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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, March 15, 2021  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

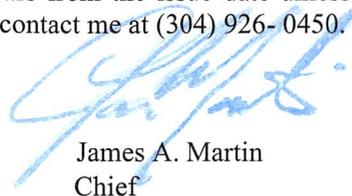
ALLIANCE PETROLEUM CO., LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for V. SHREWSBURY 1  
47-055-00188-00-00

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: V. SHREWSBURY 1  
Farm Name: SHREWSBURG, V. & G.  
U.S. WELL NUMBER: 47-055-00188-00-00  
Vertical Plugging  
Date Issued: 3/15/2021

## 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.

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### 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 3, 2021  
2) Operator's  
Well No. Shrewsbury V1  
3) API Well No. 47-055 - 00188

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 2576 Feet Watershed Marsh Fork  
District Rock County Mercer Quadrangle Moloaka

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 *Gary Kennedy* Date 2/5/21

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**PLUGGING PROGNOSIS**

API# 47-055-00188

West Virginia, Mercer County

37.488360741931, -81.1462832762598

Nearest ER: Princeton Community Hospital: 122 12<sup>th</sup> ST. Princeton, WV 24740

**Casing Schedule**

9 5/8" csg @ 20'

7" csg @ 462' cemented to surface w/ 70 sks

4 1/2" csg @ 4517' est TOC 2150' w/ 110 sks

TD 4780'

**Completion:** Frac

Berea/Weir 4164'-4676'

Lower Maxon 2396'-2440'

**Fresh Water:** 70'

**Gas Shows:** 2396', 4164'

**Oil Show:** No shows

**Coal:** None recorded

**Elevation:** 2577'

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 4676'. Kill well as needed with 6% bentonite gel. Pump 612' C1A cement plug from 4676'-4064' (Berea/Weir gas show). Tag TOC. Top off as needed. *OR ATTAINABLE BOTTOM ≈ 4480' ★*
5. ~~TOOH w/ tbg to 4396'. Pump 6% bentonite gel from 4064'-2577'.~~ *TOC ≈ 3864' ★* . *PUMP GEL FROM 3864' TO 2577'.*
6. TOOH w/ tbg to 2577'. Pump 281' C1A cement plug from 2577'-2296' (Elevation and Maxon gas).
7. TOOH w/ tbg to 2296'. Pump 6% bentonite gel from 2296'-512'. TOOH LD tbg.
8. Free point 4 1/2" 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.
9. TIH w/ tbg to 512'. Pump 100' C1A cement plug from 512'-412' (7" csg st).
10. TOOH w/ tbg to 412'. Pump 6% bentonite gel from 412'-120'.
11. TOOH w/ tbg to 120'. Pump 120' C1A cement plug from 120'-0' (Fresh water and Surface). TOOH LD tbg.
12. Erect monument with API#, date plugged, and company name.
13. Reclaim location and road to WV-DEP specifications.

★ WILL PROBABLY ONLY GET TO ≈ 4480' INSIDE 4 1/2" CASING, BOTTOM JOINT OF 4 1/2" PROBABLY FILLED W/ CEMENT.

*JMM*

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WR-35

07-May-98  
API # 47- 55-00188

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: V & G Shrewsbury Operator Well No.: V Shrewsbury #1

LOCATION: Elevation: 2,577.00 Quadrangle: MATOAKA

District: ROCK County: MERCER  
Latitude: 4235 Feet South of 37 Deg. 30Min. 0 Sec.  
Longitude 6400 Feet West of 81 Deg. 7 Min. 30 Sec.

Company: DOMINION APPALACHIAN DEVE  
P. O. BOX 1248  
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON  
Permit Issued: 05/07/98  
Well work Commenced: 6/11/98  
Well work Completed: 7,01/98  
Verbal Plugging  
Permission granted on: N/A  
Rotary X Cable Rig  
Total Depth (feet) 4780'  
Fresh water depths (ft) 70'  
Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N  
Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	20'	20'	0
7"	462'	462'	70 sacks
4 1/2"	4517'	4517'	190 sacks

TOC ≈ 2380' <sub>gpm</sub>

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OPEN FLOW DATA

Producing formation Berea/Weir Pay zone depth (ft) 4164-4676'  
Gas: Initial open flow 30 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 310 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 20 Hours  
Static rock Pressure 415 psig (surface pressure) after 72 Hours

Second producing formation Lower Maxton Pay zone depth (ft) 2396-2440  
Gas: Initial open flow \* MCF/d Oil: Initial open flow \* Bbl/d  
Final open flow \* MCF/d Final open flow \* Bbl/d  
Time of open flow between initial and final tests \* Hours  
Static rock Pressure \* psig (surface pressure) after \* Hours

\* Commingled

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Larry J. Cavallo  
DOMINION APPALACHIAN DEVELOPMENT, INC.

