

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

April 26, 2016

WELL WORK PLUGGING PERMIT Plugging

This permit, API Well Number: 47-5100192, issued to CONSOLIDATION COAL COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Operator's Well No: 2-4004

Farm Name: ELDER, MAY

API Well Number: 47-5100192

Permit Type: Plugging
Date Issued: 04/26/2016

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

4705100192

1.) Date:	M	arch 18			, 20	16	
2.) Operator'	s We	II No.	S	GW-15	6	2.0	Ī
3.) API Well	No.	47	(2)	51	4	00192	
		State	-	County	. 9	Permit	Ī

04/29/2016

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL & GAS APPLICATION FOR A PERMIT TO PLUG & ABANDON

.) LOCATION:	Elevation:1344.58'	Watershed:	Dunkard Fork of W	heeling Creek
	District: Webster Con	ounty: Marshall	Quadrangle: Maj	orsville, WV-PA 7.5'
) WELL OPERA	TOR <u>Consolidation Coal Co.</u>		7.) DESIGNATED	AGENT Ronnie Harsh
Address	1 Bridge St.		Address	1 Bridge St.
	Monongah, WV 26554			Monongah, WV 2655
.) OIL & GAS INS	SPECTOR TO BE NOTIFIED		9.) PLUGGING C	ONTRACTOR
Name _	Eric Blend		Name _	
Address	PO BOX 2115		Address	1
	Wheeling, WV 26003			
Soid Ce	ment Plug from a	see exhibit no. 1 Hanable both	om to 100	31 then 1016
Soid Ce	ment Plug From a	see exhibit no. 1 Hanable both	om to 100	31 then 1010
	ment Plug From a	Hanable both	ed work can commence.	
		Hanable both	ed work can commence.	RECEIVED Office of Oil and
otification must be		ector 24 hours before permitte	ed work can commence.	

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".

Office of Oil and Gas

APR 13 2016

WV Department of Protection Environment 4/29/2016

RECEIVED

U. S. Department of Labor 1990

W. J. SCHELLER

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

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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:
 - 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.

- (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.

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

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

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

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

MARY ANN GRIFFIN Mine Safety Clerk

04/29/2016

174 Car 3 *



STAYE OF WEST VINGINIA DEPARTMENT OF MINES

..... OIL AND GAS DIVISION Contracto Cameron **WELL RECORD** NARS-192-D The Mfrs, Lt. and Ht. Co. 800 Union Trust Bldg., Pittsburghl9, Pa. Table May Elder Location (waters)_____ Elev 1341.60G.L. Well No **Webster** Marshall 10_3/4" 8431 The surface of tract is owned in fee by 7/8" 1410 1908 1908 May 23, 1963 19001 1978! September 2, 1963 8/30/63 From Big Infom Liners Uped. Side Static /10ths Water in. 16,895,000 13 paig. CASING CEMENTED. **89**0 Rock Pressure COAL WAS ENCOUNTERED AT 797 FEET DICKES Salt water. PEET INCHES PERT INCHES Formation Cales Top Bettem THI CHIRSH Pittsburgh Coal 797 1160 -6 803 10 1170 Big Dunkard 1280 22 1302 1398 1540 1725 Gas Sand 107 1505 let Salt Sand. 3rd Salt Sand Show of Gas 1552 - 1555 (Orig.Record)
Water 1775-1785' (Orig. Record)
Gas - 1954 to 1968'(Orig. Record) 70 1610 73 1798 Big Injun Reconditioned to Original total depth of 1978' 1978

4705100192

Permit No. Mars 192 Cameron Quad. Company	The Manf.	Light & Heat Co.	Gas 17 Casing &	
Address		•	Cond. 16	16
Farm	Mary Elde		10 843	
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Commonced	Oct. 3,19			1989
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Volume		" ,6,286,080 B.Injun		h
Rock Pressure Water	368# 24 1775⊶1785		Anchor P	
	1170-1100		Depth 19	
			-	
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Lino State	400 440	440 Slote	1885	1891
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Rod Rock Slate	965 980	980 992		
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White Slate	1015	1050		
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Little Dunkard Sand	1160	1170		CEIVED Gas
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Big Dunkard	1210	1302	4	γη
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TARM May Elder #2 TWP. Webster COUNTY Marshall STATE W. Va.)4
COM. DR. 10-3-48 COMP. DR. 11-22-48 TOTAL DEPTH 1978' ELEV. 134	21
PROD. SD. Big Injun. INIT. VOL. 6,286 080 R. P. 368/24/15 ABD.	
REMARKS Lease # 19447 300 AUTHORITY	
CONDUCTOR 13" 10" 81/4" 65/8" 53 16" 4" 3" PACKER SIZE TYPE DEPTH SET	
16. 843 1410 1908 1989 648X4 Anchor 1927	
SIZE SHOT DEPTH SHOT VOL. BEFORE VOL. AFTER	
DATE DEPTH REMARKS DATE DEPTH REMARKS DATE DEPTH REMAR	KS
ACTIVE STORAGE WELL RECONS & RETAINED C. D. 9-Y-63 TOTAL DEPTH 1978' W.O. 7301-L-7858-5 OPEN FLOW 16,895 M.C.F. ROCK PRESSURE 890/77 HAS.	
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V. F = 16.55	
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FORM PD-8	7050	COLUMBIA GAS	SYSTEM Y	VELL R	ECORD PITTS	BURGH GROUP COMPANIES NO

FORMATION	TOP	BOTTOM	REMARKS				
				FORMATION	TOP	BOTTOM	REMARKS
PGH. COAL	797	803		BALLTOWN SAND			
L.DUNKARD SD.	1160	1170		RILEY SAND			
B.DUNKARD SD.	1280	1302		BENSON SAND			
Gas Sand	1398	1505	2 10 00 00 00 00 00 00 00 00 00 00 00 00				
1ST GAS SAND				TULLY LIME			
1ST SALT SAND	1540	1610					
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MAXTON SAND		916		ORISKANY SAND			177
LITTLE LIME				William Sale			
T.D.		1978					
BIG LIME					Charles Co.		
KEENER SAND							
BIG INJUN SAND		72					
SQUAW SAND							
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CSD							
FARM	May E	lder		NO.	COMPAN	W M. L &	& H. CO. NO. L-4527
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A Projection							→

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WELL OWNERS ###P/DIST_Webster PERMIT NO	COUNTY Marshall TOTAL DEPTH. 1477	STATE : WV
OPEN 9250 M. C. F. \$	1 st Salt Sand	R.P. 460 [#]
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MAXON BIG LIME	_ BEREA	
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WELL LOG SUMMARY

