

west virginia department of environmental protection

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

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

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

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for RADCLIFF 14H 47-049-02513-00-00

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: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 9/11/2023 RADCLIFF 14H Jackie D & Sheila L Radcliff 47-049-02513-00-00

Promoting a healthy environment.

API Number:

PERMIT CONDITIONS 4704902513

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

CONDITIONS

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

API NO. 47-____-

OPERATOR WELL NO. <u>14H</u> Well Pad Name: <u>Radciff</u>

4704902513

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

1) Well Operator: EQT Pro	oduction Company	306686	Marion	Mannington	Glover Gap
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	14H	Well Pad	Name: Radcli	ff	
3) Farm Name/Surface Own	er: Jackie D. & Sheila L. F	Radcliff Public Road	d Access: CR	4/4	
4) Elevation, current ground	1,493' (built) Ele	evation, proposed p	oost-constructio	on: 1,493'	
5) Well Type (a) Gas \sum	COil	Unde	rground Storag	e	
Other	<u></u>				
(b)If Gas	Shallow X	Deep			
	Horizontal X				
6) Existing Pad: Yes or No	Yes				
7) Proposed Target Formatio Marcellus, 7,916', 78', 2,59		pated Thickness ar	nd Expected Pro	essure(s):	
8) Proposed Total Vertical D	epth: 7,916'				
9) Formation at Total Vertica	al Depth: Marcellus				
10) Proposed Total Measured	d Depth: 11,455'				
11) Proposed Horizontal Leg	Length: 2,967'				
12) Approximate Fresh Wate	r Strata Depths:	460', 490', 621', 7	'51'		
13) Method to Determine Fre	sh Water Depths: 0	ffset Wells - 049-021	84, 049-00699, (049-00168, 0	049-30339, 049-30238
14) Approximate Saltwater E	epths: 1,856', 2,127	', 2,247'			
15) Approximate Coal Seam	Depths: 1,200'-1,20	6', 1,297'-1,304'			
16) Approximate Depth to Po	ossible Void (coal mir	ne, karst, other): <u>N</u>	I/A		
17) Does Proposed well local directly overlying or adjacent		15 Yes	No	x	
(a) If Yes, provide Mine Inf	fo: Name:				
	Depth:			RECEIV	
	Seam:		(Office of Oil a	and Gas
	Owner:			AUG 0 9	2023
			Env	WV Departme vironmental P	ent of Totection

Page 1 of 3 09/15/2023

API NO. 47-____

OPERATOR WELL NO. 14H

Well Pad Name: Reddiff

18)

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CASING AND TUBING PROGRAM

4704902513

TYPE	<u>Size</u> (in)	<u>New</u> or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	26	New	A252 GR 3 Bare	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1354	1354	1230 ft^3 / CTS
Coal		•			<u></u>		
Intermediate	9 5/8	New	J-55	36	2721	2721	1050 ft^3 / CTS
Production	6	New	P-110	24	11455	11455	500" alkove intermediate casing
Tubing						· · · · · · · · · · · · · · · · · · ·	
Liners							

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

PACKERS

Kind:			
Sizes:	 	·	
Depths Set:	 		
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Office of Oil and Gas

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WV Department of Environmental Protection Page 2 of 3



WW-6B (04/15) WW-6B (10/14) API NO. 47-

OPERATOR WELL NO. <u>14H</u> Well Pad Name: Raddiff

4704902513

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres):); 17.33 (built)
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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) Pescribe all coment additives associated with each coment type:

Concustor: Class A no additives Surface: Calcium Chloride. Used to speed the setting of cement siurries 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 <u>RECEIVED</u> Office of Oil and Gas

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocatin	g the drill string until cuttings diminish at
surface.	WV Department of
Intermediate: Circulate hole clean while rotating & recipro	cating the drill string werth cuttings diminish at
surface.	
Production: Porform a cloop up available aumation 2.0 hatt	

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

*Note: Attach additional sheets as needed.



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		WEST VIRGINIA GEOLOGICAL PROGNOSIS	
		Radeliff	
		GL0176	
Drilling Objectives:	Marcellus	S-000118	
County:	Marion		
Quad:	Glover Gap		
Elevation:	1506 KB	1493 GL	
Recommended Azimuth	149.5 Degrees		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	111
Sewickley Coal	1200	1206 Co	al			
Pittsburgh Coal	1297	1304 Co	al	Not mined. TransEnergy reported depth at 1200' on 1H and 2	H GL Elevation	
Big Lime	2470	2543 Lit	nestone	SW (ii) _1856.2127.2247		
Big Injun	2543	2671 Sa	ndstone			
Int. csg pt	2721					
Berea	2786	3361 Sa	ndstone	Not shown within Storage		
Gordon	3361	3523 Sil	ty Sand	CONTRACT STATE PERMANANANA CAT PERMANANA CATALAK		
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 Gn	sy shale interbedded			
Geneseo	7699	7739 Bla	ick Shale			
Tully	7739	7769 Lir	nestone			
Hamilton	7769	7872 Gr	ay shale with some			
Marcellus	7872	7949 Bla	ick Shale			
Purcell	7916	7918 Lir	nestone			
-Lateral Zone	7916			MRC2 Target		
Cherry Valley	7929	7931 Lir	nestone			
Onondaga	7949	Lin	nestone			
Target Thickness	78 feet					
Max Anticipated Rock Pressure	2593 PSI					

Comments:

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

RECOMMENDED CASING POINTS

RECOMMENDED CAS	ING POINTS				Planned Depth GL	
Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:		1354	50' Below Pittsburgh
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:		2721	50' Below Big Injun
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD	BEL	EIVEL

Office of Oil and Gas

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· · ·	EQT Pr	oduction	Wellbore Diagram	
Well:	Radcliff 14	Η	County: Marion	
Pad:	Radcliff		State: West Virginia	
Elevation:	1493' GL	1506' KB	470490	2513
			•	, <u> </u>
			Conductor @ 40'	
			26", 85.6, A252 GR3 Bare, cement to surface w	/ Class A/L
2			Surface @ 1,354'	
		1	13-3/8", 54.5#, J-55, cement to surface w/ Class	s A/L
		İ		
		· ·		
	· ·	1 -		
		• • •		
		: :		
			Intermediate @ 2,721'	
	·		9-5/8", 36#, J-55, cement to surface w/ Class A/	L
	· · ·		RECEIVED Office of Oil and Gas	
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	241		WV Department of Environmental Protection	
		`	Production @ 11,455' MD / 7,916' 1	
	``		6", 24#, P-110, cement to 500' inside 9-5/8" w/ 0	lass A/H/L
Formation	n: Marceilus			
· emaile				
,		<u></u>	<u></u>	5/2020ALE



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely James Peterson

Environmental Resources Specialist / Permitting Gas RECEDIN and Gas Office of Oil and Cas

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west virginia department of environmental protection

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

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

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IN THE MATTER OF A VARIANCE FROM 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 ORDER NO. 2014 - 17

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 6 hours.

