

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

Wednesday, March 5, 2025
WELL WORK PLUGGING PERMIT
Vertical Plugging

WEST VIRGINIA LAND RESOURCES, INC. 46226 NATIONAL ROAD WEST

ST. CLAIRSVILLE, OH 43950

Re: Permit approval for 3-3674 47-061-00150-00-00

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:

Farm Name: HENDERSON, NOAH

U.S. WELL NUMBER: 47-061-00150-00-00

Vertical Plugging Date Issued: 3/5/2025

PERMIT CONDITIONS

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

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.
- 4. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing.

1)Date_	JANUA	RY 7	,	20	25
2)Opera	tor's				
Well	No		814	5	
3) APT W	ell No	47-	061	_	00150

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

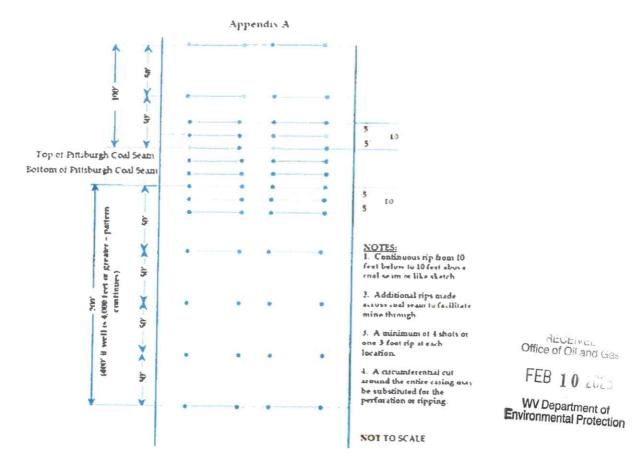
APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4) Well Type: Oil _ / Gas X / Liquid (If "Gas, Production or Und	d injection/ Waste disposal / derground storage) Deep/ Shallow_
5) Location: Elevation 1079.74' District BATTELLE	Watershed Wester Run of North Fork of West Virginia Fork of DUNKARD CREEK County MONONGALIA Quadrangle HUNDRED W.VA,PA
6) Well Operator Address Address BRIDGE STREET MONONGAH, WV 26554 8) Oil and Gas Inspector to be notified Name GAYNE KNITOWSKI Address P.O. BOX 108	7) Designated Agent DAVID RODDY Address 1 BRIDGE STREET MONONGAH, WV 26554 9) Plugging Contractor Name AddressAddress
10) Work Order: The work order for the mann See Exhibit No. 1 and MSHA 101-C Exe	
Marion County Mine (MSHA ID# 46-014) MSHA 101-C Docket No. M-2016-017-C	•
Approximate Surface Elevation Approximate Bottom of Coal Approximate Depth	Office of Oil and Gas
Notification must be given to the district of work can commence.	l and gas inspector 24 hours before permitted
Gayrie _{Gay}	gitally signed by yne Knitowski te: 2025,0204 S1:33-05'00' Date

EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal 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 set solid cement plug from TD back to minimum of 200 feet below lowest minable coal seam
- (b) If abandoned well: Entire wellbore will be loaded with Gel and will clean out to at least 200 feet below lowest minable coal seam.
- (c) A diligent attempt will be made by pulling 150% of the calculated string weight to remove casing.
- (d) If all diligent attempts fail, the casing will be cut, ripped or perforated according to Appendix A below
- (c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below lowest minable coal seam to 100' above coal seam.
- (d) Tag previous cement plug, cement from 100' above coal seam to surface.







