



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

February 18, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5100422, issued to CONSOLIDATION COAL COMPANY, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief



Operator's Well No: 4624
Farm Name: RIGGLE, RAY
API Well Number: 47-5100422
Permit Type: Plugging
Date Issued: 02/18/2016

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.

02/19/2016

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

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

5.) LOCATION: Elevation: 1195.95' Watershed: Wheeling Creek
District: Webster County: Marshall Quadrangle: Majorsville, WV-PA 7.5'

6.) WELL OPERATOR Consolidation Coal Company
Address 6126 Energy Road
Moundsville, WV 26041

7.) DESIGNATED AGENT Ronnie Harsh
Address 1 Bridge Street
Monongah, WV 26554

8.) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Eric Blend
Address PO BOX 2115
Wheeling, WV 26003

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

SEE ATTACHED MSHA MODIFICATION ORDER: SHOEMAKER MINE
STATE MINE PERMITS: U-1025-91 REVISION #27
U-1025-91 REVISION #31

Received

OUR RECORDS INDICATE THIS WELL WAS PARTIALLY PLUGGED FROM
3273' TO 1900'. IN LIEU OF CLEANING OUT OR REGRILLING
THIS PLUG WE WANT A CAST IRON BRIDGE PLUG (MECHANICAL PLUG)
PLACED AT \approx 1700', INSIDE CASING. PLACE A 200' CLASS A CEMENT
PLUG ON TOP OF CIBP TO FILL WITH CLASS A CEMENT TO 200' BELOW COAL.
 \approx 870'.

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

Work order approved by inspector _____ Date _____

RECEIVED
 U. S. Department of Labor
 OCT 17 1990
 W. J. SCHELLER

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



OCT 17 1990.

In the matter of
 Consolidation Coal Company
 Shoemaker Mine
 I.D. No. 46-01436
 Ireland Mine
 I.D. No. 46-01438

Petition for Modification

Docket No. M-90-066-C

PROPOSED DECISION AND ORDER

On April 24, 1990, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Shoemaker Mine and Ireland Mine, both 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, comments, 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, Consolidation Coal Company is granted a modification of the application of 30 CFR 75.1700 to its Shoemaker Mine and Ireland 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 Consolidation Coal Company's Petition for Modification of the application of 30 CFR 75.1700 in the Shoemaker Mine and Ireland Mine is hereby:

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 Office of Oil and Gas

FEB 17 2016

WV Department of
 Environmental Protection
 02/19/2016

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) 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 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:
- (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 expanding 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) 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 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 mine 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.

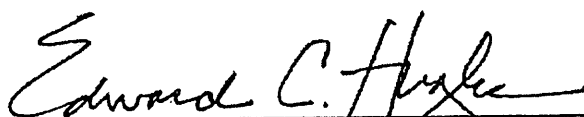
- (l) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall 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 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.

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.


Edward C. Hugler
Deputy Administrator
for Coal Mine Safety and Health

Certificate of Service


I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 17th day of October, 1990, to:

Walter J. Scheller III, Esq.
Consolidation Coal Company
Consol Plaza
Pittsburgh, Pennsylvania 15241

Ms. Linda Raisovich-Parsons
Special Assistant
United Mine Workers of America
900 Fifteenth Street, NW.

Robert Stropp, Esq.
United Mine Workers of America
900 Fifteenth Street, NW.
Washington, DC 20005

Mr. David Shreve
International Safety
Representative
District 6
United Mine Workers of America
56000 Dilles Bottom
Shadyside, Ohio 43947



MARY ANN GRIFFIN
Mine Safety Clerk

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 one of the following two methods to plug all future wells.

4½ VENT PIPE 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 seam.
- (c) Run 4½ casing from surface to minimum 200 feet below lowest minable seam and circulate 50/50 poz mix cement followed by expanding cement to surface. The expanding cement shall extend from minimum 200 feet below minable coal seam to a point 100 feet above.

The 4½ will remain open from surface to a minimum of 80 feet below that minable coal seam.

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 an abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Circulate through tubing or drill steel an expanding 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 50/50 poz mix from 100 feet above coal seam to surface.

