



west virginia department of environmental protection

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

Tuesday, October 25, 2016
WELL WORK PERMIT
Horizontal 6A / Horizontal 6A Well - 1

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

Re: Permit approval for 516600
47-095-02371-00-00

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: 516600
Farm Name: PETER, DONNA J.
U.S. WELL NUMBER: 47-095-02371-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: 10/25/2016

Promoting a healthy environment.

10/28/2016

PERMIT CONDITIONS 4700502379

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. 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.
8. 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.
9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

10/28/2016

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WW-6B
(04/15)

API NO. 47-95
OPERATOR WELL NO. 516600
Well Pad Name: WEU4

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

1) Well Operator: EQT Production Company 306686 Tyler Centerville West Union
Operator ID County District Quadrangle

2) Operator's Well Number: 516600 Well Pad Name: WEU4

3) Farm Name/Surface Owner: Donna J. Peter Public Road Access: WV-18

4) Elevation, current ground: 1079 Elevation, proposed post-construction: 1079

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6680', 54', 2747 PSI, Top of Marcellus 6649

*JmH
6/7/16*

8) Proposed Total Vertical Depth: 6680

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16406

11) Proposed Horizontal Leg Length: 8122

12) Approximate Fresh Water Strata Depths: 132,175,186,204

13) Method to Determine Fresh Water Depths: By Offset wells

14) Approximate Saltwater Depths: 1128,1219,1222

15) Approximate Coal Seam Depths: 230,281,696

16) Approximate Depth to Possible Void (coal mine, karst, other): None reported

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	60 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	750	750	668 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2865	2865	1126 ft ³ / CTS
Production	5 1/2	New	P-110	20	16406	16406	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination	
Liners							

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6.7.16

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	1.19
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class H	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.07/1.86
Tubing	2 3/8	NA	.19	7700			
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical to an approximate depth of 2935'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): No Additional

22) Area to be disturbed for well pad only, less access road (acres): No Additional

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
- Production: One solid body cent spaced every joint from production casing shoe to KOP

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

Conductor: Class A no additives
 Surface (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement slurries. 25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.
 Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.
 Production:
 Lead (Type H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). 15% SuperFL-300 (fluid loss/lengthens thickening time). 15% SEC-10 (fluid loss). 50:50 POZ (extender)
 Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. 3% Super FL-200 (fluid loss). 2% SEC-10 (Fluid loss). 2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation.
 60 % Calcium Carbonate. Acid solubility.

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25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

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*Note: Attach additional sheets as needed.

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1/2/16

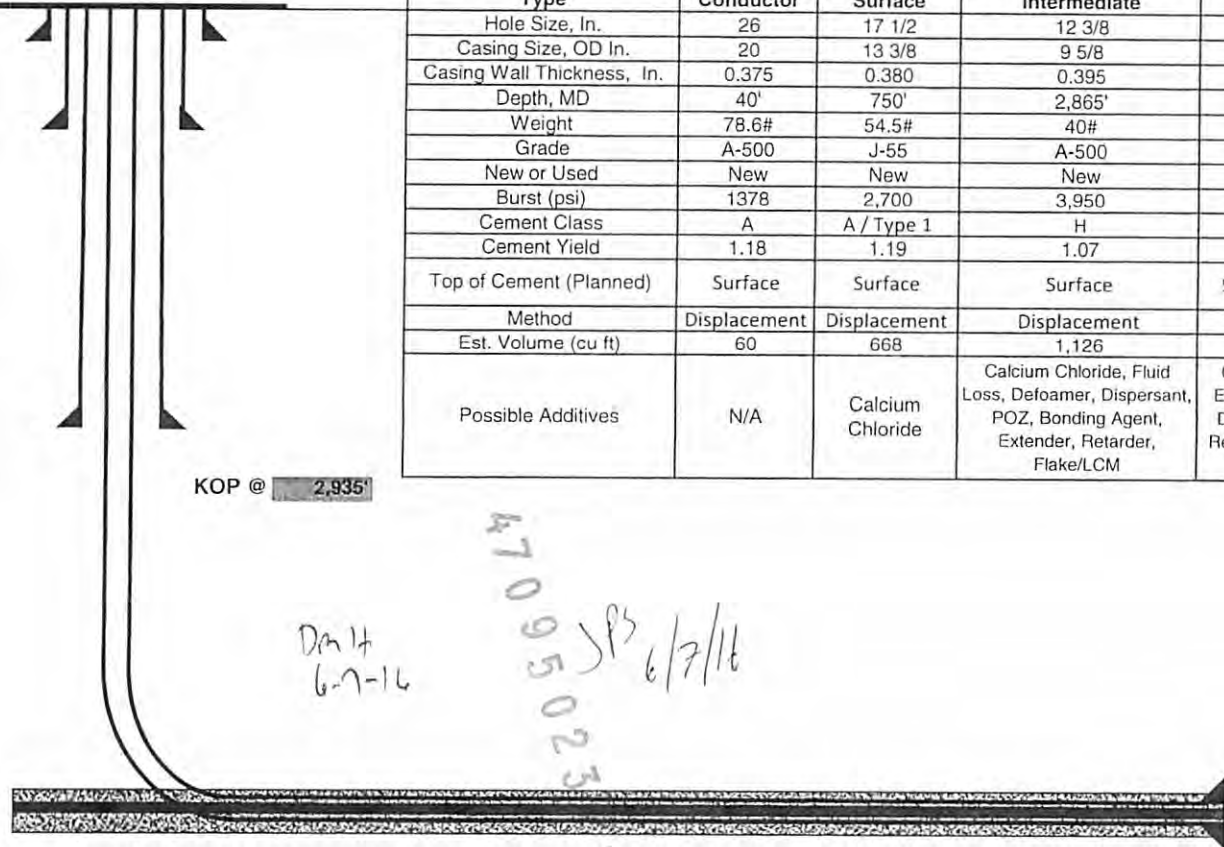
Well 516600(WEU4H14)

EQT Production
West Union Quad
Tyler County, WV

Azimuth 330
Vertical Section 8283.63

Note: Diagram is not to scale

Formations	Top TVD	Base TVD
Conductor	40	
Base Fresh Water	204	
Surface Casing	750	
Base Red Rock	1101	
Maxton	1838 - 2037	
Big Lime	2111 - 2395	
Weir	2403 - 2450	
Gantz	2490 - 2507	
Fifty foot	2604 - 2659	
Thirty foot	2690 - 2744	
Gordon	2770 - 2815	
Intermediate Casing	2865	
Forth Sand	2841 - 2903	
Bayard	3011 - 3148	
Warren	3374 - 3440	
Speechley	3460 - 3574	
Balltown A	3976 - 4088	
Riley	4574 - 4864	
Benson	4995 - 5058	
Alexander	5242 - 5324	
Sonyea	6328 - 6449	
Middlesex	6449 - 6496	
Genesee	6496 - 6570	
Geneseo	6570 - 6605	
Tully	6605 - 6626	
Hamilton	6626 - 6649	
Marcellus	6649 - 6702	
Production Casing	16406	MD
Onondaga	6702	



Casing and Cementing			Deepest Fresh Water: 204'	
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	26	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
Depth, MD	40'	750'	2,865'	16,406'
Weight	78.6#	54.5#	40#	20#
Grade	A-500	J-55	A-500	P-110
New or Used	New	New	New	New
Burst (psi)	1378	2,700	3,950	12,640
Cement Class	A	A / Type 1	H	H
Cement Yield	1.18	1.19	1.07	1.07/1.86
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	60	668	1,126	3,051
Possible Additives	N/A	Calcium Chloride	Calcium Chloride, Fluid Loss, Defoamer, Dispersant, POZ, Bonding Agent, Extender, Retarder, Flake/LCM	Calcium Carbonate, Fluid Loss, Extender, Dispersant, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

Land curve @ 6,880' TVD
8,284' MD

Est. TD @ 6,680' TVD
16,406' MD

8,122' Lateral

Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
Drill the vertical to an approximate depth of 2935'.
Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

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**EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: WEU4
Tyler County, WV**

8/22/16

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Tyler County, WV prior to hydraulic fracturing at the following EQT wells on the WEU4 pad: 516600

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,600' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

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 pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional 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 Conventional Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

Upon approval of this plan, EQT will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in **Attachment B**.

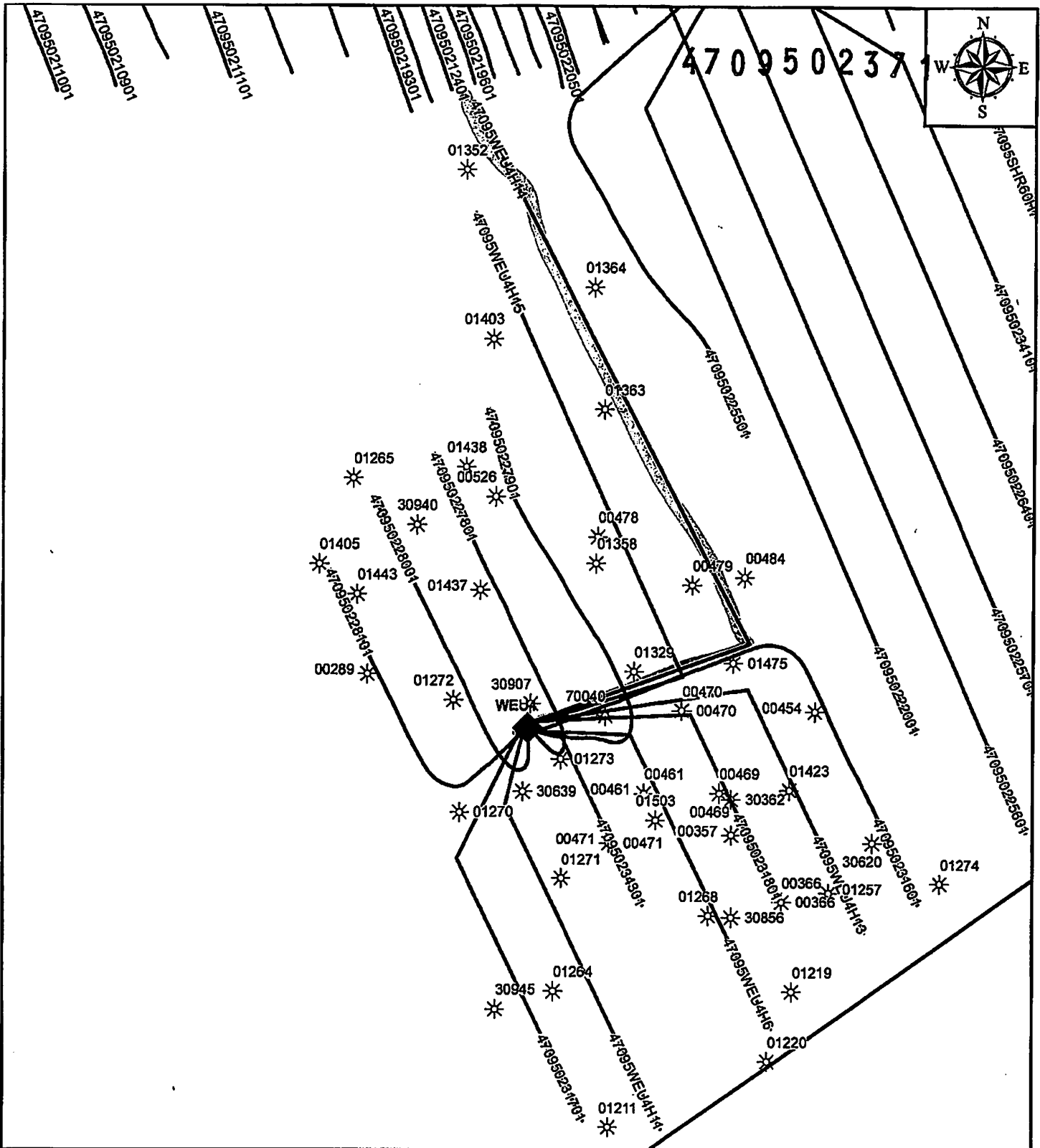
The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to EQT and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

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 rated to 3,000 psi or other necessary equipment for wellhead integrity
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

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



EQT
 EQT Corporation
 825 Liberty Avenue
 Pittsburgh, PA 15222

WEU4

Vertical Offsets and Foreign Laterals within 500'

Created By:
 Printed By: msaarl on 8/22/2018

Legend

- * WEU4 Vertical Offsets
- Ochsens Egg
- Marcellus Egg
- Middlesex Egg
- Utica Egg
- CHEMUNG
- MARCELLUS
- MIDDLESEX
- POINT PLEASANT
- UTICA

Disclaimer:

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

Scale: 1:20,828

1:1,575,004

UWI	Date Abandon	COMP DATE	Operator	Elevation	Datum Type	Status	LATITUDE	LONGITUDE	PERMIT Date	PROJ FM Name	SPUD DATE	TD FORM Name	TOTAL DEPTH
4709500366		3/19/1975	EQUITABLE GAS COMPANY	914	KB	SWDOP	39.3602	-80.8087	9/9/1974	UNKNOWN	9/19/1974	MISSISSIPPIAN	1942.00
4709500471		8/26/1975	EQUITABLE GAS COMPANY	933	GR	SWDOP	39.3624	-80.8169	8/2/1974	UNKNOWN	8/12/1974	GORDON /SD/	2576.00
4709501329		12/9/1989	CONSOL GAS COMPANY	1086	KB	GAS	39.3686	-80.8158	11/7/1989	BENSON /SD/	11/17/1989	BENSON /SD/	5200.00
4709501352		12/9/1989	CONSOL GAS COMPANY	1106	KB	GAS	39.3869	-80.8238	11/15/1989	BENSON /SD/	11/25/1989	DEVONIAN /SH/	5170.00
4709501403		8/17/1990	CONSOL GAS COMPANY	1008	KB	GAS	39.3808	-80.8225	7/23/1990	BENSON /SD/	8/2/1990	DEVONIAN /SH/	5210.00
4709501405		8/1/1990	DAC ENERGY LLC	986	KB	GAS	39.3726	-80.8308	7/9/1990	BIG INJUN /SD/	7/19/1990	BEREA	2136.00
4709501423		9/7/1990	CONSOL GAS COMPANY	1166	KB	GAS	39.3643	-80.8084	8/15/1990	BENSON /SD/	8/25/1990	DEVONIAN /SD/	5225.00
4709501475		6/11/1992	CONSOL GAS COMPANY	1192	KB	GAS	39.3689	-80.8111	5/10/1992	BENSON /SD/	5/20/1992	DEVONIAN /SD/	5284.00
4709501503		12/8/1992	CONSOL GAS COMPANY	998	GR	GAS	39.3632	-80.8148	10/4/1992	BENSON /SD/	10/14/1992	DEVONIAN /SD/	5100.00
4709501437		12/11/1990	CONSOL GAS COMPANY	982	KB	GAS	39.3716	-80.8231	10/23/1990	BENSON /SD/	11/2/1990	DEVONIAN /SD/	5100.00
4709501438		1/3/1991	CONSOL GAS COMPANY	1004	KB	GAS	39.3761	-80.8238	11/29/1990	BENSON /SD/	12/9/1990	DEVONIAN /SD/	5100.00
4709501443		1/2/1991	CONSOL GAS COMPANY	1054	KB	GAS	39.3715	-80.8290	11/22/1990	BENSON /SD/	12/2/1990	DEVONIAN /SD/	5150.00
4709500461		9/21/1973	EQUITABLE GAS COMPANY	919	GR	SWDOP	39.3642	-80.8153	8/10/1973	UNKNOWN	8/20/1973	DEVONIAN /SD/	2556.00
4709530940	7/5/1966		HOPE NATURAL GAS	0	GR	PSEUDO	39.3740	-80.8261					
4709570040			CARTER OIL COMPANY	0	GR	PSEUDO	39.3670	-80.8171					
4709500469		1/17/1975	EQUITABLE GAS COMPANY	999	GR	SWDOP	39.3642	-80.8117	6/2/1974	UNKNOWN	6/12/1974	DEVONIAN /SD/	2659.00
4709500357	10/23/1974	9/1/1962	LENNOX OIL & GAS	947	GR	ABD-GW	39.3627	-80.8112	7/18/1962		8/2/1962	POCONO	2010.00
4709500366		1/1/1963	LENNOX OIL & GAS	886	GR	D&A-OG	39.3602	-80.8087	11/17/1962		12/2/1962	BIG INJUN /SD/	1942.00
4709500454	10/28/1949	6/27/1913	HOPE NATURAL GAS	1007	GR	ABD-GW	39.3672	-80.8072	5/1/1913		5/16/1913	HURON LOWER	2886.00
4709500471	5/17/1950	7/30/1910	HOPE NATURAL GAS	933	GR	ABD-GW	39.3624	-80.8169	6/14/1910		6/29/1910	HURON LOWER	3026.00
4709530362	9/2/1944	12/6/1910	HOPE NATURAL GAS	1022	GR	ABD-GW	39.3640	-80.8112	10/10/1910		10/25/1910	HURON LOWER	2661.00
4709530620	4/27/1950	3/10/1911	HOPE NATURAL GAS	905	GR	ABD-GW	39.3624	-80.8044	12/28/1910		1/12/1911	GORDON	2565.00
4709530639	6/14/1950	8/12/1911	HOPE NATURAL GAS	956	GR	ABD-GW	39.3643	-80.8211	6/2/1911		6/17/1911	POCONO	1999.00
4709530856	5/19/1955	6/20/1911	HOPE NATURAL GAS	968	GR	ABD-GW	39.3596	-80.8112	5/4/1911		5/19/1911	POCONO	2091.00
4709500289	10/24/1962	6/18/1960	STONESTREET LANDS	830	GR	ABDOGW	39.3686	-80.8285	5/10/1960		5/25/1960	BIG INJUN /SD/	1908.00
4709530945	12/7/1968	5/21/1914	CONSOLIDATED GAS SUPPLY CORPORATION	0	GR	UNKWN	39.3563	-80.8224	4/6/1914		4/21/1914		
4709530907	11/8/1959	2/16/1902	HOPE NATURAL GAS	0	GR	UNKWN	39.3675	-80.8207	1/2/1902		1/17/1902		
4709501358		1/25/1990	CONSOL GAS COMPANY	1034	KB	GAS	39.3726	-80.8176	12/20/1989	BENSON /SD/	12/30/1989	DEVONIAN /SD/	5100.00
4709501363		1/30/1990	CONSOL GAS COMPANY	1107	KB	GAS	39.3782	-80.8172	12/30/1989	BENSON /SD/	1/9/1990	DEVONIAN /SD/	5190.00
4709501364		9/26/1990	CONSOL GAS COMPANY	1065	KB	GAS	39.3826	-80.8177	9/1/1990	BENSON /SD/	9/11/1990	DEVONIAN /SD/	5200.00
4709500470		8/28/1974	EQUITABLE GAS COMPANY	1027	GR	GSTGW	39.3672	-80.8135	3/24/1974	BIG INJUN /SD/	4/3/1974	GORDON	2657.00
4709501265		11/8/1988	CONSOL GAS COMPANY	993	KB	GAS	39.3757	-80.8292	10/15/1988	BENSON /SD/	10/25/1988	DEVONIAN /SD/	4992.00
4709501268		2/26/1989	CONSOL GAS COMPANY	1020	KB	GAS	39.3597	-80.8122	2/3/1989	BENSON /SD/	2/13/1989	DEVONIAN /SD/	5100.00
4709501270		2/23/1989	CONSOL GAS COMPANY	1072	KB	GAS	39.3635	-80.8241	1/29/1989	BENSON /SD/	2/8/1989	DEVONIAN /SD/	5200.00
4709501271		2/11/1989	CONSOL GAS COMPANY	953	KB	GAS	39.3611	-80.8192	1/17/1989	BENSON /SD/	1/27/1989	DEVONIAN /SD/	5102.00
4709501272		2/2/1989	CONSOL GAS COMPANY	1024	KB	GAS	39.3676	-80.8244	1/10/1989	BENSON /SD/	1/20/1989	DEVONIAN /SD/	5200.00
4709501273		2/17/1989	CONSOL GAS COMPANY	1130	KB	GAS	39.3654	-80.8193	1/23/1989	BENSON /SD/	2/2/1989	DEVONIAN /SD/	5300.00
4709501274		2/1/1991	CONSOL GAS COMPANY	1038	KB	GAS	39.3609	-80.8012	12/24/1990	BENSON /SD/	1/3/1991	DEVONIAN /SD/	5100.00
4709501211		10/10/1987	CONSOL GAS COMPANY	970	KB	GAS	39.3519	-80.8170	9/16/1987	BENSON /SD/	9/26/1987	DEVONIAN /SH/	5150.00
4709501219		12/14/1987	CONSOL GAS COMPANY	937	KB	GAS	39.3569	-80.8082	11/15/1987	BENSON /SD/	11/25/1987	DEVONIAN /SH/	5020.00
4709501220		1/7/1988	CONSOL GAS COMPANY	827	KB	GAS	39.3543	-80.8094	12/18/1987	BENSON /SD/	12/28/1987	DEVONIAN /SH/	4916.00
4709501257		10/24/1988	CONSOL GAS COMPANY	1030	KB	2GAS	39.3605	-80.8065	10/8/1988	BENSON /SD/	10/18/1988	DEVONIAN /SD/	5150.00
4709501264		11/15/1988	CONSOL GAS COMPANY	936	KB	GAS	39.3569	-80.8196	10/22/1988	BENSON /SD/	11/1/1988	DEVONIAN /SD/	5022.00
4709500478		9/1/1976	EQUITABLE GAS COMPANY	1049	GR	GAS	39.3736	-80.8175	7/18/1976		8/2/1976	BIG INJUN /SD/	2126.00
4709500479		7/1/1977	EQUITABLE GAS COMPANY	1010	GR	GSTG	39.3718	-80.8130	5/17/1977		6/1/1977	GANTZ /SD/	2417.00
4709500484		7/20/1977	EQUITABLE GAS COMPANY	1137	GR	GSTG	39.3721	-80.8105	6/12/1977		6/27/1977	GORDON	2450.00
4709500526		4/23/1980	EQUITABLE GAS COMPANY	1045	GR	GSTG	39.3750	-80.8224	8/2/1979		8/17/1979	POCONO	2170.00
4709500461			UNKNOWN	822	GR	PSEUDO	39.3642	-80.8153					
4709500469			UNKNOWN	999	GR	PSEUDO	39.3642	-80.8117					
4709500470			UNKNOWN	1027	GR	PSEUDO	39.3672	-80.8135					

Attachment A (2)

4709502371

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UWI	Name	Depth Top	Base Depth	Perforated Formations
4709501270000	BIG LIME	1920	2030	
4709501270000	BIG INJUN /SD/	2030	2130	
4709501270000	GORDON /SD/	2690	2750	
4709501270000	RILEY /SD/	4550	4610	
4709501270000	BENSON /SD/	4970	5040	
47095014030000	BIG LIME	1868	1932	
47095014030000	BIG INJUN /SD/	1976	2075	
47095014030000	BEREA	2428	2430	
47095014030000	RILEY /SD/	4512	4560	
47095014030000	BENSON /SD/	4933		
47095013290000	BIG LIME	1870	2010	
47095013290000	BIG INJUN /SD/	2010	2110	
47095013290000	RILEY /SD/	4510	4580	
47095013290000	BENSON /SD/	4580	5200	
47095012740000	LITTLE LIME	1863	1877	
47095012740000	BIG LIME	1895	1982	
47095012740000	BIG INJUN /SD/	1982	2100	
47095012740000	GORDON /SD/	2650	2700	
47095012740000	RILEY /SD/	4500	4555	
47095012740000	BENSON /SD/	4958	4963	
47095012190000	BIG LIME	1790	1870	
47095012190000	BIG INJUN /SD/	1870	1940	
47095012190000	BEREA	2330	2340	
47095012190000	GORDON /SD/	2540	2570	
47095012190000	RILEY /SD/	4370	4440	
47095012190000	BENSON /SD/	4810	4870	
47095015030000	BIG LIME	1844	1933	
47095015030000	BIG INJUN /SD/	1933	1977	
47095015030000	RILEY /SD/	4510	4890	
47095014750000	LITTLE LIME	1989	2025	
47095014750000	BIG LIME	2025	2100	
47095014750000	BIG INJUN /SD/	2106	2265	
47095014750000	RILEY /SD/	4640		
47095014750000	BENSON /SD/	5090	5150	
47095012680000	BIG LIME	1850	1935	
47095012680000	BIG INJUN /SD/	1935	2050	
47095012680000	GORDON /SD/	2600	2650	
47095012680000	RILEY /SD/	4450	4510	
47095012680000	BENSON /SD/	4897	4960	
47095013630000	LITTLE LIME	1915	1935	
47095013630000	BIG LIME	1945	2020	
47095013630000	BIG INJUN /SD/	2020	2135	
47095013630000	GORDON /SD/	2675	2730	
47095013630000	RILEY /SD/	4525		
47095013630000	BENSON /SD/	4985		
47095014380000	BIG LIME	1847	1940	

Attachment A(3)
10/28/2016

4709502371

47095014380000	BIG INJUN /SD/	1940	2070
47095014380000	GORDON /SD/	2604	2620
47095014380000	RILEY /SD/	4495	4570
47095012650000	BIG LIME	1810	1865
47095012650000	BIG INJUN /SD/	1865	2055
47095012650000	BEREA	2408	
47095012650000	RILEY /SD/	4488	
47095012650000	BENSON /SD/	4912	
47095014050000	MAXTON	1790	1810
47095014050000	BIG LIME	1830	1902
47095014050000	BIG INJUN /SD/	1948	2032
47095014430000	LITTLE LIME	1863	1875
47095014430000	BIG LIME	1899	1990
47095014430000	GORDON /SD/	2680	2695
47095014430000	RILEY /SD/	4515	4595
47095014430000	BENSON /SD/	4925	
47095012200000	BIG LIME	1708	
47095012200000	BEREA	2255	
47095012200000	GORDON /SD/	2469	
47095012200000	RILEY /SD/	4339	
47095012200000	BENSON /SD/	4760	
47095014370000	LITTLE LIME	1809	1824
47095014370000	BIG LIME	1835	1943
47095014370000	BIG INJUN /SD/	1943	2050
47095014370000	GORDON /SD/	2600	2620
47095014370000	RILEY /SD/	4465	
47095014370000	BENSON /SD/	4900	4930
47095013520000	BIG LIME	1968	2035
47095013520000	BIG INJUN /SD/	2035	2114
47095013520000	RILEY /SD/	4600	4659
47095013520000	BENSON /SD/	4659	
47095013580000	LITTLE LIME	1840	1855
47095013580000	BIG LIME	1872	1965
47095013580000	BIG INJUN /SD/	1965	2080
47095013580000	GORDON /SD/	2635	2643
47095013580000	RILEY /SD/	4475	
47095013580000	BENSON /SD/	4915	
47095012730000	BIG LIME	2000	2110
47095012730000	BIG INJUN /SD/	2110	
47095012730000	GORDON /SD/	2770	2830
47095012730000	RILEY /SD/	4596	4660
47095012730000	BENSON /SD/	4955	5190
47095012570000	LITTLE LIME	1828	1838
47095012570000	BIG LIME	1860	
47095012570000	BIG LIME	1870	1956
47095012570000	BIG INJUN /SD/	1938	
47095012570000	BIG INJUN /SD/	1956	2060

