

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Friday, March 03, 2017 WELL WORK PERMIT Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY (A) 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re:

Permit approval for 516213 47-085-10263-00-00

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: 516213 Farm Name: SMITH, CHRISTA J.

U.S. WELL NUMBER: 47-085-10263-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 3/3/2017

Promoting a healthy environment.

API Number: 85-10263

### PERMIT CONDITIONS

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

#### **CONDITIONS**

- 1. 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. The operator shall install noise barriers during drilling and completion activities.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 9. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 10. 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.
- 11. During the casing and cementing process, in the event cement does not return to the surface, the oil and/gas/2017 inspector shall be notified within 24 hours.



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Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

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

TO: EQT Production Company 115 Professional Place P.O. Box 280 Bridgeport WV, 26330

DATE: March 2, 2017 ORDER NO.: 2017-W-2

#### **INTRODUCTION**

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

#### FINDINGS OF THE CHIEF

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

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. EQT is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 115 Professional Place, P.O. Box 280, Bridgeport, West Virginia.
- 3. On October 2, 2015, EQT submitted well work permit applications identified as API#s 47-085-10258, 47-085-10259, 47-085-10260, 47-085-10261, 47-085-10262, 47-085-10263 and 47-085-10264. The proposed wells are to be located on the PUL 97 Pad in Clay District of Ritchie County, West Virginia.
- 4. On October 2, 2015, EQT requested a waiver for Wetland WL-1 and Wetland WL-3 outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API# 47-085-10258, 47-085-10259, 47-085-10260, 47-085-10261, 47-085-10262, 47-085-10263 and 47-085-10264.

#### **CONCLUSIONS OF LAW**

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

#### **ORDER**

West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland WL-1 and Wetland WL-3 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-085-10258, 47-085-10259, 47-085-10260, 47-085-10261, 47-085-10262, 47-085-10263 and 47-085-10264. The Office of Oil and Gas hereby ORDERS that EQT shall meet the following site construction and operational requirements for the PUL 97 well pad:

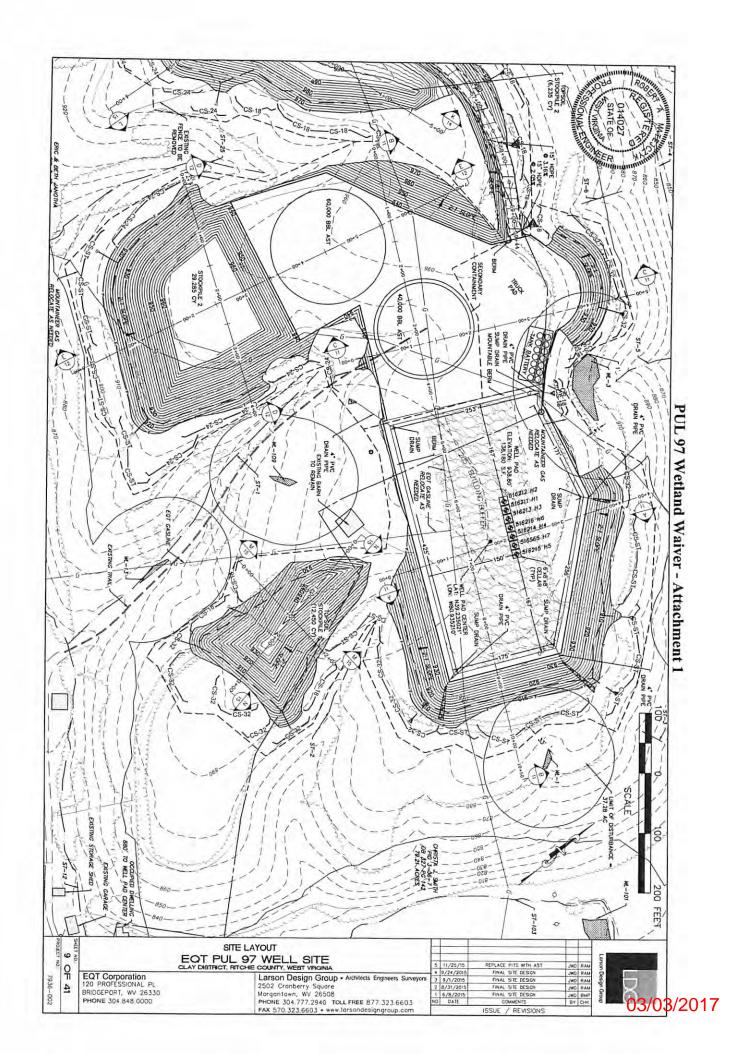
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least a twenty four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland WL-1 shall have a compost sock sediment trap (three socks stacked in pyramidal form) that will prevent any sediment from reaching the wetland or stream from the well pad and adjacent tank pad.
- d. Wetland WL-3 shall have both a layer of 32" compost filter sock and a layer of 18" compost filter sock that will prevent any sediment from reaching the wetland or stream from the well pad and adjacent tank pad.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- i. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- j. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- l. All records from inspections shall be maintained on site for the life of the project and be available upon request.

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

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

Bv:

AMES A. MARTIN, CHIEF



API NO. 47-085 - 10263
OPERATOR WELL NO. 516213
Well Pad Name: PIII 97

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

1) Well Operator: EQT Production Company	306686	Ritchie	Clay	Pullman
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: 516213	Well P	ad Name: PU	L97	
3) Farm Name/Surface Owner: Christa J. Smith	Public Ro	oad Access: S	t Rt 74	
4) Elevation, current ground: 945.0 E	levation, propose	d post-constru	ction: 938.8	
5) Well Type (a) Gas X Oil _		derground Sto		
Other				
(b)If Gas Shallow X	Deep			
Horizontal X				Michael 20/1
6) Existing Pad: Yes or No No				1/24/17
<ol> <li>Proposed Target Formation(s), Depth(s), Antic Marcellus, 6203', 50', 2190 psi</li> </ol>	ipated Thickness	and Expected	Pressure(s):	10 /
8) Proposed Total Vertical Depth: 6203				
9) Formation at Total Vertical Depth: Marcellus	3			
10) Proposed Total Measured Depth: 12382				
11) Proposed Horizontal Leg Length: 5257				
12) Approximate Fresh Water Strata Depths:	46,74,177,273			
13) Method to Determine Fresh Water Depths: 1	rom offset wells			
14) Approximate Saltwater Depths: None report	ted			•
15) Approximate Coal Seam Depths: 248,550				
16) Approximate Depth to Possible Void (coal mi	ine, karst, other):	None reporte	ed	
17) Does Proposed well location contain coal sear directly overlying or adjacent to an active mine?	ns Yes	N	10 X	
(a) If Yes, provide Mine Info: Name:				
Depth:				
Seam:				
Owner:				_

API	NO.	47-	085	-	10263

OPERATOR WELL NO. 516213
Well Pad Name: PUL97

18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	605	605	548 ft^3 / CTS
Coal					1000		01011 07 010
Intermediate	9 5/8	New	A-500	40	2250	2250	888 ft^3 / CTS
Production	5 1/2	New	P-110	20	12382	12382	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40'	
Liners						above top perf or 80° inclination.	

MDC 1/24/17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal						2014-17	1.10
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700		2 22 2	
Liners						-	

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:		

WW-6B	
(10/14)	

API NO. 47- 085 -	10263
OPERATOR WELL	NO. 516213
Well Pad Name:	PUL97

1/24/17

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 to an approximate depth of 3771'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 37.28
- 22) Area to be disturbed for well pad only, less access road (acres): 14.82
- 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 (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries.

Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender) water lost to formation. 60 % Calculm Carbonate. Acid solubility.

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: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

\*Note: Attach additional sheets as needed.

Well

516213(PUL97H3)

**EQT Production** 

**Pullman Quad** Ritchie County, WV

Azimuth 160 Vertical Section

Note: Diagram is not to scale

414	Top Base			Casing and Cementing			Deepest Fresh Water	er: 273'
Formations	TVD TVD			Туре	Conductor	Surface	Intermediate	Production
Conductor	40			Hole Size, In.	26	17 1/2	12 3/8	8 1/2
			7	Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Base Fresh Water	273	111111		Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
2.1.200.2		111111		Depth, MD	40'	605'	2,250'	12,382'
Surface Casing	605	4	<b>A</b>	Weight	78.6#	54.5#	40#	20#
2-12-12-12-1		2.11		Grade	A-500	J-55	A-500	P-110
Base Red Rock	1026	1111		New or Used	New	New	New	New
Maxton	1524 - 1553	1111		Burst (psi)	1378	2,700	3,950	12,640
Big Lime	1728 - 1877			Cement Class	A	A / Type 1	A / Type 1	A/H
	1111 1111	1441		Cement Yield	1.18	1.19	1.19	1.123 / 2.098
Weir Intermediate Casing	2081 - 2200 2250			Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Gantz	2284 - 2312	2311		Method	Displacement	Displacement	Displacement	Displacement
Fifty foot	2392 - 2438		X	Est. Volume (cu ft)	60	548	888	2.440
Thirty foot	2479 - 2522							Calcium Carbonate, Fluid Loss,
Gordon	2528 - 2604			Market and the second second		Callatina		Extender, Dispersent, Viscosifie
Forth Sand	2624 - 2686	111		Possible Additives	N/A	Calcium	Calcium Chloride	Defoamer, POZ, Bonding Agent
Bayard	2748 - 2817	- 11				Chloride		Retarder, Anti-Settling/Suspensio Agent
Warren	3151 - 3217							Agent
Speechley	3243 - 3324	111						
Riley	4319 - 4341	44						
Benson	4693 - 4734	111						
Alexander	4917 - 5002	Mal-	KOP @ 3,771'					
Sonyea	5909 - 6018	111						
Middlesex	6018 - 6070	11						
Genesee	6070 - 6125	- 11						
Geneseo	6125 - 6160	1.1						
Tully	6160 - 6174	11						
Hamilton	6174 - 6183	11						
Marcellus	6183 - 6232	11						- 14
Production Casing	12382 MD	MANAGES OF SHIP AND	A. C.	The second secon	Note that the second	STREET, STREET	STREET, THE STREET, ST	WELF
Onondaga	6232		Barrier Commence	over the contract of the contr	HAD THE OWNER OF THE OWNER OWNER OF THE OWNER OWN	Contract state has been		
Ollollaaga	0232			The state of the s	CONTRACTOR STATE	CONTRACTOR NAMED IN COLUMN TO SECOND		26.0
		Land curve @	6,203' TVD			Est. TD @	6.20	3' TVD
			7,124' MD			555.78.5	12,382	
posed Well Work:		_						

Drill and complete a new horizontal well in the Marcellus formation.

Drill the vertical to an approximate depth of 3771'.

Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

5,257' Lateral

**EQT Production** 

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: PUL97

Ritchie County, WV

1/9/17

#### **Purpose**

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Ritchie County, WV prior to hydraulic fracturing at the following EQT wells on PUL97 pad: 516211, 516212, 516213, 516214, 516215, 516216, 516565.

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 1,500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

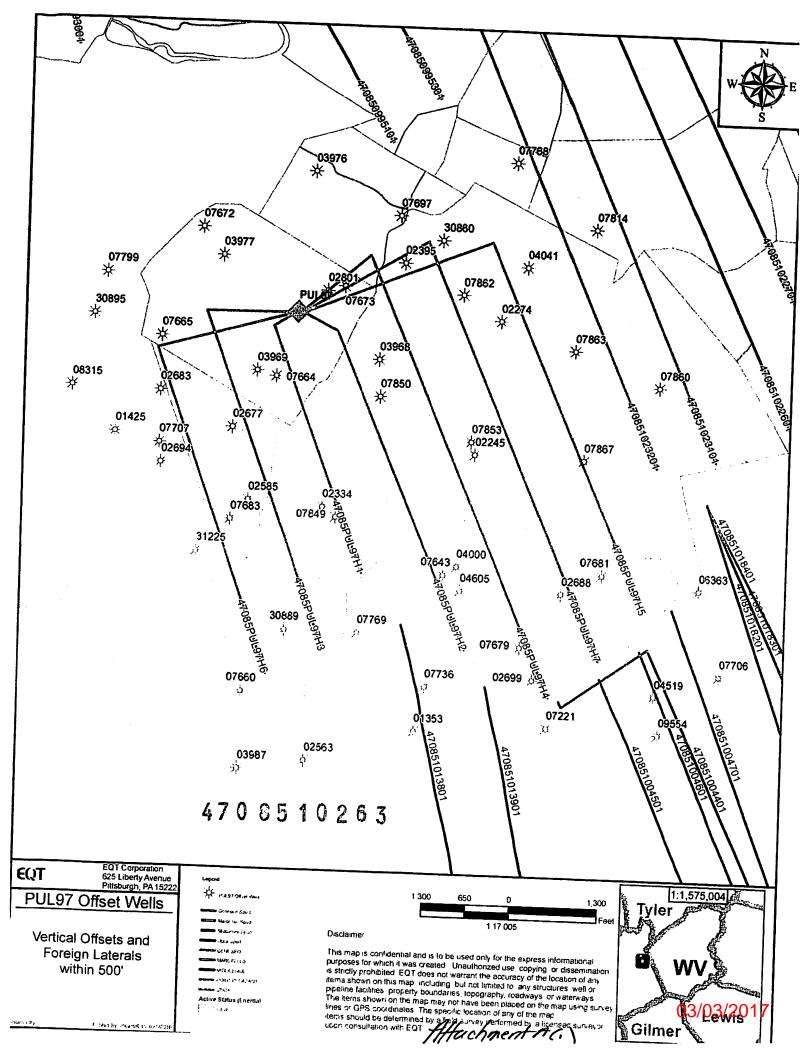
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

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

#### 2. Reporting

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



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	0/2//1989	77/1000	7/22/1080	7/12/1989	7/30/1989	8/16/1988	8/27/1988	6/12/1988	11/5/1988	0/15/1988	8/10/10ee	10/30/1997	10/11/1097	9/29/1987	10/31/1988	9/20/1987	9/15/1987	11/23/1988	8/22/1987	8/17/1987	7/24/1987	5/28/1987 RI	8/5/1985	12/7/1984	0			6/3/1926	10/22/1919	3/8/1918	10/14/1917	6/9/1916	3/20/1916	10/3/1963	5/1/1963	4/19/1963	3/2/1963	2/15/1963	1/6/1963	10/16/1962	8/31/1962	8/11/1961	5/10/1961	1/22/1961	10/26/1960	9/30/1952	10/16/1951	us date
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	ECA	ECA	ECA	, r	E A E	BEACON	ECA	ECA	ECA	ECA	BET RO	EAE	ECA	ECA	ECA	ECA	ECA	ECA		ני לי	EC A	FCA	STAI NAKER ENERGY	BIG A OII	PETROLEUM DRILLING	HAUGHT	MURVIN OIL	EPC	EQUITRANS	EPC	EQUITRANS	MOUNTAIN ST (OLD FOIL	MOUNTAIN ST (OLD FOL	MOUNTAIN STATE														
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	40 ) 45 d	39.7400	39 2317	39 2268	39.2364	39 2222	39 2413	10.5345	1000	305.0	39.2209	39.2390	34 2266	39.2248	39.2218	39.2361	39.2383	39 2339	34 2324	39.2197	39 2246	34 218b	547, 55	39 2240	39.2200	20 1300	39 2250	9017.60	39.2372	20.2377	30 3305	30.7332	39 2359	39.2205		39.2240	39 2317	39 2303	39 2274	39 2170	) 39 2371						_	
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2456.04	3182.76	1736.43	3057.65	2057.00	2875 66	4772 36	3909 13	5793.00	2817.64	8187.47	2065.33	3205.56	5907.29	5892.52	/84.//	18/3.43	70.100	7051 57	1004 16	70.507	4404.87	7096 79	7184 76	4723.74	7692.16	3453.43	4398,66	6747.47	1382.62	2076.76	1063.58	1386.58	531.59	6394.50	3010.13	5660 97	1956.75	1057.07	7857.07	1751.40	1731 40	2879 38	3001.81	3335 74	3229 28	6368.67	Distance form Pad to	•

Attachment A(2)

03/03/2017

4708507863 GAS 4708507867 GAS 4708508315 GAS 4708509554 GAS 4708530860 GAS 4708530899 GAS 4708530895 GAS 4708531225 GAS 4708507814 GAS 4708507860 GAS	9/8/1989 10/14/1989 4/29/1994 8/25/2008 2/8/1917 8/5/1920 10/7/1924 11/12/1917 10/22/1988 RILEY 9/15/1989 DEVONIAN	07863 ECA 07867 ECA 08315 E A E 09554 KEY OIL 30860 PGH & V 30889 PGH & V 31225 EPC 07814 ECA 07860 ECA	80 9204 80 9472 80.9161 5AS 80 9280 5AS 80.9358	39 2347 39 2253 34 2387 ALEXANDER	922.0000 879.0000 1022.0000 1150.0000 790.0000 1.0000 988.0000	-3612.0000 -4317.0000 -4178.0000 -4310.0000 -1026.0000 -1984.0000 2000.0000 1027.0000	5196.0000 5200.0000 5460.0000	4129.87 4740.54 3514.58 8149.81 2381.88 4662.01 3006.33 3825.41 4571.26 5456.40
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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) 926-0462 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 I (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Coment)

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

ACTURES ( )

**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	í	2021
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE	Ś	
THE OPERATIONAL	ś	
REGULATIONS OF CEMENTING OIL	Ś	
AND GAS WELLS	Ś	

#### 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.

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

API Number	47 - 85	<b>- 10263</b>
Open	ator's Well No	516213

## 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 306688
Watershed (HUC 10) North Fork Hughes River Quadrangle Pennsboro
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? n/a
Proposed Disposal Method For Treated Pit Wastes:  Land Application  No   V   It so, what ml.? m/a
Underground Injection (UIC Permit Number 0014, 8462, 4037  Reuse (at API Number Various
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then Will closed loop system be used? If so, describe:
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud
Additives to be used in drilling medium? See Attached
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attached List
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor
Subscribed and sworn before me this 24th day of tebruary 20 17  Office of Oil and Gas  OFFICIAL SEAL  STATE OF WEST VIRGINIA STATE OF WES
03/03/2017

TOT	AT 1	4.00	OF
API	Number	4/-	00

- 10263

Operator's Well No. 516212

## 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) North Fork Hughes River	Quadrangle Pennsboro
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used? Yes No No	
If so, please describe anticipated pit waste: Flowbar	ck water and residual solids
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 60
Proposed Disposal Method For Treated Pit Wastes:	No I If so, what ml.? 60
Land Application Underground Injection (UIC Perm Reuse (at API Number Various Off Site Disposal (Supply form WV Other (Explain	it Number_0014, 8462, 4037
Will closed loop system be used? If so, describe:   Yes, The closed Will closed loop system be used? If so, describe:	loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then sportation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizon	tal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. S	
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-Landfill or offsite name/permit number? See Attached	
West Virginia solid waste facility. The notice shall be provided where it was properly disposed.	Gas of any load of drill cuttings or associated waste rejected at any I within 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Violations o law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the f any term or condition of the general permit and/or other applicable wexamined and am familiar with the information submitted on this d on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant ility of fine or imprisorment.
Subscribed and sworn before me this 9 day of	20_17
My commission expires	STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 My Commission Expires Aug. 24, 2022

Form WW-9

		Operato	or's Well No.	516213
Proposed Revegetation Treat	ment: Acres Disturbed	45.38	Prevegetation pH	6.2
Lime 3	Tons/acre or to	correct to pH	6.5	
Fertilize type	Granular 10-20-20			
Fertilizer Amount	1/3 lbs/ad	cre (500 lbs minimum)		
Mulch	2	Tons/acre		
		Seed Mixtures		
Tempora	iry		Permanent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/ 15	/acre
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
Photocopied section of involve	ed 7.5' topographic sheet.			
Plan Approved by:	Den Indi	See to	Mich	0 4
Comments:	see la	2000	of the	ael 1
less the	9 V mul	er all a	u area	mo
( of during	· souplele	aprolem	. Sound	issi Aat
walls need 4	obe constr	ucted arou		ייין בהו
			*	
The char				
itle: of rgas	inspector	Date:	0-13-15	1/8
Field Reviewed? (	) Yes	(	) No	

#### WW-9

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

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

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

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

# EQT Production Water plan Offsite disposals for Marcellus wells

#### CWS TRUCKING INC.

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

#### LAD LIQUID ASSETS DISPOSAL INC.

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

#### TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

#### Waste Management - Meadowfill Landfill

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

#### Waste Management - Northwestern Landfill

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

#### **BROAD STREET ENERGY LLC**

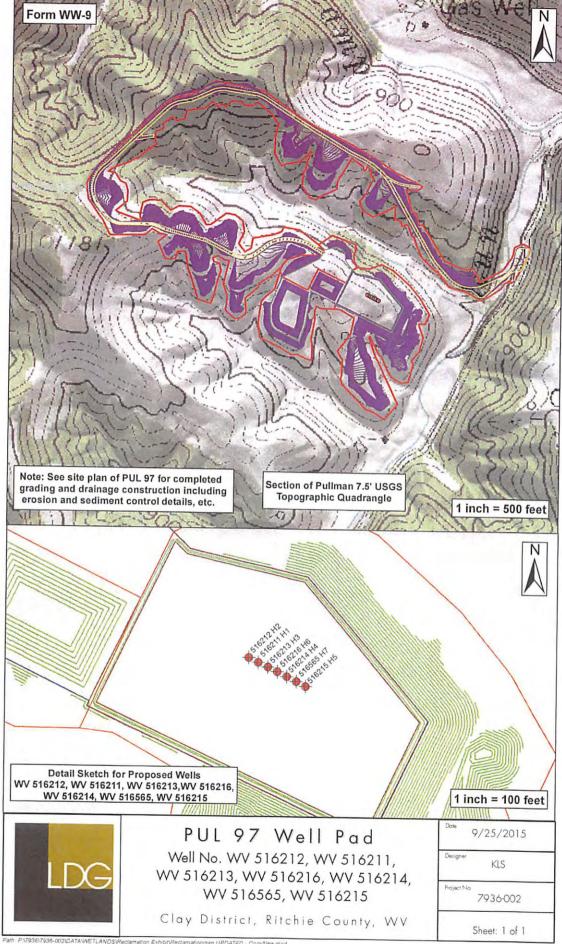
37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

