

# 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

EOT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re:

Permit approval for Radcliff 10H

47-049-02512-00-00

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.

Operator's Well Number: Radcliff 10H

Farm Name: Jackie D & Sheila L Radcliff

47-049-02512-00-00

U.S. WELL NUMBER: Horizontal 6A New Drill

Date Issued: 9/11/2023

# **PERMIT CONDITIONS**

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 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.
- 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.

2

API NO. 47
OPERATOR WELL NO. 10H
Well Pad Name: Reddiff

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

1) Well Operat	or: EQT Produ	uction Company	306686	Marion	Mannington	Glover Gap
			Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number: 10	)H	Well Pad	Name: Radcl	iff	
3) Farm Name/	Surface Owner:	Jackie D. & Sheila L.	Raddiff Public Road	d Access: CR	4/4	
4) Elevation, ci	urrent ground:	1,493' (built) El	levation, proposed p	oost-construction	on: 1,493'	
5) Well Type	(a) Gas X	Oil _	Unde	rground Storag	ge	
	Other					
	(b)If Gas Sha	allow X	Deep			
		rizontal X				
_	l: Yes or No Ye					
•	rget Formation(s 916', 78', 2,593 p		ipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed To	tal Vertical Dep	th: 7,916'				
9) Formation a	t Total Vertical I	Depth: Marcellus	3			
10) Proposed T	otal Measured D	Depth: 19,442'				
11) Proposed F	lorizontal Leg Lo	ength: 11,111'				
12) Approxima	ite Fresh Water S	Strata Depths:	460', 490', 621', 7	751'		
13) Method to	Determine Fresh	Water Depths:	Offset Weils - 049-02	184, 049-00699,	049-00168,	049-30339, 049 <b>-</b> 30238
14) Approxima	ite Saltwater Dep	oths: 1,856', 2,12	7', 2,247'		**	
l5) Approxima	te Coal Seam De	epths: 1,200'-1,20	06', 1,297'-1,304'		<del></del>	
16) Approxima	te Depth to Poss	ible Void (coal m	ine. karst, other): _	N/A		
-		n contain coal sea o an active mine?	ms Yes	No	<u>x</u>	
(a) If Yes, pro	ovide Mine Info:	Name:				
		Depth:				
		Seam:			0	HECEIVED.
		Owner:				To Ges
					•	AUG 0 9 2023

WV Department of Environmental Protection

Page 1 of 3 09/15/2023 WW-6B (04/15)

API NO. 47	<u>-</u>
OPERATOR WELL NO. 10H	
Well Pad Name: Reddiff	

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 GR 3 84%	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	19442	19442	500' above intermediate casing
Tubing							CEIVED GAS
Liners		_		-		Office of	Oil and Gas

Kandell M Kuchley Department of

			1		Deport	-ciiOD
Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated 101  Max. Internal  Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
26	30	0.312	1000	18	Class A/L	1.04 - 1.20
13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
						·
9 5/8	12 3/8	0.352	3520	2816	Class A/L	1.04 - 1.20
6	8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
	26 13 3/8 9 5/8	Diameter (in)           26         30           13 3/8         17 1/2           9 5/8         12 3/8	Size (in)         Wellbore Diameter (in)         Thickness (in)           26         30         0.312           13 3/8         17 1/2         0.380           9 5/8         12 3/8         0.352	Size (in)         Wellbore Diameter (in)         Thickness (in)         Burst Pressure (psi)           26         30         0.312         1000           13 3/8         17 1/2         0.380         2730           9 5/8         12 3/8         0.352         3520	Size (in)         Westgore Diameter (in)         Thickness (in)         Data (psi)         Max. Internal Pressure (psi)           26         30         0.312         1000         18           13 3/8         17 1/2         0.380         2730         2184           9 5/8         12 3/8         0.352         3520         2816	Size (in)         Welloofe Diameter (in)         Thickness (in)         Burst Pressure (psi)         Max. Internal Pressure (psi)         Centent Type           26         30         0.312         1000         18         Class A/L           13 3/8         17 1/2         0.380         2730         2184         Class A/L           9 5/8         12 3/8         0.352         3520         2816         Class A/L

## **PACKERS**

Kind:		
Sizes:	 	 
Depths Set:	_	 

WW-6B
(10/14)

47049025	1	2
OPERATOR WELL NO. 10H		
Well Pad Name: Raddiff		

[9]	) Describe	proposed	well w	/ork, i	including	the o	drilling	g and r	olugging	back	of a	ny p	ilot !	hol	e.
	,	PP		, -				, r							

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.

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

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

Conductor: Class A no additives

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

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

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

Anti-Settling/Suspension Agent

# 25) Proposed borehole conditioning procedures:

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

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.

Streton mental Protection

<sup>\*</sup>Note: Attach additional sheets as needed.

#### WEST VIRGINIA GEOLOGICAL PROGNOSIS

Radcliff GLO176 S-000118

**Drilling Objectives:** County:

Recommended Azimuth

Quad:

Elevation:

Marcellus Marion Glover Gap

1506 KB 149.5 Degrees 1493 GL

Recommended LP to TD: TBD

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR Base RR
Fresh Water Zone	1	906		FW @ 460,490,621,751.	1118 1118
Sewickley Coal	1200	1206 Co	al		
Pittsburgh Coal	1297	1304 Co	al	Not mined. TransEnergy reported depth at 1200' on 1H and 2	2H GL Elevation
Big Lime	2470	2543 Lis	mestone	SW @ ,1856,2127,2247	
Big Injun	2543	2671 Sa	ndstone		
Int. esg pt	2721				
Berea	2786	3361 Sa	ndstone	Not shown within Storage	
Gordon	3361	3523 Sil	ty Sand		
Bayard	3523	5964 Sil	ty Sand	Base of Offset Well Perforations at 5870' TVD	
Alexander	5964	6409 Sil	ty Sand		
Elks	6409	7350 Gr	ay Shales and Silts		
Sonyea	7350	7546 Gr	ay shale		
Middlesex	7546	7600 Sh	ale		
Genesee	7600	7699 Gr	ay shale interbedded		
Geneseo	7699	7739 BI	ack Shale		
Tully	7739	7769 Lin	mestone		
Hamilton	7769	7872 Gr	ay shale with some		
Marcellus	7872	7949 BI	ack Shale		
Purcell	7916	7918 Lin	mestone		
-Lateral Zone	7916			MRC2 Target	
Cherry Valley	7929	7931 Lis	mestone	2000 CO 700	
Onondaga	7949	Lin	mestone		

Target Thickness	78 feet	
Max Anticipated Rock Pressure	2593 PSI	

Comments:

Comments:

Office of Oil and requisitions recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the schess string, per WV requisitions. AUG 0 9 2023 regulations.

CSG DEPTH:

CSG DEPTH:

CSG DEPTH:

RECOMMENDED CASING POINTS

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

@ TD

Planned Depth GL.

1354 W Department of 50' Below Pittsburgs 50' Below Big Injun

50' Below Big Injun

RECEIVED

50' Below Pittsburgh

1118

**EQT Production** Wellbore Diagram Well: Radcliff 10H County: Marion Pad<sup>-</sup> State: Radcliff West Virginia Elevation: 1493' GL 1506' KB 4704902512 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 Office PECEIVED
OII and Gas Production 6", 24#, P-110, cement to 500' inside % 5/8" w/ Class A/H/L Formation: Marcellus 09/05/2026ALE



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)

RECEIVED

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

AUG 0 9 2023

Sincerely,

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

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

IN THE MATTER OF A VARIANCE FROM	)	ORDER NO. 2014 - 1	7
REGULATION 35 CSR § 4-11.4/11.5/14.1	)		
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE	)		
THE OPERATIONAL	)		
REGULATIONS OF CEMENTING OIL	)		
AND GAS WELLS	)		

#### REPORT OF THE OFFICE

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

#### FINDINGS OF FACT

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

Promoting a healthy environment.

Office RECEIVED

Office of Office and Gas

AUG 0 9 2023

WV Department of Environmental Protection

#### CONCLUSIONS OF LAW

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

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

#### ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

Office of Off and Gas

AUG 09 2023

WV Department of Environmental Protection



July 27, 2023

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

Re: Casing on Radcliff 10H

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.

RECEIVED
Office of Oil and Gas

AUG 0 9 2023

W Department of Environmental Protection



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

July 27, 2023

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

Re: Class L Cement Variance Request

Radcliff 10H 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.

Office of Oil and Gas

WV Department of Environmental Protection

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.



west virginia department of environmental protection

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	)	ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE	)	
35CSR8 SECTION 9.2.b.8.,	)	
RELATING TO THE CEMENTING	)	
OF OIL AND GAS WELLS	Ú	

