

## 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, June 13, 2023
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re:

Permit approval for 1 47-001-00696-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: 1

Farm Name: McCAULEY, JACOB

U.S. WELL NUMBER: 47-001-00696-00-00

Vertical Plugging
Date Issued: 6/13/2023



## 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.



WW-4B Rev. 2/01

1) Date May 1	,	20 23		
2) Operator's	Supple V			
Well No. 3340				
3) API Well No.	47-001	- 00695		

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

	OFFICE OF	OIL AND GAS	
	APPLICATION FOR A PERM	AIT TO PLUG AND AB	ANDON
4)	Well Type: Oil/ Gas/ Liquid		
	(If "Gas, Production or Und	derground storage	
5)	Location: Elevation 1310'	Watershed Camp R	un
-,	District Pleasant	County Barbour	Quadrangle Philippi (545)
2.	Diversified Production LLC		Austin Sutlar
6)	Well Operator Diversified Production LLC	7) Designated Age	
	Address 414 Summers Street	Addre	414 Summers Street
	Charleston, WV 25301		Charleston, WV 25301
8)	Oil and Gas Inspector to be notified	9)Plugging Contra	actor
	Name Randall M. Kirchberg	Name Coasta	al Drilling East, LLC
	Address P.O. Box 1052	Address 13	0 Meadows Ridge Road
	Buckhannon, WV 26201	Mt	Morris, PA 15349
ĵ.	See Exhibit Nos. 1 and 2 and MSHA 101-C EMSHA 101-C Docket No. M-2012-002-C Appropriate Lower Kittanning coal seam to Approximate Lower Kittanning coal seam botto	p = 813.89'	RECEIVED Office of Oil and Gas MAY 1 8 2023  WV Department of Environmental Protection
	fication must be given to the district of can commence.	l and gas inspecto	or 24 hours before permitted
Work	order approved by inspector Randall M. Kirch	Digitally signed by Randall M. Kirchberg Date: 2023.05.17.08.51.01-04/00'	Date

#### EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Berry Energy, Inc. will utilize the following method to plug all future wells.

#### SOLID PLUG METHOD



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

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

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

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Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349 Phone 304-296-1120 F a x 304-413-0061

"A Shaft Drillers International Company"

05/05/2023

## EXHIBIT B No. 2

Mr. Chuck Duckworth, on behalf of Diversified Gas & Oil Corporation Gas Well & Property Manager
Arch Coal, Inc. – Leer South Mine
100 Tygart Drive
Grafton, WV 26354

Mr. Duckworth,

Below is the proposed plugging plan we discussed that can be used on wells similar to the wells we have been plugging for the last few years. This is the procedure we will generally utilize to plug 47-001-02026, 574, 429, 609, 343, 1045, and 696 wells

#### Plugging Plan

THIS WELL HAS: 41/2" TO 45/4"

G5/8" TO 1169"

- Move to site, rig up, mix mud, drill rathole
- · Bullhead well and maintain static well head pressures
- Clean out well to original total depth (5,717). 4578 / 9 mm
- Run cement bond bg on 4 1/2' casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond bg.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 ½" casing from the free point determined by the bond log.
- Clean out wellbore to top of remaining 4 ½"casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 50' of the bottom of the-7" casing. 87/4" satisfies

If necessary cut and pull any free casing.

Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition for the Leer Mine

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- Multiple cuts may be required to be placed with both the bonded 7" and 9 5/8"

  WV Department of casing strings. The cuts will be placed in 18" increments through the mining area Environmental Protection the Lower Kittanning Coal Seam.
- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition for the Leer Mine.
- Rig down and set monument as required by WV DEP.
- Contractor will utilize Class A cement, unless Class B becomes state approved

Randall M. Kirchberg Digitally signed by Randall M. Kirchberg Date: 2023.05.17 08:51:22 -04'00'

00.10 Rev. - 9-71

Quadrangle Philippi



STATE OF WEST VIRGILIA DEPARTMENT OF MINES

## APR 2 1 1975

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## Oil and Gas Division

#### WELL RECORD /

Rotary\_X Gas\_X Cable\_ Recycling Comb. Water Flood\_\_ Storage. Disposal

Permit No. BAR-696 (Kind) Company Union Drilling, Inc. Casing and Used in Left Coment fill up Address P. O. Dr. 40, Buckhannon, WV 26201 Tubing Dulling in Well Farm Jacobs & McCauley Cu ft. (Sks.) - Acres 55 Location (waters) Camp Run Well No. 334U \_ Elev.\_\_1310' 20-16 District Pleasant County Barbour Cond. The surface of tract is owned in fee by William 13-10" 13" 0 lacobs & Arbutus McCauley 9 5/8 Address Route 2, Flemington, WV 26347 8 5/8 1168.70 1168.70 Mineral rights are owned by same 5 1/2 \_\_ Address\_ 4 1/2 Drilling Commenced January 30, 1975 4514.351 4514.35 Drilling Completed February 5, 1975 Initial open flow 133,000 cu. ft. bbls.