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WENTING F	TYP		. 540					+		+			ginal hor Pa			
	SIZE							+		1			/8-X P			
-	SET	TING (EPT	н								_	271			
-	REA	TMEN	٦_	TYPE	SIZE	AND/OR	AMOUN	T ZO	NE TREA	TED	OPEN FL	OW-M	CF/DAY P	ERFORM	ED BY	DATE
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MULATION				-		To			After							
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rm PD-17 -				From				Before				+				
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pplicable)							From	1		Before						
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	DATE	GAUC	320	FORMA	TION	PAY ZONE				E GAUGE		SSURE FY UNITS)	SIZE OPENING (INCKES)	MCF/D	EN FLOW	
OPEN -			-	Big		From	1954			-	ide			(INCKES)	MLF/D/	nks.SLOW
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١,	DATE	GAU	3ED	FORMA	TION	<u> </u>			SSURES			<u>.</u> .		EAD PRES		
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Γ		2 1		Big Inju												
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	_	n mea Derrick		_	Greune		Other (Spec14\					ľ		I .	
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	Original 7" Casing Perferated at 1430' and Cemented to Surface															
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	109 8	Kaluet	P> /	/			DATE			ED BY	(DIVISION SU	PERINT	ENDENT)		DA1	VED 2016
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rep BY 101Vis		m	U	<u>us</u>			7 6	/ (/	<u> </u>						- INC	Mo DA
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WELL LOG SUMMARY

DIV. FIELD	PA	IRM			COUNTY		WELL NO.	
5 Majorsville		Hoy Elder	<u>, </u>		Merchall		Lakook	
ORIGIN OF FORMATION DEPTHS	X	Driller's Log		Servic	e Company Log	Com	bination	
FORMATION .	T.OP.	BOTTOM	THICKNE	ss. (H	R i fator, Gas, Oil encounter	EMARKS	k Pressure-etc.)	
Active Well Drilled 11/22	/h8 1	Recorditions	d en W.					
Taken from Original Well	1							
						- A		
Pittsburgh Coal	797	803	6		6	4705	1001	9 6
Little Darkard	1360	1270	10					
Big Dunkard	1260	1305	22					
Gas Sand	1398	1505	107					
1st. Salt Sand	15k0	1610	76	Sho	e of Gas 1552-1	5551(Orie.F	scord)	
3rd. Salt Sand	1725	1798	73		€ ≥ 1775-1785' (
Big Injun				1	- 1954 to 1968	-		
Recenditioned to Original		·						
total depth of 1978'								
TOTAL BEPTH		1978						
			 					
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NOTICE OF WELL STATUS CHANGE

COMPANY					FI	ELD	DIV.	FOREIGN WELL NO	O. COMPANY WE	ELL NO.					
The Manufac	turees	Tacht 8	Host	Company	1.	Najersvill	e 5	(IF ANY)	Labook						
FARM NAME	Market State 25	- Albina i		OWNSHIP TOWN DI	STRICTCOU	NTY	STATE	LEASE-DEED	CRES DATE	COMP,					
May Klder				Webster	3.	ershall	W.Va.	19147	96 9 2	63					
LAST ACTIVE WEL	L ON FARM			OCK FOR GENERA	L OFFICE U	SE ONLY)			736.1. 7						
YES	У ио		s	URRENDER LEASE		RENEW LEASE	Потна	R							
STATUS	DRI	LLING WE	1.1	Production											
PRIOR	""دارا	!!\\\\\		Storage		Remarks									
TO THIS	ACT	TIVE WELI	L	Production						•					
REPORT	الكسا		_	Storage											
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				4				4-7-0-5-4	<u> </u>						
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			_	Reta						'					
	REC	RILLED	FOR ST	ORAGE 🔲 Aban	doned					•					
	l — .			Retained											
WELL	REC	CONDITIO	NED [Abandoned											
STATUS		***********		TD 4.VCC TO 570											
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OR	رالتا	MALTINE	10	Storage											
WORK	PUR	CHASED	FOR	Production	on										
WORK				Storage											
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·	DRUJEA Y	Recor	ditie	med to	1	LUGGED BACK	мо	YES							
		feet II	to Bi	g Injun	sand	f Yes, to depth of	fee)†		sand					
	WELL TRE		_						···· •						
	U No	Yes		os, Type of Treatme	ent										
		BEFORE		Orifice Well Tester		Г	٦., ،, .								
COMPLETION		TREAT-	, <u> </u>	READING F		Itot Tube	Other (Speci	Ŋ)							
DATA	OPEN	MENT	İ	inches [Mercury Water	or psig th	hrough	inch opening after l	lowing	_hours					
2010		(If applicable	FLOW				HOCK PRESSURE	• •							
(If applicable)	E1 0W				cub	ic feet per day	psig	in hours							
	FLOW		TYPE	OF GAUGE				**							
				Orifice Well Tester	<u> </u>	itot Tubo 🔄	Other (Speci	fy) Side Stat	<u>te</u>						
	TEST	FINAL	GAUGE	READING	Mercury	36				min.					
		READING	FLOW	inches	Water		ROCK PRESSURE	inch opening after l	olowing	HA:					
		l	"	16,895,000	ash	ic feet per day	890_ psig								
		<u>. </u>				le icu. par cey		neral Office Use							
AUTHORI-	L Well	Order Numb	er	Budget N	o	DEPARTMENT			54==						
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PERFORMED	LÆ HOFK	Older Mamp	'' _23	01-1-2858-5		-	Geology			_L					
- EIXI ORMED	Abene	donment Ord	or Numb	er			Storage		1	1					
				 		PRODUCTION	1 -		 						
WORK PER-	MACHINE N	UMBER OR	CONTRAC	TORS NAME					+						
FORMED BY	Ross	Burns					Мар								
£ ·	Schafer					LAND OPERAT	TING		11						
compiled By				Date 9/16/6	*		Land Accoun	ting	1	1					
	- AMERICA II			_ UGTG		TREASURY	 								
. ~							Plant Accour	9							
pproved By	Vision sup	ERINTEND	ENT	_ Date		CIVIL ENGINE	ERING								

