



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 25, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Skewed Unit 1H
47-103-03677-00-00

Extending 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: Skewed Unit 1H
Farm Name: Antero Midstream, LLC
U.S. WELL NUMBER: 47-103-03677-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/25/2024

Promoting a healthy environment.

10/10/2025

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

- 1) Well Operator: Antero Resources Corporation 494507062 103 - Wetzel Green Pine Grove 7.5'
Operator ID County District Quadrangle
- 2) Operator's Well Number: Skewed 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 X Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow X Deep _____
Horizontal X _____
- 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: 19700' MD
- 11) Proposed Horizontal Leg Length: 10087' *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 X
- (a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WW-6B
(04/15)

4710303677
API NO. 47-103 -
OPERATOR WELL NO. Skewed Unit 1H MOD
Well Pad Name: Lincoln 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	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#	19700'	19700'	CTS, 4036 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

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

PACKERS

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

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Page 2 of 3

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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.

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

Conductor: no additives, Class A/L cement.

Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class G/H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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

*Note: Attach additional sheets as needed.

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11/13/24

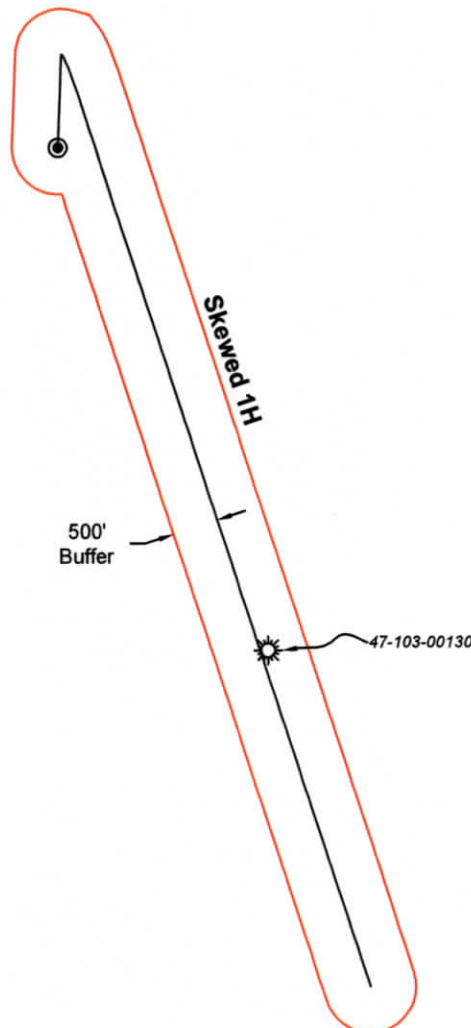
4710303677

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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10/10/2025



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: 130-34-G-18
FIELD CREW: C.L., K.M.	DRAWING NO: Skewed 1H AOR

Sheet 1 of 1

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103001300000	PERKINS		PERKINS OIL & GAS	UNKNOWN	2,329		Big Injun, Gordon	Weir, Berea, Benson, Alexander

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4710303677

Antero Resources

Well No. Skewed 1H

BHL MOD

Antero Resources Corporation

ALLEGHENY

SURVEYS, INC.

Page 1 of 2

Well Location References

Not To Scale

Stake & Tack

AZ143° 53'

Proposed Well No. Skewed 1H

AZ254° 27'

Stake & Tack

Lincoln Pad

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, P.S. 2167

BRADLEY D. MILLER

LICENSED

No 2167

STATE OF WEST VIRGINIA

PROFESSIONAL SURVEYOR

SEAL

5,522' to Bottom Hole

8,989' to Top Hole

TOP HOLE LATITUDE 39 - 32 - 30

BTM HOLE LATITUDE 39 - 30 - 00

LONGITUDE 80 - 42 - 30

8,292' to Top Hole

2,156' to Bottom Hole

Notes

West Virginia Coordinate System of 1927, North Zone

based upon Differential GPS Measurements.

Well No. Skewed Unit 1H Top Hole coordinates are

N: 373,519.21' Latitude: 39°31'08.04"

E: 1,650,137.57' Longitude: 80°44'24.72"

Bottom Hole coordinates are

N: 364,433.44' Latitude: 39°29'38.70"

E: 1,653,483.21' Longitude: 80°43'40.45"

UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates

N: 4,374,403.12m N: 4,371,652.112m

E: 522,346.330m E: 523,411.734m

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. Skewed Unit 1H

UTM Zone 17, NAD 1927

Top Hole Coordinates

N: 14,350,972.24'

E: 1,713,683.59'

Point of Entry Coordinates

N: 14,351,486.82'

E: 1,713,913.84'

Bottom Hole Coordinates

N: 14,341,946.61'

E: 1,717,179.22'

Wellhead Layout (NTS)

Arrow Unit 1H (47-103-03675)

Bassett Unit 1H (47-103-03676)

Proposed Well Skewed Unit 1H (47-103-03677)

Skewed Unit 2H (47-103-03678)

N 09°02' W 15.0'

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

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.

