

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 <u>www.dep.wv.gov</u>

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 WEU4H5 47-095-02506-00-00

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: WEU4H5

Farm Name: DONNA J. PETER

U.S. WELL NUMBER: 47-095-02506-00-00

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

API Number: <u>47-095-62</u>506

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 02506

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.

WW-6B (04/15) API NO. 47-95 OPERATOR WELL NO. WEU4H5
Well Pad Name: WEU4
4 7 0 9 5 0 2 5 0 6

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

1) Well Operato	or: EQT Pro	oduction C	ompany	306686	Tyler	Centervill	West Union
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number:	WEU4H5		Well Pa	ad Name: W	EU4	
3) Farm Name/	Surface Owne	er: Donna	J Peter	Public Ro	ad Access: \	//V-18	
4) Elevation, cu	irrent ground:	1079	El	evation, proposed	l post-constru	action: 1079	
			_ Oil	Underground Storage			
	Other _	C1 II		-			
		Shallow	X		1		182.
6) Existing Pad		Horizontal Yes	X		Dal	14-18	JEJ14/2018
			(c) Antic	inated Thiolenasa	_		911
				ipated Thickness with the an 54 fee			sure of 2747 PSI
8) Proposed To	THE CONTRACTOR	2.25					CONTRACTOR STATE
9) Formation at		-	Marcellus	3			
10) Proposed T			11596			1 1	-
		-	4496			13	/
11) Proposed H				100 175 100 0	2.4	4	
12) Approxima	te Fresh Wate	er Strata De	•	132,175,186,20	J4		
13) Method to I			_	By Offset wells			
14) Approximat	te Saltwater D	Depths: 11	28,1219,1	1222			
15) Approximat	te Coal Seam	Depths: 2	30,281,6	96			
16) Approximat	te Depth to Po	ossible Voi	d (coal mi	ne, karst, other):	None repor	ted	
17) Does Propo directly overlyin				ns Yes		No X	
(a) If Yes, pro	vide Mine Int	fo: Name:					RECEIVED Office of Oil and Gas
		Depth	-			C	Office of Oil and Gas
		Seam:					MAY 1 8 2018
		Owner				Env	WV Department of ironmental Protection

WW-6B (04/15) API NO. 47- 95 OPERATOR WELL NO. WEU4H5
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	20	New	A-500	78.6	40	40	60 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	750	750 V	668 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	11596	11596	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							

Alb 5/14/2018

DM4 5-14-18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	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

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Kind:	MAY 1 8 2018
Sizes:	WV Department of Environmental Protection
Depths Set:	

709502506 API NO. 47

OPERATOR WELL NO. WEU4H5

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 5510. 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

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

WV Department of Conductor: Class A no additives

Conductor: Class A no additives

Surface (Type 1 Cerment): 0-3% Calcium Chloride Used to speed the setting of perment siurries, .25% Flake Loss Circulation Material (LCM) is used to combat the loss of the cerment siurry to a thief zone in the combat siurries of carment siu Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0 25% flake. Loss Circulation Material (LCM) is used to conthe loss of whole drilling fluid or pament slurry (not filtrate) to a third zone.

Lead (Type H Cement): 0.2% CD-20 (dispersant makes cament easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)

Tail (Type H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calculm Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

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

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at

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.

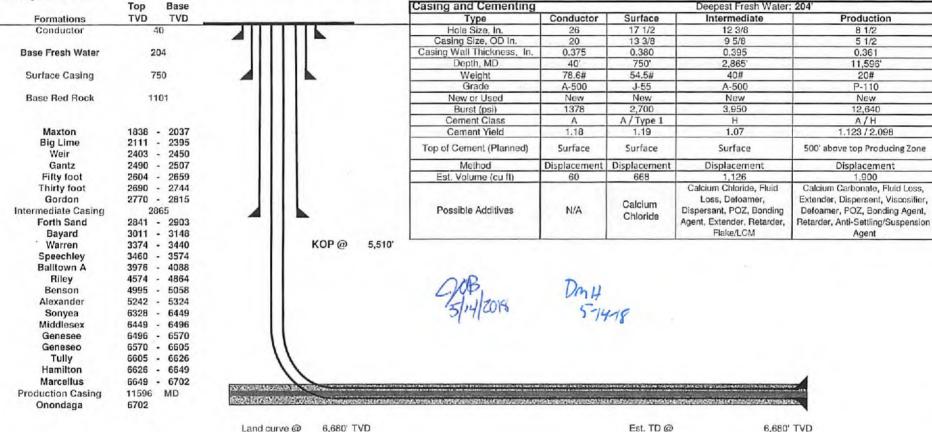
9

Well (WEU4H5) **EQT Production**

West Union Quad

155 Azimuth 4892 Vertical Section 512894

Tyler County, WV Enertia # Note: Diagram is not to scale



Land curve @

6,680' TVD 7,100' MD

6,680' TVD 11,596' MD

Proposed Well Work:

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

Drill the vertical to an approximate depth of 5510'.

Drill the vertical to an approximate depth of 5510'.

Kick off and drill curve. Drill lateral in the Marcellus. Cement casing the depth of 5510'.

4,496' Lateral

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: WEU4

County Tyler

4/01/18

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MAY **09** 2018

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Tyler County, WV prior to hydraulic fracturing at the following EQT wells on WEU4 pad: WEU4H5, WEU4H6, WEU4H10, WEU4H11, WEU4H11, WEU4H13, WEU4H14, WEU4H15.

