



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: 47-5100541, 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: 4850
Farm Name: CROW, JOHN
API Well Number: 47-5100541
Permit Type: Plugging
Date Issued: 04/26/2016

Promoting a healthy environment.

04/29/2016

PERMIT CONDITIONS

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

CONDITIONS

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

4705100541P

1.) Date: March 24, 20 16
2.) Operator's Well No. SGW-146
3.) API Well No. 47 - 51 - 00541
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: 1259.74' Watershed: Dunkard Fork of Wheeling Creek
District: Webster County: Marshall Quadrangle: Majorsville, WV-PA 7.5'

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

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

10.) WORK ORDER: The work order for the manner of plugging this well is as follows: Mine Permit U-1025-91
Revision 27, and 31

Coal at 705'-711' SEE EXHIBIT NO. 1
Plug from attainable bottom to 911' with class A expanding cement
After plug #1 101C exemption applies

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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APR 13 2016
WV Department of Environmental Protection
04/29/2016

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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WV Department of
Environmental Protection
APR 29 2016

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U. S. Department of Labor
OCT 17 1990

W. J. SCHELLER

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

OCT 17 1990.

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

Petition for Modification

Docket No. M-90-066-C

PROPOSED DECISION AND ORDER

On April 24, 1990, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Shoemaker Mine and Ireland Mine, both located in Marshall County, West Virginia. The Petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

MSHA personnel conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition, comments, and MSHA's investigative report and recommendation, this Proposed Decision and Order is issued.

Finding of Fact and Conclusion of Law

The alternative method proposed by the Petitioner (as amended by the recommendations of MSHA investigators) will at all times guarantee no less than the same measure of protection afforded the miners under 30 CFR 75.1700.

On the basis of the petition and the findings of MSHA's investigation, Consolidation Coal Company is granted a modification of the application of 30 CFR 75.1700 to its Shoemaker Mine and Ireland Mine.

ORDER

Wherefore, pursuant to the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and pursuant to Section 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C., sec. 811(c), it is ordered that Consolidation Coal Company's Petition for Modification of the application of 30 CFR 75.1700 in the Shoemaker Mine and Ireland Mine is hereby:

GRANTED, conditioned upon compliance with all provisions of the Petitioner's alternative method and the following terms and conditions:

- I. Procedures to be utilized when plugging gas or oil wells.
 - (a) Cleaning out and preparing oil and gas wells.

Prior to plugging an oil or gas well, the following procedure shall be followed:

 - (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest mineable coalbed.
 - (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest mineable coalbed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
 - (4) A suite of logs shall be made consisting of a caliper survey directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest mineable coalbed and potential hydrocarbon producing strata and the location for the bridge plug.
 - (5) If the uppermost hydrocarbon-producing stratum is within 200 feet of the base of the lowest mineable coalbed, properly placed mechanical bridge plugs or a suitable brush

plug described in subparagraph (a)(3) shall be used to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest mineable coalbed.

- (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and densifies the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
- (b) Plugging oil or gas wells to the surface. The following procedures shall be utilized when plugging gas or oil wells to the surface:
- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest mineable coalbed to the surface with an expanding cement plug extending from at least 200 feet below the lowest mineable coalbed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.
- (c) Plugging oil or gas wells using the vent pipe method. The following procedures shall be utilized when using the vent pipe method for plugging oil and gas wells:
- (1) A 4 1/2-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest mineable coalbed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet

above the bottom of the cleaned out area of the borehole or bridge plug.

- (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expanding cement for a minimum of 200 feet below the base of the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest mineable coalbed.
 - (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
 - (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- (d) Plugging oil and gas wells for use as degasification boreholes. The following procedures shall be utilized when plugging oil or gas wells for subsequent use as degasification boreholes:
- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point above the top of the coalbed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.
 - (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
 - (3) The annulus between the degasification casing and the borehole wall shall be cemented from

a point immediately above the slots or perforations to the surface.

- (4) The degasification casing shall be cleaned out for its total length.
 - (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shutin valves, sampling ports, flame arrestor equipment, and security fencing.
- II. The following procedures shall apply to mining through a plugged oil or gas well:
- (a) The operator shall notify the District Manager or designee:
 - (1) Prior to mining within 300 feet of the well; and
 - (2) When a specific plan is developed for mining through each well.
 - (b) The MSHA District Manager or designee shall conduct a conference prior to mining through any plugged well to review and approve the specific procedures for mining through the well. Representatives of the operator, the representative of the miners, and the appropriate State agency shall be informed, within a reasonable time prior to the conference, and be given an opportunity to attend and participate. This meeting may be called by the operator.
 - (c) Mining through a plugged well shall be done on a shift approved by the District Manager or designee.
 - (d) The District Manager or designee, representative of the miners, and the appropriate State agency shall be notified by the operator in sufficient time prior to the mining through operation in order to have an opportunity to have representatives present.
 - (e) When using continuous or conventional mining methods, drivage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well, and again if

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

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

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

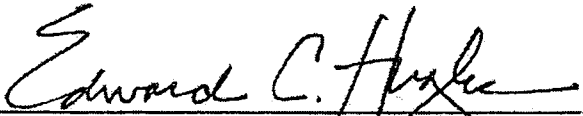
- (l) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall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

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

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

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

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


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

Certificate of Service

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

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

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

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

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


MARY ANN GRIFFIN
Mine Safety Clerk

06-10

40-00
3-43



4705100541P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 6

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well Gas

Range Cameron
Permit No. MARS-541

WELL RECORD

Company The Manufacturers Light & Heat
Address 800 Union Trust Bldg., Pgh., Pa.
Farm John Crow Area 330
Location (waters) _____
Well No. 4850 Elev. 1261.54
District Webster County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 1-4-71
Drilling completed 2-5-71
Date Shot --- From --- To ---
With _____
Open Flow 10ths Water in _____ Inch
23" 10ths Merc. in 1 1/2" Pitot Tube Inch
Volume 9,250,000 9,250 M Cu. Ft.
Rock Pressure 460 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packerc
16			None
13 3/8"	96'	96'	
10 3/4"	741'	741'	Size of ---
8 5/8"	1358'	1358'	Depth set. ---
6 5/8"			
5 3/16"			
4 1/4"			
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 10" SIZE 741' No. Ft. 1-19-71 Date 1-8-71
Amount of cement used (bags) 100 sks-18"; 175 sks-10"
Name of Service Co. Halliburton Service
COAL WAS ENCOUNTERED AT 705 FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____ 9,250,000
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water 30' and 92' Feet _____ Salt Water _____ Feet _____
Producing Sand 1st Salt Sand _____ Depth 1467' - 1475'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	32	Water-30'		
Red Rock			32	37			
Slate			37	49			
Lime			49	55			
Slate			55	79			
Lime			79	99	Water-92'		
Slate			99	101			
Sand			101	111			
Slate			111	167			
Lime			167	186			
Red Rock			186	192			
Lime			192	206			
Slate			206	214			
Lime			214	230			
Slate			230	233			
Coal			233	235			
Lime & Slate			235	275			
Slate			275	310			
Lime			310	330			
Slate & Lime			330	360			
Coal			360	363			
Slate & Lime			363	395			
Black Slate			395	415			
Lime & Slate			415	430			
Mapletown Lime			430	585			
Slate & Lime			585	705			
Pittsburgh Coal			705	711			
Slate & Shells			711	711			

