

#### 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

Monday, September 9, 2024 WELL WORK PLUGGING PERMIT Vertical Plugging

ICG TYGART VALLEY, LLC 100 TYGART DR

GRAFTON, WV 26354

Re:

Permit approval for LOIS A. BAKER 3

47-091-01069-00-00

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: LOIS A. BAKER 3

Farm Name:

BAKER, LOIS ANN

U.S. WELL NUMBER: 47-091-01069-00-00

Vertical Plugging

Date Issued: 09/09/2024

# PERMIT CONDITIONS

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

#### **CONDITIONS**

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

WW-4B Rev. 2/01

1) Date August 14	20 24
2) Operator's	
Well No. Baker#3	
3) APT Well No. 47-91	01069

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

OFFICE OF	OIL AND GAS
APPLICATION FOR A PERM	HIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas/ Liquid	injection/ Waste disposal/
(If "Gas, Production or Und	lerground storage) Deep/ Shallow X
1010	Watershed Tributary of Sandy Creek
5) Location: Elevation 1648'	County Taylor Quadrangle Thornton (638)
District Knottsville	County County Quadranges
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
Name Gayne Knitowski	Name Coastal Drilling East, LLC Address 130 Meadows Ridge Road
Address 21 Energy Way	Mt. Morris, PA 15349
Gormania, WV 26720	IVIL IVIOTIO, 177 100 TO
See Exhibit Nos. 1 and 2 and MSHA 101-C Exico 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 = 466.80'  Approximate coal seam bottom = 471.6	RECEIVED Office of Oil and Gas AUG 3 0 2024  WV Department of Environmental Protection
ork can commence. Gayne Digital Gayne Knitowski, Inspec Date:	l and gas inspector 24 hours before permitted  by signed by knitowski.  to the control of the co

#### EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Diversified Production 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".

Gayne Knitowski, Inspector Digitally signed by Gayne Knitowski, Inspector Date: 2024,08,26 07:01:43

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#### EXHIBIT B

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"

12/04/2023

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

Mr. Duckworth,

Below is the proposed plugging plan we discussed that can be used on wells similar to the wells we have been plugging for the last few years. This is the procedure we will generally utilize to plug 47-001-01069, 47-001-01117 and 47-001-01195 gas wells.

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#### Plugging Plan

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- Move to site, rig up, mix mud, drill rathole
- Bullhead well and maintain static well head pressures
- Clean out well to original total depth
- Run cement bond log on 4 ½" casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond bg.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 ½" casing from the free point determined by the bond bg.
- Clean out wellbore to top of remaining 4 ½"casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 50' of the bottom of the 7" casing.
- If necessary cut and pull any free casing.
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition for the Leer South Mine
- Multiple cuts may be required to be placed with both the bonded 7" and 9 5/8" casing strings. The cuts will be placed in 18" increments through the mining area in the Clarion Coal Seam.
- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition for the Leer Mine.
- Rig down and set monument as required by WV DEP.
- Contractor will utilize Class A cement, unless Class B becomes state approved.

Gayne Knitowski, Inspector Digitally signed by Gayne Knitowski, Inspector Date: 2024.08.26 07:02:20 has eron will be available. The its base will be located near the working ince.

(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 wall intersection.

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

through the well.
(7) When mining is in progress, tests for methane will be made with a handheld methans 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 sclual 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.

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

(9) When the woll 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 flama will be permitted in the area until adequate ventilation has been established around the well.

(11) After a wall has been intersected and the working place determined sale, mining will continue they the well at a distance sufficient to poxinit 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 MSRA, and personnel from MSRA, and personnel from the Kontucky OMSL.

[23] The mining-through operation will be under the direct supervision of

a cectified individual. Instructions concerning the mining-through operation will be issued only by the certified tudividual in charge. MSHA personnel may interrupt or halt the nuining through operation when necessary for the safety of the minera. (14) Within 30 days after this Order becomes final, the politioner will submit

proposed terisions for its approved minu emergency evacuation and liverighting plan required by 30 CFR 75.1501. The petitioner will revise the pleas to include the hazaids and evacuation procedures to be used for well intersections.

The politioner firther 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

Mine: Mine Ng. 1, MSFI4 I.D. No. 15-16784, Route 696 Benedict Road, St. Charles, Virginia 24282, located in Harlan County, Konfucky.

Regulation Affected: 30 CFR 75,208

(Warning devices).

Madification Request: This putitioner 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 diphysical barrier to he installed to impede havel 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 he installed on the second, row of permanent roof support

outby tursupported 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 theniselves no close; then the second full cow of installed roof bolts 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 an employee keeps from unsupported roof inoreses.

The petitioner asserts that the proposed alternative mothed will at all limes guarantee no loss than the same measure of protoction afforded by the

existing standard, Dacket Number M-2012-065-C, Petitioner: ICG Tygart Valley, LLC, 1200 Tygart Drive, Grafton, West Virginia 26354.

Mine: Tygart #1 Mine, MSHA LD. No. 46-09392, located in Taylor County, West Virginia.

