



---

west virginia department of environmental protection

---

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, March 22, 2022  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for 2  
47-035-00421-00-00

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: 2  
Farm Name: RADER, B. F., ETAL  
U.S. WELL NUMBER: 47-035-00421-00-00  
Vertical Plugging  
Date Issued: 3/22/2022

I

4703500421P

## 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.

03/25/2022

47-035-00421P

WW-4B  
Rev. 2/01

1) Date March 4, 2022  
2) Operator's  
Well No. 2  
3) API Well No. 47-035-00421

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

RECEIVED  
Office of Oil and Gas  
MAR 15 2022

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

WV Department of  
Environmental Protection

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 830.61 feet Watershed Little Mill Creek  
District Ripley County Jackson Quadrangle Ripley

6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast  
Address 414 Summers Street Address 31 Hickory Drive  
Charleston, WV 25301 Barboursville, WV 25504

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Joe Taylor Name Diversified Production, LLC (In-house rig)  
Address 1478 Claylick Road Address 1951 Pleasantview Ridge Road  
Ripley, WV 25271 Ravenswood, WV 26164

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

See Attached

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

Work order approved by inspector  Date 3-10-22

03/25/2022

## Plugging Prognosis

4703500421<sup>A</sup>

API #: 4703500421

West Virginia, Jackson County

Lat/Long: 38.81446978, -81.62892333

Nearest ER: Jackson General Hospital, 122 Pinnell St, Ripley, WV 25271

### Casing Schedule

18" @ 25'

8-5/8" @ 2,144' (18 sacks of Aquagel)

7" @ 5,060' (cemented to 4,891 with 15 sx)

2" @ 5,165'

TD @ 5,180

Completion: Open hole completion, not perforated

Fresh Water: None Listed

Salt Water: 1,388'; 1,830' (Salt Sand 1,810'-1,925')

Gas Shows: 2,485'-2,495'; 4,100'; 5,093; 5,170'-5,178'

Oil Shows: None Listed

Coal: None Listed

Elevation: 836'



1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Pull 2" tbg and l/d.
4. Check TD w/ wireline.
5. TIH w/ tbg to 5,110'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 117' C1A cement plug from **5,110' to 4,993' (Completion, gas show and 7" csg shoe plug)**. Tag TOC. Top of as needed.
6. TOOH w/ tbg to 4,993'. Pump 6% bentonite gel from 4,993' to 4,100'.
7. Free point 7" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs list below. Perforate as needed.**
8. TOOH w/ tbg to 4,100'. Pump 100' C1A cement from **4,100' to 4,000' (Gas show plug)**.
9. TOOH w/ tbg to 4,000'. Pump 6% bentonite gel from 4,000' to 2,495'.
10. TOOH w/ tbg to 2,495'. Pump 110' C1A cement from **2,495' to 2,385' (Gas show plug)**.
11. TOOH w/ tbg to 2,385'. Pump 6% bentonite gel from 2,385' to 2,194'.
12. TOOH w/ tbg to 2,194'. Pump 434' C1A cement from **2,194' to 1,760' (8-5/8" csg shoe and salt sand/water plug)**.
13. TOOH w/ tbg to 1,760'. Pump 6% bentonite gel from 1,760' to 836'.
14. 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 list below. Perforate as needed.**
15. TOOH w/ tbg to 836'. Pump 100' C1A cement from **836' to 736' (elevation plug)**.
16. TOOH w/ tbg to 736'. Pump 6% bentonite gel from 736' to 100'.
17. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from **100'- surface' (Surface plug plug)**.
18. Reclaim well site and erect plugging monument to WV DEP specifications.

03/25/2022

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

4703500421P

*Ripley*

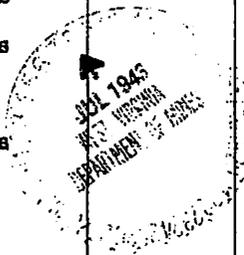
WELL RECORD

Permit No. JAC - 421

Oil or Gas Well Gas  
(XXXX)

