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west virginia department of environmental protection

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

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

Friday, January 16, 2026  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
2200 ENERGY DRIVE

CANONSBURG , PA 15317

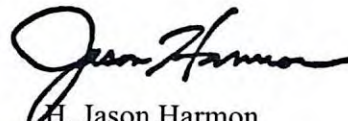
Re: Permit Modification Approval for Energy Cynic 2H  
47-103-03748-00-00

**Lateral Extension**

EQT PRODUCTION COMPANY

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

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

  
H. Jason Harmon  
Acting Chief

Operator's Well Number: Energy Cynic 2H  
Farm Name: Ruth Koontz (LE) & Michael Koontz (Remainderman)  
U.S. WELL NUMBER: 47-103-03748-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 1/16/2026

Promoting a healthy environment.

01/23/2026

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

1) Well Operator: EQT Production Company 306686 Wetzel Clay Littleton  
Operator ID County District Quadrangle

2) Operator's Well Number: 2H Well Pad Name: Energy Cynic

3) Farm Name/Surface Owner: Ruth Koontz & Michael Koontz Public Road Access: CR 9/2 (Robinson Ridge Road)  
Life Estate Remainderman

4) Elevation, current ground: 1,368' (built) Elevation, proposed post-construction: 1,368' (built)

5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐  
Other ☐

(b) If Gas Shallow ☒ Deep ☐  
Horizontal ☒

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus, 7,576', 50', 2,620 psi

8) Proposed Total Vertical Depth: 7,576'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,201'

11) Proposed Horizontal Leg Length: 5,122'

12) Approximate Fresh Water Strata Depths: No Freshwater Zones listed

13) Method to Determine Fresh Water Depths: Offset wells - 103-02265, 103-01822, 103-31026, 103-00344

14) Approximate Saltwater Depths: 2001, 2121

15) Approximate Coal Seam Depths: 879'-883', 1,097'-1,101', 1,205'-1,211'

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

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

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

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18)

**CASING AND TUBING PROGRAM**

| TYPE         | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS  |
|--------------|-----------|-------------|-------|------------------------|----------------------------|------------------------------|--------------------------------|
| Conductor    | 26        | New         | A252  | 85.6                   | 53                         | 53                           | 45 ft^3 / CTS                  |
| Fresh Water  | 13 3/8    | New         | J-55  | 54.5                   | 1261                       | 1261                         | 1125 ft^3 / CTS                |
| Coal         |           |             |       |                        |                            |                              |                                |
| Intermediate | 9 5/8     | New         | J-55  | 36                     | 2689                       | 2689                         | 1025 ft^3 / CTS                |
| Production   | 5 1/2     | New         | P-110 | 20                     | 14201                      | 14201                        | 500' above intermediate casing |
| Tubing       |           |             |       |                        |                            |                              |                                |
| Liners       |           |             |       |                        |                            |                              |                                |

| TYPE         | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|--------------|-----------|------------------------|---------------------|----------------------|------------------------------------------|-------------|--------------------------|
| Conductor    | 26        | 30                     | 0.312               | 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   | 5 1/2     | 8 3/4 - 8 1/2          | 0.361               | 14360                | 11488                                    | Class A/H/L | 1.04 - 2.10              |
| Tubing       |           |                        |                     |                      |                                          |             |                          |
| Liners       |           |                        |                     |                      |                                          |             |                          |

**PACKERS**

|             |  |  |  |  |
|-------------|--|--|--|--|
| Kind:       |  |  |  |  |
| Sizes:      |  |  |  |  |
| Depths Set: |  |  |  |  |

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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): 27.73 acres

22) Area to be disturbed for well pad only, less access road (acres): 15.44 acres

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: No additives

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

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

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

Anti-Settling/Suspension Agent

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25) Proposed borehole conditioning procedures:

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

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

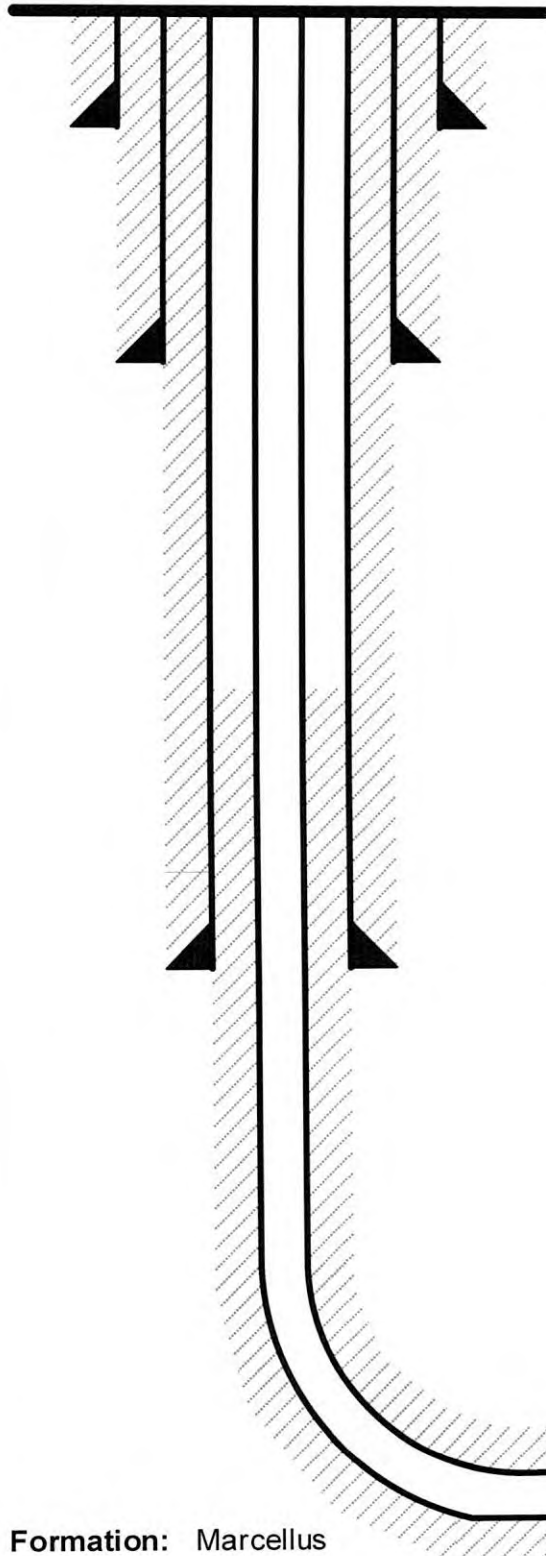
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

\*Note: Attach additional sheets as needed.