Return to Land Operating Department for filing

04/29/2016

	COMPANY								DIV.		FIELD			-	WEL	L NO.
	The Mar	mifecti	Ters	Id ght	& Hes	at. Co	manv		5	- 1	Maid	orsvi	lle		L	F00F :
	FARM NAME					EASE N		TRICT -	1879 (200	ok!			DUNTY			STATE
LOCATION	May 1	Elder			96	1914	7	Webs	ter	=		1	Marsha	111		W.Va.
		meron				-/					of.			•		
	MAP	PRICE CIT		Quad	rangle			F1						· —		
	CONTRACTOR	'S NAME						F1	d _a		<u> </u>				-	;
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CONTRACTOR		. •							- 1				abla it illing		no	<u> </u>
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Da	condition							Com	PCE1EU (en Ho		:
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HOLE	BIT GAUGE	<u> </u>			3"		.O ¹¹	811			6			<u> </u>		
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CEMENTING	TYPE					\vdash		1-		┥		or Pa			 	;
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	TREATMENT	TYPE		AND/OR	AMOUN	+		TED		L	OW-MCF	/DAT	ERFORM	EU 61		JATE :
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STIMULATION						To			After							;
(Attach Completed						From	ı		Before			ŀ		1		. }
Form PD-17 -				<u> </u>		То			After							
"Well Stimulation			1	•		From	٠.		Before			1				ļ
Report" if						То			After						1	
applicable)					,	From	ı	- 1	Bafora			i				í ·
						То	•		After							
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OPEN	DATE GAUGE	יאטר וכי	MA I ION	1	FAI	ZONE		(8)	(SPECIFY) (SPECIFY UNI			UNITS)				HRS.BLOWN
		Pig		From	1954			Side					10 20			
FLOW	8 30 63	3 Inj	ın		1968 -	4.	•	Static			13ps:	i	7tu	16,	895	5 min.
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	- 1- 1-	4-3		- [W 000	SSURES			┰┸	<u> </u>		EAD PRESSURES			;
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	Origina	1 7º C	asing	Per£0	rated	at 1	<u>,ц30'а</u>	nd C	emente	3đ	to S	urfac	е			: }
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APPROVED BY (DIVI	SION ENGUNEER)		7		DATE		APPROV	ED BY	المارية	100	PERINTEN	DENT)		المرح	MEY.	и, Олу дес,
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WELL LOG SUMMARY

DIV. FIELD	FARM	May Klder		Mershall Well No.
5 Majorsville ORIGIN OF FORMATION DEPTHS	X Dril	ller's Log		Service Company Log Combination
FORMATION	ТОР	воттом	THICKNESS	REMARKS (Water, Gas, Oll encountered-Open Flows-Rock Pressure-etc.)
Active Well Drilled 11/22/	48 Rec	onditione	i on W.O.	2301-I-2858-5
Taken from Original Well F				deriet.
Pittsburgh Coal	797	803	6	4705100192
Little Dunkard	1160	1170	10	
Big Dunkard	1280	1302	22	
Gas Sand	1398	1505	107	
lst. Salt Sand	1540	1610	70	Show of Gas 1552-1555'(Orig.Record)
3rd. Selt Sand	1725	1798	73	Water 1775-1785' (Orig.Record)
Big Injun				Gag - 1954 to 1968' (Orig.Record)
Reconditioned to Original				
total depth of 1978				
TOTAL DEPTH		1978	٠.	
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FORM 109 C 5 D THE MANUFACTURERS LIGHT & HEAT CO. Division 5 Record of well No. hook on Mary Elder Farm 300 Acres Majorsville Storage Field Welster District Marshall County State N. Va. Rig Commenced Sept. 13 19 48 Completed Sept. 26, 1948 Drilling Commenced October 3, 19 48. Completed November 22, 1918 Contractor Rawe Drilling Co. Address New Martinsville, W. Va. Driller's Name Willard Lemasters, Wm. Perry Wayne Rawe Pool Dressers- Archie Sole, J. H. Throckmortin, John Blati CASING AND TUBING RECORD Conductor 13" 058" 5 5.16" Used in Drig. 16r 81.31 1/101 1908 Left in well 161 843: 14:10: 19081 19691 PACKER RECORD SHOOTING RECORD Depth Set Type Packer Date Type Explosive DEPTH Amount Volume Volume Before Cu. Ft. 6 5/8"41" After Cu. Ft 19271 Anchor VOLUME AND PRESSURE Date Reading in Inches Liquid PRESSURE IN MIN. Volume Sand 1 5 10 30 Max. R. P. Hours 60 11/22/18 80/10 Mercury 1,11 6,286,080 Big Injun 220 302 312 330 弘0 368 TOTAL INITIAL OPEN FLOW CUBIC FEET PER 24 HOURS FORMATION TOP BOTTOM THICKNESS REMARKS Clay 16 16 Slate 16 35 19 Limo 35 50 15 Slate 50 120 70 Red Rock 120 135 15 Slate 135 175 Lo Lime 175 190 15 Slate 190 240 50 Sand 21:0 255 15 Slate 255 280 25 Lime 280 290 10 Slate 290 320 30 Lime 320 330 10 Slate 330 370 40 Lime 370 380 10 Slate 380 400 20 Lime 400 Lilio 40 Slate 140 145 5 Showing of coal 145 148 3 Lime 148 458 10 Slate 458 180 22 Lime 480 500 20 Sand 500 520 20 Slate 520 530 10

Lime

Slate

Slate

Mapletown Coal

Rawe Drilling Co. Contractor

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Examined and Approved by Than Ofland Field Superintendent

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				Comp	any		PAGE 2						
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lle Stor	rage Field	Webs			" Marsha	11			The same of				
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	i		19 .		Completed								
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Conductor	13"	10"			ING RECO	RD T		1					
				7"	0.5.8"	5	3/16"	_	4"		3"		
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ER RECOR	D				1					1			
Depth Set	Type Packe	r Date	Type	Explosion		TINO	_						
				- Jane	Amount	T			ottom				olume
		-		0110								Alte	r Cu. Ft.
Reading	Liquid	Size			D PRESSUR	E	Diversi						
in Inches		Orifice	Volume		Sand	1	PRESS	URE 11		60		Max. R. p	Hours
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IAL OPEN	FLOW		1	_1_									
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FORMATION		TOP	BOTTOM	THICKNESS					Province				
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d Sand		1160	1170	10				1				-	
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-		1197	1210	13									
	Conductor Conductor Conductor ER RECOR Depth Set Reading in Inches	Ile Storage Field nenced commenced commenced commenced commenced read and a second commenced read and a second commenced read a second commence read a second	Top	The Storage Field Webster The Name T	The Storage Field Webster Share Edger Powner	The Storage Field The	The Storage Field Webster Description Description	11e Storage Field Wobster Derivate Marshall Countered 19 Completed Conductor Condu	Table Tabl	Well No. 1,00 . On May Fider Farm 30	Mean Mean	Weel No.	Mean Mean

Division	FORM 109 C	50		THE	MANUFACI	URERS LI	GHT & H	EAT (œ.							
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Hause Drilling Co. Cont

Examined and Approved by

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of what sand and at what depth Oil, Gus or water was found, the quantity of same, the quality of the annual and the band on the head of "Remarks" must be recorded

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							Abd. Well Redrilled for
							Stg.
							W. 0. 1952-L-1882-5.
							υ 1
							2
							9
							N

