

#### 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

Thursday, February 16, 2023 WELL WORK PLUGGING PERMIT Vertical Plugging

ICG TYGART VALLEY, LLC 100 TYGART DR

GRAFTON, WV 26354

Re:

Permit approval for 12551 47-091-00169-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number:

Farm Name: MANEAR, CARL E.

U.S. WELL NUMBER: 47-091-00169-00-00

Vertical Plugging Date Issued: 2/16/2023

Promoting a healthy environment.

### PERMIT CONDITIONS 47

4709100169

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

#### **CONDITIONS**

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

WW-4B Rev. 2/01

1) Date January 23		, 20 <b>23</b>
2) Operator's		
Well No. 12551		
3) API Well No.	47 91	- 00169

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

OFFICE OF OIL AND GAS						
	RMIT TO PLUG AND ABANDON					
4) Well Type: Oil/ Gas/ Liqu	4) Well Type: Oil/ Gas/ Liquid injection/ Waste disposal/					
(If "Gas, Production or Un	nderground storage) Deep/ ShallowX					
5) Location: Elevation 1645'	Three Fork Creek					
District Knottsville	Watershed Three Fork Creek County Taylor Ouadrangle Thornton (638)					
	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					
0) 011 1 -						
<ol> <li>Oil and Gas Inspector to be notified Name Sam Ward</li> </ol>						
Address P.O. Box 2027	Name Coastal Drilling East, LLC					
Buckhannon, WV 26201	Address 130 Meadows Ridge Road					
2010/10/10/10/10/10/10/10/10/10/10/10/10/	Mt. Morris, PA 15349					
ICG Tygart Valley, LLC (47-091-01089)  Leer Mine (MSHA !D# 46-09192  MSHA 101-C Docket No. M-2012-065-C	RECEIVED Office of Oil and Gas					
2000 0	JAN 27 2023					
Appropriate coal seam top = 758.30'	WV Department of Environmental Protection					
Approximate coal seam bottom = 762.	70'					
702.	70					
Notification must be given to the district oi work can commence.	l and gas inspector 24 hours before permitted					
Work order approved by inspector Samuel D. Ward	Digitally signed by Samuel D. Word					

#### 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".

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WV Department >
Environmental Protection





#### 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

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- Move to site, rig up, mix mud, drill rathole
- Clean out wellbore through the first cement plug, to a point at deast 100 dectrons below sea level. We may need to cleanout deeper, tagging the top of the next
- 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 assing size bettern of assing death of seal.
- 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.

Operator stated that they have Class A cement to use. A waiver will not be submitted on this permit.

Samuel D. Digital D. Ward II

Digitally signed by Samuel D. Ward II Date: 2023.01.26 12:53:59 -05'00'

face area will be available. The five bose will be located near the working face.

(3) Sufficient supplies of roof support and ventilation 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 well

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 suining 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 feet 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 orea 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

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

(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 operation, company personnel, personnel from MSHA, and personnel 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 balt the mining through operation when necessary for the safety of the miners. (14) Within 30 days after this Order

becomes final, the patitioner will submit

proposed revisions for its approved mino omergency avacuation and Grefighting 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 (ongwall) 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

Mine: Mine No. 1, MSHA LD. No. 15-18734, Route \$36 Benedict Road, St. Charles, Virginia 24282, located in Haylan County, Kentucky. Regulation Affected: 30 CFR 75.208

(Warning devices).

Madification Request: The 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 outby unsupported roof or a physical barrier to be installed to impede travel beyond permanent support, except during the installation of roof supports. The pelitioner 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 roat bolts outby

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

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

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

Dacket Number: M-2012-055-C Petitioner: ICG Tygart Valley, LLC, 1200 Tygart Drive, Grafton, West Virginia 26354.

Mine: Tygart #1 Mine, MSHA LD. No. 46-09192, located in Taylor County. West Virginia.

Regulation Affected: 30 CFR 75.1700 (Oil and gas wells).

l'adification dequest: The patulones equests a modification of the existing standard requiring that barriers be lio bruore baniatriain bank bestate<mark>s.</mark> <mark>o</mark>nd 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.
(2) The active development section is approaching these boreholes, and is projected to encounter additional boreholes in the future as mining aperations confinue.