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CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

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WV 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: Casing on Radcliff 14H

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

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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 14H Well Mannington District, Marion County

Dear Mr. Brewer,

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

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

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

Sincerely,

John Zavatchan Project Specialist - Permitting

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Enc.



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Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

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

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

ORDER NO. 2022-14

REPORT OF THE OFFICE

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

FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L carent, place of API Class A cement, relating to the construction of horizontal wellstrice of Oil and Gas
- 2. Laboratory analysis submitted by NNE on July 14, 2022, indicates A AUGIAS 912 CEMent is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

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 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

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

July 27, 2023

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WV Department of Environmental Protection

Page 1 of 2

4704902513

Purpose

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

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

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

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

1. Communications with Well Operators

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

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

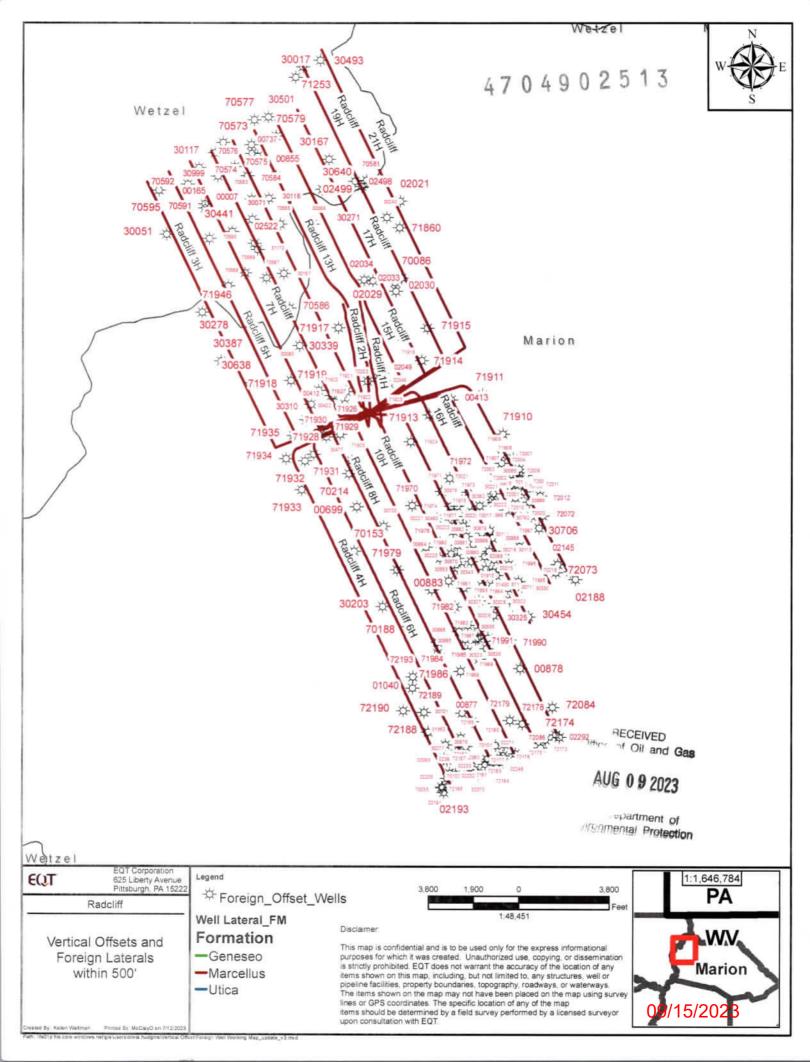
EQT will recommend to these operators at a minimum to:

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

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

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WV Department of page 2 of 2 Environmental Protection



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10577	47 105 705 77 00 00	CARNEGE MATURAL GAS ()
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72180	47 049 77 180 66 08	(N/A)
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21974	47-049-71974-00-00	(M/A)
30376	47 049 30376 00:00	SOUTH PENN OIL IS. PERK NAT WASH
20021	47-049-20021-00-00	(M/A)
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/2005	47 049 72005 00 00	(H/A)
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00699	47 049 00599 00 00	DIVERSIFIED FNERGY
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30220	47-049-30720-00-00	DELMAR OIL CO
405.45	47-049-30536-00-00	THE STATE PIPE COMPANY, THE
30441	47-101-10441-00-00	MANUFACTURERS LIGHT & HEAT CO
/1935	47-049-73935-00.00	(N/A)
72073	47-049-72073-00-00	(N/A)
71989	47 049-71919-00-00	(R/A)
72001	47-049-72001-00-00	(N/A)
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72181	47-049-72181-00-00	(N/A)
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00412	47-049-00412-00-00	DIVERSIFIED ENERGY
30327	47 049 30377-00-00	SOUTH PENN ON (S. PENN MAT GAS)
70101	47-049-70101-00-00	DELMAR CIL CO
71907	47-049 71907-00-00	[N/A]
71960	47-049-/1980-00-00	(N/A)
02233	47-049-02233-00-00	CONSOLIDATION COAL COMPANY
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WW-9	4704902515
(4/16)	API Number 47
	Operator's Well No. Radcliff 14H
	OF WEST VIRGINIA ENVIRONMENTAL PROTECTION
	CE OF OIL AND GAS
FLUIDS/ CUTTINGS E	DISPOSAL & RECLAMATION PLAN
Operator Name EQT Production Company	OP Code306686
Watershed (HUC 10) Bartholomew Fork	Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of water to co Will a pit be used? Yes No	omplete the proposed well work? Yes No No
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No
Proposed Disposal Method For Treated Pit Waster	s:
Land Application	
Underground Injection (UIC Pe	ermit Number_0014, 8462, 4037)
Reuse (at API Number_Various)
Off Site Disposal (Supply form	WW-9 for disposal location)
Other (Explain	
Will closed loop system be used? If so, describe:	closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are ared for transportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and hori	zontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc	2. Synthetic Mud
Additives to be used in drilling medium? See Attached	

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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

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

Company Official Signature	AUG 0 9 2023
Company Official (Typed Name) John Zavatchan	WV Department of
Company Official Title Project Specialist - Permitting	WV Departmental Environmental Protection

Subscribed and sworn before me this 27th day of July	. 20 23
My commission expires_March 9, 2024	Notary Public Rebecca Shrum, Notary Public Beaver County My commission expires March 9, 2024
	Commission number 1267706

4704902513

WW-9 Attachment

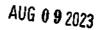
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

