



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 1
47-017-00478-00-00

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: 1
Farm Name: ROBINSON, H. G.
U.S. WELL NUMBER: 47-017-00478-00-00
Vertical Plugging
Date Issued: 9/21/2021

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4701700478P

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.

09/24/2021

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WW-4B
Rev. 2/01

1) Date August 19, 2021
2) Operator's Well No. 1
3) API Well No. 47-017 - 00478

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 876 ft Watershed Little Toms Fork
District New Milton County Doddridge Quadrangle New Milton

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 Sam Ward Name Diversified Production, LLC (In-House Rig)
Address P.O. Box 2327 Address 1951 Pleasantview Ridge Road
Buckhannon, WV 26201 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

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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 [Signature] Date 8/23/2021

09/24/2021

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PLUGGING PROGNOSIS

API# 47-017-00478

West Virginia, Doddridge County

39.19236494855923, -80.7200651047074

Nearest ER: Stonewall Jackson Memorial Hospital, 230 Hospital Plaza, Weston, WV 26452

Casing Schedule

16" csg @ 15'

5 3/16" csg @ 1901' est TOC @ 1400'

2 3/8" tbg and rods @ approx. 2000'

TD @ 2017'

Completion:

- Acid Frac

Fresh Water: 400'

Gas Shows: 1790', Lime 1880', Big Injun 1947'-1979'

Oil Show: 1790', Lime 1880', Big Injun 1947'-1979'

Coal: None Reported

Elevation: 896'

1. Notify Inspector Sam Ward @ 304-389-7583, 48 hours prior to commencing operations.
2. Check and record pressures on tbg/csg.
3. TOOH LD rods and tbg. Inspect tbg.
4. Check TD w/ wireline.
5. TIH w/ tbg to 1979'. Kill well as needed with 6% bentonite gel. Pump 239' C1A cement plug from 1979'-1740' (Injun, Lime Oil & Gas shows). Tag cement and top off as needed
6. TOOH w/ tbg to 1740'. Pump 6% bentonite gel from 1740'-896'. TOOH LD tbg.
7. 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.
8. TIH w/ tbg to 896'. Pump 100' C1A cement plug from 896'-796' (Elevation).
9. TOOH w/ tbg to 796'. Pump 6% bentonite gel from 796'-450'.
10. TOOH w/ tbg to 450'. Pump 100' C1A cement plug from 450'-350' (Fresh water).
11. TOOH w/ tbg to 350'. Pump 6% bentonite gel from 350'-100'.
12. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-surface (Surface).
13. Erect monument with API#, date plugged, and company name.
14. Reclaim location and road to WV-DEP specifications.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Vadis

Permit No. DOD - 478

WELL RECORD

Gas
Oil or Gas Well & Oil
(MINO)

Company U. N. K. GAS COMPANY
Address C. POWELL, AGT., WEST UNION, W. VA.
Farm H. G. ROBINSON Acres 172
Location (waters) _____
Well No. 1 Elev. 896'
District New Milton County Doddridge
The surface of tract is owned in fee by _____
H. G. Robinson Address New Milton, W. Va.
Mineral rights are owned by _____
H. G. Robinson Address New Milton, W. Va.
Drilling commenced March 24, 1961
Drilling completed April 29, 1961
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	15'	15'	Kind of Packer
13			
10	140'		Size of
8 3/4	500'		
6 3/4	1144'		Depth set
5 3/16	1901'	1901'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

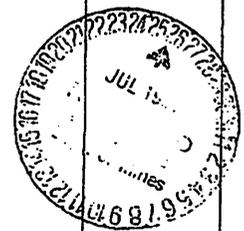
Open Flow 40/10ths Water in 1" Inch
/10ths Merc. in _____ Inch
Volume 180,000 Cu. Ft.
Rock Pressure 620 lbs. 12 hrs.
Oil 1 bbls., 1st 24 hrs.
WELL ACIDIZED _____

CASING CEMENTED Yes SIZE 5-1/2 No. Ft. 500' ^{4/22/61} Date
Garaton Ser., Inc.,

COAL WAS ENCOUNTERED AT NO FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED Yes, 1300 bbl. water 500 gal acid, Dowell Co.
RESULT AFTER TREATMENT 1,500,000 m. cu. ft. - 15 bbl. - 24 hrs
ROCK PRESSURE AFTER TREATMENT 780'
Fresh Water 400 Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	40			
Slate			40	80			
Slate-Shells			80	140			
Shale			140	165			
Sand			165	187			
Slate-Shells			187	235			
Red Rock			235	330			
Slate-Shells			330	390			
Sand			390	404	Water	400'	
Shale			404	406			
Lime			406	418			
Shale			418	540			
Sand			540	604			
Slate-Shells			604	616			
Red Rock			616	661			
Sand			661	664			
Red Rock			664	715			
Slate			715	720			
Red Rock			720	746			
Slate			746	772			
Red Rock			772	800			
Slate-Shells			800	860			
Red Rock			860	867			
Lime			867	877			
Red Rock			877	940			
Slate-Shells			940	982			
Sand			982	1000			
Lime			1000	1010			
Slate	Black		1010	1073			



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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1073	1080			
Lime			1080	1095			
Slate			1095	1149			
Lime			1149	1158			
Slate-Shells	Black		1158	1218			
Lime			1218	1221			
Slate			1221	1310			
Sand			1310	1400			
Slate			1400	1470			
Sand			1470	1475			
Slate			1475	1549			
Lime			1549	1577			
Sand			1577	1605			
Slate-Shells			1605	1674			
Lime			1674	1700			
Slate-Shells			1700	1728			
Slate			1728	1745			
Sand			1745	1750			
Slate			1750	1760			
Shaley Sand			1760	1766			
Sand			1766	1812	Gas	1790'	
Lime			1812	1817			
Shale		Hard	1817	1830			
Sand			1830	1870			
Lime (Big)			1870	1927	Gas, & Oil	1880'	
Sand (Injun)			1927	1934	Gas & Oil	1930'	
Sand "			1934	2014	Gas & Oil	1947'-1951'	
Slate			2014	2017	Gas	1971'-1979'	
	Total	depth	2017				

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8/23/2021

Date July 24, 1961, 19 61

APPROVED L. N. B. G/S COMPANY Owner

By CLARENCE POWELL, AGENT (Title)

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09/24/2021
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Environmental Protection

4701700478P

WW-4A
Revised 6-07

1) Date: August 19, 2021

2) Operator's Well Number
1

3) API Well No.: 47 - 017 - 00478

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

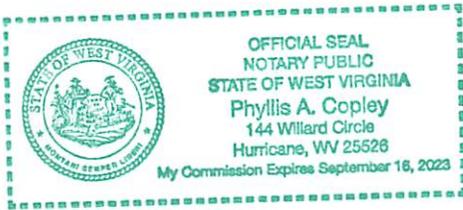
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Bryan R. Robinson</u>	Name <u>None</u>
Address <u>23221 Jenifer Court</u>	Address _____
<u>Leonardtown, MD 20650</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Bryan R. Robinson</u>
_____	Address <u>23221 Jenifer Court</u>
_____	<u>Leonardtown, MD 20650</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>No Declaration</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</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 Production
 Address P.O. Box 6070
Charleston, WV 25362
 Telephone 304-543-6988

Subscribed and sworn before me this 20th day of August, 2021
[Signature] 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 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.

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WV Department of Environmental Protection

09/24/2021

Well I
47-017-00478
4701700478P

7019 1640 0000 1003 1003 4855

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

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

Leonardtown, MD 20650

OFFICIAL USE

Certified Mail Fee	\$ 3.60
Extra Services & Fees (check box, add fee 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	\$ 7.85

0523
01
Postmark Here

08/23/2021

Well #1 - DOD478
Sent To Bryan R. Robinson (Surface and coal)
Street 23221 Jenifer Court
City, St Leonardtown, MD 20650

PS Form 3800, June 2010 Instructions

47-017-00478

WW-9
(5/16)

API Number 47 - 017 - 00478
Operator's Well No. 1

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) Little Toms Fork Quadrangle New Milton

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 4709300103)
- 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: 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.

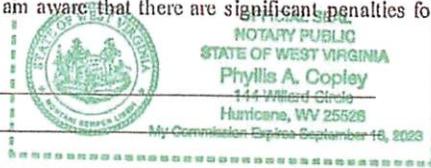
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

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

Operator's Well No. 1

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:

SID Warratt

Comments:

Title: COG Inspector

Date: 8/23/2021

Field Reviewed? () Yes (X) No

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09/24/2021

4701700478P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-017-00478 WELL NO.: 1

FARM NAME: Robinson, H.G.

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Doddridge DISTRICT: New Milton

QUADRANGLE: New Milton

SURFACE OWNER: Bryan R. Robinson

ROYALTY OWNER: Diversified Production LLC

UTM GPS NORTHING: 4,338,189.1

UTM GPS EASTING: 524,183.8 GPS ELEVATION: 876'

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 X: Post Processed Differential X
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]
Signature

Director Production
Title

08/12/2021
Date

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WW Department of
Environmental Protection

Inspector
Signed sheets
included

4701700478P

Well Number: 1
API: 47-017-00478

PLUGGING PERMIT CHECKLIST

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 *Receipt Following WW-4A*
- 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

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09/24/2021



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

Plugging Vertical Well Work Permit (API: 47-017-00478)

1 message

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

Wed, Sep 22, 2021 at 8:07 AM

To: "Mast, Jeff" <jmast@dgoc.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 "1", **API (47-017-00478)**. 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

 **47-017-00478 - Copy.pdf**
2667K

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