



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Thursday, June 13, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Pine Unit 2H
47-103-03649-00-00

Extended Lateral

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 handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, circular official stamp.

James A. Martin
Chief

Operator's Well Number: Pine Unit 2H
Farm Name: Dallison Lumber, Inc.
U.S. WELL NUMBER: 47-103-03649-00-00
Horizontal 6A New Drill
Date Modification Issued: 6/13/2024

Promoting a healthy environment.

06/14/2024

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 - Wetzel Green Pine Grove 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Pine Unit 2H MOD Well Pad Name: Galmish Pad

3) Farm Name/Surface Owner: Dallison Lumber Inc. Public Road Access: McKimmie Ridge Road

4) Elevation, current ground: As-Built 1160.7 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: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24000' MD

11) Proposed Horizontal Leg Length: 14566' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 45', 130'

13) Method to Determine Fresh Water Depths: 47103025550000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1961'

15) Approximate Coal Seam Depths: N/A

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: _____

[Handwritten Signature]
[Handwritten Date]
06/14/2024

18)

CASING AND TUBING PROGRAM

| TYPE | <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# | 300' | 300' | CTS, 313 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# | 24000' | 24000' | CTS, 5120 Cu. Ft. |
| Tubing | 2-3/8" | New | N-80 | 4.7# | | | |
| Liners | | | | | | | |

| TYPE | <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 | | | |

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): 64.40 acres

22) Area to be disturbed for well pad only, less access road (acres): 17.53 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.

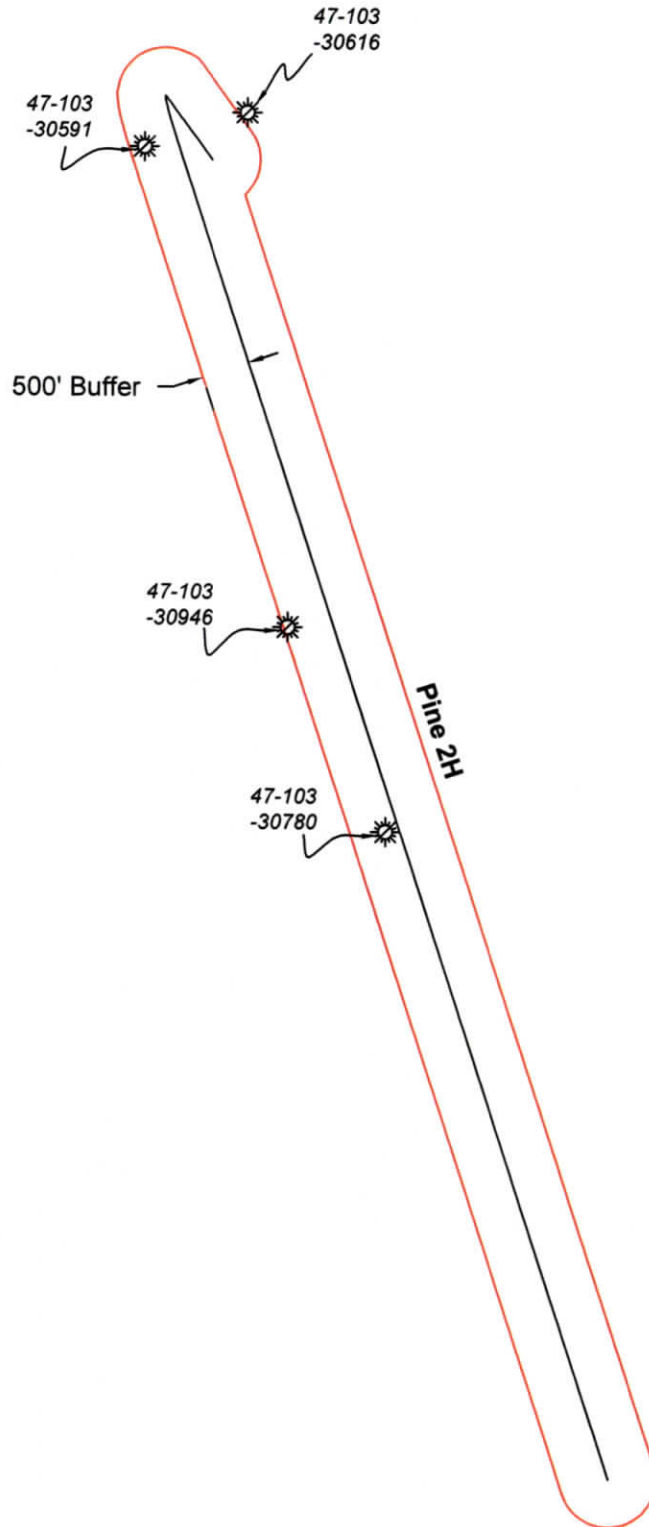
*Note: Attach additional sheets as needed.

