



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, May 3, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
STORAGE TECHNICAL SERVICES - 6TH FLOOR
1700 MACCORKLE AVE. SE.
CHARLESTON, WV 25314

Re: Permit approval for 1852
47-051-00264-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 1852
Farm Name: MATHEWS, G.
U.S. WELL NUMBER: 47-051-00264-00-00
Vertical Plugging
Date Issued: 5/3/2021

I

4705100264

PERMIT CONDITIONS

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

CONDITIONS

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

05/07/2021

- 1) Date January 6, 2021
- 2) Operator's
Well No. Victory B 1852
- 3) API Well No. 47-051 - 00264-00-00

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage X) Deep ____/ Shallow X

5) Location: Elevation 1472.3' Watershed Ben Run - A Tributary of Fish Creek
District Liberty County Marshall Quadrangle Cameron, WV

6) Well Operator Columbia Gas Transmission, LLC 7) Designated Agent Brad Nelson, Storage Engineer
Address 1700 MacCorkle Avenue S.E., P.O. Box 1273 Address 455 Racetrack Road
Charleston, WV 25325 Washington, PA 15301

8) Oil and Gas Inspector to be notified Name James Nicholson
Address P.O. Box 44
Moundsville, WV 26041

9) Plugging Contractor Name Contractor Services, Inc. of West Virginia (ConServ)
Address 929 Charleston Road
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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

Work order approved by inspector Barry Stollings Date 1-12-21

05/07/2021

4705100264P

WELL JOB PLAN		Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 1/6/2021
Objective: Plug and Abandonment				LAST PROFILE UPDATE:	
TITLE: Plug and Abandonment			WORK TYPE: MOD3		
FIELD: Victory B	WELL: 1852				
STATE: WV	SHL (Lat/Long): 39.796110 -80.55695		API: 47-051-00264-00-00		
TWP: Liberty	BHL (Lat/Long): 39.796110 -80.55695		CNTY: Marshall		

PROCEDURE

- 1 Obtain NRP clearances, TOPs, pipeline crossing eval, etc.
- 2 Obtain State plugging permit.
- 3 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 4 Prepare access road and well site. Install ECD's per EM&CP.
- 5 Service all wellhead valves.
- 6 Document initial tubing / casing / annular pressures.
- 7 Load 4-1/2" casing, 4-1/2" x 7", and 7" x 8-5/8" annuli with kill fluid. Load 8-5/8" x 10-3/4" annulus with TFW.
- 8 MIRU service rig.
- 9 NU 2000 # 7-1/16" BOPs (double ram with blind & pipe + annular). Secure BOPs to eliminate free movement. Pressure test low/high to 250/1600 psig using packer set <30 ft. Pressure test TIW/stabbing valves.
- 10 Pull RBP and obtain CBL from TD to surface - keep hole full while logging. Notify WET engineer for CBL evaluation - procedure may change depending on results.
Consult with WE&T Engineer on results of CBL. Procedure may change depending on evaluation.
- 11 TIH with work string and cut-lip shoe. Clean to TD at ~2426'.
- 12 Circulate two bottoms up.
- 13 Spot balanced cement plug(s) from TD to 1800 ft. WOC minimum 6 hrs, tag cement. If cement top is deeper than 2040', then install second cement plug.
- 14 Install cast-iron DBP above cement plug.
- 15 ND BOPs, install pulling nipple on 4-1/2" and 7", dress 8-5/8" to accommodate BOPE.
- 16 NU 11" BOPE (blind + pipe) and annular on 8-5/8" casing. Need kill choke outlets below blind rams.
- 17 Function and pressure test low / high to 250 psig / 1000 psig.
- 18 Wireline freepoint and cut / pull all 4-1/2" casing that is free.
Consult with WE&T Engineer to determine whether CBL needs to be ran inside 7".
- 19 Wireline freepoint and cut / pull all 7" casing that is free.
Consult with WE&T Engineer to determine whether CBL needs to be ran inside 8-5/8".
Consult with WE&T Engineer to determine next steps.
- 20 If needed, next objective is to install annular cement barriers via perf and squeeze method.
- 21 Install balanced cement plugs from BP to 300' above cement top behind 8-5/8" or 1200', whichever is shallower.
- 22 ND BOP equipment. Consult with WE&T Engineer to determine if BOP equipment is needed on next steps.
- 23 NU 11" spool (with kill and choke outlets) and 11" annular BOP on 10-3/4".
- 24 Function and pressure test low / high to 250 psig / 500 psig.
- 25 Attempt to pull all 8-5/8" casing. If can't pull all of the 8-5/8" casing will need to either cut casing 50 ft below bottom of Pittsburgh Coal, pull, and cement to surface, or perf/squeeze to surface. State inspector, and/or coal operator (if applicable), will dictate method.
- 26 ND 11" BOPs.
- 27 Drive 10' to 20' of 13-3/8" casing.
- 28 Freepoint and cut/pull all 10-3/4" casing that is free.
- 29 TIH with work string and spot balanced cement plug(s) from top of cement plug to surface. WOC minimum 10 hrs, tag cement, and TOOH.
- 30 Top off well and all annuli with cement.
- 31 Install 7" csg monument 30" above GL, tack weld cap, and affix API number.
- 32 Reclaim road and location.

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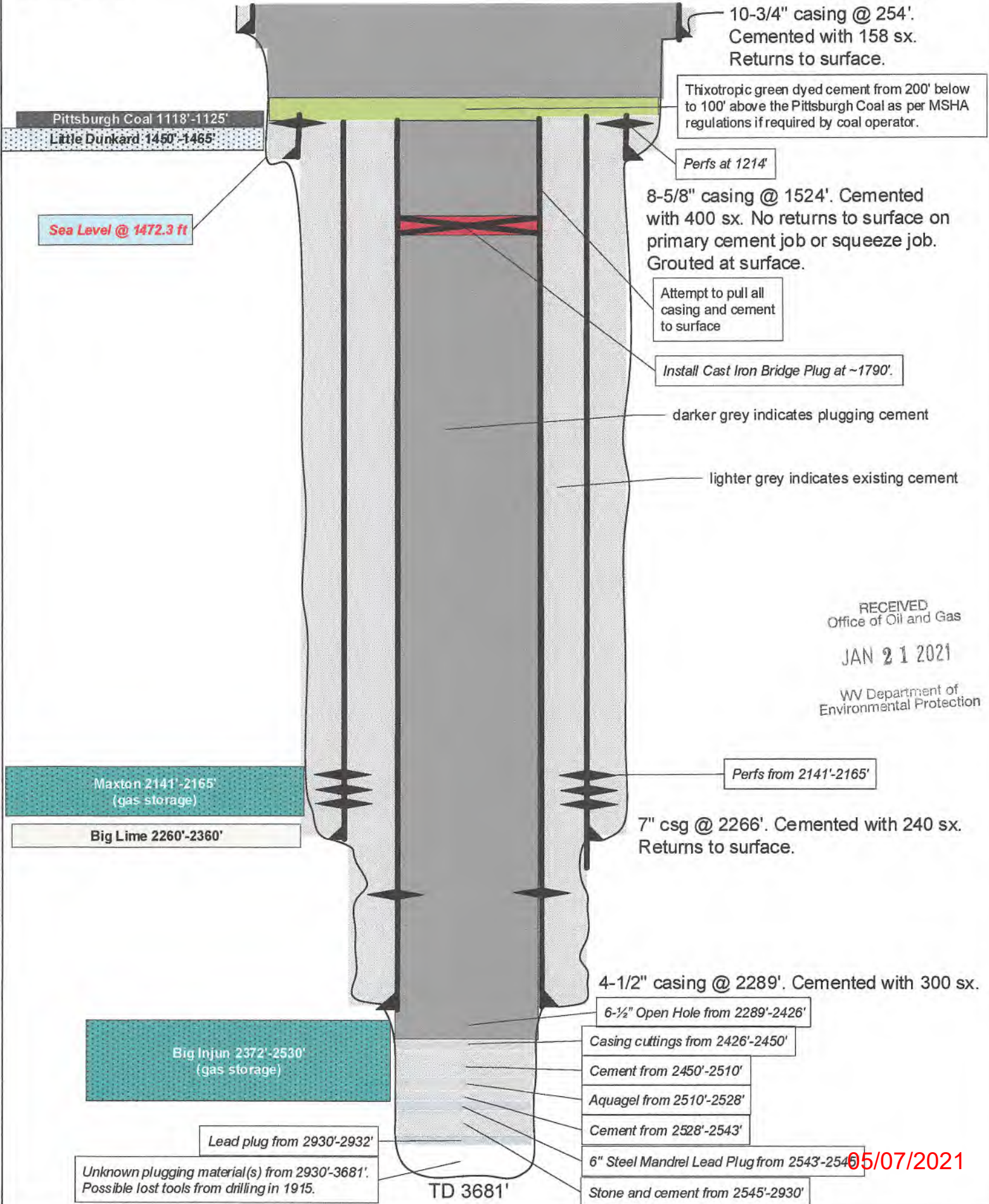
PREPARED BY: Brad Nelson	REVIEWED BY:	APPROVED:
PREP DATE: 1/6/2021		

05/07/2021

~ not to scale ~

* Water reported at 1800' by the driller in 1915.