Company <u>W. VA. GAS CORP &amp; SPARTAN GAS CORP</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Charleston, West Virginia</u>	Size			
Farm <u>B. F. Rader et al</u> Acres <u>160</u>	<u>18"</u>	<u>25' 4"</u>		Kind of Packer
Location (waters) <u>Mill Creek</u>	<u>18 3/8"</u>	<u>807' 1"</u>	<u>Pulled</u>	
Well No. <u>TWO</u> Elev. <u>835.7' LDF</u>	<u>10 3/4"</u>	<u>1215' 10"</u>	<u>"</u>	Size of
District <u>Ripley</u> County <u>Jackson</u>	<u>8 1/8"</u>	<u>(24#) 2144'</u>		Depth set
The surface of tract is owned in fee by <u>B. F. Rader, et al</u>	<u>6 3/8"</u>	<u>(28#) 5060'</u>		
Mineral rights are owned by <u>B. F. Rader, et al</u>	<u>5 3/16"</u>			Perf. top
Address	<u>3"</u>			Perf. bottom
Drilling commenced <u>Nov. 18, 1942</u>	<u>2"</u>	<u>(4#) 5165'</u>		Perf. top
Drilling completed <u>March 23, 1943</u>	Liners Used			Perf. bottom
Date Shot <u>Not Shot</u> From To				
With				
Open Flow <u>51</u> /10ths Water in <u>7" 22#</u> Inch				<u>18 Sacks Aquagel behind 85/8"</u>
/10ths Merc. in Inch				<u>CASING CEMENTED. SIZE No. Ft. Date</u>
Volume <u>3,080,000</u> Cu. Ft.				<u>15 Sacks Cement behind 7"</u>
Rock Pressure lbs hrs.				<u>COAL WAS ENCOUNTERED AT FEET INCHES</u>
Oil bbls, 1st 24 hrs.				<u>FEET INCHES FEET INCHES</u>
Fresh water feet feet				<u>FEET INCHES FEET INCHES</u>
Salt water <u>@ 1388</u> feet <u>1830</u> feet				<u>FEET INCHES FEET INCHES</u>

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			0	50			
Lime			50	110			
Red Rock			110	220			
Sand			220	240			
Lime			240	265			
Red Rock			265	290			
Sand			290	362			
Red Rock			362	470			
Lime			470	500			
Red Rock			500	530			
Lime Shells			530	565			
Red Rock			565	570			
Band			570	637			
Slate			637	642			
Lime			642	760			
Slate			760	770			
Pink Rock			770	780			
Lime			780	798			
Red Rock			798	812			
Lime Shells			812	816			
Red Rock			816	822			
Grey Lime			822	850			
Pink Rock			850	880			
Lime			880	904			
Red Rock			904	916			
Slate & Shells			916	949			
Lime			949	970			
Sand			970	995			
Slate & Shells			995	1014			
Red Rock			1014	1024			
Slate & Shells			1024	1040			
Lime			1040	1060			
Slate			1060	1082			
Sand (ID)			1082	1095			
Slate & Shells			1095	1180			
Sand			1180	1195			
Slate			1195	1200			
Dunkard Sand			1200	1250			



*[Handwritten signature]*

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1250	1305			
Sand			1305	1345			
Slate			1345	1353			
Sand			1353	1373			
Dark Slate			1373	1382			
Sand 1382			1382	1421	Water	1388	5 Bailers per hr
Slate			1421	1440			
Sand			1440	1457			
Slate Lime Shells			1457	1710			
Sand			1710	1728			
Slate			1728	1738			
Lime			1738	1790			
Slate			1790	1810			
Salt Sand			1810	1925	HFV	1830'	
Big Lime			1925	1975			
Injun Sand			1975	2087			
Slate			2087	2092			
Sand Shell			2092	2100			
Slate & Shells			2100	2485			
Berea Sand			2485	2495	Show Gas		
Slate & Shells			2495	3760			
Brown Shale			3760	3810			
Slate & Shells			3810	4000			
Brown Shale			4000	4350	Gas	4100'	
Slate			4350	4825			
Brown Shale			4825	4875			
Lime			4875	4890			
Slate			4890	4900			
Brown Shale			4900	4960			
Black Shale			4960	5042			
Corniferous Lime			5042	5155	Show Gas	5093	
Oriskany Sand			5155	5180	Gas	5170-5178	
Total Depth			5180				

Date July 6, 1943  
 APPROVED Spartan Gas Company, Owner  
 By William O. Sabers, President  
 (Title)  
 03/25/2022