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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Office of Oil and Gas

MAY 24 2024

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: J. McNemar |
| RESEARCH: J. Miller | PREPARED: March 14, 2024 |
| SURVEYED: Dec. 2016 | PROJECT NO: 128-34-G-18 |
| FIELD CREW: C.L., K.M. | DRAWING NO: Pine 2H AOR |

Sheet 1 of 1



Scale: 1 inch = 2000 feet

06/14/2024

| UWI (APINum) | Well Name | Well Number | Operator | Historical Operator | TD | Perforated Interval (shallowest, deepest) | Perforated Formation(s) | Producibile Formation(s) not perf'd |
|----------------|---------------|-------------|------------------|---------------------|-------|---|---------------------------------|-------------------------------------|
| 47103306160000 | J W HAINES 1 | 4850 | UNKNOWN | UNKNOWN | 2,891 | | Gordon Stray, Gordon | Weir, Berea, Benson, Alexander |
| 47103305910000 | C E GRIM 1 | 5235 | UNKNOWN | UNKNOWN | 2,896 | | Big Injun, Gordon Stray | Weir, Berea, Benson, Alexander |
| 47103309460000 | I B ALLEY HRS | 1 | UNKNOWN | UNKNOWN | | | Big Injun, Gordon Stray, Fourth | Weir, Berea, Benson, Alexander |
| 47103307800000 | ANDREW HAUGHT | 24 | HOPE NATURAL GAS | HOPE NATURAL GAS | 3,310 | | Gordon Stray | Weir, Berea, Benson, Alexander |

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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 |
|--|--|---|---|
| <u>A: Robert Barry Myers, Jr. Lease</u> Robert Barry Myers, Jr. | Antero Resources Corporation | 1/8+ | 300A/0634 |
| <u>B: Freeda Marie Brown Lease</u> Freeda Marie Brown | Antero Resources Corporation | 1/8+ | 308A/0508 |
| <u>E: Bounty Minerals, LLC Lease</u> Bounty Minerals, LLC | Antero Resources Corporation | 1/8+ | 296A/0314 |
| <u>G: David E. Bowyer Lease</u> David E. Bowyer | Antero Resources Corporation | 1/8+ | 336A/0777 |
| <u>H: James E. Coen, et ux Lease</u> James E. Coen, et ux | Antero Resources Corporation | 1/8+ | 269A/0117 |
| <u>J: Michael W. Long, et ux Lease</u> Michael W. Long, et ux | Antero Resources Corporation | 1/8+ | 345A/0156 |
| <u>I: T.H. Alley & Mary M. Alley Lease</u> T.H. Alley & Mary M. Alley L. G. Robinson Tri-State Gas Company South Penn Oil Company Hope Natural Gas Company Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc. Equitable Production – Eastern States Inc. Equitable Production Company EQT Production Company | L.G. Robinson Tri-State Gas Company South Penn Oil Company Hope Natural Gas Company Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc. Equitable Production – Eastern States Inc. Equitable Production Company EQT Production Company Antero Resources Corporation | 1/8 Assignment Assignment Assignment Assignment Name Change Assignment Name Change Name Change Name Change Assignment | 0048/0572 0059/0415 0073/0185 138A/0641 066A/0069 0013/0151 076A/0232 0013/0014 0013/0014 0013/0014 230A/0801 |
| <u>Q: WVDNR Lease</u> WVDNR | Antero Resources Corporation | 1/8+ | 323A/0541 |
| <u>U: Marlene Sue Barr Lease</u> Marlene Sue Barr | Antero Resources Corporation | 1/8+ | 341A/0936 |
| <u>V: JMR Properties, LLC Lease</u> JMR Properties, LLC | Antero Resources Corporation | 1/8+ | 343A/0653 |
| <u>W: Antero Minerals, LLC Lease</u> Antero Minerals, LLC | Antero Resources Corporation | 1/8+ | 292A/0795 |
| <u>X: Clay D.C. Dallison, et al Lease</u> Clay D.C. Dallison, et al | Antero Resources Corporation | 1/8+ | 292A/0795 |
| <u>W: Antero Minerals, LLC Lease</u> Antero Minerals, LLC | Antero Resources Corporation | 1/8+ | 292A/0795 |

