west virginia department of environmental protection

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

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

Wednesday, March 4, 2026

WELL WORK PLUGGING PERMIT
Vertical Plugging

UNKNOWN - DEP PAID PLUGGING CONTRACT
601 57TH STREET

CHARLESTON, WV 25304

Re: Permit approval for 691
47-099-01427-00-00

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.

H. Jason Harmon
Acting Chief

Operator's Well Number:
Farm Name: FULLER, ARTHUR B.
U.S. WELL NUMBER: 47-099-01427-00-00
Vertical Plugging
Date Issued: 3/4/2026

03/06/2026

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. 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.
2. Well work activities shall not constitute a hazard to the safety of persons.
3. 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.

WW-4B
Rev. 2/01

1) Date December 29, 2025
2) Operator's Well No. 691
3) API Well No. 47-099-01427

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 X / Shallow ____

5) Location: Elevation 670 Watershed Whites Creek - Big Sandy River
District Butler County Wayne Quadrangle Prichard

6) Well Operator Unknown WVDEP Paid Plugging Contrac
Address 601 57th Street
Charleston, WV 25304

7) Designated Agent Jason Harmon
Address 601 57th Street
Charleston, WV 25304

8) Oil and Gas Inspector to be notified
Name Brian Warden
Address 49 Elk Creek Road
Delbarton, WV 25670

9) Plugging Contractor
Name Eagle Well Service
Address P.O. Box 1666
Salyersville, KY 41465

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

PLEASE SEE ATTACHED.

RECEIVED
Office of Oil and Gas

JAN 0 8 2026

WV Department of
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 [signature] Date 01 02 26

03/06/2026

Plugging Prognosis
API #: 45-099-01427
West Virginia, Wayne County

Casing Schedule

13" @ 31' – Cementing information unknown.
10" @ 360' – Cementing information unknown.
6-5/8" @ 3241' – 15 sacks.
TD @ 3609'

Original Completion: Coniferous Lime – 3527' - 3595' – Shot

Fresh Water: 85' – 92' and 300' – 310' (see original well record)
Saltwater: 815' and 850' (see original well record)
Gas Shows: 1193' – 1195', 3095' – 3100', 3360' – 3367', 3575' – 3581, and 3609' (See original well record)
Oil Shows: 1985' – 1992' and 3360 – 3367' (See original well record)
Coal: None Reported
Open Mine: None Reported
Elevation: 670.01'

1. Notify inspector, Brian Warden at 304-205-3229, 48 hours prior to commencing abandonment operations.
2. Blow down well.
3. POOH with tubing, RIH and confirm TD and fill depth.
4. Prep for cement. Notify inspector of tag depth.
5. Pump 6% Bentonite gel between all cement plugs.
    a. **NOTE**: Class A or Class L can be used for cement plugs.
6. Run bond log to determine accurate casing and cement depths. Attempt to free point all casing that is not cemented to surface, if not free perforate as needed.
7. Attempt to unseat packer at 3404', if unseated attempt to pull 6 5/8" if not shoot and proceed.
8. Set cement plug from 3609' (or TD) - 2780' to cover Corniferous Lime, Black Water, Big Six and casing shoe. (C. Lim 2900' – 3590', Black Water 3060' – 3070', Big Six 3592' – 3808')
9. Set 100' cement plug from 1869' – 1769' to isolate Berea Sand, Brown Shale, oil, gas, and (1889' – 3367')
10. Set cement plug from 960' – 685' to isolate Salt Sand, saltwater shows, Little Lime, Big Lime, Keener Sand, Injun Sand and gas show. (805' – 1370')
11. Set 370' cement plug from 370' – Surface. (Casing shoe; Freshwater 300' 310 and 85' – 92' – Surface)
12. Reclaim location and well road to WVDEP specifications and erect P&A well monument 30" above ground with well name, API and plug date.

**Will cover/isolate with cement all O&G formations – including salt, coal, freshwater.

JK+BW 3/4/26

03/06/2026

Form OG-10

B-1

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 23

RECEIVED
Office of Oil and Gas

JAN 08 2026

WV Department of
Environmental Protection

WELL RECORD

Quadrangle Louisa N. E.

Permit No. Way-1427

Oil or Gas Well Gas (KIND)

Company Commonwealth Gas Corporation
Address P. O. Box 1433, Charleston 25, W. Va.
Farm Arthur B. Fuller Acres 58.7
Location (waters) Back Fork of Gragston Creek
Well No. 691 Elev. 674.07'
District Butler County Wayne
The surface of tract is owned in fee by Arthur B. Fuller
Route No. 2 Address Prichard, W. Va.
Mineral rights are owned by Same
Address
Drilling commenced June 4, 1962
Drilling completed September 28, 1962
Date Shot 9-14&21-62 From 3565 To 3595
With 1st shot 400# gel. 2nd shot 2400# gel & 20 qts. 3527 3595
glycerin.
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 231,000 Cu. Ft.
Rock Pressure 465 lbs. 72 hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED
WELL FRACTURED
RESULT AFTER TREATMENT
ROCK PRESSURE AFTER TREATMENT
Fresh Water 85-92 300-310 Feet Salt Water 815 and 850 Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	30'10"	30'10"	Comb. W & A
10	359'10"	359'10"	Size of
8¼	1928'	None	7"X2"X20"
6⅝	3241'	3241'	Depth set 3404'
5 3/16			
3			Perf. top 3589' 2"
2	3627' 5"	3627' 5"	Perf. bottom 3607'2"
Liners Used 5"	107' 7"	107' 7"	Perf. top
	Top of liner at 3492'		Perf. bottom

CASING CEMENTED SIZE 7 No. Ft. 8-24-62 Date
15 bags behind the 7" casing
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	Remarks
Surface			0	30			
Sand			30	35			
Blue Mud			35	85			
Sand			85	92	Water	85-92	1 bailer per hr
Slate			92	145			
Broken sand			145	200			
Slate			200	245			
Sand			245	275			
Slate			275	304			
Sand			304	326	Water	300-310	3 bailers per hr
Slate shells			326	465			
Sand			465	485			
Slate			485	540			
Sand			540	558			
Blue slate			558	630			
Broken sand			630	660			
Slate			660	675			
Sand			675	705			
Slate			705	715			
Sand			715	740			
Slate & shells			740	805			
SALT SAND			805	925	Water	815	3-1/2 bailers per hr.
Slate & shells			925	1020			
SALT SAND			1020	1040	Water-	850	
Slate			1040	1070			
Sand			1070	1080			
LITTLE LIME			1080	1093			
Slate			1093	1097			
BIG LIME			1097	1245	Gas	1111 1193-1195	S.L.M. Show

(over)

B-2

Formation	Color	Hard or Soft	Top 23	Bottom	Oil, Gas or Water	Depth Found	Remarks
KEENER SAND			1245	1257			
INJUN SAND			1257	1370			
Slate & shells			1370	1625			
Hard shells			1625	1635			
Slate & shells			1635	1874			
Brown shale			1874	1889			
BEREA SAND			1889	1900			
Slate			1900	1914		1914	S.L.M.
Lime shell			1914	1920			
Slate & shells			1920	1972			
BROWN SHALE			1972	2092	Oil	1985-1992	Show
White slate			2092	2210			
BROWN SHALE			2210	2680			
Slate			2680	2860			
BROWN SHALE			2860	2900			
CORNIFEROUS LIME			2900	3590		2902	HalliburtonSLM
Slate			3590	3592	Black water	3060-3070	1/4 bailer/hr.
BIG SIX SAND			3592	3608	Gas	3095-3100	Smell
Slate			3608	3609	Gas	3360-3367	Show
					Gas& Bl.water	3360-3367	1/4 bailer/hr.
					Oil	3360-3367	
						3578	HalliburtonSLM
					Gas	3575-3578	189 M
					Gas	3578-3581	169 M
		TOTAL DEPTH		3609	Gas	3609	146 M - 28 hrs.