Attachment A(4)
10/28/2016

4709502371

47095012570000	WEIR /SD/	2207	
47095012570000	BEREA	2410	
47095012570000	GORDON /SD/	2615	
47095012570000	GORDON /SD/	2654	2675
47095012570000	RILEY /SD/	4457	
47095012570000	RILEY /SD/	4478	4534
47095012570000	BENSON /SD/	4905	
47095012570000	BENSON /SD/	4915	4927
47095014230000	BIG INJUN /SD/	2085	2196
47095014230000	GORDON /SD/	2745	2805
47095014230000	RILEY /SD/	4595	4668
47095014230000	BENSON /SD/	5030	
47095012110000	BIG LIME	1830	1920
47095012110000	BIG INJUN /SD/	1920	2020
47095012110000	WEIR /SD/	2170	2280
47095012110000	BEREA	2380	2390
47095012110000	GORDON /SD/	2580	2630
47095012110000	RILEY /SD/	4430	4520
47095012110000	BENSON /SD/	4850	4920
47095012640000	BIG LIME	1749	
47095012640000	BIG LIME	1760	1822
47095012640000	BIG INJUN /SD/	1822	1941
47095012640000	BIG INJUN /SD/	1834	
47095012640000	WEIR /SD/	2100	
47095012640000	BEREA	2302	
47095012640000	GORDON /SD/	2500	2535
47095012640000	GORDON /SD/	2500	
47095012640000	RILEY /SD/	4337	
47095012640000	RILEY /SD/	4358	4414
47095012640000	BENSON /SD/	4796	
47095012640000	BENSON /SD/	4802	4817
47095012710000	BIG LIME	1800	1910
47095012710000	BIG INJUN /SD/	1910	2010
47095012710000	GORDON /SD/	2570	2620
47095012710000	RILEY /SD/	4400	4490
47095012710000	BENSON /SD/	4840	4940
47095013640000	LITTLE LIME	1892	1905
47095013640000	BIG LIME	1924	2010
47095013640000	BIG INJUN /SD/	2016	2145
47095013640000	GORDON /SD/	2668	2715
47095013640000	RILEY /SD/	4535	4565
47095012720000	BIG LIME	1900	2010
47095012720000	BIG INJUN /SD/	2010	2110
47095012720000	GORDON /SD/	2670	2730
47095012720000	RILEY /SD/	4500	4590
47095012720000	BENSON /SD/	4920	5040

Attachment A (5)
10/28/2016

4709502371

625 Liberty Ave, Suite 1700
Pittsburgh PA 15222
www.eqt.com

TEL: (412) 395-3305
FAX: (412) 395-2156

John Centofanti
Corporate Director,
Environmental Affairs



(date)

[Conventional Well Operator]
[address]
[state]

RE: Tyler County Hydraulic Fracturing Notice

Dear Sir/Madam,

EQT has developed a Marcellus pad (West Union 4 pad) located in Tyler County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6,600' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

EQT anticipates conducting hydraulic fracturing at the West Union 4 pad during the [first, second, third, fourth] quarter of [year]. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish 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 rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified.

Please feel free to contact me at 412-395-3305 with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0440.

Sincerely,
EQT Production

John Centofanti
Corporate Director, Environmental Affairs

cc: James Martin, WV Office of Oil and Gas

Attachment B
10/28/2016



April 28, 2016

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

4709502371

Re: Casing change on WEU4 (516600,)

Dear Mr. Smith,

EQT is requesting the 13 3/8" surface casing to be set at 750' KB, 50' below the coal at 696-700' KB. We will set the 9-5/8" intermediate string at 2865' KB, 50' below the base of the Gordon.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark', is written over the word 'Sincerely,'.

Vicki Roark
Permitting Supervisor-WV

Enc.



4709502317

west virginia department of environmental protection

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

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

March 18, 2014

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

Re: Cement Variance Request

Dear Sir or Madam,

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

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

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

Sincerely,

James Peterson
Environmental Resources Specialist / Permitting

Promoting a healthy environment.

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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)
REGULATIONS OF CEMENTING OIL)
AND GAS WELLS)

REPORT OF THE OFFICE

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

FINDINGS OF FACT

1.) Nabors Completion & Production Services Co. proposes the following cement blend:

- 2% Calcium Chloride (Accelerator)
- 0.25 % Super Flake (Lost Circulation)
- 94% Type "1" Cement
- 5.20 % Water

2.) 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.

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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

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WV Department of
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API Number 47 - 95 - _____
Operator's Well No. 516600 _____

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

4709502371

Operator Name EQT Production Company OP Code 306686
Watershed (HUC 10) Tributary of Camp Mistake Run Quadrangle West Union

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: flowback and residual solids

Will a synthetic liner be used in the pit? Yes No If so, what ml.? 60

Proposed Disposal Method For Treated Pit Wastes:

- 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 _____)

PS
6/7/16
DMH
6-7-16

Will closed loop system be used? If so, describe: Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.

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

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud

Additives to be used in drilling medium? See Attached

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? See Attached List

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

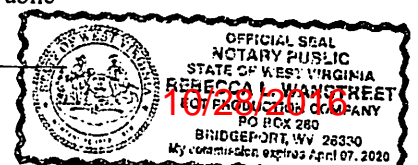
Company Official Signature [Signature]
Company Official (Typed Name) Victoria J. Roark
Company Official Title Permitting Supervisor

Received
Office of Oil & Gas
JUN 14 2016

Subscribed and sworn before me this 11 day of May, 2016

Rebecca J. Mansstreet Notary Public

My commission expires 4-7-20



4709502371

Form WW-9

Operator's Well No. 516600

EQT Production Company

Proposed Revegetation Treatment: Acres Disturbed no additional Prevegetation pH 6.3

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type Granular 10-20-20

Fertilizer amount 1/3 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

4709502371

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Cultbas Inspector

Date: 6/7/16

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JUN 14 2016

Field Reviewed? Yes No

10/28/2016

WW-9 Attachment

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

- 47095025
- 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.

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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

4709502371

BROAD STREET ENERGY LLC

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

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

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

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

KING EXCAVATING CO.

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

Waste Management - Meadowfill Landfill

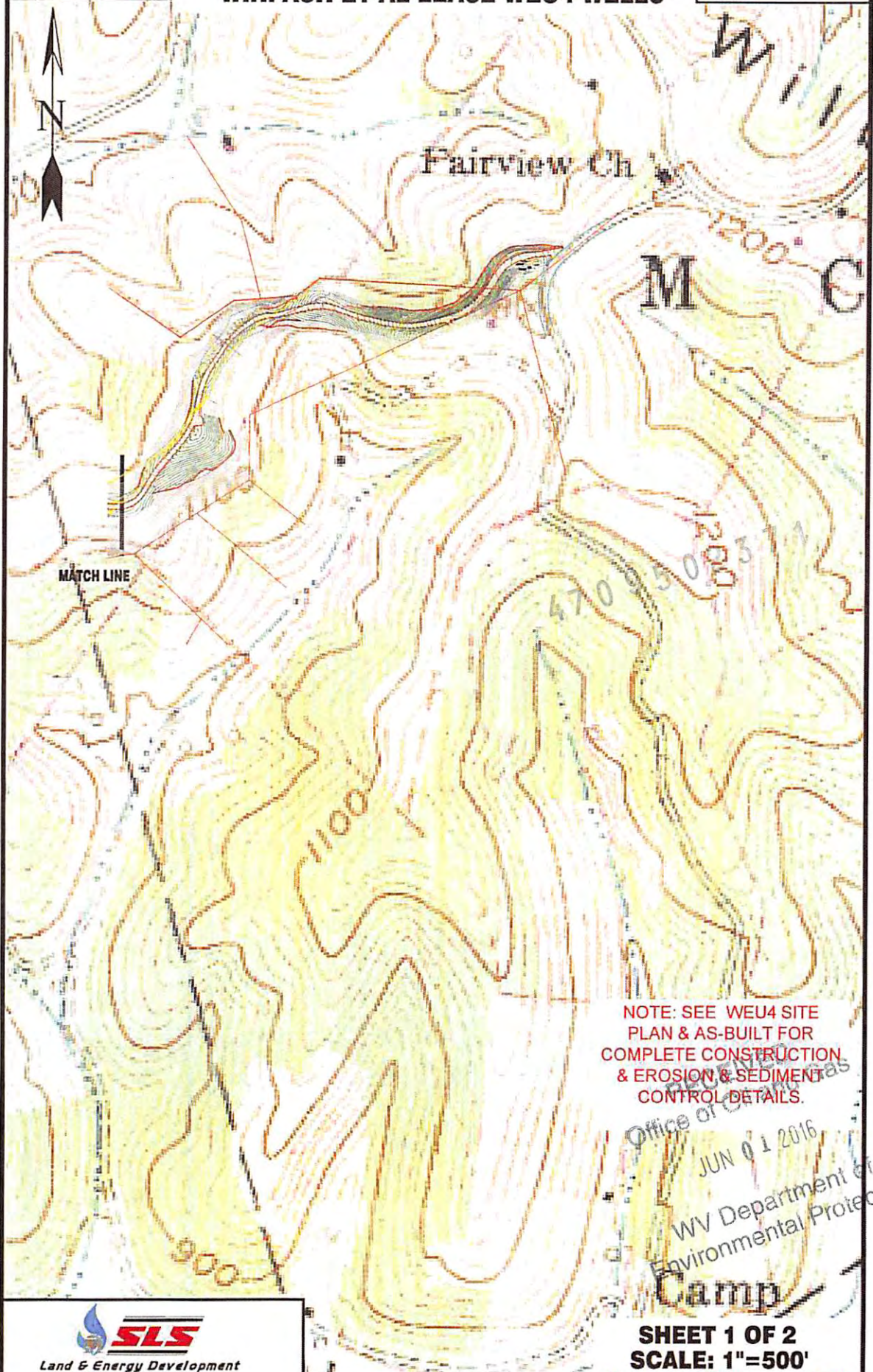
Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill

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

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NOTE: SEE WEU4 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS.

REC'D
Office of Compliance
JUN 01 2016
WV Department of Environmental Protection
Camp

SLS
Land & Energy Development
Solutions from the ground up
P.O. Box 1524 • 112 Warren Drive • Clarksburg, WV 26304 • (304) 462-9534
www.slsusa.com

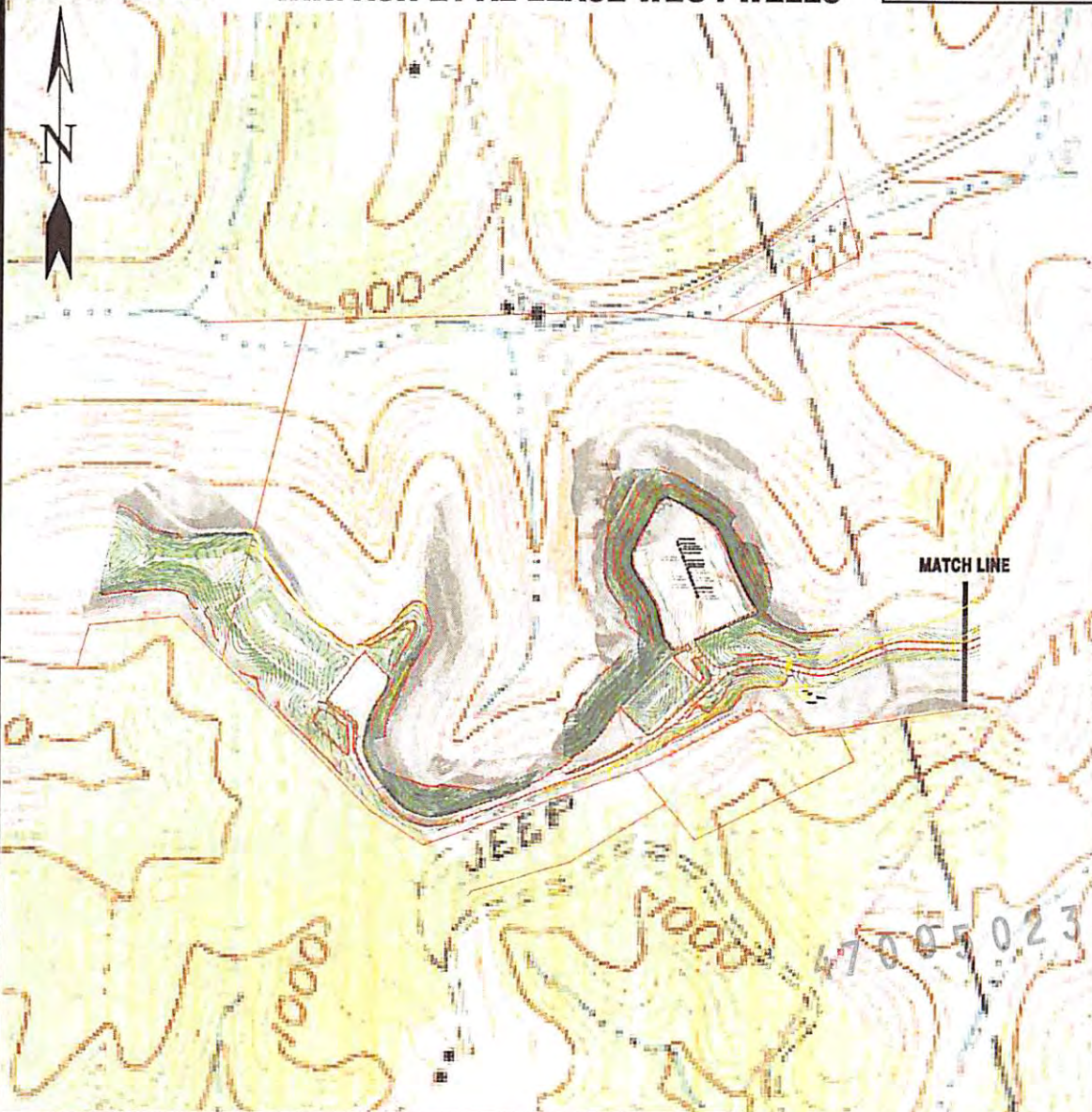
DRAWN BY: K.D.W.	FILE NO. 7701	DATE 04-28-16	CADD FILE: 7701RECPLANR1.dwg
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TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