Proposed P&A
(as of 1/5/2021)



10-3/4" casing @ 254'.
Cemented with 158 sx.
Returns to surface.

Thixotropic green dyed cement from 200' below to 100' above the Pittsburgh Coal as per MSHA regulations if required by coal operator.

Perfs at 1214'

8-5/8" casing @ 1524'. Cemented with 400 sx. No returns to surface on primary cement job or squeeze job. Grouted at surface.

Attempt to pull all casing and cement to surface

Install Cast Iron Bridge Plug at ~1790'.

darker grey indicates plugging cement

lighter grey indicates existing cement

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Perfs from 2141'-2165'

7" csg @ 2266'. Cemented with 240 sx.
Returns to surface.

4-1/2" casing @ 2289'. Cemented with 300 sx.

6-1/2" Open Hole from 2289'-2426'

Casing cuttings from 2426'-2450'

Cement from 2450'-2510'

Aquagel from 2510'-2528'

Cement from 2528'-2543'

6" Steel Mandrel Lead Plug from 2543'-2546'

Stone and cement from 2545'-2930'

Lead plug from 2930'-2932'

Unknown plugging material(s) from 2930'-3681'.
Possible lost tools from drilling in 1915.

TD 3681'

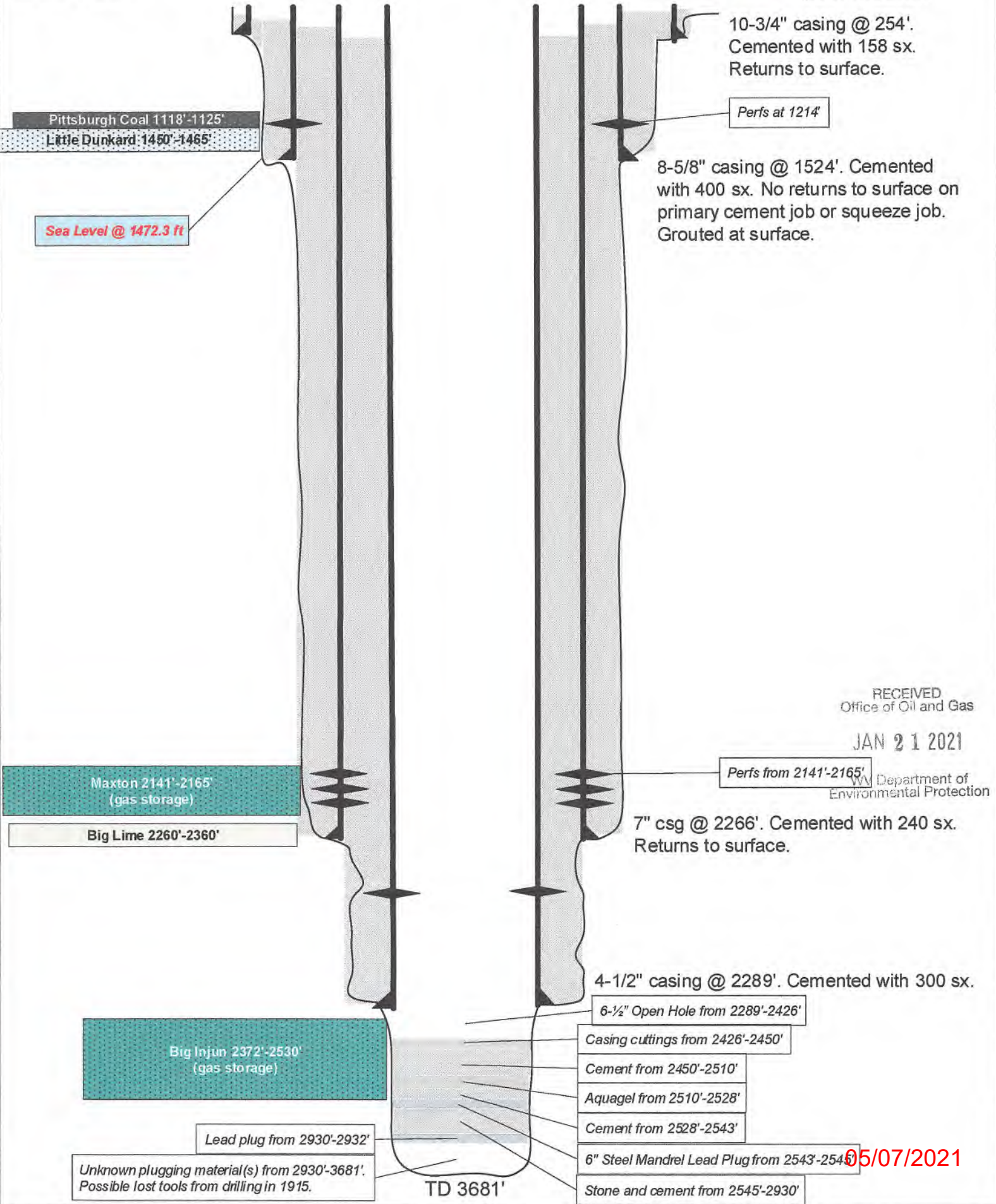
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~ not to scale ~

* Water reported at 1800' by the driller in 1915.

4705100264P VICTORY B 1852

Prior to P&A
(as of 10/8/2020)



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

4705100264P

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

COAL OPERATOR OR OWNER	The Manufacturers Light & Heat Company
ADDRESS	200 Union Trust Building Pittsburgh 27, Pennsylvania
COAL OPERATOR OR OWNER	<u>March 5</u> 19 <u>62</u>
ADDRESS	WELL AND LOCATION
LEASE OR PROPERTY OWNER	<u>Liberty</u> District
ADDRESS	<u>Marshall</u> County
	Well No. <u>1152</u>
	<u>Gay E. Mathews</u> Farm

STATE INSPECTOR SUPERVISING PLUGGING Irwan Shuman

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Marshall } SS:

Leslie E. Pothol and Edward L. Hinesbaugh

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by The Manufacturers Light & Heat Co. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 15th day of January, 1962, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
Original Depth	<u>2528</u>			
Annular	<u>2528 to 2530</u>			
Gravel	<u>2530 to 2550</u>			
Steel Cuttings From Drilling Window in 7" casing	<u>2550 to 2526</u>			
	<u>Notes: 25 lb. Cement was run through 7" tubing at Max. Flow from Pressure of 4700, 11.57 per gal. by Well Service Inc.</u>			
COAL SEAMS			DESCRIPTION OF MONUMENT	
(NAME) <u>Pittsburgh</u>	<u>1118 to 1125</u>		<u>Partial Plugging</u>	
(NAME)				
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 5th day of March, 19 62.

And further deponents saith not.

Sworn to and subscribed before me this 6th day of March, 1962.

My commission expires:
July 7, 1970

Leslie E. Pothol
Edward L. Hinesbaugh
William C. Lester

Notary Public.
Permit No. WAB-261-P

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WELL LOG SUMMARY

4705100264P

COMPANY: The Manufacturers Light & Heat Company
 DIV. FIELD: 4 Cameron
 WELL NO.: 1852
 FARM: Gay B. Mathews
 ACRES: 53
 LEASE NO.: 27243
 DISTRICT: Liberty
 COUNTY: Marshall
 STATE: W. Va.

