



west virginia department of environmental protection

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

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

Monday, September 11, 2023
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for RADCLIFF 16H
47-049-02514-00-00

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: RADCLIFF 16H
Farm Name: Jackie D & Sheila L Radcliff
U.S. WELL NUMBER: 47-049-02514-00-00
Horizontal 6A New Drill
Date Issued: 9/11/2023

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PERMIT CONDITIONS 4704902514

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

09/15/2023

WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. 16H
Well Pad Name: Radcliff

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

1) Well Operator: EQT Production Company 306686 Marion Mannington Glover Gap
Operator ID County District Quadrangle

2) Operator's Well Number: 16H Well Pad Name: Radcliff

3) Farm Name/Surface Owner: Jackie D. & Sheila L. Radcliff Public Road Access: CR 4/4

4) Elevation, current ground: 1,493' (built) Elevation, proposed post-construction: 1,493'

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):
Marcellus, 7,916', 78', 2,593 psi

8) Proposed Total Vertical Depth: 7,916'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,578'

11) Proposed Horizontal Leg Length: 8,769'

12) Approximate Fresh Water Strata Depths: 460', 490', 621', 751'

13) Method to Determine Fresh Water Depths: Offset Wells - 049-02184, 049-00699, 049-00168, 049-30339, 049-30238

14) Approximate Saltwater Depths: 1,856', 2,127', 2,247'

15) Approximate Coal Seam Depths: 1,200'-1,206', 1,297'-1,304'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____

NOV 09 2023

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

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WW-6B
(04/15)

API NO. 47- _____
 OPERATOR WELL NO. 18H _____
 Well Pad Name: Radcliff _____

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A252 OR 3 Bars	85.6	40	40	50 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1354	1354	1230 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2721	2721	1050 ft ³ / CTS
Production	6	New	P-110	24	17578	17578	500' above intermediate casing
Tubing							
Liners							

Randall M. Kurlberg

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

PACKERS

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Kind:			
Sizes:			
Depths Set:			

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.33 (built)

22) Area to be disturbed for well pad only, less access road (acres): 5.19 (built)

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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

Conductor: Class A no additives
Surface: Calcium Chloride. Used to speed the setting of cement slurries
Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.
Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Borax, Retarder, Anti-Settling/Suspension Agent

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

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*Note: Attach additional sheets as needed.

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WEST VIRGINIA GEOLOGICAL PROGNOSIS

Radcliff
GLO176
S-000118

Drilling Objectives: Marcellus
County: Marion
Quad: Glover Gap
Elevation: 1506 KB
Recommended Azimuth: 149.5 Degrees

1493 GL

Recommended LP to TD: **TBD**

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	906		FW @ 460,490.621,751.	1118	1118
Sewickley Coal	1200	1206	Coal			
Pittsburgh Coal	1297	1304	Coal			
Big Lime	2470	2543	Limestone	Not mined. TransEnergy reported depth at 1200' on 1H and 2H GL Elevation		
Big Injun	2543	2671	Sandstone	SW @ .1856,2127,2247		
Int. csg pt	2721					
Berea	2786	3361	Sandstone	Not shown within Storage		
Gordon	3361	3523	Silty Sand			
Bayard	3523	5964	Silty Sand			
Alexander	5964	6409	Silty Sand	Base of Offset Well Perforations at 5870' TVD		
Elks	6409	7350	Gray Shales and Silts			
Sonyea	7350	7546	Gray shale			
Middlesex	7546	7600	Shale			
Genesee	7600	7699	Gray shale interbedded			
Genesee	7699	7739	Black Shale			
Tully	7739	7769	Limestone			
Hamilton	7769	7872	Gray shale with some			
Marcellus	7872	7949	Black Shale			
Purcell	7916	7918	Limestone			
-Lateral Zone	7916			MRC2 Target		
Cherry Valley	7929	7931	Limestone			
Onondaga	7949		Limestone			

Target Thickness	78 feet
Max Anticipated Rock Pressure	2593 PSI

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

RECOMMENDED CASING POINTS

Fresh Water/Coal: CSG OD 13 3/8
Intermediate 1: CSG OD 9 5/8
Production: CSG OD 5 1/2

Planned Depth: 1354
CSG DEPTH: 2721
CSG DEPTH: @ TD

50' Below Pittsburgh
50' Below Big Injun

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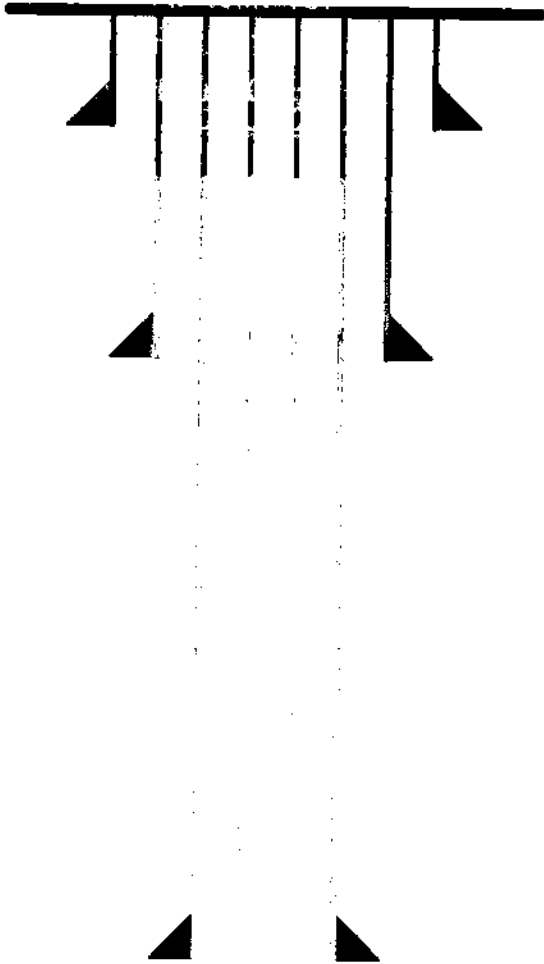
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EQT Production

Wellbore Diagram

Well: Radcliff 16H
Pad: Radcliff
Elevation: 1493' GL 1506' KB

County: Marion
State: West Virginia
4704902514



Conductor @ 40'

26", 85.6, A252 GR3 Bare, cement to surface w/ Class A/L

Surface @ 1,354'

13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

Intermediate @ 2,721'

9-5/8", 36#, J-55, cement to surface w/ Class A/L

Production @ 17,578' MD 17,916' TVD

6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

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Formation: Marcellus

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NOT TO SCALE



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

A handwritten signature in blue ink that reads "James Peterson" followed by a stylized set of initials "JCS".

James Peterson
Environmental Resources Specialist / Permitting

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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
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**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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July 27, 2023

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

Re: Casing on Radcliff 16H

Dear Mr. Brewer,

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

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

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

Sincerely,

John Zavatchan
Project Specialist - Permitting

Enc.

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July 27, 2023

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

Re: Class L Cement Variance Request
Radcliff 16H Well
Mannington District, Marion County

Dear Mr. Brewer,

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

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

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

Sincerely,

John Zavatchan
Project Specialist - Permitting

Enc.

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

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

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

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4)
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-14

REPORT OF THE OFFICE

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

FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

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2023

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

CONCLUSIONS OF LAW

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

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


ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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


James Martin, Chief
Office of Oil and Gas

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EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Radcliff
County: Marion

July 27, 2023

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09/15/2023

Purpose

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

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

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

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

1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

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 a noted abnormality.

