

west virginia department of environmental protection

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

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

Tuesday, March 14, 2023 WELL WORK PLUGGING PERMIT Vertical Plugging

BERRY ENERGY, INC. 310 STILES ST

CLARKSBURG, WV 263012252

Re:

Permit approval for THOMAS 2

47-091-01058-00-00

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:

THOMAS 2

Farm Name: POLHEMUS, MARK & KATH

U.S. WELL NUMBER: 47-091-01058-00-00

Vertical Plugging Date Issued: 3/14/2023



PERMIT CONDITIONS

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

CONDITIONS

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

WW-4B Rev. 2/01

| 1) Date January 25 | 2023 |
|-----------------------|---------|
| 2) Operator's | |
| Well No. Thomas #2 | |
| 3) API Well No. 47-91 | - 01058 |

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

| | APPLICATION FOR A PERI | MIT TO PLUG AND ABANDON |
|------------|---|---|
| 4) | Well Type: Oil / Gas / Liquio | |
| - / | | derground storage) Deep/ ShallowX |
| | · · · · · · · · · · · · · · · · · · · | |
| 5) | Location: Elevation 1712' | Watershed Tributary of Little Sandy Creek |
| | District Knottsville | County Taylor Quadrangle Thornton (638) |
| <i>c</i> 1 | Well Operator Berry Energy, Inc. | David B Berry |
| 6) | Address 310 Stiles Street | 7) Designated Agent David B. Berry Address 310 Stiles Street |
| | Clarksburg, WV 26301 | Clarksburg, WV 26301 |
| | ciamosaig, VIV 20001 | old Nobel 9, 111 20001 |
| 8) | Oil and Gas Inspector to be notified | 9) Plugging Contractor |
| | Name Sam Ward | Name Coastal Drilling East, LLC |
| | Address P.O. Box 2027 | Address 130 Meadows Ridge Road |
| | Buckhannon, WV 26201 | Mt. Morris, PA 15349 |
| | Work Order: The work order for the mans See Exhibit Nos. 1 and 2 and MSHA 101-C E | office of MAR 0.1 2023 MAR 0.1 2023 MAR 0.1 2023 MAR 0.1 2023 WWW. Departmental Protection Environmental Protection |
| A | Appropriate coal seam top = 496.50' | |
| 1 | Approximate coal seam bottom = 502. | .80' |
| | | |
| | | |
| | | |
| | fication must be given to the district of can commence. | il and gas inspector 24 hours before permitted |
| Work | order approved by inspector Kenneth Grey | nolds Digitally sopred by Kenneth Ceryoridas SNC CN = Kenneth Dispricida serali = Kenneth L. Ceryonida@ww.gov. C = AD 0 = WVDCEP OU = Oil and Gas Date = 2023 02 27 14 43 45 -6500 |

EXHIBIT NO. 1

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

SOLID PLUG METHOD



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

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

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

Office Of Oil and Gas

MAR 0 1 2023

WV Department of Environmental Protection



EXHIBIT #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"

06/21/2021

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 similar to the wells we have been plugging for the last few years. This is the procedure we will generally utilize to plug 47-091-01171: 47-091-01058 P

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 (5717')
- Clean out well to original total depth (5717'). \$350'
- Run cement bond log on 4 1/2" casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond 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 1/2" 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 transport Office Of Oi of the 7" casing. 85/8" CASING (CTS)
- 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 WV Department of
- Optional: Depending on findings versus records, multiple cuts may be required 45/4" 'casing string The cuts will to be placed with the bonded 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.

Kenneth Greynolds Non-Kenneth 03/17/2023 face area will be available. The fire hose will be located near the working face.

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

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

through the well.

(7) When mining is in progress, tests for methane will be made with a handheld methane detector at least every 10 minutes, from the time that mining with the continuous mining machine is within 30 feet of the well until the well is intersected, and immediately prior to mining through. 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

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

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

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

(12) No person will be permitted in the area of the mining-through operation except those actually engaged in the 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 75.1501. The petitioner will revise the plans to include the hazards and evacuation procedures to be used for well intersections.

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

Docket Number: M-2012-064-C. Petitioner: Lone Mountain Processing, Inc., Drawer C, St. Charles, Virginia 24282.

Mine: Mine No. 1, MSHA I.D. No. 15-18734, Route 636 Benedict Road, St. Charles, Virginia 24282, located in Harlan 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 Precautions for Remote Control Operation of Continuous Mining Machines states that "While using remote controls, the continuous mining machine operator and all other persons will position themselves no closer than the second 'full row' of installed roof bolts outby the face."

(3) This petition is necessary to improve safety and to attain commonality 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-2012-065-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 requiring 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:

Prior to plugging an oil or gas well, a diligent effort will be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole will be cleaned out to a depth that would permit the placement of at least 200 feet of expanding 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 wellbore before placement of cement through the minable coal seam(s). Such approval will be documented in a written response to the operators' submittal of a detailed explanation of the method to be used

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

(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 borehole 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 4½-inch or larger pipe will be run into the wellbore to a depth of 100 feet below the lowest minable coal bed and wedged to a smaller diameter pipe that, if desired, will extend to a point approximately 20 feet above the bottom of the cleaned-out area of the 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-fly 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 5 feet. Beyond this distance, the petitioner will perforate or rip at least every 50 feet from at least 200 feet below the base of the lowest minable coal seam up to 100 feet above the seam being mined. The petitioner will fill the annulus between the casing, and between the casings and the well wall with expanding 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 downhole logs for each well. The logs will consist of a caliper survey and log(s) suitable for determining the top, bottom, and thickness of all coal seams and potential hydrocarbon-producing strata and the location for the bridge plug. The petitioner may obtain the logs from the adjacent hole rather than the well if the condition of the well makes it impractical to insert the equipment

necessary to obtain the log. The District Manager may approve the use of a down-hole cameral 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. (6) After the petitioner has plugged the well, the petitioner will plug the open portions of both holes from the bottom to the surface with Portland cement or a lightweight cement mixture. The petitioner will embed steel turnings or other small magnetic particles in the top of the cement near the surface to serve as a permanent magnetic monument of the well. In the alternative, a 41/2-inch or larger casing set in cement will extend at least 36 inches above the ground level. A combination of the methods outlined in paragraph (3) and (4) above may have to be used in a single well, depending upon the conditions of the hole and the presence of casings. The 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 § 75.1700 or the petitioner proceeds with an intent to cut through

a plugged well:

(1) Prior to reducing the safety barrier to a distance less than the District Manager would approve or proceeding with intent to cut through a plugged well, the petitioner will notify the District 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 that 50 feet from the well. When using longwall mining methods, drivage sights will be installed on 10-foot centers for a distance of 50 feet in advance of the well bore. 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 miningthrough operation.

