

#### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> 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

Operator's Well Number: WEU4H11

Farm Name: DONNA J. PETER

U.S. WELL NUMBER: 47-095-02509-00-00

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

API Number: 47-095-02509

## 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**

- 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, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-95	- 02509
OPERATOR W	/ELL NO. WEU4H11
Well Pad Nai	me: WEU4

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

1) Well Operator: EQT Proc	duction Company	306686	Tyler	Centervil	West Union
The state of the s		Operator ID	County	District	Quadrangle
2) Operator's Well Number: \( \square\)	WEU4H11	Well	Pad Name: W	EU4	
3) Farm Name/Surface Owner	: Donna J Peter	Public I	Road Access:	<b>//</b> -18	
4) Elevation, current ground:	1079 E	levation, propos	ed post-constru	uction: 1079	
5) Well Type (a) Gas X Other	Oil	U	nderground St	orage	
(b)If Gas S	hallow x	Deep			
Н	lorizontal X		0)	3H	aeB,
6) Existing Pad: Yes or No Y	es			11/11	17/31/2018
7) Proposed Target Formation Target formation is Marcellus at					et pressure of 2747 PSI
8) Proposed Total Vertical De	pth: 6680				
9) Formation at Total Vertical		S			
10) Proposed Total Measured	Depth: 12289				
11) Proposed Horizontal Leg	Length: 5024				
12) Approximate Fresh Water	Strata Depths:	132,175,186	,204		
13) Method to Determine Fres	sh Water Depths:	By Offset wells	3		
14) Approximate Saltwater De	epths: 1128,1219,	1222			
15) Approximate Coal Seam I	Depths: 230,281,6	896			
16) Approximate Depth to Po			): None repo	rted	
17) Does Proposed well locate directly overlying or adjacent		Yes		No X	
(a) If Yes, provide Mine Info	o: Name:			Office	RECEIVED of Oil and Gas
	Depth:			AU	
	Seam:				2 2010
	Owner:			Environ	Department of mental Protection

WW-6B	
(04/15)	

API NO. 47- 095 - 02509

OPERATOR WELL NO. WEU4H11
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	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							



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**

Office of STATE
Office of Oil and

WW-6B	
(10/14)	

API NO. 47- 95 - 02509

OPERATOR WELL NO. WEU4H11

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 5582'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

Dr. H JOB 7/31/2018

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 400,000 pounds of proppant per stage.

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

   One cent at the shoe and one spaced every 500°.
- Production: One solid body cent spaced every joint from production casing shoe to KOP

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

Conductor Class A no additives
Surface (Type 1 Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurnes. 25% Flake Loss Circulation Material (LCM)
Intermediate (Class H Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurnes 0.25% flake Loss Circulation Material (LCM) .6% Super FL-300 (fluid loss/lengthens thickening time)
Production:

Production:
Lead (Class A Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss)lengthens thickening time). .15% SEC-10 (fluid loss). 50:50 FOZ (extended).

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Tall (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss). .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss). Reduces amount of the product of the second seco

25) Proposed borehole conditioning procedures:

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

<sup>\*</sup>Note: Attach additional sheets as needed.

Well EQT Production West Union Quad Tyler County, WV Well (WEU4H11)

155 Vertical Section 516538 Enertia #

5756

Note:	Diagram	is not	10	scale

	Top	Base			Casing and Cementing			Deepest Fresh Water:	204'
Formations	TVD	TVD _			Туре	Conductor	Surface	Intermediate	Production
Conductor		40	7111		Hole Size, In.	30	17 1/2	12 3/8	8 1/2
			4111		Casing Size, OD In.	26	13 3/8	9 5/8	5 1/2
Base Fresh Water	2	04	111	111	Casing Wall Thickness, In.	0.312	0.380	0.395	0.361
			111	111	Depth, MD	40'	750'	2,865'	12,289'
Surface Casing	7	50	<b>⊿</b>		Weight	85.6#	54.5#	40#	20#
					Grade	A-500	J-55	A-500	P-110
Base Red Rock	1	101	- 11	11	New or Used	New	New	New	New
			- 14		Burst (psi)	1378	2,700	3,950	12,640
			- 11	11	Cement Class	A	A / Type 1	Н	A/H
Maxton		- 2037	- 11	11	Cement Yield	1.18	1.19	1.07	1.123 / 2.098
Big Lime Weir		- 2395 - 2450	- 11		Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Gantz	2490	- 2507	- 11	11	Method	Displacement	Displacement	Displacement	Displacement
Fifty foot	2604	- 2659	- 11	11	Est. Volume (cu ft)	49	728	1,126	2,075
Thirty foot Gordon Intermediate Casing Forth Sand Bayard	2770 2841	- 2744 - 2815 865 - 2903 - 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, Viscosific Defoamer, POZ, Bonding Ager Retarder, Anti-Settling/Suspensi Agent
Warren Speechley Balltown A Riley Benson Alexander Sonyea Middlesex Genesee Geneseo Tully Hamilton Marcellus Production Casing	3460 3976 4574 4995 5242 6328 6449 6496 6570 6605 6626	- 4864 - 5058 - 5324 - 6449 - 6496 - 6570 - 6605 - 6626 - 6649 - 6702				Dury	13×16	-Plb/31/2016	

Land curve @

6,680' TVD 7,265' MD

Est. TD @

6,680' TVD 12,289' MD

Proposed Well Work:

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.

5,024' Lateral

#### **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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**EQT Production** 

**Hydraulic Fracturing Monitoring Plan** 

Pad ID: WEU4

**County Tyler** 

4/01/18

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Office of Oil and Gas

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#### 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.

#### 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:

- 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
- Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

