

#### 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

Monday, April 8, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re:

Permit approval for VANDERBILT 10H

47-049-02538-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450

James A. Martin

Operator's Well Number: VANDERBILT 10H

Farm Name: LARRY AND TRISHA HIGGIN

U.S. WELL NUMBER: 47-049-02538-00-00

Horizontal 6A New Drill

Date Issued: 4/8/2024

Promoting a healthy environment.

API Number: 47-049-02538

## PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE).
   Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief
  or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

| API NO. 47-           | 0_ | 4    | 9      | 0   | 2 | 5 | 3 | 8 |
|-----------------------|----|------|--------|-----|---|---|---|---|
| OPERATOR WELL NO. 10H |    |      |        |     |   |   |   |   |
| Pad Na الم            | me | • Va | nderbi | ilt |   |   |   |   |

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

| 1) Well Operator: EQT F                                | Production Con    | npany     | 306686               | Marion          | Mannington   | Glover Gap                   |
|--|-------------------|-----------|----------------------|-----------------|--------------|------------------------------|
|  |                   |           | Operator ID          | County          | District     | Quadrangle                   |
| 2) Operator's Well Number                              | er: 10H           |           | Well Pad             | Name: Vande     | erbilt       |                              |
| 3) Farm Name/Surface Ov                                | wner: EQT Produ   | ction Cor | pany Public Roa      | d Access: CR-   | 1            |                              |
| 4) Elevation, current ground                           | nd: 1,357' (bui   | ilt) Ele  | evation, proposed    | post-constructi | on: 1,357' ( | built)                       |
| 5) Well Type (a) Gas<br>Other                          | <u>X</u>          | Oil       | Unde                 | erground Storag | ge           |                              |
| (b)If Gas  |                   | x<br>x    | Deep                 |                 |              | Office RECEIVED of Oil and G |
| 6) Existing Pad: Yes or N                              | o Yes             |           |                      | <u>-</u>        |              | FEB 23 2024                  |
| 7) Proposed Target Forma<br>Marcellus, 7,735', 56'     |                   | ), Antic  | ipated Thickness a   | and Expected P  | ressure(s):  | Environmental Protection     |
| 8) Proposed Total Vertica                              | l Depth: 7,735    |           |                      |                 |              |                              |
| 9) Formation at Total Ver                              |                   | arcellus  |                      |                 |              |                              |
| 10) Proposed Total Measu                               | ured Depth: 11    | ,040'     |                      |                 |              |                              |
| 11) Proposed Horizontal 1                              | Leg Length: 2,    | 543'      |                      |                 |              |                              |
| 12) Approximate Fresh W                                | Vater Strata Dept | ths:      | 253', 504'           |                 |              |                              |
| 13) Method to Determine<br>14) Approximate Saltwate    |                   | epths:    | Offset Wells - 049-0 | 1784, 049-3059  | 3, 049-3023  | 0                            |
| 15) Approximate Coal Se                                | am Depths: 1,1    | 81'-1,18  | 8'                   |                 |              |                              |
| 16) Approximate Depth to                               |                   |           |                      | N/A             |              |                              |
| 17) Does Proposed well l<br>directly overlying or adja |                   |           | ms<br>Yes X          | No              | )            |                              |
| (a) If Yes, provide Mind                               | e Info: Name:     | Harris    | son County Mine      |                 |              |                              |
| · -  | Depth:            | 1,181     | '-1,188'             |                 |              |                              |
|  | Seam:             | Pittsb    |                      |                 |              |                              |
|  | Owner:            | Harri     | son County Coal Re   | esources, Inc.  |              |                              |

WW-6B (04/15)

| API NO. 47           |            |
|----------------------|------------|
| <b>OPERATOR WELL</b> | NO         |
| Well Pad Name:       | Vanderbilt |

#### 18)

#### CASING AND TUBING PROGRAM

| TYPE         | Size<br>(in) | New<br>or<br>Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For<br>Drilling (ft) | INTERVALS:<br>Left in Well<br>(ft) | CEMENT:<br>Fill-up<br>(Cu. Ft.)/CTS |
|--------------|--------------|-------------------|-------|------------------------|-------------------------------|------------------------------------|-------------------------------------|
| Conductor    | 26           | New               | A252  | 85.6                   | 53                            | 53                                 | 45 ft^3 / CTS                       |
| Fresh Water  | 13 3/8       | New               | J-55  | 54.5                   | 1238                          | 1238                               | 1135 ft^3 / CTS                     |
| Coal         |              |                   |       |                        |                               |                                    |                                     |
| Intermediate | 9 5/8        | New               | J-55  | 36                     | 2685                          | 2685                               | 1035 ft^3 / CTS                     |
| Production   | 6            | New               | P-110 | 24                     | 11040                         | 11040                              | 500' above intermediate casing      |
| Tubing       |              |                   |       |                        |                               |                                    |                                     |
| Liners       |              |                   |       |                        |                               |                                    |                                     |

| TYPE         | Size (in) | Wellbore<br>Diameter (in) | Wall<br>Thickness<br>(in) | Burst Pressure<br>(psi) | Anticipated Max. Internal Pressure (psi) | Cement<br>Type | Cement Yield (cu. ft./k) |
|--------------|-----------|---------------------------|---------------------------|-------------------------|--|----------------|--------------------------|
| Conductor    | 26        | 30                        | 0.312                     | 1000                    | 18                                       | Class A/L      | 1.04 - 1.20              |
| Fresh Water  | 13 3/8    | 17 1/2                    | 0.380                     | 2730                    | 2184                                     | Class A/L      | 1.04 - 1.20              |
| Coal         |           |                           |                           |                         |  |                |                          |
| Intermediate | 9 5/8     | 12 3/8 - 12 1/4           | 0.352                     | 3520                    | 2816                                     | Class A/H/L    | 1.04 - 1.20              |
| Production   | 6         | 8 3/4 - 8 1/2             | 0.400                     | 14580                   | 11664                                    | Class A/H/L    | 1.04 - 2.10              |
| Tubing       |           |                           |                           |                         |  |                |                          |
| Liners       |           |                           |                           |                         |  |                |                          |

RECEIVED 2/28/24
Diffice of Oil and Gas

#### **PACKERS**

FEB 2 3 2024

| Kind:       |  | Environme | ntal Protection |
|-------------|--|-----------|-----------------|
| Sizes:      |  |           |                 |
| Depths Set: |  |           |                 |

WW-6B (10/14)

### API NO.447 0 4.9 0 2 5 3 8

OPERATOR WELL NO. 10H Well Pad Name: \_Vanderbilt

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): 56.80 acres (built)
- 22) Area to be disturbed for well pad only, less access road (acres): 8.44 acres (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 other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

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

Conductor: Class A no additives

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. If applicable: Gas Migration Control Additive, Cement Retarder Intermediate: Calcium Chloride. Used to speed the setting of cement slurries. It applicable. Gas Migration. Setting of cement slurries. Sett

WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

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

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

#### **EQT Production**

Hydraulic Fracturing Monitoring Plan

Pad ID: Vanderbilt

County: Marion

Office of Oil and Gas

FEB 2 3 2024

WV Department of Environmental Protection

February 5, 2024

#### **Purpose**

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marion County, WV prior to hydraulic fracturing at the following EQT wells on the Vanderbilt pad: 2H, 4H, 6H, 8H and 10H.

Due to the requirements under 35CSR8 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 the timeline, as well as any issues that may arise during fracturing.

FED. Gas

#### **Communications with Well Operators** 1.

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

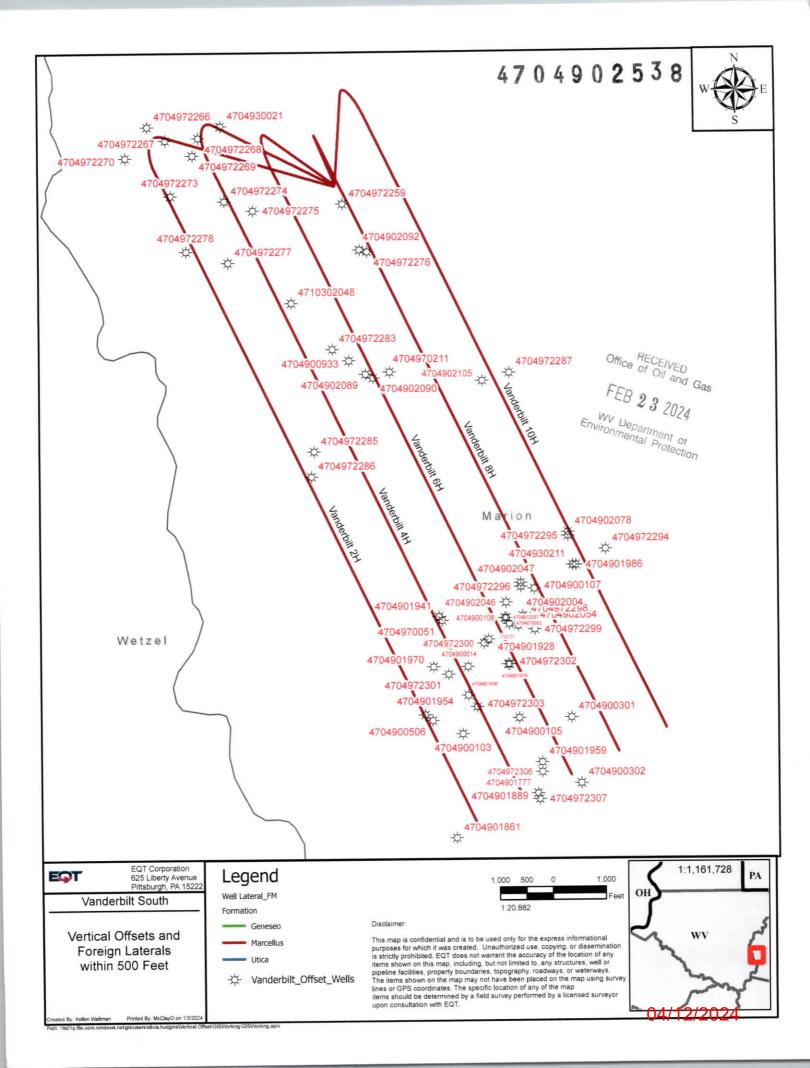
EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

