

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

Wednesday, September 27, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

EOT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for RADCLIFF 8H

47-049-02518-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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

Operator's Well Number: RADCLIFF 8H

Farm Name: JACKIE D & SHIELA D RAD

U.S. WELL NUMBER: 47-049-02518-00-00

Horizontal 6A New Drill

Date Issued: 9/27/2023

Promoting a healthy environment.

PERMIT CONDITIONS 4704902513

West Virginia Code § 22-6A-8(d) 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

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE).
 Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 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. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief
 or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

| API NO. 47-7 | 0 | 4 | 9 | 0 | 2 | 5 | 1 | 3 _ |
|--------------|-----|----|------|------|---|---|---|--------|
| OPERATOR | | | | | | | | _ |
| Well Pad N | lam | ю. | Rado | liff | | | | |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

| 1) Well Operator: | EQT Produc | ction Company | 306686 | Marion | Mannington | Glover Gap |
|---|----------------|-----------------------|-----------------------|------------------|----------------|---------------------|
| , -F | | <u> </u> | Operator ID | County | District | Quadrangle |
| 2) Operator's Well | Number: 8H | | Well Pac | i Name: Rad | lcliff | |
| 3) Farm Name/Sur | face Owner: | Jackie D. & Sheila L. | Radcliff Public Roa | d Access: CI | R 4/4 | |
| 4) Elevation, curre | nt ground: | 1,493' (built) E | levation, proposed | post-construc | etion: 1,493' | |
| , |) Gas X | Oil | Unde | erground Stor | rage | <u> </u> |
| |)If Gas Shall | llow X | Deep | | | |
| 6) Existing Pad: Y | | | _ | _ | | |
| · • | t Formation(s) | , Depth(s), Antic | cipated Thickness a | and Expected | Pressure(s): | |
| 8) Proposed Total | Vertical Depth | n: 7,916' | | | | |
| 9) Formation at To | | | s | | | |
| 10) Proposed Tota | l Measured De | epth: 23,423' | | _ | | <u> </u> |
| 11) Proposed Hori | zontal Leg Le | ngth: 14,825' | | | . | · |
| 12) Approximate I | Fresh Water St | trata Depths: | 460', 490', 621', | 751' | | |
| 13) Method to Det | ermine Fresh | Water Depths: | Offset Wells - 049-02 | 2184, 049-0069 | 9, 049-00168, | 049-30339, 049-3023 |
| 14) Approximate S | Saltwater Dept | ths: 1,856', 2,12 | 27', 2,247' | | | |
| 15) Approximate (| Coal Seam Dep | pths: 1,200'-1,2 | 06', 1,297'-1,304' | | | |
| | | | oine karst other): | N/A | nd Gas | |
| 17) Does Proposed directly overlying | | | | Office of Oil an | g62 <u>3</u> × | |
| (a) If Yes, provide | de Mine Info: | Name: | | W Departr | nent of | |
| | | Depth: | | Environmental | | |
| | | Seam: | | | | |
| | | Owner: | | | | |

WW-68 (04/15) API NO. 47-____OPERATOR WELL NO. 841
Well Pad Name: Radcaff

18)

CASING AND TUBING PROGRAM

| ТҮРЕ | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|--------------|-------------------|----------------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|
| Conductor | 26 | New | A252 GR 3 Bare | 85.6 | 40 | 40 | 50 ft^3 / CTS |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 1354 | 1354 | 1230 ft^3 / CTS |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | New | J-55 | 36 | 2721 | 2721 | 1050 ft^3 / CTS |
| Production | 6 | New | P-110 | 24 | 23423 | 23423 | 500' above intermediate casing |
| Tubing | | | | | | | |
| Liners | | | | | <u>-</u> | | |

Randall M. Kirchberg Signed by Randall M. Kirchberg Chate: 2023.08.18 10:43:11 -04'00'

| ТҮРЕ | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|---------------------------|-------------------------|--|----------------|--------------------------------|
| Conductor | 26 | 30 | 0.312 | 1000 | 18 | Class A/L | 1.04 - 1.20 |
| Fresh Water | 13 3/8 | 17 1/2 | 0.380 | 2730 | 2184 | Class A/L | 1.04 - 1.20 |
| Coal | | | - | | | | |
| Intermediate | 9 5/8 | 12 3/8 | 0.352 | 3520 | 2816 | Class A/L | 1.04 - 1.20 |
| Production | 6 | 8 1/2 | 0.400 | 14580 | 11664 | Class A/H/L | 1.04 - 2.10 |
| Tubing | | | - | | | | |
| Liners | " | | | | | | |

| | <u>PACKERS</u> | Office of Oil and Gas AUG 2 2 2023 |
|-------------|----------------|---|
| Kind: | | August Department of |
| Sizes: | | WV Department of Environmental Protection |
| Depths Set: | | |

OPERATOR WELL NO. 8H

| Well Pad | Name: | Radclif | f |
|----------|-------|---------|---|
| weirad | name: | Raddill | τ |

| | 19) | Describe 1 | proposed | well work | c, including | the drilling | and plugging | back of an | y pilot hole |
|--|-----|------------|----------|-----------|--------------|--------------|--------------|------------|--------------|
|--|-----|------------|----------|-----------|--------------|--------------|--------------|------------|--------------|

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.33 (built)
- 22) Area to be disturbed for well pad only, less access road (acres): 5.19 (built)
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers- One centralizer at the shoe and one spaced every 500'.
- · Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder,

Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Office of Oil and Ges

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Surface: Circulate hole clean while rotating & reciprocating the drill string white difficultings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string fifty cuttings diminish at Environmental surface.

Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

^{*}Note: Attach additional sheets as needed.

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Radeliff GLO176 S-000118

Drilling Objectives:

Elevation: Recommended Azimuth Marcellus Marion

County: Quad: Glover Gap

1506 KB 149.5 Degrees 1493 GL

Recommended LP to TD: TBD

ESTIMATED FORMATION TOPS

| Formation | Top (TVD) | Base (TVD) | Lithology | Comments | Top RR Base R | R |
|------------------|-----------|------------|----------------------|--|-----------------|------|
| Fresh Water Zone | 1 | 906 | | FW (ii) 460,490,621,751, | 1118 | 1118 |
| Sewickley Coal | 1200 | 1206 Co. | al | | | |
| Pittsburgh Coal | 1297 | 1304 Co. | al | Not mined. TransEnergy reported depth at 1200' on 1H and 1 | 2H GL Elevation | |
| Big Lime | 2470 | 2543 Lin | nestone | SW @ .1856,2127,2247 | | |
| Big Injun | 2543 | 2671 Sar | ndstone | | | |
| Int. esg pt | 2721 | | | | | |
| Berea | 2786 | 3361 Sar | ndstone | Not shown within Storage | | |
| Gordon | 3361 | 3523 Silt | ty Sand | | | |
| Bayard | 3523 | 5964 Silt | ty Sand | Base of Offset Well Perforations at 5870' TVD | | |
| Alexander | 5964 | 6409 Silt | ty Sand | | | |
| Elks | 6409 | 7350 Gra | ay Shales and Silts | | | |
| Sonyea | 7350 | 7546 Gra | ay shale | | | |
| Middlesex | 7546 | 7600 Sha | ale | | | |
| Genesee | 7600 | 7699 Gri | ay shale interbedded | | | |
| Geneseo | 7699 | 7739 Bla | nck Shale | | | |
| Tully | 7739 | 7769 Lin | nestone | | | |
| Hamilton | 7769 | 7872 Gra | ay shale with some | | | |
| Marcellus | 7872 | 7949 Bla | ick Shale | | | |
| Purcell | 7916 | 7918 Lin | nestone | | | |
| -Lateral Zone | 7916 | | | MRC2 Target | | |
| Cherry Valley | 7929 | 7931 Lin | nestone | | | |
| Onondaga | 7949 | Lin | nestone | | | |

| Target Thickness | 78 feet | |
|-------------------------------|----------|--|
| Max Anticipated Rock Pressure | 2593 PSI | |

Comments:

Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands Intermediate casing should be cemented into the surface string, per WV regulations.

| RECO | DMME | NDED | CASI | NG | POIN' | rs |
|------|------|------|------|----|-------|----|
| | | | | | | |

| RECOMMENDED CAS | ING POINTS | | | Planned Depth GL | |
|------------------|------------|--------|-----------------|------------------|----------------------|
| Fresh Water/Coal | CSG OD | 13 3/8 | CSG DEPTH: | 1354 | 50' Below Pittsburgh |
| Intermediate 1: | CSG OD | 9.5/8 | CSG DEPTH: | 2721 | 50' Below Big Injun |
| Production: | CSG OD | 5 1/2 | CSG DEPTH: @ TD | | |

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WV Department of Environmental Protection

EQT Production Wellbore Diagram Well: Radcliff 8H County: Marion West Virginia State: Pad: Radcliff Elevation: 1493' GL 1506' KB <u>4704902518</u> Conductor @ 40' 26", 85.6, A252 GR3 Bare, cement to surface w/ Class A/L Surface @ 1,354' 13-3/8", 54.5#, J-55, cement to surface w/ Class A/L 2,721' Intermediate @ 9-5/8", 36#, J-55, cement to surface w/ Class A/L RECEIVED Office of Oil and Gas AUG 2 2 2023 W Department of Environmental Protection 23,423' MD / 7,916' TVD Production 6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L Formation: Marcellus 08/27972098ALE

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Radcliff

County: Marion

July 27, 2023

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Radcliff pad: 4H, 6H, 8H, 10H, 12H, 14H, 16H and 18H.

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

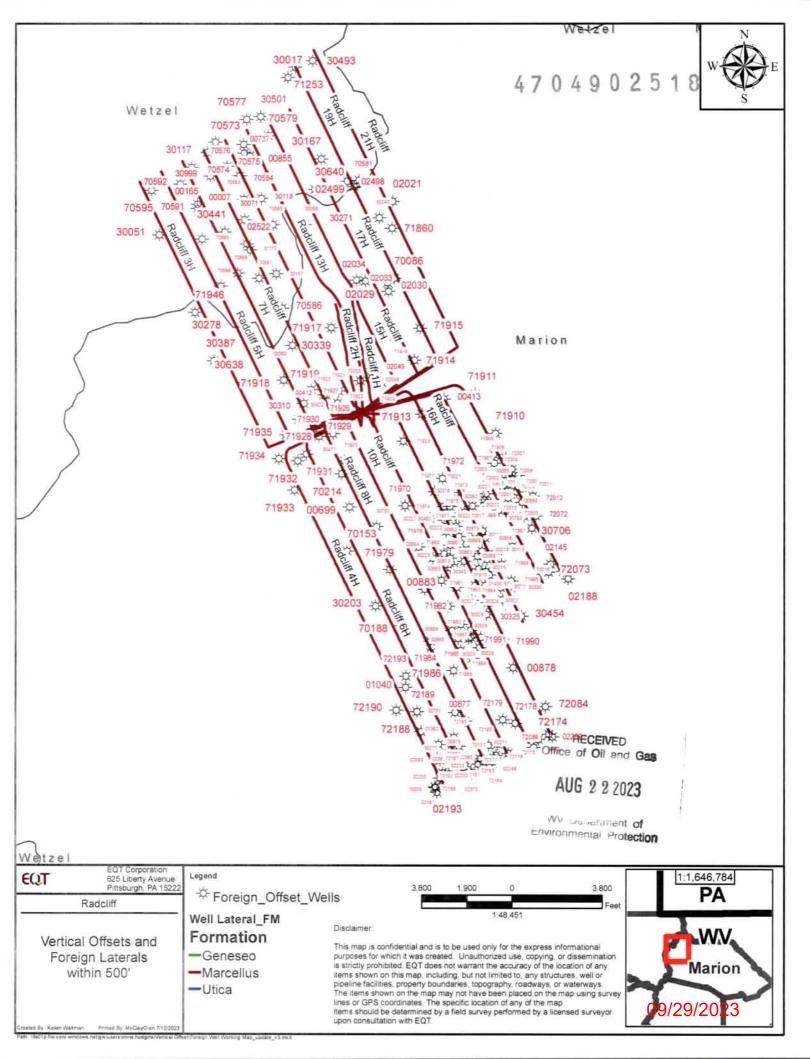
- Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- Inspect or install master valves or other necessary equipment for wellhead integrity capable
 of a pressure recommended by EQT
- Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the eyent of any noted abnormalities.

