



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

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

Monday, July 12, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for 50
47-081-01202-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: 50
Farm Name: ROWLAND LAND CO.
U.S. WELL NUMBER: 47-081-01202-00-00
Vertical Plugging
Date Issued: 7/12/2021

Promoting a healthy environment.

07/16/2021

I
7/9/21

4708101202F

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.

07/16/2021

1) Date June 30, 2021
2) Operator's Well No. 11892
3) API Well No. 47-081-01202

RECEIVED
Office of Oil and Gas
JUL 09 2021
WV Department of
Environmental Protection

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 2199 feet Watershed Drews Creek
District Marsh Fork County Raleigh Quadrangle Pilot Knob

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 Name Gary Kennedy
Address 66 Old Church Lane
Pipestem, WV 25979
9) Plugging Contractor Name Diversified Production, LLC (in-house rig)
Address 1951 Pleasantview Ridge Road
Ravenswood, WV 26164

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

See Attached

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 7/6/21

07/16/2021

PLUGGING PROGNOSIS

API# 47-081-01202

West Virginia, Raleigh County

37.8125438751434, -81.5089704267296

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

Casing Schedule

12 3/4" csg @ 21'

9 5/8" csg @ 307' cemented to surface w/ 88 sks

7" csg @ 752' cemented to surface w/ 117 sks

4 1/2" csg @ 3474' est TOC 1522' w/ 200 cu ft

TD 3492'

RECEIVED
Office of Oil and Gas

JUL 09 2021

WV Department of
Environmental Protection**Completion: Frac**

Big Lime 3336'-3342'

Middle Maxon 2668'-2675'

Ravenciff 2228'-2234'

Fresh Water: None recorded**Gas Shows:** 2228', 2668', 3336'**Oil Show:** No shows**Coal:** 190', 220'**Elevation:** 2210'

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 3342'. Kill well as needed with 6% bentonite gel. Pump 106' C1A cement plug from **3342'-3236' (Big Lime gas show)**. Tag TOC. Top off as needed.
5. TOOH w/ tbg to 3236'. Pump 6% bentonite gel from 3236'-2675'.
6. TOOH w/ tbg to 2675'. Pump 107' C1A cement plug from **2675'-2568' (Maxon gas show)**.
7. TOOH w/ tbg to 2568'. Pump 6% bentonite gel from 2568'-2234'.
8. TOOH w/ tbg to 2234'. Pump 124' C1A cement plug from **2234'-2110' (Ravenciff and Elevation.)**
9. TOOH w/ tbg to 2110'. Pump 6% bentonite gel from 2110'-802' TOOH LD tbg.
10. 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.
11. TIH w/ tbg to 802'. Pump 100' C1A cement plug from **802'-702' (7" csg st)**.
12. TOOH w/ tbg to 702'. Pump 6% bentonite gel from 702'-270'.
13. TOOH w/ tbg to 270'. Pump 270' C1A cement plug from **270'-0' (Surface)**. TOOH LD tbg.
14. Erect monument with API#, date plugged, and company name.
15. Reclaim location and road to WV-DEP specifications.

COMPANY/WELL NO.: DADI - ROWLAND #50

47-081-01202P
Well 11892

09/11/2000 PERFORATED AND FRACED AS FOLLOWS:

11/06/2000

B. LIME, 3336 - 3342', 6 HOLES, BD 1119#, AVG RATE 8 BPM, AVG PRESS 1300#. 2000 GAL 29% ACID, 20 MSCFN2, ISIP 500#

M. MAXTON, 2658 - 2675', 20 HOLES, BD = 2112#, AVG RATE 25 BPM, AVG PRESS 2525#, 500 GAL 15% ACID, TOT SAND 28,000#, 158 MSCFN2, ISIP = 3300#
RAVENCLIFF, 2228 - 2234', 16 HOLES, PRINCETON, 2108 - 2110', 2 HOLES, BD = 2300#, AVG RATE 25 BPM, AVG PRESS 3175#, 114 MSCFN2, ISIP = 2650', 500 GAL 15% ACID, TOT SAND 14,000#, ISIP = 2660#

09/13/2000 CLEAN UP AFTER FRAC.

MOVING IN RIG TO CLEAN UP AFTER FRAC
520# PRESSURE, OPEN UP WELL, WELL FLOWED AND BROUGHT LAST FRAC BALL TO SURFACE, WELL OPEN TO PIT ALL DAY. MOVED IN SERVICE RIG. WILL DRILL OUT BAFFLES AND CLEAN UP WELL ON 9/14.

09/14/2000 450# CSG PSI, KNOCK OUT FRAC BAFFLES, TD WELL AT 3420'. FOUND FLUID LEVEL AT 2500', SWAB WELL DOWN. WELL MAKING 150' FLUID EVERY 1/2 HOUR.