Regulation Affected: 30 CER 75,1700 (Oll and gas wells).

l'adification dequest: The patidones equests a medification of the satisfie standard requising that barriers be astahlished and maintalaed around oil and gas wells peastating collects or permit an alternative method of ompliance. The petitioner states that:

(1) The mine is projected to encounter vertical in-seam bereholes, typical to ail and natural gas wells, as mine

levelopment progresses. (2) The active development section is oprojeking these boreholes, and is projected to encounter additional borcholes to the future as mining oparations continue.

(3) The procedure presented in this atition will be used to easure that orining through those borelioles is accomplished safely and, as an alternative to compliance with 40 CFR 13.1700, will provide no less than the rame measure of protection to the miners, as required by the MSHA. standard:

The getitioner proposes to use the or gas wells:

(1) Prior to plugging an oil or gas well, diligent effort will be made to clean His borohole to the original total depth. Cthis depth cannot be reached, the borchole will be cleaned out to a depth Hist would permit the placement of at east 200 feet of expanding coment eldraim Jesvo litika lowest miadble coal bed.

(2) When cleaning the borehole, a diligent effort will be mede to remove all of the casing in the borehole. If it is not possible to comove all of the casing, he casing that remains will bo perforated or ripped at intervals spaced close enough to pernit expanding between the casing and the bombols wall for a distance of at least 200 feet beliaw tite base of the lowest minuble coal bed.

(3) If the cleaned-out borehole produces gos, a mechanical bridge plug will be placed in the borehole in a competent stratum at least 200 feet before the base of the lowest minable coal bod, but above the top of the upperntost hydrocarbon-prodiuing alraium. If it is not possible to set u mochanical 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 ivallhere 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 method to be used

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(4) A suite of logs will be made.

consisting of a coliner survey, and log(s) suitable for determining the top and bottom of the lowest mindble coal bad and potential hydrocarbon-producing strate and the location for the bridge

(6) If the upperniest hydrocarhouproducing stratum is within 200 feet of
the base of the lowest mineble coal bed,
properly placed mechanical bridge
plugs or a entiable 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
teet of expanding coment will be placed
colour the lowest minable coal bed.

(6) The wellbore will be completely

(6) The welloos will be completely filled and circulated with a sel that inhibits any flow of gas, supports the walls of the breshole, and increases the lensity of the expanding cement. This gel will be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the bosshole or bridge plus.

area of the borshole or bridge plus.
The petitioner proposes to use the following procedures when plugging gas and of which the runform.

and oil wells to the surface;

(1) A cement plug will be set in the wellbore by pumping expending cement sharry down the tubing to displace the gel and fill the betefoole to the surface. As an alternative, the cement sharry may be pumped down the tubing so that the breakole is filled. There will be at least 200 feet of expending cement below the base of the lowest mineble 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 insgnetic monument of the borohole.

The following procedures will be used for the vent pipe medical for

olugging of and gas walls:

(1) A 4%-inch or larger pipe will be an into the wallbore to a depth of 100 leat below the lowest minable coal bed and wedged to a smaller diseaser pipe that, if desired, will extend to a point approximately 20 test shove the bottom of the cleaned-out area of the borehole or bridge plug.

(2) A carrent plug will be set in the wellbore by numping expanding coment sturry. Portland coment, or a Portland coment-fly ask mixture down the hibing to displace the gel so that the borehole is filled with coment. The borehole and

the vent ripo will be filled with expanding cament for a minimum of 200 feet below the base of the lowest minable coal bod. The top of the expanding cament will extend unward to a point approximately 100 feet above the top of the lowest minable coal had.

(3) All fluid will be evicuated from

(3) All fluid will be evicuated from the vent pipe to facilitate testing for gases. During the avacuation of fluid, the expanding coment will not be disturbed.

(4) The top of the vent pipe will be protected to prevent liquide or solids from entering the wellbox. But permit ready across to the full internal diamater 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 bareholes:

(1) A cement plug will be set in the wallbore by pumping expending cement slurry down the tubing to displace the gel and provide at least 200 feet of expending cement below the lowest minable coal hed. The top of the expending cement will extend upward to a point above the top of the coal hed being mined. This distance will be bessed on the average height of the roof state breakage for the mine.

(2) To facilitate methane drainage.

(2) To facilitate methane drainage, degestification casing of suitable dismater, slotted or performed throughout its lower 150 to 200 feet, will be set in the boroliole for point to 30 feet above the top of the expanding occupation.

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

(a) The degasification cosing will be cleared our for its total length.

(5) The top of the degusification cusing will be fitted with a welffield equipped as required by the District Manager. Such equipped may include check valves, shut-in valves, sampling just, flame arestyr equipment, and security forcing

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 the 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 politioner will drill a hole adjacent and parallel to the well to a

depth of at least 200 feet below the lowest minable coal seam.

(2) The patitioner will use a geoghysical sensing device to focate any casing that may remain in the well.

