

#### west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, July 17, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

WOLF RUN MINING LLC 100 TYGART DR

GRAFTON, WV 26354

Re: Permit approval for 12382 47-001-00958-00-00

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: 12382

Farm Name: CLEMENTA PROUDFOOT H

U.S. WELL NUMBER: 47-001-00958-00-00

Vertical Plugging
Date Issued: 7/17/2020

### **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.

WW-4B Rev. 2/01

1) Date May 1				,	20 <b>20</b>		
2) Ope:	rator	's					
Wel.	l No.	12382					
3)API	Well	No.	47-001		- 00958P	P	_

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

#### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

APPLICATION FOR A PER	NIII 10 PLOG AND ABANDON				
4) Well Type: Oil/ Gas/ Liqu	id injection/ Waste disposal/				
(If "Gas, Production $\_$ or U:	nderground storage) Deep/ Shallow $X$				
40051	Pleasant Crack				
5) Location: Elevation 1295'	Watershed Pleasant Creek				
District Pleasant	County Barbour Quadrangle Philippi (545)				
6) Well Operator Wolf Run Mining LLC	7) Designated Agent Charles E. Duckworth				
Address 100 Tygart Drive	Address 100 Tygart Drive				
Grafton, WV 26354	Grafton, WV 26354				
8) Oil and Gas Inspector to be notified	9)Plugging Contractor				
Name Kenneth Greynolds	Name Coastal Drilling East, LLC				
Address 613 Broad Run Road	Address 130 Meadows Ridge Road				
Jane Lew, WV 26378	Mt. Morris, PA 15349				
See Exhibit Nos. 1 and 2 and MSHA 101-C  Wolf Run Mining LLC (47-001-00288)  Sentinel Mine (MSHA ID# 46-04168)  MSHA 101-C Docket No. M-2012-002-C	RECEIVED Office of Oil and Gas  MAY 26 2020  WV Department of Environmental Protection				
Appropriate coal seam top = LK Sear	m = 670.17', Clarion Seam = 730.8'				
Approximate coal seam bottom = LK	Seam = 674.77', Clarion Seam = 736.02'				
•	,				
work can commence.	oil and gas inspector 24 hours before permitted				
Work order approved by inspector	16 August Date 5-12-20				

#### EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Wolf Run Mining LLC 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 abaudove well Clean out to first plug 200 feet below lowest minable coal seam.
  c) Circulate through tubing or drill steel an expanding 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 from 100 feet above coal seam to surface.

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

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MAY 26 2020

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47-001-00958P

### Exhibit 2

### Well Plugging Plan - Gas Well 47-001-00958P

Farm name/well number: John Proudfoot/12382

- Cleanout existing 8 5/8" casing from surface to 739' top of 4 ½" casing. Continue to clean hole inside 4 ½" casing from 739' to 1395' through the first cement plug, to 1395'. (The 1395' elevation point is 100' below sea level.)
- Log hole from 1395' to surface (caliper, collar locator, gyro, gamma and bond log).
- Cut and remove 4 ½" casing from 739' to 770' or below the proposed section mill window.
- Cement bottom hole from 1395' back to 937' (200' below Clarion Coal Seam)
   with 40 sacks of Class A cement. Estimated LK coal depth is 670' to 675'.
   Estimated Clarion depth is 731' to 736'. Wait for cement 8 hours. Tag bottom hole plug at 1137'.
- Section mill 25' window (660' to 685') in 8 5/8" casing, through Lower Kittanning
   Coal Seam. Section Mill 28' window (718' to 746') in 8 5/8" casing, through
   Clarion Coal Seam.
- Clean hole back to surface from bottom plug at 937'. Log hole to verify window placement in 8 5/8" casing.
- Cement hole from 937' to surface with 110 sacks of Thixotropic cement and 140 sacks of Class A.
- · Install well marker as required at surface.

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## U.S. Department of Labor

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



SEP 3 0 2013

In the matter of: Wolf Run Mining Company

MSHA 101 C

Sentinel Mine I. D. No. 46-04168

EXEMPTION .

Docket No. M-2012-002-C

Petition for Modification

### PROPOSED DECISION AND ORDER

On January 1, 2012, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Sentinel Mine located near Buckhannon in Upshur 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.

