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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)

Friday, July 7, 2023  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

UNKNOWN - DEP PAID PLUGGING CONTRACT  
601 57TH STREET

CHARLESTON, WV 25304

Re: Permit approval for Patterson #1  
47-011-01014-00-00

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: Jonora R Patterson  
U.S. WELL NUMBER: 47-011-01014-00-00  
Vertical Plugging  
Date Issued: 7/7/2023

# 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.

1) Date 6/19, 20 23  
2) Operator's  
Well No. PATTERSON # 1  
3) API Well No. 47- 011 - 01014

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 572' Watershed TRACE CREEK/MUD RIVER  
District GRANT County CABELL Quadrangle WEST HAMLIN

6) Well Operator WV DEP PAID PLUGGING CONTRACT 7) Designated Agent JASON HARMON  
Address 601 57TH STREET S E Address 601 57TH STREET S E  
CHARLESTON, WV 25304 CHARLESTON, WV 25304

8) Oil and Gas Inspector to be notified Name ALLEN FLOWERS  
Address 165 GRASSY LICK ROAD  
LIBERTY, WV 25124  
9) Plugging Contractor Name UNKNOWN AT THIS TIME  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:  
**SEE PLUGGING WORK PLAN ON NEXT PAGE.**

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

Work order approved by inspector ALLEN FLOWERS Date 6/19/2023

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JUN 26 2023  
WV Department of  
Environmental Protection

**WELL PLUGGING PROJECT**

**47 - 011 - 01014**

**Patterson # 1**

**Well detail:**

The Office of Oil and Gas has no well record for the subject well. Reference well 47-011-00318 will be used for down hole conditions. The record shows well TD at 2,000 feet with 140' of 8-1/4" casing, 1541' of 6-5/8" casing and 1541' of 2" tubing set in packer at 1541'. The record shows fresh water at 303' and 404'. Salt water at 853' and 990'. Gas at 1445', Coal was not reported. The well site elevation is 572'.

**Site-based considerations:**

The well is located in a field 30 feet from Trace Fork Rd. The well site is flat and covered in grass. Trace Fork Stream is located about 60' behind the well site. The well is currently leaking water, oil and gas at the surface from the open 6-5/8" casing. The well site is swampy with poor drainage. There is no storage tank or production line associated with the subject well. OOG will contact locate 811 to mark all subsurface utilities.

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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

offset well record

WELL RECORD

Permit No. CAB 318

Oil or Gas Well Gas  
(Kind)

Company Thermal Gas Company  
 Address Box 695, Charleston, West Va.  
 Farm O. C. Porter Acres 63  
 Location (waters) Trace Creek  
 Well No. 1 Elev. 572  
 District Grant County Cabell  
 The surface of tract is owned in fee by O. C. Porter  
 Address Milton, West Va.  
 Mineral rights are owned by O. C. Porter  
 Address Milton, West Va.  
 Drilling commenced June 18, 1938  
 Drilling completed Sept. 6, 1938  
 Date shot Sept. 8, 1938 Depth of shot 1982-2002  
 Open Flow 5 /10ths Water in 2 Inch  
 /10ths Merc. in Inch  
 Volume 105.742 Cu. Ft.  
 Rock Pressure 350 lbs. 24 hrs.  
 Oil lbs. 1st 24 hrs.  
 Fresh water 303 feet 404 feet  
 Salt water 853 feet 990 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	48'	48	Size of
8 3/4	140		Depth set 1541
6 3/4	1541		
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			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
Earth			0	10			
Sand			10	38			
Slate			38	75			
Sand			75	125			
Slate			125	275			
Sand			275	303			
Slate			303	400	Water		
Sand			400	475			
Slate			475	525			
Sand			525	600			
Slate			600	853			
Sand Salt			853	990			
Slate			990	995			
Sand			995	1040			
Slate			1040	1050			
Sand			1050	1080			
Red Rock			1080	1084			
Slate			1084	1104			
Lime			1104	1119			
Slate			1119	1149			
Lime			1149	1164			
Slate			1164	1169			
Lime			1169	1190			
Pencil			1190	1195			
Big Lime			1195	1389			
Big Injun			1389	1445	Gas		
Slat			1445	1455			
Sand			1455	1470			
Lime			1470	1480			
Sand			1480	1525			
Slate			1525	1535			



