

west virginia department of environmental protection

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

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

Friday, January 4, 2019 WELL WORK PERMIT Horizontal 6A / Fracture

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for ERLEWINE 8H 47-103-02954-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A ERLEWINE, RICHARD 47-103-02954-00-00 Horizontal 6A Fracture Date Issued: 1/4/2019

Promoting a healthy environment.

API Number: 4710302954

PERMIT CONDITIONS

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

CONDITIONS

- 1. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 2. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 3. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 4. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 5. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 6. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

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

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

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: EQT Production Company 625 Liberty Ave., Suite 1700 Pittsburgh, PA 15222

DATE: December 19, 2018 ORDER NO.: 2018-W-13

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to EQT Production Company (hereinafter "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- EQT Production Company is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 625 Liberty Ave., Suite 1700, Pittsburgh, PA 15222.
 - On September 20, 2018, EQT Production Company submitted well work permit applications identified as API#s 47-103-02950, 47-103-02951, 47-103-02952, 47-103-02953, 47-103-02954, 47-103-02955 and 47-103-03012. The proposed wells are to be located on the Erlewine Pad in Proctor District of Wetzel County, West Virginia.
 - On September 20, 2018, EQT Production Company requested a waiver for Wetland A as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-103-02950, 47-103-02951, 47-103-02952, 47-103-02953, 47-103-02954, 47-103-02955 and 47-103-03012.

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

<u>ORDER</u>

West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland A from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-103-02950, 47-103-02951, 47-103-02952, 47-103-02953, 47-103-02954, 47-103-02955 and 47-103-03012. The Office of Oil and Gas hereby **ORDERS** that EQT Production Company shall meet the following site construction and operational requirements for the Erlewine Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland A shall have two layers of silt fence to prevent any sediment from reaching the wetland from the well pad. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetland.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (1/2") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 19th day of December 2018.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

James A. MARTIN, CHIEF By: \angle

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: Multiple - see text below

Operator's Well Number: ____

API Numbers: 103-02950 to 103-029555; 103-02999; 103-03000; 103-03012

Well Operator: EQT Production Company

Well Number:	Well Pad Name: Erlewine
County, District, Quadrangle of Well Location:	Wetzel County; Proctor District; New Martinsville Quadrangle

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows:

(1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir.

(2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake.

(3) For a groundwater source, the distance shall be measured from the wellhead or spring.

The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.

§22-6A-12(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.

01/04/2019

API Number: Multiple - see text below

Operator's Well Number: ____

API Numbers: 103-02950 to 103-029555; 103-02999; 103-03000; 103-03012

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.

The Erlewine Modification project is located in Wetzel County, WV. The limits of investigation (LOI) are 3.52 acres (AC) and encompass the entire limits of disturbance (LOD). One palustrine emergent (PEM) wetland was found within the LOI. This wetland is 0.03 AC and is located southeast of the existing well pad. The attached photographs and delineation map depict the site conditions, and the associated data sheet for the wetland is also enclosed. No perennial streams are present within the LOI.

2. Justify the proposed activity by describing alternatives to this project that were considered.

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

a. The No-Action Alternative will prevent completion of the wells. The expansion will provide sufficient area for the additional equipment and vehicles needed for well completion operations.

b. Location alternatives for the project are not feasible. This is an existing well site.

c. The options to maintain the 100-foot buffer were not feasible. Expansion to the north would result in an excess of spoil material, and expansion to the east is prevented by the 1:1 and steeper slopes immediately outside the project LOD. Expansion to the west was limited by the existing topography and did not allow for sufficient space.

d. The current proposed design is the least environmentally damaging practical alternative based on the existing site conditions and the surrounding topography. The proposed design utilizes previous earth work at the site to limit the amount of additional earth work required. As noted above in the discussion of considered options, the steepness of the site topography limits the configurations to the south and east. The necessary space has been obtained with the minimum required earth disturbance and avoiding any direct resource impacts.

11/3/14 Wetland and Perennial Stream Waiver Request

API Number: <u>Multiple - see text below</u>

Operator's Well Number: ____

API Numbers: 103-02950 to 103-029555; 103-02999; 103-03000; 103-03012

3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.

Wetland A will be protected as follows:

-silt fence will be placed directly downslope of the disturbed area -temporary and permanent vegetative cover will be located above the wetland -additional silt fence will be installed between the orange safety fence surrounding the wetland and the silt fence directly downslope of the disturbed area -the existing site drainage features, which include toe key drains, well pad sumps, ditches, culverts, and well pad drains, prevent any discharge to the wetland -a sump and rip rap apron will be installed for drainage of the south expansion area and will prevent discharge into the wetland

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.
 - a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

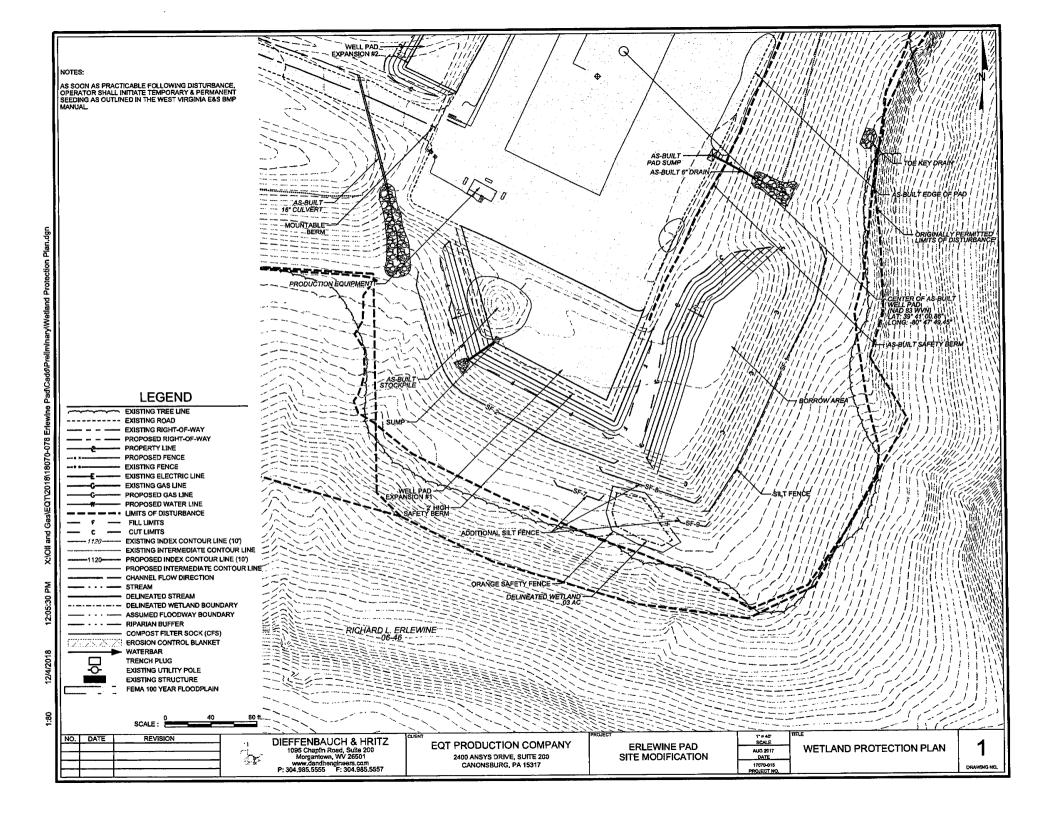
As outlined in Question 3, all existing drainage features on the site prevent discharge into the wetland.

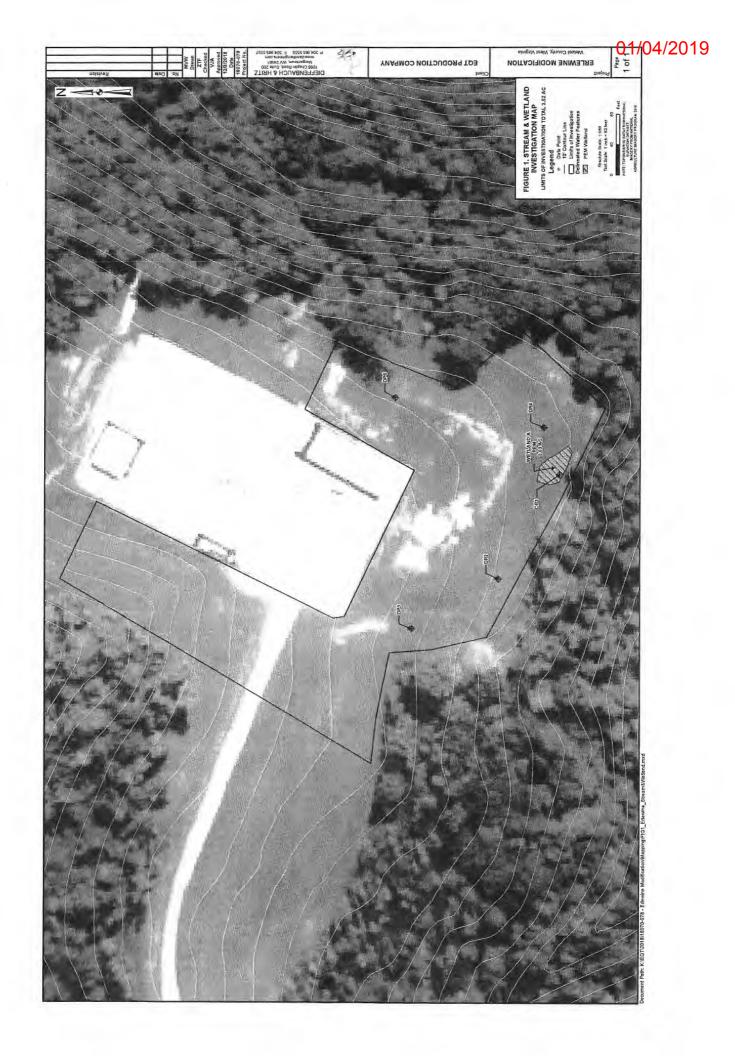
Additional measures include:

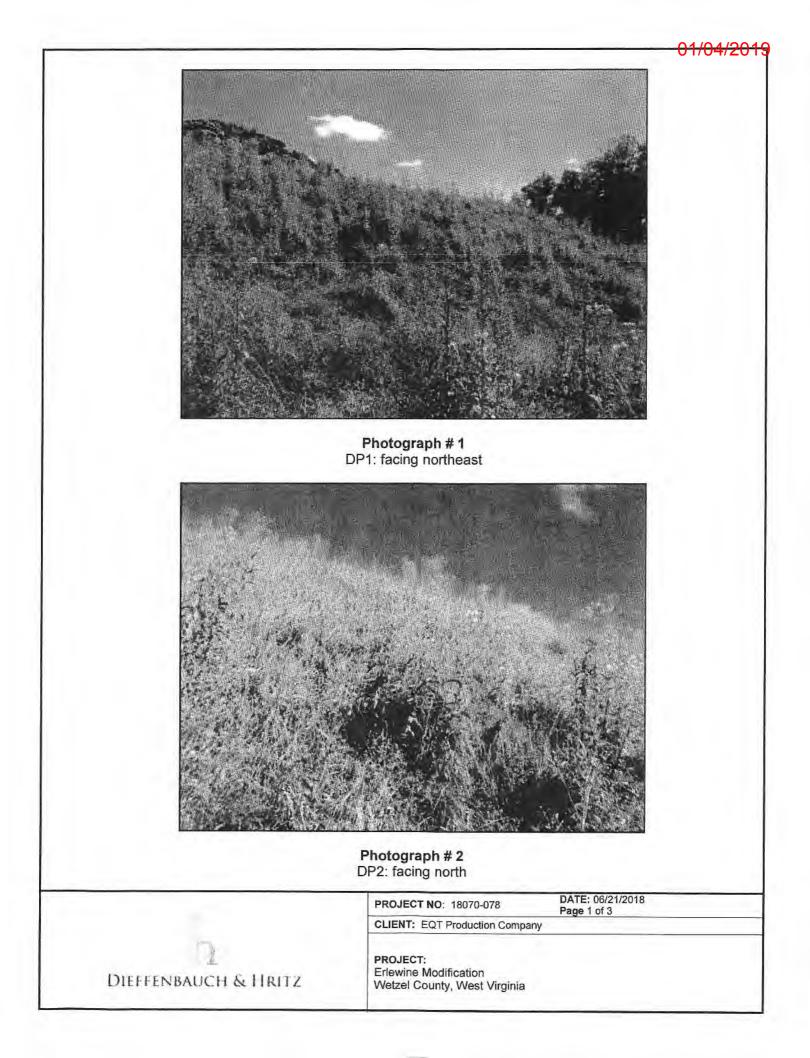
-a second silt fence adjacent to the wetland and downslope of the initial silt fence -temporary and permanent vegetation installed as soon as possible following disturbance above the wetland

-drainage features for the southern expansion that prevent discharge into the wetland

The attached exhibit provides a detail for the additional silt fence around the wetland.









