



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, October 31, 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-1786
47-051-02473-00-00

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-1786
Farm Name: MARSHALL COUNTY COAL
U.S. WELL NUMBER: 47-051-02473-00-00
Vertical Plugging
Date Issued: 10/31/2022

Promoting a healthy environment.

11/04/2022

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

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 18, 20 22
2) Operator's
Well No. M-1786
3) API Well No. 47-051 - 30081

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 disp sal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow

5) Location: Elevation 1178.27' Watershed GRAVE CREEK
District CAMERON 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

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 101C
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 9/28/2022

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

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

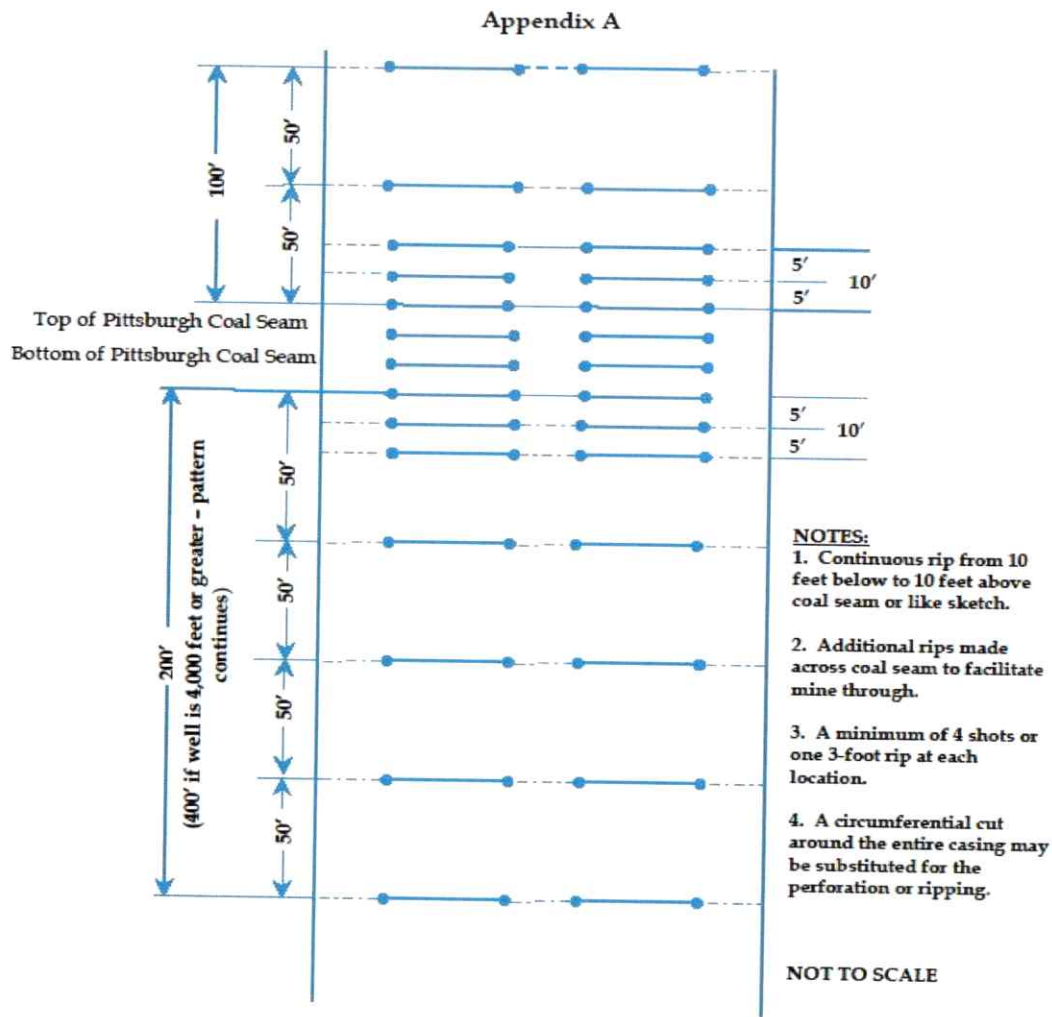
- A. Check for Methane
 B. Notify MSHA we are plugging an active well
 C. Kill Well
 D. Pull Sucker Rods and tubing
 E. Make Diligent Effort to Pull Casing
 F. If casing cannot be pulled...
 i. Run Bond Log
 1. Discuss Action Plan with Mine Personal
 ii. Notify MSHA that casing cannot be pulled
 iii. 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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- 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

Cameron District, Marshall County, W. Va.

