



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

Monday, March 23, 2026

WELL WORK PLUGGING PERMIT
Vertical Plugging

BOONE EAST DEVELOPMENT CO., LLC
PO BOX 261

JULIAN, WV 25529

Re: Permit approval for 8907
47-109-00061-00-00

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: NEW RIVER & POCA COAL
U.S. WELL NUMBER: 47-109-00061-00-00
Vertical Plugging
Date Issued: 3/23/2026

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. 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 12/03, 2025
2) Operator's
Well No. WY051
3) API Well No. 47-109 - 0061

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 1,827 Watershed Brier Creek of Indian Creek of Guyandotte River
District Baileysville County Wyoming Quadrangle Pineville

6) Well Operator Boone East Development Co., LLC 7) Designated Agent Timothy Ryan McGrady
Address 636 Shelby Street, 3rd Floor Address 300 Running Right Way, PO Box 261
Bristol, TN 37620 Julian, WV 25529

8) Oil and Gas Inspector to be notified Name Christian Porter
Address PO Box 181
Holden, WV 25625
9) Plugging Contractor Name Ultra Production Company, LLC
Address PO Box 289
Cedar Bluff, VA 24609

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

See attached Plugging Prognosis.

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

Work order approved by inspector  Date 3-11-26

03/27/2026

Procedures:

- 1 Notify State and Federal Agencies 48 hours prior to starting.
- 2 Disassemble surface facilities and gain access to the well head.
- 3 Tool in hole with the logging probes, Gel hole as necessary, Locate Free Point 5-1/2" casing.
- 4 Shoot off 5-1/2" at lowest possible joint and remove.
- 5 If necessary set Bottom Hole Plug to ensure plugging integrity
- 6 Pull 6-5/8" casing. If it doesn't pull, shoot it off at lowest possible joint and remove.
- 7 If necessary set plug to ensure plugging integrity from TD or top of Bottom Hole Plug
- 7 Repeat bond log if necessary for 8-1/4" casing.
- 8 If 8-1/4" casing doesn't pull and cannot be shot off below the lowest mineable coal seam, it will be cut, milled, ripped or perforated at 50 ft. intervals beginning 200 ft. below the lowest mineable coal seam to at least 100 ft. above the upper most mineable coal seam. The casing will also be cut, milled, ripped or perforated at 5 ft. intervals for each minable seam beginning 10 ft. below to 10 ft. above each seam.
- 9 Repeat bond log if necessary for 13" casing.
- 10 If 13" casing doesn't pull and cannot be shot off below the lowest mineable coal seam, it will be cut, milled, ripped or perforated at 50 ft. intervals beginning 200 ft. below the lowest mineable coal seam to at least 100 ft. above the upper most mineable coal seam. The casing will also be cut, milled, ripped or perforated at 5 ft. intervals for each minable seam beginning 10 ft. below to 10 ft. above each seam.
- 11 All cement plugs will use Class A Expanding cement (minimum of 0.5% expansion upon setting) will be pumped under pressure (at least 200psi).
 - If Bottom Hole Plug is utilized, the final plugging will begin at the top of the Bottom Hole Plug and continue to the surface
 - If Bottom Hole Plug is not required, the the final plug will be from TD to Surface
- 12 Set Monument according to WV DEP 35CSR4 specifications and reclaim the site.
13. Complete and submit the Plugging Affidavit. *AP*

Plug and Perforation Schedule
47-109-00061

Type	Top	Bottom	Name	Comment
Perf	605	605	Seam 1 less 100'	Continuous Cement Plug from TD to surface with perforation placement to comply with MSHA Requirements. If necessary to utilize a Bottom Hole Plug, final cement plug will be placed at the top of that plug to the surface.
Perf	655	655	Seam 1 less 50'	
Perf	695	695	Seam 1 Less 10'	
Perf	700	700	Seam 1 Less 5'	
Perf	705	705	Seam 1 Top	
Perf	707	707	Seam 1 Middle	
Perf	709	709	Seam 1 Bottom	
Perf	714	714	Seam 1 plus 5'	
Perf	719	719	Seam 1 plus 10'	
Perf	759	759	Seam 1 plus 50'	
Perf	809	809	Seam 1 plus 100'	
Perf	821	821	Seam 2 less 100'	
Perf	871	871	Seam 2 less 50'	
Perf	911	911	Seam 2 less 10'	
Perf	916	916	Seam 2 less 5'	
Perf	921	921	Seam 2 Top	
Perf	923	923	Seam 2 Middle	
Perf	925	925	Seam 2 Bottom	
Perf	930	930	Seam 2 plus 5'	
Perf	935	935	Seam 2 plus 10'	
Perf	975	975	Seam 2 plus 50'	
Perf	1018	1018	Seam 3 less 10'	
Perf	1023	1023	Seam 3 less 5'	
Perf	1028	1028	Seam 3 Top	
Perf	1031	1031	Seam 3 Middle	
Perf	1034	1034	Seam 3 Bottom	
Perf	1039	1039	Seam 3 plus 5'	
Perf	1044	1044	Seam 3 plus 10'	
Perf	1084	1084	Seam 3 plus 50'	
Perf	1134	1134	Seam 3 plus 100'	
Perf	1284	1284	Seam 3 plus 150'	
Perf	1234	1234	Seam 3 plus 200'	
Plug	1234	TBD	Mid-Hole Plug	If necessary to protect 6-5/8" portion
Plug	TBD	3852	Bottom Hole Plug	If necessary to protect 5-1/2" portion

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Geneville

WELL RECORD

Permit No. WYO- 61

Oil or Gas Well (KIND)

Company Hope Natural Gas Company
Address 445 West Main St. Clarksburg, W. Va.
Farm New River & Pocahontas Coal Co. Acres 17351.82
Location (waters) _____
Well No. 8907 Elev. 1888
District Baileysville County Wyoming
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced January 1, 1946
Drilling completed April 6, 1946
Date Shot not From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
60 /10ths Merc. in 5 1/2" Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 158 922 feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	14	14	Kind of Packer
18	445	445	
10			Size of
8 5/8"	1588	1588	
6 7/8"	2739	2739	Depth set
5 3/16 5 1/2"	3739	3739	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
8" set in cement - jelled to surface
5 1/2" set in cement
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
705 FEET 46 INCHES 921 FEET 46 INCHES
1028 FEET 72 INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	14			
Sand			14	53			
Lime			53	140			
Sand			140	161	water	158	
Lime			161	182			
Slate			182	227			
Lime			227	255			
Slate shell			255	327			
Gritty lime			327	431			
Sand			431	529			
Slate shell			529	549			
Lime			549	594			
Sand			594	705			
Coal			705	709			
Slate shell			709	733			
Lime			733	805			
Sand			805	921			
Coal			921	925	water	922	
Slate shell			925	950			
Sand			950	1028			
Coal			1028	1034			
Slate			1034	1043			
Lime shell			1043	1086			
Sand			1086	1113			
Lime			1113	1202			
Sand			1202	1301			
Lime shell			1301	1315			
Red rock			1315	1330			
Lime shell			1330	1347			
Red rock			1347	1360			
Lime			1360	1375			
Lime shell			1375	1573			
Gritty Lime			1573	1623			
Red rock			1623	1626			
RAVENCEIFFER			1626	1717	gas	1675 1688	
Slate shell			1717	1732			
AVIS LIME			1732	1790			
Red lime			1790	1811			
Gr. Lime			1811	1835			

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1835	1839			
Lime			1839	1882			
Lime			1882	1920			
Red rock			1920	2020			
UPPER MAXON			2020	2045			
Lime			2045	2140			
Slate shell			2140	2169			
Gr. Lime			2169	2175			
MAXON			2175	2223			
Lime			2223	2229			
Red rock			2229	2239			
Lime			2239	2295			
Shell			2295	2324			
Lime shell			2324	2393			
Lime			2393	2403			
Lime shell			2403	2435			
LOWER MAXON			2435	2527			
Slate shell			2527	2600			
LITTLE MAXON			2600	2686			
Slate shell			2686	2718			
HIG LIME			2718	3168	show gas	3105	
RED MACGRADY			3168	3245			
HIG INFON			3245	3458			
Lime shell			3458	3484			
Slate shell			3484	3528			
Lime			3528	3580			
Slate shell			3580	3607			
Gr. Lime			3607	3632			
Slate shell			3632	3676			
Lime			3676	3790			
Brown shale			3790	3807			
Britty Lime			3807	3825			
BREDA			3825	3852	gas 3835-37039-48		
Total depth				3852			

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Date April 17, 1946, 194

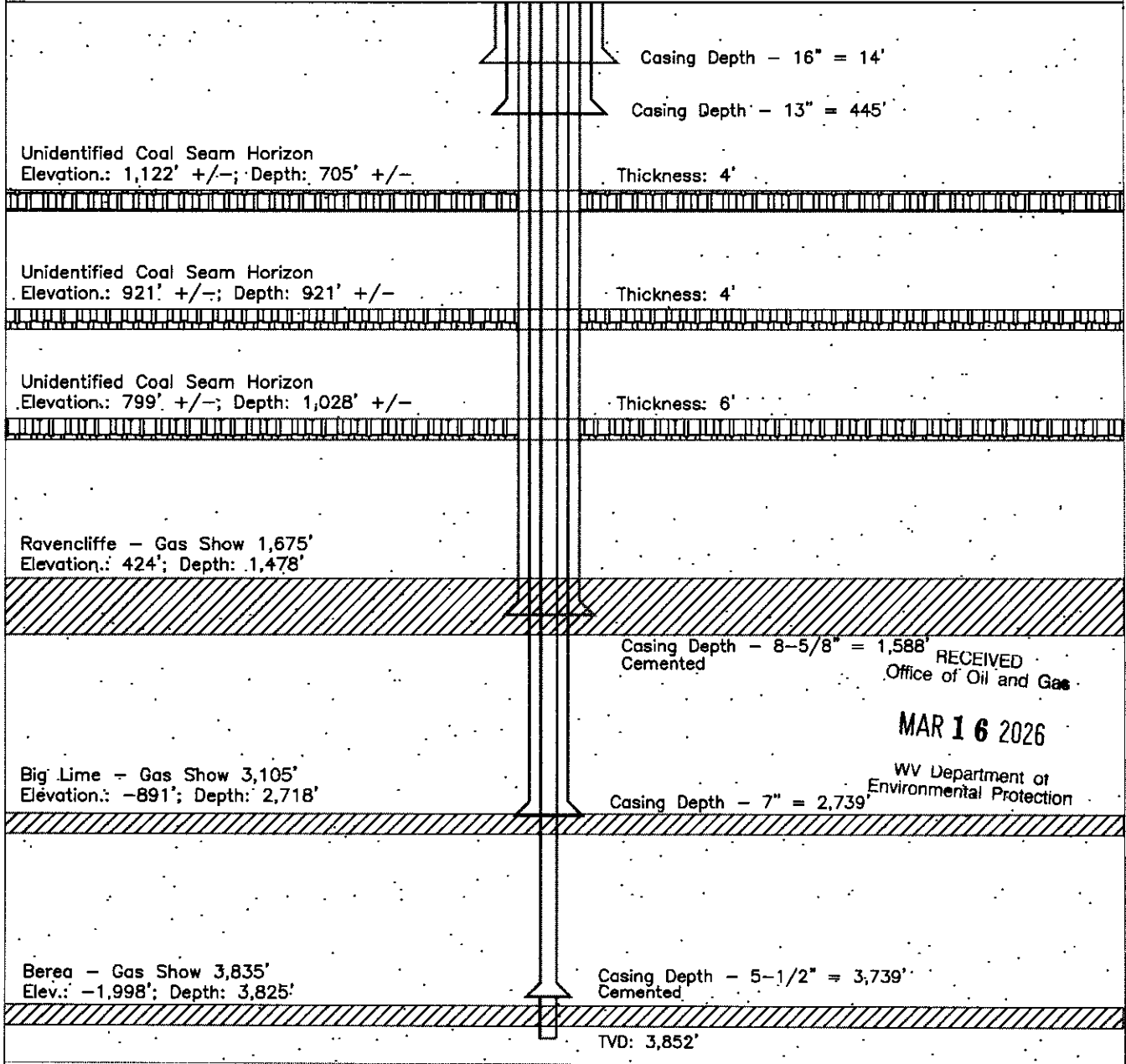
APPROVED Hope Natural Gas Company, Owner

By *[Signature]* General Superintendent.

03/27/2026







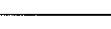
API: 47-109-00061
 Reported Operating Pressure: 7.5 psi

Surface Elevation = 1,827'



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LEGEND

-  Coal Seam
-  16" Diameter Casing
-  13" Diameter Casing
-  8 1/4" Diameter Casing
-  6 5/8" Diameter Casing
-  5 3/16" Diameter Casing
-  Open Hole

47-109-00061 Well Profile

Information gathered from WV - Department of Mines -
 Oil & Gas Division - Well Record

SCALE: NTS	ULTRA PRODUCTION CO., LLC PO Box 289 Cedar Bluff, VA 24609	DRAWN BY: AH
DATE: 11-14-25		FILE: Well Profiles

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Ultra Production Company, LLC
 Plugging Volumes and Location
 API# 47-109-00061

Volumes

Footage	Casing Size	Outside Diameter (in)	Inside Diameter (in)	Weight (lbs/ft)	Fill Volume OD (CuFt)	Fill Volume ID (CuFt)	Total Weight (lbs)
14	16	16.000	15.124	75	19.54	17.46	1,050
445	13	13.000	12.531	60	409.97	380.92	26,700
1,588	8-1/4	8.625	7.981	29	643.99	551.41	45,385
2,739	6-5/8	7.000	6.375	19	731.64	606.82	52,041
3,739	5-1/2"	5.500	5.188	13	616.58	548.50	48,607
					2,421.71	2,105.11	173,783

*Inside Diameter and Weight per Foot are estimated figures based on standard sizes

Location

Geographic Coordinates (d/m/s) WGS 1984		UTM - NAD 83 - 17 North - Meters	
Latitude	Longitude	Northing	Easting
37° 32' 30.6727"	-81° 37' 35.0894"	4155169.080	444661.85

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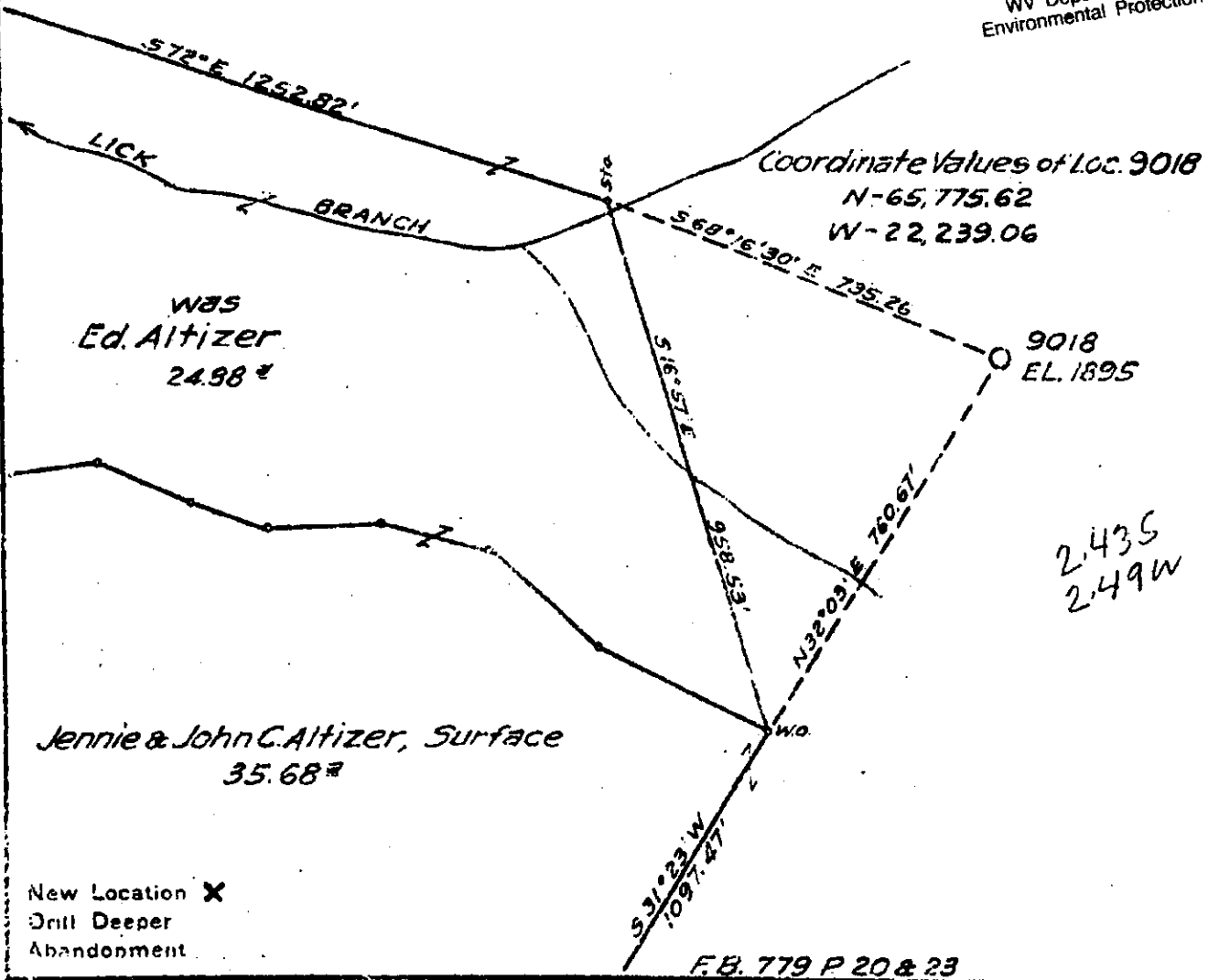
W.M. Ritter Lumber Co.



Latitude 31 35'

New River & Pocahontas Consolidated Coal Co.
17,350 ±

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2,435
2,49W

Company Hope Natural Gas Co.
 Address Clarksburg, W. Va.
 Owner New River & Pocahontas Consol. Coal Co.
 Acres 17,350 Lease No. 56244
 Well (Farm) No. _____ Serial No. 9018
 Elevation (Spirit Level) 1895
 Quadrangle Pineville
 County Wyoming District Baileysville
 Engineer W.M. Powers
 Engineer's Registration No. 900
 File No. _____ Drawing No. _____
 Date Dec. 7, 1945 Scale 1" = 300'

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

WELL LOCATION MAP
FILE NO. WYO-116

03/27/2026

+ 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



JAN 18 2019

In the matter of:
Spartan Mining Company, LLC
Road Fork # 52 Mine
I.D. No. 46-09522

Petition for Modification

Docket No. M-2018-015-C

PROPOSED DECISION AND ORDER

On May 11, 2018, a petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to Spartan Mining Company, LLC's Road Fork # 52 Mine located in Wyoming County, West Virginia. The Petitioner filed the petition to permit an alternative method of compliance with the standard with respect to vertical oil and gas wells into the underground coal seams. The Petitioner alleges that the proposed alternative method will at all times guarantee no less than the same measure of protection afforded miners under 30 C.F.R. § 75.1700 as that provided by the standard which states:

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§ 75.1700 Oil and gas wells.

Each operator of a coal mine shall take reasonable measures to locate oil and gas wells penetrating coalbeds or any underground area of a coal mine. When located, such operator shall establish and maintain barriers around such oil and gas wells in accordance with State laws and regulations, except that such barriers shall not be less than 300 feet in diameter, unless the Secretary or his authorized representative permits a lesser barrier consistent with the applicable State laws and regulations where such lesser barrier will be adequate to protect against hazards from such wells to the miners in such mine, or unless the Secretary or his authorized representative requires a greater barrier where the depth of the mine, other geologic conditions, or other factors warrant such a greater barrier.

The petition addresses items for which district manager approval is required, procedures for cleaning out and preparing oil and gas wells prior to plugging or re-plugging, procedures for plugging or re-plugging oil or gas wells to the surface, procedures for plugging or re-plugging oil or gas wells for use as degasification boreholes, alternative procedures for preparing and plugging or re-plugging oil or gas wells, and procedures after approval has been granted to mine through a plugged or re-plugged well.

On June 6, 2018 MSHA personnel conducted an investigation of the petition and filed a report of their findings with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition, MSHA's investigative report and comments received from several miners from Road Fork # 52 Mine, this Proposed Decision and Order is issued.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

The Road Fork # 52 Mine is currently under development and employs 5 to 30 contract miners including supervisory personnel developing the belt and supply slope into the Pocahontas No. 3 seam. The average coal seam height is 48 inches. The Road Fork #52 Mine is currently in non-producing status and eventually will operate two continuous miner sections producing coal five to six days per week. The slope construction is ventilated with a blowing fan. The methane liberations for this mine have not yet been determined. No methane has been encountered during the slope construction.

The miners at this mine are not represented by a labor union; nor do they have a designated miner's representative.

Although MSHA has granted modifications of this standard at different mines over the years, changing circumstances in oil and gas drilling technology and practices compels MSHA to reconsider the safest approach to mining around or through such wells. In recent years, changes in hydraulic fracturing (fracking) technology, marketplace and resource conditions have led to an increase in the number and depth of oil and gas wells penetrating the Pittsburgh and other coal seams. Since deeper wells are usually associated with higher well pressures, modifications of § 75.1700 must include appropriate measures to better protect miners. In addition to the risks associated with higher well pressures, MSHA is concerned that operators may be preparing and plugging wells to inadequate depths for convenience or to lower costs, which may result in reduced safety for miners.

This PDO addresses these concerns as they affect the Road Fork # 52 Mine. There are several differences between the petitioner's proposal and the amended terms and conditions set forth by MSHA. The essential changes include:

1. Making a diligent effort to clean out the well bore to the original total depth. MSHA believes that cleaning wells to the original total depth provides miners

with a higher degree of safety by ensuring all gas producing zones have been effectively sealed.

2. Unknown total depth: If the total depth of the well is unknown the operator must contact the District Manager before proceeding. MSHA believes, by including this step in the process, that miner safety will be better served because the petitioner and the District Manager can work together to evaluate the conditions of the well to be plugged as well as the safest way to accomplish the plugging.

As stated in petitioner's petition for modification on page 3, item 8, *"the first such vertical well to be encountered in the mine plan for the Road Fork #52 Mine is the well with an API of 47-109-00120. United Producing Company drilled this vertical gas well from March to July in 1946. EQT Production currently operates the producing well. The well was drilled to a depth of 3450 feet. The Pocahontas No. 3 seam was drilled through by the vertical well at a depth of +/- 608 feet. Casing of 3 1/2", 7", 8 5/8", and 10 3/4" was left in the well to below the No. 3 seam."*

In the petitioner's item 11, page 3, ***Procedure for cleaning, preparing and plugging oil and gas wells. Section b, Plugging oil or gas wells to the surface.*** The following procedures shall be utilized when plugging gas or oil wells to the surface:

1) *A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest mineable coalbed to the surface with an expanding cement plug extending from at least 200 feet below the lowest mineable coalbed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest mineable coalbed.*

The terms and conditions required by MSHA will prepare these wells for safe intersection by making a diligent effort to clean the wells to the original total depth, removing all casing and plugging to the total depth by pumping expanding cement slurry and pressurizing to at least 200 psi. If the total depth cannot be reached and casing cannot be removed, these alternative methods included in this proposed decision and order have proven safe and effective when properly implemented.

Therefore, the terms and conditions as amended by MSHA will at all times guarantee no less than the same measure of protection afforded the miners under 30 CFR 75.1700 for wells at least 2,000 to 4,000 feet or greater in depth. On the basis of the petition, comments received, and the findings of MSHA's investigation, Spartan Mining Company, LLC is granted a modification of the application of 30 C.F.R. § 75.1700 to its Road Fork # 52 Mine .

ORDER

Under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at Spartan Mining Company, LLC's Road Fork # 52 Mine is hereby:

GRANTED, subject to the following terms and conditions:

1. DISTRICT MANAGER APPROVAL REQUIRED

- a. The type of oil or gas well that will be considered under this Petition includes wells that have been depleted of oil or gas production or have not produced oil or gas and may have been plugged, or active conventional vertical wells which are not producing gas or oil, subject to the provisions below. **Unconventional wells in the Marcellus, Utica, and all other unconventional shale oil and gas wells are not subject to this modification.** Nothing in these provisions is meant to lessen, diminish, or substitute any provision found in applicable state laws or regulations.
- b. A safety barrier of 300 feet in diameter (150 feet between any mined area and a well) shall be maintained around all oil and gas wells (defined herein to include all active, inactive, abandoned, shut-in, previously plugged wells, water injection wells, and carbon dioxide sequestration wells) until approval to proceed with mining has been obtained from the district manager.

Wells that were drilled into potential oil or gas producing formations that did not produce commercial quantities of either gas or oil (exploratory wells, wildcat wells or dry holes) are classified as oil or gas wells by MSHA.

- c. Prior to mining within the safety barrier around any well that the mine plans to intersect, the mine operator shall provide to the district manager a sworn affidavit or declaration executed by a company official stating that all mandatory procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order.

The affidavit or declaration must be accompanied by all logs described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs which the district manager may request. The district manager will review the affidavit or declaration, the logs and any other records that have been requested, and may inspect the well itself, and will then determine if the operator has complied with the procedures for cleaning out, preparing, and plugging each well as described by the terms and conditions of

this Order. If the district manager determines that the procedures have been complied with, he will provide his approval, and the mine operator may then mine within the safety barrier of the well, subject to the terms of this Order.

If well intersection is not planned, the mine operator may request a permit to reduce the 300 foot diameter of the safety barrier that does not include intersection of the well. The district manager may require documents and information that help verify the accuracy of the location of the well in respect to the mine maps and mining projections.

This information may include survey closure data, down-hole well deviation logs, historical well intersection location data and any additional data required by the district manager. If the district manager determines that the proposed barrier reduction is reasonable, he will provide his approval, and the mine operator may then mine within the safety barrier of the well.

- d. The terms and conditions of this Order apply to all types of underground coal mining.

2. MANDATORY PROCEDURES FOR CLEANING OUT, PREPARING, PLUGGING, AND RE-PLUGGING OIL OR GAS WELLS

a. MANDATORY PROCEDURES FOR CLEANING OUT AND PREPARING VERTICAL OIL AND GAS WELLS PRIOR TO PLUGGING OR RE-PLUGGING

The mine operator shall test for gas emissions inside the hole before cleaning out, preparing, plugging, and re-plugging oil and gas wells. The District Manager shall be contacted if gas is being produced.

- (1) A diligent effort shall be made to clean the well to the original total depth. The mine operator shall contact the District Manager prior to stopping the operation to pull casing or clean out the total depth of the well.

If this depth cannot be reached, and the total depth of the well is less than 4,000 feet, the operator shall completely clean out the well from the surface to at least 200 feet below the base of the lowest mineable coal seam, unless the district manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well. The operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the base of the lowest mineable coal seam. Wells of this greater depth are under greater pressure, so the 400 feet requirement

provides greater protection for miners. The operator shall remove all material from the entire diameter of the well, wall to wall. If the total depth of the well is unknown and there is no historical information, the mine operator must contact the District Manager before proceeding.

- (2) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a gamma log, a bond log and a deviation survey for determining the top, bottom, and thickness of all coal seams down to the lowest minable coal seam, potential hydrocarbon producing strata and the location of any existing bridge plug. In addition, a journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning cleaning and sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
- (3) When cleaning out the well as provided for in subparagraph (a)(1), the operator shall make a diligent effort to remove all of the casing in the well. After the well is completely cleaned out and all the casing removed, the well should be plugged to the total depth by pumping expanding cement slurry and pressurizing to at least 200 psi. If the casing cannot be removed, it must be cut, milled, perforated or ripped at all mineable coal seam levels to facilitate the removal of any remaining casing in the coal seam by the mining equipment. Any casing which remains shall be perforated or ripped to permit the injection of cement into voids within and around the well. All casing remaining at mineable coal seam levels shall be perforated or ripped at least every 5 feet from 10 feet below the coal seam to 10 feet above the coal seam.

Perforations or rips are required at least every 50 feet from 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam up to 100 feet above the uppermost mineable coal seam. See Appendix A. The mine operator must take appropriate steps to ensure that the annulus between the casing and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids.

If it is not possible to remove all of the casing, the operator shall notify the District Manager before any other work is performed. **If the well cannot be cleaned out or the casing removed, the operator shall prepare the well as described from the surface to at least 200 feet below the base of the lowest mineable coal seam for wells less than 4000 feet in depth and 400 feet below**

the lowest mineable coal seam for wells 4000 feet or greater, unless the District Manager requires cleaning out and removal of casing to a greater depth based on his judgement as to what is required due to geological strata, or due to the pressure within the well.

If the operator, using a casing bond log can demonstrate to the satisfaction of the district manager that all annuli in the well are already adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

- (4) If the District Manager concludes that the completely cleaned-out well is emitting excessive amounts of gas, the operator must place a mechanical bridge plug in the well. **It must be placed in a competent stratum at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam, but above the top of the uppermost hydrocarbon-producing stratum, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.** The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used. The mine operator shall document what has been done to "kill the well" and plug the hydrocarbon producing strata.
- (5) If the upper-most hydrocarbon-producing stratum is within 300 feet of the base of the coal seam to be mined, or the lowest minable coal seam, whichever is lower, the operator shall properly place mechanical bridge plugs as described in subparagraph (a)(4) to isolate the hydrocarbon-producing stratum from the expanding cement plug.
Nevertheless, the operator shall place a minimum of 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.

b. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL OR GAS WELLS TO THE SURFACE

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be used to plug or re-plug wells:

- (1) The operator shall pump expanding cement slurry down the well to form a plug which runs from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the of the coal seam to be mined, or the lowest mineable coal seam (or lower if required by the district manager based on his judgment that a lower depth is required due to the geological strata, or due to the pressure within the well) to the surface. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. Portland cement or a lightweight cement mixture may be used to fill the area from 100 feet above the top of the uppermost mineable coal seam (or higher if required by the district manager based on his judgment that a higher distance is required due to the geological strata, or due to the pressure within the well) to the surface.
- (2) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger diameter casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing. When the hole cannot be marked with a physical monument (e.g. prime farmland), high-resolution GPS coordinates (one-half meter resolution) are required.

c. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL AND GAS WELLS FOR USE AS DEGASIFICATION WELLS

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be utilized when plugging or re-plugging wells that are to be used as degasification wells:

- (1) The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or the lowest mineable coal seam whichever is lower, unless the District Manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. The top of the expanding cement shall extend at least 50 feet above the top of the coal seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.

- (2) The operator shall securely grout into the bedrock of the upper portion of the degasification well a suitable casing in order to protect it. The remainder of this well may be cased or uncased.
- (3) The operator shall fit the top of the degasification casing with a wellhead equipped as required by the district manager in the approved ventilation plan. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.
- (4) Operation of the degasification well shall be addressed in the approved ventilation plan. This may include periodic tests of methane levels and limits on the minimum methane concentrations that may be extracted.
- (5) After the area of the coal mine that is degassed by a well is sealed or the coal mine is abandoned, the operator must plug all degasification wells using the following procedures:
 - (i) The operator shall insert a tube to the bottom of the well or, if not possible, to within 100 feet above the coal seam being mined. Any blockage must be removed to ensure that the tube can be inserted to this depth.
 - (ii) The operator shall set a cement plug in the well by pumping Portland cement or a lightweight cement mixture down the tubing until the well is filled to the surface.
 - (iii) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.
 - (iv) This provision does not apply to traditional degasification holes which have not intersected the seam to be mined, have not commercially produced gas and have no API number.

d. MANDATORY ALTERNATIVE PROCEDURES FOR PREPARING AND PLUGGING OR RE-PLUGGING OIL OR GAS WELLS

The following provisions apply to all wells which the operator determines, and with which the MSHA district manager agrees, cannot be completely cleaned out due to damage to the well caused by subsidence, caving, or other factors.

- (1) The operator shall drill a hole adjacent and parallel to the well, to a depth of at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, unless the district manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.

The operator shall use a geophysical sensing device to locate any casing which may remain in the well.

- (2) If the well contains casing(s), the operator shall drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the operator shall perforate or rip all casings at least every 5 feet. Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, up to 100 feet above the seam being mined, unless the district manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well. The diagram shown in Appendix A is representative of the locations of the perforations or ripping that must be done.

The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the district manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

- (3) Where the operator determines, and the District Manager agrees, that there is insufficient casing in the well to allow the method outlined in subparagraph (d)(3) to be used, then the operator shall use a horizontal hydraulic fracturing technique to intercept the original well. From at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, to a point at least 50 feet above the seam

being mined, the operator shall fracture in at least six places at intervals to be agreed upon by the operator and the District Manager after considering the geological strata and the pressure within the well. The operator shall then pump expanding cement into the fractured well in sufficient quantities and in a manner which fills all intercepted voids.

- (4) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a gamma log, a bond log and a deviation survey for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or lowest minable coal seam, whichever is lower, potential hydrocarbon producing strata and the location of any existing bridge plug. The operator may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment necessary to obtain the log.
- (5) A journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
- (6) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the adjacent hole, from the bottom to the surface, with Portland cement or a lightweight cement mixture.

The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level.

A combination of the methods outlined in subparagraphs (d)(3) and (d)(4) may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The operator and the District Manager shall discuss the nature of each hole. The District Manager may require that more than one method be utilized. The mine operator may submit an alternative plan to the district manager for approval to use different methods to address wells that cannot be completely cleaned out. The District Manager may require additional documentation and certification by a registered petroleum engineer to support the proposed alternative methods.

3. **MANDATORY PROCEDURES WHEN MINING WITHIN A 100-FOOT DIAMETER BARRIER AROUND WELL**

- a. A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA District Manager may request that a conference be conducted prior to intersecting any plugged or re-plugged well. Upon receipt of any such request, the District Manager shall schedule such a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation. The purpose of the conference shall be to review, evaluate, and accommodate any abnormal or unusual circumstance related to the condition of the well or surrounding strata when such conditions are encountered.
- b. The operator shall intersect a well on a shift approved by the District Manager. The operator shall notify the District Manager and the miners' representative in sufficient time prior to intersecting a well in order to provide an opportunity to have representatives present.
- c. When using continuous mining methods, the operator shall install drivage sights at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well.

When using longwall-mining methods, distance markers shall be installed on 5-foot centers for a distance of 50 feet in advance of the well in the headgate entry and in the tailgate entry.

- d. The operator shall ensure that fire-fighting equipment including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the well intersection (when either the conventional or continuous mining method is used) is available and operable during all well intersections. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient.
- e. The operator shall ensure that sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, emergency plugs and suitable sealing materials shall be available in the immediate area of the well intersection.

- f. On the shift prior to intersecting the well, the operator shall service all equipment and check it for permissibility. Water sprays, water pressures, and water flow rates used for dust and spark suppression shall be examined and any deficiencies corrected.
- g. The operator shall calibrate the methane monitor(s) on the longwall, continuous mining machine, or cutting machine and loading machine on the shift prior to intersecting the well.
- h. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within 30 feet of the well until the well is intersected. During the actual cutting process, no individual shall be allowed on the return side until the well intersection has been completed, and the area has been examined and declared safe. All workplace examinations on the return side of the shearer will be conducted while the shearer is idle. The operator's most current Approved Ventilation Plan will be followed at all times unless the District Manager deems a greater air velocity for the intersect is necessary.
- i. When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when intersecting the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area to be safe before permitting mining to resume.
- k. After a well has been intersected and the working place determined to be safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the well.
- l. If the casing is cut or milled at the coal seam level, the use of torches should not be necessary. However, in rare instances, torches may be used for inadequately or inaccurately cut or milled casings. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore and methane levels of less than 1.0% are present in all areas that will be exposed to flames and sparks from the torch. The operator shall apply a thick layer of rock dust to the roof, face, floor, ribs and any exposed coal within 20 feet of the casing prior to the use of torches.

- m. Non-sparking (brass) tools will be located on the working section and will be used exclusively to expose and examine cased wells.
- n. No person shall be permitted in the area of the well intersection except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- o. The operator shall alert all personnel in the mine to the planned intersection of the well prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well has been mined through.
- p. The well intersection shall be under the direct supervision of a certified individual. Instructions concerning the well intersection shall be issued only by the certified individual in charge.
- q. If the mine operator cannot find the well in the middle of the longwall panel or if a development section misses the anticipated intersection, the operator shall cease mining to examine for hazardous conditions at the projected location of the well, notify the District Manager, and take reasonable measures to locate the well, including visual observation/inspection or through survey data. Mining may resume if the well is located and no hazardous conditions exist. If the well cannot be located, the mine operator shall notify the District Manager to resolve any issues before mining resumes.
- r. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the well intersection, and to issue a withdrawal order, when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the well intersection and/or a withdrawal of personnel by issuing either a verbal or written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.
- s. A copy of this Order shall be maintained at the mine and be available to the miners.
- t. If the well is not plugged to the total depth of all minable coal seams identified in the core hole logs, any coal seams beneath the lowest plug will remain

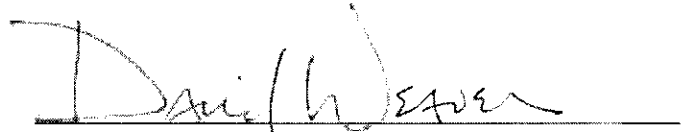
subject to the barrier requirements of 30 C.F.R. § 75.1700, should those coal seams be developed in the future.

- u. All necessary safety precautions and safe practices according to Industry Standards, required by MSHA regulations and State regulatory agencies having jurisdiction over the plugging site will be followed to provide the upmost protection to the miners involved in the process.
- v. All miners involved in the plugging or re-plugging operations will be trained on the contents of this Petition prior to starting the process and a copy of this Petition will be posted at the well site until the plugging or re-plugging has been completed.
- w. Mechanical bridge plugs should incorporate the best available technologies that are either required or recognized by the State regulatory agency and/or oil and gas industry.
- x. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the District Manager. These proposed revisions shall include initial and refresher training on compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in well intersection with training on the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.
- y. The responsible person required under 30 C.F.R. § 75.1501 Emergency Evacuations, is responsible for well intersection emergencies. The well intersection procedures should be reviewed by the responsible person prior to any planned intersection.
- z. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting program of instruction required under 30 C.F.R § 75.1502. The operator will revise the program of instruction to include the hazards and evacuation procedures to be used for well intersections. All underground miners will be trained in this revised plan within 30 days of submittal.

Any party to this action desiring a hearing on this matter must file in accordance with 30 C.F.R. § 44.14, within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 201 12th Street South, Suite 401, Arlington, Virginia 22202-5452.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision.

A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

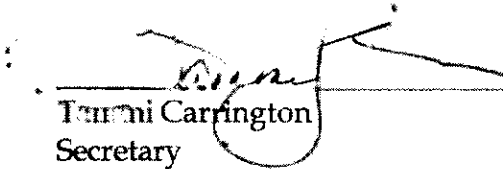
A handwritten signature in black ink, appearing to read "David L. Weaver", is written over a horizontal line.

David L. Weaver
Acting Deputy Administrator
For Coal Mine Safety and Health

Certificate of Service

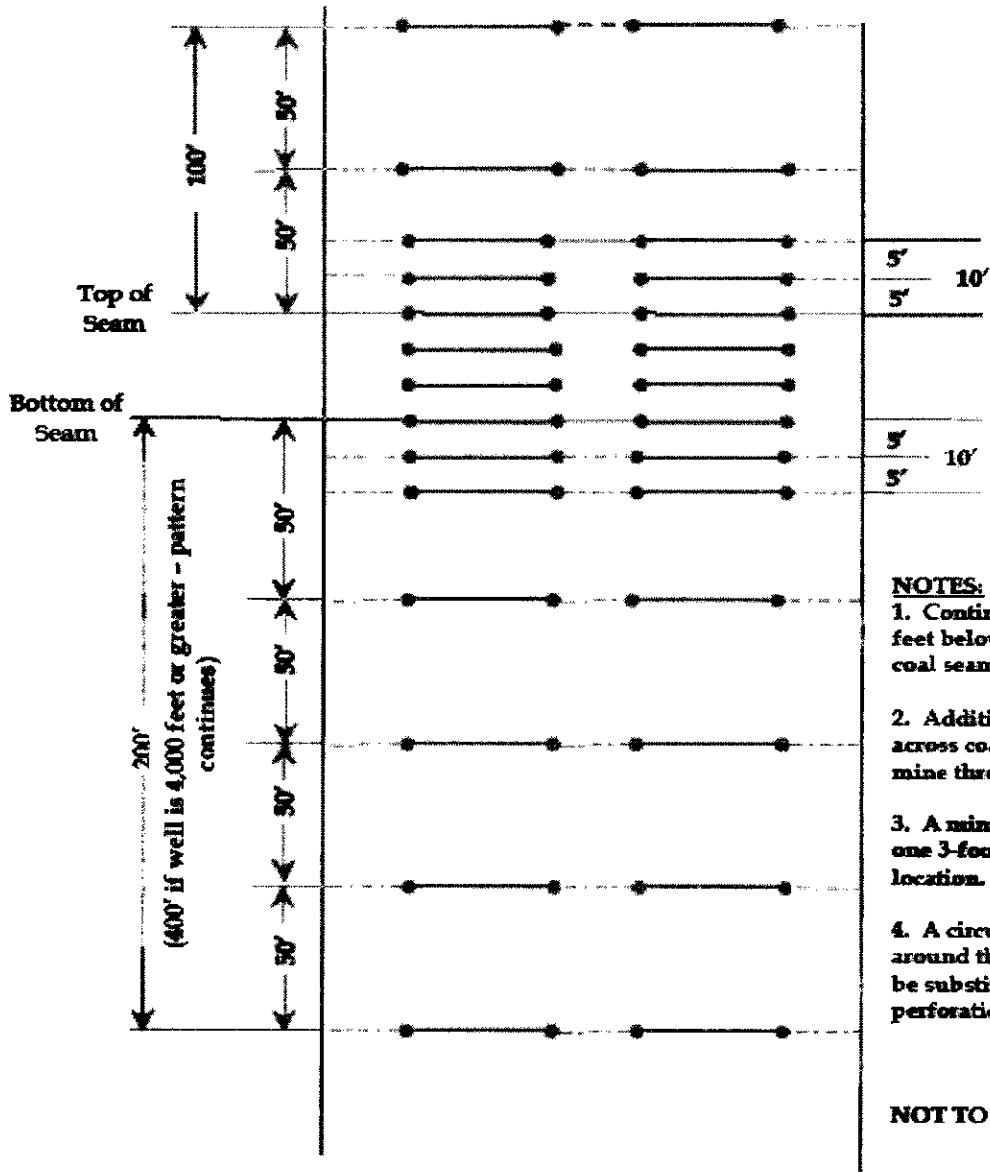
I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, or provided by other electronic means this 18th day of January 2019, to:

Christopher D. Pence, Esq.
James P. McHugh, Esq.
Hardy Pence PLLC
500 Lee Street, East, Suite 701
Charleston, WV 25329


Tami Carrington
Secretary

cc: Eugene White, Director Office of Miners' Health Safety & Training #7 Players Club
Dr. Suite 2, Charleston WV 25311
Eugene.E.White@wv.gov

Appendix A



- NOTES:**
1. Continuous rip from 10 feet below to 10 feet above coal seam or like sketch.
 2. Additional rips made across coal seam to facilitate mine through.
 3. A minimum of 4 shots or one 3-foot rip at each location.
 4. A circumferential cut around the entire casing may be substituted for the perforation or ripping.

NOT TO SCALE

should contain the name, address and telephone number of the person filing the comment, the well operator's name and well number, and the approximate location of the proposed well site including district and county as indicated in the permit application. Comments may be accompanied by other pertinent documents in support of the comment. Other than as prescribed in this rule, no particular form for the comment is prescribed.

5.5. Identification Markings.

5.5.a. Every well shall have attached or stamped, in a permanent manner, the API identification number which consists of the state (47), county (001 through 109), and permit number. Such number shall be no less than one-half (1/2) inch in height and detectable by any interested person approaching the well. Any additional information the well operator may desire to display may be incorporated in the permanent identification plat or stamp in such a manner that it will not confuse or distort the permanent API identification number.

5.5.b. Except as provided below, upon the completion of the plugging and filling of any abandoned well, a permanent monument or marker consisting of a length of pipe (minimum diameter size six (6) inches) filled with concrete (or the equivalent thereof if approved by the Chief) shall be erected over the well; the marker shall extend no less than thirty (30) inches above the surface and not less than ten (10) feet below the surface and into the well, and shall be sealed with concrete for the purpose of making the marker permanent. The API well identification number which consists of the state (47), county (001 through 109), and permit number shall be attached or stamped in a permanent manner to said monument; and such numbering shall be no less than one half (1/2) inch in height and detectable by any interested person approaching the marker. The erection of the marker shall in no way interfere with the bleeder pipe from the well where such pipe is required, or the vent or other device installed pursuant to W. Va. Code § 22-6-24. Such manner shall be accurately described on Form WR-38, "Affidavit of Plugging and Filling Well" (see subsection 13.10 below) as to time and manner of plugging and filling the well, and shall be approved by the Chief as a satisfactory landmark that may be used as such in the location of adjacent wells. Two (2) permanent reference points with courses and distances from the abandoned well shall be designated and prescribed on the plat required by subdivision 5.2.d above in the form prescribed by section 9 below, accompanying Form WW-4, "Notice of Intention to Plug and Abandon a Well," if any change in the plat is necessary, accompanying Form IV-38, "Affidavit of Plugging and Filling Well" (see subsection 13.10 below).

5.6. Parties Responsible. All contractors and drillers, including all service companies carrying on business or doing work in oil and gas fields in West Virginia, as well as lease holders and operators generally, shall take notice of and are hereby directed to observe and apply the provisions of W. Va. Code § 22-6 and this rule; and all contractors, drillers, service companies and operators shall be held responsible for violations thereof.

5.7. Evidence of Performance.

5.7.a. After the completion of the work authorized to be done by any permit required by W. Va. Code § 22-6-6, the permittee shall comply with filing requirements of W. Va. Code § 22-6-22 and section 12 of this rule.

5.7.b. In addition to the requirements of subdivision 5.7.a, following completion of plugging a well, the permittee shall also comply with the affidavit requirements of W. Va. Code § 22-6-23 and subsection 13.10 below.

Office of Oil and Gas

MAR 16 2026

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: 12-3-25
2) Operator's Well Number
WYO 61
3) API Well No.: 47 - 109 - 00061

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Bluestone Resources Inc.</u>	Name <u>Spartan Mining Co.</u>
Address <u>302 S Jefferson St.</u>	Address <u>PO Box 460</u>
<u>Roanoke, VA 24011</u>	<u>Brenton, WV 24818</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Bluestone Resources Inc.</u>
(c) Name _____	Address <u>302 S Jefferson St.</u>
Address _____	<u>Roanoke, VA 24011</u>
6) Inspector <u>Christian Porter</u>	(c) Coal Lessee with Declaration
Address <u>PQ Box 181</u>	Name _____
<u>Holden, WV 25625</u>	Address _____
Telephone <u>304-641-0079</u>	

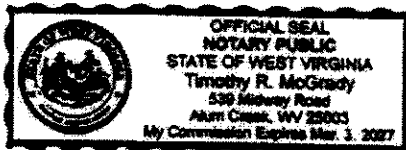
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Office of Oil and Gas
MAR 16 2026
WV Department of
Environmental Protection

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Boone East Development Co., LLC
By: [Signature]
Its: Manager & President
Address 300 Runway Right Way PO Box 261
Julesburg WV 25629
Telephone 304-369-8500

Subscribed and sworn before me this 9th day of December 2025
[Signature] Notary Public
My Commission Expires March 3, 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 depprivacyofficer@wv.gov.

03/27/2026

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$3.28
Total Postage	\$3.28
Total Postage & Fees	\$12.98

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OFFICE OF OIL AND GAS
601 57TH ST. SE
CHARLESTON WV 25304

Postmark: SPARTAN MINING MILL, MAR 11 2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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302 S JEFFERSON ST.
ROANOKE VA 24011

Postmark: SPARTAN MINING MILL, MAR 11 2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fee as applicable)	
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<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$3.28
Total Postage	\$3.28
Total Postage & Fees	\$12.98

Sent To: SPARTAN MINING COMPANY
PO BOX 460
BRENTON WV 24818

Postmark: SPARTAN MINING MILL, MAR 11 2025

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

03/27/2026

WW-4B

API No.	47-109-00061
Farm Name	New River & Pocahontas Coal Co.
Well No.	WYO 61

MAR 16 2026
 WV Department of
 Environmental Protection
 Office of Oil and Gas

**INSTRUCTIONS TO COAL OPERATORS
 OWNERS AND LESSEE**

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

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

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

WAIVER

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

Date: _____

By: _____

Its _____

03/27/2026

SURFACE OWNER WAIVER

Operator's Well
Number

WYO 61

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

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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,

Signature

Date

Name
By _____
Its _____
Date _____

Signature _____ Date **03/27/2026**

WW-9
(5/16)

API Number 47 - 109 - 00061
Operator's Well No. WYO 81

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

Operator Name Boone East Development Co., LLC OP Code 310294
Watershed (HUC 10) 0507010103 Quadrangle Pineville

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 _____)

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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) _____

-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.

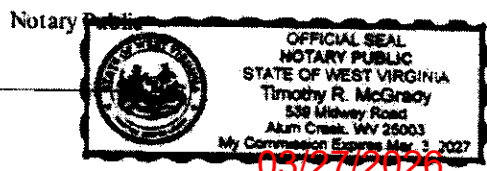
Company Official Signature [Signature]

Company Official (Typed Name) James A. Capucci

Company Official Title Manager & President

Subscribed and sworn before me this 9th day of December, 2025

[Signature]
My commission expires March 3, 2027



Proposed Revegetation Treatment: Acres Disturbed 0.5 Prev. vegetation pH

Line 2 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 0.5 Tons/acre

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Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Orchard Grass	6	Orchard Grass	6
Perennial Rye Grass	39	Perennial Rye Grass	39
Red Clover	17	Red Clover	17

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:

Comments:

Open to cover with coal all oil, gas, coal, fresh water all self water glass.

Title:

Inspector

Date:

3-11-26

Field Reviewed?

Yes No

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

Operator Name: Boone East Development Co., LLC
Watershed (HUC 10): 0507010103 Quad: Pineville
Farm Name: New River & Pocahontas Coal Co.

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

The only fluid involved in this operation is fresh water; therefore, no threat to groundwater contamination exists.

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

N/A

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

Brier Creek of Indian Creek is approximately 0.75 miles from location.

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.

N/A

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

No waste material will be used for deicing or fill material.

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

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

N/A

Signature: 

Date: 12-3-25

47-109-00061 Location & Access Map

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WW-7
8-30-06



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

API: 47-109-00061 WELL NO.: WYO 61

FARM NAME: New River Pocahontas Coal Co.

RESPONSIBLE PARTY NAME: Boone East Development Co., LLC

COUNTY: Wyoming DISTRICT: Baileysville

QUADRANGLE: Pineville

SURFACE OWNER: Bluestone Resources, LLC

ROYALTY OWNER: Bluestone Resources, LLC

UTM GPS NORTHING: 4155169.080

UTM GPS EASTING: 444661.85 GPS ELEVATION: 1,827'

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 X : Post Processed Differential ____

Real-Time Differential X

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]
Signature

Manager
Title

12/3/2025
Date

03/27/2026



P.O. Box 289
Cedar Bluff, Virginia 24609
Telephone (276) 345-9161
Telefax (540) 301-5996

March 11, 2026

WV DEP
Office of Oil and Gas
601 57th St. SE
Charleston, WV 25304

RE: Plugging Permit for 47-109-00061 (WYO 061)

Mr. Ward

Please find enclosed on behalf of Boone East Development Co., LLC, the permit application for plugging the Conventional Well WYO 061 (API 47-109-00061), located in Wyoming County, West Virginia. This well is being plugged due to the advancement of underground mining activities and to ensure the safety of such operations. Should you have any questions or concerns in regards to this application please feel free to contact me using the information provided below.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andy Hrovatic", is written over a horizontal line.

Andy Hrovatic
Ultra Production Company, LLC
Cell: 276-970-6431
Email: ahrovatic@ultraproductioncompany.com

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

plugging permit issued for 4710900061

1 message

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

Mon, Mar 23, 2026 at 10:57 AM

To: Alvis C Porter <alvis.c.porter@wv.gov>, Andy Hrovatic <ahrovatic@ultraproductioncompany.com>, mecook2@assessor.state.wv.us

To whom it may concern a plugging permit has been issued for 4710900061.

--

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

 **4710900061.pdf**
2329K

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