Shot 9-19-62 with 2300# gelatin from 3542 - 3595. 130 feet of tamp on top of shot. Set time bomb for 3 hrs. It did not go off. Waited 32 hrs. Put 300 feet of water in hole, started gravel out to 3537. Dumped 20 qts. of glycerine. Put 100# of gelatin with time bomb in it. Put another time bomb on top of it. Top of shot 3527. 175 feet of tamp on top of shot. Cleaned out to 3607'.

Shot second time 9-21-62 from 3527 to 3595 with 2400# gelatin. 20 qts. of glycerine. Used 2 time bombs. One set for 3 hrs and the other set for 2 hrs and 45 minutes.

56 hours after shot well was making 231,900.

Date October 31, 19 62

APPROVED COMMONWEALTH GAS CORPORATION, Owner

By W. D. Bowles

(Title) Land & Eng. Dept.

B-3

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. Way-1427

Oil or Gas Well (KIND) Gas

Company Commonwealth Gas Corp.

Address Charleston, W.Va.

Farm Arthur B. Fuller

Well No. 691

District Butler County Wayne

Drilling commenced

Drilling completed Total depth

Date shot Depth of shot

Initial open flow 169,000/10ths Water in Inch

Open flow after tubing /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			
16			Kind of Packer
13			
10			Size of
8¼	pipe record file.		
6⅝	given on previous		Depth set report.
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

Drillers' Names Sowards

Commonwealth Gas Corp. Cable Tools

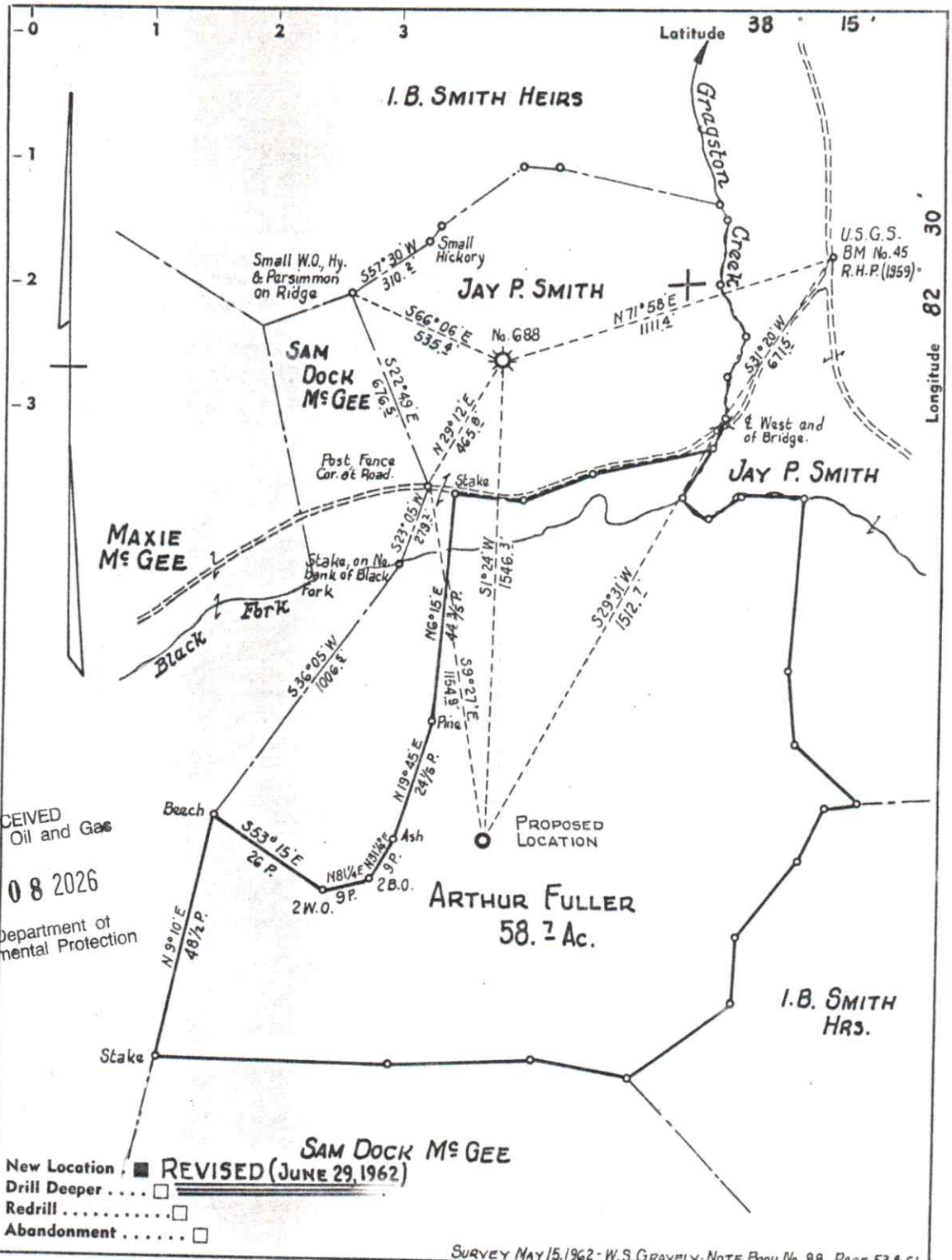
Remarks:

Still drilling at 3581'. Pay in bottom of Carniferous lime.

DATE

K E. Butcher

DISTRICT WELL INSPECTOR



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Office of Oil and Gas
JAN 08 2026
WV Department of Environmental Protection

New Location . ■ REVISED (JUNE 29, 1962)
Drill Deeper . . . . □
Redrill . . . . . □
Abandonment . . . . . □

SURVEY MAY 15, 1962 - W.S. GRAVELY - NOTE BOOK No. 88 PAGE 53 & 61

Company COMMONWEALTH GAS CORPORATION
Address P.O. BOX 1433 CHARLESTON, W. VA.
Farm ARTHUR B. FULLER
Tract Acres 58.7 Lease No. 1948
Well (Farm) No. 1 Serial No. 691
Elevation (Spirit Level) 674.07
Quadrangle LOUISA N.E.
County WAYNE District BUTLER
Engineer G.H. Hall
Engineer's Registration No. 2602
File No. Drawing No.
Date MAY 21, 1962. Scale 1" = 400'

ALLEN BLUEPRINT & SUPPLY CO.

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

WELL LOCATION MAP

10/27/2023

FILE NO. WAY-1427

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

03/06/2026

Eagle Well Service
P.O. Box 1666
Salyersville, KY 41465
(606) 349-4141

December 15, 2025

WV Dept. of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: 2022-13 Variance

To Whom It May Concern:

Please see attached Order 2022-13 Variance that allows the use of Class L cement in place of Class A cement for well plugging. Eagle Well Service wishes to have the option of using Class L cement should Class A not be available at the time of plugging.

If you have any questions or need any additional information, please feel free to contact me.

Thank you,

Brent Wright

Brent Wright
Eagle Well Service
(740) 502-6171
BW/db

RECEIVED
Office of Oil and Gas
JAN 08 2026
WV Department of
Environmental Protection

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.

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 monogramed 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

WW-4A
Revised 6-07

1) Date: December 29, 2025
2) Operator's Well Number
691

3) API Well No.: 47 - 099 - 01427

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Arthur Blair Fuller, Jr. and Trelma Lee Fuller
Address: 457 Black Fork Road
Prichard, WV 25555

(b) Name
Address

(c) Name
Address

6) Inspector: Brian E. Warden
Address: 49 Elk Creek Road
Delbarton, WV 25670
Telephone: 304-205-3229

5) (a) Coal Operator
Name
Address

(b) Coal Owner(s) with Declaration
Name
Address

Name
Address

(c) Coal Lessee with Declaration
Name
Address

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.