By The Manufacturers Light & Heat Co., 500 Union Trust Bldg.,
Pittsburgh, Pa.On 135 acres, surface owned by Alice Chambers, Cameron, W. Va.,
and mineral rights by ML&H Co., Pgh., Pa.

Drilled prior to June 1, 1929.

Elevation, 1156' L.

15" conductor; 10" casing, 294'; 8", 1055'; 6-5/8", 1890'.

Coal was encountered at 405-410, 630-655, and 750-757'.

Abandonment reported to Dept. of Mines August 17, 1936.

Well was shot in Gordon Stray Sand.

Gas well.

| | Top. | Bottom. | Thickness. |
|---|------|---------|------------|
| Waynesburg Coal | 405 | 410 | 5 |
| Mapletown (Sewickley) Coal | 650 | 655 | 5 |
| Pittsburgh Coal | 750 | 757 | 7 |
| Murphy Sand | 880 | 900 | 20 |
| Big Dunbar Sand | 1250 | 1280 | 30 |
| Gas Sand | 1415 | 1455 | 40 |
| Salt Sand | 1540 | 1595 | 55 |
| Little Lime | 1835 | 1845 | 10 |
| Big Lime | 1850 | 1900 | 50 |
| Big Injun Sand | 1900 | 2150 | 250 |
| 30-Foot chert | 2400 | 2520 | 120 |
| Fifty-foot Sand (gas at 2695') | 2693 | 2715 | 22 |
| Gordon Stray and Gordon Sands (gas at 2763') | 2755 | 2795 | 40 |
| Sand | 2922 | 2926 | 4 |
| Total depth | | 2932 | |

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WW-4A
Revised 6-07

1) Date: SEPTEMBER 18, 2022
2) Operator's Well Number M-1786
3) API Well No.: 47 - 051 - 30061

**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>MARSHALL COUNTY COAL RESOURCES</u> | Name <u>WEST VIRGINIA LAND RESOURCES INC.</u> |
| Address <u>6126 ENERGY ROAD</u> | Address <u>1 BRIDGE STREET</u> |
| <u>MOUNDSVILLE, WV 26041</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

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Subscribed and sworn before me this 27 day of September 2022
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.

4705102473P

There is no read Receipt for the land owner because an American Consolidated Natural Resources affiliate company owns the property. Marshall County Coal Resources has purchased this property for the intent to plug the well on the property.

Jay Hores

Project Engineer

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11/04/2022

WW-9
(5/16)

API Number 47 - 051 - 30061
Operator's Well No. M-178C

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) GRAVE 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

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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.

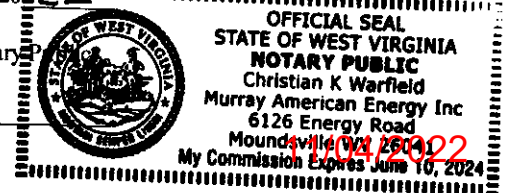
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 27 day of September, 2022
Christian K Warfield Notary Public

My commission expires June 10, 2024



4705102473P

**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

JAY HORES

Project Engineer

September 27, 2022

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

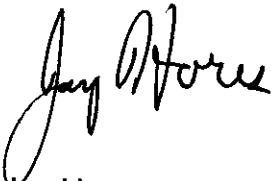
To Whom It May Concern,

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

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

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

Sincerely,



Jay Hores
Project Engineer

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4705102473P

Form WW-9

Operator's Well No. M-1786

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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WV Department of Environmental Protection