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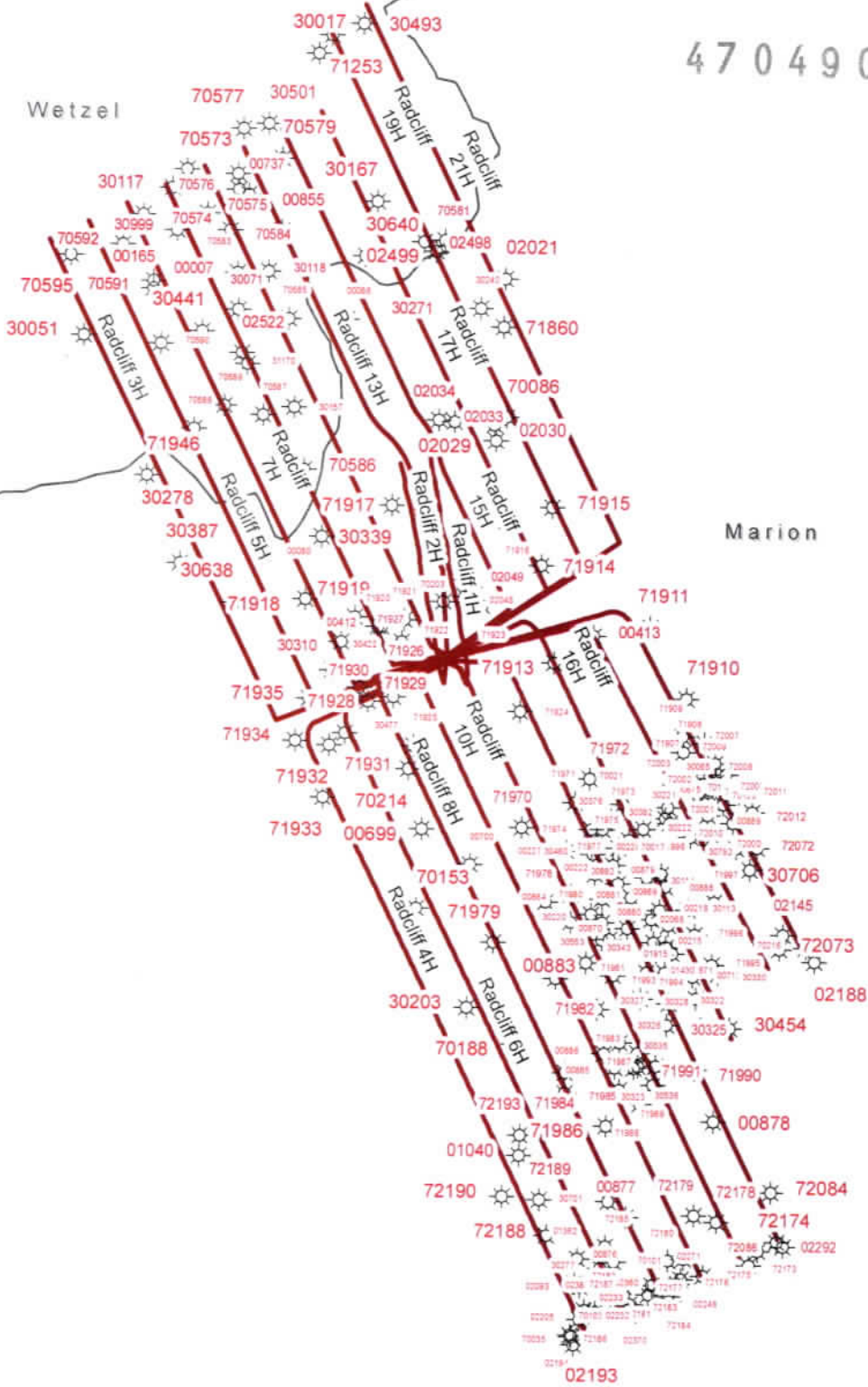
Wetzel

4704902514



Wetzel

Marion



Wetzel

EQT
 EQT Corporation
 625 Liberty Avenue
 Pittsburgh, PA 15222

Radcliff

Vertical Offsets and Foreign Laterals within 500'

Created By: Kellen Wakman Printed By: McCloyC on 7/12/2023
 Path: \\s01p1\file\share\windows_net\gs\users\kdw\hugna\Vertical_Offset-Foreign_Well_Working_Map_updates_v3.mxd

Legend
 Foreign_Offset_Wells

Well Lateral_FM Formation
 Genesee
 Marcellus
 Utica

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.



REC'D
 AUG 18 2023
 1,646,784
 WV Department of Environmental Protection
 WV
 Marion
 09/15/2023

4704902514

LINE	DATE	DESCRIPTION	AMOUNT	CHECK	BALANCE	MEMO
0001	07/20/23	WELLS FARGO	100.00			
0002	07/20/23	WELLS FARGO	100.00			
0003	07/20/23	WELLS FARGO	100.00			
0004	07/20/23	WELLS FARGO	100.00			
0005	07/20/23	WELLS FARGO	100.00			
0006	07/20/23	WELLS FARGO	100.00			
0007	07/20/23	WELLS FARGO	100.00			
0008	07/20/23	WELLS FARGO	100.00			
0009	07/20/23	WELLS FARGO	100.00			
0010	07/20/23	WELLS FARGO	100.00			
0011	07/20/23	WELLS FARGO	100.00			
0012	07/20/23	WELLS FARGO	100.00			
0013	07/20/23	WELLS FARGO	100.00			
0014	07/20/23	WELLS FARGO	100.00			
0015	07/20/23	WELLS FARGO	100.00			
0016	07/20/23	WELLS FARGO	100.00			
0017	07/20/23	WELLS FARGO	100.00			
0018	07/20/23	WELLS FARGO	100.00			
0019	07/20/23	WELLS FARGO	100.00			
0020	07/20/23	WELLS FARGO	100.00			
0021	07/20/23	WELLS FARGO	100.00			
0022	07/20/23	WELLS FARGO	100.00			
0023	07/20/23	WELLS FARGO	100.00			
0024	07/20/23	WELLS FARGO	100.00			
0025	07/20/23	WELLS FARGO	100.00			
0026	07/20/23	WELLS FARGO	100.00			
0027	07/20/23	WELLS FARGO	100.00			
0028	07/20/23	WELLS FARGO	100.00			
0029	07/20/23	WELLS FARGO	100.00			
0030	07/20/23	WELLS FARGO	100.00			
0031	07/20/23	WELLS FARGO	100.00			
0032	07/20/23	WELLS FARGO	100.00			
0033	07/20/23	WELLS FARGO	100.00			
0034	07/20/23	WELLS FARGO	100.00			
0035	07/20/23	WELLS FARGO	100.00			
0036	07/20/23	WELLS FARGO	100.00			
0037	07/20/23	WELLS FARGO	100.00			
0038	07/20/23	WELLS FARGO	100.00			
0039	07/20/23	WELLS FARGO	100.00			
0040	07/20/23	WELLS FARGO	100.00			
0041	07/20/23	WELLS FARGO	100.00			
0042	07/20/23	WELLS FARGO	100.00			
0043	07/20/23	WELLS FARGO	100.00			
0044	07/20/23	WELLS FARGO	100.00			
0045	07/20/23	WELLS FARGO	100.00			
0046	07/20/23	WELLS FARGO	100.00			
0047	07/20/23	WELLS FARGO	100.00			
0048	07/20/23	WELLS FARGO	100.00			
0049	07/20/23	WELLS FARGO	100.00			
0050	07/20/23	WELLS FARGO	100.00			
0051	07/20/23	WELLS FARGO	100.00			
0052	07/20/23	WELLS FARGO	100.00			
0053	07/20/23	WELLS FARGO	100.00			
0054	07/20/23	WELLS FARGO	100.00			
0055	07/20/23	WELLS FARGO	100.00			
0056	07/20/23	WELLS FARGO	100.00			
0057	07/20/23	WELLS FARGO	100.00			
0058	07/20/23	WELLS FARGO	100.00			
0059	07/20/23	WELLS FARGO	100.00			
0060	07/20/23	WELLS FARGO	100.00			

