



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

Wednesday, October 19, 2022
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133


Re: Permit approval for 403
47-005-00111-00-00

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: 403
Farm Name: CASSINGHAM COAL LAND 
U.S. WELL NUMBER: 47-005-00111-00-00
Vertical Plugging
Date Issued: 10/19/2022

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4700500 111 P

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.

10/21/2022

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WV Department of
Environmental Protection

4700500111P

- 1) Date September 26, 2022
- 2) Operator's Well No. 21
- 3) API Well No. 47-005 - 00111

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 797.06 feet Watershed Bragg Fork of Big Horse Creek
District Scott County Boone Quadrangle Madison

6) Well Operator <u>Diversified Production, LLC</u>	7) Designated Agent <u>Charles Shafer</u>
Address <u>414 Summers Street</u>	Address <u>414 Summers Street</u>
<u>Charleston, WV 25301</u>	<u>Charleston, WV 25301</u>

8) Oil and Gas Inspector to be notified	9) Plugging Contractor
Name <u>Terry Urban</u>	Name <u>Next LVL Energy</u>
Address <u>P.O. Box 1207</u>	Address <u>1951 Pleasantview Ridge Road</u>
<u>Clendenin, WV 25045</u>	<u>Ravenswood, WV 26164</u>

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

See Attached

See Prog Page

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

Work order approved by inspector  Date 10-4-22

10/21/2022

Plugging Prognosis

API #: 4700500111

West Virginia, Boone Co.

Lat/Long: 38.11204, -81.89033

Nearest ER: CAMC Memorial Hospital 3200 MacCorkle Ave SE, Charleston, WV 25304

Casing Schedule:

10" @ 16'

8-1/4" @ 403' (no cement record)

6-5/8" @ 1335' (no cement record)

3-1/2" tbg @ 2275' (hookwall packer 3-1/2"x7x16 set at 2268'-2272')

TD @ 3616'

*Operator to pull
All free pipe*

Completion: Well shot at 2005'-2036', Original Perfs in original tbg: 2034'-2039'; 2059'-2064',

Recompletion Perfs: 2700'- 3616'

Fresh Water: 25'; 467'

Salt Water: 715'

Gas Shows: 926'; 1425'; 2006-2016'; 2817'; 2835'; 2960'; 3104'; 3133'; 3150'; 3158'; 3184'-3194'; 3414';
3434'

Oil Shows: None listed

Coal: 20'-23'

Elevation: 805'

*Operator to cover with ~~6~~ Cement All
Dil & Gas Formations including SALT, Elevation,
COALS & Freshwater Formations
New with
10-4-22*

1. Notify Inspector Terry Urban @ 304-549-5915, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Release packer, pull and lay down tbg.
4. Check TD and run CBL on 6-5/8" csg.
5. Run in to depth @ 3616'. Kill well as needed with 6% bentonite gel and fill rat hole. Pump at least 10 bbls gel. Pump 1016' C1A/Class L cement plug from **3616' to 2600' (perforations and gas show plug)**. Tag TOC. Pump plugs in stages as needed. Top off as needed.
6. TOOH w/ tbg to 2600'. Pump 6% bentonite gel from 2600' to 2064'.
7. TOOH w/ tbg to 2064'. Pump 159' C1A/Class L cement plug from **2064' to 1905' (Perforations and gas show plug)**.
8. TOOH w/ tbg to 1905'. Pump 6% bentonite gel from 1905' to 1425'.
9. Run wireline CBL to check TOC on 6-5/8" csg. If there is good cement above shoe, proceed with show plug.
10. TIH w/ tbg to 1425', pump 140' C1A/Class L cement plug from **1425' to 1285' (6-5/8" csg and gas show plug)**.
11. TOOH w/ tbg to 1285'. Pump 6% bentonite gel from 1285' to 926'.
12. Free point 6-5/8" csg. Cut and TOOH. Set 100' C1A/Class L cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
13. TOOH w/ tbg to 926', pump 311' C1A/Class L cement plug from **926' to 615' (gas show, elevation, saltwater plug)**.