ELEV. 1261.54 GL	COMPLETION REPORT Majorsville Shall	low	NO. 4	
FARM John and E.	mma Crow		MAP SQ:	
WELL OWNERS FMP/DIST_Webster PERMIT NO	COUNTY Marshall	_ STATE	WV TED. 2:5:	
OPEN 9250 M. C. F. \$	1st Salt Sand	R. P.	460 [#]	
1st Salt 1464-1477	_ INJUN			
MAXON	_ BEREA			\$ o
BIG LIME				510019
				N

WELL LOG SUMMARY

	COMPANY	,									īv.	FIELD					WEI	LL NO.
	The i	Serie.	factur	ec.	Lich	L & He	at Co	many			5	Mas	orav.	1776	·	****	1	-hooh
	FARM NA	ME			1/	CRES	LEASE	NO. D15	STRICT	- T2520		13.73		OUNT				STATE
LOCATION	Mo	r Ri	der		1	96	19h	.7	Wehi	ster				350	reke	.33		W.YR.
	торо.		herón				#744	**		3 000				3726	11111	-		
	MAP			-	_ ५००	drangle _	•		F1	. He		°!				ູ້		/ and
	CONTRAC	ror's	NAME						Г.,		1	0		_				
	n n		D							1	1 - "	nditi				٠,	2000	
	ADDRESS	033	Burns									from		9		1. 10	1710	F+.
CONTRACTOR	ŀ										l _		TA.:		e To			
	DATE AT	1	COMMENC		DATE	WELL CO	MOI ETI	FD	Fro	MDI ETI		E of Rig				COMPL		
70.	condit				1				1				_		l	_	_	
~				ردرن	_	9/			- [-					eef ~	- Op	en H	010	
HOLE	BIT GAU					13m		On	1:	8=			Ti .	\perp				
SIZE	FROM-1		eet)		0 -	8h31	814	<u>-1410</u>	136	10-1	₹08		_197	31		•		
CASING	SIZE (O.					3/40		3 5/8°		74	٠		<u>}-</u>				<u></u>	
AND	WEIGHT			· ·	Qr:	lginal	. O	rigina'	L Co	rigi	al.	12	6#					•
TUBING	STEEL G				3	FQ:2		8=		7*		3-	<u> 55</u>					
(All Measurement	COUPLIN				Cat	ring	Ce	sing	C	actn	Ż	_ S	ort				Ţ	
less threads)	SETTING									1908		19	100				1	
	LEFT IN	HOLE			81	37	1	130:		1908	ŧ .	19	778				T	
	NUMBER	OF S	ACKS		51)	1		1	150		22		1		-	T	
	TYPE				E	3				IS		I		T			† •	
CEMENT	WEIGHT	(# Gol	.)		10	2			\top	15.3	1.	36	.3_				1	
	RETURN	to SU	RFACE(Ye	s-No)					1	Yes		Te	-	\neg			T	
	PLUG DO	WN P	RESSURE	$\neg \neg$	***		_	·······	1	800		8		\neg			+	
CEMENTING	MANUFA	CTUR	ER						\top	V			inal	Poc	kor		+-	
SHOE	TYPE								1				or Pa				1	
OR	SIZE					_			+				80X				1	
PACKER	SETTING	DEP.	TH						+-			192		-			+	
	TREATME	ΝΤ	TYPE	SIZE	AND/OR	AMOUN	T ZO	NE TRE	TED	OPE	NFL	OW-MC		PERF	FORME	ED BY	 	DATE
WELL		\top					Fron			Befor							+	
		- [ĺ			To	•		After			- 1				1 ,	
STIMULATION		+					Fron			Befor							 '	
(Attach Completed		-					To	1		After	œ		1				Ι,	
Form PD-17 -		+								} ``						 -	┼╌┦	<u> </u>
"Well Stimulation		-		· ·			Fron	n		Befor	-						1 ,	
Report" if applicable)		+		 						After			\rightarrow				┅	
фрисация				Ì			Fron To	n		Befor	e						Ι,	
		т.			τ—		110		T	After						_		71.01
	DATE GAT	JGED	PORMA	TION	1	PAY	ZONE			E GA		PRES (SPECIFY	SURE	OP	IZE ENING	- 	OPEN	
OPEN			704 -		 	207			+		'' 	(SPECIF)	UNITS	(IN	CHES)	MCI	R/DAY	HRS.BLOWN
FLOW	8 30	142	Big			1954				de	. 1		_	١.				ا ما
TESTS	9 30	(0)	Injun	<u> </u>	То	1968				tatio		1309			#	120	895	5 min.
			Big		1	1954			1	ltot	ı	4.5		١.		Ι,		م سدا
	6 6	0,5	Injan		To	1968				pe		Herc			g		,090	15 min.
	DATE GA	UGED	FORMA	TION				SSURES					WELLH	IEAD	PRES	SURE	S - PS	IG.
			<u> </u>		1	3	5	10.	20	30		24HR.	48HR	. 7:	ZHR.	MAX.P	RESS	HOURS
WELLHEAD			Big			 					.	•	 	۱.	1			<u> </u>
PRESSURE	8 30	63	Inju	12	785	870	890	890	890	890	2	890	896	4	90	89	3	72 br.
					120	610								\top				
TESTS	L	<u></u>			420	610	1											
			Big		1			1										
	6 6	63	Inju	2	<u> </u>		L	1					<u> </u>			52		
	_		EMENT TAP		_	_								DIST.	TO GRO	OND	ELEV	ATION
MISC.	Derrie	k Flo		Ground		Other (Spaclfy)								2	Feet	131	1.60 G.I
	LOGGED	_	i.	GEO BY	(COMP	ANY)											DATE L	.OGGED
	Yes	K.	No															i
		_			_			_	_	_ ~								
	Origi	nal_	10º Ca	sing	Come	inted:	in A	majna	ter	1 1#	, br	pe						
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	Origi	nel.	7# Gas	ing 1	Perfe	rated	at I	430	må E	ener	rted	to S	urfa	26				
	19001	of	Hou his	# 20°	bing	Joine	d up	to Ori	gin	il ti	<u>odn</u>	gand	Cent	nte	d to	Ser	face	
REMARKS						_	_											
	W.O.	2301	-I-285	8-5														
i																		•
																	•	
APPROVES BY (DIVI	STORY TO STORY	ER)	/ /			DATE		APPRO	ED BY	(DIVIS	10 N SU	PERINTE	NDENT)				DATE	
Slavill;	1 km	el L	ut			192	74	3										
1111111111111	7 -1		DD (41)	2 /-		- D					1.0	1.0	<i>///-</i>					

