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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday January 31, 2022  
PERMIT MODIFICATION APPROVAL  
New Drill / Modification

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

Re: Permit Modification Approval for BIG 464 1H  
47-103-03431

**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.

A blue ink signature of James A. Martin, Chief, is written over a white background. The signature is stylized and cursive.

James A. Martin  
Chief

Operator's Well Number: BIG 464 1H  
Farm Name: EQT PRODUCTION COMPANY  
U.S. WELL NUMBER: 47-103-03431  
New Drill Modification  
Date Modification Issued: 01/31/2022

Promoting a healthy environment.

02/11/2022

103-03431 MOD  
Exp



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 1H Well  
Permit Number 47-103-03431  
Grant District, Wetzel County, WV

Chk#  
0000590918 - \$2500  
12/08/21  
0000592359  
\$2500

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 *> Exp.*
- 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](mailto:jzavatchan@eqt.com)  
724-746-9073

RECEIVED  
Office of Oil and Gas  
JAN 24 2022  
WV Department of Environmental Protection

02/11/2022

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

1) Well Operator: EQT Production Company 306686 Wetzel ✓ Grant ✓ Big Run ✓  
Operator ID County District Quadrangle

2) Operator's Well Number: 1H Well Pad Name: BIG464

3) Farm Name/Surface Owner: EQT Production Company Public Road Access: CR1

4) Elevation, current ground: 1246.8' (built) Elevation, proposed post-construction: 1246.8' (built)

5) Well Type (a) Gas X Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow X Deep \_\_\_\_\_

Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,394', 51', 2,620 PSI

8) Proposed Total Vertical Depth: 7394'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23675' ✓

11) Proposed Horizontal Leg Length: 14868' ✓

12) Approximate Fresh Water Strata Depths: 109', 184', 252', 278', 432'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-30593, 47-103-30910

14) Approximate Saltwater Depths: 1724', 1848'

15) Approximate Coal Seam Depths: 556'-559', 795'-797', 897'-899', 912'-919'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	50 ft <sup>3</sup> / CTS
Fresh Water	13 3/8	New	J-55	54.5	1019	1019 ✓	1000 ft <sup>3</sup> / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2441	2441 ✓	1000 ft <sup>3</sup> / CTS
Production	5 1/2	New	P-110	20	23675	23675 ✓	500' above intermediate casing
Tubing							
Liners							

*Bryan Harris 1/20/22*

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:				

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.

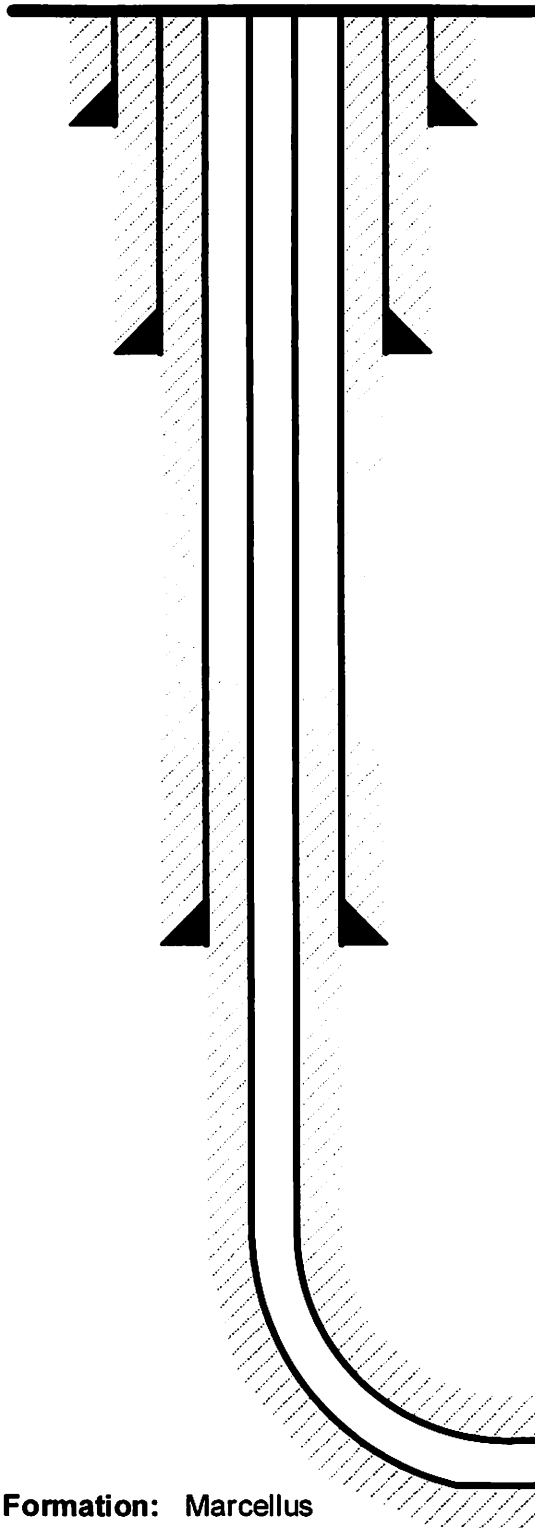
\*Note: Attach additional sheets as needed.

**EQT Production**

**Wellbore Diagram**

Well: BIG 464 1H  
Pad: BIG 464  
Elevation: 1246' GL 1259' KB

County: Wetzel  
State: West Virginia



**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

**Production @ 23,675' MD / 7,394' TVD**

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:**

Wetzel

**Quad:**

Big Run

**Elevation:**

1259 KB

1246 GL

**Recommended Azimuth:**

TBD

TBD Degrees

**Recommended LP to TD: TBD**

**Proposed Logging Suite:**

Pilot Logging Not needed

**ESTIMATED FORMATION TOPS**

From 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	Coal	No known past/present/and or future mining within the area	76	80
Coal	795	797	Coal		96	114
Sewickley Coal	897	899	Coal		125	132
Pittsburgh Coal	912	919	Coal			Base of Red
Maxton	1792	1971	Sandstone	SW @ 1724,1845		
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	Storage is NOT of concern		
Fifty foot	2876	2932	Silty Sand			
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			
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			
Genesee	7223	7255	Black Shale			
Tully	7255	7280	Limestone			
Hamilton	7280	7378	Gray shale with some			
Marcellus	7378	7429	Black Shale			
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 Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

**RECOMMENDED CASING POINTS**

<b>Fresh Water/Coal</b>	CSG OD	13 3/8	CSG DEPTH:	1019	Beneath Pittsburgh Coal
<b>Intermediate 1:</b>	CSG OD	9 5/8	CSG DEPTH:	2441	Beneath the Big Injun formation
<b>Production:</b>	CSG OD	5 1/2	CSG DEPTH	@ TD	

02/11/2022

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 33CSR8 5.1 I, 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**.

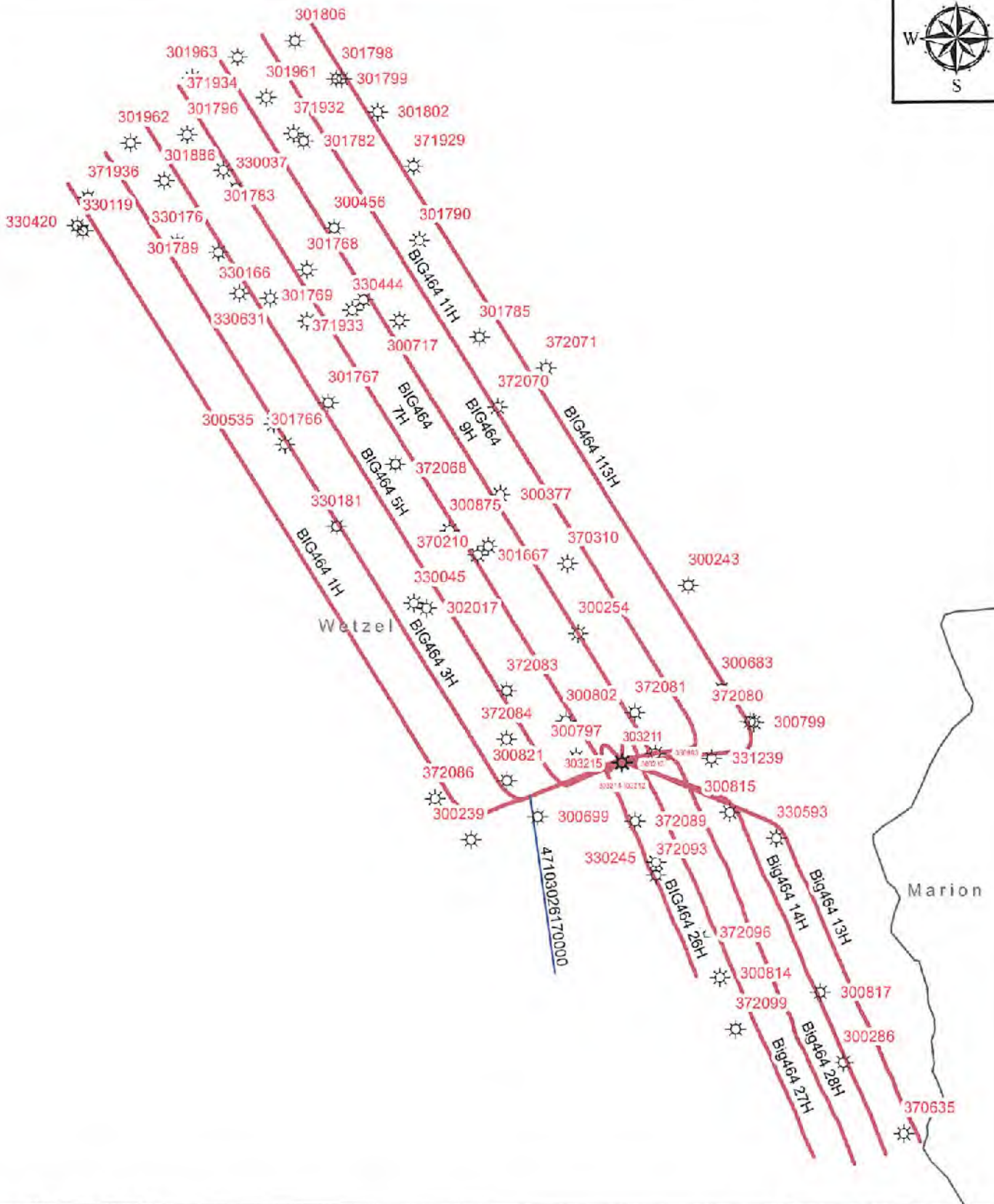
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

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
3. 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**

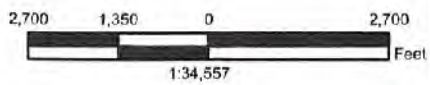
EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.



