

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 514465

47-095-02341-00-00

Changing conductor easing size, shifting and lengthening 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.

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

James A. Martin

Chief

Operator's Well Number: 514465 Farm Name: WELLS, VIVIAN J

U.S. WELL NUMBER: 47-095-02341-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: 08/23/2017

Promoting a healthy environment.

API NO. 47-095	- 02341	MOD	
OPERATOR W			
Well Pad Nar	ne: SHR60)	_

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

1) Well Operator: EQT Production Company	y 306686	Tyler	McElroy	Shirley
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: 514465	Well Pa	d Name: SH	R60	·
3) Farm Name/Surface Owner: Vivian J. Wells	et al Public Roa	nd Access: 6	0/2	
4) Elevation, current ground: 1011'	Elevation, proposed	post-constru	ction: 1011'	
5) Well Type (a) Gas X Oil Other	Und	erground Sto	rage	
(b)If Gas Shallow X	Deep			
Horizontal X 6) Existing Pad: Yes or No Yes			DMH 8,	117/17
7) Proposed Target Formation(s), Depth(s), Anti Marcellus, 6596', 52', 2747 PSI	icipated Thickness a	- ınd Expected	Pressure(s):	
8) Proposed Total Vertical Depth: 6596'				
9) Formation at Total Vertical Depth: Marcellu	ıs			
10) Proposed Total Measured Depth: 18942				
11) Proposed Horizontal Leg Length: 11196			_	
12) Approximate Fresh Water Strata Depths:	83, 133, 570, 90)6'		
13) Method to Determine Fresh Water Depths:	From offset wells			
14) Approximate Saltwater Depths: 1198, 186	5'			
15) Approximate Coal Seam Depths: 19, 420,	686, 875, 1315'			
16) Approximate Depth to Possible Void (coal n	nine, karst, other):	None report	ed	
17) Does Proposed well location contain coal se	ams			Office of Oil and Gas
directly overlying or adjacent to an active mine?		r	۸۰ <u>×</u>	AUG 2 2 2017
(a) If Yes, provide Mine Info: Name:				WV Department of
Depth:				E: William III
Seam:				
Owner:				

API NO. 47- 095 - 02341 MOD
OPERATOR WELL NO. 514465
Well Pad Name: SHR60

18)

CASING AND TUBING PROGRAM

TYPE	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	26	New	A-500	85.6	60	60	73 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	992	992	835 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2777	2777	1084 ft^3 / CTS
Production	5 1/2	New	P-110	20	18942	18942	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							

DMH 8/17/17

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	26	30	.312	1378	26	Class A	
Fresh Water	13 3/8	17 1/2	.38	2700	2160	See Variance	
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	See Variance	1.19
Production	5 1/2	8 1/2	.361	12640	10112	Class A/H	1.123/2.098
Tubing	2 3/8	NA	.19	7700			
Liners			**************************************				

PACKERS

Kind:			
Sizes:			
Depths Set:		Office	ECEIVED of Oil and Gas
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WV Department of Environmental Production

WW-6B	
(10/14)	

API NO. 47- 095 - 02341 Men

OPERATOR WELL NO. 514465

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 3,614'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

DMH 8/17/17

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 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

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

Conductor Class A no additives
Surface (Type 1 Cement). 0-3% Calcium Chloride Used to speed the setting of cement sturries
Intermediate (Type 1 Cement): 0-3% Calcium Chloride Used to speed the setting of cement sturries.

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

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 surface.

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

*Note: Attach additional sheets as needed.

