



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

Wednesday, October 26, 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-007C
47-109-02406-00-00

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-007C
Farm Name: POCAHONTAS LAND CORP.
U.S. WELL NUMBER: 47-109-02406-00-00
Coal Bed Methane Well Plugging
Date Issued: 10/26/2022

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.

1) Date April 26, 2022
2) Operator's
Well No. LCHC-007C
3) API Well No. 47-109 - 02406

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 2433.24 ft Watershed 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 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:

See Attached

THIS IS A HORIZONTAL CBM PRODUCTION
WELL DRILLED AS A PINNATE SYSTEM.

USE EXPANDING CEMENT.

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Office of Oil and Gas

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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

Plugging Prognosis

API #: 4710902406

Casing Schedule:

13 3/8" @ 32' CTS

9 5/8" @ 308'

7" @ 1553' CTS

TD listed as 1,642'

Estimated lateral from plat

- C Hole (109-02406)
 - 12,500' x 4.75" Hole ID = 1,538 Cu ft = 342 BBL w/ 125% excess

Fresh Water: None listed

Salt Water: None listed

Gas Shows: None listed

Oil Shows: None listed

Coal: None Listed

Elevation: 2440'

*USE EXPANDING CEMENT.
JWM*

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
2. Record pressure on csg.
3. TOOH 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 1603'
6. TIH w/ tbg to 1603'. Pump 100' C1A cement plug from **1603' to 1503' (7" csg shoe plug)**. Tag TOC
7. TOOH w/ tbg to 1503'. Pump 6% bentonite gel spacer from 1503' 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'.
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.

JJK

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WR-35

DATE: 12/20/2005
API#: 4710902406C

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-007C
LOCATION: Elevation: 2440.54 Quadrangle: Arnett 7 1/2'

District: Oceana County: Wyoming
Latitude: 6250 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude: 6290 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	13 3/8"	32'	32'	18 cu ft
Kingsport, TN 37660	9 5/8"	308'	308'	0
Agent: Harry Jewell	7"	1553'	1553'	378 cu ft
Inspector: Ralph Triplett				
Date Permit Issued: 09/23/2004				
Date Well Work Commenced: 09/30/2004				
Date Well Work Completed: 04/29/2005				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1,642				
Fresh Water Depth (ft):				
NA				
Salt Water Depth (ft):				
NA				
Is coal being mined in area (N/Y)?				
Coal Depths (ft):			<i>Handwritten mark</i>	

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: Michael Stumper
By: Michael Stumper
Date: 12/21/2005

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Office of Chief
JAN 23 2006
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WYO 2106C