47-005-0011P

14. TOOH w/ tbg to 615'. Pump 6% bentonite gel from 615' to 467'.
15. TOOH w/ tbg to 467', pump 114' C1A/Class L cement plug from 467' to 353' (fresh water, and 8-1/4" csg shoe plug).
16. Free point 8-1/4" csg. Cut and TOOH. Set 100' C1A/Class L cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
17. TOOH w/ tbg to 100'. Pump 100' C1A/Class L cement plug from 100' to surface (coal seam, freshwater, and surface plug).
18. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

SEE Instructions on Prog page


10-4-22

10/21/2022

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

47-005-00111 P

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WELL RECORD

Permit No. Boone-111-DD

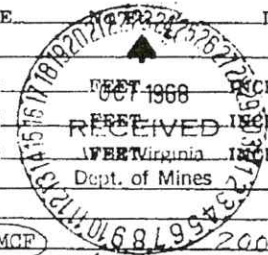
Oil or Gas Well Gas
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address Box 4168, Charleston, W. Va. 25304
Farm Cassingham Coal Land Co. Acres 2503.
Location (waters) Bragg Fork of Horse Creek
Well No. 21 (Serial No. 403) Elev. 805.0
District Scott County Boone
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Southern Land Co.
Box 1385 Address Charleston, W. Va. 25845
Drilling commenced 9-11-68
Drilling completed 10-8-68
Date Shot 10-9-68 From 3,616 To 2,700
With 8,700# Trojan Powder

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Hookwall
13			Size of
10			3-1/2 x 7 x 16
8 3/4			Depth set
6 3/4			2272'
5 1/2	2078'9"	Pulled	Perf. top
3-1/2"	2275'2"	2275'2"	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow 10ths Water _____ Inch
10ths Merc. in _____ Inch
Volume Berea Sand 17 MCF; Shells & Br. Sh. 183 Cu. Ft.
Rock Pressure Csg. 81#; Tbg. 372# in 7 days
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

M CASING CEMENTED _____ SIZE _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES



RESULT AFTER TREATMENT. Berea Sand 17 MCF Shells & Brown Shale 183 MCF
ROCK PRESSURE AFTER TREATMENT Casing 81# Tubing 372# in 7 days. 700,000
Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
					9-4-68 Pulled 2078'9" of 3-1/2" tubing Test 25.6 MCF Cleaned out to 2,078 ft. 9-11-68		
Sl. & Shls.	Dark	Medium	2078	2264			
Shells	Dark	Hard	2264	2285			
Slate	Dark	Soft	2285	2290			
Shells	Dark	Hard	2290	2303			
Sl. & Shls.	Dark	Soft	2303	2322			
Lime	Dark	Medium	2322	2344			
Sl. & Shls.	Light	Soft	2344	3174	Test 25'3' Show gas 2817' Show gas 2835' Show gas 2960' Test 3104' Gas 3133' Gas 3150' Gas 3158' Gas 3184'		16.2 M 17.5 M 18.1 M 19.3 M 17.3 M 18.3 M 20.7 M 21.6 M 23.7 M
Br. Shale	Brown	Soft	3174	3219			
Sl. & Shls.	Light	Soft	3219	3239			
Br. Shale	Brown	Soft	3239	3245			
Sl. & Shls.	Light	Soft	3245	3262			
Lime Shells	Light	Hard	3262	3275			
Sl. & Shls.	Light	Hard	3275	3328			
Br. Shale	Brown	Soft	3328	3350	Test 3333'		22.9 M
Sl. & Shls.	Light	Soft	3350	3403			
Br. Shale	Brown	Soft	3403	3434	Gas 3414' Gas 3434'		25.9 M 33.2 M
Slate	Light	Soft	3434	3454			

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Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Br. Shale Slate	Brown Light	Soft Soft	3454 3594	3594 3616	Test 3616' SIM 3616 = Sand IM 3613		33.2 1
	Dev. sh.		Total Depth	3616	10-9-68 Test before		33.2 1
		3616 2078 <u>1538</u>			King Torpedo Company shot the Shell and Brown Shale from 3616 to 2700 with 8,700# Trojan Gas Well A Pow Shot off 2:40 P.M.		
					Tests: 15 Min. 1,105 MC 1 Hr. 468 MC 2 Hrs. 398 MC SIM 2 hrs. A.S. 3424 9 Hrs. 268 MC		
					10-10-68 Tests: 15 Hrs. A.S. 230 MC 19 " " 208 MC		
					Ran 3-1/2" tubing on a hookwall pack set 2268' to 2272'		
					Tests after Berea Sand 17 MCF Shells & Br. Shale 183 MCF		
					7 Day Rock Pressure: Casing 81# Tubing 372#		

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Date OCTOBER 21, 19__

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Or.

