

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 516216

47-085-10264-00-00

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: 516216 Farm Name: SMITH, CHRISTA J.

U.S. WELL NUMBER: 47-085-10264-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 3/3/2017

Promoting a healthy environment.

API Number: 85-10264

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

API Number: 85-10264

PERMIT CONDITIONS

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



west virginia department of environmental protection

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

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.
- 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:

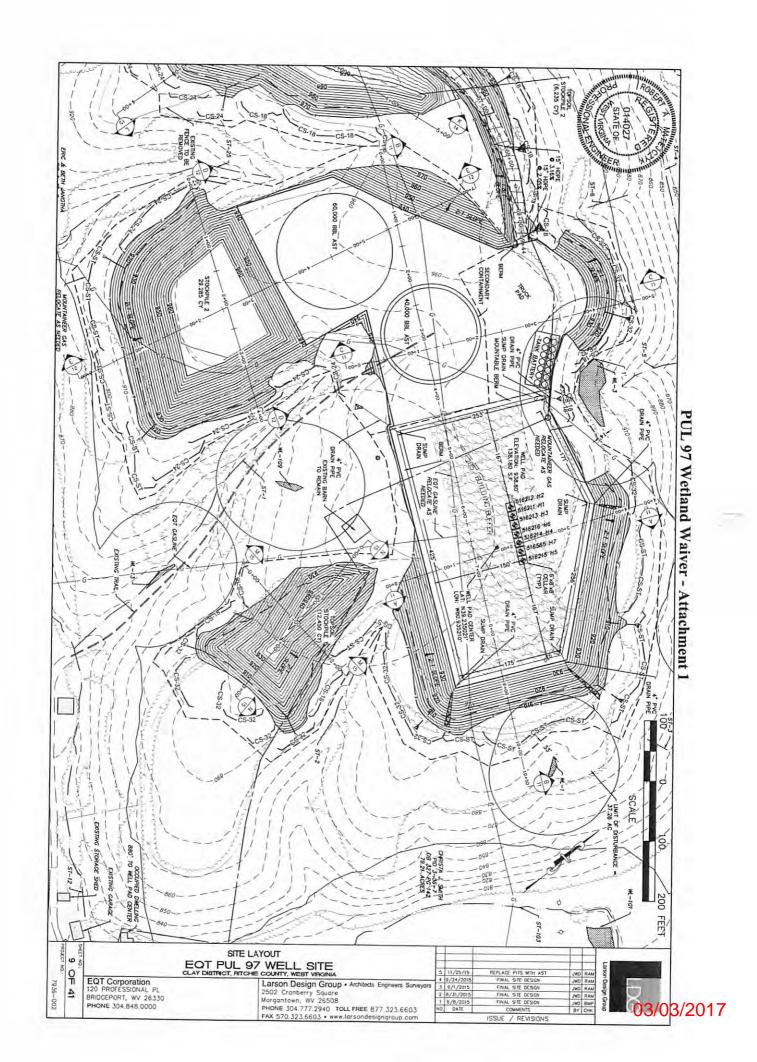
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least a twenty four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment 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

y: {

MES A. MARTIN, CHIEF



API NO. 47-085	_ 10264
OPERATOR V	VELL NO. 516216
Well Pad Na	me: PUL97

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

1) Well Operator: EQT Production 0	Company	306686	Ritchie	Clay	Pullman
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 516216		Well	Pad Name: PU	L97	
3) Farm Name/Surface Owner: Christa	a J. Smith	Public I	Road Access: S	st Rt 74	
4) Elevation, current ground: 945.0	E	levation, propos	ed post-constru	ction: 938.8	
5) Well Type (a) Gas X Other	_ Oil _	U	nderground Sto	rage	
(b)If Gas Shallow Horizontal	X	Deep			Michael 2 1/24/17
6) Existing Pad: Yes or No No					1/24/12
7) Proposed Target Formation(s), Dept Marcellus, 6203', 50', 2190 psi	h(s), Antic	cipated Thickne	ss and Expected	l Pressure(s):	
8) Proposed Total Vertical Depth: 620)3				
9) Formation at Total Vertical Depth:	Marcellu	S			
10) Proposed Total Measured Depth:	12390				
11) Proposed Horizontal Leg Length:	5018				
12) Approximate Fresh Water Strata D	epths:	46,74,177,27	'3		
13) Method to Determine Fresh Water	Depths:	From offset we	ells		
14) Approximate Saltwater Depths: N	lone repor	rted			
15) Approximate Coal Seam Depths:	248,550				
16) Approximate Depth to Possible Vo	id (coal m	nine, karst, other): None repor	ted	
17) Does Proposed well location conta directly overlying or adjacent to an act		Yes		No ×	
(a) If Yes, provide Mine Info: Nam	e:				
Dept	h:				
Seam	1:				
Own	er:				

WW-6B	
(04/15)	

API NO. 47- 085 - 10264

OPERATOR WELL NO. 516216
Well Pad Name: PUL97

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	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	1						0.010
Intermediate	9 5/8	New	A-500	40	2250	2250	888 ft^3 / CTS
Production	5 1/2	New	P-110	20	12390	12390	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.	

MAG 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	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal					2,00	2014-17	1.13
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		\$	1.120/2.000
Liners	2 11						

PACKERS

T T T T T T T T T T T T T T T T T T T

WW-6B
(10/14)

API NO. 47- 085	- 10264
OPERATOR V	VELL NO. 516216
Well Pad Na	me: PI II 97

19) Describe proposed wel	l work, including the drill	ling and plugging back of any pilot hole:
---------------------------	-----------------------------	---

1/24/12

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3276'. 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.
Production:

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) Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of 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

516216(PUL97H6)

EQT Production

Pullman Quad Ritchie County, WV

Azimuth 161 5239 Vertical Section

Note: Diagram is not to scale

	Тор	Base			Casing and Cementing	ng Deepest Fresh Water: 273'			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
			-		Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Base Fresh Water	2	273	111	1:14	Casing Wall Thickness, In.	0,375	0.380	0.395	0.361
				114	Depth, MD	40'	605'	2,250'	12,390'
Surface Casing	€	505	4		Weight	78.6#	54.5#	40#	20#
Walter Street					Grade	A-500	J-55	A-500	P-110
Base Red Rock		026		11	New or Used	New	New	New	New
Maxton		1553	1.1	11	Burst (psi)	1378	2,700	3,950	12,640
Big Lime	1728 -	1877	- 11	11	Cement Class	A	A / Type 1	A / Type 1	A/H
					Cement Yield	1.18	1.19	1.19	1.123 / 2.098
Weir Intermediate Casing	2081 -	2200 250	4		Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Gantz	2284 -	2312			Method	Displacement	Displacement	Displacement	Displacement
Fifty foot	2392 -	2438			Est. Volume (cu ft)	60	548	888	2.442
Thirty foot	2479 -	2522							Calcium Carbonate, Fluid Loss
Gordon	2528 -	2604		1			100000		Extender, Dispersent, Viscosifie
Forth Sand	2624 -	2686			Possible Additives	N/A	Calcium	Calcium Chloride	Defoamer, POZ, Bonding Agen
C Bayard	2748 -	2817			7.23.33.03.03.03	3,000	Chloride	Saleyalli Stilletings	Retarder, Anti-Settling/Suspension
Warren	3151 -	3217							Agent
Speechley	3243 -								
Dilov	4319 -								
Benson	4693 -								
Alexander de a	4917 -	3							
Alexander	4517	3002		KOP @ 3,276'					
Sonyea	5909 -	6018	10.0	KOF @ 3,276					
Middlesex	6018 -								
Genesee	6070 -		100						
Geneseo	6125 -		1	l .					
Tully	6160 -		1	1					
Hamilton	6174 -		1						
Marcellus									
Production Casing	6183 -		TO ASSESS AND ASSESSMENT	Shirts Valley	THE PROPERTY OF THE PROPERTY O	NAME AND ADDRESS OF THE PARTY O	AND STATE OF THE PARTY OF THE P	ENTERTY SOURCE DATE OF THE PARTY OF THE	
	12390	MD	GROSSOW	M6M000F6hc					and an arrangement of
Onondaga	6232		ES-CHARLES		MARINA DI RESPUESTO IN CONTROL POR ARTE			MELONISOTISM STORY DOWN STREET, N	nearity.
			Land curv	re @ 6,203' TVD			Est. TD @	6.20	03' TVD
				7,372' MD			Acres Section		0' MD
								12,00	
roposed Well Work:						—			
rill and complete a new he	rizontal wall	See Mary & Avenue	0						

Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 3276'.

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

5,018' Lateral



west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Sccretary dcp.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	Oxto Diction	2011 17
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE	í		
THE OPERATIONAL	í		
REGULATIONS OF CEMENTING OIL	í		
AND GAS WELLS	í		

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

- 1026	47 - 85	API Number
- 1026	47 - 60	API Number

Operator's Well No. 516216

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION P	LAN
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 complete the proposed well work?	Yes ✓ No
Will a pit be used? Yes No	10
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml.	?_n/a
Proposed Disposal Method For Treated Pit Wastes:	2 n/a MDG /17
Land Application	2127
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 Will closed loop system be used? If so, describe: prepared for transportation to an off-site disposal facility.	
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 of West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and where it was properly disposed.	or associated waste rejected at any I the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL W on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environm provisions of the permit are enforceable by law. Violations of any term or condition of the glaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar wi application form and all attachments thereto and that, based on my inquiry of those indiobtaining the information, I believe that the information is true, accurate, and complete. I penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	ental Protection. I understand that the general permit and/or other applicable ith the information submitted on this spiduals immediately responsible for
Company Official (Typed Name) Victoria J. Roark	
Company Official Title Permitting Supervisor	
Company Official Title Company	The state of the s
	RECEIVED Publice of Oil and Gas
My commission expires	
	FEB 28 2017

WV Department of Environmental Profeson 2017

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.

