

#### west virginia department of environmental protection

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

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

Tuesday, February 2, 2021
WELL WORK PLUGGING PERMIT
Not Available Plugging

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

Re: Permit approval for 3474 47-051-00034-00-00

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: 3474

Farm Name: WENDT, AUGUST

U.S. WELL NUMBER: 47-051-00034-00-00

Not Available Plugging Date Issued: 2/2/2021

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## **PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date	OCT	OBER	R 19	,	20	20	
2) Opera	tor	S					
Well			A	A-1610			
3) APT V	le11	No.	47-	051	-	00034	

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

		MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas _X / Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow
5)	Location: Elevation 1268.15' District LIBERTY	Watershed FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK  County MARSHALL Quadrangle CAMERON WV,PA
	District	County WARTONALL Quadrangle ONMERON WY, A
6)	Well Operator WEST VIRGINIA LAND RESOURCES INC.	7) Designated Agent DAVID RODDY
	Address 1 BRIDGE STREET	Address 1 BRIDGE STREET
	MONONGAH, WV 26554	MONONGAH, WV 26554
8)	Oil and Gas Inspector to be notified Name JAMES NICHOLSON	9)Plugging Contractor Name
	Address P.O. BOX 44	Address
	MOUNDSVILLE, WV 26041	
	MSIHA I	DRILLEN DEEPER TO 3350  LILL BE REPLOCED PER LATER.  DI C ETEMPTION  SHALL COUNTY COR COMMUNI,  No. M-2016-016 C,
		Office RSCEIVED  NOV 20 2020  Environmental Profesor  il and gas inspector 24 hours before permittedion
Noti	ification must be given to the district o can commence.	il and gas inspector 24 hours before permittedion
Work	order approved by inspector June 7	Cicloson Date 11/17/2020

Proposed Revegetation Treatment: Acres Disturb	ped 1	Preveg etation pH					
Lime 3 Tons/acre or to	correct to pH	6.0					
Fertilizer type 10-20-20 or equivalen	<u>nt</u>						
Fertilizer amount 500	lb	os/acre					
Mulch 2	Tons/a	acre					
	Seed	d Mixtures					
Temporary		Permanent					
Seed Type lbs/acre		Seed Type lbs/acre					
Seed Mix in accordance with WVDE	EP Oil	Seed Mix in accordance with WVDEP Oi					
and Gas, Erosion and Sediment Co	ontrol	and Gas, Erosion and Sediment Control					
Field Manual		Field Manual					
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#### **EXHIBIT NO.1**

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

#### SOLID PLUG METHOD

(a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.



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

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

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

DATA SUCCESTS WELL MAY HAVE BEEN PLUGGED 6/28/1934, BUT DEILLED DEEPER TO 3350' LATER PRODUCING AUGUST, 1935, IF NO PLUG IS FOUND, MUST CLEAN TO BOTTOM & SET SOLID PLUC TO 200' BELOW LOWEST MINERAGE COAL & TO A POINT 100' ABOUR SUMMONEST MINERAGE CORE, JUNE

> Office of Oil and Gas WV Department of Environmental Protection

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

MSHA (OL C. EXEMPTION)

Petition for modification

Docket No. M-2016-016-C

#### PROPOSED AMENDED DECISION AND ORDER

On May 31, 2016, a Petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to The Marshall County Coal Company's Marshall County Mine located in Marshall County, West Virginia. The Petitioner filed the Petition to permit an alternative method of compliance with the standard with respect to vertical oil and gas wells into the underground coal seams. The Petitioner requests to amend their current PDO granted on May 15, 1989, under Docket M-1988-199-C formerly known as McElroy Coal Company, McElroy Mine to the alternate method stipulated in the April 29, 2013 PDO granted to ACI Tygart Valley, Leer Mine.

The Petitioner alleges that the proposed alternative method will at all times guarantee no less than the same measure of protection afforded miners under 30 C.F.R. § 75.1700 as that provided by the standard, which states:

#### § 75.1700 Oil and gas wells.

Each operator of a coal mine shall take reasonable measures to locate oil and gas wells penetrating coalbeds or any underground area of a coal mine. When located, such operator shall establish and maintain barriers around such oil and gas wells in accordance with State laws and regulations, except that such barriers shall not be less than 300 feet in diameter, unless the Secretary or his authorized representative permits a lesser barrier consistent with the applicable State laws and regulations where such lesser barrier will be adequate to protect against hazards from such wells to the miners in such mine, or unless the Secretary or his authorized representative requires a greater barrier where the depth of the mine, other geologic conditions, or other factors warrant such a greater barrier.

The Petition addresses items for which District Manager approval is required, procedures for cleaning out and preparing oil and gas wells prior to plugging or replugging, procedures for plugging or re-plugging oil or gas wells to the surface, procedures for plugging or re-plugging oil or gas wells for use as degasification boreholes, alternative procedures for preparing and plugging or re-plugging oil or gas wells, and procedures after approval has been granted to mine through a plugged or re-plugged well.

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

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

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

#### FINDINGS OF FACT AND CONCLUSIONS OF LAW

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

Although MSHA has granted modifications of this standard at different mines over the years, changing circumstances in oil and gas drilling technology and practices compels MSHA to reconsider the safest approach to mining around or through such wells. In recent years, changes in hydraulic fracturing (fracking) technology, marketplace and resource conditions have led to an increase in the number and depth of oil and gas wells penetrating the Pittsburgh #8 and other coal seams. Since deeper wells are usually associated with higher well pressures, modifications of § 75.1700 must include appropriate measures to better protect miners. In addition to the risks associated with higher well pressures, MSHA is concerned that operators may be preparing and plugging wells to inadequate depths for convenience or to lower costs, which may result in reduced safety for miners.

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

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

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

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

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

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

#### **ORDER**

Under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at The Marshall County Coal Company's Marshall County Mine is hereby:

GRANTED, subject to the following terms and conditions:

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

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

affidavit or declaration executed by a company official, the person at the mine who is in charge of health and safety at the mine, stating that all mandatory procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order.

The affidavit or declaration must be accompanied by all logs, electronic or otherwise, described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs which the District Manager may request. The District Manager will review the affidavit or declaration, the logs and any other records that have been requested, and may inspect the well itself, and will then determine if the operator has complied with the procedures for cleaning out, preparing, and plugging each well as described by the terms and conditions of this Order. If the District Manager determines that the procedures have been complied with, he will provide his approval, and the mine operator may then mine within the safety barrier of the well, subject to the terms of this Order.

If well intersection is not planned, the mine operator may request a permit to reduce the 300 foot diameter of the safety barrier that does not include intersection of the well. The District Manager may require documents and information that help verify the accuracy of the location of the well in respect to the mine maps and mining projections. This information may include survey closure data, down-hole well deviation logs, historical well intersection location data and any additional data required by the District Manager. If the District Manager determines that the proposed barrier reduction is reasonable, he will provide his approval, and the mine operator may then mine within the safety barrier of the well.

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

## 2. MANDATORY PROCEDURES FOR CLEANING OUT, PREPARING, PLUGGING, AND RE-PLUGGING OIL OR GAS WELLS

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

The mine operator shall test for gas emissions inside the hole before cleaning out, preparing, plugging, and re-plugging oil and gas wells. The District Manager shall be contacted if the well is actively producing gas.

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

If the total depth of the well is less than 4,000 feet, the operator shall completely clean out the well from the surface to at least 200 feet below the coal seam to be mined, unless the District Manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well. The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the coal seam to be mined. Wells of this greater depth are under greater pressure, so the 400 feet requirement provides greater protection for miners. The operator shall make a diligent effort to remove all material from the entire diameter of the well, wall to wall. If the total depth of the well is unknown and there is no historical information, the mine operator must contact the District Manager before proceeding.

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

(2) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if appropriate, a deviation survey, and a gamma survey for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, potential hydrocarbon producing strata and the

location of any existing bridge plug. In addition, a journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning cleaning and sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.

