



west virginia department of environmental protection

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

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

Wednesday, November 01, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for 1893
47-051-00571-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 1893
Farm Name: BURNS, IRENE, AGENT, ETAL
U.S. WELL NUMBER: 47-051-00571-00-00
Vertical / Plugging
Date Issued: 11/1/2017

Promoting a healthy environment.

11/03/2017

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

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

1. ★ (a) If active well: clean out to total depth OF 2738'. SET CLASS A CEMENT PLUG FROM 2738' TO 853'. WOC 4 HRS. ADD CEMENT IF NEEDED.
 WA (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
2. ★ (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. FROM 853' TO 295'.
3. Circulate through tubing or drill steel an expanding Class A cement plug from 100 feet above coal seam to surface. FROM 295' TO SURFACE.

A monument will be installed with API No. and stating "solid plug". PER WV STATE CODE.

JWM

5100571A

U. S. Department of Labor

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

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MAY 18 1989
MICHAEL R. PEELISH



MAY 15 1989

MSHA 101C
EXEMPTION

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:

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I. Procedures to be utilized when plugging gas or oil 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 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

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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:

- (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 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) 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 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

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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

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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, drilage 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.

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- (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.
- (l) 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

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adequate ventilation has been established around the wellbore.

- (n) After a well has been intersected and the working place determined safe, mining shall continue in by the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- (o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- (p) The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.
- (q) MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- (r) A copy of the petition shall be maintained at the mine and be available to the miners.
- (s) The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.
- (t) Within 60 days after this 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.

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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.



 Administrator
 for Coal Mine Safety and Health

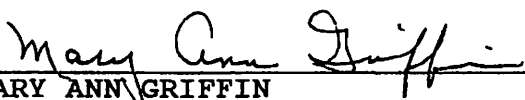
Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 15th day of May, 1989, to:

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

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Record of Well No. 1893 on Jacob Dowers Farm 107 Acres
 Cameron Field Cameron Marshall County W. Va. State
 Rig Commenced Dec 31 1915 Completed Jan 6 1916
 Drilling Commenced January 19 1916 Completed Feb. 11 1916
 Cost per foot \$1.10 Contractor Snyder Bros. Address Cameron, W. Va.
 Drillers' Names Ross Earnest, Chas. McCullough

BOILER			ENGINE			RIG		
No.	Name of Maker	H. P.	No.	Name of Maker	H. P.	Height	Name of Builder	

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	10 inch	10 inch	8 1/2 inch	8 1/2 inch	8 1/2 inch	8 1/2 inch	6 3/4 inch	6 inch	4 inch
15		192	1065	1023					

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	10 inch	10 inch	8 1/2 inch	8 1/2 inch	8 1/2 inch	8 1/2 inch	6 3/4 inch	6 inch	4 inch
15				1023					

OIL WELL				GAS WELL						
Alben Shot	Size of Torpedo	1st Day's Production	Tubing	Reds	Tanks	Size of Packer	Depth Set	Packed with	1st Minute's Pressure	Rock Pressure

FORMATION	Top	Bottom	Thickness	REMARKS
Bluff sand <i>White Hard</i>	375	395	20	<i>Feb. 20-1916 Well Packed in Big iron sand at 1991 3/4 ft with 1-6 7/8 x 4" O.N.S. Disc Wall Packer.</i>
Waynesburgh coal <i>Black</i>	395	400	5	
Mapletown "	550	555	5	
Pittsburgh "	645	653	8	
Little Dunkard sand <i>White Hard</i>	1050	1085	35	
Big " <i>White Hard</i>	1125	1185	60	<i>Feb. 12-1916 Well shot with 20 qt. in 50ft sand. Top of shell 2601 Bottom 2606 and also in bed of stray sand with 20-qt. Top of shell 2655 Bottom 2660 made before shooting 9/10 water in 6 7/8 casing after shooting 9/10 water in 6 7/8 casing made in 4" Tubing with spring legs. 25-60-70-90-105 For 16 minutes 150#.</i>
Gas sand <i>hard</i>	1420	1500	60	
Salt " <i>hard</i>	1500	1600	100	
Naxon " <i>hard</i>	1700	1725	25	
Big Linc	1755	1795	40	
Big Injun sand	1795	2035	240	
Thirty foot sand <i>hard</i>	2300	2455	25	
Fifty " "	2600	2616	16	
Gas in Fifty foot sand	2601	2604	3	
Gordon Stray sand	2654	2676	22	
Gas in " "	2655	2658		
" " " "	2673			
Gordon sand	2679	2689	10	
Total depth of well	2738			

25 lbs 20" - 1 1/2" 17 1/2" Gordon
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 APPROVED MSH-57
 11/03/2017



Select County: **(051) Marshall** Select datatypes: (Check All)

Enter Permit #: **00571**

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

Get Data Reset

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- [Pipeline-Plus[®] New](#)

WV Geological & Economic Survey:

Well: County = 51 Permit = 00571

Report Time: Wednesday, November 01, 2017 8:29:05 AM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
51	70020	51	571

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	LAT_DD	LON_DD	UTME	UTMN
4705100571	Marshall	571	Cameron	Cameron	39.850283	-80.550307	538469.4	4411237.1

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
4705100571	2/11/1916	Original Loc	Completed	Jacob Bowers	1893	Byran	Braddock		unknown	Manufacturers Light & Heat Co.			