 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



WV Department of Environmental Protection

4704902513

Form WW-9

Operator's Well No. Radcliff 14H

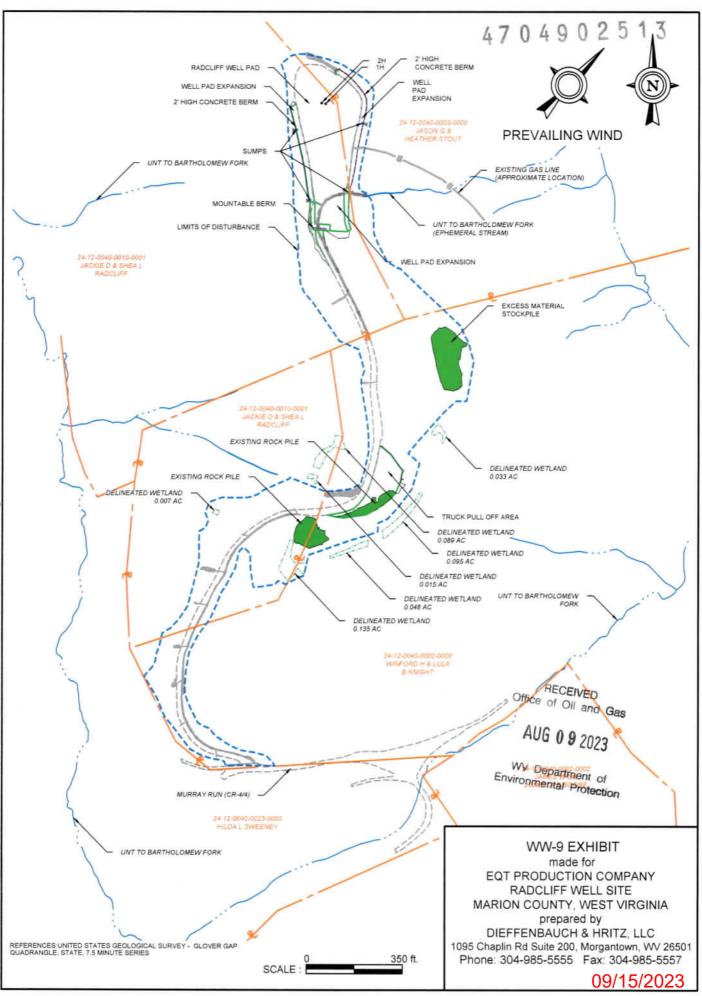
EQT Production Company

roposed Revegetation Treat	iment: Acres Disturbed	Prevegetation pH	[
Lime <u>3</u>	Tons/acre or to correct	ct to pH 6.5		
Fertilizer type Gra	inular 10-20-20			
Fertilizer amount_5	00	lbs/scre		
Mulch_2		_Tons/acre		
		Seed Mixtures		
Te	emporary	Perma	o e nt	
Seed Type	lbs/acre	Seed Type	lbs/acre	
KY-31	40	Orchard Grass	15	
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			

Attach:

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

Photocopied section of invol	lved 7.5' topographic sheet.	,	
	1		
Plan Approved by:	Randall M 7	uchlen	
Comments: Pre-seed/	mulch all disturbed	areas as soon a	s reasonably possible,
	pgrade E&S as neo		
			Office of PECEIVED
			Office of Oil and Gas
	· ·		AUG 0 9 2023
			Wo
			Environmental Protection
Title: DIL & GAR	INSPECTOR	Date: Acg.	2, 2023
Fiéld Reviewed? ()Yes () No	



PLOTTED: 6/11/2021 11:35 AM FILE: X:VOL AND GASIEGT2020/20076/28 - RADCLIFF/CADD (K DRIVE) - WATO CLIENT/DWG/RADCLIFF_WW9 EXHIBIT DWG SCALE: 1:350

		EQT	Production Water Pla	n					- ···
		Offsite Disp	osals for Unconventio	nal Wells					
acility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391		Williamstown	- twv	26187	740-516-3586	Noble	ОН	3390
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	он	43215	740-516-5381	Washineoto	он	8462
			Columbus		-3213	740-510-5581	AASSINGEDUU		0402
AD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	05:0	wv	
	220 101 1000		A A A A A A A A A A A A A A A A A A A		13301	724-550-2760	Unio		USEPA WV 0014
Friad Energy	PO Box 430			он	45 770	740 546 6004			
	1000430		Reno	ОН	45773	740-516-6021	Noole	он	4037
	+				╂────	740-374-2940			<u> </u>
ri County Waste Water Management, Inc.	1497 Tanta Bus David			1.1	+				
in councy waste water wanagement, inc.	1487 Toms Run Road		Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
			<u> </u>	_	<u> </u>	724-499-5647		_	
						1			
ing Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	PA	16101	<u></u>	Lawrence	PA	PAR000029132
					ļ				
Vaste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive	_	Bridgeport	wv	16330	304-326-6027	Harrison	WV	SWF-1032-98
									Approval #100785WV
Vaste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	wv	26104	304-428-0602	Wood	WV	SWF-1025 WV-0109400
								1	
VPEX Landfill	11 County Road 78	PO 80x 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	он	06-08438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road	1	McClellandtown	PA	15458	724-437-7336	Favette	PA	100419
	····								
Vestmoreland Sanitary Landfill	901 Tyrol Boulevard	-	Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
							restribited in		150277
ustin Master Services	801 North 1st Street		Martins Ferry	он	43935	740-609-3800	Belmont	ОН	2014-541
						740.007.0000	Demoin		2014-541
elmont Salids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harricon	ОН	2015 511
	11505 Cadie Hew Holers toau		0012		43901	740-942-1739	marrison	UH	
Diversified Resources	3111 Braun Rd.			он	45714	740 404 0443			
	5111 018011 Ng.		Belpre		45714	740-401-0413	wasnington	ОН	
		<u> </u>			ł		· · · ·	+	
						740-610-1512			34-031-27177
tueles a Brine Do	22005 41		Coshocton	он	43812	724-591-4393		он	34-031-27178
luckeye Brine In	23986 Airport Road			-			Coshocton		34-031-27241
entral Environmental Services						_			
	28333 West Belpre Pike	_	Coolville	он	45723	304-488-0701	Athens	он	
luverra - Nichols									
	10555 Veto Road		Belpre	он	45714	330-232-5041	Washington	он	34-119-2-8776
	،				L	l			
luverra - Goff D 2 0	9350 East Pike Road		Norwich	ОН	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
luverra - Wolf 🧕 🔊	5480 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	он	34-155-2-1893
<u> </u>	3	Ï			· ·				
luverra - Pander	310 State Route 5		Newton Falls	Он	44444	330-232-5041	Trumbull	он	34-155-2-3795
		-		1					
uverra - AnnaRock D-1	3549 Warner Road	1	Fowler	Он	44418	330-232-5041	 Trumbuli	ОН	34-155-2-2403
				1911		200-202-0041			34-133-2-2403

					740-374-2940		· · ·	
		Reno	ОН	45773	412-443-4397		он	
FQ Helen	199 Bowersock Road				740-236-2135	Washington		34-167-2-9577
			_		740-374-2940			
		Dexter City	он	45727	412-443-4397		он	34-121-24037
FQ Dexter	38505 Marietta Rd.			<u> </u>	740-236-2135	Noble		34-121-24086
			+	+	740-374-2940			
		Ellenboro	wv	26346	412-443-4397		wv	
FQ Ritchie	122 Lonesome Pine Rd		_		740-236-2135	Ritchie		47-085-09721
				+	740-374-2940		+	34-105-2-3619
		Portland	он	45770	412-443-4397		он	34-105-2-3652
		r or dama	0,1	-31.70	740-736-2135			34-105-2-3637
FQ Mills	53610 TS Rd 706			<u> </u>		Meigs	<u> </u>	34-105-2-3651
Petta Enterprises - OH	745 North 3rd Street	Cambridge	он	43725	614-477-1368	Guernsey	он	Ohio Chiefs Order 25-019
							ï	
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	wv	25059	740-255-5727	Ohio	w	
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	OH .	34-167-2-9766