OIL & GAS DIVISION WELL RECORD

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Gas Well
 Permit No. Mon 150
                                                                  CASING & TUBING
 Mannington N.W. Quad.
                           The Manf. Light & Heat Co.
 Company
                           800 Union Trust Bldg., Pittsburgh, Pa.
 Address
                                                                      19810
                           Noah Henderson Acres 215
                                                                 10
 Farm
                                                                     1422 * 5
                                                                 양
 Location
                                                                6 5/8 2149 3 Same
                            3- 3674 Elev. 1069
 Wall No
                            Battelle Monongalia County
 District
                           M. G. Henderson , Burton, W.Va.
The Mfrs. Light & Heat Co.
                                                                      Packor
  Surface
 Mineral
                            800 Union Trust Bldg., Pittsburgh, Pa.
                                                                 Coal at 884' 72"
                            9-26-42
 Commenced
                            11-16-42
  Completed
                            12-8-42 Depth 3088 to 3098 with gly.
  Date shot
                            16/10ths W in 2"
  Open flow
                            109,000 C.F.
  Volumo
                            600 lbs. 48 hrs.
  Rock Pressure
                                                                        2963 2093
                                    0
                                          104
                                                 Gordon Sand
  Clay, Sand, Slate
                                                                        2393 3027
                                                 Shells
                                    104
                                          140
                                                                        3027 3075
3075 3085
3085 3125
  Sand
                                    140
                                          160
                                                 Sand
  Lime
                                                 Slate & Shells
                                    160
                                          195
  Red Rock
                                                 4th Sand
                                    195
                                          510
  Slate & Lime
                                                                        3125 3144
                                                 Slate & Limo
                                    51.0
                                           525
  Nag2
                                                                        3144 3155
                                                 5th Sand
                                    525
                                           580
  Slate & Lime
                                                                        3165
                                                                              3394
                                                 Slate & Sholls
                                    580
                                           515
  Sand
                                                                              3394
                                                 TOTAL DEPTH
                                    615
                                           625
  Blato
                                          884
                                    625
  Lime
                                                 Gas At 3088-3098
                                           890
                                    884
- Pittsburgh Coal
                                    890
                                           928
  Sand
                                    928
                                           1000
  Lime
                                    1000 1035
  Sand
                                    1035 1308
  Slate, Rock, Line
  Slate & Shell
                                    1308 1333
                                    1333
                                           1393
  Lime & Slate
                                    1393 1468 Medaning + upper Free port 55
  Big Dunkard Sand
                                    1468 1470
  State
                                    1470 1489
  Sand
                                     1489 1515
  Slate & Lime
                                     1515 1535
  Sand
                                                                         Sec. 11
                                    1535 1545
  Slate
                                                                          1009
                                    1545 1640
  Sand
                                    1640 1682
  Slate & Lime
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                                     1692 1727
  Slate, Shell, Lime
  Sand
                                     1727 1740
                                    1740 1875
  Slate, Shell, Lime
                                     1875 1900
  Sand
  Slate, Shell, Rock, Lime
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  Little Lime
                                     2050 2060
                                     2060 2070
  Pencil Cave
                                     2070 2173
  Big Lime
                                                 S.L.M. 2125*
  Big Injun 27
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                                                                                   Office of Oil and Gas
  Sand
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  Lime Shells
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                                           2470
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  Gantz Sand
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  Shells
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  Sand
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                                           2695
                                                                                    WV Department of
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  Sholls
                                                                                 Environmental Protection
  501 Sand
                                     2818 2872
                                                Gas at 2523 S.L.
  Slate
                                     2872 2876
  301 Sand
                                     2876
                                           2902
  Slate
                                     2902 2918
  Gordon Stray Sand
                                     2918 2944
  Slate
                                     2944 2955
  Sand
                                     2955 2960
  Pink Rock
                                     2960 2963
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Select County:

(061) Monongalia

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Table Describors
County Code Transations
Perma-Numbering Sensa
Usaba Modes
Contact Information

RECEIVED

WV Department of

Environmental Protection

Tuesday, January 07, 2025 6:08:52 AM

FEB 10 2025

Location

Owner/Completion

Pey/Show/Water Stratigraphy Plugging
Sample

API COUNTY PER 4705100150 Monorgain 150 ocation Information: WV Geological & Economic Survey (MBD TT AX, DISTRICT QUAD_75 QUAD_15 LAY DD Hundred Mennington 39,662182

Well: County = 061 Permit = 150 Link to all digital records for well LON_DO UTME UTMN -80.378583 553304,6 4390448.3

There is no Bottom Hole Location data for this well

API CMP_DT 4706100150 11/16/1942 Owner Information

Completion information:

[API CMP_DT SPUD_DT ELEV DATUM FIELD

4706100150 11/18/1942 9/26/1942 1068 Ground Level Maple

Pay/Show/Water Information
API CMP DT ACTION

oduction Gas Information: (Volumes in Mcf PRO

Soas Transmission Coop.
Gast T CONTROL

Api 4708100150 4708100150 4708100150 4708100150 4708100150 4708100150 4708100150 4708100150

PRODUCING
Columbia Gas
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smission Corp.

