



west virginia department of environmental protection

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

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

Monday, November 18, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Bassett Unit 1H
47-103-03676-00-00

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: Bassett Unit 1H
Farm Name: Antero Midstream, LLC
U.S. WELL NUMBER: 47-103-03676-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/18/2024

Promoting a healthy environment.

11/22/2024

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

2) Operator's Well Number: Bassett Unit 1H MOD Well Pad Name: Lincoln Pad

3) Farm Name/Surface Owner: Antero Midstream, LLC Public Road Access: Furbee Ridge Road

4) Elevation, current ground: 1290' Elevation, proposed post-construction: 1260'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

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: 18000' MD

11) Proposed Horizontal Leg Length: 8487' *Open to modification at a later date

12) Approximate Fresh Water Strata Depths: 387'

13) Method to Determine Fresh Water Depths: 47103034090000 Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 2308'

15) Approximate Coal Seam Depths: 1003'

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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Environmental Protection

WW-6B
(04/15)

API NO. 47- 103 - 03676
 OPERATOR WELL NO. Bessett Unit 1H MOD
 Well Pad Name: Lincoln Pad

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#	437'	437'	CTS, 455 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3100'	3100'	CTS, 1262 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	18000'	18000'	CTS, 3608 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		RECEIVED Office of Oil and Gas
Sizes:	N/A		NOV 08 2024
Depths Set:	N/A		WV Department of Environmental Protection

Smay
11/22/2024

WW-6B
(10/14)

API NO. 47- 103 - 03676
OPERATOR WELL NO. Bassett Unit 1H MOD
Well Pad Name: Lincoln Pad

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): 34.11 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.64 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 G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

WV Department of
Environmental Protection

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.

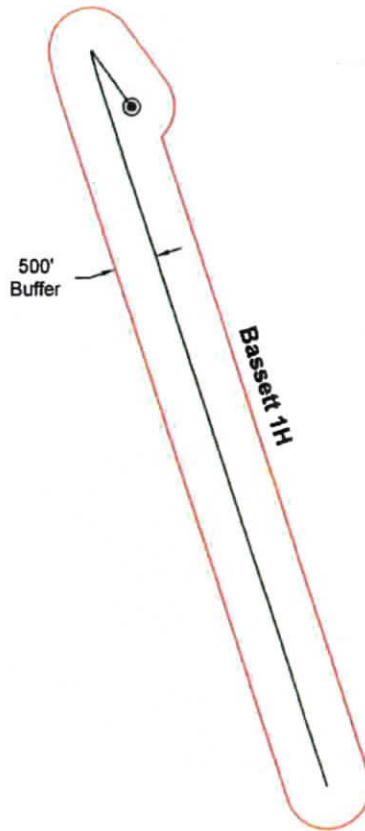
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11/22/24

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



Scale: 1 inch = 2000 feet

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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: July 11, 2024
SURVEYED: Dec. 2016	PROJECT NO: 09-34-G-24
FIELD CREW: C.L., K.M.	DRAWING NO: Bassett 1H AOR

