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**west virginia** department of environmental protection

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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 25, 2016

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5100469, 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: 4696  
Farm Name: CROW, JOHN  
**API Well Number: 47-5100469**  
**Permit Type: Plugging**  
Date Issued: 02/25/2016

02/26/2016

**Promoting a healthy environment.**

## 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

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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.

FORM WW-4(B)  
Rev. 2/01

1.) Date: February 16, 2016  
2.) Operator's Well No. SGW-118  
3.) API Well No. 47 - 51 - 00469  
State County Permit

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

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

5.) LOCATION: Elevation: 1188.90' Watershed: Dunkard Fork  
District: Webster County: Marshall Quadrangle: Majorsville 7.5'

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

8.) OIL & GAS INSPECTOR TO BE NOTIFIED 9.) PLUGGING CONTRACTOR  
Name Eric Blend Name \_\_\_\_\_  
Address PO BOX 2115 Address \_\_\_\_\_  
Wheeling, WV 26003 \_\_\_\_\_

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

U-1025-91 REVISION #27 & #31  
COAL COMPANY WELL OPERATION # SGW-87  
101C  
SEE EXHIBIT NO. 1

OK J...

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

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

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02/26/2016

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U. S. Department of Labor  
OCT 17 1990Mine Safety and Health Administration  
4015 Wilson Boulevard  
Arlington, Virginia 22203-1984

W. J. SCHELLER



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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WV Department of  
Environmental Protection

02/26/2016

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, 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.
- (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.

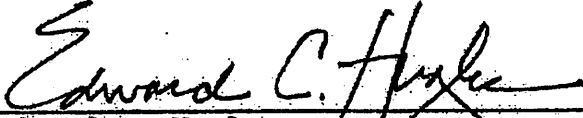
- (l) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall 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 17<sup>th</sup> 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".

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02/26/2016

WELL LOG SUMMARY

LOCATION	COMPANY <b>The Manufacturers Light &amp; Heat Company</b>				DIV. <b>5</b>	FIELD <b>Majorsville</b>	WELL NO. <b>L-1696</b>					
	FARM <b>John &amp; Emma Crow</b>	ACRES <b>330</b>	LEASE NO. <b>L-2900</b>	DISTRICT - TOWN - TOWNSHIP <b>Webster</b>		COUNTY <b>Marshall</b>	STATE <b>W.Va.</b>					
	TOPO. MAP <b>Cameron</b>		Quadrangle	Ft.	of	of	and					
	CONTRACTOR		ADDRESS		Drilled from _____ Ft. to _____ Ft.							
CONTRACTOR	CONTRACTOR <b>Lehmann &amp; Johnson</b>		ADDRESS <b>Pittsburgh, Pa.</b>		Type of Rig <b>Rotary</b>							
	DRILLING CONTRACTOR		ADDRESS		Drilled from <b>0</b> Ft. to <b>1818</b> Ft.							
FIRST RIG COMMENCED (DATE)		DRILLING COMPLETED (DATE)		COMPLETED TOTAL DEPTH		DATE PURCHASED	FOR. WELL NO.					
<b>Drilling 7/30/62</b>		<b>Well 10/17/62</b>		<b>1818 ft.</b>								
HOLE SIZE	BIT GAUGE (INCHES)	<b>1 7/8"</b>	<b>1 3/4"</b>	<b>1 1/2"</b>	<b>1 1/4"</b>							
	FROM-TO (FEET)	<b>0 - 62'</b>	<b>62 - 71 1/2'</b>	<b>71 1/2 - 178 1/2'</b>	<b>178 1/2 - 1818'</b>							
CASING AND TUBING	SIZE (O.D.)	<b>13 3/8"</b>	<b>8 5/8"</b>	<b>5"</b>								
	WEIGHT/FOOT	<b>18 1/2</b>	<b>21 1/2</b>	<b>17 1/2</b>								
	STEEL GRADE	<b>K-40</b>	<b>J-55</b>	<b>J-55</b>								
	COUPLING TYPE	<b>Short</b>	<b>Short</b>	<b>Short</b>								
(All Measurements less threads)	SETTING DEPTH	<b>61' 7"</b>	<b>71 1/2"</b>	<b>178 1/2"</b>								
	LEFT IN HOLE	<b>61' 7"</b>	<b>71 1/2"</b>	<b>178 1/2"</b>								
CEMENT	NO. OF SACKS	<b>100</b>	<b>525</b>	<b>375</b>								
	TYPE	<b>IS</b>	<b>IS</b>	<b>IS</b>								
PACKER	WEIGHT #/GAL.	<b>11.5</b>	<b>11.5</b>	<b>11.5</b>								
	MANUFACTURER											
PACKER	TYPE											
	SIZE											
PACKER	SETTING DEPTH											
	TREATMENT	TYPE *	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW MCF/DAY	PERFORMED BY	DATE					
WELL STIMULATION				From _____ to _____	Before _____ After _____							
				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					
	<b>10/14/62</b>	<b>Big Injura</b>	From <b>1819</b> to <b>1830</b> From <b>1831</b> to <b>1836</b>	<b>Pitot</b> <b>Tuba</b>	<b>160/10"</b> <b>Hg</b>	<b>1"</b>	<b>8,090</b>					
WELLHEAD PRESSURE TESTS	DATE TAKEN	FORMATION	MINUTE PRESSURE - PSIG					WELLHEAD PRESSURE - PSIG				
	<b>10/14/62</b>	<b>Big Injura</b>	1	3	5	10	20	30	24 HR.	48 HR.	72 HR.	MAX. PRESS.
MISC.	DEPTH MEASUREMENT TAKEN FROM:				DIST. TO GROUND		ELEVATION					
	<input type="checkbox"/> Derrick Floor	<input checked="" type="checkbox"/> Ground	Other (Specify) <b>13' below K.B.</b>		ft.		<b>1186.50' G.I.</b>					
REMARKS	LOGGED		LOGGED BY (COMPANY)		DATE LOGGED							
	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No										
<p>* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable</p> <p><b>Drilling Completed 8/6/62 Well Completed 10/17/62</b></p> <p><b>Budget 2200</b></p> <p style="text-align: right;">RECEIVED Office of Oil and Gas FEB 18 2016</p>												

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

Verified by David Lambert DIVISION ENGINEER

Approved by

WV Department of Environmental Protection  
DIVISION SUPERINTENDENT

WELL LOG SUMMARY

DIV.	FIELD	FARM	COUNTY	WELL NO.
5	Majorsville	John & Emma Crow	Marshall	L-1496
ORIGIN OF FORMATION DEPTHS				
<input checked="" type="checkbox"/> Driller's Log <input type="checkbox"/> Service Company Log <input type="checkbox"/> Combination				
FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Depth Datum - ground level				
				Water - 82'
Pittsburgh Coal	630	637	7	
Big Dunford	1097	1132	35	
Sand	1157	1187	30	
Sand	1197	1222	25	
Sand	1247	1297	50	
Gas Sand	1313	1312	29	Show of gas at 1337' - Est. 50 MCF/day
1st. Salt Sand	1387	1412	25	
Sand	1467	1482	15	
3rd. Salt Sand	1552	1697	145	
Big Injun	1737			Pay Zones - Big Injun
Drilled 7 7/8" hole to				1819-1830 Driller
1787' and cemented 5 1/2"				1834-1836 Driller
Casing at 1785'				
Drilled 4 1/4" hole to				
1848'				
Total Depth		1848		
Started to drill with gas at 1791' at 6:04 A.M. 8/6/62				
Pay Zones	Time	Stand Pipe Back Pressure	Flow Line Pressure	Capacity of well minus drilling-in gas
1801-1808	7:45 A.M. to 8:41 A.M.	150 psig	2" Hg	0
1816-1819	10:25 A.M. to 10:38 A.M.	150 psig	2" Hg	0
1819-1830	10:30 A.M. to 11:20 A.M.	155-215 psig	2" Hg-h psig	2,800 MCF/day
1834-1836	12:25 P.M. to 12:29 P.M.	215-220 psig	4-5 psig	1,500 MCF/day
1848	at 3:48 P.M.	240 psig	3 psig	2,000 MCF/day
Killed well at 4:05 P.M. 8/6/62				
RECEIVED Changed to gas to drill at 1367' and drilled to 1787' Started 12:16 A.M. 8/4/62 Killed well 8:52 A.M. 8/4/62 WV Department of Environmental Protection				

