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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)

Monday, December 12, 2022  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC.  
46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for M-1789  
47-051-02477-00-00

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-1789  
Farm Name: BASIL MCCRACKEN EST  
U.S. WELL NUMBER: 47-051-02477-00-00  
Vertical Plugging  
Date Issued: 12/12/2022

Promoting a healthy environment.

12/16/2022

## 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. 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.

WW-4B  
Rev. 2/01

1) Date SEPTEMBER 28, 20 22  
2) Operator's  
Well No. M-1789  
3) API Well No. 47-001-70482

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 1355.81' 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 9) Plugging Contractor  
Name STRADER GOWER Name \_\_\_\_\_  
Address 2525W ALEXANDER RD. Address \_\_\_\_\_  
VALLEY GROVE, WV 26060

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

See Exhibit No. 1

MSHA 101 C  
EXEMPTION

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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 Strader Gower Date 10/07/2022

12/16/2022

**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

- ~~(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

MSHA 101C Summary

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

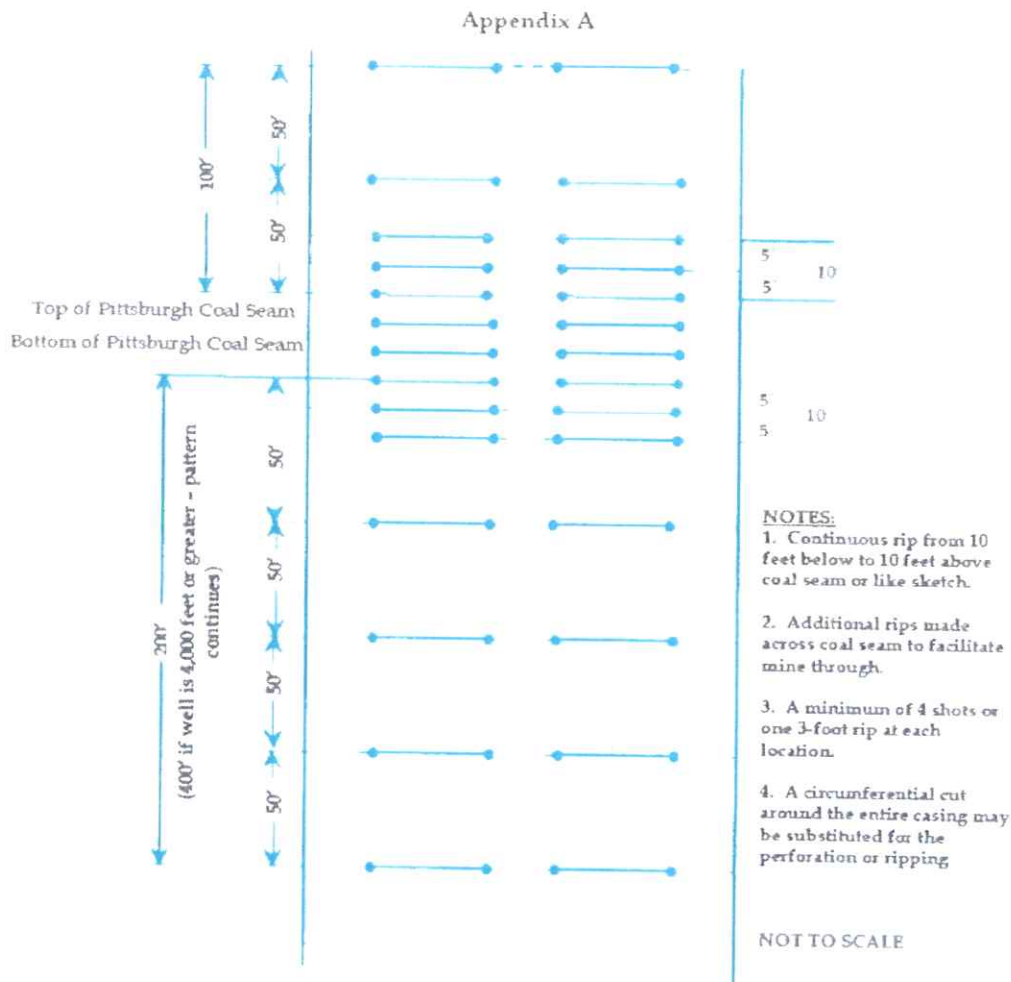
III. Abandoned Well

- 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).