VED
and Gas
AUG 09 2023
Department of
Thermal Protection

09/15/2023

WW-9
(4/16)

4704902514

API Number 47 - _____ - _____
Operator's Well No. Radcliff 16H

**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) Bartholomew Fork Quadrangle Glover Gap

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
- Undergound 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 Project Specialist - Permitting

Subscribed and sworn before me this 27th day of July, 20 23

[Signature] Notary Public

My commission expires March 9, 2024

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AUG 09 2023
WV Department of Environmental Protection

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

09/15/2023

4704902514

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

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EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 500 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: Randall M. Kuchler

Comments: Pre-seed/mulch all disturbed areas as soon as reasonably possible, per regulation. Upgrade E&S as necessary per WV DEP E&S Manual.

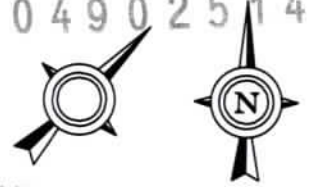
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Title: Oil & Gas Inspector

Date: Aug. 2, 2023

Field Reviewed? Yes No

4704902514



PREVAILING WIND

RADCLIFF WELL PAD
WELL PAD EXPANSION
2' HIGH CONCRETE BERM

2H
1H
WELL PAD EXPANSION

24-12-0040-0003-0000
JASON G &
HEATHER STOUT

UNT TO BARTHOLOMEW FORK

SUMPS

MOUNTABLE BERM

LIMITS OF DISTURBANCE

EXISTING GAS LINE
(APPROXIMATE LOCATION)

UNT TO BARTHOLOMEW FORK
(EPHEMERAL STREAM)

WELL PAD EXPANSION

EXCESS MATERIAL
STOCKPILE

24-12-0040-0010-0001
JACKIE D & SHEA L
RADCLIFF

24-12-0040-0019-0001
JACKIE D & SHEA L
RADCLIFF

EXISTING ROCK PILE

EXISTING ROCK PILE

DELINEATED WETLAND
0.007 AC

DELINEATED WETLAND
0.033 AC

TRUCK PULL OFF AREA

DELINEATED WETLAND
0.089 AC

DELINEATED WETLAND
0.095 AC

DELINEATED WETLAND
0.015 AC

DELINEATED WETLAND
0.048 AC

DELINEATED WETLAND
0.135 AC

UNT TO BARTHOLOMEW FORK

24-12-0040-0002-0000
WINFORD H & LULA
& KNIGHT

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WV Department of
Environmental Protection
24-12-0040-0002-0002
JES W OR
WELLA D BOGAE

MURRAY RUN (CR-44)

24-12-0040-0023-0000
HILDA L SWEENEY

UNT TO BARTHOLOMEW FORK

REFERENCES UNITED STATES GEOLOGICAL SURVEY - GLOVER GAP
QUADRANGLE, STATE, 7.5 MINUTE SERIES

SCALE: 0 350 ft.

WW-9 EXHIBIT
made for
EQT PRODUCTION COMPANY
RADCLIFF WELL SITE
MARION COUNTY, WEST VIRGINIA
prepared by
DIEFFENBAUCH & HRITZ, LLC

1095 Chaplin Rd Suite 200, Morgantown, WV 26501
Phone: 304-985-5555 Fax: 304-985-5557

09/15/2023

SCALE: 1:350 PLOTTED: 6/11/2021 11:35 AM FILE: X:\OIL AND GAS\ECT\2020\2007\0-028 - RADCLIFF\ADD (K DRIVE) - WYTO CLIENT\DWGRADCLIFF_WW-9 EXHIBIT.DWG

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 Athens 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	28332 West Belpre Pike		Coolville	OH	45723	304-488-0701	Athens	OH	
Nuverra - Nichols	10555 West Road		Belpre	OH	45714	330-232-5041	Washington	OH	34-119-2-8776
Nuverra - Goff	550 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 SAFETY AND ENVIRONMENTAL PLAN

Radcliff Well Site

Mannington
Marion County, WV

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

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

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 8-Apr-21

John F. Zavatchan Jr.

