



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, April 5, 2023  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for LOIS A. BAKER 4  
47-091-01070-00-00

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: BAKER, LOIS ANN  
U.S. WELL NUMBER: 47-091-01070-00-00  
Vertical Plugging  
Date Issued: 4/5/2023

Promoting a healthy environment.

04/07/2023

# PERMIT CONDITIONS

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

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## CONDITIONS

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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.

04/07/2023

4709101070

- 1) Date March 7, 2023
- 2) Operator's  
Well No. Baker #4
- 3) API Well No. 47-01 - 01070

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas \_\_\_ / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1548' Watershed Tributary of Glade Run  
District Knottsville County Taylor Quadrangle Thornton (638)

6) Well Operator Diversified Resources, Inc. 7) Designated Agent Austin Sutler  
Address P.O. Box 6070 Address 414 Summer Street  
Charleston, WV 25362 Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name Coastal Drilling East, LLC  
Address P.O. Box 2327 Address 130 Meadows Ridge Road  
Buckhannon, WV 26201 Mt. Morris, PA 15349

10) Work Order: The work order for the manner of plugging this well is as follows:  
See Exhibit Nos. 1 and 2 and MSHA 101-C Exemption

Appropriate coal seam top = 444.28'

Approximate coal seam bottom = 450.62'

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

Work order approved by inspector Samuel D. Ward  
Digitally signed by Samuel D. Ward II  
Date: 2023.03.08 13:17:43 -05'00' Date 3/8/23

04/07/2023

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**EXHIBIT NO. 1**

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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".

Samuel D. Ward II	Digitally signed by Samuel D. Ward II Date: 2023.03.08 13:17:53 -0500
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04/07/2023

**EXHIBIT No. 2**

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

Mr. Duckworth,

Below is the proposed plugging plan we discussed that can be used on wells like the wells we have been plugging for the last few years. This is the procedure we will generally utilize to plug 47-091-01070, 01067, and 01069.

Plugging Plan

- Move to site, rig up, mix mud, drill rathole
- Bullhead well and maintain static well head pressures
- Removed any/all of the 1 ½" tubing from surface to TD (5760')
- Clean out well to original total depth (5760').
- 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 log.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 ½" casing from the free point determined by the bond log.
- Clean out wellbore to top of remaining 4 ½" casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 50' of the bottom of the 7" casing.
- If necessary cut and pull any free casing.
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition for the Leer Mine.
- 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 Lower Kittanning Coal Seam.
- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition for the Leer Mine.
- Rig down and set monument as required by WV DEP.
- Contractor will use Class A cement.

Samuel D. Ward II	Digitally signed by Samuel D. Ward II Date: 2023.03.08 13:18:01 -05'00'
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04/07/2023

face area will be available. The fire hose 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 permeability 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 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 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 area has been examined and declared safe.

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

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

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

(11) After a well has been intersected and the working place determined safe, mining will continue in 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 halt the mining-through operation when necessary for the safety of the miners.

(14) Within 30 days after this Order becomes final, the petitioner will submit

proposed revisions for its approved mine emergency evacuation and firefighting plan required by 30 CFR 75.1507. The petitioner will revise the plans to include the hazards and evacuation procedures to be used for well intersections.

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

Docket Number: M-2012-062-C.  
Petitioner: Lone Mountain Processing, Inc., Drawer C, St. Charles, Virginia 24282.

Mine: Mine No. 1, MSHA I.D. No. 15-10784, Route 636 Benedict Road, St. Charles, Virginia 24282, located in Haysan County, Kentucky.

Regulation Affected: 30 CFR 75.208 (Warning devices).

Modification 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 petitioner 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 Procautions 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 roof bolts outby the face."

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

(4) Safety increases when the distance an 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.

Docket Number: M-2012-063-C.  
Petitioner: ICG Tygart Valley, LLC, 1200 Tygart Drive, Grafton, West Virginia 26354.