Sheet 1 of 1

11/22/2024

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: Melinda A. Debner Lease			
Melinda A. Debner	Antero Resources Corporation	1/8+	327A/0871
A: J.L. Lancaster Lease			
J.L. Lancaster	F.M. Lowry	1/8	0059/0213
F.M. Lowry	Tri-State Gas Company	Assignment	0073/0155
Tri-State Gas Company	Manufacturers Light & Heat Company	Assignment	009A/0141
Manufacturers Light & Heat Company	A.M. Snider & Duane M. Snider	Assignment	048A/0109
A.M. Snider & Duane M. Snider	Hundred Gas Company	Assignment	0256/0189
Hundred Gas Company	Carl D. Perkins	Assignment	055A/0062
Carl D. Perkins	Perkins Oil & Gas, Inc.	Assignment	075A/0621
Perkins Oil & Gas, Inc.	Stone Energy Corporation	Assignment	126A/0958
Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
EQT Production Company	Antero Resources Company	Assignment	230A/0783
B: Melinda A. Debner Lease			
Melinda A. Debner	Antero Resources Corporation	1/8+	327A/0871
C: Blackrock Enterprises, LLC Lease			
Blackrock Enterprises, LLC	Antero Resources Corporation	1/8+	186A/0593
E: Patricia Lou Scheper Lease			
Patricia Lou Scheper	Antero Resources Corporation	1/8+	360A/0103
F: Shiben Estates, Inc. Lease			
Shiben Estates, Inc.	Antero Resources Corporation	1/8+	257A/0029
H: Chesapeake Appalachia, LLC Lease			
Chesapeake Appalachia, LLC	SWN Production Company LLC	1/8	157A/0640
SWN Production Company LLC	Antero Exchange Properties LLC	Assignment	177A/0533
Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
G: A.J. McHenry & Maggie McHenry Lease			
A.J. McHenry & Maggie McHenry	Tri-State Gas Company	1/8	0107/0342
Tri-State Gas Company	The Manufacturers Light & Heat Company	Assignment	009A/0141
The Manufacturers Light & Heat Company	A.M. Snider and Duane M. Snider	Assignment	048A/0109
A.M. Snider and Duane M. Snider	Hundred Gas Company	Assignment	0256/0189
Hundred Gas Company	Carl D. Perkins, et ux	Assignment	055A/0062
Carl D. Perkins, et ux	Perkins Oil & Gas Inc.	Assignment	084A/0009
Perkins Oil & Gas Inc.	Stone Energy Corporation	Assignment	126A/0958
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	296A/0432

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11/22/2024

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
I: J.W. Haught & A.B. Haught Lease			
J.W. Haught & A.B. Haught	Tri State Gas Company	1/8	0107/0340
Tri State Gas Company	The Manufacturers Light and Heat Company	Assignment	009A/0141
The Manufacturers Light and Heat Company	Hundred Gas Company	Assignment	048A/0109
Hundred Gas Company	Carl D. Perkins, et ux	Assignment	055A/0062
Carl D. Perkins, et ux	Perkins Oil & Gas Inc.	Assignment	075A/0621
Perkins Oil and Gas Inc.	Stone Energy Corporation	Assignment	126A/0658
Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
EQT Production Company	Antero Resources Corporation	Assignment	230A/0783
J: AMP V, LP Lease			
AMP V, LP	Antero Resources Corporation	1/8+	0295/0642
K: Tribune Resources Minerals, LLC Lease			
Tribune Resources Minerals, LLC	Antero Resources Corporation	1/8+	248A/0656
L: AMP V, LP Lease			
AMP V, LP	Antero Resources Corporation	1/8+	0295/0642

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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.

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>L: Chesapeake Appalachia, LLC Lease</u>				
	Chesapeake Appalachia, LLC	SWN Production Company, LLC	1/8	157A/0640
	SWN Production Company, LLC	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311

*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.

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**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.

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

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

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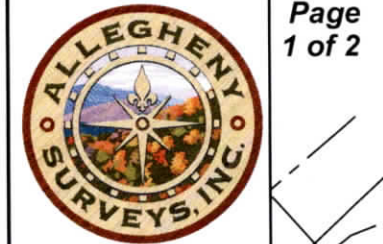
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WV Department of
Environmental Protection

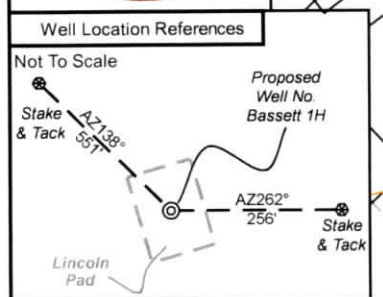
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

