

#### 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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

# Thursday January 27, 2022 PERMIT MODIFICATION APPROVAL New Drill / Modification/Lateral Extension

EQT PRODUCTION COMPANY 625 LIBERTY AVE. SUITE 1700 PITTSBURGH, PA 15222

Re: Permit Modification Approval for BIG464 113H

47-103-03437

Extending 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

James A. Martin

Chief

Operator's Well Number: BIG464 113H

Farm Name: EQT PRODUCTION COMPANY

U.S. WELL NUMBER: 47-103-03437

New Drill Modification/Lateral Extension

Date Modification Issued: 01/27/2022

Promoting a healthy environment.

API NO. 47- 103	_ 03437		
<b>OPERATOR W</b>	ELL NO.	113H	-
Well Pad Nat	me: BIG46	4	-

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

1) Well Operator: EQT Produc	ction Company	306686	Wetzel -	Grant <	Big Run
ACTION TO THE OWNER OF THE OWNER		Operator ID	County	District	Quadrangle
2) Operator's Well Number: 11:	3H ′	Well Pa	nd Name: BIG4	64	
3) Farm Name/Surface Owner:	EQT Production Co	ompany Public Ro	ad Access: CR	1	
4) Elevation, current ground:	1246.8' (built) E	levation, proposed	l post-constructi	ion: 1246.8	3' (built)
5) Well Type (a) Gas X	Oil	Une	derground Stora	ge	
Other					RECEIVED Office of Oil and Ga
***	llow X izontal X	Deep			JAN 2 4 2022
6) Existing Pad: Yes or No Yes					WV Department of
7) Proposed Target Formation(s)	and the second of the	cinated Thickness	— and Expected P	ressure(s):	Environmental Protect
Marcellus, 7,394', 51', 2,620 PS		iparea interness	una Emperica i		
8) Proposed Total Vertical Depth	n: 7,394' /				
9) Formation at Total Vertical D		S/			
10) Proposed Total Measured De	epth: 25717'	1			
11) Proposed Horizontal Leg Le	ngth: 17124'	1			
12) Approximate Fresh Water St	trata Depths:	109', 184', 432			
13) Method to Determine Fresh	Water Depths:	Offset Wells - 47	-103-30593, 47	7-103-3091	0 /
14) Approximate Saltwater Dept	ths: 1724', 1848	3' /			
15) Approximate Coal Seam De	pths: 556'-559',	795'-797', 897'-	899', 912'-919'	/	
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	N/A		
17) Does Proposed well location directly overlying or adjacent to		Yes	No	, <u>X</u>	
(a) If Yes, provide Mine Info:	Name:				
	Depth:				
	Seam:				
	Owner:				

API	NO.	47-	103	-	03437

OPERATOR WELL NO. 113H

Well Pad Name: BIG464

18)

# CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (1b/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1019	1019 /	1000 ft^3 / CTS
Coal			19 - 1				
Intermediate	9 5/8	New	J-55	36	2441	2441	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	25717	25717 🗸	500' above intermediate casing
Tubing			T T				
Liners			1				

Bryan Harris 12/28/21/

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	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A / Type 1	1.13 - 1.19
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A / Type 1	1.13 - 1.19
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.10
Tubing							7
Liners							

## **PACKERS**

Kind:		
Sizes:		
Depths Set:		

WW-6B	
(10/14)	

API NO. 47- 103 - 03437

OPERATOR WELL NO. 113H

Well Pad Name: BIG464

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a horizontal well in the Marcellus Formation. Drill the vertical, 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 10,000 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 200,000-600,000 pounds of proppant per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A Site Built
- 22) Area to be disturbed for well pad only, less access road (acres): N/A Site Built
- 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:

Conductor: Class A no additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder,

Anti-Settling/Suspension Agent

### 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: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

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

**EQT Production** Wellbore Diagram Wetzel County: BIG 464 113H Well: State: West Virginia Pad: **BIG 464** Elevation: 1246' GL 1259' KB Conductor @ 40' 26", 85.6#, A-500, cement to surface w/ Class A Surface 1,019' @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/Type I Intermediate @ 2,441' 9-5/8", 36#, J-55, cement to surface w/ Class A/Type I @ 25,717' MD / 7,394' TVD **Production** 5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H Formation: Marcellus NOT TO SCALE 02/11/2022

#### WEST VIRGINIA GEOLOGICAL PROGNOSIS

Finalized for Top Hole

Horizontal Well BIG464 S-000124

**Drilling Objectives:** 

Marcellus

County: Quad:

Wetzel Big Run

TBD

Elevation:

1259 KB

1246 GL

Recommended Azimuth

TBD Degrees

Recommended LP to TD: TBD

Proposed Logging Suite:

Pilot Logging Not needed

ESTIMATED FORMATION TOPS	Fr	om pilots on BIG57	and BIG182			
Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	432		FW @ 109,184,252,278,432,	69	73
Waynesburg Coal	556	559 Coa	al		76	80
Coal	795	797 Coa	al	No known past/present/and or future mining within the area	96	114
Sewickley Coal	897	899 Coa	al		125	132 Base of F
Pittsburgh Coal	912	919 Coa	al			
Maxton	1792	1971 San	dstone	SW @ 1724,1848		
Big Lime	2234	2310 Lin	nestone			
Big Injun	2322	2391 San	ndstone			
Int. esg pt	2441					
Weir	2520	2670 San	ndstone			
Top Devonian	2735					
Gantz	2735	2771 Silt	ty Sand			
Fifty foot	2876	2932 Silt	ly Sand	Storage is NOT of concern		
Thirty foot	2971	2998 Silt	ty Sand			
Gordon	3027	3072 Silt	ty Sand			
Forth Sand	3097	3110 Silt	y Sand	Base of Offset Well Perforations at 3129' TVD		
Fifth Sand	3169	3188 Silt	ry Sand			
Bayard	3222	3240 Silt	ry Sand			
Warren	3645	3669 Silt	ry Sand			
Speechley	3765	3813 Silt	ry Sand			
Balltown A	4123	4138 Silt	ty Sand			
Riley	4608	4650 Silt	ty Sand			
Benson	5237	5286 Silt	ty Sand			
Alexander	5651	5718 Silt	ty Sand			
Elks	5718	6917 Gra	y Shales and Silts			
Sonyea	6917	7080 Gra	ay shale			
Middlesex	7080	7136 Sha	ile		146	
Genesee	7136	7223 Gra	ay shale interbedded			
Genesco	7223	7255 Bla				
Tully	7255	7280 Lin	nestone			
Hamilton	7280	7378 Gra	ay shale with some			
Marcellus	7378	7429 Bla			1	
Purcell	7393	7396 Lin	nestone			
-Lateral Zone	7394					
Cherry Valley	7409	7413 Lin	nestone			
Onondaga	7429	Lin	nestone			

Target Thickness 51 feet

Comments:
Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

RECOMMENDED CASI	NG POINTS					
Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH:		1019	Beneath Pittsburgh Coal
Intermediate 1:	CSG OD	9 5/8	CSG DEPTH:		2441	Beneath theBig Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH:	@ TD		

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

County: Wetzel

January 21, 2022

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#### **Purpose**

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the BIG464 well pad: 1H, 3H, 5H, 7H, 9H, 11H & 113H.