CONTRACTOR: [Blank]
 ADDRESS: [Blank]
 Drilled from _____ Ft. to _____ Ft.
 Type of Rig: [Blank]
 CONTRACTOR: Company Machine No. 4043
 ADDRESS: P. O. Box # 156
 Cameron, West Virginia
 Drilled from _____ Ft. to _____ Ft.
 Type of Rig: Drilling Machine

FIRST RIG COMMENCED (DATE)	DRILLING COMPLETED (DATE)	COMPLETED TOTAL DEPTH	DATE PURCHASED	FOR. WELL NO.
1/19/62	3/5/62	2426 ft.		

HOLE SIZE	BIT GAUGE (INCHES)	13"	10"	8"	6"	4"
	FROM-TO (FEET)	0 to 254	0 to 1276	0 to 2266	0 to 2426	
CASING AND TUBING	SIZE (O.D.)	10-3/4"	8-5/8"	7"	4-1/2"	
	WEIGHT/FOOT	32#	24#	20#	12.6#	
	STEEL GRADE	H	J	J	J	
(All Measurements less threads)	COUPLING TYPE	Short	Short	Short	Short	
	SETTING DEPTH	254'	1524'	2266'	2289'	
	LEFT IN HOLE	254'	1524'	2266'	2289'	
CEMENT	NO. OF SACKS				300	
	TYPE				I-S	
	WEIGHT #/GAL.				14.5#	
PACKER	MANUFACTURER	Original	Original	Original	Halliburton	
	TYPE	Well	Well	Well	Formation	
	SIZE	Record	Record	Record	4 1/2" X 6 1/2"	
	SETTING DEPTH				2291'	

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MAR 9 - 1962

Production Department S. C. D.

TREATMENT	TYPE *	SIZE AND/OR AMOUNT	ZONE TREATED	OPEN FLOW MCF/DAY	PERFORMED BY	DATE
			From to	Before After		
	(None)		From to	Before After		
			From to	Before After		
			From to	Before After		

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OPEN FLOW TEST	DATE GAUGED	FORMATION	PAY ZONE	TYPE GAUGE (SPECIFY)	PRESSURE (SPECIFY UNITS)	SIZE OPENING-IN.	OPEN FLOW	
							M.C.F. / DAY	HRS. BLOWN
	2 7 62	Maxton, Big Inj. & Lower	From to	Orifice	84/10 W.	1"	71.3	7
	3 2 62	Big Inj.	From to	Orifice	72/10 W.	1/4"	4.7	2

WELLHEAD PRESSURE TESTS	DATE TAKEN	FORMATION	MINUTE PRESSURE - PSIG						WELLHEAD PRESSURE - PSIG					
			1	3	5	10	20	30	24 HR.	48 HR.	72 HR.	MAX. PRESS.	TIME	
	3 5 62											585		

MISC. DEPTH MEASUREMENT TAKEN FROM:
 Derrick Floor Ground Other (Specify) _____
 DIST. TO GROUND: 2 ft. ELEVATION: 1179'
 LOGGED BY (COMPANY): Schlumberger Well Survey Corp.
 Yes No
 DATE LOGGED: 10 4 54 / 2 8 62

REMARKS: Well was leaking gas from deeper sands. Pulled 2539' of 4 1/2" Tubing, Cemented back from 2510' to 2450' through 2" Tubing. Cut Window in 7" Csg. from 2073' to 2090' W/ Servco Section Mill & Underreamed a 11 1/2" hole from 2073' to 2079' 8" W/Servco Hole Opener. Cut Window in 7" Casing from 1675' to 1685' W/Servco Section Mill. Run 4 1/2" Tubing to 2289' & Cemented. 24' of Casing Cuttings left in hole from 2450' to 2426'. The 10", 8" & 7" Casings remain the same as was installed on W.O.1253-L-606-4.

Attach additional sheets and forward to Production Dept. Pittsburgh General Office
 Verified by: Andrew T. Rebschow, DIVISION ENGINEER
 Approved by: [Signature], DIVISION SUPERINTENDENT

05/07/2021

WELL LOG SUMMARY

DIV. 4	FIELD Cameron	FARM Cay B. Mathews	COUNTY Marshall	WELL NO. 4705100264P
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ORIGIN OF FORMATION DEPTHS Driller's Log Service Company Log Combination

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS (Water, Gas, Oil encountered-Open Flows-Rock Pressure-etc.)
Pittsburgh Coal	1118	1125	7	
Murphy Sand	1235	1255	20	
Big Dunkard	1605	1627	22	
1st Salt Sand	1764	1825	61	
2nd Salt Sand	1935	1960	25	
Maxton Sand	2141	2165	24	
Big INJUN Line	2265	2290	25	
Big Injun	2295	2530	235	
Total Depth		2426		
1 1/2" Tubing set @ 2291'				
				Note: Well was leaking gas from deeper sands. Palled 2539' of 1 1/2" Tubing.
				Cemented back from 2510 to 2450 w/2" Tubing. Cut window in 7" Casing from 2073' to 2090' w/Service Section MILL and Underream a 11 1/2" Hole from 2073' to 2079' w/Service Hole Opener. Cut Window in 7" Casing from 1675' to 1685' w/Service Section MILL. Run 1 1/2" Tubing to 2289' & Cemented w/300 Bg. Cement, 11.57 per gal., good return of cement at surface. 1 1/2" Tubing set on a Formation Factor Shoe set at 2291'. 2 1/2" of Casing Cuttings left in hole from 2450 to 2426'

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Original mailed to
Field Office 12-7-54

4705100264P

Division 4
 Record of well No. 1852 on G.S. Mathews Farm Acres
Cameron Field **Liberty** Township **Marshall** County **West Va.** State
 Rig Commenced 19 Completed 19
 Drilling Commenced December 24, 1953 Completed October 10, 1954
 Contractor A.G. Isminger Address Cameron, West Virginia
 Driller's Name A.G. Isminger, Edison Isminger, Homer, Antil.

CASING AND TUBING RECORD

	Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"	
Used in Dels.								5 12.6'		
Left in well			256'	1535	2283'			2539'		

PACKER RECORD Casing Measured with threads on. SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		
4 x 7"	2224	Anchor	10.26.54			2141	2165	29,326	29,326

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour P. P.	Max. R. P.	Hours
						1	5	10	30	60			
10/26/54	14/10	Water	1"	29,326	Big Injun	0	5 1/2		100	380	500	432	
					Maxton					294		288.	

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Pittsburgh Coal	1100	1107	7	In cleaning out open hole was found from
Little Dunkard Sand	1150	1165	15	2530 to 2930' 1.6" Lead Plug set at 2930
Maxton Sand	2141	2193	52	filled with cement and stone to the depth of
Big Injun Sand	2295	2530	335	2543' Second lead 6" Plug set at 2543'
7' total Depth for Storage	2528			15' of Cement dumped on top of Plug. Making the total Storage depth to 2528'
				158 Sacks Cement was used cementing the 10 3/4" casing. Good return to surface.
				400 Sacks Cement used between the 10 3/4" casing and 8 5/8" No Return. 8 5/8" casing was perforated at 1214' and 400 more Sacks cement used between the 10 3/4" and 8 5/8" water in the cement returned to surface but no cement, balance was filled from top of casing to surface.
Waynesburg Coal.	750	754		
Mapletown Coal	1000	1007		
Pittsburgh Coal.	1100	1108		
				2140 Sacks Cement used between the 8 5/8" and 7" casing, good return to surface.
				Packer Record.
				1. 4 x 7" Anchor Packer set at 2224'
				anchor under packer 304'
				First Perforated joint at 2528' Second Perforated Joint at 2299'
				7" casing was shot by Schulmberger with 96 shots. top of shot 2141. Bottom 2165' in the Maxton Sand. Open flow was not increased after shooting, but some gas came in later with a rock pressure of 294' in 288 Hours from Maxton Sand.