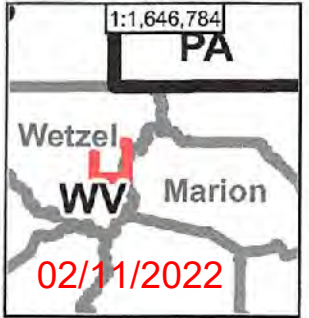
**EQT**  
EQT Corporation  
625 Liberty Avenue  
Pittsburgh, PA 15222

**BIG464**  
Vertical Offsets and  
Foreign Laterals  
within 500'

- Legend**
-  Foreign Offset Wells
  - Foreign Laterals
  - Well Lateral\_FM Formation**
  -  Genesee
  -  Marcellus
  -  Utica



**Disclaimer:**  
This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.

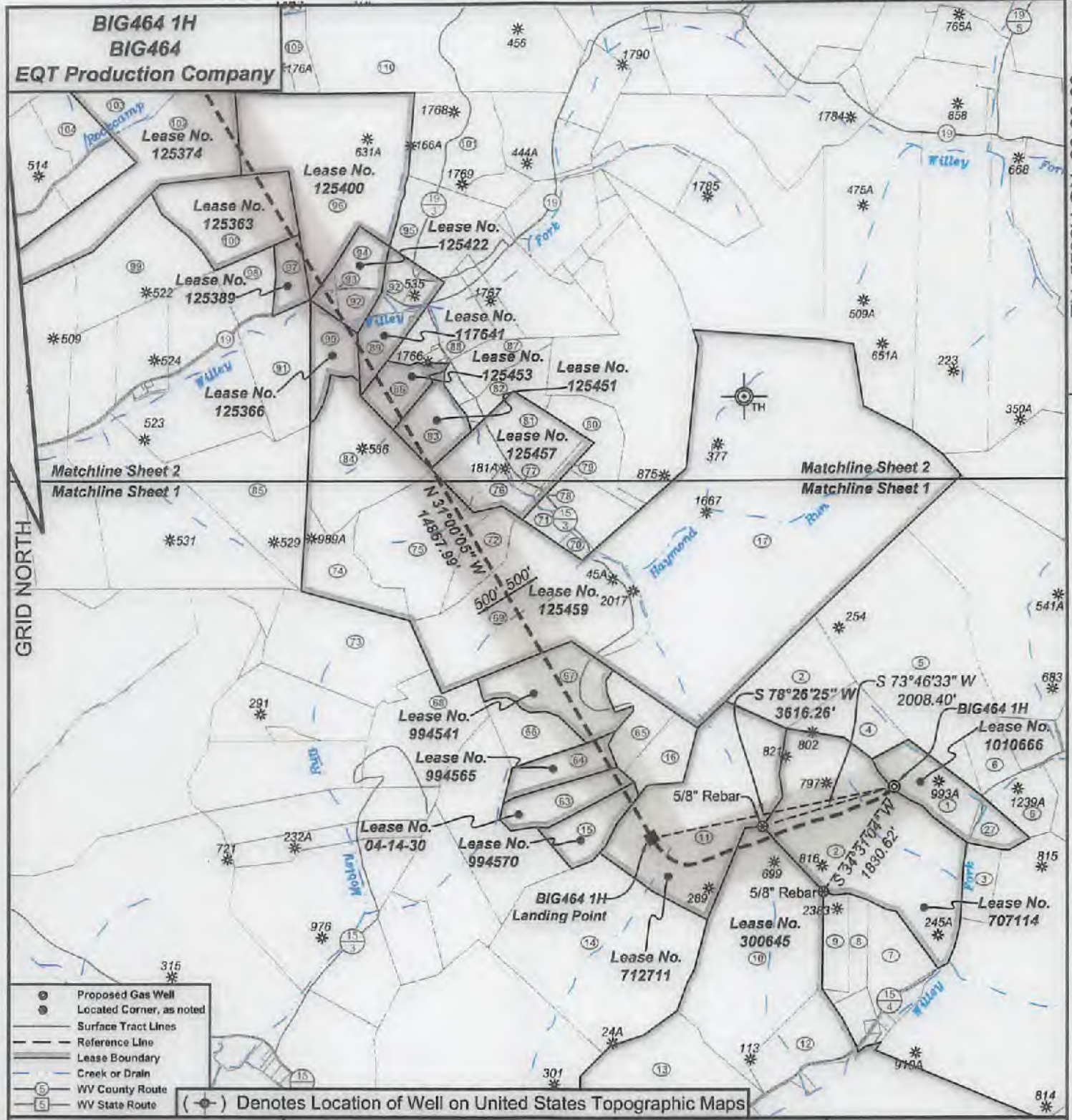




372083	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.57157700	-80.52510300	UNKNOWN	NAD27	0.00	0.00	0.00	
372084	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.56881900	-80.52510300	HOPE NATURAL GAS	NAD27	0.00	0.00	0.00	
372086	Completed Wells	HOPE NATURAL GAS	UNCLASSIFIED	UNCLASSIFIED	39.56548100	-80.53034900	HOPE NATURAL GAS	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	
372093	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.56112700	-80.51423800	UNKNOWN	NAD27	0.00	0.00	0.00	
372096	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.55764400	-80.51105300	UNKNOWN	NAD27	0.00	0.00	0.00	
372099	Completed Wells	UNKNOWN	UNCLASSIFIED	UNCLASSIFIED	39.55241900	-80.50843000	UNKNOWN	NAD27	0.00	0.00	0.00	
Horizontal												
UWI	ACT_STATUS	CURR_OPER	FNL_CLASS	INIT_CLASS	LATITUDE	LONGITUDE	OPER_NAME	DATUM	ELEVATION	TOT_DEPTH	TVD	WELL_NAME
47103026170000	Completed Wells	EQT PRODUCTION CO	DEVELOPMENT WELL-GAS	DEVELOPMENT WELL	39.55563000	-80.52162000	EQT PRODUCTION CO	NAD27	941.00	10761.00	7117.00	

TH: 4712' LAT: 39-35-00

TH: 5702' LON: 80-30-00



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.

