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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)

Tuesday, November 30, 2021  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for BG464 113H  
47-103-03437-00-00

**Lateral Modification**

EQT PRODUCTION COMPANY

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

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

James A. Martin  
Chief

Operator's Well Number: BG464 113H  
Farm Name: EQT PRODUCTION COMPANY  
U.S. WELL NUMBER: 47-103-03437-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 11/30/2021

Promoting a healthy environment.

12/03/2021



November 16, 2021

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

RECEIVED  
Office of Oil and Gas  
NOV 18 2021  
WV Department of  
Environmental Protection

RE: Well Work Permit Modification  
BIG464 113H Well  
Permit Number 47-103-03437  
Grant District, Wetzell County, WV

WVDEP Recipient,

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

- Check in the amount of \$7,500 for the expedited permit fee – please note that \$2,500 of this check is for the Mod fee for WMP-01898 (Elliott Pad)
- 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 remove the backbuild from the previously permitted lateral. A modification to the Water Management Plan has also been submitted electronically to Dawn Newell via e-mail.

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

CK#  
0000590502  
\$7500<sup>00</sup>  
10/29/21

12/03/2021

**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: 113H 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  Oil  Underground Storage

Other \_\_\_\_\_

(b) If Gas Shallow  Deep

Horizontal

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: 7,394'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 8,751

11) Proposed Horizontal Leg Length: 159'

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

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

WW-6B  
(04/15)

API NO. 47- 103 - 03437  
 OPERATOR WELL NO. 113H  
 Well Pad Name: BIG464

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                     | 8751                       | 8751                         | 500' above intermediate casing |
| Tubing       |           |             |       |                        |                            |                              |                                |
| Liners       |           |             |       |                        |                            |                              |                                |

*Bryan Harris 11/15/21*

| 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: |  |  |  |  |

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.

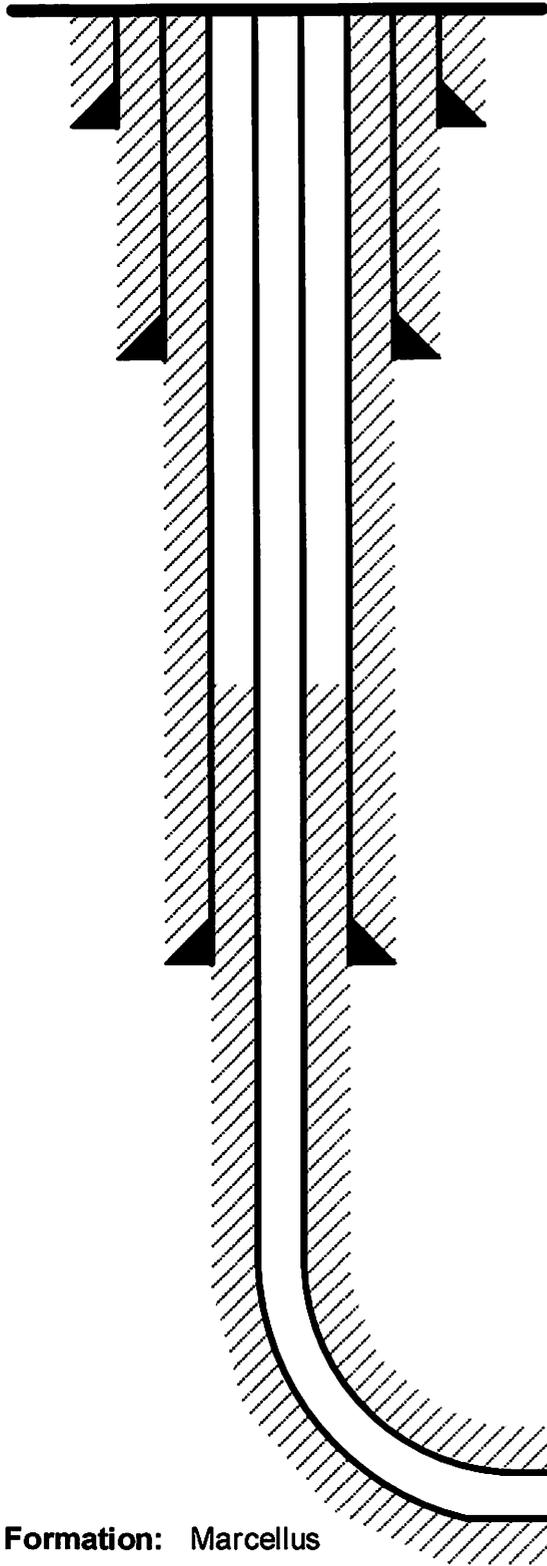
\*Note: Attach additional sheets as needed.

