



 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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, June 7, 2019
 WELL WORK PERMIT
 Horizontal 6A / Re-Work

EQT PRODUCTION COMPANY
 625 LIBERTY AVE., SUITE 1700
 PITTSBURGH, PA 15222

Re: Permit approval for 516240
 47-017-06748-00-00

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- 0450.

James A. Martin
 Chief

Operator's Well Number: 516240
 Farm Name: WETZEL, CATHY
 U.S. WELL NUMBER: 47-017-06748-00-00
 Horizontal 6A Re-Work
 Date Issued: 6/7/2019

PERMIT CONDITIONS

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

1. 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.
2. 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.
3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
5. 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.
6. 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.

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: OXF43
County: Doddridge

January 24, 2019

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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 Doddridge County, WV prior to hydraulic fracturing at the following EQT wells on 516238 (OXF43H30), 516240 (OXF43H31), OXF43H34 and OXF43H35.

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:

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

2. Reporting

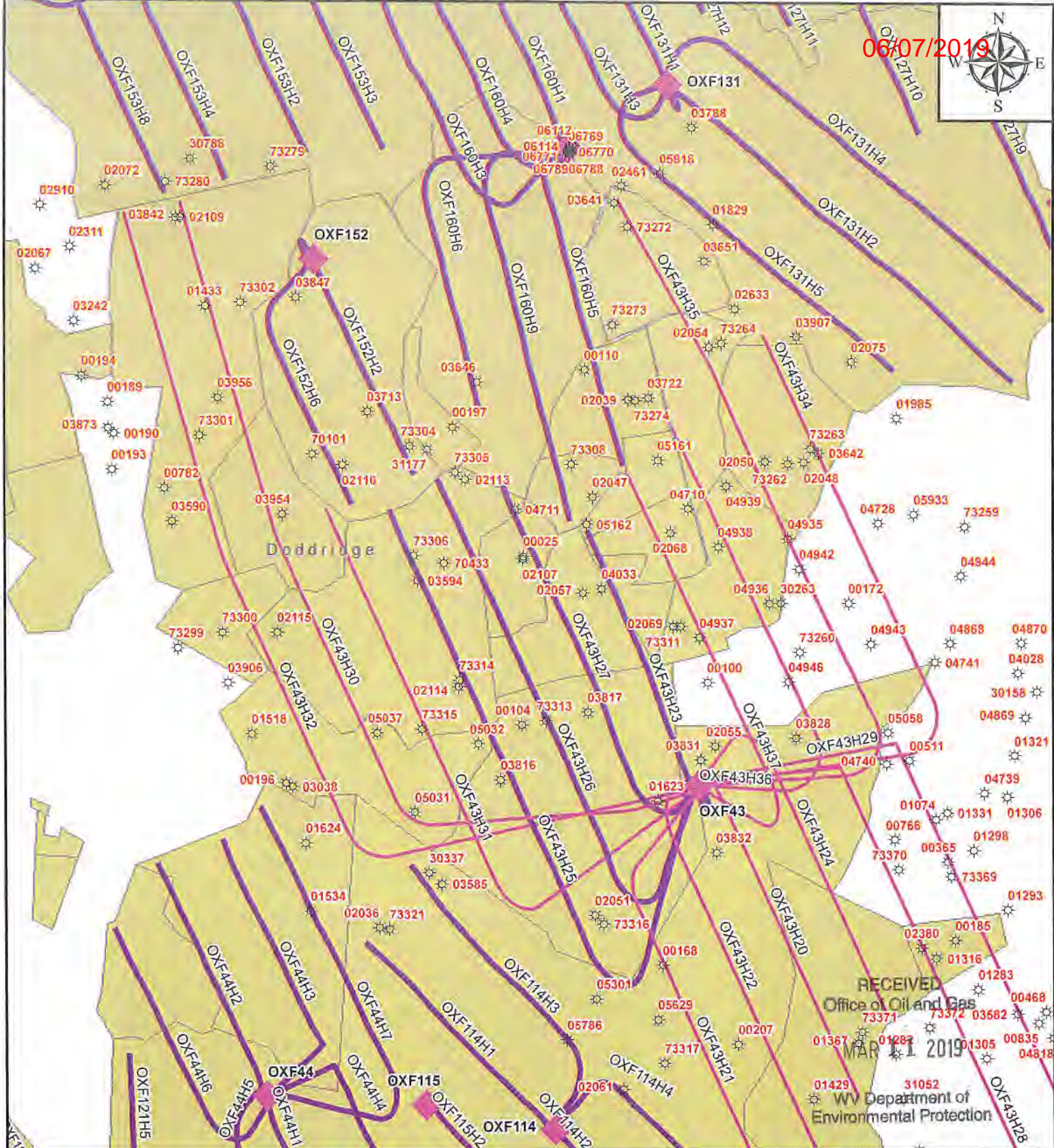
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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06/07/2019



EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

OXF 43 - North

Vertical Offsets and
Foreign Laterals
within 1500'

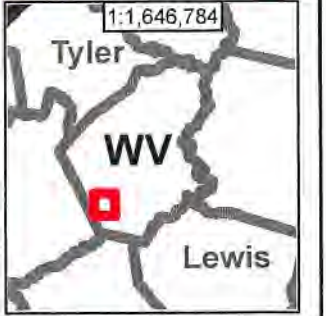
Legend

- Offset Well
- Pad
- Genesee Spud
- Genesee Planned
- Marcellus Spud
- Marcellus Planned
- Utica Spud
- Utica Planned
- EQT Lease
- County

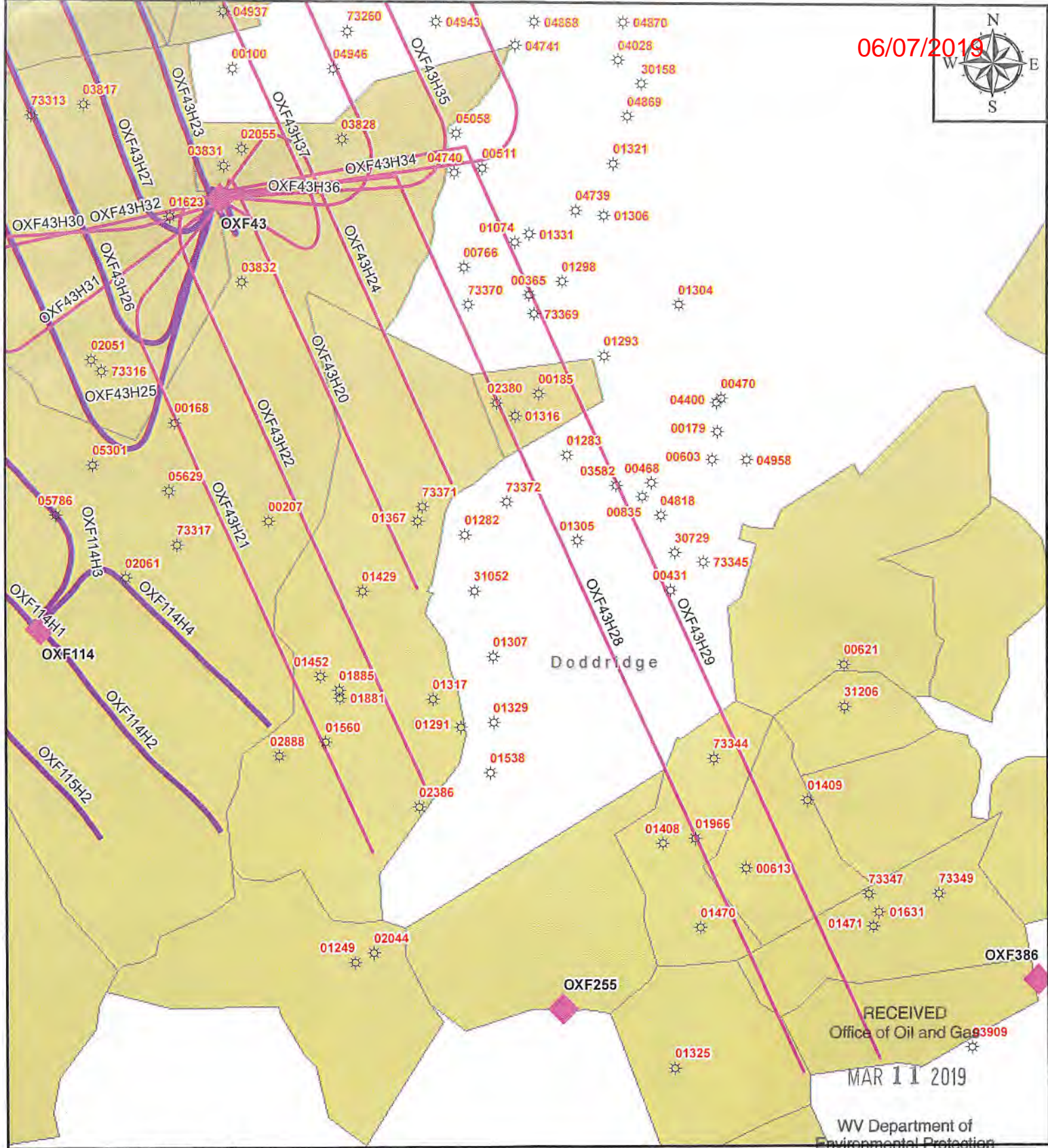


Disclaimer:

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



06/07/2019



Doddridge

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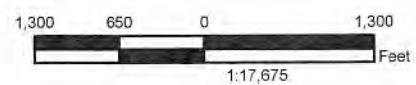
EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

OXF 43 - South

Vertical Offsets and Foreign Laterals within 1500'

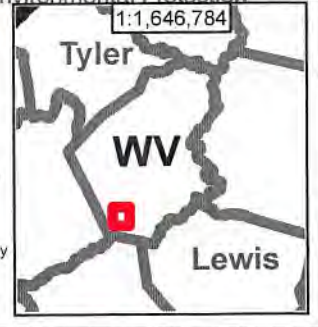
Legend

- Offset Well
- Pad
- Genesee Spud
- Genesee Planned
- Marcellus Spud
- Marcellus Planned
- Ulica Spud
- Ulica Planned
- EQT Lease
- County



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06/07/2019

Well Operator's Report of Well Work



Well Number: 516240

API: 47 - 017 - 06748

Submission: Initial Amended

Notes: EQT has set 13-3/8" casing to 558' and cemented to surface with 520 sks of Class A cement. In the future, EQT plans to return to drill the remaining sections of the wellbore then complete stimulation operations and start production.

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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-017-06748 County DODDRIDGE District SOUTH WEST / COVE
Quad OXFORD Pad Name OXF43 Field/Pool Name N/A
Farm name Cathy Jean Wetzel, et. al. Well Number 516240
Operator (as registered with the OOG) EQT Production Company
Address 115 Professional Place, PO Box 280 City Bridgeport State WV Zip 26330

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,334,223.84 Easting 517,913.36
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing N/A Easting N/A

Elevation (ft) 1229 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s) N/A

Date permit issued 08/30/2016 Date drilling commenced 08/04/2017 Date drilling ceased 08/04/2017
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 70,221,307,382 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 321 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by: _____

MAR 26 2019

WR-35
Rev. 8/23/13

Page ___ of ___

API 47-017 - 06748

Farm name Cathy Jean Wetzel, et. al.

Well number 516240

| CASING STRINGS | Hole Size | Casing Size | Depth | New or Used | Grade w/ft | Basket Depth(s) | Did cement circulate (Y/N) * Provide details below* |
|---------------------------|-----------|-------------|-------|-------------|-------------|-----------------|--|
| Conductor | 30" | 26" | 40' | NEW | A-500 85.6# | N/A | Y |
| Surface | 17-1/2" | 13-3/8" | 558' | NEW | J-55 54.5# | 200' | Y |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | | | | | | | |
| Tubing | | | | | | | |
| Packer type and depth set | | | | | | | |

Comment Details No issues during cement job.

| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³ /sks) | Volume (ft ³) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|-----------------|-----------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor | CLASS A | 49 | 15.6 | 1.18 | 57.82 | 0 | 8 |
| Surface | CLASS A | 520 | 15.6 | 1.20 | 624 | 0 | 8 |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | | | | | | | |
| Tubing | | | | | | | |

Drillers TD (ft) 908' MD

Loggers TD (ft) N/A

Deepest formation penetrated WAYESBURG A

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) N/A

Check all wireline logs run
 caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall
 Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING CONDUCTOR: NONE

SURFACE ON SHOE TRACK AND EVERY 500 FEET TO SURFACE

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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API 47- 017 - 06748

Farm name Cathy Jean Wetzel, et. al.

Well number 516240

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
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Please insert additional pages as applicable.

API 47- 017 - 06748

Farm name FRANKLIN MAXWELL HEIRS L.P.

Well number 516240

PRODUCING FORMATION(S)

DEPTHS

| | TVD | MD |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow

OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd
GAS MEASURED BY Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP | BOTTOM | TOP | BOTTOM | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|--|
| | DEPTH IN FT NAME TVD | DEPTH IN FT TVD | DEPTH IN FT MD | DEPTH IN FT MD | |
| | 0 | | 0 | | |
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Please insert additional pages as applicable.