(3) The procedure presented in this patition will be used to ensure that mining through these boreliales is accomplished safely and, as an alternative 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 getitioner proposes to use the following procedures when plugging oil or gas wells:

(1) Prior to plugging an oil or gas well, 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 bat would permit the placement of at least 200 feet of expanding cement 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 bo perforated or ripped at intervals spaced close enough to permit expanding coment slurry to infiltrate the annulus between the casing and the bordhole wall for a distance of at least 200 feet below the base of the lowest minable

(3) If the cleaned-out borehole produces gas, a mechanical bridge plug will be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest minable coal bed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in its place. 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 scam(s). Such approval will be documented in a written response to the operators' submittal of a detailed explanation of the methods be used

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(4) A suite of logs will be made, consisting of a colliper 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 uppermost 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 cement plug. Nevertheless, a minimum of 200 eet of expanding coment will be placed below the lowest minable coal bed.

(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 incresses the density of the expanding cement. This gel will be pumped through open-end lubing run to a point approximately 20 test above the bottom of the cleaned out area of the borehole or bridge plug. Tho petitioner proposes to use the

following procedures when plugging gas and oil wells to the surface:

(1) A cement plug will be set in the wellbore by pumping expending coment slurry down the tubing to displace the gel and fill the botehole 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 nuthority will be installed at the borehole, or a small quantity of steel turnings or other small magnetic particles will be embadded in the top of lie cement near the surface. The method used will be suitable to serve as a permanent magnetic monument of the borohole.

The following procedures will be used for the vant pipe mediad for

olugging oil and gas wells: (1) A 4½-inch or larger pipe will be on into the wellbore to a depth of 100 test below the lowest minable coal bed and wedged to a smaller diameter pipe that, if desired, will extend to a point upproximately 20 feet above the bottom of the cleaned-out area of the borehole or bridge plug.

(2) A cerrient plug will be set in the vellbore by pumping expanding cement siurry, Portland cement, or a Portland cement-ily ash mixture down the tubing to displace the gel so that the borehole is filled with coment. The borehole and

the venty lun will be filled with expanding cement for a minimum of 200 fact below the base of the lowest minable coal bed. The top of the expanding cement will extend upward to a point approximately 100 feet above the top of the lowest minable coal hed.

(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 wellbore, 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;

(1) A centent plug will be set in the wellbore by pumping expanding cament slurry down the fubing to displace the gel and provide at least 200 feet of expanding cement below the lowest minable coal hed. The top of the expanding coment will extend upward to a point above the top of the coal bed being mined. This distance will be based on the average height of the roof strata breakage for the mine. (2) To facilitate mothane 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 to to 30 feet above the top of the expanding

(a) The annulus between the degasification casing and the borshole wall will be cemented 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 potitioner 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 nteasures are agreed upon and based upon a plan submitted to the District Manager:

(1) The pelitioner will drill a hole adjacent and parallel to the well to a

depth of actend 100 feet below the lowest minable coal seem.

(2) The petitioner will use a geoghysical sensing device to locate any

casing that may remain in the well.
(3) If the well contains casing(s), the petitioner will drill into the well from the parallel bale. From 10 feet below the coal seam to 10 feet above the coal seam, the petitioner will perforate or cip 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 petitioner will fill the annulus between the casing, and between the casings and the well wall with expanding coment (rainimum 0.5 perceut 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 easing that remains will 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 petitioner determines and the District Manager agrees that there is insufficient casing in the well to allow 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 foot balow the base of the lowest minable coal seam to a point at least 50 feet above the soam being mined, the petitioner will fracture at least six places at intervals to be agreed upon by the politioner and the District Manager after considering the geological strata and the pressure within the well. The petitioner will then pump expanding cement into the fractired well in sufficient quantities and in a monner that fills all intercepted voids.

(3) The petitioner will prepare down-hole 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 meetve impractical to in The sayipment

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necessary to obtain the log. The District Manager may approve the ase of a dorva-hole cameral survey in liant of down-holo legs if, in his or her judgment, such legs 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 longth of casing(s) removed, perforated, or ripped or left in place; and office perlinent information

concerning sealing the well.

