

### 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 9H

47-103-03435

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) 926-0450.

Operator's Well Number: BIG464 9H

Farm Name: EQT PRODUCTION COMPANY

U.S. WELL NUMBER: 47-103-03435

New Drill Modification/Lateral Extension

Date Modification Issued: 01/27/2022

Promoting a healthy environment.

API NO. 47-103	- 03435	
OPERATOR W	/ELL NO. 9H	
Well Pad Nar	me: BIG464	

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

1) Well Operator: EQT Production	on Company 306686 Wetzel Grant Big Run
(1) 4 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Operator ID County District Quadrangle
2) Operator's Well Number: 9H	Well Pad Name: BIG464
3) Farm Name/Surface Owner: EQ	OT Production Company Public Road Access: CR1
4) Elevation, current ground: 124	46.8' (built) Elevation, proposed post-construction: 1246.8' (built)
5) Well Type (a) Gas X Other	Oil Underground Storage
(b)If Gas Shallo Horizo	
6) Existing Pad: Yes or No Yes	
7) Proposed Target Formation(s), D Marcellus, 7,394', 51', 2,620 PSI	Depth(s), Anticipated Thickness and Expected Pressure(s):
8) Proposed Total Vertical Depth:	7394'
9) Formation at Total Vertical Dep	
10) Proposed Total Measured Dept	th: 23884' /
11) Proposed Horizontal Leg Lengt	th: 16086'
12) Approximate Fresh Water Strat	ta Depths: 109', 184', 432'
13) Method to Determine Fresh Wa	ater Depths: Offset Wells - 47-103-30593, 47-103-30910
14) Approximate Saltwater Depths	1724', 1848' /
15) Approximate Coal Seam Depth	hs: 556'-559', 795'-797', 897'-899', 912'-919'
16) Approximate Depth to Possible	e Void (coal mine, karst, other): N/A
17) Does Proposed well location co- directly overlying or adjacent to an	
(a) If Yes, provide Mine Info: N	Name:
E	Depth:
S	Seam:
C	Owner:

APINO	. 47-	103	-	03435

OPERATOR WELL NO. 9H

Well Pad Name: BIG464

18)

## CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1019	1019 /	1000 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2441	2441	1000 ft^3 / CTS
Production	5 1/2	New	P-110	20	23884	23884	500' above intermediate casing
Tubing							
Liners							

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							
Liners							

## PACKERS

Kind:		
Sizes:		
Depths Set:		

WW-6B	
(10/14)	

API NO. 47- 103 - 03435
OPERATOR WELL NO. 9H
Well Pad Name: BIG464

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, 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

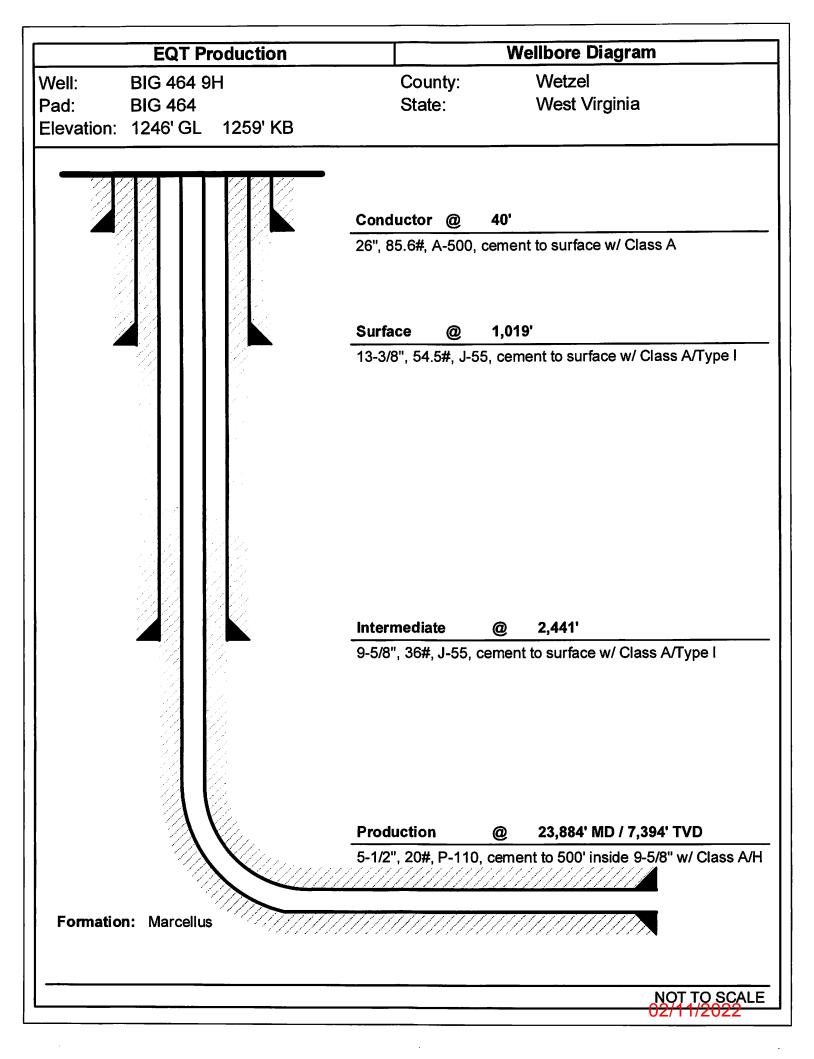
#### 25) Proposed borehole conditioning procedures:

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.