Title: Oil & Gas Inspector

Date: 9/30/2022

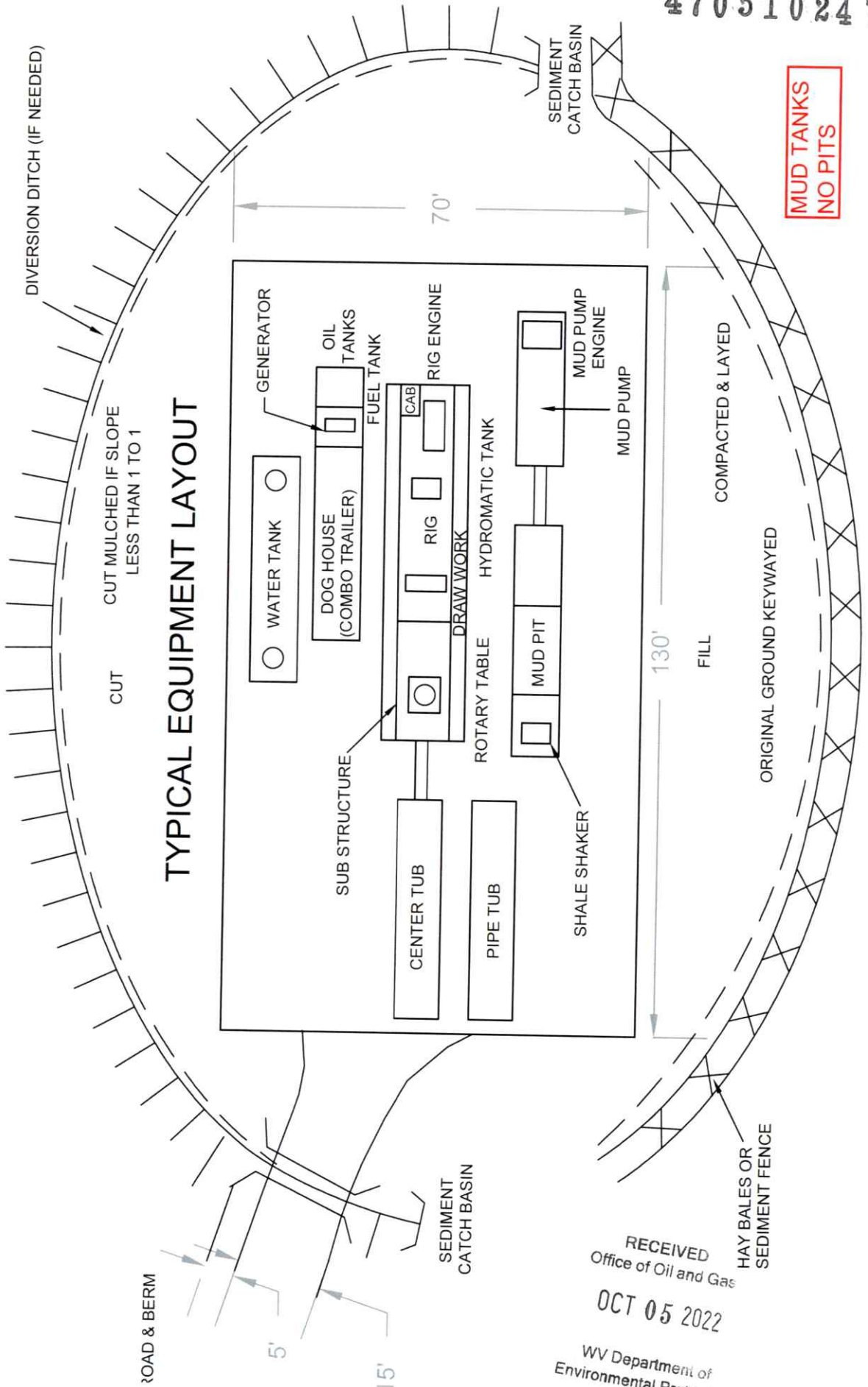
Field Reviewed? () Yes () No

Insert text here

11/04/2022

4705102473 P

TYPICAL DRAWING OF WELL PLUGGING SITE PLAN



TYPICAL EQUIPMENT LAYOUT

MUD TANKS
NO PITS

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4410
50'
4409
4408
4406
4405
4404

(NEW FREEPORT)
4963 IV SW

9.2 MI. TO PA. 18

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06/05/2022
WV Department of
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Director

11/04/2022

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-30061 WELL NO.: M-1786

FARM NAME: ALICE CHAMBERS

RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.

COUNTY: MARSHALL DISTRICT: CAMERON

QUADRANGLE: CAMERON WV, PA

SURFACE OWNER: MARSHALL COUNTY COAL RESOURCES

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,408,866 m

UTM GPS EASTING: 539,688 m GPS ELEVATION: 359 m (1176')

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

SEPTEMBER 18, 2022

Title

Date

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11/04/2022



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

Plugging permit issued 4705102473

1 message

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


Mon, Oct 31, 2022 at 11:01 AM


To: 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 4705102473.

James Kennedy WVDEP OOG

2 attachments

 **IR-8 4705102473.pdf**
13K

 **4705102473.pdf**
1795K

11/04/2022