"SOME Operators m
PID_YEAR AMN_OIL
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Oil Information:

OPERATOR

(Volumes in Bbl)

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OPERATOR

API CMP_DT / 4706100150 11/18/1942 | 4706100150 11/18/1942 | ACTIVITY Pay Pay PRODUCY Gas Gas

Up Devonian Up Devonian Development Well Development Well TYPE unknown

CMP_MTMD TVD Shot 3394 TWD NEW_FTG

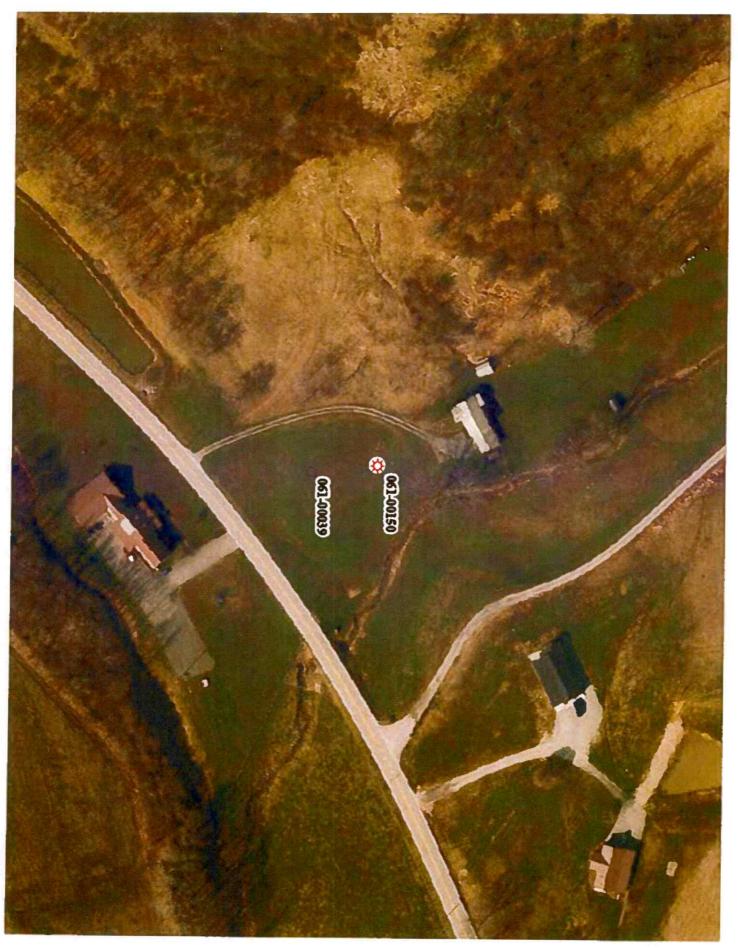
SUFFIX STATUS SURFACE_OWNER WELL_NUM
Original Loc Completed M G Henderson 3 CO_NUM_LEASE 3674 Nosh Henderson

KOD G_BEF G_AFT O_BEF O_AFT NGL_BEF NGL_AFT P_BEF T_BEF P_AFT TI_A

LÉASE_NUM MINEFAL_OWN
OPERATOR AT COMPLETION
2905 Manufacturers Light & Heat Co.
Manufacturers Light & Heat Co. PROP_VD PROP_TRGT_FM TFM_EST_PR

Office of Oil and Gas

3



03/07/2025

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DEPARTMENT OF MINES OIL AND THE DIVISION