[6] After the politioner has plugged the well, the petitioner will plug the open portions of both holes from the bottom to the surface with Portland. centent or a lightweight cement mixture. The petitioner will 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-fact or larger casing set in cement 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 out-through procedures whenever the safety barrier diameter is reduced to a distance less than the District Manager would approve pursuant to \$75.1700 or the petitioner proceeds with an intent to cut through

a plugged well:

(1) Prior to reducing the safety barrier to a distance less than the District Manager would approve or proceeding with intent to cut through a plugged well, 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 representative of the miners, 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 last 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 woll. When using longwall mining methods, drivage sights will be installed on 10-foot centers for a distance of 50 feet to advance of the well voce. The delvage sights will be installed in the headgate and tailgate.

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

(6) Sufficient supplies of tool support and ventilation materials will be available and located at the last open crosscut, in addition, an emergency 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 fest per minute (clim) 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 quantily of air required by the ventilation plan, out not less than 30,000 cfm, will reach the working face of each longwall during the miningthrough oneration.

(8) Equipment will be checked for permissibility and serviced on the shift prior to mining-through the welf. 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 detector 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 side 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 2D 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, rib. and door up to both

headgete and milgste gab.
[11] When the wellbore is intersected. all equipment will be deenergized 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 wellbora.

(13) No person will be permitted in the area of the mining-through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSFIA, and personnel from the

appropriate State agency.
(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 nacessary for the safety of the miners. (15) The pelitioner will file a plugging

afficiavit setting forth the persons who perticipated in the work, a description of the phigging work, and a certification by the petitioner that the well has been

plugged as described.

(16) Within 80 days after the Proposed
Decision and Order (PDO) becomes final, the petitioner will submit proposed revisions for its approved 30 CFI? Part 48 training plen to the District Manager. The provisions will include initial and refresher training regarding compliance with the terms and conditions stated in the PDD.

The petitioner asserts that the proposed alternative method will at all times guarantee miners no less than the sume measure of protection as afforded by the existing standard.

Docket Number: M-2012-002-M. Patitioner: Heela Greens Creek Mining Company, P.O. Box 32190, Juneau, Alaska 99803.

Mine: Greens Greek Mine, MSHA LD. No. 50-01267, located in Juneau County, Alaska.

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

Modification Request: The pelitioner requests a modification of the existing standard to permit employees to be transported 1,500 feet to and from the surface dry facility to work sites underground using underground mine

RECE Office of

02/17/2023

WR-35 Rev (8-10)

Farm name:

DATE: 7/20/2012 API #: 4709101257

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

#### Well Operator's Report of Well Work

HOVATTER, BEATRICE Operator Well No.:

LOCATIO	N: Elevation	:	1440'	_Quadran	gle:		THORNTON	
	District:	KNO	TTSVILLE	County:			TAYLOR	
	Latitude:	4,190	Feet South of	39	Deg	. 20 Min.		
	Longitude:	7,400	Feet West of	79	Deg.		The state of the s	
Company:	: Texas Keysto	ne. Inc.						
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Agent:	Jon Farmer	1 13230		12.27	61)	40	<del></del>	<del>   </del>
	Bryan Harris			13 3/	8.,	40	40	Sanded In
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PACE WEIL	Work Comme	ncea: U3/2	9/12	<u> </u>				
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	X Cable	Rig					B5(	NEWED
otal Vert	ical Depth (ft.)	: 5760						f CII & Gas
otal Men	sured Depth(ft	.): 5760		<u> </u>			CHIPS -	,
resh Wat	er Depth (ft.):	270	_	<u> </u>			14.44	9.2.2012
	Depth (ft.):	535, 580					JUL	29 (017
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oal Depti		320					14/7 176	year or all of
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		) Debitte).					Environire:	PINT LICEDON
	Static rock Pre Second Produc Gas: Initial ope Final open flov	ssure:	Co-mingled Co-mingled			Hours psig(surface pre Pay zone Depth MCF/D Oil: 1 MCF/D Oil: F	(ft) 4	
	Time of open f	low between	initial and final tes	ts:		Hours		
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cument a	nd all the attac	chments and	ve personally exame that, based on me information is to Signature.	y inquiry ue, accura	of th	ose individuals	information substituted in immediately in the immed	bmitted on this responsible for
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								VV Logarana. ronmental Projo

