

west virginia department of environmental protection

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

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

Monday, December 6, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

ICG TYGART VALLEY, LLC 100 TYGART DR GRAFTON, WV 26354

Re: Permit approval for 1 47-091-00080-00-00

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. Mar Chief

Operator's Well Number: 1 Farm Name: BUSH HEIRS U.S. WELL NUMBER: 47-091-00080-00-00 Vertical Plugging Date Issued: 12/6/2021

Promoting a healthy environment.



# **PERMIT CONDITIONS**

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

3.		4709100080P
WW-4B Rev. 2/01		1) Date November 5 , 20 21 2) Operator's Well No. 1 3) API Well No. <u>47-91</u> - 00080
	DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PER	AIT TO PLUG AND ABANDON
4) Well		d injection/ Waste disposal/ derground storage) Deep/ Shallow <mark>X</mark>
5) Loca	tion: Elevation 1240'	Watershed Siggens Run
		County Taylor Quadrangle Thornton (638)
6) Well	Operator ICG Tygart Valley, LLC	7)Designated Agent Charles E. Duckworth
	Address 100 Tygart Drive	Address 100 Tygart Drive
	Grafton, WV 26354	Grafton, WV 26354
8) Oil	and Gas Inspector to be notified	9)Plugging Contractor
	ame Bryan Harris	Name Coastal Drilling East, LLC
A	ddress P.O. Box 157	Address 130 Meadows Ridge Road
	Volga, WV 26238	Mt. Morris, PA 15349
10) Work	Order. The work order for the man	ner of plugging this well is as follows:
	xhibit Nos. 1 and 2 and MSHA 101-C E	0
		DECEMBER 1, 1965.

ICG Tygart Valley, LLC (47-091-01089)

Leer Mine (MSHA ID# 46-09192

MSHA 101-C Docket No. M-2012-065-C

Appropriate coal seam top = 342.26' Approximate coal seam bottom = 346.80'

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

Work order approved by inspector \_\_\_\_\_ Bryan Harris\_\_\_\_

11/29/21 Date

RECEIVED Office of Oil and Gas

NOV 3 0 2021

WV Department of Environmental Protection

12/10/2021

EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, ICG Tygart Valley, LLC will utilize the following method to plug all future wells.

### SOLID PLUG METHOD

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

PARMOUSLY PLUGGED 12/01/1965

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WV Department of Environmental Protection

12/10/2021

### EXHIBIT II



Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349

Phone 304-296-1120 Fax 304-413-0061

"A Shaft Drillers International Company"

Mr. Chuck Duckworth Gas Well & Property Manager Arch Resources, Inc. – Leer and Leer South Mine Complexes 100 Tygart Drive Grafton, WV 26354

Mr. Duckworth,

Below is the proposed plugging plan we discussed that can be used on previously plugged gas wells like the wells we have been MSHA plugging for the last few years. Specific tasks will evolve due to conditions found in field and in the actual wellbore.

### **Plugging Plan**

- Move to site, rig up, mix mud, drill rathole
- Clean out wellbore through the first cement plug, to a point at least 100' below sea level. We may need to cleanout deeper, tagging the top of the next most competent cement plug.
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement bottom hole from new TD back to 400' below lowest mineable seam (Clarion and/or Lower Kittanning).
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition.
- Clean back to bottom and log wellbore to verify window placement and casing cuts as required.
- Cement hole from top of tagged plug to surface using cement required by MSHA's 101C Petition.
- Rig down and set monument as required by WV OOG.

### MSHA IOIC EVENPTION

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face area will be available. The fire hose will be located near the working face.

(5) Sufficient supplies of roof support and vantilation materials will be available and located near the working face. In addition, an emergency plug and/or plugs will be available within the immediate area of the wall intersection.

(6) Equipment involved in mining through the well will be checked for permissibility and serviced on the maintenance shift prior to mining through the well. The methane monitor on the continuous mining machine involved in mining through the well will also be calibrated on the maintenance shift prior to mining through the well.

(7) When ruining is in progress, tests for methane will be made with a handheld methane detector at least every 10 minutes, from the time that mining with the continuous mining machine is within 30 fact of the well until the well is intersected, and immediately prior to mining through. During the actual cutting-through process, no individual will be allowed on the return side until mining-through has been completed and the ocea has been examined and declared safe.

(8) The working area will be free from accumulations of coal dust and coal spillages, and rock dust will be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well.

(9) When the well is intersected, all equipment will be deenergized and the place thoroughly examined and determined safe before mining is resumed.

(10) Any casing will be removed and no open flame will be permitted in the area until adequate ventilation has been established around the well.

(11) After a well has been intersected and the working place determined safe, mining will continue inby the well at a distance sufficient to permit adequate ventilation around the area of the well.

(12) No person will be permitted in the area of the mining-through operation except those actually engaged in the aperation, company personnel, personnel from MSHA, and personnel from the Kentucky OMSL.

from the Kentucky OMSL. (13) The mining-through operation will be under the direct supervision of a certified individual. Instructions concerning the mining-through operation will be issued only by the certified individual in charge. MSHA personnel may interrupt or halt the mining through operation when necessary for the safety of the miners.

(14) Within 30 days after this Order becomes final, the petitioner will submit (Oil and gas wells).

proposed cevisions for its approval mine emergency evacuation and frefighting plan required by 30 CFR 75.1501. The petitioner will revise the plans to include the hazards and evacuation procedures to be used for well intersections.

The petitioner further states that this petition will apply to all types of mining (conventional, continuous, and longwall) and asserts that the proposed alternative method will at all times provide a measure of protection no less than that of the existing standard. Docket Number: M-2012-064-C.

Petitioner: Lone Mountain Processing, Inc., Drawer C, St. Charles, Virginia

24282, Mine: Mine No. 1, MSFIA I.D. No. 15-18734, Route 636 Benedict Road, St.

10734, Kotte 335 Benefiter Road, St. Charles, Virginia 24282, located in Harlan County, Kontucky. Regulation Affected: 30 CFR 75,208

(Warning devices).

Modification Request: This petitioner requests a modification of the existing standard to permit a readily visible warning to be posted at the second row of permanent roof support onby unsupported roof or a physical barrier to be installed to impede travel beyond permanent support, except during the installation of roof supports. The politioner states that:

(1) The Kentucky Office of Mine Safety and Licensing requires "a warning device to be installed on the second row of permanent roof support outby unsupported roof."

(2) MSHA's approved Precautions for Remote Control Operation of Continuous Mining Machines states that "While using remote controls, the continuous mining machine operator and all other persons will position themselves no closer than the second 'full row' of installed root holts outby the face."

(3) This petition is necessary to improve safety and to altain commonality between State and Federal regulations.

(4) Safety increases when the distance au employee keeps from unsupported toof increases.

The petitioner asserts that the proposed alternative method will at all times guarantee no loss than the same measure of protection afforded by the existing standard.

Docket Number: M-2012-065-C. Petitioner: ICC Tygart Valley, LLC, 1200 Tygart Drive, Grafton, West Virginia 26354.

*Mine:* Tygart #1 Mino, MSHA I.D. No. 46–09192, located in Taylor County, West Virginia.