REPORT OF THE OFFICE

RECEIVED
Office of Oil and Gas

AUG 0 9 2023

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

#### 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.
- 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.

Promoting a healthy environment

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

#### CONCLUSIONS OF LAW

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

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

#### ORDER

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

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

#### IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas Office AUG 0 9 2023

WV Department of Environmental Protection

## **EQT Production**

Hydraulic Fracturing Monitoring Plan

Pad ID: Radcliff

County: Marion

July 27, 2023

AUG 0 9 2023

W Department of Protection Environmental Protection

Page 1 of 2

#### **Purpose**

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

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

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

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

#### 1. Communications with Well Operators

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

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

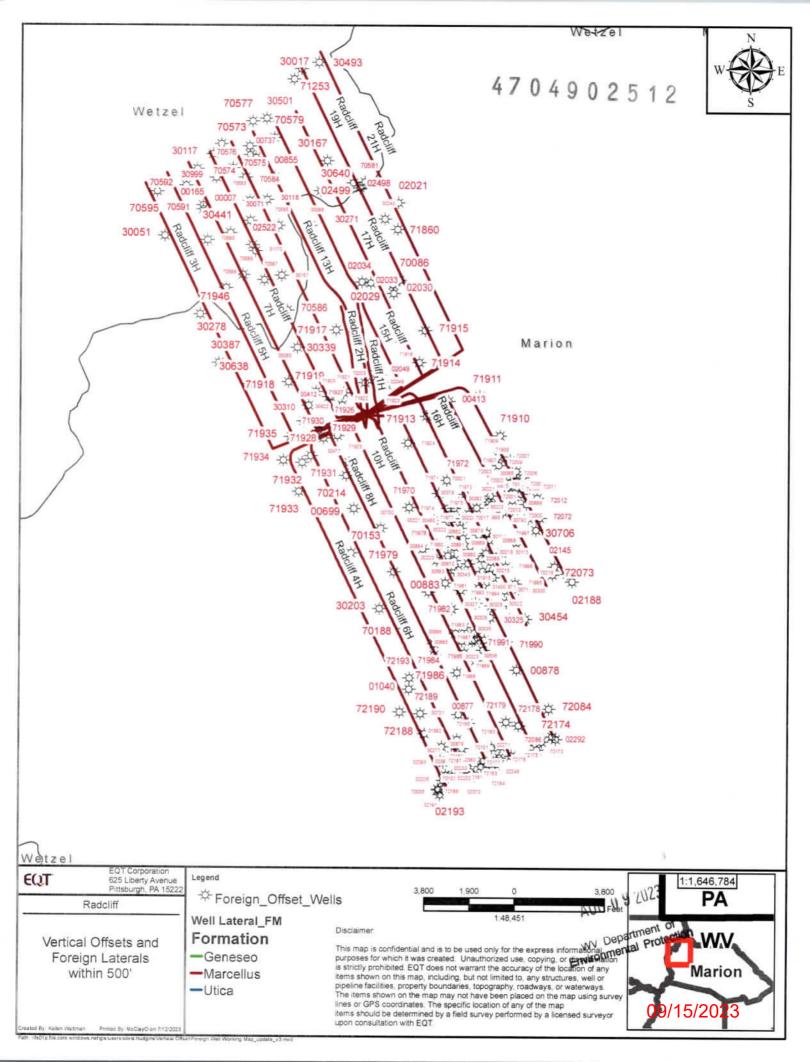
EQT will recommend to these operators at a minimum to:

- Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- Inspect or install master valves or other necessary equipment for wellhead integrity capable
  of a pressure recommended by EQT
- 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 the provided abnormalities.

WV Department of Environmental Protection Page 2 of 2



200 2531 No.	API 1001-14	111."\$erala									
1.771	47 649 70121 00 (x)	12/01	1201A 201A 110725-11449	Trownertyp Off	6-6-20pc  955			HVDeyal CRVIIesa I 1493-1695 (STIMBALL)			WellSymbol
12.20	47 4039 (7) (93, 93.00)	PA76.	986 1450 P	Charle spirit	79/81	# 7 T T	2011/15/160	1000 1000 1510001111 1000 1000 15100 111	00	4210.0 2 DD HIBEGS & WATER C.	OR COMPITATE
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/1921	47 049 7 197 1 00 40	(8/4)	PERMIT CARCILLO	Cally	UNCSAS COMPANY	49.60299 10	AD 13395 AD	1526.0806 ESTIMALIQUE	0.0 DD BAYSHIN, JAMIES II 136A	GAS PERMIT CANIFELL
00876	47 649 00876 (41 00	CUNSUL IDATION COAL COMPANY	UNRCPORTID	UNREPORTED		19,5985430		1740 7399 ISHMATED	DD DD LOMURRAY	UNIKLIPOHTED UNPEPORTED
2149	47 101-109493 00-00	PITTSBURT HA WY TAK		OTHER	COMMUNICATION COMPANY	10 hanzagu		1942 9850 ISTIMATED	2985 O - 2985 O MICHAEL, #UTRESS/259E	CHARTE A
02091	17 049 07093 GO Off	CONSCIENTION COAL COMPANY	iNo Tra completes PA A	GA5	NT DRUBOH & WA SW?	49.6286620		1572 5400 ESTIMATED	DO HOLLD SIMON HIGGINDIDINAN S	GAS-INACTIVE COMPILED
00227	47 049-00227-00-00	DIVERSIFIED ENVIRGA	PAA	DRYHOLE	CONSCRIBATION COAL CUMPANY	79 548 (090)		INTROMASO (\$1)MALED	2826.0 2826 IF MILITARY (EPHHEV) 1 5257	DAY HOLE P.S.A.
00884	47 049-00584-00-00	UNVERSIFIED ENFRGY	PAA	WATER OFMER	LAVERSHIP PRODUCTION	39 5 75 76 70		1217/0550 ESTIMATED	3077 U - 3077,8 MARIS, SARATTI 4	WATEH P.S. A.
20330	47 049-30350 00 00	SOLITH PLAN CILLS PENN MAT GAS)	MALINE COMPLETES		DIMERSIAN OF ROOMS THON SOUTH PERM ON IN SHINN NAT GAST	PP 1 /29670		1174 7450 ESIMANTED	2041 II - 4041 II HAVES, LL / G. HAVES 43	OTHER-PA A
705.84	47 10 3-70584-00 00	IM/A)	SINREPORTE()	UNRTRORIED		39 S6740 IO	-80 4157760	1143.9305 ESTIMAT(D	0.0 7913 0 M M KFN(Mt) 2	OIL INACTIVE COMPILATE
22177	47 049-72177-00-0u	(M/A)	UNPERCATED	UNREPORTED		48 612 1240	80 45600 10	MALE / 153 ESTRUATED	04 OC JBHORNER	DINNEY OR TECH UNITED PORTED
70703	474M9-70203-00-00	RP .	UNDER CONTENT		HOPE NATURAL LAST OMPANY	IO 5497450	80 41 79 740	T105 7820 ESTIMATED	O () II () F) HOLDEN	MARITMANI (FUNKLEGRIED
705.76	47 103 70576 00 00	(N/A)	UNRIPORTED	UNREPORTED		J9 592 <b>6</b> 030	<b>2</b> 23 4 (550654)	1148.4263 (STIMATED	OU OO IL MIJARAY	SPIREPORTED UNRSPORTED
71972	47-049-71972-00-00	(N/A)	INALPORTED	UNREPLIATED			80,4557510	1360 SANA TZIIMWLED	OD 1317 VIMON HEGGINROTHAM	UNRUNIRTED UNRUPORTED
/1997	47-049-/1997-00-00	(R/A)	UNREPORTED	MARCHARIE		39.5803640	40 4260780	1470.0000 ACTVAL	0.0 D.O D.MFFJ	UNREPORTED UNREPORT[12
7.2000	17-049-72000-00-00	(N/A)	UMREPORTED	INDE PUBLED		#9 5725 \$10		1,998 9123 ESTIMATED	0.0 W.2 HAYS	LINK   #ORIL D-UNREPORTED
/1917	47-049-71917-00-00	(N/4)				39.5761600	804158340	1266.6243 ESTIMATELY	D.C B.O ALS KENDALL	UNREPORTED-UNREPORTED
71992	47-049-71917-00-00 47-049-71997-00-00	IN/AI	LHMREPORT(O	UMME PORTED	[N/n]	39.595/660	80.4463210	1789 1545 ESTIMATED	0.0 U.U. E. O. MAKRAY	LINREPORTED-UNREPORTED
			UMMERGRED	UMME PORTED UMME PURIED	INVA INVA	39,595/660 39,5680 126	80.4463710 -80 4211573	1789 1545 ESTIMATED 0.0000	0.0 0.0 E O MARRAY 0.0 0.0 7 FRATSON 6	
71442 50157 71 <del>996</del>	47 049-71997-00-00 47-103-39157-00-00 47-049-71996-00-00	IN/AI	LHMREPORT(O	UMMEPORTER UMMEPURIED GAS	N/A]   N/A] PIT#SBURGH & WV GAS	39.595/660 39.5680176 39.6040570	80.4463210 -80.4211573 -80.4505890	1789 1545 ESTIMATED 0.0009 1199.6658 ESTEMATED	0 D U.U. & O MAMARAY D.D. 0.11 2 FRATYON & U.O. 3365-0 W FRANTH	UNREPORTED-UNREPORTED UNREPORTED (UNREPLIED GAS-COMPLETED
71442 50157 71996 71187	47-049-71997-00-00 47-103-39157-00-00 47-049-71946-00-00 47-049-72182-00-00	INVAL PITTSBURGH R WAY GAS	UMMERORICO UMMERORICO COMPLETED	UMME PORTED UMME PURIED	INVA) INVA) INVA) INVA)	39.595/660 39.5620126 39.6040520 19.5703550	80.4463710 -80.4211573 -80.4505890 -80.4172230	1789 1545 ESTIMATED 0.0000 1199.6698 ESTAMATED 1169.9388 (SAMMARED	0-D U.U. E.D. MANGRAY 0.D. 01 27 RATSON 6 U.0. 2805.0 WESSMITH 0.D. 04 WESSMITH 0.D. 04 WESSMITH	UNREPORTED UNREPORTED  UNREPORTED UNREPURT LIS  GAS-COMPLETED  UNREPORTES UNREPURTED
71992 50157 71996 71187 71994	47-049-73997-00-00 47-103-30357-00-00 47-049-73996-00-00 47-049-72382-00-00 47-049-73994-00-00	IMAA  PITTSBURGH R WOY GAS   IMAA    IMAA	UMMEPORTED COMPLÉTED UNREPORTED UNREPORTED	UMMEPORTED UMPEPORTED UNREPORTED UNREPORTED UNREPORTED	I N/A I N/A PITSBURGH & WY GAS  W/A   N/A	39.5957660 39.5680176 99.6040570 19.5703550 39.5468410	80.4463310 -80.4211573 -80.4505890 -80.4172230 -80.4235940	1789 1545 ESTIMATED 0,0000 1199,6898 ESTMATED 1169,9388 ESTMATED 1228,9447 ESTMATED	DD U.D. E. D. BANKERAY D.D. O.D. F. E. R. T. YOM B U.D. 5365-0 W.F. SWATH O.D. O.D. W.F. E. R. T. O.D. D. C. W.F. E. R. T. O.D. D. D. C. W.F. E. R. T. O.D. D. D. C. W.F. E. R. T. O.D. D. D. C. W.F. E. R. T. O.D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. D. C. W.F. E. R. T. O.D. D. D. D. D. T. O.D. D. D. D. D. T. O.D. D. D. D. D. D. T. O.D. D. D. D. D. D. T	LINREPORTED-UNREPORTED UNREPORTED HINEPURT LES GAS-COMPLETED UNREPORTES HINESPORTED UNREPORTES HINESPORTET
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# 4704902512