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(over)

WV Department of Environmental Protection
MAR 13 1971

4705100541P

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			741	784			
Red Rock			784	789			
Slate & Shells			789	850			
Lime			850	870			
Red Rock			870	880			
Slate & Shells			880	930			
Lime			930	946			
Red Rock			946	954			
Slate & Shells			954	987			
Lime			987	1000			
Slate & Shells			1000	1045			
Coal			1045	1048			
Lime			1048	1062			
Slate & Shells			1062	1075			
Lime			1075	1115			
Slate & Shells			1115	1120			
Lime			1120	1195			
Slate & Shells			1195	1235			
Lime			1235	1291			
Slate			1291	1313			
Gritty Lime			1313	1320			
Slate & Shells			1320	1329			
Sand			1329	1335			Show of Gas 1332
Slate & Shells			1335	1350			
Sand			1350	1410			
Slate & Shells			1410	1464			Hole reduced - 1450 to 63/8" Steel Line measurement 1465
1st Salt Sand			1464	1477			
TOTAL DEPTH				1477			Gas pay zone 1467 to 1475

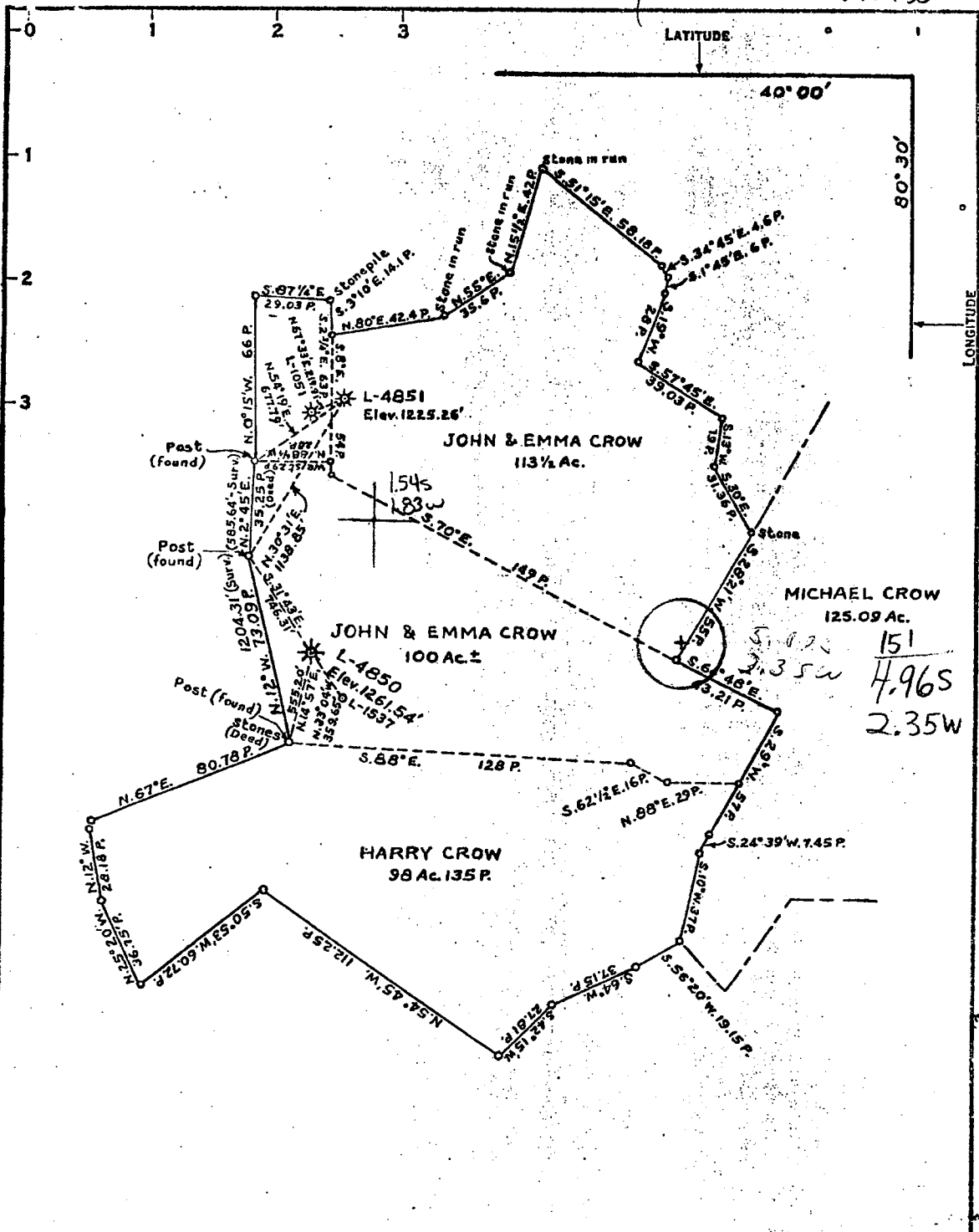
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Date March 1 Office of Oil and Gas

APPROVED THE MANUFACTURERS LIGHT & HEAT CO. Owner

By *[Signature]*
Municipal, Board, Environmental Department of

WV Department of Environmental Protection
04/29/2016



COAL OWNED BY Ewing B. Pollock, Manor Real Est. Co.,
Monongalia Improvement Co.

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
Minimum degree of accuracy is one part in _____

Signed *Jake C. Snyder* P. 7842 E

COMPANY The Manufacturers Light & Heat Co.
 ADDRESS 800 Union Trust Bldg., Pittsburgh, Pa. 15219
 FARM John Crow
 MAP 0-25/10 ACRES 330 LEASE NO. L-2900
 WELL (FARM) NO. _____ SERIAL NO. L-4850
 ELEVATION (SPIRIT LEVEL) 1261.54'
 QUADRANGLE Cameron, W. Va. - Pa. - NE
 COUNTY Marshall DISTRICT Webster
 POINT OF PROVEN ELEVATION BM A125 1251 1st. SW
corner of yard of Mt. Hope Methodist Church
 FILE NO. _____ DRAWING NO. Y-28-7152A
 DATE 19 Oct. 1970 SCALE 1" = 800'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 RECEIVED
 WELL LOCATION MAP
 FILE NO. T. Davis APR 18 2016
 Department of Environmental Protection

WELL LOG SUMMARY

LOCATION	COMPANY	MANUFACTURERS LIGHT AND HEAT		DIV.	FIELD	WELL NO.
	FARM NAME	ACRES	LEASE NO.	DISTRICT	COUNTY	STATE
	John & Emma Crow	330	L-2900	Webster	Marshall	W. Va.
TOPO. MAP	Quadrangle		Ft.		of	
	M 830 ASVILLE		Ft.		of	