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 WV Department of Environmental Protection

12/16/2022

- 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



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



- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- [Pipeline-Plus<sup>SM</sup> New](#)

Select County: (051) Marshall  (Check All)

Enter Permit #: 70482

Location  Production  Plugging

Owner/Completion  Stratigraphy  Sample

Pay/Show/Water  Logs  Btm Hole Loc

WV Geological & Economic Survey:

Well: County = 51 Permit = 70482 [Link to all digital records for well](#)

Report Time: Monday, December 12, 2022 9:02:19 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTIME	UTMIN
4705170482	Marshall	70482	Liberly	Cameron	39.801193	-80.541654	539237.6	4405792.4	

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4705170482	--	--	unknown	Prpty Map John Wendt		1031							unknown

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_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	P_AFT	TI_AFT	TI_BH_P_BEF
4705170482	--	--	--				unclassified	unclassified	not available	unknown	unknown														

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well \*\* some operators may have reported NGL under Oil

There is no Production NGL data for this well \*\* some operators may have reported NGL under Oil

There is no Production Water data for this well

There is no Stratigraphy data for this well

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

There is no Plugging data for this well

There is no Sample data for this well

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12/16/2022

4705102477P

WW-4A  
Revised 6-07

1) Date: SEPTEMBER 28, 2022  
2) Operator's Well Number M-1789  
3) API Well No.: 47 - 051 - 70482

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

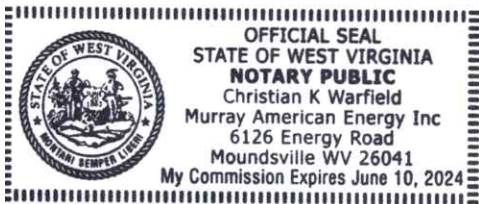
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>BASIL MCCrackEN EST. (C/O ANN REEVES)</u>	Name <u>WEST VIRGINIA LAND RESOURCES INC.</u>
Address <u>324 HORNE RUN RD.</u>	Address <u>1 BRIDGE STREET</u>
<u>AMITY, PA 15311</u>	<u>MONONGAH, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) 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	<u>WEST VIRGINIA LAND RESOURCES INC.</u>	<b>RECEIVED</b> Office of Oil and Gas <u>OCT 13 2022</u> WV Department of Environmental Protection
By:	<u>JAY HORES</u>	
Its:	<u>PROJECT ENGINEER</u>	
Address	<u>6126 ENERGY ROAD</u> <u>MOUNDSVILLE, WV 26041</u>	
Telephone	<u>(304) 843-3565</u>	

Subscribed and sworn before me this 7 day of October  
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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

12/16/2022





WW-9  
(5/16)

API Number 47 - 051 - 70482  
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

Subscribed and sworn before me this 7 day of October

Christian Warfield  
My commission expires June 10, 2024

OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Christian K Warfield  
Murray American Energy Inc  
6126 Energy Road  
Moundsville WV 26041  
My Commission Expires June 10, 2024

