

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 516214

47-085-10260-00-00

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

C

Operator's Well Number: 516214 Farm Name: SMITH, CHRISTA J.

U.S. WELL NUMBER: 47-085-10260-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 3/3/2017

Promoting a healthy environment.

API Number: _85-10260

PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. The operator shall install noise barriers during drilling and completion activities.
- 3. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 4. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 5. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 6. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 7. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 8. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 9. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 10. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 11. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas/2017 inspector shall be notified within 24 hours.

API Number: 85-10240

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:

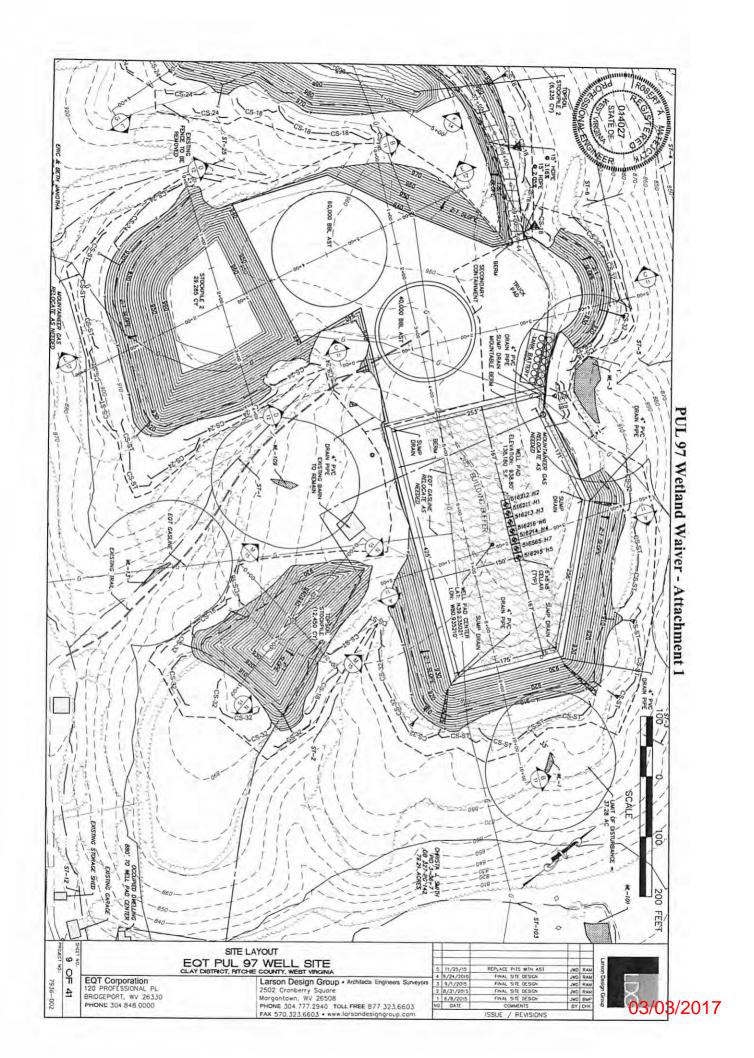
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least a twenty four inches (24") in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment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

By:

AMES A. MARTIN, CHIEF



API NO. 47-85	_	10260
OPERATOR V	WELL	NO. 516214
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 P	roduction Compa	ny 306686	Ritchie	Clay	Pullman
2) Operator's Well Number	r: 516214	Operator ID Well	County Pad Name: PU	District L97	Quadrangle
3) Farm Name/Surface Ow	ner: Christa J. Sm	nith Public F	Road Access: S	T RT 74	
4) Elevation, current groun 5) Well Type (a) Gas	d: 945.0 x Oil	Elevation, propos	ed post-constru		
Other (b)If Gas	Shallow X Horizontal X	Deep			Michael Soy
6) Existing Pad: Yes or No	No				loules
7) Proposed Target Formati Marcellus, 6203, 50, 2190	ion(s), Depth(s), Ar), Top of Marcellus 6	nticipated Thicknes	s and Expected	Pressure(s):	1/24/11
8) Proposed Total Vertical	Depth: 6203				
9) Formation at Total Verti	cal Depth: Marce	llus			
10) Proposed Total Measur	ed Depth: 14069				
11) Proposed Horizontal Le	eg Length: 6973		347		
12) Approximate Fresh Wa	ter Strata Depths:	46, 74, 177, 2	.73		
13) Method to Determine F14) Approximate Saltwater		By offset wells			
15) Approximate Coal Sear	n Depths: 248, 55	0			
16) Approximate Depth to 1	Possible Void (coal	mine, karst, other)	: None report	ed	
17) Does Proposed well loc directly overlying or adjace			1	10 X	
(a) If Yes, provide Mine I	nfo: Name:				
	Depth:				
	Seam:				
	Owner:				RECEIVER
				(Office of Oil and

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Weeler artment of Environment 93/2017

WW-6B	
(04/15)	

API NO. 47-85 -	10260
OPERATOR WEL	
Well Pad Name	PUL97

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft^3/CTS
Fresh Water	13 3/8	New	J-55	54.5	605	605	581 ft^3/CTS
Coal	-	4	11-11	-	-	-	00111 0/013
Intermediate	9 5/8	New	A-500	40	2250	2250	888 ft^3/CTS
Production	5 1/2	New	P-110	20	14069	14069	500° above top producing zone
Tubing	2 3/8		J-55	4.6		1-7000	May not be run, if set 100' from TD.
Liners					-		10. 100 Ion 10.

124/17

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	÷	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2730	2184	See Variance	1.19
Coal	100					2014-17	1.10
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	2014-17	1.07/1.86
Tubing	100				,5112		1.07/1.00
Liners							-

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

Office of Oil and Gas

JAN 3 0 2017

Wy Department of Environmental Protection

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WW-6E	
AA AA-DE	,
(10/14)	
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API NO. 47- <u>85</u>	10260
OPERATOR WELL	NO. 516214
Well Pad Name:	PUL97

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 3863'. 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 at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers- One cent at the shoe and one spaced every 500'.
- Production: One solid body cent 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 sturnes, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement sturny to a third zone, the loss of whole drilling fluid or cement sturny (not filtrate) to a third zone.

Production:

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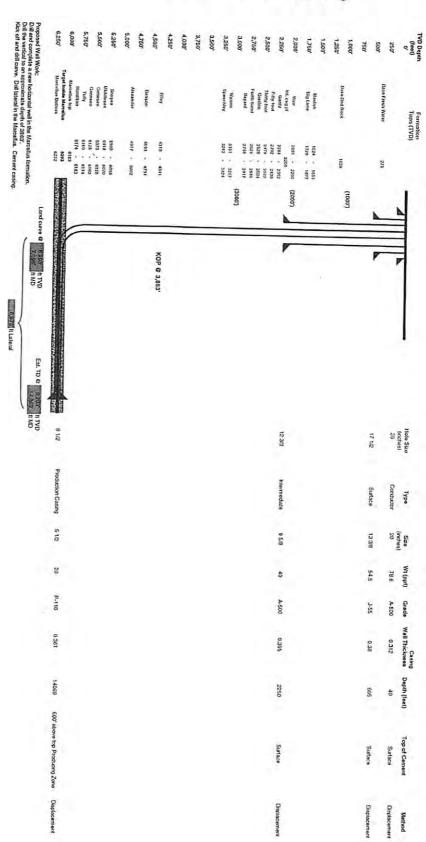
25) Proposed borehole conditioning procedures:

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.

Page 3 of 3



MPU 17 1/02/17 03/03/2017

516214(PUL97H4)

Pad Name

West Virgina

Arlmoth 151.31.

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: PUL97

Ritchie County, WV

1/9/17

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**.