(3) When cleaning out the well as provided for in subparagraph (a)(1), the operator shall make a diligent effort to remove all of the casing in the well. Thereafter, the well should be plugged to the attainable bottom, at least 200 feet below the coal seam to be mined or lowest mineable seam, whichever is lower, by pumping expanding cement slurry and pressurizing to at least 200 psi. If the casing cannot be removed, it must be cut, milled, perforated or ripped at sufficient intervals to facilitate the removal of any remaining casing in the coal seam by the mining equipment. Any casing which remains shall be perforated or ripped to permit the injection of cement into voids within and around the well. All casing remaining at the coal seam to be mined shall be perforated or ripped at least every 5 feet from 10 feet below the coal seam to 10 feet above the coal seam.

Perforations or rips are required at least every 50 feet from 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam up to 100 feet above the uppermost mineable coal seam. For perforations in the Pittsburgh Seam, see Appendix A. The mine operator must take appropriate steps to ensure that the annulus between the casing and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids.

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

If it is not possible to remove all of the casing, the operator shall notify the District Manager before any other work is performed. If the well cannot be cleaned out or the casing removed, the operator shall prepare the

well as described from the surface to at least 200 feet below the base of the lowest mineable coal seam for wells less than 4000 feet in depth and 400 feet below the lowest mineable coal seam for wells 4000 feet or greater, unless the District Manager requires cleaning out and removal of casing to a greater depth based on his judgement as to what is required due to geological strata, or due to the pressure within the well.

If the operator, using a casing bond log, can demonstrate to the satisfaction of the District Manager that all annuli in the well are already adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

(4) If the District Manager concludes that the completely cleaned-out well is emitting excessive amounts of gas, the operator must place a mechanical bridge plug in the well.

It must be placed in a competent stratum at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam, but above the top of the uppermost hydrocarbon-producing stratum, unless the District Manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well. The operator shall provide the District Manager with all information it possesses concerning the geological nature of the strata and the pressure of the well. If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used. The mine operator shall document what has been done to "kill the well" and plug the hydrocarbon producing strata.

(5) If the upper-most hydrocarbon-producing stratum is within 300 feet of the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, the operator shall properly place mechanical bridge plugs as described in subparagraph (a)(4) to isolate the hydrocarbon-producing stratum from the expanding cement plug.

Nevertheless, the operator shall place a minimum of 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater distance based on

his judgment that it is required due to the geological strata, or due to the pressure within the well.

## b. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL OR GAS WELLS TO THE SURFACE

After completely cleaning out the well as specified in paragraph 2(a) above, the following procedures shall be used to plug or re-plug wells:

- (1) The operator shall pump expanding cement slurry down the well to form a plug which runs from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, (or lower if required by the District Manager based on his judgment that a lower depth is required due to the geological strata, or due to the pressure within the well) to the surface. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. Portland cement or a lightweight cement mixture may be used to fill the area from 100 feet above the top of the uppermost mineable coal seam (or higher if required by the District Manager based on his judgment that a higher distance is required due to the geological strata, or due to the pressure within the well) to the surface.
- (2) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger diameter casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing. When the hole cannot be marked with a physical monument (e.g. prime farmland), high-resolution GPS coordinates (one-half meter resolution) are required.

## c. MANDATORY PROCEDURES FOR PLUGGING OR RE-PLUGGING OIL AND GAS WELLS FOR USE AS DEGASIFICATION WELLS

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

(1) The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater depth

based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. The top of the expanding cement shall extend at least 50 feet above the top of the coal seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well.

- (2) The operator shall securely grout into the bedrock of the upper portion of the degasification well a suitable casing in order to protect it. The remainder of this well may be cased or uncased.
- (3) The operator shall fit the top of the degasification casing with a wellhead equipped as required by the District Manager in the approved ventilation plan. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.
- (4) Operation of the degasification well shall be addressed in the approved ventilation plan. This may include periodic tests of methane levels and limits on the minimum methane concentrations that may be extracted.
- (5) After the area of the coal mine that is degassed by a well is sealed or the coal mine is abandoned, the operator must plug all degasification wells using the following procedures:
  - (i) The operator shall insert a tube to the bottom of the well or, if not possible, to within 100 feet above the coal seam being mined. Any blockage must be removed to ensure that the tube can be inserted to this depth.
  - (ii) The operator shall set a cement plug in the well by pumping Portland cement or a lightweight cement mixture down the tubing until the well is filled to the surface.
  - (iii) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.
  - (iv) This provision does not apply to traditional degasification holes

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

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

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

- (1) The operator shall drill a hole adjacent and parallel to the well, to a depth of at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.
- (2) The operator shall use a geophysical sensing device to locate any casing which may remain in the well.
- (3) If the well contains casing(s), the operator shall drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the operator shall perforate or rip all casings at least every 5 feet. Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, up to 100 feet above the seam being mined, unless the District Manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well. The diagram shown in Appendix A is representative of the locations of the perforations or ripping that must be done.

The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the District Manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal

horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

- (4) Where the operator determines, and the District Manager agrees, that there is insufficient casing in the well to allow the method outlined in subparagraph (d)(3) to be used, then the operator shall use a horizontal hydraulic fracturing technique to intercept the original well. From at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the coal seam to be mined, or lowest mineable seam, whichever is lower, to a point at least 50 feet above the seam being mined, the operator shall fracture in at least six places at intervals to be agreed upon by the operator and the District Manager after considering the geological strata and the pressure within the well. The operator shall then pump expanding cement into the fractured well in sufficient quantities and in a manner which fills all intercepted voids.
- (5) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if applicable, a deviation survey, and a gamma log for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or lowest mineable seam, whichever is lower, potential hydrocarbon producing strata and the location of any existing bridge plug. The operator may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment necessary to obtain the log.
- (6) A journal shall be maintained describing the depth of each material encountered; the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; any sections where casing was cut or milled; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
- (7) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the adjacent hole, from the bottom to the surface, with Portland cement or a lightweight cement mixture.

The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic

monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level.

A combination of the methods outlined in subparagraphs (d)(3) and (d)(4) may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The operator and the District Manager shall discuss the nature of each hole. The District Manager may require that more than one method be utilized. The mine operator may submit an alternative plan to the District Manager for approval to use different methods to address wells that cannot be completely cleaned out. The District Manager may require additional documentation and certification by a registered petroleum engineer to support the proposed alternative methods.

## 3. MANDATORY PROCEDURES WHEN MINING WITHIN A 100-FOOT DIAMETER BARRIER AROUND WELL

- a. A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA District Manager may request that a conference be conducted prior to intersecting any plugged or re-plugged well. Upon receipt of any such request, the District Manager shall schedule such a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation. The purpose of the conference shall be to review, evaluate, and accommodate any abnormal or unusual circumstance related to the condition of the well or surrounding strata when such conditions are encountered.
- b. The operator shall intersect a well on a shift approved by the District Manager. The operator shall notify the District Manager and the miners' representative in sufficient time prior to intersecting a well in order to provide an opportunity to have representatives present.
- c. When using continuous mining methods, the operator shall install drivage sights at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well. When using longwall-mining methods, distance markers shall be installed on 5-foot centers for a distance of 50 feet in advance of the well in the headgate entry and in the tailgate entry.
- d. The operator shall ensure that fire-fighting equipment including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the well intersection (when either the conventional or continuous

mining method is used) is available and operable during all well intersections. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient.

- e. The operator shall ensure that sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, emergency plugs and suitable sealing materials shall be available in the immediate area of the well intersection.
- f. On the shift prior to intersecting the well, the operator shall service all equipment and check it for permissibility. Water sprays, water pressures, and water flow rates used for dust and spark suppression shall be examined and any deficiencies corrected.
- g. The operator shall calibrate the methane monitor(s) on the longwall, continuous mining machine, or cutting machine and loading machine on the shift prior to intersecting the well.
- h. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within 30 feet of the well until the well is intersected. During the actual cutting process, no individual shall be allowed on the return side until the well intersection has been completed, and the area has been examined and declared safe. All workplace examinations on the return side of the shearer will be conducted while the shearer is idle. The operator's most current Approved Ventilation Plan will be followed at all times unless the District Manager deems a greater air velocity for the intersect is necessary.
- i. When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when intersecting the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area to be safe before permitting mining to resume.