Member, Pennsylvania Association of Notaries

API Number 47 - \_\_\_\_ - Operator's Well No. Radcliff 10H

# 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 comp	
Will a pit be used? Yes No ✓	, , ,
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit	Number 0014, 8462, 4037
Reuse (at API Number Various  Off Site Disposal (Supply form WW	-9 for disposal location)
Other (Explain_	of disposal focation)
The closed loop system be used? It so, describe: then prepared to	
Drilling medium anticipated for this well (vertical and horizontal	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	nthetic Mud
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed of	offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be t	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 Ga West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, based	examined and am familiar with the information responsible for me, accurate, and complete. I am aware that there are significant ty of fine or imprisonment.  AUG 09 2023
// A	nly , 20 <u>73</u>
Keblcas	Notary Public Commonwealth of Pennsylvania - Notary Se
My commission expires March 9, 2024	Rebecca Shrum, Notary Public Beaver County
	My commission expires March 9, 2024 Community honked 1297706

#### WW-9 Attachment

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

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

#### Additives to be used in drilling medium?

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

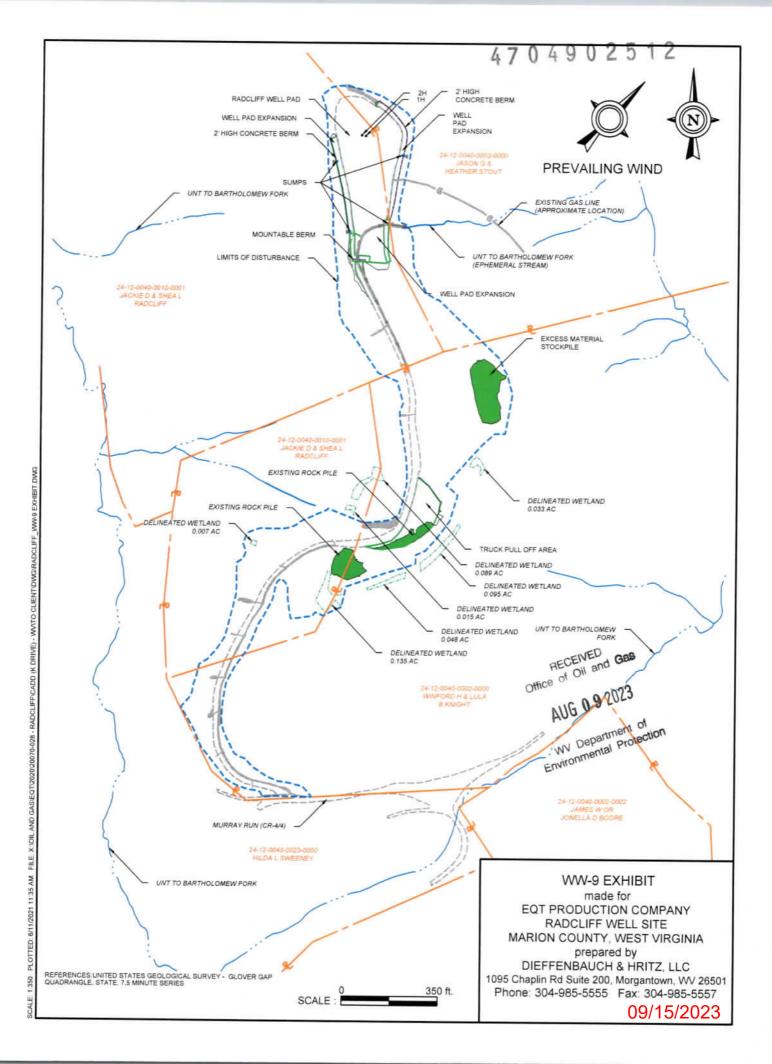
RECEIVED
Office of Oil and Gas

ESOS & 0 DUA

WV Department of Environmental Protection

Operator's Well No. Radcliff 10H

	ntment: Acres Disturbed	Prevegetation ph	I
Lime_3	Tons/acre or to correct to pH	6.5	
Fertilizer type Gr	anular 10-20-20		
Fertilizer amount	500lbs	/acre	
Mulch 2	Tons/a	cre	
	Seed	Mixtures	
T	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
rovided). If water from the creage, of the land applicat	it and proposed area for land applica pit will be land applied, include din ion area lved 7.5' topographic sheet.	ation (unless engineered plans includencesions (L x W x D) of the pit, and	ling this info have b dimensions (L x W
Maps(s) of road, location, pi rovided). If water from the creage, of the land applicat thotocopied section of invo	pit will be land applied, include din ion area lved 7.5' topographic sheet.	nensions (L x W x D) of the pit, and	dimensions (L x W
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Maps(s) of road, location, provided). If water from the creage, of the land applicate thotocopied section of involvent Approved by:  Comments:  Pre-seed per regulation. U	pit will be land applied, include din ion area lved 7.5' topographic sheet.	eas as soon as reasona	ably possible Manuali on a  AUG 0  Environment



<del></del>			Production Water Pl						<del></del>
Facility Name		Offsite Olsp	osals for Unconventi	onal Wells					
	Address	Address 2	City	State		Phone	County	State	D. L. D.
CWS Trucking Inc.	P.O. Box 391		Williamstown	- lw	26187	740-516-3586			Permit Number
			<del></del>	<del></del>	10107	740-320-3360	HODIE	ОН	3390
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740 515 5204	-	<del> </del>	
			44.471533	— <del>  VII</del>	43215	740-516-5381	Washingotn	OH	8462
LAD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	115301	724 250 2702	<del> </del>	<u> </u>	
		<del></del>	14031HINGTON	- PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014
Triad Energy	PO Box 430		Reno		45770	<del> </del>	<del> </del>	<del> </del>	
				ОН	45773	740-516-6021	Noble	ОН	4037
	<del></del>		<del></del>			740-374-2940	<u> </u>		
ri County Waste Water Management, Inc.	1487 Toms Run Road	<del>-                                    </del>	14-11.	<del></del>	<u> </u>	<u> </u>			
	- TO THE	<del></del>	Holbrook	PA _	15341	724-627-7178	Greene	PA	TC-1009
		_			<u> </u>	724-499-5647	<u> </u>		
ing Excavating Co. Advance Waste Services	101 River Park Drive	<del></del>	<del></del>						
<u> </u>	1404 WAGI L BIK DIIAG	<del></del>	New Castle	PA	16101		Lawrence	PA	PAR000029132
Vaste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive	<del></del> -	<del></del>						
Be well the control of the control o	Rt. 2, Box 68 Dawson Drive	<b>-</b>	Bridgeport	W∨	16330	304-326-6027	Harrison	wv	SWF-1032-98
<del>_</del>	<del></del>	<del> </del>						<del></del>	Approval #100785WV
Vaste Management - Northwestern Landfill					T -			<del>                                     </del>	-pproval #100785444
vasce monagement - Northwestern Landhii	512 E. Dry Road	_	Parkersburg	wv	26104	304-428-0602	Wood	wv —	SWF-1025 WV-010940
PEX Landfill	<u> </u>							<del>  '''                                 </del>	344-1023 WV-010940
EX CAUCILITY	11 County Road 78	PO 8ox 57	Amsterdam	ОН	43903	740-543-4389	lefferson	ОН	06 00100
day and the same a				<del></del>		1 10 10 13 1303	3011	<del>-</del>	06-08438
dvanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458	724-437-7336	Envotte		<del></del>
				+		724-437-7330	rayette	PA	100419
Vestmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724 030 7604		<del> </del>	
			Take Terribit	<del> '``</del>	13012	724-929-7694	Westmoreland	PA	100277
ustin Master Services	801 North 1st Street		Martins Ferry	он —	42025	740 500 000		<b>L</b>	
		<del>-  </del>	Wattins Ferry	UH	43935	740-609-3800	Belmont	ОН	2014-541
elmont Solids Control	77505 Cadiz-New Athers Road	<del>-</del>	Cadiz	<del></del>					
		<del></del>	Cabiz	ОН	43907	740-942-1739	<u>Harrison</u>	OH	2015-511
iversified Resources	3111 Braun Rd.	<del>-  </del>	- In-1-						
		<del></del>	Beipre	он	45714	740-401-0413	Washington	ОН	
	<del> </del>	<del>-  </del>	<del> </del>	+					
						740-610-1512			34-031-27177
uckeye Brine	23986 Airport Road		Coshocton	Юн	43812			он	34-031-27178
	23380 All por ( Noad	<del>_</del>	<u> </u>			724-591-4393	Coshocton		34-031-27241
entral Environmental Services	20222144								
and the second	28333 West Belpre Pike	<del></del>	Coolville	ОН	45723	304-488-0701	Athens	ОН	<del></del>
uverra - Nichols	1055514		<u></u>		T				·
	10555 Veto Road		Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
Iverra - Goff 2 2 0				7 7		· · ·			34-113-2-0//0
3 5 <del>2</del> 6 -	9350 East Pike Road		Norwich	ОН	43767	330-232-5041	Muskingum	OH	24 167 2 2002
iverra - Wolf 3 D 6					<del>-  </del>	3041	- makering and	<u> </u>	34-167-2-3862
iverra - Wolf	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041	rumbudi		<del></del>
iverra - Pander 6 9 gg [T]				1	····	/JU-E3E-3041	rampuli	<u>он</u>	34-155-2-1893
iverra - Pander ನ 🛎 😄 👊 🕅	5310 State Route 5		Newton Falls	ОН	44444	20 222 5044			<del>_</del>
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verra - AnnaRock (14 2 2 0	3549 Warner Road	<del>                                     </del>	Fowler	Он	+				
		<del></del>	· SWIEI	Jun j	14418	30-232-5041 T	rumbull	ОН	34-155-2-2403

