

### west virginia department of environmental protection

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

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

Tuesday, July 14, 2020 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for SIZEMORE 13H

47-103-03350-00-00

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: SIZEMORE 13H

Farm Name: ANTHONY W. & KIMBERLY A

U.S. WELL NUMBER: 47-103-03350-00-00

Horizontal 6A New Drill Date Issued: 7/14/2020

API Number:	

### **PERMIT CONDITIONS**

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

### **CONDITIONS**

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

API Number:	

### **PERMIT CONDITIONS**

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47	
OPERATOR WELL	NO. 13H
Well Pad Name:	Sizemore

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

1) Well Operat	or: EQT P	roductio	n Compar	าy	306686	Wetzel	Center	Littleton
-					Operator ID	County	District	Quadrangle
2) Operator's V	Vell Numbe	r: <u>13H</u>			Well Pad	Name: Sizem	ore	
3) Farm Name/	Surface Ow	ner: Ant	hony W. S	ize	more Public Roa	d Access: CR	7/16	
4) Elevation, cu	urrent groun	nd: 114	18' (built)	Ele	evation, proposed j	post-construction	on: 1148'	(built)
5) Well Type	(a) Gas	X	Oil		Unde	erground Storag	ge	
	Other							
	(b)If Gas	Shallov			Deep			
6) Existing Pad	l· Ves or No	Horizo	ntal X			Z	MH 51	/28/20
,	rget Format	tion(s), D	epth(s), Ar	ntici	pated Thickness a	=		RECEIVED Office of Oil and Gas
8) Proposed To			7,335'					JUN 0 2 2020
9) Formation a		•		lus			Fo	WV Department of vironmental Protection
10) Proposed T		•		''				
11) Proposed F	Horizontal L	eg Lengt	h: 3,286'					
12) Approxima	ate Fresh Wa	ater Strat	a Depths:		176', 682', 717'			
13) Method to 14) Approxima			•		Offset Wells 47-10	3-02120; 47-10	03-02121;	47-103-02580
15) Approxima	ate Coal Sea	m Depth	s: <u>527'-53</u>	1';	754.5'-761', 888'-8	391'		
					ne, karst, other):			
17) Does Propo directly overly					ns Yes	No	X	
(a) If Yes, pro	ovide Mine	Info: N	ame:					
•			epth:					
		S	eam:					
		C	wner:					

WW-6B (04/15) API NO. 47-\_\_\_\_-OPERATOR WELL NO. 13H Well Pad Name: Sizemore

### 18)

### **CASING AND TUBING PROGRAM**

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1041	1041	911 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2463	2463	958 ft^3 / CTS
Production	5 1/2	New	P-110	20	11287	11287	500' above intermediate casing
Tubing							
Liners							

DMH 5/28/20

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.395	3950	3160	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.098
Tubing							
Liners							

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**PACKERS** 

Kind:		
Sizes:		
Depths Set:		

4710303350

API NO. 47-

OPERATOR WELL NO. 13H

Well Pad Name: Sizemore

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

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

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DMH 5/28/20

JUN 0 2 2020

WV Department of Environmental Protection

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A Site built
- 22) Area to be disturbed for well pad only, less access road (acres): N/A Site built
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

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

Conductor: Class A no additives

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

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

Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

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

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

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

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

### Sizemore Measurement to Groundwater

### Map Key

SB423 Wellhead Protection Area

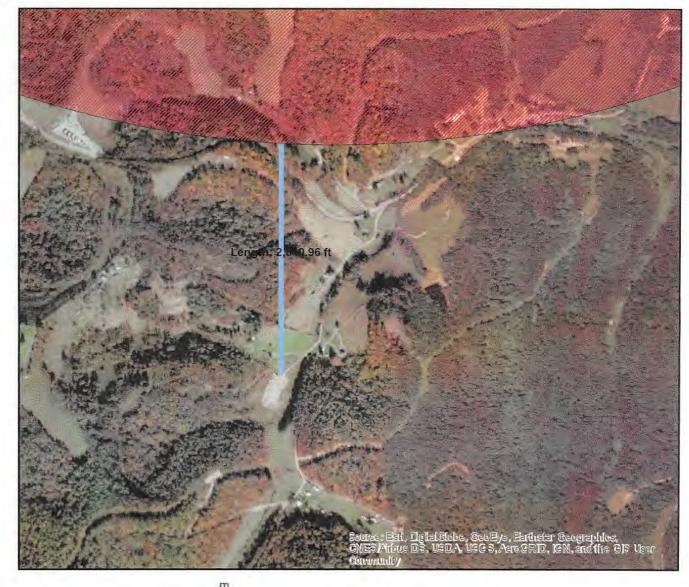
Groundwater Intake (non-public water supply)

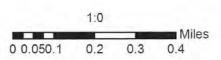
Surface Water Intake (non-public water supply)

Groundwater Intake (public water supply)

Surface Water Intake (public water supply)







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#### Disclaimer

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the appropriate usage of the information.

WW-6RW (1-12) BOP ACQUISITION 2547 WASHINGTON ROAD BLDG. 700 - SUITE 720 UPPER SAINT CLAIR PA 15241-2557

API NO. 47-			
OPERATOR WEI	L NO.	13H	
Well Pad Name	Sizemo	ore	

### STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

### WELL LOCATION RESTRICTION WAIVER RECEIVED Gas

	rator, EQT Production Company	s applying for a permit from the State	e of West Virginia to	conduct oil of gas ve 12020			
work. Please	be advised that well work permits are v	alid for twenty-four (24) months.		WV Desartment of			
Well Location	n Restrictions			Environmental Protect			
any existing valocated within larger used to dwellings or a provided in searticle was problem with the conditions the include insuration of the conditions the conditions the conditions the conditions the condition of the c	Vest Virginia Code § 22-6A-12(a), We water well or developed spring used for six hundred twenty-five feet of an occ house or shelter dairy cattle or poult agricultural buildings that existed on the ction ten of this article or a notice of in ovided, whichever occurs first, and to an asent of the surface owner transmitted ounty commission for the county in we secretary from these distance restricts be employed during well site constructed by the employed during well site construction be employed during well site construction, as well as the condition of the surface of the safet nee, bonding and indemnification, as well as the condition of the county in the well plat, all for proposed well work west virginia	re human or domestic animal consumption of the dwelling structure, or a building try husbandry. This limitation is agreed that a notice to the surface owner tent to drill a horizontal well as proving dwelling under construction prior to the department and recorded in which such property is located. Further that it is not to the property is located. Further than the property is located for the department and recorded in which such property is located. Further than the property is located for the property and protection of affected persons a tell as technical requirements.  WAIVER  WE read the Instructions to Persons National Structure of Application, an Application, including the	inption. The center of ing two thousand five opplicable to those we of planned entry for sided in subsection (b) to that date. This lin the real property recommender, the well open identifies the sufficivariance, if granted, so and property. The terminate on Page WW-6.6.	well pads may not be hundred square feet or alls, developed springs, surveying or staking as a section sixteen of this nitation may be waived ords maintained by the rator may be granted a sent measures, facilities shall include terms and ms and conditions may be a sent measures. A and the associated ork Permitten Form			
County:	Wetzel	UTM NAD 83 Northing:					
District:	Center	Public Road Access:	Anthem Rd. (County Route	7/16)			
Quadrangle:	Littleton	Generally used farm name:	Sizemore	8			
Watershed:	Sugar Run						
I further state	that I have no objection to the planned	work described in these materials, and	d I have no objection	to a permit being			
WELL SITE *Please check  EXISTIN  DEVELO  DWELL	NG WATER WELLS OPED SPRINGS	FOR EXECU Signature: Print Name: Ar Date: FOR EXECU Company: By: Its: Signature:	TION BY AONATUR	RAL PERSON  Lety A. Sizemore			
Wall Operator	EQT Production Company	Date:	3				
By: John Zavatcha		Signature Telephone: 724-746-9073	1				
Its: Project Specia		Telephone 15 to 15					
OiEand Gas Pr	Official Seal Notary Public, State Of West Virginia Robin A. Bragg First Exchange Bank PO Box 780 Hundred, WV 26575	Subscribed and sworn before me this	11 day of 100 099	Notary Public			

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

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**EQT Production** 

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: Sizemore

County: Wetzel

June 1, 2020

### **Purpose**

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Sizemore pad: 3H, 5H, 7H, 9H, 11H, 13H, 15H and 17H.