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	G_BEF	G_AFT	O_BEF	O_AFT	I
4705100571	2/11/1916	1/12/1916	1220	Ground Level	Cameron	Fourth	Development Well	unclassified	Gas	unknown	Shot	2738		2738	0	0	0	0	0

Comment: 2/11/1916 Some info is from historical records in black notebook, and is not yet scanned into database.

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
4705100571	2/11/1916	Pay	Gas	Vertical	2601	Thirty-foot	2604	Thirty-foot	0	0	0	0	
4705100571	2/11/1916	Pay	Gas	Vertical	2655	Gordon	2658	Gordon	0	0	0	0	
4705100571	2/11/1916	Pay	Gas	Vertical			2673	Gordon	0	0	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
4705100571	Columbia Gas Transmission Corp.	1980	1,557	129	51	48	129	376	59	0	0	68	412	144	141
4705100571	Columbia Gas Transmission Corp.	1981	868	148	147	52	138	263	126	0	0	0	0	0	143
4705100571	Columbia Gas Transmission Corp.	1982	892	145	294	135	151	0	0	0	0	0	0	0	148
4705100571	Columbia Gas Transmission Corp.	1983	831	119	136	125	278	28	0	0	0	0	0	0	143
4705100571	Columbia Gas Transmission Corp.	1984	2,090	259	259	242	259	250	259	250	62	0	0	0	145
4705100571	Columbia Gas Transmission Corp.	1985	2,137	129	129	350	129	125	388	125	129	129	125	129	250
4705100571	Columbia Gas Transmission Corp.	1986	946	121	129	117	0	125	0	125	26	26	125	129	250
4705100571	Columbia Gas Transmission Corp.	1987	1,591	26	129	0	13	125	26	250	259	129	250	259	125
4705100571	Columbia Gas Transmission Corp.	1988	1,654	129	129	121	129	125	129	125	129	129	125	259	125
4705100571	Columbia Gas Transmission Corp.	1989	1,203	129	155	65	155	100	103	43	89	150	38	101	75
4705100571	Columbia Gas Transmission Corp.	1990	1,387	49	0	0	814	0	66	24	97	97	95	50	95
4705100571	Columbia Gas Transmission Corp.	1991	1,387	49	0	0	814	0	66	24	97	97	95	50	95
4705100571	Columbia Natural Resources, Inc. (CNR)	1992	468	32	78	72	77	15	15	15	15	91	29	15	14
4705100571	Columbia Natural Resources, Inc. (CNR)	1993	723	47	12	14	73	80	77	81	78	73	38	74	76
4705100571	Columbia Natural Resources, Inc. (CNR)	1994	1,022	75	65	139	98	191	61	61	60	58	61	60	93
4705100571	Columbia Natural Resources, Inc. (CNR)	1995	1,232	95	89	100	95	64	60	61	60	57	58	86	60
4705100571	Columbia Natural Resources, Inc. (CNR)	1996	899	103	95	100	95	64	60	61	60	57	58	86	60
4705100571	Columbia Natural Resources, Inc. (CNR)	1997	1,131	91	83	91	58	115	116	119	159	145	63	61	61
4705100571	Columbia Natural Resources, Inc. (CNR)	1998	990	87	79	88	87	94	91	94	93	92	87	112	115
4705100571	Columbia Natural Resources, Inc. (CNR)	1999	632	57	49	77	47	92	43	44	44	40	41	39	59
4705100571	Columbia Natural Resources, Inc. (CNR)	2000	187	62	59	66	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2001	2,719	0	0	0	168	166	197	248	433	362	351	311	483
4705100571	Tri-County Oil & Gas, Inc.	2002	3,762	324	345	281	297	271	263	242	246	375	343	292	483
4705100571	Tri-County Oil & Gas, Inc.	2003	944	64	128	58	128	62	64	62	64	64	93	64	93
4705100571	Tri-County Oil & Gas, Inc.	2004	2,773	235	257	227	259	211	227	238	192	255	255	174	243
4705100571	Tri-County Oil & Gas, Inc.	2005	2,207	243	161	137	179	190	179	175	145	174	218	198	208
4705100571	Leatherwood, Inc.	2006	2,057	195	184	187	151	146	176	189	154	169	219	142	165
4705100571	Leatherwood, Inc.	2007	521	0	0	0	0	0	0	0	0	0	174	174	173
4705100571	Leatherwood, Inc.	2008	2,106	176	176	176	176	176	176	176	176	176	176	176	170
4705100571	Leatherwood, Inc.	2009	2,048	171	171	171	171	171	171	171	171	171	171	171	167
4705100571	Leatherwood, Inc.	2010	2,013	167	167	167	167	167	167	167	167	167	167	167	176
4705100571	Leatherwood, Inc.	2011	3,540	300	335	300	435	300	435	450	150	145	300	290	300
4705100571	Leatherwood, Inc.	2012	1,681	103	97	52	150	155	100	516	0	150	258	100	0
4705100571	Leatherwood, Inc.	2013	334	0	0	0	0	0	33	53	33	58	71	86	
4705100571	Leatherwood, Inc.	2014	1,915	20	0	0	0	0	0	0	0	0	27	1,085	783
4705100571	Leatherwood, Inc.	2015	244	38	35	44	22	19	22	11	4	7	9	11	22
4705100571	Leatherwood, Inc.	2016	882	93	151	131	118	3	69	75	66	7	31	50	88

