

west virginia department of environmental protection

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

Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Thursday, September 28, 2017 WELL WORK PERMIT Vertical / Plugging

CONSOLIDATION COAL COMPANY 1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for L.L. HOWARD 985

47-051-00611-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: L.L. HOWARD 985

Farm Name: HOWARD, HELEN M.

U.S. WELL NUMBER: 47-051-00611-00-00

Vertical / Plugging

Date Issued: 9/28/2017

Promoting a healthy environment.

PERMIT CONDITIONS

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

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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

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

1) Date:	May 8		20	17 .
2.) Operator		M-1105	-	
3.) API Wel	l No47	- 51	-	00611 .
	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 Liqu (IF "Gas", Production Un	derground storage	Waste disposal	Shallow X
5.) LOCATION:	Elevation: 1136.43'	Watershed:	Grave Creek	handistation of the state of th
	District: <u>Liberty</u> County		Quadrangle: Cameron, W	V 7.5°
	ORConsolidation Coal Co.		7.) DESIGNATED AGEN	T Ronnie Harsh .
Address _	I Bridge St.	The commentary images of the	Address	1 Bridge St.
	Monongah, WV 26554	andau ini ilini ilini phiphilippada di nasiani	***************************************	Monongah, WV 26554
8.) OIL & GAS INSE	ECTOR TO BE NOTIFIED		9.) PLUGGING CONTRA	CTOR
Name	James Nicholson		Name	
Address	PO BOX 44		Address	allennamen (literatura menteratura) et al esta de la companya del companya de la companya de la companya del companya de la companya del la companya de la c
	Moundsville, WV 26041	and a contract of the contract	19900000	and were the second and the second
10.) WORK O	RDER: The work order for the manner of	of plugging this well is as I	follows.	

1 00 0

SEE EXHIBIT NO. 1

B

MSHA 101C

MC	9.0 h
	Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.
	Work order approved by inspector Date

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EXHIBIT NO.1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize the following method to plug all future wells.

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
 - (c) Circulate through tubing or drill steel an expanding Class A 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 an expanding Class A cement plug from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

- WRLL HAS NOT BREW PREVIOUSLY PLUGGED.
- WELL RECORDS DO NOT INDICATE CASING WAS CEMENTED OR PERFORATED D
- ORIGINAL TO & 2760'.
- BLOW WELL DOWN & LOAD WITH GEL
- PULL OR CUT TUBING.
- WELL RECORDS DO NOT INDICATE 41/2" CASING IN WELL.
- PICTURES INDICATE 41/2" IN WELL.
- FREEPOINT, CUT & PULL OUT OF HOLE WITH 41/2"
- SET CLASS A CEMENT PLUG FROM 2700' TO 100

FEET ABOUE 4/2! CUT. (SEE NOTE *)

RECORDS INDICATE 1900' OF 7" FREEPOINT, CUT & PULL

711 OUT OF HOLE

- MORE CLASS A CEMENT FROM PREVIOUS CEMENT TOP TO 920/
 - MAY 1 8 2017 . RON EXPANDING CEMENT FROM 920' TU SURFACE.

Office of Oil and Gas WV Dept. of Environmental Protection

IF 4/2" CASING CANNOT BE PULLED, THEN PERFORATE TO COVER ARINULUS FROM 2700' TO 1900'. 09/29/2017

U. S. Department of Labor

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

MICL. 8 1980



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101-0

In the matter of McElroy Coal Company McElroy Mine I.D. No. 46-01437

Petition for Modification

Docket No. M-88-199-C

PROPOSED DECISION AND ORDER

On October 17, 1988, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's McElroy Mine, 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 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, McElroy Coal Company is granted a modification of the application of 30 CFR 75.1700 to its McElroy 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 McElroy Coal Company's Petition for Modification of the application of 30 CFR 75.1700 in the McElroy Mine is hereby:

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

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- I. Procedures to be utilized when plugging gas or oil wells.
 - (a) <u>Cleaning out and preparing oil and gas wells.</u> 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 officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits any officer of the completely filled and circulated with a gel that inhibits and circulated with a gel that circulated and circulated with a gel that circulated and cir

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 expand-

ing 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) Plugged 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 a color include check valves, shutin valves, sampling

MAY 1 8 2017

ports, flame arrestor equipment, and security fencing.