SDW 1/26/23

Were core samples taken?	Yes No_X	Were cuttings caught during drilling?	Yes	No_X
Were N Electrical,	N Mechanical,	Y/N or Geophysical logs recorded on	this well?	
NOTE: IN THE AREA BE	LOW PUT THE FO	LLOWING: 1). DETAILS OF PERFO	RATED INT	ERVALS,
FRACTURING OR STIM	ULATING, PHYSIC	CAL CHANGE, ETC. 2). THE WELL L	OG WHICH	IS A
		ECORD OF THE TOPS AND BOTTO		
FORMATIONS, INCLUD	ING COAL ENCOU	INTERED BY THE WELLBORE PRO	M SURFACI	LATOT OT A
Perforated Intervals, Fractur	ing, or Stimulating:			
Perfed 3rd Elk 5042' - 5060'	(30 shots). BD 4081 i	#. 250 sks 40/70 & 109 sks 20/40. 757 bb	l. Gel Frac.	
Perfed 1st Elk 4771' - 4779"	(18 shots). BD 2800 #	. 100 sks 40/70 & 84 sks 20/40, 515 bbl.	Gel Frac.	
Perfed Alexander 4336' - 43	41' (20 shots). BD 366	57 #. 100 sks 40/70 & 88 sks 20/40. 485 b	bl. Gel Frac.	
Perfed Balltown B 2950' - 25	959' (21 shots). BD 34	75 #. 100 sks 40/70 & 110 sks 20/40. 46	bbl. Gel Fra	c.
Perfed Speechley A 2353' - 2	2368' (22 shots), BD 3	667 #. 100 sks 40/70 & 110 sks 20/40. 4	78 bbl Gel Fr	BC

Formations Encountered:	Top Depth	Bottom Depth	Notes:
PiLL			
SHALE	0	10	
SANDY SHALE	10	30	
	30	45	
SHALE	45	70	
SAND	70	110	
SHALE	110	160	
SANDY SHALE	160	320	1/2° FW @ 270
COAL	320	330	
SANDY SHALE	330	365	
SAND	365	500	
SANDY SHALE	500	785	3. 2M @ 232, 1. 2M @ 2M.
RED ROCK	785	835	
SANDY SHALE	835	985	
SAND	985	1058	
LITTLE LIME	1058	1074	
PENCIL CAVE SHALE	1074	1098	
BIQ LIME	1098	1384	
WEIR SANDSTONE	1384	1432	
SHALE	1432	1534	
BEREA SANDSTONE	1534	1550	
UPPER GANTZ SANDSTONE	1550	1580	
GANTZ SANDSTONE.	1580	162!	
LOWER GANTZ SANDSTONE	1621	1647	
SANDY SHALE	1647	2287	
BAYARD SANDSTONE	2287	2349	
SPEECHLEY A SANDSTONE	2349	2373	
Sandy Shale	2373	2420	
SPEECHLEY B SANDSTONE	2420	2838	
BALLTOWN A SANDSTONE	2#38	2949	
BALLTOWN B SANDSTONE	2949	3106	
BALLTOWN C SANDSTONE	3106	3111	
SANDY SHALE	3111	4112	RECEIVED
BENSON SILTSTONE	4112	4144	Office of Chand Con
SANDY SHALE	4144	4319	Office (it and the
ALEXANDER	4319	4376	1811 0 5 000
SHALE	4375	4506	JAN 2 7 2022
ST ELK SILTSTONE	4506	4572	
SANDY SHALE	4572	4731	
ND ELK SILTSTONE	4731	4800	$WV  L_{Q_{P} \times const(e_{P})}$
sandy shale	4800	5019	Environmental Protection
RD ELK SILTSTONE	5019	5091	
ANDY SHALE	1008	5365	
TH ELK SILTSTONE	5365	5400	
HALE	5400	5760	TD