				1	740-374-2940			
		Reno	он	45773	412-443-4397		ОН	
FQ Helen	199 Bowersock Road				740-236-2135	Washington		34-167-2-9577
			_	<del>                                     </del>			+	<del></del>
			ОН	45727	740-374-2940 412-443-4397		он	34-121-24037
•••	38505 Marietta Rd.	Dexter City	JOH	43/2/	740-236-2135	Noble	1011	34-121-24086
FQ Dexter	38303 Marretta Nu.							
					740-374-2940			
		Ellenboro	wv	26346	412-443-4397		wv	
FQ Ritchie	122 Lonesome Pine Rd				740-236-2135	Ritchie		47-085-09721
		Portland	ОН	45770	740-374-2940 412-443-4397		ОН	34-105-2-3619 34-105-2-3652 34-105-2-3637
FQ Mills	53610 TS Rd 706				740-236-2135	Meigs		34-105-2-3651
			_	+-	<del> </del>	<del> </del>	<u> </u>	
Petta Enterprises - OH	745 North 3rd Street	Cambridge	OH	43725	614-477-1368	Guernsey	ОН	Ohio Chiefs Order 25-019
read Enterprises - Ori				. [				
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	w	26059	740-255-5727	Ohio	wv_	
	1724 011 024	Marietta	OH	45750	304-629-0176	Washington	он	34-167-2-9766
Deep Rock Disposal	2341 OH-821	Martetta	1011	1-27,00	130-1 023-0270	1	17:	

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ALLS 09 2023



4704902512

# SITE SAFETY AND ENVIRONMENTAL PLAN

# Radcliff Well Site

Mannington Marion County, WV

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

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

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 8-Apr-21

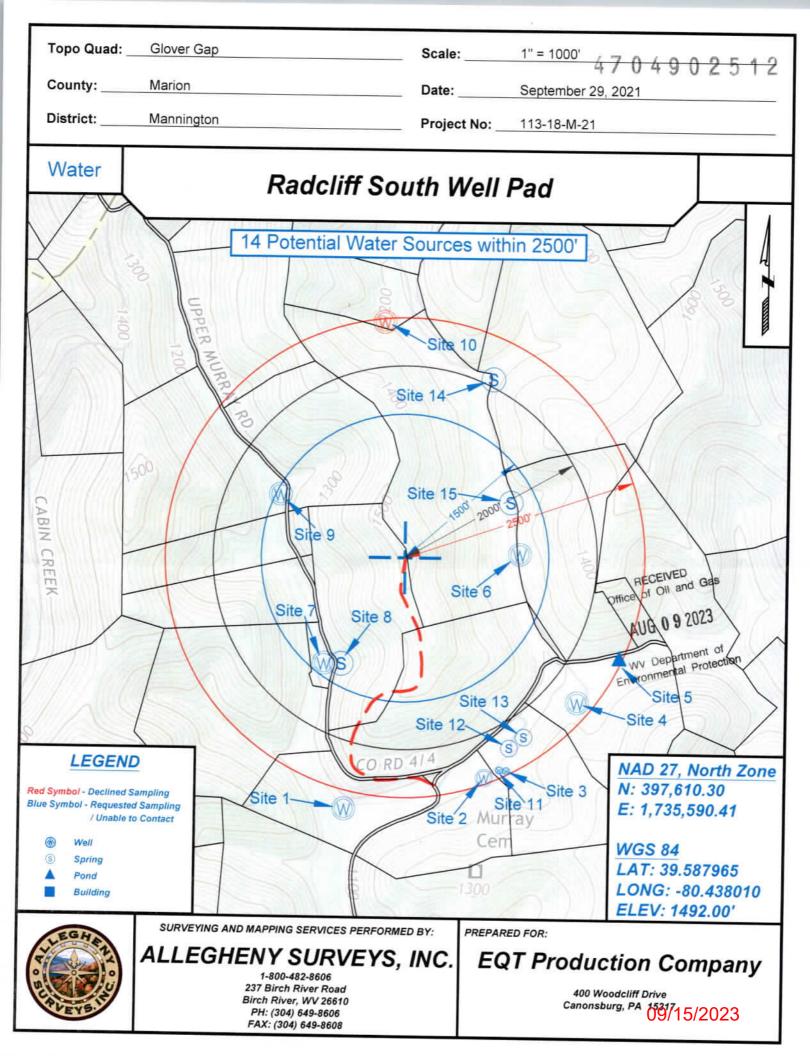
John Zavatchan

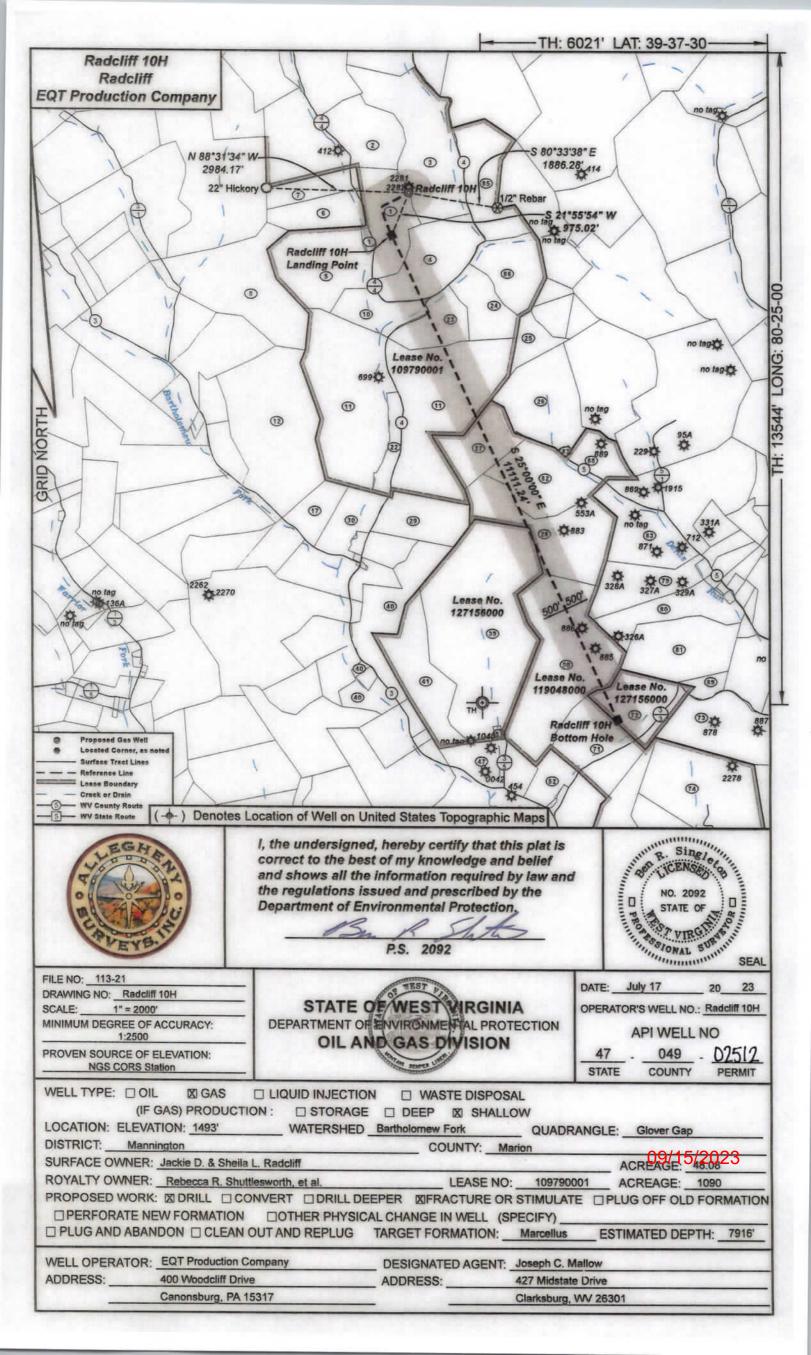
Project Specialist - Permitting **EQT Production Company** 