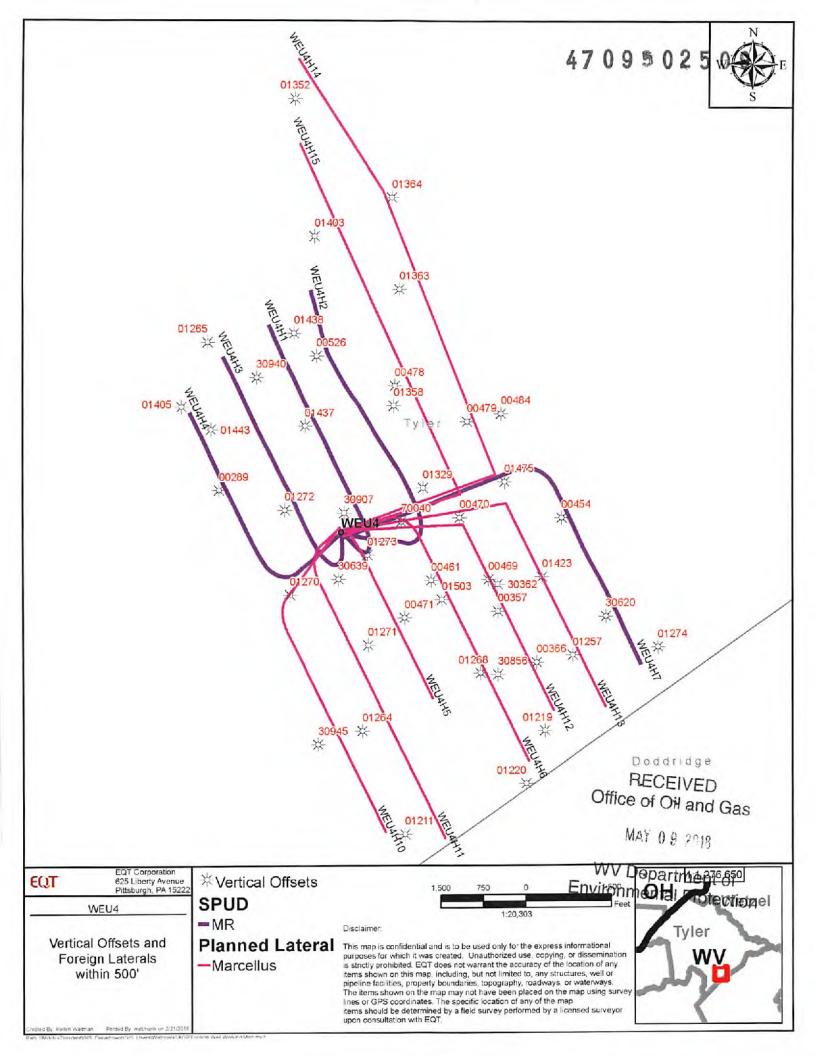
#### 2. Reporting

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

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API Number	Abandoned Date	Completion Date	Current Operator	Elevation	Elevation Refere	Final Status I	at	Long	Well Name	Permit Date	SPIID Date	TD Formation	Total Depth	Don-it
47095309070000	11/8/1959		HOPE NATURAL GAS	Lictorion		UNKWN	39.3675	•	406 J L ASH 1		1/17/1902		rotal Depth	30907
47095303620000	9/2/1944	-, ,	HOPE NATURAL GAS	1022		ABD-GW	39.3640		1963 HAMMETT HEIRS 1		-,	HURON LOWER	2661	30362
47095306200000	4/27/1950		HOPE NATURAL GAS	905		ABD-GW	39.3624		2085 E M B KEYS		1/12/1911			30620
47095308560000	5/19/1955		HOPE NATURAL GAS	968		ABD-GW	39.3596		2202 JACOB C SMITH		5/19/1911			30856
47095306390000	6/14/1950		HOPE NATURAL GAS	956		ABD-GW	39.3643		2261 S M JONES	6/2/1911				30639
47095004540000	10/28/1949		HOPE NATURAL GAS	1007		ABD-GW	39.3672		2958 HATTIE B KEYS	5/1/1913	-,,	HURON LOWER		00454
47095309450000	12/7/1968		CONSOLIDATED GAS SUPPLY CORPORATION	•••		UNKWN	39.3563		3420 KEYS HEIRS	4/6/1914	-,,		2000	30945
47095002890000	10/24/1962	-,,	STONESTREET LANDS	830		ABDOGW	39.3686		1 J L ASH	5/10/1960		BIG INJUN /SD/	1000	00289
47095003570000	10/23/1974		LENNOX OIL & GAS	947		ABD-GW	39.3627		2 W A BRITTON	7/18/1962		POCONO		00255
47095004610001			EQUITABLE GAS COMPANY	919		SWDOP	39.3642		5488/1 LUCY DAVIS	8/10/1973		DEVONIAN /SD/		00357
47095004700001			EQUITABLE GAS COMPANY	1027		GSTGW	39.3672		1 LUCY DAVIS	3/24/1974		GORDON		00470
47095004690001			EQUITABLE GAS COMPANY	999		SWDOP	39.3642		5491 CARL PERKINS	6/2/1974		DEVONIAN /SD/		00470
47095004710001			EQUITABLE GAS COMPANY	933		SWDOP	39.3624		5495 R E MOORE	8/2/1974		GORDON /SD/		00471
47095003660001			EQUITABLE GAS COMPANY	914		SWDOP	39.3602		3/5493/ CARL PERKINS	9/9/1974	-,,	MISSISSIPPIAN		00366
47095004780000			EQUITABLE GAS COMPANY	1049		GAS	39.3736		6229 CARRIE ROBINSON	7/18/1976		BIG INJUN /SD/		00478
47095004790000			EQUITABLE GAS COMPANY	1010		GSTG	39.3718		5503 ADDIE KEYS	5/17/1977		GANTZ /SD/		00479
47095005260000			EQUITABLE GAS COMPANY	1045		GSTG	39.3750		5507 B W PIESON	8/2/1979				00526
47095012110000			CONSOL GAS COMPANY	970	KB	GAS	39.3519		2 KEYS AUSTIN I	9/16/1987		DEVONIAN /SH/		01211
47095012190000			CONSOL GAS COMPANY	937		GAS	39.3569		1 BAGLEY W M			DEVONIAN /SH/		01219
47095012200000			CONSOL GAS COMPANY	827	KB	GAS	39.3543		1 MORRIS BURKE			DEVONIAN /SH/		01220
47095012570000			CONSOL GAS COMPANY	1030	кв	2GAS	39.3605	-80.8065	1 FREEMAN			DEVONIAN /SD/		01257
47095012650000		11/8/1988	CONSOL GAS COMPANY	993	KB	GAS	39.3757	-80.8292	1 DAVIS GARY W			DEVONIAN /SD/		01265
47095012640000		11/15/1988	CONSOL GAS COMPANY	936	кв	GAS	39.3569	-80.8196	2 KEYS AMOS	10/22/1988		DEVONIAN /SD/		01264
47095012720000		2/2/1989	CONSOL GAS COMPANY	1024	кв	GAS	39.3676	-80.8244	2 ASH HENRY & WILLIAM	1/10/1989		DEVONIAN /SD/		01272
47095012710000		2/11/1989	CONSOL GAS COMPANY	953	KB	GAS	39.3611	-80.8192	1 LORKOVICH LEONA	1/17/1989		DEVONIAN /SD/		01271
47095012730000		2/17/1989	CONSOL GAS COMPANY	1130	KB	GAS	39.3654	-80.8193	3 ASH HENRY & WILLIAM	1/23/1989		DEVONIAN /SD/		01273
47095012700000		2/23/1989	CONSOL GAS COMPANY	1072	KB	GAS	39.3635	-80.8241	1 SMITH WILLIAM	1/29/1989		DEVONIAN /SD/		01270
47095012680000		2/26/1989	CONSOL GAS COMPANY	1020	KB	GAS	39.3597	-80.8122	1 CUMBERLEDGE ASIA DELL	2/3/1989		DEVONIAN /SD/		01268
47095013290000		12/9/1989	CONSOL GAS COMPANY	1086	KB	GAS	39.3686	-80.8158	1 STONEKING L B	11/7/1989	11/17/1989	BENSON /SD/	5200	01329
47095013580000		1/25/1990	CONSOL GAS COMPANY	1034	KB	GAS	39.3726	-80.8176	2 KEYS ADDIE	12/20/1989	12/30/1989	DEVONIAN /SD/	5100	01358
47095013630000		1/30/1990	CONSOL GAS COMPANY	1107	KB	GAS	39.3782	-80.8172	1 ANN FAYE	12/30/1989	1/9/1990	DEVONIAN /SD/	5190	01363
47095014050000		8/1/1990	ALLIANCE PETROLEUM CORPORATION	986	KB	GAS	39.3726	-80.8308	1-A NICHOLS/DAVIS	7/9/1990	7/19/1990	BEREA	2136	01405
47095014030000		8/17/1990	CONSOL GAS COMPANY	1008	KB	GAS	39.3808	-80.8225	2 LEGRANDE MARVIN	7/23/1990	8/2/1990	DEVONIAN /SH/	5210	01403
47095014230000		9/7/1990	CONSOL GAS COMPANY	1166	KB	GAS	39.3643	-80.8084	1 SINGER	8/15/1990	8/25/1990	DEVONIAN /SD/	5225	01423
47095013640000		9/26/1990	CONSOL GAS COMPANY	1065	KB	GAS	39.3826	-80.8177	2 ANN FAYE	9/1/1990	9/11/1990	DEVONIAN /SD/	5200	01364
47095014370000		12/11/1990	CONSOL GAS COMPANY	982	KB	GAS	39.3716	-80.8231	1 DOAK CLARA ETAL & SMITH	10/23/1990	11/2/1990	DEVONIAN /SD/	5100	01437
47095014430000		1/2/1991	CONSOL GAS COMPANY	1054	KB	GAS	39.3715	-80.8290	CONRAD1 DAVIS FANNY ETAL	11/22/1990	12/2/1990	DEVONIAN /SD/	5150	01443
47095014380000		1/3/1991	CONSOL GAS COMPANY	1004	KB	GAS	39.3761	-80.8238	2 DOAK CLARA ETAL & SMITH	11/29/1990	12/9/1990	DEVONIAN /SD/	5100	01438
47095012740000		2/1/1991	CONSOL GAS COMPANY	1038	KB	GAS	39.3609	-80.8012	1 WEEKLEY ISAIAH	12/24/1990	1/3/1991	DEVONIAN /SD/	5100	01274
47095014750000		6/11/1992	CONSOL GAS COMPANY	1192	KB	GAS	39.3689	-80.8107	1 STONEKING BRUCE	5/10/1992	5/20/1992	DEVONIAN /SD/	5284	01475
47095015030000		12/8/1992	CONSOL GAS COMPANY	998	GR	GAS	39.3633	-80.8146	1 PURSLEY A A	10/4/1992	10/14/1992	DEVONIAN /SD/	5100	01503
47095309400000	7/5/1966	•	HOPE NATURAL GAS			PSEUDO	39.3740	-80.8261	1489 BOWERS & DAVIS					30940
47095700400000			CARTER OIL COMPANY			PSEUDO	39.3670		1 J L ASH					70040
4709500484		7/20/1977	' EPC	1137		STORAGE	39.3722	-80.8109					2226	00484
4709501352		12/1/1989	ANVIL OIL	1096	GR	GAS	39.3874	-80.8237					5170	01352