WELL LOG SUMMARY

	FARM			COUNTY	WELL NO.
5 Majorsville		New Elder	·	Marshall	Lationt
ORIGIN OF FORMATION DEPTHS	X Dri	iler's Log		Service Company Log	Combination
FORMATION .	т.ор.	BOTTOM	THICKNESS	REMA (Water, Gas, Oil encountered-Ope	RKS m Flows-Rock Pressure-etc.
Active Well Drilled 11/29	/h8 Re	conditions	d on W.O.	2301-I-2858-5	
Taken from Original Well					
Pittsburgh Coal	797	803	6	-	
little Dunkerd	1360	1170	20		
Big Dunkard	1280	1305	22		
Ges Sand	1398	1505	307		
lst. Salt Sand	15k0	1610	70	Show of Gas 1552-1555	(Grig.Record)
ord. Salt Sand	1725	1798	73	Water 1775-1785' (Oct.	
die Injun				fas - 1954 to 1968' (
leconditioned to Original					A A A A A A A A A A A A A A A A A A A
total depth of 1978!					
OTAL DEPTH	-	1978			
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				7	80, 301p
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					Environmental Ga
i	1	1			neprial
					210 - 20,000

Form PD-34 CSD COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES NOTICE OF WELL STATUS CHANGE COMPANY FIELD FOREIGN WELL NO. COMPANY WELL NO. The Hannfacturers Light & Heat Company Majorsville FARM NAME LEASE-DEED DATE COMP, LAST ACTIVE WELL ON FARM Webs ter E USE ONLY) (THIS BLOCK FOR GENERAL OF YES **₹** No SURRENDER LEASE RENEW LEASE OTHER Production **STATUS** DRILLING WELL ☐ Storage Remarks PRIOR Production TO THIS ACTIVE WELL **変** Storage REPORT ABANDONED WELL Gas COMPLETED Dry Retained REDRILLED FOR STORAGE Abandoned Retained RECONDITIONED WELL Abandoned **STATUS** RECONDITIONED & TRANSF. TO STORAGE CHANGE ☐ Production TRANSFERRED TO ☐ Storage OR Production **PURCHASED FOR** WORK Storage PERFORMED DRILLED DEEPER PLUGGED AND ABANDONED SOLD LUGGED RACK Recorditioned to MO MO YES foot Into Big Inter If Yes, to depth of WELL TREATMENT] No If Yes, Type of Treatment YPE OF GAUGE BEFORE Orifice Well Tester Pitct Tube Other (Specify) COMPLETION TREAT-GAUGE READING Morcury MENT OPEN DATA inches Water psig through. inch opening after blowing FLOW ROCK PRESSURE applicable) (If applicable) cubic feet per day psig in _ . hours FLOW TYPE OF GAUGE Orifice Well Tester w Other (Specify) Side Static Pitot Tube GAUGE READING FINAL TEST Mercury 33 paig through _ _4_ inches Water _inch opening after blowing READING ROCK PRESSURE FLOW 16,895,000 890 psig in _cubic feet per day 72 hours For General Office Use Well Order Number **AUTHORI-**DEPARTMENT SECTION NOTED BY DATE ZATION FOR WORK Work Order Number Geology PERFORMED Storage Abandonment Order Number

PRODUCTION

LAND OPERATING

CIVIL ENGINEERING

TREASURY

MACHINE NUMBER OR CONTRACTORS NAME

Dato 9/16/63

Ross Burns

DIVISION SUPERINTENDENT

A. Schafer

WORK PER-FORMED BY

Approved By .

Compiled By D. Gambier

Clerical

Land Accounting

Plant Accounting

Μαρ

Return to Land Operating Department for filing

											•							
	COMPANY									יום		FIELD						L NO.
	The		ı fac tur	ers			et. Co	unbana		5		Maj	orsv.				In	10011
LOCATION					^"					- T80848C	TON	REHRA	·	OUN				STATE
		y El	neron			96	19lılı		Webs	ter				F	arsha			W.Va.
	TOPO.	V du	IEI OII		Quad	laug _{la} —	-		F1			of				` —		/ and
	CONTRAC	TOR'S	NAME							He	CO	nditi						
		088	Burns						٠			168 from			0F	. <u>. 10</u>	978	F ₁ ,
CONTRACTOR	ADDRESS												•		la To	ol		
	W	ayne	Spurg,	Pa.	6	WELL CO						e of Rig		.11	ling :			
Re			ing 5/2			4 9/2		.0	COK	4PLETED	101	197				comple en Ho		
	BIT GAU			7,00	•	<u>1.7/4</u>		.On	+	811	_	1 6		cet	ري ا	en no	716	
HOLE Size	FROM - 1				0 -			-11:10 ·	47.4	.0-190	प्रद		 -1978	11		·		
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- CASING	WEIGHT		r			ginal	Or	iginal	Or	igina	ī		. 6#	7	•			
AND TUBING	STEEL G	RADE			1	ŌĦ.		8 ⁿ		711		J	55			ED 3	0.19	h-l
(All Magsurement)	COUPLIN				Cas	ing	Ca	sing		sing			ort	\Box				<u>. </u>
less threads)	SETTING							201	_	9081			001	4	P. 20	uction	Сера	rtment
	LEFT IN				814	<u>3. </u>	14	101	+	9081			781	+		;. -	-	
•	NUMBER	OF 3/	HCN3		50 IS		 		+	150 IS		22 IS		+				
CEMENT	WEIGHT	(# Gal	.)		15	-2			+	<u>15.1</u>		15		+				 '
			RFACE(Y	s-No)	<u></u>	yt			1	Yes		Ye		\dashv				
	PLUG DO									800		80	0	ightharpoons				
CEMENTING	MANUFA	CTUR	ER						<u> </u>				inal					
SHOE	TYPE						-		-				or Pa		er		<u> </u>	
OR	SIZE	DED.	nu .				├		+		_	192	8"X 1	2				
PACKER	SETTING		TYPE	Size	AND/OP	AMOUN	r zos	NE TREA	TEP	OPEN	FL	OW-MCF		EP	FORME	D BY		DATE
WELL	TREA THE	-					From			Before		• • • • • • • • • • • • • • • • • • • •	-					
							To	•		After		•					1	1
STIMULATION					•		From			Before								•
(Attach Completed Form PD-17 -				<u> </u>	·		То			After								
"Well Stimulation		1			•		From	٠.		Before			İ					
Report" if applicable)		-		ļ			То			After			+				1	
oppricusie)		l				٠	From	•		Before After			ı				i	, i
· ·				=:-:					TYP	E GAUC	3 E	PRES	SURE	Ī.	SIZE		PEN	FLOW
OPEN	DATE GAI	UGED	FORMA	TION			ZONE		(5	PECIFY)		(SPECIFY	UNITS)	٦	PENING INCHES)	MCR,	DAY	HRS.BLOWN
FLOW		100	Pig			1954				.de					1	1	004	. را
TESTS	8 30	63	Injun	1		<u> 1968 -</u>	· •:	<u> </u>		atic	\dashv	13ps 4•5			<u>4"</u>	16,	695	5 min.
12010	616	163	Big Injun			1954 1968				.tot ibe	- 1	Merc		1)-ta	1 1,-	090	15 min.
	0 10	105	717/011	· · ·	To	<u> </u>	7 DDD	SSURES			ᆉ		<u> </u>	<u> </u>	DPRES			<u> </u>
	DATE GA	UGED	FORMA	TION	 	3	5	10.	20	30	+	24HR.	48HR	_	72HR.	MAX.PR		HOURS
WC111245			Big								\top			十		•		
WELLHEAD PRESSURE	8 30	63	Inju	n	785	870	890	890	890	890	1	890	890	Ļ	890	890		72 hr.
					120	610		i i			1				İ			
TESTS		1			1420	910					╀			+			-	
	6 6	163	Big Inju		ł			1 1							. #	523	- 1	
	DEPTH ME		EMENT TAI	KEN PR	OM:									DIST	r. TO GRO			ATION
	X Derri	ck Flo	ior	Groun	a [Otlier (S	pecify)								2	Feet	134	1.60 G.I
MISC.	LOGGED		roc	GED B	Y (COMP	AHY)											DATE L	.OGGED
	Yos		No															
	٠		10" Ca			ntod -	in 4-		+	, z <u>i</u> n	ma.	700						
	origi	na_	TO. CB	STUG	∪eme	meea :	ш АГ	minmin	htt.	* T.V.	ħΤ	'na						
- '	Orisi	nal	7" Cas	ing	Perfo	rated	at 1	1:30 ° a	nd C	ement	bed	to S	urfac	e:		•		:
•																		
	19001	of	New 4	n Tu	bing	joine	l up	to Ori	gina	1 tub	<u>in</u>	g and	Cem	ent	ed to	Surf	ace	
DENVEN								•			_		-	_				
REMARKS														_				
	W.O	2207	L-I-285	'8£	1 Ac	TIVE	ځک -	DRAG	= u	Vecc	_	Rec	ONDI	~/	on el	,)		·
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	<u> </u>	- Zi-				DATE		APPROV		กรเมื่อเอ	<u>, </u>	, 	**************************************				DATE	<u> </u>
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XVacro	100	1.62	<u> </u>	1		<u> 17 'E</u>	160	21	<u> </u>					<u>~_7</u>	/	l	<u>./k</u>	7725