CONTRACTOR	CONTRACTOR'S NAME	Company Machine No. L-4343		Drilled from	0	Ft. to	1477	Ft.
	ADDRESS			Type of Rig	Cable Tool - Spudder			
	DATE DRILLING COMMENCED	DATE WELL COMPLETED	COMPLETED TOTAL DEPTH		TYPE COMPLETION			
	1/4/71	2/5/71	1477		Open Hole			

HOLE SIZE	BIT GAUGE (Inches)	17	12 1/2	10
	FROM - TO (Feet)	0 - 96	96-741	741-1358
CASING AND TUBING	SIZE (O.D.)	13 5/8"	10 3/4"	8 5/8"
	WEIGHT / FOOT	48#	32.75#	24#
	STEEL GRADE	H-40	H-40	J-55
	COUPLING TYPE	Short	Short	Short
(All Measurements less threads)	SETTING DEPTH	95'-7"	740'-10"	1358'-4"
	LEFT IN HOLE	95'-7"	740'-10"	1358'-4"

CEMENT	NUMBER OF SACKS	100	175
	TYPE	50/50 portix 1	
	WEIGHT (# Gal.)	14.1	14.5
	RETURN TO SURFACE (Yes-No)	Yes	Yes
CEMENTING SHOE OR PACKER	PLUG DOWN PRESSURE	None	700#
	MANUFACTURER		
	TYPE		
	SIZE		
	SETTING DEPTH		

WELL STIMULATION (Attach Completed Form PD-17 - "Well Stimulation Report" if applicable)	TREATMENT	TYPE	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW-MCF/DAY	PERFORMED BY	DATE
				From			
				To	Before		
					After		

OPEN FLOW TESTS	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING (INCHES)	OPEN FLOW	
	2 5 71	1st salt sand	From 1467' To 1475'	Pitot Tube	23" Mer.	4 1/2	MCF/DAY	HRS. BLOWN
			From					
			To					

WELLHEAD PRESSURE TESTS	DATE GAUGED	FORMATION	MINUTE PRESSURES - PSIG					WELLHEAD PRESSURES - PSIG					
	2 5 71	1st salt sand	1	3	5	10	20	30	24HR.	48HR.	72HR.	MAX. PRESS	HOURS
						450					460		

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
	LOGGED	LOGGED BY (COMPANY)	DATE LOGGED	
	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		

Well drilled on Budget Number 2005. 8 5/8" casing aquagelled with 10 bags from 1358' - 4" to the surface.

APPROVED BY (DIVISION ENGINEER)	DATE	APPROVED BY (DIVISION SUPERVISOR/AGENT)	DATE
<i>[Signature]</i>	2/24/71	<i>[Signature]</i>	APR 12 2016

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

Approved by

PRODUCTION - STORAGE DEPTS. - G.O.

RECEIVED
Office of Oil and Gas
WV Department of Environmental Protection
DATE 04/29/2016

WELL LOG SUMMARY

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Clay	0	32		Water 30'
Red Rock	32	37		
Slate	37	49		
Lime	49	55		
Slate	55	79		
Lime	79	99		Water 92'
Slate	99	101		
Sand	101	111		
Slate	111	167		
Lime	167	186		
Red Rock	186	192		
Lime	192	206		
Slate	206	214		
Lime	214	230		
Slate	230	233		
Coal	233	235		
Lime & Slate	235	275		
Slate	275	310		
Lime	310	330		
Slate & Lime	330	360		
Coal	360	363		
Slate & Lime	363	395		
Black Slate	395	415		
Lime & Slate	415	430		
Mapletown Lime	430	585		
Slate & Lime	585	705		
Pittsburgh Coal	705	711		Show Gas
Slate & Shells	711	741		
Lime	741	784		
Red Rock	784	789		
Slate & Shells	789	850		
Lime	850	870		
Red Rock	870	880		
Slate & Shells	880	930		

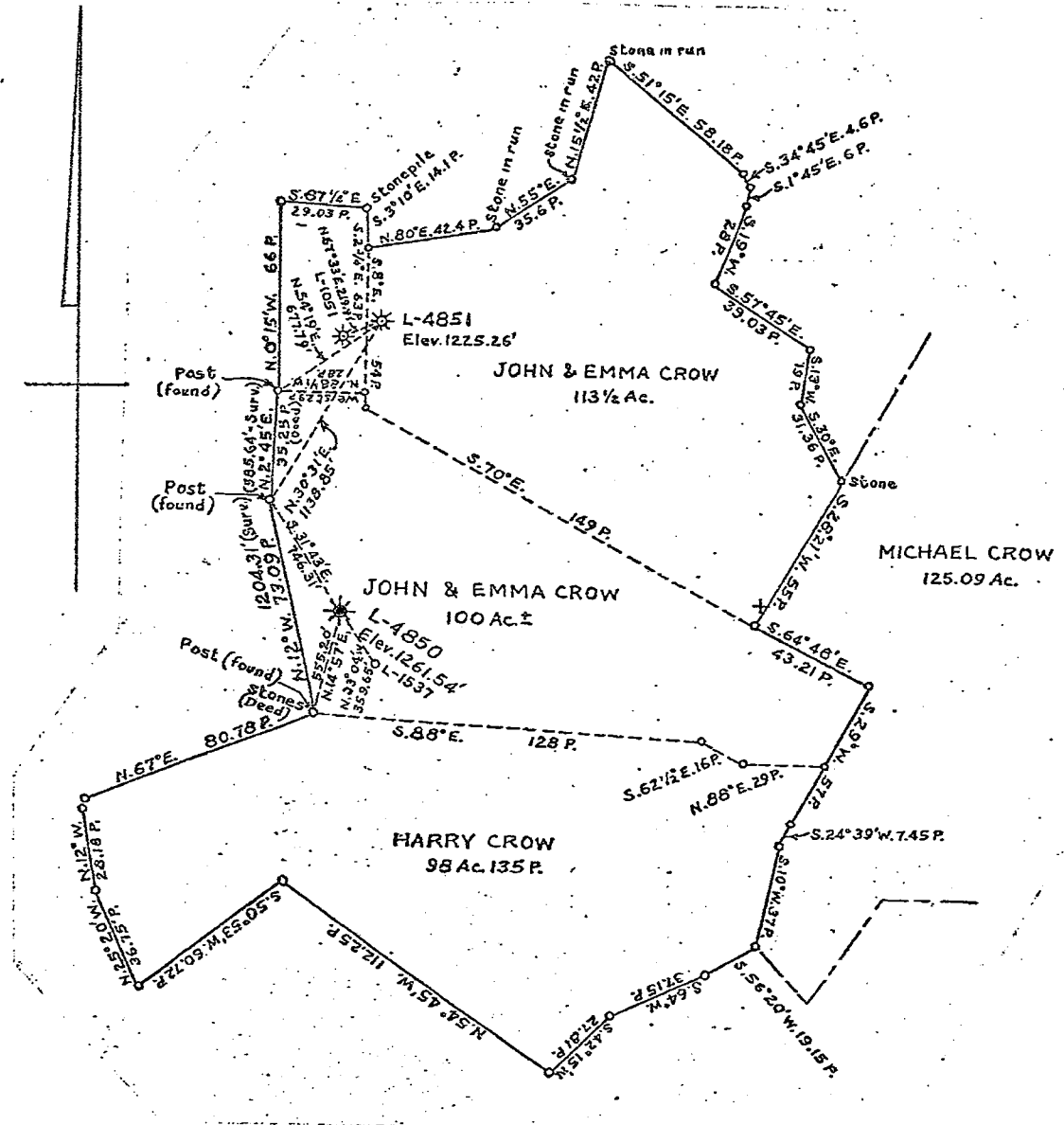
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Office of Oil and Gas

