west virginia department of environmental protection

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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Friday, October 28, 2016
WELL WORK PERMIT
Vertical / Plugging

MINGO LOGAN COAL COMPANY
PO BOX E

SHARPLES , WV 25183

Re: Permit approval for 9755
47-045-00303-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 9755
Farm Name: BOONE COUNTY COAL
U.S. WELL NUMBER: 47-045-00303-00-00
Vertical / Plugging
Date Issued: 10/28/2016

Promoting a healthy environment.

4500303P

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.

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WW-4B
Rev. 2/01

1) Date October 10, 2016
2) Operator's Well No. 9755
3) API Well No. 47- 045 - 00303

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep X / Shallow ____

5) Location: Elevation 1,096' Watershed Spruce Fork of Little Coal River
District Logan County Logan Quadrangle Amherstdale

6) Well Operator Mingo Logan Coal Company
Address P.O. Box E
Sharples, WV 25183

7) Designated Agent Jeffery Roberts
Address P.O. Box E
Sharples, WV 25183

8) Oil and Gas Inspector to be notified
Name ~~Jeremy James~~ JEFFERY SMITH
Address ~~P.O. Box 36~~ 5369 BIG TYLER ROAD
~~Clendenin, WV 25045~~ CROSS LANES, WV 25313

9) Plugging Contractor
Name CJ's Well Service Inc.
Address P.O. Box 133
Rowe, VA 24646

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

See attached exhibits

MSHA Petition for Modification (Docket No. M-2007-007-C) is also included with this permit package for reference to required standards.

SEE EXHIBIT 2 MODIFIED
JWM APPROVED

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

Work order approved by inspector _____ Date _____

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EXHIBIT NO. 1

From prior experience working with different well plugging contractors and evidence of effective and safe plugging, Mingo Logan Coal Company plans to utilize the following typical method for plugging all future gas wells. Mingo Logan has demonstrated this method of plugging offers the same level of protection required by state regulation.

Solid Plug Method

1. **For Active Well:** Clean out well to total depth (TD) and plug in accordance with state regulations and within MSHA 101C Petition requirements to a minimum of 200 feet below lowest minable coal seam.

2. **For Abandoned and/or Plugged Well:** Clean out well to 200 feet below the lowest minable coal seam.

    a. Circulate through tubing or drill steel an expanding cement plug from a minimum 200 feet below lowest minable coal seam to a point 100 feet above minable coal seam.

    b. Circulate through tubing or drill steel from 100 feet above minable coal seam to surface.

    c. Construct monument per state regulations and MSHA 101C Petition with API No. and stating "Solid Plug".

Please note if for any circumstance the method outlined above is not practical due to well conditions or any other factor(s), specific procedures for plugging that particular well shall be submitted with the plugging permit. Plugging will meet state regulation and MSHA 101C Petition standards.

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API: 47-045-00303 P&A

Exhibit 2Modified : Work Order for Plugging Well

- MIRU
- TIH and check TD. Clean to bottom if necessary. TD was ~ 3100'.
- Set bottom hole plug of expanding cement from TD (3100') to bottom of 6 5/8" casing (2341').
- Spot 6% gel. Freepoint, cut and pull 6 5/8" casing out of hole.
- Add expanding cement from 2341' to 100' above the 6 5/8" casing cut, Top of Cement not to exceed 1659'.
- Spot 6% gel.
- Freepoint, cut and pull 8 1/4" casing.
- Add expanding cement from 1659' to 200' below lowest minable coal (705').
- Spot 6% gel.
- Freepoint, cut and pull 10" casing if possible. Add expanding cement from 705' to 226'.
- If 10" cannot be pulled, then follow the requirements of the MSHA Petition from 705' to 226'.
- Perforate or rip 10" casing every 50' from 705' to 226' and set a plug of expanding cement from705' to 226'.
- Set top hole plug of Class A Cement from 226' to surface.
- Set monument to WV State Code.

APPROVED JNM 10/27/16
FOR JEFF SMITH

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EXHIBIT NO. 2

SEE EXHIBIT 2 MODIFIED

CJ's Well

P.O. Box 133
Rowe, VA 24646
276-498-7913
276-498-4506-Fax

Physical Location:
1115 Rock Lick Branch Road
Keen Mountain, VA 24624

October 11, 2016

Mr. Joshua Jackson
Resident Engineer
Mingo Logan Coal Company
PO Box E
Sharples, WV 25183

RE: Plugging Procedures
Gas Well #9755

Mr. Jackson:

CJ's Well Service, inc. is pleased to provide you and your company with a plugging plan to complete Well #9755 near Logan, WV.

Please keep in mind this plugging plan is based on the information taken from the Well Report. If the information provided on the report is not correct, if could change the plan to plug this well. Also, if well conditions are different than expected it could change the plugging plan as well.

- Mobilize rig and equipment to site.
- Notify gas companies to determine that no other wells are associated with this well
- Prepare site access, locate well, install temporary sediment control.
- If well is producing an excessive amount of gas, gel will be pumped down the well bore to kill well.
- Check TD of well.
- Rig up on well.
- Locate freepoint, cut casing and attempt to pull all casing from hole.
- Use expanding cement to plug well from TD to 2500'
- If casing cannot be removed, perforate all casing (if applicable) to 101C standards to 200' below lowest mineable coal seam.
- Use expanding cement to plug well from 200' below the lowest mineable coal seam to surface per MSHA's 101C Petition.
- Depending on site conditions, plugging procedures may be modified after approval of the inspector
- All changes to the plugging procedures will be noted in the plugging affidavit
- Erect permanent monument with API number.
- Rig down and move rig and equipment off location.

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If you have any questions regarding the process of this application, please give me a call at 276-701-1843 to discuss.

Sincerely,

Jackie Lester

Jackie Lester
President

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45 003039

U.S. Department of Labor

Mine Safety and Health Administration
1100 Wilson Boulevard
Arlington, Virginia 22209-3939

OCT 23 2007

In the matter of:
Mingo Logan Coal Company
Mountaineer II Mine
I. D. No. 46-09029

Petition for Modification

Docket No. M-2007-007-C

PROPOSED DECISION AND ORDER

On March 6, 2007, a petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to Petitioner's Mountaineer II Mine located at Sharples, Logan County, West Virginia. The petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

The alternative method proposed by the petitioner is similar to that approved under similar petitions for modification; however, MSHA has added certain conditions.

On July 17, 2007, MSHA conducted an investigation of the petition and filed a report of their findings with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative reports and recommendations, this Proposed Decision and Order (PDO) is issued.

Finding of Fact and Conclusion of Law

The alternative method proposed by the Petitioner (as amended by the recommendations of MSHA) will at all times guarantee no less than the same measure of protection afforded the miners under 30 C.F.R. § 75.1700.

The Mountaineer II Mine operates in the Alma/Cedar Grove coal seam. The mining height averages approximately 6.5 feet and continuous mining sections are used to develop panels for longwall retreat mining.

On the basis of the petition and the findings of MSHA's investigation, Mingo Logan Coal Company is granted a modification of the application of 30 C.F.R. § 75.1700 to its Mountaineer II Mine.

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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 Mountaineer II Mine is hereby:

You can now file your MSHA forms online at www.MSHA.gov. It's easy, it's fast, and it saves you money!

Rcvd 10/27/07
1003221639

GRANTED, subject to the following terms and conditions:

1. **DISTRICT MANAGER APPROVAL REQUIRED**

   a. 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, and previously plugged wells and including water injection wells) until approval to proceed with mining has been obtained from the district manager.

   b. Prior to mining within the safety barrier around any well, the mine operator shall provide to the district manager a sworn affidavit or declaration executed by a company official stating that all mandatory procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order. The affidavit or declaration must be accompanied by all logs described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs that the district manager may request. The district manager will review the affidavit or declaration, the logs, and any other records that have been requested, 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.

   c. The terms and conditions of this Order apply to all types of coal mining.

2. **MANDATORY PROCEDURES FOR CLEANING OUT, PREPARING, PLUGGING, AND REPLUGGING OIL OR GAS WELLS**

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

      (1) The operator shall completely clean out the well from the surface to at least 200 feet below the base of the lowest mineable coal seam, unless the district manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata or due to the pressure within the well (the operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well). The operator shall remove all material from the entire diameter of the well, wall to wall.

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(2) The operator shall prepare down-hole logs for each well. They shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon producing strata and the location for a bridge plug. The district manager may approve the use of a down-hole camera survey in lieu of down-hole logs. 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. If it is not possible to remove all of the casing, then the operator must take appropriate steps to ensure that the annulus between the casing and between the casings and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids. If the casing cannot be removed, it must be cut or milled at all mineable coal seam levels. Any casing that remains shall be perforated or ripped. Perforations or rips are required at least every 50 feet from 200 feet below the base of the lowest mineable coal seam up to 100 feet above the uppermost mineable coal seam. 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 shall 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 that 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 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

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mechanical bridge plug, an appropriately sized packer may be used.

(5) If the uppermost hydrocarbon-producing stratum is within 300 feet of the base of the lowest minable coal seam, 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 of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata or due to the pressure within the well.

b. MANDATORY PROCEDURES FOR PLUGGING OR REPLUGGING 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 replug gas or oil wells to the surface:

(1) The operator shall pump expanding cement slurry down the well to form a plug which runs from at least 200 feet below the base of the lowest mineable coal seam (or lower if required by the district manager based on his judgment that a lower depth is required due to the geological strata or due to the pressure within the well) to the surface. The expanding cement shall 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 4½-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. When the hole cannot not be marked with a physical monument (i.e. prime farmland), high-resolution GPS coordinates (one-half meter resolution) are required.

c. MANDATORY PROCEDURES FOR PLUGGING OR REPLUGGING OIL AND GAS WELLS FOR USE AS DEGASIFICATION BOREHOLES.

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

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(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 of expanding cement below the lowest mineable coal seam, 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 shall 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 30 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 seal degas holes using the following procedures:

(i) The operator shall insert a tube to the bottom of the drill hole or, if not possible, to no greater than 100 feet above the Pittsburgh coal seam. 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 4½-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.

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

The following provisions apply to all wells that the operator determines, and 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 below the lowest mineable coal seam, 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 that 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 intervals of at least 5 feet. Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet below the base of the lowest mineable coal seam 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 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 shall 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 that 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 below the base of the lowest mineable coal seam to a point at least 50 feet above the seam being mined, the operator shall fracture 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.

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The operator shall then pump expanding cement into the fractured well in sufficient quantities and in a manner that fills all intercepted voids.

(5) The operator shall prepare down-hole logs for each well. They shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon-producing strata and the location for the 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. The district manager may approve the use of a down-hole camera survey in lieu of down-hole logs if, in his judgment, such logs would not be suitable for obtaining the above-listed data or are impractical to obtain due to the condition of the drill hole. 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, ripped or left in place; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.

(6) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the open portions of both holes 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 4½-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 should discuss the nature of each hole. The district manager may require that more than one method be utilized.

3. **MANDATORY PROCEDURES AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT MANAGER TO MINE WITHIN THE SAFETY BARRIER, OR TO MINE THROUGH A PLUGGED OR REPLUGGED 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 mining through any plugged or replugged well. Upon receipt of any such request, the district manager

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will 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(s) related to the condition of the well or surrounding strata when such conditions are encountered.

b. The operator shall mine through 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 mining-through 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, drivage sights shall be installed on 10-foot centers for a distance of 50 feet in advance of the well. The drivage sights shall be installed in the headgate and tailgate.

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 mine-through (when either the conventional or the continuous mining method is used) is available and operable during all well mine-throughs. 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. All fire hoses shall be connected and ready for use, but do not have to be charged with water, during the cut-through.

e. The operator shall ensure that sufficient supplies of roof support and ventilation materials are available and are 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. Minimum ventilation air quantities to be maintained in the working face during the period from when mining is within 50 feet of the well location until the post cut-through inspection or mining progresses at least 50 feet past the well location, shall be specified in the approved ventilation plan.

g. On the shift prior to mining through the well, the operator shall service all equipment and check it for permissibility.

h. 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 mining through the well.

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i. 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 and immediately prior to mining through it. During the actual cutting process, no individual shall be allowed on the return side until the mine-through has been completed and the area has been examined and declared safe. All workplace examinations shall be conducted on the return side of the shearer while the shearer is idle.

j. 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 mining through 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.

k. When the well is intersected, the operator shall de-energize all equipment, thoroughly examine it, and determine the area is safe before mining is resumed.

l. After a well has been intersected and the working place determined safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the well.

m. 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 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 any use of torches.

n. Non-sparking (brass) tools shall be located on the working section and shall be used to expose and examine cased wells.

o. No person shall be permitted in the area of the mine-through operation except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.

p. 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.

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q. The mine-through operation shall be under the direct supervision of a certified individual. Instructions concerning the mine-through operation shall be issued only by the certified individual in charge.

r. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the mine-through operation 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 mine-through operation and/or a withdrawal of personnel by issuing either a verbal or a 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 of mine-through operations. 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. 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 regarding compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in the mine-through of a well with training regarding the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.

u. The responsible person required under 30 C.F.R. § 75.1501 shall be responsible for well intersection emergencies. The well intersection procedures must be reviewed by the responsible person prior to any planned intersection.

v. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and firefighting plan required by 30 C.F.R. § 75.1501 The operator shall revise the plans to include the hazards and evacuation procedures to be used for well intersections. All underground miners shall be trained in this revised plan within 30 days of the submittal of the revised evacuation plan.

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Any party to this action desiring a hearing on this matter must file in accordance with 30 C.F.R. § 44.14, within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 1100 Wilson Boulevard, Arlington, Virginia 22209-3939. If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

Terry Bentley

Terry L. Bentley
Acting Deputy Administrator for
Coal Mine Safety and Health

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Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 23rd day of October, 2007, to:

Ms. Julia K. Shreve
Jackson Kelly, PLLC
PO Box 553
Charleston, West Virginia 25322

Mr. Harrison Abbot, Miners' Representative
Mountaineer II Mine
PO Box E
Sharples, West Virginia 25183

Melissa C. Beaty
Melissa C. Beaty
Mine Safety and Health Technician

cc: Mr. Ronald Wooten

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 5

Logan

WELL RECORD

Permit No. LOG 303

Oil or Gas Well _____

Company Hope Natural Gas Company.
Address 445 West Main St., Clarksburg, W.Va.
Farm Boone County Coal Corp. Acres 29,000
Location (waters) _____
Well No. 9755 Elev. 1096
District Logan County Logan
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced November 11, 1952
Drilling completed February 27, 1953
Date Shot not From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 43,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 330 feet _____ feet
Salt water 1450 1645 2065 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	538	538	Size of
8¼	1659	1659	
6⅝	2341	2341	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 10" Gelled to surface SIZE _____ No. Ft. _____ Date _____
7" Gelled to surface.
COAL WAS ENCOUNTERED AT 61 FEET 36 INCHES
326 FEET 72 INCHES 420 FEET 24 INCHES
502 FEET 36 INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	61			
Coal			61	64			
Slate			64	87			
Sand			87	217			
Slate shell			217	289			
Sand			289	305			
Slate shell			305	326			
Coal			326	332	6 bbl. water per hr.	330'	
Lime shell			332	375			
Slate			375	390			
Sand			390	415			
Lime			415	420			
Coal			420	422			
Slate shell			422	502			
Coal			502	505			
Slate shell			505	519			
Sand			519	576			
Slate shell			576	745			
Sand			745	775			
Slate shell			775	850			
Hard sand			850	964			
Slate shell			964	985			
Sand			985	1190			
Slate shell			1190	1351			
SALT SAND			1351	1516	water 2 bbl. per hr	1450	
Slate shell			1516	1550			
Salt sand			1550	1658	hole full water	1645	
Slate			1658	1662			
Sand			1662	1695			
Slate shell			1695	1760			
Gray sand			1760	1780			
Slate			1780	1796			
Third Salt			1796	1821			
Slate shell			1821	1887			
Red rock			1887	1910			
Lime			1910	1949			
Red rock			1949	1967			
Slate shell			1967	2052			
MAXON			2052	2076	1 bbl. water per hr.	2065	

(Over)

MAR 1953
WEST VIRGINIA
DEPARTMENT OF MINES

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red rock			2076	2103			
Slate shell			2103	2158			
Red rock			2158	2174			
Lime shell			2174	2182			
Red rock			2182	2186			
Slate shell			2186	2198			
Hard lime			2198	2216			
Slate			2216	2244			
Little Lime			2244	2273			
Pencil cave			2273	2276			
Big Lime			2276	2573	gas 2375	2501 2525	
Red sand soft			2573	2600			
Hard grey sand			2600	2616			
Slate shell			2616	3030			
Br. shale			3030	3056			
BEREA			3-56	3086	gas	3056	
Total depth				3105			

Date March 17, 1953, 19

APPROVED Hope Natural Gas Company, Owner

By (THIS ONLY)

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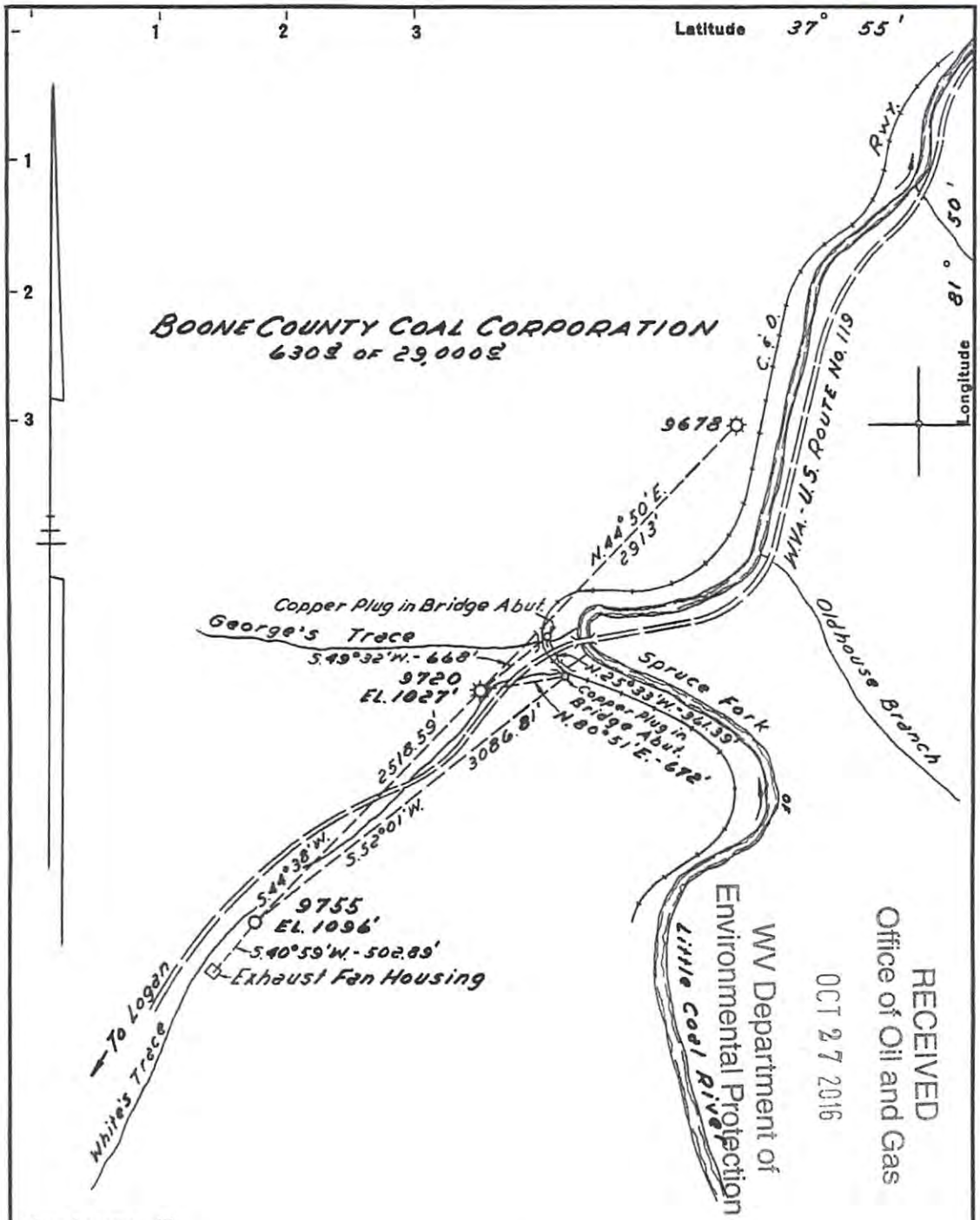

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New Location ☒
Drill Deeper ☐
Abandonment ☐

MAP SH. 184 W. SQ. S.108 W.71 F.B.1047 P.15-18

Company HOPE NATURAL GAS CO.
Address CLARKSBURG, W.VA.
Farm BOONE COUNTY COAL CORP.
Tract _____ Acres 29,000 Lease No. 60352
Well (Farm) No. _____ Serial No. 9755
Elevation (Spirit Level) 1096'
Quadrangle LOGAN AMHERSTDALE 7.5'
County LOGAN District LOGAN
Engineer Guy H Bradley
Engineer's Registration No. 2425
File No. _____ Drawing No. _____
Date JULY 23, 1952 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. LOG-303

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

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

"IMPERIAL" TRACING CLOTH
K & E CO., N.Y.

3504

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WW-4A
Revised 6-07

1) Date: October 10, 2016
2) Operator's Well Number
9755

3) API Well No.: 47 - 045 - 00303

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

4) Surface Owner(s) to be served:
(a) Name: United Affiliates Corporation Waiver
Address: 1005 Glenway Avenue
Bristol, VA 24201

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name: Mingo Logan Coal Company Waiver
Address: P.O. Box E
Sharples, WV 25183

(b) Coal Owner(s) with Declaration
Name: United Affiliates Corporation Waiver
Address: 1005 Glenway Avenue
Bristol, VA 24201

Name
Address

6) Inspector: Jeremy James
Address: P.O. Box 36
Clendenin, WV 25045
Telephone: (304) 951-2596

(c) Coal Lessee with Declaration
Name: Mingo Logan Coal Company Waiver
Address: P.O. Box E
Sharples, WV 25183

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.

Official Seal
Notary Public, State Of West Virginia
Cynthia Hinkle
HC 71 Box 79
Whamcliffe WV 25651
My commission expires September 13, 2022

Well Operator: Mingo Logan Coal Company
By: Jeffery E. Roberts
Its: Designated Agent
Address: P.O. Box E
Sharples, WV 25183
Telephone: (304) 369-7503

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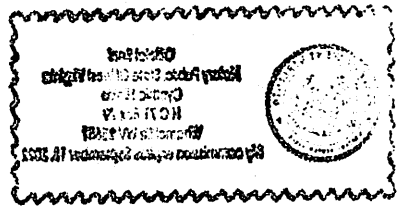
Office of Oil and Gas
OCT 27 2016
WV Department of
Environmental Protection

Subscribed and sworn before me this 10th day of October, 2016
Cynthia Hinkle Notary Public
My Commission Expires 9-13-2022

Oil and Gas Privacy Notice

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



45 00303P

SURFACE OWNER WAIVER

Operator's Well Number 9755

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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

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

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

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

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

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

FOR EXECUTION BY A NATURAL PERSON ETC.

_____ Date _____
Signature

FOR EXECUTION BY A CORPORATION,

Name United Affiliates Corporation
By Martin L. Kent
Its President & CEO Date 10/17/16
Signature [signature] Date 10/17/16

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WW-4B

API No. 47-045-00303
Farm Name Boone County Coal Corporation
Well No. 9755

INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE

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

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

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

WAIVER

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

UNITED AFFILIATES CORPORATION

Date: 10/17/16

By: Martin L. Kent

Its President & CEO

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Environmental Protection

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WW-4B

API No. 47-045-00303
Farm Name Boone County Coal Corporation
Well No. 9755

INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE

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

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

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

WAIVER

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

Date: 10/06/16

Mingo Logan Coal Company
By: Brad D. Ball
Its Power of Attorney

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POWER OF ATTORNEY

MINGO LOGAN COAL COMPANY
TO
BRADLEY D. BALL

Dated: January 1, 2016

Expires: December 31, 2016

KNOW ALL MEN BY THESE PRESENTS: That Mingo Logan Coal Company, a corporation organized and existing under the laws of the State of Delaware (the "Corporation"), acting by and through Robert G. Jones, its duly authorized Secretary, has and does hereby appoint Bradley D. Ball its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Corporation, during the period specified above, and subject to the restrictions and limitations set forth in this Power of Attorney to execute and deliver in the ordinary and regular course of the Corporation's business, applications for any and all permits, bond releases, amendments, supplements or modifications pertaining to surface disturbance of mining permits; water-related permits or other such amendments, supplements or modifications, quarterly discharge monitoring reports or water monitoring reports pertaining to surface coal mining operations; any and all licenses and plan submittals and other like documents pertaining to underground mining issues; air-related permits or other such amendments, supplements or modifications, and monitoring reports arising from emissions affecting air quality pertaining to surface coal mining operations; and waste-related permits or other such amendments, supplements or modifications, and monitoring reports related to generation, transportation or disposal of wastes of any nature or type pertaining to the Corporation's coal mining operations in West Virginia.

The Attorney herein appointed shall be authorized to act hereunder from the date hereof only so long as such Attorney shall remain an employee of Arch Coal, Inc. or any subsidiary thereof, or until December 31, 2016, or until such earlier time as this instrument has been revoked, annulled, rescinded or set aside by an instrument of revocation filed with the Secretary of the Corporation, whichever first occurs.

IN WITNESS WHEREOF, the Corporation has caused this Power of Attorney to be executed on its behalf, and its seal to be hereunto affixed as of the day and year first above written, by the undersigned, Robert G. Jones, duly authorized Secretary of the Corporation.

MINGO LOGAN COAL COMPANY

By: _____
Robert G. Jones
Secretary

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STATE OF MISSOURI)
) ss
COUNTY OF ST. LOUIS)

On this 16th day of December, 2015, before me, the undersigned notary public, personally appeared Robert G. Jones, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

My Commission Expires: December 1, 2017

PEGGY FELDMANN
Notary Public - Notary Seal
State of Missouri
Commissioned for St. Louis County
My Commission Expires: December 01, 2017
Commission Number: F13552693

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WW-9
(5/16)

API Number 47 - 045 - 00303
Operator's Well No. 9755

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

Operator Name Mingo Logan Coal Company OP Code _____

Watershed (HUC 10) Spruce Fork of Little Coal River Quadrangle Amherstdale (209)

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: N/A

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

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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

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

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

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OCT 27 2016
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Environmental Protection

Company Official Signature _____

Company Official (Typed Name) Jeffery E. Roberts

Company Official Title Designated Agent

Subscribed and sworn before me this 10th day of October, 2016

_____ Notary Public

My commission expires 9-13-2022

Official Seal
Notary Public, State Of West Virginia
Cynthia Hinkle
HC 71 Box 79
Whamcliffe WV 25651
My commission expires September 13, 2022

4500303P

Form WW-9

Operator's Well No. 9755

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount 500 lbs/acre

Mulch Hay Bales Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	50	Orchard Grass	50
White Clover	3	White Clover	3

Attach:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? (_____) Yes (_____) No

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Mingo Logan Coal Company
Mountaineer II Mine
P.O. Box E, Sharples, WV 25183

October 10, 2016

WV Department of Environmental Protection
Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304

To Whom It May Concern:

As per the WV Department of Environmental Protection, Office of Oil & Gas request, Mingo Logan 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), Mingo Logan Coal Company will construct no pits, but instead utilize mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be properly disposed of to an approved offsite facility that can handle the material.

Sincerely,

Jeffery E. Roberts
Designated Agent

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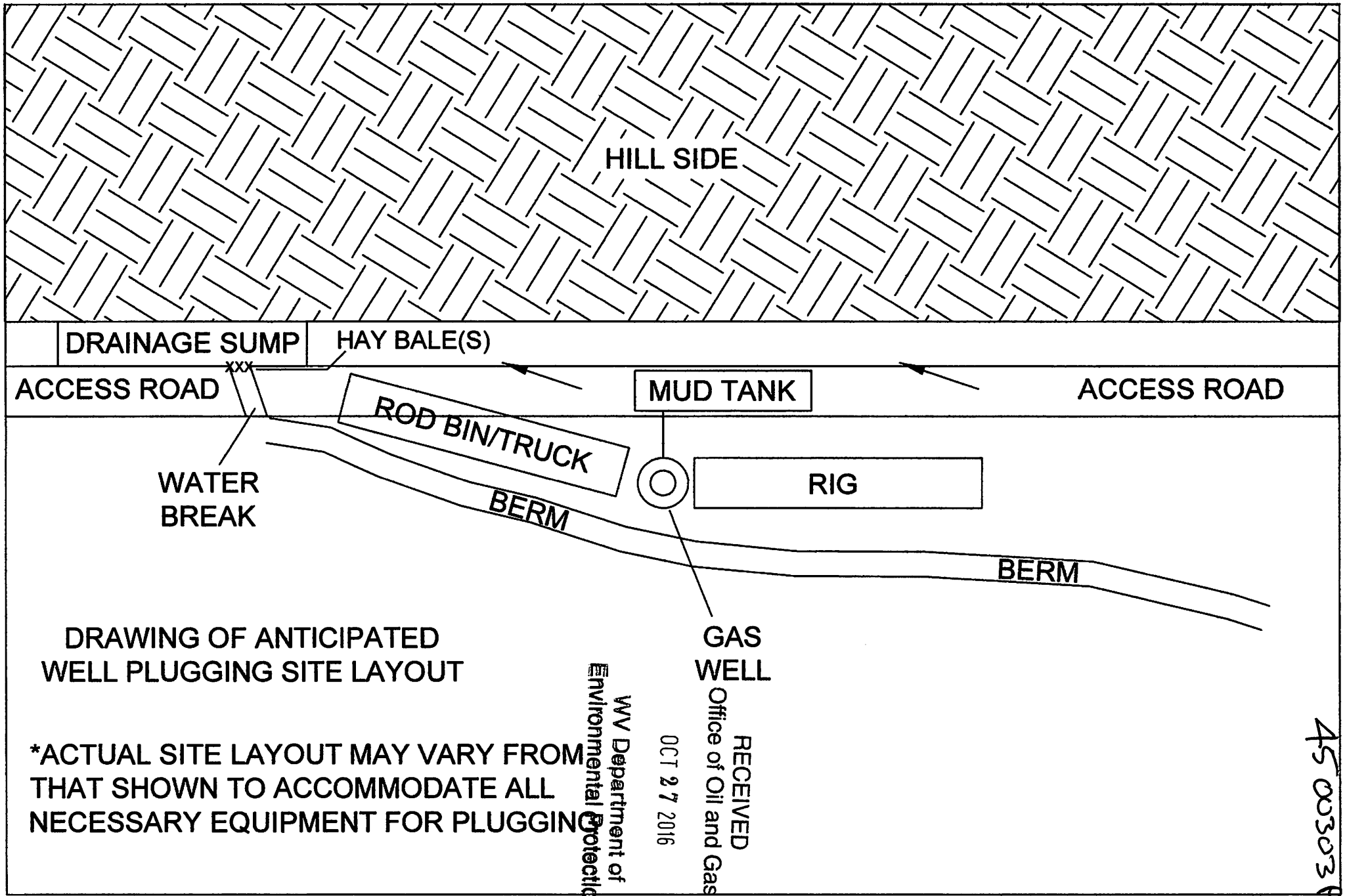

DRAWING OF ANTICIPATED WELL PLUGGING SITE LAYOUT

*ACTUAL SITE LAYOUT MAY VARY FROM THAT SHOWN TO ACCOMMODATE ALL NECESSARY EQUIPMENT FOR PLUGGING

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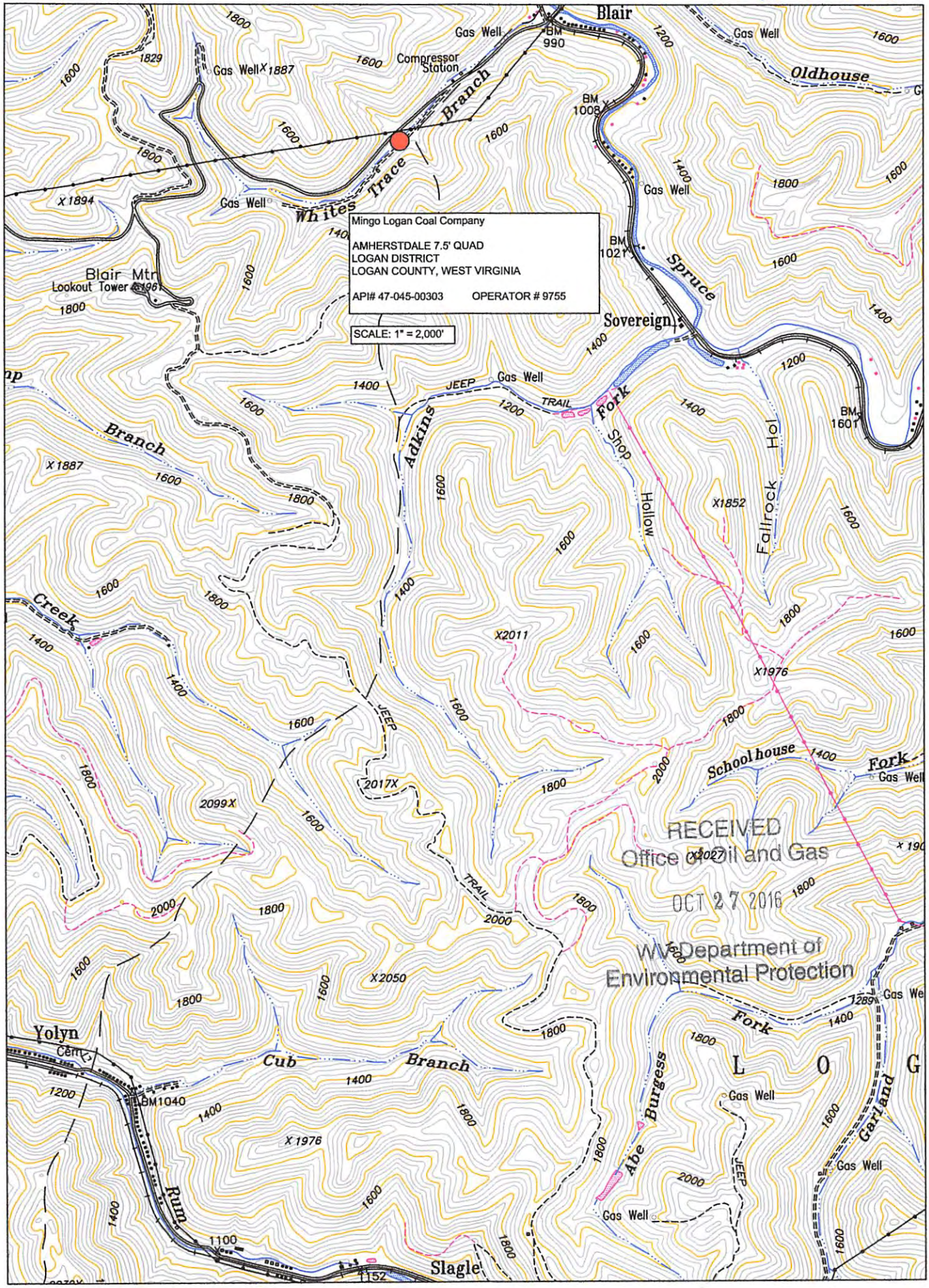

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4500303 P

WW-7
8-30-06

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

API: 47-045-00303 WELL NO.: 9755

FARM NAME: Boone County Coal Corporatation

RESPONSIBLE PARTY NAME: Mingo Logan Coal Company

COUNTY: Logan DISTRICT: Logan

QUADRANGLE: Amherstdale

SURFACE OWNER: United Affiliates

ROYALTY OWNER: United Affiliates

UTM GPS NORTHING: 425994.0

UTM GPS EASTING: 4191631.5 GPS ELEVATION: 333.905

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 X : Post Processed Differential X

Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____

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 Power of Attorney Title 10/27/16 Date