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

A4/ENGR/EXHIBIT1.REQ

Received

JAN 20 2016

Office of Oil and Gas
WV Dept. of Environmental Protection

02/19/2016

WELL LOG SUMMARY

LOCATION	COMPANY The Manufacturers Light and Heat Company			DIV. 9	FIELD Birmingham	WELL NO. 1-100							
	FARM Ray Biddle	ACRES 99	LEASE NO. 15455	DISTRICT - SUBDIVISION Hobart	COUNTY Marshall	STATE W. Va.							
	TOPO. MAP General Quadrangle _____ Ft. _____ of _____ and _____ Ft. _____ of _____												
Redrilled	TOP HOLE CONTRACTOR Henry J. Smith	Redrilled Drilled from 0 Ft. to 1575 Ft.											
	CONTRACTOR ADDRESS Hobart, W. Va.	Type of Rig Cable Tool											
Partially Flugged	DRILLING CONTRACTOR Henry J. Smith	Partially Flugged Drilled from 1575 Ft. to 1900 Ft.											
	CONTRACTOR ADDRESS Hobart, W. Va.	Type of Rig Drilling Machine											
FIRST RIG COMMENCED (DATE) Redrilling 7/15/61		REWORK COMPLETED (DATE) Nov. 27, 1961		COMPLETED TOTAL DEPTH 1900 ft.	DATE PURCHASED - - - -	FOR. WELL NO. 1-100							
HOLE SIZE	BIT GAUGE (INCHES)	18"	18"	18"	8"	6"							
	FROM-TO (FEET)	0-60'	60-617'	617-1187'	1187-1775'	1775-1900'							
CASING AND TUBING	SIZE (O.D.)	19-3/8"	18-7/8"	8-7/8"	8"								
	WEIGHT/FOOT	120	12.75	20	20								
(All Measurements less threads)	STEEL GRADE	A-10	A-10	A-10	A-10								
	COUPLING TYPE	Short	Short	Short	Short								
	SETTING DEPTH	60'	617'-4"	1186'-10"	1775'-0"								
	LEFT IN HOLE	0'	617'-4"	1186'-10"	1775'-0"								
CEMENT	NO. OF SACKS	70	200	200	200								
	TYPE	IS	IS	IS	IS								
PACKER	WEIGHT #/GAL.	14.9	14.5	14.5	14.5								
	MANUFACTURER												
	TYPE												
WELL STIMULATION	TREATMENT	TYPE *	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW MCF/DAY	PERFORMED BY	DATE						
				From to	Before After								
				From to	Before After								
				From to	Before After								
OPEN FLOW TEST	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING-IN.	OPEN FLOW M.C.F./DAY	HRS. FLOW					
	11 22 61	Big Injan	From to				NO OPEN FLOW						
			From to										
			From to										
WELLHEAD PRESSURE TESTS	DATE TAKEN	FORMATION	MINUTE PRESSURE - PSIG					WELLHEAD PRESSURE - PSIG					
			1	3	5	10	20	30	24 HR.	48 HR.	72 HR.	MAX. PRESS.	TIME
MISC.	DEPTH MEASUREMENT TAKEN FROM:			DIST. TO GROUND			ELEVATION						
	<input checked="" type="checkbox"/> Derrick Floor	<input type="checkbox"/> Ground	Other (Specify) <u>original ground level</u>	= = = ft.			1193.00 G.L.						
REMARKS	LOGGED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						LOGGED BY (COMPANY) Schlumberger						
	DATE LOGGED 11 3 61												
* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable													
Well makes a little water													
W.O. 2111-1-100-7													

Attach additional sheets and forward to Production Dept. Pittsburgh General Office

Verified by David C. Rumbert
DIVISION ENGINEER

Approved by ORIGINAL SIGNED BY R. S. BAUMAN
DIVISION SUPERINTENDENT

DIV. 5	FIELD Majorville	FARM Ray Riggle	COUNTY Marshall	WELL NO. 1-1621
ORIGIN OF FORMATION DEPTHS <input type="checkbox"/> Driller's Log <input checked="" type="checkbox"/> Service Company Log <input type="checkbox"/> Combination				

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pittsburgh Coal	64	670	6	
Gas Sand	1305	1358	53	
1st. Salt Sand	1454	1466	12	
2nd. Salt Sand	1695	1718	23	
Big Injun	1742	1976	234	Schlesinger's Grant-3000 Survey
Upper 30' (Barren)	2323	2334	11	shows permeability from 1900-1926'
50' Sand	2327	2332	5	No measurable open flow.
Gordon Stray Sand	2650	2646	16	Dry hole- Obstruction
Gordon Sand	2662	2701	19	
4th Sand	2727	2736	9	
5th Sand	2800	2824	24	

Redrilled to a depth
of 3275' and partially
plugged as follows:

PARTIAL PLUGGING

Aquagel	2850	3275		2850' - 3275' AQUAGEL
Cement	2600	2850		2600' - 2850' CEMENT
Aquagel	2550	2600		2550' - 2600' AQUAGEL
Cement	2300	2550		2300' - 2550' CEMENT
Aquagel	2000	2300		2000' - 2300' AQUAGEL
Cement	1900	2000		1900' - 2000' CEMENT
Total Depth		1900		

Original Well Information F-11550
Completed 1904-1905
Dry Hole
Not plugged - Reported drowned well.

FORM OO-8

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL Partially Plugged

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

Ray Jones COAL OPERATOR OR OWNER
2024 Grand Building
Pittsburgh 17, Pennsylvania
 ADDRESS

The Westchester Light and Heat Company NAME OF WELL OPERATOR
600 Union Street Building
Pittsburgh 17, Pennsylvania
 COMPLETE ADDRESS

Ray Jones COAL OPERATOR OR OWNER
470 First St. Room 200
Washington Street Station, Washington, D.C.
 ADDRESS

Washington St. WELL AND LOCATION
1943 District
Washington County

LEASE OR PROPERTY OWNER
 ADDRESS

Well No. 1414
Ray Jones Farm

STATE INSPECTOR SUPERVISING PLUGGING Ray Jones

AFFIDAVIT

STATE OF WEST VIRGINIA, }
 County of Marshall } SS:
Ray Jones, Sr. & Co. and Westchester Light Service, Inc.
 being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by The Westchester Light and Heat Co. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 20th day of November, 1943, and that the well was plugged and filled in the following manner: Partially Plugged

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CGO PULLED	CGO LEFT IN
Depth - 1075'	Asphalt 1075-1077			1075-1077
1077-1078-1079	Gravel 1077-1078			1077-1078
1079-1080-1081	Gravel 1079-1080			1079-1080
1081-1082-1083	Gravel 1081-1082			1081-1082
1083-1084-1085	Gravel 1083-1084			1083-1084
1085-1086-1087	Gravel 1085-1086			1085-1086
1087-1088-1089	Gravel 1087-1088			1087-1088
1089-1090-1091	Gravel 1089-1090			1089-1090
1091-1092-1093	Gravel 1091-1092			1091-1092
1093-1094-1095	Gravel 1093-1094			1093-1094
1095-1096-1097	Gravel 1095-1096			1095-1096
1097-1098-1099	Gravel 1097-1098			1097-1098
1099-1100-1101	Gravel 1099-1100			1099-1100
1101-1102-1103	Gravel 1101-1102			1101-1102
1103-1104-1105	Gravel 1103-1104			1103-1104
1105-1106-1107	Gravel 1105-1106			1105-1106
1107-1108-1109	Gravel 1107-1108			1107-1108
1109-1110-1111	Gravel 1109-1110			1109-1110
1111-1112-1113	Gravel 1111-1112			1111-1112
1113-1114-1115	Gravel 1113-1114			1113-1114
1115-1116-1117	Gravel 1115-1116			1115-1116
1117-1118-1119	Gravel 1117-1118			1117-1118
1119-1120-1121	Gravel 1119-1120			1119-1120
1121-1122-1123	Gravel 1121-1122			1121-1122
1123-1124-1125	Gravel 1123-1124			1123-1124
1125-1126-1127	Gravel 1125-1126			1125-1126
1127-1128-1129	Gravel 1127-1128			1127-1128
1129-1130-1131	Gravel 1129-1130			1129-1130
1131-1132-1133	Gravel 1131-1132			1131-1132
1133-1134-1135	Gravel 1133-1134			1133-1134
1135-1136-1137	Gravel 1135-1136			1135-1136
1137-1138-1139	Gravel 1137-1138			1137-1138
1139-1140-1141	Gravel 1139-1140			1139-1140
1141-1142-1143	Gravel 1141-1142			1141-1142
1143-1144-1145	Gravel 1143-1144			1143-1144
1145-1146-1147	Gravel 1145-1146			1145-1146
1147-1148-1149	Gravel 1147-1148			1147-1148
1149-1150-1151	Gravel 1149-1150			1149-1150
1151-1152-1153	Gravel 1151-1152			1151-1152
1153-1154-1155	Gravel 1153-1154			1153-1154
1155-1156-1157	Gravel 1155-1156			1155-1156
1157-1158-1159	Gravel 1157-1158			1157-1158
1159-1160-1161	Gravel 1159-1160			1159-1160
1161-1162-1163	Gravel 1161-1162			1161-1162
1163-1164-1165	Gravel 1163-1164			1163-1164
1165-1166-1167	Gravel 1165-1166			1165-1166
1167-1168-1169	Gravel 1167-1168			1167-1168
1169-1170-1171	Gravel 1169-1170			1169-1170
1171-1172-1173	Gravel 1171-1172			1171-1172
1173-1174-1175	Gravel 1173-1174			1173-1174
1175-1176-1177	Gravel 1175-1176			1175-1176
1177-1178-1179	Gravel 1177-1178			1177-1178
1179-1180-1181	Gravel 1179-1180			1179-1180
1181-1182-1183	Gravel 1181-1182			1181-1182
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1187-1188-1189	Gravel 1187-1188			1187-1188
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1191-1192-1193	Gravel 1191-1192			1191-1192
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1197-1198-1199	Gravel 1197-1198			1197-1198
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1323-1324-1325	Gravel 1323-1324			1323-1324
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1333-1334-1335	Gravel 1333-1334			1333-1334
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1339-1340-1341	Gravel 1339-1340			1339-1340
1341-1342-1343	Gravel 1341-1342			1341-1342
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1345-1346-1347	Gravel 1345-1346			1345-1346
1347-1348-1349	Gravel 1347-1348			1347-1348
1349-1350-1351	Gravel 1349-1350			1349-1350
1351-1352-1353	Gravel 1351-1352			1351-1352
1353-1354-1355	Gravel 1353-1354			1353-1354
1355-1356-1357	Gravel 1355-1356			1355-1356
1357-1358-1359	Gravel 1357-1358			1357-1358
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1373-1374-1375	Gravel 1373-1374			1373-1374
1375-1376-1377	Gravel 1375-1376			1375-1376
1377-1378-1379	Gravel 1377-1378			1377-1378
1379-1380-1381	Gravel 1379-1380			1379-1380
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1395-1396-1397	Gravel 1395-1396			1395-1396
1397-1398-1399	Gravel 1397-1398			1397-1398
1399-1400-1401	Gravel 1399-1400			