- k. After a well has been intersected and the working place determined to be safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the well.
- If the casing is cut or milled at the coal seam level, the use of torches should not be necessary. However, in rare instances, torches may be used for inadequately or inaccurately cut or milled casings. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore and methane levels of less than 1.0% are present in all areas that will be exposed to flames and sparks from the torch. The operator shall apply a thick layer of rock dust to the roof, face, floor, ribs and any exposed coal within 20 feet of the casing prior to the use of torches.
- m. Non-sparking (brass) tools will be available and will be used exclusively to expose and examine cased wells.
- n. No person shall be permitted in the area of the well intersection except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- o. The operator shall alert all personnel in the mine to the planned intersection of the well prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well has been mined through.
- p. The well intersection shall be under the direct supervision of a certified individual. Instructions concerning the well intersection shall be issued only by the certified individual in charge.
- q. If the mine operator cannot find the well in the longwall panel or if a development section misses the anticipated intersection, the operator shall cease mining to examine for hazardous conditions at the projected location of the well, notify the District Manager, and take reasonable measures to locate the well, including visual observation/inspection or through survey data. Mining may resume if the well is located and no hazardous conditions exist. If the well cannot be located, the mine operator shall work with District Manager to resolve any issues before mining resumes.

- r. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the well intersection, and to issue a withdrawal order, when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the well intersection and/or a withdrawal of personnel by issuing either a verbal or written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.
- s. A copy of this Order shall be maintained at the mine and be available to the miners.
- t. If the well is not plugged to the total depth of all minable coal seams identified in the core hole logs, any coal seams beneath the lowest plug will remain subject to the barrier requirements of 30 C.F.R. § 75.1700, should those coal seams be developed in the future.
- u. All necessary safety precautions and safe practices according to Industry Standards, required by MSHA regulations and State regulatory agencies having jurisdiction over the plugging site will be followed to provide the upmost protection to the miners involved in the process.
- v. All miners involved in the plugging or re-plugging operations will be trained on the contents of this Petition prior to starting the process and a copy of this Petition will be posted at the well site until the plugging or replugging has been completed.
- w. Mechanical bridge plugs should incorporate the best available technologies that are either required or recognized by the State regulatory agency and/or oil and gas industry.
- x. Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the District Manager. These proposed revisions shall include initial and refresher training on compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in well intersection with training on the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.

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

SUBJECT TO THE ABOVE TERMS AND CONDITIONS, and under the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and under § 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C. § 811(c), and 30 C.F.R. Part 44, a modification of the application of 30 C.F.R. § 75.1700 at The Marshall County Coal Company's Marshall County Mine is hereby **GRANTED**.

#### **DISTRIBUTION**

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Office of the Solicitor, U.S. Dept. of Labor
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Arlington, VA 22202

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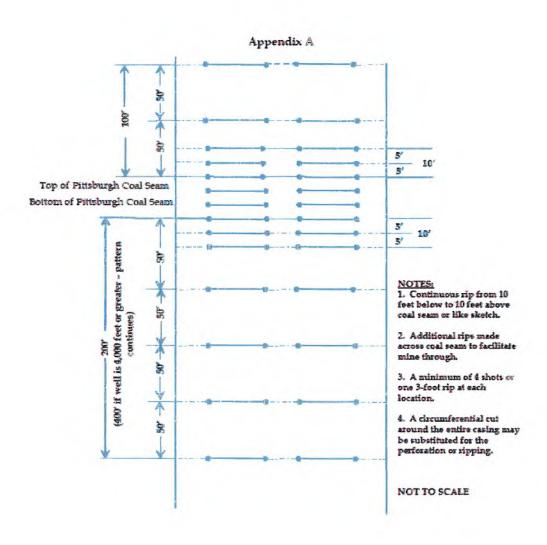
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Jerry M. Blake UMWA Representative, Marshall County Coal Mine 902 Wheeling Avenue Glen Dale, West Virginia 26038



#### Well Lifetime NGL Production

No Production Reported

The West Virginia Department of Environmental Protection (WVDEP) makes oil and gas well information and production data available to the general public through this internet service free of charge.

The oil and gas related data originate from the information reported to the Office of Oil and Gas at WVDEP by West Virginia oil and gas operators. The WVDEP does not guarantee their accuracy, precision, or completeness.

Neither the West Virginia Department of Environmental Protection nor its staff members are liable or responsible for any damage or loss resulting from the use of these data or from inaccuracies contained in the data.

We encourage you to report any problems, inconsistencies, or errors noted in using this data to the Office of Oil and Gas so that we can correct them and provide better service.

Office of Oil and Gas
Department of Environmental Protection
601 57th St
Charleston, West Virginia 25304
Phone: (304) 926-0499

Fax: (304) 926-0452

### WVDEP Office of Oil and Gas - Well Search

**Disclaimer:** Per §22-6-6. Permit required for all well work; permit fee; application; soil erosion control plan.

(a) It is unlawful for any person to commence any well work, including site preparation work, which involves any disturbance of land, without first securing a well work permit from the director of the WVDEP Office of Oil and Gas.

The appearance of an API number on the web page does not signify that a permit has been issued. The API number is used as a tracking mechanism until the permit has been issued. Under no circumstances should well work be commenced without a signed permit.

#### **Current Operator**

Well API	Operator	Surface Owner	Well Number	Well Status	Well Type	Last Permit Issue Date
4705100034	OPERATOR UNKNOWN	WENDT, AUGUST	3474	Plugged	Not Available	07/23/1934

**Note:** The operator listed above is the CURRENT operator of the well. This operator may or may not have recorded production for this well for the years listed below. The production listed below spans the years shown, regardless of the operator who originally recorded a particular year's production numbers.

#### **Production by Energy Type**

#### Well Lifetime Gas Production

No Production Reported

Well Lifetime Oil Production

No Production Reported

RECEIVED
Office of Oil and Gas

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WV Department of Environmental Protection

#### WEST VIRGINIA DEPARTMENT OF MINES

#### OIL AND GAS DIVISION

# PRELIMINARY DATA SHEET NO. 1

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Approved THE MANUFACTURERS LIGHT & HEAT COOWNER
By CITTLE Land Department.

Office of Oil and Gas

.WV Department of Environmental Protection

Gas OIL OR GAS WELL

800 Union Trust Bldg., Pittsburgh, Pa

#### COMPLETION DATA SHEET

No. 2

FORMATION RECORD

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WV Department of Environmental Protection

# WEST VIRGINIA DEPARTMENT OF MINES Oil and Gas S to the precion of the property of the precion of

10

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#### COMPLETION DATA SHEET NO. 2 FORMATION RECORD

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	11 25 20	Leave Table 1	75%	W	ALC: VACCO	1.44.52	•	
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		<b>国政治的</b> 主义。	14. 15. 15. 15. 15.	13.33	36. 56	1. 66	1.5	•
9 Mg - 3				16.50	SPACE.	1.50%		
			<b>设置企业</b>		<b>国际实现</b> 代	33.25		
" 127			<b>医主要性关键</b>	1.53.6530	148			•
	公外开发	是可以的任务。		1384 (22)				
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2.2 T []	: .j : s veic	<b>治的政治</b> 发生。		1.43.36	1.	· ; ; ;		
	2		(1. ****/2" 31 (1)	Section 18	1.1233-29(0)	ra e e e		

-1.		•
Well v	ras not abot at	·
Salt Fresh	water at	•
Well w	producing as bole.	RECEIVED Office of Oil and Gas
•	May 16th, 1931.	:NOV 2 0 2020
NOTE.	Date Owner Land Agent.  All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded undergranted.	us/ Department Of

mars 34

THE MANUFACTURERS LIGHT & HEAT Compan

BOO UNION TRUST BUILDING.