Regulation Affected: 30 CFR 75.1700 (Oil and gas wells). l'adification Request: The petitioner requests a modification of the existing standard requiring that berriers be established and maintained around oil and gas wells penetrating coalbeds or underground areas of coal mines to permit an alternative method of

compliance. The petitioner states that: (1) The mine is projected to encounter vertical in-seam boreholes, typical to oil and natural gas wells, as mine development progresses.

development progresses. (2) The active development section is approaching these boreholes, and is projected to encounter additional boreholes in the future as mining aperations continue.

(3) The procedure presented in this patition will be used to ensure that mining through these borcholes is accomplished safely and, as an atternative to compliance with 30 CFR 75.1700, will provide no less than the same measure of protection to the miners, as required by the MSHA standard.

The petitioner proposes to use the following procedures when plugging oil or gas wells:

(1) Prior to plugging an oil or gas well, a diligent effort will be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole will be cleaned out to a depth that would permit the placement of at least 200 feet of expanding coment below the base of the lowest minable coal bed.

(2) When cleaning the borehole, a diligent effort will be made to remove all of the casing in the borehole. If it is not possible to remove all of the casing, the casing that remains will be perforated or ripped at intervals spaced close enough to permit expanding coment shurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest minable coal bed.

(3) If the cleanad-out borshole produces gas, a mechanical bridge plug will be placed in the borshole in a competent stratum at least 200 feet below the base of the lowest minable coal bad, but above the top of the uppermost hydrocarbon-praducing stratum. If it is not possible to set a machanical bridge plug, a substantial brush plug may be used in its place. The District Manager may allow the

The District Manager may allow the use of other effective methods of stopping any and all gas flow emitting from the wellbore before placement of cement through the minable coal seam(s). Such approval will be documented in a written response to the operators' submittal of a detailed explanation of the method to be used

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nd an anglaseering evaluation of the relative effectiveness of the distinctive.

(4) A suite of logs will be made, consisting of a caliper survey, directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest minable coal bed and potential hydrocarbon-producing strata and the location for the bridge plug.

(5) If the upparmost hydrocarbonproducing stratum is within 200 feet of the base of the lowest minable coal bed, properly placed mechanical bridge plugs or a suitable brush plug described in paragraph (3) above will be used to isolate the hydrocarbon-producing stratum from the expanding coment plug. Nevertheless, a minimum of 200 feet of expanding coment will be placed below the lowest minable coal bad.

(6) The wellbore will be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and increases the density of the expanding cement. This gel will be pumped through open-end lubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.

The petitioner proposes to use the following procedures when plugging gas and oil wells to the surface:

(1) A coment plug will be set in the wellbore by pumping expanding cement slurry down the tubing to displace the gel and fill the horehole to the surface. As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled. There will be at least 200 feet of expanding coment below the base of the lowest minable coal bed.

(2) A marker conforming to the requirements of the state regulatory authority will be installed at the borehole, or a small quantity of steel turnings or other small magnetic particles will be embedded in the top of the cement near the surface. The method used will be suitable to serve as a permanent magnetic monument of the borehole.

The following procedures will be used for the vent pipe mellied for plugging oil and gas wells:

(1) A 4½-inch or larger pipe will be run into the wellbore to a depth of 100 feet below the lowest minable coal bed and wedged to a smaller diameter pipe that, if desired, will extend to a point approximately 20 feet above the bottom of the cleaned-out area of the borghole or bridge plug.

(2) A carrient plug will be set in the wellbore by pumping expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gal so that the horeholo is filled with cement. The borehole and the vent pipe will be filled with expanding coment for a minimum of 200 feet below the base of the lowest minable coal bed. The top of the expanding coment will extend upward to a point approximately 100 feet above the top of the lowest minable coal bed.

(3) All fluid will be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement will not be disturbed.

(4) The top of the vent pipe will be protected to prevent liquids or solids from entering the wellboxe, but permit ready access to the full internal diameter of the vent pipe when necessary.

The petitioner proposes to use the following procedures when plugging oil or gas wells for subsequent use as degasification boreholes;

 A cement plug will be set in the wellbore by pumping expanding cement shurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest minable coal hed. The top of the expanding cement will extend upward to a point above the top of the coal hed being mined. This distance will be based on the average height of the roof strata breakage for the mine.
 To facilitate mellane drainage.

(2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, will be set in the borehole to a point 10 to 30 feet above the top of the expanding comput.

(3) The annulus between the degasification casing and the borehole wall will be comented from a point immediately above the slots or perforations to the surface.

(4) The degasification casing will be cleaned out for its total length,

(5) The top of the degasification casing will be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shut-in valves, sampling port, flame arrestor equipment, and security foncing.

The following alternative procedures for preparing and plugging oil and gas wells will apply to wells that the petitioner and the District Manager agree cannot be completely cleaned out due to damage to the well caused by subsidence, caving, or other factors; as determined by the petitioner and agreed to by the District Manager. These provisions will apply unless alternative measures are agreed upon and based upon a plan submitted to the District Manager:

(1) The petitioner will drill a hole adjacent and parallel to the well to a depth of at least 200 feet below the lowest minuble coal seam. [2] The petitioner will use a

geophysical sensing device to locate any cosing that may remain in the well. (3) If the well contains casing(s), the

petitioner will drill into the well from the parallel hole. From 10 feet below the coal seam to 10 feet above the coal seam, the petitioner will perforate or rip all casings at intervals of at least 5 feet Beyond this distance, the petitioner will perforate or rip at least every 50 feet from at least 200 feet below the base of the lowest minable coal seam up to 100 feet above the seam being mined. The petitionor will fill the annulus between the casing, and between the casings and the well wall with expanding coment. (minimum 0.5 percent expansion upon setting), and will ensure that these areas contain no voids. If the petitioner, 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 petitioner 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 that remains will be ripped or perforated and filled with expanding coment 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 petitioner determines and the District Manager agrees that there is insufficient casing in the well to aliow the method outlined in paragraph (3) above to be used, then the petitioner will use a horizontal hydraulic fracturing technique to intercept the original well. From at least 200 feet below the base of the lowest minable coal seam to a point at least 50 feet above the seam being mined, the petitioner will fracture at least six places at intervals to be agreed upon by the petitioner and the District Manager after considering the geological strata and the pressure within the well. The petitioner will then pump expanding cement into the fractured well in sufficient quantities and in a monner that fills all intercepted voids.

(5) The petitioner will prepare downhole logs for each well. The logs will 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 petitioner 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

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necessary to obtain the log The District Manager may approve the use of a down-hole cameral survey in list of down-hole logs if, in his or list judgment, such logs would not be suitable for obtaining the data or are impractical to obtain due to the condition of the drill hole. A journal will be maintained describing the length and type material used to plug the well; the length of casing(s) removed, perforated, or ripped or left in place; and other pertinent information concerning sealing the well.

concerning sealing the well. (6) After the petitioner has plugged the well, the petitioner will plug the open portions of both holes from the bottom to the surface with Portland. cement or a lightweight comont mixture. The petitioner will embed steel turnings or other small magnetic particles in the top of the coment near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 412-inch or larger casing set in coment will extend at least 36 inches above the ground level. A combination of the methods outlined in paragraph (3) and (4) above may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The potitioner and the District Manager may discuss the nature of each hole and the District Manager may require the use of more than one method.

The petitioner proposes to use the following cut-through procedures whenever the safety barrier diameter is reduced to a distance less than the District Manager would approve pursuant to \$75.1760 or the petitioner proceeds with an intent to cut through a plugged well:

(1) Frior to reducing the safety barrier to a distance less than the District Manager would approve or proceeding with intent to cut through a plugged woll, the petitioner will notify the District Monager.