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

(9) When mining is in progress, tests for methane will be made with a handheld methane 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, rockdusting 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 deenergized and the area thoroughly examined and determined safe before mining is resumed. Any well casing will be removed and no open flame will be permitted in the area until adequate ventilation has been established around the wellbore.

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

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 60 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: Hecla Greens Creek Mining Company, P.O. Box 32199, Juneau, Alaska 99803.

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

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

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

WR-35

State of West Virginia Division of Environmental Protection Section of Oil and Gas

API #: 47-091-01058

| | e. | | Well Operato | r's Re | port of \ | Well \ | | | .11 37- | . Themas | • |
|---------------------------|--|-----------|--|----------|--------------|-----------|----------------------------|------------|------------------------------|--------------|---------------------------------|
| Farm Name: | Polhemus, M | | atherin | . 1 . | | | | | | : Thomas2 | |
| LOCATION | Elevation: | 1712 | | | Qu | adran | igle: _ | Thornt | 0 1 1 | · · · · · · | |
| | District: | Knotts | rilte | | ¢ | unty: | | Taylor | | | ····· |
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| | | | | | ** | | : 4 | | | | 4*** 1415 |
| Company: | JACK PROD P. O. BOX 69 INDIANA, PA | 7 | | | * * * | | en C | | | | K H ft |
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| Inspector: | | | Bill Ha | | | | asing and | Dril | | in Well | Fill Up |
| Permit Issue | ed: | | 12/16 | 5/2004 | • | Т | ubing | | | | sks |
| Well Work | Commenced: | | 3/24 | /2005 | | 1 | 1 3/4 | 2 | 2 | 22 | |
| Well Work | Completed: | | 4/2 | 2/2005 | | | 8 5/8 | 70 | 95 | 795 | 225 |
| Verbal Plug Permission | T | 200000 | | | | - | 1/2 | +-" | | 5364.25 | 230 |
| Rotary X | Cable | Rig | 1 | | : | L | + 1/2 | | | 1 3304.23 | |
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| Salt Water l | | CVADO | | None | - | | 800 | | | | MADI |
| | g mined in area | (Y/N)? | 357-361; 68 | N 600 | - | | | | | | MAR' (|
| Coal Depth | (II): | | 33/-301; 00 | 12-070 | • • • | | 3 * | | | F- | MAY & " |
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| Drodu | ing formation | 4th Elk: | 3rd Elk | | Day | u zane | depth | (A) 50 | 94-52 | 94; 4984-499 | |
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| Gus. | Final open fle | | | MCF/c | | | | en flow | | 0 | Bbl/d . |
| | 95 | | Time of o | open flo | w betwee | n initia | al and fi | nal tests | | NA | Hours |
| Static | rock pressure | | No test | _ psig | (sur | face | pressu | re) afte | r | NA | _ Hours |
| Second | d producing for | mation 1 | Rilev | | 5.* | Pay 2 | zone de | pth (ft) | 4048 | -4061 | |
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| | | | Time of o | open flo | w betwee | en initia | al-and fi | nal tests | | NA | Hours · |
| Static | rock pressure | | No test | psig | (surfac | ce p | ressure |) after | ~ | NA . | _ Hours |
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| | | | | | | | | | | l w | Department of mental Protect |
| | | | | For: | JAC | K PRO | DDUC | TION IN | ic. | Environ | IIIO I W |
| | | | | Ву: | Th | ar | y X | Jeru | do | V | |
| | | | | Date | e: /0/ | 19/ | 85 | | | | |
| | | | | | | | . 1 | | 5-65 | | 20 20 |

DETAILS OF PERFORATED INTERVALS. FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 47-091-01058

| Stage | T-Perf | B-Perf | Shots | Formation | 8 | Sand (Bbl) | Grade | Water (Bbl) | Poam (Bbl) | N2 (Cu F1) |
|-------|--------|--------|-------|-----------|---|------------|-------|-------------|------------|------------|
| • | 5094 | 5294 | 12 | 4th Elk | | 45,624 | 20/40 | 220 | 630 | 406,032 |
| , | 4984 | 4990 | 14 | 3rd Elk | | 40,888 | 20/40 | 232 | 548 | 307,159 |
| 3 | 4048 | 4061 | 14 | Riley | * | 38,588 | 20/49 | 205 | 501 | 288,233 |

