west virginia department of environmental protection

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

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

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 penalities 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

4705100344P

PERMIT CONDITIONS

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

CONDITIONS

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

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

4705100344

1.) Date: March 11, 20 16.
2.) Operator's Well No. SGW-111.
3.) API Well No. 47 - 51 - 00344.
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 ____ / 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.

Address 1 Bridge St.

Monongah, WV 26554

7.) DESIGNATED AGENT Ronnie Harsh.

Address 1 Bridge St.

Monongah, WV 26554.

8.) OIL & GAS INSPECTOR TO BE NOTIFIED

Name Eric Blend

Address PO BOX 2115

Wheeling, WV 26003

9.) PLUGGING CONTRACTOR

Name ____.

Address ____.

____.

10.) WORK ORDER: The work order for the manner of plugging this well is as follows: 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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4705100344P

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:

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 inby the well a sufficient distance to permit adequate ventilation around the area of the wellbore.

(o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.

(p) The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.

(q) MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.

(r) A copy of the petition shall be maintained at the mine and be available to the miners.

(s) The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.

(t) Within 60 days after this Proposed Decision and Order becomes final, the Petitioner shall submit proposed revisions for their approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the alternative method stated in the petition and the special terms and conditions stated in the Proposed Decision and Order.

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

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days, a request with the Administrator for Coal Mine Safety and Health, 4015 Wilson Boulevard, Arlington, Virginia 22203.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

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

4705100344P

Certificate of Service

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

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

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

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

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

Mary Ann Griffin

MARY ANN GRIFFIN
Mine Safety Clerk

4705100344P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Quadrangle

Permit No. MARS-344-DRILL

Oil or Gas Well GAS (KIND)

Company The Manufacturers Light and Heat Co.
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm May Elder Acres 300
Location (water)
Well No. L-1-24 Elev. 2[illegible]
District Wheeling 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 Maths Water in Inch
Bbls. 10th Merc. in 1½ Inch
Volume 721,289 Cu. Ft.
Rock Pressure 500 lbs. 72 hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet feet
Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	157'[illegible]"	157'[illegible]"	
10 3/4"	[illegible]	[illegible]	Size of
8/[illegible]	22[illegible]"	[illegible]	
[illegible]	[illegible]	[illegible]	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	~~[illegible]~~	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
		THICKNESS					
Pittsburgh Coal		5	705	710			
Lime		6	737	743			
Gas Sand		16	1350	1396			
1st Salt Sand		59	1447	1506			
2nd Salt Sand		25	1516	1541			
3rd Salt Sand		179	1[illegible]	1774			
Big Lime		15	1000	1815			
Big Injun			1815				
Redrilled to original total depth of 1407' new 8" hole drilled from 1407' to 1932' TOTAL DEPTH				1932			

Pay Zones determined from Schlumberger Surveys.
1st Pay - 1897' to 1907'
2nd Pay - 1911' to 1917'
3rd Pay - 1918' to 192[illegible]'

1932'

(Over)

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[illegible] Section

4705100344f

Form PD-4a

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

1 of 2 Sheets

LOCATION

COMPANY: The Manufacturers Light & Heat Company — FIELD: Majorsville — WELL NO: L-1527

FARM: Ray Miller — ACRES — LEASE NO. — DISTRICT: Webster — TOWN — TOWNSHIP — COUNTY: Marshall — STATE: W.Va.

TOPO MAP: Cameron — Quadrangle — Ft. — of — Ft. — of — Feet

CONTRACTOR

TOP HOLE CONTRACTOR — ADDRESS — CONTRACTOR — Drilling from — Ft. to — Ft.

DRILLING CONTRACTOR: Dillon Tatton — ADDRESS: Millersburg, Ohio — Type of Rig — Drilled from 0 Ft. to 1933 Ft.

Type of Rig: Cable Tool — DATE PURCHASED: Mach. — FOR WELL NO.

DRILLING COMMENCED: Spudrilling 9-2-59 — DRILLING COMPLETED: Redrilling 1-26-61 — TOTAL DEPTH: 1933 — L-1593

HOLE SIZE

BIT GAUGE REMARKS		18"	13"	10"	OH
FROM – TO	Ft.	0-153'	150-613'	611'-1933'	1933'

CASING AND TUBING

SIZE		13 3/8"	10 3/4"	8 5/8"	7"
WEIGHT PER FOOT		48#	32.75#	24#	23#
STEEL OR WELD		Weld	Weld	Weld	Weld
COUPLING TYPE		Smooth	Smooth	Smooth	Smooth
SETTING DEPTH		153'	613'	1933'	1933'
LEFT IN WELL		153'	613'	1933'	1933'

