



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, November 13, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Atkinson Unit 1H
47-033-06118-00-00

Lateral Extension w/ Forced Pooling

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 black ink that reads "Jason Harmon".

H. Jason Harmon
Acting Chief

Operator's Well Number: Atkinson Unit 1H
Farm Name: Robert G & Christine E Flanigan etal
U.S. WELL NUMBER: 47-033-06118-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/13/2025

Promoting a healthy environment.

11/14/2025

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

- 1) Well Operator: Antero Resources Corporat 494507062 033 - Harris Eagle Wolf Summit 7.5'
Operator ID County District Quadrangle
- 2) Operator's Well Number: Atkinson Unit 1H MOD Well Pad Name: Flanigan Pad
- 3) Farm Name/Surface Owner: Robert G. & Christine Flanigan, et al Public Road Access: Gregorys Run Road
- 4) Elevation, current ground: 1,161' Elevation, proposed post-construction: 1,154'
- 5) Well Type (a) Gas X Oil Underground Storage
Other
(b) If Gas Shallow X Deep
Horizontal X
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#
- 8) Proposed Total Vertical Depth: 7700' TVD
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 24800" MD
- 11) Proposed Horizontal Leg Length: 15226' *Open to modification at a later date
- 12) Approximate Fresh Water Strata Depths: 424'
- 13) Method to Determine Fresh Water Depths: From 47033009510000
- 14) Approximate Saltwater Depths: 1176'
- 15) Approximate Coal Seam Depths: N/A
- 16) Approximate Depth to Possible Void (coal mine, karst, other): Yes
- 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:

Jeff A
Propst

Digitally signed by: Jeff A
Propst
DN: CN = Jeff A Propst email
= jeff.a.propst@wv.gov C = US
Date: 2025.11.05 15:22:17 -
05'00'

11/14/2025
Page 1 of 3

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#	474'	474'	CTS, 494 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#	24800'	24800' ✓	CTS, 5321 Cu. Ft. ✓
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Jeff A Propst
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DN: CN = Jeff A Propst email = jeff.a.propst@wv.gov C = US
Date: 2025.11.05 15:22:31 -05'00'

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			

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): 12.63 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.64 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:

*Note: Attach additional sheets as needed.

Jeff A
Propst

Digitally signed by: Jeff A Propst
DN: CN = Jeff A Propst email =
jeff.a.propst@wv.gov C = US
Date: 2025.11.05 15:22:44 -
05'00'

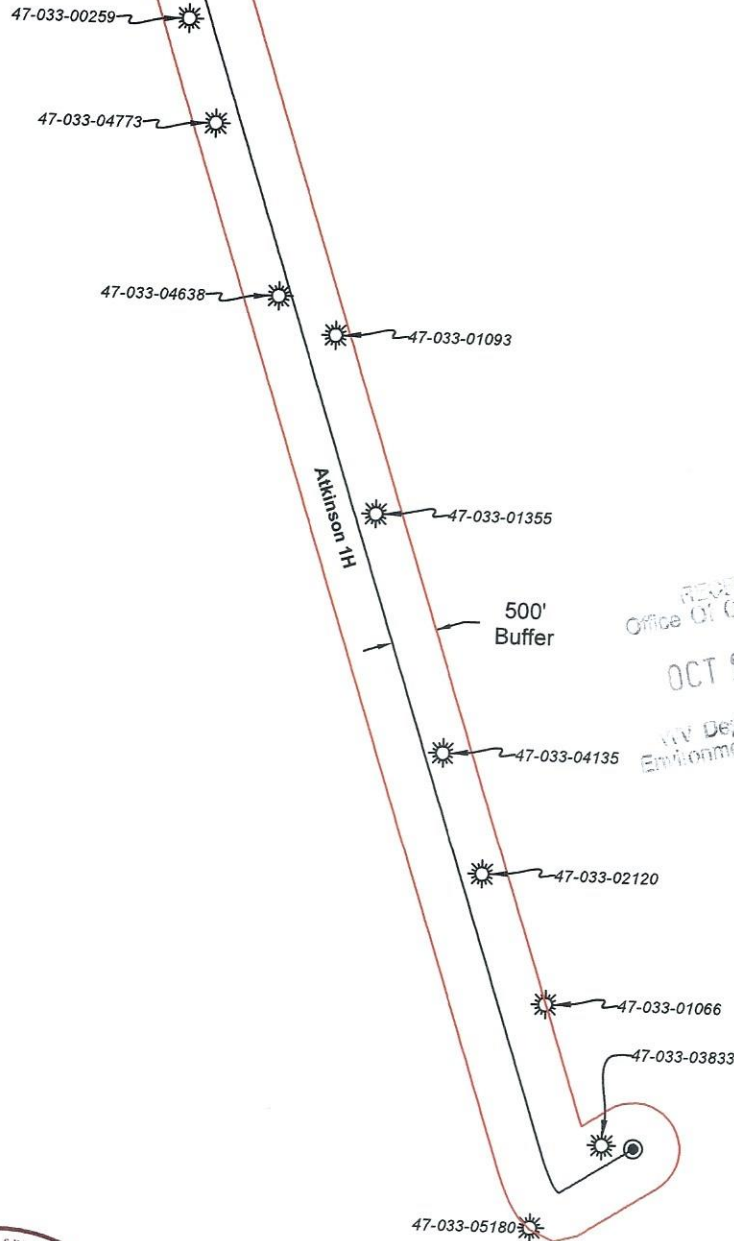
11/14/2025
Page 5 of 5

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



RECEIVED
Office of Oil and Gas
OCT 28 2025
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

RESEARCH: J. Miller

SURVEYED: Dec. 2016

FIELD CREW: C.L., K.M.