Photograph # 3 Wetland A (DP3): facing west



Photograph # 4 DP4: facing southeast

PROJECT NO: 18070-078

DATE: 06/21/2018 Page 2 of 3 01/04/201

CLIENT: EQT Production Company

PROJECT: Erlewine Modification Wetzel County, West Virginia

DIEFFENBAUCH & HRITZ

		01/04/2019
	Photograph # 5 DP5: facing south	
	PROJECT NO: 18070-078 DATE: 06/21/2018 Page 3 of 3	
	CLIENT: EQT Production Company	
1	PROJECT:	
DIEFFENBAUCH & HRITZ	Erlewine Modification Wetzel County, West Virginia	

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region

Project/Site: Enewine Modification	City/County: Wetzel County	Sampling Date:	9/14/2018	
Applicant/Owner: EQT Production Company	State: PA	Sampling Point:	DP3	
Investigator(s): M. Wagner, Z. France	Section, Township, Range:			
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	Concave	Slope (%): 10-15	
Subregion (LRR or MRLA): LRR N Lat: 35	9.68244377 Long: -80.79705042		Datum: NAD83	
Soil Map Unit Name: Gilpin-Peabody complex	(GpD) NWI Classifica	tion: PEM		
	ology No significantly disturbed? Are "Norm	(If no, explain in Rer al Circumstances" pres X No	ent?	
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No Is the Sampled Area within a Wetland?	Yes <u>V</u> No		
Remarks: Explain alternative procedures here of Plot located within Wetland A.	r in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is required:	Check all that apply)	Surface Soil C	- <u> </u>	
Surface Water (A1)	True Aquatic Plants (B14)	tion and the second	etated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patt		
Saturation (A3)	✓ Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lin		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction Tiled Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algai Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)		
✓ Iron Deposits (B5)	<u></u>	Geomorphic P	Position (D2)	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita	ard (D3)	
Water-Stained Leaves (B9)		Microtopograp	hic Relief (D4)	
Aquatic Fauna (B13)		FAC-Neutral T	est (D5)	
Field Observations:			· · · · · · · · · · · · · · · · · · ·	
Surface Water Present? Yes	No 🗸 Depth (inches):	Wetland Hy	vdrology Present?	
Water Table Present? Yes	No ✓ Depth (inches):	, including his	drology r resent:	
Saturation Present? Yes	No ✓ Depth (inches):	Yes 🗸	No	
(includes capillary fringe)		·····		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if available:			
Remarks:				
Hydrology features are evident.				

VEGETATION - Use scientific names of plants				Sampling Point: DP3
Tree Stratum (Plot Size: 30 ft. radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That AreOBL, FACW, or FAC:2(A)
3.				Total Number of Dominant Species
4 5. \			. <u> </u>	Across All Strata: <u>2</u> (B)
6.		·	·	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
7		·	·	
······································	<u></u>	= Total Cov	er	Prevalence Index worksheet:
		-		Total % Cover of Multiply by:
Sapling/Shrub Stratum (Plot Size: 15-ft. radius)				OBL species x1 =
1.				FACW species x 2 = FAC species x 3 =
3.		·		
A				FACU species x 4 = UPL species x 5 =
6		•		
			·	Column Totals: (A) (B)
6				Prevalence Index = B/A =
8.		·	<u> </u>	
9			·	Hydrophytic Vegetation Indicators:
	·		,	1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot Size: 5 ft. radius)		= Total Cover	r	\times 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^3$
1. Barnyard grass (Echinochioa crus-galii)	50	Yes	FAC	4 - Morphological Adaptations ¹ (Provide supporting
Yellow nutsedge (Cyperus esculentus)	20		FACW	data in Remarks or on a separate sheet)
		Yes	OBL	4
3. Rice cut grass (Leersia oryzoides)	10	<u>No</u>		5 - Problematic Hydrophytic Vegetation ¹
4. Woolgrass (Scirpus cyperinus)	10	No	FACW	Indicators of hudring and unstand hudralage must be
Japanese Stilt Grass (Microstegium vimineum) Soft Rush (Juncus effusus)	5	No No	FAC FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				
9				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
10 11		·		breast height (DBH), regardless of height.
12		·		Sapling/shrub - Woody plants less than 3 in. DBH and
	100	= Total Cover	-	greater than or equal to 3.28 ft. tall.
Woody Vine Stratum (Plot Size: <u>30-ft. radius</u>)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
2.		·		
3				Woody vines - All woody vines greater than 3.26 ft. in height
4 5.				
6.				Hydrophytic Vegetation Present?
	<u> </u>	= Total Cover		Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)			K
Hydrophytic vegetation is present.				

SOIL								Sampling	Point:	DP3
Profile Descri	ption: (Describe to	the depth n	eeded to documen	t the indic	ator or conf	irm the ab	sence of indicato	rs.)		
Depth	Matrix		F	Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture		Remark	s
0-6	10YR 4/1	95	10 YR 5/6	5	c	PL	SiCL	Sandstone T	hroughout	·
6-18	10 YR 4/1	100					SCL			
								· · · · · ·		
							·			
							· · · · · · · · · · · · · · · · · · ·	·		
						<u></u>		· ····		
	_									
										· · · · · · · · · · · · · · · · · · ·
¹ Type: C=Concen	tration, D=Depletic	n, RM≕Re	duced Matrix. MS	- ——— ≃Masked	Sand Grai	ns.	² Location: PL=	Pore Lining	M=Matrix	
Hydric Soil Indica							Indicators for			3
Histosol (A1)			Dark Surface	(S7)				(A10) (LRR	-	
Histic Epipedo	on (A2)		Polyvalue Be		ce (S8) (ML	RA			16) (MLRA 14	47, 148)
Black Histic (A			147, 148						oils (F19) (MLi	
Hydrogen Suit			Thin Dark Su	rface (S9)	(MLRA 14)	7,		w Dark Surfa		
Stratified Laye			148)				Other (Expl	lain in Rema	rks)	
2 cm Muck (A	w Dark Surface (A1	1)	Loamy Gleye		F2)					
Thick Dark Su		')	Redox Dark S		6)					
	Mineral (S1) (LRR N	٩,	Depleted Dar							
	147, 148)	-	Redox Depre							
Sandy Gleyed			Iron-Mangane	ese Masse	ės (F12) (LF	RR N,				
Sandy Redox			MLRA 13	•						
Stripped Matri	x (S6)		Umbric Surfa	ce (F13) (MLRA 136,	122)			ic vegetation a	
			Piedmont Flo						ent, unless dis	sturbed or
Restrictive Layer	(if obconvod):		Red Parent N	laterial (F2	21) (MLRA	127,147)	problematic). 		
-	(ii observed):									
Туре:									[ן ו
Depth (inches)):			Hydric \$	Soil Presen	it?	Yes		No	
Remarks:										
Hydric soil is	s present.									
,	1									
				_						

WW-6B (04/15)

APINO. 47- 103 - 02954

01/04/2019

OPERATOR WELL NO. Erlewine 8H Well Pad Name: Erlewine

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

1) Well Opera	tor: EQT F	Production C	ompany	306686	Wetzel	Proctor	New Martinsville
				Operator ID	County	District	Quadrangle
2) Operator's	Well Numbe	er: Erlewine	8H	Well	Pad Name: Erle	ewine	
3) Farm Name	/Surface Ow	vner: Erlewin	e, Richard	det al Public I	Road Access: M	Vetzel Count	y Route 1/2
4) Elevation, c	urrent groun	id: 1212	El	evation, propos	ed post-construc	ction: 1212	
5) Well Type	(a) Gas Other	<u>x</u>			nderground Stor		1000/000000000000000000000000000000000
	(b)If Gas	Shallow	Х	Deep			
		Horizontal	x		- Hannel & Avyor Later		Drit
6) Existing Pa							10-4-18
7) Proposed Ta Marcellus, 6	arget Format 692 TVD, 50'	ion(s), Depth thick, anticipa	(s), Antici ated press	pated Thicknes ure is 3800 to 44	ss and Expected 400 psig	Pressure(s):	
8) Proposed To	otal Vertical	Depth: 669	2				
9) Formation a	t Total Verti	cal Depth:	Marcellus				and the second se
10) Proposed 7	Fotal Measur	ed Depth:	11729			- U.S.C	
11) Proposed H	lorizontal Le	eg Length:	4641			and a second sec	
12) Approxima	ate Fresh Wa	ter Strata Dej	pths:	100			an a
 13) Method to 14) Approxima 			-	epth of bit when w	vater shows in the f	lowline or wher	n drilling soap is injected
15) Approxima	ate Coal Sean	n Depths: 98	38, 999				
16) Approxima	te Depth to I	Possible Voic	l (coal mir	ne, karst, other)	None Anticip	ated	
17) Does Prope directly overlyi	osed well loc ing or adjace	ation contain nt to an activ	coal seam e mine?	15 Yes	N	o X	
(a) If Yes, pro	ovide Mine I	nfo: Name:					
		Depth:					
		Seam:					RECEIVED Office of Oil and Ga
		Owner	:				<u> OCT - 9 2018</u>
							WV Department of Environmental Protectio

API NO. 47- 103 _ 02954

OPERATOR WELL NO. Erlewine 8H Well Pad Name: Erlewine

WW-6B (04/15)

(04/15

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20	New	LS	94.1	90'	90'	40 CTS
Fresh Water	13.375	New	J55	54.5	1,220' KB-1,210' GL	1,220' KB-1,210' GL	
Coal	13.375	New	J55	54.5	1,220' KB-1,210' GL		1,077 CTS
Intermediate	9.625	New	J55	36	2,398'	2,398'	Lead-533 Tail-430
Production	5.5	New	P110	20	11.711'	11.711'	Lead-422 Tail-2,598
Tubing	2.375	New	J55	4.7			N/A
Liners	N/A						10/1



TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<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	20	24	0.375"	N/A	40 psi	Type 1	1.18
Fresh Water	13.375	17.5	0.380"	2,730 psi	2,184 psi	HalCem Class "A"	1.21
Coal	13.375	17.5	0.380"	2,730 psi	2,184 psi	HalCem Class "A"	1.21
Intermediate	9.62	12.25	0.352"	3,520 psi		Lead-VariCem Tail Harr	CORE CORE CORE CORE CORE CORE CORE CORE
Production	5.5	8.75	0.361"	12,360 psi	10,112 psi	Lead-TurodSpacer3 Taa	remediate and a second s
Tubing	2.375	N/A	0.190"	7,700 psi	. o, i i i poi	Đ	2000 2.07 101-1.20
Liners							

PACKERS

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

OCT - 9 2018

WV Department of Environmental Protection WW-6B (10/14)

API NO. 47- 103 - 02954 OPERATOR WELL NO. Erlewine 8H Well Pad Name: Erlewine

19) Describe proposed well work, including the drilling and plugging back of any pilot hole: Well has been drilled to TD, propose to perforate and fracture the Marcellus and turn into production.