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Office of Oil and Gas
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Well
EQT Production
West Union Quad
Tyler County, WV Well (WEU4H11)

Azimuth 155 5756 **Vertical Section** 516538 Enertia#

Note: Diagram is not to scale				Literatur J	10330					Щ
	Top	Base				Casing and Cementing			Deepest Fresh Water	: 204'
Formations	TVD	TVD _				Type	Conductor	Surface	Intermediate	Production
Conductor		40	4111			Hole Size, In.	26	17 1/2	12 3/8	8 1/2
			-	111-		Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2
Base Fresh Water		204	111			Casing Wall Thickness, In.	0.375	0.380	0.395	0.361
			111	111		Depth, MD	40'	750'	2,865'	12,289'
Surface Casing		750	4			Weight	78.6#	54.5#	40#	20#
						Grade	A-500	J-55	A-500	P-110
Base Red Rock	1	101				New or Used	New	New	New	New
			- 11			Burst (psi)	1378	2,700	3.950	12,640
No.			11			Cement Class	Λ	A / Type 1	н	A/H
Maxton			- 11			Cement Yield	1.18	1.19	1.07	1.123 / 2.098
Big Lime Weir				11		Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing Zone
Gantz	2490	- 2507	- 11			Method	Displacement	Displacement	Displacement	Displacement
Fifty foot	2604	- 2659	- 11			Est. Volume (cu ft)	60	668	1,126	2,075
Thirty foot Gordon		- 2744 - 2815	- 11	11					Calcium Chloride, Fluid	Calcium Carbonate, Fluid Loss,
Intermediate Casing Forth Sand Bayard	2841 3011	- 2903 - 3148	4			Possible Additives	N/A	Calcium Chloride	Loss, Defoamer, Dispersant, POZ, Bonding Agent, Extender, Retarder, Flake/LCM	Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent
Warren Speechley Balltown A Riley Benson Alexander Sonyea Middlesex Genesee Geneseo Tully Hamilton	3460 3976 4574 4995 5242 6328 6449 6496 6570 6605	- 4864 - 5058 - 5324		кор@	5,582'	Dath yell	90	B 114/2014		

6,680' TVD Land curve @ 7,265' MD

Est. TD @

6,680' TVD 12,289' MD

Proposed Well Work:

Tully Hamilton

Marcellus

**Production Casing** 

Onondaga

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

6702

Drill the vertical to an approximate depth of 5582'.

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

6626 - 6649

6649 - 6702

12289 MD

5,024' Lateral

WW-9 (4/16)

API Number 47 - 95

Operator's Well No. WEU4H11

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLOIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name EQT Production Company OP Code 306686	
Watershed (HUC 10) Tributary of Camp Mistake Run Quadrangle West Union	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes V No No	
If so, please describe anticipated pit waste: flowback and residual solids	DmH
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:	p
Underground Injection (UIC Permit Number 0014, 8462, 4037 /  Reuse (at API Number Various	5-14-18 5-14/2018
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 drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud	_1
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit number? See Attached List	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected a West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disc where it was properly disposed.	t any lose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMITON August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other a law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsibilities for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official (Typed Name) Erin Spine	I that the pplicable I on this sible for gnificant
Company Official Title Regional Land Supervisor	RECEIVED of Oil and Gas
	MAY 1 8 2018
Subscribed and sworn before me this 4 day of Vay , 20 18  Environmental Notary Public OFFICE	N Department of onmental Protection
4-7-2020 NOTARY	PUBLIC 7
ROT PHODUCT	TON COMPANY OK 250

Form WW-9

Proposed Revegetation Trea	tment: Acres Disturbed N	No Additional Prevegetation	oH 6.3	
Lime 3	Tons/acre or to corre			
Fertilizer type Gra				
Fertilizer amount	1/3	lbs/acre		
Mulch 2		Tons/acre		
		Seed Mixtures		
Te	emporary	Perm	anent	
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre	
		7.000	15	_
Alsike Clover	5 15	Alsike Clover	5	_
Annual Rye	10	_		
provided). If water from the acreage, of the land application	pit will be land applied, inc on area.	d application (unless engineered plans included imensions (L $\times$ W $\times$ D) of the pit, an		
Maps(s) of road, location, pir provided). If water from the acreage, of the land application. Photocopied section of invol	pit will be land applied, incon area.  ved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, an		
Maps(s) of road, location, pir provided). If water from the creage, of the land applicati Photocopied section of invol-	pit will be land applied, inc on area.	clude dimensions (L x W x D) of the pit, an		
Maps(s) of road, location, pirrovided). If water from the creage, of the land application of involved the complete section of involv	pit will be land applied, incon area.  ved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, an		
Maps(s) of road, location, pirrovided). If water from the creage, of the land application of involved the complete section of involv	pit will be land applied, incon area.  ved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, an		
Maps(s) of road, location, pir provided). If water from the pereage, of the land applicati Photocopied section of invol-	pit will be land applied, incon area.  ved 7.5' topographic sheet.	clude dimensions (L x W x D) of the pit, an		
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Maps(s) of road, location, pin provided). If water from the acreage, of the land application Photocopied section of invol- Plan Approved by:	pit will be land applied, incon area.  ved 7.5' topographic sheet.  rozin Bleut	clude dimensions (L x W x D) of the pit, an		
Maps(s) of road, location, pir provided). If water from the acreage, of the land applicati Photocopied section of invol	pit will be land applied, incon area.  ved 7.5' topographic sheet.  rozin Bleut	clude dimensions (L x W x D) of the pit, an		and area in

## 4709502509

### **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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Office of Oil and Gas

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# 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
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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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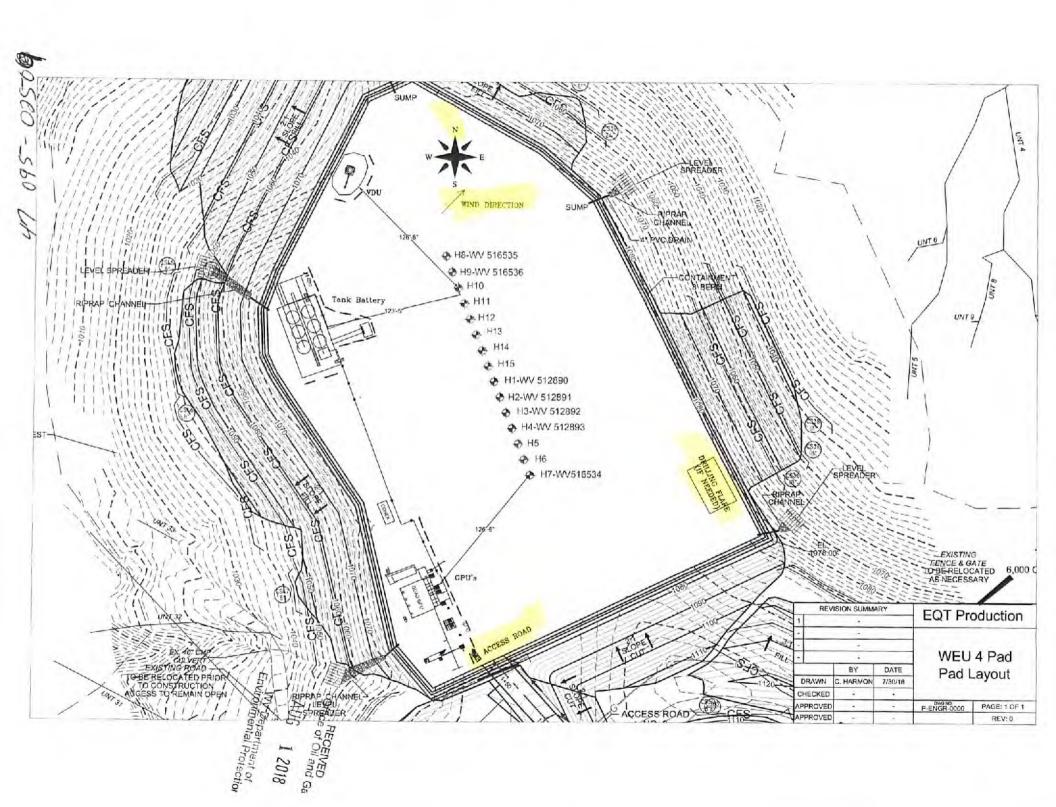


# Site Specific Safety and Environmental Plan

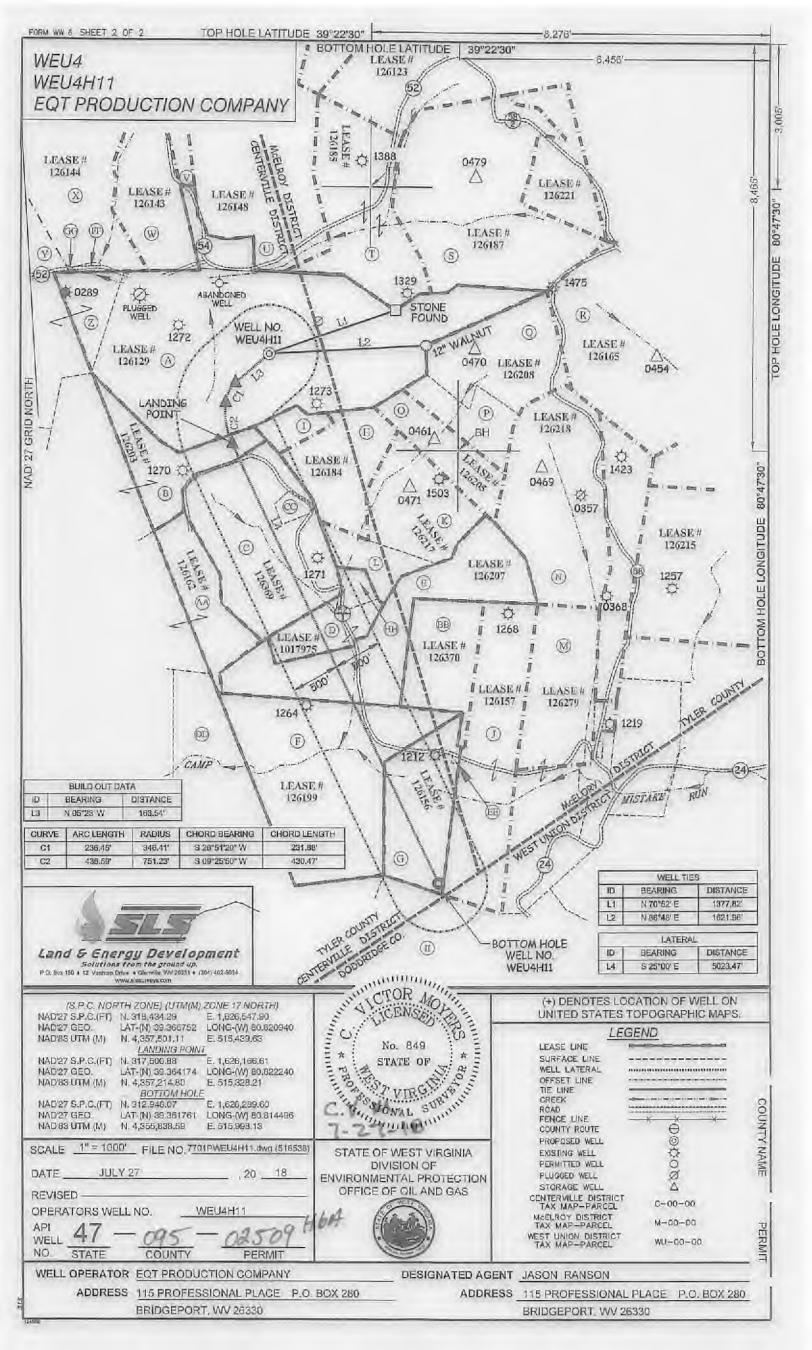
EQT
WEU4 Pad
Alma
Tyler County, WV

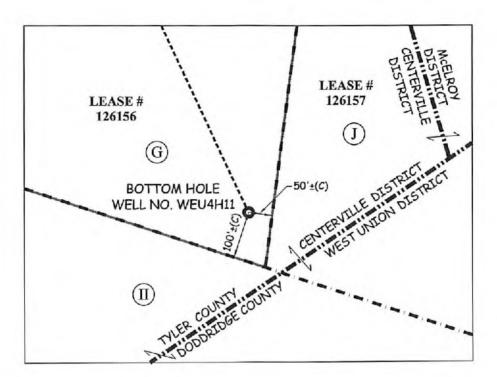
For Wells:

WEU4H5 WEU4HO WEU4	HIO WEU4HII WEU4H	12
WEU4H13 WEU4H14	WEU4HI5	
Date Prepared: February 16, 2018  EQT Production	W. Oil and Gas Inspector	1,
Regional Land Supervisor	Title Oil & Gas Inspector	RECEIVED Office of Oil and Gas
5/4/2018 Date	5 14 2018 Date	MAY 1 8 2018
		WV Department of Environmental Protection



3





LEASE LINEMAY 09 2018 SURFACTV-Department of WEEnvironmental Protection CREEK ROAD

SCALE: 1"= 200' DATE: 04-13-18 DRAWN BY: MGF 7812

### **BOTTOM HOLE DETAIL FOR WEU4H11**

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



SCALE: 1 INCH= 200-FEET 200' 400'

#### 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

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MAY 09 2018

WV Department of

The applicant further acknowledges that any Office of Oil and Gas permit in newaring in the property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any Office of Oil and Gas permit in new property of the applicant further acknowledges that any office of Oil and Gas permit in the applicant further acknowledges that the applicant further acknowledges the applicant further acknowledges that the applicant further acknowledges the acknowledges that the applicant further acknowledges that acknowledges the acknowledges that acknowledges the acknowledges the acknowledges that acknowledges the acknowled nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company

By:

Erin Spine

Its:

Regional Land Supervisor

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

/W-6A1 attachment		Operator's Well No.	WEU4H:		
ase No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	$\underbrace{0.9.5}_{\text{Book/Page}}0.2.5$	0
400400	Mars Cil 9 Con Co. Inc. of all company marsh assessed		**	·	
<u>126129</u>	Waco Oil & Gas Co. Inc., et al (current royalty owner)			LB191/321	
	Willam H. Ash, et ux, et al (original lessor)	Equitable Gas Company		DB 274/471	
	Equitable Gas Company	Equitrans,Inc.			
	Equitrans, Inc.	Equitrans, LP EQT Production Company		DB433/777 DB 396/640	
	Equitrans, LP			OG 440/107	
	Equitrans, LP	EQT Production Company		03 440/10/	
126203	Eileen Cayton, et al (current royalty owner)		**		
	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	
126369	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 L	.LC	9/131	
	CONSOL Gas Appalachian Development Properties LLC/CO	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)				
	Stephanie Berkhimer (original lessor)	EQT Production Company		545/51	
<u>126207</u>	Beatrice Brady, et al (current royalty owner)		**		
	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	
<u>126199</u>	Franklin Butler, et al (current royalty owner)		**	DB 400/452	
	Clarence W. Hylbert, et ux (original lessor)	Equitable Gas Company		DB 196/153	
	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>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	
	Equitrans, L.P.	EQT Production Company		DB 396/640	

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May 4, 2018

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

Re: WEU4 well pad, wells WEU4H5, WEU4H6, WEU4H10, WEU4H11, WEU4H12, WEU4H13, WEU4H14, WEU4H15, Centerville District, Tyler County

Dear Mr. Martin.

EQT Production Company is submitting an application for a new well work permit for the above well number. Upon information and belief, Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

Rebecca Wanstreet

Landman I -Permitting

hecea Wantheel-

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MAY 09 2018

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. WEU4H11

		Well Pad Na	inte	
	een given:			
		§ 22-6A, the Operator has provided the requ	ired parties with the Notice Forms listed	
	tract of land as follows:	Paration .	545400.007	
State:	Titos	IITM NAD 93	515439.627	
County: District:	Tyler Centerville		4357501.11 WV-18	
Quadrangle:	West Union			
Quadrangle: Watershed:	Tributary of Camp Mistake Run	Generally used farm name:	Donna J Peters	
watersned.	Tibutary of Camp Instake Run			
prescribed by it has provide information roof giving the requirements Virginia Code	the secretary, shall be verified and set the owners of the surface described the owners of the surface described in the contract of the surface owner notice of entry to surface owner notice of subsection (b), section sixteen of subsection (b), section sixteen of	every permit application filed under this hall contain the following information: (14) bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the requirvey pursuant to subsection (a), section tend of this article were waived in writing by the tender proof of and certify to the secretary that.	A certification from the operator that ( ection (b), section ten of this article, the uirement was deemed satisfied as a result on of this article six-a; or (iii) the notion the surface owner; and Pursuant to West	
that the Ope	rator has properly served the require	perator has attached proof to this Notice Cered parties with the following:	OOG OFFICE USE	
*PLEASE CHI	ECK ALL THAT APPLY		ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTED	<ul><li>■ 表記し、それもごを紹介したことが、。</li></ul>	
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or  NO PLAT SURVEY WAS CO	NDUCTED RECEIVED	
■ 3. NO′	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVIWAS CONDUCTED or	■ PROTECT OF THE PROPERTY AND THE PR	
		☐ WRITTEN WAIVER BY SURFAC (PLEASE ATTACH)	E OWNER	
■ 4. NO	ΓΙCE OF PLANNED OPERATION		E OWNER	
_	ΓΙCE OF PLANNED OPERATION BLIC NOTICE			

