

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

Tuesday, April 18, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for 515967 47-085-10321-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: 515967

Farm Name: WILSON, JAMES H. & WILMA J.

U.S. WELL NUMBER: 47-085-10321-00-00

Horizontal 6A / New Drill

Date Issued: 4/18/2017

API Number:	

PERMIT CONDITIONS4708510321

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

API	NO. 47-085 -		
	OPERATOR WELL	NO.	515967
	Well Pad Name:	PULSE	

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

1) Well Operator: EQT	Production Co	ompany	306686	Ritchie	Union	Pullman
			Operator ID	County	District	Quadrangle
2) Operator's Well Numb	oer: <u>515967</u>		Well P	ad Name: PUI	_96	
3) Farm Name/Surface O	wner: James H	& Wilma J	Wilson Public Re	oad Access: C	o Rt 7/4	
4) Elevation, current grou	ınd: <u>1182.6</u>	EI	evation, propose	d post-construc	tion: <u>1182</u> .	6
5) Well Type (a) Gas	Χ	_ Oil	Un	derground Stor	age	
Other						
(b)If Gas	Shallow	X	Deep			Method 14.
	Horizontal	×		,		Mechan
6) Existing Pad: Yes or N		•		_		4/12/17
 Proposed Target Form Marcellus, 6376', 54', 2 	• • •	(s), Antic	ipated Thickness	and Expected	Pressure(s):	
8) Proposed Total Vertice	al Depth: 6376	6		47	2	
9) Formation at Total Ve		Marcellus	<u></u>			* •
10) Proposed Total Meas	_	12335				
11) Proposed Horizontal	Leg Length:	5603				
12) Approximate Fresh V			342,368,399,5	556		
13) Method to Determine	Fresh Water D	epths:	From offset well	s		
14) Approximate Saltwat				<u> </u>		
15) Approximate Coal Se	eam Depths: N	one repo	orted			
16) Approximate Depth 1	a Possible Voi	d (coal m	ine, karst, other)	None report	ed	
17) Does Proposed well l directly overlying or adja			ms Yes	1	No <u>x</u>	
(a) If Yes, provide Min	e Info: Name	•				
• •	Depth	:				
	Seam:					
	Owne	r:				

WW-6B	
(04/15)	

API NO. 47- 085 OPERATOR WELL NO. 516957
Well Pad Name: PUL56

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	655	655	589 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2566	2566	1011 ft^3 / CTS
Production	5 1/2	New	P-110	20	12335	12335	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be not, if not set 40' above top perf or 80° inchasion.	
Liners							

MAG 4/12/17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Valures 2014-17	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Vacence 2014-17	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

47000

PACKERS

Kind:		
Sizes:		
Depths Set:		

WW-6B
(10/14)

476°°°

API NO. 47- 085

OPERATOR WELL NO. 515967

Well Pad Name: PULS6

MBG 4/10/17

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

Drill and complete a new horizontal well in the Marcelius Formation. Drill the vertical to an approximate depth of 5330'. 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, friction reducer, blocide, and scale inhibitor), referred to in the industry as a "stickwater" 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 250,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 250,000 pounds of sand per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): No Additional Disturbance
- 22) Area to be disturbed for well pad only, less access road (acres): No Additional Disturbance
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

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

Conductor: Class A no additives Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of coment sturries intermediate (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of coment sturries.

Processor:
Lead (Class A Comoni): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time). .15% SEC-10 (fluid loss). 50.50 POZ (extender). Talk (Class H Cemeral): 0.2% Super CR-1 (Retarder). Lengthens thickening time, .3% Super FL-200 (fluid loss). 2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss). Reduces amount of water lost to formotion, 60 % Colculm Carbonato. Acid solubility.

25) Proposed borehole conditioning procedures:

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

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

^{*}Note: Attach additional sheets as needed.

PUL96H8 Well **EQT Production Pullman Quad** Azimuth 5061 Ritchie County, WV Vertical Section Note: Diagram is not to scale Casing and Cementing Deepest Fresh Water: 556' Base Top Intermediate Production Surface Conductor TVD TVD Туре Formations 17 1/2 12 3/8 8 1/2 Hole Size, In. 26 Conductor 40 5 1/2 Casing Size, OD In. 20 13 3/8 9 5/8 0.351 0.395 Casing Wall Thickness, In. 0.375 0.380 Base Fresh Water 556 12,335 2,566 Depth, MD 40' 655 20# 40# Weight 78.6# 54.5# Surface Casing 655 J-55 A-500 P-110 Grade A-500 New New New New New or Used Base Red Rock 1208 12,640 1378 2,700 3 950 1830 - 1870 Burst (psi) Maxton A/H A / Type 1 A / Type 1 Cement Class A **Blg Lime** 2050 - 2139 1.123 / 2.098 1.19 Cement Yield 1.18 1.19 Big Injun 2139 - 2204 2447 - 2492 500' above top Producing Zone Welr Surface Surface Too of Cement (Planned) TVD Surface Intermediate Casing 2566 Displacement Displacement Displacement Displacement Method Gantz 2662 - 2685 2,350 589 1 011 60 Est. Volume (cu II) Fifty foot 2744 - 2778 Calcium Carbonate, Fluid Loss, Thirty foot 2793 - 2814 Extender, Dispersent, Viscosifier Gordon 2831 - 2891 Calcium Deloamer, POZ, Bonding Agent, Calcium Chloride NA Possible Additives Forth Sand 2951 - 2959 Chloride Retarder, Anti-3102 - 3133 Bayard Sattling/Suspension Agent Warren 3503 - 3549 3613 - 3740 Speechley Balltown A 3951 - 4002 4598 - 4819 Riley 4939 - 4979 KOP@ 5,330 Benson 5218 - 5243 Alexander Sonyea 6099 - 6213 Middlesex 6213 - 6265 6265 - 6313 Genesee Geneseo 6313 - 6340 6340 - 6349 Tully 6349 - 6352 Hamilton 6352 + 6406 Marcellus 12335 MD **Production Casing** Onondaga 6406 Est. TD@ 6,376 TVD Land curve @ 6,376 TVD 12,335 MD 6,732' MD Proposed Well Work: 5.603' Lateral

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

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

Drill the vertical to an approximate depth of 5330'.

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: PUL96

Ritchie County, WV

12/20/16

470050521

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WV Department of Environmental Protection

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04/21/2017

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 PUL96 pad: 515967.

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:

- 1. 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 0527

2. Reporting

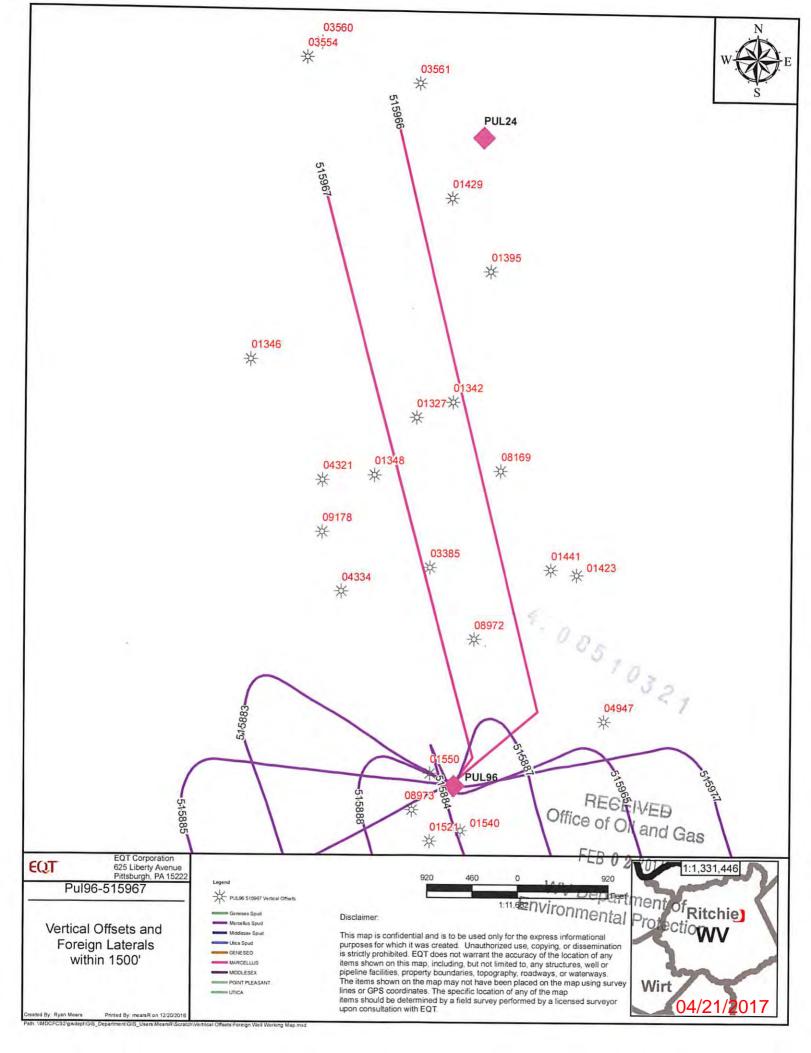
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