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| 556 5455) 1757 3 | | | | | | | | | | | |
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| 73/918 | 47 G49 71998 00 00 | IN/AI | DINID POPALO | UNREPORTED | | 915742740 | | 12.95.6494 TSTBAATED | | O O ALF KINDALI | SMAKERSHILL LINALPOKELD |
| 365.22 | 47 103 70577400 00 | CAPNEGE NARURAL GAS CO | UNREPORTED | | CARNIGII NASSRAI GAS | PI 6219990 | 80 4548740 | 1/09.0191 LSTIMATED | | US ZOGOMENICOMENTINA | UMARI PORTED UNREPORTED |
| 20101 | | | | | | | | | | | |
| | | OF LIMAR OIL I'O | COMPLETED | DRY HULE | CELMAR | 99 5478579 | | 0.0000 | | SHI HARES, A L15 | DR = HUNG = CMPULICU |
| 70716 | 47 049 70215 00 00 | KIRKI AND ET AL | UNREPORTED | | EURO AND FT AT | J7 5096284 | 60,4079658 | 0.0000 | | D.O. WARSTRAKEFF L | WHIRE PORTED LINRAPPORTED |
| 7 (9 (4) | 434)49 7] 9 8(4004)0 | • | UNREPORTED | | HOPE NATURAL GAS COMPANY | VF 5.2732 pit | - III) 1 (164 H II | TATASA OF ESTIMATED | | II I JACOB I MURKAY | WHEPORIED UNREPORTED |
| 0.5344 | | CONSOLIDATION COAL COMPANY | P&A | OTHER | CONSCINOATION COAL LONGEANY | J9 5448020 | | 1005.4050 ESTIMATED | 0.0 | 0.0 SNOOGRASS, DIANES 800 | OTHER P & A |
| 02748 | | CONSCIDENTATION COME COMPANY | P & A | OTHER | CONSOLIDATION COAL COMPANY | 19 5469670 | -80.41917H0 | 1196.4450 [STIMATIO | 0.0 | OH MILEMAN, JULIAREY 5139 | CHHIRP B.A. |
| 02522 | 47 103 02572 00 00 | CADC | PERMIT CANCELLED | GAS | C NE GAS CRIMPANY | J9 6075890 | 80.4550450 | 1199.5342 ESTIMATED | 0.0 | O.O. TRIMBIAY, LAUMER LLB | GAS PERMIT CANCELLED |
| /1982 | 47-049 /1987-00-00 | IN/AI | UNREPORTED | UNREPORTED | (N/A) | 89 546 r5 9 7 U | | 1855, 2014 ESTIMATED | 0.0 | 0.0 REGLECA WATSON | UMPREPORTED UNREPORTED |
| 20574 | 47-103-70574-00-00 | INVAL | UNREPORTED | UNPEPORILO | (N/a) | | 30,4607670 | 1419.6195 ESTIMATED | | 0.0 W F INSGINBOTHAM | INMENIATED-LINASPORTED |
| /1990 | 47 049-71990 00-00 | | UNREPORTED | UNREPORTED | | | -80.41/7240 | 1129.2202 ESTIMATED | | 0.0 Je CROUSER ET AL | CHARLE PORTED UNREPORTED |
| 72486 | 47-049-72186-00-00 | INA | UNREPORTED | UNREPORTED | | 39 5464020 | | 1002 6696 INDIANTED | | U.U. JUHIM BOARD | (AREPORTED UNREPORTED |
| | | DIVERSIFIED ENDROY | | | | | | | | | |
| 00879 | | | P # A | PHER | CHATEAUT DISSOLUCTURA | 395778710 | | 1326.5650 ISTIMATED | | BAI HAYES, E.E. HERRS 24 | OUHER-P & A |
| 72184 | 47-049-72184-00-00 | [R/A] | UMREPORTED | UNREPORTED | | P 5472780 | | TIGE SPES INTRACTED | | O O JAKK HAYS | UMPSEPORTED UNREPORTED |
| 72180 | | IN/A) | OHMEPON FLO | UNHEPORTED | (N/A) | 19 5496000 | 60.4193860 | 1073.4977 (STIMATED | | O.O. JACK HAYS | HAREPORTED-HNREPORTED |
| 00463 | | DIVERSIFIED ENERGY | P&A | OTHER | (NVERNIFIED PRODUKTION | 39.5894740 | | 1227.4450 ESTIMATED | | 0.0 BAKER, J. R. 271 | OTHER P& A |
| 71974 | 47-049-71974-00-00 | IN/A) | DAME BON LED | UNREPORTED | [N/A] | 39 577 1760 | 60.4252410 | 1445.0592 FSTIMATED | 0.0 | 0.0 SARAH HAYS | UNAE PORTED-UNAEPORTED |
| 30376 | 47-049-30-76-00-00 | SOUTH PENN ON (S. PENN NAT. GAS) | MACTIVE COMPLETED | OIL B GAS | SOLITH PENNIOL IS PERN WAT GAS) | 394371888 | 80.4249080 | 1435.6600 ACTUAL | 0.0 323 | 2.0 JW BATSON 5 | OIL & GAS INACTIVE COMPLETED |
| 70021 | 47-049-70071-00-00 | [#/A] | THE PURFEU | CHL | IN/AI | 39 5787 760 | 60.4233190 | 1285.8346 ESTIMATED | 0.0 252 | 10) | OIL-UNREPORTED |
| 2015.3 | 47 049 70153 00 00 | SQUTH PENN OIL IS, PENN NAT, ((AS) | CHARLPORTED | UNRCPURIED | SOUTH PENNIOU (S PENNINA GAS) | 39 5721060 | | ID46.9705 ESTIMATED | | 00 l | UMBEADRIED-UNREPORTED |
| 20118 | | PITTSBURGH & WV GAS | LOCKEPOR FED | GAS | PITTSBURGH & WY GAS | 39 6127570 | 60.4528430 | 1220.9396 ESTINATED | | 20 JUSTUANNE | GAS-UNREPORTED |
| 700.25 | 47 049-70035-00-00 | FREEHOLD OIL & GAS | UMALPORTEO | | PRESENCED ON & GAS | 39 5446990 | 50.4273550 | 1000.6053 ESTIMATED | 3978.0 | O.O. B.R. BOARD | GAS-UNREPCOTED |
| /2005 | | | | | | | | 1367.6/11 ESTIMATED | | O.O. J.W.BATSON | |
| | | and a | | WO | | | 80.4164740 | | | | |
| | 47 049 72005 00 00 | IM/A) | UNREPORTED | UNREPORTED | | J9 1400 /90 | | | | | UNIXEPORTED LINREPORTED |
| ZOSAL | 47-103-70581-00-00 | (A/A) | CHIREPORTED | UNREPORTED | INVAI | 39 6147790 | | MBS.906# ESTIMATED | 40 | AA AAURBEE & FAGNONER | UNA PORTED-UNALPORTED |
| 7058L 00699 | 47-303-7656140-00 47-049-00699-00-00 | (N/A) DIVERSIPED ENERGY | UNREPORTED UNREPORTED PRODUCING | ONREPORTED | IN/A] DIVERSALED PRODUCTION | 39 £147790 39 5772400 | 80.4396710 | MASSIONER ESTIMATED 1047.3650 ESTIMATED | 0.0 5652.0 565 | NA ATURBEE & LAGUCYFR 2.0 AMOS. J. D. 2 | UMMEPORTED-UNICEPORTED OIL & GAS PRODUCING |
| 7058 L 60699 60886 | 47-103-70581-00-00 47-049-00699-00-00 47-049-00886-00-00 | (M/A) DINERSIPED ENERGY DIVERSIPED ENERGY | OMMEPORTED MADDUCING *********************************** | UNREPORTED OIL & GAS OTNER | IN/A] ONERSHIED PRODUCTION DIVERSINED PRODUCTION | 39 6147790 39 577 2400 39 5628070 | 89.4396710 80.4247170 | 1435.9068 ESTIMATED 1047.3650 ESTIMATED 1259.5350 ESTIMATED | 0.0 5652.0 565 3040.0 304 | 0-0 A CURBEE & CA GLOVER 2.0 AMOS. J. D. 2 0.0 HAYES, 1.1. HERRS 36 | UMME PORTED-UNICIPORTED OIL & GAS PRODUCING OTHER P & A |
| 70581 00699 00886 50220 | 47-101-705\$1.40-00 47 049-00699 00 00 47 049-00686 00 00 47 049 30220 00 00 | (M/A) DIVERSIPED E NEMCY DIVERSIPED E NEMCY DELMAR OR, CO | OMMEPORTED OMMEPORTED PRODUCING P & A MACTIVE COMMITTED | ONREPORTED | IN/A) OVERSITED PRODUCTION DELIMAN OIL CO | 39 6147790 39 5772400 39 5628070 39 5716760 | 89.4396710 80.4247170 80.4258420 | 1435,906# ESTIMATED 1047,3650 ESTIMATED 1259,5150 ESTIMATED 1124,1190 ESTIMATED | 0.0 5652.0 565 9040.0 304 0.0 316 | 0.0 A FURBEE & F.A GYOVER 2.0 AMOS J. D. 2 0.0 MAYES, E.L. HERRS 36 8.0 27 | UMME PORTED-UNICIPORNEO OIL & GAS PRODUCING OTHER P & A OIL & GAS INACTIVE COMPLETED |
| 70581 00699 00886 30220 30536 | 47-103-70561-40-00 42 049-00699-00-00 47 049-00686-00-00 42 049-30229-00-00 47-049-30536-00-00 | IMAA) DIVERSIPED ENERGY DIVERSIPED ENERGY DELMAR OB COI THE STATE FEE COMPANY, 114 | COMPLETED COMPLETED PRODUCING P & A MACTIVE COMPLETED COMPLETED | UNREPORTED OIL & GAS OTHER OIL & GAS OIL | INDA ONCENTIES PRODUCTION DELIMATOR DELIMATOR TRESTATE PRE COMPANY, THE | 39 6147790 39 577 2400 39 5628070 | 80.4396/10 80.4247170 80.4258420 40.4204080 | 1435.9068 ESTIMATED 1047.3650 ESTIMATED 1259.5350 ESTIMATED | 0.0 5652.0 565 3040.0 304 0.0 316 0.0 307 | NO ATURBEE & FAGGEVER 20 AMOS.L.D. 2 0.0 MAYES, L.D. HERES 36 80 27 90 AMELIA CROUSER 2 | UMBEPORTED-UNITEPORTED OIL & GAS PRODUCING OTHER P. & A OIL & GAS INACTIVE COMPLETED OIL COMPLETED |
| 70581 00699 03886 30220 30536 30441 | 47-10 J-70581-00-00 42-049-00699-00-00 47-049-00886-00-00 47-049-30586-00-00 47-049-30536-00-00 47-103-305451-00-00 | (M/A) DIVERSIPED E NEMCY DIVERSIPED E NEMCY DELMAR OR, CO | OMMEPORTED OMMEPORTED PRODUCING P & A MACTIVE COMMITTED | UNREPORTED OIL & GAS OIL UNREPORTED | INVA CONTROLLED PRODUCTION DELINAN OIL CO TRISTATE PRE COMPANY, THE MANUFACTURES EXHIB & REAL CO | 39 6147790 39 5772400 39 5628070 39 5716760 | 80.4396/10 80.4247170 80.4258420 60.4204080 | 1435,906# ESTIMATED 1047,3650 ESTIMATED 1259,5150 ESTIMATED 1124,1190 ESTIMATED | 0.0 5652.0 565 3040.0 304 0.0 316 0.0 307 | 0.0 A FURBEE & F.A GYOVER 2.0 AMOS J. D. 2 0.0 MAYES, E.L. HERRS 36 8.0 27 | UMME PORTED-UNICIPORNEO OIL & GAS PRODUCING OTHER P & A OIL & GAS INACTIVE COMPLETED |
| 70581 00699 00886 50220 30536 30441 71935 | 47-103-70581-00-00 47-049-00699-00-00 47-049-00686-00-00 47-049-30520-00-00 47-049-30536-00-00 47-049-31935-00-00 47-049-71935-00-00 | IMAA) DIVERSIPED ENERGY DIVERSIPED ENERGY DELMAR OB COI THE STATE FEE COMPANY, 114 | COMPLETED COMPLETED PRODUCING P & A MACTIVE COMPLETED COMPLETED | UNREPORTED OIL & GAS OTHER OIL & GAS OIL | INVA CONTROLLED PRODUCTION DELINAN OIL CO TRISTATE PRE COMPANY, THE MANUFACTURES EXHIB & REAL CO | 39 6147790 39 5772400 39 5628070 39 5716760 39 5619590 | 89,4396710 80,4247170 80,4258420 60,4204080 80,4382780 | 1435,306# ESTIMATED 1047,3650 ESTIMATED 1259,5150 ESTIMATED 1124,1190 ESTIMATED 1370,2440 ESTIMATED | 0.0 5652.0 565 7040.0 304 0.0 316 0.0 307 | NO ATURBEE & FAGGEVER 20 AMOS.L.D. 2 0.0 MAYES, L.D. HERES 36 80 27 90 AMELIA CROUSER 2 | UMBEPORTED-UNITEPORTED OIL & GAS PRODUCING OTHER P. & A OIL & GAS INACTIVE COMPLETED OIL-COMPLETED |
| 70581 00699 03886 30220 30536 30441 | 47-10 J-70581-00-00 42-049-00699-00-00 47-049-00886-00-00 47-049-30586-00-00 47-049-30536-00-00 47-103-305451-00-00 | IAMA) COMERSIPED ENERGY COMERSIPED OF MERGY DELBARS OR COL THE STATE PRE-COMPANY, 144 MANUFACTURERS EXSET & MEAT CO. | UNIMEPORTED PRODUCING PER MACHINE COMPLETED UNIMEPORTED UNIMEPORTED | UNREPORTED OIL & GAS OIL UNREPORTED | IMAD OVERSHIED PRODUCTION DEVISION OF COMMON | 39 6147790 39 547 2400 39 56 28070 39 5716 760 39 56 19 550 39 545 4600 | 89,4396710 80,4247170 80,4258420 60,4204080 80,4382780 | M35,906# ESTIMATED 1047,3650 ESTIMATED 1259,5350 ESTIMATED 1124,1190 ESTIMATED 1372,2440 ESTIMATED 1355,0000 ACFUAL | 0.0 5652.0 565 7040.0 3040 0.0 305 0.0 507 0.0 | OO A FURBEE & FA GLOVER 220 AMOS.LO. 2 00 MAYES, IL. MERS 36 80 27 90 AMELIA CROUSER 2 00 ID HORRERY COPOTES | WIRE PORTED-UNIX PORTED OIL & GAS PRODUCING OTHER P. & A. OIL & GAS INACTIVE COMPLETED OIL & OMPLETED UNIX PORTED-UNIX PORTED |
| 70581 00699 00886 90220 20536 30441 71935 72073 | 47-103-79581-00-00 42-049-00499-00-00 42-049-00486-00-00 42-049-30220-00-00 47-049-305-36-00-00 47-049-71935-00-00 47-049-72073-00-00 | IMAA) DOUBSINED ENERGY DOUBSINED ENERGY DOUBSINED ENERGY DOUBARG ACC TH-STATE PRE-COMPANY, 144 MANUFACTURETS EIGHT & HEAT CO [MAA] | UNIMEPORTED PRODUCING PRODUCING PRODUCING PRODUCING PRODUCING COMPLETED UNIMEPORTED UNIMEPORTED UNIMEPORTED UNIMEPORTED | UNREPORTED OIL & GAS OTHER OIL & GAS OIL UNREPORTED UNREPORTED UNREPORTED | IMAD OVERSHEED PRODUCTION DOURNHEED PRODUCTION OURHANDED PRODUCTION OTHER TARE PIPE COMPANY, THE MINISTATE PIPE COMPANY, THE IMAD IMAD IMAD IMAD | 39 6147790 39.5428070 39.5428070 39.5116760 39.5454600 39.5454600 39.5454635 | 80.4396/10 80.4247170 80.4258420 60.4204080 80.4582/80 40.449/580 80.4102139 | 1435-966# ESTIMATED 104.7.3650 ESTIMATED 104.7.3650 ESTIMATED 11.24.1190 ESTIMATED 1372-2440 ESTIMATED 1355.0000 ACTUAL 1394.1756 ESTIMATED 0.00000 | 0.0 5652.0 565 8040.0 304 304 0.0 307 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | NO A CHIMPETE F L'AGICHYR ZO AMOS, L.D. 2 DO HAYIS, LL. 1 MERS 36 BO 27 O O AMGIA CROUSER 2 BO ID HORNER / C DPOTTS DO HIMPET STRUMM DO HIMPET STRUMM | UMBERORTED-UNEL-CORTED ONL & GAS PRODUCHIG OTHER P & A OIL & GAS INACTIVE COMPLETED OIL-COMPLETED UMBERORTED-UNISPONITED UMBERORTED-UNISPONITED UMBERORTED-UNISPONITED UMBERORTED-UNISPONITED |