(3) If the well contains cosing(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 cin all casings at intervals of at least 6 feet. Beyond this distance, the petitioner will pariforate or nip at least every so 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 ivell wall with expanding coment (minimum 0.5 percent expansion upon selfing), 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 vip the casing for that particular well or fill these oreas with cement. When multiple cosing and tubing sleings are present in the coal horizon(s), any easing that remains will be ripped or performed and filled with expanding comentas indicated above. An acceptable casing bond log for each casing and lubing siding is needed if used in lieu of ripping or periocating

multiple strings.
(4) Where the petitioner determines and the District Manager agrees that there is insulficient easing in the well to (3) above to be used, then the pullforer will usa a horizoutal hydraulic fractiving lacknique to intercent the original wall. From at least 200 fact halow the base of the lowest minable coal scam to a point at least 50 feet above the room being mined, the politioner will fracting at least six places at intervals to be agreed upon by the politioner and the District Monager after considering the geological strata and the pressure within the well. The politioner will then pump expanding coment into the fracilised well in sufficient quantities and in a monner that fills all intercepted voids.

(5) The patitioner will prepare downtiole 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
putitioner 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 opprove the use of a Howar-hole comeral survey in Hou of down-hale 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 length of casing(s) removed, perforated, or ripped or loft in place; and other perliant information

concerning sealing the well.
(6) After the pelitioner has plugged. tire well, the petitioner will plug the open postions of both holes from the bottom to the surface with Perfland coment or a lightweight coment 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 mornument of the well. In the niternative, a 41/2 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 he used in a single well, depending upon the conditions of the hole and the presence of casings, The politioner 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 pelitioner proposes to use the following cuttlifough procedures whenover the safety barries diameter is reduced to a distance loss 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 distorce less than the District Managor would approve or proceeding with intent to out firough 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

Moneger.
(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, divige sights will be installed at the lost open crosscut near the place to be mixed to ensure Intersection of the woll. The drivage sights will not be more that 50 feet from the woll. When using longwall mining methods, drivage sights will be installed on All-took centers for a distance of All feet in advance of the well unto. The deluge sights will be installed in the hendgere and tailgate.

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

(6) Sufficient supplies of toof support and yeirli lation materials will be available and located at the last onen crossout. In addition, an entergency plug and/or plugs will be available in the inmediate 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 mirante (clm) of air the scrubber-equipped combinations miners or not less than 9,000 cha for continuous infiner sections using auxiliary lans or line brattice only. will be used in ventilate the working face during the mining-through operation. The quantity of air required by the ventilation plan, but not less than 30,000 cm, 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 well. The mediana monitors on the continuous mining machine or the longwall shear and face will be calibrated on the shift prior to mining drough the well.

(9) When mining is in progress, tests for methane will be made will a handheld mediane detector at least every 10 nimules from tho time that mining wills the continuous mining machine is within 30 feet of the well until the well is intersected and imprediately prior to mining through. When mining with longwall mining equipment, tests for methano 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 wall mining through has been completed and the area has been examined and declared sale.

(10) When using continuous mining methods, the working area will be free from accumulations of goal dust and coal spillages, and rook dust will be placed on the reaf, rib, and floor to within 20 lost of the face when mining through or mear the wall on the shift of shifts during which the cut-through will occur. On longwall sections, rockdusting will be conducted and placed

on the roof, rib. and floor up to both

handgeth and tellgate gab. [11] When the wellbore is futersected. all equipment will be deenergized and the area thoroughly examined and determined safe before mining is resumed, Any well casing will be ed llive amell nego on has bovomer 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 even of the wellhore

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

appropriate State agency.
(14) The mining-through operation
will be trader the direct supervision of a certified official. Instructions concerning the mining-through certified official in charge. MSHA personael may interrupt or halt the maning-theough operation when necessary for the safety of the miners.

(ta) The politioner will file a plugging

affidavit setting forth the persons who porticipated in the work, a description of the phigging work, and a certification by the patitioner 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 THE 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 PDD. The petitioner asserts that the

proposed alternative mothod will at all

RECEIVED things guarantee miners no loss the office of Oil and Gas sinite measure of protection as afforded AUG 3 0 2024 by the existing standard.

Docket Number: M-2012-002-M. Petitioner: Hecla Greens Crook Mining Company, P.O. Box 32190, Juneau,

WV Department of Mine: Greens Greek Mine, MSEA Environmental Protection o. 50-01267. Incaled : No. 100-01267. Aloska 99803. No. 50-01267, located in Juneau

County, Alaska. Regulation diffected: 30 CFR 57,74130 (Roll-over protective structures (ROPS) and seal belts for surface equipment).

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

Signed:

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

Well Operator	r's Report of W	ell Work			
Farm name: Lois Baker	Opera	ator Well No.:_	3		
LOCATION: Elevation: 1648'	Quad	rangle:	Thornton		
District: Knottsville	Coun	ty:	Taylor		
Latitude: 8170 Feet South of 39 Longitude: 9790 Feet West of 79	Deg. 20 Deg. 52	Min. 00 Min. 30			
Company: Texas Keystone, Inc.	Casing &	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address: 560 Epsilon Drive					
Pittsburgh PA, 15238	13 3/8"	44.2'	44.2'	Sanded In	
Agent: Jon Farmer	13 3/8	44.2	77.2	Danes A	
Inspector: Bill Hatfield Date Permit Issued: 7/13/2006	9 5/8"	309.4	309.4	100 SKS	
Date Well Work Commenced: 10/2/06				Inc ava	
Date Well Work Completed: 10/9/06	7"	1282.0'	1282.0'	185 SKS	
Verbal Plugging:	4 1/2"	5417.2'	5414.2'	211 SKS	
Date Permission granted on: N/A Rotary X Cable Rig	4 72	24114	1211		
Total Depth (feet): 5985'					
Fresh Water Depth (ft.):			<b>_</b>		
90', 625', 630'					
Salt Water Depth (ft.):					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.): 475', 515'					
Fourth Producing formation Bayard Gas: Initial open flow Co-mingled Final open flow Co-mingled Time of open flow between initial and f	MCF. MCF. MCF. MCF. MCF. MCF. MCF. MCF.	d Oil: Initial d Oil: Final Hours Surface press one depth (ft) d Oil: Initial Hours Surface press one depth (ft) d Oil: Initial d Oil: Initial d Oil: Final Guran Surface press one depth (ft) d Oil: Final Guran Hours one depth (ft)	5230'- 5236'   open flow	Bbl/d  Bbl/d  Bbl/d  Hours  Bbl/d  Bbl/d  Bbl/d  Bbl/d  Bbl/d  Hours	RECEIVED Office of Oil and Gas AUG 3 0 2024  Wy Department of Environmental Protection
Fifth Producing formation  Gas: Initial open flow  Final open flow  Time of open flow between initial and f.  Static rock Pressure  NOTE: ON BACK OF THIS FORM PUT THE FO  INTERVALS, FRACTURING OR STIMULATING  LOG WHICH IS A SYSTEMATIVE DETAIL  INCLUDING COAL ENCOUNTERED BY THE WI	MCF. MCF. inal testsNA psig ( LLOWING: 1). PHYSICAL C EDGEOLOG	/d Oil: Initial /d Oil: Final /d Hours surface press  DETAILS OF THANGE, ET	open flow open flow ure) after F PERFORATED C. 21. THE WEL	Hours	
INCLUDING COAL BINCOUNTERED BY THE WA					

Perfed 3<sup>rd</sup> Elk 5230'- 5236' (18 shots). BD 3447#. 200 sks 20/40. 464,873 scf N<sub>2</sub> - Foam Frac. Perfed Balltown A 3063'- 3084' (32 shots). BD 2835#. 530 sks 20/40. 552,000 scf N<sub>2</sub> - Foam Frac. Perfed Speechley A 2518' - 2523' (10 shots) & Bayard 2455' - 2462' (14 shots). BD 4000#. 410 sks 20/40. 512,000 scf N<sub>2</sub> - Foam Frac.

			MATTER
ROCK DESCRIPTION	TOP DEPTH	BOTTOM DEPTH	NOTES
LET DOWN	0	- 8 12	
FILL	8	20	
SANDSTONE	12 20	40	
GRAY SHALE	40	45	
REDROCK SHALE	45	115	1" FW @ 90'
SANDSTONE	115	210	
SHALE	210	270	
SANDSTONE	270	370 390	
SANDY SHALE	370	410	
SHALE	390 410	430	
SANDY SHALE	430	440	
SHALE SANDSTONE	440	475	
COAL	475	485	
SANDY SHALB	485	500	
SHALE	500	515 520	
COAL	515	520 525	
SANDSTONE	520 525	580	
SANDY SHALE	525 580	620	DAMP @ 625'
SANDSTONE	620	660	W" FW @ 630'
SANDY SHALE SANDSTONE	660	755	
SANDY SHADE	755	770	
SHALE	770	845	
SANDY SHALE	845	935 980	
REDROCK	935	1080	
SANDY SHALE	980 1080	1160	
SHALE	1160	1170	
REDROCK	1170	1214	
SHALE LITTLE LIME	1214	1228	
PENCIL CAVE SHALB	1228	1250	
BIO LIME	1250	1464	
SHALE	1464	1498 1512	
SANDSTONE	1498 1512	1548	
SHALE	1548	1593	
WEIR SANDSTONE	1593	1738	
SHALE GANTZ SANDSTONE	1738	3771	
SHALE	1771	1786	
SANDSTONE	1786	1854 1906	
SANDY SHALE	1854	2061	
SHALE	1906 2061	2438	
SANDY SHALE	2438	2464	
BAYARD SANDSTONE SHALE	2464	2514	
SPEECHLBY A SANDSTONE	2514	2523	
SANDY SHALE	2523	2618	
SHALE	2618	3025 3088	
BALLTOWN A SANDSTONE	3025 3088	3106	
SHALE	3106	3132	
BALLTOWN B SANDSTONE	3132	3920	
SHALE SANDY SHALE	3920	4045	
2 <sup>ND</sup> RILEY SANDSTONE	4045	4060	
SHALE	4060	4146	
3 <sup>RD</sup> RILEY SANDSTONE	4146	4174	
SHALE	4174	4315 4575	
SANDY SHALE	4315 4575	4696	
SHALE	4696	5042	
SANDY SHALE 2 <sup>ND</sup> BLK A SANDSTONE	5042	\$056	
SANDY SHALE	5056	5228	
3 <sup>RD</sup> ELK SANDSTONE	5228	5265	ΤD
SHALE	5265	5985	10
		.*:	