# WEST VIRGINIA GEOLOGICAL PROGNOSIS Horizontal Well BIG464

Finalized for Top Hole

S-000124

Drilling Objectives:

Marcellus

County: Quad:

Wetzel Big Run

Elevation:

1259 KB

1246 GL

TBD

TBD Degrees Recommended Azimuth

Recommended LP to TD: TBD

Proposed Logging Suite:

Pilot Logging Not needed

Formation	Top (TVD)	Base (TVD) Lithology	Comments	Top RR Ba	se RR
Fresh Water Zone	1	432	FW @ 109.184,252,278,432,	69	73
Waynesburg Coal	556	559 Coal	A Committee of the Comm	76	80
Coal	795	797 Coal	No known past/present/and or future mining within the area	96	114
Sewickley Coal	897	899 Coal		125	132 Base of Red
Pittsburgh Coal	912	919 Coal			
Maxton	1792	1971 Sandstone	SW @ 1724.1848		
Big Lime	2234	2310 Limestone			
Big Injun	2322	2391 Sandstone			
Int csg pt	2441				
Weir	2520	2670 Sandstone			
Top Devonian	2735				
Gantz	2735	2771 Silty Sand			
Fifty foot	2876	2932 Silty Sand	Storage is NOT of concern		
Thirty foot	2971	2998 Silty Sand			
Gordon	3027	3072 Silty Sand			
Forth Sand	3097	3110 Silty Sand	Base of Offset Well Perforations at 3129' TVD		
Fifth Sand	3169	3188 Silty Sand			
Bayard	3222	3240 Silty Sand			
Warren	3645	3669 Silty Sand			
Speechley	3765	3813 Silty Sand		- 1	
Balltown A	4123	4138 Silty Sand			
Riley	4608	4650 Silty Sand			
Benson	5237	5286 Silty Sand			
Alexander	5651	5718 Silty Sand			
Elks	5718	6917 Gray Shales and Silts			
Sonyea	6917	7080 Gray shale			
Middlesex	7080	7136 Shale			
Genesee	7136	7223 Gray shale interbedded			
Geneseo	7223	7255 Black Shale		1	
Tully	7255	7280 Limestone			
Hamilton	7280	7378 Gray shale with some			
Marcellus	7378	7429 Black Shale		1	
Purcell.	7393	7396 Limestone			
-Lateral Zone	7394				
Cherry Valley	7409	7413 Limestone			
Onondaga	7429	Limestone			

Target Thickness 51 feet

Comments:

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

RECOMMENDED CASI	ING POINTS				
Fresh Water/Coal	CSG OD	13 3/8	CSG DEPTH	1019	Beneath Pittsburgh Coal
Intermediate 1:	CSG QD	9 5/8	CSG DEPTH	2441	Beneath the Big Injun formation
Production:	CSG OD	5 1/2	CSG DEPTH @ TD		and the same of th

### **EQT Production**

Hydraulic Fracturing Monitoring Plan

Pad ID: BIG464

County: Wetzel

January 21, 2022

#### **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.

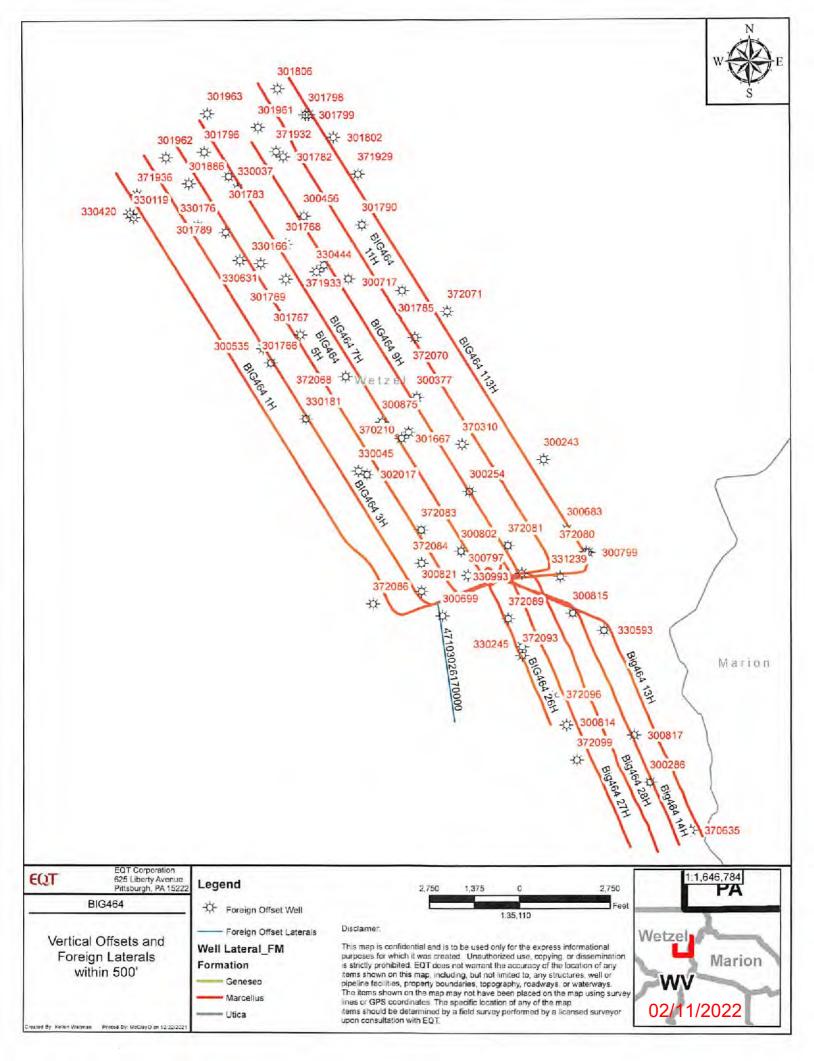
EQT will recommend to these operators at a minimum to:

- 1. 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

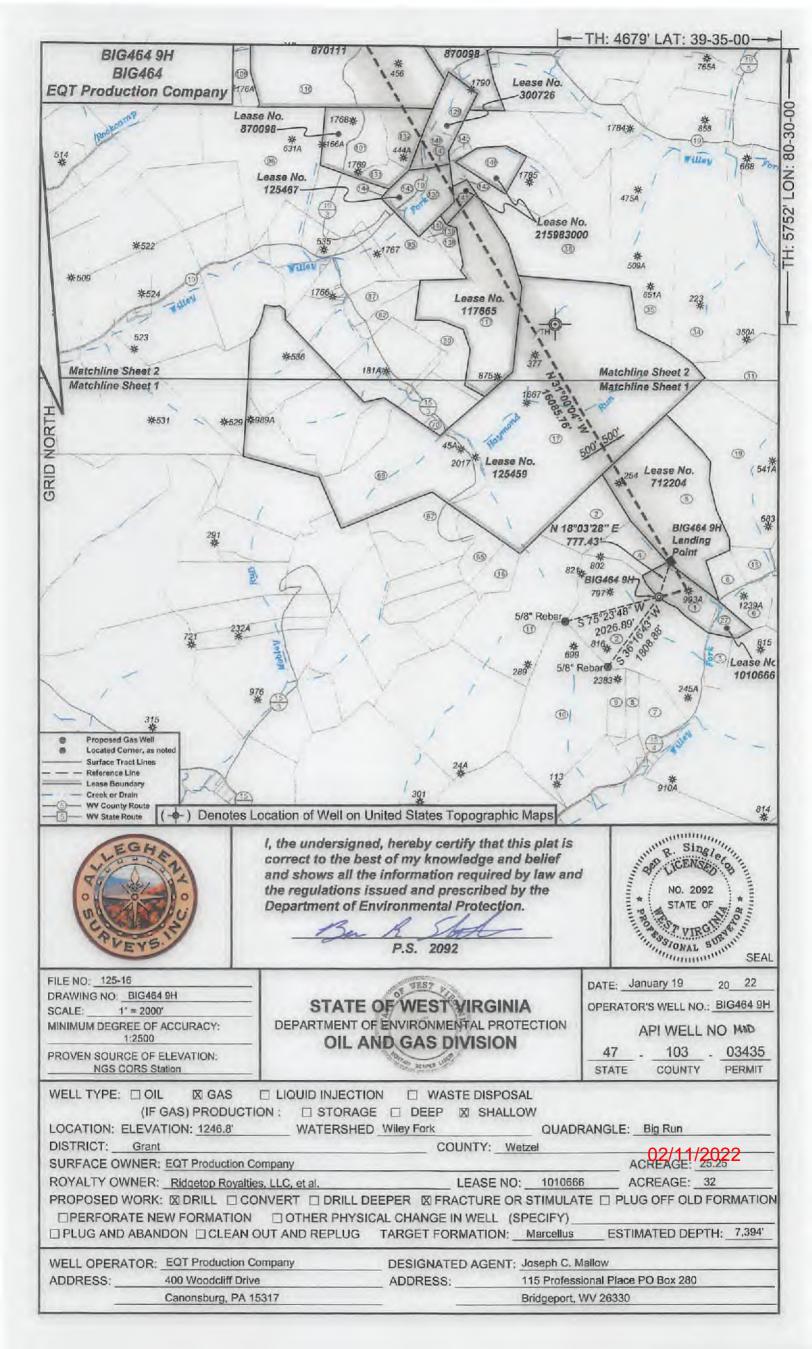
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