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

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

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

Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

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

Reporting

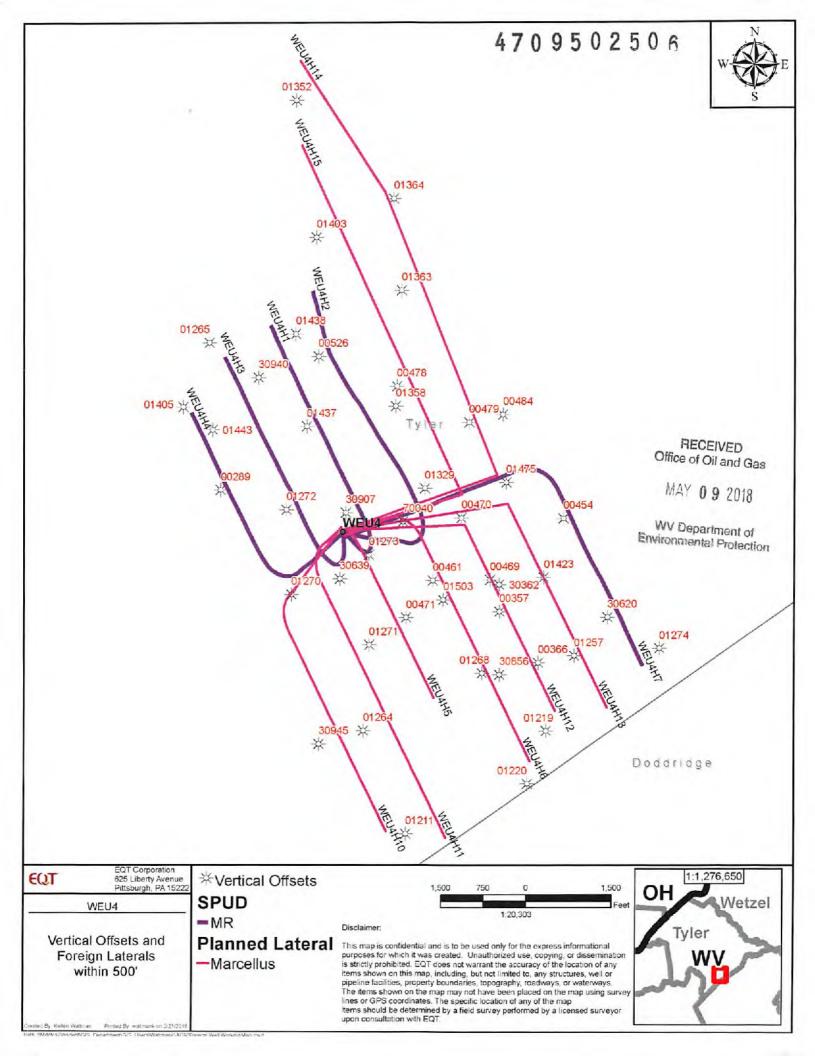
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately into Elevant of any noted abnormalities.