SDW 1/26/23

WW-4A Revised 6-07

1) Date: January 23, 2023
2) Operator's Well Number
12551

3) API Well No.: 47 -

1 - 00169

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

		ner(s) to be served:		) (a) Coal Operator		
	a) Name	Edward and Lola Caldwe	ell	Name	CoalQuest Development, LLC	3
F	Address	32 Huckleberry Lane		Address	100 Tygart Drive	
		Morgantown, West Virgir	nia 26508		Grafton, West Virginia 26354	
	b) Name			(b) Coal Ow	ner(s) with Declaration	n
A	Address			Name	Caroline Menear - c/o Dale A	llen Milburn
				Address	102 Daunshine Court	
					Summersville, South Carolina	29485
(	c) Name			Name		
A	ddress			Address	F1	
6) In	spector	Sam Ward		— (a) Cool Loo	see with Declaration	-1150
	ddress	P.O. Box 2327		100	see with Declaration	RECEIVED
11	duress	Buckhannon, WV 26201		Name		Office of Oil and Gas
T	elephone	(304) 389-7583		Address		7 2023
10	erephone	(504) 505-7505				JAN Z . Z
	The reason y However, you Take notice t accompanyin Protection, w the Applicati	that under Chapter 22-6 of g documents for a permit to with respect to the well at the	nts is that you have riny action at all.  the West Virginia Coop plug and abandon a lie location described on mailed by registered	ghts regarding the applicated, the undersigned well of well with the Chief of the on the attached Application of or certified mail or delivers.	perator proposes to file or has fi Office of Oil and Gas, West Vi	the instructions on the reverses side.  Iled this Notice and Application and reginia Department of Environmental Form WW-6. Copies of this Notice, named above (or by publication in
			Well Operator By: Its: Address	ICG Tygart Valley, LLC Charles E. Duckworth Designated Agent 100 Tygart Drive Grafton, West Virginia 2 (304) 265-9704	6354	
My C	ribell and some commission F	Expires December 22,	-	ay of January, 2023	Natary Public	OFFICIAL SEAL  RY PUBLIC, STATE OF WEST VIRGINIA Thomas Gregory Nair 329 Webster Avenue Morganlown, WV 26501

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>.

**VDCH** 

#### ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

January 24, 2023

Edward and Lola Caldwell 32 Huckleberry Lane Morgantown, West Virginia 26508

Re: Plugging Permit – API # 47-091-00169 – Well No. 12551

Dear Mr. & Mrs. Caldwell:

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 <a href="mailto:gnair@archrsc.com">gnair@archrsc.com</a>.

Sincerely,

Greg Nair

Manager Surface Mine Planning

Enclosures

RECEIVED

JAN 27 2022

WV Dapartition (

CERTIFIED MAIL NO. 7021 1970 0000 0908 4093 RETURN RECEIPT REQUESTED



RECEIVED
Office of Oil and Gas

JAN 27 2023

WV Department of Environmental Protection

### 4709100169

API No.	47-091-00169	
Farm Name	Carl E. Manear	
Well No.	12551	

#### 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.

v	VAIVER				
has examined this proposed plugging work order. T	er/ 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: 1 23 2023	CoalQuest Development, LLC				
By: Greg Nair					
	Its Power of Attorney				
	RECEIVED				

Office of Oil and Gas

JAN 27 2023

WV Department of Environmental Protection

#### 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

y:\_\_\_\_\_

Rosemary L. Klein

Secretary

RECEI∵ Office of □

JAN 97

WV to a

Environment

02/17/2023

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\_\_\_\_

RECEIVEL:
Office of Oil and Gas

JAN 27 2023

WV Department or Environmental Protection WW-9 (5/16)

API Number	47 -	091	_00169	
Operator's W	ell No	. 12551		

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

Thomas Collinos Distos	AL & RECEANATION TEAN
Operator Name_ICG Tygart Valley, LLC	OP Code
Watershed (HUC 10) Three Fork Creek	Quadrangle Thornton (638)
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes No	e the proposed well work? Yes No V
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a Underground Injection (UIC Permit N Reuse (at API Number Off Site Disposal (Supply form WW-9 Other (Explain Tanks - See attached lett	umber)  for disposal location)
Will closed loop systembe used? If so, describe: Yes, Gel circular Drilling medium anticipated for this well (vertical and horizontal)?	
-If oil based, what type? Synthetic, petroleum, etc.	RECEIVED
Additives to be used in drilling medium? Bentonite, Bicarbonate or S	Office of Oil and O
Drill cuttings disposal method? Leave in pit, landfill, removed off	1/M 0 17 000
-If left in pit and plan to solidify what medium will be used -Landfill or offsite name/permit number? ICG Tygart Valley  Permittee shall provide written notice to the Office of Oil and Cas West Virginia solid waste facility. The notice shall be provided with	of any load of drill cuttings or associated waste rejected at any
on April 1, 2016, by the Office of Oil and Gas of the West Virgini provisions of the permit are enforceable by law. Violations of any or regulation can lead to enforcement action.	amined and am familiar with the information submitted on this inquiry of those individuals immediately responsible for obtaining complete.
Subscribed and sworn before me this day of Januar day of J	NOTARY PUBLIC, STATE OF WEST VIRGINIA  Not and the property of

Operator's Well No. 12551

Lime 3	Tons/acre or to correc	t to nH 6.5	
Fertilizer type 10-20			
Fertilizer amount 50		lbs/acre	
Mulch_ Hay Bales		Tons/acre	
-		-	
Tr		Seed Mixtures	
	porary	Perm	
Seed Type Orchard Grass	lbs/acre	Seed Type	lbs/acre
· · · · · · · · · · · · · · · · · · ·	12	Orchard Grass	12
Landino Clover	3	Landino Clover	3
Timothy	10	Timothy	10
Attach: Maps(s) of road, location, pit a provided). If water from the pi L, W), and area in acres, of th Photocopied section of involve	t will be land applied, prove e land application area.	application (unless engineered plans incluvide water volume, include dimensions (L	ding this info have been, W, D) of the pit, and dir
Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve	t will be land applied, prove land application area.  ed 7.5' topographic sheet.	application (unless engineered plans incluvide water volume, include dimensions (L	ding this info have been, W, D) of the pit, and dir
Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve Plan Approved by:	t will be land applied, prove land application area.  ed 7.5' topographic sheet.	application (unless engineered plans incluvide water volume, include dimensions (L	ding this info have been, W, D) of the pit, and dir
Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve Plan Approved by:  Samuel D. V	t will be land applied, prove land application area.  ed 7.5' topographic sheet.	vide water volume, include dimensions (L	ding this info have been, W, D) of the pit, and dir
Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve Plan Approved by:  Samuel D. V	t will be land applied, prove land application area.  ed 7.5' topographic sheet.  Vard II Vard II Wast II Date: 2023.01.26 12:55 12-0500	vide water volume, include dimensions (L	, W, D) of the pit, and di
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Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve Plan Approved by:  Samuel D. V	t will be land applied, prove land application area.  ed 7.5' topographic sheet.  Vard II Vard II Wast II Date: 2023.01.26 12:55 12-0500	vide water volume, include dimensions (L	RECEIVE:
Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve Plan Approved by:  Samuel D. V	t will be land applied, prove land application area.  ed 7.5' topographic sheet.  Vard II Vard II Wast II Date: 2023.01.26 12:55 12-0500	vide water volume, include dimensions (L	, W, D) of the pit, and dir
Maps(s) of road, location, pit a provided). If water from the pit L, W), and area in acres, of the Photocopied section of involve Plan Approved by:  Samuel D. V	t will be land applied, prove land application area.  ed 7.5' topographic sheet.  Vard II Vard II Wast II Date: 2023.01.26 12:55 12-0500	vide water volume, include dimensions (L	RECEIVE: Office of Oil a  JAN 27 20:  WV Department



#### ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

January 23, 2023

WV Department of Environmental Protection Office of Oil and Gas 601 - 57th 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.