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Examined above information and measurements and found to be correct by

Examined and Approved by

Contractor

[Signature]

Field Superintendent

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

05/07/2021

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

4705100264P

Cameron

WELL RECORD

Permit No. MARS -264

Oil or Gas Well Storage
(KRS)

Company THE MANUFACTURERS LIGHT AND HEAT COMPANY
Address 800 Union Trust Bldg., Pgh., Penna.
Farm Gay Matthews Acres 60
Location (waters) _____
Well No. 1852 Elev. 1479'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced December 24, 1953
Drilling completed October 10, 1954
Date Shot 10-26-54 From _____ To _____
With _____
Open Flow 14/10ths Water in _____ 1" Inch
_____/10ths Merc. in _____ Inch
Volume 29,326 Cu. Ft.
Rock Pressure 500 lbs. 430 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			Anchor
10	<u>154</u>	<u>256'</u>	Size of <u>4 x 7</u>
8 1/4	<u>152#</u>	<u>1535'</u>	
7	<u>226#</u>	<u>2283'</u>	Depth set <u>2224'</u>
6 1/2 4		<u>2539'</u>	
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 750 FEET _____ INCHES
1100 FEET _____ INCHES 1000 FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal			1100	1107		open	
Little Dunkard Sand			1450	1465			In cleaning out/hole was found from
Maxton Sand			2141	2193			2530 to 2930' 1.6" Lead Plug set at 2930
Big Injun Sand			2295	2530			filled with cement and stone to the dept
Total Depth for storage			2528				of 2543' Second lead 6" Plug set at 2543
							15' of Cement dumped on top of Plug making
							the total storage depth to 2528'
							158 sacks cement was used cementing the
Waynesburg Coal			750	754			10 3/4 casing, Good return to surface.
Mapletown Coal			1000	1007			400 Sacks cement used between the 10-3/4
Pittsburgh Coal			1100	1108			casing and 8-5/8" No Return. 8 5/8" casing
							was perforated at 1214' and 400 more sack
							cement used between 10 3/4 and 8 5/8" was
							in the cement returned to surface but no
							cement, balance was filled from top of
							casing to surface.
							240 sacks cement used between the 8 5/8" and 7" casing. good
							return to surface.
							Packer Record:
							1. 4 x 7 Anchor Packer set at 2224'
							Anchor under packer _____ 304'
							First Perforated joint at 2528' Second Perforated Joint at
							2259'
							7" casing was shot by Schulmberger with 96 shots. Top of sh
							2141, Bottom 2165' in the Maxton Sand
							Open flow was not increased after shooting, some gas came in
							later with a rock pressure of 294# in 288 Hours from Maxton
							Sand

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Division 4

Record of well No. 1852 on Gay B. Mathews Farm Acres

<u>Cameron</u>	Field	<u>Liberty</u>	<u>Waynesburg</u> District	<u>Marshall</u>	County	<u>W. Va.</u>	State
Rig Commenced	<u>May 6,</u>	<u>19 15,</u>	Completed	<u>May 18,</u>	<u>19 53</u>		
Drilling Commenced	<u>May 21,</u>	<u>19 15,</u>	Completed	<u>Sept 1,</u>	<u>19 53</u>		
Contractor	<u>Braden & Fletcher</u>		Address				
Driller's Name	<u>S. E. Stone Braker</u>	<u>Grant Richards,</u>					

CASING AND TUBING RECORD

	Conductor	12"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"	
Used in Drig.										
Left in well										

PACKER RECORD

SHOOTING RECORD

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

VOLUME AND PRESSURE

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

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Conductor	14			
10" Casing	252			
Waynesburgh Coal	750	754		
Mapletown Coal	1000	1007		
Pittsburgh Coal	1100	1108		
Little Dunkard Sand	1450	1465		
8" Casing	1515			
Big Dunkard Sand	1620	1695		
Coal	1705	1780		
Sand	1768	1825		Little Gas and Water
Salt Sand @ 1800'	1900	1915		
Sand	1925	1950		
Sand	2010	2050		
Sand	2060	2140		
Maxim Sand	2145	2210		
6-5/8" Casing	2295			
Big Lime	2265	2287		
Big Injun Sand	2287	2530		
Saww Sand	2538	2550		
Thirty Foot	2906	2950		
Fifty Foot	3112	3140		
Gordon Stray	3155	3166		
Gordon Sand	3180	3208		
Fourth Sand	3244	3254		
Fifth Sand	3300	3306		
Total Depth	3681			

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Office of Oil and Gas

JAN 21 2021

WV Department of
Environmental Protection

Cont.

Examined above information and measurements and found to be correct by

Examined and Approved by

Contractor

Field Superintendent

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

05/07/2021

Division A

Record of well No. 1852 on Gay B. Mathews Farm Acres

Field Township District County State

Rig Commenced 19 Completed 19

Drilling Commenced 19 Completed 19

Contractor Address

Driller's Name

CASING AND TUBING RECORD

Conductor	12"	10"	8 1/4"	7"	6 5/8"	5 3/8"	4"	3"
Used in Drilg.								
Left in well								

PACKER RECORD

SHOOTING RECORD

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

VOLUME AND PRESSURE

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

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
All casing pulled but 550' of 6-5/8" casing which was left in well				
Sept. 14. Well plugged in big lagoon sand with 3- 6-5/8" dry hole plugs at 2315'				
Witness: Walter Wright & Frank Nemo.				
November 10. Well Plugged in 8" with 8" dry hole plug in Big Dunkard sand at 1640'				
Nov. 11. Plugged in 10" hole with 10" dry hole plug at 1972				
Witness: Nath Dunham E. L. Reid, Sam Craig, Em. Slonaker Harvey Riser, John Wasson.				
MATERIAL LEFT IN HOLE ON ACCOUNT OF FISHING FOR 6-5/8" CASING from Braden & Fletcher				
2 - 4-3/8 X 1/2" STEMS				
2 SET DRILLING JARS				
1 " LONG STROKE JARS				
1 - 7/8" WIRE LINE ROPE SOCKET				
FROM J. J. Larrin				
1 - 6 1/2" TRIP SPEAR				
1 - 6-5/8" HANDRILL				
1 - 6-5/8" CONE. SOCKET				
1 - MILL				
FROM COMPANY TOOLS				
1 - SUB 3-3/4 X 5"				
1 - SET LONG STROKE JARS				
1 - 3-1/4 X 1 1/2" STEM				
1 - 7/8" WIRE LINE ROPE SOCKET				

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WV Department of Environmental Protection

Examined above information and measurements and found to be correct by

Examined and Approved by

Contractor

Field Superintendent

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

05/07/2021

4705100264P

The Wheeling & Lake Erie COMPANY

Final Report of Material charged to and used in Drilling and Equipping

Well No. 1852

Cameron District Nov 13 1915

We have this day finished work on Well No. 1852 on the 1/2 acre farm

of G. J. Mathews situate in Liberty District,

Marshall County, State of W. Va.

as shown by sketch on other side, and have left in and at said well the following material, which has been charged to said well on District Transfers.

- | | |
|-------------------------------------|-------------------------------------|
| <u>550 ft 6 7/8 casing</u> | <u>2 7/8 wire line rope sockets</u> |
| <u>3-6 7/8" Wood Dry Hole Plugs</u> | <u>1-Sub 3 1/4 x 3</u> |
| <u>1-8" " " " "</u> | <u>1-6 3/4" Trip spear</u> |
| <u>1-10" " " " "</u> | <u>1-6 7/8 Mandrill</u> |
| <u>2-4 3/4 x 46' stems</u> | <u>1-6 7/8 Camp socket</u> |
| <u>2-50' Drilling Tars</u> | <u>1- Mill</u> |
| <u>1-3 1/2" Long Stroke</u> | |
| <u>1-3 1/4 x 44' stem</u> | |

List above ONLY material left in and at the well which is being used in the operation of said well, including Casing, Tubing, Wire Lines, Rods, Pumping Outfits, Packers, Tanks, Boilers, Engines, Casing heads, and all well connections. but not including Drips or Branch Lines.

Depth of Well 3681 Feet. Well produces Nothing from all Sand,

Signed: _____ Signed: _____
Foreman. Dist. Supt.

Checked by _____
Field Clerk.

Checked by _____
Inventory Clerk.

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WV Department of
Environmental Protection

05/07/2021

470510-0264P

WELL RECORD

Wheeling Nat Gas Co.