RECEIVED
Office of Oil and Gas
JAN 08 2026
WV Department of
Environmental Protection

Well Operator: Unknown WVDEP Paid Plugging Contract
By: Jason Harmon
Its: Agent
Address: 601 57th Street
Charleston, WV 25304
Telephone: 304-926-0499 x 41102

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
RENAE DAWN WHITLOCK
601 57th Street, SE, Charleston, WV 25304
My Commission Expires April 06, 2027

Subscribed and sworn before me this 9th day of January 26
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 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.

03/06/2026

RECEIVED
Office of Oil and Gas

JAN 08 2026

WV Department of
Environmental Protection

9589 0710 5270 2650 4623 34

U.S. Postal Service™
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Domestic Mail Only

For delivery information, visit our website at *www.usps.com*.

Prichard, WV 25555 OFFICIAL USE

Certified Mail Fee	$5.30	0071 04
Extra Services & Fees (check box, add fee as appropriate)	$4.40	
☐ Return Receipt (hardcopy)	$0.00	
☐ Return Receipt (electronic)	$0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$0.00	
☐ Adult Signature Required	$0.00	
☐ Adult Signature Restricted Delivery	$	
Postage	$2.72	
Total Postage and Fees	$12.42	01/06/2026

Sent To: Arthur: Thelma Fuller 47-9901427
Street and Apt. No., or PO Box No.: 451 Black Fork Rd.
City, State, ZIP+4®: Prichard WV 25555

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

03/06/2026

SURFACE OWNER WAIVER

Operator's Well Number 691

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

RECEIVED
Office of Oil and Gas
JAN 08 2026
WV Department of
Environmental Protection

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.

_____ Date _____
Signature

FOR EXECUTION BY A CORPORATION,

Name _____
By _____
Its _____ Date _____
Signature Date

03/06/2026

WW-4B

API No. 47-099-01427
Farm Name Fuller
Well No. 691

RECEIVED
Office of Oil and Gas
JAN 08 2026
WV Department of
Environmental Protection

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 then 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 _____

03/06/2026

WW-9
(5/16)

API Number 47 - 099 - 01427
Operator's Well No. 691

RECEIVED
Office of Oil and Gas
JAN 08 2026
WV Department of
Environmental Protection

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

Operator Name Unknown WVDEP Paid Plugging Contract OP Code _____

Watershed (HUC 10) Whites Creek - Big Sandy River Quadrangle Prichard

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: _____

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 _____)
_____ Reuse (at API Number _____)
■ Off Site Disposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____

Will closed loop systembe used? If so, describe: Yes, tank return.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Freshwater

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings expected.

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated 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

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
RENAE DAWN WHITLOCK
601 57th Street, SE, Charleston, WV 25304
My Commission Expires April 06, 2027

Subscribed and sworn before me this 9th day of January, 2026

Notary Public

My commission expires April 6, 2027

03/06/2026

Form WW-9

Operator's Well No. 691

Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH ____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20

Fertilizer amount 500 lbs/acre

Mulch Hay/Straw Tons/acre

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JAN 08 2026

WV Department of
Environmental Protection

Seed Mixtures

Temporary

Seed Type	lbs/acre
Orchard Grass	12
Landino Clover	3
Timothy	10

Permanent

Seed Type	lbs/acre
Orchard Grass	12
Landino Clover	3
Timothy	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: [signature]

Comments: Return to DEP Standard

Title: Inspector

Date: 01 07 26

Field Reviewed? (____) Yes (X) No

03/06/2026

WW-9- GPP
Rev. 5/16

Page _____ of _____
API Number 47 - 099 - 01427
Operator's Well No. 691

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

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JAN 08 2026
WV Department of
Environmental Protection

Operator Name: Unknown WVDEP Paid Plugging Contract
Watershed (HUC 10): Whites Creek - Big Sandy River Quad: Prichard
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A - no discharge of fluids.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Closed loop system, all returns will be taken in tanks and hauled to WVDEP approved facility.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

N/A

4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

03/06/2026

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

Plugging contractor will not use any waste material for deicing or fill material on property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

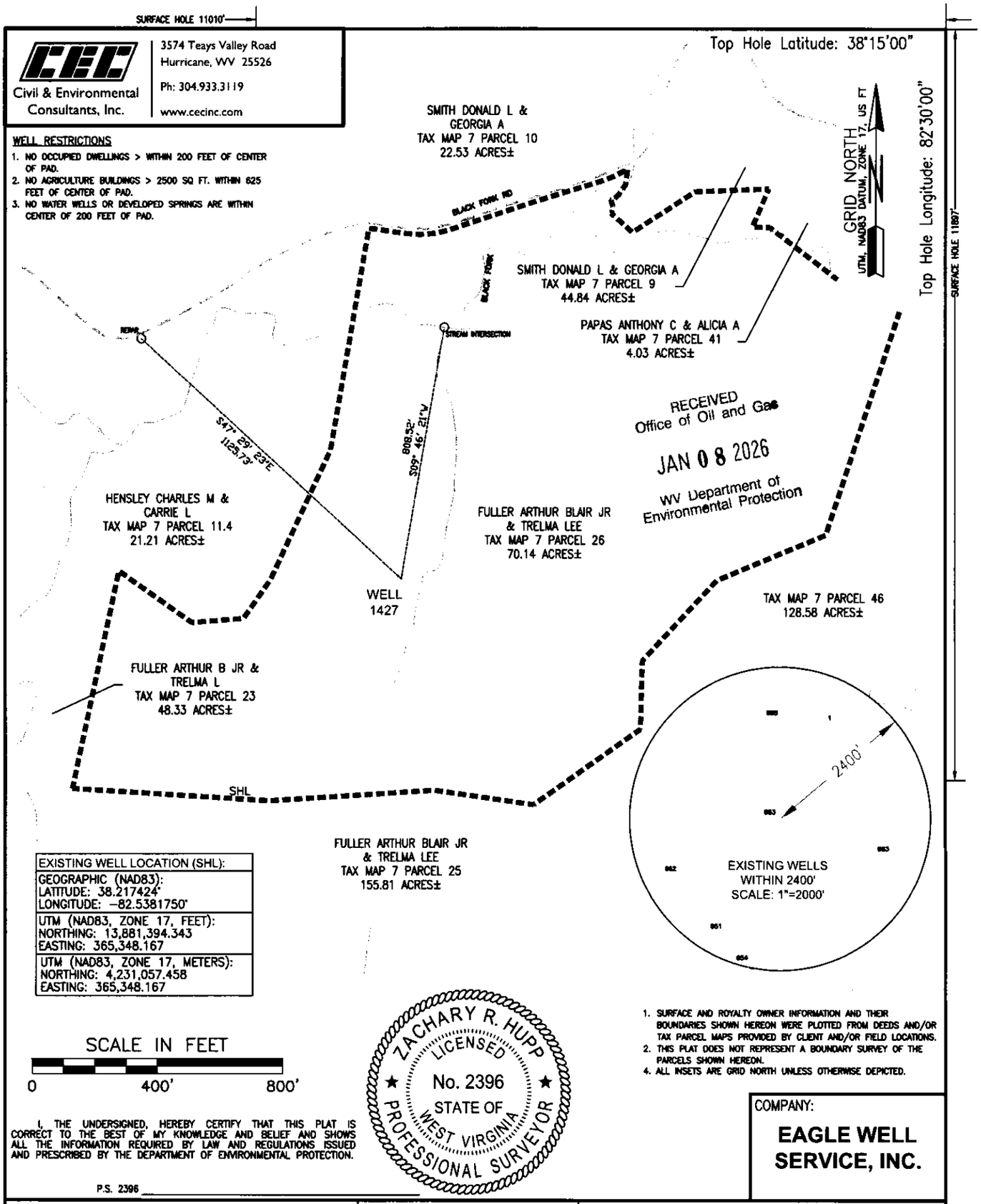
N/A - See section 2

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Daily inspections of equipment will be performed.