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

Antero Resources
Well No. Bassett 1H
BHL MOD
Antero Resources Corporation



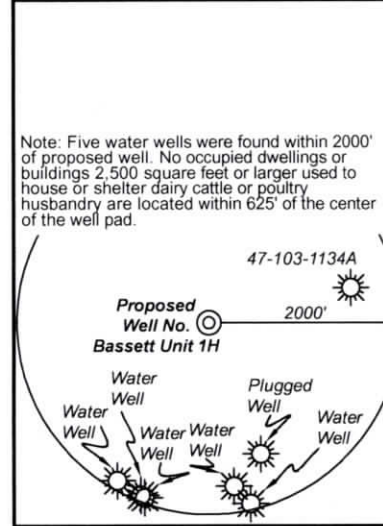
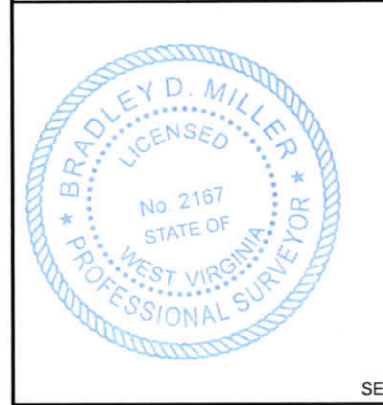
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1 of 2



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	N 17°48' E	988.9'
L2	N 35°27' W	1,353.3'
L3	S 83°24' W	1,120.6'
L4	S 89°47' E	2,644.4'
L5	N 67°23' W	361.9'

6,603' to Bottom Hole

8,992' to Top Hole

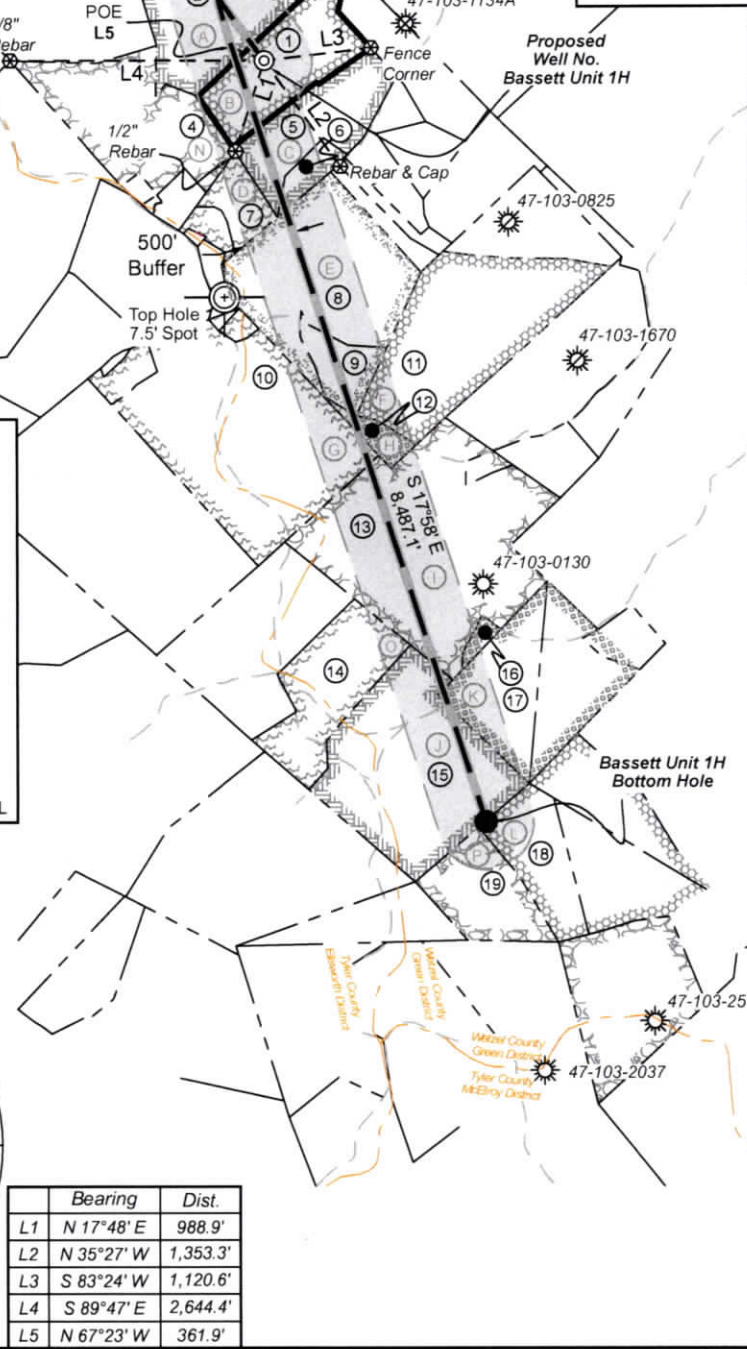
TOP HOLE LATITUDE 39 - 32 - 30
 BTM HOLE LATITUDE 39 - 30 - 00