WELL No. *1852*

FARM *Gay J. Mathews*

DISTRICT *Liberty*

COUNTY *Marshall*

STATE *W. Va*

OWNED BY *Wheeling Nat Gas Co*

DIVISION *Cameron*

DATE *191*

ENTERED W. R. BOOK FOLIO *101*

BY *J. C. Taylor*

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WV Department of
Environmental Protection

The Wheeling National Gas Company

4705100264P
1852

Division *Canaan* 245 Fourth Ave., Pittsburgh, Penns.
Record of Well No. *1* on *Liberty* Farm *60* Acres
Canaan Field *Liberty* District *Marshall* County *W Va* State
Rig Commenced *May 6* 1915, Completed *May 18* 1915
Drilling Commenced *May 6* 1915, Completed *Sept 1* 1915
Cost per foot *1.10* Contractor *Aden & Alder* Address *Canaan W Va*
Drillers' Names *Sec. Stankovic, Grant Probert, Carl Probert, ...*

BOILER			ENGINE			RIG			
H. P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Builder
								<i>82'</i>	<i>H.N. Yost</i>

CONDUCTOR AND CASING USED IN DRILLING									
Conductor	13 inch	10 inch	8 1/2 inch	8 inch	6 1/2 inch	5 1/2 inch	5 3/16 inch	5 inch	4 inch
<i>17</i>		<i>252</i>	<i>1575</i>	<i>2295</i>					

CONDUCTOR AND CASING LEFT IN WELL									
Conductor	13 inch	10 inch	8 1/2 inch	8 inch	6 1/2 inch	5 1/2 inch	5 3/16 inch	5 inch	4 inch
				<i>530</i>					

OIL WELL			GAS WELL								
When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute's Pressure	Rock Pressure	
FORMATION	Top	Bottom	Thickness	REMARKS							
<i>Wanneshing Coal</i>	<i>750</i>	<i>732</i>	<i>18</i>	<i># Little gas and water 1800ft</i>							
<i>W. tan Coal</i>	<i>1000</i>	<i>1007</i>	<i>7</i>	<i>7 Little gas at 2160</i>							
<i>Pittsburgh Coal</i>	<i>1100</i>	<i>1108</i>	<i>8</i>	<i>8 " " " 2372</i>							
<i>Little Dunhard</i>	<i>1450</i>	<i>1465</i>	<i>15</i>	<i>5 Sept 14-1915 Well Plugged in 6 7/8</i>							
<i>Big Dunhard</i>	<i>1623</i>	<i>1653</i>	<i>30</i>	<i>30 Hole in Big Dunhard sand at 2315 ft</i>							
<i>Coal black</i>	<i>1705</i>	<i>1710</i>	<i>5</i>	<i>5 with 3 6 7/8 Dry Hole Plugs.</i>							
<i>Sand</i>	<i>1768</i>	<i>1825</i>	<i>57</i>	<i>57 Nov 10-1915 Plugged with 1-8" Hole</i>							
<i>Salt</i>	<i>1900</i>	<i>1915</i>	<i>15</i>	<i>15 in Big Dunhard sand at 1640 ft.</i>							
<i>Sand</i>	<i>1925</i>	<i>1950</i>	<i>25</i>	<i>25 Nov 11-1915. Plugged in 10" Hole</i>							
<i>Sand Whit Hard</i>	<i>2010</i>	<i>2050</i>	<i>40</i>	<i>40 with 1-10" Dry Hole at 1072 ft.</i>							
<i>Sand Gray Hard</i>	<i>2060</i>	<i>2180</i>	<i>80</i>	<i>80 witness, Nath Dunhard, R.L. Reid.</i>							
<i>Moxium Sand</i>	<i>2145</i>	<i>2210</i>	<i>65</i>	<i>65 Samuel Craig, Wm. Slonaker</i>							
<i>Big lime</i>	<i>2262</i>	<i>2287</i>	<i>25</i>	<i>25 Harvey Risor - John Wassum.</i>							
<i>Big Argum</i>	<i>2287</i>	<i>2520</i>	<i>243</i>	<i>243 Material lost in well and casing</i>							
<i>Snow Sand</i>	<i>2538</i>	<i>2550</i>	<i>12</i>	<i>12 From Braden & Fletcher</i>							
<i>Windy foot</i>	<i>2906</i>	<i>2950</i>	<i>44</i>	<i>44 2-4 3/8 x 46 ft stems.</i>							
<i>Soft foot</i>	<i>3112</i>	<i>3180</i>	<i>28</i>	<i>28 2-set drilling jars</i>							
<i>Garden Sharp</i>	<i>3155</i>	<i>3166</i>	<i>11</i>	<i>11 1- " long stroke jars</i>							
<i>Garden Sand</i>	<i>3180</i>	<i>3208</i>	<i>28</i>	<i>28 1- 7/8" wireline Rope socket</i>							
<i>Fourth Sand</i>	<i>3248</i>	<i>3258</i>	<i>20</i>	<i>20 From J.S. Darin</i>							
<i>Fifth Sand</i>	<i>3300</i>	<i>3306</i>	<i>6</i>	<i>6 1- 6 1/2" Trip spear</i>							
				<i>1- 6 3/8" Mondril.</i>							
				<i>1- 6 7/8" Comp socket.</i>							
				<i>1- Mill.</i>							
				<i>From Company Tools.</i>							
				<i>1 sub 3 1/4 x 3"</i>							
				<i>1-set long stroke jars.</i>							
				<i>1- 3 1/4 x 44 ft stem</i>							
				<i>1- 7/8" wireline Rope socket.</i>							
<i>Total depth</i>	<i>3181</i>										

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JAN 21 2021
WV Department of
Environmental Protection

Examined above information and measurements and found to be correct by
Aden & Alder Contractor
Examined and approved by *M. Wassum* Superintendent of Co.
NOTE - The above blank must be filled out carefully by the Contractor, with a complete and accurate record of the Well, and accompanying when presented for payment the bill for drilling.
All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.
Make no memoranda of boiler and engine if owned by contractor.

05/07/2021

4705100264P
1852

Company _____

Division _____

Record of Well No. 1852 on Ray B. Hill Farm _____ Acres _____

Field _____ District Township _____ County _____ State _____

Rig Commenced _____ 19 _____ Completed _____ 19 _____

Drilling Commenced _____ 19 _____ Completed _____ 19 _____

Contractor _____ Address _____

Driller Name _____

CASING AND TUBING RECORD

Conductor	18"	10"	8 1/4"	7"	6 3/4"	5 1/2"	4"	3"	
Used in Drig.									
Left in Well									

PACKER RECORD

SHOOTING RECORD

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

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hr. R. P.	Max. R. P.	Hou	
						1	5	10	20	60				

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS			
Clay yellow soft	0	14	14	Sp. black grey soft	1160	1170	10
Sand white fine	14	24	10	Lime shell hard	1170	1200	30
Slate dark soft	24	124	100	grey hard	1200	1220	20
Reddish grey soft	124	150	26	white hard	1220	1240	20
Sand white fine	150	185	35	dark soft	1240	1300	60
Reddish grey soft	185	215	30	dark hard	1300	1325	25
Slate dark soft	215	371	156	Reddish grey soft	1325	1340	15
Reddish grey soft	371	450	79	Slate grey soft	1340	1355	15
Slate dark soft	450	570	120	dark grey soft	1355	1370	15
Sand brown hard	570	571	1	dark grey hard	1370	1400	30
Slate white fine	571	574	3	dark grey soft	1400	1450	50
Lime shell hard	574	630	56	dark hard	1450	1465	15
Slate dark soft	630	715	85	dark grey soft	1465	1480	15
Sand white fine	715	750	35	dark soft	1480	1515	35
Grey shale dark soft	750	754	4	Lime shell hard	1515	1545	30
Slate white fine	754	754	0	Slate black soft	1545	1620	75
Slate dark soft	754	810	56	Slate dark medium	1620	1705	85
Sand white hard	810	870	60	dark hard	1705	1748	43
Slate dark soft	870	910	40	" "	1748	1820	72
Lime shell hard	910	920	10	Slate " soft	1820	1840	20
Slate white soft	920	920	0	" "	1840	1920	80
Lime shell hard	920	1000	80	Slate " soft	1920	2010	90
Sand white fine	1000	1050	50	Slate dark soft	2010	2250	240
Slate dark soft	1050	1100	50	" "	2250	2260	10
Slate " soft	1100	1120	20	Slate " "	2260	2264	4
Lime shell " hard	1120	1120	0	dark grey hard shells black	2264	2262	2
Slate dark soft	1120	1120	0	dark grey soft	2262	2508	246
Lime shell dark hard	1120	1120	0	grey sand light hard	2508	2550	42

