

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 Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

PERMIT MODIFICATION APPROVAL Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re: Permit Modification Approval for 514464

47-095-02256-00-00

Lengthen Lateral

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

James A Martin

Chief

If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: 514464 Farm Name: WELLS, VIVIAN J.

U.S. WELL NUMBER: 47-095-02256-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 4/27/2017

Promoting a healthy environment.

4709502256

API NO. 47-095 - 0	02256
OPERATOR WELL	NO. 514464
Well Pad Name:	SHR60

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

1) Well Operate	or: EQTP	roduction C	Company	306686	Tyler	McElroy	Shirley
				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number	r: <u>514464</u>	· -	Well Pad	Name: SHR6	0	
3) Farm Name/	Surface Ow	ner: Vivian	J. Wells e	et al Public Road	d Access: 60/2		
4) Elevation, cu	urrent groun	d: <u>1011'</u>	El	evation, proposed p	post-construction	on: 1011'	
5) Well Type	(a) Gas	X	Oil	Unde	rground Storag	je	
	Other						
	(b)If Gas	Shallow	X	Deep			
		Horizontal	X			Dn	14 17-17
6) Existing Pad	l: Yes or No	Yes				4-	17·17
7) Proposed Ta Marcellus, 65	_	• •		ipated Thickness a	nd Expected Pr	essure(s):	
8) Proposed To	tal Vertical	Depth: 659	96'				
9) Formation a	t Total Verti	ical Depth:	Marcellus	3			
10) Proposed T	otal Measu	red Depth:	20794'				
11) Proposed H	łorizontal L	eg Length:	13468'		·		
12) Approxima	nte Fresh Wa	ater Strata D	epths:	83, 133, 570, 90	6'		
13) Method to	Determine F	Fresh Water	Depths: _	From offset wells			
14) Approxima	ite Saltwatei	r Depths: 1	198, 1865'				
15) Approxima	ate Coal Sea	m Depths:	19, 420, 6	86, 875,1315'			
16) Approxima	ate Depth to	Possible Vo	oid (coal m	ine, karst, other): _	None reported		
17) Does Propedirectly overly				ms Yes	No	x	
(a) If Yes, pro	ovide Mine	Info: Nam	e:				
(), k		Dept					
		Sean					
		Own	-				REGEINER
						Office	of Oil and Gas

APR 24 2017

WV Department of Environmental Protection

WW-6B	
(04/15)	

47 0 9 5 0 2 2 5 6PI NO. 47- 095 - 02256

OPERATOR WELL NO. 514464 Well Pad Name: SHR60

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	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	60	60	90 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1006	1006	1048 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2788	2788	1234 ft^3 / CTS
Production	5 1/2	New	P-110	20	20794	20794	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					0.010		

1-12-N Dwy

ТҮРЕ	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26	.375	1378	25	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance 2014-17	1.2
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance 2014-17	1.25 / 1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:			
Sizes:			
Depths Set:		O#	REGEIVED

APR 24 2017

WV Department of Environmental Protection

WW-6B
(10/14)

47 0 9 5 0 2 2 5 6 API NO. 47- 095 - 02256

OPERATOR WELL NO. 514464 Well Pad Name: SHR60

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 5195'. 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 0.3%) 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 250,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 250,000 pounds of sand 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 centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

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

Surface (Class A Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries Intermediate (Class A Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries.

Lead (Class H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender) Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss). .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % 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. Canal Sauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or Officipe in the property of the contract of the contra Check volume of cuttings coming across the shakers every 15 minutes.

APR 24 2017

*Note: Attach additional sheets as needed.