- Inspect their surface equipment prior to fracturing to establish integrity and establish pre-1. frac well conditions
- Observe wells closely during and after fracturing and monitor for abnormal increases in 2. water, gas or pressure
- Inspect or install master valves or other necessary equipment for wellhead integrity capable 3. of a pressure recommended by EQT
- Notify the OOG and EQT if any changes in water, gas production, pressure, or other 4. 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.



|                          |                 |  |                           | CINSMOIT.                    | InitialOpe   | Latitude                | t moditude                | ElevationG Elevation | CMD. FF    | TVD: FT: 1044 - 944 WellName                                  | WellSymbol "                             |
|--------------------------|-----------------|--|---------------------------|------------------------------|--|-------------------------|---------------------------|----------------------|------------|---|--|
| APL LIME UN              | APLUWL12        |  | EN/WellSta                | <b>ENVWellTyp</b> :<br>WATER | CONSOLIDATION COAL COMPANY                               | 39.524593               | -80,463949                | 1179 118             |            | 3130 CUNNINGHAM, W N 6  | WATER-P & A                              |
| 4704900108               | 47-049-00108-00 | CONSOLIDATION COAL COMPANY                               |                           | UNREPORTED                   |  | 39.521722               | -80.467699                |                      | 0          | O ORA HUEY  | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72301-00 |  |                           | UNREPORTED                   |  | 39 524625               | -80.463764                |                      | 0 0        | 0 ORA HUEY  | UNREPORTED-UNREPORTED                    |
| 4704972297               | 47-049-72297-00 | (N/A)  |                           | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.543692               | -80.473277                | 1109 111             | в 0        |   | OTHER-P & A                              |
| 4704902092               | 47-049-02092-00 |  |                           | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39,516031               | -80.458945                | 1195 120             |            |   |  |
| 4704900302               | 47-049-00302-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | GAS                          | CONSOLIDATION COAL COMPANY                               | 39.519374               | -80.463039                | 1252 126             | 1 3188     |   |  |
| 4704900105               | 47-049-00105-00 | CONSOLIDATION COAL COMPANY<br>CONSOLIDATION COAL COMPANY |                           | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.54099                | -80.477871                | 1375 138             |            | 0 CONSOLIDATION COAL 6387                                     | OTHER-P & A                              |
| 4/10302048               | 47-103-02040-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.513235               | -80.467296                | 1104 111             |            |   | OTHER-P & A                              |
|                          | 47-049-72277-00 |  |                           | UNREPORTED                   | (N/A)  | 39.543069               | -80.482123                | 1170                 | 0 0        |   | UNREPORTED-UNREPORTED                    |
| 4704972277<br>4704901978 | 47-049-01978-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.522208               | -80.46365                 | 1077 108             |            |   | OTHER-P & A                              |
| 4704901377               | 47-049-01777-0D | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.515485               | -80.461751                | 1195 120             |            |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72278-00 |  | UNREPORTED                | UNREPORTED                   | ) (N/A)  | 39.54365                | -80.484933                | . ,                  | 0<br>0 0   |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72270-00 |  | UNREPORTED                | UNREPORTED                   |  | 39.548584               | -80.488867                |                      | 0 0<br>0 0 |   | UNREPORTED-UNREPORTED                    |
| 4704977269               | 47-049-72269-00 | (N/A)  | UNREPORTED                | UNREPORTED                   |  | 39.548729               | -80.484371<br>-80.468068  | 1550                 | 0 0        |   | UNREPORTED-UNREPORTED                    |
| 4704970051               | 47-049-70051-00 | SOUTH PENN OIL (S. PENN NAT. GAS                         | ) UNREPORTED              |                              | SOUTH PENN OIL (S PENN NAT GAS)                          | 39.524495<br>39.546262  | -80.48231                 |                      | 0 0        |   | UNREPORTED-UNREPORTED                    |
| 4704972274               | 47-049-72274-00 | (N/A)  | UNREPORTED                | UNREPORTED                   |  | 39.532026               | -80.47669                 |                      | 0 0        | • •   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72286-00 |  | UNREPORTED                | UNREPORTEC                   |  | 39.532020               | -80.461705                |                      | o o        |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72307-00 |  | UNREPORTED                | UNREPORTED                   | J (N/A)<br>(N/A)   | 39.52435                | -80.463574                |                      | o o        |   | OIL-COMPLETED                            |
|                          | 47-049-70052-00 |  | COMPLETED                 | OIL                          | CONSOLIDATION COAL COMPANY                               | 39.519402               | -80.459493                |                      | 3 2341     |   | OTHER-P & A                              |
|                          |                 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER<br>OTHER               | CONSOLIDATION COAL COMPANY                               | 39.52421                | -80,462996                |                      |            |   | OTHER-P & A                              |
|                          |                 | CONSOLIDATION COAL COMPANY                               | P&A<br>P&A                | WATER                        | CONSOLIDATION COAL COMPANY                               | 39.518589               | -80.466793                |                      |            | 3369 DEBERRY, EDMOND 5425                                     | WATER-P & A                              |
| 4704900103               | 47-049-00103-00 | CONSOLIDATION COAL COMPANY                               | P&A<br>P&A                | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.52208                | -80.468651                |                      | 4 0        | 0 MARION COUNTY COMMISSION 5431                               |  |
|                          |                 | CONSOLIDATION COAL COMPANY                               | COMPLETED                 |                              | SOUTHERN OIL   | 39.55021                | -80.482493                |                      | 0 0        | 2392 JOHN CAMPBELL 3  | UNREPORTED-COMPLETED                     |
|                          |                 | SOUTHERN OIL, LLC  | UNREPORTED                | UNREPORTE                    |  | 39.538558               | -80.475192                |                      | 0 0        | 0 S R ARNETT  | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72283-00 | CARNEGIE NATURAL GAS CO                                  | UNREPORTED                |                              | CARNEGIE NATURAL GAS                                     | 39.52725                | -80.459268                | 1354                 | 0 0        |   | UNREPORTED-UNREPORTED                    |
| 4704930211               | 47-049-30211-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.538034               | -80.474063                | 1163 117             |            | · · · · · · · · · · · · · · · · · · ·                         | OTHER-P & A                              |
|                          | 47-049-72287-00 |  | UNREPORTED                |                              | NORRIS PETROLEUM   | 39.537251               | -80.463389                |                      | 0 0        |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72276-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.5436493              | -80.4727563               |                      | 0 0        |   | UNREPORTED-UNREPORTED                    |
| 4704972270               | 47-049-72210-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.519611               | -80,469255                |                      |            |   | OTHER-P & A                              |
| 4704902105               | 47-049-02105-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.53695                | -80.465168                |                      |            |   | OTHER-P & A<br>OTHER-P & A               |
| 4704902090               | 47-049-02090-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.537093               | -80.472456                |                      |            |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72294-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.528108               | -80.457129                |                      | 0 (        |   |  |
| 4704902054               | 47-049-02054-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.524564               | -80.462213                |                      | 0 (        |   | UNREPORTED-UNREPORTED                    |
| 4704970211               | 47-049-70211-00 | SOUTH PENN OIL (S. PENN NAT. GAS                         | ) UNREPORTED              |                              | D SOUTH PENN OIL (S PENN NAT GAS)                        | 39.537401               | -80.47144                 | ,200                 | 0 (        |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72267-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.549455               | -80.486244<br>-80.4615164 |                      | 0 (        |   | UNREPORTED-UNREPORTED                    |
| 4704972306               | 47-049-72306-00 | (N/A)  | UNREPORTED                | UNREPORTE                    |  | 39.5166425<br>39.524044 | -80.461891                |                      | 0 (        |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72299-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.5496                 | -80,483996                |                      | 0 0        |   | UNREPORTED-UNREPORTED                    |
| 4704972268               | 47-049-72268-00 | (N/A)  | UNREPORTED                | UNREPORTE                    | CONSOLIDATION COAL COMPANY                               | 39.520628               | -80.466428                |                      | 3 (        | D MARION COUNTY COMMISSION 542                                | OTHER-P&A                                |
| 4704901836               | 47-D49-D1836-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER<br>UNREPORTE           |  | 39.5262214              | -80,4628279               |                      | 0 (        |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72298-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.52448                | -80.46264                 |                      | 0 (        | 0 W E GUMP  | UNREPORTED-UNREPORTED                    |
| 4704972298               | 47-049-72298-00 | (N/A)  | UNREPORTED PERMIT EXPIRED |                              | CONSOLIDATION COAL COMPANY                               | 39.525353               | -80.46375                 |                      | 74 (       | 0 MARION COUNTY COMMISSION 544                                | OTHER-PERMIT EXPIRED                     |
|                          |                 | CONSOLIDATION COAL COMPANY                               | UNREPORTED                | UNREPORTE                    |  | 39,533333               | -80.476504                |                      | 0 (        |   | UNREPORTED-UNREPORTED                    |
| 47049/2285               | 47-049-72285-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.529                  | -80.459555                | 5 1306 13            | 15         |   | OTHER-P & A                              |
|                          | 47-049-02078-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.545827               | -80.480437                |                      | 0          |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72259-00 |  | UNREPORTED                | UNREPORTE                    |  | 39.546117               | -80.474442                |                      | 0          |   | UNREPORTED-UNREPORTED                    |
| 4704972239               | 47-049-72239-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OIL & GAS                    | CONSOLIDATION COAL COMPANY                               | 39.519254               | -80.468823                |                      |            |   | OIL & GAS-P & A<br>UNREPORTED-UNREPORTED |
|                          | 47-049-72266-00 |  | UNREPORTED                | UNREPORTE                    | D (N/A)  | 39.550181               | -80.487368                |                      | 0          |   | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72303-00 |  | UNREPORTED                | UNREPORTE                    | D (N/A)  | 39.51998                | -80.465826                |                      | •          | 0 ORA HUEY  | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72302-00 |  | UNREPORTED                | UNREPORTE                    | D (N/A)  | 39.522158               | -80.463573                |                      | 0          |   | OTHER-P & A                              |
| 4704901986               | 47-049-01986-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.527254               | -80.459072                |                      |            | 0 BARRON, EDWARD & VICKY 5442<br>0 MARION CO. COMMISSION 5411 | OTHER-P & A                              |
| 4704901889               | 47-049-01889-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.515485               | -80.46175                 |                      |            | 0 MARION CO. COMMISSION 5411<br>0 COTHERMAN, PATRICIA 5449    | OTHER-P & A                              |
| 4704902089               | 47-049-02089-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.537329               | -80.473004                |                      |            | 0 MARION COUNTY COMMISSION 544                                |  |
| 4704902047               | 47-049-02047-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.526434               | -80.46283                 |                      |            | 0 ORA HUEY  | UNREPORTED-UNREPORTED                    |
| 4704972300               | 47-049-72300-00 | (N/A)  | UNREPORTED                | UNREPORTE                    |  | 39.523319               |                           |                      | •          | 0 MARION COUNTY COMMISSION 543                                |  |
| 4704902004               | 47-049-02004-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.524744<br>39.517078  |                           |                      |            | 0 MARION CO. COMMISSION 5422                                  | OTHER-P & A                              |
| 4704901959               | 47-049-01959-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               |                         | -80.4650<br>-80.4650      | •                    |            | 0 MARION COUNTY COMMISSION 543                                |  |
|                          |                 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY                               | 39.523533<br>39.524688  |                           |                      |            | 0 MARION COUNTY COMMISSION 543                                |  |
| 4704901941               | 47-049-01941-00 | CONSOLIDATION COAL COMPANY                               | P&A                       | OTHER                        | CONSOLIDATION COAL COMPANY<br>CONSOLIDATION COAL COMPANY | 39.52607                | -80,4618                  |                      | 46 312     |   | GAS-P & A                                |
|                          |                 | CONSOLIDATION COAL COMPANY                               | P&A                       | GAS<br>UNREPORTE             |  | 39.5288333              |                           |                      |            | 0 0 JAMES HAYS  | UNREPORTED-UNREPORTED                    |
|                          | 47-049-72295-00 |  | UNREPORTED                | OIL                          | CONSOLIDATION COAL COMPANY                               | 39.522063               |                           |                      | 23 336     |   | OOL-P&A                                  |
|                          |                 | CONSOLIDATION COAL COMPANY                               | P & A<br>UNREPORTED       | UNREPORTE                    |  | 39.546553               |                           |                      |            | 0 0 M KENDALL   | UNREPORTED-UNREPORTED                    |
| 47049/2273               | 47-049-72273-00 | J (IN/A)   | DIAMERONIED               | CARLE ON E                   |  |                         |                           |                      |            |   |  |