APR 13 2016

WV Department of
Environmental Protection
04/29/2016

WELL LOCATION PLAT

COMPANY The Manufacturers Light & Heat Company	WELL NO. L-4850	LEASE NO. L-2900	ACRES 330	WELL NO. ON FARM	BUDGET 2005
FARM NAME John Crow	DISTRICT, DOWNWOODS		COUNTY Marshall	STATE W. Va.	
BOUNDED ON THE	TYPE OF WELL		FOR		
NORTH BY D. Murray and Danley	<input type="checkbox"/> PRODUCTION	<input checked="" type="checkbox"/> NEW DRILLING	<input type="checkbox"/> REDRILL		
EAST BY Jacob Crow and M. Crow	<input checked="" type="checkbox"/> STORAGE	<input type="checkbox"/> DRILLING DEEPER	<input type="checkbox"/> RECONDITION		
SOUTH BY C. Dorsey	DATE LOCATED Oct. 4 1970		FIELD BOOK PAGE 1170	ENGINEER Jake C. Snyder	
WEST BY George Phillips and T. B. Elder	RIGHTS THRU COAL	STORAGE PRIVILEGE	ROYALTY \$200. Ann., Pay \$50.00	INVENTORY MAP NO. 0-25/10	
COAL OWNER Ewing B. Pollock, Manor Real Estate Co., Monongalia Improvement Company	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	RESERVATIONS 300 ft. from Buildings	DRAWING NO. Y-28-732A	SCALE 1"=800'



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TO _____ DIVISION SUPERINTENDENT LOCATION _____ DATE 19 Oct. 1970

You are hereby Authorized to Commence Work on the above Well at once.

Robert J. Marshall
Advt. Mgr., Land Leasing and Right of Way

Anne T. Cahill
Manager, Production and Environmental Protection
WV Department of Environmental Protection
04/29/2016

WELL ORDER COMPLETION
Final Report of Material Charged To and Used in Equipping Well

4705100541A

Forward Original to appropriate Supervisor (Production or Storage) - General Office

COMPANY The Manufacturers Light and Heat Company		TYPE WELL <input type="checkbox"/> Production <input checked="" type="checkbox"/> Storage		BUDGET NO. 2005	WELL NO. L-4850
FARM NAME J. E. Gize	DISTRICT Webster Dist.	COUNTY Marshall	STATE W. Va.	DATE COMMENCED 1 4 71	DATE COMPLETED 2 5 71
COMPLETED AS <input checked="" type="checkbox"/> Producing Well <input type="checkbox"/> Dry Hole	DEPTH 1177	OPEN FLOW-MCF 9,250.0	ROCK PRESSURE 160 Psig/ 72 Hrs.	PRODUCING FORMATIONS First Salt Sand	
MATERIAL TRANSFER AND PURCHASE ORDER NUMBERS	L & H, Div. 5 70, Dec. 213, 214, 215, 216, 217, 380, 381 Jan. 1971 370, 382, 383, Feb. 191, 105 L & H, Div. 5 June 1971 98, 99, 100, 253, 259, 320 April 1971 90, June 258, 259, 320, 330, 3-1, 4-12, 361, Oct. 66, Nov. 423, Jan. 1972, 38, 44 Halliburton cement 13" cas. 1-3-71 H.R. 314233 P.O. E-69177 150.40 Halliburton cement 10" cas. 1-19-71 H.R. 314234 P.O. E-69177 865.29				

QUANTITY	SIZE	DESCRIPTION
95'-7"	13-3/8"	Casing O.D. Sm. H 48 #
2	13-3/8"	Collars S. Sm. Aps
1	10-3/4" X 10"	Shoe casing
710'-10"	10-3/4"	Casing O.D. Sm. H 32 #
280	bags	Cement (Furnished by Halliburton to cement 13" and 10" casing)
1	8-5/8" X 8"	Shoe casing
1,358'-4"	8-5/8"	Casing O.D. Sm. J 24 #
5	bags	Jelflake Comp.
10	bags	Agriplast Comp.
Miscellaneous material used		
1/4"-0"	1/2"	Tubing used 12.60 #
2	5/8" X 7 1/2"	Bolt track head
2	5/8" X 7"	Bolt machine
32	3/8" X 5"	Bolt machine
10	Ibs.	Nails
1 Ib.	3/8"	Washers
30'-0"	1"	Grail coil
1		I row. - L - 400 - 8
1	GL-4498	Trouble lite
3	100	AHS.

PERFORMED BY L-4233	CONTRACTORS NAME OR MACHINE NO.	REMARKS
COMPILED BY K. E. Mahan	APPROVED BY (AS APPLICABLE) Howard G. Decker	APPROVED BY (DIVISION MGR.) RAS ORIGINAL SIGNED BY E. L. WALZ JR.
DATE 1 22 2012		DATE 1 22 2012

List above only material left in and at well including Casing, Tubing, Well head and all well connections, but not including Branch Lines and Drips. This report required only for those wells drilled on a well order.

