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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

April 26, 2016

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-5100344, 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: 4527  
Farm Name: ELDER, MAY  
**API Well Number: 47-5100344**  
**Permit Type: Plugging**  
Date Issued: 04/26/2016

## 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

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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.

4705100344

1.) Date: March 11, 2016  
2.) Operator's Well No. SGW-111  
3.) API Well No. 47 - 51 - 00344  
State County Permit

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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 \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X)

5.) LOCATION: Elevation: 1261.09' Watershed: Dunkard Fork of Wheeling Creek  
District: Webster County: Marshall Quadrangle: Majorsville, WV-PA 7.5'

6.) WELL OPERATOR Consolidation Coal Co. 7.) DESIGNATED AGENT Ronnie Harsh  
Address 1 Bridge St. Address 1 Bridge St.  
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:

*Mine permit U-1025-91 Rev 27+31*

*Coal at 705'-710'*

*Plug #1 from Attainable bottom to 910' class A expanding cement*

*After Plug #1 101C exemption applies* SEE EXHIBIT NO. 1

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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## 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.

### 4 ½ 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 the lowest minable coal seam.
- (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Run 4 ½ casing from surface to a minimum of 200 feet below lowest minable coal seam and circulate 50/50 poz mix cement followed by expanding cement to surface. The expanding cement shall extend from a minimum of 200 feet below minable coal seam to a point 100 feet above.

The 4 ½ 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 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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U. S. Department of Labor  
OCT 22 1990

W. J. SCHELLER

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

4705100344P



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:

04/29/2016

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.

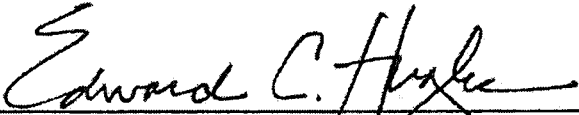
- (l) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall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



COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES  
WELL LOG SUMMARY

1 of 2 Sheets

LOCATION COMPANY The Manufacturers Light & Heat Company FARM 300 19th St L.P.D. MAP 100000000 Gumburgle Fr. of	DIV. FIELD 5 Majorville LOCAL-TOWNSHIP 100000000 Webster COUNTY Marshall STATE W. Va. DISTRICT of and	WELL NO. L-1527	
CONTRACTOR TOP HOLE CONTRACTOR ADDRESS 1111 S. Main St Columbus, Ohio	Drilling from 0 Ft. to 1972 Ft.		
CONTRACTOR DRILLING CONTRACTOR ADDRESS 1111 S. Main St Columbus, Ohio (Drilling 2-2-57) Redrilling 1-26-61	Type of Rig as fitted Drilling from 0 Ft. to 1972 Ft.	Type of Rig table tool drilling machine	DATE PURCHASED FOR WELL NO. 1911 No. E-11593
HOLE SIZE BIT GAUGE 18"	FROM TO 0-1097 13 3/8"	150-511 10 1/4"	611-700 2 1/2"
CASING AND TUBING HEIGHT FOOT 484 STEEL GRADE 47	32.75 47	21 47	27 47
(All dimensions less threads) LOGGING TYPE LOGGING DEPTH SETTING DEPTH LEFT IN HOLE	3000 1512 1512	3000 6137 6137	3000 7012 7012
CEMENT NO. OF SACKS TYPE WEIGHT PER SACK	43 1 14.5	225 1 14.5	37 1 14.5
PACKER MANUFACTURER TYPE SIZE SETTING DEPTH			
WELL STIMULATION TREATMENT TYPE DATE AND AMOUNT ZONE TREATED LITH. FLOW PERFORMED BY DATE			
OPEN FLOW TEST DATE RAN 1-23-61 FORMATION FROM 1097 TO 1917 FROM 1911 TO 1917 FROM 1916 TO 1920	TEST TYPE Drift Drift Drift	PRESSURE 13/10" Mercury 1 1/2	OPEN FLOW 721 3
WELLHEAD PRESSURE TESTS DATE TAKEN 1-23-61 FORMATION FROM 0 TO 150	MINUTE PRESSURE - PSIG 1 1/2 1 1/2 1 1/2 1 1/2 1 1/2 1 1/2	WELLHEAD PRESSURE - PSIG 24 HR. ADJ. 500 72 HR. 500 MAX. PRESS. 500 TIME 72 hr.	
MISC. DEPTH MEASUREMENT TAKEN FROM [ ] Dist. at Flow [ ] Ground LOGGED BY DATE LOGGED 1-13-61	DIST. TO GROUND 1950.00 ft.	ELEVATION DATE LOGGED 1-13-61	
REMARKS Attach additional sheets as required by Production Dept. Pittsburgh General Office Verified by Applied by			

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Section

Form PD-442

COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES

2-1-2-2-2

WELL LOG SUMMARY

NO. FILED Majoroville TOWN May Elder COUNTY Marshall WELL NO. L-1527

ORIGIN OF FORMATION DEPTH:  Driller's Log  Service Company Log  Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Notes, Gas, Oil, measured Open Flow, Rock Pressure, etc.)
Pittsburgh Coal	705	713	8	
Lino	737	743	6	
Gas Sand	1251	1256	5	
1st. Salt Sand	1467	1504	37	
2nd. Salt Sand	1516	1541	25	
3rd. Salt Sand	1595	1774	179	
Sig. Lin.	1800	1815	15	
Sig. Layer	1816			Ray Zone determined from Schlumberger
Redrilled to original				1897.
Total depth of well				1st. Ray - 1897' to 1897'
Ray 40 hole drilled				2nd. Ray - 1911' to 1917'
Ray 2 hole drilled				3rd. Ray - 1918' to 1925'
TOTAL DEPTH			292'	