CEMENT

NO. OF SACKS		93	325	375	250
TYPE		Class A	Class A	Class A	Class A
WEIGHT LBS/GAL		15.6	15.6	15.6	15.6

PACKER

MANUFACTURER — TYPE — SIZE — SETTING DEPTH

WELL STIMULATION

TREATMENT TYPE	DATE	AMOUNT	ZONE TREATED	LIQUID FLOW PER 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 MCF/D	DAY	HRS. FLOW
	Big Injun	From 1897 to 1907	Orifice	93/10"	1 1/2	721	3	
1-23-61	Injun	From 1911 to 1917		Mercury				
	Gord	From 1918 to 1926						
		From — to						

WELLHEAD PRESSURE TESTS

DATE TAKEN	FORMATION	MINUTE PRESSURE – PSIG 1	3	5	10	20	30	WELLHEAD PRESSURE – PSIG 24 HR.	ALL HR.	72 HR.	MAX. PRESS	TIME
1-23-61	Big Injun	0	45	81	150	290	470	695	680	680	695	72 hr.

MISC.

DEPTH MEASURED FROM: [X] Derrick Floor [ ] Ground — Other (Specify) Derrick floor same as ground level — DIST. TO GROUND — ELEVATION: 1959.60 G.L.

LOGGED: [X] Yes [ ] No — LOGGED BY (COMPANY) — DATE LOGGED: 1-31-61

* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable

REMARKS

Attach additional sheets if necessary. Production Dept. Pittsburgh General Office

Verified by — SUPERVISOR — Approved by — DIVISION SUPERINTENDENT

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Form PD-440

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

2 of 2 Sheets

DIV	FIELD	FARM	COUNTY	WELL NO.
5	Majorsville	May Elder	Marshall	L-4527

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

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pittsburgh Coal	705	710	5	
Lime	737	743	6	
Gas Sand	1250	1296	46	
1st. Salt Sand	1447	1506	59	
2nd. Salt Sand	1516	1541	25	
3rd. Salt Sand	1595	1774	179	
Big Lime	1800	1815	15	
Big Injun	1815			Pay Zones determined from Schlumberger
Redrilled to original				surveys.
total depth of 1887'				1st. Pay – 1897' to 1907'
New 8" hole drilled				2nd. Pay – 1911' to 1917'
from 1887' to 1932'				3rd. Pay – 1918' to 1925'
TOTAL DEPTH		1932'		

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4527

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Quadrangle _____

Permit No. MAES-344-REDRILL

Oil or Gas Well 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. 1255.60'
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 1½ Inch
Volume 721,249 Cu. Ft.
Rock Pressure 580 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	157'9"	157'9"	
10 3/4"	613'7"	613'7"	Size of
8/4 5/8"	72'10"	?	
8/4 7"	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	Thickness	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' New 8" hole drilled from 1487' to 1932'							
TOTAL DEPTH				1932			

Pay Zones determined from Schlumberger Surveys.
1st Pay - 1897' to 1907'
2nd Pay - 1911' to 1917'
3rd Pay - 1918' to 1926'

(Over)

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WELL SERVICE, INC.

19TH FLOOR KANAWHA VALLEY BLDG., CHARLESTON 1, W. VA.

DATE

FIELD SERVICE TICKET NO. (DA) 5961

Company — Time called for — Time on job

P. O. - Street — Job started — Finished

City - State — Waiting time — Road Condition

Lease — Well No. — Tractor Used

County — State — Customer — Unit No.

Casing Size — Wt. — Depth

Size Open Hole — Total Depth — Bridge Top

OPERATOR'S WORK DATA

It is mutually agreed by both parties involved that WELL SERVICE, INC., equipment No. is loaned to and will operate under their supervision. Our Field Engineer, and his crew will, 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. not to assume any responsibility toward successful results or interruption of the operation.

Field Engineer — Crew

Company — Supervisor

Type Operation:

- Casing pressure cement
- Casing Squeeze cement
- Casing Comb. Gel-cement
- Casing Squeeze cement
- Prepare Mud
- Plugging Gel-cement
- Pumping Casing-Tubing
- Formation Cement Squeeze
- Formation Chem. Squeeze
- Killing well mud-water
- Supervising special tools
- Additional
- Cement Plug Set

Special Tool Used

Materials:

Name — Type — Sacks — Gallons — Wt. per gal. — Ad-mix — Sp. wt. — Viscosity — Temp.