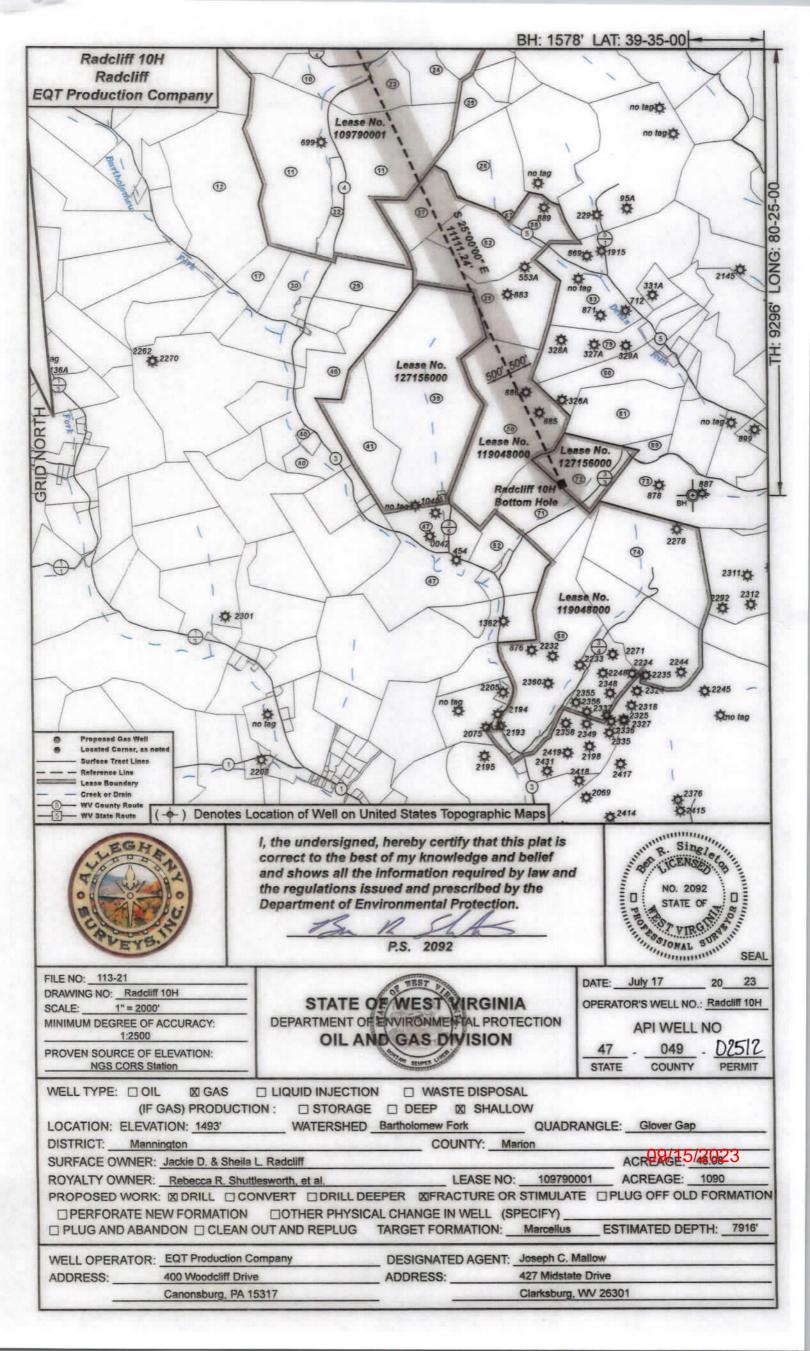
ohn F Zavatchan

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

Oil and Gas Inspector WVDEP Office of Oil and Gas

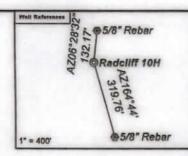






# Radcliff 10H Radcliff EQT Production Company

ract I.D. T	ax Map No.	Parcel No.	County District	Surface Tract Owner	Acres
1	40	10.1	Marion Mannington	tackie D. & Shelta L. Radcliff	48.00
2	40	10	Marion Mannington	Shelly L Nelson	43.03
1	40	3	Marion Mannington	Jason G. & Heather R. Stout	99.75
4	40	2	Marton Manmington	Iula B. Knight	56.32
5	40	11	Marion Mannington	Clarence W. Sweenay	63
	40	12	Marion Mannington	lackle D. & Shella L. Raddiff	27.35
7	40	13	Marion Mannington	Shelly L. Nelson	19.75
8	40	18	Marion Manningson	Nimrod Cole	92.12
10	40	23	Marion Mannington	Sara M. Pascoe, et al.	26.41
11	39	4	Marion Mannington	Coastal Forest Resources Company	245.722
12	40	22	Marion Mannington	James & Natalie Kerns	113.25
17	44	14	Marion Mannington	Charles D. & June Shaver	22.7
22	39	4.1	Marion Mannington	Thomas R. B. Joann McSorley	14.9
23	40	2.2	Marion Mannington	James W. Boone	29.52
24	40	2.1	Marion Mennington	Jason G. & Heather R. Stout	29.58
25	39	3	Marion Mannington	Thomas G. & Theresa A. Jones	20.25
26	39	5	Marion Mannington	Thomas G. & Thoresa A. Jones.	61.85
27	38	21.3	Marion Mannington	David Maffeld	37,292
28	38	21	Marion Mannington	Dennis G. & Louise M. Haves	74.885
29	38	1	Marion Mannington	Catey B. & Jennifer J. Allender	37.25
30	44	11	Marion Mannington	Charles D. & June Shaver	37.73
39	38	10	Marion Mannington	Thomas E. S. Andrea G. Ryan	176.15
40	38		Marion Mannington	John D. & Raji K. Carson	64.56
41	38		Mixton Mannington	Thomas E. & Andrea G. Ryan	62
47	44	1	Marion Mannington	Edna Marie Cain	107.5
50	38	11	Marion Mannington	Yulia Mikolaeva	115
51	38	10.1	Marion Mannington	Michael E. & Laura A. Gorbey	1.15
52	35	13.3	Marion Mannington	Christine I. Fragale, et al.	15.87
58	37	22	Marion Mannington	Jeffrey H. Michael	166.83
71	38	14	Marion: Mannington	Nancy M. Riggs	52
72	38	14.1	Marion Mannington	John A. Mayhue, Jr.	48
73	37	34	Marion Mannington	James D. Atkinson	112.5
74	37	23	Marion Mannington	Christine L. Fragale, et al.	95
79	38	29	Marion Mannington	Dorothy D. Hondershot	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. & Debora J. Mafield	54.660
83	38	20	Marion Mannington	Dennis G. & Louise M. Haves	59.24
85	25	15	Marion Mannington	Jason G. & Heather R. Stout	48.12
86	39	2	Marion Mannington	Lula II. Knight	43.39
87	39	6	Marion Mannington	Thomas G. & Theresa A. Jones	0.65
88	38	21.1	Marion Mannington	Ronald & Jean Haves	21.55
29	38	26	Marion Mannington	Michael & Julia A. Billie	7.65



Notes:

Radcliff 10H coordinates are

NAD 83 Lst 39,587819 Long: 80,438031

NAD 83 Lst 39,587819 Long: 80,438031

NAD 83 Lst 39,587819 Long: 80,438031

NAD 83 LTM N: 4,382,161.56 E: 548,256.82

Radcliff 10H Landing Point coordinates are

NAD 83 N: 396,690.28 E: 1,703,781.33

NAD 83 Lst 39,585325 Long: 80,439290

NAD 83 LTM N: 4,381,884.16 E: 548,150.47

Radcliff 10H Bottom Hole coordinates are

NAD 83 Lst 39,557813 Long: 80,432262

NAD 83 Lst 39,557813 Long: 80,422262

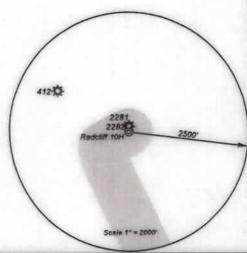
NAD 83 UTM N: 4,378,840.01 E: 549,532.32

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.

	UTM coordinates are NAD83, Zone 17, Meters. Radcliff
	Radcliff 18H (6)
	Radcliff 16H (6)
-	Radcilff 14H (©)
	Radcliff 12H 1
	Radcliff 10H ®
ı	Radcliff 8H ◎
	Radcliff 6H @
	Radcliff 4H (6)

Lease No.	Owner	Acres
109790001	Rebecca R. Shuttlesworth, et al.	1090
119048000	Lee and Hall Royalties, et al.	809
127156000	EQT Production Company, et al.	240
127156000	EQT Production Company, et al.	48.43125





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

P.S. 2092



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENT AL PROTECTION FILE NO: \_\_113-21 DATE: July 17 23 DRAWING NO: Radcliff 10H OPERATOR'S WELL NO .: Raddiff 10H SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY: API WELL NO OIL AND GAS DIVISION 1:2500 02512 049 47 PROVEN SOURCE OF ELEVATION: NGS CORS Station COUNTY PERMIT STATE ☐ WASTE DISPOSAL ☐ LIQUID INJECTION WELL TYPE: OIL XI GAS (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW QUADRANGLE: Glover Gap LOCATION: ELEVATION: 1493' WATERSHED Bartholomew Fork COUNTY: Marion DISTRICT: Mannington ACREAGE 5/2023 SURFACE OWNER: Jackie D. & Sheila L. Radcliff LEASE NO: 109790001 ACREAGE: 1090 ROYALTY OWNER: Rebecca R. Shuttlesworth, et al. PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION □ PERFORATE NEW FORMATION □ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7916' ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow 427 Midstate Drive 400 Woodcliff Drive ADDRESS: ADDRESS: Clarksburg, WV 26301 Canonsburg, PA 15317

WW-6A1 (5/13)

Operator's Well No.	Radcliff 10H
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## 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
			· <del></del>	

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

Office of Oil and Gas

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

Well Operator:	EQT Production Company John F Zavatchan	Q
By:	John Zavatchan	0
Its:	Project Specialist - Permitting	

Page 1 of 3

			'			_
Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page	<del>-</del>
	Police P. O. M			at least 1/8th per WV		
	Rebecca R. Shuttlesworth, et al.			Code 22-6-8"		
100790001	Rebecca R. Shuttlesworth, Power of Attorney for Rebert Lee Gwinn, Sr., Widower	****	American Shale Development, Inc.			
:45/30001		<b>1</b> 090 aç	Republic Energy Ventures, LLC		DB 1117/329	
	American Shale Development, Inc. Republic Partners VIII, LLC		Republic Partners VIII, LLC		AB 47/469	
	Republic Energy Ventures, LLC		EOT Braduation Company			
	American Shale Development, Inc.		EQT Production Company		AB 51/525	
	American Shale Development, Inc.		EQT Production Company		DB 1228/1	Confirmatory Deed
	Lee and Hall Royalties, et al.			"at least 1/8th per WV		
119048000		000	D. 1 010	Code 22-6-8*		
119040000	J.L. Hays and A.J. Hays	809 ac	Delmar Oil Company		DB 88/427	
	Delmar Oil Company		E. H. Jennings Bros. Company		DB 354/341	
	E. H. Jennings Bros. Company		Quaker State Oil Refining Corporation		DB 467/61 DB 754/403	
	Quaker State Oil Refining Corporation		B-C Oil and Gas Company, Inc.		AB 6/132	
			Clarence W. Mutschelknaus, Sr.			
			Clarence W. Mutschelknaus, Jr.			
	R.C.Oil and Can Commons, Inc.		Jacklyn A. Rominger			
	B-C Oil and Gas Company, Inc. Clarence W. Mutschelknaus, Sr.		William R. Johnson		AB 12/293	
	Clarence W. Mutschelknaus, Jr.					
	Jacktyn A. Rominger					
	William R. Johnson		Cobham Gas Industries, Inc.		AD 45/220	
	Cobham Gas Industries, Inc.		Prima Oil Company		AB 15/339	
	Prima Oil Company, et al.		, <i>•</i>		AB 27/258	
	Trans Energy, Inc.		Trans Energy, Inc.		AB 30/165	
	Prima Oil Company, Inc.		Republic Energy Ventures, LLC		AB 39/953	
	Trans Energy, Inc		Republic Energy Ventures, LEC			
	Prima Oil Company		-		AB 41/325	
	Trans Energy, Inc.		Trans Energy, Inc.		DB 1113/756	
	American Shale Development, Inc.		American Shale Development, Inc.		AB 43/420	
	Republic Partners VIII, LLC		Republic Partners VIII, LLC		AB 47/469	
	Republic Energy Ventures, LLC, et al.		EQT Production Company		ND 54/505	
	American Shale Developments Inc., et al.		EQT Production Company		AB 51/525	
	Amenda Several Para Service Par		EQT Floudcator Company		DB 1228/1	
	ou γ Ω σ teC			at least 1/8th per WV		
	EQT Production Company, eQuin			Code 22-6-8"		
	Republic Transpy Ventures, LLC					
127156000	Republic Pariners VIII LLC	240 ac	EQT Production Company		DB 1200/1	
	Production DCS					