51004897

NOTICE OF WELL STATUS CHANGE

COMPANY <b>The Manufacturers Light &amp; Heat Company</b>		FIELD <b>Majorsville</b>	DIV. <b>5</b>	FOREIGN WELL NO. (IF ANY) ---	COMPANY WELL NO. <b>L-1696</b>
FARM NAME <b>John &amp; Emma Crow</b>		TOWNSHIP-TOWN-DISTRICT <b>Webster</b>	COUNTY <b>Marshall</b>	STATE <b>W.Va.</b>	LEASE-DEED NO. <b>L-2900</b>
ACRES <b>330</b>		DATE COMP. <b>10/17/62</b>			
LAST ACTIVE WELL ON FARM <input type="checkbox"/> YES <input checked="" 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 checked="" type="checkbox"/> DRILLING WELL <input type="checkbox"/> ACTIVE WELL <input type="checkbox"/> ABANDONED WELL	<input type="checkbox"/> Production <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Production <input type="checkbox"/> Storage
WELL STATUS CHANGE OR WORK PERFORMED	<input checked="" type="checkbox"/> COMPLETED <input type="checkbox"/> REDRILLED FOR STORAGE <input type="checkbox"/> RECONDITIONED <input type="checkbox"/> RECONDITIONED & TRANSF. TO STORAGE <input type="checkbox"/> TRANSFERRED TO <input type="checkbox"/> PURCHASED FOR <input type="checkbox"/> DRILLED DEEPER <input type="checkbox"/> PLUGGED AND ABANDONED <input type="checkbox"/> SOLD	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Dry <input type="checkbox"/> Retained <input type="checkbox"/> Abandoned <input type="checkbox"/> Retained <input type="checkbox"/> Abandoned <input type="checkbox"/> Production <input type="checkbox"/> Storage <input type="checkbox"/> Production <input type="checkbox"/> Storage
Remarks <b>Drilling Completed 8/6/62</b> <b>Well Completed 10/17/62</b>		

COMPLETION DATA (If applicable)	DRILLED TO <b>1810</b> feet <b>into Big Injun</b> sand PLUGGED BACK <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If Yes, to depth of _____ feet _____ sand	
	WELL TREATMENT <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If Yes, Type of Treatment _____	
	BEFORE TREATMENT (If applicable) TYPE OF GAUGE: <input type="checkbox"/> Orifice Well Tester <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Other (Specify) _____ GAUGE READING: _____ inches <input type="checkbox"/> Mercury <input type="checkbox"/> Water or _____ psig through _____ inch opening after blowing _____ hours FLOW: _____ cubic feet per day ROCK PRESSURE: _____ psig in _____ hours	
	FINAL READING TYPE OF GAUGE: <input type="checkbox"/> Orifice Well Tester <input checked="" type="checkbox"/> Pitot Tube <input type="checkbox"/> Other (Specify) _____ GAUGE READING: <b>368/10</b> inches <input checked="" type="checkbox"/> Mercury <input type="checkbox"/> Water or _____ psig through <b>4</b> inch opening after blowing <b>5</b> minutes FLOW: <b>8,090,000</b> cubic feet per day ROCK PRESSURE: <b>976</b> psig in <b>72</b> hours	

AUTHORIZATION FOR WORK PERFORMED	<input checked="" type="checkbox"/> Well Order Number <b>L-1690</b> Budget No. <b>2200</b> <input type="checkbox"/> Work Order Number _____ <input type="checkbox"/> Abandonment Order Number _____	For General Office Use			
WORK PERFORMED BY	MACHINE NUMBER OR CONTRACTOR'S NAME <b>Lehmann &amp; Johnson</b>	DEPARTMENT	SECTION	NOTED BY	DATE
		PRODUCTION	Geology		
			Storage		
			Clerical		
			Map		
		LAND OPERATING			
		TREASURY	Land Accounting		
			Plant Accounting		
		CIVIL ENGINEERING			

Compiled By A. Schafer Date 11/30/62  
D. Embert  
 Approved By \_\_\_\_\_ Date \_\_\_\_\_  
 DIVISION SUPERINTENDENT

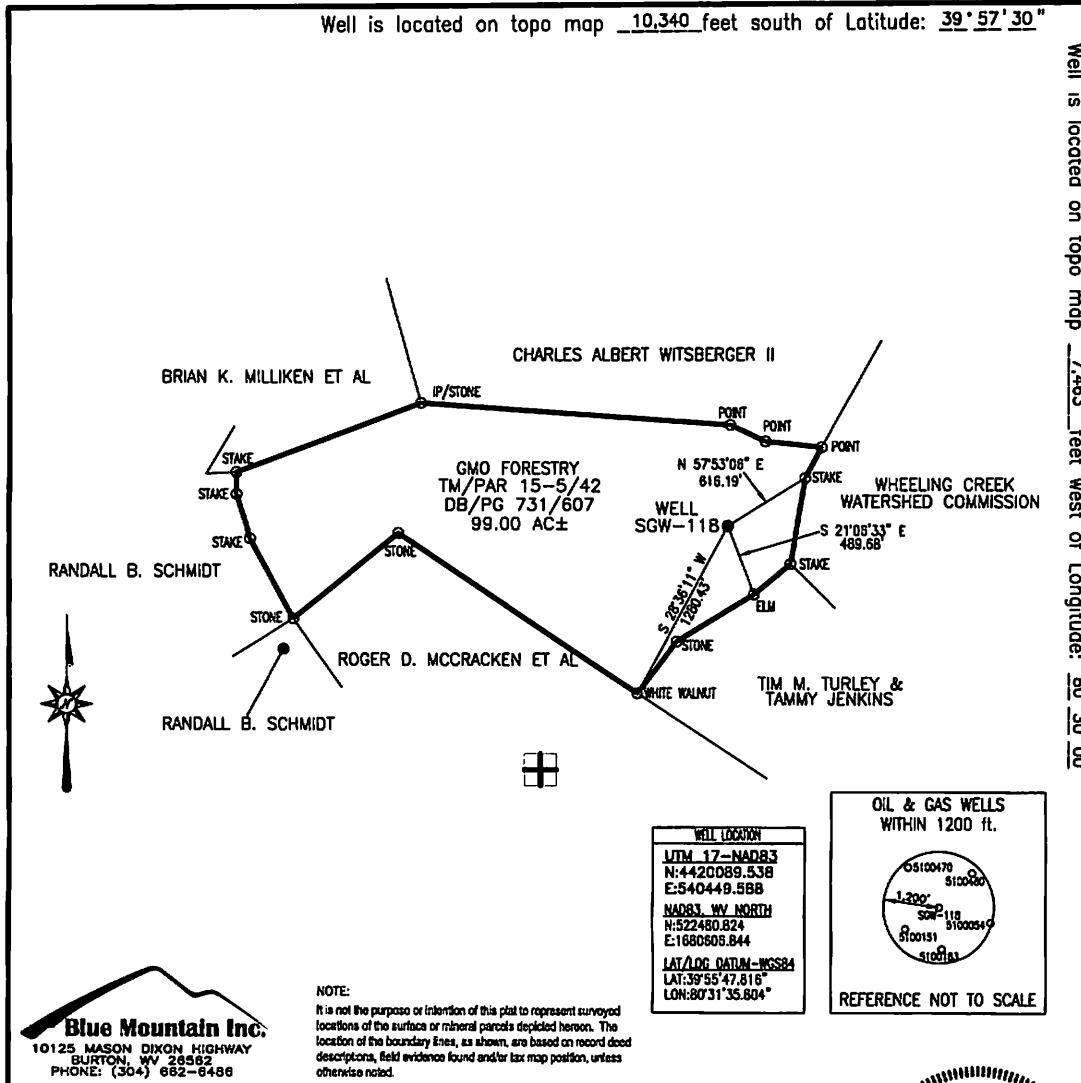
Return to Land Operating Department for filing  
02/26/2016



51004697

Well is located on topo map 10,340 feet south of Latitude: 39° 57' 30"

Well is located on topo map 7,463 feet west of Longitude: 80° 30' 00"



**Blue Mountain Inc.**  
 10125 MASON DIXON HIGHWAY  
 BURTON, WV 26582  
 PHONE: (304) 682-6486

NOTE:  
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. 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.