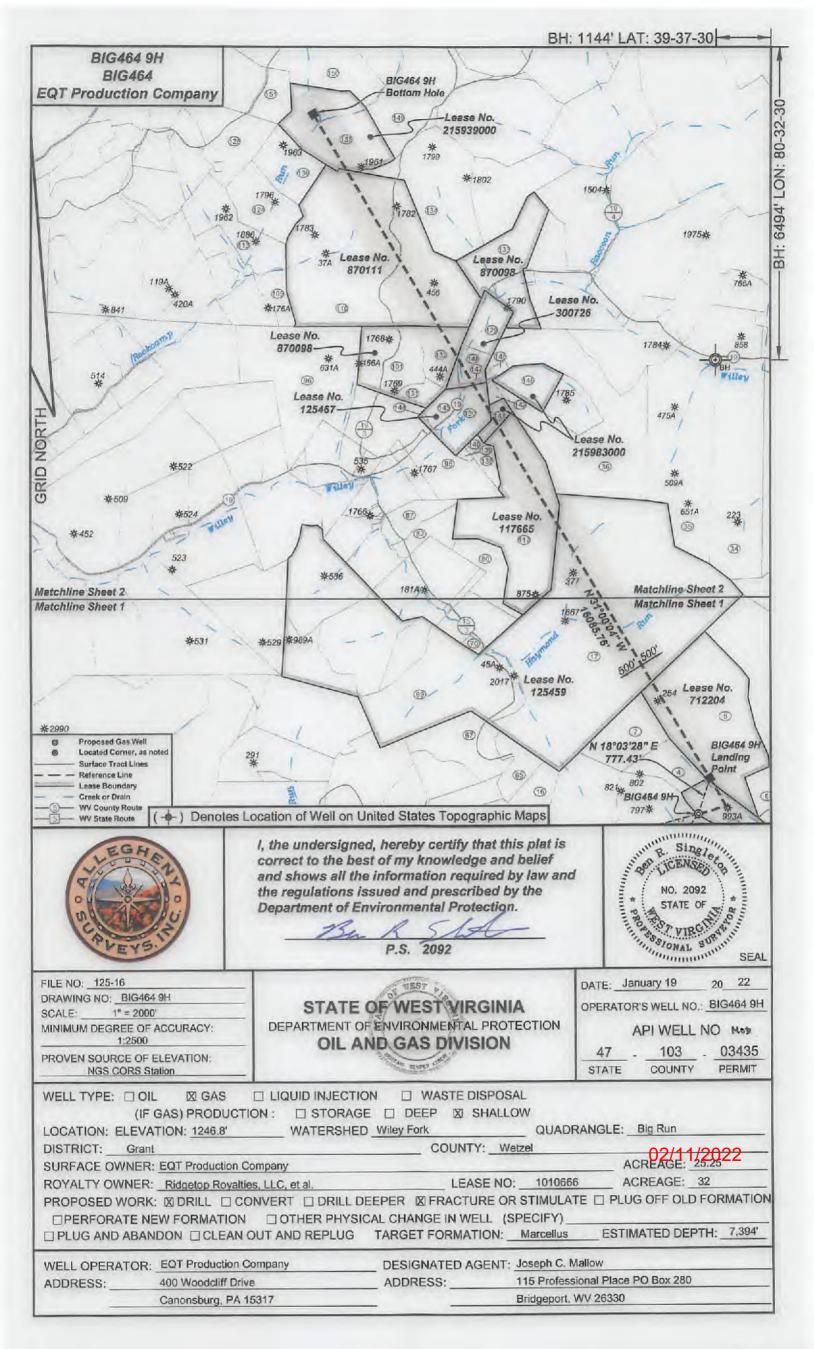
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UWI 372080	ACT_STATUS Completed Wells	CURR_OPER CARNEGIE NATURAL GAS CORP	FRI_CLASS UNCLASSIFIED	INIT_CLASS UNCLASSIFIED		LONGITUDE OPER_NAME -80.50730600 CARNEGIE NATURAL GAS CORP	DATUM 6 NAD27	O.OO	101_DEPTH 1	0.00
300817	Completed Wells	EQT PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.50730800 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
371936	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED		-80.55553000 HOPE NATURAL GAS	NAD27	0.00	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	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	0.00
301667	Completed Wells/WHCS	ANIA RESOURCES	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.52717940	NAD27	1066.00	0.00	0.00
372071	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.52210600 UNKNOWN	NAD27	0.00	0.00	0.00
372086 371932	Completed Wells Completed Wells	HOPE NATURAL GAS HOPE NATURAL GAS	UNCLASSIFIED UNCLASSIFIED	UNCLASSIFIED UNCLASSIFIED		-80.53034900 HOPE NATURAL GAS -80.54046500 HOPE NATURAL GAS	NAD27 NAD27	0.00	0.00	0.00
370310	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED		-80.52060700 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
370635	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.49617600 UNKNOWN	NAD27	0.00	0.00	0.00
330444	Completed Wells	HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.53622100 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
372068	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.53315900 UNXNOWN	NAD27	0.00	0.00	0.00
372089	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.51573600 UNKNOWN	NAD27	0.00	0.00	0.00
300243 372093	Completed Wells	HOPE NATURAL GAS UNKNOWN	UNCLASSIFIED UNCLASSIFIED	DEVELOPMENT WELL UNCLASSIFIED		-80.51180200 HOPE NATURAL GAS -80.51423800 UNKNOWN	NAD27 NAD27	1272.00	1018.00	0.00 0.00
372093 300815	Completed Wells Completed Wells	UNKNOWN DIVERSIFIED PRODUCTION LLC	UNCLASSIFIED PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.51423800 UNKNOWN -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		-80.53690870 DAC CORP	NAD27	1525.00	2323.00	0.00
370210	Completed Wells	HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.52641500 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
300377 🖚	Completed Wells/WKCS	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
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	0.00	0.00	0.00
300797	Completed Wells	EQT PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.52004500 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
372084	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED		-80.52510300 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
331239	Completed Wells	CONSOLIDATED GAS SUPPLY CORP	UNCLASSIFIED	UNCLASSIFIED		-80.51011600 CONSOUDATED GAS SUPPLY CORP	NAD27	0.00	0.00	0.00
372081	Completed Wells Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED PSEUDO-ORIGINAL WELL - UNKNOWN CLASS		-80.51573600 HOPE NATURAL GAS -80.55590400 CARNEGIE NATURAL GAS CORP	NAD27 NAD27	0.00	0.00	0.00
330119 371929	Completed Wells	CARNEGIE NATURAL GAS CORP HOPE NATURAL GAS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS UNCLASSIFIED	UNCLASSIFIED		-80.53590600 CARNEGIE NATURAL GAS CORP -80.53166000 HOPE NATURAL GAS	NAD27	0.00	0.00	0.00
372083	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.52510300 UNKNOWN	NAD27	0.00	0.00	0.00
371933	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED		-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	-80.5095S400 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		-80.50056200 UNKNOWN	NAD27	1171.00	3066.00	0.00
301766	Completed Wells/WHCS		DEVELOPMENT WELL-GAS	DEEPER POOL WILDCAT		-80.54121730 DAC CORP	NAD27	871.00	2302.00	0.00
301961	Completed Wells/WHCS		DEVELOPMENT WELL-OIL	DEVELOPMENT WELL		-80.54241940 EXCEL ENERGY INC	NAD27	1380.00	3696.00	0.00
301789	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.54597870 DAC CORP	NAD27	1420.00 1356.00	3584.00 3294.00	0.00
330631 300699	Completed Wells Completed Wells	DIVERSISED PRODUCTION LC	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL DEVELOPMENT WELL		-80.52285500 CONSOLIDATED GAS SUPPLY CORP	NAD27	0.00	3154.00	0.00
301782	Completed Wells/WHCS	0,01,00,000	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.53971940 DAC CORP	NADZ7	1424.00	3823.00	0.00
