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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, June 14, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

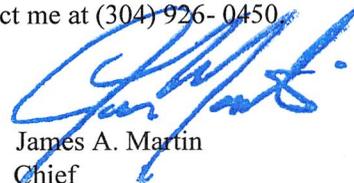
DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for 1016  
47-039-02992-00-00

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: 1016  
Farm Name: BROWN, GOSHORN & SWAN  
U.S. WELL NUMBER: 47-039-02992-00-00  
Vertical Plugging  
Date Issued: 6/14/2021

## 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

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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.

**PLUGGING PROGNOSIS**

API# 47-039-02992

West Virginia, Kanawha County

38.5086985, -81.2362556

Nearest ER: Charleston Area Medical Center: 501 Morris St. Charleston, WV 25301

**Casing Schedule**

10" csg @ 21'

8 ¼" csg @ 545'

6 5/8" csg @ 1604'

3 ½" tbg @ 1788' Packer @ 1624'

TD 1788'

3" FL @ 290' on 10/15/2019

**Completion:** Shot**Fresh Water:** No shows**Gas Shows:** Big Injun 1685'-1748'**Oil Show:** No shows**Coal:** No shows**Elevation:** 989'

1. Notify Inspectors ~~Allen Flowers @ 304-522-8308~~, Terry Urban @ 304-549-5915, 48 hours prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. Attempt to pull 3 ½" csg and packer. If 3 ½" will not pull, pull stretch estimating free point. A 100' C1A cement plug will need added 50' in/out of cut at free point location.
5. TIH w/ tbg to 1748'. Load well as needed w/ 6% bentonite gel. Pump 194' C1A cement plug from **1748'-1554' (Big Injun gas show and 6 5/8" csg st)**. Check TOC. Top off as needed.
  - a. Perf 3" @ 1748', 1698', 1658', 1608', and 1560' prior to cementing if unable to pull 3 ½" at this depth.
6. TOOH w/ tbg to 1554' and pump 6% bentonite gel from 1554'-989'. TOOH LD tbg.
7. Perf 6 5/8" csg @ 989', 939', 900', 595', 545', and 500'.
8. TIH w/ tbg to 989'. Pump 100' C1A cement plug from **989'-889' (Elevation)**.
  - a. Tag TOC if well does not circulate.
9. TOOH w/ tbg to 889'. Pump 6% bentonite gel from 889'-595'.
10. TOOH w/ tbg to 595'. Pump 100' C1A cement plug from **595'-495' (8 ¼" csg st)**. Monitor circulation on 8 ¼". Tag TOC if well does not circulate. Top off as needed.
11. TOOH w/ tbg to 495'. Pump 6% bentonite gel from 495'-100'. TOOH LD tbg.
12. Perf 6 5/8" csg @ 100' and 50'.
13. TIH w/ tbg to 100'. Pack off with wellhead. Pump 100' C1A cement plug from **100'-0' (Surface)**. Monitor circulation. TOOH LD tbg.
14. Erect monument with API#, date plugged, and company name.
15. Reclaim location and road to WV-DEP specifications.

*Allen Flowers*  
5-11-21

RECEIVED  
Office of Oil and Gas

MAY 12 2021

06/18/2021  
Environmental Protection

4703902992P

SERIAL WELL No. 1016 LEASE No. 2282, 2274, 2304.

RECORD OF WELL No. 26 on the Brown, Goshorn, & Swan Farm of 13212 Acres in Big Sandy District Kanawha County Clendenin Field, State of W. Va.

Table with columns: SIZE, USED IN DRILLING, LEFT IN WELL. Rows include Conductor sizes (13", 10", 8 1/4", 8", 7 5/8", 6 3/8", 6 1/4", 5 3/4", 5 1/2", 4 7/8", 3") and lengths (20'10", 20'10", 545'0", 1800'9", 1600'9", 1800'11", 1800'11").

Table with columns: GAS WELL, OPEN FLOW, CLOSED IN Tubing Casing. Includes flow data for 6-5/8 inch casing (At Centre, At 1-7 Diam) and closed-in casing (in 3") with production in Pounds and Ounces.

Rig Commenced 19... Rig Completed 19... Drilling Commenced January 12th., 1918. 19... Drilling Completed March 27th., 1918. 19... Drilling to cost \$1.70 per foot... Contractor is: Sutherland & Kifer... Address: Charleston, W. Va.

Drillers' Names T.C. Stocts. I.A. Stocts.

Shot March 23 1918

Size of Torpedo 3 1/2" X 10' 2 1/2" X 10 1/2"

Size of Tubing 3 inch

Size of Packer 3" X 6-5/8" X 16"

Kind of Packer Farm Anchor Well abandoned and plugged

Set 164 ft. from Bottom

1st DAY'S PRODUCTION Gas calculated to be 1,800,000 cubic feet Oil flowed barrels, pumped barrels 1st Perf. (2'0") set on Bottom. 2nd Perf. (7'6") set 43' from Bottom.

Elev. 940 B

DRILLER'S RECORD

Table with columns: FORMATION, TOP, BOTTOM, THICKNESS, REMARKS, DATE. Lists geological layers like Slate & Shell, Little Dunkard, Gas Sand, etc., with their depths and thicknesses.

\* Total Depth 1788.

\* From original figures at the well.