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Bassett Unit 1H Top Hole coordinates are
 N: 373,534.02' Latitude: 39°31'08.18"
 E: 1,650,135.22' Longitude: 80°44'24.76"
 Bottom Hole coordinates are
 N: 365,599.66' Latitude: 39°29'50.08"
 E: 1,652,417.99' Longitude: 80°43'54.24"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,374,407.623m N: 4,372,001.984m
 E: 522,345.539m E: 523,081.272m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

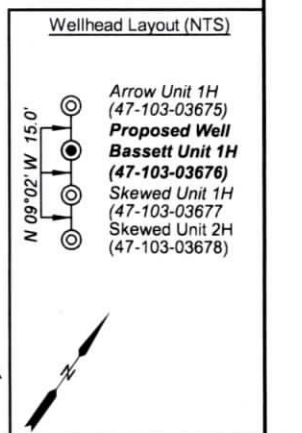
LONGITUDE 80 - 42 - 30

1,004' to Bottom Hole

8,278' to Top Hole



Notes:
 Well No. Bassett Unit 1H UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,350,987.00'
 E: 1,713,681.00'
 Point of Entry Coordinates
 N: 14,351,120.58'
 E: 1,713,344.76'
 Bottom Hole Coordinates
 N: 14,343,094.50'
 E: 1,716,095.05'



- 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.)
 - District Line

FILE NO: 09-34-G-24
 DRAWING NO: Bassett 1H BHL MOD
 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: August 21 20 24
 OPERATOR'S WELL NO. Bassett 1H
 API WELL NO
 47 - 103 - 03676
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Proposed Elev: 1,260' Existing Elev: 1,290' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzlar 1/22/2024
 SURFACE OWNER: Antero Midstream, LLC ACREAGE: 33.25
 ROYALTY OWNER: Melinda A. Debner LEASE NO: ACREAGE: 33.25

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: 18,000' 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



Leases	
A	J.L. Lancaster
B	Melinda A. Debner
C	Blackrock Enterprises, LLC
D	Nancy K. Sayre
E	Patricia Lou Scheper
F	Shiben Estates, Inc.
G	A.J. McHenry & Maggie McHenry
H	Chesapeake Appalachia, LLC
I	J.W. Haught & A.B. Haught
J	AMP V, LP
K	Tribune Resources Minerals, LLC
L	Chesapeake Appalachia, LLC
M	Deborah A. Beaver
N	Acropolis, Inc.
O	Antero Minerals, LLC
P	Dominic J. Kowalski, et ux

ID	TM-Par	Owner	Bk/Pg	Acres
1	20-23	Antero Midstream, LLC	465/156	33.30
2	19-49	Antero Midstream, LLC	465/156	32.30
3	19-48	Antero Midstream, LLC	465/156	51.00
4	19-50	Ronald H. Eastham, et al	451/110	40.00
5	20-29	Antero Midstream, LLC	465/153	20.90
6	20-38	Antero Midstream, LLC	465/153	6.50
7	22-1	Antero Midstream, LLC	465/156	8.61
8	22-41	Robert L. Jr. & Donna K. Jones	462/717	71.29
9	22-12	Robert L. Jr. & Donna K. Jones	297/500	10.80
10	18-9	Courtney N. Vancamp	638/148	86.50
11	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
12	22-13	Timothy L. & Vicki L. Glasscock	370/425	4.10
13	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
14	18-6	Eric D. Beatty & Jack Gordon Straight	651/575	31.96
15	18-7	Thomas Straight, et al	270/558	68.00
16	22-24	Thomas & Shawn Pratt	429/66	2.00
17	22-21	Thomas & Shawn Pratt	429/66	25.85
18	22-32	Dominic Joseph & Delmer Michele Kowalski	353/533	20.30
19	25-1	Dominic Joseph & Delmer Michele Kowalski	353/533	60.00

FILE NO: 09-34-G-24
 DRAWING NO: _____
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WV DOT, Harrisville, WV