| 70581 00699 03886 90220 30596 30441 71935 72073 71919 | 47-103-70561-00-00 47-049-00699-00-00 47-049-00686-00-00 47-049-30536-00-00 47-049-30536-00-00 47-049-71935-00-00 47-049-71935-00-00 47-049-71939-00-00 | IAVA) DURESTIERD I HIRROY TANSTIERD I HIRROY I | OWNEPORTED PROGRAMMENT TED PROGRAMMENT TED COMMUNICATIVE COMMITTED UNINEPORTED UNINEPORTED UNINEPORTED UNINEPORTED UNINEPORTED UNINEPORTED UNINEPORTED | UNREPORTED OIL & GAS OTHER OIL & GAS OIL UNACPORTED UNREPORTED UNREPORTED UNREPORTED | IMAD OWNERSHED PRODUCTION DEVANSHED PRODUCTION DELAND OIL CO THIS STATE PREFIT COMPANY, THE MANIFIER CUPTANY, THE MANIFIER CUPTANY COMPANY THE (MA) (MA) | 39 6147790 39 577 2400 39 5628070 39 5716710 39 5618135 39 58968840 39 59068840 | 89.4396/10 89.4247170 89.4258420 69.4264080 89.4582780 49.4497580 89.4107139 89.4455100 | 1435,906# ESTIMATED 1047,3490 ESTIMATED 1259,530 ESTIMATED 11,24,1190 ESTIMATED 1370,2440 ESTIMATED 1355,0000 ACFUAL 1391,175# ESTIMATED 0,0000 1244,8771 ESTIMATED | 0.0 5652.0 565 8040.0 3040 0.0 307 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | NO A FURBET & L'ACCOVER ZO AMOS, LO. 2 DO MAYES, E.L. HERRS 36 80 27 80 AMELIA CROUSER 2 DO JOHNNES / C D'OTTS DO J J STRUM DO J J STRUM DO DE O MANTAY DO DE DO MANTAY | UMME PORTED UNITED ORTHO OIL & GAS PRODUCING OTHER P. B. OIL & GAS INACTIVE COMPLETED OIL COMPLETED UMME PORTED UNITED ORTEO UMME PORTED UNITED ORTEO UMME PORTED UNITED ORTED UMME PORTED UNITED ORTED UMME PORTED UNITED ORTED UMME PORTED UNITED ORTED |
| 70581 00699 00886 90220 20536 30441 71935 72073 | 47-10 3-70581-00-00 47-049-00888-00-00 47-049-00888-00-00 47-049-30538-00-00 47-049-30538-00-00 47-049-71935-00-00 47-049-71935-00-00 47-049-71935-00-00 47-049-71935-00-00 | IMAA) DOUBSINED ENERGY DOUBSINED ENERGY DOUBSINED ENERGY DOUBARG ACC TH-STATE PRE-COMPANY, 144 MANUFACTURETS EIGHT & HEAT CO [MAA] | UNIMEPORTED PRODUCING PRODUCING PRODUCING PRODUCING PRODUCING COMPLETED UNIMEPORTED UNIMEPORTED UNIMEPORTED UNIMEPORTED | UNREPORTED OIL & GAS OTHER OIL & GAS OIL UNREPORTED UNREPORTED UNREPORTED | IMAG OVORWATED PEODUCTION DOURNHALD PRODUCTION COLIMAN QUIC CO TRISTATE PIPE COMPANY, THE MAGAZING ALL COLIMAN (MAGAZING ALL COLIMAN) (MAGAZING ALL COLIMAN) (MAGAZING ALL COLIMAN (MAGAZING ALL COLIMAN) (MAGAZING ALL COLIMAN (MAGAZING ALL COL | 39 6147790 39.5428070 39.5428070 39.5116760 39.5454600 39.5454600 39.5454635 | 89.4396/10 89.4247170 89.4258420 69.4294980 89.4582780 49.4497580 89.4455100 89.4175980 | 14 35,906# ESTIMATED 1047,3490 ESTIMATED 1259,5350 ESTIMATED 1259,5350 ESTIMATED 1370,2440 ESTIMATED 1355,0000 ESTIMATED 0,0000 1264,8771 ESTIMATED 1295,6864 ESTIMATED | 0.0 5652.0 565 5060.0 306 0.0 307 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | NO ATURETE I ACCOVER ZO AMOS, 10, 2 DO HAYTS, 11, 16875 16 BO 27 90 AMOLICADUSE 2 BO 21 DO HORRIES, C DO POTES OF J 15 TRUM OO HEAPT TRANSHET 3 DO LO HEAPT TRANSHET 3 OO LO MIRRAY OO ALF RUDAL | UMBEPORTED-UMBEPORTED OIL & GAS PRODUCHIG OTHER P & A OIL & GAS INACTOF COMPLETED OIL COMPLETED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED |
| 70581 00699 00886 90220 30596 30401 71935 72073 71919 72001 | 47-10 3-70561 00-00 47 049-00486 00-00 47 049-00486 00-00 47 049-30220 00-00 47 049-305 36-00-00 47 049-31935-00-00 47 049-71939-00-00 47 049-71939-00-00 47 049-72001 00-00 47 049-72001 00-00 47 049-72001 00-00 | IAMA DOUBSINED ENERGY DOUBSINED ENERGY DOUBSINED ENERGY DOUBARA GO CO TH-STATE PRE-COMPANY, 1-4 AMANUACCURERS EIGHT & HEAT CO IAMA | UNITED ATTO UNITED AND AND AND AND AND AND AND AND AND AN | UNREPORTED UNAEPORTED UNAEPORTED UNAEPORTED UNAEPORTED UNAEPORTED | IMAD OWNERSHED PRODUCTION DEVANSHED PRODUCTION DELAND OIL CO THIS STATE PREFIT COMPANY, THE MANIFIER CUPTANY, THE MANIFIER CUPTANY COMPANY THE (MA) (MA) | 39 6147790 39.5628070 39.5628070 39.516760 30.5619550 30.569835 39.569835 39.569836 39.5767410 39.5936530 | 89.4396/10 80.4247120 80.4258420 60.4254030 80.4582780 40.4497580 80.4107139 80.4155100 80.4175980 80.4367950 | 44 35.906# ESTIMATED 1047.3690 ESTIMATED 1259.5350 ESTIMATED 1259.5350 ESTIMATED 11.24, 1199 ESTIMATED 1350.0000 ACFUAL 1391.175# ESTIMATED 0.0000 1264.8772 ESTIMATED 1295.8864 ESTIMATED 11492.5376 ESTIMATED 11492.5376 ESTIMATED | 0.0 5652.0 565 5040.0 3040 0.0 507 0.0 | NO A FURBEE B I ACCOVER ZO AMOS, LO. 2 DO HAYES, L. 16895-36 BO 37 SO AMELIA CROUSER 2 BO 10 HORMERS / C DPOTTS OO 1/STRUM OO HURNEY TAMASHT 3 OO ALO BO MARKEY OO ALO BO MARKEY OO ALO BO MARKEY OO ALO BO STOUT, DALE 122A | WHAT PORT LIVEN PORT 10 OIL & GAS PRODUCHED OIL & GAS INACTIVE COMPLETED OIL & OMPLET LIVEN PORT COMPLETED OIL & OMPLET LIVEN PORT COMPLETED WHAT PORT COLUMN PORT COMPLETED WHAT COM |
| 70581 C0699 03886 50220 30536 30401 71935 71919 72001 02049 | 47-10 3-70561 00-00 47 049-00486 00-00 47 049-00486 00-00 47 049-30220 00-00 47 049-305 36-00-00 47 049-31935-00-00 47 049-71939-00-00 47 049-71939-00-00 47 049-72001 00-00 47 049-72001 00-00 47 049-72001 00-00 | IAVA DIVERSIMED I NERGY DIVERSIMED I NERGY DIVERSIMED INTERGY DESARAGE OCC TRISTATE PRE-COMPANY, 114 MANUSCRUTTERS INSATE & NERT CO IAVA IAVA IAVA IAVA CURL | UMBEPORTED PRODUCTION PS A MACTIVE COMMITTED UMBEPORTED | UNREPORTED OIL & GAS OTHER OIL & GAS OIL UNREPORTED UNREPORTED UNREPORTED UNREPORTED UNREPORTED GAS OIL | INVA OVO REWIFE PEODUCTION DOURNHEED PRODUCTION DOURNHEED PRODUCTION OF THIS STATE PIPE COMPANY, THE MADE TO REWIFE OF THE STATE CO INVA (NVA) CRECAS COMPANY CRECAS COMPANY (NVA) | 39 6147790 39.5428070 39.5428070 39.5428070 39.5464070 39.546400 39.5464835 39.5767410 39.5767410 39.5767410 | -80,4376710 80,4247170 -80,4258420 -80,4204080 -80,4497580 -80,4455100 -80,4455100 -80,4455100 -80,4455100 -80,4211540 | 1435-906# ESTIMATED 1047-3650 ESTIMATED 1259-5150 ESTIMATED 1259-5150 ESTIMATED 1370-2440 ESTIMATED 1355-0000 ACFUAL 1394-135# ESTIMATED 1264-8771 ESTIMATED 1295-6666 ESTIMATED 149-257-0 ESTIMATED 1215-271 ESTIMATED 1215-271 ESTIMATED | 0.0 5652.0 565 7040.0 306 0.0 316 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | 00 A FURBET & F. A CICAVER 20 AMOST, 10, 2 00 HAYTS, 11, 16875 16 00 27 90 AMOST, 10, 16875 16 00 27 THE TOTAL CONTEST 00 1 DE HORBETT, CO POTTS 00 1 JOSTRUM 00 LOWERT TANACHT & 00 E ON MURRAY 00 E ON MURRAY 00 A TOTAL TANACHT & 00 STOUT, DALE 122A 10 5 | UMBEPORTED-UMBEPORTED OIL & GAS PRODUCING OTHERS & A OIL & GAS INACTIVE COMPTETED OIL COMPLETED UMBERORITED-UMBEPORTED UMBERORITED-UMBEPORTED UMBERORITED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED GAS-PREMIT CAMPTETED CAL-PREMIT CAMPTETED OIL-COMPLETED DI-COMPLETED |
| 70581 60699 00886 50280 30536 30441 71915 71073 71919 77001 02049 00114 | 47-169-70541-00-00 47-049-000499-00-00 47-049-90220-00-00 47-049-90220-00-00 47-101-30441-00-00 47-049-7199-00-00 47-049-7199-00-00 47-049-7199-00-00 47-049-7199-00-00 47-049-7199-00-00 47-049-7199-00-00 | IAVA) DOVESTIFIED I NERGY I | UMBEPORTED PRODUCING P&A IMACTIVE COMPLETED COMPLETED UMBEPORTED PEAM? | UNREPORTED OIL & CAS OIL OIL & CAS OIL UNREPORTED UNREPORTED UNREPORTED UNREPORTED CAS OIL OTHER | INVA OWNER/OF BODGETION DOWNSHIED PRODUCTION DOWNSHIED PRODUCTION DOWNSHIED PRODUCTION OF INSTARC PRICE COMPANY, THE MORPHACTURES LIGHT & TEAT CO (MA) (MA) (MA) (MA) (MA) (MA) (MA) (MA) | 39 6147790 39 5772400 39 5716760 39 5716760 39 564950 39 56496350 39 5644835 39 5767410 39.5936360 39.5767410 39.5936360 39.5941360 39.5940720 | 80.4378710 80.4247170 80.4258120 40.4204080 40.4497481 80.4102139 80.4152100 80.4175980 80.4361950 80.4211540 80.4184590 | 1435.9662 ESTIMATED 1047.3500 ESTIMATED 1259.5530 ESTIMATED 1124.1190 ESTIMATED 135A.2440 ESTIMATED 1355.0000 ACTUAL 1395.1536 ESTIMATED 1265.6677.1 ESTIMATED 1265.667 ESTIMATED 1265.2731 ESTIMATED 1265.2731 ESTIMATED 1265.2731 ESTIMATED | 600 5652.0 565 5040.0 506 600 507 0.0 507 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | 00. A FURBET & F. A CICAVER 20. AMOS, 10. 2 20. HAYS, 11. 1698-36 80. 37 90. ANATIS, 11. 1698-36 80. 10. HORNER / C. D POTTS 80. 10. HORNER / C. D POTTS 80. 10. HORNER / C. D POTTS 80. 11. STRUM 90. HIT STRUM 90. ALE RENDAL 90. ALE RENDAL 80. 50. HORNER / G. B. STRUM 80. 50. HORNER / G. B. STRUM 80. 50. B. MALE 122A 80. 50. B. MAYS, 11. 8 A.J. 82.5341 | UMBEPORTED-UMBEPORTED CITE AGE SHACTON COMPLETED CITE AGE SHACTON COMPLETED CITE AGE SHACTON COMPLETED CITE AGE SHACTON COMPLETED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED COMPLETED CITE AGE SHACE CITE AGE S |
| 70581 60699 90886 90220 90536 50401 71935 71937 71937 72001 92049 90114 92271 92360 | 47-169-70541-00-00 47-049-000499-00-00 47-049-90220-00-00 47-049-90220-00-00 47-101-90540-00-0 47-101-90540-00-0 47-049-71919-00-00 47-049-71919-00-00 47-049-71919-00-00 47-049-71919-00-00 47-049-71919-00-00 47-049-71919-00-00 | IMAN DURESTIFID ENERGY DURESTIFID ENERGY DURESTIFID ENERGY DURESTIFID ENERGY TH-STATE PRE-COMPANY, 314 MANUSACTURITS EIGHT & HEAT CO IMAN IMAN IMAN IMAN CRIC IMAN IMAN CRIC IMA | UMBEPORTED PRODUCTING PS-A MACTIVE COMMITTED COMMITTED UMBEPORTED PS-A PS-A PS-A PS-A PS-A PS-B-A PS-B-A PS-B-A PS-B-A PS-B-B PS-B-A PS-B-B PS-B-A PS-B-B PS-B-A PS-B-B PS-B PS | UNREPORTED OUR & GAS OTHER OUR & GAS OU UNREPORTED UNREPORTED UNREPORTED GAS OU OTHER OTHER OTHER OTHER OTHER | IMAS OVORWATED PRODUCTION DOURNHAD PRODUCTION CELMAN QUIC CO TRISTATE PPE COMPANY, THE MARPIFACTURE RESULTS - REAL C D IMAS [WAS) CRECAS COMPANY CRECAS COMPANY CONDUCTORATION COAL COMPANY CONDUCTORATION COAL COMPANY CONDUCTORATION COAL COMPANY | 39 6147790 39 5124000 39 51620070 39 51620070 39 5162070 39 5162160 39 5162160 30 5 | 89.4378710 89.4247170 89.424716 89.426496 89.4387780 49.4497580 89.4455190 89.4455190 89.4455190 89.4211549 89.4211549 89.4211549 | HIS-SOCE ESTIMATED 104.2695 ISTIMATED 1299-550 ESTIMATED 1124.1990 ESTIMATED 1124.1990 ESTIMATED 1330-2000 ACTHAL 1391-1796 ESTIMATED 0.00000 1246-8271_ESTIMATED 1295-6664 ESTIMATED 1295-5664 ESTIMATED 1295-5300 ESTIMATED 1216-53100 ESTIMATED 1216-53100 ESTIMATED 1216-53100 ESTIMATED 1216-53100 ESTIMATED | 600 5652.0 565 7040.0 500 0.0 307 0.0 00 0.0 00 0.0 00 0.0 00 0.0 311 0.0 311 | 00. A FURBET & F. A CICAVER 20. AMOST, 10. 2 00. HAYTS, 11. HERES & 00. 27 90. AMOST, 10. HERES & 00. 27 90. AMOST, 10. CHOTTS 00. 21. STRUM 00. 11. STRUM 00. ET STRUM 00. A FER STRUM 00. A STRUM 00. STRUTT, DALE 1220. 10. 00. MAYS, 11. 8 A.1. 325 14.1 00. MAYS, 11. 8 A.1. 525 2 | UMBEPORTED-UMBEPORTED OIL & GAS PRODUCING OTHERS & A OIL & GAS IMACTIVE COMPTETED OIL <00MPLETUD UMBERORITED-UMBEPORTED UMBERORITED-UMBEPORTED UMBERORITED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED GAS-PRIMIT CAME**(F) ED OTHERS & A OUTS & COMPTETED OTHERS & A OUTS & A |
