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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, May 4, 2023  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC.  
46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for M-1605  
47-051-00746-00-00

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: M-1605  
Farm Name: RUTH E. BROWN  
U.S. WELL NUMBER: 47-051-00746-00-00  
Vertical Plugging  
Date Issued: 5/4/2023

## 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

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1. 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.
2. Well work activities shall not constitute a hazard to the safety of persons.
3. 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.

WW-4B  
Rev. 2/01

1) Date APRIL 14, 20 23  
2) Operator's Well No. M-1605  
3) API Well No. 47-051-00746

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 \_\_\_) Deep \_\_\_ / Shallow \_\_\_

5) Location: Elevation 1478.66' Watershed FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK  
District LIBERTY County MARSHALL Quadrangle CAMERON WW,PA

6) Well Operator WEST VIRGINIA LAND RESOURCES INC 7) Designated Agent DAVID RODDY  
Address 1 BRIDGE STREET Address 1 BRIDGE STREET  
MONONGAH, WV 26554 MONONGAH, WV 26554

8) Oil and Gas Inspector to be notified Name STRADER GOWER  
Address 2525W ALEXANDER RD.  
VALLEY GROVE, WV 26060  
9) Plugging Contractor Name \_\_\_\_\_  
Address \_\_\_\_\_

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

See Exhibit No. 1  
Pittsburgh Coal @ 1070-1076

⊕  
MSHA 101 C EXEMPTION  
FOR  
MARSHALL COUNTY COM

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APR 27 2023  
WV Department of  
Environmental Protection

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

Work order approved by inspector Strader Gower Date 4/21/2023

**EXHIBIT No.1**

From the experience and technology developed since 1970 in plugging oil and gas wells for the mining through, West Virginia Land Resources will utilize the following method to plug all future wells.

SOLID PLUG METHOD

Well Clean Out

WELL NOT ABANDONED



(a) If active well: Clean out to the total depth and plug back according to the state regulations to a minimum of 200 feet below the lowest minable coal seam.

~~(b) If abandoned well:~~ Clean out to the first plug 200 feet below the lowest minable coal seam.

Cement

(a) Circulate through the tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below the minable coal seam to a point 100 feet above the minable coal seam.

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

A monument will be installed with API number and stating "solid plug."

Marshall County 101C

Docket No. M-2016-016-C

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101C MSHA Petition Summary  
 Marshall County Coal  
 Ohio County Coal

**I. Definitions**

- A. Diligent Effort is defined as pulling 150% casing weight and making at least 3 attempts. Assume casing is 3,000' when length is unknown.

**II. Active Well**

- A. Check for Methane  
 B. Notify MSHA we are plugging an active well  
 C. Kill Well  
 D. Pull Sucker Rods and tubing  
 E. Make Diligent Effort to Pull Casing  
 F. If casing cannot be pulled...  
     i. Run Bond Log  
         1. Discuss Action Plan with Mine Personal  
     ii. Notify MSHA that casing cannot be pulled  
     iii. Cut, rip, or perforate every 200'. First cut will be 200' above the end of casing up to 200' below Pittsburgh coal  
         1. MSHA can waive 200' cuts if bond log shows adequate material behind casing.  
     iv. Cut, Rip, or Perforate every 50' from 200' below Pittsburgh to 100' above Pittsburgh (see Appendix A).  
     v. Cut, Rip, or Perforate every 5' from 10' below Pittsburgh Coal to 10' above Pittsburgh (see Appendix A).  
 G. Pump Class A Cement from TD to 200' below Pittsburgh  
 H. Pump Thixotropic Cement from 200' below Pittsburgh to 100' above  
 I. Pump Class A cement from 100' above Pittsburgh to surface.  
 J. Install Well Marker