*Ben R. Singleton*  
P.S. 2092



FILE NO: 125-16  
DRAWING NO: BIG464 1H  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

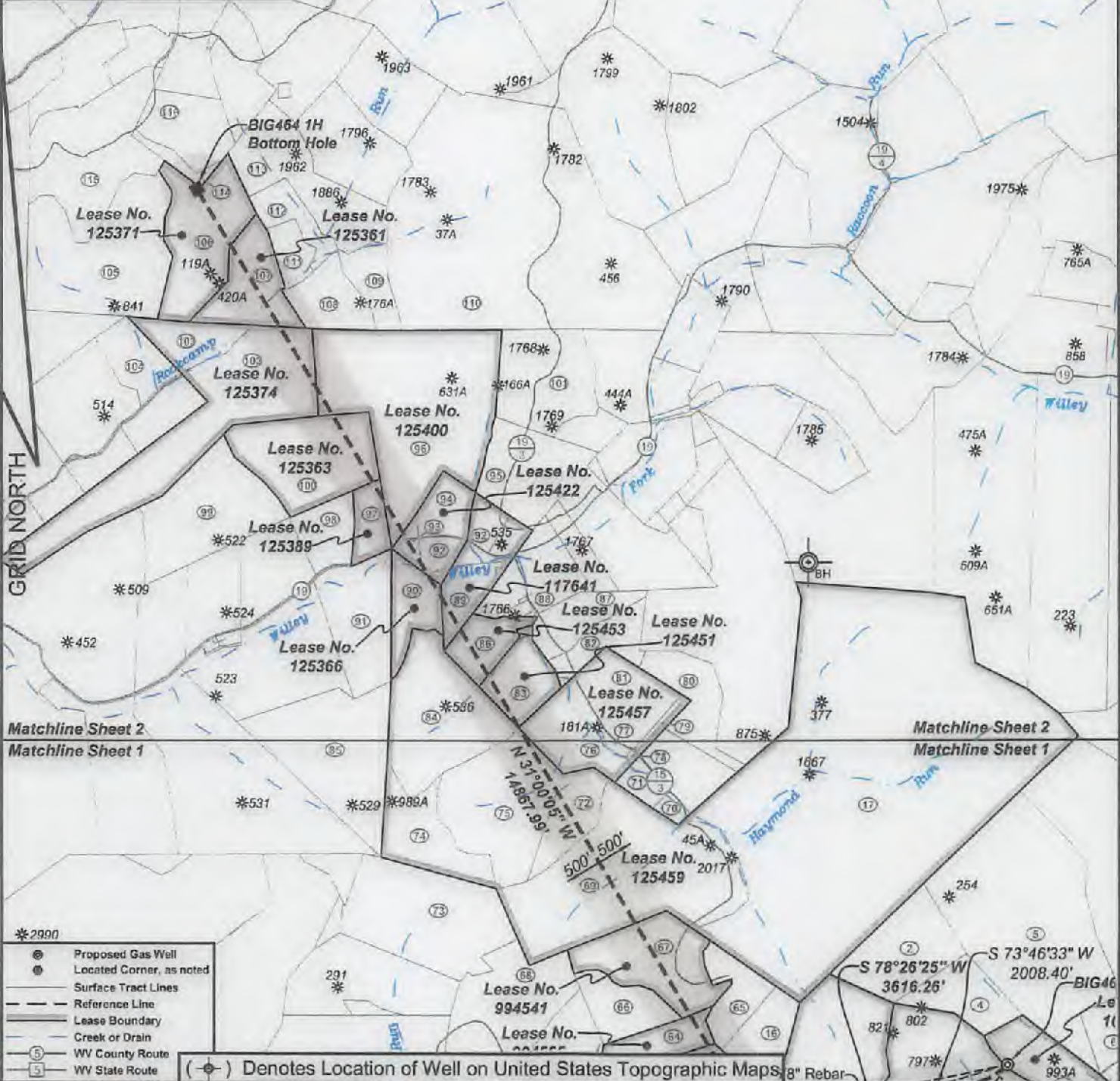
DATE: January 20 20 22  
OPERATOR'S WELL NO.: BIG464 1H  
API WELL NO HOP  
47 103 03431  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1246.8' WATERSHED Willey Fork QUADRANGLE: Big Run  
DISTRICT: Grant COUNTY: Wetzel  
SURFACE OWNER: EQT Production Company ACREAGE: 25.25  
ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32  
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: 7,394'

02/11/2022

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

**BIG464 1H**  
**BIG464**  
**EQT Production Company**



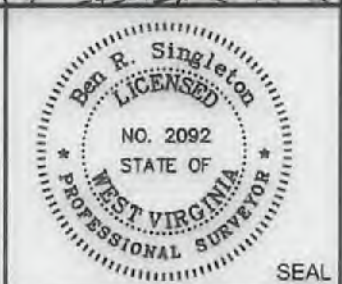
BH: 8989' LON: 80-32-30



*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.*

*Ben R. Singleton*

P.S. 2092



FILE NO: 125-16  
 DRAWING NO: BIG464 1H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: January 20 20 22  
 OPERATOR'S WELL NO.: BIG464 1H  
 API WELL NO **WAD**  
 47 - 103 - 03431  
 STATE COUNTY PERMIT

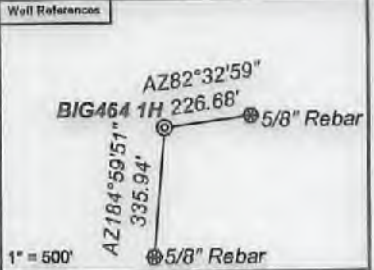
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1246.8' WATERSHED Wiley Fork QUADRANGLE: Big Run  
 DISTRICT: Grant COUNTY: Wetzel  
 SURFACE OWNER: EQT Production Company ACREAGE: 25.25  
 ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32  
 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: 7,394'