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
4705100571	Columbia Gas Transmission Corp.	1980	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1981	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1983	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1984	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1987	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Gas Transmission Corp.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Columbia Natural Resources, Inc. (CNR)	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Tri-County Oil & Gas, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2015	0	0	0	0									

4705100571	Leatherwood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100571	Leatherwood, Inc.	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
4705100571	Leatherwood, Inc.	2016	0												

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4705100571	Original Loc	Waynesburg Ss	Well Record	375	Reasonable	20	Reasonable	1220	Ground Level
4705100571	Original Loc	Waynesburg coal	Well Record	395	Reasonable	5	Reasonable	1220	Ground Level
4705100571	Original Loc	Sewickley coal	Well Record	550	Reasonable	5	Reasonable	1220	Ground Level
4705100571	Original Loc	Pittsburgh coal	Well Record	645	Reasonable	8	Reasonable	1220	Ground Level
4705100571	Original Loc	Bufflo Sa/1st Cow Rn	Well Record	1050	Reasonable	35	Reasonable	1220	Ground Level
4705100571	Original Loc	Mahonig Sa/Big Dunk	Well Record	1125	Reasonable	60	Reasonable	1220	Ground Level
4705100571	Original Loc	1st Salt Sand	Well Record	1440	Reasonable	60	Reasonable	1220	Ground Level
4705100571	Original Loc	2nd Salt Sand	Well Record	1500	Reasonable	100	Reasonable	1220	Ground Level
4705100571	Original Loc	Maxton	Well Record	1705	Reasonable	20	Reasonable	1220	Ground Level
4705100571	Original Loc	Big Lime	Well Record	1755	Reasonable	40	Reasonable	1220	Ground Level
4705100571	Original Loc	Big Injns (undiff)	Well Record	1795	Reasonable	240	Reasonable	1220	Ground Level
4705100571	Original Loc	Berea Ss	Well Record	2390	Reasonable	61	Reasonable	1220	Ground Level
4705100571	Original Loc	Thirty-foot	Well Record	2600	Reasonable	16	Reasonable	1220	Ground Level
4705100571	Original Loc	Gordon	Well Record	2654	Reasonable	22	Reasonable	1220	Ground Level
4705100571	Original Loc	Fourth	Well Record	2879	Reasonable	10	Reasonable	1220	Ground Level

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

SI 00571 P

WW-4A
Revised 6-07

1) Date: SEPTEMBER 24, 2017
2) Operator's Well Number M-1564

3) API Well No.: 47 - 051 - 00571

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>LARRY D. HULL</u>	Name <u>CONSOLIDATION COAL CO.</u>
Address <u>2261 BURLEY HILL RD.</u>	Address <u>1 BRIDGE STREET</u>
<u>CAMERON, WV 26033</u>	<u>MONONGAH, WV 26554</u>
(b) Name <u>TIMOTHY T. WRIGHT</u>	(b) Coal Owner(s) with Declaration
Address <u>2039 BURLEY HILL RD.</u>	Name _____
<u>CAMERON, WV 26033</u>	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>JAMES NICHOLSON</u>	(c) Coal Lessee with Declaration
Address <u>P.O. BOX 44</u>	Name _____
<u>MOUNDSVILLE, WV 26041</u>	Address _____
Telephone <u>(304) 552-3874</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse 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.

RECEIVED
Office of Oil and Gas
OCT 05 2017

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



WV Department of Environmental Protection
OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Joseph E. Williams
1512 Fifth Street
Moundsville, WV 26041
My Commission Expires June 5, 2024

Subscribed and sworn before me this 3rd day of October, 2017
Joseph E. Williams Notary Public

My Commission Expires June 5, 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 depprivacyofficer@wv.gov.

11/03/2017

5100571A

WW-9
(5/16)

API Number 47 - 051 - 00571
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
Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____
Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

- Proposed Disposal Method For Treated Pit Wastes:
- Land Application (if selected provide a completed form WW-9-GPP)
 - Underground Injection (UIC Permit Number _____)
 - Reuse (at API Number _____)
 - Off Site Disposal (Supply form WW-9 for disposal location)
 - Other (Explain Tanks, see attached letter

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement
-If oil based, what type? Synthetic, petroleum, etc.