47-103-1134A

2000'

Proposed Well No. Skewed Unit 1H

Water Well

Plugged Well

Water Well

Water Well

Water Well

Water Well

	Bearing	Dist.
L1	N 18°12' E	975.5'
L2	N 35°44' W	1,339.9'
L3	S 82°38' W	1,120.1'
L4	S 89°28' E	2,646.8'
L5	N 25°04' E	563.9'

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

FILE NO: 130-34-G-18

DRAWING NO: Skewed 1H BHL MOD

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

DATE: August 21 20 24

OPERATOR'S WELL NO. Skewed 1H

API WELL NO

47 - 103 - 03677

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: 19,700' 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	Melinda A. Debner
D	Deborah A. Beaver
E	J.L. Lancaster
F	Blackrock Enterprises, LLC
G	Sandra D. Derby
H	Sandra D. Derby
I	Sandra D. Derby
J	Clyde Bert Snider
K	Patricia Lou Scheper
L	Shiben Estates, Inc.
M	BRC Appalachian Minerals I, LLC
N	J.W. Haught & A.B. Haught
O	Chesapeake Appalachia, LLC
P	Christian Engle & Amy Engle
Q	Tribune Resources Minerals, LLC
S	Chesapeake Appalachia, LLC
T	AMP V, LP
U	Dominic J. Kowalski, et ux
Y	Dee & Marvin W. Johnson

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	20-29	Antero Midstream, LLC	465/153	20.90
5	22-38	Antero Midstream, LLC	465/153	6.50
6	20-40	Antero Midstream, LLC	472/1	3.50
7	20-41	Antero Midstream, LLC	472/1	7.96
8	20-39	Antero Midstream, LLC	472/1	3.50
9	22-4	Antero Midstream, LLC	472/1	4.50
10	20-43	Antero Midstream, LLC	472/1	3.50
11	22-41	Robert L. Jr. & Donna K. Jones	462/717	71.29
12	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
13	22-12	Robert L. Jr. & Donna K. Jones	297/500	10.80
14	22-13	Timothy L. & Vicki L. Glasscock	370/425	4.10
15	22-14.1	Tony Eugene Crabtree	365/337	41.80
16	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
17	22-18.1	Aaron E. & Julie A. Hindman	419/505	2.11
18	22-24	Thomas & Shawn Pratt	429/66	2.00
19	22-21	Thomas & Shawn Pratt	429/66	25.85
20	22-21.2	Thomas & Shawn Pratt	312/697	23.00
21	18-7	Thomas Straight, et al	270/558	68.00
22	22-27	Dominic Joseph & Delmer Michele Kowalski	353/533	20.30
23	22-32	Dominic Joseph & Delmer Michele Kowalski	353/533	20.30
24	22-33	Dominic Joseph & Delmer Michele Kowalski	353/533	20.30
25	25-1	Dominic Joseph & Delmer Michele Kowalski	353/533	60.00
26	3-10	Dominic Joseph & Delmer Michele Kowalski	301/437	43.00

FILE NO: 130-34-G-18
DRAWING NO: Skewed 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. Skewed 1H
API WELL NO
47 - 103 - 03677
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 Minerals, 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: 19,700' 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

WW-6A1
(5/13)

Operator's Well No. Skewed Unit 1H 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>U: Dominic J. Kowalski, et ux Lease</u>				
	Dominic J. Kowalski, et ux	Mountain Link Associates, Inc.	1/8	090A/0366
	Mountain Link Associates, Inc.	Little Amber Ridge Limited Partnership	Assignment	091A/0051
	Little Amber Ridge Limited Partnership	Reed Brothers Limited Partnership	Assignment	091A/0224
	Reed Brothers Limited Partnership	Whittle Corporation	Assignment	093A/0056
	Whittle Corporation	Montani Energy	Assignment	130A/0658
	Montani Energy	Antero Resources Appalachian Corporation	Assignment	130A/0658
	Antero Resources Appalachian Corporation	Jay-Bee Exploration	Assignment	143A/0719
	Jay-Bee Exploration I, LLC	Antero Resources Corporation	Assignment	JOA

