



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

Thursday, June 17, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for ROWLAND LAND 26
47-081-01137-00-00

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 LAND 26
Farm Name: UNKNOWN
U.S. WELL NUMBER: 47-081-01137-00-00
Vertical Plugging
Date Issued: 6/17/2021

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

1) Date June 7, 2021
2) Operator's
Well No. Rowland Land 26
3) API Well No. 47-081 - 01137

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 2036 feet Watershed Miller's Fork
District Marsh Fork County Raleigh Quadrangle Arnette

6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast
Address P.O. Box 6070 Address P.O. Box 6070
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name Diversified Production, LLC (in-house rig)
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

RECEIVED
Office of Oil and Gas
JUN 16 2021
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 6/11/21

06/18/2021

PLUGGING PROGNOSIS

API# 47-081-01137

West Virginia, Raleigh County

37.8097868821441, -81.4605376572005

Nearest ER: Raleigh General Hospital: 1710 Harper Road. Beckley, WV 25801

Casing Schedule

9 5/8" csg @ 20'

7" csg @ 1226' cemented to surface w/ 150 sks

4 1/2" csg @ 3893' est TOC 610' w/ 225 sks

TD 3950'

Completion: Frac

Gordon 3778'-3788'

Big Lime 2758'-2762'

Mid Maxon 2235'-2242'

Fresh Water: None recorded**Gas Shows:** 2235', 2758', 3778'**Oil Show:** No shows**Coal:** 45', 295'**Elevation:** 2006'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.
2. Check and record pressures on csg.
3. Check TD w/ wireline.
4. TIH w/ tbg to 3788'. Kill well as needed with 6% bentonite gel. Pump 110' C1A cement plug from **3788'-3678' (Gordon gas show)**. Tag TOC. Top off as needed.
5. TOOH w/ tbg to 3678'. Pump 6% bentonite gel from 3678'-2762'.
6. TOOH w/ tbg to 2762'. Pump 104' C1A cement plug from **2762'-2658' (Big Lime gas show)**.
7. TOOH w/ tbg to 2658'. Pump 6% bentonite gel from 2658'-2242'.
8. TOOH w/ tbg to 2242'. Pump 107' C1A cement plug from **2242'-2135' (Maxon gas show)**.
9. TOOH w/ tbg to 2135'. Pump 6% bentonite gel from 2135'-2006'.
10. TOOH w/ tbg to 2006'. Pump 100' C1A cement plug from **2006'-1906' (Elevation)**.
11. TOOH w/ tbg to 1906'. Pump 6% bentonite gel from 1906'-345'. TOOH LD tbg.
12. Free point 4 1/2" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
13. TIH w/ tbg to 345'. Pump 100' C1A cement plug from **345'-245' (Coal)**.
14. TOOH w/ tbg to 245'. Pump 6% bentonite gel from 245'-100'.
15. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from **100'-0' (Coal and surface)**. TOOH LD tbg.
16. Erect monument with API#, date plugged, and company name.
17. Reclaim location and road to WV-DEP specifications.

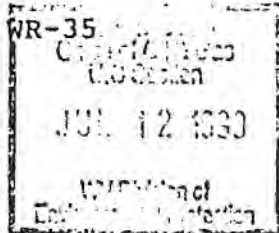


 RECEIVED
 Office of Oil and Gas

JUN 16 2021

 WV Department of
 Environmental Protection

06/18/2021



03-Jun-98
API # 47- 81-01137P

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

Reviewed JS

Well Operator's Report of Well Work

Farm name: unknown

Operator Well No.: Rowland Land 26

LOCATION: Elevation: 2,006.00 Quadrangle: ARNETT

District: MARSH FORK County: RALEIGH
Latitude: 8630 Feet South of 37 Deg. 50Min. 0 Sec.
Longitude 730 Feet West of 81 Deg. 27 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: 06/03/98
Well work Commenced: 5/10/99
Well work Completed: 5/24/99
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3950'
Fresh water depths (ft) None reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	20'	20'	
7"	1226'	1226'	150 sks
4 1/2"	3892.7'	3892.7'	225 sks

Salt water depths (ft) None reported

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 45-47, 295-296'

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3778-3788'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 343 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 6 Hours
Static rock Pressure 550 psig (surface pressure) after 24 Hours

Second producing formation Middle Maxton Pay zone depth (ft) 2235-2242'
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 12021 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.

