

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, October 15, 2025
WELL WORK PLUGGING PERMIT
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC. 46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for 0991 47-051-00578-00-00

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: EMERALD COAL CO.

U.S. WELL NUMBER: 47-051-00578-00-00

Vertical Plugging
Date Issued: 10/15/2025

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

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M 1743

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

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1051.09' LIBERTY

MARSHALL

CAMERON WV.PA

MEST VIRGIN A LAND RESOUR

ABOVE 1 BRIDGE STREET

MONONGAH, WV 26554

A. 13

DAVID RODDY 1 BRIDGE STREET MONONGAH WV 26554

STRADER GOWER 2525W ALEXANDER RD. VALLEY GROVE, WV 26060

See Exhibit No. 1 and MSHA 101-C Exemption

Marshall County Mine (MSHA ID# 46-01437)
MSHA 101-C Docket No. M-2016-016-C

Approximate Surface Elevation = 1051.09'

Approximate Bottom Of Coal = 284.00'

Approximate Depth = 767.09'

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WV Department of Environmental Protection

Strader Gower

09/10/2025

EXHIBIT No.1

From the experience and technology developed since 1970 in plugging oil and gas wells for the mining through, West Virginia Land Resources will utilize the following method to plug all future wells.

SOLID PLUG METHOD

Well Clean Out

- (a) If active well: Clean out to the total depth and plug back according to the state regulations to a minimum of 200 feet below the lowest minable coal seam.
- (b) If abandoned well: Clean out to the first plug 200 feet below the lowest minable coal seam.

Cement

- (a) Circulate through the tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below the minable coal seam to a point 100 feet above the minable coal seam.
- (b) Circulate through the tubing or drill steel an expanding Class A cement plug from 100 feet above the coal seam to the surface

A monument will be installed with API number and stating "solid plug."

Marshall County 101C

Docket No. M-2016-016-C

Office of Oil and Gas
SEP 15 2025
WV Department of

Environmental Protection

101C MSHA Petition Summary Marshall County Coal Ohio County Coal

I. Definitions

A. Diligent Effort is defined as pulling 150% casing weight and making at least 3 attempts. Assume casing is 3,000' when length is unknown.

II. Active Well

- A. Check for Methane
- B. Notify MSHA we are plugging an active well
- C. Kill Well
- D. Pull Sucker Rods and tubing
- E. Make Diligent Effort to Pull Casing
- F. If casing cannot be pulled...
 - i. Run Bond Log
 - 1. Discuss Action Plan with Mine Personal
 - ii. Notify MSHA that casing cannot be pulled
 - iii. Cut, rip, or perforate every 200'. First cut will be 200' above the end of casing up to 200' below Pittsburgh coal
 - MSHA can waive 200' cuts if bond log shows adequate material behind casing.
 - iv. Cut, Rip, or Perforate every 50' from 200' below Pittsburgh to 100' above Pittsburgh (see Appendix A).
 - v. Cut, Rip, or Perforate every 5' from 10' below Pittsburgh Coal to 10' above Pittsburgh (see Appendix A).
- G. Pump Class A Cement from TD to 200' below Pittsburgh
- H. Pump Thixotropic Cement from 200' below Pittsburgh to 100' above
- I. Pump Class A cement from 100' above Pittsburgh to surface.
- J. Install Well Marker

III. Abandoned Well

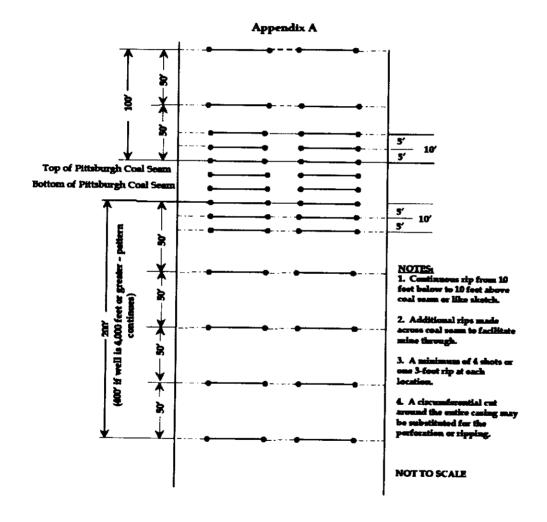
- A. Check for Methane
 - i. Notify MSHA if actively producing methane
- B. Kill Well
- C. If well is less than 4,000' deep, clean out well 220' below Pittsburgh (cleanout an extra RECEIVED Office of Oil and Gas
- D. If well has casing, make diligent effort to pull casing as defined above.
- E. If casing cannot be pulled...

SEP 15 2025

- i. Run Bond Log
- ii. Notify MSHA that casing cannot be pulled

- WV Department of Environmental Protection
- iii. Cut, Rip, or Perforate every 50' from 200' below Pittsburgh to 100' above Pittsburgh (see Appendix A).