WELL .. ECORD

Permit No. MON 150

Oil or Cas Well. Gas

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Location (waters) Well Ne. 3 - 36 District Batte The surface of tract			Acres 215		 		
Well No. 3 - 36 District Batte The surface of tract				Size	1		
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·········			enderson	10	1422'5"	•	Size of
			on, Wya.	8K		2149'3"	04
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Drilling completed				2			Perf. bottom
Date Shot 12/8/	42	3088 7	3098	Liners Used			Perf. top
With	Clycorin			**************************************			Perf. bottom
open Flow 16/1			Inch				
				Casing Cen	ENTED	.31ZE	io. Pt
oluma			LB bre		····		4-7-7-1
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Proch water				FEE			PEETINCHE
alt water			feet	PEE			PEETINCHE
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In the matter of:
The Marion County Coal Company
Marion County Mine
I.D. No. 46-01433

Petition for modification

MSHA 101 C EXEMPTION Docket No. M-2016-017-C

DECISION AND ORDER

On May 31, 2016, a petition was filed seeking a modification of the application of 30 C.F.R. § 75.1700 to The Marion County Coal Company's Marion County Mine located in Marion County, West Virginia. The Petitioner filed the petition to permit an alternative method of compliance with the standard with respect to vertical to horizontal oil and gas wells into the underground coal seams. The petitioner request to amend their current Proposed Decision Order (PDO) grant by MSHA on June 4, 1991, under Docket M-1990-156-C formerly known as Consolidation Coal Company, Loveridge No. 22 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.

Between July 20, 2016 and August 3, 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-1990-156-C will be superseded and replaced by this amended modification granted under Docket No. M-2016-017-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 Marion County Mine employs approximately 712 miners and produces approximately 50,000 tons of bituminous coal per day from the Pittsburgh #8 coal seam with an average mine height of 66 inches. At this time, there are no coal seams being mined below (i.e., stratigraphically down section from) the Pittsburgh seam. The mine is accessed through 2 slope and 12 air shafts. The mine operates 3 production shifts per day, 5 days per week, on five working sections, two longwall and three advancing gate sections utilizing continuous mining machines. The mine liberates 11,659,131 cubic feet of methane on a daily basis.

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

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

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

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

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

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

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

GRANTED, subject to the following terms and conditions:

1. DISTRICT MANAGER APPROVAL REQUIRED

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

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

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

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

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

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

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

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

(1) A diligent effort shall be made to remove all the casing in the well and clean the well to 200'below the coal seam to be mined, or the lowest

mineable coal seam, whichever is lower, or for wells 4,000' or greater, clean the well to 400'below the coal seam to be mined, or the lowest mineable coal seam, whichever is lower.

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

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

(2) The operator shall prepare down-hole logs for each well. Logs shall consist of a caliper survey, a bond log if appropriate, a deviation survey, and a gamma survey for determining the top, bottom, and thickness of all coal seams down to the coal seam to be mined, or the lowest mineable coal seam, whichever is lower, potential hydrocarbon producing strata and the location of any existing bridge plug. In addition, a journal shall be maintained describing the depth of each material encountered; the nature

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

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

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

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

If it is not possible to remove all of the casing, the operator shall notify the District Manager before any other work is performed. If the well cannot be cleaned out or the casing removed, the operator shall prepare the well as described from the surface to at least 200 feet below the base of the lowest mineable coal seam for wells less than 4000 feet in depth and

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

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

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

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

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

Nevertheless, the operator shall place a minimum of 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.

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

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

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

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

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

(1) The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the coal seam to be mined, or lowest mineable seam, whichever is lower, unless the District Manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well. The expanding cement will be placed in the well under a pressure of at least 200 pounds