**Required Attachments:** 

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

#### Certification of Notice is hereby given:

THEREFORE, I 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
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
RESECCA L. WAINSTREET
EQT PRODUCTION COMPANY
PO BOX 250
BRIDGEPORT, WY 26330
My commission expres April 97, 2020

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

Notary Public My Commission Expires 4-7-2030

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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Office of Oil and Gas

MAY 09 2018

WW-6A (9-13) API NO. 47-95 OPERATOR WELL NO. WEU4H11
Well Pa4 17m0 905 0 2 5 0 9

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

Notice Time Requirement: notice shall be provided no later than	the filing date of permit application.
Date of Notice: <u>577/2018</u> Date Permit Application Filed: <u>577/20</u> Notice of:	M8
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE IN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(	b)
	DD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
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, if described in the erosion and sediment control plan submitted pursuant operator or lessee, in the event the tract of land on which the well proposed work, if the surface tract is to be used for the placement, construction well work, if the surface tract is to be used for the placement, construction which is a described in section nine of this article; (5) An avera water well, spring or water supply source located within one to provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section expression of this article to the contrary, notice to a lien holder is not a section of the section where the contrary is not a section of the section of the section to the contrary, notice to a lien holder is not a section of the sectio	r signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of the ted; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, posed to be drilled is located [sic] is known to be underlain by one or ects overlying the oil and gas leasehold being developed by the proposed action, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elemants in common or other co-owners of interests described in the applicant one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ SURFACE OWNER(s)	☑ Well Plat Notice is hereby provided to:  ☐ COAL OWNER OR LESSEE
Name: See Attached	Name: See Attached
Address:	Address:
Name:Address:	COAL OPERATOR Name: Address:
Z 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 Address:
Name: Address:	1 tou1033.
SURFACE OWNER(s) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name:
Name: See Attached	Address: RECEIVED
Address:	*Please attach additional forms if Reffice of Oil and Gas

MAY 09 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

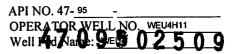
DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

#### **Coal Owners:**

ROSEMARY BRANDON 3013 DELEWARE AVE KENNER LA 70065

RECEIVED
Office of Oil and Gas

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### **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 prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 1914 permit 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 December 39, 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 that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items Environmental Projection in the inadequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47457 Q 9 5 0 2 5 0 9

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 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 things have 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 application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304

MAY 0 9 2018

WV Department of

(304) 926-0450 Environmental Protection.

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.

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

#### **Permit Denial or Condition**

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

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

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

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

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Office of Oil and Gas

MAY 09 2018

WW-6A (8-13)

API NO 47-90 9-5 025 0-9
OPERATOR WELL NO. WEU-4H 0-9
Well Pad Name: WEU-4

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.

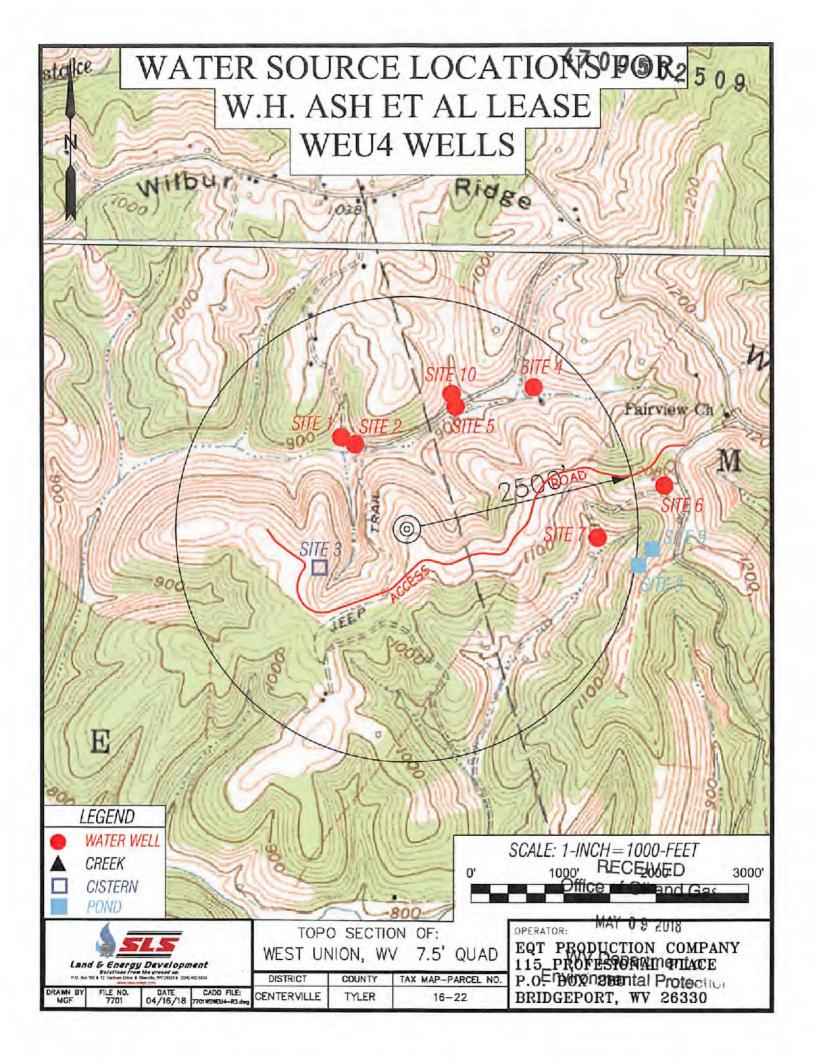
OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. WANSTREET
EQT PRODUCTION COMPANY
PO BOX 280
SRIDGEFORT, WY 26330
Ny commission expines April 07, 2020