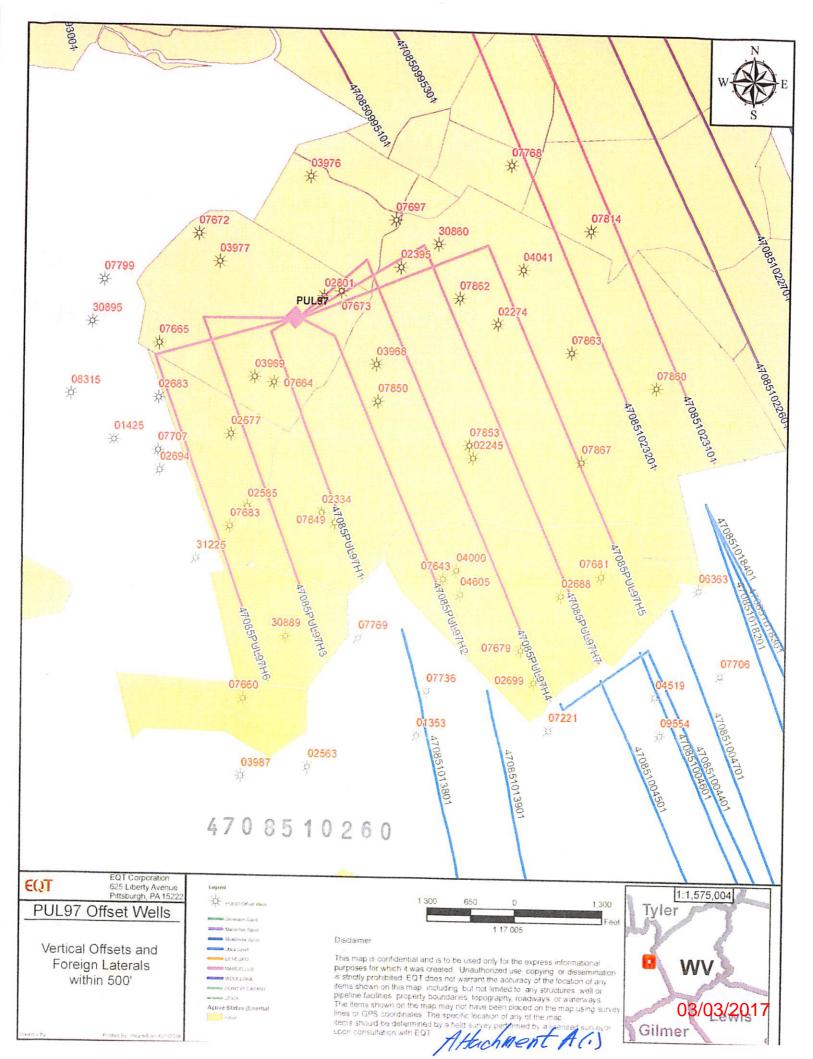
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

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

2. Reporting

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



Attachment A(2)

4708507863 GAS 4708507867 GAS 4708508315 GAS 4708509554 GAS 4708530860 GAS 4708530889 GAS 4708530895 GAS 4708531225 GAS 4708507814 GAS 4708507860 GAS
9/8/1989 10/14/1989 4/29/1994 8/25/2008 2/8/1917 8/5/1920 10/7/1924 11/12/1917 10/22/1988 RILEY 9/15/1989 DEVONIAN
07863 07867 08315 09554 30860 30889 30895 31225 07814
ECA ECA E A E E A E KEY OIL PGH & WV GAS PGH & WV GAS PGH & WV GAS EPC ECA ECA
80.9210 80.9204 80.9472 80.9161 80.9358 80.9461 80.9406 80.9201 80.9201
39 2338 39 2294 39.2318 39.2185 39.2381 39.2222 39.2347 39.2253 39 2387 ALEXANDER 39 2324 ALEXANDER
922.0000 879.0000 1022.0000 1150.0000 790.0000 1.0000 988.0000
-3612.0000 -4317.0000 -4178.0000 -4310.0000 -1026.0000 -1984.0000 -2000.0000 -1027.0000
4534.0000 5196.0000 5200.0000 5460.0000 1816.0000 1985.0000 2015.0000 4452.0000 4452.0000

4129.87 4740.54 3514.58 4740.54 8149.81 2381.88 4662.01 3006.33 3825.41 4571.26 5456.40 A



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.

1

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.



west virginia department of environmental protection

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

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

2014 - 17

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

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

REPORT OF THE OFFICE

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

FINDINGS OF FACT

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

Promoting a healthy environment.

CONCLUSIONS OF LAW

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

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

ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas

API Number	47 - 85	- 10260	
Ope	rator's Well]	No. 518214	

03/03/2017

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

	FLUIDS/ CUTTINGS DISPOS	SAL & RECLAMATION PI	LAN	
Operator Name EQT Production Compan	ly	OP Code	306686	
Watershed (HUC 10) North Fork	: Hughes River	Quadrangle Pennsboro		•
Do you anticipate using more tha	n 5,000 bbls of water to complet		Yes No No	
Will a pit be used? Yes	No	• •	110	
If so, please describe an	ticipated pit waste:n/a			
Will a synthetic liner be	used in the pit? Yes 1	No If so, what ml.	? n/a	
Proposed Disposal Meth	od For Treated Pit Wastes:			
	Application			
Underg	ground Injection (UIC Permit N (at API Number Vætous	umber_0014, 8462, 4037)	
	te Disposal (Supply form WW-9	for disposal location)		
Other	(Explain_	Tor disposar location)		
Will closed loop system be used? Drilling medium anticipated for the	If so, describe: prepared for transport	ation to an off-site disposal facility.	the drilling fluid. The drill cuttings are the	- 9/24/17
-If oil based, what type?	Synthetic, petroleum, etc. Synthe	etic Mud		
Additives to be used in drilling me	edium? See Attached			
Drill cuttings disposal method? L	eave in pit, landfill, removed off	site, etc. Landfill		•
-If left in pit and plan to s	solidify what medium will be use	d? (cement, lime, sawdust)	N/A	-
	permit number? See Attached List			_
Permittee shall provide written not West Virginia solid waste facility. where it was properly disposed.	tice to the Office of Oil and Gas of The notice shall be provided wit	of any load of drill cuttings o hin 24 hours of rejection and	or associated waste rejected at an I the permittee shall also disclos	- ny e
provisions of the permit are enformed and the enformed application form and all attachments obtaining the information, I belie penalties for submitting false information of the enformation of the enforcement of the enforce	cement action. f law that I have personally execute the state of the	amined and am familiar with my inquiry of those indi	ental Protection. I understand the eneral permit and/or other appleth the information submitted of the control	nat the icable on this
Company Official (Typed Name)_	//	1		
Company Official Title Permitting	Supervisor			
Subscribed and sworn before me the Subscribed and Subscr	is 24th day of 4e	busy 20	PRECEIVED OF Oil an Office of Oil an Office of West Market State of West Minds	d Gas
-	7-7-0		Environmental	nent of profession
			Environment	3/03/2017

orm WW-9 Operator's Well No. 516214 Proposed Revegetation Treatment: Acres Disturbed ______ 45.38 Prevegetation pH ___ 3 Tons/acre or to correct to pH ____ Granular 10-20-20 Fertilizer Amount 1/3 lbs/acre (500 lbs minimum) 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre KY-31 Orchard Grass 15 Alsike Clover Alsike Clover Annual Rye 15 Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by:

Title:

Field Reviewed?

WW-9

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

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

Additives to be used in drilling medium?

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

EQT Production Water plan Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

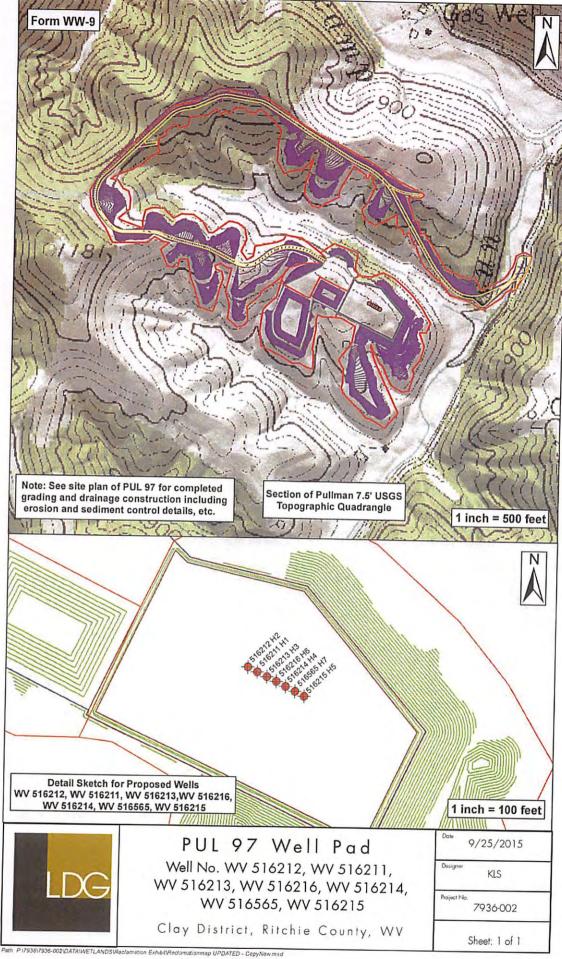
37 West Broad Street
Suite 1100
Columbus, Ohio 43215
740-516-5381
Washington County/Belpre Twp.
Permit # 8462

TRIAD ENERGY

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

KING EXCAVATING CO.