NOTICE OF WELL STATUS CHANGE

COMPANY The Manufacturers Light and Heat Company		FIELD Marionville	DIV. 5	FOREIGN WELL NO. (IF ANY) 2-1090	COMPANY WELL NO. 1-104
FARM NAME Ray Bogle	DISTRICT Wablar	COUNTY Marshall	STATE W. Va.	LEASE NO. 10-55	ACRES 60
DATE COMP. 11/22/61		LAST ACTIVE WELL ON FARM <input type="checkbox"/> YES <input type="checkbox"/> NO			
(THIS BLOCK FOR GENERAL OFFICE USE ONLY) <input type="checkbox"/> SURRENDER LEASE <input type="checkbox"/> RENEW LEASE <input type="checkbox"/> OTHER					

STATUS PRIOR TO THIS REPORT	<input type="checkbox"/> DRILLING WELL	<input type="checkbox"/> Production
	<input type="checkbox"/> ACTIVE WELL	<input type="checkbox"/> Storage
	<input checked="" type="checkbox"/> ABANDONED WELL	<input type="checkbox"/> Production
		<input type="checkbox"/> Storage
WELL STATUS CHANGE OR WORK PERFORMED	<input checked="" type="checkbox"/> COMPLETED	<input type="checkbox"/> Gas
		<input checked="" type="checkbox"/> Dry
	<input checked="" type="checkbox"/> REDRILLED FOR STORAGE	<input checked="" type="checkbox"/> Retained
		<input type="checkbox"/> Abandoned
	<input type="checkbox"/> RECONDITIONED	<input type="checkbox"/> Retained
		<input type="checkbox"/> Abandoned
	<input type="checkbox"/> RECONDITIONED & TRANSF. TO STORAGE	
	<input type="checkbox"/> TRANSFERRED TO	<input type="checkbox"/> Production
		<input type="checkbox"/> Storage
	<input type="checkbox"/> PURCHASED FOR	<input type="checkbox"/> Production
		<input type="checkbox"/> Storage
	<input type="checkbox"/> DRILLED DEEPER	
	<input type="checkbox"/> PLUGGED AND ABANDONED	
	<input type="checkbox"/> SOLD	

Remarks **Dry hole - observation well**

PLUGGED BACK NO YES

If Yes, to depth of **2000** foot **into rig in situ** sand

WELL TREATMENT No Yes If Yes, Type of Treatment _____

COMPLETION DATA (If applicable)	OPEN (If applicable)	BEFORE TREATMENT	TYPE OF GAUGE	<input type="checkbox"/> Orifice Well Tester	<input type="checkbox"/> Pitot Tube	<input type="checkbox"/> Other (Specify) _____
		FLOW	GAUGE READING	<input type="checkbox"/> Mercury	_____ inches <input type="checkbox"/> Water or _____ psig through _____ inch opening after blowing _____ hours	
		TEST READING	TYPE OF GAUGE	<input type="checkbox"/> Orifice Well Tester	<input type="checkbox"/> Pitot Tube	<input type="checkbox"/> Other (Specify) _____
			GAUGE READING	<input type="checkbox"/> Mercury	_____ inches <input type="checkbox"/> Water or _____ psig through _____ inch opening after blowing _____ hours	
			FLOW	_____ cubic feet per day		ROCK PRESSURE _____ psig in _____ hours
				No open flow		_____ psig in _____ hours

AUTHORIZATION FOR WORK PERFORMED

Well Order Number _____ Budget No. _____

Work Order Number **W.O. 810-1-214-5**

Abandonment Order Number _____

WORK PERFORMED BY

MACHINE NUMBER OR CONTRACTOR'S NAME

Henry J. Smith

For General Office Use			
DEPARTMENT	SECTION	NOTED BY	DATE
PRODUCTION	Geology		
	Storage		
	Clerical		
	Map		
TREASURY	Land Accounting		
	Plant Accounting		
CIVIL ENGINEERING			