Due to the requirements under 3SCSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

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

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

#### 1. Communications with Well Operators

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

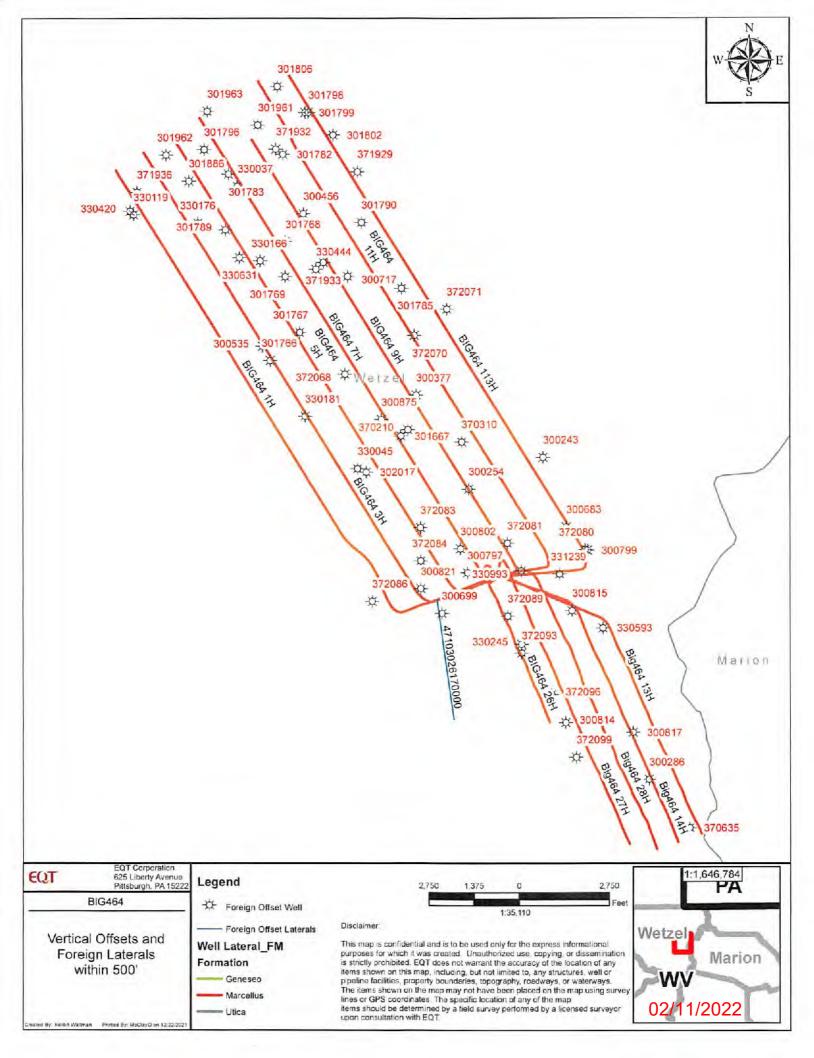
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

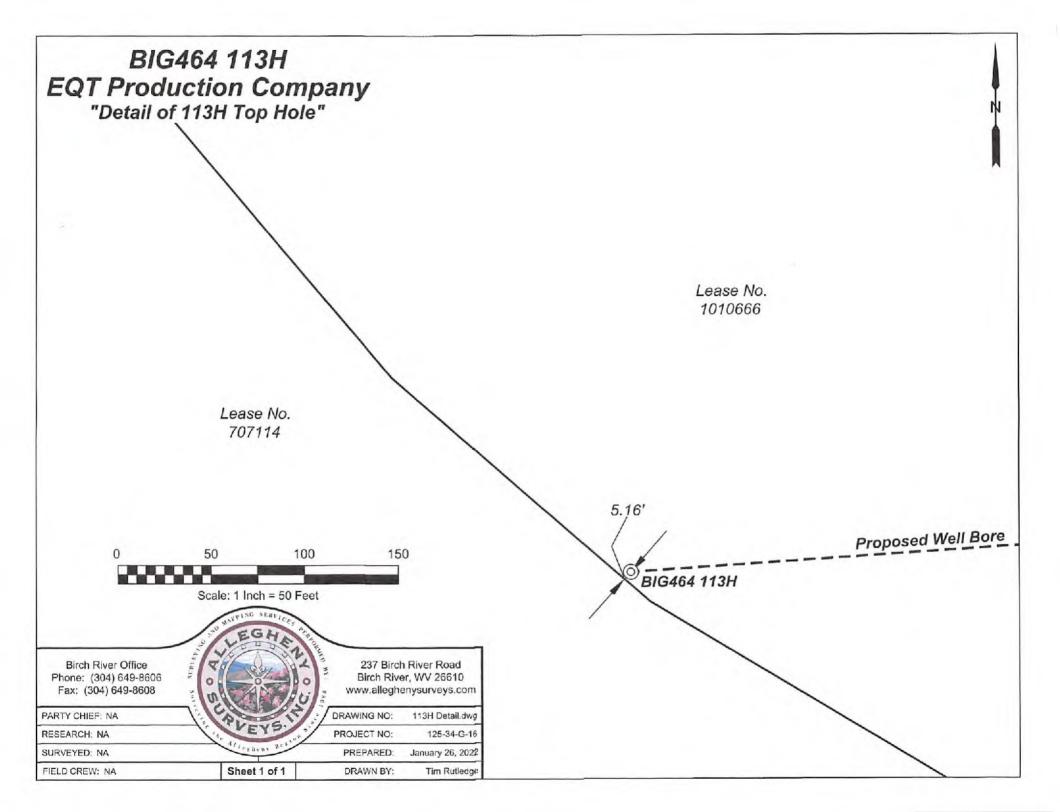
- Inspect their surface equipment prior to fracturing to establish integrity and establish pre frac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- Inspect or install master valves or other necessary equipment for wellhead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