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

By: Larry J. Cavallo; Manager of Engineering
Date: 7/7/99

06/18/2021

Well: Rowland Land 26

47-081-01137P

3	STAGE(S)	750 foam & HCL	FRAC	DATE	5/24/99
ZONES	PERFS	HOLES	B3L	BP	ISIP
GORDON	3778-3788	16	329 foam	1636	1520
BIG LIME	2758-2762	6	47.6 28% HCL	2734	2116
MIDDLE MAXTON	2235-2242	20	402 foam	2223	2058

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
OVERBURDEN			0	10	
SANDSTONE			10	45	
COAL			45	47	
SANDY SHALE			47	70	
SANDSTONE			70	130	
SHALE			130	170	
SANDY SHALE			170	195	
SANDSTONE			195	220	
SHALE			220	230	
SANDSTONE			230	285	
SANDY SHALE			285	295	
COAL			295	296	
SANDY SHALE			296	415	
SANDSTONE			415	625	
SANDY SHALE			625	800	
SANDSTONE			800	1490	
SHALE			1490	1500	
SANDSTONE			1500	1760	
SANDY SHALE			1760	1820	
RAVENCLIFF			1820	1870	
SANDY SHALE			1870	2070	
UPPER MAXTON			2070	2150	
SANDY SHALE			2150	2200	
MIDDLE MAXTON			2200	2410	
SANDY SHALE			2410	2460	
MIDDLE MAXTON			2460	2570	
SANDY SHALE			2570	2590	
LOWER MAXTON			2590	3075	
SANDY SHALE			3075	3090	
LIME			3090	3075	
BIG INJUN			3075	3260	
SANDY SHALE			3260	3575	
WEIR			3575	3580	
SHALE			3580	3745	
PEREA			3745	3790	
SHALE			3790		
GORDON				3950	
SHALE			TD	3950	

RECEIVED
Office of Oil and Gas

JUN 11 2021

WV Department of
Environmental Protection

06/18/2021

47081011379

WW-4A
Revised 6-07

1) Date: June 7, 2021
2) Operator's Well Number
Rowland Land 26
3) API Well No.: 47 - 081 - 01137

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, LLC</u>	Name <u>None</u>
Address <u>405 Capitol Street, Suite 609</u>	Address _____
<u>Charleston, WV 25301</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>
(c) Name _____	<u>Charleston, WV 25301</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Road</u>	Name <u>No Declaration</u>
<u>Pipestem, WV 25979</u>	Address _____
Telephone <u>304-382-8402</u>	_____

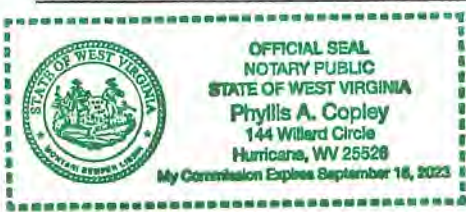
RECEIVED
Office of Oil and Gas
JUN 11 2021

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 Production
 Address P.O. Box 6070
Charleston, WV 25362
 Telephone 304-543-6988

Subscribed and sworn before me this 8th day of June, 2021
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.

06/18/2021

47-081-01137
 4708101137P
 Rowland Land LLC

7019 1640 0000 1003 2615

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

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

Charleston WV 25301

Certified Mail Fee	\$3.60	0523
Extra Services & Fees (check box, add fee to postage)	\$2.85	03
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here
<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	\$1.40	06/09/2021
Total Postage and Fees	\$7.85	Rowland Land LLC

Send To: Rowland Land Co. LLC
 Street and Apt. No., or PO Box No.: 405 Capitol Street, Suite 609
 City, State, ZIP+4®: Charleston WV 25301

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

RECEIVED
 Office of Oil and Gas
 JUN 11 2021
 WV Department of
 Environmental Protection

06/18/2021

WW-9
(5/16)

API Number 47 - 081 - 01137
Operator's Well No. Rowland Land 26

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) Miller's Fork Quadrangle Arnette

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?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 2D04701511002)
- 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
JUN 11 2021

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste to be disposed 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 Production



Subscribed and sworn before me this 8th day of June, 2021

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

47-081-01137 A

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
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: [Signature]