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, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): no additional

22) Area to be disturbed for well pad only, less access road (acres): no additional

23) Describe centralizer placement for each casing string:

Surface casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, and 28. Intermediate casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28, 32, and 36. Production casing had rigid centralizers placed on every fourth joint begining with joint 2 to joint 138. Ran a total of 35 rigid spiral centralizers. Ran bow spring centralizers from joint 141 to joint 246 on every third joint. A total of 36 bow spring centralizers were run.

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

Fresh Water/Coal cement is typically Class A w/ 0.25 pps Cello-Flake and 1.0% to 3.0% CaCl2. Intermediate cement is a lead/tail blend with the lead being Class A with 10% Salt and 0.25 pps Cello-Flake. Tail is Class A with 0.25 pps Cello-Flake and 1.0% to 3.0% CaCl2. Production cement is a lead/tail blend with the lead being HES's GASSTOP blend w/ 0.8% Retarder and tail being HES's HALCEM blend w/ 0.65% Retarder and 0.1% Dispersant or SLB with lead/tail with the lead being Class A w/ 10% Salt or Class A w/ FlexSeal and the tail being Class A w/ 0.2% Dispersant, 0.4% Fluid Loss, 0.2% Anti-Foam, 0.15% Retarder, and 0.2% Anti-Settling Agent.

25) Proposed borehole conditioning procedures:

Fresh Water/Coal section will be done by circulating air through the drill string at TD between 30 and 90 minutes or until the well bore clears of cuttings.

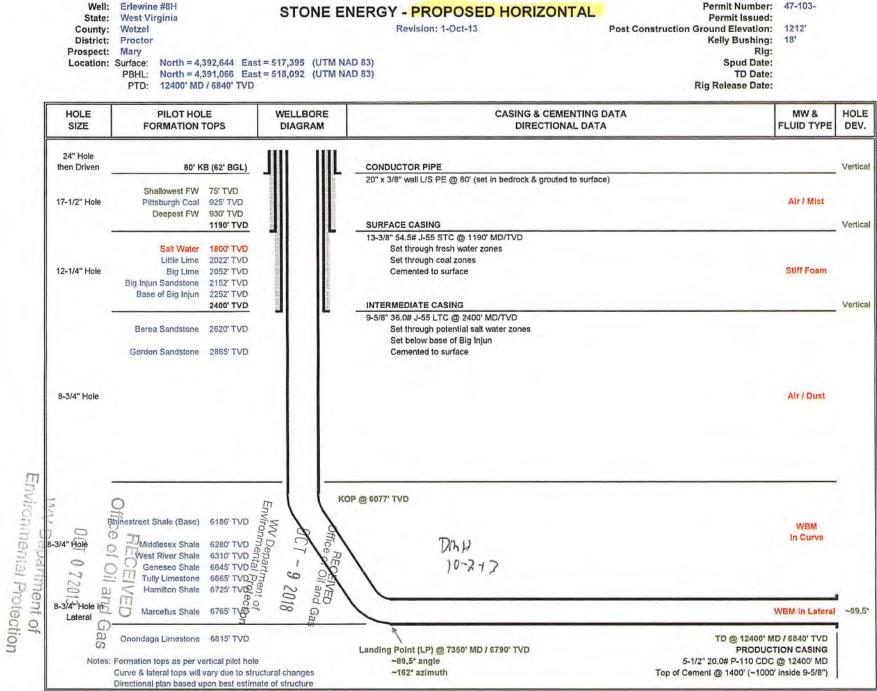
Intermediate section will be done by circulating air and/or stiff foam through the drill string at TD between 30 and 120 minutes or until the well bore clears of cuttings.

Production section will be done by circulating drilling fluid through the drill string at TD between 120 to 720 minutes (a minimum of 3 bottoms up) until the shakers are clear of cuttings. OCT - 9 2018

*Note: Attach additional sheets as needed.

WV Department of Environmental Protection Page 3 of 3

01/04/2019



Well: State: County: District: Prospect: Location:	West Virginia Wetzel Proctor Mary Surface: (N) 433,644	8' (E) 1,634,8 7' (E) 1,635,7	# 2014-0331T) Post Col 887' StPI WV North I 128' StPI WV North I		1/8/2014 1212' 10' Highlands Rig #2
HOLE SIZE	FORMATIO TOPS	N	WELLBORE DIAGRAM	CASING & CEMENTING DATA	MW HOLE & DEV. TYPE
Pre-Set Conductor	90' K	B (80' BGL)		CONDUCTOR PIPE	~0.24°
17-1/2" Hole (Hammer)	Shallowest FW Coal Coal Coal Pittsburgh Coal Deepest FW	100' TVD 318' TVD 770' TVD 988' TVD 999' TVD 1008' TVD		20" @ 90' (set in bedrock & SURFACE CASING	Air / Mist ~0.25°
12-1/4" Hole (Rock Bit)	RED BEDS Salt Water Little Lime Big Lime Big Injun	1222' 1671' TVD 2014' TVD 2044' TVD 2144' TVD		13-3/8" 54.5# J-55 STC @ 13-3/8" Set through fresh wat Set through coal zone Cement to surface	222' KB - 1212' GL er zones
	Base of Big Injun	2244' TVD 2398' 2612' TVD		INTERMEDIATE CASING 9-5/8" 36.0# J-55 LTC @ 23 Set through potential Set below base of Big Cement to surface	salt water zones
	Gordon	2857' TVD		Performed Slant due to anti-co	Ilision concerns
8-3/4" Slant (Hammer)					
		5781' TVD			Air / Dust ~5.51°
	Rhinestreet Middlesex West River Geneseo Shale Tully LS Hamilton Shale Marcellus Shale	6178' TVD 6272' TVD 6302' TVD 6637' TVD 6657' TVD 6717' TVD 6757' TVD		OP HOLE TD @ 5793' MD / 5781' (~129' above planned KOP)	

WW-9	
(4/16)	API Number 47 - 103 - 02954
CT LTP O	Operator's Well No. Erlewine 8H
DEPARTMENT OF EN	OF WEST VIRGINIA VIRONMENTAL PROTECTION
OFFICE	COF OIL AND GAS
FLUIDS/ CUTTINGS DI	SPOSAL & RECLAMATION PLAN
Operator Name EQT Production Company	OP Code 306686
Watershed (HUC 10) Tributary of Proctor Creek	Quadrangle New Martinsville
Do you anticipate using more than 5,000 bbls of water to con Will a pit be used? Yes No	
If so, please describe anticipated pit waste:	lml
Will a synthetic liner be used in the pit? Yes	No V If so, what ml?
Proposed Disposal Method For Treated Pit Wastes:	No ✓ If so, what ml.?
Land Application	Nit Number 0014 9462 4027
Underground Injection (UIC Perr Reuse (at API Number Various	nii inumber 0014, 6462, 4037
Off Site Disposal (Supply form W	W-9 for disposal location)
Other (Explain	
Will closed loop system be used? If so, describe:	ed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then ansportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizon	ntal)? Air, freshwater, oil based etc See Attached
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, remove	d offsite, etc. Landfill
-If left in pit and plan to solidify what medium will b	e used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attache	ed List
Permittee shall provide written notice to the Office of Oil and West Virginia solid waste facility. The notice shall be provide where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personall application form and all attachments thereto and that have	conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable y examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.
	BECENT
Company Official Title Regional Land Supervisor	BECEIVED Office of Oil and Ga

		<u>OCT - 9</u> 2018
Subscribed and sworn before me this 2 day of Octoper	, 20 <u>18</u> Notary Public	WV Department of Environmental Protection
My commission expires $4 - 7 - 2020$	Notary Public	OFFICIAL BOAL NOTARY PUBLIC STATE OF WEBY VIRGINIA REBECCA L. WANGTREET EOT PRODUCTION COMPANY PO BOX 250
		BRIDGEPORT, WV 28330 My commission expires April 07, 2020

. 1

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

RECEIVED Office of Oil and Gas

OCT - 9 2018

WV Department of Environmental Protection

EQT Production Company

Operator's Well No. Erlewine 8H

ed Revegetation Treatment: Acres Dist	urbed No Additional	Prevegetation pH
Lime 3 Tons/acre of	to correct to pH 6.5	
Fertilizer type Granular 10-20-20		
Fertilizer amount 1/3	lbs/acre	
Mulch 2	Tons/acre	

Seed Mixtures

Т	emporary	Perma	nent
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 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 involved 7.5' topographic sheet.

Plan Approved by:	
Comments:	
· · · · · · · · · · · · · · · · · · ·	
Title: <u>Dil + Gar Inspector</u> Da	te:O
Field Reviewed?	UCT - 9 2018
	WV Department of Environmental Protection





WW-9 ADDENDUM

Drilling Medium Anticipated for This well

- Vertical section of well bore, down to KOP, will be drilled on air and/or a combination of air and drilling soap.
- From KOP through the curve section and horizontal section of well bore will be drilled on a brine-water based mud system.

Additives to be Used While Drilling

- Common additives when air drilling: KCl (CAS No. 1302-78-9 & 14808-60-7), soda ash (CAS No. 497-19-8), shale stabilizer (CAS No 67-48-1 & 7732-1835), drilling soap (CAS No. 111-76-2), air hammer/motor lubricant.
- Common water based additives for mud drilling: NaCl (*CAS No. 7647-14-5*), KCl (*CAS No. 7447-40-7*), barite (*CAS No. 13462-86-7 & 14808-60-7*), starch (*CAS No. 9005-25-8*), PAC (*CAS No. 9004-32-4*), xanthum gum (*CAS No. 11138-66-2*), PHPA (*CAS No. 64742-47-8*), polysaccharide (*CAS No. 11138-66-2*), sulfonated asphaltic material (*CAS No. 269-212-0 & 238-878-4*), aluminum silicate (*CAS No. 37287-16-4*), gilsonite (*CAS No. 12002-43-6*), graphite (*CAS No.14808-60-7 & 7782-42-5*), shale stabilizer (*CAS No. 67-48-1 & 7732-18-5*), fluid loss control polymers (*CAS No. 9004-34-6*), viscosity control polymers (*CAS No. 11138-66-2 & 107-22-2*), soda ash (*CAS No. 497-19-8*), sodium bicarbonate (*CAS No. 144-55-8*), NaOH (*CAS No. 1310-73-2, 7647-14-5, & 7732-18-5*), lime (*CAS No. 1305-62-0*), gypsum (*CAS No.778-18-9*), citric acid (*CAS No. 77-92-9*), biocide (*CAS No. 52-51-7 or 7732-18-5 + 67-56-1 + 141-43-5*), CaCO₃ (*CAS No. 471-34-1*), cellulose fibers (*CAS No. 14808-60-7*), nut plug (*CAS No. 9004-34-6 & 14808-60-7*), cross-linking polymers (*CAS No. 107-22-2 & 11138-66-2*), other LCMs, surfactants (*CAS No. 64-17-5*), ROP enhancer/lubricant (*Cafi Of Oil and Gas 8002-13-9*), beads, corrosion inhibitor (*CAS No. 7732-18-5*), aluminum stearate (*CAS No. 300-92-5*), defoamer (*CAS No. 246-771-9*).

MSDS are available upon request.

DAH 10-2-13

Fn

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

OCT 0 7:013

WV Department

Page Ocuon

WW-9 Addendum





WW-9 ADDENDUM

Drill Cuttings Disposal Method

Closed loop drilling system will be incorporated. No waste pits will be constructed. All
drill cuttings are put through a drier system and hauled to and disposed of at approved
and permitted landfills.