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| Grantor, lessor, etc. | Grantee, lessee, etc. | Royalty | Book/Page |
|---|--|-------------|-----------|
| <u>Z: Three Rivers Royalty II, LLC Lease</u> | | | |
| Three Rivers Royalty II, LLC | CNX Gas Company LLC | 1/8 | 293A/0373 |
| CNX Gas Company LLC | Antero Resources Corporation | Assignment | 300A/0159 |
| <u>AA: J.L. Newman Lease</u> | | | |
| J.L. Newman | South Penn Oil Company | 1/8 | 0073/0459 |
| South Penn Oil Company | Hope Natural Gas Company | Assignment | 002A/0299 |
| 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 | CNG Transmission Corporation | Name Change | 0013/0151 |
| CNG Transmission Corporation | Eastern States Oil & Gas Inc. | Assignment | 076A/0232 |
| Eastern States Oil & Gas Inc. | Equitable Production – Eastern States Inc. | Name Change | 0013/0014 |
| Equitable Production – Eastern States Inc. | Equitable Production Company | Name Change | 0013/0014 |
| Equitable Production Company | EQT Production Company | Name Change | 0013/0014 |
| EQT Production Company | Antero Resources Corporation | Assignment | 230A/0801 |
| <u>AB: BRC Appalachian Minerals I, LLC Lease</u> | | | |
| BRC Appalachian Minerals I, LLC | BRC Working Interest Company | 1/8 | 102A/0505 |
| BRC Working Interest Company | Chesapeake Appalachia LLC | Assignment | 103A/0470 |
| Chesapeake Appalachia LLC | SWN Production Company | Assignment | 157A/0540 |
| SWN Production Company | Antero Exchange Properties | Assignment | 177A/0533 |
| Antero Exchange Properties | Antero Resources Corporation | Merge | 0013/0311 |

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*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 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.

**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:

| Lease Name or Number | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|---|--------------------------|------------------------------|---------|-----------|
| AD: Ridgetop Appalachia, LLC Lease | | | | |
| | Ridgetop Appalachia, LLC | Antero Resources Corporation | 1/8+ | 304A/0061 |

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**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:

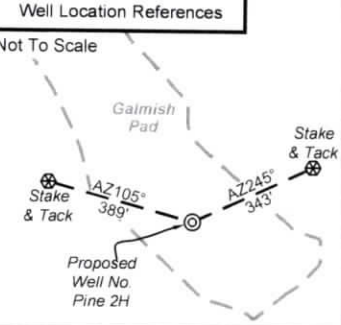
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Antero Resources
Well No. Pine 2H
BHL MOD
Antero Resources Corporation

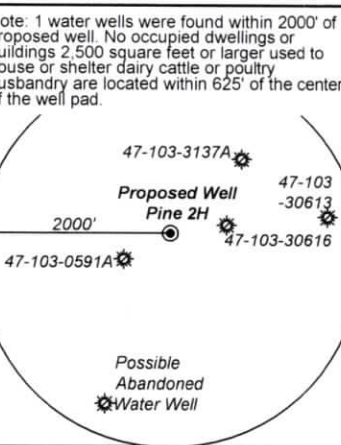
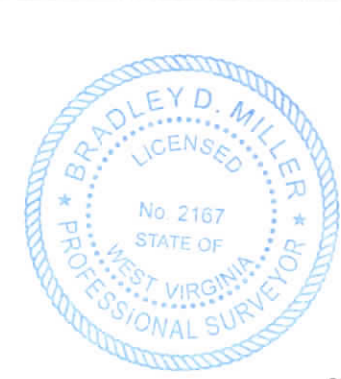
Page 1 of 3



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.