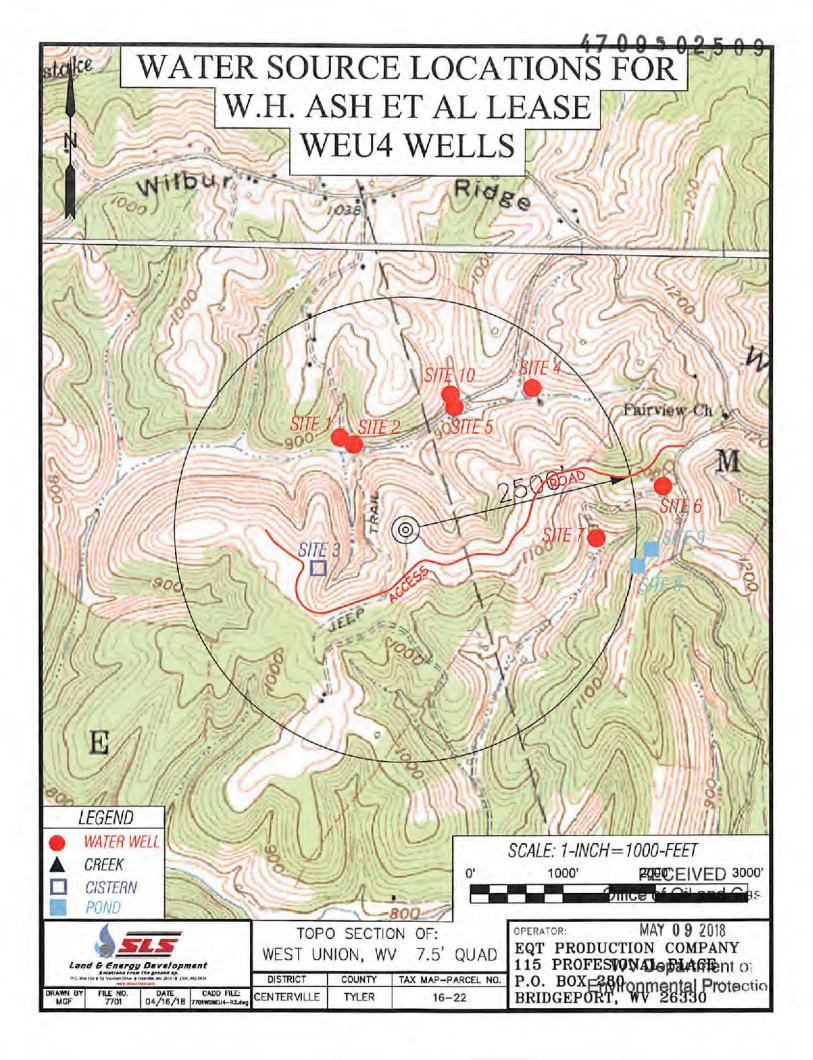
Subscribed and sworn before me this 4 day of May 2018.

Public Augustical Notary Public My Commission Expires 4-7-2000

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Office of Oil and Gas

MAY 09 2018







**OPERATOR:** EQT Production Company

P.O. BOX 150, GLENVILLE, WV 26351

(304) 462-5634 • FAX 462-5856

### WELL INFORMATION AND POTENTIAL WATER WELL SAMPLE DATA SHEET

LEASE NAN	ME AND NUMBER: WEU-4
	<u>COMMENTS</u>
listed surfac	ield and/or mapping review of the area surrounding the proposed well site revealed the below see owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or es within 2500' of the proposed well site. (For location of each site see attached area map.)
	INDIVIDUAL CONTACTED OR NOTIFIED
Site:	Spacing 1220' Owner/Occupant: Donna Peter
Address:	733 Ridge Rd. Alma, WV 26320 Ph: (304)-758-4495
	ct Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
	by who Letter/Notice Date: 1st <u>04/09/2015</u> 2nd <u>04/23/2015</u> Certified (3rd) <u>04/17/2015</u>
Comments:	Lat: 39.369336, Long: -80.823230
-	Tax Map 16, Parcel 22
	Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.
Site: 2	Specing 1975 Owner/Occupants D. D.
	Spacing
Address:	733 Ridge Rd. Alma, WV 26320 Ph: (304)-758-4495
	ct Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
	by who Letter/Notice Date: 1st <u>04/09/2015</u> 2nd <u>04/23/2015</u> Certified (3rd) <u>04/17/2015</u>
Comments:	Lat: 39.369112, Long: -80.822699
	Tax Map 16, Parcel 22
	Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.
Site: 3	Spacing 1030' Owner/Occupant: Donna Peter
Address:	733 Ridge Rd. Alma, WV 26320 Ph: (304)-758-4495
Field Contac	ct Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Spring
	by who Letter/Notice Date: 1st 04/09/2015 2nd 04/23/2015 Certified (3rd) 04/17/2015
Comments:	Lat: 39.365439, Long: -80.823990
	Tax Map 16, Parcel 22
	Previously indicated sampling wanted. Has been renotified for any changes by certified letter on 4/16/18.
Site:4	Spacing 2050' Owner/Occupant: Bruce & Sandra Stoneking
Address:	RR.1 Box 304 BB, Elkins, WV 26241 Ph:
	t Date: 04/23/2015 Located: Yes Date Located: 04/23/2015 Source: Water Well
	by who Letter/Notice Date: 1st <u>04/09/2015</u> 2nd <u>04/23/2015</u> Certified 73rd 10/1/12015
Comments:	Lat: 39.370837, Long: -80.815910 Office of Oil and C
	Tax Map 21, Parcels 28 and 29
	Previously indicated sampling wanted. Has been renotified for any changes by certified letter 4468 82018

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## 4709502509

Site:	Spacing		Owner.	/Occupa	nt: Richard	H. Metcal	f	
Address:	425 Wildlife	Ln., Br	idgeport, WV	26330		Ph:	Unknow	n
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If No, declined	by who		Letter/No	otice Date:	: 1st <u>11/11/2016</u> :	2nd 11/21	1/2016 Certifie	d (3rd) 11/10/2016
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Site:	Spacing			/Occupa	int:		<del></del>	<del></del>
Address: Field Contac			, Wheeling, W			—Ph:	Unknow	<del></del>
			Located:_		_Date Located:		_Source:	Unknown
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Site:	Spacing		Owner	·/Occupa	ant: Mark A	& Joel A.	Prossor	
Address:	<u> </u>		 bur, WV 2632			Ph:		'n
Field Contac		N/A	Located:	No	Date Located:		Source:	Unknown
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MAY 0 9 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

4709502509

#### 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 Date of Noti	Requirement: Notice shall be provided at l ce: 02/27/2018 Date Perm	east TEN (10) days prior to filing a nit Application Filed: 03/08/2018	permit application.
Delivery me	thod pursuant to West Virginia Code § 22	-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIV		JESTED	
receipt reque drilling a hos of this subse subsection m	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owne izontal well: <i>Provided</i> , That notice given petion as of the date the notice was provided tay be waived in writing by the surface owner one, facsimile number and electronic mail additional statements.	r notice of its intent to enter upon the ursuant to subsection (a), section tented to the surface owner: <i>Provided, hower</i> . The notice, if required, shall incl	ne surface owner's land for the purpose of on of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURFACE OWI	• •	
Name: See Att	ached	Name: See Attached	
Address:		Address:	
	West Virginia Code § 22-6A-16(b), notice is wner's land for the purpose of drilling a hori W  Tyler  Centerville  West Union  Tributary of Camp Mistake Run		
Pursuant to	e Shall Include: West Virginia Code § 22-6A-16(b), this number and electronic mail address of the operizontal drilling may be obtained from the	perator and the operator's authorize Secretary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters,
related to ho	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30	14-926-0450) or by visiting <u>www.de</u>	ep.wv.gov/oil-and-gas/pages/detault.aspx.
related to ho located at 60	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30 ereby given by:	94-926-0450) or by visiting <u>www.de</u>	ep.wv.gov/oil-and-gas/pages/default.aspx.
related to ho located at 60	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30	04-926-0450) or by visiting <u>www.de</u> Authorized Representative:	
related to ho located at 60	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30 ereby given by:	· · · · · ·	
related to he located at 60  Notice is he Well Operate Address: Canonsburg PA	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30 ereby given by:  DT: EQT Production Company 2200 Energy Drive	Authorized Representative: Address: Canonsburg PA 15317	Erin Spine
related to he located at 60  Notice is he Well Operat Address: Canonsburg PA Telephone:	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30 ereby given by:  DT: EQT Production Company 2200 Energy Drive	Authorized Representative: Address: Canonsburg PA 15317 Telephone:	Erin Spine
related to he located at 60  Notice is he Well Operate Address: Canonsburg PA	1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (30 ereby given by: DT: EQT Production Company 2200 Energy Drive 15317	Authorized Representative: Address: Canonsburg PA 15317	Erin Spine 2200 Energy Drive