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

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

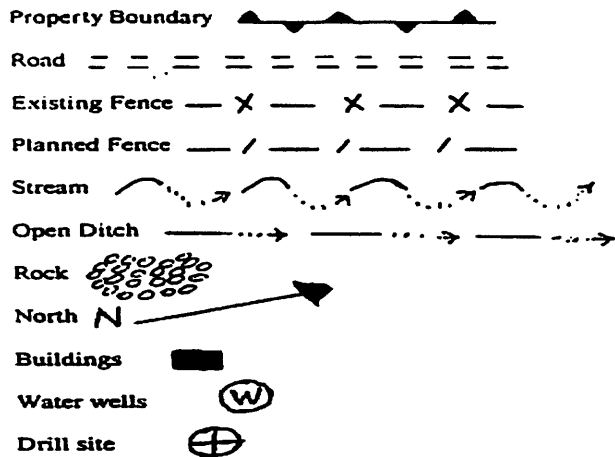
Company Official Signature *Mason Smith*
Company Official (Typed Name) Mason Smith
Company Official Title Project Engineer

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OCT 05 2017
WV Department of
Environmental Protection

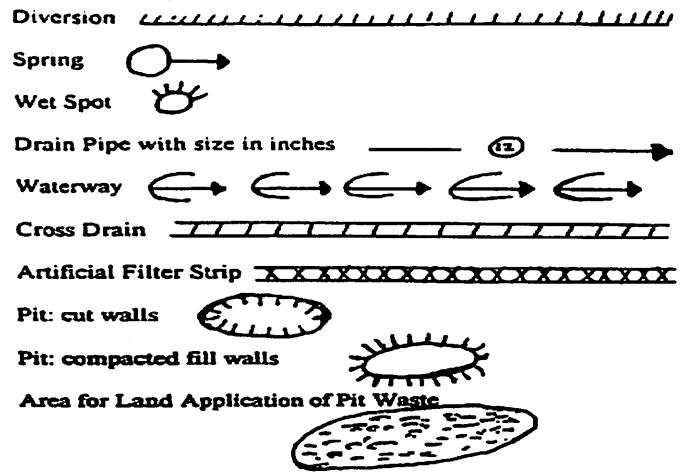
Subscribed and sworn before me this 3rd day of October

Joseph E Williams
My commission expires June 5, 2024





LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Area I

Seed Type	lbs/acre
Seed mix in accordance with WVDEP oil and gas Erosion and Sediment Control Field Manual	

Area II

Seed Type	lbs/acre
Seed mix in accordance with WVDEP oil and gas Erosion and Sediment Control Field Manual	

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

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Environmental Protection

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

**MURRAY AMERICAN ENERGY, INC.
& CONSOLIDATION COAL COMPANY**

**MURRAY AMERICAN ENERGY,
INC. & CONSOLIDATION COAL
COMPANY**

46226 National Road
St. Clairsville, OH 43950

phone: 304.843.3565

fax: 304.843.3546

e-mail: MasonSmith@coalsource.com

MASON SMITH

Project Engineer

February 20, 2017

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

To Whom It May Concern,

As per the Division of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company submits the following procedures utilizing pit waste.

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

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP facilities number U-0033-83, O-78-83, U-140-83, or U-1011-93.

Sincerely,



Mason Smith
Project Engineer

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11/03/2017

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

Operator Name: CONSOLIDATION COAL COMPANY

Watershed (HUC 10): NORTH FORK OF GRAVE CREEK Quad: CAMERON, WV,PA 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.

[Empty response box for question 1]

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

[Empty response box for question 2]

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

[Empty response box for question 3]

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

[Empty response box for question 4]

