



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

Wednesday, May 4, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for PKN 903
47-035-02506-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: PKN 903
Farm Name: BURDETTE, RAY & DORTHA
U.S. WELL NUMBER: 47-035-02506-00-00
Vertical Plugging
Date Issued: 5/4/2022

Promoting a healthy environment.

05/06/2022

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.

4703502506P

1) Date March 4, 2022
2) Operator's
Well No. PKN 903
3) API Well No. 47-035 - 02506

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 963.77 feet Watershed Sugarcamp Hollow
District Ravenswood County Jackson Quadrangle Sandyville

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

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Office of Oil and Gas

MAR 14 2022

WV Department of
Environmental Protection

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

Work order approved by inspector  Date 3-11-22

05/06/2022

Plugging Prognosis

API #: 4703502506

West Virginia, Jackson County

Lat/Long: 38.96110386, -81.73752777

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

Casing Schedule

9 5/8" @ 272' (Cemented to surface w/ 125 sx)

7" @ 2,036' (Cemented to surface w/ 350 sx)

4 1/2" @ 4,042' (Cemented to 3000' w/ 86 sx)

TD 4,042'

Completion: Perforated the Brown Shale from 3,488'-3,984' using 40 holes.

Fresh Water: 670'

Salt Water: 1,780'

Gas Shows: 2,335'-2,337', 2,880', 3,870'

Oil Shows: No shows

Coal: No shows

Elevation: 881'

1. Notify Inspector Joe Taylor @ 304-380-7469, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. TIH w/ tbg to 3,984'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 596' C1A cement plug from **3,984' to 3,388' (Dev. Brown Shale completion and Brown Shale Gas show plug)**. Tag TOC. Top of as needed.
5. TOOH w/ tbg to 3,388'. Pump 6% bentonite gel from 3,388' to 2,880'.
6. TOOH w/ tbg to 2,880'. Pump 100' C1A cement from **2,880' to 2,780' (Shale Gas Show Berea plug)**.
7. TOOH w/ tbg to 2,780'. Pump 6% bentonite gel from 2,780' to 2,337'
8. TOOH w/ tbg to 2,337'. Pump 102' C1A cement from **2,337' to 2,235' (Berea Gas Show plug)**.
9. TOOH w/ tbg to 2,086'. Pump 6% bentonite gel from 2,235' to 2,086'
10. 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 list below. Perforate as needed.
11. TOOH w/ tbg to 2,086'. Pump 100' C1A cement plug from **2,086' to 1,986' (7" Csg shoe plug)**.
12. TOOH w/ tbg to 1,986'. Pump 6% bentonite gel from 1,986' to 1,830'.
13. TOOH w/ tbg to 1830'. Pump 100' C1A cement plug from **1830' to 1730' (saltwater show plug)**.
14. TOOH w/ tbg to 1730'. Pump 6% bentonite gel from 1730' to 881'.
15. TOOH w/ tbg to 881'. Pump 261' C1A cement plug from **881' to 620' (elevation and freshwater show plug)**.
16. TOOH w/ tbg to 620'. Pump 6% bentonite gel from 620' - 322'.
17. TOOH w/ tbg to 322'. Pump 100' C1A cement plug from **322'- 222' (9 5/8" csg shoe plug)**.
18. TOOH w/ tbg to 220'. Pump 6% bentonite gel from 222' - 100'
19. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from **100'- surface' (Surface plug plug)**.
20. Reclaim well site and erect plugging monument to WV DEP specifications.

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05/06/2022

47035025064

WR-35

30-May-01
API# 47-035-02506

STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas

MB

WELL OPERATOR'S REPORT of WELL WORK

Farm Name: BURDETTE, RAY & DORTHA Operator Well No.: PKN 903

Location: Elevation: 881 7.5' Quad.: SANDYVILLE

District: RAVENSWOOD County: JACKSON
Latitude: 14100 Feet South of 39 Deg. 00 Min. 00 Sec.
Longitude: 8450 Feet West of 81 Deg. 42 Min. 30 Sec.

