



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

Tuesday, September 21, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for 1325
47-047-01170-00-00

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: 1325
Farm Name: BERWIND LAND CO.
U.S. WELL NUMBER: 47-047-01170-00-00
Vertical Plugging
Date Issued: 9/21/2021

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PERMIT CONDITIONS

4704701170P

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.

09/24/2021

4704701170P
1) Date August 11, 2021
2) Operator's Well No. 1325
3) API Well No. 47-047 - 01170

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 2238 ft Watershed Suke Creek
District Browns Creek County McDowell Quadrangle Gilbert

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 Name Gary Kennedy
Address 66 Old Church Road
Pipestem, WV 25979
9) Plugging Contractor Name R & J Well Services
Address P.O. Box 40
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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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 Gary Kennedy Date 8/24/21

09/24/2021

PLUGGING PROGNOSIS

1325

West Virginia, McDowell County

API# 47-047-01170

Lat/Long: 37.4896630776575, -81.5651438036603

Nearest ER: Welch Community Hospital 454 McDowell St. Welch, WV 24801 304-436-8461

Completed by S.T.

Updated 5/21/2020

Casing Schedule

11 3/4" csg @ 25'

7" csg @ 1388' cemented to surface

4 1/2" csg @ 3839' Perfs 2602'-2674', 3271'-3710' est. TOC @ 540'

TD 3930'

Completion: Frac

- Maxon 2602'-2674'
- Big Lime 3271'-3710'

Fresh Water: 80'**Gas Shows:** Maxon 2602'-2674', Big Lime 3271'-3710'**Coal:** 425', 1255'**Elevation:** 2234'

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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 3710'. Load well as needed w/ 6% bentonite gel. Pump 539' C1A cement plug from **3710'-3717' (Lime gas show)**.
5. TOOH w/ tbg to 3172'. Pump 6% bentonite gel **3172'-2674'**.
6. TOOH w/ tbg to 2674'. Pump 172' C1A cement plug from **2674'-2502' (Maxon gas show)**.
7. TOOH w/ tbg to 2502'. Pump 6% bentonite gel **2502'-2234'**.
8. TOOH w/ tbg to 2234'. Pump 100' C1A cement plug from **2234'-2134' (Elevation.)**
9. TOOH w/ tbg to 2134'. Pump 6% bentonite gel **2134'-475'**. TOOH LD tbg.
10. Free Point 4.5" csg. Cut and Pull. Set 100' C1A cement plug across csg Cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed
11. TIH w/ tbg to 475'. Pump 100' C1A cement plug from **475'-375' (Coal)**.
12. TOOH w/ tbg to 375'. Pump 6% bentonite gel **375'-130'**.
13. TOOH w/ tbg to 130'. Pump 130' C1A cement plug from **130'-0' (Fresh Water and surface)**.
14. Erect monument with API#, date plugged, and company name.
15. Reclaim location and road to WV-DEP specifications.

09/24/2021

4704701170P

WR-35

15-JUN-92
API #47-47-01170

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

Reviewed TMG
Recorded CH

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Well Operator's Report of Well Work

Farm Name: CAPLES RESOURCES, INC.

Operator Well No: 1205
Office of Oil & Gas

LOCATION: Elevation: 2234.0 Quadrangle: WELCH

District: BROWNS CREEK County: MCDOWELL
Latitude: 3700 Feet South of 37 Deg. 30 Min. 00 Sec.
Longitude 6900 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: MERIDIAN EXPLORATION CORP.
2800 GULF TOWER
PITTSBURGH, PA 15219-0000

Agent: JOHN O. KIZER (C T CORP)

Inspector: OFIE HELMICK
Permit Issued: 06/22/92
Well work Commenced: 7/21/92
Well work Completed: 7/29/92
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) DTD: 3950' LTD: 3930'
Fresh water depths (ft) 80'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11-3/4"	25'	25'	
7"	1387.6'	1387.6'	272
4-1/2"	3838.8'	3838.8'	340

Salt water depths (ft) N/A

Is coal being mined in area(Y/N)? N
Coal Depths (ft): 425-430, 1255-1265

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth (ft) 3271-3710
Gas: Initial open flow 196 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 196 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 570 psig (surface pressure) after 24 Hours

Second producing formation Lower Maxton Pay zone depth (ft) 2674-2602
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A 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: Karl C. Kimmich
MERIDIAN EXPLORATION CORP.