Approved By _____ SUPERVISOR, PRODUCTION - STORAGE
 WV Department of Environmental Protection
 DATE **04/29/2016**

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WELL ORDER COMPLETION
Final Report of Material Charged To and Used in Equipping Well

Forward Original to appropriate Supervisor (Production or Storage) - General Office

COMPANY The Manufacturers Light and Heat Company		TYPE WELL <input type="checkbox"/> Production <input checked="" type="checkbox"/> Storage		BUDGET NO. 2005	WELL NO. 1-100
FARM NAME J. E. Cross		DISTRICT Wabash Dist.	COUNTY Marshall	STATE W. Va.	DATE COMMENCED 1 4 72
COMPLETED AS <input checked="" type="checkbox"/> Producing Well <input type="checkbox"/> Dry Hole		DEPTH 207	OPEN FLOW-MCF 5,250.0	ROCK PRESSURE 450 Psig/ 72 Hrs.	PRODUCING FORMATIONS First Salt Sand

MATERIAL TRANSFER AND PURCHASE ORDER NUMBERS

QUANTITY	SIZE	DESCRIPTION
6	5/8 x 1 1/2"	Bolt stud.
		Welding material used
200	5"	Copper
220	1"	Workpiece
		Material used for well head.
1	8" x 17"	Hi-Pressure Swedge BS
1	7"	Valve Orbit Pail opening
1	7" x 12"	Hi-Pressure Swedge BS.
1	2"	Ice Cr B .218
1	2"	Flange Wt S/30 W .218
1	2"	Gasket Ass. S/30
8	5/8 x 1 1/2"	Bolt Stud.
1	2" x 1 1/2"	Flange Drid. S/30
1	1/2"	Valve Caro. S. No. 10000 1107
1	1/2"	Flng Sqd.
1	2"	Flange Wt S/30 W .218
1	2"	Gasket Ass. S/30
8	5/8 x 1 1/2"	Bolt Stud.
1	2"	Valve Wt 2005 - 720
1	2"	Gasket Insulating S/30
8	5/8 x 1 1/2"	Bolt Stud
1	2"	Flange Wt. S/30 W .218

PERFORMED BY E. L. WALSH	CONTRACTOR'S NAME OR MACHINE NO.	REMARKS
COMPILED BY R. E. Mahon	APPROVED BY (AS APPLICABLE) Howard J. ...	APPROVED BY (DIVISION MGR.) RA ORIGINAL SIGNED BY E. L. WALSH

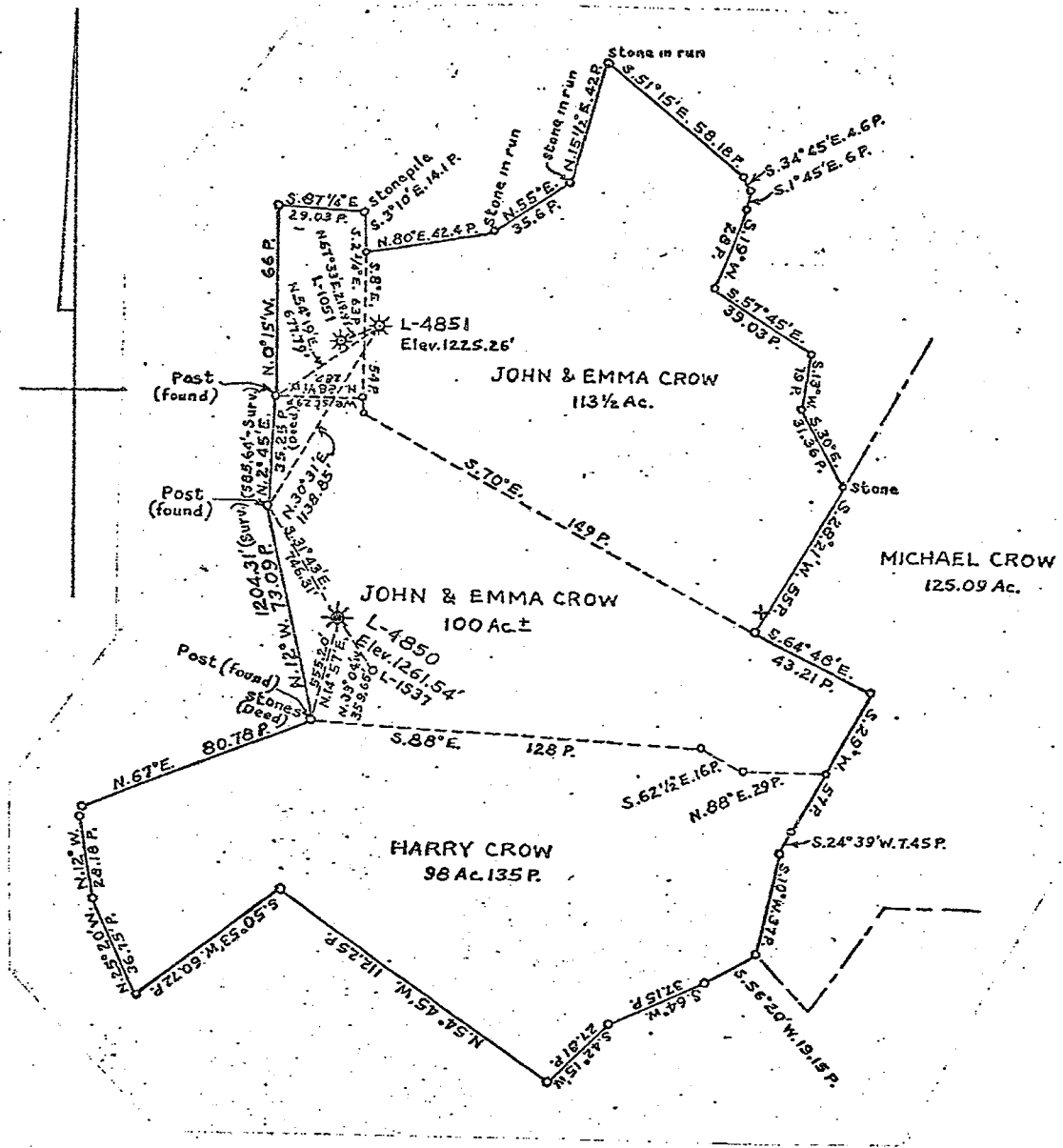
List above only material left in and at well including Casing, Tubing, Well head and all well connections, but not including Branch Lines and Drips. This report required only for those wells drilled on a well order.

Approved By _____ SUPERVISOR, PRODUCTION - STORAGE

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DATE 1 3 2016
1 29 1972
WV Department of
Environmental Protection
04/29/2016

COMPANY The Manufacturers Light & Heat Company	WELL NO. L-4850	LEASE NO. L-2900	ACRES 330	WELL NO. ON FARM	BUDGET 2005
FARM NAME John Crow	DISTRICT, TOWNSHIP & RANGE Webster	COUNTY Marshall	STATE W. Va.		
BOUNDED ON THE	TYPE OF WELL	FOR	<input type="checkbox"/> REDRILL <input type="checkbox"/> RECONDITION <input type="checkbox"/> PURCHASE		
NORTH BY D. Murray and Danley	<input type="checkbox"/> PRODUCTION	<input checked="" type="checkbox"/> NEW DRILLING			
EAST BY Jacob Crow and M. Crow	<input checked="" type="checkbox"/> STORAGE	<input type="checkbox"/> DRILLING DEEPER			
SOUTH BY C. Dorsey	DATE LOCATED Oct. 4 1970	FIELD BOOK, PAGE 1170	61	ENGINEER Jake C. Snyder	
WEST BY George Phillips and T. B. Elder	RIGHTS THRU COAL	STORAGE PRIVILEGE	ROYALTY \$200. Ann. Pay \$50.00	INVENTORY MAP NO. 0-25/10	DRAWING NO. SCALE Y-28-732A 1"=800'
COAL OWNER Ewing B. Pollock, Manor Real Estate Co., Monongalia Improvement Company	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	RESERVATIONS 300 ft. from Buildings		



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TO _____ DIVISION SUPERINTENDENT LOCATION _____ DATE FILED 19 Oct. 1970

You are hereby Authorized to Commence Work on the above Well at once.