Drilling Contractor Decker Drilling
Address 11585 State Route 676 City Vincent State OH Zip 45784

Logging Company Gyrodatta Inc.
Address 601 Mayer St. City Bridgeville State PA Zip 15017

Cementing Company BJ Services, LLC
Address 4000 Town Center Blvd, Suite 210 City Cannonsburg State PA Zip 15317

Stimulating Company _____
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Daniel Doebereiner Telephone (412) 395-3205
Signature *[Signature]* Title Director of Drilling Date 03/20/2019 **RECEIVED**
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06/07/2019

WR-35
Rev. 8/23/13

Page ___ of ___

API 47-017 - 06748 Farm name Cathy Jean Wetzel, et. al. Well number 516240

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

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| Well# 516240 Final Formations API# 47-017-06748-00-00 | | | | |
|---|---------------------|------------------------|---------------------|------------------------|
| Formation Name | Drill Top MD (ftKB) | Drill Top (TVD) (ftKB) | Drill Btm MD (ftKB) | Drill Btm (TVD) (ftKB) |
| SAND / SHALE | 1 | 1 | 321 | 321 |
| WAYNESBURG A | 321 | 321 | 322 | 322 |
| SAND / SHALE | 322 | 322 | 608 | 608 |
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06/07/2019



Where energy meets innovation.

EQT PRODUCTION

Doddridge County, WV

OXF43

OXF43H31 (516240) - Slot 516240

Main

Design: 516240 As Drilled

Standard Survey Report

19 March, 2019

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EQT
Survey Report

| | |
|---|--|
| Company: Project: Well: Wellbore: Design: | Local Coordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: |
|---|--|

Project: [Redacted]

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | West Virginia North 4701 | | |

Site

| | | | | | |
|------------------------------|------------|---------------------|--------------------|--------------------------|-----------|
| Site Position: | | Northing: | 241,913,000 usft | Latitude: | 39.16 |
| From: | Map | Easting: | 1,633,421,760 usft | Longitude: | -80.79 |
| Position Uncertainty: | 0.000 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | -0.8245 " |

Well

| | | | | | | |
|-----------------------------|-------------|------------|----------------------------|--------------------|----------------------|----------------|
| Well Position | +N-S | 0.000 usft | Northing: | 241,912,410 usft | Latitude: | 39.1569491 |
| | +E-W | 0.000 usft | Easting: | 1,633,390,990 usft | Longitude: | 80.7928434°W |
| Position Uncertainty | | 0.000 usft | Wellhead Elevation: | 0.000 usft | Ground Level: | 1,229.000 usft |

Wellbore

| | |
|----------|------------|
| Wellbore | [Redacted] |
|----------|------------|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (µT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| | IGRF2015 | 11/15/2015 | -8.4430 | 66.6074 | 52,045.62994983 |

Design

Audit Notes:

| | | | | | |
|--------------------------|-----|--------------------------------|--------------------|----------------------|----------------------|
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.000 |
| Vertical Section: | | Depth From (TVD) (usft) | +N-S (usft) | +E-W (usft) | Direction (°) |
| | | 0.000 | 0.000 | 0.000 | 124.488 |

Survey Program

| From (0) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|----------|-----------|----------------------|------------|--|
| 0.00 | 608.000 | Gyrodata Gyro (Main) | G_YD_DF_MS | Updated 06/27 Gyrodata Continuous Tool Including GyroCompass adj |

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Deg/leg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------------|-----------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|--------------------------|------------------------|-----------------------|
| 0.000 | 0.000 | 0.000 | 0.000 | -1,242.000 | 0.000 | 0.000 | 0.000 | 0.00000 | 0.00000 | 0.00000 |
| 100.000 | 0.090 | 95.230 | 100.000 | -1,142.000 | -0.007 | 0.078 | 0.069 | 0.09000 | 0.09000 | 0.00000 |
| 200.000 | 0.080 | 124.740 | 200.000 | -1,042.000 | -0.054 | 0.214 | 0.207 | 0.04436 | -0.01000 | 29.51000 |
| 300.000 | 0.140 | 111.850 | 300.000 | -942.000 | -0.140 | 0.384 | 0.396 | 0.08447 | 0.08000 | -12.79000 |
| 400.000 | 0.040 | 155.790 | 400.000 | -842.000 | -0.217 | 0.512 | 0.545 | 0.11455 | -0.10000 | 43.84000 |
| 500.000 | 0.070 | 175.840 | 499.999 | -742.000 | -0.310 | 0.531 | 0.613 | 0.03521 | 0.03000 | 20.05000 |
| Final Gyro Survey=570' MD/TVD | | | | | | | | | | |
| 570.000 | 0.040 | 153.450 | 569.999 | -672.001 | -0.374 | 0.545 | 0.661 | 0.05195 | -0.04286 | -31.98572 |

Projection to Current TD=801' MD/11'D - 616240 East LP - 8.1 S116240 Pct. TD2 90

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EQT
Survey Report

| | | | |
|----------|-----------------|-----------------------------|-------------------|
| Database | EQT Database | Local Coordinates Reference | WGS 1984 |
| Company | EQT PRODUCTIONS | TD Reference | MD |
| Project | Washoe Blaine | MD Reference | MD |
| Site | EQT | North Reference | MD |
| Well | Washoe Blaine | Survey Calculation Method | Minimum Curvature |
| Wellbore | MD | | |
| Design | Design/Well | | |

| Measured Depth (feet) | Magnation (") | Azimuth (") | Vertical Depth (feet) | Submer Depth (feet) | -N/S (feet) | -E/W (feet) | Vertical Section (feet) | Logging Rate (1000feet) | Build Rate (1000feet) | Turn Rate (1000feet) |
|-----------------------|---------------|-------------|-----------------------|---------------------|-------------|-------------|-------------------------|-------------------------|-----------------------|----------------------|
| 608.000 | 0.040 | 153.450 | 607.899 | -634.001 | -0.398 | 0.557 | 0.684 | 0.00000 | 0.00000 | 0.00000 |

| Measured Depth (feet) | Vertical Depth (feet) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|-------------|--------------------------------------|
| | | -N/S (feet) | -E/W (feet) | |
| 570.000 | 569.899 | -0.374 | 0.545 | Final Gyro Survey=570' MD/TVD |
| 608.000 | 607.899 | -0.398 | 0.557 | Projection to Current TD=608' MD/TVD |

Checked By: _____ Approved By: _____ Date: _____

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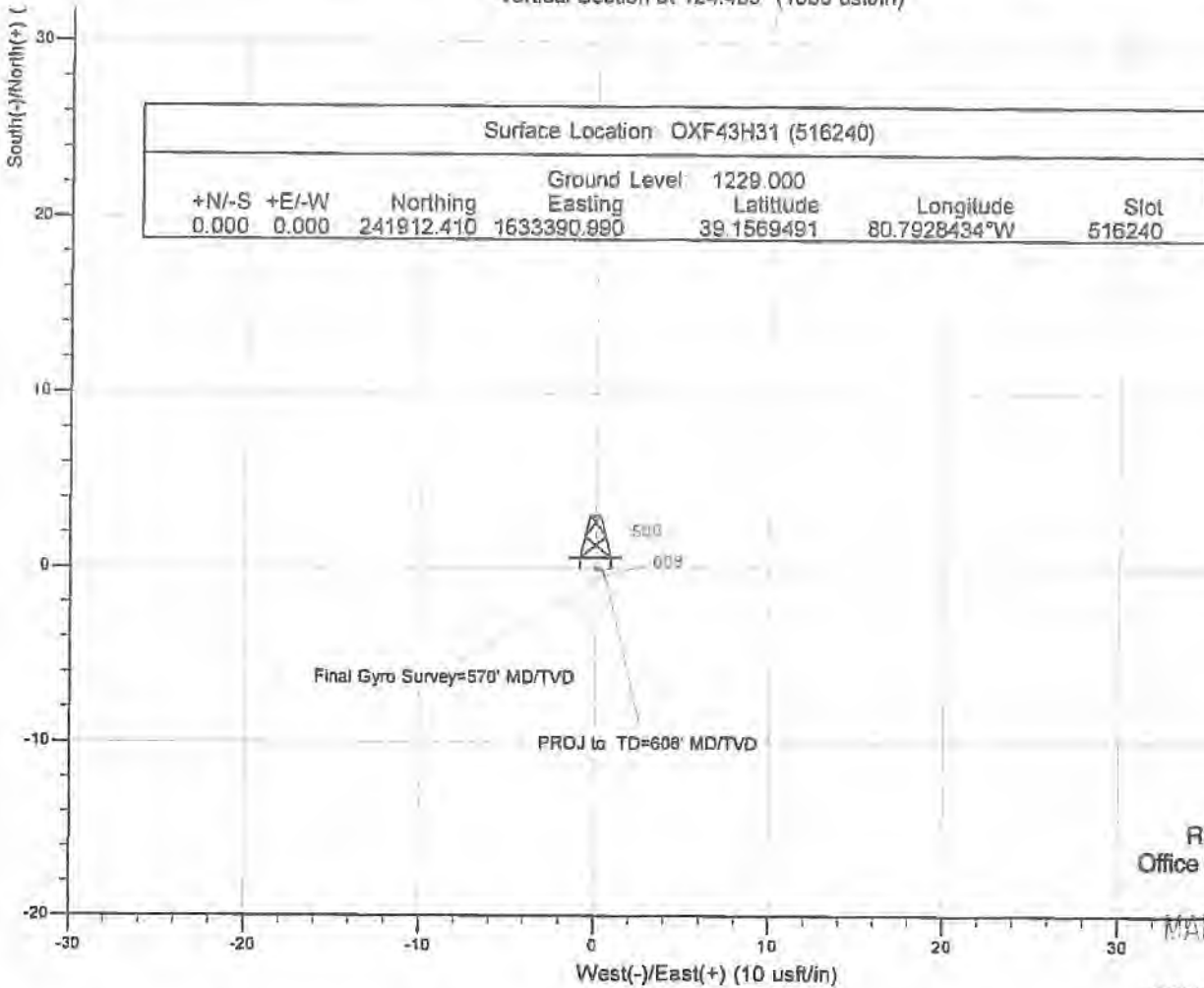
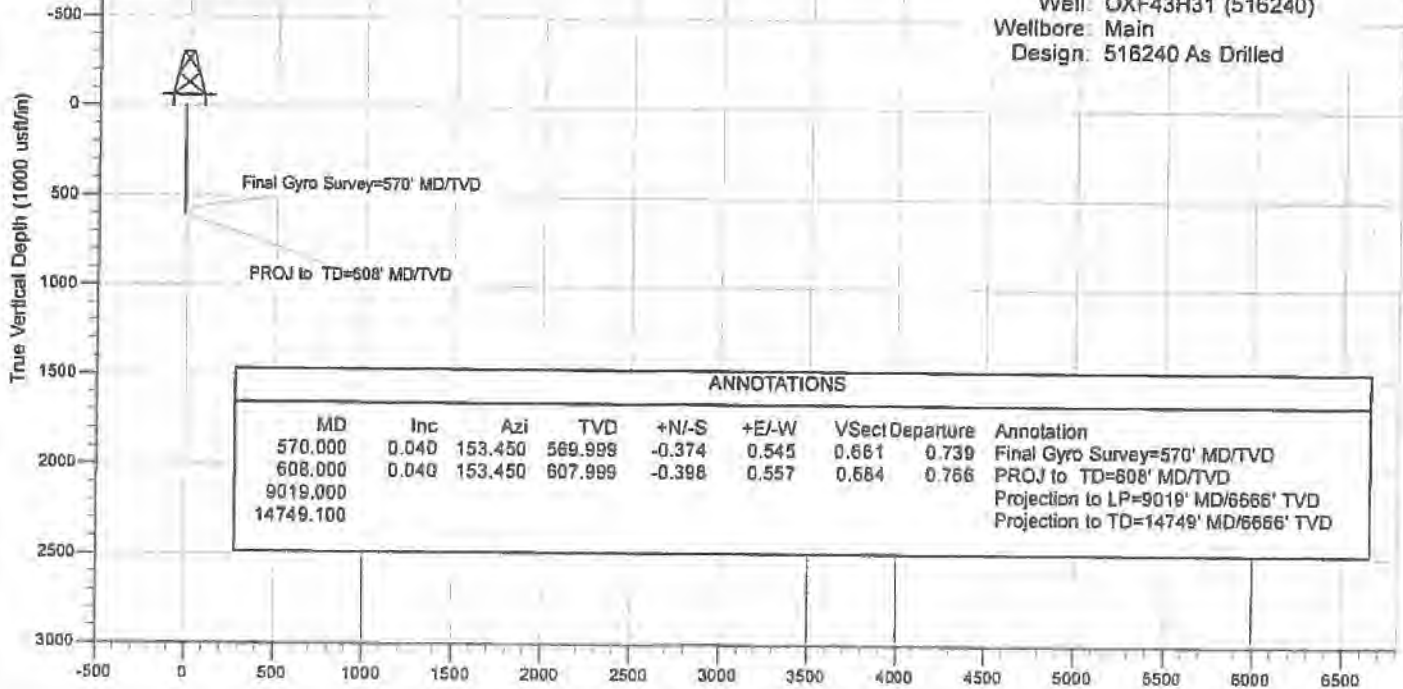
06/07/2019

KB Elevation= KB@13 @ 1242.000usft
Ground Elevation= 1229.000
All measurements were taken from KB Elevation

EQT PRODUCTION

Project: Doddridge County, WV
Site: OXF43
Well: OXF43H31 (516240)
Wellbore: Main
Design: 516240 As Drilled

Where energy needs information



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

1) Well Operator: EQT Production Company 306686 Doddridge South West/Cove Oxford
Operator ID County District Quadrangle