Landfills or Offsite Names and Permit Numbers

Wetzel County Sanitary Landfill Rt. 1, Box 156A New Martinsville, WV 26155 SWF-1021 / WV01909185 Brooke County Sanitary Landfill Colliers, WV 26035 SWF-1013 / WV0109029

DM4 10-2-13

RECEIVED Office of Oil and Gas

OCT - 9 2018

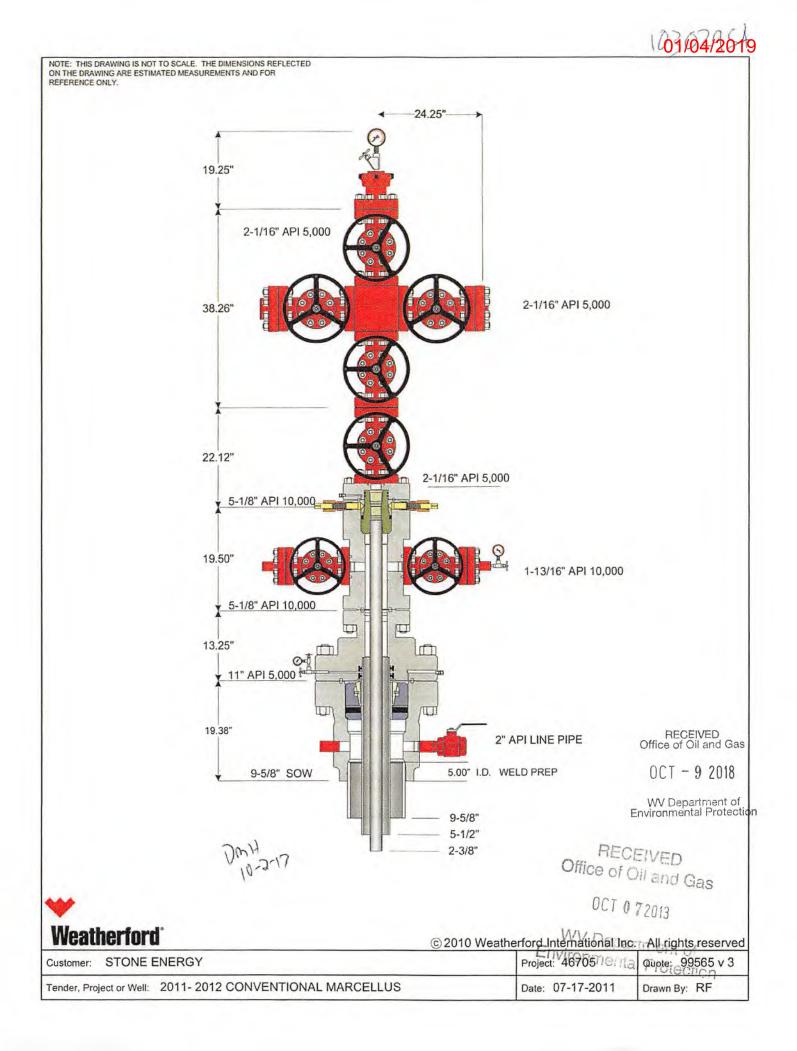
WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

OCT 0 72013

WV Department of Environmental Protection

WW-9 Addendum



EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County/Noble Township Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County/Wheeling Permit # USEPA WV 0014

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office Greene County/Waynesburg Permit # TC-1009

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

BROAD STREET ENERGY LLC

37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

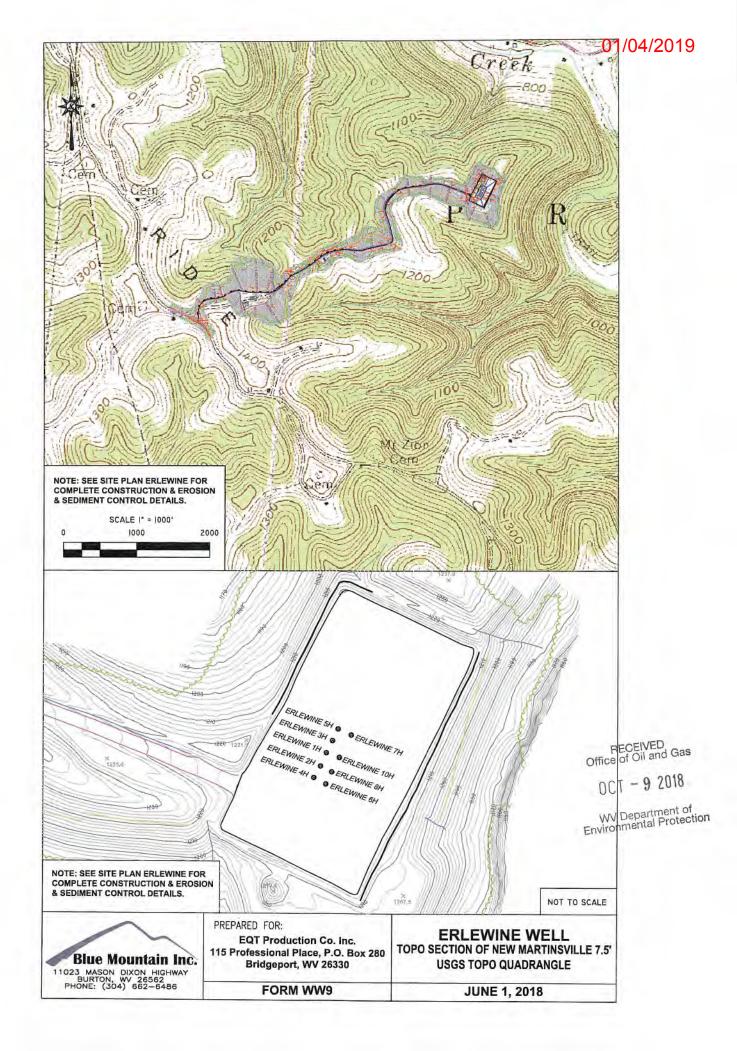
TRIAD ENERGY

P.O. Box 430 Reno, OH 45773 740-516-6021 Well 740-374-2940 Reno Office Jennifer Nobel County/Jackson Township Permit # 4037

KING EXCAVATING CO.

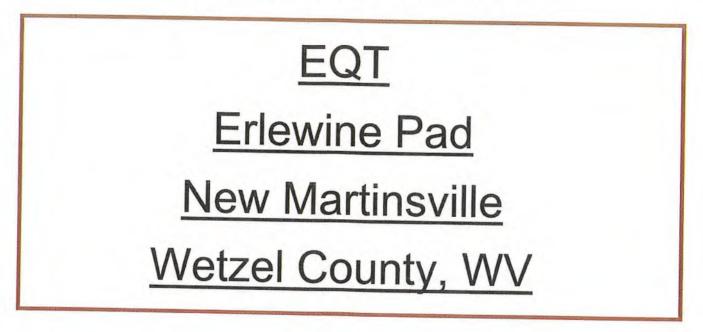
Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

RECEIVED Office of Oil and Gas OCT - 9 2018 WV Department of Environmental Protection





Site Specific Safety and **Environmental Plan**



Erlewine 8H

For Wells:

Date Prepared: February 26, 2018 EQT Production Tegional Land Supervisor <u>10-2-18</u> Date

, WV Oil and Gas Inspector

Dil +6 cs Incpactor

<u>10-418</u> Date

Anticipated Frac Additives Chemical Names and CAS numbers

01/04/2019

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

Dm17 10-4-18

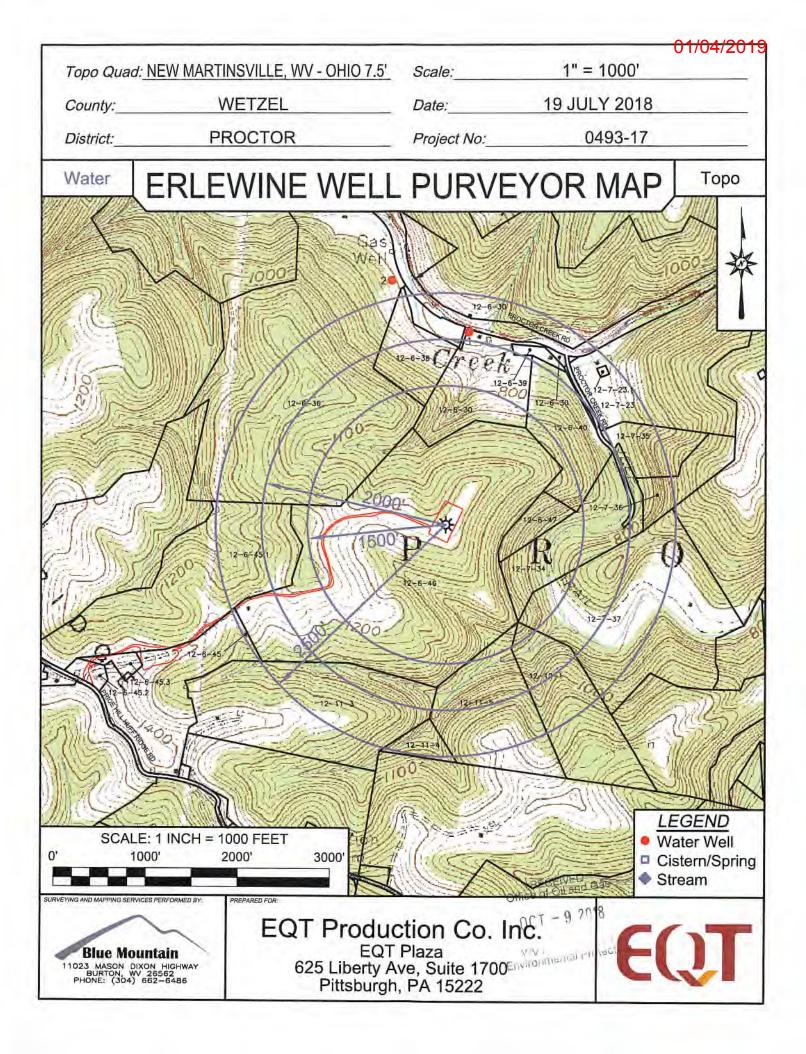




Table 1 – Water Source Identification

EQT Well Pad Name: ERLEWINE Submittal Date: 7-18-2018	
EQT Well Number: ERLEWINE: 1H,2H, 3H, 4H, 5H, 6H, 7H, 8H, 10H	
Survey / Engineering Company: BLUE MOUNTAIN INC.	
Site Number:1 Distance from Gas Well (feet): 2,052+/	
Surface Owner / Occupant: <u>Albert Ray Anderson</u> Address: <u>100 N. Bridge St., Box 25, New Martinsville, WV 26155</u> Phone #: <u>N/A</u> Field Located Date: <u>06-09-2017</u> Owner home during survey (yes/no): <u>N/A</u> Coordinates: <u>39.689185° -80.796298° +/-</u> decimal degrees – NAD 83	 Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : <u>06-10-2017</u> 2 nd : <u>N/A</u> Date Door Hanger Left: <u>N/A</u> Comments: <u>Certified mailer sent 6-5-18; 2nd certified mailer returned undelivered</u>	
Site Number:2 Distance from Gas Well (feet): 2,659+/-	
Surface Owner / Occupant: <u>Richard L. Earlewine</u> Address: <u>Rt. 1 Box 72, Proctor, WV 26055</u> Field Located Date: <u>06-09-2017</u> Owner home during survey (yes/no): <u>N/A</u> Coordinates: <u>39.690677° -80.799289°</u> (decimal degrees – NAD 83)	 Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : <u>06-07-2017</u> 2 nd : <u>6-8-2018</u> Door Hanger Left: <u>N/A</u> Comments: <u>Certified mailer delevered 6-7-17; 2nd certified mailer delivered 6-8-18 yes to water testing.</u>	RECEIVED Office of Oil and OCT - 9 201
Site Number: <u>3</u> Distance from Gas Well (feet): <u>N/A</u>	WV Department Environmental Prot
Surface Owner / Occupant: <u>David Michael Anderson</u> Address: <u>100 N Bridge St., Box 25, New Martinsville, WV 26155</u> Phone #: <u>N/A</u> Field Located Date <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u> Coordinates: <u>N/A</u> (decimal degrees – NAD 83)	 □ Landowner Requested Sampling □ Landowner Decline Sampling ⊠ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : 06-10-2017 2 nd : 6-5-2018 Date Door Hanger Left: <u>N/A</u>	
Comments: Certified mailer sent 6-10-17; Certified mailer sent 6-5-18;2nd certified mailer returned undelive	rd