Well 514465(SHR60H6) **EQT Production** Shirley Quad Tyler County, WV Note: Diagram is not to scale Top Base TVD TVD **Formations** Conductor 60 Base Fresh Water 906 Surface Casing 992 Maxton 1534 - 1587 **Big Lime** 1829 - 2111 Base Red Rock 1315 Weir 2251 - 2317 Gantz 2368 - 2415 Fifty foot 2461 - 1496

157 Azimuth 13457 Vertical Section

Casing and Cementing Deepest Fresh Water: 906' Туре Conductor Surface Intermediate Production Hole Size, In. 30 17 1/2 12 3/8 8 1/2 Casing Size, OD In. 26 13 3/8 9 5/8 5 1/2 Casing Wall Thickness, In. 0.312 0.380 0.395 0.361 Depth, MD 60' 992 2,777 18,942 Weight 85.6# 54.5# 40# 20# Grade A-500 J-55 A-500 P-110 New or Used New New New New Burst (psi) 1378 2,700 3,950 12,640 Cement Class A A / Type 1 A/Type 1 A/H Cement Yield 1.18 1.19 1.19 1.123 / 2.098 Top of Cement (Planned) Surface Surface Surface 500' above top Producing Zone Method Displacement Displacement Displacement Displacement Est. Volume (cu ft) 835 73 1,084 3,690 Thirty foot 2595 - 2636 Calcium Carbonate, Fluid Loss, Gordon 2686 - 2700 Extender, Dispersent, Viscosifier, Calcium Intermediate Casing 2777 Possible Additives N/A Calcium Chloride Detoamer, POZ, Bonding Agent, Chloride Bayard 3007 - 3067 Retarder, Anti-Settling/Suspension Agent Warren 3339 - 3413 Speechley 3433 - 3551 Balltown A 3855 - 3925 Riley 4548 - 4585 Benson 4965 - 5002 Alexander 5222 - 5294 KOP@ 3,614 Sonvea 6212 - 6381 Middlesex 6381 - 6425 6425 - 6501 Genesee Geneseo 6501 - 6530 Tully 6530 - 6554 Hamilton 6554 - 6571 Marcellus 6571 - 6623 18942 MD Production Casing CONTRACTOR CONTRACTOR OF THE PROPERTY OF THE P Onondaga 6623 Land curve @ 6,596' TVD

Proposed Well Work:

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

Drill the vertical to an approximate depth of 3614'.

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

Est. TD@

6,596

TVD 18,942' MD

11,196' Lateral

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7,746' MD

WW-6A1 (5/13)

Operator's	Well	No.	514465	
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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 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

Office of Oil and Gas

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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: Victoria J Roark

Its: Regional Land Supervisor

Page 1 of ____

WW-6A1 attachment

514465

					_	
Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page		
× <u>126101</u>	George Birklein, et al (current roaylty 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 Resro	•		DB433/777		
	Equitrans, L.P.	EQT Production Company		DB396/640		
	Equitrans, L.P.	EQT Production Company		OG420/10	Tyler Co.	
05-18-11	Susan L Spencer	EQT Production Company		513/207	Subsurface Attached	
¾ <u>125951</u>	Mona R. Cumberledge, et al. (current royalty owner)		**			
	Jacob A. Cumberledge, et ux (original lessor)	Equitable Gas Co.		DB202/294		
	Equitable Gas Co.	Equitrans, Inc.		DB274/471		
	Equitrans, Inc./Equitable Gas Company/Equitable Resou	r Equitrans, L.P.		DB433/777		
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler Co.	
<u> 126145</u>	Hester B. Britton, et al. (current royalty owner)		**			
	A.H. Cumberledge, et al	Equitable Gas Company		192/21		
	Equitable Gas Company	Equitrans, Inc.		DB274/471		
	Equitrans, Inc.	Equitrans, L.P.		DB433/777		
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler Co.	
× <u>126154</u>	Casey Ann Jones, et al. (current royalty owner)		**			
	George H. Jones, et al (original lessor)	Equitable Gas Company		192/130		
	Equitable Gas Company	Equitrans, Inc.		DB274/471		
	Equitrans, Inc.	Equitrans, L.P.		DB433/777		
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler Co.	
∡ <u>126151</u>	Dorothy H. Bode, et al (current royalty owner)					
	Mollie Scott, et al (original lessor)	Equitable Gas Company		191/492		
	Equitable Gas Company	Equitrans, Inc.		DB274/471		
	Equitrans, Inc.	Equitrans, L.P.		DB433/777		
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler Co.	
አ <u> 126153</u>	Jeffrey T. Heflin, et al (current royalty owner)		••			
	John W. Ash, et al (original lessor)	Equitable Gas Co.		DB192/80		
	Equitable Gas Co.	Equitrans, Inc.		DB274/471		DEGEN
	Equitrans, Inc.	Equitrans, L.P.		DB433/777		RECEIVED Office of Circand Gas
	Equitrans, L.P.	EQT Production Company		DB396/640	Tyler Co.	
3010E4E8	Kimberly Wilcox (current royalty owner)		••			AUG 2 2 2017
<u> №105456</u>		J L Newman		LB69/42		_ WV Depair dent of
	Olive I. Stewart, et vir (original lessor)		alaia.			Environmenta: From ction
	J. L. Newman	The Philadelphia Company of West Virginia Gos Comp	=	OG455/390		
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Comp	Jany	DB101/36		
	Pittsburgh and West Virginia Gas Company	Equitable Gas Co.		132/414 DB074/471		
	Equitable Gas Co. Equitrans, Inc.	Equitrans, Inc.		DB274/471		
	Equitans, Inc. Equitrans, L.P.	Equitrans, L.P. EQT Production Company		DB433/777 DB396/640	Tyler Co.	
	Equitatio, Eli.	EGT Floudision Company		JJ330/040	, yioi 00.	

