

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, May 25, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE JACKSON CENTER, PA 16133

Re: Permit approval for 20511 47-039-03621-00-00

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: 20511 Farm Name: WARD, DAVID - ESTATE U.S. WELL NUMBER: 47-039-03621-00-00 Vertical Plugging Date Issued: 5/25/2021

Promoting a healthy environment.

4703903621P

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.

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- 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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4	В	1) Date March 23 , 2021		
Rev.	2/01	2) Operator's Well No. 820511 4703903621		
		3) API Well No. 47-039 -03624		
		ST VIRGINIA		
	DEPARTMENT OF ENVIR OFFICE OF (
	APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON		
4)	Well Type: Oil / Gas X / Liquid	injection/ Waste disposal/		
	(If "Gas, Production X or Und	lerground storage) Deep/ ShallowX		
5)	Location: Elevation 1356.6 ft	Watershed Shadrick Fork		
	District Cabin Creek	County Kanawha Quadrangle Montgomery		
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 Terry Urban	Name R & J Well Services, Inc.		
	Address P.O. Box 1207	Address P.O. Box 40		
	Clendenin, WV 25045	Hueysville, KY 41640-0040		
	Clendenin, WV 25045	Hueysville, KY 41640-0040		

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

See Attached

Operator to Covie with Cement All Perfs : 0.1 CAS bearing formations including SAH, Elevenous, Cool : Frish water Zones Office of Oil and Gas

MAY 1 2 2021

WV Department of **Environmental Protection**

05/28/2021

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

Work order approved by inspector KuywWhh

Date 5-11-21

PLUGGING PROGNOSIS

West Virginia, Kanawha County API # 47-039-03621 38.2438661357884, -81.3309148114891 Nearest Emergency Room: Montgomery General, 401 Sixth Ave, Montgomery, WV 25136

Casing Schedule

10 ³⁄4" csg @ 66' 8 5/8" csg @ 815' cemented to surface w/150 sks 4 1/2" csg @ 2475' cemented w/ 50 sks est. TOC @ 1856' TD @ 2490'

Completion: Frac

Injun 2353'-2395' Weir 2428'-2462'

Fresh Water: none recorded Saltwater: 1270' Coal: 185', 330', 395' Oil Show: none reported Gas Show: 880', 2353'-2395' (Injun), 2428'-2462' (Weir) Elevation: 1333'

- 1. Notify inspectors, Alexandre and S22-8348 and Terry Urban @ 304-549-5915, 48 hrs. prior to commencing operations.
- 2. Tag TD w/ wireline.
- 3. Pull stretch on 4 ¹/₂" csg and estimate free point.
- 4. TIH w/ tbg to 2462'. Kill well as needed with 6% bentonite gel.
- Pump 209' Class A cement plug from 2462'-2253' (Injun and Weir shows)

 Tag TOC and top off as needed.
- 6. TOOH w/ tbg to 2253'. Load hole with 6% bentonite gel from 2253'-1333' TOOH LD tbg
- 7. Perforate 4 1/2" csg @ 1333', 1283', 1233', 880', 830', and 770'
- TIH w/ tbg to 1333'. Pump 113' Class A cement plug from 1333'-1220' (elevation and salt water)

 Tag TOC to ensure adequate fill up on 4 ½" csg annulus.
- 9. TOOH w/ tbg to 1220'. Pump 6% Bentonite gel from 1220'-880'.
- TOOH w/ tbg to 880'. Pack off tbg on 2x4 wellhead. Pump 115' Class A cement plug from 880'-765' (gas show and 8" csg st) Monitor circulation on 8 5/8". Tag TOC. Top off if needed. TOOH LD tbg.
- 11. Pressure test 4 ½" csg. If test passes perforate 4 ½" csg at 445' w/ 4 shots and establish circulation on 8 5/8" csg. Once circulation is established pump 445' Class A cement plug by bull heading 4 ½" csg and circulating out good returns on 8 5/8" csg.
 - a. If pressure test fails perforate 4 ¹/₂" csg at 445', 395', 345', 295', 245', 195', 145', 95', and 45'. Then spot plug through tbg. (coal and surface)

12. Erect monument with API#, date plugged, & company name.

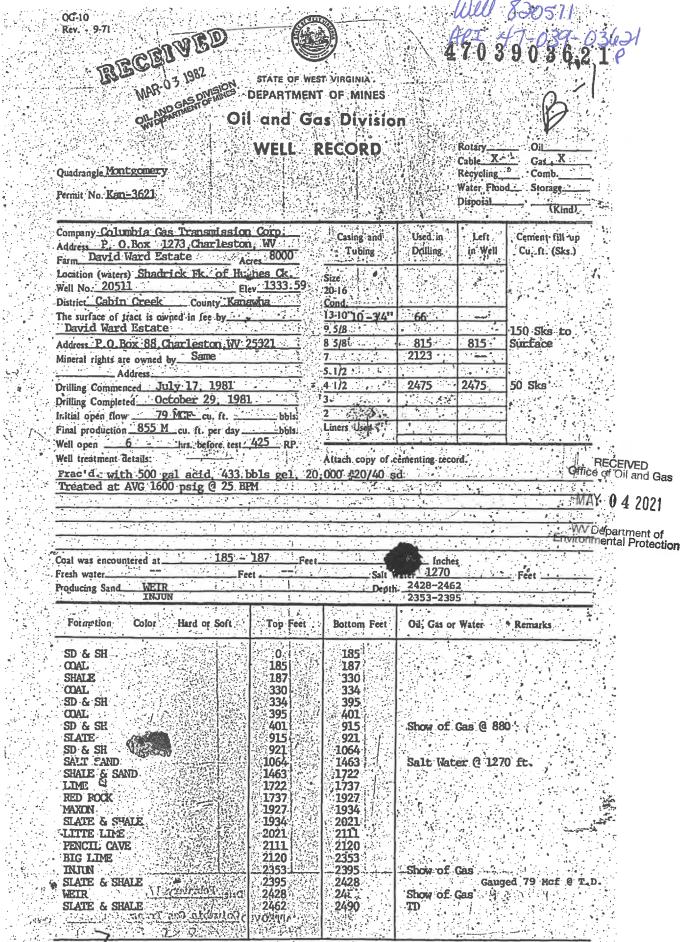
13. Reclaim location and road to WV-DEP specifications.

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• Indicates Electric Log tops in the temarks section.

				4	703	/	3621
WW-4A		1) Date	e: March	23, 2021			le
Revised 6-07		2) Ope	rator's Well 1 20511	lumber			
		3) API	Well No.: 47	. 039		03621	
	EPARTMENT OF ENVIRONMENT	OF WEST VIRGIN AL PROTECTI I TO PLUG AN Ocoal Operator Name	ON, OFFIC	E OF OIL A <u>NA WELL</u>	ND GAS	ł	
Address	P.O. Box 88	Address					
	Charleslon, WV 25321						
(b) Name		(b) Coal Own	ner(s) with D	eclaration			
Address		Name	Robin Land - Atle	antion: James Ea	gan	_	
		Address	500 Hale Street				
			East Charleston,	WV 25301			
(c) Name		Name	1				
Address		Address					

(c) Coal Lessee with Declaration

No Declaration

well its and the plugging work order; and The plat (surveyor's map) showing the well location on Form WW-6. (2)

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.

The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the

Name

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

Address

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.

	OFFICIAL SEAL NOTARY PUELIO STATE OF WEST VIRGINA Phyllis A. Copley 144 Willard Circle Hurricane, WV 25528	Well Operator By: Its: Address	Diversified Production, LLC Jeff Mast Director Production P.O. Box 6070	
My C	Harricano, 44 2020 Commission Explore September 16, 2023	Telephone	Charleston, WV 25362 304-543-6988	RECEIVED Office of Oil and Gas
Subscribed	and sworn before me th	is 29th de	ay of March, 2021	MAY 1 2 2021
	ission Expires September	inclusion copi	Notary Public	WV Department of Environmental Protection

Oil and Gas Privacy Notice

6) Inspector

Address

Telephone

(1)

Terry Urban P.O. Box 1207

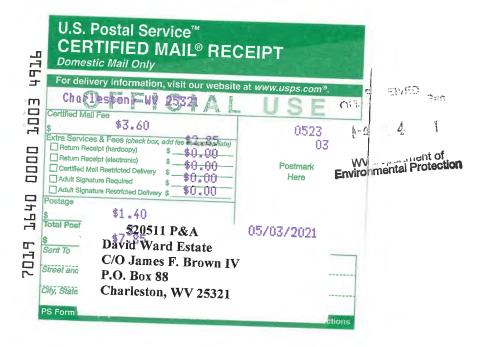
304-549-5915

Clendenin, WV 25045

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 depprivacyoffier@wv.gov.

4703903621P





4703903621

WW-9 (5/16) API Number 47 - 03903621	
Operator's Well No	
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) Shadrick Fork (0505000603) Quadrangle Montgomery	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes V No	
Will a pit be used? Yes V No	
If so, please describe anticipated pit waste: Froduced fluid and cement returns Will a synthetic liner be used in the pit? Yes V No If so, what ml.?	
Will a synthetic liner be used in the pit? Yes <u>V</u> No <u>I</u> 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 47-119-00724·)	
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 the there are significant penalties for	
submitting false information, including the possibility of fine or imprisonment.	
Company Official Signature Huntans, W25523	
Company Official (Typed Name) Job Wast	
Company Official Title RECEIVED RECEIVED Office of Oil and Offi	Gas
Subscribed and swom before me this 29th day of March 2021, 2021 MAY 1 2 20	
Notary Public WV Department	
My commission expires September 16, 2023	- +x 65 %f1 f

47039036211

Form WW-9

Operator's Well No. ___ 820511

Lime 3	Tons/acre or to correct		
Fertilizer type Fertilizer amount	10 20 20 01 0441440	lbs/acre	
Mulch 2		Tons/acre Seed Mixtures	
Te	mporary	Perma	nent
Seed Type	Ibs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
	5	Alsike Clover	5
Alsike	Ū.		

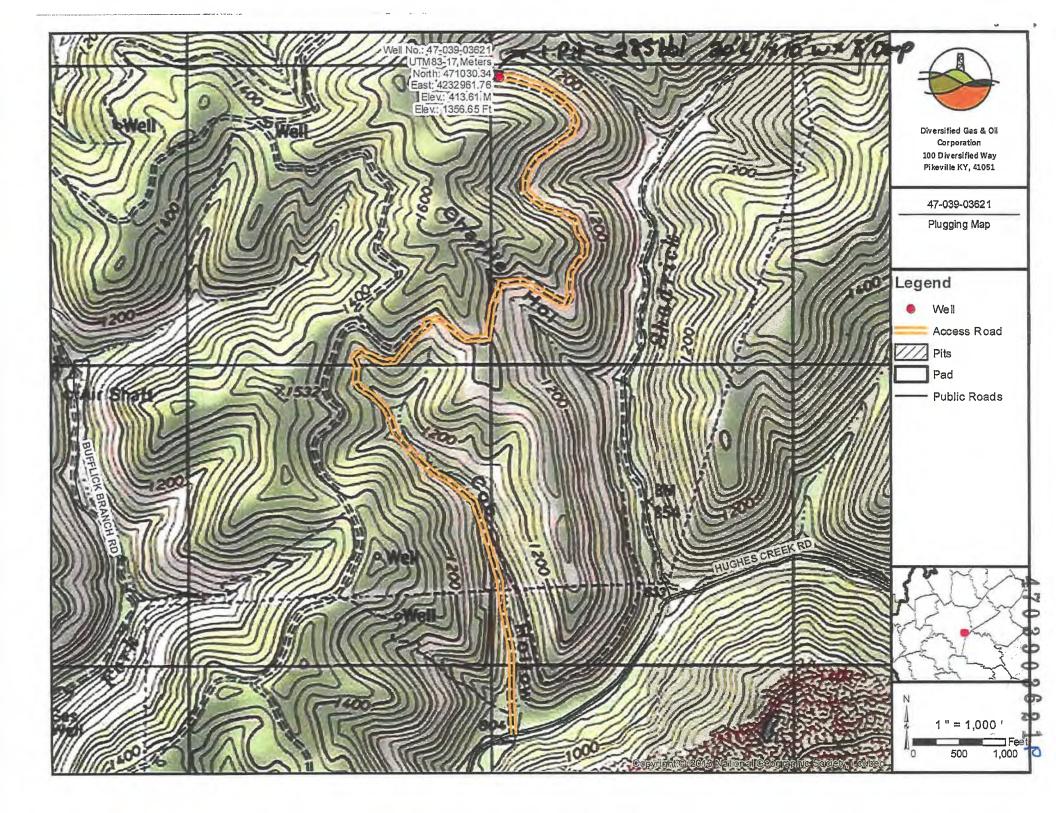
Attach:

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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WW-7	
8-30-06	
The second s	
West Virginia Department of Environmental Protection	
Office of Oil and Gas	
WELL LOCATION FORM: GPS	
API: 47-039-03621 WELL NO.: 820511	-
FARM NAME: David Ward Estate	
RESPONSIBLE PARTY NAME: Diversified Production LLC COUNTY: Kanawha DISTRICT: Cabin Creek	
COUNTY: Kanawha DISTRICT: Cabin Creek	
QUADRANGLE: Montgomery	
SURFACE OWNER: David Ward Estate	
ROYALTY OWNER: David Ward Heirs Et Al	_
UTM GPS NORTHING: 4,232,961.76	
UTM GPS EASTING: 471,030.34 GPS ELEVATION: 1356.6	_
 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	RI
Mapping Grade GPS X: Post Processed Differential X	Office

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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 Environmental Protection belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

1 Mb	Director Parduction	03/19/2021	
Signature	Title	Date	

Real-Time Differential