



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, June 17, 2021

WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for POCA B-42
47-109-01236-00-00

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: POCA B-42
Farm Name: POCAHONTAS LAND COMPA
U.S. WELL NUMBER: 47-109-01236-00-00
Vertical Plugging
Date Issued: 6/17/2021

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

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.

47-109-01236P

WW-4B
Rev. 2/01

1) Date May 26, 2021
2) Operator's Well No. POCA B-42 - 6293
3) API Well No. 47-109 - 01236

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 1,628 ft Watershed Still Run of Guyandotte River
District Slab Fork County Wyoming Quadrangle Mullens

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 R & J Well Services, Inc.
Address 66 Old Church Lane Address P.O. Box 40
Pipestem, WV 25979 Hueysville, KY 41640-0040

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

See Attached

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WV Department of
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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 5/28/21

06/18/2021

PLUGGING PROGNOSIS

API# 47-109-01236

West Virginia, Wyoming County

37.5834473755617, -81.4317987183108

Nearest ER: Welch Community Hospital, 454 McDowell ST, Welch, WV 24801

Casing Schedule

16" csg @ 36'

8 5/8" csg @ 471' CTS w/ 195 sks

5 1/2" csg @ 3119' cemented w/ 205 sks est TOC @ 1725'

1 1/2" tbg @ 2981' Arrow Shear Packer @ 1160' set with 8000 lbs tension set for 1200 lb shear TD 3837'

Completion: Frac**Fresh Water:** 128'**Salt Water:** 858'**Gas Shows:** Avis 1040'-1070', Weir 2998'-3008'**Oil Show:** None Recorded**Coal:** 125', 304', 440'**Elevation:** 1642'

1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.
2. Check and record pressures on csg and tbg.
3. Release packer and TOOH LD tbg and inspect.
4. RIH w wireline. Check TD
5. TIH w/ tbg to 3008'. Kill well as needed with 6% bentonite gel. Pump 110' C1A cement plug from **3008'-2898' (Weir gas show)**. Check TOC. Top off as needed.
6. TOOH w/ tbg to 2898'. Pump 6% bentonite gel from 2898'-1642'. TOOH LD tbg
7. Freepoint, cut, and pull 5 1/2" csg. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
8. TIH w/ tbg to 1642'. Pump 100' C1A cement plug from **1642'-1542' (Elevation)**.
9. TOOH w/ tbg to 1542'. Pump 6% bentonite gel from 1542'-1070'.
10. TOOH w/ tbg to 1070'. Pump 262' C1A cement plug from **1070'-808' (Avis gas show and salt water)**.
11. TOOH w/ tbg to 808'. Pump 6% bentonite gel from 808'-521'.
12. TOOH w/ tbg to 521'. Pump 100' C1A cement plug from **521'-390' (8 5/8" csg st & coal)**.
13. TOOH w/ tbg to 390'. Pump 6% bentonite gel from 390'-354'.
14. TOOH w/ tbg to 354'. Pump 100' C1A cement plug from **354'-254' (Coal)**.
15. TOOH to 254'. Pump 6% bentonite gel from 254'-178'.
16. TOOH w/ tbg to 178'. Pump 178' C1A cement plug from **178'-0' (Fresh water, coal, and surface)**. TOOH LD tbg.
17. Erect monument with API#, date plugged, and company name.
18. Reclaim location and road to WV-DEP specifications.



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FEB 11 92

Division of Energy
Oil and Gas Section

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
Well Operator's Report of Well Work Recorded

4710901236
12-Dec-91
API # 47-109-01236
CORRECTED 2/10/91

Reviewed TMC

Farm name: POCAHONTAS LAND COMPANY Operator Well No.: POCA B-42

Location: Elevation: 1642.84 Quadrangle: MULLENS

District: SLAB FORK County: WYOMING
Latitude: 15000 Feet South of 37 Deg. 37 Min. 30 Sec.
Longitude: 4400 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: CABOT OIL & GAS CORPORATION
P. O. Box 1473
Charleston, WV 25325

Agent: DAVID G. MCCLUSKEY

Inspector: RODNEY G. DILLON
Permit Issued: 12/06/91
Well Work Commenced: 12/16/91
Well Work Completed: 12/28/91
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 3837
Fresh water depths (ft) 128
Salt water depths (ft) 858

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	36'	36'	
8-5/8"	471'	471'	195 sks CL-A
5-1/2"	3119'	3119'	205 sks CL-A
1-1-2"		2981'	
Arrow Shear pkr set @ 1160' 9-5/8" Liner set 300'-360'			

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 125-128, 304-306 (open)
400-404

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 2998-3008
Gas: Initial open flow SSG MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 887 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 800 psig (surface pressure) after 192 Hours

Second Producing formation Avis Pay zone depth (ft) 1070-1140
Gas: Initial open flow SSG MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 387 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 320 psig (surface pressure) after 192 Hours

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: CABOT OIL & GAS CORPORATION

By: _____

Date: _____

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforate Weir 2998'-3008' 1 SPF (11 holes). Break down Weir w/500 gal 15% HCl and displ w/66,400 scf N₂ @ 9300 scfm. Treated w/85,000 lbs 20/40 sand & 572,000 scf N₂ in 75Q foam. Perforate Avis 1070'-1080' 1 SPF (11 holes) & 1130'-1140' 1 SPF (11 holes). Set Arrow SL shear pkr @ 1160' KB w/8000 lbs tension set for 1200 lbs shear.

FORMATION	TOP	BOTTOM
Sandstone	0	520
Pride Shale	520	810
Shale	810	845
Ravenclyff Sand	845	975
Shale	975	1015
Avis Limestone	1015	1065
Sandy Shale	1065	1850
Lower Maxton Sand	1850	2005
Little Lime	2005	2090
Shale	2090	2100
Big Lime	2100	2735
Sandy Shale	2735	2980
Weir	2980	3010
Sandy Shale	3010	3365
Sunburry Shale	3365	3390
Berea Sand	3390	3405
Sandy Shale	3408	3420
Fault	3420	3420
Sunburry Shale	3420	3445
Berea Sand	3445	3460
Sandy Shale	3460	3837

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WW-4A
Revised 6-07

1) Date: May 26, 2021
 2) Operator's Well Number: POCA B-42 - 6293
 3) API Well No.: 47 - 109 - 01236

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

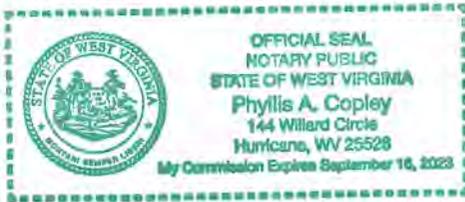
<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Pocahontas Surface Interest, Inc.</u> Address <u>800 Princeton Avenue</u> <u>Bluefield, VA 24701</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator</p> <p>Name <u>None</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Pocahontas Land Company</u> Address <u>800 Princeton Avenue</u> <u>Bluefield, WV 24701</u></p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>Wyoming Eagle LLC</u> Address <u>148 Bristol East Road</u> <u>Bristol, VA 24202</u></p>
<p>6) Inspector <u>Gary Kennedy</u> Address <u>66 Old Church Lane</u> <u>Pipestem, WV 25979</u> Telephone <u>304-382-8402</u></p>	

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
 Title: 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 26 day of May, 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.

4710901236

47-109-01236

Poca B-42

6293

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 Wyoming Eagle LLC
 Street and Apt. No., or PO Box No.
 148 Bristol East Rd
 City, State, ZIP+4®
 Bristol, VA 24202

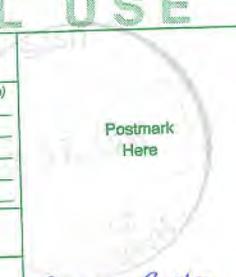
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Postage	\$	
Total Postage and Fees	\$	Poca B-42

Sent To
 Pocahontas Land + Pocahontas Surface
 Street and Apt. No., or PO Box No.
 800 Princeton Ave
 City, State, ZIP+4®
 Bluefield, VA 24701

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

ED
Office of Oil and Gas

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WV Department of
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06/18/2021

4710901236

WW-9
(5/16)

API Number 47 - 109 - 01236
Operator's Well No. Poca B-42 - 6293

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) Still Run of Guyandotte River Quadrangle Mullens

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 Mod)
- 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

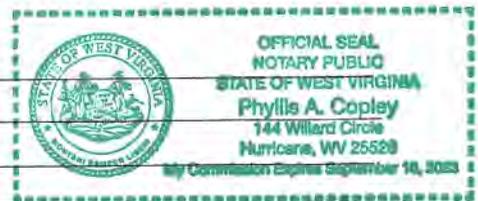
-Landfill or offsite name/permit number? N/A

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 Production



Subscribed and sworn before me this 26th day of May, 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: [Signature]

Comments: _____

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Title: Inspector Date: 5/28/21

Field Reviewed? () Yes () No



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

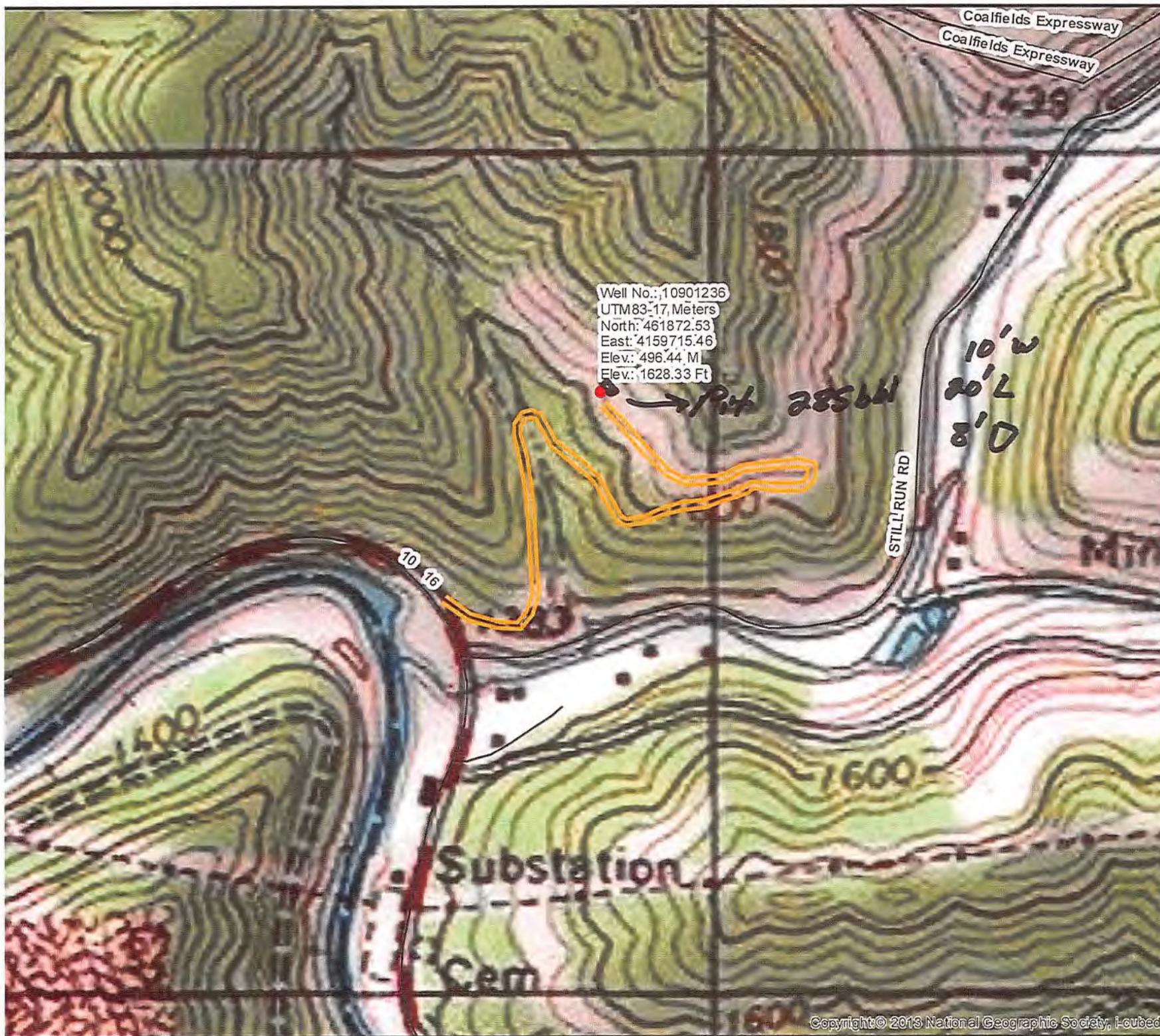
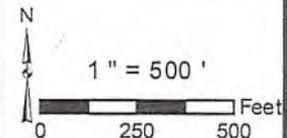
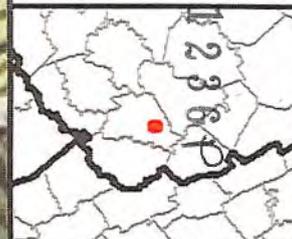
10901236

Plugging Map

Legend

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

4710901236



Well No.: 10901236
UTM83-17, Meters
North: 461872.53
East: 4159715.46
Elev.: 496.44 M
Elev.: 1628.33 Ft

Pit 2856W

10'w
20'L
8'D

STILL RUN RD

Substation

Cem

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-109-01236 WELL NO.: POCA B-42
 FARM NAME: Pocahontas Land Company
 RESPONSIBLE PARTY NAME: Diversified Production LLC
 COUNTY: Wyoming DISTRICT: Slab Fork
 QUADRANGLE: Mullens
 SURFACE OWNER: Pocahontas Surface Interest Inc
 ROYALTY OWNER: Pocahontas Land Company
 UTM GPS NORTHING: 4,159,715.46
 UTM GPS EASTING: 461,872.53 GPS ELEVATION: 1628'

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

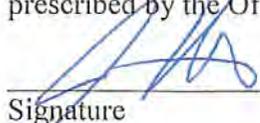
4. Letter size copy of the topography map showing the well location.

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.

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 Director Production 05/03/2021
Signature Title Date

06/18/2021