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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, March 7, 2024  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 4-1099  
47-045-00771-00-00

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: 4-1099  
Farm Name: PATTERSON, H. M.  
U.S. WELL NUMBER: 47-045-00771-00-00  
Vertical Plugging  
Date Issued: 3/7/2024

## 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

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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.
4. 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.

4704500771

Rev. 2/01

1) Date February 20 2024  
2) Operator's  
Well No. Fairson HW 41989  
3) API Well No. 10-117-00771

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 1009.15' Watershed King Shoals branch  
District Guvan County Logan Quadrangle Henlawson 7.5

6) Well Operator Diversified Production, LLC Designated Agent Chris Vealey  
Address 414 Summers Street Address 414 Summers Street  
Charleston, WV 26301 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Brian Warden  
Address 48 Elk Creek Rd. Name Next LVL Energy (Diversified Owned)  
Delbarton, WV 25670 Address 104 Hallipon Loop Rd  
Bridgeport, WV 25330

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

See Attached

*Operator TO Cover With Cement all  
CAS & oil formations including soft clastics and  
and fresh water*

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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 2/22/24

4704500771

## Plugging Prognosis

API #: 4704500771

West Virginia, Logan County

## Casing Schedule

10-3/4" @ 381' (Midget Bottom Hole Packer set on bottom in sand)

7" @ 1406' (cement information unknown)

TD @ 3578'

Completion: Perforation – Shot w/ 11,000# Trojan Powder from 2430'-3578'

Fresh Water: 270'; 554'; 600'; 649'; 693'

Salt Water: None Listed

Gas Shows: 1444'; 1568'; 3090'; 3186'; 3258'; 3476'; 3490'

Oil Shows: None Listed

Coal: None Listed

Elevation: 1009'

1. Notify Inspector Brian Warden @ (304) 205-3229, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ sandline/tbg.
4. Pump Gel between each plug.
5. Run in to 3578'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 1248' Class L cement plug from 3578' to 2330' (Completion and gas show plug). Tag TOC. Top off as needed.
6. TOOH w/ tbg to 1618'. Pump 262' Class L cement plug from 1618' to 1356' (Gas Show and 7" csg shoe plug).
7. Free point 7" csg. Cut and TOOH. Set 100' Class L cement plug across csg cut. 50' in/out of cut. TOOH w/ tbg to top of plug. Do not omit any plugs listed below. Perforate as needed. *Dr*
8. TOOH w/ tbg to 1059'. Pump 100' Class L cement plug from 1059' to ~~959'~~<sup>942'</sup> (Elevation plug).
9. TOOH w/ tbg to 743'. Pump 239' Class L cement plug from 743' to 504' (Fresh Water plug).
10. Free point 10-3/4" csg. Cut and TOOH. Set 100' Class L cement plug across csg cut. 50' in/out of cut. TOOH w/ tbg to top of plug. Do not omit any plugs listed below. Perforate as needed.
11. If the 10-3/4" csg doesn't pull, set a plug across the shoe. TOOH w/ tbg to 431'. Pump 100' Class L cement plug from 431' to 331' (10-3/4" csg shoe plug).
12. TOOH w/ tbg to 320'. Pump ~~100'~~<sup>Expanding</sup> Class L cement plug from 320' to ~~220'~~<sup>192'</sup> (Fresh water plug). *Dr*
13. TOOH w/ tbg to 100'. Pump 100' Class L cement plug from 100' to Surface (Surface plug). *RCOAL Plug*
14. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

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4704500771

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 15

Quadrangle Logan

WELL RECORD

Permit No. Log-771

Oil or Gas Well GAS  
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT  
Address P. O. Box 4168, Charleston 4, W. Va.  
Farm H. M. Patterson Acres 878  
Location (waters) \_\_\_\_\_  
Well No. 4 (Serial No. 1099) Elev 998.37  
District Logan County Logan  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Lessor  
Address \_\_\_\_\_  
Drilling commenced 4-12-60  
Drilling completed 6-3-60  
Date Shot 6-6-60 From 2430 To 3578  
With 11,100# Trojan Powder  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume Br. Shale 67 M. Cu. Ft.  
Rock Pressure 519 lbs. 7 days MS.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water 270' feet 554, 600 feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
13			
10 3/4"	381'2"	381'2"	Size of
8 5/8"	991'8"	Pulled	
7"	1403'	1403'	Depth set
5 3/16"			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