| Port | | | | ,,, | WELL LO | G | ··· | 350 | |
|--|---|--------|-----------|-------------|---|---|-----|----------|----------------|
| Clay/Fillable | Formation | Color | Hard/Soft | Тор | | | | | 37 |
| 22 82 | | 2000 | | | 22 | | | | |
| Marie Mari | | | | | 82 | | | | |
| Same | | | 20 | | 357 | | | | |
| Schale 364 396 459 459 459 459 458 459 458 458 473 486 486 474 478 486 474 486 486 474 478 486 474 474 486 486 474 474 486 486 474 474 486 486 474 474 486 486 474 474 486 486 474 474 486 486 486 474 474 486 486 474 474 486 486 474 474 486 486 474 474 486 486 486 474 474 486 486 486 474 474 486 4 | | | | 357 | 361 | | | | |
| Salah | | | | 361 | 396 | | | * | |
| Sala | | | | 396 | 450 | | | | |
| Sand | | | | 450 | 458 | | | | ¥8 |
| Marie Mari | | | | 458 | 473 | | | | |
| Small | | | | 473 | 496 | | 0, | | ¥ |
| Sand | | | | 496 | 521 | | 702 | | |
| Sand | | | | 521 | 551 | | | | |
| RR 597 609 Sand 699 685 Cool 685 690 Sand 690 718 SA/Sh 718 733 Sand 733 829 SA/Sh 829 883 Sand 893 914 SA/Sh 914 1044 SA/Sh 1109 1265 Little Lline 1275 1380 SA/Sh 140 1409 SA/Sh 140 1499 RL/SA/Sh 140 1499 RR/SA/Sh 140 158 SA/Sh 140 158 SA/Sh 140 159 RR/SA/Sh 1518 1582 SA/Sh 1518 1582 SA/Sh 1518 1582 SA/Sh 1518 1582 SA/Sh 1629 1757 SA/Sh 1750 1760 SA/Sh 1750 1760 SA/Sh 1750 1760 SA/Sh 1750 1761 SA/Sh 1750 1762 SA/Sh 1750 1763 SA/Sh 1750 1750 1763 SA/Sh 1750 17 | | | | 551 | 597 | | | | |
| Sand | | | | 597 | 609 | | | | |
| Coal 690 718 Sand 690 718 Salish 718 733 Sand 733 829 SdiSh 819 883 Sand 883 914 SdiSh 914 1044 Salish 109 SdiSh 1109 1265 Little Llime 1265 1275 Big Llime 1275 1380 Sand white 1380 1480 SdiSh 1490 1518 SdiSh 1499 1518 SdiSh 1499 1518 SdiSh 1581 1582 1629 SdiSh 1582 1629 SdiSh 1582 1629 SdiSh 1757 1780 SdiSh 1780 1781 SdiSh 1780 1781 SdiSh 1780 1781 SdiSh 1780 1780 Gordon 1981 1993 SdiSh 1993 2317 SdiSh 1993 2317 SdiSh 1993 2317 U.Wurren 1981 1993 SdiSh 1993 2517 SdiSh 1993 2517 SdiSh 1993 2517 U.Wurren 1981 1993 SdiSh 1993 1960 SdiSh 1993 1996 SdiSh 1993 1996 SdiSh 1993 1960 SdiSh 1993 1996 SdiSh 1 | | | | 609 | 685 | | | | |
| Sand | | | | 685 | 690 | | | | |
| Salish 718 733 829 Sal/5h 819 883 Samd 983 914 Samd 1044 1109 Saf/5h 1109 1265 Saf/5h 1109 1265 Big Lime 1275 1380 Sand white 1380 1480 Sal/5h 1480 1499 RR/Sal/Sh 1489 1518 Sal/5h 1518 1582 L. Wete 1582 1627 Sal/5h 1518 1582 Sal/5h 1629 1757 Sal/5h 1629 1757 Sal/5h 1791 1981 Sal/5h 1791 1993 Sal/5h 1993 2317 MAR O I 2023 WV Department of marked per control Sal/5h 1933 2317 MAR O I 2023 WV Department of marked per control Sal/5h 2500 230 Sal/5h 310 < | | | | 690 | 718 | | | | * |
| Sand 733 829 Salish 819 883 Sand 983 914 Salish 914 1044 Sand 1044 1109 Salish 1109 1265 Little Lime 125 1275 Big Lime 1275 1380 Sand white 1380 1480 Salish 1480 1499 RIVSAISh 1489 1518 Salish 1518 1582 L. Welt 1582 1639 Salish 1518 1582 L. Welt 1582 1639 Salish 1757 1780 Salish 1757 | | | | 718 | 733 | | | | |
| \$435h \$19 \$83 \$914 \$945 \$145 \$145 \$145 \$145 \$165 \$145 \$165 \$165 \$165 \$165 \$165 \$165 \$165 \$16 | | | | | 829 | | | | ¥ |
| Sand 983 914 Sd/Sh 914 1004 Sd/Sh 914 1004 Sd/Sh 1109 1265 Little Liline 1265 1275 Big Lime 1275 1380 Sand white 1380 1480 Sd/Sh 1490 1518 Sd/Sh 1490 1518 Sd/Sh 1518 1582 L. Weir 1582 1629 Sd/Sh 1629 1757 Sh/Sd 1757 1780 Sd/Sh 1993 2317 Sd/Sh 1993 2317 Sd/Sh 1993 2317 MAR 0 1 2023 Sd/Sh 2500 WV Department of Environmental Protection Sd/Sh 2500 2750 U. Werren 2750 2763 Sd/Sh 3103 3150 Sd/Sh 3103 3150 Balltown-A 3150 3162 Sd/Sh 3199 3260 Balltown-B 3194 3199 Sd/Sh 3199 3260 Balltown-B 3194 3199 Sd/Sh 3273 3446 Sd/Sh 3273 3456 Sd/Sh 3199 3260 Balltown-B 3194 3199 Sd/Sh 3273 3456 Sd/Sh 3273 3456 Sd/Sh 3162 3194 Balltown-B 3194 3199 Sd/Sh 3273 3456 Sd/Sh 3273 3456 Sd/Sh 3273 3456 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3194 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3194 Balltown-C 3260 3273 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3190 3260 Balltown-C 3260 3273 Balltown-C 3260 3274 Balltown-C 3260 3274 Balltown-C 3260 3274 Bal | | | | | 883 | | | | |
| Saffsh 914 1044 Sand 1044 1109 Saffsh 1109 1166 Little Lime 1175 1380 Saffsh 1480 1499 RRJSJSSh 1490 1518 SAffsh 1518 1582 L. Weir 1582 1629 SAffsh 1780 1981 Office Of Oil and Gas SAffsh 1780 1981 SAffsh 1993 2317 SAffsh 1993 2317 SAffsh 2317 2353 SAffsh 250 2560 SAffsh 250 2500 Environmental Protection SAffsh 250 2760 U. Warren 2760 2763 SAffsh 3103 3150 SAffsh 3103 3100 SAffs | | | | | 914 | | | | |
| Sand 1044 1109 11 | | | | | | | | | |
| ### 1109 | | | | | | | | | |
| Little Lime | | | | | | | | | |
| Sand white 1275 1380 | | | | | | | | | |
| Sand white 1380 1480 Sal/Sh 1480 1499 RR/Sd/Sh 1499 1518 Sd/Sh 1518 1592 L. Wetr 1592 1629 Sd/Sh 1629 1757 St/Sd 1750 1780 Sd/Sh 1780 1981 Gerden 1981 1993 Sd/Sh 1993 2317 4th-C 2317 2353 MAR 0 1 2023 Sd/Sh 2353 2465 M. Bayard 2465 2590 Sd/Sh 2500 2530 Sd/Sh 2500 2530 Sd/Sh 2500 2750 L. Bayard 2500 2530 Sd/Sh 2750 L. Warren 2750 2763 Sd/Sh 3103 3150 Sd/Sh 3103 3150 Sd/Sh 3162 Sd/Sh 3193 3162 Sd/Sh 3194 Balltown-A 3150 3162 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3194 3195 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3194 3195 Sd/Sh 3199 3160 Balltown-C 3260 3273 Sd/Sh 3194 3195 Sd/Sh 3199 3160 Balltown-C 3260 3273 Sd/Sh 3194 3195 Sd/Sh 3199 3160 Balltown-C 3260 3273 Sd/Sh 3199 3190 Sd/Sh 3199 3160 Balltown-C 3260 3273 Sd/Sh 3199 3160 Balltown-C 3260 | | | | | | | | | |
| SAI/Sh 1480 1699 RR/SAI/Sh 1499 1518 SAI/Sh 1518 1582 L. Welr 1582 1639 SAI/Sh 1629 1757 SAI/Sh 1757 1780 SAI/Sh 1758 1993 SAI/Sh 1993 2317 SAI/Sh 1993 2317 SAI/Sh 2317 2353 SAI/Sh 2317 2353 MAR 0 1 2023 WV Department of Environmental Protection SAI/Sh 2500 2530 L. Bayard 2465 2500 SAI/Sh 2500 2750 U. Warren 2750 2763 SN/SA 2763 3070 Speechley 3070 3103 SAI/Sh 3103 3150 Balltown-A 3150 3162 SAI/Sh 3199 3260 Balltown-B 3194 3199 SAI/Sh 3199 3260 Balltown-C 3260 3273 SAI/Sh 3199 3260 Balltown-C 3260 3273 SAI/Sh 3194 3199 SAI/Sh 3103 3150 SAI/Sh 3104 3199 SAI/Sh 3105 3503 SAI/Sh 3106 4246 Benson 4446 4271 Balltown-C 3260 3273 SAI/Sh 3106 4246 Benson 4426 Benson 4426 | | bita | | | | | | | |
