



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, July 25, 2022
WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for WPHC-006B
47-109-02498-00-00

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: WPHC-006B
Farm Name: FOREST LAND GROUP
U.S. WELL NUMBER: 47-109-02498-00-00
Coal Bed Methane Well Plugging
Date Issued: 7/25/2022

Promoting a healthy environment.

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.

1) Date April 11, 2022
2) Operator's
Well No. WPHC-006B
3) API Well No. 47-109 - 02498

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A CBM WELL.

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

5) Location: Elevation 1725.08 ft Watershed Rockhouse Fork of Clear Fork
District Oceana County Wyoming Quadrangle McGraws

6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast
Address 414 Summers Street Address 31 Hickory Drive
Charleston, WV 25301 Barboursville, WV 25504

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name R & J Well Services
Address 66 Old Church Lane Address P.O. Box 40
Pipestem, WV 25979 Hueysville, KY 41640-0040

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

THIS IS THE PRODUCTION WELL FOR A HORIZONTAL PINNATE CBM WELL.

See Attached

RECEIVED
Office of Oil and Gas
APR 25 2022
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 *Gary Kennedy* Date 4/22/22

Plugging Prognosis

API #: 4710902498

Casing Schedule:

20" @ 19'

13 3/8" @ 86 (CTS w/ 12 cu ft)

9 5/8" @ 576' (CTS w/ 189 cu ft)

7" @ 707' (CTS w/142 cu ft)

TD listed as 835'

Estimated lateral from plat

• B Hole

- Lower Beckley: 17,500' x 4.75" Hole ID = 2,153 Cu ft = 480 BBL w/ 125% excess

19,000' x 4.75" ✓
 2,338 Cu ft = 520 BBL w/ 125% EXCESS
 580 BBL ✓
 90m

Fresh Water: None listed

Salt Water: None listed

Gas Shows: None listed

Oil Shows: None listed

Coal: 234', 726', 768'

Elevation: 1738'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
2. Record pressure on csg.
3. TOO H w/ rods and tbg.
4. Kill well with gel as needed. Then proceed to load wellbore with gel to a minimum of 125% capacity until wellbore is filled.
5. Proceed to load wellbore with bentonite pellets. Top is not to exceed 757'
6. TIH w/ tbg to 757'. Pump 231' C1A cement plug from 757' to 526' (7" & 9 5/8 csg shoe plug and coal show). Tag TOC
7. TOO H w/ tbg to 526'. Pump 6% bentonite gel spacer from 526' to 284'.
8. Confirm 7" csg is cemented to surface. If not TOO H w/ tbg. Free point csg and set plug 50' in/out of cut for total of 100'.
9. TOO H w/ tbg to 284'. Pump 284' C1A cement plug from 284' to surface
10. Reclaim site and set monument per WV DEP regulations.

THIS PLUG SHOULD BE EXPANDING CEMENT

SEE PLUGGING DIAGRAM

RECEIVED
Office of Oil and Gas

APR 25 2022

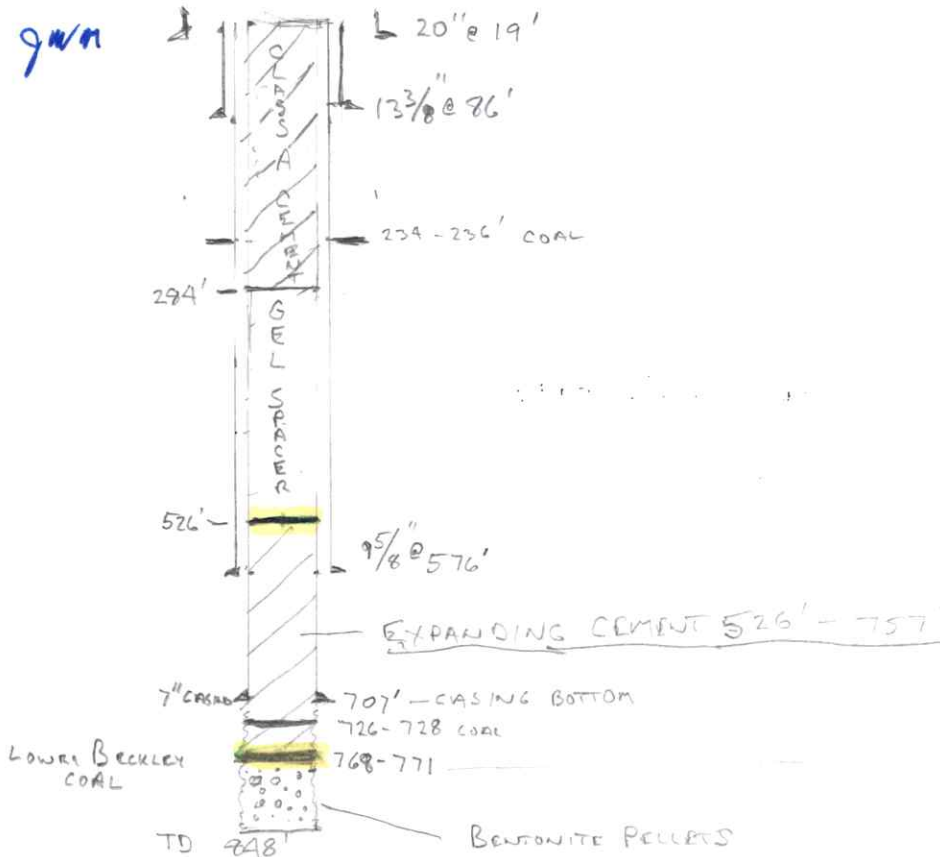
WV Department of
Environmental Protection