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

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

Modification Request: The petitioner requests a modification of the existing standard regarding that barriers be established and maintained around oil and gas wells penetrating coalbeds or underground areas of coal mines to permit an alternative method of compliance. The petitioner states that:

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

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

(3) The procedure presented in this petition will be used to ensure that mining through these boreholes 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 petitioner 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 that 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 be perforated or ripped at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest minable coal bed.

(3) If the 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 wallbore before placement of cement through the minable coal seam(s). Such approval will be documented in a written response to the operators' submittal of a detailed explanation of the method to be used.

and an engineering evaluation of the relative effectiveness of the alternative.

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

(5) If the uppermost hydrocarbon-producing 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 feet of expanding cement 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 increases the density 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 borehole or bridge plug.

The 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 expanding cement slurry down the tubing to displace the gel and fill the hole 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 cement below the base of the lowest minable coal bed.

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

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

(1) A 2 1/2-inch or larger pipe will be run into the wellbore to a depth of 100 feet below the lowest minable coal bed and wedged to a smaller diameter pipe that, if desired, will extend to a point approximately 20 feet above the bottom of the cleaned-out area of the borehole or bridge plug.

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

the vent pipe will be filled with expanding cement for a minimum of 200 feet 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 bed.

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

(4) The top of the vent pipe will be protected to prevent liquids or solids from entering the 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 cement plug will be set in the wellbore by pumping expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest minable coal bed. The top of the expanding cement 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 methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, will be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.

(3) The annulus between the degasification casing and the borehole 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 fencing.

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

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

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

(2) The petitioner will use a geophysical 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 hole. From 10 feet below the coal seam to 10 feet above the coal seam, the petitioner will perforate or rip all casings at intervals of at least 6 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 cement (minimum 0.5 percent expansion upon setting), and will ensure that these areas contain no voids. If the petitioner, using a casing bond log, can demonstrate to the satisfaction of the District Manager that the annulus of the well is adequately sealed with cement, then the petitioner will not be required to perforate or rip the casing for that particular well or fill these areas with cement. When multiple casing and tubing strings are present in the coal horizon(s), any casing that remains will be ripped or perforated and filled with expanding 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 feet below the base of the lowest minable coal seam to a point at least 50 feet above the seam being mined, the petitioner will fracture at least six places at intervals to be agreed upon by the petitioner and the District Manager after considering the geological strata and the pressure within the well. The petitioner will then pump expanding cement into the fractured well in sufficient quantities and in a manner that fills all intercepted voids.

(5) 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 makes it impractical to insert the equipment

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

(3) After the petitioner has plugged the well, the petitioner will plug the open portions of both holes from the bottom to the surface with Portland cement or a lightweight cement mixture. The petitioner will embed steel turnbuckles 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 4½-inch or larger casing set in cement will extend at least 36 inches above the ground level. A combination of the methods outlined in paragraphs (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 petitioner and the District Manager may discuss the nature of each hole and the District Manager may require the use of more than one method.

The petitioner proposes to use the following cut-through procedures whenever the safety barrier diameter is reduced to a distance less than the District Manager would approve pursuant to §75.1790 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 Manager.

(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 than 50 feet from the well. When using longwall mining methods, drivage sights will be installed

on 10-foot centers for a distance of 50 feet in advance of the well work. The drivage sights will be installed in the headgate and tailgate.

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

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

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

(9) When mining is in progress, tests for methane will be made with a hand-held 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 20 feet of the face when mining through or near the well on the shift or shifts during which the cut-through will occur. On longwall sections, rock-dusting will be conducted and placed

on the roof, rib, and floor up to both headgate and tailgate gob.

(11) When the wellbore is intersected, all equipment will be demagnetized 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 suby the well at a distance sufficient to permit adequate ventilation around the area of the wellbore.

(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 MSHA, 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 necessary for the safety of the miners.