Hole Condition:

Fluid — Gas @ — Gas @ — Pipe leaking — Shoe leaking — Temp. — Sp. Gr. water

General Charges:

Job — Type
Extra Pumping — Hrs.
Wait on Job — Hrs.
Mileage — R. T.
Tool Rental — Time
Material — Name
Extra Units — Hrs.
Stand By Unit — Type
Trans. — Type
Chemical — Gals.
Pipeline — Time
TEST — Gals.
Sweeper — Type
Special Plugs — Type
Press. Bridge — Type

TOTAL CHARGES

COMPLETION REPORT

Normal pump pressure — Max. — Return circulation at surface

Return circulation of materials

General Remarks

Acidizing or Chemical Data

Name Formation
Character Formation
Gas/Oil Volume
Rock Pressure
Type Acid/Chemical
Gallons — %
#1 Stage — #2
Inserted Used — Gals.
Sweeper Survey Acid or Frac
1st Pay
2nd Pay
Injection Rate

47051003440

Form PD-44a

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

47051003440

1 of 2 Sheets

LOCATION

COMPANY	DIV.	FIELD	WELL NO.
The Manufacturers Light & Heat Company	5	Majorsville	L-4527

FARM	ACRES	LEASE NO.	DISTRICT - TOWN - TOWNSHIP	COUNTY	STATE
May Elder	300	19447	Webster	Marshall	W.Va.

TOPO. MAP: Cameron Quadrangle ____ Ft. ____ of ____ ° ____ / and ____ Ft. ____ of ____ ° ____ /

CONTRACTOR

TOP HOLE CONTRACTOR — CONTRACTOR: ____ ADDRESS: ____ Drilled from ____ Ft. to ____ Ft. Type of Rig ____

DRILLING CONTRACTOR — CONTRACTOR: William Patten ADDRESS: Millersburg, Ohio Redrilled Drilled from 0 Ft. to 1932 Ft. Type of Rig Cable Tool Drilling Machine

FIRST RIG COMMENCED (DATE)	DRILLING COMPLETED (DATE)	COMPLETED TOTAL DEPTH	DATE PURCHASED	FOR. WELL NO.
Redrilling 9-9-59	Redrilling 1-26-61	1932 ft.		F-14583

HOLE SIZE	BIT GAUGE (INCHES)	18"	13"	10"	8"	
	FROM–TO (FEET)	0-158'	158-614'	614'- ?	? - 1827'	
CASING AND TUBING (All Measurements less threads)	SIZE (O.D.)	13 3/8"	10 3/4"	8 5/8"	7"	
	WEIGHT/FOOT	48#	32.75#	24#	20#	
	STEEL GRADE	H-40	H-40	J-55	J-55	
	COUPLING TYPE	Short	Short	Short	Short	
	SETTING DEPTH	157'9"	613'7"	782'10"	1827'4"	
	LEFT IN HOLE	157'9"	613'7"	?	1827'4"	
CEMENT	NO. OF SACKS	93	225	300	200	
	TYPE	IS	IS	IS	IS	
	WEIGHT #/GAL.	14.5	15.1	14.5	14.5	
PACKER	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	OPEN FLOW HRS. SHUT-IN
1 23 61	Big Injun	From 1897 to 1907	Orifice	88/10" Mercury	1½	721	3
	Sand	From 1911 to 1917					
		From 1918 to 1926					

WELLHEAD PRESSURE TESTS

DATE TAKEN	FORMATION	MINUTE PRESSURE – PSIG 1	3	5	10	20	30	WELLHEAD PRESSURE – PSIG 24 HR.	48 HR.	72 HR.	MAX. PRESS.	TIME
1 23 61	Big Injun	0	45	80	150	290	400	595	580	580	580	72 hr.

MISC.

DEPTH MEASUREMENT TAKEN FROM: ☑ Derrick Floor ☐ Ground Other (Specify) Derrick Floor same as Orig. Ground Level — DIST. TO GROUND ____ ft. — ELEVATION 1259.60 G.L.

LOGGED ☑ Yes ☐ No — LOGGED BY (COMPANY) Schlumberger — DATE LOGGED 1 13 61

* Note: Form PD-17 "Well Fracture Report" to be completed and attached, if applicable

REMARKS

8 5/8" Csg. – 782'10" Screwed on & Cemented to surface. Bottom of original 8" casing not determined.