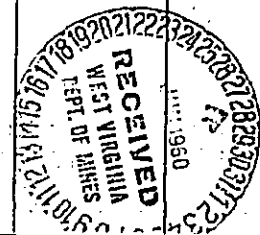
COAL WAS ENCOUNTERED AT 242 FEET 48 INCHES  
553 FEET 36 INCHES FEET INCHES  
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	---	Soft	0	15			
Slate	Black	Soft	15	26			
Sand	Grey	Hard	26	46			
Slate	Dark	Soft	46	51			
Sand	Grey	Hard	51	66			
Slate	Dark	Soft	66	98			
Sand	Light	Hard	98	118			
Slate	Dark	Soft	118	136			
Sand	Grey	Hard	136	176			
Slate	Black	Soft	176	218			
Sand	Light	Hard	218	242			
Coal	Dark	Soft	242	246			
Slate	Dark	Soft	246	249			
Lime	Dark	Hard	249	261			
Sand	Grey	Hard	261	553			
Coal	Black	Soft	553	556			
Slate	Dark	Soft	556	596			
Sand	Grey	Hard	596	611			
Slate	Dark	Soft	611	621			
Slate	Black	Soft	621	623			
Settling Sand	Light	Hard	623	649			
Sand	Grey	Hard	649	742			
Slate	Dark	Soft	742	747			
Sand	Grey	Hard	747	801			
Sl & Shls	Dark	Soft	801	816			
Sand	Grey	Hard	816	932			
Lime	Dark	Hard	932	940			
Red Rock	Red	Hard	940	965			
Slate	Light	Soft	965	978			
Red Rock	Red	Soft	978	988			
Lime	Grey	Hard	988	1003			

Water at 270', 1 BPH  
4-16-60  
Installed 10-3/4" csg. at 381' with  
Midget Bottom Hole Packer set on bottom  
in sand.  
Water at 554', 3 BPH  
Water at 600', hole filling  
Water at 649', hole full  
Water level 400' at 693

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Formation	Color	Hard or Soft	Top 15'	Bottom	Oil, Gas or Water	Depth Found	Remarks
					4-28-60		
					Installed 8-5/8" csg. at 992' with Midget Bottom Hole Spang Packer.		
Red Rock	Red	Soft	1003	1025			
Lime	Light	Hard	1025	1042			
Slate	Dark	Soft	1042	1048			
Red Rock	Red	Soft	1048	1078			
Lime	Grey	Hard	1078	1088			
Lime	Dark	Hard	1088	1113			
Slate	Dark	Soft	1113	1117			
Lime	Dark	Hard	1117	1124			
Sl & Shls	Dark	Soft	1124	1136			
Lime	Dark	Hard	1136	1162			
Red Rock	Red	Soft	1162	1191			
Lime	Dark	Hard	1191	1245			
Sand	Grey	Hard	1245	1274			
Lime	Dark	Hard	1274	1284			
Sand	Grey	Hard	1284	1294			
Slate	Dark	Soft	1294	1305			
L. Lime	Dark	Hard	1305	1355			
Slate	Dark	Soft	1355	1356			
Big Lime	Light	Hard	1356	1366			
Big Lime	Dark	Hard	1366	1386			
Big Lime	Light	Hard	1386	1460	5-5-60		
					Installed 7' csg. at 1406' on shoe in red clay		
					Gas 1444'		1.3 MCF
					SIM 1460 =	Sand IM 1460	
Big Lime	Grey	Hard	1460	1483			
Big Lime	White	Hard	1483	1607	Gas 1568'		7.7 MCF
Red Injun	Red	Hard	1607	1633			
Sl & Shls	Dark	Med.	1633	1696			
Weir Sand	Light	Hard	1696	1774			
Sl & Shls	Dark	Med.	1774	1808			
Sl & Shls	Light	Soft	1808	1903			
Sl & Shls	Dark	Med.	1903	1962			
Sl & Shls	Light	Med.	1962	2081			
Sl & Shls	Light	Soft	2081	2083			
Coffee Shale	Brown	Soft	2083	2099			
Berea	Grey	Hard	2099	2117	SIM 2102 =	Sand IM 2103	
Slate	Dark	Soft	2117	2123			
Berea	Light	Hard	2123	2160			
Lime Shells	Light	Hard	2160	2180			
Sl & Shls	Dark	Med.	2180	2332			
Lime Shells	Light	Hard	2332	2360	5-19-60		
					Pulled 8-5/8" casing		
Sl & Shls	Dark	Soft	2360	2405			
Sl & Shls	Dark	Med.	2405	2458			
Lime	Dark	Hard	2458	2493			
Sl & Shls	Dark	Soft	2493	2569			
Lime Shells	Light	Hard	2569	2599			
Sl & Shls	Dark	Med.	2599	2698			
Sl & Shls	Dark	Soft	2698	2766			
Sl & Shls	Dark	Med.	2766	2780			
Lime	Dark	Hard	2780	2797			
Sl & Shls	Light	Med.	2797	2951			
Sl & Shls	Dark	Med.	2951	3090	Test 3090'		1.5 MCF
Sl & Shls	Dark	Soft	3090	3176			
Br. Shale	Brown	Soft	3176	3255	SIM 3186 =	Sand IM 3186	
Lime Shells	Light	Hard	3255	3275	Gas-? 3258		2.2 MCF
Br. Shale	Brown	Soft	3275	3335			
Sl & Shls	Light	Med.	3335	3377			
Br. Shale	Brown	Soft	3377	3553	Test 3476'		1.5 MCF
					Gas 3490'		4.4 MCF
Slate	White	Soft	3553	3578			
			Total Depth 3578		SIM 3578 =	Sand IM 3573	

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WV Department of  
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Date June 22, 19 60

APPROVED OWENS, LIBREY-OWENS GAS DEPARTMENT Owner

By A. H. Smith  
A. H. Smith, (Title) Land, Engrg. & Geol. Mgr.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 15A

Sheet 2

Quadrangle Logan

Permit No. Log-77L

WELL RECORD  
CONTINUED

Oil or Gas Well GAS  
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT  
Address P. O. Box 4168, Charleston 4, W. Va.  
Farm H. M. Patterson Acres 878  
Location (waters) \_\_\_\_\_  
Well No. 4 (Serial No. 1099) Elev. 998.37  
District Logan County Logan  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced \_\_\_\_\_  
Drilling completed \_\_\_\_\_  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
13			
10			Size of
8 1/4			
6			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

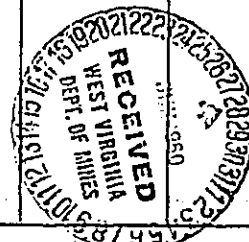
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
					6-6-60		Shot with 11,100# Trojan Powder from 2430 to 3573' (2:40 P.M.) Test Before Shot: 2.7 MCF Test 15 Min. After Shot: 1193 MCF Test 15 Hrs. " " 76 MCF
					6-7-60		Final Open Flow Br. Shale 67 MCF Shut in at 10: 30 A. M. in 7" casing

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES,  
Charleston, W. Va.

H. M. Patterson et als  
COAL OPERATOR OR COAL OWNER

P. O. Box 265, Holden, W. Va.  
ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

OWNER OF MINERAL RIGHTS

ADDRESS

OWENS, LIBBEY-OWENS GAS DEPARTMENT  
NAME OF WELL OPERATOR

P. O. Box 4168, Charleston 4, W. Va.  
COMPLETE ADDRESS

April 7, 1960

PROPOSED LOCATION

Logan District

Logan County,

Well No. 4 (Serial No. 1099) 81°55'E. 998.37'

H. M. Patterson Farm

878 acres

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, ~~having fee title thereto, - (or as the case may be)~~ under grant or lease dated July 7, 1959, made by H. M. Patterson et als, to Owens-Illinois Glass Co. & Libbey-Owens-Ford Glass Co., and recorded on the 11th day of December, 1958, in the office of the County Clerk for said County in Book 23, page 295.

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points, or land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped their workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by, or filed with the Department of Mines within ten\* days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that such objections must set forth as definitely as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address same day     before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

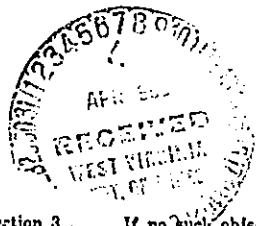
OWENS, LIBBEY-OWENS GAS DEPARTMENT  
WELL OPERATOR

P. O. Box 4168  
STREET

Charleston 4,  
CITY OR TOWN

West Virginia  
STATE

Address of Well Operator }



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WV Department of  
Environmental Protection

\*Section 3 . . . If no such objections be filed or be found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

4704500771

WW-4A  
Revised 6-07

1) Date: 2/9/2024  
2) Operator's Well Number Patterson HM 4-1099

3) API Well No.: 47 - 045 - 00771

**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>Benjamin F. Patterson</u>	Name _____
Address <u>PO Box 304</u>	Address _____
<u>Pecks Mill, WV 25547</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Brian Warden</u>	(c) Coal Lessee with Declaration
Address <u>49 Elk Creek Rd.</u>	Name _____
<u>Delbarton, WV 25670</u>	Address _____
Telephone <u>(304) 205-3229</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	<u>Diversified Production, LLC</u>	RECEIVED
By:	<u>Chris Veazey</u> <i>CV</i>	Office of Oil & Gas
Its:	<u>Director of Administration</u>	<b>FEB 27 2024</b>
Address	<u>414 Summers Street</u>	
	<u>Charleston, WV 25301</u>	WV Department of
Telephone	<u>304-590-7707</u>	Environmental Protection

Subscribed and sworn before me this 9th day of February, 2024  
Jeffrey Bush Notary Public  
My Commission Expires September 28, 2028



**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

4704500771

API 47-045-00771

Coal Owners

Benjamin F. Patterson	PO Box 304 Pecks Mill, WV 25547
Alyce Patterson	PO Box 1123 Mt. Gay, WV 25637
Clarence Patterson, Jr.	PO Box 376 Mt. Gay, WV 25637
James Patterson	601 Declaration Dr. Charles Town, WV 25414
Mary Midkiff	2153 Thunder Rd. Chapmanville, WV 25508
Sarah Matthews	12315 Tracey Ann Rd. Jacksonville, FL 32223

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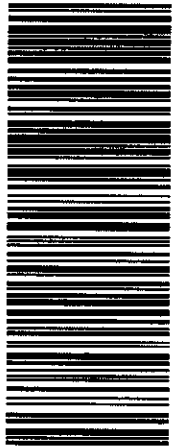
**FEB 27 2024**

WV Department of  
Environmental Protection

4704500771

Diversified Gas & Oil Corporation  
Permitting Department  
414 SUMMERS STREET  
2ND. FLOOR  
CHARLESTON WV 25301

USPS CERTIFIED MAIL™



9407 1362 0855 1329 4027 33



BENJAMIN F PATTERSON  
PO BOX 304  
PECKS MILL WV 25547-0304

US POSTAGE AND FEES PAID  
2024-02-09  
25301  
C4000004  
Retail  
4.0 OZ/FLAT



0901000010716



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Diversified Gas & Oil Corporation  
Permitting Department  
414 SUMMERS STREET  
2ND. FLOOR  
CHARLESTON WV 25301

USPS CERTIFIED MAIL™



9407 1362 0855 1329 4167 78



ALYCE PATTERSON  
PO BOX 1123  
MOUNT GAY WV 25637-1123

US POSTAGE AND FEES PAID  
2024-02-09  
25301  
C4000004  
Retail  
4.0 OZ/FLAT



0901000010709

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Environmental Protection

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Diversified Gas & Oil Corporation  
Permitting Department  
414 SUMMERS STREET  
2ND. FLOOR  
CHARLESTON WV 25301

USPS CERTIFIED MAIL™



9407 1362 0855 1329 4297 16

CLARENCE PATTERSON JR  
PO BOX 376  
MOUNT GAY WV 25637-0376

US POSTAGE AND FEES PAID  
2024-02-09  
25301  
C4000004  
Retail  
4.0 OZ/ELAT



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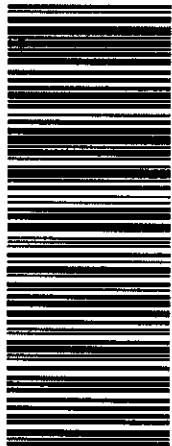
FEB 27 2024

WV Department of  
Environmental Protection

4704500771

Diversified Gas & Oil Corporation  
Permitting Department  
414 SUMMERS STREET  
2ND. FLOOR  
CHARLESTON WV 25301

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9407 1362 0855 1329 4433 30



JAMES PATTERSON  
601 DECLARATION DR  
CHARLES TOWN WV 25414-5590

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MARY MIDKIFF  
2153 THUNDER RD  
CHAPMANVILLE WV 25508-9481

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CHARLESTON WV 25301

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SARAH MATTHEWS  
12315 TRACY ANN RD  
JACKSONVILLE FL 32223-2066

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**SURFACE OWNER WAIVER**

**4704500771**

Operator's Well  
Number

Patterson HM 4-1099

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or remedy the violation..."

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WV Department of the  
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**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,  
ETC.

_____	Date _____	Name _____	_____
Signature		By	_____
		Its	_____
			Date _____
		Signature	_____
			Date _____

WW-4B

4704500771

API No.	4704500771
Farm Name	HM Patterson
Well No.	Patterson HM 4-1099

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator  / owner  / lessee  of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_

Its \_\_\_\_\_

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WV Department of  
Environmental Protection



**DIVERSIFIED**  
energy

4704500771

Date: 2/9/2024

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

Mr. Martin,

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

API Number 4704500771 Well Name Patterson HM 4-1099

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

Sincerely,

Chris Veazey  
Permitting Supervisor  
304-590-7707

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WV Department of  
Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> 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 )  
SECTION 14.1. AND LEGISLATIVE RULE )  
35CSR8 SECTION 20.1, )  
RELATING TO THE CEMENTING )  
OF OIL AND GAS WELLS )**

**ORDER NO. 2022-13**

**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.

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Office of Oil & Gas

**FINDINGS OF FACT**

**FEB 27 2024**

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance, WV Department of Environmental Protection 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.

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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FEB 27 2024  
WV Department of  
Environmental Protection

4704500771

WW-9  
(5/16)

API Number 47 - 045 - 00771  
Operator's Well No. Patterson HM 4-1099

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) King Shoal Branch Quadrangle Henlawson 7.5'

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: Production 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 2D03902327 002 )
- 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 *Chris Veazey*  
Company Official (Typed Name) Chris Veazey  
Company Official Title Manager Plugging Operations

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WV Department of  
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Subscribed and sworn before me this 9th day of February, 2024

*Jeffrey Bush* Notary Public  
September 28, 2028

My commission expires \_\_\_\_\_



4704500771

Form WV-8

Operator's Well No. Paterson H# 4-1099

Proposed Revegetation Treatment Acres Disturbed 1.100 Revegetation pH \_\_\_\_\_

Lime <sup>3</sup> \_\_\_\_\_ Tons/acre or to correct to pH 6.5

Fertilizer type 16-20-20 or Equivalent

Fertilizer amount TBD \_\_\_\_\_ lbs/acre

Mulch <sup>2</sup> \_\_\_\_\_ Tons/acre

Seed Mixture

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:

Map(s) of road, location, pit and proposed area for land application (or has 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: Brian Walsh

Comments: Must be rechecked to DEP standards

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Title: D. Inspect

Date

2/27/24

Field Reviewed?

Yes

No



4704500771








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

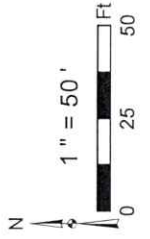
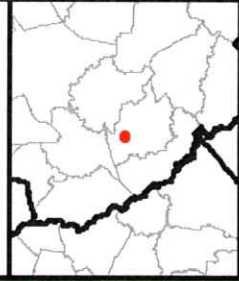
47-045-00771

Plugging Map

**Legend**

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

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Well No.: 47-045-00771  
 UTM 83-17 Meters  
 North: 4197064.23  
 East: 412498.32  
 Elev.: 307.67 M  
 Elev.: 1009.15 Ft