- II. The following procedures shall apply to mining through a plugged oil or gas well:
 - The operator shall notify the District Manager or (a) designee:
 - Prior to mining within 300 feet of the well; (1) and
 - When a specific plan is developed for mining (2) through each well.
 - 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.
 - Mining through a plugged well shall be done on a shift approved by the District Manager or designee.
 - The District Manager or designee, representative of (d) 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.
 - 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.
- Firefighting equipment, including fire extinguish-(f) ers, 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 Received 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.

and Gas Protection

- (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 cut 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.
- (1) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- (m) When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until



adequate ventilation has been established around the wellbore.

- (n) After a well has been intersected and the working place determined safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- (o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- (p) The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.
- (q) MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- (r) A copy of the petition shall be maintained at the mine and be available to the miners.
- (s) The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.
- (t) Within 60 days after this Proposed Decision and Order becomes final, the Petitioner shall submit proposed revisions for their approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the alternative method stated in the petition and the special terms and conditions stated in the Proposed Decision and Order.

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

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

MAY 1 8 2017



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

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 15th day of 1989, to:

Michael R. Peelish, Esq. Consolidation Coal Company 1800 Washington Road Pittsburgh, Pennsylvania 15241

Michael H. Holland, Esq. United Mine Workers of America 900 Fifteenth Street, NW. Washington, DC 20005 Ms. Linda Raisovich-Parsons Special Assistant United Mine Workers of America 900 Fifteenth Street, NW. Washington, DC 20005

MARY ANN GRIFFIN Mine Safety Clerk

Received

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State of Mest Birginia

DEPARTMENT OF ENERGY Gil und Gas Bivision

ı	Date_April 20, 1993 Operator's Well NoL-985	
	Farm L.L. Howard	•
	API No. 47 - 051 - 00611	

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

		, strong direct	
	WELL TYPE: Oil / Gas X / Liquid Inject (If "Gas," Production X / Underco	on/Waste Disposal/ round Storage_X/Deep/Shallow_	_/)
	LOCATION: Elevation: 1205 Watershed	Laurel Run	
	District: Liberty County Ma		
		320 341101 32	- The second sec
က	COMPANY Columbia Gas Transmission Corp.		
717	ADDRESS P. O. Box 1273. Charleston. WV 25325	Casing Used in Left Cemer	
1	DESIGNATED AGENT R.C. Weidner	Tubing Drilling in Well Cu.	up ft
	ADDRESS SAME	Size	2 P. A.
	SURFACE OWNER Helen M. Howard et al.	20-16	9
	ADDRESS 508 Chestnut Lane, Jeannette, PA 1564	13-10" 1045	2017
	MINERAL RIGHTS OWNER SAME	9 5/8	x =
	ADDRESS_		Oil and Gas
	OIL AND GAS INSPECTOR FOR THIS WORK 111 Blockshere Dr.	7 1900 5 0 50	of Oil and Gas Wironniental Protection
	R. Mick ADDRESS Mannington, WV 26582	5 1/2	
	PERMIT—ISSUED ASSIGNED 1978	4 1/2	•
	DRILLING COMMENCED Unknown	3 WY Division of	
	DRILLING COMPLETED 1-30-1896	Environmental Protection	
	IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used Permitting used Office of Oil & Gas	
	ON	Street of the Control	
	GEOLOGICAL TARGET FORMATION Gordon Stray	Depth 2755	feet -
	Depth of completed well 2755 feet	Rotary/ Cable Tools X	
	Water strata depth: Fresh feet	Salt 1680 feet	
	Coal seam depths: 720	_ Is coal being mined in the area?	No
	OPEN FLOW DATA	·	
	Producing formation Gordon Stray	Pay zone depth 2755	feet
		0/1, 7-//12	ol/d ≥
	Final open flow Mcf/d		ol/d %
	Time of open flow between in	tial and final tests hours	0
	Static rock pressure NA psig(surfa		
	(If applicable due to multiple completion	1)	
	Second producing formation	Pay zone depth f	eet
		Oil: Initial open flow Bt	o1/d
			ol/d
	Time of open flow between in		09/29/2017
	Static rock pressurepsig(surface	e measurement) afterhours shut	: in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

The well record doesn't indicate any perforations or stimulating ever occurring.