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 thospical control of the contro 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? [1] the contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

#### **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

RECEIVED
Office of Oil and Gas

MAY **09** 2018

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

Date of Notic		ided no later than the filing date of permi mit Application Filed: 05/07/2018	
Delivery met	hod pursuant to West Virginia Co	ode § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
	•	<u></u>	
eturn receipt ne planned of equired to be rilling of a lamages to the d) The notice f notice.	requested or hand delivery, give the operation. The notice required by provided by subsection (b), section horizontal well; and (3) A proposed se surface affected by oil and gas opes required by this section shall be g	e surface owner whose land will be used this subsection shall include: (1) A copy the ten of this article to a surface owner who discrete use and compensation agreement on the extent the damages are congiven to the surface owner at the address land.	lication, an operator shall, by certified mail for the drilling of a horizontal well notice of y of this code section; (2) The information use land will be used in conjunction with the ent containing an offer of compensation for appensable under article six-b of this chapter, isted in the records of the sheriff at the time
	eby provided to the SURFACE O's listed in the records of the sheriff		
ai uie audies	S HSLEU III LIIE LECOLUS OL LIIE SHELIII A	at the time of house).	
		•	
Vame: See atta		Name: See Attached Address:	
Name: See atta Address:	eby given:	Name: See Attached Address:	Lucill an exerter has developed a planned
Name: See attanded and Address: See attanded and Address: See attanded and Address: See attanded and Address and A	eby given: /est Virginia Code § 22-6A-16(c), n	Name: See Attached Address:  notice is hereby given that the undersigned rpose of drilling a horizontal well on the tr UTM NAD 83 Easting: Northing: Public Road Access:	ract of land as follows: 515439.627
Name: See attanded and decrease see attanded	eby given: /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur w Tyler	Name: See Attached Address:  notice is hereby given that the undersigned rpose of drilling a horizontal well on the tr UTM NAD 83  Northing:	ract of land as follows: 515439.627 4357501.11
Name: See atta Address: Notice is her Pursuant to W	eby given: /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur ww Tyler Centerville	Name: See Attached Address:  notice is hereby given that the undersigned rpose of drilling a horizontal well on the tr UTM NAD 83 Easting: Northing: Public Road Access:	act of land as follows: 515439.627 4357501.11 WW-18
Notice is her Pursuant to Wiperation on State: County: District: Quadrangle: Vatershed:	eby given: /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur W Tyler Centerville West Union Tributary of Camp Mistake Run	Name: See Attached Address:  notice is hereby given that the undersigned rpose of drilling a horizontal well on the tr UTM NAD 83 Easting: Northing: Public Road Access:	act of land as follows: 515439.627 4357501.11 WW-18
Name: See atta Address:	eby given:  /est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur  // Tyler  Centerville  West Union  Tributary of Camp Mistake Run  Shall Include:  /est Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the elated to horizontal drilling may b located at 601 57th Street, SE,	Name: See Attached Address:  Address:  Totice is hereby given that the undersigned roose of drilling a horizontal well on the tree of the compensation agreement containing a see extent the damages are compensable under the contained of the compensable under obtained from the Secretary, at the William Address:	act of land as follows: 515439.627 4357501.11 WW-18
Notice is hereursuant to We peration on tate: County: District: Quadrangle: Vatershed: Chis Notice Soursuant to We perovide or izontal we urface affect information readquarters, as/pages/def	eby given: //est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur  W/ Tyler  Centerville  West Union  Tributary of Camp Mistake Run  Shall Include: //est Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a tel by oil and gas operations to the elated to horizontal drilling may b located at 601 57th Street, SE, ault.aspx.	Name: See Attached Address:  Address:  The second of the s	ract of land as follows:  515439.627  4357501.11  WV-18  Donna J Peters  s code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection b) or by visiting www.dep.wv.gov/oil-and-
Name: See atta Address:	eby given: //est Virginia Code § 22-6A-16(c), n the surface owner's land for the pur  W  Tyler  Centerville  West Union  Tributary of Camp Mistake Run  Shall Include: //est Virginia Code § 22-6A-16(c), t ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a ted by oil and gas operations to the elated to horizontal drilling may b located at 601 57th Street, SE, ault.aspx.  r: EQT Production Company	Name: See Attached Address:  Address:  Notice is hereby given that the undersigned roose of drilling a horizontal well on the trace of the control of the co	ract of land as follows:  515439.627  4357501.11  WV-18  Donna J Peters  s code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional V Department of Environmental Protection (b) or by visiting www.dep.wv.gov/oil-and-
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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our 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, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

#### **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

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## 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

Cc: Nick Bumgardner

**EQT Production Company** 

CH, OM, D-6

File

Regional Maintenance English
Central Office Oil & Gas Coordinator

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## Anticipated Frac Additives Chemical Names and CAS numbers

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

44,000

AB 5-1418

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#### 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 113.4; 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 AS PRODUMENT LY OF SHE SOUTH MEET OF COUNTY ROUTE SOUTH MEET OF COUNTY ROUTE SOUTH FREE COUNTY ROUTE OF THE PROPERTY.

#### 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 80.820645 (HAD 83) LATITUDE 4, 351, 471 LONGITUDE 513, 448 (LTM 1440 63 METERS)

WEB-4 FLOW CENTER OF FLOWBACK PIT LATITUDE 30:395395 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 = 35.61 ACRES

#### GENERAL DESCRIPTION

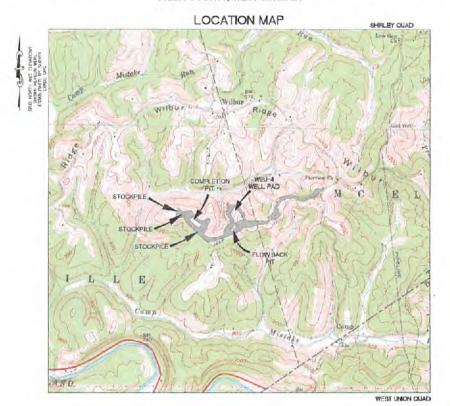
THE WELLS PAD AND PIT'S ARE RENO CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL IMPROBLING SHALE GAS WELLS.

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

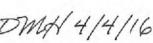


#### LIST OF DRAWINGS

- 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









WEU-4 AS-BUILT SITE PLAN SAITS LAND TOP: EQT PROD

DATE: 03/02/2016 SCALE 1"- LOOG" ESIGNED BY KILS.

H P NO 720 MEET 1 OF 7