| RRINGWISH SAI/Sh SAI/Sh 1518 1582 L. Weir 1582 1629 1757 1780 SAI/Sh 1780 1981 1993 SAI/Sh 1780 1981 1993 SAI/Sh 1981 Office Of Oil and Gass RECEIVED Office Of Oil and Gass RECEIVED Office Of Oil and Gass AMAR 0 1 2023 WV Department of Environmental Protection SAI/Sh 12530 SAI/Sh 12500 2500 SAI/Sh 12500 2500 WV Department of Environmental Protection Environmental Protection SAI/Sh 1250 1250 SAI/Sh 1250 1250 SAI/Sh 1360 13103 SAI/Sh 13104 SAI/Sh 13104 SAI/Sh 13107 3416 3416 3416 3417 3416 3417 3416 3417 3416 3417 3416 3417 3417 3418 | | Willie | | | | | | | |
| Sal/Sh | | | | | | | | | 20 |
| L. Weir 1582 1629 | 140-200-01-01-01-01-01-01-01-01-01-01-01-01-0 | | | | | | | | |
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| Sh/Sd Sd/Sh | | | | | | | | | |
| Sal/Sh Gordon 1981 1993 Sal/Sh 4th-C 2317 Sal/Sh 2353 MAR 0 1 2023 MAR | | | | | | | | | |
| Gordon 1981 2317 8d/Sh 1993 2317 4th-C 2317 2353 MAR 0 1 2023 8d/Sh 2353 2465 WV Department of Environmental Protection Sd/Sh 2500 2530 WV Department of Environmental Protection Sd/Sh 2560 2750 WV Department of Environmental Protection Sd/Sh 2763 3070 3103 Sh/Sd 2763 3070 3103 Sd/Sh 3103 3150 3162 Sd/Sh 3162 3194 3194 Balltown-B 3194 3199 3460 Balltown-C 3260 3273 3436 Sd/Sh 3273 3436 3503 Sd/Sh 3506 4246 4271 Beruson 4246 4271 4728 2nd Elk 4728 4742 4990 3rd Elk 4990 5150 5285 5d/Sh 5285 5297 5626 | | | | | | | | | Dron |
| ### Author | | | | | | | | Offic | CE OF CHIVED |
| ### Author | | | | | | | | | or Oil and Gas |
| M. Bayard Sd/Sh L. Bayard 2530 2530 L. Bayard 2530 2550 2550 L. Bayard 2530 2550 2550 U. Warren 2750 2763 Sh/Sd 3070 Speechley 3070 3103 Sd/Sh 3103 3150 Balltown-A 3150 3162 3194 Balltown-B 3194 3199 3260 Balltown-C 3260 3273 Sd/Sh 3103 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Beenson 4246 4271 Sd/Sh 271 4728 2nd Elk 4728 4742 8d/Sh 37d Elk 4742 4990 37d Elk 8d/Sh 4742 4990 5150 Sd/Sh | | | | 27/10/10/10 | | | | A | 110 |
| M. Bayard Sd/Sh L. Bayard 2530 2530 L. Bayard 2530 2550 2550 L. Bayard 2530 2550 2550 U. Warren 2750 2763 Sh/Sd 3070 Speechley 3070 3103 Sd/Sh 3103 3150 Balltown-A 3150 3162 3194 Balltown-B 3194 3199 3260 Balltown-C 3260 3273 Sd/Sh 3103 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Beenson 4246 4271 Sd/Sh 271 4728 2nd Elk 4728 4742 8d/Sh 37d Elk 4742 4990 37d Elk 8d/Sh 4742 4990 5150 Sd/Sh | | | | | | | | IV | TAR 01 2022 |
| L. Bayard 2550 2560 2750 Sd/Sh 2560 2750 2763 Sh/Sd 2763 3070 Speechley 3070 3103 Sd/Sh 3103 3150 Balltown-A 3150 3162 Sd/Sh 3194 3199 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3273 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Benson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | - 1 2023 |
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| U. Warren 2750 2763 Sh/Sd 2763 3070 Speechley 3070 3103 Sal/Sh 3103 3150 Balltown-A 3150 3162 Sal/Sh 3194 3199 Sal/Sh 3199 3260 Balltown-C 3260 3273 Sal/Sh 3273 3436 Rfley 3436 3503 Sal/Sh 3506 4246 Benson 4246 4271 Sal/Sh 4271 4728 2nd Elk 4728 4742 Sal/Sh 4728 4742 Sal/Sh 4728 4742 Sal/Sh 4728 4742 Sal/Sh 476 4990 317d Elk 4990 5150 Sal/Sh 4990 5150 Sal/Sh 410 4728 4990 Sal/Sh 4990 5150 Sal/Sh 4990 5150 Sal/Sh 4990 5150 Sal/Sh 4990 5150 Sal/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | rotection |
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| Balitown-A Sa/Sh Balitown-B Sa/Sh Balitown-C Sa/Sh Balitown-C Sa/Sh Sa/Sh Sa/Sh Sa/Sh Sa/Sh Associated At 246 Benson Associated At 271 Sa/Sh Associated At 272 Sa/Sh Associated At 273 Sa/Sh Associated At 274 Sa/Sh Associated At 274 Associate | | | | | | | | | |
| Sd/Sh 3162 3194 Balltown-B 3194 3199 Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3273 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Bernson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | |
| Balltown-B Sd/Sh Sd/Sh Balltown-C 3260 3273 Sd/Sh Rfley 3436 3503 Sd/Sh 3506 4246 Benson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 3rd Elk Sd/Sh 4742 4990 3rd Elk 490 5150 5285 44h Elk 5285 5297 5626 Haverty 5626 5634 | | | | | | | × * | | • |
| Sd/Sh 3199 3260 Balltown-C 3260 3273 Sd/Sh 3273 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Bertson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | Sd/Sh | | | | | | | *. | |
| Balltown-C Sd/Sh Sd/Sh 3273 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Benson 4246 4271 Sd/Sh 2nd Elk 4728 4742 Sd/Sh 3rd Elk 4728 4742 4990 3rd Elk 4728 4742 4990 3rd Elk 5285 5297 Sd/Sh 40+ Elk 5285 5297 5626 Haverty 5626 5634 | Balltown-B | | | | | | | 9 | |
| Sd/Sh 3273 3436 Rfley 3436 3503 Sd/Sh 3506 4246 Bettson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | Sd/Sh | | | | | | | | |
| Riley 3436 3503 Sd/Sh 3506 4246 Bertson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | Balltown-C | | | | | | | | |
| Sd/Sh 3506 4246 Berson 4246 4271 Sd/Sh 4271 4728 2nd Elk 4728 4742 Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | Sd/Sh . | | | | | | | | 849 |
| Berson 4246 4271 8d/Sh 4271 4728 2nd Elk 4728 4742 8d/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 8d/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | |
| 8d/Sh 4271 4728 2nd Elk 4728 4742 8d/Sh 4742 4990 3rd Elk 4990 5150 8d/Sh 5150 5285 4th Elk 5285 5297 8d/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | |
| 2nd Elk 4728 4742 8d/Sh 4742 4990 3rd Elk 4990 5150 8d/Sh 5150 5285 4th Elk 5285 5297 8d/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | |
| Sd/Sh 4742 4990 3rd Elk 4990 5150 Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | | | | | | | | | |
| 3rd Elk 4990 5150 5d/Sh 5150 5285 4th Elk 5285 5297 8d/Sh 5297 5626 Haverty 5626 5634 | 2nd Elk | | , | | | | | | |
| Sd/Sh 5150 5285 4th Elk 5285 5297 Sd/Sh 5297 5626 Haverty 5626 5634 | Sd/Sb | | | | | | | | |
| 4th Elk 5285 5297 8d/Sh 5297 5626 Haverty 5626 5634 | 3rd Elk | | | | | | | | |
| 8d/Sh 5297 5626 Haverty 5626 5634 | Sd/8h | | | | | | | | |
| Haverty 5626 5634 | 4th Elk | | | | | | | | |
| marco) | Sd/Sh | | | | | | | | |
| | Haverty | | | | | | | | |
| Sh/8d 5634 5850 1D | | | | | | | | | |