DRAWN BY: C. Robinson

PREPARED: September 23, 2025

PROJECT NO: 173-36-E-17

Sheet 1 of 1

DRAWING NO: Atkinson 1H Shorty AOR

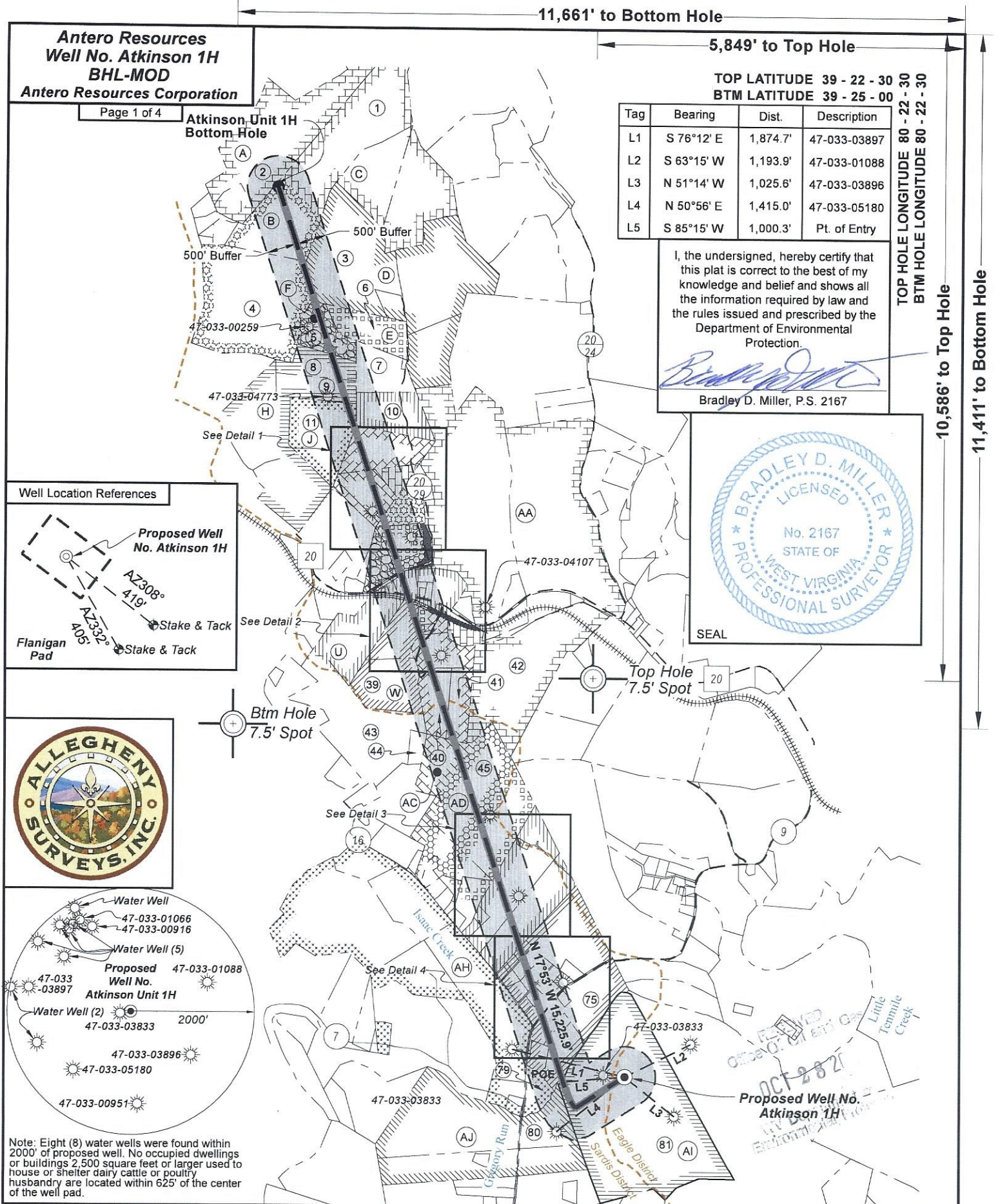


Scale: 1 inch = 2000 feet

11/14/2025

UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4703303833	COFFMAN A W	COFFMANK-7	DEVONIAN GAS PRODUCTION INC	KRISCOTT INC	4,660	3010 - 4587	Speechley, Balltown, Benson	
4703305180	ROBERT A FLANIGAN	32315	DIVERSIFIED PRODUCTION LLC	DOMINION EXPL&PROD	3,498	1524 - 3337	Big Injun, Thirty-Foot, Gordon, Fifth, Speechley, Balltown	Weir, Alexander
4703301066	JAMES MONROE	B-969	R & R OIL & GAS LLC	SCOTT ENTERPRISES	4,569	3306 - 3344	Balltown	Weir, Alexander
4703302120	C W MURRAY	2104	DIVERSIFIED PRODUCTION LLC	HOPE NATURAL GAS	1,590		Big Injun	Weir, Benson, Alexander
4703304135	MCQUAID AL	1	DIVERSIFIED PRODUCTION LLC	EXPLORATION PARTNERS	3,680	1604 - 3512	Big Lime, Big Injun, Fifth, Speechley, Balltown	Weir, Benson, Alexander
4703301355	SOPH LANG	2945	DIVERSIFIED PRODUCTION LLC	HOPE NATURAL GAS	2,020		Fifty Foot, Thirty Foot	Weir, Benson, Alexander