**EQT Production****Wellbore Diagram**

Well: Energy Cynic 2H  
Pad: Energy Cynic  
Elevation: 1368' GL 1381' KB

County: Wetzel  
State: West Virginia



**Conductor @ 53'**

26", 85.6#, A252, cement to surface w/ Class A/L

**Surface @ 1,261'**

13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

**Intermediate @ 2,689'**

9-5/8", 36#, J-55, cement to surface w/ Class A/H/L

**Production @ 14,201' MD / 7,576' TVD**

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

**Formation:** Marcellus

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Digitally signed by Stephen  
Mccoy  
Date: 2025.12.17 08:24:53  
-05'00'

Stephen Mccoy

NOT TO SCALE  
01/23/2026

# WEST VIRGINIA GEOLOGICAL PROGNOSIS

Energy Cynic

S-001221

## Drilling Objectives:

County:

Quad:

Elevation:

Recommended Azimuth

Marcellus

Wetzel

Littleton

1381 KB

156 Degrees

1368 GL

## ESTIMATED FORMATION TOPS

| Formation        | Top (TVD) | Base (TVD)                  | Lithology | Comments                                    |
|------------------|-----------|-----------------------------|-----------|---------------------------------------------|
| Fresh Water Zone | 1         | 278                         |           | FW Show from Permit App of 4710302265       |
| Waynesburg       | 879       | 883 Coal                    | Not Mined |                                             |
| Sewickley        | 1097      | 1101 Coal                   | Not Mined |                                             |
| Pittsburgh       | 1205      | 1211 Coal                   | Not Mined |                                             |
| Big Lime         | 2361      | 2477 Limestone              |           | SW @ 2001,2121, ,                           |
| Big Injun        | 2503      | 2639 Sandstone              |           |                                             |
| Int. csg pt      | 2689      |                             |           | Not near storage                            |
| Weir             | 2756      | 5120 Sandstone              |           |                                             |
| Gantz            | 3086      | 3454 Silty Sand             |           |                                             |
| Bayard           | 3454      | 3964 Silty Sand             |           |                                             |
| Speechley        | 3874      | 4040 Silty Sand             |           | Base of Offset Well Production at 3318' TVD |
| Alexander        | 5915      | 6373 Silty Sand             |           |                                             |
| Elks             | 6373      | 7107 Gray Shales and Silts  |           |                                             |
| Sonyea           | 7107      | 7280 Gray shale             |           |                                             |
| Middlesex        | 7280      | 7320 Shale                  |           |                                             |
| Genesee          | 7320      | 7399 Gray shale interbedded |           |                                             |
| Genesee          | 7399      | 7423 Black Shale            |           |                                             |
| Tully            | 7423      | 7446 Limestone              |           |                                             |
| Hamilton         | 7446      | 7552 Gray shale with some   |           |                                             |
| Marcellus        | 7552      | 7601 Black Shale            |           |                                             |
| Purcell          | 7569      | 7571 Limestone              |           | MRC Target                                  |
| -Lateral Zone    | 7576      |                             |           |                                             |
| Cherry Valley    | 7583      | 7585 Limestone              |           |                                             |
| Onondaga         | 7601      | Limestone                   |           |                                             |

Top RR

Base RR

No Red Rock Listed in Offsets

Base of Red Rock

Target Thickness 50 feet

Max Anticipated Rock Pressure 2620 PSI

## Comments:

All measurements taken from estimated KB elevation.

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

|                  | CSG OD | 13 3/8 | Casing Depth KB | Casing Depth GLE |                           |
|------------------|--------|--------|-----------------|------------------|---------------------------|
| Fresh Water/Coal | CSG OD | 9 5/8  | 1261            | 1248             | 50' below Pittsburgh Coal |
| Intermediate 1:  | CSG OD | 5 1/2  | 2689            | 2676             | 50' below Big Injun Base  |
| Production:      | CSG OD |        | @ TD            | @ TD             | @ TD                      |

EQT Production  
Hydraulic Fracturing Monitoring Plan  
Pad ID: Energy Cynic  
County: Wetzel

December 17, 2025

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## Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing at the following EQT wells on the Energy Cynic pad: 2H, 4H, 6H, 8H, 10H, 12H, 14H & 16H.

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 of the timeline, as well as any issues that may arise during fracturing.

### 1. Communications with Well Operators

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

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

EQT will recommend to these operators at a minimum to:

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

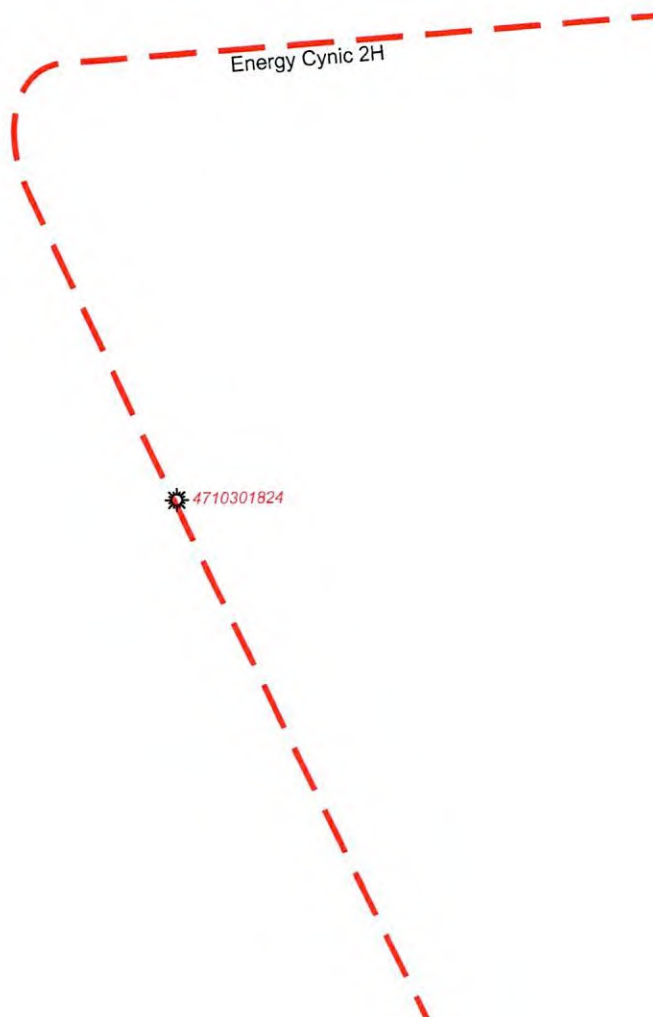
### 2. Reporting

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

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EQT Corporation  
625 Liberty Avenue  
Pittsburgh, PA 15222

