

west virginia department of environmental protection

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

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 WEU4H12 47-095-02510-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: WEU4H12

Farm Name: DONNA J. PETER

U.S. WELL NUMBER: 47-095-02510-00-00

Horizontal 6A New Drill Date Issued: 8/3/2018

API Number: 95-02510

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.

API Number: 95-02510

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.

WW-6B (04/15)

API NO. 47-95	_ 02510
OPERATOR V	VELL NO. WEU4H12
Well Pad Na	me: WEU4

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

1) Well Operator: EQT Production	Company	306686	Tyler	Centervill West Union
		Operator ID	County	District Quadrangle
2) Operator's Well Number: WEU4F	112	Well	Pad Name: W	EU4
3) Farm Name/Surface Owner: Donr	a J Peter	Public I	Road Access: _	W-18
4) Elevation, current ground: 1079	E	levation, propos	sed post-constru	ection: 1079
5) Well Type (a) Gas X Other	Oil	U	nderground Sto	orage
(b)If Gas Shallow	×	Deep		
Horizont	al x		Dm H	OPB
6) Existing Pad: Yes or No Yes			7-31-	18 7/31/2018
 Proposed Target Formation(s), Dep Target formation is Marcellus at a depth of 				
8) Proposed Total Vertical Depth: 60	680			
9) Formation at Total Vertical Depth:	Marcellu	s		
10) Proposed Total Measured Depth:	11046			
11) Proposed Horizontal Leg Length:	3291			
12) Approximate Fresh Water Strata	Depths:	132, 175, 186	6, 204	
13) Method to Determine Fresh Wate	Depths:	By Offset wells		
14) Approximate Saltwater Depths:	1128, 1219), 1222		
15) Approximate Coal Seam Depths:	230, 281,	696		
16) Approximate Depth to Possible V	oid (coal m	nine, karst, other): None repor	
17) Does Proposed well location cont directly overlying or adjacent to an ac		Yes		No X AUG 1 2000
(a) If Yes, provide Mine Info: Nar	ne:			1 2018
Dep	oth:			Environmental Protection
Sea	m:			
Ow	ner:			

WW-6B	
(04/15)	

API NO. 47-_95 __02510

OPERATOR WELL NO. WEU4H12

Well Pad Name: WEU4

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	11046	11046	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							

99B 7/31/2018 DMH 7-71-18

ТҮРЕ	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

		l:	Kind:
-		s:	Sizes
Office of O		hs Set:	Depth
		hs Set:	Depth

WW-6	3
(10/14)

API NO. 47- 95 - 02510 OPERATOR WELL NO. WEU4H12 Well Pad Name: WEU4

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 4097'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) 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 sturries; 25% Flake Loss Circulation Material (LCM)

Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement sturnes, 0.25% flake. Loss Circulation Material (LCM) ..6% Super FL-300 (fluid loss/lengthens thickening time)

Internediate (class in Centern), 9-3 Content, 9-3 Content

25) Proposed borehole conditioning procedures:

WV Department of Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish a totection 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.

Office of Oil and Gas AUG 1 2018

(WEU4H12) Well **EQT Production**

West Union Quad Tyler County, WV

155 4630 Vertical Section 516539 Enertia #

Note: Diagram is not to scale

ote: Diagram is not to scale	Top Base			Casing and Cementing	_		Deepest Fresh Water:	204'
Formations	TVD TVD			Туре	Conductor	Surface	Intermediate	Production
Conductor	40			Hole Size, In.	30	17 1/2	12 3/8	8 1/2
		4		Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Base Fresh Water	204			Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
		111111		Depth, MD	40'	750'	2,865'	11.046'
Surface Casing	750	41111		Weight	85.6#	54.5#	40#	20#
				Grade	A-500	J-55	A-500	P-110
Base Red Rock	1101	1111		New or Used	New	New	New	New
		1111		Burst (psi)	1378	2,700	3,950	12,640
		1111		Cement Class	A	A / Type 1	Н	A/H
Maxton	1838 - 2037	1111		Cement Yield	1.18	1.19	1.07	1.123 / 2.098
Big Lime Weir	2111 - 2395 2403 - 2450			Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Gantz	2490 - 2507			Method	Displacement	Displacement	Displacement	Displacement
Fifty foot	2604 - 2659	4344		Est. Volume (cu ft)	49	728	1,126	1,762
Thirty foot Gordon Intermediate Casing Forth Sand Bayard	2690 - 2744 2770 - 2815 2865 2841 - 2903 3011 - 3148			Possible Additives	N/A	Calcium Chloride	Calcium Chloride, Fluid Loss, Defoamer, Dispersant, POZ, Bonding Agent, Extender, Retarder, Flake/LCM	Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifie Defoamer, POZ, Bonding Agent Retarder, Anti-Settling/Suspension Agent
Warren Speechley Balltown A Riley Benson Alexander Sonyea Middlesex Genesee Geneseo Tully Hamilton Marcellus Production Casing	3374 - 3440 3460 - 3574 3976 - 4088 4574 - 4864 4995 - 5058 5242 - 5324 6328 - 6449 6449 - 6496 6496 - 6570 6570 - 6605 6605 - 6626 6626 - 6649 6649 - 6702 11046 MD		OP @ 4,097'		Un'	1-3×18	gel 1/3/2019	\$
Onondaga	6702	Land curve @	6,680' TVD 7,755' MD			Est. TD @	6,680° 11,045 '	

Proposed Well Work:

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

Drill the vertical to an approximate depth of 4097'.

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

3,291' Lateral

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: WEU4

County Tyler

4/01/18

RECEIVED
Office of Oil and Gas

MAY **09** 2018 Page 1 of 2

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, WEU4H11, 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.

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:

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

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.

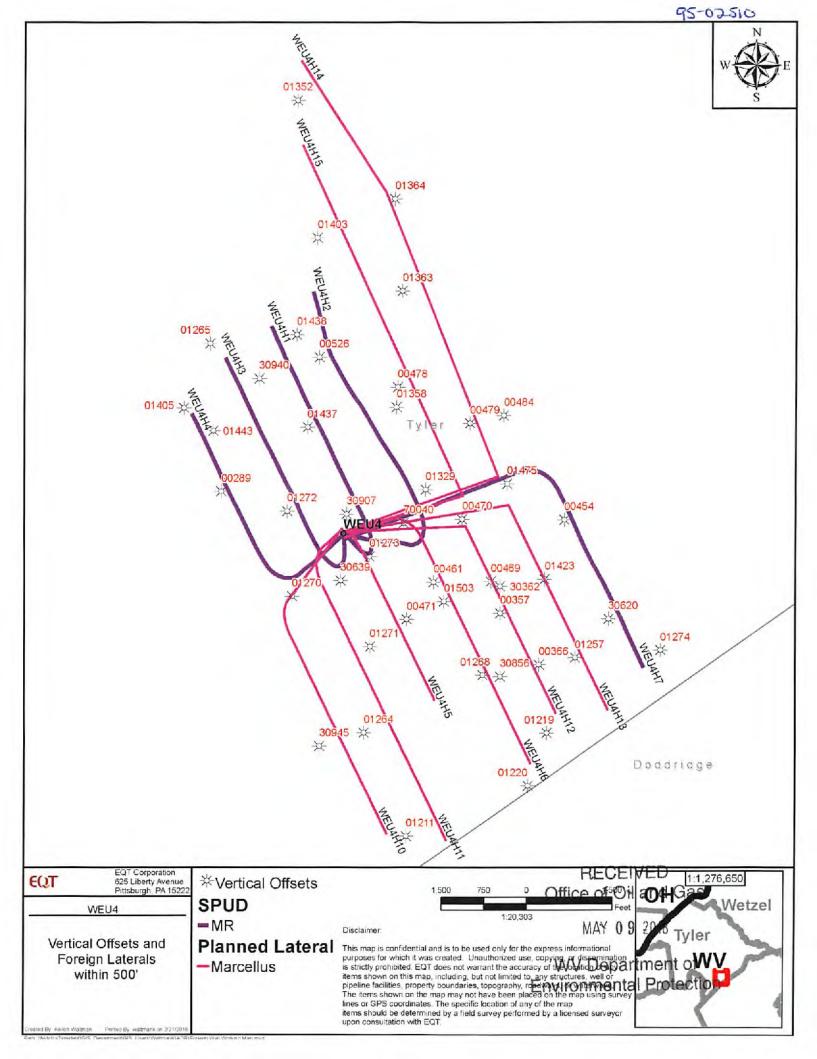
Office of Oil and Gas

MAY 0 9 2018
Page 2 of 2
WV Department of
Environmental Protection

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		406 J L ASH 1		1/17/1902		•	30907
47095303620000	9/2/1944		HOPE NATURAL GAS	1022	GR	ABD-GW	39.3640		1963 HAMMETT HEIRS 1			HURON LOWER	2661	
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			2565	
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	
47095306390000	6/14/1950	8/12/1911	HOPE NATURAL GAS	956	GR	ABD-GW	39.3643		2261 S M JONES		6/17/1911		1999	
47095004540000	10/28/1949	6/27/1913	HOPE NATURAL GAS	1007	GR	ABD-GW	39.3672		2958 HATTIE B KEYS			HURON LOWER	2886	
47095309450000	12/7/1968	5/21/1914	CONSOLIDATED GAS SUPPLY CORPORATION			UNKWN	39.3563		3420 KEYS HEIRS		4/21/1914			30945
47095002890000	10/24/1962	6/18/1960	STONESTREET LANDS	830	GR	ABDOGW	39.3686		1 J L ASH	5/10/1960		BIG INJUN /SD/	1908	
47095003570000	10/23/1974	9/1/1962	LENNOX OIL & GAS	947	GR	ABD-GW	39.3627		2 W A BRITTON	7/18/1962	8/2/1962		2010	
47095004610001		9/21/1973	EQUITABLE GAS COMPANY	919	GR	SWDOP	39.3642	-80.8153	5488/1 LUCY DAVIS	8/10/1973		DEVONIAN /SD/	2556	
47095004700001		8/28/1974	EQUITABLE GAS COMPANY	1027	GR	GSTGW	39.3672		1 LUCY DAVIS	3/24/1974	4/3/1974		2657	
47095004690001		1/17/1975	EQUITABLE GAS COMPANY	999	GR	SWDOP	39.3642		5491 CARL PERKINS			DEVONIAN /SD/	2659	
47095004710001		8/26/1975	EQUITABLE GAS COMPANY	933	GR	SWDOP	39.3624		5495 R E MOORE			GORDON /SD/	2576	
47095003660001		3/19/1975	EQUITABLE GAS COMPANY	914	KB	SWDOP	39.3602		3/5493/ CARL PERKINS			MISSISSIPPIAN		00366
47095004780000		9/1/1976	EQUITABLE GAS COMPANY	1049	GR	GAS	39.3736	-80.8175	6229 CARRIE ROBINSON	7/18/1976		BIG INJUN /SD/		00478
47095004790000		7/1/1977	EQUITABLE GAS COMPANY	1010	GR	GSTG	39.3718		5503 ADDIE KEYS	5/17/1977		GANTZ /SD/	2417	
47095005260000		4/23/1980	EQUITABLE GAS COMPANY	1045	GR	GSTG	39.3750	-80.8224	5507 B W PIESON	8/2/1979	8/17/1979		2170	00526
47095012110000		10/10/1987	CONSOL GAS COMPANY	970	KB	GAS	39.3519	-80.8170	2 KEYS AUSTIN I	9/16/1987		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	GA5	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			CONSOL GAS COMPANY	1008		GAS	39.3808	-80.8225	2 LEGRANDE MARVIN	7/23/1990	8/2/1990	DEVONIAN /SH/	5210	01403
47095014230000			CONSOL GAS COMPANY	1166	KB	GAS	39.3643	-80.8084	1 SINGER	8/15/1990	8/25/1990	DEVONIAN /SD/	5225	01423
47095013640000			CONSOL GAS COMPANY	1065	KB	GAS	39.3826	-80.8177	2 ANN FAYE	9/1/1990	9/11/1990	DEVONIAN /SD/	5200	01364
47095014370000			CONSOL GAS COMPANY	982		GAS	39.3716	-80.8231	1 DOAK CLARA ETAL & SMITH	10/23/1990	11/2/1990	DEVONIAN /SD/	5100	01437
47095014430000			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			CONSOL GAS COMPANY	1004		GAS	39.3761	-80.8238	2 DOAK CLARA ETAL & SMITH	11/29/1990	12/9/1990	DEVONIAN /SD/	5100	01438
47095012740000			CONSOL GAS COMPANY	1038		GAS	39.3609	-80.8012	1 WEEKLEY ISAIAH	12/24/1990	1/3/1991	DEVONIAN /SD/	5100	01274
47095014750000			CONSOL GAS COMPANY	1192		GAS	39.3689		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		1 PURSLEY A A	10/4/1992	10/14/1992	DEVONIAN /SD/	5100	01503
47095309400000	7/5/1966		HOPE NATURAL GAS			PSEUDO	39.3740		1489 BOWERS & DAVIS					30940
47095700400000		-4	CARTER OIL COMPANY			PSEUDO	39.3670		1 J L ASH					70040
4709500484		7/20/1977		1137		STORAGE	39.3722							00484
4709501352		12/1/1989	ANVIL OIL	1096	GR	GAS	39.3874	-80.8237					5170	01352

RECEIVED
Office of OH and Gas
MAY 0 9 2018
WV Department of
Environmental Protection

95-02510



API Number 47 - 95 - 02510
Operator's Well No. WEU4H12

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 306686	
Talka dani of Carra Mintalia S	/est Union	_
Do you anticipate using more than 5,000 bbls of water to complete the proposed wel	I work? Yes No	
Will a pit be used? Yes V No	247 - 10 - 22 - 10 2 - 10 - 10 - 10 - 10 - 10 - 1	
If so, please describe anticipated pit waste: flowback and residual solids	*	
Will a synthetic liner be used in the pit? Yes Vo No If so,	, what ml.? 60	0
Proposed Disposal Method For Treated Pit Wastes:	Oak	7/14-18
Land Application	CODI	5-14-18
Underground Injection (UIC Permit Number 0014, 8462,	4037 5/14/2018)
Reuse (at API Number Various Off Site Disposal (Supply form WW-9 for disposal locati Other (Explain	on)	_
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill or prepared for transportation to an off-site dispose	ultings from the drilling fluid. The drill cuttings are then all 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		7
-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 Atlached List	Savidusty (1975)	_
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill West Virginia solid waste facility. The notice shall be provided within 24 hours of rejudere it was properly disposed.	l cuttings or associated waste rejected at jection and the permittee shall also discl	any ose
I certify that I understand and agree to the terms and conditions of the GEN on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of 1 provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am far application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and compensations for submitting false information, including the possibility of fine or imprison	Environmental Protection. I understand on of the general permit and/or other ap- amiliar with the information submitted those individuals immediately responsi- mplete. I am aware that there are sig-	that the plicable on this ible for
Company Official Signature		-
Company Official (Typed Name) Erin Spine		
Company Official Title Regional Land Manager	Office	RECEIVED of Oil and Gas
Subscribed and sworn before me this 4 day of May	, 20 18 MA	Y 1 8 2018
Alleca & Wanstreet		/ Department of Inmental Protection
My commission expires 4-7-2020		

EQT Production Water plan

4709502510

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

RECEIVED
Office of Oil and Gas

MAY 09 2018

95-02510

WW-9 Attachment

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

100000

 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.

RECEIVED Office of Oil and Gas

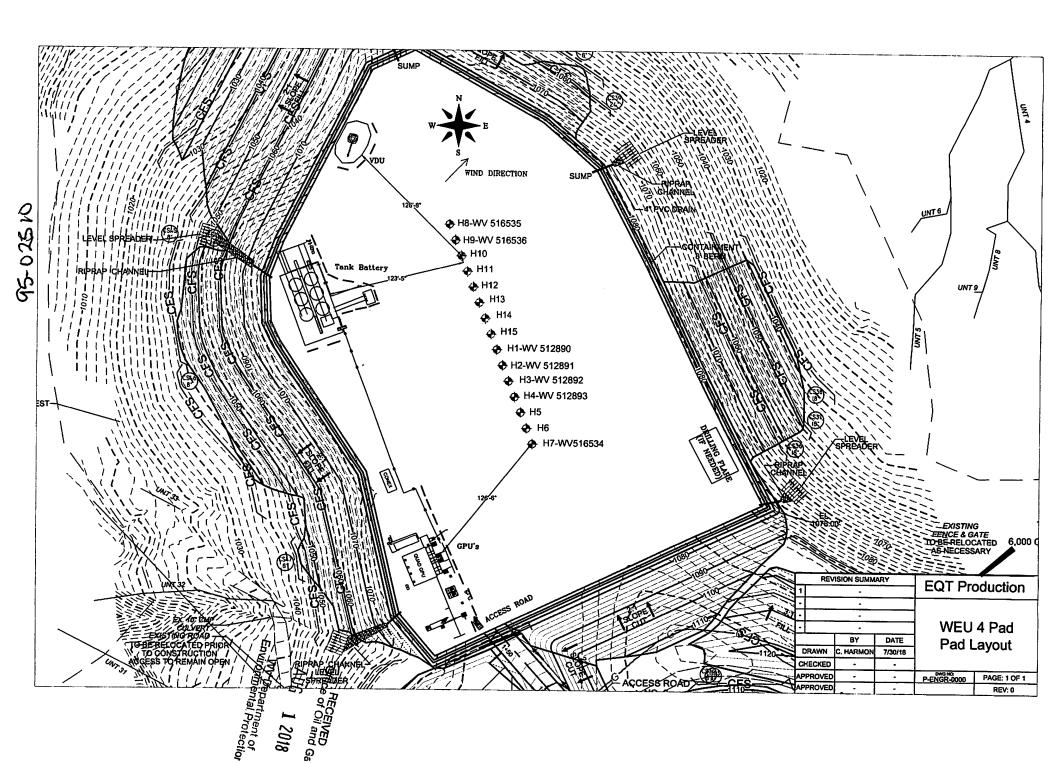
MAY 1 8 2018



Form WW-9

Operator's Well No. WEU4H12

Proposed Revegetation Tre				100000000000000000000000000000000000000
	atment: Acres Disturbed	No Additional Prevegetation pl	6.3	
Lime 3	Tons/acre or to corre	ect to pH 6.5		
Fertilizer type Gr	ranular 10-20-20			
Fertilizer amount	1/3	lbs/acre		
Mulch 2		_Tons/acre		
		Seed Mixtures		
Т	emporary	Perma	nent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
KY-31	40	Orchard Grass	15	
Alsike Clover	5	Alsike Clover	5	
Annual Rye	15			
hotocopied section of invol	lyad 7 5! tanagraphia shoot		dimensions (L x W), and	
	lved 7.5' topographic sheet.			
rlan Approved by:	lved 7.5' topographic sheet.			
lan Approved by:	lved 7.5' topographic sheet.	95B14/2018		
lan Approved by:	lved 7.5' topographic sheet.	OCB 1		
lan Approved by:	lved 7.5' topographic sheet.	OCB 1		
lan Approved by:		OCB 1		
lan Approved by:		95/14/2018	Office	RECEIVED Gas
Photocopied section of involved hy: Comments: itle: Dil + Gor Zage itle: Comments:		95/14/2018 Date: 5-14-18	Office	





Site Specific Safety and Environmental Plan

EQT
WEU4 Pad
Alma
Tyler County, WV

WEU4HS WEU4HO	WEU4HIO WEU4HII WEU4HIQ	
MEU4H13 WEU	14 H14 WEU4H15	_

Date Prepared: February 16, 2018

EQT Production

Regional Land Supervisor

5/4/2018

WV Oil and Gas Inspector

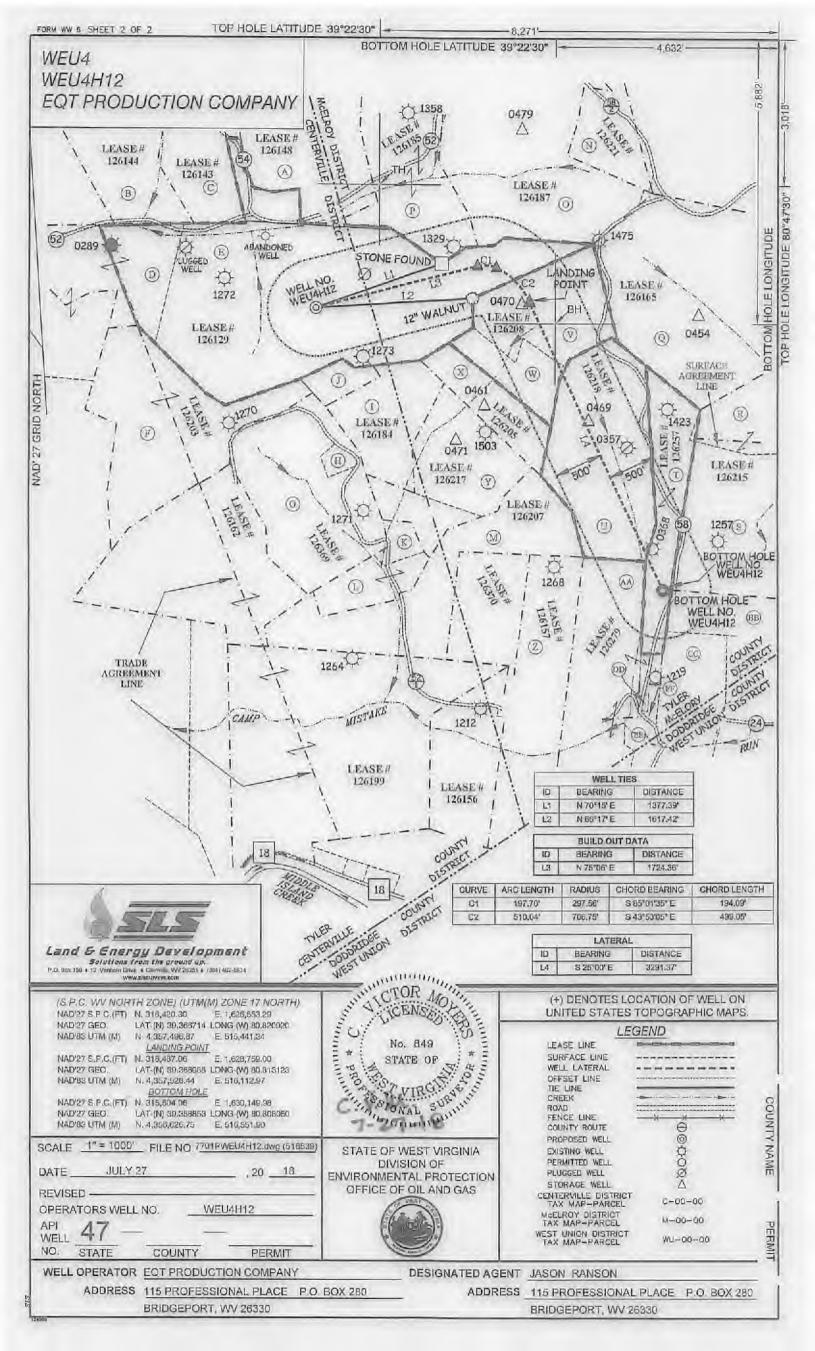
Oil + Gas English

5-14-18

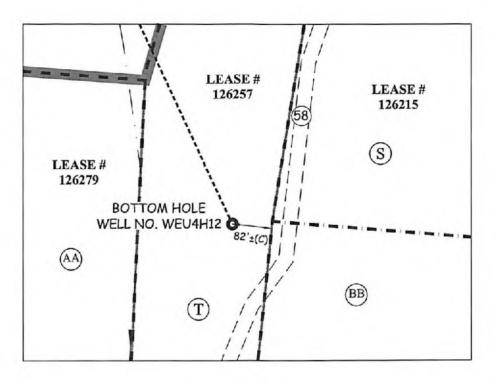
JeB 5/14/2015

RECEIVED Gas

MAY 1 8 2018



4709502510



LEGEND

LEASE LINE

RECEIVED

SURFACE LIOTTICE OF Oil and Gas

WELL LATERAL

MAY **09** 2018

CREEK

ROAD

WV Department of Environmental Protection

SCALE: 1 INCH= 200-FEET

JOB #: 7812

DRAWN BY: MGF

DATE: 04-13-18

SCALE: 1"= 200'

BOTTOM HOLE DETAIL FOR WEU4H12

THIS DOCUMENT WAS PREPARED BY: SLS LAND & ENERGY DEVELOPMENT FOR: EQT PRODUCTION COMPANY



0'	200'	400
100	(C) (A) (C) (C)	

Operator's Well No. WEU4H12

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

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

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

Lease Name or		000000		n 1.0
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attached

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

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

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

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

MAY 0 9 2018

Well Operator:	EQT Production Company
By:	Erin Spine WV Department of
Its:	Regional Land Supervisor Environmental Protection

Teresea R Hamilton
47 Organ Apunty 03:09:34 PM
Instrument Net 115:404 O
Date Recorded 11/03/2016
Document Type ASR
Pages Recorded 3
Book-Page 547-702
Recording Fee \$5.00

Additional

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement is entered into this 21st day of October, 2016, between Antero Resources Corporation, whose address is 1615 Wynkoop St., Denver, CO., 80202 ("Antero"), and EQT Production Company, a Pennsylvania corporation, with an office at 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222 ("EQT").

- 1. <u>PARTIES AND AGREEMENT REFERENCE</u>: Antero and EQT entered into a letter agreement ("Letter Agreement") dated October 21, 2016 (the "Commencement Date") outlining their intent to pursue definitive agreements allowing EQT to develop those certain oil and gas leases controlled by Antero in Tyler County, WV and described on Exhibit "A" attached hereto and by this reference made a part hereof.
- 2. <u>TERM</u>: The rights granted in the Letter Agreement will terminate upon the earlier of (i) two years from the Commencement Date, or (ii) the parties entering into the definitive agreement(s) described in the Letter Agreement.
- 3. <u>MEMORANDUM FOR RECORDING PURPOSES ONLY</u>: This Memorandum is for recording purposes only and does not supplement or supercede the parties' respective rights set forth in the Letter Agreement.

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date first above written.

and Ops Werkellus

ANTERO RESOURCES CORPORATION

Ву:

lto:

EQT PRODUCTION COMPANY

By: Steven Prelipp

Its: Senior Vice President - Business Development & Land

RECEIVED
Office of Oil and Gas

MAY 0 9 2018

DLN

;

STATE OF COLORADO;	
COUNTY OF DENVER:	
Before me,	be the to the ent for Given
AVERY HAMILTON [SEAL] Notary Public - State of Colorado Notary ID 20164026719 My Commission Expires Jul 14, 2020 Notary Public	<u>^</u>
COMMONWEALTH OF PENNSYLVANIA;	
COUNTY OFALLEGHENY:	
Before me,	sident, to the for the
[SEAL] (bustal a houman	<u>C</u>
COMMONWEALTH OF PENNSYLVANIA Notarial Seal Crystal A. Newman, Notary Public City of Philippingh, Allegheny County My Commission Expires Sept. 19, 2017	
THE THE PERMANANTAL ASSOCIATION OF MOTARIES	RECEIVED
U	ffice of Oil and Gas

MAY 09 2018

Prepared by: EQT Production Company 120 Professional Place, Bldg #2, Bridgeport, WV 26330

WW-6A1 attachment

Operator's Well No.

516539

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	
126129	Waco Oil & Gas Co. Inc., et al (current royalty owner)		**		
ILUILU	Willam 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		DB433/777	
	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	
126218	Darren IParks, et al (current royalty owner)		**		
IZUZIU	Carl D. Perkins, et ux (original lessor)	Equitable Gas Company		DB 198/396	
	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	
126257	Thomas E & Richard S Martin (current royalty owner)		**		
IZUZJI	Daisy Martin and Eli B. Martin (original lessor)	M.S. Lantz		197/259	
	M.S. Lantz	Columbia Gas Transmission Corp		197/225	
	Columbia Gas Transmission Corp	Columbua Natural Resources, Inc		291/175	
	Columbia Natural Resources, Inc	Chesapeake Appalachia, LLC		349/536	
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc		363/391	
	Statoil USA Onshore Properties, Inc	Antero Resource Corporation	•	544/291	
	Antero Resources Corporation	EQT Production Company		547/702	permitting lett

^{**} Per West Virginia Code Section 22-6-8.

RECEIVED
Office of Oil and Gas

MAY 09 2018

Lessor	Lessee	Date	Acres	Book/Page	County	District	State
Daisy Martin and Eli B. Martin, her husband	M. S. Lantz	2/5/1973	28	197/259	Tyler	McElroy	West Virginia
Bonnic L. Hardway	Tenmile Land, LLC	7/23/2012	20.25	399/692	Tyler	McElroy	West Virginia
Douglas Kearns	Tenmile Land, LLC	4/18/2012	20.25	404/351	Tyler	McElroy	West Virginia

WV Department of Environmental Protection

C. さ S



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,

Rebecca Wanstreet

Landman I -Permitting

thecea Wantreet

RECEIVED Office of Oil and Gas

MAY 09 2018

WV Department of EQT Production | 2400 Ansys Drive- Suite 200 | Canonsburg PA 15 Avironmental Protection Date of Notice Certification: 05/07/2018

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

API No. 47- 95

Operator's Well No. WEU4H12

		V	- Vell Pad Name:	: WEU4
Notice has h				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provid	led the required	parties with the Notice Forms listed
	tract of land as follows:	_		
State:	W			41.341
County:	Tyler	N		496.873
District:	Centerville	Public Road Access		
Quadrangle: Watershed:	West Union	Generally used farm	n name: Donn	a J Peters
watersnea:	Tributary of Camp Mistake Run			
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface describequired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	thall contain the following information bed in subdivisions (1), (2) and ection sixteen of this article; (ii) to the fire pursuant to subsection (a) of this article were waived in we tender proof of and certify to the	nation: (14) A c I (4), subsection that the requirer , section ten of riting by the su	certification from the operator that (n (b), section ten of this article, the ment was deemed satisfied as a resu f this article six-a; or (iii) the notice surface owner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require		Notice Certific	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS		NO RECEIVED/
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or 🔳 NO PLAT SURVEY	WAS CONDU	UCTED RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFACE O	WNER
■ 4. NO	TICE OF PLANNED OPERATION			
■ 5. PUE	BLIC NOTICE			
■ 6. NO	TICE OF APPLICATION			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 Carty Eggal 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-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.

MAY 0 9 2018

By:

Certification of Notice is hereby given:

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

Well Operator: EQT Production Company

Erin Spine

Its: Regional Land Supervisor

Telephone: 304-848-0035 2200 Energy Drive

Canonsburg PA 15317

Facsimile: 304-848-0041

Email: espine@eqt.com

NOTARY PUBLIC ATE OF WEST VIRGII EBECCA L. WANSTREE Subscribed and sworn before me this 4 day of May

My Commission Expires

-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.

> RECEIVE! Office of Oil and Gas

> > MAY 09 2018

WW-6A (9-13) API NO. 47-4-7 0 9 5 0 2 5 1 0

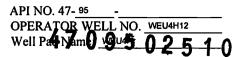
OPERATOR WELL NO. WEU4H12

Well Pad Name: WEU4

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 the	an the filing date of permit application.
Date of Notice: <u>577/2018</u> Date Permit Application Filed: <u>577/2</u> Notice of:	2018
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	0(b)
	IOD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located and gas leasehold being developed by the proposed well work, it described in the erosion and sediment control plan submitted pursu operator or lessee, in the event the tract of land on which the well particle work, if the surface tract is to be used for the placement, const impoundment or pit as described in section nine of this article; (5) where a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than thresubsection (b) of this section hold interests in the lands, the applicate records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not	ant may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any t notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	, .
☑ SURFACE OWNER(s) Name: See Attached	COAL OWNER OR LESSEE
Name: See Attached Address:	Name: See Attached Address:
Name:Address:	COAL OPERATOR Name: Address:
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached Address:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See Attached
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Z SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name: See Attached	Name:RECEIVED
Address:	*Please attach additional forms if necessary fice of Oil and Gas
	riease attach additional forms if necessary

MAY 09 2018



Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WV Department of Environmental Pro Julian

WW-6A (8-13)



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

RECEIVED
Office of Oil and Gas

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

WW-6A (8-13)

API NO. 47-95	<u>-</u>
OPERATOR WELL	NO. WEU4H12
Well Pari Tang:	U4 0 0
., 0.3	J 117 5 4 /

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.

RECEIVED
Office of Oil and Gas

MAY 0 9 2018

WW-6A (8-13) API NO. 47-95
OPERATOR WELL NO. WEU4H12
Well Pad Name: WE9 5 0 2 5 1 0

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.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRIGINIA REBECCA L. WANSTREET EQT PRODUCTION COMPANY PO 802 280

SRIDGEPORT, WV 26330
My commission expires April 07, 2020

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

Develoca development of Notary Public

My Commission Expires 4-7-2020

RECEIVED Office of Oil and Gas

MAY 09 2018

Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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

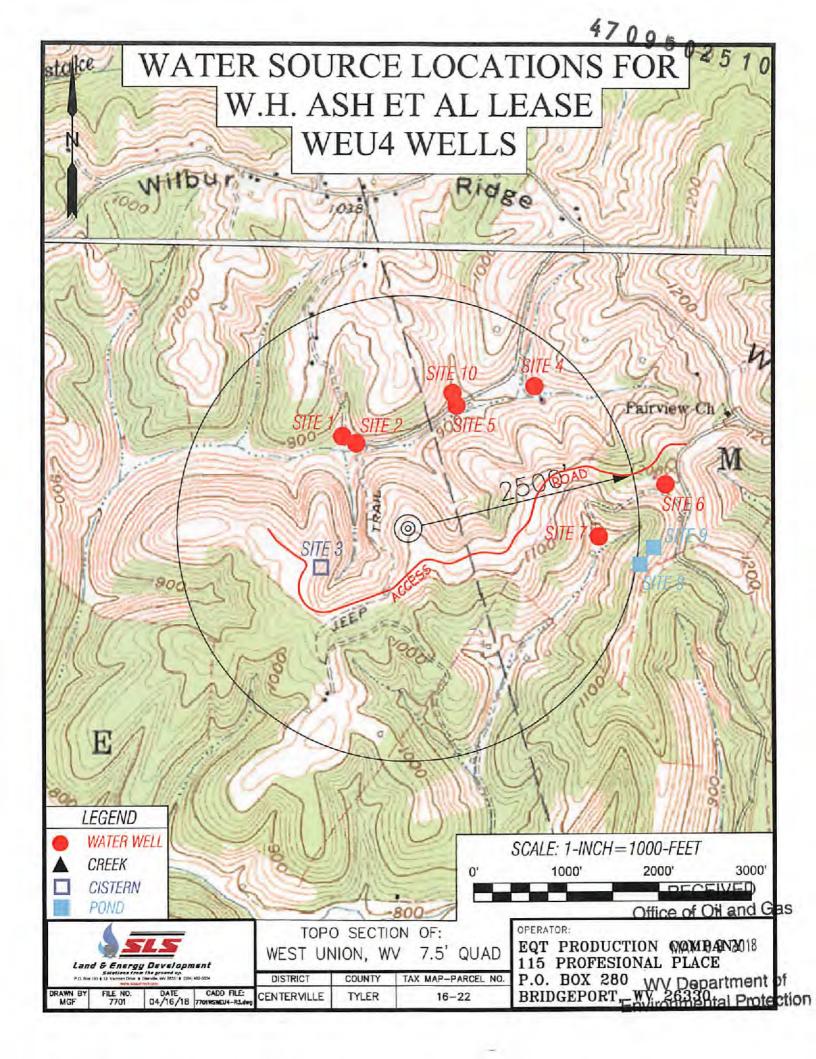
DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

Coal Owners:

ROSEMARY BRANDON 3013 DELEWARE AVE KENNER LA 70065

RECEIVED
Office of Oil and Gas

MAY 09 2018



Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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

RECEIVED
Office of Oil and Gas

MAY 0 9 2018

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.

receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the rof this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requiren subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephorand 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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Tyler UTM NAD 83 Northing: Sasting: 515441.341 Northing: 4357496.873 Donna J Peters W-18 Quadrangle: West Union Generally used farm name: Donna J Peters Tributary of Camp Mistake Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d	
DELIVERY 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 receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the rof this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirens subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telepho 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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: WUTM NAD 83 Easting: State4.341 Outhing: Tyler UTM NAD 83 Northing: Public Road Access: Ww-18 Quadrangle: West Union Generally used farm name: Donna J Peters This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if acsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d	
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the rof this subsection as of the date the notice was provided to the surface owner: *Provided*, however*, That the notice requiren subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephot 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):** 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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: **W** **UTM NAD 83** County: **Tyler** District: **Qenterville** Quadrangle: **West Union** West Union** Generally used farm name: **Denna J Peters** West Union** This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a decomposition-new-marked-ne<="" href="https://www.dep.wv.gov/oil-and-gas/pages/doddes-pages/day-</th><th></th></tr><tr><td>receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the rof this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requiren subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephorand 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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Tyler UTM NAD 83 Northing: Sasting: 515441.341 Northing: 4357496.873 Donna J Peters W-18 Quadrangle: West Union Generally used farm name: Donna J Peters Tributary of Camp Mistake Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d</td><td></td></tr><tr><td>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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Tyler UTM NAD 83 Easting: Northing: 4357496.873 Northing: West Union Public Road Access: W-18 Quadrangle: West Union Generally used farm name: Tributary of Camp Mistake Run Tributary of Camp Mistake Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection holocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d</td><td>nd for the purpose of
fies the requirements
requirements of this
s, telephone number,</td></tr><tr><td>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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Tyler District: Centerville Quadrangle: West Union Generally used farm name: Watershed: Tributary of Camp Mistake Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <td></td>	
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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Tyler District: Centerville Quadrangle: West Union Tributary of Camp Mistake Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection helocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d	
Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: W County: Tyler District: Centerville Quadrangle: West Union Watershed: Tributary of Camp Mistake Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection helocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d	
Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection he located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d	·
	ditional information tection headquarters,
Notice is hereby given by:	
Well Operator: EQT Production Company Authorized Representative: Erin Spine	
Address: 2200 Energy Drive Address: 2200 Energy Drive	
Canonsburg PA 15317 Canonsburg PA 15317	
Telephone: 304-848-0035 Telephone: 304-848-0035	
Email: espine@eqt.com Email: espine@eqt.com	
Facsimile: 304-848-0041 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 of 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.

MAY 09 2018

Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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

WW-6A5 (1/12)

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

Date of Hotic		o later than the filing date of permit pplication Filed: 05/07/2018	application.
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(c)	
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY	
return receipt the planned of required to be drilling of a l damages to th	requested or hand delivery, give the surfaperation. The notice required by this so provided by subsection (b), section ten chorizontal well; and (3) A proposed surface surface affected by oil and gas operation	ace owner whose land will be used for ubsection shall include: (1) A copy of this article to a surface owner whose ace use and compensation agreement on to the extent the damages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
	eby provided to the SURFACE OWNE s listed in the records of the sheriff at the		
Address:		Address:	
	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose w		
County: District: Quadrangle: Watershed:	Tyler Centerville West Union Tributary of Camp Mistake Run	Public Road Access: Generally used farm name:	4357496.873 WV-18 Donna J Peters
District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r	Tyler Centerville West Union Tributary of Camp Mistake Run Shall Include: Vest Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and coded by oil and gas operations to the exterelated to horizontal drilling may be obtal located at 601 57th Street, SE, Char	Public Road Access: Generally used farm name: otice shall include: (1)A copy of this surface owner whose land will be ompensation agreement containing and the damages are compensable undained from the Secretary, at the WV	4357496.873 WV-18
District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def Well Operato	Tyler Centerville West Union Tributary of Camp Mistake Run Shall Include: Vest Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and cell the code of the co	Public Road Access: Generally used farm name: otice shall include: (1)A copy of this surface owner whose land will be ompensation agreement containing and the damages are compensable undained from the Secretary, at the WV	4357496.873 WV-18 Donna J Peters code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r headquarters, gas/pages/def	Tyler Centerville West Union Tributary of Camp Mistake Run Shall Include: Vest Virginia Code § 22-6A-16(c), this noted by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and cell the code of the co	Public Road Access: Generally used farm name: otice shall include: (1)A copy of this surface owner whose land will be ompensation agreement containing and the damages are compensable undained from the Secretary, at the Wileston, WV 25304 (304-926-0450)	description with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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, where the perivacy officer at depprivacyofficer@wv.gov.

Office of Oil and Gas

MAY 09 2018

Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

4709502510

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Thomas J. Smith, P. E. Secretary of Transportation/Commissioner of Highways

Revised February 28, 2018

Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the WEU 4 Well Pad, Tyler County

WEU4H5

WEU4H6

WEU4H10

WEU4H11

WEU4H12

WEU4H13

WEU4H14

WEU4H15

Dear Mr. Martin,

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

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton P.E.

Day K. Clayton

Regional Maintenance Engineer Central Office Oil & Gas Coordinator

Cc:

Nick Bumgardner

EQT Production Company

CH, OM, D-6

File

RECEIVED
Office of Oil and Gas

MAY 09 2018

95-02510

Anticipated Frac Additives Chemical Names and CAS numbers

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

903 DMH 5/14/2018 5-14-18

> RECEIVED Office of Oil and Gas

MAY 1 8 2018

WVDEP OOG **ACCEPTED AS-BUILT** Wh 1 4/4/2016

PROJECT INFORMATION

TAX PARCEL

GOTTERVILLE DISTRICT

MAP 16

MICUROY DISTRICT

MAP 11

SURFACE OWNER

L'S & SANDRASTONDING

MOR ROY (INSTRUCT

TYLER COUNTY, W)

TOTAL PROPERTY AREA 19, 448 ACRES.

DXNNALL PETER
MICLED'S CONTERVILLE DISTRICT
TYLER COUNTY, WY
TOTAL PROPERTY AREA 11246 ACRES

RECHARD & YVONNE MET CALF CENTER VILLE DISTRICT TYLER COUNTY, MY TOTAL PROPERTY AREA \$1.578 ACRES

OIL AND GAS ROYALTY OWNER WACO DIE II DAS COMPANY, PIC. ET EL CENTENNILE DISTRICT TYLER COUNTY, WY TOTAL PROPERTY AREA 1321 ACRES

SITE LOCATION.
THE WELF STEED WORTH OF CAMP WISTARE OF COUNTY ROUTE SE, THE EMPANCE TO THE SITE APPROXIMATELY OF SME SOUTH MEET OF COUNTY ROUTE SOUTH MEET OF COUNTY ROUTE SOUTH FREEDOM.

LOCATION COORDINATES

WEIGH STEENTRANCE
LATITUDE 30.389178 LONGITUDE: 80.890214 SIAD 83)
LATITUDE 4.557,772 LONGITUDE 516,963 (LITM NAC AS MET ERIS)

WELLSCENTER OF WELL PAD LATITUDE 39.386639 LONGITUDE 80.82045 (HAD 83) LATITUDE 4,351,471 LONGITUDE 513,448 (LTM NAC) 63 METERS

WEB-4 FLOW CENTER OF FLOWBACK PIT LATITUDE 30:365395 LONGITUDE: 80:821021 (NAD 83) LATITUDE 4:357:350 LONGITUDE: 515-633 (LTM NAD 83 METERS)

WELL-4 FLOW DEVICE OF COMPLETION PIT
LATITUDE SYSTEMS LONGITUDE SUBSTITION BS)
LATITUDE 4 327 406 LONGITUDE 515 CD4 (LTM NAC AS METERA)

SITE DISTURBANCE COMPUTATIONS

TOTAL ASSIGNT DISTURBANCE = 35.81 ACRES

GENERAL DESCRIPTION

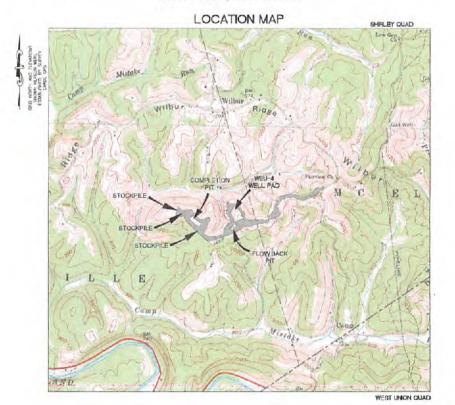
THE WELLS PAD AND PIT'S ARE RENO CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL IMPROBLING SHALE GAS WELLS.

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

WEU-4 AS-BUILT SITE PLAN **EQT PRODUCTION COMPANY**

PERMITTED WELLS: API# 47-095-02278, 47-095-002279, 47-095-02280, 47-095-02281. 47-095-02316, 47-095-02317 AND 47-095-02318 PROPOSED WELL NUMBERS: H6-WV512894, H6-WV512895, H8-WV516535. H9-WV516536, H11-WV516538, H13-WV516540, H14-WV516600 AND H15-WV516601

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

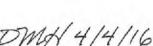


LIST OF DRAWINGS

- 1. DOVER SHEET
- 2 INDEX SHEET
- 3 WENT ACCESS BOAD
- 4 MEU-4 FLOWRACK PIT / PAD
- T. WESSELLOOMS ETTON BY LISTOCKES F. # - ACCESS ROAD PROFILE
- 7 ACCESS ROAD PROFILE, FLOWBROK PIT AND COMPLETION RIT PROFILES



DMH 4/4/16





DATE: 03/02/2016 SCALE 1"- LOOG"

ESIGNED BY KILS. H P NO 720 MEET 1 OF 7



