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west virginia department of environmental protection

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

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

Tuesday, November 14, 2023  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for DIXIE UNIT 2H  
47-017-06959-00-00

**Lateral Extension**

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.

A blue ink signature of James A. Martin, Chief, is written above his name and title.

James A. Martin  
Chief

Operator's Well Number: DIXIE UNIT 2H  
Farm Name: ANTERO RESOURCES CORPORATION  
U.S. WELL NUMBER: 47-017-06959-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 11/14/2023

Promoting a healthy environment.

11/17/2023

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

1) Well Operator: Antero Resources Corporation 494507062 017-Doddrige W. Union West Union 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Dixie Unit 2H MOD Well Pad Name: Genevieve Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: WV Route 18 N

4) Elevation, current ground: 886' Elevation, proposed post-construction: \_\_\_\_\_

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

Other \_\_\_\_\_

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

Horizontal  \_\_\_\_\_

CK# 4025050  
CK# 7,500.00

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 7000' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 7000' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17200' MD

11) Proposed Horizontal Leg Length: 8979.3'

12) Approximate Fresh Water Strata Depths: 414, 516'

13) Method to Determine Fresh Water Depths: 47-017-02289, 47-017-02319 and 47-017-02317

14) Approximate Saltwater Depths: 1468'

15) Approximate Coal Seam Depths: None Identified

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: \_\_\_\_\_

WW-6B  
(04/15)

4701706959

API NO. 47-017

OPERATOR WELL NO. Dixie Unit 2H MOD

Well Pad Name: Genevieve Pad

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    | 20"       | New         | H-40  | 94#                    | 100'                       | 100'                         | CTS, 96 Cu. Ft.               |
| Fresh Water  | 13-3/8"   | New         | J-55  | 54.5#                  | 566'                       | 566'                         | CTS, 590 Cu. Ft.              |
| Coal         | 9-5/8"    | New         | J-55  | 36#                    | 2500'                      | 2500'                        | CTS, 1018 Cu. Ft.             |
| Intermediate |           |             |       |                        |                            |                              |                               |
| Production   | 5-1/2"    | New         | P-110 | 23#                    | 17200'                     | 17200'                       | CTS, 3406 Cu. Ft.             |
| Tubing       | 2-3/8"    | New         | N-80  | 4.7#                   |                            |                              |                               |
| Liners       |           |             |       |                        |                            |                              |                               |

*Ernest L. Reynolds* 11-3-23

| 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    | 20"       | 24"                    | 0.438"              | 1530                 | 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"              | 12,630               | 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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WW-6B  
(10/14)

4701706959  
API NO. 47-017  
OPERATOR WELL NO. Dixie Unit 2H MOD  
Well Pad Name: Genevieve Pad

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

Drill, perforate, fracture a new vertical shallow well and complete Marcellus Shale.

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): 24.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.69 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.

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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 H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

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WV Department of  
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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.

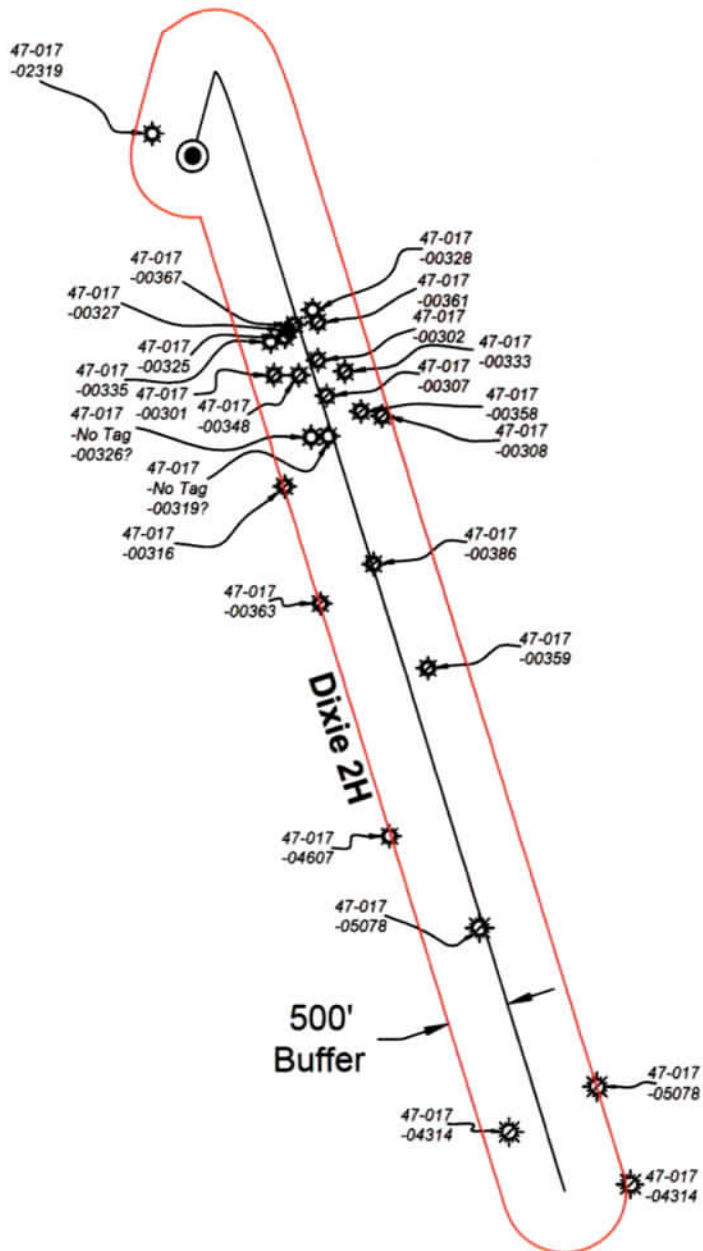
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.