WV Department of Environmental Protection

AUG 0 9 2023

HECENCEL Office of Oil and Gas 4704902513

Topo Quad:	Glover Gan	Scale	1" = 1000' / 7	04902513
County:				-
			September 29, 2	.021
District:	Mannington	Project No:	113-18-M-21	
Water	Radcliff Sou	th Well	Pad	
1400	LUPPER MUR	Sources with	nin 2500'	
1/11/11/160/11	Site 9	Site 15	Office of Oli and 2200 AUG 09 Z WV Departs Environmental	aute 123 mem of tion
CABIN CREEK	Site 7 Site 8	Site 6 Site 13 Site 12		Site 5 Site 4
LEGENL	CO RD	414	s l	NAD 27, North Zone
Red Symbol - Declined S Blue Symbol - Requested / Unable to	I Sampling	Site 2 Mu	Site 11	N: 397,610.30 E: 1,735,590.41
 Well Spring Pond Building 		Cer 1300		WGS 84 LAT: 39.587965 LONG: -80.438010 ELEV: 1492.00'
REAL FRANCE	SURVEYING AND MAPPING SERVICES PERFORM ALLEGHENY SURVEYS , 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608		400 Wo	odcliff Drive urg, PA 15317 09/15/2023



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

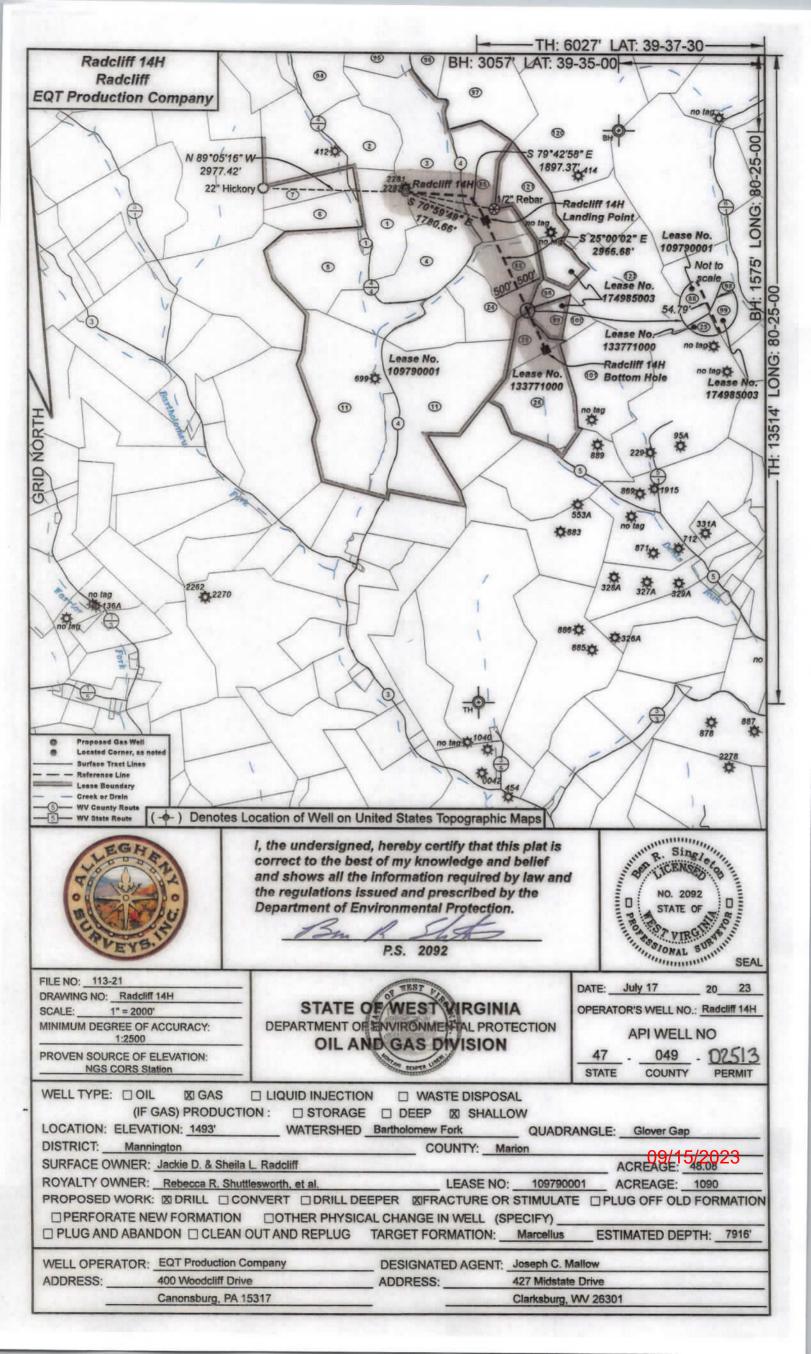
ohn FZavatchan (

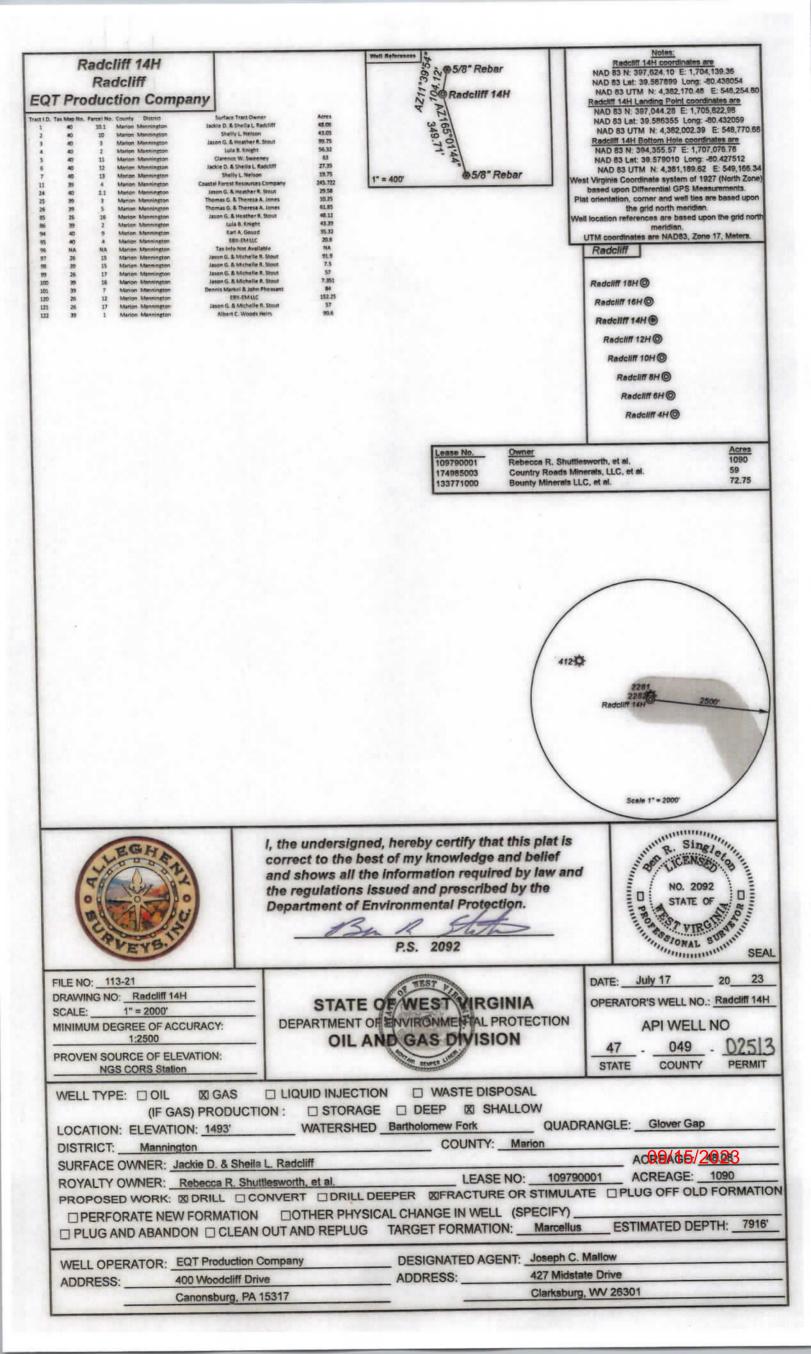
John Zavatchan Project Specialist - Permitting EQT Production Company

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

Oil and Gas Inspector WVDEP Office of Oil and Gas







WW-6A1 (5/13)

Operator's Well No. Radcliff 14H

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

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

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

Lease Name or Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

See Attached

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

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

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

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

Well Operator:	EQT Production Company	John 1	<u>FZavatchan</u> Gr
By:	John Zavatchan	0	
Its:	Project Specialist - Permitting	3	

Page 1 of 2

Office of Oil and Gas AUG 09 2023 WV Department of Environmental Protection

WW-6A1 Allachme	ent		Operator's Well No	Rado	tiff 14H	
Loase No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royatty	Book/Page	
<u>109790001</u>	Rebecca R. Shuttlesworth, et al. Rebucca R. Chuttlesworth, Power of Attorney for Relard Lee Gwinn, Sc., Widower fanorie in Shate Development, Inc. Republic Partners VIII. LLC Republic Energy Ventures, LLC American Shate Development, Inc.	1090 ac	American Shale Development, Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC EQT Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 1117/329 AB 47/469 AB 51/525 DB 1228/1	Confirmatory Deed
<u>174985003</u>	<u>Country Roads Minerals, LLC, et al.</u> Country Roads Minerals, LLC	59 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8*	DB 1291/535	
<u>133771000</u>	Bounty Minerals LLC, et al. Velma Clark, aka Velma M. Clark, widow American Shale Development, inc. Republic Partners VIII, LLC	72.75 ac	American Shale Development Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC	"at least 1 <i>1</i> 8th per WV Code 22-6-8*	DB 1151/442 AB 47/469	
	Republic Energy Ventures, LLC American Shale Development, Inc.		EQT Production Company EQT Production Company		AB 51/525 DB 1228/1	

