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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, November 15, 2021  
WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

WEST VIRGINIA LAND RESOURCES, INC.  
46226 NATIONAL ROAD WEST  
ST. CLAIRSVILLE, OH 43950

Re: Permit approval for MC110A  
47-051-01149-00-00

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: MC110A  
Farm Name: SCHRACK, DAVID W.  
U.S. WELL NUMBER: 47-051-01149-00-00  
Coal Bed Methane Well Plugging  
Date Issued: 11/15/2021

## 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.

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### 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 FEBRUARY 10, 20 21  
2) Operator's  
Well No. MC-110A  
3) API Well No. 47-051-01149C

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 1139.28' Watershed STULL RUN OF WHEELING CREEK  
District WEBSTER County MARSHALL Quadrangle MAJORSVILLE WV,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 BARRY STOLLINGS  
Address 28 CONIFER DRIVE  
BRIDGEPORT, WV 26330
- 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

↓  
MSHA 101 C  
EXEMPTION

• THIS ACCESS WELL WILL BE PLUGGED FROM A CIBP SET IN  
COMPETENT FORMATION TO THE SURFACE, WITH EXPANDING  
CEMENT.

• THE CBM LATERAL WELL BORES WILL BE PLUGGED  
FROM THE MC110 PRODUCTION WELL, WHICH WILL  
BE PERMITTED THROUGH THE PLUGGING PERMIT FOR API NO. 47-051-01148.

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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 4-5-21

11/19/2021

## Exhibit Number 1

West Virginia Land Resources will utilize the following methods to plug CBM wells.

N/A  
 \* CBM wells are a directionally drilled well with horizontal wellbores through the Pittsburgh coal seam. The wellbores through the coal will be water infused for first intersection of the laterals. Then the lateral system will be cemented/grouted. The vertical wellbore will be cleaned out to the total depth or attainable bottom (PBDT). The well sump, 7" casing, and packer will be pulled if possible. This proposed method of plugging the wellbore will apply to that portion of the wellbore from the top of the coal seam to be mined to the surface. All Casings will be removed and at no time will more than a single string be left in the wellbore.

N/A  
 \* All casing will be removed so that only a single string will be left in the wellbore, if it cannot be removed. Intact and uncemented casings as determined by electronic logging shall be perforated, ripped, or milled at no greater than 100' intervals to the top of the casing. A borehole survey will be conducted to determine the top and bottom of the coal seam to be mined. In addition, starting at a point 5' below through 5' above the coal to be mined, any metal casing shall be ripped, cut or perforated on no greater than a 5' interval. Before or after mine through this well will be plugged with cement to the surface from a point at or above the Pittsburg Coal with a solid plug.

\* MC110A (ACCESS WELL) WILL HAVE A CIBP SET IN COMPACT FORMATION JUST ABOVE THE PITTSBURGH COAL SEAM AND PLUGGED FROM THAT POINT TO THE SURFACE WITH EXPANDING CEMENT.