DB274/471

DB433/777

DB396/640

Tyler Co.

√ 126146	Dulcie Frances Bonnell, et al (current royalty owner)
<u> </u>	Daiole I falloco Dollifoli, et al jourielle l'oyalty office!

Blanche Cumberledge, et al (original lessor)	Equitable Gas Company	191/509	
Equitable Gas Company	Equitrans, Inc.	DB274/471	
Equitrans, Inc.	Equitrans, L.P.	DB433/777	
Equitrans, L.P.	EQT Production Company	DB396/640	Tyler Co.

Equitrans, Inc.

Equitrans, L.P.

EQT Production Company

7 126239 Paul Tallman, et al (current royalty owner)

Equitable Gas Company

Equitrans, Inc.

Equitrans, L.P.

Erma M. Pitts, et al (original lessor)	Equitable Gas Company	98/357	
Equitable Gas Company	Equitrans, Inc.	DB274/471	•
Equitrans, Inc.	Equitrans, L.P.	DB433/777	
Equitrans, L.P.	EQT Production Company	DB396/640	Tyler Co.

★ 126368 Robin A. Smtih, et al (current royalty owner)

Wilbur F. Robinson and Virginia Lee Robinson (original le Stonewall Gas Company		152/79	
Stonewall Gas Company/Dominion Appalachian Develop 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	Noble Energy, Inc (50%)	260/39	
CNX Gas Co., LLC/Noble Energy, Inc	Antero Resources Corporation	317/379	
Antero Resources Corporation	EQT Production Company	568/760	Doddridge

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

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WV Department of Environmental Francision

Teresse & Hamilton TYLER County 01:03:47 PM

Instrument No 116403 Date Recorded 12/14/2015 locuser! Type SQL fages Recorded 2

MEMORANDUM OF Book-Page 513-207 SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT (Ing Fee \$5.00 Additional

County Clerk please also index under the following: [Susan L. Spencer]