WW-4A  
Revised 6-07

1) Date: March 4, 2022  
2) Operator's Well Number 2

3) API Well No.: 47 - 035 - 00421

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

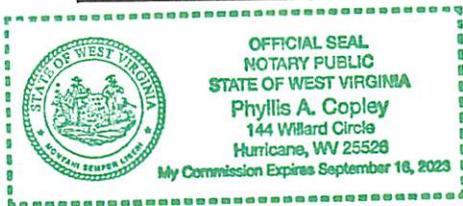
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Roy L. Miller</u>	Name <u>None</u>
Address <u>3597 Spencer Road</u>	Address _____
<u>LeRoy, WV 25252</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>No Declaration</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>304-380-7469</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 Technical Services  
 Address 414 Summers Street  
Charleston, WV 25301  
 Telephone 304-543-6988

Subscribed and sworn before me this 7th day of March, 2022  
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).

Well #2  
47-035-00421 P

7020 3160 0000 1694 9923

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

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

Le Roy, WV 25252

Certified Mail Fee	\$3.75		
\$	\$3.05		0510
Extra Services & Fees (check box, add fee as appropriate)			2
<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	\$1.56		
\$			
<b>Total Po</b>	<b>\$8.36</b>		
\$			
Sent To	Well 2 - 47-035-00421		
Street	Roy L. Miller		
City, Sta	3597 Spencer Road		
	LeRoy, WV 25252		
PS Form			

Postmark Here

03/08/2022

USPS-25510-9998

OFFICIAL USE

RECEIVED  
Office of Oil and Gas  
MAR 10 2022  
WV Department of  
Environmental Protection

03/25/2022

WW-9  
(5/16)

API Number 47 - 035 - 00421  
Operator's Well No. 2

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) Little Mill Creek Quadrangle Ripley

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.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number WC Booker #1 47-039-02327 Permit UIC2D0392327 002 )
- 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

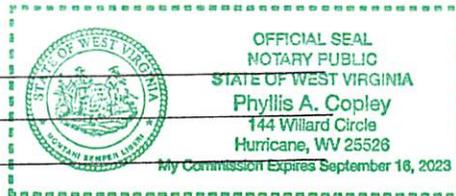
-Landfill or offsite name/permit number? N/A

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 Technical Services



Subscribed and sworn before me this 7th day of March, 2022

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

[Signature]  
3-0-22 03/25/2022

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.05

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:

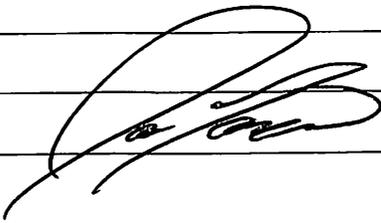
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Joe Taylor

