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west virginia department of environmental protection

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

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

Monday, February 24, 2025  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202


Re: Permit Modification Approval for Duke Unit 2H  
47-103-03695-00-00

**Extended Lateral Length**

ANTERO RESOURCES CORPORATION

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

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



James A. Martin  
Chief

Operator's Well Number: Duke Unit 2H  
Farm Name: Dallison Lumber Company  
U.S. WELL NUMBER: 47-103-03695-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 2/24/2025

Promoting a healthy environment.

02/28/2025

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

1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzell Green Pine Grove 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Duke Unit 2H MOD Well Pad Name: Cedar Pad

3) Farm Name/Surface Owner: Dallison Lumber Company Public Road Access: CR 52

4) Elevation, current ground: As-Built - 1248' Elevation, proposed post-construction: \_\_\_\_\_

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 Shale: 7200' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7200' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26400' MD

11) Proposed Horizontal Leg Length: 16848' \*Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 612'

13) Method to Determine Fresh Water Depths: 47103308970000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 2193'

15) Approximate Coal Seam Depths: 1010'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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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*Handwritten signature and date: JMW 2/27/25*

WW-6B  
(04/15)

API NO. 47- 103 - 03695  
 OPERATOR WELL NO. Duke Unit 2H MOD  
 Well Pad Name: Cedar Pad

18)

**CASING AND TUBING PROGRAM**

| <u>TYPE</u>  | <u>Size (in)</u> | <u>New or Used</u> | <u>Grade</u> | <u>Weight per ft. (lb/ft)</u> | <u>FOOTAGE: For Drilling (ft)</u> | <u>INTERVALS: Left in Well (ft)</u> | <u>CEMENT: Fill-up (Cu. Ft.)/CTS</u> |
|--------------|------------------|--------------------|--------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Conductor    | 20"              | New                | J-55         | 94#                           | 100'                              | 100'                                | CTS, 96 Cu. Ft.                      |
| Fresh Water  | 13-3/8"          | New                | J-55         | 54.5#                         | 662'                              | 662'                                | CTS, 690 Cu. Ft.                     |
| Coal         | 9-5/8"           | New                | J-55         | 36#                           | 3200'                             | 3200'                               | CTS, 1303 Cu. Ft.                    |
| Intermediate |                  |                    |              |                               |                                   |                                     |                                      |
| Production   | 5-1/2"           | New                | P110-ICY     | 23#                           | 26400'                            | 26400'                              | CTS, 5725 Cu. Ft.                    |
| Tubing       | 2-3/8"           | New                | N-80         | 4.7#                          |                                   |                                     |                                      |
| Liners       |                  |                    |              |                               |                                   |                                     |                                      |

| <u>TYPE</u>  | <u>Size (in)</u> | <u>Wellbore Diameter (in)</u> | <u>Wall Thickness (in)</u> | <u>Burst Pressure (psi)</u> | <u>Anticipated Max. Internal Pressure (psi)</u> | <u>Cement Type</u> | <u>Cement Yield (cu. ft./k)</u> |
|--------------|------------------|-------------------------------|----------------------------|-----------------------------|---|--------------------|---------------------------------|
| Conductor    | 20"              | 24"                           | 0.375"                     | 2250                        | 50  | Class A/L          | ~1.18                           |
| Fresh Water  | 13-3/8"          | 17-1/2"                       | 0.38"                      | 2730                        | 1000  | Class A/L          | ~1.18                           |
| Coal         | 9-5/8"           | 12-1/4"                       | 0.352"                     | 3520                        | 1500  | Class A/L          | ~1.18                           |
| Intermediate |                  |                               |                            |                             |   |                    |                                 |
| Production   | 5-1/2"           | 8-3/4" & 8-1/2"               | 0.415"                     | 14,360                      | 2500  | Class G/H          | ~1.8                            |
| Tubing       | 2-3/8"           | 4.778"                        | 0.19"                      | 11,200                      |   |                    |                                 |
| Liners       |                  |                               |                            |                             |   |                    |                                 |

**PACKERS**

|             |     |  |  |  |
|-------------|-----|--|--|--|
| Kind:       | N/A |  |  |  |
| Sizes:      | N/A |  |  |  |
| Depths Set: | N/A |  |  |  |

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*Handwritten signature and date: 2/27/25*

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the Marcellus Shale.

