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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)

Thursday, July 8, 2021

WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for 5  
47-005-00301-00-00

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: 5  
Farm Name: WISMAN, GARNETTE  
U.S. WELL NUMBER: 47-005-00301-00-00  
Vertical Plugging  
Date Issued: 7/8/2021

I

4700500301

## 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.

07/09/2021

1) Date June 14, 2021  
2) Operator's  
Well No. 5  
3) API Well No. 47-065 - 00301

**4700500301P**

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 682 feet Watershed Dicks Creek  
District Washington County Boone Quadrangle Julian

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 Diversified Production, LLC (in-house rig)  
Address P.O. Box 1207 Address 1951 Pleasantview Ridge Road  
Clendenin, WV 25045 Ravenswood, WV 26164

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

See Attached

*Operator to Cover with Cement All Oil & Gas  
Bearing formation, Coal, Salt Elevation, and Freshwater  
Zones*

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Terry Urban* Date 6-16-21

07/09/2021

4700500301P

**PLUGGING PROGNOSIS**

West Virginia, Boone County

API# 47-005-00301

38.2048023801209, -81.8284505775382

Nearest ER: Thomas Memorial Hospital 4605 MacCorkle Ave SW. South Charleston, WV 25309

**Casing Schedule**

6 5/8" csg @ 1324'

5 3/16" csg @ 1405'

Tools left in hole @ 3045'

TD 3232'

\*This was a drill deeper with no records of original hole. Coal and fresh water shows taken from offset well 008580 (47-039-00218) and adjusted for elevation.

**Completion: Natural**

**Fresh Water: 290'**

**Gas Shows: Shale 2645-2660', 2800'-2810', 3000'-3015'**

**Oil Show: No shows**

**Coal: 120', 293'**

**Elevation: 675'**

1. Notify Inspector, Terry Urban @ 304-549-5915. 48 hours prior to commencing operations.
2. Check and record pressures on csg.
3. Check TD w/ wireline.
4. TIH w/ tbg to 3015'. Load well as needed with 6% bentonite gel. Pump 115' C1A cement plug from **3015'-2900' (Gas show)**.
5. TOOH w/ tbg to 2900'. Pump 6% bentonite gel from 2900'-2800'.
6. TOOH w/ tbg to 2800'. Pump 100' C1A cement plug from **2800'-2700' (Gas show)**.
7. TOOH w/ tbg to 2700'. Pump 6% bentonite gel from 2700'-2645'.
8. TOOH w/ tbg to 2645'. Pump 100' C1A cement plug from **2645'-2545' (Gas show)**.
9. TOOH w/ tbg to 2545'. Pump 6 % bentonite gel from 2545'-1455'.
10. TOOH w/ tbg to 1455'. Pump 181' C1A cement plug from **1455'-1274' (5 3/16" and 6 5/8" csg sts)**.
11. TOOH w/ tbg to 1274'. Pump 6% bentonite gel from 1274'-675'. TOOH LD tbg.
12. Free Point 5 3/16" csg. Cut and pull. Set 100' C1A cement plug across cut. 50' in/out of cut.
13. Free Point 6 5/8" csg. Cut and pull. Set 100' C1A cement plug across cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
14. TIH w/ tbg to 675'. Pump 100' C1A cement plug from **675'-575' (Elevation)**.
15. TOOH w/ tbg to 575'. Pump 6% bentonite gel from 575'-343'.
16. TOOH w/ tbg to 343'. Pump 103' C1A cement plug from **343'-240' (Coal and fresh water)**.
17. TOOH w/ tbg to 240'. Pump 6% bentonite gel from 240'-170'.
18. TOOH w/ tbg to 170'. Pump 170' C1A cement plug from **170'-0' (Coal and surface)**. TOOH LD tbg
19. Erect monument with API#, date plugged, and company name.
20. Reclaim location and road to WV-DEP specifications.

*August White*  
6-16-21

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1500-301 47-005-00301 P  
Well 5

LOG OF UNITED CARBON COMPANY WELL NUMBER 856

Garnett P.

Title and Number of Well & Wisman #5 (Formerly Cambridge Gas Co. Well)

CASING RECORD: Dicks Creek, Boone County, W. Va.

Size	Weight Per Foot	Threads Per Inch	Manufacturer's Name	Where Landed	CEMENTED			SET		BAILED DRY	Stood Hours
					Yes	No	Sacks	From	To		
8-1/4"				None							
6-5/8"				1324							
5-3/16"				1405							
No Tubing											

DETAILS OF LOG:

