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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)

Tuesday, May 25, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for 9237  
47-039-01923-00-00

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.

A blue ink signature of James A. Martin.

James A. Martin  
Chief

Operator's Well Number: 9237  
Farm Name: GEO CK LAND & MIN CO  
U.S. WELL NUMBER: 47-039-01923-00-00  
Vertical Plugging  
Date Issued: 5/25/2021

Promoting a healthy environment.

05/28/2021

## 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.

1) Date March 23, 2021  
2) Operator's  
Well No. 809237  
3) API Well No. 47-039 - 01923

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 861.8 ft Watershed Georges Creek  
District Malden County Kanawha Quadrangle Charleston East

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 core with Cement All parts Oil Gas  
bearing Formations including Salt, Elevation, Coal & 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 *[Signature]* Date 5-11-21

**PLUGGING PROGNOSIS**

API# 47-039-01923

West Virginia, Kanawha County

38.3008913897212, -81.549877215114

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

**Casing Schedule**

10" csg @ 34'

8 ¼" csg @ 384'

4" csg @ 1575'

TD 1575'

4" FL @ 311' on 10/11/19

**Completion: Frac****Fresh Water:** 460', 530', and 700'**Gas Shows:** Big Lime 1400'-1488'**Oil Show:** No shows**Coal:** No shows**Elevation:** 888'

1. Notify Inspectors ~~Am. Elmer @ 304-322-3333~~, 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 1488'. Load well as needed with 6% bentonite gel. Pump 188' C1A cement plug from **1488'-1300' (Big Lime gas show)**. Tag TOC. Top off as needed
5. TOOH w/ tbg to 1300'. Pump 6% bentonite gel from 1300'-888'. TOOH LD tbg.
6. Free point 4 ½" 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.
7. TIH w/ tbg to 888'. Pump 238' C1A cement plug from **888'-650' (Elevation and fresh water)**.
8. TOOH w/ tbg to 650'. Pump 6% bentonite gel from 650'-580'.
9. TOOH w/ tbg to 580'. Pump 246' C1A cement plug from **580'-334' (Fresh water and 8 ¼" csg st)**. Monitor circulation on 8 5/8" csg. Tag TOC. Top off as needed.
10. TOOH w/tbg to 334'. Pump 6% bentonite gel from 334'-100'. TOOH LD tbg.
11. Perforate 8 ¼" with 4 holes each at 100' and 50'.
12. TIH w/ tbg to 100' and pack off with wellhead. Pump 100' Class A cement plug from 100'-0'. Monitor circulation on the 10".
13. Erect monument with API#, date plugged, and company name.
14. Reclaim location and road to WV-DEP specifications.

*Henry W. Urban*  
5-11-21

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B3

United Fuel Co.  
COMPANY

SERIAL WELL NO. 9237

LEASE NO. 21661

MAP SQUARE 66-55

RECORD OF WELL NO. 9237 on the		CASING AND TUBING				TEST BEFORE SHOT
Gorges Cr. Land & Mining Co. 2663 Acres farm of		SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	/10 of Water in _____ inch
in	Halden District	10"				/10 of Merc. in _____ inch
	Kanawha County	8"				Volume _____ Cu. ft.
State of:	West Virginia	4"				TEST AFTER _____ Frac.
Field:	Northern					/10 of Water in _____ inch
Rig Commenced	9-20 19 63					86 /10 of Merc. in 2 _____ inch
Rig Completed	9-27 19 63					Volume _____ Cu. ft.
Drilling Commenced	9-27 19 63					_____ Hours After Shot
Drilling Completed	10-27 19 63					Rock Pressure _____
Drilling to cost	5.00 per foot					Date Shot _____
Contractor is:	Paul Lehastors					Size of Torpedo _____
Address:	421 10th Ave					Oil Flowed _____ bbls. 1st 24 hrs.
	Huntington, W. Va.					Oil Pumped _____ bbls. 1st 24 hrs.
Driller's Name	Clyde Osburn	4" in				Well abandoned and
	Paul L. Harris	Shoe Size of _____ 4"				Plugged _____ 19
		Shoe Kind of _____ Float				
		1st Perf. Set _____ from _____				
Elevation:	887.94'	2nd Perf. Set _____ from _____				

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Fire Clay	15	15	15	2-bailer water 460ft.
Slate	15	250	235	4-bailer 530ft.
Sand	250	300	50	Hole full water 700ft.
Slate & Shells	300	400	100	Top of water level 350ft.
Sand	400	460	60	Water 1392ft.
Broken Sand	460	520	60	Show of gas 140-1488ft.
Sand	520	568	48	
Break	568	575	7	
Sand	575	1087	512	
Slate	1087	1095	8	
Sand	1095	1155	60	
Shells	1155	1166	11	
Red Rock	1166	1180	14	
Slate	1180	1187	7	
Lime	1187	1205	18	
Sand	1205	1250	45	
Lime	1250	1286	36	