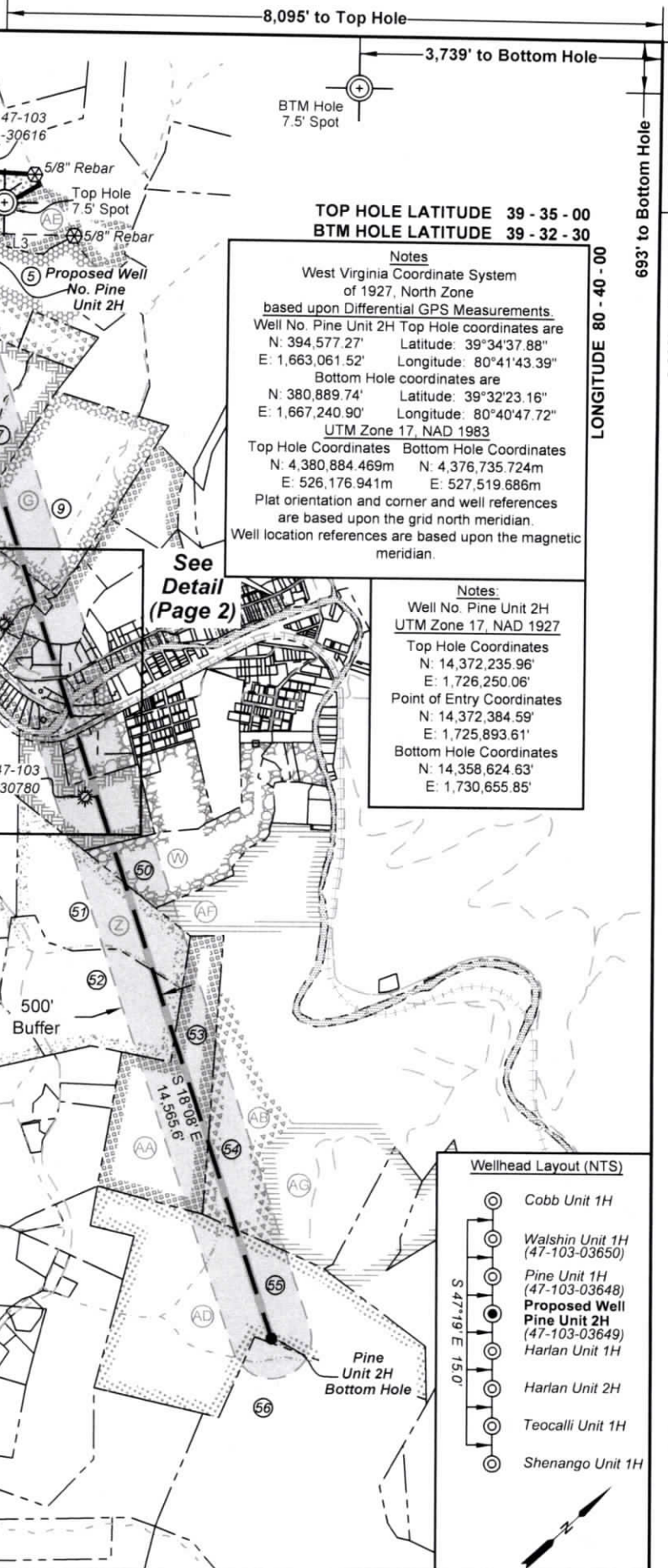
Bradley D. Miller

Bradley D. Miller, P.S. 2167



| | Bearing | Dist. |
|----|------------|----------|
| L1 | S 08°09' W | 1,272.1' |
| L2 | S 56°52' W | 1,340.8' |
| L3 | N 89°21' W | 1,623.2' |
| L4 | N 40°13' W | 2,737.0' |
| L5 | N 66°25' W | 386.3' |

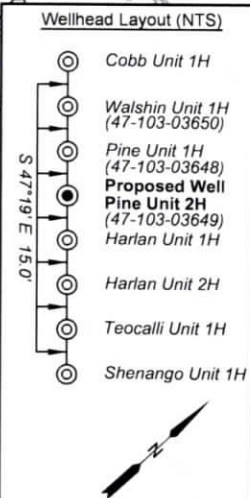
- Legend
- Proposed gas well
 - ⊗ Monument, as noted
 - ⊙ Existing Well, as noted
 - ⊙ Digitized Well, as noted
 - - - Creek or Drain
 - Road
 - Railroad
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - - - Mineral Tract Boundary Line



TOP HOLE LATITUDE 39 - 35 - 00
BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone
 based upon Differential GPS Measurements
 Well No. Pine Unit 2H Top Hole coordinates are
 N: 394,577.27' Latitude: 39°34'37.88"
 E: 1,663,061.52' Longitude: 80°41'43.39"
 Bottom Hole coordinates are
 N: 380,889.74' Latitude: 39°32'23.16"
 E: 1,667,240.90' Longitude: 80°40'47.72"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,380,884.469m N: 4,376,735.724m
 E: 526,176.941m E: 527,519.686m
 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. Pine Unit 2H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,372,235.96'
 E: 1,726,250.06'
 Point of Entry Coordinates
 N: 14,372,384.59'
 E: 1,725,893.61'
 Bottom Hole Coordinates
 N: 14,358,624.63'
 E: 1,730,655.85'



FILE NO: 128-34-G-18
 DRAWING NO: Pine 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: May 2 2024
 OPERATOR'S WELL NO. Pine 2H
 API WELL NO
 47 - 103 - 03649
 STATE COUNTY PERMIT