Signature: _____

Date: _____



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Office of Oil and Gas
JAN 08 2026
WV Department of Environmental Protection

Civil & Environmental Consultants, Inc.
3574 Teays Valley Road
Hurricane, WV 25526
Ph: 304.933.3119
www.cecinc.com

WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > WITHIN 200 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN CENTER OF 200 FEET OF PAD.

EXISTING WELL LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 38.217424° LONGITUDE: -82.5381750°
UTM (NAD83, ZONE 17, FEET): NORTHING: 13,881,394.343 EASTING: 365,348.167
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,231,057.458 EASTING: 365,348.167

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

ZACHARY R. HUPP LICENSED No. 2396 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

P.S. 2396

COMPANY:
EAGLE WELL SERVICE, INC.

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

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: 691

API WELL #: 47 (STATE) 099 (COUNTY) 01427 (PERMIT)

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☐ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒

WATERSHED: WHITES CREEK-BIG SANDY RIVER ELEVATION: 670.01

DISTRICT: BUTLER COUNTY: WAYNE QUADRANGLE: PRICHARD

SURFACE OWNER: FULLER ARTHUR BLAIR JR & TRELMA LEE ACREAGE: 70.14±

OIL & GAS ROYALTY OWNER: N/A ACREAGE: N/A

DRILL ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐

CONVERT ☐ PLUG & ABANDON ☒ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY)

TARGET FORMATION: N/A ESTIMATED DEPTH: TVD TMD

03/06/2026

WELL OPERATOR: UNKNOWN WVDEP PAID PLUGGING CONTRACT DESIGNATED AGENT: JASON HARMON

ADDRESS: 601 57TH STREET ADDRESS: 601 57TH STREET

CITY: CHARLESTON STATE: WV ZIP CODE: 25304 (WVDEP) CITY: CHARLESTON STATE: WV ZIP CODE: 25304

LEGEND:

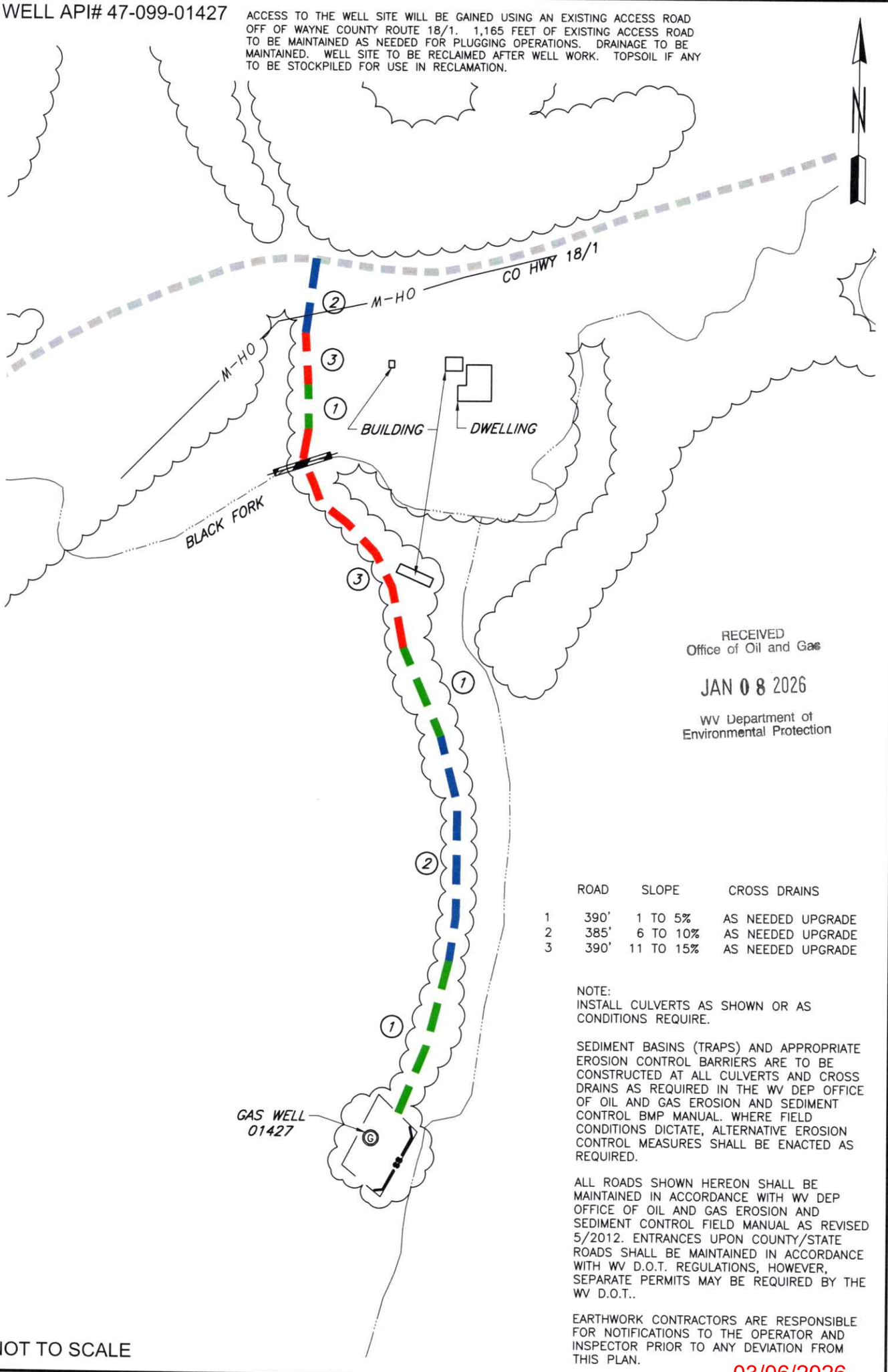
ACTIVE PRODUCING WELLHEAD
ABANDONED WELLHEAD
LEASE BOUNDARY
ADJOINER LINE
EXISTING ROAD
EXISTING STREAM

REVISIONS:	DATE: 10-25-2025
	356-112
	DRAWN BY: S.C.S.
	SCALE: 1" = 400'
	DRAWING NO: 356-112
	WELL LOCATION PLAT

P:\350-000\356-112\-REFERENCES\WELL PLUGGING PLATS\DECEMBER\356112-SW01-WP-099-1427.DWG
TUESDAY DECEMBER 16 2025 02:54PM

WELL API# 47-099-01427

ACCESS TO THE WELL SITE WILL BE GAINED USING AN EXISTING ACCESS ROAD OFF OF WAYNE COUNTY ROUTE 18/1. 1,165 FEET OF EXISTING ACCESS ROAD TO BE MAINTAINED AS NEEDED FOR PLUGGING OPERATIONS. DRAINAGE TO BE MAINTAINED. WELL SITE TO BE RECLAIMED AFTER WELL WORK. TOPSOIL IF ANY TO BE STOCKPILED FOR USE IN RECLAMATION.



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JAN 08 2026

WV Department of
Environmental Protection

	ROAD	SLOPE	CROSS DRAINS
1	390'	1 TO 5%	AS NEEDED UPGRADE
2	385'	6 TO 10%	AS NEEDED UPGRADE
3	390'	11 TO 15%	AS NEEDED UPGRADE

NOTE:
INSTALL CULVERTS AS SHOWN OR AS CONDITIONS REQUIRE.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS AS REQUIRED IN THE WV DEP OFFICE OF OIL AND GAS EROSION AND SEDIMENT CONTROL BMP MANUAL. WHERE FIELD CONDITIONS DICTATE, ALTERNATIVE EROSION CONTROL MEASURES SHALL BE ENACTED AS REQUIRED.