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

(16) Within 90 days after the Proposed Decision and Order (PDO) becomes final, the petitioner will submit proposed revisions for its approved 30 CFR Part 48 training plan to the District Manager. The provisions will include initial and refresher training regarding compliance with the terms and conditions stated in the PDO.

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

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

Mine: Greens Creek Mine, MSHA I.D. No. 50-01267, located in Juneau County, Alaska.

Regulation Affected: 30 CFR 57.24130 (Roll-over protective structures (ROPS) and seat belts for surface equipment).

Modification Request: The petitioner requests a modification of the existing standard to permit employees to be transported 1,800 feet to and from the surface dry facility to work sites underground using underground mine



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

4709101070

Well Operator's Report of Well Work

Farm name: Lois Baker Operator Well No.: 4

LOCATION: Elevation: 1548' Quadrangle: Thornton

District: Knottsville County: Taylor

Latitude: 8390 Feet South of 39 Deg. 20 Min. 00 Sec.

Longitude: 10890 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560 Epsilon Drive Pittsburgh PA, 15238				
Agent: Jon Farmer	13 3/8"	44.2'	44.2'	Sanded In
Inspector: Bill Hatfield				
Date Permit Issued: 7/13/2006	7"	1149.2'	1149.2'	165 SKS
Date Well Work Commenced: 10/10/06				
Date Well Work Completed: 10/14/06	4 1/2"	5245'	5245'	235 SKS
Verbal Plugging:				
Date Permission granted on: N/A				
Rotary X Cable Rig				
Total Depth (feet): 5424'				
Fresh Water Depth (ft.): 65'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 175'				

OPEN FLOW DATA

Producing formation 3<sup>rd</sup> Elk Pay zone depth (ft) 5075' - 5080'  
 Gas: Initial open flow G/S TSTM MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 280 MCF/d Oil: Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests NA Hours  
 Static rock Pressure 925 psig (surface pressure) after 24 Hours

Second Producing formation 2<sup>nd</sup> Elk A Pay zone depth (ft) 4892' - 4896'  
 Gas: Initial open flow Co-mingled MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow Co-mingled MCF/d Oil: Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests NA Hours  
 Static rock Pressure Co-mingled psig (surface pressure) after \_\_\_\_\_ Hours

Third Producing formation Balltown B Pay zone depth (ft) 2989' - 3005'  
 Gas: Initial open flow Co-mingled MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow Co-mingled MCF/d Oil: Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests NA Hours  
 Static rock Pressure Co-mingled psig (surface pressure) after \_\_\_\_\_ Hours

Fourth Producing formation Bayard Pay zone depth (ft) 2330' - 2335'  
 Gas: Initial open flow Co-mingled MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow Co-mingled MCF/d Oil: Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests NA Hours  
 Static rock Pressure Co-mingled psig (surface pressure) after \_\_\_\_\_ Hours

Fifth Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests NA Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: \_\_\_\_\_  
 By: PAUL M. HERDING  
 Date: 2-19-07

Samuel D. Ward II  
 Digitally signed by Samuel D. Ward II  
 Date: 2023.03.08 13:18:12 -0500

04/07/2023

Perfed 3<sup>rd</sup> Elk 5075'- 5280' (20 shots). BD 1500#. 250 sks 20/40. 435,320 scf N<sub>2</sub> - Foam Frac.  
 Perfed 2<sup>nd</sup> A Elk 4892'- 4897' (20 shots). BD 4654#. 255 sks 20/40. 418,344 scf N<sub>2</sub> - Foam Frac.  
 Perfed Balltown B 2989'- 2996' (21 shots). BD 2505#. 503 sks 20/40. 410,578 scf N<sub>2</sub> - Foam Frac.  
 Perfed Bayard 2329' - 2335' (18 shots). BD 2623#. 413 sks 20/40. 440,475 scf N<sub>2</sub> - Foam Frac.