WELL LOG

CORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Pittsburgh Coal	720		The state of the s
Dunkard Sand	1260	:+	
Lime	1355		
Salt Sand	1680		
Big Lime	1900		
Big Injun	2025	2140	
Slate	2490		RECEIVED
Red Rock	2665		WY Division of Environmental Protection
50' Sand	2705	2720	MAY 0 5 93
Gordon Stray	2755		Permitting Content of Oil & Gas
			<u> </u>
F 8 8		-	
1			
** まならり。**** まなり			
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	27 25		
			MA 3
		rate sheets (. Since of Oil

(Attach separate sheets as necessary)

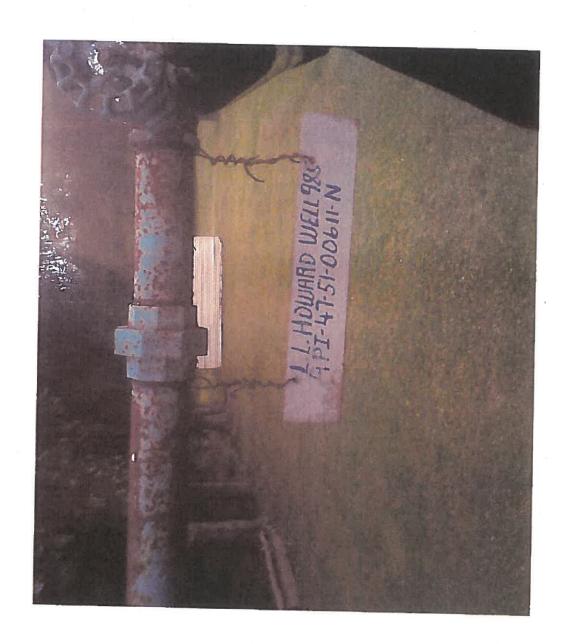
Col	umbia Gas Transmission	Corporation
WE	ell Operator	
э ў:	Robert C. Weidner	
Date:	04/29/93	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including incl., encountered in the drilling of a well."

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Office of Oil and Gas WV Dept. of Environmental Protection

09/29/2017

			5100611
IR-26 OBVERSE INSPECTOR'S PER	RMIT SUMMARY FO		ECEIVED FOF OIL AND GAS .
			CT 28 1997
WELL TYPE (945	API# 47- 51	W	N Division of
ELEVATION: 1,137.00	OPERATOR: CO	LUMBIA GAENVIO	Amental Fretecher P
DISTRICT: LIBERTY	TELEPHONE: (304)357-2459	
QUADRANGLE: CAMERON	FARM: COURTR	IGHT, NANCY SU	JE
COUNTY: MARSHALL	WELL NO.: L.	L. HOWARD 985	
SURFACE OWNER Courtain of TARGET FORMATION CONSTRUCTOR	COMMENTS (Y/N) TELEPHONE	
DATE PERMIT ISSUED: 09/01/93			
DATE LOCATION STARTED NO	OTIFIED / DR	ILLING COMMENC	CED 1894
water depths,,	. 1680 5.	* demonstration *	
	CASING		
RAN 1045 FEET OF 10 " 1	PIPE ON	WITH	FILL UP
	PIPE ON -		FILL UP
RAN 1900 FEET OF 67/9" 1			FILL UP
RAN FEET OF " I	PIPE ON	WITH	***************************************
RAN FEET OF " 1	······································	***************************************	
	**		
	PITS		
PIT DISCHARGE DATE	TYPE		
FIELD ANALYSIS PH	DIT	mg/l Cl	mg/l
WELL RECORD RECEIVED		PRE-SEEDING SO	OIL

DMR RECEIVED

DATE RELEASED

TONS OF LIME APP. TONS OF 10-20-20 APP.

BALES OF MULCH APP.

INSPECTOR'S SIGNATURE

-----RECORD ALL VISITS TO THIS WELL ON BACK-----

This WELL WAS ShoT OUT

This 1988 To 1992.

No Production 000.000

API number 47-051-00611



RECEIVED
WY Division of Environmental Protection
WY 0 5 93
Permitting

ROCOMED

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ng and Gas gramental Protection





Select County: (051) Marshall Select datatypes: (Chack All) Enter Perma a: 811 Production ✓ Plugging ✓ Owner/Completion
 ✓ Stratigraphy
 ✓ Sample Get Data Reset ✓ Pay/Show/Water ₹ Logs F Bitm Hale Lac

Inble Descriptions
Coasis Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Passaring
WYGES Main
Pippeling-Pays* New