Robert J. Mosher
Asst. Mgr., Land Leasing and Right of Way

Archie T. Coffey
Manager, Production and

WV Department of Environmental Protection
04/29/2016

NOTICE OF WELL STATUS CHANGE

COMPANY The Manufacturers Light and Heat Company		FIELD Majorville	DIV. 5	FOREIGN WELL NO. (IF ANY) -	COMPANY WELL NO. L-4850
FARM NAME John and Anna Crow	TOWNSHIP-TOWN-DISTRICT Webster	COUNTY Marshall	STATE W. Va.	LEASE-DEED NO. L-2900	ACRES 350
LAST ACTIVE WELL ON FARM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		(THIS BLOCK FOR GENERAL OFFICE USE ONLY) <input type="checkbox"/> SURRENDER LEASE <input type="checkbox"/> RENEW LEASE <input type="checkbox"/> OTHER			

STATUS PRIOR TO THIS REPORT	<input checked="" type="checkbox"/> DRILLING WELL	<input type="checkbox"/> Production Storage	Remarks Well drilled to recover cased off storage gas.
	<input type="checkbox"/> ACTIVE WELL	<input type="checkbox"/> Production Storage	
	<input type="checkbox"/> ABANDONED WELL		

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

DRILLED TO **1477** feet **lot salt** 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) _____
		GAUGE READING _____ inches <input type="checkbox"/> Mercury <input type="checkbox"/> Water or _____ psig through _____ inch opening after blowing _____ hours	ROCK PRESSURE _____ psig in _____ hours
	FLOW	FLOW _____ cubic feet per day	
		TEST READING	TYPE OF GAUGE <input type="checkbox"/> Orifice Well Tester <input checked="" type="checkbox"/> Pitot Tube <input type="checkbox"/> Other (Specify) _____
		GAUGE READING 23 inches <input checked="" type="checkbox"/> Mercury <input type="checkbox"/> Water or _____ psig through 4 1/2 inch opening after blowing 1 hours	ROCK PRESSURE 460 psig in 72 hours

AUTHORIZATION FOR WORK PERFORMED	<input checked="" type="checkbox"/> Well Order Number 4850 Budget No. 2005	For General Office Use			
	<input type="checkbox"/> Work Order Number _____	DEPARTMENT	SECTION	NOTED BY	DATE
	<input type="checkbox"/> Abandonment Order Number _____	PRODUCTION	Geology		
WORK PERFORMED BY	MACHINE NUMBER OR CONTRACTOR'S NAME L-1343		Storage		
			Clerical		
			Map		

Compiled By Ronald A. Schoff Date 2/17/71

Approved By ORIGINAL SIGNED BY G. L. WALZ JR. Date 2/18/71
DIVISION SUPERINTENDENT

LAND OPERATING	Office of Oil and Gas		
TREASURY	Land Accounting	APR 13 2016	
	Plant Accounting		
CIVIL ENGINEERING			

Return to Land Operating Department for filing
 WV Department of Environmental Protection
 04/29/2016

4705100541P

Marshall County, WV Parcel Map - Google Chrome
webmap.marshall.mtncad.com

Marshall County, WV Parcel Map

Legend

Layer Tree

Print

marshall_parcelstias

Item	Value
dist	15
map	5
pid	44
comment	
splitmonth	0
splitday	0
splityear	0
acres	195.970484415
distmap	15-0005
parid	15 5004400000000
shape_leng	13505.5733539
shape_area	8536474.30114
isaacres	215.57
inset	
own1	WITSBERGER CHARLES ALBERT II
addr1	250 DRY RIDGE RD
addr2	
cityname	CAMERON
statecode	WV
zip1	26033
legal	215.57 CALIS
adrstr	DRY
book	WB62
page	0604
calcacres	215.57
aprlnd	15700
bdgval	21900
rbhd	0470
lmsdc code	
gs_acres	196.142860472283

SGW-146

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APR 13 2016
WV Department of Environmental Protection

Scale = 1 : 14K
Datum: NAD83 30 24033

1) Date: March 24, 2016
2) Operator's Well No. SGW-146
3) API Well No. 47-51-00541
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 Charles Albert Witsberger II
Address 48 Zane st
Wheeling, WV 26003

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

Subscribed and sworn before me this 29th day of March, 20 16

Joseph E. Williams Notary Public

Marshall County, State of West Virginia

My commission expires June 5th, 20 24



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

APR 13 2016
West Virginia Department of
Environmental Protection
04/29/2016

4705100541A

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 1259.74' 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 29th day of March, 20 16

Joseph E. Williams

My commission expires June 5th, 2029



4705100541P

**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,

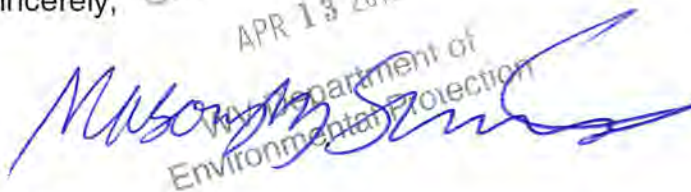
As per the Division of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company submits the following procedures utilizing pit waste.