WV Department of Environmental Pantaction

SHR60H5 Well **EQT Production**

Shirley Quad Tyler County, WV

Azimuth 157 13969 Vertical Section

te: Diagram is not to scale	Тор	Base			Casing and Cementing			Deepest Fresh Water: 906'				
Formations	TVD	TVD			Type	Conductor	Surface	Intermediate	Production			
Conductor	6		711		Hole Size, In.	26	17 1/2	12 3/8	8 1/2			
Conductor		7	4111	1111	Casing Size, OD In.	20	13 3/8	9 5/8	5 1/2			
Base Fresh Water	90	06	111	111	Casing Wall Thickness, In.	0.375	0.380	0.395	0.361			
Dubb From Hater			111		Depth, MD	60'	1,006'	2,788'	20,794'			
Surface Casing	10	06	⊿ 11	111	Weight	78.6#	54.5#	40#	20#			
earmer smarrig			- 1		Grade	A-500	J-55	A-500	P-110			
Base Red Rock	13	15	- 11	11	New or Used	New	New	New	New			
			- 11		Burst (psi)	1378	2,700	3,950	12,640			
Maxton	1534	1587	- 11		Cement Class	Α	A / Type 1	A / Type 1	A/H			
Big Lime	1829		- 11	11	Cement Yield	1.18	1.19	1.19	1.123 / 2.098			
Weir	2251	2317	- 11		Top of Cement (Planned)	Surface	Surface	Surface	500' above top Producing 2			
Gantz		- 2415	- 11	11	Method	Displacement	Displacement	Displacement	Displacement			
Fifty foot		1496	- 11	11	Est. Volume (cu ft)	90	1,048	1,234	4,172			
Thirty foot Gordon	2595						0.1.1		Calcium Carbonate, Fluid L Extender, Dispersent, Viscos			
Intermediate Casing Bayard	27	88 - 3067	4	_	Possible Additives	N/A	Calcium Chloride	Calcium Chloride	Defoamer, POZ, Bonding A Retarder, Anti-Settling/Suspe Agent			
Warren Speechley Balltown A Riley Benson Alexander Sonyea Middlesex Genesee Genesee Genesee Hullyo OHamilfor	4965	- 3551 - 3925 - 4585 - 5002 - 5294 - 6381 - 6425		KOP @ 5,195'	Dan H 4-17-17							
Marcelles Production Casing III Production	U	- 6623 MD	Land co				Est. TD @	6,596' 20,79	TVD 4' MD			

13,468' Lateral

Proposed Well Work:

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

Drill the vertical to an approximate depth of 5195'.

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

WW-6A]
(5/13)	

Operator's Well No.	514464	

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	12-74-7-17-18-18-18-18-18-18-18-18-18-18-18-18-18-		12001	2-1-2
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

see attached

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way 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.

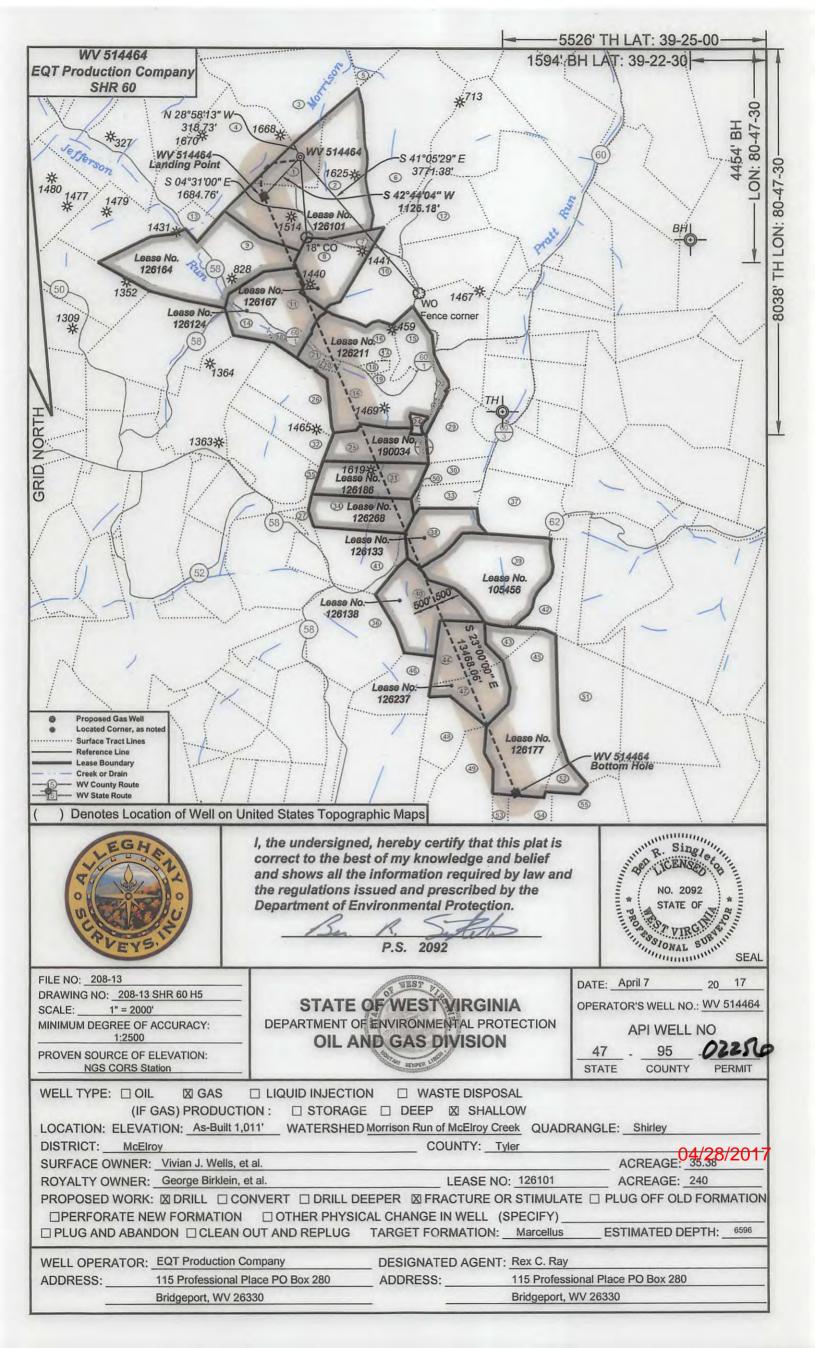
Well Operator: EQT Production Company CEIVED