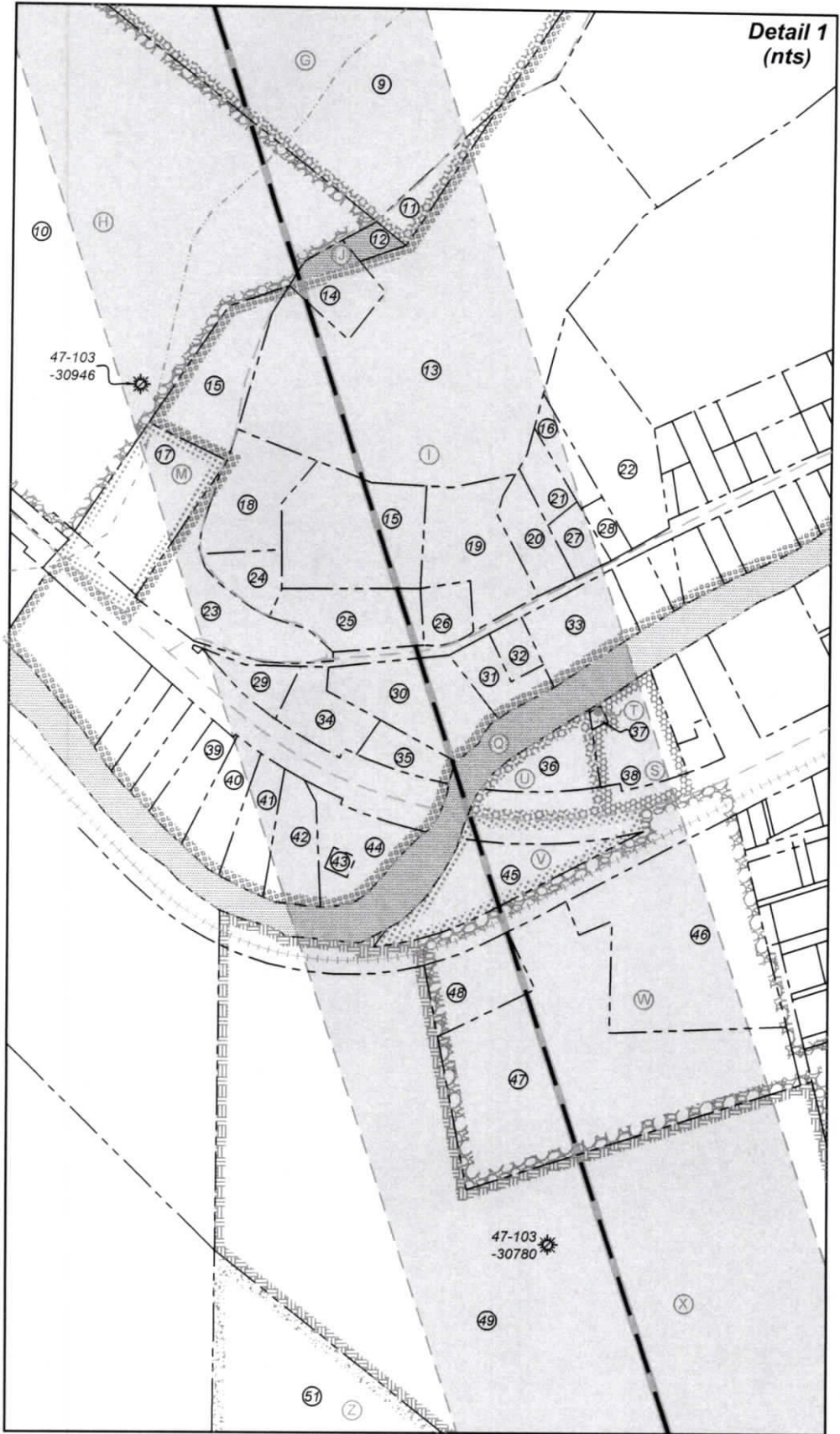
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel 06/14/2024
 SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
 ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL Mod 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,000' 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



Detail 1
(nts)



FILE NO: 128-34-G-18
DRAWING NO: Pine 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: May 2 2024
OPERATOR'S WELL NO. Pine 2H
API WELL NO
47 - 103 - 03649
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek

QUADRANGLE: Pine Grove

DISTRICT: Green
SURFACE OWNER: Dallison Lumber Inc.

COUNTY: Wetzel **06/14/2024**

ROYALTY OWNER: Robert Barry Myers, Jr.