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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			1535	1555			offset well record
Slate & Shells			1555	1982			
Burea Grit			1982	2002			
Slate			2002	2027			

offset well record

RECEIVED  
 Office Of Oil and Gas  
 1237  
 JUN 26 2023  
 Owner  
 WV Department of  
 Environmental Protection  
 07/07/2023  
 Date July 10, 2023  
 APPROVED *Thermal Gas Co*  
 By *John T. Ellman*  
 (Title) Agent & Partner



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

offset well record

NOTICE OF INTENTION TO PLUG AND ABANDON WELL

(REQUIRED BY SECTION 8, ARTICLE 4, CHAPTER 22 OF THE CODE)

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

<u>NONE</u> Coal Operator or Coal Owner	<u>THERMAL GAS COMPANY</u> Name of Well Operator
<u>NONE</u> Address	<u>C/O A.R. McConnell, 225 Goshorn Street,</u> Charleston, W. Va. Complete Address
<u>NONE</u> Coal Operator or Coal Owner	<u>August 4,</u> 19 <u>52</u>
<u>NONE</u> Address	<u>WELL TO BE ABANDONED</u>
<u>T. M. Spoons and</u> Dorsey Moore Lease or Property Owner	<u>GRANT</u> District
<u>Milton, W. Va.</u> Address	<u>CABELL</u> County
	Well No. <u>-1-</u>
	<u>O.C. Fortor</u> Farm

Inspector to be notified O. C. ALLEN - WAYNE - TIFL 89 J  
24 HOURS IN ADVANCE OF PLUGGING DATE

Gentlemen:—

The undersigned well operator is about to abandon the above described well and will commence the work of plugging and abandoning said well on the date inspector is notified (which date shall not be less than five days after the day on which this notice so mailed is received, or in due course should be received by the Department of Mines).

This notice is given 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 represented the undersigned will proceed on that date, or shortly thereafter, to plug and fill said well in the manner required by Section 10, Article 4, Chapter 22 of the Code and given in detail on the reverse side of this notice, in "Work Order."

This notice is being mailed by registered mail to each of you at the above addresses on the above date.

Very truly yours, THERMAL GAS COMPANY

BY John F. Ellison  
Well Operator



NOTE: Upon the abandonment of any wells drilled prior to June 1, 1929 a plat prepared by a registered engineer, showing the district and county in which the tract of land is located, the name and acreage of same, the names of the owners and adjacent tracts, and the location of the about to be abandoned well, determined by survey, and the courses and distances of such well from two permanent prints or landmarks on said tract, shall be submitted with this notice.

NOTE: In case plugging is not commenced within four months from the above date, this permit shall expire and be of no further force or effect.

(over)

Permit Number 315

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Office Of Oil and Gas  
JUN 26 2023  
WV Department of Environmental Protection  
07/07/2023

offset well record

PROPOSED MANNER OF PLUGGING AND FILLING WELL

(REQUIRED BY RULES AND REGULATIONS)

WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WORK ORDER

Well to be plugged and filled as follows: TOTAL DEPTH 2027'

Fill with Red Clay	2027' To	1982'	(Top Berea Grit)
Cement	1982' "	1972'	(5' Crushed Stone on Cement)
Fill with Red Clay	1972' "	1520'	
Cement	1620' "	1610'	(5' Crushed Stone on Cement)
Pull 7" OD Casing			
Fill with Red Clay	1610' "	1389'	(Top Big Injun)
Cement	1389' "	1379'	(5' Crushed Stone on Cement)
Fill With Red Clay	1379' "	1195'	(Top Big Line)
Cement	1195' "	1185'	(5' Crushed Stone on Cement)
Fill With Red Clay	1185' "	855'	(Top of Salt Sand)
Cement	855' "	815'	(5' Crushed Stone on Cement)
Bridge hole at	300'	-	
Cement	300'	290'	(5' Crushed Stone on Cement)
Continue with Red Clay to Surface.			