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

DATE: August 21 20 24
 OPERATOR'S WELL NO. Bassett 1H
 API WELL NO
 47 - 103 - 03676
 STATE COUNTY PERMIT

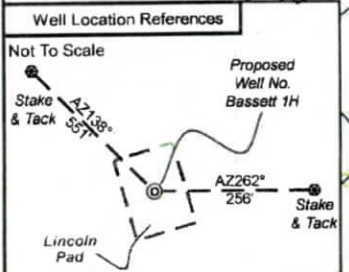
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 SURFACE OWNER: Antero Minerals, LLC ACREAGE: 33.25
 ROYALTY OWNER: Melinda A. Debner LEASE NO: _____ ACREAGE: 33.25
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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

Antero Resources
Well No. Bassett 1H
BHL MOD
Antero Resources Corporation



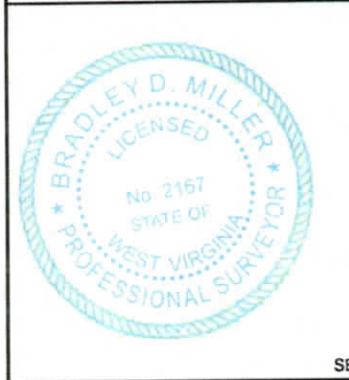
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1 of 2



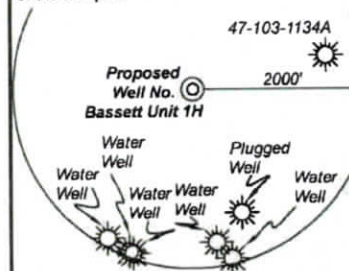
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167



Note: Five 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.



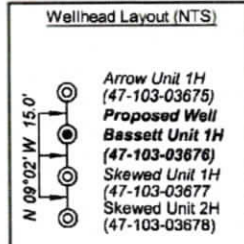
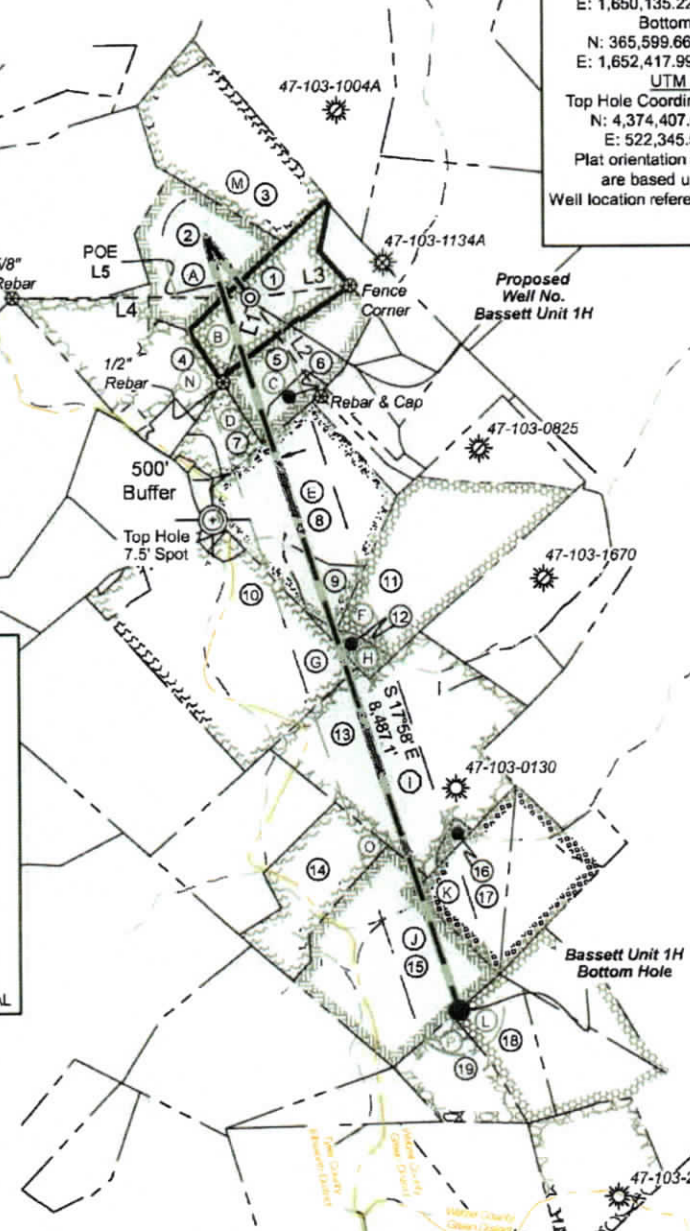
	Bearing	Dist.
L1	N 17°48' E	988.9'
L2	N 35°27' W	1,353.3'
L3	S 83°24' W	1,120.6'
L4	S 89°47' E	2,644.4'
L5	N 67°23' W	361.9'