Final production 400,000 cu. ft. per day bbls. Liners Used Well open \_\_\_\_\_4 hrs. before test LLOG# . RP. Well treatment details:

Attach copy of cementing record.

2/14/75 - Dowell - 1 Stage Job - Benson - 645 BBL. Waterfrac - 23,000 lbs. sand

Coal was encountered at .. licet. Fresh water\_\_\_\_15" Producing Sand Benson Depth .

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Re	marks
Fill Dirt	0	30		
Shale	30	125		
Sand	125	230		
Red Rock, Shale & Sand	230	215		
Sand & Shale Streaks	315	425		
Sand	425	456		
Sand & Shale	456	493		
Sand	493	573		•
Sand & Shale	573	618		
Sand	618	690		
Shale	690	755		
Sand & Shale	755	915		
Sand	915	1026		
Sand & Shale Streaks	1026	1040		
Sand & Shale	1040	1174		
Sand & Shale Streaks	1174	1350		
Red Rock, Shale & Sand	1350	1520		
Sand & Shale Streaks	1520	1595		
Big Lime	1595	1695		
Lime	1695	1715		
Red Rock	1715	1726		
Sand	1726	1785		
Sand & Shale	1785	2115		

(over)

\* Indicates Electric Log tops in the remarks section.

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Formation Color Hard or Soft	Top Feet !	Battom Fæt	Oil, Gas or Water	• Remarks .
Shale Sand & Shale Sand & Shale Streaks Sand & Shale Benson Sand Sand & Shale	2115 2170 2230 3848 4250 4432 4442	2170 2230 3848 4250 -2 4-42 4578	TOTAL DEPTH	
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WV Department of Environmental Protection

APPROVED Union Drilling, Inc., Owner

By St. Saille.

John M. Williams, (Title) Vice President St. W.

#### STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

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INSPECTOR'S WELL REPORT OIL & GAS DIVISION

Permit No DAR-696			ter is	Gas Well
Company Anignin Willy Co.	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
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Farm JACO 19-M-CAUley	16	32(	Pulled	Kind of Packer
Well No	10	1121	·	Size of
Drilling commenced 1 - 30 - 75	811/8	2161		Depth set
Drilling commenced / JO-10	.53/16			
Drilling completedTotal depth	3		· · · · ·	Perf. top
Date shot Depth of shot	2		*	Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths liere inInch				Perf. bottom
VolumeCu. Ft.	CASUIG CEME		stre 116	No. FT Date
Rock pressurelbshrs.	WALLE OF SEA	. COMPT		OCH Justin
Oilbbls., 1st 24 hrs.	COAL WAS E	NCOUNTERED	AT	FEETINCIES
Fresh water 30 feet feet	FEET	Linci	128	FEETINCHES
Salt waterfeetfeet	FEET	INCI	IES	FEETINCLIES
Drillers' Names Aggnette	lingh	Curren	5 190	el.
Remarks:	i dely	0- T	Luy	
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## STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

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INSPECTOR'S WELL REPORT DELTICS WINE

	INSPECTOR	'S WELL	REPOR	T LL.	. Car Will	7.5
Permit No. 696		desire.	٠.	Oil or (	Gas Well	
Company African A	Dely G.	CASING AND	DUILTING DEED IN	LEFT IN	JACKE	ns .
Address Deer spa	(الله مسينة	Size		• 1 2 2 2 2		
Farm Macho-M	Cauley	16	32	Pulled	Kind of Packe	r
WHY NO	18-11	10	,		Size of	
District Co	ounty 10 Millioner	638	1161		Depth set	
Drilling commenced Drilling complete D-75 T	otal depth 4.576	4/1/2"	4509	1701	31.600	٠
	of shot	2 /	2		Perf. bottom_	·
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Open flow after tubing /10			<u> </u>	1	Perf. bottom_	
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Salt waterfeet	feet	FEET	,,-,		FEET	
Drillers' Names	Sharely	-1	· Maria	* Shed	2.1	٠١٥,
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## **U.S.** Department of Labor

SEP 3 0 2013

In the matter of: Wolf Run Mining Company Sentinel Mine I. D. No. 46-04168 Mine Safety and Health Administration 1100 Wilson Boulevard : Arlington, Virginia 22209-3939

Petition for Modification

Docket No. M-2012-002-C

## PROPOSED DECISION AND ORDER

On January 1, 2012, a petition was filed seeking a modification of the application of 30 CFR 75.1700 to Petitioner's Sentinel Mine located near Buckhannon in Upshur County, West Virginia. The petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

On July 3, 2012, MSHA conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative reports and recommendations, this Proposed Decision and Order (PDO) is issued.