WV Geological & Economic Survey

Well: County = 051 Permit = 611

Report Time: Thursday, May 64, 2017 5.34:24 AM

Location Information: View Man

API COUNTY PERMIT TAX DISTRICT CUAD 73 QUAD 15 LAT_DD LON_DD UTAGE UTMN
4705100811 Marshal 611 Liberty Cameron Cameron 33.81928 40.532937 538261.3 4407866.8

There is no Bottom Hole Location data for this well

Owner Information:

API CMP_DT BUFFIX STATUB SURFACE_OWNER_WELL_NUM_CO_NUM_LEASE_LEASE_NUM__NINERAL_OWN__OPERATOR_AT_COMPLETION_PROP_VID_PROP_TRGT_FM_
47051009811 3/1- Worked Over Compiled Helen M Howard et al. L-955 L L Howard Helen M Howard et al. Columbia Gra Transmission Corp.

47051009811 3/1- Worked Over Compiled Nancy Size Columbia Corp.

L-985 L L Howard Helen M Howard & B Chaiddock Columbia Gra Transmission Corp.

Pay/Show/Water Information:

API CMP_DT ACTIVITY PRODUCT SECTION DEPTH_TOP FS_TOP DEPTH_BOT FM_BOT F G_BEF G_AFT O_BEF O_AFT WATER_CHTY 1680 2755 Gordon Stray

| APT | PRODUCING OPERATOR | PRO_YEAR ANN_GAS_JAN_FEB_MAR_APR_STORTS | PROSPECTION | P JUN JUL AUG SEP OCT MOV DOM 0 0 0 0 0 0 0000 0 0 541 0 571 651 593 575 509 0 0 661 728 740 668 526 553 618 0 725 758 649 536 576 0 0 596 0 659 720 581 270 536 0 0 501 749 768 627 225 130 0

under Oil

Production NGL Information: (Volumes in Bbl) *** some operators may have reported NGL under Oil

[API PRODUCING_OPERATOR PRD_YEAR ANN_NGL JAN FEB MAR APR MAY JUN JUL AUG BEP OCT NOV DCM

[4705100511 Laatherwood, Inc. 2013 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

http://www.wvgs.wvnet.edu/oginfo/pipeline/pipeline2.asp?txtsearchapi=4705100611

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MAY 1 8 2017

FORM WW-4(A) Revised 6-07

4) SURFACE OWNER(S) TO BE SERVED

1) Date:	May 8, 2017	
2) Operator	's Well No. M-1105	
3) API Wel	I No. 47 - 51 00611	,
	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	5)a) COAL OPERATOR
(a) Name Glen P. & Cathy Courtright	Name CONSOLIDATION COAL CO.
Address 13 Willard Lane	Address I Bridge Street
Cameron, WV 26033	Monongah, WV 26554
(b) Name	
Commence of the Commence of th	(b) COAL OWNER(S) WITH DECLARATION:
	Name Address
(c) Name	Address
A didney of	what we see the best control of the second o
Address	(a) COAL LEGGE WITH BEGIND AND AND AND AND AND AND AND AND AND A
(6) INSPECTORJames Nicholson	(c) COAL LESSEE WITH DECLARATION: Name
Address PO BOX 44	
Moundsville, WV 26041	Address
Telephone (304) 552-3874	March 2010 and the Silv Anni Charles (March 10 and
	and the state of t
(FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, Take notice under Chapter 22-6 of the West Virginia Cod and Application and accompanying documents for a permit to p Virginia Department of Environmental Protection, with respect on the attached From WW-6. Copies of this Notice the Applic	well and its location and the plugging
	WELL OPERATOR Consolidation Coal Company By Mason Smith Muser Any Grant Project Engineer Address 6126 Energy Road Moundsville, WV 26041 Telephone (304) – 843 – 3565
Subscribed and sworn before me this 15th day of May Joseph E. Williams Joseph END Marshall County, State of West Virgin My commission expires June 5th , 2024	, 20 17 hom Notary Public,
	such as name, address and phone number, as a part of our regulatory duties. Your third parties in the normal course of business or as needed to comply with statutory or requests. Our office will appropriately secure your personal information. If you have any tact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov



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Office of Oil and Gas

MAY 18 2017

WV Department of Environmental Protection 09/29/2017 WW-9 Rev. 5/08

	Page	of
API Number 47 -	051	00611
Operator's Well N	o. M-11	05

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 Grave Creek Quadrangle Cameron, WV
Elevation 1136.43' County Marshall District Liberty
Description of anticipated Pit Waste: N/A
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? YesNoX
Will a synthetic liner be used in the pit? N/A If so, what mil.?
Proposed Disposal Method For Treated Pit Wastes: Land ApplicationUnderground Injection (UIC Permit Number)Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location)X Other (ExplainTanks, 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 benalties for submitting false information, including the possibility of time or imprisonment. Company Official Signature
Company Official (Typed Name) Mason Smith
Company Official Title Project Engineer
Subscribed and sworn before me this 15 th day of May , 20/7 Joseph E. Williams Joseph C. Williams Notary Public
Joseph E. Williams Joseph C. William
My commission expires June 5th, 2024

OFFICIAL SEAL
STATE OF WEST VIRGINIA
HOPMAN PURLIC
Joseph & Millione
1512 PRIO GROWN
TRANSPORTE, NOV 20041
TO GROWN BENEVAL JUNE 6, 2024

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	LEGEND
Property Boundary	Diversion Control of the Control of
Road = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot 💍
Planned Fence//	Drain Pipe with size in inches (1)
Stream Stream	Waterway C+ C+ C+ C+
Open Ditch	. Cross Drain
Rock 485682	Artificial Filter Strip XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells W	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed <5	Prevegetation pH 6
Lime Z Tons/acre or to correct to pF	4 6
500	9
	s/acre (500 lbs minimum)
$\frac{2}{\text{Mulch}}$	acre
See	ed Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
	Seed mix in accordance with WVDEP oil and
	gas Erosion and Sediment Control Field Manuel
Attach: Drawing(s) of road, location,pit and proposed area for land app	plication.
Photocopied section of involved 7.5' topographic sheet.	
Plan Approved by:	
Comments:	
elC a W m	metal market and the control of the
Title	MAY 1 8 2017
Title:	Date:
Field Reviewed? () Yes () No Office of Oil and Gas WV Dept. of Environmental Protection

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

May 16, 2017

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-78-83, U-140-83, or U-1011-93.

