



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
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Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, July 14, 2026

WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Partial Plug

DIVERSIFIED PRODUCTION LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for CO-8BR
47-081-01444-00-00

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
Chief

Operator's Well Number: CO-8BR
Farm Name: CRAB ORCHARD
U.S. WELL NUMBER: 47-081-01444-00-00
Coal Bed Methane Well Partial Plug
Date Issued: 7/14/2026

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 May 21, 2026
2) Operator's
Well No. CO-8BR
3) API Well No. 47-081 -0144

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil ☐ / Gas ☒ / Liquid injection ☐ / Waste disposal ☐
{If "Gas, Production ☒ or Underground storage ☐} Deep ☐ / Shallow ☒
- 5) Location: Elevation 2346.38' Watershed UNT of Millers Camp Branch
District Trap Hill County Raleigh Quadrangle Eccles 7.5'
- 6) Well Operator Diversified Production, LLC 7) Designated Agent Chris Veazey
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Murdock Howard Name Next LVL Energy (Diversified Owned)
Address PO Box 140 Address 104 Helliport Loop Rd
Oak Hill, WV 25901 Bridgeport, WV 25330

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

See Attached

See Exhibit 1 and MSHA 101-C Exemption
Harrison County Mine (MSHA ID# 46-01318)
MSHA 101-C Docket No. M-2016-019-C

Approximate Surface Elevation = 2346.38'
Approximate Bottom of Coal = 1129'
Approximate Depth = 1226.24'

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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

Murdock Howard

Date

6/29/26

07/17/2026

Plugging Prognosis

API #: 47-081-01444

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20" @ 18' - CTS

13-3/8" @ 563' - Cemented w/ 1050 sks - ETOC @ Surface using 1.18 yield and 19" hole

9 5/8" @ 843' - Cemented w/ 536 sks - ETOC @ Surface using 1.18 yield and 12-3/4" hole

7" @ 1015' - Cemented w/ 200 sks - ETOC @ Surface using 1.18 yield and 9" hole

TD listed as 1246'

Estimated lateral

- o Pocahontas #3: 32,802' x 4.75" Hole ID (.0219 bbl/ft) = 898 BBL w/ 125% excess

Fresh Water: None Reported - Plugging Solid

Salt Water: None Reported - Plugging Solid

Gas Shows: None Reported

Oil Shows: None Reported

Coal: 776'-783', 1110'-1114', 1117'-1119', 1128'-1129'

Elevation: 2355.24' - From WR-35

MH
6/24/26

1. Notify Inspector Murdock Howard @ (681) 990-2568, 48 hrs prior to commencing operations.
2. Record pressure on csg/tbg.
3. If possible, blow down well.
4. TOOH w/ rods and tbg.
5. TIH w/ 2-7/8" tbg to just above lowest coal zone, approximately 1127'.
6. Pump 10 bbl water (150% vertical capacity) to ensure lateral entrance is open and taking fluid.
7. Pump 898 BBL (125% lateral capacity) bentonite gel until wellbore is filled.
8. Pump 10 bbl water (150% vertical capacity).
9. The well will be left open until it is released to be plugged and abandoned.
10. If necessary, reclaim site.
11. **Once mine through operations are completed, the well will be plugged using the following operations. It is unknown what the time frame for this will be. If the permit expires, a new plugging permit will be applied for to permanently plug this well.**
12. MIRU service rig and ancillary equipment.
13. Record pressures on csg/tbg.
14. If any pressure and possible, blow down well. Kill w/ gel water if necessary.
15. TOOH w/ any rods/tbg in well.
16. Proceed to load wellbore with 898 BBL (125% capacity) gel until wellbore is filled.
17. TIH w/ tbg to 1179'. Pump 1179' Class L/Class A cement plug from 1179' to Surface (Solid Plug). Approximately 241 sks @ 1.18 yield. Top off as needed.
18. Reclaim location and well road to WVDEP specifications and erect P&A well monument. **A small quantity of steel turnings, or other detectable material, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.**

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4708101444P

1-19 pgs

In the matter of:
The Harrison County Coal Company
Harrison County Mine
I.D. No. 46-01318

Petition for Modification

Docket No. M-2016-019-C

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 Harrison County Coal Company's Harrison County Mine located in Marion County, West Virginia. The Petitioner filed the petition to permit an alternative method of compliance with the standard with respect to vertical to horizontal oil and gas wells into the underground coal seams. The petitioner request to amend their current Proposed Decision and Order (PDO) granted by MSHA on July 13, 2001, under Docket M-2001-015-C formerly known as Consolidation Coal Company, Robinson Run No. 95 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 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

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wells, and procedures after approval has been granted to mine through a plugged or re-plugged well.

Between July 18, 2016 and August 8, 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-2001-015-C will be superseded and replaced by this amended modification granted under Docket No. M-2016-019-C after this Proposed Amended Decision and Order becomes final.

The mine is represented by United Mine Workers of America (UMWA), AFL-CIO, CLC-1501 with miners' representatives. On July 18, 2016 a pre- investigation meeting between MSHA, the petitioner and miners was held at the Camp Run Portal at an active gas well plugging site for the mine. The meeting was to discuss the petition for modification. Approximately 27 miners on all three shifts were interviewed. An overview and general discussions were held to request feedback, concerns and questions to be presented to MSHA and miner's representatives concerning the 101(c) petition for modification.

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 Harrison County Mine employs approximately 243 miners and produces approximately 25,000 tons of bituminous coal per day from the Pittsburgh #8 coal seam with an average mine height of 76 inches. The mine is accessed through 7 exhausting air shafts and 1 slope. The mine operates 3 production shifts per day, 5 days per week, on one working section, and one longwall. The mine liberates 6,326,654 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.

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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.

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5. *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 Joint Motion for Settlement by the parties, the Harrison County Coal Company is granted a modification of the application of 30 C.F.R. § 75.1700 to its Harrison 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 Harrison County Coal Company's Harrison County 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.

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- 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.

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- (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

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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**

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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.

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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

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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

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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

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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.

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- 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 in by 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

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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

Order 100-2025-001
JUN 25 2026
May District Manager of
Baltimore County, Maryland

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

Office of Coal and Gas
 Division of Mine Safety
 06/16/2026

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 Harrison County Coal Company's Harrison County Mine is hereby **GRANTED**.

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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

David Roddy
Harrison 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

Todd Toothman
UMWA Representative, Harrison County Coal Mine
53 Casey Lane
Metz, West Virginia 26585

David Hollis
UMWA Representative, Harrison County Coal Mine
P. O. Box 362
Pursglove, WV 26546

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Top of Pittsburgh Coal Seam

Bottom of Pittsburgh Coal Seam

100'

50'

50'

5'

5'

10'

200'

(400' if well is 4,000 feet or greater - pattern continuous)

50'

50'

50'

50'

50'

5'

5'

10'

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

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WR-35

API # 47- 081-01444 C

State of West Virginia
Division of Environmental Protection
Section of Oil & Gas

Well Operator's Report of Well Work

Farm name: Crab Orchard Coal and Land Company Operator Well No: CO-8BRLocation: Elevation: 2355.24 Quadrangle: EcclesDistrict: Trap Hill County: RaleighLatitude: 13,690 Feet South of 37 Deg. 50 Min. 00 Sec.
Longitude: 5,396 Feet West of 81 Deg. 15 Min. 00 Sec.Company: CDX Gas, LLC
P.O. Box 609
Pineville, WV 24874Agent: Michael McCownInspector: Terry UrbanPermit issued: 7/10/07Well Work commenced: 7/13/07Well Work completed: 8/31/07

Verbal plugging

Permission granted on:

Rotary x Cable _____ RigTotal depth (ft) 1246'Fresh water depths (ft) N/ASalt water depths (ft) N/AIs coal being mined in the area (Y/N)? YCoal depths (ft): 776', 1110', 1117', 1128'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up
20"	18'	18'	CTS
13 3/8"	563'	563'	1050 Sks
9 5/8"	843'	843'	536 Sks
7"	1015'	1015'	

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FEB 22 2008

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OPEN FLOW DATA

Producing formation Poca No. 3Gas: Initial open flow N/A Mcf/dFinal open flow N/A Mcf/d

Time of open flow between initial and final tests: _____ hours

Static rock pressure _____ psig (surface pressure) after _____ hours

Pay zone depth (ft)

Oil: Initial open flow _____ Bbl/d

Final open flow _____ Bbl/d

Second Producing formation Poca No. 2Gas: Initial open flow N/A Mcf/dFinal open flow N/A Mcf/d

Time of open flow between initial and final tests: _____ hours

Static rock pressure _____ psig (surface pressure) after _____ hours

Pay zone depth (ft)

Oil: Initial open flow _____ Bbl/d

Final open flow _____ Bbl/d

Note: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Steven Pauley

For: CDX Gas, LLCBy: Steven PauleyDate: 2-18-08

MAR 21 2008 07/17/2026

RAL 1444 C

Operator: CO-8BR
API No. 47-081-1444 C
Location: Raleigh County

4708101444P

Details of Perforated Intervals, Fracturing or Stimulation, Physical Change, Etc.

N/A

Well Log & Geologic Record - Depths from G.L.

Formation	Top	Bottom
Shale	0	283
Sandstone	283	364
Shale	364	597
Sandstone	597	735
Shale	735	776
Coal	776	783
Shale	783	795
Sandstone	795	874
Shale	874	942
Sandstone	942	962
Shale	962	984
Sandstone	984	1018
Shale	1018	1110
Coal	1110	1114
Shale	1114	1117
Coal	1117	1119
Shale	1119	1128
Coal	1128	1129
Shale	1129	1133
Sandstone	1133	1155
Shale	1155	1246

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FEB 22 2008

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MAR 21 2008

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West Virginia State Plane
NAD 27 - SOUTH
N 289,836.48
E 1,922,357.98

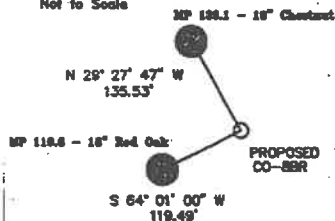
470 836.014
Lat 37° 50' 00"
Long 81° 15' 00"

Proposed CO-8BR

Surface Owner - Crab Orchard Coal and Land Company
Coal Owner - Crab Orchard Coal and Land Company
Coal Owner - Western Piedmont Properties, L.P.
Coal Owner and Lessee - ICG Seeling, LLC
Oil and Gas Owner - Crab Orchard Coal and Land Company
Oil and Gas Lessee - North Coast Energy Eastern, Inc.

REFERENCES

Not to Scale



(+) Denotes location of well on USGS map.
Surface Tract Information taken from Raleigh County Tax Records
No known domestic water users within 1000' of proposed location

FILE No. CDX Gas

DIRECTORY C:\Data\Plots\NCG Property\CO-8

DRAWING NAME CO-8BR.dwg

SCALE 1" = 2000'

MINIMUM DEGREE OF

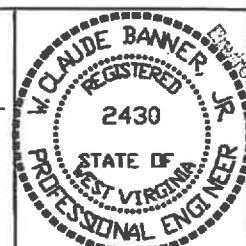
ACCURACY 1 : 2500

PROVEN SOURCE OF

ELEVATION GPS GLOBAL POSITIONING
SYSTEM (Sub meter accuracy)

THIS PLAT IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE REGU-
LATIONS ISSUED AND PRESCRIBED BY THE
DEPARTMENT OF MINES.

(SIGNED) W. Claude Banner
R.P.E. 2430 R.P.S.



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS CHARLESTON, WV



DATE JULY 4, 2007

OPERATOR'S WELL No. CO-8BR

47 - 081 - 01944-C
API WELL No. STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW CBM X
LOCATION: ELEVATION 2355.36 WATER SHED TRIBUTARY OF MILLERS CAMP BRANCH
DISTRICT TRAP HILL COUNTY RALEIGH
QUADRANGLE ECCLES, WV

SURFACE OWNER CRAB ORCHARD COAL AND LAND COMPANY
ROYALTY OWNER REFER TO APPLICATION

ACREAGE 1221.47 (Tax Map & Parcel 1)
LEASE ACREAGE

LEASE No. _____
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
JUL 13 2007

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION POCA NO. 2 & 3 AND PENN COALS
WELL OPERATOR CDX Gas, LLC
ADDRESS 101 N. KANAWHA ST.
BECKLEY, WV 25801

ESTIMATED DEPTH 1250'
DESIGNATED AGENT MICHAEL McCOWN
ADDRESS 803 QUARRIER ST. SUITE 400
CHARLESTON, WV 25301

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WW-4A
Revised 6-07

1) Date: 5/21/2026
2) Operator's Well Number CO-8BR

3) API Well No.: 47 - 081 - 01444

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>The Crab Orchard Coal & Land Company</u> ✓	Name <u>The Crab Orchard Coal & Land Company</u> ✓
Address <u>PO Box 443</u>	Address <u>PO Box 443</u>
<u>Charleston, WV 25301</u>	<u>Charleston, WV 25301</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>The Crab Orchard Coal & Land Company</u> ✓
	Address <u>PO Box 443</u>
	<u>Charleston, WV 25301</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Murdock Howard</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 140</u>	Name <u>CORE Natural Resources</u>
<u>Oak Hill, WV 25901</u>	Address <u>275 Technology Dr. Suite 101</u>
Telephone <u>681-990-2568</u>	<u>Canonsburg, PA 15317</u>

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

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

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

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



Well Operator Diversified Production, LLC
By: Chris Veazey
Its: Director of Administration
Address 414 Summers Street
Charleston, WV 25301
Telephone 304-590-7707

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JUN 25 2026

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Subscribed and sworn before me this 21st day of May, 2026
Jeffrey Bush Notary Public

My Commission Expires September 28, 2028

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

07/17/2026

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

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WV Department of
Environmental Protection

US POSTAGE PAID IMI

2026-05-21

25301

C4000004

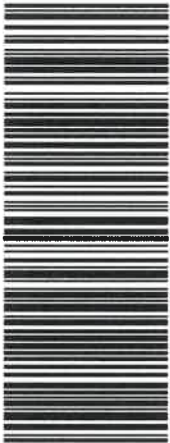
Retail

7.0 OZ FLAT



0901000010788

USPS CERTIFIED MAIL™



9407 1362 0855 1289 2273 60



THE CRAB ORCHARD COAL & LAND COMPANY
PO BOX 443
CHARLESTON WV 25322-0443

4708101444P

SURFACE OWNER WAIVER

47081014449

Operator's Well
Number

CO-8BR

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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WV Department of
Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

Scott M. Standfield
Signature

Date 6/15/26

Name
By
Its

CRAB OPERATES COAL AND LAVA COMPANY
SCOTT M. STANDFIELD
President

Date 6/15/26

Signature

Date

07/17/2026

WW-4B

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WV Department of
Environmental Protection

API No. 4708101444

Farm Name Crab Orchard

Well No. CO-8BR

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: 6/15/26

CRAB ORCHARD COAL AND WOOD COMPANY
By: SCOTT M STANBFIELD
Its PRESIDENT

Scott M Stanbfield

07/17/2026

WW-4B

API No. 4708101444 P

Farm Name Crab Orchard

Well No. CO-8BR

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

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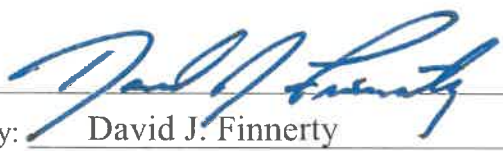
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Date: July 10, 2026

By: 
David J. Finnerty
Its Vice President OF CORE NATURAL RESOURCES

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Office of Oil and Gas

JUL 10 2026

WV Department of
Environmental Protection

07/17/2026



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energy

4708101444P

Date: 5/21/2026

Jason Harmon
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
(304)926-0450

Mr. Harmon,

Due to our cement provider, LaFarge Holcem, discontinuing the manufacturing of Class A cement, DGOC will be utilizing Class L cement to plug the following well:

API Number 4708101444 Well Name CO-8BR

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

Sincerely,

Diversified Energy Permitting Department

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Office of Oil and Gas
JUN 25 2026
WV Department of
Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

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

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

RECEIVED
Office of Oil and Gas
JUN 25 2026
WV Department of
Environmental Protection

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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Office of Oil and Gas
JUN 25 2026
WV Department of
Environmental Protection

WW-9
(5/16)API Number 47 - 081 - 01444
Operator's Well No. CO-8BRSTATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLANOperator Name: Diversified Production, LLC OP Code 494524121Watershed (HUC 10) UNT of Millers Camp Branch Quadrangle Eccles 7.5'Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☐ No ☒Will a pit be used? Yes ☒ No ☐If so, please describe anticipated pit waste: Production fluids and cement returnsWill a synthetic liner be used in the pit? Yes ☒ No ☐ If so, what ml.? 20 Proposed

Disposal Method For Treated Pit Wastes:

- ☐ Land Application (if selected provide a completed form WW-9-GPP)
- * ☐ Underground Injection (UIC Permit Number 2D03902327 002)
- ☐ Reuse (at API Number _____)
- ☒ Off Site Disposal (Supply form WW-9 for disposal location)
- * ☐ Other (Explain Any fluids not used on site will be recycled at an approved facility and noted in the WR-34 Submission)

Will closed loop system be used? If so, describe: N/ADrilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A-If oil based, what type? Synthetic, petroleum, etc. N/AAdditives to be used in drilling medium? N/ADrill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Chris VeazeyCompany Official (Typed Name) Chris VeazeyCompany Official Title Director of AdministrationSubscribed and sworn before me this 21st day of May, 20 26

Notary Public

My commission expires September 28, 2028

07/17/2026

Proposed Revegetation Treatment: Acres Disturbed +/- 1 ac. Prevegetation pH N/A

Fertilizer type 10-20-20 or Equivalent

Mulch	2	Tons/acre
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JUN 25 2026

WV Department of
Environmental Protection

Temporary

Permanent

Seed Type	lbs/acre
Red Fescue	15
Alsido Clover	5

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.

Plan Approved by: Murdoch Howard

Comments: _____

Title: Inspector Date: 0/29/26

Date: 0/24/26

Field Reviewed? (☒) Yes (☐) No

07/17/2026



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energy

47-081-01444

Well Plugging Map

Legend



Well



Pits



Pad



Access Road

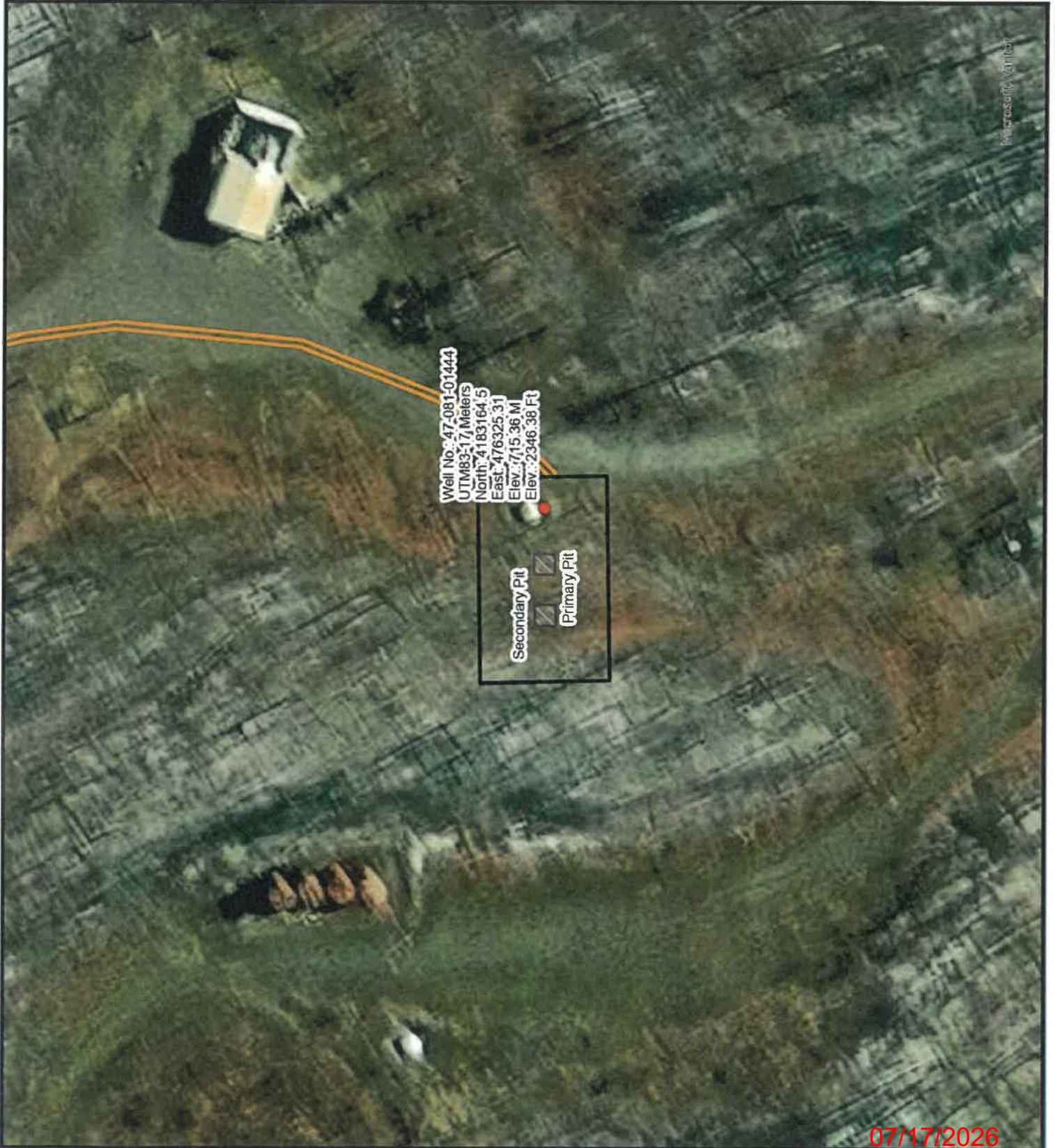
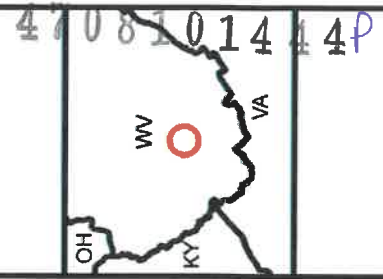


Public Roads

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JUN 25 2026

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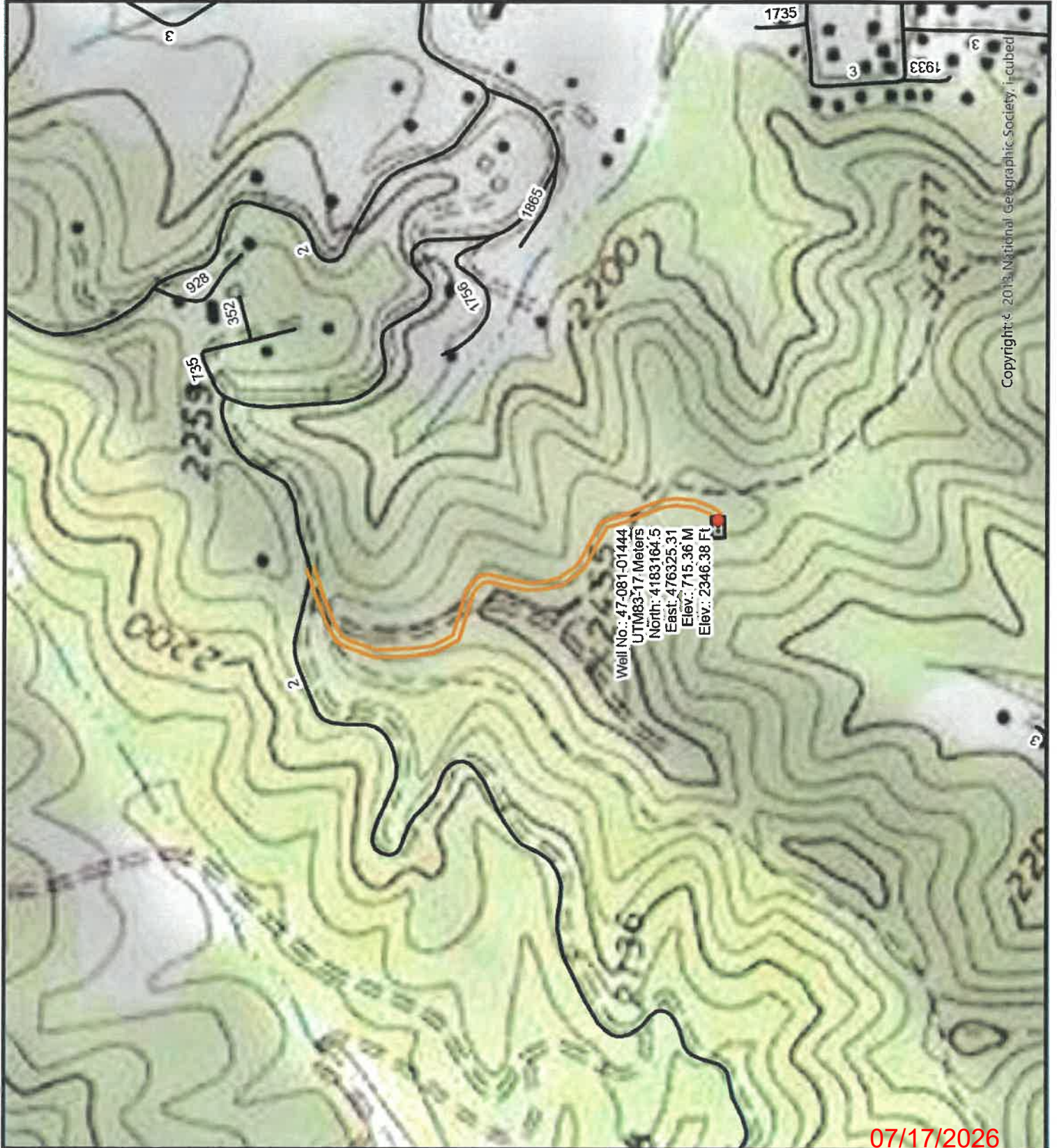
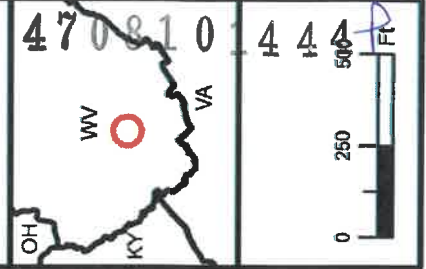
47-081-01444

Well Plugging Map

Legend

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

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Office of Oil and Gas
JUN 25 2026
WV Department of
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WW-7
8-30-06

4708101444^p



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

API: 4708101444 WELL NO.: CO-8BR

FARM NAME: Crab Orchard

RESPONSIBLE PARTY NAME: Diversified Production, LLC

COUNTY: Raleigh DISTRICT: Trap Hill

QUADRANGLE: Eccles 7.5'

SURFACE OWNER: The Crab Orchard Coal & Land Company

ROYALTY OWNER: Crab Orchard Coal

UTM GPS NORTHING: 4183164.5

UTM GPS EASTING: 476325.31 GPS ELEVATION: 2346.38'

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 ____

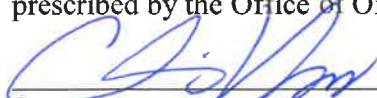
Real-Time Differential ____

Mapping Grade GPS X: Post Processed Differential X

Real-Time Differential ____

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

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


Signature

Chris Veazey - Director of Administration

Title

5/21/2006
Date

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Office of Oil and Gas
JUN 25 2006
WV Department of
Environmental Protection

07/17/2026



DIVERSIFIED
energy

4708101444^P

June 24, 2026

Requesting a partial plugging permit for well, API 47-081-01444 for mining purposes. Once the mining operations are complete, a Bona fide Future Use (BFU) status will be requested.

Diversified Energy Company

414 Summers St.

Charleston, WV 25301

(304) 590-7707

Email: cveazey@dgoc.com

414 Summers Street
Charleston, WV 25301

Murdock Howard

6/24/26

07/17/2026

PARTIAL PLUGGING PERMIT APPLICATION

4708101444

11/10/2016

PLUGGING PERMIT CHECKLIST
4708101444

RECEIVED
Office of Oil and Gas

Plugging Permit

JUN 25 2026

WV Department of
Environmental Protection

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

07/17/2026

WellID	Operator	CountyName	ApplicationID: WVDaysOOG	WVDaysTotal
4710303815	WEST VIRGINIA LAND RESOURCES, INC.	Wetzel	2/9/2026	49 Jeff
4710303836	WEST VIRGINIA LAND RESOURCES, INC.	Wetzel	2/26/2026	32 Jeff
4710300852	WEST VIRGINIA LAND RESOURCES, INC.	Wetzel	2/26/2026	32 Jeff
4710303837	WEST VIRGINIA LAND RESOURCES, INC.	Wetzel	2/26/2026	32 Jeff
4700100909	DIVERSIFIED PRODUCTION LLC	Barbour	2/25/2026	33 Jamie
4705100391	WEST VIRGINIA LAND RESOURCES, INC.	Marshall	3/3/2026	27
4710300266	COLUMBIA GAS TRANSMISSION, LLC	Wetzel	3/9/2026	21
4710300396	COLUMBIA GAS TRANSMISSION, LLC	Wetzel	3/9/2026	21
4705100281	COLUMBIA GAS TRANSMISSION, LLC	Marshall	3/9/2026	21
4705100774	COLUMBIA GAS TRANSMISSION, LLC	Marshall	3/9/2026	21
4705100398	COLUMBIA GAS TRANSMISSION, LLC	Marshall	3/9/2026	21
4710301472	COLUMBIA GAS TRANSMISSION, LLC	Wetzel	3/9/2026	21
4705102574	COLUMBIA GAS TRANSMISSION, LLC	Marshall	3/9/2026	21
4710302524	DIVERSIFIED PRODUCTION LLC	Wetzel	3/11/2026	19 Jamie
4710300183	COLUMBIA GAS TRANSMISSION, LLC	Wetzel	3/11/2026	19
4710300450	COLUMBIA GAS TRANSMISSION, LLC	Wetzel	3/11/2026	19
4705100275	COLUMBIA GAS TRANSMISSION, LLC	Marshall	3/11/2026	19
4704900304	WEST VIRGINIA LAND RESOURCES, INC.	Marion	3/13/2026	17
4704900297	WEST VIRGINIA LAND RESOURCES, INC.	Marion	3/13/2026	17
4704900305	WEST VIRGINIA LAND RESOURCES, INC.	Marion	3/17/2026	13
4710500138	UNKNOWN - DEP PAID PLUGGING CONTRACT	Wirt	3/24/2026	6 Jamie
4710501444	UNKNOWN - DEP PAID PLUGGING CONTRACT	Wirt	3/24/2026	6 Jamie
4710501462	UNKNOWN - DEP PAID PLUGGING CONTRACT	Wirt	3/24/2026	6 Jamie
4708501292	UNKNOWN - DEP PAID PLUGGING CONTRACT	Ritchie	3/24/2026	6 Jamie
4708510544	UNKNOWN - DEP PAID PLUGGING CONTRACT	Ritchie	3/24/2026	6 Jamie
4708510545	UNKNOWN - DEP PAID PLUGGING CONTRACT	Ritchie	3/24/2026	6 Jamie
4708510546	UNKNOWN - DEP PAID PLUGGING CONTRACT	Ritchie	3/24/2026	6 Jamie
4708510547	UNKNOWN - DEP PAID PLUGGING CONTRACT	Ritchie	3/24/2026	6 Jamie
4708510548	UNKNOWN - DEP PAID PLUGGING CONTRACT	Ritchie	3/24/2026	6 Jamie
4710501450	UNKNOWN - DEP PAID PLUGGING CONTRACT	Wirt	3/24/2026	6 Jamie
4710501449	UNKNOWN - DEP PAID PLUGGING CONTRACT	Wirt	3/24/2026	6 Jamie
4710501445	UNKNOWN - DEP PAID PLUGGING CONTRACT	Wirt	3/24/2026	6 Jamie

07/17/2026

4710501443	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501442	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501441	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501440	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501438	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501430	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501426	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501425	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710501424	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710500346	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710500341	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710500153	UNKNOWN - DEP PAID PLUGGING CONTRACT	Witt	3/24/2026	6	6	Jamie
4710300403	COLUMBIA GAS TRANSMISSION, LLC	Wetzel	3/26/2026	4	4	
4705100507	COLUMBIA GAS TRANSMISSION, LLC	Marshall	3/26/2026	4	4	
4700100696	WV MINERAL GROUP LLC	Barbour	3/30/2026	0	0	
4706102028	NORTHEAST NATURAL ENERGY LLC	Monongalia	3/30/2026	0	0	

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.
5. No sooner than sixty (60) days and no greater than ninety (90) days after the completion of the plugging of the well, the operator shall conduct an evaluation of the plugging operations to verify that the well is not leaking any fluid or gases and is properly sealed at the surface to prevent fluids or other materials from entering the well. Reports of such analysis are required to be provided to the agency with the permittee's filing of the WR-38. Wells affirmed to be leaking after plugging operations have completed, will be considered to not be properly plugged and may be required to be retested, repaired, and/or replugged.