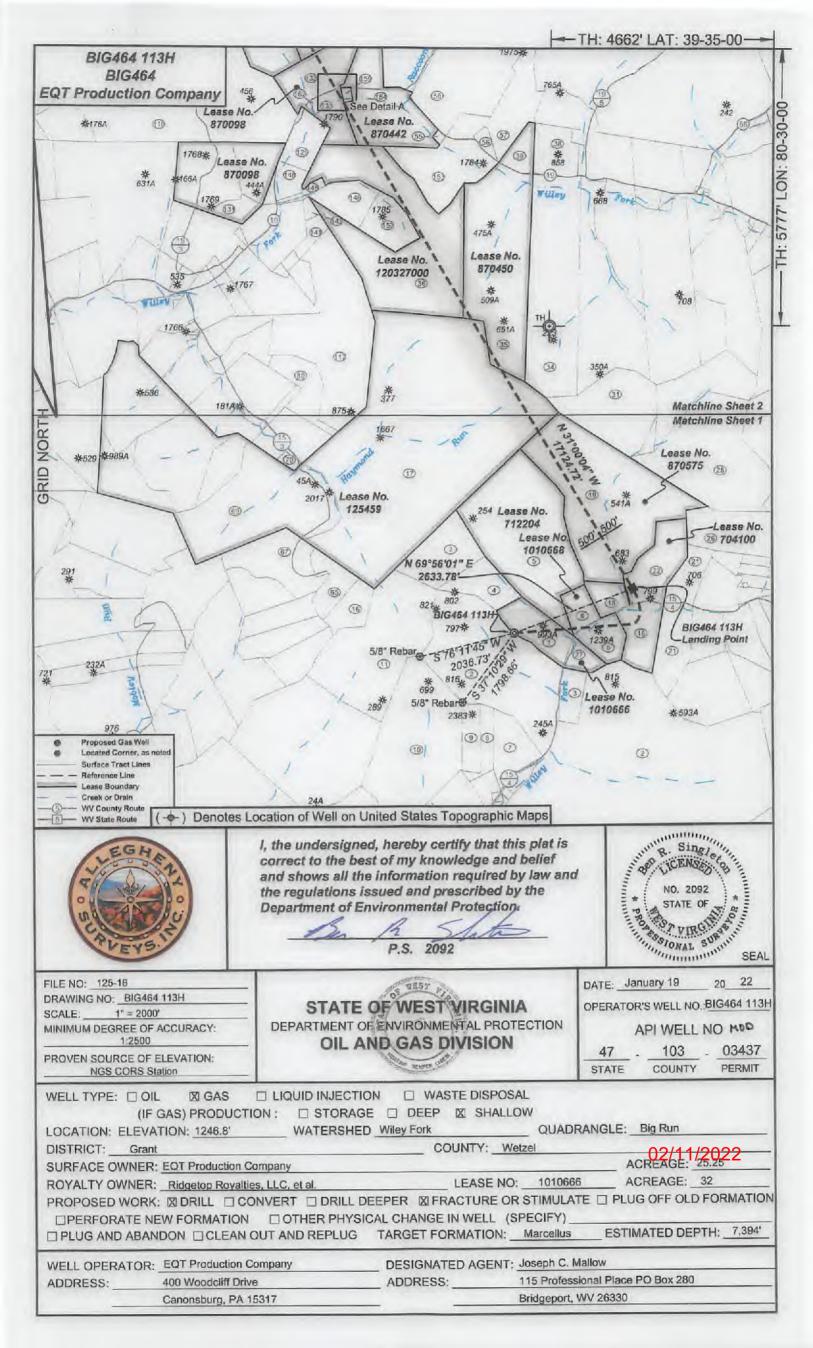
#### 2. Reporting

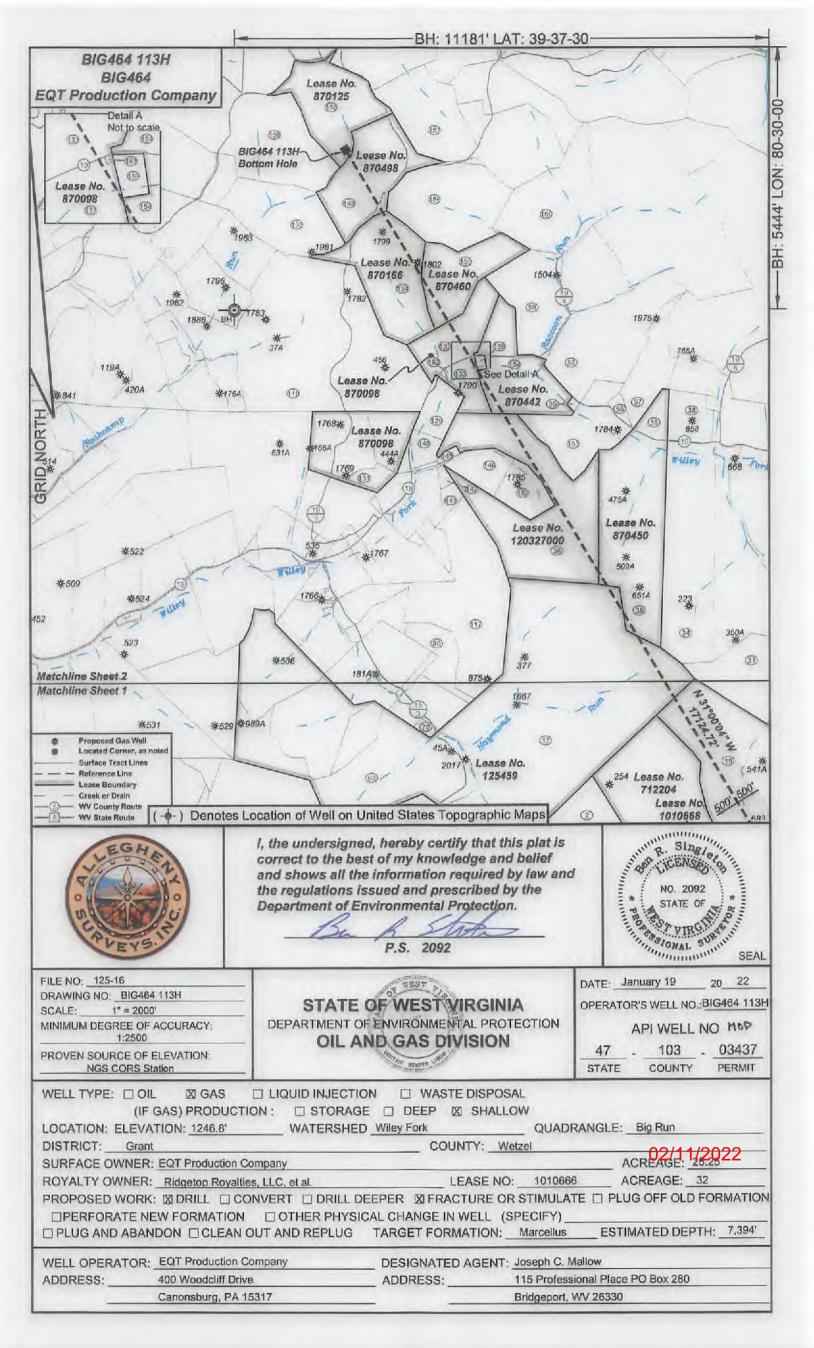
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.