4701706959

**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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500'  
Buffer

Dixie 2H

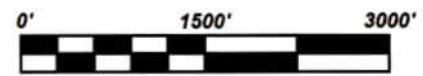


Bridgeport Office  
Phone: (304) 848-5035  
Fax: (304) 848-5037

172 Thompson Drive  
Bridgeport, WV 26330

|                        |                          |
|------------------------|--------------------------|
| PARTY CHIEF: C. Lynch  | DRAWN BY: J. Smith       |
| RESEARCH: J. Miller    | PREPARED: July 5, 2023   |
| SURVEYED: Dec. 2016    | PROJECT NO: 58-30-WU-14  |
| FIELD CREW: C.L., K.M. | DRAWING NO: Dixie 2H AOR |

Sheet 1 of 1



Scale: 1 inch = 1500 feet

11/17/2023

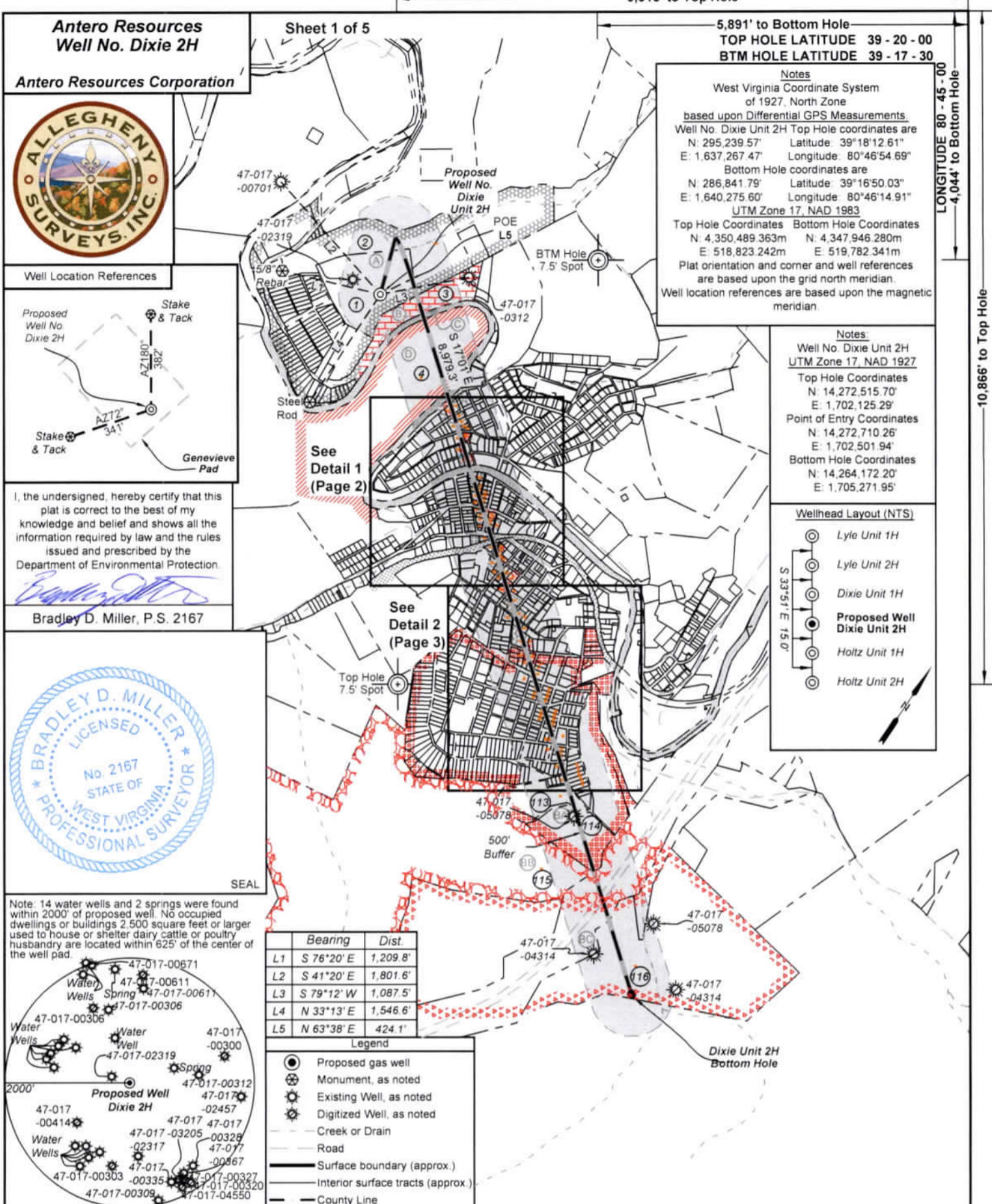
4701706959

| UWI (API#)     | Well Name              | Well Number | Operator              | Historical Operator  | TD    | Perforated Interval (shallowest, deepest) | Perforated Formation(s)                      | Produced Formation(s) not perf'd          |
|----------------|------------------------|-------------|-----------------------|----------------------|-------|---|--|---|
| 47017023190000 | BETTY JANE LANGFITT    | 1           | PILAR ENERGY LLC      | KEY OIL INC          | 5,241 | 5080 - 5146                               | Alexander                                    | Warren, Speechly, Balltown, Riley, Benson |
| 47017003670000 | E FLOWERS&P D FARR     | 1           | ALLEN THOMAS E        | ALLEN THOMAS E       | 1,830 |   | Maxton, Big Lime, Big Injun                  | Warren, Speechly, Balltown, Riley, Benson |
| 47017003270000 | EARL DOTSON            | 1           | BINGHAM A M           | ROBERTS & YEATER     | 1,871 |   | Big Injun                                    | Warren, Speechly, Balltown, Riley, Benson |
| 47017003250000 | GRACE M SLAUGHTER      | 1           | BIG INJUN DRLG        | BIG INJUN DRLG       | 1,824 |   | Maxton, Big Injun                            | Alexander, Gordon, Berea                  |
| 47017003350000 | LOTTIE OSBOURNE        | 1           | DRILLING APPALACHIAN  | OSBOURN OIL & GAS    | 1,866 |   | Big Injun                                    | Alexander, Gordon, Berea                  |
| 47017003010000 | HAUGHT                 | 1           | INCO 3 INC            | INCO 3 INC           | 1,789 |   | Keener                                       | Alexander, Gordon, Berea                  |
| 47017003480000 | CONNOLLY & MYER        | 1           | ANDERSON DRLG CO      | ANDERSON DRLG CO     | 1,920 |   | Maxton, Big Injun                            | Alexander, Gordon, Berea                  |
| 47017003260000 | HENRY FREY             | 1           | DROPPLEMAN & GR       | DROPPLEMAN & GR      | 1,836 |   | Big Injun                                    | Warren, Speechly, Balltown, Riley, Benson |
| 47017003190000 | DESSIE DODD            | 1           | UNKNOWN               | UNKNOWN              |       |   |  |   |
| 47017003160000 | ORAL MORAN             | 1           | UNKNOWN               | UNKNOWN              | 1,816 |   | Big Injun                                    | Warren, Speechly, Balltown, Riley, Benson |
| 47017003630000 | HARRY E CLINE          | 1           | HUNTER R J            | HUNTER R J           | 1,971 |   | Maxton, Big Injun                            | Warren, Speechly, Balltown, Riley, Benson |
| 47017046070000 | STUART W S             | 1           | KEY OIL CO            | KEY OIL CO           | 5,418 |   | Warren, Speechley, Riley, Benson, Alexander  | Gordon, Berea                             |
| 47017050780000 | CHEUVRONT/FARR         | 4           | KEY OIL CO            | KEY OIL CO           | 2,596 |   | Big Injun, Squaw, Gordon, Fifth              | Alexander, Berea                          |