**EQT Production**

**Wellbore Diagram**

Well: BIG 464 113H  
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 @ 8,751' MD / 7,394' TVD**  
5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

**Formation: Marcellus**

**WEST VIRGINIA GEOLOGICAL PROGNOSIS**

Horizontal Well  
**BIG464**  
 S-000124

**Drilling Objectives:** Marcellus  
**County:** Wetzel  
**Quad:** Big Run  
**Elevation:** 1259 KB 1246 GL

TVD: 7399  
 Recommended LP to TD: #N/A

**Recommended Azimuth** #N/A Degrees

**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 @ 109,184,432, , ,                                      | 69     | 73              |
| Waynesburg Coal      | 556         | 559 Coal                    |           |  | 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             |           |  |        |                 |
| 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              |           |  |        |                 |
| <b>-Lateral Zone</b> | <b>7399</b> |                             |           |  |        |                 |
| Cherry Valley        | 7409        | 7413 Limestone              |           |  |        |                 |
| Onondaga             | 7429        | Limestone                   |           |  |        |                 |

|                               |          |
|-------------------------------|----------|
| Target Thickness              | 51 feet  |
| Max Anticipated Rock Pressure | 2620 PSI |

**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.

**LATERAL DRILLING TOLERANCES**

**Mapview - Lateral:** Deviate as little as possible to the left or right of the planned wellbore.  
**Mapview - TD:** DO NOT EXTEND beyond recommended wellbore to avoid lease line.

**RECOMMENDED CASING 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 the Big Injun formation  
**Production:** CSG OD 5 1/2 CSG DEPTH: @ TD

**EQT Production**  
**Hydraulic Fracturing Monitoring Plan**  
**Pad ID: BIG464**  
**County: Wetzel**

**September 21, 2021**

**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 & 117H.

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
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.