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



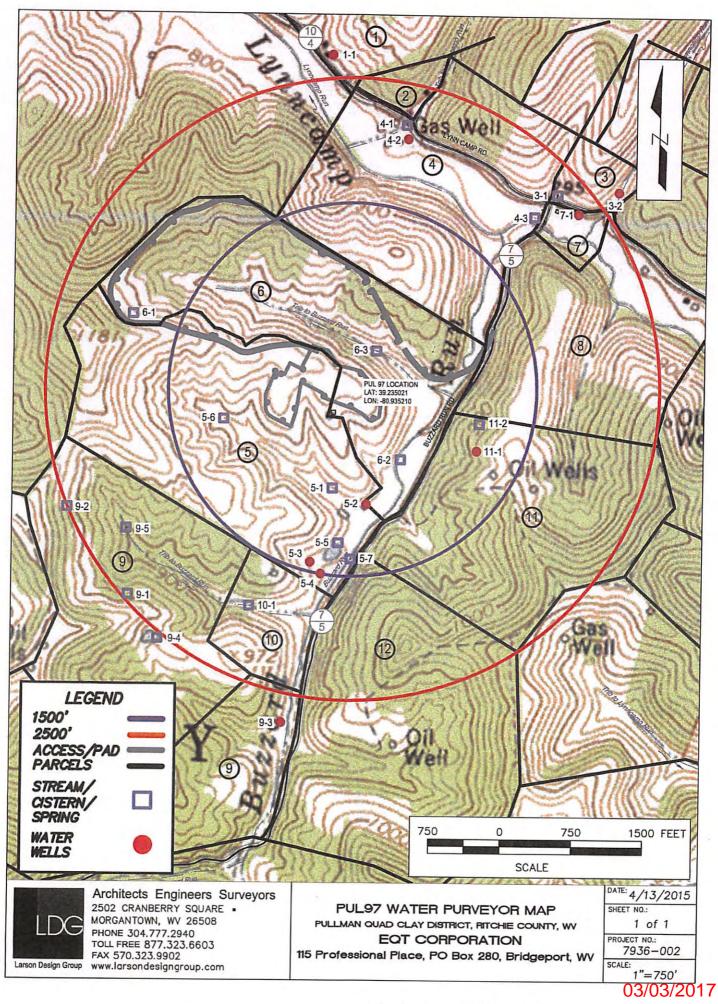


Site Specific Safety Plan

EQT PUL97 Unit Pad

Pullman Ritchie County, WV

_516211	516212	516213	For Wells: 516214	516215	516216	_516565
EQT Production Der mittille	Spenus	5007	Date Prepare	d: January 9, WV Oil and	2017 hael Gas Inspector	Hoff
Title // /// Date	7	_		Title Date	24/17	



EQT PRODUCTION COMPANY WELL NO. 516214 - Ashley E. Ness, Jr. et al PAGE 1 OF 2

UTM NAD83 ZONE 17N	TOPHOLE	N-4342869.73	E-505596.94
	LANDING PT	N-4343131.21	E-505901.28
(METERS)	BOT HOLE	N-4341184.49	E-506752.23
NAD27 SPC FEET NORTH ZONE	TOPHOLE	N-270960.79	E-1593447.21
	LANDING PT	N-271802.16	E-1594460.28
	BOT HOLE	N-265367.14	E-1597146.06
NAD27 GEO LAT(N) LONG(W)	TOPHOLE	N039.235030	W080.935319
	LANDING PT	N039.237385	W080.931790
	BOT HOLE	N039.219836	W080.921950

MINERAL OWNERS	AREA (Ac±)	LEASE #
David A. Dorward, et al	77	105408
Orma M. Johnson, et al	627	105675
Richard Barnard, et al	170	118340

	PROPE	RTY TIES
L1	S32°39'W	1529.4
L2	N70°29'E	1158.3

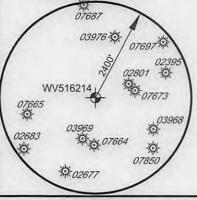
HORIZ	ONTAL BORE GE	OMETRY
TH-LP	AZ 050.2899°	1316.9'
LP-BH	AZ 157.3458°	6973.0'

TOTAL HORIZONTAL LENGTH - 9.045

/	
15.0	WV516212-H2
15.0	ក់ WV516211-H1
15.0	WV516213-H3
15.0	WV516216-H6
15.0	WV516214-H4
15.0	MV516565-H7
-	WV516215-H5
	97 WELLHEAD ALIGNMENT (NTS)

	PROPERTIES	CROSSED BY BORI	E		
TAB	OWNER	DISTRICT	TAX MAP #	PARCEL#	ACREAGE
1	CHRISTA J. SMITH	CLAY	3-36	P/O #7	69.88 Ac±
2	FOUSS FARMS, LLC	CLAY	3-36	3.4	70.65 Ac±
3	FAITH E. COTTRILL	CLAY	3-36	8.2	51.88 Ac±
4	JOHN R. & ROSE MARIE SUDOL	CLAY	3-36	17	59.56 Ac±
5	PEGGY WINCE	CLAY	3-36	19	69.5 Ac±
6	PEGGY WINCE	CLAY	3-36	33	95.788 Ac±
7	PEGGY WINCE	CLAY	3-36	32	72.63 Ac±

	PROPERTIES ADJOINING THO	OSE CROSSED	BY BORE (A	ABOVE)	
TAB	OWNER	DISTRICT	TAX MAP #	PARCEL#	ACREAGE
A	ELF, LLC	CLAY	3-36	6	184.724 Ac±
В	MICHAEL L. DAVIS	CLAY	3-36	P/O #7	79.21 Ac±
C	FRANK J. OSTROWSKY	CLAY	3-36	18	89.25 Act
D	ROBERT F. & IRENE D. PUGH	CLAY	3-36	31	51.9 Ac±
E	ROBERT F. & IRENE D. PUGH	CLAY	3-40	10.1	2.89 Ac±
F	JUNE C. BERKLEY FAMILY TRUST	CLAY	3-40	25	81.37 Ac:
G	CLIFTON A. & SHIRLEY M. SAMPLES, ET AL	CLAY	3-36	37	32 Ac±
Н	CHARLES E. COTTRILL, JR	CLAY	3-36	33.1	1.212 Ac±
1	CAROL MAY MCATEE	CLAY	3-36	34	11.69 Ac±
J	PEGGY L. VANMETER ET AL	CLAY	3-36	20	48.88 Ac±
K	EVERETT MCATEE	CLAY	3-36	20.1	16.53 Ac±
L	BERNARD & CAROL LEE MCATEE	CLAY	3-36	20.2	0.45 Ac±
M	PAUL W. HILVERS	CLAY	3-36	9	90.70 Ac
N	FOUSS FARMS, LLC	CLAY	3-36	8	19 Ac±
0	JOSEPH & VIRGINIA M. MEANS	CLAY	3-36	8.1	4.62 Act
P	RANDALL O. LAMM	CLAY	3-36	3.3	7.43 Ac
Q	FOUSS FARMS, LLC	CLAY	3-36	3.1	12.472 Ac
R	FOUSS FARMS, LLC	CLAY	3-36	2	6.38 Ac±
S	ANASTASIA M. HILVERS	CLAY	3-36	6.2	14 Ac±