Work Order 1952-1-1882-5

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

Verified by David Lambert DIVISION ENGINEER

Approved by ____ DIVISION SUPERINTENDENT

Form PD-44b

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

47052~~1~~00344P

DIV.	FIELD	FARM	COUNTY	WELL NO.
5	Majorsville	May Elder	Marshall	~~1~~-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	705	710	5	
Lime	737	743	6	
Gas Sand	1350	1396	46	
1st. Salt Sand	1447	1506	59	
2nd. Salt Sand	1516	1541	25	
3rd. Salt Sand	1595	1774	179	
Big Lime	1800	1815	15	
Big Injun	1815			Pay Zones determined from Schlumberger
Redrilled to original				Surveys.
total depth of ~~2000'~~ 1497'				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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Environmental Protection

Form PD-34

COLUMBIA GAS SYSTEM – PITTSBURGH GROUP COMPANIES (Rev. 11-59)

NOTICE OF WELL STATUS CHANGE 47051003448

COMPANY	FIELD	DIV.	FOREIGN WELL NO. (if any)	COMPANY WELL NO.
The Manufacturers Light & Heat Company	Majorsville	5	F-14583	L-4527

FARM NAME	WELL ON FARM	TOWNSHIP-TOWN-DISTRICT	COUNTY	STATE	LEASE-DEED NO.	ACRES	EFFECTIVE DATE
May Elder		Webster	Marshall	W.Va.	19447	300	7-26-61

STATUS PRIOR TO THIS REPORT

- ☐ DRILLING WELL — ☐ Production ☐ Storage
- ☐ ACTIVE WELL — ☐ Production ☐ Storage
- ☒ ABANDONED WELL

WELL STATUS CHANGE OR WORK PERFORMED

- ☒ COMPLETED — ☐ Gas ☐ Dry
- ☒ REDRILLED FOR STORAGE
- ☐ RECONDITIONED
- ☐ RECONDITIONED & TRANSF. TO STORAGE
- ☐ TRANSFERRED TO — ☐ Production ☐ Storage
- ☐ PURCHASED FOR — ☐ Production ☐ Storage
- ☐ DRILLED DEEPER
- ☐ PLUGGED AND ABANDONED
- ☐ SOLD

Remarks

DRILLED TO Redrilled to 1932 feet into Big Injun 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 FLOW TEST — BEFORE TREATMENT (If applicable)

TYPE OF GAUGE ☐ Orifice Well Tester ☐ Pitot Tube ☐ Other (Specify) ____

GAUGE READING ____ inches ☐ Mercury ☐ Water or ____ psig through ____ inch opening after blowing ____ hours

FLOW ____ cubic feet per day ROCK PRESSURE ____ psig in ____ hours

OPEN FLOW TEST — FINAL READING

TYPE OF GAUGE ☒ Orifice Well Tester ☐ Pitot Tube ☐ Other (Specify) ____

GAUGE READING 88/10 inches ☒ Mercury ☐ Water or ____ psig through 1½ inch opening after blowing 3 hours

FLOW 721,249 cubic feet per day ROCK PRESSURE 580 psig in 72 hours

AUTHORIZATION FOR WORK PERFORMED

- ☐ Well Order Number ____ Budget No. ____
- ☒ Work Order Number 1952-L-1882-5
- ☐ Abandonment Order Number ____

WORK PERFORMED BY

MACHINE NUMBER OR CONTRACTORS NAME: Wm. H. Patton

Compiled By ____ Date ____

Approved By ____ DIVISION SUPERINTENDENT Date ____

For General Office Use

DEPARTMENT	SECTION	NOTED BY	DATE
PRODUCTION	Geology		
	Storage		
	Clerical		
	Map		
LAND OPERATING			
TREASURY	Land Accounting		
	Plant Accounting		
CIVIL ENGINEERING			

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Return to Land Operating Department for filing

OG-10

47051003 44P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Quadrangle CAMERON

Permit No. MARS-344-REDRILL

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 1½ Inch
Volume 721,249 Cu. Ft.
Rock Pressure 580 lbs. 72 hrs.
Oil bbls., 1st 24 hrs.
Fresh water feet feet
Salt water feet feet

Casing and Tubing Size	Used in Drilling	Left in Well	Packers
16			Kind of Packer
13 3/8"	157'9"	157'9"	
10 3/4"	613'7"	613'7"	Size of
8¼ 5/8"	782'10"	?	
6¼ 7"	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	Hard or 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		Pay Zones determined from Schlumberger Surveys.		
Redrilled to original total depth of 1487'					1st Pay - 1897' to 1907'		
New 8" hole drilled from 1487' to 1932'					2nd Pay - 1911' to 1917'		
TOTAL DEPTH				1932	3rd Pay - 1918' to 1926'		