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47-051-02477P

**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*

October 7, 2022

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

To Whom It May Concern,

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

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

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

Sincerely,



Jay Hores  
Project Engineer

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12/16/2022

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 Gener

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

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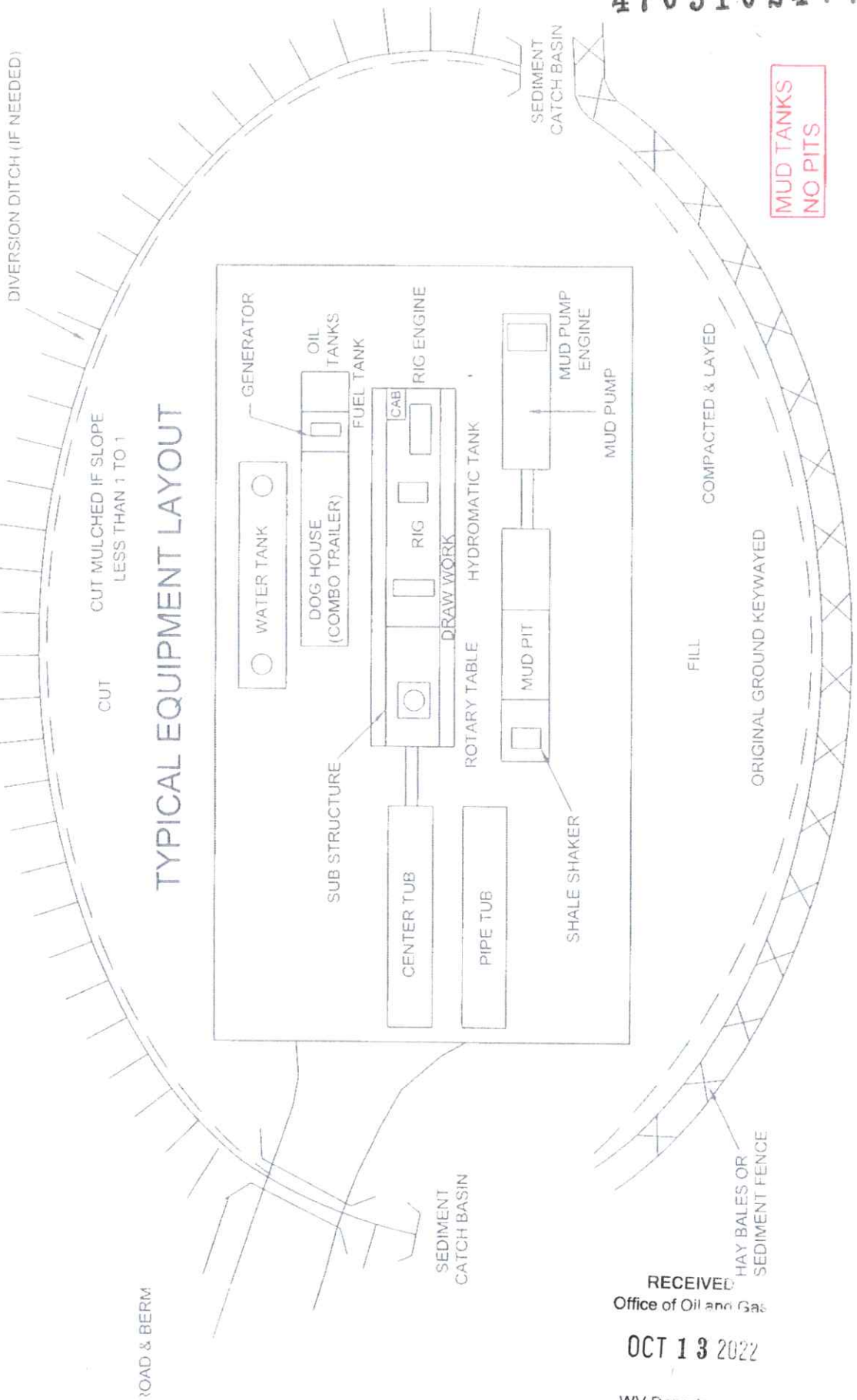
Title: Oil & Gas Inspector

Date: 10/07/2022

Field Reviewed? ( ) Yes ( ) No

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# TYPICAL DRAWING OF WELL PLUGGING SITE PLAN



MUD TANKS  
NO PITS

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N/A

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

Operator Name: WEST VIRGINIA LAND RESOURCES INC.

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

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.

[Empty response box for question 1]

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

[Empty response box for question 2]

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

[Empty response box for question 3]

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

[Empty response box for question 4]