Comments: \_\_\_\_\_

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



Title: 006 Trapped Date: 3-10-22

Field Reviewed?  Yes  No



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

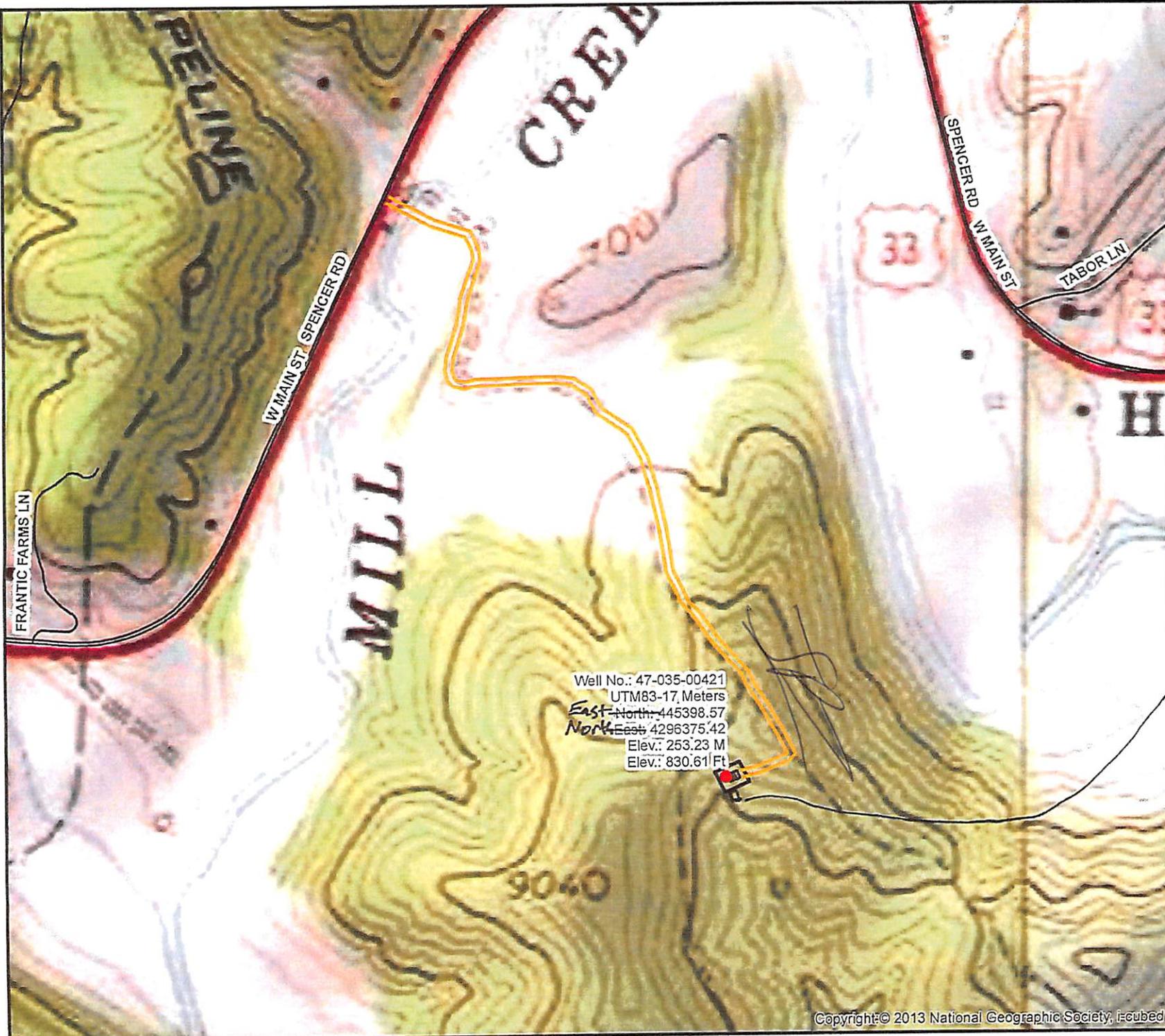
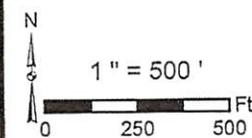
47-035-00421

Plugging Map

### Legend

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

1 Pit  
10' W  
20' L  
8' D  
285 bbl



Well No.: 47-035-00421  
UTM83-17, Meters  
East-North: 445398.57  
North-East: 4296375.42  
Elev.: 253.23 M  
Elev.: 830.61 Ft

4703500421

WW-7  
8-30-06



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

API: 47-035-00421 WELL NO.: 2

FARM NAME: B F Rader Et Al

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Jackson DISTRICT: Ripley

QUADRANGLE: Ripley

SURFACE OWNER: Roy L Miller

ROYALTY OWNER: DP Bluegrass LLC

UTM GPS NORTHING: 4296375.42

UTM GPS EASTING: 445398.57 GPS ELEVATION: 830.61

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.

Justin Suttler

Digitally signed by Austin Suttler  
Date: 2022.02.23 16:54:21  
-05'00'

Sr. Proj. Manager

2/23/2022

Signature

Title

Date

03/25/2022



Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

---

**Plugging Vertical Well Work Permit API: 47-035-00421 & 47-035-01007)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Tue, Mar 22, 2022 at 1:43 PM

To: "Mast, Jeff" &lt;jmast@dgo.com&gt;, Brian Thomas &lt;bkthomas@jacksoncountywv.com&gt;, beth.roberts@jacksoncountywv.com, "Taylor, Joseph D" &lt;joseph.d.taylor@wv.gov&gt;

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

**47-035-00421 - 2**  
**47-035-01007 - 1-S-1508**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**  
**Environmental Resource Specialist 3**  
**West Virginia Department of Environmental Protection**  
**Office of Oil & Gas**  
601 57th St. SE  
Charleston, WV 25304  
(304) 926-0499 ext. 41115  
(304) 926-0452 fax  
[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)

---

**3 attachments**

 **47-035-00421 - Copy.pdf**  
2138K

 **47-035-01007 - Copy.pdf**  
3117K

 **IR-8 Blank.pdf**  
228K

**03/25/2022**