APPROVED:  
*Paul Lehastors*



4703901923P

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Charleston

WELL RECORD

Permit No. KAN-1923

Oil or Gas Well Gas  
(KIND)

Company United Fuel Gas Company  
Address P. O. Box 1273 Charleston 25, W. Va.  
Farm Georges Creek Land & Mining Co. Acres 2663  
Location (waters) Georges Creek  
Well No. 9237 Elev. 887.94'  
District Malden County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Georges Creek Land & Min. Co. 3314 P. St., N.W.  
Kenneth O. Shrewsbury Address Washington, D. C.  
Drilling commenced Sept. 27, 1963  
Drilling completed Oct. 27, 1963  
Date Shot Fracs. From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 86 /10ths Water in \_\_\_\_\_ Inch  
2 /10ths Merc. in \_\_\_\_\_ Inch  
Volume 1,430,000 Cu. Ft.  
Rock Pressure 283 lbs. hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of <u>Shoe Float</u>
18			Size of <u>Shoe</u>
13		<u>34'</u>	<u>4"</u>
10		<u>384</u>	Depth set _____
8			Perf. top _____
5 8/16		<u>1582</u>	Perf. bottom _____
2 1/4"			Perf. top _____
2			Perf. bottom _____
Liners Used			

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

WELL FRACTURED \_\_\_\_\_

RESULT AFTER TREATMENT \_\_\_\_\_

ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_

Fresh Water 460 1392 Feet 530 700 Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Fire Clay			0	15			
Slate			15	250	2-bailer water	460 ft.	
Sand			250	300	4-bailer	530 ft.	
Slate & Shells			300	400	Hole full water	700 ft.	
Sand			400	460	Top of water level	350 ft.	
Broken Sand			460	520	Water	1392 ft.	
Sand			520	568	Show of gas	140-1488	
Break			568	575			
Sand			575	1087			
Slate			1087	1095			
Sand			1095	1155			
Shells			1155	1166			
RedRock			1166	1180			
Slate			1180	1187			
Lime			1187	1205			
Sand			1205	1250			
Lime			1250	1286			
Slate			1286	1325			
Big Lime			1325	1515			
Red Injun			1515	1542			
Shells			1542	1575			
Total Depth			1575'				

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WV Department of  
Environmental Protection



(over)

4703901923P

WW-4A  
Revised 6-07

1) Date: March 23, 2021  
2) Operator's Well Number 809237

3) API Well No.: 47 - 039 - 01923

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>Jerome K. Graham - C/O Christy Slack</u>	Name _____
Address <u>535 Georges Creek Drive</u>	Address _____
<u>Charleston, WV 25306</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(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 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

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 Office of Oil and Gas  
 MAY 12 2021  
 WV Department of  
 Environmental Protection

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).

05/28/2021

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Charleston, WV 25306

**OFFICIAL USE**

Certified Mail Fee	\$3.60	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	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	\$1.40	
Total Postage	\$4.85	
Sent To	809237 P&A	05/03/2021
Street and	Jerome K. Graham	
City, State	C/O Christy Slack	
	535 Georges Creek Drive	
	Charleston, WV 25306	

PS Form 3800, April 2019 Edition

Well 809237  
47-039-01923P

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Environmental Protection

05/28/2021

4703901923P

WW-9  
(5/16)

API Number 47 - 039 \_01923  
Operator's Well No. 809237

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) Georges Creek (0505000604) Quadrangle Charleston East

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  *W*

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.

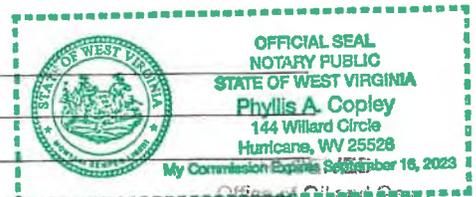
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 *Jeff Mast*

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 29th day of March, 2021

*Phyllis A. Copley* Notary Public

My commission expires September 16, 2023

MAY 12 2021

WV Department of Environmental Protection

05/28/2021

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:

Title: Inspector Oil & Gas

Date: 5-11-21

Field Reviewed? ( ) Yes ( ) No

RECEIVED Office of Oil and Gas MAY 12 2021 WV Department of Environmental Protection



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

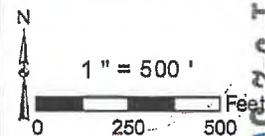
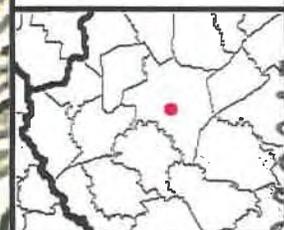
809273

Plugging Map

47-03A-0A23

### Legend

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



Well No.: 809273  
UTM83-17,Meters  
North: 451874.24  
East: 4239303.11  
Elev.: 262.75 M  
Elev.: 861.83 Ft



47039010298