W Department of Environmental Protection

AUG 0 9 2023

RECEIVED Office of Oil and Gas

4704902513

4704902513

EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317



June 27, 2023

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

Re: Radcliff 14H Gas Well Mannington District, Marion County, WV

Dear Mr. Brewer,

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

Sincerely,

John Zavatchan Project Specialist - Permitting

RECEIVED Office of Oil and Gas

AUG 0 9 2023

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 11712023

Notice	has	been	given:
--------	-----	------	--------

API No. 47-	-
Operator's Well No.	14H
Well Pad Name: Ra	dcliff

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

State:	West Virginia	LITN () (A D 02	Easting:	548,254.796		
County:	Marion	UTM NAD 83	Northing:	4,382,170.479	-	
District:	Mannington	Public Road Acce	ess:	CR 4		
Quadrangle:	Glover Gap	Generally used fa	rm name:	Jackie D. Radcliff and Sheila L. Radcliff		
Watershed:	Bartholomew Fork					

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Cert that the Operator has properly served the required parties with the following:	ification
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY OF INOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCTE	
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CON	DUCTED RECEIVED
3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED OF	
□ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	Contraction and the second sec
(PLEASE ATTACH) 4. NOTICE OF PLANNED OPERATION FECENCE Office Of	and Gas
■ 5. PUBLIC NOTICE	92023 E RECEIVED
■ 6. NOTICE OF APPLICATION	Department Prote RECEIVED
Provined Attackments	in.

Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, 1 John Zavatchan

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	EQT Production Company	Address:	400 Woodcliff Drive
By:	John Zavatchan	7	Canonsburg, PA 15317
lts:	Project Specialist - Permitting	Facsimile:	412-395-2974
Telephone:	724-746-9073	Email:	jzavatchan@eqt.com
			orn before me this 27th day of July 2023

Oil and Gas Privacy Notice:

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

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WW-6A (9-13)

470	4	0	0	2	5	1	7
API NO. 47-	-	-~	1	544	9		J
OPERATOR WE	ELL	NC), 14	\$H			
Well Pad Name:	Ra	dcliff					

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

 Date of Notice:
 12112023

 Notice of:
 Image: Certificate of Approval For The CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

 PERSONAL
 REGISTERED
 METHOD OF DELIVERY THAT REQUIRES A

 SERVICE
 MAIL
 RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: See Attached List	Name: See Attached List
Address:	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address
SURFACE OWNER(s) (Road and/or Other Disturbance)	ECEIVED Gas
Name: See Attached List	SURFACE OWNER OF WATER WEDL
Address:	Address.
	Name: See Attached List
Name:	Address:
Address:	Address: Of OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name:
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name: N/A	Address:
Address:	
	*Please attach additional forms if necessary

WW-6A (8-13)

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.

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoic) or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet the 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 springe The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures activities 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



WW-6A (8-13)

OPERATOR WELL NO. 14H Well Pad Name: Redcliff

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 section 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 theorequired water service until authorized to do so by the secretary or a court of competent jurisdiction.

written comment: Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article only the written comments with the secretary as to the location or construction of the applicants successful to the secretary as to the location of the applicants successful to the secretary as to the location of the applicants successful to the secretary as to the location of the applicants successful to the secretary as to the location of the applicants successful to the secretary as to the location of the secretary successful to the secretary secretary successful to the secretary secretary successful to the secretary secr comments with the secretary as to the location or construction of the applicant's proposed well work within this days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file with the secretary as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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)

OPERATOR WELL NO. 14H Well Pad Name: Radcliff

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> 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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(8-13)	OPERATOR WELL NO. 14H
	Well Pad Name: Radcliff
Notice is hereby given by: Well Operator:EQT Production Company	Address: 400 Woodciiff Drive
Telephone: 724-746-9073	Canonsburg, PA 15317
Email: zavatchan@eqt.com	Facsimile: 412-395-2974

Oil and Gas Privacy Notice:

WW-6A

(8-13)

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

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

Subscribed and sworn before me this 27th day of	July, 2023 .
hebecosh	Notary Public
My Commission Expires March 9, 2024	

API NO. 47-

4704902513

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AUG 0 9 2023

WV Department of Environmental Protection

Surface Owners:

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

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

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

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

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

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

Coal Owners:

Consol Mining Company 1000 Consol Energy Drive Canonsburg, PA 15317

Douglas A. Gwinn 95 Sabraton Avenue Fairmont, WV 26554

Rebecca Shuttlesworth 468 Katy Road Fairmont, WV 26554

Cathie L. Ebert 506 Katy Road Fairmont, WV 26554

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

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

Cynthia Ann Gamer 314 Woodridge Drive Locust Grove, GA 3024

Amy Renee Russell 141 Lossie Lane McDonough, GA 30253

Charles Stewart 181 East Chestnut Street Blairsville, PA 15717 RECEIVED Office of Oil and Gas

AUG 0 9 2023

WV Department of 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

Sheily Neison 325 Cabin Creek Rd. Mannington WV 26582

,EIVEC

AUG 0 9 2023

WV Department of Environmental Protection

			4704002543
Topo Quad:	Glover Gap	Scale:	4704902513 1"=1000'
County:	Marion	Date:	September 29, 2021
District:	Mannington	Project No: _	113-18-M-21
Water	Radcliff Sou	ith Well	Pad
1400	14 Potential Water	Site 10	nin 2500'
CABIN CREEK	Site 9	Site 15 500 2000 Site 6	
	Site 7 Site 8	Site 12	S Site 4
Red Symbol - Declined S Blue Symbol - Requested	ampling Site 1		Site 11 Site 3 NAD 27, North Zone N: 397,610.30 E: 1,735,590.41
/Unable to Well S Spring Pond Building	o Contact	Site 2 Mu Cer 1300	ay
R C R C R C R C R C R C R C R C R C R C	SURVEYING AND MAPPING SERVICES PERFORM ALLEGHENY SURVEYS, 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608	INC. EC	ADD U 2023 RED FOR: TEIPFOGULGETION Company 400 Woodcliff Drive Canonsburg, PA 1531715/2023

09/15/2023



Table 1 – Water Source Identification

EQT Well Pad Name: Radcliff South	Submittal Date: 7/14/2023	
EQT Well Number:		
Survey / Engineering Company: Allegheny Survey	eys, Inc.	
Site Number: 1 Distance from Gas Well (feet): 26	90.72	
Surface Owner / Occupant: Richard Beaty (forme	erly Sweeney)	Landowner Requested
Address: 481 Upper Murray Rd. Mannington W	V 26582 Phone #: 304-986-2878	Sampling Landowner Decline
Field Located Date: 9/27/2018 Owner home du	ring survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.345062, -80.262371 (decimal dec	grees – 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: 9/29/	2021 Door Hanger Left:	
Comments: Water well located behind mobile h	ome next to outbuilding. Very nic	e man.
Site Number: 2 Distance from Gas Well (feet): 24	60.96	
Surface Owner / Occupant: James and Jonella E	Boore	Landowner Requested
Address: 468 Upper Murray Rd. Mannington W	/ 26582 Phone #: 304-986-1517	Sampling Landowner Decline
Field Located Date: 9/27/2018 Owner home due	ring survey (yes/no): Yes	Sampling Unable to Contact
Coordinates: 39.345410, -80.260514 (decimal deg	grees – 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: 9/30/2	2021 Door Hanger Left:	
Comments: Water well located on NE side of ho	ouse. Very friendly.	
Site Number: 3 Distance from Gas Well (feet): 24	85.91	
Surface Owner / Occupant: Heather Stout		Landowner Requested
Address: 546 Upper Murray Rd. Mannington W	/ 26582 Phone #: 304-986-1577	Sampling
Field Located Date: 9/27/2018 Owner home dur	ing survey (yes/no): No	Sampling
Coordinates: 39.345487, -80.260221 (decimal dec		Of Oil a made by EQT's third party pre-dnil sampling lab)
Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2		G 0 9 2023
Comments: Spoke to friend there. Said she would	ask and be in touch. Water well loca	ted behind house.
(Insert additional pages as needed)	Environn	nental Protection

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

Surface Owner / Occupant: Winford Knight

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

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

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

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

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

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

Surface Owner / Occupant: Winford Knight

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

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

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

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

Comments: Pond located.

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

Surface Owner / Occupant: Jason and Michelle Stout

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

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

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

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

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

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

Surface Owner / Occupant: Jackie Radcliff

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

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

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

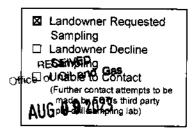
Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: Yes

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

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

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

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



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Site Number: 8 Distance from Gas Well (feet): 1318.14 Surface Owner / Occupant: Jackie Radcliff Landowner Requested Sampling Address: 161 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-3968 Landowner Decline Sampling Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes Unable to Contact (Further contact attempts to be Coordinates: 39.350548, -80.262547 (decimal degrees - NAD 83) made by EQT's third party pre-drill sampling lab) Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: ___ Comments: 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 Reguested Sampling Address: 325 Cabin Creek Rd. Mannington WV 26582 Phone #: 304-986-1807 Landowner Decline Sampling Field Located Date: 9/27/2018 Owner home during survey (yes/no): Yes Unable to Contact (Further contact attempts to be Coordinates: 39.350687, -80.254806 (decimal degrees - NAD 83) made by EQT's third party pre-drill sampling lab) Contact Attempts (Date): 1st: 9/26/2018 2nd: 9/30/2021 Door Hanger Left: _____ Comments: Water well located next to driveway beside garage. Site Number: 10 Distance from Gas Well (feet): 2429 Surface Owner / Occupant: EBX-EM LLC Landowner Requested Sampling Address: 6575 W Loop S Ste 300, Bellaire TX 77401 Phone #: ___ Landowner Decline Sampling Field Located Date: ____ Owner home during survey (yes/no): ___ □ Unable to Contact (Further contact attempts to be Coordinates: 39.354067, -80.261879 (decimal degrees - NAD 83) made by EQT's third party pre-drill sampling lab) Contact Attempts (Date): 1st: _____ 2nd; _____ Door Hanger Left: ___ Comments: Property behind gate. Has water well. Formerly Henry Deem - called on 10/4/2021 & said he had sold property. Signature page received 10/11/2021 declining sampling. Property was granted to EBX-EM LLC on 9/15/2021 (DB 1289/894). Site Number: 11 Distance from Gas Well (feet): 2448.09 Surface Owner / Occupant: Heather Stout