On July 3, 2012, MSHA conducted an investigation of the petition and filed a report of their findings and recommendations 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.

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Finding of Fact and Conclusion of Law

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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 CFR 75.1700:

The Sentinel Mine operates in the Clarion coal seam and the mining height averages approximately 84 inches. The mine has three working sections utilizing continuous miners and produces approximately 8,000 tons of raw coal per day. Oil and gas production in this area includes older wells completed in the salt sands and newer wells that are targeting the Marcellus shale.

On the basis of the petition and the findings of MSHA's investigation, Wolf Run Mining Company, is granted a modification of the application of 30 CFR 75:1700 to its Sentinel 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 Sentinel Mine is hereby:

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GRANTED, subject to the following terms and conditions:

MAY **26** 2020

## 1. DISTRICT MANAGER APPROVAL REQUIRED

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- 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.
- 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 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.
- 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

MAY 26 2020

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

- (1) 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 ft. below the base of the lowest mineable coal seam, unless the district manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well (the operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well). If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the base of the lowest mineable coal seam. The operator shall remove all material from the entire diameter of the well, wall to wall.
- The operator shall prepare down-hole logs for each well. They shall (2) 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 which remains shall be perforated or ripped. 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

MAY 26 2020

coal seam up to 100 feet above the uppermost mineable coal seam in the operator, using a casing bond log, can demonstrate to the satisfaction of the district manager that all annuli in the well are

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 (potential to cut uncured cement), 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.
- (5) If the upper-most 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 (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.

# 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:

MAY 26 2020

- (1) The operator shall pump expanding cement slurry down theronmental Protection 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 lowest mineable coal seam (or lower if required by the district manager based on his judgment that a lower depth is required due to the geological strata, or due to the pressure within the well) to the surface. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. Portland cement or a lightweight cement mixture may be used to fill the area from 100 feet above the top of the uppermost mineable coal seam (or higher if required by the district manager based on his judgment that a higher distance is required due to the geological strata, or due to the pressure within the well) to the surface.
- (2) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 41/2 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.

# 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:

(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 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 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.

MAY 26 2020

. WV Department of Environmental Protection

- (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 at least 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'/2 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.
- d. MANDATORY ALTERNATIVE PROCEDURES FOR PREPARING AND PLUGGING OR REPLUGGING OIL OR GAS WELLS:

MAY 26 2020

The following provisions apply to all wells which the operator determines, and the MSHA dietwick managers and the MSHA dietwick managers. 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 (400 feet if the total well depth is 4,000 feet or greater) 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 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 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 (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 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 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 lowest mineable coal seam to a point at least 50 feet above the seam being mined, the operator shall fracture in at least six places (12 places if the total well depth is 4,000 feet or greater) at intervals to be agreed upon by the operator and the district manager after considering the

MAY 26 2020

geological strata and the pressure within the well. The operator shall the pressure within the well. The operator shall the horizonmental Protection pump expanding cement into the fractured well in sufficient quantities and in a manner which fills all intercepted voids.

- 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 or 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 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 1/2 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.

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

MAY 26 2020

- A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA district manager may request that WV Department of a conference be conducted prior to mining through any plugged or replugged 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(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.
- 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 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.
- 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.
- On the shift prior to mining through 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.

MAY 26 2020

- g. The operator shall calibrate the methane monitor(s) on the longwall, Environmental Protection continuous mining machine, or cutting machine and loading machine on the shift prior to mining through 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 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 will be conducted on the return side of the shearer while the shearer is idle.
  - 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 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.
- j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area is safe before mining is resumed.
- k. 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.
- 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.
- m. Non-sparking (brass) tools will be located on the working section and will be used to expose and examine cased wells.

MAY 26 2020

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.

WV Department of Environmental Protection

- 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 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.
- q. 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 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.
- r. A copy of this Order shall be maintained at the mine and be available to the miners.
- 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.
- t. The responsible person required under 30 C.F.R. § 75.1501 is responsible for well intersection emergencies. The well intersection procedures should be reviewed by the responsible person prior to any planned intersection.

MAY 26 2020

u. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved mine emergency evacuation and irrefighting plan required by 30 CF.R § 75.1501 The operator will revise the plans 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 the submittal of the revised evacuation plan.

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days. The request for hearing must be files 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 sire. 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.