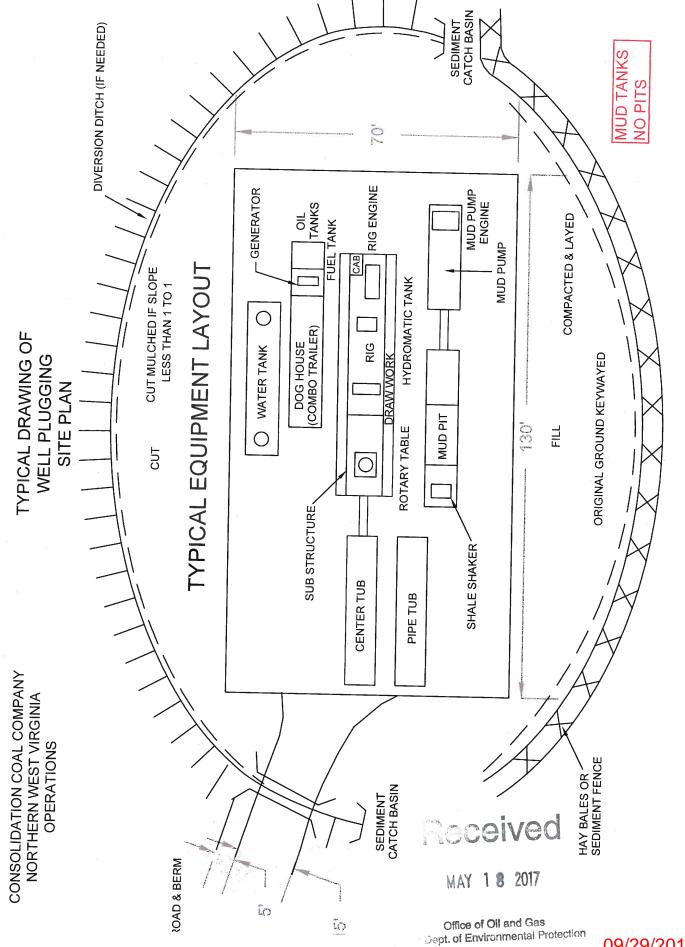
Sincerely,

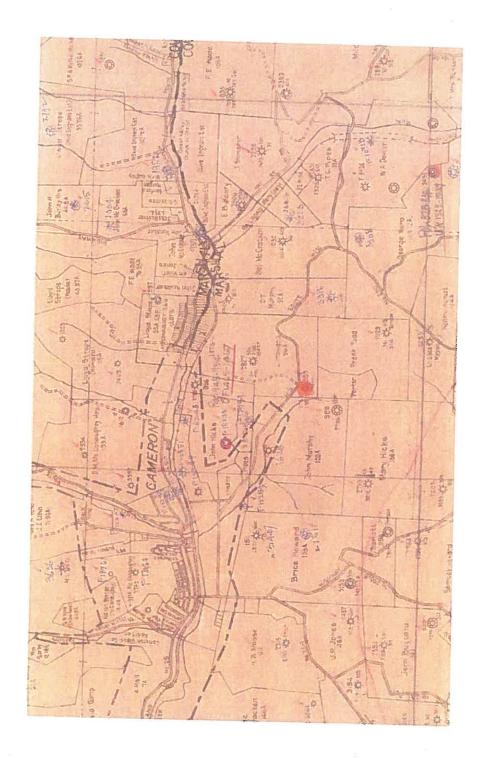
Mason Smith

Project Engineer

Received

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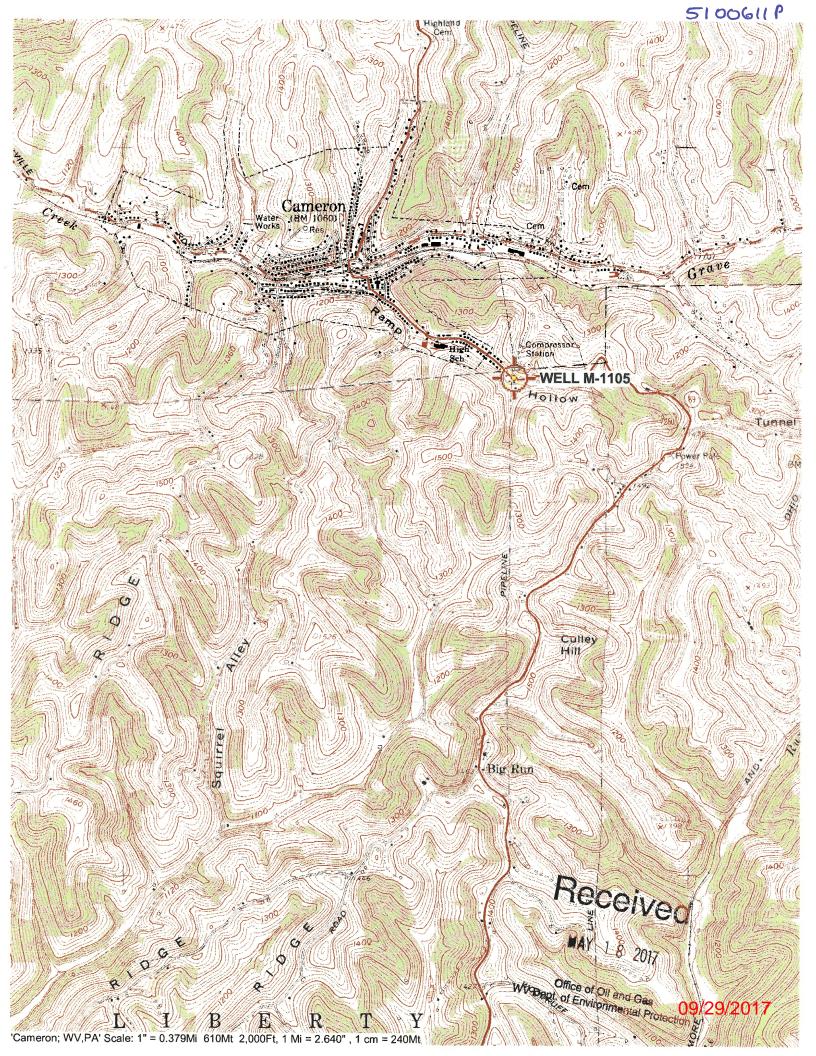


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Office of Oil and Gas WV Dept. of Environmental Protection