| 70581 60699 90886 90220 30536 30441 71935 71939 77001 907049 30114 90221 90221 90368 | 47:103-79541-00-00 47:049-000566-00-00 47:049-00056-00-00 47:049-00556-00-00 47:049-3955-00-00 47:049-3955-00-00 47:049-77:075-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 47:049-77:091-00-00 | IAVA) DOVESTIFIED I NERGY I | UMBEPORTED PRODUCING PS A MACTIVE COMPLETED UMBEPORTED PREMANT CAMPETED PREMANT CAMPETED PREMANT CAMPETED PREMANT CAMPETED PREMANT CAMPETED PREMANT CAMPETED | UNREPORTED OIL & GAS OFFICE OIL & GAS OIL UNREPORTED UNREPORTED UNREPORTED UNREPORTED GAS OIL OTHER GAS | IMAD OWNER/IED PRODUCTION DOWNER/IED PRODUCTION OSTAND PRODUCTION OSTAND PRODUCTION OSTAND PRODUCTION OSTAND PRODUCTION OWNER O | 39 £147790 39.54628070 39.54628070 39.51628070 39.51619550 39.54603160 39.54603160 39.5767410 39.5767410 39.5460770 39.5460770 39.5460770 39.590030 | 80.4378710 80.4247170 80.4247170 80.4254260 80.4582780 80.4497580 80.445750 80.415739 80.4211540 80.4185990 80.4364950 80.4364950 80.4364960 | MIS-006E STIMATED 1096-3500 ISTIMATED 1296-550 ISTIMATED 1296-5500 ISTIMATED 1206-1000 ISTIMATED 1305.0000 ACTUAL 1305.0000 ACTUAL 1305.1296 ISTIMATED 0.00000 1296-867/2 ISTIMATED 1296-867/2 ISTIMATED 1296-867/2 ISTIMATED 1296-5806 ISTIMATED 1296 | 60 5652.0 565 5656.0 565 565.0 | 00. A CHREFE B I A CICOVER 20. MAYS 1.0. 1 PERS 36 40. 17. 90. ANALIC COUSE 2 50. 10 HORNES / C D POTTS 50. 10 HORNES / C D POTTS 50. 17 STRUM 50. HUNDAY TRANSHT 3 50. 80 HON HUNDAY 60. A FER MINAL 50. 50 HON HUNDAY 60. A FER MINAL 60. A STOUT, DALE 122A 30. 5 60. HAYS, 1.1. 8 A.1. 42:5341 60. MAYS, 1.1. 8 A.1. 52:52 60. STOUT, DALE 122A | UMBEPORTED-UMBEPORTED CITE & GAS PRODUCHIS CITE & GAS IMACTOR COMPLETED CITE & COMPLETED CITE & COMPLETED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED UMBEPORTED-UMBEPORTED COMPLETED CITE & A CITE & A CITE & A CITE & A COMPLETED COMPLETED |
| 20581 20599 00886 50220 305 36 30441 71935 71939 71031 02049 30114 02271 02360 07048 71933 | 47:10;3:7984:00:00 47:049:00:06:00:00 47:049:00:06:00:00 47:049:00:07:00:00 47:049:00:07:00:00 47:049:00:07:00:00 47:049:00:07:00:00 47:049:70:09:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:70:00 47:049:7 | IMAN DURESTIFID ENERGY DURESTIFID ENERGY DURESTIFID ENERGY DURESTIFID ENERGY THIS TARREST PER COMPANY, 314 MANUFACTURITES EIGHT & HEAT CO IMAN IMAN IMAN IMAN CRIC CRIC CRIC CRIC CRIC CRIC CRIC CRI | UMBERORTED PRODUCING PS A MACTIVE COMMETED UMBERORTED UMBERORTED UMBERORTED UMBERORTED UMBERORTED UMBERORTED UMBERORTED PS A PEMBER CANCELLED UMBERORTED PS A PEMBER CANCELLED UMBERORTED | UNREPORTED OIL & GAS OIL UNREPORTED UNREPORTED UNREPORTED UNREPORTED UNREPORTED OIL OTHER GAS OIL OTHER GAS UNREPORTED | IMAS OWNERSHIP OPRODUCTION DOURNHIED PRODUCTION DOURNHIED PRODUCTION CELMAN QUIC CO TRISTATE PPE COMPANY, THE MANUFACTURE RESHIF & REAL C D IMAS [WAS] CRECAS COMPANY | 39 £147790 39 5462070 39 5462070 39 5462070 39 54091360 30 5494830 30 5494830 30 5494830 30 5494830 30 5496370 30 5463740 30 5463740 30 5473630 30 5473630 30 5473630 | 80,4378710 80,4247170 80,4258420 80,4258420 80,4581780 80,4581780 80,4167139 80,4175980 80,4367950 80,4217540 80,4237770 80,4237770 80,4237770 80,4237770 | HIS-906E ETIMATED 104/J895 ISTIMATED 129-5150 ETIMATED 114-1190 ETIMATED 13-02-400 ETIMATED 13-02-400 ETIMATED 13-02-400 ETIMATED 13-02-400 ETIMATED 129-5466 F71 ETIMATED 129-5466 F71 ETIMATED 129-5466 F71 ETIMATED 1216-5750 ETIMATED | 0.0 5652.0 565 7000.0 300 300 300 300 300 300 300 300 30 | 00. A CHREFE B I A CICAVE B 20. AMOS, 10. 2 2 20. HAY'S, 11. HERES IS 30. 27 90. AMOS, 10. CHRES B 30. 27 90. AMOS, 10. CHRES B 30. 10 HORRIER J. C. D. C. D. C. T. C. 30. 10 HORRIER J. C. D. C. D. C. T. C. 30. 10 HORRIER J. C. D. C. T. C. 30. 10 HARRY THANKIT B 30. 10 HARRY THANKIT B 30. 10 HARRY THANKIT B 30. 10 HAY S. T. B. T. C. T. C. 30. 10 HAY S. T. B. A. J. S. | UMBERDATED-UMBERDATED OIL & GAS PRODUCING OTHERS & A OIL & GAS IMACTIVE COMPLETED OIL COMPLETED UMBERDATED-UMBERDATED UMBERDATED-UMBERDATED UMBERDATED-UMBERDATED UMBERDATED-UMBERDATED CAS-PREMIT CAMPLETED OTHERS & A CAS-PREMIT CAMPLETED CAS-PREMIT CAMPLETED OUTS & A CAS-PREMIT CAMPLETED CAS-PREMIT CAMPLETED CAS-PREMIT CAMPLETED CAS-PREMIT CAMPLETED CAS-PREMIT CAMPLETED CAS-PREMIT CAMPLETED MOREDOTED-UMBERDATED |
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| ricotest. | 474349-00654-00-00 | CIVERNITO LIGITARY | 76 A | DIHER | DAYERSTRED PRODUCTION | 39.5729670 | 80 42 752 70 | 1174.7450 FSTIMATED | | 3041.0 MAYES 11./ G. HAYES 33 | OTHERPSA |
| 30330 | 47 049 30330 00 00 | SOUTH PENN OIL IS, PENN MAT GAS) | MACTIVE COMPLETED | OHER | SOUTH PERIOD & PRODUCTION | 39.51.798/0 | -\$0.4152760 | 1141 9)ON INTIMATED | | 291) 0 M MR (60)AIL 9 | OIL-MACINE COMPLETED |
| 70,484 | 47-203-70581-00-00 | (NIAL | ANAMENDRIED. | UNREPORTED | (N/A) | 39.6153590 | 80.4560010 | IALE 7348 ENTIMATED | 0.0 | D.D. J.B. HORNER | UNAFPORTED WHEEPORTED |
| 22177 | 47-049-72177-00-00 | (N/A) | OHE (NOW FD | UNREPORTED | (N/A) | 59 549 /450 | 80 41 /9740 | LLOS JOJO ESTIMATED | 0.0 | U.B. JI HOADEN | UMREPORTED UNREPORTED |
| 70203 | 47 049 70203 00 00 | UP. | UNREPORTED | UNREPORTED | HOPE NATURAL GAS COMPANY | 79.5026690 | #0.4359650 | LIAN 1264 ISHMATED | 0.0 | 0.0 11 MezhRAY | DMR(PURMID UNREPORTED |
| 70576 | | (N/A) | SINK LENGTH I F LI | UNREPURALIS | (N/A) | 39 61 79 / 10 | 80 4552510 | 1300,2967 FSTIMATED | 40 | Q.U. SIMON HIGGINBOPHAM | UNREPORTED UNREPORTED |
| /19/2 | 47 049 71972 00 00 | (N/A) | | | | | | | | | |
| | | | UNREPORTED | UNREPORTED | (N/A) | 39 540 36/00 | 20 4360260 | [4-70-0000 Ar TUAL | DLG. | 0.0 (D M) [72 | UMAREPORTUD-UNREPORTED |
| 21997 | 47-049-71997-00-00 | (N/A) | SINKEPORTED | UNREPORTED | (N/A) (N/A) | 39.572531D | 80 415647D | 1470 0000 AC TOAL 1398,9123 ESTIMATED | D.D | 0.0 W 2444YS | UMMEPORTED UNREPORTED |
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| 71997 | 47-049-71997-00-00 | (N/A) | SINREPORTED | UNREPORTED | (N/A) | 39.5 / 25 ND | 80 415647D | 1398.9123 ESTIMATED | 0.0 | 0.0 W 2444YS | UNREPORTED UNREPORTED |
| 72997 72000 | 47-049-71997-00-00 47-049-72000-00-00 | (N/A) (N/A) | STNREPORTED MARGEMENTED | UNREPORTED UNREPORTED | (N/A) (N/A) | 39.572531D 19.5761600 | 80 415647D -80 4158340 | 1398.9123 ESTIMATED 1266.6243 ESTIMATED | 0.0 0.0 | O.O. ALE KENDALL | UMREPORTED UNREPORTED UMREPURTQU-UNREPORTED |
| 71997 72000 71917 71992 30157 | 47-049-71997-00-00 47-049-72000-00-00 47-049-71917-00-00 47-049-71997-00-00 47-103-39157-80-00 | (W4) (W4) (W4) (W4) (W4) | SINREPORTED UNREPORTED UNREPORTED UNREPORTED COMPLETED | UNREPORTED UNREPORTED UNREPORTED UNREPORTED GAS | (N/A) (N/A) (N/A) | 39.5725310 19.5761600 39.5957560 | 80 4156470 80 4158340 80,4483210 | 1398.9123 ESTIMATED 1266.6243 ESTIMATED 1389.1545 ESTIMATED | D.D D.D | D.D. W.ZHAYS D.D. ALF KENDALL D.D. E.G.MURRAY | LIMBEPORTED UNBEPORTED UMBEPUR FCG-UNBEPORTED UMBEPORTED UNBEPORTED UMBEPORTED UMBEPORTED GAS-FOMBETTED |
| 71997 72000 71917 71997 30157 71996 | 47-049-71997-00-00 47-049-72000-00-00 47-049-71917-00-00 47-049-71997-00-00 47-103-34357-100-00 47-049-71996-00-00 | (MA) IMAI IMAI IMAI IMAI | SINREPORTED SINREPORTED SINREPORTED SINREPORTED COMPLETED VAREPORTED | UNREPORTED UNREPORTED UNREPORTED UNREPORTED GAS UNREPORTED | (RUA) (RUA) (RUA) (RUA) (RUA) (RUA) (RUA) | 39.5/25310 95.5761600 39.5957660 99.5606126 59.6666570 59.5/03550 | 80 4156470 80 4158340 80 4483210 80 42 (157) 20 4505890 80 4172230 | 1398.9123 ESTIMATED 1266.6243 ESTIMATED 1289.1545 ESTIMATED 0 0000 1199.6498 ESTIMATED 1169.9388 ESTIMATED | 0.0 0.0 0.0 | O.D W ZHANYS O.D ALT KENDALL O.D E O MURRAY O.D Z E WATSON 6 1365.0 W FSMITH 4.D W ZHANYS | UMREPORJED WINEPORTED UMREPORTED WINEPORTED UMREPORTED WINEPORTED GRAF GAMPLTTD LOMREPORTED UMREPORTED LOMREPORTED UMREPORTED |
| 71997 72000 71917 71992 30157 71996 72182 | 47-049-71997-00-00 47-049-72000-00-00 47-049-71997-00-00 47-049-71997-00-00 47-103-30157-10-00 47-049-71996-00-00 47-049-71986-00-00 | (MA) (MA) (MA) PITSBURGH & WV GAS (MA) | SINALPORTED UNREPORTED UNREPORTED UNREPORTED COMPLETED UNREPORTED UNREPORTED UNREPORTED | UNREPORTED UNREPORTED UNREPORTED UNREPORTED GAS UNREPORTED UNREPORTED | (M/A) (M/A) (M/A) (M/A) (M/A) (M/A) (M/A) | 39.5./25.310 95.5761600 39.595.7660 39.595.7660 39.60405.70 39.5./03550 39.5468420 | 80 4156470 80 4158340 80 44583210 80 42 (157) 80 42 (157) 80 41 / 2230 80 42 / 35940 | 1398,9123 ESTIMATED 1266,6243 ESTIMATED 1289,1545 ESTIMATED 0 0000 1199,6898 ESTIMATED 1169,988 ESTIMATED 1278,9447 ESTIMATED | 0.0 0.0 0.0 0.0 0.0 0.0 | D.D. W.Z.MAYS D.D. B.G. MURRAY D.D. E.G. MURRAY D.D. Z.E. MATSON 6 3365.0. W.F.SMITH D.D. W.Z.MAYS D.D. JACK HAYS | UMMEPORIFD WHIPPORTED UMMELVANT (CO-UMMEYORALL) UMMEPORITED UMMEPORALL) UMMEPORITED UMMEPORITED UMMEPORITED UMMEPORITED UMMEPORITED UMMEPORITED UMMEPORITED |
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| 71997 72000 71917 71992 30157 71996 72182 71994 71986 00889 02732 71915 | 47-09-11997-00-00 47-09-72000-00-00 47-09-71997-00-00 47-09-71997-00-00 47-09-71996-00-00 47-09-71996-00-00 47-09-71996-00-00 47-09-71996-00-00 47-09-71996-00-00 47-09-92-92-00-00 47-09-92-92-00-00 | (UVA) | SINALPORTED LINKEPORTED | UNREPORTED UNREPORTED UNREPORTED GAS UNREPORTED UNREPORTED UNREPORTED UNREPORTED UNREPORTED OTHER UNREPORTED | (RIA) | 39.5/25.110 19.5761,600 39.595,7560 39.540,0126 39.540,0125 39.570,125 39.5891,930 39.5581,630 39.57561,140 39.57561,140 | 80 415647D 80 4158340 80 4211573 20,446890 80 4112230 20,4235940 80,4199970 40,4245300 20,42728430 20,42728430 20,42728430 | 1298.9122 ESTIMATED 1266.6243 ESTIMATED 1299.1545 ESTIMATED 0 0000 1199.6898 ESTIMATED 129.9447 ESTIMATED 129.9447 ESTIMATED 1286.9914 ESTIMATED 1286.9914 ESTIMATED 1266.0050 ESTIMATED 1266.0050 ESTIMATED 1266.0050 ESTIMATED 1266.0050 ESTIMATED | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | D.D. W. 244/PS D.O. ALE FINAL D.D. E.O MURRAY D.O. 21 & RATSOME 1985.0. W.F. SMITH D.D. W.Z. SMPS D.D. W.F. SMITH D.D. W.Z. SMPS D.D. 21 & RATSOM D.D. HANCE FLAVS D.D. 22 & RATSOM D.D. SEMBALL, AFRICE HEMS G D.D. MICHAEL, AFRICE HEMS G D.D. BLEMBALL, AFRICE HEMS S | UMBERGATE DAMBERGATE D UMBERGATE DAMBERGATE D UMBERGATED DAMBERGATE D UMBERGATED DAMBERGATE D UMBERGATE DAMBERGATE D |
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| 71997 72000 71917 71992 30157 71996 72352 71996 00889 02232 71915 30271 30701 | 47-99-1499-1-00-00 47-049-1-1917-00-00 47-049-11917-00-00 47-049-11917-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-11919-00-00 47-049-302773-00-00 | (UVA) | UNALPORTED UNKEPORTED MACTOR COMPLETED MACTOR COMPLETED | UNREPORTED | (RIA) | 39.57.25 31D 19.576 1600 39.595 5600 126 39.6600 570 39.570 130 39.589 1330 39.558 1430 39.578 1440 39.578 1530 39.578 1530 39.578 1530 39.578 1530 39.578 1530 | 80 41547D 80 4154340 80.448321D 80.448321D 80.41523 80.412230 80.4199740 80.4199740 80.439740 80.439740 80.439740 80.439740 80.439740 80.439740 80.439740 | 1.388.122 ISTIMATED 1266.624 STIMATED 1266.1545 ISTIMATED 4 0000 1169.5898 ISTIMATED 1169.3888 ISTIMATED 1169.3888 ISTIMATED 1169.3888 ISTIMATED 1169.3888 ISTIMATED 1169.3808 ISTIMATED 1486.0800 ISTIMATED 1268.0800 ISTIMATED | B.D D.D D.D D.D D.D D.D D.D D.D D.D D.D | D.D. W. 24475 D.D. 10 MURRAY D.D. 10 MURRAY D.D. 12 W. 75MITH D.D. W. 75MITH D.D. W. 24M75 D.D. W. 24M75 D.D. 12 REATON D.D. 12 REATON D.D. 14 REATON D.D. 15 REATON D.D. 1 | UMBERGATE DAMBERGATIO UMBELDATE COMPANIS (COMPANIS (COMPANIS (COMPANIS (COMPANIS COMPANIS COM |
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WV Department of chargonmental Protection