Charles J. Thomas

Deputy Administrator for

Coal Mine Safety and Health

MAY. 26 2020

WV Department of Environmental Protection

#### Certificate of Service

I hereby certify that a copy of this Proposed Decision and Order was served personally or mailed, postage prepaid, this day of the day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or mailed, postage prepaid, this day of the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personally or the proposed Decision and Order was served personal perso

Mr. Nathan Sypolt Project Engineer Wolf Run Mining Company 99 Edmiston Way Buckhannon, WV 26201

> SeDonia Little Secretary

cc: Mr. C.A. Phillips, Acting Director
Office of Miners' Health Safety & Training,
Dept of Energy, Division of Mines & Minerals
1615 Washington Street
Charleston, WV 25311

FC4M 00-8

# STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

#### AFFIDAVIT OF PLUGGING AND FILLING WELL

	D BE MADE IN TRIPLICATE, ON THIRD COPY IAND EXTRA COPIES IF REQUIR					
	Corporation	Consc	Olidated Gas Supp			
Rt. 3, Rox 11	h, Philippi, WV 26416	•				
Republic Stee	Corporation		pril 28, WELL AND LOG	AYION	19.R2	
	h. Philippi, W 26416	_Pleas		JATION	_District	
W. Buford Cle		_Parbo	ur		_County	
Rt. 2. Florin		Well N	o 12382			
	ADDRESS	John	H. Proudfoot		Farm	
STATE INSPECTOR	SUPERVISING PLUGGING Robe	rt Stewar	t. P. C. Box 3/19	. Jane Le		
		DAVIT	r v v vil v v v v v v v v v v v v v v v v			
STATE OF WES'		DKALL				
County of Harr	ison ss:					
Dartell B	lush	and Dan	del Stuart			
	wom according to law depose	and say th	iat they are experie			
plugging and fillin well operator, and	g oil and gas wells and were en participated in the work of pl	mployed by	Consolidated G	as Supply	Corn.	
	n the 5th day of March					
and filled in the fo	ollowing manner:		,,	ic iven was	Pro99ca	
BAND OR ZONE RECOR	PILLING MATERIAL		PLUGB USES	CA	BING	
PORMATION			SIZE & KIND	CSG	CBG LEFT 10	
	Cement 1897 - 7711				3/1"	
	Open 771 - surface			0	361	
				ρ	5/8"	
				0	1367	
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<del></del>	1928	STAPPE	<b>D</b>	739	1264	
		- G G		1		
	APR 2	9 1982				
	OIL AND	GAS DIVISION	N			
	WV DEPAR	TMENT OF MIN	ES			
COAL SEAMS			DESCRIPTION	N OF HONUME	NT	
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ME)						
(ME)						
ME)						
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	c of plugging and filling said	well was o	completed on the	-91.h	-uay u	
and that the work	of plugging and filling said , 19_82 eponents saith not.	well was	completed on the	uch		
and that the work  Narch  And further de	, 19 <u>_82</u>	Ha	well O. B	uch	19_82_	
and that the work  Narch  And further de	ponents saith not. subscribed before me this 2f	Ha	well O. B	uch	19 <u>82</u>	

OG-10 Rev. - 9-71



## STATE OF WEST VIRGINIA

# DECEIVE JUL 1 9 1978

OIL & GAS DIVISION

Gas\_\_Y\_\_\_

Rotary\_\_\_\_ Oil\_

Cable\_

RECEIVED
Office of Oil and Gas

MAY 26 2020

DEPT. OF MINES

WV Department of Environmental Protection

# DEPARTMENT OF MINES Oil and Gas Division

# WELL RECORD 4

Quadrangle Philippi Recycling\_\_\_ Comb.\_\_ Water Flood\_\_ Storage\_ Permit No. BAR-958 Disposal\_ (Kind) Company Consolidated Gas Supply Corp. Casing and Used in Left Cement fill up Address 1/15 W. Main St., Clarksburg, W. Va. Tubing Drilling in Well Cu. ft. (Sks.) Farm John H. Proudfoot Acres 11:3 Location (waters) <u>"leasant Creek</u> Size Well No. 123º2 \_ Elev. 1.2951 20-16 District Pleasant County Barbour Cond. The surface of tract is owned in fee by\_\_\_\_ 18/10/ 11 3/1 364 36h. To surface W. Buford Clevenger 9 5/8 8 5/8 Address R. D. 2, Blemington, WV. 13671 1367 To surface Mineral rights are owned by Clementa R. Proudfoot,

Agt. Address 118 Mason St., Philippi, WV 5 1/2

Well treatment details:

Perforated 1887 - 1897! with 20 holes.