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

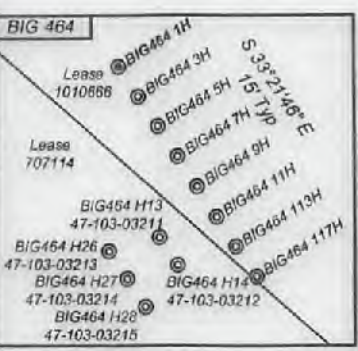
02/11/2022

**BIG464 1H**  
**BIG464**  
**EQT Production Company**

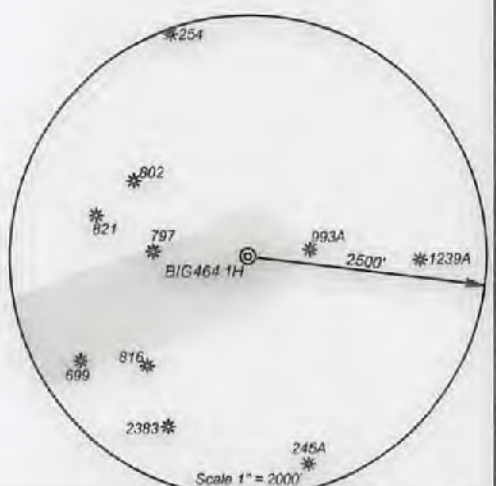
Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	14	34	Wetzel	Grant	EQT Production Company	29.25
2	20	1	Wetzel	Grant	Coastal Forest Resources Company	520.02
3	16	27	Wetzel	Grant	Sweeney Linn Bar Life Estate	10.00
4	14	27	Wetzel	Grant	EQT Production Company	23.00
5	14	26	Wetzel	Grant	EQT Production Company	109.50
6	15	16	Wetzel	Grant	Donald J. D'Lonky	25.00
7	14	45	Wetzel	Grant	Coastal Forest Resources Company	11.00
8	14	44	Wetzel	Grant	Mabel P. Barr	11.06
9	14	43	Wetzel	Grant	Mabel P. Barr	11.01
10	14	42	Wetzel	Grant	Donald J. D'Lonky	111.00
11	14	33	Wetzel	Grant	Alfred H. & Hilma B. Commins	305.00
12	10	8	Wetzel	Grant	Donald J. D'Lonky	26.18
13	10	6	Wetzel	Grant	Donald J. D'Lonky, Jr.	71.60
14	14	40	Wetzel	Grant	Donald J. D'Lonky, Jr.	131.00
15	14	31	Wetzel	Grant	Donald J. D'Lonky, Jr.	10.00
16	14	32	Wetzel	Grant	Mary Jane Byard	13.30
17	14	5	Wetzel	Grant	Coastal Forest Resources Company	332.00
27			Wetzel	Grant	No Tax Map & Parcel Information	
29	14	30	Wetzel	Grant	Equitans LP	20.50
34	14	35	Wetzel	Grant	ET Blue Grass, LLC	17.02
35	14	36	Wetzel	Grant	Mary Jane Byard	14.52
60	14	24	Wetzel	Grant	Equitans LP	18.20
67	14	25	Wetzel	Grant	ET Blue Grass, LLC	15.85
68	14	22	Wetzel	Grant	Equitans LP	51.00
69	14	10	Wetzel	Grant	Coastal Forest Resources Company	139.68
70	14	13	Wetzel	Grant	Coastal Forest Resources Company	2.80
71	14	14	Wetzel	Grant	Gary L. Elaw	21.80
72	14	15.1	Wetzel	Grant	Thomas J. Parks, et al.	19.82
73	14	18	Wetzel	Grant	Jane W. Wysoff	58.70
74	14	10	Wetzel	Grant	Jane W. Wysoff	29.00
75	14	11	Wetzel	Grant	Thomas J. Parks, et al.	54.44
76	14	12	Wetzel	Grant	Thomas J. Parks, et al.	16.00
77	14	3.1	Wetzel	Grant	Ronald L. & Anna P. Elaw	3.45
78	14	11.1	Wetzel	Grant	James W. & Mary E. Yost	5.30
79	14	4	Wetzel	Grant	Thomas C. Willey	3.50
80	14	5	Wetzel	Grant	Dale K. & Sherry Dulliney	21.58
81	14	3	Wetzel	Grant	Thomas C. Willey	34.55
82	0	50	Wetzel	Grant	Jaffrey Willey Life Estate	16.50
83	14	1	Wetzel	Grant	Leonard E. & Edwin C. Rice	21.05
84	14	9	Wetzel	Grant	Leonard E. & Edwin C. Rice	55.00
85	14	8	Wetzel	Grant	Edith R. Coan	80.50
86	0	58	Wetzel	Grant	Leonard E. & Edwin C. Rice	16.50
87	0	59.1	Wetzel	Grant	Clyde R. & Connie L. Fowlow	18.70
88	0	48	Wetzel	Grant	Donald Alan Kennedy	25.80
89	0	45	Wetzel	Grant	Dessaine & Patricia L. Morris	10.55
90	0	55	Wetzel	Grant	Jack L. & Leanna C. Bannette	10.48
91	0	54	Wetzel	Grant	Jack L. & Leanna C. Bannette	17.40
92	0	43	Wetzel	Grant	Norman R. & Vivian L. Deby	14.48
93	0	42	Wetzel	Grant	Jack L. & Leanna C. Bannette	2.80
94	0	44	Wetzel	Grant	Billy L. & Barbara L. Brewer	12.55
95	0	50	Wetzel	Grant	John D. Parks, et al.	73.56
96	0	23	Wetzel	Grant	Stephen D. & Carolyn M. Gertz	119.00
97	0	41	Wetzel	Grant	William Schleicher	11.56
98	0	53	Wetzel	Grant	Norman R. & Vivian L. Deby	33.90
99	0	28	Wetzel	Grant	Sherilyn Snider	54.52
100	0	29	Wetzel	Grant	William & Margaret Schleicher	47.00
101	0	24	Wetzel	Grant	John D. Parks, et al.	40.00
102	0	32	Wetzel	Grant	Joe Willo Pigg Hirs	82.40
103	0	22	Wetzel	Grant	James A. Yoho	17.00
104	0	20	Wetzel	Grant	Mary J. & Hugh D. Byard Hirs	15.00
105	0	15	Wetzel	Grant	John Michael Byard	71.60
106	0	03	Wetzel	Grant	Mary Wright, et al.	45.00
107	0	13	Wetzel	Grant	James A. Yoho	37.00
108	0	17	Wetzel	Grant	Wanda K. Willey	25.08
109	0	16	Wetzel	Grant	W. E. Willey Coats	13.45
110	0	10	Wetzel	Grant	William B. & Pamela Francis	233.37
111	0	15	Wetzel	Grant	Opal Stansbury Estate	8.82
112	0	0	Wetzel	Grant	Leslie Watson	11.30
113	0	0	Wetzel	Grant	James A. Yoho	45.08
114	0	03	Wetzel	Grant	Mary Wright, et al.	1.26
115	0	0	Wetzel	Grant	Wanda L. Byard	80.18
116	0	0	Wetzel	Grant	Mary Wright, et al.	24.00