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

Sincerety,

James Peterson

Environmental Resources Specialist / Permitting

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Office of Oil and Gas

AUG 2 2 2023

Promoting a healthy environment.

WV Department of Environmental Protection



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

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

| IN THE MATTER OF A VARIANCE FROM |) | ORDER NO. | 2014 - 17 |
|--------------------------------------|---|-----------|-----------|
| REGULATION 35 CSR § 4-11.4/11.5/14.1 |) | | |
| AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE |) | | |
| THE OPERATIONAL |) | | |
| REGULATIONS OF CEMENTING OIL |) | | |
| AND GAS WELLS |) | | |

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - · 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

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Office of Oil and Gas

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AUG 2 2 2023

Department of Erryronmental Protection

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, if after 8 hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

Office of Oil and Gas

AUG 222023

Jarment of Protection



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

July 27, 2023

Mr. Taylor Brewer West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Casing on Radcliff 8H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,354' KB, 50' below the deepest workable coal seam, 603' below the deepest fresh water.

The 9-5/8" intermediate string will be set at 2,721' KB, 50' below the base of the Big Injun formation.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

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Office of Oil and Gas

AUG 22 2023

Environmental Protection



July 27, 2023

Mr. Taylor Brewer West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Class L Cement Variance Request

Radcliff 8H Well

Mannington District, Marion County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

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Office of Oil and Gas

AUG 22 2023

Separtment of Environmental Protection



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 928-0450

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

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

| IN THE MATTER OF A VARIANCE FROM |) | | |
|-----------------------------------|---|-----------|---------|
| LEGISLATIVE RULE 35CSR4 | Ó | ORDER NO. | 2022-14 |
| SECTION 11.5 AND LEGISLATIVE RULE | í | | |
| 35CSR8 SECTION 9.2.h.8., | Ś | | |
| RELATING TO THE CEMENTING | Ś | | |
| OF OIL AND GAS WELLS |) | | |

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- API Class A cement, relating to the construction of horizontal wells.

 RECENTED GOS

 2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class In Cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment.

 On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

AUG 2 2 2023

AUG 2 Protection

Environmental Protection

Member, Pennsylvania Association of Notaries 09/29/2023

WW-9 (4/16)

| API Number 47 - | ž |
|---------------------|-------------|
| Operator's Well No. | Radcliff 8H |

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| TEODS COTTINGS DISTOSAE & RECEASIA | ATTON LAN |
|---|--|
| Operator Name EQT Production Company | OP Code 306686 |
| Watershed (HUC 10) Bartholomew Fork Quadrangle G | Glover Gap |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed wel | ll work? Yes 🗸 No |
| Will a pit be used? Yes No V | |
| If so, please describe anticipated pit waste: N/A | |
| Will a synthetic liner be used in the pit? Yes No If so, | , what ml.? N/A |
| Proposed Disposal Method For Treated Pit Wastes: | |
| Land Application | |
| Underground Injection (UIC Permit Number 0014, 8462, | 2, 4037 |
| Reuse (at API Number_Various |) |
| Off Site Disposal (Supply form WW-9 for disposal locati | ion) |
| Other (Explain | |
| Will closed loop system be used? If so, describe: Yes, The closed loop system will remove druthen prepared for transportation to an off-sit | rill cuttings from the drilling fluid. The drill cuttings are te disposal facility. |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, | oil based, etc. See Attached |
| -If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud | |
| Additives to be used in drilling medium? See Attached | |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill | |
| -If left in pit and plan to solidify what medium will be used? (cement, lime | e, sawdust) N/A |
| -Landfill or offsite name/permit number? See Attached List | |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of dril West Virginia solid waste facility. The notice shall be provided within 24 hours of rewhere it was properly disposed. | |
| I certify that I understand and agree to the terms and conditions of the GEN on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and companies for submitting false information, including the possibility of fine or imprison. Company Official Signature Company Official Title Project Specialist - Permitting | Environmental Protection. I understand that the on of the general permit and/or other applicable familiar with the information submitted on this those individuals immediately responsible for |
| Subscribed and sworn before me this 27th day of July | , 20 73 Commonwealth of Pennsylvania - Notary Seal |
| The bleas Bl- | Notary Public Beaver County |
| My commission expires March 9, 2024 | My commission expires March 9, 2024 Commission number 1267706 |

Operator's Well No. Radcliff 8H

| | nent: Acres Disturbed | Prevegetation pl | ı |
|---|---|---|-------------------------------------|
| Lime 3 | Tons/acre or to correc | t to pH 6.5 | |
| Fertilizer type Gran | ular 10-20-20 | | |
| Fertilizer amount 50 | 00 | Ibs/acre | |
| Mulch 2 | | Tons/acre | |
| | | Seed Mixtures | |
| Теп | рогагу | Perma | aent |
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| KY-31 | 40 | Orchard Grass | 15 |
| Alsike Clover | 5 | Alsike Clover | 5 |
| Annual Rye | 15 | | |
| Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application | t will be land applied, incl n area | application (unless engineered plans includude dimensions (L x W x D) of the pit, and | ling this info hav dimensions (L |
| Plan Approved by: Pre-seed/m | t will be land applied, inclinarea ed 7.5' topographic sheet. | d areas as soon as reasona | dimensions (L |
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| Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve Plan Approved by: Pre-seed/maps. | t will be land applied, inclinarea ed 7.5' topographic sheet. | d areas as soon as reasonateessary per WV DEP E&S | bly possib |

in

WW-9 Attachment

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

 Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water based mud, or synthetic mud.

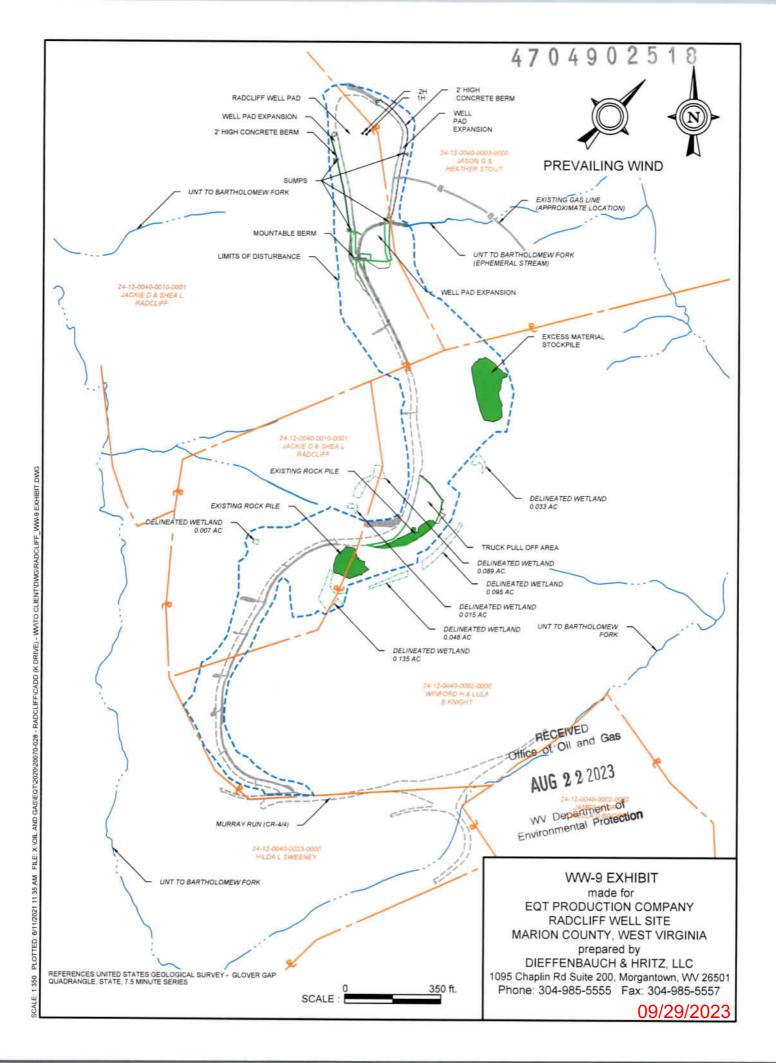
Additives to be used in drilling medium?

- Air biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

RECEIVED
Office of Oil and Gas

AUG 2 2 2023

Department of Environmental Protection





SITE SAFETY AND ENVIRONMENTAL PLAN

Radcliff Well Site

Mannington Marion County, WV

Wells: 1H - 47-049-02281, 2H - 47-049-02282, 4H, 6H, 8H, 10H, 12H- 47-049-02510, 14H, 16H, 18H

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 8-Apr-21

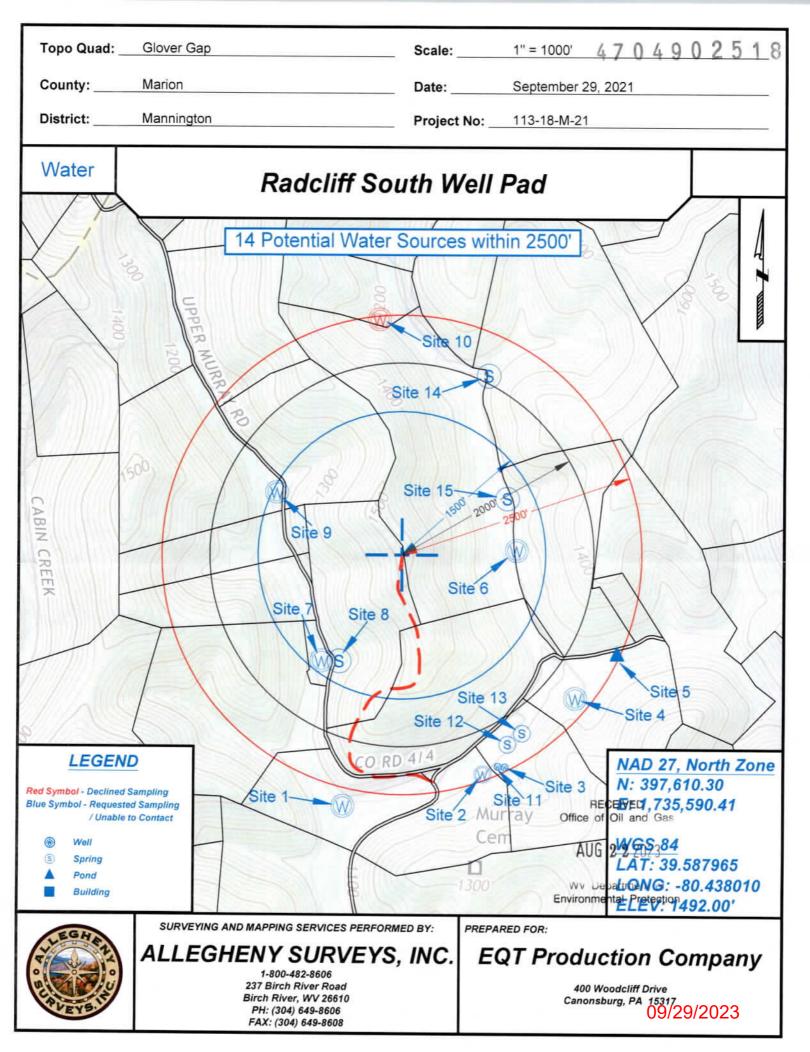
John Zavatchan

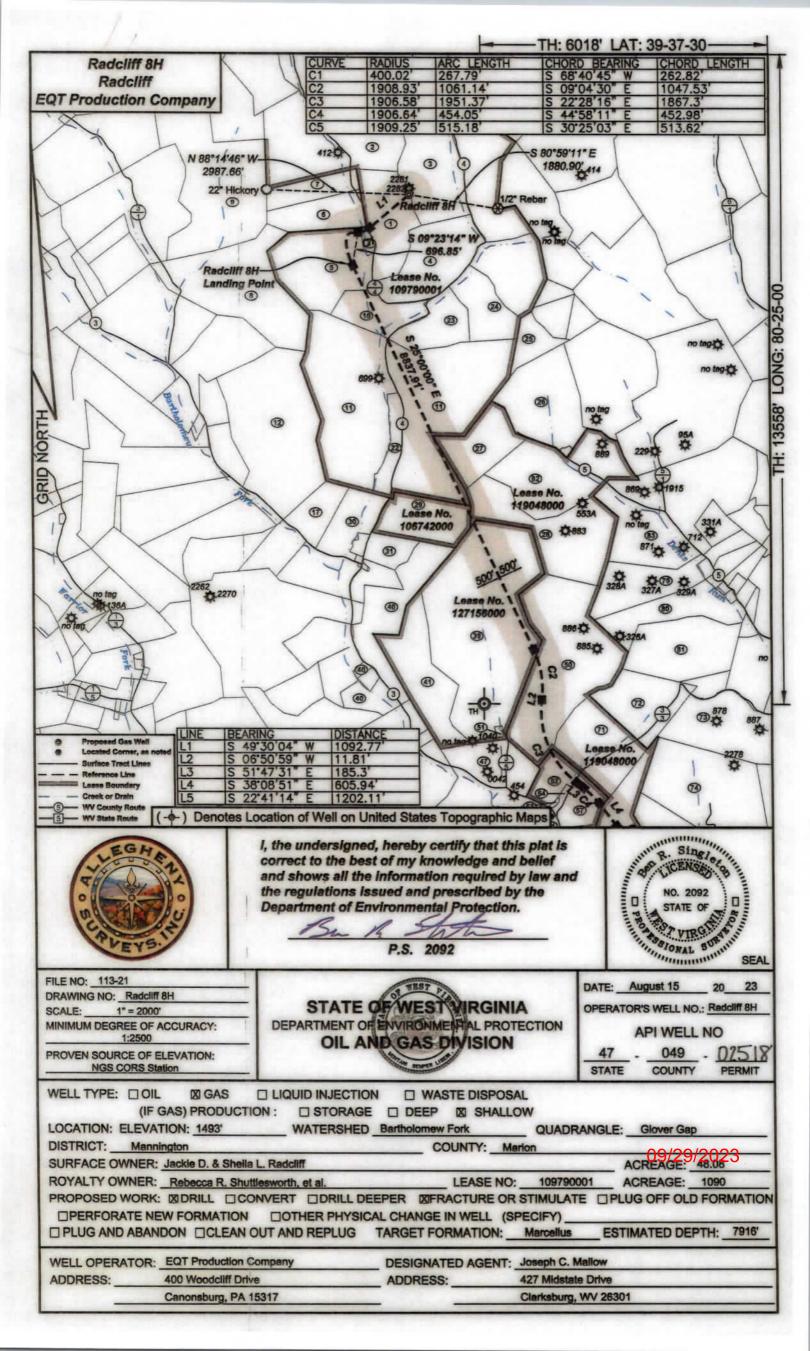
Project Specialist - Permitting **EQT Production Company**

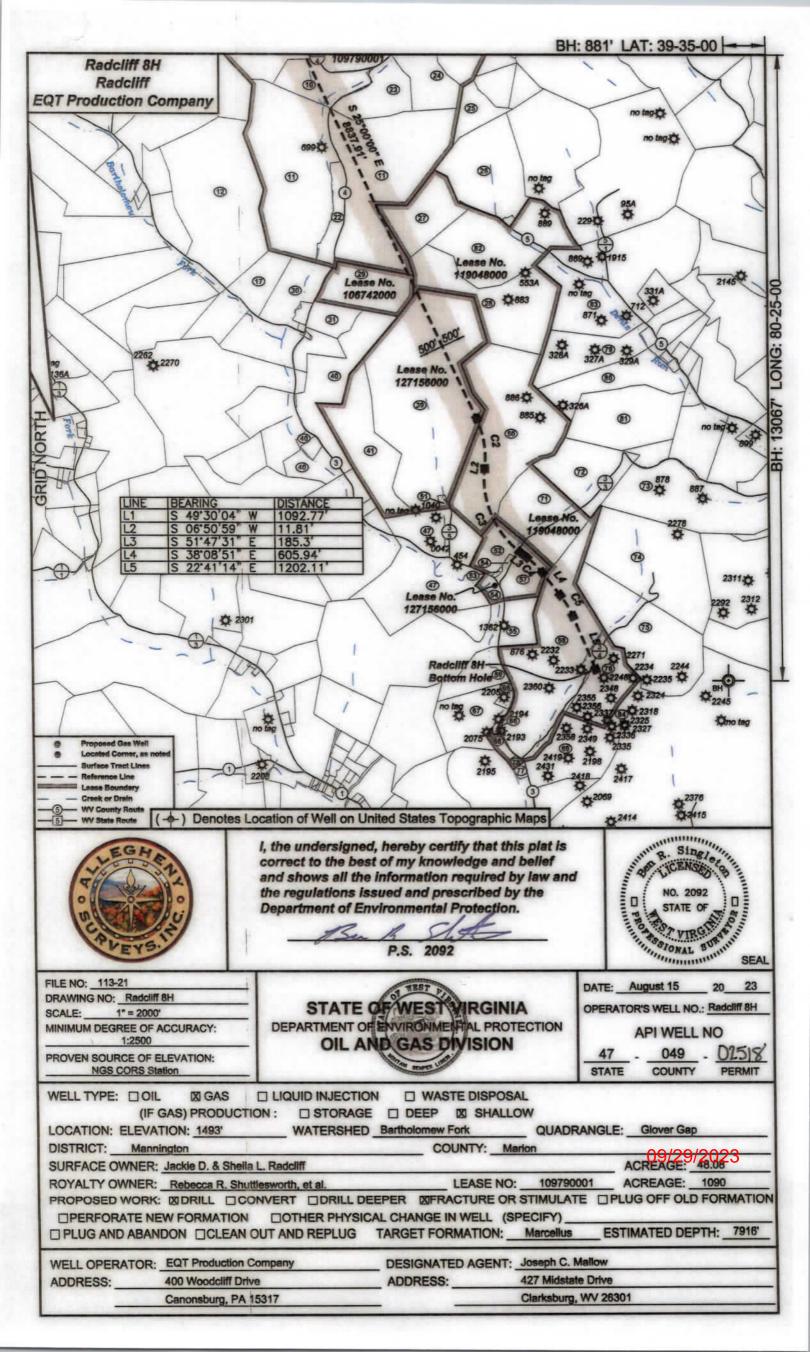
John F Zavatchan Jr.