| 47017043140000 | FARR C TRUST           | 6           | HARPER CROSBY HOLDING | RARE EARTH MINERALS  | 2,590 |   | Gordon                                       | Warren, Speechly, Balltown, Riley, Benson |
| 47017003280000 | KENNETH B PIERCE       | 1           | STONESTREET LANDS     | STONESTREET LANDS    | 1,736 |   | Big Injun                                    | Warren, Speechly, Balltown, Riley, Benson |
| 47017003610000 | C GARNER               | 1           | STONESTREET LANDS     | STONESTREET LANDS    |       |   |  |   |
| 47017003020000 | EVERETT SCOTT          | 1           | SPENCER HUGH K ET AL  | SPENCER HUGH K ET AL | 1,823 |   | Big Lime                                     | Alexander, Berea                          |
| 47017003330000 | N F HUFFMAN&C O TRAVIS | 1           | ALLEN THOMAS E        | ALLEN THOMAS E       | 1,818 |   | Pennsylvania System, Salt Sands, Big Injun   | Warren, Speechley                         |
| 47017003070000 | BEULAH R SMITH         | 1           | TOWER SERVICE         | TOWER SERVICE        | 1,862 |   | Big Injun                                    | Alexander, Berea                          |
| 47017003580000 | JOSIE VANSOY           | 1           | WARREN & CROWELL      | WARREN & CROWELL     | 1,800 |   | Blue Monday, Big Injun                       | Alexander, Gordon, Berea                  |
| 47017003080000 | BEULAH R SMITH         | 2           | TOWER SERVICE         | TOWER SERVICE        | 1,825 |   | Big Injun                                    | Alexander, Gordon, Berea                  |
| 47017003860000 | KATE A SPELLACY        | 1           | GARRETSON & EDWARDS   | GARRETSON & EDWARDS  |       |   |  |   |
| 47017003590000 | WILLIAM A HAYHURST     | 1           | UNKNOWN               | UNKNOWN              | 1,875 |   | Maxton, Big Lime, Big Injun                  | Alexander, Gordon, Berea                  |
| 47017050780000 | CHEUVRONT/FARR         | 4           | KEY OIL CO            | KEY OIL CO           | 2,596 | 1776 - 2494                               | Mauch Chunk, Big Injun, Squaw, Gordon, Fifth | Alexander, Gordon, Berea                  |
| 47017043140000 | FARR C TRUST           | 6           | HARPER CROSBY HOLDING | RARE EARTH MINERALS  | 2,590 | 2240 - 2240                               | Gordon                                       | Alexander, Berea                          |

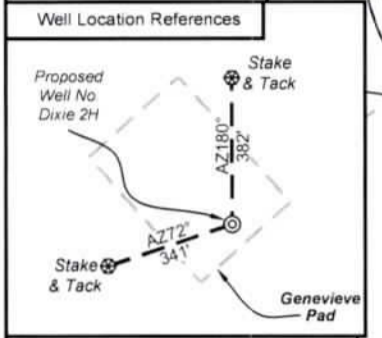
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**Antero Resources**  
Well No. Dixie 2H



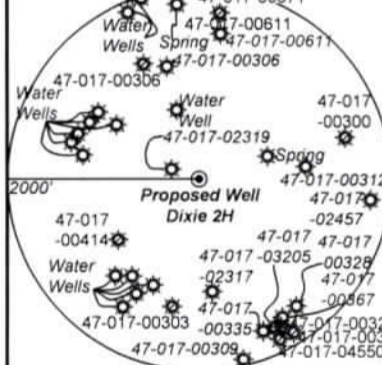
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Bradley D. Miller*

Bradley D. Miller, P.S. 2167



Note: 14 water wells and 2 springs 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 S 76°20' E | 1,209.8' |
| L2 S 41°20' E | 1,801.6' |
| L3 S 79°12' W | 1,087.5' |
| L4 N 33°13' E | 1,546.6' |
| L5 N 63°38' E | 424.1'   |

- 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.)
  - County Line

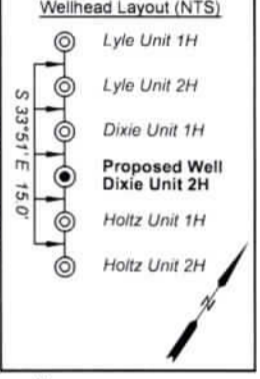
9,015' to Top Hole

5,891' to Bottom Hole

TOP HOLE LATITUDE 39 - 20 - 00  
BTM HOLE LATITUDE 39 - 17 - 30

Notes  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Dixie Unit 2H Top Hole coordinates are N: 295,239.57' Latitude 39°18'12.61" E: 1,637,267.47' Longitude 80°46'54.69"  
Bottom Hole coordinates are N: 286,841.79' Latitude 39°16'50.03" E: 1,640,275.60' Longitude 80°46'14.91"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,350,489.363m N: 4,347,946.280m  
E: 518,823.242m E: 519,782.341m  
Plat orientation and corner and well references are based upon the grid north meridian.  
Well location references are based upon the magnetic meridian.