t/M/I	ACT_STATUS	CURR OPER	FNL CLASS	INIT CLASS	LATITUDE LONGITUDE OPER_NAME	DATUM EL	EVATION TO	T_DEPTH TVI	•
372080	Completed Wells	CARNEGIE NATURAL GAS CORP	UNCLASSIFIED	UNCLASSIFIED	39.56969000 -80.50730600 CARNEGIE NATURAL GAS CORP	NAD27	0.00		0.00
300817	Completed Wells	EQT PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.55445100 -80.50224800 CARNEGIE NATURAL GAS CORP	NAD27	0.00		0.00
371936	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.59960100 -80.55553000 HOPE NATURAL GAS	NAD27	0.00		0.00
300821	Completed Wells	CARNEGIE NATURAL GAS CORP	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.56649700 -80.52510300 CARNEGIE NATURAL GAS CORP	NAD27	0.00		0.00
300875	Completed Wells	DIVERSIFIED PRODUCTION LLC	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.58057600 -80.52922500 PHILADELPHIA OIL	NAD27	0.00		0.00
301667		ANIA RESOURCES	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.57919010 -80.52717940	NAD27 NAD27	1066.00		0.00
372071	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.58973100 -80.52210600 UNKNOWN	NAD27	0.00		0.00
372086	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.56548100 -80.53034900 HOPE NATURAL GAS 39.60308400 -80.54046500 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
371932	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED UNCLASSIFIED	39.57868900 -80.52060700 HOPE NATURAL GAS	NAD27	0.00		0.00
370310 370635	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED UNCLASSIFIED	UNCLASSIFIED	39.54646800 -80.49617600 UNKNOWN	NAD27	0.00	0.00	0.00
370635	Completed Wells Completed Wells	UNKNOWN HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.59308100 -80.53622100 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
372068	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFED	39.58436100 -80.53315900 UNKNOWN	NAD27	0.00	0.00	0.00
372089	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.56417500 -80.51573600 UNKNOWN	NAD27	0.00	0.00	0.00
300243	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	DEVELOPMENT WELL	39.57738300 -80.51180200 HOPE NATURAL GAS	NAD27	1272.00	1018.00	0.00
372093	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.56112700 -80.51423800 UNKNOWN	NAD27	0.00	0.00	0.00
300815	Completed Wells	DIVERSIFIED PRODUCTION LLC	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.56461000 -80.50880500 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
301798	Completed Wells/WHCS	DAC CORP	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.60613920 80.53690870 DAC CORP	NAD27	1525.00	2323.00	0.00
370210	Completed Wells	HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - UNXNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.57970500 -80.52641500 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
300377	Completed Wells/WHCS	ANIA RESOURCES	DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)	DEVELOPMENT WELL	39.58260830 -80.52548590 EAGON ROBINSON OIL & GAS	NAD27	1035.00	3197.00 0.00	0.00
300683❤	Completed Wells	CONSOLIDATED GAS SUPPLY CORP	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.57157700 -80.50936700 CONSOLIDATED GAS SUPPLY CORP	NAD27 NAD27	0.00	0.00	0.00
300797	Completed Wells	EQT PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.56780300 -80.52004500 CARNEGIE NATURAL GAS CORP 39.56881900 -80.52510300 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
372084	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.56765800 -80.51011600 CONSOLIDATED GAS SUPPLY CORP	NAD27	0.00	0.00	0.00
331239◀	Completed Wells	CONSOLIDATED GAS SUPPLY CORP	UNCLASSIFIED	UNCLASSIFIED UNCLASSIFIED	39.57027100 -80.51573600 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
372081 330119	Completed Wells	HOPE NATURAL GAS CARNEGIE NATURAL GAS CORP	UNCLASSIFIED PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.59771400 -80.55590400 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
330119 371929	Completed Wells Completed Wells	HOPE NATURAL GAS CURP	UNCLASSIFIED	UNCLASSIFIED	39.60119700 -80.53166000 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
372083	Completed Wells	UNKNOWN	UNCLASSITED	UNCLASSIFIED	39.57157700 -80.52510300 UNKNOWN	NAD27	0.00	0.00	0.00
371933	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39,59365000 -80.53540700 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
300814	Completed Wells	EQUITABLE PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.55532200 -80.50955400 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
372070	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.58755400 -80.52566500 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
300286	Completed Wells	UNKNOWN	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55053200 -80.50056200 UNKNOWN	NAD27	1171.00	3066.00	0.00
301766	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEEPER POOL WILDCAT	39.58552970 -80.54121730 DAC CORP	NAD27	871.00	2302.00	0.00
301961	Completed Wells/WHCS	XTO ENERGY INC	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39.60512390 -80.54241940 EXCEL ENERGY INC	NAD27	1380.00	3696.00	0.00
301789	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59641480 -80.54597870 DAC CORP	NAD27	1420.00 1356.00	3584.00 3294.00	0.00
330631	Completed Wells	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59409700 80.54447900 HOPE NATURAL GAS	NAD27 NAD27	1336.00	3154.00	0.00