4703301093	JOHN H ROGERS	2B-124	DIVERSIFIED PRODUCTION LLC	J & J ENTERPRISES	4,551	3249 - 4435	Thirty Foot, Fifth, Benson	Weir, Alexander
4703304638	CUNNINGHAM	1	DIVERSIFIED PRODUCTION LLC	MARSHALL OIL & GAS	4,661	2316 - 4598	Hampshire Grp, Greenland Gap, Misc Sands	Weir, Benson, Alexander
4703304773	ROGERS	1	DIVERSIFIED PRODUCTION LLC	DIVERSIFIED RESRCS C	4,650	2275 - 4510	Fifth, Greenland Gap, Java	Weir, Benson, Alexander
4703300259	A MOORE	2	MID-AMERICA EXPL	MID-AMERICA EXPL	3,269		Up Devonian	Weir, Benson, Alexander

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Office of Oil and Gas
28 2025
Department of
Environmental Protection



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

LOCATION: ELEVATION: Proposed 1,154.4' WATERSHED: Tenmile Creek QUADRANGLE: Wolf Summit

DISTRICT: Eagle & Sardis COUNTY: Harrison

SURFACE OWNER: Robert G. & Christine E. Flanigan, et al ACREAGE: 129.00

ROYALTY OWNER: A.W. & Susan C. Coffman LEASE NO: ACREAGE: 129.00

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 7,700' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,800' MD

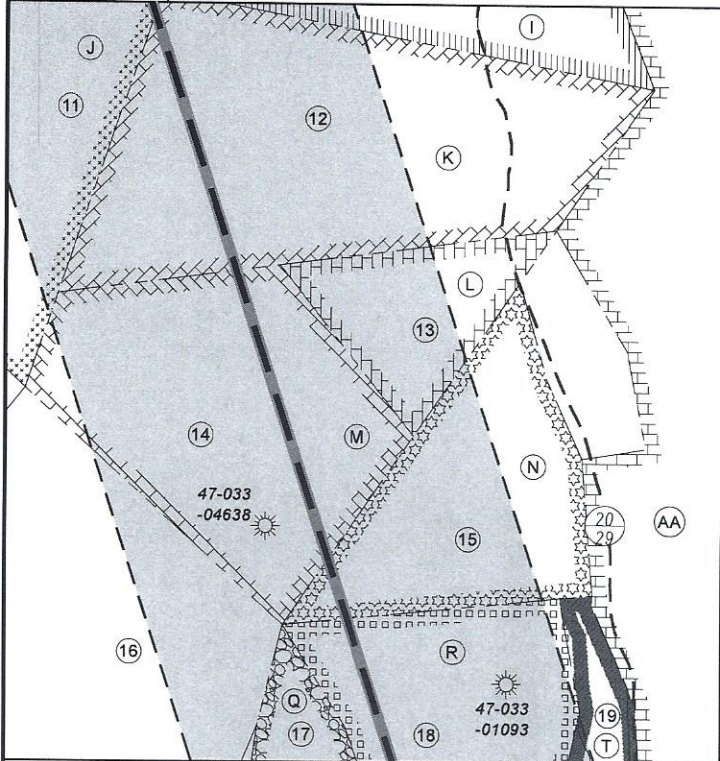
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