ERECT MONUMENT AS REQUIRED BY LAW.

THIS ALTERNATE WORK ORDER CAN BE FOLLOWED, IF DESIRED

Well shot from 1982' - 2002'

SET A PERMANENT BRIDGE AT 1962' - 20' above shot hole  
2 sacks neat cement and 5' crushed stone on bridge  
Fill with clay 100' and set plug of 10' neat cement and 5' crushed stone

SET A PERMANENT BRIDGE AT 1600' - 2 sacks neat cement and 5' crushed stone on bridge  
PULL 6-5/8" CASING (1541') AS BALANCE OF HOLE IS FILLED AND PLUGGED

fill with clay to 1225' - near top of Big Line  
Neat Cement 1225' - 1215' - 5' crushed stone on cement plug (scaling Big Injun and Big Line)

SET A PERMANENT BRIDGE AT 1000' - a point in the Salt Sands  
2 sacks neat cement and 5' crushed stone on bridge  
Fill with clay to 800'  
Neat Cement 800' - 790' and 5' crushed stone on cement - scaling off all salt water

SET A PERMANENT BRIDGE AT 300'  
2 sacks neat cement and 5' crushed stone on bridge and  
Fill with clay to surface  
To the Department of Mines  
Coal Owner or Operator, Erect marker such as is described in Rule 18, 1931 Regulation  
Lease or Property Owner.

Gentlemen:

This "work order" is submitted for your approval and concurrence and unless notified of your disapproval or non-concurrence, the undersigned will proceed with the plugging and filling of said well in the above described manner on the date stated in the notice of intention to plug and abandon the said well on opposite side of this sheet.

Very truly yours, THERMAL GAS COMPANY

BY: *John F. ...*  
Well Operator.

No objections have been filed by the coal owner or coal operator, or any available adjacent lease or property owners or interposed by the Department of Mines to the manner herein described for the plugging and filling of the well above mentioned. Therefore, the same is hereby approved this

5th day of AUGUST, 1952, 19\_\_

DEPARTMENT OF MINES  
Oil and Gas Division

By: *C. ...*

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Office Of Oil and Gas

JUN 26 2023

NOTE: This "work order" shall be filed in triplicate, one copy for the files of the Department of Mines, one to be approved or corrected and returned to the well operator as his authority for plugging said well; and one to the WV Department of Environmental Protection the well inspector.

07/07/2023



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

*o p set well record*

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE OFFICES.

<u>None</u> COAL OPERATOR OR OWNER	<u>THERMAL GAS COMPANY</u> NAME OF WELL OPERATOR
<u>None</u> ADDRESS	<u>C/O A.R. McConnell</u> 225 Goshorn St., Charleston, W.Va.
<u>None</u> COAL OPERATOR OR OWNER	<u>OCTOBER 17, 1952</u> WELL AND LOCATION
<u>None</u> ADDRESS	<u>Grant</u> District
<u>Dersey Moore</u> LEASE OR PROPERTY OWNER	<u>Cabell</u> County
<u>Milton, W.Va.</u> ADDRESS	<u>Well No. 1</u>
	<u>O.C. Porter</u> Farm
<u>STATE INSPECTOR SUPERVISING PLUGGING: O.C. Allen</u>	

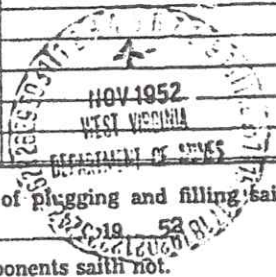
AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Kanawha } ss:

A.R. McConnell and Fred Smith  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by THERMAL GAS COMPANY, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 8th day of August, 1952, and that the well was plugged and filled in the following manner:

SAYD OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CAGING	
			CSG PULLED	CSG LEFT IN
FORMATION	TOTAL DEPTH OF WELL 2027'	SIZE & KIND		
Filled with red clay Cement	2028' To 1982'	(Top of Berea Sand)		
Filled with red clay Cement	1982' " 1972'	(5' Crushed Stone on Cement)		
Filled with red clay Cement	1972' " 1620'	(5' Crushed Stone on Cement)		
Pulled all of 7" OD casing except 300' & 7" which was left in Hole.	1620' " 1110'	(5' Crushed Stone on Cement)		
Filled with red clay Cement	1610' To 1389'	(Top of Big Injun)		
Filled with red clay Cement	1389' " 1378'	(5' Crushed Stone on Cement)		
Filled with red clay Cement	1379' " 1195'	(Top of Big Lime)		
Filled with red clay Cement	1195' " 1185'	(5' Crushed Stone on Cement)		
Filled with red clay Cement	1185' " 855'	(Top of Salt Sand)		
Filled with red clay Cement	855' " 843'	(5' Crushed Stone on Cement)		
Fert. ment bridge at	300'			
Curve	300' " 290'	(5' Crushed Stone on Cement)		
Filled with red clay	290' " Surface			
COAL SEAMS	DESCRIPTION OF MONUMENT			
(NAME)	Joint of 10" Casing Cemented in Hole			
(NAME)	Bearing following legend. O.C. Porter			
(NAME)	# 1 - THERMAL GAS COMPANY 9/5/52			
(NAME)				



and that the work of plugging and filling said well was completed on the 5th day of September  
And further deponents saith not.

Sworn to and subscribed before me this 1st day of July, 1952

My commission expires: July 15 - 1956

A.R. McConnell  
Fred Smith  
O.C. Allen

RECEIVED  
Notary Public Office Of Oil and Gas  
Permit No. 2124

JUN 26 2023



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Office Of Oil and Gas  
JUN 26 2023  
WV Department of  
Environmental Protection

Feb 7, 2023, 9:30 AM

07/07/2023

WELL API # 47-011-01014  
Patterson # 1  
PLUGGING WORK ORDER

The work order for the manner of plugging this well is as follows:

*offset well records used*

1. Notify inspector specialist, Allen Flowers @ (304) 552-8308. Email address is [Allen.D.Flowers@wv.gov](mailto:Allen.D.Flowers@wv.gov) , **Notification is required 24 hrs prior to commencing plugging operations.**
2. Move in and rig up to existing 6-5/8" inch casing.
3. TIH pull all 2" tubing and packer if found.
4. TIH check TD @ or below 1550'. If TD cannot be reached begin cleaning out hole to approved depth/TD by inspector.
5. Once TD has be reached and approved by inspector a bond log will be ran inside the 6-5/8" casing to determine cement bond location and free points. Any casing found with out cement in the annulus that cannot be retrieved must be perforated at all required locations.
6. TIH to TD @ 1550' with tubing, spot 6% gel followed by cement from 1550' to 1300'. TOH, WOC tag top of plug. Add cement if needed.
7. TIH and free point the 6-5/8s casing, If casing cannot be removed Perforate @ approved location by Inspector specialist.
8. TIH with tubing, spot gel from 1300' to 1050' followed by cement plug from 1050' to 800'. TOH, WOC tag top of cement plug. Add cement if needed.
9. TIH with tubing, spot gel from 800' to 625' followed by cement plug from 625' to 525'. TOH, WOC tag top of cement plug. Add cement if needed.
12. TIH with tubing, spot gel from 525' to 450' followed by cement plug from 450' to 250. TOH, WOC tag top of cement plug. Add cement if needed.
13. TIH with tubing to 250' and pump cement to surface.
14. Rig down and install monument, reclaim site.