By T. E. Mollencop
T. E. Mollencop (Title) Geological Dep

10/21/2022

Scott District, Boone County, W. Va.
The Owens, Libbey-Owens Gas Dept., Charleston, W. Va. (Box 1375).
On 2530 acres, surface and mineral rights owned by Cassingham
Coal Land Co., Coshocton, Ohio.

Drilled under permit Boo-111, issued May 16, 1930.
Elevation, 806' L.

10" conductor, 16'; 8 1/4" casing, 403'; 6-5/8" 1335'; 3" tubing, 2067'.

Heater anchor packer, 6-5/8 x 3, set at 1968'.

3" perforated at 2034-2039' and 2059-2064'.

Coal was encountered at 20-23'.

Abandonment? reported to Dept. of Mines July 9, 1935.

Well was shot at 2005-2036'.

Fresh water at 25'; salt water at 467 and 715'.

Gas well.

	Top.	Bottom.
Clay, dark, soft	0	20
Coal, black, soft	20	23
Sand, yellow, hard (hole full water at 25')	23	70
Slate, gray, soft	70	115
Sand, white, hard	115	130
Slate, gray, soft	130	152
Sand, brown, hard	152	162
Slate, black, soft	162	172
Sand, white, hard	172	187
Slate, black, soft	187	229
Slate, white, soft	229	248
Sand, white, hard	248	321
Slate, dark, soft	321	354
Sand, white, hard (6 bailers water per hr/ 467')	354	472
Slate, gray, soft	472	541
Sand, white, hard	541	593
Slate, gray, soft	593	597
Sand, white, hard	597	669
Slate, gray, soft	669	673
Salt Sand, white, hard (hole full water, 715')	673	802
Slate, dark, soft	802	837
Sand, gray, hard	837	852
Slate, dark, soft	852	872
Sand, white, hard (show gas, 926')	872	973
Slate, gray, soft	973	978
Sand, white, hard	978	1144
Slate, dark, soft	1144	1154
Maxton Sand, white, hard	1154	1224
Red rock, soft	1224	1229
Slate, black, soft	1229	1238
Sand, white, hard	1238	1250
Slate, black, soft	1250	1265
Little Lime, black, hard	1265	1299
Slate, white, soft	1299	1313
Big Lime, white, hard (show gas, 1425')	1313	1530
Big Injun Sand, red, hard	1530	1566
Slate and shells, gray, soft	1566	1587
Slate, gray, soft	1587	1630
Lime shells, black, hard	1630	1715
Slate, gray, soft	1715	1851
Lime shells, black, hard	1851	1856
Slate, black, soft	1856	1900

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CASSINGHAM COAL LAND CO. NO. 403 WELL (Continued).

	Top.	Bottom.
Slate and shells, gray, soft	1900	- 1934
Slate, black, soft	1934	- 1963
Lime shells, gray, hard	1963	- 1976
Slate, black, soft	1976	- 1991
Brown shale, soft (gas, 2006-2016')	1991	- 2006
Berea Sand, white, hard	2006	- 2034
Slate, black, soft	2034	- 2036
Lime shells, gray, hard	2036	- 2045
Slate, gray, soft	2045	- 2058
Slate and shells, gray, hard, to bottom	2058	- 2067

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Sl. & Shls.	Light	Soft	3219	3239		
Br. Shale	Brown	Soft	3239	3245		
Sl. & Shls.	Light	Soft	3245	3262		
Lime Shells	Light	Hard	3262	3275		
Sl. & Shls.	Light	Hard	3275	3328		
Br. Shale	Brown	Soft	3328	3350	Test 3333'	22.9 MC
Sl. & Shls.	Light	Soft	3350	3403		
Br. Shale	Brown	Soft	3403	3434	Gas 3414'	25.9 MC
Slate	Light	Soft	3434	3454	Gas 3434'	33.2 MC

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OCT 28 1968

10/21/2022

47005001119

WW-4A
Revised 6-07

1) Date: September 26, 2022

2) Operator's Well Number
21

3) API Well No.: 47 - 005 - 00111

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:
(a) Name Cassingham LLC
Address 170 Summers Street, Suite 300
Charleston, WV 25301
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Terry Urban
Address P.O. Box 1207
Clendenin, WV 25045
Telephone 304-549-5915