Randall M. Kirchberg Digitally signed by Randall M. Kirchberg Date: 2023.08.03 15:50:13 -04'00'

Oil and Gas Inspector WVDEP Office of Oil and Gas

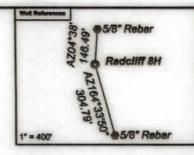






Radcliff 8H Radcliff EQT Production Company

| rect LD. 1 | Ex Mas No. | | County District | Surface Tract Owner | Acres |
|------------|------------|------|---------------------|--------------------------------------|--------|
| 1 | 40 | 10.1 | Morion Monnington | Jockie D. & Shella L. Radeliff | MIAN |
| 2 | 40 | 10 | Marion Mannington | Shelly L Nelson | 43.03 |
| 3 | 40 | 3 | Marion Mannington | Jason G. & Heather R. Stout | 99.75 |
| 4 | 40 | 2 | Marion Mannington | tato B. Knight | 56.32 |
| 5 | 40 | 11 | Marion Minnington | Clarence W. Sweeney | 63 |
| .6 | 40 | 12 | Marine Mannington | Jackin D. R. Sheila L. Radelliff | 27.35 |
| 7 | 40 | 13 | Marion Mannington | Shelly L. Nelson | 19.75 |
| | 40 | 2.8 | Marion Mannington | Mirmond Cole | 92.12 |
| | 40 | 17 | Marion Monnington | Steven B. Newbraugh | 100.7 |
| 10 | 40 | 23 | Marino Mannington | Sara M. Patcoe, et al. | 26.41 |
| 11 | 39 | 4 | Marino Mannington | Coastal Forest Resources Company | 345.72 |
| 12 | 40 | 22 | Micron Mannington | James & Notalie Kerns | 113.25 |
| 17 | 44 | 14 | Marion Mannington | Charles D. f. June Shaver | 72.7 |
| 22 | 29 | 4.1 | Marion Mannington | Thomas M. & Joseph McSorley | 149 |
| 23 | 40 | 2.2 | Marion Mannington | James W. Boore | 29.52 |
| 21 | 40 | 2.1 | Marion Mannington | Jason G. & Huarther R. Stone | 29.58 |
| 25 | 39 | 3 | Merion Mannington | Thomas G. & Theress A. Jones | 10.25 |
| 25 | 29 | 5 | Marion Mannington | Thomas G. & Theresa A. Jones | 61.85 |
| 27 | 36 | 21.3 | Marion Mannington | David Maffeld | 37.25 |
| 28 | 35 | 21 | Marion Mannington | Dennis G. fi Louise St. Hayes | 74.85 |
| 29 | 38 | 1 | Morion Minnington | Carey S. & Jennifer J. Allender | 37.25 |
| 30 | 44 | 11 | Marion Monnington | Charles D. B. June Shover | 57.75 |
| 31 | 36 | 2 | Marion Mannington | Justin & Kendra Davis | 13.05 |
| 39 | 38 | 10 | Marino Mannington | Thomas E. & Andrea G. Pyron | 175.1 |
| 40 | 35 | | Marion Mannington | John D. & Raji K. Carson | 64.50 |
| 41 | 394 | | Marino Mannington | Thomas E. & Andrea G. Ryon | 62 |
| 47 | 44 | 1 | Merion Mennington | Edna Marie Cain | 107.5 |
| 50 | 36 | 11 | - Marion Mannington | Yalls Hibslanya | 115 |
| 51 | 35 | 10.1 | Merion Mennington | Michael E. & Laura A. Gorbey | 1.15 |
| 52 | 30 | 13.3 | Merion Mannington | Christine L. Fragsle, et al. | 15.8 |
| 53 | 35 | 13 | Marion Manaington | Circly Slater, et al. | 0.54 |
| 54 | 38 | 13.2 | Marton Mannington | Christine L Fragale, et al. | 7 |
| 55 | 37 | 21 | Marine Mannington | Justin H. Caln | 129.0 |
| 57 | 38 | 13.1 | Marian Monnington | Christine L. Fragole, et al. | 16.5 |
| 58 | 37 | 22 | Menon Monnington | Jeffrey M. Michael | 166.8 |
| 59 | 37 | 20 | Marion Mannington | mistin II, Coln | 18 |
| 66 | 37 | 19 | Marion Mannington | Gory E. Snodgram | 3.61 |
| 67 | 37 | 18 | Marion Mannington | Tommy L. & Terri A. Snodgrass | 31.5 |
| 68 | 37 | 22.1 | Marion Monnington | Ronald C. & Botty L. Michael, et al. | 5.17 |
| 65 | 37 | 17 | Merion: Mannington | Jeffrey H. Michael | 85.0 |
| 71 | 38 | 14 | Marion Mannington | Nancy M. Riggs | 52 |
| 72 | 38 | 14.1 | Marion Mannington | Juhn A. Mayhon, Jr. | 48 |
| 73 | 37 | 34 | Marion Mannington | James D. Atkinson | 112 |
| 74 | 37 | 23 | Marion Mannington | Christine L. Fragade, et al. | 25 |
| 75 | 37 | 24 | Marion Mannington | Jeffrey H. Michael | 79 |
| 76 | 37 | 25 | Marion Munnington | judfewy to, tylichaed | 33.7 |
| 77 | 37 | 17.1 | Marion: Mannington | Ronald C. & Betty L. Michael | 1.4 |
| 78 | 37 | 22.2 | Marion Mannington | Ronald C. S. Becty L. Michael | 1.5 |
| 79 | 316 | 19 | Marion Mannington | Dorothy D. Fundersheit | 36.3 |
| 80 | 38 | 19.4 | Marion Mannington | William E. Hendershot | 39.7 |
| MI | 32 | 15 | Marine Monnington | Michael & Julio A. Millio | 58.6 |
| 22 | 38 | 21.1 | Morion Monnington | Douglas E. & Debors J. Maffeld | 54.0 |
| 53 | 38 | 20 | Marion Mannington | Dennis G. & Louise M. Hirves | 59.7 |
| 84 | 37 | 28 | Murion Mannington | Harrison County Coal Resources Inc. | 91 |



Notes:
Redcliff 8H coordinates are
NAD 83 N: 397,580,00 E: 1,704,148,58
NAD 83 Lat: 39,587778 Long: -80,438020
NAD 83 UTM N: 4,382,157,11 E: 548,257,83
Redcliff 8H Landing Point coordinates are
NAD 83 N: 396,087,30 E: 1,702,959,13
NAD 83 Lat: 39,583646 Long: -80,442184
NAD 83 UTM N: 4,381,696,27 E: 547,903,04
Radcliff 8H Bottom Hole coordinates are
NAD 83 N: 382,841,91 E: 1,709,135,55
NAD 83 Lat: 39,547459 Long: -80,419790
NAD 83 UTM N: 4,377,692,30 E: 549,852,12
at Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.

WTM coordinates are NAD83, Zoo Radcliff

Redcliff 18H @

Redcliff 16H @

Redcliff 14H @

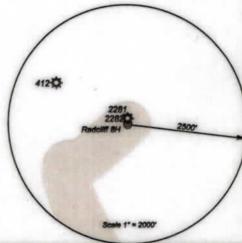
Radcillf 12H @

Radcillf 10H (6)

- - - - - - -

Redcliff 4H @

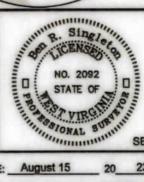
| Lease No. | Owner | Acres |
|-----------|--|-------|
| 109790001 | Rebecca R. Shuttlesworth, et al. | 1090 |
| 119048000 | Lee and Hall Royalties, et al. | 809 |
| 106742000 | The Shella Lightfoot Revocable Trust, et al. | 37.25 |
| 127156000 | EQT Production Company, et al. | 240 |
| 127156000 | EQT Production Company, et al. | 41 |





I, the undersigned, hereby certify that this plat 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 Department of Environmental Protection.

P.S. 2092



FILE NO: __113-21

DRAWING NO: _Radcliff 8H

SCALE: ____1** = 2000'

MINIMUM DEGREE OF ACCURACY: _____1:2500

PROVEN SOURCE OF ELEVATION: ______NGS CORS Station

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

DATE: August 15 20 23
OPERATOR'S WELL NO.: Raddiff 8H
API WELL NO

AFTWELLING

STATE COUNTY PERMIT

| | | | | | | | - SHOWING . |
|--|---|----------------|--|--|----------------------|------------|-------------|
| | S) PRODUCTION : | | DEEP SHA | ALLOW | | Ol O | |
| LOCATION: ELEVATION | ON: 1493' W | ATERSHED Barth | olomew Fork | QUADR | ANGLE: _ | Glover Gap | |
| DISTRICT: Manning | ton | | COUNTY: | Marion | | 00/00/ | |
| SURFACE OWNER: Ja | ackie D. & Sheila L. Radclif | T | | | A | CREAGE: | 48.06 |
| ROYALTY OWNER: _F | ROYALTY OWNER: Rebecca R. Shuttlesworth, et al. LEASE NO: 109790001 ACREAGE: 1090 | | | | | | |
| | DRILL CONVERT | | | | | | |
| | FORMATION DOT | | | | | | |
| | ON CLEAN OUT AND | | | | ESTI | MATED DEF | TH: 7916' |
| FEOG AND ABANDO | DN DCLEAN OUT AND | TARCE TARC | LI I OKWATIOI | 1 | | MUTTED DE | |
| WELL OPERATOR: E | QT Production Company | DES | SIGNATED AGE | NT: Joseph C. N | lallow | | |
| ADDRESS: 40 | | | ADDRESS: | THE RESERVE OF THE PARTY OF THE | | | |
| The second secon | anonsburg, PA 15317 | | III TO SERVICE OF THE PARTY. | | Clarksburg, WV 26301 | | |
| | anonoung, 174 10011 | | The latest terms of the la | | | | |

Operator's Well No. Radcliff 8H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

| Lease Name or | | | |
|---------------|-----------------------|-----------------------|---|
| Number_ | Grantor, Lessor, etc. | Grantee, Lessee, etc. | F |

Royalty

Book/Page

See Attached

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management

WV Division of Natural Resources WV Division of Highways

• U.S. Army Corps of Engineers

U.S. Fish and Wildlife Service

County Floodplain Coordinator

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Office of Oil and Gas

AUG 22 2023

WV Department on Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

| Well Operator: | EQT Production Company | John F Zavatch | an J |
|----------------|--------------------------------|----------------|------|
| By: | John Zavatchan | 0 | U |
| Its: | Project Specialist - Permittin | ng | |

Page 1 of 3

| | | | Sporate 6 11011110. | | VauCilli 6H | |
|------------------|---|----------|---|--|-------------------------|-----------------|
| ease No. | Grantor, Lessor, etc. | Acres | Grantee, Lessee, etc. | Royalty | Book/Page | <u></u> |
| | Rebecca R. Shuttlesworth, et al. Rebecca R. Shuttlesworth, Power of Attorney | | American Shale Development, Inc. | "at least 1/8th per WV Code 22-6-8" | | |
| <u>109790001</u> | for Robert Lee Gwinn, Sr., Widower | 1090 ac | Republic Energy Ventures, LLC | | DB 1117/329 | |
| | American Shale Development, Inc. Republic Partners VIII, LLC | | Republic Partners VIII, LLC | | AB 47/469 | |
| | Republic Energy Ventures, LLC | | EQT Production Company | | AB 51/525 | |
| | American Shale Development, Inc. | | EQT Production Company | | DB 1228/1 | Confirmatory De |
| | Lee and Hall Royalties, et ai, | | | "at least 1/8th per WV Code 22-6-8" | | |
| 119048000 | J.L. Hays and A.J. Hays | 809 ac | Delmar Oil Company | COUG 22-0-0 | DB 88/427 | |
| | Delmar Oil Company | 000 86 | E. H. Jennings Bros. Company | | | |
| | E. H. Jennings Bros. Company | | Quaker State Oil Refining Corporation | | DB 354/341 | |
| | | | Guaker State Oil Relithing Corporation | | DB 467/61 DB 754/403 | |
| | Quaker State Oil Refining Corporation | | B-C Oil and Gas Company, Inc. Clarence W. Mutschelknaus, Sr. Clarence W. Mutschelknaus, Jr. | | AB 6/132 | |
| | | | Jacklyn A. Rominger | | | |
| | B-C Oil and Gas Company, Inc. Clarence W. Mutschelknaus, Sr. Clarence W. Mutschelknaus, Jr. | | William R. Johnson | | AB 12/293 | |
| | Jacklyn A. Rominger William R. Johnson | | Cobham Gas Industries, Inc. | | AB 15/339 | |
| | Cobham Gas Industries, Inc. | | Prima Oil Company | | AB 27/258 | |
| | Prima Oil Company, et al. Trans Energy, Inc. | | Trans Energy, Inc. | | AB 30/165 | |
| | Prima Oil Company, Inc. | | Republic Energy Ventures, LLC | | AB 39/953 | |
| | Trans Energy, Inc | | Republic Energy Ventures, LLC | | AB 41/325 | |
| | Prima Oil Company | | Trans Energy, Inc. | | DB 1113/756 | |
| | Trans Energy, Inc. | | American Shale Development, Inc. | | AB 43/420 | |
| | American Shale Development, Inc. Republic Partners VIII, LLC | | Republic Partners VIII, LLC | | AB 47/469 | |
| | Republic Energy Ventures, LLC, et al. | | EQT Production Company | | AB 51/525 | |
| | American Shale Development Inc., et al. | | EQT Production Company | | DB 1228 /1 | |
| | The Shells Lightfoot Revocable Trust, etalt | | | "at least 1/8th per WV Code 22-6-8" | | |
| | Sheila Lightfoot, single, individually and Tine Fischer single, by | Sheila | | 0000 ZZ 0*0 | | |
| | Lightfoot acting in her capacida as 🐯 💍 | | American Shale Development, Inc. | | | |
| 106742000 | Sheila Lightfoot, single, individually and Tiffer ischer ingle, by Lightfoot acting in her capacit as: Attorney-In-Fact for Tina Fischer: American Shale Development Ing. | 37.25 ac | Republic Energy Ventures, LLC | | DB 1136/481 | |
| | American Shale Development Infl. 20 and | | Republic Partners VIII, LLC | | AB 47/469 | |
| | | | American Shale Development, Inc. | | AB 51/393 | |
| | Republic Partners VIII, LLC 🚊 🤲 | | | | | |
| | Republic Energy Ventures, LEC, et al. 69 American Shale Development, Inc., et al. | | EQT Production Company | | AB 51/525 | |
| | | | EQT Production Company | | DB 1228/1 | |