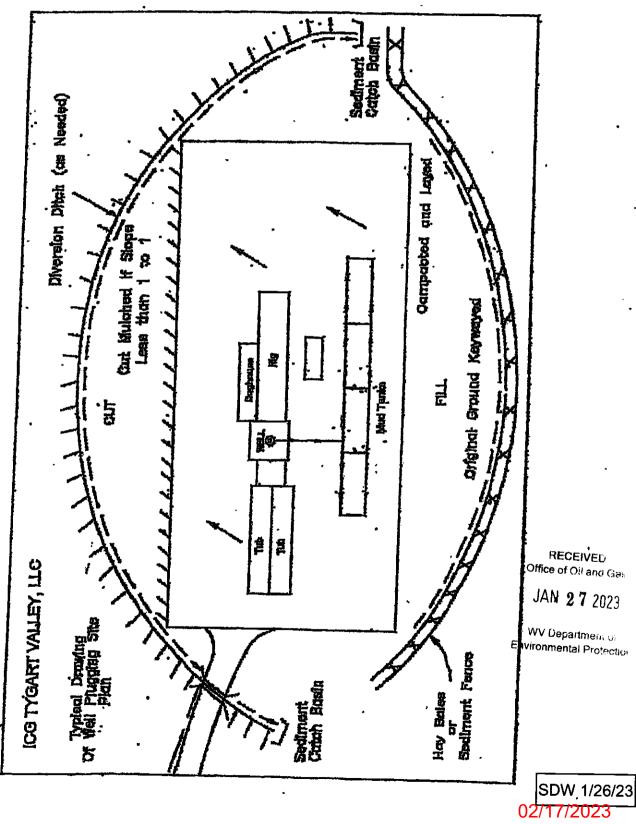
Sinceret

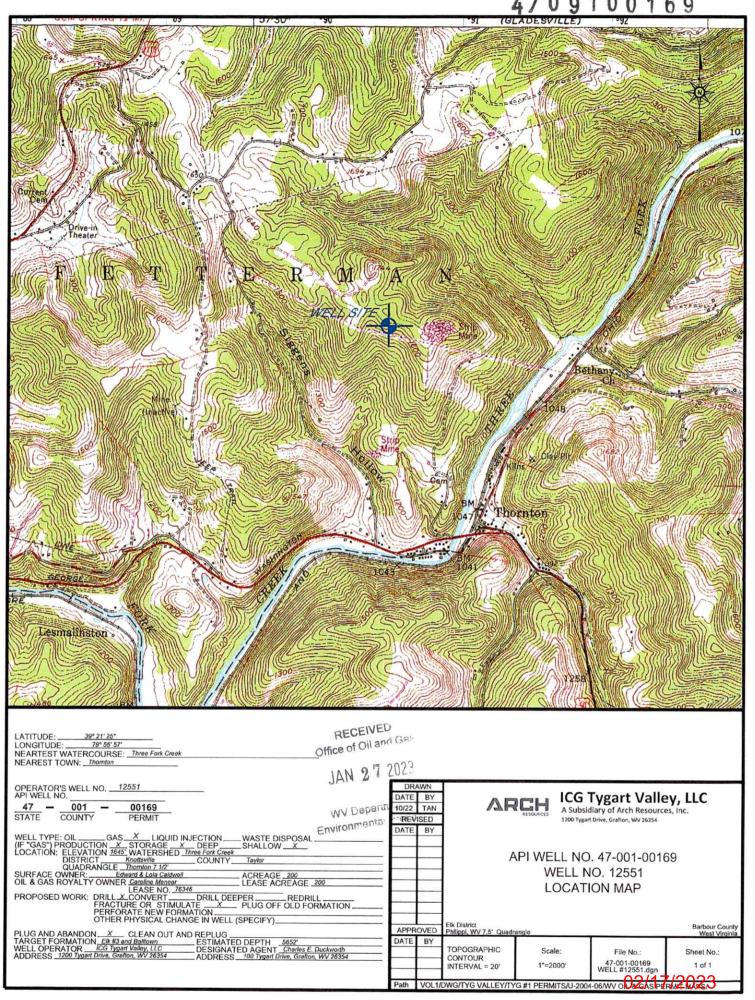
Charles E. Duckworth

Designated Agent

RECEIVED Office of Oil and Ga.

WV Departmon... Environmental Procession





WW-7 8-30-06



# West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-091-00169	WELL NO.:	12551
FARM NAME: Carl E. Manear		
RESPONSIBLE PARTY NAME: COUNTY: Taylor  QUADRANGLE: Thornton	G Tygart Valley, LLC	
COUNTY: Taylor	DISTRICT: Kno	ottsville
QUADRANGLE: Thornton		
SURFACE OWNER: Edward and Lol	a Caldwell	
ROYALTY OWNER: Caroline Manear -	c/o Dale Allen Milburn	
UTM GPS NORTHING: 4357005		
UTM GPS EASTING: 590494	GPS ELEVAT	ΓΙΟΝ: <sup>1646.96</sup> '
	plugging permit or assigned will not accept GPS coordinated GPS coord	API number on the tes that do not meet
Mapping Grade GPS: Post Pro	<del>-</del>	WV Departing Services
	me Differential	
4. Letter size copy of the topo. I the undersigned, hereby certify this dat belief and shows all the information requirescribed by the Office of Oil and Gas.	a is correct to the best of my uired by law and the regulation	knowledge and
Duc / Po	ower of Attorney	January 23, 2023
Signature 3	Title	Date

# POWER OF ATTORNEY ICG TYGART VALLEY, LLC TO GREG NAIR

<u>Dated: January 1, 2023</u> <u>Expires: December 31, 2023</u>

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 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 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, 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.

