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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, May 24, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for 120  
47-109-00378-00-00

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: 120  
Farm Name: RITTER, W. M. LMBR. CO.  
U.S. WELL NUMBER: 47-109-00378-00-00  
Vertical Plugging  
Date Issued: 5/24/2021

## 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 February 5, 2021  
2) Operator's Well No. 120  
3) API Well No. 47-109 - 00378

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 1,199 ft Watershed Horse Creek  
District Baileysville County Wyoming Quadrangle Pineville

6) Well Operator Alliance Petroleum Company 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 Pleasant View Ridge Road  
Pipestem, WV 25979 Ravenwood, WV 26164

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

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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  Date 2/8/21

**PLUGGING PROGNOSIS**

API# 47-109-00378

West Virginia, Wyoming County

37.5656538780636, -81.705519749598

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

**Casing Schedule**

13 3/8" csg @ 20'

10 3/4" csg @ 561'

8 5/8" csg @ 1516'

7" csg @ 2532'

TD 3548'

**Completion:** Shot Berea 3495'-3537'**Fresh Water:** 35'**Gas Shows:** Ravenscliff 1545', 2025', Berea 3495'-3537'**Oil Show:** No shows**Coal:** 672'**Elevation:** 1204'

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 3537'. Kill well as needed with 6% bentonite gel. Pump 142' C1A cement plug from **3537'-3395' (Berea gas show)**. Tag TOC. Top off as needed.
5. TOOH w/ tbg to 3395'. Pump 6% bentonite gel from 3395'-2582'.
6. TOOH w/ tbg to 2582'. Pump 100' C1A cement plug from **2582'-2482' (7" csg st)**.
7. TOOH w/ tbg to 2482'. Pump 6% bentonite gel from 2482'-2025'. TOOH LD tbg
8. 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.
9. TIH w/ tbg to 2025'. Pump 100' C1A cement plug from **2025'-1925' (Gas show)**.
10. TOOH w/ tbg to 1925'. Pump 6% bentonite gel from 1925'-1566'.
11. TOOH w/ tbg to 1566'. Pump 121' C1A cement plug from **1566'-1445' (Ravenscliff gas show and 8 5/8" csg st)**.
12. TOOH w/ tbg to 1445'. Pump 6% bentonite gel from 1445'-1204'. TOOH LD tbg.
13. 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.
14. TIH w/ tbg to 1204'. Pump 100' C1A cement plug from **1204'-1104' (Elevation)**.
15. TOOH w/ tbg to 1104'. Pump 6% bentonite gel from 1104'-722'.
16. TOOH w/ tbg to 722'. Pump 211' C1A cement plug from **722'-511' (Coal and 10 3/4" csg st)**.
17. TOOH w/ tbg to 622'. Pump 6% bentonite gel from 622'-100'. TOOH LD tbg.
18. 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.
19. TIH w/ tbg to 100'. Pump 100' C1A cement plug from **100'-0' (Surface and freshwater.)** TOOH LD tbg.
20. Erect monument with API#, date plugged, and company name.
21. Reclaim location and road to WV-DEP specifications.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 5

47-109-00378  
Well: 150

*Beneville*

WELL RECORD

Permit No. WYO-378

Oil or Gas Well Gas  
(KIND)

Company United Producing Company, Inc.  
Address Box 1913, Charleston 27, W. Va.  
Farm W. M. Ritter Lumber Company Acres 67,182  
Location (waters) Horse Creek  
Well No. 120 (1984) Elev. 1204.47' d.f.  
District Baileysville County Wyoming  
The surface of tract is owned in fee by W. M. Ritter Lumber Co., 115 East Rich St. Address Columbus 15, Ohio  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling commenced October 15, 1952  
Drilling completed February 26, 1953  
Date Shot From 3497' To 3537'  
With 200 qts. nitroglycerine  
Open Flow 36/10ths Water in 1 Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume 63,000 Cu. Ft.  
Rock Pressure 425 lbs. 336 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water 35 feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	20'	20'	
10 3/4"	561'	561'	Size of
8 5/8"	1516'	1516'	
6 7/8"	2532'	2532'	Depth set
5 3/16"			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8" SIZE 35' No. Ft. 12-11-52 Date