**WELL LOCATION**  
 UTM 17-NAD83  
 N:4420089.538  
 E:540449.588  
 NAD83 WV NORTH  
 N:522480.824  
 E:1680608.844  
 LAT/LONG DATUM-WGS84  
 LAT:39°55'47.816"  
 LONG:80°31'35.804"

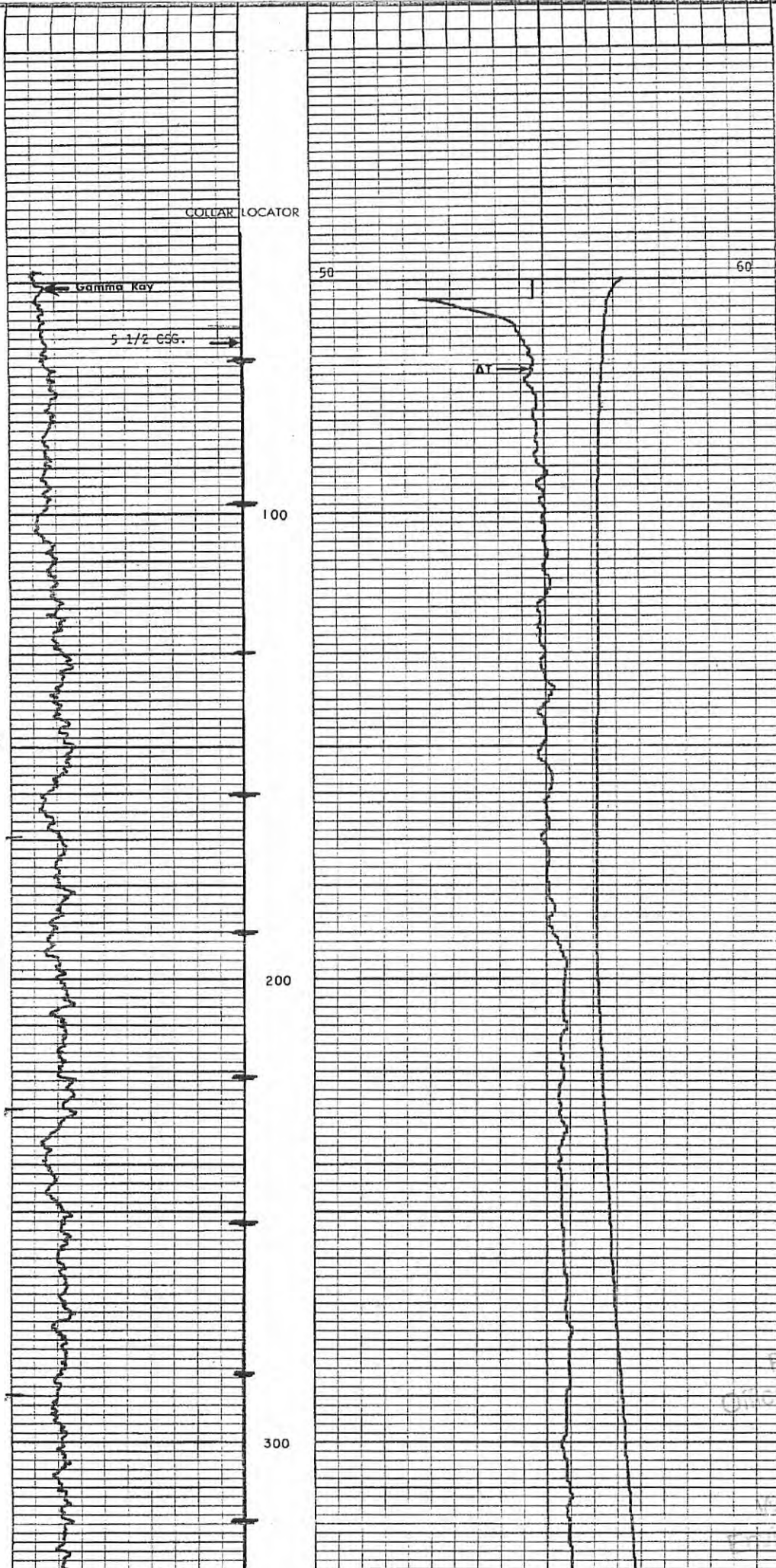
OIL & GAS WELLS WITHIN 1200 ft.  
  
 REFERENCE NOT TO SCALE

FILE #:	SGW-118	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.	
DRAWING #:	SGW-118		
SCALE:	1" = 1000'		
MINIMUM DEGREE OF ACCURACY:	1/2500		
PROVEN SOURCE OF ELEVATION:	U.S.G.S. MONUMENT THOMAS 1498.81'	Signed:	<i>George Dix</i>
		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:	FEBRUARY 11, 2016
		OPERATOR'S WELL #:	SGW-118
		API WELL #:	47      51      00469
			STATE    COUNTY    PERMIT
Well Type:	<input type="checkbox"/> Oil <input type="checkbox"/> Waste Disposal <input type="checkbox"/> Production <input type="checkbox"/> Deep <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid Injection <input checked="" type="checkbox"/> Storage <input checked="" type="checkbox"/> Shallow		
WATERSHED:	DUNKARD FORK	ELEVATION:	1188.90'
COUNTY/DISTRICT:	MARSHALL/WEBSTER	QUADRANGLE:	MAJORSVILLE, WV-PA 7.5'
SURFACE OWNER:	GMO FORESTRY	ACREAGE:	99.00±
OIL & GAS ROYALTY OWNER:		ACREAGE:	
		DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/>	RECEIVED Office of Oil and Gas FEB 18 2016
		PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG & ABANDON <input checked="" type="checkbox"/>	
		CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (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

RECEIVED  
 Office of Oil and Gas  
 FEB 18 2016  
 Department of Environmental Protection  
 02/26/2016