Code 22-6-8*

"at least 1/8th per WV

"at least 1/8th per WV

Code 22-6-81

EQT Production Company, et al. Republic Energy Ventures, LLC

Republic Partners Vill, LLC

127156000

127156000

240 ac EQT Production Company

DB 1200/1

EQT Production Company, et al. Republic Energy Ventures, LLC

Republic Partners VIII, LLC

41 ac EQT Production Company

DB 1200/1

RECEIVED
Office of Oil and Gas

WV Department of Environmental Protection AUG 2 2 2023

Ô 2 S CO



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

June 27, 2023

Mr. Taylor Brewer West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re:

Radcliff 8H Gas Well

Mannington District, Marion County, WV

Dear Mr. Brewer,

EQT Production Company is applying for a new well work permit for the well referenced above. Upon information and belief, the Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

John Zavatchan

Project Specialist - Permitting

RECEIVED
Office of Oil and Gas

AUG 2 2 2023

WV Department of Environmental Protection

4704902518

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE CERTIFICATION**

| Date of Notice Certification: 8/18/2623 | | | | API No. 47- | | | |
|---|----------------------|----------------------------|-------------------------|---------------|---|--|--|
| | _ | | Operator's Well No. 8H | | | | |
| | | | Well Pad Name: Radcliff | | | | |
| Notice has I | been given: | | | | | | |
| | | est Virginia Code § 22-6/ | A, the Operator has pro | vided the red | quired parties with the Notice Forms listed | | |
| | tract of land as fol | • | | | • | | |
| State: | West Virginia | | UTM NAD 83 | Easting: | 548,257.828 | | |
| County: | Marion | | - UTWINAD 63 | Northing: | 4,382,157.107 | | |
| District: | Mannington | | Public Road Acc | cess: | CR 4 | | |
| Quadrangle: | Glover Gap | <u>.</u> | Generally used f | farm name: | Jackie D. Radcliff and Sheila L. Radcliff | | |
| Watershed: | Bartholomew Fork | | | | | | |
| | | · | | | | | |
| prescribed by | the secretary, shall | I be verified and shall co | ntain the following inf | formation: (1 | is section shall be on a form as may be 4) A certification from the operator that (i) section (b), section ten of this article, the | | |

information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

| | |
|---|-----------------------------|
| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: | OOG OFFICE USE |
| *PLEASE CHECK ALL THAT APPLY | ONLY |
| 1. NOTICE OF SEISMIC ACTIVITY OF INDICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED | ☐ RECEIVED/ NOT REQUIRED |
| ☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED | ☐ RECEIVED |
| ■ 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or | RECEIVED/ NOT REQUIRED |
| ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | |
| 4. NOTICE OF PLANNED OPERATION | RECEIVED |
| ■ 5. PUBLIC NOTICE | RECEIVED |
| 6. NOTICE OF APPLICATION | RECEIVED RECEIVED |

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The Wata Property Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under west Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Todd Klaner , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator: EQT Production Company Address: 400 Woodcliff Drive By: Todd Klaner Canonsburg, PA 15317 Its: Facsimile: Director - Permitting 412-395-2974 Telephone: 724-746-9023 Email: tklaner@eqt.com Subscribed and sworn before me this 18th day of August 2023. NOTARY SEAL Commonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public **Beaver County** My commission expires March 9, 2024 My Commission Expires March 9, 2023 Commission number 1267706 Member, Pennsylvania Association of Notaries

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas

AUG 2 2 2023

WV Department of Environmental Protection WW-6A (9-13)

4704902518

| API NO. 47- | |
|-------------------------|-------|
| OPERATOR WELL N | O. 8H |
| Well Pad Name: Radcliff | |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

| Noti | ce Time Requirement: not | tice shall be provided no late | er than the filing date of permit application. |
|---|---|---|---|
| | of Notice: 8 1872023 Date | e Permit Application Filed | : 8/21/2623 |
| V | PERMIT FOR ANY WELL WORK | | APPROVAL FOR THE OF AN IMPOUNDMENT OR PIT |
| Deliv | very method pursuant to | West Virginia Code § 22-6 | A-10(b) |
| | PERSONAL R | EGISTERED | ETHOD OF DELIVERY THAT REQUIRES A |
| | | 3016 INCA 12 MARIE 12700 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ECEIPT OR SIGNATURE CONFIRMATION |
| sedin he su | nent control plan required by inface of the tract on which to digas leasehold being developed in the erosion and seding to or lessee, in the event the coal seams; (4) The owners work, if the surface tract is to undment or pit as described in a water well, spring or water de water for consumption by used well work activity is to to to to (b) of this section hold did of the sheriff required to be sion of this article to the control. R. § 35-8-5.7.a requires, in | well is or is proposed to be oped by the proposed well we ment control plan submitted pe tract of land on which the well of record of the surface tract to be used for the placement, or in section nine of this article; or supply source located within y humans or domestic animals take place. (c)(1) If more than it interests in the lands, the apple maintained pursuant to secutary, notice to a lien holder in part, that the operator shall a | reipt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of the located; (2) The owners of record of the surface tract or tracts overlying the ork, if the surface tract is to be used for roads or other land disturbance as ursuant to subsection (c), section seven of this article; (3) The coal owner, rell proposed to be drilled is located [sic] is known to be underlain by one or or tracts overlying the oil and gas leasehold being developed by the proposed construction, enlargement, alteration, repair, removal or abandonment of any (5) Any surface owner or water purveyor who is known to the applicant to a one thousand five hundred feet of the center of the well pad which is used to stand (6) The operator of any natural gas storage field within which the in three tenants in common or other co-owners of interests described in policant may serve the documents required upon the person described in the tion eight, article one, chapter eleven-a of this code. (2) Notwithstanding any is not notice to a landowner, unless the lien holder is the landowner. W. Va. Ilso provide the Well Site Safety Plan ("WSSP") to the surface owner and any string as provided in section 15 of this rule. |
| ☑ Aj | oplication Notice WSS | SP Notice E&S Plan No | otice Well Plat Notice is hereby provided to: |
| | RFACE OWNER(s) | | ☐ COAL OWNER OR LESSEE |
| | See Attached List | | Name: See Attached List |
| Addr | ess: | | Address: |
| Vame | e: | | COAL OPERATOR |
| Addr | ess: | | Name: |
| | | | Address: RECEIVED |
| SU | RFACE OWNER(s) (Road | and/or Other Disturbance) | Office of Oil and Gas |
| | See Attached List | | |
| Addre | ess: | | AND/OR WATER PURVEYOR(s) AUG 2 2 2023 |
| | | | Name: See Attached List AUG 2 2 2023 |
| vame | | | Address:wv_Department of |
| adre | ess: | | OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| SII | RFACE OWNER(s) (Impo | undments or Pital | |
| | 0000 | | Name: |
| | | | Address: |
| | ess: | | *Please attach additional forms if necessary |

| WW-6A | |
|--------|--|
| (8-13) | |

| APIN | 0. | 47- | | | | | | |
|----------------------|-----|-----|-----|-----|--------|---|---|---|
| OPERATOR WELL NO. 8H | | | | | | | | |
| Well | Pad | Na | me: | Rac | icliff | | | |
| 47 | 0 | 4 | 9 | 0 | 2 | 5 | 1 | 8 |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared of well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius partenating upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items 09/29/2023

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| (8-13) | |

4704902518

| API NO. 47 | |
|------------------------|---|
| OPERATOR WELL NO. 8H | |
| Weil Pad Name: Raddiff | _ |

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within the persons described in West Virginia Code § 22-6A-10(b) may file written an article may file written and the location or construction of the applicant's proposed well work to the Secretary at:

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

AUG 2 2 2023

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13)

4704902518 API NO. 47-OPERATOR WELL NO. 8H Well Pad Name: Radcliff

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED Office of Oil and Gas

AUG 2 2 2023

WV Department of Environmental Protection

| WW-6A | API NO. 47- |
|---------------------------------------|------------------------------|
| (8-13) | OPERATOR WELL NO. 8H |
| | Well Pad Name: Radcliff |
| Notice is hereby given by: | 4704902518 |
| Well Operator: EQT Production Company | Address: 400 Woodcliff Drive |
| Telephone: 724-746-9023 | Canonsburg, PA 15317 |
| Email: tklaner@eqt.com | Facsimile: 412-395-2974 |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Commonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public Beaver County My commission expires March 9, 2024 Commission number 1267706 Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 18th day of August 2023.

Rebles M. Notary Public

My Commission Expires March 9, 2024

Office of Oil and Gas

AUG 2 2 2023

August Protection

Surface Owners:

Jackie D. Radcliff and Sheila L. Radcliff 161 Cabin Creek Rd.
Mannington, WV 26582

Surface Owners (road, AST, or other disturbance):

Jason G. Stout 637 Upper Murray Rd. Mannington, WV 26582

Heather R. Stout 546 Upper Murray Rd. Mannington, WV 26582

Lula B. Knight 638 Upper Murray Rd. Mannington, WV 26582

Clarence W. Sweeney, et. al. / PO Box 219 Fairmont, WV 26555

Coal Owners:

Consol Mining Company * 1000 Consol Energy Drive Canonsburg, PA 15317

Douglas A. Gwinn 95 Sabraton Avenue Fairmont, WV 26554

Rebecca Shuttlesworth 468 Katy Road Fairmont, WV 26554

Cathie L. Ebert = 506 Katy Road Fairmont, WV 26554

Mike Ross, Inc. PO Box 219 Coalton, WV 26257

I.L. Morris PO Box 397 Glenville, WV 26351

Cynthia Ann Gamer 314 Woodridge Drive Locust Grove, GA 3024

Amy Renee Russell / 141 Lossie Lane McDonough, GA 30253

Charles Stewart 181 East Chestnut Street Blairsville, PA 15717 James R. Batson 3 Red Sky Drive Morgantown, WV 26508

Sandra F. Hulsey PO Box 238 Worthington, WV 26591

Sharon D. Wright 209 Jefferson Street Mannington, WV 26582

William Williamson 21811 Aquasco Road Aquasco, MD 20608

Water Supply Owners within 1,500':

Jason and Michelle Stout ~ 637 Upper Murray Rd. Mannington WV 26582

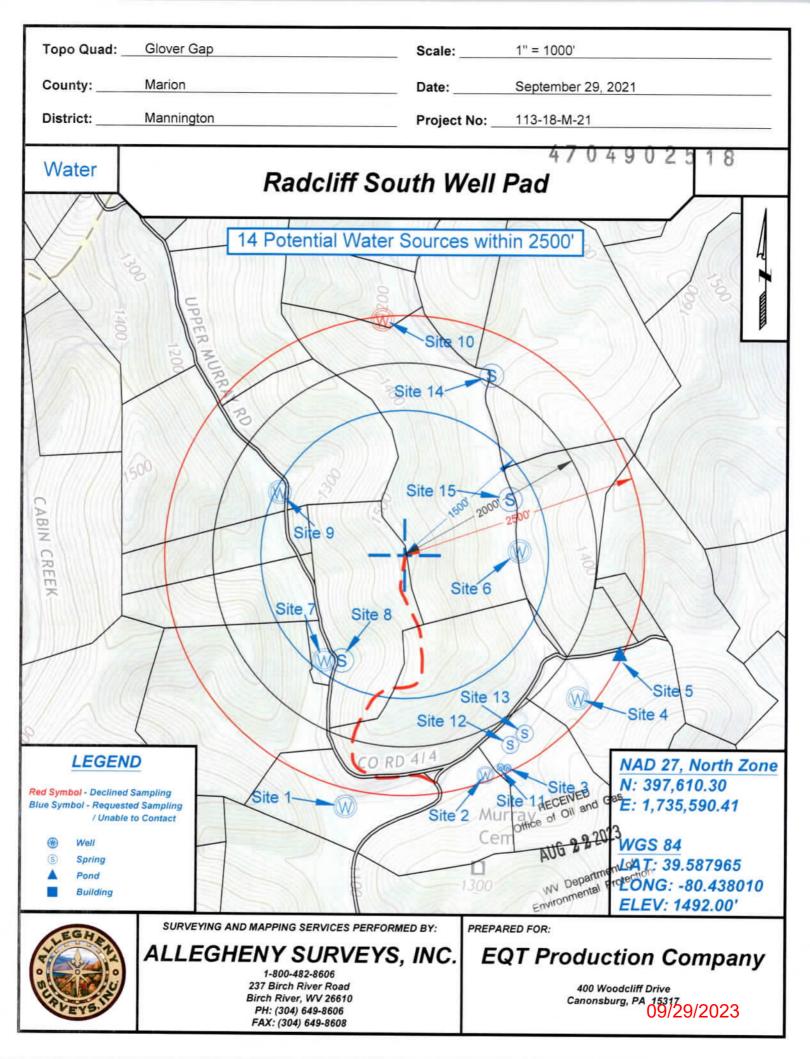
Jackie D. Raddiff and Sheila L. Raddiff 161 Cabin Creek Rd. Mannington, WV 26582

Shelly Nelson 325 Cabin Creek Rd. Mannington WV 26582

RECENED Gas
Office of Oil and Gas
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(Insert additional pages as needed)