1. NAME AND ADDRESS OF GRANTOR:

Susan L. Spencer HC 74 Box 98 Alma, WV 26320

2. NAME AND ADDRESS OF GRANTEE:

EQT Production Company 625 Liberty Avenue **Suite 1700** Pittsburgh, PA 15222

- 3. SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT REFERENCE: A SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT ("Agreement") dated the 29th day of October, 2015, was entered into for good and valuable consideration by and between Susan L. Spencer, a married woman dealing in her sole and separate property ("Grantor", whether one or more) and EQT Production Company ("Grantee"). Upon completion of any wellbore within the subsurface area underlying the Property (as defined in Section 4), this subsurface easement in the area of the wellbore and the one hundred (100') feet on each side of the wellbore that parallels it shall become an exclusive right of way and easement in that area. The final wellbore locations are as described in a final, as-built map(s) to be filed as a part of an affidavit in the aforesaid Clerk's Office following the completion of the following well(s) located on Grantee's SHR60 and SHR96 well pads. If an as-built map is not available for a wellbore within the subsurface area underlying the Property, any third-party with the right to operate within such area may contact Grantee's land department for a copy of such as-built map. Grantee shall provide notice of additional wellbores located within the subsurface area underlying the Property by filing an amendment, affidavit or other appropriate document.
- 4. <u>DESCRIPTION OF PREMISES</u>: That certain tract or parcel of land containing 132 acres, more or less, located in Tyler County, West Virginia, being the same lands conveyed to Grantor by Deed dated the 21st day of October, 2011, of record in the Office of the Clerk of the County Commission of Tyler County, West Virginia in Deed Book 388, at Page 164 ("the Property").
- 5. TERM: The Agreement shall run with the land and shall remain in full force and effect until released and relinquished by the Grantee back to the Grantor, in writing.

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(REMAINDER OF PAGE LEFT BLANK INTENTIONALLY)

V/V Department of Environmental Protection IN WITNESS WHEREOF, the parties have signed their names hereto as of the date of the Agreement referenced in Section 3 above.

GRANTOR:

GRANTEE:

EQT Production Company

By: John W. Damato

Its: Aftorney in fact

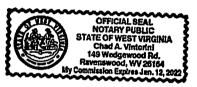
STATE OF WEST VIRGINIA;

COUNTY OF TYLER:

I, Chad A. Vintorini, a Notary Public, in and for said State and County, do hereby certify that Susan L. Spencer, a married woman dealing in her sole and separate property, personally known to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be her free act and deeds for uses and purposes therein set forth.

Given under my hand this 37th day of October, 2015.

My Commission expires: _____Jan. 12, 2022



Notary Public

STATE OF WEST VIRGINIA;

COUNTY OF HARRISON:

i, line Maxwell, a Notary Public, in and for said State and County, do hereby certify that John W. Damato, personally known to be the same person whose name is subscribed to the foregoing instrument and the Attorney in fact of EQT Production Company, appeared before me this day in person in the State and County aforesaid, and acknowledged and delivered the said instrument to be his free act and deed for uses and purposes therein set forth on behalf of said company.

Given under my hand this 4th day of Your mer, 2015.

My Commission expires: Quant 29, 2019.

Notary Public

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This instrument was prepared by EQT Production Company, 625 Liberty Avenue, Pinsburgh, PA 15222.



Where energy meets innovation:"

42095-02341

EQT Production Company 2400 Zenith Ridge Rd. Suite 200 Canonsburg, PA 15317 www.eqt.com MOD

Todd Klaner Manager, Permitting tklaner@eqt.com

Via E-Mail

August 16, 2017

WV DEP Reviewer

RE: EQT Production Company

PAD ID – SHR60 Well# - 514465 Tyler County

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for non-productive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tract 5.18.11 shown on the well plat.

EQT Production understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

EQT Production agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of EQT Production's claimed rights.