Site Number: <u>4</u> Distance from Gas Well (feet) <u>N/A</u>	
Surface Owner / Occupant: David Michael Anderson	□ Landowner Requested
Address: 100 N Bridge St., Box 25, New Martinsville, WV 26155 Phone #: N/A	Sampling Landowner Decline
Field Located Date: N/A Owner home during survey (Yes/No):	Sampling Unable to Contact
Coordinates: N/A (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : <u>06-09-2017</u> 2 nd : <u>6-10-17</u> Date Door Hanger Left: <u>06-09-17</u>	
Comments: Certified mailer sent 6-5-18; 3rd certified mailer returned undelivered	
Site Number: <u>5</u> Distance from Gas Well (feet): <u>N/A</u>	·····
Surface Owner / Occupant: David Michael Anderson	Landowner Requested Sampling
Address: <u>100 N Bridge St., Box 25, New Martinsville, WV 26155</u> Phone #: <u>N/A</u>	Landowner Decline
Field Located Date <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>	Sampling Unable to Contact (Further contact attempts to be
Coordinates: N/A (decimal degrees – NAD 83)	made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : <u>06-10-2017</u> 2 nd : <u>6-5-2018</u> Date Door Hanger Left: <u>N/A</u>	
Comments: Certified mailer sent 6-5-18; 2 nd certified mailer returned undelivered	
Site Number: <u>6</u> Distance from Gas Well (feet): <u>N/A</u> Surface Owner / Occupant: <u>Christy Leek & Mary Wilson Est</u>	□ Landowner Requested
Address: <u>195 Pike St, New Martinsville, WV 26155</u> Phone #: <u>N/A</u>	Sampling
Field Located Date <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>	Sampling
Coordinates: <u>N/A</u> (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party
Contact Attempts (Date): 1 st : 06-07-2017 2 nd : 6-8-2018 Date Door Hanger Left: N/A	pre-drill sampling lab) RÉCEIVED
Comments: <u>Certified mailer sent 6-5-18</u> , Delivered 6-8-18. Owner name change since fi	Office of Oil and Gas
	<u> </u>
Site Number: 7 Distance from Gas Well (feet): <u>N/A</u>	WV Department of Environmental Protection
Surface Owner / Occupant: Donald F. & Martha J. Arrick	☑ Landowner Requested
Address: <u>17954 Energy Rd, Proctor, WV 26055</u> Cell Phone #: <u>304-780-9238.</u>	Sampling
Field Located Date: <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>	Sampling Unable to Contact
Coordinates: <u>N/A</u> (decimal degrees – NAD 83)	(Further coritact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : 06-07-2017 2 nd : 6-7-2018 Date Door Hanger Left: N/A	

.

Comments: <u>Certified 6-7-17;2nd Certified mailer sent 6-5-18, was delivered on 6-7-18, spoke with Mr. Arrick 6-15-18 water well</u> would like it tested. No house ori property: Leave message if no answer: First call attempt to contact –left a voice mail on 6-26-18.

Site Number: <u>8</u> Distance from Gas Well (feet): <u>N/A</u> Surface Owner / Occupant: <u>Kevin Goff</u>	□ Landowner Requested	
Address: PO Box 222, New Martinsville, WV 26155-0222 Phone #: 304-771-8800	Sampling	
Field Located Date: <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>	Unable to Contact	
Coordinates: N/A (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)	
Contact Attempts (Date): 1 st : <u>6-20-2017</u> 2 nd : <u>6-11-2018</u> Date Door Hanger Left: <u>N/A</u>		
Comments: Spoke with Mr. Goff 6-20-17. He stated he has 1 well. May not want water tested. Further pho Certified mailer sent 6-5-18, was delivered on 6-11-18, 7-16-18 Returned letter stating doesn't Water tested.	ne calls unreturned.	
Site Number: <u>9</u> Distance from Gas Well (feet): <u>N/A</u>		
Surface Owner / Occupant: Kevin Goff	Landowner Requested	
Address: <u>PQ Box 222, New Martinsville, WV 26155-0222</u> Phone #: <u>304-771-8800</u>	Sampling	
Field Located Date: <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>	Sampling	
Coordinates: <u>N/A</u> (decimal degrees – NAD 83)	 Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) 	
Contact Attempts (Date): 1 st : <u>6-20-17</u> 2 nd : <u>6-11-18</u> Date Door Hanger Left: <u>N/A</u>		
Comments: Spoke with Mr. Goff 6-20-17. He stated he has 1 well. May not want water tested. Further pho	ne calls unretumed	
Certified mailer sent 6-5-18, was delivered on 6-11-18, 7-16-18 Returned letter stating doesn't Water tested.	RECEIVED Office of Oil and Gas	
	OCT - 9 2018	
Site Number:10 Distance from Gas Well (feet): <u>N/A</u>	WV Department of Environmental Protecti	
Surface Owner / Occupant: Rost Energy Company Inc.	Landowner Requested	
Address: <u>PO Box 615, Ligonier, PA 15658-0615</u> Phone #: <u>N/A</u>	Sampling Landowner Decline 	
Field Located Date: <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>	Sampling	
Coordinates: <u>N/A</u> (decimal degrees – NAD 83)	 Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab) 	
Contact Attempts (Date): 1 st : <u>6-6-17</u> 2 nd : <u>6-7-2018</u> Date Door Hanger Left: <u>N/A</u>		

Comments: Certified mailer sent 6-5-18, was delivered on 6-7-18

01/04/2019

Site Number:11 Distance from Gas Well (feet): <u>N/A</u>	
Surface Owner / Occupant: Christy Leek & Mary Wilson Est Address: 195 Pike St. New Martinsville, WV 26155 Phone #: N/A Field Located Date:	 □ Landowner Requested Sampling □ Landowner Decline Sampling ⊠ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Comments: <u>Certified mailer sent 6-5-18, was delivered on 6-8-18</u>	
Site Number:12 Distance from Gas Well (feet): <u>N/A</u>	
Surface Owner / Occupant: Emma L. & John J. Moore Address: 2616 Huff Ridge Rd. New Martinsville, WV 26155 Phone #: N/A Field Located Date:	 Landowner Requested Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Comments: Certified mailer sent 6-5-18, was delivered on 6-7-18.	RECEIVED Office of Oil and Gas
Site Number <u>: 13</u> Distance from Gas Well (feet): <u>N/A</u> Surface Owner / Occupant: <u>Kevin Goff</u>	OCT ~ 9 2018 WV Department of Environmental Protection
Address: PO Box 222, New Martinsville, WV 26155 Phone #: 304-771-8800	Sampling I Landowner Decline Sampling
Field Located Date: N/A Owner home during survey (Yes/No): N/A Coordinates: N/A (decimal degrees – NAD 83)	□ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : <u>6-20-2017</u> 2 nd : <u>6-11-18</u> Date Door Hanger Left: <u>N/A</u>	
Comments: Spoke with Mr. Goff 6-20-17. He stated he has 1 well. May not want water tested. Further phon Certified mailer sent 6-5-18, was delivered on 6-11-18, 7-16-18 Returned letter stating doesnt	ne calls unreturned.

Water tested.

01/04/2019

□ Landowner Requested

(Further contact attempts to be made by EQT's third party pre-drill sampling lab)

□ Landowner Requested

(Further contact attempts to be made by EQT's third party

pre-drill sampling lab)

Landowner Decline Sampling

Unable to Contact

Sampling

Landowner Decline Sampling

Unable to Contact

Sampling

Site Number: 14 _____ Distance from Gas Well (feet): N/A

Surface Owner / Occupant: Linda Anderson

Address: 2641 Huff RDG New Martinsville, WV 26155 Phone #: N/A

Field Located Date: <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u> Coordinates: <u>N/A</u> (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 6-8-17 2nd: 6-8-18 Date Door Hanger Left: N/A

Comments: Certified mailer sent 6-5-18, was delivered on 6-8-18

Site Number: _______ Distance from Gas Well (feet): N/A

Surface Owner / Occupant: EQT Production Company

Address: EQT Plaza, 625 Liberty Ave, Suite 1700, Pittsburgh PA 15222 Phone #: N/A

Field Located Date: <u>N/A</u> Owner home during survey (Yes/No): <u>N/A</u>

Coordinates: <u>N/A</u> (decimal degrees – NAD 83)

Contact Attempts (Date): 1st: 6-8-17 2nd: 6-12-18 Date Door Hanger Left: N/A

Comments: <u>Certified mailer sent 6-5-18</u>, was delivered on 6-12-18. Stone Energy returned letter stating letter needs sent to EQT. 3rd attempt sent 7-12-18.

RECEIVED Office of Oil and Gas

OCT - 9 2018

Parcel 12-6-45

EQT

To Whom It May Concern:

BLUE MOUNTAIN has been contracted by EQT Production Company (EQT) to do some preliminary work for a proposed oil and gas well permit application.

In accordance with West Virginia Code 35-8-15, the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas, requires gas well operators to offer pre-drill water testing for existing water wells or developed springs actually used by the surface owner or water purveyor for consumption by humans or domestic animals, which are located within 1,500 feet of the proposed gas well pad. Please note that the WVDEP requires this water testing offer to a radius of 1,500 feet; however it is EQT's standard practice to conduct the water testing to a radius of 2,500 feet from the proposed gas well pad location.

EQT hereby notifies you (the surface owner and/or water purveyor) of the following:

- · Your right to request sampling and analysis;
- The rebuttable presumption for contamination or deprivation of a fresh water source or supply;
- That refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability;
- Your independent right to sample and analyze any water supply at your own expense;
- That EQT will utilize an independent laboratory to analyze any sample;
- That you 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.

Therefore, EQT offers, at no charge to you, water testing of your water supply(s). Results of these tests will be sent to you upon our receipt from the independent testing laboratory.

Please notify <u>BLUE MOUNTAIN</u> at your earliest convenience if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the well number may be referenced.

Thank you for your cooperation in this matter.

BLUE MOUNTAIN

Burton, WV 26562

Ph: (304) 662-6486

11023 Mason Dixon Highway

RECEIVED Office of Oil and Gas

OCT - 9 2018

Left/sent by: BLUE MOUNTAIN

Date: 6-5-2018

WV Department of

EQT Well Number: ERLEWINE: 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 16PVironmental Protection

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

If you do not feel the need to have your water well, spring, or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined.

and has been declined.	2:	93 GTIL FIL (CD
Name (please print): KEYN GLEF	Address: 6-18-14 Mg	OPICK, ROF, WIV
Signature:	Date: 6-19-10	26145
- State		

To Whom It May Concern:

BLUE MOUNTAIN INC. has been contracted by EQT Production Company (EQT) to do some preliminary work for a proposed oil and gas well permit application.

In accordance with West Virginia Code 35-8-15, the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas, requires gas well operators to offer pre-drill water testing for existing water wells or developed springs actually used by the surface owner or water purveyor for consumption by humans or domestic animals, which are located within 1,500 feet of the proposed gas well pad. Please note that the WVDEP requires this water testing offer to a radius of 1,500 feet; however it is EQT's standard practice to conduct the water testing to a radius of 2,500 feet from the proposed gas well pad location.

EQT hereby notifies you (the surface owner and/or water purveyor) of the following:

- Your right to request sampling and analysis;
- The rebuttable presumption for contamination or deprivation of a fresh water source or supply;
- That refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability;
- Your independent right to sample and analyze any water supply at your own expense;
- That EQT will utilize an independent laboratory to analyze any sample;
- That you 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.