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Environmental Protection

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

SI00571P

WW-9- GPP
Rev. 5/16

N/A

Page _____ of _____
API Number 47 - 051 - 00571
Operator's Well No. _____

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: _____

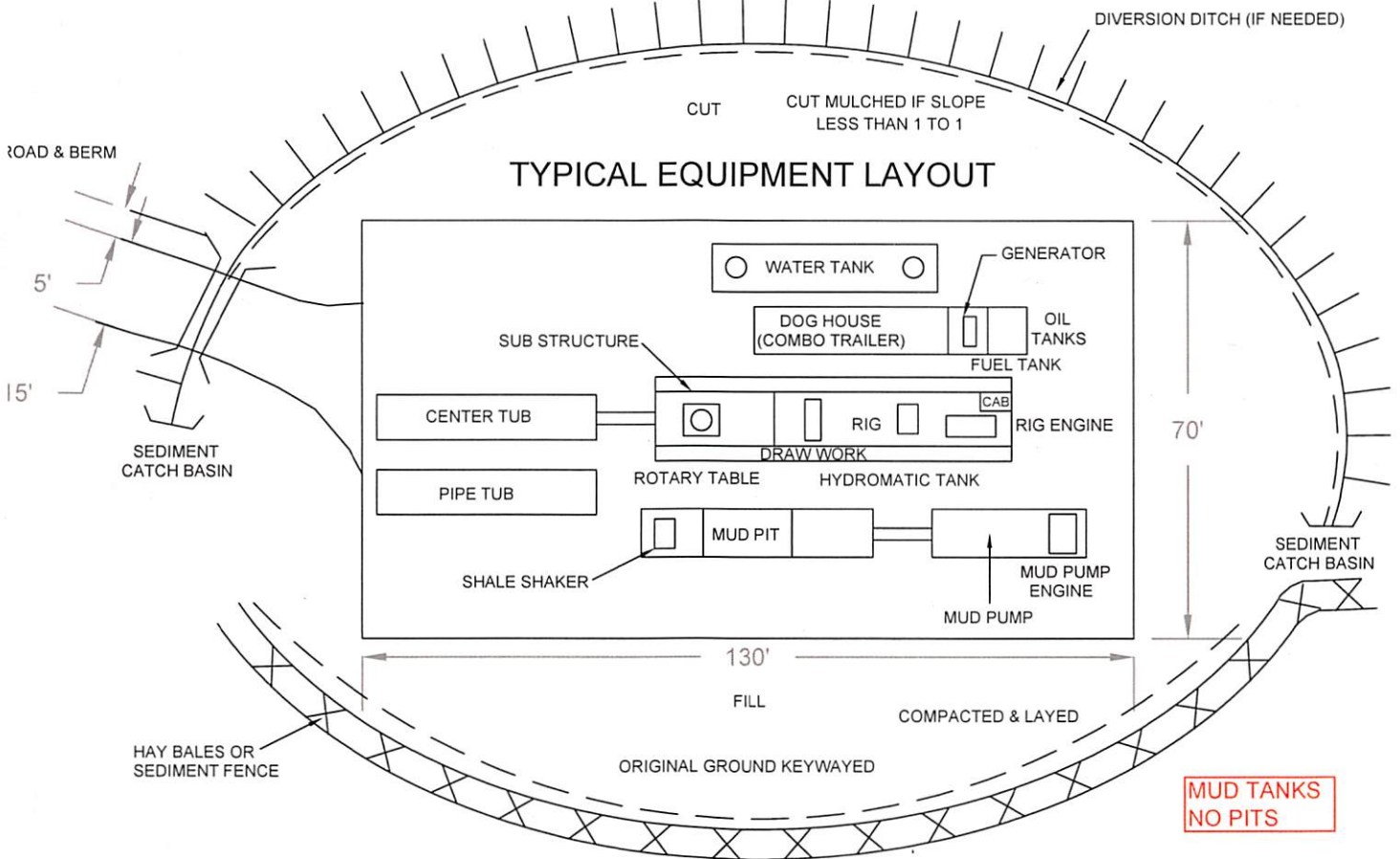
Date: _____

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11/03/2017

CONSOLIDATION COAL COMPANY
NORTHERN WEST VIRGINIA
OPERATIONS

TYPICAL DRAWING OF
WELL PLUGGING
SITE PLAN



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WV Department of
Environmental Protection