300699	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.56446500 -80.52285500 CONSOLIDATED GAS SUPPLY CORP 39.60265680 -80.53971940 DAC CORP	NAD27	1424.00	3821.00	0.00
301782		DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL DEVELOPMENT WELL	39.56963390 -80.50705510 CARNEGIE NATURAL GAS CORP	NAD27	1090.00	3086.00	0.00
300799 <del></del> 330176	Completed Wells Completed Wells	DIVERSIFIED PRODUCTION LLC PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59698800 -80.54897300 PITTSBURGH & W VA GAS	NAD27	1078.00	3135.00	0.00
330176	Completed Wells	DIVERSISED PRODUCTION IIC	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59772600 -80.53753500 UNKNOWN	NAD27	1295.00	2505.00	0.00
301806		DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60831680 -80.54028070 DAC CORP	NAD27	1209.00	3365.00	0.00
300699	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.56446500 -80.52285500 CONSOLIDATED GAS SUPPLY CORP	NAD27	0.00	1747.00	0.00
301767	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEEPER POOL WILDCAT	39.58785160 -80.53803360 DAC CORP	NAD27	868.00	3264.00	0.00
330593	Completed Wells	CARNEGIE NATURAL GAS CORP	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.56315900 80.50543300 CARNEGIE NATURAL GAS CORP	NAD27	1527.00	1887.00	0.00
301886		XTO ENERGY INC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60047900 -80.54991380 EXCEL ENERGY INC	NAD27	981.00	3310.00	0.00
330245	Completed Wells	CARNEGIE NATURAL GAS CORP	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.56185300 -80.51423800 CARNEGIE NATURAL GAS CORP	NAD27	1040.00	2908.00	0.00
330181	Completed Welh	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.58086600 -80.53746800 PITTSBURGH & W VA GAS	NAD27 NAD27	906.00 1224.00	2936.00 3350.00	0.00
301963		XTO ENERGY INC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60628400 -80.54785220 EXCEL ENERGY INC	NAD27 NAD27	0.00	2146.00	0.00
330045	Completed Wells	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57651200 -80.53184700 HOPE NATURAL GAS 39.56983500 -80.52079400 CARNEGIE NATURAL GAS CORP	NAD27	0.00	000	0.00
300802	Completed Wells	EQT PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS DEVELOPMENT WELL	39.59698800 -80.53128500 DAC CORP	NAD27	904.00	3126.00	0.00
301790		DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.6003600 -80.54466400 PITTSRURGH & W VA GAS	NAD27	869.00	1966.00	0.00
330037 330993	Completed Wells Completed Wells	PITTSBURGH & W VA GAS CARNEGIE NATURAL GAS CORP	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.56794900 -80.51423800 CARNEGIE NATURAL GAS CORP	NAD27	1131.00	3004.00	0.00
301796		XTO FNERGY INC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60309190 -80.54822700 EXCEL ENERGY INC	NAD27	1003.00	3337.00	0.00
330593	Completed Wells	UNKNOWN	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.56315900 -80.50543300 UNKNOWN	NAD27	1527.00	3438.00	0.00
301799		DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60613200 -80.53728000 DAC CORP	NAD27	1525.00	3629.00	0.00
301768			DEVELOPMENT WELL-GAS	NEW POOL WILDCAT	39.59539970 -80.53953300 DAC CORP	NAD27	1285.00	3679.00	0.00
300254	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57477000 -80.51985800 CARNEGIE NATURAL GAS CORP	NAD27	1464.00	3449.00	0.00
301785	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59148150 -80.52698040 DAC CORP	NAD27	1186.00	3554.00	0.00
301802	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60425370 -80.53428680 DAC CORP	NAD27	1401.00	3594.00	0.00
301769	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	NEW POOL WILDCAT	39.59249570 -80.53953180 DAC CORP	NAD27	1326.00	3692.00 3057.00	0.00
300535	Completed Wells	EQUITABLE GAS CO	UNCLASSIFIED	UNCLASSIFIED	39,58669500 -80.54203900 EQUITABLE GAS CO 39.55764400 -80.51105300 UNXNOWN	NAD27 NAD27	1009.00	0.00	0.00
372096	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.55764400 -80.51105300 UNKNOWN 39.59801600 -80.55630300 UNKNOWN	NAD27	1310.00	3226.00	0.00
330420	Completed Wells	UNKNOWN	DEVELOPMENT WELL-OIL	DEVELOPMENT WELL	39,59801600 -80.55630300 UNKNOWN 39,59248900 -80,53278400 CONSOLIDATED GAS SUPPLY CORP	NAD27	880.00	1927.00	0.00
300717	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL DEVELOPMENT WELL	39.60265000 -80.55234980 EXCEL ENERGY INC	NAD27	1325.00	3633.00	0.00
301962		XTO ENERGY INC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57622940 -80.53091330 DYNATEC ENERGY INC	NAD27	948.00	711.00	0.00
302017 330166	Completed Wells/WHCS Completed Wells	DYNATEC ENERGY INC HOPE NATURAL GAS	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.59379500 -80.54227900 HOPE NATURAL GAS	NAD27	1012.00	2215.00	0.00
372099	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39,55241900 -80.50843000 UNKNOWN	NAD27	0.00	0.00	0.00
301783			DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60105200 -80.54560100 DAC CORP	NAD27	1376.00	3555.00	0.00
30.703									
Lateral									
UWI	ACT_STATUS	CURR_OPER	FNL_CLASS	INIT_CLASS	LATITUDE LONGITUDE OPER_NAME				D WELL_NAME WELL_NUM
47103026170000	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55563000 -80.52162000 EQT PRODUCTION CO	NAD27	941.00	10761.00 71	17.00 WV 511423 ALLEN I M WV 511423

