



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: 47-5100192, 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: 2-4004
Farm Name: ELDER, MAY
API Well Number: 47-5100192
Permit Type: Plugging
Date Issued: 04/26/2016

Promoting a healthy environment.

04/29/2016

4705100192

1.) Date: March 18, 20 16
2.) Operator's Well No. SGW-156
3.) API Well No. 47 - 51 - 00192
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: 1344.58' 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 V-1025-91 Revision 27 and 31

SEE EXHIBIT NO. 1

Soid cement plug from attainable bottom to 10 03' then 101C exemption

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

Work order approved by inspector _____ Date APR 13 2016

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04/29/2016

4705100192

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

4705100



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, drilage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well, and again if

necessary to ensure that the sight line is not more than 50 feet from the well.

- (f) Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. When the longwall mining method is implemented, the fire hose shall be extended to the face area of the mine through. All fire hoses shall be ready for operation during the mining through.
- (g) Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs, shall be available within the immediate area of the mine through.
- (h) The quantity of air required by the approved ventilation system and methane and dust control plan, but not less than 9,000 cubic feet of air per minute shall be used to ventilate the working face during the mining through operation. On longwall sections, a minimum of 20,000 cfm shall be used to ventilate the working face during the mining through operation.
- (i) Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well.
- (j) The methane monitor on the longwall, continuous mining machine, or cutting machine and loading machine shall be calibrated on the shift prior to mining through the well.
- (k) When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine, cutting machine, or loading machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 10 feet of the well. During the actual cutting through process, no individual shall be allowed on the return side

until mining through has been completed and the area has been examined and declared safe.

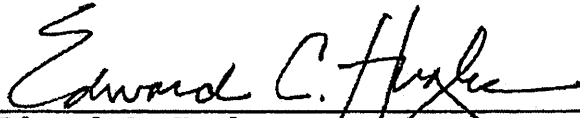
- (l) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- (m) When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until adequate ventilation has been established around the wellbore.
- (n) After a well has been intersected and the working place determined safe, mining shall continue in by the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- (o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- (p) The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.
- (q) MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- (r) A copy of the petition shall be maintained at the mine and be available to the miners.
- (s) The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.

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

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

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

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


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

Certificate of Service

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

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

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

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

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


MARY ANN GRIFFIN
Mine Safety Clerk



4705100192

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle CARBON

WELL RECORD

Permit No. MARS-192-D

Oil or Gas Well GAS
Storage

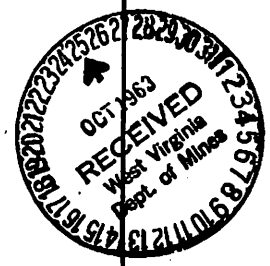
Company The Mfrs. Lt. and Ht. Co.
 Address 800 Union Trust Bldg., Pittsburgh 19,
 Farm May Elder Acres 96
 Location (waters) 4004
 Well No. 4004 Elev. 1341.60G.L.10
 District Webster County Marshall
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced May 23, 1963
 Drilling completed September 2, 1963
 Date Shot 8/30/63 From Big Injun
 With Side Static
 Open Flow 13 gal. /10ths Water in _____ Inch
13 gal. /10ths Water in _____ Inch
 Volume 16,895,000 Cu. Ft.
 Rock Pressure 890 lbs. 72 hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet
 Salt water _____ feet

Casing and Pa. Tubing	Used in Drilling	Left in Well	Feet
Size			
12			
10 3/4"		843'	Size of
8 5/8"		1410'	
8 7/8"	1908'	1908'	Depth set
5 1/2"			
4 1/2"	1900'	1978'	Perf. top
2			Perf. bottom
Line Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SUEP _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT 797 FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal		6	797	803			
Little Dunkard		10	1160	1170			
Big Dunkard		22	1280	1302			
Gas Sand		107	1398	1505			
1st Salt Sand		70	1540	1610			
3rd Salt Sand		73	1725	1798			
Big Injun							
Reconditioned to Original							
total depth of 1978'							
TOTAL DEPTH				1978			

Show of Gas 1552 - 1555 (Orig. Record)
 Water 1775-1785' (Orig. Record)
 Gas - 1954 to 1968' (Orig. Record)



WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

4705100192

Permit No. Mars 192
Cameron Quad.
Company
Address
Farm
Well No.
District
Commenced
Completed
Volume
Rock Pressure
Water

The Manf. Light & Heat Co.

Gas Well
CASING & TUBING

Mary Elder Acres 300
4004 Elev. 1342
Webster Marshall County 6 5/8 1908 1908
Oct. 3, 1948 4 1989
Nov. 22, 1948:
80/10 M 4" , 6,286,080 B. Injun 11-22-48
368# 24 hr.
1775-1785

Cond. 16 16
10 843 843
8 1/2 1410 1410
6 5/8 1908 1908
4 1989
Anchor Packer
Size 6 5/8 x 4
Depth 1927'

Clay	0	16	Slate	1302	1335
Slate	16	35	Lime	1335	1353
Lime	35	50	Slate	1353	1365
Slate	50	120	Lime	1365	1375
Red Rock	120	135	Slate	1375	1398
Slate	135	175	Sand	1398	1505
Lime	175	190	Slate	1505	1540
Slate	190	240	Sand	1540	1610
Sand	240	255	Slate	1610	1632
Slate	255	280	Lime	1632	1650
Lime	280	290	Slate	1650	1725
Slate	290	320	Sand	1725	1798
Lime	320	330	Black Slate	1798	1805
Slate	330	370	Lime	1805	1857
Lime	370	380	Slate	1857	1870
Slate	380	400	Lime	1870	1885
Lime	400	440	Slate	1885	1891
Slate	440	445	Big Injun Sand	1891	
Showing of coal	445	448	Pay Sand	1954	1968
Lime	448	458	Total Depth		1978
Slate	458	480	SIM 803		
Lime	480	500	Show of gas 1552-1555		
Sand	500	520	SIM 1898		
Slate	520	530	Gas 1954 to 1968 80/10 M in 4", 6,286,080CF		
Lime	530	688	MINUTE PICKUP TEST IN 4" TUBING		
Slate	688	692	1 2 3 4 5 6 7 8 9		
Mapletown Coal	692	694	220 275 290 295 302 305 307 310 311		
Slate	694	698			
Lime	698	780	10 15 30 45 60 24 hr.		
Slate & Shells	780	797	312 320 330 335 340 368		
Pitts. Coal	797	803	Tubing record -----Thrd. on		
Lime	803	810	Perf. 25' 2"		
Slate	810	822	" 25' 2"		
Lime	822	840	Packer 3' 8"		
Slate	840	860	Tubing 80 jts.		
Red Rock	860	870	1939' 7"		1805
Slate & Shells	870	890	Total 1989' 11"		1342
Red Rock	890	898			463
Lime	898	915			
Red Rock	915	950			
Lime	950	965			
Red Rock	965	980			
Slate	980	992			
Lime	992	1015			
White Slate	1015	1050			
Red Rock	1050	1072			
Slate	1072	1095			
Lime	1095	1104			
Slate	1104	1123			
Lime	1123	1137			
Slate	1137	1160			
Little Dunkard Sand	1160	1170			
Slate	1170	1197			
Lime	1197	1210			
Slate	1210	1280			
Big Dunkard	1280	1302			

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APR 13 2016

WV Department of
Environmental Protection 04/29/2016

FARM NAME May Elder		FARM NO.	COMPANY M. L. & H.	WELL NO. L-4004
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TOWNSHIP - TOWN - DISTRICT Webster District	COUNTY Marshall	STATE W.Va.	WALL MAP REF. Majorsville
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ELEV. 1342	DATE COMP. 9/2/63	T.D. 1978	PROD. SAND Big Injun	WELL FRACT. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	VOL. B.F.	FINAL VOL. 16,895
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I.R.P. 890/72	LEASE NO. 19447	CONT. NO.	ACRES 96	DATE ABD.	DATE SOLD
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PIPE SIZE 10	8	7	4 1/2	TYPE COMPLETION 1900	
LEFT IN 843	1410	1908	1978	<input checked="" type="checkbox"/> CEMENTED	<input type="checkbox"/> PACKER SET <input type="checkbox"/> PERF. @ _____ FT.