ALL ROADS SHOWN HEREON SHALL BE MAINTAINED IN ACCORDANCE WITH WV DEP OFFICE OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL AS REVISED 5/2012. ENTRANCES UPON COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS, HOWEVER, SEPARATE PERMITS MAY BE REQUIRED BY THE WV D.O.T..

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATIONS TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

NOT TO SCALE

03/06/2026

LEGEND:
- EXISTING WELLHEAD
- DIVERSION DITCH
- EXISTING POWER POLE
- ACCESS
- SILT FENCE
- OVERHEAD ELECTRIC
- STREAM
- TREE LINE
- DRAINAGE
- LANDING PAD
- PROPOSED CULVERT

NOTES

1. NO PIT WILL BE CONSTRUCTED. TANKS WILL BE USED FOR FLUIDS.

WELL OPERATOR: UNKNOWN-DEP PAID PLUGGING CONTRACT WVDEP	WELL (FARM) NAME: FULLER, ARTHUR B.	WELL # 691
ADDRESS: 601 57TH STREET, SE CHARLESTON, WV 25304	COUNTY – CODE WAYNE – 050	DISTRICT; BUTLER
SURFACE OWNER: ARTHUR BLAIR JR & TRELMA LEE FULLER	USGS 7 1/2 QUADRANGLE MAP NAME PRICHARD, WV	

P:\350-000\356-112\-REFERENCES\REC\356112-SV01-01427-REC.DWG

47-09901427

H2S Contingency Plan

03/06/2026

Table of Contents

Introduction

H2S is a toxic, poisonous gas that could cause death or injury. The objective of this contingency plan is to provide an organized plan of action for alerting and protecting NLE employees, contractors, and the public from H2S exposure in the event a potentially hazardous

volume is accidentally released into the atmosphere. This plan should be activated immediately if any such release occurs. The Rig Manager is responsible for initiating and carrying out the plan.

Individual Responsibilities

It is the responsibility of all personnel on the location to familiarize themselves with the procedures outlined in this contingency plan.

A. All Personnel:
   - Responsible for his assigned safety equipment.
   - Responsible for familiarizing himself with the location of all safety equipment.
   - Responsible for reporting any indications of H2S to those in the area and to a foreman.

B. Rig Manager:
   - Responsible for thoroughly understanding and seeing that all aspects of this contingency plan are enforced.

C. Rig Foreman:
   - Responsible for thoroughly understanding and seeing that all aspects of this contingency plan are followed.
   - Responsible for implementing all phases of this contingency plan.
   - Responsible for keeping a minimum of personnel on the location during expected hazardous operations.
   - Responsible for coordinating all well site operations and communications if an emergency condition develops.
   - Responsible for ensuring that all visitors receive an H2S Safety Orientation. A visitor's log will be maintained as well as a list of all personnel on the location after operations have progressed to the suspected H2S formation.

Location Layout

A. The location of at least two pre-determined safe areas to assemble in the event of an emergency. These locations should be located 180 degrees to one another, and in opposite direction of the prevailing winds.
B. The location has two means of entry and exit with at least one constructed in a way that they are readily accessible for emergency response vehicles. When this is not possible steps will be taken to meet emergency vehicles at the entrance of the well road.
C. H2S portable area monitor with two (2) heads. One located at the bell nipple/Well head/rig Operator station/Rig Floor, a second located in the work zone and downwind of

the well head where hydrogen sulfide may accumulate. Indicate here any other additional H2S detector locations for this well:

Type: Single Gas H2S Monitor Location: On Each Person on site
Type: 4 Gas Meter Location: On the Rig Operators Stand

D. The location and type of all air masks. Self-contained breathing apparatus for use by rig personnel will be kept in the following location(s):

Type: 1 -10 Min. Self-Rescue Unit Location: Rig Floor
Type: 3-30 Min. SCBA Rescue Units Location: H2S Trailer
Type: 2-10 Min. Self-Rescue Units (optional) Location: Briefing Area #1
Type: 2-10 Min. Self-Rescue Units (optional) Location: Briefing Area #2
Type: 1-10 Min. Self-Rescue Unit Location: Cement Pump Unit

If a cascade system is utilized, indicate the locations(s).:

Type: Location:
Type: Location:

E. The location of windsocks or streamers. The wind direction indicators for this well will be located at:

Type: Windsock Location: Briefing Area #1
Type: Windsock Location: Briefing Area #2
Type: Windsock Location: Pits/Flow Back
Type: Windsock Location: Rig Floor

F. The location of any other safety equipment used, such as flare guns or bug blowers:

Type: Intrinsically Safe Fan Location: Rig Operator Stand
Type: Intrinsically Safe Fan Location: Cement Operator Stand

F. The location of all telephones and/or means of communication are as follows:

Type: Location:
Type: Location:

G. Warning Signs:

1. "NO SMOKING" signs should be strategically located around the rig and rig location. The following locations are appropriate:
   a. Doghouse
   b. Rig Floor
   c. Substructure
   d. Lower landing of all stairs leading to rig floor.
   e. Flow Back pits
   f. Well Entrance
2. "DANGER H2S May Be Present" "NOTICE H2S Gas Air Monitoring Required Beyond this point" signs should also be strategically located at the well site around the rig and rig location. The following locations are appropriate:
   a. All entrances leading to the location.
   b. Lower landing of all stairs leading to the rig floor.
   c. All areas around substructure, including mud pits and shale shaker.
   d. Various points along the perimeter of the radius of exposure

NOTE: All warning signs should be appropriate in color and of readable size at a reasonable distance.

H. Fire Protection Equipment:

1. Fire protection Equipment (Portable Fire Extinguishers) should be strategically located around the rig and rig location.

I. First Aid Equipment

1. First Aid Equipment should be located in a centralized and clearly marked area such as the doghouse, Foreman's pick up, or company man's trailer.

Operating Procedures

The following operating procedures will be utilized for plugging operations in areas with H2S.

A. A Daily check must be completed by the Rig Manager and Foreman prior to work each day. At a minimum, the following items should be checked.
   a. The worksite for the presence of hydrogen sulfide.
   b. Wind direction indicators. The results of this check may require redesignating the safe briefing area(s).
   c. H2S Warning Signage/Colored flagging
   d. Muster Points
   e. Fan placement with power Sources
   f. Personal Self Rescue Packs
   g. Hydrogen sulfide monitoring or detection equipment and alarm (Function Test)
   h. Placement of personal protective breathing equipment
   i. Placement of Fire protection equipment
   j. Appropriate first aid equipment
   k. Truck & Equipment Positioning
   l. Entry and Exit Routes
   m. Closest available cell service
   n. Emergency Response numbers

B. If the well has evidence of H2S being present, or the potential to be present, special precautionary steps must be implemented to isolate and/or eliminate the exposure to H2S before starting work. As a minimum, the following must be utilized
   a. H2S Permit completed before moving equipment or personnel onto location
   b. Brine water and scavenger pumped into the well prior to rig equipment moving onto location. The levels should be that which ensures the well is "static"
   c. Strippers for cleaning the pipe as it is coming out of the hole.
   d. JU Head and appropriately sized rubber packing.
   e. A "T" above the JU Head that is appropriately pressure rated that will allow the flow back fluids to be contained and directed to the Flow back tank/box.
      1. The "T" must be equipped with two working isolation valves to isolate the cement equipment and prevent circulation back to the cement

equipment. (See Appendix VII in the H2S SOP for the diagram of recommended setup)

1. At **NO TIME** may fluids be circulated back to the cement equipment.
2. Wash Up of cement equipment must take place from a separate source and may NOT come from the flow back box or tank on an H2S location.

f. Closed flow box or tank.
   1. Must be located a minimum of 100' from the well and located down wind of the predominant wind when possible.
   2. Must have a vent stack that ensures venting is adequately out and away from any personnel.
   3. Must be equipped with a windsock.
   4. Must be treated with Scavenger or Biocide (Whichever is applicable) when necessary to reduce and/or eliminate any potential H2S that may be in flow back fluids.
   5. Must NOT be used to wash up cement pumping equipment at any time.