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

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

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

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

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

 ☑ Landowner Requested Sampling
 □ Landowner Decline Sampling
 □ Unable to Contact (Further contact attempts to be the Calaber by EQT's third party (Unice of "Que data sampling tab)

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WV Department of Environmental Protection

Site Number: 12	Distance from Gas Well (feet): 2290.16
Surface Owner / Occup	ant: Heather Stout

Address: **546 Upper Murray Rd. Mannington WV 26582** Phone #: **304-986-1577** Field Located Date: **10/15/2018** Owner home during survey (yes/no): **No** Coordinates: **39.345721, -80.260191** (decimal degrees – NAD 83) Contact Attempts (Date): 1st: **9/26/2018** 2nd: **9/30/2021** Door Hanger Left: Yes

Comments: Spring located near garage in fence line.

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

Surface Owner / Occupant: Heather Stout

Cite Manual and An

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

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

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

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

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

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

Surface Owner / Occupant: Jason and Michelle Stout

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

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

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

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

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

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

Surface Owner / Occupant: Jason and Michelle Stout

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

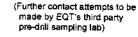
Field Located Date: 10/08/2018 Owner home during survey (yes/no); ____

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

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

Comments: Stream located closer to Stout's house.

 Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact



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

- Landowner Requested Sampling
 Landowner Decline Sampling
 Unable to Contact
- (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
- Landowner Requested Sampling
 Landowner Decline Sampling
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AV Department of anvironmental Protection WW-6A4 (1/12)

Operator Well No. Radcliff 14H

4704902513

STATE OF WEST VIRGINIA

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 04/27/2023 Date Permit Application Filed: 2/3/2023

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

\Box	HAND	88	CERTIFIED MAIL
	DELIVERY		RETURN RECEIPT REQUESTED

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

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

Name: See Attached List	Name: See Attached List
Address:	Address:

Notice is hereby given:

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

State:	West Virginia	LITMANAD 82	Easting:	548254.796	
County:	Marion	UTM NAD 83	Northing:	4382170.479	
District:	Mannington	Public Road Acce	ess:	CR 4/4	
Quadrangle:	Glover Gap	Generally used fa	arm name:	Jackie D. Radcliff and Sheila L. Radcliff	
Watershed:	Bartholomew Fork				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

Well Operator: Address:	EQT Production Company	Authorized Representative:	John Zavatchan	
	400 Wooddiff Drive	Address:	400 Woodcliff Drive	
	Carionsburg, PA 15317		Canonsburg, PA 15317	
Telephone:	724-746-9073	Telephone:	724-746-9073	
Email:	jzavatchan@eqt.com	Email:	jzavatchan@egt.com	
Facsimile:	412-395-2974	Facsimile:	412-395-2974	

Oil and Gas Privacy Notice:

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



Surface Owners:

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

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

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

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

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

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

> RECEIVED Office of Oil and Gas

AUG 09 2023

WV Department of environmental Protection

WW-6A5 (1/12)

Operator Well No. Radcliff 14H

4704902513 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 7/27/2023 Date Permit Application Filed: \$1812023

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

群	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: See Attached List	Name:	
Address:	Address:	

Notice is hereby given:

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

State:	West Virginia	UTM NAD 83	Easting: Northing:	548,254.796	
County: District:	Marion	UTMINAD 83		4,382,170,479	
	Mannington	Public Road Access:		CR 4/4	
Quadrangle:	Giover Gap			Jackie D. Radcliff and Sheila L. Radcliff	
Watershed:	Bartholomew Fork				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-andgas/pages/default.aspx.

	EQT Production Company	Address:	400 Woodcliff Drive	
Telephone:	724-746-9073		Canonsburg, PA 15317	
Email:	Jzavatchan@eqt.com	Facsimile:	412-395-2974	

Oil and Gas Privacy Notice:

HECEIVED The Office of Oil and Gas 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 Apple aste. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov. WV Department of

Environmental Protection

Surface Owners:

4704902513

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

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WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

April 24, 2023

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

Subject: DOH Permit for the Radcliff Pad, Marion County Radcliff 14H 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,

ren K. Clayton

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

AUG 0 9 2023

WV Department of Environmental Protection

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

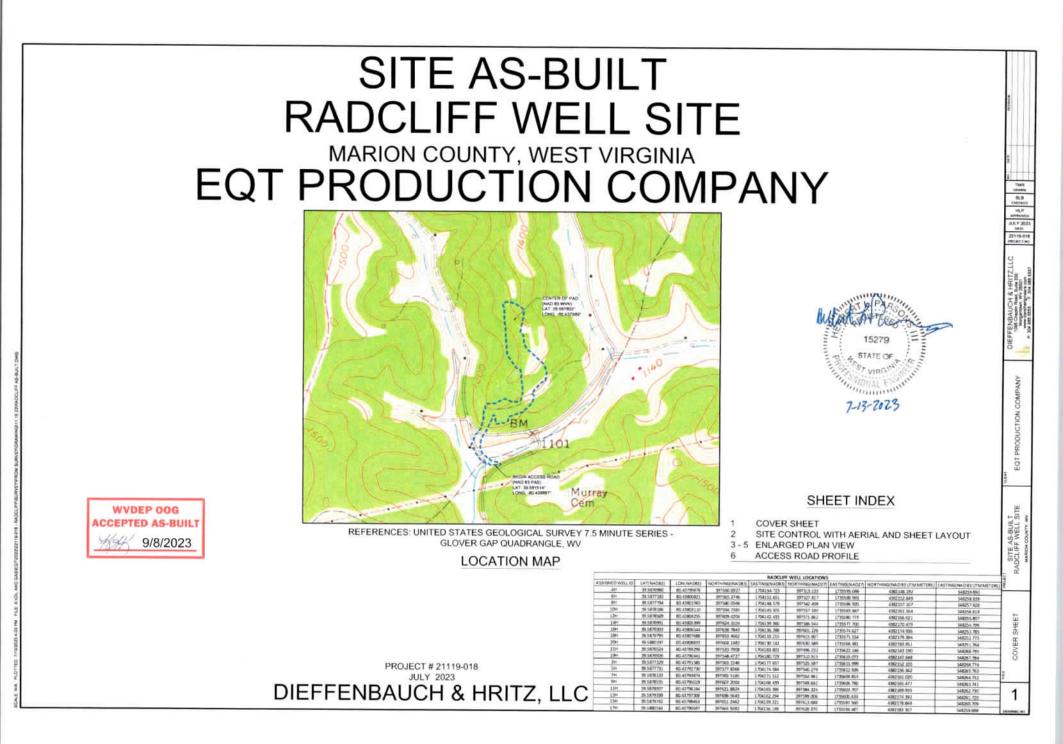
Anticipated Frac Additives Chemical Names and CAS Numbers