DATE	DEPTH	STATUS	DATE	DEPTH	STATUS	AUTHORITY
						Remarks: Active storage well reconditioned and retained. Work Order No. - 2301-L-2858-5
						TOPO SHEET LOCATION
						QUAD. _____ SIZE <input type="checkbox"/> 7 1/2' <input type="checkbox"/> 15'
						COORDINATES

4705000192

ELEV. 1261.54 GL

COMPLETION REPORT
Majorsville Shallow

NO. 4850

FARM John and Emma Crow

MAP SQ. _____

WELL OWNERS _____

~~FARM~~/DIST Webster

COUNTY Marshall

STATE WV

PERMIT NO. _____ TOTAL DEPTH 1477

COMPLETED 2-5-71

OPEN FLOW

9250

M. C. F.

1st Salt Sand

R. P.

460[#]

1st Salt 1464-1477

INJUN _____

SHALE _____

MAXON _____

BEREA _____

BIG LIME _____

REMARKS _____

Environmental Protection
Department of
Oil and Gas
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March 3 2016

4705100192

WELL LOG SUMMARY

4705100192

LOCATION	COMPANY	The Manufacturers Light & Heat Company			DIV.	5	FIELD	Marionville	WELL NO.	L-100h			
	FARM NAME	ACRES	LEASE NO.	DISTRICT - TOWNSHIP	COUNTY	STATE							
	TOPO. MAP	Quadrangle	Ft.	of	of	and							
CONTRACTOR	CONTRACTOR'S NAME	Reconditioned											
	ADDRESS	Ross Burns			Drilled from	0	Ft. to	1978	Ft.				
	DATE WORK COMMENCED	DATE WELL COMPLETED	COMPLETED TOTAL DEPTH	TYPE COMPLETION									
HOLE SIZE	BIT GAUGE (Inches)	13"	10"	8"	6"								
	FROM - TO (Feet)	0 - 843'	843 - 1410'	1410 - 1908'	1908 - 1978'								
	SIZE (O.D.)	10 3/4"	8 5/8"	7"	4 1/2"								
	WEIGHT / FOOT	Original	Original	Original	12.6#								
	STEEL GRADE	10"	8"	7"	J-55								
	COUPLING TYPE	Casing	Casing	Casing	Short								
	SETTING DEPTH			1908'	1909'								
	LEFT IN HOLE	843'	1410'	1908'	1978'								
	NUMBER OF SACKS	50		150	225								
	TYPE	IS		IS	IS								
CEMENT	WEIGHT (# Gal.)	15.2		15.1	15.3								
	RETURN TO SURFACE (Yes-No)	--		Yes	Yes								
	PLUG DOWN PRESSURE	--		800	800								
CEMENTING SHOE OR PACKER	MANUFACTURER	Original Packer											
	TYPE	Anchor Packer											
	SIZE	6 5/8" x 1 1/2"											
WELL STIMULATION	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW-MCF/DAY	PERFORMED BY	DATE						
				From	Before								
				To	After								
					From	Before							
				To	After								
OPEN FLOW TESTS	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING (INCHES)	OPEN FLOW						
	8 30 63	Big Injun	From 1954 To 1968	Side Static	13psi	4"	MCF/DAY	HRS. BLOWN	26,895	5 min.			
	6 6 63	Big Injun	From 1954 To 1968	Pitot Tube	4.5 in. Mercury	4"	4,090	15 min.					
WELLHEAD PRESSURE TESTS	DATE GAUGED	FORMATION	MINUTE PRESSURES - PSIG						WELLHEAD PRESSURES - PSIG				
	8 30 63	Big Injun	1	3	5	10	20	30	24HR.	48HR.	72HR.	MAX. PRESS	HOURS
			785	870	890	890	890	890	890	890	890	890	72 hr.
MISC.	DEPTH MEASUREMENT TAKEN FROM:								DIST. TO GROUND		ELEVATION		
	<input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Ground <input type="checkbox"/> Other (Specify) _____								2 Feet		1341.60 G.I.		
REMARKS	Original 10" Casing Cemented in Annulus thru 1 1/2" pipe												
	Original 7" Casing Perforated at 1430' and Cemented to Surface												
	1900' of New 4 1/2" Tubing joined up to Original tubing and Cemented to Surface												
	W.O. #301-L-2858-5												

APPROVED BY (DIVISION ENGINEER) *David Lambert* DATE 9/27/63 APPROVED BY (DIVISION SUPERINTENDENT) DATE

Attach additional sheets (Form PD-44b) and forward to Production Department - Pittsburgh General Office

Approved by _____ PRODUCTION-STORAGE DEPTS. G.O. DATE 04/29/2016

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APR 19 2016
WV Department of Environmental Protection

WELL LOG SUMMARY

DIV.	FIELD	FARM	COUNTY	WELL NO.
5	Majorville	May Elder	Marshall	14004
ORIGIN OF FORMATION DEPTHS		<input checked="" type="checkbox"/> Driller's Log	<input type="checkbox"/> Service Company Log	<input type="checkbox"/> Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Active Well Drilled 11/22/88		Reconditioned on W.O.		2301-I-2855-5
Taken from Original Well Record				
Pittsburgh Coal	797	803	6	
Little Dunkard	1160	1170	10	
Big Dunkard	1260	1292	22	
Gas Sand	1358	1505	107	
1st. Salt Sand	1540	1619	79	Show of Gas 1552-1555' (Orig. Record)
3rd. Salt Sand	1725	1798	73	Water 1775-1785' (Orig. Record)
Big Injun				Gas - 1954 to 1960' (Orig. Record)
Reconditioned to Original				
total depth of 1978'				
TOTAL DEPTH		1978		

4705100792

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WV Department of
Environmental Protection

NOTICE OF WELL STATUS CHANGE

COMPANY: **The Manufacturers Light & Heat Company** FIELD: **Majorsville** DIV: **5** FOREIGN WELL NO. (IF ANY): **L-1001** COMPANY WELL NO. **L-1001**

FARM NAME: **May Rider** TOWNSHIP: **Webster** TOWN: **Marshall** COUNTY: **W.Va.** STATE: **W.Va.** LEASE-DEED NO.: **19447** ACRES: **96** DATE COMP.: **9 | 2 | 63**

LAST ACTIVE WELL ON FARM: YES NO (THIS BLOCK FOR GENERAL OFFICE USE ONLY)

SURRENDER LEASE RENEW LEASE OTHER

STATUS PRIOR TO THIS REPORT: DRILLING WELL Production Storage ACTIVE WELL Production Storage ABANDONED WELL

WELL STATUS CHANGE OR WORK PERFORMED: COMPLETED Gas Dry Retained Abandoned RECONDITIONED Retained Abandoned RECONDITIONED & TRANSF. TO STORAGE TRANSFERRED TO Production Storage PURCHASED FOR Production Storage DRILLED DEEPER PLUGGED AND ABANDONED SOLD

Remarks: **4705100192**

DRILLED TO: **1978** feet **Reconditioned to 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 (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 FLOW: _____ cubic feet per day ROCK PRESSURE: _____ psig in _____ hours
TEST	FINAL READING	TYPE OF GAUGE: <input type="checkbox"/> Orifice Well Tester <input type="checkbox"/> Pitot Tube <input checked="" type="checkbox"/> Other (Specify) Side Static
	FLOW	GAUGE READING: _____ inches <input type="checkbox"/> Mercury <input type="checkbox"/> Water or 33 psig through 4 inch opening after blowing 5 min FLOW: 16,895,000 cubic feet per day ROCK PRESSURE: 890 psig in 72 hours

AUTHORIZATION FOR WORK PERFORMED: Well Order Number _____ Budget No. _____ Work Order Number **2301-L-2858-5** Abandonment Order Number _____

WORK PERFORMED BY: MACHINE NUMBER OR CONTRACTOR'S NAME: **Ross Burns**

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

Compiled By: **A. Schafer** Date: **9/16/63**

Approved By: _____ Date: _____
DIVISION SUPERINTENDENT

Return to Land Operating Department for filing
04/29/2016

WELL LOG SUMMARY

16.55
47-051-00192
Sheet 1 of 1

LOCATION	COMPANY The Manufacturers Light & Heat Company		DIV. 5	FIELD Majorsville	WELL NO. L-1004								
	FARM NAME May Elder	ACRES 96	LEASE NO. 19447	DISTRICT - TOWN Webster	COUNTY Marshall								
	TOPO. MAP Cameron Quadrangle		Fi. _____ of _____		STATE W.Va.								
CONTRACTOR	CONTRACTOR'S NAME Ross Burns		Reconditioned										
	ADDRESS Waynesburg, Pa.		DERRIS from 0 Ft. to 1978 Ft.										
			Type of Rig Cable Tool Drilling Machine										
	DATE DRILLING COMMENCED Reconditioning 5/23/63	DATE WELL COMPLETED 9/2/63	COMPLETED TOTAL DEPTH 1978 Feet		TYPE COMPLETION Open Hole								
HOLE SIZE	BIT GAUGE (Inches)	13"	10"	8"	6"								
	FROM - TO (Feet)	0 - 843'	843 - 1410'	1410 - 1908'	1908 - 1978'								
CASING AND TUBING <small>(All Measurements less threads)</small>	SIZE (O.D.)	10 3/4"	8 5/8"	7"	4 1/2"								
	WEIGHT/FOOT	Original	Original	Original	12.6#								
	STEEL GRADE	10"	8"	7"	J-55								
	COUPLING TYPE	Casing	Casing	Casing	Short								
	SETTING DEPTH				1908'								
CEMENT	LEFT IN HOLE	843'	1410'	1908'	1978'								
	NUMBER OF SACKS	50		150	225								
	TYPE	IS		IS	IS								
	WEIGHT (# Gal.)	15.2		15.1	15.3								
CEMENTING SHOE OR PACKER	RETURN TO SURFACE (Yes-No)	---		Yes	Yes								
	PLUG DOWN PRESSURE	---		800	800								
	MANUFACTURER			Original Packer	Anchor Packer								
	TYPE			Anchor Packer									
	SIZE			6 5/8" X 4 1/2"									
	SETTING DEPTH			1927'									
WELL STIMULATION <small>(Attach Completed Form PD-17 - "Well Stimulation Report" if applicable)</small>	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW-MCF/DAY	PERFORMED BY	DATE						
				From To	Before After								
				From To	Before After								
				From To	Before After								
OPEN FLOW TESTS	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING (INCHES)	OPEN FLOW MCF/DAY	HRS. BLOWN					
	8 30 63	Big Injun	From 1954 To 1968	Side Static	13psi	4"	16,895	5 min.					
	6 6 63	Big Injun	From 1954 To 1968	Pitot Tube	4.5 in. Mercury	4"	4,090	15 min.					
WELLHEAD PRESSURE TESTS	DATE GAUGED	FORMATION	MINUTE PRESSURES - PSIG					WELLHEAD PRESSURES - PSIG					
	8 30 63	Big Injun	1	3	5	10	20	30	24HR.	48HR.	72HR.	MAX. PRESS	HOURS
			785	870	890	890	890	890	890	890	890	890	72 hr.
		420	610										
	6 6 63	Big Injun									523		
MISC.	DEPTH MEASUREMENT TAKEN FROM:		DIST. TO GROUND		ELEVATION								
	<input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Ground <input type="checkbox"/> Other (Specify) _____		2 Feet		1341.60 G.L.								
	LOGGED	LOGGED BY (COMPANY)		DATE LOGGED									
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
REMARKS	Original 10" Casing Cemented in Annulus thru 1 1/2" pipe												
	Original 7" Casing Perforated at 1430' and Cemented to Surface												
	1900' of New 4 1/2" Tubing joined up to Original tubing and Cemented to Surface												
	W.O. 2301-L-2858-5 (ACTIVE STORAGE WELL - RECONDITIONED)												