300799	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.50705510 CARNEGIE NATURAL GAS CORP	NAD27	1090.00	3086.00	0.00
330176	Completed Wells	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.54897300 PITTSBURGH & W VA GAS	NAD27	1078.00	3135.00	0.00
300456~	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.53753500 UNKNOWN	NAD27	1295.00	2505.00	0.00
301806	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80,54028070 DAC CORP	NAD27	1209.00	3365.00	0.00
300699	Completed Wells	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-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		-80,53803360 DAC CORP	NAD27	868.00	3264.00	0.00
330593	Completed Wells	CARNEGIE NATURAL GAS CORP	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.50543300 CARNEGIE NATURAL GAS CORP	NAD27 NAD27	1527.00 981.00	1887.00 3310.00	0.00
301886 330245	Completed Wells/WHCS Completed Wells	XTO ENERGY INC CARNEGIE NATURAL GAS CORP	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL DEVELOPMENT WELL		-80.54991380 EXCEL EMERGY INC -80.51423800 CARNEGIE NATURAL GAS CORP	NAD27	1040.00	2908.00	0.00
330181	Completed Wells	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.53746800 PITTSBURGH & W VA GAS	NAD27	906.00	2936.00	0.00
301963	Completed Wells/WHCS	XTO ENERGY INC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.60628400	-80.54785220 EXCEL ENERGY INC	NAD27	1224.00	3350.00	0.00
330045	Completed Wells	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.57651200	-80.53184700 HOPE NATURAL GAS	NAD27	0.00	2146.00	0.00
300802	Completed Wells	EQT PRODUCTION CO	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	PSEUDO-ORIGINAL WELL - UNKNOWN CLASS	39.56983500	-80.52079400 CARNEGIE NATURAL GAS CORP	NAD27	0.00	0.00	0.00
301790	Completed Wells/WHCS	DIVERSIFIED PRODUCTION ILC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.53128500 DAC CORP	NAD27	904.00	3126.00	0.00
330037	Completed Wells	PITTSBURGH & W VA GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.54466400 PITTSBURGH & W VA GAS	NAD27	869.00	1966.00	0.00
330993-	Completed Wells	CARNEGIE NATURAL GAS CORP XTO ENERGY INC	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL DEVELOPMENT WELL		-80.51423800 CARNEGIE NATURAL GAS CORP	NAD27 NAD27	1131.00 1003.00	3004.00 3337.00	0.00
301796 330593	Completed Wells/WHCS Completed Wells	UNKNOWN	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.50543300 UNKNOWN	NAD27	1527.00	3438.00	0.00
301799	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.53728000 DAC CORP	NAD27	1525.00	3629.00	0.00
301768	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	NEW POOL WILDCAT		-80.53953300 DAC CORP	NAD27	1285.00	3679.00	0.00
300254	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-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		-80.53428680 DAC CORP	NAD27	1401.00	3594.00	0.00
30176 <del>9</del>	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	NEW POOL WILDCAT		-80.53953180 DAC CORP	NAD27	1326.00	3692.00	0.00
300535	Completed Wells	EQUITABLE GAS CO	UNCLASSIFIED	UNCLASSIFIED		-80.54203900 EQUITABLE GAS CO	NAD27	1008.00	3057.00	0.00
372096	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.51105300 UNKNOWN	NAD27 NAD27	0.00 1310.00	0.00 3226.00	0.00
330420 300717	Completed Wells Completed Wells	UNKNOWN DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-OIL DEVELOPMENT WELL-GAS	DEVELOPMENT WELL  DEVELOPMENT WELL		-80.55630300 UNKNOWN -80.53278400 CONSOLIDATED GAS SUPPLY CORP	NAD27	880.00	1927.00	0.00
300717	Completed Wells/WHCS	XTO ENERGY INC	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.53278400 CONSOCIDATED GAS SUPPLY CORP	NAD27	1325.00	3633.00	0.00
301962 302017	Completed Wells/WKCS	DYNATEC ENERGY INC	DEVELOPMENT WELL-GAS DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	33.000	-80.53234980 EXCEL ENERGY INC	NAD27	948.00	711.00	0.00
330166	Completed Wells	HOPE NATURAL GAS	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.54222900 HOPE NATURAL GAS	NAD27	1012.00	2215.00	0.00
372099	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED		-80.50843000 UNKNOWN	NAD27	0.00	0.00	0.00
301783	Completed Wells/WHCS	DIVERSIFIED PRODUCTION LLC	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL		-80.54560100 DAC CORP	NAD27	1376.00	3555.00	0.00
Lateral										
UWI	ACT_STATUS	CURR_OPER	FNL_CLASS	INIT_CLASS		LONGITUDE OPER_NAME	DATUM I NAD27		TOT_DEPTH 1 10761.00 7	
4/10302617000	XX Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55563000	-80.52162000 EQT PRODUCTION CO	RAUZ/	341.00	10/01.00	,117.00 W