Compiled By **D. Bunker & Co. Inc.** Date **12/21/61**

Approved By **R. S. BARNUM** Date **12/27/61**

DIVISION SUPERINTENDENT



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Cameron
Permit No. (MARS-422-Partial Plug)

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company The Manufacturers Lt. and Ht. Co.
Address 800 Union Trust Building, Pittsburgh 19, Pa.
Farm Ray Riggle Acres 90
Location (waters) _____
Well No. L-4624 Elev. 1193.60G.L.
District Webster County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced July 18, 1961
Drilling completed November 22, 1961
Date Shot 11/22/61 ~~rock~~ Big Injun
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume No Open Flow - Dry Hole _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
13 3/8"	62'	62'	
10 3/4"	611'4"	611'4"	Size of
8 x 5/8"	1186'10"	1186'10"	
Case 7"	1778'8"	1778'8"	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 664 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
✓ Pittsburgh Coal		6	664	670			
✓ Gas Sand		53	1305	1358			
✓ 1st Salt Sand		32	1434	1466			
✓ 3rd Salt Sand		83	1635	1718			
✓ Big Injun		234	1742	1976			
Upper 30 (Berea)		13	2323	2336			
✓ 50' Sand		5	2527	2532			
✓ Gordon Stray Sand		16	2630	2646			
✓ Gordon Sand		19	2682	2701			
✓ 4th Sand		3	2727	2730			
✓ 5th Sand		24	2800	2824			
Redrilled to a depth of 3273' and partially plugged as follows:							
Aquagel			2850	3273			
Cement			2600	2850			
Aquagel			2550	2600			
Cement			2300	2550			
Aquagel		200	2000	2300			
Cement			1900	2000			
Total Depth				1900			
Original Well Information			F-14590				
Completed 1904-1905							
Dry Hole							
Not plugged - Reported drowned out.							

RECEIVED
Office of Oil and Gas

FEB 08 2016

WV Department of
Environmental Protection

1) Date: January 11, 2016
2) Operator's Well No. SGW-87
3) API Well No. 47-51-00422
State County Permit

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

4) SURFACE OWNER(S) TO BE SERVED

(a) Name Mable L Riggle ✓
Address 1284 Dry Ridge Road
Cameron WV 26033

(b) Name _____
Address _____

(c) Name _____
Address _____

(6) INSPECTOR Eric Blend
Address PO BOX 2115
Wheeling, WV 26003
Telephone (304) 552-3874 1179

5)a) COAL OPERATOR

Name CONSOLIDATION COAL CO.
Address 6126 Energy Road
Moundsville, WV 26041

(b) COAL OWNER(S) WITH DECLARATION:

Name _____
Address _____

(c) COAL LESSEE WITH DECLARATION:

Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

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

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivery by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery by the Chief.

Received

JAN 20 2016

Office of Oil and Gas
WV Dept. of Environmental Protection

WELL OPERATOR Consolidation Coal Company

By Mason Smith
Its Project Engineer
Address 6126 Energy Road
Moundsville WV 26041
Telephone (304) 843-3565

Mason Smith

Subscribed and sworn before me this 18th day of January, 20 16

Joseph E Williams Notary Public

Marshall County, State of West Virginia

My commission expires June 5th, 20 24



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.

02/19/2016

5100422A

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

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

Operator Name Consolidation Coal Company OP Code _____

Watershed Wheeling Creek Quadrangle Majorsville, 7.5'

Elevation 1195.95' County Marshall District Webster

Description of anticipated Pit Waste: N/A

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

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Tanks, see attached letter)

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

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

Additives to be used? Bentonite, Bicarbonate of Soda

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

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

-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature Mason Smith 1-12-16 Received

Company Official (Typed Name) Mason Smith JAN 20 2016

Company Official Title Project Engineer

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 12th day of January, 20 16

Joseph E Williams

My commission expires June 5th, 2024



47-051-00422P

**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

January 11, 2016

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-1001-00, U-1035-91U-46-84, U-78-83, O-1044-9, or U-100-83.