WY Department of Environmental Protection

LEB 3 3 505¢

Office of Oil and Gas





February 1, 2024

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

Re: Class L Cement Variance Request

Vanderbilt 10H Well

Mannington District, Marion County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

Office of Oil and Gas

FEB 2 3 2024

WV Department of Environmental Protection



#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450 Harold D. Ward, Cabinet Secretary dep.wv.gov

#### BEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

| IN THE MATTER OF A VARIANCE FROM  | ) |                   |
|-----------------------------------|---|-------------------|
| LEGISLATIVE RULE 35CSR4           | ) | ORDER NO. 2022-14 |
| SECTION 11.5 AND LEGISLATIVE RULE | ) |                   |
| 35CSR8 SECTION 9.2.b.8.,          | ) |                   |
| RELATING TO THE CEMENTING         | ) |                   |
| OF OIL AND GAS WELLS              | ) |                   |

#### REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute, (API) Class L cement to be used in place of API Class A cement for well construction.

FEB 2 3 2024

#### FINDINGS OF FACT

- 1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
- 2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

Promoting a healthy environment

Environmental Protection

 On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

#### CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

#### ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

#### IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chief Office of Oil and Gas Office of Oll and Gas

Environmental Protection

#### WEST VIRGINIA GEOLOGICAL PROGNOSIS

VANDERBILT

API S-001217

**Drilling Objectives:** 

Marcellus

County: Quad:

Marion Glover Gap

Elevation: Recommended Azimuth

1368 KB 153 Degrees 1355 GL

Recommended LP to TD: #REF!

ESTIMATED FORMATION TOPS

Based on GLO76 Pilot hole 4704902329

| ESTIMATED FORMATION TO | PS Bas    | sed on GLO /6 Pilot note 4 /04902329 |   |                               |
|------------------------|-----------|--------------------------------------|---|-------------------------------|
| Formation              | Top (TVD) | Base (TVD) Lithology                 | Comments                                      | Top RR Base RR                |
| Fresh Water Zone       | 1         | 504                                  | FW @ 253,504, , , ,                           | No red rock listed in offsets |
| Pittsburgh Coal        | 1181      | 1188 Coal                            | Solid coal within an active mining boundary   |                               |
| Big Lime               | 2458      | 2527 Limestone                       | SW @  |                               |
| Big Injun              | 2527      | 2635 Sandstone                       | Gas / Oil                                     |                               |
| Int. csg pt            | 2685      |                                      |   | ļ                             |
| Gantz                  | 3122      | 3210 Sandstone                       | Gas / Oil                                     | 1                             |
| 50F                    | 3210      | 3445 Silty Sand                      | Storage?                                      |                               |
| Fifth Sand             | 3445      | 3492 Silty Sand                      |   |                               |
| Bayard                 | 3492      | 5937 Silty Sand                      | Base of Offset Well Perforations at 3268' TVD |                               |
| Alexander              | 5937      | 6363 Silty Sand                      |   |                               |
| Elks                   | 6363      | 7240 Gray Shales and Silts           |   |                               |
| Sonyea                 | 7240      | 7401 Gray shale                      |   |                               |
| Middlesex              | 7401      | 7455 Shale                           | ITI   |                               |
| Genesee                | 7455      | 7547 Gray shale interbedded          | Enviro  |                               |
| Geneseo                | 7547      | 7579 Black Shale                     | Office<br>FEB                                 |                               |
| Tully                  | 7579      | 7606 Limestone                       | TB lice                                       |                               |
| Hamilton               | 7606      | 7707 Gray shale with some            | HE AEC  |                               |
| Marcellus              | 7707      | 7763 Black Shale                     | # <b>69</b> 000                               |                               |
| Purcell                | 7726      | 7728 Limestone                       | Toma 2  |                               |
| -Lateral Zone          | 7735      |                                      | Start Lateral at 7735'                        |                               |
| Cherry Valley          | 7742      | 7744 Limestone                       | Start Lateral at 7735'                        |                               |
| Onondaga               | 7763      | Limestone                            | ₽   |                               |
|                        |           |                                      | Pilot hole not needed on this well            |                               |

Target Thickness 56 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 |
|-------------|---------------|
|-------------|---------------|

| Fresh Water/Coal | CSG OD | 13 3/8 | CSG DEPTH: | 1238 |                                |
|------------------|--------|--------|------------|------|--------------------------------|
| Intermediate 1:  | CSG OD | 9 5/8  | CSG DEPTH: | 2685 | Beneath theBig Injun formation |
| Production:      | CSG OD | 5 1/2  | CSG DEPTH: | @ TD |                                |



EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317 P: 724-746-9073 | www.eqt.com

February 1, 2024

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

Re: Casing on Vanderbilt 10H

Dear Mr. Brewer,

The 13-3/8" surface casing will be set at 1,238' KB, 50' below the deepest workable coal seam and 734' below the deepest fresh water. The 9-5/8" intermediate string will be set at 2,685' KB, 50' below the base of the Big Injun formation.