By: Larry J. Cavallo; Manager of Engineering  
Date: 1/19/99

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03/19/2021

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Shrewsbury VI  
47-055-00188  
page 2 of 2

ZONES	2	STAGE(S)	75 Q Foam	FRAC	DATE	7/1/98
		PERFS	HOLES	BBL	BP	ISIP
Berea/Weir		4164-4676	16	429 (foam)	937	1900
Lower Maxton		2396-2440	16	403 (foam)	1770	1081

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
OVERBURDEN			0	5	
SANDY SHALE			5	50	
SHALE			50	80	
SANDSTONE			80	140	
RED SHALE			140	220	
SANDSTONE SHALE			220	380	
SANDY SHALE			380	980	
RED SHALE			980	1052	
RAVENCLIFF			1052	1130	
SANDY SHALE			1130	1260	
RED SHALE			1260	1420	
SANDY SHALE			1420	1660	
SANDSTONE			1660	1680	
SANDY SHALE			1680	1895	
RED SHALE			1895	1905	
SANDY SHALE			1905	1920	
UPPER MAXTON			1920	2060	
SANDY SHALE			2060	2135	
MID MAXTON			2135	2200	
SANDY SHALE			2200	2370	
LOWER MAXTON			2370	2494	
SHALE			2494	2510	
BIG LIME			2510	3820	
SANDY SHALE			3820	4205	
WEIR			4171	4285	
SANDY SHALE			4285	4715	
BEREA			4715	4730	
SANDY SHALE			4730	4780	
TD				4780	

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Permitting  
JAN 22 1998  
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WW-4A  
Revised 6-07

1) Date: February 3, 2021

2) Operator's Well Number Shrewsbury V1

3) API Well No.: 47 - 055 - 00188

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

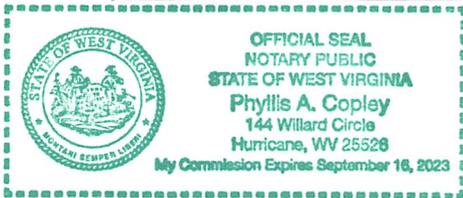
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Kolan V. Lilly</u>	Name _____
Address <u>1588 Camp Creek Road</u>	Address _____
<u>Camp Creek, WV 25820</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Kolan V. Lilly</u>
	Address <u>1588 Camp Creek Road</u>
	<u>Camp Creek, WV 25820</u>
(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>Pipeslem, 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: Alliance Petroleum Company, LLC  
 By: [Signature] Jeff Mast  
 Its: Director Production  
 Address: P.O. Box 6070  
Charleston, WV 25362  
 Telephone: 304-543-6988

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Subscribed and sworn before me this 3rd 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

4705500188P

Well: Shrewsbury VI

API: 47-055-00188

7017 1450 0002 3854 0986

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**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

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

Camp Creek, WV 25820

**OFFICIAL USE**

Certified Mail Fee	\$3.60	
Postage	\$1.40	
<b>Total Postage and Fees</b>	<b>\$7.85</b>	

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

Postmark Here  
0523 03  
02/03/2021

Sent To: Kolan V. Lilly  
 Street and Apt. No., or PO Box No.: 1588 Camp Creek Road  
 City, State, ZIP+4®: Camp Creek, WV 25820

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

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03/19/2021

WW-9  
(5/16)

API Number 47 - 055 - 00188  
Operator's Well No. Shrewsbury VI

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) Marsh Fork Quadrangle Maloaka

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.

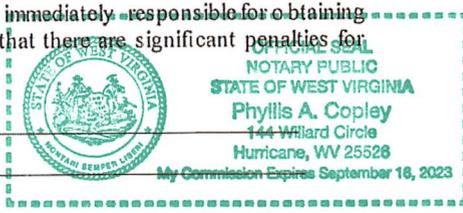
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 3rd day of February, 2021

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: *Greg Kennedy*

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

Title: *Inspection*

Date: *2/5/21*

Field Reviewed? ( ) Yes ( ) No

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**03/19/2021**

WW-7  
8-30-06



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

API: 4705500188 WELL NO.: V1  
 FARM NAME: V & G Shrewsbury  
 RESPONSIBLE PARTY NAME: Alliance Petroleum Co., LLC  
 COUNTY: Mercer DISTRICT: Rock  
 QUADRANGLE: Motoaka  
 SURFACE OWNER: Kolan V. Lilly  
 ROYALTY OWNER: Kolan V. Lilly Etal  
 UTM GPS NORTHING: 4,149,069.37  
 UTM GPS EASTING: 487,017.95 GPS ELEVATION: 2576'

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.