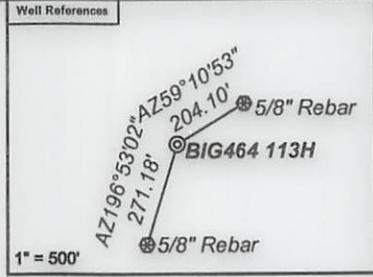




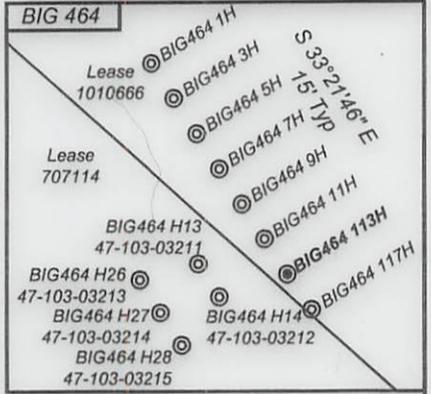


**BIG464 113H**  
**BIG464**  
**EQT Production Company**

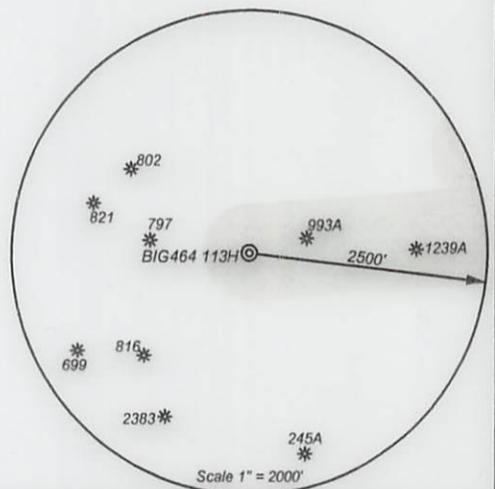
| Tract I.D. | Tax Map No. | Parcel No. | County | District | Surface Tract Owner                | Acres  |
|------------|-------------|------------|--------|----------|------------------------------------|--------|
| 1          | 14          | 34         | Wetzel | Grant    | EQT Production Company             | 25.25  |
| 2          | 20          | 1          | Wetzel | Grant    | Coastal Forest Resources Company   | 520.00 |
| 3          | 15          | 27         | Wetzel | Grant    | Beverly Lynn Barr Life Estate      | 10.00  |
| 4          | 14          | 27         | Wetzel | Grant    | EQT Production Company             | 22.00  |
| 5          | 14          | 20         | Wetzel | Grant    | EQT Production Company             | 128.50 |
| 8          | 15          | 16         | Wetzel | Grant    | Donald J. D'Lusky                  | 25.00  |
| 17         | 14          | 6          | Wetzel | Grant    | Coastal Forest Resources Company   | 332.90 |
| 18         | 15          | 18         | Wetzel | Grant    | Donald J. D'Lusky                  | 39.50  |
| 19         | 15          | 12         | Wetzel | Grant    | William Bowers & Donald J. D'Lusky | 147.50 |
| 21         | 15          | 29         | Wetzel | Grant    | Terry Phillips, et al.             | 40.00  |
| 22         | 15          | 18.1       | Wetzel | Grant    | Donald J. & Jane A. D'Lusky        | 29.80  |
| 26         | 15          | 13         | Wetzel | Grant    | Donald W. & Dianna White           | 40.00  |
| 27         |             |            | Wetzel | Grant    | No Tax Map & Parcel Information    |        |



**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 27 N: 391,458.08 E: 1,715,823.09  
 NAD 27 Lat: 39.570403 Long: -80.508093  
 NAD 83 UTM N: 4,380,202.92 E: 542,267.38  
 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.

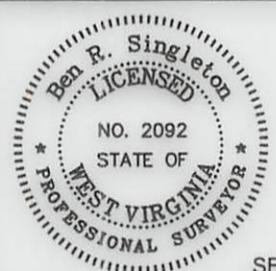


| Lease No. | Owner                           | Acres |
|-----------|---------------------------------|-------|
| 707114    | Ridgetop Royalties, LLC, et al. | 78    |
| 712204    | Janice E. Nolan, et al.         | 120   |
| 1010668   | Ridgetop Royalties, LLC, et al. | 25    |
| 704100    | Piney Holdings, Inc., et al.    | 70    |



*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 113H  
 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: November 12 20 21  
 OPERATOR'S WELL NO.: BIG464 113H  
 API WELL NO. ~~1100~~  
 47 - 103 - 03437  
 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

**12/03/2021**

**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 DocuSigned by:  
*John Zavatchan Jr*

Its: Project Specialist - Permitting 0D4C96A60D4649E...

| Lease No.      | Grantor, Lessor, etc.   | Operator's Well No. | Grantee, Lessee, etc.   | Royalty                                | Book/Page                                      |
|----------------|---|---------------------|---|--|--|
| <u>1010666</u> | <u>Ridgetop Royalties, LLC, et al.</u><br>Ridgetop Royalties, LLC   | 32 ac               | EQT Production Company  | "at least 1/8th per<br>WV Code 22-6-8" | OG 166A/638                                    |
| <u>707114</u>  | <u>Ridgetop Royalties, LLC, et al.</u><br>W. S. Furbee and Mary Furbee, his wife<br>Carnegie Natural Gas Company<br>Carnegie Production Company   | 78 ac               | Carnegie Natural Gas Company<br>Carnegie Production Company<br>EQT Production Company                                   | "at least 1/8th per<br>WV Code 22-6-8" | OG 2A/182<br>OG 78A/513<br>WV SOS              |
| <u>712204</u>  | <u>Janice E. Nolan, et al.</u><br>T. J. Glover, single, and Daniel Glover, single<br>Carnegie Natural Gas Company<br>Carnegie Production Company  | 120 ac              | Carnegie Natural Gas Company<br>Carnegie Production Company<br>EQT Production Company                                   | "at least 1/8th per<br>WV Code 22-6-8" | OG 19A/380<br>OG 78A/513<br>WV SOS             |
| <u>1010668</u> | <u>Ridgetop Royalties, LLC et al.</u><br>Ridgetop Royalties, LLC  | 25 ac               | EQT Production Company  | "at least 1/8th per<br>WV Code 22-6-8" | OG 248A/272                                    |
| <u>704100</u>  | <u>Piney Holdings, Inc., et al.</u><br>B. C. Merrifield and J. M. V. Merrifield, her husband<br>J. E. Carnahan and H. L. Smith<br>Carnegie Natural Gas Company<br>Carnegie Production Company | 70 ac               | J. E. Carnahan and H. L. Smith<br>Carnegie Natural Gas Company<br>Carnegie Production Company<br>EQT Production Company | "at least 1/8th per<br>WV Code 22-6-8" | DB 96/349<br>DB 96/349<br>OG 78A/513<br>WV SOS |