5) (a) Coal Operator
Name ERP Environmental Fund Inc. Attn: Barry Doss
Address 202 School Drive
Shrewsbury, WV 25015
(b) Coal Owner(s) with Declaration
Name Cassingham LLC
Address 170 Summers Street, Suite 300
Charleston, WV 25301
Name _____
Address _____
(c) Coal Lessee with Declaration
Name ERP Environmental Fund Inc. Attn: Barry Doss
Address 202 School Drive
Shrewsbury, WV 25015

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Environmental Protection

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: Austin Suller *Austin Suller*
Its: Plugging Manager
Address 414 Summers Street
Charleston, WV 25301
Telephone 304-419-2562

Subscribed and sworn before me this 27th day of September, 2022
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.

10/21/2022



To Whom it May Concern,

Attached is an amendment that has been submitted to Chief of the office of oil and gas of the West Virginia Department of Environmental Protection. The subject well is listed within the letter to the Chief.

Thank You.

7022 2410 0001 3247 0090

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Adult Signature Restricted Delivery \$

Postage
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Total 21 47-005-00111

Sent To ERP Environmental Fund Inc.
Attn: Barry Doss
Street 202 School Drive
City, State Shrewsbury, WV 25015

PS Form 3800, April 2013 PSN 7530-02-000-9047 See Reverse for Instructions

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Total Po 21 47-005-00111

Sent To Cassingham LLC
170 Summers Street, Suite 300
Street Charleston, WV 25301

PS Form 3800, April 2013 PSN 7530-02-000-9047 See Reverse for Instructions

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9/30/2022

James Martin
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304)926-0450

Mr. Martin,

Due to our cement provider, LaFarge Holcem, discontinuing the manufacturing of Class A cement, DGOE will be utilizing Class L cement to plug the following well:

Cassingham 21 47-005-00111

Attached is the approved variance order for use of Class L cement.

Sincerely,

Austin Sutler
Asset Retirement Manager

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west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-13
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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Promoting a healthy environment.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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10/21/2022

WW-9
(5/16)

API Number 47 - 005 - 00111
Operator's Well No 21

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) Bragg Fork of Big Horse Creek Quadrangle Madison

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 2D03902327002)
- 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

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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 Austin Sutler
Company Official (Typed Name) Austin Sutler
Company Official Title Plugging Manager



Subscribed and sworn before me this 27th day of September, 2022

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	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.

RECEIVED Office of Oil and Gas

OCT 03 2022

Plan Approved by:

[Handwritten Signature]

WV Department of Environmental Protection

Comments:

Title:

Inspect Oil & Gas

Date:

10-4-22

Field Reviewed?