127156090 EQT Production Company, et al.
Republic Energy Ventures, LLC
Republic Partners VIII, LLC

48,43125 ac EQT Production Company

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

BK 1200/1

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AND Department protection

4704902512



4704902512

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 10H Gas Well

Mannington District, Marion County, WV

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

ECEIVED Gas

AUG 0 9 2023

Department of mental Protection

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

Date of Notice Certification: 112712023			API No. 47-			
Date of Notice Certification.				Well No. 10H		
			Well Pad Name: Raddiff			
Notice has l	been given:					
	ne provisions in West Virginia Code	§ 22-6A, the Operator has pro	vided the red	quired parties v	with the Notice Forms listed	
	tract of land as follows:	,				
State:	West Virginia	LITM NAD 92	Easting:	548,256.818		
County:	Marion	UTM NAD 83	Northing:	4,382,161.564		
District:	Mannington	Public Road Acc	cess:	CR 4		
Quadrangle:	Glover Gap	Generally used f	farm name:	Jackie D. Raddiff	and Sheila L. Raddiff	
Watershed:	Bartholomew Fork					
information r of giving the requirements Virginia Code	ed the owners of the surface descril equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applican	ection sixteen of this article; ( arvey pursuant to subsection f this article were waived in ender proof of and certify to	ii) that the re (a), section writing by	quirement was ten of this arti- the surface ov	deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		this Notice C	ertification	OOG OFFICE USE	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUI			RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	/EY or 🔳 NO PLAT SURV	EY WAS C	ONDUCTED	☐ RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUINOTICE OF ENTRY FOR WAS CONDUCTED or			RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER (PLEASE ATTACH		CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED	
■ 5. PUE	BLIC NOTICE			ECEIVED	RECEIVED	
■ 6. NO	TICE OF APPLICATION		Al	IG 0 9 2023	RECEIVED	

Required Attachments:

Jepartmer 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.

### 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.

Address:

Facsimile:

Email:

Well Operator: EQT Production Company

By: John Zavatchan

Its: Project Specialist - Permitting

Telephone: 724-746-9073

Subscribed and sworn before me this 27th day of July 7023

400 Woodcliff Drive

jzavatchan@eqt.com

412-395-2974

Canonsburg, PA 15317

My Commission Expires March 9,2024

NOTARY SEAL

Commonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public Beaver County My commission expires March 9, 2024

Commission number 1267706 Member, Pennsylvania Association of Netaries

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

> > AUG 0 9 2023

WW-6A (9-13) 4704902512
API NO. 47-\_\_\_\_\_OPERATOR WELL NO. 10H
Well Pad Name: Redcliff

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

Notice Time Requirement: notice	ce shall be provided no later th	an the filing date of permit	application.
Date of Notice: 7127   2023 Date   Notice of:	Permit Application Filed: 😒	8/2073	
PERMIT FOR ANY WELL WORK	CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR F	TIT
Delivery method pursuant to W	est Virginia Code § 22-6A-1	0(b)	
		HOD OF DELIVERY THAT EIPT OR SIGNATURE CON	
registered mail or by any method of sediment control plan required by sediment control plan required by sethe surface of the tract on which the oil and gas leasehold being develop described in the erosion and sedime operator or lessee, in the event the temore coal seams; (4) The owners of well work, if the surface tract is to limpoundment or pit as described in have a water well, spring or water seprovide water for consumption by he proposed well work activity is to tall subsection (b) of this section hold is records of the sheriff required to be provision of this article to the control.	f delivery that requires a receipt section seven of this article, and e well is or is proposed to be located by the proposed well work, and the tent control plan submitted pursuit tract of land on which the well proposed freed of the surface tract or to be used for the placement, consideration of this article; (5) supply source located within one humans or domestic animals; and the place. (c)(1) If more than the interests in the lands, the applicate maintained pursuant to section farry, notice to a lien holder is no part, that the operator shall also part, that the operator shall also parts.	or signature confirmation, cop the well plat to each of the foll cated; (2) The owners of record if the surface tract is to be used ant to subsection (c), section so proposed to be drilled is located racts overlying the oil and gas latruction, enlargement, alteration Any surface owner or water put the thousand five hundred feet of d (6) The operator of any naturate tenants in common or other and the thousand five hundred feet of the total common or other and the thousand five hundred feet of the total common or other and the thousand five hundred feet of the total common or other and the total common or other the total common or other	all deliver, by personal service or by ies of the application, the erosion and lowing persons: (1) The owners of record of of the surface tract or tracts overlying the for roads or other land disturbance as even of this article; (3) The coal owner, if [sic] is known to be underlain by one or leasehold being developed by the proposed in, repair, removal or abandonment of any irveyor who is known to the applicant to of the center of the well pad which is used to ral gas storage field within which the co-owners of interests described in quired upon the person described in the en-a of this code. (2) Notwithstanding any the lien holder is the landowner. W. Va. an ("WSSP") to the surface owner and any his rule.
☐ Application Notice ☐ WSSF	Notice E&S Plan Notice	e ☑ Well Plat Notice is he	reby provided to:
SURFACE OWNER(s)		COAL OWNER OR LES	SSEE RECEIVED
Name: See Attached List Address:		Name: See Attached List Address:	of Oll and Gas
Name:Address:		□ COAL OPERATOR	AUG 092073
SURFACE OWNER(s) (Road a		Name:Address:	WV Departme
Name: See Attached List Address:		SURFACE OWNER OF AND/OR WATER PURVI	WATER WELL
Name:		Address:	
Address:			
SURFACE OWNER(s) (Impou	3777	Name:	NATURAL GAS STORAGE FIELD
Name: NA Address:		*Please attach additional fo	
		i lease attach additional ic	nins it necessary

WW-6A (8-13)

4704902512 OPERATOR WELL NO. 10H Well Pad Name: Radcliff

### 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.

RECEIVED Additional information related to horizontal drilling may be obtained from the Secretar of a the W Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

AUG 0 9 2023

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred in the second programment of the programment of 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

APINO. 45.7 0 4 9 0 2 5 1 2 OPERATOR WELL NO. 10H Well Pad Name: Radcliff

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.

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (a), section ien of this article may file written comments with the secretary as to the location or construction of the application proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 136320(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary

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

W Department of Environmental Protection

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

WW-6A (8-13) API NO. 47- 4 9 0 2 5 1 2

OPERATOR WELL NO. 10H

Well Pad Name: Radcliff

### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

### Comment Requirements

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

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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) API NO. 47-0 4 9 0 2 5 1 2
OPERATOR WELL NO. 10H
Well Pad Name: Radcliff

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 724-746-9073 Email: |zavatchan@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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 21th day of July, 2023

Notary Public

My Commission Expires March 9, 2021

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WV Departme Environmental Procession 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 É Fairmont, WV 26554

Rebecca Shuttlesworth √ 468 Katy Road Fairmont, WV 26554

Cathie L. Ebert 506 Katy Road Fairmont, WV 26554

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

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

Cynthia Ann 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 Office of Oil and Case

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WV Department of the Convertion
Environmental Protection

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

Sandra F. Hulsey
PO Box 238
Worthington, WV 26591

Sharon D. Wright 209 Jefferson Street Mannington, WV 26582

William Williamson 21811 Aquasco Road Aquasco, MD 20608

### Water Supply Owners within 1,500':

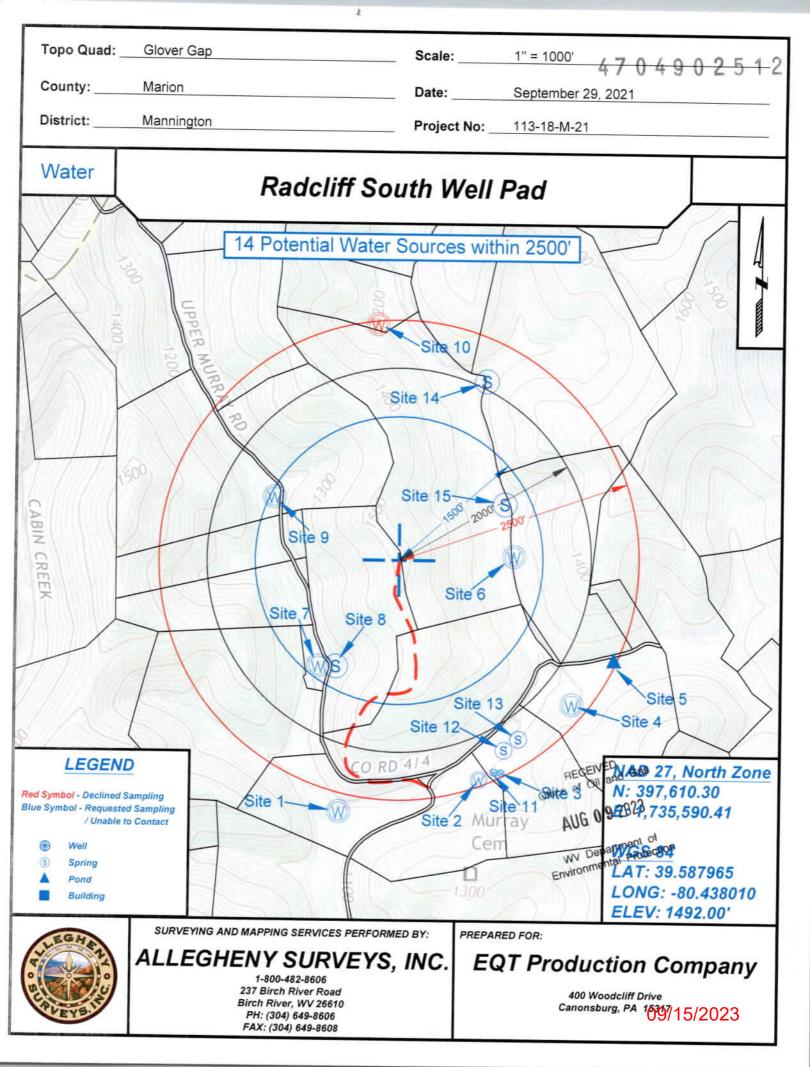
Jason and Michelle Stout 637 Upper Murray Rd. Mannington WV 26582