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TOT_DEPTH Permit 1879 01346 1879 01348 2039 01348 2039 01345 2039 01345 2036 01341 13550 2036 01341 2575 0434 2529 0434 2529 0434 2520 0134 2520 0
171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1950 171/1951
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UWI	Name	Depth Top	Base Depth
47085049470000		2002	2030
47085049470000	RILEY /SD/	4482	4552
47085049470000		4834	4902
47085049470000	ALEXANDER	5158	5194
47085033850000	BIG LIME	1738	1806
47085033850000	BIG INJUN /SD/	1828	1878
47085033850000	SQUAW /SD/	1878	1905
47085081690000	BIG LIME	2077	2094
47085081690000	BIG INJUN /SD/	2094	2166
47085081690000	WEIR /SD/	2406	2488
47085081690000	WARREN /SD/	3476	3538
47085081690000	RILEY /SD/	4580	4614
47085081690000	RILEY 3	4760	4786
47085081690000	BENSON /SD/	4927	4964
47085081690000	ALEXANDER	5163	5228
47085091780000	BIG LIME	1946	
47085091780000	BIG INJUN	1992	
47085091780000	WEIR /SD/	2351	
47085091780000	WARREN /SD/	3404	
47085091780000	BALLTOWN	3871	
47085091780000	RILEY /SD/	4479	
47085091780000	BENSON /SD/	4850	
47085091780000	ALEXANDER	5090	
47085035540000	BIG LIME	1700	1748
47085035540000	BIG INJUN /SD/	1748	1852
47085089720000	BIG LIME	1846	1922
47085089720000	BIG INJUN	1922	2006
47085089720000	WEIR /SD/	2239	2327
47085089720000	WARREN /SD/	3291	3378
47085089720000	BALLTOWN	3566	4263
47085089720000	RILEY /SD/	4382	4450
47085089720000	BENSON /SD/	4758	4766
47085089720000	ALEXANDER	4990	5060
47085035610000	BIG LIME	1830	1870
47085035610000	BIG INJUN /SD/	1870	1990
47085035600000	BIG LIME	1910	1930
47085035600000	BIG INJUN /SD/	1930	2100
47085043210000	BIG LIME	1721	1785
47085043210000	BIG INJUN /SD/	1785	1870
47085043340000	BIG LIME	2030	2114
47085043340000	BIG INJUN /SD/	2114	2206
47085043340000	WEIR /SD/	2420	2495
47085089730000	BIG LIME	2024	
47085089730000 47085089730000	BIG INJUN	2064	
	WEIR /SD/	2392	
47085089730000	WARREN /SD/	3456	

*Perforated Formations

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47085089730000	SPEECHLEY	3568
47085089730000		3923
47085089730000	RILEY /SD/	4551
47085089730000		4821
47085089730000		4924
47085089730000	ALEXANDER	5158

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west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

1

James Peterson

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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west virginia department of environmental protection

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

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

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

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

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.



4708 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

Office of Oil and Gas
FEB 0 2 2017
WV Department of
Environmental Protection

WW-9 (2/15)

API Number	47 -	085	•
One	rator'	s Well No	515987

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN COMPANIES OF THE PROPERTY OF THE
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN C 5 1 0 5 2 1 Operator Name EQT Production Company OP Code 308686
Watershed (HUC 10) Goose Run of Rockcamp Run Quadrangle Pullman
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No No No No No
If so, please describe anticipated pit waste: Flowback water and residual solids
Will a synthetic liner be used in the pit? Yes No lifso, what ml.? 60 Proposed Disposal Method For Treated Pit Wastes:
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number 0014, 8462, 4037) Reuse (at API Number Various) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: Yes, The dosed loop system will remove dril cuttings from the circling fluid. The drill cultings are then propered for transportation to an effects disposal hours.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud
Additives to be used in drilling medium? See Attached
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? See Attached List
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August I, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor
Subscribed and sworn before me this 35 day of January . 20 17 Discourse Public

EQT Production Co			· · · · · · · · · · · · · · · · · · ·	
Proposed Revegetation Trea			Prevegetation pl	6.5
Lime 3	Tons/acre or to o	correct to pH 6.5		
Fertilizer type Gra	nular 10-20-20			
Fertilizer amount 1	/3	lbs/acre		
Mulch 2		Tons/acre	47000	
		Seed Mixtures	_	
т	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	ibs/acre
KY-31	40	<u> </u>	ard Grass	15
Alsike Clover	5	Alsike	e Clover	5
Annual Rye	15			
Plan Approved by: M	ihme &	all		
Comments: Preses	ed a mulch	- any dis	turbed a	reas per
Comments: Prese	gulations	Maintain	4 upgrade	F-n-5
necessary.	7		. 7	······································
		Annual Communication Communication Communication Communication Communication Communication Communication Commu		
Title: 6:1 4 (-	Fas Josep	ector Date:_	4/12/6	1017

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

47000 mm.

Office of Oil and Gas
FEB 0 2 2017
WV Department of
Environmental Protection

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

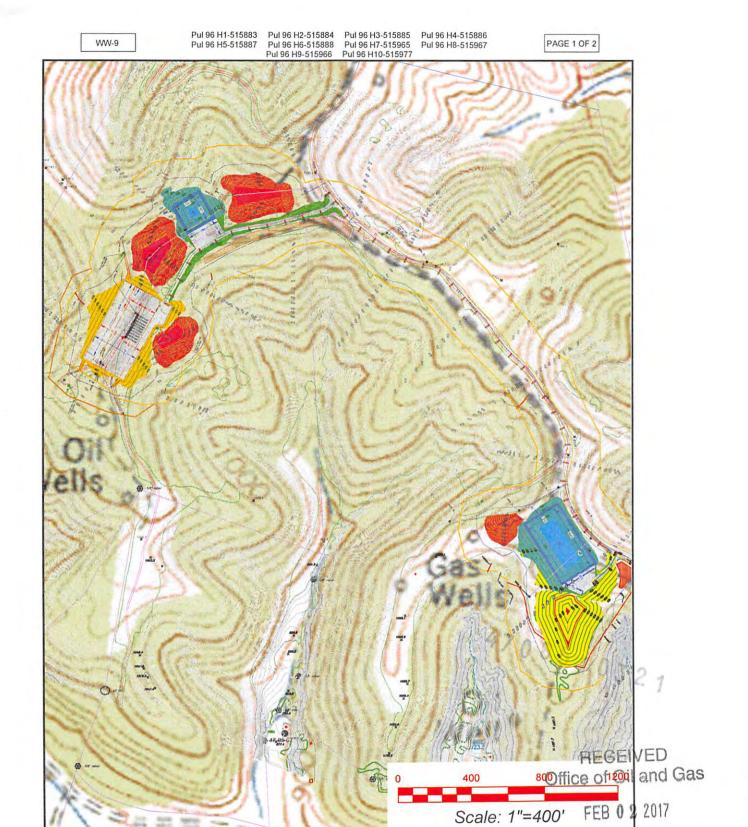
TRIAD ENERGY

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

47005-257



Proposed Disturbance Area Pullman 7.5' USGS QUADRANGLE Projected culvert inventory (for bid purposes only) Well Site Location See Site Plan Proposed Access Road See Site Plan See Site Plan 15" minimum diameter culverts See Site Plan See Site Plan Approximate Total Disturbance 24" minimum diameter culverts 243-14 243-14 Rec Plan Dwayne A. Hall, PS April 11, 2016

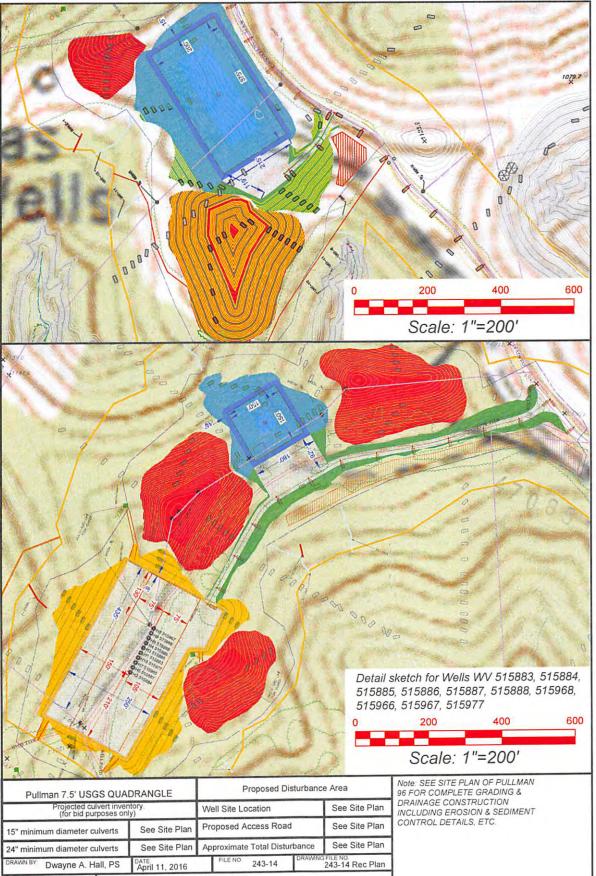
Note: SEE SITE PLAN OF PULLMAN
96 FOR COMPLETE GRADING WV Department of
DRAINAGE CONSTRUCTION
INCLUDING EROSION & SEPWEND IMPORTAGE Protection
CONTROL DETAILS, ETC.





Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610

PAGE 2 OF 2



SURVEYING AND MAPPING SERVICES PERFORMED BY:

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

P.O. Box 438 Birch River, WV 26610



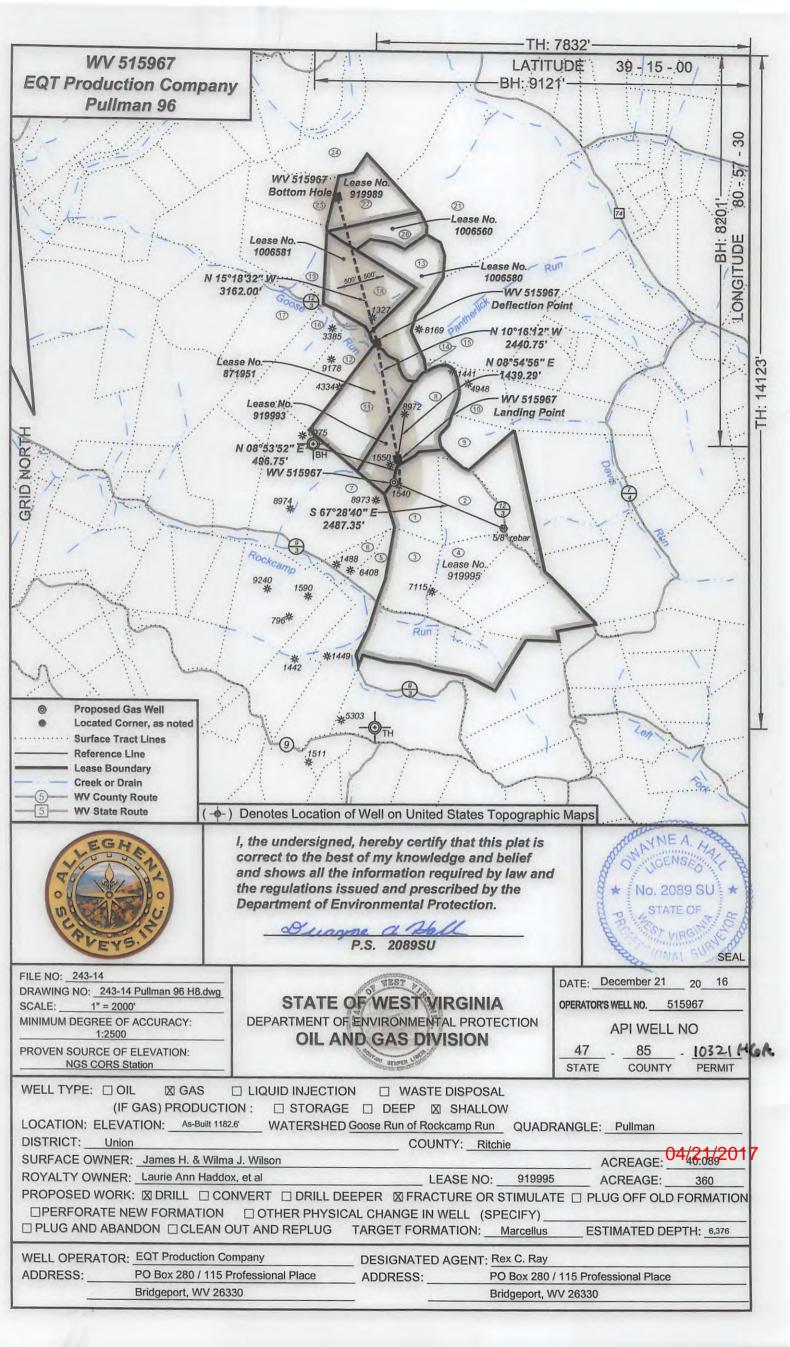


Site Specific Safety Plan

EQT PUL96 Pad

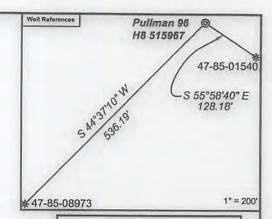
Pullman
Ritchie County, WV

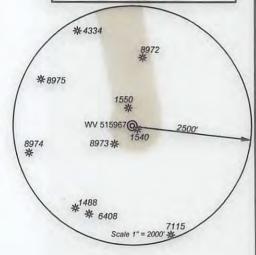
_515967	For Wells:
Permitty per Prille 1-25-17	Date Prepared: November 24, 2015 Michael Hall WV Oil and Gas Inspector Title
Date	Date



WV 515967 EQT Production Company Pullman 96

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	7	8.4	Ritchie	Union	Wilma J. Wilson	40.09
2	7	8.3	Ritchie	Union	James D. Wilson	39.87
3	7	8.5	Ritchie	Union	Robert & Oleta Jane Wilson	37.23
4	7	8.2	Ritchie	Union	Ian David Wilson	30.10
5	7	11.0	Ritchie	Union	Arnold K. Richards (Life)	43.84
6	7	6.0	Ritchie	Union	Eva L. Riffle	14.75
7	7	5.0	Ritchie	Union	Jean W. Moore	134.70
8	7	4.0	Ritchie	Union	James D. Wilson, et al.	63.00
9	39	10.0	Ritchie	Clay	Charlie Ray & Lori Ann Amos	24.64
10	39	10.1	Ritchie	Clay	Pierce Okla & Suzanne Denise Amos	25.36
11	7	3.0	Ritchie	Union	Earl Wilson Jr., et al.	61.00
12	7	2.1	Ritchie	Union	Michael W. Elder	46.20
13	35	39.0	Ritchie	Clay	Chester D. Riddle, et al.	
14	7	17.0	Ritchie	Union	Max D. & Laura B. Dodd	1.00
15	35	40.0	Ritchie	Clay	Max D. & Laura B. Dodd	211.60
16	7	2.0	Ritchie	Union	Michael W. Elder	66.00
17	7	1.0	Ritchie	Union	Randall K. Woods	55.20
18	35	39.1	Ritchie	Clay	Chester D. Riddle, et al.	47.50
19	35	38.0	Ritchie	Clay	James L. Crouse, et al.	50.00
20	35	39.2	Ritchie	Clay	Howard E. Todd	22.50
21	35	31.0	Ritchie	Clay	Max D. & Laura B. Dodd	93.33
22	35	30.0	Ritchie	Clay	Hothem Family Properties LP	38.75
23	35	29.0	Ritchie	Clay	James L. Crouse, et al.	38.50
24	35	14.0	Ritchie	Clay	Earl Wilson Jr., et al.	293.36





Pullman 96	© H8 515967
	NA 51580-6
6	10 515885
@ H5 5	

Lease No.	Name	Acres
919993	lan David Wilson, et al.	63
1006580	Eagle Ridge L.P., et al.	49.5
1006581	Eagle Ridge L.P., et al.	47.5
1006560	E. Howard Todd	22.5
919989	Sandra Kay Reed, et al.	38
871951	Leslie Randall Elder, et al.	61



Proposed Gas Well
Located Corner, as noted
Surface Tract Lines
Reference Line
Lease Boundary
Creek or Drain
WV County Route
WV State Route

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

P.S. 2089SU

AND WAYNE A. MA	DODE
★ No. 2089 SU	**
BO MOT VIRGINIA	40,00
SONAL SUNO	SEAL

DRAWING NO: 243-14 Pullman 96 H8.dwg

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1:2500

PROVEN SOURCE OF ELEVATION:

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

DATE:	Dec	ember 2	21	20_	16
OPERATO	OR'S WI	ELL NO	5159	967	
	Α	PI WE	LLN	0	
47		85		10	321
STAT	E	COUN	ITY	PE	RMIT

NGS CORS Station	*	SERVED OF THE PERSON OF THE PE		STATE	COUNTY	PERMIT
WELL TYPE: □ OIL ☑ GAS	☐ LIQUID INJECTION	☐ WASTE DISPO	SAL			
(IF GAS) PRODUCTION	ON: STORAGE	DEEP SHAL	LOW			
LOCATION: ELEVATION: As-Built 1182	WATERSHED Goos	se Run of Rockcamp R	un QUADR	ANGLE: _	Pullman	
DISTRICT: Union		COUNTY: F	Ritchie		04/5	21/2017
SURFACE OWNER: James H. & Wilma	a J. Wilson			A	CREAGE:	40.089
ROYALTY OWNER: Laurie Ann Haddo	x, et al	LEASE N	O: 919995	A(CREAGE:	360
PROPOSED WORK: ☑ DRILL ☐ CO	NVERT DRILL DEEPE	R MFRACTURE	OR STIMULAT	E PLU	G OFF OLD F	ORMATION
□PERFORATE NEW FORMATION	OTHER PHYSICAL O	CHANGE IN WELL	(SPECIFY)_			
☐ PLUG AND ABANDON ☐ CLEAN C	OUT AND REPLUG TAI	RGET FORMATION:	Marcellus	EST	IMATED DEP	TH: 6,376
WELL OPERATOR: EQT Production Co	ompany D	ESIGNATED AGENT	Rex C. Ray			
ADDRESS: PO Box 280 / 115 F	Professional Place A	DDRESS:	PO Box 280 /	115 Profes	ssional Place	
Bridgeport, WV 263	30		Bridgeport, W	V 26330		

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

42000

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

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Office of Oil and Gas

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 afterns and permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

WV Department of

Well Operator: EQT Production Convention Protection

By: Victoria Roark

Its: Permitting Supervisor

Page 1 of 2

ease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
919995	Laurie Ann Haddox, et al (royalty owner)		**	
	James A. Wilson, et ux (original lessor)	R. W. Richards		LB79/542
	R. W. Richards	J. E. Richards and C. W. Richards		LB80/78
	J. E. Richards and C. W. Richards	Bolyard Oil & Gas, LTD		LB169/136
	Bolyard Oil & Gas, LTD	Sheffield Exploration Co.		LB189/521
	Sheffield Exploration Co.	M. S. Oil Co. (69.513% of working interest) and Applied Mechanics Corp. (30.487% of working interest)		LB208/268
	M. S. Oil Co. (69.513%)	Applied Mechanics, et al		LB222/836
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
919993	lan David Wilson, et al (royalty owner)		**	
	Effie E. Wilson and James Wilson (original lessor)	J.E. Richards		LB79/346
	J.E. Richards	J. E. Richards and C.W. Richards		LB79/407
	J.E. Richards and C.W. Richards	P.O. Burgy, B.S. Marshall, L.B. Burgy & Roilo Riggs		LB81/279
	P.O. Burgy, B.S. Marshall, L.B. Burgy & Rollo Riggs	J. E. Richards and C.W. Richards		LB123/303
	J. E. Richards and C.W. Richards	Applied Mechanics, et al		LB206/8
	Applied Mechanics, et al	FS Limited Partnership		AB274/80
	FS Limited Partnership	EQT Production Co.		AB274/102
<u>871951</u>	Lestie Randall Elder, et al. (current royalty owner)		**	
	Penn Resources, Inc.	Seco Oil & Gas, Inc.		LB138/378
	Seco Oil & Gas, Inc.	Walter C. Crane & Carroll W. Thompson, d/b/a North Hills Investment Company		LB 208/296
	Walter C. Crane & Carroll W. Thompson, d/b/a North Hills Investment Company	Ronald D. Six & Barbara J. Six		LB 208/761
	Ronald D. Six & Barbara J. Six	Apple Corporation		LB 209/763
	Apple Corporation	Trans Energy, Inc.		LB 224/575
	Trans Energy, Inc.	EQT Corporation		see attached
1006580	Eagle Ridge L.P., et al.	EQT Production Company	**	LB285/155
<u>1006581</u>	Eagle Ridge L.P., et al.	EQT Production Company	**	LB285/157
1006560	E. Howard Todd	EQT Production Company	••	LB283/945
919989	Sandra Kay Reed, et al (current royalty owner)	W. H. Mossor Term Energy Corporation	**	
	Barr Wilson, et al (original lessor)	W. H. Mossor		LB 81/120
	W.H. Mossor	Term Energy Corporation		LB132/314
	Term Energy Corporation	Sun Pantry Enterprises, Inc		158/831
	Sun Pantry Enterprises, Inc	Applied Mechanics Corporation, et al		222/830
	Applied Mechanics Corporation, et al	Term Energy Corporation Sun Pantry Enterprises, Inc Applied Mechanics Corporation, et al FS Limited Partnership		274/80
	FS Limited Partnership	EQT Production Company	¥	LB274/102

FEB 0 2 2017

[&]quot;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.

REGEIVED

Office of Oil and Gas**

EXECUTION VERSION

AGREEMENT AND PLAN OF MERGER

by and among

TRANS ENERGY, INC.

EQT CORPORATION

and

WV MERGER SUB, INC.

Dated as of October 24, 2016

REGEIVED Office of Oil and Gas

FEB 0 2 2017

AGREEMENT AND PLAN OF MERGER

This AGREEMENT AND PLAN OF MERGER (this "Agreement"), dated as of October 24, 2016, is by and among Trans Energy, Inc., a Nevada corporation (the "Company"), EQT Corporation, a Pennsylvania corporation ("Parent"), and WV Merger Sub, Inc., a Nevada corporation and a wholly owned subsidiary of Parent ("Purchaser").

RECITALS

WHEREAS, subject to the terms hereof, the respective Boards of Directors of the Company, Parent and Purchaser have approved the acquisition of the Company by Parent on the terms and subject to the conditions set forth in this Agreement;

WHEREAS, Parent shall cause Purchaser to make a tender offer (as it may be amended from time to time as permitted under this Agreement, the "Offer") to purchase all of the outstanding shares of common stock, par value \$0.001 per share, of the Company (the "Company Common Stock"), at a price per Share (as defined in Section 1.1) of \$3.58 (such amount, or any other amount per share paid pursuant to the Offer and this Agreement, the "Offer Price"), net to the stockholders in cash, on the terms and subject to the conditions set forth herein:

WHEREAS, the Company Board (as defined in <u>Section 1.1</u>) has resolved to recommend that the holders of the Shares accept the Offer and tender their Shares pursuant to the Offer and that they vote in favor of the adoption of this Agreement at any meeting of the stockholders of the Company held for such purpose (or any actions of stockholders by written consent in lieu of any such meeting), subject to the terms and conditions of this Agreement;

WHEREAS, the respective Boards of Directors of the Company, Parent and Purchaser have determined that it is advisable and in the best interests of their respective stockholders for Parent to acquire the Company by means of the Offer, followed by a merger of Purchaser with and into the Company (the "Merger"), on the terms and subject to the conditions set forth in this Agreement;

WHEREAS, the respective Boards of Directors of the Company, Parent and Purchaser have approved and declared advisable this Agreement, including all the terms and conditions set forth herein, and all the Transactions (as defined in <u>Section 1.1</u>), including the Offer and the Merger;

WHEREAS, it is a condition to the consummation of the Offer, prior to or contemporaneously with such consummation, Parent or an Affiliate (as defined in Section 1.1) of Parent completes its acquisition of certain properties from Republic Energy Ventures, LLC, Republic Partners VI, LP, Republic Partners VII, LLC, Republic Partners VIII, LLC and Republic Energy Operating, LLC (collectively "Republic") pursuant to that Continue and Sale Agreement dated as of October 24, 2016 (the "Republic Transactions") of Oil and Gas

WHEREAS, simultaneously with the execution and delivery of this Engineering and as a condition and material inducement to Parent's willingness to enter into this Agreement, (i) certain stockholders of the Company have entered into a tended wind experiment, Environmental Protection

IN WITNESS WHEREOF, the Company, Parent and Purchaser have caused this Agreement to be signed by their respective officers thereunto duly authorized as of the date first written above.

4708510321

RECEIVED
Office of Oil and Gas

FEB 0 2 2017

WV Department of Environmental Protection

Signature Page to Agreement and Plan of Merger IN WITNESS WHEREOF, the Company, Parent and Purchaser have caused this Agreement to be signed by their respective officers thereunto duly authorized as of the date first written above.

EQT CORPORATION

TANH

Name: Steven T. Sulltholah

Title: Projekat

WV MERGER SUB, INC.

Name: Stron X. Shift-lah

Title: President

REGEIVED
Office of Oil and Gas

FEB 0 2 2017

Signature Page to Agreement and Plan of Merger



January 3, 2017

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

Re: PUL96H8

Union 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

470851030

REGEIVED
Office of Oil and Gas

FEB 0 2 2017

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

Date of Notice	ce Certification: 1/31/17	API No. 4	API No. 47- 085 -					
	<u> </u>	_	Operator's	s Well No. 51596	57			
			Well Pad	Name: PUL96				
Notice has I Pursuant to th	ne provisions in West Virginia C	ode § 22-6A, the Operator has	provided the re-	quired parties w	rith the Notice Forms lister			
	tract of land as follows:		Easting:	501,225.56				
State: County:	Ritchie	UTM NAD	Northing:	4,340,225.95				
District:	Union	Public Road	_	Co Rt 7/4				
Quadrangle:	Pullman		ed farm name:	James H & Wilma	J Wilson			
Watershed:	Goose Run of Rockcamp Run							
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.								
that the Ope	West Virginia Code § 22-6A, the rator has properly served the recent of the the recent of the	e Operator has attached proof quired parties with the following	to this Notice (Certification	OOG OFFICE USE ONLY			
☐ 1. NO	TICE OF SEISMIC ACTIVITY	or NOTICE NOT REC			RECEIVED/ NOT REQUIRED			
☐ 2. NO	TICE OF ENTRY FOR PLAT S	URVEY or 🔳 NO PLAT SU	JRVEY WAS C	ONDUCTED	RECEIVED			
■ 3. NO	TICE OF INTENT TO DRILL	or NOTICE NOT REC NOTICE OF ENTRY F WAS CONDUCTED O	OR PLAT SUR		RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIV (PLEASE ATTA		CE OWNER				
■ 4. NO	TICE OF PLANNED OPERATI	ON			RECEIVED			
■ 5. PUI	BLIC NOTICE	4700	«az 	i	RECEIVED			
■ 6 NO	TICE OF APPLICATION			·. •2	☐ RECEIVED			

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of White 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 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 that each affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby given:

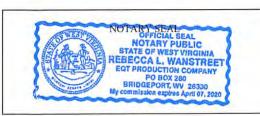
have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method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

 Well Operator:
 EQT Production Company
 Address:
 115 Professional Place PO Box 280

 By:
 Victoria Roark
 Bridgeport WV 26330

 Its:
 Permitting Supervisor
 Facsimile:
 304-848-0041

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



Subscribed and sworn before me this 25 day of January²⁰¹⁷

Public J. Wanstroot Notary Public

My Commission Expires 4-7-2020

Oil and Gas Privacy Notice:

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

470851 -

API NO. 47- 085 -					
OPERATOR WELL NO.	515967				
Well Pad Name: PUL96					

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

Not	ice Time Requirem	ent: notice shall be provided	no later than the filing date of permit application.
	e of Notice: 2/1/2017 ice of:	Date Permit Application	1 Filed: 2/1/2017
V	PERMIT FOR AN WELL WORK		TE OF APPROVAL FOR THE CTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursu	ant to West Virginia Code	§ 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
the soil and described well important properties of the control of	urface of the tract on and gas leasehold being ribed in the erosion at ator or lessee, in the expectation of the surface to work, if the surface to undment or pit as design a water well, spring of the water for consumpted well work activitient (b) of this section (b) of this section of this article to R. § 35-8-5.7.a requ	which the well is or is proposed which the well is or is proposed and sediment control plan submit went the tract of land on which went the tract of land on which went is to be used for the place scribed in section nine of this proposed in section of the surfact is to be used for the place scribed in section nine of this proposed in section of the surfact is to be used for the place scribed in section nine of this proposed in section is the lact to the surfact in the lands, it is to take place. (c)(1) If more than the contrary, notice to a lien have the contrary, notice to a lien have, in part, that the operator	es a receipt or signature confirmation, copies of the application, the erosion and article, and the well plat to each of the following persons: (1) The owners of record of the doubt be located; (2) The owners of record of the surface tract or tracts overlying the well work, if the surface tract is to be used for roads or other land disturbance as nitted pursuant to subsection (c), section seven of this article; (3) The coal owner, he the well proposed to be drilled is located [sic] is known to be underlain by one or ce tract or tracts overlying the oil and gas leasehold being developed by the proposed ment, construction, enlargement, alteration, repair, removal or abandonment of any article; (5) Any surface owner or water purveyor who is known to the applicant to a within one thousand five hundred feet of the center of the well pad which is used to animals; and (6) The operator of any natural gas storage field within which the one than three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any nolder is not notice to a landowner, unless the lien holder is the landowner. W. Va. shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any vater testing as provided in section 15 of this rule.
Ø A	pplication Notice [☑ WSSP Notice ☑ E&S P	lan Notice
	RFACE OWNER(s))	☐ COAL OWNER OR LESSEE
	e: See Attached		Name: See Attached Address:
			Audiess.
Vam			□ COAL OPERATOR
Addr	ess:		Name: Address:
7 511	DEACE OWNED(c)	(Road and/or Other Disturb	Address:
	e: See Attached	(Road and/or Other Disturc	SURFACE OWNER OF WATER WELL
Address:			AND/OR WATER PURVEYOR(s)
			
Vamo	2:		Name:Address:
Addr	ess:		
			OPERATOR OF ANY NATURAL GAS STORAGE FIELD
		(Impoundments or Pits)	Name: HEBEIVED
	See Attached		Name:
			*Please attach additional forms if necessary

Surface Owner

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

lan David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362

Jean W. Moore 1590 Rock Camp Road , Harrisville, WV 26362

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Office of Oil and Gas

FEB 0 2 2017

Surface Owner (Road and/or Other Disturbance)

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

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Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

Ian David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362 \int

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REGEIVED
Office of Oil and Gas

FEB 0 2 2017

Surface Owner (Impoundments or Pits)

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

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James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

Ian David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362

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WV Department of Environmental Protection

Coal Owners

Ritchie Petroleum Corporation P.O. Box 545 Pennsboro, WV 26415-0545

J.F. Deem Oil & Gas 4541 Emerson Avenue Parkersburg, WV 26104-1213

Nancy C. Ruth, Trustee **Cottrill Family Trust** 328 E. Spring Street Marietta, OH 45750-2438

Jay A. Cottrill, Trustee **Cottrill Family Trust** 328 E. Spring Street Marietta, OH 45750-2438

Joseph D. Cottrill, Trustee **Cottrill Family Trust** 1748 Mills Ave Cincinnati, OH 45212-2826

Christopher Cottrill, Trustee **Cottrill Family Trust** 1108 E. 2700 S Apt 14 Salt Lake City, UT 84106

Theresa Ann Wilson 1026 King Street Lancaster, OH 43130

Leslie Randall Elder 1432 Wedgewood Drive Anaheim, CA 92801

James Russell Clovis 19801 Eagle Nest Rd. Cutler Bay, FL 33157

Claudia G. Flder 2119 Tremont Avenue Simi Valley, CA 93063

Richard Wesley Elder 1931 Whitehall Court Simi Valley, CA 93065

Geneva E. Snodgrass 510 Harrisoin St. Harrisville, WV 26362

William Harold Moore 3307 Smith St. Parkersburg, WV 26104

Pamela Donohoe 524 SE 42nd Street Ocala, FL 34480

Carol Robinson 524 SE 42nd Street Ocala, FL 34480

Deborah Lesh 524 SE 42nd Street Ocala, FL 34480

Earl Wilson Jr. 10593 Pullman Rd. Pennsboro, WV 26415

Annabel Wilson Day 4101 County Rd 282 Auxvasse, MO 65231 47005:0001

Julia Staggers

3052 Valley Avenue #100 Winchester, VA 22601

Sandra Staggers 1604 Rose Hill Drive Charlottesville, VA 22903

BEGEIVED Office of Oil and Gas

Susan Cafferty 3855 105th Street SE

Kandiyohi, MN 56251

FEB 0 2 2017

WV Department of **Environmental Protection** Mira White 3244 Homerood Ave North Port, FL 34286

lan David Wilson 1025 E. South Street Harrisville, WV 26362

James Douglas Wilson 214 S. Church Street Harrisville, WV 26362

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

Robert Brian Wilson 665 Nicolette Rd. Parkersburg, WV 26104



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Office of Oil and Gas

FEB 0 2 2017

WV Department of Environmental Protection

04/21/2017

API NO. 47- 085

OPERATOR WELL NO. 515967

Well Pad Name: PUL96

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

OPERATOR WELL NO. 515967

Well Pad Name: PUL96

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

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Office of Oil and Gas

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

WW-6A (8-13)

API NO. 47- 085 OPERATOR WELL NO. 515967
Well Pad Name: PUL96

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.

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Office of Oil and Gas

FEB 0 2 2017

WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47-085 OPERATOR WELL NO. 515967 Well Pad Name: PUL96

Notice is hereby given by:

Well Operator: EQT Production Company

Telephone: 304-848-0076

Email: vroark@eqt.com

Address: 115 Professional Place PO Box 280

Bridgeport WV 26330

Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

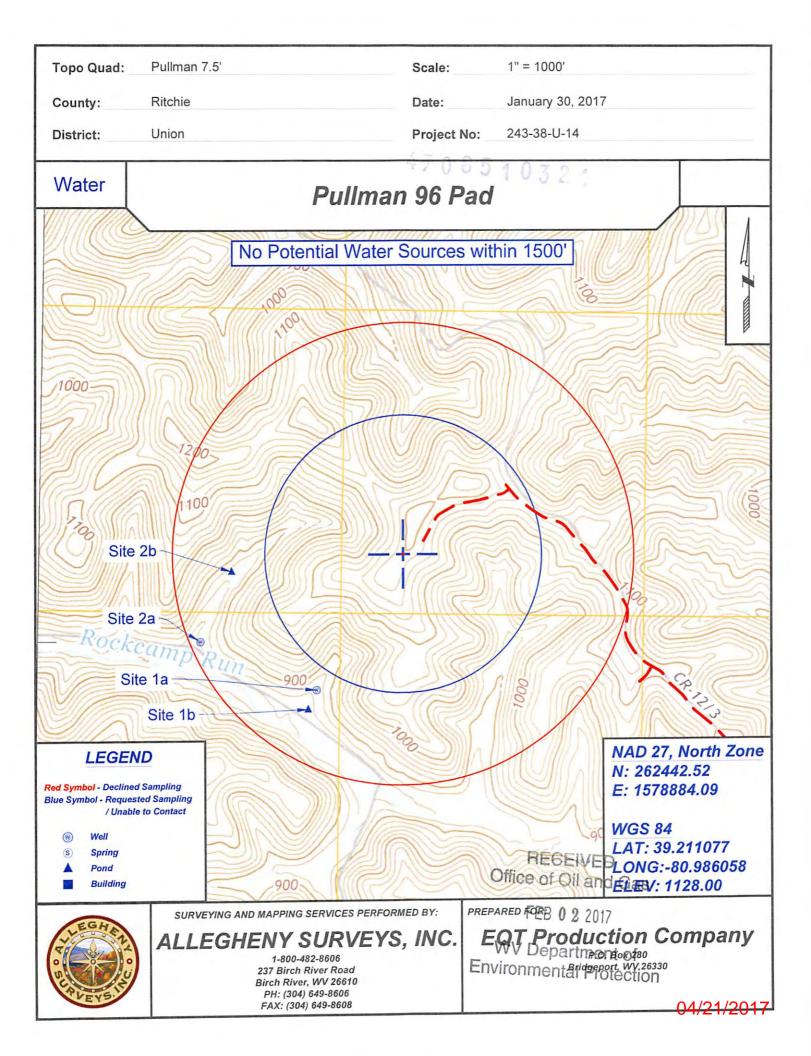
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory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

Subscribed and sworn before me this 25 day of January 2017

My Commission Expires

47085101

Office of Oil and Gas FEB 0 2 2017 WV Department of Environmental Protection



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Notic	Requirement: Notice shall be provided at e: 12/28/2016 Date Per	mit Application Filed: 01/07/2017	
Delivery met	hod pursuant to West Virginia Code § 2	2-6A-16(b)	200.0
☐ HAND	CERTIFIED MAIL		~
DELIVE		UESTED	
receipt reques drilling a hor of this subsection ma	sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided	er notice of its intent to enter upon t pursuant to subsection (a), section to to the surface owner: <i>Provided, how</i> er. The notice, if required, shall inc	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is he	reby provided to the SURFACE OW	NER(s):	
Name: See atta	ched	Name:	
Address:		Address:	
the surface ov State:	where s land for the purpose of drilling a hore www. Ritchie	rizontal well on the tract of land as formula. — UTM NAD 83 Easting: Northing:	well operator has an intent to enter upon bllows: 501,225.56 4,340,225.95
County:		Public Road Access:	Co Rt 7/4
District: Quadrangle:	Union Pullman	Generally used farm name:	James H & Wilma J Wilson
Watershed:	Goose Run of Rockcamp Run	Generally used turn manner	
Pursuant to V facsimile nur	ober and electronic mail address of the o	perator and the operator's authorize Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:		
	r: EQT Production Company	Authorized Representative:	Victoria Roark
Address:	115 Professional Place PO Box 280	Address:	115 Professional Place PO Box 280
Bridgeport WV 2	6330	Bridgeport WV 26330	
Telephone:	304-848-0076	Telephone:	304-848-0076
Email:	vroark@eqt.com	Email:	vroark@eqt.com
Facsimile:	304-848-0041	Facsimile:	304-848-0041
The Office of	personal information may be disclosed to	mation, such as name, address and to other State agencies or third partic frements, including Freedom of In	Office of Oil and Gas elephone number, as part of our regulatory es in the normal course of business or as formation Act requests. Our office will

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

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. Environmental Protection

Surface Owner

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

lan David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362

Jean W. Moore 1590 Rock Camp Road Harrisville, WV 26362 47.000 + p.p.

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WV Department of Environmental Protection

Surface Owner (Road and/or Other Disturbance)

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

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lan David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362

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Office of Oil and Gas

FEB 0 2 2017

WV Department of Environmental Protoction 21/2017

Surface Owner (Impoundments or Pits)

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

Ian David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362



Operator Well No. 515967

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

Date of Notic	ce: 2 1 17 Date Permi			
Delivery met	thod pursuant to West Virginia Code	e § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the soperation. The notice required by this provided by subsection (b), section to horizontal well; and (3) A proposed some surface affected by oil and gas operation.	urface owner whose land is subsection shall include on of this article to a surfacturface use and compensations to the extent the daren to the surface owner at NER(s)	will be used for e: (1) A copy ce owner whose ation agreement mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address Name: See Atta		Name: S	ee Attached	
Address:	eby given:	Address:		well operator has developed a planned
Address:	eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo	Address:	e undersigned well on the tra	well operator has developed a planned act of land as follows: 501,225.56 4,340,225.95
Address:	eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo	Address: ce is hereby given that the se of drilling a horizontal	e undersigned well on the tra Beasting: Northing:	oct of land as follows: 501,225.56
Notice is her Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo	Address: ce is hereby given that the se of drilling a horizontal UTM NAD 83	e undersigned well on the tra Basting: Northing: Access: d farm name:	tot of land as follows: 501,225.56 4,340,225.95 Co Rt 7/4 James H & Wilma J Wilson
Address:	eby given: Vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo WV Ritchie Union	Address: ce is hereby given that the se of drilling a horizontal UTM NAD 83 Public Road A	e undersigned well on the tra Basting: Northing: Access: d farm name:	tot of land as follows: 501,225.56 4,340,225.95 Co Rt 7/4 James H & Wilma J Wilson
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Woto be provide horizontal we surface affectinformation to the provide horizontal we surface affecting the provide horizontal we surface af	eby given: Vest Virginia Code § 22-6A-16(c), notifies urface owner's land for the purpo WV Ritchie Union Pullman Goose Run of Rockcamp Run Shall Include: Vest Virginia Code § 22-6A-16(c), this led by W. Va. Code § 22-6A-10(b) to lell; and (3) A proposed surface use and ted by oil and gas operations to the excellated to horizontal drilling may be collocated at 601 57th Street, SE, Co.	Address: Address: Ce is hereby given that the se of drilling a horizontal UTM NAD 83 Public Road A Generally used s notice shall include: (1) a surface owner whose d compensation agreement the damages are consistent the damages are consistent the Secreta	e undersigned well on the tra B Easting: Northing: Access: d farm name: A copy of this land will be at containing armpensable underly, at the WV	501,225.56 4,340,225.95 Co Rt 7/4
Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information theadquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), notifies surface owner's land for the purpo wv Ritchie Union Pullman Goose Run of Rockcamp Run Shall Include: Vest Virginia Code § 22-6A-16(c), this led by W. Va. Code § 22-6A-10(b) to lell; and (3) A proposed surface use and ted by oil and gas operations to the excelled to horizontal drilling may be collocated at 601 57th Street, SE, Cofault.aspx.	Address: Address: Ce is hereby given that the se of drilling a horizontal UTM NAD 83 Public Road A Generally used s notice shall include: (1) a surface owner whose d compensation agreement the damages are consistent the damages are consistent the Secreta	e undersigned well on the tra B Easting: Northing: Access: d farm name: A copy of this land will be at containing armpensable underly, at the WV	tet of land as follows: 501,225.56 4,340,225.95 Co Rt 7/4 James H & Wilma J Wilson code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
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Oil and Gas Privacy Notice:

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

Surface Owner

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

Ian David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362

Jean W. Moore 1590 Rock Camp Road Harrisville, WV 26362

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REGEIVED
Office of Oil and Gas

FEB 0 2 2017

WV Department of Environmental Protection 04/21/2017

Surface Owner (Road and/or Other Disturbance)

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

lan David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362



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FEB 0 2 2017

WV Department of Environmental Protection

04/21/2017

Surface Owner (Impoundments or Pits)

Wilma J. Wilson 214 N. Church St. Harrisville, WV 26362

James Douglas Wilson 214 N. Church Street Harrisville, WV 26362

Robert Brian Wilson 665 Nicolette, Rd. Parkersburg, WV 26104

James Bradley Wilson 665 Nicolette Rd. Parkersburg, WV 26104

lan David Wilson 4850 Pullman Road Harrisville, WV 26362

David R. Wilson and Judy Wilson 42 School Street Harrisville, WV 26362

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Office of Oil and Gas

FEB 0 2 2017

WV Department of Environmental Protected 1/2017



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Reissued December 23, 2016

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 96 Pad Site, Ritchie County

 515883 PUL96H1
 515884 PUL96H2
 515885 PUL96H3

 515886 PUL96H4
 515887 PUL96H5
 515888 PUL96H6

 515965 PUL96H7
 515967 PUL96H8
 515966 PUL96H9

515977 PUL96H10

Nick Bumgardner

CH, OM, D-3, File

EQT Production Company

Dear Mr. Martin.

Cc:

This well site will be accessed from Permit #03-2015-0122 applied for by EQT Production Company for access to the State Road. The well site is located off of Ritchie County Route 12/3 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

> REGEIVED Office of Oil and Gas

> > FEB 0 2 2017

WV Department of Environmental Protection

04/21/2017

Anticipated Frac Additives Chemical Names and CAS numbers

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

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FEB 0 2 2017

WV Department of Environmental Protection 04/21/2017





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

Estable	DEP	Office Use only	9,915
Date Rec	eived by Oil & G	as:	K-19-17
Assigned	Impoundment I	1#085-WPA 0	7096

Permit Associated Impoundment / Pit Registration

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

Section 1 - Operator Information

EQT Production Company		
306686		
115 Professional Place		VICTORE
Bridgeport	State: WV	Zip: 26330
Ron Furby	Contact Title:	Sr. Mgr. Water Operations
412-395-7052	Contact Email:	rfurby@eqt.com
	306686 115 Professional Place Bridgeport Ron Furby	306686 115 Professional Place Bridgeport State: WV Ron Furby Contact Title:

Section 2 - Engineering / Design Contractor Information

Company Name:	Hornor Brothers	Engineers				
Address: Street						
City:	Clarksburg		State:	WV	Zip:	26302
Contact Name:	Thomas D. Corat	hers	Contact	Title:	PE, PS	
Contact Phone:	304-624-6445		Contact E	mail:	tom@hbe19	02.com
Certifying Professional E		nas D. Corathers				
Professional Engineer R	egistration Numb	er: 14161				

REGEIVED
Office of Oil and Gas
FEB 0 2 2017 Page 1 of 4

WV Department of Environmental Proter 04/21/2017



Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of Freshwater Impoundme		V Wests Di	
· I			
Note: Any waste in a pit will make it	a waste pit.		
Name of Structure (Company Na	me:) EQT-PUL 96	Flowback Pit	
County: Ritchie		District: Clay and Uni	on
USGS 7.5' Quad Map Name: _I	PULLMAN		
Farm Name:			
Pad Name: PUL 96	······································		
		James Douglas Wilson	
Physical Description of Location:	From Pullman, WV, tr	avel northwest on County I	Rte 9 for 1.55 mi. turn onto Co. Rte 7/4
travel North 0.7 mi. continue North o			
(Note: Give general location, example: 2 a		VV on Rt. 22, left on Buffalo C	Creek)
Watershed (nearest perennial):	Goose Run		
Distance (Drainage Distance) to r	nearest perennial stre	am: approximately 140	00 feet
Lastin Ossalisata (MADOS D			
Location Coordinates (NAD83, De Latitude: 39.212855			750
UTM Coordinates: 1644733	Longitude (Use no		
Access Road Coordinates (junction			N N
Latitude: 39.213031	Longitude (Use r	•	2046
	201911442 (USE 1 12.686969	E 14240186.9673	F.4
			N N
Approximate Dimensions			
	Width: 150'	Height:	17'
Note: If irregularly shaped, give approxima	te dimensions of long axis.		
Total Capacity - Provide all units	of measure below:		
Barrels: 24,969	Gallons: 1,048,780	Acre-Feet:	3.219
		· · · · · · · · · · · · · · · · · · ·	
Capacity with 2' Freeboad - Provide	de all units of measur	e below:	
Barrels: 32,368 (Gallons: 1,359,550	Acre-Feet:	4.172
Incised volume:			
Barrels: 13,608	Gailons: <u>571,585</u>	Acre-Feet:	1.754
Net impounded volume: (Total volume:		-	4.405
Barrels: 11,088	Gallons: 477,195	Acre-Feet:	1.465
Authorized Construction Class D.	- Anakimaki	41	
Anticipated Construction Start Date Note: No construction may begin of	- AII lucus		ssues the drilling permit. At least 7
calendar days prior to confirmed co	onstruction start date,	notify the Office of Oil 8	& Gas, and the legal QiLand Gas
inempeter of construction start data	Use form IMP-2 "N	otification of Impoundm	ent / Pit Construction EIVED

Office of Oil and Gas FEB 0 22到7 of 4



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:
PUL 96 H1 515883 PUL 96 H2 515884	
PUL 95 H3 515885 PUL 96 H4 515886	
PUL 96 H5 515887 PUL 96 H6 515888	
PUL 96 H7 515968 PUL 96 H8 515966	
PUL 96 H9 515967	
PUL 95 H10 515977	
Section 5 - Required Information	n Checklist To Register Permit Associated
	ne following information and plans with application.
Engineered Construction Plans, ce	
Erosion and Sediment Control Plan	•
Reclamation Plan, certified by WV	•
defined as a dam, under W.Va Rule all permits regulating dams will be r	en evaluated by the applicant to determine it does NOT qualify to be \$47-34. If the design of this structure qualifies it to be defined as a dam, required prior to registering the structure with the Office of Oil and Gas. P, Div. Of Water and Waste, is available for review at:
	any additional comments concerning this project
	HEGEIVED

Office of Oil and Gas
FEB 0 2 2017

WV Department of Environme 04/24/2017



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:	Dermitting Supervisor
Signature:	Wit fir
Taken, subscribed and s Notary Public:	Janla lyse
My commission expires:	8.24.22
Notary Seal:	OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Pamelo Sylas EQT Production POT Production 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>

MEDEIVED
Office of Oll and Gas
FEB 0 2 2017

WV Department of Environment Of Q#/21/2017

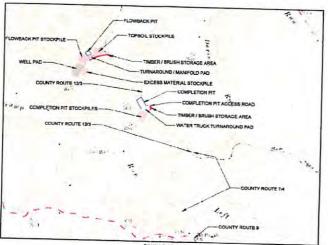
FLOODPLAIN CONDITIONS DO SITE CONSTRUCTOR ACTIVITIES TAKE PLACE IN FLOCOPLAIN: PERMIT NEEDED FROM COUNTY FLOODPLAIN COCRDINATOR NO HFC.RAS STUDY COMPLETED NA FLOCOPLAIN SHOWN ON DRAWINGS. N/A FIRM MAP NUMBER(S) FOR SITE ACREAGES OF CONSTRUCTION IN FLOODPLAIN:

NO WETLANDS OR STREAMS ARE IMPACTED

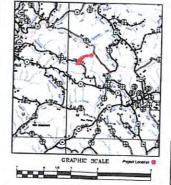
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ITEM DESCRIPTION	DESIGN QTY	UNIT	ASSUILT OF
Clearing and Grubbing	28.59	AC	21.93
24" SJt Sox	6,770	TL.	6,794
Straw Wattle	6.080	LF	3,559
Access Roads, Well Pad, & WITA's 5" Minus Crusher Run Aggregate (8")	4.857	0	4,571
Access Roads, Well Pad, & WTTA's 15" Minus Crushe: Run Aggregate (2")	1.215	CY	1.143
:5" Dia HDPF Crilvert/ P.p.e	241	LE	110
.8" Dia. HDPt Culvert/ P pe	0	LF	0
Prosion Control Matting	41,390	CV.	N/A
Access Roads, Well Pad, & WITA's Geotestile Fabric (Terra "ex HPG-37)	6508	SY	5.940
Fristing Fence Replacement/ Selection	0	U	N/A
Soles			
Quantities are based upon comparisons of design data to asbuilt field survey	ed or scanned cat	and do n	of secoust
for overlap, actual truck volumes or tonnage as required for proper installati	of or waste		TI BULLDU II

PUL 96 AS BUILT COVER SHEET / LOCATION MAP



	CATIONS D 83	
	LATITUDE	LCNG/TUDE
Segmenty of Completion PS Access Road	30 207607	-82 976449
Certier of Completen Pd	39 307942	-80 977596
Beginning of Yest Flag Access Road	39.213806	-80 941707
Certai of Flowback Pf	20 212657	-81 984764
Covery of West Part	JW 21 1064	-80 935016



WELL LEGEND

H8 515967 - LAT: 39.211306 / LONG:-80.985804 H9 515966 - LAT: 39.211269 / LONG:-80.985829 H6 515888 - LAT: 39 211233 / LONG:-80.985853 (API# 47-085-10218) H4 515886 - LAT. 39 211196 / LONG:-80.985878 (API# 47-085-10217) H3 515885 - LAT: 39 211160 / LONG:-80.985902 (API# 47-085-10220) H1 515883 - LAT: 39.211123 / LONG:-80.985927 (API# 47-085-10219) H10 515977 - LAT: 39.211087 / LONG:-80.985951 (API# 47-085-10210) H7 515965 - LAT: 39.211050 / LONG:-80.985976 (API# 47-085-10209) H5 515887 - LAT: 39.211014 / LONG:-80.986000 (API# 47-085-10211) H2 515884 - LAT: 39.210977 / LONG:-80 986025 (API# 47-085-10207)

MISS Linky of West Virginia 1-800-245-1818 1-800-245-1818
West Virginia Shate Law
(Socolo XIV: Chepler 24-C)
Requires that you call his bushed
days before you dg in the state i
West Virginia
IT'S THE LAW! Call before you di

SHEET INDEX
COVER SHEET / LOCATION MAP AS-BUILT GRADING: AS-BUILT DOUTES IMPROVEMENTS PROFILE AS-BUILT MAIN ACCESS & COMPLETION PIT ROAD PROFILE

Surveyor & Engineer

	Onice	DI OII and
DATE	REVISIONS	Date: 10/28/2015
MUI	ADD AR NUMBERS, UPDATE HE & 119	SEALD NOA 2016
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_	WVT	Pharman
	Cincinn	Tops 1 of 11
		The Color of the C

237 Sirch

Engineers

CLAY & UNION DISTRICTS - RITCHIE CO

WVDEP OOG ACCEPTED AS-BUILT 7-26-2016



AS BULL COVER SHEET
PUL 96
WELL PAD SITE
GLAY & UNION BISTRICTS
BITCHIE COURSE WE

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FLOODPLAIR	OND	ITIONS	;
DO BITE CONSTRUCTION ACTIVITIES TAKE PLACE INTLINCOPLAN			140
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ACREAGES OF CONSTRUCTION IN	LOCOPLAN	HA	

NO WETLANDS OR STREAMS ARE IMPACTED

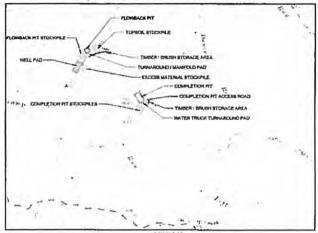
PROPOSED WELL LEGEND

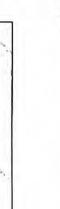
H9 515967 - LAT 39.211306 / LONG -80 985804 515966 - LAT 39 211269 / LONG:-80.985829 H8 515888 - LAT 39.211233 / LONG:-80.985853 H4 515886 - LAT 39 211196 / LONG-80 985878 H3 515885 - LAT 39 211160 / LONG:-80 985902 HI 515883 LAT 39 211123 / LONG:-80 985927 H10 515977 - LAT 39 211087 / LONG -80 985951 H7 515968 - LAT 39 211050 / LONG -80 985976 H5 515887 - LAT 39 211014 / LONG -80 986000 HZ 515884 - LAT 39 210977 / LONG -80 986025

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



PUL 96 FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS EQT PRODUCTION COMPANY**







APPROVED

WYDEP OOG

201 4/21/2015

SHEET INDEX

COVER BEET LOCATION MAP

DATE





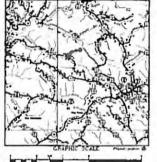
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EQT

THE RET MENT PRINCIPLE TEN COMPONENT OF

WELL PAD SITE

COVER RECEITION TO MERCEITION OF THE PROPERTY REVISIONS Der 1-15-20-15 Scale NA 4-15-5



Thomas D Commun PE PS-304-624-8445 Omcs

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