John Zavatchan
Project Specialist - Permitting
EQT Production Company

Randall M. Kirchberg

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

Oil and Gas Inspector
WVDEP Office of Oil and Gas

09/15/2023

Topo Quad: Glover Gap

Scale: 1" = 1000' 4704902514

County: Marion

Date: September 29, 2021

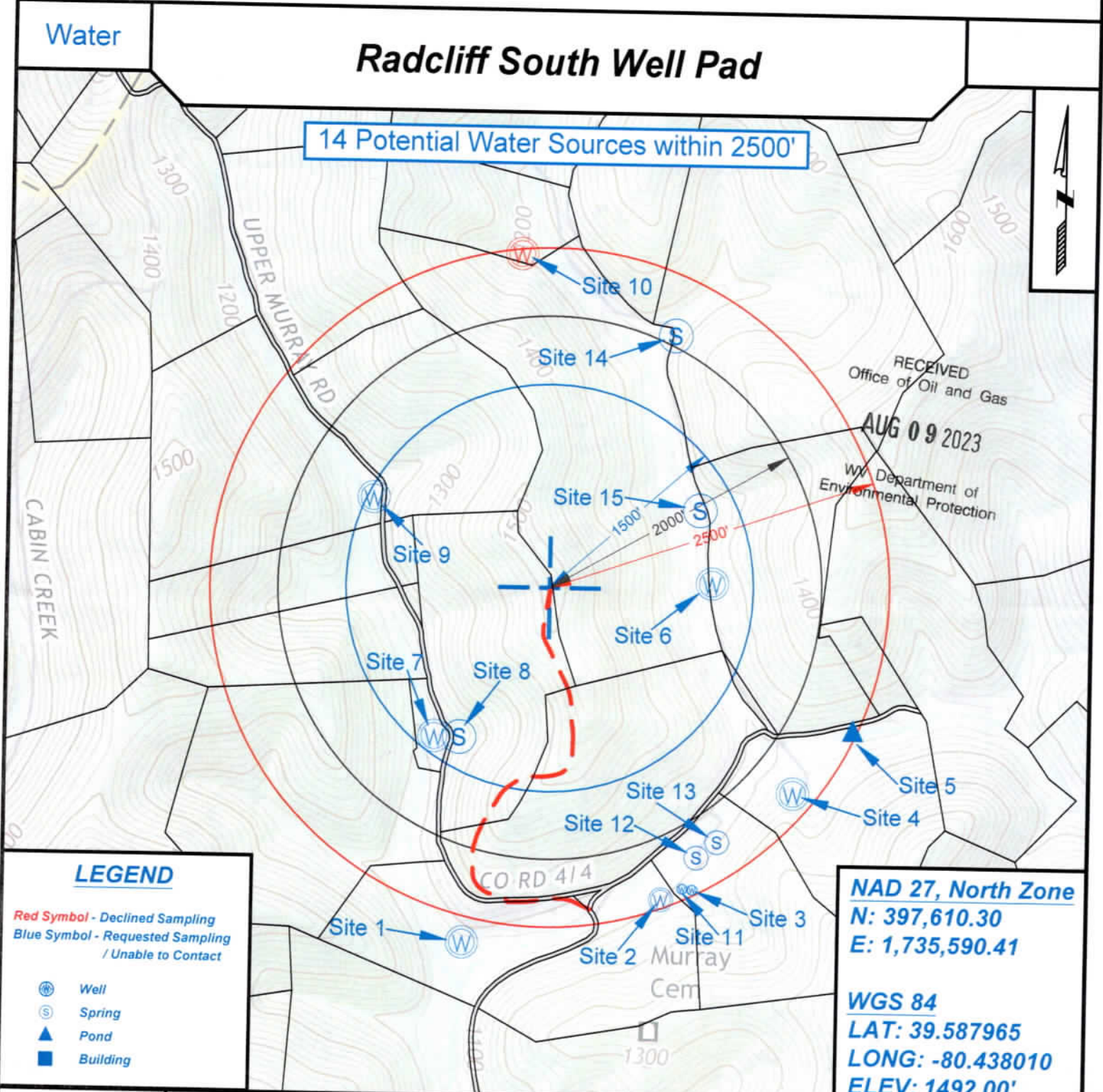
District: Mannington

Project No: 113-18-M-21

Water

Radcliff South Well Pad

14 Potential Water Sources within 2500'



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LEGEND

Red Symbol - Declined Sampling
Blue Symbol - Requested Sampling / Unable to Contact

- Well
- Spring
- Pond
- Building

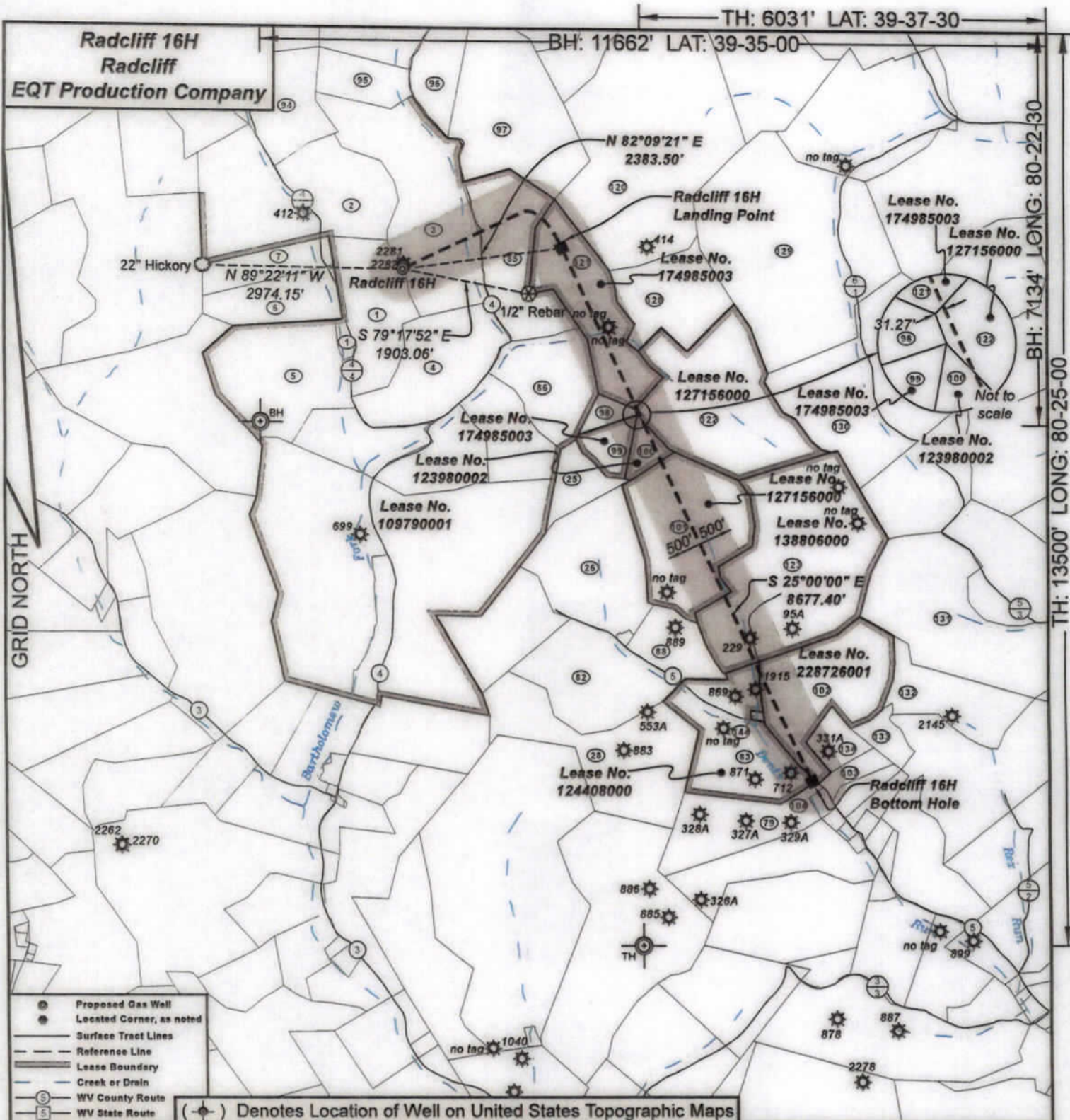
NAD 27, North Zone
N: 397,610.30
E: 1,735,590.41

WGS 84
LAT: 39.587965
LONG: -80.438010
ELEV: 1492.00'



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
400 Woodcliff Drive
Canonsburg, PA 15317
09/15/2023



- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- - - Reference Line
- ▬ Lease Boundary
- Creek or Drain
- ⊙ WV County Route
- ⊙ WV State Route

(⊙) 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 the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO: 113-21
DRAWING NO: Radcliff 16H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

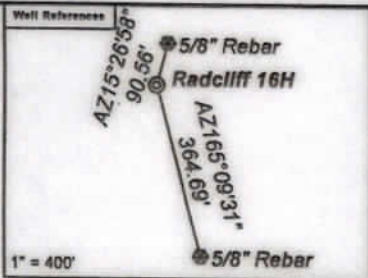


DATE: July 20 20 23
OPERATOR'S WELL NO.: Radcliff 16H
API WELL NO
47 - 049 - 02514
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1493' WATERSHED Bartholomew Fork QUADRANGLE: Glover Gap
 DISTRICT: Mannington COUNTY: Marion
 SURFACE OWNER: Jackie D. & Sheila L. Radcliff ACREAGE: 48.68
 ROYALTY OWNER: Rebecca R. Shuttlesworth, et al. LEASE NO: 109790001 ACREAGE: 1090
 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: 7916'
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
 Canonsburg, PA 15317 Clarksburg, WV 26301

