



---

west virginia department of environmental protection

---

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, July 14, 2022

WELL WORK PLUGGING PERMIT  
Coal Bed Methane Well Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for LCHC-008A  
47-109-02493-00-00

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: LCHC-008A  
Farm Name: POCAHONTAS LAND CORP.  
U.S. WELL NUMBER: 47-109-02493-00-00  
Coal Bed Methane Well Plugging  
Date Issued: 7/14/2022

# 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.

4710902493P

- 1) Date April 25, 2022
- 2) Operator's Well No. LCHC-008A
- 3) API Well No. 47-10107 (1) - 02493

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  / Liquid injection  / Waste disposal  /  
(If "Gas, Production  or Underground storage  ) Deep  / Shallow
- 5) Location: Elevation 2748.93 ft Watershed Rockhouse Fork of Clear Fork  
District Oceana County Wyoming Quadrangle Arnett
- 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 Name Gary Kennedy 9) Plugging Contractor 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 AN ACCESS WELL FOR A PINNATE HORIZONTAL CBM WELL.

See Attached

RECEIVED  
Office of Oil and Gas  
MAY 03 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  Date 4/29/22

07/15/2022

**Plugging Prognosis**

API #: 4710902493

**Casing Schedule:**

13 3/8" @ 41 (CTS w/ 12 cu ft)

9 5/8" @ 308' not cemented ?

7" @ 1588' (CTS w/ 384 cu ft) ✓

JNM

TD listed as 1,650'

Estimated kickoff @ 1,600'

- B Hole
  - 30,500' x 4.75" Hole ID = 3,750 Cu ft = 835 BBL w/ 125% excess

Completion – Pilot Well for CBM production, projected depth of coal seam 1,600' to 1,650'. Unknown if well has bridge plug in it.

Fresh Water: None listed

Salt Water: None listed

Gas Shows: None listed

Oil Shows: None listed

Coal: None listed

Elevation: 2,759'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
2. Record pressure on csg.
3. Tag TD and record TD.
4. Kill well as needed with 6% bentonite gel.
5. Bridge lateral with bentonite pellets. Top not to exceed 1638'
6. TIH w/ tbg to 1638'. Pump 100' C1A cement plug from **1638' to 1538' (7" csg shoe plug)**. Tag TOC
7. TOOH w/ tbg to 1538'. Pump 6% bentonite gel spacer from 1538' to 358'.
8. Confirm 7" csg is cemented to surface. If not TOOH w/ tbg. Free point csg and set plug 50' in/out of cut for total of 100'. **ADD GEL IF NEEDED.**
9. TOOH w/ tbg to 358'. Pump **358'** C1A cement plug from **358' to surface**
10. Reclaim site and set monument per WV DEP regulations.
11. **Note: The uncased 4 3/4" wellbore from curve to lateral will be filled w/ gel/cement from the production wells (47-109-02494) when plugging it.**

JNM

IF 7" CASING WAS CEMENTED TO SURFACE, THERE SHOULD BE CEMENT BETWEEN THE 7" & 9 5/8" CASING.

IF 9 5/8" OPEN AT SURFACE, GROUT FROM SURFACE.

JNM

RECEIVED  
Office of Oil and Gas

MAY 03 2022

WV Department of  
Environmental Protection

07/15/2022

4710902493P

WR-35

DATE: 02/22/2006  
API#: 4710902493C

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

Farm Name Pocahontas Land Corporation Operator Well No.: LCHC-008A  
LOCATION: Elevation: 2761.8 Quadrange: Arnett 7 1/2'

District: Oceana County: Wyoming  
Latitude: 13930 Feet South of 37 Deg. 47 Min. 30 Sec.  
Longitude: 10190 Feet West of 81 Deg. 27 Min. 30 Sec.