/ <u></u>		Operato	r's Well No.	516216
Proposed Revegetation Trea	atment: Acres Disturbed	45.38	Prevegetation pH	6.2
Lime3	Tons/acre or to d	correct to pH	6.5	
Fertilize type	Granular 10-20-20			
Fertilizer Amount	1/3lbs/ac	ere (500 lbs minimum)		
Mulch	2	Tons/acre		
4	S	Seed Mixtures		
Tempo	rary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/ac	re
KY-31	40	Orchard Grass	15	
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
Drawing(s) of road, location, Photocopied section of invol				
Plan Approved by:	David w/s	ra-	Mie	chael
Community 20		0 .00 .	9	1
Comments:	seed & muli	en au cu	x area s	ro les
Than 29	ton per acre		all C'85	during
	resalions. Sour	ed dissipat	ting walls	necol
to be const	rueted aroun	ed padi	7	
	· · · · · · · · · · · · · · · · · · ·	C 1 5		, 10
Title: od cg	as inspedor	Date:/	0-13-15	1/0
Field Reviewed? (1 Voc	1) No	

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

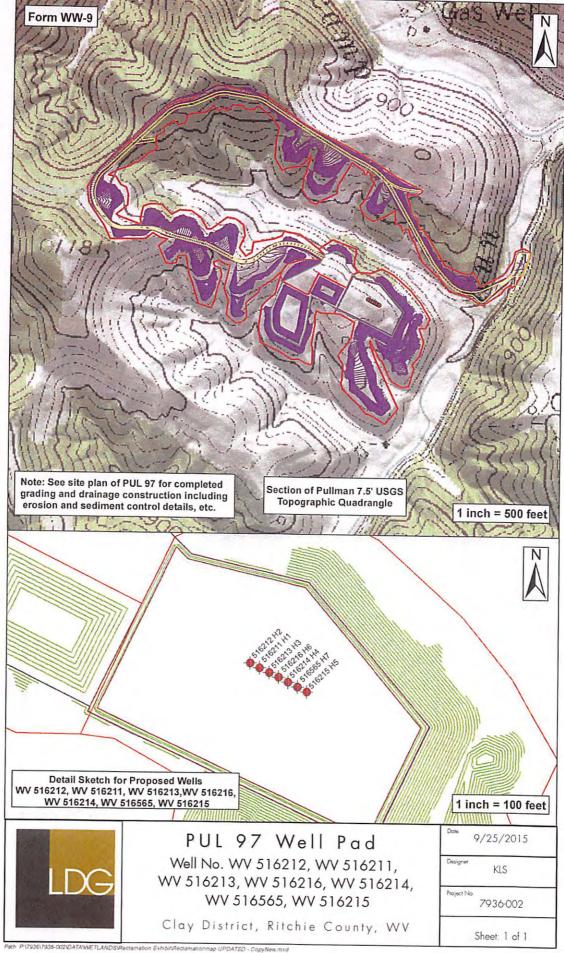
37 West Broad Street Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County/Belpre Twp. Permit # 8462

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



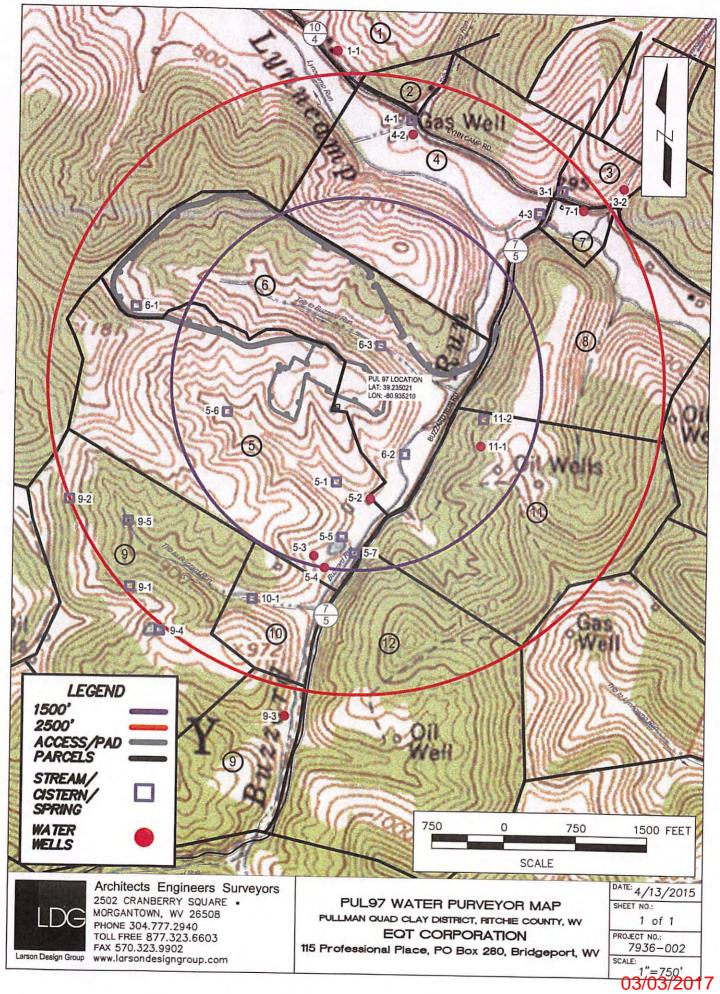


Site Specific Safety Plan

EQT PUL97 Unit Pad

Pullman Ritchie County, WV

_516211	516212	516213	For Wells: 516214	_516215	516216	_516565
EQT Production Dern H	Ing Sp	envisor	Date Prepared:	Mich	2017 Gas Inspector	Laff
//_/ Date	7			Date /	104/17	



EQT PRODUCTION COMPANY WELL NO. 516216 - Ashley E. Ness, Jr. et al PAGE 1 OF 2

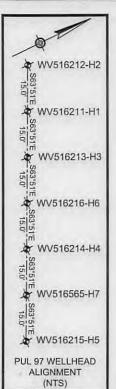
UTM NAD83	TOPHOLE	N-4342871.67	E-505592.80
ZONE 17N	LANDING PT	N-4342688.80	E-504951.56
(METERS)	BOT HOLE	N-4341251.63	E-505473.42
NAD27 SPC FEET NORTH ZONE	TOPHOLE	N-270967,40	E-1593433.75
	LANDING PT	N-270402.45	E-1591319.46
	BOT HOLE	N-265657.65	E-1592953.22
NAD27 GEO	TOPHOLE	N039.235048	W080.935366
LAT(N)	LANDING PT	N039.233404	W080.942798
LONG(W)	BOT HOLE	N039.220450	W080.936763

AREA (Ac±)	LEASE #
174	1005910
58.0021	1005922
	174

	PROPE	RTY TIES	
L1	S32°06'W	1527.8'	1
L2	N71°00'E	1168.8'	

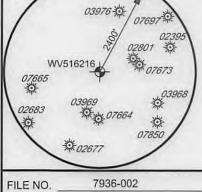
HORIZO	ONTAL BORE GE	OMETRY
TH-LP	AZ 255.0398°	2188.5
LP - BH	AZ 161.0000°	5018.2

TOTAL HORIZONTAL LENGTH - 7,725'



	PROPERTIES (CROSSED BY BORE			
TAB	OWNER	DISTRICT	TAX MAP #	PARCEL#	ACREAGE
1	CHRISTA J. SMITH	CLAY	3-36	P/0 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	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-36	29.1	20.693 Ac±
5	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-36	29	65.407 Ac±
6	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±
C	BRIAN M. & MICHAEL W. TAYLOR	CLAY	3-35	28	83.5 Ac±
D	JAMES L. & JULIA A. MASTERS	CLAY	3-36	28	12 Ac±
E	TERRY LEE RICHARDS	CLAY	3-36	30	121.5 Ac:
F	TERRY LEE RICHARDS	CLAY	3-36	30.1	1.25 Ac±
G	FRANK J. OSTROWSKY	CLAY	3-36	18	89.25 Ac
Н	ERIC H. & BETH S. JANOTHA	CLAY	3-36	16	18.18 Ac±
t	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±
N	ROBERT F. & IRENE D. PUGH	CLAY	3-36	31	51.9 Ac±



PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

07687

IS CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY
LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY
THE DIVISION OF ENVIRONMENTAL PROTECTION

No. 2034

STATE OF
P.S. #2034

DATE

1-5-2017 DMS DRAWN BY SCALE 1 INCH = 2000 FEET 1 IN 2500 MIN DEGREE OF ACCURACY _

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

2:1793617936-002 PUL97/DATAISURVEY/SURVEYS/EQT PUL 97 FINAL PLAT (NEW).



