



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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Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, August 3, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for WEU4H15
47-095-02513-00-00

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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: WEU4H15
Farm Name: DONNA J. PETER
U.S. WELL NUMBER: 47-095-02513-00-00
Horizontal 6A New Drill
Date Issued: 8/3/2018

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

11. 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.

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: WEU4H15 Well Pad Name: WEU4

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

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

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):

Target formation is Marcellus at a depth of 6680' with the anticipated thickness to 54 feet and anticipated target pressure of 2747 PSI

8) Proposed Total Vertical Depth: 6680

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14609

11) Proposed Horizontal Leg Length: 6750

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	26	New	A-500	85.6	40	40	49 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	750	750	728 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	P-110	40	2865	2865	1126 ft ³ / CTS
Production	5 1/2	New	P-110	20	14609	14609	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							

DWH 7-31-18 *JEB 7/31/2018*

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	26	30	.312	1378	18	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	6320	Class H	1.07
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

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 3700'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

DATE 7-31-18 *JOB 7/31/2018*

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 0.1%) of chemicals (including 15% Hydrochloric acid, 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 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of proppant 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)
 Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries. 0.25% flake. Loss Circulation Material (LCM) .6% Super FL-300 (fluid loss/lengthens thickening time)
 Production:
 Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix) .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
 Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) 2% SEC-10 (Fluid loss). 2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % 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.

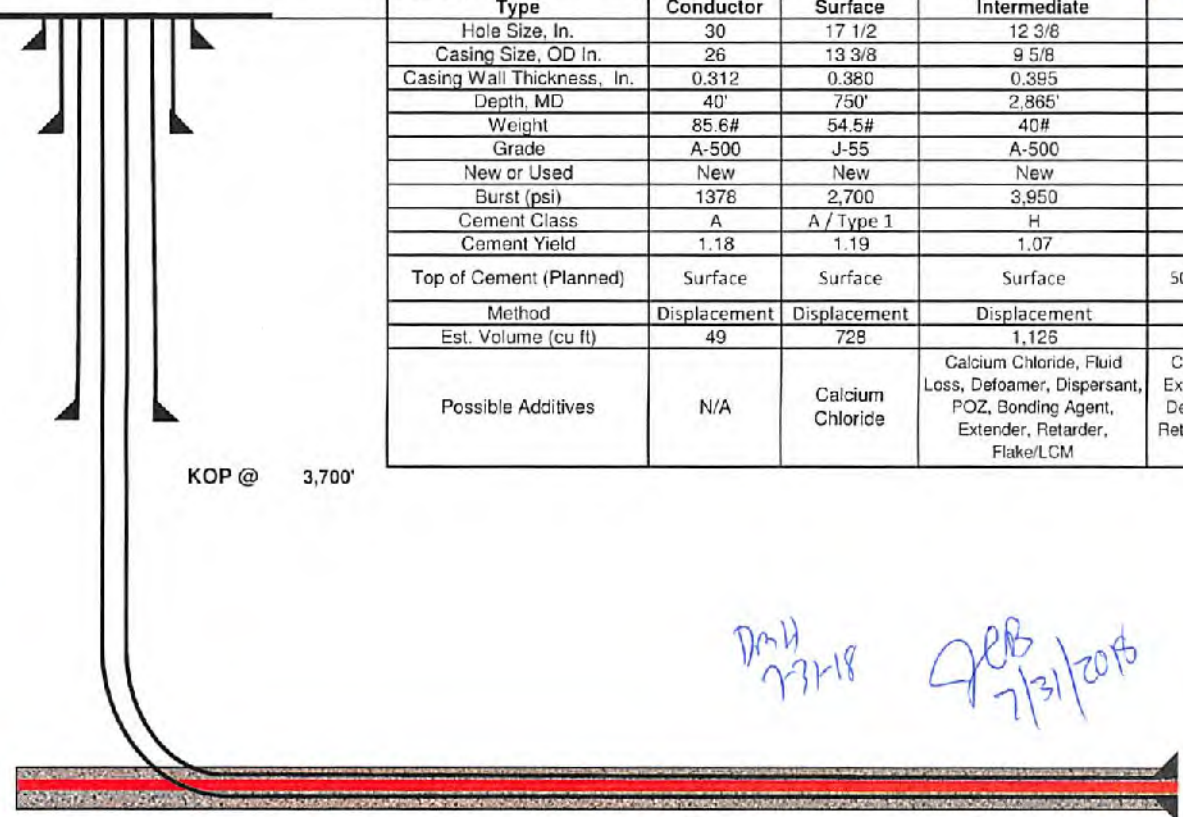
*Note: Attach additional sheets as needed.

Well (WEU4H15)
EQT Production
West Union Quad
Tyler County, WV

Azimuth 336.8
 Vertical Section 6823
 Enerzia # 516601

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	
Genesee	6570 - 6605	
Tully	6605 - 6626	
Hamilton	6626 - 6649	
Marcellus	6649 - 6702	
Production Casing	14609 MD	
Onondaga	6702	



Casing and Cementing				Deepest Fresh Water: 204'
Type	Conductor	Surface	Intermediate	Production
Hole Size, In.	30	17 1/2	12 3/8	8 1/2
Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
Depth, MD	40'	750'	2,865'	14,609'
Weight	85.6#	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	A / H
Cement Yield	1.18	1.19	1.07	1.123 / 2.098
Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Method	Displacement	Displacement	Displacement	Displacement
Est. Volume (cu ft)	49	728	1,126	2,646
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

DMH 7/31/18 *JEB 7/31/2018*

Land curve @ 6,680' TVD 7,859' MD Est. TD @ 6,680' TVD 14,609' MD

Proposed Well Work:
 Drill and complete a new horizontal well in the Marcellus formation.
 Drill the vertical to an approximate depth of 3700'.
 Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

6,750' Lateral

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

4/01/18

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08/03/2018

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 **WEU4 pad: WEU4H5, WEU4H6, WEU4H10, WEU4H11, WEU4H12, WEU4H13, WEU4H14, WEU4H15.**

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A.**

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

EQT will recommend to these operators at a minimum to:

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

2. Reporting

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

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Page 2 of 2
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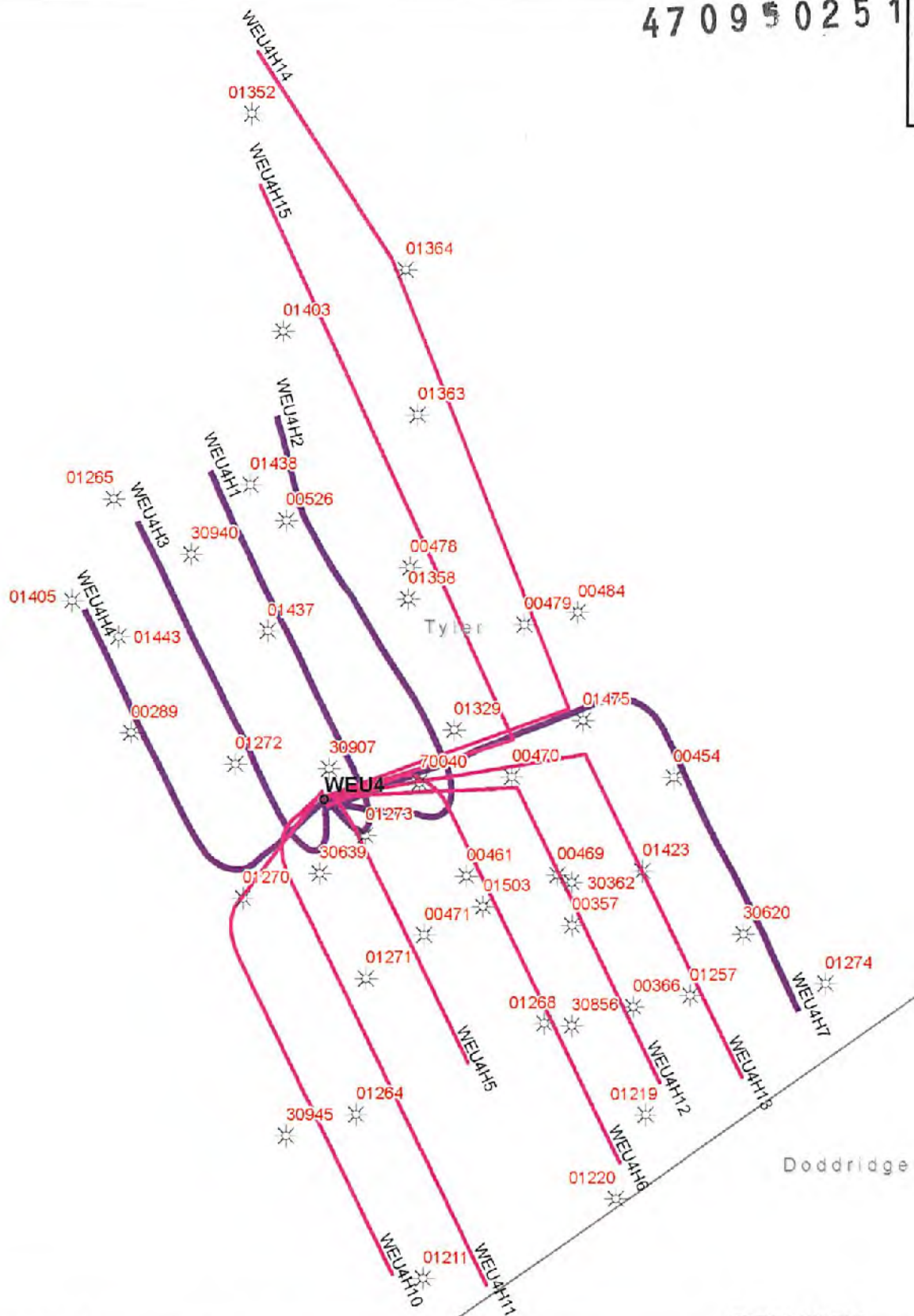
08/03/2018

API Number	Abandoned Date	Completion Date	Current Operator	Elevation	Elevation Refere	Final Status	Lat	Long	Well Name	Permit Date	SPUD Date	TD Formation	Total Depth	Permit
47095309070000	11/8/1959	2/16/1902	HOPE NATURAL GAS			UNKWN	39.3675	-80.8207	406 J L ASH 1	1/2/1902	1/17/1902			30907
47095303620000	9/2/1944	12/6/1910	HOPE NATURAL GAS	1022	GR	ABD-GW	39.3640	-80.8112	1963 HAMMETT HEIRS 1	10/10/1910	10/25/1910	HURON LOWER	2661	30362
47095306200000	4/27/1950	3/10/1911	HOPE NATURAL GAS	905	GR	ABD-GW	39.3624	-80.8044	2085 E M B KEYS	12/28/1910	1/12/1911	GORDON	2565	30620
47095308560000	5/19/1955	6/20/1911	HOPE NATURAL GAS	968	GR	ABD-GW	39.3596	-80.8112	2202 JACOB C SMITH	5/4/1911	5/19/1911	POCONO	2091	30856
47095306390000	6/14/1950	8/12/1911	HOPE NATURAL GAS	956	GR	ABD-GW	39.3643	-80.8211	2261 S M JONES	6/2/1911	6/17/1911	POCONO	1999	30639
47095004540000	10/28/1949	6/27/1913	HOPE NATURAL GAS	1007	GR	ABD-GW	39.3672	-80.8072	2958 HATTIE B KEYS	5/1/1913	5/16/1913	HURON LOWER	2886	00454
47095309450000	12/7/1968	5/21/1914	CONSOLIDATED GAS SUPPLY CORPORATION			UNKWN	39.3563	-80.8224	3420 KEYS HEIRS	4/6/1914	4/21/1914			30945
47095002890000	10/24/1962	6/18/1960	STONESTREET LANDS	830	GR	ABDOGW	39.3686	-80.8285	1 J L ASH	5/10/1960	5/25/1960	BIG INJUN /SD/	1908	00289
47095003570000	10/23/1974	9/1/1962	LENNOX OIL & GAS	947	GR	ABD-GW	39.3627	-80.8112	2 W A BRITTON	7/18/1962	8/2/1962	POCONO	2010	00357
47095004610001		9/21/1973	EQUITABLE GAS COMPANY	919	GR	SWDOP	39.3642	-80.8153	5488/1 LUCY DAVIS	8/10/1973	8/20/1973	DEVONIAN /SD/	2556	00461
47095004700001		8/28/1974	EQUITABLE GAS COMPANY	1027	GR	GSTGW	39.3672	-80.8135	1 LUCY DAVIS	3/24/1974	4/3/1974	GORDON	2657	00470
47095004690001		1/17/1975	EQUITABLE GAS COMPANY	999	GR	SWDOP	39.3642	-80.8117	5491 CARL PERKINS	6/2/1974	6/12/1974	DEVONIAN /SD/	2659	00469
47095004710001		8/26/1975	EQUITABLE GAS COMPANY	933	GR	SWDOP	39.3624	-80.8169	5495 R E MOORE	8/2/1974	8/12/1974	GORDON /SD/	2576	00471
47095003660001		3/19/1975	EQUITABLE GAS COMPANY	914	KB	SWDOP	39.3602	-80.8087	3/5493/ CARL PERKINS	9/9/1974	9/19/1974	MISSISSIPPIAN	1942	00366
47095004780000		9/1/1976	EQUITABLE GAS COMPANY	1049	GR	GAS	39.3736	-80.8175	6229 CARRIE ROBINSON	7/18/1976	8/2/1976	BIG INJUN /SD/	2126	00478
47095004790000		7/1/1977	EQUITABLE GAS COMPANY	1010	GR	GSTG	39.3718	-80.8130	5503 ADDIE KEYS	5/17/1977	6/1/1977	GANTZ /SD/	2417	00479
47095005260000		4/23/1980	EQUITABLE GAS COMPANY	1045	GR	GSTG	39.3750	-80.8224	5507 B W PIESON	8/2/1979	8/17/1979	POCONO	2170	00526
47095012110000		10/10/1987	CONSOL GAS COMPANY	970	KB	GAS	39.3519	-80.8170	2 KEYS AUSTIN I	9/16/1987	9/26/1987	DEVONIAN /SH/	5150	01211
47095012190000		12/14/1987	CONSOL GAS COMPANY	937	KB	GAS	39.3569	-80.8082	1 BAGLEY W M	11/15/1987	11/25/1987	DEVONIAN /SH/	5020	01219
47095012200000		1/7/1988	CONSOL GAS COMPANY	827	KB	GAS	39.3543	-80.8094	1 MORRIS BURKE	12/18/1987	12/28/1987	DEVONIAN /SH/	4916	01220
47095012570000		10/24/1988	CONSOL GAS COMPANY	1030	KB	2GAS	39.3605	-80.8065	1 FREEMAN	10/8/1988	10/18/1988	DEVONIAN /SD/	5150	01257
47095012650000		11/8/1988	CONSOL GAS COMPANY	993	KB	GAS	39.3757	-80.8292	1 DAVIS GARY W	10/15/1988	10/25/1988	DEVONIAN /SD/	4992	01265
47095012640000		11/15/1988	CONSOL GAS COMPANY	936	KB	GAS	39.3569	-80.8196	2 KEYS AMOS	10/22/1988	11/1/1988	DEVONIAN /SD/	5022	01264
47095012720000		2/2/1989	CONSOL GAS COMPANY	1024	KB	GAS	39.3676	-80.8244	2 ASH HENRY & WILLIAM	1/10/1989	1/20/1989	DEVONIAN /SD/	5200	01272
47095012710000		2/11/1989	CONSOL GAS COMPANY	953	KB	GAS	39.3611	-80.8192	1 LORKOVICH LEONA	1/17/1989	1/27/1989	DEVONIAN /SD/	5102	01271
47095012730000		2/17/1989	CONSOL GAS COMPANY	1130	KB	GAS	39.3654	-80.8193	3 ASH HENRY & WILLIAM	1/23/1989	2/2/1989	DEVONIAN /SD/	5300	01273
47095012700000		2/23/1989	CONSOL GAS COMPANY	1072	KB	GAS	39.3635	-80.8241	1 SMITH WILLIAM	1/29/1989	2/8/1989	DEVONIAN /SD/	5200	01270
47095012680000		2/26/1989	CONSOL GAS COMPANY	1020	KB	GAS	39.3597	-80.8122	1 CUMBERLEDGE ASIA DELL	2/3/1989	2/13/1989	DEVONIAN /SD/	5100	01268
47095013290000		12/9/1989	CONSOL GAS COMPANY	1086	KB	GAS	39.3686	-80.8158	1 STONEKING L B	11/7/1989	11/17/1989	BENSON /SD/	5200	01329
47095013580000		1/25/1990	CONSOL GAS COMPANY	1034	KB	GAS	39.3726	-80.8176	2 KEYS ADDIE	12/20/1989	12/30/1989	DEVONIAN /SD/	5100	01358
47095013630000		1/30/1990	CONSOL GAS COMPANY	1107	KB	GAS	39.3782	-80.8172	1 ANN FAYE	12/30/1989	1/9/1990	DEVONIAN /SD/	5190	01363
47095014050000		8/1/1990	ALLIANCE PETROLEUM CORPORATION	986	KB	GAS	39.3726	-80.8308	1-A NICHOLS/DAVIS	7/9/1990	7/19/1990	BEREA	2136	01405
47095014030000		8/17/1990	CONSOL GAS COMPANY	1008	KB	GAS	39.3808	-80.8225	2 LEGRANDE MARVIN	7/23/1990	8/2/1990	DEVONIAN /SH/	5210	01403
47095014230000		9/7/1990	CONSOL GAS COMPANY	1166	KB	GAS	39.3643	-80.8084	1 SINGER	8/15/1990	8/25/1990	DEVONIAN /SD/	5225	01423
47095013640000		9/26/1990	CONSOL GAS COMPANY	1065	KB	GAS	39.3826	-80.8177	2 ANN FAYE	9/1/1990	9/11/1990	DEVONIAN /SD/	5200	01364
47095014370000		12/11/1990	CONSOL GAS COMPANY	982	KB	GAS	39.3716	-80.8231	1 DOAK CLARA ETAL & SMITH	10/23/1990	11/2/1990	DEVONIAN /SD/	5100	01437
47095014430000		1/2/1991	CONSOL GAS COMPANY	1054	KB	GAS	39.3715	-80.8290	CONRAD1 DAVIS FANNY ETAL	11/22/1990	12/2/1990	DEVONIAN /SD/	5150	01443
47095014380000		1/3/1991	CONSOL GAS COMPANY	1004	KB	GAS	39.3761	-80.8238	2 DOAK CLARA ETAL & SMITH	11/29/1990	12/9/1990	DEVONIAN /SD/	5100	01438
47095012740000		2/1/1991	CONSOL GAS COMPANY	1038	KB	GAS	39.3609	-80.8012	1 WEEKLEY ISAIAH	12/24/1990	1/3/1991	DEVONIAN /SD/	5100	01274
47095014750000		6/11/1992	CONSOL GAS COMPANY	1192	KB	GAS	39.3689	-80.8107	1 STONEKING BRUCE	5/10/1992	5/20/1992	DEVONIAN /SD/	5284	01475
47095015030000		12/8/1992	CONSOL GAS COMPANY	998	GR	GAS	39.3633	-80.8146	1 PURSLEY A A	10/4/1992	10/14/1992	DEVONIAN /SD/	5100	01503
47095309400000	7/5/1966		HOPE NATURAL GAS			PSEUDO	39.3740	-80.8261	1489 BOWERS & DAVIS					30940
47095700400000			CARTER OIL COMPANY			PSEUDO	39.3670	-80.8171	1 J L ASH					70040
4709500484		7/20/1977	EPC	1137	GR	STORAGE	39.3722	-80.8109					2226	00484
4709501352		12/1/1989	ANVIL OIL	1096	GR	GAS	39.3874	-80.8237					5170	01352

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 Office of Oil and Gas
 MAY 09 2018
 WV Department of
 Environmental Protection

4709502513

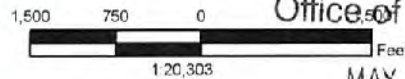
47 09 5 025 13



EQT EQT Corporation
825 Liberty Avenue
Pittsburgh, PA 15222

✱ Vertical Offsets

SPUD
— MR
Planned Lateral
— Marcellus



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 well, pipeline, 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.

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08/03/2018

WEU4
Vertical Offsets and Foreign Laterals within 500'

Created By: Kelvin Walman Printed By: waltrank 2/2/2018
 Path: \\Mdtfs02\shared\GIS_Documents\GIS_Users\Walman\4092\Fossil_Walman\Map.mxd



4709502513

May 4, 2018

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

Re: Casing plan on Wells (WEU4)

Dear Mr. Smith,

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

If you have any questions, please do not hesitate to contact me at (304) 848-0035.

Sincerely,

A handwritten signature in blue ink that reads "Rebecca Wanstreet".

Rebecca Wanstreet
Landman I

Enc.

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Environmental Protection



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 "I" 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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08/03/2018



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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08/03/2018

95-02513

WW-9
(4/16)

API Number 47 - 95 - _____
Operator's Well No. WEU4H15

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306886

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 _____)

JCB
5/14/2018
DH
5/14/18

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 *Erin Spine*

Company Official (Typed Name) Erin Spine

Company Official Title Regional Land Supervisor

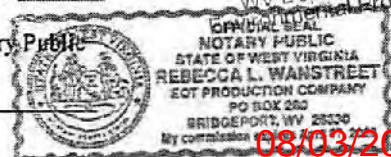
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MAY 18 2018

Subscribed and sworn before me this 4 day of May, 2018

Rebecca L. Wanstreet

Notary Public



My commission expires 4-7-2020

08/03/2018

WW-9 Attachment

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

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

Additives to be used in drilling medium?

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

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Form WW-9

Operator's Well No. WEU4H15

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		

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: Oil & Gas Inspector

Date: 5/14/2018

Field Reviewed? Yes No

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Where energy meets innovation.™

Site Specific Safety and Environmental Plan

EQT
WEU4 Pad
Alma
Tyler County, WV

For Wells: WEU4H5 WEU4H6 WEU4H10 WEU4H11 WEU4H12
WEU4H13 WEU4H14 WEU4H15

Date Prepared: February 16, 2018

[Signature]
 EQT Production

Regional Land Supervisor
 Title

5/4/2018
 Date

[Signature]
 WV Oil and Gas Inspector

Oil & Gas Inspector
 Title

5/14/2018
 Date

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 08/03/2018

EQT Production Water plan
Offsite disposals for Marcellus wells

4709502513

CWS TRUCKING INC.

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

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

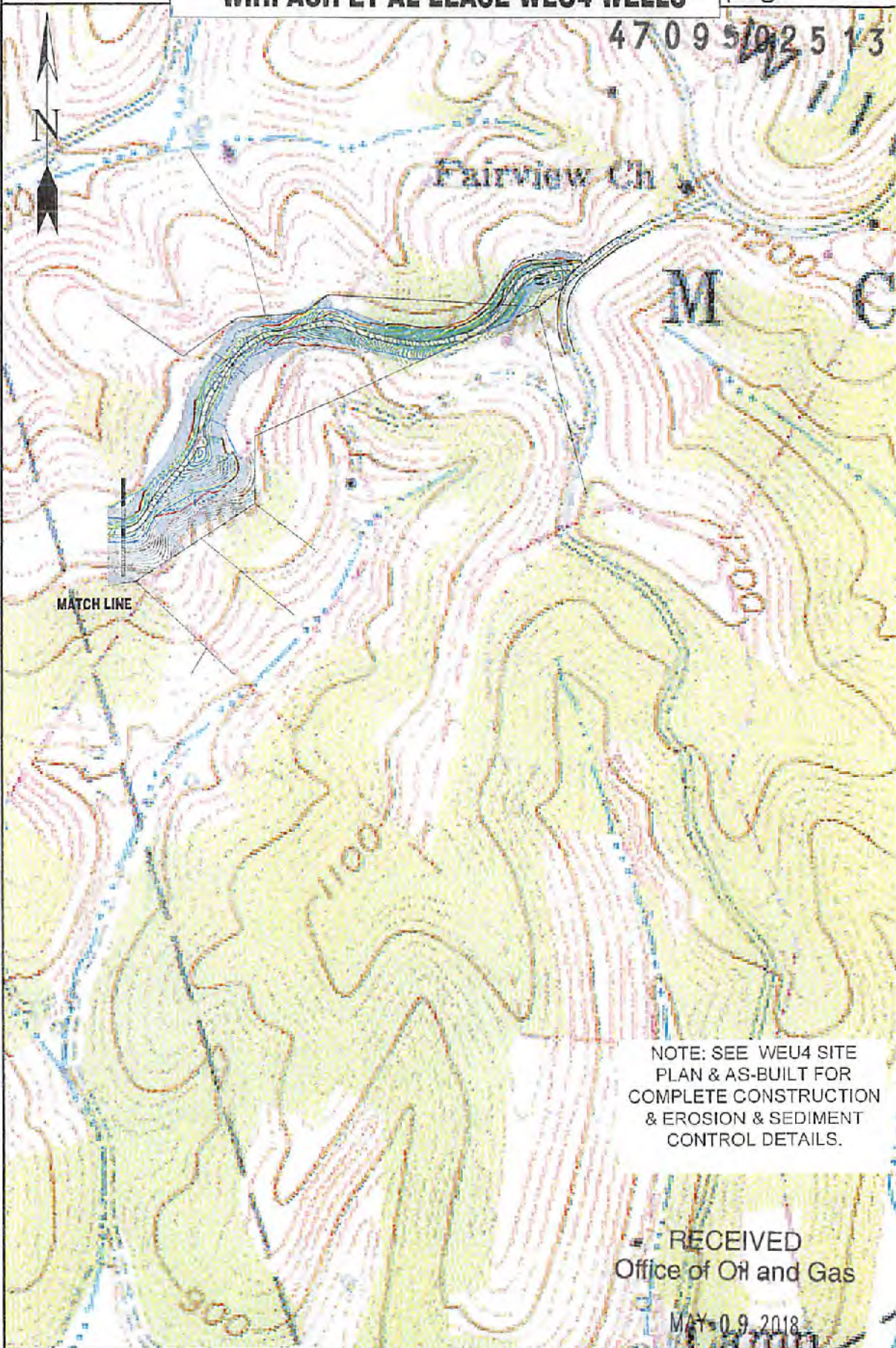
512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV

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

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WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
 SHEET 1 OF 2
 SCALE: 1" = 500'

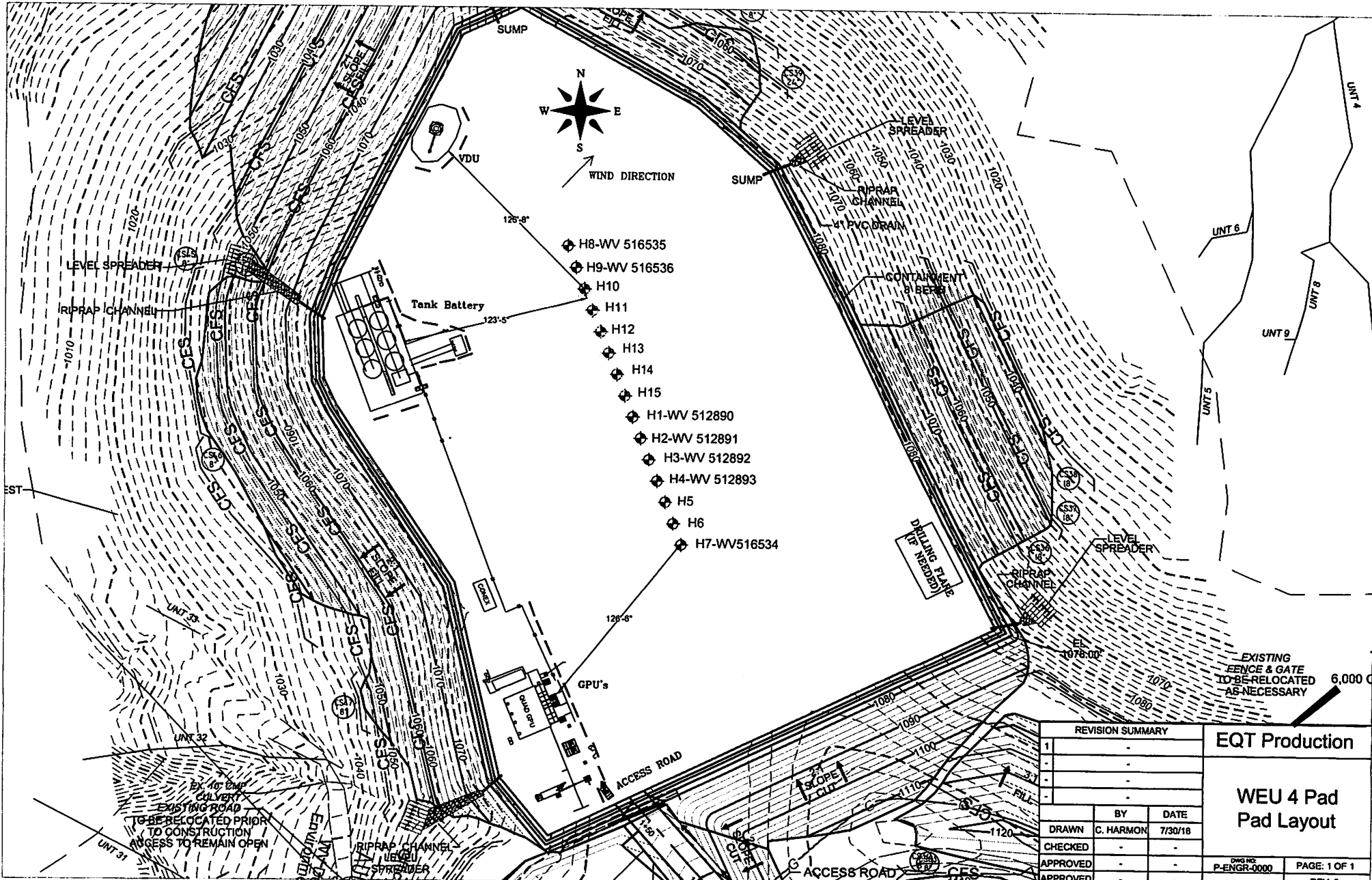
0' 500' 1000'

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Solutions from the ground up.
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 www.slsenergy.com

DRAWN BY: MGF	FILE NO. 77C1	DATE 04-13-18	CADD FILE: 772PEPLN14.dwg
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TOPO SECTIONS OF WEST UNION
 7.5' TOPO QUADRANGLE



EXISTING ROAD TO BE RELOCATED PRIOR TO CONSTRUCTION ACCESS TO REMAIN OPEN

EXISTING FENCE & GATE TO BE RELOCATED AS NECESSARY 6,000'

REVISION SUMMARY		
1		

EQT Production

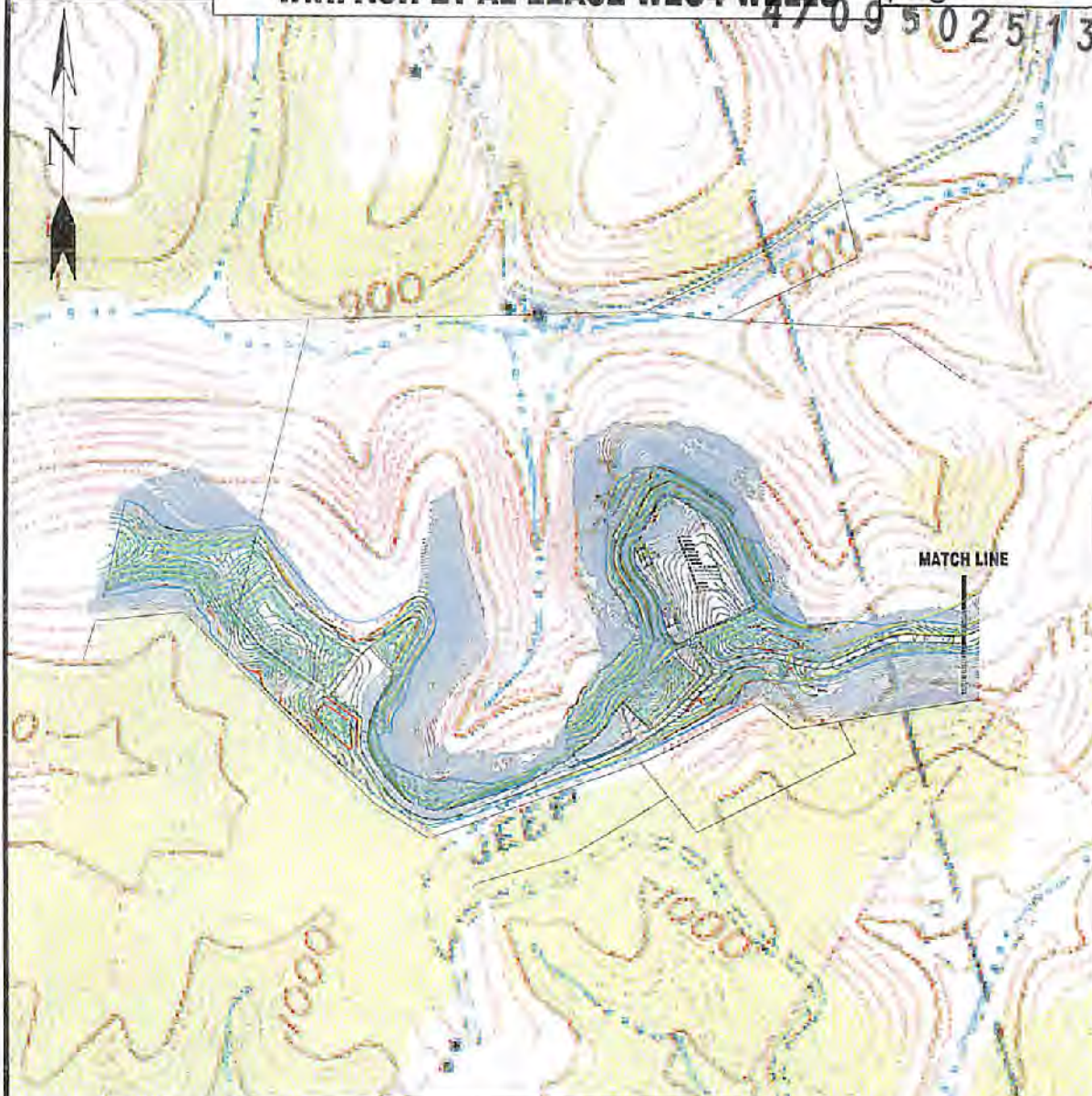
WEU 4 Pad
Pad Layout

	BY	DATE
DRAWN	C. HARMON	7/30/18
CHECKED		
APPROVED		
APPROVED		

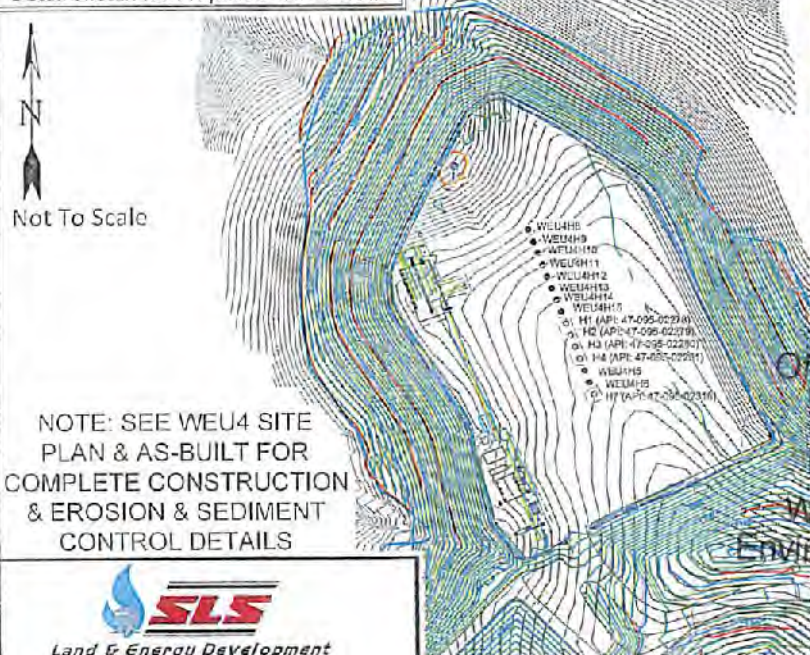
DWG NO: P-ENGR-0000
PAGE: 1 OF 1
REV: 0

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1 2018

47-09-5025-13



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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SHEET 2 OF 2
SCALE: 1"=500'



DRAWN BY: MGF	FILE NO. 7701	DATE 04-13-18	CADD FILE: 2701REPLAN2.dwg
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TOPO SECTIONS OF WEST UNION
7.5' TOPO QUADRANGLE

08/03/2018



Where energy meets innovation.™

Site Specific Safety and Environmental Plan

EQT
WEU4 Pad
Alma
Tyler County, WV

For Wells: WEU4H5 WEU4H6 WEU4H10 WEU4H11 WEU4H12
WEU4H13 WEU4H14 WEU4H15 _____

Date Prepared: February 16, 2018

[Signature]
EQT Production

Regional Land Supervisor
Title

5/4/2018
Date

WV Oil and Gas Inspector

Title

Date

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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
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Permit # SWF-1025WV-0109400
Approval #100833WV

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101 River Park Drive
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Section V. Planned Additives to be used in Fracturing

Material	Approximate Percentage
Water	95.5%
Sand	4.2%
Friction Reducer	0.1%
Biocide	0.05%
Scale Inhibitor	0.03%
15% Hydrochloric Acid	0.06%
Gelling Agent	0.02%
Oxidizing Breaker	0.0009%
Enzyme Breaker	0.0009%

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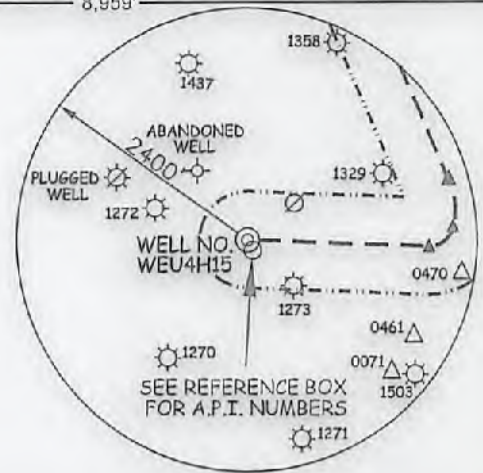
WV Department of
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08/03/2018

**WEU4
WEU4H15
EQT PRODUCTION COMPANY**

SURFACE OWNERSHIP

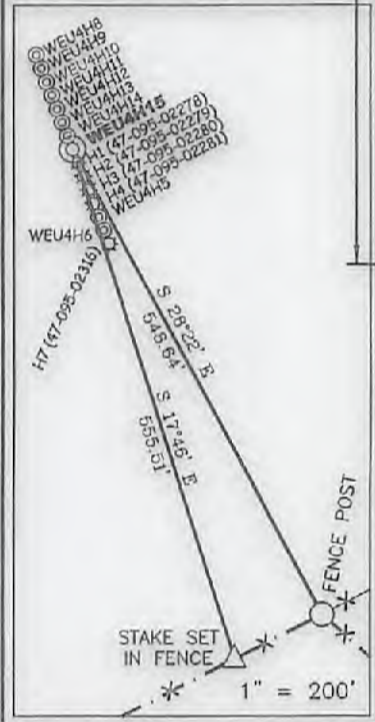
TAG	SURFACE OWNER	ACRES	T.M. - PAR.
A	RICHARD H. METCALF	61.57 AC.±	TM C-16-17
B	JOHN R. ANDERS II	19.75 AC.±	TM C-16-21.1
C	JOHN R. ANDERS II	0.09 AC.±	TM C-16-14.2
D	RICHARD H. METCALF	0.61 AC.±	TM C-16-14.1
E	CONRAD COSTILOW	46.17 AC.±	TM C-16-14
F	DONNA J. PETER	113.4 AC.±	TM C-16-22
G	PAUL WEEKLY (LIFE)	5 AC.±	TM C-16-28
H	PAUL WEEKLY (LIFE)	18 AC.±	TM C-16-27
I	EDWARD, II & CAROLYN WHITE	16 AC.±	TM M-21-40
J	EDWARD, II & CAROLYN WHITE	12.50 AC.±	TM M-21-39
K	EDWARD, II & CAROLYN WHITE	40 AC.±	TM M-21-38
L	ASIA DELL CUMBERLEDGE	75.75 AC.±	TM M-21-32
M	BRUCE & SANDRA STONEKING (LIFE)	69.44 AC.±	TM M-21-28
N	BRUCE & SANDRA STONEKING (LIFE)	42.86 AC.±	TM M-21-29
O	CHASE E. & REBA J. BARTRUG	109.94 AC.±	TM C-16-10
P	GARY DAVENPORT	16 AC.±	TM M-21-25
Q	PEGGY A. WHITE	45.88 AC.±	TM M-21-23
R	ROGER FERGUSON	3.053 AC.±	TM M-21-17.1
S	BOBBY D. & RITA L. DOLL	49 AC.±	TM M-21-11
T	GAMALIEL REYES ET AL	0.58 AC.±	TM M-21-10
U	PERRY L. HAUGHT JR.	16.21 AC.±	TM M-21-08
V	BILLY JOE DOLL	0.58 AC.±	TM M-21-9.1
W	LESTER RAY HAUGHT	0.25 AC.±	TM M-21-12
X	PERRY J. 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	CHRIS BAUM ET AL	56.84 AC.±	TM C-16-23
DD	DONNIE N. & KIM M. WILMOTH	63.29 AC.±	TM M-21-09
EE	TABITHA R. EIDLE	2.59 AC.±	TM M-21-9.2
FF	TABITHA R. EIDLE	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 B. MEANS	90 AC.±	TM M-18-24
JJ	CHRIS BAUM ET AL	24 AC.±	TM M-21-01
KK	WILLIAM N. & MARY C. 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	BRUCE B. SECKMAN	111.75 AC.±	TM M-18-23
PP	PAUL WEEKLY (LIFE)	36 AC.±	TM M-21-15
QQ	PAUL WEEKLY (LIFE)	36 AC.±	TM M-21-16
RR	DONNIE N. & KIM M. WILMOTH	7.50 AC.±	TM M-21-27
SS	PEGGY ANN WHITE	5 AC.±	TM M-21-26
TT	TRUSTEES OF FAIRVIEW CHURCH	1 AC.±	TM M-21-24
UU	MARK A. & JOEL A. PROSSER	2.50 AC.±	TM C-16-15
VV	MARK A. & JOEL A. PROSSER	0.50 AC.±	TM C-16-12
WW	BOBBY D. DOLL ET AL	1 AC.±	TM M-21-31
XX	JEFFREY E. & ANITA L. HOOVER	24.84 AC.±	TM C-16-16



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

NAD'27 S.P.C.(FT)	N. 318,378.30	E. 1,626,569.47
NAD'27 GEO.	LAT-(N) 39.366599	LONG-(W) 80.820860
NAD'83 UTM (M)	N. 4,357,484.16	E. 515,446.48
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 319,992.82	E. 1,628,671.08
NAD'27 GEO.	LAT-(N) 39.368971	LONG-(W) 80.813490
NAD'83 UTM (M)	N. 4,357,882.08	E. 516,093.82
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 325,174.16	E. 1,625,961.52
NAD'27 GEO.	LAT-(N) 39.385231	LONG-(W) 80.823385
NAD'83 UTM (M)	N. 4,359,551.44	E. 515,226.72

REFERENCES



ROYALTY OWNERS

ROXIE DAVIS ET AL	53 AC.±	LEASE NO. 126208
JERRY RAY BROWN ET AL	85 AC.±	LEASE NO. 126187
BRC APPALACHIAN MINERALS, LLC ET AL	65 AC.±	LEASE NO. 126213
PERRY J. HAUGHT JR.	16 AC.±	LEASE NO. 126189
BILLY JOE DOLL	0.58 AC.±	LEASE NO. 991912
CNX GAS COMPANY	66 AC.±	LEASE NO. 126131
GEORGE BIRKLEIN ET AL	90 AC.±	LEASE NO. 126130

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS 2500 SQ. FT. OR GREATER WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE (SHEET 1) AND TOPO MARK SCALE ARE 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 JULY 27, 20 18

REVISED _____, 20 _____

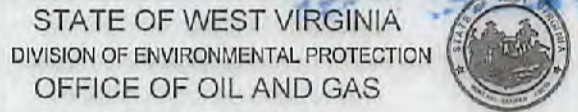
OPERATORS WELL NO. WEU4H15

API WELL NO. 47-95-02513

STATE WV COUNTY TYLER PERMIT 08/03/2018

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7701PWEU4H15.dwg (516601)

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE SEE NOTE 2



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 WAGO OIL & GAS CO. INC. ET AL ACREAGE 152± LEASE NO. 126129

PROPOSED WORK: 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 JASON RANSON

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

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

COUNTY NAME PERMIT

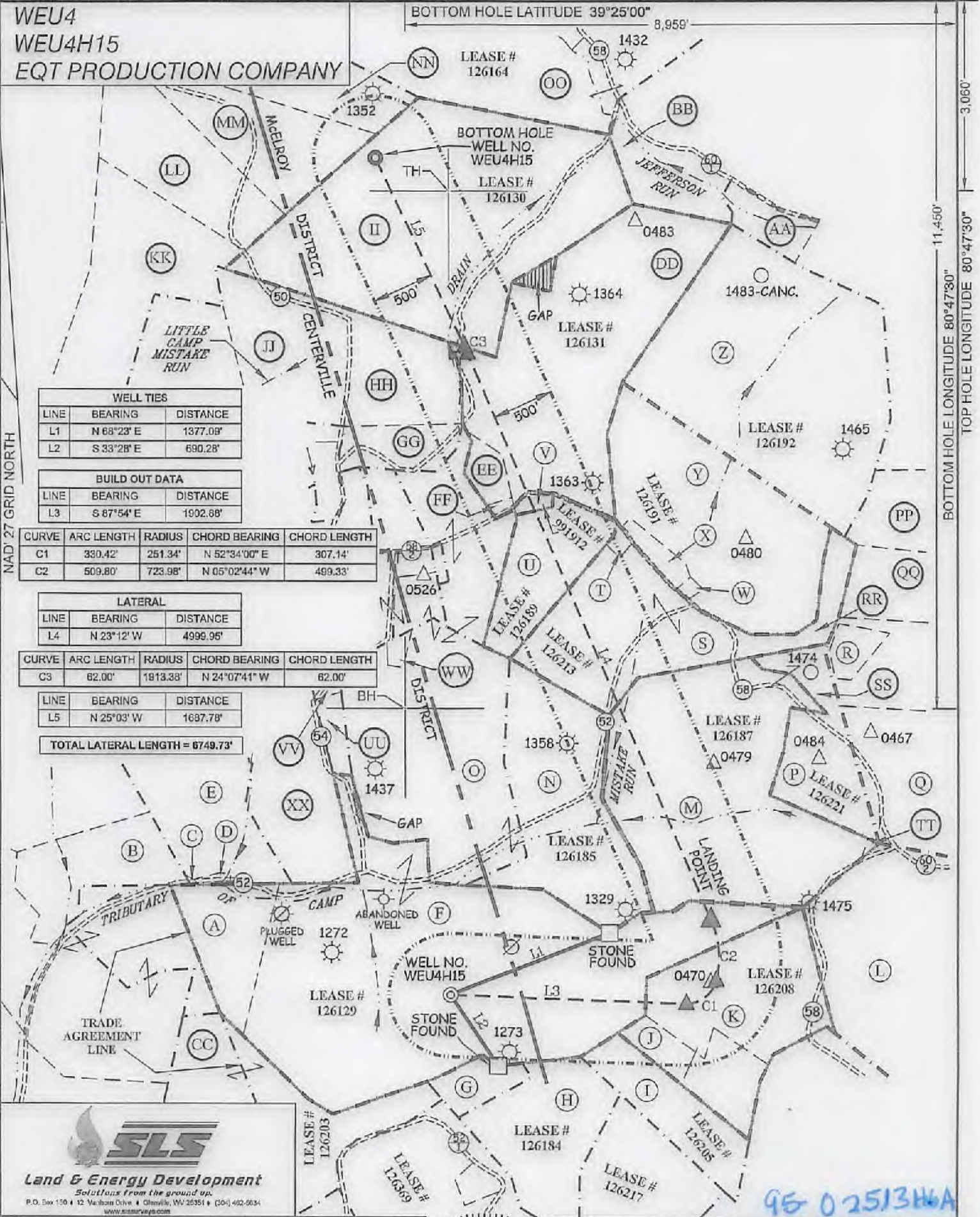
WEU4
WEU4H15
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°25'00"

NAD 27 GRID NORTH

BOTTOM HOLE LONGITUDE 80°47'30"

TOP HOLE LONGITUDE 80°47'30"



WELL TIES		
LINE	BEARING	DISTANCE
L1	N 68°23' E	1377.09'
L2	S 33°28' E	690.28'

BUILD OUT DATA		
LINE	BEARING	DISTANCE
L3	S 87°54' E	1902.88'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	330.42'	251.34'	N 52°34'00" E	307.14'
C2	509.80'	723.98'	N 05°02'44" W	499.33'

LATERAL		
LINE	BEARING	DISTANCE
L4	N 23°12' W	4999.95'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C3	62.00'	1913.38'	N 24°07'41" W	62.00'

LINE	BEARING	DISTANCE
L5	N 25°03' W	1687.78'

TOTAL LATERAL LENGTH = 6749.73'

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Land & Energy Development
Solutions from the ground up.
 P.O. Box 130 • 12 Varbanov Drive • Glenville, WV 26351 • (204) 492-5634
 www.slsenergy.com

95 02513H6A

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

NAD27 S.P.C.(FT)	N. 318,378.30	E. 1,626,569.47
NAD27 GEO.	LAT-(N) 39.366599	LONG-(W) 80.820860
NAD83 UTM (M)	N. 4,357,484.16	E. 515,446.48

LANDING POINT

NAD27 S.P.C.(FT)	N. 318,992.82	E. 1,626,871.08
NAD27 GEO.	LAT-(N) 39.368371	LONG-(W) 80.813450
NAD83 UTM (M)	N. 4,357,662.03	E. 516,063.62

BOTTOM HOLE

NAD27 S.P.C.(FT)	N. 325,174.16	E. 1,625,961.52
NAD27 GEO.	LAT-(N) 39.385231	LONG-(W) 80.823365
NAD83 UTM (M)	N. 4,359,551.44	E. 515,226.72



(+) 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
- McELROY DISTRICT TAX MAP-PARCEL M-00-00

SCALE 1" = 1000'

DATE JULY 27, 2018

REVISED _____, 20____

OPERATORS WELL NO. WEU4H15

API WELL NO. 47

NO. STATE COUNTY PERMIT

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

DESIGNATED AGENT JASON RANSON

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

DATE 08/03/2018

WELL OPERATOR EQT PRODUCTION COMPANY ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

DESIGNATED AGENT JASON RANSON ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

WW-6A1 attachment

Operator's Well No. _____

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
126187	Jerry Ray Brown, et al (current royalty owner)		**	
	Addie Keys, et al (original lessor)	Equitable Gas Company		DB 195/475
	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
126213	Formations below the base of the Fifth Sand 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		unrecorded (Delaware)
	CNG Producing Company	Dominion Exploration & Production, Inc		unrecorded name change
	Dominion Exploration & Production, Inc	CNX Gas Company LLC		384/191 name change
	CNX Gas Company LLC	EQT Production Company		see attached
126189	Perry J. Haught, Jr. (current royalty owner)		**	
	Lawrence E. Keys, et ux (original lessor)	Equitable Gas Company		DB 195/479
	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
991912	Billy Jo Doll (current royalty owner)		**	
	Billy Jo Doll (original lessor)	EQT Production Company		DB 402/337
126131	CNX Gas Company, LLC (current royalty owner)		**	
	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
126130	George Berklein, et al (current royalty owner)		**	
	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

** Per West Virginia Code Section 22-6-8.

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Environmental Protection

4709502513

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

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

May 10, 2009 Department of Environmental Protection

Ken Hechler

Secretary of State
06/05/2018

4709502513

KEN HECHLER
Secretary of State
Bldg. 1, Room W-139
Charleston, WV 25305-0770
(304) 558-8000
FAX (304) 558-0900



FILE IN DUPLICATE ORIGINALS
FEE: \$ 25.00

MAY 10 2000
OFFICE OF STATE
SECRETARY

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

In accordance with §31-1-57 and §31-1-59 of the West Virginia Code, the undersigned corporation is applying for an Amended Certificate of Authority and submits the following statement:

A Certificate of Authority was issued on March 26, 1973, authorizing it to transact business in West Virginia under the name of:

CNG Producing Company

The corporate name of the corporation has been changed to:

Dominion Exploration & Production, Inc.

The name which it elects to use hereafter in West Virginia is:

Dominion Exploration & Production, Inc.

It desires to change or modify other or additional purposes than those set forth in its Application for an Amended Certificate of Authority as follows:

Date: April 24, 2000

Dominion Exploration & Production, Inc.

Corporate Name

By: [Signature]

President

and [Signature]

Secretary

STATE OF: Virginia

Date: 4/24/2000

Office of Oil and Gas

COUNTY OF: Richmond

I, Cynthia L. Hutcherson, a Notary Public, do hereby certify that II. Patrick Riley MAY 09 2018

and Patricia A. Wilkerson appeared before me and signed the foregoing and WV Department of Environmental Protection the corporation.

[Signature]
Signature of Notary Public

My commission expires: Aug. 31, 2002

Notary Seal

State of Delaware
Office of the Secretary of State

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PAGE 1

MAY 10 2000

IN THE OFFICE OF
SECRETARY OF STATE

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "CNG PRODUCING COMPANY", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "DOMINION EXPLORATION & PRODUCTION, INC.", THE TWELFTH DAY OF APRIL, A.D. 2000, AT 9 O'CLOCK A.M.

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Edward J. Freel

Edward J. Freel, Secretary of State

0779431 8320

001229175

AUTHENTICATION: 0420743

DATE: 05-05-00

08/03/2018

4709502513

APR-11-2000 12:47

C T CORPORATION WASH DC

202 393 1760 P.02/02

4-12-2000

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
CNG PRODUCING COMPANY

CNG Producing Company, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST. The name of the corporation (hereinafter called the "corporation") is CNG Producing Company.

SECOND. The certificate of incorporation of the corporation is hereby amended by striking out Article First thereof and by substituting in lieu of said Article the following new Article:


First: The name of the corporation is
DOMINION EXPLORATION & PRODUCTION, INC.

THIRD. The amendment of the certificate of incorporation herein certified has been duly adopted in accordance with the provisions of Sections 228 and 242 of the General Corporation Law of the State of Delaware.

FOURTH. The effective date of the amendment herein certified shall be April 12, 2000.

IN WITNESS WHEREOF, said corporation has caused this Certificate to be signed on April 7, 2000.

CNG PRODUCING COMPANY


By: H. Patrick Riley

Its: Chief Executive Officer and President

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Environmental Protection

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CT CORPORATION SYSTEM

May 8, 2000

Secretary of State
Corporation Division
Capitol Complex
Charleston, WV 25305
ATT: Sherrie Stone

**RE: CNG Production Company changing name to
Dominion Exploration & Production, Inc.
JOB NO. 2175632**

Dear Sherrie:

Attached please find two original applications for Amended Certificate of Authority, two certified copies of name change and check 113072605 in the amount of \$25.00 for the above referenced named change for filing in your office.

After the same has been filed, please return to the undersigned.

Thank you,

Sharon R. Barth
West Virginia Representative

Attachments:

707 Virginia Street East
Charleston, WV 25301
Tel. 304 345 8900
Fax 304 345 8909

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State of Delaware

PAGE 1



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.

RECEIVED FOR RECORD MOCO
90 DEC 27 P 2:33.9

EVELYN T. A. CHASE RECORDER
000000

|||||



909354067

Michael Harkins
Michael Harkins, Secretary of State

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AUTHENTICATION: 12897263

MAY 09 2018

DATE: 12/20/1990

WV Department of
Environmental Protection

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08/03/2018

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FILED
1pm
DEC 20 1990

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909354067

Handwritten signature
SECRETARY OF STATE

AGREEMENT AND PLAN OF MERGER

AGREEMENT AND PLAN OF MERGER, dated as of December 10, 1990, between CNG Development Company, a Delaware corporation ("CNGD") and CNG Producing Company, a Delaware corporation ("CNGP") (which two Delaware corporations are hereinafter sometimes collectively referred to as the "Constituent Corporations").

WHEREAS, as of December 1, 1990, CNGD had authorized capital stock consisting of 1,400,000 shares of Common Stock, par value \$100 per share ("CNGD Common Stock"), of which 1,168,410 shares were issued and outstanding; and

WHEREAS, as of December 1, 1990, CNGP had authorized capital stock consisting of 5,000,000 shares of Common Stock, par value \$100 per share ("CNGP Common Stock"), of which 4,040,000 shares were issued and outstanding; and

WHEREAS, Consolidated Natural Gas Company ("CNG") is, and will continue until the Effective Time of the Merger to be, the record and beneficial owner of all of the outstanding shares of CNGD Common Stock and CNGP Common Stock; and

WHEREAS, the respective Boards of Directors of the Constituent Corporations and of their sole stockholder, CNG, deem it fair and equitable to the Constituent Corporations that the Constituent Corporations be merged into a single corporation, with CNGP being the surviving corporation, on the terms and conditions herein set forth, all under and pursuant to the General Corporation Law of the State of Delaware; and the Boards of Directors of each of such corporations have approved this Agreement;

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements herein contained, and for the purpose of prescribing the terms and conditions of the merger,

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the mode of carrying the same into effect, the manner and basis of converting or exchanging the shares of CNGD Common Stock and CNGP Common Stock into shares of CNGP common stock, \$10,000 par value per share ("CNGP New Common Stock"), and such other details and provisions as are deemed necessary or desirable, the parties hereto agree in accordance with the General Corporation Law of the State of Delaware that CNGD and CNGP shall be, and they hereby are, at the Effective Time of the Merger, merged into a single corporation existing under the laws of the State of Delaware, to-wit, CNGP, one of the Constituent Corporation which shall be the surviving corporation (CNGP in its capacity as surviving corporation being hereinafter sometimes called the "Surviving Corporation"), and the parties hereto adopt and agree to the following agreements, terms and conditions relating to the merger and the mode of carrying the merger into effect.

ARTICLE I

In accordance with the provisions of the General Corporation Law of the State of Delaware, CNGD and CNGP shall be, at the Effective Time of the Merger, merged into a single corporation, to-wit, CNGP, which shall be the Surviving Corporation, and CNGP, as the Surviving Corporation, shall continue to exist by virtue of, and to be governed by, the laws of the State of Delaware.

ARTICLE II

Except as herein specifically set forth, the identity, existence, purposes, powers, objects, franchises, privileges, rights and immunities of CNGP shall continue unaffected and unimpaired by the merger, and the corporate franchises, existence and rights of the Constituent Corporations shall be merged into a single corporation, to-wit, CNGP, and CNGP, as the Surviving Corporation, shall be fully vested therewith. The separate existence and corporate organization of CNGD, except insofar as they may be continued by statute, shall cease at the Effective

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Time of the Merger.

This Agreement and merger shall not become effective until, and shall become effective at, 12:00 o'clock midnight, Delaware Time, on the later of January 1, 1991, or the day on which the following actions shall all have been completed; (i) this Agreement shall have been adopted by the stockholder of each of the Constituent Corporations in accordance with the requirements of the laws of the State of Delaware and that fact shall have been certified hereon by the Secretary or an Assistant Secretary of each of the Constituent Corporations under its corporate seal, and (ii) this Agreement, adopted and certified as aforesaid, shall have been executed and filed in accordance with Section 103 of the General Corporation Law of the State of Delaware.

The time when this Agreement and the merger shall become effective is herein called the "Effective Time of the Merger." The time when this Agreement shall be filed in accordance with Section 103 of the General Corporation Law of the State of Delaware is herein called the "Time of Filing."

ARTICLE III

From and after the Effective Time of the Merger, the Certificate of Incorporation of CNGP as in effect immediately prior to the Effective Time of the Merger shall be the Certificate of Incorporation of the Surviving Corporation until duly amended in accordance with law except that the following change shall be made effective as of the Effective Time of the Merger:

Present Article FOURTH, which now reads as follows:

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"FOURTH The amount of the total authorized capital stock of the Corporation is Five Hundred Million Dollars (\$500,000,000) divided into Five Million (5,000,000) shares of One Hundred Dollars (\$100) par value each."

shall be amended to read as follows:

"FOURTH The amount of the total authorized capital stock of the Corporation is Seven Hundred Million Dollars (\$700,000,000) divided into Seventy Thousand (70,000) shares of Ten Thousand Dollars (\$10,000) par value each."

The By-Laws of CNGP in effect immediately prior to the Effective Time of the Merger shall be the By-Laws of the Surviving Corporation after the Effective Time of the Merger until amended as therein provided.

The directors of CNGP in office at the Effective Time of the Merger shall be the directors of the Surviving Corporation until their successors are elected in accordance with the By-Laws of the Surviving Corporation.

The officers of CNGP in office at the Effective Time of the Merger shall be the officers of the Surviving Corporation until their successors are elected or appointed in accordance with the By-Laws of the Surviving Corporation.

ARTICLE IV

The manner and basis of converting or exchanging the shares of CNGD Common Stock and CNGP Common Stock into shares of CNGP New Common Stock shall be as follows:

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(a) By virtue of the merger and without any action on the part of the holder thereof, each share of CNGD Common Stock which shall be outstanding and owned of record by CNG immediately prior to the Effective Time of the Merger shall be converted into and exchanged for one-hundredth of a share of CNGP New Common Stock.

(b) By virtue of the merger and without any action on the part of the holder thereof, each share of CNGP Common Stock which shall be outstanding immediately prior to the Effective Time of the Merger shall be converted into and exchanged for one-hundredth of a share of CNGP New Common Stock.

(c) After the Effective Time of the Merger, CNG as holder of the outstanding certificate or certificates which prior thereto represented shares of common stock of the Constituent Corporations shall surrender the same to the Surviving Corporation. CNG shall be entitled upon the surrender to receive in exchange therefor a certificate or certificates representing the number of whole shares of CNGP New Common Stock for which the shares theretofore represented by the certificate or certificates so surrendered shall have been converted and for which they shall have been so exchanged. Until so surrendered and exchanged, each outstanding certificate which, prior to the Effective Time of the Merger, represented shares of CNGD Common Stock or CNGP Common Stock shall be deemed for all purposes, subject to the further provisions of this Article IV, to represent the number of whole shares of CNGP New Common Stock for which the shares have been converted and exchanged.

(d) No fraction of a share of CNGP New Common Stock will be issued, but in lieu thereof, CNG as the holder of shares of CNGD Common Stock and CNGP Common Stock who would otherwise have been entitled to a fraction of a share of CNGP New Common stock will be entitled to receive cash in an amount equal to the fraction times \$10,000.

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(e) At the Effective Time of the Merger, the holder of certificates for shares of CNGD Common Stock and CNGP Common Stock shall thereupon cease to have any rights in respect of the shares and, except as provided in subparagraphs (b), (c) and (d) of this Article IV, its sole rights shall be in respect of the shares of CNGP New Common Stock into which the shares of CNGD Common Stock or CNGP Common Stock shall have been converted and exchanged in the merger.

ARTICLE V

At the Effective Time of the Merger, all and singular the rights, privileges, powers and franchises, as well of a public as of a private nature, and all the property, real, personal and mixed, of each of the Constituent Corporations, and all debts due to either of them on whatever account, including subscriptions to shares and all other things in action, or belonging to either of them, shall be taken and deemed to be transferred to, and shall be vested in, the Surviving Corporation without further act or deed; and all property, rights, privileges, powers and franchises and all and every other interest shall be thereafter as effectively the property of the Surviving Corporation as they were of the Constituent Corporations, and the title to any real estate vested by deed or otherwise in any of the Constituent Corporations shall not revert or be in any way impaired by reason of the merger; but the Surviving Corporation shall thenceforth be liable for all debts, liabilities, obligations, duties and penalties of each of the Constituent Corporations, and all said debts, liabilities, obligations, duties and penalties shall thenceforth attach to the Surviving Corporation and may be enforced against it to the same extent as if said debts, liabilities, obligations, duties and penalties had been incurred or contracted by it. No liability or obligation due or to be due at the Effective Time of the Merger, or any claim or demand for any cause then existing against any of the Constituent

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Corporations or any stockholder, officer or director thereof, shall be released or impaired by the merger and all rights of creditors and all liens upon any property of any of the Constituent Corporations shall be preserved unimpaired.

ARTICLE VI

From time to time, as and when requested by the Surviving Corporation, or by its successors or assigns, CNGD shall execute and deliver or cause to be executed and delivered all such deeds and other instruments, and shall take or cause to be taken all such further or other actions, as the Surviving Corporation, or its successors or assigns, may deem necessary or desirable in order to vest in and confirm to the Surviving Corporation and its successors and assigns, title to and possession of all the property, rights, privileges, powers and franchises referred to in Article V hereof and otherwise to carry out the intent and purposes of this Agreement.

ARTICLE VII

(a) Subject to the provisions of this Article VII, this Agreement shall be submitted at the earliest practicable date to CNG as the sole stockholder of each of the Constituent Corporations for adoption and, if adopted by the vote or written consent of the sole stockholder of each of the Constituent Corporations required by statute or the Certificate of Incorporation of each of the Constituent Corporations, shall be made effective as soon as practicable thereafter in the manner provided in Article II hereof.

(b) This Agreement may be terminated at any time prior to the Time of Filing by action of the Board of Directors of any of the Constituent Corporations if

(1) there shall be any actual or threatened action or

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SK 096 PG 0132

proceeding by or before any court or other governmental body which shall seek to restrain, prohibit or invalidate the transactions contemplated by this Agreement or which might affect the right of CNG or the Surviving Corporation to own, operate or control after the Time of Filing the stock, assets, property or business of CNGD and CNGP; or

(2) the merger shall not have become effective on January 1, 1991, or prior to such later date as shall have been approved by the Board of Directors of each of the Constituent Corporations; or

(3) the other Constituent Corporation shall fail to comply in any material respect with any of their agreements contained herein, or any of the representations or warranties of the other Constituent Corporation contained herein shall be inaccurate in any material respect; or

(4) any action (such as the obtaining of any consent of another party to an agreement or of any governmental approval or consent) that shall be required to be taken by any of the Constituent Corporations in order to effect the merger shall not have been taken prior to the Time of Filing.

(c) This Agreement may be terminated at any time prior to the Effective Time of the Merger, whether or not approved by the stockholder of the Constituent Corporations, by mutual consent of the Constituent Corporations, expressed by action of their respective Boards of Directors. In the event for any reason this Agreement ceases to be binding upon the Constituent Corporations because of termination as provided herein or otherwise, it shall thenceforth be void without further action by CNG as the sole stockholder of the Constituent Corporations.

(d) The consummation of the merger is specifically

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1096PG0133

conditioned upon CNG and the Constituent Corporations obtaining prior authorization of the Securities and Exchange Commission, as required pursuant to the Public Utility Holding Company Act of 1935, for the proposed transaction contemplated by this Agreement. Such authorization shall be obtained prior to the Time of Filing.

ARTICLE VIII

Each of the Constituent Corporations hereby severally represents and warrants (as "Representing Corporation") to the other Constituent Corporation as follows:

(a) Representing Corporation is a corporation duly organized and existing and in good standing under the laws of the State of Delaware. Representing Corporation has the corporate power to carry on its business as now being conducted. Each subsidiary (if any) of Representing Corporation is a corporation duly organized and existing and in good standing under the laws of the state of its incorporation and has the corporate power and authority to carry on its business as now being conducted.

(b) The capitalization of Representing Corporation was as set forth in the Form USS of CNG for the year ended December 31, 1989. Except as set forth herein, Representing Corporation does not have any issued or outstanding shares of capital stock and does not have any outstanding subscriptions, warrants, options or other agreements or commitments obligating Representing Corporation to issue shares of its capital stock.

(c) There are no material actions, suits or proceedings pending or threatened against or affecting Representing Corporation, any subsidiary or their respective properties or business, at law or in equity, or before or by any Federal, state, municipal or other governmental department, commission, board, bureau, agency or instrumentality, domestic or foreign

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which has not been previously disclosed to the other Constituent Corporation and CNG.

(d) The Board of Directors of Representing Corporation has approved the Merger Agreement and the transactions contemplated hereby and has authorized the execution and delivery of such agreement by Representing Corporation. Representing Corporation has full power, authority and legal right to enter into such agreement and, upon appropriate vote or consent of its sole stockholder in accordance with law and its Certificate of Incorporation, to consummate the transactions contemplated hereby.

(e) Neither the execution and delivery of the Merger Agreement nor the consummation of the transactions contemplated hereby will result in the breach of any term or provision of the Certificate of Incorporation or the By-Laws of Representing Corporation, or result in the breach of any material term or provision of, or constitute a default or result in the acceleration of any material obligation under, any agreement or other instrument to which Representing Corporation is a party or by which it is bound.

ARTICLE IX

(a) For the convenience of the parties hereto and to facilitate the filing and recording of this Agreement, any number of counterparts hereof may be executed, and each counterpart shall be deemed to be an original instrument.

(b) At any time prior to the Time of Filing, the parties hereto may, by written agreement (i) extend the time for the performance of any of the obligations or other acts of the parties hereto, (ii) waive any inaccuracies in the representations and warranties contained in this Agreement or in any document delivered pursuant hereto and (iii) waive compliance

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with any of the conditions, covenants or agreements contained in this Agreement.

(c) Any representations and warranties of any of the Constituent Corporations contained herein, or in any document furnished pursuant hereto or pursuant to this Agreement shall not survive the merger, and, none of the Constituent Corporations, or their respective stockholder, directors or officers, shall have any liability to any other after the Effective Time of the Merger on account of any breach or failure or the incorrectness of any of the representations and warranties.

(d) Except as otherwise provided in this Agreement, nothing herein expressed or implied is intended, nor shall be construed, to confer upon or give any person, firm or corporation, other than the Constituent Corporations and their respective security holders, any rights or remedies under or by reason of this Agreement.

(e) Any notice which a party hereto may desire to serve upon the other shall be in writing and shall be conclusively deemed to have been received by the party to whom addressed if mailed, postage prepaid, certified mail, return receipt requested, to the following addresses:

CNG Producing Company
CNG Tower
1450 Poydras Street
New Orleans, Louisiana 70112-6000

Attention: Philip L. Jones

CNG Development Company
One Park Ridge Center
P. O. Box 15746
Pittsburgh, Pennsylvania 15244

Attention: Donald A. Fickenscher

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(f) This Agreement constitutes the entire agreement between

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the parties and supersedes all prior agreements and undertakings, oral and written, between the parties thereto with respect to the subject matter hereof.

(g) This Agreement, and the legal relations between the parties thereto shall be governed by and construed in accordance with the laws of the State of Delaware.

IN WITNESS WHEREOF, each of the Constituent Corporations has caused this Agreement and Plan of Merger to be signed in its corporate name by its President or one of its Vice Presidents and attested by its Secretary or one of its Assistant Secretaries and its corporate seal to be affixed hereto, all as of the date first above written.

ATTEST:

D. M. ...
Secretary

CNG PRODUCING COMPANY

By David P. Hunt
President

ATTEST:

... ..
Secretary

CNG DEVELOPMENT COMPANY

By James ...
Senior Vice President

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The foregoing Agreement and Plan of Merger, having been duly executed on behalf of CNG Producing Company and CNG Development Company, all organized and existing under the laws of the State of Delaware, as Constituent Corporations named in said Agreement and Plan of Merger, by the President or a Vice President and attested by the Secretary or an Assistant Secretary of each of said corporations, and having been duly consented to in writing by the sole stockholder of said CNG Producing Company and CNG Development Company, in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware, respectively, the President or a Vice President and the Secretary or an Assistant Secretary of each of said corporations do now hereby execute this Agreement and Plan of Merger in the State of Louisiana under the respective corporate seals of said CNG Producing Company and CNG Development Company as the act, deed and agreement of said CNG Producing Company and CNG Development Company, respectively.

Dated: December 19, 1990

[CORPORATE SEAL]

ATTEST:

D. Malachuk
Secretary

CNG PRODUCING COMPANY
(a Delaware corporation)

By David P. Hunt
President

[CORPORATE SEAL]

ATTEST:

D. A. Field
Secretary

CNG DEVELOPMENT COMPANY
(a Delaware corporation)

By Johna Turk
Senior Vice President

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08/03/2018

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CERTIFICATE OF SECRETARY
OF
CNG PRODUCING COMPANY
(a Delaware corporation)

The undersigned, Assistant Secretary of CNG Producing Company, a corporation organized and existing under the laws of the State of Delaware ("CNGP") does hereby certify, as such Assistant Secretary and under the seal of CNGP, that the Agreement and Plan of Merger to which this Certificate is attached was duly consented to in writing by the sole stockholder of CNGP by an instrument dated December 17, 1990, in accordance with the provisions of Section 228 of the General Corporation Law of Delaware applicable thereto.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of CNG Producing Company (a Delaware corporation), this 19th day of December 1990.

Joanne H. McDonald
Assistant Secretary

[CORPORATE SEAL]

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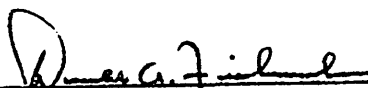
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**CERTIFICATE OF SECRETARY
OF
CNG DEVELOPMENT COMPANY
(a Delaware Corporation)**

The undersigned, Secretary of CNG Development Company, a corporation organized and existing under the laws of the State of Delaware ("CNGD") does hereby certify, as such Secretary and under the seal of CNGD, that the Agreement and Plan of Merger to which this Certificate is attached was duly consented to in writing by the sole stockholder of CNGD by an instrument dated December 17, 1990, in accordance with the provisions of Section 228 of the General Corporation Law of Delaware applicable thereto.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of CNG Development Company (a Delaware corporation), this 19th day of December 1990.


Secretary

[CORPORATE SEAL]

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May 4, 2018

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, wells WEU4H5, WEU4H6, WEU4H10, WEU4H11, WEU4H12,
WEU4H13, WEU4H14, WEU4H15,
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 black ink that reads "Rebecca Wanstreet". The signature is written in a cursive, flowing style.

Rebecca Wanstreet
Landman I -Permitting

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

Date of Notice Certification: 05/07/2018

API No. 47- 95 -
Operator's Well No. WEU4H15
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>WV</u>	UTM NAD 83	Easting: <u>515446.483</u>
County: <u>Tyler</u>		Northing: <u>4357484.162</u>
District: <u>Centerville</u>	Public Road Access: <u>WV-18</u>	
Quadrangle: <u>West Union</u>	Generally used farm name: <u>Donna J Peters</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.

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:

- *PLEASE CHECK ALL THAT APPLY
- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
 - 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
 - 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
 - 4. NOTICE OF PLANNED OPERATION
 - 5. PUBLIC NOTICE
 - 6. NOTICE OF APPLICATION

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RECEIVED

RECEIVED/ NOT REQUIRED

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RECEIVED

RECEIVED

Required Attachments:

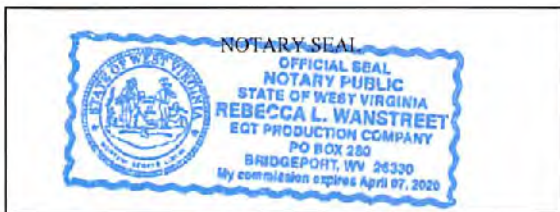
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the published notice advertisement with publication 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.

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Certification of Notice is hereby given:

THEREFORE, I Erin Spine, 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>2200 Energy Drive</u>
By:	<u>Erin Spine</u>		<u>Canonsburg PA 15317</u>
Its:	<u>Regional Land Supervisor</u>	Facsimile:	<u>304-848-0041</u>
Telephone:	<u>304-848-0035</u>	Email:	<u>espine@eqt.com</u>



Subscribed and sworn before me this 4 day of May 2018.
Rebecca L. Wanstreet Notary Public
 My Commission Expires 4-7-2020

Oil and Gas Privacy Notice:

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

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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: 5/7/2018 Date Permit Application Filed: 5/7/2018

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: _____

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*Please attach additional forms if necessary
WV Department of Environmental Protection

Surface Owners:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

47 09 5025 13

Access/ Other Disturbance:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

JAMES B. and BRENDA J. STONEKING
2 DEERHAVEN DRIVE
WHEELING, WV 26003

DIANE L. and GLENN W. MORGAN
590 ISNER CREEK ROAD
ELKINS, WV 26241

RICHARD METCALF
415 WILDLIFE LANE
BRIDGEPORT, WV 26330

Pit/ Impoundment or AST

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

Coal Owners:

ROSEMARY BRANDON
3013 DELEWARE AVE
KENNER LA 70065

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 401 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration or repeal, the secretary shall report to the Legislature on the findings and any recommendations for legislative action.

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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.**

**WV Department of
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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Environmental Protection

08/03/2018

WW-6A
(8-13)

API NO. 47- 95 -
OPERATOR WELL NO. WEU4H15
Well Pad Name WEU 4709502513

Notice is hereby given by:

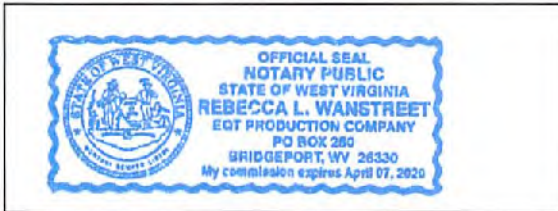
Well Operator: EQT Production Company
Telephone: 304-848-0035
Email: espine@eqt.com



Address: 2200 Energy Drive
Canonsburg PA 15317
Facsimile: 304-848-0041

Oil and Gas Privacy Notice:

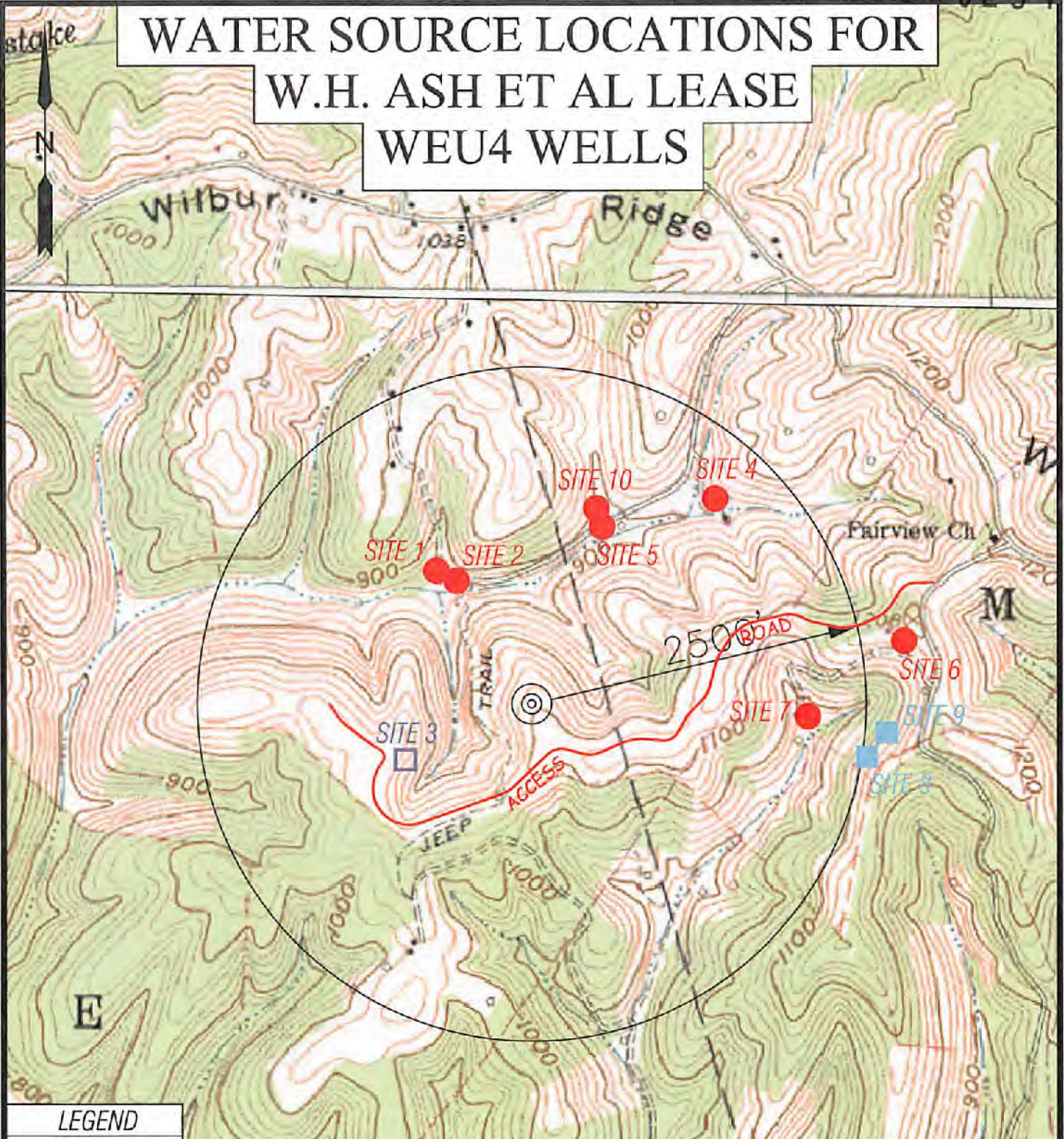
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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 4 day of May 2018.
Rebecca L. Wanstreet Notary Public
My Commission Expires 4-7-2020

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



LEGEND

- WATER WELL
- ▲ CREEK
- CISTERN
- POND

SCALE: 1-INCH=1000-FEET

0' 1000' 2000' 3000'

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SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 130 • 12 Vineyard Drive • Charleston, WV 25314 • (304) 462-9834
www.sls-energy.com

DRAWN BY: MGF FILE NO.: 7701 DATE: 04/16/18 CADD FILE: 7701W5WEU4-RS.dwg

TOPO SECTION OF:
WEST UNION, WV 7.5' QUAD

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

OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280
BRIDGEPORT, WV 26330

Department of Environmental Protection

08/03/2018



WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: EQT Production Company
LEASE NAME AND NUMBER: WEU-4

COMMENTS

The initial field and/or mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 2500' of the proposed well site. (For location of each site see attached area map.)

INDIVIDUAL CONTACTED OR NOTIFIED

Site: 1 Spacing 1220' Owner/Occupant: Donna Peter
 Address: 733 Ridge Rd. Alma, WV 26320 Ph: (304)-758-4495
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.369336, Long : -80.823230
Tax Map 16, Parcel 22
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 2 Spacing 1075' Owner/Occupant: Donna Peter
 Address: 733 Ridge Rd. Alma, WV 26320 Ph: (304)-758-4495
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.369112, Long : -80.822699
Tax Map 16, Parcel 22
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 3 Spacing 1030' Owner/Occupant: Donna Peter
 Address: 733 Ridge Rd. Alma, WV 26320 Ph: (304)-758-4495
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Spring
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.365439, Long : -80.823990
Tax Map 16, Parcel 22
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 4 Spacing 2050' Owner/Occupant: Bruce & Sandra Stoneking
 Address: RR.1 Box 304 BB, Elkins, WV 26241 Ph: _____
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.370837, Long : -80.815910
Tax Map 21, Parcels 28 and 29
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

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Site: 5 Spacing 1425' Owner/Occupant: Bruce & Sandra Stoneking
 Address: RR.1 Box 304 BB, Elkins, WV 26241 Ph: Unknown
 Field Contact Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.370270, Long : -80.818867
Tax Map 21, Parcels 28 and 29
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 6 Spacing 2830' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd., Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.368035, Long : -80.810833
Tax Map 21, Parcel 38, 39, & 40
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 7 Spacing 2070' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd. Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.366470, Long : -80.813358
Tax Map 21, Parcel 38, 39, & 40
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 8 Spacing 2540' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd., Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Pond
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.365666, Long : -80.811781
Tax Map 21, Parcel 38, 39, & 40
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 9 Spacing 2665' Owner/Occupant: Edward and Carolyn White
 Address: 4316 Teen Barnes Rd., Jefferson, MD 21755 Ph: (301)-371-8521
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Pond
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.366163, Long : -80.811260
Tax Map 21, Parcel 38, 39, & 40
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

Site: 10 Spacing 3655' Owner/Occupant: Chase E. & Reba J. Bartrug
 Address: 3163 Jefferson Run Rd., Alma, WV 26320 Ph: Unknown
 Field Contact Date: 05/20/2015 Located: Yes Date Located: 05/20/2015 Source: Water Well
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Lat : 39.370659, Long : -80.819027
Tax Map 16, Parcel 10
Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.

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Site: _____ Spacing _____ Owner/Occupant: Conrad Costilow
 Address: 13310 Middle Island Rd., West Union, WV 26456 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Tax Map 16, Parcel 14
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Bryan W. Pratt
 Address: 525 Cabin Lane, Alma, WV 26320 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/2016 2nd 11/21/16 Certified (3rd) 11/10/16
 Comments: Tax Map 21, Parcel 41
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Paul Weekley c/o Paula Miller
 Address: 4500 McElroy Creek Rd., Alma, WV 26320 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/16 2nd 11/21/16 Certified (3rd) 11/01/16
 Comments: Tax Map 16, Parcel 27, 28, & 29
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Chris Baum Jr. & Lynn k. Herstine
 Address: 7214 Ridgeview Dr. SE, Waynesburg, OH 44688 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/16 2nd 11/21/16 Certified (3rd) 11/10/16
 Comments: Tax Map 16, Parcel 23
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Leona Lorkovich
 Address: 302 Lynn Dr., New Brighton, PA 15066 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/15 2nd 04/26/15 Certified (3rd) 04/17/15
 Comments: Tax Map 16, Parcel 24
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Stonewall Gas Company
 Address: 501 Martindale St. Suite 500, Pittsburgh, PA 15212 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/15 2nd 04/26/15 Certified (3rd) 04/17/15
 Comments: Tax Map 16, Parcel 24.2
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

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Site: _____ Spacing _____ Owner/Occupant: Richard H. Metcalf
 Address: 425 Wildlife Ln., Bridgeport, WV 26330 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/2016 2nd 11/21/2016 Certified (3rd) 11/10/2016
 Comments: Tax Map 16, Parcels 14.1 & 17
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: John Anders II
 Address: 804 Peters Run Rd., Wheeling, WV 26003 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/15 2nd 04/23/16 Certified (3rd) 04/17/15
 Comments: Tax Map 16, Parcel 14.2
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Mark A. & Joel A. Prossor
 Address: HC 74 Box 21, Wilbur, WV 26320 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
 Comments: Tax Map 16, Parcel 15
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Jeffrey & Anita Hoover
 Address: 305 Ridge Rd., Alma, WV 26320 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/16 2nd 11/21/16 Certified (3rd) 11/10/16
 Comments: Tax Map 16, Parcel 16
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

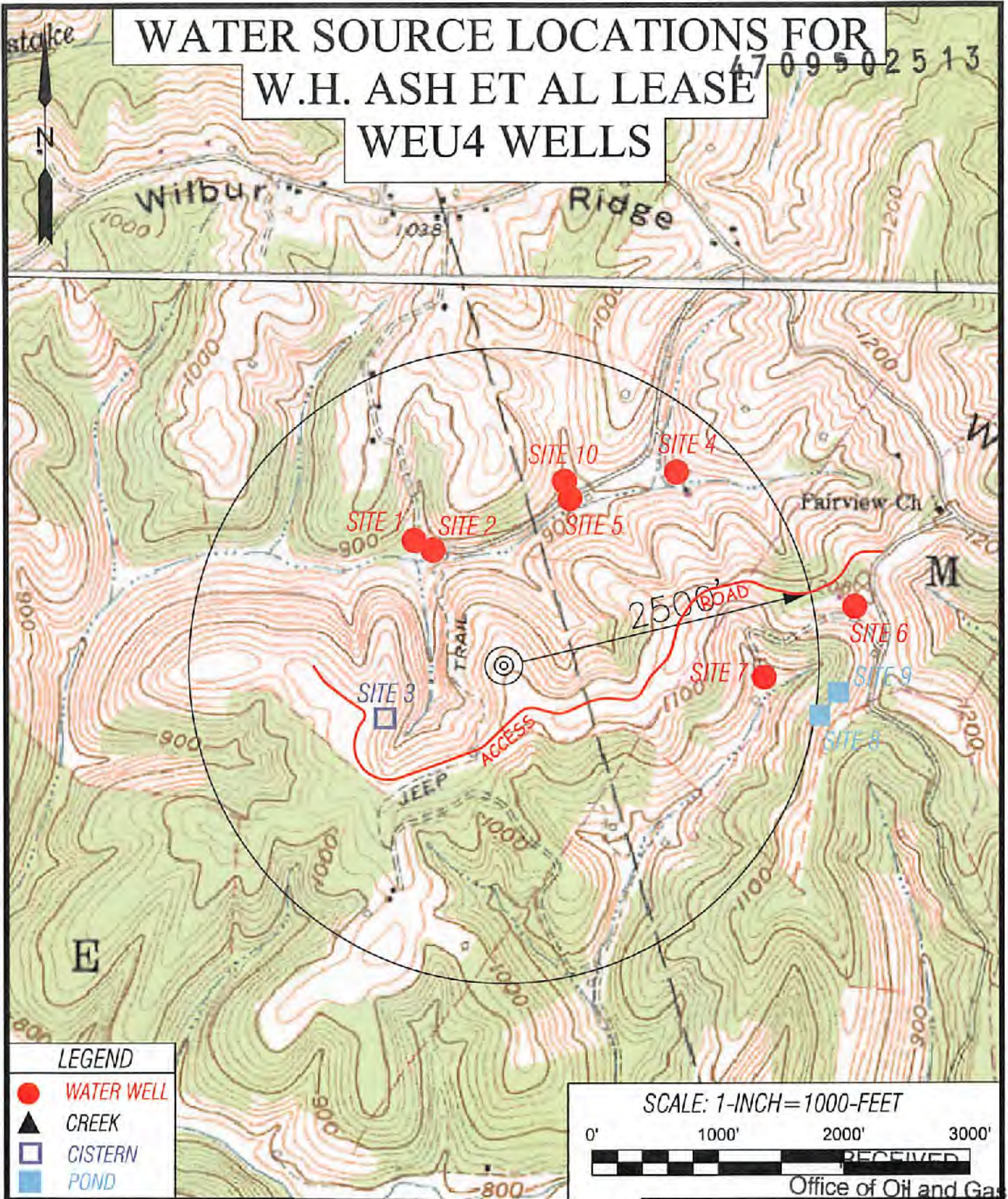
Site: _____ Spacing _____ Owner/Occupant: Pearlie Davis
 Address: 122 Elm St., Davisville, WV 26142 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/16 2nd 11/21/16 Certified (3rd) 4/16/18
 Comments: Tax Map 16, Parcel 25
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

Site: _____ Spacing _____ Owner/Occupant: Anzaretta Drain Hrs. c/o Paula Miller
 Address: 4500 McElroy Creek Rd., Alma, WV 26320 Ph: Unknown
 Field Contact Date: N/A Located: No Date Located: N/A Source: Unknown
 If No, declined by who _____ Letter/Notice Date: 1st 11/11/16 2nd 11/21/16 Certified (3rd) 11/10/16
 Comments: Tax Map 18, Parcel 3
No Response To Previous Certified Letter
New certified letter was sent for renotification on 4/16/18.

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



LEGEND

- WATER WELL
- ▲ CREEK
- ◻ CISTERN
- ◻ POND

SCALE: 1-INCH=1000-FEET



Office of Oil and Gas



TOPO SECTION OF:
WEST UNION, WV 7.5' QUAD

OPERATOR:
EQT PRODUCTION COMPANY
115 PROFESSIONAL PLACE
P.O. BOX 280 WV Department of
BRIDGEPORT, WV 26330 Environmental Protection

DRAWN BY MGF	FILE NO. 7701	DATE 04/16/18	CADD FILE: 7701WSNEU4-R3.dwg
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DISTRICT	COUNTY	TAX MAP-PARCEL NO.
CENTERVILLE	TYLER	16-22

08/03/2018

Surface Owners:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

4709502513

Access/ Other Disturbance:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

JAMES B. and BRENDA J. STONEKING
2 DEERHAVEN DRIVE
WHEELING, WV 26003

DIANE L. and GLENN W. MORGAN
590 ISNER CREEK ROAD
ELKINS, WV 26241

RICHARD METCALF
415 WILDLIFE LANE
BRIDGEPORT, WV 26330

Pit/ Impoundment or AST

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

Coal Owners:

ROSEMARY BRANDON
3013 DELEWARE AVE
KENNER LA 70065

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Environmental Protection
08/03/2018

4709502513

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: 02/27/2018 **Date Permit Application Filed:** 03/08/2018

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: <u>WV</u>	UTM NAD 83 Easting: <u>515446.483</u>
County: <u>Tyler</u>	Northing: <u>4357484.162</u>
District: <u>Centerville</u>	Public Road Access: <u>WV-18</u>
Quadrangle: <u>West Union</u>	Generally used farm name: <u>Donna J Peters</u>
Watershed: <u>Tributary of Camp Mistake Run</u>	

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: 2200 Energy Drive
Canonsburg PA 15317
Telephone: 304-848-0035
Email: espine@eqt.com
Facsimile: 304-848-0041

Authorized Representative: Erin Spine
Address: 2200 Energy Drive
Canonsburg PA 15317
Telephone: 304-848-0035
Email: espine@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 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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WV Department of
Environmental Protection

08/03/2018

Surface Owners:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

47 0 9 5 0 2 5 1 3

Access/ Other Disturbance:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

JAMES B. and BRENDA J. STONEKING
2 DEERHAVEN DRIVE
WHEELING, WV 26003

DIANE L. and GLENN W. MORGAN
590 ISNER CREEK ROAD
ELKINS, WV 26241

RICHARD METCALF
415 WILDLIFE LANE
BRIDGEPORT, WV 26330

Pit/ Impoundment or AST

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

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WV Department of
Environmental Protection

08/03/2018

**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: 05/07/2018 **Date Permit Application Filed:** 05/07/2018

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

- | | |
|--|-------------------------------|
| <input checked="" type="checkbox"/> CERTIFIED MAIL | <input type="checkbox"/> HAND |
| RETURN RECEIPT REQUESTED | 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: <u>See attached</u>	Name: <u>See Attached</u>
Address: _____	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>WV</u>	UTM NAD 83	Easting: <u>515446.483</u>
County: <u>Tyler</u>		Northing: <u>4357484.162</u>
District: <u>Centerville</u>	Public Road Access: <u>WV-18</u>	
Quadrangle: <u>West Union</u>	Generally used farm name: <u>Donna J Peters</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: <u>EQT Production Company</u>	Address: <u>2200 Energy Drive</u>
Telephone: <u>304-848-0035</u>	<u>Canonsburg PA 15317</u>
Email: <u>espine@eqt.com</u>	Facsimile: <u>304-848-0041</u>

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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Environmental Protection

08/03/2018

Surface Owners:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

47 09 5025 13

Access/ Other Disturbance:

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

JAMES B. and BRENDA J. STONEKING
2 DEERHAVEN DRIVE
WHEELING, WV 26003

DIANE L. and GLENN W. MORGAN
590 ISNER CREEK ROAD
ELKINS, WV 26241

RICHARD METCALF
415 WILDLIFE LANE
BRIDGEPORT, WV 26330

Pit/ Impoundment or AST

DONNA J PETER
733 RIDGE ROAD
WILBUR, WV 26320

RECEIVED
Office of Oil and Gas

MAY 09 2018

WV Department of
Environmental Protection

08/03/2018

**WVDEP OOG
ACCEPTED AS-BUILT**

WJ 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

PROJECT INFORMATION

PROJECT NAME WEU-4 AS-BUILT SITE PLAN

TAX PARCEL:
CENTERVILLE DISTRICT
MAP 16
MCELROY DISTRICT
MAP 21

SURFACE OWNER:
L. B. SANDER & SONS
MURKIN CENTER
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 90.44 ACRES

DOYNA, J. PETER
MCELROY & CENTERVILLE DISTRICT
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 113.86 ACRES

EDWARD & WYNNE HETCALF
CENTERVILLE CENTER
TYLER COUNTY, WV
TOTAL PROPERTY AREA: 91.57 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 WEU-4 SITE IS NORTH OF CAMP MISTAKE RUN COUNTY ROUTE 56, THE
ENTRANCE TO THE SITE IS APPROXIMATELY 0.2 MILE SOUTH WEST OF COUNTY
ROUTE 56 AND COUNTY ROUTE 6027 INTERSECTION.

LOCATION COORDINATES

WEU-4 SITE BOUNDARY
LATITUDE: 38.269178 LONGITUDE: 80.812114 (NAD 83)
LATITUDE: 4, 357, 272 LONGITUDE: 516, 363 (UTM NAD 83 METERS)

WEU-4 CENTER OF WELL PAD
LATITUDE: 38.268620 LONGITUDE: 80.820145 (NAD 83)
LATITUDE: 4, 357, 266 LONGITUDE: 515, 448 (UTM NAD 83 METERS)

WEU-4 FLOW CENTER OF FLOWBACK PIT
LATITUDE: 38.265305 LONGITUDE: 80.821021 (NAD 83)
LATITUDE: 4, 357, 250 LONGITUDE: 515, 431 (UTM NAD 83 METERS)

WEU-4 FLOW CENTER OF COMPLETION PIT
LATITUDE: 38.265009 LONGITUDE: 80.820772 (NAD 83)
LATITUDE: 4, 357, 246 LONGITUDE: 515, 254 (UTM NAD 83 METERS)

SITE DISTURBANCE COMPUTATIONS

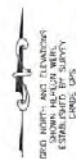
TOTAL AS-BUILT DISTURBANCE = 35.61 ACRES

GENERAL DESCRIPTION

THE WEU-4 PAD AND PIT & FLOWBACK PITS WERE CONSTRUCTED TO AID IN THE DEVELOPMENT
OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

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!

LOCATION MAP



WEST UNION QUAD

SCALE 1"=1000'

LIST OF DRAWINGS

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

LEGEND	
LIMITS OF DISTURBANCE	---
CONCRETE FILLER PAD	---
AS-BUILT LAD	---
EE HEAD EDGE OF GRAVEL/DIRT	---
EE ROAD EDGE OF PAVEMENT	---
EE ROAD CENTERLINE	---
EE CENTERLINE	---
EE CULVERT	---
EE FENCELINE	---
EE GATE	---
EE OVERHEAD UTILITY R/W	---
EE OVERHEAD UTILITY R/W	---
EE POWER POLE	---
EE CITY WIRE	---
EE TELEPHONE LINE	---
EE GASLINE	---
EE GASLINE R/W	---
EE WATERLINE	---
EE STRUCTURE	---
EE PIPELINE MARKER	---
BIG FOOTPRINT	---
EDGE OF GRAVEL PAD	---
EDGE OF BERM	---
EE SUPER BILT FENCE	---
EE REINFORCED BILT FENCE	---
TOP BERM	---
GRAVEL	---
RED BILT	---
ORIGINAL GRADING & CONTOURS	---
AS-BUILT & CONTOURS	---
PHOTO NUMBER & LOCATION	---
AS-BUILT WELL LOCATIONS	---
SHOT ELEVATIONS	---
MANUSCRIPT	---

DWAH 4/4/16

DATE	DESCRIPTION

EQT
Where energy meets innovation.

SLS
Land & Energy Development
1000 W. 10th Street, Suite 100, Tyler, WV 26109

THIS DOCUMENT WAS
PREPARED BY
SOUTH LAND
SURVEYING, INC.
FOR EQT

REG. NO. 11444
12/17/16
STATE OF WEST VIRGINIA
SURVEYING BOARD

**WEU-4
AS-BUILT SITE PLAN**

THIS DOCUMENT WAS PREPARED BY
SOUTH LAND SURVEYING, INC.
FOR EQT PRODUCTION COMPANY

DATE: 03/02/2016
BY:
SCALE: 1" = 1000'
DESIGNED BY: KLS
FILE NO.: 770
SHEET: 1 OF 2
DATE: 4/1/16
BY: KLS
770: WJ, KLS, TS, JMG

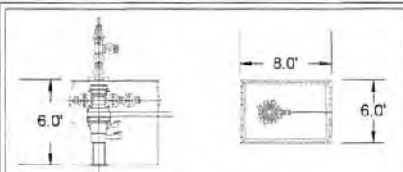


WEU-4 AS BUILT SITE PLAN

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

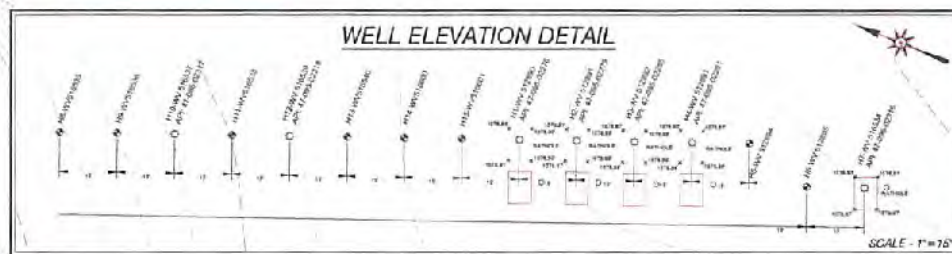
**WVDEP OOG
ACCEPTED AS-BUILT**

4/4/2016



CELLAR/WELL HEAD DETAIL
NOT TO SCALE

L. B. & SANDRA
STONERKING
42.88 ACRES



WELL ELEVATION DETAIL

SCALE - 1" = 16'

Dennis J. Peter
113 A Acres
TM 16-22

Storage Volume	Number	IC-3	IC-4	IC-5	IC-6	IC-7
1	1084.21	0	0	0	0	0
2	1084.21	17.5	0.20777	882.0	0	20.4
3	1071.21	121.0	0.23381	2448.0	447.0	0
4	1071.21	228.0	0.14814	4848.0	4848.0	1122.0
5	1071.21	288.0	0.24898	8073.0	8073.0	1287.0
6	1071.21	318.0	0.38105	12411.0	12411.0	2082.0
7	1071.21	333.0	0.50885	17773.5	17773.5	4281.0
8	1071.21	336.0	0.74115	24162.0	24162.0	6750.0
9	1071.21	336.0	0.96944	31567.5	31567.5	9251.0
10	1071.21	336.0	1.18742	40077.0	40077.0	11600.0
11	1071.21	336.0	1.39188	49698.0	49698.0	14142.0
12	1071.21	336.0	1.58972	60441.0	60441.0	17297.0
13	1071.21	336.0	1.77984	72306.0	72306.0	20477.0
14	1071.21	336.0	1.96115	85293.0	85293.0	23892.0
15	1071.21	336.0	2.13266	99402.0	99402.0	27654.0
16	1071.21	336.0	2.29437	114633.0	114633.0	31775.0
17	1084.21	556.5	3.58942	172639.5	172639.5	47209.0

VOLUME OF WATER AT 2' FREEBOARD
6884 21" = 1,341,927.7 GALLONS
1084 21" = 2,192.4 BARRELS

REV	DATE	DESCRIPTION
REV 1	3/21/16	ADDED TYPICAL CELLAR DETAIL

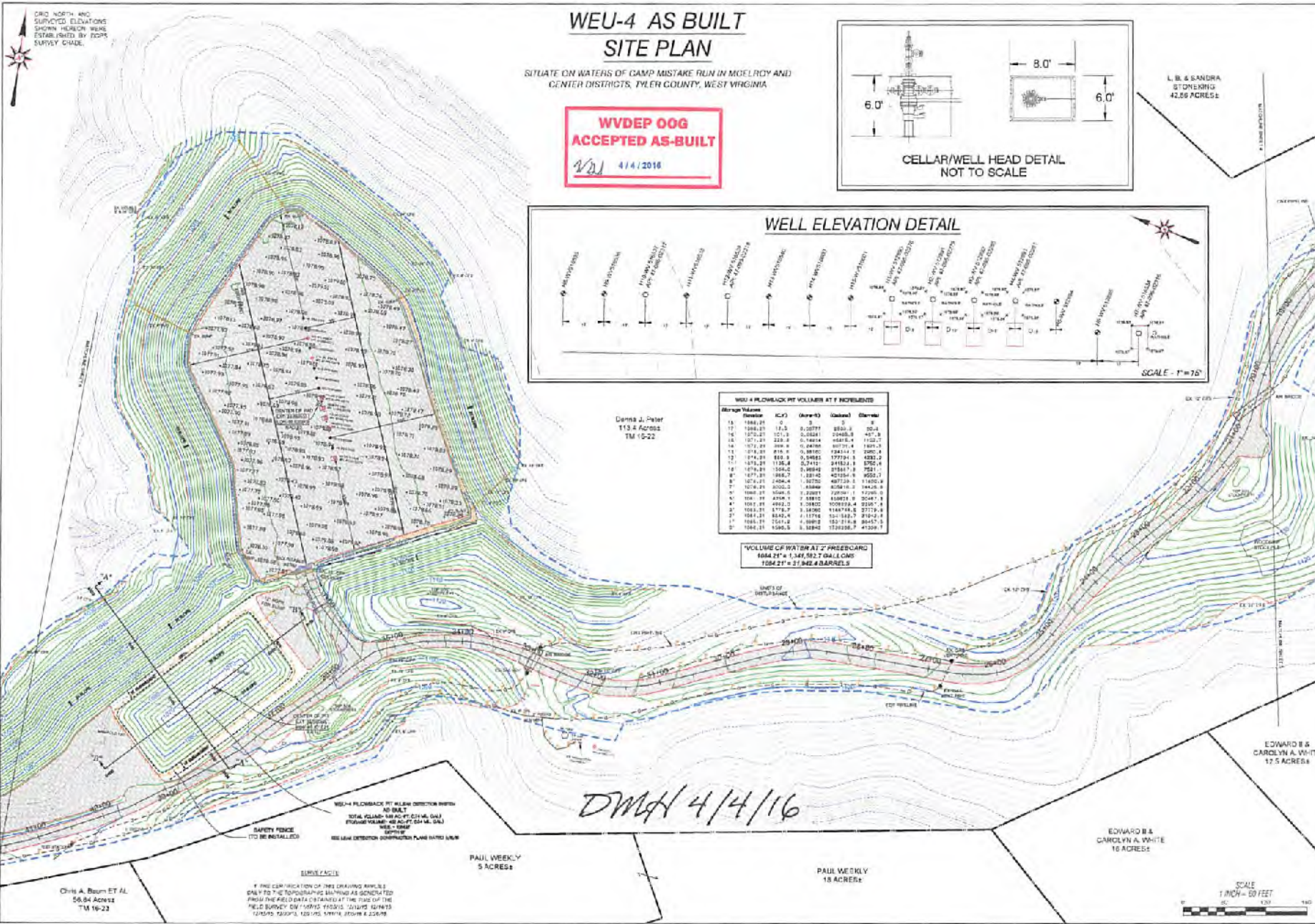
DATE	04/16/2016
REV	
SCALE	1" = 60'
DESIGNED BY	K.E.B.
SHEET NO	7/10
SHEET	4 OF 3
SCALE	1" = 60'
DATE	04/16/2016



THIS DOCUMENT WAS
PREPARED BY
SLS SURVEYING & ENGINEERING, INC.
FOR EQ3

WEU-4
AS-BUILT SITE PLAN

THIS DOCUMENT WAS PREPARED BY
SLS SURVEYING & ENGINEERING, INC.
FOR EQ3



DMAH 4/4/16

SCALE
1" = 60 FEET

Chris A. Baum ET AL
56.94 Acres
TM 16-23

PAUL WEEKLY
9 ACRES

PAUL WEEKLY
18 ACRES

EDWARD B &
CAROLYN A. WHITE
16 ACRES

EDWARD B &
CAROLYN A. WHITE
17.5 ACRES

IF THE CERTIFICATION OF THIS DRAWING APPLIES
ONLY TO THE SURVEYING WORKING AS INDICATED
FROM THE FIELD DATA OBTAINED AT THE TIME OF THE
FIELD SURVEY BY THE SURVEYOR, THE SURVEYOR IS NOT
RESPONSIBLE FOR THE ACCURACY OF THE DATA

WEU-4 FLOWBACK BY WELLS DIRECTION INDICATED
AS BUILT
TOTAL FLOWBACK: 88.8 AC-FEET OF 21" V.G. GALL
FLOWBACK VOLUME: 48 AC-FEET OF 21" V.G. GALL
WELLS - 8MP
DIRECTION

SAFETY FENCE
TO BE INSTALLED