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

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

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

### 1. Communications with Well Operators

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

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

JUN 0.2 2020

EQT will recommend to these operators at a minimum to:

WV Department of Environmental Protection

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

### 2. Reporting

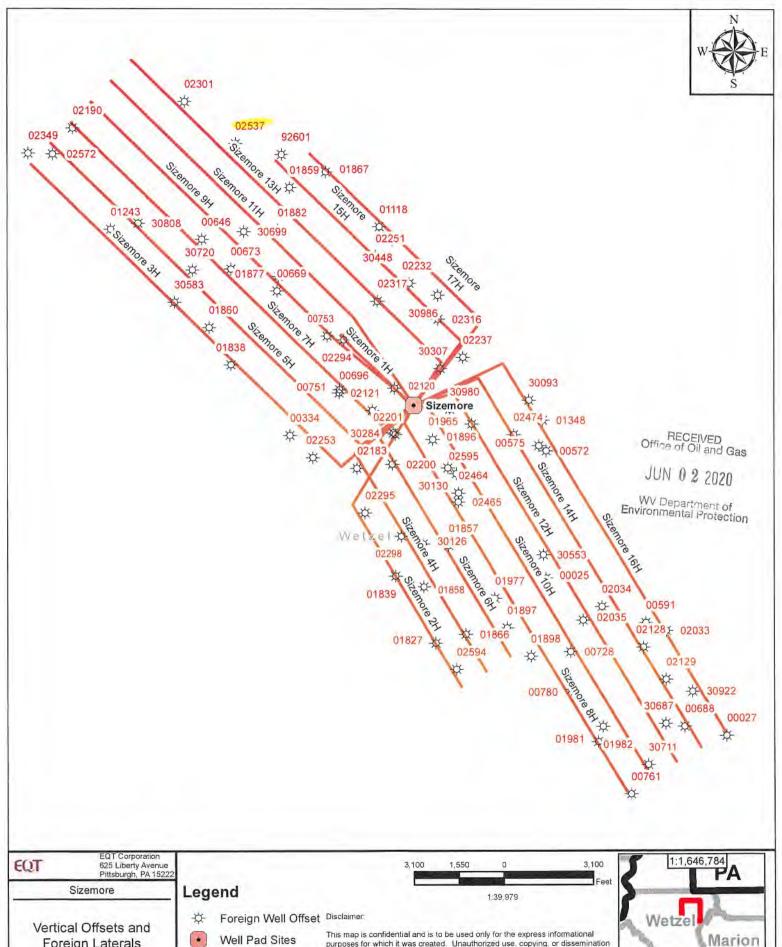
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

WellID	WellStatus	date	FmatTD	Permit	RemarksPR	0		Operator	Longitude	Latitude	DatumEleva	TotalDepth-SS	Total Depth
4710300025	GAS	6/12/1930		00025				MANUFACTURERS LIGHT & HEAT	-80.5133	39.6292	1240.0000	-1982.0000	3222.0000
4710300027	GAS	8/27/1930		00027				MANUFACTURERS LIGHT & HEAT	-80.4911	39.6141	1250.0000	-1104.0000	2354.0000
4710300334	DRY	11/5/1946		00334				A S ISINMINGER	-80.5447	39.6429	1170.0000	-600.0000	1770.0000
4710300572	UNK			00572				F M CHISLER	-80.5132	39.6413	1418.0000		1418.0000
4710300575	OIL	8/12/1967		00575				F M CHISLER	-80.5141	39.6418	1407.0000	-1985.0000	3392.0000
4710300591	UNK			00591				R M CHISLER	-80.5010	39.6249	1240.0000		1240.0000
4710300646	UNK	5/19/1900		00646	BNJ			EPC .	-80.5555	39.6615	1466.0000	-552.0000	2018.0000
4710300669	GAS-P	4/21/1904		00669				CNG	-80.5462	39.6566	1196.0000		1196.0000
4710300673	GAS	9/27/1904		00673	BNJ			CNG	-80.5519	39.6587	1020.0000	-1245.0000	2265.0000
4710300688	GAS	8/20/1914		00688	BNJGDN			EPC	-80.4963	39.6150	0.0000	-2455.0000	2455.0000
4710300696	GAS	1/2/1917		00696	GDN4SD			EPC	-80.5386	39.6469	0.0000	-3339.0000	3339.0000
4710300728	GAS	12/28/1918		00728	4SD			MANUFACTURERS L& H	-80.5103	39.6222	1300.0000	-1842.0000	3142.0000
4710300751	GAS	11/24/1905		00751	NCR			EPC	-80.5385	39.6472	0.0000	-2550.0000	2550.0000
4710300753	GAS			00753	NCR			EPC	-80.5400	39.6523	0.0000		0.0000
4710300761	GAS	2/3/1914		00761	NCR			EPC	-80.5030	39.6086	1240.0000	-2011.0000	3251.0000
4710300780	GAS			00780	NCR			EPC	-80.5103	39.6186	0.0000	-3363.0000	3363.0000
4710301118	OIL	8/30/1904		01118	GDN			PENNZOIL	-80.5335	39.6626	1190.0000	-1942.0000	3132.0000
4710301243	PLUG			01243	WERBER			PENNZOIL	-80.5667	39.6625	1250.0000		1250.0000
4710301348	UNK	2/22/1928		01348				MANUFACTURERS L& H	-80.5136	39.6442	1500.0000	-1838.0000	3338.0000
4710301827	UNK	7/20/2001		01827					-80.5269	39.6231	1299.0000	-2358.0000	3657.0000
4710301838	GAS	9/14/2001		01838	4SD			DAC	-80.5520	39.6496	1342.0000	-4342.0000	5684.0000
4710301839	GAS	8/11/2001		01839	GDN			DAC	-80.5318	39.6294	1566.0000	-2357.0000	3923.0000
4710301857	GAS	11/3/2001		01857	BNJGDN			DAC	-80.5252	39.6323	1625.0000	-2060.0000	3685.0000
4710301858	GAS	10/27/2001		01858	BNJGDN			DAC	-80.5283	39.6284	1461.0000	-2245.0000	3706.0000
4710301859	GAS	10/9/2001		01859	BNJGDN			DAC	-80.5446	39.6664	1258.0000	-2264.0000	3522.0000
4710301860	GAS	9/24/2001		01860	4SDBNJ			DAC	-80.5546	39.6532	1340.0000	-2271.0000	3611.0000
4710301866	GAS	11/12/2001		01866	GDN			DAC	-80.5232	39.6239	1596.0000	-2256.0000	3852.0000
4710301867	GAS	12/10/2001		01867	BNJGDN			DAC	-80.5401	39.6679	1296.0000	-2292.0000	3588.0000
4710301877	GAS	6/17/2002		01877	4SDBNJ			DAC	-80.5461	39.6580	1275.0000	-2354.0000	3629.0000
4710301882	GAS	7/30/2002		01882	GDN			DAC	-80.5461	39.6624	1281.0000	-2070.0000	3351.0000
4710301896	GAS	10/6/2002		01896	GDNBNJ				-80.5271	39.6424	1159.0000	-2282.0000	3441.0000
4710301897	GAS	9/20/2002		01897	GDN				-80.5181	39.6245	1405.0000	-2223.0000	3628.0000
4710301898	GAS	9/27/2002		01898	GDNBNJ				-80.5152	39.6218	1407.0000	-2233.0000	3640.0000
4710301965	GAS	8/12/2003		01965	GDN			DAC	-80.5223	39.6439	1392.0000	-2116.0000	3508.0000
4710301977	GAS	10/6/2003		01977	BNJGDN			DAC	-80.5196	39.6273	1247.0000	-2194.0000	3441.0000
4710301981	GAS	11/10/2003		01981	BNJGDS			DAC	-80.5070	39.6136	1195.0000	-2261.0000	3456.0000
4710301982	GAS	11/18/2003		01982	GDN			DAC	-80.5064	39.6150	1378.0000	-2289.0000	3667.0000
4710302033	CBM	5/5/2005		02033	PGH			DYNATEC ENERGY	-80.4985	39.6241	1221.0000	-33.0000	1254.0000
4710302034	CBM	4/27/2005		02034	PGH	m		DYNATEC ENERGY	-80.5064	39.6264	1187.0000	-23.0000	1210.0000
4710302035	GAS	11/11/2004		02035	GDNBNJ	WV   Environ		DAC	-80.5087	39.6252	1408.0000	-2276.0000	3684.0000
4710302120	UNK	11/7/2005		02120	BNJ	₹ã	<u>_</u>	. D. <b>⊈</b> :	-80.5318	39.6473	1199.0000	-2351.0000	3550.0000
4710302121	UNK	11/14/2005		02121	BNJ	n o	$\subseteq$	D 👨 💆	-80.5345	39.6452	1374.0000	-2236.0000	3610.0000
4710302128	UNK	10/15/2005		02128	BNJ/GDN	Departr Imental	_	D AGG	-80.5013	39.6226	1320.0000	-2280.0000	3600.0000
4710302129	GAS	10/23/2005		02129	BNJ/GDN	tal art	ر ا	D DEF	-80.4986	39.6195	1339.0000	-2261.0000	3600.0000
4710302183	GAS	7/8/2006		02183	BNJGDN	- P	~	DAG	-80.5364	39.6397	1431.0000	-2269.0000	3700.0000
4710302190	GAS	9/8/2006		02190	BNJ/GDN	윥	20,	D <b>≩.©</b>	-80.5713	39.6721	0.0000	-3500.0000	3500.0000
4710302200	GAS	10/14/2006		02200	BNJ/GDN	tment of . I Protection	õ	Outrop RECEIVED Case	-80.5321	39.6401	0.0000	-3340.0000	3340.0000
		-				읔 .		<u> </u>					