LEASE NO: _____ ACREAGE: 25

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: 24,000' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Kevin Ellis

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330



| Leases | |
|--------|---------------------------------|
| A | Robert Barry Myers, Jr. |
| B | Freeda Marie Brown |
| C | Clarice Ann Brown LeMasters |
| D | Aunix Energy, LLC |
| E | Bounty Minerals, LLC |
| G | David E. Bowyer |
| H | James E. Coen, et ux |
| I | T.H. Alley & Mary M. Alley |
| J | Michael W. Long, et ux |
| M | Lauren Dennis Roesner, Sr. |
| Q | WVDNR |
| S | Pine Grove Christian Church |
| T | Town of Pine Grove |
| U | Marlene Sue Barr |
| V | JMR Properties, LLC |
| W | Antero Minerals, LLC |
| X | Clay D. C. Dallison, et al |
| Z | Three Rivers Royalty II, LLC |
| AA | J.L. Newman |
| AB | BRC Appalachian Minerals I, LLC |
| AD | Ridgetop Appalachia, LLC |
| AE | Robert Barry Myers, Jr. |
| AF | Chesapeake Appalachia, LLC |
| AG | A. J. Witchterman, et al |

| ID | TM-Par | Owner | Bk/Pg | Acres |
|----|----------|--|----------|---------|
| 1 | 14-9 | Dallison Lumber, Inc. | 474/290 | 25.00 |
| 2 | 9-58 | Dallison Lumber Inc. | 474/290 | 32.00 |
| 3 | 14-7 | Clarice Ann Brown Lemasters | 223/127 | 44.00 |
| 4 | 14-8 | Clarice Ann Brown Lemasters | 223/127 | 9.00 |
| 5 | 14-12 | Freeda M. Brown | WB79/104 | 70.06 |
| 6 | 14-30.1 | Richard D. & Josielie V. Chapple | 310/327 | 44.75 |
| 7 | 14-30.10 | Cynthia L. & Terry L. Adams | 347/706 | 20.67 |
| 8 | 14-30.11 | Alan & Debra Miller | 310/425 | 3.88 |
| 9 | 14-32 | Community Sportsman Club | 176/370 | 79.52 |
| 10 | 14-39 | James Edward & Shawn L. Coen | 397/542 | 30.95 |
| 11 | 14-32.1 | Carlton G. & Barbara P. Norris | 285/193 | 0.46 |
| 12 | 14-39.2 | Robin Lynette Wadsworth, et al | 416/421 | 0.20 |
| 13 | 14-33.3 | Carlton G. & Barbara P. Norris | 285/193 | 12.32 |
| 14 | 14-33.1 | Robin Lynette Wadsworth, et al | 416/421 | 0.72 |
| 15 | 14-33 | Eva Arlene Adams | 466/664 | 6.00 |
| 16 | 4-9 | Church of Christ Pine Grove | 244/192 | 0.79 |
| 17 | 5-10 | John Edward Bell | 405/468 | 1.92 |
| 18 | 14-33.6 | Gary Lee & Kimberly J. Tennant | 410/658 | 1.00 |
| 19 | 14-33.8 | Charles S. & Constance S. Amos | 446/391 | 1.54 |
| 20 | 4-6 | Twila S. Kinkade | 289/97 | 0.76 |
| 21 | 4-7.1 | Church of Christ Pine Grove | 244/192 | 1.10 |
| 22 | 4-8 | Robert Lawson | 479/531 | 1.32 |
| 23 | 5-11 | Mountain State Telephone Company | 286/262 | 1.70 |
| 24 | 14-33.7 | Gary Lee & Kimberly J. Tennant | 410/658 | 0.48 |
| 25 | 5-15 | Eva Arlene Adams | 466/664 | 1.00 |
| 26 | 5-16 | Charles S. & Constance S. Amos | 446/391 | 0.39 |
| 27 | 4-7 | Timmy J. & Stacie M. Starkey | 351/150 | 0.35 |
| 28 | 4-9.1 | Church of Christ Pine Grove | 244/192 | 0.21 |
| 29 | 5-12 | Mary M. Phillips, et al | A90/636 | 0.54 |
| 30 | 5-14 | Timothy Jack Davis | 470/344 | 2.00 |
| 31 | 4-88 | Timothy Jack Davis | 470/344 | 0.99 |
| 32 | 4-88.1 | Town of Pine Grove | 341/615 | 0.27 |
| 33 | 4-89 | Church of Christ Pine Grove | 213/376 | 1.12 |
| 34 | 5-13 | RANAO, Inc. | 458/45 | 0.70 |
| 35 | 5-13.1 | Magnolia Associates, LLC | 388/87 | 0.38 |
| 36 | 4-84 | Beverly L. Barr | 488/937 | 0.81 |
| 37 | 4-82.1 | Town of Pine Grove | 454/722 | 0.04 |
| 38 | 4-82 | The First Christian Church of Pine Grove | 225/461 | 1.07 |
| 39 | 5-5 | Priscilla Rebekah Lodge #296, Inc. | 254/52 | 0.55 |
| 40 | 5-6 | Priscilla Rebekah Lodge #296, Inc. | 254/52 | 0.64 |
| 41 | 5-7 | Priscilla Rebekah Lodge #296, Inc. | 254/52 | 0.64 |
| 42 | 5-8 | Priscilla Rebekah Lodge #296, Inc. | 254/52 | 0.77 |
| 43 | 5-9.1 | Town of Pine Grove | 454/720 | 0.07 |
| 44 | 5-9 | Wetzel County Hospital Wetzel County Commission | 383/419 | 0.85 |
| 45 | 4-85 | JMR Properties, LLC | 416/607 | 1.71 |
| 46 | 4-87.1 | Wetzel County BOE | 289/235 | 4.29 |
| 47 | 4-87 | Wetzel County BOE | 350/707 | 9.79 |
| 48 | 4-87.2 | Town of Pine Grove | 337/148 | 0.90 |
| 49 | 18-1 | Dallison Lumber Inc | 392/637 | 32.00 |
| 50 | 16-2 | Robert D. & Nancy L. Streets | 219/100 | 33.70 |
| 51 | 18-2 | Michael E. Goodrich | 380/383 | 72.83 |
| 52 | 18-3 | Kenneth K. Parks | W125/832 | 62.45 |
| 53 | 18-3.1 | Dominion Gathering & Processing, Inc. | 460/781 | 150.00 |
| 54 | 16-8 | Dominion Gathering & Processing, Inc. | 460/781 | 572.05 |
| 55 | 18-10 | Paul U. & Betty A. Garber Revocable Living Trust | 474/722 | 150.00 |
| 56 | 4-21-3 | WV Conservation Commission | 207/239 | 5,104.5 |