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Office of Oil and Gas
JAN 21 2021
WV Department of Environmental Protection

Examined above information and measurements and found to be correct by _____

Examined and Approved by _____

Contractor _____ Field Superintendent _____

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

05/07/2021

WV Department of Environmental Protection

Division _____ Company _____
 Record of Well No. 1852 on Gay Matthews Farm _____ Acres _____
 Field _____ District Township _____ County _____ State _____
 Rig Commenced _____ 10 _____ Completed _____ 10
 Drilling Commenced _____ 19 _____ Completed _____ 19
 Contractor _____ Address _____
 Driller' Name _____

CASING AND TUBING RECORD

Conductor	18"	10"	8 1/2"	7"	6 1/2"	5 3/8"	4"	3"	
Used in Drig.									
Left in Well									

PACKER RECORD

SHOOTING RECORD

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

VOLUME AND PRESSURE

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

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION		TOP	BOTTOM	THICKNESS	REMARKS
slate & limestone	rock	255'	270'	35'	
slate	rock	270'	275'	3'	
red sandstone	rock	275'	300'	170'	
slate	rock	300'	312'	32'	
white argill	hard	312'	313'	10'	
slate & shell	hard	313'	314'	1'	
slate	rock	314'	324'	32'	
slate	rock	324'	330'	7'	

RECEIVED
 Office of Oil and Gas
 JAN 21 2021
 WV Department of Environmental Protection

Examined above information and measurements and found to be correct by _____

Examined and Approved by _____

Contractor

Field Superintendent

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05/07/2021

1) Date: 1/6/2021
2) Operator's Well Number
Victory B 1852

3) API Well No.: 47 - 051 - 002640000

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 <u>Big Run Christian Church (Disciples of Christ) and Cemetery</u>	Name <u>Murray Energy Corporation, American Consolidated Natural Resources, Inc.</u>
Address <u>2229 Reid Ridge Road</u>	Address <u>46226 National Road</u>
<u>Cameron, WV 26033</u>	<u>St. Clairsville, OH 43950</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Murray Energy Corporation, American Consolidated Natural Resources, Inc.</u>
(c) Name _____	Address <u>46226 National Road</u>
Address _____	<u>St. Clairsville, OH 43950</u>
6) Inspector <u>James Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 44</u>	Name <u>Not leased.</u>
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>304-552-3874</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Columbia Gas Transmission, LLC
 By: Brad Nelson
 Its: Storage Engineer
 Address 455 Racetrack Road
Washington, PA 15301
 Telephone 724-250-0610

Commonwealth of Pennsylvania - Notary Seal
 Elaine Rybicki, Notary Public
 Allegheny County
 My commission expires May 11, 2022
 Commission number 1332803

Commonwealth of Pennsylvania
 County of Allegheny
 RECEIVED
 Office of Oil and Gas

Subscribed and sworn before me this 6 day of January 2021
Elaine Rybicki Notary Public
 My Commission Expires 5/11/2022

Oil and Gas Privacy Notice

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

05/07/2021

4705100264P

7018 3090 0001 7217 9780

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Cameron, WV 26033

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- Return Receipt (hardcopy) \$ 0.00
- Return Receipt (electronic) \$ 0.00
- Certified Mail Restricted Delivery \$ 0.00
- Adult Signature Required \$ 0.00
- Adult Signature Restricted Delivery \$ 0.00

Postage \$2.00

\$

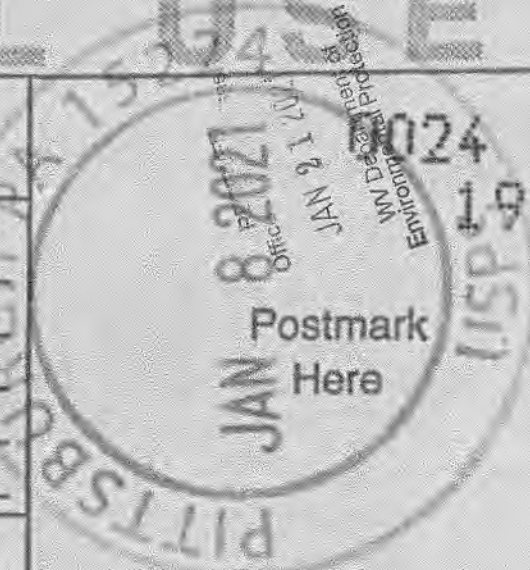
Total Postage and Fees \$3.40

\$

Sent To Big Run Christian Church and Cemetery

Street and Apt. No., or PO Box No.
2229 Reid Ridge Road

City, State, ZIP+4®
Cameron, WV 26033



01/08/2021

4705100264P



1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

January 8, 2021

* Big Run Christian Church (Disciples of Christ) and Cemetery
2229 Reid Ridge Road
Cameron, WV 26033



Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Victory B 1852 (API 47–051–00264).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

If you have questions, feel free to call.

Regards,

A handwritten signature in cursive script that reads "Brad Nelson".

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

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Office of Oil and Gas

JAN 21 2021

WV Department of
Environmental Protection

05/07/2021

4705100264P

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Big Run Christian Church and Convent
 2229 Reid Ridge Road
 Cameron, WV 26033



9590 9402 4965 9063 0555 63

Article Number (Transfer from service label)

7018 3090 0001 7217 9780

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

RECEIVED
 Office of Oil and
 Environmental
 Regulation
 JAN 21 2012
 WV Department of
 Environmental Protection

- Agent
- Addressee

B. Received by (Printed Name)

Debbie Elson

C. Date of Delivery

1-12-21

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (0)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

4705100264P

7018 3090 0001 7217 9773

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Domestic Mail Only

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JAN 8 2021
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For delivery information, visit our website at www.usps.com®.

Saint Clairsville, OH 43950

OFFICIAL USE

Certified Mail Fee \$3.55

\$

Extra Services & Fees (check box, add fee as appropriate)

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- Return Receipt (electronic) \$ 0.00
- Certified Mail Restricted Delivery \$ 0.00
- Adult Signature Required \$ 0.00
- Adult Signature Restricted Delivery \$ 0.00

Postage \$2.60

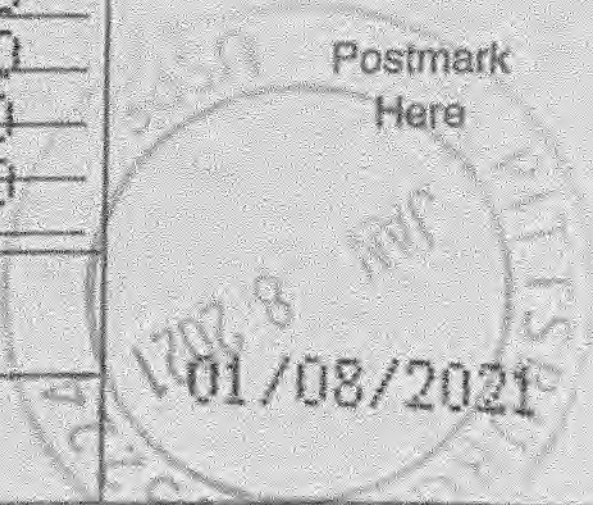
\$

Total Postage and Fees \$9.00

\$

0024
19

Postmark
Here



Sent To

Murray Energy Corporation (American Coal. Natural Res.)

Street and Apt. No., or PO Box No.

46226 National Road

City, State, ZIP+4®

St Clairsville, OH 43950

4705100264P



1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

January 8, 2021



Murray Energy Corporation
American Consolidated Natural Resources, Inc.
Attn: Mason Smith
46226 National Road
St. Clairsville, OH 43950

Columbia Gas Transmission, an underground natural gas storage operator, is planning to permanently plug and abandon a storage well (API # 47-051-00264-00-00) in Marshall County, WV. Records indicate that Murray Energy (American Consolidated Natural Resources, Inc.) owns the coal on subject property.

To comply with WV DEP Code, Columbia is required to provide the coal owner the following documents as notification and for processing.

- WV DEP form WW-4A (Notice of Application to Plug and Abandon a Well)
- WV DEP form WW-4B (Application for a Permit to Plug and Abandon)
- Copy of survey plat
- Proposed method of plugging
- Wellbore diagram (prior to plugging)
- Wellbore diagram (proposed plugging)

If you have questions, feel free to call.