**Notes:**  
 BIG464 1H coordinates are  
 NAD 27 N: 390,493.54 E: 1,713,381.48  
 NAD 27 Lat: 39.567680 Long: -80.516715  
 NAD 83 UTM N: 4,379,896.63 E: 541,528.39  
 BIG464 1H Landing Point coordinates are  
 NAD 27 N: 389,768.88 E: 1,709,838.57  
 NAD 27 Lat: 39.565580 Long: -80.529252  
 NAD 83 UTM N: 4,379,657.80 E: 540,452.66  
 BIG464 1H Bottom Hole coordinates are  
 NAD 27 N: 402,513.03 E: 1,702,180.65  
 NAD 27 Lat: 39.600322 Long: -80.556945  
 NAD 83 UTM N: 4,383,501.47 E: 538,054.90  
 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.

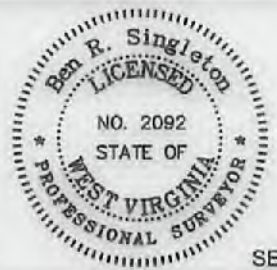


Lease No.	Owner	Acres
707114	Ridgetop Royalties, LLC, et al.	76
300545	Carman Lee Allen, et al.	858
994570	John William Kilcoyne, Jr., et al.	19
04-14-30	Scott Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Cater, deceased	20.50
712711	Barbara Lynne Metheny, et al.	108
994566	Daria Schroeder, et al.	17
994541	Dan Coleman, et al.	35.88
125459	Randel J. Hartman, et al.	693
125457	Kenneth M. Waymen, et al.	55
125451	Lavona Jene Higginbotham	23
125453	Bounty Minerals, LLC	17
117641	Frank W. Watson, Jr., et al.	30
125366	OXY USA Inc., et al.	18
125422	Ridgetop Appalachia, LLC, et al.	23
125400	Robert Barry Myers, Jr., et al.	119
125389	Stone Hill Minerals Holdings, LLC	12
125363	Stone Hill Minerals Holdings, LLC	48
125374	Teresa J. Pigg, et al.	100
125361	Three Rivers Royalty II, LLC, et al.	27
125371	Thomas O. Kiger, et al.	46



*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.*

*Ben R. Singleton*  
P.S. 2092



SEAL

FILE NO: 125-16  
 DRAWING NO: BIG464 1H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: January 20 20 22  
 OPERATOR'S WELL NO.: BIG464 1H  
 API WELL NO: 47-103-03431  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1246.8' WATERSHED: Wiley Fork QUADRANGLE: Big Run  
 DISTRICT: Grant COUNTY: Wetzel  
 SURFACE OWNER: EQT Production Company ACREAGE: 25.25  
 ROYALTY OWNER: Ridgetop Royalties, LLC, et al. LEASE NO: 1010666 ACREAGE: 32  
 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: 7,394'  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
 ADDRESS: 400 Woodcliff Drive Canonsburg, PA 15317 ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330

02/11/2022

**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 Jr.*  
 Its: Project Specialist - Permitting



**WW-6A1 attachment**

			Operator's Well No.	Big464 1H Well	
<u>Lease No.</u>	<u>Grantor, Lessor, etc.</u>		<u>Grantee, Lessee, etc.</u>	<u>Royalty</u>	<u>Book/Page</u>
<u>1010666</u>	<u>Ridgetop Royalties, LLC, et al.</u> Ridgetop Royalties, LLC	32 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 166A/638
<u>707114</u>	<u>Ridgetop Royalties, LLC, et al.</u> W. S. Furbee and Mary Furbee, his wife Carnegie Natural Gas Company Carnegie Production Company	78 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 2A/182 OG 78A/513 WV SOS
<u>300645</u>	<u>Carman Lee Allen, et al.</u> J. M. Allen & Eliza Allen, his wife  Z. T. Francis Clinton D. Greenlee and Clara M. Greenlee, his wife, and Bernard Forst and Jennie Forst, his wife Joseph Hartman, Joseph Hartman, Jr., and Patrick Gallagher, individually and dba Hartman Oil Company South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company	858 ac	Z. T. Francis C. D. Greenlee, Joseph Hartman, B. Forst, Joseph Hartman, Jr., and Patrick Gallagher Joseph Hartman, Joseph Hartman, Jr., and Patrick Gallagher  South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas, Inc. Blazer Energy Corp. Eastern States Oil & Gas, Inc. Eastern States, Inc. Equitable Production-Eastern States, Inc. Equitable Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 39/222  DB 39/248 DB 47/112  DB 79/216 DB 91/8 DB 233/387 OG 66A/69 Corp. Book 13/151 OG 76A/232 Corp. Book 12/253 Corp. Book 12/259 WV SOS WV SOS WV SOS Corp. Book 13/14
<u>712711</u>	<u>Barbara Lynne Metheny, et al.</u> Lee Glover and Bertha Glover, his wife Carnegie Natural Gas Company Carnegie Production Company	108 ac	Carnegie Natural Gas Company Carnegie Production Company EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 20A/493 OG 78A/513 WV SOS