Notes  
Well No. Dixie Unit 2H UTM Zone 17, NAD 1927  
Top Hole Coordinates  
N: 14,272,515.70'  
E: 1,702,125.29'  
Point of Entry Coordinates  
N: 14,272,710.26'  
E: 1,702,501.94'  
Bottom Hole Coordinates  
N: 14,264,172.20'  
E: 1,705,271.95'



FILE NO: 58-30-WU-14  
DRAWING NO: Dixie Unit 2H Well Plat  
SCALE: 1" = 1500'  
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: October 24 2023  
OPERATOR'S WELL NO. Dixie Unit 2H  
API WELL NO  
47 - 017 - 06959  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Doddridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,200' 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

11/17/2023

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Detail 1  
(NTS)

FILE NO: 58-30-WU-14  
DRAWING NO: Dixie Unit 2H Well Plat  
SCALE: 1" = 1500'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA  
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47 - 017 - 06959  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Boone  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90  
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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330

11/17/2023



Antero Resources  
Well No. Dixie 2H

Sheet 3 of 5

Antero Resources Corporation

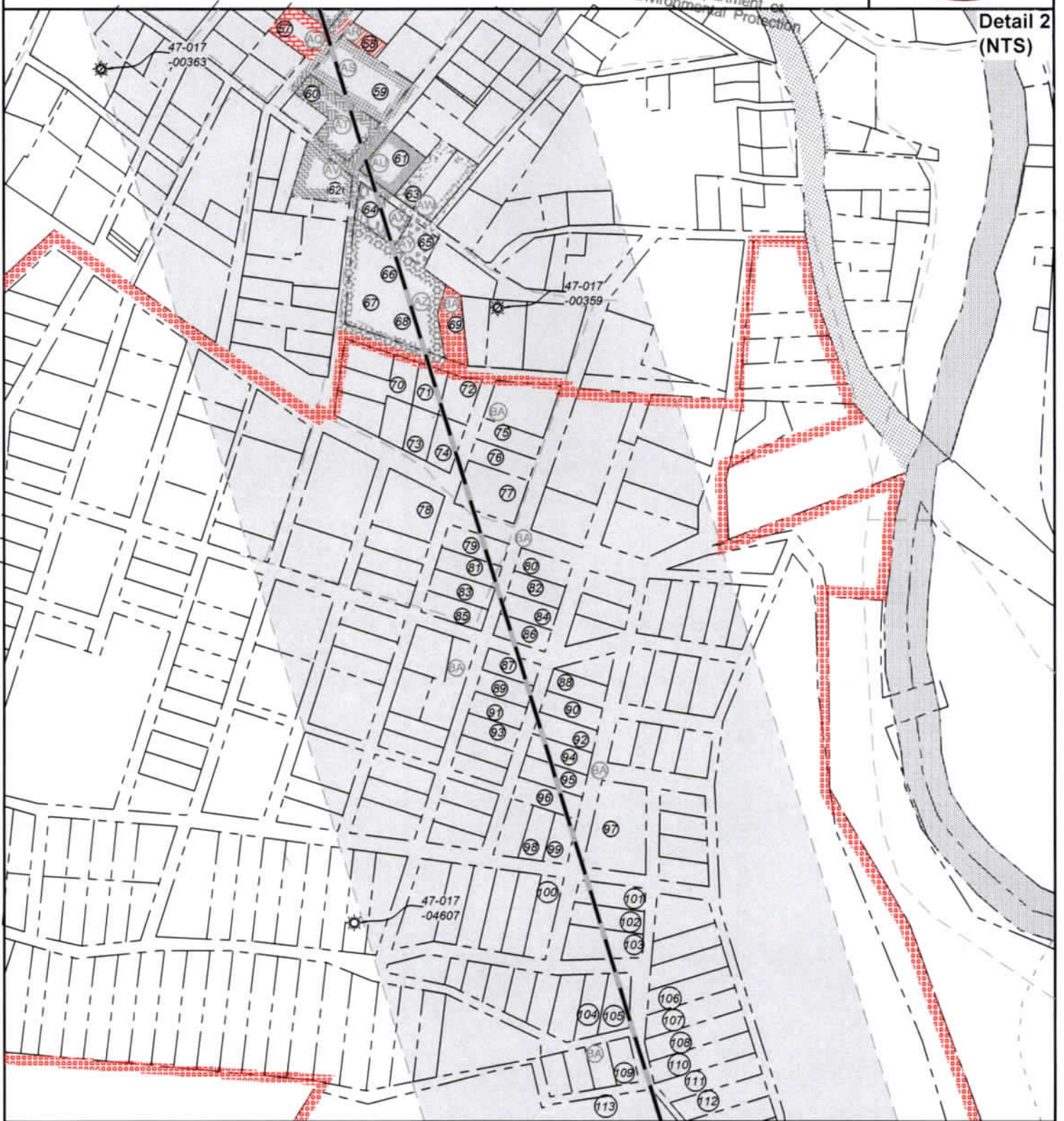


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Environmental Protection

Detail 2  
(NTS)



FILE NO: 58-30-WU-14  
DRAWING NO: Dixie Unit 2H Well Plat  
SCALE: 1" = 1500'  
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: October 24 2023  
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API WELL NO  
47 - 017 - 06959  
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Doddridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90  
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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330

Antero Resources Corporation



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Environmental Protection

| Leases |  |
|--------|--|
| A      | Claude F. Smith, et ux                 |
| B      | Harret B. Jarvis, et al                |
| C      | WVDNR                                  |
| D      | J.M.L. Smith                           |
| E      | Donald R. Dotson, Jr., et ux           |
| F      | Ronda Jean Adkins                      |
| G      | Argil Waine Nicholson II, et ux        |
| H      | Stephen M. & Cathy Jo Ash              |
| I      | Shirley M. Smith                       |
| J      | Sharon E. Walker & Ron Burns           |
| K      | Pooled Tract                           |
| L      | Pooled Tract                           |
| M      | Lorelei F. Phillips                    |
| N      | Doris K. Sheets                        |
| O      | Mary Jane Staats                       |
| P      | Dorothy L. & F. Thomas Cross Jr.       |
| Q      | Gary Fox, et ux                        |
| R      | West Union First Assembly of God       |
| S      | Webb & Sons Holdings, LLC              |
| T      | West Union First Assembly of God       |
| U      | CGP Development Co. Inc.               |
| V      | CGP Development Co. Inc.               |
| W      | Timothy C. Phillips                    |
| X      | Doris J. Roberts-Gump                  |
| Y      | Timothy C. Phillips                    |
| Z      | Richard C. Beck, et al                 |
| AA     | Doddridge County Senior Citizens, Inc. |

