



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, July 8, 2021

WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 168
47-109-00499-00-00

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: 168
Farm Name: RITTER, W. M. LMBR. CO.
U.S. WELL NUMBER: 47-109-00499-00-00
Vertical Plugging
Date Issued: 7/8/2021

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4710900499P

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.

07/09/2021

PLUGGING PROGNOSIS

API# 47-109-00499

West Virginia, Wyoming County

37.631255749141, -81.7837938346972

Nearest ER: Welch Community Hospital: 454 McDowell St. Welch, WV 24801

Casing Schedule

13 3/8" csg @ 12'

10 3/4" csg @ 579'

8 5/8" csg @ 1568'

7" csg @ 2440'

2 3/8" tbg @ 2640' w 2x7 packer @ 2500'

TD 3318' Plugged back to 2650'

Completion: Acidized Big Lime 2550'-2650'

Fresh Water: 100', 750'

Gas Shows: Big Lime 2550'-2650'

Oil Show: No shows

Coal: 407', 1005'

Elevation: 1129'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. Release packer. TOOH LD tbg. Inspect.
5. TIH w/ tbg to 2650'. Kill well as needed with 6% bentonite gel. Pump 200' C1A cement plug from 2650'-2390' (Big Lime gas show and 7" csg st). Tag TOC. Top off as needed.
6. TOOH w/ tbg to 2390'. Pump 6% bentonite gel from 2390'-1618'. TOOH LD tbg.
7. Free point 7" csg. Cut and TOOH. Set 100' C1A cement plug across cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
8. TIH w/ tbg to 1618'. Pump 100' C1A cement plug from 1618'-1518' (8 5/8" csg st).
9. TOOH w/ tbg to 1518'. Pump 6% bentonite gel from 1518'-1129'. TOOH LD tbg.
10. Free point 8 5/8" 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 1129'. Pump 174' C1A cement plug from 1129'-955' (Elevation and coal).
12. TOOH w/ tbg to 955'. Pump 6% bentonite gel from 955'-800'.
13. TOOH w/ tbg to 800'. Pump 100' C1A cement plug from 800'-700' (Fresh Water).
14. TOOH w/ tbg to 700'. Pump 6% bentonite gel from 700'-629'.
15. TOOH w/ tbg to 629'. Pump 100' C1A cement plug from 629'-529' (10 3/4" csg st).
16. TOOH w/ tbg to 529'. Pump 6% bentonite gel from 529'-457'. TOOH LD tbg.
17. Free point 10 3/4" 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.
18. TIH w/ tbg to 457'. Pump 100' C1A cement plug from 457'-357' (Coal).
19. TOOH w/ tbg to 357'. Pump 6% bentonite gel from 357'-150'.
20. TOOH w/ tbg to 150'. Pump 150' C1A cement plug from 150'-0' (Fresh water and Surface). TOOH LD tbg.
21. Erect monument with API#, date plugged, and company name.
22. Reclaim location and road to WV-DEP specifications.

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4710900499P

1) Date June 8, 2021
2) Operator's Well No. 188
3) API Well No. 47-109 - 00499

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 1,124 feet Watershed Big Cub Creek
District Clear Fork County Wyoming Quadrangle Mallory

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

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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 *Gary Kennedy* Date 6/17/21

07/09/2021

13-1



4710900499A

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 19

Quadrangle Gilbert

Permit No. WYO-499

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company United Producing Company, Inc.
Address Box 1913, Charleston 27, West Virginia
Farm W. M. Ritter Lumber Company Acres 67, 244
Location (waters) Big Cub Creek
Well No. 168 (2598) Elev. 1129' DF
District Clear Fork County Wyoming
The surface of tract is owned in fee by W. M. Ritter Lumber Co., 4841 Williamson Rd. NW, Roanoke, Va.
Mineral rights are owned by Same

Casing and Tubing	Used in Drilling	Left in Well	7" X 8 5/8" bottom Packers hole packer @ 2440' 10 3/4" bottom hole packer set at 579' Kind of Packer Larkin upside-down Size of 2 3/8" X 7"
16			
13 3/8"	12'	12'	
10 3/4"	579'	579'	
8 5/8"	1568'	1568'	
6 5/8" OD	2440'	2440'	Depth set 2500'
5 3/16"			
3"			Perf. top 2620' Perf. bottom 2640'
2 3/8"	2640'	2610'	
Liners Used			Perf. top Perf. bottom

Address _____
Drilling commenced July 23, 1957
Drilling completed November 6, 1957
Date Shot 10-8-57 From 1965' To 1985'
With 100 qts. nitroglycerine
Open Flow 8 /10ths Water in _____ 2 _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 119,000 _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls. 1st 24 hrs.

CASING CEMENTED 8 5/8" SIZE 35' No. Ft. 9-10-57 Date

WELL ACIDIZED 11-15-57 with 2000 gals. acid from _____ FEET _____ INCHES 1005 FEET 60 INCHES
2550' to 2650'. Final open flow 16/10 M 2" _____ FEET _____ INCHES _____ FEET _____ INCHES
WELL FRACTURED 622,000 cu. ft.
Show of gas in Berea before shot 11-7-57 with 200 qts. nitroglycerine from 3270' to 3310'. 1 hr.
RESULT AFTER TREATMENT after shot 9 1/4 MCF. Exhausted. Plugged back and acidized Big Lime.
ROCK PRESSURE AFTER TREATMENT Acidized 800# in 14h hours (Big Lime)
Fresh Water _____ 100 _____ Feet _____ 750 _____ Salt Water _____ Feet _____