Comments: _____

Title: Inspector

Date: 6/11/21

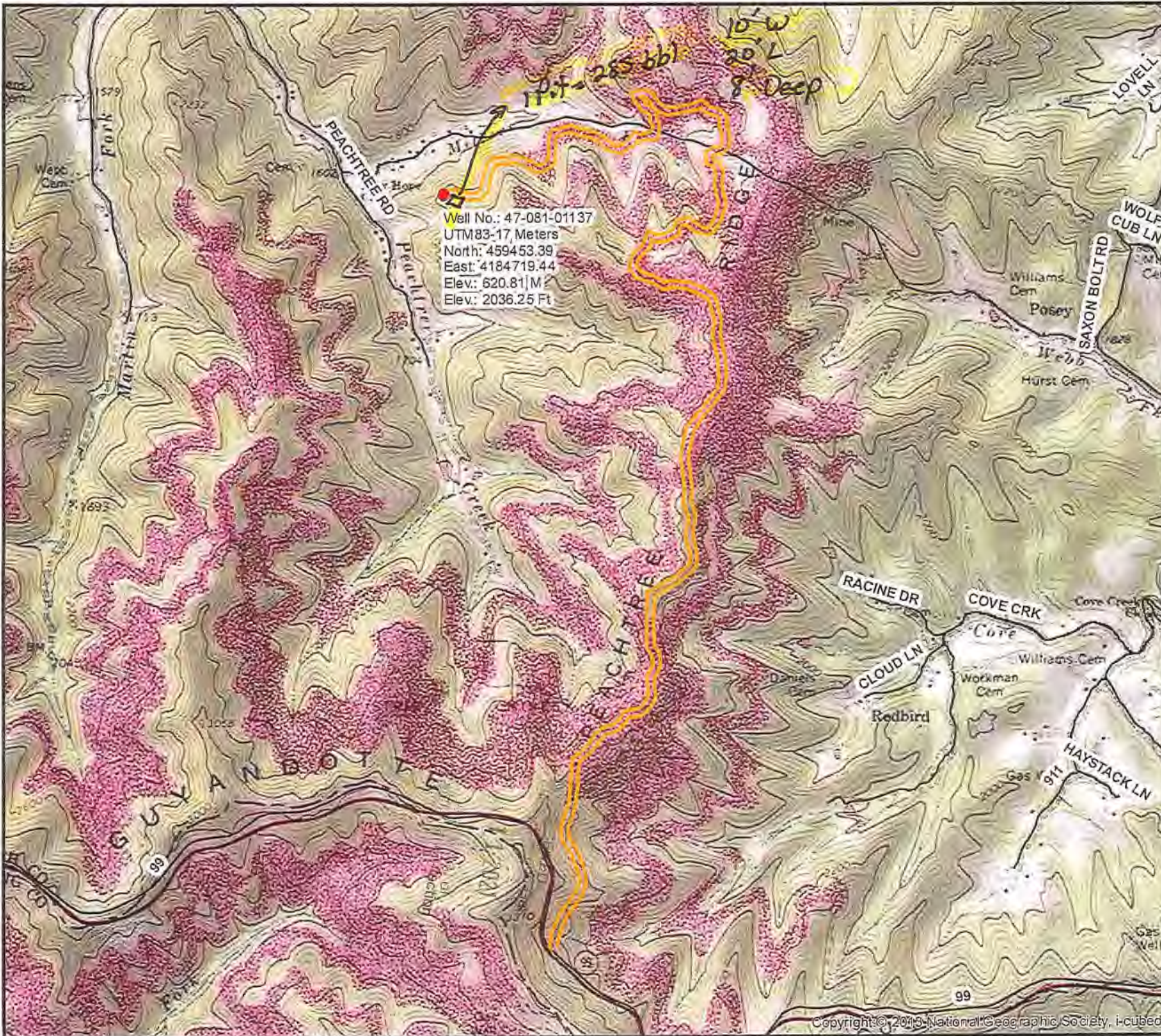
Field Reviewed? () Yes () No

RECEIVED
Office of Oil and Gas

JUN 16 2021

WV Department of
Environmental Protection

06/18/2021



Well No.: 47-081-01137
 UTM83-17 Meters
 North: 459453.39
 East: 4184719.44
 Elev.: 620.81 M
 Elev.: 2036.25 Ft

10' W
 20' L
 8' Deep
 Pit = 285 bbl



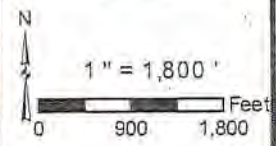
Diversified Gas & Oil Corporation
 100 Diversified Way
 Pikeville KY, 41051

47-081-01137

Plugging Map

Legend

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



4708101137P

WW-7
8-30-06



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

API: 47-081-01137 WELL NO.: Rowland Land 26

FARM NAME: Rowland Land Co. LLC.

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Raleigh DISTRICT: Marsh Fork

QUADRANGLE: Arnett

SURFACE OWNER: Rowland Land Co. LLC

ROYALTY OWNER: Rowland Land Co. LLC

UTM GPS NORTHING: 4,184,719.44

UTM GPS EASTING: 459,453.39 GPS ELEVATION: 2036'

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

Director Production
Title

06/07/2021
Date

RECEIVED
Office of Oil and Gas
JUN 11 2021
WV Department of
Environmental Protection