<u>994570</u>	<u>John William Kilcoyne, Jr., et al.</u> John William Kilcoyne a/k/a John W. Kilcoyne and Florence E. Kilcoyne	19 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 148A/914
<u>54-103-04-14-30</u>	<u>Scott Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased</u> Scott Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased	19.04 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	See Permitting Letter attached
<u>994565</u>	<u>Daria Schroeder, et al.</u> Daria Schroeder, f/k/a Daria Bickel, married, dealing in her sole and separate property	17 ac	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 145A/623
<u>994541</u>	<u>Dan Coleman, et al.</u> Dan Coleman	35.88 ac (131 ac)	EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 144A/9
<u>125459</u>	<u>Randel J. Hartman, et al.</u> Virginia Myers and William S. Myers, her husband, et al Equitable Gas Company 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. SWN Exchange Titleholder, LLC SWN Production Company, LLC Statoil USA Onshore Properties, Inc. Antero Exchange Properties LLC Antero Resources Corporation	693 ac	Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties Inc. Statoil USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC SWN Production Company, LLC Antero Exchange Properties LLC Antero Exchange Properties LLC Antero Resources Corporation EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 47A/16 OG 64A/442 OG 72A/368 Corp. 12/622 DB 402/446 OG 97A/578 WV SOS OG 157A/540 OG 158A/801 Corp. 13/296 OG 177A/533 OG 177A/738 Corp. 13/311 OG 227A/932
<u>125457</u>	<u>Kenneth M. Waymen, et al.</u> F. M. Tuttle and Mary E. Tuttle, his wife, et al Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC	55 ac	Equitable Gas Company Columbia Gas Transmission Corporation Columbia Natural Resources, Inc. Chesapeake Appalachia, L.L.C.	"at least 1/8th per WV Code 22-6-8"	OG 52A/437 OG 64A/442 OG 72A/368 DB 402/446

	<p>Columbia Natural Resources, Inc.  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Chesapeake Appalachia, L.L.C.  Statoil USA Onshore Properties, Inc.  SWN Exchange Titleholder, LLC  Statoil USA Onshore Properties, Inc.  Statoil USA Onshore Properties, Inc.  Antero Exchange Properties LLC  Antero Resources Corporation</p>		<p>Columbia Natural Resources, LLC  Statoilhydro USA Onshore Properties Inc.  Statoil USA Onshore Properties, Inc.  SWN Production Company, LLC  SWN Exchange Titleholder, LLC  SWN Production Company, LLC  Antero Exchange Properties LLC  Antero Exchange Properties LLC  Antero Resources Corporation  EQT Production Company</p>	<p>Corp. 12/622  OG 97A/578  WV SOS  OG 157A/540  OG 158A/801  Corp. 13/296  OG 177A/738  OG 177A/738  Corp. 13/311  OG 231A/59</p>
				<p>*at least 1/8th per  WV Code 22-6-8"</p>
<u>125451</u>	<p><u>Lavena Jane Higginbotham</u>  Etta Haught Beckley, widow  Equitable Gas Company  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.  SWN Exchange Titleholder, LLC  SWN Production Company, LLC  Statoil USA Onshore Properties, Inc.  Antero Exchange Properties LLC  Antero Resources Corporation</p>	23 ac	<p>Equitable Gas Company  Columbia Gas Transmission Corporation  Columbia Natural Resources, Inc.  Columbia Natural Resources, LLC  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Statoil USA Onshore Properties, Inc.  SWN Production Company, LLC  SWN Exchange Titleholder, LLC  SWN Production Company, LLC  Antero Exchange Properties LLC  Antero Exchange Properties LLC  Antero Resources Corporation  EQT Production Company</p>	<p>OG 52A/440  OG 64A/442  OG 72A/368  Corp. 12/622  DB 402/446  OG 97A/578  WV SOS  OG 157A/540  OG 158A/801  Corp. 13/296  OG 177A/533  OG 177A/738  Corp. 13/311  OG 231A/ 59</p>
				<p>*at least 1/8th per  WV Code 22-6-8"</p>
<u>125453</u>	<p><u>Bounty Minerals, LLC</u>  Adda M. Sole, widow  Equitable Gas Company  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.  SWN Exchange Titleholder, LLC  SWN Production Company, LLC  Statoil USA Onshore Properties, Inc.  Antero Exchange Properties LLC</p>	17 ac	<p>Equitable Gas Company  Columbia Gas Transmission Corporation  Columbia Natural Resources, Inc.  Columbia Natural Resources, LLC  Chesapeake Appalachia, L.L.C.  Statoilhydro USA Onshore Properties Inc.  Statoil USA Onshore Properties, Inc.  SWN Production Company, LLC  SWN Exchange Titleholder, LLC  SWN Production Company, LLC  Antero Exchange Properties LLC  Antero Exchange Properties LLC  Antero Resources Corporation</p>	<p>OG 52A/428  OG 64A/442  OG 72A/368  Corp. 12/622  DB 402/446  OG 97A/578  WV SOS  OG 157A/540  OG 158A/801  Corp. 13/296  OG 177A/533  OG 177A/738  Corp. 13/311</p>