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

- (2) The operator shall securely grout into the bedrock of the upper portion of the degasification well a suitable casing in order to protect it. The remainder of this well may be cased or uncased.
- (3) The operator shall fit the top of the degasification casing with a wellhead equipped as required by the District Manager in the approved ventilation plan. Such equipment may include check valves, shut-in valves, sampling ports, flame arrestor equipment, and security fencing.
- (4) Operation of the degasification well shall be addressed in the approved ventilation plan. This may include periodic tests of methane levels and limits on the minimum methane concentrations that may be extracted.
- (5) After the area of the coal mine that is degassed by a well is sealed or the coal mine is abandoned, the operator must plug all degasification wells using the following procedures:
 - (i) The operator shall insert a tube to the bottom of the well or, if not possible, to within 100 feet above the coal seam being mined. Any blockage must be removed to ensure that the tube can be inserted to this depth.
 - (ii) The operator shall set a cement plug in the well by pumping Portland cement or a lightweight cement mixture down the tubing until the well is filled to the surface.
 - (iii) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing.
 - (iv) This provision does not apply to traditional degasification holes which have not intersected the seam to be mined, have not _____ commercially produced gas and have no API number.

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

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

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

The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the District Manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of

ripping or perforating multiple strings.

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

The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 4-inch or larger casing, set in cement, shall extend at least 36 inches above the ground level.

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

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

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

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

- 1. 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 Marion County Coal Company's Marion County Mine is hereby **GRANTED**.

DISTRIBUTION:

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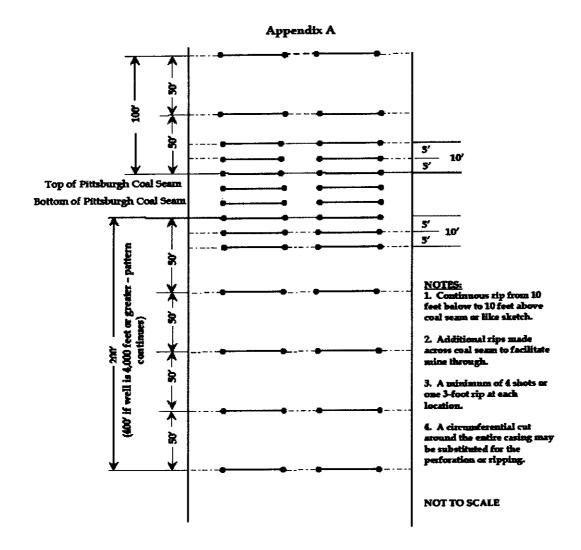
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WW-4A	
Revised	6-07

1) Date:	JANUARY 7	7, <mark>20</mark> 25	<u>i </u>	
2) Operator's Well Num	ber		-	
•	8145			
3) API Well No.: 47 -	061		00150	

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

4)		ner(s) to be served:	5) (a) Coal Operator	
	(a) Name	GEORGE D. & WANDA J. SIX	Name	WEST VIRGINIA LAND RESOURCES INC
	Address	11023 MASON DIXON HWY	Address	1 BRIDGE STREET
		BURTON, WV 26562		MONONGAH, WV 26554
	(b) Name		(b) Coal Owr	ner(s) with Declaration
	Address		Name	
			Address	
	(a) Na		N	
	(c) Name		Name	·
	Address		Address	
6) I	nspector	GAYNE KNITOWSKI	(c) Coal Less	ee with Declaration
	Address	P.O. BOX 108	Name	
		GORMANIA, WV 26720	Address	
7	Felephone	(304) 546-8171		
==				

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

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

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

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

OFFICIAL SEAL Cole Emmit James Notary Public State of West Virginia My Commission Expires June 17, 2029
3813 ELLIOT RD. WEST UNION, WY 26458

Well Operator	WEST VIRGINIA LAND RESOURCES INC.	RECEIVED
By:	DAVID RODDY	Office of Oil and Gas
Its:	PROJECT ENGINEER	
Address	1 BRIDGE STREET	FEB 1 0 2025
	MONONGAH, WV 26554	
Telephone	(304) 534-4748	WV Department of Environmental Protection
		EUALOHIUSURI PLOTECTION

Subscribed and sworn before me	this 6 _ day of _	January	,2025	
	oan co	'N	otary Public	
My Commission Expires	200	e 17, 20	20	
		,		

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.

.F3	U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only
99	For delivery information, visit our website at www.usps.com®.
-0	Certified Mail Fee \$ Extra Services & Fees (check box, add fee as appropriate) Return Receipt (hardcopy) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Required Adult Signature Restricted Delivery Postage Footoge Adult Signature Restricted Delivery Total Postage and Fees
6107	Sent To Clark Son No., of PO Box No. Sitreet and Apt. No., of PO Box No. Sity, State, ZiP+48 ZiP+4

RECEIVED
Office of Oil and Gas

FEB 10 2025

WV Department of Environmental Protection

API No.	47-061-00150		
Farm Name			
Well No.	8145		

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

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

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

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

WAIVER

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

Date: 2/3/25

RECEIVED
Office of Oil and Gas

FEB 10 2025

WV Department of Environmental Protection

API Number 47 - 061 00150
Operator's Well No. 8/4/5

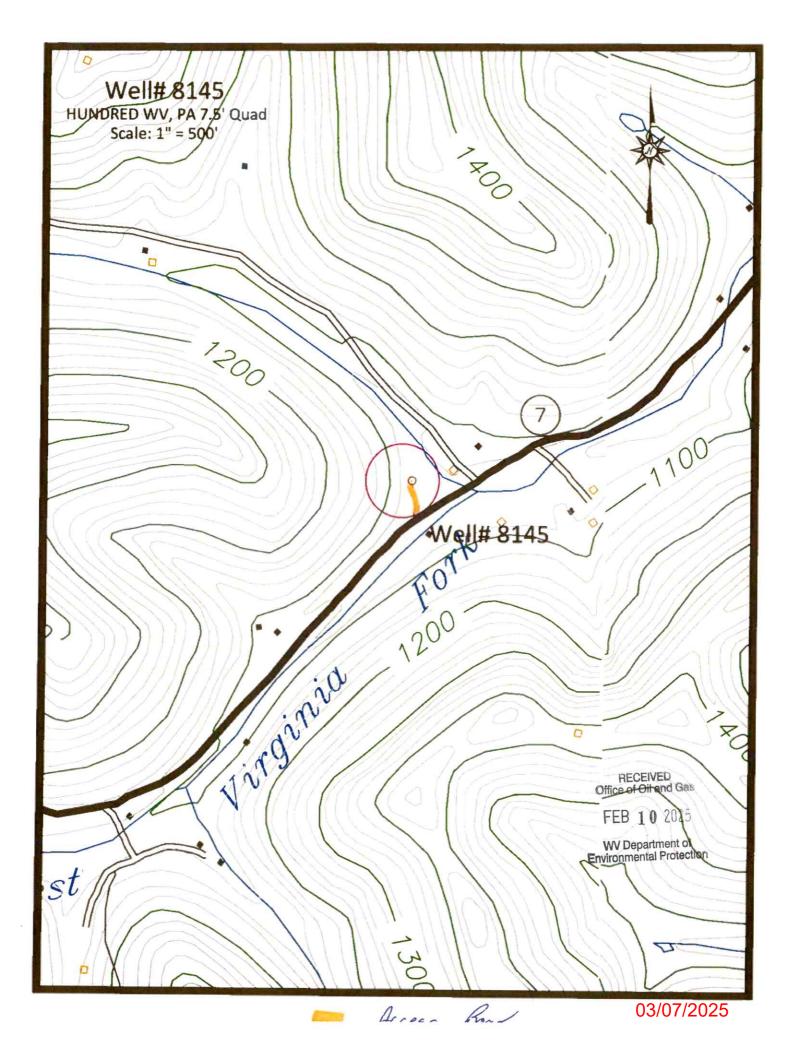
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

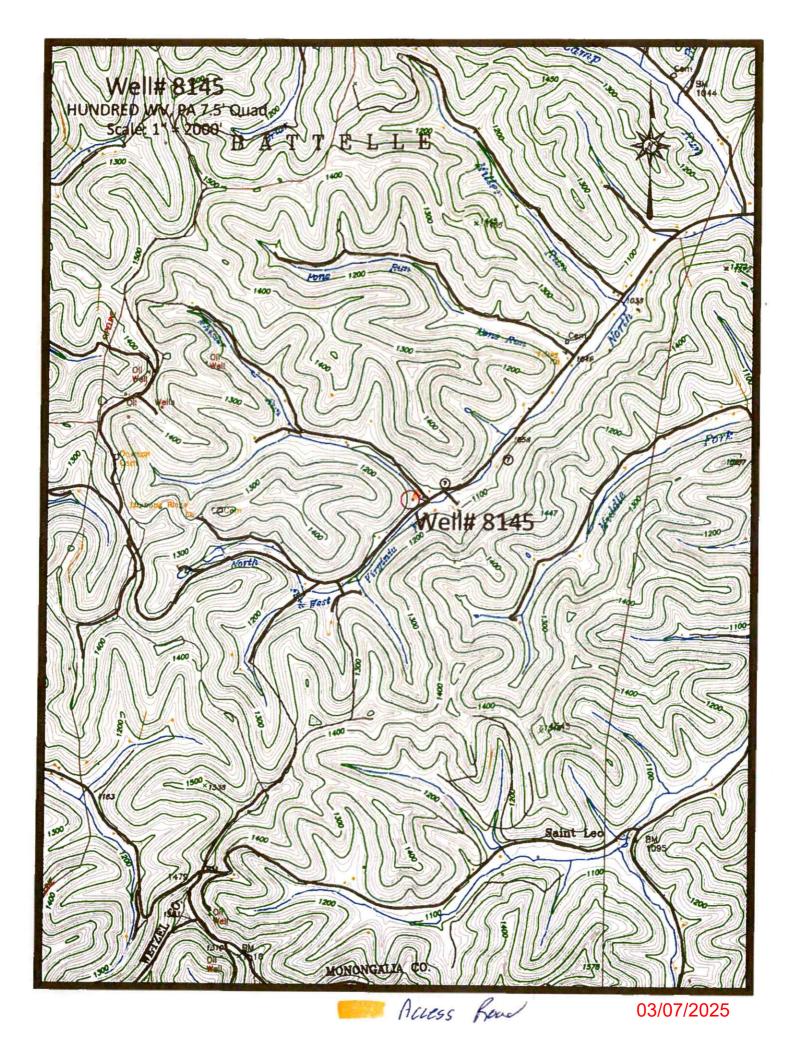
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name WEST VIRGINIA LAND RESOURCES INC. OP Code
Watershed (HUC 10) WHISLEARUN OF BORTH FORK OF WEST VIRGINIA FORK OF CUMMARD CREEK Quadrangle HUNDRED WVA,PA
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No 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 systembe 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. Get 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? NA
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April I, 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 Signature
Company Official (Typed Name) David Roddy +58 10 2025
Company Official Title Project Engineer WV Department of Environmental Protection
Subscribed and swom before me this & day of January . 20 25
My commission expires Notary Public State of West Virginia My Commission Expire

Operator's Well No. 8145

Fertilizer type	Tons/acre or	TO COMECULO PLI _	.U			
	- 10 20 20 Ar Aguival	ant				
Fertilizer amo:						
	unt_500					
Mulch_2		Tons/acm	e			
		Seed M	<u>Extures</u>			
	Temporary		Permanent			
Seed Type	lbs/acre		Seed Type	lbs/acre		
See Attachme	ent 100		See Attachment	100		
<u>.</u>				- :- m		
	Gayne Digratly signed by Knittowski Date 2015020					
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lan Approved by:	Gayne Digitally signed by Company Extremels Main 2018 2018 (Anitowski Johanna according to the Company according to the C			RECEIVED Office of Oil and Ga		