4709101070

ROCK DESCRIPTION	TOP DEPTH	BOTTOM DEPTH	NOTES
LET DOWN	0	8	
CLAY	8	12	
SANDY SHALE	12	25	
SANDSTONE	25	85	1/2" FW @ 65'
SHALE	85	120	
SANDSTONE	120	175	
COAL	175	180	
SHALE	180	215	
SANDSTONE	215	250	
SANDY SHALE	250	270	
SHALE	270	300	
SANDSTONE	300	325	
SHALE	325	445	
SANDSTONE	445	620	
SHALE	620	730	
SANDSTONE	730	812	
SHALE	812	830	
REDROCK	830	840	
SANDSTONE	840	915	
SHALE	915	925	
SANDY SHALE	925	940	
SANDSTONE	940	970	
REDROCK	970	1083	
LITTLE LIME	1083	1097	
PENCIL CAVE SHALE	1097	1114	
BIG LIME	1114	1333	
SHALE	1333	1366	
SANDSTONE	1366	1381	
SHALE	1381	1418	
WEIR SANDSTONE	1418	1466	
SHALE	1466	1508	
WEIR SANDSTONE	1508	1567	
SHALE	1567	1608	
GANTZ SANDSTONE	1608	1692	
SANDY SHALE	1692	2158	
LOWER 4 <sup>TH</sup> BAND	2158	2191	
SANDY SHALE	2191	2327	
BAYARD SANDSTONE	2327	2336	GAS SHOW @ 2332' T8TM
SHALE	2336	2378	
SPEECHLEY A SANDSTONE	2378	2406	
SHALE	2406	2905	
BALLTOWN A SANDSTONE	2905	2948	
SHALE	2948	2980	
BALLTOWN B SANDSTONE	2980	3005	
SHALE	3005	3135	
BALLTOWN C SANDSTONE	3135	3150	
SHALE	3150	3988	
3 <sup>RD</sup> RILEY SANDSTONE	3988	4006	
SANDY SHALE	4006	4052	
SHALE	4052	4145	
SANDY SHALE	4145	4286	
SHALE	4286	4348	
SANDY SHALE	4348	4399	
SHALE	4399	4541	
SANDY SHALE	4541	4788	
2 <sup>ND</sup> ELK SANDSTONE	4788	4820	
SHALE	4820	4890	
2 <sup>ND</sup> ELK A SANDSTONE	4890	4997	
SANDY SHALE	4997	4928	
SHALE	4928	5065	
3 <sup>RD</sup> ELK SANDSTONE	5065	5106	
SHALE	5106	5424	TD

Samuel D. Digitally signed by Samuel D.  
 Ward II Ward II  
 Date: 2023.03.08 13:18:19  
 -05'00'

04/07/2023

4709101070

WW-4A  
Revised 6-07

1) Date: March 7, 2023  
2) Operator's Well Number  
Baker #4  
3) API Well No.: 47 - 91 - 01070

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Bradley Dean Baker (Life)</u>	Name <u>CoalQuest Development, LLC</u>
Address <u>197 Thomas Farm Road</u>	Address <u>100 Tygart Drive</u>
<u>Thornton, West Virginia 26440</u>	<u>Grafton, West Virginia 26354</u>
(b) Name <u>Craig Monroe Baker (Fee)</u>	(b) Coal Owner(s) with Declaration
Address <u>197 Thomas Farm Road</u>	Name _____
<u>Thornton, West Virginia 26440</u>	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>(304) 389-7583</u>	

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

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

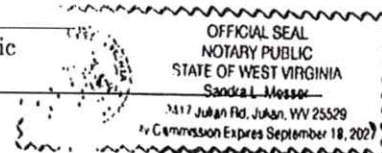
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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

Well Operator Diversified Production LLC  
 By: Austin Suller *[Signature]*  
 Its: Asset Retirement Manager  
 Address 414 Summer Street  
Charleston, West Virginia 25301  
 Telephone (304) 543-8988