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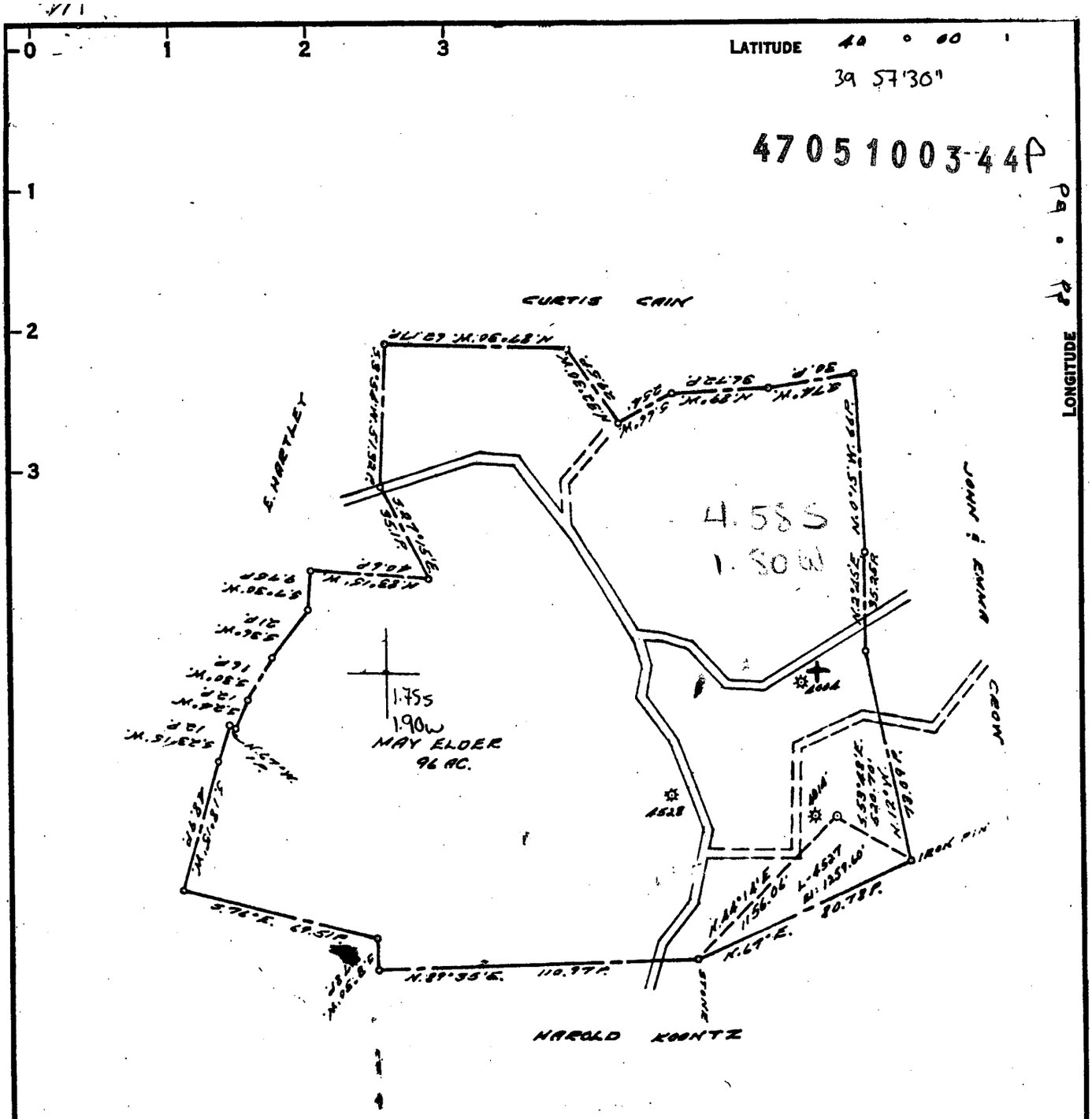
(Over)

LATITUDE 40 ° 00 '

39 57'30"

47051003-44P



COAL OWNED BY RECONDITION

NEW LOCATION ☐

DRILL DEEPER ☐

ABANDONMENT ☐

0-25-10

COMPANY THE MANUFACTURERS LIGHT & HEAT

ADDRESS 800 UNION TRUST BLDG. PGH. 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 A.G. Streator 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 MAP

FILE NO. MARS-[illegible] (Storage)

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+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC 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.

NO. 156 IMPERIAL A. & E. SMITH CO., PGH., PA.

PR 3642-557

9-0 22

FORM WW-4(A)
Revised 6-07

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

Subscribed and sworn before me this 30th day of March, 2016
Joseph E. Williams Notary Public
Marshall County, State of West Virginia
My commission expires June 5th, 2024

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

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Office of Oil and Gas
APR 13 2016
WV Department of Environmental Protection

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.