09/29/2017



WW-7 8-30-06

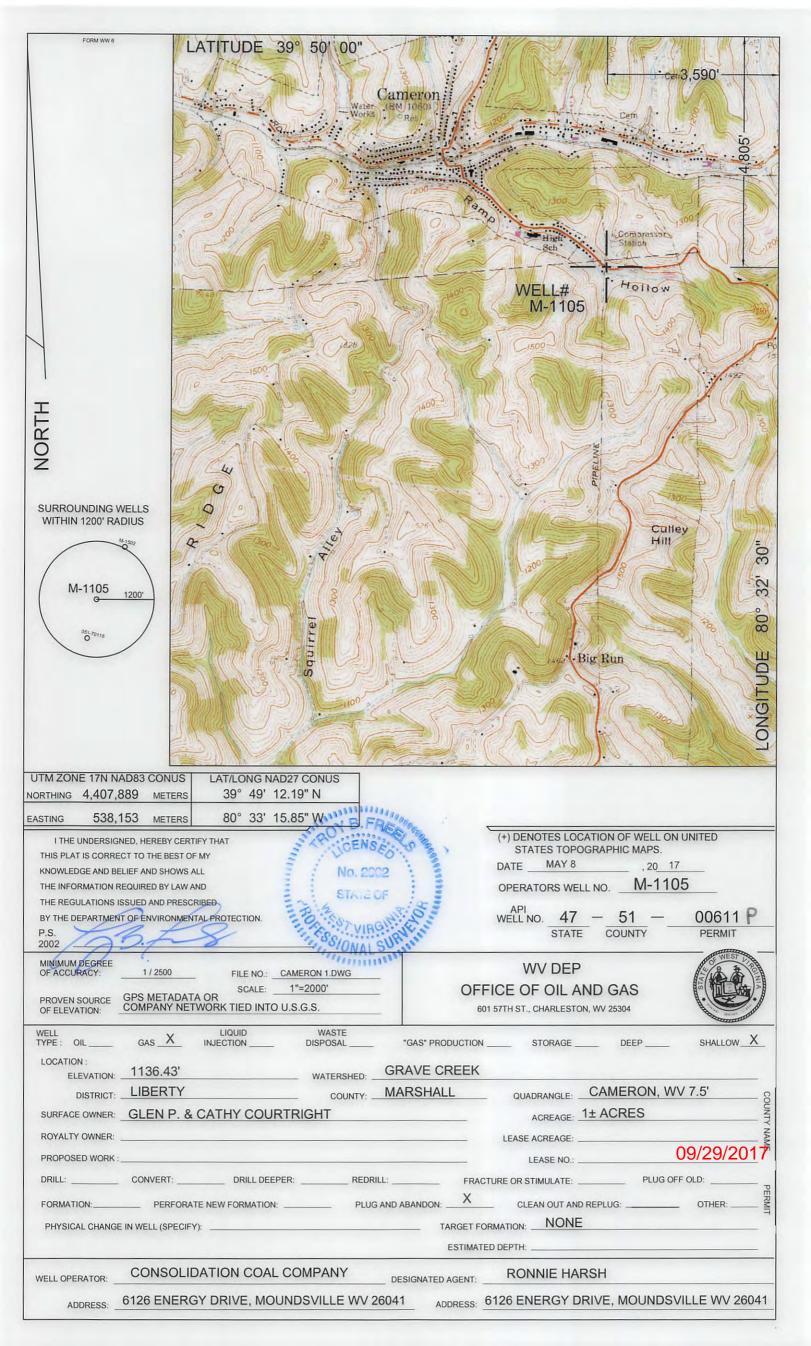


West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-051-00611 WI	ELL NO.:	M-1105	
FARM NAME: L. Howard			
RESPONSIBLE PARTY NAME: Consolidation Coal Company			
COUNTY: Marshall DIST			
QUADRANGLE: Cameron, WV			
SURFACE OWNER: Glen P. & Cathy Courtright			
ROYALTY OWNER:			
UTM GPS NORTHING: 4,407,889 m		:	
UTM GPS EASTING: 538,153 m G	PS ELEVAT	ION: 346 m (1136. 43')	
The Responsible Party named above has chosen to subm preparing a new well location plat for a plugging permit above well. The Office of Oil and Gas will not accept G the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordin height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS X : Post Processed Differenti Real-Time Differential Mapping Grade GPS: Post Processed Differential 4. Letter size copy of the topography map she I the undersigned, hereby certify this data is correct to the belief and shows all the information required by law and prescribed by the Office of Oil and Gas.	or assigned A PS coordinate nate Units: met al X ntial owing the wel the regulation	PI number on the s that do not meet ters, Altitude: I location. Inowledge and is issued and	
Signakure Title	fessional Sur	veyor	
May 8, 2017			

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ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041

ADDRESS: 6126 ENERGY DRIVE, MOUNDSVILLE WV 26041