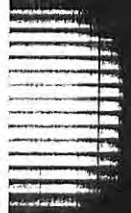
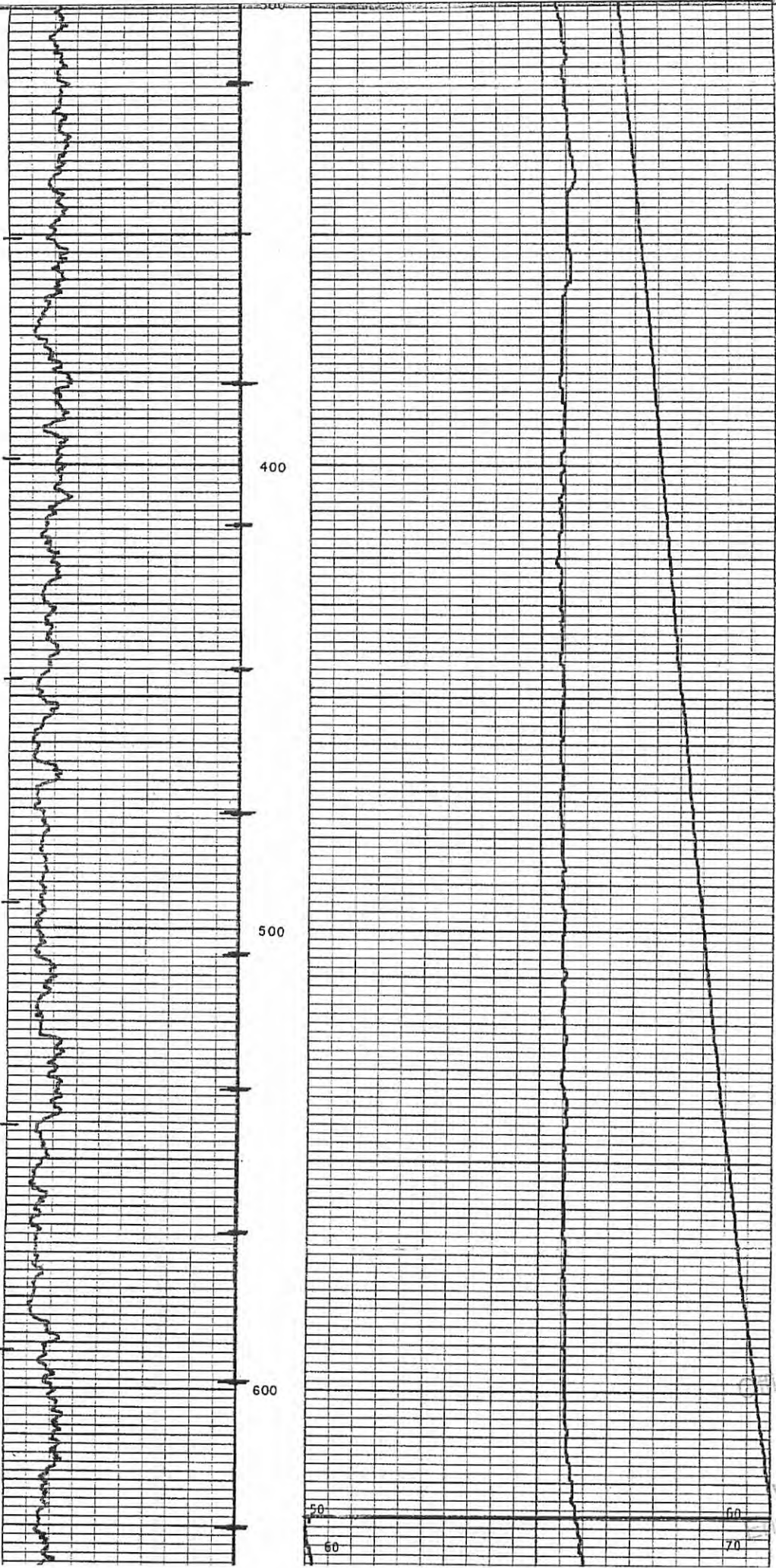
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Production