completion DATA SHEET NO. 2

PITTSBURGH, Pa

FORMATION RECORD

c eman .	Color	Characte	1.	Oil, Gas or Wate	B	Top	Bottom.	Thickness	Total Depth	Remarks
AT	Light		1 .	Kone		Q	45	\ 45	45	
. ey	de		*:   '	Water	1.3	45	90	<b>\45</b>	90	<b> </b> : •
ato .	Dark	.40	377	Hone		90	125,	35	125	•
A Rock	Bed	do		· · · ·	5.	125	154	9	154	
	Grey	Hard		<b></b>		154	150	16	. 150	
ate .	Dark	Mediu	1	<b></b>	· -:	150	160	10.	160	
<b>20</b>	Hear	Hard	420	· 40		- 140	200	40 '	200	
ato i	Dark	Seft	j. \ ,	~	.	300	240	40	.340	
k Rock	Red	do .		. <b></b>	l	<b>340</b>	255	15	255	
	Light	Bard		, · . <b></b>	70	255	7500	65	200	
rto .	Dark.	Mediu	■ : -	🚺	1	<b>300</b>	580	80	580	
<b>₽</b>	Light	Hard	46.	. to		260 .	400	* 20	400	k 1 -
to.	Derik.	Seft				400	490	90	490	I\ •
<b>10</b>	Light	Hard .				490	555	45	535	1 \ .
ıl ,	Black	Seft		-	• •	555	546	9	546	[6] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ıd	Light	Modiu		44		544	600	54	600	M
:cel	Black	Seft	''		•	800	606	6	606	\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
10	Light	Hard.		<b></b>		606	798	192	798	• •
ıl	. Black	Seft		<b></b>		796	805		:803	
<b>.</b> .	Light	Hard	4. 3	·	: ` · .\	803	904	101	904	
tts Coal	Black	Seft		. de		904	909	5	909	
<b>.</b>	light	Bard .	2 ::	. do		909	930	21	950	· ·
ito	Dark	Seft	· •	. ``, ' <b>to</b> '	3	930	960	- 50	960	
<b>.</b>	Edyll .	Hard,				960	990	50	990	1
lte .	Dark	Best			. 7	990	1010	20	1010	╽.
M.	Grey	Hard		Valor		1010	1050	20	1050	•
l Rock	Red	Seft	` ' :]	Nome .	:	1030	. 1045	15	1045	
ato .	· Derk	40				1045	1050	5	1050	1
r, Sand	Light	Har	· · ·	ą 🐪 🥌 🖰		1050	1070	20	1070	
ıte .	Dark	Soft		de .		1070.	1130	50	2170	l·
	Light	Gritty	•	. 40	1	1120	1158	1.8	1158	A A
l Rock	Rel	Seft		i le		1138	1200	- 62	1200	1 190
ı to	Derk	40	46.3			1200	1360	40 \	1240	1
l Book	Red	40.		e de		1340	1260	80	1860	· · · ·
ito .	Dark	40	3 3			1860	1270	. 10	1270	
l Rook:	Red	40				1870	1320	. 50	1320	
Sand (	Grey.	Hard	1.7			1580	1550	10	1350	1.
to animim	LIBERT D			do		1530	1570	40	1370	
<b>.</b>	Light	Bord	· : , :/	. <b></b>		1570	1580	10	1380	1
ıte ·	Dark	Soft	(6)	40		1560	1420	40	1420	
₩•	Light	Mediu	<b>.</b>			1480	1425	. 5	1425	11.
1te	Dark	Boft	<b>(3)</b>	do.		1425	1445	<b>30</b>	1445	
	Light	Hard		.40		1445	1450	5	1450	
ı to	. Dark	Soft	1:55	do .	: ·	1450	1460	10	1460	1.
Ŋ.	Grey	Hard	15	. 40		1440	1474	14,	1474	1 -
ite i	Dark	Boft	. V. 3	40	15.20	1474	1500	26	1500	1
	Light /	Hard		40	950	1500	1505	5	1506	1

Well was not shot at feet; well was shot at feet.

See Presh water at feet.

RECEIVED Office of Oil and Gas

Well was Gos hole.

See next page

Approved

Approved

Owner

Owner

Owner

NOTE: All bottom (digastions must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

OF THE PROPOSED LOCATION OF WELL NO. 3474. CANUFACTURERS LIGHT & HEAT CO. OF PITTSBURGH, PA. ON THE AUGUST F. WENDT FARM CONSISTING OF 125.8 ACRES LOCATED IN LIBERTY DISTRICT, MARSHALL COUNTY, W.YA. GEORGE WENDT ELEV. 1220' APPR. HENRY WENDT STONE AUGUST F. WENDT 125A.142P. STONE ţį ) JOHN WENDT STONE FRANK CHAMBERS NOTE: COAL OWNED BY AUGUST WENDT ENGINEERS CERTIFICATE I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS WAP IS CORRECT AND SHOWS ALL THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, REQUIRED RECEIVED
Office of Oil and Gas THE OIL AND GAS SECTION OF THE WINING LAWS OF NOV 2 0 2020 ENGINEER WV Department of Environmental Protection NOTARY PUBLIC ACKNOWLEDGED BEFORE ME A

GHENY COUNTY, STATE OF PENNSYLVANIA THIS \_ &

#### NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL WEST VIRGINIA DEPARTMENT ()R MINES

OIL ANI	GAS SECTION:
To THE DEPARTMENT OF MONES, Charleston, W. Va.	
Charteston, W. Vac,	
August Wendt	The Manufacturers Light & Heat Compa
COAL OPERATOR	NAME OF WELL OPERATOR
o/o Bank of Cameron, Cameron, W. Va.	800. Union Trust Bldg., Pittsburgh, I
ADDRESS	VCOMPLETE ADDRESS
是, 其 的是#常均等 <b>《</b> 连集法》	James 8
COAL OFERATOR / U.A. C.A.	Jamery 8, 1951
	PROPOSED LOCATION ,
The state of the s	Liberty
About of	District
	Marshall County
	Well No. 8474
ADDRESS ADDRESS	
	August Wendt Farm
GENTLEMENT:	
The undersigned well operator is entitled	to drill upon the above named farm or tract of land for
	The state of the s
oil and gas, having fee title thereto, (or as the ca	se may be) under grant or lesse dated
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
December 31st, 1804	made by Angust & Louisa Wordt
	And the state of t
South Ferm Oil Company	34th
Victorial Control of the Control of	, and recorded on the 14th day
Pobruary, 1895	
O S ) C. Sales Property Comment	in the office of the County Clerk for said County in
Book 49 page \$2	
The enclosed plot was proposed by a series	Company of the Compan
w be drifted for oil and gas by the inversioned w	etent engineer and shows the proposed location of a well rell operator on the farm and in the Magisterial District
and County above named, determined by survey	and courses and distances from two permanent points, or
INCO MATER.	
of coal hereath said form on track of land on whi	d and believes there are no coal operators operating beds ich said well is located, or within 500 feet of the bounds
. aries of the same, who have mapped their working	and filed their mane or required by lew exception the
coal operators (if any) above named as addressee	4
The above named coal operators (if any)	are notified that any objections they may desire to make
a well at said proposed location will cause a dang	quired to make by Section 3 of said Act, if the drilling of erous condition in or about their respective coal mines,
must be received by, or filed with the Henertmen	t of Nines within teny days from the receipt of a copy of
· Lus, notice and accompanying plat /by axid De	martment. Sail one properties are fresher motified that
on request and that all such objections will be	furnished to them by the Department of Mines promptly forth as definitely as is reasonably possible the ground
or arounds on Auton andu opleacious are pased, au	id indicate the direction and distance the proposed location
should be moved to overcome same.	
(The next paragraph is to be completed or	nly in Department's copy.)
Copies of this notice and the enclosed plat	were mailed by registered mail, or delivered to the above
named coal operators at their above shown respectively	scrive address day before, or on the same day
	Department of Mines at Charleston, West Virginia.
▼• V•	bry truly yours.
- N. J.	THE MANUFACTURERS LIGHT & HEAT CO.,
<b>。这种是一种的人的人们是一种的人们的人们是一种人们的人们的人们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们</b>	Harry H. Howel
	real creaton Land Agent
	800 Union Trust Bldg., Pittsburgh,
Address	atherry Bridges
Well-Operat	Ap Comment
The 100 (2017) 11 100 (2017) 11 11 11 11 11 11 11 11 11 11 11 11 11	Pittsburgh

RECEIVED
Office of Oil and Gas NOV 2 0 2020

WV Department of Environmental Protection

No. 79 O.F.-Marshall

Liberty District, Marshall County, W. Va.