7000 000	I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT
FILE NO 7936-002	IS CORRECT TO THE BEST OF MY KNOWLEDGE AND
DRAWN BY DMS	BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY
SCALE 1 INCH = 2000 FEET	THE DIVISION OF ENVIRONMENTAL PROTECTION
MIN DEGREE OF ACCURACY 1 IN 2500	- David M. Swannon

OF CENSES No. 2034 FARTHER TONAL

(+) DENOTES LOCATION OF WELL

PUL97/DATA/SURVEY/SURVEYS/EQT PUL 97 FINAL PLAT (NEW), DWG



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

1-5-2017 DATE OPERATORS WELL NO. WV516214

API WELL NO. 085 47 COUNTY STATE

ON	UNITED	STATES
TO	POGRAP	HIC MAPS

OIL

IF "GAS",

WELL TYPE:

П	GAS	IXI

PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

LIQUID INJECTION STORAGE DEEP PRODUCTION X

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

WASTE DISPOSAL

P.S. #2034

SHALLOW X ELEVATION (EXIST) 945.0

(PROP) 938.8

LOCATION: WATERSHED BUZZARD RUN - NORTH FORK HUGHES RIVER COUNTY/DISTRICT RITCHIE COUNTY - CLAY DISTRICT

QUADRANGLE PULLMAN - SEC. 2

03/03/2017^N

SURFACE OWNER CHRISTA J. SMITH

ACREAGE 69.88 AC (DEED) ACREAGE 150 AC

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

DRILL DEEPER REDRILL _LEASE#_105410

PROPOSED WORK:	DRILL X	CONVERT
	PLUG OFF O	LD FORMATION

PERFORATE NEW FORMATION

FRACTURE OR STIMULATE X PLUG & ABANDON |

TARGET	FORMA"	TION:

MARCELLUS

ESTIMATED DEPTH 6183

DESIGNATED AGENT REX C. RAY

WELL OPERATOR: EQT PRODUCTION COMPANY

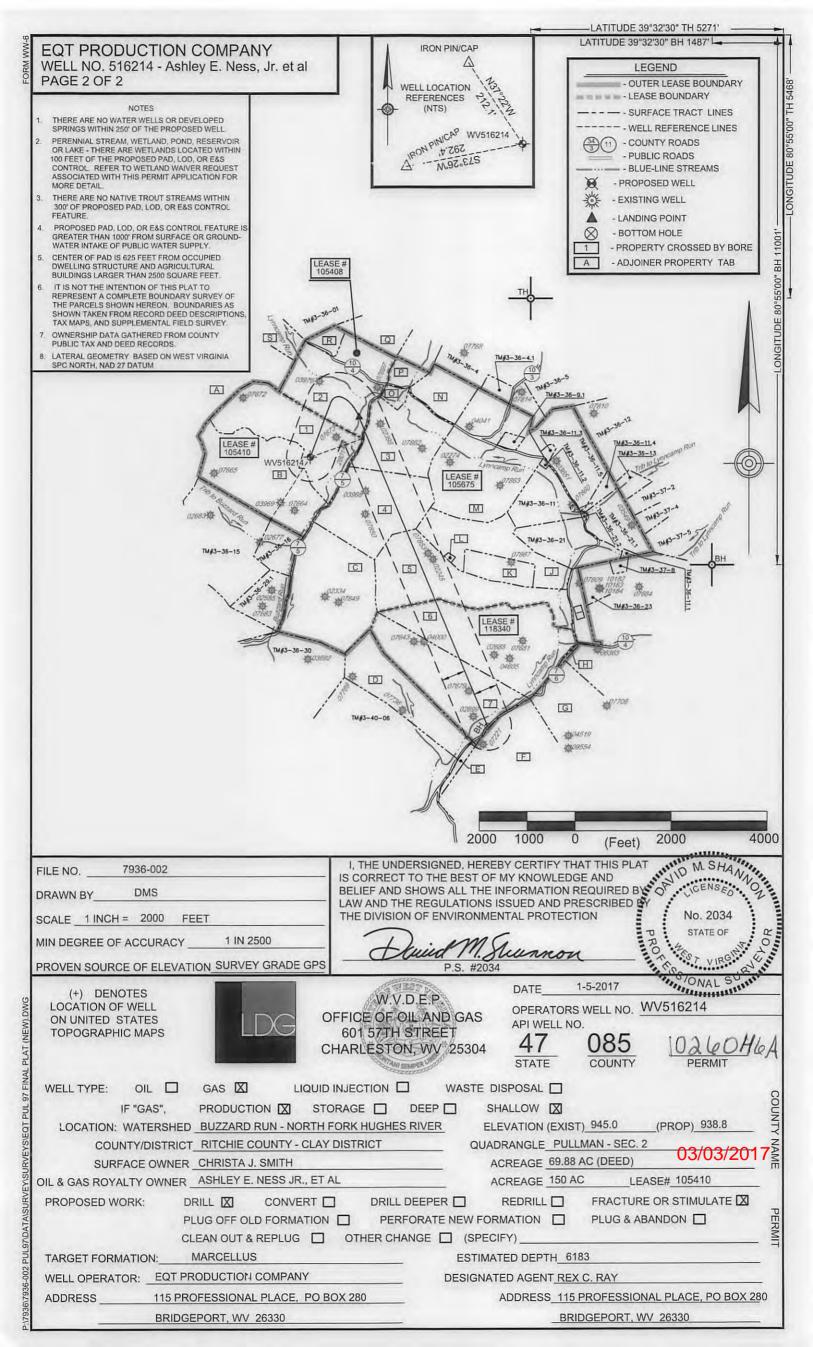
115 PROFESSIONAL PLACE, PO BOX 280

BRIDGEPORT, WV 26330

ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280

BRIDGEPORT, WV 26330

PERMIT



WW-6A1
(5/13)

Operator's	Well	No.	516214	

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

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

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

Lease Name	or
Number	

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

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

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

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

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

Well Operator: EQT Production Company

By: Its:

Permitting Supervisor

Page 1 of 2

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
105408	David A. Dorward, et al (current royalty owner)		••	
	W. C. Broadwater & Kate Broadwater, his wife	W.A. Flanagan		LB29/276
	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
<u>105675</u>	Orma M. Johnson, et al (current royalty owner)		**	
	E. J. Taylor & Laura Taylor, his wife (original lessor)	J. L. Newman		LB30/149
	J. L. Newman	The Philadelphia Company of West Virginia		LB91/265
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company		DB55/362
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		DB 126/473
	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
<u>118340</u>	Richard Barnard, et al (current royalty owner)		**	
	S. L. Hall & E. P. Hall, his wife (original lessor)	Pittsburgh and West Virginia Gas Company		LB45/421
	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

^{**} 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

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 4708510260 NOTICE CERTIFICATION

Date of No	otice Certification:		API No. 47 - 085 -	0
			Operator's Well No.	516214
			Well Pad Name:	PUL97
Notice has	s been given:			
Pursuant to	the provisions in West Virginia Code §	22-6A, the Operator has provided	the required parties with the Ne	tion Comments to
below for th	e tract of land as follows:	and the special state of the st	the required parties with the No	uce Forms listed
State:	WV	UTM NAD 83 Easting:		505,596.94
County:	Ritchie	UTM NAD 83 Northing:		303.396.94
		o in take oo taliing.		
District:	Clav	프로젝트 (1981년 - 1982년 - 1987년 - 1982년 -		4,342,869.73
	Clay	Public Road Access:		
District: Quadrangle: Watershed:	Clay Pullman North Fork of Hughes River	프로젝트 (1981년 - 1982년 - 1987년 - 1982년 -		4,342,869.73