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

4527

WELL RECORD

Quadrangle \_\_\_\_\_ Oil or Gas Well OAS  
Permit No. MAES-344-REDRILL (1910)

Company The Manufacturers Light and Heat Co. Casing and Tubing \_\_\_\_\_ Used in Drilling \_\_\_\_\_ Left in Well \_\_\_\_\_ Packers \_\_\_\_\_  
Address 800 Union Trust Bldg., Pittsburgh 19, Pa. \_\_\_\_\_  
Farm Hay Rider Acres 300 \_\_\_\_\_ Size \_\_\_\_\_ Kind of Packer \_\_\_\_\_  
Location (waters) \_\_\_\_\_ 10 \_\_\_\_\_  
Well No. 14527 Elev 1255.60' \_\_\_\_\_ 10 3/11" \_\_\_\_\_ 1571.0" 1571.9" \_\_\_\_\_  
District Webster County Marshall \_\_\_\_\_ 10 3/11" \_\_\_\_\_ 613.7" 613.7" \_\_\_\_\_  
The surface of tract is owned in fee by \_\_\_\_\_ Address \_\_\_\_\_ \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_ Address \_\_\_\_\_ \_\_\_\_\_  
Drilling commenced September 9, 1959 \_\_\_\_\_  
Drilling completed January 26, 1961 \_\_\_\_\_  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch \_\_\_\_\_  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch \_\_\_\_\_  
Volume \_\_\_\_\_ 721, 249 \_\_\_\_\_ Cu. Ft. \_\_\_\_\_  
Rock Pressure \_\_\_\_\_ 580 \_\_\_\_\_ lbs \_\_\_\_\_ 72 \_\_\_\_\_ hrs. \_\_\_\_\_  
Oil \_\_\_\_\_ \_\_\_\_\_ bbls, per 24 hrs. \_\_\_\_\_  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet \_\_\_\_\_  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet \_\_\_\_\_

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 705 FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Thickness	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal		5	705	710			
Lime		6	737	743			
Gas Sand		46	1350	1396			
1st Salt Sand		59	1447	1506			
2nd Salt Sand		25	1516	1541			
3rd Salt Sand		179	1595	1774			
Big Lime		15	1600	1815			
Big Injun			1815				
Redrilled to original total depth of 1487'							
New 8" hole drilled from 1487' to 1932'				1932			
TOTAL DEPTH							

Pay Zones determined from Schlumberger Surveys.  
1st Pay - 1897' to 1907'  
2nd Pay - 1911' to 1917'  
3rd Pay - 1918' to 1925'

(Over)

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WELL SERVICE, INC.

DATE 11-1-53 19TH FLOOR KANAWHA VALLEY BLDG., CHARLESTON 1, W. VA.

FIELD SERVICE TICKET NO. (DA) 5961

Company W. S. ... Time called for 10:00 AM Time on job 12:00 PM  
 P. O. - Street 2 ... Job started 11:00 AM Finished 1:00 PM  
 City - State ... Working time ... Road Condition ...  
 Team ... Well No. 7004 Tractor Used ...  
 County ... State ... Job No. ...

P 3 B  
104

FIELD SERVICE TICKET NO. (DA) 5961  
 39 270  
 107 195  
 WT  
 Depth

OPERATOR'S WORK DATA

It is mutually agreed by both parties involved that WELL SERVICE, INC. equipment No. 73 is to be used to ... and will operate under their supervision. Our Field Engineer, and his crew will be in a competent and cooperative manner, efficiently operate the equipment and with additional assistance, if needed, to be furnished by the lessee. Due to many unknown and variable conditions, of which we have no mutual knowledge or control, it requires WELL SERVICE, INC. to assume any responsibility toward unsuccessful results or interruption of the operation.

Field Engineer ...  
 Company ... Supervisor ...

Type Operation	Materials	General Charges
Casing pressure cement	Name <u>...</u>	Job <u>...</u> Type <u>...</u>
Casing Balance cement	Type <u>...</u>	Xtra Pumping <u>...</u> Hrs <u>...</u>
Casing Cement Gel-cement	Sp. wt. <u>...</u>	Walt on Job <u>...</u> Ets <u>...</u>
Casing Squeeze cement	Viscosity <u>...</u>	Mileage <u>...</u> R. T. <u>...</u>
Prepare Mud	Temp. <u>...</u>	Tool Rental <u>...</u> Time <u>...</u>
Plugging Gel-cement	Wt per gal <u>...</u>	Material <u>...</u> Name <u>...</u>
Pumping Casing-Tubing	Sp. wt. <u>...</u>	Xtra Unit <u>...</u> Hrs <u>...</u>
Formation Cement Squeeze	Velocity <u>...</u>	Stand By Unit <u>...</u> Type <u>...</u>
Formation Chem. Squeeze	Trans. <u>...</u>	Trans. <u>...</u> Type <u>...</u>
Killing well mud-water	Hole Condition <u>...</u>	Chemical <u>...</u> Gal. <u>...</u>
Supervising special work	Fluid <u>...</u>	Pipeline <u>...</u> Time <u>...</u>
Acidizing	Gas <u>...</u>	CESS <u>...</u> Gal. <u>...</u>
Cement Plug Job	Gas G. <u>...</u>	Snooper <u>...</u> Type <u>...</u>
	Pipe Leaking <u>...</u>	Special Plug <u>...</u> Type <u>...</u>
	Shoe Lining <u>...</u>	Press. Bridge <u>...</u> Type <u>...</u>
Special Tool Used	Temp. <u>...</u>	TOTAL CHARGES <u>2000.00</u>
	Sp. Gr. water <u>...</u>	

Sin Open Hole  
 Total Depth  
 Bridge Top

Acidizing or Chemical Data

Name Formation ...  
 Character Formation ...  
 Gas/Oil Volume ...  
 Rock Pressure ...  
 Type Acid/Chemical ...  
 Gallons ...  
 #1 Stage ... #2 ...  
 Shocked Used ... Gal. ...  
 Snooper Survey Acid or Tool ...  
 1st Pay ...  
 2nd Pay ...  
 Injection Rate ...