g. Flow back fluids on a H2S location are NOT permitted to be pumped into an open top container, earthen pit, half rounds, or any "open system".

h. Fans (2) with power source

i. H2S Warning Signage

j. H2S Flags (Green, Yellow, Red)

k. Muster Point Signs (2)

l. Windsocks/Wind indicators

m. Self-Rescue Packs (3)

n. 3rd Party or H2S Rescue Team onsite (if H2S levels are above the action level)

C. Upon evidence that ambient H2S concentrations have reached 10 PPM or higher, operations will stop, and all non-essential personnel will be evacuated to pre-determined safe areas. See H2S Standard Operating Procedures.
   a. Only Trained and essential personnel will remain to close the well.
   b. Once closed the essential personnel will leave location to reset, contact appropriate personnel, and develop a plan.
   c. If PPM levels increase to 20 PPM or higher to open atmosphere or well cannot be closed in within 10 minutes (20PPM ceiling limit) then **ALL** personnel will immediately evacuate the location to the designated meeting area. See H2S SOP (Standard Operating Procedures). Additional meetings, precautions, and steps will be implemented before work may resume. See the associated section of the SOP Operating Procedures for guidance.

D. When a well is reading 10+ PPM to the open atmosphere or 20PPM+ to a closed or contained system trained Emergency Response Personnel will be contacted and must be on site with adequate rescue equipment before personnel may enter or re-enter the well site.

a. See Scavenger Pumping Procedures, Section 2.9 of H2S Standard Operating Procedure for reducing the H2S levels below 10 PPM to open atmosphere or 20PPM to a closed system.

E. Personnel remaining on the rig floor will continue to control the well until the situation indicates the area is safe to re-enter.
   a. Levels must remain below 10 PPM to the open atmosphere or 20PPM to a closed system for 8hours before Non-Essential Personnel are permitted to re-enter the work area.

F. Special Operations
   a. Will be added later as necessary

Operating Conditions

Operating conditions are defined in three categories. A description of each of these conditions and the required action to take are given below.

A. CONDITION 1 - Normal Operating Conditions, Potential Danger, Operations Under Control

Characterized by:	Normal plugging operations and test operations in zones which contain or may contain H2S.
Warning Flag:	Green
Alarm:	None
Probable Occurrence:	No detectable gas present at surface but has potential for H2S.
General Action:	(1) Know location of safety equipment. (2) Check safety equipment for proper function. Keep it available. (3) Be alert for a condition change. (4) Follow instructions of the Rig Foreman.

B. CONDITION 2 - Potential to Moderate Danger to Life

Characterized by:	H2S gas present. Concentration less than 10 PPM to the open atmosphere but above 0PPM.
Warning Flag:	Yellow
Alarm:	Flashing light at 10 PPM H2S and audio alarms on horn at 10 PPM H2S.
Probable Occurrence:	(1) As drill gas. (2) As trip gas when circulating bottoms up. (3) When a core barrel is pulled. (4) When a well kick is circulated out. (5) Surface pressure, well flow or lost operations. (6) Equipment failure during testing operations

General Action:

(1) Follow instructions of foreman.
(2) Put on breathing equipment if directed, or conditions warrant it.
(3) Stay in "SAFE BRIEFING AREA" if instructed and not working to correct the problem.
(4) The Rig Foreman will initiate action to reduce the H2S concentration to zero.

C. CONDITION 3 – Moderate to Extreme Danger to Life

Characterized by: H2S present in concentrations at or above 10 PPM to the open atmosphere or 20PPM+ to a closed or contained system. Critical well operations or well control problems. In the extreme, loss of well control.

Warning Flag: Red

Alarm: Flashing light and audio alarm on horn at 10 PPM H2S.

Probable Occurrence:

(1) As drill gas.
(2) As trip gas when circulating bottoms up.
(3) When a core barrel is pulled.
(4) When a well kick is circulated out.
(5) Surface pressure, well flow or lost returns problems.
(6) Equipment failure during testing operations.

General Action:

(1) Put on breathing equipment. Move to "SAFE BRIEFING AREA" and remain there if not working to correct the problem.
(2) Follow instructions of Foreman or other applicable managers.
(3) The Rig Manager or Rig Foreman will initiate emergency action as provided in the contingency plan and as appropriate to the actual conditions. If testing operations are in progress the well will be shut in.
(4) The Rig Foreman will conduct any necessary operations with an absolute minimum of personnel. All personnel in the immediate area will wear a Self-Contained Breathing Apparatus. All other personnel will restrict their movements to those directed by the superintendent.
(5) If gas containing hydrogen sulfide is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide, which is poisonous.

Emergency Procedures

The procedures listed below apply to Plugging Operations. These are generalized procedures and variances can occur based on site specific conditions. The site specific Emergency Action Plan should also be taken into consideration and utilized.

A. If at any time during Condition 1, any person detects H2S, he will notify the Rig Foreman. All personnel should keep alert to the Rig Foreman's orders.

The Rig Foreman will:

1. Immediately begin to ascertain the cause or the source of the H2S and take steps to reduce the H2S concentration to zero.
2. Order non-essential personnel out of the potential danger area.
3. Order all personnel to check their safety equipment to see that it is working properly and in the proper location. Persons without Self Rescue Equipment or Self-Contained breathing equipment will not be allowed to work in a hazard area.
4. Notify the Rig Foreman of the condition and action taken.
5. Increase gas monitoring activities with portable Area H2S detectors and continue operations with caution.
6. Display the Yellow warning flag.

B. If the ambient air H2S concentration exceeds 10 PPM but Less than 20PPM the following steps **will** be taken:

1. Make your way across and upwind while avoiding low lying areas
2. Alert other affected personnel
3. Rig Foreman – prepare to shut the well in.
    b. Close well control device. If pumping operations are in progress, the well will be shut-in
4. Help anyone who may be affected by gas.
5. Non-Essential Personnel Evacuate quickly to the "SAFE BRIEFING AREA/MUSTER AREA" if instructed or conditions warrant.
6. Account for onsite personnel
7. Display the Red warning Flag.

C. In the event a potentially hazardous volume of H2S is released into the atmosphere, the following steps must be taken:

1. Put on Proper Breathing equipment.
2. Alert other affected personnel.
3. Remove all rig personnel from the danger area and assemble at a pre-determined safe area, preferably upwind from the well site.

4. Alert the Director of Plugging operations, public safety personnel, regulatory agencies, and the general public of the existence and location of an H2S release. See List of Emergency Telephone Numbers.
5. Assign personnel to block any public road (and access road to location) at the boundary of the area of exposure. Any unauthorized people within the area should be informed that an emergency exists and be ordered to leave immediately.
6. Request assistance from public safety personnel to control traffic and/or evacuate people from the threatened area.

D. If required action cannot be accomplished in time to prevent exposing operating personnel or the public to hazardous concentrations of hydrogen sulfide or sulfur dioxide, proceed to the following steps, as appropriate for the site-specific conditions.

1. Alert the public (Directly or through appropriate government agencies), who may be subjected to potentially harmful exposure levels.
2. Initiate evacuation procedures
3. Contact the first available designated Manager call list. Notify the Manager of circumstances and whether immediate assistance is needed. The Manager shall notify (or arrange for notification of) other Managers/Directors and other appropriate personnel (including public officials) on the notification list.
4. Make recommendations to public officials regarding blocking unauthorized access to the unsafe area and assist as appropriate.
5. Make recommendations to public officials regarding evacuating the public and assist as appropriate.
   b. Notify, as required, government agencies.
   c. Monitor the ambient air in the area of exposure (after following abatement measures) to determine when it is safe for re-entry.

DI. If explosive material exist on location then emergency response personnel must be made aware of the classifications, amounts, and locations prior to entering the work zone.