2) Operator's Well Number: 516240 (OXF43H31) Well Pad Name: OXF43

3) Farm Name/Surface Owner: Cathy Jean Wetzel, et. al. Public Road Access: RT. 20

4) Elevation, current ground: 1,229' Elevation, proposed post-construction: 1,229' (Site Built)

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation: Marcellus Depth: 6,666 Anticipated Thickness: 56' Anticipated Target Pressure: 2,951 PSI

8) Proposed Total Vertical Depth: 6,666'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,749'

11) Proposed Horizontal Leg Length: 5730

12) Approximate Fresh Water Strata Depths: 70', 221', 307', 382'

13) Method to Determine Fresh Water Depths: By offset wells

14) Approximate Saltwater Depths: None present in offset wells

15) Approximate Coal Seam Depths: 322'

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

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PAC
3/16/19

WW-6B
(04/15)

06/07/2019
API NO. 47- 017 - 06748
OPERATOR WELL NO. 516240 (OXF43H31)
Well Pad Name: OXF43

18)

CASING AND TUBING PROGRAM

| <u>TYPE</u> | <u>Size (in)</u> | <u>New or Used</u> | <u>Grade</u> | <u>Weight per ft. (lb/ft)</u> | <u>FOOTAGE: For Drilling (ft)</u> | <u>INTERVALS: Left in Well (ft)</u> | <u>CEMENT: Fill-up (Cu. Ft.)/CTS</u> |
|--------------|------------------|--------------------|--------------|-------------------------------|-----------------------------------|---|--------------------------------------|
| Conductor | 26 | New | A-500 | 85.6 | 40 | 40 | 49 ft ³ / CTS |
| Fresh Water | 13 3/8 | New | J-55 | 54.5 | 558 | 558 | 568 ft ³ / CTS |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | New | P-110 | 40 | 5323 | 5323 | 2106 ft ³ / CTS |
| Production | 5 1/2 | New | P-110 | 20 | 14749 | 14749 | 500' above top producing zone |
| Tubing | 2 3/8 | | J-55 | 4.7 | | May not be run, if run set 40' above top per for 80° inclination. | |
| Liners | | | | | | | |

| <u>TYPE</u> | <u>Size (in)</u> | <u>Wellbore Diameter (in)</u> | <u>Wall Thickness (in)</u> | <u>Burst Pressure (psi)</u> | <u>Anticipated Max. Internal Pressure (psi)</u> | <u>Cement Type</u> | <u>Cement Yield (cu. ft./k)</u> |
|--------------|------------------|-------------------------------|----------------------------|-----------------------------|---|--------------------|---------------------------------|
| Conductor | 26 | 30 | .312 | 1378 | 18 | Class A | 1.18 |
| Fresh Water | 13 3/8 | 17 1/2 | .38 | 2700 | 2160 | See Variance | 1.19 |
| Coal | | | | | | | |
| Intermediate | 9 5/8 | 12 3/8 | .395 | 7900 | 3160 | See Variance | 1.19 |
| Production | 5 1/2 | 8 1/2 | .361 | 12640 | 10112 | Class A/H | 1.123/2.098 |
| Tubing | 2 3/8 | NA | .19 | 7700 | | | |
| Liners | | | | | | | |

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PACKERS

| | | | | |
|-------------|--|--|--|--|
| Kind: | | | | |
| Sizes: | | | | |
| Depths Set: | | | | |

Daf
3/16/19

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Continuation of drilling of a horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 4430'. 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 10000 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 400,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): _____

22) Area to be disturbed for well pad only, less access road (acres): _____

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 joint from production casing shoe to KOP

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

Conductor: Class A no additives
Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries.
Production:
Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix) .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calcium Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 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.

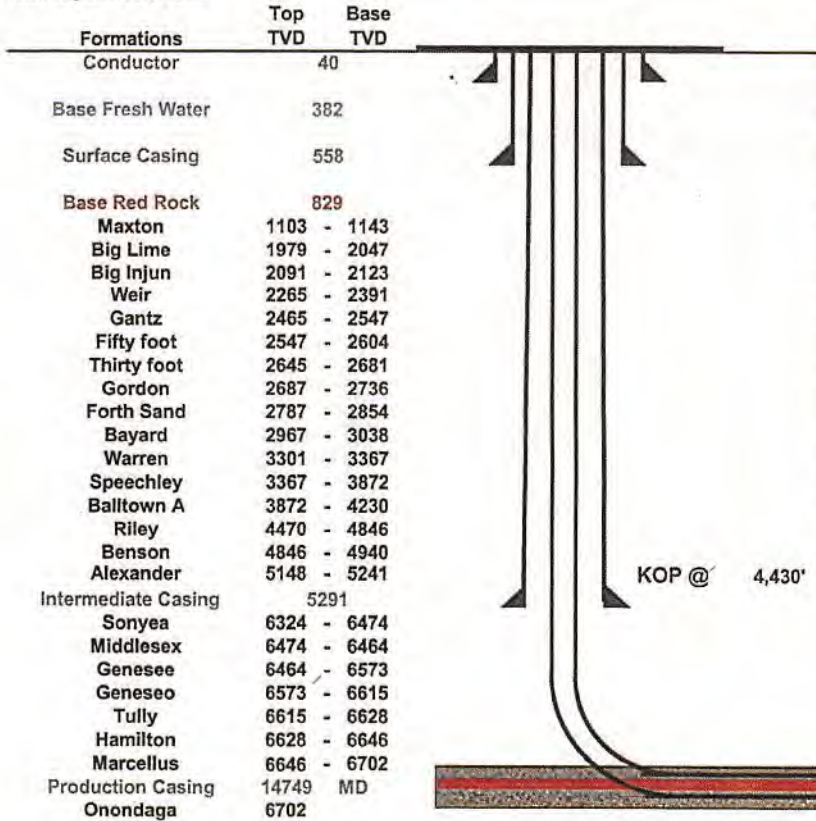
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3/16/19

Well 516240(OXF43H31)

EQT Production
Oxford Quad
Doddridge County, WV

Azimuth 336
 Vertical Section 6536
 Enertia # 516240

Note: Diagram is not to scale



| Casing and Cementing | | | Deepest Fresh Water: 382' | |
|----------------------------|--------------|------------------|---------------------------|---|
| Type | Conductor | Surface | Intermediate | Production |
| Hole Size, In. | 30 | 17 1/2 | 12 3/8 | 8 1/2 |
| Casing Size, OD In. | 26 | 13 3/8 | 9 5/8 | 5 1/2 |
| Casing Wall Thickness, In. | 0.312 | 0.380 | 0.395 | 0.361 |
| Depth, MD | 40' | 558' | 5,323' | 14,749' |
| Weight | 85.6# | 54.5# | 40# | 20# |
| Grade | A-500 | J-55 | P-110 | P-110 |
| New or Used | New | New | New | New |
| Burst (psi) | 1378 | 2,700 | 7,900 | 12,640 |
| Cement Class | A | A / Type 1 | A / Type 1 | A / H |
| Cement Yield | 1.18 | 1.19 | 1.19 | 1.123 / 2.098 |
| Top of Cement (Planned) | Surface | Surface | Surface | 500' above top Producing Zone |
| Method | Displacement | Displacement | Displacement | Displacement |
| Est. Volume (cu ft) | 49 | 568 | 2,106 | 3,212 |
| Possible Additives | N/A | Calcium Chloride | Calcium Chloride | Calcium Carbonate, Fluid Loss Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent |

Land curve @ 6,666' TVD 9,019' MD Est. TD @ 6,666' TVD 14,749' MD

5,730' Lateral

Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 4430'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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March 6, 2019

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

Re: Casing on 516240 (OXF43H31)

Dear Mr. Brewer,

EQT has set the 13-3/8" surface casing at 558' KB, 176' below the deepest fresh water. We will set the 9-5/8" intermediate string at 5,291' KB, 50' below the base of the Alexander formation.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Zavatchan'.

John Zavatchan
Landman - Permitting

Enc.

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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
dcp.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.

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.



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

2.) 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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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.

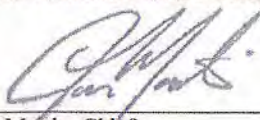
ORDER

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

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WW-9
(4/16)

06/07/2019

API Number 47 - 017 - 06748

Operator's Well No. 516240 (OXF43H31)

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Middle Fork Hughes River Quadrangle Oxford

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 0014, 8462, 4037)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site 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, 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 drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) John Zavatchan

Company Official Title Landman - Permitting

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Subscribed and sworn before me this 8 day of March, 20 19

[Signature] Notary Public

My commission expires 8/21/2022



PAF
3/14/19

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 oil based 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. Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

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EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

| Temporary | | Permanent | |
|---------------|----------|---------------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| KY-31 | 40 | Orchard Grass | 15 |
| Alsike Clover | 5 | Alsike Clover | 5 |
| Annual Rye | 15 | | |

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *[Signature]*

Comments: _____

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Title: Oil & Gas Inspector Date: 3/12/19

Field Reviewed? Yes No

| EQT Production Water Plan | | | | | | | | | |
|--|-----------------------------|------------|----------------|-------|-------|------------------------------|--------------|-------|--|
| Offsite Disposals for Unconventional Wells | | | | | | | | | |
| Facility Name | Address | Address 2 | City | State | Zip | Phone | County | State | Permit Number |
| CWS Trucking Inc. | P.O. Box 391 | | Williamstown | WV | 26187 | 740-516-3586 | Noble | OH | 3390 |
| Broad Street Energy LLC | 37 West Broad Street | Suite 1100 | Columbus | OH | 43215 | 740-516-5381 | Washington | OH | 8462 |
| LAD Liquid Assets Disposal Inc. | 226 Rankin Road | | Washington | PA | 15301 | 724-350-2760 | Ohio | WV | USEPA WV 0014 |
| Triad Energy | PO Box 430 | | Reno | OH | 45773 | 740-516-6021 740-374-2940 | Noble | OH | 4037 |
| Tri County Waste Water Management, Inc. | 1487 Toms Run Road | | Holbrook | PA | 15341 | 724-627-7178 724-499-5647 | Greene | PA | TC-1009 |
| King Excavating Co. Advance Waste Services | 101 River Park Drive | | New Castle | PA | 16101 | | Lawrence | PA | PAR000029132 |
| Waste Management - Meadowfill Landfill | Rt. 2, Box 68 Dawson Drive | | Bridgeport | WV | 16330 | 304-326-6027 | Harrison | WV | SWF-1032-98 Approval #100785WV |
| Waste Management - Northwestern Landfill | 512 E. Dry Road | | Parkersburg | WV | 26104 | 304-428-0602 | Wood | WV | SWF-1025 WV-0109400 |
| APEX Landfill | 11 County Road 78 | PO Box 57 | Amsterdam | OH | 43903 | 740-543-4389 | Jefferson | OH | 06-08438 |
| Advanced Disposal - Chestnut Valley Landfill | 1184 McClellandtown Road | | McClellandtown | PA | 15458 | 724-437-7336 | Fayette | PA | 100419 |
| Westmoreland Sanitary Landfill | 901 Tyrol Boulevard | | Belle Vernon | PA | 15012 | 724-929-7694 | Westmoreland | PA | 100277 |
| Austin Master Services | 801 North 1st Street | | Martins Ferry | OH | 43935 | 740-609-3800 | Belmont | OH | 2014-541 |
| Belmont Solids Control | 77505 Cadiz-New Athers Road | | Cadiz | OH | 43907 | 740-942-1739 | Harrison | OH | 2015-511 |
| Diversified Resources | 3111 Braun Rd. | | Belpre | OH | 45714 | 740-401-0413 | Washington | OH | |
| Buckeye Brine | 23986 Airport Road | | Coshocton | OH | 43812 | 740-610-1512 724-591-4393 | Coshocton | OH | 34-031-27177 34-031-27178 34-031-27241 |
| Central Environmental Services | 28333 West Belpre Pike | | Coolville | OH | 45723 | 304-488-0701 | Athens | OH | |
| Nuverra - Nichols | 10555 Veto Road | | Belpre | OH | 45714 | 330-232-5041 | Washington | OH | 34-119-2-8776 |
| Nuverra - Goff | 9350 East Pike Road | | Norwich | OH | 43767 | 330-232-5041 | Muskingum | OH | 34-167-2-3862 |
| Nuverra - Wolf | 5480 State Route 5 | | Newton Falls | OH | 44444 | 330-232-5041 | Trumbull | OH | 34-155-2-1893 |
| Nuverra - Pander | 5310 State Route 5 | | Newton Falls | OH | 44444 | 330-232-5041 | Trumbull | OH | 34-155-2-3795 |
| Nuverra - AnnaRock D-1 | 3549 Warner Road | | Fowler | OH | 44418 | 330-232-5041 | Trumbull | OH | 34-155-2-2403 |

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| | | | | | | | | | |
|------------------------|----------------------|--|-------------|----|-------|--|------------|----|--|
| FQ Helen | 199 Bowersock Road | | Reno | OH | 45773 | 740-374-2940 412-443-4397 740-236-2135 | Washington | OH | 34-167-2-9577 |
| FQ Dexter | 38505 Marietta Rd. | | Dexter City | OH | 45727 | 740-374-2940 412-443-4397 740-236-2135 | Noble | OH | 34-121-24037 34-121-24086 |
| FQ Ritchie | 122 Lonesome Pine Rd | | Ellenboro | WV | 26346 | 740-374-2940 412-443-4397 740-236-2135 | Ritchie | WV | 47-085-09721 |
| FQ Mills | 53610 TS Rd 706 | | Portland | OH | 45770 | 740-374-2940 412-443-4397 740-236-2135 | Meigs | OH | 34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651 |
| Petta Enterprises - OH | 745 North 3rd Street | | Cambridge | OH | 43725 | 614-477-1368 | Guernsey | OH | Ohio Chiefs Order 25-019 |
| Petta Enterprises - WV | 38 Technology Dr. | | Tridelpia | WV | 26059 | 740-255-5727 | Ohio | WV | |
| Deep Rock Disposal | 2341 OH-821 | | Marietta | OH | 45750 | 304-629-0176 | Washington | OH | 34-167-2-9766 |