Select datatypes: (Check All) Stratigraphy Logs Production Plugging Sample
Btm Hole Loc

Select County:

(091) Taylor

<

mit-Numbering Series

Pay/Show/Water Information:
API CMP DT ACTIVITY P
4709101058 4/2/2005 Water F
4709101058 4/2/2005 Water F
4709101058 4/2/2005 Pay
4709101058 4/2/2005 Pay
4709101058 4/2/2005 Pay
G
4709101058 4/2/2005 Pay
G
4709101058 4/2/2005 Pay
G API
Production Gas Informal
API
API
API
1709101058 Berry Energy C
4709101058 Berry Energy C
4709101058 Berry Energy C
4709101058 Berry Energy, II
4709101058 Berry Energy, II There is no Bottom Hole Location data for this well API COUNTY PERMIT TAX DISTRICT QUAD_75 QUAD_15 LAT DD LON_DD UTME UTMN 4709101058 Taylor 1058 Knottsville Thornton Thornton 39.315012 -79.91437 593589.5 4352296.5 Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST_FMT

4709101058 4/2/2005 3/24/2005 1712 Ground Level Hiram Greenland Gap Fm Haverty 01058 Berry Energy, Inc.
01058 Berry Energy, Inc. Gas Information: (Volumes in Mcf) PRODUCING OPERATOR
Berry Energy Consultants & Managers, Inc.
Berry Energy Consultants & Managers, Inc. PRODUCT
Fresh Water
Fresh Water
Gas
Gas
Gas STATUS Completed Enter Permit #: 01058 section
or Vertical
or Vertical
Vertical
Vertical
Vertical Get Data SURFACE_OWNER
Mark/Katherine Polhe PRD DEPTH_TOP FM_TOP Reset 4048 4984 5094 ANN GAS 8 Elk 4 Elk 4 Greenland Gap Fm 21,245 26,601 15,275 14,541 14,272 9,476 WELL_NUM CO_NUM_LEASE_LEASE_NUM_MINERAL_OWN_OPERATOR_AT_COMPLETION_PROP_VD_PROP_TRGT_FM_TFM_EST_PR 2 Thomas 2 Walter H Thomas Jack Production, Inc. Well: County = 91 Permit = 01058 Link to all digital records for well Location
Owner/Completion
Pay/Show/Water 1,363 DEPTH_BOT 60 735 4061 4990 5294 INITIAL_CLASS FINAL_CLASS TYPE
Development Well Development Well Gas 1,649 1,435 1,724 1,315 1,403 T FM_BOT

0 Pennsylvanian System

5 Pennsylvanian System Greenland Gap Fm AUG 1,991 1,772 G_BEF SEP 2,401 4,547 1,776 G_AFT O_BEF O_AFT WATER_QNTY Rotary Fractured 2.117 2.609 1.093 1.214 1.712 534 **TVD** 5850 TMD NEW_FTG KOD G_BEF G_AFT O_BEF O_AFT NGL_BEF NGL_AFT P_BEF TI_BEF P_AFT TI_AFT BH_P_I 5850 846

API
PRODUCING OPERATOR
4709101058 Berry Energy Consultants & Managers, Inc.
4709101058 Berry Energy Consultants & Managers, Inc.
4709101058 Berry Energy, Inc. Production NGL Information: (Volumes in EAPI PRODUCING OPERATOR PRD YEA 4709101058 Berry Energy, Inc. 20 2709101058 Production Oil Information: (Volumes in Bbl) PRD_YEAR 2006 * some NN_NGL JAN FEB MAR A ANN OIL ay have reported | L JAN FEB MAR A 5 0 0 1,445 6 0 0 2,476 5 0 0 1,245 R APR MAY JUN J N JUL AUG NGL SEP 0 0 0 0 NO NO DCM

API 4709101058 4709101058 Production Water Information: (Volumes in Gallons) Stratigraphy Information: PRODUCING_OPERATOR PRD_YEAR
Berry Energy, Inc. 2016
Berry Energy, Inc. 2021 SUFFIX D_YEAR ANN_NGL J 2013 0 2014 0 2015 0 2016 0 2021 0 ANN_WTR JAN FEB MAR APR MAY N JUL AUG SEP OCT NOV DCM