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

OPERATORS WELL NO. WV516216 API WELL NO.

085

BRIDGEPORT, WV 26330

INDIAU ALGA

			5,1,1	AM SEMPER		STATE	COUNTY	PERMIT	,,
WELL TYPE:	OIL	☐ GAS ☒	LIQUID IN	JECTION 🗆	WASTE	DISPOSAL			c
	IF "GAS"	, PRODUCT	TION X STOR	AGE DE	EP 🗆	SHALLOW X			, C
LOCATION	WATER	SHED BUZZARD	RUN - NORTH FO	RK HUGHES RIV	/ER E	ELEVATION (EXIS	T) 945.0	(PROP) 938.8	_ =
COL	JNTY/DIS	TRICT_RITCHIE	COUNTY - CLAY DI	STRICT	QU/	ADRANGLE PUL	LMAN - SEC. 2	02/02/20	A 7
SUR	FACE OV	VNER CHRISTA	J. SMITH			ACREAGE 69.88	AC (DEED)	03/03/20	J /≥
IL & GAS ROY	ALTY OW	NER_ASHLEY E	. NESS JR., ET AL			ACREAGE 150 A	C LEA	SE#_105410	
PROPOSED W	VORK:	DRILL X	CONVERT	DRILL DEE	PER 🗆	REDRILL	FRACTURE	OR STIMULATE] _
		PLUG OFF O	LD FORMATION	PERFOR	ATE NEW FO	DRMATION	PLUG & ABA	ANDON	Ţ
			The state of the s						_

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION:_ MARCELLUS ESTIMATED DEPTH 6183

WELL OPERATOR: _ EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY 115 PROFESSIONAL PLACE, PO BOX 280 ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280

BRIDGEPORT, WV 26330



WW-6A1 (5/13)

Operator's Well No. 5162	10
--------------------------	----

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:

))	Doole 1 age
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				

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:

Its: Permitting Supervisor

Page 1 of 2

Operator's Well No.

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
105410	Ashley E. Ness Jr., et al (current royalty owner)		**	
	Sarah Wilson, et al (original lessor)	W.A. Flanagan		LB30/176
	W.A. Flanagan	J. L. Newman		LB58/362
	J. L. Newman	The Philadelphia Company of West Virginia		LB58/363
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company		DB55/362
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		DB 126/473
	Equitable Gas Company	Equitrans, Inc.		LB 201/253
	Equitrans,Inc.	Equitrans, LP.		AB269/182
	Equitrans, LP	Equitable Production/Eastern States, Inc.		DB234/830
	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		LB94/325
	E. A. Ballengee	Eastern American Energy Corp.		LB97/363
	Eastern American Energy Corp.	Energy Corporation of America		DB306/836
	Energy Corporation of America	Antero Resources Corporation		LB268/1049
	Antero Resources Corporation	EQT Production Company		LB277/1045
	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		DB298/140
1005922	Heirs of Visa C. Snodgrass Partnership, et al (current royalty	(owner)	**	
	Mary E. Grovemiller, t/k/a Mary E. Weiford (original lessor)	Antero Resources Corporation		LB276/270
	Antero Resources Corporation	EQT Production Company		DB298/140

^{**} 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.



February 11, 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 numbers 516211, 516212, 516213, 516214, 516215, 516216, 516565 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



Table 1 - Water Source Identification

EQT Well Pad Name: PUL 97 Submittal Date:			
Survey / Engineering Company: Larson Design Group*			
Site Number:1 Distance from Gas Well (feet):2,852'+ Surface Owner / Occupant: Dale W Moore III			
Address: 1977 Lynn Camp Rd Phone #: 304-659-2734 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:Date Door Hanger Left: _ Comments: His water well is out side of 2500 ft.			
Owner Signature: Per Phone Conversation			
Site Number: 2, 4 Distance from Gas Well (feet): 4-1 2,347' +	173'		
Surface Owner / Occupant: Fouss Farms LLC (Robert)	✓ Landowner Requested		
Address: 4200 Grand Central Ave Phone #: 304-483-5528 Vienna, WV 26105	Compline		
Field Located Date: 3-11-15 Owner home during survey (yes/no): No	(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:			
Comments: There are cattle on this property. Spoke with Robert on phone and	was given		
permission to locate.			
Owner's Signature: Per Phone Conversation 4-1 39.240947, -8 4-3 39.238992, -8			





3-1 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>304-659-3</u> Pennsboro, WV 26415	Sampling Landowner Decline Sampling
Field Located Date: 3-9-15 Owner home during survey (yes/no): Yes Coordinates: 3-1 39.239497, -80.929569 (decimal degrees – NAC Contact Attempts (Date): 1st; 3-9-15 2nd; Date Door Hanger Comments: Located stream on property, not in use for drinking water. Western	0 83) Left:
2500'.	atter well is outside of
Owner Signature: Vernelal D- Acesum 3-2 39.23958 Site Number: 6 Distance from Gas Well (feet): 6-2 1,021' Surface Owner / Occupant: Christa & James Smith	
D In	Landowner Requested Sampling
Address:Phone #:Phone #:	☐ Landowner Decline Sampling ☐ Unable to Contact
Field Located Date:Owner home during survey (yes/no): Coordinates: 6-1 39.23665, -80.941642 (decimal degrees – NAD	(Further contact attempts to be
Contact Attempts (Date): 1st: 3-11-15 2nd:Date Door Hanger Lo	os)
Comments: Eric Janotha's sister. All sources located by direction of Eric.	She does not live on
property. Contact Eric.	one does not live on
6-2 39.23357	





Site Number:5	Distance from Ga	as Well (feet): <u>5-1</u> 765' +_	
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: <u>3-11-15</u> Coordinates: <u>5-1</u> 39.232564, -8		e during survey (yes/no): Yes (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 3-1		Date Door Hanger Left: No	Need
		located by our environmental grou	p. All sources
on this property are used by ca	ttle. Mr. Janoth	na had requested that we sample ev	erything.
Owner Signature: Per Conv	versation		
5-2 39.231011, -80.936047	1498'		
5-3 39.232908, -80.935769	803'		
5-4 39.235936, -80.9346	364'		
5-5 39.2317, -80.935561	1235'		
5-6 39.234378, -80.938956	1403'		
5-7 39.231347, -80.935203	1360'		





Surface Owner / Occupant: Joseph & Virgin		✓ Landowner Requested
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 he	ome during survey (yes/no):	(Further contact attempts to b made by EQT's third party pre-drill sampling lab)
Coordinates: <u>7-1</u> 39.239078, -80.928953	(decimal degrees – NAD 83)	pro ann sampling laby
Contact Attempts (Date): 1st: 3-9-15 2nd:	3-11-15 Date Door Hanger Left: Ye	es
Comments: Contacted us at a later date by p		
Owner Signature:		
Site Number: 8 Distance from		
Site Number: 8 Distance from Surface Owner / Occupant: Faith Cottrill		☐ Landowner Requested Sampling
Site Number: 8 Distance from Surface Owner / Occupant: Faith Cottrill Address: 2782 Lynn Camp Rd		Sampling ☐ Landowner Decline Sampling
Site Number: 8 Distance from Surface Owner / Occupant: Faith Cottrill Address: 2782 Lynn Camp Rd Pennsboro, WV 26415	Phone #: <u>304-480-1570</u>	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be
Site Number:8 Distance from Surface Owner / Occupant: _Faith Cottrill Address: _2782 Lynn Camp Rd Pennsboro, WV 26415 Field Located Date:Owner ho	Phone #: 304-480-1570me during survey (yes/no):	Sampling Landowner Decline Sampling Unable to Contact
Site Number:8 Distance from Surface Owner / Occupant: _Faith Cottrill Address: _2782 Lynn Camp Rd Pennsboro, WV 26415 Field Located Date:Owner ho	Phone #: 304-480-1570 me 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 from Surface Owner / Occupant: _Faith Cottrill Address: _2782 Lynn Camp Rd Pennsboro, WV 26415 Field Located Date: Owner ho Coordinates:	Phone #: <u>304-480-1570</u> me during survey (yes/no): (decimal degrees – NAD 83) 3-11-15Date Door Hanger Left:Ye	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 from Surface Owner / Occupant: Faith Cottrill Address: 2782 Lynn Camp Rd	Phone #: <u>304-480-1570</u> me during survey (yes/no): (decimal degrees – NAD 83) 3-11-15Date Door Hanger Left:Ye	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): 9-1 2449' 9-2 2518'	0.5.22121
Surface Owner / Occupant: Brian & Michael Taylor	✓ Landowner Requested
Address: 268 Buzzard Run Rd Phone #: 304-266-5835 Pennsboro, WV 26415	Sampling Landowner Decline Sampling Unable to Contact
Field Located Date: 3-9-15 Owner home during survey (yes/no): Yes Coordinates: 9-1 39.230461, -80.941572 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 3-9-15 2nd:Date Door Hanger Left: No Comments: Spring feed Cattle. concerned about direction of laterals near his water 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	39.229511, -80.940694 39.231919, -80.941675
Site Number:10 Distance from Gas Well (feet):1897'+_	
Surface Owner / Occupant: Suzanne Janotha (Not Living) left to Eric Address: 1873 Buzzard Run Rd Phone #:	✓ Landowner Requested Sampling☐ Landowner Decline Sampling
Field Located Date:Owner home during survey (yes/no): Coordinates:10-1 39.230275, -80.938072 (decimal degrees – NAD 83)	☐ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st:2nd:Date Door Hanger Left: Comments: Now owned by Eric Janotha. See him for Sampling.	_
Owner's Signature:	