\*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs  
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 71.85 acres

22) Area to be disturbed for well pad only, less access road (acres): 18.45 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers  
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.  
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.  
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

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

Conductor: no additives, Class A/L cement.  
Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake  
Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat  
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51  
Production: Tail cement- Class G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.  
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.  
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.

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Page 3 of 3

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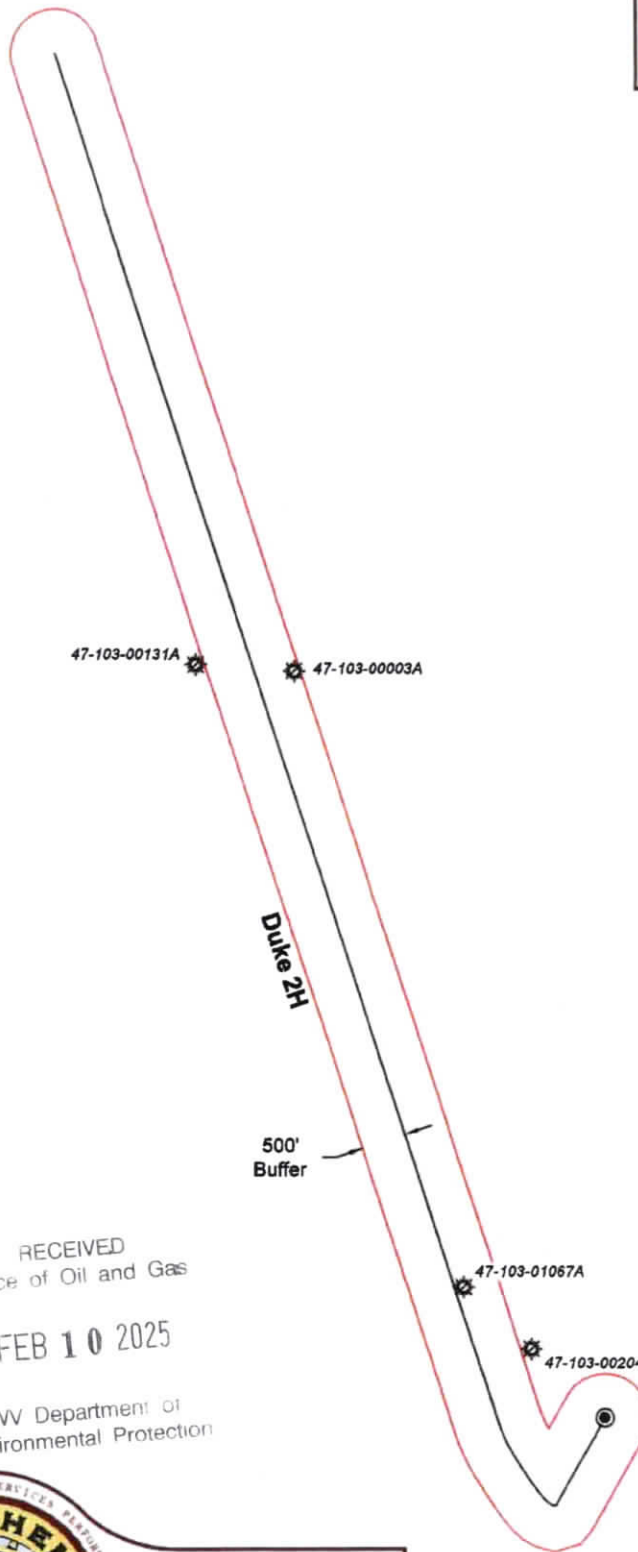
*Handwritten signature and date:*  
2/28/25

**LEGEND**

- ⊙ Proposed gas well
- ⊛ Existing Well, as noted
- ⊛ Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



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WV Department of  
Environmental Protection



Bridgeport Office  
Phone: (304) 848-5035  
Fax: (304) 848-5037

172 Thompson Drive  
Bridgeport, WV 26330

|                        |                            |
|------------------------|----------------------------|
| PARTY CHIEF: C. Lynch  | DRAWN BY: C. Robinson      |
| RESEARCH: J. Miller    | PREPARED: December 4, 2024 |
| SURVEYED: Dec. 2016    | PROJECT NO: 118-34-G-18    |
| FIELD CREW: C.L., K.M. | DRAWING NO: Duke 2HAOR     |