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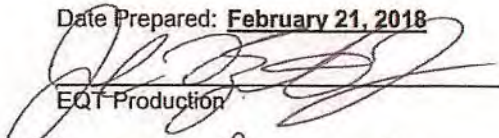
Site Specific Safety and Environmental Plan

EQT
OXF43 Pad
West Union
Doddridge County, WV

For Wells:

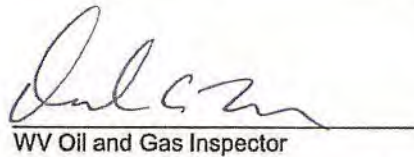
516238 516240 OXF43H34 OXF43H35
(OXF43H30) (OXF43H31)

Date Prepared: **February 21, 2018**


EQT Production

Lawman Permitting
Title

316119
Date


WV Oil and Gas Inspector

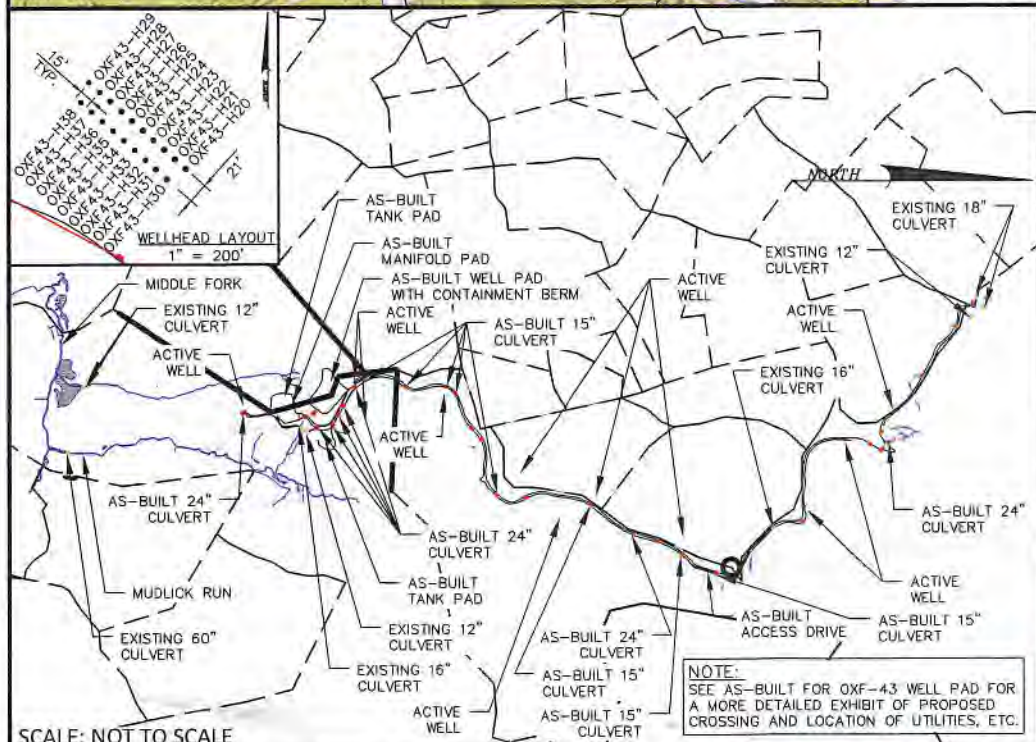
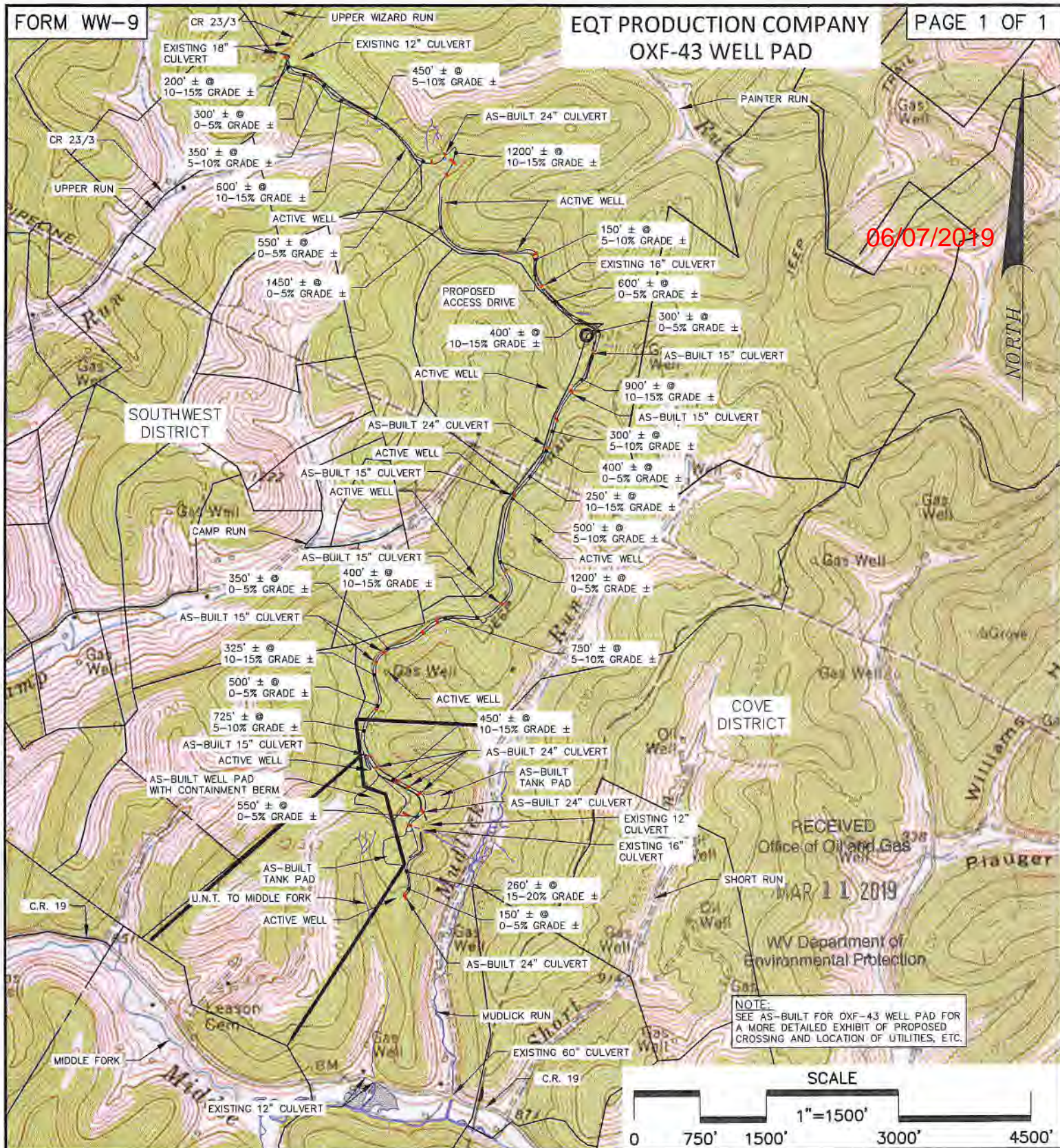
Oil + Gas Inspector
Title

3/11/19
Date

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ALL ROADS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV DEP OIL AND GAS BMP MANUAL. ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV DOT REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY DOT.

APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV DEP OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED AND MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT AND STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

- = AS-BUILT CULVERT 18" MIN UNLESS OTHERWISE NOTED
- = EXISTING CULVERT
- = APPROXIMATE LIMIT OF DISTURBANCE

**CONSTRUCTION AND RECLAMATION PLAN
OXF-43 WELL PAD**

SOUTHWEST TAX DISTRICT

DODDRIDGE COUNTY, WV



RETTEW
RETTEW Associates, Inc.
One Robinson Plaza,
Suite 200
6600 Steubenville Pike,
Pittsburgh, PA 15205

DRAWN BY: DAW
DATE: 4/27/18
SCALE: AS NOTED

EQT Production Water Plan

Offsite Disposals for Unconventional Wells

| Facility Name | Address | Address 2 | City | State | Zip | Phone | County | State | Permit Number |
|--|-----------------------------|------------|----------------|-------|-------|------------------------------|--------------|-------|--|
| CWS Trucking Inc. | P.O. Box 391 | | Williamstown | WV | 26187 | 740-516-3586 | Noble | OH | 3390 |
| Broad Street Energy LLC | 37 West Broad Street | Suite 1100 | Columbus | OH | 43215 | 740-516-5381 | Washington | OH | 8462 |
| LAD Liquid Assets Disposal Inc. | 226 Rankin Road | | Washington | PA | 15301 | 724-350-2760 | Ohio | WV | USEPA WV 0014 |
| Triad Energy | PO Box 430 | | Reno | OH | 45773 | 740-516-6021 740-374-2940 | Noble | OH | 4037 |
| Tri County Waste Water Management, Inc. | 1487 Toms Run Road | | Holbrook | PA | 15341 | 724-627-7178 724-499-5647 | Greene | PA | TC-1009 |
| King Excavating Co. Advance Waste Services | 101 River Park Drive | | New Castle | PA | 16101 | | Lawrence | PA | PAR000029132 |
| Waste Management - Meadowfill Landfill | Rt. 2, Box 68 Dawson Drive | | Bridgeport | WV | 16330 | 304-326-6027 | Harrison | WV | SWF-1032-98 Approval #100785WV |
| Waste Management - Northwestern Landfill | 512 E. Dry Road | | Parkersburg | WV | 26104 | 304-428-0602 | Wood | WV | SWF-1025 WV-0109400 |
| APEX Landfill | 11 County Road 78 | PO Box 57 | Amsterdam | OH | 43903 | 740-543-4389 | Jefferson | OH | 06-08438 |
| Advanced Disposal - Chestnut Valley Landfill | 1184 McClellandtown Road | | McClellandtown | PA | 15458 | 724-437-7336 | Fayette | PA | 100419 |
| Westmoreland Sanitary Landfill | 901 Tyrol Boulevard | | Belle Vernon | PA | 15012 | 724-929-7694 | Westmoreland | PA | 100277 |
| Austin Master Services | 801 North 1st Street | | Martins Ferry | OH | 43935 | 740-609-3800 | Belmont | OH | 2014-541 |
| Belmont Solids Control | 77505 Cadiz-New Athers Road | | Cadiz | OH | 43907 | 740-942-1739 | Harrison | OH | 2015-511 |
| Diversified Resources | 3111 Braun Rd. | | Belpre | OH | 45714 | 740-401-0413 | Washington | OH | |
| Buckeye Brine | 23986 Airport Road | | Coshocton | OH | 43812 | 740-610-1512 724-591-4393 | Coshocton | OH | 34-031-27177 34-031-27178 34-031-27241 |
| Central Environmental Services | 28333 West Belpre Pike | | Coolville | OH | 45723 | 304-488-0701 | Athens | OH | |
| Nuverra - Nichols | 10555 Veto Road | | Belpre | OH | 45714 | 330-232-5041 | Washington | OH | 34-119-2-8776 |
| Nuverra - Goff | 9350 East Pike Road | | Norwich | OH | 43767 | 330-232-5041 | Muskingum | OH | 34-167-2-3862 |
| Nuverra - Wolf | 5480 State Route 5 | | Newton Falls | OH | 44444 | 330-232-5041 | Trumbull | OH | 34-155-2-1893 |
| Nuverra - Pander | 5310 State Route 5 | | Newton Falls | OH | 44444 | 330-232-5041 | Trumbull | OH | 34-155-2-3795 |
| Nuverra - AnnaRock D-1 | 3549 Warner Road | | Fowler | OH | 44418 | 330-232-5041 | Trumbull | OH | 34-155-2-2403 |