Yes

No

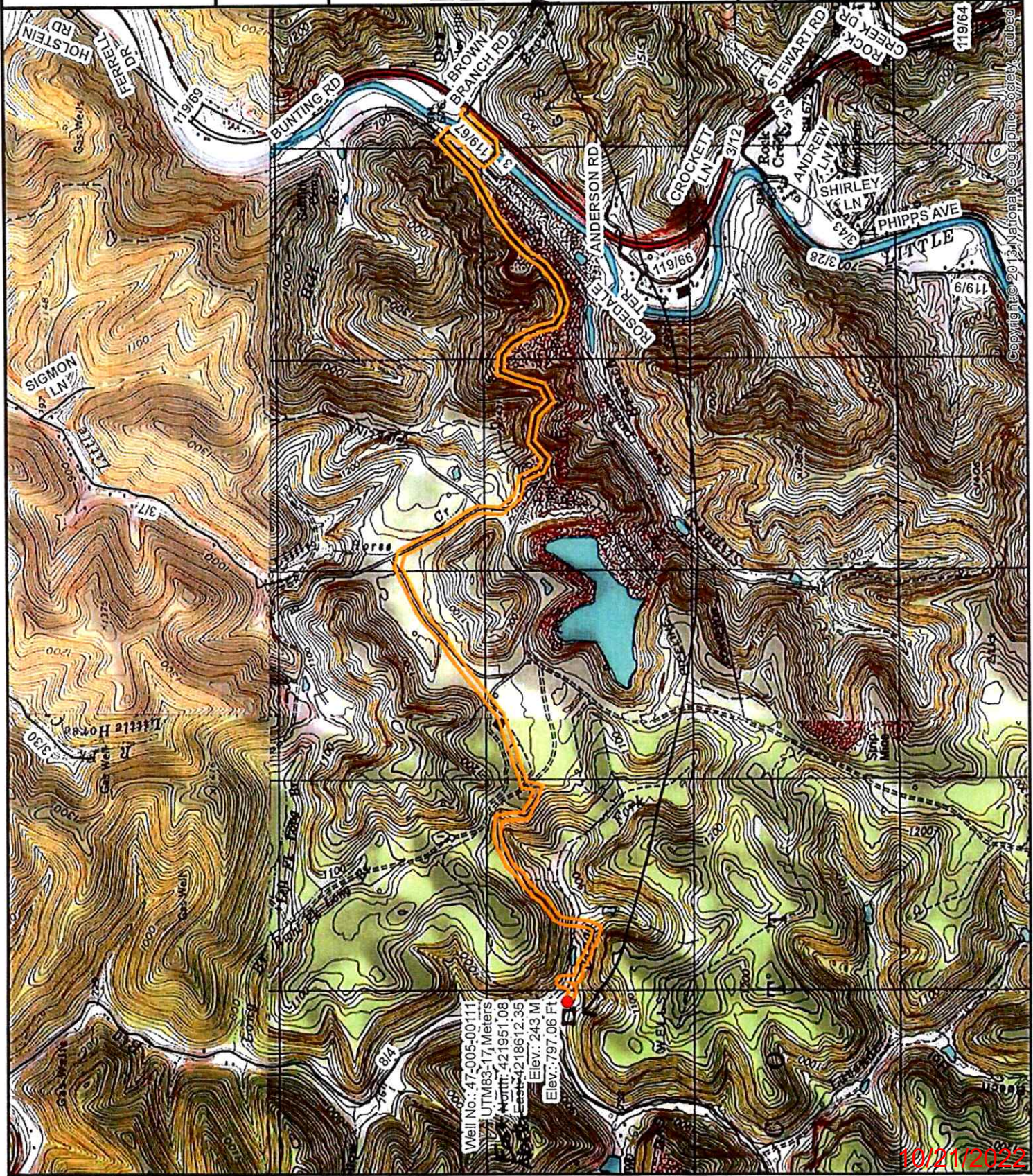
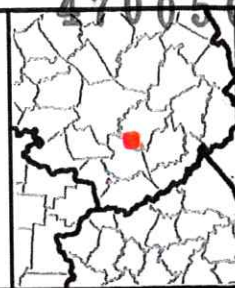


RECEIVED
Office of Oil and Gas
Diversified Energy
100 Diversified Way
P.O. Box 100
Louisville, KY 40251
2023
77-005-00111
Plugging Map

Legend

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

7 p.t
10' W
20' L
8' D
285 bbl



Well No.: 47-005-00111
UTM83-17 Meters
North: 421951.08
East: 4218612.35
Elev.: 243 M
Elev.: 797.06 Ft.

10/21/2022

4700500 111 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4700500111 WELL NO.: 21

FARM NAME: Cassingham Coal Land Co

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Boone DISTRICT: Scott

QUADRANGLE: Madison

SURFACE OWNER: Cassingham LLC

ROYALTY OWNER: Pardee Oil & Gas LLC

UTM GPS NORTHING: 4218612.35

UTM GPS EASTING: 421951.08 GPS ELEVATION: 797.06'

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 X : Post Processed Differential X
Real-Time Differential ____

RECEIVED
Office of Oil and Gas
OCT 03 2022
WV Department of
Environmental Protection

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

Digitally signed by Austin Suttler
Date: 2022.07.19 15:55:21
-04'00'

Plugging Manager
Title

7/19/2022
Date

10/21/2022



Kennedy, James P <james.p.kennedy@wv.gov>

Plugging permit issued 4700500111

1 message

Kennedy, James P <james.p.kennedy@wv.gov>

Wed, Oct 19, 2022 at 8:46 AM

To: Terry W Urban <terry.w.urban@wv.gov>, Austin Sutler <asutler@dgoc.com>, Phyllis Copley <pcopley@dgoc.com>, "scook@wvassessor.com" <scook@wvassessor.com>, pwhite@boonecountywv.net

To whom it may concern, a plugging permit has been issued for 4700500111.

James Kennedy

WVDEP OOG

2 attachments



4700500111.pdf
3664K



IR-8 4700500111.pdf
137K

10/21/2022