Sincerely,



Mason Smith
Project Engineer

Received

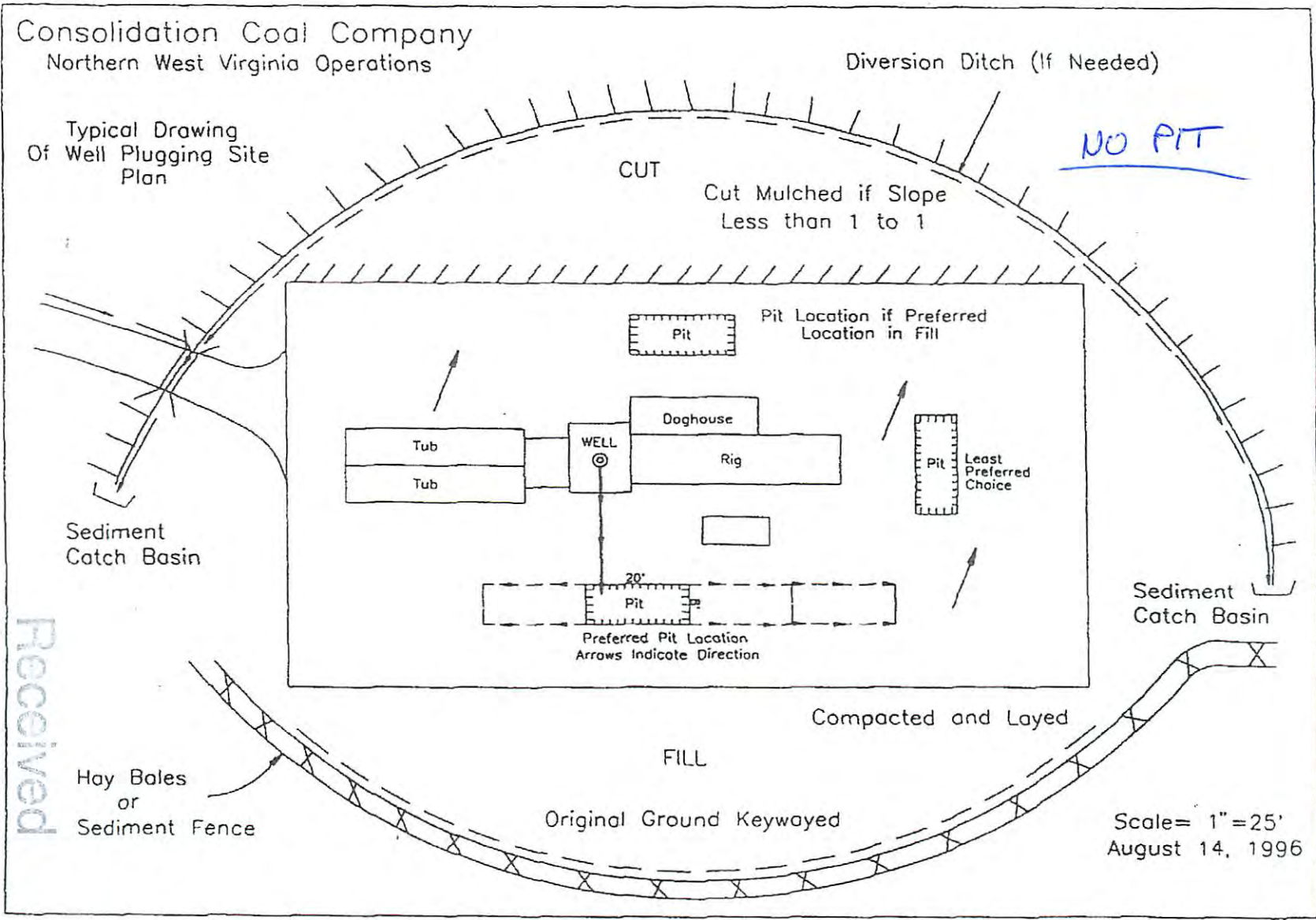
JAN 20 2016

Office of Oil and Gas
WV Dept. of Environmental Protection

02/19/2016

Consolidation Coal Company
Northern West Virginia Operations

Typical Drawing
Of Well Plugging Site
Plan



NO PIT

Scale = 1" = 25'
August 14, 1996

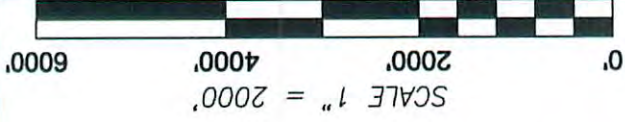
Received

JAN 20 2016

Office of Oil and Gas
WV Dept. of Environmental Protection