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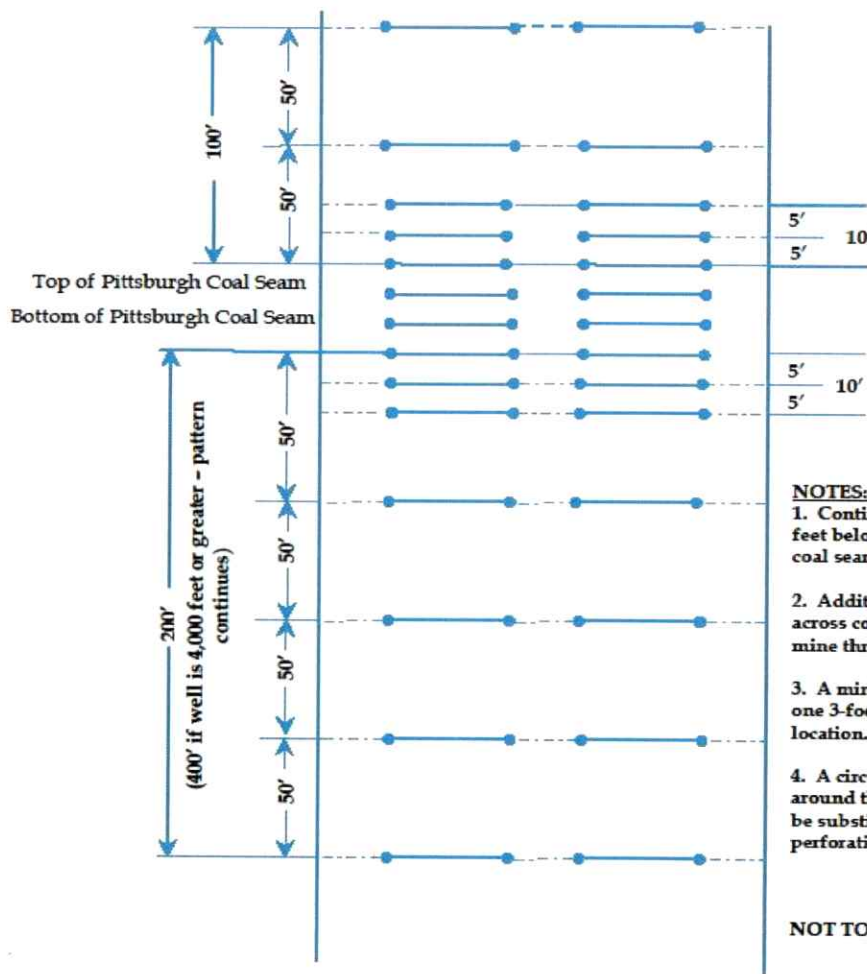
**III. Abandoned Well**

- A. Check for Methane  
     i. Notify MSHA if actively producing methane  
 B. Kill Well  
 C. If well is less than 4,000' deep, clean out well 220' below Pittsburgh (cleanout an extra 20' to allow for variance in coal elevation).  
 D. If well has casing, make diligent effort to pull casing as defined above.  
 E. If casing cannot be pulled...  
     i. Run Bond Log  
     ii. Notify MSHA that casing cannot be pulled  
     iii. Cut, Rip, or Perforate every 50' from 200' below Pittsburgh to 100' above Pittsburgh (see Appendix A).

05/05/2023

- iv. Cut, Rip, or Perforate every 5' from 10' below Pittsburgh Coal to 10' above Pittsburgh (see Appendix A).
- F. Pump expanding cement under 200 PSI to form a plug 200' below Pittsburgh
- G. Verify plug
- H. Pump Class A Cement from verified plug to 200' below Pittsburgh
- I. Pump Thixotropic Cement from 200' below Pittsburgh to 100' above
- J. Pump Class A cement from 100' above Pittsburgh to surface.
- K. Install well marker

Appendix A



- NOTES:**
1. Continuous rip from 10 feet below to 10 feet above coal seam or like sketch.
  2. Additional rips made across coal seam to facilitate mine through.
  3. A minimum of 4 shots or one 3-foot rip at each location.
  4. A circumferential cut around the entire casing may be substituted for the perforation or ripping.

NOT TO SCALE

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\*\*\*If the depth is greater than 4,000 feet, all 200' number change to 400' respectively



Select County: (051) Marshall **▼** Select datatypes:  (Check All)

Enter Permit #: 00746

Location  Production  Plugging  
 Owner/Completion  Stratigraphy  Sample  
 Pay/Show/Water  Logs  Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus"](#)

**Well: County = 51 Permit = 00746** [Link to all digital records for well](#)

Report Time: Monday, May 01, 2023 1:25:59 PM

WV Geological & Economic Survey:

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
51	70059	51	746

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705100746	Marshall	746	Liberty	Cameron	Cameron	39.817028	-80.539285	539431.3	4407550.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4705100746	6/26/1928	Original Loc	Completed	W A Dowler	2			Randall Lee Dowler	Cameron Heat & Light			
4705100746	6/-/1929	Drilled Deeper	Completed	W A Dowler	2				Cameron Heat & Light			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_
4705100746	6/26/1928	5/-/1928	1420	Topo Estimation	Cameron	Big Lime	Maxton	Development Well	Development Well	Gas	Cable Tool	Nat/Open H	2212		2212	0	675	0
4705100746	6/-/1929	-/-	1420	Topo Estimation	Cameron	Hampshire Grp	Fourth	Development Well	Development Well	Gas	Cable Tool	Nat/Open H	3288		1076	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4705100746	6/26/1928	Pay	Gas	Vertical	2115	1st Salt Sand	2167	1st Salt Sand	0	0			
4705100746	6/-/1929	Pay	Gas	Vertical	3027	Fifty-foot	3053	Fifty-foot	0	0			
4705100746	6/-/1929	Pay	Gas	Vertical	3158	Fourth	3161	Fourth	0	0			