Company:	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<b>Penn Virginia Oil &amp; Gas Corporation</b>				
Address: 2550 East Stone Drive, Suite 110	13 3/8"	41'	41'	12 cu ft
Kingsport, TN 37660	9 5/8"	308'	308'	0
Agent: Jim Burns	7"	1588'	1588'	384 cu ft
Inspector: Ralph Triplett				
Date Permit Issued: 03/01/2005				
Date Well Work Commenced:				
Date Well Work Completed: 04/29/2005				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1,650				
Fresh Water Depth (ft):				
Salt Water Depth (ft):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft):				

RECEIVED  
Office of Oil & Gas  
Office of Chief  
FEB 27 2006  
WV Department of  
Environmental Protection

OPEN FLOW DATA

Producing formation No production from this well 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 & Gas  
Office of Chief  
FEB 27 2006  
WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas  
APR 27 2022  
WV Department of  
Environmental Protection

07/15/2022

WYO 2093 C

4710902493P

FORM WR-35R  
(REVERSE)

PERMIT #4710902493C  
WELL #: LCHC-008A

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

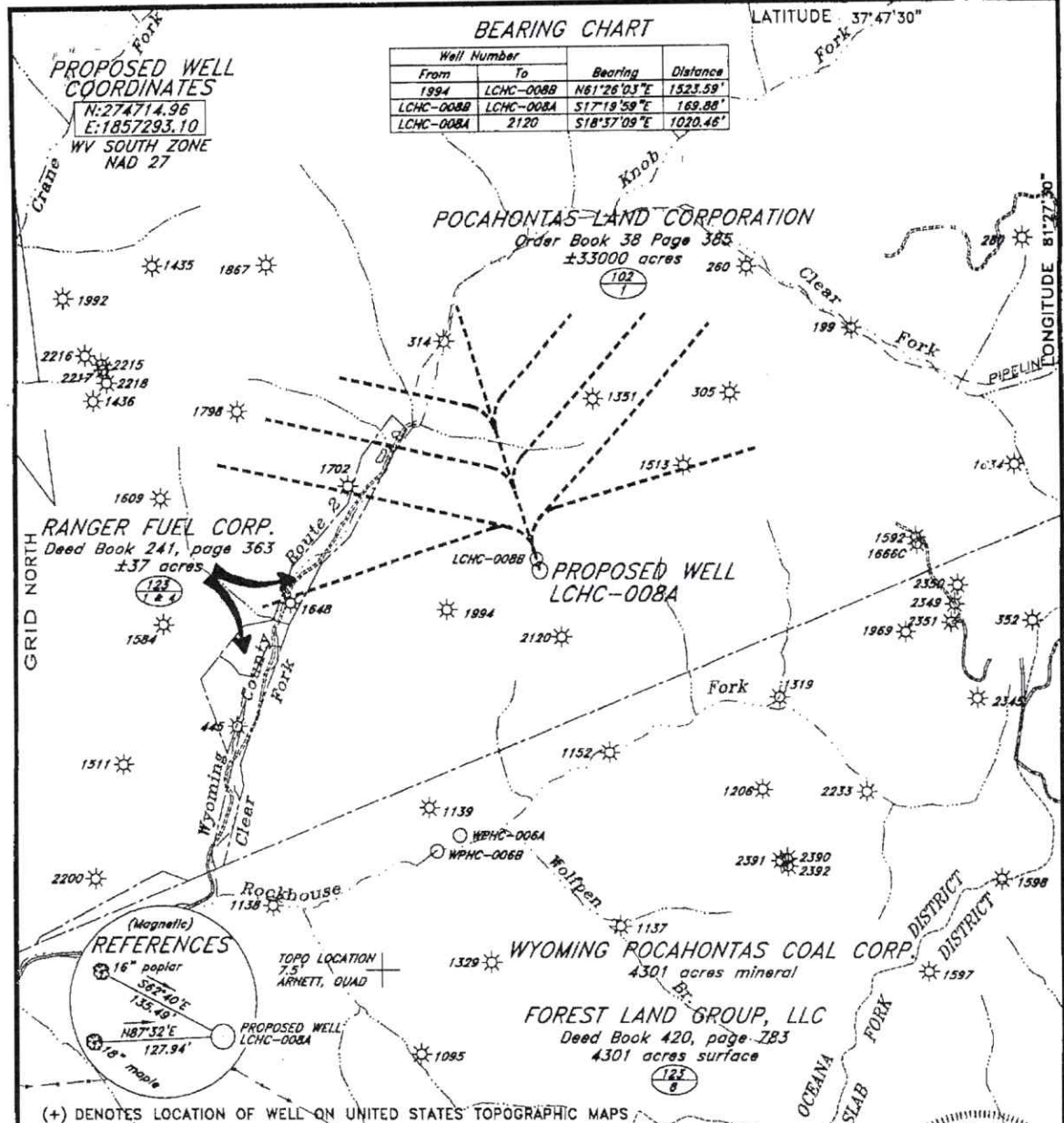
---

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sandstone/Shale/Coal	0	1891	
Coal (Lower Beckley)	1891		Turned Horizontal

07/15/2022

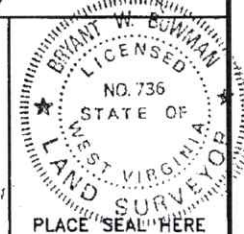
4710902493

10190'



FILE NO. 04097  
 DRAWING NO. 04097A  
 SCALE 1"=2000'  
 MINIMUM DEGREE OF ACCURACY 1:119200  
 PROVEN SOURCE OF ELEVATION GPS DISK NO. K  
 2528.22'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 (SIGNED) *Bryant W. Bowman*  
 R.P.E. L.I.S. 736



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

DATE DECEMBER 27, 2004  
 OPERATOR'S WELL NO. LCHC-008A  
 API WELL NO. 47-109-02493C  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 2761.80' WATERSHED ROCKHOUSE FORK OF CLEAR FORK  