4710302201	GAS	10/8/2006	02201	BNJGDN	DAC	-80.5317	39.6429	0.0000	-3650,0000	3650.0000
4710302232	GAS	5/26/2007	02232	BNJGDSGDN5SDBYD	DAC	-80,5299	39.6573	1360.0000	-2210.0000	3570.0000
4710302237	GAS	6/23/2007	02237	BNJGDN5SDBYD	DAC	-80.5233	39.6502	1162.0000	-2232.0000	3394.0000
4710302251	GAS	6/16/2007	02251	BNJ/GDN	DAC	-80.5340	39.6598	1389.0000	-2196.0000	3585.0000
4710302253	GAS	8/11/2007	02253	BNJ/GDN	DAC	-80.5418	39.6408	1463.0000	-2217.0000	3680.0000
4710302294	GAS	10/16/2007	02294	BNJGDN5SD	DAC	-80.5380	39.6520	1285.0000	-2205,0000	3490.0000
4710302295	GAS	12/22/2007	02295	GDN	DAC	-80,5355	39.6355	1343.0000	-2281,0000	3624.0000
4710302298	GAS	10/23/2007	02298	5SDGDSSS	DAC	-80.5310	39.6332	1260.0000	-2320.0000	3580.0000
4710302301	GAS	11/16/2007	02301	SL/BNJ	DAC	-80,5575	39.6746	1382.0000	-2158,0000	3540.0000
4710302316	GAS	7/26/2008	02316	BNJ	DAC	-80.5264	39.6539	1321.0000	-2313.0000	3634.0000
4710302317	GAS	12/15/2007	02317	BLM/GDN	DAC	-80.5338	39.6556	1373.0000	-2230.0000	3603.0000
4710302349	GAS	8/23/2008	02349	GDN	DAC	-80.5768	39.6698	1362.0000	-2240,0000	3602.0000
4710302464	CBM	1/10/2010	02464		DOMINION COAL BED METHANE	-80.5240	39.6373	1218.0000	-53.0000	1271.0000
4710302465	CBM	12/2/2009	02465		DOMINION COAL BED METHANE	-80.5240	39,6365	1321.0000	-29,0000	1350.0000
4710302474	GAS	8/7/2009	02474	BYDBNJ5SD4SDGDS	DAC.	-80.5171	39.6428	1289.0000	-2294,0000	3583.0000
4710302537	GAS	3/2/2010	02537	HTV	GRENADIER ENERGY	-80.5513	39.6706	1391.0000	-6332.0000	7723.0000
4710302572	GAS	7/29/2010	02572		GRENADIER ENERGY PARTNERS	-80.5738	39,6697	1332.0000	-5168.0000	6500.0000
4710302594	СВМ	2/9/2011	02594		CONSOL GAS	-80.5244	39.6206	1216.0000	636.0000	580.0000
4710302595	СВМ	2/9/2011	02595	PGH	CONSOL GAS	-80.5242	39.6392	1197.0000	-132,0000	1329.0000
47103029260	1 GAS	10/17/2014	92601		STATOIL USA ONSHORE PROP	-80.5456	39,6696	1471.0000	-12289,0000	13760.0000
4710330093	GAS	2.47.27.2	LOWER HURC 30093		MANUFACT LIGHT	-80.5153	39.6461	1397.0000	-2060,0000	3457.0000
4710330126	OIL GS		30126		OPER IN MIN.OWN	-80.5283	39.6325	1421.0000	-1969.0000	3390.0000
4710330130	OIL		30130		OPER IN MIN.OWN	-80.5253	39.6397	1185.0000	-1880.0000	3065.0000
4710330284	O&G	12/2/1925	30284		H E MILLIKEN	-80.5319	39.6431	1232.0000	-1984.0000	3216.0000
4710330307	OIL	4/19/1939	LOWER HUR( 30307		SOUTH PENN	-80.5261	39.6492	1116.0000	-1985.0000	3101.0000
4710330448	OILGS	3/30/1901	LOWER HURC 30448		SOUTH PENN	-80.5319	39.6614	1138.0000	-1848.0000	2986.0000
4710330553	GAS	2/6/1923	30553		MANUFACT LIGHT	-80.5136	39.6314	1394.0000	-2022.0000	3416.0000
4710330583	O&G	4/21/1904	30583		RANDALL-ZOGG	-80.5589	39.6556	1043.0000	-1874.0000	2917.0000
4710330687	GAS	11/28/1913	30687		HOPE NAT GAS	-80.4986	39.6153	1306.0000	-1910.0000	3216.0000
4710330699	GAS		30699		OPER IN MIN.OWN	-80.5503	39.6622	1226.0000	-1174.0000	2400.0000
4710330711	OIL		LOWER HURG 30711		OPER IN MIN.OWN	-80.5008	39.6114	1331.0000	-1895.0000	3226,0000
4710330720	OILGS	3/27/1905	LOWER HUR( 30720		SOUTH PENN	-80,5567	39.6586	1034.0000	-1869.0000	2903.0000
4710330808	GAS	4/22/1920	30808		HOPE NAT GAS	-80.5633	39.6631	1466.0000	-1052.0000	2518.0000
4710330922	GAS	9/20/1917	LOWER HURC 30922		MANUFACT LIGHT	-80.4953	39.6183	1.0000	-3265.0000	3266.0000
4710330980	GAS	5/29/1907	LOWER HURC 30980		HOPE NAT GAS	-80.5250	39.6453	1341.0000	-2009.0000	3350.0000
4710330986	UNK	12,02,020	30986		OPER IN MIN.OWN	-80.5264	39.6561	1.0000	-2359.0000	2360.0000

Office of Oil and Gas
JUN 0 2 2020

WV Department of Environmental Protection



Foreign Laterals

within 500'

Geneseo

Marcellus

Utica

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

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west virginia department of environmental protection

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



#### west virginia department of environmental protection

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

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

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

IN THE MATTER OF A VARIANCE FROM	)	ORDER NO. 2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1	)	
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE	)	
THE OPERATIONAL	)	
REGULATIONS OF CEMENTING OIL	)	
AND GAS WELLS	)	

Office of Oil and Gas

JUN 02 2020

WV Department of Environmental Protection

### REPORT OF THE OFFICE

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

### FINDINGS OF FACT

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

Promoting a healthy environment.

#### CONCLUSIONS OF LAW

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

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

#### ORDER

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

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

WV Department of Environmental Protection

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well PUD ID

1148 GL

v 2017.4 Enertia # 123456

 Drilling Objectives:
 Marcellus

 County:
 Wetzel

 Quad:
 Littleton

Elevation: 1161 KB
Surface location Northing: 0.00

 Surface location
 Northing:
 0.00
 Easting:
 0.00

 Landing Point
 Northing:
 0.00
 Easting:
 0.00

 Toe location
 Northing:
 0.00
 Easting:
 0.00

 Recommended Azimuth
 0 Degrees
 0 Degrees
 0.00

TVD: 7335
Recommended LP to TD: 0.000'