(2) Mining in close proximity to or through a plugged well will be done on a shift approved by the District Manager.
(3) The District Manager, a

(3) The District Manager, a representative of the minors, and the appropriate States agency will be notified by the operator in sufficient time prior to the mining-through operation to provide an opportunity for them to have a representative present.

(4) When using continuous mining equipment, drivage sights will be installed at the lost open crosscut near the place to be mined to ensure intersection of the well. The drivage sights will not be more that 50 feet from the well. When using longwall mining methods, drivage sights will be installed on 10-foot centers for a distance of 50 feet in advance of the well word. The drivage rights will be installed in the headgate and tailgate.

(5) Firefighting equipment, including five extinguishers, rock dust, and sufficient five hose to reach the working face-area of the mining-forough will be available when either the conventional or continuous mining method is used. The five hose will be located in the last open crosscut of the entry or norm. All fire hoses will be ready for operation during the mining-through.

(d) Sufficient supplies of roof support and ventilation materials will be available and located at the last open crosscut. In addition, an energency plug and/or plugs will be available in the immediate area of the cut-through.

(7) The quantity of air required by the approved mine ventilation plan, but not less than 6,000 cubic feet per minute (cfm) of air for scrubber-equipped continuous miners or not less than 9,000 cfm for continuous miner sections using auxiliary fans or line brattice only, will be used to ventilate the working face during the mining-through operation. The quantity of air required by the ventilation plan, but not less than 30,000 cfm, will reach the working face of each longwall during the miningthrough operation.

(8) Equipment will be checked for permissibility and serviced on the shift prior to mining-through the well. The methane monitors on the continuous mining machine or the longwall shear and face will be calibrated on the shift prior to mining through the well.

(9) When mining is in progress, tests for methane will be made with a handheld methane datector at least every 10 minutes from the time that mining with the continuous mining machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, tests for methane will be made at least every 10 minutes when the longwall face is within 10 feet of the well. During the actual cutting-through process, no individual will be allowed on the return sido until mining through has been completed and the area has been examined and declared safe.

(10) When using continuous mining methods, the working area will be free from accumulations of coal dust and coal spillages, and rock dust will be placed on the roof, rib, and floor to within 20 feet of the face when mining through or near the well on the shift or shifts during which the cut-through will occur. On longwall sections, rockdusting will be conducted and placed on the roof, sib, and floor up to both headgate and tailgate gob. [11] When the wellbore is intersected.

(11) When the wellboro is intersected, all equipment will be deenargized and the area thoroughly examined and determined safe before mining is resumed. Any well casing will be removed and no open flame will be permitted in the area until adequate ventilation has been established around the wellbore.

(12) After a well has been intersected and the working area determined safe, mining will continue inby the well at a distance sufficient to permit adequate ventilation around the area of the wellbore.

(13) No person will be parmitted in the area of the mining-through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency. (14) The mining-through operation

(14) The mining-through operation will be under the direct supervision of a certified official. Instructions concerning the mining-through operation will be issued only by the certified official in charge. MSHA personnel may interrupt or halt the mining-through operation when necessary for the safety of the miners.

(15) The petitioner will file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a cartification by the petitioner that the well has been plugged as described.

(16) Within 60 days after the Proposed Decision and Order (PDO) becomes final, the petitioner will submit proposed revisions for its approved 30 GER Part 48 training plan to the District Manager. The provisions will include initial and refresher training regarding compliance with the terms and conditions stated in the PDO.

The petitioner asserts that the proposed alternativo method will at all timds guarantee miners no less than the same measure of protection as afforded by the existing slandard.

Docket Number: M-2012-002-M. Potitioner: Hecla Greens Crook Mining Company, P.O. Box 32199, Juneau, Alaska 99803.

Mine: Greens Greek Mine, MSEIA I.D. No. 50–01267, located in Juneau County, Alaska.

Regulation Affected: 30 CFR 57.14130 (Roll-over protective structures (ROPS) and seat balts for surface equipment).

Modification Request: The pelitioner requests a modification of the existing standard to permit employees to be transported 1,600 feet to and from the surface dry facility to work sites underground using underground mine

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

#### AFFIMAT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, GHE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE ININD COPY (AND BETTA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ACORESSES.

Not Operated	Barron Kidd		
COAL OPERATOR OR OWNER	NAME OF WELL CPERATOR		
A- W. Hellon Educational & Charitabl	C Tr. 273 Holbourne PL. Fort	hington. Chio	
Enotern Goo & Muris Ave:	COMPLETE ADDRESD		
5 Thy Hellon Benk Trust Dept.	Dec. 12, 1465	19	
PITTCIJUT BALSON PATOR OR OWNER	WELL AND LOCATION		
an <u>te ana serie de transferie de transferie</u>	Fotternon	District	
ADURES			
Bush Hrs. 5 Richard Bord	Toylor	County	
Grofton, V. vc.	Well, No. 1		
ADDRESS			
	XINIX Rush Rrs.	Faim	
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STATE INSPECTOR SUPERVISING PLUGGING			

#### AFFIDAVIT

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STATE OF WEST VIRGINIA,

County of

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... Georre L. Reynolds Jorry L. Saith and. being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by <u>S. H. Jack Prilling Co.</u> well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the <u>lat</u> day of <u>December</u> and filled in the following manner: , 19<u>65</u>, and that the well was plugged

SAND OR ZONE RECORD	FILLING MATERIAL	PLUGE USED	CAUING	
FORMATION .		. BIZE & KIND	GBQ PULLED	CBQ LEFT IN
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and that the work of plugging and filling said well was completed on the lst day cf December

\_, 19<u>65</u> And further deponents saith not.

Sworn to and subscribed before me this

My commission expires: 3-28-7.3

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12/10/2021

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Notary Public.

Deceaber.

Permit No.