Therefore, EQT offers, at no charge to you, water testing of your water supply(s). Results of these tests will be sent to you upon our receipt from the independent testing laboratory.

Please notify BLUE MOUNTAIN INC. at your earliest convenience if you are interested in having Office of Oil and Gas your potable water tested. Please have this letter with you at the time of contact so that the well number may be referenced.

OCT - 9 2018

WV Department of Environmental Protection

Parcel 12-7-34

Thank you for your cooperation in this matter.

Date: 6-5-2017

Left/sent by: BLUE MOUNTAIN INC.

BLUE MOUNTAIN INC. 11023 Mason Dixon Highway Burton, WV 26562 Ph: (304) 662-6486

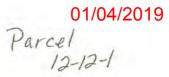
EQT Well Number: ERLEWINE: 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H,

10H

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

If you do not feel the need to have your water well, spring, or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined.

Name (please print):	Address:
Signature:	_ Date: <u>6-11-R</u>



To Whom It May Concern:

FN

BLUE MOUNTAIN has been contracted by EQT Production Company (EQT) to do some preliminary work for a proposed oil and gas well permit application.

In accordance with West Virginia Code 35-8-15, the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas, requires gas well operators to offer pre-drill water testing for existing water wells or developed springs actually used by the surface owner or water purveyor for consumption by humans or domestic animals, which are located within 1,500 feet of the proposed gas well pad. Please note that the WVDEP requires this water testing offer to a radius of 1,500 feet; however it is EQT's standard practice to conduct the water testing to a radius of 2,500 feet from the proposed gas well pad location.

EQT hereby notifies you (the surface owner and/or water purveyor) of the following:

- Your right to request sampling and analysis;
- The rebuttable presumption for contamination or deprivation of a fresh water source or supply;
- That refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability;
- Your independent right to sample and analyze any water supply at your own expense;
- That EQT will utilize an independent laboratory to analyze any sample;
- That you 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.

Therefore, EQT offers, at no charge to you, water testing of your water supply(s). Results of these tests will be sent to you upon our receipt from the independent testing laboratory.

Please notify <u>BLUE MOUNTAIN</u> at your earliest convenience if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the well number may be referenced.

Thank you for your cooperation in this matter.

WV Department of Environmental Protection

OCT - 9 2018

RECEIVED Office of Oil and Gas

BLUE MOUNTAIN 11023 Mason Dixon Highway Burton, WV 26562 Ph: (304) 662-6486

Left/sent by: BLUE MOUNTAIN

EQT Well Number: ERLEWINE: 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 10H

Date: 6-5-2018

*If you do not have a water well or other non-public water source, please make note of it and include your name and address when you return this sheet.

If you do not feel the need to have your water well, spring, or other non-public water source sampled, please sign on the line below and return to the above address. This will signify that a sample has been offered to the surface owner and has been declined.

Name (please print):	Address:	
Signature:	Date: 18-18-11	

E()T

01/04/2019

To Whom It May Concern:

BLUE MOUNTAIN has been contracted by EQT Production Company (EQT) to do some preliminary work for a proposed oil and gas well permit application.

In accordance with West Virginia Code 35-8-15, the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas, requires gas well operators to offer pre-drill water testing for existing water wells or developed springs actually used by the surface owner or water purveyor for consumption by humans or domestic animals, which are located within 1,500 feet of the proposed gas well pad. Please note that the WVDEP requires this water testing offer to a radius of 1,500 feet; however it is EQT's standard practice to conduct the water testing to a radius of 2,500 feet from the proposed gas well pad location.

EQT hereby notifies you (the surface owner and/or water purveyor) of the following:

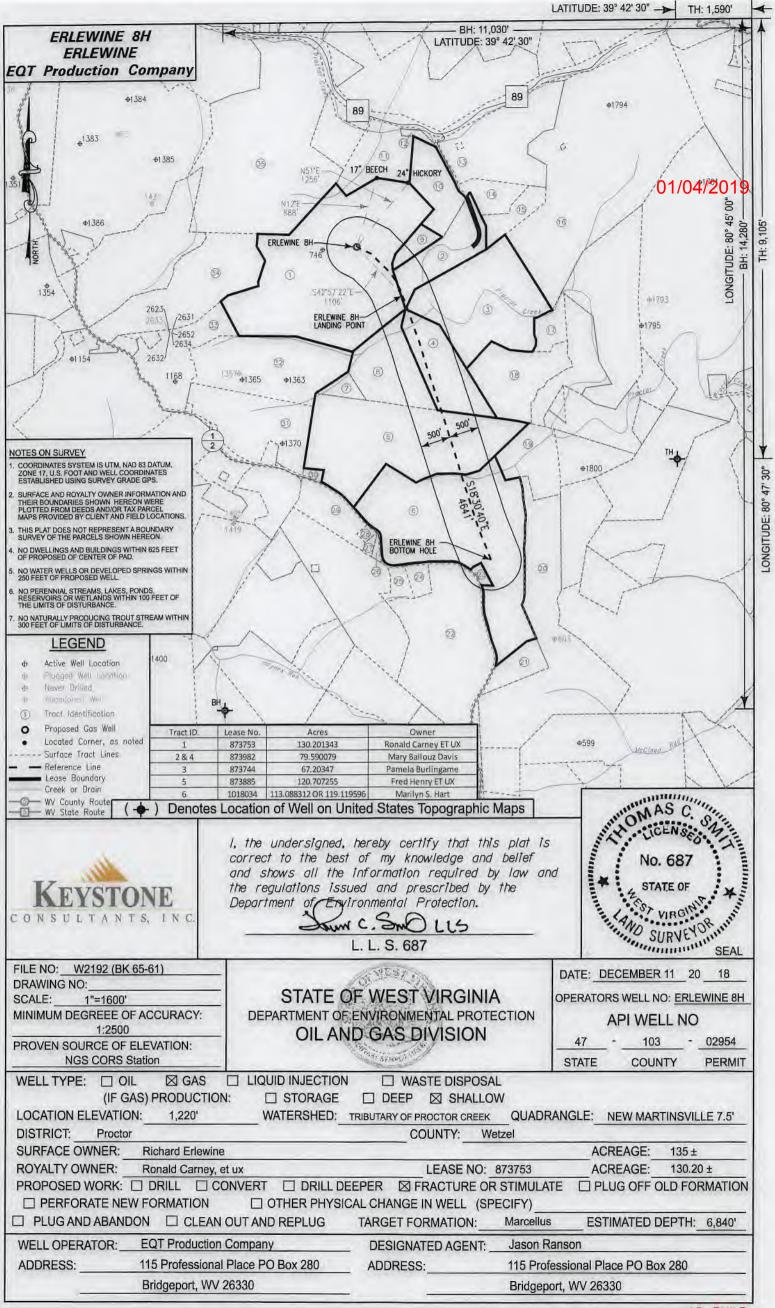
- Your right to request sampling and analysis;
- The rebuttable presumption for contamination or deprivation of a fresh water source or supply;
- That refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability;
- Your independent right to sample and analyze any water supply at your own expense;
- That EQT will utilize an independent laboratory to analyze any sample;
- That you 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.

Therefore, EQT offers, at no charge to you, water testing of your water supply(s). Results of these tests will be sent to you upon our receipt from the independent testing laboratory.

Please notify <u>BLUE MOUNTAIN</u> at your earliest convenience if you are interested in having your potable water tested. Please have this letter with you at the time of contact so that the well number may be referenced.

Thank you for your cooperation in this matter.

BLUE MOUNTAIN	Date:	Office of Oil and Gas
11023 Mason Dixon Highway Burton, WV 26562	Left/sent by: BLUE MOUNTAIN	LICT
Ph: (304) 662-6486		9 2018
EQTW	envision by: <u>BLUE MOUNTAIN</u> IN Number: ERLEWINE: <u>1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 1</u> er non-public water source please make note of it and inclu	WV Department of
*If you do not have a water well or oth your name and address when you re	and here is the second of the	de
If you do not feel the need to have your water the line below and return to the above address and has been declined.	well, spring, or other non-public water source sampled, ple This will signify that a sample has been offered to the su	ase sign on rface owner
Name (please print): <u>Jason Ranson- Director</u> 1700 Pittsburgh PA 15222_	of Drillling, Land Address: EQT Plaza, 625 Liberty Av	re, Suite
Signature:	Date: 2-22-18	



Erlewine Erlewine EQT Production					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ino. County District 16 Wetzel Proctor 14 Wetzel Proctor 15 Wetzel Proctor 16 Wetzel Proctor 17 Wetzel Proctor 18 Wetzel Proctor 19 Wetzel Proctor 10 Wetzel Proctor 11 Wetzel Proctor 12 Wetzel Proctor 14 Wetzel Proctor 15 Wetzel Proctor 16 Wetzel Proctor 17 Wetzel Proctor 18 Wetzel Proctor 19 Wetzel Proctor 10 Wetzel Proctor 11 Wetzel Proctor 12 Wetzel Proctor 13 Wetzel Proctor 14 Wetzel Proctor 15 Wetzel Proctor 16 Wetzel Proctor 16 Wetzel Proctor	Richard L. Erlewine Kevin Goff Rost Energy Company Kevin Goff Emma Louise Wilson Sharon Henthorn Emma Louise Wilson Emma L. & John J. Moore Victor Richard Reed ET AL Kevin S. Goff Albert Ray Anderson Ethyl Anderson EST	Acres 136.18 23.31 64.56 28.69 89.99 110.05 4.24 30.34 5.55 19.13 102.63 1.42 47.68 9.94 9.94 9.8 164.2	746 ⁴ 585'W 573'	ERLEWINE 8H 2500' 01/04/2019
18 12 19 12 1 20 12 1 21 12 4 22 12 4 23 12 1 24 11 2 26 11 N 27 11 1 28 11 2 30 11 1 31 11 1 33 6 4 34 6 44	Wetzel Proctor 2 Wetzel Proctor 2 Wetzel Proctor 2 Wetzel Proctor 24 Wetzel Proctor 28 Wetzel Proctor 29 Wetzel Proctor 20 Wetzel Proctor 5.2 Wetzel Proctor 5.3 Wetzel Proctor 7/A Wetzel Proctor 20 Wetzel Proctor 20 Wetzel Proctor 3 Wetzel Proctor 3 Wetzel Proctor 3 Wetzel Proctor 5.1 Wetzel Proctor 36 Wetzel Proctor	Christy Leek Donald F. & Martha J. Arrick	7.96 31.57 20.65 90,96 10.27 72.43 1.45 4.1 4.3 0.86 1.07 1.06 15.26 1.18 41.66 52.33 29.51 53.9 127.14	NAD 27 1 NAD 27 1 NAD 83 UTA ERLEWINE 81 NAD 27 1 NAD 83 UTA ERLEWINE 8 NAD 27 1 NAD 83 UTA NAD 83 UTA West Virginia 0 based up Plat orientatio	Notes: VINE 8H As-Built coordinates are N: 433,648.000 E: 1,634,887.000 Lat: 39.683375 Long: -80,797332 M N: 4,392,644.145 E: 517,394.965 H As-Built Landing Point coordinates are N: 432,838.200 E: 1,635,641.000 Lat: 39.681181 Long: -80.794612 M N: 4,392,401.275 E: 517,628.790 H As-Built Bottom Hole coordinates are N: 428,439.100 E: 1,637,114.000 Lat: 39.669163 Long: -80.789155 M N: 4,391,068.561 E: 518,099.885 Coordinates system of 1927 (North Zone) pon Differential GPS Measurements on, Corner and well ties are based upon the grid north meridian eferences are based upon the grid north meridian. rdinates are NAD83, Zone 17, Meters.
LEGEND Active Well Location Proposed Gas Well Located Corner, as no Surface Tract Lines Reference Line Lease Boundary Creek or Drain WV County Route WV State Route	oted	ERL ERLE ERLEW	INE PAD LEWINE 5H O O ERLEWINE 7H WINE 3H O O ERLEWINE 7H MINE 1H O O ERLEWINE 10H 4H O ERLEWINE 8H O ERLEWINE 6H	Well Referen	erlewine 8H
CONSULTAND	DNE FS. INC.	correct to the best and shows all the the regulations issu Department of Envi	hereby certify that this of my knowledge and information required by ued and prescribed by to ronmental Protection. C.S.OLLS L.L.S. 687	belief law and	No. 687 STATE OF
FILE NO: <u>W2192 (BK 6</u> DRAWING NO: SCALE: <u>1" = 1000'</u> MINIMUM DEGREE OF <u>1:2500</u> PROVEN SOURCE OF NGS CORS S	ACCURACY:	DEPARTMENT OF	F WEST VIRGINIA ENVIRONMENTAL PROTEC D GAS DIVISION	OPER	
WELL TYPE: OI (IF G LOCATION ELEVATIO DISTRICT: Proctor SURFACE OWNER: ROYALTY OWNER: PROPOSED WORK: PERFORATE NEY PLUG AND ABANE	AS) PRODUCTIO	WATERSHED:	DEEP SHALLOW TRIBUTARY OF PROCTOR CREEK COUNTY: Wet LEASE NO: 8	/ _QUADRANGL zel 73753 STIMULATE	E: NEW MARTINSVILLE 7.5' ACREAGE: 135 ± ACREAGE: 130.20 ± PLUG OFF OLD FORMATION ESTIMATED DEPTH: 6,840'
WELL OPERATOR: ADDRESS:	EQT Production	n Company al Place PO Box 280	DESIGNATED AGENT:	Jason Ranson	al Place PO Box 280