09/15/2023

Radcliff 16H
Radcliff
EQT Production Company



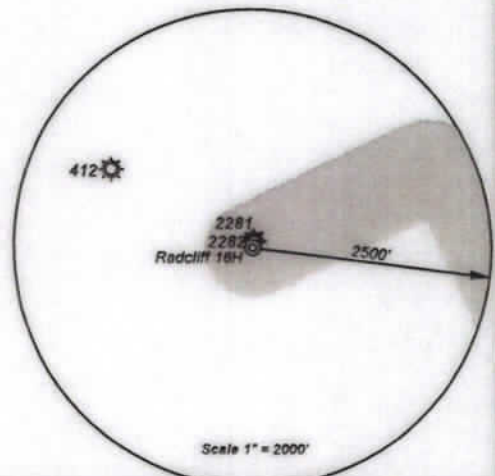
Notes:
Radcliff 16H coordinates are
NAD 83 N: 397,638.78 E: 1,704,136.29
NAD 83 Lat: 39.587939 Long: -80.438055
NAD 83 UTM N: 4,382,174.94 E: 548,253.79
Radcliff 16H Landing Point coordinates are
NAD 83 N: 397,954.09 E: 1,706,497.48
NAD 83 Lat: 39.588900 Long: -80.429700
NAD 83 UTM N: 4,382,286.05 E: 548,971.50
Radcliff 16H Bottom Hole coordinates are
NAD 83 N: 390,099.70 E: 1,710,164.71
NAD 83 Lat: 39.567413 Long: -80.416403
NAD 83 UTM N: 4,379,906.71 E: 550,128.76
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.

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	40	10.1	Marion	Mannington	Jackie D. & Sheila L. Radcliff	48.08
2	40	10	Marion	Mannington	Shelly L. Nelson	43.03
3	40	3	Marion	Mannington	Jason G. & Heather R. Stout	99.75
4	40	2	Marion	Mannington	Lula B. Knight	56.32
5	40	11	Marion	Mannington	Clarence W. Sweeney	63
6	40	12	Marion	Mannington	Jackie D. & Sheila L. Radcliff	27.35
7	40	13	Marion	Mannington	Shelly L. Nelson	19.75
25	35	3	Marion	Mannington	Thomas G. & Theresa A. Jones	10.25
26	35	5	Marion	Mannington	Thomas G. & Theresa A. Jones	61.85
28	38	21	Marion	Mannington	Dennis G. & Louise M. Hayes	74.895
50	38	11	Marion	Mannington	Yulla Nikolaeva	115
79	38	19	Marion	Mannington	Dorothy D. Hendershot	38.246
80	38	19.4	Marion	Mannington	William E. Hendershot	39.702
81	38	15	Marion	Mannington	Michael & Julia A. Billie	58.67
82	38	21.1	Marion	Mannington	Douglas E. & Debra J. Muffield	54.669
83	38	20	Marion	Mannington	Dennis G. & Louise M. Hayes	59.24
85	38	16	Marion	Mannington	Jason G. & Heather R. Stout	48.12
86	39	2	Marion	Mannington	Lula B. Knight	43.89
88	38	21.1	Marion	Mannington	Ronald & Jean Hayes	21.55
94	40	9	Marion	Mannington	Karl A. Gouzd	35.32
95	40	4	Marion	Mannington	ERX-EM LLC	20.8
96	NA	NA	Marion	Mannington	Tax Info Not Available	NA
97	26	15	Marion	Mannington	Jason G. & Michelle R. Stout	91.9
98	39	15	Marion	Mannington	Jason G. & Michelle R. Stout	7.5
99	26	17	Marion	Mannington	Jason G. & Michelle R. Stout	57
100	39	16	Marion	Mannington	Jason G. & Michelle R. Stout	7.851
101	39	7	Marion	Mannington	Dennis Markel & John Pheasant	84
102	39	9	Marion	Mannington	Dennis Markel & John Pheasant	62.5
103	39	11.2	Marion	Mannington	Michael F. & Kerri Berthy	7.01
104	38	29.2	Marion	Mannington	Dorothy D. Hendershot	2.245
105	38	29.5	Marion	Mannington	Dorothy D. Hendershot	1.456
106	38	29.3	Marion	Mannington	Robin R. Smith & James W. Hendershot	1.01
107	38	29.1	Marion	Mannington	David A. Wright	1.17
108	39	11.1	Marion	Mannington	Kerry Drloff & Michael Berthy	1.92
109	39	11.3	Marion	Mannington	Kerri F. & Michael F. Berthy	8.11
110	39	11.4	Marion	Mannington	Lynn E. Sturm	2.73
111	38	18	Marion	Mannington	William D. Crocker	0.25
120	26	12	Marion	Mannington	ERX-EM LLC	132.25
121	26	17	Marion	Mannington	Jason G. & Michelle R. Stout	57
122	39	1	Marion	Mannington	Albert C. Woods Helms	90.6
123	39	8	Marion	Mannington	Dennis Markel & John Pheasant	128.435
126	26	18	Marion	Mannington	ERX-EM LLC	41
129	26	3	Marion	Mannington	Thomas C. Carpenter, et al.	150.95
130	26	2.1	Marion	Mannington	Larry Goll	180.04
131	28	19	Marion	Mannington	Rickey C. Bennett	94.12
132	39	14	Marion	Mannington	Lee R. & Sherri L. Taylor	36.09
133	39	13.1	Marion	Mannington	Michael F. & Kerri Berthy	9.26
134	39	10	Marion	Mannington	Dennis Markel & John Pheasant	12.17
135	39	11	Marion	Mannington	Michael F. & Kerri Berthy	7
144	38	20.1	Marion	Mannington	Donald Malone	0.5

Radcliff

- Radcliff 18H ☉
- Radcliff 16H ☉
- Radcliff 14H ☉
- Radcliff 12H ☉
- Radcliff 10H ☉
- Radcliff 8H ☉
- Radcliff 6H ☉
- Radcliff 4H ☉

Lease No.	Owner	Acres
109790001	Rebecca R. Shufflesworth, et al.	1090
174985003	Country Roads Minerals, LLC, et al.	59
127156000	EQT Production Company, et al.	97.25
123980002	Country Roads Minerals, LLC, et al.	9
127156000	EQT Production Company, et al.	84
138808000	Nancy Ellen Dennison, et al.	129
228726001	Bounty Minerals, LLC	62.5
124408000	The Mineral Company	59.75



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton

P.S. 2092



SEAL

FILE NO: 113-21
DRAWING NO: Radcliff 16H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: July 20 20 23
OPERATOR'S WELL NO.: Radcliff 16H
API WELL NO
47 - 049 - D2514
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1493' WATERSHED: Bartholomew Fork QUADRANGLE: Glover Gap
DISTRICT: Mannington COUNTY: Marion
SURFACE OWNER: Jackie D. & Sheila L. Radcliff ACREAGE: 48.08
ROYALTY OWNER: Rebecca R. Shufflesworth, et al. LEASE NO: 109790001 ACREAGE: 1090
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: 7916'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

09/15/2023

**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
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See Attached

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

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

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator: EQT Production Company *John F. Zavatchan Jr*
By: John Zavatchan
Its: Project Specialist - Permitting

4704902514

WW-6A1 Attachment

Operator's Well No.