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AUG 30 2024

WV Department of Environmental Protection

01069

WW-4A Revised 6-07

1) Date:	August 14, 2024	
2) Operator'	s Well Number	
Baker #3		

3) API Well No.: 47 -

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: Bradley Dean Baker and Cra		(a) Coal Operator Name	CoalQuest Development, L	LC	
(a) Name	197 Thomas Farm Road	g Wolfies Baker	Address	100 Tygart Drive		
Address		0		Grafton, West Virginia 2635	j4	
(b) Name		(b) Coal Ow	ner(s) with Declarati	on		
			Name			
Address			Address			
	-			•		
4 5 3 7			Name		RECEIVED Office of Oil and G	ias_
(c) Name			Address		Office of Office	
Address			_		AUG 3 0 202	4
			() Cool I or	ssee with Declaration	AUG 3 V CVS	
6) Inspector	Gayne Knitowski			see with Declaration	ont	of
Address	21 Energy Way		Name		WV Department Environmental Prot	ection
	Gormania, WV 26720		Address		Environmental	
Telephone	(304) 546-8171		=	-		
Take notic accompany Protection,	you are not required to take any a e that under Chapter 22-6 of the ying documents for a permit to pl	West Virginia Cod lug and abandon a vocation described of ailed by registered	te, the undersigned well well with the Chief of the in the attached Application or certified mail or de	operator proposes to file or ha	in the instructions on the reverses so the instructions on the reverses so that is still the source of this Notice and Application of the source of this Notice of the source of the sou	and ental tice,
	V	Vell Operator	ICG Tygart Valley, LL	· Mil		
		ву:	Charles E. Duckworth		(Ce)	
		ts:	Designated Agent			
	_	ddress	100 Tygart Drive	100	7).	
	Д	,ddrcso	Grafton, West Virginia	26354		
	Т	'elephone	(304) 265-9704			
	1	etebuoue	<u> </u>		este a	
Mouse	eworth before me this next becomber 22, 20		ay of August 2024	NOTARY PUBLIC	OFFICIAL SEAL C. STATE OF WEST VIRGINIA TOS GROOMY NAM Wooster Avenue Bentlem W. 2000	
viy Commission	I Taybues Foreign 11			My Commissio	n Expires December 22, 2034	
1:1 and Car Priv	acy Notice		,		···········	

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our

regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our ousiness or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act reoffice 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>. 09/13/2024

### SURFACE OWNER WAIVER

Operator's Well Number

Baker #3	

# 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 RECEIVED

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

AUG 3 0 2024

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

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.

bjection to th	e planned work d	described in these materials, and I have no
se materiais.		FOR EXECUTION BY A CORPORATION,
Date	Name	Hart Hart
	By Its	Date
	se materials. RSON	ese materials. ERSON  Date Name By

Signature

A Subsidiary of



# ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

August 14, 2024

Bradley Dean Baker Craig Monroe Baker 197 Thomas Farm Road Thornton, West Virginia 26440

Re: Plugging Permit - API # 47-091-01069 - Well No. Baker #3

Dear Mr. Baker:

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 applications for the above referenced wells 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 Environmental Services

Enclosures

RECEIVED
Office of Oil and Gas

AUG 3 0 2024

WV Department of Environmental Protection

CERTIFIED MAIL NO. 9589 0710 5270 1400 7237 25 RETURN RECEIPT REQUESTED



Office of Oil and Gas

AUG 3 0 2024

W Department of Environmental Protection WW-4B

API No.	47-091-01069	
Farm Name	Baker, Lois Ann	
Well No.	Baker #3	

## 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
1 1 in a record order	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: B   14   2024	CoalQuest Development, LLC  By: Greg Nair  Power of Attorney  RECEIVED  Office of Oil and Gast  Office of Oil and 2024  AUG 3 0 2024  Environmental Protection

#### **POWER OF ATTORNEY**

# COALQUEST DEVELOPMENT LLC TO GREG NAIR

<u>Dated: January 1, 2024</u> <u>Expires: December 31, 2024</u>

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, 2024, 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

Rosemary L. Klein

Secretary

RECEIVED
Office of Oil and Gas

AUG 30 2024

:WY Department DI Environmental Protection STATE OF MISSOURI ) ) ss COUNTY OF ST. LOUIS )

On this 14th day of December, 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.

Notary Public

My Commission Expires: Nov. 6, 2026

ANGELA DABROSKY
Notary Public - Notary Seal
Jefferson County - State of Missouri
Commission Number 22700496
My Commission Expires Nov 6, 2026

RECEIVED
Office of Oil and Gas

AUG 30 2024

WV Department of Environmental Projection WW-9 (5/16)