By: Karl C. Kimmich

09/24/2021

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MCDOWELL 1170

CAPLES RESOURCES, INC. 1325

API #47-47-01170

PERFORATED INTERVALS

3271' - 3279'
 3367' - 3369'
 3375' - 3377'
 3695' - 3710'
 2602' 2607'
 2610' - 2612'
 2615' - 2618'
 2668' - 2674'

FIRST STAGE (Big Lime)

=====
 Acid Treatment
 BKDN 1750 PSI
 AVE TRT 12 BPM @ 1450 PSI
 ISIP (FRAC) 1300
 SAND (20/40) N/A
 H₂O (BBL) 304
 N₂ (SCF) 77,500
 ACID: 392 BBL 15% HCL

SECOND STAGE (Lower Maxton)

=====
 BKDN 1488 PSI
 AVE TRT 30 BPM @ 2800 PSI
 ISIP (FRAC) 1955
 SAND (20/40) 64,100#
 H₂O (BBL) 230
 N₂ (SCF) 345,800

=====
FORMATIONS TOPS BOTTOMS WATER AND GAS CHECKS
 =====

0-20' Alluvium
 20-100' Sand
 100'-195' Shale
 195'-220' Sand
 220'-310' Shale
 310'-365' Sand
 365'-405' Sand & Shale Interbedded
 405'-425' Sand
 425'-430' Coal
 430'-450' Shale
 450'-655' Sand
 655'-700' Shale
 700'-785' Sand
 785'-840' Shale
 840'-1085' Sand
 1085'-1130' Shale
 1130'-1210' Sand with Some Shale
 1210'-1230' Shale
 1230'-1255' Sand
 1255'-1265' Coal
 1265'-1410' Interbedded Sands & Shale
 1410'-1465' Shale
 1465'-1505' Sand
 1505'-1535' Sand & Shale Interbedded
 1535'-1685' Shale
 1685'-1705' Sand
 1705'-1965' Shale
 1965'-2045' Ravenclyff Sand
 2045'-2095' Shale
 2095'-2145' Avis Lime
 2145'-2575' Shale with Some Interbedded Shale
 2575'-2705' Maxton Sand
 2705'-2950' Shale Some Sand
 2950'-3055' Lower Maxton Sand
 3055'-3095' Shale
 3095'-3185' Little Lime
 3185'-3260' Shale
 3260'-3730' Big Lime
 3730'-3930' Sand with Some Shale
 3930' Total Depth

H₂O: 80' - 1/4" Stream

GAS CHECKS: 2070' : NS
 2700' : NS
 TD: NS
 Collars Odor

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 Environmental Protection

15101

47047011709

WW-4A
Revised 6-07

1) Date: August 19, 2021
2) Operator's Well Number
1325

3) API Well No.: 47 - 047 - 01170

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>McDowell County Economic Development Authority</u>	Name <u>None</u>
Address <u>92 McDowell Street, Suite 100</u>	Address _____
<u>Welch, WV 24801</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Berwind Land Company</u>
_____	Address <u>300 Summers Street, Suite 1050</u>
_____	<u>Charleston, WV 25301</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>Pipestem, WV 25979</u>	Address _____
Telephone <u>304-382-8402</u>	_____

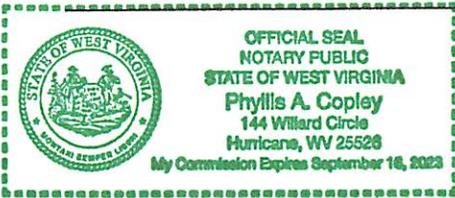
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TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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

Subscribed and sworn before me this 20th day of August, 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.

09/24/2021

Well 1325
47-047-01170P

7020 2450 0001 5225 2683

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Welch, WV 24801

OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fees as appropriate)	\$2.85
<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	\$1.40
Total Postage and Fees	\$7.85

0523
01
Postmark Here

08/23/2021

Sent To: Well 1325 (surface)
 Street and: McDowell County Economic Dev Authority
 City, State: 92 McDowell Street, Suite 100
 Welch, WV 24801

PS Instructions

7019 1640 0000 1003 2660

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Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Charleston, WV 25301

OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fees as appropriate)	\$2.85
<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	\$1.40
Total Postage and Fees	\$7.85

0523
01
Postmark Here

08/23/2021

Sent To: Well 1325 (Coal)
 Street and: Berwind Land Company
 City, State: 300 Summers Street, Suite 1050
 Charleston, WV 25301

PS Form Instructions

09/24/2021

4704701170P

WW-9
(5/16)

API Number 47 - 047 - 01170
Operator's Well No. 1325

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) Suke Creek Quadrangle Gilbert

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 2D 04701511002 Mod)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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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.

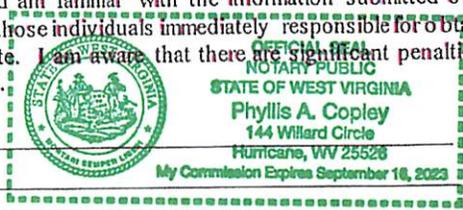
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 20th day of August, 2021

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

09/24/2021

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.