Training Program

All personnel associated with the plugging operations will receive training to ensure efficient and correct action in all situations. This training will be in the general areas of: (1) personnel safety, (2) rig operations, and (3) well control procedures.

A. Personnel Safety Training – All personnel shall have received H2S training in the following areas:
   - Hazards and characteristics of H2S.
   - Effect on metal components of the system.
   - Safety precautions.
   - Operation of safety equipment and life support systems.
   - Corrective action and procedures.

C. Rig & Plugging Operations – All rig & plugging related personnel shall have received training in the following areas:
   - Well control procedures.
   - Layout and operations of the well control equipment.

D. Service Company Personnel – All service personnel shall have been trained by their employers in the hazards and characteristics of H2S and the operation of safety equipment and life support systems.

E. Visitors – All first-time visitors to the location will be required to attend a site safety orientation. The Rig Foreman shall be responsible for this orientation, and he shall see that every visitor is logged in correctly.

F. Public – The public within the area of exposure shall be given an advance briefing by the Rig Manager. This briefing must include the following elements:
   - Hazards and characteristics of hydrogen sulfide. It is an extremely dangerous gas. It is normally detectable by its "rotten egg" odor, but odor is not a reliable means of detection because the sense of smell may be dulled or lost due to intake of the gas. It is colorless, transparent, and flammable. It is heavier than air and may accumulate in low places.
   - The necessity of an emergency action plan. Due to the danger of persons exposed to hydrogen sulfide and the need for expeditious action should an emergency occur, this action plan will be put into effect if or when a leak occurs.

   3. The location of hydrogen sulfide within the area of exposure at the drilling location.
   4. The way the public will be notified of an emergency is by telephone or in person.
   5. Steps to be taken in case of an emergency:
      a. Abandon danger area.
      b. Notify necessary agencies and request assistance for controlling traffic and evacuating people.

G. H2S Rescue Teams – Internal (DEC/NLE) H2S rescue teams will be developed at a later date. Additional training, equipment and program requirements will be developed prior to the implementation of this team. Until this team and program aspects are developed DEC/NLE will rely on 3rd parties specifically trained in H2S rescue for this coverage.

H2S PPM Reference Guide

Hydrogen Sulfide (H2S)	
Exposure Limits and Symptoms	
0.00011-0.00033	Typical background concentrations
0.01-1.5	Odor threshold (when rotten egg smell is first noticeable to some). Odor becomes more offensive at 3-5 ppm. Above 30 ppm, odor described as sweet or sickeningly sweet.
2 - 5	Prolonged exposure may cause nausea, tearing of the eyes, headaches or loss of sleep. Airway problems (bronchial constriction) in some asthma patients.
20	Possible fatigue, loss of appetite, headache, irritability, poor memory, dizziness.
50 - 100	Slight conjunctivitis ("gas eye") and respiratory tract irritation after 1 hour. May cause digestive upset and loss of appetite.
100	Coughing, eye irritation, loss of smell after 2-15 minutes (olfactory fatigue). Altered breathing, drowsiness after 15-30 minutes. Throat irritation after 1 hour. Gradual increase in severity of symptoms over several hours. Death may occur after 48 hours.
100 - 150	Loss of smell (olfactory fatigue or paralysis).
200 - 300	Marked conjunctivitis and respiratory tract irritation after 1 hour. Pulmonary edema may occur from prolonged exposure.
500 - 700	Staggering, collapse in 5 minutes. Serious damage to the eyes in 30 minutes. Death after 30-60 minutes.
700 - 1000	Rapid unconsciousness, "knockdown" or immediate collapse within 1 to 2 breaths, breathing stops, death within minutes.
1000 - 2000	Nearly instant death

H2S Flag Color Guide

Flag Color	Condition Class	Danger Level	PPM Level
WHITE	No Known or Potential Hazard		
GREEN	Condition 1	Normal Plugging Operations	0 PPM
YELLOW	Condition 2	Potential to Moderate Danger to life	0.1 – 9.9 PPM
RED	Condition 3	Moderate to Extreme Danger to life	10 + PPM (open atmosphere) --or-- 20+PPM (Closed System)

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H2S Emergency Response Trailer Checklist

Trailer Contents	Trailer Postings & Documents
Class 1 Div 1 Fans (Minimum 2)	Checklist and Inspection Sheet for all components of the trailer
Scavenger (Minimum 20 Gal)	Trailer Insurance & Registration
Self Rescue Packs (6)	H2S SOP (Standard Operating Procedure
SCBAs (4)	H2S Policy
8 Bottles of air for SCBAs	H2S Contingency Plan
Generator	Site Specific (ERP) Emergency Response Plan
Extra Fuel for Generator	Nearest Helipad Location
Extension Cords for Fans	Contacts for 3rd Party H2S Emergenct Response (3 Minimum)
First Aid Kit	H2S Pictogram Refence Guide on PPM Limits
Eyewash Station or Bottles	H2S Flag Color Refence Guide
AED (Optional)	Well Permit Packet
Wind Socks (Minimum 2)	
Red Danger Tape, Yellow Caution Tape	
Portable Area Ground Monitors (Minimum 2) with Siren and flashing light	
A Frame Signs with H2S Signage (Minimum 2)	
Sign in/out sheet for all site personnel and visitors	
Muster Point Signs (2) - (Muster Point #1 & #2)	
Sattelite Phone - Optional	
Case of Water	
Cooler of Ice (Weather/Temperature dependent)	

H2S (Hydrogen Sulfide) CharacteristicsSO2

Hydrogen Sulfide

Physical Data

Chemical Name: Hydrogen Sulfide CAS Number: 7783-06-4

Synonyms: Sulfureted hydrogen, hydro sulfuric acid, dihydrogen Sulfide

Chemical Family: Inorganic sulfide

Chemical Formula: H2S

Normal Physical State: Colorless gas, slightly heavier than air. Vapor density (specific gravity) at 59F (15C) and 1 atmosphere = 1.189.

Autoignition Temperature: 500F (260C)

Boiling Point: -76.4F (-60.2C)

Melting Point: -117.2F (-82.9C)

Flammable Limits: 4.3 - 46 percent vapor by volume in air.

Solubility: Soluble in water and oil; solubility decreases as the fluid temperature increases.

Combustibility: Burns with a blue flame to produce sulfur dioxide (SO2). Refer to Appendix B. Odor and Warning Properties: Hydrogen sulfide has an extremely unpleasant odor, characteristic of rotten eggs, and is easily detected at low concentrations; however, due to rapid onset of olfactory fatigue and paralysis (inability to smell), ODOR SHALL NOT BE USED AS A WARNING MEASURE.

Exposure Limits

The American Conference of Governmental Industrial Hygienists (ACGIH) recommends a Threshold Limit Value (TLV)" of 10 ppm (8-hour TWA) and a short-term exposure limit (STEL) of 15 ppm averaged over 15 minutes. (Action Level) Exposure at the STEL should not be repeated more than 4 times per day with at least 60 minutes between successive exposures in this range.

Hydrogen Sulfide

Physiological Effects

Inhalation at certain concentrations can lead to injury or death. The 300 ppm is considered by the ACGIH as Immediately Dangerous to Life and Health (IDLH). Hydrogen sulfide is an extremely toxic, flammable gas that may be encountered in the production of gas well gas, high sulfur content, crude oil, crude oil fractions, associated gas, and waters. Since hydrogen sulfide is heavier than air, it can collect in low places. It is colorless and has a foul, rotten-egg odor. In low concentrations, H2S sometimes can be detectable by its characteristic odor; however, smell cannot be relied on to forewarn of dangerous concentrations because exposure to high concentrations (greater than 100 ppm) of the gas rapidly paralyzes the sense of smell due to paralysis of the olfactory nerve. A longer exposure to lower concentrations has a similar desensitizing effect on the sense of smell. It should be well understood that the sense of smell will be rendered ineffective by hydrogen sulfide which can result in an individual failing to recognize the presence of dangerously high concentrations. Exposure to hydrogen sulfide causes

death by poisoning the respiratory system at the cellular level. Symptoms from repeated exposures to low concentrations usually disappear after not being exposed for a period. Repeated exposures to low concentrations that do not produce effects initially may eventually lead to irritation if the exposures are frequent.