Sheet 1 of 1



Scale: 1 inch = 2000 feet

02/28/2025

| UWI (APINum)   | Well Name              | Well Number | Operator              | Historical Operator   | TD    | Perforated Interval (shallowest, deepest) | Perforated Formation(s)            | Producible Formation(s) not perf'd |
|----------------|------------------------|-------------|-----------------------|-----------------------|-------|---|------------------------------------|------------------------------------|
| 47103001310000 | HOSTUTLER J            | 1           | PILLAR ENERGY LLC     |                       |       |   |                                    |                                    |
| 47103000030000 | S ASHCRAFT C SNODGRASS | 1           | UNKNOWN               | UNKNOWN               | 3,248 |   | Thirty Foot, 4th Salt Sand, Bayard | Weir, Benson, Alexander            |
| 47103010670000 | PETERSON B W           | 93          | PENNZOIL CO INC       | PENNZOIL CO INC       | 3,177 |   |                                    |                                    |
| 47103002040000 | M LANTZ 3              | 3561        | MANUFACT LIGHT & HEAT | MANUFACT LIGHT & HEAT | 3,074 |   | Gordon                             | Weir, Benson, Alexander            |

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 A Department of  
 Environmental Protection

**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 |
|-------------------------------------|-----------------------|------------------------------|---------|-----------|
| <b>A: Sylvia Jean Highley Lease</b> |                       |                              |         |           |
|                                     | Sylvia Jean Highley   | Antero Resources Corporation | 1/8+    | 296A/0604 |

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

\*Co-tenancy utilization – Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with the development of certain royalty owners' interests in this tract.

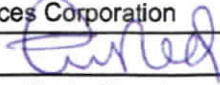
\*\*Pooling/Utilization – Antero has filed a horizontal well utilization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract.

**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: Antero Resources Corporation  
 By: Tim Rady   
 Its: Senior Vice President of Land

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West Virginia  
Environmental Protection

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
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| Grantor, lessor, etc.                       | Grantee, lessee, etc.                     | Royalty     | Book/Page |
|---|---|-------------|-----------|
| <b><u>R: Jenkins Miller Lease</u></b>       |   |             |           |
| Jenkins Miller                              | Hope Natural Gas Company                  | 1/8         | 0107/0056 |
| Hope Natural Gas Company                    | Consolidated Gas Supply Corporation       | Assignment  | 0233/0387 |
| Consolidated Gas Supply Corporation         | Consolidated Gas Transmission Corporation | Assignment  | 066A/0069 |
| Consolidated Gas Transmission Corporation   | Eastern States Oil & Gas Inc              | Assignment  | 076A/0232 |
| Eastern States Oil & Gas Inc                | Blazer Energy Corp                        | Merger      | 0012/0253 |
| Blazer Energy Corp                          | Eastern States Oil & Gas Inc              | Name Change | 0012/0259 |
| Eastern States Oil & Gas Inc                | Equitable Production- Eastern States INC  | Name Change | WVSOS     |
| Equitable Production- Eastern States INC    | Appalachian Natural Gas Trust             | Assignment  | 079A/0244 |
| Appalachian Natural Gas Trust               | EQT Production Company                    | Merger      | 0096/0505 |
| EQT Production Company                      | Antero Resources Corporation              | Assignment  | 230A/0801 |
| <b><u>Q: Antero Minerals, LLC Lease</u></b> |   |             |           |
| Antero Minerals, LLC                        | Antero Resources Corporation              | 1/8+        | 250A/0847 |
| <b><u>N: Antero Minerals, LLC Lease</u></b> |   |             |           |
| Antero Minerals, LLC                        | Antero Resources Corporation              | 1/8+        | 250A/0847 |
| <b><u>L: Antero Minerals, LLC Lease</u></b> |   |             |           |
| Antero Minerals, LLC                        | Antero Resources Corporation              | 1/8+        | 250A/0847 |
| <b><u>I: Acropolis, Inc. Lease</u></b>      |   |             |           |
| Acropolis, Inc.                             | Antero Resources Corporation              | 1/8+        | 291A/0003 |
| <b><u>G: Russell T. Powell Lease</u></b>    |   |             |           |
| Russell T. Powell                           | Antero Resources Corporation              | 1/8+        | 331A/0172 |
| <b><u>D: Shiben Estates, Inc. Lease</u></b> |   |             |           |
| Shiben Estates, Inc.                        | Antero Resources Corporation              | 1/8+        | 312A/0021 |
| <b><u>B: Belinda K. Harrison Lease</u></b>  |   |             |           |
| Belinda K. Harrison                         | Antero Resources Corporation              | 1/8+        | 345A/0753 |
| <b><u>C: Elizabeth P. Orner Lease</u></b>   |   |             |           |
| Elizabeth P. Orner                          | Pikewood Energy Corporation               | 1/8+        | 270A/0565 |
| Pikewood Energy Corporation                 | Antero Resources Corporation              | Assignment  | 276A/0939 |
| <b><u>B: Belinda K. Harrison Lease</u></b>  |   |             |           |
| Belinda K. Harrison                         | Antero Resources Corporation              | 1/8+        | 345A/0753 |