| Leases |                                 |
|--------|---------------------------------|
| AB     | James A. & Connie Jo Brannam    |
| AC     | WV State Rail Authority         |
| AD     | Francis J. Noll                 |
| AE     | Mark Alan Willis                |
| AF     | Pooled Tract                    |
| AG     | Pooled Tract                    |
| AH     | West Union Baptist Church       |
| AI     | West Union Baptist Church       |
| AJ     | West Union Baptist Church       |
| AK     | Pooled Tract                    |
| AL     | Joseph R. Thorpe, et ux         |
| AM     | Pooled Tract                    |
| AN     | Pooled Tract                    |
| AO     | Pooled Tract                    |
| AP     | Pooled Tract                    |
| AQ     | Pooled Tract                    |
| AR     | Howard D. Spurlock, II          |
| AS     | Elizabeth W. Romine             |
| AT     | Virginia L. Nicholson           |
| AU     | Emmanuel UM Church              |
| AV     | Emmanuel UM Church              |
| AW     | Emmanuel UM Church              |
| AX     | Volusia Ventures, LLC           |
| AY     | Lynn R. Ireland Sr.             |
| AZ     | Mary A. Stuart, et al           |
| BA     | Mary A. Stuart, et al           |
| BB     | Celia Schulte & Hazel B. Butler |
| BC     | Joseph Cheuvront & W.S. Stuart  |

FILE NO: 58-30-WU-14  
DRAWING NO: Dixie Unit 2H Well Plat  
SCALE: 1" = 1500'  
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: October 24 2023  
OPERATOR'S WELL NO. Dixie Unit 2H  
API WELL NO  
47 - 017 - 06959  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union  
DISTRICT: West Union Antero COUNTY: Doddridge  
SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,200' 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


Antero Resources Corporation



RECEIVED  
Office of Oil and Gas  
OCT 26 2023  
WV Department of  
Environmental Protection

| ID | TM-Par  | Owner                                  | Bk/Pg    | Acres |
|----|---------|--|----------|-------|
| 1  | 11-3    | Antero Resources Corp.                 | 431/528  | 16.50 |
| 2  | 11-4    | Paul D. & Sharon K. Weekley            | 186/743  | 17.30 |
| 3  | 11-4-1  | Mary Lou Holland                       | 286/313  | 9.55  |
| 4  | 11-13   | Frank E. McGill                        | 429/448  | 58.55 |
| 5  | 1-134   | Donald R. Jr. & Teresa Dotson          | 406/122  | 0.31  |
| 6  | 1-136   | Lena McAllister, et al                 | 136/2    | 0.26  |
| 7  | 1-138   | Argil Waine, II & Angela D. Nicholson  | 257/538  | 0.19  |
| 8  | 1-140   | Argil Waine, II & Angela D. Nicholson  | 257/538  | 0.22  |
| 9  | 1-142.1 | Stephen M. & Cathy Jo Ash              | 236/602  | 0.33  |
| 10 | 1-140.1 | Argil Waine, II & Angela D. Nicholson  | 257/538  | 0.11  |
| 11 | 1-142   | Shirley Ann Smith                      | 306/75   | 0.09  |
| 12 | 3-7     | Sharon E. Walker & Ron Burns           | 303/705  | 0.22  |
| 13 | 3-7.2   | Guy Vespoint, III                      | 510/440  | 0.11  |
| 14 | 3-7.1   | Guy Vespoint, III                      | 510/440  | 0.17  |
| 15 | 3-17    | Lorelei S. Phillips                    | WB41/625 | 0.32  |
| 16 | 3-15    | Doris Kay Sheets                       | 431/439  | 0.17  |
| 17 | 3-16    | Lorelei S. Phillips                    | WB41/625 | 0.32  |
| 18 | 3-24    | Francis Noll                           | 469/43   | 0.16  |
| 19 | 3-37.1  | Floyd T. & Dorothy Lou Cross           | 215/53   | 0.09  |
| 20 | 3-37    | Gary & Leona Fox                       | 236/33   | 0.09  |
| 21 | 3-36    | Dorothy L. & F. Thomas Cross Jr.       | 217/86   | 0.25  |
| 22 | 3-34    | Dorothy L. & F. Thomas Cross Jr.       | 217/86   | 0.10  |
| 23 | 3-35.1  | West Union First Assembly of God       | 380/494  | 0.04  |
| 24 | 3-35    | Webb & Son Holdings, LLC               | 366/671  | 0.11  |
| 25 | 3-31    | West Union First Assembly of God       | 197/656  | 0.22  |
| 26 | 3-33    | William Clayce Spurlock, et al         | 209/295  | 0.11  |
| 27 | 3-32    | West Union First Assembly of God       | 196/99   | 0.11  |
| 28 | 3-85    | West Union First Assembly of God       | 197/656  | 0.07  |
| 29 | 3-87    | West Union First Assembly of God       | 196/99   | 0.11  |
| 30 | 3-86    | CGP Development Co. Inc.               | 232/403  | 0.20  |
| 31 | 3-132   | CGP Development Inc.                   | 237/383  | 0.11  |
| 32 | 3-88    | Timothy C. & Lorelei F. Phillips       | WB62/610 | 0.15  |
| 33 | 3-133   | Doris J. Roberts-Gump                  | 357/67   | 0.05  |
| 34 | 3-134   | CGP Development Co. Inc.               | 245/668  | 0.17  |
| 35 | 3-135   | Timothy C. Phillips                    | 428/266  | 0.10  |
| 36 | 3-136   | Richard C. Beck                        | 232/145  | 0.05  |
| 37 | 3-137   | Doddridge County Senior Citizens, Inc. | 267/51   | 0.10  |
| 38 | 3-140.1 | James A. & Connie Jo Brannam           | 318/654  | 0.25  |
| 39 | 3-139   | Doddridge County Senior Citizens, Inc. | 267/51   | 0.10  |
| 40 | 3-192   | Doddridge Co. Sr. Citizens Inc         | 179/158  | 0.19  |
| 41 | 3-193   | Doddridge County Senior Citizens, Inc  | 272/725  | 0.23  |
| 42 | 3-194.1 | David E. Bowyer                        | 524/454  | 0.08  |
| 43 | 3-196   | Doddridge County Senior Citizens, Inc. | 272/725  | 0.06  |
| 44 | 3-197   | Doddridge County Senior Citizens, Inc. | 272/725  | 0.07  |
| 45 | 3-198   | James R. & Jane Ellen Merritt          | 357/15   | 0.10  |
| 46 | 3-195.4 | John J. & Nancy Droppleman             | 154/98   | 0.04  |
| 47 | 3-195.2 | John J. & Nancy Droppleman             | 168/360  | 0.08  |
| 48 | 3-191.1 | West Union Baptist Church              | 161/190  | 0.34  |
| 49 | 3-199   | Baptist Church                         | ---      | 0.20  |
| 50 | 3-200   | West Union Baptist Church Trustees     | 294/652  | 0.06  |
| 51 | 3-201   | Joseph R. & Myla S. Thorpe             | 512/275  | 0.13  |
| 52 | 3-203   | Joseph R. & Myla Thorpe                | 400/498  | 0.26  |
| 53 | 3-202   | Linda McKinney                         | 235/84   | 0.04  |
| 54 | 3-235   | United Hospital Center Inc.            | 375/718  | 0.27  |
| 55 | 3-234   | Julie A. Smith                         | 512/273  | 0.05  |
| 56 | 3-237   | United Hospital Center Inc.            | 375/718  | 0.22  |
| 57 | 3-239   | Andrew J. Menendez                     | 332/560  | 0.19  |
| 58 | 3-246   | Marian E. Spurlock                     | 465/727  | 0.08  |