09/15/2000 400# CSG PSI, TOOK 4 HR OF, 4/10 X 2" WW= 84 MCF/D. FINISHED CLEANING WELL UP. WELL MAKING 160' WATER EVERY HOUR. OPEN FLOW IS FINAL. RELEASED RIG.

09/19/2000 EVALUATING

09/20/2000 PLAN TO RE-FRAC RAVENCLIFF ON 9/22/00

09/22/2000 ENERGY PERF RAVENCLIFF 2228'-2234', 16 HOLES, SET FRAC PLUG AT 2270'. FRAC X-LINK (VIKING 20) BREAK 2958#, AVG PSI 2320#, MAX PSI 2538#, MIN PSI 2197#, AVG RT 14.3 BPM, HHP 813, ISIP 2365#, 5 MIN 1745#, JOB COMPLETE 10:58 AM. USED 30,000# 20/40 SAND, 500 GAL 15% ACID, OPEN TO PIT 12:30 PM. WELL FLOWED STARTED TO SWABBED AT END OF DAY LEFT OPEN TO PIT OVERNIGHT.

09/23/2000 SWABBING BACK FRAC FLUID. WELL MAKING SAND.

09/25/2000 SICP = 40#. 1ST FLUID LEVEL 600' FROM TOP OF WELL. SAND PUMPED, RECOVERED FRAC BALL. DRILLED OUT FRAC PLUG. SWABBED CASING.

09/26/2000 SICP = 40#. 1ST FLUID LEVEL 1200' FROM TOP OF WELL. SAND PUMPED AND SWABBED CASING. DRILLED OUT FRAC PLUG. CHASE TO T.D. SWABBING CASING.

09/27/2000 SICP = 310#. O.F. - 25 MCF. RELEASED RIG.

10/02/2000 WAITING ON PIPELINE

10/10/00 Turn In Line @ 480#

Final Report

RECEIVED
Office of Oil and Gas

JUL 02 2021

WV Department of
Environmental Protection

Formation TOP

Princeton	2024	-2118'
Ravencliff	2213	-2267'
Middle Maxton	2662	-2705'
Lower Maxton	2845	-2905'
Little Lime	2927	-3005'
Big Lime	3019	-3418'

4708101202P

WW-4A
Revised 6-07

1) Date: June 30, 2021
2) Operator's Well Number
11692

3) API Well No.: 47 - 081 - 01202

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>
_____	<u>Charleston, WV 25301</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>86 Old Church Road</u>	Name <u>No Declaration</u>
<u>Pipastem, WV 25979</u>	Address _____
Telephone <u>304-382-8402</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 reverse 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 (as by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

JUL 02 2021
WV Department of Environmental Protection



Well Operator Diversified Production, LLC
 By: [Signature] Jeff Mast
 Title: Director Production
 Address P.O. Box 6070
Charleston, WV 25362
 Telephone 304-543-6988

Subscribed and sworn before me this 30th 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.

07/16/2021

Well: 11892
API: 47-081-01202P

4708101202P

7019 1640 0000 1003 2530

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

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

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Postmark Here
WELL 5

Sent To: Lexington Coal Co.
Street and Apt. No., or PO Box No.: PO Box 58370
City, State, ZIP+4®: Charleston WV 25358

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

7019 1640 0000 1003 2523

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

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

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Postmark Here
11892

Sent To: Rowland Land Company LLC
Street and Apt. No., or PO Box No.: 405 Capitol St 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
JUL 02 2021
WV Department of
Environmental Protection

WW-9
(5/16)

4708101202P

API Number 47 - 081 - 01202
Operator's Well No. 11892

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) Draws Creek Quadrangle Pilot Knob

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

RECEIVED
Office of Oil and Gas

JUL 02 2021

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

WV Department of
Environmental Protection

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 30th day of June, 2021

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

07/16/2021

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

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount lbs/acre

Mulch 2 Tons/acre

RECEIVED
Office of Oil and Gas
JUL 09 2021
WV Department of
Environmental Protection

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.