Energy Cynic

Vertical Offsets and  
Foreign Laterals  
within 500 Feet

## Legend

Well Lateral\_FM

Formation

Geneseo

Marcellus

Utica



Energy Cynic\_Offset\_Wells

1000 500 0 1000



Scale: 1 Inch = 1000 Feet

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

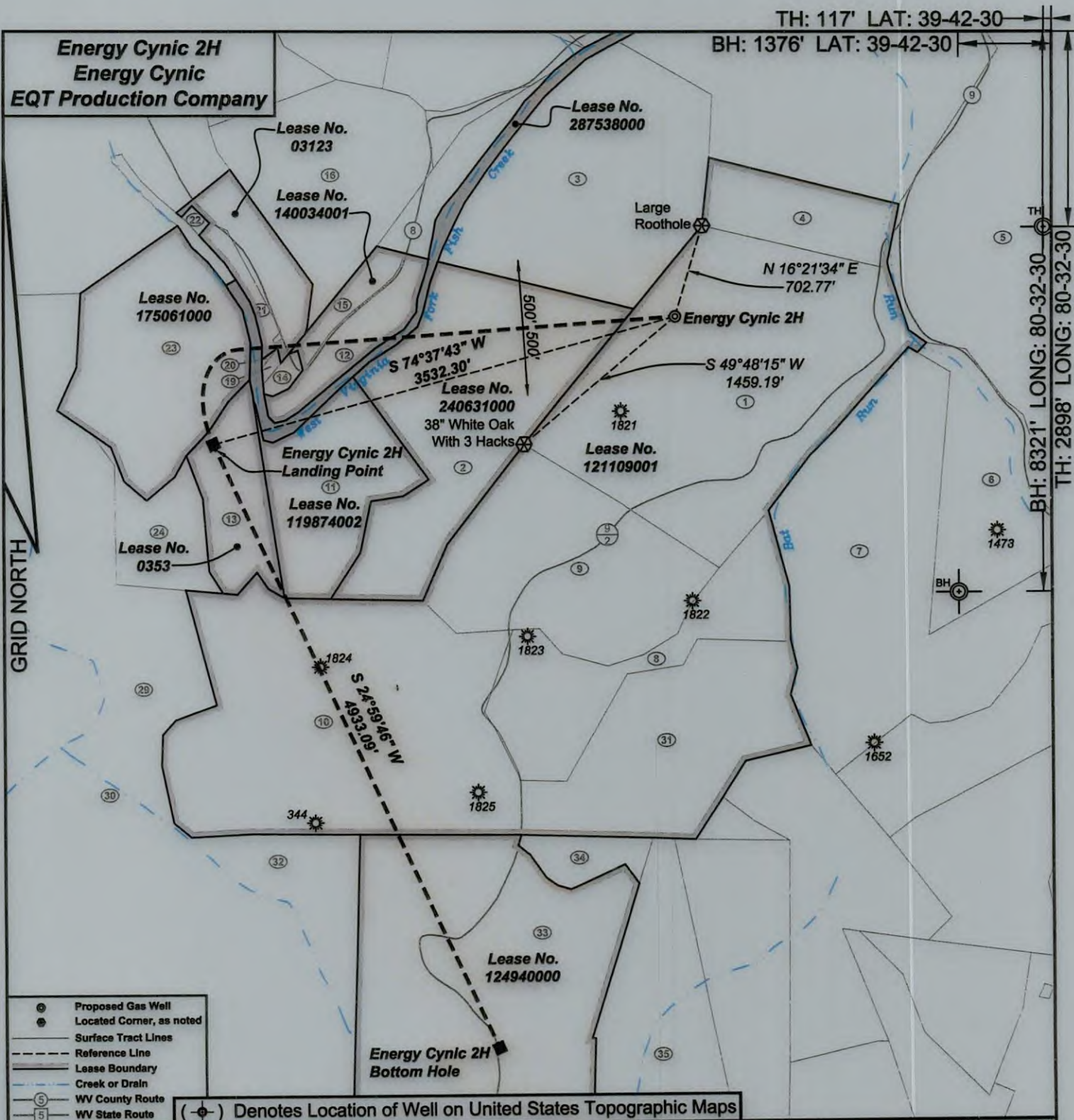
1 Inch = 116,000 Feet



01/23/2026

| UWI        | ABAND_DATE | CURR_OPER               | ELEV_RF_CD | FIELD_NAME     | FNL_CLASS        | LATITUDE    | LONGITUDE    | OPER_NAME                        | PROJ_TD | SPUD_DATE          | ELEVATION | TOT_DEPTH |
|------------|------------|-------------------------|------------|----------------|------------------|-------------|--------------|----------------------------------|---------|--------------------|-----------|-----------|
| 0182400000 | NA         | CNX Gas Company LLC     | NA         | NA             | NA               | 39.693206   | -80.551308   | NA                               | NA      | NA                 | NA        | NA        |
| 0165200000 | NA         | Noumenon Corporation    | Unknown    | UNNAMED        | Unclassified     | 39.691740   | -80.536779   | Noumenon Corporation             | NA      | 1/1/2008           | 1250.00   | NA        |
| 0182100000 | NA         | CNX Gas Company LLC     | NA         | NA             | NA               | 39.698446   | -80.543488   | NA                               | NA      | NA                 | NA        | NA        |
| 0182200000 | 12/15/2014 | CNX Gas Company LLC     | ground     | Littltn-Sgr Rn | Development Well | 39.694599   | -80.541563   | CNX Gas Company LLC              |         | 2095.00 12/8/2014  | 1343.00   | 2095.00   |
| 0182300000 | 12/19/2014 | CNX Gas Company LLC     | ground     | Littltn-Sgr Rn | Development Well | 39.693852   | -80.545880   | CNX Gas Company LLC              |         | 2125.00 12/16/2014 | 1370.00   | 2125.00   |
| 0147800000 | NA         | Creston Oil Corporation | ground     | Littltn-Sgr Rn | Development Well | 39.696090   | -80.533590   | TNG Inc.                         | NA      | NA                 | 1040.00   | NA        |
| 0182500000 | NA         | CNX Gas Company LLC     | NA         | NA             | NA               | 39.690693   | -80.547154   | NA                               | NA      | NA                 | NA        | NA        |
| 0034400000 | NA         | Operator Unknown        | Ground     | Knob Fork      | Unsuccessful     | 39.69004500 | -80.55141000 | Oper in Min. Owner fld(Orphan We |         | 2450.00 8/16/1948  | 1325.00   | 2450.00   |