PRODUCTION-STORAGE DEPTS-G.O. 1913 69329/

COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES

2 of 2 Sheets

9 2

WELL LOG SUMMARY

DIV.	FIELD	FARM			COUNTY	WELL NO. I-4004
ORIG	Majoraville N OF FORMATION DEPTHS	T Dri	May Elder ller's Log		Marshall Service Company Log	Combination
	FORMATION	TOP	воттом	THICKNESS	REMARK	<u>-</u>
					(Water, Gas, Oll encountered-Open F	lows-rock Pressure-etc.)
	ive Well Drilled 11/22/	ł	onditione	d on W.O.	2301-I-2858-5	
Tak	en from Original Well B	ecord				
					47	051001
Pit	tsburgh Coal	797	803	6		
Lit	tle Dunkard	1160	1170	10		·
Big	Dunkard	1280 [.]	1302	22		
Gas	Sand	1398	1505	107		
lst	• Salt Sand	1540	1610	70	Show of Gas 1552-1555'(rig.Record)
3rd	. Salt Sand	1725	1798	73	Water 1775-1785' (Orig.	lecord)
Big	Injun	•	• .		Gas - 1954 to 1968' (Ori	g.Record)
Rec	onditioned to Original					
tot	al depth of 1978					
	AL DEPTH		1978	-		
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Division				'EE MANJE	ACTURERS Comp	LIGHT &	HEA	T CO	•	-			N	N=
	f well No.			on Mary	Elder			Far	221	700		- 4		
<u>Majorsvil</u>		ge Field	Welste		a11	Cou		_300		-	Acres State			
Rig Com	THE RESERVE TO SHARE	Sept.		19 48	District	Completed			. 26		• Va		late	
Drilling	Commence	ed Octob	er 3,	19 48.		Completed			-			1948 1948		_
Contract	or Rawe	Drilling	Co.			Adduses								+
Driller's	Name 7	Fillerd Te	ma ctore	Wm. Parr				New	wart	2.nsv	ille,	. W. V.	a	
Pool Dr	essers-	Archie Sc	le, J. E	• Throcky	ortin, J	ohn Bla	ti							+
	·	-	4		G AND TUE						1			-
	Conductor	13"	10"	¥1 4"·	7#	0.5 8"	T	3.16"		4"	1	3"		-
Used in Drig.	161		81.31	1/:10:		1908			+	_	+-			1
Left in well	161		8431	1/10:		1908		\rightarrow	1	200.	-	-+		-
PACE	KER RECO	RD					-	S REC		9891	1		-	
Sige	Depth Set	Type Packer	Date	Tyre E	vplasive	Amount	1		PTH	-		Volume	-	Volume
6 5/8" ^A L"	1927	Anchor		-			 _ T	ор	B	otton		ore Cu. Ft.		ter Cu. Ft.
	/-	Anciron		V	DLUME ANI	D PRESSU	PE			-				
Date	Reading in Inches	Liquid	Size	Volume				PRES	SURE 1	N MIN.	-			
11/22/18			Orifice			Sand	1	5	10	30	60	24 Hour R. P.	Max. R. P	Hours
11/22/110	80/10	Mercury)131	6.286.05	0 Big I	njuu	220	302	312	330	340	368		
TOTAL INI	TIAL OPEN	LELOW			يبدالب									
			T	-			CL	BICF	EET	ER 2	4 HOU	RS		
*	FORMATIO:	N.	TOP	воттом	THICKNESS	remarks								
Clay			0	16	16							-	-	-
Slate			16	35	19					-	-	-		
Lime			35	50	15	1		_		-	_		-	
Slate			50	120	70			-	-	-	_		-	-
Red Rock			120	135	15		-			-		-		-
Slate			135	175	Lo			-	-	-				
Lime			175	190	15		-	-	-	-		-		-
Slate		+	190	වැර - 270	50			-	-	-	-		-	
Sand			2):0	255	15						-	-	-	
Slate			255	280	25		-	-		-	-		-	
Lime			280	290	10	-	-	-	-	-	-	-	-	
Slate			290	320	30			-	-	*	-	-		
Lime			320	330	10	1		-	-	-				
Slate			330	370	40	13.	-						-	
Lime			370	380	10		-	-	***	-	=	-		
Slate	-		<i>3</i> 80	400	20	100		-				-		
Lime			1,00	lilio	2.0								-	1100
Slate			الباري	14.5	5			-	_	*	-	-	-	-
Showing of	coal		1115	148	3					****				
Lime			448	458	10									- 17.0 9
Slate			458	480	22			140				-	-	-
Lime			480	500	20								-	1
Sand			500	520	20								-	
S1 ate			520	550	10							-		
Lime			530	688	158							-	-	
Slate			688	692	4									
Mapletown	Cca1		692	69L	2									1
Slate			694	698	1,							-		
Examined above in	formation and	management	and the second	The same										and the same