 DISTRICT OCEANA COUNTY WYOMING  
 QUADRANGLE ARNETT, WY

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 33000±  
 OIL & GAS ROYALTY OWNER PENN VIRGINIA OIL & GAS CORPORATION LEASE ACREAGE 30000±  
 LEASE NO.

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Beakley Coals ESTIMATED DEPTH 1830

WELL OPERATOR PENN VIRGINIA OIL & GAS CORPORATION DESIGNATED AGENT MR. HARRY JEWEL  
 ADDRESS 2550 EAST STONE DRIVE SUITE 110 ADDRESS PO BOX 460

RECEIVED  
 Office of Oil and Gas  
 APR 27 2022

WV Department of Environmental Protection

WYD  
 PERMIT 2493C

07/15/2022

WW-4A  
Revised 6-07

1) Date: April 25, 2022  
2) Operator's Well Number  
LCHC-008A  
3) API Well No.: 47 - 109 - 02493

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

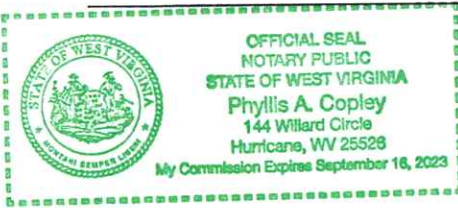
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pocahontas Land</u>	Name <u>None</u>
Address <u>P.O. Box 1517</u>	Address _____
<u>Bluefield, WV 24701</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>West Virginia Mid Vol Inc.</u>
_____	Address <u>836 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>Consol Mining Company LLC</u>
<u>Pipestem, WV 25979</u>	Address <u>CNX Center Suite 100, 1000 Consol Energy Drive</u>
Telephone <u>304-382-8402</u>	<u>Cannonsburg, PA 15317</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: [Signature] Jeff Mast  
 Its: Director Technical Services  
 Address 414 Summers Strret  
Charleston, WV 25301  
 Telephone 304-543-6988

Subscribed and sworn before me this 25<sup>th</sup> day of April, 2022  
Phyllis A. Copley Notary Public  
 My Commission Expires September 16, 2023

RECEIVED  
Office of Oil and Gas  
MAY 03 2022

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).