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

AK

FORMATIONS	TOP	BOTTOM	REMARKS
Sandstone/Shale	0	234	
Coal	234	236	
Sandstone/Shale	236	726	
Coal	726	728	
Sandstone/Shale	728	768	
Coal (Lower Beckley)	768	771	Turned Horizontal
Sandstone/Shale	771	848	

PLUGGING DIAGRAM.



RECEIVED
Office of Oil and Gas
APR 25 2022
WV Department of
Environmental Protection

47109024989

WR-35

DATE: 02/22/2006
API#: 4710902498C

State of West Virginia
Division of Environmental Production
Section of Oil and Gas
Well Operator's Report of Well Work

Farm Name Georgia Pacific Corporation Operator Well No.: WPHC-006B
LOCATION: Elevation: 1738.37 Quadrange: McGraws 7 1/2'

District: Oceana County: Wyoming
Latitude: 2860 Feet South of 37 Deg. 45 Min. 00 Sec.
Longitude: 11710 Feet West of 81 Deg. 27 Min. 30 Sec.

Company:

Penn Virginia Oil & Gas Corporation	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 2550 East Stone Drive, Suite 110 Kingsport, TN 37660	20"	19'	19'	0
Agent: Jim Burns	13 3/8"	86'	86'	12 cu ft
Inspector: Ralph Triplett	9 5/8"	576'	576'	189 cu ft
Date Permit Issued: 03/01/2005	7"	707'	707'	142 cu ft
Date Well Work Commenced:				
Date Well Work Completed: 05/13/2005				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 835				
Fresh Water Depth (ft):				
Salt Water Depth (ft):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft):				

OPEN FLOW DATA

Producing formation Lower Beckley Coal 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

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

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

Signed:

Richard Waddell
By: *Richard Waddell*
Date: *2-22-06*

RECEIVED
Office of Oil and Gas
APR 25 2002
WV Department of
Environmental Protection

RECEIVED
Office of Oil & Gas
Office of Chief
FEB 27 2005
WV Department of
Environmental Protection

WYO 2498C

4710902498P

WW-4A
Revised 6-07

RECEIVED
Office of Oil and Gas
APR 20 2022
WV Department of
Environmental Protection

1) Date: April 11, 2022
2) Operator's Well Number
WPHC-006B
3) API Well No.: 47 - 109 - 02498

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

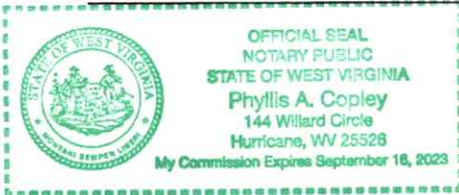
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Lyme Mountaineer Timberlands</u>	Name <u>None</u>
Address <u>23 South Main</u>	Address _____
<u>Hanover, NH 03755</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>West Virginia Mid Vol Inc.</u>
_____	Address <u>836 Euclid Avenue, Suite 302</u>
_____	<u>Lexington, KY 40502</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Lane</u>	Name <u>Prime Met Inc.</u>
<u>Pipestem, WV 25979</u>	Address <u>836 Euclid Avenue, Suite 302</u>
Telephone <u>304-382-8402</u>	<u>Lexington, KY 40502</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: Diversified Production, LLC
 By: Jeff Mast
 Its: Director Technical Services
 Address: 414 Summers Street
Charleston, WV 25301
 Telephone: 304-543-6988

Subscribed and sworn before me this 11th day of April 2022
Phyllis A. Copley Notary Public
 My Commission Expires September 16, 2023

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.