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

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

Office of Oil and Gas

FEB 2 3 2024

Wy Department of Environmental Protection

Wellbore Diagram **EQT Production** Well: County: Vanderbilt 10H Marion West Virginia State: Pad: Vanderbilt Elevation: 1355' GL 1368' KB 4704902538 Conductor @ 53' 26", 85.6#, A252, cement to surface w/ Class A/L 1,238' Surface @ 13-3/8", 54.5#, J-55, cement to surface w/ Class A/L Office of Oil and Gas FEB 2 3 2024 WV Department of Environmental Protection Intermediate @ 2,685' 9-5/8", 36#, J-55, cement to surface w/ Class A/H/L 11,040' MD / 7,735' TVD Production 6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L Formation: Marcellus 04NPZ/Z028CALE

Member, Pennsylvania Association of Notaries

WW-9 (4/16)

| API Number 47 -     | •              |
|---------------------|----------------|
| Operator's Well No. | Vanderbilt 10H |

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| The instance of the contract o |
|--|
| Operator Name_EQT Production Company OP Code 306686  |
| Watershed (HUC 10) Evans Run & Buffalo Creek Quadrangle Glover Gap   |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No   |
| Will a pit be used? Yes No _✓  |
| If so, please describe anticipated pit waste: N/A  |
| Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A   |
| Proposed Disposal Method For Treated Pit Wastes:   |
| Land Application   |
| Underground Injection (UIC Permit Number 0014, 8462, 4037  Reuse (at API Number ∨arious )  |
| Off Site Disposal (Supply form WW-9 for disposal location)   |
| Other (Explain   |
| Will closed loop system be used? If so, describe:  Yes, The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site disposal facility.   |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached   |
| -If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud   |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached  -If oil based, what type? Synthetic, petroleum, etc. Synthetic Mud  Additives to be used in drilling medium? See Attached  |
| Dill to the state of the state  |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A  -Landfill or offsite name/nermit number? See Attached List   |
| -Landfill or offsite name/permit number? See Attached List   |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.  |
| I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature  Company Official Title  Project Specialist - Permitting   |
| Subscribed and sworn before me this  |
| My commission expires  Oct. 25, 2027  Commonwealth of Pennsylvania - Notary Sea Olivia Wilson, Notary Public Allegheny County  My commission number 1359968  Commission number 1359968   |

#### WW-9 Attachment

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

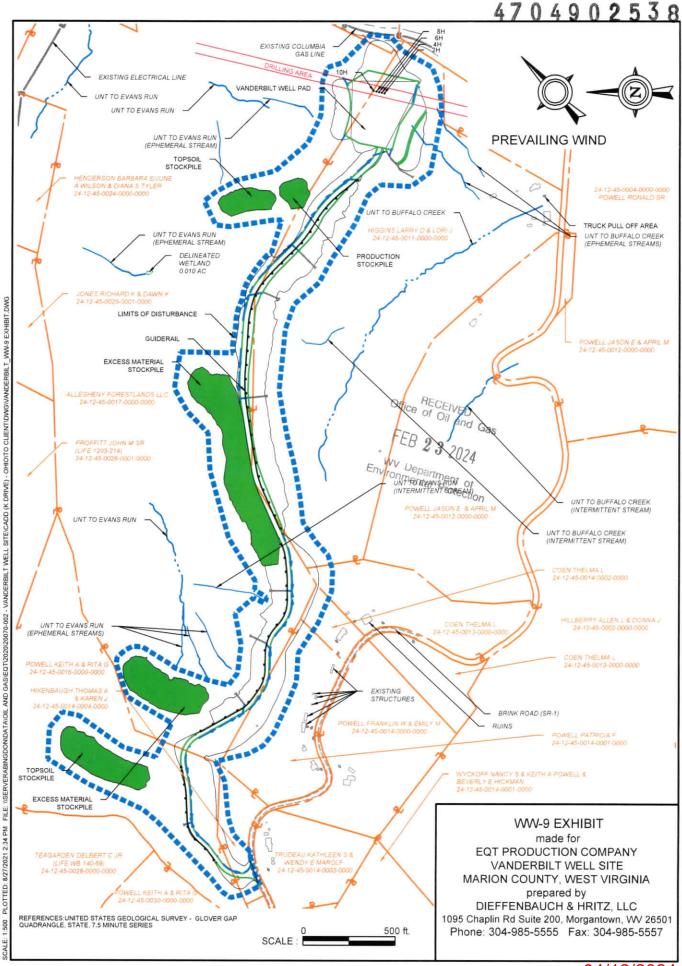
 Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud or synthetic based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole, curve, and lateral sections will be drilled with either air, water-based mud, or synthetic mud.

#### Additives to be used in drilling medium?

- Air biodegradable oil lubricant, detergent, defoaming, water.
- Water based mud Barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.
- Synthetic mud synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.



| EQT Production Co   |  |   |  |
|---|--|---|--|
| Proposed Revegetation Trea  | tment: Acres Disturbed   | Prevegetation pF  | 1  |
|   | Tons/acre or to correct to   |   |  |
| Fertilizer type Gra   | anular 10-20-20  | _   |  |
| Fertilizer amount_5   | 500  | _lbs/acre   |  |
| Mulch 2   | Tor  | ns/acre   |  |
|   | <u>s</u>   | seed Mixtures   |  |
| Te  | emporary   | Perma   | nent   |
| Seed Type   | lbs/acre   | Seed Type   | lbs/acre   |
| KY-31   | 40   | Orchard Grass   | 15   |
|   | _  | Alsike Clover   | 5  |
| Alsike Clover   | 5  | Alsike Clovel   |  |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the   | it and proposed area for land applit will be land applied, include           | plication (unless engineered plans include dimensions (L x W x D) of the pit, and | ding this info have been   |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat  Photocopied section of invo  | it and proposed area for land applied, include tion area                     | plication (unless engineered plans inclu  | ding this info have been   |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat  Photocopied section of invo  | it and proposed area for land applied, include tion area                     | plication (unless engineered plans inclued dimensions (L x W x D) of the pit, and | ding this info have been<br>d dimensions (L x W), and                      |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo   | it and proposed area for land application area lived 7.5' topographic sheet. | plication (unless engineered plans inclued dimensions (L x W x D) of the pit, and | ding this info have been didimensions (L x W), and                         |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo   | it and proposed area for land application area lived 7.5' topographic sheet. | plication (unless engineered plans inclued dimensions (L x W x D) of the pit, and | ding this info have been didimensions (L x W), and ably possible, Manual.  |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat Photocopied section of invo   | it and proposed area for land application area lived 7.5' topographic sheet. | plication (unless engineered plans inclued dimensions (L x W x D) of the pit, and | ding this info have been didimensions (L x W), and                         |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat  Photocopied section of invo  Plan Approved by: Comments:  Pre-seed | it and proposed area for land application area lived 7.5' topographic sheet. | plication (unless engineered plans inclued dimensions (L x W x D) of the pit, and | ding this info have been d dimensions (L x W), and ably possible,  Manual. |
| Annual Rye  Attach: Maps(s) of road, location, p provided). If water from the acreage, of the land applicat  Photocopied section of invo  Plan Approved by: Comments:  Pre-seed | it and proposed area for land application area lived 7.5' topographic sheet. | plication (unless engineered plans inclued dimensions (L x W x D) of the pit, and | ably possible,  Manual.  RECEIVED Office of Oil and Gas                    |





### SITE SAFETY AND ENVIRONMENTAL PLAN

Vanderbilt Well Pad

Mannington
Marion County, WV

Wells - Vanderbilt 2H, 4H, 6H, 8H, 10H

Prepared By: Donny Prater, CSP, Health and Safety Sciences, LLC

Approved By: Scott M. Held, Senior Safety Coordinator

Created Date: 23-Jun-21

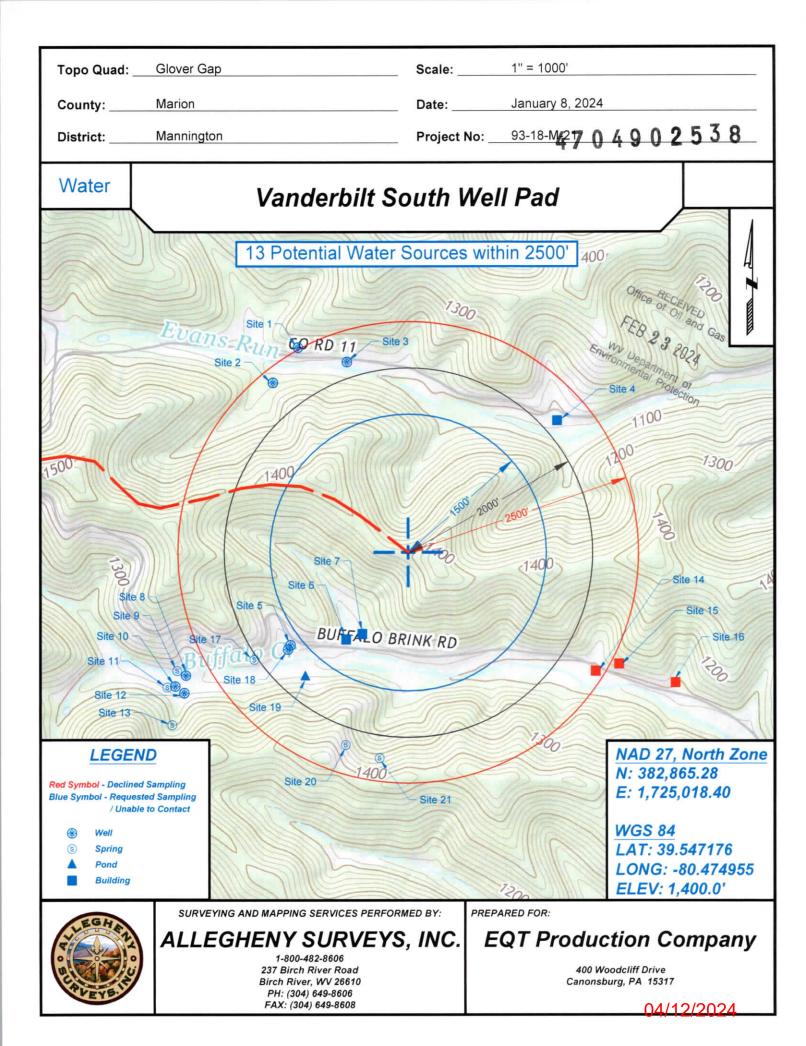
John Zavatchan
Project Specialist - Permitting
EQT Production Company

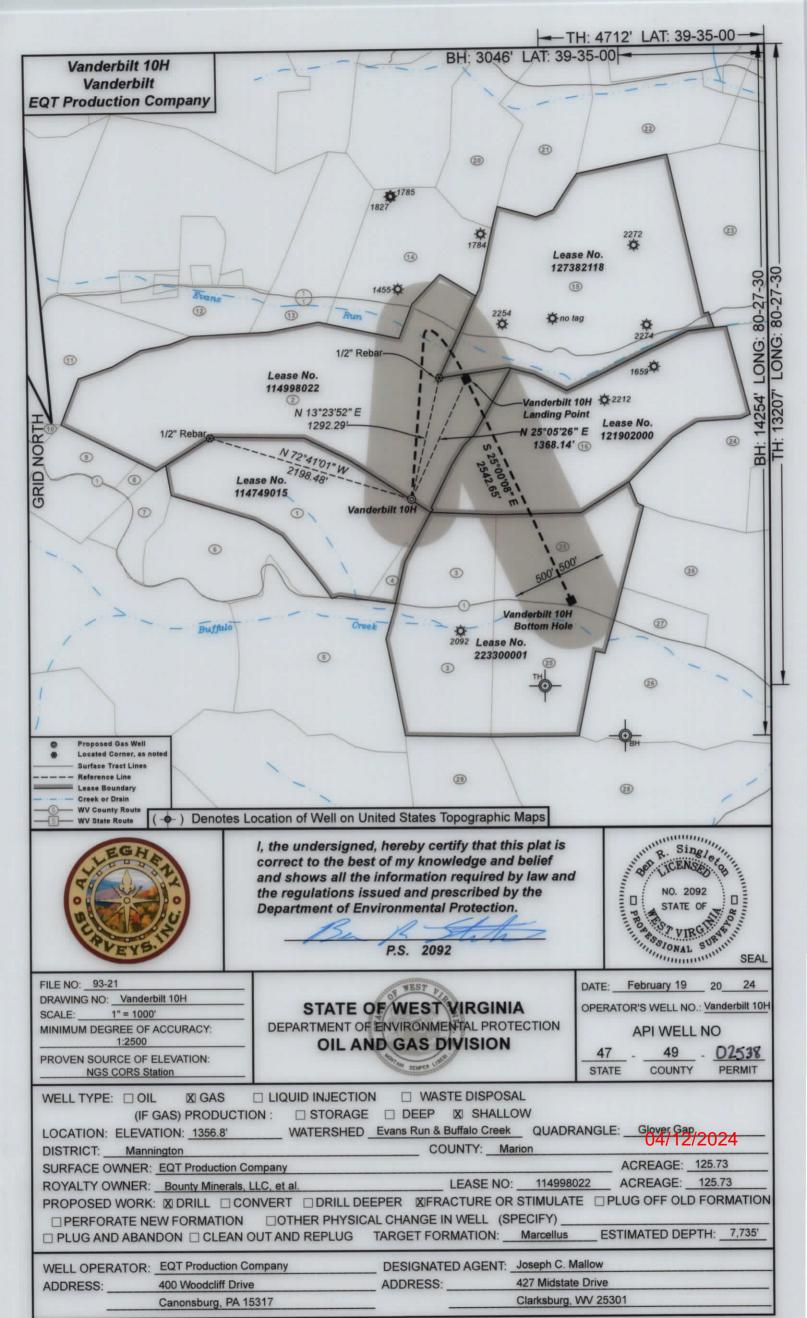
Ken/Willett

Oil and Gas Inspector

WVDEP Office of Oil and Gas

| Revision #           | Date      | Change/s                          |
|----------------------|-----------|-----------------------------------|
| 1                    | 1/10/2020 | Plan total revision and reformat. |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
|                      |           |                                   |
| an Administrator:    |           | Approver:                         |
| ott M. Held, CSP     |           | Michael Lauderbaugh               |
| nior Safety Coordina | ator      | Vice President of EHS             |





#### Vanderbilt 10H Vanderbilt **EQT Production Company**

| Tract I.D. | Tax Map No. | Parcel No. | County | District   |
|------------|-------------|------------|--------|------------|
| 1          | 45          | 11         | Marion | Mannington |
| 2          | 45          | 17         | Marion | Mannington |
| 3          | 45          | 5          | Marion | Mannington |
| 4          | 45          | 12.1       | Marion | Mannington |
| 5          | 45          | 4          | Marion | Mannington |
| 6          | 45          | 12         | Marion | Mannington |
| 7          | 45          | 13         | Marion | Mannington |
| 8          | 45          | 14.2       | Marion | Mannington |
| 9          | 45          | 14.1       | Marion | Mannington |
| 10         | 45          | 14.4       | Marion | Mannington |
| 11         | 45          | 16         | Marion | Mannington |
| 12         | 45          | 26         | Marion | Mannington |
| 13         | 45          | 25.1       | Marion | Mannington |
| 14         | 45          | 24         | Marion | Mannington |
| 15         | 45          | 23         | Marion | Mannington |
| 16         | 45          | 20         | Marion | Mannington |
| 20         | 43          | 2          | Marion | Mannington |
| 21         | 43          | 1          | Marion | Mannington |
| 22         | 42          | 7          | Marion | Mannington |
| 23         | 45          | 22         | Marion | Mannington |
| 24         | 45          | 21         | Marion | Mannington |
| 25         | 45          | 10         | Marion | Mannington |
| 26         | 45          | 9          |        | Mannington |
| 27         | 45          | 6.1        | Marion | Mannington |
| 28         | 46          | 5          | Marion | Mannington |
| 29         | 46          | 6.1        |        | Mannington |

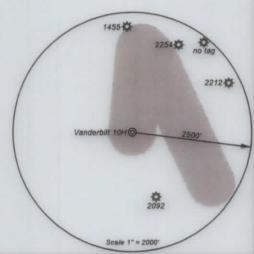
| Surface Tract Owner             | Acres   |   |  |
|---------------------------------|---------|---|--|
| Larry D. & Trisha B. Higgins    | 60      |   |  |
| EQT Production Company          | 125.73  |   |  |
| Harry R. & Susanne M. Morris    | 52      | н |  |
| April M. Powell                 | 2.49    | и |  |
| Ronald L. Powell, Jr.           | 59.82   |   |  |
| April M. Powell                 | 37.5    | 1 |  |
| Thelma L. Coen                  | 11      | ٠ |  |
| Theima L Coen                   | 1.6     |   |  |
| Patricia F. Powell              | 8.59    |   |  |
| Thomas A. & Karen J. Hixenbaugh | 3       |   |  |
| Keith A. Powell                 | 27.29   |   |  |
| John M. Proffitt, Sr.           | 14.6    |   |  |
| Richard K. & Dawn K. Jones      | 5.71    |   |  |
| Barbara E. Henderson, et al.    | 38.5    |   |  |
| Thomas L. Snodgrass             | 105.5   |   |  |
| EQT Production Company          | 78.5    |   |  |
| Gary E. & Alice E. Young        | 37.2    |   |  |
| Wilbert & Alberta Higgins       | 32.5    |   |  |
| Sharon A. Grim                  | 33      |   |  |
| Thomas L Snodgrass              | 44.43   |   |  |
| Vickie E. Lucas                 | 103.194 |   |  |
| Lisa A. & Baron R. Powell       | 68      |   |  |
| Jeffrey B. & Pamela J. Gray     | 107.277 |   |  |
| Barron R. & Mary A. Powell      | 8       |   |  |
| Ruby L Herndon                  | 182.04  |   |  |
| Patricia A. Cotherman           | 40      |   |  |
| Patricia A. Cotherman           | 40      |   |  |

Well References 1/2" Rebar 3754 Vanderbilt 10H 227.75° \$1/2" Rebar 227.75° 29° "= 1000"

Vanderbilt 10H coordinates are NAD 27 N: 382,858.87 E: 1,725,047.22 NAD 27 Lat: 39.547075 Long: -80.475042 NAD 83 UTM N: 4,377,629.96 E: 545,121.25 NAD 27 Lat: 39.550494 Long: -80.473033 NAD 83 UTM N: 4,378,010.40 E: 545,291.72 nderbilt 10H Bottom Hole coordinates are NAD 27 N: 381,793.53 E: 1,726,702.03 NAD 27 N: 381,793,53 E: 1,726,702,03
NAD 27 Lat: 39.544199 Long: -80.469134
NAD 83 UTM N: 4,377,313,79 E: 545,630.8
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

Vanderbilt Vanderbilt 6H@ **⊘**Vanderbilt 4H

| ease No. | Owner                          | Acres  |
|----------|--------------------------------|--------|
| 14749015 | EQT Production Company, et al. | 60     |
| 14998022 | Bounty Minerals, LLC, et al.   | 125.73 |
| 27382118 | Regina C. Evans, et al.        | 105.5  |
| 21902000 | Timothy D. Gooch               | 78.5   |
| 23300001 | Lee and Hall Royalties, et al. | 68     |





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



FILE NO: 93-21 STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION DRAWING NO: Vanderbilt 10H SCALE: 1" = 1000" MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION: NGS CORS Station

| DATE: _ | February 19    | _ 20  | 24        |
|---------|----------------|-------|-----------|
| OPERA"  | TOR'S WELL NO. | Vande | rbilt 10H |
|         | API WELL       | NO    |           |
| 47      | 49             | no    | 520       |

COUNTY

PERMIT

STATE

WELL TYPE: OIL X GAS ☐ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW WATERSHED Evans Run & Buffalo Creek QUADRANGLE: Glaver Gas /2024 LOCATION: ELEVATION: 1356.8' DISTRICT: Mannington COUNTY: Marion SURFACE OWNER: EQT Production Company ACREAGE: 125.73 ACREAGE: ROYALTY OWNER: Bounty Minerals, LLC, et al. LEASE NO: \_ 114998022 125.73 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: 7,735'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow ADDRESS: \_

400 Woodcliff Drive ADDRESS: 427 Midstate Drive Canonsburg, PA 15317 Clarksburg, WV 25301

WW-6A1 (5/13)

| Operator's Well No. | Vanderbilt 10H |
|---------------------|----------------|
|---------------------|----------------|

#### 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

RECEIVED Office of Oil and Gas

FEB 2 3 2024

WV Department of Environmental Protection

#### 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

Its:

Project Specialist - Permitting

Page 1 of 2

| Lease No.        | Grantor, Lessor, etc.                    | Acres     | Grantee, Lessee, etc.        | Royalty             | Book/Page    |
|------------------|--|-----------|------------------------------|---------------------|--------------|
|                  |  |           |                              | "at least 1/8th per |              |
| 114749015        | EQT Production Company, et al.           |           |                              | WV Code 22-6-8"     |              |
|                  | Ascent Resources Marcellus Minerals, LLC | 60 ac     | EQT Production Company       |                     | DB 1204/61   |
|                  |  |           |                              | "at least 1/8th per |              |
| 114998022        | Bounty Minerals, LLC, et al.             |           |                              | WV Code 22-6-8"     |              |
|                  | Bounty Minerals, LLC                     | 125.73 ac | Antero Resources Corporation |                     | DB 1223/161  |
|                  | Antero Resources Corporation             |           | EQT Production Company       |                     | AB 56/332    |
|                  |  |           |                              | "at least 1/8th per |              |
| <u>127382118</u> | Regina C. Evans, et al.                  |           |                              | WV Code 22-6-8"     |              |
|                  | Regina C. Evans                          | 105.5 ac  | EQT Production Company       |                     | DB 1297/517  |
|                  |  |           |                              | "at least 1/8th per |              |
| 121902000        | Timothy D. Gooch                         |           |                              | WV Code 22-6-8"     |              |
|                  | Timothy D. Gooch                         | 78.5 ac   | Antero Resources Corporation |                     | DB 1199/256  |
|                  | Antero Resources Corporation             |           | EQT Production Company       |                     | AB 56/332    |
|                  |  |           |                              | "at least 1/8th per |              |
| 223300001        | Lee and Hall Royalties, et al.           |           |                              | WV Code 22-6-8"     |              |
|                  | Lee and Hall Royalties, a Partnership    | 68 ac     | EQT Production Company       |                     | DB 1310/1079 |





EQT PRODUCTION COMPANY 400 Woodcliff Drive | Canonsburg, PA 15317

February 1, 2024

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

FEB 2 3 2024

WV Department of Environmental Protection

Re:

Vanderbilt 10H Gas Well

Mannington District, Marion County, WV

Dear Mr. Brewer,

EQT Production Company is applying for a new well work permit for the well referenced above. Upon information and belief, the Operator's lease and/ or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

Sincerely,

John Zavatchan

Project Specialist - Permitting

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS RECEIVED NOTICE CERTIFICATION Gas

| Date of Notic   | ce Certification: 02/22/2024   |   |  | Well No. 10H<br>Name: Vanderb   | FEB 2 3 2024  Wy Department of Environmental Protection                                      |
|---|--|---|--|---|--|
| Notice has b  | oeen given:  |   |  |   | rotection  |
| Pursuant to th  | e provisions in West Virginia Code §   | § 22-6A, the Operator has pro   | vided the rec  | juired parties w  | ith the Notice Forms listed  |
| below for the   | tract of land as follows:  |   |  |   |  |
| State:  | West Virginia  | LITM NAD 92   | Easting:   | 545121.251  |  |
| County:   | Marion   | UTM NAD 83  | Northing:  | 4377629.957   |  |
| District:   | Mannington   | Public Road Acc   | cess:  | CR-1  |  |
| Quadrangle:   | Glover Gap   | Generally used f  | farm name:   | Vanderbilt (EQT Produ   | uction Company)  |
| Watershed:  | Evans Run & Buffalo Creek  |   |  |   |  |
| information re<br>of giving the<br>requirements<br>Virginia Code<br>of this article | ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant | ection sixteen of this article; (invey pursuant to subsection of this article were waived in tender proof of and certify to that. | ii) that the re<br>(a), section in writing by<br>the secretary | quirement was<br>ten of this artic<br>the surface ow<br>that the notice | deemed satisfied as a result<br>cle six-a; or (iii) the notice<br>vner; and Pursuant to West |
|   | West Virginia Code § 22-6A, the Op   |   | this Notice C  | ertification  |  |
| 7   | rator has properly served the require<br>ECK ALL THAT APPLY  | d parties with the following:   |  |   | OOG OFFICE USE ONLY  |
| ☐ 1. NO   | TICE OF SEISMIC ACTIVITY or  | NOTICE NOT REQUI  |  | Control of the Control  | ☐ RECEIVED/<br>NOT REQUIRED  |
| ☐ 2. NO   | TICE OF ENTRY FOR PLAT SURV  | /EY or  NO PLAT SURV  | EY WAS CO  | ONDUCTED  | ☐ RECEIVED   |
| ■ 3. NO   | TICE OF INTENT TO DRILL or   | NOTICE NOT REQUINOTICE OF ENTRY FOR WAS CONDUCTED or  |  |   | RECEIVED/ NOT REQUIRED   |
|   |  | ☐ WRITTEN WAIVER<br>(PLEASE ATTACH  |  | CE OWNER  |  |
| ■ 4. NO   | TICE OF PLANNED OPERATION  |   |  |   | RECEIVED   |
| ■ 5. PUE  | BLIC NOTICE  |   |  |   | RECEIVED   |

#### Required Attachments:

■ 6. NOTICE OF APPLICATION

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

RECEIVED

4704902538

WW-6AC (1/12)

#### Certification of Notice is hereby given:

Office of Oil and Gas
FEB 2 3 2024

| THEREFORE, I      | , have read and                                     | d understand  | the notice requirements within West Mirginia Code § 22-     |
|-------------------|---|---------------|---|
| 6A. I certify tha | at as required under West Virginia Code § 22-6      | 6A, I have so | erved the attached copies of the Notice Forms, identified   |
|                   |   |               | or by any method of delivery that requires a receipt or     |
|                   |   |               | examined and am familiar with the information submitted     |
|                   |   |               | nquiry of those individuals immediately responsible for     |
|                   |   |               | d complete. I am aware that there are significant penalties |
| for submitting fa | alse information, including the possibility of fire | and impriso   | onment.   |
|                   | W/S/BL  |               |   |
| Well Operator:    | EQT Production Company                              | Address:      | 400 Woodcliff Drive   |
| By:               | John Zavatchan                                      |               | Canonsburg, PA 15317  |
| Its:              | Project Specialist - Permitting                     | Facsimile:    | 412-395-2974  |
| Telephone:        | 724-746-9073  | Email:        | jzavatchan@eqt.com  |

NOTARY SEAI
Commonwealth of Pennsylvania - Notary Seal
Olivia Wilson, Notary Public
Allegheny County
My commission expires October 25, 2027
Commission number 1359968
Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this day of Notary Public

My Commission Expires 04. 25 2027

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

WW-6A (9-13) API NO. 47 0 4 9 0 2 5 3 8

OPERATOR WELL NO. 104

Well Pad Name: Vanderbit

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Office RECEIVED of Oil and Gas Date of Notice: 2/21/2024 Date Permit Application Filed: 2/22/2024 Notice of: ☑ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WV Department of Environmental Protection WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ☐ PERSONAL ✓ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAIL. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: M COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: See Attached List Name: See Attached List Address: Address: Name: COAL OPERATOR Name: See Attached List Address: Address: ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: See Attached List ☑ SURFACE OWNER OF WATER WELL Address: AND/OR WATER PURVEYOR(s) Name: See Attached List Name: Address: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: \_\_\_\_\_ Address: \*Please attach additional forms if necessary

WW-6A (8-13)

| API NO. 47 4 7 0 4        | 9 | 0 | 2 | 5 | 3 | 8 |  |
|---------------------------|---|---|---|---|---|---|--|
| OPERATOR WELL NO.         |   |   |   |   |   |   |  |
| Well Pad Name: Vanderbilt |   |   |   |   |   |   |  |

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

#### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Iliment co...

Office RECEIVED of Oil and Gas Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining 2024 stice of the partment of protection additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

| API NO. 47                |     |
|---------------------------|-----|
| OPERATOR WELL NO.         | 10H |
| Well Pad Name: Vanderbilt |     |

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The FEB 2 3 2024 operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Environ Department to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section are the properties. department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

#### Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

#### Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13)

04902538 OPERATOR WELL NO. 10H Well Pad Name: Vanderbilt

#### Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this FEB 23 2024 article.

Comment Requirements
Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (8-13)

4704902538

API NO. 47OPERATOR WELL NO. 10H
Well Pad Name: Vanderbilt

Notice is hereby given by:

Well Operator: EQT Production Company Telephone: 724-746-9073

Email: jzavatchan@eqt.com

Address: 400 Woodcliff Drive

Canonsburg, PA 15317

Facsimile: 412-395-2974

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Commonwealth of Pennsylvania - Notary Seal Olivia Wilson, Notary Public Allegheny County My commission expires October 25, 2027 Commission number 1359968

Member, Pennsylvania Association of Notaries

Subscribed and sworn before me this 22 day of 2b, 202

Notary Public

My Commission Expires

Office of Oil and Gas

FEB 2 3 2024

WV Department of Environmental Protection

#### Vanderbilt

#### Surface Owners (All Disturbance):

- Thomas A. Hixenbaugh and Karen J. Hixenbaugh P.O. Box 77 Barrackville, WV 26559
- Keith Powell
   3898 Buffalo Brink Road
   Mannington, WV 26582
- Patricia F. Powell
   3790 Buffalo Brink Road
   Mannington, WV 26582
- Thelma Coen
   3734 Buffalo Brink Road
   Mannington, WV 26582
- Larry and Trisha Higgins
   3418 Buffalo Brink Road
   Mannington, WV 26582
- EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317

#### Water Supply Owners within 1,500':

 Larry and Trisha Higgins 3418 Buffalo Brink Road Mannington, WV 26582

#### **Coal Owners:**

- MINCO I, Inc.
   c/o The Prentice-Hall Corporation System, Inc.
   251 Little Falls Drive
   Wilmington, DE 19808
- Larry and Trisha Higgins 3418 Buffalo Brink Road Mannington, WV 26582
- Susan Powell Wyckoff PO Box 751 Granville, WV 26534

Office of Oil and Gas

WV Department of Environmental Protection

- Jennifer Lynn Huey
   1111 Ridgewood Road
   Fairmont, WV 26554
- Jefry Louis Huey
   6434 Kenhowe Drive
   Bethesda, MD 20817-5446

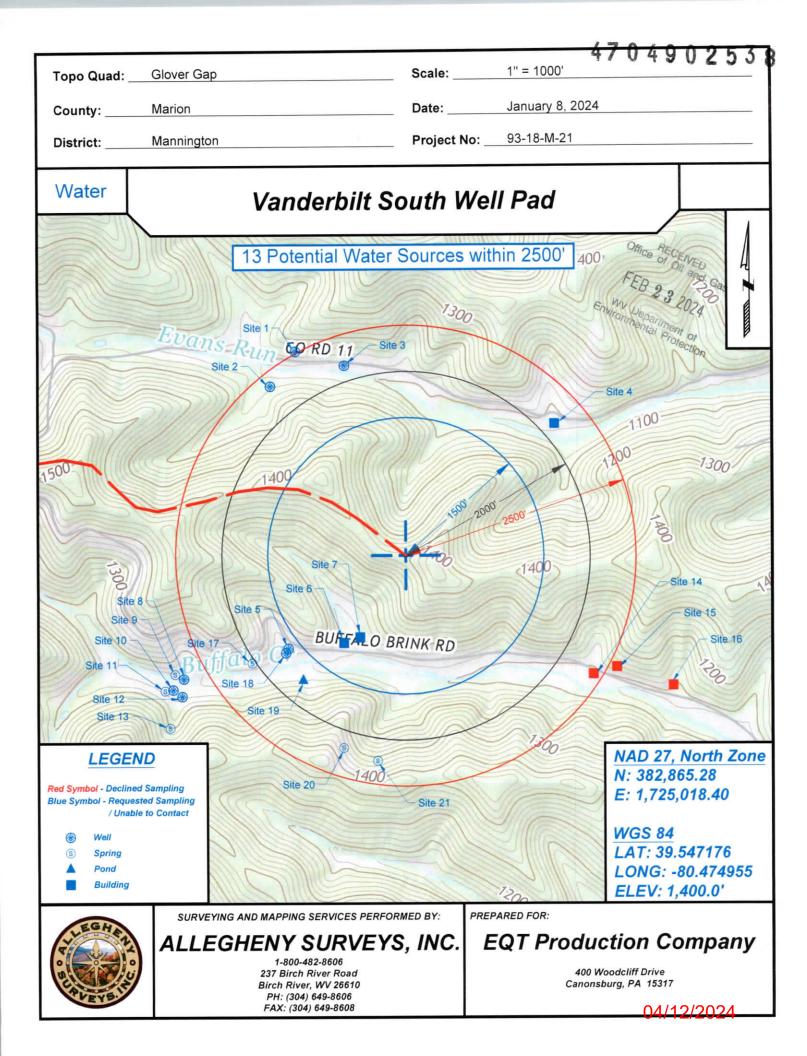
#### Coal Lessee:

 Consolidation Coal Company 46226 National Road West St. Clairsville, OH 43950

#### **Coal Operator:**

 Harrison County Coal Resources, Inc. Attn: Steve Bair 46226 National Road West St. Clairsville, OH 43950





# STATE OF WEST VIRGINIA 47 0 4 9 0 2 5 3 8 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

| 0.1 10(11)  |   |  |  |   |  |  |
|---|---|--|--|---|--|--|
| Notice Time I<br>Date of Notice   | Requirement:<br>e: 01/09/2024   | Notice shall be pr   | rovided at least TI<br>Date Permit App   | EN (10) days prio<br>lication Filed: 02   | 2/22/2024  | permi application.   |
|   | nod pursuant t  | CERTIFIED MA   | Code § 22-6A-16<br>AIL<br>EIPT REQUESTE  |   | W  | EB 2 3 2024  Department of Inmental Protection   |
| Pursuant to W<br>receipt request<br>drilling a horiz<br>of this subsect<br>subsection ma                        | T. Va. Code § 2 ted or hand del zontal well: Prion as of the day be waived in | 2-6A-16(b), at leadivery, give the surrovided, That not the notice was writing by the su | ast ten days prior turface owner notice given pursuants provided to the surface owner. The | to filing a permit e of its intent to e t to subsection (a urface owner: <i>Pr</i> notice, if require | enter upon that), section to<br>rovided, how<br>ed, shall incl | an operator shall, by certified mail return<br>the surface owner's land for the purpose of<br>the of this article satisfies the requirements<br>wever. That the notice requirements of this<br>ude the name, address, telephone number,<br>or's authorized representative. |
| Notice is her<br>Name: See Attac<br>Address:  | chment  | d to the SURFA   | ACE OWNER(s  | Name:   |  |  |
| Notice is her<br>Pursuant to W<br>the surface ow<br>State:<br>County:<br>District:<br>Quadrangle:<br>Watershed: | est Virginia C  | the purpose of dr  | illing a horizontal  | well on the tract   | of land as for<br>Easting:<br>Northing:<br>ess:                | well operator has an intent to enter upon ollows:  545121.25  4377629.96  CR-1  Vanderbilt   |
| Pursuant to V<br>facsimile nun<br>related to hor  | nber and electrizontal drilling   | Code § 22-6A-1<br>ronic mail addres  | ss of the operator<br>d from the Secreta   | and the operator<br>ary, at the WV D  | r's authoriz<br>epartment o                                    | ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.  |
|   | reby given by   |  |  | Authorized Rep  | presentative   | : John Zavatchan   |
| Address:  | 400 Woodcliff [   | Drive  |  | Address:  |  | 400 Woodcliff Drive  |
|   | Canonsburg, PA 1  | 5317   |  |   |  | Canonsburg, PA 15317   |
| Telephone:  | 412-584-3132  |  |  | Telephone:  |  | 412-584-3132   |
| Email:  | JZavatchan@e  | eqt.com  | (c)  | Email:  |  | JZavatchan@eqt.com   |
| Facsimile:  | 412-395-2974  |  | ·  | Facsimile:  |  | 412-395-2974   |
| auso Tato son al  |   |  |  |   |  |  |

#### Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

#### Vanderbilt

#### **Surface Owners (All Disturbance):**

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- Patricia F. Powell
   3790 Buffalo Brink Road
   Mannington, WV 26582
- Thelma Coen
   3734 Buffalo Brink Road
   Mannington, WV 26582
- Larry and Trisha Higgins \* 3418 Buffalo Brink Road Mannington, WV 26582
- EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317

Office September 1990

FEB 2 3 2024

WV Department of Environmental Protection

<sup>\*</sup>An additional 6A4 form was sent to Larry and Trisha Higgins with the 6A and 6A5 notification. The address was the same.

WW-6A5 (1/12)

Operator Well No. Vanderbilt 10H

4704902538

# STATE OF WEST VIRGINIA 4 / U 4 9 U 2 5 C DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

| D. I'  | e: 02/21/2024 Date Permit Ap  | later than the filing date of permit plication Filed: 02/22/2024  |   |
|--|---|---|---|
| Delivery meth  | nod pursuant to West Virginia Code § 2  | 2-6A-16(c)  |   |
| CERTIF   | TED MAIL  | HAND  |   |
|  | N RECEIPT REQUESTED   | DELIVERY  |   |
| return receipt of the planned of required to be drilling of a hadamages to the (d) The notice of notice. | peration. The notice required by this su<br>provided by subsection (b), section ten of<br>corizontal well; and (3) A proposed surfa-<br>e surface affected by oil and gas operation<br>is required by this section shall be given to<br>by provided to the SURFACE OWNER<br>is listed in the records of the sheriff at the ti | bee owner whose land will be used for breetien shall include: (1) A copy of this article to a surface owner who compose the extent the damages are composed the surface owner at the address like (s) | ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the nt containing an offer of compensation for appensable under article six-b of this chapter. sted in the accords of the sheriff at the time   |
|  | u List  | Address:  | Protection  |
| Pursuant to W operation on State:  County:   | Yest Virginia Code § 22-6A-16(c), notice is<br>the surface owner's land for the purpose o<br>West Virginia  | s hereby given that the undersigned f drilling a horizontal well on the tr  UTM NAD 83  Easting: Northing:  | act of land as follows:   |
| District:  | Mannington  | Public Road Access:   | CR-1  |
| Quadrangle:  | Glover Gap  | Generally used farm name:   | Vanderbilt (EQT Production Company)   |
| Pursuant to W  | Shall Include:<br>Vest Virginia Code § 22-6A-16(c), this not  | tice shall include: (1)A copy of this   | s code section; (2) The information required  |
|  | d by W. Va. Code § 22-6A-10(b) to a s   | mpensation agreement containing a   | used in conjunction with the drilling of a<br>in offer of compensation for damages to the   |
| horizontal we<br>surface affect<br>information re  | ed by oil and gas operations to the extenelated to horizontal drilling may be obtallocated at 601 57th Street, SE, Charles  | ined from the Secretary, at the W   | der article six-b of this chapter. Additional V Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-department">www.dep.wv.gov/oil-and-department</a>   |
| horizontal we<br>surface affect<br>information re<br>headquarters,                                       | ed by oil and gas operations to the extenelated to horizontal drilling may be obtallocated at 601 57th Street, SE, Charleault.aspx.   | ined from the Secretary, at the W   | der article six-b of this chapter. Additional V Department of Environmental Protection of by visiting <a href="https://www.dep.wv.gov/oil-and-dep.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;horizontal we&lt;br&gt;surface affect&lt;br&gt;information re&lt;br&gt;headquarters,&lt;br&gt;gas/pages/def&lt;/td&gt;&lt;td&gt;ed by oil and gas operations to the extenelated to horizontal drilling may be obtallocated at 601 57th Street, SE, Charleault.aspx.&lt;/td&gt;&lt;td&gt;ined from the Secretary, at the Weston, WV 25304 (304-926-0450&lt;/td&gt;&lt;td&gt;der article six-b of this chapter. Additional V Department of Environmental Protection or by visiting &lt;a href=" https:="" oil-and-additional-a<="" td="" www.dep.wv.gov=""></a> |

Oil and Gas Privacy Notice:

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#### Vanderbilt

#### **Surface Owners (All Disturbance):**

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   P.O. Box 77
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   3734 Buffalo Brink Road
   Mannington, WV 26582
- Larry and Trisha Higgins 3418 Buffalo Brink Road Mannington, WV 26582
- EQT Production Company 400 Woodcliff Drive Canonsburg, PA 15317

Office of Oil and Gas

FEB 23 2024

WV Department of Environmental Protection



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## Division of Highways Office of the District Engineer/Manager

District Four Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

January 9, 2024

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57<sup>th</sup> Street, SE Charleston, WV 25304

FEB 23 2024

Subject: DOH Permit for the Vanderbilt Well Pad, Marion County

Vanderbilt 10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2021-0331 which has been issued to EQT Production Company for access to the State Road for a well site located off Marion County Route 1 SLS MP 0.178.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Stephen G. Johnson, P.E. Director of Operations

Cc: John Zavatchan

**EQT Production Company** 

OM, D-4 File

## Anticipated Frac Additives Chemical Names and CAS Numbers

| <u>Material</u>   | Ingredient  | CAS Number   |
|---|---|--|
| Sand (Proppant)<br>Water<br>Hydrochloric Acid (HCI)<br>Friction Reducer | Silica Substrate  Water Hydrogen Chloride Copolymer of 2-propenamide Petroleum Distillate Oleic Acid Diethanolamide Alcohols, C12-16, ethoxylated Ammonium chloride ((NH4)CI) | 14808-60-7<br>7732-18-5<br>7647-01-0<br>Proprietary<br>64742-47-8<br>93-83-4<br>68551-12-2<br>12125-02-9 |
| Biocide   | Glutaraldehyde Alkyl dimethyl benzyl ammonium chloride Didecyl dimethyl ammonium chloride Non-hazardous substances  | 111-30-8<br>68391-01-5<br>7173-51-5<br>Proprietary   |
| Scale Control   | Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT) Non-hazardous substances  | <b>34690-00-1</b> Proprietary  |
| Acid Chelating Agent  Corrosion Inhibitor                               | Ferriplex 66 Citric Acid Acetic Acid PLEXHIB 166  | 77-92-9<br>64-19-7   |
| Corrosion inhibitor   | Methanol<br>Alcohols, C14-15, ethoxylated   | 67-56-1<br>68951-67-7  |

WW-6A7 (6-12)

| PERATOR: EQT Production Company WELL NO: 10H   |
|--|
| AD NAME: Vanderbilt  |
| EVIEWED BY: John Zavatchan SIGNATURE:  |
|  |
| WELL RESTRICTIONS CHECKLIST  Office RECEIVED of Oil and Gas  |
| HORIZONTAL 6A WELL   |
| Vall Postrictions  |
| Vell Restrictions  |
| At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR |
| DEP Waiver and Permit Conditions   |
| At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR                   |
| DEP Waiver and Permit Conditions   |
| At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR         |
| DEP Waiver and Permit Conditions   |
| At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR  |
| Surface Owner Waiver and Recorded with County Clerk, OR  |
| DEP Variance and Permit Conditions   |
| At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR   |
| Surface Owner Waiver and Recorded with County Clerk, OR  |
| DEP Variance and Permit Conditions   |
| At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR                              |
| Surface Owner Waiver and Recorded with County Clerk, OR  |
| DEP Variance and Permit Conditions   |