Division Record o	f well No.	1,001		Aug III	Comp					PAC	E 2	
Majorsv			-		V Elder			Far	m ·	300	1	Acres
Rig Com	menced	# EE 1010	Webs	150	District	Marshal	1	Cou	nty T	7. Va.		State
	Commence	d	-		-	Completed	•				19	
Contracto				19 ,		Completed					19	-
Driller's						Address						
												
-				CASIN	G AND THE	ING RECOR	-		-			
	Conductor	13"	10"	81.4"	7"		_		-			
Used in Urig.						0.5.8"	5	3/16"	4"		3"	
Left in well							_					
PACK	ER RECOR	D		4		51100						
Sige	Depth Set	Type Packe	r Date	Tyre E	vplosive	SHOOT	INC					
			#	+		Amount	To	DEI	TH Bottom	В	Volume fore Cu. Ft.	Vo After
4.+				V	DI LIME AND	PRESSURE						Atter
Date	Reading in Inches	Liquid	Size	The second				Phree	JRE IN MI			
	Tuestes	-	Orifice	Volume		Sand	1	3	10 30		24 Hour R. P.	Max. R. P.
TOTAL INF	IAL OPEN	FLOW										
-			VE -				cu	BIC F	ET PER	24 HO	URS	1
	FORMATION		TOP	BOTTOM	THICKNESS				REV	LARKS		
me			698	7700			_					
late & She	ells		780	780	82		_					
ttsburgh		V-2-113	797	797	17		*					
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Environmental Profession

FORM WW-4(A) Revised 6-07

4) SURFACE OWNER(S) TO BE SERVED

1) Date: March 18, 2016

2) Operator's Well No. SGW-156

04/29/2016

3) API Well No. 47 - 51 - 00192 State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) SURFACE OWNER(S) TO BE SERVED	5)a) COAL OPERATOR
(a) Name Brian K. Milliken	Name <u>CONSOLIDATION COAL CO.</u>
Address 1018 China berry Rd Clearwater FL 33764	Address 1 Bridge Street
Creat 100 C 77/69	Monongah, WV 26554
(b) Name	(b) COAL OWNER(S) WITH DECLARATION:
Address	Name
3/4/4	Address
(c) Name	
Address	() COAL A ESCRET WITH DECLARATION
(6) INSPECTOR Eric Blend	(c) COAL LESSEE WITH DECLARATION:
Address PO BOX 2115	Name
Wheeling, WV 26003	Address
Telephone (304) 552-1179	
3 97 000 000	
(1) The Application to Plug and Abandon a W parties involved in the work, and describes work order; and (2) The Plat (surveyor's map) showing the we THE REASON YOU RECEIVED THESE DOCUMENTS WHICH ARE SUMMARIZED IN THE "INSTRUCTION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEY Take notice under Chapter 22-6 of the West Virginia and Application and accompanying documents for a permit Virginia Department of Environmental Protection, with reson the attached From WW-6. Copies of this Notice, the Application and Environmental Protection, with reson the attached From WW-6. Copies of this Notice, the Application and Surveyor WW-6.	s the well and its location and the plugging
	WELL OPERATOR Consolidation Coal Company
	By Mason Smith Musory Sura 3-29-16
	Its Project Engineer .
	Address 6126 Energy Road .
	Moundsville, WV 26041 .
	Telephone (304) – 843 – 3565
Subscribed and sworn before me this 30th day of March	Notary Public Joseph E Williams 1317 Fifth Street The middle Mark Street The
Joseph E Williams	Notary Public Joseph E Williams
	1812 Fifth Street
Marshall County, State of West Virgin	The Commission Francis in S. 2024
The state of the s	=======================================
My commission expires June, 2029	Office of
	APR 13 2016
Oil and Gas Privacy Notice	
personal information may be disclosed to other State agenc regulatory requirements, including Freedom of Information	tion, such as name, address and phone number, as a part of our regulators duties. Your cies or third parties in the normal course of business or as needed to comply with statutory or a Act requests. Our office will appropriately secure your personal appropriation. If you have any se contact DEP's Chief Privacy Officer at depprivacy officer wv.gov.

MURRAY AMERICAN ENERGY, INC. & CONSOLIDATION COAL COMPANY

4705100192

MURRAY AMERICAN ENERGY, INC. & CONSOLIDATION COAL COMPANY

46226 National Road St. Clairsville, OH 43950

phone: 304.843.3565 fax: 304.843.3546

e-mail: MasonSmith@coalsource.com

MASON SMITH Project Engineer

April 1, 2016

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

To Whom It May Concern,

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

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

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

Sincerely,

Mason Smith Project Engineer

Office of Oil and Gas

APR 13 2016

WV Department of
Environmental Protection

04/29/2016

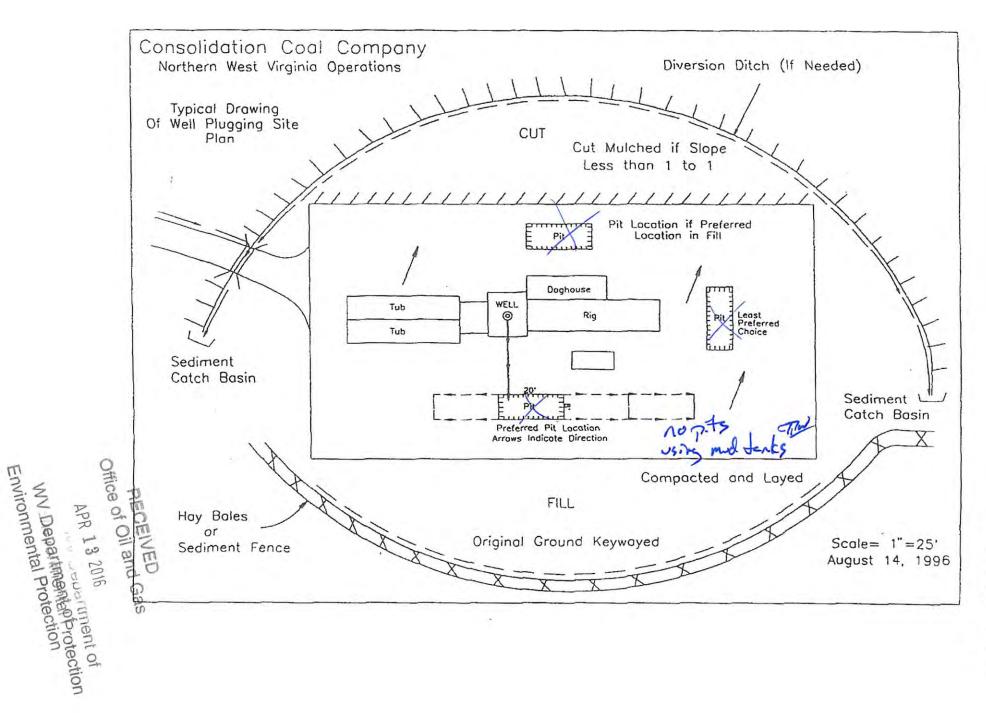
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Operator's Well No	SG'	W-156	