ICG TYGART VALLEY, LLC

Rosemary L. Klein

Secretary

Office of Oil and

JAN 27 2023

WV Department Service Project Service Project

STATE OF MISSOURI ) ss COUNTY OF ST. LOUIS )

On this 1st 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.

My Commission Expires: Mar

JOLENE JOUETT MERMIS Notary Public - Notary Seal St Louis County - State of Missouri Commission Number 15388596 My Commission Expires May 21, 2023

RECEIVED
Office of Oil and Gas

JAN 27 2022

WV Department of Environmental Protection

#### 4709100169

#### SURFACE OWNER WAIVER

Operator's Well Number

12551

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

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

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

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

RECEIVED
Office of Oil and Gas

JAN **27** 2023

WV Department of Environmental Protection

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

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 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 hobjection to a permit being issue FOR EXECUTION BY A NATUETC.	u on those materials	planned wo		materials, and I have no
Signature	Date	Name By		
		Its		Date
			Signature	Dete-

02/17/2023



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

#### plugging permit approved 4709100169

3 messages

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

Thu, Feb 16, 2023 at 2:59 PM

To: "Duckworth, Charles" <cduckworth@archrsc.com>, Samuel D Ward <samuel.d.ward@wv.gov>, ckinsey@wvassessor.com

To whom it may concern, a plugging permit has been approved for 4709100169.

James Kennedy

WVDEP OOG

2 attachments



IR-8 4709100169.pdf



4709100169.pdf 3482K

Duckworth, Chuck E. <cduckworth@archrsc.com>

Thu, Feb 16, 2023 at 3:51 PM

To: "Kennedy, James P" <james.p.kennedy@wv.gov>, Samuel D Ward <samuel.d.ward@wv.gov>, "ckinsey@wvassessor.com" <ckinsey@wvassessor.com>

Thanks Jamie.... Appreciate it. CHUCK

Chuck Duckworth

Arch Land WV

Leer & Leer South Mining Complex's

100 Tygart Drive

Grafton, WV 26354

(304) 552-8783



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

Sent: Thursday, February 16, 2023 2:59 PM

To: Duckworth, Chuck E. <cduckworth@archrsc.com>; Samuel D Ward <samuel.d.ward@wv.gov>; ckinsey@wvassessor.com

**Subject:** plugging permit approved 4709100169

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern, a plugging permit has been approved for 4709100169.

James Kennedy

**WVDEP OOG** 

\*\*\*Email Disclaimer: The information contained in this e-mail, and in any accompanying documents, may constitute confidential and/or legally privileged information. The information is intended only for use by the designated recipient. If you are not the intended recipient (or responsible for delivery of the message to the intended recipient), you are hereby notified that any dissemination, distribution, copying, or other use of, or taking of any action in reliance on this e-mail is strictly prohibited. If you have received this e-mail communication in error, please notify the sender immediately and delete the message from your system.

ckinsey@wvassessor.com <ckinsey@wvassessor.com> To: "Kennedy, James P" <james.p.kennedy@wv.gov></james.p.kennedy@wv.gov></ckinsey@wvassessor.com>	Fri, Feb 17, 2023 at 8:23 AM
Thank you!	
Christa R. Kinsey	
Taylor County Assessor	
From: Kennedy, James P <james.p.kennedy@wv.gov> Sent: Thursday, February 16, 2023 2:59 PM To: Duckworth, Charles <cduckworth@archrsc.com>; Samuel D Ward <samuel.d.ward@wv.gov>; ckinsey@wvassessor.com Subject: plugging permit approved 4709100169</samuel.d.ward@wv.gov></cduckworth@archrsc.com></james.p.kennedy@wv.gov>	
To whom it may concern, a plugging permit has been approved for 4709100169.	
James Kannady	
James Kennedy	
WVDEP OOG	