WW-9
Rev. 5/08

Page _____ of _____

API Number 47 - 051 - 00344

Operator's Well No. SGW-111

47051003440

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)
X 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, 2016

Joseph E Williams Notary Public

My commission expires June 5th 2024

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APR 1 2016
WV Department of Environmental Protection

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Joseph E. Williams
Moundsville, WV 26041
My Commission Expires June 5, 2024

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

MASON SMITH
Project Engineer

April 1, 2016

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

To Whom It May Concern,

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

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

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP facilities number U-0033-83, O-1001-00, U-1035-91U-46-84, U-78-83, O-1044-9, or U-100-83.

Sincerely,

Mason Smith
Project Engineer

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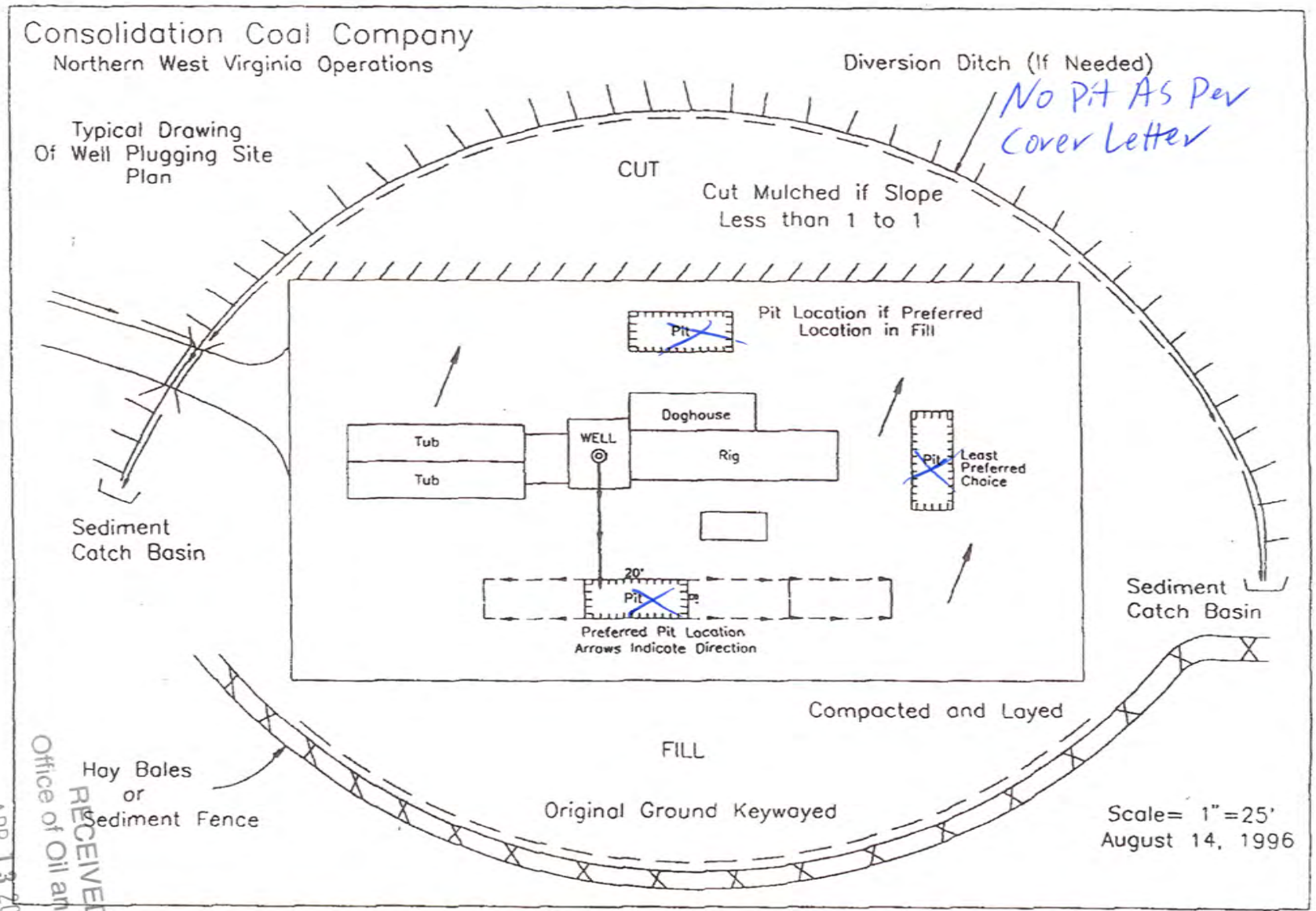