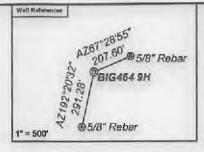
DATUM ELEVATION TOT\_DEPTH TVD WELL\_NAME WELL\_NUM
NAD27 94L00 1076L00 7117.00 WV 511423 ALLEN / M WV 511423





### BIG464 9H **BIG464 EQT Production Company**

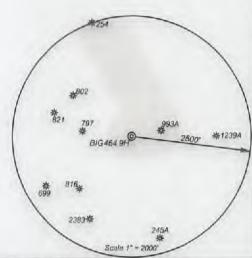
Tract i.U.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
0	-68	34	Wetzel	Grant	EQT Production Company	25.25
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.00
3	15.	27	Wetze	Grant	Beverly Lynn Barr Life Estate	10.00
4	14	27	Wetzel	Grant	EQT Production Company	22.00
-8.	14	20	Wetasi	Grant	EQT Production Company	126.50
- 6	15	16	Wettel	Grant.	Donald J. D'Lusky	25,00
T	14	45	Wetzel	Grant.	Coastal Formil Resources Company	11.08
10	14.	44	Wetzei	Grant	Mabel F. Sarr	11,00
0	14	43	Wetzel	Grant	Mabel F. Barr	11.01
10	14	42	Wedge	Grant	Donald J. D'Lustry	111.00
15	10	33	Wetzel	Grand	Attac H. & Hilds B. Consway	108.00
15	14	32	Wetzel	Grant	Mary Jane Byard	13.30
17	14	0	Wetzel	Grant	Coastal Forest Resources Company	332.9
18	15	tn	Wetzel	Grant	Donald J. D'Uzsky	29 50
19	15	12	Wetzel	Grant	William Bowers & Donald J. D'Lusky	147.50
27			Wetzel	Grant	No Tax Map & Parcel Information	
31	15	5	Wetzel	Grant	William Bowers, et al.	43.20
34	10	59	Wetzal	Grant	Constal Forest Resources Company	107.0
35	9	39	Wetzel	Grant	Coastal Forest Resources Company	128.0
36	.0	38	Wetzel	Grant	Tarry L. & Carolyn M. Fry	155.0
05	14	26	Wetael	Grant	Mary Jane Byard	14.50
87	14	25	Weiter	Grant	ET Blue Grass, LLC	05.88
69	14	10	Wetzel	Grant	Coastal Forest Resources Company	138.8
70	14	13	Wetzel.	Grant	Coastal Forest Resources Company	2.80
80	16	5	Wetzel	Grant	Dale R. & Sherry Dulaney	21.60
82	0	do	Wetzel	Grant	Jeffery Wiley Life Estate	16.50
87	D	59.1	Wetzel	Grant	Ciydie R. & Conole L. Fordyce	18.70
95	.0	-30	Wetzel	Grant	John D. Parks, et al.	73.66
96	9	23	Wetzel	Grant	Stephen 8 & Carolyn M. Gantz	119.0
101	9	.24	Wetzel	Grant	John D. Parks, et al.	46.00
100	0	10	Wetze	Grant	W. K. Willoy Estate	13.40
110	0	10	Wetzel	Grant	William B. & Famela Francik	233.3
115	0	. 6	Wetzel	Grant	James A. Yoho	45.08
117	0	81	Webter	Grant	Jimboba Doint Mountain Refrest	114.10
124	.0	7	Wetze	Grant	James D. & Gollette J. Streets	34.00
125	A	7	Wetzel	Grant	Earl Stonelling	45.50
129	0	62	Wetrei	Grant	William B. & Pamela S. Franck	30.50
130	0	32	Wetzel	Grant	Terry L. & Carolyn M. Fry	23.85
131	0	25	Western	Grant	Deborah Fronczek & John Parks	6.98
132	0.	25.1	Wetzel	Grant	Winam B. & Pameta S. Franck	23.20
133	. 0	11	Wetou	Grant	Elizabeth Amendson, et al.	53.37
134	0	2	Wetzel	Grant.	Liberty Holding Cumpany	74.50
135	A	8	Wateri	Grant	James A. Yoho	63.00
130	TA	18:	Wetzel	Grant	James A. Voho	30.00
138	B	.51	Wetzel	Grant.	H. J. Zimmerman	8.10
130	0	50	Weizel	Grant	Terry L. & Carolyn M. Fry.	1,30
140	0	51.1	Wetzil	Grant	H J. Zimmonan	2,00
141	.0	35	Wertzel	Grant	Terry L. & Carolyn M. Fey	6.25
142	0	34	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.25
143	Ø	32.2	Wetzel	Grant	John D. Parks & Deborah Fronczek	8.95
144	0	31	Wetzel	Grant	John D. Parks, et al.	1.20
145	0	32.1	Wetzel	Grant	Terry L. & Carolyn M. Fry	3.40
148	0	36	Wetzel	Grant	Terry L. & Carolyn M. Fry	15,00
147	0	33	Wetzni	Grant	Terry L & Gerolyn M Fry	0.05
148	9	20	Wetzet	Grant	Elizabeth L. Taylor, et al.	10.08
149	20	38	Wetzel	Dehter	William B. Francis, Str. & Pameta Spinoso	66.58
150	- 4	5	Wetzel	Grant	James Daniel Kennedy	100.00
151	4	4	Watzni	Grant	Raigh D. Thacker & Maurica J. Carisle, Jr.	53,50



Notes: BIG464 9H coordinates are NAD 27 N: 390,443.43 E: 1,713,414.48 NAD 27 Lat: 39,567543 Long: -80,516596 NAD 83 UTM N: 4,379,881,53 E: 541,538.70 NAD 83 UTM N: 4,379,881.53 E: 541,538.70 BIG464 9H Landling Point coordinates are NAD 27 N: 391,182.56 E: 1,713,655.46 NAD 27 La: 39,569580 Long: 80,515770 NAD 83 UTM N: 4,380,107.94 E: 541,608.37 BIG464 9H Bottom Hole coordinates are NAD 27 N: 404,970.60 E: 1,705,370.43 NAD 27 La: 39,607172 Long: 80,545727 NAD 83 UTM N: 4,384,266.45 E: 539,014.25 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 46		-114	1.0	
-	-alf	BIG464 3H	u,	
1	Lease O	GA64	LP CP	
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Leas	1	CO NGA	80	120
70711		@BILL	1G464 9H	
	1	B	10	
	BIG464 H	13	016464	.434
	47-103-032	11 / 0	981G464 981G46	hi di
BIGARA	H26 @	0 /	(MB10"	"X 44Th.
47-103-0		6	Ja all	40m
	464 H27 @	BIG464	HIAQ	
17 10	0.00044	47-103	-03212	477H
B	IG454 H28			1
47.	103-03215			1

Lease No.	Owner	Acres
712204	Janice E. Nolan, et al.	120
125459	Randel J. Hartman, et al.	693
117665	AMP Fund III, L.P., et al.	150
215983000	The Mineral Comapny LLC	21.25
125467	Roger K. Hinerman, et al.	34
300726	Emma Joyce Dahlin Anderson, et al.	43
870098	Emma Joyce Dahlin Anderson, et al.	196.5
870111	Three Rivers Royalty II, LLC, et al.	234
215939000		62.75