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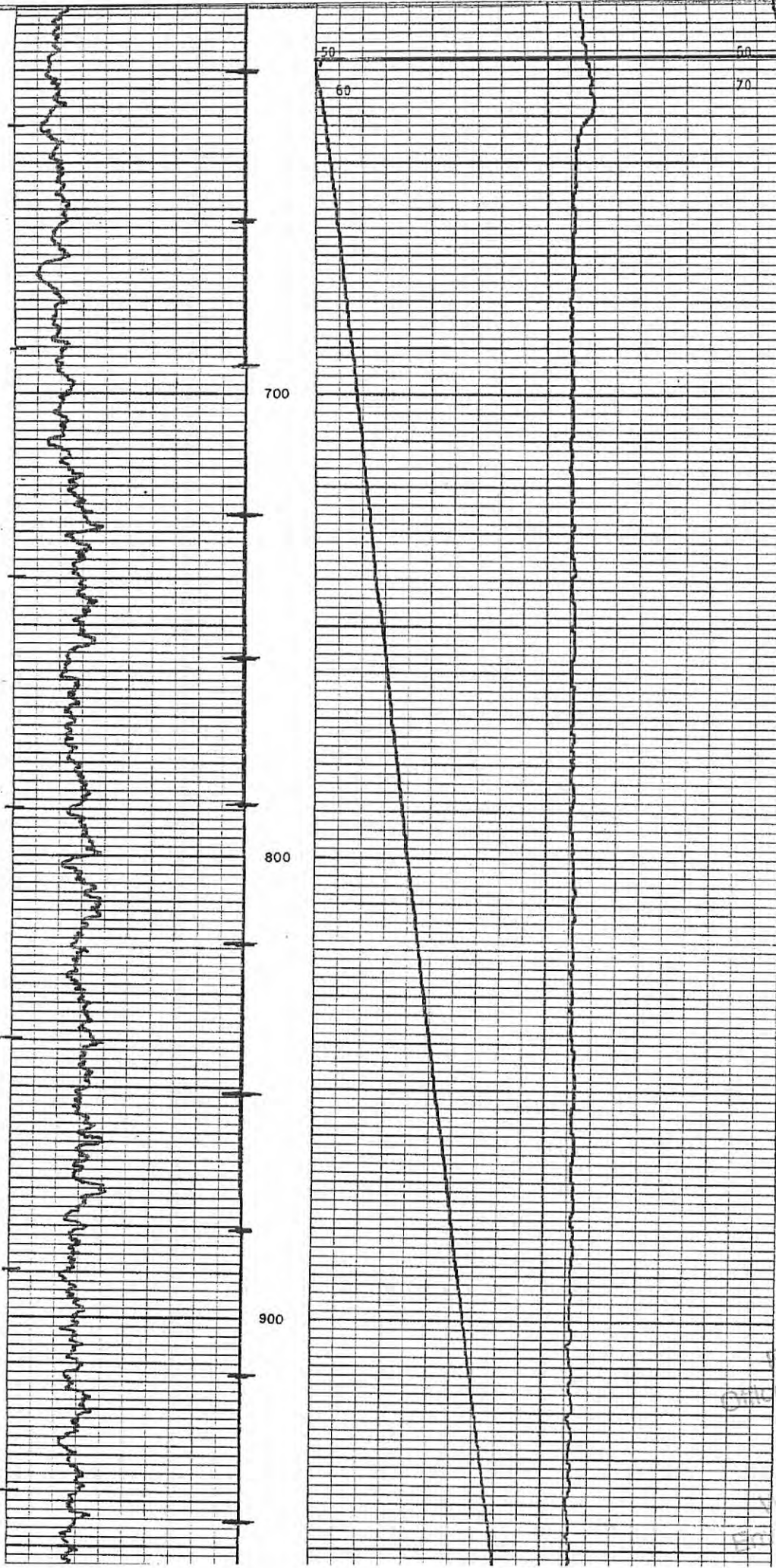
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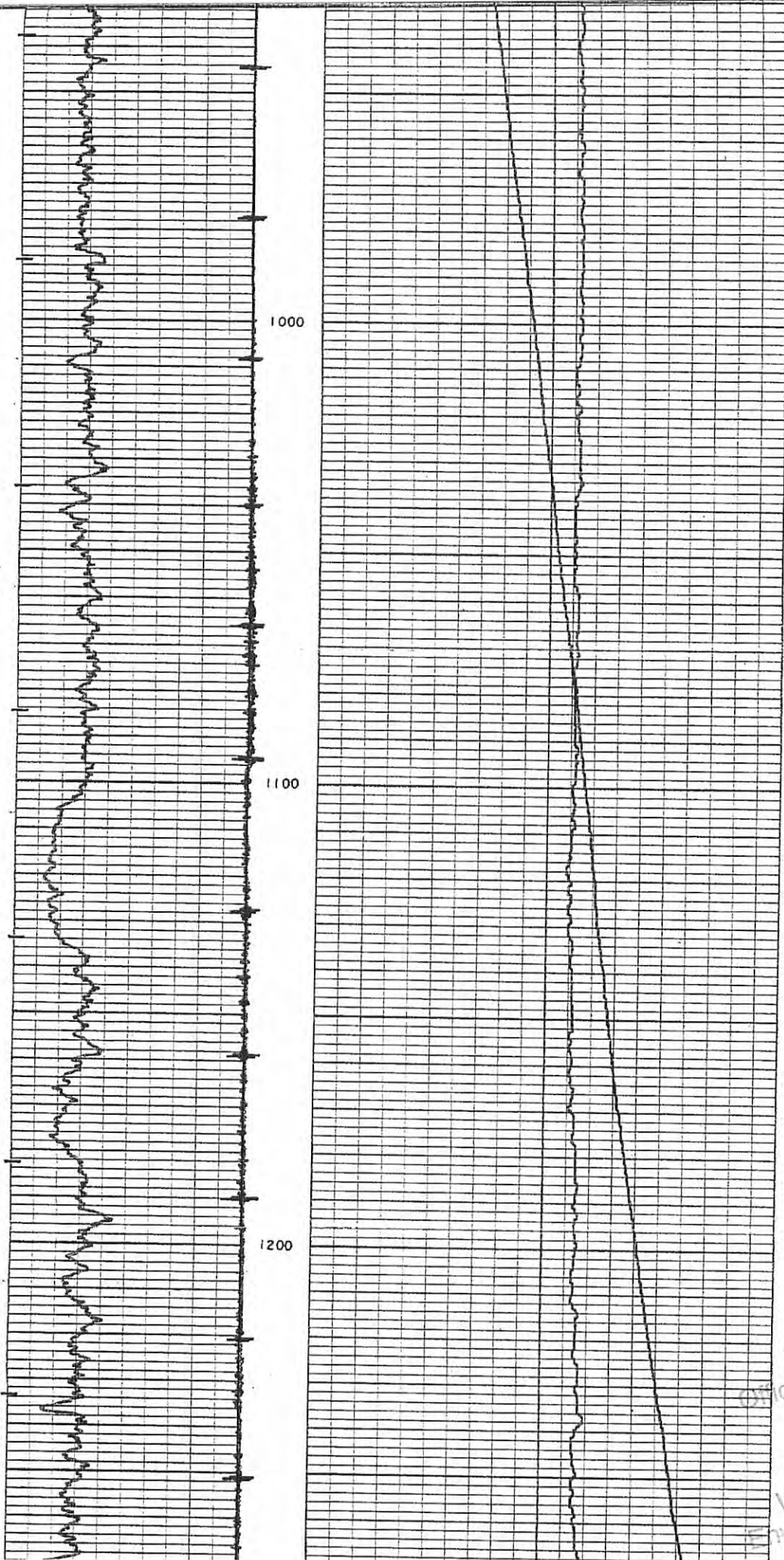
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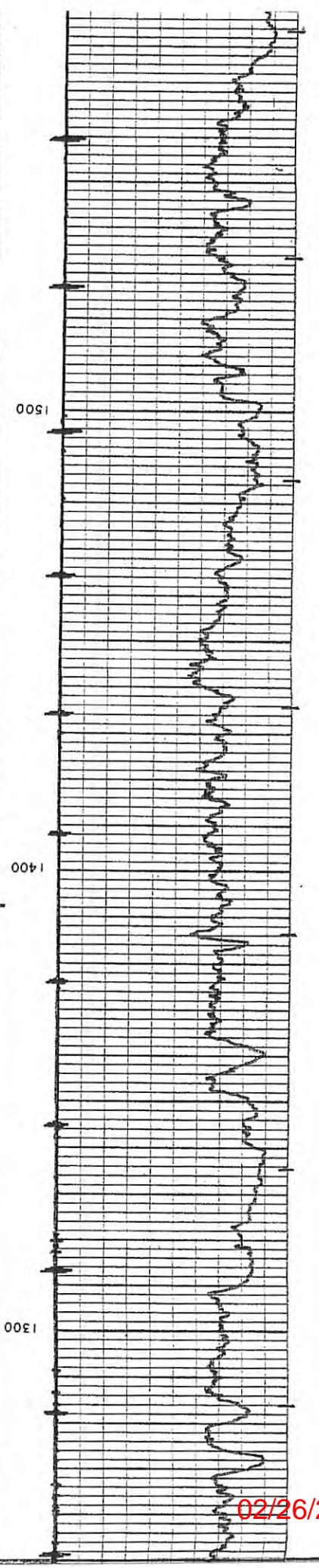
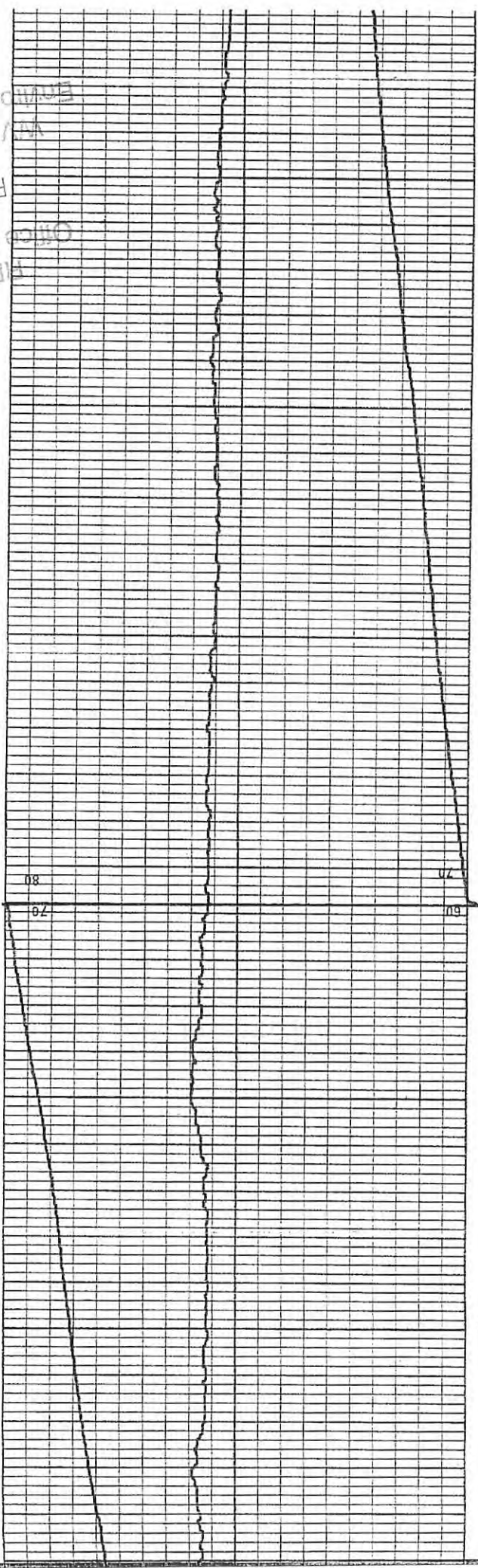
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02/25/2016