Radcliff 16H

Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page	
<u>103790001</u>	<u>Rebecca R. Shuttlesworth, et al.</u> Rebecca R. Shuttlesworth, Power of Attorney Mr. Robert L. Quinn, Gr., Widower American Shale Development, Inc. Republic Partners VIII, LLC Republic Energy Ventures, LLC American Shale Development, Inc.	1050 ac	American Shale Development, Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1117/329 AB 47/469 AB 51/525 DB 1228/1	Confirmatory Deed
<u>174985003</u>	<u>Country Roads Minerals, LLC, et al.</u> Country Roads Minerals, LLC	59 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1291/535	
<u>127156000</u>	<u>EQT Production Company, et al.</u> Republic Energy Ventures, LLC Republic Partners VIII, LLC	97.25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1200/1	
<u>123980002</u>	<u>Country Roads Minerals, LLC, et al.</u> Robert L. Jones Antero Resources Corporation	9 ac	Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1211/896 AB 56/332	
<u>127156000</u>	<u>EQT Production Company, et al.</u> Republic Energy Ventures, LLC Republic Partners VIII, LLC	84 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1200/1	
<u>138806000</u>	<u>Nancy Ellen Dennison, et al.</u> Alfred Kendall	129 ac	N. C. Smith Ellen Smith and W. J. Smith, partners tdb under the firm name of W. D. Smith and son Lawrence Hoffman P. L. Hoffman H. D. Heckman	"at least 1/8th per WV Code 22-6-8"	DB 196/165 DB 217/257	
	N. C. Smith Ellen Smith and W. J. Smith, partners tdb under the firm name of W. D. Smith and son Lawrence Hoffman P. L. Hoffman H. D. Heckman W. W. Hepburn		W. W. Hepburn Eastern Petroleum Company		DB 217/259 DB 217/307	

Alfred Kendall		Eastern Petroleum Company	DB 226/73
Eastern Petroleum Company The Pennsylvania Company for Insurances on Lives and Granting Annuities, Trustee Thomas Reath, Jr		The Pennsylvania Company for Insurances on Lives and Granting Annuities, Trustee	TB 43/1
Eastern Petroleum Company E. K. Green, Trustee of Alfred Kendall Estate		Clifton Oil & Gas Company Clifton Oil & Gas Company Clifton Oil & Gas Company	DB 260/147 DB 260/159 DB 286/367
Clifton Oil and Gas Company OKMAR Oil Company Quaker State Oil Refining Corporation		Adolph Beren, Harry H. Beren, and Israel H. Beren, partners doing business under the firm name and style of OKMAR Oil Company Quaker State Oil Refining Corporation B-C Oil and Gas Company, Inc. Clarence W. Mutschelknaus, Sr. Clarence W. Mutschelknaus, Jr. Jacklyn A. Rominger William R. Johnson	DB 438/41 DB 482/375 AB 6/132 AB 12/293
B-C Oil and Gas Company, Inc. Clarence W. Mutschelknaus, Sr. Clarence W. Mutschelknaus, Jr. Jacklyn A. Rominger William R. Johnson Cobham Gas Industries, Inc. Prima Oil Company, et al. Trans Energy, Inc. Prima Oil Company, Inc. Trans Energy, Inc. Trans Energy, Inc. Republic Partners VIII, LLC Republic Energy Ventures, LLC, et al. Trans Energy, Inc., et al.		Cobham Gas Industries, Inc. Prima Oil Company Trans Energy, Inc. Republic Energy Ventures, LLC Republic Energy Ventures, LLC Republic Energy Ventures, LLC EQT Production Company EQT Production Company	AB 15/339 AB 27/258 AB 30/165 AB 39/953 AB 41/325 AB 47/511 AB 51/525 DB 1228/1

<u>228726001</u>	<u>Bounty Minerals, LLC</u>			"at least 1/8th per WV Code 22-6-8"	
	Bounty Minerals, LLC	62.5 ac	EQT Production Company		DB 1323/125

<u>124408000</u>	<u>The Mineral Company</u>			"at least 1/8th per WV Code 22-6-8"	
	Dennis G. Hayes & Louise M. Hayes, Married American Shale Development, Inc.	59.75 ac	American Shale Development, Inc. EQT Production Company		DB 1121/375 DB 1228/1

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 Office of Oil and Gas
 May 09 2023
 Environmental Protection
 Department of

4704902514



4704902514

July 27, 2023

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

Re: Radcliff 16H 6A1 Addendum

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT Production Company's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

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

Sincerely,

John Zavatchan
Project Specialist - Permitting

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Enc.

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Radcliff 16H
EQT Production Company
 "Detail of Lease No. 127156000"



Lease No.
174985003

39-15
Jason G. & Michelle R. Stout
7.5 Acres

31.27'

Lease No.
127156000

Proposed Well Bore



Scale: 1 Inch = 100 Feet

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 74985003
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Lease No.
174985003

Lease No.
123980002

4704902514

Birch River Office
 Phone: (304) 649-8606
 Fax: (304) 649-8608

237 Birch River Road
 Birch River, WV 26610
 www.allegheysurveys.com



PARTY CHIEF: NA	DRAWING NO: 16H Well Bore Detail.dwg
RESEARCH: NA	PROJECT NO: 113-18-M-21
SURVEYED: NA	PREPARED: July 24, 2023
FIELD CREW: NA	DRAWN BY: Tim Rutledge

Sheet 1 of 1

WW-6A1 Attachment

Operator's Well No.

Radcliff 16H Addendum

Lease No.

Grantor, Lessor, etc.

Acres

Grantee, Lessee, etc.

Royalty

Book/Page

122000001

Country Roads Minerals, LLC, et al.

Robert L. Jones

Antero Resources Corporation

7.5 ac

Antero Resources Corporation

EOG Production Company

"at least 1/8th per WV
Code 22-6-8"

DB 1211/893

AB 56/332

WV Department of
Environmental Protection

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REC'D
ENVIRONMENTAL PROTECTION
DIVISION

4704902514



4704902514

EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

June 27, 2023

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

Re: Radcliff 16H Gas Well
Mannington District, Marion County, WV

Dear Mr. Brewer,

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

Sincerely,

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

John Zavatchan
Project Specialist - Permitting

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09/15/2023

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

Date of Notice Certification: 7/27/2023

API No. 47- _____
Operator's Well No. 16H _____
Well Pad Name: Radcliff

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>548,253.785</u>
County:	<u>Marion</u>		Northing:	<u>4,382,174.936</u>
District:	<u>Mannington</u>	Public Road Access:	<u>CR 4</u>	
Quadrangle:	<u>Glover Gap</u>	Generally used farm name:	<u>Jackie D. Radcliff and Sheila L. Radcliff</u>	
Watershed:	<u>Bartholomew Fork</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: 100px;"><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 checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

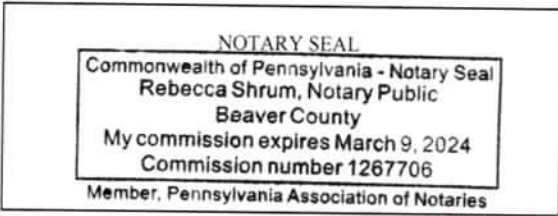
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

09/15/2023

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>400 Woodcliff Drive</u>
By:	<u>John Zavatchan</u>		<u>Canonsburg, PA 15317</u>
Its:	<u>Project Specialist - Permitting</u>	Facsimile:	<u>412-395-2974</u>
Telephone:	<u>724-746-9073</u>	Email:	<u>jzavatchan@eqt.com</u>



Subscribed and sworn before me this 27th day of July 2023.

Rebecca Shrum Notary Public

My Commission Expires March 9, 2024

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 deprivacyofficer@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: 7/27/2023 **Date Permit Application Filed:** 8/8/2023

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 List
Address: _____

Name: _____
Address: _____

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

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: N/A
Address: _____

COAL OWNER OR LESSEE
Name: See Attached List
Address: _____

COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

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WV Department of Environmental Protection
GAS STORAGE FIELD

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.