10/28/2022

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

4710902406C



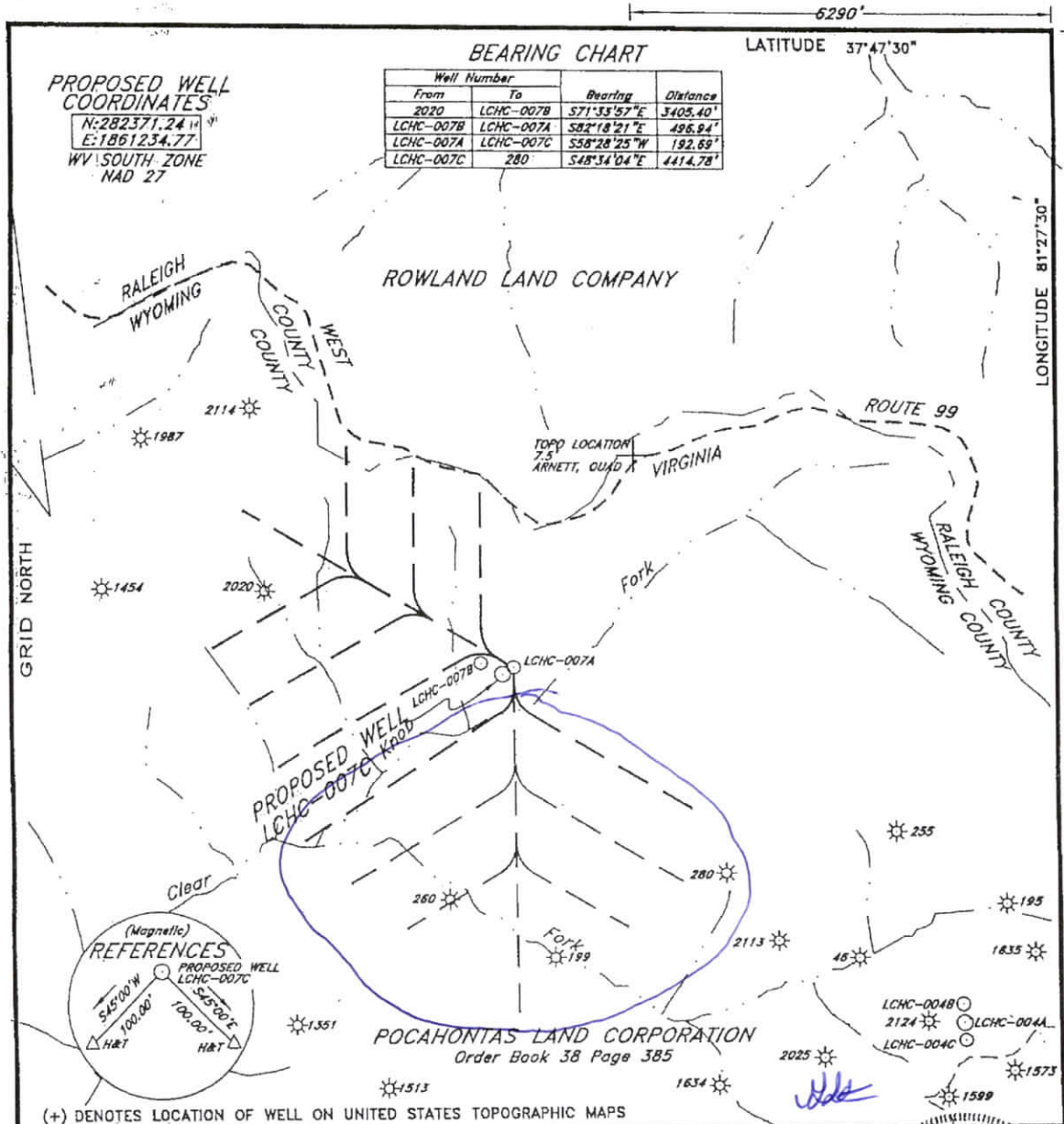
<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sandstone/Shale	0	458	
Coal	458	460	
Sandstone/Shale	460	648	
Coal	648	650	
Sandstone/Shale	650	1576	
Coal (Lower Beckley)	1576	1579	
Sandstone/Shale	1579	1642	

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10/28/2022



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1:40000
 PROVEN SOURCE OF ELEVATION GPS DISK NO. L
 2735.48'

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) [Signature]
 R.P.E. _____ L.L.S. 736



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

DATE JULY 27, 2004 Office of Oil and Gas

OPERATOR'S WELL NO. LCHC-007C

API WELL NO. 47-109-02406

STATE COUNTY PERMIT MAY 03 2022

WV Department of Environmental Protection

WY 0

2406

PERMIT

FORM WW-6

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

LOCATION: ELEVATION 2440.54' WATERSHED CLEAR FORK
 DISTRICT OCEANA COUNTY WYOMING
 QUADRANGLE ARNETT, WY

SURFACE OWNER POCAHONTAS LAND CORPORATION ACREAGE 30000±
 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 Beckley Coal ESTIMATED DEPTH 1625

WELL OPERATOR PENN VIRGINIA OIL & GAS CORPORATION DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS 2550 EAST STONE DRIVE SUITE 110 ADDRESS PO BOX 460
 KINGSFORT, TN 37860 RAVENCLIFF, WY 25913

10/28/2022

WW-4A
Revised 6-07

1) Date: April 26, 2022
2) Operator's Well Number
LCHC-007C
3) API Well No.: 47 - 109 - 02406