6,603' to Bottom Hole
 8,992' to Top Hole

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

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Bassett Unit 1H Top Hole coordinates are
 N: 373,534.02' Latitude: 39°31'08.18"
 E: 1,650,135.22' Longitude: 80°44'24.76"
 Bottom Hole coordinates are
 N: 365,599.66' Latitude: 39°29'50.08"
 E: 1,652,417.99' Longitude: 80°43'54.24"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,374,407.623m N: 4,372,001.984m
 E: 522,345.539m E: 523,081.272m
 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. Bassett Unit 1H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,350,987.00'
 E: 1,713,681.00'
 Point of Entry Coordinates
 N: 14,351,120.58'
 E: 1,713,344.76'
 Bottom Hole Coordinates
 N: 14,343,094.50'
 E: 1,716,095.05'



- 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.)
 - District Line

FILE NO: 09-34-G-24
 DRAWING NO: Bassett 1H BHL MOD
 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: August 21 20 24
 OPERATOR'S WELL NO. Bassett 1H
 API WELL NO
 47 - 103 - 03676
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Proposed Elev: 1,260' Existing Elev: 1,290' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green COUNTY: Wetzel
 SURFACE OWNER: Antero Midstream, LLC ACREAGE: 33.25
 ROYALTY OWNER: Melinda A. Debner LEASE NO: ACREAGE: 33.25

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: 18,000' 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

Smc
 11/7/24



Leases	
A	J.L. Lancaster
B	Melinda A. Debner
C	Blackrock Enterprises, LLC
D	Nancy K. Sayre
E	Patricia Lou Scheper
F	Shiben Estates, Inc.
G	A.J. McHenry & Maggie McHenry
H	Chesapeake Appalachia, LLC
I	J.W. Haught & A.B. Haught
J	AMP V, LP
K	Tribune Resources Minerals, LLC
L	Chesapeake Appalachia, LLC
M	Deborah A. Beaver
N	Acropolis, Inc.
O	Antero Minerals, LLC
P	Dominic J. Kowalski, et ux

ID	TM-Par	Owner	Bk/Pg	Acres
1	20-23	Antero Midstream, LLC	465/156	33.30
2	19-49	Antero Midstream, LLC	465/156	32.30
3	19-48	Antero Midstream, LLC	465/156	51.00
4	19-50	Ronald H. Eastham, et al	451/110	40.00
5	20-29	Antero Midstream, LLC	465/153	20.90
6	20-38	Antero Midstream, LLC	465/153	6.50
7	22-1	Antero Midstream, LLC	465/156	8.61
8	22-41	Robert L. Jr. & Donna K. Jones	462/717	71.29
9	22-12	Robert L. Jr. & Donna K. Jones	297/500	10.80
10	18-9	Courtney N. Vancamp	638/148	86.50
11	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
12	22-13	Timothy L. & Vicki L. Glasscock	370/425	4.10
13	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
14	18-6	Eric D. Beatty & Jack Gordon Straight	651/575	31.96
15	18-7	Thomas Straight, et al	270/558	68.00
16	22-24	Thomas & Shawn Pratt	429/66	2.00
17	22-21	Thomas & Shawn Pratt	429/66	25.85
18	22-32	Dominic Joseph & Delmer Michele Kowalski	353/533	20.30
19	25-1	Dominic Joseph & Delmer Michele Kowalski	353/533	60.00

FILE NO: 09-34-G-24
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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STATE COUNTY PERMIT

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