West Virginia Department of Environmental Protection Office of Oil and Gas

WELL L	OCATION FOR	M: GPS	
API: 47-061-	00150 we	LL NO.:	8145
FARM NAME: NOAH	HENDERSC	N _	
RESPONSIBLE PARTY NAMI			DURCES INC.
COUNTY: MONONG	ALIA DISTR	ICT: BAT	TELLE
QUADRANGLE: HUNDE	RED W.VA,PA		
SURFACE OWNER: GEO	RGE D. & V	VANDA	J. SIX
ROYALTY OWNER:			
UTM GPS NORTHING: 4,	390,452 m		
UTM GPS EASTING:55	3,290 m GPS	ELEVATIO	_{N:} 329 m
height above mean sea 2. Accuracy to Datum – 3 3. Data Collection Method Survey grade GPSX : Post I Real- Mapping Grade GPS: Po	for a plugging permit of Gas will not accept GPS ne: 17 North, Coordinat level (MSL) – meters05 meters d: Processed Differential Time Differential est Processed Differential	r assigned API S coordinates to the Units: meter	number on the hat do not meet s, Altitude: Office of Oil and Ga
	eal-Time Differential _		WV Department of Environmental Protection ocation.
4. Letter size copy of the the undersigned, hereby certify the belief and shows all the information prescribed by the Office of Oil and	nis data is correct to the in required by law and the	best of my kno	wledge and
£3£	P.S. 2002	J	ANUARY 7, 2025
ignature /	Title		Date

OP-77 (04/19)					Record No.				
State of West Virginia									
Department of Environmental Protection Charleston, WV 25301									
This is to acknowledge that the well: API no. 47-061-00150									
District	District Battelle								
Well No 8145 / 3-3674 Farm name Noah Henderson									
is hereby transferred from:									
The transferor		Company: Leatherwood, LLC							
Code #494523160 Address 275 Technology Drive, Suite 101, Canonsbur				nonsburg, PA	15317				
To:				777					
The transferee	100	Company: Wes	t Virginia Land	Resources, Inc.	77 270				
Code #494525	5178		The state of the s	ongah, WV 2655	4				
Pursuant to the transferee below 10.3.a.1.	Pursuant to the requirement in 35 CSR 4 – 10.3.a.2., execution of this OP-77 form by the transferor and transferee below, shall serve as certification of the assignment or the transfer identified in 35 CSR 4								
Transfer appro- or as otherwise	Transfer approval shall be subject to the provisions in W. Va. Code §§ 22-6-26, 22-10-7 and 35 CSR 4 - 10.5, or as otherwise set forth by agreement with the Chief.								
The transferee hagent is	as registered a	nd designated an	agent on form OP-	1, which is on file wi	th the Office of Orl	and Gas The			
Designated agent (name) David Roddy									
Address:		1 Bridge Street	l, Monongah, W	V 26554					
The transferee ha	s bonded the s	aid well by (check	k one)						
Secu	nlies	Cash	Surety	bond X Lette	er of credit				
Identified by:									
Amount \$50	,000			Effective date :	10/5/2020				
Issuing authority	Indemnity	National Insu	rance Company	Id No	N-6000917				
		T	ransferor Leatherwood	od, LLC					
By Sottlemmar Mi Bungan									
		Its	VICE PRE	fioer o	The state of the s				
Taken, subscribed and sworn before me this 4 day of MAY 20 24 Commenceath of Pennsy vanta - Notary Seal									
Notary Public Christopher A. Rablish Washington County									
My Commission Expires //18/2028 My commission number 1266666									
Transferee West Virginia Land Resources The Company of Management of Michigan Services									
By Coffice of Oil an									
Tabas a table		Its	2			FEB 10 2025			
Taken, subscribed	appsworn bef	ore me this	day of	2024					
Notary Public WV Department of Environmental Protection Notary Public Notary Public WV Department of Environmental Protection Notary Public No									
WAY COMMINSSION E	hus	1100			SOA:	Notary Public			

WV Department of Environmental Protection Notary Public State of Onlo My Comm. Expires October 24, 2027



Kennedy, James P < james.p.kennedy@wv.gov>

Plugging permits issued 4706100150 06101980

1 message

Kennedy, James P < james.p.kennedy@wv.gov>

Wed, Mar 5, 2025 at 3:03 PM

To: Gayne J Knitowski <gayne.j.knitowski@wv.gov>, mmusick@assessor.org, "Roddy, David" <DavidRoddy@acnrinc.com>

To whom it may concern, plugging permits have been issued for 4706100150 06101980.

James Kennedy

WVDEP OOG

2 attachments



4706101980.pdf 3667K



4706100150.pdf 3967K