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

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

**Pooling/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**

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Office Of Oil and Gas

NOV 12 2024

WV Department of
Environmental Protection

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

WW-6A1

Operator's Well Number Skewed Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>A: Melinda A. Debner Lease</u> Melinda A. Debner	Antero Resources Corporation	1/8+	327A/0871
<u>E: J.L. Lancaster Lease</u> J.L. Lancaster F.M. Lowry Tri-State Gas Company Manufacturers Light & Heat Company A.M. Snider & Duane M. Snider Hundred Gas Company Carl D. Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation EQT Production Company	F.M. Lowry Tri-State Gas Company Manufacturers Light & Heat Company A.M. Snider & Duane M. Snider Hundred Gas Company Carl D. Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation EQT Production Company Antero Resources Company	1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	0059/0213 0073/0155 009A/0141 048A/0109 0256/0189 055A/0062 075A/0621 126A/0958 183A/0305 230A/0783
<u>D: Deborah A. Beaver Lease</u> Deborah A. Beaver	Antero Resources Corporation	1/8+	0173/0106
<u>E: J.L. Lancaster Lease</u> J.L. Lancaster F.M. Lowry Tri-State Gas Company Manufacturers Light & Heat Company A.M. Snider & Duane M. Snider Hundred Gas Company Carl D. Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation EQT Production Company	F.M. Lowry Tri-State Gas Company Manufacturers Light & Heat Company A.M. Snider & Duane M. Snider Hundred Gas Company Carl D. Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation EQT Production Company Antero Resources Company	1/8 Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment Assignment	0059/0213 0073/0155 009A/0141 048A/0109 0256/0189 055A/0062 075A/0621 126A/0958 183A/0305 230A/0783
<u>A: Melinda A. Debner Lease</u> Melinda A. Debner	Antero Resources Corporation	1/8+	327A/0871
<u>F: Blackrock Enterprises, LLC Lease</u> Blackrock Enterprises, LLC	Antero Resources Corporation	1/8+	186A/0593
<u>I: Sandra D. Derby Lease</u> Sandra D. Derby	Antero Resources Corporation	1/8+	232A/0202
<u>J: Clyde Bert Snider Lease</u> Clyde Bert Snider	Antero Resources Corporation	1/8+	342A/0573
<u>K: Patricia Lou Scheper Lease</u> Patricia Lou Scheper	Antero Resources Corporation	1/8+	360A/0103
<u>L: Shiben Estates, Inc. Lease</u> Shiben Estates, Inc.	Antero Resources Corporation	1/8+	257A/0029

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Operator's Well Number Skewed Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
N: 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	Assignment	055A/0062
Carl D. Perkins	Perkins Oil and Gas Inc.	Assignment	075A/0621
Perkins Oil and Gas Inc.	Stone Energy Corporation	Assignment	126A/0658
Stone Energy Corporation	EQT Production Company	Assignment	126A/0658
EQT Production Company	Antero Resources Corporation	Assignment	230A/0783
Q: Tribune Resources Minerals, LLC Lease			
Tribune Resources Minerals, LLC	Antero Resources Corporation	1/8+	248A/0656
S: 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

*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.

RECEIVED
Office Of Oil and Gas

NOV 12 2024

WV Department of
Environmental Protection

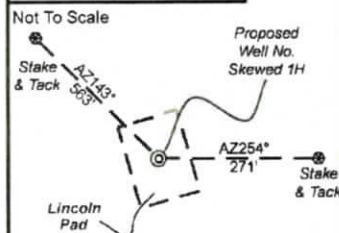
10/10/2025

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



Page
1 of 2

Well Location References



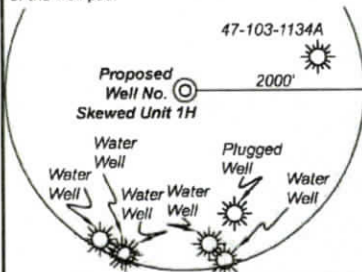
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



SEAL

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 18°12' E	975.5'
L2	N 35°44' W	1,339.9'
L3	S 82°38' W	1,120.1'
L4	S 89°28' E	2,646.8'
L5	N 25°04' E	563.9'

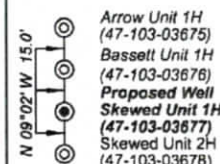
5,522' to Bottom Hole
8,989' to Top Hole
TOP HOLE LATITUDE 39 - 32 - 30
BTM HOLE LATITUDE 39 - 30 - 00

LONGITUDE 80 - 42 - 30

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Skewed Unit 1H Top Hole coordinates are
N: 373,519.21' Latitude: 39°31'08.04"
E: 1,650,137.57' Longitude: 80°44'24.72"
Bottom Hole coordinates are
N: 364,433.44' Latitude: 39°29'38.70"
E: 1,653,483.21' Longitude: 80°43'40.45"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,374,403.12m N: 4,371,652.112m
E: 522,346.330m E: 523,411.734m
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. Skewed Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,350,972.24'
E: 1,713,683.59'
Point of Entry Coordinates
N: 14,351,486.82'
E: 1,713,913.84'
Bottom Hole Coordinates
N: 14,341,946.61'
E: 1,717,179.22'

Wellhead Layout (NTS)



- 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: 130-34-G-18

DRAWING NO: Skewed 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. Skewed 1H

API WELL NO

47 - 103 - 03677
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: 19,700' 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

10/10/2025