Regards,

Todd Klaner

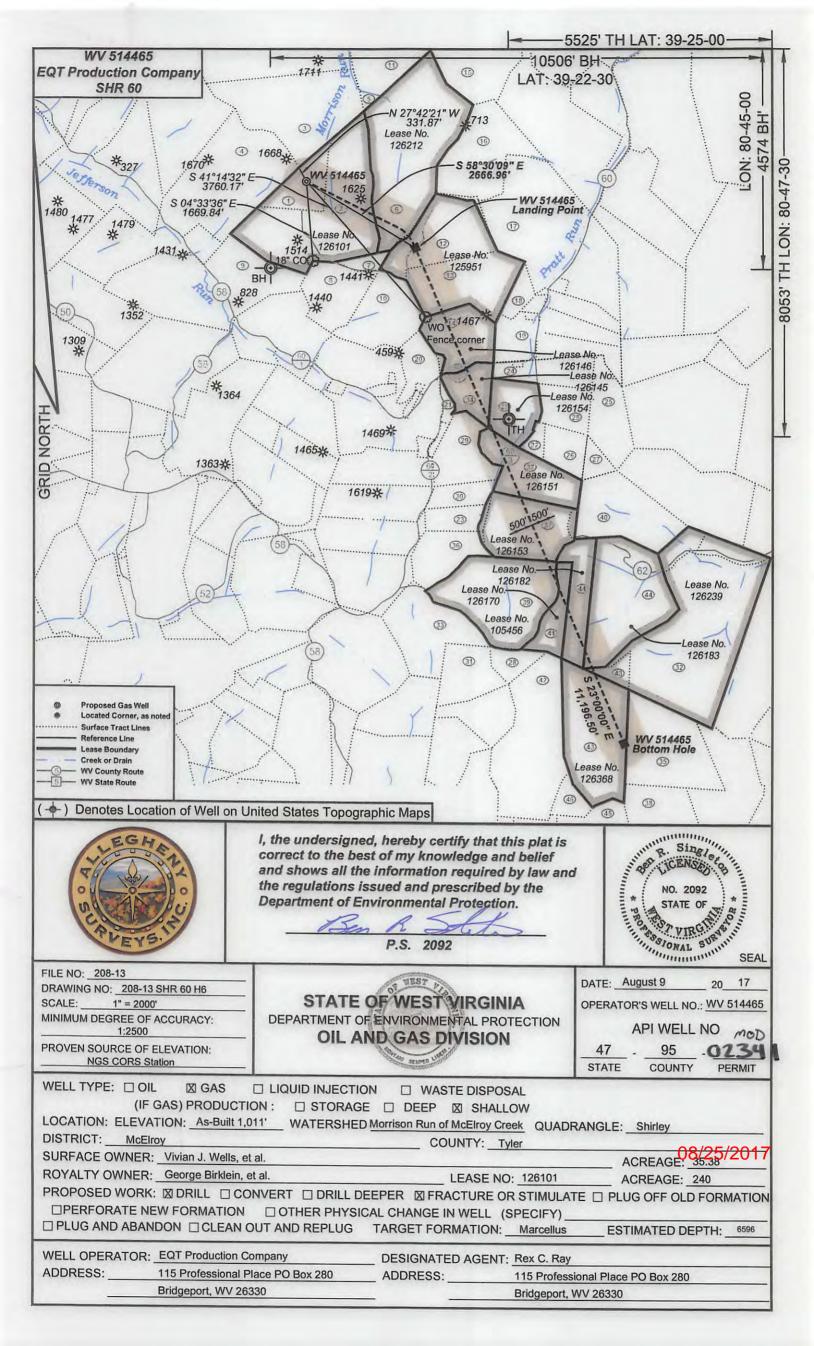
Manager, Permitting

EQT Production Company

Office of Oil : Gas

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WV 514465 Well References SHR 60 **EQT Production Company** 5/8" Rebar SHR 60 H2, 5144610 H2, 5144610 H4, 5144630 H6, 5144630 H6, 5144650 H7, 514464 H8, 5154340 H10, 5154360 H12, 5154380 found Tract I.D. Tax Map No. Parcel No. County Di 5/8" Rebar set Surface Tract Owne Tyler McElroy McElroy 13 Tyler od Estate, et al. 104.73 McElroy McElroy Tyler 18 00.00 Tyler Patricia A. Keys, et al. 102.31 McElroy 18 Tyler 2.92 Tyler Susan Spencer 132.00 18 15 Tyler McElroy Donald E. Bible Sr 35.50 McElroy 18 23 Tyler 111.75 McElroy SHR 60 H6 Allen Dale Fornash, et al 43.00 360.00 54.81 11 15 32 Tyler McElroy Betty June Weese WV 514465 1" = 200 12 Tyle McEl 14 49.87 35.00 18 Tyler Terry J. Cumberledge, et al Notes: WV 514465 coordinates are NAD 27 N: 328,507.21 E: 1,629,439.17 McElroy 14 19 Tyler Susan L. Spe 53.00 McElroy NAD 27 N. 32,507.21 E., 1,623,439.17 NAD 27 Lat: 39.394522 Long: -80.811234 NAD 83 UTM N: 4,360,584.58 E: 516,269.25 WV 514465 Landing Point coordinates are NAD 27 N: 327,113.83 E: 1,631,713.19 16 49 Tyler es Edward Cumbe 57.50 McElroy 17 ild L. Cumberledg 123.15 Edith J. Pratt 18 70.1 Tyler McElroy 8.77 19 NAD 27 N: 327,113.83 E: 1,631,713.19 NAD 27 Lat: 39.390787 Long: -80.803117 NAD 83 UTM N: 4,360,171.66 E: 516,969.11 72 McElr Tyle 18.09 Richard E. Hansen /illiam R. Doll Jr., et al. McElroy 20.2 Tyler 19.96 21 McElr 20.1 Tyle NAD 27 N: 316,807.40 E: 1,636,088.02 NAD 27 N: 316,807.40 E: 1,636,088.02 NAD 27 Lat: 39.362666 Long: -80.787117 NAD 83 UTM N: 4,357,054.05 E: 518,354.30 3.06 22 1.1 McElroy Tyler Nick A. & Anthony W. De 6.83 McElroy rd E. & Barbara A Roger L. Pratt 23 19 McElroy 24 Tyler 24.19 West Virginia Coordinate system of 1927 (North Zone) based upon Differential GPS Measurements. Plat orientation, corner and well ties are based upon the grid north meridian. Well location references are based upon the grid north meridian. McElroy 25 78 Tyler 43.81 1.2 James B. Scott 40,00 