Office of Oil and Gas

MAY 09 2018

4
7
0
9
5
0
1
5
0
0

API Number	Abandoned Date	Completion Date	Current Operator	Elevation	Elevation Refere Final St	tue Lat	Long	Well Name	Permit Date	SDIID Date	TD Formation	Total Depth	Danit
47095309070000	11/8/1959		HOPE NATURAL GAS		UNKWA			406 J L ASH 1		1/17/1902		rotal Depth	30907
47095303620000			HOPE NATURAL GAS	1022	•			1963 HAMMETT HEIRS 1			HURON LOWER	2661	30362
47095306200000	4/27/1950		HOPE NATURAL GAS	905				2085 E M B KEYS		1/12/1911			30620
47095308560000	5/19/1955	6/20/1911	HOPE NATURAL GAS	968				2202 JACOB C SMITH		5/19/1911			30856
47095306390000			HOPE NATURAL GAS	956				2261 S M JONES		6/17/1911			30639
47095004540000	10/28/1949	6/27/1913	HOPE NATURAL GAS	1007				2958 HATTIE B KEYS	5/1/1913		HURON LOWER		00454
47095309450000	12/7/1968	5/21/1914	CONSOLIDATED GAS SUPPLY CORPORATION		UNKW			3420 KEYS HEIRS	-, -,	4/21/1914		2000	30945
47095002890000	10/24/1962	6/18/1960	STONESTREET LANDS	830	GR ABDOG	N 39.36		1 J L ASH	5/10/1960		BIG INJUN /SD/	1905	00289
47095003570000	10/23/1974	9/1/1962	LENNOX OIL & GAS	947	GR ABD-G\	39.36		2 W A BRITTON	7/18/1962		POCONO		00357
47095004610001		9/21/1973	EQUITABLE GAS COMPANY	919	GR SWDOP	39.36		5488/1 LUCY DAVIS	8/10/1973		DEVONIAN /SD/		00461
47095004700001		8/28/1974	EQUITABLE GAS COMPANY	1027	GR GSTGW	39.36	72 -80.8135	1 LUCY DAVIS	3/24/1974		GORDON		00470
47095004690001		1/17/1975	EQUITABLE GAS COMPANY	999	GR SWDOF	39.36	42 -80.8117	5491 CARL PERKINS	6/2/1974		DEVONIAN /SD/		00469
47095004710001		8/26/1975	EQUITABLE GAS COMPANY	933	GR SWDOF	39.36	24 -80.8169	5495 R E MOORE	8/2/1974	-,,	GORDON /SD/		00471
47095003660001		3/19/1975	EQUITABLE GAS COMPANY	914	KB SWDOP	39.36	02 -80.8087	3/5493/ CARL PERKINS	9/9/1974		MISSISSIPPIAN		00366
47095004780000		9/1/1976	EQUITABLE GAS COMPANY	1049	GR GAS	39.37	36 -80.8175	6229 CARRIE ROBINSON	7/18/1976		BIG INJUN /SD/		00478
47095004790000		7/1/1977	EQUITABLE GAS COMPANY	1010	GR GSTG	39.37	18 -80.8130	5503 ADDIE KEYS	5/17/1977		GANTZ /SD/		00479
47095005260000		4/23/1980	EQUITABLE GAS COMPANY	1045	GR GSTG	39.37	50 -80.8224	5507 B W PIESON	8/2/1979				00526
47095012110000		10/10/1987	CONSOL GAS COMPANY	970	KB GAS	39.35	19 -80.8170	2 KEYS AUSTIN I	9/16/1987	9/26/1987	DEVONIAN /SH/		01211
47095012190000		12/14/1987	CONSOL GAS COMPANY	937	KB GAS	39.35	69 -80.8082	1 BAGLEY W M	11/15/1987	11/25/1987	DEVONIAN /SH/	5020	01219
47095012200000		1/7/1988	CONSOL GAS COMPANY	827	KB GAS	39.35	43 -80.8094	1 MORRIS BURKE			DEVONIAN /SH/	4916	01220
47095012570000		10/24/1988	CONSOL GAS COMPANY	1030	KB 2GAS	39.36	05 -80.8065	1 FREEMAN			DEVONIAN /SD/		01257
47095012650000		11/8/1988	CONSOL GAS COMPANY	993	KB GAS	39.37	57 -80.8292	1 DAVIS GARY W			DEVONIAN /SD/	4992	01265
47095012640000		11/15/1988	CONSOL GAS COMPANY	936	KB GAS	39.35	69 -80.8196	2 KEYS AMOS	10/22/1988	11/1/1988	DEVONIAN /SD/	5022	01264
47095012720000		2/2/1989	CONSOL GAS COMPANY	1024	KB GAS	39.36	76 -80.8244	2 ASH HENRY & WILLIAM	1/10/1989	1/20/1989	DEVONIAN /SD/	5200	01272
47095012710000			CONSOL GAS COMPANY	953	KB GAS	39.36	11 -80.8192	1 LORKOVICH LEONA	1/17/1989	1/27/1989	DEVONIAN /SD/	5102	01271
47095012730000			CONSOL GAS COMPANY	1130	KB GAS	39.36	54 -80.8193	3 ASH HENRY & WILLIAM	1/23/1989	2/2/1989	DEVONIAN /SD/	5300	01273
47095012700000			CONSOL GAS COMPANY	1072	KB GAS	39.36	35 -80.8241	1 SMITH WILLIAM	1/29/1989	2/8/1989	DEVONIAN /SD/	5200	01270
47095012680000			CONSOL GAS COMPANY	1020	KB GAS	39.35	97 -80.8122	1 CUMBERLEDGE ASIA DELL	2/3/1989	2/13/1989	DEVONIAN /SD/	5100	01268
47095013290000			CONSOL GAS COMPANY	1086		39.36	86 -80.8158	1 STONEKING L B	11/7/1989	11/17/1989	BENSON /SD/	5200	01329
47095013580000			CONSOL GAS COMPANY	1034		39.37	26 -80.8176	2 KEYS ADDIE	12/20/1989	12/30/1989	DEVONIAN /SD/	5100	01358
47095013630000			CONSOL GAS COMPANY	1107		39.37		1 ANN FAYE	12/30/1989	1/9/1990	DEVONIAN /SD/	5190	01363
47095014050000			ALLIANCE PETROLEUM CORPORATION	986		39.37		1-A NICHOLS/DAVIS	7/9/1990	7/19/1990	BEREA	2136	01405
47095014030000			CONSOL GAS COMPANY	1008		39.38		2 LEGRANDE MARVIN	7/23/1990	-, -,	DEVONIAN /SH/	5210	01403
47095014230000			CONSOL GAS COMPANY	1166		39.36		1 SINGER	8/15/1990		DEVONIAN /SD/	5225	01423
47095013640000		• •	CONSOL GAS COMPANY	1065		39.38		2 ANN FAYE	9/1/1990		DEVONIAN /SD/	5200	01364
47095014370000			CONSOL GAS COMPANY	982		39.37		1 DOAK CLARA ETAL & SMITH	10/23/1990		DEVONIAN /SD/	5100	01437
47095014430000			CONSOL GAS COMPANY	1054		39.37		CONRAD1 DAVIS FANNY ETAL	11/22/1990		DEVONIAN /SD/		01443
47095014380000			CONSOL GAS COMPANY	1004		39.37		2 DOAK CLARA ETAL & SMITH	11/29/1990		DEVONIAN /SD/		01438
47095012740000			CONSOL GAS COMPANY	1038		39.36		1 WEEKLEY ISAIAH	12/24/1990		DEVONIAN /SD/		01274
47095014750000			CONSOL GAS COMPANY	1192		39.36		1 STONEKING BRUCE			DEVONIAN /SD/		01475
47095015030000 47095309400000			CONSOL GAS COMPANY	998		39.36		1 PURSLEY A A	10/4/1992	10/14/1992	DEVONIAN /SD/	5100	01503
47095700400000)	HOPE NATURAL GAS		PSEUDO			1489 BOWERS & DAVIS					30940
47095700400000		7/20/1977	CARTER OIL COMPANY	4407	PSEUDO			1 J L ASH					70040
4709501352		12/1/1989		1137									00484
4/03301332		12/1/1989	WIAAIT CIT	1095	GR GAS	39.38	74 -80.8237					5170	01352



WW-9 (4/16)

API Number 47 -	95	-
Operator's	Well No.	WEU4H5

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company	OP Code 306686
Watershed (HUC 10) Tributary of Camp Mistake Run	Quadrangle West Union
Do you anticipate using more than 5,000 bbls of water to comple	
Will a pit be used? Yes V No No	
If so, please describe anticipated pit waste: flowback	and residual solids
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 60
Proposed Disposal Method For Treated Pit Wastes:	5-14-18
Land Application	GOB 5/14/2018
Underground Injection (UIC Permit	Number 0014, 8462, 4037
Reuse (at API Number Various Off Site Disposal (Supply form WW-	-9 for disposal location)
Other (Explain	y for disposit footilon,
Yes. The closed to	op system will remove drill cuttings from the drilling fluid. The drill cuttings are then
	portation to an off-site disposal facility.
Drilling medium anticipated for this well (vertical and horizontal	l)? Air, freshwater, oil based, etc. See Attached
-If oil based, what type? Synthetic, petroleum, etc. Syn	nthetic Mud
Additives to be used in drilling medium? See Attached	
Drill cuttings disposal method? Leave in pit, landfill, removed o	offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be u	
-Landfill or offsite name/permit number? See Attached I	
Permittee shall provide written notice to the Office of Oil and Ga West Virginia solid waste facility. The notice shall be provided v	as of any load of drill cuttings or associated waste rejected at any
where it was properly disposed.	24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personally	examined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for ue, accurate, and complete. I am aware that there are summed and amprisonment. MAY 1 8 201
301	- W(D-
Company Official (Typed Name) Erin Spine Company Official Title Regional Land Supervisor	Environmental Protec
Company Official Title_regional zand dependen	
Subscribed and sworn before me this 4 day of	Nay , 20 18
Alucca & Wanstreet	Notary Public OFFicial Seal
My commission expires 4-7-2000	NOTARY PUBLIC STATE OF WEST VIRGINIA REBECCA L. WANSTREET EQT PRODUCTION COMPANY PO BOX 280

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

RECEIVED
Office of Oil and Gas

MAY 09 2018

Operator's Well No. WEU4H5

EQT Production Cor	npany		
Proposed Revegetation Treatn	nent: Acres Disturbed No A	dditional Prevegetation pF	f 6.3
Lime 3	Tons/acre or to correct to	pH 6.5	
Fertilizer type Gran	ular 10-20-20	_	
Fertilizer amount 1/3	3	_lbs/acre	
Mulch 2	To	ns/acre	
	<u>s</u>	Seed Mixtures	
Ten	nporary	Perma	nent
Seed Type KY-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
Plan Approved by:	agir Bles	1.	
Comments:/			
	*		
2110	1	1 1	O _f
Title: Oil& Gas Ins	ector	Date: 5/14/2018	M.
Field Reviewed? (1.11	Environ

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.

Synthetic 7 laleral

Office of Oil and Gas
MAY 1 8 2018

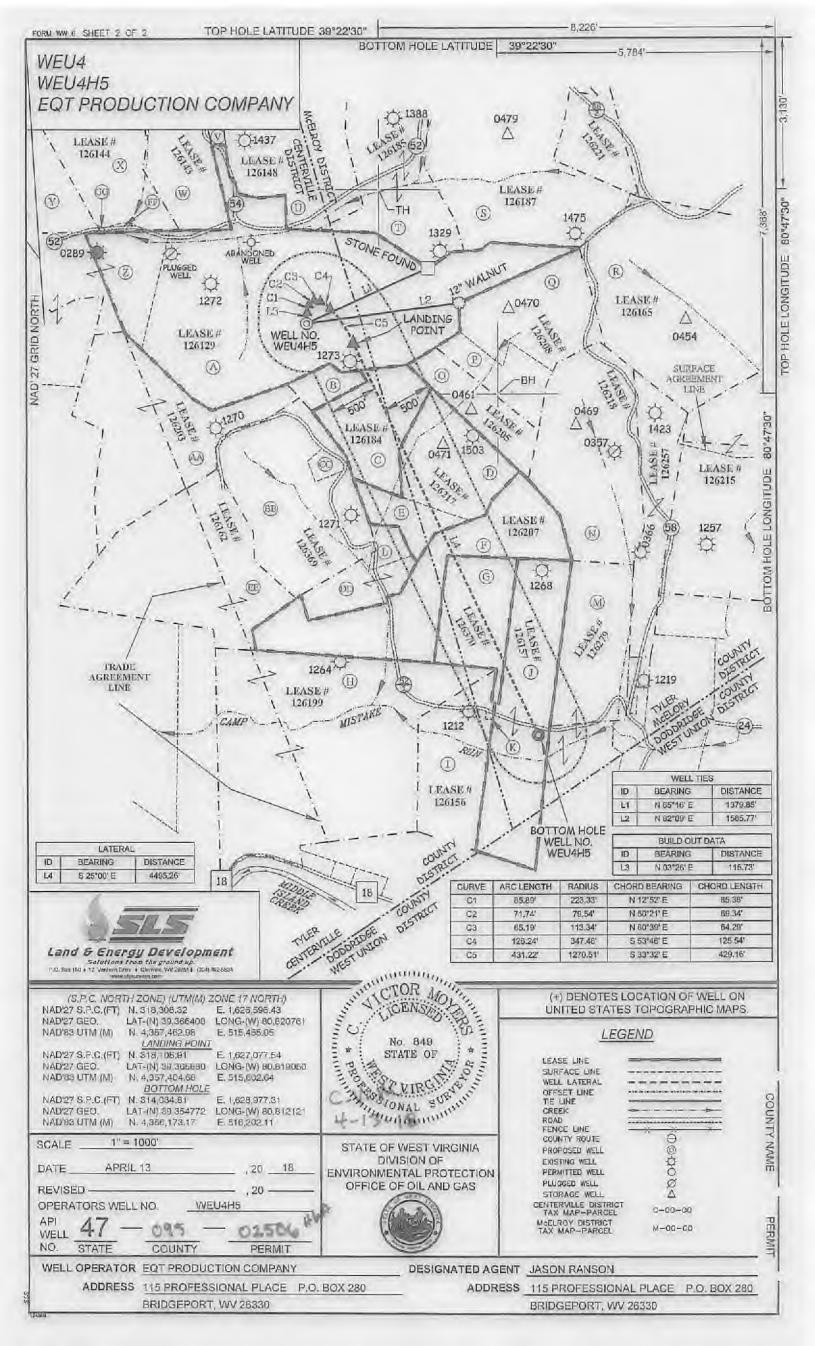
Wy Department of Environmental Protection



Site Specific Safety and Environmental Plan

EQT WEU4 Pad Alma Tyler County, WV

WEU4HS WEU4HO WEU	For Wells: 4H10 WEU4H11 WEL	14H12
WEU4H13 WEU4H14	WEU4HI5	
Date Prepared: February 16, 2018 EQT Production Regional Land Supervisor	Wy Oil and Gas Inspector	
Title 5/4/2018 Date	Title 5/14/2018 Date	Office of Oil and Gas MAY 1 8 2018 WW Department of



BOTTOM HOLE LATITUDE 39"22'30"

BH-

WEU4 WEU4H5 EQT PRODUCTION COMPANY

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH) NAD 27 S.P.C.(FT) N. 318,308.32 E. 1,626,596.43 LAT-(N) 39,386408 LONG-(W) 80.820761 N. 4,357,462.98 E. 515,455.05 NAD'27 GEO (M) MTU 88 DAM

LANDING POINT

NAD'27 S.P.C.(FT) N. 318,108.91 NAD'27 GEO. NAD'83 UTM (M) N. 4,357,404.68

E. 1,627,077.54 LAT-(N) 89.365880 LONG-(W) 80.819050 E. 515,602.64

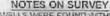
TH-

BOTTOM HOLE NZ NA

FORM WW 6 SHEET 1 OF 2

AD 2	7 GEO. 3 UTM (M)	N. 314,034.31 LAT-(N) 38,354772 N. 4,356,173.17	LONG-(W) 80.812121 E: 516,202.11
		SURFACE	OWNERSHIP
G	SUI	VFACE OWNER	ACRES

	SURFACE OWNE	RSHIP	
TAG	SURFACE OWNER	ACRES	T.M PAR
A	DONNAJ PETER	113 4 ACRES#	TM C-16-22
В	PAUL WEEKLEY (LIFE)	5 ACRES±	TM C-16-28
C	PAUL WEEKLEY (LIFE)	18 ACRES±	TM C-16-27
D	BRYAN W PRATT	23 ACRES±	TM M-21-41
B	BRYAN W. PRATT	6.75 ACRES±	TM M-21-42
F	ANZANETTA DRAIN HRS	46.88 ACRES±	TM C-18-03
G	LESLIE MOORE ET AL	20,25 ACRES+	TM M-23-01
H	ELIZABETH C. FISHBECK	98.81 ACRES±	TM C-18-04
1	CORBY A. & ANGELA J. HLINE	27.5 ACRES±	TM M-23-06
J	RICHARD & LISA L. HENDRICKSON	44.58 ACRES	TM M-23-02
K	RICHARD & LISA L. HENDRICKSON	0.25 ACRES±	TM M-23-05
L	PAUL WEEKLEY (LIRE)	3.37 ACRES±	TM C-16-29
M	JAMES T. & KATHRYN L. MENULTY	50.18 ACRES:	TM M-23-3.1
N.	CLAY M. PERKINS ET AL	50.25 ACRES=	TM M-21-37
0	EDWARD II & CAROLYN A. WHITE	16 ACRES±	TM M-21-40
P	EDWARD II & CAROLYN A. WHITE	12.50 ACRES±	TM M-21-39
Q	EDWARD II & CAROLYN A. WHITE	40 ACRES±	TM M-21-38
R	ASIA DELL CUMBERLEDGE	75.75 ACRES=	TM M-21-32
S	BRUCE & SANDRA STONEKING	69.44 ACRES=	TM M-21-28
T	BRUCE & SANDRA STONEKING	42.86 ACRES=	TM M-21-29
U	CHASE & REBA BARTRUG	109.94 ACRES	TM C-16-10
V	MARK A. & JOEL A. PROSSOR ET AL	2.50 ACRES±	TM C-16-15
W.	JEFFERY E. & ANITA L. HOOVER	24 84 ACRES=	TM C-16-16
X	CONRAD COSTILOW	46.17 ACRES	TM C-16-14
Y	JOHN R. ANDERS II	19.75 ACRES±	TM C-16-21.1
Z	RICHARD H. METCALF	61.57 ACRES=	TM C-16-17
AΛ	CHRIS BAUM ET AL	56.84 ACRES=	TM C-16-23
BB	LEONA N. LORKOVICH ET AL	45.89 ACRES=	TM C-16-24
CC	STONEWALL GAS COMPANY	2 ACRES±	TM C-16-24,2
DD	KENDRA & ROGER WYKE ET AL	9.5 ACRES±	TM C-18-02
EE	PEARLIE DAVIS	53 ACRES±	TM C-16-25
UF	RICHARD H. METCALF	.61 ACRES≢	TM C-16-14.1
GG	JOHN R. ANDERS, II	.09 ACRES±	TM C-16-14.2



NOTES ON SURVEY

NO WATER WELLS WERE FOUND WITHIN 250 OF PROPOSED GAS WIELL, NO ASRIGULTURAL DUILDINGS 2500 SQ. FT. OR GREATER WERE FOUND WITHIN 625 OF THE CENTER OF PROPOSED WELL PAD, WELL SPOT CIRCLE (SHEET 1) AND TOPO MARK SCALE ARE 1" = 2000'.

No. 849
STATE OF
VIRGINALISTANIA

5,784 1388 1437 SEE REFERENCE BOX FOR A.P.I. NUMBERS ABANDONED 办 0289 1272 WELL NO. non 0461 1270-0 1271

80"47"30"

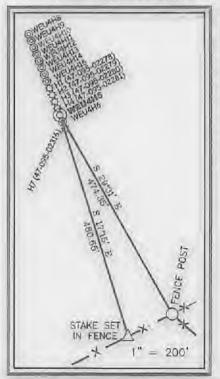
TOP HOLE LONGITUDE

80°47"30

BOTTOM HOLE LONGITUDE

ROYA	LTY OWNERS	
PAUL WEEKLEY	18 AG ±	LEASE NO. 126184
BLACKROCK ENTERPRISES LLC, ET AL	30 AC.±	LEASE NO. 126217
BEATRICE BRADY ET AL	47 ACLE	LEASE NO. 120207
DYLCIE F. CARROLL ET AL.	20.25 AC.±	LEASE NO. 126370
HESTER B. BRITTON ET AL	44 AC,±	LEASE NO. 126157

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

Land & Energy Development Solutions from the ground up.