Subscribed and sworn before me this 17th day of March, 2023

Sandra L. Messer Notary Public  
My Commission Expires Sept. 18, 2027



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

04/07/2023

**SURFACE OWNER WAIVER**

Operator's Well  
Number

**4709101070**

Baker #4

**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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

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

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

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

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

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

**VOLUNTARY STATEMENT OF NO OBJECTION**

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

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

Date **04/07/2023**

4709101070

A Subsidiary of

**ARCH**  
RESOURCES

## ICG TYGART VALLEY, LLC

---

100 Tygart Drive, Grafton, West Virginia 26354

March 7, 2023

Bradley Dean Baker (Life)  
Craig Monroe Baker (Fee)  
197 Thomas Farm Road  
Thornton, West Virginia 26440

Re: Plugging Permit – API # 47-91-01067 – Well No. Baker #1  
Plugging Permit – API # 47-91-1070 – Well No. Baker #4

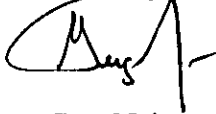
Dear Mr. Baker:

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 application for the above referenced wells that ICG Tygart Valley, LLC plans to submit on behalf of Diversified Production LLC to the WV Department of Environmental Protection, Office of Oil and Gas.

If you have no objection to the plugging, permit applications, 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 [gnair@archrsc.com](mailto:gnair@archrsc.com).

Sincerely,



Greg Nair  
Manager Surface Mine Planning

Enclosures

CERTIFIED MAIL NO. 7021 1970 0000 0908 4154  
RETURN RECEIPT REQUESTED

04/07/2023

4709101070

7021 1970 0000 0908 4154

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee  
 \$ 4.15

Extra Services & Fees (check box, add fees and complete)

<input type="checkbox"/> Return Receipt (hardcopy)	\$	<u>2.50</u>
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	

Postage  
 \$ 2.84

Total Postage and Fee  
 \$ 10.44

Sent To  
 Bradley Dean Baker (Life)

Street and Apt. No.  
 Craig Monroe Baker (Fee)  
 197 Thomas Farm Road

City, State, ZIP+4®  
 Thornton, West Virginia 26440

PS Form 3800, Apr 2012



04/07/2023

WW-4B

4709101070

API No.	47-091-01070
Farm Name	Baker, Lois Ann
Well No.	Baker #4

**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 than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

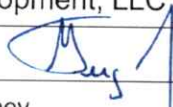
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24,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

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

**WAIVER**

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

Date: 3/7/2023

CoalQuest Development, LLC  
 By: Greg Nair   
 Its Power of Attorney

04/07/2023

**POWER OF ATTORNEY**

**COALQUEST DEVELOPMENT LLC  
TO  
GREG NAIR**

**Dated: January 1, 2023**

**Expires: December 31, 2023**


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

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

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

COALQUEST DEVELOPMENT LLC

By: \_\_\_\_\_

  
Rosemary L. Klein  
Secretary



4709101070

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

On this 1<sup>st</sup> 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

My Commission Expires: 11/8/2024

WW-9  
(5/16)

4709101070

API Number 47 - 091 - 01070  
Operator's Well No. Baker #4

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

Operator Name Diversified Production LLC OP Code \_\_\_\_\_

Watershed (HUC 10) Tributary of Glade Run Quadrangle Thornton (638)

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

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:

SDW 3/8/2023

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Tanks - See attached letter)

Will closed loop system be used? If so, describe: Yes, Gel circulated from tank thru well bore and returned to tank.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. freshwater

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

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

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

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

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

Permittee shall provide written notice to the Office of Oil and 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 form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Austin Suttler*

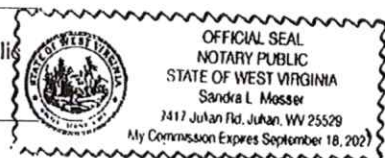
Company Official (Typed Name) Austin Suttler

Company Official Title Asset Retirement Manager

Subscribed and sworn before me this 7th day of March, 2023

Sandra L. Messer Notary Public

My commission expires Sept. 18, 2027



04/07/2023

Proposed Revegetation Treatment: Acres Disturbed 1.50 / 2.0 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Hay Bales Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	12	Orchard Grass	12
Landino Clover	3	Landino Clover	3
Timothy	10	Timothy	10