# Business Entity Details

## Main

|                              |                     |                  |                             |            |
|------------------------------|---------------------|------------------|-----------------------------|------------|
| Name: EQT PRODUCTION COMPANY |                     |                  | Organization Number: 199814 |            |
| Type: C                      | Sec Type:           | City: PITTSBURGH | Class: P                    | Ch Type: F |
| Eff Date: 4/19/2001          | Fil Date: 4/19/2001 | Term Date:       | Term Reason:                | AW/Term:   |
| CH County:                   | Ch State: PA        | Bus Purp: 2111   | Ex Acres:                   | Term Yrs:  |
| Auth Shrs:                   | Cap Stck:           | Status: Active   | Par Val:                    | MGMT:      |

## Addresses

|                            |                              |                                     |                             |                  |           |                |
|----------------------------|------------------------------|-------------------------------------|-----------------------------|------------------|-----------|----------------|
| Principal Office Address:  | Name:                        | Addr1: 625 LIBERTY AVENUE           | Addr2: SUITE 1700           | City: PITTSBURGH | State: PA | Zip: 15222     |
| Local Office Address:      | Name:                        | Addr1: CT CORPORATION SYSTEM        | Addr2: 1627 QUARRIER STREET | City: CHARLESTON | State: WV | Zip: 25311     |
| Notice of Process Address: | Name: C T CORPORATION SYSTEM | Addr1: 5098 WASHINGTON ST W STE 407 | Addr2:                      | City: CHARLESTON | State: WV | Zip: 253131561 |
| Mailing Address:           | Name:                        | Addr1: 625 LIBERTY AVENUE           | Addr2: SUITE 1700           | City: PITTSBURGH | State: PA | Zip: 15222     |
| Mailing Address:           | Name:                        | Addr1: PO BOX 2347                  | Addr2:                      | City: CHARLESTON | State: WV | Zip: 25328     |

## Officers

|                 |                            |                                       |                   |                  |           |            |
|-----------------|----------------------------|---------------------------------------|-------------------|------------------|-----------|------------|
| President:      | Name: TOBY Z. RICE         | Addr1: 625 LIBERTY AVENUE, SUITE 1700 | Addr2:            | City: PITTSBURGH | State: PA | Zip: 15222 |
| Vice-President: | Name: J.E.B. BOLEN         | Addr1: 625 LIBERTY AVENUE, SUITE 1700 | Addr2:            | City: PITTSBURGH | State: PA | Zip: 15222 |
| Secretary:      | Name: TIMOTHY C. LULICH    | Addr1: 625 LIBERTY AVENUE, SUITE 1700 | Addr2:            | City: PITTSBURGH | State: PA | Zip: 15222 |
| Treasurer:      | Name: DANIEL A. GREENBLATT | Addr1: 625 LIBERTY AVENUE             | Addr2: SUITE 1700 | City: PITTSBURGH | State: PA | Zip: 15222 |

