



west virginia department of environmental protection

Office of Oil and Gas
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Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, January 8, 2021

WELL WORK PLUGGING PERMIT
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC.
46226 NATIONAL ROAD WEST
ST. CLAIRSVILLE, OH 43950

Re: Permit approval for 1
47-051-00689-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 1
Farm Name: BANE, J. ERCIL
U.S. WELL NUMBER: 47-051-00689-00-00
Vertical Plugging
Date Issued: 1/8/2021

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.

EXHIBIT NO.1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize the following method to plug all future wells.

SOLID PLUG METHOD

- * (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel an expanding Class A cement plug from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

* SEE ACTIVE WELL SHEET ATTACHED

* CLEAN OUT TO TD \approx 5500'
APPEARS 4 1/2" WAS RUN TO TD.

BOND LOG RUN 3/10/1982 SHOWS
4 1/2" TOP OF CEMENT @ \approx 1230' .

gwm
1/08/2021

101C MSHA Petition
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.



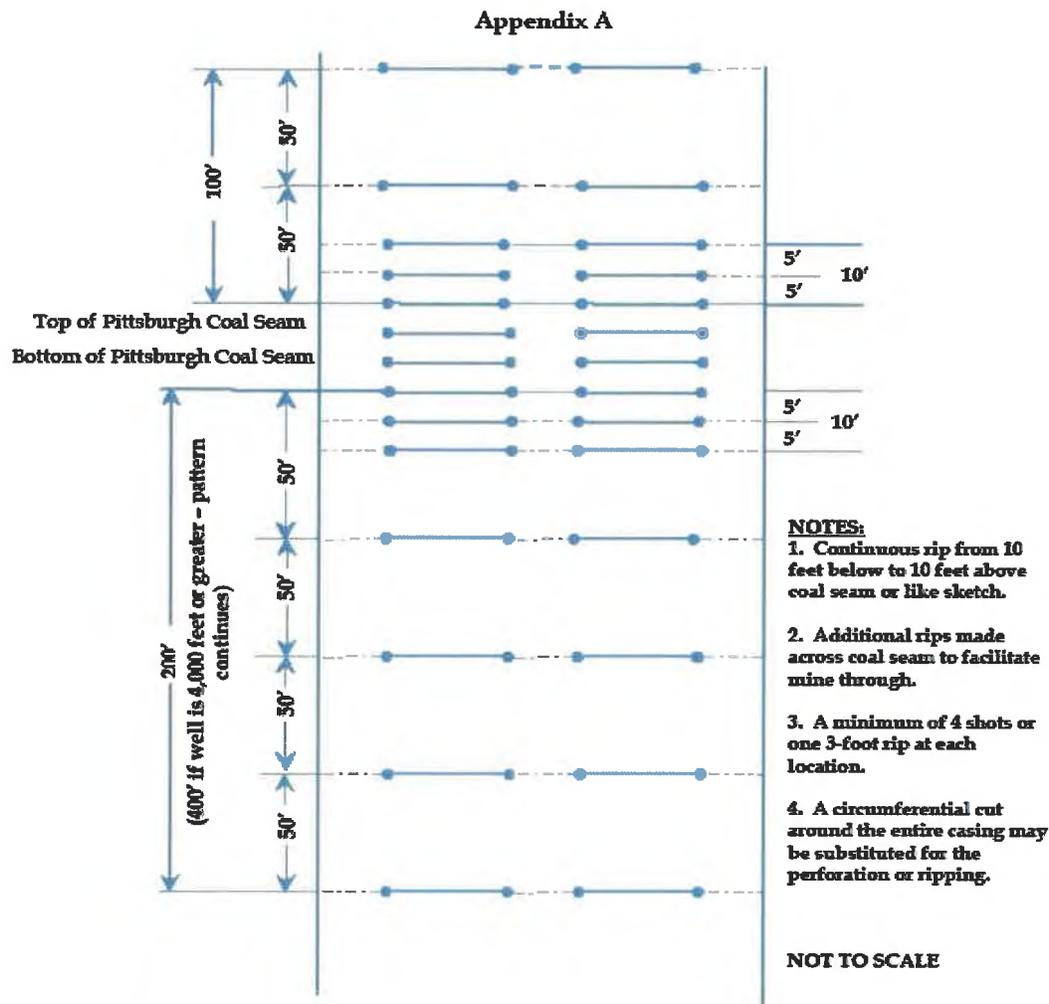
II. Active Well

- 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 - Find Cement Top, Cut & Remove Casing. gmm
 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
 1. 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 gmm
 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 20' to allow for variance in coal elevation).
 D. If well has casing, make diligent effort to pull casing as defined above.
 E. If casing cannot be pulled...
 i. Run Bond Log
 ii. Notify MSHA that casing cannot be pulled
 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



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

In the matter of:

The Marshall County Coal Company
 Marshall County Mine
 I.D. No. 46-01437

MSHA 101 C
 EXEMPTION

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 re-plugging, procedures for plugging or re-plugging oil or gas wells to the surface, procedures for plugging or re-plugging oil or gas wells for use as degasification boreholes, alternative procedures for preparing and plugging or re-plugging oil or gas wells, and procedures after approval has been granted to mine through a plugged or re-plugged well.

On 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.
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 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. **DISTRICT MANAGER APPROVAL REQUIRED**

- a. The type of oil or gas well that will be considered under this Petition includes wells that have been depleted of oil or gas production or have not produced oil or gas and may have been plugged, or active conventional vertical wells which are not producing gas or oil, subject to the provisions below. Unconventional wells in the Marcellus, Utica, and all other unconventional shale oil and gas wells are not subject to this modification. Nothing in these provisions is meant to lessen, diminish, or substitute any provision found in applicable state laws or regulations.
- b. A safety barrier of 300 feet in diameter (150 feet between any mined area and a well) shall be maintained around all oil and gas wells (defined herein to include all active, inactive, abandoned, shut-in, previously plugged wells, water injection wells, and carbon dioxide sequestration wells) until approval to proceed with mining has been obtained from the District Manager. Wells that were drilled into potential oil or gas producing formations that did not produce commercial quantities of either gas or oil (exploratory wells, wildcat wells or dry holes) are classified as oil or gas wells by MSHA.
- c. Prior to mining within the safety barrier around any well that the mine plans to intersect, the mine operator shall provide to the District Manager a sworn

affidavit or declaration executed by a company official, 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 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.
 - (iv) This provision does not apply to traditional degasification holes

which have not intersected the seam to be mined, have not commercially produced gas and have no API number.

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

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

- (1) The operator shall drill a hole adjacent and parallel to the well, to a depth of at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the coal seam to be mined, or 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 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 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 re-plugging has been completed.
- w. Mechanical bridge plugs should incorporate the best available technologies that are either required or recognized by the State regulatory agency and/or oil and gas industry.
- x. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the District Manager. These proposed revisions shall include initial and refresher training on compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in well intersection with training on the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.

- y. The responsible person required under 30 C.F.R. § 75.1501 Emergency Evacuations, is responsible for well intersection emergencies. The well intersection procedures should be reviewed by the responsible person prior to any planned intersection.
- z. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting program of instruction required under 30 C.F.R § 75.1502. The operator will revise the program of instruction to include the hazards and evacuation procedures to be used for well intersections. All underground miners will be trained in this revised plan within 30 days of submittal.

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*

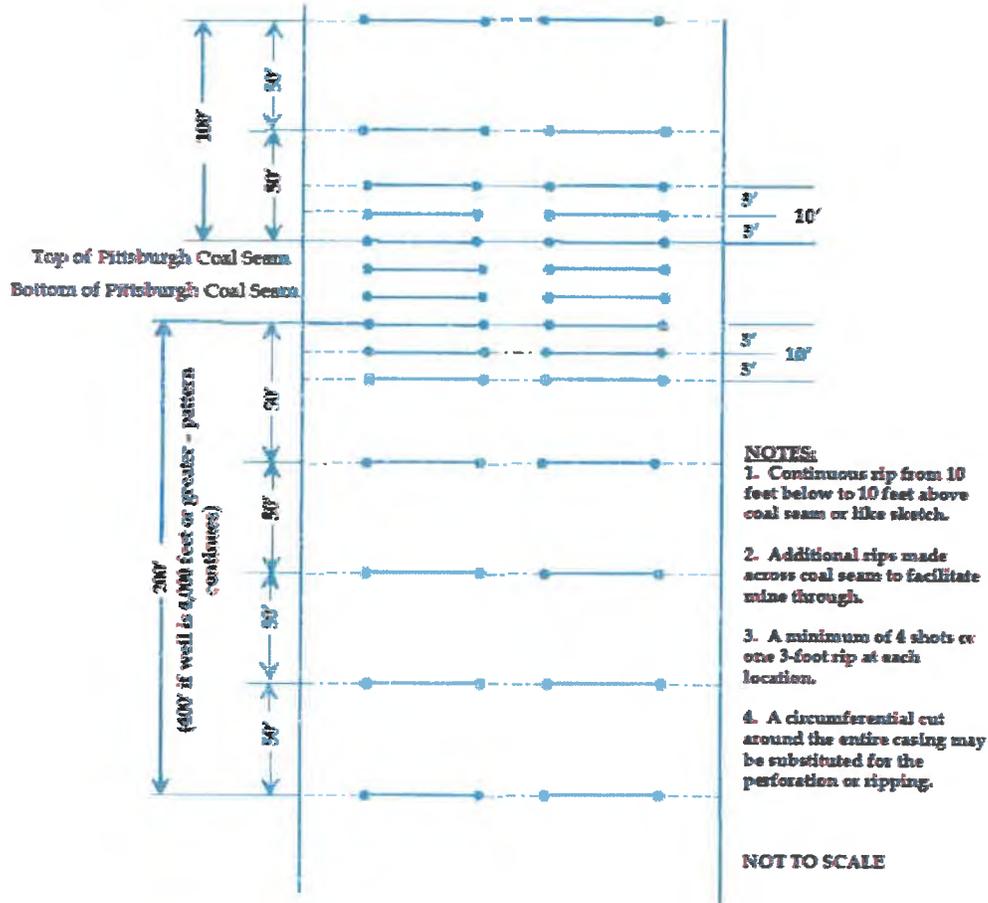
*Sheila McConnell
Office of Standards Regulations and Variances
Mine Safety and Health Administration, U.S. Dept. of Labor
201 12th St S, Suite 401
Arlington, VA 22202*

*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*

Appendix A



WR-35

07-Feb-91
API # 47- 51-00609

Revised TM6
Recorded _____

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BANE, J. ERCIL Operator Well No.: 1

LOCATION: Elevation: 1342.00 Quadrangle: CAMERON

District: CAMERON County: MARSHALL
Latitude: 1750 Feet South of 39 Deg. 52Min. 30 Sec.
Longitude 4200 Feet West of 80 Deg. 36 Min. 30 Sec.

Company: TRIO PETROLEUM CORP.
RT 76, BOX 35 E
GLENVILLE, WV 26351-0000

Agent: EDWARD A. BROOME

Inspector: DONALD ELLIS
Permit Issued: 02/02/82
Well work Commenced: 2-17-82
Well work Completed: 2-27-82

Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) _____
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

T.D. 5500 ft

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"		1507	4000 cu
RECEIVED			
FEB 25 91			
Division of Energy Oil and Gas Section			

OPEN FLOW DATA

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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.

2 1/2" further separation available

For: TRIO PETROLEUM CORP.

RECEIVED
Office of Oil and Gas

By: *[Signature]*
Date: 2-11-91

NOV 25 2020

WV Department of
Environmental Protection

*APPEARS 4 1/2" CASING
WAS RUN TO TD.*

gwm



Select County: (051) Marshall **Select datatypes:** (Check All)

Enter Permit #: 689

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

- [Table Descriptions](#)
- [County Code Translations](#)
- [Permit-Numbering Series](#)
- [Usage Notes](#)
- [Contact Information](#)
- [Disclaimer](#)
- [WVGES Main](#)
- ["Pipeline-Plus" New](#)

RECEIVED
Office of Oil and Gas

NOV 25 2020

WV Department of
Environmental Protection

WV Geological & Economic Survey:

Well: County = 051 Permit = 689

Report Time: Monday, December 09, 2019 1:48:19 PM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4705100689	Marshall	689	Cameron	Cameron	Cameron	39.870293	-80.556519	537927	4413455.3

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4705100689	-/-	-/-	Original Loc	Completed	James E Bane	1		1895		Whitnam Oil & Gas Corp.			

Completion Information:

API	CMP_DT	SUFFIX	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NGL_BEF	NGL_AFT	P_BEF	TL_BEF	P_AFT	TL_AFT
4705100689	-/-	-/-	-/-	1342	Ground Level	Majorsville	undetermined unit	undetermined unit	unclassified	unclassified	Oil and Gas	unknown	unknown				0		0	0	0	0	0	0	0	0	0

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100689	Whitnam Oil & Gas Corp.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Cameron Gas Company	1995	3,366		838	593	422	260	193	178	172	176	152	244	138
4705100689	Coleman, C. R.	1996	1,791	249	123	117	126	134	146	210	148	142	100	170	126
4705100689	Coleman, C. R.	2001	92	15	14	12	8	3	2	2	3	4	6	10	13
4705100689	Coleman, C. R.	2002	97	14	13	11	10	4	2	2	3	4	6	12	16
4705100689	Coleman, C. R.	2003	93	16	13	12	8	3	2	2	3	4	4	11	15
4705100689	Coleman, C. R.	2004	92	14	14	10	8	4	2	2	4	5	5	10	14
4705100689	Coleman, C. R.	2005	95	16	14	12	8	3	2	2	4	4	6	11	13
4705100689	Coleman, C. R.	2006	194	36	37	24	26	16	4	2	1	2	5	15	26
4705100689	Coleman, C. R.	2007	271	24	19	17	12	12	4	1	1	1	11	9	160
4705100689	Leatherwood, Inc.	2008	265	0	0	0	0	0	3	16	70	10	96	70	
4705100689	Leatherwood, Inc.	2009	694	83	61	16	0	0	48	59	62	50	292	9	14
4705100689	Leatherwood, Inc.	2010	22	10	3	9	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2011	14	0	0	0	0	0	0	0	0	0	0	14	0
4705100689	Leatherwood, Inc.	2012	125	0	0	0	0	0	0	0	0	0	0	61	64
4705100689	Leatherwood, Inc.	2013	36	3	3	3	3	3	3	3	3	3	3	3	3
4705100689	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2016	478	0	0	0	21	13	77	76	66	101	5	90	29
4705100689	Leatherwood, Inc.	2017	529	58	52	57	70	56	13	10	29	43	75	45	21
4705100689	Leatherwood, Inc.	2018	171	9	0	0	22	10	5	3	0	0	21	38	38

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100689	Whitnam Oil & Gas Corp.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Cameron Gas Company	1995													
4705100689	Coleman, C. R.	1996													
4705100689	Coleman, C. R.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Coleman, C. R.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Coleman, C. R.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Coleman, C. R.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Coleman, C. R.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Coleman, C. R.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Coleman, C. R.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2016	0												
4705100689	Leatherwood, Inc.	2017	0												
4705100689	Leatherwood, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100689	Leatherwood, Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4705100689	Leatherwood, Inc.	2016	0												
4705100689	Leatherwood, Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4705100689	Leatherwood, Inc.	2016	0												

OP-77 (04/19)

Record No. _____

State of West Virginia
Department of Environmental Protection
Charleston, WV 25301

This is to acknowledge that the well: API no. 47-051-00689

District Cameron

Well No M-1611 Farm name 1451 / James Bane

Is hereby transferred from:

The transferor Company: Leatherwood, LLC

Code # 494523160 Address 1000 Consol Energy Drive, Suite 100, Canonsburg, PA 15317

To:

The transferee Company: West Virginia Land Resources, Inc.

Code # 494525178 Address 1 Bridge Street, Monongah, WV 26554

Pursuant to the requirement in 35 CSR 4 - 10.3.a.2., execution of this OP-77 form by the transferor and transferee below, shall serve as certification of the assignment or the transfer identified in 35 CSR 4 - 10.3.a.1.

Transfer approval shall be subject to the provisions in W. Va. Code §§ 22-6-26, 22-10-7 and 35 CSR 4 - 10.5, or as otherwise set forth by agreement with the Chief.

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:

Designated agent (name) David Roddy

Address: 1 Bridge Street, Monongah, WV 26554

The transferee has bonded the said well by (check one):

Securities Cash Surety bond Letter of credit

Identified by:

Amount:	\$50,000	Effective date :	10/5/2020
Issuing authority:	Indemnity National Insurance Company	Id. No:	N-6000917

Transferor: LEATHERWOOD, LLC

By: Christopher M. Rabbitt

Its: VICE PRESIDENT

Taken, subscribed and sworn before me this 20 day of November 20 20

Notary Public Christopher A. Rabbitt

My Commission Expires 1/18/2024

Commonwealth of Pennsylvania - Notary Seal
Christopher A. Rabbitt, Notary Public
Washington County
My commission expires January 18, 2024
Commission number 1286866
Member, Pennsylvania Association of Notaries

Transferee: West Virginia Land Resources, Inc.

By: David Roddy

Its: Operator Agent

RECEIVED
Office of Oil and Gas
NOV 25 2020
WV Department of
Environmental Protection

Taken, subscribed and sworn before me this 23 day of November 20 20

Notary Public Christian K. Warfield

My Commission Expires June 10, 2024



Marshall County (051)

051-0689

051-0690

051-0696

Owned by: Trio Petroleum Corporation
Rt. 76, Box 35-E
Glenville, WVa. 26351
Attn: E. A. Broome, Agent
PH: 304-462-7311

RECEIVED
Office of Oil and Gas

NOV 25 2020

WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
JUL 11 2008
WV Department of Environmental Protection

Record No. _____

State of West Virginia
Department of Environmental Protection
Charleston, WV 25301

This is to acknowledge that the well: API no. 47-051-00689

District Cameron
Well No. 1 Farm name J. Errol Bane

RECEIVED
Office of Oil and Gas

Is hereby transferred from:

The transferor Company: C R Coleman

NOV 25 2020

Code # 306670 Address R.D #4, Box 231, Cameron, West Virginia

WV Department of Environmental Protection

To:

The transferee Company: Leatherwood, Inc

Code # 494476721 Address 1600 Washington Road, Pittsburgh, PA 15241-1405

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. X 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:

Designated agent (name) Terry L. Suder

Address: 120 Franklin Farms Road, Fairmont, WV 26554

The transferee has bonded the said well by (check one)
Securities Cash Surety bond Letter of credit

Identified by:

Amount:	Fifty Thousand and 00/100 Dollars - (\$50,000.00)	Effective date:	December 7, 2005
Issuing authority:	Travelers Casualty and Surety Company of America	Id. No.	104647099

Transferor: C. R. Coleman

By: [Signature]

Its: [Signature]

Taken, subscribed and sworn before me this 2nd day of July, 2008

Notary Public Debra Lancaster

My Commission Expires December 27, 2017



Transferee: Leatherwood, Inc

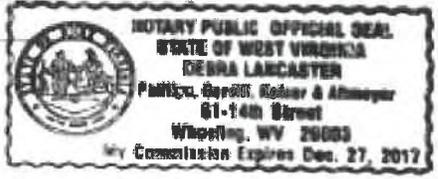
By: Terry L. Suder [Signature]

Its: Manager and Designated Agent

Taken, subscribed and sworn before me this 2nd day of July, 2008

Notary Public Debra Lancaster

My Commission Expires December 27, 2017





STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
323 FOM STREET
CHARLESTON, WEST VIRGINIA 25304
TELEPHONE: 346-3741

Form-OP-77
Reverse

JAN 28 3 00 PM '91

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Trio Petroleum Corp. Code # 50050 (the transferor) to Striker Oil & Gas Corporation Code # 47890 (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22B, Article 1, of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferor has registered and designated an agent on Form-OP-1, who is: designated agent (name) Atty. John E. Lutz (address) P.O. Box 3233 Charleston, WV 25332, which is on file with the Division of Oil & Gas.

The transferor has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. _____



(Transferee) [Signature]
By Striker Oil & Gas Corporation, by Thomas K. Trudeau
Its President

Taken, subscribed and sworn to before me this 21st day of January 19 91
Notary Public [Signature] Teri D. Smith
My commission expires N/A 19 - My commission has no expiration date

(Transferor) [Signature]
By E.A. Broome, Trio Petroleum Corp
Its President

Taken, subscribed and sworn to before me this 23rd day of January 19 91
Notary Public [Signature]
My commission expires October 24, 2000



JAN 28 1991

ACCEPTED THIS 27 DAY OF JAN, 19 91
BY: [Signature]
Director - Division of Oil and Gas

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Office of Oil and Gas

NOV 25 2020

WV Department of
Environmental Protection

Computer
Open
Copies

IR-26
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE _____
ELEVATION 1342
DISTRICT Courman
QUADRANGLE Courman
COUNTY Marshall
issued: 2-02-82

API# 47-051-0689
OPERATOR Tri Pit
TELEPHONE _____
FARM Barre
WELL # 1

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JAN 24 1991

Division of Energy
Oil and Gas Section

SURFACE OWNER _____
TARGET FORMATION _____
DATE STARTED _____
LOCATION _____

COMMENTS _____ TELEPHONE _____
DATE APPLICATION RECEIVED _____

NOTIFIED _____ DRILLING COMMENCED 2-16-82

WATER DEPTHS _____
COAL DEPTHS _____

CASING

Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up
Ran _____ feet of _____ "pipe on _____ with _____ fill up

TD 5500 feet on 2-24-82

PLUGGING

Type	From	To	Pipe Removed

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Pit Discharge date: _____ Type _____

Field analysis ph _____ fe _____ cl _____

Well Record received _____

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Date Released 1-15-91

Don Ellis
Inspector's signature

IR-26
Reverse

API# 17 - - - - -

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1	2-17-92		Start Daily	
2	2-24-92		T.D. 5.500	Full Comp. Fine. W.H.C. Logging
3				
4	12-19-90		U.S. 2126	Found some. H.L. 2126
5				
6	1-18-91		Release	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

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WV Department of
Environmental Protection

STRIKER OIL & GAS CORP.

GLENVILLE
1291 NORTH LINDS STREET
GLENVILLE, WEST VA 26351
304-462-3741



ATLANTA
SUITE 1550
200 GALLERIA PARKWAY
ATLANTA, GA 30329
404-526-1570

*Xc to
Files*

May 25, 1988

Mr. Ted Streit
State of West Virginia
Department of Energy
322 704 Street South East
Charlottesville, W. Va. 253304

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JUN 06 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Re: API # 47-51-00689
Bane #1
API # 47-51-00690
Redd #1

Dear Mr. Streit,

In reference to your Memorandum of April 29, 1988 concerning referenced wells, please be advised that the Redd was drilled but never completed and the Bane has been completed. We acquired Striker Oil & Gas Co., Inc. (formerly Whitnam Oil & Gas Co., Inc.) out of Chapter 11 proceedings December 19, 1983. Many of the company well records were missing and we find that to be the case with these two wells.

To further complicate the issue, the landowner of the Bane well took legal action in 1986 to have the lease declared abandoned. We are currently appealing this action before the West Virginia Supreme Court.

Please advise me as to what further information we may give you.

Very truly yours,

J. M. Capito, Jr.
John M. Capito, Jr.

JHCJR/hsg

cc: L. E. Hester
Jean Yost
John E. Lutz

051-0689
Mintz

Form OF-77
Obverse

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MAR 05 1987



STATE OF WEST VIRGINIA
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
ARCH A. MOORE, JR. DEPARTMENT OF ENERGY Charleston, West Virginia 25311
Commissioner

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from TRIO PETROLEUM CORP. (the transferor) to STRIKER OIL & GAS CORP. (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 220, Article 1 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) Jim R. Harrison (address) P. O. Box 992, Buckhannon, W. Va. 26201

is on file with the Division of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number: United States Fidelity & Guaranty Co.
Bond No. 10-10130-02150-85-1

(Transferee) STRIKER OIL & GAS CORP.
By J. M. [Signature]
Its Secretary

Taken, subscribed and sworn to before me this 16th day of January, 1987
Notary Public Washington R. Hunt
My commission expires July 10, 1987

(Transferor) TRIO PETROLEUM CORP.
By [Signature]
Its PRESIDENT

Taken, subscribed and sworn to before me this 3rd day of MARCH, 1987
Notary Public [Signature]
My commission expires Oct 24, 1990

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NOV 25 2020
WV Department of
Environmental Protection

ACCEPTED THIS 24th DAY OF MARCH, 1987
BY: [Signature]
Director - Division of Oil and Gas

Complete &
approved
[Signature]

Form OP-77
Reverse

API (Permit) Number

47-051-0689

47-051-0690

47-051-0696

Farm Name:

BANE

47790

REDD

KAPTON

Operator's Well Number

No. 1

No. 1

No. 1

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MAR 05 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia

Department of Mines

Charleston 25305

June 26, 1984

JOHN D. ROCKEFELLER, IV.
Governor

WALTER N. MILLER
Director

Whitman Oil & Gas Corporation
P. O. Box 719
Marietta, Ohio 45750

To: Whitman Land Resources
1200 New Hampshire Ave. NW
Suite 400
Washington, D.C. 20036
Attn: Beare and Cutler
(2-25-85)

In Re: Permit No. 051-0689
Farm: J. Ercil Bane
Well No: 1
District: Cameron
County: Marshall
Issued 2-2-82

Gentlemen:

Please send an original and two copies of the completion drilling record for the above described well location. This record must be submitted before we can request the district inspector to make a "Final Inspection".

Administrative Regulations - Rule 16.02 Filing of Well Record and Related Forms.
(a) within 90 days after the completion of permitted work, three copies of Form IV-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change", containing the geological information required by Code 22-4-8b in the form specified shall be filed with the Administrator, Office of Oil & Gas-Dept. Mines.

Sincerely,

Theodore M. Streit
Administrator-Oil & Gas

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Environmental Protection

STRIKER OIL & GAS CORPORATION

Petroleum Bldg., Rt. 76, Box 35-F, Glenville, West Virginia 26351 (304)462-7553

February 19, 1985

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FEB 21 1985

**OIL & GAS DIV.
DEPT. OF MINES**

Mr. Theodore M. Streit, Administrator
Office of Oil & Gas
Department of Mines
307 Jefferson Street
Charleston, WV 25311

Re: Cause #7-D Order #1

Dear Mr. Streit:

I am in receipt of an order signed by you dated February 7, 1985, concerning Permit No. 47-051-0670, Evans #1, and Permit No. 47-051-0671, Parsons #1, which were drilled originally by Carl E. Smith. It is my understanding that at the time Mr. Smith assigned a group of leases to Whitnam Oil & Gas Corporation, he also sold the two subject wells.

During the bankruptcy proceedings in Columbus, the two wells along with all acreage in Marshall County was assigned to Whitnam Land Resources, Beers and Cutler, 1200 New Hampshire Ave., NW, Suite 400, Washington, D.C. 20036.

At that time, all records pertaining to these two wells were sent to the above address by the court. We no longer have any ties with Whitnam Land Resources and are unable in any way to come up with completion reports for these two wells.

We suggest that you attempt to contact Beers and Cutler and get them to review their records and file the necessary IV-35.

Again, we would like to stress upon you that Striker Oil and Gas Corporation, as the successor to Whitnam effective December 19, 1983, has never had in its possession or titled to the subject two wells.

Very truly yours,
STRIKER OIL & GAS CORPORATION

E.A. Broome
E.A. Broome
President

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- 151-0670
- 151-0671
- ~~151-0684~~
- 151-0685
- 151-0689 ✓
- 151-0690
- 151-0691
- 151-0692
- 151-0693
- 151-0694
- 151-0695
- 151-0696
- 151-0697
- 151-0698
- 151-0699

EAB:jlr

09.11

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

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INSPECTOR'S WELL REPORT
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 051-0689

Oil or Gas Well _____
(LUMP)

Company <u>Trio petroleum co</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Base</u>	16	RECEIVED Office of Oil and Gas		Kind of Packers _____
Well No. <u>1</u>	15	NOV 25 2020		
District _____ County <u>Marshall</u>	10	WV Department of Environmental Protection		Size of _____
Drilling commenced _____	8 1/2			Depth set _____
Drilling completed _____ Total depth _____	6 1/2			
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Lines Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls. 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: called by Marshall co Sheriff Dept well leaking
Gas. called Investigated problem. Called Trio pet
They said they would fix well.

Nov 25 1984
date

R. A. Lowther
SUPERVISOR

WEST VIRGINIA DEPARTMENT OF MINES
 CHARLESTON, WEST VIRGINIA
 INTER-OFFICE MEMORANDUM

0061-0219

TO: ROBERT LOWTHER DATE: MARCH 16, 1983
 FROM: LOIS SIMPKINS SUBJECT: 47-051-0685, 051-0689, 051-0690,
 051-0692, 051-0694 and 051-0696

Bob:

We have had requests for completion records on these wells and in checking the files I can't find where there have been any well records submitted. In fact, there aren't any inspectors reports in some of them.

Would you please check and submit status reports at your earliest convenience. Please direct them to my attention.

Thank you.

Attachments - copies of location plats for subject wells

WEST VIRGINIA DEPARTMENT OF MINES
 CHARLESTON, WEST VIRGINIA
 INTER-OFFICE MEMORANDUM

0061-0162

TO: Robert Lowther DATE: April 13, 1982
 FROM: Ted Streit SUBJECT: Whitman Oil and Gas Corp.
 Well Explosion/Fire in February, 1982

Mr. Lowther:

Attached is a copy of a letter from GAB Business Services relative to the above subject.

Please send in a detailed report of this accident at your earliest convenience.

/ls
 Attachments - GAB letter and plat 47-051-0689

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WV Department of
 Environmental Protection

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APR 19 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF ENERGY

Report Gas well Fire Whitman oil
& Gas Permit 47-051-0689 James
Bane Farm

on Feb 24, 1982 at 6 AM I heard on
the Radio Report Gas well Fire in
marshall Co. I didn't know any
wells were being Drilled in this
area, I hadn't been notified by
Whitman oil & Gas when they were
starting Drilling.

I went to Marshall Co Sheriff
Dept to find location of well. The
Deputy Sheriff said they Received a
Report of Fire & Injuries at 2:15 AM
they Responded with various Fire Depts,
they were unable to Extinguish Fire
with water only. Whitman oil & Gas
called Halliburton Co to bring a Tanker
Truck with liquid nitrogen, about
7 AM they extinguished the Fire but it
Re-ignited They then Received more
water by Tank Trucks to cool Hot
equipment and used nitrogen with
water at about 8 AM and completely
extinguished the Fire. I arrived at
location at about 11 AM, I received
all of the above information second
Hand.

I talked with Stan Coates,
Whitman oil & Gas and the Tool pusher
For Pan Eastern, They said the logging

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Environmental Protection

Crew had just pulled the logging tool out of the hole and they were changing to Tool preparing to Run another type of log when the Fire started. There were these 2 men from logging crew on walk area and 2 men from Drilling crew in Dog house on drilling platform at time Fire started. Two men in Dog house were Burned. The one statement from Tool pusher was that it blew Door open on Dog house.

Damage was to Drill pipe standing in Derrick and to derrick and equipment. Derrick fell on when it fell.

Robert Louthen

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R E P O R T
G A S W E L L F I R E

Whitnam Oil and Gas Company
Permit No. 47-051-0689
James Bane Farm

On February 24, 1982, at 6:00 AM, I heard on the radio of a gas well fire in Marshall County. I didn't know any wells were being drilled in this area. I hadn't been notified by Whitnam Oil and Gas when they were starting drilling.

I went to Marshall County Sheriff's Department to find location of well. The Deputy Sheriff said they received a report of fire and injuries at 2:15 AM. They responded with various fire departments, and they were unable to extinguish the fire with water only. Whitnam Oil and Gas called Halliburton Company to bring a tanker truck with liquid nitrogen. About 7:00 AM they extinguished the fire, but it reignited. They then received more water by tank trucks to cool hot equipment and used nitrogen with water at about 8:00 AM and completely extinguished the fire. I arrived at location at about 11:00 AM. I received all the above information secondhand.

I talked with Stan Coates, Whitnam Oil and Gas, and the tool pusher for Pan Eastern. They said the logging crew had just pulled the logging tool out of the hole and they were changing the tool preparing to run another type of log when the fire started. There were two (2) men from logging crew on walk area and two (2) men from drilling crew in dog house on drilling platform at the time the fire started. The two men in the dog house were burned. The one statement from the tool pusher was that it blew the door open on the dog house.

Damage was to drill pipe standing in derrick, and to the derrick and equipment the derrick landed on when it fell.

By: Robert A. Lowther, District Oil and Gas Inspector
WV Department of Mines - Office of Oil and Gas

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WV Department of
Environmental Protection

WEST VIRGINIA DEPARTMENT OF MINES
CHARLESTON, WEST VIRGINIA
INTER-OFFICE MEMORANDUM

OCOM-0152

TO: Deo Wace DATE: March 23, 1988

FROM: Ted Streit/lo SUBJECT: Attached letter

Deo:

Attached is a copy of a letter from GAB Business Services relative to the well explosion/fire at one of Whitman Oil & Gas Corporation's wells in February.

Please send in a detailed report of this accident at your earliest convenience.

Thank you

/lo

Attachment - as stated

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NOV 25 2020

WV Department of
Environmental Protection

06-11

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

INSPECTOR'S WELL REPORT

Permit No. 051-0689

Oil or Gas Well _____
WINDS _____

Company <u>Whitman Oil & Gas</u>	EASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Marietta Ohio</u>	Size			
Farm <u>J. Escil Base</u>	16 _____			Kind of Packer _____
Well No. <u>1</u>	12 _____			
District <u>Cameron</u> County <u>Marshall</u>	10 _____			Size of _____
Drilling commenced <u>2-17-82</u>	<u>5/8</u>	<u>1507</u>	<u>1507</u>	
Drilling completed <u>2-22-82</u> Total depth <u>5500</u>	6 3/8 _____			Depth set _____
Date shut _____ Depth of shut _____	5 1/16 _____			
Initial open flow _____ /10ths Water in _____ Inch	3 _____			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2 _____			Perf. bottom _____
Volume _____ Cu. Ft.	Lines Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls. Use Oil _____ hrs.	CASING CEMENTED <u>1507</u> SIZE <u>5/8</u> No. FT _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

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Remarks: Cemented with 400 STS Cement

MAR 25 1982

Office of Oil and Gas

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

NOV 25 2020

WV Department of Environmental Protection

3-22-82

R.A. Louther 512
DISTRICT WELL INSPECTOR

GAB Business Services Inc
410 1/2 Market Street
P O Box 3
Parkersburg West Virginia 26101
Telephone (304) 485-5417

Branch Office
March 18, 1982

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MAR 22 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

WV Department of Mines
Oil & Gas Division
1615 Washington Street, East
Charleston, West Virginia 25300

GAB

RE: GAB File Number : 11226-04062
Our Insured : Whitnam Oil & Gas Corp.
Date/Accident : 2/24/82
Type of Accident: Well Explosion/Fire
Location : Cameron, West Virginia

Gentlemen:

This office represents the Oil & Gas Insurance Company which insures the Whitnam Oil & Gas Corporation. On 2/24/82, there was an explosion/fire at the Well site of our insured in Cameron, WV, involving two injuries and considerable property damage.

To assist in our investigation, we would appreciate if you would be willing to forward a copy of your report concerning this incident, for the report we would, of course, honor your reasonable and customary charges, if you would kindly enclose a bill.

As always, your cooperation in these matters is greatly appreciated.

Sincerely,

H. C. Bauer

H. C. Bauer
Adjuster

HCB/bsb

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WV Department of
Environmental Protection

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

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MAR 22 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WEST VIRGINIA DEPARTMENT OF MINES

Permit No. 05-1-0689

Oil or Gas Well _____
141983

Company <u>Whitman Oil & Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Marionville Ohio</u>	Size			
Farm <u>J. Frank Base</u>	16			Kind of Packer _____
Well No. <u>1</u>	13			
District <u>Cameron</u> County <u>Marshall</u>	10			Size of _____
Drilling commenced <u>2-17-82</u>	8 1/2	<u>1507</u>	<u>1507</u>	
Drilling completed <u>2-22-82</u> Total depth _____	6 3/4	<u>1507</u>	<u>1507</u>	Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ inch	3			Perf. top _____
Open flow after tubing _____ /10ths More. in _____ inch	2			Perf. bottom _____
Volume _____ Co. Ft. _____	Liners Used			Perf. top _____
Stock pressure _____ lbs _____ hrs.				Perf. bottom _____
Oil _____ bbls. 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: This well was completed to a depth of about 5500'. Rig Burned Down During logging operations. Present owner my O'Neal munn

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Office of Oil and Gas

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WV Department of
Environmental Protection

8918 Tesoro on hole 500

San Antonio Texas

78127

R.A. Lowther

DISTRICT WELL INSPECTOR

3-18-83

DATE

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

INSPECTOR'S WELL REPORT

Permit No. 47-051-0689

Oil or Gas Well Gas

Company <u>Whitman Oil & Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
P.O. Box 769 Address <u>Marietta Ohio 45750</u>	Size			
Farm <u>J. E. Gane</u>	10			Kind of Packe
Well No. <u>1</u>	12			
District <u>Cameron</u> County <u>Marshall</u>	14			Size of
Drilling commenced <u>2-16-82</u>	16	<u>5/8</u>	<u>1503</u>	<u>1503</u>
Drilling completed <u>2-24-82</u> Total depth <u>5500</u>	18			Depth set
Date shot _____ Depth of shot _____	20			63/16
Initial open flow _____ /10ths Water in _____ Inch	22			Perf. top
Open flow after tubing _____ /10ths Merc. in _____ Inch	24			Perf. bottom
Volume _____ Cu. Ft.	26			Liners Used
Stock pressure _____ lbs _____ tes.	28			Perf. top
Oil _____ bbls. Int 21 hrs.	30			Perf. bottom
Fresh water _____ feet _____ feet	32			CASING CEMENTED <u>5/8</u> SIZE <u>1503</u> No. <u>FT-18-82</u> Date
Salt water _____ feet _____ feet	34			NAME OF SERVICE COMPANY <u>Halliburton</u>
	36			COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
	38			_____ FEET _____ INCHES _____ FEET _____ INCHES
	40			_____ FEET _____ INCHES _____ FEET _____ INCHES

NOV 25 2020

WV Department of Environmental Protection

Drillers' Names _____

Remarks: Logging well, Preparing to run another log, Gas ignited approximately 2 AM 2-24-82, Derrick fell over with severe damage to Drill pipe standing in Derrick. Two Employees Burned Face, Hands & wrists, 2nd & 3rd degree Burns. Fire extinguished about 8 AM Local Fire Dept. Halliburton with Nitrogen. Filled Hole with HCL mixed with water

2-24-82

Robert Loutler 512

DATE

DISTRICT WELL INSPECTOR

(Reverse)
(Revised 3-51)



Farm J. Bane #1
API # 47-051-0689
Date January 29, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil x / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow /
LOCATION: Elevation: 1342 Watershed: Grave Creek
District: Cameron County: Marshall Quadrangle: Cameron 7.5'

WELL OPERATOR Whitnam Oil & Gas Corporation DESIGNATED AGENT JOHN E. WILLIAMS
Address P. O. Box 719 (100 Front St.) Address Route 1, Box 41
Marietta, OH 45750 Linn, W. Va. 26384

OIL AND GAS ROYALTY OWNER J. Ercil Bane COAL OPERATOR N/A
Address R. D. #4 Address
Cameron, WV 26033

ACREAGE 95
SURFACE OWNER Same COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME
Address
NAME
Address

FIELD SALE (IF MADE) TO:
NAME
Address
COAL LESSEE WITH DECLARATION ON RECORD:
NAME
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip L. Tracy
Address Rt. 23
Alma, WV 26320
Telephone 304/758-4573

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JAN 29 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract x / dated Oct 1, 1981 to the undersigned well operator from Carl E. Smith Petroleum, Inc.

(If said deed, lease, or other contract has been recorded:)

Recorded on Nov. 24, 1981, in the office of the Clerk of County Commission of Marshall County, West Virginia, in Lease 495 Book at page 52. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify)

BLANKET BOND

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

RECEIVED
Office of Oil and Gas

NOV 25 2020

WV Department of
Environmental Protection

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

BLANKET BOND

WHITNAM OIL & GAS CORPORATION
Well Operator
By: Robert S. Coates
Its: Robert S. Coates, Vice President Operations

Form IV-2
(Reverse)

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) PAN EASTERN DRILLING
Address 123 Greene Street
Marietta, OH 45750

GEOLOGICAL TARGET FORMATION Alexander
Estimated depth of completed well 5800 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, 110 feet; salt, feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes / No X /

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor	11 3/4			X			30'	15 sx	Kinds
Fresh water	8 5/8			X			1200'	To Surface	Sizes
Coal									
Intermed.									
Production	5 1/2		15.5	X			5800'	500 sc or as Required by Rule 15.01	Depths set
Tubing									Perforations:
Liners									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-2-82.


Deputy Director - Oil & Gas Division

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NOV 25 2020
WV Department of Environmental Protection

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. 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 regularions.

Date: , 19 .

By:



IV-9
(Rev 8-81)

DATE 1-26-82
WELL NO. Bear #1
API NO. 47-051-0689

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RESTORATION PLAN

COMPANY NAME WHITMAN OIL & GAS CORPORATION DESIGNATED AGENT JOHN E. WILLIAMS
Address P. O. Box 719, Marietta, OH Address Route 1, Box 41, Linn, W. Va.
Telephone 614/374-2017 Telephone 304/462-5393
LANDOWNER James Earl Home SOIL CONG. DISTRICT Northwest of Ashland
Restoration to be carried out by WHITMAN WELL SERVICE (Agent)

This plan has been reviewed by Walter Paulus DC SCD. All corrections and additions become a part of this plan: 28 Jan 82
(Date)
Kevin S. Newkome
(SCD Agent)

NAME AND	LOCATION
Structure <u>Culvert</u> (A)	Structure <u>Division Ditch</u> (1)
Spacing <u>Min. 12"</u>	Material <u>Earth</u>
Page Ref. Manual <u>1-8</u>	Page Ref. Manual <u>1-9</u>
Structure <u>Ditch Cross-Label</u> (B)	Structure <u>Drainage Ditch</u> (2)
Spacing <u>As Required Table C</u>	Material <u>Earth</u>
Page Ref. Manual <u>1-5</u>	Page Ref. Manual <u>WATERGATED</u>
Structure _____ (C)	Structure <u>JAN 27 1982</u> (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual <u>OIL AND GAS DIVISION</u>

All structures should be inspected regularly and repaired if necessary. All commercial timber to be cut and stacked and all brush and small timber to be cut and removed from the site before site work begins.

RESTORATION

Treatment Area I

Line <u>6.5</u> Tons/acre
or correct to pH _____
Fertilizer <u>600</u> lbs/acre
(10-20-20 or equivalent)
Mulch <u>HAY</u> 2 Tons/acre
Seed* <u>orchard grass</u> 20 lbs/acre
<u>Alfalfa clover</u> 4 lbs/acre
_____ lbs/acre

Treatment Area II

Line _____ Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch <u>SAME</u> Tons/acre
Seed* <u>AS</u> lbs/acre
<u>HYCA</u> lbs/acre
_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with SE recommended strain.

PLAN PREPARED BY Lawrence & Associates

ADDRESS 100 Front St. (P. O. Box 719)
Marietta, OH 45750

PHONE NO. 614/374-2017

NOTE: Please request landowner's cooperation in providing the seedling for the growing season. Attach separate sheets if necessary for contracts.

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Environmental Protection

(REV 8-81)

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE _____

LEGEND

Well Site 

Access Road 



WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

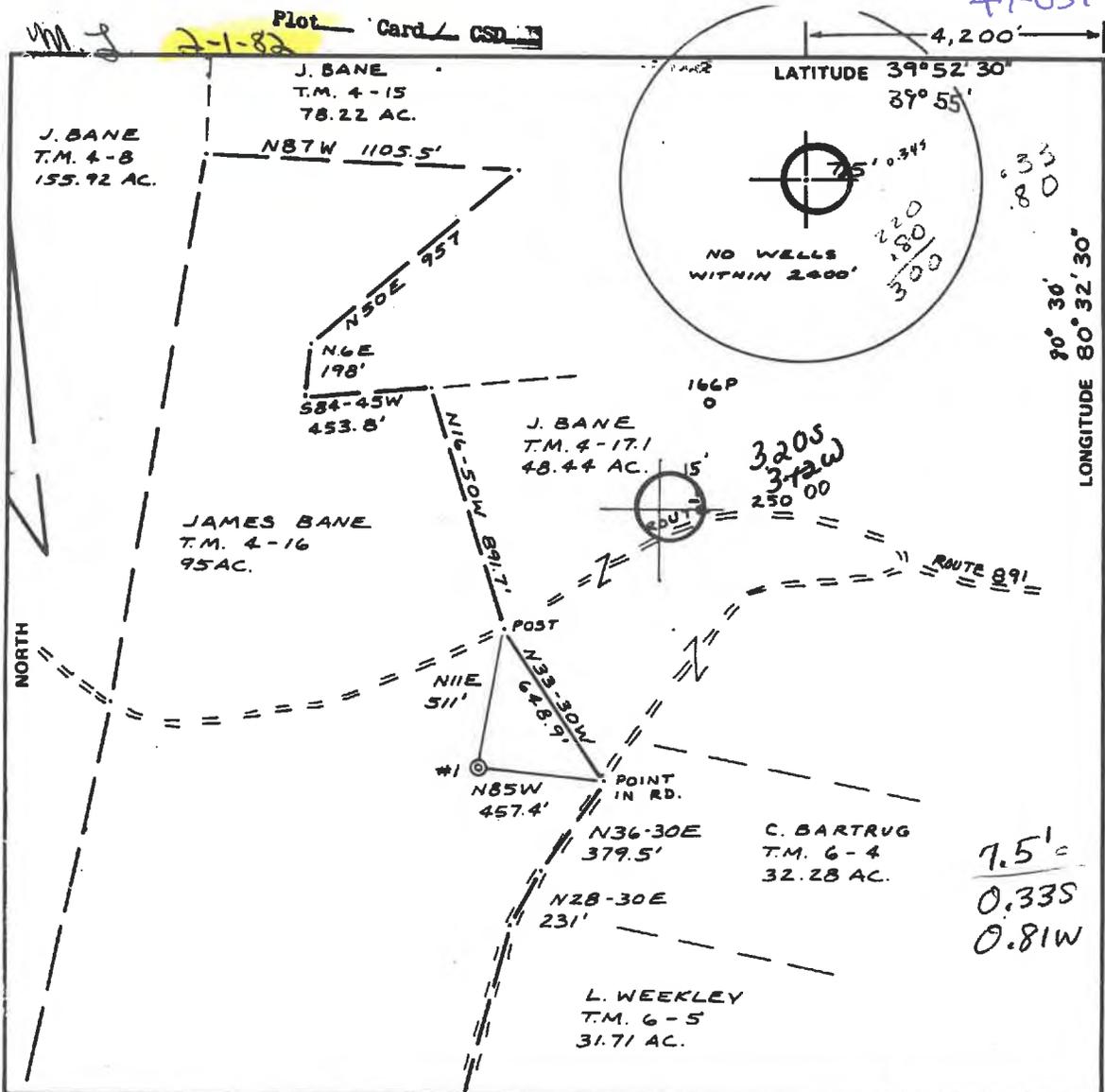
Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

Land Owner Constructed During Review



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Environmental Protection

47-051-00689 P



FILE NO. WHITNAM
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION B.M. 1398

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Neal Hughes
 R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE JAN. 28 19 82
 OPERATOR'S WELL NO. J. BANE 1
 API WELL NO. 47-051-689
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

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 NOV 25 2020
 WV Department of Environmental Protection

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1342 WATER SHED GRAVE CREEK
 DISTRICT CAMERON COUNTY MARSHALL
 QUADRANGLE CAMERON 7.5' DIS. EC
 SURFACE OWNER JAMES E. BANE ACREAGE 95
 OIL & GAS ROYALTY OWNER JAMES BANE LEASE ACREAGE 95
 LEASE NO. 1895
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALZANDER ESTIMATED DEPTH 5800
 WELL OPERATOR WHITNAM OIL & GAS DESIGNATED AGENT JOHN E. WILLIAMS
 ADDRESS 100 FRONT ST. MARIETTA, OHIO 45750 ADDRESS RT. 1 BOX 41 LINN, W.VA 26384

FEB 22 1982

WW-4A
Revised 6-07

1) Date: 12/10/19
2) Operator's Well Number M-1611
3) API Well No.: 47 - 051 - 00689

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>James Errol Bane EST ET AL. (C/O Charles E. Phillips)</u>	Name <u>WV Land Resources</u>
Address <u>1161 Rock Hill Lane</u>	Address <u>1 Bridge Street</u>
<u>Wheeling, WV 26003</u>	<u>Monongah, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>James Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 44</u>	Name _____
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>(304) 552-3874</u>	

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

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

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

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



Well Operator WV Land Resources
 By: Jay Hores
 Its: Project Engineer
 Address 8126 Energy Road
Moundsville, WV 26041
 Telephone (304) 843-3565

Subscribed and sworn before me this 30th day of November
Christian K Warfield Notary Public
 My Commission Expires June 10, 2024

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.

47-051-006891

U.S. Postal ServiceTM RECEIPT
CERTIFIED MAILTM (No Insurance Coverage Provided)
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com

Postmark Here

Postage \$
 Certified Fee
 Return Receipt Fee (Endorsement Required)
 Restricted Delivery Fee (Endorsement Required)
 Total Postage & Fees \$

SENT TO James Bane Hill Lane
 1161 Rock WV26003
 Wheeling

Street, Apt. No. or PO Box No.
 City, State, ZIP+4[®]

PS Form 3800, August 2006

James Bane
 1161 Rock Hill Lane
 Wheeling, WV 26003

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 James Bane
 1161 Rock Hill Lane
 Wheeling, WV 26003

NOV 25 2020

WV Department of Environmental Protection



9590 9408 0971 5223 6794 04

2. Article Number (Transfer from service label)
 7010 3090 0002 4255 0493

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee

X

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type

Priority Mail Express[®]
 Registered MailTM
 Registered Mail Restricted Delivery
 Certified Mail[®]
 Certified Mail Restricted Delivery
 Collect on Delivery Restricted Delivery
 Collect on Delivery Restricted Delivery Signature ConfirmationTM
 Insured Mail
 Insured Mail Restricted Delivery (over \$500)

Priority Mail Express[®]
 Registered MailTM
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature ConfirmationTM
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

47-051-00689 P

WW-9
(5/16)

API Number 47 - 051 .00689
Operator's Well No. M-1611

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

Operator Name WV Land Resources OP Code 494525178

Watershed (HUC 10) North Fork of Grave Creek Quadrangle Cameron, WV 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: _____

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 system be used? If so, describe: Yes, Gel circulated from tank thru well bore and returned to the 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? Betonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cuttings 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 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 Jay Hores

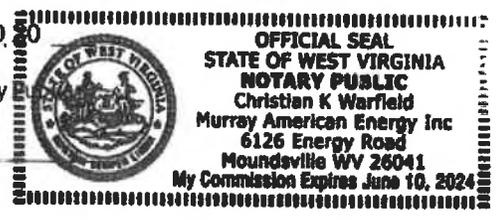
Company Official (Typed Name) Jay Hores

Company Official Title Project Engineer

Subscribed and sworn before me this 30th day of November, 2016

Christian Warfield Notary

My commission expires June 10th, 2024



**MURRAY AMERICAN ENERGY, INC.
& CONSOLIDATION COAL COMPANY**

**MURRAY AMERICAN ENERGY,
INC. & CONSOLIDATION COAL
COMPANY**

46226 National Road
St. Clairsville, OH 43950

phone: 304.843.3565

fax: 304.843.3546

e-mail: JayHores@coalsource.com

JAY HORES

Project Engineer

January 14, 2020

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, Consolidation Coal Company submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil & Gas Pit Waste Discharge Application), Consolidation Coal Company 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,



Jay Hores
Project Engineer

Operator's Well No. M-1611

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____

Lime 3 Tons/acre or to correct 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
and Gas, Erosion and Sediment Control
Field Manual

Seed Mix in accordance with WVDEP Oil
and Gas, Erosion and Sediment Control
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: *Jim Wickert*

Comments: _____

Title: Oil & Gas Inspector

Date: 1/31/2020

Field Reviewed? () Yes () No

N/A

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

Operator Name: WV Land Resources
Watershed (HUC 10): NORTH FORK OF GRAVE CREEK Quad: CAMERON WV,PA
Farm Name: _____

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

[Empty response box for question 1]

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

[Empty response box for question 2]

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

[Empty response box for question 3]

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

[Empty response box for question 4]

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

N/A

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

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

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

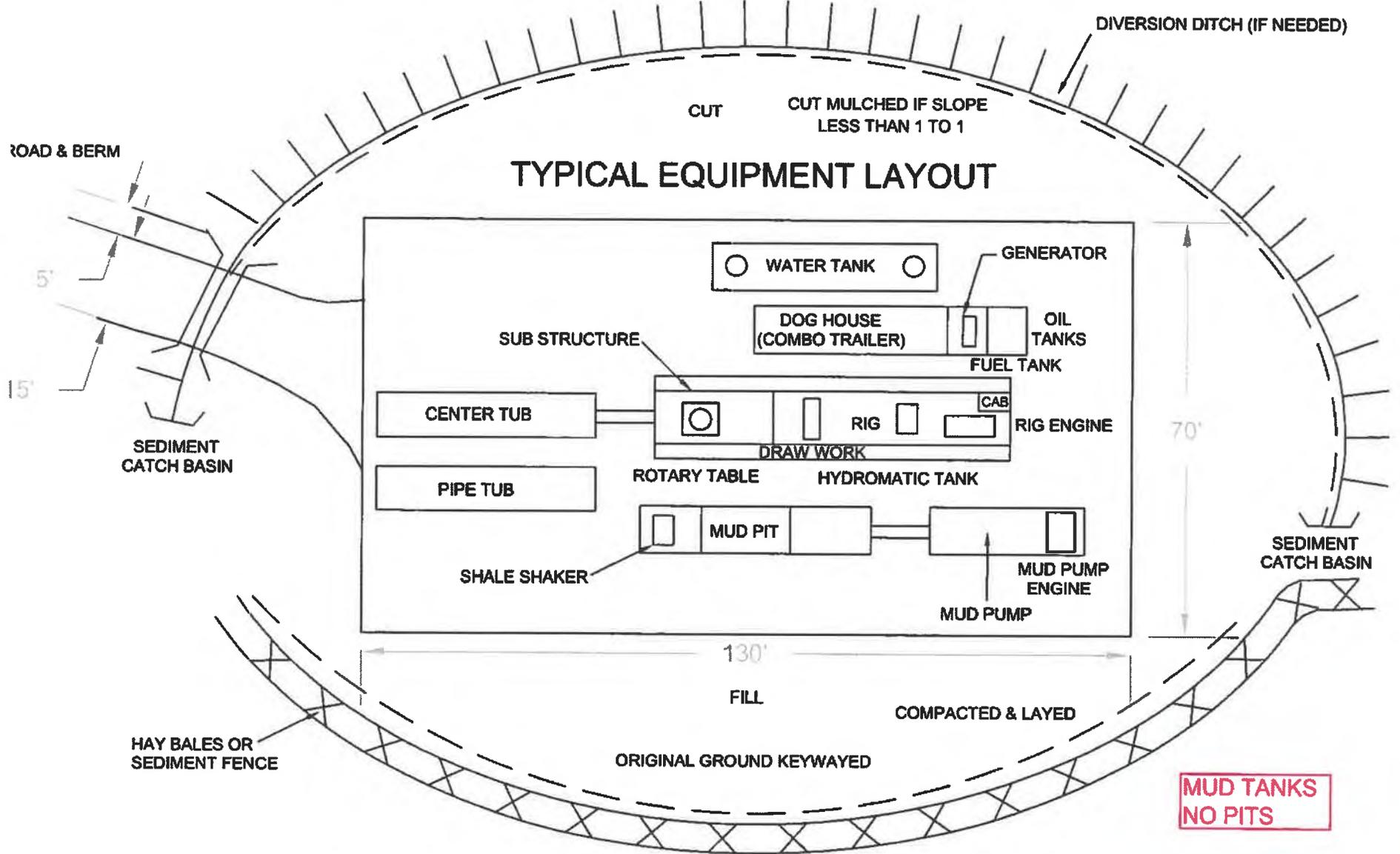
Signature: _____

Date: _____

WV LAND RESOURCES,

CONSOLIDATION COAL COMPANY
NORTHERN WEST VIRGINIA
OPERATIONS

TYPICAL DRAWING OF WELL PLUGGING SITE PLAN



47-051-00689P

STATE OF WEST VIRGINIA
REPRESENTED BY THE
STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
AND OTHER STATE AGENCIES

MOUNDSVILLE 13 MI.
PLEASANT VALLEY 3.8 MI.

4863 1 NE
537 (MAJORSVILLE)

535

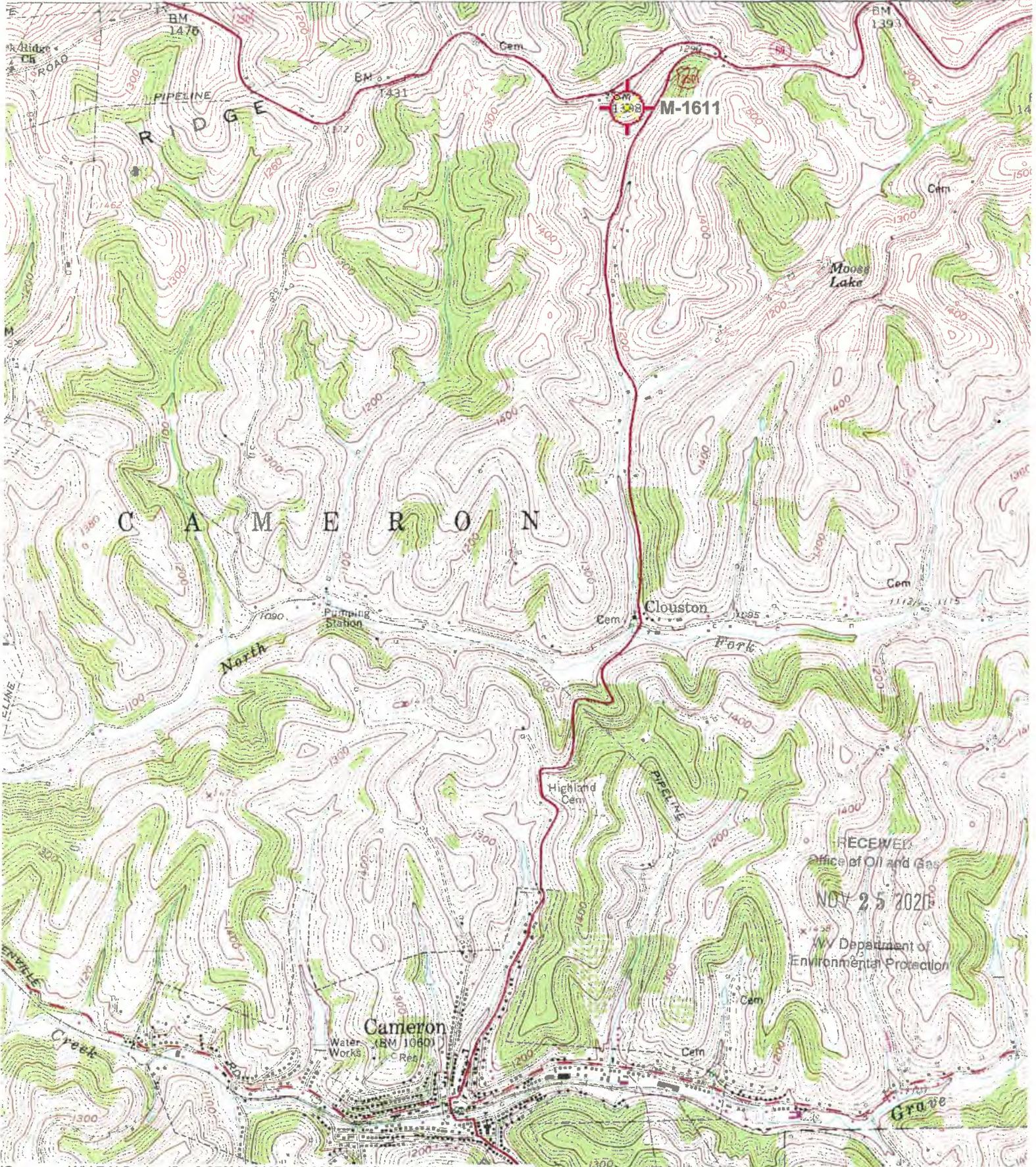
35'

536

538

539

32'30"



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NOV 25 2020
WV Department of
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WW-7
8-30-06



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

API: 47-051-00689 WELL NO.: M-1611

FARM NAME: JAMES BANE

RESPONSIBLE PARTY NAME: West Virginia Land Resources

COUNTY: MARSHALL DISTRICT: CAMERON

QUADRANGLE: CAMERON WV, PA

SURFACE OWNER: JAMES ERCIL BANE EST ET AL (C/O CHARLES E PHILLIPS)

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,413,466 m (1328.4')

UTM GPS EASTING: 537,940 m GPS ELEVATION: 405 m

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

Professional Surveyor

Title

DECEMBER 10, 2019

Date