API4709101058
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4709101058 38 Original Loc unidentified coal V 58 Original Loc unidentified coal V 58 Original Loc Little Lime V 58 Original Loc Big Lime V 58 Original Loc Greenbrier Group V 58 Original Loc Lo Weir V FM_QUALITY DEPTH_TOP D

I Well Record 357 R

I Well Record 685 R

Well Record 1265 R

Well Record 1275 R

Well Record 1275 R

Well Record 1275 R

Well Record 1582 R
 OP DEPTH_QUALITY THICKNESS TI

 4 R
 4 R

 57 Reasonable
 5 R

 85 Reasonable
 10 R

 75 Reasonable
 10 R

 75 Reasonable
 0 R

 76 Reasonable
 0 R

 77 Reasonable
 0 R

 78 Reasonable
 0 R

 78 Reasonable
 0 R

 79 Reasonable
 0 R

 70 Reasonable
 0 R

 76 Reasonable
 0 R

 77 Reasonable
 0 R

 78 Reasonable
 0 R

 79 Reasonable
 0 R

 70 R
 0 R

 82 R
 0 R

 82 R
 0 R

 82 R
 0 R

 83 R
 0 R

 84 R
 0 R

 85 R
 0 R

 86 R
 0 R

 87 R
 0 R
 S THICKNESS_QUALITY I
4 Reasonable
5 Reasonable
10 Reasonable
15 Reasonable Ostrible Pick 7 Reasonable Ground Level

Report Time: Tuesday, March 14, 2023 9:20,20 AM 7 1 7 / 2023

| 4709101058 | Original Loc | Gordon |
|------------|--------------|-----------|
| 4709101058 | Original Loc | Fourth |
| 4709101058 | Original Loc | Bayard |
| 4709101058 | Original Loc | Bayard |
| 4709101058 | Original Loc | Warren |
| 4709101058 | Original Loc | Speechley |
| 4709101058 | Original Loc | Balltown |
| 4709101058 | Original Loc | Balltown |
| 4709101058 | Original Loc | Balltown |
| 4709101058 | Original Loc | Riley |
| 4709101058 | Original Loc | Benson |
| 4709101058 | Original Loc | EK |
| 4709101058 | Original Loc | EK |
| 4709101058 | Original Loc | E |
| 4709101058 | Original Loc | Haverty |

Wireline (E-Log) Information:
* There is no Scanned/Paper Log data for this well

* There is no Digitized Log data for this well

* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

| Ground Level | 71/12 | 12 Reasonable | 35 Reasonable | Well Reco | T | mail oc |
|-------------------|-------|----------------|-----------------|-------------|-------------------|--------------|
| Ground Level | 1717 | 160 Keasonable | 30 Reasonable | Well Reco | Ę | inal Loc Elk |
| Ground Level | 21/12 | 14 Keasonable | 28 Reasonable | Well Reco | EK | inal Loc |
| Ground Level | 7171 | 25 Keasonable | 6 Reasonable | Well Recor | Benson | inal Loc |
| 1/12 Ground Level | 1/12 | 67 Reasonable | 3436 Reasonable | Well Record | Riley | inal Loc |
| Ground Level | 1712 | 13 Reasonable | 0 Reasonable | Well Recor | inal Loc Balltown | inal Loc |
| Ground Level | 1712 | 5 Reasonable | 34 Reasonable | Well Recor | Balltown | inal Loc |
| Ground Level | 1712 | 12 Reasonable | 0 Reasonable | Well Recor | Balltown | inal Loc |
| Ground Level | 1/12 | 33 Reasonable | 70 Reasonable | Well Recor | Speechley | inal Loc |
| Ground Level | 1712 | 13 Reasonable | 0 Reasonable | Well Recor | Warren | inal Loc |
| Ground Level | 1/12 | 30 Reasonable | 10 Reasonable | Well Recor | Bayard | inal Loc |
| Ground Level | 1/12 | 35 Reasonable | 5 Reasonable | Well Recor | Bayard | inal Loc |
| Ground Level | 1/12 | 36 Reasonable | 7 Reasonable | Well Recor | Fourth | inal Loc |
| Ground Level | 1712 | 12 Reasonable | 11 Reasonable | Well Recor | inal Loc Gordon | inal Loc |

WW-4A Revised 6-07

| 1) Date: January 25, | 2023 | | |
|-------------------------------------|------|-----------|--|
| 2) Operator's Well Num Thomas #2 | ber | | |
| 3) API Well No.: 47 - | 91 | 01058 | |

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

| Surface Owr (a) Name | Mark A. & Katherine M. Po | lhemus | Name | CoalQuest Development, LLC |
|---|--|---|--|---|
| Address | 14203 Rogers Ford Rd | | - Address | 100 Tygart Drive |
| Muuross | Sumerduck, Virginia 22742 | 2 | _ | Grafton, West Virginia 26354 |
| (b) Name | | | (b) Coal O | wner(s) with Declaration |
| Address | | | Name | |
| Address | 0 | | - Address | |
| | | | _ | |
| (c) Name | | | Name | |
| Address | · · · · · · · · · · · · · · · · · · · | | - Address | |
| radrobb | | | _ | |
| C) T | Com Word | | - (a) Cool I o | ssee with Declaration |
| 6) Inspector | Sam Ward | | _ (c) Coar Le | ssee with Declaration |
| Address | P.O. Box 2027 | | - Address | |
| m 1 1 | Buckhannon, WV 26201 | | _ Address | |
| Telephone | (304) 389-7583 | | | |
| well in (2) The part of the reason | ts and the plugging work plat (surveyor's map) show | order; and wing the well location ts is that you have rig | on on Form WW-6. | h sets out the parties involved in the work and describes the ication which are summarized in the instructions on the reverses side. |
| well i (2) The p The reason However, y Take notice accompany | ts and the plugging work plat (surveyor's map) show you received these document ou are not required to take an that under Chapter 22-6 of ing documents for a permit to | order; and wing the well location its is that you have rig y action at all. the West Virginia Code to plug and abandon a very serior of the control of the | on on Form WW-6. this regarding the apple, the undersigned well with the Chief of the | ication which are summarized in the instructions on the reverses side. I operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental |
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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 depprivacyoffier@wv.gov.