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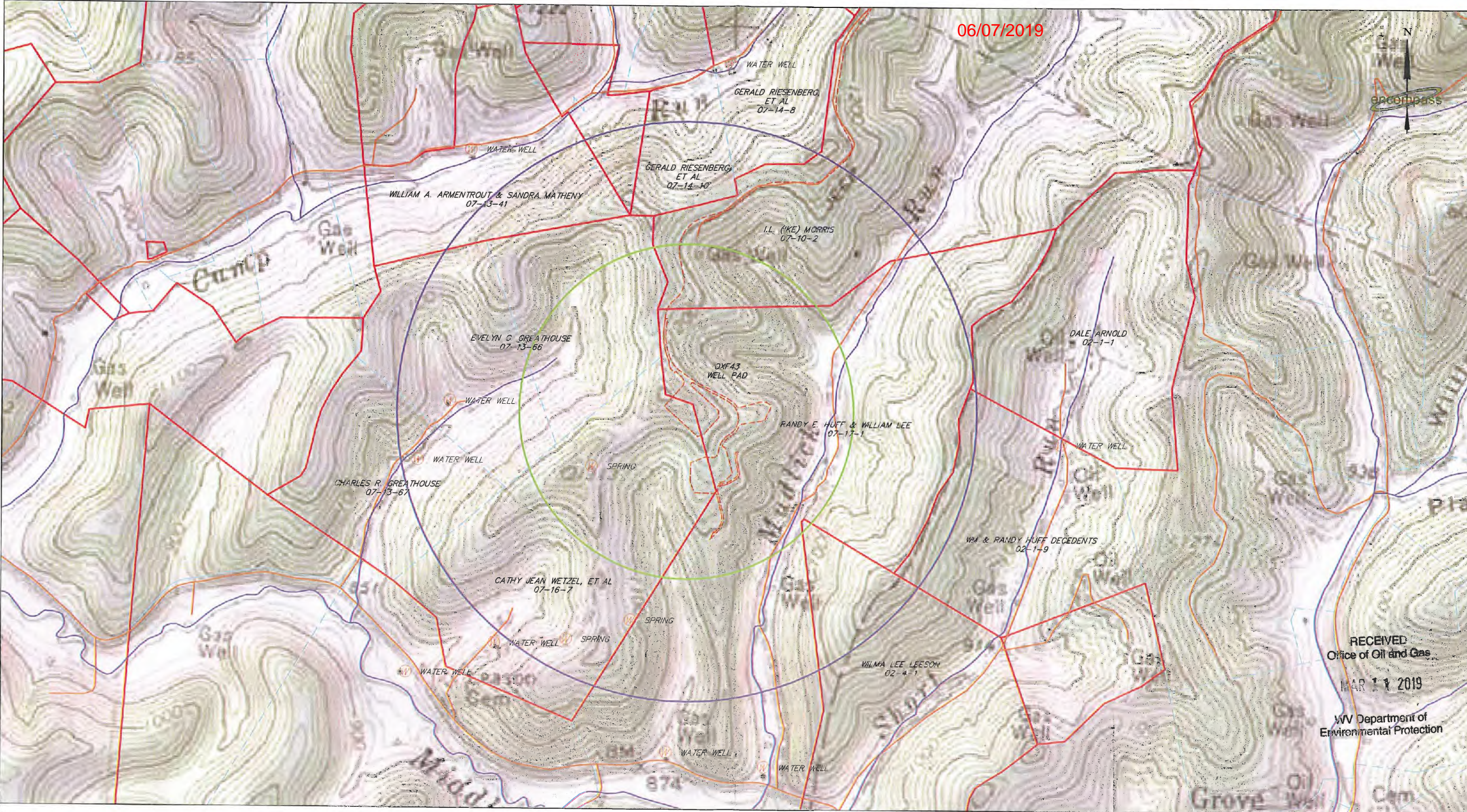
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| | | | | | | | | | |
|------------------------|----------------------|--|-------------|----|-------|--|------------|----|--|
| FQ Helen | 199 Bowersock Road | | Reno | OH | 45773 | 740-374-2940 412-443-4397 740-236-2135 | Washington | OH | 34-167-2-9577 |
| FQ Dexter | 38505 Marietta Rd. | | Dexter City | OH | 45727 | 740-374-2940 412-443-4397 740-236-2135 | Noble | OH | 34-121-24037 34-121-24086 |
| FQ Ritchie | 122 Lonesome Pine Rd | | Ellenboro | WV | 26346 | 740-374-2940 412-443-4397 740-236-2135 | Ritchie | WV | 47-085-09721 |
| FQ Mills | 53610 TS Rd 706 | | Portland | OH | 45770 | 740-374-2940 412-443-4397 740-236-2135 | Meigs | OH | 34-105-2-3619 34-105-2-3652 34-105-2-3637 34-105-2-3651 |
| Petta Enterprises - OH | 745 North 3rd Street | | Cambridge | OH | 43725 | 614-477-1368 | Guernsey | OH | Ohio Chiefs Order 25-019 |
| Petta Enterprises - WV | 38 Technology Dr. | | Tridelpia | WV | 26059 | 740-255-5727 | Ohio | WV | |
| Deep Rock Disposal | 2341 OH-821 | | Marietta | OH | 45750 | 304-629-0176 | Washington | OH | 34-167-2-9766 |

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06/07/2019



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- WATER FEATURE (AS NOTED)
- 1,500' BUFFER
- 2,600' BUFFER
- PARCEL
- ROAD
- EDGE OF WATER
- LEASE LINE
- ACCESS ROAD / PAD

| | | |
|------------------|---------------|----------------|
| SCALE: 1" = 800' | DRAWN BY: VER | |
| DATE: 1/29/2019 | REV DATE: | JOB NO.: 60635 |

EQT PRODUCTION COMPANY
OXF43 PAD
 RESIDENTIAL WATER SUPPLY MAP
 SOUTHWEST TAX DISTRICT, DOODRIDGE COUNTY, WV

| | |
|--|------------------------|
| | REV 1 SHEET: 1 OF 1 |
|--|------------------------|



Table 1 – Water Source Identification

EQT Well Pad Name: OXF 43

Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW Associates, Inc.

Site Number: 07-16-7 Distance from Gas Well (feet): 1583'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (yes/no): _____

Coordinates: 39.155761, 80.79576216 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

| |
|---|
| <input type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input checked="" type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 07-16-7 Distance from Gas Well (feet): 2237'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (yes/no): _____

Coordinates: 39.15199707, 80.79445984 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

| |
|---|
| <input type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input checked="" type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 07-16-7 Distance from Gas Well (feet): 2567'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (Yes/No): _____

Coordinates: 39.15149523, 80.7964674 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

| |
|---|
| <input type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input checked="" type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

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Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-16-7 Distance from Gas Well (feet): 2872'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

Address: 322 Zacks Run Road, RT 2 Box 317,
Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (yes/no): _____

Coordinates: 39.15136349, 80.79874149 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well, no update from October 2018 visit

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-13-67 Distance from Gas Well (feet): 2616'

Surface Owner / Occupant: Charles R. Greathouse

Address: 71 Alum Fork Road, Camden, WV 26338 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.15583001, 80.8012587 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-13-66 Distance from Gas Well (feet): 2321'

Surface Owner / Occupant: Evelyn G. Greathouse

Address: 147 Torrey Dr, Buckhannon, WV 26201 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15729159, 80.80024123 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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WV Department of
Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-13-41 Distance from Gas Well (feet): 3179'

Surface Owner / Occupant: William A. Armentrout & Sandra Matheny

Address: 815 Mace St, Elk View, WV 25071 Phone #: _____

Field Located Date: 04/21/17 Owner home during survey (yes/no): _____

Coordinates: 39.16348426, 80.79976642 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well, no update from October 2018 visit

- | |
|---|
| <input type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input checked="" type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 07-14-8 Distance from Gas Well (feet): 3288'

Surface Owner / Occupant: Gerald Riesenber, ET AL

Address: 290 Ogden Road, OH 45177 Phone #: _____

Field Located Date: 04/21/17 Owner home during survey (yes/no): _____

Coordinates: 39.16572147, 80.79158604 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well, update - October 2018 - landowner response indicated parcel uninhabited and no wells

- | |
|---|
| <input type="checkbox"/> Landowner Requested Sampling <input type="checkbox"/> Landowner Decline Sampling <input checked="" type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

Site Number: 02-1-9 Distance from Gas Well (feet): 3498'

Surface Owner / Occupant: Wm & Randy Huff Decedents

Address: 826 Orange Ave, Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15651686, 80.78094585 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

- | |
|---|
| <input type="checkbox"/> Landowner Requested Sampling <input checked="" type="checkbox"/> Landowner Decline Sampling <input type="checkbox"/> Unable to Contact <small>(Further contact attempts to be made by EQT's third party pre-drill sampling lab)</small> |
|---|

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Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-17-1 Distance from Gas Well (feet): 3371'

Surface Owner / Occupant: Randy E. Huff & William Lee

Address: 826 Orange Ave., Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.14843745, 80.79014573 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-17-1 Distance from Gas Well (feet): 3177'

Surface Owner / Occupant: Randy E. Huff & William Lee

Address: 826 Orange Ave., Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.14876464, 80.79325539 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-16-6 Distance from Gas Well (feet): 3538'

Surface Owner / Occupant: Betty M. Ryan

Address: 4153 Grove Summers Rd, New Milton, WV 26411 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15060189, 80.80151208 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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MAR 11 2019

WV Department of
Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date:

EQT Well Number:

Survey / Engineering Company: RETTEW

Site Number: 07-14-10 Distance from Gas Well (feet):

Surface Owner / Occupant: Gerald Riesenber, ET AL

Address: 290 Ogden Road, OH 45177 Phone #:

Field Located Date: Owner home during survey (yes/no):

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:

Comments: No features within 2600' buffer

Form with checkboxes: Landowner Requested Sampling, Landowner Decline Sampling, Unable to Contact

Site Number: 07-10-2 Distance from Gas Well (feet):

Surface Owner / Occupant: I L (Ike) Morris

Address: Glenville, WV 26351 Phone #:

Field Located Date: Owner home during survey (yes/no):

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Door Hanger Left:

Comments: No features within 2600' buffer

Form with checkboxes: Landowner Requested Sampling, Landowner Decline Sampling, Unable to Contact

Site Number: 02-1-1 Distance from Gas Well (feet):

Surface Owner / Occupant: Dale Arnold, ET AL

Address: 4825 Roop Rd, Mount Airy, MD 21771 Phone #:

Field Located Date: Owner home during survey (Yes/No):

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:

Comments: No features within 2600' buffer

Form with checkboxes: Landowner Requested Sampling, Landowner Decline Sampling, Unable to Contact

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MAR 11 2019

WV Department of Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 02-4-1 Distance from Gas Well (feet): _____

Surface Owner / Occupant: Wilma Lee Leeson

Address: 2687 Millview Dr, Columbus, OH 43207 Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: _____ Distance from Gas Well (feet): _____

Surface Owner / Occupant: _____

Address: _____ Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: _____ (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: _____

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: _____ Distance from Gas Well (feet): _____

Surface Owner / Occupant: _____

Address: _____ Phone #: _____

Field Located Date: _____ Owner home during survey (Yes/No): _____

Coordinates: _____ (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: _____

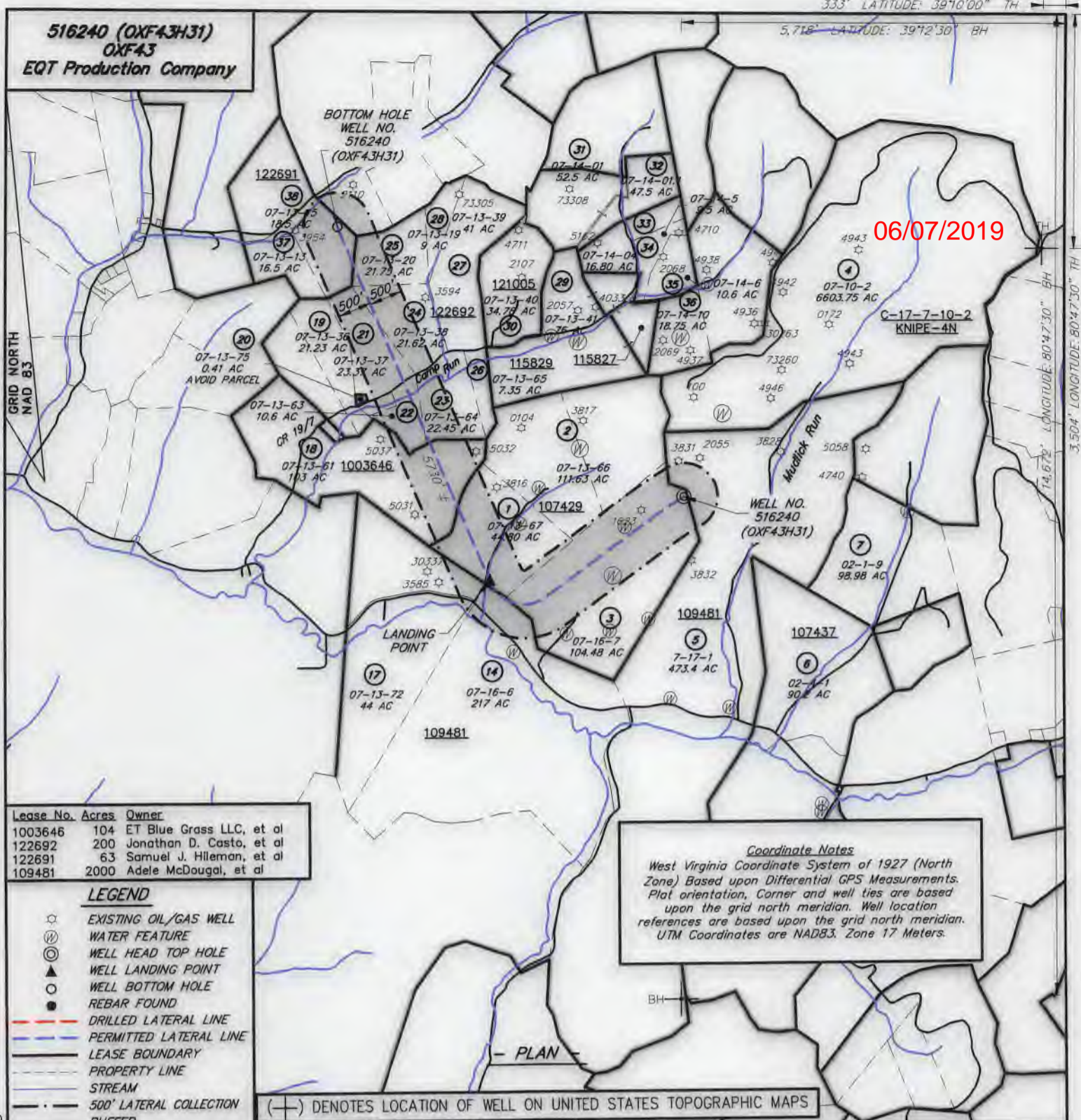
- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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MAR 11 2019