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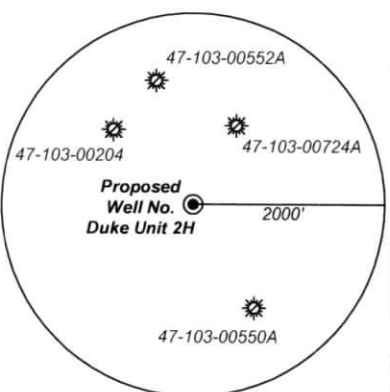


- Legend**
- Proposed gas well
  - Monument, as noted
  - Existing Well, as noted
  - Digitized Well, as noted
  - Creek or Drain
  - Road
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)

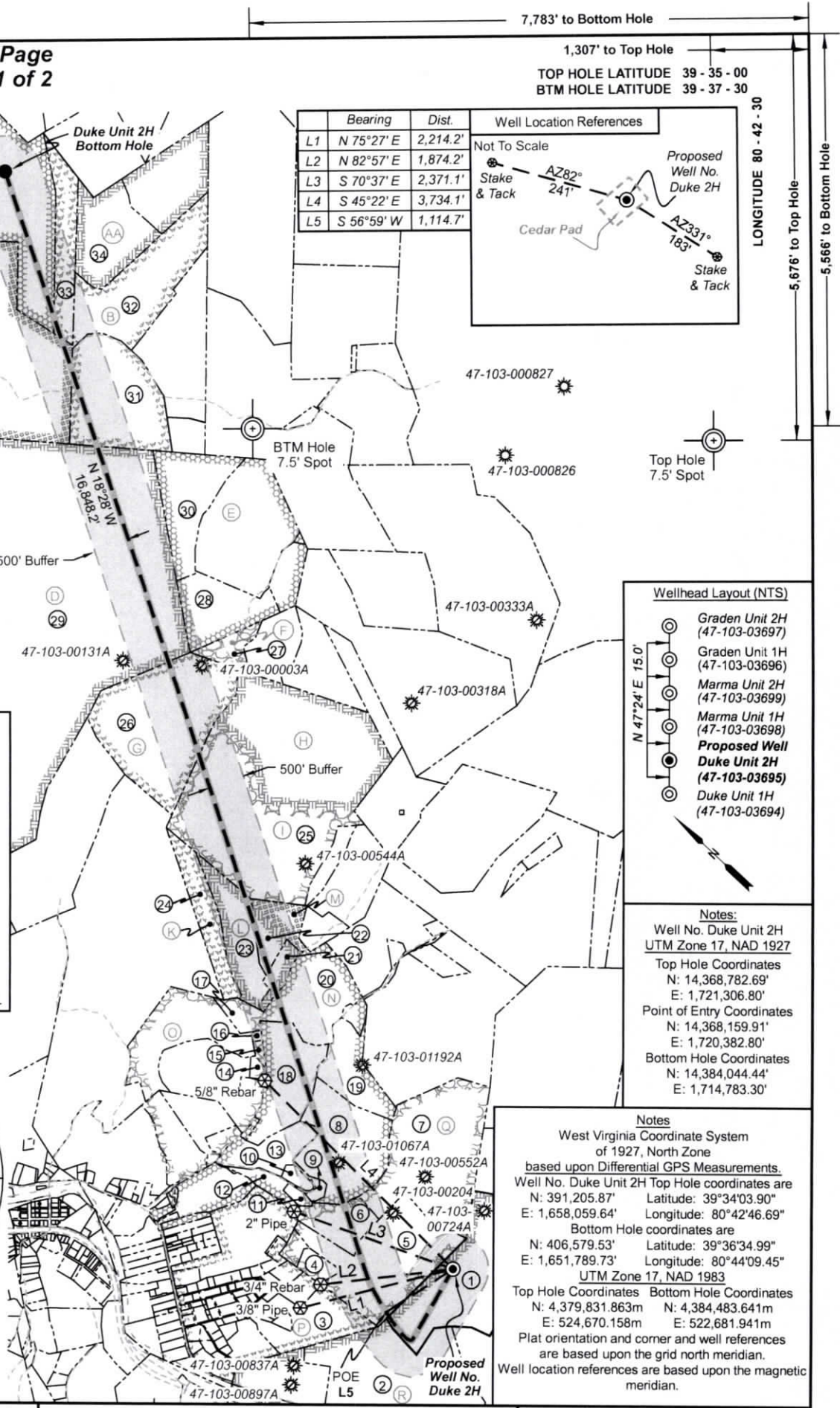
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*