Office Of Oil and Gas

MAR 0 1 2023

WV Department of Environmental Protection

A Subsidiary of



ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

February 24, 2023

Mark A. and Katherine M. Polhemus 14203 Rogers Ford Road Sumerduck, Virginia 22742

Re: Plugging Permit - API # 47-91-01058 - Well No. Thomas #2

Dear Mr. and Mrs. Polhemus:

As required by the permit process of the WV Department of Environmental Protection – Office of Oil and Gas enclosed please find a copy of the plugging permit application for the above referenced well that ICG Tygart Valley, LLC plans to submit on behalf of Berry Energy, Inc. 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 gnair@archrsc.com.

Sincerely,

Greg Nair

Manager Surface Mine Planning

Enclosures

Office Of Oil and Gass

MAR 01 2023

WV Department of Environmental Protection

CERTIFIED MAIL NO. 7021 1970 0000 0908 4147 RETURN RECEIPT REQUESTED

SURFACE OWNER WAIVER

Operator's Well Number

| Thomas #2 | |
|-----------|--|
| | |

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

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

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

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

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

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

The Chief has the power to deny or condition a well work permit based on comments on the 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;
- Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- The proposed well work fails to protect fresh water sources or supplies;
 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 seekapeview 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 request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION 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.

| | | | olanned wo | rk described in these materials, and I have no |
|---|------|--------|------------|--|
| objection to a permit being issued on the FOR EXECUTION BY A NATURAL PRETC. | | rials. | | FOR EXECUTION BY A CORPORATION, |
| | Date | | Name | |
| Signature | _ | | Ву | |
| | | | Its | Date |

WW-4B

| API No. | 47-91-01058 | |
|-----------|---------------------------|--|
| Farm Name | Mark & Katherine Polhemus | |
| Well No. | Thomas #2 | |

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.

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 LLOSED GOSS
Office Of 1 2023

Secretary

STATE OF MISSOURI) ss COUNTY OF ST. LOUIS)

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

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

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

lotary Public

My Commission Expires: 11/8/2024

Office Of Oil and Gas

MAR 01 2023

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

| API Number 4 | 7 - 091 | _ 01058 | |
|-----------------|--------------------------|---------|--|
| Operator's Well | The second second second | nas #2 | |

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| PLOIDS COTTINGS 2222 | |
|--|--|
| Operator Name Berry Energy, Inc. | OP Code |
| Watershed (HUC 10) Tributary of Little Sandy Creek | Quadrangle Thornton (638) |
| Do you anticipate using more than 5,000 bbls of water to comple | te 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: | |
| Land Application (if selected provide | a completed form WW-9-GPP) |
| | Number) |
| Reuse (at API NumberOff Site Disposal (Supply form WW | -9 for disposal location) |
| Other (Explain Tanks - See attached I | etter |
| 20.130 | |
| Will closed loop systembe used? If so, describe: Yes, Gel circu | lated from tank thru well bore ad returned to tank. |
| Drilling medium anticipated for this well (vertical and horizonta | |
| -If oil based, what type? Synthetic, petroleum, etc | -CEIVED GRS |
| Additives to be used in drilling medium? Bentonite, Bicarbonate of | r Soda 01 2023 |
| Drill cuttings disposal method? Leave in pit, landfill, removed of | |
| -If left in pit and plan to solidify what medium will be | 1,300 |
| -Landfill or offsite name/permit number? ICG Tygart Va | |
| | |
| Permittee shall provide written notice to the Office of Oil and G West Virginia solid waste facility. The notice shall be provided where it was properly disposed. | as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose |
| | |
| on April 1, 2016, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based on | onditions of the GENERAL WATER POLLUTION PERMIT issued that the injury term or condition of the general permit and/or other applicable law examined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for o btaining e, and complete. I am aware that there are significant penalties for imprisonment. |
| (1-i)(1) | OFFICIAL SEAL NOTARY PUBLIC |
| Company Official Signature Alarred O. Surre Company Official (Typed Name) David B. Berry | Wayne W. Hamilin |
| | 1418 Petrinian Avenue Clarksburg WV 26301 My Commission Explase October 17, 2028 |
| Company Official Title President | My Lommission Expirae October 17, 2028 |
| Subscribed and sworn before me this 25 TH day of Ja | nuary, 20_23 |
| BY DAVID B. BERRY, PRESIDE | Notary Public Wayne W. Hamlin |
| My commission expires October 17,2026 | |





Berry Energy, Inc. Proudly Serving the Appalachian Basin

Berry Energy, Inc., 310 Stiles Street, Clarksburg, WV 26301

January 27, 2023

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

To Whom It May Concern:

As per the WV Department of Environmental Protection, Office of Oil and Gas request, Berry Energy, Inc., 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), Berry Energy, Inc., 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 WVDEP impoundment facilities O-2017-06 or to an approved facility that can handle the material.

Sincerely,

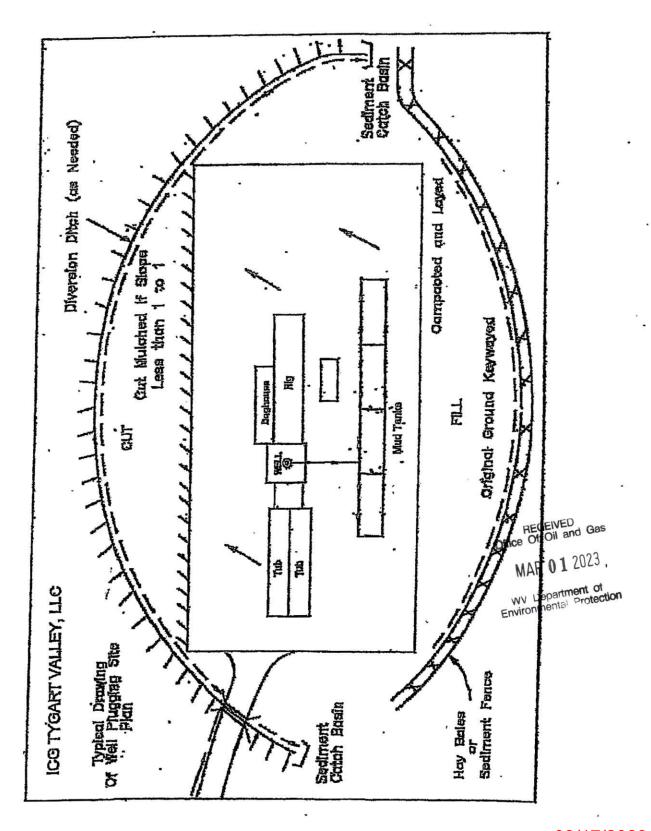
David B. Berry President Office Of Oil and Gas