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,

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



Mason Smith
Project Engineer

04/29/2016

4705100541P

Consolidation Coal Company
Northern West Virginia Operations

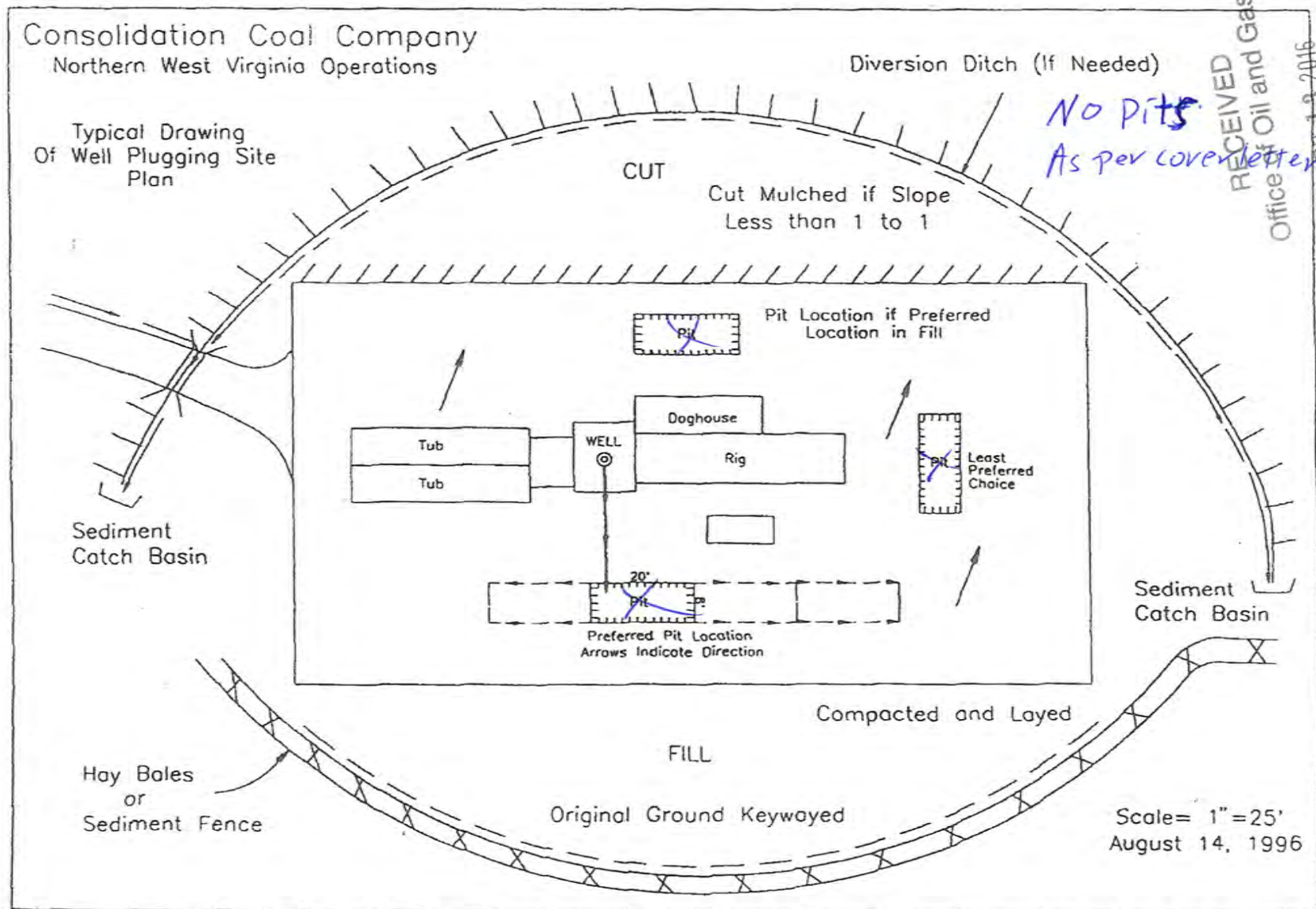
Typical Drawing
Of Well Plugging Site
Plan

Diversion Ditch (If Needed)

*No pits
As per cover letter*

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APR 13 2016

WV Department of
Environmental Protection



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

API: 47-051-00541 WELL NO.: SGW-146

FARM NAME: John Crow

RESPONSIBLE PARTY NAME: Consolidation Coal Company

COUNTY: Marshall DISTRICT: Webster

QUADRANGLE: Majorsville, WV PA

SURFACE OWNER: Charles Albert Witsberger II

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,420,516 m

UTM GPS EASTING: 539,831 m GPS ELEVATION: 384 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:

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.

[Signature]
Signature
March 24, 2016
Date

Professional Surveyor
Title

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Office of Oil and Gas
APR 13 2016
WV Department of Environmental Protection
04/29/2016

LATITUDE 39° 57' 30"

9,530'

8,935'

LONGITUDE 80° 30' 00"

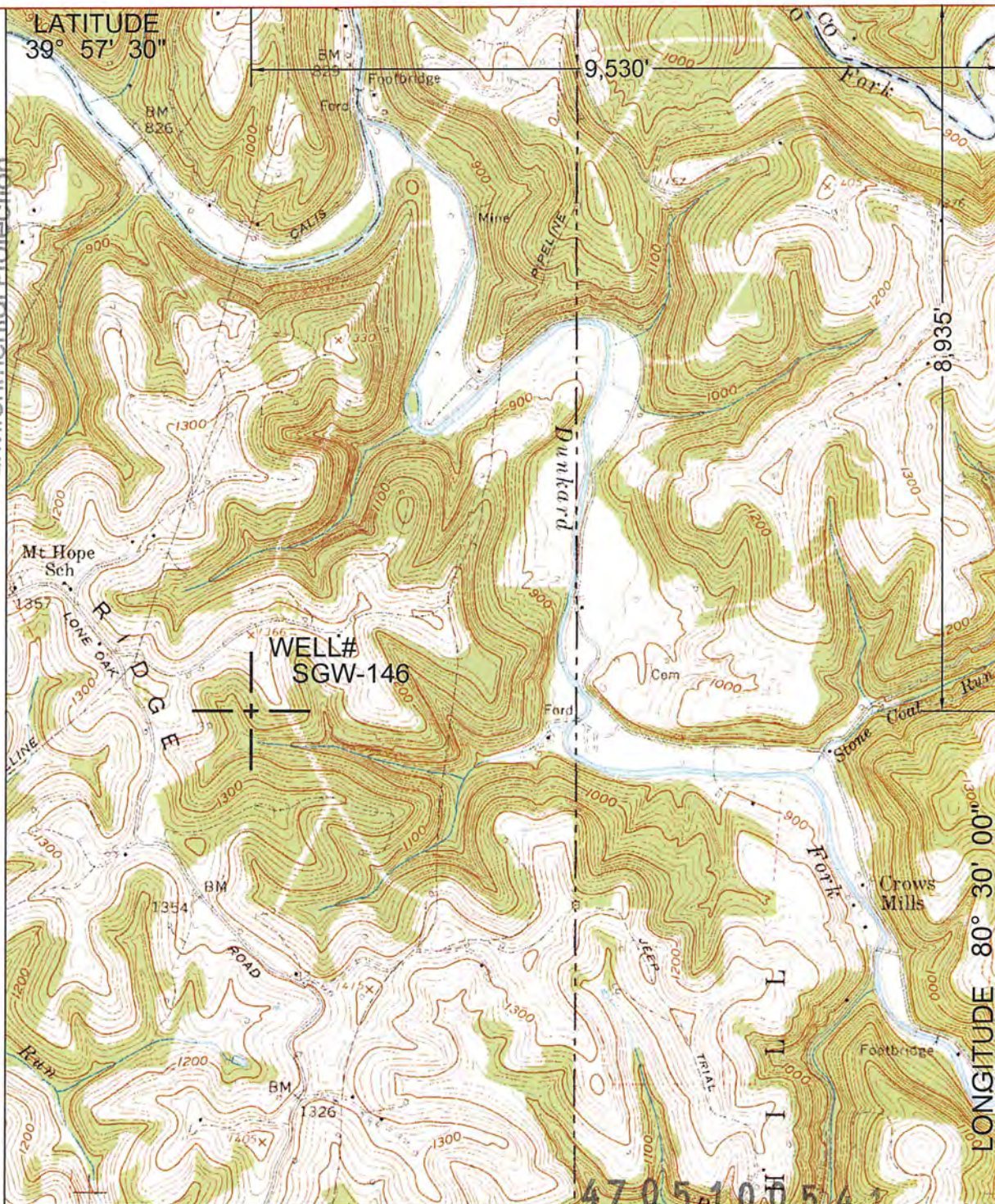
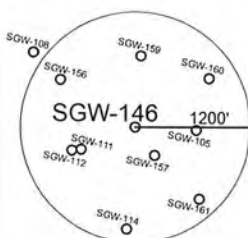
RECEIVED
Office of Oil and Gas