McElroy June Pratt R. & Elizabeth A. Be 27 Tyler 7.00 McElroy 28 12.00 30.00 29 22 Tyler McElroy James B. Scott utm coordinates are NAD83, Zone 17, Meters. McElroy 30 18 Tyler 31 McElroy 16.0 Tyler 29.00 1711 McElroy 32 13 Tyler Warren C. Pu 33 McElroy 33 Bruce W. Boland 52.46 McElroy 34 Tyler 19 Jason J. Boggs 66.87 36 21 Tyles McElroy James B. Scott 21 30.00 McElroy 37 19 Berdina Rose, et al 55.00 88.65 86.75 38 West Uni Susan Walker, et al. Tyle 1668 39 18 1670 22 McElroy ne Wickman, et al. 71.62 McElroy 41 18.1 Tyle 18,91 id R. & Elizabeth A. Bev 42 18 West Union 125.00 West Union James M. Petrovich, et al. McElroy Paul Dean Steinman Jr. & Marc J. St 1625 43 WV 514465 44 14 126,00 1514 1441 Scale 1" = 2000" Owner Mona R. Cumberledge, et al. Hester B. Britton, et al. Casey Ann Jones, et al. Dorothy H. Bode, et al. Jeffrey T. Heflin, et al. Kimberly Wilcox Mary Ann Ketelson Robert J. Nichols, et al. Lease No. 125951 Acres 225 126145 126154 126151 30 55 96 15 38 126153 105456 126170 Proposed Gas Well Located Corner, as noted **Surface Tract Lines** Robert J. Nichols, et al. Robert J. Nichols, et al. Dlucie Frances Bonnell, et al. 126182 Reference Line 126183 126146 89 35 ub Surface Easements Creek or Drain 234 126239 Paul Tallman, et a WV County Route WV State Route Owner Susan L. Spencer Parcel No. Acres 05-18-11 132 126368 Robin A. Smith, et al. -5 NO. 2092 STATE OF VIRGINIAN SE 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 Department of Environmental Protection. P.S. 2092 SEAL FILE NO: 208-13 WEST D DATE: August 9 17 DRAWING NO: _208-13 SHR 60 H6 STATE OF WEST VIRGINIA OPERATOR'S WELL NO .: WV 514465 SCALE: 1" = 2000" DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO MOD 1:2500 OIL AND GAS DIVISION 47 PROVEN SOURCE OF ELEVATION: 95 0234 NGS CORS Station STATE COUNTY PERMIT 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 DISTRICT: McElroy COUNTY: Tyler ACREAGE: 8/25/2017 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) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6596 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330 Bridgeport, WV 26330