#### TRIAD ENERGY

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

#### KING EXCAVATING CO.

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



Path. P.1793617936-002/DATAIWETLANDS/Reclamation Exhibit/Reclamationmap UPDATED - CopyNew mxd

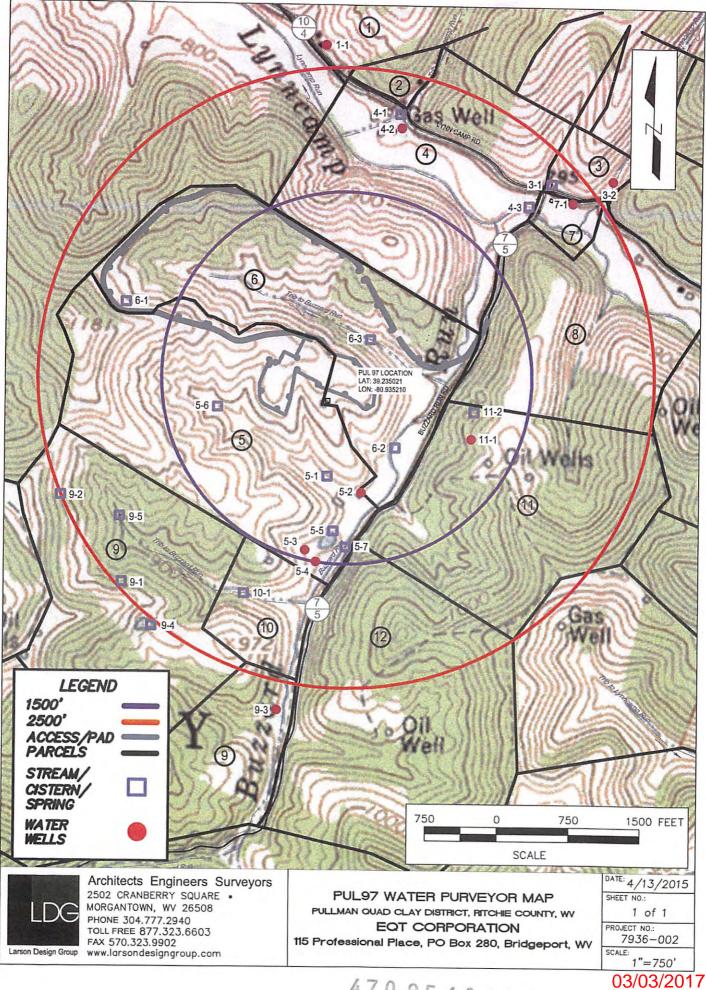


## Site Specific Safety Plan

## <u>EQT</u> PUL97 Unit Pad

# Pullman Ritchie County, WV

_516211	516212	516213	For Wells: 516214	516215	516216	_516565
EQT Production Title  (-1.7- Date	Spen 17	ursor	Date Prepare	d: January 9,  Muche WV Oil and  Title	2017 Gas Inspector	4
Dale				Date		



#### **EQT PRODUCTION COMPANY** WELL NO. 516213 - Ashley E. Ness, Jr. et al PAGE 1 OF 2

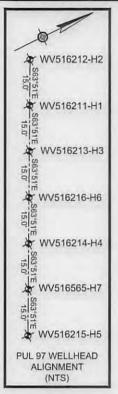
UTM NAD83	TOPHOLE	N-4342873.62	E-505588.67
ZONE 17N	LANDING PT	N-4342860.67	E-505167.83
(METERS)	BOT HOLE	N-4341361.46	E-505732.06
NAD27 SPC	TOPHOLE	N-270974.01	E-1593420.28
FEET NORTH	LANDING PT	N-270954.62	E-1592038.58
ZONE	BOT HOLE	N-266003.88	E-1593807.99
NAD27 GEO	TOPHOLE	N039.235066	W080.935414
LAT(N)	LANDING PT	N039.234952	W080.940290
LONG(W)	BOT HOLE	N039,221438	W080.933766

MINERAL OWNERS	AREA (Ac±)	LEASE #
Overstreet Family Trust, et al	174	1005910
Orma M. Johnson, et al	627	105675
Heirs of Visa C. Snodgrass Partnership, et al	58.0021	1005922

	PROPER	RTY TIES
L1	S31°32'W	1526.3'
L2	N71°31'E	1179.4

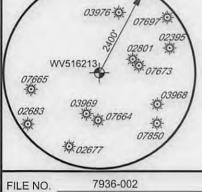
HORIZ	ONTAL BORE GE	EOMETRY
TH-LP	AZ 269.1960°	1381.8'
LP - BH	AZ 160.3330°	5257.4

TOTAL HORIZONTAL LENGTH - 7,408



	PROPERTIE	S CROSSED BY BC	RE		
TAB	OWNER	DISTRICT	TAX MAP #	PARCEL#	ACREAGE
1	CHRISTA J. SMITH	CLAY	3-36	P/O #7	69.88 Ac±
2	MICHAEL L. DAVIS	CLAY	3-36	P/O #7	79.21 Ac±
3	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-36	15	67 Ac±
4	ERIC H. & BETH S. JANOTHA	CLAY	3-36	16	18.18 Ac±
5	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-36	29.1	20.693 Ac±
6	FRANK J. OSTROWSKY	CLAY	3-36	18	89.25 Ac±
7	TERRY LEE RICHARDS	CLAY	3-36	30	121.5 Ac±

TAB	OWNER	DISTRICT	TAX MAP #	PARCEL#	ACREAGE
A	ELF, LLC	CLAY	3-36	6	184.724 Ac
В	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-36	14.1	81 Ac±
С	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-36	29	65.407 Act
D	TERRY LEE RICHARDS	CLAY	3-36	30	121.5 Ac±
E	ROBERT F. & IRENE D. PUGH	CLAY	3-36	31	51.9 Ac±
F	PEGGY WINCE	CLAY	3-36	32	72.63 Ac±
G	PEGGY WINCE	CLAY	3-36	33	95.788 Ac
Н	PEGGY WINCE	CLAY	3-36	19	69.5 Ac±
1	JOHN R. & ROSE MARIE SUDOL	CLAY	3-36	17	59.56 Ac±
J	FAITH E. COTTRILL	CLAY	3-36	8.2	51.88 Ac±
K	FOUSS FARMS, LLC	CLAY	3-36	3.4	70.65 Ac±
L	TERRY LEE RICHARDS	CLAY	3-40	5	50 Ac±
M	ROBERT F. & IRENE D. PUGH	CLAY	3-40	6	86.5 Ac±



07687

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 OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF CENSES OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF LAW AND THE REGULATIONS ISSUED AND REPORTED BY OF LAW AND THE REGULATIONS ISSUED BY OF LAW AND THE REGULATION REQUIRED BY OF LAW AND THE REGULATION REGULATION REQUIRED BY OF LAW AND THE REGULATION REGULATION REQUIRED BY OF LAW AND THE REGULATION REQUIRED BY OF LAW AND THE REGULATION REGULATION REQUIRED BY OF LAW AND THE REGULATION REGULA DMS DRAWN BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION SCALE 1 INCH = 2000 FEET 1 IN 2500 MIN DEGREE OF ACCURACY\_

No. 2034 STATE OF TO Y VIRGINIT

(+) DENOTES LOCATION OF WELL



W.V.D.E.P. OFFICE OF OIL AND GAS 601 57TH STREET CHARLESTON, WV 25304

MAL SUNAL SUNAL 1-5-2017 DATE OPERATORS WELL NO. WV516213

COUNTY

API WELL NO. 085 41

ON UNITED STATES
TOPOGRAPHIC MAPS

OIL 🗆 GAS X

LIQUID INJECTION

WASTE DISPOSAL

WELL TYPE:

IF "GAS",

PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

STORAGE DEEP

SHALLOW X

(PROP) 938.8

LOCATION: WATERSHED BUZZARD RUN - NORTH FORK HUGHES RIVER

PRODUCTION X

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY)

ELEVATION (EXIST) 945.0

STATE

COUNTY/DISTRICT\_RITCHIE COUNTY - CLAY DISTRICT

QUADRANGLE PULLMAN - SEC. 2

ACREAGE 69.88 AC (DEED)

03/03/2017

SURFACE OWNER CHRISTA J. SMITH

OIL & GAS ROYALTY OWNER ASHLEY E. NESS JR., ET AL

ACREAGE 150 AC

\_LEASE#\_105410

PROPOSED WORK:

DRILL X

CONVERT

DRILL DEEPER

REDRILL |

FRACTURE OR STIMULATE X

PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION

PLUG & ABANDON

TARGET FORMATION:

MARCELLUS

ESTIMATED DEPTH 6183 DESIGNATED AGENT REX C. RAY

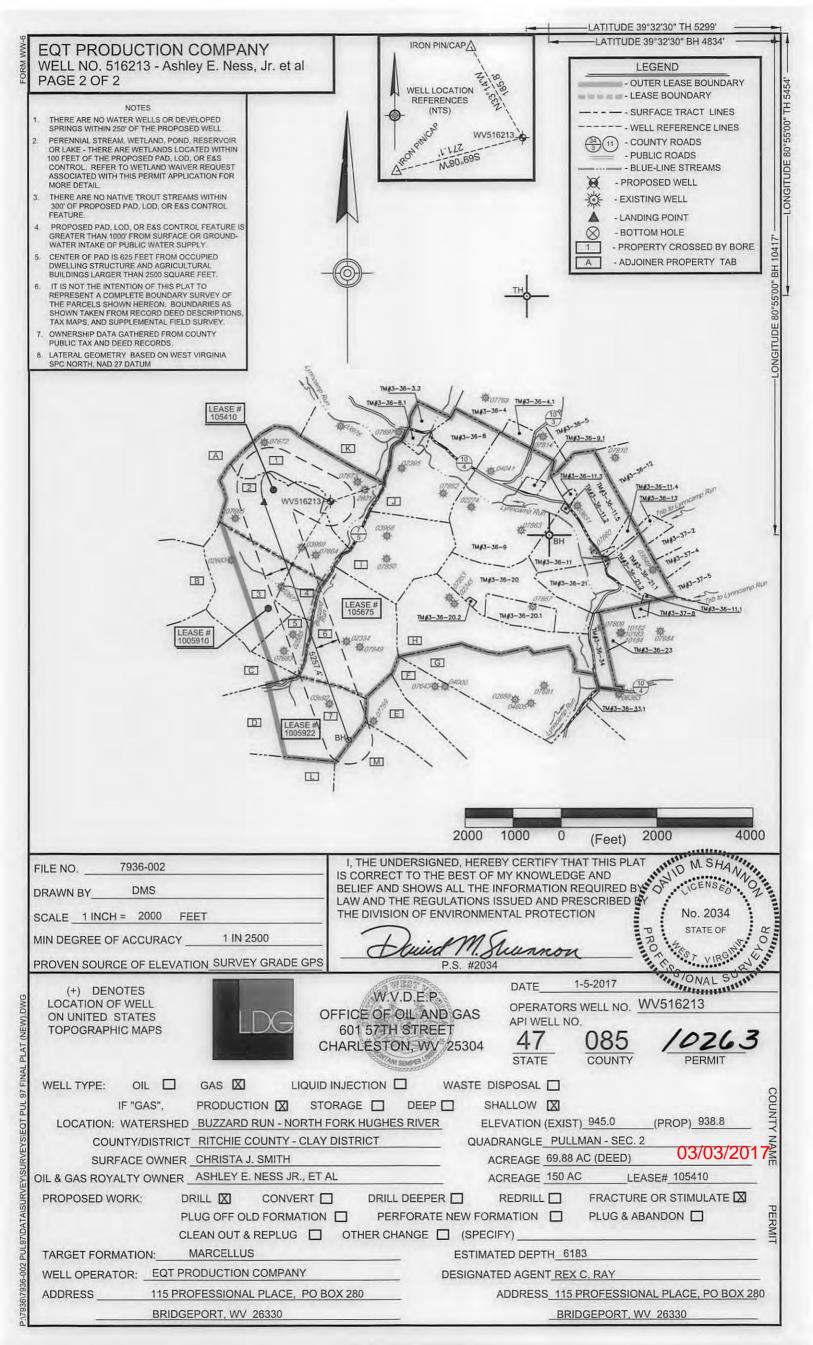
WELL OPERATOR: \_EQT PRODUCTION COMPANY **ADDRESS** 

115 PROFESSIONAL PLACE, PO BOX 280

BRIDGEPORT, WV 26330

ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280

BRIDGEPORT, WV 26330



WW-6A	1
(5/13)	

Operator's	Well No.	516213
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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

#### see attached

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

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

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

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

Well Operator: EQT Production Company

By: Victoria J. Roark

Its: Permitting Supervisor

Page 1 of 2

ease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Povoity Poolsto
105410	Ashley E. Ness Jr., et al (current royalty owner)		Royalty Book/P
•	Sarah Wilson, et al (original lessor)	W.A. Flanagan	LB30/17
	W.A. Flanagan	J. L. Newman	LB58/36
	J. L. Newman	The Philadelphia Company of West Virginia	LB58/36
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	DB55/36
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company	DB 126/
	Equitable Gas Company	Equitrans, Inc.	LB 201/2
	Equitrans,Inc.	Equitrans,LP.	AB269/1
	Equitrans,LP	Equitable Production/Eastern States, Inc.	DB234/8
	Equitable Production/Eastern States, Inc.	Equitable Production Company	CB6/443
	Equitable Production Company	EQT Production Company	CB6/443
1005910	Overstreet Family Trust, et al (current royalty owner)		••
	A. C. Primm, et al	E. A. Ballengee	LB94/32
	E. A. Ballengee	Eastern American Energy Corp.	LB97/360
	Eastern American Energy Corp.	Energy Corporation of America	DB306/8
	Energy Corporation of America	Antero Resources Corporation	LB268/10
	Antero Resources Corporation	EQT Production Company	LB277/10
	Eber C Tallman (original lessor)	Eastern American Energy Corporation	199/310
	Eastern American Energy Corporation	Eastern Corporation of America	306/836
	Eastern Corporation of America	Antero Resources Appalachian Corporation	257/377
	Antero Resources Appalachian Corporation	Energy Corporation of America	263/153
	Energy Corporation of America	Antero Resources Corporation	268/1049
	Antero Resources Corporation	EQT Production Company	DB298/14
105675	Orma M. Johnson, et al (current royalty owner)		
	E. J. Taylor & Laura Taylor, his wife (original lessor)	J. L. Newman	** LB30/149
	J. L. Newman	The Philadelphia Company of West Virginia	LB91/265
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company	DB55/362
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company	DB 126/4
	Equitable Gas Company	Equitrans, Inc.	LB 201/2
	Equitrans,Inc.	Equitrans,LP.	AB269/18
	Equitrans,LP	Equitable Production/Eastern States, Inc.	DB234/83
	Equitable Production/Eastern States, Inc.	Equitable Production Company	CB6/443
	Equitable Production Company	EQT Production Company	CB6/443
<u>1005922</u> ✓	Heirs of Visa C. Snodgrass Partnership, et al (current royalty	owner)	
	Mary E. Grovemiller, f/k/a Mary E. Weiford (original lessor)	Antero Resources Corporation	LB276/27
	Antero Resources Corporation	EQT Production Company	DB298/14

<sup>\*\*</sup> We will pay a minimum one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced, or marketed from the well.



October 18, 2016

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

Re: PUL97 well pad, well number (516216) Clay District, Ritchie County

Dear Mr. Martin,

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

Sincerely,

Vicki Roark

Permitting Supervisor-WV

WW-PN (11-18-2015)

## Horizontal Natural Gas Well Work Permit Application Notice By Publication

#### Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of any thirty day period.  Applicant: EQT Production Company Well Number: 516213  Address: 115 Professional Place  Bridgeport, WV 26330  Business Conducted: Natural gas production.	
The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of any thirty day period.  Applicant: EQT Production Company  Well Number: 516213  Address: 115 Professional Place  Bridgeport, WV 26330  Business Conducted: Natural gas production.  Location —	
Address: 115 Professional Place  Bridgeport, WV 26330  Business Conducted: Natural gas production.	
Bridgeport, WV 26330  Business Conducted: Natural gas production.	_
Business Conducted: Natural gas production.	
Location –	
State: WV County: Ritchie	
District: Clay Quadrangle: Pullman	
UTM Coordinate NAD83 Northing: 4,342,873.62	
UTM coordinate NAD83 Easting: 505,588.67	
Watershed: Buzzard Run	

#### **Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm\_conus.php

#### **Electronic notification:**

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <a href="http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx">http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx</a> to sign up.

#### **Reviewing Applications:**

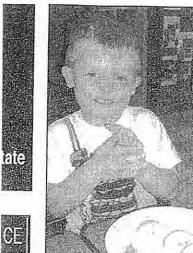
Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to <u>DEP.comments@wv.gov</u>.

#### **Submitting Comments:**

Comments may be submitted online at <a href="https://apps.dep.wv.gov/oog/comments/comments.cfm">https://apps.dep.wv.gov/oog/comments/comments.cfm</a>, or by letter to Permit Review, Office of Oil and Gas, 601 57<sup>th</sup> Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx



Students in Miss Moran's preschool class at Harrisville Elementary have been learning about apples. The boys and girls tasted red, green and yellow apples to see which one they liked best. Pictured is Brylon McClaskey trying his apples.



on

18

e, WV

ad

Wilson's Heavy Duty Wrecker Service

Pennsboro Frank Wilson, Owner 304-659-2803

### LEGAL ADVERTISEMENT

#### NOTICE OF ADMINISTRATION & NOTICE TO CREDITORS AND BENEFICIARIES

Notice is hereby given that the following estates have been opened for probate before the County Commission of Ritchie County, West Virginia, Attn: Probate/County Clerk's Office, 115 E. Main St., Room 201, Harrisville, WV 26362. Any person seeking to impeach or establish a will must make a complaint in accordance with provisions of West Virginia Code 41-5-11 through 13. Any interested person objecting to the qualifications of the personal representative, or the venue or jurisdiction of the court, shall file notice of an objection with the County Commission within 60 days after the date of the first publication or within 30 days of the service of the notice, whichever is later. If an objection is not filed timely, the objection is forever barred. Any person interested in filing claims against an estate must file them within 60 days of the date of first publication, and in accordance with West Virginia Code 44-2 and 44-3(a).

Settlement of the estates of the following named decedents will proceed without reference to a fiduciary commissioner unless within sixty (60) days from the first publication of this notice a reference is requested by a party of interest or an unpaid creditor files a claim and good cause is shown to support reference to a fiduciary commissioner

The date of the first publication of this Notice is: September 16, 2015.

Claim Deadline Date: Sunday, November

Name of Decedent, Name & Address of Personal Representative, and Attorney,

Betty Elaine Hatfield - Kathy E. Hatfield, 1279 Pullman Rd., Harrisville, WV 26362

Jimmie Dale Davis - Lenise D. Sellers P.O. Box 52, Pennsboro, WV 26415

Arley Hayhurst - Arley David Hayhurst, 36 Maset Place, White Hall, WV 26554

Denzil Ray Newlon - Ruby P. Newlon, 12562 Pullman Rd., Pennsboro, WV 25415

Alva Lee Doll - Jennetta L. Doll, 310 Maple Ave., Pennsboro, WV 26415

Claude James Hall - Letha Diane Blankenship, F.O. Box 419, Cyclone, WV

> Tracie D. McDonald Clerk of the County Commission of Ritchie County, West Virginia

Subscribe Today! Call 304-643-2221.

## LEGAL ADVERTISEMENT

(5-04-2012)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or proposed to be located a Class II legal advertisement.

Paper: Ritchie Gazette Public Notice Date: 9/16/15 & 9/23/15

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day

Well Number: 516212, 516211, 516213, 516216, 516214, 516565, 516215 Applicant: EQT Production Company Address: 115 Professional Place,

P.O. Box 280 Bridgeport, WV 26330 **Business Conducted** Natural gas production.

Location -

State: West Virginia County: Ritchie District: Clay Quadrangle: Pullman UTM Coordinate NAD83 Northing: 4,342,877.51; 4,342,875.56; 4,342,873.62; 4,342,871.67; 4,342,869.73; 4,342,867.78; 4.342.865.83

UTM coordinate NAD83 Easting: 505,580.39; 505,584.53; 505,588.67; 505,592.80; 505,596.94; 505,601.07; 505,605,21

Watershed: Buzzard Run

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep. wv.gov/convert/llutm\_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/ Insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.oog@wv.gov.