Manufacturers Light & Heat Co., Cameron, W. Va.

On 500 acres, surface owned by August Wendt Estate, (Bank of Cameron,
Gameron, W. Va., and mineral rights by MLAH Co., Pitteburgh, Pa.

Drilled under permit Mars-34, issued March 9, 1931.

Elevation, 1220'.

13" conductor, 16': 10" sasing, 328': 8\frac{1}{2}, 13\hat{1}\hat{2} 7": \hat{1} \text{ tubing,}

1819' 3".

8\frac{1}{2} \text{ x 4 packer, set at 1795'.}

Cage at 1799'.

Goal was encountered at 535-5\hat{1}, 90\hat{1}-909, and 1530-153\hat{1}.

Completion reported to Dept. of Mines April 29, 1931.

Well was not shot.

Fresh water at 90': salt water at 1020'.

Gas well.

Top. Bottom, Clay, light, soft 0 -Lime, light, soft (water at 90') Slate, dark, soft 90 - 125Red rock, soft 125 - 134 Lime, gray, hard 134 - 150 Slate, dark, medium 150 - 160 Lime, gray, hard 160 -Slate, dark, soft 200 -240 Red rock, soft 240 -Sand, light, hard 255 -300 Slate, dark, medium **300 -**Line, light, hard 380 -Slate, dark, soft 400 - 490 Lime, light, hard 490 -Coal, black, soft 535 -Sand, light, medium 546 - 600 Waymesburg Coal, black, soft 600 - 606Lime, light, hard 606 -798 Coal, black, soft 798 - 803 Lime, light, hard 803 - 904 Pittsburgh Coal, black, soft 904 - 909 Lime, light, hard 909 - 930 flate, dark, soft Lime, light, hard 930 -960 960 - 990 Slate, dark, coft 990 - 1010 Sand, gray, hard (water, 1020) 1010 - 1030 Red rock, soft 1030 - 1045 Slate, dark, soft 1045 - 1050 Murphy Sand, light, hard 1050 - 1070 Slate, dark, soft 1070 - 1120 Lime, light, gritty 1120 - 1135 Red rock, soft 1138 - 1200 Slate, dark, soft 1200 - 1240 Red rock, soft 1240 - 1260 Slate, dark, soft 1260 - 1270 Red rock, soft 1270 - 1320 Little Dunkard Sand, gray, hard 1320 - 1330 Slate, light and dark, soft 1330 - 1370 Lime, light, hard 1370 - 1380 Slate, dark, soft 1380 - 1420 1420 - 1425 Lime, light, medium

(OVER)

Mars

LATITUDE 3950

~>06510

7'5 OGIS topo location

7.5'. loc 1.605 15' loc 1.605 (calc.) 1.90W

		_
Company		
Farm		
ATION NO P	WELL LOCATION MAP	
32/21 Losses Dens	File No. Marshall 34	
County		
District diberty		
0		
		1

RECEIVED Office of Oil and Gas

LONGITUDE

NOV 2 0 2020

WV Department of Environmental Protection

6-6

. (n21)

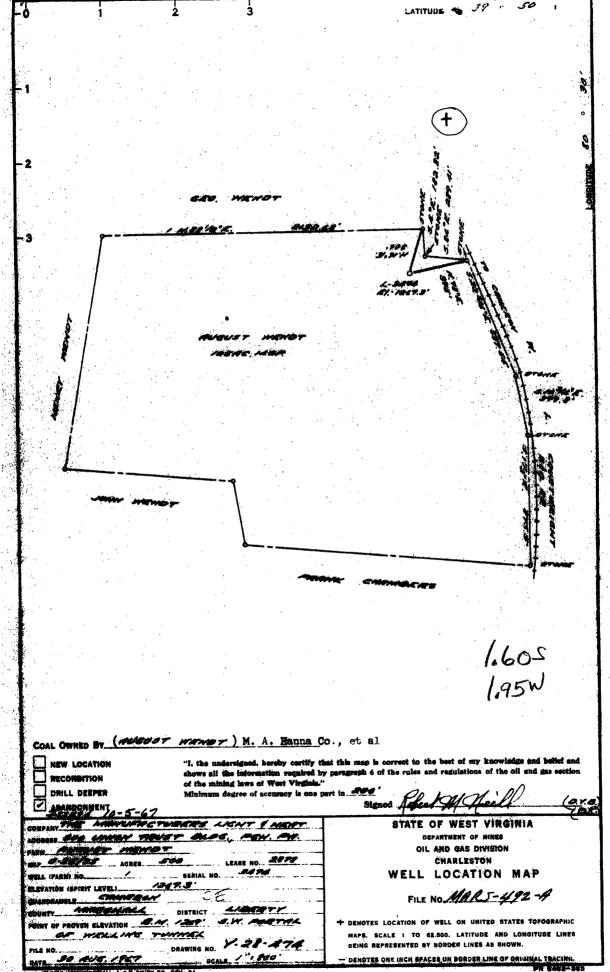
#### AUGUST WENDT ESTATE NO. 3474 WELL (Continued).

	Top. Bottom.
Slate, dark, soft	1425 - 1445
Lime, light, hard	1445 - 1450
	1450 - 1460
Send, gray, bard	1460 - 1474
Slate, dark, soft	1474 - 1500
Lime, light, hard	1900 - 1905
Slate, dark, soft	1505 - 1525
Lime, light, hard	1525 - 1530
Freeport Coal, blank, soft	1530 - 1534
Slate, dark, hard	1534 - 1550
Lime, light, hard	1550 - 1570
Vist Sait Sand, gray, hard	1570 - 1600
Slate, dark, soft	1600 - 1652
Lime shells, light, seft	1682 - 1720
· Slate, dark, soft	1720 - 1750
Lime shells, light, hard	1750 - 1794
√2nd Salt Sand, gray, hard (gas pay	:
at 1798')	1794
Total depth	1603
	1

RECEIVED Office of Oil and Gas

NOV 2 0 2020

WV Department of Environmental Protection





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

Enter Permit #: 34

Cet Data

Reset

Select datatypes: (Check All)

Location

Plugging

Stratigraphy
Stratigraphy
Pay/Show/Water

Logs

Btm Hole Loc

Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes
Contact Information
Disclaimer
WVGES Main
\*\*Pipeline-Plus\*\* New

WV Geological & Economic Survey:

Well: County = 051 Permit = 34

Report Time: Sunday, October 18, 2020 8:00:48 AM

Well Reassignment Information: Reassigned From

OLD\_COUNTY OLD\_PERMIT NEW\_COUNTY NEW\_PERMIT

Location Information: View Map

API COUNTY PERMIT TAX DISTRICT QUAD\_75 QUAD\_15 LAT\_DD LON\_DD UTME UTMN
4705100034 Marshall 34 Liberty Cameron Cameron 39,810213 -80,535521 539757.4 4406796.2

There is no Bottom Hole Location data for this well

Owner Information:

API CMP\_DT SUFFIX STATUS SURFACE\_OWNER WELL\_NUM CO\_NUM LEASE LEASE\_NUM MINERAL\_OWN OPERATOR\_AT\_COMPLETION PROP\_VD PROP\_TRGT\_FM TFM\_EST\_PR
4705100034 4/-/1931 Original Loc Completed August Wendt 1 3474 Manufacturers Light & Heat Co.