By: Victoria J Roark

Its: Permitting Supervisor APR 2 4 2007

WV Department of 2
Environmental Protection

						4		U	9	၁	U	4
Lease No.		Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	- T		•	•	_	_	
	<u>126101</u>	George Birklein, et al (current royalty owner)		••		='						
		WM. Blaine Underwood Et ux et al (original lessor)	Equitable Gas Co.		DB186/86							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitrans, Inc./Equitable Gas Company/Equitable Resru			DB433/777							
		Equitrans, L.P.	EQT Production Company		DB396/640							
		Equitrens, L.P.	EQT Production Company		OG420/10							
		•	,									
	5-18-7.1	Brenda J. Ashley, et al	EQT Production Company		508/181	Subsurface						
	5-18-7.1	Patricia A. Keys	EQT Production Company		514/375	Subsurface						
			,									
	126164	Stephen Seckman, et al (current royalty owner)										
		Retha Seckman, et al	Equitable Gas Co.		DB192/351							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitans, Inc./Equitable Gas Company/Equitable Resre	= -		DB433/777							
		Equitans, LP	EQT Production Company		DB396/640							
		Equation E	Ear i rossesson company		2003000							
	126124	Donald Bible, et al (current royalty owner)		••								
		Clyde Stewart, et ux	Equitable Gas Co.		LB191/165							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitable Gas Company/Equitable Resro			DB433/777							
		Equitans, L.P.	EQT Production Company		DB396/640							
		Equirons, E.F.	EQ1 Floubclion Company		DD390/040							
	<u>126167</u>	Reading Dans at allowment assetts asset		••								
	120101	Berdina Rose, et al (current royalty owner)	Equitable Gas Co.		DB192/425							
		Savannah Pratt, et al (original lessor)	•									
		Equitable Gas Co.	Equitrans, Inc.		D8274/471							
		Equitrans, Inc./Equitable Gas Company/Equitable Resre			DB433/777							
		Equitrans, L.P.	EQT Production Company		DB396/640							
	126211	Below the Fifth Sand		••								
		John A. Dillon, et al (current royalty owner)		•								
		Mary E. Underwood, et vir (original lessor)	Hope Natural Gas Co.		DB70/477							
		Hope Natural Gas Co.	Consolidated Gas Supply Corp.		DB169/26							
		Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.		DB249/287							
		Consolidated Gas Transmission Corp.	CNG Development Co.		DB253/57							
		CNG Development Co.	Dominion Appalachian Development, Inc.		DB337/340							
		Dominion Appalachian Development, Inc.	Consol Gas Appalachian Development, LLC		CB9/131	name change						
		Consol Gas Appalachian Development, LLC	CNX Gas Co., LLC		CB9/206	name change						
		CNX Gas Co., LLC	EQT Production Co.		DB479/55							
		CNX Gas Co., LLC/Noble Energy, Inc	EQT Production Co.		AB505/222							
												