COMPLETION REPORT

Normal pump pressure ... Max ... Screen completion at surface ...  
 Return circulation of material ...  
 General Remarks ...

Department of  
 Protection  
 Gas

4705100344P

WELL LOG SUMMARY

LOCATION	COMPANY <b>The Manufacturers Light &amp; Heat Company</b>		DIV. <b>5</b>	FIELD <b>Majorville</b>	WELL NO. <b>L-1527</b>								
	FARM	ACRES <b>300</b>	LEASE NO. <b>19447</b>	DISTRICT - TOWN - TOWNSHIP <b>Webster Marshall W.Va.</b>	STATE								
	TOPO. MAP <b>Cameron</b>	Quadrangle	Ft. _____	of _____	of _____	and _____							
	CONTRACTOR												
CONTRACTOR	TOP HOLE CONTRACTOR	ADDRESS			Drilled from _____ Ft. to _____ Ft.								
	DRILLING CONTRACTOR	ADDRESS <b>William Patten</b>			Type of Rig <b>Redrilled</b> Drilled from <b>0</b> Ft. to <b>1932</b> Ft.								
	CONTRACTOR <b>Millersburg, Ohio</b>				Type of Rig <b>Cable Tool Drilling Machine</b>								
	FIRST RIG COMMENCED (DATE) <b>Redrilling 9-9-59</b> DRILLING COMPLETED (DATE) <b>Redrilling 1-26-61</b> COMPLETED TOTAL DEPTH <b>1932</b> ft. DATE PURCHASED _____ FOR. WELL NO. <b>F-11583</b>												
HOLE SIZE	BIT GAUGE (INCHES)	<b>18"</b>	<b>13"</b>	<b>10"</b>	<b>8"</b>								
	FROM-TO (FEET)	<b>0-158'</b>	<b>158-614'</b>	<b>614'-?</b>	<b>?-1827'</b>								
CASING AND TUBING	SIZE (O.D.)	<b>13 3/8"</b>	<b>10 3/4"</b>	<b>8 5/8"</b>	<b>7"</b>								
	WEIGHT/FOOT	<b>18#</b>	<b>32.75#</b>	<b>24#</b>	<b>20#</b>								
	STEEL GRADE	<b>H-40</b>	<b>H-40</b>	<b>J-55</b>	<b>J-55</b>								
	COUPLING TYPE	<b>Short</b>	<b>Short</b>	<b>Short</b>	<b>Short</b>								
(All Measurements less threads)	SETTING DEPTH	<b>157'9"</b>	<b>613'7"</b>	<b>782'10"</b>	<b>1827'4"</b>								
	LEFT IN HOLE	<b>157'9"</b>	<b>613'7"</b>	<b>?</b>	<b>1827'4"</b>								
CEMENT	NO. OF SACKS	<b>93</b>	<b>225</b>	<b>300</b>	<b>200</b>								
	TYPE	<b>IS</b>	<b>IS</b>	<b>IS</b>	<b>IS</b>								
PACKER	WEIGHT #/GAL.	<b>14.5</b>	<b>15.1</b>	<b>14.5</b>	<b>14.5</b>								
	MANUFACTURER												
	TYPE												
	SIZE												
	SETTING DEPTH												
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								
				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. BLOWN					
	<b>1 23 61</b>	<b>Big Injua Sand</b>	From <b>1897</b> to <b>1907</b> From <b>1911</b> to <b>1917</b> From <b>1918</b> to <b>1926</b>	<b>Orifice</b>	<b>88/10"</b> <b>Mercury</b>	<b>1 1/2</b>	<b>721</b>	<b>3</b>					
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
	<b>1 23 61</b>	<b>Big Injua</b>	<b>0</b>	<b>45</b>	<b>80</b>	<b>150</b>	<b>290</b>	<b>400</b>	<b>595</b>	<b>580</b>	<b>580</b>	<b>580</b>	<b>72 hr.</b>
MISC.	DEPTH MEASUREMENT TAKEN FROM: <input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Ground Other (Specify) <b>Derrick Floor same as Orig. Ground Level</b>				DIST. TO GROUND	ELEVATION							
	LOGGED <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LOGGED BY (COMPANY) <b>Schlumberger</b>				ft. <b>1259.60 G.L.</b>	DATE LOGGED <b>1 13 61</b>						
REMARKS	* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable												
	<b>8 5/8" Csg. - 782'10" Screwed on &amp; Cemented to surface. Bottom of original 8" casing not determined.</b>												
	<b>Work Order 1952-L-1882-5</b>												

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

Verified by David Lambert DIVISION ENGINEER

Approved by \_\_\_\_\_ DIVISION SUPERINTENDENT

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WELL LOG SUMMARY

4705-1003 44P

DIV.	FIELD	FARM	COUNTY	WELL NO.
S	Maferoville	May Elder	Marshall	L-1527

ORIGIN OF FORMATION DEPTHS  Driller's Log  Service Company Log  Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pittsburgh Coal	795	710	5	
Lime	737	743	6	
Gas Sand	1352	1396	46	
1st. Salt Sand	1447	1506	59	
2nd. Salt Sand	1526	1541	25	
3rd. Salt Sand	1595	1774	179	
Big Lime	1800	1815	15	
Big Injms	1815			Pay Zones determined from Schlumberger
Redrilled to original				Surveys.
total depth of <sup>1487'</sup> <del>2142'</del>				1st. Pay - 1897' to 1907'
New 8" hole drilled				2nd. Pay - 1911' to 1917'
from 1887' to 1932'				3rd. Pay - 1918' to 1926'
TOTAL DEPTH		1932		