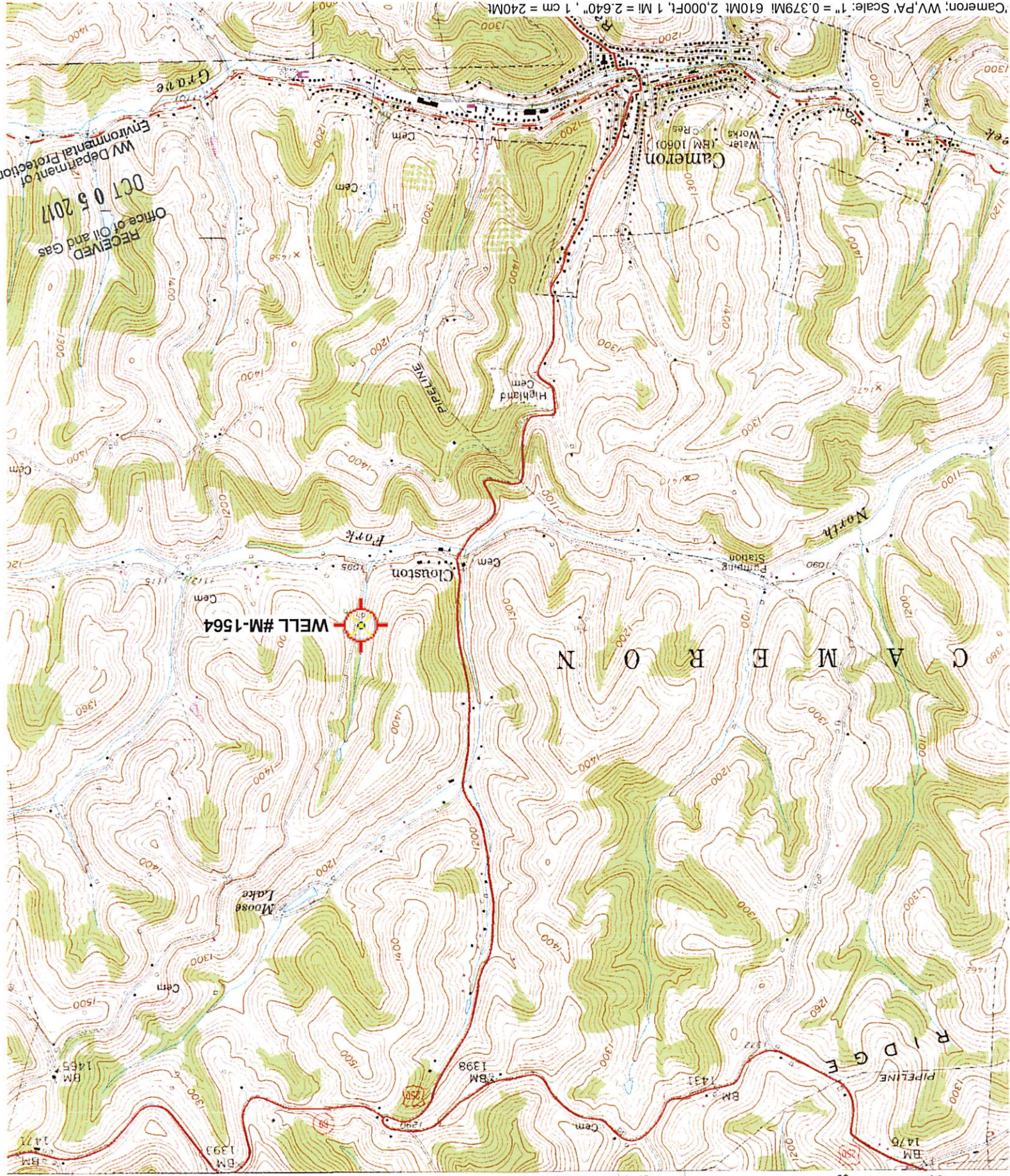
STATE OF WEST VIRGINIA

REPRESENTED BY THE

STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
AND OTHER STATE AGENCIES

11/03/2017

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MOUNDSVILLE 13 MI. PLEASANT VALLEY 3.8 MI. 35' 36' 37' 38' 39' 32'30" 32'30" 1710 000 F

STATE OF WEST VIRGINIA GEOLOGICAL SURVEY AND OTHER STATE AGENCIES

REPRESENTED BY THE STATE OF WEST VIRGINIA

11/03/2017

WW-7
8-30-06



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

API: 47-051-00571 WELL NO.: M-1564

FARM NAME: JACOB BOWERS

RESPONSIBLE PARTY NAME: CONSOLIDATION COAL COMPANY

COUNTY: MARSHALL DISTRICT: CAMERON

QUADRANGLE: CAMERON WV, PA 7.5'

SURFACE OWNER: LARRY D. HULL

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,411,279 m

UTM GPS EASTING: 538,497 m GPS ELEVATION: 342 m (122')

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:

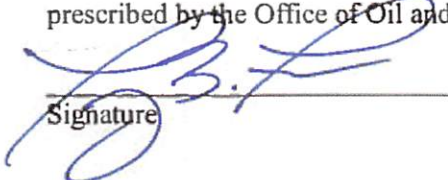
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