COAL WAS ENCOUNTERED AT 672 FEET 4 1/8 INCHES  
\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	20			
Sand			20	60	Water	35'	Hole full
Lime		Broken	60	165			
Sand			165	285			
Lime			285	320			
Slate & Shells			320	390			
Lime			390	430			
Slate & Shells			430	531			
Sand			531	605			
Slate & Shells			605	672			
Coal			672	676			
Slate & Shells			676	780			
Sand			780	918			
Slate			918	928			
Sand			928	1010			
Slate			1010	1035			
Sand			1035	1120			
Slate			1120	1130			
Sand			1130	1225			
Slate			1225	1235			
Sand			1235	1245			
Slate			1245	1260			
Sand			1260	1290			
Slate & Shells			1290	1509			
Ravencliff Sand			1509	1565	Gas	1545'	
Lime			1565	1620			
Lime	Red		1620	1640			
Sand			1640	1708			
Red Rock			1708	1800			
Slate & Shells			1800	1870			
Sand			1870	2090	Gas	2025'	show
Slate & Shells			2090	2236			
Marion Sand			2236	2318			
Slate			2318	2345			
Lime			2345	2420			
Slate			2420	2465			
Little Lime			2465	2495			
Slate			2495	2522			
Big Lime			2522	2900	Gas	2640'	



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Formation	Color	Hard or Soft	Top <sup>5</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Injun Sand			2900	3000			47-109-00378 Well: 120
Sand		Broken	3000	3140			
Slate & Shells			3140	3477			
Shale	Brown		3477	3491			
Lime	Black		3491	3495			
Berea Sand			3495	3537			
Slate			3537				
TOTAL DEPTH				3548'			

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Environmental Protection

Date April 28, 19 53

APPROVED UNITED PRODUCING COMPANY, INC., Owner

By Bob Wilson  
General (Title) Superintendent,

05/28/2021

WW-4A  
Revised 6-07

1) Date: February 5, 2021  
2) Operator's Well Number: 120  
3) API Well No.: 47 - 109 - 00378

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

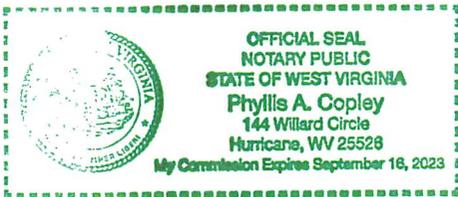
4) Surface Owner(s) to be served:	5) (a) Coal Operator:
(a) Name <u>Lyme Mountaineer Timberlands LLC</u>	Name _____
Address <u>23 S. Hanover Street</u>	Address _____
<u>Hanover, NH 03755</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	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>Pipestem, 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 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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Environmental Protection

Subscribed and sworn before me this 5th day of February, 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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<i>Domestic Mail Only</i>	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
<b>Handover - NH 03755</b>	
<b>OFFICIAL USE</b>	
Certified Mail Fee	\$3.60
Postage	\$1.40
<b>Total</b>	<b>\$7.85</b>
<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	
Sent to: <b>Well 120</b> Street: <b>Lyme Mountaineer Timberlands LLC</b> City, State, ZIP: <b>23 S. Hanover Street</b> <b>Hanover, NH 03755</b>	
PS Form 3800	Postmark Here 0523 03 02/05/2021
Instructions	

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WW-9  
(5/16)

4710900378P

API Number 47 - 109 - 00378  
Operator's Well No. 120

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Alliance Petroleum Company, LLC OP Code 494506333

Watershed (HUC 10) Horse Creek Quadrangle Pineville

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: \_\_\_\_\_

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 2D0550319 )
- 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: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

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 5th day of February, 20 21

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

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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: \_\_\_\_\_