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N PWG Y

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Baye         Reath         Intering         Intering <thintering< th=""> <thintering< th=""> <thinter< td=""><td></td><td></td><td>e Pl . Hor</td><td>thington.</td><td>Ohio Tubiak</td><td>Drilling ?</td><td></td><td> Packers</td></thinter<></thintering<></thintering<>			e Pl . Hor	thington.	Ohio Tubiak	Drilling ?		Packers
Locking, (aster)       Stiggens, Run       Bine       It is in the intervent intervent intervent in the intervent in	Burn Bush	Foirs		Acres 90%				· · · · · · · · · · · · · · · · · · ·
Way State     Continue     Normal Control Taylor     Normal Control Taylor <td>Location (waters'</td> <td><u>SLoge</u></td> <td>ne Run</td> <td></td> <td>Size</td> <td>1 1 4 A A A A</td> <td></td> <td>· · · · · · · · · · · · ·</td>	Location (waters'	<u>SLoge</u>	ne Run		Size	1 1 4 A A A A		· · · · · · · · · · · · ·
Delifier Featherman County Taylor in 2223 122.5 mit/15 skin in 2223 122.5 mit/15 skin in 2223 122.5 mit/15 skin in 2235 1235 1235 1235 1235 1235 1235 1235	Welsho			Em 12401		1		
The surface of track is owned in Ed. by David Gragge Mineral rights are orged by <u>Bush Intersed</u> advanta Thortsed advanta Thortsed advanta Thortsed advanta Thortsed advanta Thortsed advanta Thortsed advanta Construction advanta Construction Den Ford / John set Grag brilling competent Den Ford / John set Grag Den For						1. 99.000		
Minest richt er örzet by Rich3i Haltra     94     975     362 chit/65 ska 6       c/O Richardt Bord Adven     Grafton     53/a     // Daph set. 6/ 200       Drilling commenced     11223-65     53/a     // Disp set. 6/ 200       Drilling commenced     11223-65     7     7       Data Shot     Prom     1     29-65     7       Data Shot     Prom     1     1     7       Open Flog     //Olin Mine, In     Data     1     7       Open Flog     //Olin Mine, In     Data     1     7       Onke Presure     Data     Data     1     7       Onke Presure     Data     Data     1     7       Other Prom     Data     Data     1     7       Onke Presure     Data     Data     1     7       Onke Presure     Data     Data     1     7       OCAL PRESURE AFPER TREAMENT     Prest     10     1       VELL PLACTURED     Data     Soft     10     10       Stall & Clay     Soft     20     33     107       Stall & Clay     Soft     100     100     100       Stall & Clay     Soft     100     100     100       Stall & Clay     Soft     <								
Minnert rights are spread by	THE BUILDER OF CH	ICE IS OWNED I	a lee oy tokka				,00	
ELV AMPRIA     DOTE Address     Save Construction     Save Construction       Data Stat     11-29-65     2       Data Stat     Prov.     To       Wh     Prov.     To       Open Flor     /1000 Marc in     Data       Machine     Data     Data       Prov.     Prov.     Prov.       Water     Prov.     Prov.       Prov.     Prov.     Prov.       Prov.     Prov.     Prov.       Prov.     Pr	101				B16		JUG GALL	0 <u>0 808 0</u>
Delling commendent     11-23-65       Delling complied     11-29-65       Delling complied     11-29-65       With     Ta       With     Pert Adapt       Open Flort     /1018 Mar. In       Junce     International State       Weins     International State       WEIL ACIDIZED     International State       WEIL PRACTURED     International State       WEIL PRACTURED     International State       Weill PRACTURED     International State       Weill PRACTURED     International State       Weill PRACTURED     International State       Weill PRACTURED     International State       State     International State       Prest     Gait Weiter       Prest     State       State     International State       St	alleral rights ar	e owgee by					/ De	pth set
Drilling complicies 11-22-65 the promine of the pro			Address		53/18			
Date Shot     Prom     To     Lings Use     Pert Aup       With	Drilling commence	ed			3			
Date ShotPromToIndex UsedProt. topProm	Drilling complete	المستبلية	1-29-02		2		Pe	rf. bottom
Open Flor     /10tha Wester in     Inch       //10tha More, in     Desite     Ch. PP       Naima     INONE       Neith     INONE       Statio     INONE       Statio     INONE       S	Date Shot	Pro	m7	۵	Liners Used_	<u> </u>		
Open Flor     /101in Weire in     Incid       Adama / 1002     Adama Construction     Size     Na. P.       Direct Pressure     Direct Pressure     Cont yras Encountreact and the second the second the second the second and the second and the	With	<del></del>	<u> </u>		<u> </u>			
statement     Itolia     Main of Calenation     Ma	Open Flow	/10ths Water	In	Tpel		1. 1. 1.		ST.
Velume 1     HOXE     CARING CEMENTED     RIPE     D       Inck Frequence     Inc     Inc     Inc     Inc     Inc     Inc       WELL ACIDIZED     Inc     Min. Lat 20 km     COAL WAS ENCOUNTERED AT. 1072 FEET 36 INCER       WELL FRACTURED     Int     Int     FEET     INCHES     FEET     INCHES       WELL FRACTURED     Int     FEET     INCHES     FEET     INCHES     FEET     INCHES       WELL ATTER TREATMENT     Feet     Gait Wate     Feet     <					<u>.</u>	<u>.</u>	4	
Nock Pressure     Dial     Main     Ablis, lat 50 hrs.     COAL YAS ENCOUNTEERED AT. 1078 FRET. 36 INCH.       WELL ACIDIZED     FEET     INCHES     FEET     INCHES       WELL FRACTURED     FEET     INCHES     FEET     INCHES       WELL AFFEE TREATMENT     Feet     Feet     INCHES     FEET     INCHES       RESULT AFFEE TREATMENT     Feet     Gait Water     Feet     Feet     Feet       Result affective     208     Feet     Gait Water     Feet     Feet       Formation     / Coor     Bottor     Gait Water     Feet     Feet       Stand & Cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     20     35     Bottor     Gait Water     Feet       Stand & cidry     250     600     465     Fase     Gait Wa					CASING CE	MENTED	SIZENo.	FtD
ORL     Iblin, 1st 24 hrs     COAL YAS ENCOUNTERED AT. 1072 FEET. 35 INCE       WELL ACIDIZED     FEET     INCHES     INCHES     FEET     INCHES     FEET     INCHES     FEET     INCHES     INCHES     INCHES     INCHES     INCHES     INCHES     INCHES			The new second	1	1		· · · · · · · · · · · · · · · · · · ·	
WELL ACIDIZED PEET INCHES FEET						ENCOUNTERED	AT 107 PR	T 36 INCH
PEER     INCHES     PEER     INCHES       RESULT AFFEE TREATMENT     Fort     Gait Water     Fort       ROCK PRESSURE AFTER TREATMENT     Fort     Gait Water     Pert       Permi Water     90°     Fort     Gait Water     Pert       Permi Water     90°     Fort     Gait Water     Pert       Permi Water     90°     107     Iter     Bettom     Oll Gas       Sand & Clay     0     20     35     Remarks       Coal     107     Iter     90°     Namerks       Sand & Clay     0     20     35     Remarks       Sand & Clay     0     20     35     Remarks       Sand & Clay     0     20     35     Remarks       Sand, broken     465     730     400     465       Sand, broken     730     940     970     1004       Sand & Info     730     940     970     1034       Sand & Info     1038     1130     130     130       Sand & Info     1038     1384     1034     1034       Sand & Info     1304     1368     1364     1368       Sand & Info     1304     1426     1654     1654       Sand & Info     1368<	• •							
WELL FRACTURED RESULT AFFEE TREATMENT Frend Water Sort Prest TREATMENT Frend Water 90° Prest Sond Coley Sand & Clay Sand & Clay			······			•		