## Finding of Fact and Conclusion of Law

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

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

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

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#### ORDER

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

GRANTED, subject to the following terms and conditions:

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

- a. A safety barrier of 300 feet in diameter (150 feet between any mined area and a well) shall be maintained around all oil and gas wells (defined herein to include all active, inactive, abandoned, shut-in, and previously plugged wells, and including water injection wells) until approval to proceed with mining has been obtained from the district manager.
- Prior to mining within the safety barrier around any well, the mine operator shall provide to the district manager a sworn affidavit or . declaration executed by a company official stating that all mandatory procedures for cleaning out, preparing, and plugging each gas or oil well have been completed as described by the terms and conditions of this order. The affidavit or declaration must be accompanied by all logs described in subparagraphs 2(a)(2) and 2(a)(3) below and any other records described in those subparagraphs which the district manager may request. The district manager will review the affidavit or declaration, the logs and any other records that have been requested, and may inspect the well itself, and will then determine if the operator has complied with the procedures for cleaning out, preparing and plugging each well as described by the terms and conditions of this Order. If the district manager determines that the procedures have been complied with, he will provide his approval, and the mine operator may then mine within the safety barrier of the well, subject to the terms of this Order.

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

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

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

- If the total depth of the well is less than 4,000 feet, the operator shall completely clean out the well from the surface to at least 200 ft. below the base of the lowest mineable coal seam, unless the district manager requires cleaning to a greater depth based on his judgment as to what is required due to the geological strata, or due to the pressure within the well (the operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well). If the total depth of the well is 4,000 feet, or greater, the operator shall completely clean out the well from the surface to at least 400 feet below the base of the lowest mineable coal seam. The operator shall remove all material from the entire diameter of the well, wall to wall.
- The operator shall prepare down-hole logs for each well. They shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon producing strata and the location for a bridge plug. The district mariager may approve the use of a down-hole camera survey in lieu of down-hole logs. In addition, a journal shall be maintained describing the depth of each material encountered, the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place, any sections where casing was cut or milled; and other pertinent information concerning cleaning and sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
- When cleaning out the well as provided for in subparagraph (a)(1), the operator shall make a diligent effort to remove all of the casing in the well. If it is not possible to remove all of the casing, then the operator must take appropriate steps to ensure that the annulus between the casing and between the casings and the well walls are filled with expanding (minimum 0.5% expansion upon setting) cement and contain no voids. If the casing cannot be removed, it must be cut or milled at all mineable coal seam levels. Any casing which remains shall be perforated or ripped. Perforations or rips are required at least every 50 feet from 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable nvironmental Protection

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coal seam up to 100 feet above the uppermost mineable coal seam. If the operator, using a casing bond log, can demonstrate to the satisfaction of the district manager that all annuli in the well are already adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.

- (4) If the district manager concludes that the completely cleaned-out well is emitting excessive amounts of gas (potential to cut uncured cement), the operator must place a mechanical bridge plug in the well. It must be placed in a competent stratum at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam, but above the top of the uppermost hydrocarbon-producing stratum, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well (the operator shall provide the district manager with all information it possesses concerning the geological nature of the strata and the pressure of the well). If it is not possible to set a mechanical bridge plug, an appropriately sized packer may be used.
- (5) If the upper-most hydrocarbon-producing stratum is within 300 feet of the base of the lowest minable coal seam, the operator shall properly place mechanical bridge plugs as described in subparagraph (a)(4) to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, the operator shall place a minimum of 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater distance based on his judgment that it is required due to the geological strata, or due to the pressure within the well.

## MANDATORY PROCEDURES FOR PLUGGING OR REPLUGGING OIL OR GAS WELLS TO THE SURFACE.

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

- (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 lowest mineable coal seam (or lower if required by the district manager based on his judgment that a lower depth is required due to the geological strata, or due to the pressure within the well) to the surface. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. Portland cement or a lightweight cement mixture may be used to fill the area from 100 feet above the top of the uppermost mineable coal seam (or higher if required by the district manager based on his judgment that a higher distance is required due to the geological strata, or due to the pressure within the well) to the surface.
- (2) The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 41/2 inch or larger casing, set in cement, shall extend at least 36 inches above the ground level with the API well number engraved or welded on the casing. When the hole cannot not be marked with a physical monument (i.e. prime farmland), high-resolution GPS coordinates (one-half meter resolution) are required.