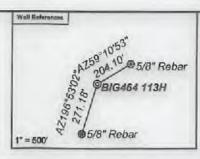






## BIG464 113H BIG464 EQT Production Company

Tract I.D.	Tax Med No.	100000	County	District	Surface Tract Owner	Acres
1	54	34	Witted.	Grant	EQT Production Company	25,25
2	20	-4	Weizel	Grant	Constel Ferest Resources Company	520.00
3	15	27	Wetrel	Grant	Beverly Lynn Barr Life Estate	10.00
4.	1.4	27	Wetzel	Grant	EDT Preduction Company	22.00
- 6	14	50	Wetral	Grant	EQT Preduction Company	126.50
6	15	15	Wetzel	Grant	Donald J. D'Lusky	25.00
7.	14	A5.	Wetzel	Grant	Goestal Forest Resources Company	11.06
n	14.	.44	Wetzei	Grant	Mabel F. Barr	11.00
9	14	437	Wetzel	Grant	Mabel F. Barr	11.01
10	14	42	Wetzel	Grant	Donald J. D'Lusky	111.00
11	14	33	Wedzel	Grant	Afine H. & Hilda S. Consway	108.00
10	14	32	Wetzel	Grant	Mary Jane Byard	13,50
17	14		Wetzel	Grant	Coastal Fernst Resources Company	332.9
18	15	ta	Wetzel	Grant	Daneld J. D'Lusky	39,50
19	15	12	Wetzel	Grant	William Bowers & Donald J. D'Eusky	147.5
21	15	29	Wetzel	Grant	Terry Philips, et al.	40.00
22	15	18; t	Wetzel	Grant	Donald J. & Jane A. DLusky	20.60
26	15	13	Wetzel	Grant	Openid W. & Diames White	40.00
27		J.C.	Wetzel	Grant	No Tax Map & Parcel Information	
25	15	7	Wetzel	Grant	Timothy E. Titus	116,00
31	15	5	Watzol	Grant	William Bowers, et al.	43.20
34	10	28	Wetzel	Grant	Coastal Forest Resources Company	107.0
35	9	39	Wetzel	Grant	Coastal Forest Resources Company	128.0
36	.9	38	Wetzel	Grant	Terry L. & Carolyn M. Fry	155.0
36	10	10	Wetzer	Grant	Michael J. & Patricia L. Barber	35.00
55	9	21.2	Wetzel	Grant	David W. & Berbara L. Anderson	1.00
50'	9	27.1	Wetzel	Grant	David C. & Susan M. Berr	3.70
5.7	9	.04	Wetzel	Grant.	Calvin N. Barr	32.02
-58	9	12	Wetzel	Grand	David C. Barr, et al.	80.26
50	9	4	Wetzel	Grant.	Gregory & Michael Dulaney	\$9.00
66	14	28	Wetzei	Grant	Mary Jane Byard	14,50
67	14	25	Wetzel	Grant	ET Blue Grass, LLC	35.88
60	14	19	Watrel	Grant	Coastal Forest Resources Company	138.0
70	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.80
80	14	5	Wetzel	Grant.	Date K. & Sherry Didentry	21,50
110	9	10	Wetzei	Grant.	William B. & Parnella Francis	233.3
117		81	Watter	Grant.	Jimbobs Quiet Mountain Retroat	114 10
129	9	82	Wetze	Grant.	William B. & Pamola S. Francik	30.50
101	9	25	Wetzel	Grant	Deborah Fronczek & John Parks	6.06
153	9	11	Vioteel	Grant	Elizabeth Amondoon, et al.	53.37
134	0	2	Wetre	Grant	Liberty Holding Company	74.50
136	4	8	Wetzel	Grant	James A. Yoha	83.00
341	0	35	Wetzel	Grant	Terry L. & Carolyn M. Fry	6.25
142	0	34	Wetze	Grant	Terry L. & Carolyn M. Fry	3.25
145	9	32.1	Wetzel	Grant.	Terry L. & Carolyn M. Fry	3.40
148	9	38	Wetrel	Grant	Terry L. & Carolyn M. Fry	15.00
148	0	26	Wetzel	Grant	Elizabeth L. Taylor, et al.	10,06
149	20	.38	Wetzel	Center	William B. Francik, Sr. & Pamela Spinoso	66,58
150	4	5	Wetzei	Grant	James Daniel Kennedy	100.00
152	9	37	Wetze	Grant	Terry L. & Carolyn M. Fry	25.00
153	9	27	Wetzer	Grant	David C. Barr, et a.	47.47
154	9	21	Wetzei	Grant	Gregory & Michael Outsney	50,00
155	9	3	Wetzel	Grant	Witiam B. Francik, Sr. & Pamela Spinoso	59,00
156	4	10	Wiitzel	Grant	William B. Franck, 5r. & Pamela Spinoso	76.78
187	20	38	Wetzel	Center	Rechel Elizabeth Wyat.	54.00
158	20	33	Wetzel	Center	Myrna L. Phelps Trust	86.00
159	9	21.1	Wintzel	Center	Louis C. & Carolyn A. Freed	1,35
160	4	41	Wetzel	Center	Liberty Holding Company	80.05
161	0	20	Wetzel	Center	Elizabeth Amundson, et al.	0.00 0.00
101	U	.20	ANDLESO.	Center	Extraordin Amundschi, et et	0.00
101			Trouble	Centre	Comment of the other	-

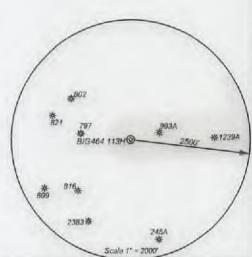


Notes:
BIG464 113H coordinates are
NAD 27 N: 390,418.37 E: 1,713,430.97
NAD 27 Lat: 39.567475 Long: -80.516536
NAD 83 UTM N: 4.379,873.98 E: 541,543.85
BIG464 113H Landing Point coordinates are
NAD 27 N: 391,322.05 E: 1,715,904.83
NAD 27 Lat: 39.570032 Long: -80.507797
NAD 83 UTM N: 4,380,161.90 E: 542,292.97
BIG464 113H Bottom Hole coordinates are

NAD 83 UTM N: 4,380,161.90 E: 542,292.97
BIG464 113H Bottom Hole coordinates are
NAD 27 N: 406,000.63 E: 1,707,084.68
NAD 27 Lat: 39.610054 Long: -80.539686
NAD 83 UTM N: 4,384,586.99 E: 539,531.30
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.
UTM coordinates are NAD83, Zone 17, Meters.