| ID  | TM-Par  | Owner                                     | Bk/Pg     | Acres  |
|-----|---------|---|-----------|--------|
| 59  | 3-248   | Elizabeth W. Romine                       | 301/639   | 0.49   |
| 60  | 3-249   | William S. Heflin, et al                  | 444/128   | 0.31   |
| 61  | 3-264   | B. H. Maulsby Trustee                     | ---       | 0.23   |
| 62  | 3-280   | Emmanuel United Methodist Church          | 173/758   | 0.31   |
| 63  | 3-261   | Emmanuel United Methodist Church Trustees | 276/486   | 0.16   |
| 64  | 3-282.2 | Emmanuel United Methodist Church          | 519/314   | 0.25   |
| 65  | 3-282.1 | John D. & Tina MarieTowner                | 445/323   | 0.14   |
| 66  | 3-288   | Mary Farr Secrist                         | WB36/52   | 0.56   |
| 67  | 3-288.1 | Mary Farr Secrist                         | WB36/52   | 0.14   |
| 68  | 3-289   | Mary Farr Secrist                         | WB36/52   | 0.20   |
| 69  | 3-309   | Mary Farr Secrist                         | WB36/52   | 0.22   |
| 70  | 3-300.1 | Steven R. Chipps & Shawna Chipps          | 447/719   | 0.24   |
| 71  | 3-302   | David R. Lipscomb & Haley A. Stephenson   | 469/171   | 0.13   |
| 72  | 4-80    | David R. Lipscomb & Haley A. Stephenson   | 469/171   | 0.16   |
| 73  | 4-81    | Paulene B. Roush Estate                   | WB26/57   | 0.12   |
| 74  | 4-82    | Joshua B. Baldwin                         | 405/682   | 0.13   |
| 75  | 4-84    | Hunter C. Stansberry                      | WB106/719 | 0.16   |
| 76  | 4-85.1  | Hunter C. Stansberry                      | WB106/719 | 0.16   |
| 77  | 4-85    | Richard C. McMillian                      | WB118/285 | 0.32   |
| 78  | 31-14   | Donald H. & Helen Michels                 | WB32/156  | 0.37   |
| 79  | 31-16   | Kimberly L. & Dennis H. Powell II         | 285/614   | 0.17   |
| 80  | 4-98    | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 81  | 31-17   | Powell Family Trust                       | 304/363   | 0.16   |
| 82  | 31-115  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 83  | 31-113  | Powell Family Trust                       | 304/363   | 0.16   |
| 84  | 3-116   | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 85  | 31-112  | Powell Family Trust                       | 304/363   | 0.16   |
| 86  | 31-117  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 87  | 31-118  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 88  | 31-141  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.15   |
| 89  | 31-119  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 90  | 31-140  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.15   |
| 91  | 31-120  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 92  | 31-139  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.16   |
| 93  | 31-121  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.14   |
| 94  | 31-138  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.16   |
| 95  | 31-137  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.17   |
| 96  | 31-136  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.17   |
| 97  | 31-41   | Leland M. Hickman                         | 74 / 299  | 0.54   |
| 98  | 31-134  | George J. Buff, III & J. Charles Buff     | 377/517   | ---    |
| 99  | 31-133  | George J. Buff, III & J. Charles Buff     | 377/517   | ---    |
| 100 | 31-132  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.21   |
| 101 | 31-163  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.16   |
| 102 | 31-164  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.16   |
| 103 | 31-165  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.23   |
| 104 | 31-173  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.16   |
| 105 | 31-174  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.18   |
| 106 | 31-228  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.22   |
| 107 | 31-229  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.24   |
| 108 | 31-230  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.25   |
| 109 | 31-224  | George J. Buff, III & J. Charles Buff     | 377/517   | ---    |
| 110 | 31-231  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.26   |
| 111 | 31-232  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.26   |
| 112 | 31-233  | George J. Buff, III & J. Charles Buff     | 377/517   | 0.24   |
| 113 | 11-71   | Lyle K. Baker                             | 177/304   | 8.29   |
| 114 | 11-73   | Key Oil Company                           | 265/540   | 11.84  |
| 115 | 15-3    | E Properties LTD                          | 201/396   | 186.86 |
| 116 | 15-4    | E Properties LTD                          | 201/396   | 115.03 |

|  |   |  |
|--|---|--|
| FILE NO: <u>58-30-WU-14</u>                                  | <br><b>STATE OF WEST VIRGINIA</b><br>DEPARTMENT OF ENVIRONMENTAL PROTECTION<br><b>OIL AND GAS DIVISION</b> | DATE: <u>October 24</u> 20 <u>23</u>                         |
| DRAWING NO: <u>Dixie Unit 2H Well Plat</u>                   |   | OPERATOR'S WELL NO. <u>Dixie Unit 2H</u>                     |
| SCALE: <u>1" = 1500'</u>                                     |   | API WELL NO  |
| MINIMUM DEGREE OF ACCURACY:<br><u>Submeter</u>               |   | <u>47</u> - <u>017</u> - <u>06959</u><br>STATE COUNTY PERMIT |
| PROVEN SOURCE OF ELEVATION:<br><u>WVDOT, Harrisville, WV</u> |   |  |

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union  
 DISTRICT: West Union Antero COUNTY: Doddridge  
 SURFACE OWNER: Resources Corp. ACREAGE: 16.5  
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: \_\_\_\_\_ ACREAGE: \_\_\_\_\_ 90

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,000' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 17,200' MD