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|           |                      |                           |                   |                  |           |            |
|-----------|----------------------|---------------------------|-------------------|------------------|-----------|------------|
| Director: | Name: TOBY Z. RICE   | Addr1: 625 LIBERTY AVENUE | Addr2: SUITE 1700 | City: PITTSBURGH | State: PA | Zip: 15222 |
| Director: | Name: DAVID M. KHANI | Addr1: 625 LIBERTY AVENUE | Addr2: SUITE 1700 | City: PITTSBURGH | State: PA | Zip: 15222 |

### DBAs

| Eff Date | DBA Type | DBA Name                           | Term Date |
|----------|----------|------------------------------------|-----------|
| 4/9/2009 | TN       | EQUITABLE PRODUCTION COMPANY       |           |
| 4/9/2009 | TN       | CARNEGIE PRODUCTION COMPANY        |           |
| 4/9/2009 | TN       | EASTERN STATES OIL & GAS INC.      |           |
| 4/9/2009 | TN       | EQUITABLE RESOURCES ENERGY COMPANY |           |

### Names

| Change Date | Old Name                     |
|-------------|------------------------------|
| 4/3/2009    | EQUITABLE PRODUCTION COMPANY |

### Mergers

| Merger Date | Merged                                      | Mer St/Prov | Survived                     | Surv St/Prov |
|-------------|---|-------------|------------------------------|--------------|
| 11/8/2011   | APPALACHIAN NATURAL GAS TRUST               | PA          | EQT PRODUCTION COMPANY       | PA           |
| 6/28/2001   | EQUITABLE PRODUCTION - EASTERN STATES, INC. | DE          | EQUITABLE PRODUCTION COMPANY | PA           |
| 4/19/2001   | EQUITABLE PRODUCTION COMPANY                | WV          | EQUITABLE PRODUCTION COMPANY | PA           |

### Subsidiaries

No Records Found.

### Amendments

| Amendment Date | Amendment   |
|----------------|---|
| 11/8/2011      | MERGER: MERGING APPALACHIAN NATURAL GAS TRUST, A QUALIFIED PA BUSINESS TRUST WITH AND INTO EQT PRODUCTION COMPANY , A QUALIFIED PA CORPORATION, |

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|           |  |
|-----------|--|
|           | THE SURVIVOR   |
| 4/3/2009  | NAME CHANGE: FROM EQUITABLE PRODUCTION COMPANY   |
| 6/28/2001 | MERGER: MERGING EQUITABLE PRODUCTION - EASTERN STATES, INC., A QUALIFIED DE CORPORATION WITH AND INTO EQUITABLE PRODUCTION COMPANY, A QUALIFIED PA CORPORATION, THE SURVIVOR |
| 4/19/2001 | MERGER: MERGING EQUITABLE PRODUCTION COMPANY, A QUALIFIED WV CORPORATION WITH AND INTO EQUITABLE PRODUCTION COMPANY, A QUALIFIED PA CORPORATION, THE SURVIVOR                |

## Dissolutions

No Records Found.

## Annual Reports

| Filing For | Date Filed |
|------------|------------|
| 20170      | 7/12/2016  |
| 2021       | 9/21/2021  |
| 2020       | 6/30/2020  |
| 2019       | 6/30/2019  |
| 2018       | 6/29/2018  |
| 2017       | 6/29/2017  |
| 2016       | 6/26/2015  |
| 2015       | 6/27/2014  |
| 2014       | 6/27/2013  |
| 2013       | 6/28/2012  |
| 2012       | 6/30/2011  |
| 2011       | 6/24/2010  |
| 2010       | 7/13/2009  |
| 2009       | 8/5/2008   |
| 2008       | 11/13/2007 |
| 2007       | 9/7/2006   |
| 2006       | 9/20/2005  |
| 2005       | 9/23/2004  |
| 2004       | 4/1/2004   |
| 2003       | 5/21/2003  |

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

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**Modification Horizontal H6A Well Work Permit (API: 47-103-03437)**

1 message

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

Tue, Nov 30, 2021 at 2:36 PM

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

Corrected Subject Line

I have attached a copy of the newly issued well [permit](#) numbers:

47-103-03437 - BIG464 113H

This will serve as your copy.

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)**

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**47-103-03437 - mod.pdf**  
3158K

**12/03/2021**