



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

Friday, October 28, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for ROWLAND 16
47-081-01128-00-00

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: ROWLAND 16
Farm Name: ROWLAND LAND CO. LTD.
U.S. WELL NUMBER: 47-081-01128-00-00
Vertical Plugging
Date Issued:

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.

4708101128P

WW-4B
Rev. 2/01

1) Date February 1, 2022
2) Operator's
Well No. Rowland Land 16
3) API Well No. 47-081 - 01128

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 X or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 2360 feet Watershed Workman Creek of Clear Fork of the Big Coal River
District Clear Fork County Raleigh Quadrangle Dorothy

6) Well Operator Diversified Production, LLC 7) Designated Agent Charles Shafer
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name Next LVL Energy
Address 66 Old Church Lane Address 1951 Pleasantview Ridge Road
Pipestem, WV 25979 Ravenswood, WV 26164

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

See Attached

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Office of Oil and Gas
OCT 06 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 10/4/22

10/28/2022

Plugging Prognosis

API #: 4708101128

West Virginia, Raleigh Co.

Lat/Long: 37.87717431, -81.37747829

Nearest ER: Raleigh General Emergency Room - 1710 Harper Rd, Beckley, WV 25801

Casing Schedule:

7" @ 924' (cemented to Surface with 145 sx of cmt)

4 ½" @ 3613' (cemented to Surface with 270 sx of cmt)

TD @ 3613'

Completion – 3326'-3464'; 2908'-3136'; 2682'-2687'; 2388'-2393'

Fresh Water: None listed

Salt Water: None listed

Gas Shows: 3326'-3464'; 2908'-3136'; 2682'-2687'; 2388'-2393'

Oil Shows: None listed

Coal: 65'-68'; 265'-267'; 325'-328'

Elevation: 2369'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. Run in to depth @ 3464'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 238' C1A cement plug from **3464' to 3226' (Weir Completion plug)** Tag TOC. Top off as needed.
5. TOOH w/ tbg to 3226'. Pump 6% bentonite gel from 3226' to 3136'.
6. TOOH w/ tbg to 3136'. Pump 328' C1A cement plug from **3136' to 2808' (Big Lime Completion plug)**
7. TOOH w/ tbg to 2808'. Pump 6% bentonite gel from 2808' to 2687'.
8. TOOH w/ tbg to 2687'. Pump 105' C1A cement plug from **2687' to 2582' (Lower Maxton Completion plug)**
9. TOOH w/ tbg to 2582'. Pump 6% bentonite gel from 2582' to 2393'.
10. TOOH w/ tbg to 2393'. Pump 124' C1A cement plug from **2393' to 2269' (Upper Maxton Completion and elevation plug)**
11. TOOH w/ tbg to 2269'. Pump 6% bentonite gel from 2269' to 974'.
12. TOOH w/ tbg to 974'. Pump 100' C1A cement plug from **974' to 874' (7" csg shoe depth)**.
13. TOOH w/ tbg to 874'. Pump 6% bentonite gel from 874' to 378'.
14. TOOH w/ tbg to 378'. Pump 378' C1A cement plug from **378' to surface. (Cover all coal shows and surface plug)**
15. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

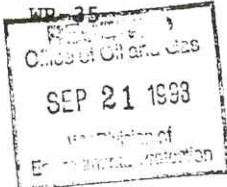
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WV Department of
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10/28/2022

4708101123P



30-Apr-98
API # 47- 81-01128

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Rowland Land Co. Ltd Operator Well No.: Rowland #16

LOCATION: Elevation: 2,369.00 Quadrangle: DOROTHY

District: CLEAR FORK County: RALEIGH
Latitude: 14350 Feet South of 37 Deg. 55Min. 0 Sec.
Longitude 760 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. BOX 1248
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON
Permit Issued: 04/30/98
Well work Commenced: 5/11/98
Well work Completed: 5/27/98
Verbal Plugging
Permission granted on: N/A
Rotary Cable _____ Rig
Total Depth (feet) 3636'
Fresh water depths (ft) _____
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	20'		
7"	924'	924'	145 sks
4 1/2"	3613'	3613'	270 sks

Is coal being mined in area (Y/N)?
Coal Depths (ft): 65', 265', 325'

OPEN FLOW DATA

Weir
Producing formation Big Lime Pay zone depth (ft) 3326-3464 / 2908-3136'
Gas: Initial open flow 189 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 1,476 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 23 Hours
Static rock Pressure 615 psig (surface pressure) after 168 Hours

Lower Maxton Pay zone depth (ft) 2682-2687' / 2388-2393'
Upper Maxton
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

* Commingled

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.