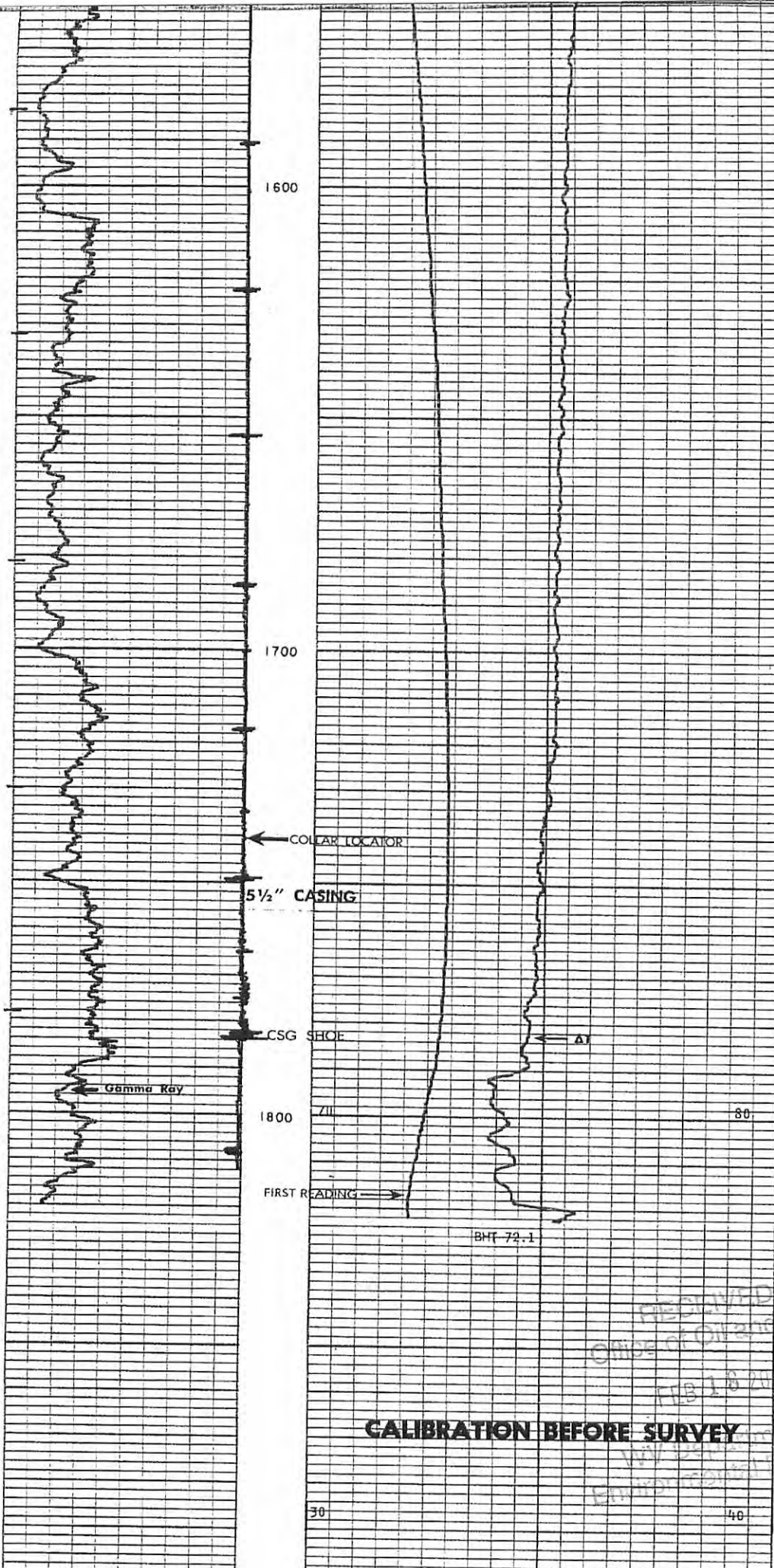
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VA / Del  
Environm's



02/26/2016

5100469P



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 FEB 18 2016  
 Wyoming Department of  
 Environmental Protection

02/26/2016



# CALIBRATION BEFORE SURVEY

51004698

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# CALIBRATION AFTER SURVEY

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## CALIBRATION DATA

COMPANY COLUMBIA GAS TRANSMISSION CORPORATION

DRILLER T.D. 1848'

WELL JOHN & EMMA CROW #L-4696

BIRDWELL T.D. 1817'

FIELD MAJORSVILLE

BIRDWELL F.R. 1817'

LOCATION WEBSTER TWP.

ELEV.: K.B. N.A.

COUNTY MARSHALL

D.F. N.A.

STATE PA DATE 5-18-80

G.L. 1186.50'

### BIRDWELL DIVISION



*Seismograph Service Corporation*  
A SUBSIDIARY OF RAYTHEON COMPANY

SSC-1285

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Office of Oil and Gas

FEB 18 2016

WV Department of  
Protection

02/26/2016

1) Date: February 16, 2016  
2) Operator's Well No. SGW-118  
3) API Well No. 47-51-00469  
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 GMO Forestry  
Address PO BOX 25  
Pittsfield, NH 03263  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(6) INSPECTOR Eric Blend  
Address PO BOX 2115  
Wheeling, WV 26003  
Telephone (304) 552-1179

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

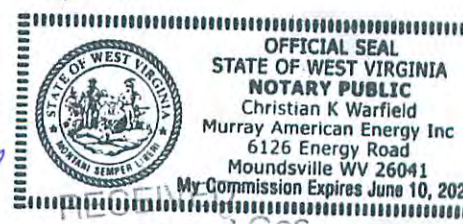
THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

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.

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 16 day of February, 20 16  
Christian K. Warfield Notary Public,  
Marshall County, State of West Virginia  
My commission expires June 10, 20 24  
*Christian K Warfield*



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](mailto:depprivacyofficer@wv.gov).

Office of Oil and Gas  
WV Department of Environmental Protection  
02/26/2016

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 Dunkard Fork Quadrangle Majorsville, 7.5'

Elevation 1188.90' 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

Company Official (Typed Name) Mason Smith

Company Official Title Project Engineer

Subscribed and sworn before me this 16 day of February, 2016

Christian K. Warfield Christian K. Warfield  
Notary Public

My commission expires June 10, 2024



**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](mailto:MasonSmith@coalsource.com)

**MASON SMITH**  
Project Engineer

February 16, 2016

Department of Environmental Protection  
Office of Oil and Gas  
601-57<sup>th</sup> 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,