849 MINIMUM DEGREE

OF ACCURACY

FORMATION_

P.S.

1/2500

er, WV 26351 ((304) 462-5634

FILE NO. 7701PWEU4H5.dwg (512894)

HORIZONTAL & VERTICAL CONTROL DETERMINED BY

DGPS (SURVEY GRADE TIE TO CORS NETWORK)

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. .20 18

DATE APRIL 13

REVISED_

OPERATORS WELL NO. WEU4H5

API WELL NO.

STATE

095 COUNTY 02506 PERMIT

, 20

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



WELL LIQUID TYPE: OIL GAS X INJECTIO	WASTE DISPOSAL	IF "GAS" PRODUCTIO	N_X_STORAGE	DEEPSHALLOW_	×
PAD ELEVATION	WATERSHED _	TRIBUTARY OF CAN	MP MISTAKE RUN		
DISTRICT CENTERVILLE	COUNTY	TYLER	QUADRANGLE	WEST UNION 7.5'	- 2
SURFACE OWNER DONNA J. PETER			ACREAGE	113.40±	- 2

ROYALTY OWNER WACO OIL AND GAS INC. ET AL

PHYSICAL CHANGE IN WELL (SPECIFY)

152± ACREAGE _

PROPOSED WORK: CONVERT _ _ DRILL DEEPER_ REDRILL.

126129 LEASE NO. FRACTURE OR STIMULATE __X PLUG OFF OLD

PERFORATE NEW FORMATION_ PLUG AND ABANDONL

CLEAN OUT AND REPLUG_ _ OTHER

MARCELLUS TARGET FORMATION _ 6,680 ESTIMATED DEPTH_

WELL OPERATOR EQT PRODUCTION COMPANY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

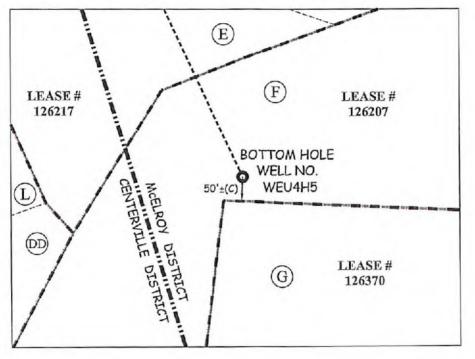
BRIDGEPORT, WV 26330

DESIGNATED AGENT JASON RANSON

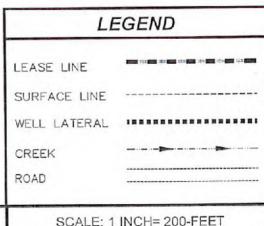
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330

4709502505



RECEIVED Gas Office of Oil and Gas 8105 **e o** YAM WV Department of Environmental Protection



DATE: 04-13-18 DRAWN BY: MGF BOP 1"= 200"

7812

BOTTOM HOLE DETAIL FOR WEU4H5

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



SCALE: 1 INCH= 200-FEET 400' 0 200'

WW-6A1 (5/13)

Operator's Well No.	WEU4H5
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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 thereof Gas possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the Figure Coffice of Oil and Gas, including but not limited to the following: WEX 09 5018 MA Debatment of wy Department of Environmental Protection

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

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

Well Operator: EQT Production Company

By:

Erin Spine

Its:

Regional Land Supervisor

Page 1 of 2

Operator's Well No.

WEU4H5

ase No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
126129	Waco Oil & Gas Co. Inc., et al (current royalty owner	7)	**	
ILVILO	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>126184</u>	Paul Weekley (current royalty owner)			
	Paul Weekly	Equitable Gas Company		DB 195/369
	Equitable Gas Company	Equitrans,Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, Inc.	EQT Production Company		DB 396/640
126217	ET Blue Grass LLC, et al (current royalty owner)		**	
120211	Richard E. Moore, et al. (original lessor)	Equitable Gas Company		DB 198/405
	Equitable Gas Company	Equitrans,Inc.		DB 274/471
	Equitrans, Inc.	Equitrans, LP		DB433/777
	Equitrans, LP	EQT Production Company		DB 396/640
126207	Beatrice Brady, et al (current royalty owner)		**	
IZUZUI	Paul Weekly, et al (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
126370	Dylcie F Carroll, et al (current royalty owner)			
120310	Clara J Dewitt, et ux (original lessor)	Stonewall Gas Company		271/554
	Stonewall Gas Company	Dominion Resources, Inc		9/412
	Dominion Resources, Inc	CNX Gas Company LLC		384/191
	CNX Gas Company LLC	EQT Production Company		578/263
			**	
<u>126157</u>	Hester B. Britton, et al (current royalty owner)	Switchle Con Company		DB 192/250
	Asia Dell Cumberledge, et al (original lessor)	Equitable Gas Company		DB 274/471
	Equitable Gas Company	Equitrans,Inc.		
	Equitrans, Inc.	Equitrans, LP		DD-305/640
	** Per West Virginia Code Section 22-6-8.	EQT Production Company		DB433/777 DB 396/640 RECEIVED and Gas RECEIVED OF 2013 MAY O 9 2013 MAY Department of Environmental Protect
	** Per West Virginia Code Section 22-6-8.			MAY O Depart