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Samuel D. Ward II  
Digitally signed by Samuel D. Ward II  
Date: 2023.03.08 13:18:46 -0500

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: OOG Inspector Date: 3/8/23

Field Reviewed? ( ) Yes (  ) No

DIVERSIFIED PRODUCTION LLC  
414 SUMMER STREET, CHARLESTON, WEST VIRGINIA 25301

4709101070

March 7, 2023

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

To Whom It May Concern:

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

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

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to ICG Tygart Valley, LLC DEP impoundment facilities O201706 or to an approved facility that can handle the material.

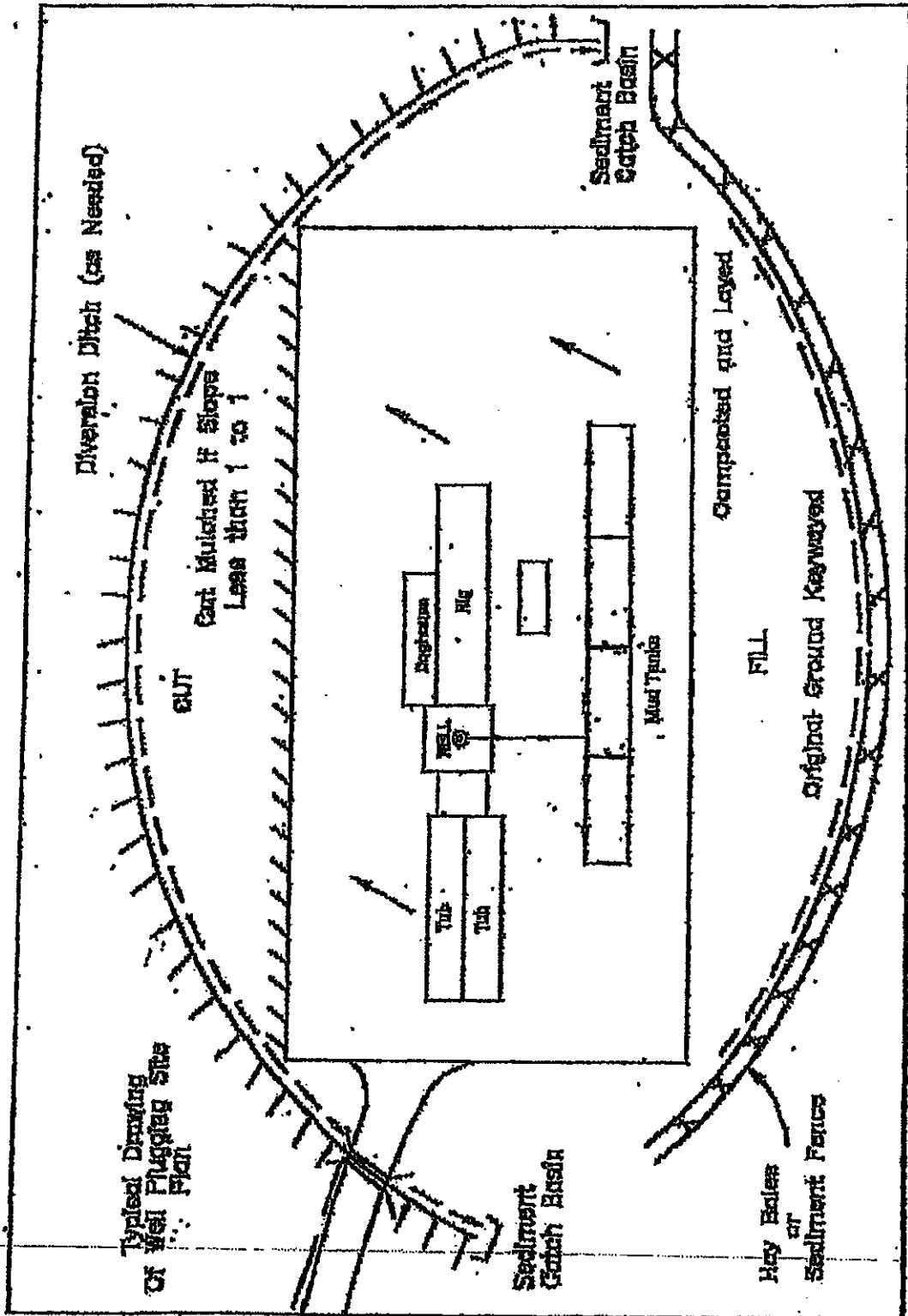
Sincerely,

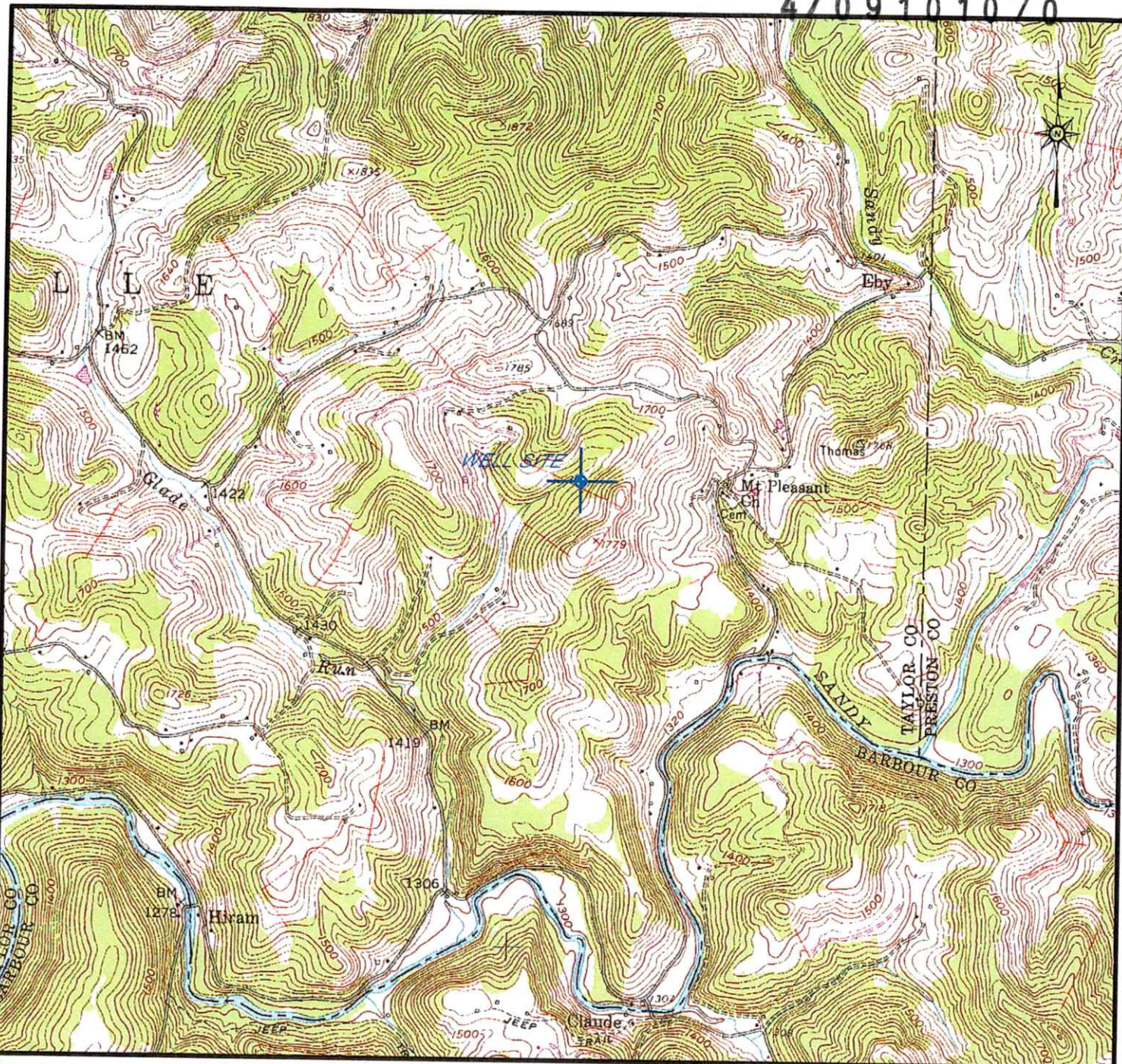


Austin Sutler  
Asset Retirement Manager

Samuel D. Ward II	Digitally signed by Samuel D. Ward II Date: 2023.03.08 13:19:06 -0500
----------------------	--

04/07/2023





LATITUDE: 39° 18' 48"  
LONGITUDE: 79° 54' 40"  
NEAREST WATERCOURSE: Tributary of Glade Run  
NEAREST TOWN: Thornton

OPERATOR'S WELL NO. Baker #4  
API WELL NO.  