Jackie D. 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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Office of Oil and Gas

AUG 09 2023





(Insert additional pages as needed)

### Table 1 - Water Source Identification

EQT Well Pad Name: Radcliff South EQT Well Number:	Submittal Date: 7/14/2023	
Survey / Engineering Company: Allegheny Surveys, Inc	c.	
Site Number: 1 Distance from Gas Well (feet): 2690.72		
Surface Owner / Occupant: Richard Beaty (formerly Swind Address: 481 Upper Murray Rd. Mannington WV 2658).  Field Located Date: 9/27/2018 Owner home during surface Coordinates: 39.345062, -80.262371 (decimal degrees –	2 Phone #: 304-986-2878 vey (yes/no): Yes	□ Landowner Requested     Sampling     □ Landowner Decline     Sampling     □ Unable to Contact     (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/29/2021 D Comments: Water well located behind mobile home no		man.
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 Field Located Date: 9/27/2018 Owner home during sun Coordinates: 39.345410, -80.260514 (decimal degrees –	vey (yes/no): Yes	Sampling  Landowner Decline Sampling  Unable to Contact (Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Do	or Hanger Left:	pre-drill sampling lab)
Comments: Water well located on NE side of house. Ve	-5.2	
Site Number: 3 Distance from Gas Well (feet): 2485.91		
Surface Owner / Occupant: Heather Stout		□ Landowner Requested
Address: 546 Upper Murray Rd. Mannington WV 26582	Phone #: 304-986-1577	Sampling  Landowner Decline
Field Located Date: 9/27/2018 Owner home during surv	rey (yes/no): No	Sampling  Dischief to Contact  (Furner contact attempts to be
Coordinates: 39.345487, -80.260221 (decimal degrees - 1	NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Doc	or Hanger Left: <b>Yes</b>	FINA A P FOFO

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

Site Number: 4 Distance from Gas Well (feet): 2376.91	
Surface Owner / Occupant: Winford Knight	□ Landowner Requested
Address: 638 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1807	Sampling  □ Landowner Decline
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes	Sampling  Unable to Contact
Coordinates: 39.350209, -80.255303 (decimal degrees - NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left:	
Comments: Water well located beside aluminum wheelchair ramp. Unable to see water well. N	lice elderly couple.
Site Number: 5 Distance from Gas Well (feet): 2461.76	
Surface Owner / Occupant: Winford Knight	□ Landowner Requested
Address: 638 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1807	Sampling  Landowner Decline
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes	Sampling
Coordinates: 39.350687, -80.254806 (decimal degrees – NAD 83)	Unable to Contact (Further contact attempts to be made by EQT's third party
	pre-drill sampling lab)
Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left:  Comments: Pond located.	
——————————————————————————————————————	
Site Number: 6 Distance from Gas Well (feet): 1231.83	
Surface Owner / Occupant: Jason and Michelle Stout	■ Landowner Requested
Address: 637 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1087	Sampling  □ Landowner Decline
Field Located Date: 10/08/2018 Owner home during survey (yes/no): Yes	Sampling  Unable to Contact
Coordinates: 39.351716, -80.260111 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left: Yes	pre-drill sampling lab)
•	
Comments: Spoke to Michelle. Said she would ask and be in touch. Located water well	on 10/08/2018.
Site Number: 7 Distance from Gas Well (feet): 1367.33	
Surface Owner / Occupant: Jackie Radcliff	
Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968	Sampling ☐ Landowner Decline
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes	Sampling
Coordinates: 39.351716, -80.260111 (decimal degrees - NAD 83)	Unable to Contact (Plane to thing aways to be
Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left; Yes	AUG 0 9 2023
	AUU V V LULY

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

Site Number: 8 Distance from Gas Well (feet): 1318.14	
Surface Owner / Occupant: Jackie Radcliff	□ Landowner Requested
Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968	Sampling   Landowner Decline
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes	Sampling  Unable to Contact
Coordinates: 39.350548, -80.262547 (decimal degrees - NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left:	pre-drill sampling lab)
Comments: Spring located next to road coming off hill.	
Site Number: 9 Distance from Gas Well (feet): 1416.84	
Surface Owner / Occupant: Shelly Nelson (Formerly Sandor Frecska)	☑ Landowner Requested
Address: 325 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-1807	Sampling   Landowner Decline
Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes	Sampling  Unable to Contact
Coordinates: <b>39.350687, -80.254806</b> (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left:	pre-drill sampling lab)
Comments: Water well located next to driveway beside garage.	
Site Number: 10 Distance from Gas Well (feet): 2429	
Surface Owner / Occupant: EBX-EM LLC	☐ Landowner Requested
Address: 6575 W Loop S Ste 300, Bellaire TX 77401 Phone #:	Sampling ☐ Landowner Decline
Field Located Date: Owner home during survey (yes/no):	Sampling ☐ Unable to Contact
Coordinates: <b>39.354067, -80.261879</b> (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1 <sup>st</sup> : 2 <sup>nd</sup> : Door Hanger Left:	pre-drill sampling (ab)
Comments: <b>Property behind gate. Has water well.</b> Formerly Henry Deem - called on ne had sold property. Signature page received 10/11/2021 declining sampling. Propert EBX-EM LLC on 9/15/2021 (DB 1289/894).	10/4/2021 & said y was granted to
Site Number: 11 Distance from Gas Well (feet): 2448.09	
Surface Owner / Occupant: Heather Stout	■ Landowner Requested
Address: 546 Upper Murray Rd. Mannington WV 26582 Phone #: 304-986-1577	Sampling  Landowner Decline
Field Located Date: 10/15/2018 Owner home during survey (yes/no): No	Sampling Unable to Contact
Coordinates: <b>39.345492, -80.260315</b> (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st; 9/26/2018 2nd; 9/30/2021 Door Hanger Left; Yes	
Comments: Stout's second water well located at end of house.	4

AUG U & LULD

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

4704902512

# 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.

Date of Noti	Requirement: Notice shall l ce: 04/27/2023	Date Permit Application Filed: \$\  \$\  \  \  \  \  \  \  \  \  \  \  \  \  \	
Delivery me	thod pursuant to West Virg	inia Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED	MAIL	
DELIVI		ECEIPT REQUESTED	
receipt reque drilling a hor of this subsec- subsection mand if availab	sted or hand delivery, give the izontal well: <i>Provided</i> . That stion as of the date the notice ay be waived in writing by the le, facsimile number and electrical street.	It least ten days prior to filing a permit application e surface owner notice of its intent to enter upon to notice given pursuant to subsection (a), section to was provided to the surface owner: <i>Provided, how</i> e surface owner. The notice, if required, shall incommon mail address of the operator and the operator	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number.
Notice is he Name: See Atta	reby provided to the SUI		
Address:	orno cist	Name: See Attached List Address:	
State: County:	West Virginia Marion	drilling a horizontal well on the tract of land as for UTM NAD 83  Easting: Northing:	548256.818 4382161 564
District: Quadrangle: Watershed:	Mannington Glover Gap Bartholomew Fork	Public Road Access: Generally used farm name:	CR 4/4 RECEIVED GRAS
District: Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nurrelated to hor	Shall Include: West Virginia Code § 22-64 nber and electronic mail additional drilling may be obtain		Jackie D. Badelliff and Sheila L. Radcliff  Jackie D. Badelliff and Sheila L. Radcliff  AUG 0 9 2023  ress, telephoneparting of available, ed representational information of Environmental Protection headquarters.
District: Quadrangle: Watershed:  This Notice Pursuant to Pacsimile nur related to hor ocated at 601	Shall Include: West Virginia Code § 22-64 mber and electronic mail additional drilling may be obtain 57th Street, SE, Charleston,	Generally used farm name:  A-16(b), this notice shall include the name, additional from the operator and the operator's authorized and from the Secretary, at the WV Department of	Jackie D. Badelliff and Sheila L. Radcliff  Jackie D. Badelliff and Sheila L. Radcliff  AUG 0 9 2023  ress, telephoneparting of available, ed representational information of Environmental Protection headquarters.
District: Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nur elated to hor ocated at 601  Notice is he	Shall Include: West Virginia Code § 22-64 ber and electronic mail addizontal drilling may be obtain 57th Street, SE, Charleston, reby given by:	Generally used farm name:  A-16(b), this notice shall include the name, address of the operator and the operator's authorize ned from the Secretary, at the WV Department of WV 25304 (304-926-0450) or by visiting www.de	Jackie D. Badelliff and Sheila L. Radeliff  Jackie D. Badelliff and Sheila L. Radeliff  AUG 0 9 2023  ress, telephonephilippedind if available, ed representational Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nurselated to horocated at 601  Notice is he Well Operato	Shall Include: West Virginia Code § 22-64 mber and electronic mail additional drilling may be obtain 57th Street, SE, Charleston,	Generally used farm name:  A-16(b), this notice shall include the name, additional from the operator and the operator's authorized and from the Secretary, at the WV Department of	Jackie D. Badellff and Sheila L. Radcliff  Jackie D. Badellff and Sheila L. Radcliff  Office Street Control of Street Control of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nur related to hor ocated at 601  Notice is he	Shall Include: West Virginia Code § 22-64 ber and electronic mail addizontal drilling may be obtain 57th Street, SE, Charleston,  reby given by:  EQT Production Company 400 Woodcliff Drive	Generally used farm name:  A-16(b), this notice shall include the name, additional and the operator's authorized from the Secretary, at the WV Department of WV 25304 (304-926-0450) or by visiting www.de	Jackie D. Radelliff and Sheila L. Radeliff  Jackie D. Radelliff and Sheila L. Radeliff  Personal Control of State of Sta
District: Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nurselated to horocated at 601  Notice is he Well Operato	Shall Include:  Shall Include: West Virginia Code § 22-64 nber and electronic mail additional drilling may be obtain 57th Street, SE, Charleston, reby given by: r: EQT Production Company	Generally used farm name:  A-16(b), this notice shall include the name, additional and the operator's authorized from the Secretary, at the WV Department of WV 25304 (304-926-0450) or by visiting www.de	Jackie D. Badellff and Sheila L. Radcliff  Jackie D. Badellff and Sheila L. Radcliff  Office Street Control of Street Control of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nur elated to hor ocated at 601  Notice is he Well Operato Address:	Shall Include: West Virginia Code § 22-64 ber and electronic mail addizontal drilling may be obtain 57th Street, SE, Charleston,  reby given by:  EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317	Generally used farm name:  A-16(b), this notice shall include the name, additional additional the operator and the operator's authorized from the Secretary, at the WV Department of WV 25304 (304-926-0450) or by visiting www.de  Authorized Representative: Address:	Jackie D. Badelliff and Sheila L. Radcliff  Jackie D. Badelliff and Sheila L. Radcliff  Press, telephonephilin program of available, ed representant de Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  John Zavatchan  400 Woodcliff Drive  Canonsburg, PA 15317