API Number 47 -	091	01069
Operator's Well No		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (FIDC 10) Tributary of Sandy Creek Quadrangle Thornion (638)  Do you anticipate using more than 5,000 bits of water to complete the proposed well work? Yes No I if so, please describe anticipated pit waste:  Will a synthetic liner be used in the pit? Yes No I if so, what mil.?  Proposed Disposal Method For Treated Pit W astes:  Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location)  Toff Site Disposal (Supply form WW-9 for disposal location)  Off Site Disposal (Supply form WW-9 for disposal location)  Will closed loop systembe used? If so, describe: Yes, Gel circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, firshwater, oil based, etc. freshwater  If oil based, what type? Synthetic, petroleum, etc.  Additives to be used in drilling medium? Bentonie, Bicarbonate or Sode  Drill cuttings disposal method? Leave in pit, landfill, removed offisite, etc. removed offisite  I felt in pit and plan to solidify what medium will be used? (cement, line, sawdust)  Landfill or offsite name/permit number? (CG Tygar Valley, LIC - Permit No. 0-2017-08  West Virginia solid waste facility. The notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia begartment of Environmental Protection. Lunderstand that the provisions of the permit and or protection cutters and provide waste rejected at any west Virginia Solid waste facility. The notice shall be provided within 24 hours of rejection and the permit and/or other applicable law or regulation can lead to enforcement action.  I certify that I understand and agree to the terms and conditions of the CENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. Lunderstand that the provisions of the permit and/or other applicabl	Operator Name_ICG Tygart Valley, LLC OP Code
Do you anticipate using more than 5,000 bibs of water to complete the proposed well work? Yes No VIII a be used? Yes No VIII a synthetic liner be used in the pit? Yes No VIII a synthetic liner be used in the pit? Yes No VIII a synthetic liner be used in the pit? Yes No VIII fso, what mil.?  Proposed Disposal Method For Treated Pit Wastes:  Land Application (if selected provide a completed form WW-9-GPP)  Undorground Injection (UC Permit Number  Reuse (at API Number  Off Site Disposal (Supply form WW-9 for disposal location)  "Other (Esplain Tanks - See attached letter  Off Site Disposal (Supply form WW-9 for disposal location)  "Other (Esplain Tanks - See attached letter)  Will closed loop systembe used? If so, describe: Yes, Gal circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater  If oil based, what type? Synthetic, petroleum, etc.  Additives to be used in drilling medium? Bentonle, Bloarbonnels or Sods  Drill cuttings disposal method? Leave in pit, landfill, removed offisite, etc.  If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  Landfill or offisite name/permit number? CCT Tygart Valley, LC. Permit No. O-2017-66  Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waster rejected at any West Vignin's solid waster 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 Cas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforced be by law. Volcations of any term or candition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law	Watershed (HLIC 10) Tributary of Sandy Creek Quadrangle Thornton (638)
Will a synthetic liner be used in the pit? Yes No	Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
If so, please describe anticipated pit waste:  Will a synthetic liner be used in the pit? Yes \( \) No \( \) If so, what mit?  Proposed Disposal Method For Treated Pit Wastes:  Land Application (if selected provide a completed from WW-9-GPP)  Underground Injection (UC Permit Number  Reuse (at API Number  Off Site Disposal (Supply from WW-9 for disposal location)  Other (Explain Tanks See attached letter  Will closed loop systembe used? If so, describe: Yes, Gel circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater  -If oil based, what type? Synthetic, petroleum, etc.  Additives to be used in drilling medium?  Bentonite, Bicarbonate or Soda  Office of Oil and Gas  Office of Oil and Gas  I certify that in pit and plan to solidify what medium will be used? (cement, fime, sawdust)  -Landfill or offsite name/permit number? ICG Tygort Valley, LLC - Permit No. 0-2017-06  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 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 information, including the condition of the general permit and/or other applicable law or regulation form and all attachments thereof and that these down in inquity of those individuals immediately responsible fo	
Will a synthetic liner be used in the pit? Yes No If so, what mil?  Proposed Disposal Method For Treated Pit Wastes:  Land Application (if selected provide a completed from WW-9-GPP)  Underground Injection (UIC Permit Number  Reuse (at API Number  Off Site Disposal (Supply from WW-9 for disposal location)  Other (Explain Tanks See attached lotter  Will closed loop systembe used? If so, describe: Yes, Gel circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater  If oil based, what type? Synthetic, petroleum, etc.  Additives to be used in drilling medium?  Bentonile, Bicarbonate or Soda  Office of Oil and Gas  Office of Oil and Gas  Office of Oil and Gas  Tieft in pit and plan to solidify what medium will be used? (cement, line, sawdust)  -Landfill or offsite name/permit number? ICG Tygent Valley, LLC - Permit No. 0-2017-06  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLIUTION PERMIT issued on April I, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereof and that based on my inquiry of those individuals immediately responsible for obtaining application form and all attachments thereof and that based on my inquiry of those individuals immediately responsible for b	Will a bit of about
Proposed Disposal Method For Treated Pit Wastes:  Land Application (if selected provide a completed from WW-9-GPP) Underground Injection ( UIC Permit Number Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Tanks - See attached lotter  Will closed loop systembe used? If so, describe: Yes, Gel circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, fireshwater, oil based, etc. reshwater  If oil based, what type? Synthetic, petroleum, etc. Additives to be used in drilling medium? Bentonike, Bicarbonale or Sode  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 2017-06  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose  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 Cas 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 from and all attachments there/of and that based on my inquiry of those individuals immediately responsible for obtaining the information, including the foot to the permit and/or other applicable law or regulation can lead to enforcement action.  Company Official Title Designated Agent  Measurement of the permit and per	
Land Application (if selected provide a completed form WW-9-GPP)  Underground Injection (UIC Permit Number)  Reuse (at API Number)  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain Tanks - See attached lotter)  Will closed loop systembe used? If so, describe: Yes, Gel circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater  If oil based, what type? Synthetic, petroleum, etc.  Additives to be used in drilling medium?  Bentonile, 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)  I and fill or offsite name/permit number? ICG Tygart Valley, LLC - Permit No 2017-06  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 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 from and all attachments therefore and the permitter of other applicable law or regulation can lead to enforcement action.  Company Official Title Designated Agent  Many of August  Many of August  Notary Publical Signature  Company Official Title Designated Agent	
Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Tanks - See attached letter  Will closed loop systembe used? If so, describe: Yes, Gal circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater - If oil based, what type? Synthetic, petroleum, etc.  Additives to be used in drilling medium? Bentonite, Blearbonate or Sode  Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. removed offsite  Jf left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)  - Landfill or offsite name/permit number? ICG Tygert Valley, LLC - Permit No. 0-2017-06  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 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/orother 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, I believe that the floorotion of the general permit and/orother applicable law or regulation form and all attachments therefore the permit are enforceable by law. Violations of any term or condition of the general permit and/orother applicable law or regulation form and all attachments therefore the permit are completed. I am aware that there are significant penalties for submitting fake information, including the footbilling of fine or impac	
Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain Tanks - See attached letter)  Will closed loop systembe used? If so, describe: Yes, Gel circulated from tank thru well bore ad returned to tank.  Drilling medium anticipated for this well (vertical and horizontal)? Air, fireshwater, oil based, etc	Underground Injection (UIC Permit Number
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My commission expires 12/22/2024 09/13/2024	on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Elivinomatical 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 application form and all attachments thereto and that based on my inquiry of those individuals immediately responsible for obtaining application form and all attachments thereto and that based on my inquiry of those individuals immediately responsible for obtaining application. I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title Designated Agent  Subscribed and sworn before me this day of August Norman Public, State of West Variance and Company Norman Varia