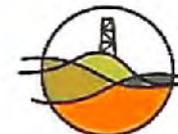
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments:

Title: *Inspector* Date: *7/6/21*

Field Reviewed? () Yes () No



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

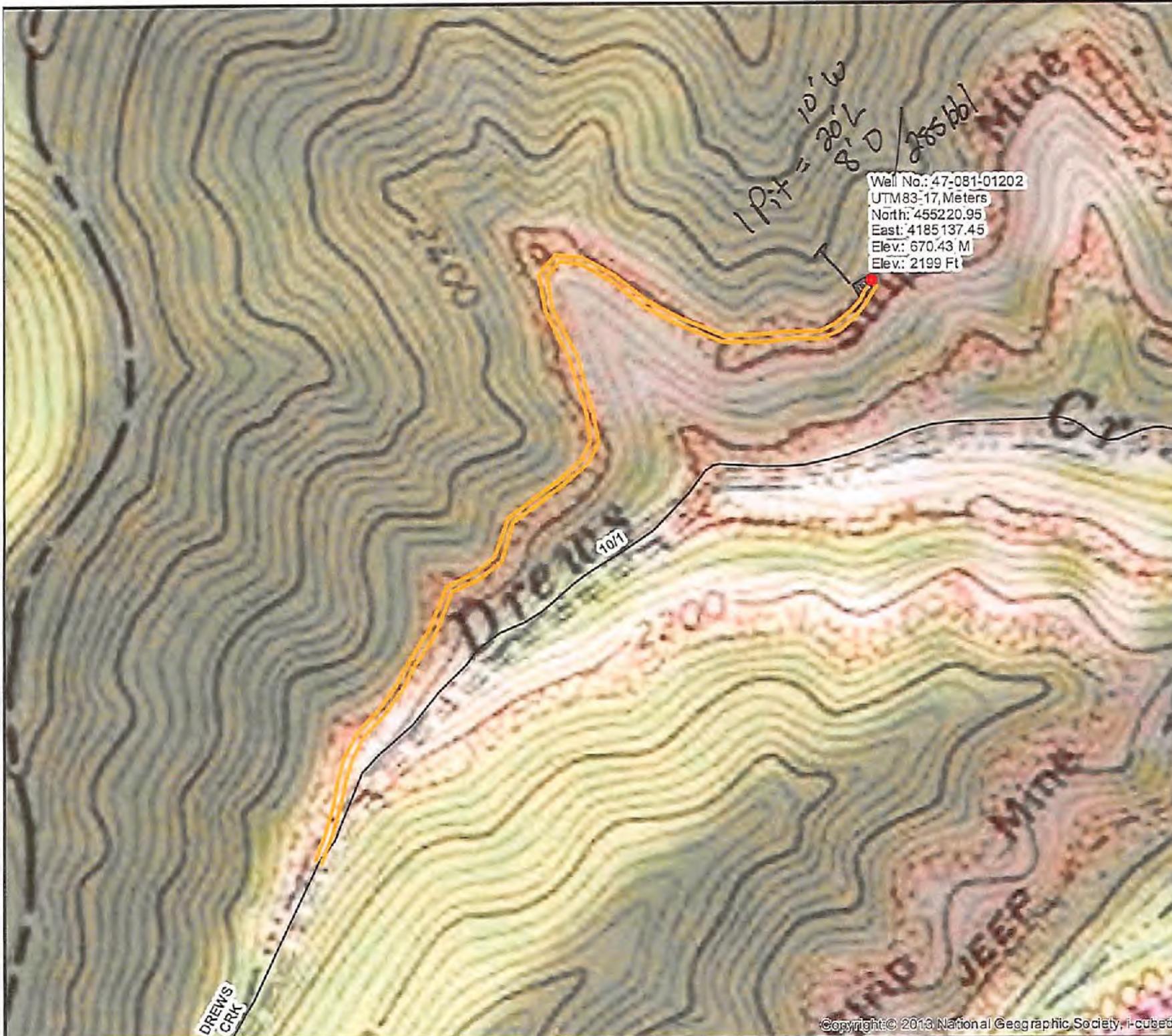
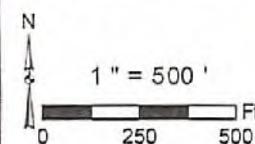
47-081-01202

Plugging Map

Legend

- Well
- Access Road
- ▨ Pits
- Pad
- Public Road

47-081-01202
RECEIVED
JUL 02 2021
Office of Oil and Gas
Department of
Environmental Protection



Well No.: 47-081-01202
UTM83: 17, Meters
North: 455220.95
East: 4185137.45
Elev.: 670.43 M
Elev.: 2199 Ft

1 Pit = 10' x 30' x 8' D
255 bbl

DREW'S
CRK

1011

Drew's Mine

Drew's Mine



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-081-01202 WELL NO.: 11892

FARM NAME: Rowland Land Co.

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Raleigh DISTRICT: Marsh Fork

QUADRANGLE: Pilot Knob

SURFACE OWNER: Rowland Land Co.

ROYALTY OWNER: Rowland Land Co.

UTM GPS NORTHING: 4,185,137.45

UTM GPS EASTING: 455,220.95 GPS ELEVATION: 2199'

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 ____

RECEIVED
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

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 [Handwritten Signature]

Director Production
Title

7-1-19
Date

PLUGGING PERMIT CHECKLIST

RECEIVED
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A

- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED