



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

Thursday, June 13, 2024

WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for PATTERSON 12S
47-045-02121-00-00

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:
Farm Name: MIDKIFF, MARY
U.S. WELL NUMBER: 47-045-02121-00-00
Vertical Plugging
Date Issued: 6/13/2024

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

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.

1) Date April 24, 2024
2) Operator's
Well No. MIDKIFF, MARY - PATTERSON 123
3) API Well No. 47-045 - 02121

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 867.32 Watershed King Shoal Branch
District Chapmanville/Guyan County Logan Quadrangle Henlawson 7.5

6) Well Operator Diversified Production, LLC 7) Designated Agent Chuck Shafer
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Brian Warden
Address 49 Elk Creek Rd.
Delbarton, WV 25670
9) Plugging Contractor Name Next LVL Energy (Diversified Owned)
Address 104 Helliport Loop Rd
Bridgeport, WV 25330

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

See Attached

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Oil and Gas
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WV Department
Environmental Protection

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

Work order approved by inspector  Date 5-6-24

Plugging Prognosis

API #: 4704502121

West Virginia, Logan County

Lat/Long: 37.92121, -81.994203

Nearest ER: Logan Regional Medical Center – Emergency Room – 20 Hospital Dr, Logan, WV 25601

Quadrangle_15 – Logan

Casing Schedule

13-3/8" @ 29' – No Cementing Information

9-5/8" @ 262' – CTS w/ 105 sks/119 cu ft

7" @ 1173' – Cemented w/ 65 sks/114 cu ft – ETOC @ 479' using 8-3/4" OH & 40' shoe track

4-1/2" @ 1004' – No Cementing Information

2-3/8" @ 1067' – No Packer Information

TD @ 1210'

Completion

Maxton: 1052'-1060' (48 Shots) – Guessing 1512 gallon 15% HCl acid job from limited information

Fresh Water: 30'

Salt Water: 460'

Gas Shows: None Reported

Oil Shows: None Reported

Coal: None Reported

Elevation: 840.7'

1. Notify Inspector Christian Porter @ 304-541-0079, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Blow well down. Kill with fluid as necessary.
4. Pump 6% bentonite gel in between all cement plugs.
5. TOOH w/ 2-3/8" tbg, laying down.
6. Free point 4-1/2" csg. Record TOC for later use.
7. TIH w/ tbg to 1200'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel.
8. Pump 410' Class L cement plug from 1200' to 790' (7" Csg Shoe, Maxton Completion, 4-1/2" Csg Shoe, & Elevation Plug). WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
9. TOOH w/ tbg to 790'. Pump 10 bbl 6% bentonite gel spacer.
10. TOOH w/ tbg.
11. Cut 4-1/2" csg just above TOC and TOOH.
12. TIH w/ tbg and 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. Can combine csg cut plug with 7" Csg Shoe, Completion, 4-1/2" Csg Shoe, & Elevation plug if feasible depending on location of 4-1/2" csg cut.

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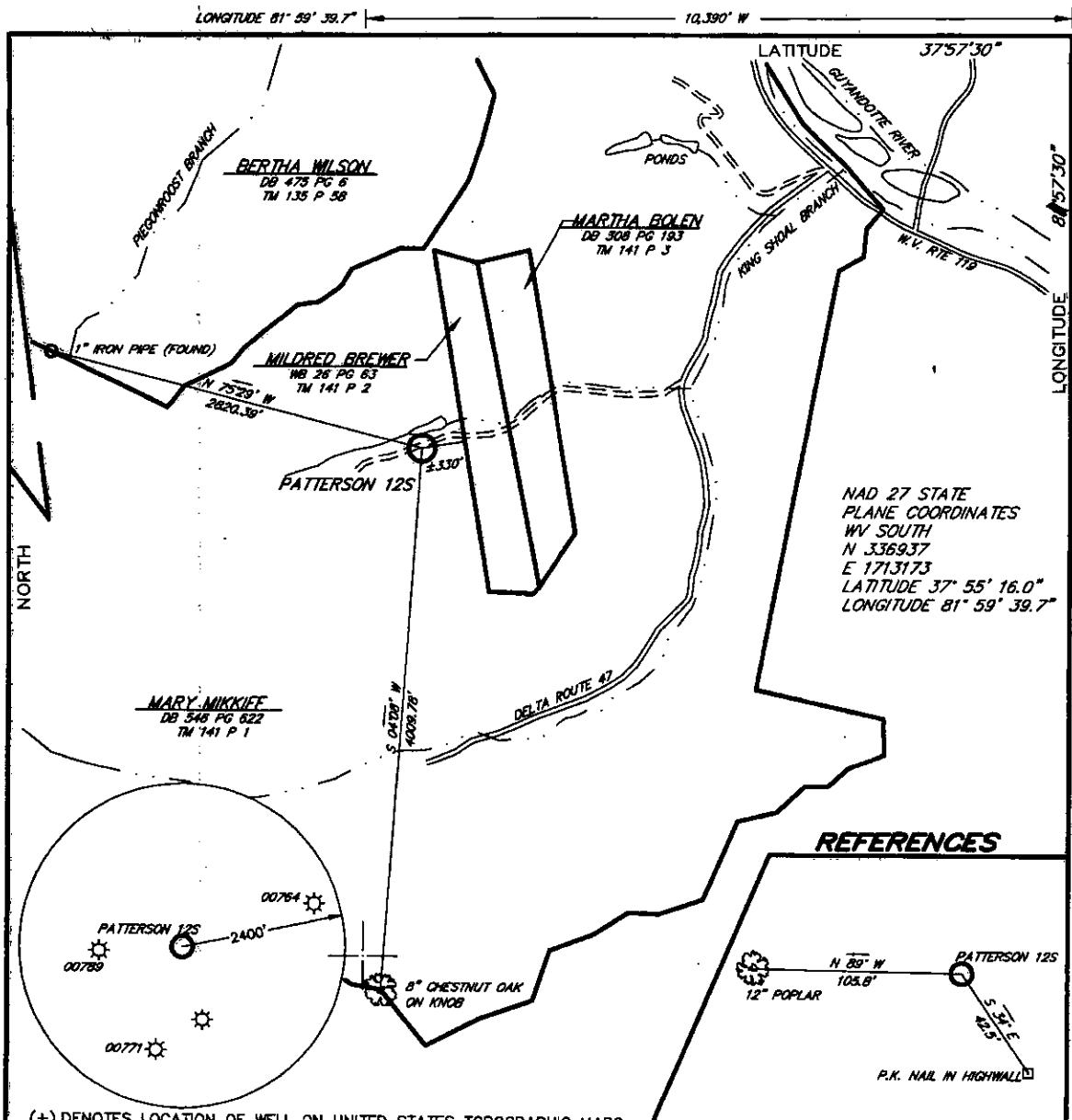
06/14/2024

13. TOOH w/ tbg to 510'. Pump 100' Class L cement plug from 510' to 410' (Saltwater Show Plug).
Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
14. TOOH w/ tbg to 410'. Pump 6% bentonite gel spacer from 410' to 312'.
15. TOOH w/ tbg to 312'. Pump ^{60'}xxx' Class L cement plug from 312' to 212' (9-5/8" Csg Shoe Plug).
Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed.
16. TOOH w/ tbg to 212'. Pump 6% bentonite gel spacer from 212' to 120'.
17. TOOH w/ tbg to 120'. Pump 120' Class L cement plug from 120' to Surface (Surface Plug). Top off as needed.
18. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

AP

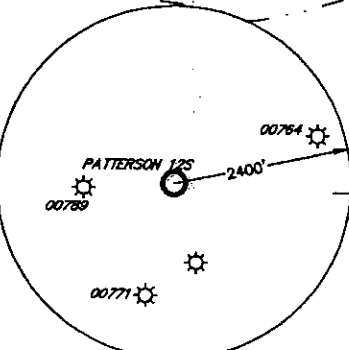
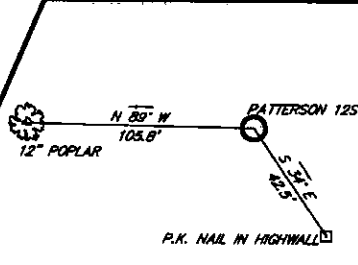
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NAD 27 STATE
PLANE COORDINATES
WV SOUTH
N 336937
E 1713173
LATITUDE 37° 55' 16.0"
LONGITUDE 81° 59' 39.7"

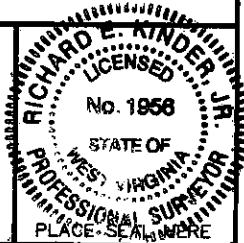
REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 07094
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1:2500
PROVEN SOURCE OF ELEVATION GPS OBSERVATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.
(SIGNED) _____
R.P.E. _____ I.L.S. 1956



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

DATE JULY 7, 2008
OPERATOR'S WELL NO. PATTERSON 125
API WELL NO. _____

47 - 045 - 02121
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 840.7 WATERSHED TRIBUTARY OF KING SHOAL BRANCH
DISTRICT GUYAN COUNTY LOGAN
QUADRANGLE HENLAWSON 7.5'

SURFACE OWNER MARY MIKKIEFF ACREAGE _____
OIL & GAS ROYALTY OWNER PATTERSON HEIRS LEASE ACREAGE 0.78
LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION DEVONIAN-SHIRE ESTIMATED DEPTH 3946'
WELL OPERATOR CAROT OIL & GAS CORPORATION DESIGNATED AGENT THOMAS S. LIBERATORE
ADDRESS 900 LEE STREET EAST SUITE 1500 ADDRESS 900 LEE STREET EAST SUITE 300
CHARLESTON, WV 25301 CHARLESTON, WV 25301

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FORM WV-8

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Mary Midkiff Operator Well No.: Patterson #12S

LOCATION: Elevation: 846' Quadrangle: Henlawson
District: Guyan County: Logan
Latitude: 13570' feet South of 37° DEG. 57' MIN. 30" SEC.
Longitude: 10400' feet West of 82° DEG. 57' MIN. 30" SEC.

Company: Cabot Oil & Gas Corporation
900 Lee Street East, Suite 500
Charleston, WV 25301

Agent: Thomas S. Liberatore
Inspector: Ralph Triplett
Permit Issued: 8/14/2008
Well Work Commenced: August 19, 2008
Well Work Completed: September 25, 2008
Verbal Plugging: _____
Permission granted on:
Rotary X Cable _____
Total Depth (feet) 1210'
Fresh Water Depths (ft) 30'
Salt Water Depths (ft) 460'
Is coal being mined in area (Y / N) ? NO
Coal Depths (ft) NONE REPORTED

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	29'	29'	
9-5/8"	262'	262'	119
7"	1173'	1173'	114
4-1/2"		1004'	
2-3/8"		1067'	

OPEN FLOW DATA

Producing Formation MAXTON Pay Zone 1052'-1060'
Depth (ft) _____
Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d
Final Open Flow 197 (COMMINGLED) MCF/d Final Open Flow 0 Bbl/d
Time of open flow between initial and final tests 2 Hours
Static rock pressure 370 psig surface pressure after 128 Hours

Second Producing Formation _____ Pay Zone _____
Depth (ft) _____
Gas: Initial Open Flow _____ MCF/d Oil: Initial Open Flow _____ Bbl/d
Final Open Flow _____ MCF/d Final Open Flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig surface pressure after _____ Hours

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 SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: CABOT OIL & GAS CORPORATION

By: [Signature] Drilling Superintendent
Date: 5/8/09

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STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Maxton	1052-1060 (48)	1512				1200	1500	2618	1700

FORMATION	TOP	BOTTOM	REMARKS
SILT/SHALE	SURFACE	454	
SALT SANDS	454	705	
SILT/SHALE	705	948	
MAXTON SECTION	948	1060	
SILT/SHALE	1060	1190	TD

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Form: WW - 2B

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator Cabot Oil & Gas Corporation 08145 045 Guyan Henlawson
Operator ID County District Quadrangle

2) Operators Well Number: PATTERSON 12S 3) Elevation: 840.7'

4) Well Type: (a) Oil _____ Or Gas X
(b) If Gas: Production X / Underground Storage _____
Deep _____ / Shallow X

5) Proposed Target Formation(s): DEVONIAN SHALE

6) Proposed Total Depth: 4100 Feet

7) Approximate fresh water strata depths: 101'

8) Approximate salt water depths: 448'

9) Approximate coal seam depths: 548'

10) Does land contain coal seams tributary to active mine? NO

11) Describe proposed well work DRILL AND COMPLETE A DEVONIAN SHALE GAS WELL.

12) Based upon COGC GEOLOGY and COGC/Coal Company Maps.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13-3/8"	LS	37	40'	40'	GFS
Fresh Water/Coal	9-5/8"	LS	26	250'	250'	ROT 147 ft ³ (CTS) <u>06/12/08</u>
Intermediate	7"	LS	17	1140'	1140'	229 ft ³ (CTS)
Production	4-1/2"	M-60	10.5		4050'	389 ft ³
Tubing						
Liners						

CEMENT YIELD: 9-5/8" CSG. = 1.2 cu ft/sx, 7" CSG. = 1.24 cu ft/sx, AND 4-1/2" Casing = 1.51 cu.ft/sx Lead (620') and 1.95 cu.ft/sx.Tail

Cement used on the 9-5/8" casing is Schlumberger's BlueSURF approved by Waiver 2004-02.

1900016240
b 650

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Office of Chief
JUN 11 2008
WV Department of
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06/14/2024

1) Date: 4/24/2024
2) Operator's Well Number MIDKIFF, MARY - PATTERSON 12S

3) API Well No.: 47 - 045 - 02121

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>Mary Midkiff</u>	Name <u>Not Currently Operated</u>
Address <u>2153 Thunder Rd.</u>	Address _____
<u>Chapmanville, WV 25508</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 Diversified Production, LLC
 By: Chris Veazey *CSV*
 Its: Director of Administration
 Address 414 Summers Street
Charleston, WV 25301
 Telephone 304-590-7707

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Office of Oil and Gas

MAY 23 2024
WV Department of
Environmental Protection

Subscribed and sworn before me this 24th day of April, 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 depprivacyofficer@wv.gov.

06/14/2024

Coal Owners

API 47-045-02121

Benjamin Franklin Patterson

PO Box 304
Pecks Mill, WV 25547

Mary Midkiff

2153 Thunder Rd.
Chapmanville, WV 25508

Alyce Patterson

PO Box 1123
Mount Gay, WV 25637

Clarence Patterson

PO Box 376
Mount Gay, WV 25673

James Edward Patterson

601 Declaration Dr.
Charles Town, WV 25414

Sarah Patterson Matthews

12315 Tracy Ann Rd.
Jacksonville, FL 32223

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Surface Coal and Gas
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WV Department of
Environmental Protection

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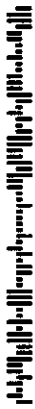
Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
CHARLESTON WV 25301

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USPS CERTIFIED MAIL™



9407 1362 0855 1884 0552 21



MARY MIDKIFF
2153 THUNDER RD
CHAPMANVILLE WV 25508-9481

US POSTAGE AND FEES PAID
2024-04-24
25301
CA000004
Retail

4 0 QZPLAT



06/14/2024

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

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9407 1362 0855 1884 0735 91



ALYCE PATTERSON
PO BOX 1123
MOUNT GAY WV 25637-1123

US POSTAGE AND FEES PAID 
2024-04-24
25301
CA000004
Retail
4.0 OZ FLAT

0901000010715

06/14/2024

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

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9407 1362 0855 1884 0846 34



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

US POSTAGE AND FEES PAID
2024-04-24
25301
CA1000004
Retail
4.0 OZ FLAT



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

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9407 1362 0855 1884 0941 21



CLARENCE PATTERSON
PO BOX 376
MOUNT GAY WV 25637-0376

US POSTAGE AND FEES PAID
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25301
CA000004
Retail
4.0 OZ FLAT



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

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9407 1362 0855 1884 1044 55



JAMES EDWARD PATTERSON
601 DECLARATION DR
CHARLES TOWN WV 25414-5590

US POSTAGE AND FEES PAID
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25301
C4000004
Retail
4.0 OZ FLAT



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Diversified Gas & Oil Corporation
Permitting Department
414 SUMMERS STREET
2ND. FLOOR
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USPS CERTIFIED MAIL™



9407 1362 0855 1884 1183 84



SARAH PATTERSON MATTHEWS
12315 TRACY ANN RD
JACKSONVILLE FL 32223-2066

US POSTAGE AND FEES PAID
2024-04-24
25301
C4000004
Retail
4.0 OZ FLAT



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06/14/2024

SURFACE OWNER WAIVER

Operator's Well
Number

MIDKIFF, MARY - PATTERSON 12S

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 57th 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 seek review of the violation...".

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.

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MAY 13 2024

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received a copy of the permit 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,

Signature

Date

Name
By

Its

Date

Signature
Date
06/14/2024

WW-4B

API No. 4704502121
Farm Name Mary Midkiff
Well No. MIDKIFF, MARY - PATTERSON 12S

**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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Office of Oil and Gas
MAY 18 2024
WV Department of
Environmental Protection

06/14/2024

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 QuadrangleHenlawson 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 Permitting Supervisor



Subscribed and sworn before me this 24th day of April, 2024

Jeffrey Bush Notary Public

My commission expires September 28, 2028

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Proposed Revegetation Treatment: Acres Disturbed +- 1 ac. Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or Equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Operator to cover with cement all oil and gas formations including Salt, elevation, Coals and Ashtrays

Title: Inspector

Date: 5-6-24

Field Reviewed?

Yes

No

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WV Department of
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DIVERSIFIED
energy

Date: 4/24/2024

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, DGOC will be utilizing Class L cement to plug the following well:

API Number 4704502121 Well Name MIDKIFF, MARY - PATTERSON 12S

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

Sincerely,

Chris Veazey
Permitting Supervisor
304-590-7707

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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)
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.

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.

Promoting a healthy environment.

06/14/2024

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.

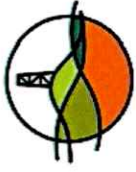
Dated this, the 13th day of September, 2022.