Top (TVD)		Lithology	Comments		
1			FW @ 176,682,717		
					Maria Cara
				P	ECEIVED
888	891 Coal		SW @ 1859, ,	Office	of Oil and Gas
	2363 Sandston	ne		Omoc	or on and das
2463				77.157	0.0
2507	2761 Sandston	ne	Not in storage	JUN	0 2 2020
2847				0011	LOLO
2847	3033 Silty San	nd		WALD	
3033	3101 Silty San	nd		VVV DE	partment of
3101	3133 Silty San	nd		Environm	ental Protection
3185	3631 Silty San	nd	Base of Offset Well Perforations at 3026' TV	/D	
3694	3772 Silty San	nd			
3772	4089 Silty San	nd			
5657	6100 Silty San	nd			
6100					Top RR Base RR
6880					No red rock listed in offset comple
6880					
7031	7075 Shale				
7075	7154 Gray sha	ale interbedded			
7154	7184 Black Sh	nale			
7184	7206 Limeston	ne			
	The second second second second				
	The state of the s				
			Start Lateral at 7335'		
	7347 Limeston	ne			
7462					
	1 527 754.5 888 2463 2507 2847 2847 3033 3101 3185 3694 3772 5657 6100 6880 6880 7031 7075 7154 7184 7206 7312 7331 7335 7345 7362	1 717 527 531 Coal 754.5 761 Coal 888 891 Coal 2363 Sandsto 2463 2507 2761 Sandsto 2847 2847 3033 Silty San 3033 3101 Silty San 3101 3133 Silty San 3101 3133 Silty San 3101 3133 Silty San 3101 3135 Silty San 3101 3135 Silty San 3101 3135 Silty San 3101 3137 Silty San 311 3772 4089 Silty San 3172 4089 Silty San 3101 6880 6880 Gray Sh 6880 6880 Gray Sh 6880 6880 Gray Sh 6880 7031 Gray sh 7031 7075 Shale 7075 7154 Gray sh 7154 7184 Black Sl 7184 7206 Limesto 7206 7312 Gray sh 7312 7362 Black Sl 7331 7333 Limesto 7345 7347 Limesto 7362	1 717 527 531 Coal 754.5 761 Coal 888 891 Coal 2363 Sandstone  2463 2507 2761 Sandstone  2847 2847 3033 Silty Sand 3033 3101 Silty Sand 3101 3133 Silty Sand 3185 3631 Silty Sand 3772 Silty Sand 3772 4089 Silty Sand 5657 6100 Silty Sand 6100 6880 Silty Sand 6880 6880 Gray Shales and Silts 6880 7031 Gray shale 7031 7075 Shale 7075 7154 Gray shale interbedded 7154 7184 Black Shale 7184 7206 Limestone 7206 7312 Gray shale with some 7312 7362 Black Shale 7335 7345 7347 Limestone	Total	Total Coal

#### Comments:

Max Anticipated Rock Pressure

Note that this is a TVD prog for a horizontal well (azimuth of 0 degrees; target formation = Marcellus), All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

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

The estimated landing point TVD is 7335', rig geologist may adjust landing point. After the well is landed, drill to reported bed dips/ geologists' recommendation. The geologic structure is unknown at this time

### LATERAL DRILLING TOLERANCES

 Mapview - Lateral:
 Deviate as little as possible to the left or right of the planned wellbore.

 Mapview - TD:
 DO NOT EXTEND beyond recommended wellbore to avoid leaseline.

2620 PSI

### RECOMMENDED CASING POINTS

Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:		1041	Below Pittsburgh
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:		2463	Beneath Big Injun Base
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD		

**EQT Production Wellbore Diagram** County: Well: Sizemore 13H Wetzel West Virginia Pad: Sizemore State: Elevation: 1148' GL 1161' KB Conductor @ 40' 26", 85.6#, A-500, cement to surface w/ Class A Surface @ 1,041' 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I RECEIVED
Office of Oil and Gas JUN 02 2020 WV Department of Environmental Protection Intermediate 2,463' @ 9-5/8", 40#, A-500, cement to surface w/ Class A/Type I DMH 5/28/20 11,287' MD / 7,335' TVD **Production** 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H Formation: Marcellus **NOT TO SCALE** 



June 1, 2020

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

Re: Casing on Sizemore 13H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,041' KB, 150' below the deepest workable coal seam and 324' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,463' KB, 100' below the base of the Big Injun formation.

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

Sincerely,

John Zavatchan

Landman - Permitting

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JUN 0 2 2020

WV Department of Environmental Protection

Enc.

API Number 47 -	<i>,</i>	4	7	1	0	3	0	3	3	5	0
Operator's Well No	. Sizemor	e 13H									

Member, Pennsylvania Association of Notaries

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company	OP Code 306686	
Watershed (HUC 10) Tributary of Sugar Run	Quadrangle Littleton	
Do you anticipate using more than 5,000 bbls of water to co Will a pit be used? Yes No		
If so, please describe anticipated pit waste: N/A	(0.11)	
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.? N/A	Day
Proposed Disposal Method For Treated Pit Wastes	es:	7-4-20
Land Application	5 7 7 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 / 0
■ Underground Injection (UIC Per Reuse (at API Number Various	ermit Number_ 0014, 8462, 4037	)
Off Site Disposal (Supply form Other (Explain	WW-9 for disposal location)	
Will closed loop system be used? If so, describe: Yes, The other preparation of the prepa	closed loop system will remove drill cuttings from the drilling fluid. The drill cutt ared for transportation to an off-site disposal facility.	ings are
Drilling medium anticipated for this well (vertical and horizontal)	izontal)? Air, freshwater, oil based, etc. See Attached	-
-If oil based, what type? Synthetic, petroleum, etc.	c. Synthetic Mud	RECEIVED Office of Oil and Gas
Additives to be used in drilling medium? See Attached		JUN 0 2 2020
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. Landfill	
-If left in pit and plan to solidify what medium wil	ill be used? (cement, lime, sawdust) N/A Er	WV Department of wironmental Protection
-Landfill or offsite name/permit number? See Atta		
	and Gas of any load of drill cuttings or associated waste rejection and the permittee shall also	
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violatio law or regulation can lead to enforcement action.  I certify under penalty of law that I have person application form and all attachments thereto and that, I	and conditions of the GENERAL WATER POLLUTION Plant Virginia Department of Environmental Protection. I under one of any term or condition of the general permit and/or of conally examined and am familiar with the information subbased on my inquiry of those individuals immediately representations in its true, accurate, and complete. I am aware that there appears that there is consistent of the protection of the general permit and/or of the general p	rstand that the ther applicable mitted on this esponsible for
Company Official Signature		
Company Official (Typed Name) John Zavatchan		
Company Official Title Project Specialist - Permitting		
Subscribed and sworn before me this 3rd day of	of fabruary , 20 20 Notary Public	
My commission expires OCH Dr. 25, 8	Commonwealth Olivia Pis All My commission	of Pennsylvania - Notary Sea chioneri, Notary Public degheny County on expires October 25, 2023 sion number 1359968

#### **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.

### $\sqrt{\phantom{a}}$

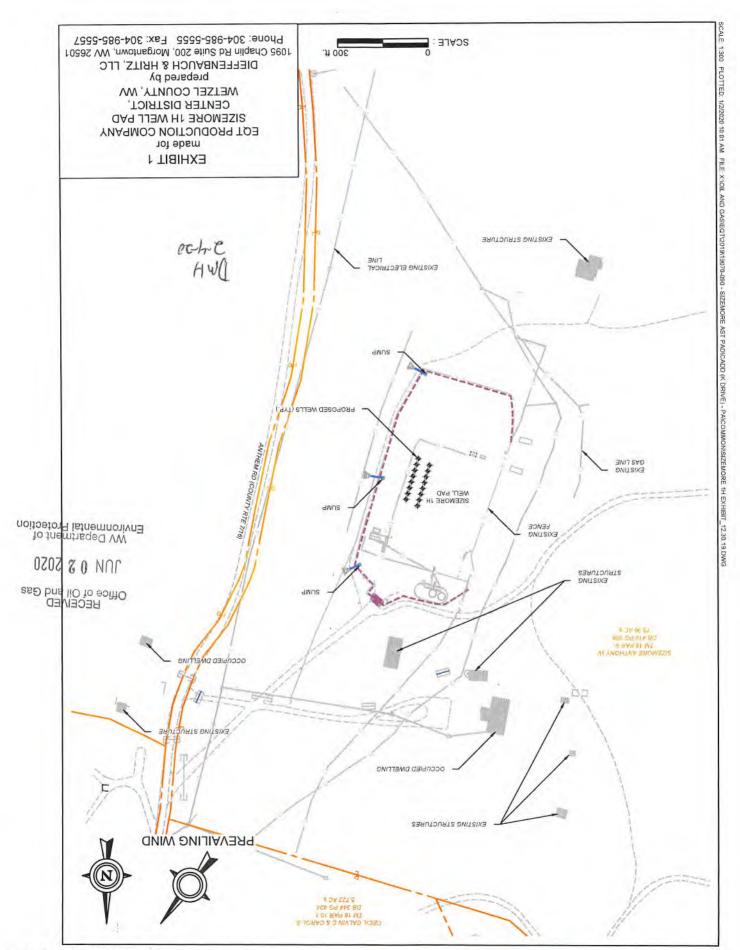
### Additives to be used in drilling medium?