**Submitting Comments:** Comments may be submitted online at

### LEGAL ADVERTISEMENT

https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Reviews
Office of Oil and Gas, 801 57th Street, SE Charleston, WV 25304, Please reference, the county, well number, and operator when using this option.

Regardless of format for comments submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling-visit: www.dep.wv.gov/oil-and-gas/pages/ default.aspx

#### NOTICE OF ADMINISTRATION & NOTICE TO CREDITORS AND BENEFICIARIES

Notice is hereby given that the following Notice is nerely given that the rollowing, estates have been opened for probate-thefore the County Commission of Ritchie-County, West Virginia, Attn: Probate/County Clerk's Office, 115 E. Main St., Room 201, Harrisville, WV 26362. Any person seeking to impeach or establish a will must make a complaint in accordance with provisions of West Virginia Code 41-5-11 through 13. Any interested person objecting to the multifeations of the personal operating to the multifeations of the personal operations. 13. Any interested person objecting to the qualifications of the personal representative, or the venue or jurisdiction of the court, shall file notice of an objection with the County! Commission within 60 days after the date of. the first publication or within 30 days of the service of the notice, whichever is later. If an objection is not filed limely, the objection is forever barred. Any person interested in filing claims against an estate must file themwithin 50 days of the date of first publication, and in accordance with West Virginia Code 44-2 and 44-3(a).

The date of the first publication of this Notice is: September 16, 2015.

Claim Deadline Date: Sunday, November 15, 2015

Name of Decedent, Name & Address of Personal Representative, Fiduciary Commissioner and Attorney, if any:

Margery Ann Talkington - Irvin D., Talkington, 139 McDougal Dr., Pennsboro,-WY 26415; Jarvin D. Talkington, 83 Summit: Dr., Williamstown, WY 26187; Ira M. Haught, Fiduciary Commissioner, 210 E. Main St., Harrisville, WY 26362

Darrell Trent Gorman - William D. Gorman, 510 Rock Run Rd., St. Marys., WV 26170: Rodney C. Windom. Fiduciary Commissioner, 101 E. Main St., Harrisville.

Tracie D. McDonald Clerk of the County Commission of Ritchie County, West Virginia

c9/16-23

## wide Classified Network

ers Across West Virginia

9 for Details.

20 Hedge Lane, Af- benefits? We Can Help! WIN or Pay 22920. September 18th- Nothing! Contact Bill Gordon & Assolempseyandco.com; Call ciates at 1-800-912-3915 to start your application today!

# The Collecting Corner

#### by Larry Cox Belt Buckle

Q: I was recently given a Wells Fargo belt buckle that is identified as being made by Tifby Mary Sieber and published by Krause Books.



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

			4/085	10263
Date of No	otice Certification: 10-1-		PI No. 47085	<u> </u>
			perator's Well No /ell Pad Name:	516213 PUL97
			_	1 0207
	been given:			
olow for th	the provisions in West Virginia	Code § 22-6A, the Operator has provided the	e required parties with	the Notice Forms listed
State:	e tract of land as follows: WV	UTWAND OF THE		
County:	Ritchie	UTM NAD 83 Easting:		505,588.67
District:	Clay	UTM NAD 83 Northing:		4,342,873.62
Quadrangle:	Pullman	Public Road Access:		ST RT 74
Watershed:	North Fork of Hughes River	Generally used farm name:		Christa J. Smith
		o), every permit application filed under this se		
of this article  Pursuant to  hat the Ope	e have been completed by the ap	Operator has attached proof to this Notice		OOG OFFICE USE
	OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUC	SE NO	RECEIVED/NOT REQUIRED
▼ NOTICE	E OF ENTRY FOR PLAT SU	RVEY or NO PLAT SURVEY WAS	S CONDUCTED	RECEIVED
- NOTICE	E OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SU WAS CONDUCTED OR		RECEIVED/NOT REQUIRED
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER	
▼ NOTICE	E OF PLANNED OPERATIO	N		RECEIVED
▼ PUBLIC	NOTICE			
1 ODLIC	THOTIOL		1.0	RECEIVED

#### Required Attachments:

**▼** NOTICE OF APPLICATION

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.

RECEIVED

Certification of Notice is hereby given:

 Well Operator:
 EQT Production Company

 By:
 Victoria J. Roark

 Its:
 Permitting Supervisor

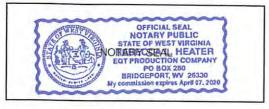
 Telephone:
 304-848-0076

 Address:
 P.O. Box 280

 Bridgeport,
 WV 26330

 Facsimile:
 304-848-0040

 Email:
 vroark@eqt.com



Subscribed and sworn before me this 8th day of October .2015

Notary Public My Commission Expires 4-7-20

#### 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.



## Table 1 - Water Source Identification

EQT Well Pad Name: PUL 97 Submittal Date: EQT Well Number:	
Survey / Engineering Company: Larson Design Group*	
Site Number:1 Distance from Gas Well (feet):2,852'+_  Surface Owner / Occupant: Dale W Moore III	☐ Landowner Requested Sampling
Address: 1977 Lynn Camp Rd Phone #: 304-659-2734	☐ Landowner Decline Sampling
Pennsboro, WV 26415  Field Located Date: 3-11-15 Owner home during survey (yes/no): No	Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 1-1 39.242436, -80.936131 (decimal degrees – NAD 83)  Contact Attempts (Date): 1st: 3-11-15 2nd:	
Owner Signature: Per Phone Conversation  4-2 2,240' 4-3 2,17	3'
Site Number: 2, 4 Distance from Gas Well (feet): 4-1 2,347'	
Address: 4200 Grand Central Ave Phone #: 304-483-5528	<ul> <li>✓ Landowner Requested</li> <li>Sampling</li> <li>□ Landowner Decline</li> <li>Sampling</li> </ul>
Vienna, WV 26105  Field Located Date: 3-11-15  Owner home during survey (yes/no): No	Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 4-2 39.240642, -80.933894 (decimal degrees – NAD 83)	
Contact Attempts (Date): 1st: 3-11-15 2nd:Date Door Hanger Left: No	
Comments: There are cattle on this property. Spoke with Robert on phone and w	as given
permission to locate.	
<b>4-1</b> 39.240947, -80.9 <b>Owner's Signature</b> : Per Phone Conversation <b>4-3</b> 39.238992, -80.9	





<u>3-1</u> 2,417'	
Site Number: 3 Distance from Gas Well (feet): 3-2 2,794'	
Surface Owner / Occupant: Randall Lamm	✓ Landowner Requested
Address: <u>2597 Lynn Camp Rd</u> Phone #: <u>304-659-3075</u>	Sampling  Landowner Decline
Pennsboro, WV 26415	Sampling
Field Located Date: 3-9-15 Owner home during survey (yes/no): Yes	☐ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 3-1 39.239497, -80.929569 (decimal degrees – NAD 83)  Contact Attempts (Date): 1st; 3-9-15 2nd;	
Comments: Located stream on property, not in use for drinking water. Water we 2500'.	ll is outside of
Site Number: 6 Distance from Gas Well (feet): 6-2 1,021'  Surface Owner / Occupant: Christa & James Smith	
D	Landowner Requested Sampling
Address: Buzzard Run Phone #:Ponnsboro, WV 26415	☐ Landowner Decline Sampling
Field Located Date:Owner home during survey (yes/no):	☐ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 6-1 39.23665, -80.941642 (decimal degrees – NAD 83)	
Contact Attempts (Date): 1st: 3-11-15 2nd:Date Door Hanger Left:	
Comments: Eric Janotha's sister. All sources located by direction of Eric. She do	es not live on
property. Contact Eric.	
Owner's Signature: 6-2 39.233572, -80.9	



# 47 0 8 5 1 0 2 6 3 Larson Design Group®

Surface Owner / Occupant:Mi	chael L. Davis		
Address: 19 Davis Ridge Road	d	Phone #: 304-481-5899	Sampling   Landowner Decline
Pennsboro, WV 2641:	5		Sampling  Unable to Contact
Field Located Date: 3-11-15	Owner hom	ne during survey (yes/no): Yes	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: <u>5-1 39.232564</u> , -8	0.934794	(decimal degrees – NAD 83)	
Contact Attempts (Date): 1st: 3-1	1-15 2 <sup>nd</sup> :	Date Door Hanger Left: No_	Need
Comments: All water sources w	ere previously	located by our environmental grou	p. All sources
on this property are used by ca	ittle. Mr. Janot	tha had requested that we sample ev	verything.
Owner Signature: Per Conv			
<b>5-2</b> 39.231011, -80.936047	1498'		
<b>5-3</b> 39.232908, -80.935769	803'		
<b>5-4</b> 39.235936, -80.9346	364'		
<b>5-5</b> 39.2317, -80.935561	1235'		
<b>5-6</b> 39.234378, -80.938956	1403'		
<b>5-7</b> 39.231347, -80.935203	1360'		





Surface Owner / Occupant: Joseph & Virg	ginia Means	
Address: 2518 Lynn Camp Rd	Phone #: <u>304-659-2783</u>	Sampling  Landowner Decline
Pennsboro, WV 26415		Sampling  Unable to Contact
Field Located Date:Owner	home during survey (yes/no):	
Coordinates: <u>7-1</u> 39.239078, -80.928953		pre-unii sampiing lab)
Contact Attempts (Date): 1st: 3-9-15 2nd		es
Comments: Contacted us at a later date by		
Owner Signature:		
	m Gas Well (feet): N/A +_	
Owner Signature:  Site Number: 8 Distance fro  Surface Owner / Occupant: Faith Cottrill	m Gas Well (feet): N/A +_	□ Landowner Requested
Site Number: 8 Distance fro		Sampling    Landowner Decline
Site Number: <u>8</u> Distance fro Surface Owner / Occupant: <u>Faith Cottrill</u>	Phone #: <u>304-480-1570</u>	Sampling  Landowner Decline Sampling
Site Number:8 Distance fro Surface Owner / Occupant:Faith Cottrill Address:2782 Lynn Camp Rd Pennsboro, WV 26415 Field Located Date:Owner	Phone #: 304-480-1570  home during survey (yes/no):	Sampling  Landowner Decline Sampling  Unable to Contact (Further contact attempts to be made by EQT's third party
Site Number:8 Distance fro Surface Owner / Occupant:Faith Cottrill Address:2782 Lynn Camp Rd Pennsboro, WV 26415 Field Located Date:Owner	Phone #: 304-480-1570  home during survey (yes/no):	Sampling  Landowner Decline Sampling  Unable to Contact (Further contact attempts to be
Site Number:8 Distance fro  Surface Owner / Occupant: _Faith Cottrill  Address: _2782 Lynn Camp Rd  Pennsboro, WV 26415  Field Located Date:Owner  Coordinates:	Phone #: 304-480-1570  home during survey (yes/no): (decimal degrees – NAD 83)	Sampling  Landowner Decline Sampling  Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Site Number: 8 Distance fro Surface Owner / Occupant: Faith Cottrill Address: 2782 Lynn Camp Rd	Phone #: <u>304-480-1570</u> home during survey (yes/no):  (decimal degrees – NAD 83)  : <u>3-11-15</u> Date Door Hanger Left: _Y	Sampling  Landowner Decline Sampling  Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)





Site Number: 9 Distance from Gas Well (feet): 9-3 2824' 9-4 2532'	9-5 2313'
Surface Owner / Occupant: Brian & Michael Taylor	✓ Landowner Requested
Address: 268 Buzzard Run Rd Phone #: 304-266-5835	Sampling   Landowner Decline
Pennsboro, WV 26415	Sampling  Unable to Contact
Field Located Date: 3-9-15 Owner home during survey (yes/no): Yes	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 9-1 39.230461, -80.941572 (decimal degrees – NAD 83)	,
Contact Attempts (Date): 1st: 3-9-15 2nd:Date Door Hanger Left: No	
Comments: Spring feed Cattle. concerned about direction of laterals near his wat	er well. Even
though his well his outside of radius, he prefers it to be tested.	
Owner Signature: 9-2 39.232364, -80.943386 9-4 9-3 39.227711, -80.937067 9-5	
Combine with Eric Janotha	
Site Number:10 Distance from Gas Well (feet):1897'+	
Surface Owner / Occupant: Suzanne Janotha (Not Living) left to Eric	✓ Landowner Requested
Address: 1873 Buzzard Run Rd Phone #:	Sampling  Landowner Decline
	Sampling  Unable to Contact
Field Located Date:Owner home during survey (yes/no):	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 10-1 39.230275, -80.938072 (decimal degrees – NAD 83)	pro-sum-sumpring (SD)
Contact Attempts (Date): 1st:2nd:Date Door Hanger Left:	
Comments: Now owned by Eric Janotha. See him for Sampling.	
	-
Owner's Signature:	



# EQT 470851026 LDC Larson Design Group®

Site Number:11 Distance from Gas Well (feet):11	1-1 1402' 1-2 1366' +
Surface Owner / Occupant: John & Rose Marie Sudol	✓ Landowner Requested
Address: 2064 Buzzard Run Rd Phone #:	
Pennsboro, WV 26415	Sampling  Unable to Contact
Field Located Date: 3-9-15 Owner home during survey (	yes/no): (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 11-1 39.233803, -80.931675 (decimal dec	grees – NAD 83)
Contact Attempts (Date): 1st: 3-9-15 2nd:Date Do	oor Hanger Left:
Comments: Filtering System, Water goes to cistern (pull same	ple from here) Frank Sudol,
brother, will be staying here while she is done until mid June.	
Owner Signature: Rose Sudol 11-23	9.234394, -80.931614
Site Number:12	+_
Site Number:12	+_ Landowner Requested
Site Number:12	t_ Landowner Requested Sampling Landowner Decline Sampling
Site Number: Distance from Gas Well (feet):  Surface Owner / Occupant: Frank Ostrowsky  Address: 26 McDermott Street Phone #:  Freehold, NJ 07728	+_  T32-462-4339  Landowner Requested Sampling  Landowner Decline Sampling  ✓ Unable to Contact
Site Number:12	+_  732-462-4339  Landowner Requested Sampling  Landowner Decline Sampling  Vinable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Site Number:12 Distance from Gas Well (feet):  Surface Owner / Occupant: Frank Ostrowsky  Address: 26 McDermott Street Phone #:  Freehold, NJ 07728  Field Located Date: Owner home during survey (y	+_    Tandowner Requested
Site Number:12 Distance from Gas Well (feet):  Surface Owner / Occupant: Frank Ostrowsky  Address: 26 McDermott Street Phone #:  Freehold, NJ 07728  Field Located Date: Owner home during survey (y	+_    Tandowner Requested Sampling   Landowner Decline Sampling   Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)   Prees – NAD 83

WW-6A (9-13)

API NO. 47-085 - 10263	
OPERATOR WELL NO. 516213	
Well Pad Name: PUL97	

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

Not	ice Time Requireme	ent: notice shall be prov	ided no later than the filing date of permit application.
	te of Notice: 10/1/15	Date Permit Applica	tion Filed: 10/1/15
$\square$	PERMIT FOR ANY	′ □ CERTIFI	ICATE OF APPROVAL FOR THE
	WELL WORK	<del></del>	RUCTION OF AN IMPOUNDMENT OR PIT
Deli	ivery method pursus	ant to West Virginia C	
		REGISTERED	<u> </u>
ш	SERVICE		METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
oil a descoper more well important properties of the control of th	surface of the tract on vand gas leasehold being tribed in the erosion and rator or lessee, in the even coal seams; (4) The common traction of the surface traction to the surface traction to the surface traction to the surface traction (b) of this section (b) of this section of the sheriff requision of this article to the R. § 35-8-5.7.a requi	which the well is or is progress, developed by the proposed sediment control plans went the tract of land on vowners of record of the subject is to be used for the peribed in section nine of it water supply source location by humans or domesty is to take place. (c)(1) I on hold interests in the larged to be maintained pursuche contrary, notice to a liting, in part, that the oper	this article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed lacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to ated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the f more than three tenants in common or other co-owners of interests described in mads, the applicant may serve the documents required upon the person described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any en holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. ator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
☑ A	pplication Notice	■ WSSP Notice □ E&	S Plan Notice
_	JRFACE OWNER(s)		☑ COAL OWNER OR LESSEE
	ne: see attached		Name: see attached
Add	ress:		Address:
Nam	ie:		COAL OPERATOR
			Name:
JSL	JRFACE OWNER(s)	(Road and/or Other Dis	Address:
Vam	e: see attached		SURFACE OWNER OF WATER WELL
٩ddı	ress:		AND/OR WATER PURVEYOR(s)
			Name: see attached
Vam	e:		Address:
\ddı	ress:		
			OPERATOR OF ANY NATURAL GAS STORAGE FIELD
		(Impoundments or Pits)	
	e: see attached		Address:
raai	ess:		*Please attach additional forms if necessary
			*Please attach additional forms if necessary

### WW-6A

### **Surface Owner**

Christa J. Smith 204 E. Myles Ave. Pennsboro, WV 26415

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415

470 85 10 26 3

### **Surface Owner**

Christa J. Smith 204 E. Myles Ave. Pennsboro, WV 26415

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415

# 470 85 10 2 6 3

### Surface Owner (Road and/or Other Distrubance)

Christa J. Smith 204 E. Myles Ave. Pennsboro, WV 26415

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415

### **Surface Owner (Impoundments or Pits)**

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415

### **Additional Coal Owners:**

Ashley E. Ness Jr. 2479 Oxford Rd. Pullman, WC 26421

Nellie Pitzer Heirs 5157 Lochwood Ct. Naples FL 34112

Jessie J Simms Heirs 33 Harris Ferry Rd Washington WV 26181 470 85 10 26 3

### **Additional Owners of Water Wells**

Christa J. Smith & James Smith 204 E. Myles Ave. Pennsboro, WV 26415 4708510263.

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415

Michael L. Davis (Current Owner) 19 Davis Ridge Rpad Pennsboro, WV 26415

John & Rose Marie Sudol 2064 Buzzard Run Rd Pennsboro WV 26415

API NO. 47-085 - 10263 OPERATOR WELL NO. 516213

Well Pad Name: PUL97

### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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

API NO. 47-085 - 10263

OPERATOR WELL NO. 516213

Well Pad Name: PUL97

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

### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

### Written Comment:

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

API NO. 47-085 - 10263

OPERATOR WELL NO. 516213

Well Pad Name: PUL97

### Time Limits and Methods for Filing Comments.

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

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

### **Comment Requirements**

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

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

#### **Permit Denial or Condition**

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

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

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

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

WW-6A (8-13)

API NO. 47-085 - 10263 OPERATOR WELL NO. 516213

Well Pad Name: PUL97

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0076 Email: vroark@eqt.com

Address: 115 Professional Place

Bridgeport, WV 26385

Facsimile: 304-848-0040

### 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

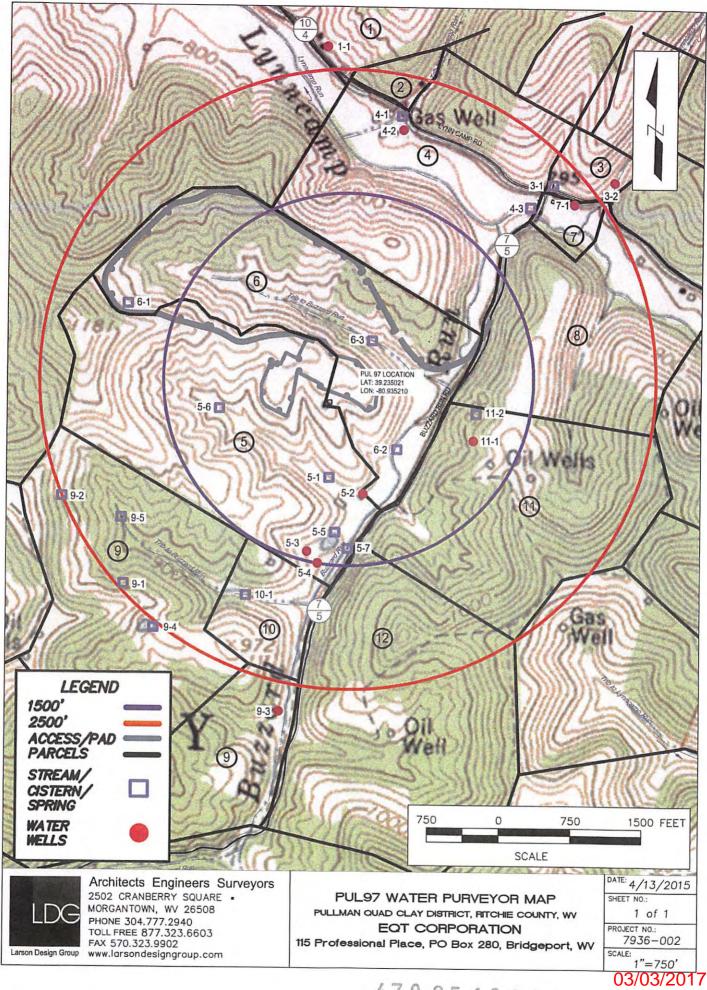
DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

Subscribed and sworn before me this

Notary Public

My Commission Expires



WW-6A3 (1/12)

### 470 85 10 2 6 3 STATE OF WEST VIRGINIA

Operator Well No. Lease #105410

# DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requ	irement: Notice shall be provided at least \$	SEVEN (7) days but no more than F	ORTY-FI	VE (45) days prior to entry.
	September 25, 2014	Date of Planned		•
Delivery method p	oursuant to West Virginia Code § 22-6A-1	0(a):	• -	
PERSONAL S		METHOD OF DELIVERY THAT RE	QUIRES A	RECEIPT OR SIGNATURE CONFIRMATION
prior to such entry pursuant to section records. The notice and gas exploration	firginia Code § 22-6A-10(a), prior to filing a y plat surveys required pursuant to this artion to: (1) The surface owner of such tract; (2) in thirty-six, article six, chapter twenty-two is shall include a statement that copies of the in and production may be obtained from the Secretary's web site, to enable the surface	permit application, the operator shall be provided at to any owner or lessee of coal se of this code; and (3) any owner of e state Erosion and Sediment Con Secretary, which statement shall in	all provide at least se ams bene of mineral trol Manus	e notice of planned entry on to the surface ven days but no more than forty-five days eath such tract that has filed a declaration s underlying such tract in the county tax
Notice is hereby p	rovided to:			
X SURF	ACE OWNER(S)	X co	AL OWN	ER OR LESSEE
				ation pursuant to §22-6A-10 and
	ł. & Beth S. Janotha Buzzard Run Rd.	Name: <u>§2</u>	2-6-36 No	t of Record
	sboro, WV 26415	Address:		
		MI	NERAL O	WNER(S)
	J. Smith	Name:		
	ast Myles Avenue	<del></del>		
Address: Penns	poro, WV 26415	Address:		
Name:		Name:	<del></del>	
Address:		Address:		
Notice is hereby g	iven:	*Fleaso	attach addition	al forms if necessary
Pursuant to West V	Firginia Code § 22-6A-10(a), notice is hereby	given that the undersigned well or	perator is	planning entry to conduct a plat survey on
State: Wes		Approx. Latitude & Longitude:		27 / -80.93623 & 39.23248 / -80.93876
County: Rito	The state of the s	Public Road Access:		rd Run Road
District: Clay Quadrangle: Pull	y / Map 36 / Parcel 7	Watershed:		
<u> </u>		Generally Used Farm Name:		
obtained from the 8 (304-926-0450). Co	e Erosion and Sediment Control Manual a Secretary, at the WV Department of Environ opies of such documents or additional info I-and-gas/pages/default.aspx.	mental Protection headquarters, lo	cated at 6	01.57th Street SE Charleston WV 25204
Notice is hereby g	iven by:			
Well Operator: _E	QT Production Company	Address:	115 Pro	ofessional Place, Bridgeport, WV 26330
Telephone: 3	04-848-0099	EQT Representative:		
Facsimile: 3	04-848-0040			., .
Email: E	QTLandEntryNotice@eqt.com	Signature:	15/1	thy Buga
			,	.,

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such a name, address and telephone number, as part of 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)

## 4708510263

Operator Well No. 516213

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

Date of Not	ice: 10/01/2015 Date	Permit Application Filed: 10/01/2015	t application.
Delivery me	ethod pursuant to West Virgini	a Code § 22-6A-16(c)	
■ CERT	IFIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
the planned required to be drilling of a damages to t (d) The notice of notice.	operation. The notice required be provided by subsection (b), see horizontal well; and (3) A prophe surface affected by oil and gastes required by this section shall reby provided to the SURFACE as listed in the records of the sher	later than the date for filing the permit apply the the surface owner whose land will be used to be this subsection shall include: (1) A copy ction ten of this article to a surface owner who cosed surface use and compensation agreements operations to the extent the damages are combe given to the surface owner at the address I to the time of notice):	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 approache under article sixth of this chapter.
Address:  Notice is her Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(c	Name:Address: c), notice is hereby given that the undersigned	well operator has developed a planned
Address:	reby given: Vest Virginia Code § 22-6A-16(c	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the transfer.	act of land as follows:
Address:	reby given: Vest Virginia Code § 22-6A-16(c the surface owner's land for the	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the transfer Easting:	act of land as follows: 505588.67
Notice is her Pursuant to V operation on State: County: District:	reby given: Vest Virginia Code § 22-6A-16(c the surface owner's land for the	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the transfer.	act of land as follows:
Notice is her Pursuant to Voperation on State: County: District: Quadrangle:	reby given: Vest Virginia Code § 22-6A-16(content the surface owner's land for the work Ritchie Clay Pullman	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the trace.  UTM NAD 83  Easting: Northing:	act of land as follows: 505588.67 4342873.62
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to V to be provide horizontal we surface affect information in	Peby given:  Vest Virginia Code § 22-6A-16(c)  the surface owner's land for the  W  Ritchie  Clay  Pullman  North Fork of Hughes River  Shall Include:  Vest Virginia Code § 22-6A-16(c)  ed by W. Va. Code § 22-6A-10  ell; and (3) A proposed surface u  ted by oil and gas operations to  related to horizontal drilling may  located at 601 57th Street, SE	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the trace to the desired by	act of land as follows:  505588.67  4342873.62  St.Rt. 74  Christa J. Smith  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed:  This Notice: Pursuant to V to be provide horizontal we surface affect information of headquarters, gas/pages/def	reby given:  Vest Virginia Code § 22-6A-16(c) the surface owner's land for the WV  Ritchie  Clay  Pullman  North Fork of Hughes River  Shall Include:  Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10 edl; and (3) A proposed surface u ted by oil and gas operations to related to horizontal drilling may located at 601 57th Street, SE. fault.aspx.	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the trace of the control of the purpose of drilling a horizontal well on the trace of the control of t	act of land as follows:  505588.67  4342873.62  St.Rt. 74  Christa J. Smith  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to Voto be provide horizontal we surface affectinformation in the adquarters.	Peby given: Vest Virginia Code § 22-6A-16(c) the surface owner's land for the WV Ritchie Clay Pullman North Fork of Hughes River  Shall Include: Vest Virginia Code § 22-6A-16(c) ed by W. Va. Code § 22-6A-10 edl; and (3) A proposed surface u ted by oil and gas operations to related to horizontal drilling may located at 601 57th Street, SE fault.aspx.	Address:  c), notice is hereby given that the undersigned purpose of drilling a horizontal well on the trace of the control of the purpose of drilling a horizontal well on the trace of the control of t	act of land as follows:  505588.67  4342873.62  St.Rt. 74  Christa J. Smith  code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-ace, P.O. Box 280

#### Oil and Gas Privacy Notice:

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

### Surface Owner (Road and/or Other Distrubance)

Christa J. Smith 204 E. Myles Ave. Pennsboro, WV 26415

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415

### Surface Owner (Impoundments or Pits)

Eric H & Beth S. Janotha (Previous owner notice 10/1/2015) 1873 Buzzard Run Rd. Pennsboro, WV 26415



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## **Division of Highways**

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

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

Reissued January 9, 2017

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 PUL 97 Pad Site, Ritchie County

516211 PUL97H1 516214 PUL97H4 516212 PUL97H2

516215 PUL97H5

516565 PUL97H7

516213 PUL97H3 516216 PUL97H6

Dear Mr. Martin.

Earl Ray Tomblin

Governor

This well site will be accessed from Permit #03-2015-0400 issued to EQT Production Company for access to the State Road. The well site is located off of Ritchie County Route 7/5 SLS. Approved permit must be received before the start of construction.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner

**EQT Production Company** 

CH, OM, D-3, File

# 470 85 10 28 3

# Anticipated Frac Additives Chemical Names and CAS numbers

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



West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

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Date Re	ceived b	y Oil & G	as:		P. Va	
Assigne	d Impour	المراجعة المراجعة		N. S. 1912	1.	<b>数数35</b> ,
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# Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-

### Section 1 - Operator Information

Operator Name:	EQT Production Company			<del></del> -	
Operator ID:					
Address: Street	P.O. Box 280				
City:	Bridgeport	State: W	7in:	26330	
Contact Name:	Columbus Michael Jervis	Contact Title:	Zip:	20000	
Contact Phone:	304-848-0013	Contact Final:	CJervis@eqt.com		

### Section 2 - Engineering / Design Contractor Information

Design will be contracte	d  ■ Designed in-house  □			
Company Name:	Larson Design Group			
Address: Street	2502 Cranberry Square			
City:	Morgantown	State:	w	Zip: 26508
Contact Name:	Timothy Kinder	Contact	Title:	
Contact Phone:	877-323-6603 Ext. 453	Contact E		
Certifying Professional E	Trobott 7 i. Matejezyk,			
Professional Engineer R	egistration Number: 014027			





Office of Oil and Gas

# Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:
III Erochwater Immercust
Note: Any waste in a pit will make it a waste pit.
The state of the s
No. 10
Name of Structure (Company Name :) Flowback Pit
County: Ritchie District: Clay
USGS 7.5' Quad Map Name: Pullman Farm Name: Janotha
Pad Name: PUL 97
Surface Owner Name: Eric & Beth Jarrotha
Physical Description of Location: West side of CR 7/5 (Buzzard Run Road) approximately 2.19 miles North of the intersection of CR 7/5 and CR 74 (Pullman Drive)
(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)
Watershed (nearest perennial): Buzzard Run
Distance (Drainage Distance) to nearest perennial stream: 1,350 ft.
1,350 It.
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))
Latitude: 39.235325 Longitude (Use negative sign): -80.936365
UTM Coordinates : 1561662.63 E 271078.11
Access Road Coordinates (junction of state highway access)
Latitude: 39.236281 Longitude (Use negative sign): -80.931290
UTM Coordinates : 1563088.16 E 271306.47 N
Approximate Dimensions
Length: 189 ft. Width: 134 ft. Height: 14 ft.  Note: If irregularly shaped, give approximate dimensions of long axis.
i i
Total Capacity – Provide all units of measure below:  Barrels: 35,960 Gallons: 1,510,332
Barrels: 35,960 Gallons: 1,510,332 Acre-Feet: 4.64
Capacity with 3' Freehand B. 11 III
Capacity with 2' Freeboad – Provide all units of measure below:  Barrels: 27,622 Gallons: 1,160,116
Barrels: 27,522 Gallons: 1,160,116 Acre-Feet: 3.56
Incised volume:
Barrels: 34 988
Gallons: 1,469,325 Acre-Feet: 4.50
Net impounded volume: (Total volume less incised volume.)
Parrels: 972
Gallons: 41,007 Acre-Feet: 0.14
Anticipated Construction Start Date (estimation, non-binding): Fall 2015
Note: No construction may begin on Associated impoundment until NA (DED:
inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."

**Section 4 - Associated Well Numbers and API Numbers.** List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) - If issued:
516212 H2	Pending
516211 H1	Pending
516213 H3	Pending
516216 H6	Pending
516214 H4	Pending
516565 H7	Pending
516215 H5	Pending

# Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

## Section 6 – Dam Standard Qualifying Evaluation

×	The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W.Va Rule \$47-34. If the design of this above the structure is a second of this above to be design of the design of this above to be design of the design of this above to be design of the design of this above to be design of the design of the design of this above to be design of the de
	defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to registering the attraction at the attraction.
	all permits regulating dams will be required prior to registering the structure qualifies it to be defined as a dam, The dam standard, from the WVDEP, Div. Of Water and Wester
	http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 –Comments – Provide any additional comments concerning this project				



## Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment requirements of W. Va. Code R § 35-4-2.

Name:	Victoria J. Roank
Title:	Dermitting Supervisor
Signature:	Thet 11
Taken, subscribed and sworn to	before me this, 30 Day of Sept 20 15
Notary Public:	wa Jy 1-
My commission expires:	8-24-22
Notary Seal:	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022

### Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57<sup>th</sup> Street, SE
Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : <u>Depimpoundments@wv.gov</u>

DEP Office Use only
Date Received by Oil & Gas
Assigned impoundment ID #

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

# Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

### Section 1 – Operator Information

Operator Name:	EQT Production Company			
l.				
Address: Street	P.O. Box 280			
City:	Bridgeport	State: W	Zip:	26330
Contact Name:	Columbus Michael Jervis	Contact Title:	. حاب	
Contact Phone:	304-848-0013	Contact Email:	CJervis@eqt.com	

### Section 2 – Engineering / Design Contractor Information

Design will be contracte	d   ☐ Designed in-house  ☐		·
Company Name:	Larson Design Group		
Address: Street	2502 Cranberry Square		
City:	Morgantown	State: w	Zip: 26508
Contact Name:	Timothy Kinder	Contact Title	Director of Operations - Energy Group
Contact Phone:	877-323-6603 Ext. 453	Contact Emai	TKinder@larsondesigngroup.com
Certifying Professional E	· · · · · · · · · · · · · · · · · · ·	PE	
Professional Engineer R	egistration Number: 014027		



Office of Oil and Gas

# Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:
☐ Freshwater Impoundment ☑ Waste Pit
Note: Any waste in a pit will make it a waste pit.
Name of Olivery
Name of Structure (Company Name :) Completion Pit
County: Ritchie District: Clay
USGS 7.5' Quad Map Name: Pullman
Farm Name:Janotha Pul. 97
Physical Description of Location: West side of CR 7/5 (Buzzard Run Road) approximately 2.19 miles North of the intersection of CR 7/5 and CR 74 (Pullman Drive)
(Note: Give general location, example: 2 miles south of Smalltown, WV on Rt. 22, left on Buffalo Creek)
Watershed (nearest perennial): Buzzard Run
Distance (Drainage Distance) to nearest perennial stream: 1,390 ft.
, 1,350 II.
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))
Latitude: 39.234863 Longitude (Use negative sign): -80.937277
UTM Coordinates : 1561402.00 = 270913.97
Access Road Coordinates (junction of state highway access)
Latitude: 39.236281 Longitude (Use negative sign): -80.931290
UTM Coordinates : 1563088.16 E 271306.47 N
Approximate Dimensions
Length: 238 ft. Width: 198 ft. Height: 14 ft.  Note: If irregularly shaped, give approximate dimensions of long axis.
Total Capacity – Provide all units of measure below:
Barrels: 142,485 Gallons: 5,984,371 Acre-Feet: 18.37
Canacity with 2' Freehand Burit III is
Capacity with 2' Freeboad – Provide all units of measure below:  Barrels: 117,700 Gallons: 4,943,417 Agra Fresh, 15,17
Barrels: 117,700 Gallons: 4,943,417 Acre-Feet: 15.17
Incised volume:
Parrole: 39 964
Barrels: 39,964 Gallons: 1,678,296 Acre-Feet: 5.14
Net impounded volume: (Total volume less incised volume.)
Barrele: 102.521 02.075
Gallons: 4,306,075 Acre-Feet: 13.23
Anticipated Construction Start Date (estimation, non-binding): Fall 2015
Note: No construction may begin on Associaated impoundment until MA/DED issues the daily
Calendar days prior to confirmed construction start data and the same
calendar days prior to confirmed construction start date, notify the Office of Oil & Gas, and the local Oil and Gas inspector of construction start date. Use form IMP-2, "Notification of Impoundment / Pit Construction."



Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) - If issued:
516212 H2	Pending
516211 H1	Pending
516213 H3	Pending
516216 H6	Pending
516214 H4	Pending
516565 H7	Pending
516215 H5	Pending

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

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		DV VVV Registered D	
	Engineered Construction Plans, certified	VY VVV INCUISIEIEU P.	. E.

- Erosion and Sediment Control Plan, certified by WV Registered P.E. X
- Reclamation Plan, certified by WV Registered P.E. ×

Section 6 - Dam Standard Qualifying Evaluation

The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be defined as a dam, under W Va Rule 847.34. If the design of this
defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam, all permits regulating dams will be required prior to register in a the structure qualifies it to be defined as a dam,
all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas.  The dam standard, from the WVDEP, Div. Of Water and Western Structure with the Office of Oil and Gas.
The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at: <a href="http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx">http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx</a>

Section 7 - Comments - Pro	ovide any additional comments co	oncerning this project

### **Section 8 - Application Certification**

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

_

### Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection Office of Oil and Gas Impoundment Registration 601 57th Street, SE Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : Depimpoundments@wv.gov

#### PROJECT INFORMATION

PROJECT NAME: EQT PUL 97

TAX PARCEL:

CLAY DISTRICT, RITCHIE COUNTY, WV DISTRICT 3 MAP 36 PARCELS 4, 7

#### SURFACE OWNER

CHRISTA J. SMITH PID 3-36-7 TOTAL PROPERTY AREA: 69.88 ACRES TOTAL DISTURBED AREA. 26.55 ACRES IMPACTED FORESTED AREA: 13.20 ACRES

ERIC & BETH JANOTHA PID 3-36-7 TOTAL PROPERTY AREA: 79.21 ACRES TOTAL DISTURBED AREA: 1883 ACRES IMPACTED FORESTED AREA: 1.93 ACRES





OPERATOR

P.O. BOX 280

ENGINEER





#### GENERAL DESCRIPTION

THE ACCESS ROAD(S), WELL PAD, FLOW BACK PIT, AND COMPLETIONS PIT ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL SHALE GAS WELLS.

#### MISS UTILITY STATEMENT

EQT WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #143509524. #1435093538, AND #1435093569.

IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

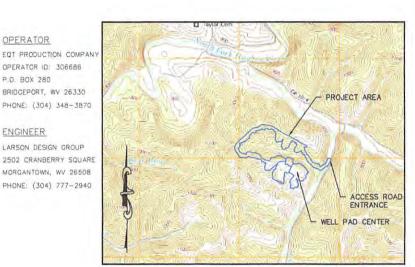
MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law

(Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

- 1. THERE ARE TWO WETLANDS WITHIN 100 FEET OF THE WELL PAD LOD.
- 2 THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD LOD.
- 3, THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- 4. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
- 5. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
- 6. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
- 7. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

## EQT PUL 97 SITE PLAN

### EQT PRODUCTION COMPANY



SCALE: 1" = 2000"

PULLMAN QUADRANGLE

PROPOSED WELL NAME	WV NORTH NAD 83	NAD 83 LAT & LONG
H2-516212	N 271021.37 E 1561952.35	LAT 39.235182 LON -80.935341
H1-516211	N 271014.76 E 1561965.81	LAT 39.235165 LON -80.935293
H3-516213	N 271008.15 E 1561979.28	LAT 39.235147 LON -80.935245
H6-516216	N 271001.54 E 1561992.74	LAT 39.235129 LON -80.935197
H4-516214	N 270994.93 E 1562006.21	LAT 39.235112 LON -80.935149
H7-516565	N 270988.31 E 1562019.67	LAT 39.235094 LON -80.935101
H5-516215	N 270981.69 E 1562033.14	LAT 39.235077 LON -80.935053
WELL PAD ELEVATION	938.80	

#### LOCATION COORDINATES

ACCESS ROAD ENTRANCE

LATITUDE: 39.236018 LONGITUDE: -80.931364 (NAD 83) N 271307.66 E 1563083.29 (WV NORTH NAD 83)

CENTER OF WELL PAD

LATITUDE: 39.235021 LONGITUDE: -80.935210 (NAD 83) N 270962.12 E 1561988.38 (WV NORTH NAD 83)

CENTER OF 60,000 BBL TANK

LATITUDE: 39.235277 LONGITUDE: -80.937146 (NAD 83) N 271064.14 E 1561441.45 (WV NORTH NAD 83)

CENTER OF 40,000 BBL TANK

LATITUDE: 39.234863 LONGITUDE: -80.937277 (NAD 83) N 270913.97 E 1561402.00 (WV NORTH NAD 83)

#### ENTRANCE PERMIT

EOT WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRIGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

#### ENVIRONMENTAL NOTES

WETLAND DELINEATIONS WERE PERFORMED BETWEEN DECEMBER 11, 2014 THROUGH JANUARY 29, 2015 BY LARSON DESIGN GROUP TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE APRIL 24, 2015 EQT PUL 97 JURISDICTIONAL STREAMS & WETLANDS MAPS WERE PREPARED BY LARSON DESIGN GROUP AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. MAPS DO NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WYDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM

#### GEOTECHNICAL NOTE

A GEOTECHNICAL INVESTIGATION HAS NOT COMPLETED FOR THIS SITE.

CONSEQUENTLY, THE DESIGN OF THE SITE IMPROVEMENTS DEPICTED ON THESE DRAWINGS WAS PREPARED BY LDG WITHOUT DETAILED GEOTECHNICAL INFORMATION AND LDG DOES NOT GUARANTEE THE EFFICACY OF THIS DESIGN.

LDG RECOMMENDS COMPLETION OF A DETAILED GEOTECHNICAL INVESTIGATION AND EVALUATION/REDESIGN OF THE SITE IMPROVEMENTS PRIOR TO CONSTRUCTION, THE OWNER ASSUMES ALL RISK IN THE USE OF THESE DRAWINGS TO CONSTRUCTION IMPROVEMENTS ON THIS SITE.

#### SHEET INDEX

COVER SHEET

2-3	GENERAL NOTES
4	OVERALL PLAN SHEET INDEX
5-9	SITE LAYOUT
10-11	ROAD PROFILE
12	WELL PAD CROSS SECTIONS
13-15	WELL PAD AND STOCKPILE CROSS SECTIONS
16-24	ACCESS ROAD CROSS SECTIONS
25-29	RECLAMATION PLANS
30-40	EROSION CONTROL DETAILS
41	CONSTRUCTION QUANTITIES



Larson Design Group

WELL SITE
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1 OF 41 7936-002