- iv. Cut, Rip, or Perforate every 5' from 10' below Pittsburgh Coal to 10' above Pittsburgh (see Appendix A).
- F. Pump expanding cement under 200 PSI to form a plug 200' below Pittsburgh
- G. Verify plug
- H. Pump Class A Cement from verified plug to 200' below Pittsburgh
- I. Pump Thixotropic Cement from 200' below Pittsburgh to 100' above
- J. Pump Class A cement from 100' above Pittsburgh to surface.
- K. Install well marker



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***If the depth is greater than 4,000 feet, all 200' number change to 400' respectively

MUD TANKS NO PITS DIVERSION DITCH (IF NEEDED) SEDIMENT CATCH BASIN COMPACTED & LAYED MUD PUMP ENGINE -- GENERATOR FUEL TANK TYPICAL EQUIPMENT LAYOUT 3. CUT MULCHED IF SLOPE LESS THAN 1 TO 1 HYDROMATIC TANK TYPICAL DRAWING OF WELL PLUGGING SITE PLAN MUD PUMP. 0 일 다 ORIGINAL GROUND KEYWAYED DOG HOUSE (COMBO TRAILER) O WATER TANK DRAW WORK Ή MUD PiT ROTARY TABLE SUB STRUCTURE SHALE SHAKER CENTER TUB PIPE TUB HAY BALES OR HAY BALES OR HECEINED Grand Gas SEDIMENT CATCH BASIN SEP 15 2025 ROAD & BERM WV Department of Environmental Protection

In the matter of: The Marshall County Coal Company Marshall County Mine I.D. No. 46-01437

Petition for modification

Docket No. M-2016-016-C

PROPOSED AMENDED DECISION AND ORDER

On May 31, 2016, a Petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to The Marshall County Coal Company's Marshall County Mine located in Marshall 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 requests to amend their current PDO granted on May 15, 1989, under Docket M-1988-199-C formerly known as McElroy Coal Company, McElroy Mine to the alternate method stipulated in the April 29, 2013 PDO granted to ACI Tygart Valley, Leer Mine.

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:

§ 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 replugging, 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 July 27, 2016, MSHA personnel conducted an investigation of the Petition and filed a report of their findings with the Administrator for Coal Mine Safety and Health. The modification granted under Docket No. M-1988-199-C will be superseded and replaced by this amended modification granted under Docket No. M-2016-016-C after this Proposed Amended Decision and Order becomes final.

The mine is represented by United Mine Workers of America (UMWA), AFL-CIO, CLC-1638 with miners' representatives and did not file any questions or comments on behalf of the miners.

After review of the parties' submissions and Joint Motion for Settlement, the following Decision and Order is issued.

FINDINGS OF FACT AND CONCLUSIONS OF LAW

The Marshall County Mine employs approximately 712 miners and produces approximately 50,000 tons of bituminous coal per day from the Pittsburgh #8 coal seam with an average mine height of 66 inches. At this time, there are no coal seams being mined below (i.e., stratigraphically down section from) the Pittsburgh seam. The mine is accessed through 2 slope and 12 air shafts. The mine operates 3 production shifts per day, 5 days per week, on five working sections, two longwall and three advancing gate sections utilizing continuous mining machines. The mine liberates 11,659,131 cubic feet of methane on a daily basis.

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 #8 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 Decision and Order reflects the settlement between the Petitioner's proposal and the amended terms and conditions first set forth by MSHA, under the terms set forth below. The major points of compromise include the following:

1. Making a diligent effort to remove the casing to the original total depth. If all of the casing can be removed, or if the well contains no casing, the operator shall

prepare the well for plugging, and use seals described below, for wells less than 4,000' depth to seal to 200 feet below the coal seam to be mined, or the lowest mineable seam, whichever is lower, or for wells 4,000' deep or greater, seal 400 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower. MSHA retains the right to review and direct the operator's sealing protocol, in the event geologic or well conditions require further measures. As used in this Proposed Amended Decision and Order, in order to make a diligent effort to remove the casing, the operator shall pull a minimum of 150% of casing string weight and/or have made at least three attempts to spear or overshot to grip the casing for the required minimum pull effort. Where casing string length is unknown, a 3,000' casing string will be assumed. The operator shall keep a record of these efforts, including casing length and weights, and make available for MSHA review. The District Manager reserves the right to require additional measures in efforts to remove casing, as appropriate.

- 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. MSHA and the operator will work cooperatively to establish a communications protocol, so that the operator may contact the District Manager while working outside normal working hours.
- 3. Cement. Cement is specified to be used as a plugging material, instead of an unnamed "approved equivalent," as requested by Petitioner.
- 4. Wells vary in depth. The terms and conditions required by MSHA will require operator to prepare these wells for safe intersection by making a diligent effort to remove casing to the total depth if possible, then: cleaning to and setting a plug at least 200' below the coal seam to be mined or lowest mineable seam, whichever is lower; or for wells 4,000' or greater, to at least 400 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower. The operator will then plug from either the attainable bottom or the newly installed plug, as applicable, by pumping expanding cement slurry and pressurizing to at least 200 psi. If the total depth is not reached and casing cannot be removed, these alternative methods included in this proposed decision and order have proven to be safe and effective when properly implemented.
- Notification Where the operator is required to notify the District Manager
 pursuant to the terms of this Proposed Decision and Order, the method of
 notification will be set forth in the cut-through procedures for each well. The

District Manager agrees to provide a number wherein he or his designee is available at all times.

Therefore, the terms and conditions as amended will at all times guarantee no less than the same measure of protection afforded the miners under 30 C.F.R. § 75.1700 for all wells regardless of depth. On the basis of the Petition, comments received, the findings of MSHA's investigation, and the parties' Joint Motion for Settlement, the Marshall County Coal Company is granted a modification of the application of 30 C.F.R. § 75.1700 to its Marshall County 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 The Marshall County Coal Company's Marshall County Mine is hereby:

GRANTED, subject to the following terms and conditions:

1. <u>DISTRICT MANAGER APPROVAL REQUIRED</u>

- 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, the person at the mine who is in charge of health and safety at the mine, 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, electronic or otherwise, 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 the well is actively producing gas.

(1) A diligent effort shall be made to remove all the casing in the well and clean the well to 200'below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, or for wells 4,000' or greater, clean the well to 400'below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower.

If 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 coal seam to be mined, 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 coal seam to be mined. Wells of this greater depth are under greater pressure, so the 400 feet requirement provides greater protection for miners. The operator shall make a diligent effort to 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.

Where active wells which are no longer producing are being cleaned and prepared subject to this order, the operator must: 1) attempt to remove all of the casing using a diligent effort, and comply with all other applicable provisions in this order, or 2) if the casing cannot be removed from the total depth, must be filled with cement from the lowest possible depth to 200 feet below the seam to be mined or lowest mineable coal seam, whichever is lower for wells less than 4,000', or 400 feet below the seam to be mined or lowest mineable coal seam, whichever is lower, for wells 4,000' or greater, and the other applicable provisions in this order still apply, or 3) if the casing cannot be removed it shall be perforated from 200 feet below the coal seam to be mined, or lowest mineable seam, whichever is lower, or 400 feet below the seam to be mined or lowest mineable coal seam, whichever is lower, for wells 4,000' or greater, and the annuli shall be cemented or otherwise filled, and the other applicable provisions in this order still apply.

(2) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if appropriate, a deviation survey, and a gamma survey for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, 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. Thereafter, the well should be plugged to the attainable bottom, at least 200 feet below the coal seam to be mined or lowest mineable seam, whichever is lower, 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 sufficient intervals 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 the coal seam to be mined 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. For perforations in the Pittsburgh 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.

Jet/sand cutting is one method for ripping or perforating casing with three or more strings of casing in the Pittsburgh coal seam in preparation for mining. This method uses compressed nitrogen gas and sand to cut the well casings as outlined in Appendix A. On active wells cuts start at 200' above the bottom of the casing at 200' intervals, to 200' below the bottom of the Pittsburgh coal seam where Appendix A outlines cut interval minimums.

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 lowest mineable 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 coal seam to be mined, or lowest mineable seam, whichever is lower, 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 coal seam to be mined, or lowest mineable seam, whichever is lower, (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 lowest mineable 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 4inch 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 lowest mineable 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.
- (2) The operator shall use a geophysical sensing device to locate any casing which may remain in the well.
- (3) 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 lowest mineable 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.

- (4) 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 lowest mineable 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.
- (5) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if applicable, a deviation survey, and a gamma log for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or lowest mineable 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.
- (6) 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.
- (7) 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 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.

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.
- 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 available 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 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 work with 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 replugging 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.

SUBJECT TO THE ABOVE TERMS AND CONDITIONS, and 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 The Marshall County Coal Company's Marshall County Mine is hereby GRANTED.

DISTRIBUTION

Winfield Wilson Office of the Solicitor, U.S. Dept. of Labor 201 12th St S, Suite 401 Arlington, VA 22202

Christopher D. Pence Hardy Pence PLLC 500 Lee Street East, Suite 701 Charleston, WV 25301

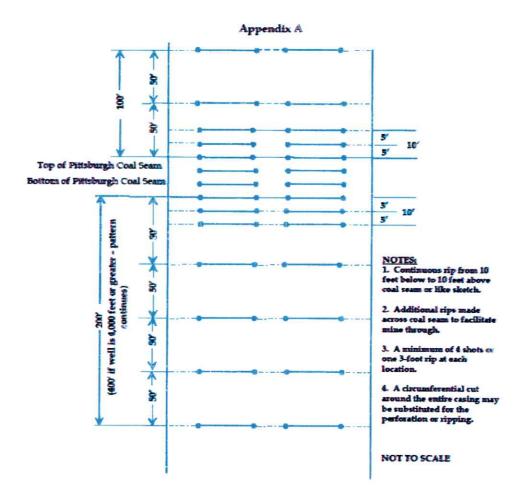
Stephen Gigliotti
Coal Mine Safety & Health, Safety Division
Mine Safety and Health Administration, U.S. Dept. of Labor
201 12th St S, Suite 401
Arlington, VA 22202

Sheila McConnell
Office of Standards Regulations and Variances
Mine Safety and Health Administration, U.S. Dept. of Labor
201 12th St S, Suite 401
Arlington, VA 22202

Jay Hores Marshall County Coal Company 1 Bridge Street Monongah, WV 26554

Greg J. Norman, Director West Virginia Office of Miners' Health Safety & Training #7 Players Club Dr. Suite 2 Charleston WV 25311

Jerry M. Blake UMWA Representative, Marshall County Coal Mine 902 Wheeling Avenue Glen Dale, West Virginia 26038



WW-4A	
Revised	6-07

1) Date:	AUGUST	AUGUST 24, 2025		
2) Operator's Well Number	M-179	43		
3) API Well No.: 47 -	051		00578	

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

(a) Name Address	JOHN F ARTIMEZ JR ET AL	3) (a) Coal Operator		
Address	OOTHY EVENTIMIEE ON ET VIE	(C/O LANCE JOHNSO	Name	WEST VIRGINIA LAND RESC	DURCES INC.
	121 WHITE BELL CIR	CLE	Address	1 BRIDGE STREET	
	WELLSBURG, WV 26	070	_	MONONGAH, WV 26554	
(b) Name			(b) Coal Ow	vner(s) with Declaration	1
Address			Name		
	*		Address		
(c) Name			Name	-	
Address			Address		
6) Inspector	STRADER GOWER		(c) Coal Les	ssee with Declaration	
Address	2525W ALEXANDER	RD.	Name		
	VALLEY GROVE, WV	26060	- Address		
Telephone	(304) 993-6188	St. 11 Land St. Control of the S	_		
	3 111111111111111111111111111111111111		_		
However, y	ou are not required to take any e that under Chapter 22-6 of t	y action at all. he West Virginia Code	e, the undersigned well well with the Chief of the	operator proposes to file or has fi e Office of Oil and Gas, West Vii	he instructions on the reverses side.
Protection, the Applica	with respect to the well at the	mailed by registered ay of mailing or delive	or certified mail or del	livered by hand to the person(s)	office of Oil
Protection, the Applica certain cire	with respect to the well at the ation, and the plat have been	mailed by registered ay of mailing or delive	or certified mail or del ry to the Chief.	livered by hand to the person(s)	form WW-6. Copies of this Notice,
Protection, the Applica certain circ	with respect to the well at the ation, and the plat have been umstances) on or before the de TREVOR L HAYES ry Public Official Seal	mailed by registered ay of mailing or delive Well Operator	or certified mail or del ry to the Chief. WEST VIRGINIA LAN	D RESOURCES INC.	form WW-6. Copies of this Notice,
Protection, the Applica certain circ	with respect to the well at the tion, and the plat have been umstances) on or before the distribution of t	mailed by registered ay of mailing or delive Well Operator By:	or certified mail or del ry to the Chief. WEST VIRGINIA LAN JAY HORES	D RESOURCES INC.	Office of Oil and Gas
Protection, the Applica certain circ	with respect to the well at the tion, and the plat have been umstances) on or before the distribution. TREVOR L HAYES by Public Official Seal ate of West Virginia	mailed by registered ay of mailing or delive Well Operator By: Its:	or certified mail or del ry to the Chief. WEST VIRGINIA LAN JAY HORES PROJECT ENGINEER	D RESOURCES INC.	Office of Oil and Gas SEP 15 2025
Protection, the Applica certain circ	with respect to the well at the tion, and the plat have been umstances) on or before the distribution of t	mailed by registered ay of mailing or delive Well Operator By: Its:	or certified mail or del ry to the Chief. WEST VIRGINIA LAN JAY HORES PROJECT ENGINEER 6126 ENERGY ROAD	D RESOURCES INC.	Office of Oil and Gas SEP 15 2025

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.

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5270 02	Extra Services & Fees (check box, acid fee segarprograme) Return Receipt (electronic) Certified Meil Restricted Delivery Adult Signature Required Adult Signature Required Adult Signature Required	Postmark Here
0770 5	Postage \$2.72	09/11/2025
9589	Sentinet Strepland for White Bell Circle Chi. Sing 213 bura, WV 260 PS Form 3800, January 2023	le M-1743 70 See Reverse for Instructions

RECEIVED
Office of Oil and Gas

SEP **15** 2025

WV Department of Environmental Protection

API No.	47-051-00578
Farm Name	W. J. Bryan
Well No.	M-1743

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
has examined this proposed plugging work order	wner/ lessee/ of the coal under this well location r. The undersigned has no objection to the work proposed to be for has complied with all applicable requirements of the West
Date: 10/10/25	Jay Hores By: Jay Hores Its Project Engineer

API Number 47 -	051	-	00578	
Operator's Well No.				

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code
Watershed (HUC 10) FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK Quadrangle CAMERON WV,PA
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No 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 Tanks, see attached letter
Will closed loop systembe used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? N/A
Permittee shall provide written notice to the Office of Oil and Cas 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 o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics of oil and Gas office of oil and Gas
Company Official Signature SEP 15 2025
Company Official (Typed Name) Jay Hores WV Department of
Company Official Title Project Engineer Environmental Protection
Subscribed and sworn before me this 5 day of SEATEMBER , 20 25 Notary Public Official Seal State of West Virginia My commission expires 4/14/2028 My commission expires 4/14/2028

Operator's Well No.

Proposed Revegetation Treatment: Acres Disturbed 1

Preveg etation pH

Lime 3

Tons acre or to conect to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500

lbs acre

Mulch 2

Tons acre

Seed Mixtures

Temporary

Permanent

Seed Type

lbs acre

Seed Type

lbs acre

Seed Mix in accordance with WVDEP Oil

Seed Mix in accordance with WVDEP Oil and Gas, Erosion and Sediment Control

and Gas, Erosion and Sediment Control

Field Manual

Field Manual

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 Strader Gower

Comments:

RECEIVED
Office of Oil and Gas

SEP 15 2025

WV Department of Environmental Protection

Title. Oil & Gas Inspector

Date: 09/10/2025

Field Reviewed?

 $\boldsymbol{X} = \{Y_i\}$

)No

N/A

Pa	ige	of	
API Number 47	051	 00578	
Operator's Well No.			

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

	ershed (HUC 10); FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK Quad: CAMERON WV,PA
П	ı Name:
	List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.
	Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.
	List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.
	RECEIVED Office of Qil and (
	Summarize all activities at your facility that are already regulated for groundwater protection. SEP 15 202
-	WV Department of Environmental Protection

WW-9- GPP	81/8	Page of
Rev. 5/16	N/A	API Number 47 - 051 - 00578 Operator's Well No
	· · · · · ·	
(D 11 () ()		
6. Provide a statement that no	waste material will be used for deicing	or fill material on the property.
7. Describe the groundwater	protection instruction and training to b	e provided to the employees. Job procedures shall
provide direction on how to	prevent groundwater contamination.	
	,	
8. Provide provisions and free	quency for inspections of all GPP elemen	ts and equipment
The state of the s		and equipment.
		RECEIVED
		Gas Office of Oil and
		SEP 15 2025
		WV Department of Environmental Protection
		Livironmental Protection
Signature:		

Date:

WEST VIRGINIA LAND RESOURCES

WEST VIRGINIA LAND RESOURCES

46226 National Road St. Clairsville, OH 43950

phone: 304.843.3565 fax: 304.843.3546

e-mail: JayHores@acnrinc.com

JAY HORES
Project Engineer

September 5, 2025

Department of Environmental Protection Office of Oil and Gas 601-57th Street Charleston, WV 25320

To Whom It May Concern,

As per the Division of Environmental Protection, Office of Oil and Gas request, West Virginia Land Resources submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil & Gas Pit Waste Discharge Application), West Virginia Land Resources will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP facilities number U-0033-83, O-1001-00, U-1035-91U-46-84, U-78-83, O-1044-9, or U-100-83.

Sincerely,

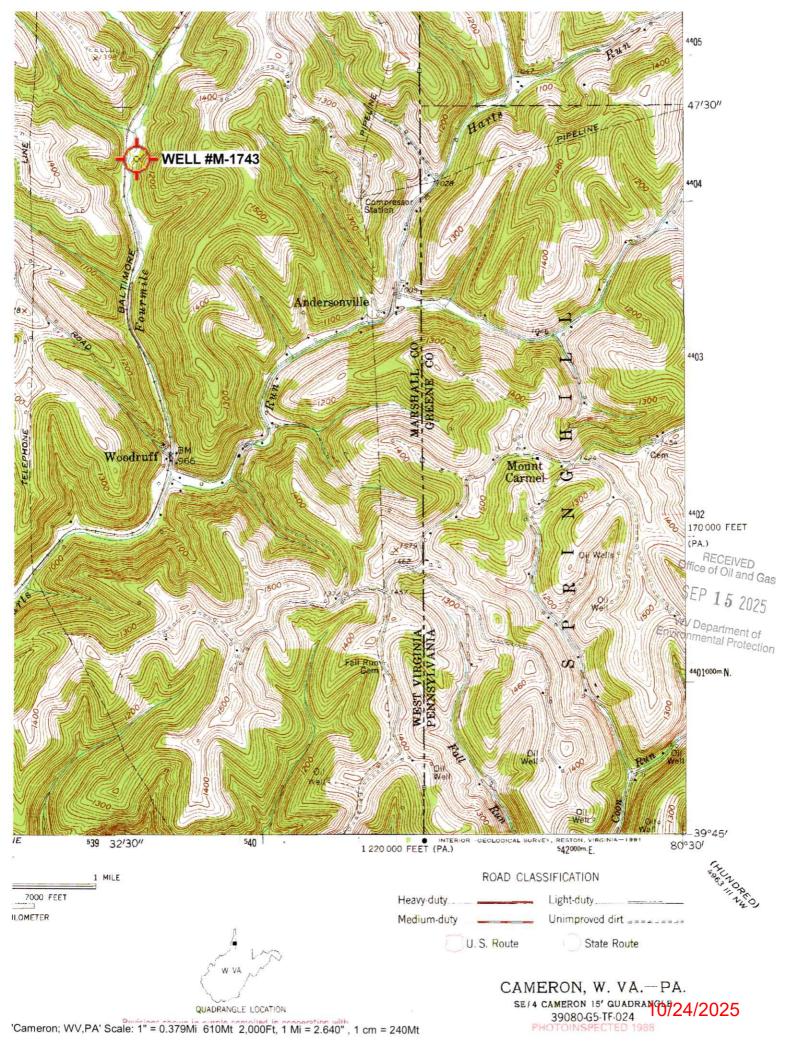
RECEIVED Office of Oil and Gas

SEP 15 2025

WV Department of Environmental Protection

Jay Hores

Project Engineer





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-005	78 WELL NO.:	M-1743
FARM NAME: W. J. BR	YAN	
RESPONSIBLE PARTY NAME:	VEST VIRGINIA LAND RE	SOURCES INC.
COUNTY: MARSHALL	DISTRICT: L	IBERTY
QUADRANGLE: CAMERO		
SURFACE OWNER: JOHN E AR		NCE JOHNSON)
ROYALTY OWNER:		
UTM GPS NORTHING: 4,40	4,412 m	
UTM GPS NORTHING: 4,40 UTM GPS EASTING: 539,	353 m GPS ELEVAT	_{rion:} 320 m
height above mean sea leve 2. Accuracy to Datum – 3.05	a plugging permit or assigned will not accept GPS coordinate 17 North, Coordinate Units: mel (MSL) – meters.	API number on the tes that do not meet
 Data Collection Method: Survey grade GPS X: Post Proc 	essed Differential	RECEIVED Office of Oil and Gas
Real-Tim	ne Differential X	SEP 15 2025
Mapping Grade GPS: Post P	rocessed Differential	WV Department of Environmental Protection
	Γime Differential	
4. Letter size copy of the top I the undersigned, hereby certify this d belief and shows all the information re prescribed by the Office of Oil and Ga	quired by law and the regulati	knowledge and
13.7e	PS 2002	AUGUST 24, 2025
Signature	Title	Date

OP-77	(04/19)
OI	,

Record No _____

State of West Virginia

Department of Environmental Protection								
			47-051-00			7		
This is to acknow		ne well: API no.	47-051-00	370		1		
District Liberty 5 and 6								
Well No	M-1743 / 09	991	Farm name	Emerald Coal Co	J	J		
is hereby trans	ferred from:					٦		
The transferor	The transferor Company: Leatherwood, LLC Code #494523160 Address 275 Technology Drive, Suite 101, Canonsburg, PA 15317							
Code #49452	3160	Address 275 T	echnology Drive	e, Suite 101, Car	ionsburg, PA 15317	_		
To:						٦		
The transferee				Resources, Inc.		-		
Code #49452	5178	Address 1 Brid	ge Street, Mon	ongah, WV 2655	4	<u></u>		
transferee bel 10.3.a.1. Transfer appro	low, shall sen	ve as certificati	on of the assign	ment or the trains	7 form by the transfero fer identified in 35 CSF 22-10-7 and 35 CSR 4 -			
The transferee agent is:	has registered a	and designated a	n agent on form OF	2-1, which is on file w	ith the Office of Oil and Ga	s. The		
Designated age	ent (name)	David Roddy				RECEIVED		
Address:		1 Bridge Stre	et, Monongah, \	NV 26554	0	ffice of Oil and Gas		
The transferee	has bonded the	said well by (che	eck one):			SEP 15 2025		
Se	curities	Cash	Sure	ety bond X Let				
Identified by:		_			V Envi	W Department of mental Protection		
	50,000			Effective date :	10/5/2020	The Ital Protection		
Issuing authorit		ty National Ins	surance Compar	ny Id. No:	N-6000917			
My Commission Taken, subscrit Notary Public	bed and sworn	er A. Kall 8/2028	day of	ESPENT (FEBRUARY 20 d5		Notary Public bunty anuary 18, 2028 of 1266666		
My Commissio	in Expires	17 01		{	OFFICIA NOTARY	PUBLIC		

OP-7

OP-77 (05-04)	00 3 * 08440 640 04 9 04 04 25 5001					Re	ecord No.		
/"	My Debatment of	Department	ent of E Charl <u>e</u>	ston, WV 2	al Protection				
This is to acid	wiedge that t	he well: API no.		47-051-0057	8 🗸				
District	Liberty Dist.,	Marshall Co.							
Well No		Farm name Emerald Coal Co (J. Moore)							
Is hereby trans	ferred from:			•					
The transferor		Company: Tri-C	ounty (Oil and Gas,	nc.				
Code # 306725		Address 1800 V	Vashin	gton Road, P	ittsburgh, PA 1	5241			
To:	······································								
The transferee		Company: Leath	erwood	i, Inc.					
Code # 494476	721	Address 1800 W	/ashing	ton Road, Pi	tsburgh, PA 15	5241			
		ibility for any nonc ued after review o							
compliance by I	producing or plu	uction for the perion gging within 120 d and designated ar	lays of	approval of the	ne application	_ Yes	No		
agent is:	nas registereu i	and designated at	i agent	On Ionni Or		ine with th	ie Onice or C	ii and Gas.	THE
Designated age	ent (name)	Terry L. Suder						RECEIVED Office of Oil and	
Address:		120 Franklin Fa	ms Ro	ad, Fairmont	WV 26554	•		SEP 15 2	n25
The transferee	has bonded the	said well by (che	ck one):	•				
Sec	Securities Cash Surety bond X Letter of credit Environmental Protect								
Identified by:									
Amount: \$5	50,000				Effective dat	e :	12-07-2005		
Issuing authorit	y: Travelers	Casualty & Surety	of Am	erica	ld. No: 1046	47099			
		· · · · · · · · · · · · · · · · · · ·	Transfe	eror: Tri-Cou	nty Oil and Gas	i, Ing.			==

Amount:	\$50,00	0	Effective date :	12-07-2005
Issuing auth	ority:	Travelers Casualty & Surety of America	ld. No: 104647099	

By: Terry L. Suder, P.O.A. Ton Pon

Its: Agent

___ day of <u>November</u> 2007 Taken, subscribed and sworn before me this 5+h. Notary Public

My Commission Expires

Transferee: Leatherwood, Inc.

By:

Terry L. Suder

Its:

General Manager

_day of <u>November</u> 2007 Taken, subscribed and sworn before me this 54h.

Notary Public Janice Lavis

My Commission Expires June 23, 2009

compaon wealth of Pennsylvania Notarial Seal Janice L. Davis, Notary Public per St. Clair Twp., Alleghany County Commission Expires June 23, 2809

Notarial Seal
Janice L. Davis, Notary Public
Usper St. Clair Top., Allegheny County
Wey Commission Expired June 22, 2009

per, Pennsylvania Association of Notaries

Division of Environmental Protection This is to acknowledge that the well: API no. Nitro, WV 25143 47-051-00578 Liberty District Farm name Well No 600991 is hereby transferred from: Company: Nicole GAS PRODUCTION, LTD The transferor Address 513 E. Rich Street, Suite 208 Columbus OH 43215 Code # 34743 To: Company: Tri-Courty Oil + GAS, INC.
Address 16 Boggess Street Buckharror, WV 26201 The transferee Code # 49800 Transfer approval and responsibility for any noncompliance matter not resolved in this document will be addressed in the thirty day circular that will be issued after review of your application for transfer, or as otherwise set forth by agreement with the Chief. If this well has been out of production for the period in excess of 12 months, the transferee agrees to bring the well into compliance by producing or plugging within 120 days of approval of the application. Yes ____No. The transferee has registered and designated an agent on form OP-1, which is on file with the Office of Oil and Gas. The agent is: 7. Tri-Courty Oil + Ens. 22c. 16 Designated agent (name) Address: The transferee has bonded the said well by (check one): Letter of credit Cash L Surety bond Securities identified by: # 50,000.00 6-23-93 Effective date: Issuing authority: Huntington Notional Book of WV. P846 ld. No: Office of Oil and Gas SEP 15 2025 Taken, subscribed and sworn before me this ____13+14 day of MRCH WV Department of Notary Public_ Environmental Protection NOTARY PUBLIC, STATE OF GHIL My Comission Expires..... Tri- County Oil + Gas, INC. Section 14703 RC ree: Notary Public _____ My Comission Expires _

10/24/2025

State of West Virginia

OP-77 (11-92)

RECORD NO. 41862

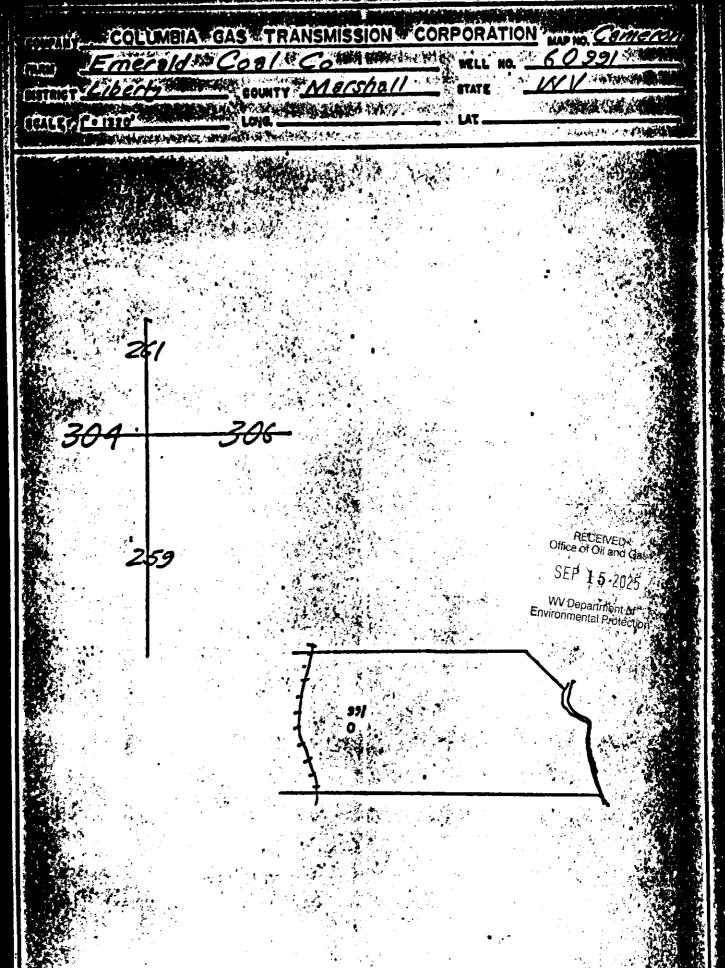
STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION NITRO, WEST VIRGINIA 25143

THIS IS TO ACKNOWLEDGE THAT THE WELL	. 107 110
DISTRICT: Liberty	47-051-00578
WELL NO.: 600991 2.	ARM NAME W. J. Bryan
IS HEREBY TRANSFERRED FROM:	
THE TRANSFEROR COMPANY: Columbia Natu	ral Resources, Inc.
CODE # 10460 ADDRESS: 900 Pennsylva	nia Avenue, Charleston, WV 25302
	The mendes one restons we 23302
TO: THE TRANSFEREE COMPANY: Nicole Gas P	roduction, Ltd.
CODE # 34743 ADDRESS: 513 East Ric	h Street, Suite 306, Columbus, OH 43215
THE TRANSFEREE BY THIS DOCUMENT IS A COMPLIANCE WITH THE PROVISIONS OF CH CODE OF 1931, AS AMENDED AND ALL RUL THEREUNDER, FOR THE LISTED WELL.	CCEPTING ALL RESPONSIBILITY FOR APTER 22B et seq., OF THE WEST VIRGINIA ES AND REGULATIONS PROMULAGATED
THE TRANSFEREE HAS REGISTERED AND DE	Signated an agent on form op-1, who is
DESIGNATED AGENT (NAME) W. Dan Roll,	
ADDRESS: 701 Viand Street, Point Pleasa	nt. WV 25550 HECEIVED Office of Oil and Gas
WHICH IS ON FILE WITH THE OFFICE OF	OIL & GAS.
THE TRANSFEREE HAS BONDED THE SAID W	ELL BY (CHECK ONE): SEP 15 2025
SECURITIES CASH SURETY	140/5
Amount: Ef	PECTIVE DATE:
ISSUING AUTHORITY:	ID. NO.
OFFICIAL SAL TYS: WOTAN PUBLIC TYS: WOTAN PUBLIC TYS: WATE STATE OF THE PUBLIC TYS: KATHY J. WATEON	President THIS 36 DAY OF January
TRANSFER BY:	AVIIIDIVAL (VV
	OR: Columbia Natural Resources, Inc. Vice President

· t	LATITUDE 39° 47' 30"
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	Environmental Profection
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Company	
Quad <u>CAMERON</u> 7/2' County <u>MARSHALL</u> District <u>LIBERTY</u>	WELL LOCATION MAP File No. <u>Q5/- 578</u>

1000

10/24/2025



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Ine manufacturers Light & Meat Co.											
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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

Tuesday, July 1, 2025 NOTICE OF FINAL ACTION TO TRANSFEREE

WEST VIRGINIA LAND RESOURCES, INC. 46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

This is to inform you that wells on the enclosed document met the transfer criteria and were transferred to your bond. Wells that did not meet transfer criteria were not transferred.

You are by this letter being informed that you have accepted all responsibility for compliance with the provisions of Chapter 22 et seq. of the West Virginia Code of 1931, as amended, and all the rules and regulations promulgated thereunder, for the wells transferred to your bond.

If you have any questions concerning this notice, contact this office at the above address. Please include the transfer number, effective date, and the API number(s) of the well(s) in question in your correspondence.

Thank you in advance for your cooperation.

RECEIVED Office of Oil and Gas

SEP 15 2025

WV Department of Environmental Protection

James A. Martin

Chief

Promoting a healthy environment.

County	Marshall	Marshall	Marshall	Marshall
Operator	WEST VIRGINIA LAND RESOURCES, INC.	WEST VIRGINIA LAND RESOURCES, INC.	WEST VIRGINIA LAND RESOURCES, INC.	LETCHER 1 WEST VIRGINIA LAND RESOURCES, INC.
WellName	1508	0991	1975	FLETCHER 1
WellStatus	AB	A C	AB	AC AC
WellType	VERT	VERT	VERT	VERT
АРІ	47-051-00569	47-051-00578	47-051-00583	47-051-01106
Transfer# Transfer Status	156320 Approved	156320 Approved	156320 Approved	156320 Approved
Transfer#	156320	156320	156320	156320

Office of Oil and Gas
SEP 15 2025
WV Department of Environmental Protection



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

plugging permit issued 4705100578

1 message

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

Wed, Oct 15, 2025 at 11:15 AM

To: Strader C Gower <strader.c.gower@wv.gov>, ebuzzard@marshallcountywv.org, "Hores, Jay" <JayHores@acnrinc.com>

To whom it may concern, a plugging permit has been issued for 4705100578.

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



4705100578.pdf 3126K