Respiratory Protection

Respiratory protection shall be worn above the action level. Refer to API RP 49 Section 6.6 for proper breathing equipment recommendations for oil and gas well drilling and servicing operations involving hydrogen sulfide.

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(Sulfur Dioxide) Characteristics

Sulfur Dioxide

Physical Data

Chemical Name: Sulfur Dioxide

CAS Number: 7446-09-05

Synonyms: Sulfurous acid anhydride, sulfurous oxide, sulfur oxide

Chemical Family: Inorganic

Chemical Formula: SO2

Normal Physical State: Colorless gas normally heavier than air.

Boiling Point: 148F.

Flammable Limits: Non-Flammable (produced from burning hydrogen sulfide).

Solubility: Readily soluble in water and oil; solubility decreases as the fluid temperature increases.

Odor and Warning Properties: Sulfur dioxide has a pungent odor associated with burning sulfur. It produces a suffocating effect and produces sulfurous acid on membranes of the nose and throat.

Sulfur Dioxide

Exposure Limits

The American Conference of Governmental Industrial

Hygienists (ACGIH) recommends 2 ppm as an 8-hour TWA Threshold Limit Value (TLV)¨ and 5 ppm as a STEL averaged

over 15 minutes for sulfur dioxide.

Physiological Effects

ACUTE TOXICITY

Inhalation at certain concentrations can lead to injury or death. 100 ppm is considered by the ACGIH as Immediately

Dangerous to Life and Health (IDLH).

Respiratory Protection

Respiratory protection shall be worn above the action level. Refer to API RP Section 6.6 for proper breathing equipment recommendations for oil and gas well drilling and servicing operations

involving SO2.

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Site Specific ERP (Emergency Action Plan)

Attach the Site Specific ERP Plan to back of this H2S Contingency Plan for each well site

H2S PERMIT

This must be completed before moving onto any location with known Levels or High Potential H2S Levels

DATE: _____ (dd-mmm-yyyy) LOCATION: _____

AREA & RIG #: _____ RIG MANAGER: _____

1. Scope of Work (to be filled by Permit Applicant)

Work Description & Employee Identification:

1. Have all steps been taken to mitigate the H2S hazard before moving on location? Yes or No (circle one)
2. Description of work to be performed?

_____

_____

_____

3. All Affected Individuals: (Anyone listed must review the permit and be present for all pre-planning)

1. _____ 5. _____ 9. _____
2. _____ 6. _____ 10. _____
3. _____ 7. _____ 11. _____
4. _____ 8. _____ 12. _____

2. Pre-Job H2S Safety Review (check all that are discussed and identified. Verify they are up-to-date and function tested)

Hazard Assessment:

- ☐ Weather (wind, rain, etc.)
- ☐ Predominant Wind Direction Identified
- ☐ H2S Rescue On Site
- ☐ All employees current on H2S Training
- ☐ (2) Emergency Exits
- ☐ Current H2S levels
- ☐ Muster Points Identified
- ☐ Coordinates/Directions to Nearest Hospital
- ☐ Historical H2S Data on the well verified
- ☐ Fire Protection Equipment
- ☐ First Aid Equipment
- ☐ Whip Checks (Appropriately Rated)
- ☐ Equipment Positioning and Spacing
- ☐ Emergency Vehicle and Driver (and backup driver)
- ☐ Closest Cell Service
- ☐ Emergency Responders Numbers
- ☐ Only Essential Personnel allowed on site
- ☐ Other: _____

Personal Protective Equipment (all work requires hard-hat, safety glasses, gloves and steel toed boots) (Check all that apply)

- ☐ H2S Rescue Team Onsite
- ☐ Hard Hats
- ☐ Gloves (specific type)
- ☐ Hearing Protection
- ☐ Face Shield/Goggles/Glasses
- ☐ Self-Rescue Packs for each person
- ☐ (2) Wind Indicators
- ☐ Fans (2)
- ☐ H2S Danger Signage and Flags
- ☐ Personal Air Monitors (H2S) – Each Person
- ☐ Area Gas Monitors (4Gas)
- ☐ SCBA(s)
- ☐ Power Source for Fans (Generator)
- ☐ Other: _____
- ☐ Other: _____

3. Equipment Preparation (check all that apply)

- ☐ Well has been killed with Brine and Scavenger prior to moving on location
- ☐ Flowback fluid can be isolated and NO flowback is being returned to other equipment (cement pumps, etc)
- ☐ Flowback tanks are downwind and at least 100ft from the well (if not 100ft, they are located a safe distance with appropriate precautions; fans)
- ☐ Half Round, Earthen Pit, "open top" tanks are NOT permitted for flowback
- ☐ Equipment is safely and properly spaced
- ☐ JU Head (well Control) with Appropriate pressure rating and rubber strippers is being utilized
- ☐ Other: _____

4. Operations

- ☐ Has H2S Condition Been Identified (I, II, III)?
- ☐ Have H2S Contingency Plan, H2S SOP, and Emergency Action Plan been Reviewed?
- ☐ Is seat sling properly installed on derrick harness? Secondary fall protection (SRL) attached to top dorsal D ring of harness on man being hoisted?
- ☐ Has a flagger been assigned to guide winch operator?
- ☐ Has a JSA been completed and reviewed before the start of the task?
- ☐ Other: _____

5. H2S Reading and Condition Level

	PPM Levels	Comments	Initials
Historical Data or the most recent reading (whichever is applicable)			
Highest Recorded (Closed System)			
Highest recorded in last 8 hours (Open Atmosphere)			
H2S Condition Level			

6. Approval Signatures (Indicates the job has been mutually reviewed and verified by all parties and a H2S Specific JSA Conducted

Rig Foreman _____ Operator (if applicable) _____

Rig Manager _____ H2S Rescue Representative _____

7. Close Out Signatures (Indicates the job has been completed, H2S level verified, and levels are back in safe working conditions)

Rig Foreman _____ Rig Manager _____

11/10/2016

PLUGGING PERMIT CHECKLIST

RECEIVED
Office of Oil and Gas
JAN 08 2026
WV Department of
Environmental Protection

Plugging Permit

- [x] WW-4B
- [x] WW-4B signed by inspector
- [x] WW-4A
- [x] SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED MAIL
- [ ] COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- [x] WW-9 PAGE 1 (NOTARIZED)
- [x] WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- [x] WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- [x] RECENT MYLAR PLAT OR WW-7
- [x] WELL RECORDS/COMPLETION REPORT
- [x] TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- [x] MUST HAVE VALID BOND IN OPERATOR'S NAME
- [ ] CHECK FOR $100 IF PIT IS USED

03/06/2026

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

plugging permit issued for 4709901427

1 message

Kennedy, James P <james.p.kennedy@wv.gov> Wed, Mar 4, 2026 at 9:37 AM
To: Danielle Bays <daniellebays@gmail.com>, Brian Warden <brian.warden@wv.gov>, Alana C Hartman <alana.c.hartman@wv.gov>, brent.wright@aol.com, assessor@waynecountywv.org, Henry J Harmon <henry.j.harmon@wv.gov>

To whom it may concern, a plugging permit has been issued for 4709901427.

--

James Kennedy

Environmental Resource Specialist III / Permitting

WVDEP Office of Oil and Gas

601 57th Street, SE

Charleston, WV 25304

304-926-0499 ext. 45025

james.p.kennedy@wv.gov

4709901427.pdf
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03/06/2026