RECEIVED Office of Oil and Gas MAY 04 2021 WV Department of Environmental Protection

039-2992

WW-4A  
Revised 6-07

1) Date: March 23, 2021  
2) Operator's Well Number  
801016  
3) API Well No.: 47 - 039 - 02992

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>WV Public Lands Corps,</u>    | Name _____                             |
| Address <u>C/O Robert D. Jacobs, Esq.</u> | Address _____                          |
| <u>823 Charleston National Plaza</u>      |  |
| (b) Name <u>Charleston, WV 25301</u>      | (b) Coal Owner(s) with Declaration     |
| Address _____                             | Name <u>Goshorn and Goshorn Agency</u> |
|   | Address <u>P.O. Box 88</u>             |
|   | <u>Charleston, WV 25321</u>            |
| (c) Name _____                            | Name _____                             |
| Address _____                             | Address _____                          |
| 6) Inspector <u>Terry Urban</u>           | (c) Coal Lessee with Declaration       |
| Address <u>P.O. Box 1207</u>              | Name <u>No Declaration</u>             |
| <u>Clendenin, WV 25045</u>                | Address _____                          |
| Telephone <u>304-549-5915</u>             |  |

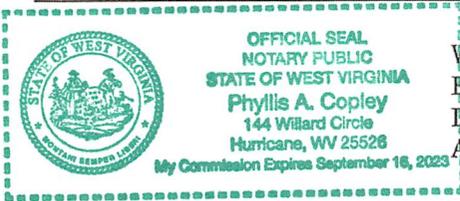
**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (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 (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Office RECEIVED  
MAY 04 2021  
WV Department of Environmental Protection  
Office of Oil and Gas



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 29th day of March, 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](mailto:depprivacyofficer@wv.gov).

4703902992

801016  
47-039-02992

7019 1640 0000 1003 5005

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

**Charleston, WV 25301**

|  |               |
|--|---------------|
| Certified Mail Fee   | \$3.60        |
| Extra Services & Fees (check box, add fee as appropriate)    | \$2.85        |
| <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  | \$1.40        |
| <b>Total</b>   | <b>\$7.85</b> |

0523  
03

Postmark  
Here

05/03/2021

To: **801016 P&A**  
WV Public Lands Corps.  
C/O Robert D. Jacobs, Esq.  
823 Charleston National Plaza  
Charleston, WV 25301

PS Instructions

7019 1640 0000 1003 4992

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**Charleston, WV 25321**

|  |               |
|--|---------------|
| Certified Mail Fee   | \$3.60        |
| Extra Services & Fees (check box, add fee as appropriate)    | \$2.85        |
| <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  | \$1.40        |
| <b>Total</b>   | <b>\$7.85</b> |

0523  
03

Postmark  
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05/03/2021

To: **801016 P&A**  
Goshorn and Gorshorn Agency  
P.O. Box 88  
Charleston, WV 25321

PS Instructions

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Office of Oil and Gas  
MAY 04 2021  
Department of  
Environmental Protection

06/18/2021

WW-9  
(5/16)

API Number 47 - 039 - 02992  
Operator's Well No. 801016

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) King Shoals Run (505000709) Quadrangle Newton

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 47-119-00724 )
- 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

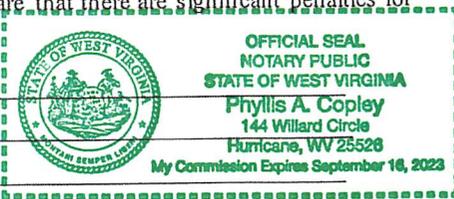
-Landfill or offsite name/permit number? N/A

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 Production



Subscribed and sworn before me this 29<sup>th</sup> day of March, 2021  
Phyllis A. Copley Notary Public  
My commission expires September 16, 2023

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WV Department of Environmental Protection

06/18/2021

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

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:

[Blank lines for comments]

Title: [Signature]

Date: 5-11-21

Field Reviewed? ( ) Yes ( ) No

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MAY 12 2021

WV Department of Environmental Protection



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

801016

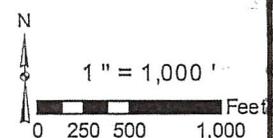
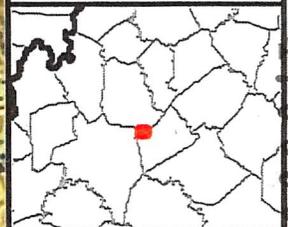
Plugging Map

**47-039-02992**

### Legend

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

Well No.: 801016  
UTM83-17 Meters  
North: 4794 16.6  
East: 4262294.06  
Elev.: 299.34 M  
Elev.: 981.85 Ft



4703902992

WW-7  
8-30-06



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

API: 47-039-02992 WELL NO.: 801016

FARM NAME: Brown, Goshorn, and Swan

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Kanawha DISTRICT: Big Sandy Union

QUADRANGLE: Newton ELKVIEW

SURFACE OWNER: WV Public Land Corps

ROYALTY OWNER: T. William Truesdell Et al.

UTM GPS NORTHING: 4,262,294.06

UTM GPS EASTING: 479,416.6 GPS ELEVATION: 981.8

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.

AA  
Signature

Director Production  
Title

03/19/2021  
Date

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WV Department of  
Environmental Protection

1) Date March 23, 2021  
2) Operator's  
Well No. 801016  
3) API Well No. 47-039 - 002992

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 981.8 ft Watershed King Shoals Run  
District Union County Kanawha Quadrangle Newton

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 Terry Urban Name R & J Well Services, Inc.  
Address P.O. Box 1207 Address P.O. Box 40  
Clendenin, WV 25045 Hueysville, KY 41640-0040

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

See Attached

*Operator to cover with cement all Perfs & Oil  
Gas bearing formations including SAH, Elevation, Coal &  
fresh water zones*

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Office of Oil and Gas

MAY 12 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 *[Signature]* Date 5-11-21