Completion Information:

API CMP\_DT SPUD\_DT ELEV DATUM FIELD DEEPEST\_FM DEEPEST\_FM DEEPEST\_FM INITIAL\_CLASS TYPE\_RIG CMP\_MTHD\_TVD\_TMD\_NEW\_FTG\_KOD\_G\_BEF\_G\_AFT\_O\_BEF\_O\_AFT\_NGL\_BEF\_NGL\_AFT\_P\_BEF\_TI\_BEF\_P\_AFT\_TI\_AFT\_BH\_4705100034 44/-1931 4/- 1267 Ground Level Cameron 2nd Salt Sand Development Well Develop

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH TOP	FM TOP	DEPTH BOT	FM BOT	G BEF	G AFT	O BEF	O AFT	WATER QNTY
4705100034	4/-/1931	Water	Fresh Water	Vertical	1200	0.50	90		- C	200	-		0
4705100034	4/-/1931	Water	Salt Water	Vertical			1020						0
4705100034	4/-/1931	Pay	Gas	Vertical			1798	2nd Salt Sand	0	0			

There is no Production Gas data for this well

There is no Production Oil data for this well \*\* some operators may have reported NGL under Oil

There is no Production NGL data for this well \*\* some operators may have reported NGL under Oil

There is no Production Water data for this well

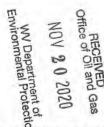
Stratigraphy Information

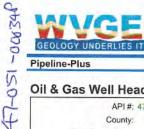
API	SUFFIX	FM	FM QUALITY	DEPTH TOP	DEPTH QUALITY	THICKNESS	THICKNESS QUALITY	ELEV	DATUM
		unidentified coal	Well Record		Reasonable		Reasonable		Ground Level
		Waynesburg coal	Well Record	600	Reasonable	6	Reasonable	1220	Ground Level
4705100034	Original Loc	Sewickley coal	Well Record	798	Reasonable	5	Reasonable	1220	Ground Level
		Pittsburgh coal	Well Record	904	Reasonable	5	Reasonable	1220	Ground Level
		Morgantown Ss/Murphy	Well Record	1050	Reasonable	20	Reasonable		Ground Level
4705100034	Original Loc	Bufflo Ss/1st Cow Rn	Well Record	1320	Reasonable	10	Reasonable		Ground Level
		Up Freeport coal	Well Record	1530	Reasonable	4	Reasonable	1220	Ground Level
4705100034	Original Loc	Homewd Ss/2n Cow Run	Past WVGES Staff Geologst	1570	Reasonable	30	Reasonable		Ground Level
4705100034	Original Loc	2nd Salt Sand	Well Record	1794	Reasonable	0	Reasonable	1220	Ground Level

There is no Wireline (E-Log) data for this well

DRILLEN DEEPER TO 3350' & PRODUCING ON 8/23/1935

There is no Sample data for this well





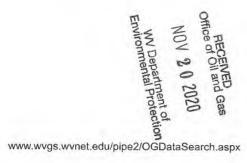
### West Virginia Geological & Economic Survey

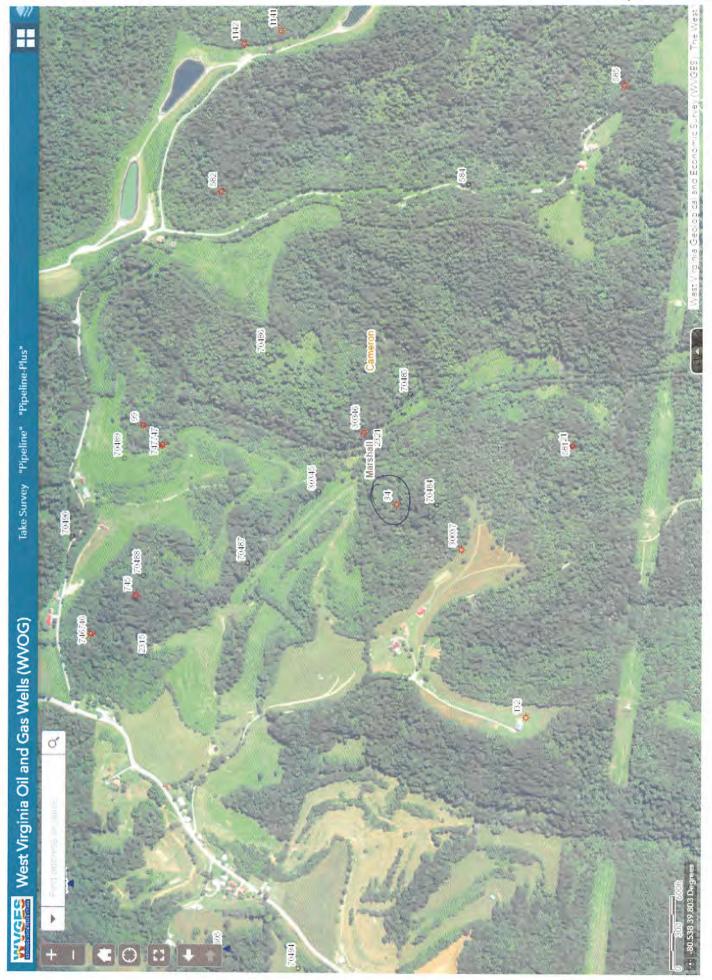
ipeline-Plus	About = Interactive Mapping	Oil&Gas Well Header Data Search	"Pipeline" = File Repositories	Scanned Records Search Slabbed Core Photos

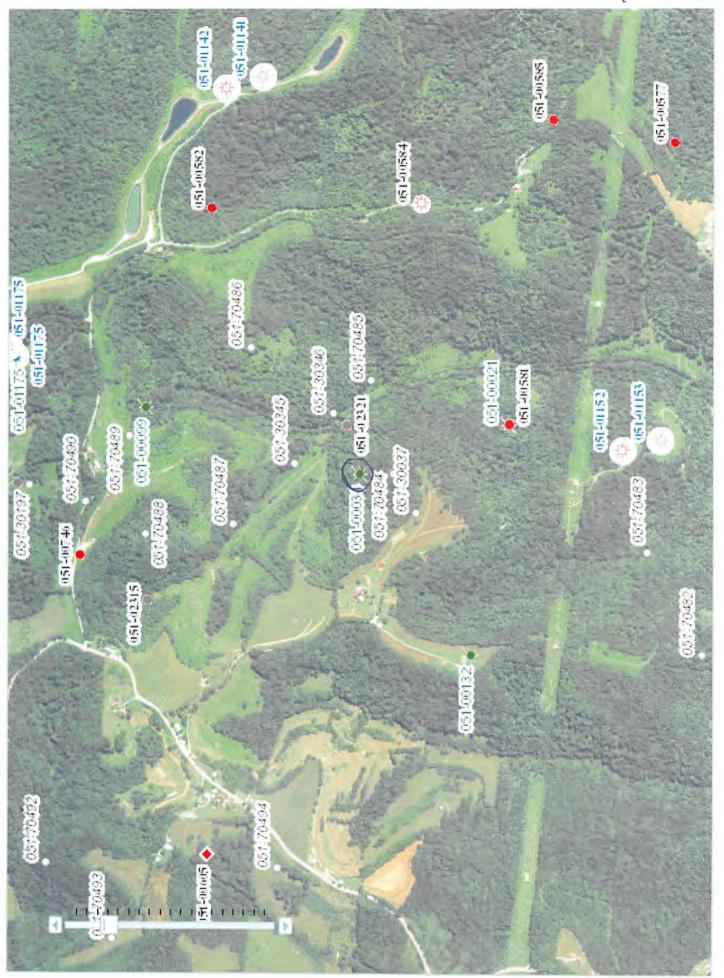
API#: 47051000	34	Well Type:	~	
County:	~	Total Vertical Depth TVD(ft) >=		
7.5 Minute Quad:	~	Completion Year =		
Type of Log:		Operator at Completion (contains):	minimum 3 characters if searching	
Log Bottom (ft) >=		Last Producing Operator (contains):	minimum 3 characters if searching	
has Scanned Log(s):		Surface Owner (contains):	minimum 3 characters if searching	
has Digitized Log(s):		Field Name (contains):	minimum 3 characters if searching	
has Sample Desc Scan:		Company Number (contains):	minimum 3 characters if search	
nas Slabbed Core Photo(s):		Mineral Owner (contains):		
Horizontal/Deviated Well:				
Results/Page: 100 ✔		Please enter or select criteria to perform database search. The application uses		
Order By: API	~	an "and" operator between search fields. Searches will not be performed if the required field criteria is not met. Error messages are indicated in RED.		
Search Reset		Tagen and the transfer of the		