For: Larry J. Cavallo
DOMINION APPALACHIAN DEVELOPMENT, INC.

By: Larry J. Cavallo; Manager of Engineering
Date: 9/14/98

Handwritten signature
RAL 1128

4708101128P

4	STAGE(S)	75Q+ 28% HCL	FRAC	DATE	5/27/98	
ZONES	PERFS		HOLES	BBL	BP	ISIP
Weir	3326-3464		14	366	1590	1461
Big Lime	2908-3136		20	71 (28%)	1260	1500
Lower Maxton	2682-2687		12	336	2290	1920
Upper Maxton	2388-2393		15	331	1795	1305

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
OVERBURDEN			0	5	
SANDSTONE			5	30	
SANDY SHALE			30	65	
COAL			65	68	
SANDY SHALE			68	265	
COAL			265	267	
SANDY SHALE			267	325	
COAL			325	328	
SANDY SHALE			328	700	
SANDSTONE			700	1900	
SANDY SHALE			1900	2030	
RAVENCLIFF			2030	2100	
SANDY SHALE			2100	2280	
SANDY SHALE			2280	2360	
SANDSTONE/MID MAX			2360	2420	
SANDY SHALE			2420	2650	
SANDSTONE/LOWER MAX			2650	2735	
SANDY SHALE			2735	2745	
BIG LIME			2745	3190	
BIG INJUN			3190	3220	
SANDY SHALE			3220	3290	
SANSTONE/Upper			3290	3360	
SANDY SHALE			3360	3450	
LOWER WEIR			3450	3490	
SANDY SHALE			3490	3636	
TD			3636		

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Office of Oil and Gas

OCT 06 2022

WV Department of
Environmental Protection

10/28/2022

WW-4A
Revised 6-07

1) Date: September 6, 2022
2) Operator's Well Number
Rowland Land 16
3) API Well No.: 47 - 081 - 01128

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>Rowland Land Company</u>	Name <u>Republic Energy, LLC</u>
Address <u>405 Capital Street, Suite 609</u> <u>Charleston, WV 25301</u>	Address <u>P.O. Box 69</u> <u>Pax, WV 25904</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Rowland Land Company, LLC</u>
	Address <u>405 Capitol Street, Suite 609</u> <u>Charleston, WV 25301</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Road</u> <u>Pipestem, WV 25979</u>	Name <u>Black King Mine Development Company</u>
Telephone <u>304-382-8402</u>	Address <u>P.O. Box 261</u> <u>Julian, WV 25529</u>

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

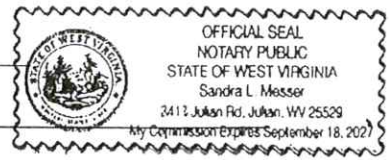
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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: Austin Suttler *Austin Suttler*
 Its: Asset Retirement Manager
 Address 414 Summers Street
Charleston, WV 25301
 Telephone 304-419-2562

Subscribed and sworn before me this 8th day of September 2022
Sandra L. Messer Notary Public
 My Commission Expires September 18, 2027



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.

