



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

Monday, July 12, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE
JACKSON CENTER, PA 16133

Re: Permit approval for 5172
47-079-00886-00-00

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: 5172
Farm Name: SWEETLAND, J. L.
U.S. WELL NUMBER: 47-079-00886-00-00
Vertical Plugging
Date Issued: 7/12/2021

Promoting a healthy environment.

07/16/2021

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.

- 1) Date June 30, 2021
- 2) Operator's
Well No. 805172
- 3) API Well No. 47-079 - CO886

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 / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow
- 5) Location: Elevation 723 ft Watershed Big Creek
District Curry County Putnam Quadrangle Hamlin
- 6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast
Address P.O. Box 6070 Address P.O. Box 6070
Charleston, WV 25979 Charleston, WV 25362
- 8) Oil and Gas Inspector to be notified Name Joe Taylor
Address 1478 Claylick Road  Ripley, WV 25271
- 9) Plugging Contractor Name Diversified Production, LLC (In-house Rig)
Address 1951 Pleasantview Ridge Road
Ravenswood, WV 26164

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

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Office of Oil and Gas

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WV Department of
Environmental Protection

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 7-6-21

07/16/2021

PLUGGING PROGNOSIS

API# 47-079-00886

West Virginia, Putnam County

38.2939479531761, -82.0193683182385

Nearest ER: CAMC Teays Valley Hospital, 1400 Hospital Drive, Hurricane, WV 25526

Casing Schedule

10" csg @ 10'

8 1/4" csg @ 140'

6 5/8" csg @ 1367'

5 3/16" csg @ 1669'

2" tbg @ 2092' with packer @ 1499'

TD 2092"

Completion: Shot**Fresh Water:** No shows**Salt Water:** 910'**Gas Shows:** Big Injun 1572'-1577', Berea 2067'-2092'**Oil Show:** No shows**Coal:** No shows**Elevation:** 731'*Joe Taylor 304-390-7469*

1. Notify Inspector ~~Terry Urban @ 304-549-5915~~, 48 hours prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. Release packer, TOOH LD tbg, and inspect.
5. TIH w/ tbg to 2067'. Kill well as needed with 6% bentonite gel. Pump at least 10 bbls gel. C1A cement plug from **2067'-1967' (Berea gas show)**. Tag TOC. Top off as needed.
6. TOOH w/ tbg to 1967'. Pump 6% bentonite gel from 1967'-1719'.
7. TOOH w/ tbg to 1719'. Pump 100' C1A cement plug from **1719-1619' (5" csg st)**.
8. TOOH w/ tbg to 1619'. Pump 6% bentonite gel from 1619'-1572'. TOOH LD tbg.
9. Free point 5 3/16" 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.
10. TIH w/ tbg to 1572". Pump 255' C1A cement plug from **1572'-1317' (Injun gas show and 6" csg st)**.
11. TOOH w/ tbg to 1317'. Pump 6% bentonite gel from 1317'-960'. TOOH LD Tbg.
12. Free point 6 5/8" 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.
13. TIH w/ tbg to 960'. Pump 100' C1A cement plug from **960'-860' (Saltwater)**.
14. TOOH w/ tbg to 860'. Pump 6% bentonite gel from 860'-731'.
15. TOOH w/ tbg to 731'. Pump 100' C1A cement plug from **731'-631' (Elevation)**.
16. TOOH w/ tbg to 865'. Pump 6% bentonite gel from 631'-190'. TOOH LD tbg.
17. Free point 8 1/4" 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.
18. TIH w/ tbg to 190'. Pump 190' C1A cement plug from **190'-0' (8" csg st and surface)**. TOOH LD tbg.
 - a. Bentonite pellets may be substituted 10' below/above offset water well depth.
19. Erect monument with API#, date plugged, and company name.
20. Reclaim location and road to WV-DEP specifications.

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

Line 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: Joe Taylor

Comments: Sediment control in place at All Time.

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WV Department of
Environmental Protection

Joe Taylor

Title: OCG Inspector

Date: 7-6-21

Field Reviewed? (X) Yes () No

UNITED FUEL GAS COMPANY
COMPANY

5703880886P

SERIAL WELL NO. 5172

LEASE NO. 44251

MAP SQUARE 40-55

RECORD OF WELL NO. <u>5172</u> on the		CASING AND TUBING				TEST BEFORE SHOT
<u>J. S. Sweetland</u>	farm of <u>64.0</u> Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	/10 of Water in _____ inch
in <u>Curry</u>	District	<u>10"</u>			<u>10</u>	<u>25</u> /10 of Merc. in <u>2</u> inch
<u>Putnam</u>	County	<u>8 1/2"</u>			<u>140</u>	Volume <u>880</u> M Cu. ft.
State of: <u>West Virginia</u>		<u>6-5/8"</u>			<u>2367</u>	TEST AFTER SHOT
Field: <u>Branchland</u>		<u>5-3/16"</u>			<u>2669</u>	/10 of Water in _____ inch
Rig Commenced	<u>194</u>					/10 of Merc. in _____ inch
Rig Completed	<u>194</u>	<u>2"</u>			<u>2107</u>	Volume <u>1,303</u> M Cu. ft.
Drilling Commenced	<u>7-9-17</u>					From foreign well card
Drilling Completed	<u>9-10-17</u>					Hours After Shot
Drilling to cost	per foot					Rock Pressure <u>585#</u>
Contractor is:						Date Shot _____
Address:		SHUT IN				Oil Flowed _____ bbls. 1st 24 hrs.
		Date _____				Oil Pumped _____ bbls. 1st 24 hrs.
Driller's Name _____		_____ in. Tubing or Casing				
		Size of Packer _____				Well abandoned and
		Kind of Packer _____				Plugged _____ 194
		1st Perf. Set _____ from _____				
Elevation: <u>731 L</u>		2nd Perf. Set _____ from _____				

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
is Sand	845	885		
ate	885	890		
ilt Sand	890	1269		Hole full water 910'.
ate & Shells	1269	1300		
xon Sand	1300	1340		
ttle Lime	1340	1363		
neil Cave	1363	1367		
g Lime	1367	1547		
ate	1547	1572		
g Injun	1572	1615		Gas 1572-1577
ate & Shells	1615	2067		
rea	2067	2092		Gas 2067-2092 25/10 Merc 2" 808 M
tal Depth		2092		

1) Date: June 30, 2021
 2) Operator's Well Number 805172
 3) API Well No.: 47 - 079 - 00886

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

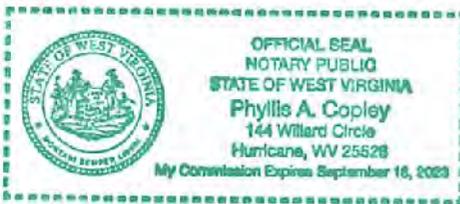
4) Surface Owner(s) to be served:		5) (a) Coal Operator	
(a) Name	<u>Barbara Plumley</u>	Name	<u>None</u>
Address	<u>3499 Harvey Creek Road Hamlin, WV 25523</u>	Address	<u></u>
(b) Name	<u></u>	(b) Coal Owner(s) with Declaration	
Address	<u></u>	Name	<u>See Attached List</u>
		Address	<u></u>
(c) Name	<u></u>	Name	<u></u>
Address	<u></u>	Address	<u></u>
6) Inspector	<u>Joe Taylor</u>	(c) Coal Lessee with Declaration	
Address	<u>1478 Claylick Road Ripley, WV 25271</u>	Name	<u>No Declaration</u>
Telephone	<u>304-380-7469</u>	Address	<u></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
 Title: Director Production
 Address: P.O. Box 6070
Charleston, WV 25362
 Telephone: 304-543-6988

Subscribed and sworn before me this 30th day of June, 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.

4707900886A

Well Number: 805172
API Number: 47-079-00886

COAL OWNERS

Barbara Plumley
3499 Harvey Creek Road
Hamlin, WV 25523

Karinette Carpenter
98 Middle Coach Road
Hurricane, WV 25526

Charles Conner II
1640 Seneca Drive
Melbourne, FL 32935

Josephine Conner
2004 Springdale Drive
Hurricane, WV 25526

Stephen H. Dula
2013 Appleton CT
Kingsport, TN 37664

Edna Raines
2401 Midland Trail
Hurricane, WV 25526

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WV Department of
Environmental Protection

07/16/2021

Well: 805172
 API: 47-079-00886P

7019 1640 0000 1003 3742

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage \$

Sent To 805172 P&A
 Stephen H. Dula
 2013 Appleton CT
 Kingsport, TN 37664

PS Form 3800, Rev. 11-15-17 See Reverse for Instructions

7019 1640 0000 1003 2516

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 Edna Raines
 2401 Midland Trail
 Hurricane, WV 25526

PS Form 3800, Rev. 11-15-17 See Reverse for Instructions

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Sent To 805172 P&A
 Josephine Conner
 2004 Springdale Drive
 Hurricane, WV 25526

PS Form 3800, Rev. 11-15-17 See Reverse for Instructions

7019 1640 0000 1003 3711

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Total Postage \$

Sent To 805172 P&A
 KarINETTE Carpenter
 98 Middle Coach Road
 Hurricane, WV 25526

PS Form 3800, Rev. 11-15-17 See Reverse for Instructions

7019 1640 0000 1003 3728

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Adult Signature Restricted Delivery \$

Postage \$

Total Postage \$

Sent To 805172 P&A
 Charles Conner II
 1640 Seneca Drive
 Melbourne, FL 32935

PS Form 3800, Rev. 11-15-17 See Reverse for Instructions

7019 1640 0000 1003 3702

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage \$

Sent To 805172 P&A
 Barbara Plumley
 3499 Harvey Creek Road
 Hamlin, WV 25523

PS Form 3800, Rev. 11-15-17 See Reverse for Instructions

07/16/2021

WW-9
(5/16)

API Number 47 - 079 - 00886
Operator's Well No. 805172'

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) Big Creek Quadrangle Hamlin

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 2D03902262)
- 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

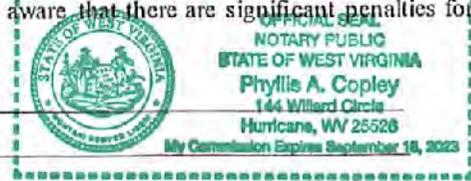
-Landfill or offsite name/permit number? N/A

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 _____
Company Official (Typed Name) Jeff Mast
Company Official Title Director Production



Subscribed and sworn before me this 30th day of June, 2021
Phyllis A. Copley Notary Public
My commission expires September 16, 2023

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
Red Fescue	40
Alsike	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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: _____

Comments: _____

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Office of Oil and Gas

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WV Department of
Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No



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

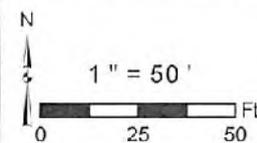
47-079-00886

Plugging Map

Legend

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

47-079-00886
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection



Well No.: 47-079-00886
UTM83-17, Meters
North: 410834.95
East: 4239034.73
Elev.: 220.67, M
Elev.: 723.8 Ft

Primary Pit

Secondary Pit

05



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

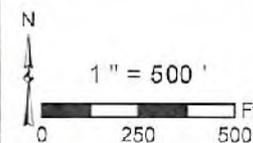
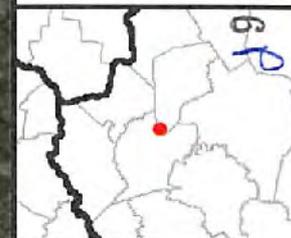
47-079-00886

Plugging Map

Legend

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

47-079-00886
021
Division of Gas



Well No.: 47-079-00886
UTM83-17, Meters
North: 410834.95
East: 4239034.73
Elev.: 220.67, M
Elev.: 723.8 Ft

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community



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

47-079-00886

Plugging Map

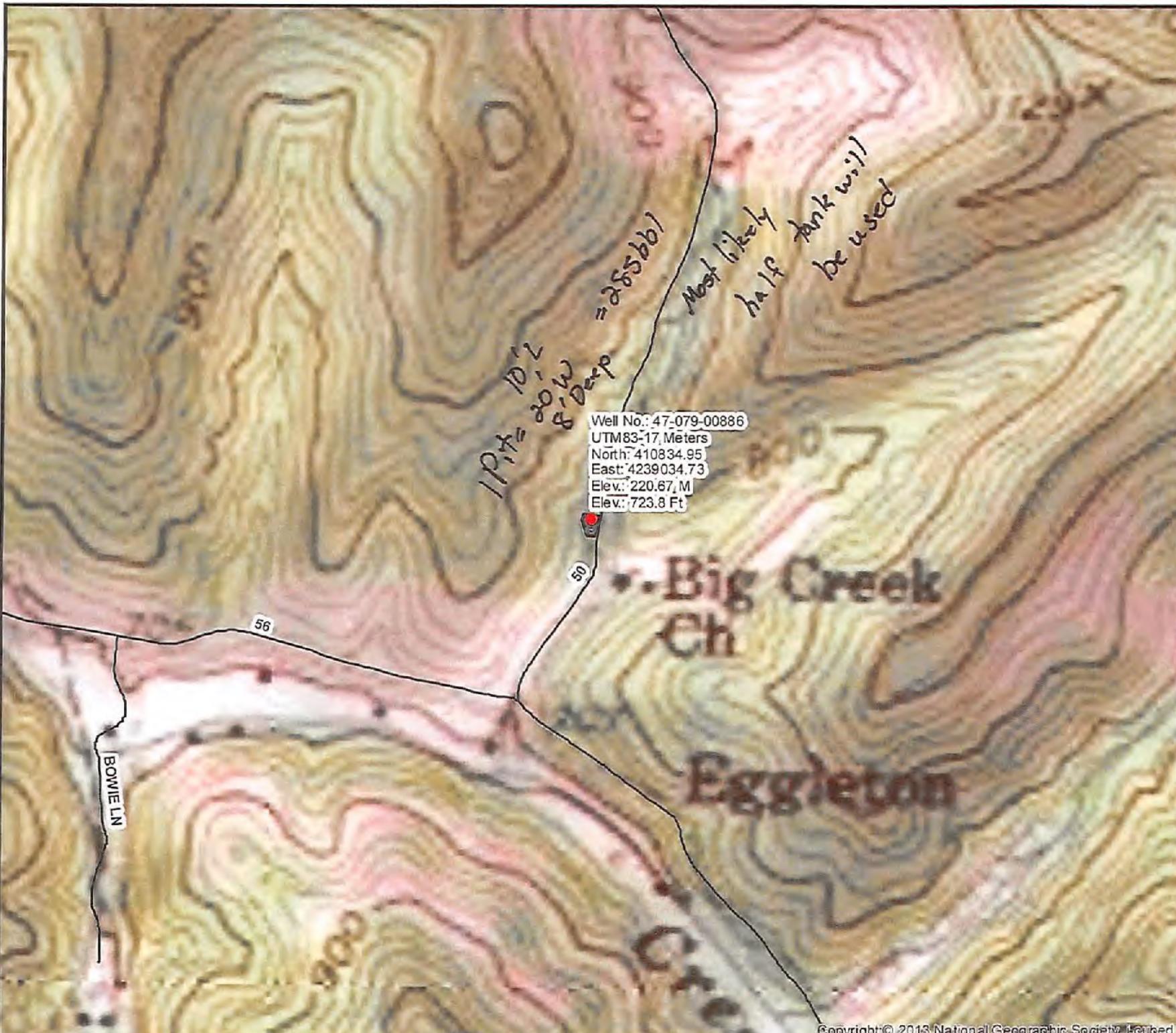
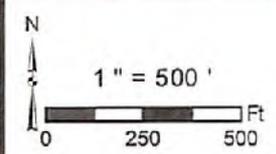
Legend

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

Environmental Protection
Department of

RECEIVED
Office of Oil and Gas
JUL 02 2021

4707900886A



Well No.: 47-079-00886
UTM83-17, Meters
North: 410834.95
East: 4239034.73
Elev.: 220.67, M
Elev.: 723.8 Ft

Pit = 10' x 8' - Deep = 255661

Most likely half tank will be used

Big Creek Ch

Eggleton

BOWIE LN

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-079-00886 WELL NO.: 5172

FARM NAME: Sweetland, J.L.

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Putnam DISTRICT: Curry

QUADRANGLE: Hamlin

SURFACE OWNER: Barbara Plumley

ROYALTY OWNER: Barbara Plumley Etal

UTM GPS NORTHING: 4,239,034.73

UTM GPS EASTING: 410,834.95 GPS ELEVATION: 723

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: ^{RECEIVED} _{Office of Oil and Gas} height above mean sea level (MSL) – meters.

2. Accuracy to Datum – 3.05 meters

3. Data Collection Method:

Survey grade GPS : Post Processed Differential

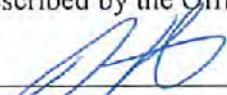
Real-Time Differential

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.


Signature

Director Production

Title

6/30/2021

Date

4707900886P

Well Number: 805172

API: 47-079-00886

PLUGGING PERMIT CHECKLIST

RECEIVED
Office of Oil and Gas
JUL 02 2021
WV Department of
Environmental Protection
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Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A

- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

07/16/2021