1 Records Found, showing page 1 of 1 at 100 records per page

API# Pipeline Map ELog DLo	g Scans County DD Long DD Lat UTME UTMN	7.5 Tax Logs Lo Quad District Logs Bt	g Suffix Status	Comp Well Year Type Operator at Completion	Producing Owner Operator	Well Comp Mineral Owner # #
4705100034 All Data View	Scans Marshall -80.535521 39.810213 539757.4 4406796	2 Cameron Liberty		1931 Gas Manufacturers Light & Heat Co.		







WW-4A Revised 6-07

1) Date:	OCTOBER 19,	2020					
2) Operator's Well Number	Operator's Well Number						
300000000000000000000000000000000000000	M-1610						
3) API Well No.: 47 -	051	41	00034				

## STATE OF WEST VIRGINIA

(a) Name Address	ner(s) to be served: 5)	(a) Coal Operator	
Address	JOHN D. CUMPSTON ET UX		VEST VIRGINIA LAND RESOURCES INC.
	488 WENDT LN	Address 1	BRIDGE STREET
	CAMERON, WV 26033		MONONGAH, WV 26554
(b) Name		(b) Coal Owne	r(s) with Declaration
Address		Name	West to the part of the part o
		Address	
(c) Name	-	Name	
Address		Address	
Inspector	JAMES NICHOLSON	(c) Coal Lessee	e with Declaration
Address	P.O. BOX 44	Name	
	MOUNDSVILLE, WV 26041	Address	
Telephone	(304) 552-3874		
well in (2) The p	ts and the plugging work order; and olat (surveyor's map) showing the well location you received these documents is that you have rigous ou are not required to take any action at all.		s out the parties involved in the work and describes the  n which are summarized in the instructions on the reverses side.
Well in  (2) The p  The reason However, you  Take notice accompanyi  Protection, y  the Applical	plat (surveyor's map) showing the well location you received these documents is that you have rigou are not required to take any action at all.  that under Chapter 22-6 of the West Virginia Coding documents for a permit to plug and abandon a with respect to the well at the location described of	this regarding the application the undersigned well open well with the Chief of the Of the attached Application a or certified mail or deliver	
Well in  (2) The p  The reason of the reason	plat (surveyor's map) showing the well location you received these documents is that you have rigou are not required to take any action at all. It that under Chapter 22-6 of the West Virginia Cooling documents for a permit to plug and abandon a with respect to the well at the location described outloon, and the plat have been mailed by registered amstances) on or before the day of mailing or deliver	this regarding the application of the undersigned well open well with the Chief of the Offine the attached Application a or certified mail or deliver ery to the Chief.	n which are summarized in the instructions on the reverses side.  rator proposes to file or has filed this Notice and Application and ffice of Oil and Gas, West Virginia Department of Environmental and depicted on the attached Form WW-6. Copies of this Notice, ed by hand to the person(s) named above (or by publication in
well in (2) The p The reason However, you Take notice accompanyi Protection, y the Applicat certain circu	plat (surveyor's map) showing the well location you received these documents is that you have rigou are not required to take any action at all.  that under Chapter 22-6 of the West Virginia Coding documents for a permit to plug and abandon a with respect to the well at the location described oution, and the plat have been mailed by registered amstances) on or before the day of mailing or delivered to the well at the location described oution, and the plat have been mailed by registered amstances) on or before the day of mailing or delivered to the well of the well	this regarding the application of the undersigned well open well with the Chief of the Offine the attached Application a or certified mail or deliver ery to the Chief.	n which are summarized in the instructions on the reverses side.  rator proposes to file or has filed this Notice and Application and ffice of Oil and Gas, West Virginia Department of Environmental and depicted on the attached Form WW-6. Copies of this Notice, ed by hand to the person(s) named above (or by publication in
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Well in  (2) The p  The reason However, you  Take notice accompanyity Protection, you the Applicate certain circums  STATE  NO Chr Murray 61	plat (surveyor's map) showing the well location you received these documents is that you have rigou are not required to take any action at all.  I that under Chapter 22-6 of the West Virginia Coding documents for a permit to plug and abandon a with respect to the well at the location described oution, and the plat have been mailed by registered amstances) on or before the day of mailing or deliverable to the well at the location described out on an action of the plat have been mailed by registered amstances) on or before the day of mailing or deliverable to the well of the well of the plat have been mailed by registered amstances. The plat is the plat have been mailed by registered amstances on or before the day of mailing or deliverable to the well of the well of the plat have been mailed by registered amstances. Well Operator By:  Well Operator By:  Its:  Address  Address	chts regarding the application of the undersigned well open well with the Chief of the Of the Of the Application at or certified mail or deliverery to the Chief.  WEST VIRGINIA LAND R JAY HORES PROJECT ENGINEER 6126 ENERGY ROAD MOUNDSVILLE, WV 2604	n which are summarized in the instructions on the reverses side.  rator proposes to file or has filed this Notice and Application and ffice of Oil and Gas, West Virginia Department of Environmental and depicted on the attached Form WW-6. Copies of this Notice, ed by hand to the person(s) named above (or by publication in
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Oil and Gas Privacy Notice

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



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NOV 2 0 2020

WW-9 (5/16)

API Number 47	051	 00034	
Operator's Well No.			

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name_WEST VIRGINIA LAND RESOURCES INC. OP Code
Watershed (HUC 10) FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK Quadrangle CAMERON WV,PA
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)
Underground Injection (UIC Permit Number) Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain Tanks, see attached letter
Will closed loop system be used? If so, describe: Yes. Gel circulated from tank thru well bore and returned to tank
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? N/A
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title  Project Engineer  Office of Oil and Gas  NOV 2 0 2020
Subscribed and swom before me this // day of // Aven bar 20 ***  Subscribed and swom before me this // day of // Aven bar 20 ****  Subscribed and swom before me this // day of // Aven bar 20 *****  Subscribed and swom before me this // day of // Aven bar 20 ***********************************
My commission expires  OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Christian K Warfield Murray American Energy Inc 6126 Energy Road Moundsville Mu 2004
My Commission Expires June 10, 2024

# AMERICAN CONSOLIDATED NATURAL RESOURCES & WEST VIRGINIA LAND RESOURCES

AMERICAN CONSOLIDATED NATURAL RESOURCES & WEST VIRGINIA LAND RESOURCES

46226 National Road St. Clairsville, OH 43950

phone: 304.843.3565 fax: 304.843.3546

e-mail: JayHores@acnrinc.com

Jay Hores Project Engineer

November 16, 2020

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

To Whom It May Concern,

As per the Division of Environmental Protection, Office of Oil and Gas request, Consolidation Coal Company submits the following procedures utilizing pit waste.