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

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

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

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


Signature

Professional Surveyor
Title

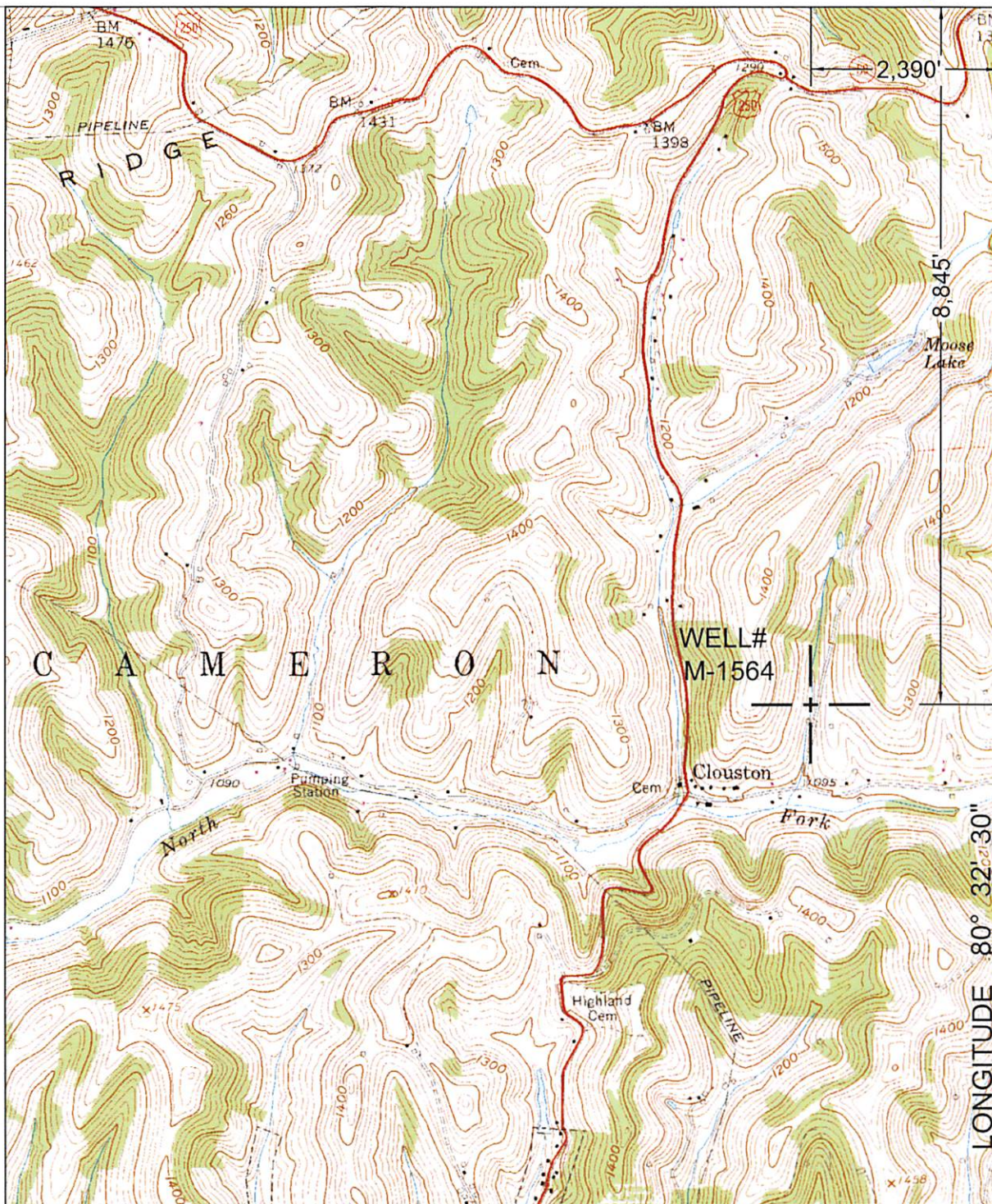
SEPTEMBER 24, 2017
Date

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WV Department of
Environmental Protection

5100571P

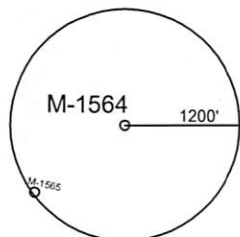
FORM WW 6

LATITUDE
39° 52' 30"



NORTH

SURROUNDING WELLS
WITHIN 1200' RADIUS

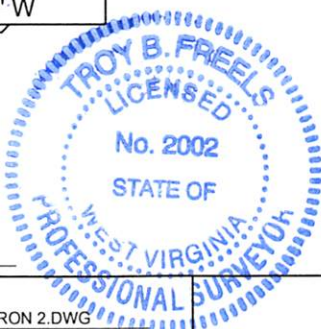


LONGITUDE 80° 32' 30"

UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,411,279 METERS	39° 51' 02.08" N
EASTING 538,497 METERS	80° 33' 00.66" W

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2002



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

DATE SEPTEMBER 24, 20 17

OPERATORS WELL NO. M-1564

API WELL NO. 47 - 51 - 00571 P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500 FILE NO.: CAMERON 2.DWG

PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S. SCALE: 1"=2000'

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



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

LOCATION: ELEVATION: 1123.29' WATERSHED: NORTH FORK OF GRAVE CREEK

DISTRICT: CAMERON COUNTY: MARSHALL QUADRANGLE: CAMERON, WV-PA 7.5'

SURFACE OWNER: LARRY D. HULL ACREAGE: 2.71± ACRES

ROYALTY OWNER: LEASE ACREAGE: LEASE NO.: 11/03/2017

DRILL: ___ CONVERT: ___ DRILL DEEPER: ___ REDRILL: ___ FRACTURE OR STIMULATE: ___ PLUG OFF OLD: ___

FORMATION: ___ PERFORATE NEW FORMATION: ___ PLUG AND ABANDON: CLEAN OUT AND REPLUG: ___

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

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH

ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041 ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041