	Antero Resources Corporation		EQT Production Company	OG 231A/ 59
	<u>Frank W. Watson, Jr., et al.</u>			"at least 1/8th per WV Code 22-6-8"
<u>117641</u>	Roxie Brookover, widow: et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	30 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	47A/145 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
	<u>OXY USA Inc., et al.</u>			"at least 1/8th per WV Code 22-6-8"
<u>125366</u>	Harvey Haught, widower Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	18 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 48A/312 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
	<u>Ridgetop Appalachia, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"
<u>125422</u>	Mildred M. Hunt, widow, et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	23 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/377 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
	<u>Robert Barry Myers, Jr., et al.</u>			"at least 1/8th per WV Code 22-6-8"
<u>125400</u>	Ingrim Myers Jr. and Rosalie Myers, his wife, et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	119 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/284 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81

	<b><u>Stone Hill Minerals Holdings, LLC</u></b>			"at least 1/8th per WV Code 22-6-8"
<b><u>125389</u></b>	F. M. Tuttle and Mary E. Tuttle, his wife; et al Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	12 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/177 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
	<b><u>Stone Hill Minerals Holdings, LLC</u></b>			"at least 1/8th per WV Code 22-6-8"
<b><u>125363</u></b>	Earl L. Tuttle & Opal B. Tuttle, his wife Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	48 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/98 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
	<b><u>Teresa J. Pigg, et al.</u></b>			"at least 1/8th per WV Code 22-6-8"
<b><u>125374</u></b>	Josephine Jolliff Pigg, ET VIR Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	100 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/165 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81
	<b><u>Three Rivers Royalty II, LLC, et al.</u></b>			"at least 1/8th per WV Code 22-6-8"
<b><u>125361</u></b>	A. L. Stoneking, widower Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC and EQT Corporation Equitrans, LP	27 ac	Equitable Gas Company Equitrans, Inc. EQT Capital Corporation Equitable Resources, Inc. Equitable Gas Company, LLC Equitrans, LP EQT Production Company	OG 52A/93 OG 71A/453 Corp. 13/213 Corp. 13/213 Corp. 13/230 Misc. 105/908 OG 131A/81

	<b><u>Thomas O. Kiger, et al.</u></b>			*at least 1/8th per WV Code 22-6-8"
<b><u>125371</u></b>	Alpha Earl Byard and Mary Jane Byard, his wife; et al	46 ac	Equitable Gas Company	OG 57A/125
	Equitable Gas Company		Equitrans, Inc.	OG 71A/453
	Equitrans, Inc.		EQT Capital Corporation	Corp. 13/213
	EQT Capital Corporation		Equitable Resources, Inc.	Corp. 13/213
	Equitable Resources, Inc.		Equitable Gas Company, LLC	Corp. 13/230
	Equitable Gas Company, LLC and EQT Corporation		Equitrans, LP	Misc. 105/908
	Equitrans, LP		EQT Production Company	OG 131A/81

December 1, 2021

WV Department of Environmental Protection  
Attn: Mr. Charles T. Brewer – Assistant Permitting Chief  
601 57th Street, SE  
Charleston, WV 25304

Re: Permitting Letter - Oil and Gas Lease between Scott Carter, acting as Executor of the Estate of Shirley Gay Carter and EQT Production Company

Mr. Brewer:

By this letter, we are advising you that Scott E. Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased and EQT Production Company (“EQT”) have entered into good faith negotiations to execute an Oil and Gas Lease (“Lease”) on or before March 19<sup>th</sup>, 2022 covering certain oil and gas interests owned by the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased, situate in Wetzel County, West Virginia (the “Interests”). The Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased is the sole owner of all rights to develop, extract, produce and market the hydrocarbons from such Interests. Such Interests are identified in Exhibit “A” attached hereto. Subject to the good faith negotiations, and by virtue of the execution of this letter, Scott E. Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased, has agreed to allow EQT to proceed with certain pre-closing operations with respect to the Interests.

Scott E. Carter, acting as Executor of the Estate of Shirley Gay Carter a/k/a Shirley G. Carter, deceased, hereby provides its approval, without objection, for EQT to make regulatory permit applications and, upon receipt of all necessary permits and governmental approvals, to proceed with the development and extraction of the hydrocarbons, including all rights to develop, extract, produce and market the hydrocarbons from the Interests (“Pre-Closing Operations”). Please accept this letter as notice of the agreement by the parties to allow for such Pre-Closing Operations.

The Lease transferring all remaining rights and obligations concerning the Interests will be executed on or before March 19<sup>th</sup>, 2022.

If you have any questions concerning this matter, please contact the undersigned.

Sincerely,

**Estate of Shirley Gay Carter  
a/k/a Shirley G. Carter, deceased**



By: Scott E. Carter

Its: Executor

Email: scottc48@twc.com

02/11/2022

**EQT Production Company**

DocuSigned by:  
*Corey Peck*  
B89B4A94E0C646A...

By: Corey C. Peck  
Its: Authorized Agent  
Email:

**EXHIBIT A**

<b>Grantor</b>	<b>Grantee</b>	<b>Date</b>	<b>County</b>	<b>Recording Info</b>	<b>Instrument</b>	<b>Parcel</b>	<b>Gross</b>
Shirley Carter et al	Equitrans, LP	9/29/2015	Wetzel	Deed Book 446 at page 658	189722	04-14-30	19.04 ac





Stansberry, Wade A &lt;wade.a.stansberry@wv.gov&gt;

**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 &lt;JZavatchan@eqt.com&gt;, Todd &lt;tklaner@eqt.com&gt;, "Shrum, Becky" &lt;bshrum@eqt.com&gt;, Olivia Pishioneri &lt;opishioneri@eqt.com&gt;, Erin Spine &lt;espine@eqt.com&gt;, "Harris, Bryan O" &lt;bryan.o.harris@wv.gov&gt;, Scott Lemley &lt;slemley@wvassessor.com&gt;

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](mailto:Wade.A.Stansberry@wv.gov)

**7 attachments**

-  47-103-03434 - mod.pdf  
1369K
-  47-103-03433 - mod.pdf  
1512K
-  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

02/11/2022