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

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

The operator shall set a cement plug in the well by pumping an expanding cement slurry down the tubing to provide at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) of expanding cement below the lowest mineable coal seam, unless the district manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well. The expanding cement will be placed in the well under a pressure of at least 200 pounds per square inch. The top Office of Oil and Gas 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 Environmental Protection the well.

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

  Office of Oil and Gas

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

- (1) The operator shall drill a hole adjacent and parallel to the well, to a depth of at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the lowest mineable coal seam, unless the district manager requires a greater depth based on his judgment that a greater depth is required due to the geological strata, or due to the pressure within the well.
- (2) The operator shall use a geophysical sensing device to locate any casing which may remain in the well.
- If the well contains casing(s), the operator shall drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the operator shall perforate or rip all casings at intervals of at least 5feet. Beyond this distance, the operator shall perforate or rip at least every 50 feet from at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam up to 100 feet above the seam being mined, unless the district manager requires a greater distance based on his judgment that a greater distance is required due to the geological strata, or due to the pressure within the well. The operator shall fill the annulus between the casings and between the casings and the well wall with expanding (minimum 0.5% expansion upon setting) cement, and shall ensure that these areas contain no voids. If the operator, using a casing bond log, can demonstrate to the satisfaction of the district manager that the annulus of the well is adequately sealed with cement, then the operator will not be required to perforate or rip the casing for that particular well, or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing which remains shall be ripped or perforated and filled with expanding cement as indicated above. An acceptable casing bond log for each casing and tubing string is needed if used in lieu of ripping or perforating multiple strings.
- (4): Where the operator determines, and the district manager agrees, that there is insufficient casing in the well to allow the method outlined in subparagraph (d)(3) to be used, then the operator shall use a horizontal hydraulic fracturing technique to intercept the original well. From at least 200 feet (400 feet if the total well depth is 4,000 feet or greater) below the base of the lowest mineable coal seam to a point at least 50 feet above the seam being mined, the operator shall fracture in at least six places (12 places if the total well depth is 4,000 feet or greater) at intervals to be agreed upon by the operator and the district manager after considering the nyironmental Protection

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Wv.Department or

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. They shall consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon producing strata and the location for the bridge plug. The operator may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment necessary to obtain the log. The district manager may approve the use of a down-hole camera survey in lieu of down-hole logs if in his judgment such logs would not be suitable for obtaining the above-listed data or are impractical to obtain due to the condition of the drill hole. A journal shall be maintained describing the depth of each material encountered, the nature of each material encountered; bit size and type used to drill each portion of the hole; length and type of each material used to plug the well; length of casing(s) removed, perforated or ripped or left in place; and other pertinent information concerning sealing the well. Invoices, work-orders, and other records relating to all work on the well shall be maintained as part of this journal and provided to MSHA upon request.
  - (6) After the operator has plugged the well as described in subparagraphs (d)(3) and/or (d)(4), the operator shall plug the adjacent hole, from the bottom to the surface, with Portland cement or a lightweight cement mixture. The operator shall embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 41/2 inch or larger casing, set in cement, shall extend at least 36 inches above the ground level

A combination of the methods outlined in subparagraphs (d)(3) and (d)(4) may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The operator and the district manager should discuss the nature of each hole. The district manager may require that more than one method be utilized.

MANDATORY PROCEDURES AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT MANAGER TO MINE WITHIN THE SAPETY BARRIER, OR TO MINE THROUGH A PLUGGED OR REPLUGGED WELL

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- A representative of the operator, a representative of the miners, the appropriate State agency, or the MSHA district manager may request that a conference be conducted prior to mining through any plugged or replugged well. Upon receipt of any such request, the district manager shall schedule such a conference. The party requesting the conference shall notify all other parties listed above within a reasonable time prior to the conference to provide opportunity for participation. The purpose of the conference shall be to review, evaluate, and accommodate any abnormal or unusual circumstance(s) related to the condition of the well or surrounding strata when such conditions are encountered.
- b. The operator shall mine through a well on a shift approved by the district manager. The operator shall notify the district manager and the miners' representative in sufficient time prior to mining-through a well in order to provide an opportunity to have representatives present.
- c. When using continuous mining methods, the operator shall install drivage sights at the last open crosscut near the place to be mined to ensure intersection of the well. The drivage sites shall not be more than 50 feet from the well. When using longwall-mining methods, drivage sights shall be installed on 10-foot centers for a distance of 50 feet in advance of the well. The drivage sights shall be installed in the headgate.
- d. The operator shall ensure that fire-fighting equipment including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mine through (when either the conventional or continuous inining method is used) is available and operable during all well mine throughs. The fire hose shall be located in the last open crosscut of the entry or room. The operator shall maintain the water line to the belt conveyor tailpiece along with a sufficient amount of fire hose to reach the farthest point of penetration on the section. When the longwall mining method is used, a hose to the longwall water supply is sufficient.
  - The operator shall ensure that sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, emergency plugs and suitable sealing materials shall be available in the immediate area of the well intersection.
  - On the shift prior to mining through the well, the operator shall service all equipment and check it for permissibility. Water sprays, water pressures and water flow rates used for dust and spark suppression shall be examined and any deficiencies corrected.