	190034	Paul Weekley (current royalty owner)		**								
		Paul Weakley, et al (original lessor)	EQT Production Co.		DB548/119							
	126186	Bruce L. Stoneking, et al (current royalty owner)		•								
		Addie Keys & Paul Weekley (original lessor)	Equitable Gas Company		DB195/372							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitrans, Inc/Equitable Gas Company/Equitable Resn	Equitrans, L.P.		DB433/777							
		Equitrans, L.P.	EQT Production Company		DB396/640							
		•										
	126268	Logan Hassig, et al (current royalty owner)		••								
		Logan Hassig, et ux (original lessor)	Equitable Gas Company		205/119							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitrans, Inc./Equitable Gas Company/Equitable Reso	•		DB433/777							
		Equitrans, L.P.	Equitable Production Company		DB396/640							
		-4										
	126133	Dorothy H. Bode (current royalty owner)		•								
	122124	Mollie Scott (original lessor)	Equitable Gas Company		DB191/417							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitrans, Inc/Equitable Gas Company/Equitable Reso	•		DB433/777							
		Equitrans, L.P.	EQT Production Company		DB396/640							
		_11	• •									
	105456	Kimberly Wilcox (current royalty owner)		••								
		Olive I. Stewart, et vir (original lessor)	J L Newman		LB69/42							
		J. L. Newman	The Philadelphia Company of West Virginia		OG455/390							
		The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company		DB101/36							
		Pittsburgh and West Virginia Gas Company	Equitable Gas Co.		132/414							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitans, Inc/Equitable Gas Company/Equitable Reso	·		DB433/777							
		Equitrans, L.P.	EQT Production Company		DB396/640							
		Equipo, E.i.										
	126138	Sandra Lee Freeman-Carrao, et al (current royalty o	owner)	••								
	184.44	E.K. Freeman, Et ux (original lessor)	Equitable Gas Company		224/463							
		Equitable Gas Co.	Equitrans, Inc.		DB274/471							
		Equitable das 66.	Equitrans, L.P.		DB433/777							
		Equitrans, L.P.	EQT Production Company		DB396/640							
		•	· •			RE	CF	11/	Fr	١		
	126237	Brenda Jane Becker.et al (current royalty owner)		••	^-					,		
	-4:	India Davis, et al (original lessor)	Equitable Gas Company		200/34	fice of	\mathbf{O}	il o	nd	0	٥.	
		Equitable Gas Co.	Equitrans, Inc.		DB274/471			a	ı ıu	J	as	
		Equitrans, Inc.	Equitrans, L.P.		DB433/777							
		Equitans, L.P.	EQT Production Company		DB396/640	APR	2	4 2	017			
			-			II	.	=	U 1/			
	126177	Regina M.Buck, et al (current royalty owner)		••								
	TORTIL	J.S. Buck, et ux (orignal lessor)	Equitable Gas Company		DB97/53 A	V Dep		4	_		_	
		Equitable Gas Company	Equitrans, Inc		154/475 ¥ ¥	A MAK	Jar	ım	en	t n	f	
		Equitrans, Inc	Equitrans, L.P.		529631/ir	nm~.	74-		١	. •		
		Equitrans, L.P.	EQT Production Company		DB396/640	onmei	иa	ur	roi	ec	tin	n
										_		