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

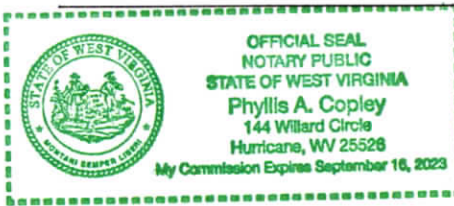
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Pocahontas Surface Interest</u>	Name <u>None</u>
Address <u>P.O. Box 1517</u>	Address _____
<u>Bluefield, WV 24701</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pocahontas Royalties LLC</u>
_____	Address <u>P.O. Box 1517</u>
_____	<u>Bluefield, WV 24701</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: Jeff Mast
 Title: Director Technical Services
 Address 414 Summers Street
Charleston, WV 25301
 Telephone 304-543-6988

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Office of Oil and Gas
MAY 03 2022
WV Department of
Environmental Protection

Subscribed and sworn before me this 26th 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.

4710902406P

47-109-02406
LCNC-007C

7020 2450 0001 5225 1990

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<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	\$2.36
Total	\$9.16

Postmark Here
0523 04
04/26/2022

LCHC-007A, LCHC-007B, LCHC-007C

Pocahontas Surface Interest & Royalties
P.O. Box 1517
Bluefield, WV 24701

PS Form 3800, April 2019

7020 2450 0001 5225 2003

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<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 P	\$9.01

Postmark Here
0523 04
04/26/2022

LCHC-007A, LCHC-007B, LCHC-007C

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

PS Form 3800, April 2019

WW-9
(5/16)

API Number 47 - 109 - 02406
Operator's Well No. LCHC-007C

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) Clear Fork Quadrangle Arnett

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: Produced fluid and cement returns

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

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.

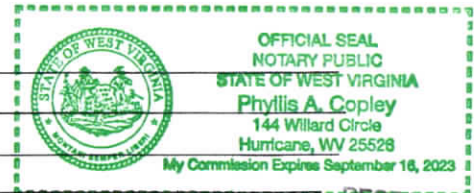
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

Company Official (Typed Name) Jeff Mast

Company Official Title Director Technical Services



Subscribed and sworn before me this 26th day of April, 2022

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

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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
Red Fescue	40
Alsike	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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: _____

Title: *Inspector*

Date: *4/29/22*

Field Reviewed? () Yes () No

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MAY 03 2022
WV Department of
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10/28/2022

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4710902406 WELL NO.: 107 C
 FARM NAME: Pocahontas Land Corporation
 RESPONSIBLE PARTY NAME: Diversified Production LLC
 COUNTY: Wyoming DISTRICT: Oceana
 QUADRANGLE: Arnett, WV
 SURFACE OWNER: Pocahontas Surface Interest
 ROYALTY OWNER: Summit Nat Resources/DP Bluegrass LLC
 UTM GPS NORTHING: 4180914.49
 UTM GPS EASTING: 457733.22 GPS ELEVATION: 2433.24'

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.

Austin Sutler

Digitally signed by Austin Sutler
Date: 2022.04.14 15:30:58
-04'00'