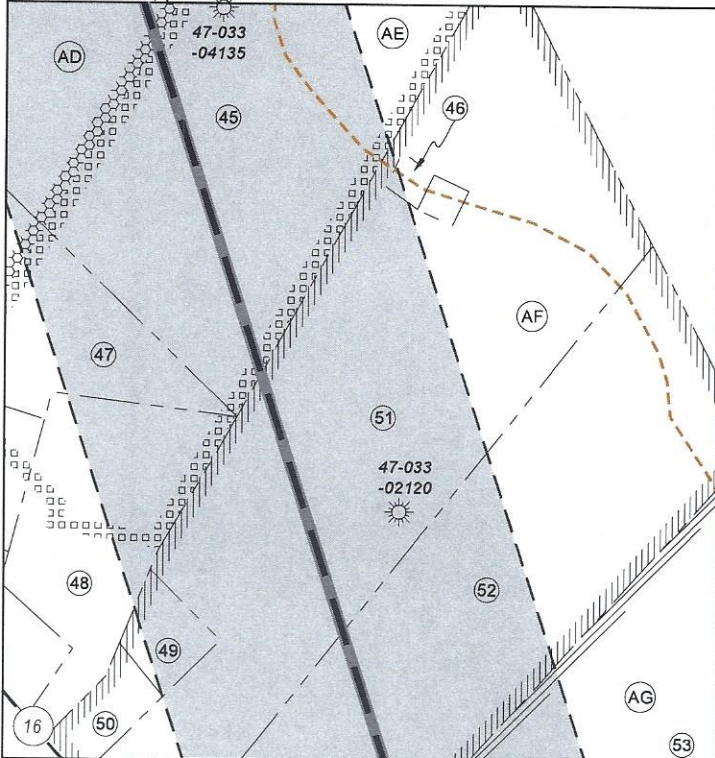
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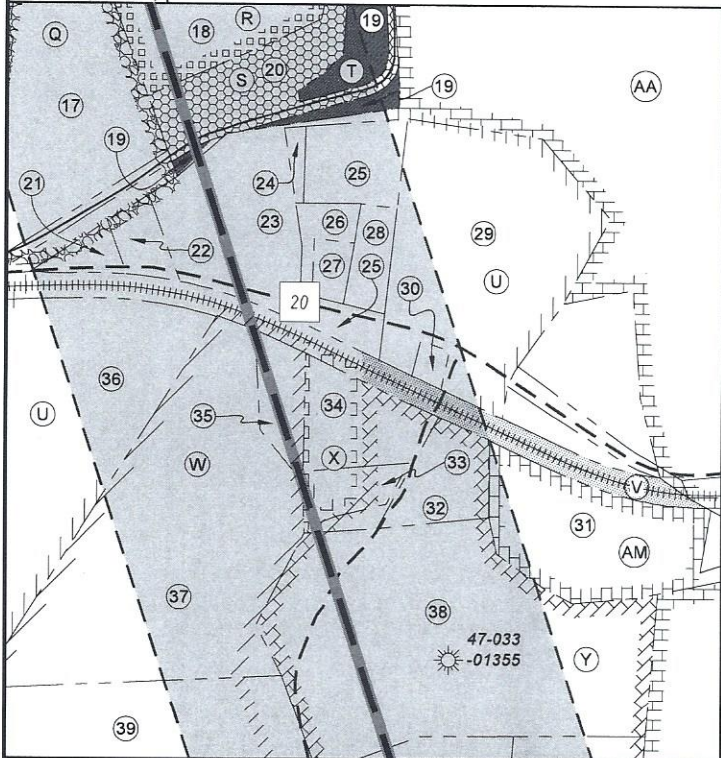
Detail 1 (1"=500')



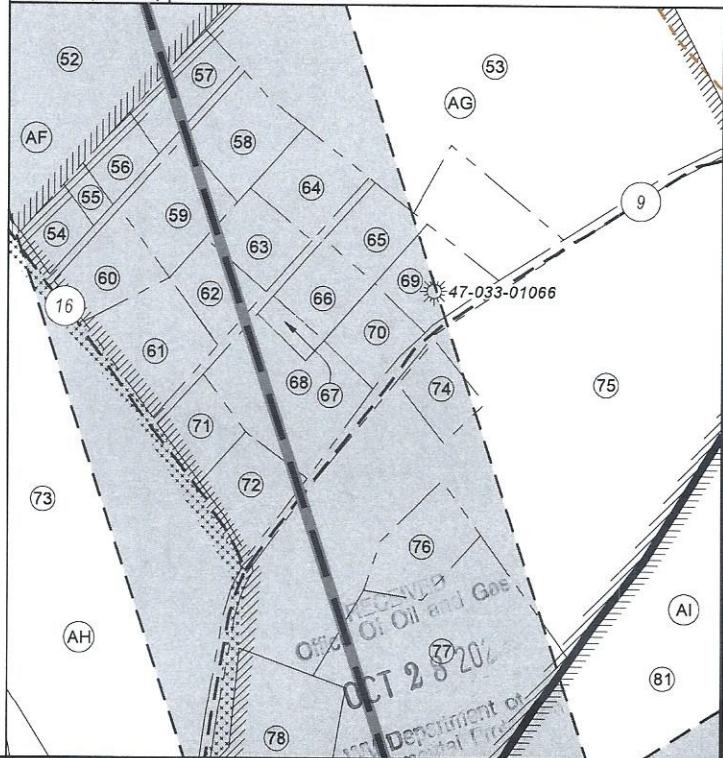
Detail 3 (1"=500')



Detail 2 (1"=500')



Detail 4 (1"=500')



FILE NO: 173-36-EO-17

DRAWING NO: Atkinson Unit 1H BHL-MOD 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: September 25 20 25

OPERATOR'S WELL NO. Atkinson Unit 1H

API WELL NO

47 - 033 - 06118
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Proposed 1,154.4' WATERSHED: Tenmile Creek