4710902493P

LCNC-008A

47-109-02493

7020 2450 0000 5225 2072

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Bluefield, WV 24701

**OFFICIAL USE**

Certified Mail Fee	\$3.75	
		\$3.05
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<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	\$1.96	
Total	\$8.76	

**LCHC-008A, LCHC-008B**

Sent Pocahontas Land  
 Street P.O. Box 1517  
 City, Bluefield, WV 24701

PS Instructions

0523 04  
 APR 25 2022  
 04/25/2022

7020 2450 0000 5225 2072

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Lexington, KY 40502

**OFFICIAL USE**

Certified Mail Fee	\$3.75	
		\$3.05
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<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	\$2.16	
Total	\$8.96	

**LCHC-008A, LCHC-008B**

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

PS Instructions

0523 04  
 APR 25 2022  
 04/25/2022

7020 2450 0000 5225 2072

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

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

Cannonsburg, PA 15317

**OFFICIAL USE**

Certified Mail Fee	\$3.75	
		\$3.05
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<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	\$1.96	
Total	\$8.76	

**LCHC-008A, LCHC-008B**

Sent Consol Mining Co., LLC  
 Street CNX Center, Suite 100  
 City, 1000 Consol Energy Drive  
 Cannonsburg, PA 15317

PS Instructions

0523 04  
 APR 25 2022  
 04/25/2022

RECEIVED  
Office of Oil and Gas  
APR 27 2022  
WV Department of  
Environmental Protection

07/15/2022



4710902493P

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

Lime 3 Tons/acre or to correct to pH 6.05

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: [Signature]

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

Title: Inspector

Date: 4/29/22

Field Reviewed? ( ) Yes ( ) No

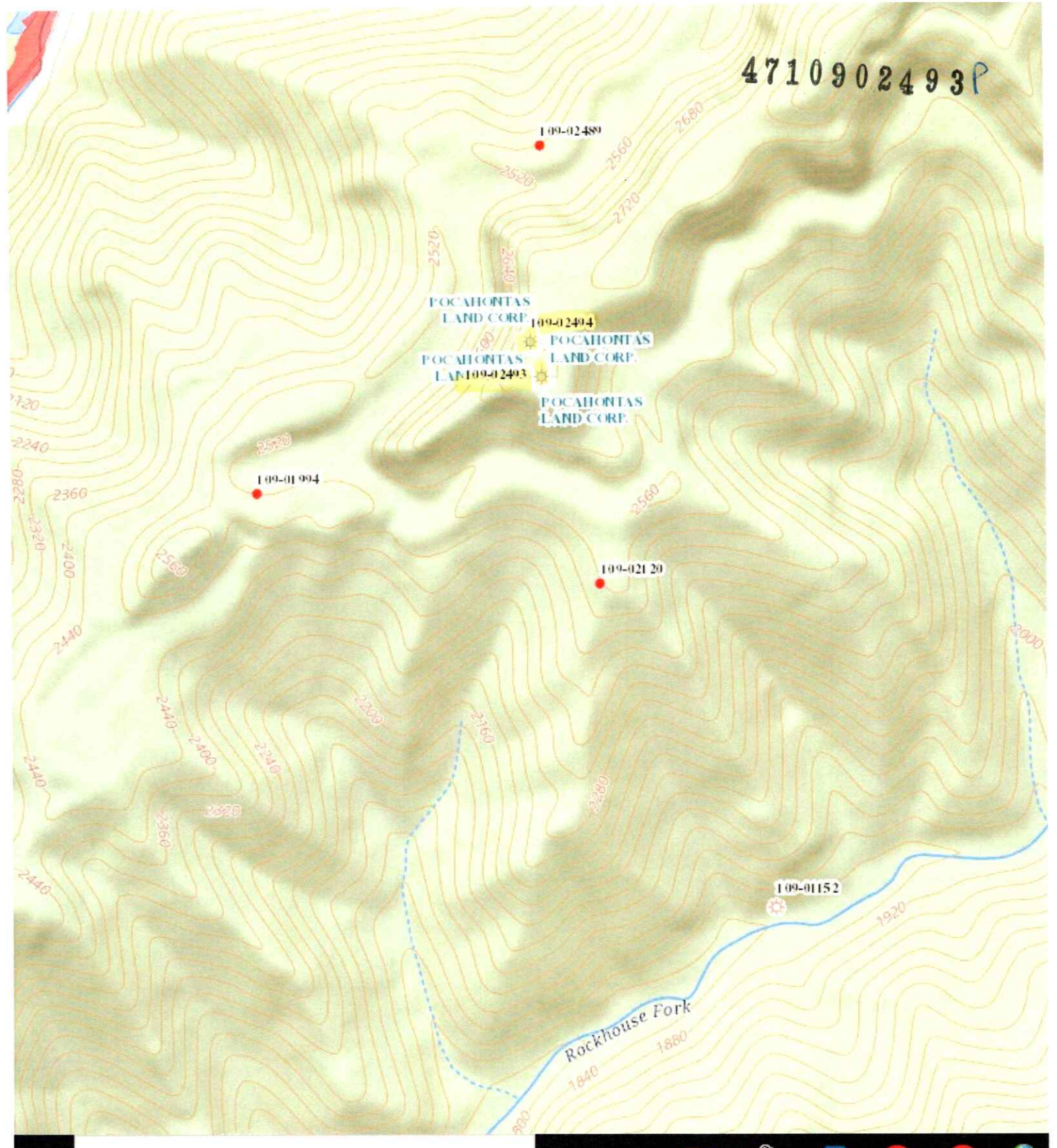
RECEIVED  
Office of Oil and Gas

MAY 03 2022

WV Department of  
Environmental Protection

07/15/2022

4710902493P





WW-7  
8-30-06



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

API: 4710902493 WELL NO.: LCHC-008A  
 FARM NAME: Pocahontas Land Corp  
 RESPONSIBLE PARTY NAME: Diversified Production LLC  
 COUNTY: Wyoming DISTRICT: Oceana  
 QUADRANGLE: Arnett, WV  
 SURFACE OWNER: Pocahontas Land  
 ROYALTY OWNER: DP Bluegrass LLC  
 UTM GPS NORTHING: 4178582.2  
 UTM GPS EASTING: 456534.63 GPS ELEVATION: 2748.93

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

Digitally signed by Austin Sutler  
Date: 2022.04.08 11:38:14  
-04'00'

Sr. Proj Manager

Title

4/8/2022

Date

RECEIVED  
Office of Oil and Gas

APR 27 2022

WV Department of  
Environmental Protection

07/15/2022



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

## ATTN plugging wells being issued 4710902493, and 10902494

2 messages

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


Thu, Jul 14, 2022 at 2:24 PM


To: asutler@dgoc.com, Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Gary L Kennedy <gary.l.kennedy@wv.gov>, brad.maddox@nextvlenergy.com, Wade A Stansberry <wade.a.stansberry@wv.gov>

To whom it may concern these plugging permits have been issued 4710902493, and 10902494. Any questions please let me know.

James Kennedy  
WVDEP OOG

### 3 attachments

 **4710902493.pdf**  
2961K

 **4710902494.pdf**  
3055K

 **IR-8 Blank.pdf**  
237K


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


Thu, Jul 14, 2022 at 2:57 PM

To: mecook2@assessor.state.wv.us

[Quoted text hidden]

### 3 attachments

 **4710902493.pdf**  
2961K

 **4710902494.pdf**  
3055K

 **IR-8 Blank.pdf**  
237K

07/15/2022