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

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JUN 0 2 2020

Proposed Revegetation Treat	tment: Acres Disturbed N	lo additional disturbance Prevegetation pH	I	
		ct to pH 6.5		
Fertilizer type Gra	nular 10-20-20			
Fertilizer amount 1	/3	lbs/acre		
Mulch_ 2		_Tons/acre		
		Seed Mixtures		
Те	emporary	Perma	nent	RECEIVED Office of Oil and Ga
Seed Type	lbs/acre	Seed Type	lbs/acre	JUN 02 2020
KY-31	40	Orchard Grass	15	WV Department of Environmental Protection
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
Attach: Maps(s) of road, location, pirprovided). If water from the acreage, of the land application	t and proposed area for lan pit will be land applied, inc on area	d application (unless engineered plans inclucions of the pit, and	ding this info have	been W), and area in
Attach: Maps(s) of road, location, piprovided). If water from the acreage, of the land applicati Photocopied section of invol	t and proposed area for lan pit will be land applied, inc on area ved 7.5' topographic sheet.	d application (unless engineered plans included dimensions (L x W x D) of the pit, and	ding this info have	W), and area in
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EQT Production Water Plan									
		Offsite Disp	osals for Unconvention	al Wells					
acility Name	Address	Address 2	City	State	Zip	Phone	County	State	Permit Number
CWS Trucking Inc.	P.O. Box 391		Williamstown	wv	26187	740-516-3586	Noble	ОН	3390
2443 Hucking Mc.	1.0.00.001								
Broad Street Energy LLC	37 West Broad Street	Suite 1100	Columbus	ОН	43215	740-516-5381	Washingotn	ОН	8462
Stoad Street Ellergy LLC	37 West Broad Street	Suite 1100	Coldinous	<del> </del>	1.0				
AD Liquid Assets Disposal Inc.	226 Rankin Road		Washington	PA	15301	724-350-2760	Ohio	wv	USEPA WV 0014
AD Liquid Assets Disposal Inc.	220 Natikiti Nodu		Washington	+	120002	1210002700	-		
Fried Preserv	PO Box 430		Reno	ОН	45773	740-516-6021	Noble	ОН	4037
Friad Energy	FO BOX 450		Incho	10	13773	740-374-2940	110010	10	1.007
					<del>                                     </del>	740 374 2340	<u> </u>		
F. C W	1497 Toma Bun Bond		Holbrook	PA	15341	724-627-7178	Greene	PA	TC-1009
ri County Waste Water Management, Inc.	1487 Toms Run Road		HOIDTOOK	+	13341	724-499-5647	Greene	<del> '^-</del>	16-1005
				_		724-433-3047		<del> </del>	
	101 Birra Barla Silva		Now Castle	PA	16101	<del> </del>	Lawrence	PA	PAR000029132
King Excavating Co. Advance Waste Services	101 River Park Drive		New Castle	- PA	120101	<del> </del>	Lawience	I'M	LWU000052125
	10.00 500		Daideanant	<del>-  w</del> -	16330	304-326-6027	Harrison	wv	SWF-1032-98
Waste Management - Meadowfill Landfill	Rt. 2, Box 68 Dawson Drive		Bridgeport	- WV	16330	304-320-0027	Harrison	1000	
								<u> </u>	Approval #100785WV
Waste Management - Northwestern Landfill	512 E. Dry Road		Parkersburg	wv	26104	304-428-0602	Wood	wv	SWF-1025 WV-0109400
APEX Landfill	11 County Road 78	PO Box 57	Amsterdam	ОН	43903	740-543-4389	Jefferson	ОН	06-08438
Advanced Disposal - Chestnut Valley Landfill	1184 McClellandtown Road		McClellandtown	PA	15458_	724-437-7336	Fayette	PA	100419
								<u> </u>	
Westmoreland Sanitary Landfill	901 Tyrol Boulevard		Belle Vernon	PA	15012	724-929-7694	Westmoreland	PA	100277
								l	
Austin Master Services	801 North 1st Street		Martins Ferry	ОН	43935	740-609-3800	Belmont	ОН	2014-541
Belmont Solids Control	77505 Cadiz-New Athers Road		Cadiz	ОН	43907	740-942-1739	Harrison	ОН	2015-511
Diversified Resources	3111 Braun Rd.		Belpre	ОН	45714	740-401-0413	Washington	ОН	
									34-031-27177
			Coshocton	ОН	43812	740-610-1512		он	34-031-27178
Buckeye Brine	23986 Airport Road				1	724-591-4393	Coshocton		34-031-27241
buckeye brille	23300 Airport Nodu				<del>                                     </del>				
Central Environmental Services	28333 West Belpre Pike		Coolville	ОН	45723	304-488-0701	Athens	ОН	
Central Environmental Services	28333 West belief Fike		CODIVINE	<del>    -</del>	13725	100.100.0702			
Al Al'-l-l-	10555 Veto Road		Belpre	ОН	45714	330-232-5041	Washington	ОН	34-119-2-8776
Nuverra - Nichols	10353 Veto Road		Delpre	<del>                                      </del>	13724	330-232-3041	washington	1	3111310770
	0250 Fort Biles Bood		Norwich	ОН	43767	330-232-5041	Muskingum	ОН	34-167-2-3862
Nuverra - Goff	9350 East Pike Road		NOIWICII	-1011	+3/0/	330-232-3041	iriuskiiiguiii	1511	34 107 2 3002
	FARO State Bout - 5		Newton Falls	ОН	44444	330-232-5041	Trumbull	ОН	34-155-2-1893
Nuverra - Wolf	5480 State Route 5		Newton Falls	- IOH	44444	330-232-3041	Trumbull	100	34-133-2-1033
			Mandan Falls		14444	220 222 5044	Trumbull	ОН	34-155-2-3795
Nuverra - Pander	5310 State Route 5		Newton Falls	ОН	44444	330-232-5041	Trumbuli	lou lou	34-153-2-5/35
					14455	220 222 5055	T	lou	24 155 2 2402
Nuverra - AnnaRock D-1	3549 Warner Road	1	lFowler	ЮН	44418	330-232-5041	ıırumpuli	Юн	34-155-2-2403

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					740-374-2940			
		Reno	ОН	45773	412-443-4397		ОН	
FQ Helen	199 Bowersock Road				740-236-2135	Washington		34-167-2-9577
1					740-374-2940			
		Dexter City	ОН	45727	412-443-4397		ОН	34-121-24037
FQ Dexter	38505 Marietta Rd.				740-236-2135	Noble		34-121-24086
					740-374-2940			
		SH h		20246	1		lwv	
	1	Ellenboro	wv	26346	412-443-4397	B:: 1 :	I VV V	47.005.00724
FQ Ritchie	122 Lonesome Pine Rd			+	740-236-2135	KITCHIE	+	47-085-09721
				<del></del>				34-105-2-3619
					740-374-2940			34-105-2-3652
		Portland	ОН	45770	412-443-4397		ОН	34-105-2-3637
FQ Mills	53610 TS Rd 706				740-236-2135	Meigs		34-105-2-3651
				<u> </u>				
Petta Enterprises - OH	745 North 3rd Street	Cambridge	он	43725	614-477-1368	Guernsey	он	Ohio Chiefs Order 25-019
Petta Enterprises - WV	38 Technology Dr.	Tridelphia	wv	26059	740-255-5727	Ohio	wv	
Deep Rock Disposal	2341 OH-821	Marietta	ОН	45750	304-629-0176	Washington	ОН	34-167-2-9766