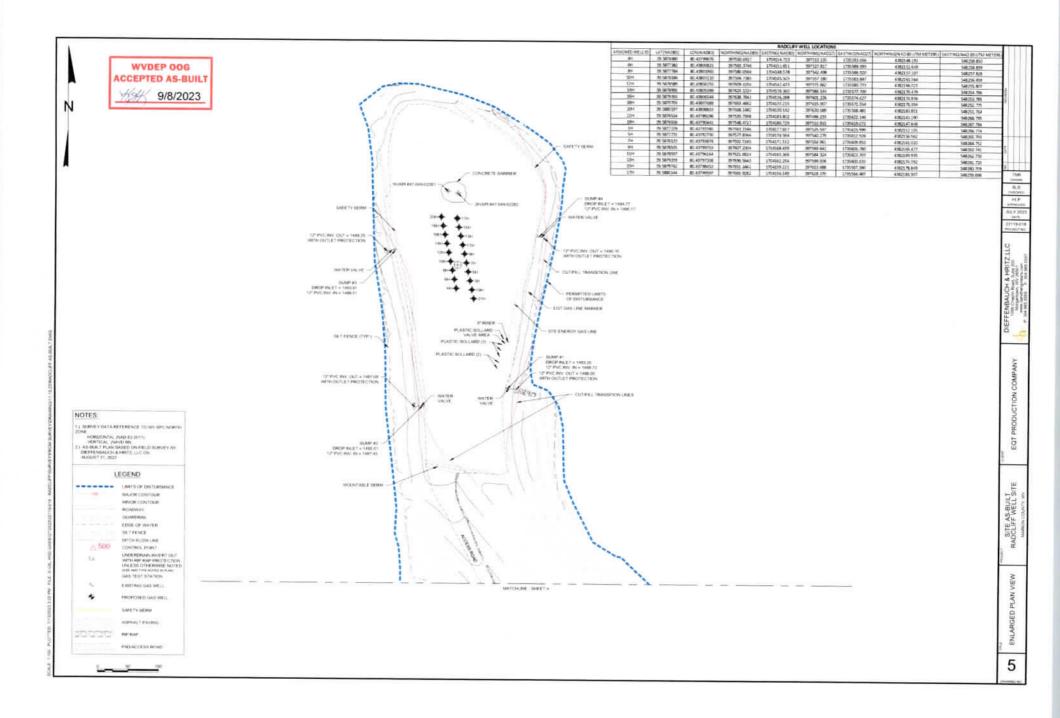
<u>Material</u>	Ingredient	CAS Number
Sand (Proppant)	Silica Substrate	14808-60-7
Water	Water	7732-18-5
Hydrochloric Acid (HCl)	Hydrogen Chloride	7647-01-0
Friction Reducer	Copolymer of 2-propenamide	· · · · •
	Petroleum Distillate	Proprietary
	Oleic Acid Diethanolamide	64742-47-8
	Alcohols, C12-16, ethoxylated	93-83-4
		68551-12-2
Biocide	Ammonium chloride ((NH4)Cl)	12125-02-9
DIOCIDE	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	
Acid Chelating Agent	Citric Acid	Proprietary
Corrosion Inhibitor	Methanol	77-92-9
	pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	67-56-1
	Nonoxynol-9	68909-18-2
	2-ethyl-1-hexanol	127087-87-0
		104-76-7
	4-nonylphenyl, ethoxylated	26027-38-3

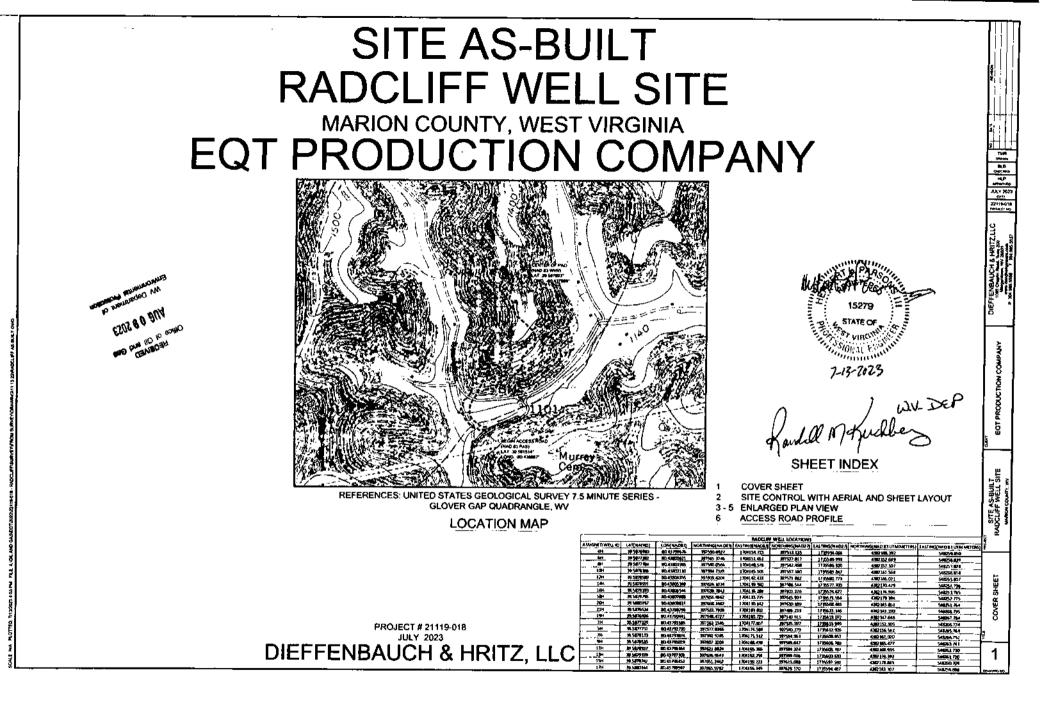
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WV Department of Environmental Protection







WW-6A7 (6-12)	4704902513						
OPERATOR: EQT Production Company	WELL NO: 14H						
PAD NAME: Radcliff							
REVIEWED BY: John Zavatchan	SIGNATURE:						
WELL RESTRICTIONS CHECKLIST							
HORIZONTAL 6A WELL							
Well Restrictions							
At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR							
DEP Waiver and Permit Conditions							
At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR							
DEP Waiver and Permit Conditions							
At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR							
DEP Waiver and Permit Conditions							
At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR							
Surface Owner Waiver and Recorde	d with County Clerk, OR						
DEP Variance and Permit Condition	15						
At Least 625 Feet from an Occupied Dwell	ing Structure to Center of the Pad; OR						
Surface Owner Waiver and Recorde	d with County Clerk, OR						
DEP Variance and Permit Condition	15						
At Least 625 Feet from Agricultural Buildin of the Pad; OR	ngs Larger than 2500 Square Feet to the Center RECEIVED						
Surface Owner Waiver and Recorde							
DEP Variance and Permit Condition							