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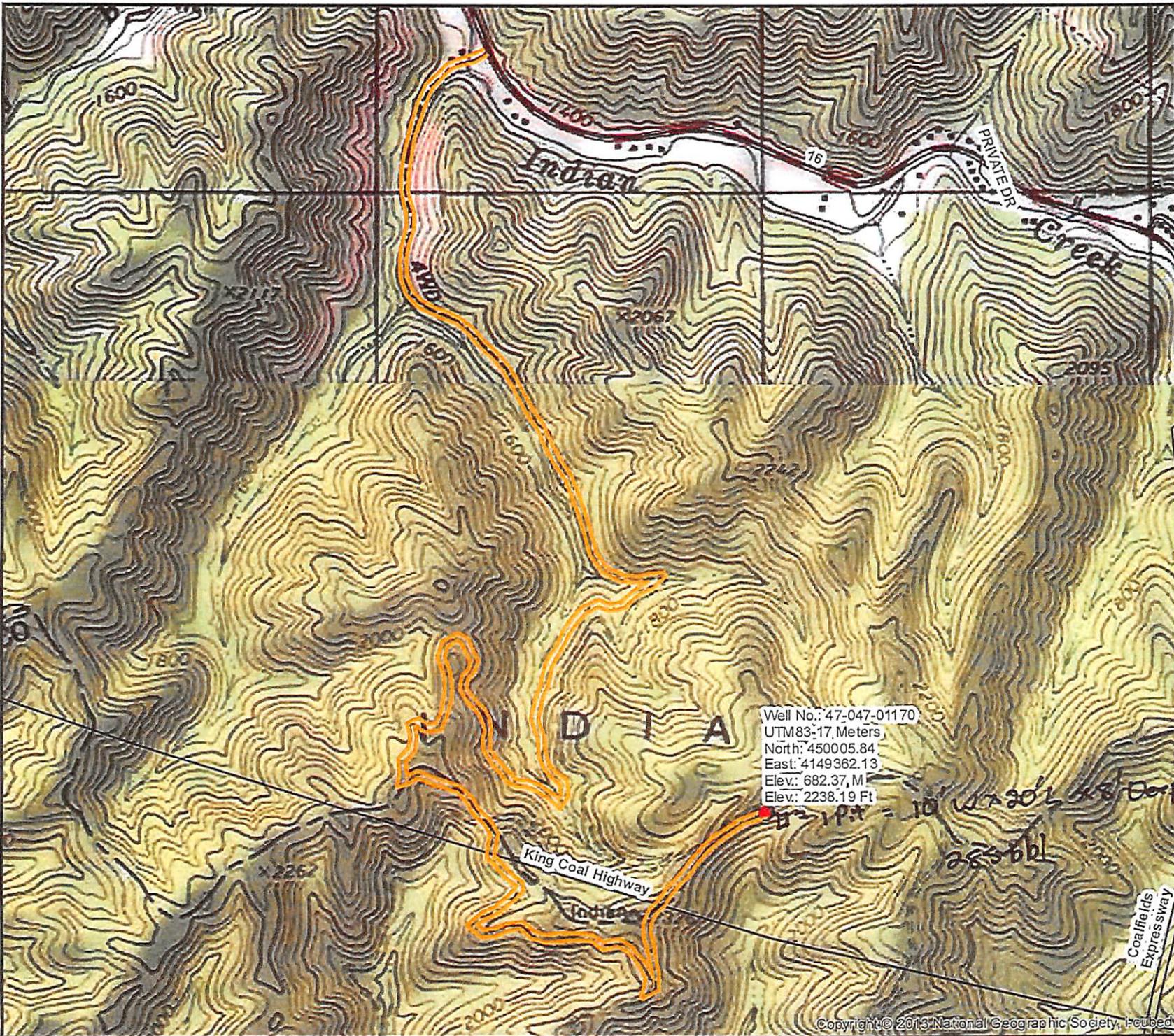
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Plan Approved by: [Signature]

Comments:

Title: Inspector Date: 8/24/21

Field Reviewed? () Yes () No



Well No.: 47-047-01170
 UTM83: 17, Meters
 North: 450005.84
 East: 4149362.13
 Elev.: 682.37, M
 Elev.: 2238.19 Ft



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

47-047-01170

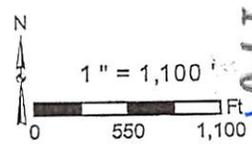
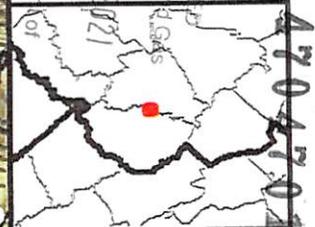
Plugging Map

Energy 1149534

Legend

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

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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-047-01170 WELL NO.: 1325

FARM NAME: Berwind Land Company

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: McDowell DISTRICT: BROWNS CREEK

QUADRANGLE: Gilbert

SURFACE OWNER: The McDowell County Economic Development Authority

ROYALTY OWNER: Diversified Production LLC

UTM GPS NORTHING: 4,149,362.1

UTM GPS EASTING: 450,005.8 GPS ELEVATION: 2238"

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

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 8/19/21
Signature Title Date

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AUG 30 2021
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Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permit (API: 47-017-01170)

1 message

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

Wed, Sep 22, 2021 at 8:10 AM

To: "Mast, Jeff" <jmast@dgo.com>, "Ward, Samuel D" <samuel.d.ward@wv.gov>, David Sponaugle <dsponaug@assessor.state.wv.us>

I have attached a copy of the newly issued well [permit](#) number "1325", **API (47-017-01170)**. This will serve as your copy.

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

2 attachments

 **IR-8 Blank.pdf**
157K

 **47-017-01170 - Copy.pdf**
3455K

09/24/2021