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APR 13 2016

APPROVED BY (DIVISION ENGINEER) _____ DATE **9-12-63** APPROVED BY (DIVISION SUPERINTENDENT) _____

Attach additional sheets (Form PD-44b) and forward to Production Department - Pittsburgh General Office

Approved by _____

PRODUCTION - STORAGE DEPTS. - G.O.

10/13/2016

DATE

MAS

Division 5

Record of well No. 1001 on Mary Elder Farm 300 Acres

Majorville Storage Field Webster Township District Marshall County W. Va. State

Rig Commenced Sept. 13 1918 Completed Sept. 26, 1918

Drilling Commenced October 3, 1918 Completed November 22, 1918

Contractor Rewe Drilling Co. Address New Martinsville, W. Va.

Driller's Name Willard Lemasters, Em. Perry Wayne Rewe

Tool Dressers- Archie Sole, J. E. Throckmorton, John Blati

CASING AND TUBING RECORD

	Conductor	18"	10"	8 1/4"	7"	6 5/8"	5 5/16"	4"	3"
Used in Drilling	16'		813'	1110'		1908'			
Left in well	16'		813'	1110'		1908'		1939'	

PACKER RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		
6 5/8" 4 1/2"	1927'	Anchor							

SHOOTING RECORD

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. E. P.	Hours	
						1	5	10	30	60				
11/22/18	80/10	Mercury	1"	6,286.030	Rig Injua	220	302	312	330	340	368			

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Clay	0	16	16	
Slate	16	35	19	
Lime	35	50	15	
Slate	50	120	70	
Red Rock	120	135	15	
Slate	135	175	40	
Lime	175	190	15	
Slate	190	210	20	
Sand	210	255	45	
Slate	255	280	25	
Lime	280	290	10	
Slate	290	320	30	
Lime	320	330	10	
Slate	330	370	40	
Lime	370	380	10	
Slate	380	400	20	
Lime	400	410	10	
Slate	410	415	5	
Showing of coal	415	418	3	
Lime	418	458	40	
Slate	458	480	22	
Lime	480	500	20	
Sand	500	520	20	
Slate	520	530	10	
Lime	530	688	158	
Slate	688	692	4	
Marletown Coal	692	694	2	
Slate	694	698	4	

Examined above information and measurements and found to be correct by

Examined and Approved by

Rewe Drilling Co. Contractor

Chas. White Field Superintendent

NOTE-The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of say.

04/29/2016

Division 5
Record of well No. 11004 on May Elder Farm 300 Acres
Majorsville Storage Field Webster Marshall County W. Va. State
Rig Commenced 19 Completed 19
Drilling Commenced 19 Completed 19
Contractor _____ Address _____
Driller's Name _____

CASING AND TUBING RECORD

Conductor	13"	10"	8 1/4"	7"	6 3/8"	5 3/16"	4"	3"		
Used in Drig.										
Left in well										

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours	
						1	5	10	30	60				

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Lime	698	780	82	
Slate & Shells	780	797	17	
Pittsburgh Coal	797	803	6	S. L. M. 803
Lime	803	810	7	
Slate	810	822	12	
Lime	822	840	18	
Slate	840	860	20	
Red Rock	860	870	10	
Slate & Shells	870	890	20	
Red Rock	890	898	8	
Lime	898	915	17	
Red Rock	915	950	35	
Lime	950	965	15	
Red Rock	965	980	15	
Slate	980	992	12	
Lime	992	1015	23	
White Slate	1015	1050	35	
Red Rock	1050	1072	22	
Slate	1072	1095	23	
Lime	1095	1104	9	
Slate	1104	1123	19	
Lime	1123	1137	14	
Slate	1137	1160	23	
Little Dunkard Sand	1160	1170	10	
Slate	1170	1197	27	
Lime	1197	1210	13	
Slate	1210	1280	70	
Big Dunkard	1280	1302	22	

Examined above information and measurements and found to be correct by

Howe Drilling Co. Contractor

Examined and Approved by

John W. [Signature] Field Superintendent

NOTE - The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with exact line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

of action

04/29/2016

Division 5

Record of well No. 1002 on May Elder Farm 300 Acres

Majorsville Storage Field Webster Township District Marshall County W. Va. State

Rig Commenced 19 Completed 19

Drilling Commenced 19 Completed 19

Contractor Address

Driller's Name

CASING AND TUBING RECORD

	Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"
Used in Drilg.									
Left in well									

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours
						1	5	10	30	60			

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Slate	1302	1335	33	
Lime	1335	1355	18	
Slate	1355	1365	12	
Lime	1365	1375	10	
Slate 1/2	1375	1398	23	
Sand	1398	1505	107	
Slate	1505	1510	5	
Sand	1510	1610	100	Show of gas 1552-1555
Slate	1610	1632	22	
Lime	1632	1650	18	
Slate	1650	1725	75	
Sand	1725	1798	73	Water 1775 - 1785
Black Slate	1798	1805	7	
Lime	1805	1857	52	
Slate	1857	1870	13	
Lime	1870	1885	15	S. L. M. 1898
Slate	1885	1891	6	Gas 1971 to 1968
Big Injun Sand	1891			80/10 mercury in 1" = 6,586,080 Cu. ft.
Pay Sand	1974	1968	6	
Total depth		1978		

MINUTE PICKUP TEST IN 1" TUBING

1	2	3	4	5	6	7	8	9	10	15	30	1 1/2	60	2 1/2 hr.
220	275	290	295	302	305	307	310	311	312	320	330	335	340	368
Tubing Record												Thrd. on	Perforation	25' 2"
													Perforation	25' 2"
													Packer	3' 8"
													Tubing	80 fts. 1939' 7"
													Total	1989' 11"

Examined above information and measurements and found to be correct by

Examined and Approved by

Rouse Drilling Co. Contractor

Field Superintendent

NOTE - The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment, the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

04/29/2016

Form PD-34 CSD COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES (Rev. 11-61)

NOTICE OF WELL STATUS CHANGE

COMPANY: **The Manufacturers Light & Heat Company** FIELD: **Majorville** DIV: **5** FOMELIN WELL NO. **L-1004** COMPANY WELL NO. **L-1004**

FARM NAME: **May Elder** DISTRICT: **Webster** COUNTY: **Marshall** STATE: **W. Va.** LEASE/DEED: **1-1-57** ACRES: **96.9** DATE COUR: **12-15-63**

LAST ACTIVE WELL ON FARM: YES NO (THIS BLOCK FOR GENERAL OFFICE USE ONLY) BORNEN LEASE OTHER LEASE OTHER

STATUS PRIOR TO THIS REPORT

DRILLING WELL Production Storage
 ACTIVE WELL Production Storage
 ABANDONED WELL

WELL STATUS CHANGE OR WORK PERFORMED

COMPLETED Gas Dry
 RE-DRILLED FOR STORAGE Rejected Abandoned
 RE-CONDITIONED Retained Abandoned
 RE-CONDITIONED & TRANSF. TO STORAGE
 TRANSFERRED TO Production Storage
 PURCHASED FOR Production Storage
 DRILLED DEEPER
 PLUGGED AND ABANDONED
 SOLD

Remarks: **OCT 15 1963**

COMPLETION DATA (If applicable)

Reconditioned to **1978** **Into Big Injun** Yes No

BEFORE TREATMENT: On Ice Well Tester Pilot Test Other (Specify) _____

TEST: On Ice Well Tester Pilot Test Other (Specify) **Static**

SEALING: **16,695,000** cubic feet per day **690** psi **22** hours

AUTHORIZATION FOR WORK PERFORMED

By Order No. _____ **2301-1-2850-5**

WORK PERFORMED BY: **Hoss Burts**

Completed By: **A. Schuler** Date: **9/26/63**
D. Gunkler Date: **9/27/63**

For General Office Use

DEPARTMENT	SECTION	NOTED BY	DATE
PRODUCTION	Production	<i>[Signature]</i>	
	Storage	<i>[Signature]</i>	
	Check	<i>[Signature]</i>	10/15/63
LAND OPERATING	Land Acquiring	<i>[Signature]</i>	10/14/63
	Title Accounting	<i>[Signature]</i>	10/18/63
CIVIL ENGINEERING		<i>[Signature]</i>	10/14/63

[Signature] Return to Land Operations Department for filing

THE MANUFACTURERS LIGHT & HEAT CO.
Company

Division 5
Record of well No. 1001
Loc. 00 Mary Rider Farm 300 Acres

Well (Commercial) Sept. 23 1958 Completed Sept. 26 1958
Drilling Commenced October 3, 1958 Completed Kershaw Co. 1958
Contractor Rowe Drilling Co. Address New Martinsville, W. Va.
Driller's Name Willard Lassiter, Mr. Perry Wayne Rowe
Tool Dressers Art. S. S. J. H. Yorgel, Martin J. S. S.