S100422P

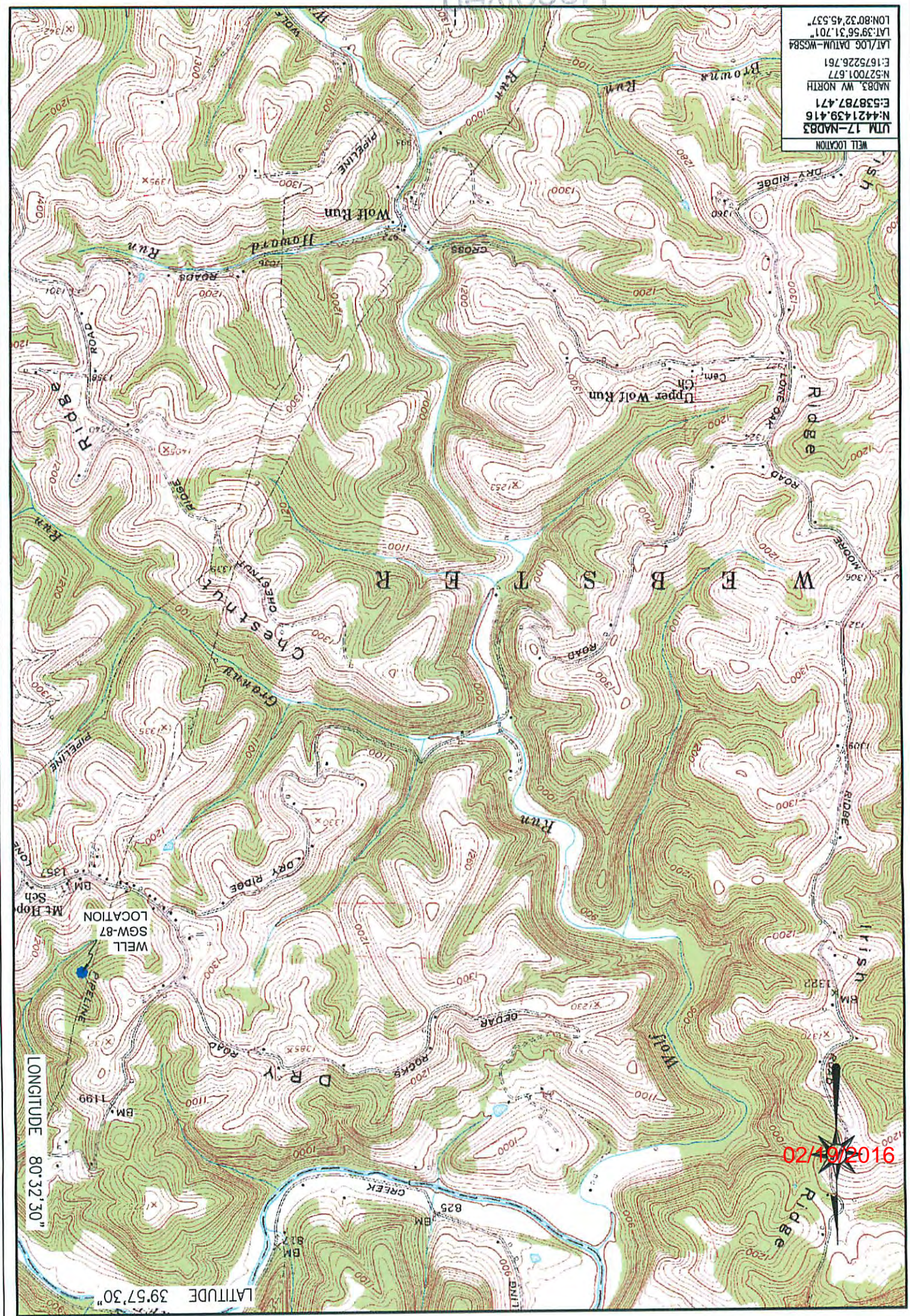
BLUE MOUNTAIN ENGINEERING



U.S. Environmental Protection
 WEST VIRGINIA
 MAJORSVILLE QUADRANGLE
 SGW-87

Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

JAN 20 2016
 LOCATION MAP
 JANUARY 7, 2016



WELL LOCATION
 UTM 17-NAD83
 N:4421439.416
 E:538787.471
 NAD83, WV NORTH
 N:527001.677
 E:1675226.761
 LAT/LOG DATUM-WGS84
 LAT:39.5631701°
 LON:80.3245537°