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

Single Single	Manual Park
NO. 2092 STATE OF VIRGINAL SU	'02 *
SIONAL SUR	SEAL

LIFE IAC	0-10
DRAWING NO	D: BIG464 9H
SCALE:	1" = 2000'
MINIMUM DE	GREE OF ACCURACY: 1:2500
PROVEN SOI	IRCE OF ELEVATION

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

DATE: _	Janu	ary 19		20_	22
OPERAT	OR'S	S WELL NO	.: <u>E</u>	3IG	464 9H
	A	PI WELL	N	0	MoD
47		103		0	3435
STATE		COLINITY		DE	DIMIT

NGS CORS Statio	n	SELECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF		STATE COUNTY	PERMIT
	☑ GAS ☐ LIQUID INJECT S) PRODUCTION : ☐ STORAG DN: 1246.8' WATERSHE	GE DEEP X SHALLO	W	NGLE: Big Run	
DISTRICT: Grant		COUNTY: Wet		02/11/	2022
SURFACE OWNER: EC	T Production Company			ACREAGE: 2	25.25
ROYALTY OWNER: R	tidgetop Royalties, LLC, et al.	LEASE NO:	1010666		
PROPOSED WORK: ☒ □PERFORATE NEW	DRILL CONVERT DRILL I FORMATION OTHER PHYS N CLEAN OUT AND REPLUG	DEEPER IX FRACTURE OR ICAL CHANGE IN WELL (SF	STIMULATE PECIFY)	☐ PLUG OFF OLD	FORMATION
WELL OPERATOR: EG	QT Production Company	DESIGNATED AGENT: J	oseph C. Mall	ow	
ADDRESS: 40	0 Woodcliff Drive			al Place PO Box 280	- 1
Ca	nonsburg, PA 15317	The state of the s	Bridgeport WV		

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	Zavatchan Or
Its:	Project Specialist ·		

Page 1 of <u>4</u>



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 9H 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
	Ridgetop Royalties, LLC, et al.			"at least 1/8th per WV Code 22-6-8"	
<u>1010666</u>	Ridgetop Royalties, LLC	32 ac	EQT Production Company		OG 166A/638
				"at least 1/8th per	
	Janice E. Nolan, et al.			WV Code 22-6-8"	
<u>712204</u>	T. J. Glover, single, and Daniel Glover, single	120 ac	Carnegie Natural Gas Company		OG 19A/380
	Carnegie Natural Gas Company		Carnegie Production Company		OG 78A/513
	Carnegie Production Company		EQT Production Company		WV SOS
	Dandal I Hadaaa atal			"at least 1/8th per WV Code 22-6-8"	
125459	Randel J. Hartman, et al. Virginia Myers and William S. Myers, her husband, et al	693 ac	Equitable Gas Company	*** Code 22-0-0	OG 47A/16
123435	Equitable Gas Company	033 ac	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	
	AMP Fund III, L.P., et al.			WV Code 22-6-8"	
<u>117665</u>	Sarah J. Kiger and E. C. Kiger, her husband	150 ac	Pittsburgh & West Virginia Gas Company		OG 13A/285
	Pittsburgh & West Virginia Gas Company		Equitable Gas Company		DB 187/321
	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