BIG 464  Lease @BIG464 ah Co. 1010566 @BIG464 ah Co.
1010858 @BIGVEN 3H CO
1010666 @BIGAGA EH 3 15 5
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HIGAGA HITT
47-103-03211 @BIG464 H26 @BIG464 H27 @BIG464 H27 @BIG464 H49 WBIG464 H49 WBIG4
BIG464 H26 @ 6816 164 111
47-103-03213 @ BIG**
BIG464 H27 @ BIG464 H14 @
47-103-03214 @ 47-103-03212
BIG464 H28® 47-103-03212
47-103-03215

Lease No.	Owner	Acres
712204	Janice E. Nolan, et al.	120
1010668	Ridgetop Royalties, LLC, et al.	25
704100	Piney Holdings, Inc., et al.	70
870575	David E. Bowyer, et al.	147.5
125459	Randel J. Hartman, et al.	693
870450	Pikewood Energy Corporation, et al.	139
120327000	OXY USA Inc., et al.	158.5
870442	Emma Joyce Dahlin Anderson, et al.	62.25
870098	Emma Joyce Dahlin Anderson, et al.	196.5
870460	Goldie Poole, et al.	50
870166	Liberty Holding Company	74
870498	William B. Francik and Pamela S. Francik, Trustees of The William B. and Pamela S. Francik Joint Revocable Living Turst, dated 2/12/2018	67
870125	Miriam K. Knowles, et al.	68





102 0 11.1 Wetzel Center Elizabeth Amundson, et al.

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



ILE NO: 125-16	- TRST
DRAWING NO: BIG464 113H	0
CALE: 1" = 2000'	STATE OF WEST
MINIMUM DEGREE OF ACCURACY: 1:2500	OIL AND GAS D
PROVEN SOURCE OF ELEVATION: NGS CORS Station	ST.

VIRGINIA NTAL PROTECTION IVISION

OPERAT	OR'S	WELL NO	0.:BI	G464 113H
	AF	WELL	N	QOM C
47		103		03437

COUNTY

22

PERMIT

January 19

DATE:

STATE

	. ⊠ GAS ☐ LIQUID INJECTION GAS) PRODUCTION : ☐ STORAGE		
	TION: 1246.8' WATERSHED		QUADRANGLE: Big Run
SURFACE OWNER:	EQT Production Company		ACREAGE: 25.25
ROYALTY OWNER:	Ridgetop Royalties, LLC, et al.	LEASE NO	: 1010666 ACREAGE: 32
□PERFORATE NE	☑ DRILL ☐ CONVERT ☐ DRILL DE EW FORMATION ☐ OTHER PHYSICA DON ☐ CLEAN OUT AND REPLUG	AL CHANGE IN WELL (S	And the state of t
WELL OPERATOR:	EQT Production Company	DESIGNATED AGENT:	Joseph C. Mallow
ADDRESS:	400 Woodcliff Drive	ADDRESS:	115 Professional Place PO Box 280
	Canonsburg, PA 15317		Bridgeport, WV 26330

WW-6A1 (5/13)

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

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

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

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

See Attachment

# 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				
By:	John Zavatchan	John F Zavat	chan Jr.		
Its:	Project Specialist	- Permitting			

Page 1 of 5



January 21, 2022

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

Re: BIG464 113H 6A1 Addendum

Dear Mr. Brewer,

This letter and supporting documentation serve as EQT Production Company's addendum to the WW-6A1 form associated with this well. The lease included on this addendum is a lease in which EQT "claims the right to extract, produce or market the oil or gas", but does not propose to encounter the lease with the proposed wellbore. EQT would like to report this lease as part of our Well Work Permit Application, as it is located within 50' of our proposed permitted wellbore.

If EQT does encounter this lease, an application for a permit modification will be filed with the West Virginia DEP, Office of Oil and Gas.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

Lease No.	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Book/Page
<u>1010666</u>	Ridgetop Royalties, LLC, et al. Ridgetop Royalties, LLC	<b>32</b> ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 166A/638
<u>712204</u>	Janice E. Nolan, et al. T. J. Glover, single, and Daniel Glover, single Carnegie Natural Gas Company Carnegie Production Company	120 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 19A/380 OG 78A/513 WV SOS
<u>1010668</u>	Ridgetop Royalties, LLC et al. Ridgetop Royalties, LLC	25 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 248A/272
<u>704100</u>	Piney Holdings, Inc., et al.  B. C. Merrifield and J. M. V. Merrifield, her husband J. E. Carnahan and H. L. Smith Carnegie Natural Gas Company Carnegie Production Company	70 ac	J. E. Carnahan and H. L. Smith Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	*at least 1/8th per WV Code 22-6-8*	DB 96/349 DB 96/349 OG 78A/513 WV SOS
<u>870575</u>	David E. Bowyer, et al. David E. Bowyer	147.5 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 226A/34

"at least 1/8th per WV Code 22-6-8"

	Randel J. Hartman, et al.			WV Code 22-6-8"	
<u>125459</u>	Virginia Myers and William S. Myers, her husband, et al	693 ac	Equitable Gas Company		OG 47A/16
	Equitable Gas Company		Columbia Gas Transmission Corporation		OG 64A/442
	Columbia Gas Transmission Corporation		Columbia Natural Resources, Inc.		OG 72A/368
	Columbia Natural Resources, Inc.		Columbia Natural Resources, LLC		Corp. 12/622
	Columbia Natural Resources, LLC		Chesapeake Appalachia, L.L.C.		DB 402/446
	Chesapeake Appalachia, L.L.C.		Statoilhydro USA Onshore Properties Inc.		OG 97A/578
	Statoilhydro USA Onshore Properties Inc.		Statoil USA Onshore Properties, Inc.		WV SOS
	Chesapeake Appalachia, L.L.C.		SWN Production Company, LLC		OG 157A/540
	Statoil USA Onshore Properties, Inc.		SWN Exchange Titleholder, LLC		OG 158A/801
	SWN Exchange Titleholder, LLC		SWN Production Company, LLC		Corp. 13/296
	SWN Production Company, LLC		Antero Exchange Properties LLC		OG 177A/533
	Statoil USA Onshore Properties, Inc.		Antero Exchange Properties LLC		OG 177A/738
	Antero Exchange Properties LLC		Antero Resources Corporation		Corp. 13/311
	Antero Resources Corporation		EQT Production Company		OG 227A/932
				"at least 1/8th per	
070450	Pikewood Energy Corporation, et al.	400	A	WV Code 22-6-8"	00 4044 477
<u>870450</u>	Pikewood Energy Corporation	139 ac	Antero Resources Corporation		OG 194A/177
	Antero Resources Corporation		EQT Production Company		OG 227A/932
				*at least 1/8th per	
	OXY USA Inc., et al.			WV Code 22-6-8"	
120327000	BRC Appalachian Minerals I LLC and BRC Minerals LP	158.5 ac	BRC Working Interest Company LLC	*** 0000 22 0 0	OG 102A/505 & 103A/320
120321000	BRC Working Interest Company	100.0 ac	EQT Production Company		OG 271A/94
	or working interest company		Earl Floadouor Sompany		
				at least 1/8th per	
	Emma Joyce Dahlin Anderson, et al.			WV Code 22-6-8"	
870442	Emma D. Anderson, widow	62.25 ac	Statoil USA Onshore Properties, Inc.		OG 161A/872
<u> </u>	Statoil USA Onshore Properties, Inc., et al	J. 20 00	EQT Production Company		OG 175A/707 & 185A/907
	Titles To Common Topolison inon of all				•. •. •. •. • • • • • • • • • • •