COAL WAS ENCOUNTERED AT 407 FEET 24 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	5			
Slate			5	45			
Sand			45	167	Water	100'	hole full
Slate & Shells			167	228			
Sand			228	324			
Slate & Shells			324	407			
Coal			407	409			
Sand			409	465			
Slate			465	483			
Sand			483	518			
Slate & Shells			518	550	Water	750'	2 blrs. per hr.
Sand			550	880			
Slate & Shells			880	940			
Sand			940	1005			
Coal			1005	1010			
Sand			1010	1107			
Slate & Shells			1107	1150			
Sand			1150	1192			
Slate			1192	1198			
Sand			1198	1330			
Slate & Shells			1330	1372			
Sand			1372	1422			
Slate & Shells			1422	1496			
Red Rock			1496	1511			
Slate & Shells			1511	1520			
Sand			1520	1590			
Slate & Shells			1590	1640			
Sand			1640	1769			
Red Rock			1769	1810			
Slate & Shells			1810	1885			



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Well 168

47-109-00499 P

Formation	Color	Hard or Soft	Top / ?	Bottom	Oil, Gas or Water	Depth Found	Remarks
Maxton Sand			1894 SLM	2042	Gas	1976-1980'	L/10 W 2" 8LM
Red Rock			2042	2061			
Slate & Shells			2064	2135			
Lime	Pink		2135	2166			
Slate & Sand Shells			2166	2187			
Sand			2187	2204			
Slate & Sand Shells			2204	2273			
Pencil Cave			2273	2281			
Little Lime			2281	2376			
Big Lime			2376	2685	Gas	2554-2560'	show
Injun Sand			2685	2772	Gas	2630-2640'	show
Weir Shells			2772	2930			
Slate & Shells			2930	3250			
Shale	Brown		3250	3268			
Berea			3268	3310	Gas	3289'	show
Slate			3310	3318	Gas	3297-3301'	show
TOTAL DEPTH				3318'			
Plugged back to				2650'			

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Date December 3, 1957

APPROVED UNITED PRODUCING COMPANY, INC. Owner

By *[Signature]*
Eastern (Title) Area Manager

07/09/2021

WW-4A
Revised 6-07

1) Date: June 8, 2021
2) Operator's Well Number
168
3) API Well No.: 47 - 109 - 00499

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>U S Army Corp of Engineers</u>	Name _____
Address <u>502 8th Street</u>	Address _____
<u>Huntington, WV 25701</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Lane</u>	Name <u>No Declaration</u>
<u>Pipesent, 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 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	<u>Diversified Production, LLC</u>	RECEIVED
By:	<u>Jeff Mast</u>	Office of Oil and Gas
Its:	<u>Director Production</u>	<u>JUN 15 2021</u>
Address	<u>P.O. Box 6070</u>	WV Department of
	<u>Charleston, WV 25362</u>	Environmental Protection
Telephone	<u>304-543-6988</u>	

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.

4710900499P

Well 168
47-109-00499

7019 1640 0000 100T 2606

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
<i>Domestic Mail Only</i>	
For delivery information, visit our website at www.usps.com ®.	
Huntington WV 25701	
OFFICIAL USE	
Certified Mail Fee	\$3.60
\$	\$2.85
Extra Services & Fees (check box, add fee as appropriate)	
<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
\$	\$7.85
Total Postage and Fees	
\$	\$7.85
Postmark Here	0523 03
	06/10/2021
	Well 168
Send To	
Army Corps of Engineers	
Street and Apt. No., or PO Box No.	
502 8th Street	
City, State, ZIP+4®	
Huntington WV 25701	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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WW-9
(5/16)

4710900499P

API Number 47 - 109 - 00499
Operator's Well No. 168

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) Big Cub Creek Quadrangle Mallory

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

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Additives to be used in drilling medium? N/A

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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

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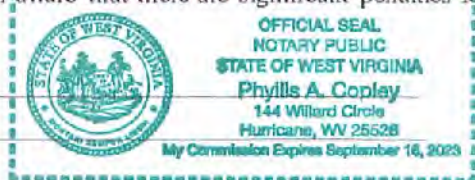
-Landfill or offsite name/permit number? N/A

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 8th day of June, 2021

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

07/09/2021

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: *Ang Kennel*

Comments: _____

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Title: Inspector

Date: 6/17/21

WV Department of Environmental Protection

Field Reviewed? () Yes () No



Diversified Gas & Oil
Corporation
100 Diversified Way
Pikeville KY, 42051

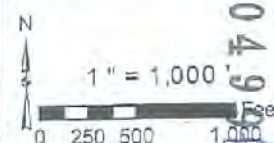
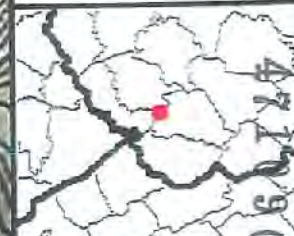
RITTER 168

Plugging Map

109-00499

Legend

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



Well No.: Ritter, 168
UTM 83-17 Meters
North: 430934.89
East: 4165406.1
Elev.: 342.69 M
Elev.: 1124.04 Ft

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-109-00499 WELL NO.: 168

FARM NAME: Ritter W.M. Lumber Company

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Wyoming DISTRICT: Clear Fork

QUADRANGLE: Mallory

SURFACE OWNER: US Army Corps of Engineers

ROYALTY OWNER: Weyerhaeuser

UTM GPS NORTHING: 4,165,406.1

UTM GPS EASTING: 430,934.8 GPS ELEVATION: 1124

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS ; Post Processed Differential

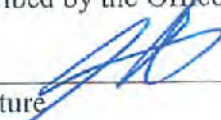
Real-Time Differential

Mapping Grade GPS ; Post Processed Differential

Real-Time Differential

- 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

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