RESULT AFTER TREATMENT ACCL PRESSURE AFTER TREATMENT Frein Water 90° Feet Sait Water Pret Formation / Color Engine of the sait Water Depth Formation / Color Engine of the sait Water Depth Formation / Color Engine of the sait Water Depth Color Water 90° Color Water Depth Color Water 00° Color Water Depth Color Water 00° Color Water Depth Color Water 00° Color Water Depth Sand & Stole Color Water Depth Color Color Color Water Depth Color Color Color Water Depth Color Color Color Water Depth Color Color Color Color Water Depth Color Color					·	etinci	resFee	TINCH
RESULT AFTER TREATMENT ROCK PRESSURE AFTER TREATMENT Freih Water 90° Feet Sait Water Depth Remarks CLay Sand & Clay Sand & Sandy Sand & Drokan Red Tock & shale Sand & Drokan Red Tock & shale Sand & Line Sand & Line Sand & Sinale, gandy Sand & Sinale Sand & Sinale, gandy Sand & Sinale Sand &					<u> </u>			
Claw     Soft     199     Detting     or Writer     Depth     Remarks       Clay     0     20     35     35     35     35     35       Sand     33     107     110     250     35     35     35       Sand, brokan     30     110     250     400     465     35     36<	Fresh' Water	<u></u>	<del>ring in a</del>		Salt Water_		Peet	
Sand & cldy Sand Sand Sand, broken Shale, bardy Sand, broken Sand, broken Sand, broken Sand, broken Sand, broken Sand & ilme Sand & ilme Sand & ilme Shale, bard, fig Lime Lime, bro., fig Lime Lime, bro., fig Lime Sand & 1130 1135 1136		Color	Hard of Soft	Тор	Bettom	Oil, Gas . or Water	Depth'	
Sand Coal . Shala, bandy Shala, brokan Shala & rad rock Sand, brokan Rad rock & shale Sand, brokan Rad rock & shale Sand, brokan Rad rock & shale Sand & Line Red rock & Shale Shale, darkt Lime, bro, blg Lime Lime, bro, blg Lime Lime, bro, blg Lime Shale, sandy, broken Sand Sand Sand Sand, Limay Red rock & shale Sand Shale, sandy, broken Sand Sa	Clay	J · ·	<u>∲</u> . ,		20			···
Goal107110Shalla, bardy110250Sand, brokan250400Shala & rock465730Rad rock & shla730940Sand, brokan940970Rad rock & shla940970Sand & Lina10041034Sand & Lina10381130Lime, brn, Big Lina1130Lime, brn, Big Lina12607Sand1364Sand1364Sand1364Sand1654Sand1654Sand, broken1654Sand, broken1775Shale, endy2084Sinle, very sandy2160Shale, very sandy2160Shale, very sandy2160	sang & cld	97. T	1	1 744 1				
Shala, bardy110250Sand, broken400465Sand, broken465730Sand, broken465730Sand, broken940970Red rock & shle940970Sand & Lime10041034Sand & Lime10341088Stale, dark10341088Stale, dark10341034Lime, brn, Big Lime11301195Lime, brn, Big Lime11301195Lime, brn, Big Lime11301195Lime, brn, Big Lime11301260Sand, Limay12601304Lime brn, Big Lime13041368Sand, Limay12601304Lime brn, Big Lime13661364Sand, Jimay12601304Sand13641368Sand13641424Sand16541670Shale, sandy16541670Shale, sandy2084Sand, broken2160Sand, broken1260Sand, broken1670Shale, sandy2084Sand, broken2160Sinle, very sandy2160Sinle, very sandy2160Sinle, very sandy2160								
Sand, brokan Shale & rdd rock Sand, brokan Rad rock & shle Sand, brokan Rad rock & shle Sand, brokan Rad rock & shale Sand & Line Shale, darit Line, brn., Big Line Line, brn., Big Line Line, brn., Big Line 1130 1130 1130 1250 Sand, Liney Red rock & shale Sand Sand, Liney Red rock & shale Sand Sand Sand, Liney Red rock & shale Sand Sand, Liney Red rock & shale Sand Sand, Liney Red rock & shale Sand Sand, Liney Red rock & shale Sand Sand Sand, Liney Red rock & shale Sand	Sand		··. ··	35	107		<b>90</b> ° ଇ	••••
Shala & rdd rock400465Sand, brokan730940Sand, brokan940970Sand, brokan9701004Sand & Lina9701004Red rock & shala9701004Sund, darit10341088Lime, brn, Big Line11301195Lime, brn, Big Line11301260Sand, Limsy12601304Red rock & shale13041368Sand, Limsy12601304Sand, Limsy13681364Sand13681364Sand, broken16541654Sand, broken16541670Sand, broken16541670Sand, broken16541660Sand, broken16541660Sand, broken16541660Sand, broken16541660Sand, broken16541660Sand, broken16541660Sand, broken16701775Shale, sandy20842101Sinle, very, sandy21602280	Sand Coal			35	107	WR. (	<b>90*</b> •	• •
Sand, broken Red rock 6 shle Sand, broken Red rock 6 shale Sand 6 Line Red rock 8 Line Stale, dark Line, bra, Big Line Line, Big Line, Big Line Line, Big Line, Big Line Line, Big Line Line, Big Line, Big Line Line, Big Line, Big Line Line, Big Line, Big Line, Big Line Line, Big Line, Big Line Line, Big Line, Big Line, Big Line Line, Big Line, B	Sand Coal Shalo, ban	dy		35 107 110	107 110 250	Htt. (	<b>90</b> ° ଇ	
Red rock & shie730940Sand, broken940970Red rock & lime970Sand & lime1034Red rock & lime1034Red rock & lime1038Sule, darit1038Lime, brn., Big Lime1130Lime, brn., Big Lime1130Lime, brn., Big Lime1130Lime, sandy, broken1195Sand, Limay1260Red rock & shale1304Sand, Limay1304Red rock & shale1358Sand1388Sand1384Sand1654Sand1654Sand1654Sand1654Sand2084Sandy2084Sandy2084Sandy2084Sandy2084Sandy2084Sandy2084Sandy2084Sandy2084Sandy2084Sandy2160Sandy2280	Sand Coal Shale, ban Sand, brok	dy en		35 107 110 250	107 110 250 400	Htr. (	<b>90</b> * ଇ	
Red rock 6 shale Sand 6 line Shale, dark Lime, brn, Big Lime Lime, sandy, broken Sand, Limey Red rock 6 shale Sand Sand Shale, sandy Sand Shale, sandy Shale, sandy Sand Shale, sandy Sand Shale, sandy Shale, sandy Shale	Sand Goal Shale, ban Sand, brok Shale & re	dy on d rock		35 107 110 . 250 400	107 110 250 400 465	Her. (	<b>90</b> ° n	
Sand & line Red rock & lime Shale, darit Line, birn, Big Line Line, sandy, broken Sand, Limey Red rock & shale Sand Red rock & shale Sand Sand Shale, sandy Sand, broken Shale, sandy Sand, broken Shale, sandy Shale, sandy	Sand Coal , ban Sand, brok Shale & rok Sand, brok Red <b>rock</b> &	dy on d <del>ro</del> ck on shla		35 107 110 250 400 465	107 110 250 400 465 730	titr. (	<b>50°</b> ଇ	
Red rock & limo       1034       1088         Shale, dark       1098       1130         Lime, brn., Big Lime       1130       1195         Lime, sandy, broken       1195       1260         Sand, Limey       1304       1368         Red rock & shale       1304       1368         Sand       1304       1368         Bad rock & shale       1384       1424         Sand       1384       1424         Sand       1384       1460         Suale, sandy       1654       1670         Sand       1654       1670         Sand       2084       2101         Shale, sandy       2084       2101         Shale, very sandy       2160       2280	Sand Coal Shala, ban Shala, brok Shala, brok Sand, brok Rad rock & Sand, brok	dy on d rock on shle en		35 107 110 250 400 465 730 940	107 110 250 400 465 730 940-		<b>50°</b> ର	
Shale, dark       1038       1130         Lime, brn., Big Lime       1130       1195         Lime, sandy, broken       1195       1260         Sand, Limey       1306       1368         Red rock & shale       1306       1368         Sand       1384       1424         Sand       1384       1424         Sand       1384       1424         Sand       1384       1424         Sand       1364       1654         Sand       1460       1654         Sand       1654       1670         Sand       1775       2084         Sandy       2084       2101         Sandy       2160       2160	Sand Goal Shala, ban Shala, brok Shala & ra Sand, brok Red rock & Sand, brok Red rock &	dy on d rock shle en shalo		35 107 110 250 400 465 730 940 970	107 110 250 400 465 730 940 970 1004		<b>50°</b> 63	
Lime, brn. Big Lime Lime, brn. Big Lime Lime, sandy, broken Acd rock & shale Sand San	Sand Goal , Shala , Bar Sand, brok Sand, brok Red rock & Sand, brok Red rock & Sand & Lin	dy an d rock an shle shle shale a		35 107 110 250 400 465 730 940 940 970 1004	107 110 250 400 465 730 940 970 1004 1034		<b>50°</b> 63	
Lind, sandy, broken Sand, Lingy Red rock & shale Sand Sa	Sand Goal , Sand, Ban Sand, Brok Sand, Brok Sand, Brok Sand, Brok Sand & Lin Sand & Lin Sand & Lin Sand & Lin Sand & Lin	dy an d rock en shle shalo a lime		35 107 110 250 465 730 940 940 970 1004 1034	107 110 250 400 465 730 940 970 1004 1034 1088		<b>90°</b> 63	