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

RECEIVED Office of Oil and Gas

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

OCT - 9 2018

WV Department of

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

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

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

Well Operator:	EQT Production Company
By:	Erin Spine
Its:	Regional Land Supervisor

01/04/2019

WW-6A1 attachment

Erlewine 8H

ease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
873753	Ronald Carney, et ux, et al (current royalty or	wner)	**	
	Richard L. Erlewine (original lessor)	Stone Energy Corporation		134A/131
	Stone Energy Corporation	EQT Production Company		183A/305
<u>873982</u>	Robert L. Anderson (original lessor)	Stone Energy Corporation		145A/898
	Stone Energy Corporation	EQT Production Company		183A/305
			**	
<u>873744</u>	Pamela Burlingame (original lessor)	Stone Energy Corporation		126A/341
	Stone Energy Corporation	EQT Production Company		183A/305
			**	
873982	Robert L. Anderson (original lessor)	Stone Energy Corporation		145A/898
	Stone Energy Corporation	EQT Production Company		183A/305
873885	Fred Henry, et al (current royalty owner)		**	
	Fred Henry (original lessor)	Stone Energy Corporation		132A/392
	Stone Energy Corporation	EQT Production Company		183A/305
<u>1018034</u>	Marilyn S Hart, et al	Stone Energy Corporation	**	119A/347
	Stone Energy Corporation	EQT Production Company		183A/305

** Per West Virginia Code Section 22-6-8.

RECEIVED Office of Oil and Gas

0CT **- 9 2018**

WW-6A1 (Attachment)

Operator's Well Number:

Erlewine #8H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel	Code
Ronald Carney, et ux	Stone Energy Corporation	1/8	123A/459	12-6-46	Α
Ralph Douglas Huff, et ux	Stone Energy Corporation	1/8	123A/461	12-6-46	А
Nita L. Adkins, et vir	Stone Energy Corporation	1/8	123A/463	12-6-46	А
Judy Donato	Stone Energy Corporation	1/8	123A/467	12-6-46	A
Charlene Wade, et vir	Stone Energy Corporation	1/8	123A/471	12-6-46	А
Doreen Judge	Stone Energy Corporation	1/8	123A/473	12-6-46	А
Gerald Judge	Stone Energy Corporation	1/8	123A/475	12-6-46	А
Chesapeake	Stone Energy Corporation	1/8	350/1	12-6-46	А
Joyce Ellen Weltz	Stone Energy Corporation	1/8	123A/465	12-6-46	A
Rebecca J. Lough	Stone Energy Corporation	1/8	123A/469	12-6-46	А
Thomas E Miller	Stone Energy Corporation	1/8	132A/366	12-6-46	A
Shiben	Stone Energy Corporation	1/8	294/442	12-6-47	В
Chespeake	Stone Energy Corporation	1/8	411/733	12-6-47	В
Seigler Family Trust	Stone Energy Corporation	1/8	57/324	12-6-47	В
Mary Davis Ballouz	Stone Energy Corporation	1/8	341/25	12-6-47	В
Deborah Rein	Stone Energy Corporation	1/8	57/324	12-6-47	В
Rosalyn A Metzger	Stone Energy Corporation	1/8	57/324	12-6-47	В
Shiben	Stone Energy Corporation	1/8	294/442	12-12-1	D
Chespeake	Stone Energy Corporation	1/8	411/733	12-12-1	D
Seigler Family Trust	Stone Energy Corporation	1/8	57/324	12-12-1	D
Mary Davis Ballouz	Stone Energy Corporation	1/8	341/25	12-12-1	D
Deborah Rein	Stone Energy Corporation	1/8	57/324	12-12-1	D
Rosalyn A Metzger	Stone Energy Corporation	1/8	57/324	12-12-1	D
Fred Henry et ux	Stone Energy Corporation	1/8	132A/392	12-11-12	E
Bayer Materials Science LLC	Stone Energy Corporation	1/8	127A/713	12-11-12	E
Ralph Douglas Huff	Stone Energy Corporation	1/8	139A/892	12-11-12	E
Joyce Ellen Weltz	Stone Energy Corporation	1/8	123A/465	12-11-12	E
Brian R. Hoskins	Stone Energy Corporation	1/8	139A/602	12-11-12	E
Richard Highland Smith	Stone Energy Corporation	1/8	135A/409	12-11-12	E
Dwight Stanley Smith	Stone Energy Corporation	1/8	135A/425	12-11-12	E
Alan Lee Smith	Stone Energy Corporation	1/8	137A/206	12-11-12	E
Judith A Krueger	Stone Energy Corporation	1/8	306/347	12-11-12	E

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:

RECEIVED Office of Dir me Gas

067 0 72813

Well Operator Stone Energy Corporation

WV Depertment of Environmental Prime tion By Title Land Coordinator

Operator's Well Number: Erlewine #8H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Map/Parcel	Code
Alberta Nichols	Stone Energy Corporation	1/8	137A/212	12-11-12	E
Florence E Straub	Stone Energy Corporation	1/8	135A/393	12-11-12	E
Gladys V. Anthony	Stone Energy Corporation	1/8	137A/222	12-11-12	E
Emma J Rufener	Stone Energy Corporation	1/8	137A/374	12-11-12	E
Dale J Huggins	Stone Energy Corporation	1/8	137A/216	12-11-12	E
Rhonda Lynn White	Stone Energy Corporation	1/8	137A/218	12-11-12	E
Mark Scott Hoskins	Stone Energy Corporation	1/8	137A/220	12-11-12	E
Beverly Kay Campbell	Stone Energy Corporation	1/8	119A/351	12-12-27.1	F
BRC App Minerals	Stone Energy Corporation	1/8	102A/505	12-12-27.1	F
Wanda R. Springston	Stone Energy Corporation	1/8	119A/353	12-12-27.1	F
Joyce Meeden	Stone Energy Corporation	1/8	40/9	12-12-27.1	F
Marilyn S. Hart	Stone Energy Corporation	1/8	119A/347	12-12-27.1	F
Janet Lea Reeves	Stone Energy Corporation	1/8	119A/349	12-12-27.1	F
Highland Richard Smith	Stone Energy Corporation	1/8	135A/409	12-11-5	С
Stanley Dwight Smith	Stone Energy Corporation	1/8	135A/425	12-11-5	С
Alan Lee Smith	Stone Energy Corporation	1/8	137A/206	12-11-5	C
Gladys V Anthony	Stone Energy Corporation	1/8	137A/222	12-11-5	С
Florence E Staub	Stone Energy Corporation	1/8	135A/393	12-11-5	С
Emma J Rufener	Stone Energy Corporation	1/8	137A/374	12-11-5	С
Ralph D Huff	Stone Energy Corporation	1/8	139A/892	12-11-5	С
Joyce Ellen Cokeley (Weltz)	Stone Energy Corporation	1/8	123A/465	12-11-5	С
Dale Huggins	Stone Energy Corporation	1/8	137A/216	12-11-5	С
Rhonda L White	Stone Energy Corporation	1/8	137A/218	12-11-5	С
Brain Hoskins	Stone Energy Corporation	1/8	139A/602	12-11-5	С
Craig Hoskins	Stone Energy Corporation	1/8	137A/222	12-11-5	С
Mark S Hoskins	Stone Energy Corporation	1/8	137A/220	12-11-5	С
Alberta R Nichols	Stone Energy Corporation	1/8	137A/212	12-11-5	С

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:

Well Operator Stone Energy Corporation

RECEIVED 00 Office of OH and Gas 1 By Title Land Coordinator

OCT 0 7:013

WV Dawn in end of Environmenter Protection

RECEIVED Office of Oil and Gas OCT - 9 2018

01/04/2019



September 26, 2018

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

Re: Erlewine well pad, well numbers Erlewine 8H and Erlewine 10H Proctor District, Wetzel County

Dear Mr. Brewer,

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, 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,

Erin Spine " Regional Land Supervisor

Office of Oil and Gas

OCT - 9 2018

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

Date of Notice Certification: 0-2-18

API No. 47- 103	_ 02954
Operator's Well No.	Erlewine 8H
Well Pad Name: Er	lewine

Wetzel County Route 1/2

Richard Erlewine

517,395

4.392.644

Easting:

Northing:

Notice has been given:

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

UTM NAD 83

Public Road Access:

Generally used farm name:

State:	wv
County:	Wetzel
District:	Proctor
Quadrangle:	New Martinsville
Watershed:	Tributary of Proctor Creek

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 by the applicant.

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	perator has attached proof to this Notice Certification ed parties with the following:	OOG OFFICE USE ONLY
□ I. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED CEIVED
\Box 2. NOTICE OF ENTRY FOR PLAT SURV	/EY or 🔳 NO PLAT SURVEY WAS CONDUCTED	\square RECEIVED CI = 0
■ 3. NOTICE OF INTENT TO DRILL or	□ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	NOT REQUIRED / Pepartment of otectio
	□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION		RECEIVED
5. PUBLIC NOTICE		RECEIVED
■ 6. NOTICE OF APPLICATION		RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

THEREFORE, I _______, 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:	2400 Ansys Drive Suite 200 Canonsburg PA 15317
By:	Erin Spine		
Its:	Regional Land Supervisor	Facsimile:	304-848-0041
Telephone:	304-848-0035	Email:	espine@eqt.com
	NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L, WANSTREET EGT PRODUCTION COMPANY EGT PRODUCTION COMPANY	cribed and swo	orn before me this 2 day of <u>October 2018</u> . 2 Rubnheet Notary Public xpires 4-7-2020

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas OCT - 9 2018 WV Department of Environmental Protection

WW-6A (9-13)

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

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

	e of Notice: 103	1 <u>8</u> D	ate Permit Applica	tion Fi	led: 10/3/18
7	PERMIT FOR AN WELL WORK	IY			OF APPROVAL FOR THE ON OF AN IMPOUNDMENT OR PIT
Deli	very method pursu	iant t	o West Virginia C	ode§2	2-6A-10(b)
	PERSONAL SERVICE		REGISTERED MAIL		METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
certi regi:	ficate of approval for stered mail or by any	r the c meth	construction of an im od of delivery that re	poundm quires a	ling date of the application, the applicant for a permit for any well work or for a tent or pit as required by this article shall deliver, by personal service or by receipt or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record

on, the erosion and blat 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	e 🗹 Well Plat Notice is hereby provided to:	Office of Oil and Gas
SURFACE OWNER(s)	COAL OWNER OR LESSEE	Dealer Gas
Name: See Attached	Name: See Attached	OCT - 9 2018
Address:	Address:	
	E	WV Department of nvironmental Protection
Name:	COAL OPERATOR	minental Protection
Address:	Name:	
	Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance)		
Name: See Attached	SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	
	Name: See Attached	
Name:	Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS ST	ORAGE FIELD
☑ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name: See Attached	Address:	
Address:		
	*Please attach additional forms if necessary	