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10/28/2022

47 0 8 1 0 1 1 2 8 p
 Rowland Land 16
 47-081-01128

7020 3160 0000 1694 9176

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OFFICIAL USE

Certified Mail Fee	\$4.00	0523
Extra Services & Fees (check box, add fee as appropriate)	\$3.25	03
<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	\$1.92	
Total	\$9.17	09/08/2022

Sent to: Rowland Land 16 & 31

Street: Republic Energy, LLC
 P.O. Box 69
 Pax, WV 25904

PS Instructions

7020 3160 0000 1694 9183

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Julian, WV 25529

OFFICIAL USE

Certified Mail Fee	\$4.00	0523
Extra Services & Fees (check box, add fee as appropriate)	\$3.25	03
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Postage	\$1.92	
Total	\$9.17	09/08/2022

Sent to: Rowland Land 16 & 31

Street: Black King Mine Development Co.
 P.O. Box 261
 Julian, WV 25529

PS Instructions

7020 3160 0000 1694 9169

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OFFICIAL USE

Certified Mail Fee	\$4.00	0523
Extra Services & Fees (check box, add fee as appropriate)	\$3.25	03
<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	\$9.47	09/08/2022

Sent to: Rowland Land 16 & 31

Street: Rowland Land Company
 405 Capital Street, Suite 609
 Charleston, WV 25301

PS Instructions

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 Office of Oil and Gas

SEP 9 2022

WV Department of
 Environmental Protection

10/28/2022

WW-4B

47 0 8 1 0 1 1 2 8 P

API No.	47-081-01128
Farm Name	Rowland Land Company
Well No.	Rowland Land 16

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.


This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee X/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 9/29/2022


 By: James A. Cappuccia
 Its President
Black King Mine Development Co.

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 OCT 06 2022
 WV Department of
 Environmental Protection

10/28/2022

WW-4B

47 0 8 1 0 1 1 2 8 f

API No.	47-081-01128
Farm Name	Rowland Land Company
Well No.	Rowland Land 16

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

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WAIVER

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Date: 9/29/22

Republic Energy LLC
 By: Timothy R McGrody - Timothy R McGrody
 Its Authorized Agent

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WV Department of
Environmental Protection

10/28/2022

4708101128 P

WW-9
(5/16)

API Number 47 - 081 - 01128
Operator's Well No. Rowland Land 16

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) Workman Creek of Clear Fork of the Big Coal River Quadrangle Dorothy

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 W.W-9-GPP)
- Underground Injection (UIC Permit Number Twin Branch - 2D 04701511002)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form W.W-9 for disposal location)
- Other (Explain _____)

[Handwritten signature]

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 *Austin Sutler*

Company Official (Typed Name) Austin Sutler

Company Official Title Asset Retirement Manager

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OCT 06 2022

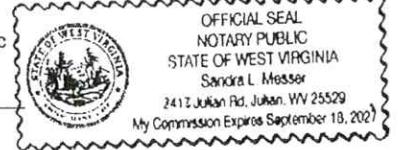
Subscribed and sworn before me this 8th day of September 2022

Sandra L. Messer

Notary Public

My commission expires September 18, 2027

WV Department of Environmental Protection



10/28/2022

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: 10/4/22

Field Reviewed? () Yes () No

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OCT 06 2022
WW Department of
Environmental Protection

10/28/2022

WW-7
8-30-06



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

API: 47-081-01128 WELL NO.: 16

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Raleigh DISTRICT: Clear Fork

QUADRANGLE: Dorothy

SURFACE OWNER: Rowland Land Company

ROYALTY OWNER: Rowland Land Company

UTM GPS NORTHING: 4192265.02

UTM GPS EASTING: 466818.32 GPS ELEVATION: 2360'

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 X : Post Processed Differential X

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.


Digitally signed by Austin Sutler
Date: 2022.09.02 13:03:12
-04'00'
Signature

Asset Retirement Manager
Title

9/2/2022
Date

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Office of Oil and Gas

OCT 06 2022

WV Department of
Environmental Protection

10/28/2022



DIVERSIFIED
energy

4708101128 P

To Whom it May Concern,

Attached is an amendment that has been submitted to Chief of the office of oil and gas of the West Virginia Department of Environmental Protection. The subject well is listed within the letter to the Chief.

Thank You.

RECEIVED
Office of Oil & Gas
SEP 21 2022
WV Department of
Environmental Protection



DIVERSIFIED
energy

4708101128P

9/16/2022

James Martin
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304)926-0450

Mr. Martin,

Due to our cement provider, LaFarge Holcem, discontinuing the manufacturing of Class A cement, DGOC will be utilizing Class L cement to plug the following well:

4708101128 Rowland Land 16

Attached is the approved variance order for use of Class L cement.

Sincerely,

Austin Sutler
Asset Retirement Manager

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Office of Oil & Gas
SEP 21 2022
WV Department of
Environmental Protection



4708101128P

west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-13
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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Promoting a healthy environment.

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- 4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

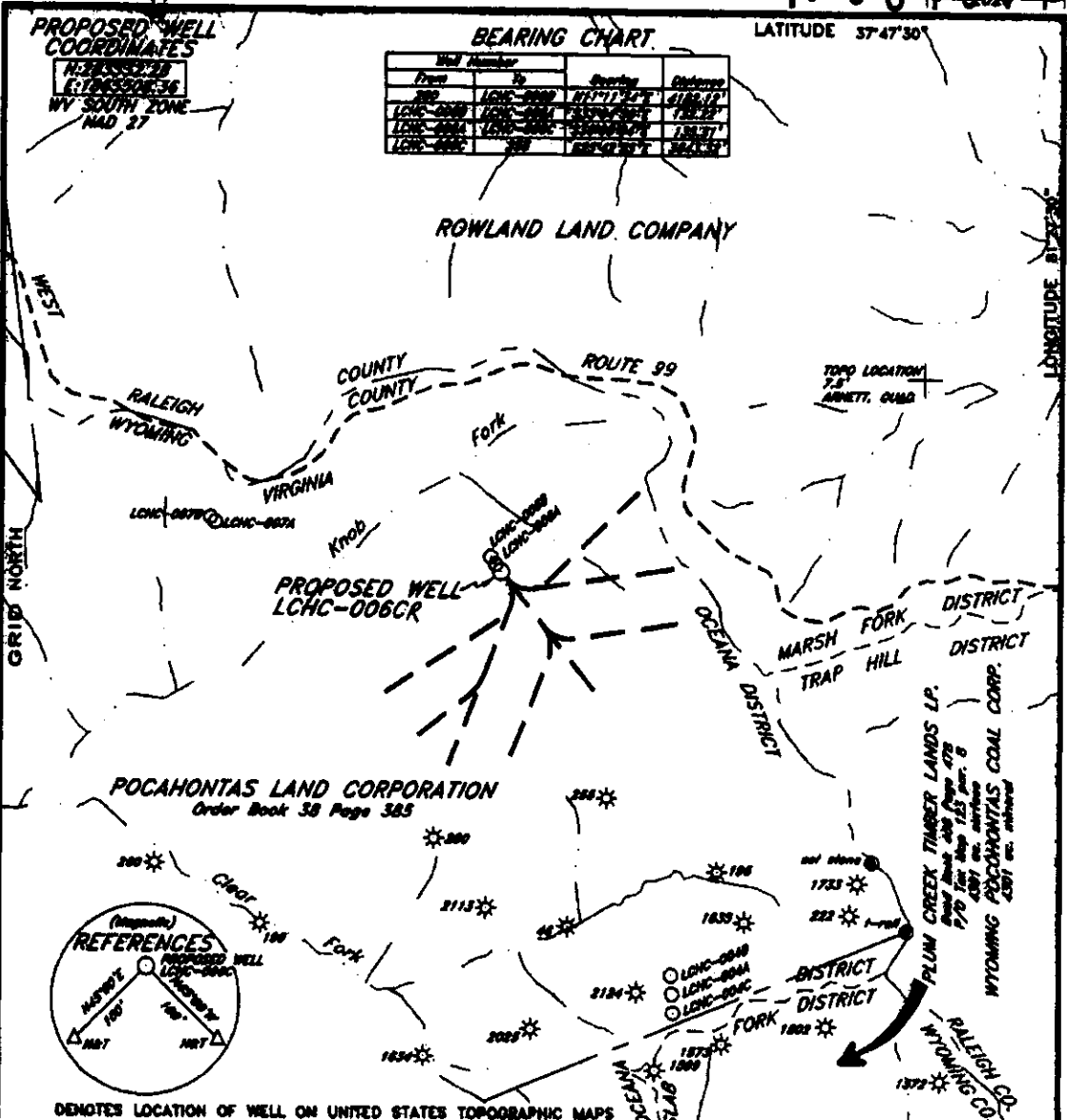
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE STATE OF WEST VIRGINIA