DISTRICT: Eagle & Sardis

SURFACE OWNER: Robert G. & Christine E. Flanigan, et al

QUADRANGLE: Wolf Summit

COUNTY: Harrison

ACREAGE: 129.00

11/14/2025

ROYALTY OWNER: A.W. & Susan C. Coffman

LEASE NO:

ACREAGE: 129.00

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☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 7,700' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,800' MD

WELL OPERATOR: Antero Resources Corporation

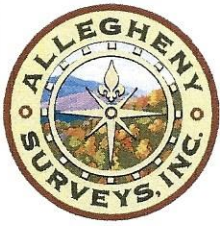
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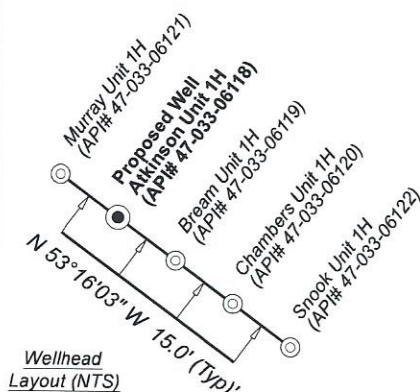
Denver, CO 80202

Bridgeport, WV 26330



Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing road
- Surface boundary (approx.)
- District line (approx.)



Notes
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Atkinson Unit 1H Top Hole coordinates are
N: 309,370.42' Latitude: 39°20'45.38"
E: 1,746,695.02' Longitude: 80°23'44.45"
Bottom Hole coordinates are
N: 323,778.02' Latitude: 39°23'07.21"
E: 1,741,023.01' Longitude: 80°24'58.52"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,355,350.801m N: 4,359,711.423m
E: 552,089.489m E: 550,288.344m
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. Atkinson Unit 1H
UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,288,463.06'
E: 1,811,265.22'
Point of Entry Coordinates
N: 14,288,363.74'
E: 1,810,270.23'
Bottom Hole Coordinates
N: 14,302,769.60'
E: 1,805,355.85'

Tag	Lease
A	A. J. Michael & Virginia Michael, his wife
B	Donley Boggess, et al
C	Louisa C. Robinson & D.D. Robinson, her husband
D	J.N. Swiger & H.J. Swiger, his wife
E	Martha V. Rogers
F	Will E. Morris Heirs Trust
H	Fred Rogers & Mae A. Rogers, his wife
I	David E. Nay & Rebecca L. Nay
J	M.E.R. Royalties, LLC
K	Neal B. Swiger, et al
L	Jessie Jerome Williams
M	Patrick Cunningham & Frank Cunningham
N	WVTI, LLC
Q	Thomas Lee & Charlotte Ann Rogers
R	Erma Rogers, et al
S	Erma Rogers, et al
T	Erma Rogers, et al
U	James Deniers Fontanez
V	CSX Transportation, Inc.
W	Frank Oren Cunningham
X	AMP IV, LP
Y	Sophronia Lang, a single woman
AA	A.G. Swiger
AC	Lille B. Fortney & Jacob D. Fortney
AD	Rodger Scott Byrd
AE	A.L. McQuaid & Harriet M. McQuaid, his wife
AF	Chas W. Murray & Clara I. Murray, h/w
AG	L.C. Harbert & Sarah J. Harbert, his wife
AH	Serena Ashcraft & J.J. Ashcraft, her husband
AI	A.W. Coffman, et ux
AJ	Quintilla Boggess, et al
AM	Sophronia Lang

FILE NO: 173-36-EO-17
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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: September 25 20 25
OPERATOR'S WELL NO. Atkinson Unit 1H
API WELL NO
47 - 033 - 06118
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: Proposed 1,154.4' WATERSHED: Tenmile Creek QUADRANGLE: Wolf Summit
DISTRICT: Eagle & Sardis COUNTY: Harrison 11/14/2025
SURFACE OWNER: Robert G. & Christine E. Flanigan, et al ACREAGE: 129.00
ROYALTY OWNER: A.W. & Susan C. Coffman LEASE NO: ACREAGE: 129.00
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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330