**NOTE.. Any casing found in the well with out cement In the annulus that Cannot be retrieved must be perforated and cemented at all saltwater, Freshwater, coal, gas, casing shoe and elevation points.**

15. **Class L cement will be used as a replacement for Class A cement during Supply chain interruptions.**

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Office Of Oil and Gas

JUN 26 2023

WV Department of  
Environmental Protection

07/07/2023

WW-4A  
Revised 6-07

1) Date: 6/19/2023  
2) Operator's Well Number  
PATTERSON # 1  
3) API Well No.: 47 - 011 - 01014

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

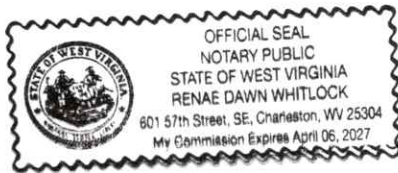
<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>JONORA R. PATTERSON</u>	Name <u>N/A</u>
Address <u>3135 TRACE FORK ROAD</u>	Address _____
<u>MILTON, WV 25541</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	(c) Coal Lessee with Declaration
<b>6) Inspector</b> <u>ALLEN FLOWERS</u>	Name <u>N/A</u>
Address <u>165 GRASSY LICK ROAD</u>	Address _____
<u>LIBERTY, WV 25124</u>	_____
Telephone <u>(304) 552-8308</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 WV DEP PAID PLUGGING CONTRACT  
 By: *Jason Harmon*  
 Its: \_\_\_\_\_  
 Address 601 57TH STREET S E  
CHARLESTON, WV 25304  
 Telephone (304) 926-0499 EX 41100

Subscribed and sworn before me this 27th day of June 2023  
*Renae Dawn Whitlock* Notary Public  
 My Commission Expires April 6, 2027

**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 its regulatory duties. Your personal information may be disclosed to other State agencies or third parties in order to perform its 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](mailto:depprivacyofficer@wv.gov).

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JUN 26 2023  
WV Department of  
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07/07/2023



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.

**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.

**RECEIVED**  
Office Of Oil and Gas

JUN 26 2023

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
07/16/2023

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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WW-9  
(5/16)

API Number 47 - 011 - 01014  
Operator's Well No. PATTERSON # 1

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name WV DEP PAID PLUGGING CONTRACT OP Code \_\_\_\_\_

Watershed (HUC 10) TRACE CREEK/MUD RIVER Quadrangle WEST HAMLIN

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: N/A

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number UNKNOWN AT THIS TIME )
- 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

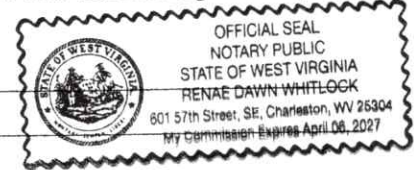
-Landfill or offsite name/permit number? UNKNOWN AT THIS TIME

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 *Jason Harmon*  
Company Official (Typed Name) JASON HARMON  
Company Official Title DEPUTY CHIEF



Subscribed and sworn before me this 27th day of June, 2008

*Renae Dawn Whitlock* Notary Public

My commission expires April 08, 2027

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Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH N/A