Regards,

Brad Nelson

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

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Office of Oil and Gas
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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Murray Energy Corporation
 American Consolidated Natural Resources
 Attn: Nelson Smith
 46226 National Road
 St. Clairsville, OH 43950



9590 9402 4965 9063 0555 56

2 Article Number (Transfer from service label)

7018 3090 0001 7217 9773

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Rick Hess

Agent

Addressee

B. Received by (Printed Name)

Rick Hess

C. Date of Delivery

D. Is delivery address different from item 1?
If YES, enter delivery address below:

Yes

No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Ben Run - A Tributary of Fish Creek Quadrangle Cameron, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fresh water, cement returns, bentonite gel, NaCl salt

Will a synthetic liner be used in the pit? Yes No If so, what ml? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-119-28776, 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Subsoils

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

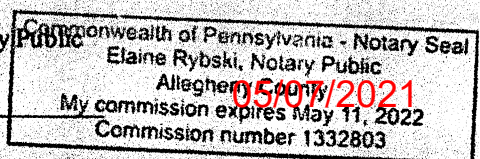
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Brad Nelson Commonwealth of Pennsylvania
Company Official (Typed Name) Brad Nelson County of Allegheny
Company Official Title Storage Engineer

Subscribed and sworn before me this 6 day of January, 2021

Elaine Rybski Elaine Rybski Notary Public

My commission expires 5/11/2022



Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Rye	40	Orchard Grass and/or Tall Fescue	29
		Birdsfoot trefoil (empire)	9
		Annual Rye	12

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Barry Stollings

Comments: _____

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Title: Inspector

Date: 1-12-21

Field Reviewed? () Yes (X) No

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

Operator Name: Columbia Gas Transmission, LLC
Watershed (HUC 10): Ben Run - A Tributary of Fish Creek Quad: Cameron, WV
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants will be stored on site, but located within secondary containment.

Accidental release from well fluids and spills from construction equipment are the only sources of contaminate to groundwater.

All accumulated fluids to be hauled off site to UIC disposal facility.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction equipment will be inspected daily for leaks. Spill kits will be on site.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

The closest water body is Ben Run, approximately 0.25 miles to the SW.
The nearest Wellhead Protection area is 8.04 mi. to the SE - (PWSID 3305202 Hundred Littleton PSD).

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

05/07/2021

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings groundwater protection will be a topic of discussion.

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8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction equipment will be inspected daily for leaks or spill.

Signature: Bond Nade

Date: 1/19/21

MAY 3 2021




WV Department of
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WV DEP Reclamation Site Overview / Detail

Victory B 1852 (API 051-00264)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards.
- Existing drainage, culverts, and road ditches to be maintained.
- Minor grading and surface material to be applied as needed.

Legend

-  VB 1852 Access Road
-  VB 1852 LOD
-  Victory B - 01852

Pit A
50' x 10' x 4' deep.

Pit B
50' x 10' x 4' deep.