Idd rock & shale       1304       1368       1368         Sand       1358       1384       1424         Idd rock & shale       1384       1424       1460         Sand       1424       1460       1654         Sand       1654       1654       1670         Sand       1654       1670       1775         Shale, sandy       1775       2084       2101         Sinale, vczy sandy       2160       2280       2160	Sand Coal , Sand, brok Sand, brok Shale & ro Sand, brok Red rock & Sand, brok Red rock & Sand & lin Red rock &	dy on d rock on shle on lino lino		35 107 110 250 400 465 730 940 970 1004 1034	107 110 250 400 465 730 940 970 1004 1034 1088 1130			
Idd rock & shale       1304       1368       1368         Sand       1358       1384       1424         Idd rock & shale       1384       1424       1460         Sand       1424       1460       1654         Sand       1654       1654       1670         Sand       1654       1670       1775         Shale, sandy       1775       2084       2101         Sinale, vczy sandy       2160       2280       2160	Sand Coal Shale, Bark Shale, Brok Shale & ro Sand, Brok Red rock & Sand, Brok Red rock & Sand & Lin Red rock & Shale, dar Lune, brok	dy on d rock shle shle a limo i b Big Li		35 107 110 250 400 465 730 940 970 1004 1034 1038 1130	107 110 250 400 465 730 940 970 1004 108 1088 1130 1195			
Sand Lad rock & shale Sand Sand Sand; broken Sand; br	Sand Coal , Shala, Ban Shala, Brok Sand, Brok Sand, Brok Sand, Brok Sand, Brok Sand & Ilo Sand & Ilo Sand & Ilo Shala, dar Lime, Sand	dy an d rock en Shale a Shale a it shale b Shale t y Shale t y Shake		35 107 110 250 465 730 940 970 1004 1034 1038 1130	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1			
Iad rock & shale       1384       1424       1460         Sand       1424       1460       1654         Sand       1460       1654       1654         Sand       1654       1670       1775         Shale       5004       1775       2084         Sandy       2084       2101         Shale       very sandy       2160       2280	Sand Coal , Shale , Band Shale & ra Sand, brok Sand, brok Sand, brok Sand & Lic Sand & Lic Sand & Lic Shale, dar Lime, Jorn, Lime, sand Sand, Lico	dy an d rock en shle shalo a limo t . Big Li y, broke		35 107 110 250 400 465 730 940 970 1004 1034 1038 1195 1260	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1 1304		STOLE 3	
Sunds, Boundy       1460       1654         Sand       1654       1670         Sands, broken       1670       1775         Shale, sandy       2084       2101         Sinale, very sandy       2160       2280	Sand Coal , Shale , band Shale & rok Sand, brok Sand, brok Sand, brok Sand & Lic Sand & Lic Sand & Lic Shale, dat Lime, sand Sand, Lic Sand, Lic Sand, Lic Sand, Sand	dy an d rock en shle shalo a limo t . Big Li y, broke		35 107 110 250 460 465 730 940 970 1004 1034 1038 1130 1195 1250 1304	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1 1304 1368			
Sunds, Boundy       1460       1654         Sand       1654       1670         Sands, broken       1670       1775         Shale, sandy       2084       2101         Sinale, very sandy       2160       2280	Sand Coal , Shale, ban Sand, brok Sand, brok Sand, brok Sand, brok Sand, brok Sand & lin Red rock & Sinic, dar Line, sand Sand, Ling Sand, Ling Sand, Ling Sand, Ling Sand, Ling Sand	dy an d rock en shle shalo a limo k blg Li y, broke y shale		35 107 110 250 460 465 730 940 970 1004 1034 1038 1130 1195 1260 1304 1358	107 110 250 400 465 730 970 1004 1034 1098 1130 1195 1260 1 1304 1368		5111723 601165 601165	
Sand; broken Shale, sandy Sand Simle & red rock, Shale, very sandy 1670 1775 2084 2101 2160 2260 2160	Sand Coal Shala, ban Sand, brok Sand, brok Red rock & Sand, brok Red rock & Sand & Ling Red rock & Shale, dan Ling, sand Sand, Ling Red rock & Sand Sand Sand Cock & Sand	dy on shle en shle a shale i Big Li y, broke y shale		35 107 110 250 465 730 940 970 1004 1034 1034 1038 1130 1195 1260 1304 1358 1358	107 110 250 400 465 730 940 970 1004 1034 1038 1130 1195 1260 1304 1368 1364 1426		5111723 601165 601165	
Sand; broken Shale, sandy Sand, Simle & red rock, Shale, very sandy	Sand Coal Shala, brok Shala & ra Shala & ra Sand, brok Red rock & Sand & lin Red rock & Shale, dar Line, sand Sand, ling Red rock & Sand Sand ( Sand ())))))))))))))))))))))))))))))))))))	dy on shle en shle a shale i Big Li y, broke y shale		35 107 110 250 400 465 730 940 970 1004 1034 1038 1130 1195 1260 1304 1358 1384 1384	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1 1304 -1368 -1364 -1368 -1364 -1368 -1364 -1368 -1364 -1424		5111723 601165 601165	
Shale, very sandy	Sand Coal Shale, brok Shale & ro Shale & ro Sand, brok Red rock & Sand, brok Red rock & Shale, bro Shale, bro Sand, lime Red rock & Sand Sand, lime Red rock & Sand Sand Sand	dy an d rock en shle i bhalo i bhalo y, broke y shale ahale dy		35 107 110 250 400 465 730 940 970 1094 1094 1098 1130 1195 1260 1304 1368 1384 1384 1424	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1 1304 -1368 -1364 -1368 -1364 -1368 -1364 -1368 -1364 -1424		STATISTICS OF ANTINATION	
Sin 16 6 red rock, Shale, very sandy	Sand Coal Shala Shala Shala Shala Shala Sand Red Took Coal Sand Sand Shala Shala Sand	dy an d rock en shle n shalo i shalo y, broke y shale dy		35 107 110 250 400 465 730 940 970 1004 1034 1038 1195 1260 1304 1358 1384 1426 1460 1654	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1304 1368 1384 1426 1460 1654 1654		STATISTICS OF ANTINATION	
Shale, very sandy	Sand Coal Shale, ban Sand, brok Sand, brok Red rock & Sand, brok Red rock & Sand & Line Red rock & Shale, dan Line, bro, Line, bro, Sand, Line Red rock & Sand, brok Sand, brok Sand, brok Sand, brok Sand, brok Sand, brok	dy an d rock en shle n shalo i shalo y, broke y shale dy		35 107 110 250 400 465 730 940 970 1004 1034 1038 1130 1195 1250 1304 1358 1384 1424 1424 1460 1654 1654	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1250 1304 1368 1384 1424 1460 1654 1654 1670 1775 2084		STATISTICS OF ANTINATION	
	Sand Coal Shala, ban Sand, brok Sand, brok Red rock & Sand, brok Red rock & Sand & link Red rock & Shale, dan Linc, sand Sand, link Red rock & Sand, link Red rock & Sand, brok Sand, sand Sand, sand Sand, brok Sand, sand Sand, sand Sand, brok Sand, sand Sand, sand	dy an shle en shle i shlo limo t shle y, broke y shale ahie dy		35 107 110 250 400 465 730 940 970 1004 1034 1038 1130 1195 1250 1304 1358 1358 1358 1384 1424 1670 1670	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1250 1 1304 1368 1384 1424 1460 1654 1670 1775 2084 2101		STATISTICS OF ANTINATION	
An in the second s	Sand Coal Shala, ban Sand, brok Shala & ra Sand, brok Red rock & Sand, brok Red rock & Sand & Ling Red rock & Shale, dan Shale, san Shale, san	dy an shle in shle in shale in shale shale dy dy dy dy		35 107 110 250 400 465 730 940 970 1004 1034 1038 1130 1195 1260 1304 1305 1305 1368 1384 1384 1424 1460 1654 1670 1775 2084	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1304 1368 1384 1368 1384 1424 1460 1654 1670 1775 2084 2101 2160		STATISTICS OF ANTINATION	
	Sand Sand, brok Sand, brok Sand, brok Sand, brok Red rock & Sand, brok Red rock & Sand & Ling Red rock & Shale, dan Shale, can Shale, can	dy on shle en shle a limo i b nig limo i shale y shale dy dy dy dy dy dy dy dy dy dy dy dy dy		35 107 110 250 400 465 730 940 970 1094 1034 1034 1034 1038 1130 1195 1260 1304 1304 1358 1384 1424 1460 1654 1654 1670 1775 2084 2101 2160	107 110 250 400 465 730 940 970 1004 1034 1088 1130 1195 1260 1304 1368 1384 1424 1460 1654 1670 1775 2084 2101 2160 2280		STATISTICS OF ANTINATION	