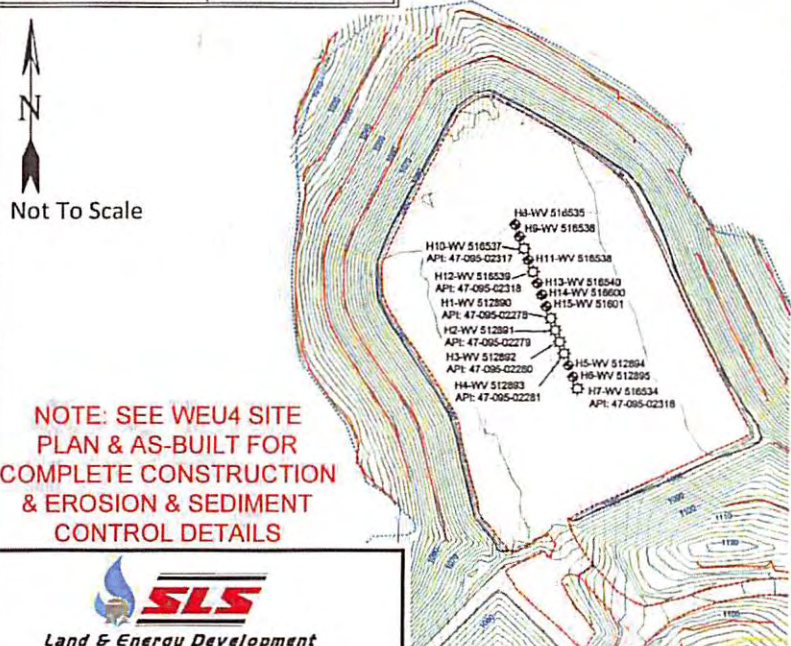
SHEET 1 OF 2
SCALE: 1"=500'

0' 500' 1000'

10/28/2016



Detail Sketch for Proposed WEU4 Wells



NOTE: SEE WEU4 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS

NOTE: SEE WEU4 SITE PLAN & AS-BUILT FOR COMPLETE CONSTRUCTION & EROSION & SEDIMENT CONTROL DETAILS

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DRAWN BY K.D.W.	FILE NO. 7701	DATE 04-28-16	CADD FILE: 7701RECPLAN#3.dwg
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TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

SHEET 2 OF 2
SCALE: 1"=500'



10/28/2016



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Where energy meets innovation.™

Site Specific Safety Plan

EQT WEU 4 Pad

4709502371

Alma
Tyler County, WV

For Wells:

Date Prepared:

February 3, 2016

EQT Production
Permitting Supervisor
Date 5/10/16

WV Oil and Gas Inspector
District Inspector
Title
Date 6/7/16

Received
Office of Oil & Gas
4 115

10/28/2016

**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				

4709502371

**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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WV Department of
Environmental Protection

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

Well Operator: EQT Production Company
 By: Victoria Roark
 Its: Permitting Supervisor

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
126129	Waco Oil & Gas Co. Inc., et al (current royalty owner)		***	
	William H. Ash, et ux, et al (original lessor)	Equitable Gas Company		LB191/321
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB 433/777
	Equitrans, LP	EQT Production Company		DB 396/640
	Equitrans, LP	EQT Production Company		OG 440/107
126208	Roxie Davis, et al (current royalty owner)		***	
	Lucy Davis, et al. (original lessor)	Equitable Gas Company		DB 197/551
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777
	Equitrans, L.P.	EQT Production Company		DB 396/640
126165	Hester Britton, et al (current royalty owner)			
	Asia Dell Cumberledge, et al (original lessor)	Equitable Gas Company		LB192/360
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB 433/777
	Equitrans, LP	EQT Production Company		DB 396/640
126187	Jerry Ray Brown, et al (current royalty owner)			
	Addie Keys, et al (original lessor)	Equitable Gas Company		LB 385/475
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777
	Equitrans, L.P.	EQT Production Company		DB 396/640
126221	EQT Mineral Purchasing Group, et al (current royalty owner)			
	Ora E. Pratt, et al (original lessor)	Equitable Gas Company		DB 200/38
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777
	Equitrans, L.P.	EQT Production Company		DB 396/640
	Formations below the base of the Fifth Sand			
126213	BRC Appalachian Minerals I LLC, et al (current royalty owner)		***	
	Carrie Robinson & J.B. Robinson (original lessor)	Hope Natural Gas Company		DB 70/483
	Hope Natural Gas Company	Consolidated Gas Supply Corporation		DB 169/26
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation		DB 249/287
	Consolidated Gas Transmission Corporation	CNG Development Company		DB 253/57
	CNG Development Company	CNG Producing Company		1096/124 (Delaware)
	CNG Producing Company	Dominion Exploration & Production, Inc		unrecorded name change (filed with secretary of state 5/10/00)
	Dominion Exploration & Production, Inc	CNX Gas Company LLC		384/191
	CNX Gas Company LLC	EQT Production Company		525/244
126191	EQT Mineral Purchasing Group (current royalty owner)		***	
	D.L. Haight, et al (original lessor)	Equitable Gas Company		DB 195/469
	Equitable Gas Company	Equitrans, Inc.		DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777
	Equitrans, L.P.	EQT Production Company		DB 396/640

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 WV Department of Environmental Protection

<u>126131</u>	<u>CNX Gas Company, LLC (current royalty owner)</u>	...	
	Walton E. Smith, Jr., et ux (original lessor)	Equitable Gas Company	DB 211/555
	Equitable Gas Company	Equitrans, Inc.	DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.	DB 433/777
	Equitrans, L.P.	EQT Production Company	DB 396/640
<u>126130</u>	<u>George Berklein, et al (current royalty owner)</u>	...	
	Donald Underwood, et al. (original lessor)	Equitable Gas Company	DB 191/313
	Equitable Gas Company	Equitrans, Inc.	DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.	DB 433/777
	Equitrans, L.P.	EQT Production Company	DB 396/640
<u>126164</u>	<u>Robert Seckman, et al (current royalty owner)</u>	...	
	Retha Seckman, et al (original lessor)	Equitable Gas Company	DB 192/351
	Equitable Gas Company	Equitrans, Inc.	DB 274/471
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.	DB 433/777
	Equitrans, L.P.	EQT Production Company	DB 396/640

*** We will pay 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.

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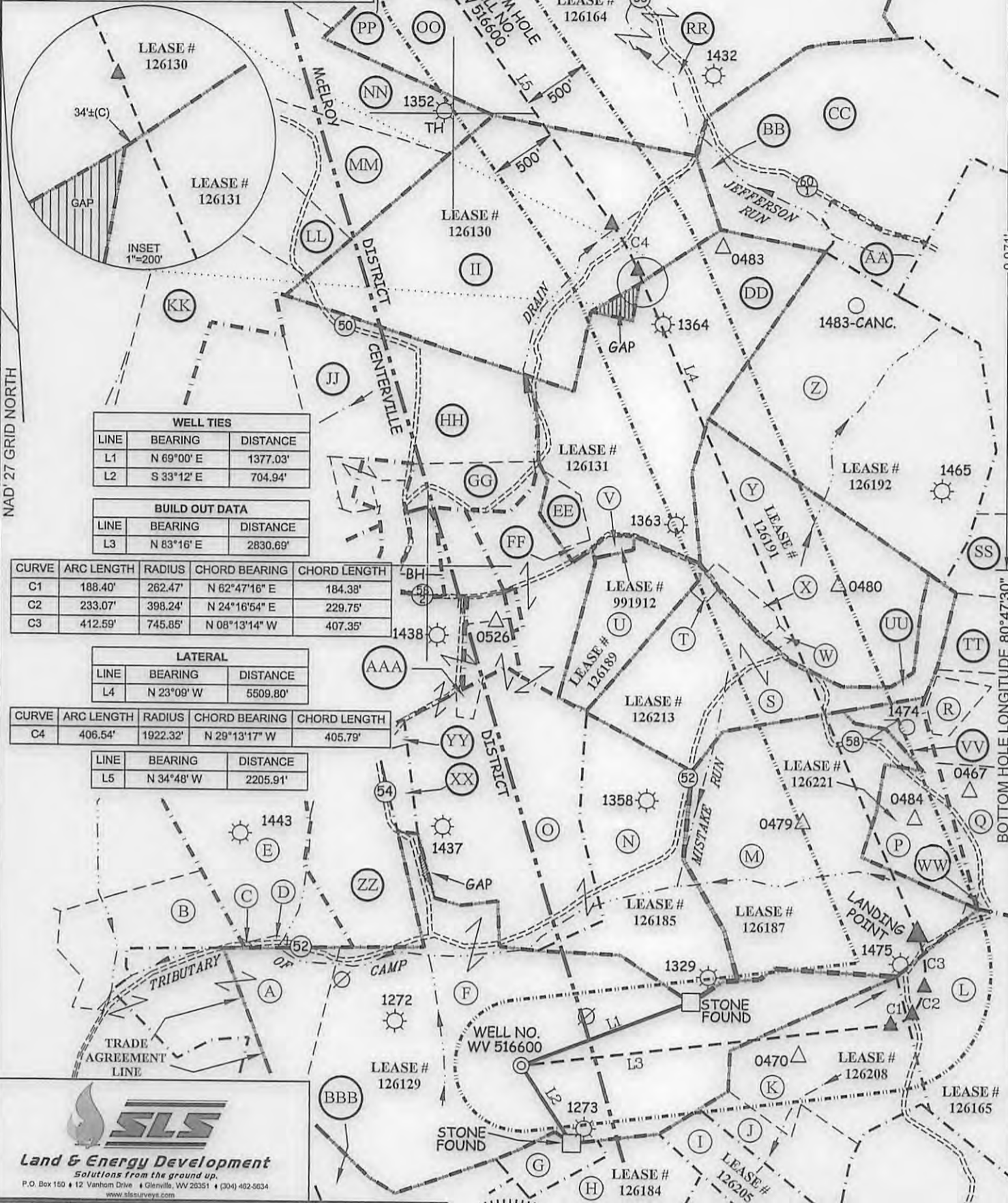
WEU4
WV 516600
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°25'00"

3,046'

9,971'

BOTTOM HOLE LONGITUDE 80°47'30"



NAD'27 GRID NORTH

WELL TIES		
LINE	BEARING	DISTANCE
L1	N 69°00' E	1377.03'
L2	S 33°12' E	704.94'

BUILD OUT DATA		
LINE	BEARING	DISTANCE
L3	N 83°16' E	2830.69'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	188.40'	262.47'	N 62°47'16" E	184.38'
C2	233.07'	398.24'	N 24°16'54" E	229.75'
C3	412.59'	745.85'	N 08°13'14" W	407.35'

LATERAL		
LINE	BEARING	DISTANCE
L4	N 23°09' W	5509.80'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C4	406.54'	1922.32'	N 29°13'17" W	405.79'

LINE	BEARING	DISTANCE
L5	N 34°48' W	2205.91'

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhook Drive • Glenville, WV 26351 • (304) 492-5634
www.slsurveys.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD'27 S.P.C. (FT)	N. 318,392.30	E. 1,626,564.08	
NAD'27 GEO.	LAT-(N) 39.366638	LONG-(W) 80.820880	
NAD'83 UTM (M)	N. 4,357,488.40	E. 515,444.77	
LANDING POINT			
NAD'27 S.P.C. (FT)	N. 319,421.37	E. 1,629,575.42	
NAD'27 GEO.	LAT-(N) 39.369584	LONG-(W) 80.810283	
NAD'83 UTM (M)	N. 4,357,817.24	E. 516,356.95	
BOTTOM HOLE			
NAD'27 S.P.C. (FT)	N. 326,653.36	E. 1,625,952.97	
NAD'27 GEO.	LAT-(N) 39.389292	LONG-(W) 80.823472	
NAD'83 UTM (M)	N. 4,360,002.04	E. 515,216.60	

VICTOR MOYERS
LICENSED
No. 849
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

LEGEND	
LEASE LINE	-----
SURFACE LINE	-----
WELL LATERAL	-----
OFFSET LINE	-----
TIE LINE	-----
FENCE	-----
CREEK	-----
ROAD	-----
COUNTY ROUTE	-----
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
PLUGGED WELL	⊙
STORAGE WELL	⊙
CENTERVILLE DISTRICT TAX MAP-PARCEL	C-00-00
MELROY DISTRICT TAX MAP-PARCEL	M-00-00

SCALE 1" = 1000'

DATE SEPTEMBER 03, 20 15

REVISED 05/03/16, 05/26/16 & 08/02/16

OPERATORS WELL NO. WV 516600

API WELL NO. 47 - 095 - 02371

NO. STATE COUNTY PERMIT

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

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

10/28/2016

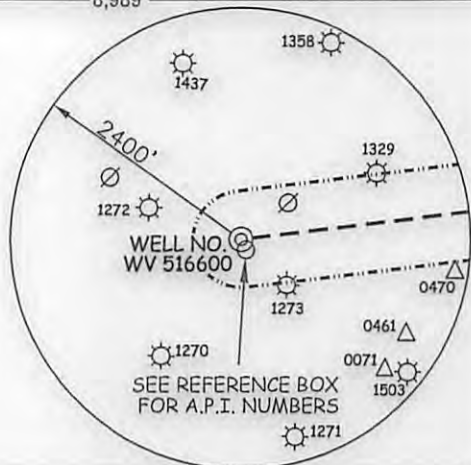
WEU4
WV 516600
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°25'00"

A	RICHARD & YVONNE METCALF	61.57 AC±	TM C-16-17
B	JOHN ANDERS II	19.75 AC±	TM C-16-21.1
C	JOHN ANDERS II	0.09 AC±	TM C-16-14.2
D	RICHARD & YVONNE METCALF	0.61 AC±	TM C-16-14.1
E	CONRAD COSTILOW	46.17 AC±	TM C-16-14
F	DONNA PETER	113.4 AC±	TM C-16-22
G	PAUL WEEKLY (LIFE)	5 AC±	TM C-16-28
H	PAUL WEEKLY (LIFE)	18 AC±	TM C-16-27
I	EDWARD & CAROLYN WHITE	16 AC±	TM M-21-40
J	EDWARD & CAROLYN WHITE	12.50 AC±	TM M-21-39
K	EDWARD & CAROLYN WHITE	40 AC±	TM M-21-38
L	ASIA CUMBERLEDGE	75.75 AC±	TM M-21-32
M	BRUCE & SANDRA STONEKING	69.44 AC±	TMM-21-28
N	BRUCE & SANDRA STONEKING	42.86 AC±	TM M-21-29
O	ELIZABETH ABRUZZINO	109.94 AC±	TM C-16-10
P	GARY DAVENPORT	16 AC±	TM M-21-25
Q	PEGGY WHITE	45.88 AC±	TM M-21-23
R	ROGER FERGUSON	3.053 AC±	TM M-21-17.1
S	BOBBY & RITA DOLL	49 AC±	TM M-21-11
T	GAMALIEL REYES ET AL	0.58 AC±	TM M-21-10
U	PERRY HAUGHT JR.	16.21 AC±	TM M-21-08
V	BILLY JO DOLL	0.58 AC±	TM M-21-9.1
W	LESTER HAUGHT	0.25 AC±	TM M-21-12
X	PERRY HAUGHT JR.	2.48 AC±	TM M-21-13.1
Y	DONNIE & KIM WILMOTH	52.52 AC±	TM M-21-13
Z	DONNIE & KIM WILMOTH	73.39 AC±	TM M-21-14
AA	BARBARA WILLIER	5.90 AC±	TM M-18-21
BB	BARBARA WILLIER	14 AC±	TM M-18-22.1
CC	DONALD BIBLE SR.	39.26 AC±	TM M-18-22
DD	DONNIE & KIM WILMOTH	63.29 AC±	TM M-21-09
EE	KATHLEEN WINKELMAN	2.59 AC±	TM M-21-9.2
FF	RANDY & CHARLEEN BYRD	0.88 AC±	TM M-21-07
GG	CHRIS BAUM ET AL	13 AC±	TM M-21-03
HH	CHRIS BAUM ET AL	14 AC±	TM M-21-02
II	JAMES MEANS	90 AC±	TM M-18-24
JJ	CHRIS BAUM ET AL	24 AC±	TM M-21-01
KK	WILLIAM & MARY DANIELS	45.86 AC±	TM C-13-07
LL	PAUL DOLVIN	21.66 AC±	TM C-13-06
MM	CHRIS BAUM ET AL	22.31 AC±	TM C-13-05
NN	CHRIS BAUM ET AL	28 AC±	TM C-13-5.1
OO	CLYDE SECKMAN ESTATE	111.75 AC±	TM M-18-23
PP	BRENDA ASHLEY	22.65 AC±	TM M-18-7.2
QQ	OK NAN KEYS	13.018 AC±	TM M-18-07
RR	BILLY & ALTHA SECKMAN	1 AC±	TM M-18-23.1
SS	PAUL WEEKLY (LIFE)	36 AC±	TM M-21-15
TT	PAUL WEEKLY (LIFE)	36 AC±	TM M-21-16
UU	DONNIE & KIM WILMOTH	7.50 AC±	TM M-21-27
VV	PEGGY WHITE	5 AC±	TM M-21-26
WW	TRUSTEES OF FAIRVIEW CHURCH	1 AC±	TM M-21-24
XX	MARK & JOEL PROSSER	2.50 AC±	TM C-16-15
YY	MARK & JOEL PROSSER	0.50 AC±	TM C-16-12
ZZ	DAVID WOLFE	24.84 AC±	TM C-16-16
AAA	RUTH & OLIN DOLL	1 AC±	TM M-21-31
BBB	CHRIS BAUM ET AL	56.84 AC±	TM C-16-23

TH

BH



(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD27 S.P.C.(FT)	N. 318,392.30	E. 1,626,564.08
NAD27 GEO.	LAT-(N) 39.366638	LONG-(W) 80.820880
NAD83 UTM (M)	N. 4,357,488.40	E. 515,444.77

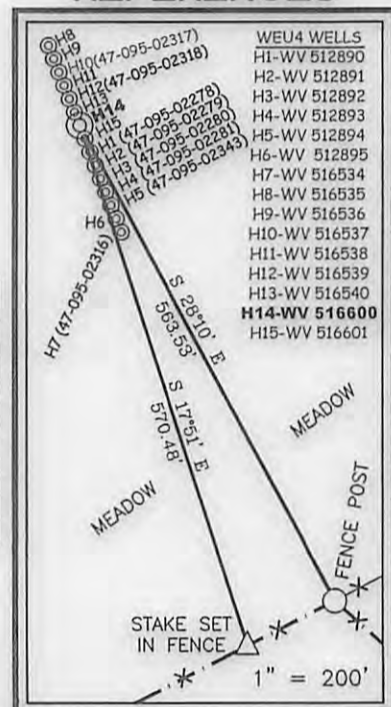
LANDING POINT

NAD27 S.P.C.(FT)	N. 319,421.37	E. 1,629,575.42
NAD27 GEO.	LAT-(N) 39.369584	LONG-(W) 80.810283
NAD83 UTM (M)	N. 4,357,817.24	E. 516,356.95

BOTTOM HOLE

NAD27 S.P.C.(FT)	N. 326,653.36	E. 1,625,952.97
NAD27 GEO.	LAT-(N) 39.389292	LONG-(W) 80.823472
NAD83 UTM (M)	N. 4,360,002.04	E. 515,216.60

REFERENCES



ROYALTY OWNERS

ROXIE DAVIS ET AL	53 AC±	LEASE NO. 126208
HESTER BRITTON ET AL	76 AC±	LEASE NO. 126166
JERRY RAY BROWN ET AL	85 AC±	LEASE NO. 126187
EQT MINERAL PURCHASING GROUP ET AL	19 AC±	LEASE NO. 126221
BRC APPALACHIAN MINERALS, LLC ET AL	55 AC±	LEASE NO. 126213
EQT MINERAL PURCHASING GROUP	55 AC±	LEASE NO. 126191
CNX GAS COMPANY	66 AC±	LEASE NO. 126131
GEORGE BIRKLEIN ET AL	90 AC±	LEASE NO. 126130
ROBERT SECKMAN ET AL	113 AC±	LEASE NO. 126164

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 13, 20 15
REVISED 05/03/16, 05/26/16 & 08/02/16
OPERATORS WELL NO. WV 516600
API WELL NO. 47-095-02371
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7701P516600R3
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE SEE NOTE 2

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



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: PAD ELEVATION 1,079' WATERSHED TRIBUTARY OF CAMP MISTAKE RUN
DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'

SURFACE OWNER DONNA J. PETER ACREAGE 113.40±
ROYALTY OWNER WACO OIL & GAS CO. INC. ET AL ACREAGE 152±
PROPOSED WORK: LEASE NO. 126129

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH 6,680'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

TOP HOLE LONGITUDE 80°47'30"
BOTTOM HOLE LONGITUDE 80°47'30"

097145

BK 1096 PG 0124

State of Delaware

PAGE 1



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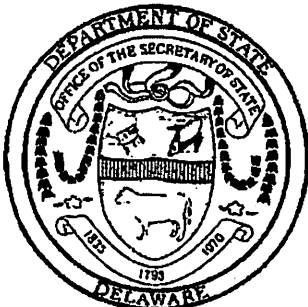
Office of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AGREEMENT OF MERGER OF "CNG DEVELOPMENT COMPANY" MERGING WITH AND INTO "CNG PRODUCING COMPANY" UNDER THE NAME OF "CNG PRODUCING COMPANY" AS RECEIVED AND FILED IN THIS OFFICE THE TWENTIETH DAY OF DECEMBER, A.D. 1990, AT 1 O'CLOCK P.M.

|||||

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90 DEC 27 P 0339

EVELYN T. A. ...
000000



909354067

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Office of Oil and Gas
Michael Harkins
Michael Harkins, Secretary of State
JUN 01 2016

AUTHENTICATION: 12897263

DATE: 12/20/1990
WV Department of Environmental Protection

16 | 36248

10/28/2016

State of West Virginia



Certificate

I, Ken Hechler, Secretary of State of the State of West Virginia, hereby certify that

originals of an application by

CNG PRODUCING COMPANY

4709502371

for an amended certificate of authority to transact business in West Virginia are filed in my office, as required by the provisions of Chapter 31, Article 1, Sections 57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

DOMINION EXPLORATION & PRODUCTION, INC.

and I attach to this certificate a duplicate original of the application.



Given under my hand and the Great Seal of the State of West Virginia on

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Office of Oil and Gas

MAY 10 2016

Department of Environmental Protection

Ken Hechler

Secretary of State
10/28/2016



April 28, 2016

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

Re: WEU4 well pad, well number 516600
Centerville District, Tyler 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,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

4709502371

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Office of Oil and Gas
JUN 01 2016
WV Department of
Environmental Protection

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

Date of Notice Certification: 5/11/10

API No. 47- 95 _____
Operator's Well No. 516600
Well Pad Name: WEU4

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>515444.769</u>
County: <u>Tyler</u>		Northing: <u>4357488.399</u>
District: <u>Centerville</u>	Public Road Access: <u>WV-18</u>	
Quadrangle: <u>West Union</u>	Generally used farm name: <u>Donna J. Peter</u>	
Watershed: <u>Tributary of Camp Mistake Run</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p style="font-size: 24px; font-weight: bold;">670 9502371</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
--	--

Required Attachments:

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

RECEIVED
Office of Oil and Gas

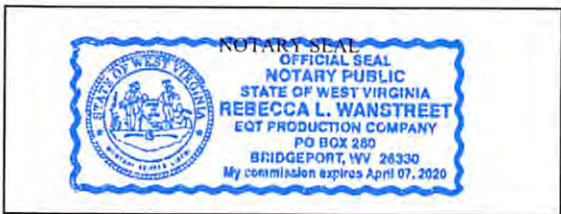
JUN 01 2016

WV Department of
Environmental Protection
10/28/2016

Certification of Notice is hereby given

THEREFORE, I [Signature], 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:	<u>EQT Production Company</u>	Address:	<u>115 Professional Place PO Box 280</u>
By:	<u>Victoria Roark</u>		<u>Bridgeport WV 26330</u>
Its:	<u>Permitting Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0076</u>	Email:	<u>vroark@eqt.com</u>



Subscribed and sworn before me this 11 day of May 2016.
Rebecca L. Wanstreet Notary Public
 My Commission Expires 4-7-20

Oil and Gas Privacy Notice:

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

4709502371

RECEIVED
 Office of Oil and Gas
 JUN 01 2016
 WV Department of
 Environmental Protection
 10/28/2016

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 5/31/10 Date Permit Application Filed: 5/31/10

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: See Attached

Address: _____

Name: _____

Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See Attached

Address: _____

Name: _____

Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: See Attached

Address: _____

COAL OWNER OR LESSEE

Name: See Attached

Address: _____

COAL OPERATOR

Name: _____

Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attached

Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____

Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas

JUN 01 2016

WV Department of
Environmental Protection 10/28/2016

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.

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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 amendment, the secretary shall address the items

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

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Office of Oil and Gas

JUN 01 2016

WV Department of
Environmental Protection
10/28/2016

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.

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

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

WW-6A
(8-13)

API NO. 47- 95 -
OPERATOR WELL NO. 516600
Well Pad Name: WEU4

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.

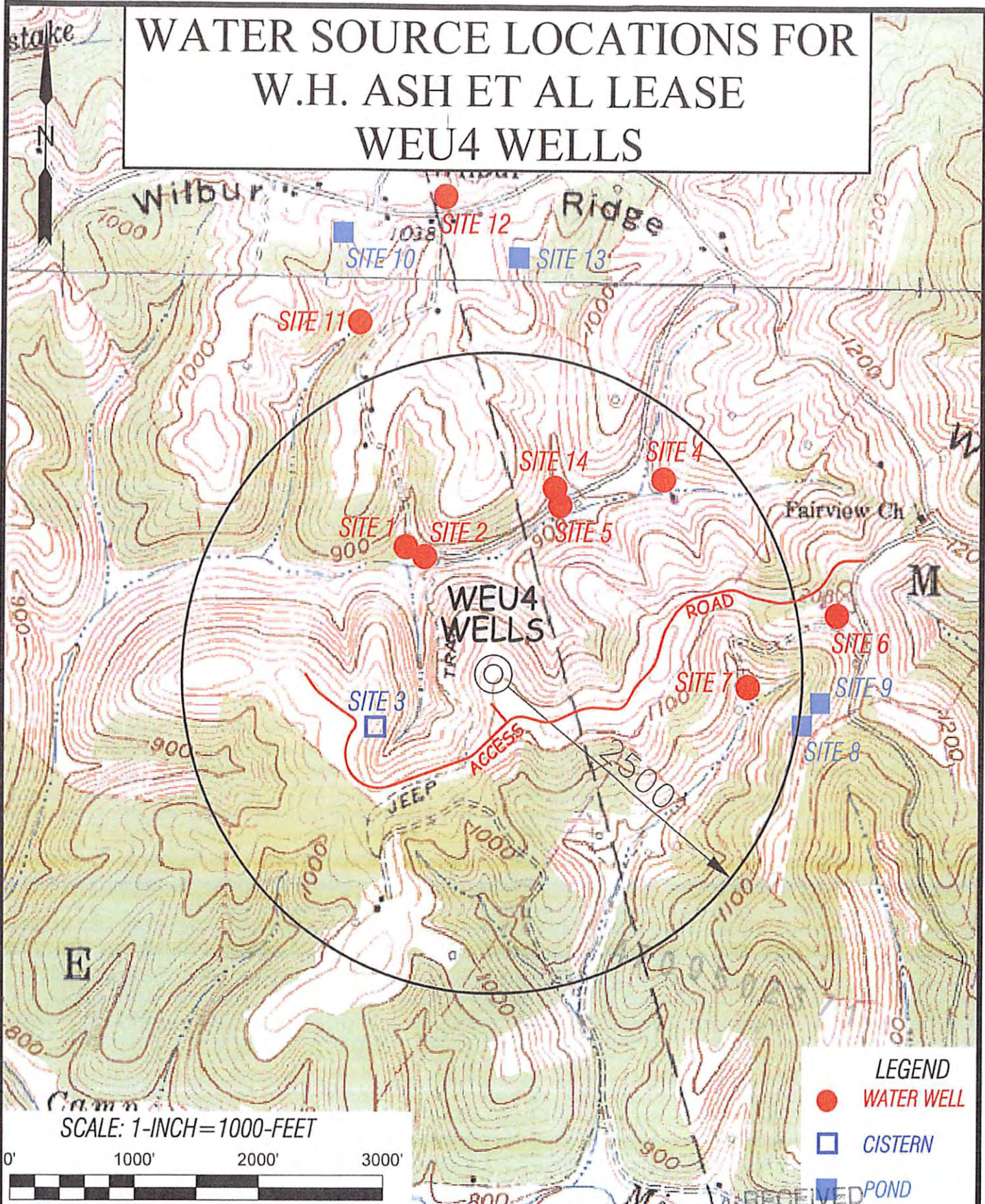


Subscribed and sworn before me this 11 day of May 2016.
Rebecca L. Wanstreet Notary Public
My Commission Expires 4-7-20

470950232

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Office of Oil and Gas
JUN 01 2016
WV Department of Environmental Protection
10/28/2016

WATER SOURCE LOCATIONS FOR W.H. ASH ET AL LEASE WEU4 WELLS



LEGEND

- WATER WELL
- CISTERN
- POND

SCALE: 1-INCH=1000-FEET



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 482-5834
WWW.SLSURVEYS.COM

DRAWN BY: K.D.W.
FILE NO.: 7701
DATE: 05/11/16
CADD FILE: 7701WSWEU4-R.dwg

TOPO SECTION OF:
WEST UNION, WV 7.5' QUAD

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
CENTERVILLE	TYLER	16-22

OPERATOR: **Office of Oil and Gas**
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330

10/28/2016

Surface Owners:

Donna J Peter
733 Ridge Rd
Wilbur WV 26320



7016 0340 0000 8668 3949

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Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage	\$
Sent To	
Street and Apt	
City, State, Zip	

BRIDGEPORT MD
Postmark Here
MAY 31 2016

Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14Permit App and Planned Op

PS Form 380 See Reverse for Instructions

RM

4709502371

Surface Owners(road or other disturbance):

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

L. Bruce and Sandra Jean Stoneking
RR1 Box 304-BB
Elkins WV 26241

James B. and Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241

Diane L. Morgan and Glenn W. Morgan
590 Isner Creek Road
Elkins WV 26241

Richard Metcalf
415 Wildlife Lane
Bric

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
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Total Postage
\$

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Street and Apt
City, State, Zip

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MAY 31 2016

Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage
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Sent To
Street and Apt
City, State, Zip

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BRIDGEPORT WV
MAY 31 2016

James B. and
Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241
WEU4 H14Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 0340 0000 8668 3956

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage
\$

Sent To
Street and Apt
City, State, Zip

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BRIDGEPORT WV
MAY 31 2016

L. Bruce and
Sandra Jean Stoneking
RR1 Box 304-BB
Elkins WV 26241
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
\$

Total Postage
\$

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Street and Apt
City, State, Zip

Postmark Here
BRIDGEPORT WV
MAY 31 2016

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage
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Total Postage
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Sent To
Street and Apt
City, State, Zip

Postmark Here
BRIDGEPORT WV
MAY 31 2016

Diane L. Morgan and
Glenn W. Morgan
590 Isner Creek Road
Elkins WV 26241
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4709502371

10/28/2016

Surface Owners(Pits or impoundments):

Donna J Peter
 733 Ridge Rd
 Wilbur WV 26320

Richard Metcalf
 415 Wildlife Lane
 Bridgeport WV 26330

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage	\$
Sent To	
Street and Apt	
City, State, Zip	

BRIDGEPORT MPC
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 MAY 31 2016

Donna J Peter
 733 Ridge Rd
 Wilbur WV 26320
 WEU4 H14Permit App and Planned Op

PS Form 380

7016 0340 0000 8668 3543

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Post	\$
Sent To	
Street and	
City, State	

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 Postmark Here
 MAY 31 2016

Richard Metcalf
 415 Wildlife Lane
 Bridgeport WV 26330
 WEU4 H14Permit App and Planned Op

PS Form

4709502371

RECEIVED
 Office of Oil and Gas
 JUN 01 2016
 WV Department of
 Environmental Protection

10/28/2016

Coal Owner

Rosemary Brandon
3913 Delaware Avenue
Kenner, LA 70065



7016 0340 0000 8668 4137

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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
\$	
Total Post	
\$	
Sent To	
Street and	
City, State,	

BRIDGEPORT MPO
Postmark Here
MAY 31 2016

Rosemary Brandon
3913 Delaware Avenue
Kenner, LA 70065
WEU4 H14Permit App

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4709502371

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WV Department of
Environmental Protection
10/28/2016

Owners of Water Wells

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

Bruce Stoneking
R.D. 1 Box BB
Elkins WV 26241

Frank and Elizabeth Abruzzino
91 Springhill Chapel Road
Clarksburg, WV 26301

7016 0340 0000 8668 3949

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

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Street and Apt
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BRIDGEPORT MPO
MAY 31 2016

Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

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Total Pos \$

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City, State

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BRIDGEPORT MPO
MAY 31 2016

L. Bruce and
Sandra Jean Stoneking
RR1 Box 304-BB
Elkins WV 26241
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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MAY 31 2016

Frank and Elizabeth Abruzzino
91 Springhill Chapel Road
Clarksburg WV26301
WEU4 H14Permit App

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WV Department of
Environmental 10/28/2016

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 04/09/2016 **Date Permit Application Filed:** 04/19/2016

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: See Attached
Address: _____

Name: See Attached
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 515444.769
County: Tyler Northing: 4357488.399
District: Centerville Public Road Access: WV-18
Quadrangle: West Union Generally used farm name: Donna J. Pater
Watershed: Tributary of Camp Mistake Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: EQT Production Company
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
Facsimile: 304-848-0041

Authorized Representative: Victoria Roark
Address: 115 Professional Place PO Box 280
Bridgeport WV 26330
Telephone: 304-848-0076
Email: vroark@eqt.com
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.

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16/28/2016
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Surface Owners:

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

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Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14/15 Notice of Intent

pw

or Instructions

(Handwritten blue checkmark)

4709502371

Surface Owners(road or other disturbance):

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

L. Bruce and Sandra Jean Stoneking
RR1 Box 304-BB
Elkins WV 26241

James B. and Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241

Diane L. Morgan and Glenn W. Morgan
590 Isner Creek Road
Elkins WV 26241

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330



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Postage	\$	
Total	\$	

Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14/15 Notice of Intent

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Total	\$	

L. Bruce and
Sandra Jean Stoneking
RR1 Box 304-BB
Elkins WV 26241
WEU4 H14/15 Notice of Intent

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Total	\$	

James B. and
Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241
WEU4 H14/15 Notice of Intent

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Diane L. Morgan and
Glenn W. Morgan
590 Isner Creek Road
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Total	\$	

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330
WEU4 H14/15 Notice of Intent

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WV Department of
10/28/2016

for Instructions

Surface Owners(Pits or impoundments):

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330



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Total \$

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Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14/15 Notice of Intent

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Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330
WEU4 H14/15 Notice of Intent

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Environmental Protection

10/28/2016

Owners of Water Wells

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

Bruce Stoneking
R.D. 1 Box BB
Elkins WV 26241

Frank and Elizabeth Abruzzino
91 Springhill Chapel Road
Clarksburg, WV 26301

4709502374

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WV Department of
Environmental Protection 10/28/2016

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 5/31/10 Date Permit Application Filed: 5/31/10

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL
RETURN RECEIPT REQUESTED
- HAND
DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: See Attached
Address: _____

Name: See Attached
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>515444.769</u>
County:	<u>Tyler</u>	Northing:	<u>4357488.399</u>
District:	<u>Centerville</u>	Public Road Access:	<u>WW#18</u>
Quadrangle:	<u>West Union</u>	Generally used farm name:	<u>Donna J. Peter</u>
Watershed:	<u>Tributary of Camp Mistake Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 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.

Surface Owners:

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

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PS Form 380 See reverse for instructions

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Surface Owners(road or other disturbance):

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RR1 Box 304-BB
Elkins WV 26241

James B. and Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241

Diane L. Morgan and Glenn W. Morgan
590 Isner Creek Road
Elkins WV 26241

Richard Metcalf
415 Wildlife Lane
Bri



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 Total Postage \$
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Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14Permit App and Planned Op

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 Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage \$
 Sent To
 Street and Apt
 City, State, Zip

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Postmark Here
MAY 31 2016

James B. and
Brenda J. Stoneking
2 Deerhaven Drive
Wheeling WV 26241
WEU4 H14Notice of Intent

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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 Postage \$
 Total Postage \$
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BRIDGEPORT MPO
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MAY 31 2016

L. Bruce and
Sandra Jean Stoneking
RR1 Box 304-BB
Elkins WV 26241
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage \$
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BRIDGEPORT MPO
Postmark Here
MAY 31 2016

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$
 Postage \$
 Total Postage \$
 Sent To
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 City, State, Zip

BRIDGEPORT MPO
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MAY 31 2016

Diane L. Morgan and
Glenn W. Morgan
590 Isner Creek Road
Elkins WV 26241
WEU4 H14Permit App and Planned Op

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Surface Owners(Pits or impoundments):

Donna J Peter
733 Ridge Rd
Wilbur WV 26320

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330



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Postage
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Total Postage
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Street and Apt
City, State, Zip

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MAY 31 2016

Donna J Peter
733 Ridge Rd
Wilbur WV 26320
WEU4 H14Permit App and Planned Op

PS Form 380

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage
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Total Post
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Street and
City, State

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BRIDGEPORT MPC
MAY 31 2016

Richard Metcalf
415 Wildlife Lane
Bridgeport WV 26330
WEU4 H14Permit App and Planned Op

PS Form

4709502371



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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

Revised September 4, 2015

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 WEU 4 Well Pad, Tyler County

512890 WEU4H1	512891 WEU4H2	512892 WEU4H3
512893 WEU4H4	512894 WEU4H5	512895 WEU4H6
516534 WEU4H7	516535 WEU4H8	516536 WEU4H9
516537 WEU4H10	516538 WEU4H11	516539 WEU4H12
516540 WEU4H13	516600 WEU4H14	516601 WEU4H15

4709502371

Dear Mr. Martin,

This well site will be accessed from DOH Permit #06-2015-0241 issued to EQT Production Company for access to the State Road for a well site located off of Tyler County Route 58 SLS.

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 Oil & Gas Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-6
File

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Office of Oil and Gas

JUN 01 2016

E.E.O./AFFIRMATIVE ACTION EMPLOYER

WV Department of
Environmental Protection 10/28/2016

Anticipated Frac Additives
Chemical Names and CAS numbers

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

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JUN 01 2016

WV Department of Environmental Protection
10/28/2016

Anticipated Frac Additives
Chemical Names and CAS numbers

4709502371

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

DmH
6-7-16

4709502371

JPS
6/7/16

Received
Office of Oil & Gas
 JUL 14 2016

10/28/2016

PROJECT INFORMATION

PROJECT NAME: WEU4

TAX PARCEL: MCELROY AND CENTERVILLE DISTRICTS
TYLER COUNTY, WV
TAX MAP 16 PARCEL 22

SURFACE OWNER: DONNA J. PETER
TOTAL PROPERTY AREA: 113.41 ACRES
TAX MAP 16 PARCEL 22

L.B. & SANDRA STONEKING
TOTAL PROPERTY AREA: 69.444 ACRES
TAX MAP 21 PARCEL 28

RICHARD & YVONNE METCALF
TOTAL PROPERTY AREA: 85.574 ACRES
TM 16-17

Oil AND GAS ROYALTY OWNER: WACO OIL & GAS CO. INC ET AL
WEST UNION DISTRICT
DORRIDGE COUNTY, WV
TOTAL PROPERTY AREA: 152.1 ACRES

SITE LOCATION
THE WEU4 WELL SITE IS SITUATE ON THE WATERS OF CAMP MISTAKE RUN APPROXIMATELY 0.58 MILES WEST OF COUNTY ROUTE 58. THE ENTRANCE IS LOCATED APPROXIMATELY 0.20 MILES SOUTHWEST FROM THE INTERSECTION OF COUNTY ROUTE 62 AND COUNTY ROUTE 58.

LOCATION COORDINATES

WEU4 SITE ENTRANCE
LATITUDE: 39.369729 LONGITUDE: 80.610071 (NAD 83 NORTH)

WEU4 RIG FOOTPRINT
LATITUDE: 39.365718 LONGITUDE: 80.620708 (NAD 83 NORTH)

WEU4 PUMP PAD
LATITUDE: 39.365684 LONGITUDE: 80.620669 (NAD 83 NORTH)

WEU4 FLOWBACK PIT
LATITUDE: 39.365318 LONGITUDE: 80.621110 (NAD 83 NORTH)

WEU4 TRUCK PAD
LATITUDE: 39.364962 LONGITUDE: 80.621587 (NAD 83 NORTH)

WEU4 COMPLETION PIT MANHOLE PAD
LATITUDE: 39.365408 LONGITUDE: 80.624945 (NAD 83 NORTH)

WEU4 COMPLETION PIT
LATITUDE: 39.365884 LONGITUDE: 80.625618 (NAD 83 NORTH)

SITE DISTURBANCE COMPUTATIONS

ACCESS ROAD NO. 1 & NO. 2 = 6.014 ACRES
STOCKPILE SITES 1-6 = 4.282 ACRES
RIG FOOTPRINT = 3.225 ACRES
MANHOLE PAD & FLOWBACK PIT = 2.161 ACRES
COMPLETION PIT = 0.314 ACRES
TOTAL SITE DISTURBANCE = 19.184 ACRES

ENTRANCE PERMIT

EQT PRODUCTION COMPANY WILL OBTAIN AN ENTRANCE PERMIT (FORM MW-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY STATEMENT

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. TICKET #180176251 IN ADDITION MISS UTILITY WILL BE CONTACTED PRIOR TO START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT IS LOCATED IN FEMA FLOOD ZONE X FOR THE FLOOD INSURANCE RATE MAP (FIRM) NUMBER: 540950300C DATED MAY 3, 2010.

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 25-26, 2012 BY POTRYA AND ASSOCIATES, INC TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) THE MAY 29, 2013 REPORT PROJECT # 003-H-187-12761 WAS PREPARED BY POTRYA AND ASSOCIATES, INC. SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE aforementioned AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION DESCRIBED BY THIS REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S. INCLUDING WETLAND FILL AND STREAM CROSSINGS.

HORIZONTAL & VERTICAL CONTROL

COORDINATES AND ELEVATIONS USED FOR ALL LAYOUTS AND DESIGNS WERE BASED UPON MAPPING FURNISHED BY SMITH LAND SURVEYING.

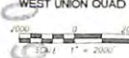
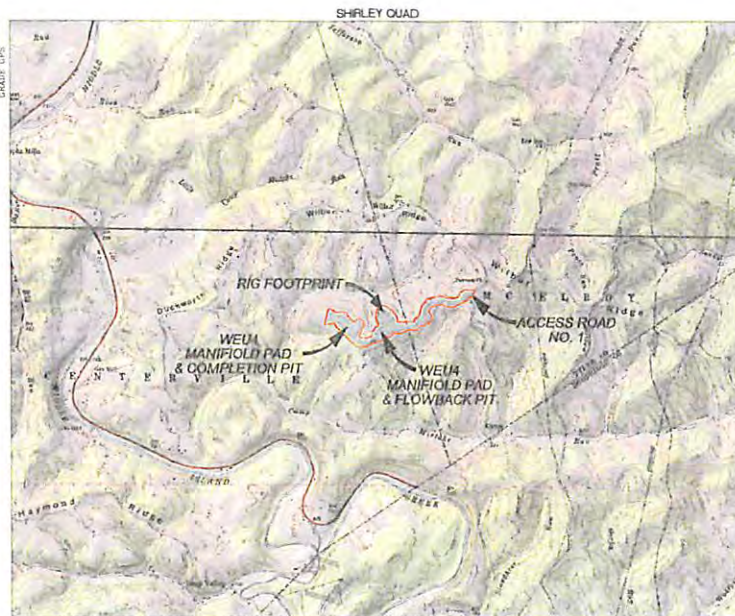
MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV Chapter 24 C)
Requires that you call two
business days before you dig in
the state of West Virginia
IT'S THE LAW!

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Office of Oil & Gas
JUN 14 2016

WEU4 SITE PLAN EQT PRODUCTION COMPANY

SITUATE ON THE WATERS OF CAMP MISTAKE RUN IN
MCELROY AND CENTERVILLE DISTRICTS,
TYLER COUNTY, WEST VIRGINIA

GRID NORTH AND ELEVATIONS
SHOWN HEREIN WERE
OBTAINED FROM
DRAFT GPS



WELL	WV	WELL STATUS	WELL & PAD 80' WELLS LOCATIONS	UTM	NORTHING	EASTING
W1	50990	PROPOSED	47.045 02278	59 32644.1	80 821068	5 8599.42
W2	51884	PROPOSED	47.045 02278	59 32644.1	80 821068	5 8785.42
W3	52892	PROPOSED	47.045 02280	59 32658.8	80 821029	5 8371.42
W4	52893	PROPOSED	47.045 02278	59 32658.8	80 821029	5 8393.42
W5	52894	PROPOSED	47.045 02278	59 32644.1	80 821068	5 8563.42
W6	52895	PROPOSED	47.045 02278	59 32644.1	80 821068	5 8379.42
W7	53635	PROPOSED	47.045 02278	59 32644.1	80 821068	5 8355.42
W8	54555	PROPOSED	47.045 02278	59 32644.1	80 821068	5 8645.58
W9	54557	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8645.58
W10	54558	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W11	54559	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W12	54560	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W13	54561	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W14	54562	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W15	54563	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W16	54564	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W17	54565	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W18	54566	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W19	54567	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78
W20	54568	PROPOSED	47.045 02278	59 32688.2	80 821067	5 8649.78

LIST OF DRAWINGS

- 1 - COVER SHEET
- 2 - NOTES
- 3 - OVERALL SHEET INDEX & VOLUMES
- 4 - EXISTING UTILITY PLAN
- 5-7 - ACCESS ROAD PLAN
- 8 - RIG FOOTPRINT DET.
- 10-11 - FLOWBACK PIT NO. 1 SECTIONS
- 12-13 - FLOWBACK PIT NO. 2 SECTIONS
- 14 - TYPICAL SECTIONS
- 15 - ACCESS ROAD NO. 1 PROFILE
- 16-20 - ACCESS ROAD NO. 1 SECTIONS
- 21 - ACCESS ROAD NO. 1 SECTIONS & ACCESS ROAD NO. 2 PROFILE & SECTIONS
- 22 - ACCESS ROAD COORDINATE LAYOUT
- 23 - 04 TIRESOIL STORAGE AREAS PROFILES & SECTIONS
- 25 - SPOIL STORAGE AREA PROFILE & SECTIONS
- 26 - 09 - WEU4 RECLAMATION PLANS
- 30 - 03 - CONSTRUCTION DETAILS

APPROVED
WVDEP OOG
8 28 2015

DISTURBED AREA BY PROPERTY OWNER	
PROPERTY OWNER	DISTURBED AREA
L.B. & SANDRA STONEKING	0.42 AC
RICHARD & YVONNE METCALF	2.25 AC
DONNA J. PETER	20.08 AC
TOTAL	22.75 AC

Don't
6-7-16

OPERATOR
EQT PRODUCTION COMPANY
OPERATOR ID 306880
115 PROFESSIONAL PLAZA
P.O. BOX 280
BRIDGEPORT, WV 26330
PHONE: (204) 348 3870

ENGINEER
RKAK ENGINEERS
242 NORTH TORNADO WAY
SUITE 1
KEYSER, WV 26726
PHONE: (304) 766 3370

SURVEYOR
SMITH LAND SURVEYING, INC
12 VANHORN DRIVE
P.O. BOX 150
GLENVIEW, WV 26331
PHONE: (304) 462 5614

Professional Energy Consultants
SURVEYING
ENGINEERING
PROJECT MGMT
WWW.BLSURVYING.COM

RKAK ENGINEERS

RAHBE, KLEPPER & HILL LLP
140 NORTH TORNADO WAY, SUITE 1
KEYSER, WEST VIRGINIA 26726
PHONE: (304) 766 3370 FAX: (304) 766 3371

Professional Energy Consultants
SURVEYING
ENGINEERING
PROJECT MGMT
WWW.BLSURVYING.COM

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TYLER COUNTY, WV

COVER SHEET
WEU4
MCELROY DISTRICT
CENTERVILLE DISTRICT
TYLER COUNTY WV

DATE: 04/30/2015
SCALE: 1" = 2000'
DESIGNED BY: HWK
FILE NO.: 208
SHEET 1 OF 33
REV: 08/25/2015

4709502371

WEU-4 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

PERMITTED WELLS: API# 47-095-02278, 47-095-002279, 47-095-02280, 47-095-02281,
47-095-02316, 47-095-02317, 47-095-02318 AND 47-095-02343
PROPOSED WELL NUMBERS: H6-WV512895, H8-WV516535, H9-WV516536,
H11-WV516538, H13-WV516540, H14-WV516600 AND H15-WV516601

SITUATE ON WATERS OF CAMP MISTAKE RUN IN MCELROY AND CENTER DISTRICTS,
TYLER COUNTY, WEST VIRGINIA

LIST OF DRAWINGS

1. COVER SHEET
2. INDEX SHEET
3. WEU-4 ACCESS ROAD
4. WEU-4 FLOWBACK PIT / PAD
5. WEU-4 ACQUISITION PIT / STOCKPILE
6. ACCESS ROAD PROFILE
7. ACCESS ROAD PROFILE, FLOWBACK PIT AND COMPLETION PIT PROFILES

PROJECT INFORMATION

PROJECT NAME: WEU-4 AS-BUILT SITE PLAN

TAX PARCEL:
CENTERVILLE DISTRICT
MAP 16
MCELROY DISTRICT
MAP 21

SURFACE OWNER
L. B. & SANDRA STORCKEN
MCELROY DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 19.44 ACRES

DONNA J. PETER
MCELROY & CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 113.41 ACRES

RICHARD & YVONNE METCALF
CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 61.51 ACRES

OIL AND GAS ROYALTY OWNER
WACO OIL & GAS COMPANY, INC. ET AL
CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 152 ACRES

SITE LOCATION
THE WEU-4 SITE IS NORTH OF CAMP MISTAKE OFF COUNTY ROUTE 58. THE
ENTRANCE TO THE SITE IS APPROXIMATELY 0.13 MILE SOUTH-WEST OF COUNTY
ROUTE 58 AND COUNTY ROUTE 602 INTERSECTION.

LOCATION COORDINATES

WEU-4 SITE ENTRANCE
LATITUDE: 39.269773 | LONGITUDE: -80.810214 (NAD 83)
LATITUDE: 4.357172 | LONGITUDE: 516.303 (UTM NAD 83 METERS)

WEU-4 CENTER OF WELL PAD
LATITUDE: 39.268539 | LONGITUDE: -80.820845 (NAD 83)
LATITUDE: 4.357477 | LONGITUDE: 515.448 (UTM NAD 83 METERS)

WEU-4 FLOW CENTER OF FLOWBACK PIT
LATITUDE: 39.262049 | LONGITUDE: -80.821021 (NAD 83)
LATITUDE: 4.357350 | LONGITUDE: 515.433 (UTM NAD 83 METERS)

WEU-4 FLOW CENTER OF COMPLETION PIT
LATITUDE: 39.262001 | LONGITUDE: -80.821712 (NAD 83)
LATITUDE: 4.357406 | LONGITUDE: 515.524 (UTM NAD 83 METERS)

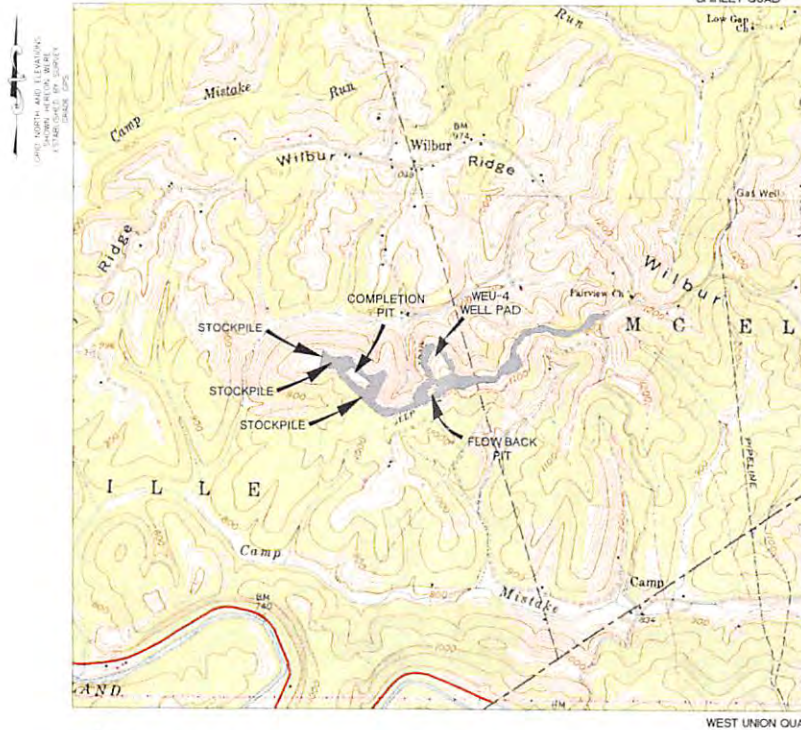
SITE DISTURBANCE COMPUTATIONS

TOTAL AS-BUILT DISTURBANCE = 35.81 ACRES

GENERAL DESCRIPTION

THE WEU-4 PAD AND PITS ARE BEING CONSTRUCTED TO ADD IN THE DEVELOPMENT
OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

LOCATION MAP



LEGEND	
---	LIMITS OF DISTURBANCE
---	COMPLETION PIT PERIMETER
---	AS-BUILT LOD
---	EX ROAD EDGE OF GRAVEL DIRT
---	EX ROAD EDGE OF PAVEMENT
---	EX ROAD CENTERLINE
---	EX DITCHLINE
---	EX CURB/ST
---	EX FENCELINE
---	EX GATE
---	EX OVERHEAD UTILITY
---	EX OVERHEAD UTILITY R.W.
---	EX POWER POLE
---	EX GUY WIRE
---	EX TELEPHONE LINE
---	EX GASLINE
---	EX GASLINE R.W.
---	EX WATERLINE
---	EX STRUCTURE
---	EX PIPELINE MARKER
---	EX SIGNPOST
---	EDGE OF GRAVEL PAD
---	EDGE OF BEAM
---	EX SUPER SILT FENCE
---	EX REINFORCED SILT FENCE
---	TOP BERM
---	GRAVEL
---	RCP RAMP
---	ORIGINAL GROUND ± CONTOURS
---	AS-BUILT ± CONTOURS
---	WELL NUMBER & LOCATION
---	AS-BUILT WELL LOCATIONS
---	PROPOSED WELL LOCATIONS
---	SPOT ELEVATIONS
---	MATCHLINE

SEB
6/2/16

DMH
6-2-16
4709502371

REV	DATE	DESCRIPTION	BY
1	5/10/16	ADDED TYPICAL CELLAR DETAIL ADDED WELL INFORMATION	K.E.S.
<p>THIS DOCUMENT WAS PREPARED BY S.M.H. LAND SURVEYING, INC. FOR EQT.</p>			
<p>WEU-4 AS-BUILT SITE PLAN</p> <p>THIS DOCUMENT WAS PREPARED BY S.M.H. LAND SURVEYING, INC. FOR EQT PRODUCTION COMPANY.</p>			
DATE: 03-02-2016			
EQT			
SCALE: 1" = 1000'			
DESIGNED BY: K.E.S.			
FILE NO: 7701			
SHEET 1 OF 7			
<p>5/16 1701 WEU-4 AS-BUILT SITE PLAN</p>			

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!

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4709502371

**WVDEP 00G
ACCEPTED AS-BUILT**

WVJ 4/4/2016

WEU-4 AS-BUILT SITE PLAN EQT PRODUCTION COMPANY

PERMITTED WELLS: API# 47-095-02278, 47-095-002279, 47-095-02280, 47-095-02281,
47-095-02316, 47-095-02317 AND 47-095-02318

PROPOSED WELL NUMBERS: H6-WV512894, H6-WV512895, H8-WV516535,
H9-WV516536, H11-WV516538, H13-WV516540, H14-WV516600 AND H15-WV516601

SITUATE ON WATERS OF CAMP MISTAKE RUN IN MCELROY AND CENTER DISTRICTS,
TYLER COUNTY, WEST VIRGINIA

LIST OF DRAWINGS

- 1 COVER SHEET
- 2 INDEX SHEET
- 3 WELLS ACCESS ROAD
- 4 WELLS FLOWBACK PIT PAD
- 5 WELLS COMPLETION PIT STOCKPILE
- 6 ACCESS ROAD PROFILE
- 7 ACCESS ROAD PROFILE, FLOWBACK PIT AND COMPLETION PIT PROFILES

PROJECT INFORMATION

PROJECT NAME: WELLS AS-BUILT SITE PLAN

TAX PARCEL:
CENTERVILLE DISTRICT
MAP 18
MCELROY DISTRICT
MAP 21

SURFACE OWNER

G. B. & SANDRA STONER INC.
MCELROY DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 39.44 ACRES

CONNIE J. PETER
MCELROY & CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 111.41 ACRES

RICHARD & YVONNE MITCHELL
CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 81.57 ACRES

OIL AND GAS ROYALTY OWNER

WACO OIL & GAS COMPANY, INC. ET AL.
CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 152 ACRES

SITE LOCATION

THE WELLS SITE IS NORTH OF CAMP MISTAKE OFF COUNTY ROUTE 58 THE
ENTRANCE TO THE SITE IS APPROXIMATELY 0.7 MILES SOUTHWEST OF COUNTY
ROUTE 58 AND COUNTY ROUTE 600 INTERSECTION

LOCATION COORDINATES

WELLS SITE ENTRANCE
LATITUDE: 39.58173 LONGITUDE: 80.87524 (NAD 83)
LATITUDE: 4357772 LONGITUDE: 516363 (UTM NAD 83 METERS)

WELLS CENTER OF WELL PAD
LATITUDE: 39.58976 LONGITUDE: 80.82285 (NAD 83)
LATITUDE: 4357871 LONGITUDE: 515448 (UTM NAD 83 METERS)

WELLS FLOW CENTER OF FLOWBACK PIT
LATITUDE: 39.58395 LONGITUDE: 80.82021 (NAD 83)
LATITUDE: 4357855 LONGITUDE: 515433 (UTM NAD 83 METERS)

WELLS FLOW CENTER OF COMPLETION PIT
LATITUDE: 39.58321 LONGITUDE: 80.82072 (NAD 83)
LATITUDE: 4357848 LONGITUDE: 515424 (UTM NAD 83 METERS)

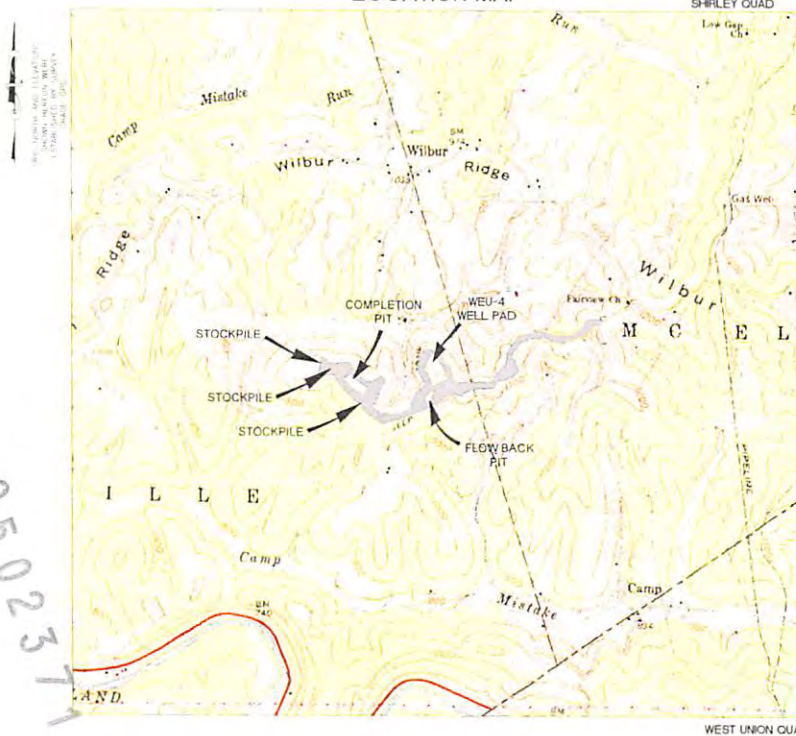
SITE DISTURBANCE COMPUTATIONS

TOTAL AS-BUILT DISTURBANCE: 1.96 ACRES

GENERAL DESCRIPTION

THE WELLS PAD AND PITS ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT
OF INDIVIDUAL MARCELLUS SHALE GAS WELLS

LOCATION MAP



47-095-02317

DMH 4/4/16

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Office of Oil & Gas

JUN 14 2016



MSB Utility of West Virginia
1-800-245-4848
West Virginia State Law
Section 20-V, Chapter 24-C
Requires that you call two business
days before you dig in the State of
West Virginia
MSB Utility



THIS DOCUMENT WAS
PREPARED BY
SHEILA SARGENT
REGISTERED PROFESSIONAL ENGINEER
NO. 15578
STATE OF WEST VIRGINIA



WEU-4
AS-BUILT SITE PLAN

DATE: 03-02-2016
BY: [Signature]
SCALE: 1" = 500'
DESIGNED BY: KES
FILE NO: 2701
SHEET 1 OF 7

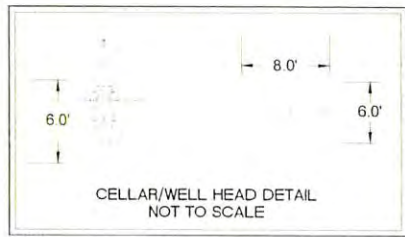
47-095-02371



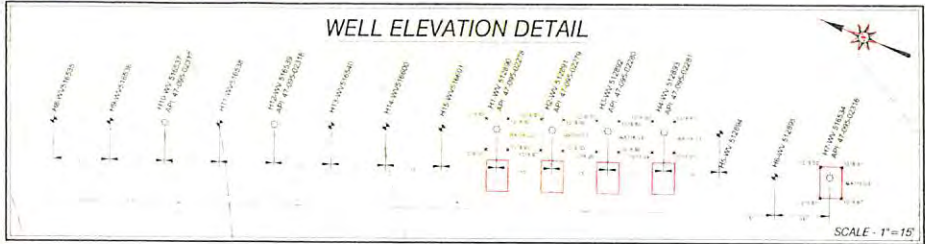
WEU-4 AS BUILT SITE PLAN

SITUATE ON WATERS OF CAMP MISTAKE RUN IN MCELROY AND
CENTER DISTRICTS, TYLER COUNTY, WEST VIRGINIA

**WVDEP OOG
ACCEPTED AS-BUILT**
4/4/2016



L B & SANDRA
STONEKING
42.86 ACRES

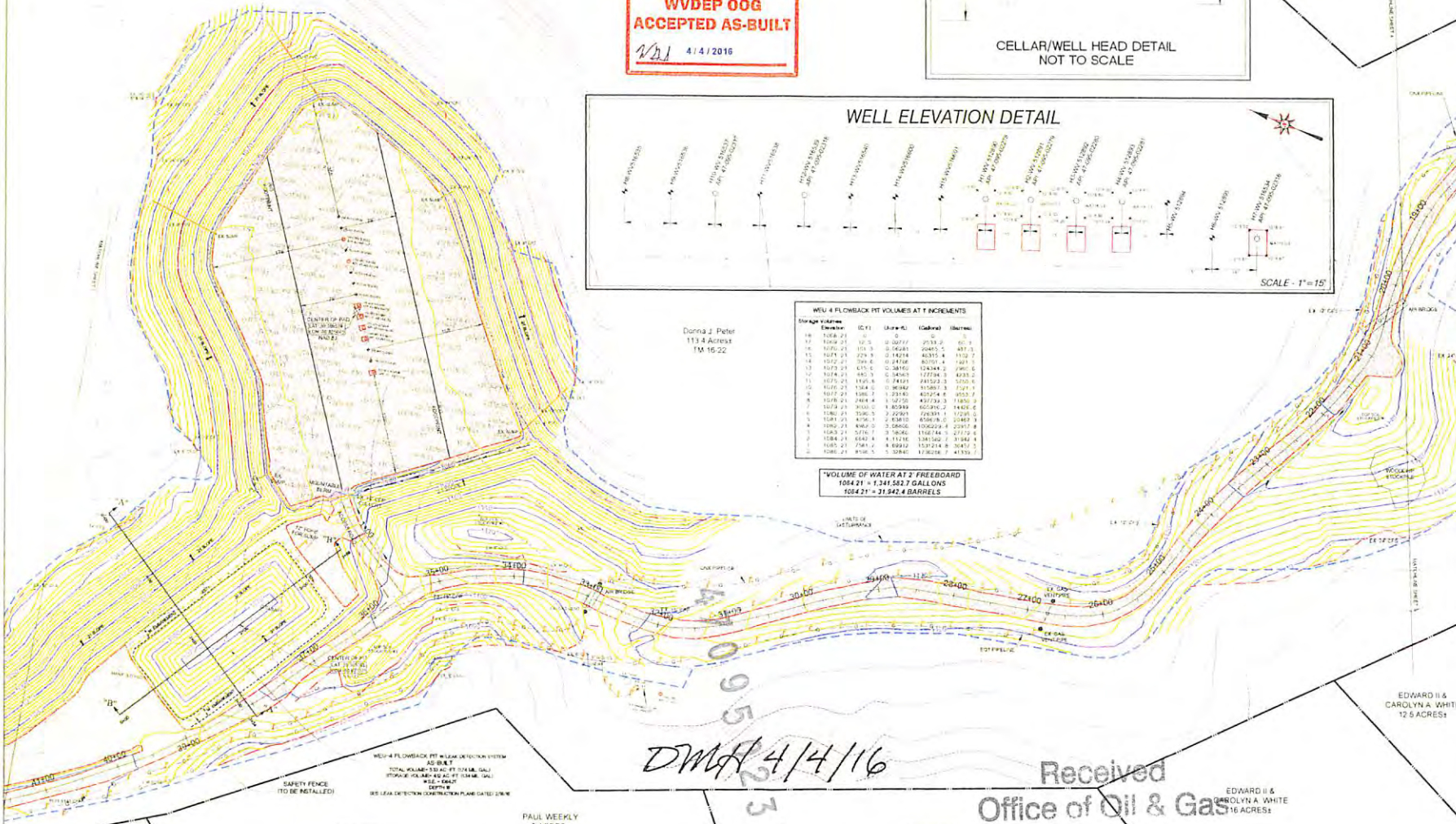


WEU-4 FLOWBACK FT VOLUMES AT 1 INCREMENTS

Storage Volume	Elevation	(CY)	(Cub-ft)	(Gallon)	(Metric)
1	1084.21	0	0	0	0
2	1084.21	107.3	36,977.7	2933.2	60.7
3	1084.21	103.3	33,623.8	2685.5	55.7
4	1079.21	229.3	74,874.8	5990.4	133.2
5	1074.21	355.3	111,125.8	8905.4	199.1
6	1069.21	481.3	147,376.8	11810.4	266.4
7	1064.21	607.3	183,627.8	14715.4	325.2
8	1059.21	733.3	219,878.8	17620.4	384.5
9	1054.21	859.3	256,129.8	20525.4	443.8
10	1049.21	985.3	292,380.8	23430.4	503.1
11	1044.21	1111.3	328,631.8	26335.4	562.4
12	1039.21	1237.3	364,882.8	29240.4	621.7
13	1034.21	1363.3	401,133.8	32145.4	681.0
14	1029.21	1489.3	437,384.8	35050.4	740.3
15	1024.21	1615.3	473,635.8	37955.4	799.6
16	1019.21	1741.3	509,886.8	40860.4	858.9
17	1014.21	1867.3	546,137.8	43765.4	918.2
18	1009.21	1993.3	582,388.8	46670.4	977.5
19	1004.21	2119.3	618,639.8	49575.4	1036.8
20	1004.21	2119.3	618,639.8	49575.4	1036.8

Donna J Peter
113.4 Acres
TM 16-22

VOLUME OF WATER AT 2' FREEBOARD
1084.21 = 1,341,582.7 GALLONS
1084.21 = 31,842.8 BARRELS



WEU-4 FLOWBACK PIT W/ LEAK DETECTION SYSTEM
AD 80-7
TOTAL VOLUME: 533 AC. FT 1734.8 GAL
STORAGE: 10.8 AC. FT 3734.8 GAL
PIT - 8' DIA
DEPTH - 5'
SEE LEAK DETECTION CONSTRUCTION PLAN SHEET 010-1

SAFETY FENCE
(TO BE INSTALLED)

PAUL WEEKLY
5 ACRES

PAUL WEEKLY
18 ACRES

EDWARD II &
CAROLYN A. WHITE
12.6 ACRES

Chris A Baum ET AL
56.84 Acres
TM 16-23

SURVEY NOTE
1. THE CERTIFICATION OF THIS DRAWING APPLIES
ONLY TO THE TOPOGRAPHIC MAPPING AS GENERATED
FROM THE FIELD DATA OBTAINED AT THE TIME OF THE
FIELD SURVEY ON 11/17/15, 11/18/15, 12/17/15, 12/18/15,
12/19/15, 12/20/15, 12/21/15, 12/22/15 & 12/23/15

DMW 4/4/16

371

Received
Office of Oil & Gas
EDWARD II &
CAROLYN A. WHITE
16 ACRES

JUN 14 2016

SCALE
1 INCH = 60 FEET

DATE: 03/02/2016
BY: EQT
SCALE: 1" = 60'
DESIGNED BY: KJS
FILE NO: 7701
SHEET 8 OF 7
TYPED BY: WEA-4

THESE DOCUMENTS ARE PREPARED BY SLS AND SUBMITTED TO EQG, EQT.

SLS
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