 Director Production 2/2/2021  
 Signature Title Date

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

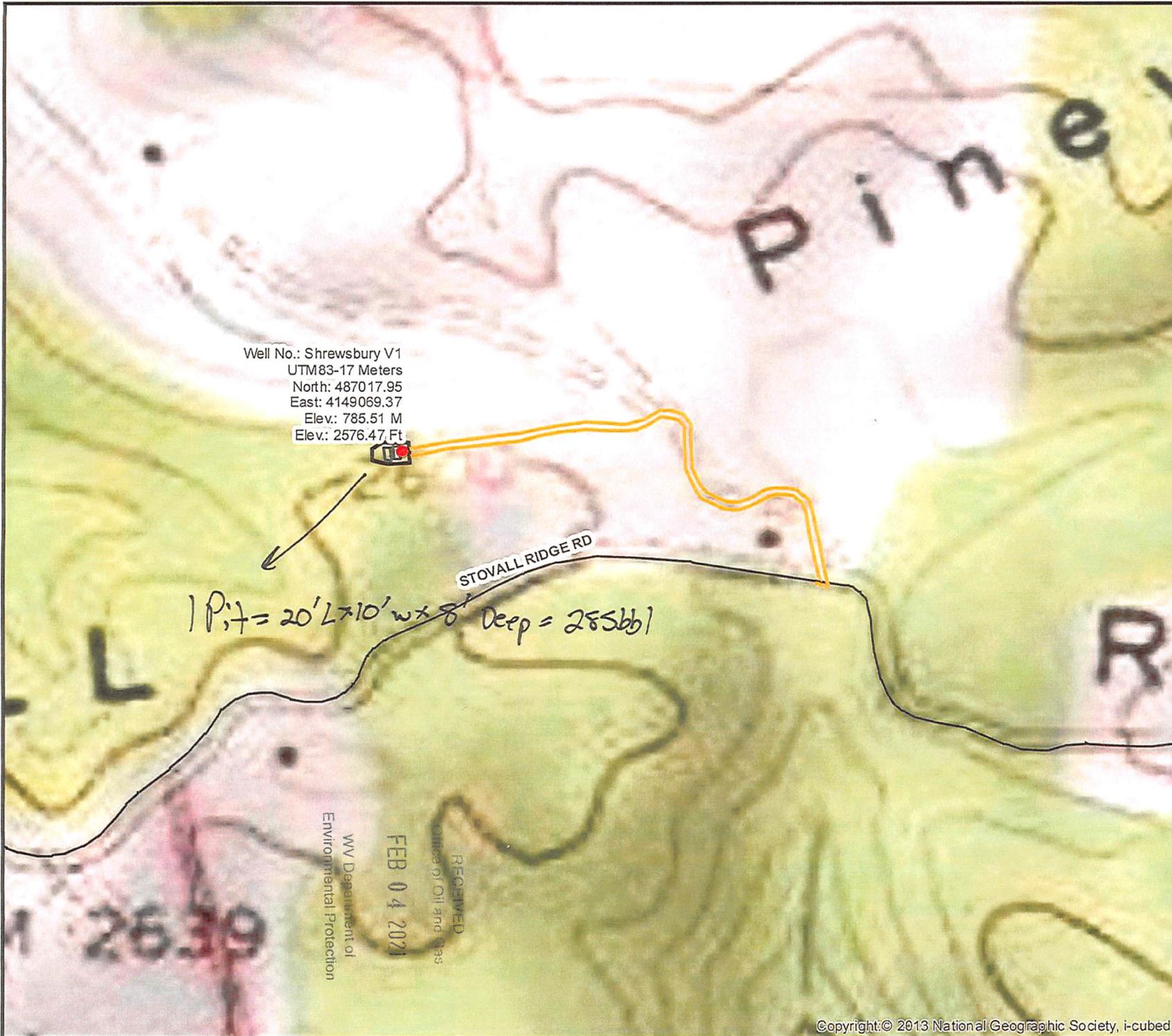
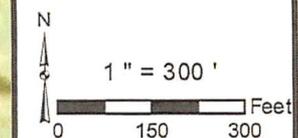
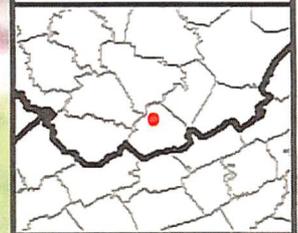
Shrewsbury V1

Plugging Map

47-055-6058

### Legend

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



Well No.: Shrewsbury V1  
UTM83-17 Meters  
North: 487017.95  
East: 4149069.37  
Elev.: 785.51 M  
Elev.: 2576.47 Ft

STOVALL RIDGE RD

1 Pit = 20' L x 10' w x 8' Deep = 285bb1

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