4710902498P
 47-109-02498
 WPHC-006B

7020 2450 0001 5225 1587

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee \$3.75

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

<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00

Postage \$1.76

Total \$8.56

WPHC-006A, WPHC-006B

Sent to
 Street Lyme Mountaineer Timberlands
 23 South Main
 City, State Hanover, NH 03755

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



7020 3160 0000 1694 9800

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee \$3.75

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

<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00

Postage \$1.76

Total \$8.56

WPHC-006A, WPHC-006B

Sent to
 Street West Virginia Mid Vol Inc.
 836 Euclid Avenue, Suite 302
 City, State Lexington, KY 40502

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



RECEIVED
 Office of Oil and Gas
 APR 20 2022
 WV Department of
 Environmental Protection

7020 2450 0001 5225 1594

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee \$3.75

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

<input type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$ 0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ 0.00
<input type="checkbox"/> Adult Signature Required	\$ 0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ 0.00

Postage \$1.76

Total \$8.56

WPHC-006A, WPHC-006B

Sent to
 Street Prime Met Inc.
 836 Euclid Avenue, Suite 302
 City, State Lexington, KY 40502

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



4710902498P

WW-9
(5/16)

API Number 47 - 109 - 02498
Operator's Well No. WPHC-006B

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

Operator Name Diversified Production, LLC OP Code 494524121

Watershed (HUC 10) Rockhouse Fork of Clear Fork Quadrangle McGraws

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 *JHK*

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE

If so, please describe anticipated pit waste: Produced fluid and cement returns

Jawa

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number Twin Branch 47471511)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: N/A

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

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

Additives to be used in drilling medium? N/A

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

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

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

RECEIVED
Office of Oil and Gas

APR 25 2022

WV Department of
Environmental Protection

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.

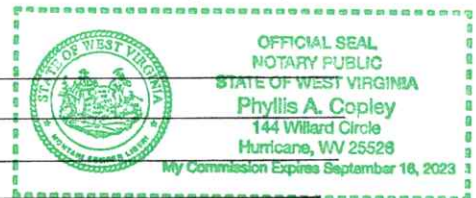
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 *JM*

Company Official (Typed Name) Jeff Mast

Company Official Title Director Technical Services



Subscribed and sworn before me this 17th day of April, 2022

Phyllis A. Copley

Notary Public

My commission expires September 16, 2023

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 605

Fertilizer type _____ 10-20-20 or equivalent

Fertilizer amount _____ lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		

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: *Greg Kennedy*

Comments: _____

RECEIVED
Office of Oil and Gas

APR 25 2022

WV Department of
Environmental Protection

Title: *Inspector* Date: *4/22/22*

Field Reviewed? () Yes () No








DIVERSIFIED
energy
100 Diversified Way
Pikeville KY, 41051

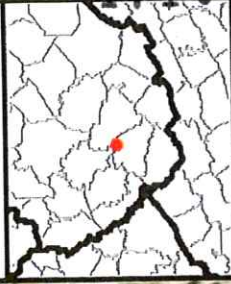
47-109-02498

Plugging Map

Legend

-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads

1 Pit
10' W
20' L
8' D
285 bbl



Well No.: 47-109-02498
 UTM83-17, Meters
 North: 456064.42
 East: 4177336.95
 Elev.: 525.94 M
 Elev.: 1725.08 Ft

WW-7
8-30-06



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

API: 4710902498 WELL NO.: WPHC-006B
 FARM NAME: The Forest Land Group
 RESPONSIBLE PARTY NAME: Diversified Production LLC
 COUNTY: Wyoming DISTRICT: Oceana
 QUADRANGLE: McGraws, WV
 SURFACE OWNER: Lyme Mountaineer Timberlands
 ROYALTY OWNER: DP Bluegrass LLC
 UTM GPS NORTHING: 4177336.95
 UTM GPS EASTING: 456064.42 GPS ELEVATION: 1725.08'

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 ____

- 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

Digitally signed by Austin Suttler
Date: 2022.04.08 12:25:18
-04'00'

Sr. Proj. Manager
Title

4/8/2022
Date

RECEIVED
Office of Oil and Gas
APR 25 2022
WV Department of
Environmental Protection

109-01139
✱



Rockhouse Fork

109-01329
●





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

ATTN 4710902498 plugging permit has been issued.

1 message


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

Mon, Jul 25, 2022 at 3:18 PM

To: Wade A Stansberry <wade.a.stansberry@wv.gov>, Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Phyllis Copley <pcopley@dgoc.com>, asutler@dgoc.com, mecook2@assessor.state.wv.us, Gary L Kennedy <gary.l.kennedy@wv.gov>

To whom it may concern this plugging permit has been issued. 4710902498

James Kennedy
WVDEP OOG

 **4710902498.pdf**
2885K