FEET		FORMATION	FEET		FORMATION
From	To		From	To	
Started	Drilling	at 1980' cement.	Commenced	- February 15, 1936	
			Completed	- March 21, 1936	
1320	1545	Big Lime	Sprayed out	1800-2000'	
1993	2014	Berea Grit	"	2000-2200'	
2066	2175	Slate & Shells	"	2300-2400'	
2175	2225	Shells	"	2400-2600'	
2245	2300	Shells	Gas	2645-2650' - 2/10W2" -	60,000 cu.ft.
2300	2310	Slate	Gas	2650-2660' - 4/10W2" -	84,000 "
2310	2340	Shells		2800-2805 - 1 1/4/10W2" -	158,000 "
2340	2645	Slate		2805-2810' - 3/2/10W2" -	238,000 "
2645	2660	Shale		3000-3015' - 8/10 Water increase	
2660	2710	White Slate			
2710	2760	Slate	Well not shot.		
2760	2805	Slate			
2805	2845	Slate	Initial Open Flow -	330,000 cu.ft.	
2845	2900	Slate			
2900	2932	Slate	Stuck string of tools about 30' off bottom		
2932	3000	Slate	Stranded cracker about 100' up. Rope		
3000	3074	Slate	knife less blade on top of stranded cracker		
3074	3121	Slate	with approximately 5' of 1/2" sand line		
3121	3130	Slate	top of all junk at 3045'.		
3130	3190	Shells	Well tested 42/10 W 2" (273,000 cu.ft.)		
3190	3200	Slate	immediately after running bailer - in 2		
3200	3232	Shale, Brown	minutes built up to 62/10 W 2" - 330,000		
Total Depth -	3232'		5-3/16" Hookwall spang packer with 16"		
			rubber.		

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JUN 23 1977  
COMMISSIONER  
JOHN W. HINES

1) Date: June 14, 2021  
2) Operator's Well Number  
5

3) API Well No.: 47 - 005 - 00301

**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>Everett &amp; Diann Hannah</u>	Name <u>None</u>
Address <u>P.O. Box 277</u>	Address _____
<u>Varney, WV 25636</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Penn Virginia Coal Company (Attn: Gary Bagley)</u>
_____	Address <u>One Carbon Center, Suite 100</u>
_____	<u>Chesapeake, WV 25314</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>Lexington Coal Company (Attn: Kermit Finnam)</u>
<u>Clendenin, WV 25045</u>	Address <u>123 Long Shoals Branch</u>
Telephone <u>304-549-5915</u>	<u>Alum Creek, WV 25003</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: [Signature] Jeff Mast  
Title: Director Production  
Address P.O. Box 6070  
Charleston, WV 25362  
Telephone 304-543-6988

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**JUN 23 2021**  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 14th 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](mailto:depprivacyofficer@wv.gov).

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Alum Creek, WV 25003

Certified Mail Fee	\$3.60	0523 03
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	Postmark Here
<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	06/14/2021
Total Postage and Fees	\$7.85	Well 5

Sent To: Lexington Coal Company  
 Street and Apt. No., or PO Box No.: 123 Long Shoals Branch  
 City, State, ZIP+4®: Alum Creek, WV 25003

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

47-005-00301  
Well 5

9252 0001 0000 1640 6707

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Charleston, WV 25315

Certified Mail Fee	\$3.60	0523 03
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	Postmark Here
<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	06/14/2021
Total Postage and Fees	\$7.85	Well 5

Sent To: Penn Virginia Coal Co.  
 Street and Apt. No., or PO Box No.: One Carbon Cte, Suite 100  
 City, State, ZIP+4®: Chesapeake, WV 25315

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

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Varney, WV 25696

Certified Mail Fee	\$3.60	0523 03
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	Postmark Here
<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	06/14/2021
Total Postage and Fees	\$7.85	Well 5

Sent To: Everett + Diann Hannah  
 Street and Apt. No., or PO Box No.: PO Box 277  
 City, State, ZIP+4®: Varney WV 25696

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

07/09/2021

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) Dicks Creek Quadrangle Julian

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 UIC2D03902327002 )
- 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



NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
Phyllis A. Copley  
144 Willard Circle  
Hurricane, WV 25528  
My Commission Expires September 16, 2023

Subscribed and sworn before me this 14th day of June, 2021

Phyllis A. Copley Notary Public

My commission expires September 16, 2023



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: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Title: Inspect Oil & Gas

Date: 6/17/21

Field Reviewed?  Yes  No

WV Department of  
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Diversified Gas & Oil Corporation  
 100 Diversified Way  
 Pikeville KY, 41051

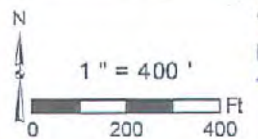
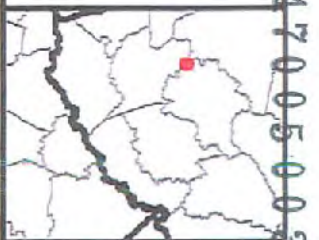
005-00301  
 47-046-0000

Plugging Map

Legend

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

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Well No.: 47-005-00301  
 UTM83-17, Meters  
 North: 427401.91  
 East: 4228844  
 Elev.: 207.99 M  
 Elev.: 682.2 Ft

1 Pit  
 2856bd  
 20' L  
 10' W  
 8' deep

47005-00301P