OCT 0 1 2015

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

*PLEASE CHECK ALL THAT APPLY I'NOTICE OF SEISMIC ACTIVITY OF SEISMIC ACTIVITY WAS CONDUCTED INOTICE OF ENTRY FOR PLAT SURVEY OF NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF INTENT TO DRILL OF NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	Pursuant to West Virginia Code § 22-6A, the that the Operator has properly served the re-	ne Operator has attached proof to this Notice Certification	
NOTICE OF SEISMIC ACTIVITY or SEISMIC ACTIVITY WAS CONDUCTED NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED NOTICE OF INTENT TO DRILL OR WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		regarded militate following.	OOG OFFICE USE ONLY
NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	
WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	NOTICE OF ENTRY FOR PLAT SI		☐ RECEIVED
(PLEASE ATTACH)	T NOTICE OF INTENT TO DRILL or	NOTICE OF ENTRY FOR PLAT SURVEY	RECEIVED/NOT REQUIRED.
		WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	T
IV NOTICE OF PLANNED OPERATION ☐ RECEIVED	M NOTICE OF PLANNED OPERATIO	DN	FIRECEIVED
₩ PUBLIC NOTICE	PUBLIC NOTICE		
▼ NOTICE OF APPLICATION	₩ NOTICE OF APPLICATION		

Required Attachments:

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

8.24.22

Certification	of Notice/is hereby given:	
THEREFORE, 6A. I certify the above, to the r signature confi in this Notice C obtaining the in	at as required under West Virginia Co required parties through personal sen irmation. I certify under penalty of law Certification and all attachments, and	have read and understand the notice requirements within West Virginia Code § 22- ode § 22-6A, I have served the attached copies of the Notice Forms, identified vice, by registered mail or by any method of delivery that requires a receipt or w that I have personally examined and am familiar with the information submitted I that based on my inquiry of those individuals immediately responsible for tion is true, accurate and complete. I am aware that there are significant penalties bility of fine and imprisonment.
Well Operator:_	EQT Production Compan	Address: P.O. Box 280
By:	Victoria J. Roark	Bridgeport, WV 26330
Its:	Permitting Supervisor	Facsimile: 304-848-0040
Telephone:	304-848-0076	Email: vroark@eqt.com
		Woulke editonii
	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC PRICE SHES NOTE OF THE SEAL SEAL NOTE OF THE SEAL SEAL Bridgeport, WV 26330 Commission Expires Aug. 24, 2022	Subscribed and sworn before me this day of Notary Publi

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.

My Commission Expires

WW-6A (9-13)

API NO. 47- <u>085</u> - 10260	
OPERATOR WELL NO. 516214	
Well Pad Name: PUL97	

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

Not	ice Time Requirem	ent: notice shall be prov	ded no later than the filing date of permit application.
	e of Notice: 10/1/15 ice of:	_ Date Permit Applica	tion Filed: 10/1/15
V	PERMIT FOR AN WELL WORK		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursu	ant to West Virginia C	ode § 22-6A-10(b)
	PERSONAL	☐ REGISTERED	☑ METHOD OF DELIVERY THAT REQUIRES A
_	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
regissedirithe s sedirithe s social and description more well impo have propo propo propo propo code Code	nent control plan requirface of the tract on and gas leasehold being ribed in the erosion a stor or lessee, in the coal seams; (4) The work, if the surface to a water well, spring the water for consum used well work activities of the sheriff requision of this article to R. § 35-8-5.7.a requirement control of the section (b) of the section of this article to R. § 35-8-5.7.a requirement control of the section (b) of the section of this article to R. § 35-8-5.7.a requirement control of the section o	method of delivery that re uired by section seven of a which the well is or is pro- g developed by the propo- nd sediment control plan sevent the tract of land on a cover of record of the star- ract is to be used for the paract is to take place. (c)(1) I ion hold interests in the lating the contrary, notice to a liquires, in part, that the oper	poundment or pit as required by this article shall deliver, by personal service or by quires a receipt or signature confirmation, copies of the application, the erosion and his article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the ed well work, if the surface tract is to be used for roads or other land disturbance as ubmitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or afface tract or tracts overlying the oil and gas leasehold being developed by the proposed accement, construction, enlargement, alteration, repair, removal or abandonment of any his article; (5) Any surface owner or water purveyor who is known to the applicant to ated within one thousand five hundred feet of the center of the well pad which is used to the tail to animals; and (6) The operator of any natural gas storage field within which the sum of the applicant may serve the documents required upon the person described in the unit to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any ten holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. ator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any divater testing as provided in section 15 of this rule.
☑ A	pplication Notice	☑ WSSP Notice ☑ E&	S Plan Notice
	RFACE OWNER(s		COAL OWNER OR LESSEE
	e: see attached		Name: see attached Address:
Vam	e:		COAL OPERATOR
Tuui	C35		Name:Address:
SU	RFACE OWNER(s) (Road and/or Other Dis	ruroance)
	e: see attached		☑ SURFACE OWNER OF WATER WELL
∖ddr	ess:		AND/OR WATER PURVEYOR(s)
			Name: _see attached
vam vad-	e:		Addicss.
ruar	CSS:		
181	REACE OWNED) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	a. see attached	- /	
			Address:
			*Please attach additional forms if necessary



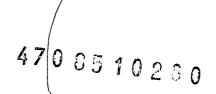


Table 1 - Water Source Identification

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	☐ Landowner Requested
Address: 1977 Lynn Camp Rd Phone #: 304-659-2734 Pennsboro, WV 26415	Sampling Landowner Decline Sampling Unable to Contact
Field Located Date: 3-11-15 Owner home during survey (yes/no): No Coordinates: 1-1 39.242436, -80.936131 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling tab)
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' +	3'
Surface Owner / Occupant: Fouss Farms LLC (Robert) Address: 4200 Grand Central Ave Phone #: 304-483-5528 Vienna, WV 26105	✓ Landowner Requested Sampling □ Landowner Decline Sampling □ Unable to Contact
Field Located Date: 3-11-15 Owner home during survey (yes/no): No Coordinates: 4-2 39.240642, -80.933894 (decimal degrees – NAD 83)	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1st: 3-11-15 2nd:Date Door Hanger Left: _No	as given
permission to locate.	· -
Owner's Signature: Per Phone Conversation 4-1 39.240947, -80.9 4-3 39.238992, -80.9	





City Mark	3-1 2,417'	
Site Number: 3 Distance		
Surface Owner / Occupant: Randall La	mm	∠ Landowner Requested
Address: 2597 Lynn Camp Rd	Phone #: _304-659-3075	Sampling Landowner Decline
Pennsboro, WV 26415		Sampling Unable to Contact
	vner home during survey (yes/no): Yes	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
	69 (decimal degrees - NAD 83)	
Contact Attempts (Date): 1st: 3-9-15	2 nd :Date Door Hanger Left:	
	ty, not in use for drinking water. Water w	ell is outside of
2500'.		
Site Number: 6 Distance Surface Owner / Occupant: Christa & 3		
Pennsboro, WV 26415	Phone #:	 □ Landowner Decline Sampling □ Unable to Contact
Field Located Date:Ow	ner home during survey (yes/no):	(Further contact altempts to be made by EQT's third party
Coordinates: 6-1 39.23665, -80.941642	2 (decimal degrees – NAD 83)	pre-drill sampling lab)
Contact Attempts (Date): 1st: 3-11-15	2 nd :Date Door Hanger Left:	
Comments: Eric Janotha's sister. All s	sources located by direction of Eric. She do	oes not live on
property. Contact Eric.		
	6-2 39.233572, -80.9	933847
Owner's Signature:	6-3 39.231267, -80.9	936358