Drilling Commenced March 21, 1978

Attach copy of cementing record.

18991

18991

170 sks.

*More shale than coa	1	<del></del>				<del></del>
Coal was encountered at 3250! 71.5!	_Feet_	∌\ <b>.</b> 8•	50"	Inches		
			_ Salt Water.		Fee	t
Producing Sand Gant 2 "A"			Denth	18801		

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Rei	narks
Top Soil	0	5			
Shale % Sand	۲ ح	70	Fresh water	301	
Red Rock Thale	70	95	1	J.,	
Sand & Shale	35	155			
Red Rock Shale	155	160			
Sand & Shale	160	250			
Shale with Coal	250	251,			
Shale	254	260			
Red Rock & Shale	260				
Shale	300	1,7)	İ		
Sand & Shale	1,74	745	Water	6651	l" stream
Coal.	71,5	750	Water	7501	1 1/2" strea
White Sand	750	380	1	1 50	T T'S SOLES
Sand Shale	880	900			
White Sand	200	1020			
Sand Shale	1020	1035			
White Sand	1035	1250			
Red Rock	1260	1300			
Shale & Sand	1300	1555	ļ		
Little Lime	1555	1580			
Sand Shale	1590	1595			
Big Lime	าราร	1655	-aver		
Sand Shale	1455	2020	T.U.		
KBM 10' above G.L.		2011	A • 17 •		

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

formation Color Hard or Soft	Top Feet 4	Bottom Feet	Oil Gus or Water Remarks	Section and the section of the secti
Gamma Ray Low Tops Little Lime Big Lime Big Injun Gantz Lantz A GO! Cotal Depth	1400 1145 1826 1809 1932	1h18  1630 1855 1926  2010		Office of Oil and Gas
			Consolidated Gas Supply Corp. Nd5 West Main Street Clarksburg, W. Va. 26301	WV Department of Environmental Protecti

Date July 17

10 78

APPROXED Consolidated Gas Shoply Corp. Owner

Manager of Prod.

C20

#### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES

# RECEIVED

OIL AND GAS WELLS DIVISION

MAR 1 1 1982

### INSPECTOR'S PLUGGING REPORT OIL AND GAS DIVISION

Permit Na. 201-0958-	P				Na 12352
COMPANY Cousoli	DATED (	57.5	ADDRESS BRIDG	e.PoRT	
FARM JOHN H.	PROUD FOOT	DISTRICT.	PRESANT C	OUNTY <u>BAR</u>	BOUR
Filling Material Used C	PEMENT	$=\mathcal{E}_{j}$	K PANDING		
Liner Lo	eation .	Amount	Packer	Location	
PLUGS UGED A	and depth placed		BRIDGES	1	AND TUBING
CEMENT-THICKNESS	W00D-612E	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE LOST
	Ţ			-	
•					
· ·					
£					
The second secon	1.6				
Drillers' Namea (7)	ChrATEN	(0.4.5	SPUDDER.		
Drillers' Names / P. P. P. Remarks:	BURTON				
PUMP 60 5 NOT GO F MILL DRILL & PULL, MEG & EMSHAW F	RS EXPANDROSSORE CEMEN  CEMEN  REP. NIII	DRILL CO DRILL CO DRILL CO	-3500 # 2 BB/ -3500 # 2 BB/ TO 770 + COMPLETE TO Y COMPLETE		
3-9-92 DATE	I hereby certify I v	isited the above	e well on this date.  Ralle F-E	temant	, 511 -

WW-4A Revised 6-07

May 1, 2020 1) Date: 2) Operator's Well Number 12382

3) API Well No.: 47 -

001 00958P

STATE OF WEST VIRGINIA

PROTECTION, OFFICE OF OIL AND GAS RECEIVED

RECEIVED

Of Oil and Gas STATE OF WEST VIRGINIA NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL MAY 2 6 2020

4)	Surface Ow (a) Name	ner(s) to be served: Clementa Proudfoot Hrs.	5) (a) Coal Operator Name	CoalQuest Development, LLC	WV Department of Environmental Protection
	Address	181 Virginia Avenue	Address	100 Tygart Drive	
		Winter Park, Florida 32789		Grafton, West Virginia 26354	
	(b) Name		(b) Coal Own	ner(s) with Declaration	
	Address		Name		
			Address		
	(c) Name		Name		
	Address	-	Address		
3)	Inspector	Kenneth Greynolds	(c) Coal Less	see with Declaration	
	Address	613 Broad Run Road	Name		
		Jane Lew, WV 26378	Address		
	Telephone	(304) 206-6613			

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

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

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 Wolf Run Mining LLC By: Charles E. Duckworth Its: Designated Agent 100 Tygart Drive Address Grafton, West Virginia 26354 (304) 265-9704 Telephone

Subscribed and sworn before me this

day of May 2020

My Commission Expires

December 22, 2024

OFFICIAL SEAL

Morgantown, WV 26501

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.

47-001-00958P

#### **POWER OF ATTORNEY**

# COALQUEST DEVELOPMENT LLC TO GREG NAIR

RECEIVED Office of Oil and Gas

MAY 26 2020

WV Department of Environmental Protection

Dated: January 1, 2020

Expires: December 31, 2020

KNOW ALL MEN BY THESE PRESENTS: That CoalQuest Development LLC, a limited liability company formed under the laws of the State of Delaware (the "Company"), acting by and through Robert G. Jones, its duly authorized Secretary, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period herein specified, and subject to the restrictions and limitations set forth in this Power, to execute, acknowledge and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety, and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates, gas well plugging applications, shallow well drilling permit applications, or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

The Attorney herein appointed shall be authorized to act pursuant to this Power 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, 2020, 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 Company, whichever first occurs.

IN WITNESS WHEREOF, the Company 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 Company.

COALQUEST DEVELOPMENT LLC

Robert G. Jones

Secretary

47-001-009588

RECEIVED Office of Oil and Gas

MAY 26 2020

STATE OF MISSOURI	)	
	) :	SS
COUNTY OF ST. LOUIS	)	

WV Department of Environmental Protection

On this /3 May of December, 2019, 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.

PEGGY FELDMANN
Notary Public - Notary Seal
State of Missouri
Commissioned for St. Louis County
My Commission Expires: December 01, 2021
Commission Number: F13552693

Notary Public

My Commission Expires: December 1, 3

#### POWER OF ATTORNEY

#### WOLF RUN MINING LLC TO GREG NAIR

Dated: January 1, 2020

Expires: December 31, 2020

KNOW ALL MEN BY THESE PRESENTS: That Wolf Run Mining LLC, a limited liability company formed under the laws of the State of West Virginia (the "Company"), acting by and through Robert G. Jones, its duly authorized Secretary, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period herein specified, and subject to the restrictions and limitations set forth in this Power, to execute, acknowledge and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety, and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

The Attorney herein appointed shall be authorized to act pursuant to this Power 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, 2020, 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 Company, whichever first occurs.

IN WITNESS WHEREOF, the Company 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 Company Oil and Gas

WOLF RUN MINING LLC

MAY 26 2020

WV Department of Environmental Protection

Robert G. Jones

Secretary

STATE OF MISSOURI ) ss COUNTY OF ST. LOUIS )

On this Aday of December, 2019, 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.

PEGGY FELDMANN
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State of Missouri
Commissioned for St. Louis County
My Commission Expires: December 01, 2021
Commission Number: F13552693

Notary Public

My Commission Expires:

December 1, 2021

RECEIVED
Office of Oil and Gas

MAY 26 2020

WV Department of Environmental Protection

# 47-001-009588

#### **SURFACE OWNER WAIVER**

Operator's Well Number

12382		

#### **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

RECEIVED
Office of Oil and Gas

MAY 26 2020

WV Department of Environmental Protection

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

<u>Comments must be in writing.</u> 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.

objection to a permit being issued or FOR EXECUTION BY A NATURAL ETC.	those materials.	planned wor		BY A CORPORATION,
Signature	Date	Name		
Dignature		By Its		Date
			Signature	Date



### WOLF RUN MINING LLC

May 4, 2020

Clementa Proudfoot Hrs. 1818 Virginia Avenue Winter Park, Florida 32789

Re: Plugging Permit – API # 47-001-00958P – Well No. 12382

Office of Oil and Gas

MAY 26 2020

WV Department of Environmental Protection

Dear Ms. Proudfoot:

As required by the permit process of the WV Department of Environmental Protection – Office of Oil and Gas enclosed please find a copy of the plugging permit application for the above referenced well that Wolf Run Mining LLC plans to submit to the WV Department of Environmental Protection, Office of Oil and Gas.

If you have no objection to the plugging, permit application, please sign the page, titled Surface Owner Waiver and return in the enclosed self-addressed stamped envelope.

If you should have any questions concerning this application, please feel free to contact Charles Duckworth at (304) 265-9704 or me at (304) 265-9778 or via email at <a href="mailto:gnair@archcoal.com">gnair@archcoal.com</a>.

Sincerely.

Greg Nair

Manager Surface Mine Planning

Enclosures

CERTIFIED MAIL NO. 7019 0700 0000 1949 2858 RETURN RECEIPT REQUESTED

47-001-00958P	
John H. Proudfoot	
12382	
	John H. Proudfoot

#### 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.

\*\*RECEIVED\*\*
Office of Oil and Gas\*\*

MAY 2 6 2020

WV Department of Environmental Protection

#### WAIVER

The undersigned coal operator	/ owner / lessee / of the co	al under this well location
has examined this proposed plugging wo	rk order. The undersigned has no objection	to the work proposed to be
done at this location, provided, the wel	l operator has complied with all applicable	requirements of the West
Virginia Code and the governing regulati	ons.	
Date: 5/4/2020	CoalQuest Development, LLC	Λ
Date.	By: Greg Nair	-
	Its Power of Attorney	

API Number 47 - 091 \_ 00958P Operator's Well No. 12382

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

RECEIVED
Office of Oil and Gas

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

MAY 2 6 2020

Operator Name Wolf Run Mining LLC	OP Code	WV Department of Environmental Protection
Watershed (HUC 10) Pleasant Creek	Quadrangle Philippi (545)	
Do you anticipate using more than 5,000 bbls of water to complete	e the proposed well work? Yes	No 🗸
Will a pit be used? Yes No		
If so, please describe anticipated pit waste: N/A		
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 N	lumber	)
Reuse (at API Number Off Site Disposal (Supply form WW-9	for disposal location)	)
Other (Explain Tanks - See attached let	ter	
Will closed loop systembe used? If so, describe: Yes, Gel circula	ited from tank thru well bore ad returned to	tank.
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc. freshwater	ater
-If oil based, what type? Synthetic, petroleum, etc		
Additives to be used in drilling medium? Bentonite, Bicarbonate or S	Soda	
Drill cuttings disposal method? Leave in pit, landfill, removed off	fsite, etc removed offisite	
-If left in pit and plan to solidify what medium will be us	ed? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? Wolf Run Mining	LLC - Permit No. O-113-83	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.		
I certify that I understand and agree to the terms and corn on April 1, 2016, by the Office of Oil and Gas of the West Virgin provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action.  I certify under penalty of law that I have personally exapplication form and all attachments thereto and that, based on my the information, I believe that the information is true, accurate, submitting false information, including the possibility of fine or in Company Official Signature	tia Department of Environmental Protect term or condition of the general permit examined and am familiar with the informinguiry of those individuals immediately and complete. I am aware that there a	etion. I understand that the and/or other applicable law ermation submitted on this y responsible for o btaining
Company Official (Typed Name) Charles E. Duckworth		
Company Official Title Designated Agent		
Subscribed and sworn before me this day of May  My commission expires 12/22/2024	OFFICIAL SEAL  NOTARY PUBLIC, STATE OF WEST VIR  Thorias arrocety blice  329 Webstar Avenue  Morganiows, WV 26501	AGINIA S



### WOLF RUN MINING LLC

May 1, 2020

Office of Oil and Gas

MAY 2 6 2020

WV Department of Environmental Protection

WV Department of Environmental Protection Office of Oil and Gas 601 – 57<sup>th</sup> Street, S.E. Charleston, West Virginia 25304

To Whom It May Concern:

As per the WV Department of Environmental Protection, Office of Oil and Gas request, Wolf Run Mining LLC, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil and Gas Pit Waste Discharge Application), Wolf Run Mining LLC, will construct no pits, but instead will use mud tanks to contain all drilling muds.

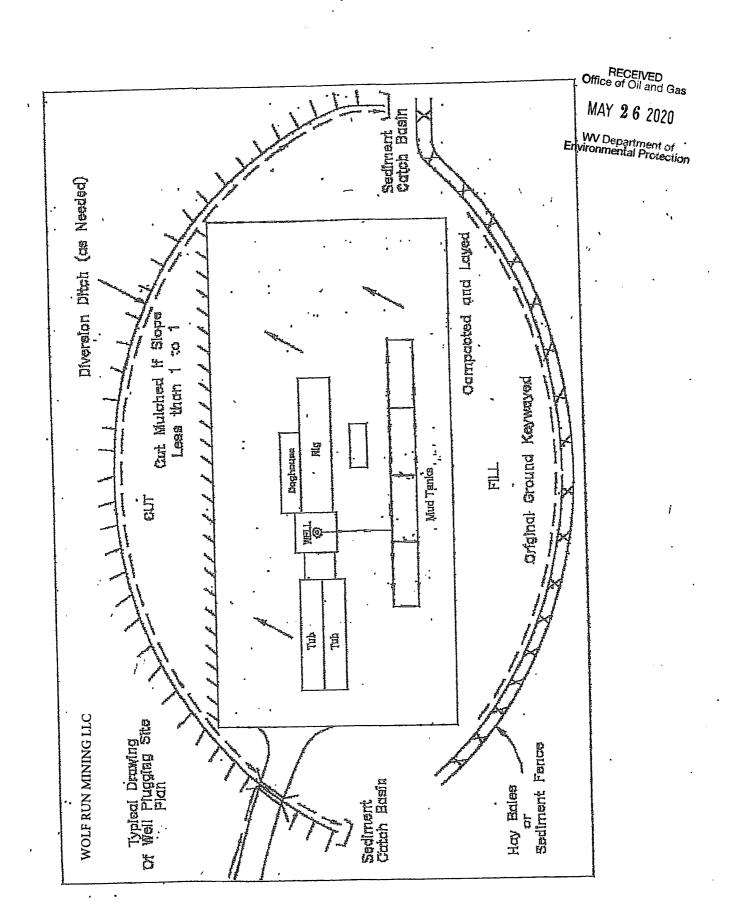
Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities O-113-83 or to an approved facility that can handle the material.

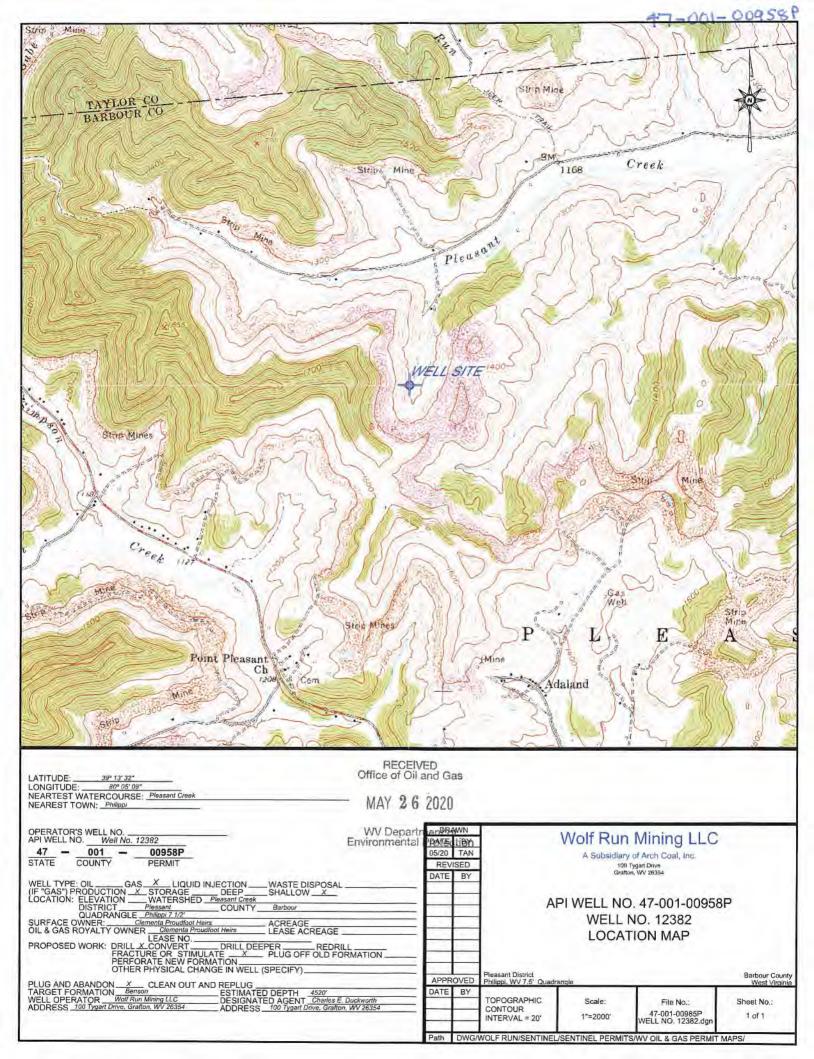
Sincerely.