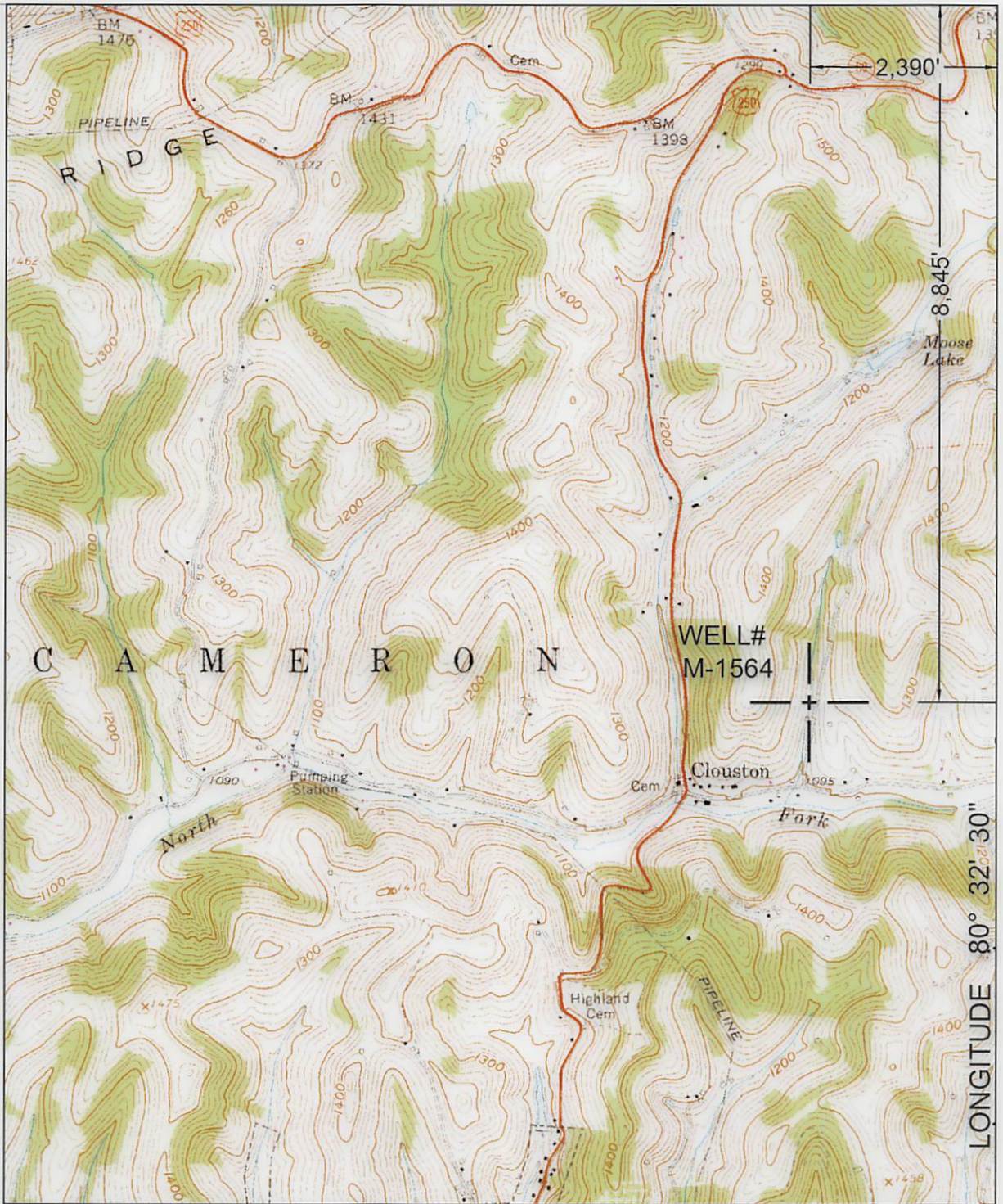
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WV Department of Environmental Protection

COUNTY NAME PERMIT

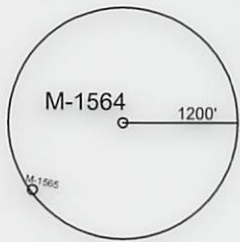
FORM WW 6

LATITUDE
39° 52' 30"



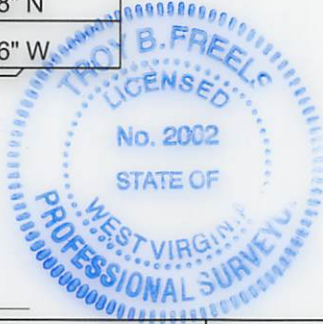
NORTH

SURROUNDING WELLS
WITHIN 1200' RADIUS



UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,411,279 METERS	39° 51' 02.08" N
EASTING 538,497 METERS	80° 33' 00.66" W

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
P.S.
2002



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE SEPTEMBER 24, 20 17
OPERATORS WELL NO. M-1564
API WELL NO. 47 - 51 - 00571P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 2500 FILE NO.: CAMERON 2.DWG
PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S. SCALE: 1"=2000'

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



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

LOCATION: ELEVATION: 1123.29' WATERSHED: NORTH FORK OF GRAVE CREEK
DISTRICT: CAMERON COUNTY: MARSHALL QUADRANGLE: CAMERON, WV-PA 7.5'
SURFACE OWNER: LARRY D. HULL ACREAGE: 2.71± ACRES
ROYALTY OWNER: _____ LEASE ACREAGE: _____
PROPOSED WORK: _____ LEASE NO.: 11/03/2017

DRILL: _____ CONVERT: _____ DRILL DEEPER: _____ REDRILL: _____ FRACTURE OR STIMULATE: _____ PLUG OFF OLD: _____
FORMATION: _____ PERFORATE NEW FORMATION: _____ PLUG AND ABANDON: CLEAN OUT AND REPLUG: _____ OTHER: _____
PHYSICAL CHANGE IN WELL (SPECIFY): _____ TARGET FORMATION: NONE
ESTIMATED DEPTH: _____

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH
ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041 ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041

COUNTY NAME
PERMIT