FILE NO: 128-34-G-18
 DRAWING NO: Pine 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



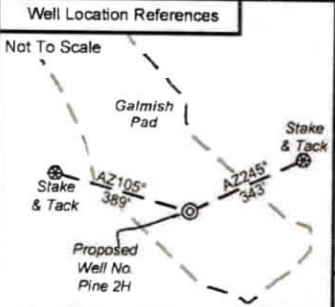
DATE: May 2 2024
 OPERATOR'S WELL NO. Pine 2H
 API WELL NO
47 - 103 - 03649
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel **06/14/2024**
 SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25
 ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: _____ ACREAGE: 25
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL Mod 7,600' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,000' 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

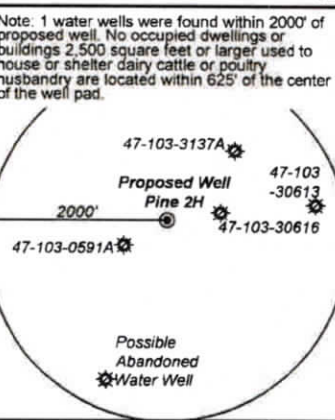
Antero Resources
Well No. Pine 2H
BHL MOD
Antero Resources Corporation

Page 1 of 3



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.

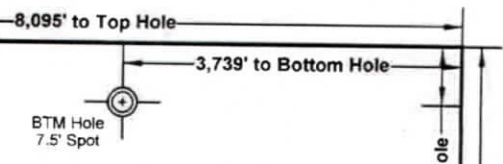
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



| | Bearing | Dist. |
|----|------------|----------|
| L1 | S 08°09' W | 1,272.1' |
| L2 | S 56°52' W | 1,340.8' |
| L3 | N 89°21' W | 1,623.2' |
| L4 | N 40°13' W | 2,737.0' |
| L5 | N 66°25' W | 386.3' |