Charles È. Duckworth Designated Agent

Operator's Well No.	12382
---------------------	-------

Lime 3	Tons/acre or to c	orrect to pH 6.5	
Fertilizer type 10-20			RECEIVED Office of Oil and Gas
Fertilizer amount_500		lbs/acre	MAY <b>2 6</b> 2020
Mulch Hay Bales			
Mulch		Tons/acre	WV Department of Environmental Protecti
		Seed Mixtures	
Tem	porary	F	Permanent
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	12	Orchard Grass	12
Landino Clover	3	Landino Clover	3
Timothy	10	Timothy	10
	it will be land applied ne land application ar		
Maps(s) of road, location, pit a provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	it will be land applied ne land application ar ed 7.5' topographic sl	l, provide water volume, include dimensionea. heet.	ns (L, W, D) of the pit, and dimer
Maps(s) of road, location, pit a provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve Plan Approved by:	it will be land applied at land applied at land application are land 7.5' topographic sl	l, provide water volume, include dimensionea.  heet.	
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# West Virginia Department of Environmental Protection Office of Oil and Gas

## WELL LOCATION FORM: GPS

API: 47-001-00958P	WELL NO.: 12382	
RESPONSIBLE PARTY NAME: V	Volf Run Mining LLC	
COUNTY: Barbour	Volf Run Mining LLC  DISTRICT: Pleasant	
DI 11:		
SURFACE OWNER: Clementa Prod	udfoot Hrs.	
ROYALTY OWNER: Clementa Pro	oudfoot Hrs.	
UTM GPS NORTHING: 4342225.1		
	GPS ELEVATION: 12	99.99
preparing a new well location plat for	has chosen to submit GPS coordinates in a plugging permit or assigned API num s will not accept GPS coordinates that d	iber on the
preparing a new well location plat for above well. The Office of Oil and Gas the following requirements:	a plugging permit or assigned API numbers will not accept GPS coordinates that del 17 North, Coordinate Units: meters, Alel (MSL) – meters.	o not meet titude:  Office of Oil and Gas
preparing a new well location plat for above well. The Office of Oil and Gas the following requirements:  1. Datum: NAD 1983, Zone: height above mean sea leve  2. Accuracy to Datum – 3.05: 3. Data Collection Method: Survey grade GPSX: Post Proc	a plugging permit or assigned API number will not accept GPS coordinates that described (MSL) – meters.  The properties of the coordinate	on the on the titude:  Office of Oil and Gas  MAY 2 6 2020
preparing a new well location plat for above well. The Office of Oil and Gas the following requirements:  1. Datum: NAD 1983, Zone: height above mean sea leve 2. Accuracy to Datum – 3.05: 3. Data Collection Method: Survey grade GPSx: Post Proc Real-Time	a plugging permit or assigned API number will not accept GPS coordinates that described (MSL) – meters.  meters  cessed Differential  ne Differential	o not meet titude:  Office of Oil and Gas
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MAY 26 2020

WV Department of Environmental Protection