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'Majorsville; WV,PA' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

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WW-7
8-30-06

4705100344P

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:

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

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

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential ____

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

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

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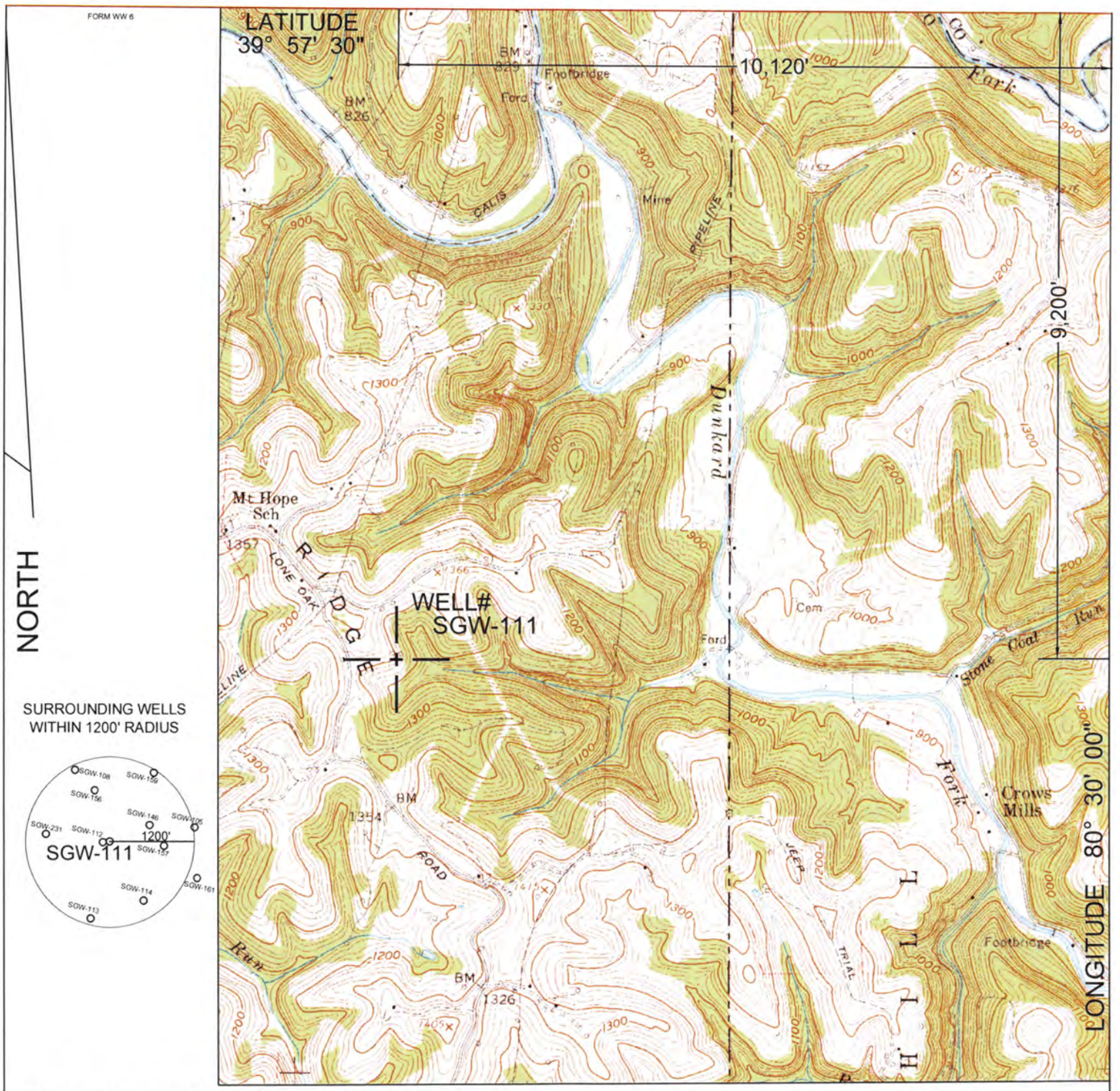
WV Department of
Environmental Protection

Signature **Professional Surveyor**
Title

March 11, 2016
Date

FORM WW 6



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

TROY B. FREELS LICENSED No. 2002 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) 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

PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.