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NOTICE OF WELL STATUS CHANGE

4705100344P

COMPANY <b>The Manufacturers Plant &amp; Heat Company</b>		FIELD <b>Waynesville</b>	DIV. <b>5</b>	FOREIGN WELL NO. (if any) <b>P-14581</b>	COMPANY WELL NO. <b>L-1527</b>
FARM NAME <b>May Elder</b>	WELL ON FARM	TOWNSHIP-TOWN-DISTRICT <b>Waynes</b>	COUNTY <b>Marshall</b>	STATE <b>W. Va.</b>	LEASE-DEED NO. <b>19447</b>
				ACRES <b>300</b>	EFFECTIVE DATE <b>1-26-61</b>

STATUS PRIOR TO THIS REPORT	<input type="checkbox"/> DRILLING WELL	<input type="checkbox"/> Production <input type="checkbox"/> Storage	Remarks
	<input type="checkbox"/> ACTIVE WELL	<input type="checkbox"/> Production <input type="checkbox"/> Storage	
	<input checked="" type="checkbox"/> ABANDONED WELL		
WELL STATUS CHANGE OR WORK PERFORMED	<input checked="" type="checkbox"/> COMPLETED	<input type="checkbox"/> Gas <input type="checkbox"/> Dry	
	<input checked="" type="checkbox"/> REDRILLED FOR STORAGE		
	<input type="checkbox"/> RECONDITIONED		
	<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		

DRILLED TO 1932 feet Redrilled to 219 feet into Big Intan sand

PLUGGED BACK  NO  YES  
If Yes, to depth of \_\_\_\_\_ feet \_\_\_\_\_ 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 _____ inches <input type="checkbox"/> Mercury <input type="checkbox"/> Water or _____ psig through _____ inch opening after blowing _____ hours	ROCK PRESSURE _____ psig in _____ hours
	TEST	FINAL READING	TYPE OF GAUGE <input checked="" type="checkbox"/> Orifice Well Tester <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Other (Specify) _____
		GAUGE READING <u>88/10</u> inches <input checked="" type="checkbox"/> Mercury <input type="checkbox"/> Water or _____ psig through <u>1 1/2</u> inch opening after blowing <u>3</u> hours	ROCK PRESSURE _____ psig in _____ hours
		FLOW <u>721, 219</u> cubic feet per day	ROCK PRESSURE <u>500</u> psig in <u>72</u> hours

AUTHORIZATION FOR WORK PERFORMED	<input type="checkbox"/> Well Order Number _____ Budget No. _____	For General Office Use		
	<input checked="" type="checkbox"/> Work Order Number <u>1952-1-1082-5</u>	DEPARTMENT	SECTION	NOTED BY
	<input type="checkbox"/> Abandonment Order Number _____	PRODUCTION	Geology	
WORK PERFORMED BY	MACHINE NUMBER OR CONTRACTORS NAME <u>Mr. H. Patton</u>		Storage	
			Clerical	
			Map	

Compiled By _____	Date _____	LAND OPERATING _____
Approved By _____	Date _____	TREASURY
		Land Accounting
DIVISION SUPERINTENDENT		Plant Accounting
		CIVIL ENGINEERING _____

Return to Land Operating Department 04/29/2016

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle CAMERON

Permit No. MARS-344-REDRILL

WELL RECORD

Oil or Gas Well Storage GAS  
(KIND)

Company The Manufacturers Light and Heat Co.  
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.  
Farm May Elder Acres 300  
Location (waters) \_\_\_\_\_  
Well No. L-4527 Elev. 1259.60'  
District Webster County Marshall  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced September 9, 1959  
Drilling completed January 26, 1961  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
88 /10ths Merc. in  $1\frac{1}{2}$  Inch  
Volume 721,249 Cu. Ft.  
Rock Pressure 580 lbs. 72 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet

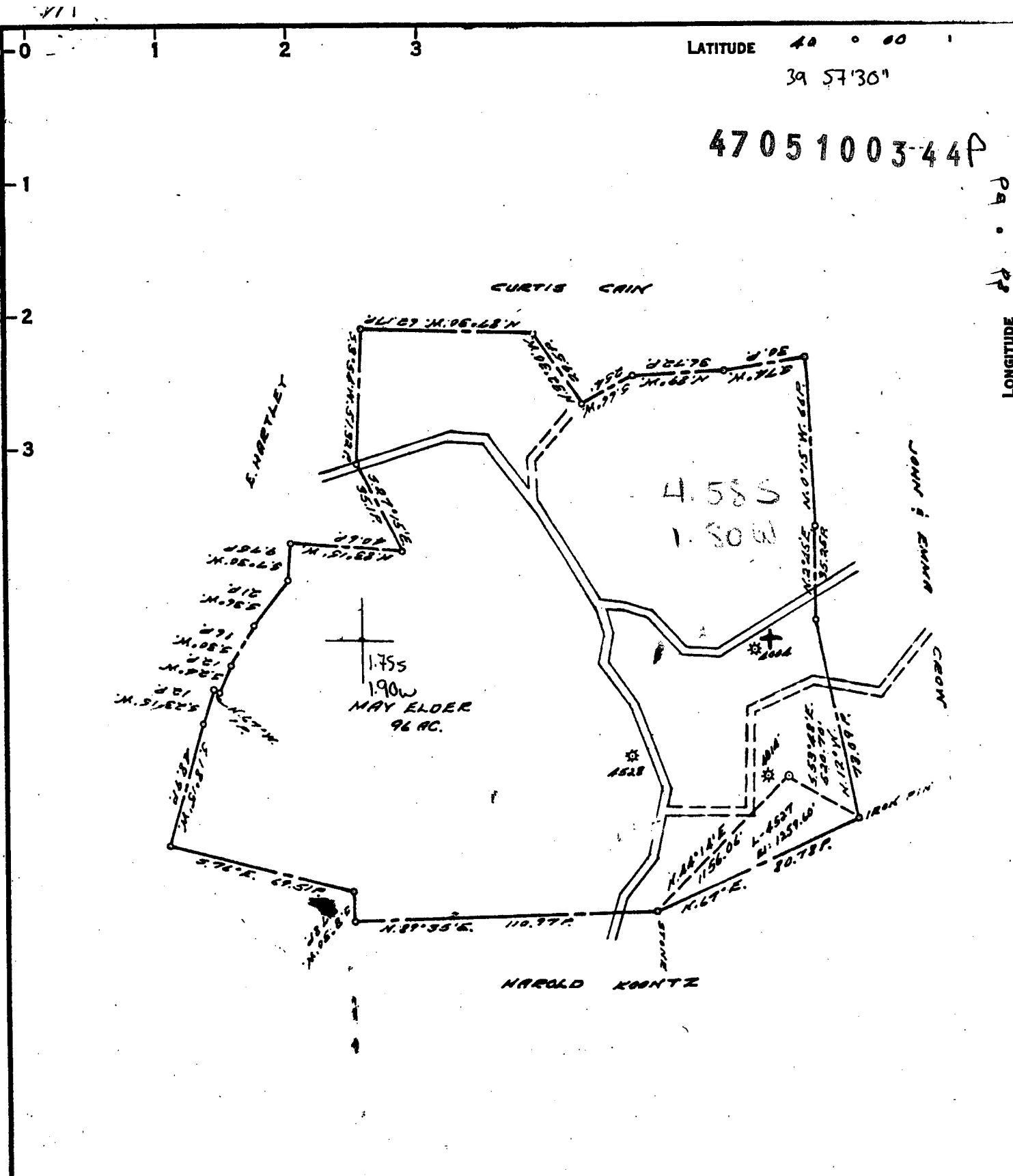
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	157'9"	157'9"	
10 3/4"	613'7"	613'7"	Size of
8 5/8"	72'10"	?	
6 7/8"	1827'4"	1827'4"	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT 705 FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_  
FEET INCHES FEET INCHES  
\_\_\_\_\_  
FEET INCHES FEET INCHES

Formation	Color	Thick of / Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
		THICKNESS					
✓ Pittsburgh Coal		5	705	710			
✓ Lime		6	737	743			
✓ Gas Sand		46	1350	1396			
✓ 1st Salt Sand		59	1447	1506			
✓ 2nd Salt Sand		25	1516	1541			
✓ 3rd Salt Sand		179	1595	1774			
✓ Big Lime		15	1800	1815			
✓ Big Injun			1815				
Redrilled to original total depth of 1487'					Pay Zones determined from Schlumberger Surveys.		
New 8" hole drilled from 1487' to 1932'					1st Pay - 1897' to 1907'		
TOTAL DEPTH				1932	2nd Pay - 1911' to 1917'		
					3rd Pay - 1918' to 1926'		

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WV Department of Environmental Protection



COAL OWNED BY \_\_\_\_\_  
 RECONDITION \_\_\_\_\_  
 NEW LOCATION   
 DRILL DEEPER   
 ABANDONMENT

0-25-10

COMPANY THE MANUFACTURERS LIGHT & HEAT  
 ADDRESS 800 UNION TRUST BLDG. PGM. PA.  
 FARM MAY ELDER  
 TRACT \_\_\_\_\_ ACRES 300 LEASE NO. 19447  
 WELL (FARM) NO. 3 SERIAL NO. 4527  
 ELEVATION (SPIRIT LEVEL) 1259.60'  
 QUADRANGLE CAMERON - NE  
 COUNTY MARSHALL DISTRICT WEBSTER  
 ENGINEER W. G. Trotter M.  
 ENGINEER'S REGISTRATION NO. 9442  
 FILE NO. \_\_\_\_\_ DRAWING NO. Y-15-903  
 DATE 25 FEB. 1959 SCALE 1" = 800'

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

WELL LOCATION **MAILED**  
 RECORDED  
 Office of Oil and Gas  
 File No. TRARS. DIV. 04/29/2016  
 (Storage)  
 APR 13 2016

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPO-  
 GRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE  
 LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL  
 TRACING.

9-0 22

4705100344P

1) Date: March 11, 2016  
2) Operator's Well No. SGW-111  
3) API Well No. 47-51-00344  
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 Brian K. Milliken ✓  
Address 1018 Chinaberry Rd,  
Clearwater FL 33764

(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 *Mason Smith 3-29-16*  
Its Project Engineer  
Address 6126 Energy Road  
Moundsville, WV 26041  
Telephone (304) - 843 - 3565

Subscribed and sworn before me this 30<sup>th</sup> day of March, 20 16

Joseph E. Williams Notary Public

Marshall County, State of West Virginia

My commission expires June 5<sup>th</sup>, 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](mailto:depprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection  
04/29/2016



470510034

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 of Wheeling Creek Quadrangle Majorsville, WV-PA

Elevation 1261.09' 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 3-29-16

Company Official (Typed Name) Mason Smith

Company Official Title Project Engineer

Subscribed and sworn before me this 30th day of March, 20 16

Joseph E Williams

My commission expires June 5th 2024

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OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC

WV Department of Environmental Protection  
Moundsville, WV 26041  
My Commission Expires 04/29/2016

4705100344P

**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*

April 1, 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

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Environmental Protection

04/29/2016

Consolidation Coal Company  
Northern West Virginia Operations

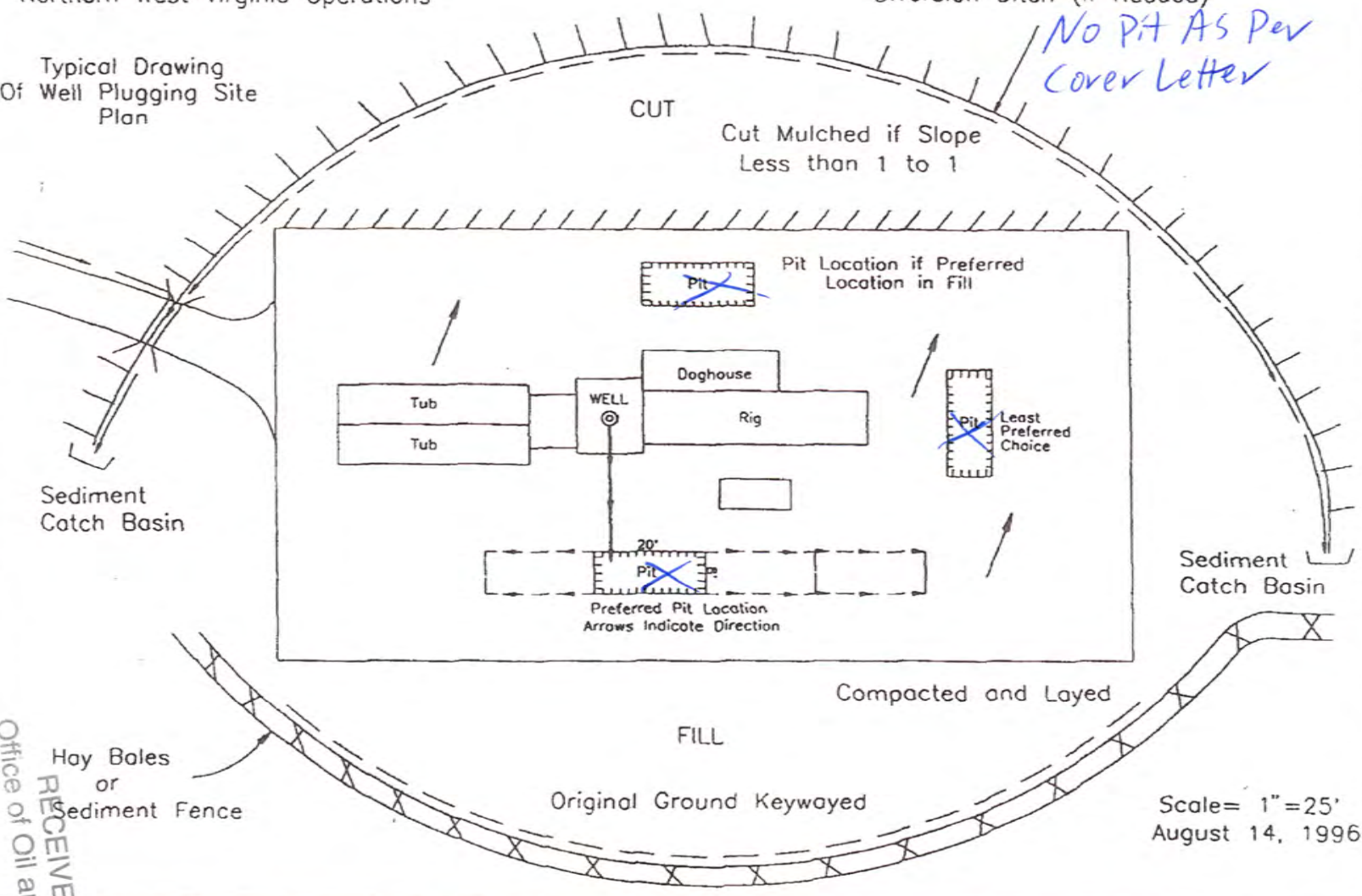
Typical Drawing  
Of Well Plugging Site  
Plan

Diversion Ditch (If Needed)

*No Pit As Per  
Cover Letter*

CUT

Cut Mulched if Slope  
Less than 1 to 1



Sediment  
Catch Basin

Sediment  
Catch Basin

Preferred Pit Location  
Arrows Indicate Direction

Compacted and Layed

FILL

Original Ground Keywayed

Scale = 1" = 25'  
August 14, 1996

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 WELL# SGW-111

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 Environmental Protection  
 04/29/2016



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

API: 47-051-00344 WELL NO.: SGW-111

FARM NAME: May Elder

RESPONSIBLE PARTY NAME: Consolidation Coal Company

COUNTY: Marshall DISTRICT: Webster

QUADRANGLE: Majorsville, WV PA

SURFACE OWNER: Brian K Milliken

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,420,441 m

UTM GPS EASTING: 539,658 m GPS ELEVATION: 384 m (1261.')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

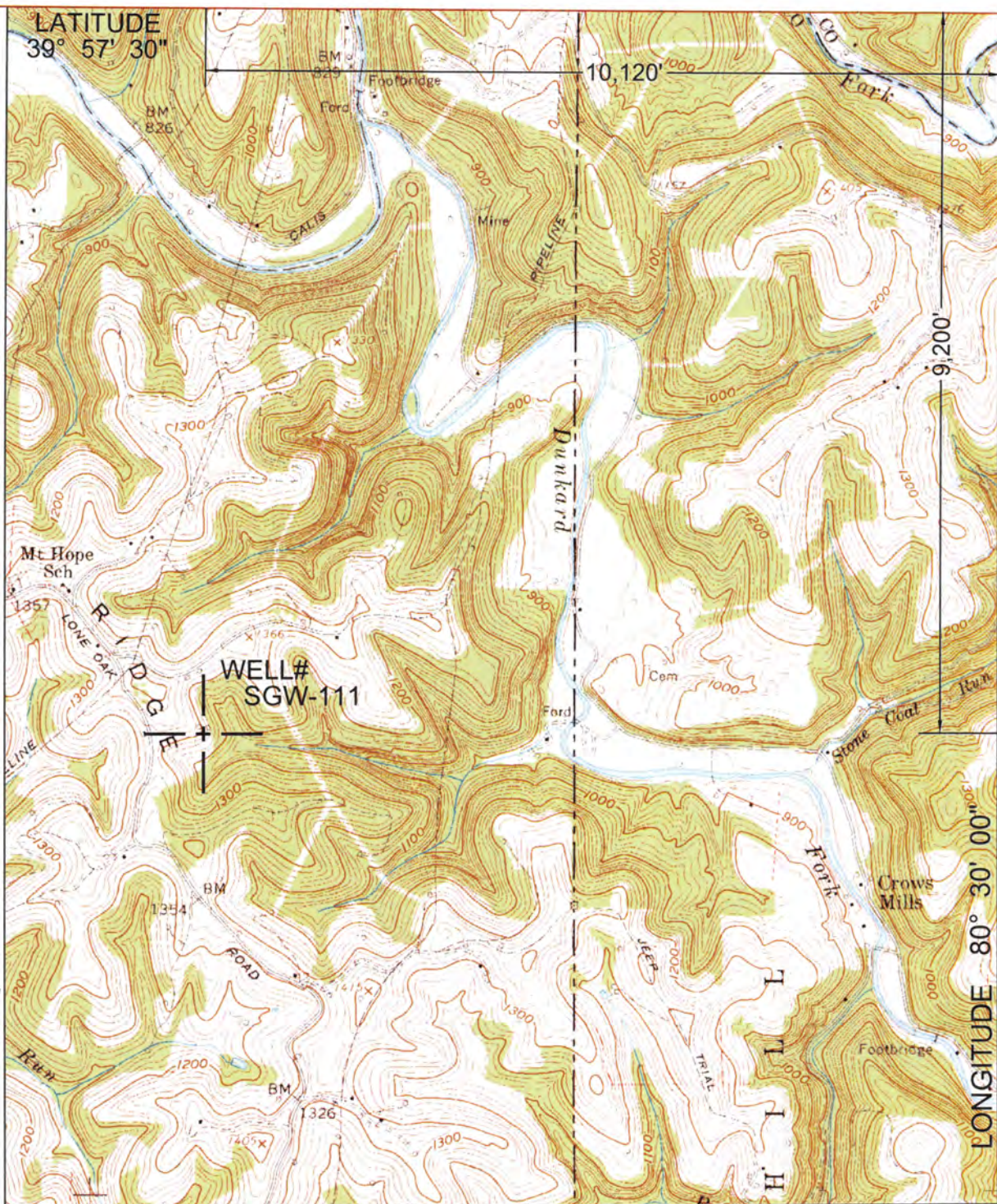
- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:  
Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_  
Real-Time Differential \_\_\_\_  
Mapping Grade GPS X: Post Processed Differential X  
Real-Time Differential \_\_\_\_

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

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

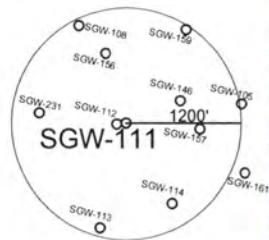
[Signature]  
Signature  
March 11, 2016  
Date

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Office of Oil and Gas  
Professional Surveyor  
Title  
APR 13 2016



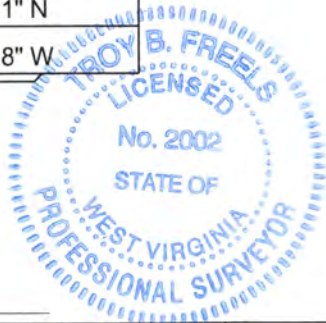
NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,420,441 METERS	39° 55' 59.1" N
EASTING 539,658 METERS	80° 32' 09.8" W

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



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

DATE MARCH 11, 20 16

OPERATORS WELL NO. SGW-111

API WELL NO. 47 - 51 - 00344P  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 2500  
FILE NO.: MAJORSVILLE6.DWG  
PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.  
SCALE: 1"=2000'

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



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

LOCATION: ELEVATION: 1261.09' WATERSHED: DUNKARD FORK OF WHEELING CREEK  
DISTRICT: WEBSTER COUNTY: MARSHALL QUADRANGLE: MAJORSVILLE, WV PA 7.5'  
SURFACE OWNER: BRIAN K. MILLIKEN ACREAGE: 96± ACRES  
ROYALTY OWNER: \_\_\_\_\_ LEASE ACREAGE: \_\_\_\_\_  
PROPOSED WORK: \_\_\_\_\_ LEASE NO.: \_\_\_\_\_  
DRILL: \_\_\_\_\_ CONVERT: \_\_\_\_\_ DRILL DEEPER: \_\_\_\_\_ REDRILL: \_\_\_\_\_ FRACTURE OR STIMULATE: \_\_\_\_\_ PLUG OFF OLD: \_\_\_\_\_  
FORMATION: \_\_\_\_\_ PERFORATE NEW FORMATION: \_\_\_\_\_ PLUG AND ABANDON:  CLEAN OUT AND REPLUG: \_\_\_\_\_ OTHER: \_\_\_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_ TARGET FORMATION: NONE  
ESTIMATED DEPTH: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
APR 29 2016  
WV Department of Environmental Protection

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

COUNTY NAME PERMIT

LATITUDE  
39° 57' 30"