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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

*Ben R. Singleton*  
P.S. 2092



SEAL

FILE NO: 59-22

DRAWING NO: Energy Cynic 2H

SCALE: 1" = 1000'

MINIMUM DEGREE OF ACCURACY:  
1:2500

PROVEN SOURCE OF ELEVATION:  
NGS CORS Station

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

DATE: December 16 20 25

OPERATOR'S WELL NO.: Energy Cynic 2H

API WELL NO

47 - 103 - 03748  
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL

(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: 1368' WATERSHED Bat Run of Sugar Run of West Virginia Fork Fish Creek QUADRANGLE: Littleton

DISTRICT: Clay COUNTY: Wetzel

SURFACE OWNER: Ruth Koontz, Life Estate & Michael Koontz, Remainderman

ACREAGE: 34.26

ROYALTY OWNER: Stone Hill Minerals Holdings, LLC, et al.

LEASE NO: 121109001

ACREAGE: 339

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: 7576'

WELL OPERATOR: EQT Production Company

DESIGNATED AGENT: Joseph C. Mallow

ADDRESS: 2200 Energy Drive

ADDRESS: 427 Midstate Drive

Canonsburg, PA 15317

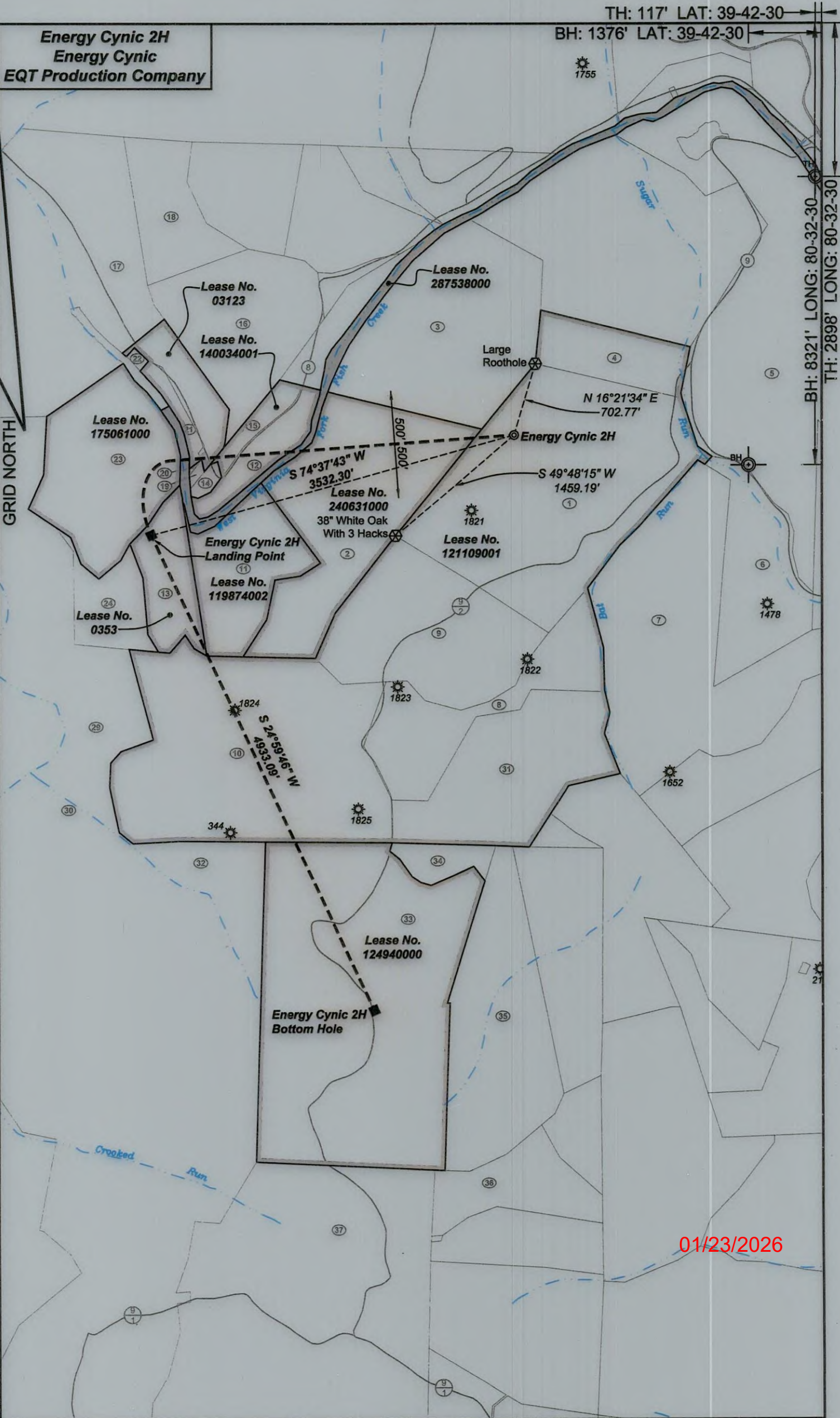
Clarksburg, WV 26301

Energy Cynic 2H  
Energy Cynic  
EQT Production Company

TH: 117' LAT: 39-42-30  
BH: 1376' LAT: 39-42-30

BH: 8321' LONG: 80-32-30  
TH: 2898' LONG: 80-32-30

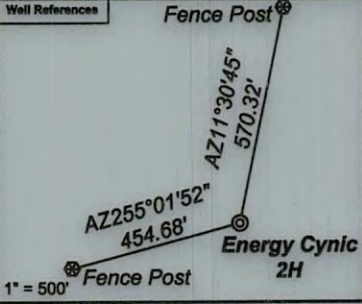
GRID NORTH



01/23/2026

Energy Cynic 2H  
Energy Cynic  
EQT Production Company

| Tract I.D. | TaxMap No. | Parcel No. | County | District | Surface Tract Owner             | Acres  |
|------------|------------|------------|--------|----------|---------------------------------|--------|
| 1          | 5          | 10         | Wetzel | Qay      | Michael L. Koontz Life Estate   | 84     |
| 2          | 5          | 8          | Wetzel | Qay      | Wayne Carmint Realty LLC        | 52     |
| 3          | 1          | 32         | Wetzel | Qay      | Thomas Wade, Est.               | 50     |
| 4          | 1          | 34         | Wetzel | Qay      | Florence Casconi                | 19     |
| 5          | 2          | 24         | Wetzel | Qay      | Cora Hix                        | 147.35 |
| 6          | 5          | 12         | Wetzel | Qay      | Daniel L. Reggia                | 30     |
| 7          | 5          | 11         | Wetzel | Qay      | Barry J. & Elizabeth A. Frankel | 80     |
| 8          | 5          | 27.1       | Wetzel | Qay      | Shaun D. Kuhn                   | 18     |
| 9          | 5          | 9          | Wetzel | Qay      | Michael L. Koontz Life Estate   | 48     |
| 10         | 5          | 28         | Wetzel | Qay      | Michael L. & Allison G. Koontz  | 90     |
| 11         | 5          | 7          | Wetzel | Qay      | Wayne W. & Dana P. Carmint      | 24.5   |
| 12         | 5          | 6          | Wetzel | Qay      | Wayne Carmint Realty LLC        | 7      |
| 13         | 5          | 3          | Wetzel | Qay      | Liberty Holding Company         | 16.39  |
| 14         | 5          | 5          | Wetzel | Qay      | Katherine S. Wharton            | Lot    |
| 15         | 1          | 30         | Wetzel | Qay      | Wayne Carmint Realty LLC        | 3.67   |
| 16         | 1          | 29         | Wetzel | Qay      | Wayne Carmint Realty LLC        | 41.8   |
| 17         | 1          | 23         | Wetzel | Qay      | S&R Investments                 | 107.27 |
| 18         | 1          | 22         | Wetzel | Qay      | Charles R. Phillips, Jr.        | 21.8   |
| 19         | 5          | 4          | Wetzel | Qay      | Katherine S. Wharton            | 0.5    |