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

WW-6A1

Operator's Well Number

Dixie Unit 2H MOD

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:

| Grantor, lessor, etc.                             | Grantee, lessee, etc.              | Royalty     | Book/Page |
|---|------------------------------------|-------------|-----------|
| <b>A: Claude F. Smith, et ux Lease</b>            |                                    |             |           |
| Claude F. Smith                                   | Key Oil Company                    | 1/8         | 104/704   |
| Key Oil Company                                   | XOIL Drilling Partners LP          | Assignment  | 105/566   |
| XOIL Drilling Partners LP                         | XPLOR Corporation                  | Assignment  | 146/649   |
| XPLOR Corporation                                 | Venus Exploration                  | Merge       | WV SOS    |
| Venus Exploration Inc                             | Allegheny Interests Inc            | Assignment  | 184/512   |
| Allegheny Interests Inc                           | Rubin Resources Inc                | Assignment  | 187/685   |
| Rubin Resources Inc                               | Petro Edge Energy LLC              | Assignment  | 230/666   |
| Petro Edge Energy LLC                             | Statoil USA Onshore Properties Inc | Assignment  | 285/71    |
| Statoil USA Onshore Properties Inc                | EQT Production Company             | Assignment  | 428/356   |
| EQT Production Company                            | Antero Resources Corporation       | Agreement   | 385/268   |
| <b>B: Harret M. Jarvis, et al Lease</b>           |                                    |             |           |
| Harret M. Jarvis                                  | Robert L. Holland                  | 1/8         | 52/299    |
| Robert L. Holland                                 | H & H Oil Company                  | Name Change | 2/467     |
| H & H Oil Company                                 | Midwest Energy, Inc                | Assignment  | 268/600   |
| Midwest Energy, Inc                               | Antero Resources Corporation       | Assignment  | 520/94    |
| <b>C: WVDNR Lease</b>                             |                                    |             |           |
| WVDNR   | Antero Resources Corporation       | 1/8+        | 517/553   |
| <b>D: J.M.L. Smith Lease:</b>                     |                                    |             |           |
| J.M.L. Smith                                      | Key Oil Company                    | 1/8         | 104/440   |
| Key Oil Company                                   | Rim Gas Corporation                | Name Change | 105/566   |
| Rim Gas Corporation                               | XPLOR Corporation                  | Assignment  | 177/155   |
| XPLOR Corporation                                 | Venus Exploration, Inc             | Merger      | WV SOS    |
| Venus Exploration, Inc                            | Allegheny Interest, Inc            | Assignment  | 184/512   |
| Allegheny Interest, Inc                           | Rubin Resources, Inc               | Assignment  | 187/685   |
| Rubin Resources, Inc                              | PetroEdge Energy, LLC              | Assignment  | 230/666   |
| PetroEdge Energy, LLC                             | Statoil USA Onshore Properties     | Assignment  | 285/71    |
| Statoil USA Onshore Properties                    | EQT Production Company             | Assignment  | 428/356   |
| EQT Production Company                            | Antero Resources Corporation       | Assignment  | 467/165   |
| <b>E: Donald R. Dotson, Jr., et ux Lease:</b>     |                                    |             |           |
| Donald R. Dotson, Jr., et ux                      | Antero Resources Corporation       | 1/8+        | 510/487   |
| <b>F: Ronda Jean Adkins Lease:</b>                |                                    |             |           |
| Ronda Jean Adkins                                 | Antero Resources Corporation       | 1/8+        | 523/616   |
| <b>G: Argil Wayne Nicholson II, et ux Lease:</b>  |                                    |             |           |
| Argil Wayne Nicholson II, et ux                   | Antero Resources Corporation       | 1/8+        | 486/167   |
| <b>H: Stephen M. &amp; Cathy Jo Ash Lease:</b>    |                                    |             |           |
| Stephen M. & Cathy Jo Ash                         | Antero Resources Corporation       | 1/8+        | 513/6     |
| <b>K: Pooled Tract</b>                            |                                    |             |           |
| <b>J: Sharon E. Walker &amp; Ron Burns Lease:</b> |                                    |             |           |
| Sharon E. Walker & Ron Burns                      | Antero Resources Corporation       | 1/8+        | 512/670   |

11/17/2023

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)

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- (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:

| Grantor, lessor, etc.  | Grantee, lessee, etc.        | Royalty | Book/Page |
|--|------------------------------|---------|-----------|
| <b>M: Lorelei F. Phillips</b><br>Lorelei F. Phillips   | Antero Resources Corporation | 1/8+    | 523/377   |
| <b>C: WVDNR Lease:</b><br>WVDNR  | Antero Resources Corporation | 1/8+    | 517/553   |
| <b>D: Mary Jane Staats Lease:</b><br>Mary Jane Staats  | Antero Resources Corporation | 1/8+    | 500/179   |
| <b>P: Dorothy L. &amp; F. Thomas Cross Jr. Lease:</b><br>Dorothy L. & F. Thomas Cross Jr.          | Antero Resources Corporation | 1/8+    | 470/452   |
| <b>R: West Union First Assembly of God Lease:</b><br>West Union First Assembly of God              | Antero Resources Corporation | 1/8+    | 513/288   |
| <b>U: CGP Development Co Inc. Lease:</b><br>CGP Development Co., Inc                               | Antero Resources Corporation | 1/8+    | 500/362   |
| <b>V: CGP Development Co Inc. Lease:</b><br>CGP Development Co., Inc                               | Antero Resources Corporation | 1/8+    | 500/613   |
| <b>X: Doris J. Roberts-Gump Lease:</b><br>Doris J. Roberts-Gump                                    | Antero Resources Corporation | 1/8+    | 512/672   |
| <b>Y: Timothy C. Phillips Lease:</b><br>Timothy C. Phillips  | Antero Resources Corporation | 1/8+    | 526/235   |
| <b>AA: Doddridge County Senior Citizens, Inc. Lease:</b><br>Doddridge County Senior Citizens, Inc. | Antero Resources Corporation | 1/8+    | 519/402   |
| <b>AB: James A. &amp; Connie Jo Brannam Lease:</b><br>James A. & Connie Jo Brannam                 | Antero Resources Corporation | 1/8+    | 486/140   |
| <b>AC: WV State Rail Authority Lease:</b><br>WV State Rail Authority                               | Antero Resources Corporation | 1/8+    | 253/409   |
| <b>AA: Doddridge County Senior Citizens, Inc. Lease:</b><br>Doddridge County Senior Citizens, Inc  | Antero Resources Corporation | 1/8+    | 519/402   |
| <b>AE: Mark Alan Willis Lease:</b><br>Mark Alan Willis   | Antero Resources Corporation | 1/8+    | 511/723   |
| <b>AF: Pooled Tract</b>  |                              |         |           |
| <b>AH: West Union Baptist Church Lease:</b><br>West Union Baptist Church                           | Antero Resources Corporation | 1/8+    | 517/7     |