Lime 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10 - 10 - 20

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type

lbs/acre

N/A

FESCUE

30

CONTRACTOR MIX

10

**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.

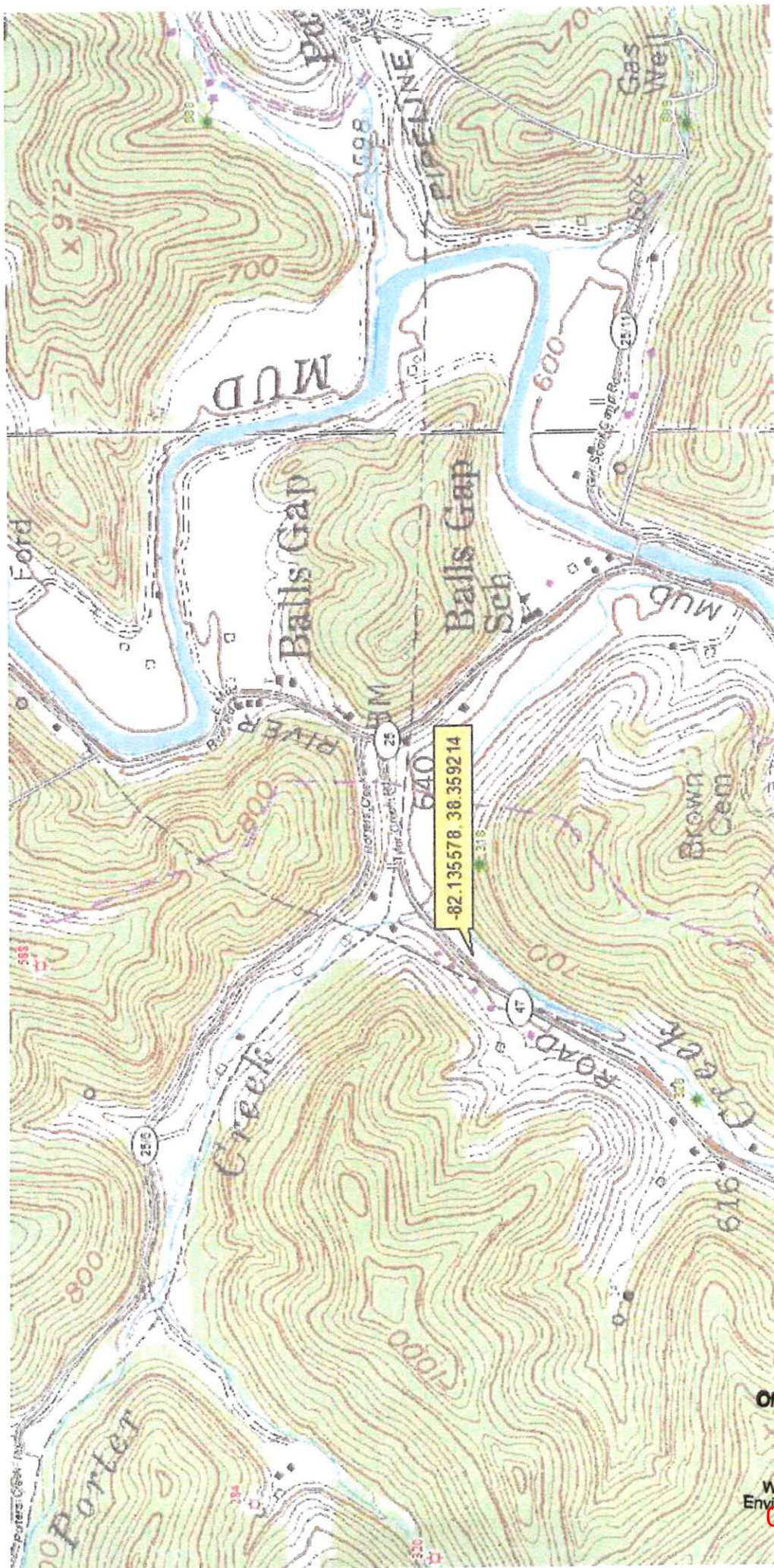
Plan Approved by: ALLEN FLOWERS

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: INSPECTOR Date: 6/19/2023

Field Reviewed?  Yes  No

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**Well Name - Patterson # 1**

**API # 47 - 011 - 01014**

**I. SPECIAL PROVISIONS**

**1.0 Location/Site Description**

Located at 3145 Trace Creek Road, Milton WV 25541, Cabell County

The GPS location is as follows: 38.359214, -82.135578

Coordinates, Decimal Degrees

**Directions to site:**

**From the Charleston Area:**

Take I-64 W to Milton exit 28. Turn left on John Morris Rd and continue 0.4 mile. Turn left on US-Rte 60 E and continue 1.3 miles. Turn right on Morris Memorial Rd and continue 0.8 mile, stay right on James River Turnpike Rd and continue 0.2 mile. Turn left on Co Rd 25/Balls Gap/E Mud River Rd and continue 5.4 miles. Turn right on Trace Creek Rd and continue 0.3 mile to well site on the left in field.