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








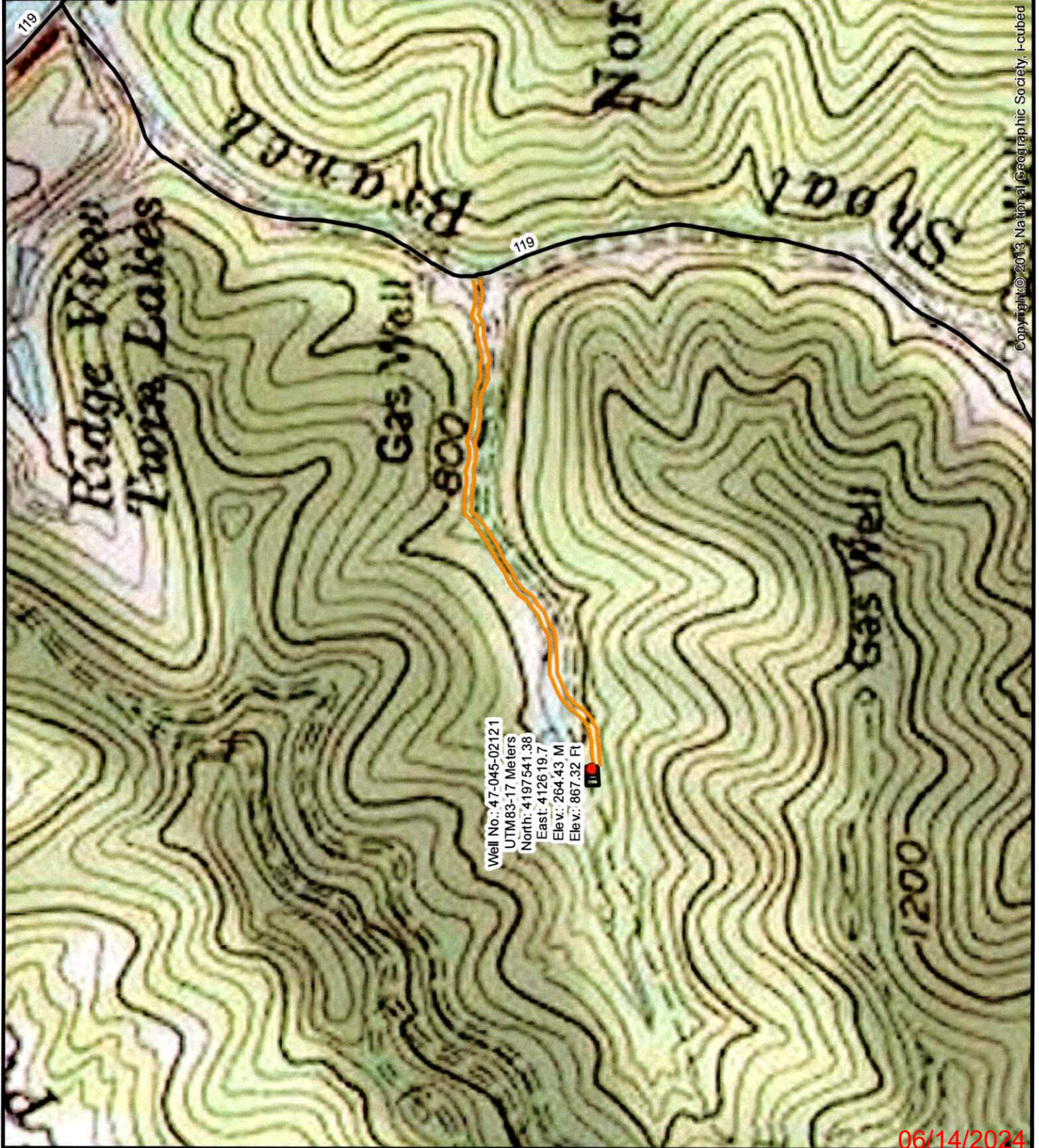
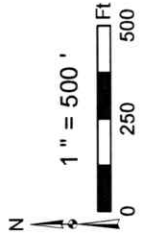
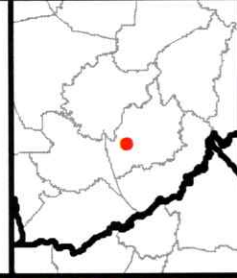
Diversified Gas & Oil Corporation
 100 Diversified Way
 Pikeville KY, 41051

47-045-02121

Plugging Map

Legend

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



Well No.: 47-045-02121
 UTM83-17 Meters
 North: 4197541.38
 East: 412619.7
 Elev.: 264.43 M
 Elev.: 867.32 Ft

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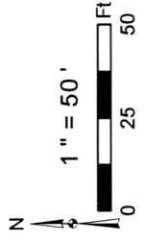
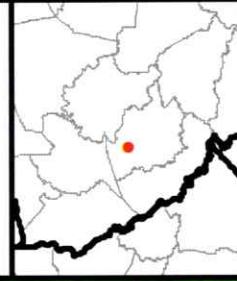
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Plugging Map

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- Well
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Well No.: 47-045-02121
UTM83-17, Meters
North: 4197541.38
East: 412619.7
Elev.: 264.43 M
Elev.: 867.32 Ft

Primary Pit
Pit
Secondary

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

06/14/2024

WW-7
8-30-06



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

API: 4704502121 WELL NO.: MIDKIFF, MARY - PATTERSON 12S

FARM NAME: Mary Midkiff

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Logan DISTRICT: Champanville/Guyan

QUADRANGLE: Henlawson 7.5'

SURFACE OWNER: Mary Midkiff

ROYALTY OWNER: Patterson Heirs

UTM GPS NORTHING: 4197541.38

UTM GPS EASTING: 412619.7 GPS ELEVATION: 867.32'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.


Signature

Chris Veazey - Director of Administration
Title

4/29/24
Date

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11/10/2016

PLUGGING PERMIT CHECKLIST
4704502121

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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