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

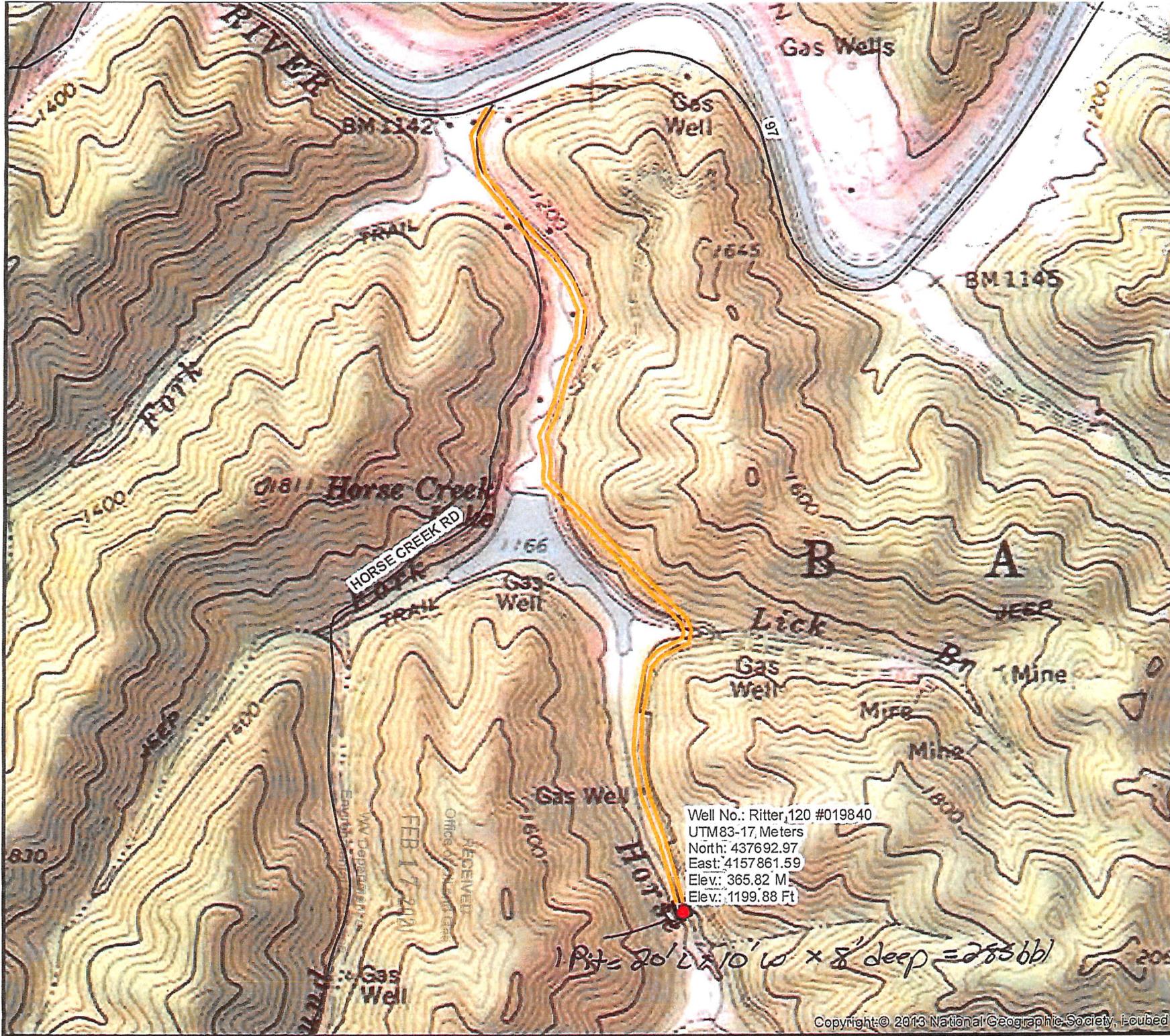
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Title: *Inspector*

Date: 2/8/21 FEB 17 2021

Field Reviewed? ( ) Yes ( ) No

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

RITTER 120 #019840

Plugging Map

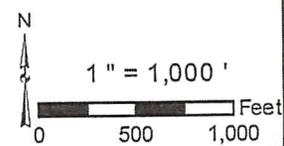
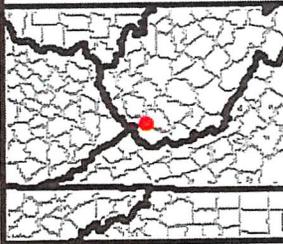
47-109-00378

**Legend**

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

*Handwritten signature*

47109003789



Well No.: Ritter, 120 #019840  
 UTM83-17, Meters  
 North: 437692.97  
 East: 4157861.59  
 Elev.: 365.82 M.  
 Elev.: 1199.88 Ft

*Pit = 20' L x 10' W x 8' deep = 288 bbl*



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

API: 47-109-00378 WELL NO.: 120

FARM NAME: Ritter, W.M. Lumber Company

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Wyoming DISTRICT: Baileysville

QUADRANGLE: Pineville

SURFACE OWNER: Lyme Mountaineer Timberlands

ROYALTY OWNER: Weyerhaeuser

UTM GPS NORTHING: 4,157,861.59

UTM GPS EASTING: 437,692.97 GPS ELEVATION: 1199'

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.

[Signature]  
Signature

Director Production  
Title

2/4/2021  
Date

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