**From the Huntington Area:**

Take I-64 E to Milton exit 28. Turn right on John Morris Rd and continue 0.4 mile. Turn left on US-Rte 60 E and continue 1.3 miles. Turn right on Morris Memorial Rd and continue 0.8 mile, stay right on James River Turnpike Rd and continue 0.2 mile. Turn left on Co Rd 25/Balls Gap/E Mud River Rd and continue 5.4 miles. Turn right on Trace Creek Rd and continue 0.3 mile to well site on the left in field.

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

API: 47 - 011 - 01014 WELL NO.: PATTERSON # 1  
FARM NAME: JONORA R. PATTERSON  
RESPONSIBLE PARTY NAME: WV DEP PAID PLUGGING CONTRACT  
COUNTY: CABELL - 011 DISTRICT: GRANT  
QUADRANGLE: WEST HAMLIN  
SURFACE OWNER: JONORA R. PATTERSON  
ROYALTY OWNER: O.C. PORTER  
UTM GPS NORTHING: 4246281.98  
UTM GPS EASTING: 400786.06 GPS ELEVATION: 572'

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

INSPECTOR

Title

6/19/2023

Date JUN 26 2023

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**SURFACE OWNER WAIVER**

Operator's Well  
Number

47 - 011 - 01014

**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 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.

**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,

_____	Date _____	Name _____	<b>WV DEP PAID PLUGGING CONTRACT</b>
Signature		By _____	<b>RECEIVED</b>
		Its _____	<b>Office Of Oil and Gas</b>
			Date _____
			<b>JUN 26 2023</b>
		Signature _____	Date _____
			<b>WV Department of Environmental Protection</b>

WW-4B

API No.	<u>47 - 011 - 01014</u>
Farm Name	<u>PATTERSON JONORA</u>
Well No.	<u>PATTERSON # 1</u>

**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: 5/10/2023

N/A

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

Its \_\_\_\_\_

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NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL  
(REQUIRED BY SECTION 2, CHAPTER 22, CODE 1931)  
WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS SECTION

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

None  
COAL OPERATOR OR COAL OWNER

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

O. C. Porter  
OWNER OF MINERAL RIGHTS

Milton, West Virginia  
ADDRESS

Thermal Gas Company  
NAME OF WELL OPERATOR

P. O. Box 675, Charleston, West Va.  
CO. PTE. ADDRESS

June 10, 1938

PROPOSED LOCATION

Grant District

Cabell County

Well No. 1

O. C. Porter Farm

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 ~~right~~ of lease dated August 4th 1937, made by O. C. Porter, to Thermal Gas Company, and recorded on the 12th day of XX July 1937, in the office of the County Clerk for said County in

Book 132, page 514

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 all 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 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, Thermal Gas Company

BY J. B. Ballian  
WELL OPERATOR

609 1/2 Va. Street, P. O. Box 695.  
STREET

Charleston,  
CITY OR TOWN

West Virginia  
STATE



Address of Well Operator

\*Section 2 . . . . . 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 notice and 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.

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11/10/2016

PLUGGING PERMIT CHECKLIST

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

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## plugging permit issued 4701101014

1 message

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

Fri, Jul 7, 2023 at 1:15 PM

To: Allen D Flowers <allen.d.flowers@wv.gov>, Henry J Harmon <henry.j.harmon@wv.gov>, Brian Warden <brian.warden@wv.gov>, irv@cabellassessor.com

To whom it may concern, a plugging permit has been issued for 4701101014.

James Kennedy

WVDEP OOG

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 **4701101014.pdf**  
3373K

07/07/2023