Site Number:11 Distance from Gas Well (feet):11-1 1366' +	
Surface Owner / Occupant: John & Rose Marie Sudol	4
Address: 2064 Buzzard Run Rd Phone #: 304-659-3945 Pennsboro, WV 26415	■ Landowner Requested Sampling □ Landowner Decline Sampling
Field Located Date: 3-9-15 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: 11-1 39.233803, -80.931675 (decimal degrees – NAD 83) Contact Attempts (Date): 1st: 3-9-15 2nd:	
Comments: Filtering System. Water goes to cistern (pull sample from here) Fra be staying here while she is done until mid June.	ınk Sudol,
Owner Signature: Rose Sudol 11-2 39.234394, -80.93	1614
Site Number: Distance from Gas Well (feet):+_ Surface Owner / Occupant: Frank Ostrowsky	
	☐ Landowner Requested Sampling
Address: 26 McDermott Street Phone #: 732-462-4339 Freehold, NJ 07728	☐ 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
Coordinates: (decimal degrees – NAD 83)	pre-drill sampling lab)
Contact Attempts (Date): 1st;2nd;Date Door Hanger Left:	
Comments: Frank will not be back in town till Mid May. Eric Janotha seems to	d.:.1. at
is right in the 2500' radius. Gate Locked to home. Have tried calling back, No vo	think the water
No vo	oicemail.

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

Date of No	otice Certification:		API No. 47 4 7 008	\$ 5 1 0 2 6 4 ₀
			Operator's Well No.	
			Well Pad Name:	516216 PUL97
Notice has	been given:		•	
Pursuant to	the provisions in West Virginia Code § 2	22-64 the Operator has provided		
below for the	e tract of land as follows:	the Operator has provided	the required parties wit	h the Notice Forms listed
State:	WV	UTM NAD 83 Easting:		
County:	Ritchie	UTM NAD 83 Northing:		505,592.80
District:	Clay	Public Road Access:		4,342,871.67
Quadrangle:	Pennsboro	Generally used farm name:		ST RT 74
Watershed:	North Fork of Hughes River	Generally used familiarile:		Christa J. Smith
Virginia Code	surface owner notice of entry to survey s of subsection (b), section sixteen of this e § 22-6A-11(b), the applicant shall tend that have been completed by the applicant.	is article were waived in writing by der proof of and certify to the secri	the sumes and a	10
Pursuant to \ that the Oper	West Virginia Code § 22-6A, the Operator has properly served the required parts.	or has attached proof to this Notice arties with the following:	e Certification	OOG OFFICE USE
*PLEASE C	CHECK ALL THAT APPLY			ONLY
		ISMIC ACTIVITY WAS COND	UCTED [RECEIVED/NOT.
NOTICE	OF ENTRY FOR PLAT SURVEY	or NO PLAT SURVEY W	AS CONDUCTED	☐ RECEIVED
MOTICE	OF INTENT TO DRILL or VO	TICE NOT REQUIRED BECA TICE OF ENTRY FOR PLAT AS CONDUCTED OR	USE SURVEY	RECEIVED/NOT REQUIRED

WRITTEN WAIVER BY SURFACE OWNER

Required Attachments:

NOTICE OF APPLICATION

F PUBLIC NOTICE

▼ NOTICE OF PLANNED OPERATION

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.

(PLEASE ATTACH)

RECEIVED

RECEIVED

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company

By: Victoria J. Roark

Its: Permitting Supervisor

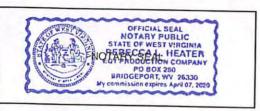
Telephone: 304-848-0076

Address: P.O. Box 280

Bridgeport, WV 26330

Facsimile: 304-848-0040

Email: vroark@eqt.com



Subscribed and sworn before me this

day of Cotober ,201

_ Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

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

WW-6A (9-13)

API NO. 47- 085 - 10264	
OPERATOR WELL NO. 516216	
Well Pad Name: PUL97	

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

Date of Notice: 1071.5 Date Permit Application Filed: 1071.5 Notice of: PERMIT FOR ANY	Noti	ce Time Requirem	ent: notice shall be provid	led no later tha	n the filing date of permit application.
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL			_ Date Permit Applicati	ion Filed: 10/1	115
PERSONAL	Ø				
SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface tract or which the well is or is proposed to be located; (2) The owners of record of the surface tract or which the well is or is proposed to be located; (2) The owners of record of the surface tract is to be used for roads or other land disturbance as asserbed in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, or person or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be undertain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any mountdement or pit as described in section inne of this article; (3) Any surface owner or water purveyor who is known to the applicant to nave a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to proposed well work activity is to take place, (c)(1) If more than three tennais in common or other co-owners of interests described in the proposed well work activity is to take place, (c)(1) If more than three tennais in common or other co-owners of interests described in the ecotion (b) of this article to the contrary	Deli	very method pursu	ant to West Virginia Cod	de § 22-6A-10	(b)
pertificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receip to r signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface tract or which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any mpoundment or pit as described in section nine of this article; (5) Any surface owner or water purvey who is known to the applicant to nave a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to orovide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the corocorocorocorocorocorocorocorocorocor					
SURFACE OWNER(s) Name: see attached Address: Name:	regissedinishes sedinishes sedini	tered mail or by any repent control plan requested of the tract on and gas leasehold being ibed in the erosion are tor or lessee, in the ecoal seams; (4) The compart of the surface transment or pit as designed a water well, spring of dewater for consumpted well work activities action (b) of this section (b) of this section of this article to R. § 35-8-5.7.a requested well work activities of the surface of th	nethod of delivery that required by section seven of this which the well is or is proping developed by the propose and sediment control plan survent the tract of land on whowners of record of the survent is to be used for the plant seribed in section nine of the propose of the seribed in section nine of the propose of the seribed in section nine of the propose of the seribed in section nine of the propose of the seribed in section nine of the propose of the seribed in section nine of the propose of the series of th	uires a receipt of is article, and the seed to be located well work, if bmitted pursuanich the well preface tract or tracement, construis article; (5) Atted within one ic animals; and more than threeds, the applicant to section en holder is not tor shall also put is article; and water testing at the section of the secti	r signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ted; (2) The owners of record of the surface tract or tracts overlying the interest the surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, coposed to be drilled is located [sic] is known to be underlain by one or coal overlying the oil and gas leasehold being developed by the proposed suction, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elements in common or other co-owners of interests described in the at may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
Name: see attached Address: Address:				S Plan Notice	• •
Name: COAL OPERATOR Address: Name:	Nam	e; see attached			Name: see attached
Address:	Addr	ess:			Address:
Address:	Vam	e:			T COAL OPERATOR
Address:					
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: see attached Address: Name: see attached Name: see attached Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: see attached Address:					Address:
Anddress: AND/OR WATER PURVEYOR(s) Name: see attached Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: see attached Address: AND/OR WATER PURVEYOR(s) Name: see attached Address: Address: Address: Address: Address:			(Road and/or Other Distu	urbance)	
Name: see attached Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: see attached Address: Address: Address: Address: Address:					
Name: see attached Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: see attached Address: Address: Address: Address: Address:	٩ddr	ess:			AND/OR WATER PURVEYOR(s)
OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: see attached Address:					Name: see attached
OPERATOR OF ANY NATURAL GAS STORAGE FIELD SURFACE OWNER(s) (Impoundments or Pits) Name: see attached Address:	Nam	e:	· · · · · · · · · · · · · · · · · · ·		Address:
SURFACE OWNER(s) (Impoundments or Pits) Name: see attached Name: Address:	Addr	ess:			
Name: see attached Address:	- CI 1	DEACE OWNERS	\(Impaundmanta.an D'ta\)		-
Address: Address:	_	, ,	(mipounaments or Pits)		Name:
radi 600:					Addicss:
*Please attach additional forms if necessary	Luui				*Please attach additional forms if necessary

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

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

Additional Owners of Water Wells

Christa J. Smith & James 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

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

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

WW-6A	١
(8-13)	

API NO. 47-085 - 10264	
OPERATOR WELL NO. 516216	
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

WW-6A (8-13)

API NO. 47-085 - 10264

OPERATOR WELL NO. 516216

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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

WW-6A (8-13)

API NO. 47- 085 - 10264

OPERATOR WELL NO. 516216

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

Permit Denial or Condition

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

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

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

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be 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.

API NO. 47- 085 - 10264

OPERATOR WELL NO. 516216

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.

