

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: Per

Permit approval for 1403 47-047-01178-00-00

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.

Operator's Well Number: 1403

Farm Name: CAPLES RESOURCES, INC.

U.S. WELL NUMBER: 47-047-01178-00-00

Vertical Plugging
Date Issued: 9/21/2021

PERMIT CONDITIONS

47047011789

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

1) Date August 19	,	2021
2) Operator's		
Well No. 1403		
3) API Well No.	47 - 047	- 01178

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	APPLICATION FOR A PERM	IIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas $\frac{X}{X}$ / Liquid (If "Gas, Production $\frac{X}{X}$ or Und	injection/ Waste disposal/ derground storage) Deep/ Shallow X
5)	Location: Elevation 2138 ft District Browns Creek	Watershed Puncheoncamp Branch County McDowell Quadrangle Welch
6)	Well Operator Address Diversified Production LLC P.O. Box 6070 Charleston, WV 25362	7) Designated Agent Jeff Mast Address P.O. Box 6070 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
	See Atta	ached
		RECEIVED
		Office of Oil and Gas
		AUG 26 2021
		WV Department of Environmental Protectio
work	fication must be given to the district of can commence.	and gas inspector 24 hours before permitted Date 8/24/21

PLUGGING PROGNOSIS

1403

West Virginia, McDowell County API# 47-047-01178

Lat/Long: 37.4876317441579, -81.5509540826985

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 @ 39'

7" csg @ 1166' cemented to surface

4 ½" csg @ 3656' Perfs 1834'-1848', 2493'-2506', 3225'-3235', 3543'-3600' Est TOC @ 615'

2 3/8" tbg est. @ 3600' not in completion report

TD 3712'

Completion: Frac

Ravencliff 1834'-1848'

- Maxon 2493'-2506'
- Big Lime 3225'-3235', 3543'-3600'

Fresh Water: N/A

Gas Shows: Ravencliff 1834'-1848', Maxon 2493'-2506', Big Lime 3225'-3235', 3543'-3600'

Coal: 985' Elevation: 2142'

- 1. Notify Inspector, Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.
- 2. Check and record pressures on tbg/csg.
- 3. Check TD w/ wireline
- 4. TOOH LD and inspect tbg.
- 5. TIH w/ tbg to 3600'. Load well as needed w/ 6% bentonite gel. Pump 475' C1A cement plug from 3600'-3125' (Lime gas show).
- 6. TOOH w/tbg to 3125'. Pump 6% bentonite gel 3125'-2506'.
- 7. TOOH w/ tbg to 2506'. Pump 113' C1A cement plug from 2506'-2393' (Maxon gas show).
- 8. TOOH w/tbg to 2393'. Pump 6% bentonite gel 2393'-2142'.
- 9. TOOH w/tbg to 2142'. Pump 100' C1A cement plug from 2142'-2042' (Elevation).
- 10. TOOH w/ tbg to 2042'. Pump 6% bentonite gel 2042'-1848'.
- 11. TOOH w/tbg to 1848'. Pump 114' C1A cement plug from 1848'-1734' (Ravencliff gas show).
- 12. TOOH w/ tbg to 1734'. Pump 6% bentonite gel from 1734'-1035'.
- 13. TOOH w/ tbg to 1035'. Pump 100' C1A cement plug from 1035'-935' (Coal).
- 14. TOOH w/tbg to 935'. Pump 6% bentonite gel from 935'-615'. TOOH LD tbg.

RECEIVED 15. 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 AUG 2 6 2021

16. TIH w/tbg 100'. Pump 100' C1A cement plug from 100'-0' (Surface). TOOH LD tbg.

- 17. Erect monument with API#, date plugged, and company name.
- 18. Reclaim location and road to WV-DEP specifications.

WV Department of Environmental Protection

* REVISED *

12-Nov-92 API #47-047-01178



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

Well Operator's Report of Well Work

Farm Name: CAPLES RESOURCES, INC.

Operator Well No.: 1403

LOCATION:

Elevation: 2141.60

Quadrangle: WELCH

District: BROWNS CREEK County: MCDOWELL Latitude: 4500 Feet South of 37 Deg. 37 Min. 0 Sec. Longitude 2680 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: MERIDIAN EXPLORATION CORP.

707 GRANT ST.-2800 GULF TOWER PITTSBURGH, PA 15219-0000

Agent: JOHN O. KIZER (C T CORP)

Inspector: OFIE HELMICK
Permit Issued: 11/12/92
Well work Commenced: 11/28/92
Well work Completed: 12/06/92

Verbal Plugging Permission granted on:

Rotary X Cable Rig
Total Depth (feet) DTD: 3712' LTD:3724'
Fresh water depths (ft) N/A

Salt water depths (ft) 420'

Is coal being mined in area(Y/N)? N Coal Depths (ft): 985'-990'

٠ &	ng ¦ Used i Drilling	in	Fill Up
Size			
11-3/4"	39′	39'	
7"	 1166'	1166'	608
4-1/2"	 3656'	3656'	312′
	! 1 ! !	! ! !	

OPEN FLOW DATA

Producing formation Big Lime Pay zone depth (ft) 3225'-3600'

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

Second producing formation Middle Maxton Pay zone depth (ft) 2493'-2506'

Gas: Initial open flow 750 MCF/d Oil: Initial open flow Bbl/d

Final open flow 750 MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests 48 Hours

Static rock Pressure n/a psig (surface pressure) after Hours

* ADDITIONAL FORMATION ON ATTACHED SHEET.

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.

Reviewed IM6 --

For: MERIDIAN EXPLORATION CORP.

By: <u>Karl C. Kimmich</u>
Date: <u>4//3/93</u>

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WV Department of Environmental Protection CAPLES RESOURCES, INC.

API #47-047-01178 Well No. 1403

OPEN FLOW DATA: (Continued)

Producing formation Ravencliff Pay zone depth (ft) 1834'-1848'

Gas: Initial open flow 311 MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow 311 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 48 Hours

Static rock Pressure N/A psig (surface pressure) after N/A Hours

STAGES: (Continued)

BKDN	2600 PSI
AVE TRT	20 BPM @ 3100 PSI
ISIP (FRAC)	1150
SAND (20/40)	42,000
H ₂ O (BBL)	239
N ₂ (SCF)	318,000

FOURTH	STAGE	(Ravencliff)
--------	-------	--------------

BKDN	2860 PSI
AVE TRT	20 BPM @ 3050 PSI
ISIP (FRAC)	1700
SAND (20/40)	61,500
H ₂ O (BBL)	260
N ₂ (SCF)	397,000

All

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WV Danariment of Environment of

Well No. 1403

PERFORATED INTERVALS

3594'-3600' 3556'-3562' 3543'-3550' 3225'-3235' 2493'-2506' 1834'-1848'

FIRST STAGE (Big Lime) Acid Treatment (3543'-3600') 1020 PSI BKDN

11.5 BPM @ 900 PSI AVE TRT ISIP (FRAC) 440

N/A SAND (20/40) H₂O (BBL) 172 N₂ (SCF) 33,000

ACID:

5,000 gal. 15% HCL

SECOND STAGE (Big Lime)

_____ Acid Treatment (3225'-3235')

1460 PSI 10.5 BPM @ 1330 PSI AVE TRT

750 ISIP (FRAC) N/A SAND (20/40) 192 H2O (BBL) N₂ (SCF) 38,000

ACID:

5,000 gal. 15% HCL

WATER AND GAS CHECKS BOTTOMS FORMATIONS TOPS

0'-15' Alluvium Sand & Shale Interbedded 15'-405' 405'-440' Shale 440'-525' Siltstone Sand Some Shale 525'-690' 690'-770' Shale 770'-860' Sand 860'-970' Shale 970'-985' Sand Coal 985'-990' Shale &Sand Interbedded 990'-1060' 1060'-1105' Shale 1105'-1170' Sand 1170'-1315' Shale 1315'-1355' Sand 1355'-1820' Shale Ravencliff Sand 1820'-1880' 1880'-1935' Shale Avis Lime 1935'-1984' 1984'-2040' Shale Sand 2040'-2080' 2080'-2460' Shale Some Sand Maxton Sand 2460'-2520' 2520'-2780' Shale Some Sand 2780'-2810' Lime 2810'-2820' Shale Lower Maxton 2820'-2870' 2870'-2060' Shale Little Lime 2060'-3020' Shale 3020'-3100' 3100'-3650' Big Lime

Shale Some Sand

3650'-3724' 3724'

H₂O @ 420' - 2 GPM

Gas Checks: @ 1650': NS @ 2000': NS @ 2900': Odor @ 3250': Odor TD: 178 MCF

> RECEIVED Office of Oil and Gas

AUG 26 2021

WV Department of Environmental Protection WW-4A Revised 6-07

1)	Date:	August 19, 2021				
2)	Operator's	Well Number				
3)	API Well N	lo.: 47 -	047	-	01178	

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

4)	Surface Owne	er(s) to be served: 5)	(a) Coal Operator		
•	(a) Name	McDowell County Economic Development Author	rity Name	None	
	Address	92 McDowell Street, Suite 100	Address		
		Welch, WV 24801			
	(b) Name		(b) Coal Ow	ner(s) with Declaration	
	Address		Name	Berwind Land Company	
			Address	300 Summers Street, Suite 1050	
				Charleston, WV 25301	
	(c) Name		Name		
	Address		Address		
6)	Inspector	Gary Kennedy	— (c) Coal Les	see with Declaration	
•	Address	66 Old Church Lane	Name	No Declaration	
		Pipestem, WV 25979	Address		
	Telephone	304-382-8402			
_					

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.

Phyllis A. Copley 144 Willard Circle Hurricane, WV 25526	NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley 144 Willard Circle Hurricane, WY 25528	By: Its:	Diversified Production, LLC Jeff Mast Director Production P.O. Box 6070	_ _ _
My C	Commission Expires September 16, 2023		Charleston, WV 25362	
		Telephone	304-543-6988	_
			RE	CEIVED

Subscribed and sworn before me this 20 th day of August 2021

My Commission Expires September 16, 2023

Office of Oil and Gas

AUG 2 6 2021

Oil and Gas Privacy Notice

WV Department of Environmental Protection

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 depprivacyoffice@wv.gov.

4704701178PWell 1403 47-047-01178P

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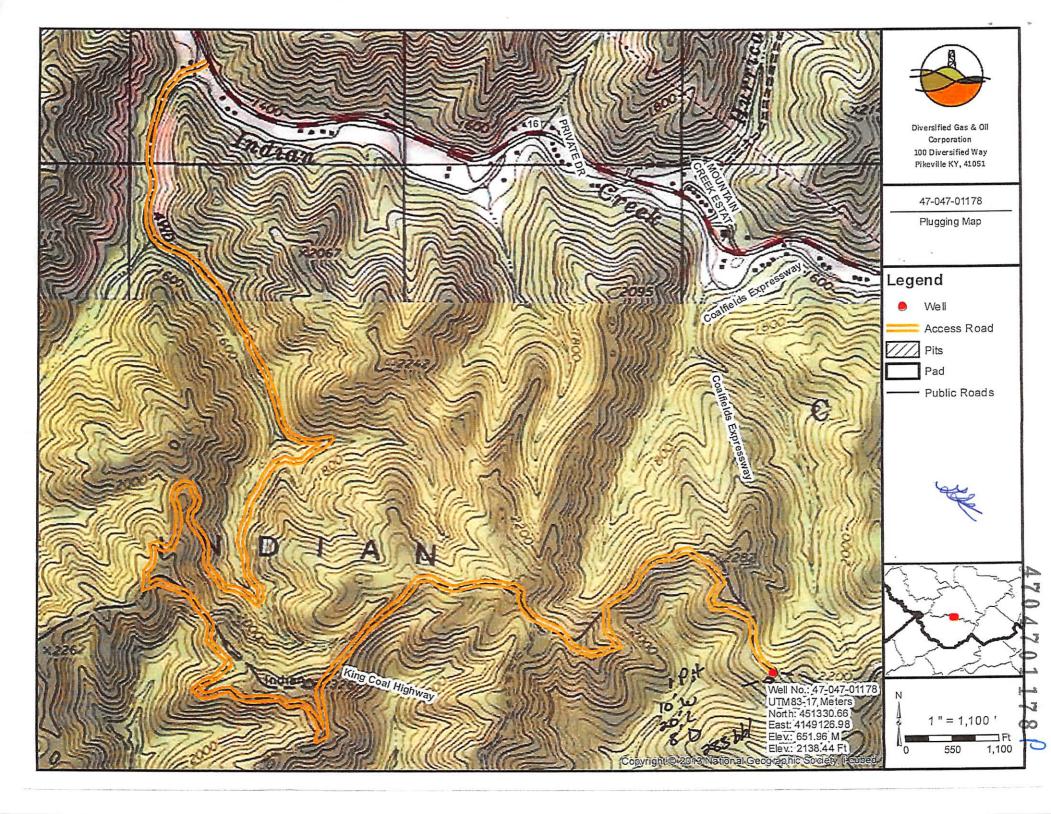
WW-9 (5/16) API Number 47 - 047 ____ - 01178 Operator's Well No. 1403

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) Puncheoncamp Branch Quadrangle Welch	7
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_	
Will closed loop systembe 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 waster West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall where it was properly disposed.	aiso disclose
	nderstand that the her applicable law submitted on this sible for o blaining cant penalties for ATE OF WEST VIRGINIA Phyllis A. Copley
Company Official Signature	144 Willard Circle Hurricane, WV 25526 selon Expires September 16, 2023
Company Official (Typed Name) Jeff Mast	
Company Official Title Director Production	RECEIVED
	Office of Oil and Gas
Subscribed and swom before me this day of day of day of 2001	AUG 26 2021
My commission expires September 16, 2023	WV Department of Environmental Protection

Form WW-9

Proposed Revegetation Treatn	nent: Acres Disturbed 1	+/- Preveg etation	рН	
Lime 3	Tons/acre or to correct to pH 6.5			
Fertilizer type	20 or equivalent			
Mulch_2		Tons/acre		
		Seed Mixtures		
Temporary		Permanent		
Seed Type	lbs/acre	Seed Type	lbs/acre	
Red Fescue	40	Red Fescue	15	
Alsike	5	Alside Clover	5	
Annual Rye Attach: Maps(s) of road, location, pit provided). If water from the p(L, W), and area in acres, of t	it will be land applied, prov	application (unless engineered plans inc	cluding this info have been (L, W, D) of the pit, and dimensic	
Attach: Maps(s) of road, location, pit provided). If water from the p	and proposed area for land bit will be land applied, prov he land application area.	application (unless engineered plans inc vide water volume, include dimensions (cluding this info have been (L, W, D) of the pit, and dimension	
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WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOC	6.00 10.00 1		
API: 47-047-01178	WELL NO.: 1	403	
FARM NAME: Caples Res			
	Diversified Producti	on LLC	
COUNTY: McDowell	bistrict: Bro	wns Creek	
COUNTY: McDowell QUADRANGLE: Welch			
SURFACE OWNER: The Mercyalty owner: Diversif	dowell County Econor	nie Development	Anthor Hy
UTM GPS NORTHING: 4,149,			
UTM GPS EASTING: 451,330		10N: 2138'	
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea let 2. Accuracy to Datum – 3.03 3. Data Collection Method: Survey grade GPS: Post Pro	r a plugging permit or assigned As will not accept GPS coordinate: 17 North, Coordinate Units: movel (MSL) — meters. 5 meters	API number on the es that do not meet	
	me Differential		
Mapping Grade GPS X: Post			RECEIVED
	-Time Differential		Office of Oil and Gas
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.			AUG 2 6 2021
preserioed by the Office of Off and C	Director Production	08/09/2021	WV Department of Environmental Protection
Signature	Title	Date	



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

Plugging Vertical Well Work Permit (API: 47-047-01178)

1 message

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

Wed, Sep 22, 2021 at 8:13 AM

To: "Mast, Jeff" <jmast@dgoc.com>, "Kennedy, Gary L" <gary.l.kennedy@wv.gov>, arbailey@assessor.state.wv.us

I have attached a copy of the newly issued well permit number "1403", API (47-047-01178). 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