11/17/2023

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)

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| Grantor, lessor, etc.  | Grantee, lessee, etc.   | Royalty   | Book/Page                              |
|--|---|---|--|
| <u>AI: West Union Baptist Church Lease:</u><br>West Union Baptist Church   | Antero Resources Corporation  | 1/8+  | 517/7                                  |
| <b>AK: Pooled Tract</b>  |   |   |  |
| <b>AM: Pooled Tract</b>  |   |   |  |
| <u>AL: Joseph R. Thorpe, et ux Lease:</u><br>Joseph R. Thorpe, et ux   | Antero Resources Corporation  | 1/8+  | 500/314                                |
| <b>AP: Pooled Tract</b>  |   |   |  |
| <b>AQ: Pooled Tract</b>  |   |   |  |
| <u>AS: Elizabeth W. Romine Lease:</u><br>Elizabeth W. Romine   | Antero Resources Corporation  | 1/8+  | 511/382                                |
| <u>AT: Virginia L. Nicholson Lease:</u><br>Virginia L. Nicholson   | Antero Resources Corporation  | 1/8+  | 477/1                                  |
| <u>AU: Emmamuel UM Church Lease:</u><br>Emmamuel UM Church   | Antero Resources Corporation  | 1/8+  | 512/621                                |
| <u>AX: Volusia Ventures, LLC Lease:</u><br>Volusia Ventures, LLC   | Antero Resources Corporation  | 1/8+  | 511/186                                |
| <u>AY: Lynn R. Ireland Sr. Lease:</u><br>Lynn R. Ireland, Sr.  | Antero Resources Corporation  | 1/8+  | 513/558                                |
| <u>AZ: Mary A. Stuart, et al Lease:</u><br>Mary A, Stuart, et al<br>Lewis Maxwell<br>Southern Carbon Company<br>Empire Oil Company | Lewis Maxwell<br>Southern Carbon Company<br>Empire Oil Company<br>Carolyn E. Farr, P.D. Farr, & William E. Farr,<br>directors | 1/8<br>Assignment<br>Assignment<br>Company incorporated | 19/214<br>34/391<br>356/361<br>216/162 |
| Carolyn E. Farr, P.D. Farr, & William E. Farr,<br>directors  | Carolyn E. Farr Trust   | Trust created   | 220/233                                |
| Carolyn E. Farr Trust  | Antero Resources Appalachian Corporation  | Assignment  | 271/541                                |
| Antero Resources Appalachian<br>Corporation  | Antero Resources Corporation  | Name Change   | 46/523                                 |

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:

| Grantor, lessor, etc.                                   | Grantee, lessee, etc.                                   | Royalty                                  | Book/Page |
|---|---|--|-----------|
| <b>BA: Mary A. Stuart, et al Lease:</b>                 |   |  |           |
| Mary A. Stuart, et al                                   | Lewis Maxwell   | 1/8                                      | 19/214    |
| Lewis Maxwell   | Southern Carbon Company                                 | Assignment                               | 34/391    |
| Southern Carbon Company                                 | Empire Oil Company                                      | Assignment                               | 356/361   |
| Empire Oil Company                                      | Carolyn E. Farr, P.D. Farr, & William E. Farr directors | Company incorporated                     | 216/162   |
| Carolyn E. Farr, P.D. Farr, & William E. Farr directors | Carolyn E. Farr Trust                                   | Trust created                            | 220/233   |
| Carolyn E. Farr Trust                                   | Antero Resources Appalachian Corporation                | Assignment                               | 271/541   |
| Antero Resources Appalachian Corporation                | Antero Resources Corporation                            | Name Change                              | 46/523    |
| <b>BB: Celia Schulte &amp; Hazel B. Butler Lease:</b>   |   |  |           |
| Celia Schulte & Hazel B. Butler                         | P. Douglass Farr  | 1/8                                      | 62/485    |
| P. Douglass Farr  | Triangle Oil Company                                    | Assignment                               | 69/125    |
| Triangle Oil Company                                    | New Triangle Oil Company                                | Assignment                               | 149/174   |
| New Triangle Oil Company                                | Professional Oilfield Services, Inc                     | Farmout Agreement                        | 336/456   |
| Professional Oilfield Services, Inc                     | Antero Resources Corporation                            | Partial Assignment of Oil and Gas Leases | 336/461   |

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 WV Department of Environmental Protection

\*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.

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

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

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| Lease Name or Number                                | Grantor, Lessor, etc.                              | Grantee, Lessee, etc.                              | Royalty    | Book/Page |
|---|--|--|------------|-----------|
| <b>BC: Joseph Cheuront &amp; W.S. Stuart Lease:</b> |  |  |            |           |
|   | Joseph Cheuront & W.S. Stuart                      | Lewis Maxwell                                      | 1/8        | 19/216    |
|   | Lewis Maxwell                                      | Southern Carbon Company                            | Assignment | 24/477    |
|   | Southern Carbon Company                            | Empire Oil Company, John M. Gribble                | Assignment | 24/277    |
|   | Empire Oil Company, John M. Gribble                | WD Gribble   | Death      | 3/067     |
|   | WD Gribble   | Carolyn E. Farr                                    | Death      | 4/256     |
|   | Carolyn E. Farr                                    | Clarence E. Sigley, Trustee, Carolyn E. Farr Trust | Assignment | 220/233   |
|   | Clarence E. Sigley, Trustee, Carolyn E. Farr Trust | Tri County Oil & Gas Inc                           | Assignment | 198/670   |
|   | Tri County Oil & Gas Inc                           | May Gas Inc  | Assignment | 204/43    |
|   | May Gas Inc  | Harper Crosby Holdings LLC                         | Assignment | 309/238   |
|   | Harper Crosby Holdings LLC                         | Piney Holdings Inc                                 | Assignment | 309/275   |
|   | Piney Holdings Inc                                 | Antero Resources Corporation                       | Assignment | 400/655   |

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