WV Department of
Environmental Protection

516240 (OXF43H31)
OXF43
EQT Production Company



06/07/2019

| Lease No. | Acres | Owner |
|-----------|-------|--------------------------|
| 1003646 | 104 | ET Blue Grass LLC, et al |
| 122692 | 200 | Jonathan D. Casto, et al |
| 122691 | 63 | Samuel J. Hileman, et al |
| 109481 | 2000 | Adele McDougal, et al |

LEGEND

- ☆ EXISTING OIL/GAS WELL
- ⊙ WATER FEATURE
- ⊙ WELL HEAD TOP HOLE
- ▲ WELL LANDING POINT
- WELL BOTTOM HOLE
- REBAR FOUND
- - - DRILLED LATERAL LINE
- - - PERMITTED LATERAL LINE
- - - LEASE BOUNDARY
- - - PROPERTY LINE
- - - STREAM
- - - 500' LATERAL COLLECTION BUFFER

Coordinate Notes
 West Virginia Coordinate System of 1927 (North Zone) Based upon Differential GPS Measurements. Plat orientation, Corner and well ties are based upon the grid north meridian. Well location references are based upon the grid north meridian. UTM Coordinates are NAD83, Zone 17 Meters.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



FILE NO.: EES-60635
 DRAWING NO.: OXF43_Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: ±3'
 PROVEN SOURCE OF ELEVATION: GPS

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

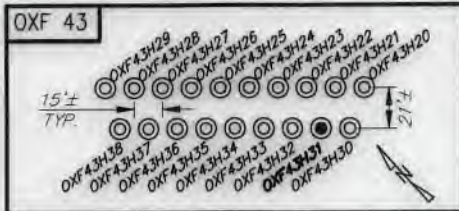
DATE: MARCH 7, 20 19
 OPERATORS: _____
 WELL NO.: 516240 (OXF43H31)
 API WELL NO.: _____
 47 017 06748
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION, ELEVATION: 1229' (As-Built Pad) WATERSHED: Middle Fork Hughes River QUADRANGLE: OXFORD
 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE
 SURFACE OWNER: Cathy Jean Wetzel, ET AL ACREAGE: 104.48± AC
 ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO.: 107429 ACREAGE: 255± AC
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6666'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Pl. P.O. Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

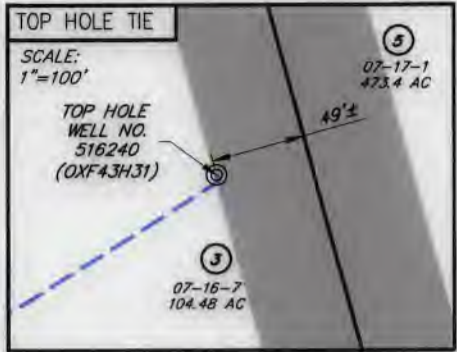
WWW.ENCOMPASSSERVICES.COM PLOT DATE: 3/7/2019 CAD FILE: OXF_43_WELL_PLAT-2019-03-01.DWG

516240 (OXF43H31)
OXF43
EQT Production Company

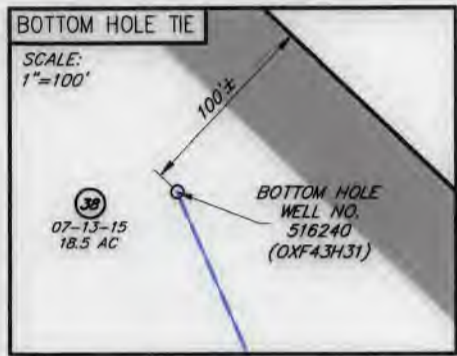


516240 (OXF43H31) Well Point Coordinates

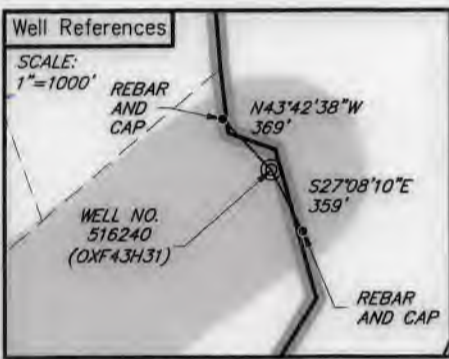
| Top Hole Coordinates | | |
|---------------------------|----------------|------------------|
| NAD 27 S.P.C. (FL) | N: 241,912.403 | E: 1,633,391.071 |
| NAD 27 GEO | LAT: 39.156949 | LONG: 80.792843 |
| NAD 83 UTM 17N (M) | N: 4,334,223.6 | E: 517,913.4 |
| NAD 83 S.P.C. (FL) | N: 241,947.7 | E: 1,601,950.2 |
| Landing Point Coordinates | | |
| NAD 27 S.P.C. (FL) | N: 240,661.615 | E: 1,630,505.462 |
| NAD 27 GEO | LAT: 39.153401 | LONG: 80.802954 |
| NAD 83 UTM 17N (M) | N: 4,333,923.9 | E: 517,006.7 |
| NAD 83 S.P.C. (FL) | N: 240,615.6 | E: 1,599,784.7 |
| Bottom Hole Coordinates | | |
| NAD 27 S.P.C. (FL) | N: 245,919.070 | E: 1,628,226.455 |
| NAD 27 GEO | LAT: 39.167743 | LONG: 80.811260 |
| NAD 83 UTM 17N (M) | N: 4,335,418.0 | E: 516,319.6 |
| NAD 83 S.P.C. (FL) | N: 245,954.3 | E: 1,596,785.6 |



| NO. | SURFACE OWNER |
|-----|--------------------------------|
| 1 | CHARLES R. GREATHOUSE |
| 3 | CATHY JEAN WETZEL, ET AL |
| 14 | BETTY M. RYAN |
| 18 | EDRA LOUISE GRIMM |
| 21 | RANDALL L. & KELLY GRIMM |
| 22 | RANDALL L. & KELLY GRIMM |
| 23 | DONALD L. SR. & ANNE K. WHITE |
| 24 | GREGORY L. & ROXANNA J. MORGAN |
| 25 | GREGORY L. & ROXANNA J. MORGAN |
| 38 | SAMUEL D. GASTON |



| NO. | ADJACENT OWNER |
|-----|---------------------------------------|
| 2 | EVELYN G. GREATHOUSE |
| 5 | RANDY E HUFF DECEDENT'S TRUST B, ETAL |
| 17 | DARLENE K. PRUNTY |



LEGEND

- ☆ EXISTING OIL/GAS WELL
- ⊙ WATER FEATURE
- ⊙ WELL HEAD TOP HOLE
- ⊙ WELL LANDING POINT
- ⊙ WELL BOTTOM HOLE
- REBAR FOUND
- DRILLED LATERAL LINE
- PERMITTED LATERAL LINE
- LEASE BOUNDARY
- PROPERTY LINE
- STREAM
- 500' LATERAL COLLECTION BUFFER



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

[Signature]



FILE NO.: EES-60635
 DRAWING NO.: OXF43_Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: ±3'
 PROVEN SOURCE OF ELEVATION: GPS

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

DATE MARCH 7, 20 19
 OPERATORS WELL NO. 516240 (OXF43H31)
 API WELL NO. 47 017 06748
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
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 DISTRICT: SOUTH WEST / COVE COUNTY: DODDRIDGE
 SURFACE OWNER: Cathy Jean Wetzel, ET AL ACREAGE: 104.48± AC
 ROYALTY OWNER: Franklin Maxwell Heirs L. P. LEASE NO.: 107429 ACREAGE: 255± AC
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6666'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Pl. P.O. Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

WWW.ENCOMPASSSERVICES.COM PLOT DATE: 3/7/2019 CAD FILE: OXF 43_WELL PLAT-2019-03-01.DWG

4701706748
06/07/2019

WW-6A1
(5/13)

Operator's Well No. 516240 (OXF43H31)

**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. | 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

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
 By: John Zavatchan
 Its: Landman - Permitting

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Page 1 of 2
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Environmental Protection

WW-6A1 attachment

Operator's Well No.

516240 (OXF43H31)

| Lease No. | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-----------------------|---|---|----------------|------------------|
| <u>107429</u> | <u>Franklin Maxwell Heirs L.P. (current royalty owner)</u> | | | |
| | W. Brent Maxwell, et al (original lessor) | Fisher Oil Co. | | LB23/337 |
| | Fisher Oil Co. | The Philadelphia Company of West Virginia | | LB32/120 |
| | The Philadelphia Company of West Virginia | Pittsburgh & West Virginia Gas Company | | DB87/90 |
| | Pittsburgh & West Virginia Gas Co. | Equitable Gas Company | | DB121/303 |
| | Equitable Gas Company | Equitrans, Inc. | | LB154/475 |
| | Equitrans, Inc. | Equitrans, L.P. | | DB329/645 |
| | Equitrans, L.P. | Equitable Production-Eastern States, Inc. | | LB 192/19 |
| | Equitable Production-Eastern States, Inc. | Equitable Production Company | | CB281/346 |
| | Equitable Production Company | EQT Production Company | | CB281/346 |
| <u>1003646</u> | <u>ET Blue Grass LLC, et al (current royalty owner)</u> | | | |
| | Cyril Scott, et ux, et al (original lessor) | Hugh Spencer | | LB91/637 |
| | Hugh Spencer | J & J Enterprises | | LB111/390 |
| | J & J Enterprises | Eastern American Energy Corp. | | LB211/137 |
| | Eastern American Energy Corp. | Energy Corporation of America | | LB240/498 |
| | Energy Corporation of America | Antero Resources Corp. | | LB272/339 |
| | Antero Resources Corp. | EQT Production Co. | | DB371/448 |
| <u>122692</u> | <u>Jonathan D Casto, et al (current royalty owner)</u> | | | |
| | R. J. Gaston, et al (original lessor) | Carter Oil Co. | | LB36/362 |
| | Carter Oil Co. | Hope Natural Gas Co. | | LB42/410 |
| | Hope Natural Gas Co. | Pittsburgh & WV Gas Co. | | LB53/82 |
| | Pittsburgh & WV Gas Co. | Equitable Gas Co. | | DB121/303 |
| | Equitable Gas Co. | Equitrans, Inc. | | LB154/475 |
| | Equitrans, Inc. | Equitable Production-Eastern States, Inc. | | LB192/19 |
| | Equitable Production-Eastern States, Inc. | Equitable Production Company | | CB281/346 |
| | Equitable Production Company | EQT Production Co. | | CB281/346 |
| <u>122691</u> | <u>Samuel J. Hileman, et al (current royalty owner)</u> | | | |
| | John M. Gaston, et ux (original lessor) | J. C. Trainer | | LB31/311 |
| | J. C. Trainer | Carter Oil Co. | | LB37/389 |
| | Carter Oil Co. | Hope Natural Gas Co. | | LB42/411 |
| | Hope Natural Gas Co. | Pittsburgh & WV Gas Co. | | LB53/82 |
| | Pittsburgh & WV Gas Co. | Equitable Gas Co. | | DB121/302 |
| | Equitable Gas Co. | Equitrans, Inc. | | DB154/475 |
| | Equitrans, Inc. | EQT Production Co. | | LB486/87 |
| <u>109481</u> | <u>Adele McDougal et al (current royalty owner)</u> | | | |
| | Jackson Leeson, et al (original lessor) | The Philadelphia Co. of West Virginia | | LB21/76 |
| | The Philadelphia Co. of West Virginia | Pittsburgh & West Virginia Gas Co. | | DB87/90 |
| | Pittsburgh & West Virginia Gas Co. | Equitable Gas Company | | DB121/303 |
| | Equitable Gas Company | Equitrans, Inc. | | LB154/475 |
| | Equitrans, Inc. | Equitrans, L.P. | | DB329/645 |
| | Equitrans, L.P. | Equitable Production-Eastern States, Inc. | | LB 192/19 |
| | Equitable Production-Eastern States, Inc. | Equitable Production Company | | CB281/346 |
| | Equitable Production Company | EQT Production Company | | CB281/346 |

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06/07/2019



January 30, 2019

Equitrans Midstream Corporation
C/O Equitrans, L.P.
2200 Energy Drive
Canonsburg, PA 15317

RE: Permission to Permit Wells Through Tax Map Parcels 07-13-13; 07-13-15; 07-13-16 known as lease number 122691 Oxford Quad, Doddridge County, West Virginia

EQT Production Company ("EQT") hereby requests Equitrans, L.P.'s ("Equitrans") permission to proceed with its plans to permit the horizontal wells known as the OXF43 in Oxford Quad, Doddridge County, West Virginia. EQT will not drill said horizontal wells through Equitrans' leasehold until EQT and Equitrans enter into an Agreement which will grant EQT the necessary rights to drill the wells through the subject Leasehold.

The "Leasehold" insofar as this letter is concerned is collectively defined as:

- (1) The property covered by that certain oil and gas lease, recorded in the Office of the Recorder of Deeds in Doddridge County, West Virginia, in Book 329 at Page 645.

Nothing in this letter agreement will diminish any current or future rights of EQT in the Leasehold or other properties. Nothing in this filing should be construed as a waiver of any of Equitrans' rights, remedies, arguments or defenses and, in fact, Equitrans hereby reserves all of its rights, remedies, arguments, and defenses regarding this matter.