Legend

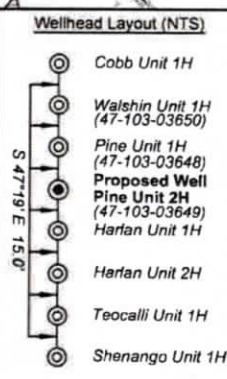
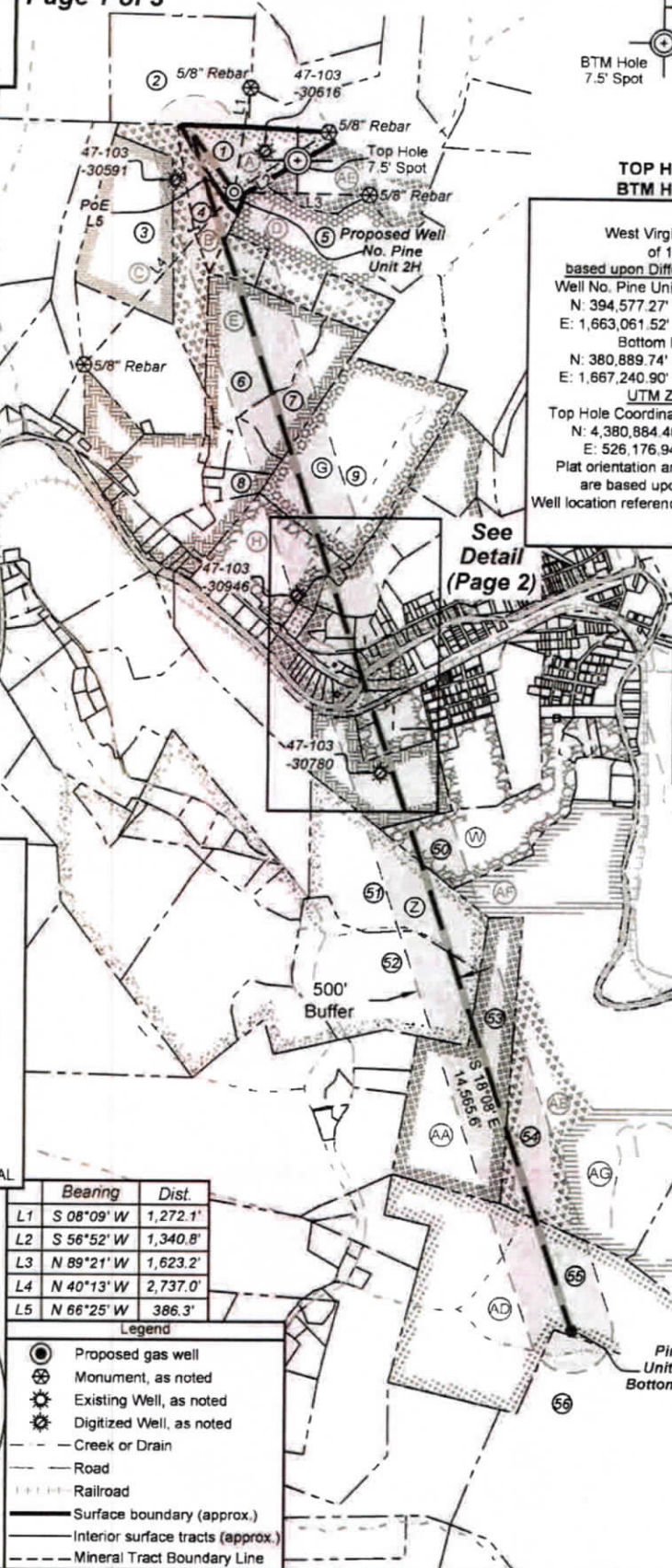
- ⊙ Proposed gas well
- ⊗ Monument, as noted
- ⊛ Existing Well, as noted
- ⊙ Digitized Well, as noted
- - - - - Creek or Drain
- Road
- ⊃ Railroad
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)
- - - Mineral Tract Boundary Line



TOP HOLE LATITUDE 39 - 35 - 00
BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Pine Unit 2H Top Hole coordinates are
 N: 394,577.27' Latitude: 39°34'37.88"
 E: 1,663,061.52' Longitude: 80°41'43.39"
 Bottom Hole coordinates are
 N: 380,889.74' Latitude: 39°32'23.16"
 E: 1,667,240.90' Longitude: 80°40'47.72"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,380,884.469m N: 4,376,735.724m
 E: 526,176.941m E: 527,519.686m
 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. Pine Unit 2H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,372,235.96'
 E: 1,726,250.06'
 Point of Entry Coordinates
 N: 14,372,384.59'
 E: 1,725,893.61'
 Bottom Hole Coordinates
 N: 14,358,624.63'
 E: 1,730,655.85'



FILE NO: 128-34-G-18
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 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: May 2 2024
 OPERATOR'S WELL NO. Pine 2H
 API WELL NO
 47 - 103 - 03649
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Om