그렇게 하는 것이 아니다 하는 것이 없었다.		as Well (feet): <u>5-1</u> 765' +	
Surface Owner / Occupant: Mi Address: 19 Davis Ridge Road	chael L. Davis		
Pennsboro, WV 2641:		Phone #: 304-481-5899	☐ Landowner Decline Sampling
Field Located Date: 3-11-15	Owner hon	ne during survey (yes/no): Yes (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: 3-1		Date Door Hanger Left: No	Need
Comments: All water sources w	ere previously	located by our environmental grou	p. All sources
on this property are used by ca	ttle. Mr. Janot	tha had requested that we sample ev	verything.
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 & Virginia Means	✓ Landowner Requested
Address: 2518 Lynn Camp Rd Phone #: 304-659-2783	
Pennsboro, WV 26415	Sampling Unable to Contact
Field Located Date:Owner home during survey (yes/no):	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 7-1 39,239078, -80,928953 (decimal degrees - NAD 83)	,
Contact Attempts (Date): 1st: 3-9-15 2nd: 3-11-15 Date Door Hanger Left:	Yes
Comments: Contacted us at a later date by phone. Has one water well beside by	parn
Owner Signature:	
Site Number:8 Distance from Gas Well (feet): N/A+	
Site Number: 8 Distance from Gas Well (feet): N/A + Surface Owner / Occupant: Faith Cottrill	_
Site Number: 8 Distance from Gas Well (feet): N/A + Surface Owner / Occupant: Faith Cottrill Address: 2782 Lynn Camp Rd Phone #: 304-480-1570	Sampling Landowner Decline
Site Number: 8 Distance from Gas Well (feet): N/A + Surface Owner / Occupant: Faith Cottrill	Sampling Landowner Decline Sampling Unable to Contact
Site Number:8 Distance from Gas Well (feet): N/A + Surface Owner / Occupant: Faith Cottrill Address: _2782 Lynn Camp Rd Phone #: 304-480-1570 Pennsboro, WV 26415 Field Located Date:Owner home during survey (yes/no):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be
Site Number:8 Distance from Gas Well (feet): N/A + Surface Owner / Occupant: Faith Cottrill Address: _2782 Lynn Camp Rd Phone #: 304-480-1570 Pennsboro, WV 26415 Field Located Date:Owner home during survey (yes/no):	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party
Site Number:8	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 Gas Well (feet): N/A + Surface Owner / Occupant: Faith Cottrill Address: 2782 Lynn Camp Rd Phone #: 304-480-1570 Pennsboro, WV 26415	Sampling Landowner Decline Sampling Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)





Site Number: 9 Distance from Gas Well (feet): 9-3 2824' 9	
Surface Owner / Occupant: Brian & Michael Taylor	✓ Landowner Requested
Address: 268 Buzzard Run Rd Phone #: 304-266 Pennsboro, WV 26415	Sampling Landowner Decline Sampling
Field Located Date: 3-9-15 Owner home during survey (yes/no): _ Coordinates: 9-1 39.230461, -80.941572 (decimal degrees – NA	Die-Dill Sampling lab)
Contact Attempts (Date): 1st: 3-9-15 2nd: Date Door Hange Comments: Spring feed Cattle. concerned about direction of laterals ne though his well his outside of radius, he prefers it to be tested.	
Owner Signature: 9-3 39.227711, -80.93 Combine with Eric Janotha Site Number: 10 Distance from Gas Well (feet): 1897'	3386 <u>9-4</u> 39.229511, -80.940694 7067 <u>9-5</u> 39.231919, -80.941675
	+
Surface Owner / Occupant: Suzanne Janotha (Not Living) left to Eric Address: 1873 Buzzard Run Rd Phone #:	
Field Located Date:Owner home during survey (yes/no): Coordinates: 10-1 39.230275, -80.938072 (decimal degrees – NA	Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Contact Attempts (Date): 1 st : Date Door Hanger	
Comments: Now owned by Eric Janotha. See him for Sampling.	Left;
Owner's Signature:	





Site Number:11 Distance from Gas Well (feet):11-1 1402'+	
Surface Owner / Occupant: John & Rose Marie Sudol	✓ Landowner Requested
Address: 2064 Buzzard Run Rd Phone #: 304-659-3945	Sampling Landowner Decline
Pennsboro, WV 26415	Sampling Unable to Contact
Field Located Date: 3-9-15 Owner home during survey (yes/no):	(Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Coordinates: 11-1 39.233803, -80.931675 (decimal degrees - NAD 83)	
Contact Attempts (Date): 1st: 3-9-15 2nd:Date Door Hanger Left:	
Comments: Filtering System. Water goes to cistern (pull sample from here) Francisco	nk Sudol,
brother, will be staying here while she is done until mid June.	
Owner Signature: Kose Sudol 11-2 39.234394, -80.931	614
Site Number: 12 Distance from Gas Well (feet): +	
Site Number:	☐ Landowner Requested Sampling
Site Number:12	☐ Landowner Requested Sampling ☐ Landowner Decline Sampling
Site Number:12	☐ Landowner Requested Sampling ☐ Landowner Decline
Site Number:12	□ Landowner Requested Sampling □ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party
Site Number:12	☐ Landowner Requested Sampling ☐ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Site Number:12	☐ Landowner Requested Sampling ☐ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Site Number:12	☐ Landowner Requested Sampling ☐ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)
Site Number:12	☐ Landowner Requested Sampling ☐ Landowner Decline Sampling ☑ Unable to Contact (Further contact attempts to be made by EQT's third party pre-drill sampling lab)

WW-6A

4708510260

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:

4708510260

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

API NO. 47-085 - 10260 OPERATOR WELL NO. 516214

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

API NO. 47-085 - 10260 OPERATOR WELL NO. 516214

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.

API NO. 47- 085 - 10260 OPERATOR WELL NO. 516214

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.

WW-6A (8-13)

API NO. 47-085 OPERATOR WELL NO. 516214 Well Pad Name: PUL97

Notice is hereby given by:

Well Operator: EQT Production Company Telephone: 304-848-0076

Email: vroark@eqt.com

Address: 115 Professional Place

Bridgeport, WV 26385

Facsimile: 304-848-0040

Oil and Gas Privacy Notice:

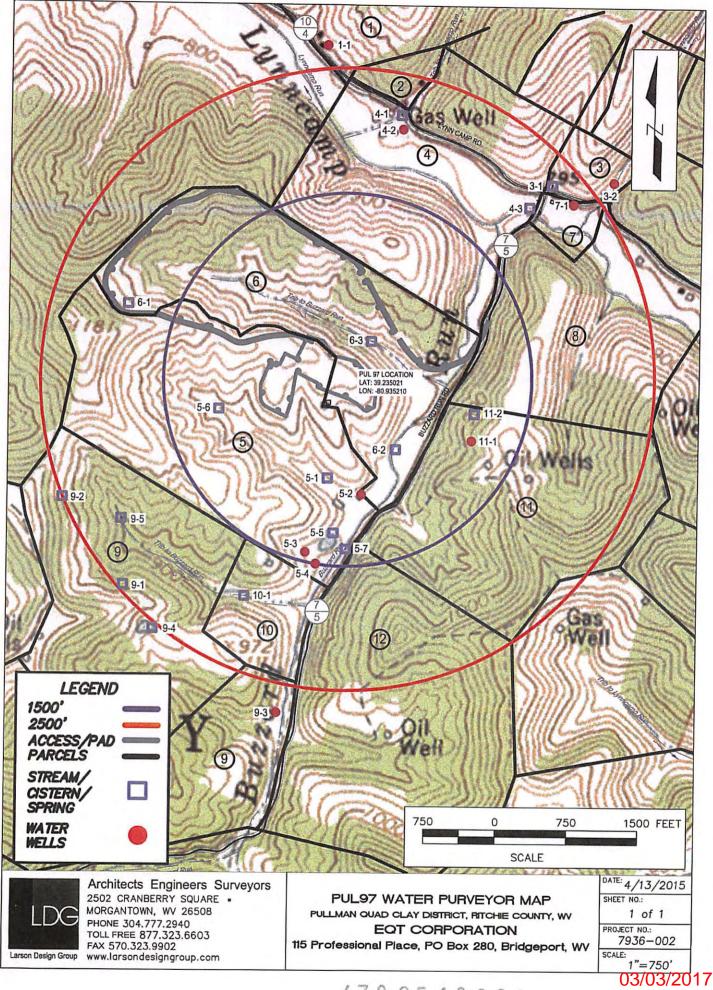
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

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

Subscribed and sworn before methis _ 4 day of

Notary Public

My Commission Expires



WW-6A3 (1/12)