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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.

WV Department of
Environmental Protection

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

09/15/2023

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 22-6A-11(a) 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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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

09/15/2023

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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WW-6A
(8-13)

4704902514
API NO. 47- _____
OPERATOR WELL NO. 16H _____
Well Pad Name: Radcliff _____

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 724-746-9073

Email: jzavatchan@eqt.com



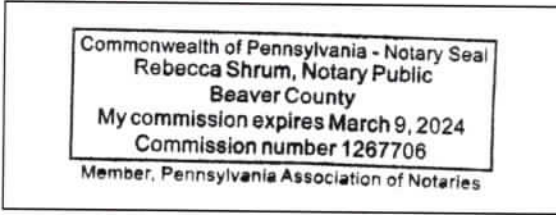
Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 27th day of July, 2023.

Rebecca Shrum Notary Public

My Commission Expires March 9, 2024

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4704902514

Surface Owners:

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

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

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

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

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

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

Coal Owners:

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

Douglas A. Gwinn ✓
95 Sabraton Avenue
Fairmont, WV 26554

Rebecca Shuttlesworth ✓
468 Katy Road
Fairmont, WV 26554

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

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

I.L. Morris ✓
PO Box 397
Glennville, WV 26351

Cynthia Ann Garner ✓
314 Woodridge Drive
Locust Grove, GA 3024

Amy Renee Russell ✓
141 Lossie Lane
McDonough, GA 30253

Charles Stewart ✓
181 East Chestnut Street
Blairsville, PA 15717

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✓
James R. Batson
3 Red Sky Drive
Morgantown, WV 26508

✓
Sandra F. Hulseley
PO Box 238
Worthington, WV 26591

✓
Sharon D. Wright
209 Jefferson Street
Mannington, WV 26582

✓
William Williamson
21811 Aquasco Road
Aquasco, MD 20608

Water Supply Owners within 1,500':

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

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

✓
Shelly Nelson
325 Cabin Creek Rd.
Mannington WV 26582

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Topo Quad: Glover Gap

Scale: 1" = 1000' 4704902514

County: Marion

Date: September 29, 2021

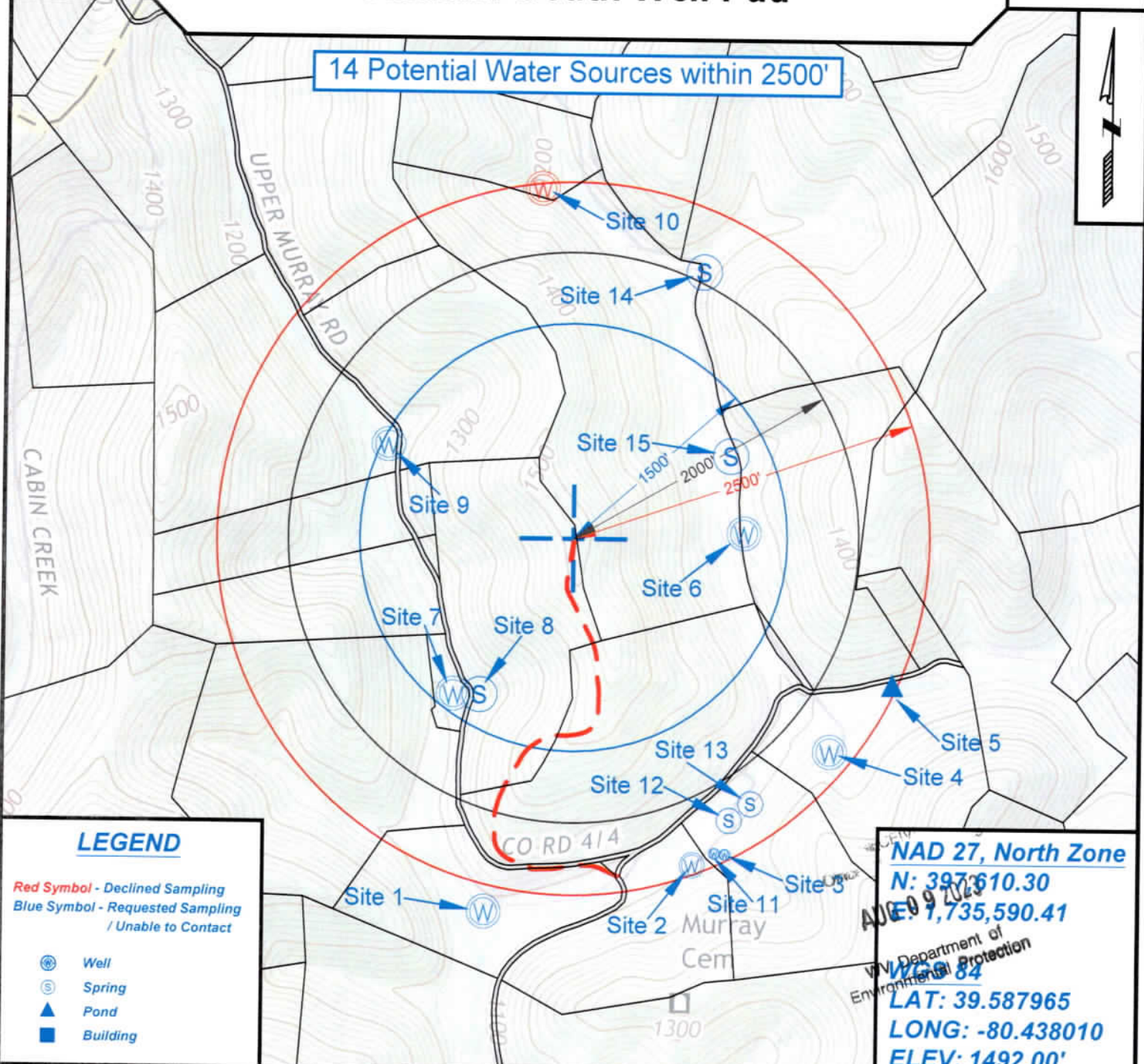
District: Mannington

Project No: 113-18-M-21

Water

Radcliff South Well Pad

14 Potential Water Sources within 2500'



LEGEND

Red Symbol - Declined Sampling
 Blue Symbol - Requested Sampling / Unable to Contact

- Well
- Spring
- Pond
- Building

NAD 27, North Zone

N: 397,610.30

E: 1,735,590.41

LAT: 39.587965

LONG: -80.438010

ELEV: 1492.00'

APR 9 2023
 WV Department of Environmental Protection
 WGS 84



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company

400 Woodcliff Drive
 Canonsburg, PA 15317

09/15/2023



Table 1 – Water Source Identification

EQT Well Pad Name: **Radcliff South**

Submittal Date: **7/14/2023**

EQT Well Number: _____

Survey / Engineering Company: **Allegheny Surveys, Inc.**

Site Number: **1** Distance from Gas Well (feet): **2690.72**

Surface Owner / Occupant: **Richard Beaty** (formerly Sweeney)

Address: **481 Upper Murray Rd. Mannington WV 26582** Phone #: **304-986-2878**

Field Located Date: **9/27/2018** Owner home during survey (yes/no): **Yes**

Coordinates: **39.345062, -80.262371** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **9/26/2018** 2nd: **9/29/2021** Door Hanger Left: _____

Comments: **Water well located behind mobile home next to outbuilding. Very nice man.**

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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>

Site Number: **2** Distance from Gas Well (feet): **2460.96**

Surface Owner / Occupant: **James and Jonella Boore**

Address: **468 Upper Murray Rd. Mannington WV 26582** Phone #: **304-986-1517**

Field Located Date: **9/27/2018** Owner home during survey (yes/no): **Yes**

Coordinates: **39.345410, -80.260514** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **9/26/2018** 2nd: **9/30/2021** Door Hanger Left: _____

Comments: **Water well located on NE side of house. Very friendly.**

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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>

Site Number: **3** Distance from Gas Well (feet): **2485.91**

Surface Owner / Occupant: **Heather Stout**

Address: **546 Upper Murray Rd. Mannington WV 26582** Phone #: **304-986-1577**

Field Located Date: **9/27/2018** Owner home during survey (yes/no): **No**

Coordinates: **39.345487, -80.260221** (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: **9/26/2018** 2nd: **9/30/2021** Door Hanger Left: **Yes**

Comments: **Spoke to friend there. Said she would ask and be in touch. Water well located behind house.**

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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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(Insert additional pages as needed)

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Site Number: 4 Distance from Gas Well (feet): 2376.91

Surface Owner / Occupant: Winford Knight

Address: 638 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1807

Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.350209, -80.255303 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: _____

Comments: Water well located beside aluminum wheelchair ramp. Unable to see water well. Nice elderly couple.

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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>

Site Number: 5 Distance from Gas Well (feet): 2461.76

Surface Owner / Occupant: Winford Knight

Address: 638 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1807

Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.350687, -80.254806 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: _____

Comments: Pond located.

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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>

Site Number: 6 Distance from Gas Well (feet): 1231.83

Surface Owner / Occupant: Jason and Michelle Stout

Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087

Field Located Date: 10/08/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.351716, -80.260111 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Spoke to Michelle. Said she would ask and be in touch. Located water well on 10/08/2018.

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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>

Site Number: 7 Distance from Gas Well (feet): 1367.33

Surface Owner / Occupant: Jackie Radcliff

Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968

Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.351716, -80.260111 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Water well located 9/27/2018 on upper end of house.

<input checked="" type="checkbox"/>	Landowner Requested Sampling
<input 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>

WV Department of Environmental Protection

Site Number: 8 Distance from Gas Well (feet): 1318.14

Surface Owner / Occupant: Jackie Radcliff

Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968

Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.350548, -80.262547 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: _____

Comments: Spring located next to road coming off hill.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input 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>

Site Number: 9 Distance from Gas Well (feet): 1416.84

Surface Owner / Occupant: Shelly Nelson (Formerly Sandor Frecska)

Address: 325 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-1807

Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes

Coordinates: 39.350687, -80.254806 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: _____

Comments: Water well located next to driveway beside garage.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input 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>

Site Number: 10 Distance from Gas Well (feet): 2429

Surface Owner / Occupant: EBX-EM LLC

Address: 6575 W Loop S Ste 300, Bellaire TX 77401 Phone #: _____

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

Coordinates: 39.354067, -80.261879 (decimal degrees – NAD 83)

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

Comments: Property behind gate. Has water well. Formerly Henry Deem - called on 10/4/2021 & said he had sold property. Signature page received 10/11/2021 declining sampling. Property was granted to EBX-EM LLC on 9/15/2021 (DB 1289/894).

<input type="checkbox"/> Landowner Requested Sampling
<input 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>

Site Number: 11 Distance from Gas Well (feet): 2448.09

Surface Owner / Occupant: Heather Stout

Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577

Field Located Date: 10/15/2018 Owner home during survey (yes/no): No

Coordinates: 39.345492, -80.260315 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Stout's second water well located at end of house.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input 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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Site Number: 12 Distance from Gas Well (feet): 2290.16

Surface Owner / Occupant: Heather Stout

Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577

Field Located Date: 10/15/2018 Owner home during survey (yes/no): No

Coordinates: 39.345721, -80.260191 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Spring located near garage in fence line.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input 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>

Site Number: 13 Distance from Gas Well (feet): 2272

Surface Owner / Occupant: Heather Stout

Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577

Field Located Date: 10/15/2018 Owner home during survey (yes/no): No

Coordinates: 39.345838, -80.260001 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Spring in tree line next to barn. Must go through electric fence. Very muddy.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input 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>

Site Number: 14 Distance from Gas Well (feet): 2078.98

Surface Owner / Occupant: Jason and Michelle Stout

Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087

Field Located Date: 10/08/2018 Owner home during survey (yes/no): _____

Coordinates: 39.353512, -80.260514 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Stream located on upper end of Stout's property. Very rough and muddy road.

<input checked="" type="checkbox"/> Landowner Requested Sampling
<input 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>

Site Number: 15 Distance from Gas Well (feet): 1270.14

Surface Owner / Occupant: Jason and Michelle Stout

Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087

Field Located Date: 10/08/2018 Owner home during survey (yes/no): _____

Coordinates: 39.352244, -80.260243 (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

Comments: Stream located closer to Stout's house.

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

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WV Department of Environmental Protection

09/15/2023

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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: 04/27/2023 **Date Permit Application Filed:** 8/18/2023

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: See Attached List
Address: _____

Name: See Attached List
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>548253.785</u>
County:	<u>Marion</u>		Northing:	<u>4382174.936</u>
District:	<u>Mannington</u>	Public Road Access:		<u>CR 4/4</u>
Quadrangle:	<u>Glover Gap</u>	Generally used farm name:		<u>Jackie D. Radcliff and Sheila L. Radcliff</u>
Watershed:	<u>Bartholomew Fork</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: EQT Production Company
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Authorized Representative: John Zavatchan
Address: 400 Woodcliff Drive
Canonsburg, PA 15317
Telephone: 724-746-9073
Email: jzavatchan@eqt.com
Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

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

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Surface Owners:

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

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

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

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

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

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

RECEIVED
Office of Oil and Gas

AUG 09 2023

WV Department of
Environmental Protection

09/15/2023

4704902514

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: 7/27/2023 **Date Permit Application Filed:** 8/8/2023

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: _____
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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>548,253.785</u>
County: <u>Marion</u>		Northing: <u>4,382,174.936</u>
District: <u>Mannington</u>	Public Road Access: <u>CR 4/4</u>	
Quadrangle: <u>Glover Gap</u>	Generally used farm name: <u>Jackie D. Radcliff and Sheila L. Radcliff</u>	
Watershed: <u>Bartholomew Fork</u>		

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: <u>EQT Production Company</u>	Address: <u>400 Woodcliff Drive</u>
Telephone: <u>724-746-9073</u>	<u>Canonsburg, PA 15317</u>
Email: <u>jzsvatchen@eqt.com</u>	Facsimile: <u>412-395-2974</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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Surface Owners:

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

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

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

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

Lula B. Knight
638 Upper Murray Rd.
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

April 24, 2023

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

Subject: DOH Permit for the Radcliff Pad, Marion County
Radcliff 16H Well Site

Dear Mr. Martin,

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

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

Very Truly Yours,

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

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

REC-5156
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**Anticipated Frac Additives
Chemical Names and CAS Numbers**

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

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09/15/2023

OPERATOR: EQT Production Company WELL NO: 16H

PAD NAME: Radcliff

REVIEWED BY: John Zavatchan

SIGNATURE: 

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

DEP Waiver and Permit Conditions

At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

DEP Waiver and Permit Conditions

At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

Office of Utility Services
AUG 09 2023
Department of Environmental Protection