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- 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 mining through the well.
- h. When mining is in progress, the operator shall perform tests for methane with a handheld methane detector at least every 10 minutes from the time that mining with the continuous mining machine or longwall face is within 30 feet of the well until the well is intersected and immediately prior to mining through it. During the actual cutting process, no individual shall be allowed on the return side until the mine through has been completed and the area has been examined and declared safe. All workplace examinations will be conducted on the return side of the shearer while the shearer is idle.
  - i. When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
  - j. When the well is intersected, the operator shall de-energize all equipment, and thoroughly examine and determine the area is safe before mining is resumed.
  - k. After a well has been intersected and the working place determined safe, mining shall continue inby the well a sufficient distance to permit adequate ventilation around the area of the well.
    - If the casing is cut or milled at the coal seam level, the use of torches should not be necessary. However, in rare instances, torches may be used for inadequately or inaccurately cut or milled casings. No open flame shall be permitted in the area until adequate ventilation has been established around the well bore and methane levels of less 1.0% are present in all areas that will be exposed to flames and sparks from the torch. The operator shall apply a thick layer of rock dust to the roof, face, floor, tibs and any exposed coal within 20 feet of the casing prior to any use of torches.

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m. Non-sparking (bress) tools will be located on the working section and will be used to expose and examine cased wells.

- n. No person shall be permitted in the area of the mine through operation except those actually engaged in the operation, including company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- o. The operator shall alert all personnel in the mine to the planned intersection of the well prior to their going underground if the planned intersection is to occur during their shift. This warning shall be repeated for all shifts until the well has been mined through.
- p. The mine through operation shall be under the direct supervision of a certified individual. Instructions concerning the mine through operation shall be issued only by the certified individual in charge.
- q. The provisions of this Order do not impair the authority of representatives of MSHA to interrupt or halt the mine through operation, and to issue a withdrawal order, when they deem it necessary for the safety of the miners. MSHA may order an interruption or cessation of the mine through operation and/or a withdrawal of personnel by issuing either a verbal or written order to that effect to a representative of the operator, which order shall include the basis for the order. Operations in the affected area of the mine may not resume until a representative of MSHA permits resumption of mine through operations. The mine operator and miners shall comply with verbal or written MSHA orders immediately. All verbal orders shall be committed to writing within a reasonable time as conditions permit.
- r. A copy of this Order shall be maintained at the mine and be available to the miners.
- Within 30 days after this Order becomes final, the operator shall submit proposed revisions for its approved 30 C.F.R. Part 48 training plan to the district manager. These proposed revisions shall include initial and refresher training regarding compliance with the terms and conditions stated in the Order. The operator shall provide all miners involved in the mine through of a well with training regarding the requirements of this Order prior to mining within 150 feet of the next well intended to be mined through.
  - The responsible person required under 30 C.F.R. § 75.1501 is responsible

    RECEIVED for well intersection emergencies. The well intersection procedures should office of Oil and Gas be reviewed by the responsible person prior to any planned intersection.

    MAY 1 8 2023

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

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, within 30 days. The request for hearing must be files with the Administrator for Coal Mine Safety and Health, 1100 Wilson Boulevard, Arlington, Virginia 22209-3939.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing sire. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.

Charles J. Thomas

Deputy Administrator for

Coal Mine Safety and Health

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√v-Department of ∄nvironmental Protection

### Certificate of Service

I hereby certify that a copy of this Proposed Decision and Order was served personally or mailed, postage prepaid, this day of day of , 2013, to:

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

Caparia Tiula

SeDonia Little Secretary

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

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WW-7 8-30-06



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

## WELL LOCATION FORM: GPS

WELLIC	CATION FORM. OIS	
API: 47-001-00696	WELL NO.: 3340	<b>—</b> ,
		marries.
RESPONSIBLE PARTY NAME	Diversified Production LLC	_
COUNTY: Barbour	DISTRICT: Pleasant	-
QUADRANGLE: Philippi		
SURFACE OWNER: William E. Jr.	, and Gerry L. Jacobs	makang
ROYALTY OWNER: William E. J	r., and Gerry L. Jacobs	_
UTM GPS NORTHING: 4340484	.66	
	GPS ELEVATION: 1295,88'	
preparing a new well location plat f above well. The Office of Oil and O the following requirements:	05 meters :	
	Time Differential	
Mapping Grade GPS: Pos	at Processed Differentialat Processed Differential	
4. Letter size copy of the I the undersigned, hereby certify this	topography map showing the well location. Is data is correct to the best of my knowledge and a required by law and the regulations issued and	RECEIVED Office of Oil and Gas MAY 1 8 2023  WV Department of
Signature	Title Date	Environmental Protection