Production Gas Information: (Volumes in Mcf) \* 2022 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100746	Cameron Gas Co.	1988	1,810	306	265	272	260	9	3	2	1	3	163	258	268
4705100746	Cameron Gas Co.	1989	1,966	333	296	285	243	216	136	0	0	0	5	70	382
4705100746	Cameron Gas Co.	1990	2,039	305	340	190	265	250	219	4	2	5	7	221	231
4705100746	Cameron Gas Co.	1991	1,895	309	297	249	230	219	25	2	2	2	112	209	239
4705100746	----- unknown -----	1992	1,567	289	278	194	165	150	62	3	2	6	6	210	202
4705100746	Cameron Oil and Gas Co.	1993	1,558	237	408	159	166	67	4	2	2	2	77	146	288
4705100746	Cameron Gas Co.	1994	1,923	183	183	131	175	113	22	161	167	210	165	188	225
4705100746	Cameron Gas Co.	1995	1,917	216	152	176	168	148	135	138	131	130	183	176	164
4705100746	Coleman, C. R.	1996	1,697	147	141	133	129	131	158	151	160	153	132	138	124
4705100746	Mountaineer Gas Services, Inc.	1997	301	0	0	0	0	0	0	0	0	0	0	147	154
4705100746	Mountaineer Gas Services, Inc.	1998	832	150	136	141	128	135	142	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	1999	1,604	0	147	130	146	162	178	162	198	173	119	92	77
4705100746	Mountaineer Gas Services, Inc.	2000	1,162	71	119	136	65	68	74	76	88	147	92	119	107
4705100746	Mountaineer Gas Services, Inc.	2001	1,329	134	115	118	102	131	115	137	31	49	129	142	126
4705100746	Mountaineer Gas Services, Inc.	2002	1,594	136	115	129	110	140	119	164	147	165	139	112	118
4705100746	Mountaineer Gas Services, Inc.	2003	1,116	97	108	120	102	111	89	74	96	102	0	102	115
4705100746	Mountaineer Gas Services, Inc.	2004	1,429	110	93	116	77	76	160	156	151	133	134	111	112
4705100746	Mountaineer Gas Services, Inc.	2005	1,363	106	93	129	102	105	20	140	152	135	184	85	112
4705100746	Mountaineer Gas Services, Inc.	2006	1,529	116	105	125	109	153	129	137	153	139	145	116	102
4705100746	Mountaineer Gas Services, Inc.	2007	736	109	98	102	85	56	1	0	0	3	0	147	135
4705100746	Mountaineer Gas Services, LLC	2008	840	12	139	113	122	112	82	0	0	0	48	111	101
4705100746	Mountaineer Gas Services, LLC	2009	1,084	142	25	77	51	26	113	122	121	101	111	103	92
4705100746	Mountaineer Gas Services, LLC	2010	1,253	94	99	92	113	115	74	103	134	104	125	122	78
4705100746	Leatherwood, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2014	456	38	38	38	38	38	38	38	38	38	38	38	38
4705100746	Leatherwood, Inc.	2015	1,104	92	92	92	92	92	92	92	92	92	92	92	92
4705100746	Consolidation Coal Co.	2016	1,272	106	106	106	106	106	106	106	106	106	106	106	106
4705100746	Consolidation Coal Co.	2017	1,092	91	91	91	91	91	91	91	91	91	91	91	91
4705100746	Leatherwood, Inc.	2018	720	60	60	60	60	60	60	60	60	60	60	60	60
4705100746	Consolidation Coal Co.	2018	60	5	5	5	5	5	5	5	5	5	5	5	5
4705100746	Consolidation Coal Co.	2019	60	5	5	5	5	5	5	5	5	5	5	5	5

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2022 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100746	Cameron Gas Co.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Cameron Gas Co.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Cameron Gas Co.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Cameron Gas Co.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	----- unknown -----	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Cameron Oil and Gas Co.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Cameron Gas Co.	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Cameron Gas Co.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Coleman, C. R.	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	1998	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, Inc.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, LLC	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, LLC	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Mountaineer Gas Services, LLC	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2022 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100746	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Leatherwood, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

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Production Water Information: (Volumes in Gallons) \* 2022 data for H6A wells only. Other wells are incomplete at this time.

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100746	Consolidation Coal Co.	2016	0												
4705100746	Leatherwood, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100746	Consolidation Coal Co.	2019	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

\* There is no Scanned/Paper Log data for this well

\* There is no Digitized Log data for this well

\* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well



47-051-00746P

Well M-1605

Legend

17 s 539514 4407613

4705100648P

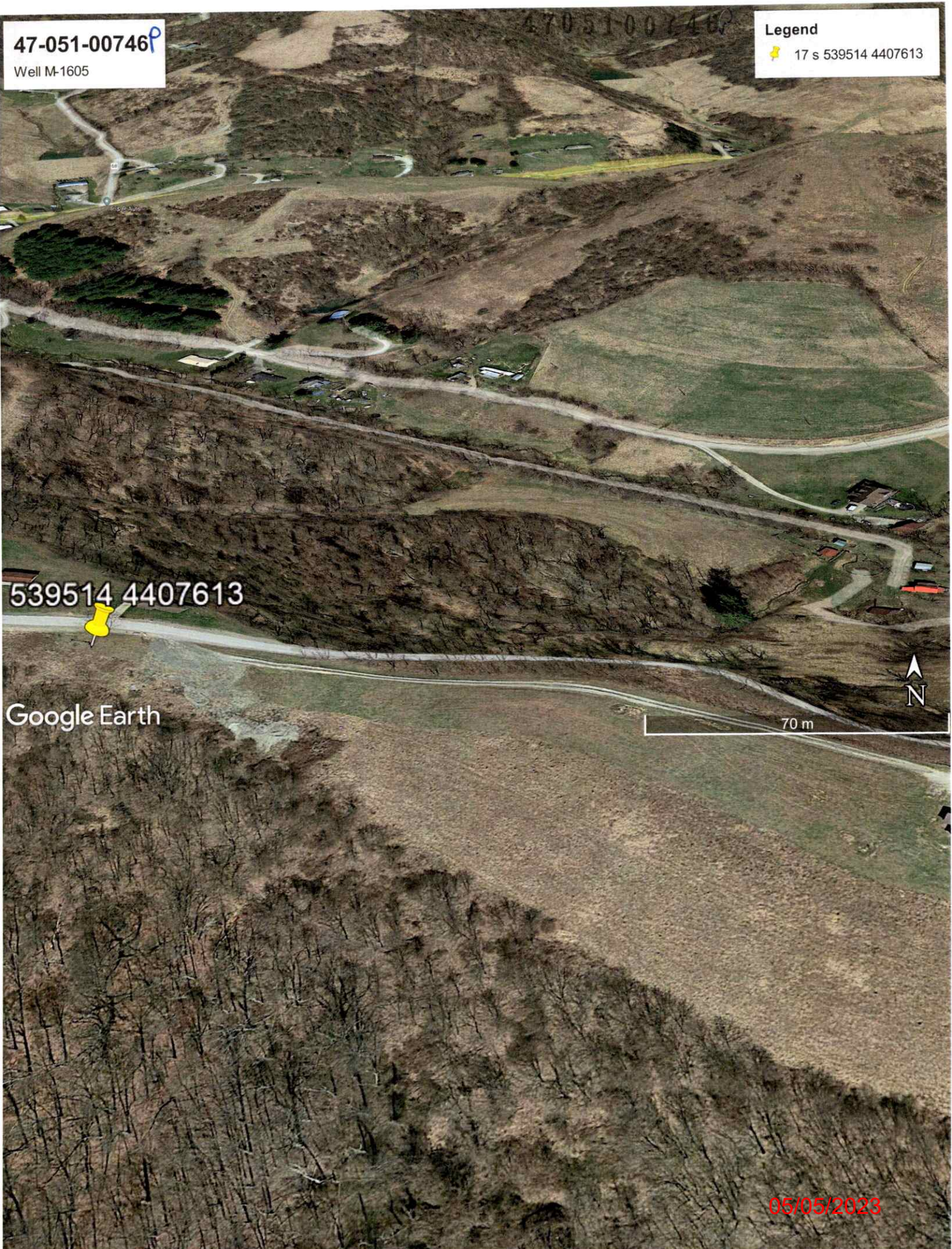
539514 4407613

Google Earth

70 m



05/05/2023



Liberty

DISTRICT, MARSHALL COUNTY, W. VA.

051 746

By Cameron Heat & Light Co.

Total depth 3288

Elevation

4705100746P

Sand.	Top.	Bottom.	Thick-ness.	Eleva-tion.	Production		Pays
					Intervals from Pgh. C.	B. I. Sand	
Pittsburgh Coal	1070	1076	6	418	0	1162	
Minshall	1139	1175	36	349	69	1093	
Murphy							
Moundsville							
1 C. R., Lit. Dunk.	1480	1510	30	+8	410	652	
Big Dunkard							
Burning Springs	1625	1660	35	-:37	555	607	
Gas							
Lower Gas	1750	1765	15	262	680	482	
Second Cow Run + Salt	1840	1950	110	352	770	392	
1st Salt							
2nd Salt							
3rd Salt							
4th Salt	2115	2167	52	627	1045	117	little gas
Maxton	2177	2210	33	689	1107	55	17' gas, 290'; 21', 2198'; 30', 2207'
Big Lime	2210	....	..	722	1140	22	675 M. to 116 M.
Keener							
Big Injun	2232	2492	260	744	1162	0	
Berea							
Gantz							
50-Foot							
30-Foot	3025 1/2	3053	28	1537	1955	793	1 1/2' gas, 3027; 96M
Gordon Stray	3059	3079	20	1571	1989	827	
Gordon	3087	3128	41	1599	2017	855	
Fourth	3156	3166	10	1668	2086	92 1/2	2' gas, 3158-61; 3' 132 M.
Fifth							
Sixth							
Speechley							

W. A. Reimer #2

051746

4705100746P

3" tubing in Well - 3258 ft.  
Anchor packer set at 2970 ft. of W Taylor Record  
Anchor below packer 218" M. H. W.

Tested 1/23/29  
4/10 in 3" = 212.760

Perforations 70 ft in 5 min  
110 ft " 10 "  
175 ft " 20 "

70 ft in 5-15-20-25-30-35-40

W. A. DOWLER NO. 2 WELL.

4705100746P

*Liberty*  
.....District, Marshall County, W. Va.  
By Cameron Heat & Light Co. (MONV-17).  
Bush & Bush, Contractors.

Started latter part of May, 1928; completed, June 26, 1928, (to 2212')  
Resumed drilling June, 1929, using our own tools; deepened to 3288'.  
10" casing, 279' (pulled); 8 1/4" casing (top of Little Dunkard), 1480';  
3" tubing set on Ancher packer with L. H. Thread--Packer at 2181';  
5 5/8" 20# casing on Big Line, at 2214', with Screen-down packer  
set at 2185'. 3" tubing, 3288'; ancher packer at 2970'; ancher  
below packer, 318',  
675 M. gas in Maxton; 8-24-29 = 116 M.; 50-Ft. gas, 14/10ths, 96 M.;  
4th Sand gas, 29/10ths, 132 M.  
Elevation..... 1488  
Record from Mr. Straub 9-11-39.

	Top	Bottom
Waynesburg Coal	780	...
Mapletown (Sewickley) Coal	964	967
Pittsburgh Coal (SIM)	1070	1076
Murphy Sand	1139	1175
Little Dunkard Sand	1480	1510
Big Dunkard Sand	1625	1660
Gas Sand	1750	1765
1st Salt Sand	1840	1950
2nd Salt Sand (a little gas)	2115	2167
Maxton Sand	2177	2210
(1st gas, 2190'; 2nd gas, 2198'; 3rd gas, 2207'. Maxton; 675 M. 8-24-29 = 116 M.)		
Big Line	2210	....
Total depth		2212
DEEPENED:		
Big Injun Sand	2232	2492
50-Ft. Sand (gas, 14/10ths, 96 M.)(SIM) (gas at 3027')	3025 1/2	3053
Gordon Stray Sand	3059	3079
Gordon Sand	3087	3128
Fourth Sand (gas, 29/10ths; 132 M.) (gas at 3158-61')	3156	3166
Total depth		3288

NOTE (on back of W. A. Dowler No. 3 record):  
3" tubing in well, 3288'.  
Ancher packer set at 2970 ft. G. W. Tayler record.  
Ancher below packer, 318 ft.  
Rested 1-23-29! 4/10 in 3", 212,760 cu. ft.  
Pick-up: 70# in 5 min.; 110# in 10 min.; 175# in 20 min.  
70# in 5-15-20-25-30-35-40 ?

4705100746P

W A. DOWLER #8 1928

051746

Waynesburg Coal	780	
Mapletown Coal	964-967	
Pittsburgh Coal	1070-1076	steel line
Murphy Sand	1188-1178	
Little Dunkard	1480-1510	
Big Dunkard	1628-1668	
Gas Sand	1780-1768	
1st Salt Sand	1840-1950	
2nd Salt Sand	2115-2167	little gas
Maxin Sand	2177-2210	
1st Gas Sand	2190	
2nd Gas Sand	2198	
3rd Gas Sand	2207	
Big Line	2210	
Total Depth	2218	

10 inch casing 279 feet  
 8 inch casing top of little Dunkard 1480  
 3 inch tubing set on Anchor packer left hand thread and packer at 2187

Resumed drilling June 1929 using own tools

6-5/8 20 lb casing on Big Line 2214 feet  
 Screw down packer set at 2185

Big Injun	2228	(2492)
Fifty Foot	2025	steel line
Gas at	2027-2053	
Gordon Stray	2089	
Bottom	2079	
Gordon	2087	
Bottom	2188	
Fourth Sand	2186	
Gas at	2180-2161	
Bottom of Fourth Sand	2166	
Total Depth	2208	

2212

1076 DD ftg

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 WV Department of  
 Environmental Protection

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INSTRUCTIONS

- 1) Attach a photo copy of the location of the well on a 7.5 minute Quadrangle with the corresponding Longitude and Latitude.
- 2) Designate the location of the well with the symbol(+).

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 JUL 09 93  
 Permitting  
 Office of Oil & Gas

+ 1.135  
2.10 W

5700 J

SEE ATTACHED PHOTO COPY

17586

80 30 00  
80 30 30

1.135  
2.10 W

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief.

SIGNED [Signature]  
TITLE [Signature]

W.A.  
DOWLER WELL #2  
DRILLED 1929

DATE July 2, 1993  
OPERATORS WELL NO. \_\_\_\_\_  
API WELL NO. 051-746-N

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1420-top of est. WATER SHED \_\_\_\_\_  
 DISTRICT LIBERTY COUNTY MARSHALL  
 QUADRANGLE CAMERON 228 4 15'SE

SURFACE OWNER HARMAN BROWN ACREAGE \_\_\_\_\_

OIL & GAS ROYALTY OWNER RANDALL LEE DOWLER LEASE ACREAGE 116  
 LEASE NO. \_\_\_\_\_

PRODUCING FORMATION FOURTH SAND 838' TOTAL DEPTH 3288'

WELL OPERATOR CAMERON GAS CO. DESIGNATED AGENT C. R. Coleman

ADDRESS 8 ADALINE AVE ADDRESS Same

CAMERON W.V. 26032

05/05/2023

16 1993

WW-4A  
Revised 6-07

1) Date: APRIL 14, 2023  
 2) Operator's Well Number M-1605  
 3) API Well No.: 47 - 051 - 00746

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

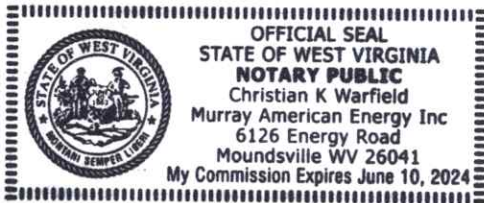
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>RUTH E. BROWN (C/O RUTH E. RIGGLE)</u>	Name <u>WEST VIRGINIA LAND RESOURCES INC.</u>
Address <u>875 DRAGON HWY</u>	Address <u>1 BRIDGE STREET</u>
<u>CAMERON, WV 26033</u>	<u>MONONGAH, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>STRADER GOWER</u>	(c) Coal Lessee with Declaration
Address <u>2525W ALEXANDER RD.</u>	Name _____
<u>VALLEY GROVE, WV 26060</u>	Address _____
Telephone <u>(304) 993-6188</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 reverses 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 WEST VIRGINIA LAND RESOURCES INC.  
 By: JAY HORES  
 Its: PROJECT ENGINEER  
 Address 6126 ENERGY ROAD  
MOUNDSVILLE, WV 26041  
 Telephone (304) 843-3565

**RECEIVED**  
 Office Of Oil and Gas  
**APR 27**  
 WV Department of  
 Environmental Protection

Subscribed and sworn before me this 20 day of April 2023  
Christian Warfield Notary Public  
 My Commission Expires June 10, 2024

**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

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APR 27 2023

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7020 0640 0001 3302 0512

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Certified Mail Fee \$ \_\_\_\_\_

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

Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

Total Postage and Fees \$ \_\_\_\_\_

Send To  
Rath Riggle  
875 Dragon Hwy  
Cameron, WV 26033

Postmark  
CAMERON WV  
APR 25 2023

M-1605

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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WW-9  
(5/16)

API Number 47 - 051 - 00746  
Operator's Well No. \_\_\_\_\_

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

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code \_\_\_\_\_

Watershed (HUC 10) FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK Quadrangle CAMERON WV,PA

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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Tanks, see attached letter)

Will closed loop system be used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement

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

Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site.

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

-Landfill or offsite name/permit number? N/A

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 Jay Hores  
Company Official (Typed Name) Jay Hores  
Company Official Title Project Engineer

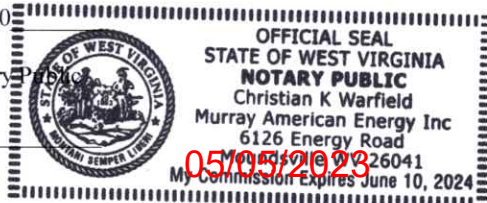
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WV Department of  
Environmental Protection

Subscribed and sworn before me this 20 day of April 2023

Charles Warfield

Notary

My commission expires June 10, 2024



4705100746P

**AMERICAN CONSOLIDATED NATURAL  
RESOURCES & WEST VIRGINIA LAND  
RESOURCES**

**AMERICAN CONSOLIDATED  
NATURAL RESOURCES & WEST  
VIRGINIA LAND RESOURCES**

46226 National Road  
St. Clairsville, OH 43950

*phone:* 304.843.3565

*fax:* 304.843.3546

*e-mail:* [JayHores@acnrinc.com](mailto:JayHores@acnrinc.com)

**JAY HORES**

*Project Engineer*

April 20, 2023

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

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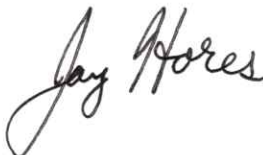
To Whom It May Concern,

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,



Jay Hores  
Project Engineer

05/05/2023

4705100746P

Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Seed Mix in accordance with WVDEP Oil  
and Gas, Erosion and Sediment Control  
Field Manual

Seed Mix in accordance with WVDEP Oil  
and Gas, Erosion and Sediment Control  
Field Manual

**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: Strader Gower

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

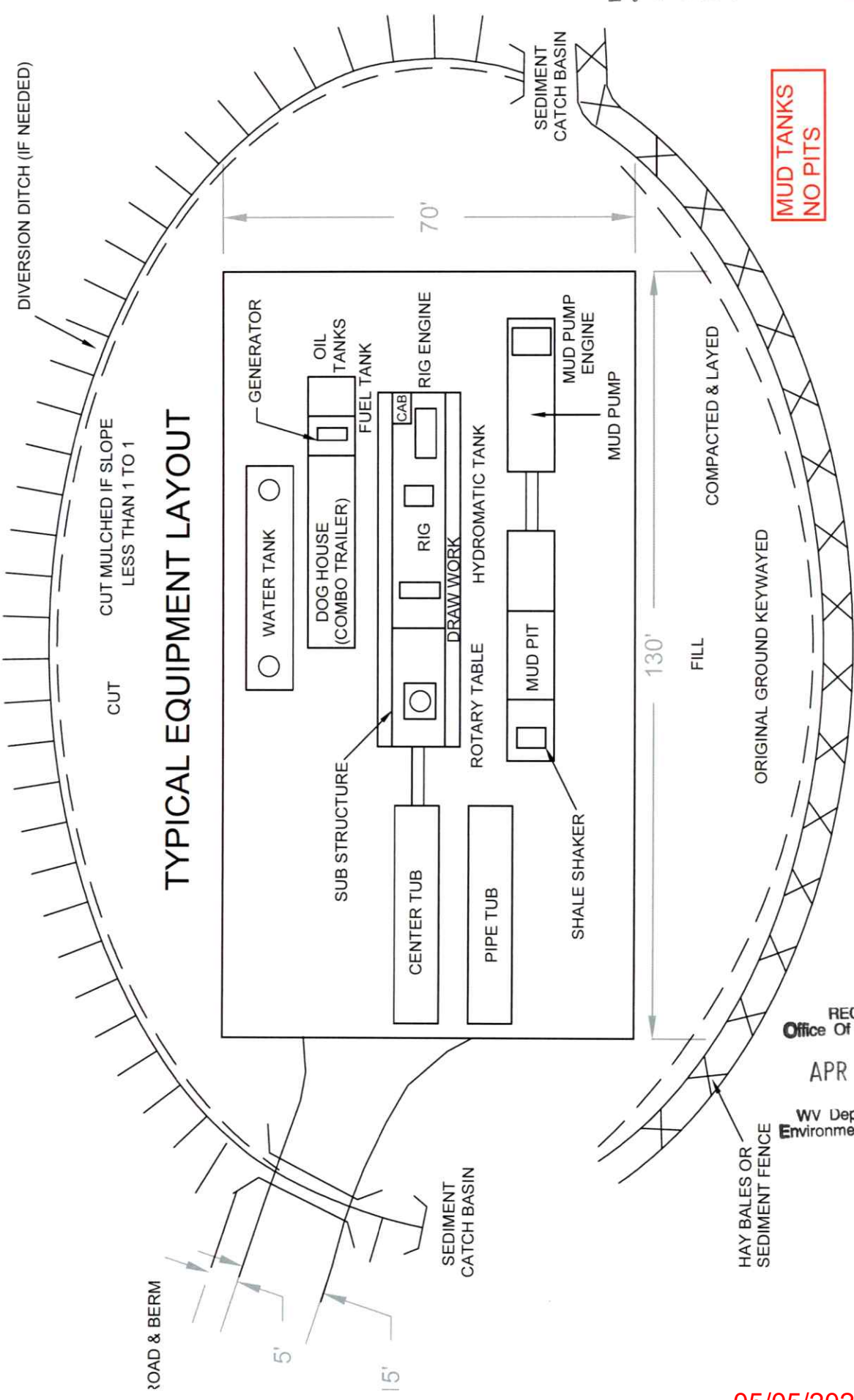
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Environmental Protection

Title: Inspector Oil & Gas Date: 4/21/2023

Field Reviewed? ( X ) Yes ( ) No

05/05/2023

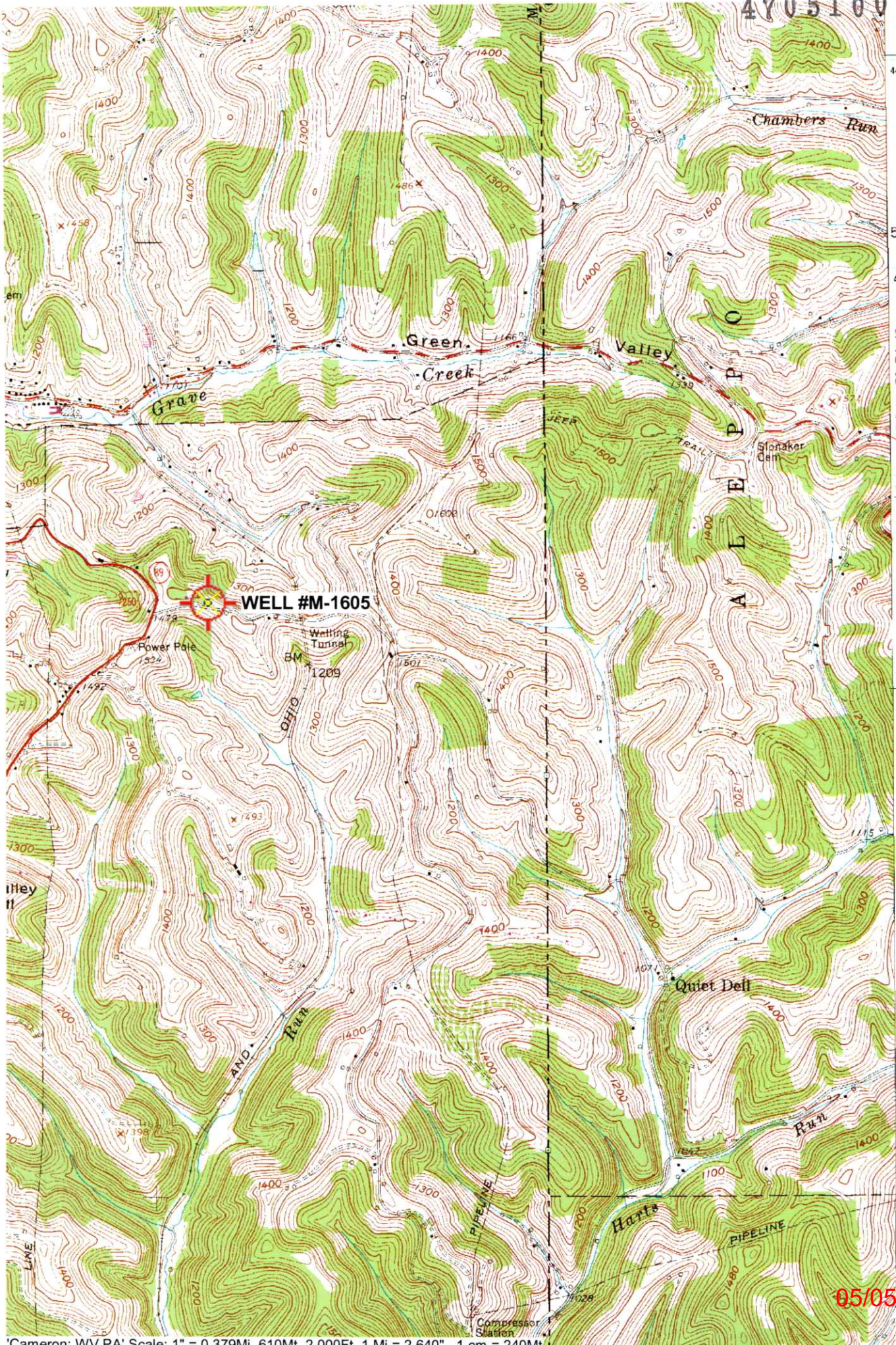
TYPICAL DRAWING OF WELL PLUGGING SITE PLAN



TYPICAL EQUIPMENT LAYOUT

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4705100746P



4410  
50'  
4409  
4408  
4406  
4405  
47'30'

(NEW FREEPORT)  
4963 IV SW

9.2 MI. TO P.A. 18

05/05/2023

WW-7  
8-30-06

4705100746 P



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-051-00746 WELL NO.: M-1605

FARM NAME: W.A. DOWLER

RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.

COUNTY: MARSHALL DISTRICT: LIBERTY

QUADRANGLE: CAMERON WV, PA

SURFACE OWNER: RUTH E. BROWN (C/O RUTH E. RIGGLE)

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: 4,407,613 m

UTM GPS EASTING: 539,514 m GPS ELEVATION: 451 m (1479')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

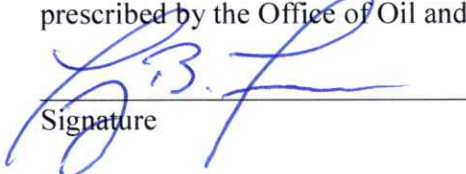
- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

**4. Letter size copy of the topography map showing the well location.**

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

  
Signature

Professional Surveyor  
Title

APRIL 14, 2023  
Date

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APR 27 2023  
WV Department of  
Environmental Protection

05/05/2023



Kennedy, James P <james.p.kennedy@wv.gov>

---

## plugging permit issued 4705100746

1 message

---

**Kennedy, James P** <james.p.kennedy@wv.gov>

Thu, May 4, 2023 at 10:12 AM

To: "Roddy, David" <DavidRoddy@acnrinc.com>, Strader C Gower <strader.c.gower@wv.gov>, ebuzzard@marshallcountywv.org


To whom it may concern, a plugging permit has been issued for 4705100746.


James Kennedy

WVDEP OOG

---

### 2 attachments

 **IR-8 4705100746.pdf**  
120K

 **4705100746.pdf**  
4552K

05/05/2023