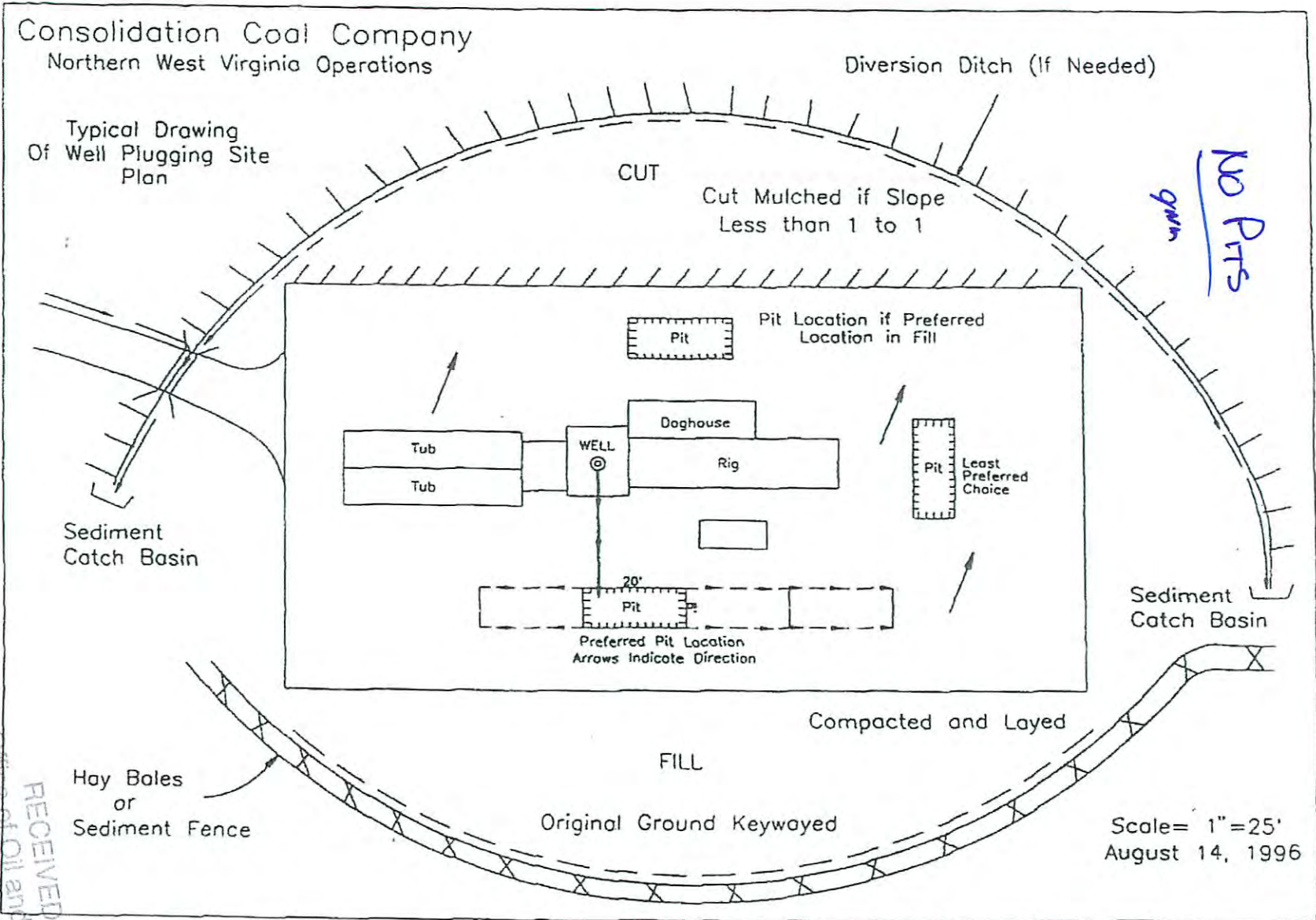
Mason Smith  
Project Engineer

RECEIVED  
Office of Oil and Gas  
FEB 18 2016  
WV Department of  
Environmental Protection