CASING AND TUBING RECORD

Size	Material	Length	Weight	Depth
15"	API	0.101	1900'	
15"	API	1.101	1700'	1939'

LOGGING RECORD

Date	Time	Depth	Remarks
9-23-58	10:00	100'	Anchor

VOLUME AND PRESSURE

Flow	Volume	Pressure	Notes
100 G.P.M.	80/10	Mercury	1" 0.286 G.P.M. 115' In Jan. 220' 300' 312' 330' 340' 350'

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

Formation	Top	Bottom	Thickness	Permeability
Clay	0	15	15	
Silt	15	35	20	
Clay	35	50	15	
Slate	50	120	70	
Red Rock	120	135	15	
Slate	135	175	40	
Clay	175	190	15	
Silt	190	210	20	
Sand	210	255	45	
Slate	255	280	25	
Clay	280	290	10	
Silt	290	320	30	
Clay	320	330	10	
Slate	330	370	40	
Clay	370	380	10	
Slate	380	400	20	
Clay	400	410	10	
Silt	410	415	5	
Shedding of coal	415	440	25	
Clay	440	450	10	
Slate	450	480	30	
Clay	480	500	20	
Sand	500	520	20	
Slate	520	530	10	
Clay	530	560	30	
Slate	560	592	32	
Unconsolidated coal	592	600	8	
Slate	600	650	50	

Contractor **Rowe Drilling Co.** Field Superintendent **Willard Lassiter**

Contractor **Rowe Drilling Co.** Field Superintendent **Willard Lassiter**

Contractor **Rowe Drilling Co.** Field Superintendent **Willard Lassiter**

Contractor **Rowe Drilling Co.** Field Superintendent **Willard Lassiter**

Contractor **Rowe Drilling Co.** Field Superintendent **Willard Lassiter**

THE MANUFACTURERS LIGHT & HEAT CO. PAGE 3

Division 5 4404

Record of well No. 1001 on Kay Elder Farm 300 Acres

Loc. for well: State Field Marshall County W. Va. State

Rig Completed 19 Completed 19

Drilling Completed 18 Completed 19

Contractor Address

Order's Name

CASING AND TUBING RECORD

Depth	Size	Weight	Length	Remarks

PACKER RECORD SHOOTING RECORD

Shot No.	Time	Remarks	Volume Before	Volume After

VOLUME AND PRESSURE

Date	Time	Pressure	Remarks

TOTAL INITIAL OPEN FLOW CUBIC FEET PER 24 HOURS

Perforation	Top	Bottom	Thickness	Remarks
Slate	1300	1335	35	
Line	1335	1351	16	
Slate	1351	1366	15	
Line	1366	1375	9	
Slate	1375	1388	13	
Sand	1388	1505	117	
S.M. S.	1505	1510	5	
Sand	1510	1610	100	Show of gas 1552-1555
Slate	1610	1622	12	
Line	1622	1650	28	
Slate	1650	1725	75	
Sand	1725	1738	13	Water 1775 - 1785
Black slate	1738	1805	67	
Line	1805	1857	52	
Slate	1857	1870	13	
Line	1870	1885	15	9. 1. 1. 1898
Slate	1885	1891	6	Gas 1941 to 1960
Big Indian Sand	1891			80/10 mercury in 4" 25,716,000 lbs. ft.
Pay Sand	1951	1958	7	
Total Depth		1978		

MONEY PICKUP TEST IN 1/2" TUBING

1	2	3	4	5	6	7	8	9	10	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375	390	405	420	435	450	465	480	495	510	525	540	555	570	585	600	615	630	645	660	675	690	705	720	735	750	765	780	795	810	825	840	855	870	885	900	915	930	945	960	975	990	1005	1020	1035	1050	1065	1080	1095	1110	1125	1140	1155	1170	1185	1200	1215	1230	1245	1260	1275	1290	1305	1320	1335	1350	1365	1380	1395	1410	1425	1440	1455	1470	1485	1500	1515	1530	1545	1560	1575	1590	1605	1620	1635	1650	1665	1680	1695	1710	1725	1740	1755	1770	1785	1800	1815	1830	1845	1860	1875	1890	1905	1920	1935	1950	1965	1980	1995	2010	2025	2040	2055	2070	2085	2100	2115	2130	2145	2160	2175	2190	2205	2220	2235	2250	2265	2280	2295	2310	2325	2340	2355	2370	2385	2400	2415	2430	2445	2460	2475	2490	2505	2520	2535	2550	2565	2580	2595	2610	2625	2640	2655	2670	2685	2700	2715	2730	2745	2760	2775	2790	2805	2820	2835	2850	2865	2880	2895	2910	2925	2940	2955	2970	2985	3000
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

Perforation 25' 2"

Perforation 25' 2"

Tubing 31' 0"

Tubing 80 lbs. 1970' 7"

Total 1988' 11"

Contracted and Approved by *[Signature]* Field Superintendent

Contractor *Russ Drilling Co.*

NOTE: The well is to be drilled with casing and cemented with a complete and accurate record of the well and necessary, when planned for completion of the well. All necessary logs, reports, and other data shall be furnished to the owner of the well, and under the head of "Contractor" shall be recorded in the well log. The well is to be drilled with casing and cemented with a complete and accurate record of the well and necessary, when planned for completion of the well.

FARM NAME: **May Elder** FARM NO. COMPANY **M. L. & H.** WELL NO. **L-4004**

TOWNSHIP - TOWN - DISTRICT **Webster District** COUNTY **Marshall** STATE **W. Va.** WALL MAP REF. **Majorsville**

ELEV. **1342** DATE COMP. **9/2/63** T.D. **1978** PROD. SAND **Big Injun** WELL FRACT. YES NO VOL. B.F. FINAL VOL. **16,895**

I.R.P. **890/72** LEASE NO. **19447** CONT. NO. ACRES **96** DATE ABD. DATE SOLD

PIPE SIZE **10** **8** **7** **4 1/2** TYPE COMPLETION **1900**
 LEFT IN **843** **1410** **1908** **1978** CEMENTED PACKER SET PERF. @ _____ FT.

DATE	DEPTH	STATUS	DATE	DEPTH	STATUS	AUTHORITY
						Remarks: Active storage well reconditioned and retained.
						Work Order No. - 2301-L-2858-5
						TOPO SHEET LOCATION
						QUAD. SIZE <input type="checkbox"/> 7 1/2' <input type="checkbox"/> 15'
						COORDINATES

4705100192

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

FORM PD-27-CSD

ELEV. 1261.54 GL

COMPLETION REPORT
Majorsville Shallow

NO. 4850

FARM John and Emma Crow

MAP SQ. _____

WELL OWNERS _____

~~FARM~~/DIST Webster COUNTY Marshall STATE WV

PERMIT NO. _____ TOTAL DEPTH 1477 COMPLETED 2-5-71

OPEN FLOW

9250

M. C. F.

1st Salt Sand

R. P.

460[#]

	INJUN	SHALE
1st Salt 1464-1477	_____	_____
MAXON	BEREA	_____
BIG LIME	_____	_____

REMARKS:

4705100192

WELL LOG SUMMARY

4705100129 2

LOCATION	COMPANY The Manufacturers Light & Heat Company		DIV. FIELD 5 Hageravilla		WELL NO. L-1008								
	FARM NAME May Elder	ACRES 96	LEASE NO. 19447	DISTRICT - TOWNSHIP Webster	COUNTY Marshall	STATE W. Va.							
	TOPO. MAP Gameron	Quadrangle		Fr. of		and							
CONTRACTOR	CONTRACTOR'S NAME Ross Burns		Reconditioned		Drilled from 0 Ft. to 1978 Ft.								
	ADDRESS Waynesburg, Pa.		Type of Rig Cable Tool Drilling Machine										
	DATE WORK COMMENCED Reconditioning 5/23/63	DATE WELL COMPLETED 9/2/63	COMPLETED TOTAL DEPTH 1978 Feet		TYPE COMPLETION Open Hole								
HOLE SIZE	BIT GAUGE (Inches)	13"	10"	8"	6"								
	FROM - TO (Feet)	0 - 843'	843 - 1410'	1410 - 1908'	1908 - 1978'								
	CASING AND TUBING	SIZE (O.D.)	10 3/4"	8 5/8"	7"	4 1/2"							
		WEIGHT / FOOT	Original	Original	Original	12.65							
	STEEL GRADE	10"	8"	7"	J-55								
	COUPLING TYPE	Casing	Casing	Casing	Short								
	SETTING DEPTH			1908'	1900'								
	LEFT IN HOLE	843'	1410'	1908'	1978'								
	CEMENT	NUMBER OF SACKS	50	150	225								
		TYPE	IS	IS	IS								
WEIGHT (# Gal.)		15.2	15.1	15.3									
RETURN TO SURFACE (Yes-No)		--	Yes	Yes									
CEMENTING SHOE OR PACKER	PLUG DOWN PRESSURE	--	800	800									
	MANUFACTURER			Original Packer									
	TYPE			Anchor Packer									
SIZE			6 5/8" X 4 1/2"										
SETTING DEPTH			1927'										
WELL STIMULATION	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW-MCF/DAY	PERFORMED BY							
				From	Before								
				To	After								
OPEN FLOW TESTS	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING (INCHES)	OPEN FLOW MCF/DAY	HRS. BLOWN					
	8 30 63	Big Injun	From 1954 To 1968	Side Static	13991	4"	16,895	5 min.					
	6 6 63	Big Injun	From 1954 To 1968	Pitot Tube	4.5 in. Mercury	4"	4,090	15 min.					
WELLHEAD PRESSURE TESTS	DATE GAUGED	FORMATION	MINUTE PRESSURES - PSIG					WELLHEAD PRESSURES - PSIG					
			1	3	5	10	20	30	24HR.	48HR.	72HR.	MAX. PRESS.	HOURS
	8 30 63	Big Injun	785	870	890	890	890	890	890	890	890	890	72 hr.
6 6 63	Big Injun	420	610										
MISC.	DEPTH MEASUREMENT TAKEN FROM: <input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Ground <input type="checkbox"/> Other (Specify)				DIST. TO GROUND 2 Feet		ELEVATION 1341.60 G.L.						
	LOGGED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LOGGED BY (COMPANY)		DATE LOGGED								
REMARKS	Original 10" Casing Cemented in Annulus than 1 1/2" pipe												
	Original 7" Casing Perforated at 1430' and Cemented to Surface												
	1900' of New 4 1/2" Tubing joined up to Original tubing and Cemented to Surface												
	W.O. #301-L-2858-5												
APPROVED BY (DIVISION ENGINEER) <i>David C. Lambert</i>		DATE 9/27/63		APPROVED BY (DIVISION SUPERINTENDENT)		DATE							

Attach additional sheets (Form PD-44b) and forward to Production Department - Pittsburgh General Office

NOTICE OF WELL STATUS CHANGE

COMPANY: The Manufacturers Light & Heat Company FIELD: Majorville DIV: 5 FOREIGN WELL NO. (IF ANY): L-1001 COMPANY WELL NO.: L-1001

FARM NAME: May Rider TOWNSHIP: Webster TOWN: Marshall DISTRICT: Marshall COUNTY: W.Va. STATE: W.Va. LEASE-DEED NO.: 10117 ACRES: 96 DATE COMP.: 9 | 2 | 63

LAST ACTIVE WELL ON FARM: YES NO (THIS BLOCK FOR GENERAL OFFICE USE ONLY)

SURRENDER LEASE RENEW LEASE OTHER

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

DRILLED TO 1978 feet Reconditioned to 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 (If applicable)	BEFORE TREATMENT	TYPE OF GAUGE
		GAUGE READING _____ inches	<input type="checkbox"/> Orifice Well Tester <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Other (Specify) _____
	FLOW	FLOW	ROCK PRESSURE
		_____ cubic feet per day	_____ psig in _____ hours
TEST	FINAL READING	TYPE OF GAUGE	
		<input type="checkbox"/> Orifice Well Tester <input type="checkbox"/> Pitot Tube <input checked="" type="checkbox"/> Other (Specify) <u>Side Static</u>	
	GAUGE READING _____ inches	ROCK PRESSURE	
	_____ psig through <u>1/2</u> inch opening after blowing <u>5 min</u>	_____ psig in _____ hours	

FLOW: 16,895,000 cubic feet per day

ROCK PRESSURE: 890 psig in 72 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>2301-1-2858-5</u>	DEPARTMENT	SECTION	NOTED BY	DATE
	<input type="checkbox"/> Abandonment Order Number _____	PRODUCTION	Geology		
	Storage				
	Clerical				

WORK PERFORMED BY: Ross Pinnas

MACHINE NUMBER OR CONTRACTORS NAME: _____

Compiled By: A. Schafer Date: 9/16/63

Approved By: _____ Date: _____

DIVISION SUPERINTENDENT

TREASURY	Land Accounting		
	Plant Accounting		
CIVIL ENGINEERING			

Return to Land Operating Department for filing

04/29/2016

WELL LOG SUMMARY

16.55
4705100192

LOCATION	COMPANY The Manufacturers Light & Heat Company				DIV. 5	FIELD Majorsville	WELL NO. L-1004					
	FARM NAME May Elder	ACRES 96	LEASE NO. 19447	DISTRICT - TOWNSHIP Webster	COUNTY Marshall		STATE W.Va.					
	TOPO. MAP Cameron		Quadrangle		Fi. _____ of _____ of _____		and _____ of _____					
	CONTRACTOR'S NAME Ross Burns				Reconditioned							
CONTRACTOR	ADDRESS Waynesburg, Pa.				DEPTH from 0 Ft. to 1978 Ft.		Type of Rig Cable Tool Drilling Machine					
	DATE DRILLING COMMENCED Reconditioning 5/23/63		DATE WELL COMPLETED 9/2/63		COMPLETED TOTAL DEPTH 1978 Feet		TYPE COMPLETION Open Hole					
	HOLE SIZE	BIT GAUGE (Inches)	FROM - TO (Feet)	13" 0 - 843'	10" 843-1410'	8" 1410-1908'	6" 1908-1978'					
	CASING AND TUBING	SIZE (O.D.)	WEIGHT/FOOT	10 3/4" Original	8 5/8" Original	7" Original	4 1/2" 12.6#					
(All Measurements less threads)	STEEL GRADE	10"	8"	7"	J-55	SEP 30 1963						
	COUPLING TYPE	Casing	Casing	Casing	Short							
	SETTING DEPTH			1908'	1900'	Production Department						
	LEFT IN HOLE	843'	1410'	1908'	1978'							
CEMENT	NUMBER OF SACKS	50	150	225								
	TYPE	IS	IS	IS								
	WEIGHT (# Gal.)	15.2	15.1	15.3								
	RETURN TO SURFACE (Yes-No)	---	Yes	Yes								
CEMENTING SHOE OR PACKER	PLUG DOWN PRESSURE	---	800	800								
	MANUFACTURER				Original Packer							
	TYPE				Anchor Packer							
	SIZE				6 5/8" X 4 1/2"							
WELL STIMULATION	SETTING DEPTH				1927'							
	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW-MCF/DAY	PERFORMED BY	DATE					
				From To	Before After							
				From To	Before After							
OPEN FLOW TESTS	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING (INCHES)	OPEN FLOW MCF/DAY	HRS. BLOWN				
	8 30 63	Big Injun	From 1954 To 1968	Side Static	13psi	4"	16,895	5 min.				
	6 6 63	Big Injun	From 1954 To 1968	Pitot Tube	4.5 in. Mercury	4"	4,090	15 min.				
	DATE GAUGED	FORMATION	MINUTE PRESSURES - PSIG			WELLHEAD PRESSURES - PSIG						
8 30 63	Big Injun	1	3	5	10	20	30	24HR.	48HR.	72HR.	MAX. PRESS	HOURS
		785	870	890	890	890	890	890	890	890	890	72 hr.
6 6 63	Big Injun	420	610								523	
MISC.	DEPTH MEASUREMENT TAKEN FROM: <input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Ground <input type="checkbox"/> Other (Specify) _____				DIST. TO GROUND 2 Feet		ELEVATION 1341.60 G.L.					
	LOGGED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	LOGGED BY (COMPANY)			DATE LOGGED							
REMARKS	Original 10" Casing Cemented in Annulus thru 1 1/2" pipe											
	Original 7" Casing Perforated at 1430' and Cemented to Surface											
	1900' of New 4 1/2" Tubing joined up to Original tubing and Cemented to Surface											
	W.O. 2301-L-2858-5 (ACTIVE STORAGE WELL - RECONDITIONED)											
APPROVED BY (DIVISION ENGINEER)		DATE		APPROVED BY (DIVISION SUPERINTENDENT)		DATE						
<i>David Woodruff</i>		9/27/63		<i>[Signature]</i>		9/27/63						

Attach additional sheets (Form PD-44b) and forward to Production Department - Pittsburgh General Office

Approved by *[Signature]* 10/3/63 10/29/2016
PRODUCTION - STORAGE DEPTS. - G.O. DATE

MAS

Division 5

Record of well No. 1400, on Mary Eider Farm 300 Acres
Majorsville Storage Field Webster Marshall County W. Va. State

Rig Commenced Sept. 13 1918 Completed Sept. 26, 1918

Drilling Commenced October 3, 1918 Completed November 22, 1918

Contractor Rawe Drilling Co. Address New Martinsville, W. Va.