Operator Well No. Lease #105410

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 least SE	FIN (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 § 22-6A-10(
PERSONAL SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
Pursuant to West Virginia Code § 22-6A-10(a), prior to filling a petract to conduct any plat surveys required pursuant to this article, prior to such entry to: (1) The surface owner of such tract; (2) to pursuant to section thirty-six, article six, chapter twenty-two of records. The notice shall include a statement that copies of the section in the section of the	smit application, the operator shall provide notice of planned entry on to the surface. Such notice shall be provided at least seven days but no more than forty-five days any owner or lessee of coal seams beneath such tract that has filed a declaration this code; and (3) any owner of minerals underlying such tract in the county tax tate Eroslon and Sediment Control Manual and the statutes and rules related to oil cretary, which statement shall include contact information, including the address for
Notice is hereby provided to:	·
X SURFACE OWNER(S)	X COAL OWNER OR LESSEE
	Coal Declaration pursuant to §22-6A-10 and
Name: Eric H. & Beth S. Janotha	Name: §22-6-36 Not of Record
1873 Buzzard Run Rd. Address: Pennsboro, WV 26415	Address:
Name Of the LO M	MINERAL OWNER(S)
Name: Christa J. Smith 204 East Myles Avenue	Name:
Address: Pennsboro, WV 26415	A.1.1
Name:	Name:
Address:	Address:
Notice is hereby given:	'Please attach additional forms if necessary
• • • • • • • • • • • • • • • • • • • •	ven that the undersigned well operator is planning entry to conduct a plat survey on
the tract of land as follows:	of the state of the special is planning only to conduct a plan survey of
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
obtained from the Secretary, at the WV Department of Environmen	the statues and rules related to oil and gas exploration and production may be stall Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 atton 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, Bridgeport, WV 26330
Telephone: 304-848-0099	EQT Representative: Kathy Kugel
Facsimile: 304-848-0040	. /
Email: EQTLandEntryNotice@eqt.com	Signature: Kathy Kua

Oli 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 depprivacyofficer@WV.gov.

WW-6A5 (1/12)

4708510260

Operator Well No. 516214

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

Date of No	tice: 10/01/2015 Date Permit Applic			t application.
Delivery m	ethod pursuant to West Virginia Code § 22-6	A-16(c)		
■ CERT	TIFIED MAIL	.ND		
RETU	URN RECEIPT REQUESTED DE	LIVERY		
the planned required to drilling of a damages to	W. Va. Code § 22-6A-16(c), no later than the pt requested or hand delivery, give the surface of operation. The notice required by this subsection (b), section ten of this a horizontal well; and (3) A proposed surface ut the surface affected by oil and gas operations to ices required by this section shall be given to the	wner whose lan ction shall inclus article to a sur- use and compen the extent the d	d will be used for ide: (1) A copy face owner who sation agreement amages are com	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 nt containing an offer of compensation for pensable under article six-b of this chapter
Notice is he (at the addre Name: see at	ereby provided to the SURFACE OWNER(s) ess listed in the records of the sheriff at the time clacked	,		
Address:		Addres	s:	
Pursuant to	ereby given: West Virginia Code § 22-6A-16(c), notice is her n the surface owner's land for the purpose of dri	eby given that the lling a horizonta	I well on the tra	well operator has developed a planned act of land as follows: 505,596.94
County:	Ritchie		Northing:	4,342,869.73
District: Quadrangle:	Ctay	Public Road		St Rt. 74
Watershed:	North Fork of Hughes River	Generally use	ed farm name:	Christa J. Smith
Pursuant to to be provide horizontal wasurface affer information	Shall Include: West Virginia Code § 22-6A-16(c), this notice so ded by W. Va. Code § 22-6A-10(b) to a surface yell; and (3) A proposed surface use and compercated by oil and gas operations to the extent the related to horizontal drilling may be obtained as, located at 601 57th Street, SE, Charleston efault.aspx.	ce owner whose esation agreeme damages are confrom the Secret	e land will be unt containing and ompensable und cary, at the WV	ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Well Operat	Or: EQT Production Company	Address:	115 Professional Pla	ace, P.O. Box 280
Telephone:	304-848-0082	·	Bridgeport, WV 263	30
Email:	vroark@eqt.com	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 deprivacyofficer@wv.gov.

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)

470 85 10 260

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 Charleston, West Virginia 25305-0430 • (304) 558-3505 Governor

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 516214 PUL97H4 516212 PUL97H2 516215 PUL97H5 516213 PUL97H3 516216 PUL97H6

516565 PUL97H7

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 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

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

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		
Operator ID:	306686		
Address: Street	P.O. Box 280		
City:	Bridgeport	State: W	Zip: 26330
Contact Name:	Columbus Michael Jervis	Contact Title:	
Contact Phone:	304-848-0013	Contact Email:	CJervis@eat.com

Section 2 – Engineering / Design Contractor Information

Company Name: Larson Design Group		
Address: Street 2502 Cranberry Squa	те	
City: Morgantown	State: wv	Zip: 26508
Contact Name: Timothy Kinder	Contact Title:	Director of Operations - Energy Group
Contact Phone: 877-323-6603 Ext. 453	Contact Email:	TKinder@larsondesigngroup.com
	Matejczyk, PE	
Professional Engineer Registration Number:	014027	



Section 3 - Impoundment / Pit Information

Type of Structure. Check one	of two cho	ices below:				
☐ Freshwater Impoundr			N W	aste Pit		
Note: Any waste in a pit will make		nit	۰۰ نتا	asie i ii		
	•	Jit.				
	_					
Name of Structure (Company	Name :) _	Flowback Pit				
County: Ritchie			District: _	Clay		
USGS 7.5' Quad Map Name:	Pullman					
Farm Name: Janotha						
Pad Name: PUL 97	Both Josepho					
Surface Owner Name: Eric &		: do at CD 7/5 /D.				
Physical Description of Location intersection of CR 7/5 and CR 7	on: vvesus 4 (Pullman I	Drive)	IZZaro Kun	Road) approx	imately 2.19 mil	es North of the
(Note: Give general location, example			on Dt 22	og on Puffolo C		
Watershed (nearest perennial)			/ UII FAL, ÆZ, #	en un Bunalu C	геек)	
Distance (Drainage Distance)			n: 1,35	Ωff		
	to notices, p	Mailliai etteal	II. <u>-1,00</u>	O 14.		
Location Coordinates (NAD83,	Decimal D	earees (xx.xxx	Y -YY XXX	<u> </u>		
Latitude: 39.235325		itude (Use neg			365	
UTM Coordinates : 15616	662.63	E	•	078.11		N
Access Road Coordinates (jun	ction of sta					_ ''
Latitude: 39.236281		gitude (Use ne	•	n): -80.931	290	
UTM Coordinates : 156	33088.16	E		306.47		N
						- ⁽
Approximate Dimensions						
Length: 189 ft.	_ Width:	134 ft.		Height: _1	4 ft.	
Note: If irregularly shaped, give approx						
Total Capacity – Provide all uni						
Barrels: 35,960	_ Gallons:	1,510,332		Acre-Feet:	4.64	
0		_				-
Capacity with 2' Freeboad Pr			below:			
Barrels: 27,622	_ Gailons:	1,160,116		Acre-Feet:	3.56	
Incised volume:						
Barrels: 34,988	Callana	1,469,325		. . .	4.60	
Darreis. Oriodo	_ Gallons:	1,409,320		Acre-Feet:	4.50	
Net impounded volume: (Total v	volume less	incised volume	.)			
Barrels: 972	Gallons:	41,007	E.)	Acre-Feet:	0.14	
	_ 04110113.			ACIG-FEEL.	0.17	
Anticipated Construction Start [)ate (estima	ation non-hindi	na). Fa	II 2015		
Note: No construction may begi		zuon, non-buidi	···9/·			
	n on Asso c	cioated impoun	idment un	til WVDEP is	sues the drilli	ng permit At least 7
calendar days prior to confirmed inspector of construction start d	d constructi	on start date, n	otify the C	Office of Oil &	Gas, and the	local 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 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 comments concerning this project				



Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment 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. Roank
Title:	Dermitting Supervisor
Signature:	That It
Taken, subscribed and sworn to Notary Public:	before me this, 30 Day of 541 20 15
My commission expires:	8-24-32
Notary Seal:	OFFICIAL SEAL OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Pamela Syles EQT Production PO Box 280 Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022

Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 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

DEP Offic	e Use d	only.	7		
Date Received by Oil & Gas:					
Assigned Impoundment ID#:		1.1	-		

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbis, 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

State: W Zip: 263	
State: W Zin. 263	
State: W 7in: 263	
Olale, 711 200	30
<u> </u>	Contact Title: CJervis@eqt.com

Section 2 – Engineering / Design Contractor Information

Company Name:	Larson Design Grou	р				
Address: Street	2502 Cranberry Squ	are				
City:	Morgantown		State:	w	Zip:	26508
Contact Name:	Timothy Kinder		 Contact	Title:	Director of Ope	rations - Energy Group
Contact Phone:			Contact E	Email:	TKinder@larso	endesigngroup.com
Certifying Professional E		Matejczyk, P	E			
Professional Engineer R	egistration Number:	014027				

470 85 10 260

Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choices below:
☐ Freshwater Impoundment ☑ Waste Pit
Note: Any waste in a pit will make it a waste pit.
Name of Structure (Company Name :) Completion Pit
County: Ritchie District: Clay
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)
Watershed (nearest perennial): Buzzard Run
Distance (Drainage Distance) to nearest perennial stream: 1,390 ft.
Location Coordinates (NAD83, Decimal Degrees (xx.xxxx, -xx.xxxx))
Latitude: 39.234863 Longitude (Use negative sign): -80.937277
UTM Coordinates : 1561402.00 E 270913.97 N
Access Road Coordinates (junction of state highway access)
Latitude: 39.236281 Longitude (Use negative sign): -80.931290
UTM Coordinates : 1563088.16 E 271306.47 N
Approximate Dimensions
Length: 238 ft. Width: 198 ft. Height: 14 ft.
Note: If Irregularly shaped, give approximate dimensions of long axis.
Total Capacity – Provide all units of measure below:
Barrels: 142,485 Gallons: 5,984,371 Acre-Feet: 18.37
Capacity with 2' Freeboad – Provide all units of measure below:
Barrels: 117,700 Gallons: 4,943,417 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."
The state of the s

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		
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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 b	y WV Registered P.E.	Τ

- 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 WVo Bulo \$47.24. If the design of this attention will be a second of the seco
	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.
	Political regulating define with self-equived prior to registering the structure with the Office of Off 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
	mtp://www.dep.wv.gov/vvvucee/ds/Pages/delault.aspx
	The state of the s

Section 7 -	Comments – F	Provide any ac	ditional comm	ents concerning	g this project	



Section 8 - Application Certification

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

Name:	Lietono J. Konk
Title:	Deinthing Superasor
Signature:	The 11
Taken, subscribed and s	worn to before me this, 30 Day of Sept 20 15
	Panla Seffer
My commission expires:	8-24-22
Notary Seal:	STATE OF WEST VIRGINIA STATE OF WEST VIRGINIA WOTARY PUBLIC Pamela Sykes EQT Production PO Box 280 Bridgeport, WV 26330 My Commission Expires Aug. 24, 2022 E **********************************

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>

PROJECT INFORMATION

PROJECT NAME: EQT PUL 97 TAX PARCEL:

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

CHRISTA J. SMITH

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

ERIC & BETH JANOTHA

PID 3-36-7

TOTAL PROPERTY AREA: 79.21 ACRES
TOTAL DISTURBED AREA: 18.83 ACRES IMPACTED FORESTED AREA: 1.93 ACRES

OPERATOR

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

PHONE: (304) 777-2940 MORGANTOWN, WV 26508 2502 CRANBERRY SQUARE

P.O. BOX 280 OPERATOR ID: 306686 EQT PRODUCTION COMPANY

LARSON DESIGN GROUP

WVDEP OOG APPROVED

3/3/2017



ROBER!

REGISTER

MA

TUROUNAL ENGRAPHICAL PROPERTY OF THE PROPERTY

VIST VIRGIT

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

MISS_UTILITY_STATEMENI
EQT WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #143509324, #1435093538, AND #1435093569.

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.

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

West Virginia State Low (Section XIV. Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia.

IT'S THE LAW!

MISS Utility of West Virginia

EQT PUL 97 SITE PLAN EQT PRODUCTION COMPANY



VATION	5	56	4	16	13	11	12	mo
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	LAT 39.235094 LON -80.935101	LAT 39.235112 LON -80.935149	LAT 39.235129 LON -80.935197	LAT 39.235147 LON -80.935245	LAT 39.235165 LON -80.935293	LON -80,935341	NAD 83 LAT & LONG
					OF	PRIO	LDG	GEO

1. THERE ARE TWO WETLANDS WITHIN 100 FEET OF THE WELL PAD LOD.

2. THERE ARE NO PERENNAL STREAMS, LAKES, PONDS, OR RESERVORES WITHIN 100 FEET OF THE WELL PAD LOD.

3. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.

4. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.

5. THERE ARE NO OCCUPIED MELLING STRUCTURES WITHIN 25.5 FEET OF THE CENTER OF THE WELL PAD.

7. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2.500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

LOCATION COORDINATES

ACCESS ROAD ENTRANCE LATITUDE: 39,236018 L N 271307.66 E 156308 39,236018 LONGITUDE: -80,93136 6 E 1563083.29 (WV NORTH NAD -80.931364 (NAD 83) 83)

N 270962.12 E 1561988.38 CENTER OF WELL PAD LATITUDE: 39.235021 39,235021 LONGITUDE: (WV NORTH NAD 83) -80.935210 (NAD 83)

N 271064.14 E 1561441.45 LATITUDE CENTER OF 60,000 BBL TANK 39.235277 LONGITUDE (WV NORTH NAD 83) -80,937146 (NAD 83)

N 270913.97 LATITUDE: CENTER OF 40,000 BBL TANK 39,234863 19,234863 LONGITUDE: -80.937277 E 1561402.00 (WV NORTH NAD 83) (NAD

83)

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

ENVIRONMENTAL NOTES

WITLAND DELINEATIONS WERE PERFORMED BETWEEN DECEMBER 11, 2014

HROUGH JANUARY 29, 2015 BY LARSON DESIGN GROUP TO REVIEW THE

SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE

REGULATORY PURNIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USAGE)

AND/OR THE WEST VIRGINA DEPARTMENT OF ENVIRONMENTAL

PROTECTION (WOEP), THE APRIL 24, 2015 E0T PUL 97 JURISDICTIONAL

STREAMS & WETLANDS MAPS WERE PREPARED BY LASSON DESIGN

GROUP AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. THE

MAPS DO NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL

STRONGLY RECOMMENDED THAT THE AFOREMENTONED ACENOICS BE

CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE

CONSULTED IN AN EFFORT TO ESCRIBED HEREIN. THE DEVELOPER

SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR

STATE REGULATORY ACENOICS PROPERTY DESCRIBED HEREIN. THE DEVELOPER

SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR

STATE REGULATORY ACENOICS PROPERTY DESCRIBED HEREIN. THE DEVELOPER

STATE REGULATORY ACENOICS PROPERTY DESCRIBES OF THE U.S., INCLUDING WETLAND FILLS AND STREAM

A GEOTECHNICAL INVESTIGATION HAS NOT COMPLETED FOR THIS SITE.
CONSECUENTLY. THE DESIGN OF THE SITE IMPROVEMENTS DEPICTED ON
THESE DRAMNICS WAS PREPARED BY LDG MITHOUT DETAILED
GEOTECHNICAL INFORMATION AND LDG DOES NOT GUARANTEE THE
EFFICACY OF THIS DESIGN.

3 RECOMMENDS COMPLETION OF A DETAILED GEOTECHNICAL STEINFROVEMENTS GESTIGATION AND EVALUATION/REDESIGN OF THE SITE IMPROVEMENTS OR TO CONSTRUCTION. THE OWNER ASSIGNAES ALL RISK IN THE USE THESE DRAWINGS TO CONSTRUCTION IMPROVEMENTS ON THIS SITE.

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

EQT Corporation 120 PROFESSIONAL PL BRIDGEPORT, WV 26330 PHONE 304.848.0000

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4

7936-002

COVER SHEET
EOT PUL 97 WELL SITE

Larson Design Group 2502 Cranberry Square Morgantown, WV 26508 PHONE 304,777,2940 TOLL FREE 877,323,6603

FAX 570 323.6603 · www.larsondesigngroup.c

REPLACE PITS WITH A FINAL SITE DESIGN FINAL SITE DESIGN FINAL SITE DESIGN FINAL SITE DESIGN 11/25/15 9/24/2015 9/1/2015 8/31/2015 JWD RAM JWD RAM JWD RAM JWD RAM JWD BMP BY CHK 1 6/B/2015 NO. DATE ISSUE / REVISIONS

arson Design Group