Company: North Coast Energy Eastern, Inc.
P. O. BOX 8
RAVENSWOOD, WV 26164

Agent: David L. Cox

Inspector: LARRY PARRISH

Permit Issued: 05/30/01

Well Work Commenced (spud): 11/09/01

Well Work Completed (T.D.): 11/15/01

Verbal Plugging

Permission Granted on:

Rotary Cable Rig

Total Depth (feet): 4099

Fresh Water Depths (feet):

? base of Pittsburgh Sand at 670'

Salt Water Depths (feet):

1780'

Is coal being mined in area? No

Coal Depths (ft): None present

Casing & Tubing (Size-O.D.)	Used in Drilling (feet)	Left in Well (feet)	Cement Type (sacks)
9 5/8"	272	272	125 SX Class A Cement
7"	2036	2036	350 SX Class A Cement
4 1/2"		4042	86 SX GSB Cement

Office of Oil and Gas
MAY 18 2002
WV Department of Environmental Protection

OPEN FLOW DATA

Producing formation DEV. BROWN SHALE Pay zone depth (ft) 3488-3984
Gas: Initial open flow 300 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 150 MCF/D Final open flow 0 BBL/D
Time of open flow between initial and final tests 20 Hours
Static rock pressure 400 psig (surface pressure) after 19 Days

2nd producing form. Pay zone depth (ft) _____
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 _____ Days

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 GEOLOGIC RECORD OF ALL FORMATIONS, INCLUDING COAL, ENCOUNTERED BY THE WELLBORE.

For: NORTH COAST ENERGY Eastern, Inc.
By: David L. Cox, Manager of Geology
Date: 5/10/2002

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MAR 14 2002

WV Department of Environmental Protection

JAC 2506

05/06/2022

4703502506P

WR-35
(Reverse)

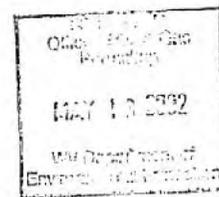
API / Permit #: 47-035-02506
North Coast Well #: PKN 903
Elevation: 881GL 891KB

DETAILS OF PERFORATING, FRACTURING, OR PHYSICAL CHANGE, ETC.

PERFORATED THE BROWN SHALE FROM 3488 TO 3984 USING 40 HOLES.
FRAC'D THE BROWN SHALE WITH 52,428# SAND, 500 GAL. ACID, & 366,000
SCF OF NITROGEN and 132 BBL WATER.

WELL LOG

ROCK TYPE OR FORMATION NAME	TOP	BOTTOM	REMARKS
(All depths taken from KB)			
SHALE	0	386	
SAND	386	436	
SHALE	436	628	
PITTSBURGH (?) SAND	628	670	
SHALE W/ SAND STRINGERS	670	1150	
SAND	1150	1440	
SHALE	1440	1735	
SALT SANDS	1735	1882	
BIG LIME (GREENBRIER)	ABSENT		
BIG INJUN SAND	ABSENT		
SHALE	1882	2312	
COFFEE SHALE (SUNBURY)	2312	2335	
BEREA SAND	2335	2337	slight s/gas
SHALE	2337	3438	s/gas @ 2880'
BROWN SHALE (LOWER HURON)	3438	3982	s/gas @ 3870'
SHALE (JAVA)	3982	4099	
TOTAL DEPTH (LOGGERS')	4099		
TOTAL DEPTH (DRILLERS')	4099		



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MAR 14 2022

WV Department of
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05/06/2022

WW-4A
Revised 6-07

1) Date: March 4, 2022
2) Operator's Well Number
PKN 503
3) API Well No.: 47 - 035 - 02508

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

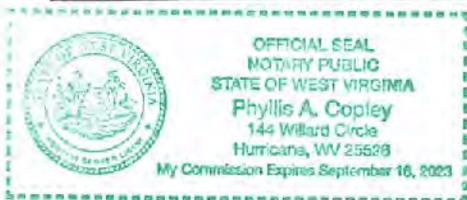
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Justi and Jamie Meadows</u>	Name <u>None</u>
Address <u>1996 Utah Road</u>	Address _____
<u>Ravenswood, WV 26164</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
_____	Address _____
_____	_____
(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 Strret
Charleston, WV 25301
 Telephone 304-543-6988

Subscribed and sworn before me this _____ day of _____

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.

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WV Department of
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4703502506P

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For delivery information, visit our website at www.usps.com.
 Ravenswood, WV 26164

OFFICIAL USE

Certified Mail Fee	\$3.75	0510
\$	\$3.05	2
Extra Services & Fees (check box, add fee if 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	\$1.56	
\$	\$8.36	
Total Per	\$8.36	
Sent To	PKN 903	
Street or	Justi and Jamie Meadows	
City, State	1996 Utah Road	
	Ravenswood, WV 26164	
PS Form		uctions

Postmark Here: MAR 08 2021
 03/08/2022
 USPS-25510-999

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 MAR 10 2022
 WV Department of
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05/06/2022

WW-9
(5/16)

API Number 47 - 035 - 02506
Operator's Well No. PKN 903

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) Sugarcamp Hollow Quadrangle Sandyville

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 UIC2D03S2327 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.

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MAR 14 2022

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 _____ day of _____, 2022

Notary Public

[Signature]
3-11-22

My commission expires September 16, 2023

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:

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MAR 14 2022

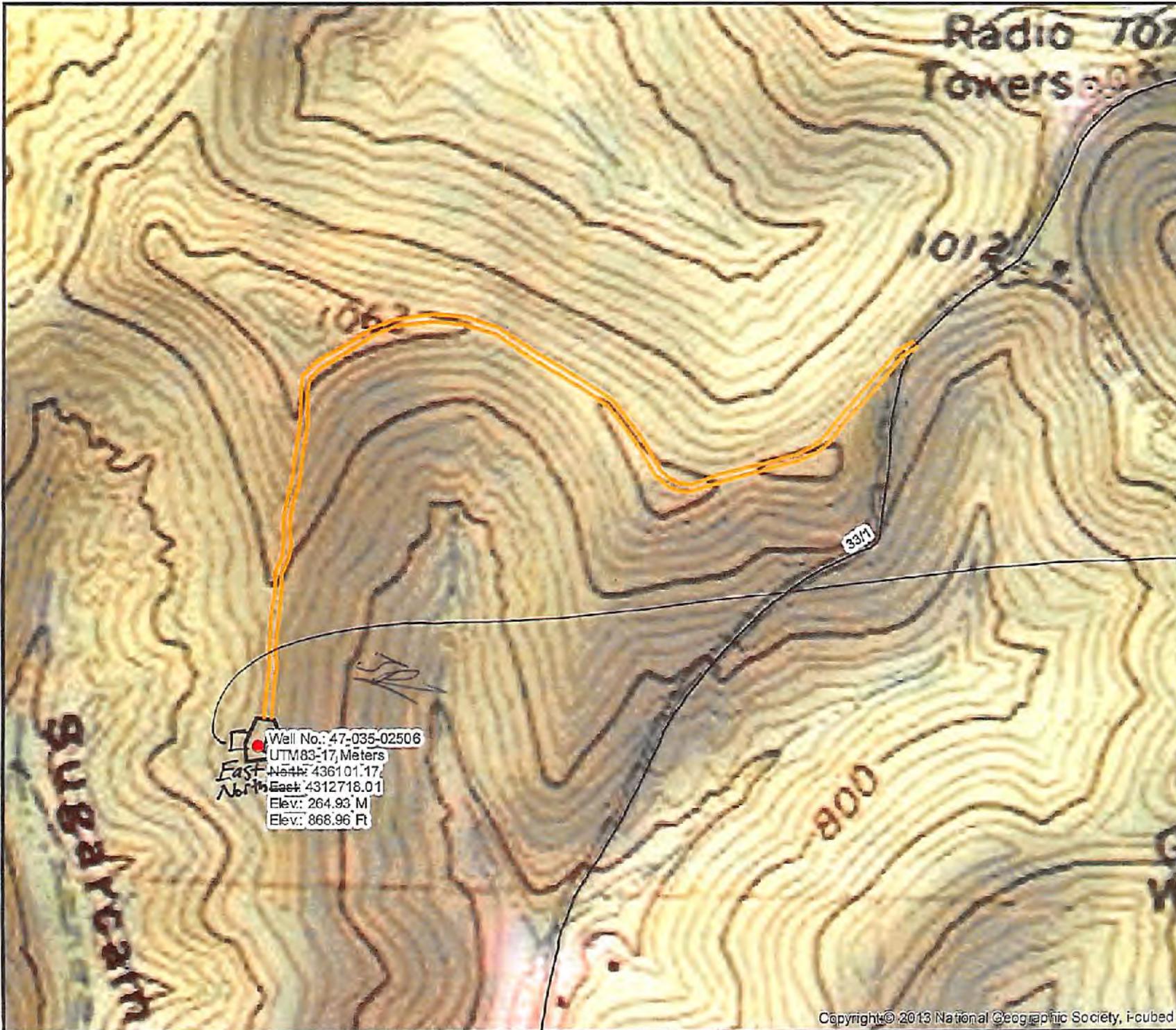
WV Department of Environmental Protection