### 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 <a href="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

### **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 0 9 2023

# STATE OF WEST VIRGINIA 47 0 4 9 0 2 5 1 2 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Date of Notice	Requirement: notice shall be provided no lece: 7/27/2023 Date Permit App	ater than the filing lication Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia Code § 22-	-6A-16(c)		
■ CERTI	FIED MAIL	IAND		
RETUI		DELIVERY		
the planned of required to be drilling of a damages to th	W. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface operation. The notice required by this subsettion (b), section ten of the horizontal well; and (3) A proposed surface as surface affected by oil and gas operations the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by the surf	e owner whose lan section shall inclu- his article to a sur- te use and compen- to the extent the d	d will be used for ide: (1) A copy face owner whose sation agreement amages are com	or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.
Notice is her	eby provided to the SURFACE OWNER(s	s)		
(at the address Name: See Attac	s listed in the records of the sheriff at the tim	The state of the s		
Address:	or the second	Name:	e.	
		Addies		
operation on State: County:	/est Virginia Code § 22-6A-16(c), notice is h the surface owner's land for the purpose of d West Virginia	drilling a horizonta	al well on the tra	ct of land as follows: 548,256.818
District:	Mannington	Public Road	Access:	CR 4/4
Quadrangle:	Giover Gap	Generally us	ed farm name:	Jackie D. Raddliff and Sheila L. Raddliff
Watershed:	Bartholomew Fork			
to be provide horizontal we surface affects information re	Vest Virginia Code § 22-6A-16(c), this notice of by W. Va. Code § 22-6A-10(b) to a surful; and (3) A proposed surface use and comped by oil and gas operations to the extent the lated to horizontal drilling may be obtaine located at 601 57th Street, SE, Charlesto	face owner whose pensation agreement the damages are conditionally defrom the Secret	e land will be u nt containing an ompensable und tary, at the WV	ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Well Operator	EQT Production Company	Address:	400 Woodcliff Drive	
Telephone:	724-746-9073		Canonsburg, PA 153	317
Email:	jzavatchan@eqt.com	Facsimile:	412-395-2974	
	Privacy Notice: Oil and Gas processes your personal information	ation, such as nam	e, address and to	elephone number, as part of our regulatory

duties. Your personal information may be disclosed to other State agencies or third parties in the negotial course of business or as

needed to comply with statutory or regulatory requirements, including Freedom of Information aco 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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Lula B. Knight 638 Upper Murray Rd. Mannington, WV 26582

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

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Office of Oil and Gas
AUG 0 9 2023

W Department of Environmental Protection

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### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways** 

Gregory L. Bailey, P.E. Interim State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Radcliff Pad, Marion County Radcliff 10H 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

Dary K. Clayton

Cc: Becky Shrum

EQT Production CH, OM, D-4

File

\_Jb 0 9 2023

partment of rental Protection

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### Anticipated Frac Additives **Chemical Names and CAS Numbers**

<u>Material</u>	Ingredient	CAS Number
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCI)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	Proprietary
	Petroleum Distillate	64742-47-8
	Oleic Acid Diethanolamide	93-83-4
	Alcohols, C12-16, ethoxylated	68551-12-2
	Ammonium chloride ((NH4)CI)	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

MP " 9 5053 WV Department of Environmental Protection

## SITE AS-BUILT RADCLIFF WELL SITE MARION COUNTY, WEST VIRGINIA **EQT PRODUCTION COMPANY**



GLOVER GAP QUADRANGLE, WV

LOCATION MAP

Manual Fine

SHEET INDEX

COVER SHEET

SITE CONTROL WITH AERIAL AND SHEET LAYOUT

3 - 5 ENLARGED PLAN VIEW

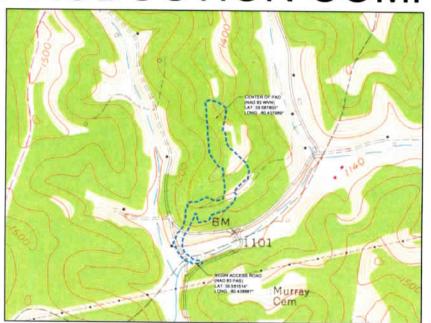
ACCESS ROAD PROFILE

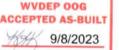
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PROJECT # 21119-018 JULY 2023

DIEFFENBAUCH & HRITZ, LLC

# SITE AS-BUILT RADCLIFF WELL SITE MARION COUNTY, WEST VIRGINIA EQT PRODUCTION COMPANY





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

LOCATION MAP



### SHEET INDEX

- 1 COVER SHEET
- 2 SITE CONTROL WITH AERIAL AND SHEET LAYOUT
- 3-5 ENLARGED PLAN VIEW
- 6 ACCESS ROAD PROFILE

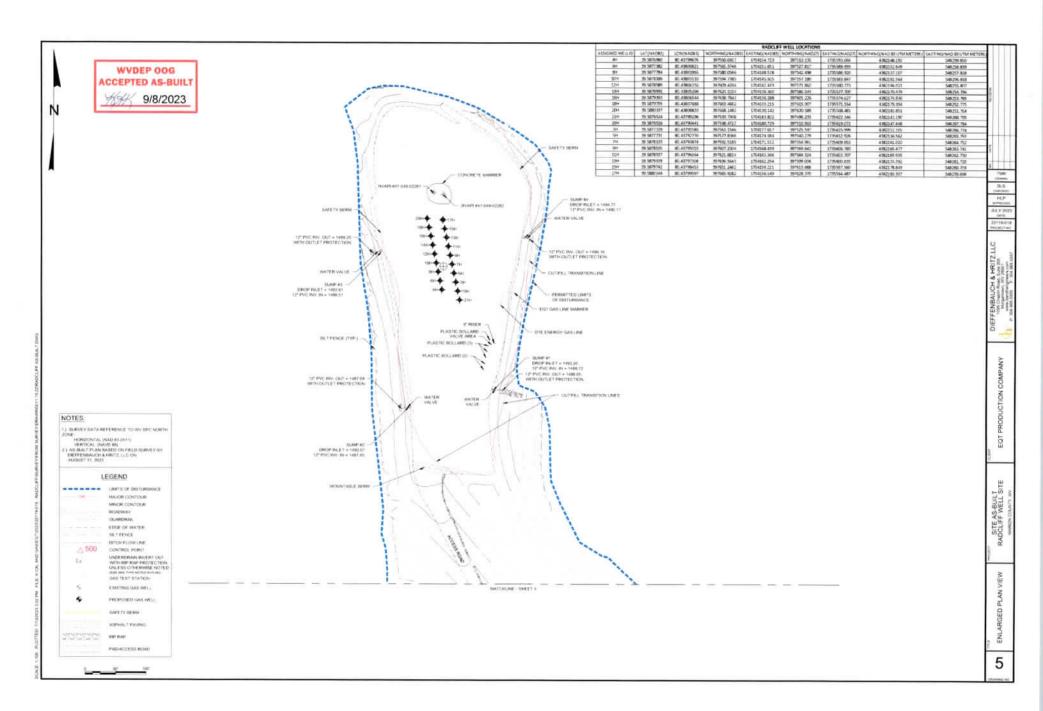
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	348258.839	4382152.649	17903-901	397527.817	1754151.851	397563-3746	80.43800621	28.5477382	- 6H
	548257.828	4362157.102	1795586.920	397342.498	1704148.578	3975/80 (THE	80.43821965	39.3477794	86
	508254.818	4382361 564	3795583 M47	907587.180	1704145.505	397594-7581	RG 43803110	39 5878386	1000
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	548263.741	4382165.477	1775606,790	397509.642	1704168.489	397607.2004	BCL43799019	39-56/8530	911
	548362.730	4882369 935	1735868, 202	397584 321	1704165-366	397621.8824	80.41796.164	39.5678927	220
1	346261.720	4382174.392	1739600 633	397599.006	1704162-294	.997EBE 5643	80.41797306	39.5679339	13H
	548260,706	4902176.949	1795597.960	397613.680	1704159.221	397651.2462	80.41796453	39.5879342	15H
MANAGE NO.	200000000000000000000000000000000000000	490183 307	3795594 487	397628.370	1704256.149	397665.9292	EG-43798987	39.5680144	17H

PROJECT # 21119-018 JULY 2023

DIEFFENBAUCH & HRITZ, LLC

BOALE NA PLOTTED 7132023 408 PM.E.XION, AND GARGOTUDZZZTIP-018

4704902512



OPERATOR: EQT Production Company	WELL NO: 10H
PAD NAME: Radcliff	
REVIEWED BY: John Zavatchan	SIGNATURE:

### WELL RESTRICTIONS CHECKLIST

### HORIZONTAL 6A WELL

Well Restri	ctions
$\checkmark$	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
$\checkmark$	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	Surface Owner Waiver and Recorded with County Clerk, OR  DEP Variance and Permit Conditions  DEP Variance and Permit Conditions
$\checkmark$	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
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions