

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 WEU4H11 47-095-02509-00-00

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 hat WEU4H11 Operator's Well Number: Farm Name: DONNA J. PETER U.S. WELL NUMBER: 47-095-02509-00-00 Horizontal 6A New Drill Date Issued: 8/3/2018

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit</u> 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: 47-095-02509

PERMIT CONDITIONS

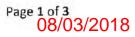
11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

API NO. 47- 95 - 02509

OPERATOR WELL NO. WEU4H11 Well Pad Name: WEU4

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

1) Well Operator: EQT Production	on Company	306686	Tyler	Centervi	West Union
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: WEU	4H11	Well P	ad Name: W	EU4	
3) Farm Name/Surface Owner: Do	nna J Peter	Public Ro	ad Access: <u>\</u>	WV-18	
4) Elevation, current ground: <u>10</u>	79 El	evation, propose	d post-constru	action: 1079	
5) Well Type (a) Gas <u>x</u> Other	Oil	Un	derground Sto	orage	
(b)If Gas Shallo	w x	Deep	1		
Horizo	ontal X		0	317	ARB,
6) Existing Pad: Yes or No Yes				Y 11/1	7/31/2018
7) Proposed Target Formation(s), D Target formation is Marcellus at a dept					et pressure of 2747 PSI
8) Proposed Total Vertical Depth:					
9) Formation at Total Vertical Dep		3			
10) Proposed Total Measured Dept	h: 12289				
11) Proposed Horizontal Leg Leng	th: 5024			_	
12) Approximate Fresh Water Strat	ta Depths:	132,175,186,2	04		
13) Method to Determine Fresh Wa	ater Depths:	By Offset wells			
14) Approximate Saltwater Depths	: 1128,1219,	1222			
15) Approximate Coal Seam Depth	ns: 230,281,6	96			
16) Approximate Depth to Possible	e Void (coal m	ine, karst, other):	None repo	rted	
17) Does Proposed well location co directly overlying or adjacent to an		ms Yes		No X	
(a) If Yes, provide Mine Info: N	Name:			Office	RECEIVED
Ι	Depth:			AU	
S	Seam:				
(Owner:			Environ	Department of mental Protection



WW-6B (04/15)

API NO. 47- 095 - 02509

OPERATOR WELL NO. WEU4H11 Well Pad Name: WEU4

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (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	12289	12289	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							

					96B 1/31/2018	(
ТҮРЕ	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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:	Office of AL
Depths Set:	Office of Office

WV Department of Environmental Protection

Page 2 of 3 08/03/2018 WW-6B (10/14)

API NO. 47- 95	- 02509
OPERATOR W	ELL NO. WEU4H11
Well Pad Nar	ne: WEU4

Dr.H. Jes 131/2018

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 5582'. 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 slurnes. 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: Oil and Gas formation. 60 % Calcuim Carbonate. Acid solubility

WV Department of

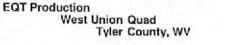
25) Proposed borehole conditioning procedures: Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surfacescion Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

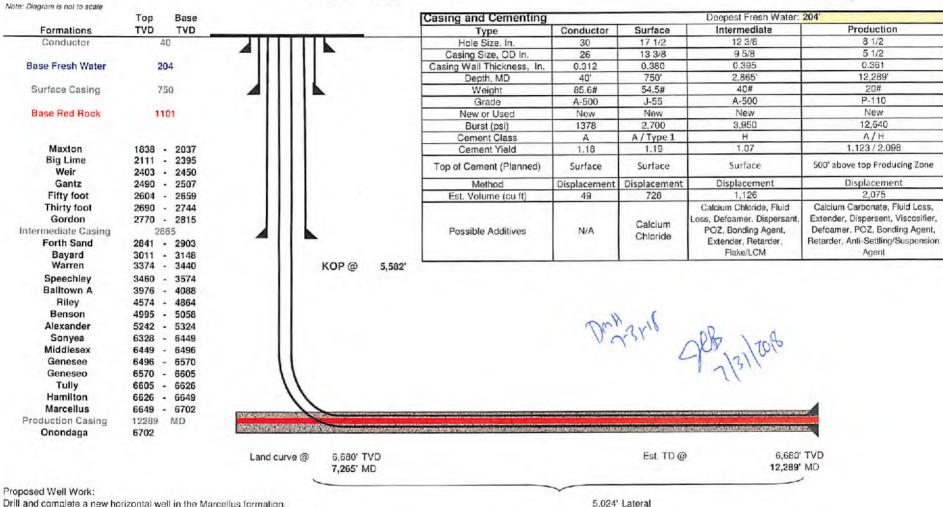
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

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RECEIV	~	Ea
fice R	50	onmental
0	A	niron
		E

Well (WEU4H11)





Azimuth

Vertical Section

Enertia #

155

5756

516538

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

Drill the vertical to an approximate depth of 5582'.

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

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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WV Department of Environmental Protection

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

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WV Department of Environmental Protection

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, 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 prefrac well conditions
- 2. 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
- 2. Reporting

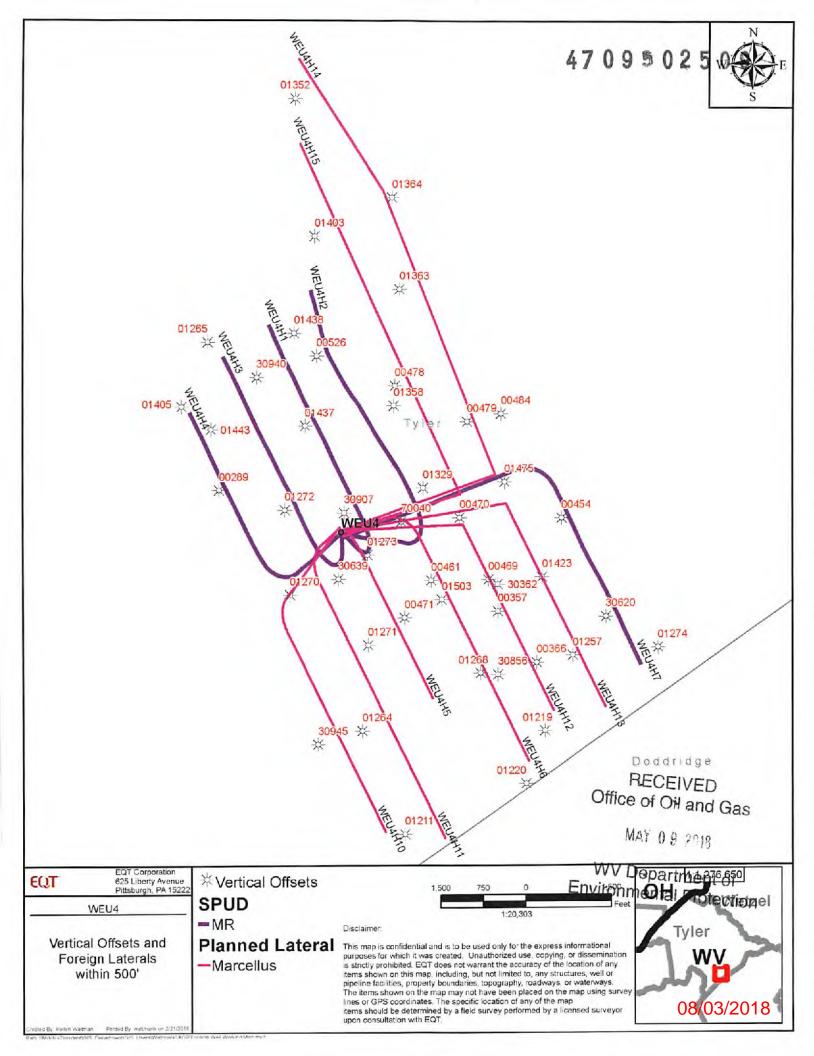
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

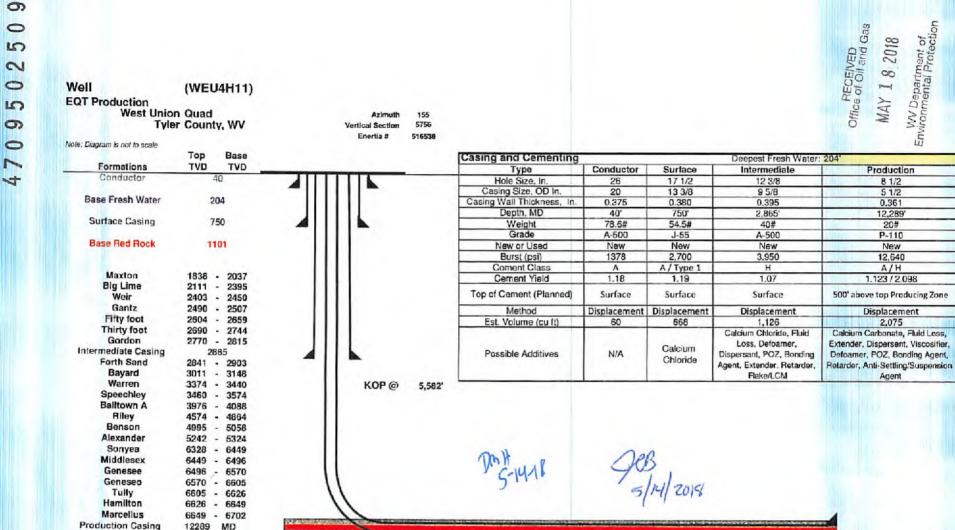
> WV Department of EnvironmenterProtection

API Number	Abandoned Date	Completion Date	Current Operator	Elevation	Elevation Refere Final	itatus Lat	Long	١	Well Name	Permit Date	SPUD Date	TD Formation	Total Depth	Permit
47095309070000	11/8/1959	2/16/1902	HOPE NATURAL GAS		UNKV	'N 39.3	675 -80	0.8207 4	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-C	iW 39.3	640 -80	0.8112 1	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-C	iW 39.3	624 -80	0.8044 2	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-C	W 39.3	596 -80	0.8112 2	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-G	W 39.3	643 -80	0.8211 2	2261 S M JONES	6/2/1911	6/17/1911	POCONO		30639
47095004540000	10/28/1949	6/27/1913	HOPE NATURAL GAS	1007	GR ABD-G	W 39.3	672 -80	0.8072 2	2958 HATTIE B KEYS			HURON LOWER		00454
47095309450000	12/7/1968	5/21/1914	CONSOLIDATED GAS SUPPLY CORPORATION		UNKV	/N 39.3	563 -80	0.8224 3	3420 KEYS HEIRS		4/21/1914			30945
47095002890000	10/24/1962	6/18/1960	STONESTREET LANDS	830	GR ABDO	GW 39.3	686 -80	0.8285 1	1 J L ASH			BIG INJUN /SD/	1908	00289
47095003570000	10/23/1974	9/1/1962	LENNOX OIL & GAS	947	GR ABD-G	W 39.3	627 -80	0.8112 2	2 W A BRITTON	7/18/1962		, .,		00357
47095004610001		9/21/1973	EQUITABLE GAS COMPANY	919	GR SWDC	P 39.3	642 -80	0.8153 5	5488/1 LUCY DAVIS	8/10/1973	8/20/1973	DEVONIAN /SD/		00461
47095004700001		8/28/1974	EQUITABLE GAS COMPANY	1027	GR GSTG	N 39.3	672 -80	0.8135 1	1 LUCY DAVIS	3/24/1974				00470
47095004690001		1/17/1975	EQUITABLE GAS COMPANY	999	GR SWDC	P 39.3	642 -80	0.8117 5	5491 CARL PERKINS	6/2/1974	6/12/1974	DEVONIAN /SD/		00469
47095004710001			EQUITABLE GAS COMPANY	933	GR SWDC	P 39.3	624 -80	0.8169	5495 R E MOORE			GORDON /SD/		00471
47095003660001		3/19/1975	EQUITABLE GAS COMPANY	914	KB SWDC	P 39.3	602 -80	0.8087 3	3/5493/ CARL PERKINS			MISSISSIPPIAN		00366
47095004780000		9/1/1976	EQUITABLE GAS COMPANY	1049	GR GAS	39.3			5229 CARRIE ROBINSON	7/18/1976		BIG INJUN /SD/		00478
47095004790000			EQUITABLE GAS COMPANY	1010	GR GSTG	39.3	3718 -80	0.8130 5	5503 ADDIE KEYS	5/17/1977		GANTZ /SD/		00479
47095005260000			EQUITABLE GAS COMPANY	1045	GR GSTG	39.3	3750 -80	0.8224 5	5507 B W PIESON		8/17/1979			00526
47095012110000		10/10/1987	CONSOL GAS COMPANY	970	KB GAS	39.3	3519 -80	0.8170 2	2 KEYS AUSTIN I			DEVONIAN /SH/		01211
47095012190000		12/14/1987	CONSOL GAS COMPANY	937	KB GAS	39.3	3569 -80	0.8082 1	1 BAGLEY W M			DEVONIAN /SH/		01219
47095012200000		1/7/1988	CONSOL GAS COMPANY	827	KB GAS	39.3	3543 -80	0.8094 1	1 MORRIS BURKE		• •	DEVONIAN /SH/		01220
47095012570000		10/24/1988	CONSOL GAS COMPANY	1030	KB 2GAS	39.3	8605 -80	0.8065 1	1 FREEMAN			DEVONIAN /SD/		01257
47095012650000		11/8/1988	CONSOL GAS COMPANY	993	KB GAS	39.3	3757 -80	0.8292 1	1 DAVIS GARY W			DEVONIAN /SD/		01265
47095012640000		11/15/1988	CONSOL GAS COMPANY	936	KB GAS	39.3	3569 -80	0.8196 2				DEVONIAN /SD/		01264
47095012720000		2/2/1989	CONSOL GAS COMPANY	1024	KB GAS	39.3	8676 -80	0.8244 2	2 ASH HENRY & WILLIAM			DEVONIAN /SD/		01272
47095012710000			CONSOL GAS COMPANY	953	KB GAS	39.3			1 LORKOVICH LEONA			DEVONIAN /SD/		01271
47095012730000		2/17/1989	CONSOL GAS COMPANY	1130	KB GAS	39.3	3654 -80	0.8193 3	3 ASH HENRY & WILLIAM	1/23/1989		DEVONIAN /SD/		01273
47095012700000		2/23/1989	CONSOL GAS COMPANY	1072	KB GAS	39.3			1 SMITH WILLIAM	1/29/1989		DEVONIAN /SD/		01270
47095012680000		2/26/1989	CONSOL GAS COMPANY	1020	KB GAS	39.3			1 CUMBERLEDGE ASIA DELL			DEVONIAN /SD/		01268
47095013290000		12/9/1989	CONSOL GAS COMPANY	1086	KB GAS	39.3	3686 -80	0.8158 1	1 STONEKING L B			BENSON /SD/		01329
47095013580000		1/25/1990	CONSOL GAS COMPANY	1034	KB GAS	39.3	3726 -80	0.8176 2	2 KEYS ADDIE			DEVONIAN /SD/		01358
47095013630000		1/30/1990	CONSOL GAS COMPANY	1107	KB GAS	39.3	3782 -80	0.8172		12/30/1989		DEVONIAN /SD/		01363
47095014050000		8/1/1990	ALLIANCE PETROLEUM CORPORATION	986	KB GAS	39.3	3726 -80	0.8308	1-A NICHOLS/DAVIS	7/9/1990	7/19/1990			01405
47095014030000		8/17/1990	CONSOL GAS COMPANY	1008	KB GAS	39.3	3808 -80	0.8225 2	2 LEGRANDE MARVIN	7/23/1990	8/2/1990	DEVONIAN /SH/		01403
47095014230000		9/7/1990	CONSOL GAS COMPANY	1166	KB GAS	39.3	3643 -80	0.8084	1 SINGER	8/15/1990		DEVONIAN /SD/		01423
47095013640000		9/26/1990	CONSOL GAS COMPANY	1065	KB GAS	39.3	3826 -80	0.8177 2	2 ANN FAYE	9/1/1990		DEVONIAN /SD/		01364
47095014370000		12/11/1990	CONSOL GAS COMPANY	982	KB GAS	39.3	3716 -80	0.8231	1 DOAK CLARA ETAL & SMITH			DEVONIAN /SD/		01437
47095014430000		1/2/1991	CONSOL GAS COMPANY	1054	KB GAS	39.3	3715 -80	0.8290 0				DEVONIAN /SD/		01443
47095014380000		1/3/1991	CONSOL GAS COMPANY	1004	KB GAS	39.3	3761 -80	0.8238 2		11/29/1990		DEVONIAN /SD/		01438
47095012740000		2/1/1991	CONSOL GAS COMPANY	1038	KB GAS	39.3	3609 -80	0.8012	1 WEEKLEY ISAIAH	12/24/1990		DEVONIAN /SD/		01274
47095014750000		6/11/1992	CONSOL GAS COMPANY	1192	KB GAS	39.3			1 STONEKING BRUCE			DEVONIAN /SD/		01475
47095015030000		12/8/1992	CONSOL GAS COMPANY	998	GR GAS	39.3	3633 -80	0.8146	1 PURSLEY A A			DEVONIAN /SD/		01503
47095309400000	7/5/1966		HOPE NATURAL GAS		PSEU	00 39.3	3740 -80	0.8261	1489 BOWERS & DAVIS					30940
47095700400000			CARTER OIL COMPANY		PSEU	00 39.3	3670 -80	0.8171	1 J L ASH					70040
4709500484		7/20/1977	' EPC	1137	GR STOR	AGE 39.3	3722 -80	0.8109						00484
4709501352		12/1/1989	ANVILOIL	1096	GR GAS	39.3	3874 -80	0.8237						01352

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RECEIVED Office of Oil and Gas 4709502509





Proposed Well Work:

Onondaga

Drill and complete a new horizontal well in the Marcellus formation. Drill the vertical to an approximate depth of 5582'. Kick off and drill curve. Drill lateral in the Marcellus. Cement casing.

6702

Chester Control

Land curve @

6.680' TVD

7,265' MD

5.024' Lateral

Est. TD @

WV Department of Environmental Protection

MAY I 8 2018

Production

8 1/2

5 1/2

0.361

12,289

20#

P-110

New

12.640

A/H

1,123/2.098

Displacement

2.075

Agent

6,580' TVD

12,289' MD

WW-9	
(4/16) API Number 47 - 95	
Operator's W STATE OF WEST VIRGINIA	/ell No. weu4H11
DEPARTMENT OF ENVIRONMENTAL PROTECTI	ION
OFFICE OF OIL AND GAS	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PI	LAN
Operator Name EQT Production Company OP Code	306686
Watershed (HUC 10) Tributary of Camp Mistake Run Quadrangle West Union	
	Yes 🗸 No
Will a pit be used? Yes V No	
If so, please describe anticipated pit waste: flowback and residual solids	Dn H
Will a synthetic liner be used in the pit? Yes 🗸 No 🗌 If so, what ml.	? 60 5-14-18
Proposed Disposal Method For Treated Pit Wastes:	QCB 5/14/2018
	013 5/14/2018
Land Application Underground Injection (UIC Permit Number_0014, 8462, 4037	1 11100
 Reuse (at API Number Various)
 Off Site Disposal (Supply form WW-9 for disposal location) 	
Other (Explain	
Will closed loop system be used? If so, describe: Yes, The closed loop system will remove drill cuttings from the prepared for transportation to an off-site disposal facility.	ne drilling fluid. The drill cultings are then
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based,	etc. See Altached
-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 West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection ar where it was properly disposed.	or associated waste rejected at any nd the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL V on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environm provisions of the permit are enforceable by law. Violations of any term or condition of the	nental Protection. I understand that the
law or regulation can lead to enforcement action.	
I certify under penalty of law that I have personally examined and am familiar v	
application form and all attachments thereto and that, based on my inquiry of those incostaining the information, I believe that the information is true, accurate, and complete.	L am aware that there are significant
penalties for submitting false information, including the possibility of fine or imprisonment.	I an avaic dan mere are significant
9.01.	
Company Official Signature	
Company Official (Typed Name) Erin Spine	BECENTER
Company Official Title Regional Land Supervisor	Office of Oil and Ga
	MAY 1 8 2018
Ш рл.	
Subscribed and sworn before me this 4 day of May,	20 18 WV Department of Environmental Protection
fliecca Vonstreet Not	ary Public
My commission expires 4-7-2030	NOTARY PUBLIC
My commission expires 9-1-2020	REBECCA L. WANSTREET
	PO BOX 280 BHIDDGEPORT, WY SELLER
	00/03/2018

Form WW-9

Operator's Well No. WEU4H11

EQT Production Company

ed Revegetation Treatmen	t: Acres Disturbed No Additional	Prevegetation pH 6.3
Lime 3	Tons/acre or to correct to pH 6.5	
Fertilizer type Granula	r 10-20-20	
Fertilizer amount 1/3	lbs/acre	
Mulch 2	Tons/acre	

Seed Mixtures

Т	emporary	Perma	nent
Seed Type KY-31	Ibs/acre 40	Seed Type Orchard Grass	lbs/acre 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 ($L \times W \times D$) of the pit, and dimensions ($L \times W$), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: <u>Charge Slever</u> Comments:		
	1.1	RECEIVED Office of Oil and Gas
Title: Oil & Gas Inspector	Date: 5/14/2014	MAY 1 8 2018
Field Reviewed? () Yes	() No	WV Department of Environmental Protection

EQT Production Water plan

Offsite disposals for Marcellus wells

CWS TRUCKING INC.

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

LAD LIQUID ASSETS DISPOSAL INC.

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

TRI COUNTY WASTE WATER MANAGEMENT, INC.

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

Waste Management - Meadowfill Landfill

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

Waste Management - Northwestern Landfill

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

BROAD STREET ENERGY LLC

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

TRIAD ENERGY

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

KING EXCAVATING CO.

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

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WV Department or Environmental Protect

08/03/2018

4709502509

EQT Production Water Plan Offsite disposals for Marcellus wells

4709502509

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 Green County/Waynesburg Permit # TC-1009

Waste Management - Meadowbrook Landfill

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

Waste Management - Meadowbrook Landfill

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

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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

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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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Site Specific Safety and Environmental Plan

EQT	
WEU4 Pad	
<u>Alma</u>	
Tyler County, WV	

WEU4H5 WEU4HO WEU4HIO WEU4HI WEU4HIZ WEU4HI3 WEU4HI4 WEU4HI5

Date Prepared: February 16, 2018 EQT Production

Regional Land Supervisor Title

514/2018 Date

WV Oil and Gas Inspector

É 964 Spec Title

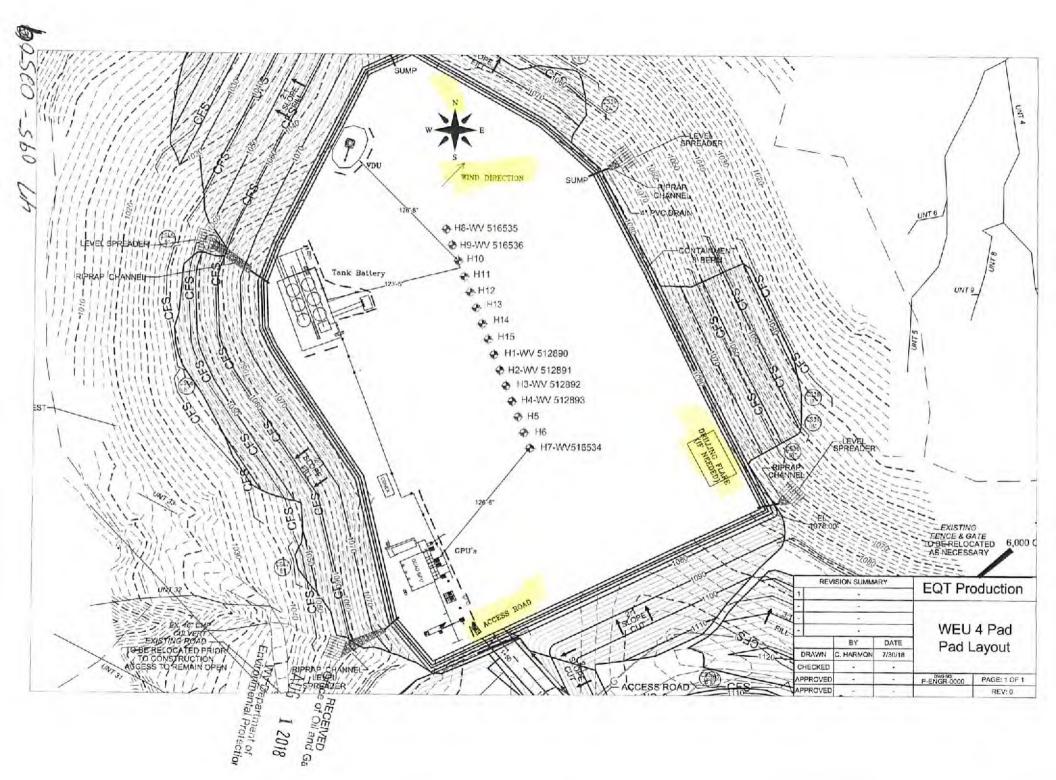
Date

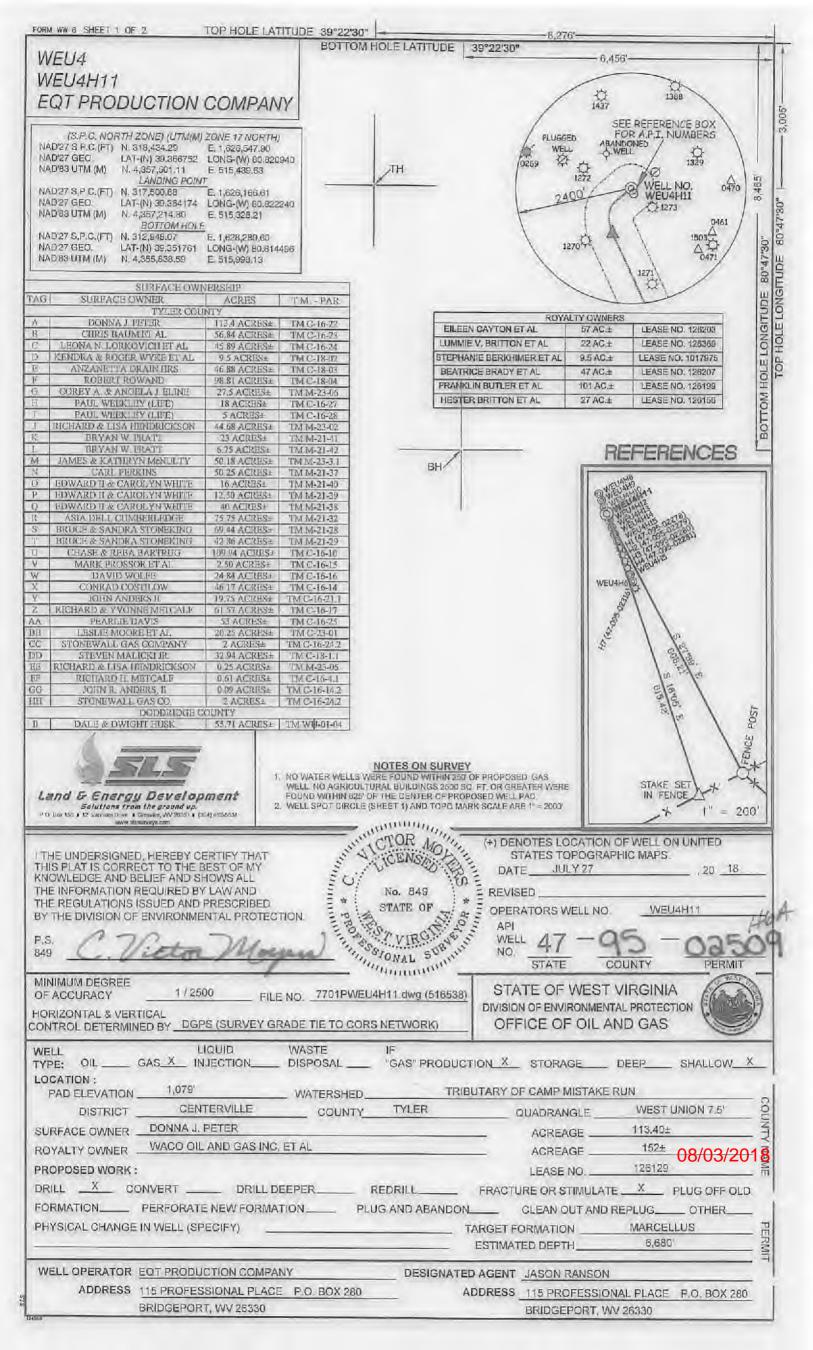
RECEIVED Office of Oil and Gas

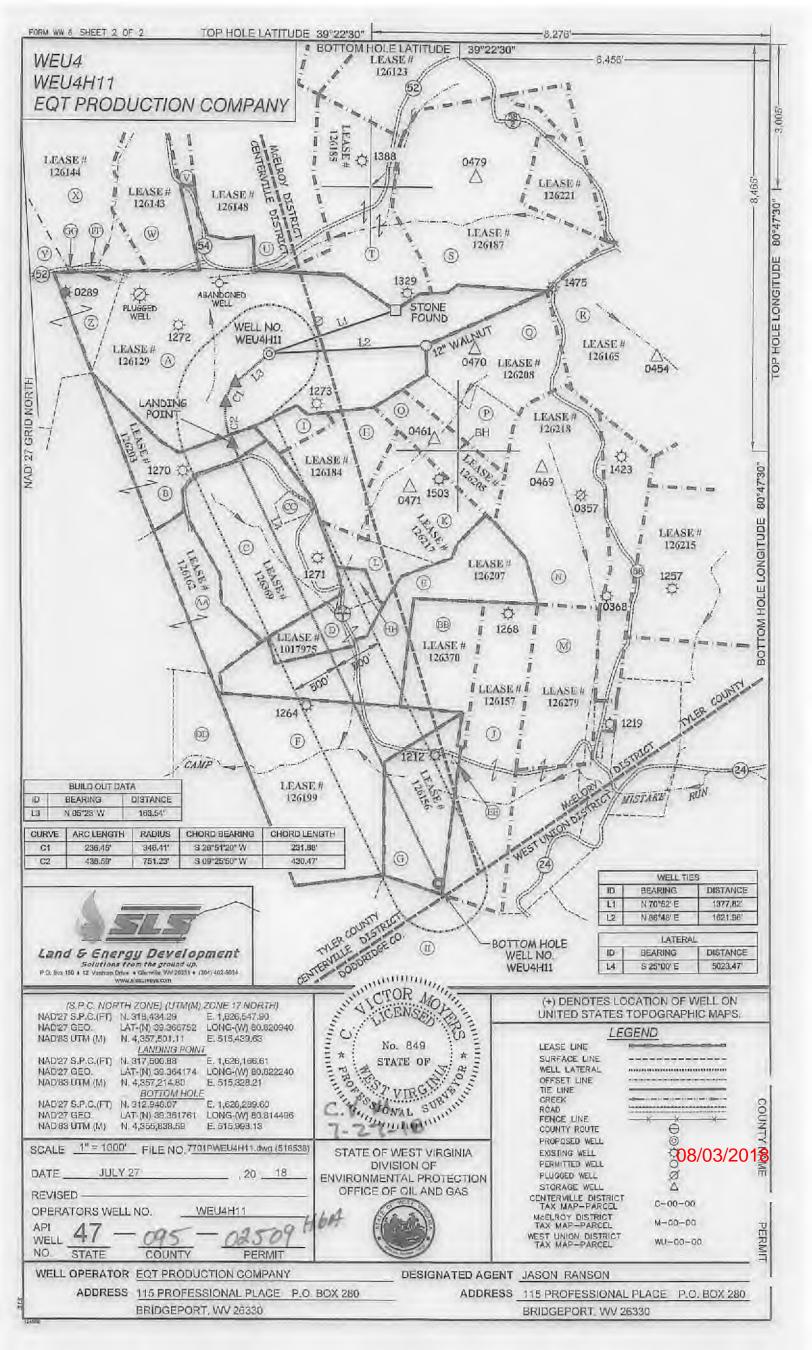
MAY 1 8 2018

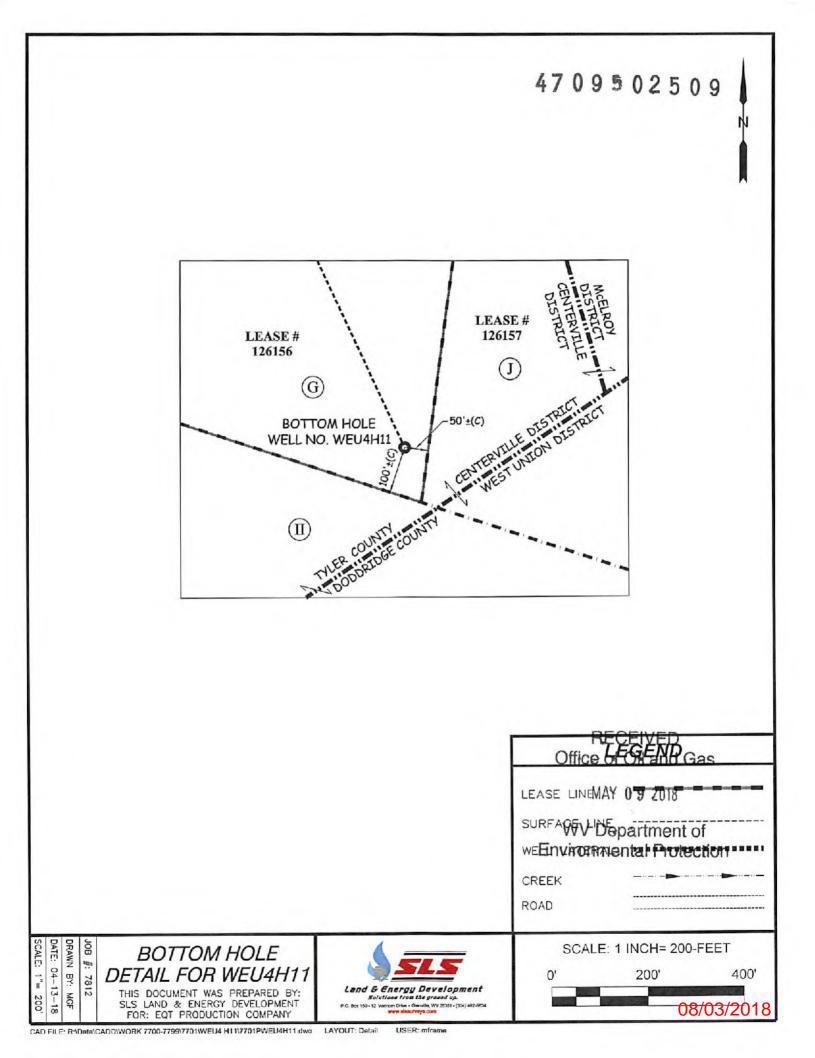
WV Department of Environmental Protection











WW-6A1 (5/13)

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

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

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

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

See Attached

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

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

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

WAY 0 9 2018 WV Department of

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Office of Oil and Gas

The applicant further acknowledges that any Office of Oil and Gas permit in newair or international permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	EQT Production Company
By:	Erin Spine
Its:	Regional Land Supervisor

Page 1 of 2

VW-6A1 att	achment	Operator's Well No.	WEU4H		
		Orașter Larra de	<u>47</u>	095025	0
ease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	v
<u>126129</u>	Waco Oil & Gas Co. Inc., et al (current royalty owner)		**		
	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	
<u>126203</u>	Eileen Cayton, et al (current royalty owner)		**		
111111	Ora E. Pratt, et al. (original lessor)	Equitable Gas Company		DB 196/360	
	Equitable Gas Company	Equitrans,Inc.		DB 274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable	•			
	Resources, Inc.	Equitrans, L.P.		DB 433/777	
	Equitrans, L.P.	EQT Production Company		DB 396/640	
<u>126369</u>	Lummie V Britton, et al (current royalty owner)				
	Ancil Weekley, et ux (original lessor)	Stonewall Gas Company		DB 274/569	
	Stonewall Gas Company	Dominion Appalachian Development, Inc		9/412	
	Dominion Appalachian Development, Inc	CONSOL Gas Appalachian Development Properties I	LC	9/131	
	CONSOL Gas Appalachian Development Properties LLC/CC	CNX Gas Company LLC		9/206	
	CNX Gas Company, LLC	EQT Production Company		592/251	
<u>1017975</u>	Stephanie Berkhimer, et al (current royalty owner)			545/51	
	Stephanie Berkhimer (original lessor)	EQT Production Company		343/31	
126207	Beatrice Brady, et al (current royalty owner)		**		
TLOLOT	Paul Weekly (original lessor)	Equitable Gas Company		DB 197/544	
	Equitable Gas Company	Equitrans,Inc.		DB 274/471	
	Equitrans, Inc.	Equitrans, LP		DB433/777	
	Equitrans, LP	EQT Production Company		DB 396/640	
126199	Franklin Butler, et al (current royalty owner)		**		
120133	Clarence W. Hylbert, et ux (original lessor)	Equitable Gas Company		DB 196/153	
	Equitable Gas Company	Equitrans, Inc.		DB 274/471	
	Equitable Cas Company/Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777	
	Equitrans, L.P.	EQT Production Company		DB 396/640	
<u>126156</u>	Hester Britton, et al (current royalty owner)				
	Asia Dell Cumberledge, et al (original lessor)	Equitable Gas Company		192/244	
	Equitable Gas Company	Equitrans, Inc.		DB 274/471	
	Equitrans, Inc./Equitable Gas Company/Equitable Resources, Inc.	Equitrans, L.P.		DB 433/777	
	· · · · · · · · · · · · · · · · · · ·			DB 396/640	

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

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MAY 09 2018

WV Department of Environmental Protection

EQT

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,

hecea Ukuntheet-

Rebecca Wanstreet Landman I -Permitting

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MAY 09 2018

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 05/07/2018

API No. 47- 95	
Operator's Well N	0. WEU4H11
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:	W	LITMANAD 92	Easting:	515439.627
County:	Tyler	UTM NAD 83	Northing:	4357501.11
District:	Centerville	Public Road Acces	ss:	WV-18
Quadrangle:	West Union	Generally used far	rm name:	Donna J Peters
Watershed:	Tributary of Camp Mistake Run			

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	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL OF OF NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	
5. PUBLIC NOTICE	
■ 6. NOTICE OF APPLICATION	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class III of the Advertisement with publication date verification or the associated Affidavit of Publication. The attached Worke 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 Mayer for a the return receipt card or other postal receipt for certified mailing.

WV Department of Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I <u>Erin</u> 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:	EQT Production Company	Address:	2200 Energy Drive
By:	Erin Spine		Canonsburg PA 15317
Its:	Regional Land Supervisor	Facsimile:	304-848-0041
Telephone:	304-848-0035	Email:	espine@eqt.com
	NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. WANSTREET EGT PRODUCTION COMPANY PD BOX 280		orn before me this <u>4</u> day of <u>May</u> 2018. 22000 Julie Notary Public pires <u>4-7-2020</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 <u>depprivacyofficer@wv.gov</u>.

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MAY 09 2018

WV Department of Environmental Protection

WW-6A	
(9-13)	

API NO. 47-95			_
OPERATOR WELL NO.	WEU4H11		
	N25	0	Ō
			•3

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.

	e of Notice: <u>5/7/2018</u> ice of:	Date Permit Applicat	ion Fi	iled: <u>5/7/2018</u>
7	PERMIT FOR ANY WELL WORK			OF APPROVAL FOR THE ION OF AN IMPOUNDMENT OR PIT
Deli	ivery method pursua	ant to West Virginia Co	de§2	22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	V	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
certi regis sedir the s oil a	ficate of approval for stered mail or by any n ment control plan requ surface of the tract on nd gas leasehold being	the construction of an imp nethod of delivery that rec ired by section seven of the which the well is or is pro g developed by the propos	oundm uires a nis artic posed t ed well	Filing date of the application, the applicant for a permit for any well work or for a nent or pit as required by this article shall deliver, by personal service or by a receipt or signature confirmation, copies of the application, the erosion and icle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the ll work, if the surface tract is to be used for roads or other land disturbance as ted 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)	COAL OWNER OR LESSEE	
Name: See Attached	Name: See Attached	
Address:	Name: See Attached Address:	
Name:	COAL OPERATOR	
Address:	Name:	
	Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance)		
Name: See Attached	SURFACE OWNER OF WATER WELL	
Address:	AND/OR WATER PURVEYOR(s)	
	Name: See Attached	
Name:	Address:	
Address:		
	OPERATOR OF ANY NATURAL GAS STORAC	GE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name: See Attached	Address:RECEIV	FD
Address:		
	*Please attach additional forms if Office, of ON	anu Gas

MAY 09 2018

WV Department of Environmental Protection 18

Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

4709502509

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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WV Department of Environmental Protection



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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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 the secretary ED hing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section for germit or other approval from the United States Army Corps of Engineers within any waters of the state of the state of 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 DecMAher (B9, 2019, 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 there of tary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items Environmental Protection WW-6A (8-13)

OPERATOR WELL NO. WEU4H11 Well Pad Name: WEU4

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 gualified 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 the secretary atter 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

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WV Department of

(304) 926-0450 Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

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OPERATOR WELL NO. WEU4H11 Well Pad Name: WEU4

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 <u>http://www.dep.wv.gov/oil-and-gas/Horizontal-</u> <u>Permits/Pages/default.aspx</u> 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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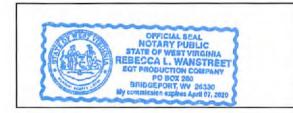
API NOL 47-90 9-9 025 09 OPERATOR WELL NO. WED4HN 09 Well Pad Name: WEU4

Notice is h	ereby given by:	5	2	1
Well Operat	or: EQT Production Company	1	-	h
Telephone:	304-848-0035	0	2	
Email espine	@eqt.com			

Address: 2200 Energy Drive			
Canonsburg F	A 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 <u>depprivacyofficer@wv.gov</u>.

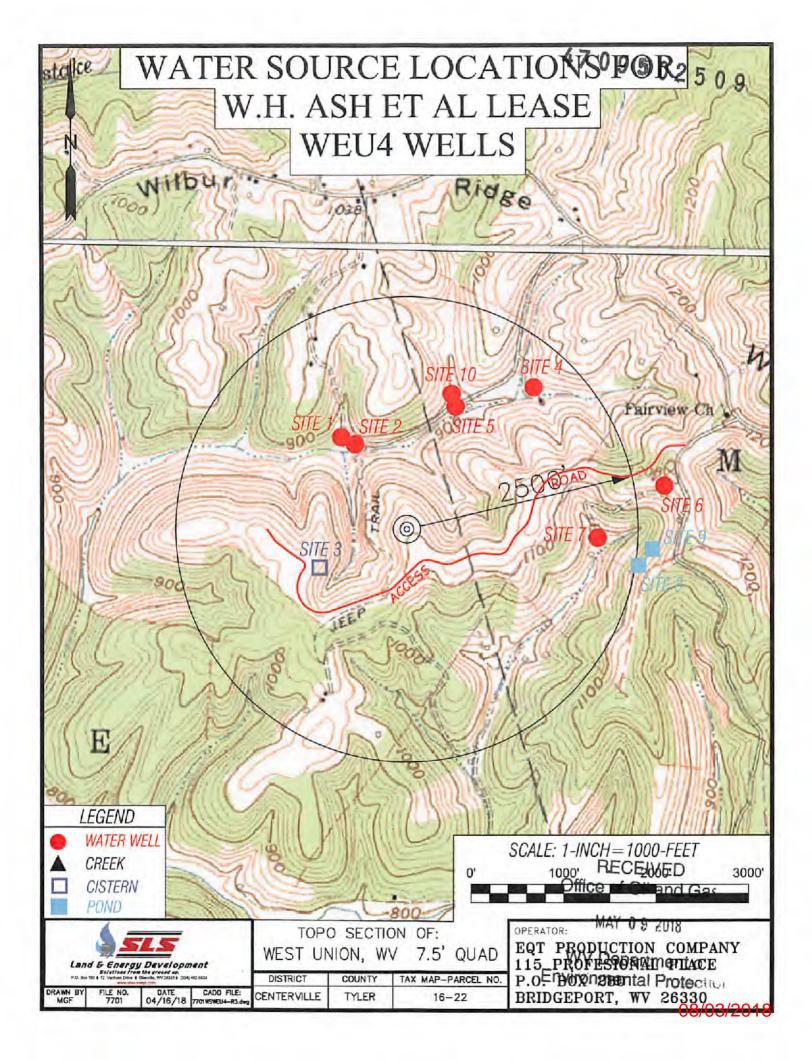


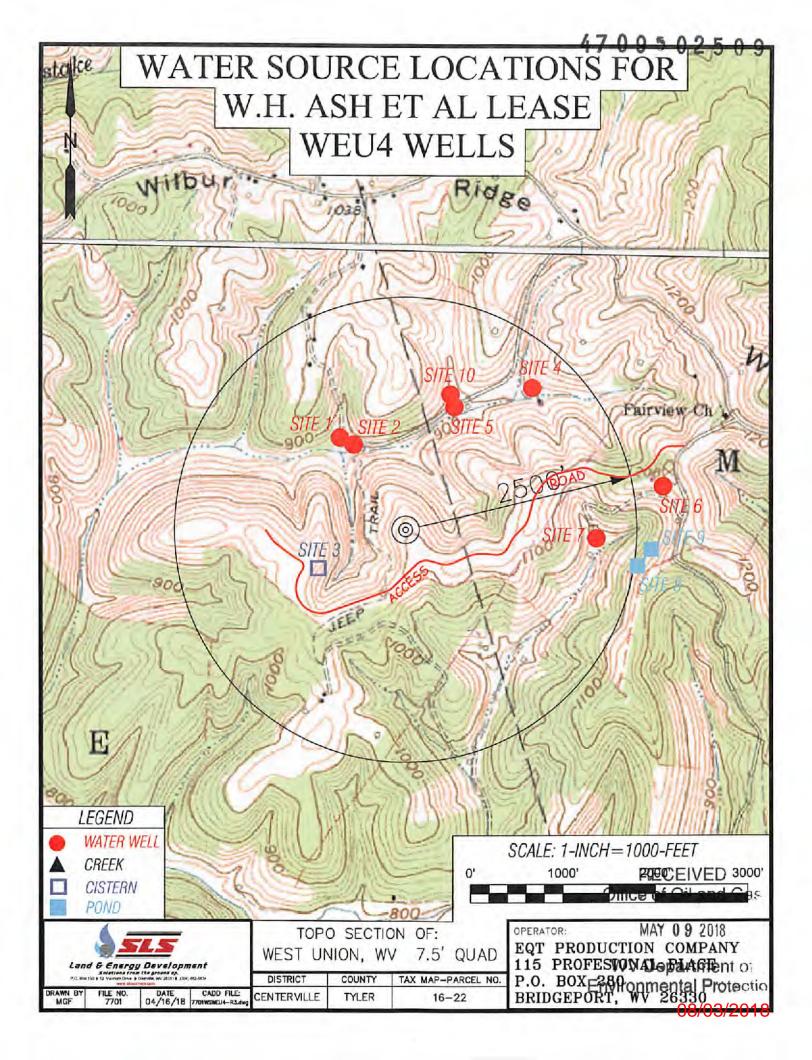
Subscribed and sworn before		
fleenad	Vanstreet	Notary Public
My Commission Expires	4-7-2020	n

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WV Department of Environmental Protection





SMITH LAND SURVEYING, INC.

P.O. BOX 150, GLENVILLE, WV 26351

4709502509

(304) 462-5634 • FAX 462-5656

WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

OPERATOR: EQT Production Company

<u>COMMENTS</u>

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	Spac	ing	1220'	Owner/	Occupa	nt:	Donna Peter	•		
Address:		lge Rd. /	Alma, WI	V 26320		_		Ph:	(304)-7:	58-4495
Field Contac	t Date:	04/23	/2015 Lo	cated:	Yes	Date	Located: 04/2	23/201	Source:	Water Well
If No, declined	by who _			Letter/No	otice Date:		/09/2015 2nd	04/23	/2015 Certifie	ed (3rd)04/17/2015
Comments:				80.823230						
	Tax Ma	p 16, Pa	rcel 22							
<u>.</u>	Previou	sly indic	ated sam	oling wante	ed. Has bee	en renot	ified for any ch	anges by	v certified lette	r on 4/16/18.
Site: 2	_ Spac	ing	1075'	Owner/	Occupa	nt:	Donna Peter			
				/ 26320				Ph:	(304)-75	58-4495
Field Contac	t Date:	04/23/	<u>/2015</u> Lo	cated:	Yes	Date	Located: 04/2	23/201	Source:	Water Well
If No, declined I	by who _			Letter/No	tice Date:	1st <u>04</u>	/09/2015 2nd	04/23	/2015 Certifie	ed (3rd)04/17/2015
Comments:	Lat : 39	.369112	Long : -8	80.822699						
	Tax Ma	р 16, Ра	rcel 22							
	Previou	sly indic	ated samp	oling wante	ed. Has bee	n renot	ified for any ch	inges by	certified lette	r on 4/16/18.
Site: 3	Spac	ing	1030'	Owner/	Occupar	nt:	Donna Peter			
Address:	733 Rid	ge Rd. A	1 <i>lma</i> , WV	26320				Ph:	(304)-75	j8-4495
Field Contact	t Date:	04/23/	2015 Lo	cated:	Yes	Date	Located: 04/2	23/2015	Source:	Spring
										ed (3rd)04/17/2015
Comments:	Lat : 39.	.365439,	Long : -8	80.823990						
	Tax Maj	p 16, Pa	rcel 22						· · · · · ·	
	Previou	sly indic	ated samp	oling wante	ed. Has bee	n renoti	fied for any ch	inges by	certified letter	r on 4/16/18.
Site:4	Spac	ing	2050'	Owner/	Occupar	nt:	Bruce & San	dra Sto	neking	
Address:				, WV 262				Ph:		
Field Contact	Date:	04/23/	2015 Lo	cated:	Yes	Date	Located: 04/2	3/2015	Source:	Water Well
										State Mittad 15
Comments:				0.815910						of Oil and Ga
	Tax Map	o 21, Par	cels 28 ar	nd 29						
	Previous	sly indica	ated samp	ling wante	d. Has bee	n renoti	fied for any cha	nges hv	certified lette	AAY 4,069,82018

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WV Department of Environmental Protection

Site: 5	Spacing] 1425'	Owner/Oc	cupant:	Bruc	e & San	dra Ston	eking	
Address:		04 BB, Elkin	• ·				Ph:	Unknow	
Field Contact	t Date: 0	4/23/2015 Lo	ocated:	Yes Da	ate Locat	ted: 04/2	3/2015	Source:	Water Well
									ed (3rd)04/17/2015
Comments:	Lat : 39.37	0270, Long : -	80.818867						
•	Tax Map 2	l, Parcels 28 a	ind 29						
<u></u>	Previously	indicated sam	oling wanted.	Has been re	enotified fo	r any cha	nges by c	certified lette	r on 4/16/18.
	<u> </u>		- ·-						
Site: <u>6</u>		g <u>2830'</u>	-		Edw	ard and			
Address:	the second s	Barnes Rd.,					- Ph: -		71-8521
Field Contac									
				e Date: 1s	st <u>04/09/2</u>	<u>015</u> 2nd	04/23/2	2015 Certifi	ed (3rd) <u>04/17/2015</u>
Comments:							_		
· · · · · · · · · · · · · · · · · · ·		1, Parcel 38, .							
	Previously	indicated sam	pling wanted.	Has been r	enotified fo	or any cho	inges by	certified lette	er on 4/16/18.
Site: 7	Spacin	g 2070'	Owner/O	ccupant.	гл	vard are	Carol	n White	
Address:		Barnes Rd.	-			vara ana	Ph:		71-8521
Field Contac						tod: 05/2	_		
If No. declined	hy who	<u>5/20/2015</u>	Letter/Notic	<u>1c3</u> Date: 1s		015 2nd	01/2015		ed (3rd)04/17/2015
Comments:	Lat - 30 3/	6470 Long ·	_ Letter/Notic	e Date. 13	<u></u>	210	04/23/2	Certin	eu (310) <u>04/17/2015</u>
		1, Parcel 38, .							
		indicated san		Has been r	anotified fo	an ann ab		contified latt	an an 1/16/19
	1700000		pring manieu.	nus been i	enonjieu je	n any ch	inges by	cernyieu iem	er on 4/10/18.
Site: <u>8</u>	Spacing	g <u>2540'</u>	Owner/O	ccupant:	Edw	ard and	Carolyn	White	
Address:	4316 Teen	Barnes Rd.,	_ Jefferson, M	D 21755			Ph:	(301)-3	71-8521
Field Contac	t Date: _0	<u>5/20/2015</u> L	cated:	Yes D	ate Loca	ted: <u>05/2</u>	20/2015	Source:	Pond
If No, declined	by who 🔄		Letter/Notic	e Date: 1s	t <u>04/09/2</u>	015 2nd	04/23/2	2015 Certifi	ed (3rd) <u>04/17/2015</u>
Comments:	Lat : 39.36	5666, Long : -	80.811781				_		
	Tax Map 2	1, Parcel 38, 3	9, & 40						
	Previously	indicated sam	pling wanted.	Has been r	enotified fo	or any cha	inges by a	certified lette	er on 4/16/18.
Site: 9	Spacing	7 26651	Owner/Oo	cunant.	E.d.,	and and	Canaban	White	
Address:	- ' '	Barnes Rd.,	-		Law	ard and	Ph:		71 0521
Field Contac								<u>(301)-3</u>	
If No, declined		<u>5/20/2015</u> L0			ate Locat				Pond
Comments:		6163, Long : -		e Date: 15	[<u>775</u> 2nd	04/23/2		ed (3rd) <u>04/17/2015</u>
Commonto.									
		1, Parcel 38, 3							
<u> </u>	Freviously	indicated sam	pling wantea.	nas been re	enotifiea jo	or any cha	nges by a	certified lette	r on 4/10/18.
Site: <u>10</u>	_ Spacing	3655'	Owner/Oc	cupant:	Chas	se E. & R	Reba J. E	Bartrug	
Address:	3163 Jeffer	son Run Rd.,	Alma, WV 2	6320			Ph:	Unknow	n
Field Contact	t Date: 0	5/20/2015 Lo	cated:	les Da	ate Locat	ed: 05/2	0/2015 s	Source:	Water Well
If No, declined b									ed (3rd)04/17/2015
Comments:	Lat: 39.37	0659, Long : -							CEIVED
	Tax Map 1	6, Parcel 10							of Oil and Gas
	Previously	indicated sam	oling wanted. I	Has been re	notified for	r any cha	nges by c	ertified lette	r on 4/16/18.
					<u> </u>				Y 09 2018
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Site:	Spacing	Owner/Occupant:	Conrad Costilow	4/093023
Address:	13310 Middle Island	d Rd., West Union, WV 26456	Ph:	Unknown
Field Contact	Date: <u>N/A</u>	_Located: <u>No</u> Date	Located: N/A	Source: Unknown
If No, declined b	y who	Letter/Notice Date: 1st 0	4/09/2015 2nd 04/23	/2015 Certified (3rd)04/17/2015
Comments:	Tax Map 16, Parce			
		evious Certified Letter		
	New certified letter	was sent for renotification or	4/16/18.	
Site:	Spacing	Owner/Occupant:	Bryan W. Pratt	
Address:	525 Cabin Lane, Al	ma, WV 26320	Ph:	Unknown
Field Contac	t Date: N/A	Located: No Date	Located: N/A	Source: Unknown
If No, declined	by who	Letter/Notice Date: 1st 1	1/11/2016 2nd 11/2	21/16 Certified (3rd) 11/10/16
Comments:	Tax Map 21, Parce	el 41		
	No Response To P	revious Certified Letter		
	New certified lette	r was sent for renotification o	n 4/16/18.	
Site:	Spacing	Owner/Occupant:	Paul Weekley c/o I	Paula Miller
Address:	4500 McElroy Cree	 ek Rd., Alma, WV 26320	Ph:	Unknown
Field Contac			Located: N/A	Source: Unknown
If No, declined			•	21/16 Certified (3rd) 11/01/16
Comments:				· · ·
	No Response To P	revious Certified Letter		
	New certified lette	r was sent for renotification o	n 4/16/18.	
Site:	Spacing	Owner/Occupant:	Chris Baum Jr. & I	lunn k Harstina
Address:	_ `	SE, Waynesburg, OH 44688	Ph:	Unknown
Field Contac			Located: N/A	
If No, declined				21/16 Certified (3rd) 11/10/16
Comments:	Tax Map 16, Parce	_		
		revious Certified Letter		
		r was sent for renotification o	n 4/16/18.	
Site:	Spacing	Owner/Occupant:	Leona Lorkovich	
Address:	302 Lynn Dr., New	Brighton, PA 15066	Ph:	Unknown
Field Contac	t Date: N/A	Located: No Date	Located: N/A	Source: Unknown
If No, declined I	by who	Letter/Notice Date: 1st	04/09/15 2nd 04/2	26/15 Certified (3rd) 04/17/15
Comments:	Tax Map 16, Parce	el 24		
		revious Certified Letter		
<u> </u>	New certified letter	r was sent for renotification of	n 4/16/18.	
Site:	_ Spacing	Owner/Occupant:	Stonewall Gas Con	ipany
Address:		Suite 500, Pittsburgh, PA 152	12 Ph:	Unknown
Field Contact	Date: <u>N/A</u>	_Located: No Date	Located: N/A	Source: Unknown
If No, declined to Comments:	y who Tax Map 16, Parce		04/09/15_2nd_04/2	<u>6/15</u> Certified (3rd) 04/17/15 RECEIVED
		revious Certified Letter		Office of Oil and Ga
<u> </u>		was sent for renotification of	4/16/18	
				MAY 0 9 2018

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WV Department of Environmental Protection

Site:	Spacing		Owner/	Occupa	nt:	Richard	H. Me	etcalf			
Address:	- 425 Wildlife Li	n., Bridş	geport, WV	26330				Ph:		nown	,
Field Contact			ocated:		Date	Located:	N/	'A .	Source:		Unknown
If No, declined b	y who		Letter/No	tice Date:	_	-		1/21/	- /2016 Cer	tified	(3rd)11/10/2016
Comments:	Tax Map 16, I	Parcels					_				· · · ·
	No Response	To Prev	ious Certifi	ed Letter							·····
	New certified	letter w	as sent for I	renotifica	tion or	n 4/16/18.					
Site:	Spacing		Owner	/Occupa	nt:	John An	ders L	I			<u>.</u>
Address:	804 Peters Ru	n Rd., V	Vheeling, W	V 26003				Ph:	Unk	nown	
Field Contact	t Date:	<u>//A</u>	_ocated:_	No	Date	e Located:	N	'/ A	Source		Unknown
If No, declined I	oy who		Letter/No	tice Date:	: 1st	04/09/15	2nd	04/2	3/16 Ce	rtified	(3rd) 04/17/15
Comments:	Tax Map 16,	Parcel I	14.2								
	No Response	To Prev	vious Certifi	ed Letter							
	New certified	letter w	as sent for	renotifica	tion o	n 4/16/18.					
Site:	_ Spacing _			/Occupa	int:	Mark A.	-		Prossor		
Address:	HC 74 Box 21	, Wilbu	, WV 26320)				Ph:	Unk	nown	
Field Contact	t Date:	V/A	Located:	No	_Date	e Located:	: <i>N</i>	"/A	Source	:	Unknown
If No, declined I	oy who		_ Letter/No	otice Date	: 1st <u>(</u>	04/09/2015	2nd _	04/23	<u>/2015</u> Ce	rtified	(3rd) <u>04/17/2015</u>
Comments:	Tax Map 16,	Parcel .	15								
	No Response	To Pre	vious Certifi	ied Letter							
	New certified	l letter w	as sent for	renotifica	ation o	n 4/16/18.					
Citer			0	0							
Site:	Spacing	47		Occupa	nt	Jeffrey &		<u>a Hoo</u> Ph:			
Address: Field Contact	305 Ridge Rd.			17						nown	
		<u>//A</u>	_ocated:	No		e Located:		<u>/A</u>	_Source:		Unknown
If No, declined a Comments:	•	Damaal		otice Date:	: 1st_	11/11/10	2nd _	11/2	<u>1/10</u> Ce	πιπεα	(3rd) 11/10/16
Comments.	Tax Map 16,			a d T -44							
· · · · · · · · · · · · · · · · · · ·	No Response					4/16/10					
-	New certified	letter w	as sent for	renotifica	ition o	n 4/16/18.					
Site:	Spacing		Owner/	'Occupa	nt:	Pearlie I	Davis				
Address:	122 Elm St., D	avisvill	e, WV 2614	2				Ph:	Unk	nown	· · · · · · · · · · · · · · · · · · ·
Field Contact			_ocated:	No	Date	e Located;	N		Source:		Unknown
If No, declined a									-		(3rd) 4/16/18
Comments:	Tax Map 16,	Parcel 2						-			()
	No Response			ed Letter			•				
•	New certified				tion o	n 4/16/18				-	<u></u>
Site:	_ Spacing _		_ Owner/	Occupa	nt:	Anzanett	ta Dra	in Hr	s. c/o Pau	ula M	iller
	4500 McElroy	Creek I	Rd., Alma, V	<u>VV 26320</u>)		I	Ph:	Unkı	nown	
Field Contact	Date:	<i>1/A</i> L	.ocated:_	No	Date	Located:	N	/A	Source:		Unknown
If No, declined b	y who		_ Letter/No	tice Date:	: 1st _	11/11/16	2nd _	11/2	<u>1/16</u> Cer	rtified	(3rd) <u>11/10/16</u>
Comments:	Tax Map 18,	Parcel 3	<u> </u>								RECEIVED
<u> </u>	No Response	To Prev	ious Certifi	ed Letter							ce of Oil and
	New certified	letter w	as sent for i	renotifica	tion of	n 4/16/18.					
7701.WEU 4 Final	Water 4, 16, 18	_									MAY 0 9 2018

WV Department of Environmental Protection 08/03/2018

Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

4709502509

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

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	CERTIFIED MAIL
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 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	Name: See Attached	
Address:	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:	W	UTM NAD 83	Easting:	515439.627	
County:	Tyler	UTMINAD 65	Northing:	4357501.11	
District:	Centerville	Public Road Access:		WV-18	
Quadrangle:	West Union	Generally used farm name:		Donna J Peters	
Watershed:	Tributary of Camp Mistake Run	-			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	EQT Production Company	Authorized Representative:	Erin Spine	
Address:	2200 Energy Drive	Address:	2200 Energy Drive	,
Canonsburg PA 153	317	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 thOffice Ofuseloand of as 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? also contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

> WV Department of Environmental Protection

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

4709502509

Access/ Other Disturbance:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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Pit/ Impoundment or AST

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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MAY 09 2018

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF PLANNED OPERATION</u>

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)

CERTIFIED MAIL	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: See attached	Name: See Attached
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:	W		Easting:	515439.627	
County:	Tyler	UTM NAD 83	Northing:	4357501.11	
District:	Centerville	Public Road Ac	cess:	WV-18	
Quadrangle:	West Union	Generally used farm name:		Donna J Peters	
Watershed	Tributary of Camp Mistake Run				

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	EQT Production Company	Address:	2200 Energy Drive
Telephone:	304-848-0035		Canonsburg PA 15317
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 regulator Gas 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. If you have any questions about our use or your personal information. Just contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Environmental Protection

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Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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MAY 09 2018

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

Revised February 28, 2018

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

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,

Dary K. Claytow

Gary K. Clayton P.E. Regional Maintenance Engineer Central Office Oil & Gas Coordinator Office Oil & Coordinator

Office of Oil and Gas MAY 09 2018

08/03/2018

WV Department of Environmental Protection

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

Anticipated Frac Additives Chemical Names and CAS numbers

Material

Ingredient

44,077

CAS Number

144,000

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

AUB 2018 Dry H 5/14/2018 5-1448

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MAY 1 8 2018

WV Department of Environmental Protection