[Signature]

Title: 006 Inspects

Date: 3-11-22

Field Reviewed? (X) Yes () No



DIVERSIFIED
 energy
 100 Diversified Way
 Pikeville KY, 41051

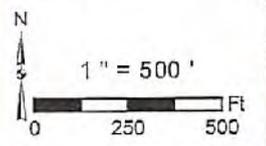
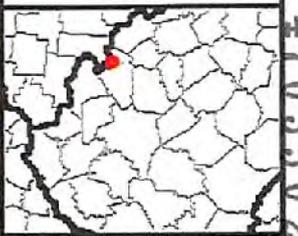
47-035-02506

Plugging Map

Legend

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

→ Pit
 10' W
 20' L
 8' D
 285 bbl



4703502506



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

API: 47-035-02506 WELL NO.: PKN 903

FARM NAME: Ray Dorothy Burdette

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Jackson DISTRICT: Ravenswood

QUADRANGLE: Sandyville

SURFACE OWNER: Justi L & Jami A. Meadows

ROYALTY OWNER: DP Bluegrass LLC

UTM GPS NORTHING: 4305223.34

UTM GPS EASTING: 449609.09 GPS ELEVATION: 963.77

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.

Justin Suter

Digitally signed by Justin Suter
Date: 2022.02.25 15:29:29 -0500

Sr. Proj. Manager

2/25/2022

Signature

Title

Date

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WV Department of
Environmental Protection

[Handwritten Signature]
05/06/2022



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

Plugging Vertical Well Work Permit (API: 47-035-01738, 01780, 02506)

1 message

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

Wed, May 4, 2022 at 11:09 AM

To: "Mast, Jeff" <jmast@dgoc.com>, Phyllis Copley <pcopley@dgoc.com>, Brian Thomas <bktomas@jacksoncountywv.com>, beth.roberts@jacksoncountywv.com, "Taylor, Joseph D" <joseph.d.taylor@wv.gov>

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

47-035-01738 - KEM-237**47-035-01780 - KEM-287****47-035-02506 - PKN 903**

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**

4 attachments **47-035-01780 - Copy.pdf**
788K **47-035-01738 - Copy.pdf**
850K **IR-8 Blank.pdf**
237K **47-035-02506 - Copy.pdf**
946K**05/06/2022**