Proposed Revegetation Treatment: Acres Disturbed 1.50 / 2.0

47091010698 Operator's Well No. Baker #3 Preveg etation pH \_\_\_\_\_

Lime 3	Tons/acre or to con	rect to pH 6.5		
Fertilizer type	10-20-20 or equivalent			
Fertilizer amount 500  Mulch Hay Bales		lbs/acreTons/acre		
Temporary		_	Permanent	
0 100	lbs/acre	Seed Type	lbs/acre	
Seed Type Orchard Grass		Orchard Grass	12	
Landino Clover	3	Landino Clover	3	
Timothy	10	Timothy	10	
Plan Approved by:	Gayne Knitowski, Dipidally signed by Gsyne Inspector Otter 2024/00/2016 of 2021-16 			
Citizens				
£6			RECEIVED Office of Oil and Gas	
			AUG 3 0 2024	
			AUG 3 0 202	
			W Department of Environmental Protection	
			and the first section of the section	
Title. Inspector		Date: 8-26-2024		
Title.				
Field Reviewed?	(X)Yes	()No		



# ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

August 14, 2024

WV Department of Environmental Protection Office of Oil and Gas  $601 - 57^{th}$  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.

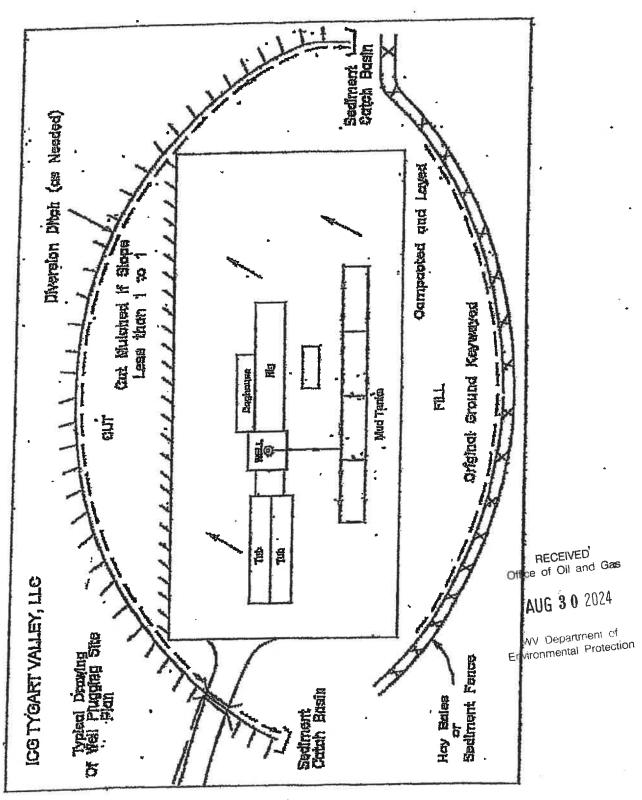
Sincerely

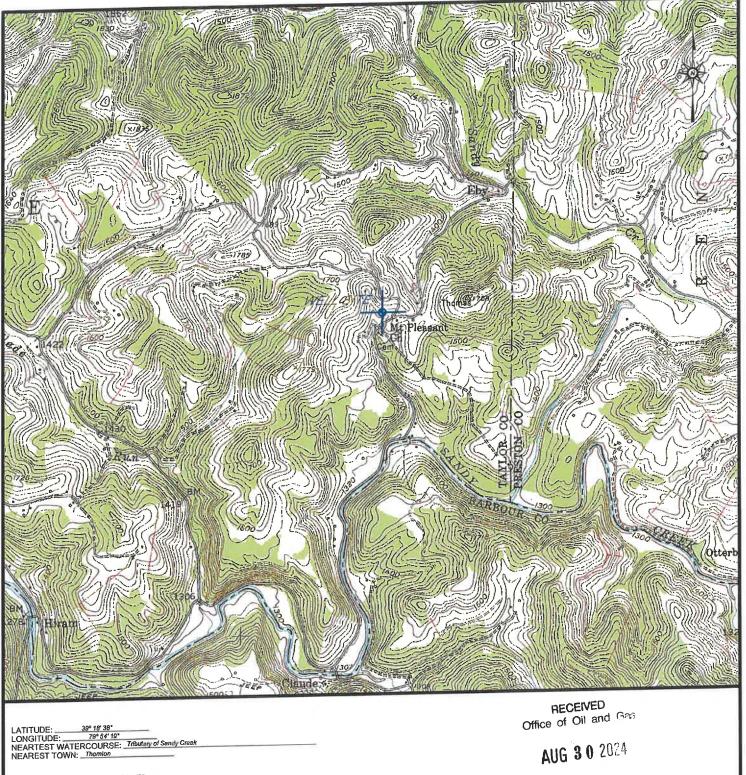
Charles E. Duckworth Designated Agent

Office of Oil and Gas

AUG 3 0 2024

WV Department of Environmental Protection





OPERATOR'S WELL NO. Baker #3

API WELL NO.

47 - 091 - 01069
STATE COUNTY PERMIT

WELL TYPE: OIL GAS. X LIQUID INJECTION WASTE DISPOSAL

(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1949: WATERSHED Tribulary of Sandy Croek

DISTRICT Knottwille COUNTY Toylor

QUADRANGLE Thomton 1/1/2

SURFACE OWNER: Bradley Dean Baker and Croek Monroe Baker LEASE ACREAGE 90.1

OIL & GAS ROYALTY OWNER Bradley Dean Baker and Croek Monroe Baker LEASE ACREAGE 90.1

OIL & GAS ROYALTY OWNER Bradley Dean Baker and Croek Monroe Baker LEASE ACREAGE 90.1

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG

PLUG AND ABANDON CLEAN OUT AND REPLUG

ESTIMATED DEEPTH 5990'

ESTIMATED DEEPTH 5990'

ESTIMATED DEEPTH 5990'

ESTIMATED AGENT Chuck E Duckworth