If the above meets with your agreement, please execute in the space provided below and return the signed letter to EQT Production, Attention Eric Mejia, 2400 Ansys Drive, Suite 200, Canonsburg, PA 15317. Should you have any questions, please contact Eric Mejia at 724-746-9367 or by email at emejia@eqt.com.

Sincerely,

EQT Production Company

A handwritten signature in blue ink, appearing to read 'Eric Mejia', is written over a horizontal line.

Name: Eric Mejia, Regional Land Manager

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RCP

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Agreed to and accepted this 30th day of January, 2019.

Equitrans, L.P.

By: *R Cordell Pierce*

Name: R. Cordell Pierce

Title: Attorney in Fact

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Rep



06/07/2019
EQT Production Company
2400 Ansys Drive, Suite 200
Canonsburg, PA 15317
www.eqt.com

John Zavatchan
Landman - Permitting
O:724-746-9073
jzavatchan@eqt.com

March 6, 2019

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

Re: 516240 (OXF43H31) Gas Well
Southwest District, Doddridge County

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
Landman - Permitting

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

Date of Notice Certification: 03/08/2019

API No. 47- 017 - 06748
Operator's Well No. 516240 (DXF43H31)
Well Pad Name: DXF43

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

| | | | | |
|-------------|---------------------------------|---------------------------|-----------|-----------------------------------|
| State: | <u>West Virginia</u> | UTM NAD 83 | Easting: | <u>517,913.4</u> |
| County: | <u>Doddridge</u> | | Northing: | <u>4,334,223.6</u> |
| District: | <u>South West/Cove</u> | Public Road Access: | | <u>Rt. 20</u> |
| Quadrangle: | <u>Oxford</u> | Generally used farm name: | | <u>Cathy Jean Watzel, et. al.</u> |
| Watershed: | <u>Middle Fork Hughes River</u> | | | |

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (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.

| | |
|---|---|
| <p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p> | <p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> |
|---|---|

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 attached Notice 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.

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06/07/2019

West Virginia Department of Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I John Zavatchan, 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: | <u>EQT Production Company</u> | Address: | <u>2400 Ansys Drive, Suite 200</u> |
| By: | <u>John Zavatchan</u> | | <u>Canonsburg, PA 15317</u> |
| Its: | <u>Landman - Permitting</u> | Facsimile: | <u>724-745-2418</u> |
| Telephone: | <u>724-746-9073</u> | Email: | <u>jzavatchan@eqt.com</u> |



Subscribed and sworn before me this 8 day of March, 2019.

Amy L. Todd Notary Public

My Commission Expires 8/21/2022

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.

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 03/08/2019 **Date Permit Application Filed:** 03/08/2019

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: See Attached
Address: _____

COAL OWNER OR LESSEE
Name: See Attached
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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*Please attach additional forms if necessary. **MAR 11 2019**

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 or 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 extending 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

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 thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to 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

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WV Department of
Environmental Protection

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

06/07/2019

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.

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Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

Notice is hereby given by:

Well Operator: EQT Production Company
Telephone: 724-746-9073
Email: jzavatchan@eqt.com



Address: 2400 Ansys Drive, Suite 200
Canonsburg, PA 15317
Facsimile: 724-745-2418

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.



Subscribed and sworn before me this 8 day of March, 2019.

Amy L. Todd Notary Public

My Commission Expires 8/21/2022

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WV Department of
Environmental Protection

Surface Owners:

06/07/2019

CATHY JEAN WETZEL, ET AL
322 ZACKS RUN ROAD
MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S TRUST B
826 ORANGE AVENUE
CORONADO , CA 92118

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

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

CATHY JEAN WETZEL, ET AL
322 ZACKS RUN ROAD
MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S TRUST B
826 ORANGE AVENUE
CORONADO , CA 92118

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

I.L. MORRIS
PO BOX 397
GLENVILLE, WV

MATHEW H. COPELAND
1500 HAYSTACK LANE
WEST UNION,WV 26456

SANDRA MATHENY ARMENTROUT AND WILLIAM A. ARMENTROUT
851 MACE ST.
ELKVIEW, WV 25071

Janice S. McCormack
1903 CAMP RUN ROAD
WEST UNION, WV 26456

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Environmental Protection

06/07/2019

Coal Owner

Adele McDougal
213 W. High Street
Harrisville WV 26362

William Lee Huff c/o Joye E Huff
826 Orange Ave.
Coronado CA 92118

Master Mineral Holdings II LP
P.O.Box 10886
Midland TX 79702

Lois L McKain
4141 S. Braeswood Blvd. Apt 224
Houston TX 77009

Katherine Foster Leggett
1625 Stonehenge Rd
Charleston WV 25314

Franklin Maxwell Heirs Ltd Partnership #1
P.O.Box 2395
Buchannon WV 26201

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Table 1 – Water Source Identification

EQT Well Pad Name: OXF 43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW Associates, Inc.

Site Number: 07-16-7 Distance from Gas Well (feet): 1583'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (yes/no): _____

Coordinates: 39.155761, 80.79576216 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | Landowner Requested Sampling |
| <input type="checkbox"/> | Landowner Decline Sampling |
| <input checked="" type="checkbox"/> | Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |

Site Number: 07-16-7 Distance from Gas Well (feet): 2237'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (yes/no): _____

Coordinates: 39.15199707, 80.79445984 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | Landowner Requested Sampling |
| <input type="checkbox"/> | Landowner Decline Sampling |
| <input checked="" type="checkbox"/> | Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |

Site Number: 07-16-7 Distance from Gas Well (feet): 2567'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL

322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (Yes/No): _____

Coordinates: 39.15149523, 80.7964674 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Spring, no update from October 2018 visit

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | Landowner Requested Sampling |
| <input type="checkbox"/> | Landowner Decline Sampling |
| <input checked="" type="checkbox"/> | Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |

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Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-16-7 Distance from Gas Well (feet): 2872'

Surface Owner / Occupant: Cathy Jean Wetzel, ET AL
322 Zacks Run Road, RT 2 Box 317,
Address: Mount Claire, WV 26408 Phone #: _____

Field Located Date: 4/20/17 Owner home during survey (yes/no): _____

Coordinates: 39.15136349, 80.79874149 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well, no update from October 2018 visit

| |
|--|
| <input type="checkbox"/> Landowner Requested Sampling |
| <input type="checkbox"/> Landowner Decline Sampling |
| <input checked="" type="checkbox"/> Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |

Site Number: 07-13-67 Distance from Gas Well (feet): 2616'

Surface Owner / Occupant: Charles R. Greathouse
Address: 71 Alum Fork Road, Camden, WV 26338 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.15583001, 80.8012587 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well

| |
|---|
| <input type="checkbox"/> Landowner Requested Sampling |
| <input type="checkbox"/> Landowner Decline Sampling |
| <input type="checkbox"/> Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |

Site Number: 07-13-66 Distance from Gas Well (feet): 2321'

Surface Owner / Occupant: Evelyn G. Greathouse
Address: 147 Torrey Dr, Buckhannon, WV 26201 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15729159, 80.80024123 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

| |
|---|
| <input type="checkbox"/> Landowner Requested Sampling |
| <input type="checkbox"/> Landowner Decline Sampling |
| <input type="checkbox"/> Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) |

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Environmental Protection



Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date:

EQT Well Number:

Survey / Engineering Company: RETTEW

Site Number: 07-13-41 Distance from Gas Well (feet): 3179'

Surface Owner / Occupant: William A. Armentrout & Sandra Matheny

Address: 815 Mace St, Elk View, WV 25071 Phone #:

Field Located Date: 04/21/17 Owner home during survey (yes/no):

Coordinates: 39.16348426, 80.79976642 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:

Comments: Well, no update from October 2018 visit

Landowner Requested Sampling, Landowner Decline Sampling, [X] Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-14-8 Distance from Gas Well (feet): 3288'

Surface Owner / Occupant: Gerald Riesenber, ET AL

Address: 290 Ogden Road, OH 45177 Phone #:

Field Located Date: 04/21/17 Owner home during survey (yes/no):

Coordinates: 39.16572147, 80.79158604 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Door Hanger Left:

Comments: Well, update - October 2018 - landowner response indicated parcel uninhabited and no wells

Landowner Requested Sampling, Landowner Decline Sampling, [X] Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 02-1-9 Distance from Gas Well (feet): 3498'

Surface Owner / Occupant: Wm & Randy Huff Decedents

Address: 826 Orange Ave, Coronado, CA 92118 Phone #:

Field Located Date: 10/23/18 Owner home during survey (Yes/No):

Coordinates: 39.15651686, 80.78094585 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:

Comments: Well

Landowner Requested Sampling, [X] Landowner Decline Sampling, [] Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-17-1 Distance from Gas Well (feet): 3371'

Surface Owner / Occupant: Randy E. Huff & William Lee

Address: 826 Orange Ave., Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.14843745, 80.79014573 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-17-1 Distance from Gas Well (feet): 3177'

Surface Owner / Occupant: Randy E. Huff & William Lee

Address: 826 Orange Ave., Coronado, CA 92118 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (yes/no): _____

Coordinates: 39.14876464, 80.79325539 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-16-6 Distance from Gas Well (feet): 3538'

Surface Owner / Occupant: Betty M. Ryan

Address: 4153 Grove Summers Rd, New Milton, WV 26411 Phone #: _____

Field Located Date: 10/23/18 Owner home during survey (Yes/No): _____

Coordinates: 39.15060189, 80.80151208 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: Well

Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
 (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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WV Department of
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Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date: _____

EQT Well Number: _____

Survey / Engineering Company: RETTEW

Site Number: 07-14-10 Distance from Gas Well (feet): _____

Surface Owner / Occupant: Gerald Riesenberg, ET AL

Address: 290 Ogden Road, OH 45177 Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 07-10-2 Distance from Gas Well (feet): _____

Surface Owner / Occupant: I L (Ike) Morris

Address: Glenville, WV 26351 Phone #: _____

Field Located Date: _____ Owner home during survey (yes/no): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: 02-1-1 Distance from Gas Well (feet): _____

Surface Owner / Occupant: Dale Arnold, ET AL

Address: 4825 Roop Rd, Mount Airy, MD 21771 Phone #: _____

Field Located Date: _____ Owner home during survey (Yes/No): _____

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: _____ 2nd: _____ Date Door Hanger Left: _____

Comments: No features within 2600' buffer

- Landowner Requested Sampling
- Landowner Decline Sampling
- Unable to Contact
(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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Table 1 – Water Source Identification

EQT Well Pad Name: OXF43 Submittal Date:

EQT Well Number:

Survey / Engineering Company: RETTEW

Site Number: 02-4-1 Distance from Gas Well (feet):

Surface Owner / Occupant: Wilma Lee Leeson

Address: 2687 Millview Dr, Columbus, OH 43207 Phone #:

Field Located Date: Owner home during survey (yes/no):

Coordinates: Unconfirmed (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:

Comments: No features within 2600' buffer

- Landowner Requested Sampling
Landowner Decline Sampling
Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: Distance from Gas Well (feet):

Surface Owner / Occupant:

Address: Phone #:

Field Located Date: Owner home during survey (yes/no):

Coordinates: (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Door Hanger Left:

Comments:

- Landowner Requested Sampling
Landowner Decline Sampling
Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

Site Number: Distance from Gas Well (feet):

Surface Owner / Occupant:

Address: Phone #:

Field Located Date: Owner home during survey (Yes/No):

Coordinates: (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 2nd: Date Door Hanger Left:

Comments:

- Landowner Requested Sampling
Landowner Decline Sampling
Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

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MAR 11 2019

WV Department of Environmental Protection

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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 02/12/2019 **Date Permit Application Filed:** 3/8/19

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

| | |
|--------------------------------|----------------|
| Name: <u>See Attached List</u> | Name: _____ |
| Address: _____ | Address: _____ |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| | | |
|--|---|------------------------------|
| State: <u>West Virginia</u> | UTM NAD 83 | Easting: <u>517,913.4</u> |
| County: <u>Doddridge</u> | | Northing: <u>4,334,223.6</u> |
| District: <u>Southwest / Cove</u> | Public Road Access: <u>Rt. 20</u> | |
| Quadrangle: <u>Oxford</u> | Generally used farm name: <u>Cathy Jean Wetzel, et. al.</u> | |
| Watershed: <u>Middle Fork Hughes River</u> | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

| | |
|--|--|
| Well Operator: <u>EQT Production Company</u> | Authorized Representative: <u>John Zavatchan</u> |
| Address: <u>2400 Ansys Drive, Suite 200</u> | Address: <u>2400 Ansys Drive, Suite 200</u> |
| <u>Canonsburg, PA 15317</u> | <u>Canonsburg, PA 15317</u> |
| Telephone: <u>724-746-9073</u> | Telephone: <u>724-746-9073</u> |
| Email: <u>jzavatchan@eqt.com</u> | Email: <u>jzavatchan@eqt.com</u> |
| Facsimile: <u>724-745-2418</u> | Facsimile: <u>724-745-2418</u> |

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.