APR 13 2016

WV Department of
Environmental Protection

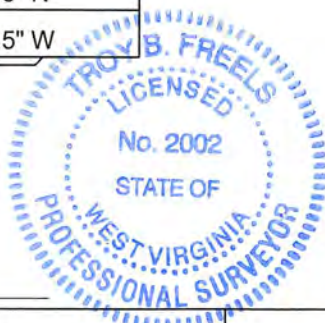
NORTH

SURROUNDING WELLS
WITHIN 1200' RADIUS



UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,420,516 METERS	39° 56' 01.5" N
EASTING 539,831 METERS	80° 32' 02.5" 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 24, 20 16

OPERATORS WELL NO. SGW-146

API WELL NO. 47 - 51 - 00541P
STATE COUNTY PERMIT

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

WV DEP OFFICE OF OIL AND GAS

601 57TH ST., CHARLESTON, WV 25304



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

LOCATION: ELEVATION: 1259.74' WATERSHED: DUNKARD FORK OF WHEELING CREEK DISTRICT: WEBSTER COUNTY: MARSHALL QUADRANGLE: MAJORSVILLE, WV-PA 7.5' ACREAGE: 213.50± ACRES

SURFACE OWNER: CHARLES ALBERT WITSBERGER II LEASE ACREAGE: LEASE NO.: 04/29/2016

ROYALTY OWNER: LEASE ACREAGE: LEASE NO.:

PROPOSED WORK: 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:

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

LATITUDE
39° 57' 30"

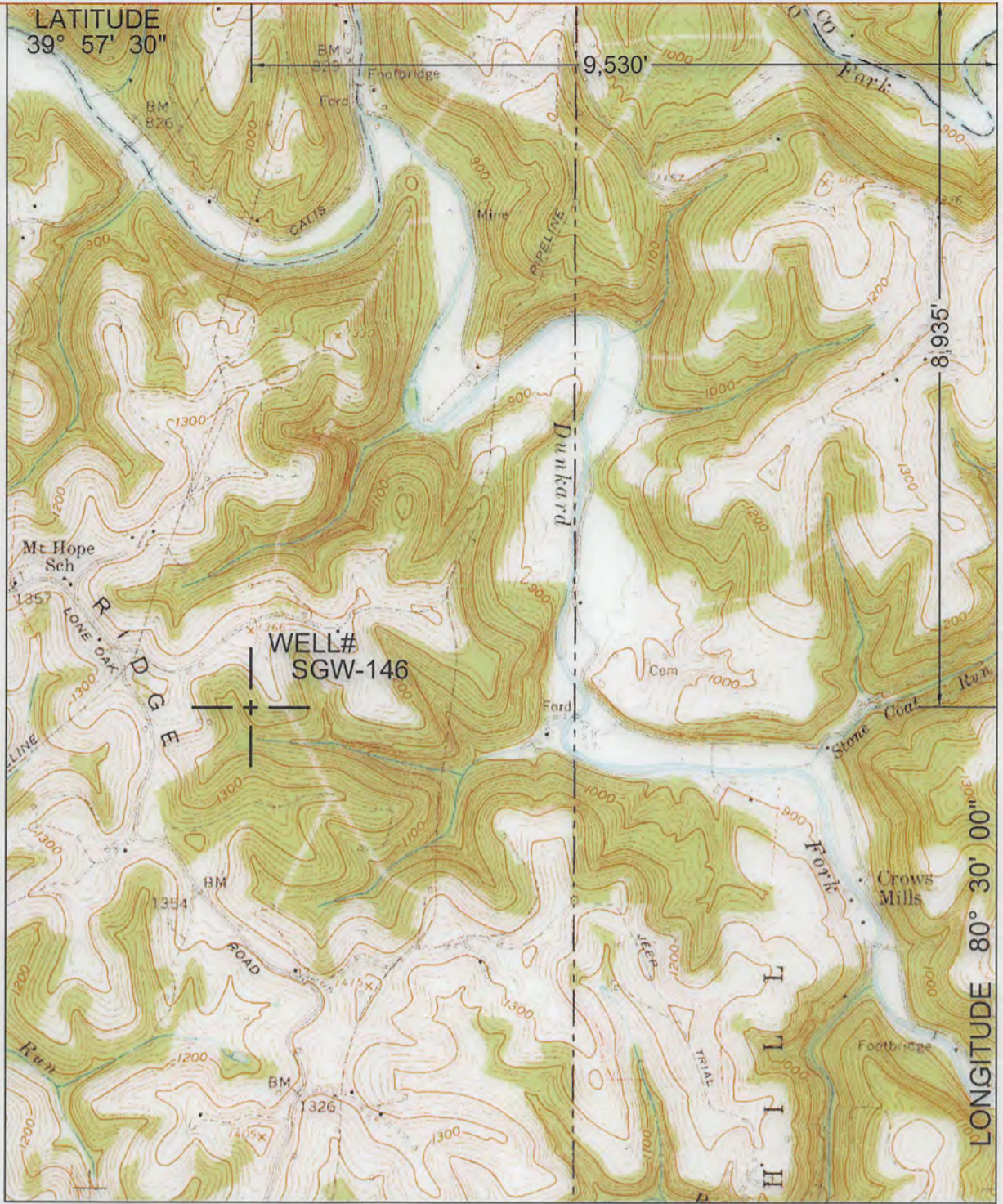
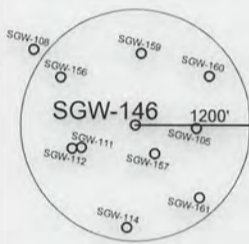
9,530'

8,935'

LONGITUDE 80° 30' 00"

NORTH

SURROUNDING WELLS
WITHIN 1200' RADIUS



WELL#
SGW-146

UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,420,516 METERS	39° 56' 01.5" N
EASTING 539,831 METERS	80° 32' 02.5" 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 24, 20 16
OPERATORS WELL NO. SGW-146
API WELL NO. 47 - 51 - 00541
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 LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1259.74' WATERSHED: DUNKARD FORK OF WHEELING CREEK
DISTRICT: WEBSTER COUNTY: MARSHALL QUADRANGLE: MAJORSVILLE, WV-PA 7.5'
SURFACE OWNER: CHARLES ALBERT WITSBERGER II ACREAGE: 213.50± ACRES
ROYALTY OWNER: LEASE ACREAGE: LEASE NO.: 04/29/2016
PROPOSED WORK: 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:

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