Driller's Name Willard Lemasters, Wm. Perry Wayne Rawe

Pool Dressers- Archie Sole, J. E. Throckmorton, John Blati

CASING AND TUBING RECORD

Conductor	12"	10"	8 1/2"	7"	6 5/8"	5 1/2"	4"	3"
Used in Drlg. 16'		843'	1410'		1908'			
Left in well 16'		843'	1410'		1908'		1969'	

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		
6 5/8" 4 1/2"	1927'	Anchor							

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours	
						1	5	10	30	60				
11/22/18	80/10	Mercury	1 1/2"	6,286.030	Rig Injunc	220	302	312	330	340	368			

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Clay	0	16	16	
Slate	16	35	19	
Lime	35	50	15	
Slate	50	120	70	
Red Rock	120	135	15	
slate	135	175	40	
Lime	175	190	15	
Slate	190	210	20	
Sand	210	255	45	
Slate	255	280	25	
Lime	280	290	10	
Slate	290	320	30	
Lime	320	330	10	
Slate	330	370	40	
Lime	370	380	10	
slate	380	400	20	
Lime	400	410	10	
Slate	410	415	5	
Showing of coal	415	418	3	
Lime	418	458	40	
Slate	458	480	22	
Lime	480	500	20	
Sand	500	520	20	
Slate	520	530	10	
Lime	530	688	158	
Slate	688	692	4	
Mapletown Coal	692	694	2	
Slate	694	698	4	

Examined above information and measurements and found to be correct by

Examined and Approved by

Rawe Drilling Co. Contractor

Chas. O. [Signature] Field Superintendent

NOTE-The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

04/29/2016

THE MANUFACTURERS LIGHT & HEAT CO
Company

Division 5
Record of well No. 11001 on May Elder Farm 300 Acres
Majorville Storage Field Webster Marshall County W. Va. State
Rig Commenced 19 Completed 19
Drilling Commenced 19 Completed 19
Contractor _____ Address _____
Driller's Name _____

CASING AND TUBING RECORD

Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"
Used in Drig.								
Left in well								

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size O-Rifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours
						1	3	10	30	60			

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Lime	698	780	82	
Slate & Shells	780	797	17	
Pittsburgh Coal	797	803	6	S. L. M. 803
Lime	803	810	7	
Slate	810	822	12	
Lime	822	840	18	
Slate	840	860	20	
Red Rock	860	870	10	
Slate & Shells	870	890	20	
Red Rock	890	898	8	
Lime	898	915	17	
Red Rock	915	950	35	
Lime	950	965	15	
Red Rock	965	980	15	
Slate	980	992	12	
Lime	992	1015	23	
White Slate	1015	1050	35	
Red Rock	1050	1072	22	
Slate	1072	1095	23	
Lime	1095	1104	9	
Slate	1104	1123	19	
Lime	1123	1137	14	
Slate	1137	1160	23	
Little Dunkard Sand	1160	1170	10	
Slate	1170	1197	27	
Lime	1197	1210	13	
Slate	1210	1280	70	
Rig Dunkard	1280	1302	22	

Examined above information and measurements and found to be correct by

Howe Drilling Co. Contractor

Examined and Approved by

[Signature] Field Superintendent

NOTE - The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

04/29/2016

Division 5

Record of well No. 11001 on May Elder Farm 300 Acres

Majorsville Storage Field Webster Township District Marshall County W. Va. State

Rig Commenced 19 Completed 19

Drilling Commenced 19 Completed 19

Contractor Address

Driller's Name

CASING AND TUBING RECORD

Conductor	13"	10"	8 1/4"	7"	6 3/8"	5 3/16"	4"	3"
Used in Drilling								
Left in well								

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours
						1	5	10	30	60			

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Slate	1302	1335	33	
Lime	1335	1355	18	
Slate	1353	1365	12	
Lime	1365	1375	10	
Slate 1/2	1375	1398	23	
Sand	1398	1505	107	
Slate	1505	1510	35	
Sand	1510	1610	70	Show of gas 1552-1555
Slate	1610	1632	22	
Lime	1632	1650	18	
Slate	1650	1725	75	
Sand	1725	1798	73	Water 1775 - 1785
Black Slate	1798	1805	7	
Lime	1805	1857	52	
Slate	1857	1870	13	
Lime	1870	1885	15	S. L. M. 1898
Slate	1885	1891	6	Gas 1971 to 1968
Big Injun Sand	1891			80/10 mercury in 1" = 6.586, 080 Cu. ft.
Pay Sand	1974	1968		
Total depth		1978		

MINUTE PICKUP TEST IN 1" TUBING

1	2	3	4	5	6	7	8	9	10	15	30	15	30	2 1/2 hr.	
220	275	290	295	302	305	307	310	311	312	320	330	335	340	368	
Tubing Record-----												Thrd. on	Perforation	25'	2"
													Perforation	25'	2"
													Packer 3'	8"	
													Tubing 80 fts.	1939'	7"
													Total	1989'	11"

Examined above information and measurements and found to be correct by

Examined and Approved by

Russell Drilling Co. Contractor

Field Superintendent

NOTE - The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment, a bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

04/29/2016

Form PD-14 CSO COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES (Rev. 1-61)

NOTICE OF WELL STATUS CHANGE

COMPANY: **The Manufacturers Light & Heat Company** FIELD: **Majorville** DIV: **5** FOREIGN WELL NO.: **L-100h** COMPANY WELL NO.: **L-100h**

FARM NAME: **My Elder** ADDRESS: **Webster** CITY: **Marshall** STATE: **W. Va.** COUNTY: **Lincoln** ACRES: **96** DATE COMR: **9 12 1953**

LAST ACTIVE WELL ON FARM: YES NO THIS BLOCK FOR GENERAL OFFICE USE ONLY: BURNED LEASE REUSE LEASE OTHER

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 Retained Abandoned

RECONDITIONED Retained Abandoned

RECONDITIONED & TRANSF. TO STORAGE

TRANSFERRED TO Production Storage

PURCHASED FOR Production Storage

DRILLED DEEPER

PLUGGED AND ABANDONED

SOLD

Records

OCT 15 1963

COMPLETION DATA (If applicable)

Reconditioned to **1978** into **Big Injun** well. If Yes, to depth of **690** feet. No Yes

TYPE OF TREATMENT: None Yes. Type of treatment: _____

BEFORE TREATMENT: On ice well, casing Final Test Other (Specify) _____

OPEN: In Out Storage Other (Specify) _____

TEST: Final Other (Specify) Side Static

READING: **10,695,000** cubic feet per day **690** depth **72** checks

AUTHORIZATION FOR WORK PERFORMED

By Order Number _____

By Order Number **2301-1-2850-5**

Abandonment Order Number _____

WORK PERFORMED BY: **Hoss Hurts**

Checked by: **A. Schifer** Date: **9/16/63**

Checked by: **D. Gunter** Date: **9/27/63**

DEPARTMENT		For General Office Use	
DEPARTMENT	SECTION	NOTED BY	DATE
PRODUCTION	Production	<i>[Signature]</i>	
	Storage	<i>[Signature]</i>	
	Other	<i>[Signature]</i>	10 15 1963
LAND OPERATING		<i>[Signature]</i>	10 14 1963
TREASURY	Land Accounting	<i>[Signature]</i>	10 18 1963
CIVIC ENGINEERING	Plant Accounting	<i>[Signature]</i>	10 14 1963

Return to Land Operating Department for filing

THE MANUFACTURERS LIGHT & HEAT CO.
Company

Division: 5
Record of well No. 1001 on: Mary Elder Farm: 100 Acres

Well: 1001 Starke Field, West of Marshall, Carroll County, N. Va. State

Drilling Commenced: Sept. 11, 1908 Completed: Sept. 26, 1908
 Drilling Completed: October 3, 1908 Completed: November 20, 1908

Contractor: Rowe Drilling Co. Address: New Martinsville, W. Va.