Surface Owner:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Surface Owner Access Road:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

EQT Production Company 625 Liberty Ave, Suite 1700 Pittsburgh PA 15222

Surface Owner Pits/ Impoundment/Potentia

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy Leek (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

Coal Owners:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

CNX RCPC LLC 1000 Consol Energy Dr Canonsburg PA 15317

Water Purveyors:

N/A

4710302954

RECEIVED Office of Oil and Gas

OCT - 9 2018

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 Oil and Gas Additional information related to horizontal drilling may be obtained from the Scenerary, at the www.dep.wygop/oil-Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wygop/oil-9 2018

Well Location Restrictions

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

WW-6A (8-13)

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written 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 OCT - 9 2018 WV Department of Environmental Protection

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

WW-6A (8-13)

API NO. 47- 103	- 02954	
OPERATOR WE	ELL NO.	ErteQine/804/2019
Well Pad Name:	Erlewine	

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be childred to the section of the written comments sublimited contents of the permit decision and a list the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list NECEIVED Office of Oil and Gas (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

DCT - 9 2018

Way Department of

WW-6A (8-13)

API NO. 47- 103	- 02954
OPERATOR WE	LL NO. Erlevine 1/04/2019
Well Pad Name:	

Notice is hereby given by:	
Well Operator: EQT Production Com	pany
Telephone: 304-848-0035	
Email: espine@eqt.com	

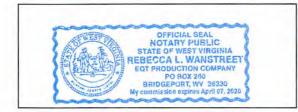
57	SI	
Li	di	
	7	

Address: 2400 Ansys Drive Suite 200 Canonsburg PA 15317

Facsimile: 304-848-0041

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 <u>depprivacyofficer@wv.gov</u>.



Subscribed and sworn before me this 2 day of 1	toper 2018.
Delecca Lubantheet	Notary Public
My Commission Expires 4-7-2020	

RECEIVED Office of Oil and Gas

OCT - 9 2018

				01/04/2019
Topo Qua	ad: NEW MARTINSVILLE, WV - OHIO 7.5'	Scale:	1" = 1000'	
County:	WETZEL	Date:	19 JULY 2018	
District:	PROCTOR	Project No:	0493-17	
Water	ERLEWINE WELL	PURVE	YOR MAP	Торо
	the the good	NV		
	Vien Vien	R		60 茶
A		12-6-30		
你心下		2-0-30 Cr 0 0 1	A STATE OF THE STA	Z
		2-6-30 Creek	5-39 00 12-7-23.	1 CO
	02-038	12+6-30	12-6-30 9 12-7-23	
				121
PS	2000		12-7-36	
	12-8-451	p (R	A C
	A 200 CON	12-6-48	12-17-34-1	
6	- Deco		12=-37	1 Yes
A	1	2 /	Sector Contraction	
	12-17-3	12=11-5		Sall Contraction
RANG	1003	12-11=1	- V - T n	Pla
		00	- A-	\Box
		Roser 24	the second se	GEND
0'	ALE: 1 INCH = 1000 FEET 1000' 2000' 3000'		Cis	ater Well stern/Spring
SURVEYING AND MAPPING SI			NCE OF OFFERE	eam
	EQT Produc	tion Co. I	hč. ^{- 9 2018}	T
TIO23 MASON BURTON, PHONE: (30)	ountainEQ1DIXON HIGHWAY625 Liberty AWV 26562625 Liberty A4) 662-6486Pittsburgh	ve, Suite 1700 , PA 15222	Mc. 9 2010 WV Department of ironmental Protection	

Surface Owner:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Surface Owner Access Road:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

EQT Production Company 625 Liberty Ave, Suite 1700 Pittsburgh PA 15222

Surface Owner Pits/ Impoundment/Potentia

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road / Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy Leek (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

Coal Owners:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

CNX RCPC LLC 1000 Consol Energy Dr./ Canonsburg PA 15317

Water Purveyors:

N/A

RECEIVED Office of Oil and Gas

OCT - 9 2018

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated 1. EQT Production Company provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form , including the erosion and sediment control plan, if WW-6A and attachments consisting of pages one (1) through required, and the well plat, all for proposed well work on the tract of land as follows:

State:	wv	LITE AND DO	Easting:	517,395	
County:	Wetzel	UTM NAD 83	Northing:	4,392,644	Office of OH
District:	Proctor	Public Road Acc	cess:	Wetzel County Route 1/2	Office of Oil and Gas
Quadrangle:	New Martinsville	Generally used f	farm name:	Richard Erlewine	0CT - 9.2010
Watershed:	Tributary of Proctor Creek				0 2010

WV Department of

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permittion of issued on those materials.

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON
□ SURFACE OWNER	Signature:
SURFACE OWNER (Road and/or Other Disturbance)	Print Name: Date:
□ SURFACE OWNER (Impoundments/Pits)	FOR EXECUTION BY A CORPORATION, ETC.
□ COAL OWNER OR LESSEE	Company: EQT Production Company
□ COAL OPERATOR	By: Todd Klaner Its: Regional Land Manager
□ WATER PURVEYOR	Signature: Ver
□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: 10/03/2018

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.

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: 09/15/2018 Date Permit Application Filed: 09/25/2018

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

HAND	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	Name: See Attached
Address:	Address:
<u> </u>	

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:	W	LITMANAD 92	Easting:	517,395	OF RECEN
County:	Wetzel	UTM NAD 83	Northing:	4,392,644	Office of Oil and Gas
District:	Proctor	Public Road Acc	cess:	Wetzel County Route 1/2	nor Gas
Quadrangle:	New Martinsville	Generally used f	farm name:	Richard Erlewine	9 2018
Watershed:	Tributary of Proctor Creek				~ W(D
This Notice	Shall Include:				WV Department of Environmental Protection

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator:	EQT Production Company	Authorized Representative:	Erin Spine
Address:	2400 Ansys Drive Suite 200 Canonsburg PA 15317	Address:	2400 Ansys Drive Suite 200 Canonsburg PA 15317
Telephone:	304-848-0035	Telephone:	304-848-0035
Email:	espine@eqt.com	Email:	espine@eqt.com
Facsimile:	304-848-0041	Facsimile:	304-848-0041

Oil and Gas Privacy Notice:

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

Surface Owner:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Surface Owner Access Road:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

EQT Production Company 625 Liberty Ave, Suite 1700 Pittsburgh PA 15222 Surface Owner Pits/ Impoundment/Potentia

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson / 3453 Huff Ridge Road New Martinsville, WV/26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy Leek (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

Office of Oil and Gas OCT - 9 2018 Environmental Protection

Operator Well No. Erlewine 8H 01/04/2019

4/10 0295 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL WAIVER

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.

Surface Owner Waiver:

I, EQT Production Company , hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	WV	UTM NAD 83	Easting:	517,395
County:	Wetzel	UTIM NAD 83	Northing:	4,392,644
District:	Proctor	Public Road Acc	cess:	Wetzel County Route 1/2
Quadrangle:	New Martinsville	Generally used t	farm name:	Richard Erlewine
Watershed:	Tributary of Proctor Creek			
Name: Todd K	laner, Regional Land Manager	Signature:	YP	ee]
Address: 625	Liberty Ave Suite 1700			
Pittsburgh PA 15	222	Date: 10/03/	2018	

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 <u>depprivacyofficer@wv.gov</u>.

Office of Oil and Gas OCT - 9 2018 WV Department of Environmental Protection

WW-6A5 (1/12)

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: 10 310 Date Permit Application Filed: 0318

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: See Altached	Name: See Attached
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:	WV	LITM NAD 02	Easting:	517,395	
County:	Wetzel	UTM NAD 83	Northing:	4,392,644	
District:	Proctor	Public Road Acc	ess:	Wetzel County Route 1/2	
Quadrangle:	New Martinsville	Generally used f	arm name:	Richard Erlewine	
Watershed:	Tributary of Proctor Creek				

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. Office of OUVED

Well Operator:	EQT Production Company	Address:	2400 Ansys Drive Suite 200 Canonsburg PA 15317	ACT
Telephone:	304-848-0035			9 2010
Email:	espine@eqt.com	Facsimile:	304-848-0041	Envin Denau
Oil and Gas Pr	ivacy Notice:			normental Protection

Oil and Gas Privacy Notice:

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

Surface Owner:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Surface Owner Access Road:

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD / PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

EQT Production Company 625 Liberty Ave, Suite 1700 Pittsburgh PA 15222

Surface Owner Pits/ Impoundment/Potentia

RICHARD L ERLEWINE 1834 PROCTOR CREEK RD PROCTOR WV 26055-1449

Don Arrick 17954 Energy Road Proctor, WV 26055

Emily Diane Wilson 3453 Huff Ridge Road New Martinsville, WV 26155

Linda Stoneking 6139 American Ridge Road New Martinsville, WV 26155

Christy Leek (Leek) Wilson 2997 Huff Ridge Road New Martinsville, WV 26155

Linda (Anderson) Seagrave 2641 Huff Ridge New Martinsville, WV 26155

Office of Oil and Gas

OCT - 9 2018

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*. That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

[, EQT Production Company	, hereby state that I have read the Instruc	tions to Persons Named on Page WW-6A and the associated
provisions listed above, a	nd that I have received copies of a Notice of a	Application, an Application for a Well Work Permit on Form
	consisting of pages one (1) through	, including the erosion and sediment control plan, if
required, and the well plat	all for proposed well work on the tract of land	l as follows:

		ing: 517,395
County: Wetzel	UTM NAD 83	hing: 4,392,644
District: Proctor	Public Road Access:	Wetzel County Route 1/2
Quadrangle: New Martinsville	Generally used farm n	ame: Richard Erlewine Office of CEIVE
Watershed: Tributary of Proctor Creek		ame: Richard Erlewine Office of Oil an.
I further state that I have no objection issued on those materials.	the planned work described in these material	

*Please check the box that applies	FOR EXECUTION BY A NATURAL PERSON	
SURFACE OWNERSURFACE OWNER (Road and/or Other Disturbance)	Signature: Print Name: Date:	
 SURFACE OWNER (Impoundments/Pits) COAL OWNER OR LESSEE 	FOR EXECUTION BY A CORPORATION, ETC.	
COAL OWNER OR LESSEE COAL OPERATOR	Company: EQT Production Company By: Todd Klaner Its: Regional Land Manager	
□ WATER PURVEYOR	Signature: Jean	
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Date: 10/03/2018	

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 <u>depprivacyofficer@wv.gov</u>.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

September 13, 2018

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 Erlewine NMA13 Pad, Wetzel County Erlewine 1H Erlewine 2H Erlewine 3H Erlewine 4H Erlewine 5H Erlewine 6H Erlewine 7H Erlewine 8H Erlewine 9H Erlewine 10H

Dear Mr. Martin,

Jim Justice

Governor

This well site will be accessed from an encroachment permit #06-2011-0131 transferred to EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 1/2 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Office of Oil and Gas Office of Oil and Gas OCT - 9 2018 WV Department of Environmental Protection

Very Truly Yours,

ang K. Clayton

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

Cc: Nick Bungardner EQT Production Company CH, OM, D-6 File

Anticipated Frac Additives Chemical Names and CAS numbers

01/04/2019

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



DIEFFENBAUCH & HRITZ, LLC

DMA 11/27/18

1