Vergassi / - florder Core ..... 

(aver) infras 1. . 14

J.c.

1.2/10/2021

# 4709100080P,

Formation	Color	Hard orl. Seft	Top   4	Boltem	OU, Gas er Water	Depth Formi	Remarks .
Said ha							<u></u>
Sand, br.		A 17.1	3845 3855	3855			
Saud, bri	. fine		3891-	3903			
Shele, a	ndu		3903	4085		]	
Sand. brz	Li fine.	bim	4086	4130			
Sandy she	le G she	ley. sand	4130	4422			
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12/10/2024

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WW-4A	
Revised	6-07

1) Date: November 5, 2021

2) Operator's Well Number

3) API Well No.: 47 - 91 - 00080

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL</u>

4)	Surface Owne	er(s) to be served:	5) (a) Coal Operator	
(	(a) Name	James E. Gragg	Name	CoalQuest Development, LLC
1	Address	74 Barthelemy Road	Address	100 Tygart Drive
		Thornton, West Virginia 26440		Grafton, West Virginia 26354
(	(b) Name		(b) Coal Own	ner(s) with Declaration
1	Address		Name	
			Address	
(	(c) Name		Name	
1	Address		Address	
6) Ir	nspector	Bryan Harris	(c) Coal Less	ee with Declaration
A	ddress	P.O. Box 157	Name	
		Volga, WV 26238	Address	
Т	elephone	(304) 553-6087		

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

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

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

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

Well Operato		L)
By:	Charles E. Duckworth	VIU
Its:	Designated Agent	
Address	100 Tygart Drive	RECEIVED Gas
	Grafton, West Virginia 26354	Office of Oil and Ca
Telephone	(304) 265-9704	0 2021
	<b>D</b>	NOV a comment of
	day of November 2021 OFFICIAL SEAL NOTARY PUBLIC, STATE OF WEST VINCINIA Tho Nosary, Ruublic	WV Department of Environmental Protection
My Commission Expires December 22, 2024	329 Webster Avenue	
Oil and Gas Privacy Notice	Morganizwo, WV 26501 My Commission Expires December 22, 2024	

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 <u>depprivacyoffier@wv.gov</u>.



**Operator's Well** Number

1

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

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

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

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

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

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

The Chief has the power to deny or condition a well work permit based on comments on the power of Oil and the set of Oil and th 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:

Date

 3) Damage would occur to publicly owned lands or resources;
 4) The proposed well work fails to protect fresh water sources or supplies;
 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

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

### **VOLUNTARY STATEMENT OF NO OBJECTION**

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

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. FOR EXECUTION BY A NATURAL PERSON FOR EXECUTION BY A CORPORATION. ETC.

Signature

Name

By Its

Signature



Date

NOV 30 2021



A Subsidiary of



## ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

November 10, 2021

ş

James E. Gragg 74 Barthelemy Road Thornton, West Virginia 26440

Re: Plugging Permit - API # 47-091-00080 - Well No. 1

Dear Mr. Gragg:

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 ICG Tygart Valley, 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 <u>gnair@archrsc.com</u>.

Sincerely

Greg Nair<sup>1</sup> Manager Surface Mine Planning

Enclosures

RECEIVED Office of Oil and Gas NOV 3 0 2021 WV Department of Environmental Protection

CERTIFIED MAIL NO. 7021 0350 0000 1726 9760 RETURN RECEIPT REQUESTED

9760	U.S. Postal Service <sup>™</sup> CERTIFIED MAIL <sup>®</sup> RECE Domestic Mail Only	
Г	For delivery information, visit our website a	t www.usps.com".
1726	OFFICIAL Certified Mail Fee	USE
гч	\$3.11	
0000	Extra Services & Fees (check box, add fee as appropriate) Atteum Receipt (hardcopy) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required	Postmark Here
035D	Adult Signature Restricted Delivery \$	_ 9
7021 C	Sent To James E. Gragg	1
	Street and Apt. x 74 Barthelemy Drive	-
	City, State, 2194. Thornton, West Virgi	nia 26440
	PS Form 3800,	11-091-00080

	2 interes	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON L	DELIVERY
<ul> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailplece, or on the front if space permits.</li> </ul>	A. Signature X B. Received by (Printed Name)	C. Date of Delivery
1. Article Addressed to:	D. Is delivery address different from If YES, enter delivery address b	
James E. Gragg		
74 Barthelemy Drive		
Thornton, West Virginia 26440		
	29-Adult Signature	Priority Mail Express® Registered Mail™
9590 9402 6516 0346 9526 70	Gertified Mali@	□ Registered Mall Restricted Delivery □ Signature Confirmation™ □ Signature Confirmation
2 Article Number (Transfer from service label) 7021 0350 0000 1726 978	Collect on Delivery Restricted Delivery	Restricted Delivery
PS Form 3811, July 2020 PSN 7530-02-000-9053	Do	mestic Return Receipt

1

Domestic Return Receipt

API No.	47-091-00080	а а
Farm Name	Bush Heirs	
Well No.	1	

### INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

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

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

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

### WAIVER

The undersigned coal operator  $X_{\rm owner}_{\rm owner}_{\rm$ 

Date:	н	10	2021	

CoalQuest Development, LLC	
By: Greg Nair Aug	
Its Power of Attorney	FIVED 200
	RECEIVED Office of Oil and Gas
	NOV 3 0 2021
	WV Department of Environmental Protection

WW-4B

#### POWER OF ATTORNEY

### COALQUEST DEVELOPMENT LLC TO GREG NAIR

#### Dated: January 1, 2021

### Expires: December 31, 2021

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 Vice President, 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, 2021, 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 Vice President of the Company.