02/26/2016

Consolidation Coal Company  
Northern West Virginia Operations

Typical Drawing  
Of Well Plugging Site  
Plan



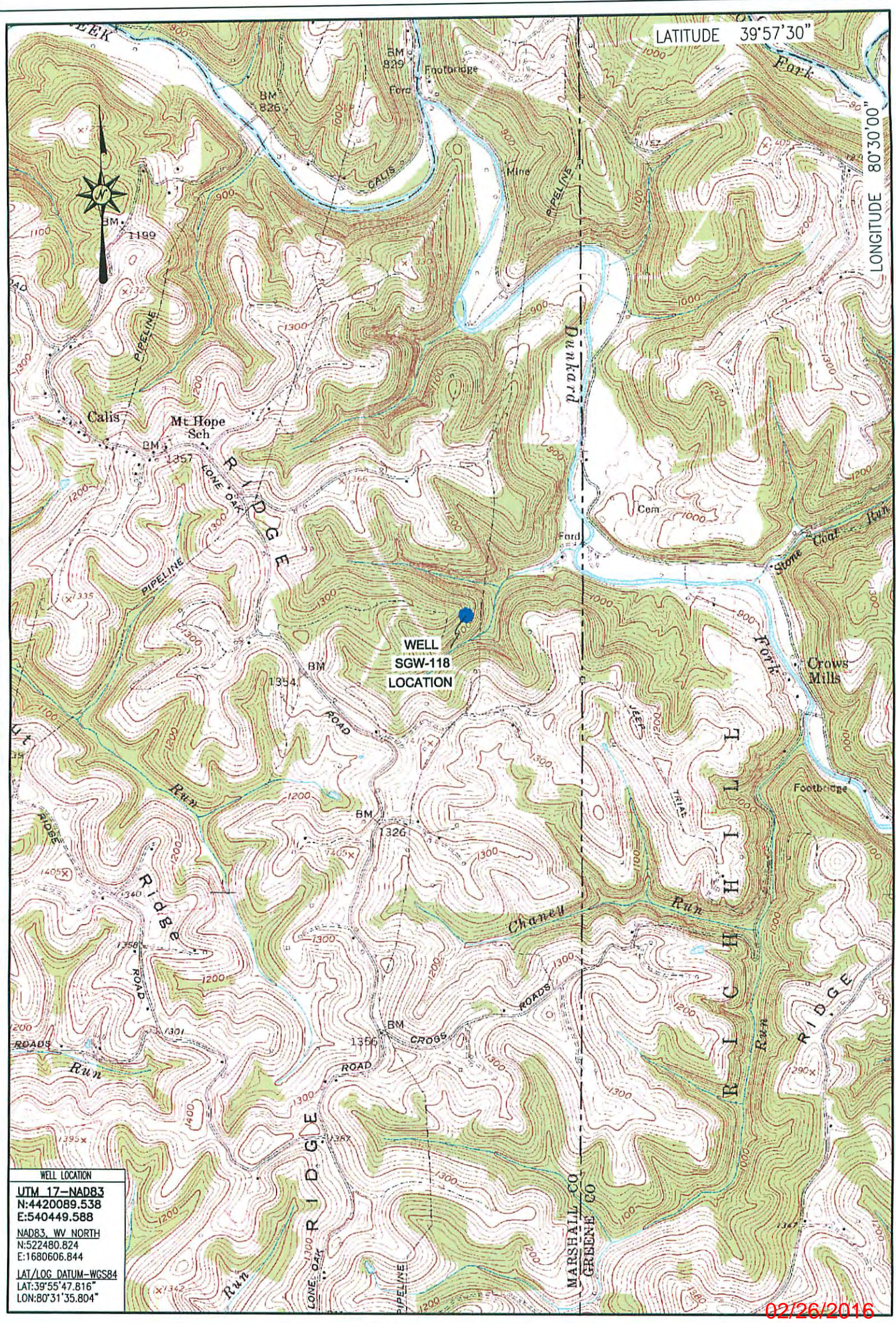
*Handwritten:* NO PITS  
gwm

WV Department of  
Environmental Protection

FEB 18 2015

RECEIVED  
Office of Oil and Gas

5100469P



LOCATION MAP  
FEBRUARY 11, 2016

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

SGW-118  
 MAJORSVILLE QUADRANGLE  
 WEST VIRGINIA

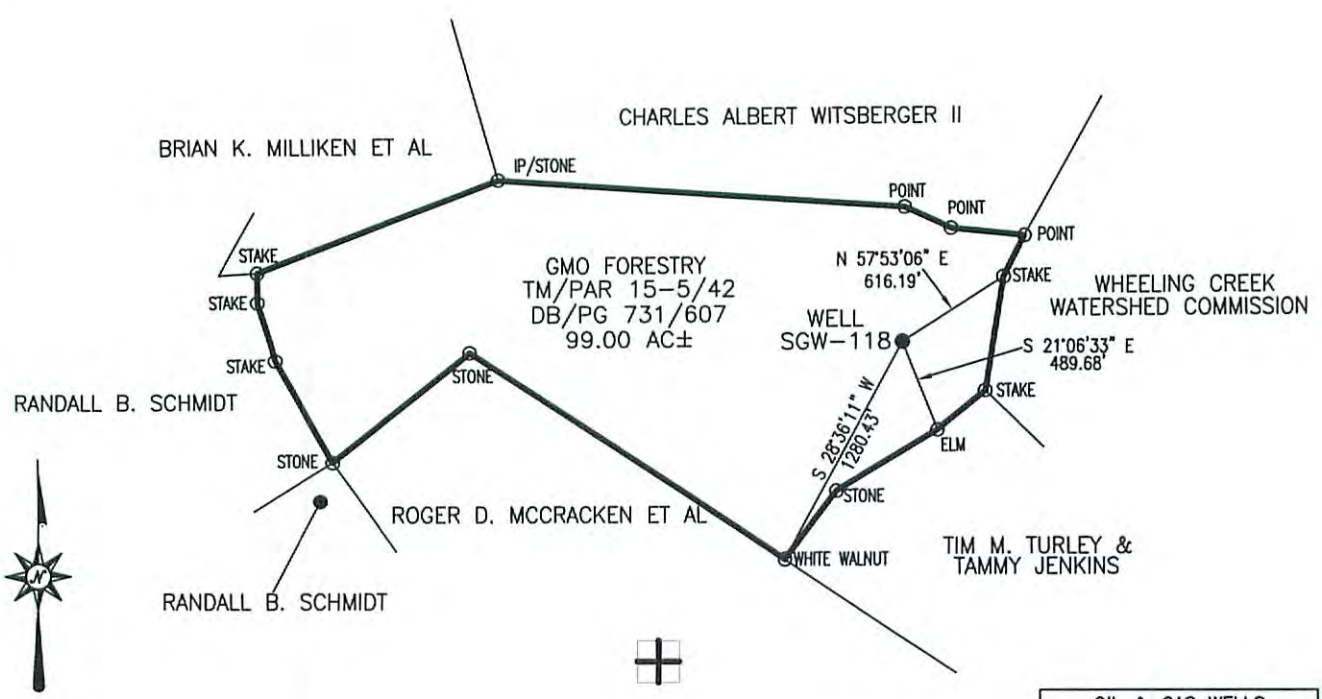
SCALE 1" = 2000'  
 0' 2000' 4000' 6000'



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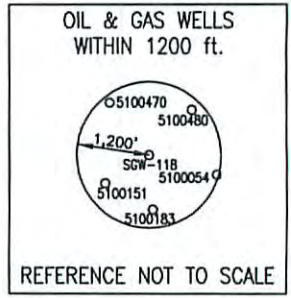
Well is located on topo map 10,340 feet south of Latitude: 39° 57' 30"

Well is located on topo map 7,463 feet west of Longitude: 80° 30' 00"



NOTE:  
It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. 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.

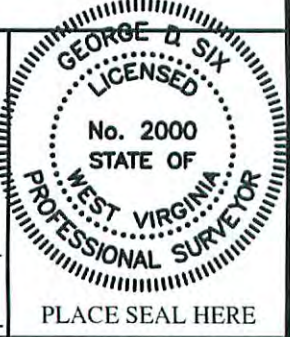
WELL LOCATION	
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E:	540449.588
NAD83, WV NORTH	
N:	522480.824
E:	1680606.844
LAT/LOG DATUM-WGS84	
LAT:	39°55'47.816"
LO:	80°31'35.804"



FILE #: SGW-118  
 DRAWING #: SGW-118  
 SCALE: 1" = 1000'  
 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: FEBRUARY 11, 2016  
 OPERATOR'S WELL #: SGW-118  
 API WELL #: 47 51 00469P  
 STATE COUNTY PERMIT

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

WATERSHED: DUNKARD FORK ELEVATION: 1188.90'  
 COUNTY/DISTRICT: MARSHALL/WEBSTER QUADRANGLE: MAJORSVILLE, WV-PA 7.5'

SURFACE OWNER: GMO FORESTRY ACREAGE: 99.00±  
 OIL & GAS ROYALTY OWNER: \_\_\_\_\_ ACREAGE: \_\_\_\_\_

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

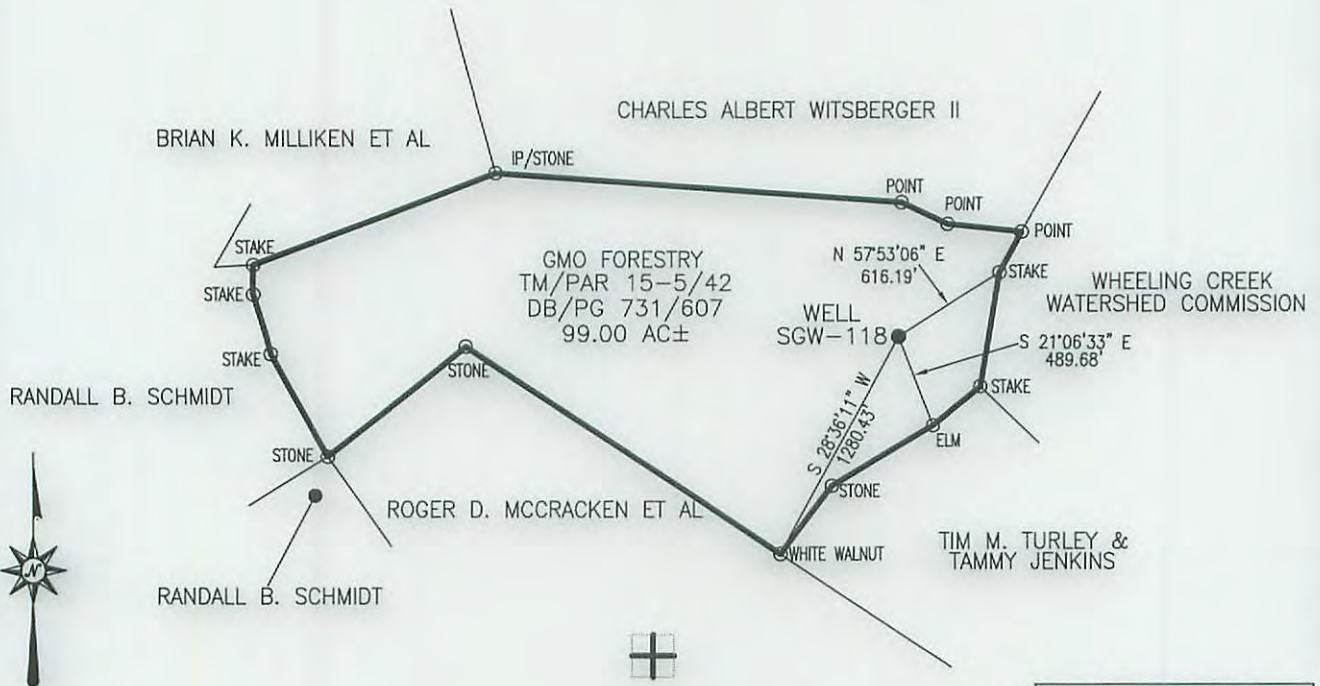
TARGET FORMATION: \_\_\_\_\_ ESTIMATED DEPTH: \_\_\_\_\_

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

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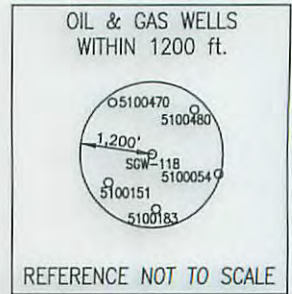
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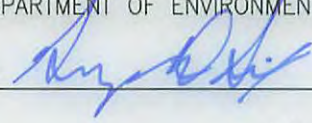
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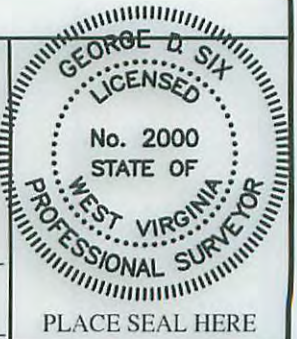


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Signed: 

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



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 OFFICE OF OIL & GAS  
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 CHARLESTON, WV 25304



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 WELL OPERATOR CONSOLIDATION COAL CO., OHIO VALLEY OPERATIONS DESIGNATED AGENT RONNIE HARSH  
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02/26/2016