Harrison County					Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.	No.	TM / Par	Owner	Bk / Pg	Ac.
1	205 / 11	Tenmile Ranch, LLC	1754 / 249	81.35	41	225 / 18	James & Carol M. Rush	1763 / 15	14.00
2	185 / 54	Michael H. Barns	1766 / 671	69.50	42	225 / 21	Patrick H. & Frank O. Cunningham	W203 / 413	64.00
3	205 / 32	Romona A. & Richard P. Swiger, Jr.	1184 / 420	50.15	43	225 / 30	Gregory D. Skidmore	1676 / 204	45.96
4	205 / 31	Delores Jean Stewart	1497 / 1235	63.33	44	225 / 33	Gregory D. Skidmore	W195 / 122	3.20
5	205 / 33	Justin Amos	1767 / 907	11.50	45	225 / 35.1	Gregory K. Davisson, et al	1763 / 1314	77.80
6	205 / 37	Nickole R. & Richard P. Swiger, III	1463 / 438	14.58	46	225 / 55.4	Short Line Public Service	1437 / 228	0.23
7	205 / 36	Jessie J. Williams	1354 / 480	13.25	47	225 / 35	Cheryl L. Meredith & Christopher A. Singleton	1715 / 958	13.33
8	205 / 34	Christopher A. & Stacy N. Swiger	1694 / 239	11.00	48	225 / 53	Joseph W. & Louella L. Summers	873 / 6	5.34
9	205 / 35	Christopher A. & Stacy N. Swiger	1694 / 239	11.00	49	225 / 55.3	Joseph W. & Louella L. Summers	1081 / 270	1.01
10	205 / 55	Patrick H. & Frank O. Cunningham	W203 / 413	13.15	50	225 / 55.1	Florence A. Lough	W172 / 1153	1.00
11	205 / 54	Christopher A. & Stacy N. Swiger	1694 / 239	26.00	51	225 / 55	Starla K. & Thyron L. Bates	1717 / 98	24.83
12	205 / 57	WVTI, LLC	1743 / 461	18.00	52	225 / 56	Starla K. & Thyron L. Bates	1717 / 98	23.40
13	205 / 58	Jessie J. Williams	1354 / 480	6.50	53	225 / 73	Jason C. & Kristin A. Cunningham	1610 / 1185	24.12
14	205 / 58.1	Patrick H. & Frank O. Cunningham	W203 / 413	10.00	54	225A / 4	Larry K. & Sally J. Tetrick	1008 / 1015	0.58
15	205 / 59	WVTI, LLC	1742 / 225	7.99	55	225A / 3	Larry K. & Sally J. Tetrick	1008 / 1015	0.22
16	205 / 71	Thomas L. & Charlotte A. Rogers	1284 / 409	26.80	56	225A / 2	Nancy V. Kerns	1423 / 14	0.60
17	205 / 71.1	Thomas L. & Charlotte A. Rogers	1284 / 409	8.04	57	225A / 1	Nancy V. Kerns	1423 / 14	0.85
18	205 / 75	Thomas L. & Charlotte A. Rogers	1398 / 223	9.52	58	225A / 17	Bradley D. Rodeheaver, II	1671 / 446	1.27
19	205 / 75.2	Jason A. & Rebecca A. Gorby	1542 / 667	2.20	59	225A / 5	Martha D. Flowers	1024 / 1114	1.31
20	205 / 75.1	Thomas L. & Charlotte A. Rogers	1086 / 1152	2.80	60	225A / 15	Andrew Neptune	1604 / 408	1.05
21	205 / 72	Richard L. Bartrug	1701 / 108	0.38	61	225A / 9	Randal A. & Lisa M. Knight	1245 / 369	1.50
22	205 / 73	WVTI, LLC	1741 / 417	0.61	62	225A / 14	Joseph B. & Cheryl L. Duffy	1356 / 397	0.65
23	205 / 74	Harold R. & Carol L. Sears	1496 / 1240	2.63	63	225A / 6	Richard R. & Renee L. Casteel	1218 / 497	1.07
24	205 / 74.1	M.T. & K.D. Cunningham	1731 / 33	0.21	64	225A / 16	James E. & Janelle A. Savage	1002 / 836	1.07
25	205 / 76	Michael T. & Kimberly D. Cunningham	1731 / 33	2.16	65	225A / 18	Glacus Gladwell	1364 / 990	0.82
26	205 / 76.3	Michael T. & Kimberly D. Cunningham	1784 / 228	0.45	66	225A / 13	Loretta Mayfield	1567 / 127	0.80
27	205 / 76.2	Daniel M. Baney, et al	1570 / 212	0.34	67	225A / 12.1	Loretta Mayfield	1567 / 127	0.25
28	205 / 76.1	Daniel M. Baney, et al	1570 / 212	0.64	68	225A / 12	Raymond S. Swiger & Kris M. Wagner	1524 / 658	2.23
29	205 / 77	Deniers J. Fontanez	W204 / 310	6.26	69	225A / 21	Edna D. Swiger (LE)	1654 / 1120	1.30
30	205 / 78	Private Cemetery	xxxx / xxxx	0.20	70	225A / 19	Edna D. Swiger (LE)	1654 / 1120	0.84
31	225 / 15	Trustees Tenmile Baptist Church	785 / 519	2.00	71	225A / 11	Sally M. Lane	1753 / 971	0.76
32	225 / 13	James & Carol M. Rush	1763 / 15	1.23	72	225A / 20	Wilbur S. & Mary D. Minigh	1006 / 81	1.08
33	225 / 12.1	Harriet McQuaid	1229 / 155	0.67	73	225 / 69	William N. & John R. Ashcraft	W122 / 231	40.00
34	225 / 12	James & Carol M. Rush	1494 / 654	1.73	74	225 / 74.1	Harley D. & Mary Jo Knight (LE)	1319 / 765	0.71
35	225 / 11.1	James & Carol M. Rush Revocable Living Trust	1536 / 932	84.00	75	225 / 74	Kevin Owens & Kristy D. Sendling	1396 / 687	23.06
36	225 / 10	James Robinson Excavating, Inc.	1044 / 1033	17.50	76	225 / 74.2	James L. Thornhill	1167 / 725	1.11
37	225 / 11.2	Jessica N. Chatham	1568 / 404	10.00	77	225 / 74.3	James L. Thornhill	1167 / 731	10.42
38	225 / 16	James & Carol M. Rush	1763 / 15	11.01	78	245 / 78	Kristy & Kevin Owens	1758 / 912	3.00
39	225 / 11	Jessica N. & Joshua Chatham	1730 / 282	19.53	79	245 / 12	William N. & John R. Ashcraft	W122 / 231	6.12
40	225 / 17	James & Carol M. Rush	1763 / 15	10.75	80	245 / 24	Robert G. & Christine E. Flanigan, et al	W216 / 842	14.77
					81	245 / 26	Robert G. & Christine E. Flanigan, et al	W216 / 842	129.00