WELL OPERATOR (GG Tygart Velbey LIC DESIGNATED AGENT Chuck E Duckworth

WELL OPERATOR (GG Tygart Velbey LIC DESIGNATED AGENT Chuck E Duckworth

WELL OPERATOR (GG Tygart Velbey LIC DESIGNATED AGENT Chuck E Duckworth

WELL OPERATOR (GG Tygart Velbey LIC DESIGNATED AGENT Chuck E Duckworth

		ygart Valle ry of Arch Resources,	ey, LLC
1233	1200 Tygant Di	tve, Grafton, WV 26354	
	WELL NO	, 47-001-010€ ). Baker #3 ON MAP	9
rict 7.5' Quadranglo			Taylor Count West Virgini
HIC	Scale:	File No.:	Sheet No.:
20'	1"=2000"	47-001-01069 Baker #3.don	1 of 1
		20	

WW-7 8-30-06



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

# WELL LOCATION FORM: GPS

WELL L	OCATION FORM: G.	LO	
<b>API:</b> 47-091-01069	WELL NO	ELL NO.:	
FARM NAME: Baker, Lois Ann RESPONSIBLE PARTY NAMI COUNTY: Taylor			
RESPONSIBLE PARTY NAMI	E: ICG Tygart Valley, LLC		
COUNTY: Taylor	DISTRICT: _	nottsville	
QUADRANGLE: Thornton			
	Baker and Craig Monroe Baker	_	
	Delta Lance Delta		
UTM GPS NORTHING: 43518			
UTM GPS NORTHING	GPS ELEV	1650.24'	
height above mean sea  2. Accuracy to Datum – 3  3. Data Collection Metho Survey grade GPS _ X _: Post	one: 17 North, Coordinate Units level (MSL) – meters. 3.05 meters od: Processed Differential	: meters, Altitude:  RECEIVED Office of Oil and Gas  AUG 3 0 2024	
	-Time Differential X	WV Department of Environmental Protection	
	ost Processed Differential	_	
	e topography map showing the his data is correct to the best of on required by law and the regu	my knowledge allo	
Signature -	Title	Date	
Dignature		00/42/2024	

# 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

RECEIVED
Office of O' on Gr

AUG 3 0 2024

W Department of Environmental Protection STATE OF MISSOURI ) ) ss COUNTY OF ST. LOUIS )

On this 1 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.

Motary Public

My Commission Expires: May 21, 2023

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

AUG 3 0 2024

WV Department of Environmental Protection