Table 1 - Water Source Identification

| EQT Well Pad Name: Radcliff South Subm | ittal Date: 7/14/2023 | |
|--|--------------------------------|--|
| EQT Well Number: | | |
| Survey / Engineering Company: Allegheny Surveys, Inc. | | |
| Site Number: 1 Distance from Gas Well (feet): 2690.72 | | <u></u> |
| Surface Owner / Occupant: Richard Beaty (formerly Sweeney) | | andowner Requested |
| Address: 481 Upper Murray Rd. Mannington WV 26582 Phon | ne #: 304-986-2878 🔲 L | Sampling andowner Decline |
| Field Located Date: 9/27/2018 Owner home during survey (ye | es/no): Yes | Sampling Jnable to Contact |
| Coordinates: 39.345062, -80.262371 (decimal degrees – NAD | | Further contact attempts to be made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/29/2021 Door Ha | anger Left: | A 080 Q-20100 |
| Comments: Water well located behind mobile home next to | outbuilding. Very nice man. | |
| | | |
| Site Number: 2 Distance from Gas Well (feet): 2460.96 | | |
| Surface Owner / Occupant: James and Jonella Boore | 1000000 | andowner Requested |
| Address: 468 Upper Murray Rd. Mannington WV 26582 Phon | ne #: 304-986-1517 🔲 🗆 L | andowner Decline Sampling |
| Field Located Date: 9/27/2018 Owner home during survey (ye | es/no): Yes | Jnable to Contact Further contact attempts to be |
| Coordinates: 39.345410, -80.260514 (decimal degrees - NAD | | made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Ha | inger Left: | 1 15-1 10- |
| Comments: Water well located on NE side of house. Very fri | iendly. | |
| Site Number: 3 Distance from Gas Well (feet): 2485.91 | | |
| A 1 | | |
| Surface Owner / Occupant: Heather Stout | \$ | andowner Requested Sampling |
| Address: 546 Upper Murray Rd. Mannington WV 26582 Phon | | andowner Decline Sampling |
| Field Located Date: 9/27/2018 Owner home during survey (ye | es/no): No | nable at Contact |
| Coordinates: 39.345487, -80.260221 (decimal degrees - NAD 8 | 83) Office of Only | made by EQT's third party or an ampling lab) |
| Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Ha | inger Left: Yes AUG 3 | 40- |
| Comments: Spoke to friend there. Said she would ask and be in | touch. Water well located bein | nd bouse. |
| (Insert additional pages on needed) | EUNICOULIE | |

| Site Number: 4 Distance from Gas Well (feet): 2376.91 | |
|---|---|
| Surface Owner / Occupant: Winford Knight | |
| Address: 638 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1807 | Sampling Landowner Decline |
| Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes | Sampling Unable to Contact (Further contact attempts to be |
| Coordinates: 39.350209, -80.255303 (decimal degrees – NAD 83) | made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left: | |
| Comments: Water well located beside aluminum wheelchair ramp. Unable to see water well. Nice | elderly couple. |
| Site Number: 5 Distance from Gas Well (feet): 2461.76 | |
| Surface Owner / Occupant: Winford Knight | ■ Landowner Requested |
| Address: 638 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1807 | Sampling Landowner Decline Sampling |
| Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes | Unable to Contact (Further contact attempts to be |
| Coordinates: 39.350687 , -80.254806 (decimal degrees – NAD 83) | made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: | |
| Comments: Pond located. | |
| Site Number: 6 Distance from Gas Well (feet): 1231.83 | |
| Surface Owner / Occupant: Jason and Michelle Stout | |
| Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087 | Sampling Landowner Decline |
| Field Located Date: 10/08/2018 Owner home during survey (yes/no): Yes | Sampling Unable to Contact |
| Coordinates: 39.351716, -80.260111 (decimal degrees – NAD 83) | (Further contact attempts to be made by EQT's third party |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes | pre-drill sampling lab) |
| Comments: Spoke to Michelle. Said she would ask and be in touch. Located water well or | n 10/08/2018 |
| | |
| Site Number: 7 Distance from Gas Well (feet): 1367.33 | |
| Surface Owner / Occupant: Jackie Radcliff | |
| Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968 | Sampling Landowner Decline |
| Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes | Sampling Unable to Contact |
| Coordinates: 39.351716, -80.260111 (decimal degrees – NAD 83) RECEIVED | (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: 785 Comments: Water well located 9/27/2018 on upper end of house. | 2023 |
| Comments: Water well located 9/27/2018 on upper end of house. | ment of |
| 11 web | annent of tal profection |
| "WALLOW!" | |

| Site Number: 8 Distance from Gas Weil (feet): 1318.14 | |
|---|--|
| Surface Owner / Occupant: Jackie Radcliff | |
| Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968 | Sampling Landowner Decline |
| Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes | Sampling |
| Coordinates: 39.350548, -80.262547 (decimal degrees – NAD 83) | Unable to Contact (Further contact attempts to be made by EQT's third party |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: | pre-drill sampling lab) |
| Comments: Spring located next to road coming off hill. | |
| Confinents. Spring located flext to road conting on min. | |
| Site Number: 9 Distance from Gas Well (feet): 1416.84 | |
| Surface Owner / Occupant: Shelly Nelson (Formerly Sandor Frecska) | |
| Address: 325 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-1807 | Sampling Landowner Decline |
| Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes | Sampling Unable to Contact |
| Coordinates: 39.350687, -80.254806 (decimal degrees – NAD 83) | (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left: | pro driii aziripinig lab) |
| Comments: Water well located next to driveway beside garage. | |
| | |
| Site Number: 10 Distance from Gas Well (feet): 2429 | |
| Surface Owner / Occupant: EBX-EM LLC | ☐ Landowner Requested Sampling |
| Address: 6575 W Loop S Ste 300, Bellaire TX 77401 Phone #: | ☐ Landowner Decline Sampling |
| Field Located Date: Owner home during survey (yes/no): | ☐ Unable to Contact |
| Coordinates: 39.354067, -80.261879 (decimal degrees – NAD 83) | (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st: 2nd: Door Hanger Left: | |
| Comments: Property behind gate. Has water well. Formerly Henry Deem - called on 1 he had sold property. Signature page received 10/11/2021 declining sampling. Property EBX-EM LLC on 9/15/2021 (DB 1289/894). | |
| Site Number: 11 Distance from Gas Well (feet): 2448.09 | |
| Surface Owner / Occupant: Heather Stout | |
| Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577 | Sampling Landowner Decline |
| Field Located Date: 10/15/2018 Owner home during survey (yes/no): No | Sampling Unable to Contact |
| Coordinates: 39.345492, -80.260315 (decimal degrees - NAD 83) | (Further contact attempts to be made by EQT's third party |
| Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes | (Further contact (Further contact tempts to be made by EQT's third party DENE pro- configuration (Further contact) |
| | |
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| | WAN Debaument of Debaumental Division |
| ϵ | unicon. |

| Site Number: 12 Distance from Gas Well (feet): 2290.16 | |
|--|---|
| Surface Owner / Occupant: Heather Stout | ☑ Landowner Requested |
| Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577 | Sampling Landowner Decline |
| Field Located Date: 10/15/2018 Owner home during survey (yes/no): No | Sampling Unable to Contact |
| Coordinates: 39.345721 , -80.260191 (decimal degrees – NAD 83) | (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left: Yes | |
| Comments: Spring located near garage in fence line. | |
| Site Number: 13 Distance from Gas Well (feet): 2272 | |
| Surface Owner / Occupant: Heather Stout | ☐ Landowner Requested |
| Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577 | Sampling Landowner Decline Sampling |
| Field Located Date: 10/15/2018 Owner home during survey (yes/no): No | ☐ Unable to Contact (Further contact attempts to be |
| Coordinates: 39.345838, -80.260001 (decimal degrees – NAD 83) | made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1 st : 9/26/2018 2 nd : 9/30/2021 Door Hanger Left: Yes | |
| Comments: Spring in tree line next to barn. Must go through electric fence. Very | muddy. |
| Site Number: 14 Distance from Gas Well (feet): 2078.98 | |
| Surface Owner / Occupant: Jason and Michelle Stout | □ Landowner Requested □ Landowner Requested |
| Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087 | Sampling Landowner Decline |
| Field Located Date: 10/08/2018 Owner home during survey (yes/no): | Sampling Unable to Contact (Further contact attempts to be |
| Coordinates: 39.353512, -80.260514 (decimal degrees – NAD 83) | made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left; Yes | |
| Comments: Stream located on upper end of Stout's property. Very rough and mu | ıddy road. |
| Site Number: 15 Distance from Gas Well (feet): 1270.14 | |
| Surface Owner / Occupant: Jason and Michelle Stout | ☑ Landowner Requested |
| Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087 | Sampling Landowner Decline |
| Field Located Date: 10/08/2018 Owner home during survey (yes/no): | Sampling Unable to Contact (Further contact attempts to be |
| Coordinates: 39.352244, -80.260243 (decimal degrees - NAD 83) | made by EQT's third party pre-drill sampling lab) |
| Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left; Yes | WEO . GOS |
| Comments: Stream located closer to Stout's house. | on and Gen |
| 21/4 | 7 h |
| μο | Department protection |
| - NA | 09/29/2023 |
| | |

4704902518

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

| Notice Time Date of Notic | Requirement: Notice shall be provided a e: 04/27/2023 Date Pe | at least TEN (10) days prior to filing a rmit Application Filed: 8 2 12 12 5 | |
|--|--|--|---|
| Delivery met | hod pursuant to West Virginia Code § | 22-6A-16(b) | |
| ☐ HAND | ■ CERTIFIED MAIL | | |
| DELIVE | | OUESTED | |
| DELIVE | RETURN RECEIPT RE | QUESTED | |
| receipt request drilling a hor of this subsect subsection mand if availab | sted or hand delivery, give the surface ow izontal well: <i>Provided</i> , That notice giver tion as of the date the notice was provide ay be waived in writing by the surface ow le, facsimile number and electronic mail | oner notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, howerer</i> . The notice, if required, shall included address of the operator and the operator | an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements ovever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative. |
| | reby provided to the SURFACE OV | 77.5 | |
| Name: See Atta | ched List | Name: See Attached List | |
| Address: | | Address: | |
| State: County: | wner's land for the purpose of drilling a howest Virginia Marion | UTM NAD 83 Easting: Northing: | 548257.828 4382157.107 |
| District: | Mannington | Public Road Access: | CR 4/4 |
| Quadrangle: | Glover Gap | Generally used farm name: | Jackie D. Radcliff and Sheila L. Radcliff |
| Watershed: | Bartholomew Fork | | |
| Pursuant to facsimile nur | nber and electronic mail address of the | operator and the operator's authorize | ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-agy gasynges/default.aspx. |
| Notice is he | rehy given hy: | | 2023 |
| Well Operato | II: EQT Production Company | Authorized Representative: | John Zavatchan, C. 3 |
| Address: | 400 Woodcliff Drive | Address: | John Zavatchan G 400 Woodcliff Pre Canonsburg, PA 153138 Partial Protection 724-746-9073 Normanian jzavatchan@eat.com 412-395-2974 |
| | Canonsburg, PA 15317 | | Canonsburg, PA 153178Party Profis |
| Telephone: | 724-746-9073 | Telephone: | 724-746-9073 NV nment |
| Email: | jzavatchan@eqt.com | Email: | zavatchan@eat.com |
| Facsimile: | 412-395-2974 | Facsimile: | 412-395-2974 |
| | - | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Surface Owners:

Jackie D. Radcliff and Sheila L. Radcliff / 161 Cabin Creek Rd. Mannington, WV 26582

Surface Owners (road, AST, or other disturbance):

Jason G. Stout 637 Upper Murray Rd. Mannington, WV 26582

Heather R. Stout 546 Upper Murray Rd. Mannington, WV 26582

Lula B. Knight 638 Upper Murray Rd. Mannington, WV 26582

Clarence W. Sweeney, et. al. PO Box 219
Fairmont, WV 26555

Office of Oil and Gas

AUG 2 2 2023

AUG 2 2 2023

Environmental Protection

WW-6A5 (1/12) Operator Well No. Radcliff 8H

4704902518

STATE OF WEST VIRGINIA 47 0 4 9 0 2 3 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

| Notice T Date of | Time Re Notice: | quirement: notice shall be prov 8/18/2023 Date Pe | ided no rmit Ap | later than the filing opplication Filed: | late of permit : | application. |
|---|--|--|--|--|--|---|
| Deliver | y metho | d pursuant to West Virginia (| Code § 2 | 22-6A-16(c) | | |
| ■ C | FRTIFIF | ED MAIL | | HAND | | |
| | | RECEIPT REQUESTED | | DELIVERY | | |
| return re the plar required drilling damage | eceipt re- nned ope d to be pro- of a hores to the se notices | quested or hand delivery, give to eration. The notice required by rovided by subsection (b), section rizontal well; and (3) A propose surface affected by oil and gas of | he surfa this sum on ten o ed surfa peration | ace owner whose land absection shall include this article to a surfa- ace use and compensa- to the extent the da | will be used for le: (1) A copy ace owner whose ation agreement mages are comp | eation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information the land will be used in conjunction with the transcription of compensation for pensable under article six-b of this chapter. It is the time of the sheriff at the time |
| (at the a Name: | address li See Attached | | OWNE f at the | time of notice): Name: _ | | |
| Address | s: | | _ | Address | : | |
| Pursuar | on on the <u>v</u> | y given: st Virginia Code § 22-6A-16(c), e surface owner's land for the p Vest Virginia Manington Glover Gap | notice urpose | of drilling a horizonta UTM NAD 8 Public Road A | I well on the tra Easting: Northing: | well operator has developed a planned ct of land as follows: 548,257.828 4,382,157.107 CR 4/4 Jackie D. Radcliff and Sheila L. Radcliff |
| Waters | _ | artholomew Fork | | | | |
| Pursuan to be p horizon surface informa headqu | nt to West provided ntal well; affected | by W. Va. Code § 22-6A-10(I and (3) A proposed surface us by oil and gas operations to tated to horizontal drilling may ocated at 601 57th Street, SE, | to a e and con the extended be obtained and a contract the contract th | surface owner whose ompensation agreement the damages are co ained from the Secret | e land will be unt containing an ompensable und ary, at the WV | code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting |

The Office of Oil and Gas processes your personal information, such as name, address and telephone number as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Environmental Protection

Surface Owners:

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Lula B. Knight 638 Upper Murray Rd. Mannington, WV 26582

Clarence W. Sweeney, et. al. PO Box 219 Fairmont, WV 26555

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Office of Oil and Gas
AUG 222073
WV Department of Protection
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Gregory L. Bailey, P.E. Interim State Highway Engineer

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

April 24, 2023

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Radcliff Pad, Marion County Radcliff 8H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2021-0390 which has been issued to EQT Production for access to the State Road for a well site located off Marion County Route 4/4 SLS MP 0.15.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY revised March 06, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Cc: Becky Shrum **EQT Production** CH, OM, D-4

File

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AUG 2 2 2023

WV Department of Environmental Protection

Anticipated Frac Additives Chemical Names and CAS Numbers

| <u>Material</u> | Ingredient | CAS Number |
|-------------------------|---|-------------|
| Sand (Proppant) | Silica Substrate | 14808-60-7 |
| Water | Water | 7732-18-5 |
| Hydrochloric Acid (HCl) | Hydrogen Chloride | 7647-01-0 |
| Friction Reducer | Copolymer of 2-propenamide | Proprietary |
| | Petroleum Distillate | 64742-47-8 |
| | Oleic Acid Diethanolamide | 93-83-4 |
| | Alcohols, C12-16, ethoxylated | 68551-12-2 |
| | Ammonium chloride ((NH4)Cl) | 12125-02-9 |
| Biocide | Glutaraldehyde | 111-30-8 |
| | Alkyl dimethyl benzyl ammonium chloride | 68391-01-5 |
| | Didecyl dimethyl ammonium chloride | 7173-51-5 |
| | Non-hazardous substances | Proprietary |
| Scale Control | Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT) | 34690-00-1 |
| | Non-hazardous substances | Proprietary |
| Acid Chelating Agent | Citric Acid | 77-92-9 |
| Corrosion Inhibitor | Methanol | 67-56-1 |
| | pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides | 68909-18-2 |
| | Nonoxynoi-9 | 127087-87-0 |
| | 2-ethyl-1-hexanol | 104-76-7 |
| | 4-nonylphenyl, ethoxylated | 26027-38-3 |

AUG 2 2 2023

We became of environmental Projection

WW-6A7 (6-12)

| OPERATOR:_ | EQT Production Company | WELL NO: 8H |
|-----------------------------|------------------------|--------------|
| PAD NAME:_ | Radcliff | |
| REVIEWED BY: John Zavatchan | | _ SIGNATURE: |

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

| Well Restri | ctions |
|--------------|--|
| \checkmark | At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR |
| | DEP Waiver and Permit Conditions |
| \checkmark | At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR |
| | DEP Waiver and Permit Conditions |
| \checkmark | At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR |
| | DEP Waiver and Permit Conditions |
| \checkmark | At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR |
| | Surface Owner Waiver and Recorded with County Clerk, OR |
| | DEP Variance and Permit Conditions |
| \checkmark | Contagnation of the Pad: OR |
| | Surface Owner Waiver and Recorded with County Clerk, OR We 22 2003 DEP Variance and Permit Conditions |
| | Surface Owner Waiver and Recorded with County Clerk, OK DEP Variance and Permit Conditions DEP Variance and Permit Conditions WV Department of Environmental Protection |
| \checkmark | At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR |
| | Surface Owner Waiver and Recorded with County Clerk, OR |
| | DEP Variance and Permit Conditions |