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

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

Sincerely,

Jay Hores Project Engineer WV Department of Environmental Protection

NOV 2 0 2020

Office of Oil and Gas

Form WW-9 Operator's Well No. M-1410 Proposed Revegetation Treatment: Acres Disturbed 1 Preveg etation pH Tons/acre or to correct to pH 6.0 Fertilizer type 10-20-20 or equivalent Fertilizer amount 500 lbs acre Mulch 2 **Seed Mixtures** Temporary Permanent Seed Type lbs acre Seed Type lbs/acre Seed Mix in accordance with WVDEP Oil Seed Mix in accordance with WVDEP Oil and Gas, Erosion and Sediment Control and Gas, Erosion and Sediment Control Field Manual Field Manual 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. Comments:

Title: Oil & Gas Inspector Date: 11/17/2020 Field Reviewed? (  $\checkmark$  ) Yes ( ) No

Office of Oil and Gas

NOV 2 0 2020

WW-9- GPP Rev. 5/16

### N/A

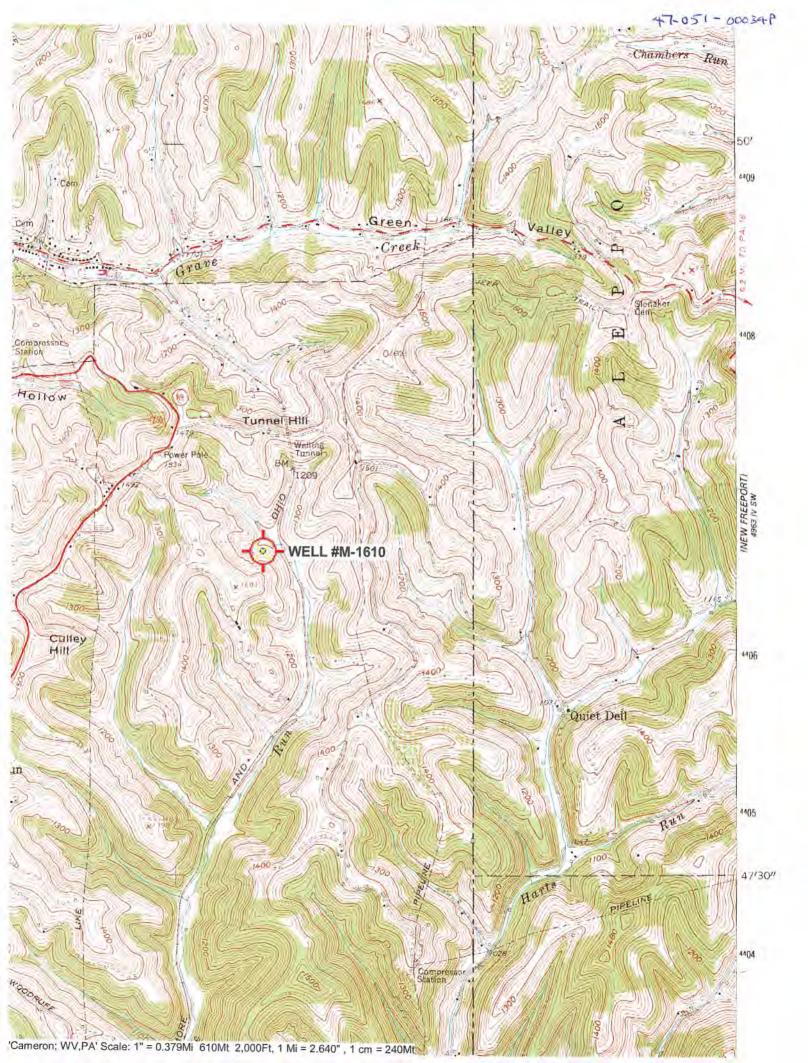
Pa	ge	(	of 2	
API Number 47 -	051	-	00034	
Operator's Well No.	M-	161	0	

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

	GROUNDWATER PROTECTION PLAN
Эр	erator Name: WEST VIRGINIA LAND RESOURCES INC.
	tershed (HUC 10): FOURMILE RUN OF HARTS RUN OF PENNSYLVANIA FORK OF FISH CREEK Quad: CAMERON WV,PA
ar	m Name:
l.	List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.
Γ	groundwater.
L	
2. 	Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.
	List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.
	Summarize all activities at your facility that are already regulated for groundwater protection.
	Office of Oil and G
	NOV <b>2 0</b> 2020
	WV Department o Environmental Protect

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

WW-9- GPP Rev. 5/16	N/A	Page 2 of 2 API Number 47 - 051 - 00034 Operator's Well No. 1410
6. Provide a statement that no	o waste material will be used for deicing	or fill material on the property.
7. Describe the groundwater provide direction on how t	r protection instruction and training to loop prevent groundwater contamination.	be provided to the employees. Job procedures shall
8. Provide provisions and fre	equency for inspections of all GPP elemen	nts and equipment.
Signature:		RECEIVED Office of Oil and Gas
Date:		NOV 2 0 2020





# West Virginia Department of Environmental Protection Office of Oil and Gas

	WELL LOCA	ΓΙΟΝ FORM: GPS		
API:	47-051-00034	WELL NO.:	M-1610	
FARM NA	AME: AUGUST WE	NDT		
RESPONS	SIBLE PARTY NAME: WES	ST VIRGINIA LAND RE	SOURCES INC	0.
	. MARSHALL			
	CAMEDON	MAY DA		_
SURFACI	E OWNER: JOHN D. C	CUMPSTON ET	UX.	_
ROVALT	V OWNER.			_
UTM GPS	S NORTHING: 4,406,7 S EASTING: 539,809	95 m	(12691)	
UTM GPS	EASTING: 539,809	m GPS ELEVAT	<sub>ION:</sub> 387 m	<u></u>
preparing a above well the following 1.  2. 3.	nsible Party named above has can new well location plat for a plant. The Office of Oil and Gas wilng requirements:  Datum: NAD 1983, Zone: 17 Market height above mean sea level (Market Accuracy to Datum – 3.05 met Data Collection Method:  grade GPS _ X : Post Processe	ugging permit or assigned All not accept GPS coordinate North, Coordinate Units: me MSL) – meters.	API number on the es that do not mee	e ot
	And the state of t	Differential X		
Mappin	ng Grade GPS: Post Proce	essed Differential		
	Real-Tim	e Differential		
belief and	Letter size copy of the topogresigned, hereby certify this data shows all the information requirements of Oil and Gas.	is correct to the best of my red by law and the regulation	knowledge and ons issued and	Office of Oil and Gas  NOV 2 0 2020  WV Department of Environmental Protection
Signature	Pro Pro	ofessional Surveyor	OCTOBER 19, 20	020
Signature	(	Title	Date	



#### 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

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

#### Tuesday, February 4, 2020 NOTICE OF FINAL ACTION TO TRANSFEREE

CONSOLIDATION COAL COMPANY 1 BRIDGE STREET

MONONGAH, WV 265540000

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

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

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

James A. Martin

Chief

Thank you in advance for your cooperation.

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NOV 2 0 2020

Transfer # Transfer Status API WellType WellStatus WellName Operator County
149289 Approved 47-051-00752 NAVL AB WENDT 2904 CONSOLIDATION COAL COMPANY Marshall

District Liberty		47-051-0	0034	
Well No M-1610		Farm name August Wendt		
Is hereby transferred		rm name	August Wendt	
The transferee	Company:Consol	lidation Co	ol Compony	
Code #307050			nongah, WV 2655	54.0000
2000 2000 2000 2000 2000				22-10-7 and 35 CSR 4 –
Designated agent (name	e) David Roddy			
Designated agent (name Address:	David Roddy  1 Bridge Street, N	lonongah,	NV 26554-0000	
Address: The transferee has bond Securities		eck one ):		or of credit
Address: The transferee has bond	1 Bridge Street, M	eck one ):		or of credit

day of January

2020

Taken, subscribed and sworn before me this 10th

My Comission Expires 6-10-2024

Notary Public

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Office of Oil and Gas

NOV 2 0 2020

Transfer #	<b>Transfer Status</b>	API	WellType	WellStatus	WellName	Operator	County
149288	3 Approved	47-051-00021	NAVL	PL	3435	CONSOLIDATION COAL COMPANY	Marshall
149288	3 Approved	47-051-00034	NAVL	PL	3474	CONSOLIDATION COAL COMPANY	Marshall
149288	3 Approved	47-051-00170	VERT	PL	1	CONSOLIDATION COAL COMPANY	Marshall

NOV 2 0 2020

W/Department of Environmental Protection