Driller's Name: Willard Lowstars, now Perry Wayne Rowe
 Tool Dressers: Arc'le Sole, J. H. Threshwartin, John Blise

CASING AND TUBING RECORD

Depth	Material	Weight	Length	Notes
100	8 1/2"	11.10	1908	
135	8 1/2"	11.10	1908	

PACKING RECORD

Depth	Material	Weight	Length	Notes
1027 1/2	Anchor			

VOLUME AND PRESSURE

Depth	Volume	Time	Pressure	PRESSURE IN BARREL						
				1	2	3	4	5	6	
1027 1/2	80/10	Mercury	1"	0.26	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

Stratification	Top	Bottom	Thickness	Permeability
City	0	30	15	
Slate	30	45	15	
Clay	45	50	15	
Slate	50	120	70	
Red Rock	120	135	15	
Slate	135	175	40	
Clay	175	190	15	
Slate	190	210	20	
Sand	210	255	45	
Slate	255	280	25	
Clay	280	290	10	
Slate	290	320	30	
Clay	320	330	10	
Slate	330	370	40	
Clay	370	380	10	
Slate	380	400	20	
Clay	400	410	10	
Slate	410	415	5	
Shedding of coal	415	448	33	
Clay	448	468	20	
Slate	468	480	12	
Clay	480	500	20	
Sand	500	520	20	
Slate	520	530	10	
Clay	530	560	30	
Slate	560	592	32	
Unstratified Clay	592	600	8	
Slate	600	600	0	

Contractor: **Rowe Drilling Co.** Field Superintendent: *[Signature]*

Witnessed by: *[Signature]*

THIS WELL IS THE PROPERTY OF THE MANUFACTURERS LIGHT & HEAT CO. AND IS TO BE KEPT OPEN AT ALL TIMES. THE WELL IS TO BE KEPT OPEN AT ALL TIMES. THE WELL IS TO BE KEPT OPEN AT ALL TIMES.

U.S. Department of Environmental Protection

04/29/2016

THE MANUFACTURING LIGHT & HEAT CO.
Company

Record of well No. 1000 on Map Elder Farm 300 Acres 1000

Majorville Station Field Yakobson Marshall County W. Va. State

Rig Commenced 19 Completed 19

Drilling Commenced 19 Completed 19

Contractor _____ Address _____

Driller's Name _____

CASING AND TUBING RECORD

Depth	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"
Feet									

TESTING RECORD

Depth	Pressure	Flow	Time	Remarks

VOLUME AND PRESSURE

Depth	Pressure	Flow	PRESSURE IN PSI					Remarks
			10'	20'	30'	40'	50'	

TOTAL INITIAL OPEN FLOW

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Line	638	780	82	
Slits & shells	780	797	17	
Claystone coal	797	805	6	S. L. M. 805
Line	805	810	7	
Slits	810	822	12	
Line	822	840	18	
Slits	840	860	20	
Red rock	860	870	10	
Slits & shells	870	890	20	
Red rock	890	898	8	
Line	898	915	17	
Red rock	915	950	35	
Line	950	965	15	
Red rock	965	980	15	
Slits	980	992	12	
Line	992	1015	23	
White slits	1015	1050	35	
Red rock	1050	1072	22	
Slits	1072	1085	13	
Line	1085	1100	15	
Slits	1100	1123	23	
Line	1123	1137	14	
Slits	1137	1160	23	
Little Bedford sand	1160	1170	10	
Slits	1170	1197	27	
Line	1197	1210	13	
Slits	1210	1280	70	
Red sandstone	1280	1302	22	

Examined and approved by _____ Contractor _____ Field Superintendent _____

NOTE: The above is to be used only by the contractor, with a complete and satisfactory record of the work, and approved, when presented the balance of the well log and the test results and a copy sent to the State Department of Geology, with the log and test results, and under the title of "Records" must be retained in the files of the State Department of Geology.

4705100192

1) Date: March 18, 2016
2) Operator's Well No. SGW-156
3) API Well No. 47-51-00192
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 China berry 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 30th day of March, 20 16

Joseph E Williams Notary Public

Marshall County, State of West Virginia

My commission expires June, 20 24



APR 13 2016

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.

04/29/2016

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

4705100192
**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

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

04/29/2016

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

4705100192

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 1344.58' 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

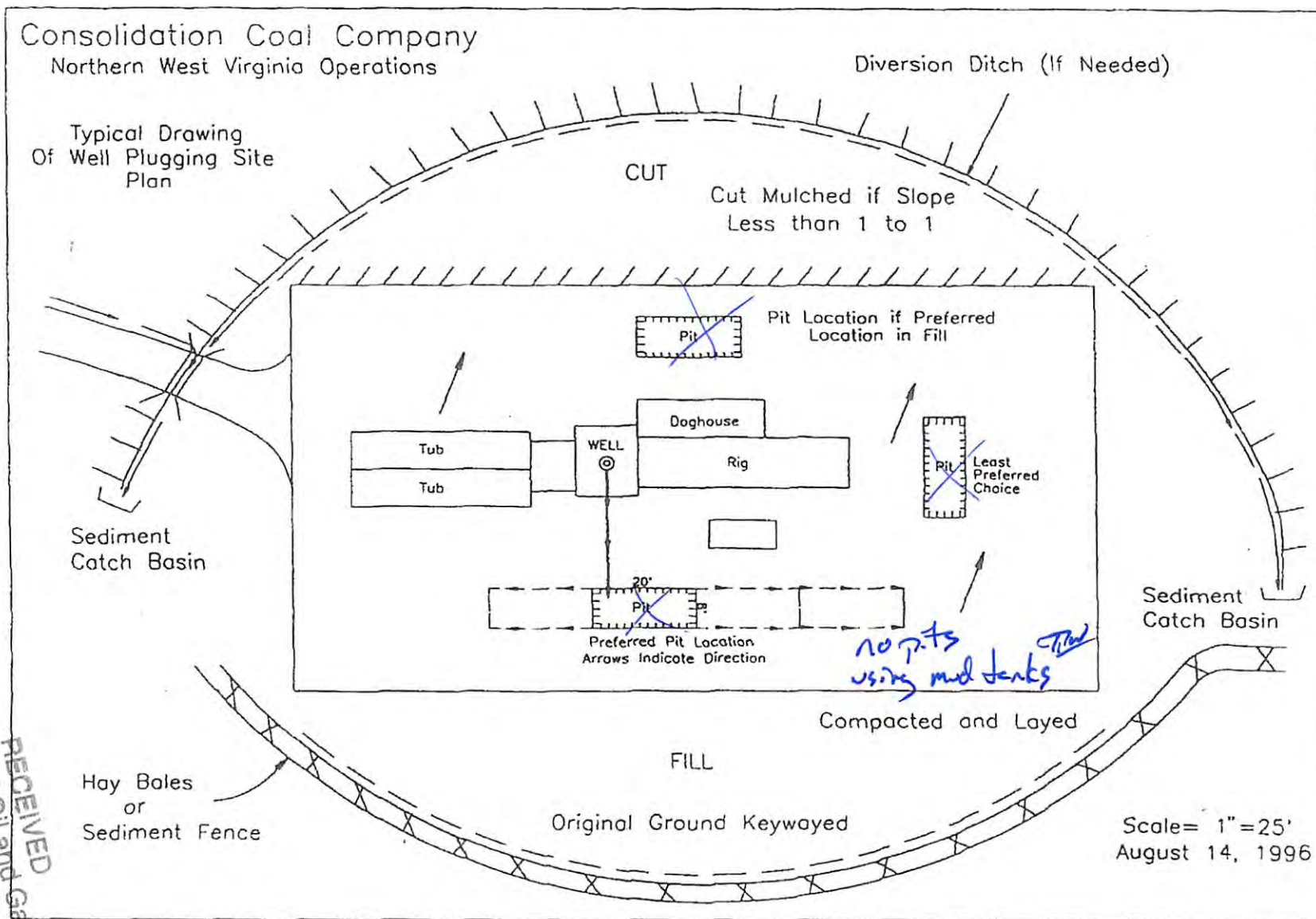
Joseph E. Williams Notary Public

My commission expires June 5th, 2024



Consolidation Coal Company
Northern West Virginia Operations

Typical Drawing
Of Well Plugging Site
Plan



RECEIVED

Office of Oil and Gas

APR 13 2016

Department of
Environmental Protection
West Virginia Department of
Environmental Protection

4705100192



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

API: 47-051-00192 WELL NO.: SGW-156

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: 4,420,663 m

UTM GPS EASTING: 539,593 m GPS ELEVATION: 410 m

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.