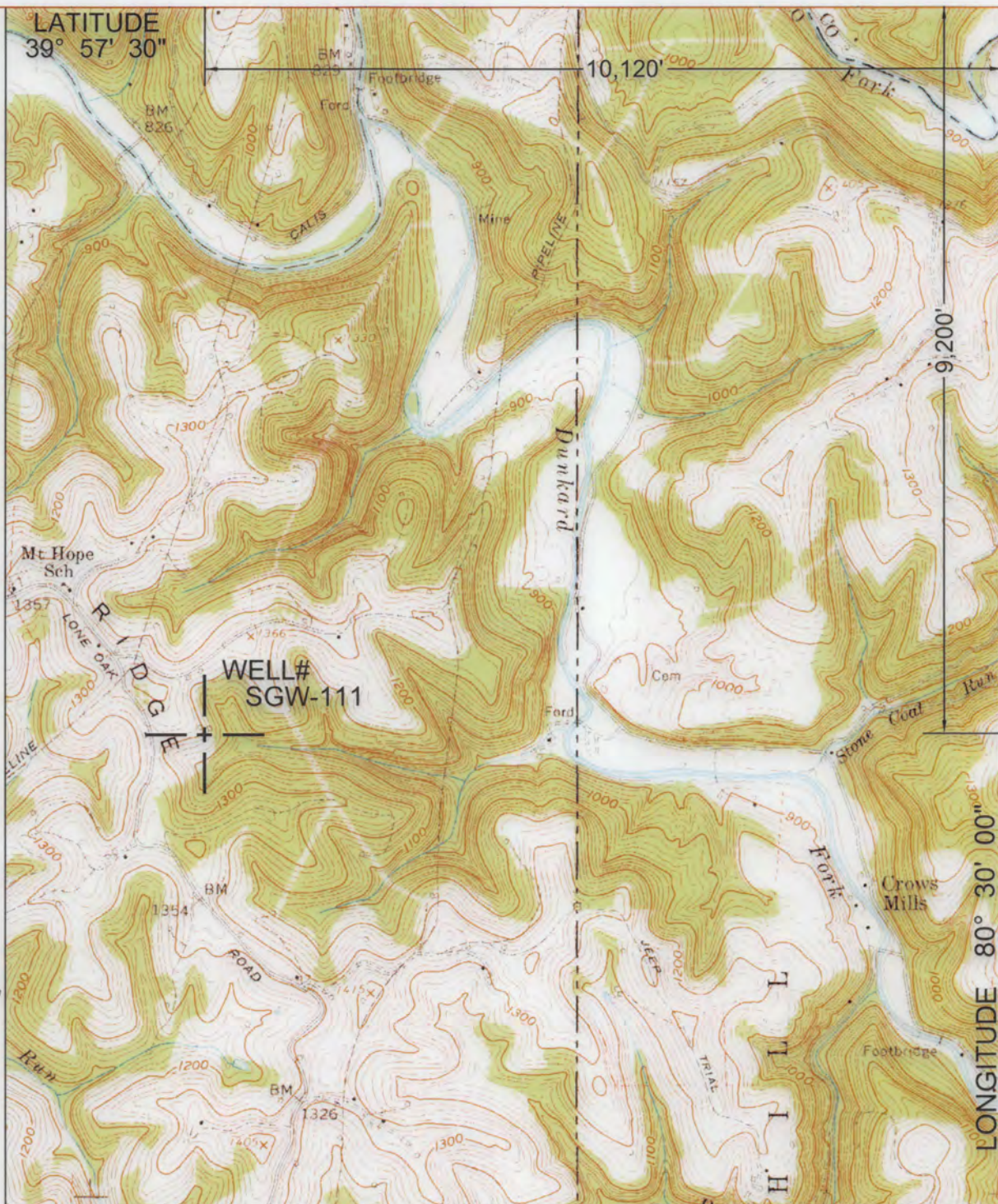
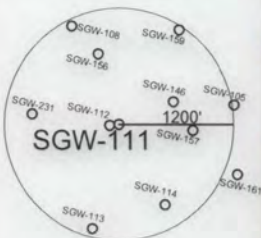
10,120'

9,200'

LONGITUDE 80° 30' 00"

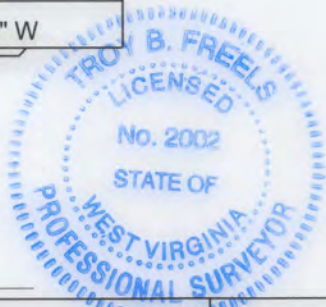
NORTH

SURROUNDING WELLS  
WITHIN 1200' RADIUS



UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,420,441 METERS	39° 55' 59.1" N
EASTING 539,658 METERS	80° 32' 09.8" W

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P.S.  
2002



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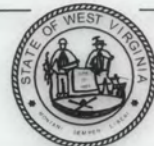
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ROYALTY OWNER: \_\_\_\_\_ LEASE ACREAGE: \_\_\_\_\_  
PROPOSED WORK: \_\_\_\_\_ LEASE NO.: 04/29/2016  
DRILL: \_\_\_\_\_ CONVERT: \_\_\_\_\_ DRILL DEEPER: \_\_\_\_\_ REDRILL: \_\_\_\_\_ FRACTURE OR STIMULATE: \_\_\_\_\_ PLUG OFF OLD: \_\_\_\_\_  
FORMATION: \_\_\_\_\_ PERFORATE NEW FORMATION: \_\_\_\_\_ PLUG AND ABANDON:  CLEAN OUT AND REPLUG: \_\_\_\_\_ OTHER: \_\_\_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY): \_\_\_\_\_ TARGET FORMATION: NONE  
ESTIMATED DEPTH: \_\_\_\_\_

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

COUNTY NAME

PERMIT