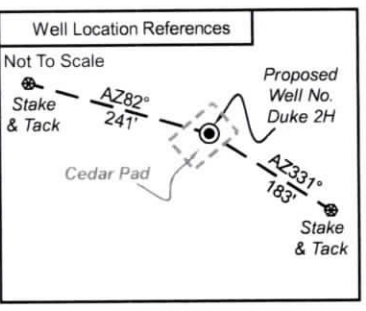
Bradley D. Miller, P.S. 2167



Note: No water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



| Bearing       | Dist.    |
|---------------|----------|
| L1 N 75°27' E | 2,214.2' |
| L2 N 82°57' E | 1,874.2' |
| L3 S 70°37' E | 2,371.1' |
| L4 S 45°22' E | 3,734.1' |
| L5 S 56°59' W | 1,114.7' |



7,783' to Bottom Hole

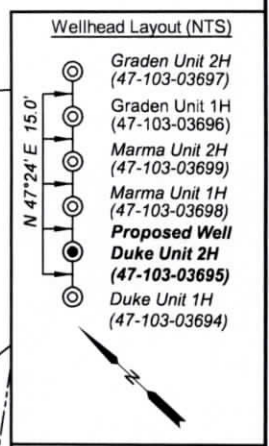
1,307' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00  
 BTM HOLE LATITUDE 39 - 37 - 30

LONGITUDE 80 - 42 - 30

5,676' to Top Hole

5,566' to Bottom Hole



**Notes:**  
 Well No. Duke Unit 2H  
 UTM Zone 17, NAD 1927  
 Top Hole Coordinates  
 N: 14,368,782.69'  
 E: 1,721,306.80'  
 Point of Entry Coordinates  
 N: 14,368,159.91'  
 E: 1,720,382.80'  
 Bottom Hole Coordinates  
 N: 14,384,044.44'  
 E: 1,714,783.30'

**Notes**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Duke Unit 2H Top Hole coordinates are  
 N: 391,205.87' Latitude: 39°34'03.90"  
 E: 1,658,059.64' Longitude: 80°42'46.69"  
 Bottom Hole coordinates are  
 N: 406,579.53' Latitude: 39°36'34.99"  
 E: 1,651,789.73' Longitude: 80°44'09.45"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,379,831.863m N: 4,384,483.641m  
 E: 524,670.158m E: 522,681.941m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

FILE NO: 118-34-G-18  
 DRAWING NO: Duke Unit 2H Well Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: December 19 2024  
 OPERATOR'S WELL NO. Duke Unit 2H  
**API WELL NO**  
 47 - 103 - 03695  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built 1,248 WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
 DISTRICT: Green COUNTY: Wetzel **02/28/2025**  
 SURFACE OWNER: Dallison Lumber Company ACREAGE: 51.50  
 ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,200' TVD  
 26,400' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
 Denver, CO 80202 Bridgeport, WV 26330



| Leases |                            |
|--------|----------------------------|
| A      | Sylvia Jean Highley        |
| B      | Belinda K. Harrison        |
| C      | Elizabeth P. Orner         |
| D      | Shiben Estates, Inc.       |
| E      | Chesapeake Appalachia, LLC |
| F      | Chesapeake Appalachia, LLC |
| G      | Russell T. Powell          |
| H      | Acropolis, Inc.            |
| I      | Acropolis, Inc.            |
| K      | WSD Properties             |
| L      | Antero Minerals, LLC       |
| M      | Acropolis, Inc.            |
| N      | Antero Minerals, LLC       |
| O      | Antero Minerals, LLC       |
| P      | Antero Minerals, LLC       |
| Q      | Antero Minerals, LLC       |
| R      | Jenkins Miller             |
| AA     | Jay H. Renner              |