00696

WW-4A	
Revised	6-07

1)	Date:	May 1, 2023	
2)	Operator'	s Well Number	
3340	1		

001

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

NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

3) API Well No.: 47 -

4)	Surface Own	er(s) to be served:	5) (	(a) Coal Operator				
'/	(a) Name	William E. Jr., and Gerry L.		Name	CoalQuest Develop	ment, LLC		
	Address	471 Camp Run Road		_ Address	100 Tygart Drive			
	22002	Flemington, West Virginia	26347	_	Grafton, West Virgin	ia 26354		-
	(b) Name	Tremington, Front Figure		(b) Coal Ow	ner(s) with Decl			_
	Address			Name	ici(s) with Deci	aration		
	21441655			Address				_
								_
	(c) Name			Name	-			_
	Address	<b>-</b>		- Address				_
	ridaress			_				_
6)	Inspector	Randall M. Kirchberg		(c) Coal Less	see with Declara	ation		<del>-</del> 1
	Address	P.O. Box 1052		Name	oc with Declar	acion .		
	714411688	Buckhannon, WV 26201		- Address				_
	Telephone	(681) 781-9890			•			-
	тетернопе	(001) 101 0000		<del>-</del>	-			_
	well its (2) The place The reason y However, you Take notice t accompanyin Protection, w the Applicati	s and the plugging work at (surveyor's map) show ou received these document are not required to take any that under Chapter 22-6 of the g documents for a permit to ith respect to the well at the	order; and ring the well location is is that you have rigon action at all.  The West Virginia Code plug and abandon a vilocation described or mailed by registered	on on Form WW-6.  this regarding the applicate, the undersigned well of the will with the Chief of the attached Application or certified mail or deli	ntion which are summa perator proposes to fil Office of Oil and Gas n and depicted on the	arized in the instru le or has filed this i s, West Virginia De attached Form WV	Notice and Application and	VED
			Well Operator	Diversified Production I	IC .		Office of Offi	
			By:	Austin Sutler	Tust : A.	110	MAY 18	\$ 2023
			Its:	Asset Retirement Mana	iger -	WEL	11071 2	_
			Address	414 Summer Street	5		WV Depar	- ment of
			11441000	Charleston, West Virgin	ia 25301		Environmenta	Protection
			Telephone	(304) 543-6988			Ellyllollilolle	
			relephone	(001) 010 0000				-
	bscribed and so	worn before me this Expires	5-12 de	ny of May, 2023	Notary		OFFICIAL SEAL NOTAFTY PUBLIC STATE OF WEST VINGINIA Sandra L Mosser	3
		· · ·	/				2417 Julian Rd, Julian, WV 25529 Commission Expires Soptember 18, 202	ξ
Oil	and Gas Privac	y Notice				mmine	microsop	5

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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.



## WOLF RUN MINING LLC

May 15, 2023

William E. Jr., and Gerry Jacobs. 471 Camp Run Road Flemington, West Virginia 26347

Re: Plugging Permit – API # 47-001-00696 – Well No. 3340

Dear Mr. ands Mrs. Jacobs:

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

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

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

Sincerely,

Greg Nair

Manager Surface Mine Planning

Enclosures

CERTIFIED MAIL NO. 7022 1670 0000 9941 5373 RETURN RECEIPT REQUESTED RECEIVED
Office of Oil and Gas

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#### SURFACE OWNER WAIVER

Operator's Well Number

3340		

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

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

## NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

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

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

#### VOLUNTARY STATEMENT OF NO OBJECTION

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

I further state that I have objection to a permit being issued of			ed in these materials, and I have no
FOR EXECUTION BY A NATURA ETC.			EXECUTIONER YOU ARE CORPORATION, Office of Oil and Gas
	Date	Name	MAY 1 8 2023
Signature		By	
		Its	vvv pepartment of Date
			Environmental Protection

Signature

WW-4B

API No.	47-001-00696	
Farm Name	Jacobs & McCauley	
Well No.	3340	

### 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
has examined this proposed plugging work order.	her/ lessee/ of the coal under this well location. The undersigned has no objection to the work proposed to be has complied with all applicable requirements of the West
Date: 5 1 2023	CoalQuest Development, LLC
	By: Greg Nair Power of Attorney
	Its

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#### **POWER OF ATTORNEY**

# COALQUEST DEVELOPMENT LLC TO GREG NAIR

Dated: January 1, 2023

Expires: December 31, 2023

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

The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Resources, Inc. or any subsidiary thereof, or until December 31, 2023, or until such earlier time as this instrument has been revoked, annulled, rescinded or set aside by an instrument of revocation filed with the Secretary of the Company, whichever first occurs.

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

COALQUEST DEVELOPMENT LLC

By:\_\_\_\_

Rosemary L. Klein

Secretary

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

On this day of January, 2023, before me, the undersigned notary public, personally appeared Rosemary L. Klein, known to me to be the person whose name is subscribed to the within instrument and acknowledged that she executed the same for the purposes therein contained.

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

SARAH TRIBOUT

Notary Public, Notary Seal

State of Missouri
Franklin County

Commission # 03385705

My Commission Expires 11-08-2024

Notary Public

My Commission Expires: 11/8/2024

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WW-9 (5/16)

API Number	47 -	001		00696	
Operator's W			-		

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

Operator Name Diversified Production LLC	OP Code	
	Quadrangle Philippi (545)	1
Do you anticipate using more than 5,000 bbls of water	r to complete the proposed well work? Yes No _	$\checkmark$
Will a pit be used? Yes No		
If so, please describe anticipated pit waste: _		4
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?	
Proposed Disposal Method For Treated Pit W	Vastes:	
Underground Injection (U	ted provide a completed form WW-9-GPP)  FORM WW-9 for disposal location)  e attached letter	)
Will closed loop systembe used? If so, describe: Yes	s, Gel circulated from tank thru well bore ad returned to tank.	
Drilling medium anticipated for this well (vertical and	d horizontal)? Air, freshwater, oil based, etc. freshwater	and the same of th
-If oil based, what type? Synthetic, petroleur	m, etc.	
Additives to be used in drilling medium? Bentonite, Bi	lcarbonate or Soda	
Drill outtings disposal method? Leave in pit, landfill,	removed offsite, etc. removed offsite	
-If left in pit and plan to solidify what medium	m will be used? (coment, lime, sawdust)	
-Landfill or offsite name/permit number? Wo	olf Run Mining LLC - Permit No. O-113-83	
Permittee shall provide written notice to the Office of West Virginia solid waste facility. The notice shall be where it was properly disposed.	Oil and Cas of any load of drill cuttings or associated waste provided within 24 hours of rejection and the permittee shall	rejected at any Il also disclose
on April 1, 2016, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Viola or regulation can lead to enforcement action.  I certify under penalty of law that I have papplication form and all attachments thereto and that,	erms and conditions of the GENERAL WATER POLLUTION of West Virginia Department of Environmental Protection. It ations of any term or condition of the general permit and/oropersonally examined and am familiar with the information based on my inquiry of those individuals immediately response, accurate, and complete. I am aware that there are significant or imprisonment.	understand that the ther applicable law submitted on this assisted for o btaining
Company Official Signature Just Sut	te	RECEIVED
Company Official (Typed Name) Austin Sutler		Office of Oil and Gas
Company Official Title Asset Retirement Manager		MAY 1 8 2023
5. 1 1 200	day of May , 20 23	WV Department of Environmental Protection
My commission expires 20 0.t. 18, 20	Notary Public 27	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA

## DIVERSIFIED PRODUCTION LLC

414 SUMMER STREET, CHARLESTON, WEST VIRGINIA 25301

May 1, 2023

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

To Whom It May Concern:

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

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

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to Wolf Run Mining LLC DEP impoundment facilities O011383 or to an approved facility that can handle the material.

Sincerely,

Austin Sutler

Asset Retirement Manager

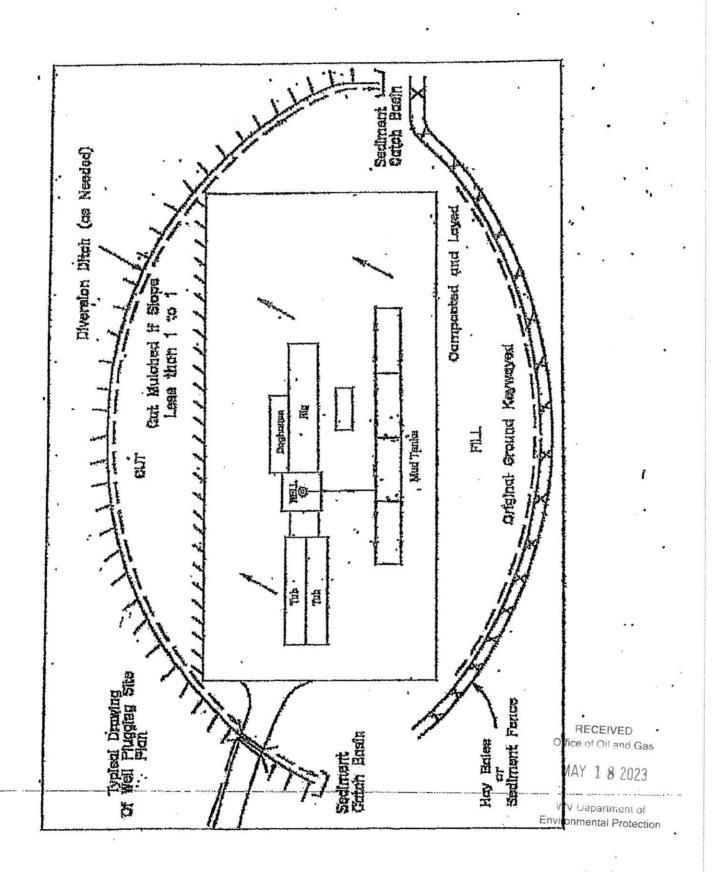
Tustistitle

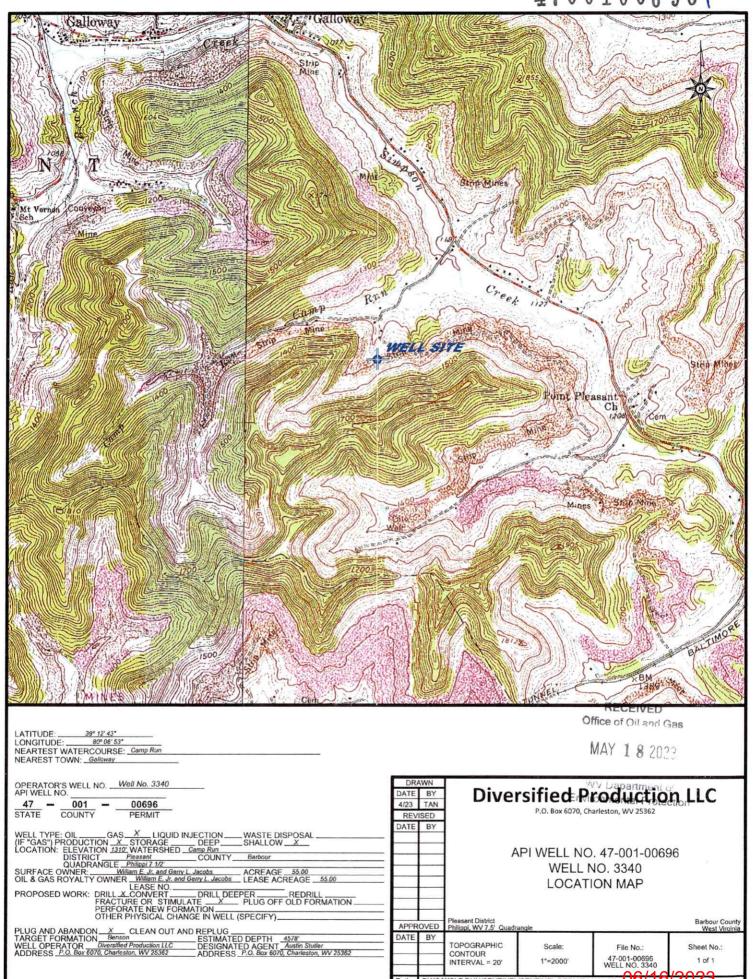
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Form WW-9		Operator's W	Operator's Well No. 3340		
Proposed Revegetation Treatn	nent: Acres Disturbed 1.5	0 / 2.0 Preveg etation pI	И		
Lime 3	Tons/acre or to correct	to pH 6.5			
Fertilizer type 10-20	0-20 or equivalent				
Fertilizer amount 50	0	lbs/acre			
Mulch_ Hay Bales		Tons/acre			
		Seed Mixtures			
Temporary		Perman	nent		
Seed Type	lbs/acre	Seed Type	lbs/acre		
Orchard Grass	12	Orchard Grass	12		
Landino Clover	3	Landino Clover	3		
Timothy	10	Timothy	10		
Photocopied section of involve	ed 7.5' topographic sheet.				
Plan Approved by:	ndall M. Kirchberg Digitally signed by Date: 2023.05.17 (	Randall M. Kirchberg 08:51:48-04'00'			
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litle:		Date:	Office of Oil and O		

Environmental Protection







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

## plugging permit issued for 4700100696

1 message

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

Tue, Jun 13, 2023 at 1:57 PM

To: "Duckworth, Charles" <cduckworth@archrsc.com>, Austin Sutler <asutler@nextlvlenergy.com>, Randall M Kirchberg <randall.m.kirchberg@wv.gov>, spencer@assessor.state.wv.us

To whom it may concern, a plugging permit has been issued for 4700100696.

James Kennedy

WVDEP OOG

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