#### COALQUEST DEVELOPMENT LLC

RECEIVED Office of Oil Prod Gas

Rosemary L. Klein Vice President NOV 30 2021 WV Department of Environmental Protection

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

On this 21 day of December, 2020, 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 he executed the same for the purposes therein contained.

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

Dual Subold Notary Public

My Commission Expires: 11/8/2024



12/10/2021

WW-9	A PI Number 47 _ 091 _ 00080
(5/16)	API Number 47 - <u>091</u> - <u>00080</u> Operator's Well No. <u>1</u>
STATE OF WEST VIRG DEPARTMENT OF ENVIRONMENT OFFICE OF OIL AND FLUIDS/ CUTTINGS DISPOSAL & REC	AL PROTECTION GAS
Operator Name ICG Tygart Valley, LLC	OP Code
Watershed (HUC 10) Siggens Run Quadran	gleThornton (638)
Do you anticipate using more than 5,000 bbls of water to complete the propose Will a pit be used? Yes No V If so, please describe anticipated pit waste: N/A Will a synthetic liner be used in the pit? Yes No V	
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposa Other (Explain Tanks - See attached letter	)
Will closed loop system be used? If so, describe: Yes, Gel circulated from tan	k thru well bore ad returned to tank.
Drilling medium anticipated for this well (vertical and horizontal)? Air, fresh	water, oil based, etc. freshwater

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

Additives to be used in drilling medium? Bentonite, Bicarbonate or Soda

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

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

-Landfill or offsite name/permit number? ICG Tygart Valley, LLC - Permit No. O-2017-06

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

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

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

Company Official Signature	Office of O. 2021
Company Official (Typed Name) Charles E. Duckworth	NUV a ment of
Company Official Title Designated Agent	WV Department OT Environmental Protection

Subscribed and sworr before me this 10	day of Nevember OFFICIAL Stat. , 20-24
Thomas Duryon -	NOTARY PUBLIC, STATE OF WEST VIRGINIA Thomas Gregory Net ary Public
My commission expires 12/22/2024	329 Webster Avanue Morganiown, WV 26501 My Commission Explore December 22, 2024

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### ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

November 5, 2021

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, ICG Tygart Valley, 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), ICG Tygart Valley, LLC, will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities O-2017-06 or to an approved facility that can handle the material.

Sincerel

Charles E. Duckworth Designated Agent

Form	W	W	-9
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Operator's Well No. 1

Proposed Revegetation Treatment: A cres Disturbed 1.50 / 2.0		/ 2.0 Preveg etation pH	[	
Lime 3	Tons/acre or to correct to	рН 6.5		
Fertilizer type 10-20	0-20 or equivalent			
Fertilizer amount 500	_lbs/acre			
Mulch Hay Bales Tons/acre				
		Seed Mixtures		
Tem	porar y	Perma	ient	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Orchard Grass	12	<b>Orchard Grass</b>	12	
Landino Clover	3	Landino Clover	3	
Timothy	10	Timothy	10	

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:	Bryan Harri	a			·····
Comments:					
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Title: Inspec	tor		Date: <u>11/29/2</u>	21	
Field Reviewed?	() Yes	( <u> </u>	) No		



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WW-7 8-30-06			
West Vir	ginia Department of Office of O	of Environmenta Dil and Gas	l Protection
	WELL LOCATI	ON FORM: GPS	
API:	80	WELL NO.:_	
FARM NAME:	Bush Heirs		
RESPONSIBLE	PARTY NAME:	gart Valley, LLC	
COUNTY: Tay	PARTY NAME: CG Ty	DISTRICT: Fett	erman
QUADRANGLE	E:		
SURFACE OW	NER:		
ROYALTY OW	NER:		
UTM GPS NOR	THING:		
	ГING:		ION: 1240.11'
preparing a new v above well. The 0 the following req 1. Datum height 2. Accur 3. Data 0	h: NAD 1983, Zone: 17 Nor above mean sea level (MS) acy to Datum – 3.05 meters Collection Method: GPS <u>×</u> : Post Processed	ging permit or assigned a ot accept GPS coordinat th, Coordinate Units: mo L) – meters. Differential	API number on the es that do not meet
	Real-Time Diff	erential	NOV 3 0 2 10
Mapping Grad	de GPS: Post Process	ed Differential	WV Department of Environmental Protection
		Differential	
I the undersigned belief and shows	size copy of the topograp , hereby certify this data is of all the information required Office of Oil and Gas.	correct to the best of my	knowledge and
Aug/	Power	of Attorney	November 5, 2021
Signature )		Title	Date

7

12/10/2021

### <u>POWER OF ATTORNEY</u> ICG TYGART VALLEY, LLC TO GREG NAIR

### Dated: January 1, 2021 Expires: December 31, 2021

KNOW ALL MEN BY THESE PRESENTS: That ICG Tygart Valley, 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 Vice President, 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 specified above, and subject to the restrictions and limitations set forth in this Power of Attorney to execute and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Resources, Inc. or any subsidiary thereof, or until December 31, 2021, 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 Vice President of the Company.

ICG TYGART VALLEY, LLC

By:

Rosemary L. Klein Vice President

RECEIVED Office of Cil and Gas NOV 30 2021 WV Department of Environmental Protection

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

On this 2L day of December, 2020, 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 he executed the same for the purposes therein contained.

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

Notary Public 2024 My Commission Expires: SARAH TRIBOUT Notary Public, Notary Seal State of Missouri Franklin County Commission # 03385705 Commission Expires 11-08-2024

RECEIVED Office of Cill and Gas NOV 3 0 2021 W Depailment of Environmental Protection

12/10/2021



Stansberry, Wade A <wade.a.stansberry@wv.gov>

### Plugging Well Work Permit (API: 47-091-00080)

1 message

#### Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Dec 6, 2021 at 11:21 AM To: Charles Duckworth <cduckworth@archcoal.com>, "Duckworth, Charles" <cduckworth@archrsc.com>, "Harris, Bryan O" <bryan.o.harris@wv.gov>, C Kinsey <ckinsey@wvassessor.com>

I have attached a copy of the newly issued well permit numbers:

#### 47-091-00080 - 1

This will serve as your copy.

Thank you,

Wade A. Stansberry

**Environmental Resource Specialist 3** 

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

IR-8 Blank.pdf 74 183K

47-091-00080 - Copy.pdf 74 5948K