<u>870098</u>	Emma Joyce Dahlin Anderson, et al.  Pershing R. Taylor, a widower, et al  Drilling Appalachian Corporation  Grenadier Energy Partners, LLC  Drilling Appalachian Corporation  Statoil USA Onshore Properties, Inc., et al	196.5 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties, Inc. Statoil USA Onshore Properties, Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 77A/88 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
<u>870460</u>	Goldie Poole, et al. Goldie Poole, single	50 ac	EQT Production Corporation	"at least 1/8th per WV Code 22-6-8"	OG 184A/644
<u>870166</u>	Liberty Holding Company Liberty Holding Company, Inc. Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc., et al	74 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties, Inc. Statoil USA Onshore Properties, Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 78A/486 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
<u>870498</u>	William B. Francik and Pamela S. Francik, Trustees of The William B. and Pamela S. Francik Joint Revocable Living Trust, dated 2/12/2018  William B. Francik Sr. and Pamela S. Francik, husband and wife Drilling Appalachian Corporation  Grenadier Energy Partners, LLC  Drilling Appalachian Corporation  Drilling Appalachian Corporation  Statoil USA Onshore Properties, Inc., et al	67 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties, Inc. Statoil USA Onshore Properties, Inc. Statoil USA Onshore Properties, Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 77A/281 OG 126A/970 OG 138A/1 OG 138A/54 OG 153A/640 OG 175A/707

"at least 1/8th per WV Code 22-6-8"

Miriam K. Knowles, et al.

<u> 1</u>	<u>870125</u>	Miriam Knowles and Philip G. Knowles, wife and husband Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc., et al	68 ac	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties, Inc. Statoil USA Onshore Properties, Inc. EQT Production Company	OG 79A/138 & 79A/472 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707 and 185A/907
		Statoli USA Unshore Properties, Inc., et al		EQ1 Production Company	OG 175A/107 alid 165A/907

Operator's Well No.

BIG464 113H

Lease No.	Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty	Book/Page
<u>707114</u>	Ridgetop Royalties, LLC, et al. W. S. Furbee and Mary Furbee, his wife	78 ac	Carnegie Natural Gas Company	"at least 1/8th per WV Code 22-6-8"	OG 2A/182
	Camegie Natural Gas Company		Carnegie Production Company		OG 78A/513
	Carnegie Production Company		EQT Production Company		WV SOS
	AMP Fund III, LP, et al.			"at least 1/8th per WV Code 22-6-8"	
870630	Alice Hoskinson	25 ac	Drilling Appalachian Corp		OG 78A/300
	Drilling Appalachian Corporation		Grenadier Energy Partners, LLC		OG 118A/108 & 136A/538
	Grenadier Energy Partners, LLC		Statoil USA Onshore Properties, Inc.		OG 138A/1
	Drilling Appalachian Corporation		Statoil USA Onshore Properties, Inc.		OG 138A/54
	Statoil USA Onshore Properties, Inc., et al		EQT Production Company		OG 175A/707
	Noel Spencer, et al.  Noel Spencer, a married man dealing in his sole and separate			"at least 1/8th per WV Code 22-6-8"	
<u>186301001</u>	property	0.09375 ac	EQT Production Company		OG 271A/719
	Louis C. Freed, et al.			"at least 1/8th per WV Code 22-6-8"	
<u>186215000</u>	Louis C. Freed and Carolyn A. Freed, husband and wife	1.35 ac	EQT Production Company		OG 271A/653





January 21, 2022

Via FedEx Overnight

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304

RE:

Well Work Permit Modification

BIG464 113H Well

Permit Number 47-103-03437 Grant District, Wetzel County, WV

WVDEP Recipient,

Attached please find following information to modify the existing Well Work Permit for this well:

- Check in the amount of \$2,500 for the permit fee
- Check in the amount of \$2,500 for the expedited permit fee
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- Revised Well Bore Diagram
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan

EQT is proposing to extend the lateral from the previously permitted length.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

John Zavatchan

Project Specialist - Permitting

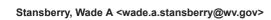
jzavatchan@eqt.com

724-746-9073

RECEIVED Office of Oil and Gas

JAN 2 4 2022

W Department of Environmental Protection





# Modification Horizontal H6A Well Work Permit (API: 47-103-03431, 03432, 03433, 03434, 03435, 03436, 03437)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Thu, Feb 3, 2022 at 12:00 PM

To: John <JZavatchan@eqt.com>, Todd <tklaner@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, Erin Spine <espine@eqt.com>, "Harris, Bryan O" <br/>bryan.o.harris@wv.gov>, Scott Lemley <slemley@wvassessor.com>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

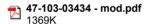
47-103-03431 - BIG 464 1H 47-103-03432 - BIG 464 3H 47-103-03433 - BIG 464 5H 47-103-03434 - BIG 464 7H 47-103-03435 - BIG 464 9H 47-103-03436 - BIG 464 11H 47-103-03437 - BIG 464 113H

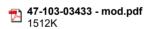
If you have any questions, then please contact us here at the Office of Oil and Gas.

#### Thank you,

Wade A. Stansberry
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Office of Oil & Gas
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#### 7 attachments





47-103-03435 - mod.pdf 1538K

47-103-03431 - mod.pdf 1655K

47-103-03436 - mod.pdf 1664K

47-103-03437 - Copy.pdf 1556K

47-103-03432 - mod.pdf 1664K