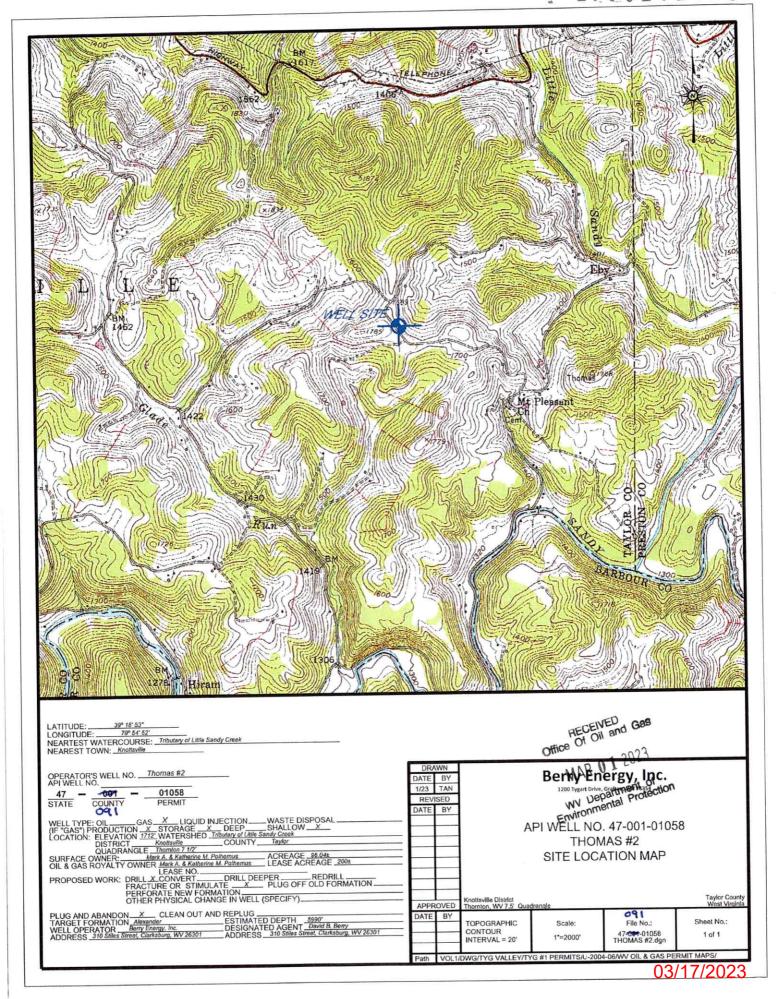
MAR 0 1 2023

WV Department of Environmental Protection



| | 1 | | | |
|---|--|--|--|--|
| roposed Revegetation Treatm | | | pH | |
| Lime 3 | Tons/acre or to correc | t to pH 6.5 | | |
| Fertilizer type 10-20 | 0-20 or equivalent | | | |
| Fertilizer amount 500 lbs/acr | | lbs/acre | | |
| Mulch_ Hay Bales | | _Tons/acre | | |
| | | Seed Mixtures | | |
| Ten | nporary | Per | 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 | |
| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t | oit will be land applied, pr he land application area. | d application (unless engineered plans in- ovide water volume, include dimensions | cluding this info have been (L, W, D) of the pit, and din | |
| provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv | oit will be land applied, prince he land application area. | | cluding this info have been (L, W, D) of the pit, and din | |
| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv | oit will be land applied, pr he land application area. | | cluding this info have been (L, W, D) of the pit, and din | |
| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv | th Greynolds Open 1971 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | evycots empired Kennari, L. empired Kennari, L | cluding this info have been (L, W, D) of the pit, and din | |
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| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv Kenne Plan Approved by: | th Greynolds Open 1971 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | eyrods email Kensen, L email of Modern College Gas W | Office Of Oil and Gas MAR 0 1 2023 | |
| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv Kenne Plan Approved by: | th Greynolds Open signed by Kennen Open Sold Color Street Color Color Sold Color Repetition Color Color Repetition Color Color Repetition Color Color Repetition Color C | eyrods email Kensen, L email of Modern College Gas W | Office Of Oil and Gas MAR 0 1 2023 | |
| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv Kenne Plan Approved by: | th Greynolds Open signed by Kennen Open Sold Color Street Color Color Sold Color Repetition Color Color Repetition Color Color Repetition Color Color Repetition Color C | eyrods email Kensen, L email of Modern College Gas W | Office Of Oil and Gas MAR 0 1 2023 | |
| Maps(s) of road, location, pit provided). If water from the p (L, W), and area in acres, of t Photocopied section of involv Kenne Plan Approved by: | th Greynolds Source 2023 02 271 4 46 17 -26 | eyrods email Kensen, L email of Modern College Gas W | Office Of Oil and Gas MAR 0 1 2023 WV Department of Environmental Protection | |





WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

| WELL | OCILIZOT, I SILLING | |
|--|---|---|
| API: 47-091-01058 | WELL NO.: | omas #2 |
| FARM NAME: Mark & Katherine P | | |
| RESPONSIBLE PARTY NAMI | Berry Energy, Inc. | |
| | DISTRICT: Knott | tsville |
| COUNTY: | DISTRICT | |
| QUADRANGLE: | | |
| SURFACE OWNER: Mark A. & | Ketherine M. Polhemus | |
| SURFACE OWNER: Mark A. & Berry E | nergy, Inc. ET AL | |
| UTM GPS NORTHING: 43522 | 277 | |
| UTM GPS FASTING, 593585 | GPS ELEVAT | TON: 1715.85' |
| preparing a new well location pla above well. The Office of Oil and the following requirements: 1. Datum: NAD 1983, Z height above mean se 2. Accuracy to Datum — 3. Data Collection Meth Survey grade GPS: Pos Rea Mapping Grade GPS: I | | API number on the res that do not meet eters, Altitude: VED and Gas 1 2023 artment of the protection of the res that do not meet eters. |
| I the undersigned, hereby certify belief and shows all the informat | this data is correct to the best of my tion required by law and the regulation | knowledge and |
| prescribed by the Office of Oil a | nd Gas. | |
| Down B Cherry | President | January 25, 2023 |
| Signature | Title | Date |



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

Plugging permit issued 4709101058

1 message

Kennedy, James P <james.p.kennedy@wv.gov> Tue, Mar 14, 2023 at 2:25 PM To: "Duckworth, Charles" <cduckworth@archrsc.com>, Kenneth L Greynolds <kenneth.l.greynolds@wv.gov>, ckinsey@wvassessor.com, Samuel D Ward <samuel.d.ward@wv.gov>

To whom it may concern a plugging permit has been issued for 4709101058.

James Kennedy

WVDEP OOG

2 attachments



ir-8 4709101058.pdf 120K



4709101058.pdf 5586K