| ID | TM-Par  | Owner                                  | Bk/Pg   | Acres  |
|----|---------|--|---------|--------|
| 1  | 14-19   | Dallison Lumber Company                | 357/267 | 51.50  |
| 2  | 13-83   | Michelle L. Igleheart                  | 493/370 | 58.00  |
| 3  | 13-54   | Kenneth & Loraine Highley              | 230/93  | 20.17  |
| 4  | 13-39   | Ruth E. Staley                         | 512/286 | 3.13   |
| 5  | 13-40   | Kenneth E. & Vicky A. VanDyne          | 357/204 | 42.33  |
| 6  | 13-34   | Kenneth E. & Vicky A. VanDyne          | 357/204 | 14.50  |
| 7  | 13-26.7 | John Michael & Stanley Dale Pittman    | 458/837 | 55.00  |
| 8  | 13-26   | John M. & Stanley D. Pittman           | 458/837 | 30.52  |
| 9  | 13-26.1 | John Michael & Stanley Dale Pittman    | 458/837 | 1.50   |
| 10 | 13-26.8 | Robert N. & Joyce E. C. Edgell         | 312/523 | 2.01   |
| 11 | 13-34.1 | John Michael & Stanley Dale Pittman    | 458/837 | 1.50   |
| 12 | 13-34   | Kenneth E. & Vicky A. VanDyne          | 357/204 | 14.50  |
| 13 | 13-26.5 | Stanley D. & Mary Jo Pittman           | 284/657 | 14.72  |
| 14 | 13-14.5 | Donald L. & Ellen H. Anderson          | 335/203 | 1.50   |
| 15 | 13-14.4 | Jack & Neal A. Cain                    | 401/433 | 0.62   |
| 16 | 13-14.2 | Jack & Neal A. Cain                    | 401/433 | 0.42   |
| 17 | 13-14.3 | Robert & Thomas Adams                  | W116/19 | 4.88   |
| 18 | 13-26.6 | Stanley & Mary Jo Pittman              | 284/657 | 27.38  |
| 19 | 13-15.2 | Blue Racer Midstream, LLC              | 452/546 | 20.00  |
| 20 | 13-15   | Blue Racer Midstream, LLC              | 452/542 | 22.59  |
| 21 | 13-9.1  | Karen Sue Bassett & Terry E. Roberts   | 339/469 | 4.63   |
| 22 | 13-9    | Terry E. & Justin W. Roberts           | 394/528 | 11.70  |
| 23 | 13-8    | Richard W. Roberts & Justin W. Roberts | 394/526 | 22.00  |
| 24 | 9-51    | WSD Properties LLC                     | 441/770 | 13.50  |
| 25 | 9-42    | WSD Properties LLC                     | 441/793 | 149.00 |
| 26 | 9-41    | WSD Properties LLC                     | 441/793 | 48.00  |
| 27 | 9-29    | Richard David Hornbeck                 | 334/514 | 7.50   |
| 28 | 9-28    | Richard David Hornbeck                 | 334/514 | 18.75  |
| 29 | 9-14    | Teresa Ann Ice                         | 494/650 | 449.48 |
| 30 | 8-28    | Timothy S. Harrison                    | 408/280 | 25.05  |
| 31 | 8-8     | Belinda Harrison                       | 493/544 | 38.75  |
| 32 | 3-38    | Julie Marie Lemons                     | 493/298 | 39.75  |
| 33 | 3-39    | Timothy Scott Harrison                 | 493/300 | 25.25  |
| 34 | 3-29    | Linda Kaye Gordon                      | 482/473 | 26.00  |
| 35 | 3-37    | Richard D. Hornbeck                    | 483/191 | 118.00 |
| 36 | 3-28    | Richard D. Hornbeck                    | 483/191 | 120.00 |

FILE NO: 118-34-G-18  
DRAWING NO: Duke Unit 2H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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

DATE: December 19 2024  
OPERATOR'S WELL NO. Duke Unit 2H  
API WELL NO  
47 - 103 - 03695  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built 1,248 WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
DISTRICT: Green COUNTY: Wetzel 02/28/2025  
SURFACE OWNER: Dallison Lumber Company ACREAGE: 51.50  
ROYALTY OWNER: Jenkins Miller LEASE NO: ACREAGE: 200  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,200' TVD 26,400' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330