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

checca Wantreet

Office of Oil and Gas

NAY 09 2018

Wy Department of Protection
Environmental Protection

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

Date of Notice Certification: 05/07/2018		A	API No. 47- 95		
			Operator's	Well No. WEU	4H5
		•	Well Pad N	ame: WEU4	
	ne provisions in West Virginia Code § 2	22-6A, the Operator has provi	ded the req	uired parties w	rith the Notice Forms listed
	tract of land as follows:	•	n		
State:	Titos		Easting: Northing:	515455.053 4357462.978	
County: District:	Tyler Centerville	Public Road Acces	•	W-18	
Quadrangle:	West Union	Generally used far		Donna J Peters	
Watershed:	Tributary of Camp Mistake Run				
information r of giving the requirements Virginia Cod	ed the owners of the surface described equired by subsections (b) and (c), sect surface owner notice of entry to survof subsection (b), section sixteen of the § 22-6A-11(b), the applicant shall ten have been completed by the applicant.	ion sixteen of this article; (ii) rey pursuant to subsection (a this article were waived in v	that the red), section to writing by	quirement was en of this artic the surface ow	deemed satisfied as a result cle six-a; or (iii) the notice yner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oper trator has properly served the required		is Notice C	ertification	OOG OFFICE USE
TLEASE CH	ECK ALL HIAT AFFLT				ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY or [■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVE	Y or 🔳 NO PLAT SURVE	Y WAS CO	ONDUCTED	RECEIVED
■ 3. NO	1	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PARTY OF PARTY FOR PART			RECEIVED/ NOT REQUIRED
:		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUI	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

Erin Spine , have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 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

304-848-0035

Its: Telephone: Regional Land Supervisor

Address:

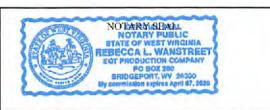
2200 Energy Drive

Canonsburg PA 15317

Facsimile: 304-848-0041

Email:

espine@eqt.com



Subscribed and sworn before me this 4 day of May

Notary Public

2018

My Commission Expires

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.

> RECEIVED Office of Oil and Gas

MAY 09 2018

4709502506 WATER SOURCE LOCATIONS FOR W.H. ASH ET AL LEASE WEU4 WELLS Wilbur Ridge SITE 10 Fairview Ch RECEIVED Office of Oil and Gas E MAY 0 9 2818 WV Department of Environmental Protection LEGEND WATER WELL SCALE: 1-INCH=1000-FEET CREEK 1000 2000 3000 0 CISTERN POND TOPO SECTION OF: OPERATOR: EQT PRODUCTION COMPANY 7.5' QUAD WEST UNION, WV 115 PROFESIONAL PLACE Land & Energy Development DISTRICT COUNTY TAX MAP-PARCEL NO. P.O. BOX 280 CADD FILE: CENTERVILLE BRIDGEPORT, WV 26330 **TYLER** 16-22 04/16/18 7701WSWEU4-R34

WW-6A (9-13)

API NO. 47-95	
OPERATOR WELL	NO. WEU4H5
Well Pad Name: WE	U4

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

Notice Time Requirement: notice shall be provided no later the Date of Notice: 5/7/2018 Date Permit Application Filed: 5/7/2018	RECEIVED
Notice of:	MAY 0 9 2018
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)
	HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or registered mail or by any method of delivery that requires a receip sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be looil and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted purs operator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, consimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within or provide water for consumption by humans or domestic animals; as proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not code R. § 35-8-5.7.a requires, in part, that the operator shall also	pit as required by this article shall deliver, by personal service or by at or signature confirmation, copies of the application, the erosion and at the well plat to each of the following persons: (1) The owners of record of the surface tract or tracts overlying the cif the surface tract is to be used for roads or other land disturbance as suant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed struction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to mod (6) The operator of any natural gas storage field within which the area tenants in common or other co-owners of interests described in the meight, article one, chapter eleven-a of this code. (2) Notwithstanding any ot notice to a landowner, unless the lien holder is the landowner. W. Va.
water purveyor or surface owner subject to notice and water testin Application Notice WSSP Notice E&S Plan Notice	
☑ SURFACE OWNER(s)	☑ COAL OWNER OR LESSEE
Name: See Attached Address:	Name: See Attached Address:
Name:Address:	COAL OPERATOR Name:
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached Address:	Address: SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See Attached Address:
Name:Address:	
☑ SURFACE OWNER(s) (Impoundments or Pits) Name: See Attached	OPERATOR OF ANY NATURAL GAS STORAGE FIELD HECEIVED Name: Address: Office of Oil and Ga
Address:	*Please attach additional forms if necessary MAY 0 9 2018

WW-6A (8-13) API NO. 47-957 0 9 5 0 2 5 0 6

OPERATOR WELL NO. WEU4H5
Well Pad Name: WEU4

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A (8-13) PI NO. 47-95 4 7 0 9 5 0 2 5 0 6

OPERATOR WELL NO. WEU4H5

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

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

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

WW-6A
(8-13)

PI NO. 47-95 7 0 9 5 0 2 5 0 6

OPERATOR WELL NO. WEU4H5
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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

WW-6A (8-13) PINO. 47497 0 9 5 0 2 5 0 6

OPERATOR WELL NO. WEU4H5

Well Pad Name: WEU4

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 BEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
REBECCA L. WANSTREET
EQT PRODUCTION COMPANY
PO 807 280
BRIDGEPONT, WV 28330
My commission starts April 97, 2020

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

My Commission Expires 4-7-2000

Surface Owners:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

Access/ Other Disturbance:

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

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

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

RICHARD METCALF 415 WILDLIFE LANE BRIDGEPORT, WV 26330

Pit/ Impoundment or AST

DONNA J PETER 733 RIDGE ROAD WILBUR, WV 26320

Coal Owners:

ROSEMARY BRANDON 3013 DELEWARE AVE KENNER LA 70065

RECEIVED
Office of Oil and Gas

MAY 09 2018

4709502506

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	Paguirament: Notice shall be	e provided at least TEN (10) days prior to filing a	nermit application.
Date of Notic		Date Permit Application Filed: 03/08/2018	
Delivery met	hod pursuant to West Virgi	nia Code § 22-6A-16(b)	
☐ HAND	CERTIFIED 1	MAIL	
DELIVE		ECEIPT REQUESTED	
receipt request drilling a hort of this subsection managed	sted or hand delivery, give the izontal well: <i>Provided</i> , That it ition as of the date the notice way be waived in writing by the	least ten days prior to filing a permit application, surface owner notice of its intent to enter upon the notice given pursuant to subsection (a), section to was provided to the surface owner: <i>Provided, hower</i> surface owner. The notice, if required, shall include the notice mail address of the operator and the operator	ne surface owner's land for the purpose of en of this article satisfies the requirements evever. That the notice requirements of this ude the name, address, telephone number,
Notice is he	reby provided to the SUR		
Name: See Atta	ched	Name: See Attached	
Address:	<u>.</u>	Address:	
the surface of State: County: District: Quadrangle:	wner's land for the purpose of W Tyler Centerville West Union	drilling a horizontal well on the tract of land as for the tract of lan	bllows: 515455.053 4357462.978 WV-18 Donna J Peters
Watershed:	Tributary of Camp Mistake Run		
Pursuant to facsimile nur related to hor	mber and electronic mail add rizontal drilling may be obtain	16(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of WV 25304 (304-926-0450) or by visiting	

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 deprivacyofficer@wv.gov.