WV Department of Environmental Protection

Office of Oil and Gas



### Site Specific Safety and Environmental Plan

# EQT LIT51 Pad Center

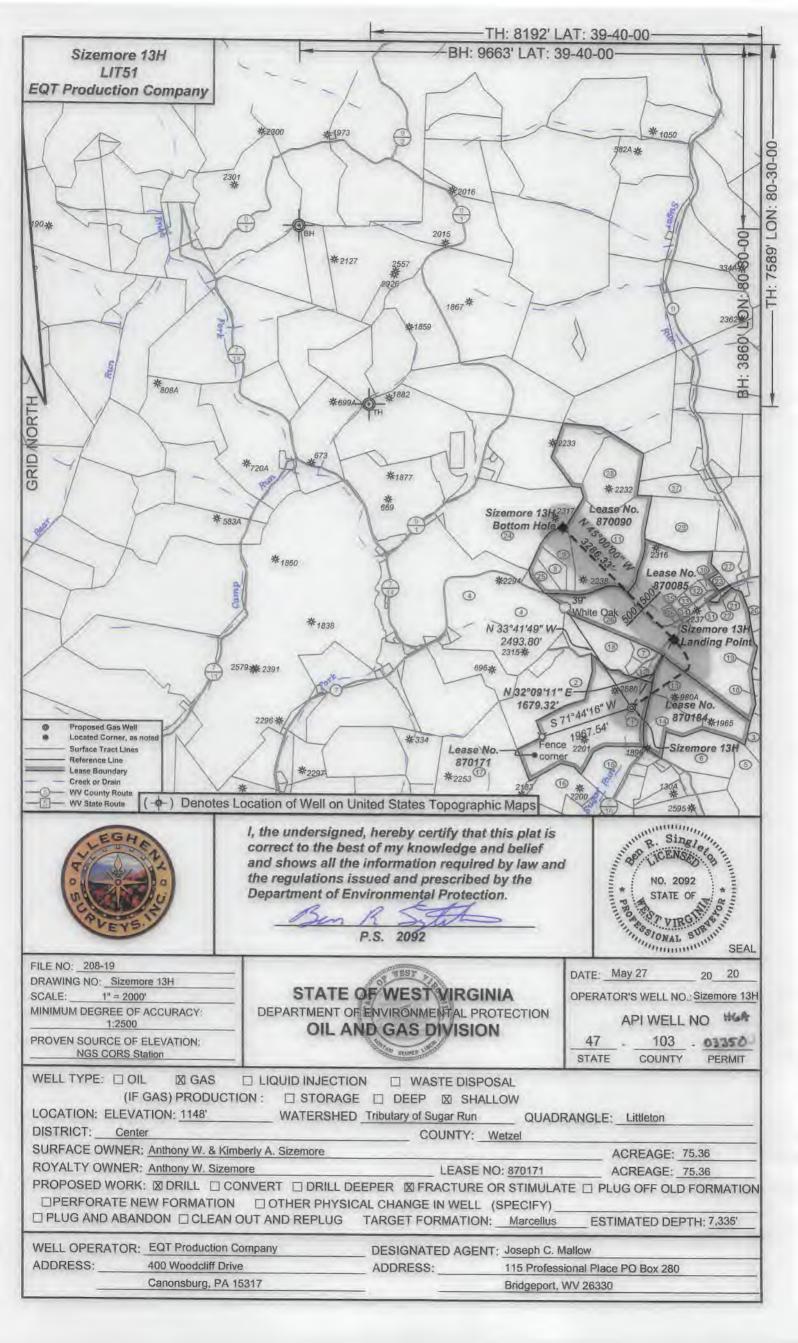
Office of Oil and Gas

JUN 0 2 2020

WV Department of Environmental Protection

Wetzel County, WV

Sizemore 1H	3Н	5H	For Wells:	9H	11H	13H
15H	17H					
Date Prep	1	uary 20, 2019		V Oil and G	as Inspector	/
	pecialist - P	ermitting	Contract Total	il and Gas I	nspector	
Title  Date	13120	<u></u>		2-4-20 ate	7,6	



### Sizemore 13H LIT51 **EQT Production Company**

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	ū	Wetzel	Center	Anthony Sizemere	75,36
2	15	В	Wetzel	Center	Larry D. Roberts	44.50
3	9	1/1	Wetzel	Chairch	Emma P. & Richard Brister	19.75
4	12	ō	Wetzel	Center	Nancy E. Jolliffe	44.77
5	9	12	Wester	Church	Terrance J. & Terri L. O'Brien	81,00
6	16	37	Wetzel	Center	Russell J. Strum	30,00
7	16	10	Wetzel	Center	Catvin C. & Carol Caol	3,18
В	12	223	Westzel	Center	EQT Production Company	6.78
9	12	22	Wetzel	Center	Reds M. Amos, et al.	14,77
10	9	10	Wetzel	Church	William L. Minger	21.00
11	12	23	Wetzel	Center	Rada M. Amos, et al.	55.30
12	16	10.1	Wetzel	Center	Ray & Cassandra Stonelling	5.72
13	16	12	Wetzel	Center	Thomas dones, et al.	34.20
14	16	11	Wetzel	Center	Earl Noti, et al.	20,00
15	16	33	Wetzel	Center	Anthony W. & Kimberly A. Sizemore	20.64
16	16	31	Wetzel	Center	Devona D. & Kelly M. Reed	18.75
17	16	28	Wetzel	Center	William J. Morris Revocable Trust	93.25
18	12	31	Watzel	Center	John S. Starkey, et al.	22.50
19	9	В	Wetzel	Church	Mark Ransom	43.30
20	9	H.1	Wetze	Church	Aarnon A. & Flora J. Burley	18,00
21	12	42	Wetzel	Center	Carolyn Grone-Aamot	1.68
22	12	25	Wated	Center	Glenn & Trina Hollatiaugh	0.33
23	12a	5	Wetzel	Center	Kevin R. Milliken, et al.	1.86
24	12	21	Wetzel	Center	Jamie L. A Melisco G. Dent	78.30
25	12	19,6	Wetzel	Center	EQT Production Company	1.70
28	12.	24	Wetzel	Center	Matthew L. Kennedy	87.67
27	6	29	Wetzel	Clay	April L. & Gerard B. Noms	7,47
28	12	15	Wester	Center	Reda M. Amos, et al.	33,00
29	6	21	Wetzel	Clay	Pamela E. Prido	35,75
30	12a	4	Wetzet	Center	Kevin R. Millian, et al.	1.04
31	12a	6	Watzul	Center	Robert K. Tennant	0.57
3.1	12a	7	Wetzel	Cantar	Robert K. Tennant	0.57
31	12n	8	Wetze	Center	Robert K. Tennani.	0.33
32	12a	2	Wetzel	Center	Robert K. Tennant	1.37
32	12a	3	Wetzel	Center	Robert K. Termant	1.37
33	12a	1	Westzel	Center	Scott A. & Abiguil D. Trennent	1.37
34	12a	10	Watzel	Center	Scott A. & Abigail D. Teenant	2.24
35	12a	.0	Wetzel	Center	Matthew L. Kennedy	0.77
36	12	44	Westzol	Center	Scott A. & Abquel D. Temperyt	1.49
37	16	33	Wetzei	Clay	Pamela E. Prids	17.37



Sizemore 13H coordinates are NAD 27 N: 418,997,60 E: 1,710,218.89 NAD 27 N: 418,997,60 E: 1,710,218.89

NAD 27 Lat: 39.645834 Long: -80.529090

NAD 83 UTM N: 4,385,66.66 E: 540,420.23

Sizemore 13H Landing Point coordinates are

NAD 27 N: 420,419.36 E: 1,711,112.60

NAD 27 Lat: 39.649765 Long: -80.525975

NAD 83 UTM N: 4,389,002.37 E: 540,685.30

Sizemore 13H Bottom Hole coordinates are

NAD 27 N: 422,743.07 E: 1,708,788.89

NAD 27 Lat: 39.656071 Long: -80.534322

NAD 83 UTM N: 4,389,698.48 E: 539,965.55

West Virginia Coordinate system of 1927 (North Zone)

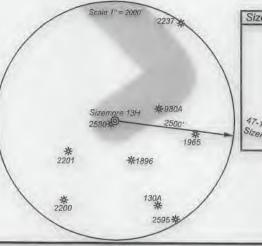
based upon Differential GPS Measurements.

Plat orientation, comer and well ties are based upon the grid north meridian.

Well location references are based upon the grid north meridian.

UTM coordinates are NAD83, Zone 17, Meters.

Lease No.	Owner	Acres
870184	Mildred Bright, et al.	54.2
870085	Charles Lee Roberts, et al.	95.87
870090	Lloyd & Nancy Postlethweit, et al.	140







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

P.S. 2092

NO. 2092
STATE OF
VIRGINIAN
SIMPLE OF STATE OF S SEAL

FILE NO: 208-19 DRAWING NO: Sizemore 13H 1" = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION: NGS CORS Station

Canonsburg, PA 15317

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

DATE: May 27 OPERATOR'S WELL NO .: Sizemore 13H API WELL NO 47 103 0 2350 STATE COUNTY PERMIT

Bridgeport, WV 26330

WELL TYPE: ☐ OIL  ☐ GAS ☐ LIQUID INJECT	TION WASTE DISPOSA	AL	
(IF GAS) PRODUCTION : ☐ STORA	AGE DEEP X SHALLO	W	
LOCATION: ELEVATION: 1148' WATERSH	IED Tributary of Sugar Run	QUADRANGLE	Littleton
DISTRICT: Center	COUNTY: We		
SURFACE OWNER: Anthony W. & Kimberly A. Sizemore			ACREAGE: 75.36
ROYALTY OWNER: Anthony W. Sizemore	LEASE NO:	870171	
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL ☐ PERFORATE NEW FORMATION ☐ OTHER PHY	DEEPER FRACTURE OR	STIMULATE   PL	
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG			TIMATED DEPTH: 7,335'
WELL OPERATOR: EQT Production Company	DESIGNATED AGENT:	Joseph C. Mallow	
ADDRESS: 400 Woodsliff Drive	ADDDESS.	11E Professional Plac	DO Poy 200

WW-6A1	ĺ
(5/13)	

Operator's Well No.	Sizemore 13H
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### INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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

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

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

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WV Department of Environmental Protection

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

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

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

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

Well Operator: EQT Production Company

By: John Zavatchan

Its: Project Specialist - Permitting

Sizemore 13H

Grantor, Lessor, etc.	Grantee, Lessee, etc. Roya	ity Book/Page
Anthony W. Sizemore	**	
James Sizemore and Donna Sizemore	<b>Drilling Appalachian Corporation</b>	OG 84A-516
Drilling Appalachian Corporation	Grenadier Energy Partners, LLC	OG 124A/9 & 136A/53
Drilling Appalachian Corporation	Statoil USA Onshore Properties Inc.	OG 138A/54
Grenadier Energy Partners, LLC	Statoil USA Onshore Properties Inc.	OG 138A/1
Statoil USA Onshore Properties Inc.	EQT Production Company	OG 175A/707
Mildred Bright et al	**	
	Drilling Annalachian Corporation	OG 111A/407
<b>G</b>	•	OG 124A/9 & 136A/53
•	•••	OG 138A/54
•	•	OG 138A/1
Statoil USA Onshore Properties Inc.	EQT Production Company	OG 175A/707
	**	
Charles Lee Roberts and Shirley E. Roberts, h/w	Drilling Appalachian Corporation	OG 84A/452
Drilling Appalachian Corporation	Grenadier Energy Partners, LLC	OG 124A/9 & 136A/53
Drilling Appalachian Corporation	Statoil USA Onshore Properties Inc.	OG 138A/54
Grenadier Energy Partners, LLC	Statoil USA Onshore Properties Inc.	OG 138A/1
Statoil USA Onshore Properties Inc.	EQT Production Company	OG 175A/707
Lloyd & Nancy Postlothwait at al	**	
	Drilling Appalachian Corporation	OG 85A/667
·	÷ ,,	OG 124A/9 & 136A/53
•		OG 138A/54
•		OG 138A/1
	•	OG 175A/707
	Anthony W. Sizemore  James Sizemore and Donna Sizemore  Drilling Appalachian Corporation  Drilling Appalachian Corporation  Grenadier Energy Partners, LLC  Statoil USA Onshore Properties Inc.  Mildred Bright, et al.  Mildred Bright  Drilling Appalachian Corporation  Drilling Appalachian Corporation  Grenadier Energy Partners, LLC  Statoil USA Onshore Properties Inc.  Charles Lee Roberts, et al.  Charles Lee Roberts and Shirley E. Roberts, h/w  Drilling Appalachian Corporation  Drilling Appalachian Corporation  Drilling Appalachian Corporation  Grenadier Energy Partners, LLC	Anthony W. Sizemore James Sizemore and Donna Sizemore Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.  Mildred Bright, et al. Mildred Bright, et al. Mildred Bright Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties Inc.

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

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Office of Oil and Gas

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EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317 www.eqt.com

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

June 1, 2020

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

Re: Sizemore 13H Gas Well Center District, Wetzel County

Dear Mr. Brewer,

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

Office of Oil and Gas

JUN 0 2 2020

WV Department of Environmental Protection

Sincerely,

John Zavatchan Landman - Permitting WW-6AC (1/12)

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

Date of Notic	e Certification: 06/01/2020	API	I No. 47-	
		Оре	erator's Well No. 13H	
		Wei	Il Pad Name: Sizemor	e
Notice has I	een given:			
	e provisions in West Virginia Code §	22-6A, the Operator has provided	d the required parties v	vith the Notice Forms listed
	tract of land as follows:			
State:	West Virginia		ting: <u>540420.23</u>	
County:	Wetzel	Nor	rthing: 4388564.66	
District:	Center	Public Road Access:	CR 7/16	
Quadrangle:	Littleton	Generally used farm r	name: Anthony W. and K	imberly A. Sizemore
Watershed:	Tributary of Sugar Run			
prescribed by it has provide information re of giving the requirements Virginia Code of this article	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sled the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applican West Virginia Code § 22-6A, the Op	nall contain the following informated in subdivisions (1), (2) and (1) ection sixteen of this article; (ii) the right representation (a), so this article were waived in writtender proof of and certify to the set.	tion: (14) A certification, subsection (b), set at the requirement was section ten of this artiting by the surface overretary that the notice	on from the operator that (i) ction ten of this article, the deemed satisfied as a second Gas cle six-a; or (iii) the notice wher; and Pursuant to Western
that the Ope	rator has properly served the require		volice Certification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY			ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	ΓICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY V	WAS CONDUCTED	□ RECEIVED
■ 3. NO	FICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLA WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUE	BLIC NOTICE			☐ RECEIVED
■ 6. NO	FICE 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.

WW-6AC (1/12)

### Certification of Notice is hereby given:

above, to the re signature confirm in this Notice (	at as required under West Virginia Code a equired parties through personal service, be mation. I certify under penalty of law that Certification and all attachments, and the	§ 22-6A, I have so by registered mail I have personally at based on my i	the notice requirements within West Virginia Code § 22- erved the attached copies of the Notice Forms, identified or by any method of delivery that requires a receipt or examined and am familiar with the information submitted inquiry of those individuals immediately responsible for d complete. I am aware that there are significant penalties
	alse information, including the possibility		
Well Operator:	EQT Production Company	Address:	400 Woodcliff Drive
By:	John Zavatchan		Canonsburg, PA 15317
Its:	Project Specialist - Permitting	Facsimile:	412-395-2974
Telephone:	724-746-9073	Email:	jzavatchan@eqt.com
Common	NOTARY SEAL S	ubscribed and swo	orn before me this day of July 2020.

Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County My commission expires October 25, 2023 Commission number 1359968

Member, Pennsylvania Association of Notaries

Notary Public

My Commission Expires

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.

Office of Oil and Gas

JUN 0 2 2020

WW-6A (9-13)

API NO. 47-	4	7	1	0	3	0	3	3	5	0
OPERATOR W	ELL	N	0.	13H				_		
Well Pad Name	: Size	emo	re							

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 5/29/2020 Date Permit Application Filed: 6/1/2020 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL **SERVICE** MAIL. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. Office of Oil and Gas ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☐ SURFACE OWNER(s) COAL OWNER OR LESSEE JUN 02 2020 Name: See AttachedList Name: See AttachedList WV Department of Environmental Protection Address: Address: ☐ COAL OPERATOR Name: Address: Name: \_\_\_\_\_ Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See AttachedList ☑ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: See AttachedList Name: Address: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: Name: See AttachedList Address: Address: \*Please attach additional forms if necessary

WW-6A	
(8-13)	

API NO. 47	
OPERATOR WELL NO	O. 13H
Well Pad Name: Sizemon	e

### 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 drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary, at the WV Department of Environmental drilling may be obtained from the Secretary. Additional information related to horizontal drilling may be obtained from the Secretary, at the 11 Copyright Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-JUN 0">www.dep.wv.gov/oil-JUN 0</a>

#### Well Location Restrictions

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

WW-6A (8-13)

API NO. 47-	
OPERATOR WELL NO. 13H	
Well Pad Name: Sizemore	

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 SEECEIVED Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to Sample and Gas 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:

Wv Department of Environmental Protection

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

#### Written Comment:

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

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

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

WW-6A (8-13) API NO. 47- 4710303350

OPERATOR WELL NO. 13H
Well Pad Name: Sizemore

### Time Limits and Methods for Filing Comments.

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

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

### Comment Requirements

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

Disclaimer: All comments received will be placed on our web site <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

### Permit Denial or Condition

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

Office of Oil and Gas

- (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.

JUN 0 2 2020

WV Department of Environmental Protection

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  $\S$  22-6 $\Lambda$ -10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (8-13)

API NO. 47- 4.710303350

OPERATOR WELL NO. 13H

Well Pad Name: Sizemore

Notice is hereby given by:

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

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

### Oil and Gas Privacy Notice:

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

Commonwealth of Pennsylvania - Notary Seal Olivia Pishioneri, Notary Public Allegheny County My commission expires October 25, 2023 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 15 day of June, 2020.

My Commission Expires Ochober 25, 2023

RECEIVED Office of Oil and Gas

Notary Public

JUN 0 2 2020

### **Surface Owners:**

Anthony W. and Kimberly A. Sizemore 63 Styles Run Road Metz, WV 26585

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

Anthony W. and Kimberly A. Sizemore 63 Styles Run Road Metz, WV 26585

### Water Supply Owners within 1√500'

Anthony W. and Kimberly A. Sizemore 63 Styles Run Road Metz, WV 26585

Calvin & Carol Cecil & Edna Lemasters 6111 Hornet Highway Hundred, WV 26575

Gregory and Adair Wood 621 Mt. Herman Road Wileyville, WV 26581

John Starkey
759 Veterans Highway
New Martinsville, WV 26155

Larry Roberts 543 Delta Road Wileyville, WV 26581

Nathan Sizemore 330 Mt. Herman Road Wileyville, WV 26581

Ray and Cassandra Stoneking 130 Delta Road Wileyville, WV 26581

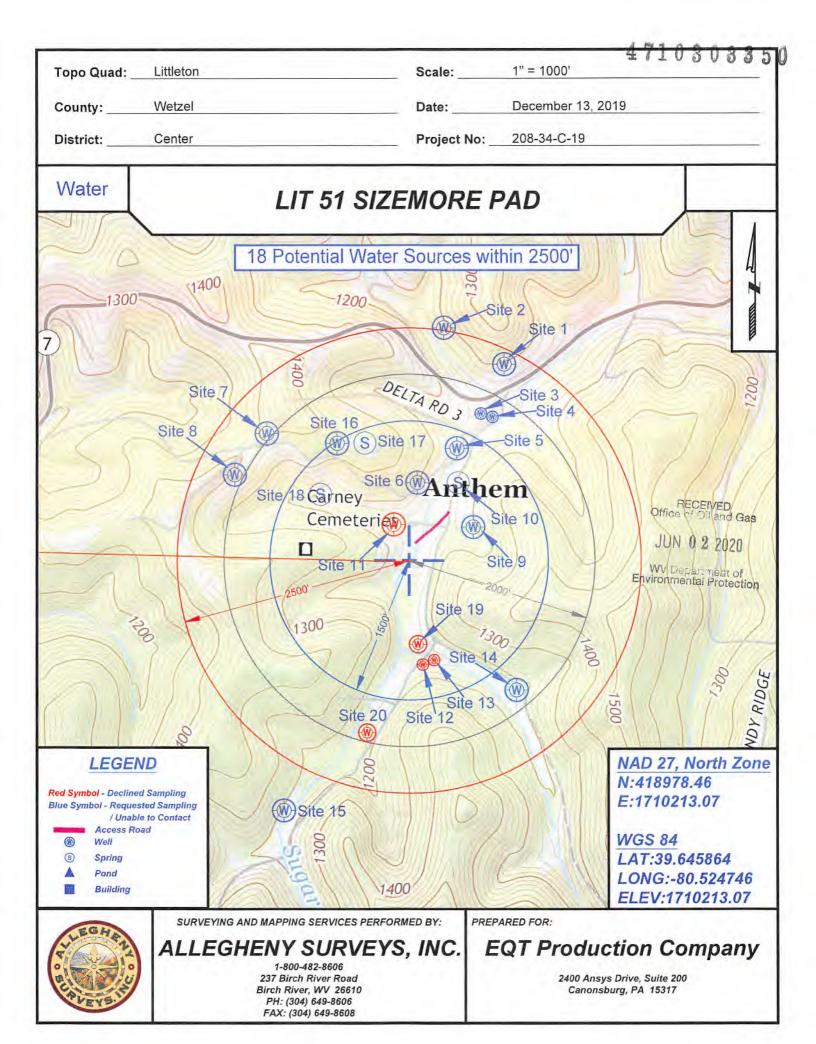
Thomas and Theresa Jones 291 Mount Herman Road \ Littleton, WV 26581

#### **Coal Owner**

Anthony W. Sizemore 63 Styles Run Road \times Metz, WV 26585

New Gauley Coal Corp. 5260 Irwin Road Huntington, WV 25705-3247 RECEIVED
Office of Oil and Gas

JUN 02 2020



# 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 I Date of Notic			d at least TEN (10) days prior to filing a Permit Application Filed: 06/01/2020	permit application.	
Delivery met	hod pursuant t	to West Virginia Code	§ 22-6A-16(b)		
☐ HAND		CERTIFIED MAIL			
DELIVE		RETURN RECEIPT R	FOLIESTED		
Pursuant to W receipt reques drilling a hori of this subsect subsection ma and if availabl Notice is her Name: Anthony	ted or hand del zontal well: Pation as of the day be waived in le, facsimile nureby provided and Kimberly A. Siz	2-6A-16(b), at least ten ivery, give the surface of rovided. That notice give the notice was provided writing by the surface of mber and electronic mainst the the SURFACE C	days prior to filing a permit application, owner notice of its intent to enter upon the en pursuant to subsection (a), section teded to the surface owner: <i>Provided, howover</i> . The notice, if required, shall incled address of the operator and the operator	an operator shall, by certified mail return ne surface owner's land for the purpose of on of this article satisfies the requirements ovever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative.	
Address: 63 St			Address:		
Metz, 1	WV 26585				
			horizontal well on the tract of land as for Easting: Northing: Public Road Access:	well operator has an intent to enter upon flows: 540420.23 4388564.66 CR 7/16	
Quadrangle:	Littleton		Generally used farm name:	Anthony W, and Kimberly A. Sizemore	
Watershed:	Tributary of Sugar I	Run	Generally used farm fiame.		
Pursuant to V facsimile num related to hor	ber and electrizontal drilling	Code § 22-6A-16(b), the onic mail address of the may be obtained from	e operator and the operator's authorize the Secretary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.	
	reby given by		Authorized Representative:	John Zavatchan	
Address:	400 Woodcliff D		Address:	400 Woodcliff Drive	
- 0440aca:	Canonsburg, PA			Canonsburg, PA 15317	
Telephone:	724-746-9073		Telephone:	724-746-9073	
Email:	jzavatchan@eq	t.com	Email:	jzavatchan@eqt.com	
Facsimile:	412-395-2974	Party Co.	Facsimile:	412-395-2974	
	415-300-5014				

#### Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Date of Noti	ce: 05/29/2020	Date Permit Ap	phenton raca:	
Delivery me	thod pursuant to V	Vest Virginia Code § 2	2-6A-16(c)	
CERTI	FIED MAIL		HAND	
	RN RECEIPT REQ		DELIVERY	
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand operation. The not provided by subse horizontal well; and surface affected be required by this surface affected by the su	delivery, give the surfa- ice required by this su ction (b), section ten of d (3) A proposed surfa by oil and gas operation section shall be given to	the owner whose land will be used for besection shall include: (1) A copy of this article to a surface owner who see use and compensation agreements to the extent the damages are computed in the surface owner at the address like the surface owner at the address like the surface owner at the surface owner at the address like the surface owner at the address like the surface owner at the surface owner at the address like the surface owner at the su	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information are land will be used in conjunction with the ont containing an offer of compensation for appensable under article six-b of this chapter, isted in the records of the sheriff at the time
		e SURFACE OWNER		
	W. and Kimberly A. Sizemor		Name:	
Address: 63 5		1	Address:	
Notice is her Pursuant to W	est Virginia Code	§ 22-6A-16(c), notice is	hereby given that the undersigned	well operator has developed a planned
Notice is her Pursuant to Woperation on State: County: District:	eby given: /est Virginia Code the surface owner's West Virginia Wetzel Center	§ 22-6A-16(c), notice is land for the purpose of	f drilling a horizontal well on the trace of	act of land as follows: 540420.23 4388564.66 CR 7/16
Notice is her Pursuant to Woperation on State: County: District: Quadrangle:	eby given: /est Virginia Code ; the surface owner's West Virginia Wetzel	§ 22-6A-16(c), notice is sland for the purpose of	f drilling a horizontal well on the trace.  UTM NAD 83  Northing:	act of land as follows: 540420.23 4388564.66
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### 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.



# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

December 10, 2019

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

> Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

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

Subject: DOH Permit for the James Sizemore Pad, Wetzel County

Sizemore 3H Sizemore 11H Sizemore 5H Sizemore 13H Sizemore 7H Sizemore 15H Sizemore 9H Sizemore 17H RECEIVED
Office of Oil and Gas

JUN 0 2 2020

Wv Department of Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2010-0264 which has been transferred to EQT Production Company for access to the State Road for a well site located off Wetzel County Route 6 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Day K. Clayton

Cc: John Zavatchan

**EQT Production Company** 

CH, OM, D-6

File

# Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	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	RECEIVED
Buffering Agent		584-08-7	Office of Oil and Gas

JUN 0 2 2020

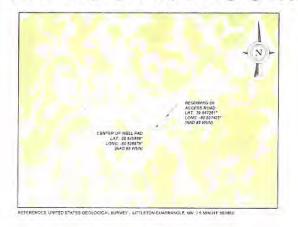
# EROSION & SEDIMENT CONTROL PLAN SIZEMORE 1H WELL PAD MODIFICATION

CENTER DISTRICT, WETZEL COUNTY, WV FOR

### **EQT PRODUCTION COMPANY**









PROJECT NO. 19070-090 JANUARY 2020

### DIEFFENBAUCH & HRITZ, LLC





Office of Oil and Gas

JUN 0 2 2020

WV Department of vironmental Protection

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PROPOSED SITE PLAN	Know vyliat's below Gall before you
PROPOSED RESTORATION PLAN	
S-BUILT ACCESS ROAD PROFILE	
WELL PAD TYPICAL SECTIONS	

DMH 5/28/20



J.

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PENBAUCH & HRITZ, LLC 1915 Cooping No. 38 (st. 2016) Pengantura No. 38 (st. 2016) 194 (195 555) - 30 (195 50)

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TILE SHEET

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