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

N/A

6. Provide a statement that 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.

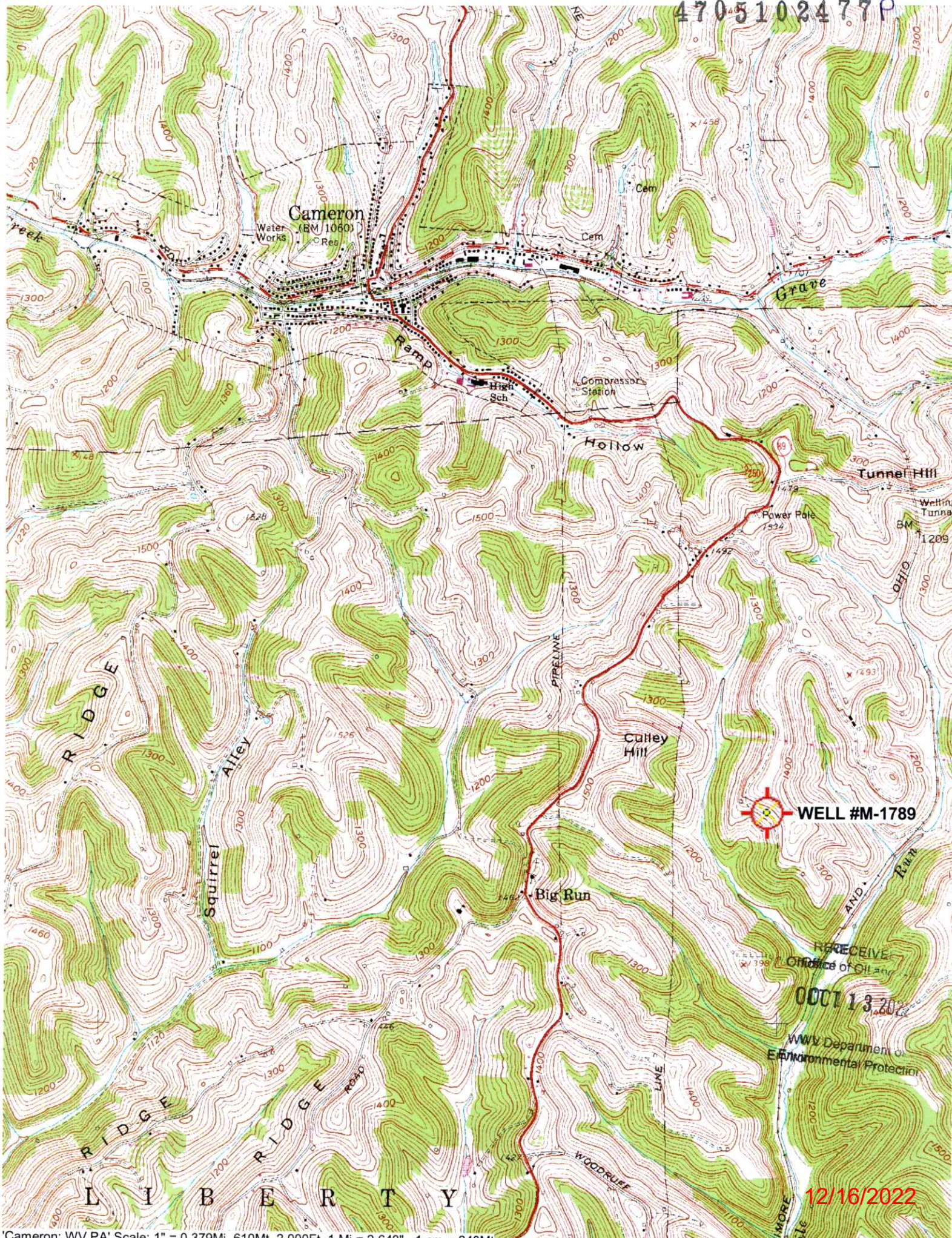
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

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Signature: \_\_\_\_\_

Date: \_\_\_\_\_

4705102477P



WELL #M-1789

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WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-051-70482 WELL NO.: M-1789

FARM NAME: JOHN WENDT

RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.

COUNTY: MARSHALL DISTRICT: LIBERTY

QUADRANGLE: CAMERON WV, PA

SURFACE OWNER: BASIL MCCRACKEN EST. (C/O ANN REEVES)

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

UTM GPS NORTHING: 4,405,841 m (1355')

UTM GPS EASTING: 539,205 m GPS ELEVATION: 413 m

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

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

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

Mapping Grade GPS \_\_\_\_\_ : 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

SEPTEMBER 28, 2022  
Date

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

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## Plugging permits issued 4705102475 4705102477

1 message

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

Mon, Dec 12, 2022 at 10:50 AM

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


To whom it may concern plugging permits have been issued for 4705102475 4705102477.


James Kennedy


WVDEP OOG


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### 4 attachments

 **IR-8 4705102475 .pdf**  
12K

 **4705102475.pdf**  
2355K

 **IR-8 4705102477.pdf**  
120K

 **4705102477.pdf**  
2294K

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