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. STONEKINÉ
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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MAY 0 9 2018

WW-6A5 (1/12)

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

Notice Time Date of Notic	Requirement: notice shall be provided note: 05/07/2018 Date Permit Ap	o later than the filing oplication Filed: 05/0		application.	
Delivery met	hod pursuant to West Virginia Code § 2	22-6A-16(c)			
CERTII	FIED MAIL	HAND			
	RN RECEIPT REQUESTED	DELIVERY			
return receipt the planned o required to be drilling of a l damages to th	V. Va. Code § 22-6A-16(c), no later than requested or hand delivery, give the surfapperation. The notice required by this subspection (b), section ten or horizontal well; and (3) A proposed surface surface affected by oil and gas operation as required by this section shall be given to	ace owner whose land absection shall include f this article to a surface use and compens as to the extent the da	will be used for the copy ace owner whose ation agreement mages are comp	r the drilling of of this code se e land will be u t containing an pensable under:	f a horizontal well notice of action; (2) The information used in conjunction with the offer of compensation for article six-b of this chapter.
(at the addres Name: See atta		ime of notice): Name:	See Attached		
Address:		Address	S:		
operation on State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(c), notice if the surface owner's land for the purpose of the surface owner's land for the surface owner's land for the surface of the surface owner's land for the surface of the surface owner's land for t	of drilling a horizonta UTM NAD 8 Public Road A	l well on the trace Easting: Northing:	ct of land as fol 515455.053 4357462.978 WV-18 Donna J Peters	llows:
Watershed:	Tributary of Camp Mistake Run				
Pursuant to V to be provide horizontal we surface affect information r		surface owner whose impensation agreement the damages are continued from the Secretary	e land will be unt containing an ompensable und arry, at the WV (304-926-0450)	ised in conjunct offer of composer article six-b Department of	etion with the drilling of a ensation for damages to the of this chapter. Additional f Environmental Protection
Telephone:	IT: EQT Production Company 304-848-0035	Addiess.	2200 Energy Drive Canonsburg PA 153		MAY 0 9 2018
Email:	espine@eqt.com	Facsimile:	304-848-0041		WIFT WWW.CO.C
Oil and Gas	Privacy Notice: f Oil and Gas processes your personal info	ormation, such as nam	ne, address and t	elephone numb	WV Department of Environmental Protection per, as part of our regulatory

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

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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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Office of Oil and Gas

MAY 09 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Revised February 28, 2018

Jill M. Newman
Deputy Commissioner

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

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

WEU4H5

WEU4H6

WEU4H10

WEU4H11

WEU4H12

WEU4H13

WEU4H14

WEU4H15

Dear Mr. Martin,

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

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

Very Truly Yours,

Gary K. Clayton P.E.

Day K. Clayton

Regional Maintenance Engineer

Central Office Oil & Gas Coordinator

RECEIVED
Office of Oil and Gas

MAY **0 9** 2018

WV Department of Environmental Protection

Cc: N

Nick Bumgardner

EQT Production Company

CH, OM, D-6

File

Anticipated Frac Additives Chemical Names and CAS numbers

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

JOB 5/14/2018

DBH 5-14-18

Office of Oil and Gas

MAY 1 8 2018

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

PROJECT INFORMATION

TAX PARCEL

GOTTERVILLE DISTRICT

MAP 16

MICUROY DISTRICT

MAP 11

SURFACE OWNER

L'S & SANDRASTONDING

MOR ROY (INSTRUCT

TYLER COUNTY, W)

TOTAL PROPERTY AREA 19, 448 ACRES.

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

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

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

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

LOCATION COORDINATES

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

WELLSCENTER OF WELL PAD LATITUDE 39.386639 LONGITUDE 80.820645 (HAD 83) LATITUDE 4, 351, 471 LONGITUDE 513, 448 (LTM 1440 63 METERS)

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

WELL-4 FLOW DEVICE OF COMPLETION PIT
LATITUDE SYSTEMS LONGITUDE SUBSTITUTE (NAD 83)
LATITUDE 4 327 406 LONGITUDE 515 024 JUTM NAD KAMETERAS

SITE DISTURBANCE COMPUTATIONS

TOTAL ASSIGNT DISTURBANCE = 35.61 ACRES

GENERAL DESCRIPTION

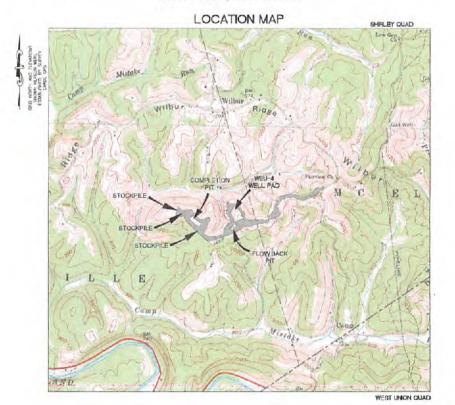
THE WELLS PAD AND PIT'S ARE RENO CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL IMPROBLING SHALE GAS WELLS.

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

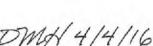


LIST OF DRAWINGS

- 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





DATE: 03/02/2016 SCALE 1"- 1000"

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