LATITUDE 39.5730°
 LONGITUDE 80.3230°

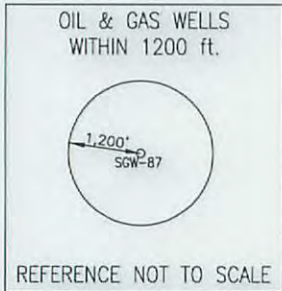
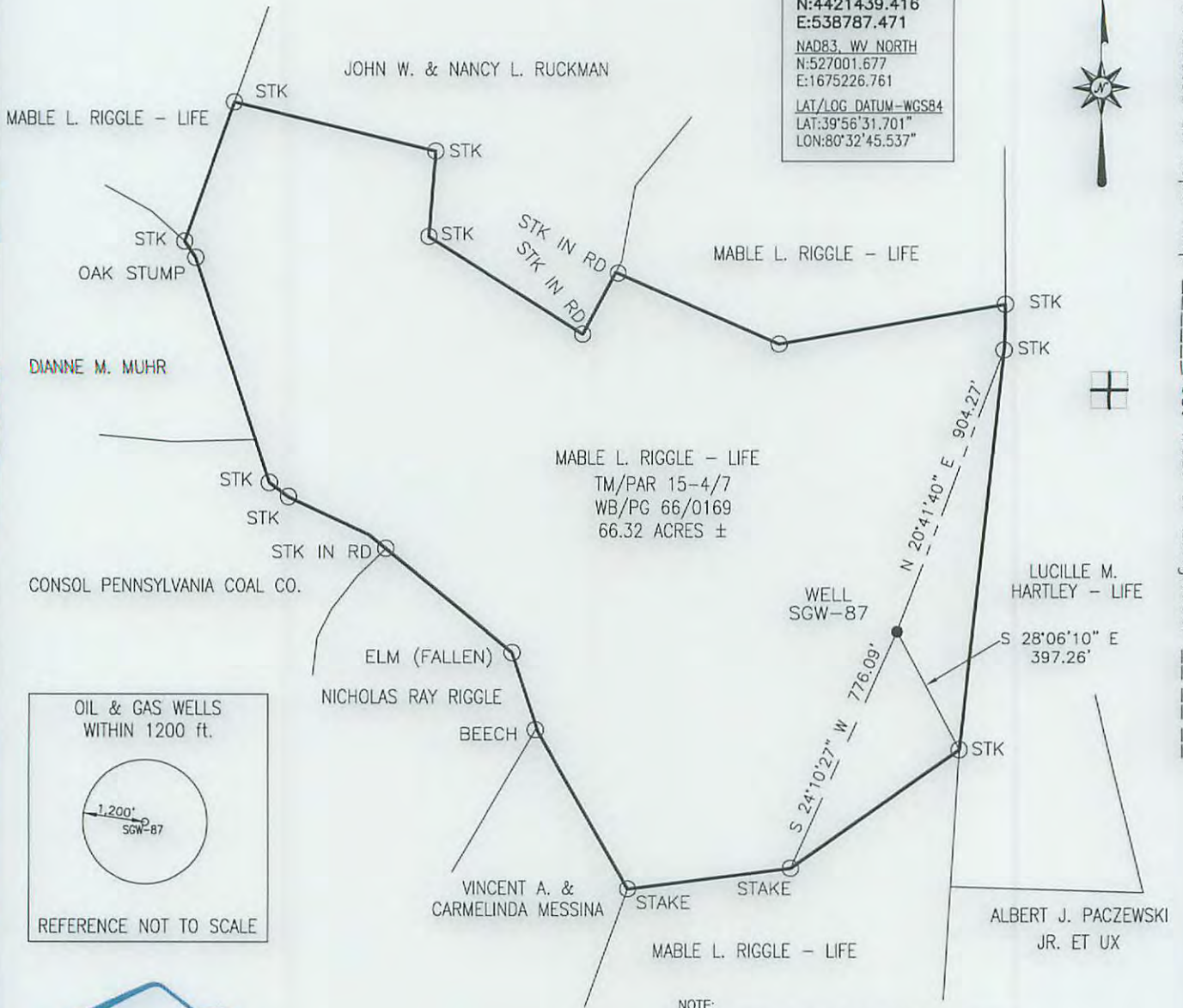
02/9/2016

S100422P

Well is located on topo map 5,899 feet south of Latitude: 39° 57' 30"

Well is located on topo map 1,210 feet west of Longitude: 80° 32' 30"

WELL LOCATION
 UTM 17-NAD83
 N:4421439.416
 E:538787.471
 NAD83_WV NORTH
 N:527001.677
 E:1675226.761
 LAT/LOG DATUM-WGS84
 LAT:39°56'31.701"
 LON:80°32'45.537"

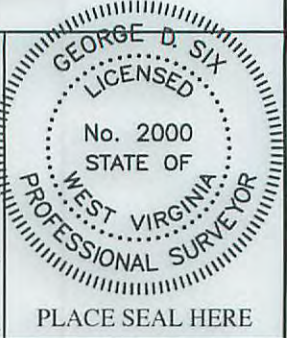


Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

NOTE:
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

FILE #: SGW-87
 DRAWING #: SGW-87
 SCALE: 1" = 500'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.
 Signed: [Signature]
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: JANUARY 7, 2016
 OPERATOR'S WELL #: SGW-87
 API WELL #: 47 51 00422 P
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK ELEVATION: 1195.95'

COUNTY/DISTRICT: MARSHALL/WEBSTER QUADRANGLE: MAJORSVILLE, WV-PA 7.5'

SURFACE OWNER: MABLE L. RIGGLE - LIFE ACREAGE: 66.32 ±

OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____ **02/19/2016**

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: _____ ESTIMATED DEPTH: _____

WELL OPERATOR CONSOLIDATION COAL CO., OHIO VALLEY OPERATIONS DESIGNATED AGENT RONNIE HARSH
 Address 6126 ENERGY DRIVE Address 6126 ENERGY DRIVE
 City MOUNDSVILLE State WV Zip Code 26041 City MOUNDSVILLE State WV Zip Code 26041