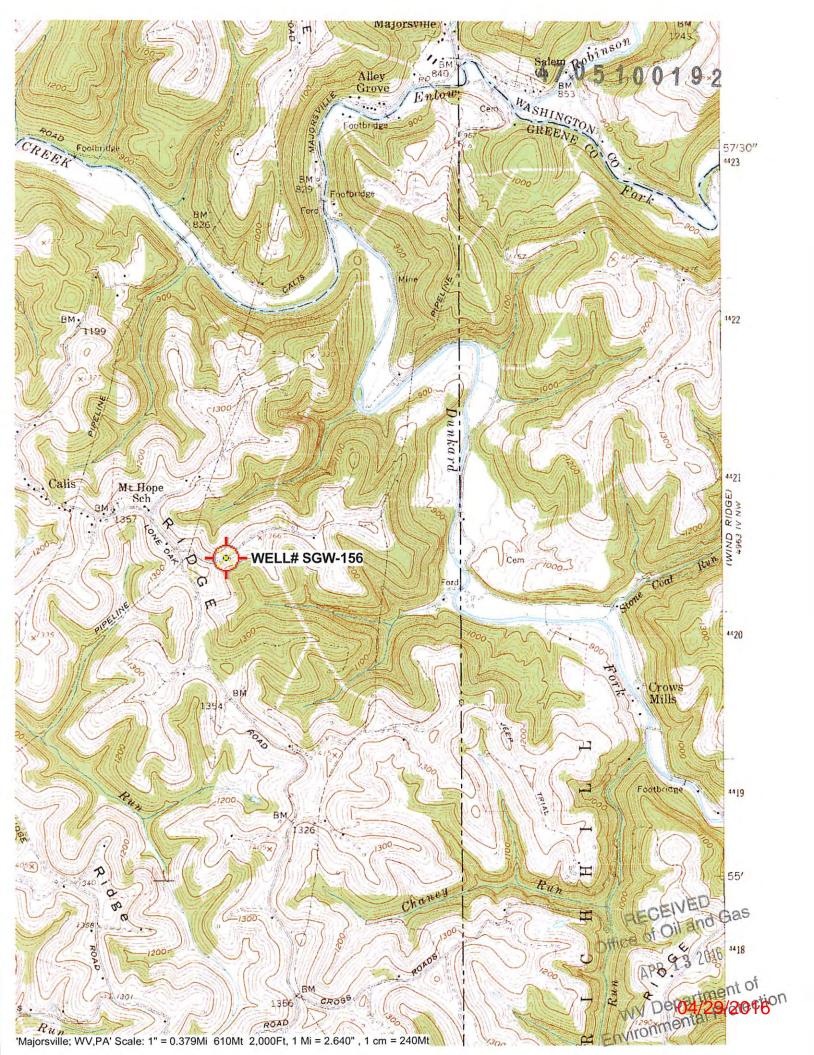
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

4705100192

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Consolidation Coal Company OP Code						
Watershed I	Ounkard Fork of Wh	eeling Creek		Quadrangle Majorsville, WV-PA		
Elevation	1344.58'	County _	Marshall	District Webster		
Description of	anticipated Pit Waste	: <u>N/A</u>				
Do you anticip	pate using more than 5	,000 bbls of w	ater to complete the p	proposed well work? Yes NoX		
Will a syntheti	ic liner be used in the	pit? N/A	If se	o, what mil.?		
Proposed Disp	Reuse (at Off Site D	lication und Injection (I API Number_ isposal (Suppl	UIC Permit Number_ y form WW-9 for dis	posal location)		
If oil	im anticipated for this based, what type? Sy e used? <u>Benton</u>	nthetic, petrole	eum, etc.?	cFreshwater		
-If lef	ft in pit and plan to sol	idify what med	lium will be used? C	etc. Reused or Disposed (see attached letter) Sement, lime, sawdust		
on August 1, 2 provisions of t law or regulative I cert application for obtaining the	2005, by the Office of the permit are enforce on can lead to enforce ify under penalty of rm and all attachmen	Oil and Gas of able by law. I ment action. law that I have that the info	the West Virginia De Violations of any terr e personally examine I that, based on my rmation is true, accurate the possibility of Si	s of the GENERAL WATER POLLUTION PERMIT issued epartment of Environmental Protection. I understand that the m or condition of the general permit and/or other applicable ed and am familiar with the information submitted on this inquiry of those individuals immediately responsible for trate, and complete. I am aware that there are significant the or imprisonment.		
Company Offic	cial (Typed Name)	Mason	Smith			
Company Offic	cial Title	Project	Engineer			
Subscribed and	sworn before me this Williams	30+h	day of March	, 20 / GRECEIVED Notary Public of Oil and Gas		
My commissio	n expires <u>Ture</u> S	7, 2024		STATE OF WEST VIRGINIA NOTARY PUBLIC JOSEPH & Williams DAUBIZ First Street (1) MOUNTAIN PUBLIC MOUNTAIN		







West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-00192	WELL NO.: <u>SGW-156</u>
FARM NAME: May Elder	
RESPONSIBLE PARTY NAME: Consolidation	ion Coal Company
COUNTY: Marshall I	DISTRICT: Webster
QUADRANGLE: Majorsville, WV PA	
SURFACE OWNER: Brian K Milliken	
ROYALTY OWNER:	
UTM GPS NORTHING: 4,420,663 m	
UTM GPS EASTING: 539,593 m	GPS ELEVATION: 410 m
The Responsible Party named above has chosen to preparing a new well location plat for a plugging pabove well. The Office of Oil and Gas will not accept the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Cheight above mean sea level (MSL) – r. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Different Real-Time Different Mapping Grade GPS _X : Post Processed I Real-Time Different A. Letter size copy of the topography manual I the undersigned, hereby certify this data is correct belief and shows all the information required by laprescribed by the Office of Oil and Gas.	permit or assigned API number on the cept GPS coordinates that do not meet coordinate Units: meters, Altitude: meters. Trential
prescribed by the Office of Oil and Gas.	Office of APR 13 2016 Professional Surveyor
Signature March 18, 2016	Professional Surveyor Title WV Department of Environmental Protection
Date	Enviro. 04/29/2016