FILE NO: 173-36-EO-17

DRAWING NO: Atkinson Unit 1H BHL-MOD 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: September 25 20 25

OPERATOR'S WELL NO: Atkinson Unit 1H

API WELL NO

47-033-06118
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Proposed 1,154.4' WATERSHED: Tenmile Creek QUADRANGLE: Wolf Summit

DISTRICT: Eagle & Sardis

COUNTY: Harrison

SURFACE OWNER: Robert G. & Christine E. Flanigan, et al

ACREAGE: 129.00

ROYALTY OWNER: A.W. & Susan C. Coffman LEASE NO: ACREAGE: 129.00

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL-MOD 7,700' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,800' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street
Denver, CO 80202

ADDRESS: 535 White Oaks Blvd.
Bridgeport, WV 26330

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>AI: A.W. Coffman, et ux Lease</u>			
A.W. Coffman, et ux	Hope Natural Gas	1/8	0143/0420
Hope Natural Gas	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Development Company	Conveyed	1143/0921
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc	Name Change	0058/0366
Dominion Exploration & Production, Inc	Antero Resources Appalachian Corporation	Assignment	1423/1068
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>AG: L.C. Harbert & Sarah J. Harbert, his wife Lease</u>			
L.C. Harbert & Sarah J. Harbert, his wife	Hope Natural Gas	1/8	0143/0335
Hope Natural Gas	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Development Company	Conveyed	1143/0921
CNG Development Company	CNG Producing Company	Name Change	WVSOS
CNG Producing Company	Dominion Exploration & Production, Inc.	Name Change	0058/0366
Dominion Exploration & Production, Inc.	Antero Resources Appalachian Corporation	Assignment	1423/1068
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>AF: Chas W. Murray & Clara I. Murray, h/w Lease</u>			
Chas W. Murray & Clara I. Murray, h/w	Sheridan R. Griffin	1/8	0193/0193
Sheridan R. Griffin	W.R. Truby	Assignment	0207/0471
W.R. Truby	Wheeling Natural Gas Company	Assignment	0210/0063
Wheeling Natural Gas Company	Hope Natural Gas Company	Assignment	0202/0375
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
CNG Transmission Company	Dominion Transmission, Inc.	Name Change	0058/0362
Dominion Transmission, Inc.	CONSOL Energy Holdings LLC XVI	Merger	1458/0299
CONSOL Energy Holdings LLC XVI	Consol Gas Company	Merger	0059/1019
Consol Gas Company	CNX Gas Company LLC	Merger	1472/0294
CNX Gas Company LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>AE: A.L. McQuaid & Harriet M. McQuaid, his wife Lease</u>			
A.L. McQuaid & Harriet M. McQuaid, his wife	Exploration Partners, LLC	1/8	1283/0740
Exploration Partners, LLC	Linn Energy Holdings, LLC	Assignment	1413/0652
Linn Energy Holdings, LLC	XTO Energy, Inc.	Assignment	1419/0959
XTO Energy, Inc.	Antero Resources Appalachian Corporation	Assignment	1478/1215
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>AD: Rodger Scott Byrd Lease</u>			
Rodger Scott Byrd	Antero Resources Corporation	1/8+	1801/0554