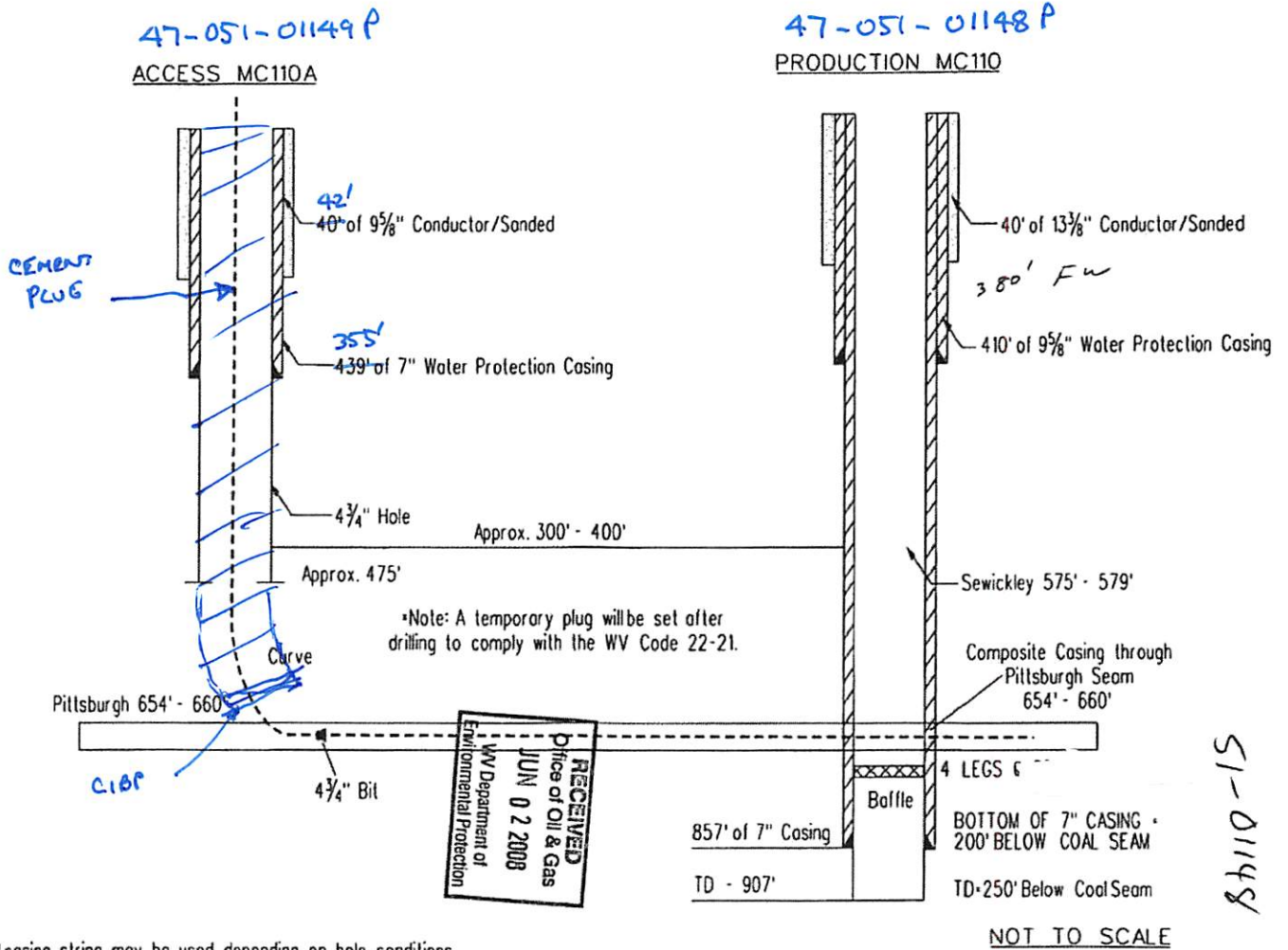
- SET A MONUMENT AT SURFACE PER WV STATE CODE,

JWM

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FIGURE 1

CNX GAS COMPANY LLC



NOTE: Additional casing string may be used depending on hole conditions

- THIS ACCESS WELL WILL HAVE A CIBP SET IN COMPETENT FORMATION JUST ABOVE THE PITTSBURGH COAL SEAM AND THEN FILLED WITH EXPANDING CEMENT FROM THE CIBP TO THE SURFACE.
- SET MONUMENT AT SURFACE. PER WV STATE CODE.

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*JWM*

WR-35  
Rev (5-01)

DATE: 1/7/2008  
API #: 47-5101149 C

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: SCHRACK, DAVID W. Operator Well No.: MC-110A

LOCATION: Elevation: 1138.71' Quadrangle: MAJORSVILLE, WV-PA 7.5'

District: WEBSTER County: MAESHALL  
Latitude: \_\_\_\_\_ Feet South of 51 Deg. 94 Min. 59.21 Sec.  
Longitude: \_\_\_\_\_ Feet West of 16 Deg. 89 Min. 649.07 Sec.

Company: CNX Gas Company, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement Fill Up (# of Sacks)
Address: 2481 John Nash BLVD	9 5/8"	42'	42'	SANDED IN
Bluefield Wv 24701	7"	354.8'	354.8'	75 SKS
Agent: Les Arrington				
Inspector: Bill Hatfield				
Date Permit Issued: 6/18/2008				
Date Well Work Commenced: 7/17/2008				
Date Well Work Completed: 7/20/2008				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary Cable <u>Rig</u>				
Total Depth (feet): 657'				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 55', 307'				

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JAN 16 2009  
WV Department of Environmental Protection

OPEN FLOW DATA

Producing formation Pittsburgh Coal Seam depth (ft) 657'-930'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE. 11/19/2021

**MARSHALL COUNTY CBM No. MC-110A DRILL LOG** 47-051-01149 CP  
API #47-5101149

Depth	Description
15'-30'	FILL
30'-53'	SHALE
53'-55'	SAND
55'-103'	COAL
103'-108'	SHALE
108'-131'	RR
131'-200'	SHALE
200'-260'	SAND
260'-265'	SHALE
265'-305'	RR
305'-307'	COAL
307'-320'	SHALE
320'-360'	TD

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Environmental Protection  
11/19/2021

WW-4A  
Revised 6-07

1) Date: FEBRUARY 10, 2021  
2) Operator's Well Number MC-110A

3) API Well No.: 47 - 051 - 01149C

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

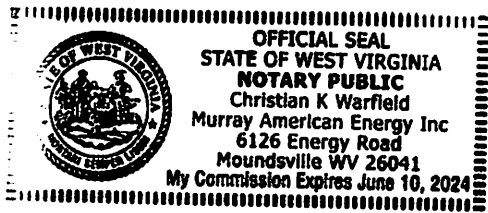
<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>DAVID W. SCHRACK</u>	Name <u>WEST VIRGINIA LAND RESOURCES INC.</u>
Address <u>37 UPPER STULLS RUN RD.</u>	Address <u>1 BRIDGE STREET</u>
<u>CAMERON, WV 26033</u>	<u>MONONGAH, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>BARRY STOLLINGS</u>	(c) Coal Lessee with Declaration
Address <u>28 CONIFER DRIVE</u>	Name _____
<u>BRIDGEPORT, WV 26330</u>	Address _____
Telephone <u>(304) 552-4194</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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APR 8 2021

Subscribed and sworn before me this 31 day of March, 2021  
Christian Warfield Notary Public  
 My Commission Expires June 10, 2024

WV Department of Environmental Protection

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



OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Charles K. Watters  
Murray American Energy Inc  
6156 Energy Road  
Moundsville WV 26041  
My Commission Expires June 10, 2024



7019 1120 0000 9580 4566

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

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

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

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

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

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

Postmark Here

Send To  
 David Schrach  
 Street and Apt. No., or PO Box No. MC-110  
 37 Upper Stalls Run RD  
 City, State, ZIP+4®  
 Cameron, WV 26033

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

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 APR 8 2021  
 WV Department of  
 Environmental Protection

47-051-01149C

WW-9  
(5/16)

API Number 47 - 051 - 01149C  
Operator's Well No. MC-116A

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) STULL RUN OF WHEELING CREEK Quadrangle MAJORSVILLE 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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APR 8 2021  
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Environmental Protection

Subscribed and sworn before me this 31 day of March, 2021

Christian Warfield Notary Public

My commission expires June 10, 2024



OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Christian K. Washfield  
Murphy American Energy Inc  
6156 Energy Road  
Moundsville WV 26041  
My Commission Expires June 10, 2022



11/19/2021

47-051-01149CF

**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

March 31, 2021

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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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: Bang Stiles

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title: inspector

Date: 4-5-21

Field Reviewed? (  ) Yes

(  ) No

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47-051-01149P

57°30"

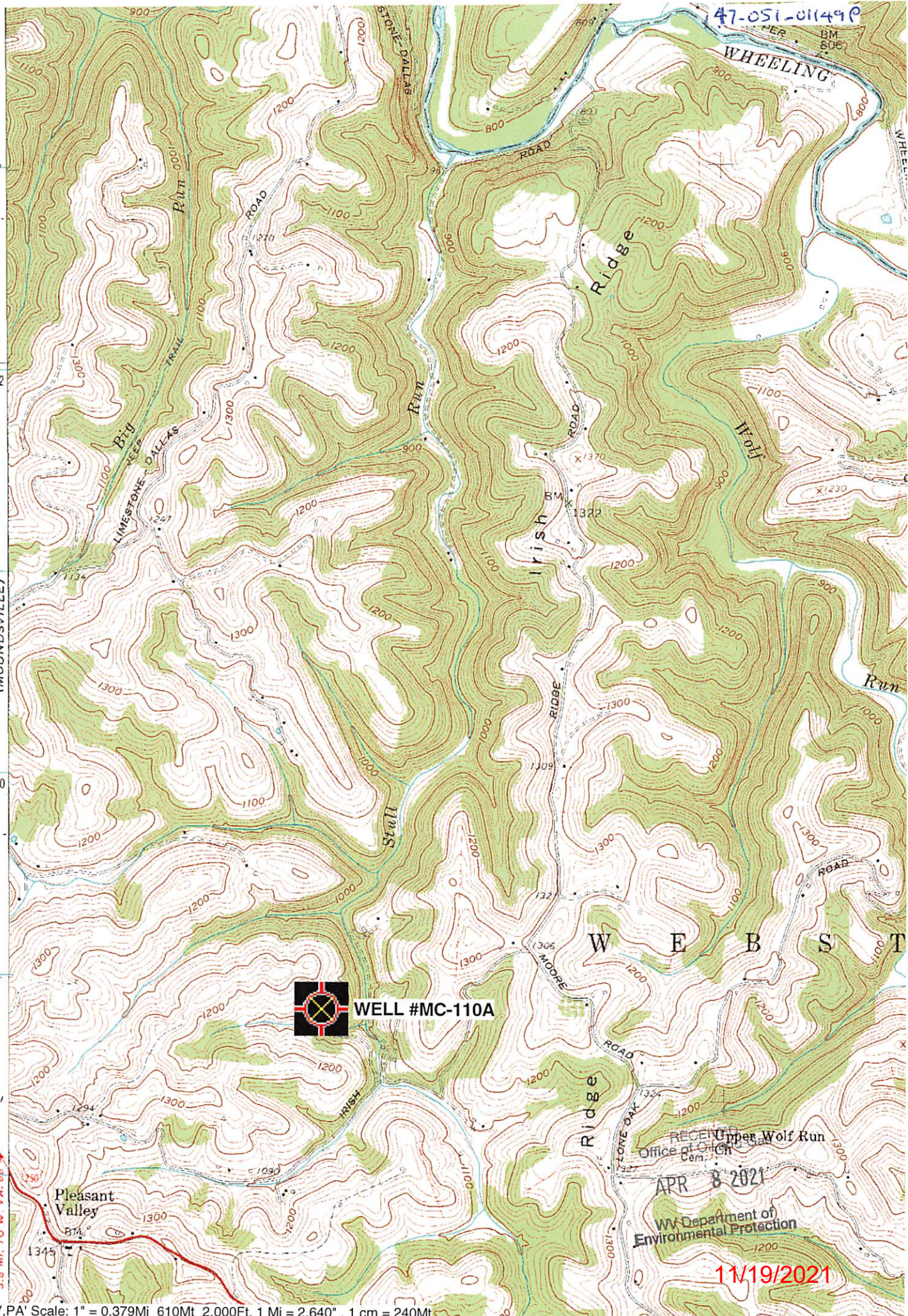
4422

4863 1 NW  
(MOUNDSVILLE)

4420

55'

MOUNDSVILLE 9.3 MI.  
3.5 MI. TO W. VA. 68



**WELL #MC-110A**

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47-051-01149C

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-051-01149C WELL NO.: MC-110A

FARM NAME: DAVID W. SCHRACK

RESPONSIBLE PARTY NAME: WEST VIRGINIA LAND RESOURCES INC.

COUNTY: MARSHALL DISTRICT: WEBSTER

QUADRANGLE: MAJORSVILLE WV, PA

SURFACE OWNER: DAVID W. SCHRACK

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

UTM GPS NORTHING: 4,419,057 m (1148')

UTM GPS EASTING: 533,625 m GPS ELEVATION: 347 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 \_\_\_\_\_

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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

FEBRUARY 10, 2021

Date

11/19/2021





Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

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**Plugging Well Work Permit (API: 47-051-01149)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Mon, Nov 15, 2021 at 2:31 PM

To: Jay Hores &lt;jayhores@coalsource.com&gt;, David Roddy &lt;davidroddy@coalsource.com&gt;, Eric Buzzard &lt;ebuzzard@marshallcountywv.org&gt;, "Harris, Bryan O" &lt;bryan.o.harris@wv.gov&gt;

I have attached a copy of the newly issued well permit number "MC110A" . This will serve as your copy.

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**

**Environmental Resource Specialist 3**

**West Virginia Department of Environmental Protection**

**Office of Oil & Gas**

**601 57th St. SE**

**Charleston, WV 25304**


**(304) 926-0499 ext. 41115**

**(304) 926-0452 fax**

**[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)**

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**2 attachments**

 **47-051-01149 - Copy.pdf**  
3014K

 **IR-8 Blank.pdf**  
183K

**11/19/2021**