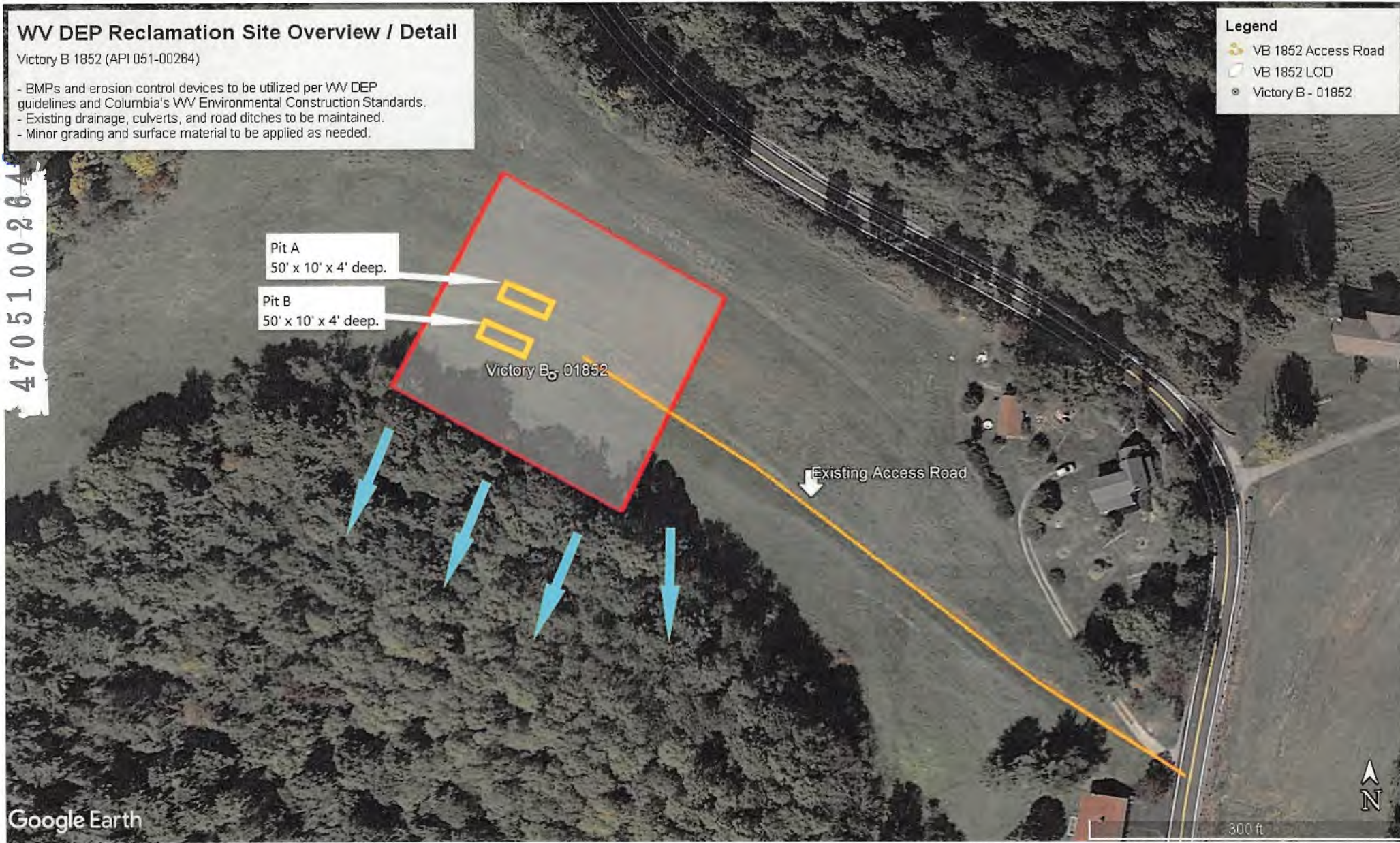
Victory B 01852

Existing Access Road

4705100264

Google Earth

300 ft

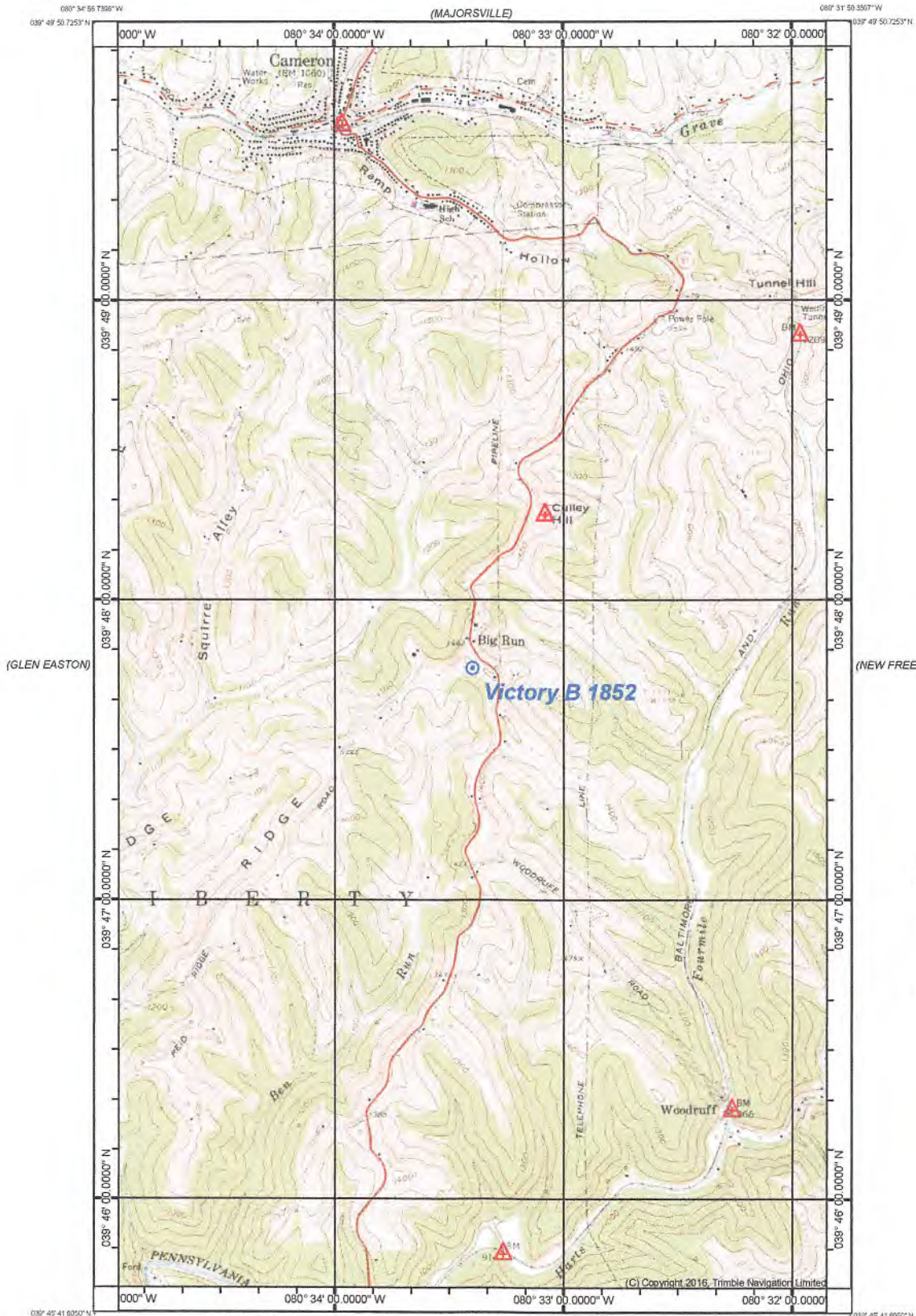


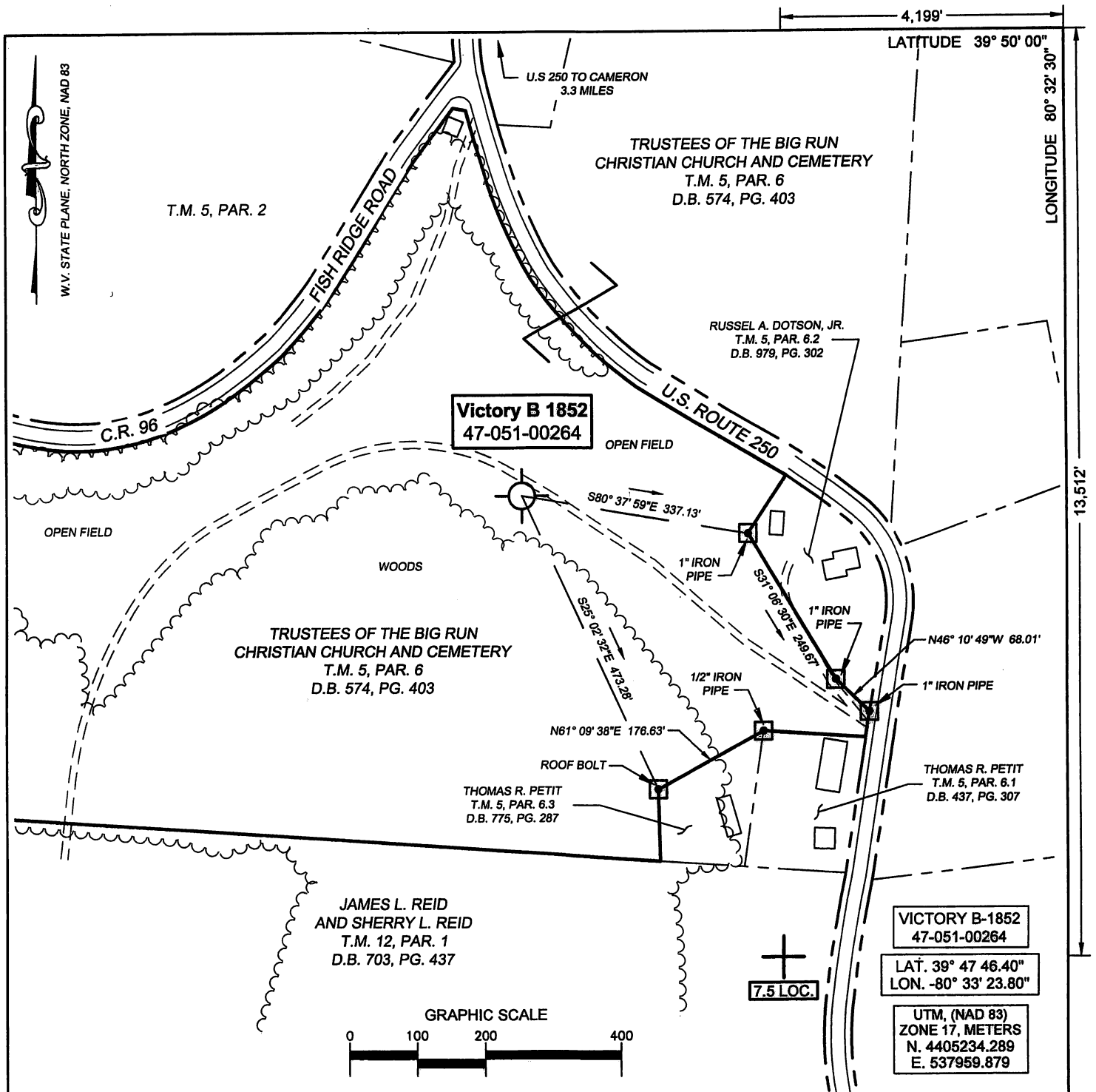
(MOUNDSVILLE)



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CAMERON QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(WIND RIDGE)



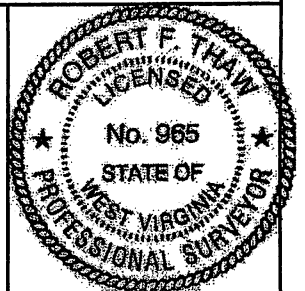


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 2001-3079-001-020
 DRAWING No. VICTORY B-1852
 SCALE 1"=200
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE R10
GPS UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) R. Thaw
ROBERT F. THAW PS #965



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV

DATE DECEMBER 10 2020
 OPERATOR'S WELL No. 1852
 API WELL No. 47 051 - 00264

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1472.3' WATER SHED BEN RUN - A TRIBUTARY OF FISH CREEK
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE CAMERON, WV

SURFACE OWNER TRUSTEES OF THE THE BIG RUN CHRISTIAN CHURCH AND CEMETERY ACREAGE 47.75 ±
 OIL & GAS ROYALTY OWNER MAYES D. MATHEWS, ET AL

LEASE ACREAGE 53 ± LEASE NO. 3027243-000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION BIG INJUN ESTIMATED DEPTH 3681

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS 48 COLUMBIA GAS ROAD
25325-1273 SANDYVILLE, WV 25275

05/07/2021

51-00264 P
4705100264



1700 MacCorkle Ave SE
P.O. Box 1273
Charleston, WV 25325

January 19, 2021

WV DEP – Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

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Enclosed is a plugging permit application for the following Columbia Gas Transmission existing storage well:

Victory B 1852 (API 051-00264)

Please return permit to:

Columbia Gas Transmission, LLC
455 Racetrack Road
Washington, PA 15301
Attn: Brad Nelson

If you have questions, feel free to call.

Regards,

Brad Nelson

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

CHK# 052468
Amt \$100
Date 1/14/21

05/07/2021