Signature

Sr. Proj. Manager

Title

4/14/2022

Date

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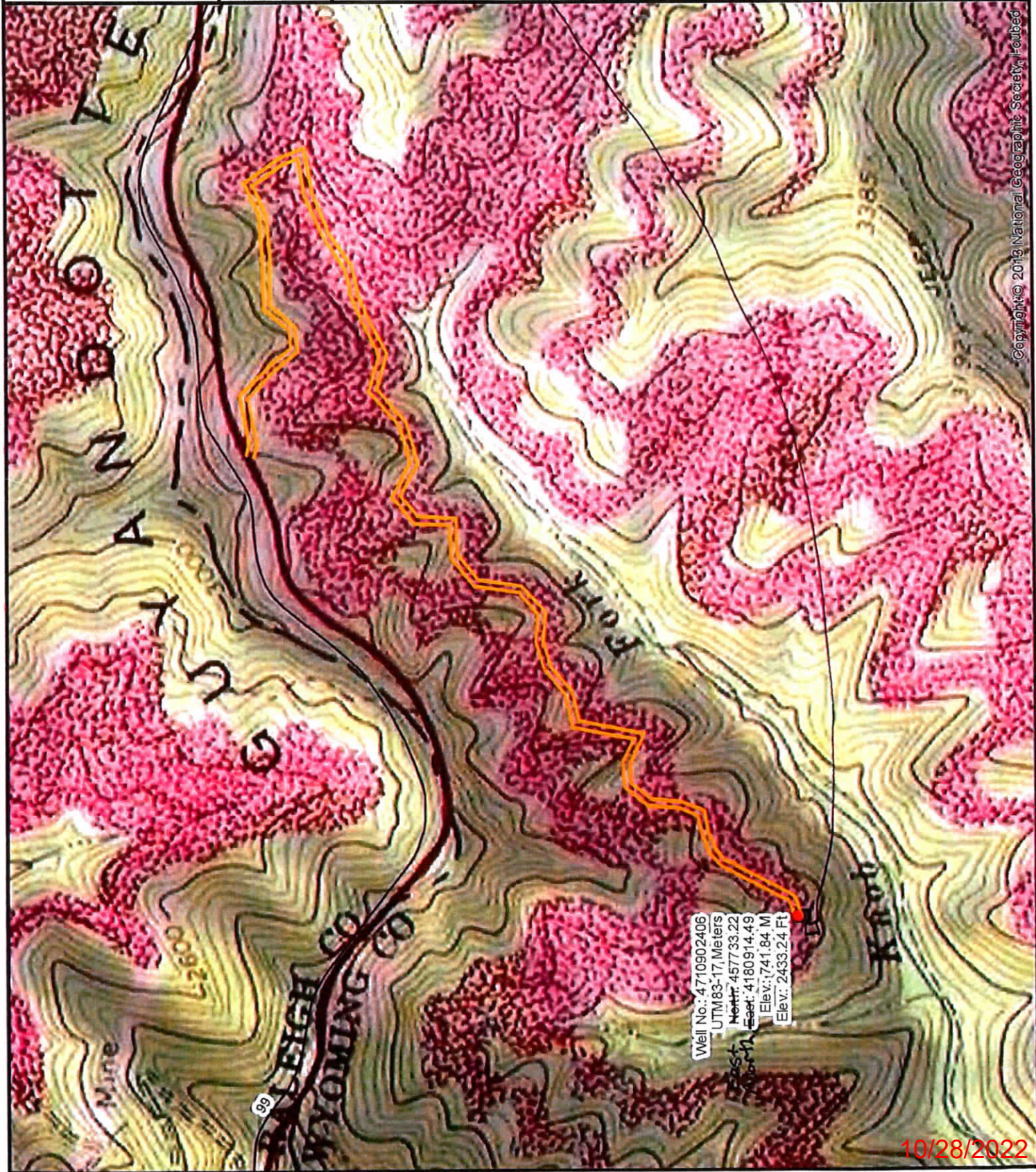
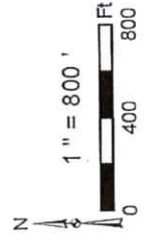
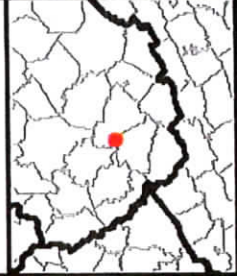
DIVERSIFIED
energy
100 Diversified Way
Pikeville KY, 41051

47-109-02406
Plugging Map

Legend

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

Pit
 10' W
 20' L
 8' D
 285bb1



Well No.: 4710902406
 UTM83-17, Meters
 North: 457733.22
 East: 4180914.49
 Elev.: 741.84 M
 Elev.: 2433.24 Ft

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10/28/2022



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

plugging permit issued for 471092406, 2405, and 2404

1 message

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

Wed, Oct 26, 2022 at 2:39 PM


To: Austin Sutler <asutler@dgoc.com>, Phyllis Copley <pcopley@dgoc.com>, Gary L Kennedy <gary.l.kennedy@wv.gov>, mecook2@assessor.state.wv.us


To whom it may concern, plugging permits have been issued for 471092406, 2405, and 2404.


James Kennedy


WVDEP OOG


6 attachments


 **4710902406.pdf**
3104K

 **IR-8 4710902406.pdf**
12K

 **4710902405.pdf**
2780K

 **IR-8 4710902405.pdf**
12K

 **4710902404.pdf**
3165K

 **IR-8 4710902404.pdf**
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10/28/2022