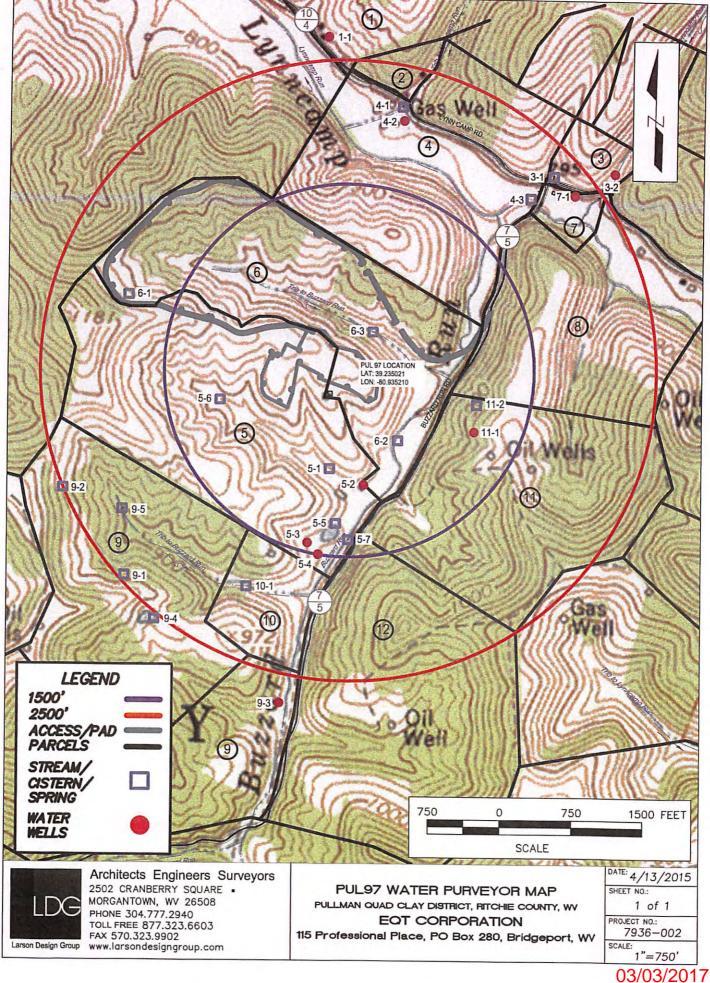
OFFICIAL SEAL
STATE OF WEST VIRGINIA
MOTARY PUBLIC
Pamela Sykes
EOT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

Subscribed and sworn before pre this

Notary Public

My Commission Expires

03/03/2017



WW-6A3 (1/12)

470 65 10 26 4 Operator Well No. <u>Lease #105410</u>

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at lea	ist SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry.
Date of Notice: September 25, 2014	Date of Planned Entry: October 3, 2014
Delivery method pursuant to West Virginia Code § 22-6	A-10(a):
PERSONAL SERVICE X CERTIFIED MAIL	
	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such entry to: (1) The surface owner of such tract; pursuant to section thirty-six, article six, chapter twenty-ty-records. The notice shall include a statement that copies of	g a permit application, the operator shall provide notice of planned entry on to the surface article. Such notice shall be provided at least seven days but no more than forty-five days (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration wo of this code; and (3) any owner of minerals underlying such tract in the county tax of the state Erosion and Sediment Control Manual and the statutes and rules related to oil the Secretary, which statement shall include contact information, including the address for account of the secretary.
Notice is hereby provided to:	- Free Home and Good Guary.
X SURFACE OWNER(S)	X COAL OWNER OR LESSEE
Name: Eric H. & Beth S. Janotha	Coal Declaration pursuant to §22-6A-10 and
1873 Buzzard Run Rd.	Name: §22-6-36 Not of Record
Address: Pennsboro, WV 26415	Address:
	MINERAL OWNER(S)
Name: Christa J. Smith	Name:
204 East Myles Avenue Address: Pennsboro, WV 26415	
	Address:
Name:	
Address:	
Notice is hereby given:	'Please attach additional forms if necessary
Pursuant to West Virginia Code § 22-6A-10(a), notice is her the tract of land as follows:	eby given that the undersigned well operator is planning entry to conduct a plat survey on
State: West Virginia	Approx. Latitude & Longitude:39.23527 / -80.93623 & 39.23248 / -80.93876
County: Ritchie	Public Road Access: Buzzard Run Road
District: Clay / Map 36 / Parcel 7	Watershed: Buzzard Run
Quadrangle: Pullman	Generally Used Farm Name: Janotha
	all and the statues and rules related to oil and gas exploration and production may be commental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 information related to horizontal drilling may be obtained from the Secretary by visiting
Notice is hereby given by:	
Well Operator: EQT Production Company	Address: 115 Professional Place Bridgenod WV 25220
Telephone: 304-848-0099	Address: 115 Professional Place, Bridgeport, WV 26330 EQT Representative: Kathy Kugel
Facsimile: 304-848-0040	
Email: EQTLandEntryNotice@eqt.com	Signature: Kathy Kur
0" 10 2: "	- Joseph Jacobs

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 deprivacyofficer@wv.gov.

WW-6A5 (1/12)

4708510284

Operator Well No. 516216

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

Date of No	ne Requirement: notice shall be provided tice: 10/01/2015 Date Permit	no later than the filing Application Filed: 10/0		application.
Delivery m	nethod pursuant to West Virginia Code {	§ 22-6A-16(c)		
CER	TIFIED MAIL] HAND		
	URN RECEIPT REQUESTED	DELIVERY		
return receithe planned required to drilling of damages to (d) The not of notice.	ipt requested or hand delivery, give the sur d operation. The notice required by this be provided by subsection (b), section ten a horizontal well; and (3) A proposed sur the surface affected by oil and gas operati ices required by this section shall be given	face owner whose land subsection shall include of this article to a surfa rface use and compens ons to the extent the da a to the surface owner a	l will be used for de: (1) A copy ace owner whose ation agreemer mages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
Notice is he	ereby provided to the SURFACE OWNI ess listed in the records of the sheriff at the	ER(s)		
(at the auth Name: see a		•		
Address:		Name: _ Address	•	
Pursuant to	ereby given: West Virginia Code § 22-6A-16(c), notice on the surface owner's land for the purpose	e is hereby given that the	e undersigned v	well operator has developed a planned
State: County: District: Quadrangle	Ritchie Clay : Pullman	UTM NAD 8: Public Road A Generally use	Easting: Northing:	505,592.80 4,342,871.67 St Rt. 74 Christa J. Smith
State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi- horizontal vibrace affe information headquarter gas/pages/d	WV Ritchie Clay Pullman North Fork of Hughes River Shall Include: West Virginia Code § 22-6A-16(c), this nded by W. Va. Code § 22-6A-10(b) to a well; and (3) A proposed surface use and cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations.	Public Road A Generally use notice shall include: (1) surface owner whose compensation agreement the damages are co- tained from the Secretar rleston, WV 25304 (Easting: Northing: Access: d farm name: A copy of this land will be unt containing an impensable und	505,592.80 4,342,871.67 St Rt. 74
State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi- horizontal vi- surface affe- information headquarter gas/pages/d	Ritchie Clay Pullman North Fork of Hughes River E Shall Include: West Virginia Code § 22-6A-16(c), this n ded by W. Va. Code § 22-6A-10(b) to a well; and (3) A proposed surface use and cotted by oil and gas operations to the extended to horizontal drilling may be obtained by the content of the content	Public Road A Generally use ootice shall include: (1) surface owner whose compensation agreement the damages are contained from the Secreta	Easting: Northing: Access: d farm name: A copy of this land will be unt containing an impensable und	505,592.80 4,342,871.67 St Rt. 74 Christa J. Smith code section; (2) The information required ased in conjunction with the drilling of a coffer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10"
State: County: District: Quadrangle Watershed: This Notice Pursuant to to be provi- horizontal vibrace affe information headquarter gas/pages/d	WV Ritchie Clay Pullman North Fork of Hughes River Shall Include: West Virginia Code § 22-6A-16(c), this nded by W. Va. Code § 22-6A-10(b) to a well; and (3) A proposed surface use and cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations to the external content of the cotted by oil and gas operations.	Public Road A Generally use notice shall include: (1) surface owner whose compensation agreement the damages are co- tained from the Secretar rleston, WV 25304 (Easting: Northing: Access: d farm name: A copy of this land will be unt containing an impensable und ary, at the WV 304-926-0450)	505,592.80 4,342,871.67 St Rt. 74 Christa J. Smith code section; (2) The information required ased in conjunction with the drilling of a coffer of compensation for damages to the er 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 deprivacyofficer@wv.gov.

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

Surface Owner (Road and/or Other Distrubance)

4708510284

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

4708510264

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

Earl Ray Tomblin Governor

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 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the PUL 97 Pad Site, Ritchie County

516211 PUL97H1

516212 PUL97H2

516213 PUL97H3

516214 PUL97H4

516565 PUL97H7

516215 PUL97H5 516216 PUL97H6

Dear Mr. Martin.

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

Anticipated Frac Additives 7 0 0 5 1 0 2 6 4 Chemical Names and CAS numbers

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



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

Sections:	Salara da	Shield Beni				
Date I	Descinal	DER	Office Use	only	7.42 G	367
1.0	veceived	by Oil & G	as:			1700
Assigi	ned Impoi	undment II	D#:	#07 m		******
	area grant areas	2 28 Carrier 18	Was to the			17.3

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		
Address: Street	P.O. Box 280		
City:	Bridgeport	State: WV	7: 20220
Contact Name:	Columbus Michael Jervis	Contact Title:	Zip: 26330
Contact Phone:	304-848-0013		
		OUNTACT EMAIL.	Obervis@eqt.com

Section 2 - Engineering / Design Contractor Information

Design will be contracted Designed in-house	intormation		
Company Name: Larson Design Group			
Address: Street 2502 Cranberry Square			
City: Morgantown	State: wv	Zip: 26508	
Contact Name: Timothy Kinder	Contact Title:		
Contact Phone: 877-323-6603 Ext. 453	Contact Email:	TKinder@larsondesigngroup.com	
Certifying Professional Engineer: Robert A. Matejczyk			
Professional Engineer Registration Number: 014027			



Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Note: Any waste in a pit will	ındment	oices below:	⊠ Waste Pit	
Name of Structure (Comp.	any Name :)	Flowback Pit		
County: Ritchie	_		istrict: Clay	
USGS 7.5' Quad Map Nar	me: Pullmai	n .	istrict: Clay	
Farm Name:Janotha				
Pad Name: PUL 97				
Surface Owner Name: En	ric & Beth Janotha			
				oximately 2.19 miles North of the
(Note: Give general location, exar	mple: 2 miles sout	th of Smalltown MAY	- Di 00 i o	
tracestied (nearest perent	nial): Buzzar	d Run		Creek)
Distance (Drainage Distance	ce) to nearest	perennial stream	1 250 #	
Location Coordinates (NAD Latitude: 39.235325	Long	Pegrees (xx.xxxx, pitude (Use negat	-xx.xxxx)) ive sign); -80.93	3365
UTM Coordinates : 15	00 1002.63	_	074070	
Access Road Coordinates (junction of staf	te highway access	s)	N
Latitude	Long	gitude (Use nega	-, :tive sign): -80.93	1290
UTM Coordinates :	1563088.16	E	271306.47	
A				N
Approximate Dimensions				,
Lenath: 189 ft.	Width:	134 ft.	Height:	14 ft.
Length; 189 ft. Note: If irregularly shaped, give app	proximate dimensi	ons of long axis.	Height: _	14 ft.
Length; 189 ft. Note: If irregularly shaped, give app Fotal Capacity – Provide all	proximate dimension	ons of long axis. are below:	Height: _	14 ft.
Length; 189 ft. Note: If irregularly shaped, give app	proximate dimension	ons of long axis.	Height:Acre-Feet:	
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity – Provide all (Barrels: 35,960	units of measu Gallons:	ons of long axis. ure below: 1,510,332	Acre-Feet:	
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity — Provide all a Barrels: 35,960 Capacity with 2' Freeboad —	oroximate dimension units of measu Gallons: Provide all uni	ons of long axis. ure below: 1,510,332 its of measure bel	Acre-Feet:	
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity – Provide all (Barrels: 35,960	oroximate dimension units of measu Gallons: Provide all uni	ons of long axis. ure below: 1,510,332	Acre-Feet:	4.64
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity – Provide all a Barrels: 35,960 Capacity with 2' Freeboad – Barrels: 27,622	oroximate dimension units of measu Gallons: Provide all uni	ons of long axis. ure below: 1,510,332 its of measure bel	Acre-Feet:	4.64
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity – Provide all started: 35,960 Capacity with 2' Freeboad – Barrels: 27,622	oroximate dimension units of measu Gallons: Provide all uni Gallons:	ons of long axis. ure below: 1,510,332 its of measure bel 1,160,116	Acre-Feet:	4.64
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity – Provide all a Barrels: 35,960 Capacity with 2' Freeboad – Barrels: 27,622	oroximate dimension units of measu Gallons: Provide all uni	ons of long axis. ure below: 1,510,332 its of measure bel	Acre-Feet:	4.64
Length: 189 ft. Note: If irregularly shaped, give applicated Capacity — Provide all Barrels: 35,960 Capacity with 2' Freeboad — Barrels: 27,622 Incised volume: 34,988	oroximate dimension units of measu Gallons: Provide all uni Gallons: Gallons:	ons of long axis. Ire below:	Acre-Feet: ow: Acre-Feet:	3.56
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity — Provide all a Barrels: 35,960 Capacity with 2' Freeboad — Barrels: 27,622 Incised volume: Barrels: 34,988	proximate dimension units of measu Gallons: Provide all uni Gallons: Gallons: Gallons:	ons of long axis. ure below: 1,510,332 its of measure bel 1,160,116 1,469,325 incised volume.)	Acre-Feet: ow: Acre-Feet:	3.56
Length: 189 ft. Note: If irregularly shaped, give applicated Capacity — Provide all Barrels: 35,960 Capacity with 2' Freeboad — Barrels: 27,622 Incised volume: 34,988	oroximate dimension units of measu Gallons: Provide all uni Gallons: Gallons:	ons of long axis. Ire below:	Acre-Feet: ow: Acre-Feet:	3.56
Length: 189 ft. Note: If irregularly shaped, give app Fotal Capacity — Provide all a Barrels: 35,960 Capacity with 2' Freeboad — Barrels: 27,622 Incised volume: 34,988 Let impounded volume: (Total arrels: 972	proximate dimension units of measu Gallons: Provide all uni Gallons: Gallons: Gallons: Gallons: Gallons:	ons of long axis. Ire below: 1,510,332 its of measure bel 1,160,116 1,469,325 incised volume.) 41,007	Acre-Feet: Acre-Feet: Acre-Feet: Acre-Feet:	4.64 3.56 4.50
Length: 189 ft. Note: If irregularly shaped, give applicated Construction Starrels: 972 Length: 189 ft. Note: If irregularly shaped, give application of the construction starrels arrels: 189 ft. Length: 18	proximate dimension units of measurement Gallons: Provide all uniting Gallons: Gallons: Gallons: Gallons: al volume less Gallons:	ons of long axis. Ire below: 1,510,332 its of measure bel 1,160,116 1,469,325 incised volume.) 41,007	Acre-Feet: Acre-Feet: Acre-Feet: Acre-Feet: Fall 2015	4.64 3.56 4.50

Office of Oil and Gas

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 structure are also
	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 structure with the Office of the Office
	all permits regulating dams will be required prior to use structure qualifies it to be defined as a dam
	The dam standard, from the WVDEP Div. Of Webs-sald Mig the structure with the Office of Oil and Gas
	http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx
	- Egos/deladir.aspX

a				
Section 7 –Comments – Prov	vide any additional ac-			
	ride arry additional cor	nments concerning	I this project	
			1,	



470054000A

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, 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 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.

Name:	Victoria J. Roack
Title:	
Signature:	The It
Taken, subscribed and sworn to bef	ore me this, 30 Day of Sept 20 15
Notary Public:	la Just-
My commission expires:	8-24-22
Notary Seal:	
•	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC
	Pamela Sykes EQT Production PO Roy 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 57th Street, SE
Charleston WW 25304

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



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

THE STATE OF THE S	(Software de	78:2				
er Carlotte		DEP O	ffice Use	only 👬	- V V.	LANCE TO
Date Re	eceived by	/ Oil & Ga	SEE SE	3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	38 205 W	E CONTRACTOR OF THE
4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	经现在地址	4.5	172			
Assigne	ed Impoun	dment ID	#:	No. 12 Ann		English Me
<u>्रिक्षित्र व्यक्तिक्ष्य</u>	新型器区和通過	A Service of the serv	1777			A PORT

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

EQT Production Company				
306686				
P.O. Box 280				
Bridgeport	State: MA/	 -	00000	
Columbus Michael Jervis			26330	
	_ Contact Litle:			
304-848-0013	Contact Email:	C.lervis@eat.com		
	_ Outlact Linaii.			
	EQT Production Company 306686 P.O. Box 280	EQT Production Company 306686 P.O. Box 280 Bridgeport State: W Columbus Michael Jervis Contact Title:	EQT Production Company 306686 P.O. Box 280 Bridgeport State: W Zip: Columbus Michael Jervis Contact Title:	EQT Production Company 306686 P.O. Box 280 Bridgeport State: W Zip: 26330 Columbus Michael Jervis Contact Title:

Section 2 – Engineering / Design Contractor Information

Design will be contracte	d Designed in-ho		····oiiiati			
Company Name:	Larson Design Grou	ıp				
Address: Street	2502 Cranberry Squ	are	-			
City:	Morgantown		State:	w	Zip:	26508
Contact Name:	Timothy Kinder		— Contact	Title:	Director of Oper	rations - Energy Group
Contact Phone:	877-323-6603 Ext. 453		Contact E			ndesigngroup.com
Certifying Professional E Professional Engineer R	- , , , , , , , , , , , , , , , , , , ,	Matejczyk, F 014027	PE			





Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:
Freshwater Impounded and
Note: Any waste in a pit will make it a waste pit.
waste in a pit will make it a waste pit.
Name of Structure (Company Name :) Completion Pit
County: Ritchie Diotriet Class
USGS 7.5' Quad Map Name: Pullman
Farm Name:Janotha
Pad Name: PUL 97
Surface Owner Name: Eric & Beth Janotha
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)
Transformed (nearest perennial): Buzzard Run
Distance (Drainage Distance) to nearest perennial stream: 1,390 ft.
Location Coordinates (MADOS =
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx)) Latitude: 39.234863
UTM Coordinatos: Longitude (Use negative sign): -80.937277
toda Socialitates (junction of state highway access)
Latitude: 39.236281 Longitude (Use negative sign): -80.931290
E 271306.47 N
Approximate Dimensions
Length: 238 ft. Wester, 100 ft
Note: If irregularly shaped, give approximate dimensions of long axis. Height: 14 ft.
Total Capacity – Provide all units of measure below
Barrels: 142,485 Gallone: 5,984,371
Acre-Feet: 18.37
Capacity with 2' Freeboad – Provide all units of measure below:
Darreis: 117,700 College: 4,043,447
Gallons: 4,343,417 Acre-Feet: 15.17
Incised volume:
Barrels: 39,964 Gallons: 1,678,296 Acre-Feet: 5.14
Net impounded volume: (Total volume less incised volume.)
Barrels: 102,521 Gallons: 4,306,075 Acre-Feet: 13.23
Anticipated Construction Start Date (estimation, non-binding): Fall 2015
Note: No construction may begin on Associoated impoundment until WVDEP issues the drilling permit. At least 7 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.

	E :
×	Engineered Construction Discourse and the second se
	- Sind Construction Plans, certified by MAY Registered D. C.
(V)	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 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 Waste, is available for review at: http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 -	-Comments - Provide	any additional com	nments concerning	this project	

Office of Oil and Gas

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: Title: Decontors Signature:	
the ft	
Taken, subscribed and sworn to before me this, 30 Day of Sept 20 1	5
My commission expires: 8-24-22	
Notary Seal:	
STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 Bridgeport, WV 26330 My Cammission 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 57th Street, SE
Charleston WW 25304

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

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**.

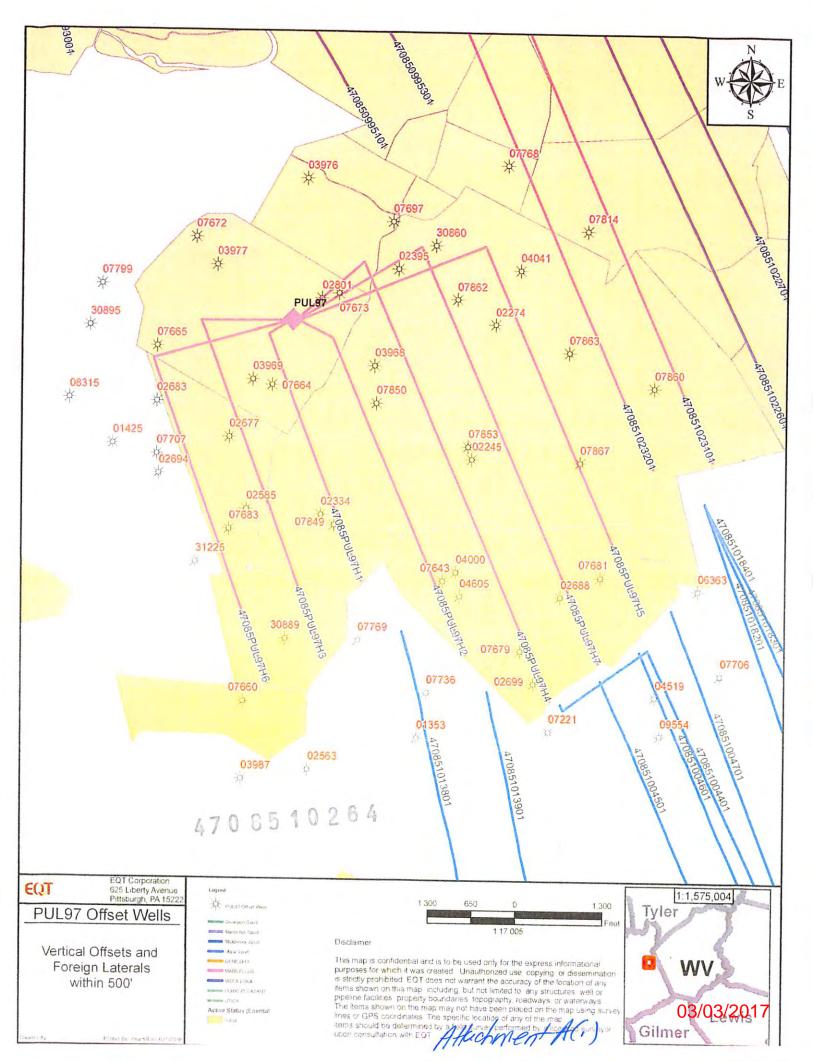
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

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, gas or pressure
- Inspect or install master valves or other necessary equipment for wellhead integrity capable of a pressure recommended by EQT
- Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

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



WellID	WellStatus	date	FmatTD	Permit	Operator	Longitudii	1.5875.740	1	D . 51			
4708501353		10/16/1951			GUS MILLER	Longitude en apec	- catitude + 39.2183		DatumEleva	•	TD	Distance form Pad to
4708501425	DRY	9/30/1952			G L DUDLEY) 39.2300		1104.0000			
4708502245	GAS	10/26/1960			T F HODGE		39.2295		993.0000			
4708502274	GAS	1/22/1961	LOWER HURON SHALE	02274	T F HODGE) 39.2293) 39.2349		1149.0000			3335.74
4708502334	GAS	5/10/1961			T F HODGE) 39.2272		872.0000			3001.81
4708502395	GAS-P	8/11/1961			T F HODGE) 39.2272) 39.2371		838.0000			2879.38
4708502563	DRY	8/31/1962		02563	REBEL HILL OIL & GAS		39.2371		908.0000			1731.40
4708502585	GAS	10/16/1962		02585	OIL STATES SALES		39.2170		1010.0000	1005.0000		6566.49
4708502677	GAS	1/6/1963		02677	PETROLEUM DRILLING	80.9388			828.0000	1040.0000		2857.07
4708502683	GAS	2/15/1963		02683	PETROLEUM DRILLING		- 39 2303 - 39 2317		821.0000	1048.0000		1956.75
4708502688	GAS	3/2/1963		02688	OIL STATES SALES	80.9426			890.0000	-1015.0000		2346.24
4708502694	GAS	4/19/1963		02694	PETROLEUM DRILLING		39.2288		953.0000	1101.0000		566 0.97
4708502699	GAS	5/1/1963		02699	OIL STATES SALES		39.2288		960.0000	1027.0000		3010.13
4708502801	GAS	10/3/1963		02801	MOUNTAIN STATE	80.9340			953.0000	1034.0000		6394.50
4708503968	UNK	3/20/1916		03968	MOUNTAIN ST (OLD EQU				820.0000	1020.0000		531.59
4708503969 I	JNK	6/9/1916		03969	MOUNTAIN ST (OLD EQU		39.2332				100950.0000	1386.58
4708503976	P&A	10/14/1917		03976	EQUITRANS		39.2326				100930.0000	1063.58
4708503977 (GAS	3/8/1918			EPC		39.2407				100774.0000	2076.76
4708503987 F	P&A	10/22/1919			EQUITRANS		39 2372		905.0000	993.0000		1382.62
4708504000 S	WD-P	6/3/1926		04000	EPC	80.9381					100946.0000	6747.47
4708504041	SAS	10/5/1978			MURVIN OIL		39 2250				101137.0000	439 8.66
4708504519	SAS		RHINESTREET SHALE	04519	HAUGHT		39 2371		950.0000	1556.0000	2506.0000	3453.43
4708504605 U	INK	10/17/1980	311110	04605	PETROLEUM DRILLING	80 9164	39.2200		1066.0000	4840.0000	5906.0000	7692.16
4708506363 C		12/7/1984			BIG A OIL	80.9267	39 2240		1140.0000		101139.0000	4723.74
4708507221 G		8/5/1985		_	STALNAKER ENERGY		39 2243		890.0000	-4313.0000	5203.0000	7184.76
4708507643 G			RHINESTREET SHALE		ECA ENERGY		39.2186		978.0000	4357.0000	5335.0000	7096.79
4708507660 G		7/24/1987			ECA	80.9276			1097.0000	4523.0000	5620.0000	4404.87
4708507664 G		8/17/1987			EAE	80.9380	39.2197		961.0000	-4220.0000	5181.0000	5623.26
4708507665 G	AS	8/22/1987			ECA	80 4366	39 2324		922.0000	4291.0000	5213.0000	1004.16
4708507672 G		11/23/1988		07672		80 9426	39 2339		1043.0000	4203.0000	5246.0000	2051 .52
4708507673 G		9/15/1987			ECA	80 9406			1015.0000	-4187.0000	5202.0000	1873.43
4708507679 G		9/20/1987			ECA	80 9331			894.0000	4197.0000	5091.0000	784.77
4708507681 G		10/31/1988		07681		80.9235			1052.0000	-4286.0000	5338.0000	5892.52
4708507683 G		9/29/1987			ECA	80.9193	39.2248		1063.0000	-4278.0000	5341.0000	5907.29
4708507697 G		10/11/1987		07697	-	80.9388			954.0000	5722.0000	6676.0000	3205.56
4708507706 GA		10/30/1987			BET RO	80.9303			787.0000	-4298.0000	5085.0000	2065.33
4708507707 GA		3/19/1988			ECA		39.2209		1083.0000	-4224.0000	5307.0000	8187.47
4708507736 GA	_	1/5/1988			ECA	80.9426			1045.0000	-4205.0000	5250.0000	2817.64
4708507768 GA		5/12/1988			ECA		39 2201		918.0000	4282.0000	5200.0000	5 793 .00
4708507769 GA		3/27/1988			ECA	80.9243			1042.0000	3562.0000	4604.0000	3909.13
4708507799 GA		3/16/1988			BEACON	80 9320			1121.0000	-4254.0000	5375.0000	4772.36
4708507849 GA		//30/1989		07849		80.9455			1020.0000	3614.0000	4634.0000	2875.66
4708507850 GA		/12/1989		07850		80.9333			923.0000	-4217.0000	5140.0000	3057.65
4708507853 GA	-	/22/1989		07853			39 2317		984.0000	4216.0000	5200.0000	1736.43
4708507862 GA		/27/1989		07 8 62 8		80.9263			1082.0000	-4239.0000	5321.0000	3182.76
	_	. ,		0,002 5	.ca	80.9269	39.2359		935.0000	3873.0000	4808.0000	2456.04

4708507860 GAS	4/U85U/814 GAS			4708530889 GAS	4708530860 GAS	4/08509554 GAS	4/08508315 GAS	4/U850/86/ GAS	4/0850/863 GAS
9/15/1989 DEVONIAN		_	10///1924	8/5/1920	2/8/1917	8/25/2008	4/29/1994	10/14/1989	9/8/1989
07860 ECA	07814 ECA	31225 EPC	30895 PGH & WV GAS	_			08315 EAE		-
80.9165	80 9201	80.9406	80.9461	80.9358	80.9280	-80.9161	-80.9472	80.9204	80.9210
39.2324 ALEXANDER	39.2387 ALEXANDER	39.2253	39.2347	39.2222	39.2381	39.2185	39.2318	39 2294	39.2338
						1150.0000	-		922.0000
		1027.0000	-2000.0000	-1984.0000	-1026.0000	-4310.0000	-4178.0000	·4317.0000	-3612.0000
4452.0000	4452,0000	2015.0000	2001.0000	1985.0000	1816.0000	5460.0000	5200.0000	5196.0000	4534.0000

4129.87 4740.54 3514.58 8149.81 2381.88 4662.01 3006.33 3825.41 4571.26 5456.40 Affa Charent

PROJECT INFORMATION

PROJECT NAME: EQT PUL 97 CLAY DISTRICT, RITCHIE COUNTY, WV

SURFACE OWNER: TOTAL PROPERTY AREA: 69.88 ACRES TOTAL DISTURBED AREA: 26.55 ACRES IMPACTED FORESTED AREA: 13.20 ACRES PID 3-36-7 DISTRICT 3 MAP 36 PARCELS 4, 7

TOTAL PROPERTY AREA: 79.21 ACRES
TOTAL DISTURBED AREA: 18.83 ACRES ERIC & BETH JANOTHA

IMPACTED FORESTED AREA: 1.93 ACRES

PHONE: (304) 348-3870 BRIDGEPORT, WV 26330

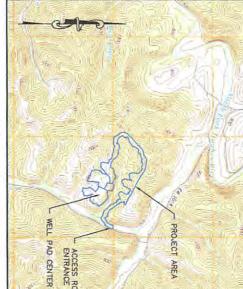
WVDEP OOG APPROVED 3/3/2017

EQT PRODUCTION COMPANY

PHONE: (304) 777-2940

P.O. BOX 280 OPERATOR ID: 306686 OPERATOR

MORGANTOWN, WV 26508 2502 CRANBERRY SQUARE LARSON DESIGN



PULLMAN QUADRANGLE WEST VIRGINIA SCALE: 1" = 2000" CEGISTER S

XX 20

MATE

014027

SIONAL ENGLAPION

WELL PAD ELEVATION	H5-516215	H7-516565	H4-516214	H6-516216	H3-516213	H1-516211	H2-516212	WELL NAME
938.80	N 270981.69 E 1562033.14	N 270988.31 E 1562019.67	N 270994.93 E 1562006.21	N 271001.54 E 1561992.74	N 271008.15 E 1561979.28	N 271014.76 E 1561965.81	N 271021.37 E 1561952.35	WV NORTH NAD 83
	LON -80.935053	LON -80.935101	LAT 39.235112 LON -80,935149	LON -80.935197	LAT 39.235147 LON -80.935245	LON -80.935293	LAT 39.235182 LON -80.935341	LAT & LONG

PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT. RESTRICTIONS NOTES

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

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.

West Virginio State Law (Section XIV. Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. MISS Utility of West Virginia 1-800-245-4848

1. THERE ARE ING WEILANDS 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 FACULITES WITHIN 1000 FEET OF THE WELL PAD AND LOD.

5. THERE ARE NO GROUNDWATER WITHIN SWITHIN 625 FEET OF THE WELL PAD WELLING SINGLUTERS WITHIN 625 FEET OF THE WELL PAD.

7. THERE ARE NO OCCUPIED WELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

16-24 13-15 10-11

ACCESS ROAD CROSS SECTIONS WELL PAD AND STOCKPILE CROSS SECTIONS 12 5-9

WELL PAD CROSS SECTIONS

EQT Corporation 120 PROFESSIONAL PL BRIDGEPORT, WV 26330 PHONE 304.848.0000

ROAD PROFILE SITE LAYOUT OVERALL PLAN SHEET INDEX GENERAL NOTES COVER SHEET

30-40 25-29

EROSION CONTROL DETAILS RECLAMATION PLANS

9

4

7936-002

CONSTRUCTION QUANTITIES

EQT PUL 97 SITE PLAN EQT PRODUCTION COMPANY

ENTRANCE WETLAND DELINEATIONS WERE PERFORMED BETWEEN DECEMBER 11, 2014
HROUGH JANUARY 23, 2015 BY LARSON DESIGN GROUP TO REVIEW THE
SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE
SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE
REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF EVIGINEERS (USAGE)
AND/OR THE WEST VIRGINA DEPARTMENT OF EVINFONMENTAL
PROTECTION (WYDEP). 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. THE
MAPS DO NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL
DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS
WHICH MAY BE REGULATED BY THE USAGE OR THE WYDEP. IT IS
STRONGLY RECOMMENDED THAT THE AFFOREMENTONED, ACENVEES BE
CONSTRUCTION ON THE REPORT TO ESCRIBED HEREIN. THE DEVELOPER
SHALL OBTIAN THE REPORT TO ESCRIBED HEREIN. THE DEVELOPER
SHALL OBTIAN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR
STATE REGULATORY ACENVEES PRORE TO ENGAGING
STATE REGULATORY ACENVEES PRORE TO SECONSTRUCTION OF THE
DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING
STATE REGULATORY ACENVEES PRORE TO ENGAGING
STATE REGULATORY ACENVEES PRORE TO ENGAGING
STATE REGULATORY ACENVEES PRORE TO SHOW PROPOSED IMPACTS TO
WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM LATITUDE: 39.234863 LONGITUDE: -80.937277 N 270913.97 E 1561402.00 (WV NORTH NAD 83) LATITUDE: 39.235277 LONGITUDE: -80.937146 N 271064.14 E 1561441.45 (WV NORTH NAD 83) EOT WILL OBTAIN AN ENGROACHMENT PERMIT (FORM MM-109) FROM MEST VARIGINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CENTER OF 40,000 BBL TANK ENVIRONMENTAL NOTES ENTRANCE PERMIT

GEOTECHNICAL NOTE

A GEOTECHNICAL INVESTIGATION HAS NO
CONSEQUENTLY, THE DESIGN OF THE SIT
THESE DRAWINGS WAS PREPARED BY LD
GEOTECHNICAL INFORMATION AND LDG DI
EFFICACY OF THIS DESIGN.

LDG RECOMMENDS COMPLETION OF A DE INVESTIGATION AND EVALUATION/REDESIGN PRIOR TO CONSTRUCTION, THE OWNER A OF THESE DRAWNGS TO CONSTRUCTION

SHEET INDEX

ETAILED GEOTECHNICAL	OT COMPLETED FOR THIS SITE.
IGN OF THE SITE MAPROVEMENTS	TE MPROVEMENTS DEPICTED ON
ASSUMES ALL RISK IN THE USE	DO MITHOUT DETAILED
IMPROVEMENTS ON THIS SITE.	DOES NOT GUARANTEE THE
	R SHEET

COVE	R SHEET
	7 WELL SITE
	Larcon Design Gro

oup · Architects Engir Larson Design Group 2502 Cranberry Square Morgantown, WV 26508 PHONE 304,777,2940 TOLL FREE 877,323,6603 FAX 570.323.6603 • www.larsc

	1	191		
5	11/25/15	REPLACE PITS WITH AST	JWD	RA
4	9/24/2015	FINAL SITE DESIGN	CWL	RA
3	9/1/2015	FINAL SITE DESIGN	JWD	RA
2	8/31/2015	FINAL SITE DESIGN	JWD	RA
1	6/8/2015	FINAL SITE DESIGN	JWD	ВМ
NO	DATE	COMMENTS	BY	DH
		ISSUE / REVISIONS		

표

(NAD

83)

arson Design Group M

ACCESS ROAD ENTRANCE
LATITUDE: 39.236018 LONGITUDE: -80.931364

-80.931364 (NAD 83) 83)

LOCATION COORDINATES

CENTER OF WELL PAD LATITUDE: 39.235021

LONGITUDE:

(WV NORTH NAD 83)

(NAD 83)

N 270962.12 E 1561988.38

CENTER OF 60,000 BBL TANK

(NAD

83)