WV 514464 Well References EQT Production Company 5/8" Rebar SHR 60 found 5/8" Rebar set Tract I.D. Tax Map No 158.10 18 13 Tyler McElroy d Estate, et al. 104.73 McElroy 18 Tyler n. et al. 18 7.1 Tyler McElroy Patricia A. Keys, et al. 102.31 Tyler 18 McElroy 2.92 18 11 Tyler 132.00 SHR 60 H50 McElroy 18 15 Tyler Susan Spences 8.00 Donald E. Bible Sr WV 514464 18 23 Tyler McElroy 111.75 1" = 200" McElroy 11 18 22 Tyler Donald E. Bible Sr 39.26 12 Notes: WV 514464 coordinates are NAD 27 N: 328,522.21 E: 1,629,439.06 SHR 60 0 H1, 514460 H2, 5144610 OH3, 514462 13 18 Tyler McElroy OK Nan Keys 13.02 14 15 McElroy 18 22.1 Tyler 14.00 NAD 27 Lat: 39.394563 Long: -80.811236 NAD 83 UTM N: 4,360,589.15 E: 516,269.14 18 Tyler 20.2 Richard E. Hansen 19.96 16 17 H6, 5144630 H5, 514464 H8, 5154340 H7, 514466 H8, 5154340 H10, 515435 H10, 5154360 H11, 515437 18 Tyler McElroy Clarence G. Dillon, et al 113.42 WV 514464 Landing Point coordinates are NAD 27 N: 327,694.99 E: 1,628,675.02 18 20,6 Tyler Clarence G. Dillon Jr 0.71 NAD 27 Lat: 39.392261 Long: -80.813896 NAD 83 UTM N: 4,360,333.24 E: 516,040.58 18 19 Tyler Tyler Clarence G. Dillon Jr. Clarence G. Dillon, et al 18 20.5 McElroy 2.94 McElroy 113.42 WV 514464 Bottom Hole coordinates are NAD 27 N: 315,297.58 E: 1,633,937.41 NAD 27 Lat: 39.358436 Long: -80.794646 NAD 83 UTM N: 4,356,583.13 E: 517,706.79 20 18 20.4 Tyler McElroy John A. Dillon 2.04 McElroy 21 Tyler 4.69 18 McElroy 22 18 20.1 Tyler William R. Doll Jr, et al 3.06 West Virginia Coordinate system of 1927 (North Zone) based upon Differential GPS Measurements. Plat orientation, comer and well ties are based upon the grid north meridian. Well location references are based upon the grid north 23 McElroy Tyler 2.43 Tyler 21 45 Clarence G. Dillon, et al 2.43 25 26 McElroy 36.00 73.39 15 Tyler Paul Weekle Tyler Donnie N. & Kim M. Wiln Tyler Tyler 5.00 5.90 Peggy A. White 27 21 McElroy UTM coordinates are NAD83, Zone 17, Meters 28 18 21 Barbara Wi 29 22 Tyler McElroy James B. Scot 30.00 30 18 Tyler McEln 21 1711 31 21 16 Tyler McElroy 36.00 McElroy 32 Tyler 21 14 N. & Kim M. 73,39 33 21 19 Tyler McElroy ard E. & Barbara A. M 20.00 34 35 McElroy 21 17 Tyler 32,95 McElroy 21 27 Tyler ie N. & Kim M. Wil 7.50 36 37 Tyler Tyler McElroy Asia Dell Cur 75.75 32 19 Berdina Rose, et al. 55.00 1668 1670 38 39 21 21 Tyler McElroy James B. Scott 30,00 McElroy Bruce W. Boland 86.75 Bruce W. Boland Peggy A. White 0 40 21 33 Tyler McElroy 52.46 41 Tyler 1625 42 22 18.1 Tyler McElroy 18.91 ce W. Bolane McElroy 43 Tyler R. & Eliza 44 22 16 Tyler McElroy 29.00 45 46 18 d R. & Elizat 21 34 Tyler 35,43 1514 47 48 McElroy Tyler 1441 ah T. Weekley Heirs, et al. 3 West Union 27.50 49 50 Scale 1" = 2000 Tyler 20 James M. Petrovich, et al 51 52 West Union Owner Stephen Seckman, et al. Donald Bible, et al. Berdina Rose, et al. John A. Dillon, et al. Acres 113 Lease No. 126164 Robert B. & Marry E. Simp 53 4.1 Doddridge West Un 126124 126167 54 d R. & Ell 55 ge West Union Charles C. Hittel III 126211 145 d Gas Wel 36 36 Paul Weekley Bruce L. Stoneking, et al. 190034 Located Corner, as noted 126186 Surface Tract Lines 126268 36 Logan Hassig, et al. Dorothy H. Bode Kimberly Wilcox Sandra Lee Freeman-Corrao, et al. Reference Line 126133 40 96 82 Lease Boundary Sub Surface Easements Parcel No. Acres 05-18-7.1 102.31 Creek or Drain Owner Brenda J. Ashley, et vir. 126138 WV County Route WV State Route Brenda Jane Becker, et al. Regina M. Buck, et al. 126237 56 05-18-7.1 102.31 Patricia A. Keys 126177 NO. 2092 STATE OF VIRGINIAN SE I, the undersigned, hereby certify that this plat is EGH 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 Department of Environmental Protection. P.S. 2092 SEAL FILE NO: 208-13 STATE OF WEST VIRGINIA DATE: April 7 DRAWING NO: 208-13 SHR 60 H5 OPERATOR'S WELL NO .: WV 514464 SCALE: 1" = 2000" DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO 1:2500 OIL AND GAS DIVISION 47 95 02254 PROVEN SOURCE OF ELEVATION: NGS CORS Station STATE COUNTY WELL TYPE: OIL X GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW LOCATION: ELEVATION: As-Built 1,011' WATERSHED Morrison Run of McElroy Creek QUADRANGLE: Shirley COUNTY: Tyler DISTRICT: McElroy ACREAGE: 04/28/201 SURFACE OWNER: Vivian J. Wells, et al. ROYALTY OWNER: George Birklein, et al. LEASE NO: 126101 ACREAGE: 240 PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION □PERFORATE NEW FORMATION □ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _ ESTIMATED DEPTH: _ ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray

ADDRESS:

115 Professional Place PO Box 280

Bridgeport, WV 26330

ADDRESS: _

115 Professional Place PO Box 280

Bridgeport, WV 26330



April 11, 2017

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

Re: Modification of API 47-09502264, 02256, 02257

Dear Mr. Smith,

Enclosed are forms WW6B, schematic, Mylar plat, and WW6A1 for the above API number. EQT would like to lengthen the lateral.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor-WV

Enc.

REGEIVED
Office of Oil and Gas

APR 24 2017

WV Department of Environmental Protection