit and proposed area for land approvided). If water from the pit will be land applied, provid IL, W), and area in acres, of the land application area. Photocopied section of involved 7.5 topographic sheet.	plication (unless engineered plans including this info have been to water volume, include dimensions (L, W, D) of the pit, and dime
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Office of Oil and Gas

JUN 0 6 2018

WV Department of Environmental Protection WW-9- GPP Rev. 5/16 N/A

Pa	ige	of	
API Number 47 -	051	 01683	
Onerator's Well No.			

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

Ор	erator Name: CC	NSOLIDATION COAL COMPANY	
Wa	atershed (HUC 10):	NORTH FORK OF GRAVE CREEK	Quad: CAMERON, WV,PA 7.5'
1.	List the procedure groundwater.	es used for the treatment and dischar	rge of fluids. Include a list of all operations that could contaminate the
2.	Describe procedu	res and equipment used to protect gr	oundwater quality from the list of potential contaminant sources above
3.	List the closest v	vater body, distance to closest water	er body, and distance from closest Well Head Protection Area to th
4.	Summarize all ac	tivities at your facility that are alread	ly regulated for groundwater protection.
			RECEIVED
L			Office of Oil and Gas

MAY 2 1 2018

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

WV Department of Environmental Protection

WW-9- GPP Rev. 5/16	N/A	Page of
6. Provide a statement that n	no waste material will be used for deicin	g or fill material on the property.
7. Describe the groundwate provide direction on how	r protection instruction and training to to prevent groundwater contamination.	be provided to the employees. Job procedures shall
	·	
8. Provide provisions and fr	equency for inspections of all GPP elen	ments and equipment.
·		
Signature:		RECEIVED Office of Oil and Gas
Date:		Office of Oil and Gas MAY 2 1 2018

WV Department of Environmental Protection





STATE OF WEST VIRGINIA REPRESENTED BY THE

STATE OF WEST VIRGINIA GEOLOGICAL SURVEY





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

	44 T.T.	L LOCATIO	IN FORMI. GIV	,
API: 47	7-051	-01683	WELL NO.:_	M-1658
FARM NAME: _				
			DLIDATION CO.	AL COMPANY
COUNTY:	MAR	SHALL	DISTRICT:C	AMERON
QUADRANGLE:	CA	MERON W	/,PA 7.5'	
SURFACE OWN	ER: K	EVIN R. & P	KRISTA A. DI	URBIN
ROYALTY OWN				,
UTM GPS NORT	`HING:_	4,412,178	3 m	(1271.21)
UTM GPS EAST	ING:	538,708 m	GPS ELEVAT	
preparing a new wabove well. The Other following requirements of the following requirements of t	ell location ffice of Control of	on plat for a pluggin oil and Gas will not 183, Zone: 17 North an sea level (MSL) um – 3.05 meters		API number on the tes that do not meet
		Real-Time Differ	ential X	
Mapping Grade	e GPS	: Post Processed		RECEIVED Office of Oil and Gas
/ T -44	a i za	Real-Time Dit		
I the undersigned,	hereby co	ertify this data is co ormation required b	y map showing the warrect to the best of my y law and the regulation	knowledge and of one ristal entertion
18 X	Z	Profes	sional Surveyor	MAY 4, 2018
Signature			Title	Date