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Office of Oil and Gas
MAR 11 2019

Surface Owners:

06/07/2019

CATHY JEAN WETZEL, ET AL
322 ZACKS RUN ROAD
MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S TRUST B
826 ORANGE AVENUE
CORONADO , CA 92118

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

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

CATHY JEAN WETZEL, ET AL
322 ZACKS RUN ROAD
MOUNT CLARE ,WV 26408

RANDY E. HUFF DECEDENT'S TRUST B
826 ORANGE AVENUE
CORONADO , CA 92118

WILLIAM LEE HUFF
826 ORANGE AVENUE
CORONADO , CA 92118

I.L. MORRIS
PO BOX 397
GLENVILLE, WV

MATHEW H. COPELAND
1500 HAYSTACK LANE
WEST UNION,WV 26456

SANDRA MATHENY ARMENTROUT AND WILLIAM A. ARMENTROUT
851 MACE ST.
ELKVIEW, WV 25071

Janice S. McCormack
1903 CAMP RUN ROAD
WEST UNION, WV 26456

RECEIVED
Office of Oil and Gas

MAR 11 2019

WV Department of
Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 03/08/2019 **Date Permit Application Filed:** 03/08/2019

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

| | |
|-------------------------|-------------------------|
| Name: See Attached List | Name: See Attached List |
| Address: _____ | Address: _____ |
| _____ | _____ |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| | | |
|-------------------------------------|--|-----------------------|
| State: West Virginia | UTM NAD 83 | Easting: 517,913.4 |
| County: Doddridge | | Northing: 4,334,223.6 |
| District: Southwest / Cove | Public Road Access: Rt. 20 | |
| Quadrangle: Oxford | Generally used farm name: Cathy Jean Wetzal, et. al. | |
| Watershed: Middle Fork Hughes River | | |

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: EQT Production Company | Address: 2400 Ansys Drive, Suite 200 |
| Telephone: 724-746-9073 | Canonsburg, PA 15317 |
| Email: jzavatchan@eqt.com | Facsimile: 724-745-2418 |

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 its 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.

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Office of Oil and Gas
MAR 11 2019
WV Department of
Environmental Protection



06/07/2019

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

November 13, 2018

Jill M. Newman
Deputy Commissioner

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 OXF43 Well Site, Doddridge County

| | | |
|----------|----------|----------|
| OXF43H20 | OXF43H21 | OXF43H22 |
| OXF43H24 | OXF43H28 | OXF43H29 |
| OXF43H32 | OXF43H34 | OXF43H35 |
| OXF43H36 | OXF43H37 | |

Dear Mr. Martin,

This well site will be accessed from Permit # 04-2015-0394 has been issued to EQT Production Company for access to the State Road for a well pad located off of County Rt. 23/3 SLS in Doddridge County.

The 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 dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

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Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-4
File

Anticipated Frac Additives
Chemical Names and CAS numbers

06/07/2019

| <u>Material</u> | <u>Ingredient</u> | <u>CAS Number</u> |
|-----------------------|--|-------------------|
| Water | | |
| Sand | Hydrotreated light petroleum distillate | 14808-60-7 |
| Friction Reducer | Tributyl tetradecyl phosphonium chloride | 64742-47-8 |
| Biocide | Ammonium chloride | 81741-28-8 |
| Scale Inhibitor | Hydrochloric Acid | 12125-02-9 |
| 15% Hydrochloric Acid | Propargyl Alcohol | 7647-01-0 |
| Corrosion Inhibitor | Methanol | 107-19-7 |
| Corrosion Inhibitor | Guar Gum | 67-56-1 |
| Gelling Agent | Sodium Persulfate | 9000-30-0 |
| Oxidizing Breaker | Potassium Carbonate | 7775-27-1 |
| Buffering Agent | | 584-08-7 |

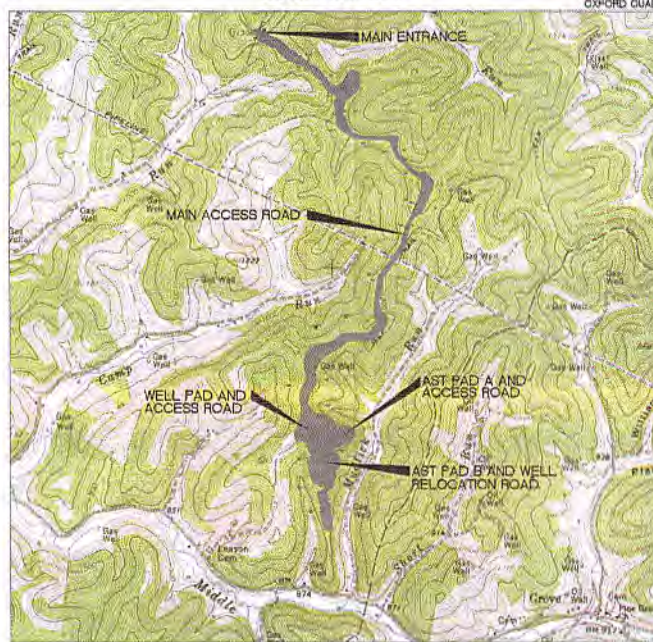
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WV Department of
Environmental Protection

OXF43 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

PERMITTED WELLS: API# 47-017-06739, 47-017-06740, 47-017-06741, 47-017-06742,
47-017-06743, 47-017-06744, 47-017-06745, 47-017-06746, 47-017-06747, 47-017-06748
AND 47-017-06749

PROPOSED WELL NUMBERS: OXF43H28, OXF43H29, OXF43H33, OXF43H34, OXF43H35,
OXF43H36, OXF43H37, AND OXF43H38

SITUATE ON WATERS OF MIDDLE FORK OF THE SOUTH FORK OF HUGHES RIVER IN
SOUTHWEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA
LOCATION MAP



SCALE 1"=1000'

PROJECT INFORMATION

PROJECT NAME: OXF43 AS-BUILT

SURFACE OWNERS:

ROBERT C. HUFF DECEDENT'S TRUST II, ET AL
L274
APR-11-1
DB 247 PG 226

WITZEL, CATHY JEAN, ET AL
399-01-02-3
DB 277 PG 185

GREATHOUSE, CHARLES H & CYELYN G.
APR-01-14-8
DB 222 PG 343

SCORRILL, L.
APR-01-12-2
DB 238 PG 207

CORLELAND, MARCHELL
APR-01-10-1
DB 257 PG 6

OIL AND GAS ROYALTY OWNER:

FRANKLIN WATKINS, SR. AND LP
DISTRICT OF SOUTHWEST 1 COVE
DODDRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 285 ACRES

LOCATION COORDINATES

TOP AT SITE ENTRANCE
LATITUDE: 39 39'00" LONGITUDE: 80 59'54" (NAD 83)
NORTHINGS: 4,336,793.7 EASTINGS: 817,559.7 (NAD 83 METERS)

TOP OF CENTER OF WELL PAD
LATITUDE: 39 39'15" LONGITUDE: 80 59'58" (NAD 83)
NORTHINGS: 4,336,793.2 EASTINGS: 817,561.4 (NAD 83 METERS)

SITE DISTURBANCE COMPUTATIONS

MAIN ACCESS ROAD = 39.85 ACRES
WELL PAD AND ACCESS ROAD = 1.10 ACRES
AST PAD A AND ACCESS ROAD = 8.31 ACRES
AST PAD B AND WELL RELOCATION ROAD = 1.80 ACRES

GENERAL DESCRIPTION

THE OXF43 PAD AND AST PADS ARE BEING CONSTRUCTED TO BE IN THE
DEVELOPMENT OF INDIVIDUAL BARRISLLO OIL & GAS WELLS

**WVDEP OOG
ACCEPTED AS-BUILT**

WBJ 1/29/2019

STATEMENTS

I HEREBY CERTIFY THAT THE DRAWING AND PLAN
ON THE TOPOGRAPHIC MAPPING AS DEMONSTRATED
FROM THE FIELD SURVEY IS A TRUE AND CORRECT
REPRESENTATION OF THE FIELD SURVEY ON 11/16/18. I, THE SURVEYOR,
AM A LICENSED SURVEYOR IN THE STATE OF WEST VIRGINIA
AND AM NOT PROVIDING THIS SERVICE AS AN EMPLOYEE OF ANY OTHER ENTITY.

MISS Utility of West Virginia
1-800-245-4843
West Virginia Code Law
(Section) XIV, Chapter 24-C

Requires that you call his business days before you dig in the state
of West Virginia.
IT'S THE LAW!

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Department of Environmental Protection
MAY 29 11 2019

LIST OF DRAWINGS

1. COVER SHEET
2. INDEX SHEET
3. OXF43 ACCESS ROAD
4. OXF43 ACCESS ROAD
5. OXF43 ACCESS ROAD
6. OXF43 ACCESS ROAD
7. OXF43 ACCESS ROAD
8. OXF43 ACCESS ROAD
9. OXF43 ACCESS ROAD, AST PAD AND ACCESS ROAD AND ROAD AND PAD B AND WELL RELOCATION ROAD
10. OXF43 WELL PAD AND ACCESS ROAD, PAD A AND ACCESS ROAD AND PAD B AND WELL RELOCATION ROAD
11. OXF43 PAD A AND WELL RELOCATION ROAD
12. MAIN ROAD PROFILE
13. MAIN ROAD PROFILE
14. MAIN ROAD PROFILE
15. MAIN ROAD PROFILE AND PAD ACCESS ROAD PROFILE
16. PAD ACCESS ROAD PROFILE AND WELL RELOCATION ROAD PROFILE

LOD by property name:

| PROPERTY NAME | PURPOSE | CONTRACT NO. | WELL PAD NO. | NO. OF |
|---------------------------------------|---------|--------------|--------------|--------|
| Franklin Watkins, Sr. and LP | P-110 | 2150 | 215 | 1 |
| WATKINS, FRANKLIN WATKINS, SR. AND LP | P-110 | 2150 | 215 | 1 |
| WATKINS, FRANKLIN WATKINS, SR. AND LP | P-110 | 2150 | 215 | 1 |
| WATKINS, FRANKLIN WATKINS, SR. AND LP | P-110 | 2150 | 215 | 1 |
| WATKINS, FRANKLIN WATKINS, SR. AND LP | P-110 | 2150 | 215 | 1 |

LOD by problems:

| PROBLEM | NO. OF | NO. OF |
|-------------------------------------|--------|--------|
| Main Access Road (See Section 24-C) | 1 | 1 |
| WELL PAD AND ACCESS ROAD | 1 | 1 |
| AST PAD A AND ACCESS ROAD | 1 | 1 |
| AST PAD B AND WELL RELOCATION ROAD | 1 | 1 |
| ROAD | 1 | 1 |
| ROAD | 1 | 1 |
| ROAD | 1 | 1 |
| ROAD | 1 | 1 |
| ROAD | 1 | 1 |

LEGEND

- PROPERTY LINE
- LINE OF DISTURBANCE
- EX ROAD EDGE OF GRAVEL/URTI
- EX ROAD IMPROVEMENT
- EX CURB/GARAGE
- EX CURB/STAIR
- EX DRIVEWAY
- EX DRIVEWAY
- EDGE OF GRAVEL PAD
- EDGE OF BERM
- OBSCURE CONSTRUCTION FENCE
- 12" CONCRETE FILTER ROCK
- 14" CONCRETE FILTER ROCK
- 24" CONCRETE FILTER ROCK
- TOP BERM
- GRAVEL
- TOP BERM
- INDEX CONSTRUCTION ENTRANCE
- ORIGINAL SURFACE E CONTOUR
- AS BUILT E CONTOUR
- AS-BUILT WELL LOCATION
- PROPOSED WELL LOCATIONS
- ADJACENT WELL LOCATIONS
- BATHYLINE
- EX FENCELINE
- EX GATE
- EX FENCELINE
- EX PIPELINES MARKER
- EX OVERHEAD UTILITY
- EX POWER POLE
- EX SIGN MARK
- EX DRAINAGE

EQT
EQT PRODUCTION COMPANY

SLS
Surveying & Land Services, Inc.

THE SURVEYOR HAS
VERIFIED THE
ACCURACY OF THE
FIELD SURVEY

**OXF43
AS-BUILT SITE PLAN**

DATE: 10/26/2019
BY: [Signature]
SCALE: 1"=1000'
DESIGNED BY: J.M.
FILE NO: 18-011
SHEET 1 OF 11

July 19
6/4/18

GRID NORTH AND SURVEYED ELEVATIONS DURING CONSTRUCTION WERE ESTABLISHED BY GPS SURVEY GRADE.

WELL ELEVATION DETAIL

| | |
|--------------------|--------------------|
| OXF43H38 | OXF43H29 |
| OXF43H37 | OXF43H28 |
| OXF43H36 | H27 (47-017-06747) |
| OXF43H35 | H26 (47-017-06745) |
| OXF43H34 | H25 (47-017-06744) |
| OXF43H33 | H24 (47-017-06742) |
| H32 (47-017-06743) | H23 (47-017-06743) |
| H31 (47-017-06748) | H22 (47-017-06741) |
| H30 (47-017-06746) | H21 (47-017-06740) |
| | H20 (47-017-06739) |

SCALE - 1"=20'



OXF43 PAD AS-BUILT
 SITUATE ON WATERS OF MIDDLE FORK OF THE SOUTH FORK OF HUGHES RIVER IN SOUTHWEST DISTRICT, DOODRIDGE COUNTY, WEST VIRGINIA



**WVDEP OOG
 ACCEPTED AS-BUILT**
 1/20/2010

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| | | | | |
|--|---------------|------------------|---------------|---------------------|
| DATE: 04-20-2010 | SCALE: 1"=40' | DESIGNED BY: SWS | PAGE NO: 0432 | SHEET NO: 017 OF 10 |
| | | | | |
| | | | | |
| OXF43 PAD AS-BUILT <small>FOR THE PRODUCTION OPERATOR</small> | | | | |