47 - 091 - 01070  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1648' WATERSHED Tributary of Glade Run  
DISTRICT Knottsville COUNTY Taylor  
QUADRANGLE Thornton 7 1/2'  
SURFACE OWNER: Bradley Dean Baker (LIFE) and Craig Monroe Baker (FEE) ACREAGE 71 of 90.1  
OIL & GAS ROYALTY OWNER: Bradley Dean Baker (LIFE) and Craig Monroe Baker (FEE) LEASE ACREAGE 90.1

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

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION Devonian Shale ESTIMATED DEPTH 5990'  
WELL OPERATOR Diversified Resources, Inc. DESIGNATED AGENT Austin Suttler  
ADDRESS P.O. Box 6070, Charleston, WV 25362 ADDRESS P.O. Box 6070, Charleston, WV 25362

DRAWN	
DATE	BY
3/23	TAN
REVISED	
DATE	BY

**Diversified Resources, Inc.**  
P.O. Box 6070, Charleston, WV 25362

API WELL NO. 47-001-01070  
Baker #4  
LOCATION MAP

Knottsville District  
Thornton, WV 7.5' Quadrangle Taylor County  
West Virginia

DATE	BY	TOPOGRAPHIC CONTOUR INTERVAL = 20'	Scale: 1"=2000'	File No.: 47-001-01070 Baker #4.dgn	Sheet No.: 1 of 1

4709101070

WW-7  
8-30-06



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

API: 47-091-01070 WELL NO.: Baker #4

FARM NAME: Baker, Lois Ann

RESPONSIBLE PARTY NAME: Diversified Resources, Inc.

COUNTY: Taylor DISTRICT: Knottsville

QUADRANGLE: Thornton

SURFACE OWNER: Bradley Dean Baker (Life) and Craig Monroe Baker (Fee)

ROYALTY OWNER: Bradley Dean Baker (Life) and Craig Monroe Baker (Fee)

UTM GPS NORTHING: 4351762

UTM GPS EASTING: 593708 GPS ELEVATION: 1551.81'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

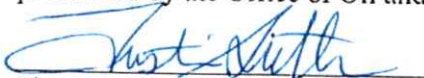
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

  
Signature

Asset Retirement Manager  
Title

March 7, 2023  
Date

04/07/2023



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

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## plugging permits issued 4709101067 4709101070

1 message

---

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

Wed, Apr 5, 2023 at 9:32 AM

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


To whom it may concern, plugging permits have been issued for 4709101067 4709101070.


James Kennedy


WVDEP OOG


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### 4 attachments

 **ir-8 4709101067.pdf**  
12K

 **4709101070.pdf**  
3537K

 **ir-8 4709101070.pdf**  
120K

 **4709101067.pdf**  
3378K

04/07/2023