| 20         | 5          | 4.1        | Wetzel | Qay      | Katherine S. Wharton            | 0.15   |
| 21         | 1          | 28         | Wetzel | Qay      | Wayne Carmint Realty LLC        | 5.11   |
| 22         | 1          | 27         | Wetzel | Qay      | Wayne Carmint Realty LLC        | 0.59   |
| 23         | 1          | 26         | Wetzel | Qay      | Wayne Carmint Realty LLC        | 38.25  |
| 24         | 5          | 2          | Wetzel | Qay      | Wayne Carmint Realty LLC        | 12.31  |
| 29         | 5          | 57         | Wetzel | Qay      | Jill M. Carr, et al.            | 40     |
| 30         | 5          | 32.1       | Wetzel | Qay      | Liberty Holding Company         | 10.71  |
| 31         | 5          | 27         | Wetzel | Qay      | Michael L. & Allison G. Koontz  | 54.5   |
| 32         | 5          | 29         | Wetzel | Qay      | Clinton D. & Erin K. Bosser     | 106    |
| 33         | 5          | 25         | Wetzel | Qay      | Clinton D. & Erin K. Bosser     | 124.7  |
| 34         | 5          | 26         | Wetzel | Qay      | Millie A. & Edward W. Tevino    | 6.5    |
| 35         | 5          | 24         | Wetzel | Qay      | Millie A. & Edward W. Tevino    | 48.25  |
| 36         | 5          | 36         | Wetzel | Qay      | Dallison Lumber Inc.            | 21     |
| 37         | 6          | 2          | Wetzel | Qay      | Kelly & Carolyn E. Weisdack     | 153.5  |



Notes:  
Energy Cynic 2H coordinates are  
NAD 27 N: 438,875.74 E: 1,706,735.12  
NAD 27 Lat: 39.700294 Long: -80.542280  
NAD 83 UTM N: 4,394,603.03 E: 539,257.94  
Energy Cynic 2H Landing Point coordinates are  
NAD 27 N: 437,939.51 E: 1,703,329.29  
NAD 27 Lat: 39.697615 Long: -80.554344  
NAD 83 UTM N: 4,394,300.44 E: 538,225.05  
Energy Cynic 2H Bottom Hole coordinates are  
NAD 27 N: 433,469.30 E: 1,705,413.91  
NAD 27 Lat: 39.685410 Long: -80.546751  
NAD 83 UTM N: 4,392,949.16 E: 538,882.86  
West Virginia Coordinate system of 1983 (North Zone)  
based upon Differential GPS Measurements.  
Plat orientation, corner and well ties are based upon  
the grid north meridian.  
Well location references are based upon the grid north  
meridian.  
UTM coordinates are NAD83, Zone 17, Meters.

Energy Cynic  
Energy Cynic 16H  
Energy Cynic 14H  
Energy Cynic 12H  
Energy Cynic 10H  
Energy Cynic 8H  
Energy Cynic 6H  
Energy Cynic 4H  
Energy Cynic 2H

| Lease No. | Owner                                       | Acres               |
|-----------|---------------------------------------------|---------------------|
| 121109001 | Stone Hill Minerals Holdings, LLC, et al.   | 339                 |
| 240631000 | Delorse A. Homer                            | 52.25               |
| 140034001 | William Roger Phillips, et al.              | 10.67               |
| 03123     | Stone Hill Minerals Holdings, LLC           | 6.300485 of 407.87  |
| 287538000 | West Virginia Division of Natural Resources | 38.1877             |
| 175061000 | OXY USA, Inc., et al.                       | 38.25 of 31,151.581 |
| 0353      | Liberty Holding Company                     | 16.39               |
| 119874002 | J&D Land Group Ltd.                         | 24.50               |
| 124940000 | Green Dot Farm, Inc.                        | 311.90              |



**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<br>Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------------|-----------------------|-----------------------|---------|-----------|
| See Attached            |                       |                       |         |           |

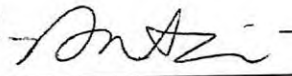
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

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

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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: Branden Weimer   
Its: Regional Manager - Permitting

| Lease No.        | Grantor, Lessor, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Acres                        | Grantee, Lessee, etc.                                                                                                                                                                                                                                                                                                                                                             | Royalty                                | Book/Page                                                                                                                                                                         |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>121109001</u> | <u>Stone Hill Minerals Holdings, LLC, et al.</u><br>Stone Hill Minerals Holdings, LLC                                                                                                                                                                                                                                                                                                                                                                                              | 339 ac                       | EQT Production Company                                                                                                                                                                                                                                                                                                                                                            | *at least 1/8th per<br>WV Code 22-6-8" | OG 185A/486                                                                                                                                                                       |
| <u>240631000</u> | <u>Delorse A. Horner</u><br>Delorse A. Horner, a widow<br>TH Exploration, LLC<br>TH Exploration, LLC                                                                                                                                                                                                                                                                                                                                                                               | 52.25 ac                     | TH Exploration, LLC<br>EQT TGH Exploration, LLC<br>EQT TGH Exploration, LLC                                                                                                                                                                                                                                                                                                       | *at least 1/8th per<br>WV Code 22-6-8" | OG 285A/67<br>MB 153/704<br>MB 154/899                                                                                                                                            |
| <u>140034001</u> | <u>William Roger Phillips, et al</u><br>Priscilla Faith Phillips<br>TH Exploration, LLC<br>TH Exploration, LLC                                                                                                                                                                                                                                                                                                                                                                     | 10.67 ac                     | TH Exploration, LLC<br>EQT TGH Exploration, LLC<br>EQT TGH Exploration, LLC                                                                                                                                                                                                                                                                                                       | *at least 1/8th per<br>WV Code 22-6-8" | OG 211A/886<br>MB 153/704<br>MB 154/899                                                                                                                                           |
| <u>03123</u>     | <u>Stone Hill Minerals Holdings LLC</u><br><br>Stone Hill Minerals Holdings LLC<br><br>TH Exploration, LLC<br>SWN Production Company<br><br>Expand Appalachia LLC<br>Equinor USA Onshore Properties Inc.                                                                                                                                                                                                                                                                           | 118.38 ac of<br>407.87 ac    | TH Exploration, LLC<br>SWN Production Company<br>Equinor USA Onshore Properties, Inc.<br>Expand Appalachia LLC<br><br>EQT Production Company                                                                                                                                                                                                                                      | *at least 1/8th per<br>WV Code 22-6-8" | OG 261A/890<br><br>AB 49/615 (Marshall Cty)<br>MB 162/659<br>Leasehold Commitment<br>Agreement dated October<br>20, 2025                                                          |
| <u>287538000</u> | <u>West Virginia Division of Natural Resources</u><br>West Virginia Division of Natural Resources                                                                                                                                                                                                                                                                                                                                                                                  | 38.187 ac                    | EQT Production Company                                                                                                                                                                                                                                                                                                                                                            | *at least 1/8th per<br>WV Code 22-6-8" | OG 424A/155                                                                                                                                                                       |
| <u>175061000</u> | <u>OXY USA, Inc., et al</u><br>BRC Appalachian Minerals I LLC &<br>BRC Appalachian Minerals I, LLC<br>BRC Appalachian Minerals I, LLC<br>BRC Minerals LP<br>BRC Working Interest Company, LLC<br>Chesapeake Appalachia, L.L.C.<br>Chesapeake Appalachia, L.L.C.<br>Statoil USA Onshore Properties, Inc.<br>SWN Exchange Titleholder, LLC<br>SWN Production Company, LLC<br>Statoil USA Onshore Properties, Inc.<br>Antero Exchange Properties, LLC<br>Antero Resources Corporation | 38.25 ac of<br>31,151.581 ac | BRC Working Interest Company LLC<br><br>BRC Working Interest Company, LLC<br>Chesapeake Appalachia, L.L.C.<br>Statoil USA Onshore Properties, Inc.<br>SWN Production Company, LLC<br>SWN Exchange Titleholder, LLC<br>SWN Production Company, LLC<br>Antero Exchange Properties, LLC<br>Antero Exchange Properties, LLC<br>Antero Resources Corporation<br>EQT Production Company | *at least 1/8th per<br>WV Code 22-6-8" | OG 102A/505<br><br>OG 103A/320<br>OG 103A/470<br>OG 120A/109<br>OG 157A/540<br>OG 158A/801<br>Corp. Book 13/296<br>OG 177A/533<br>OG 177A/738<br>Corp. Book 13/311<br>OG 324A/748 |
| <u>0353</u>      | <u>Liberty Holding Company</u><br>Liberty Holding Company<br>SWN Production Company<br><br>Expand Appalachia LLC<br>Equinor USA Onshore Properties Inc.                                                                                                                                                                                                                                                                                                                            | 16.39 ac                     | SWN Production Company, LLC<br>Expand Appalachia LLC<br><br>EQT Production Company                                                                                                                                                                                                                                                                                                | *at least 1/8th per<br>WV Code 22-6-8" | OG 320A/929<br>MB 162/659<br>Leasehold Commitment<br>Agreement dated October<br>20, 2025                                                                                          |
| <u>119874002</u> | <u>J&amp;D Land Group Ltd.</u><br>J&D Land Group Ltd.<br>Antero Resources Corporation                                                                                                                                                                                                                                                                                                                                                                                              | 24.50 ac                     | Antero Resources Corporation<br>EQT Production Company                                                                                                                                                                                                                                                                                                                            | *at least 1/8th per<br>WV Code 22-6-8" | OG 171A/114<br>OG 231A/59                                                                                                                                                         |
| <u>124940000</u> | <u>Green Dot Farm, Inc.</u><br>Green Dot Farm, Inc.<br>Green Dot Farm, Inc.<br>Drilling Appalachian Corporation<br>Statoil USA Onshore Properties, Inc.                                                                                                                                                                                                                                                                                                                            | 311.90 ac                    | Drilling Appalachian Corporation<br>Drilling Appalachian Corporation<br>Statoil USA Onshore Properties, Inc.<br>EQT Production Company                                                                                                                                                                                                                                            | *at least 1/8th per<br>WV Code 22-6-8" | OG 86A/546<br>OG 101A/674<br>OG 153A/640<br>OG 175A/707                                                                                                                           |

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Environmental Protection

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EQT PRODUCTION COMPANY  
2200 Energy Drive | Canonsburg, PA 15317

December 17, 2025

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

Re: Energy Cynic 2H 6A1 Addendum

Dear Mr. Brewer,

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

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

If you have any questions, please do not hesitate to contact me at 724-250-0180 or [OPishioneri@eqt.com](mailto:OPishioneri@eqt.com)

Sincerely,

A handwritten signature in blue ink, appearing to read "Olivia Wilson".

Olivia Wilson  
Project Specialist - Permitting

Enc.

REC-2127  
Office of Oil and Gas

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Environmental Protection

01/23/2026

| Lease No.        | Grantor, Lessor, etc.                                                         | Acres       | Grantee, Lessee, etc.  | Royalty                                | Book/Page   |
|------------------|-------------------------------------------------------------------------------|-------------|------------------------|----------------------------------------|-------------|
| <u>289372000</u> | <u>Katherine Sue Wharton Soles</u><br>Katherine Sue Wharton Soles             | 1.22 ac     | EQT Production Company | "at least 1/8th per<br>WV Code 22-6-8" | OG 434A/36  |
| <u>287139001</u> | <u>Stone Hill Minerals Holdings, LLC</u><br>Stone Hill Minerals Holdings, LLC | 0.171875 ac | EQT Production Company | "at least 1/8th per<br>WV Code 22-6-8" | OG 420A/802 |

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WV Dept. of Environmental Protection

01/23/2026

**Energy Cynic 2H**  
**EQT Production Company**  
**"Lease Nos. 287139001 & 289372000 Addendum"**

**Lease No.**  
**03123**

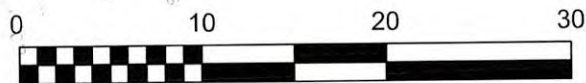


**Proposed Well Bore**

9.44'

**Lease No.**  
**287139001**

**Lease No.**  
**289372000**



Scale: 1 Inch = 10 Feet



Birch River Office  
Phone: (304) 649-8606  
Fax: (304) 649-8608

237 Birch River Road  
Birch River, WV 26610  
[www.alleghenysurveys.com](http://www.alleghenysurveys.com)

PARTY CHIEF: NA

RESEARCH: NA

SURVEYED: NA

FIELD CREW: NA

DRAWING NO: 2H Addendum  
Lease 287139001.dwg

PROJECT NO: 59-34-C-22

PREPARED: December 03, 2025

DRAWN BY: Tim Rutledge

Sheet 1 of 1



10/20/2025

EQT Production Company  
EQT CHAP LLC  
EQT Aurora LLC  
EQT TGHLL Exploration LLC  
625 Liberty Avenue  
Suite 1700  
Pittsburgh, PA 15222  
Attn: Greg Godbey

**Re: Leasehold Commitment Agreement**  
Energy Cynic South 1 – 2Units  
Energy Cynic 2H, 4H, and 6H  
Wetzel County, West Virginia

Hallibu North Unit  
Hallibu 3H  
Wetzel County, West Virginia

Dear Greg:

This letter (this "**Leasehold Commitment Agreement**") shall serve as a formal agreement between EQT Production Company, a Pennsylvania company with an address of 2200 Energy Drive, Canonsburg, PA 15317 ("EQT") and Expand Appalachia LLC, an Oklahoma limited liability company, a subsidiary of Expand Energy Corporation, sole manager, with an address of 10000 Energy Drive, Spring, Texas 77389 ("EXE"), Equinor USA Onshore Properties Inc., a Delaware corporation, whose address is 2107 City West Blvd, Houston, Texas 77042 ("EQNR") (EXE and EQNR are collectively referred to as "EXE/EQNR") regarding certain tracts of land and leases in Wetzel County, West Virginia, as described in the attached Exhibit "A", wherein EXE/EQNR may own a leasehold or fee interest in the oil and gas rights (the "**Subject Tracts**"). Intending to be legally bound hereby, the parties agree as follows:

On September 1, 2025, SWN Production Company, LLC merged with and into Expand Appalachia LLC, the surviving entity; and EXE/EQNR and EQT executed an Acreage Trade Agreement on June 27, 2025 ("Trade Agreement") with respect to certain tracts in Marshall and Wetzel Counties, West Virginia, covering the leasehold and fee interests owned by each company, and it has come to EQT's attention that the Subject Tracts, which EQT and EXE/EQNR included in said Trade Agreement, are located within EQT's Energy Cynic South 1-2 Units and Hallibu North Unit (the "**Units**"). EQT plans to drill the above described wells (the "**Wells**") in these Units and the wellbore laterals for such Wells may reach the Subject Tracts prior to EXE/EQNR and EQT closing the aforementioned Trade Agreement. EQT intends to drill the Wells to the Marcellus Formation. As used herein, "**Marcellus Formation**" means all depths and formations from 500' above the top of the Tully formation as seen at 6943' MD in the log for the BIG57H1 well located in Wetzel County, WV (API# 4710302414) down to 200' below the top of the Onondaga formation as seen in the aforementioned well log at a depth of 7117' MD.

Subject to the terms and conditions of this Leasehold Commitment Agreement, EXE/EQNR consents to and grants EQT all of EXE/EQNR's rights to make regulatory permit applications and, upon receipt of all necessary permits and governmental approvals, to proceed to develop such Oil and Gas Leases and Fee Interests and extract, produce and market the Hydrocarbons therefrom.

As noted above, EXE/EQNR and EQT executed a Trade Agreement, and the parties included the Subject Tracts among those interests to be assigned or leased by EXE/EQNR to EQT. Within ten days following the earliest to occur (on a Subject Tract-by-Subject Tract basis) of the following (as applicable, the "**Conveyance Date**"): (a) the date that a Subject Tract is fully and finally excluded from the assignment or lease to occur pursuant to the Trade Agreement;

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Expand Energy Corporation  
10000 Energy Drive / Spring, TX 77389

OFFICE OF THE  
ATTORNEY GENERAL  
STATE OF TEXAS

01/23/2026

or (b) the date that the Trade Agreement is terminated in accordance with its express terms, the following items in clauses (1) and (2) below shall occur (each being deemed to occur simultaneously and each being a condition to the other). For clarity, those Subject Tracts that have not been assigned or leased to EQT pursuant to a Trade Agreement on or before the applicable Conveyance Date are, collectively, the "**EXE/EQNR Remaining Tracts**".

- (1) EQT and EXE/EQNR shall execute, acknowledge, and deliver to one another (i) an assignment, bill of sale, and conveyance pursuant to which EXE/EQNR will assign to EQT all of EXE/EQNR's right, title, and interest in and to the EXE/EQNR Remaining Tracts to which it owns leasehold, limited to the Marcellus Formation, and or (ii) an oil and gas lease pursuant to which EXE/EQNR will lease to EQT all of EXE/EQNR's right, title, and interest in and to the EXE/EQNR Remaining Tracts to which it owns fee interests, limited to the Marcellus Formation.
- (2) EQT shall pay to EXE/EQNR, by wire transfer of immediately available funds to an account designated in writing by EXE/EQNR, an amount equal to (y) the sum of the net acres for the EXE/EQNR Remaining Tracts (which shall be equal to the number set forth in Exhibit "A" under the column heading "Lease Net Acres" for each such EXE/EQNR Remaining Tract), *multiplied by* (z) \$10,000.00.

EQT shall be fully responsible for and shall release, defend, indemnify and hold EXE/EQNR harmless from and against any and all losses, expenses, damages, injuries, claims or obligations and liabilities (including attorneys' fees) arising from or relating to EQT's activities and operations under this Leasehold Commitment Agreement.

This Leasehold Commitment Agreement is governed by the laws of West Virginia. This Leasehold Commitment Agreement may be executed in counterparts, which when taken together, will form one instrument. **Neither Party shall be liable to the other Party for any special, incidental, consequential, punitive or exemplary damages related to, arising out of, or connected with this Leasehold Commitment Agreement.** This Leasehold Commitment Agreement, together with the Trade Agreement, represent the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior verbal and/or written agreements with respect to the subject matter hereof.

If the above terms and conditions of this Leasehold Commitment Agreement are acceptable to you, please indicate your approval in the space provided below and return an executed copy of this Leasehold Commitment Agreement to the attention of the undersigned.

Should you have any questions, please contact the undersigned at (346) 535-0802 or by email at [gavin.nadeau@expandenergy.com](mailto:gavin.nadeau@expandenergy.com).

Respectfully,

Expand Appalachia LLC



Gavin Nadeau, RPL  
Sr. Staff Landman

[SIGNATURE PAGE TO FOLLOW]

EXE:

EXPAND APPALACHIA LLC

By Expand Energy Corporation, sole manager

Signed by:

Derek Cutright

By: Derek Cutright

Its: Vice President

Initial Initial Initial Initial  
YM DW GN PMB

EQNR:

EQUINOR USA ONSHORE PROPERTIES INC.

DocuSigned by:

Eric Luszc

By: Eric Luszc

Its: Manager – Land

Initial  
LB

EQT:

EQT PRODUCTION COMPANY

DocuSigned by:

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

DS DS  
GG ME

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Exhibit "A"

Attachment to and made a part of that certain Leasehold Commitment Agreement, dated October 20, 2025, by and between EXE/EQNR and EQT.

| Original Lessor                  | Original Lessee             | BK/PG              | Lease Effective Date | County | Assigned Gross Acres | Assigned Net Acres | Tracts Conveyed   |
|----------------------------------|-----------------------------|--------------------|----------------------|--------|----------------------|--------------------|-------------------|
| Stone Hill Minerals Holding, LLC | TH EXPLORATION, LLC         | 261A/890           | 5/3/2021             | Wetzel | 1.190485             | 1.190485           | 03-0001-0023-0000 |
| PINEY HOLDINGS INC               | SWN PRODUCTION COMPANY, LLC | 261A/91            | 4/1/2021             | Wetzel | 9.311497             | 9.311497           | 03-0001-0029-0000 |
| Stone Hill Minerals Holding, LLC | TH EXPLORATION, LLC         | 261A/890           | 5/3/2021             | Wetzel | 9.311497             | 0.000000           | 03-0001-0029-0000 |
| KATHERINE SUE WHARTON SOLES      | SWN PRODUCTION COMPANY, LLC | 286A/492           | 1/17/2022            | Wetzel | 2.671395             | 1.335698           | 03-0001-0030-0000 |
| KATHERINE SUE WHARTON SOLES      | SWN PRODUCTION COMPANY, LLC | 286A/492           | 1/17/2022            | Wetzel | 5.537590             | 2.768795           | 03-0005-0006-0000 |
| Expand Appalachia LLC            | N/A (Fee Interest)          | 417/333<br>417/199 | 10/23/2008           | Wetzel | 28.580000            | 4.763334           | 03-0007-0018-0000 |
| Stone Hill Minerals Holding, LLC | TH EXPLORATION, LLC         | 261A/890           | 5/3/2021             | Wetzel | 5.110000             | 5.110000           | 03-0001-0028-0000 |
| Liberty Holding Company Inc      | SWN PRODUCTION COMPANY, LLC | 320A/929           | 3/3/2023             | Wetzel | 16.390000            | 16.390000          | 03-0005-0003-0000 |

40.869809

End of Exhibit "A"

DEC 19 2025  
VW Department of  
Environmental Protection  
Conservation



EQT PRODUCTION COMPANY  
2200 Energy Drive | Canonsburg, PA 15317

December 17, 2025

Via FedEx Overnight Delivery

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

Ch# 609953  
2500.00

RE: Horizontal Well Work Permit Application Modifications  
Energy Cynic 2H, 4H, 6H, 8H, 10H, 12H, 14H & 16H  
Clay District, Wetzel County, WV

WVDEP Recipient,

Attached please find the Well Work Permit Applications for the wells referenced above. You will find the following included with these submittals:

- Checks in the amount of \$2,500.00 for H6A well permit fee for each well
- Completed WW-6B and supporting documents, approved by the O&G Inspector
- Well Location Plats
- Completed Form WW-6A1's and supporting documentation
- Hydraulic Fracturing Monitoring Plan
- Offset Well Maps and Tables

EQT is proposing to extend each lateral from the previously permitted lengths. Please note that EQT is planning to utilize force pooling & has applications currently pending commission review under Docket 435-557 & Docket 435-558.

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

Best Regards,

Olivia Wilson  
Project Specialist – Permitting  
[OPishioneri@eqt.com](mailto:OPishioneri@eqt.com)  
724-250-0180

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