James Martin, Chief
Office of Oil and Gas

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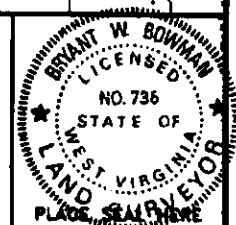
4708101128P



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=2000'
 MINIMUM DEGREE OF ACCURACY 1:50000
 PROVEN SOURCE OF ELEVATION OPS DISK NO. H
 3408.28'

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.L.S. 736



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

DATE REVISED: AUGUST 11, 2004
 OPERATOR'S WELL NO. LCNC-006CR
 API WELL NO. _____

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

LOCATION: ELEVATION 2817.44' WATERSHED Knob Fork of 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 Becka Coal ESTIMATED DEPTH 1930

WELL OPERATOR PENN VIRGINIA OIL & GAS CORPORATION DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS 2580 EAST STONE DRIVE SUITE 110 ADDRESS PO BOX 460
KINGSBURY, TN 37860 RAVENCLIFF, WV 26013

10/28/2022

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-006CR

LOCATION: Elevation: 2817.44

Quadrangle: Arnett 7 1/2'

District: Oceana County: Wyoming
Latitude: 5270 Feet South of 37 Deg. 47 Min. 30 Sec.
Longitude: 2020 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: <u>2550 East Stone Drive, Suite 110</u>	<u>20"</u>	<u>64'</u>	<u>64'</u>	<u>0</u>
<u>Kingsport, TN 37660</u>	<u>13 3/8"</u>	<u>285'</u>	<u>285'</u>	<u>106 cu ft</u>
Agent: <u>Harry Jewell</u>	<u>9 5/8"</u>	<u>992'</u>	<u>992'</u>	<u>431 cu ft</u>
Inspector: <u>Ralph Triplett</u>	<u>7"</u>	<u>1713'</u>	<u>1713'</u>	<u>295 cu ft</u>
Date Permit issued:				
Date Well Work Commenced: <u>09/15/04</u>				
Date Well Work Completed: <u>02/17/2005</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>1,959</u>				
Fresh Water Depth (ft): <u>NA</u>				
Salt Water Depth (ft): <u>NA</u>				
Is coal being mined in area (N/Y)?				
Coal Depths (ft):				

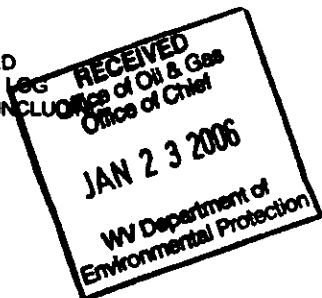
OPEN FLOW DATA

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 WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Michael Stamps
 By: Michael Stamps
 Date: 12/21/2005



47 08101128 P

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

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City, State Pax, WV 25904

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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 \$0.60

Total Postage \$7.85

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P.O. Box 261
City, State Julian, WV 25529

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WV Department of
Environmental Protection

10/28/2022



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

plugging permits issued for 4708101159, 08101128

1 message

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

Fri, Oct 28, 2022 at 2:25 PM


To: Gary L Kennedy <gary.l.kennedy@wv.gov>, Austin Sutler <asutler@dgoc.com>, Phyllis Copley <pcopley@dgoc.com>, raleigh@wvassessor.com


To whom it may concern, plugging permits have been issued for 4708101159, 08101128.


James Kennedy


WVDEP OOG

4 attachments

 **4708101159.pdf**
3524K

 **4708101128.pdf**
3617K

 **IR-8 4708101159.pdf**
12K

 **IR-8 4708101128 .pdf**
12K

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