Antero Resources Corporation  EQT Production Company  "at least 1/8th per WV Code 22-6-8"  215983000  The Mineral Company LLC  215983000  The Mineral Company LLC  21.25 ac  EQT Production Company  GG 277A/340  "at least 1/8th per WV Code 22-6-8"  "at least 1/8th per WV Code 22-6-8"  125467  Flossie Poe Lamb, widow, et al  Equitable Gas Company  Columbia Gas Transmission Corporation  Columbia Gas Transmission Corporation  Columbia Natural Resources, Inc.  Columbia Natural Resources, LLC  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  SWN Production Company, LLC  OG 157A/540
The Mineral Company LLC  215983000  The Mineral Company LLC  21.25 ac  EQT Production Company  "at least 1/8th per WV Code 22-6-8"  Columbia Flossie Poe Lamb, widow, et al  Equitable Gas Company  Columbia Gas Transmission Corporation  Columbia Gas Transmission Corporation  Columbia Natural Resources, Inc.  Columbia Natural Resources, Inc.  Columbia Natural Resources, LLC  Chesapeake Appalachia, L.L.C.  DB 402/446  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties, Inc.  WY SOS  Chesapeake Appalachia, L.L.C.  SWW Production Company, LLC  OG 157A/540
Roger K. Hinerman, et al.  Flossie Poe Lamb, widow, et al 34 ac Equitable Gas Company OG 52A/473 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. WV SOS Chesapeake Appalachia, L.L.C. SWN Production Company, LLC OG 157A/540
Flossie Poe Lamb, widow, et al 34 ac Equitable Gas Company OG 52A/473 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. WV SOS Chesapeake Appalachia, L.L.C. SWN Production Company, LLC OG 157A/540
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 Columbia Natural Resources, LLC 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. WV SOS Chesapeake Appalachia, L.L.C. SWN Production Company, LLC OG 157A/540
Columbia Gas Transmission Corporation  Columbia Natural Resources, Inc.  Columbia Natural Resources, Inc.  Columbia Natural Resources, LLC  Columbia Natural Resources, LLC  Columbia Natural Resources, LLC  Chesapeake Appalachia, L.L.C.  DB 402/446  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WV SOS  Chesapeake Appalachia, L.L.C.  SWN Production Company, LLC  OG 157A/540
Columbia Natural Resources, Inc.  Columbia Natural Resources, LLC  Columbia Natural Resources, LLC  Chesapeake Appalachia, L.L.C.  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  WW SOS  Chesapeake Appalachia, L.L.C.  SWN Production Company, LLC  OG 157A/540
Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties Inc. Statoil USA Onshore Properties, Inc. WV SOS Chesapeake Appalachia, L.L.C. SWN Production Company, LLC OG 157A/540
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
Statoilhydro USA Onshore Properties Inc.  Statoil USA Onshore Properties, Inc.  WV SOS Chesapeake Appalachia, L.L.C.  SWN Production Company, LLC  OG 157A/540
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State il USA Onchero Proportios Inc. SWN Evchange Titleholder LLC OG 1584/801
Statuti OSA Offsitule Properties, Inc.
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
Emma Joyce Dahlin Anderson, et al. WV Code 22-6-8"
300726 Leroy Taylor and Malinda Taylor, his wife 43 ac Hope Natural Gas Company OG 5A/248
Hope Natural Gas Company Consolidated Gas Supply Corporation DB 233/387
Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation OG 66A/69
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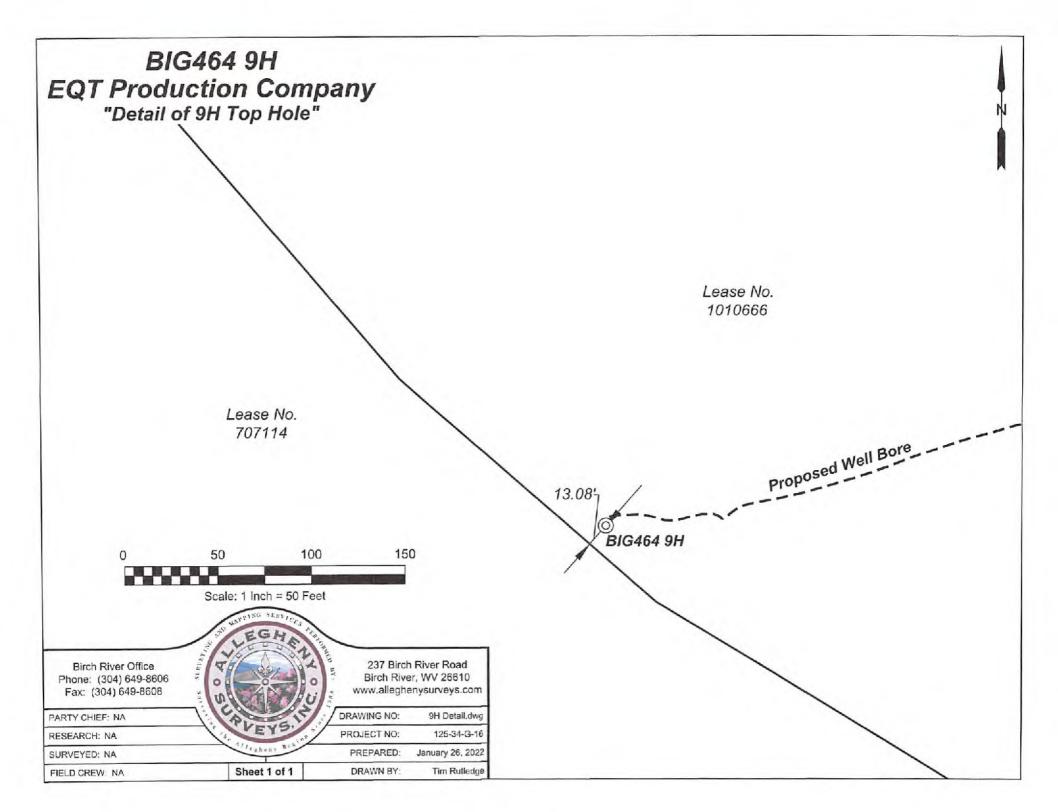
	Eastern States Oil and Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company		Blazer Energy Corp. Eastern States Oil and Gas, Inc. Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Company		Corp. 12/253 Corp. 12/259 WV SOS WV SOS WV SOS Corp. Book 13/14
<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/86 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
<u>870111</u>	Three Rivers Royalty II, LLC, et al. Harry W. Taylor and Myrtle Taylor, his wife M. P. Wells W. D. Brookover, Jr., (lawful successor-in-interest to W. D. Brookover) Drilling Appalachian Corporation Grenadier Energy Partners, LLC Drilling Appalachian Corporation Statoil USA Onshore Properties, Inc., et al	234 ac	M. P. Wells W. D. Brookover 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 42A/213 OG 42A/216 OG 77A/638 OG 118A/108 & 136A/538 OG 138A/1 OG 138A/54 OG 175A/707
<u>215939000</u>	James Arthur Yoho, et al. James Arthur Yoho, a widower	62.75 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 274A/543

WW-6A1 addendum attachment

Operator's Well No.

BIG464 9H

Lease No.	Grantor, Lessor, etc.	_	Grantee, Lessee, etc.	Royalty	Book/Page
	D D. W. 110 11			"at least 1/8th per WV Code 22-6-8"	
	Ridgetop Royalties, LLC, et al.			WW Code 22-0-0	
<u>707114</u>	W. S. Furbee and Mary Furbee, his wife	78 ac	Carnegie Natural Gas Company		OG 2A/182
	Carnegie Natural Gas Company		Carnegie Production Company		OG 78A/513
	Carnegie Production Company		EQT Production Company		WV SOS





EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

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 9H Well

Permit Number 47-103-03435 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

0000590927 \$2500 CHE 000059136





# 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.

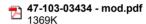
47-103-03431 - BIG 464 1H 47-103-03432 - BIG 464 3H 47-103-03433 - BIG 464 5H 47-103-03434 - BIG 464 7H 47-103-03435 - BIG 464 9H 47-103-03436 - BIG 464 11H 47-103-03437 - BIG 464 113H

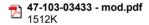
If you have any questions, then please contact us here at the Office of Oil and Gas.

#### Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

#### 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