Primary Pit

Secondary Pit

Source: Esri, Maxar, Earthstar Geographies, and the GIS User Community

4704500771








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

47-045-00771

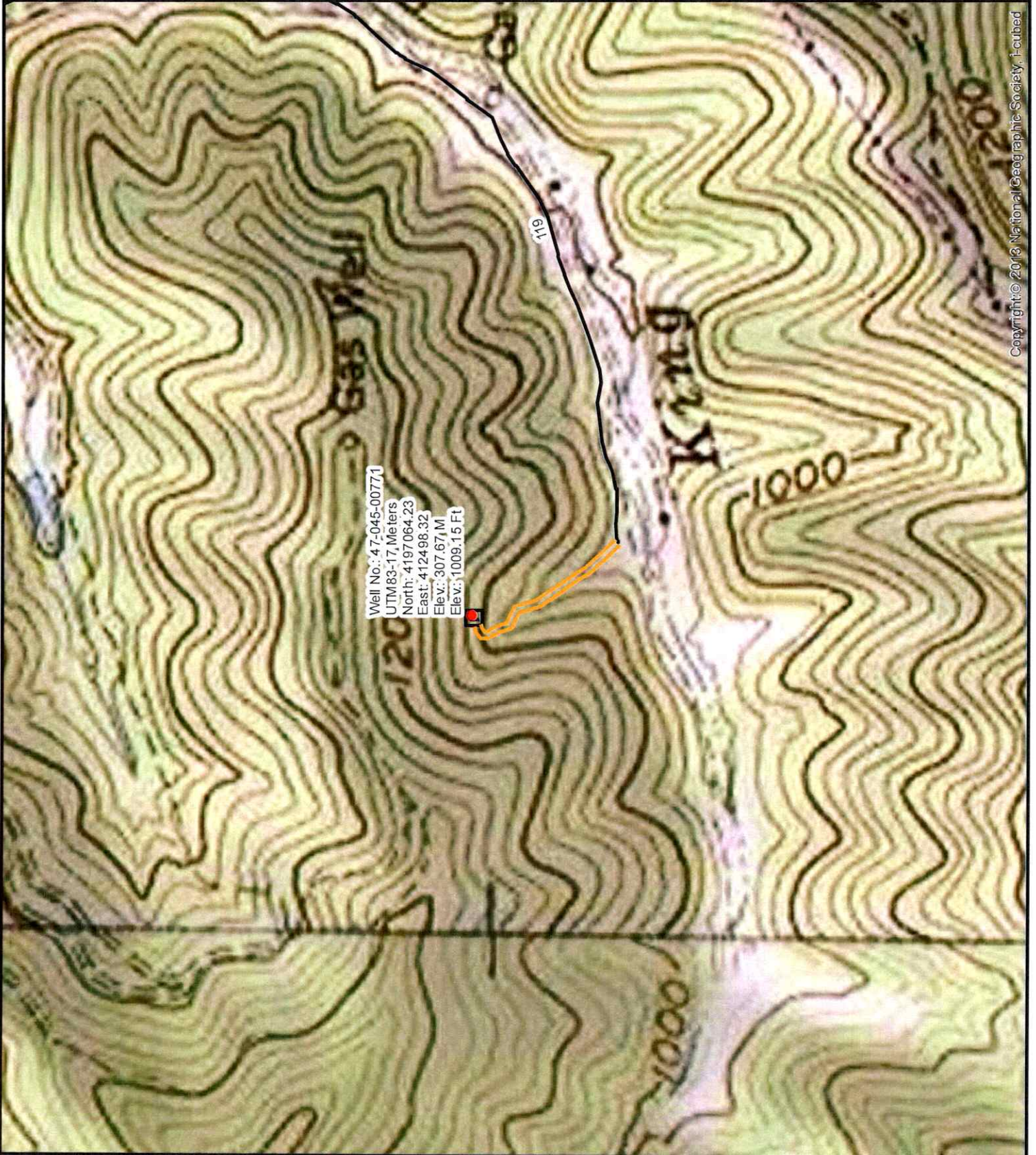
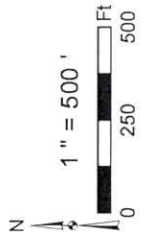
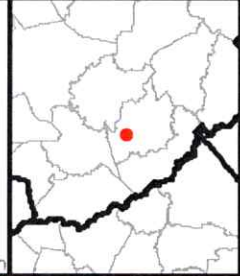
Plugging Map

**Legend**

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

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4704500771

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 4704500771 WELL NO.: Patterson HM 4-1099

FARM NAME: HM Patterson

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Logan DISTRICT: Guyan

QUADRANGLE: Henlawson 7.5'

SURFACE OWNER: Benjamin F. Patterson

ROYALTY OWNER: Ask Patrick

UTM GPS NORTHING: 4197064.23

UTM GPS EASTING: 412498.32 GPS ELEVATION: 1009.15'

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 \_\_\_\_


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

  
Signature

Chris Veazey - Director of Administration  
Title

02/09/24  
Date

11/10/2016

PLUGGING PERMIT CHECKLIST  
4704500771

## 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**

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