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

[Signature]
Signature
March 18, 2016
Date

Professional Surveyor
Title

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

LATITUDE
39° 57' 30"

47 05 100 192

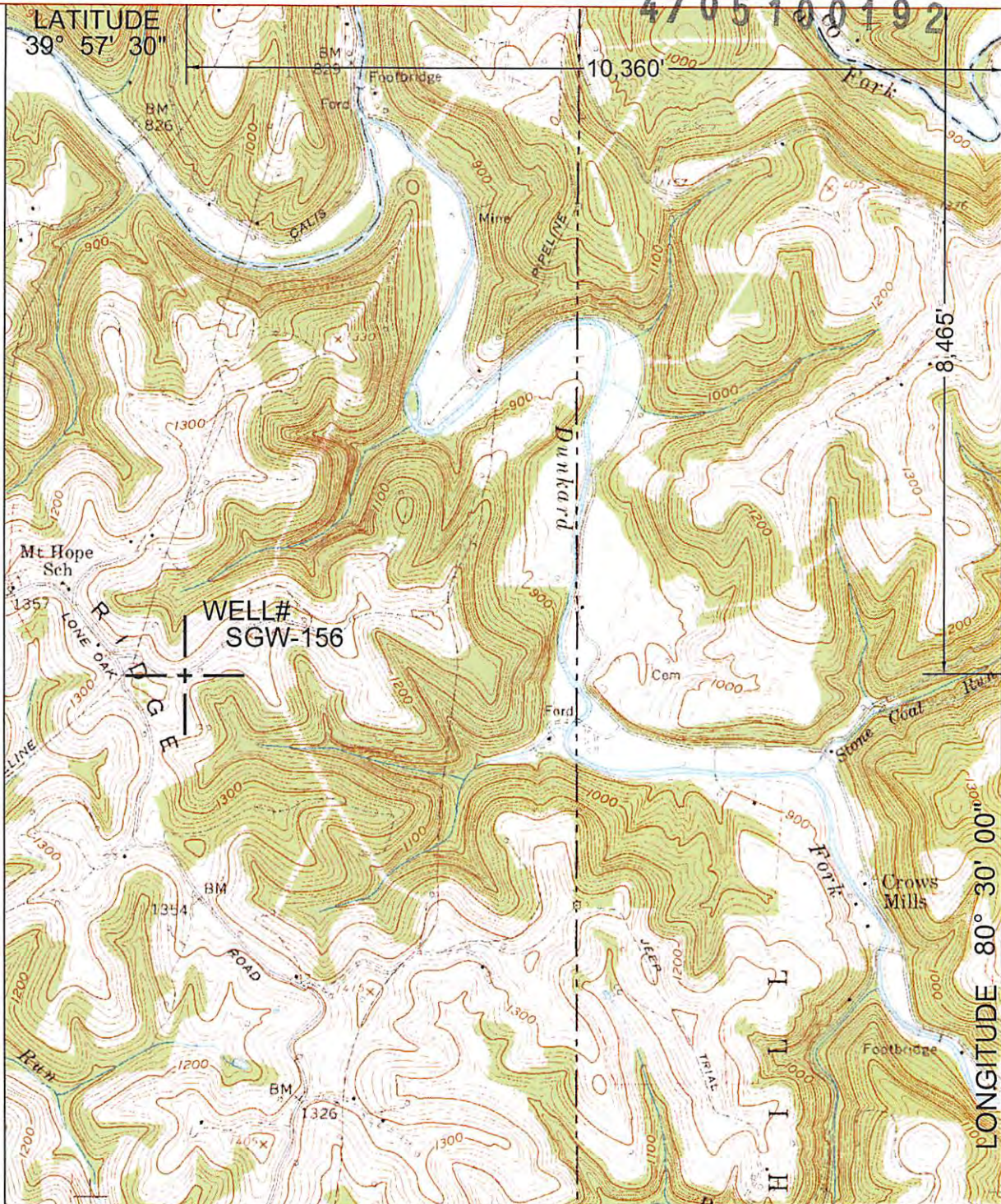
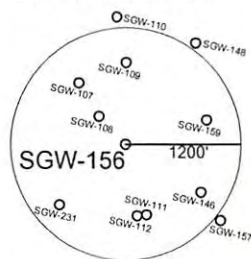
10,360'

8,465'

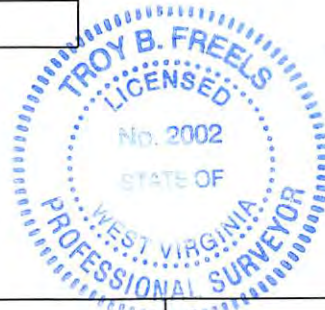
LONGITUDE 80° 30' 00"

NORTH

SURROUNDING WELLS
WITHIN 1200' RADIUS



UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,420,663 METERS	39° 56' 06.3" N
EASTING 539,593 METERS	80° 32' 12.5" 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 18, 20 16
OPERATORS WELL NO. SGW-156
API WELL NO. 47 - 51 - 00192 P
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 DEPARTMENT OF OIL AND GAS
OFFICE OF OIL AND GAS
601 57TH ST., CHARLESTON, WV 25304
APR 13 2016



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

LOCATION: ELEVATION: 1344.58' 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: _____

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

04/29/2016

LATITUDE
39° 57' 30"

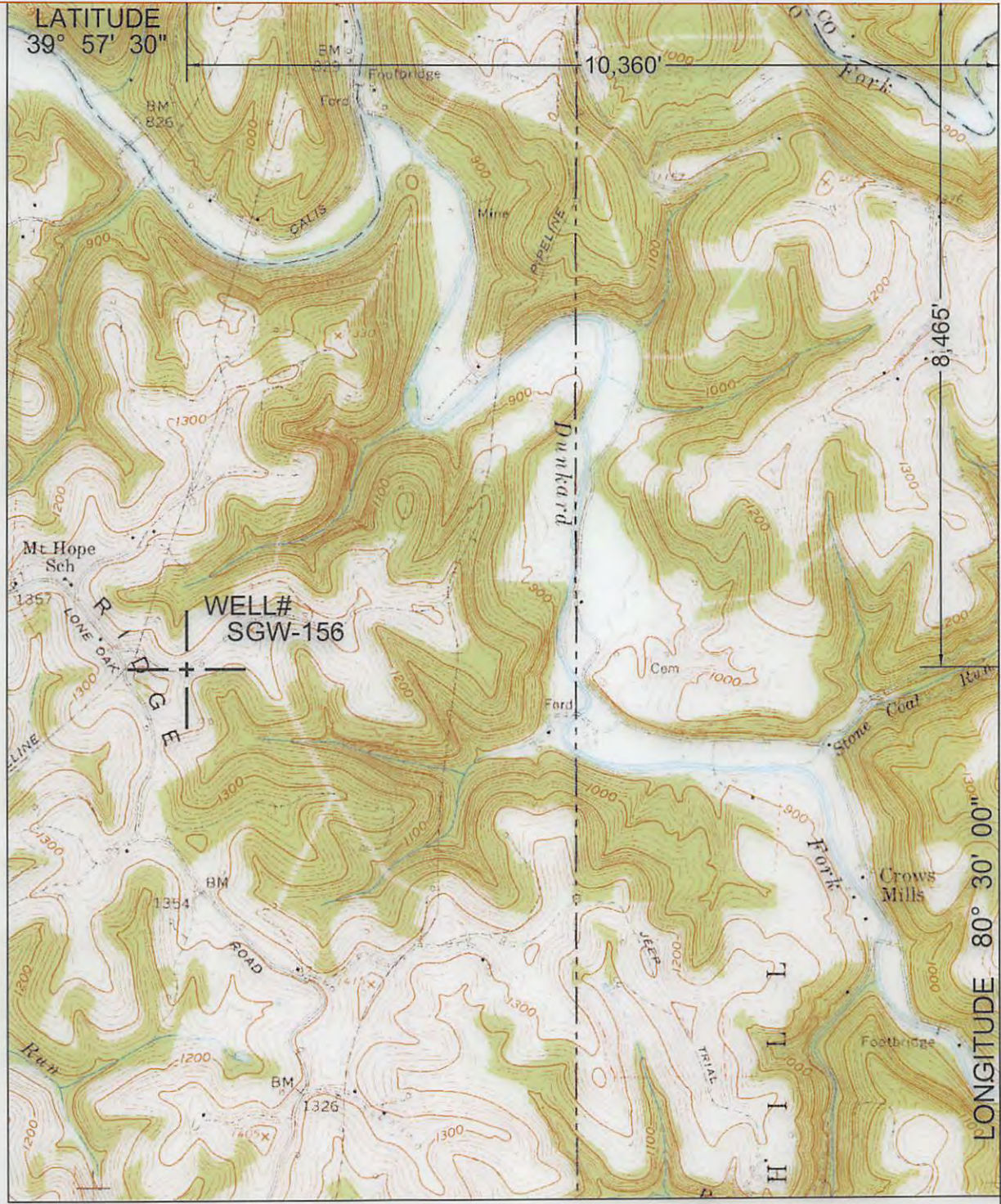
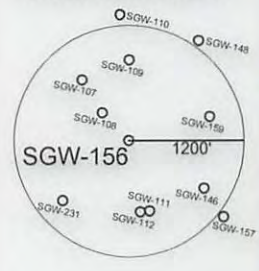
10,360'

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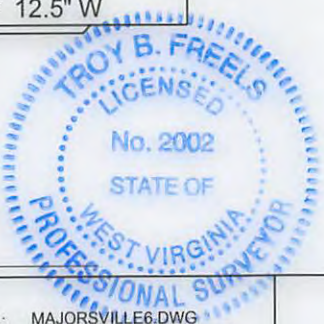
LONGITUDE 80° 30' 00"

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SURROUNDING WELLS
WITHIN 1200' RADIUS



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P.S. 2002

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

DATE MARCH 18, 20 16
OPERATORS WELL NO. SGW-156
API WELL NO. 47 - 51 - 00192
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 2500
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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 LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

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DISTRICT: WEBSTER COUNTY: MARSHALL QUADRANGLE: MAJORSVILLE, WV-PA 7.5' ACREAGE: 96± ACRES
SURFACE OWNER: BRIAN K. MILLIKEN LEASE ACREAGE: LEASE NO.: 04/29/2016
ROYALTY OWNER: PROPOSED WORK: DRILL: CONVERT: DRILL DEEPER: REDRILL: FRACTURE OR STIMULATE: PLUG OFF OLD: PLUG AND ABANDON: X 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