FILE NO.: MAJORSVILLE6.DWG

SCALE: 1"=2000'

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

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

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: X CLEAN OUT AND REPLUG: ____ OTHER:
PHYSICAL CHANGE IN WELL (SPECIFY): ____ TARGET FORMATION: NONE
ESTIMATED DEPTH: ____

COUNTY NAME PERMIT

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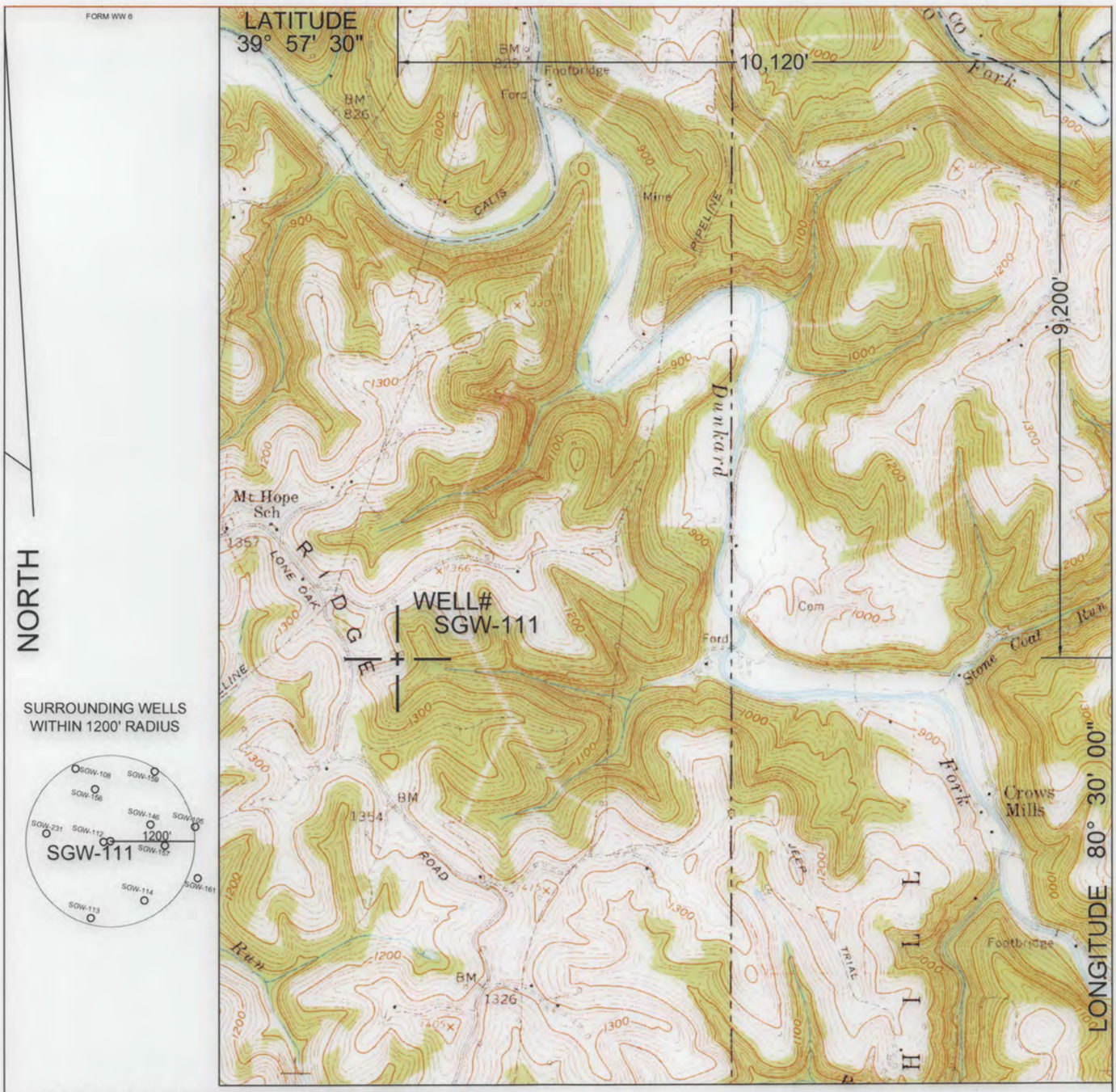
WV Department of Environmental Protection

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

FORM WW 6



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

TROY B. FREELS LICENSED No. 2002 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) 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

SCALE: 1"=2000'

PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.

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

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

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: X CLEAN OUT AND REPLUG: ____ OTHER: ____

PHYSICAL CHANGE IN WELL (SPECIFY): ____ TARGET FORMATION: NONE

ESTIMATED DEPTH: ____

COUNTY NAME

PERMIT

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH

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