11/14/2025

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
AC: Lillie B. Fortney & Jacob D. Fortney Lease			
Lillie B. Fortney & Jacob D. Fortney	Philadelphia Company of West Virginia	1/8	0196/0421
Philadelphia Company of West Virginia	Pittsburgh & West Virginia Company	Assignment	0236/0111
Pittsburgh & West Virginia Company	Equitable Gas Company	Assignment	0715/0048
Equitable Gas Company	Equitrans, Inc.	Assignment	1189/0619
Equitrans, Inc.	Equitrans, LP	Assignment	1524/1082
Equitrans, LP	Equitable Production-Eastern States Oil & Gas Inc.	Assignment	1342/1028
Equitable Production-Eastern States Oil & Gas Inc.	EQT Production Company	Name Change Assignment	0059/0854 Pooled Tract
EQT Production Company	Antero Resources Corporation		
Y: Sophronia Lang, a single woman Lease			
Sophronia Lang, a single woman	Hope Natural Gas Company	1/8	0176/0220
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
CNG Transmission Company	Dominion Transmission, Inc.	Name Change	0058/0362
Dominion Transmission, Inc.	CONSOL Energy Holdings LLC VI	Merger	0036/0913
CONSOL Energy Holdings LLC VI	Consol Gas Company	Merger	0059/1019
Consol Gas Company	CNX Gas Company LLC	Merger	1472/0294
CNX Gas Company LLC	Antero Resources Appalachian Corporation	Assignment	1479/0294
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
X: AMP IV, LP Lease			
AMP IV, LP	Antero Resources Corporation	1/8+	1806/0059
W: Frank Oren Cunningham Lease			
Frank Oren Cunningham	Antero Resources Corporation	1/8	Pooled Tract
V: CSX Transportation, Inc. Lease			
CSX Transportation, Inc.	Antero Resources Corporation	1/8	1806/0077
U: James Deniers Fontanez Lease			
James Deniers Fontanez	Antero Resources Corporation	1/8	Pooled Tract
T: Erma Rogers, et al Lease			
Erma Rogers, et al	W.B. Berry	1/8	1056/0882
W.B. Berry	J&J Enterprises	Assignment	1066/0122
J&J Enterprises	Eastern American Energy Corporation	Assignment	1200/1110
Eastern American Energy Corporation	UMC Petroleum Corporation	Assignment	1226/1020
UMC Petroleum Corporation	Ashland Exploration Inc.	Assignment	1263/0494
Ashland Exploration Inc.	Blazer Energy Corporation	Assignment	1294/0299
Blazer Energy Corporation	Eastern States Oil & Gas Inc.	Name Change	0058/0093
Eastern States Oil & Gas Inc.	Equitable Production-Eastern States Oil & Gas Inc.	Name Change	0059/0854
Equitable Production-Eastern States Oil & Gas Inc.	Equitable Production Company	Name Change	0059/0854
Equitable Production Company	Antero Resources Corporation	Name Change	0059/0854

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
S: Erma Rogers, et al Lease Erma Rogers, et al W.B. Berry J&J Enterprises Eastern American Energy Corporation UMC Petroleum Corporation Ashland Exploration Inc. Blazer Energy Corporation Eastern States Oil & Gas Inc. Equitable Production-Eastern States Oil & Gas Inc. Equitable Production Company	W.B. Berry J&J Enterprises Eastern American Energy Corporation UMC Petroleum Corporation Ashland Exploration Inc. Blazer Energy Corporation Eastern States Oil & Gas Inc. Equitable Production-Eastern States Oil & Gas Inc. Equitable Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Name Change Name Change Name Change Name Change	1056/0882 1066/0122 1200/1110 1226/1020 1263/0494 1294/0299 0058/0093 0059/0854 0059/0854 0059/0854
R: Erma Rogers, et al Lease Erma Rogers, et al W.B. Berry J&J Enterprises Eastern American Energy Corporation UMC Petroleum Corporation Ashland Exploration Inc. Blazer Energy Corporation Eastern States Oil & Gas Inc. Equitable Production-Eastern States Oil & Gas Inc. Equitable Production Company	W.B. Berry J&J Enterprises Eastern American Energy Corporation UMC Petroleum Corporation Ashland Exploration Inc. Blazer Energy Corporation Eastern States Oil & Gas Inc. Equitable Production-Eastern States Oil & Gas Inc. Equitable Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Name Change Name Change Name Change Name Change	1056/0882 1066/0122 1200/1110 1226/1020 1263/0494 1294/0299 0058/0093 0059/0854 0059/0854 0059/0854
N: WVTI, LLC Lease WVTI, LLC	Antero Resources Corporation	1/8	Pooled Tract
M: Patrick Cunningham & Frank Cunningham Lease Patrick Cunningham & Frank Cunningham R & K Oil & Gas, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. Antero Exchange Properties, Inc.	R & K Oil & Gas, Inc. Chesapeake Appalachia, LLC Statoil USA Onshore Properties, Inc. Antero Exchange Properties, Inc. Antero Resources Corporation	1/8 Assignment Assignment Assignment Merge	1371/1142 1446/0989 1454/0937 1581/0001 0059/1247
K: Neal B. Swiger, et al Lease Neal B. Swiger, et al James F. Scott EMAX Oil Company Cabot Oil & Gas Corporation Enervest Appalachia, LP Statoil USA Onshore Properties, Inc. EQT Production Company	James F. Scott EMAX Oil Company Cabot Oil & Gas Corporation Enervest Appalachia, LP Statoil USA Onshore Properties, Inc. EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment	1132/0130 1206/1114 1244/0736 1314/1012 15410/523 1578/0134 Pooled Tract
J: M.E.R. Royalties, LLC Lease M.E.R. Royalties, LLC	Antero Resources Corporation	1/8	Pooled Tract

RECEIVED
Office of Oil and Gas
JUL 28 2025
Department of Environmental Protection

11/14/2025

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>H: Fred Rogers & Mae A. Rogers, his wife Lease</u>			
Fred Rogers & Mae A. Rogers	Consolidated Gas Supply Corporation	1/8	1019/0640
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0058/0362
CNG Transmission Corporation	Dominion Transmission Inc.	Name Change	0058/0362
Dominion Transmission Inc.	CONSOL Energy Holdings, LLC, XVI	Assignment	1458/0299
CONSOL Energy Holdings, LLC, XVI	Consol Gas Company	Merge	0059/1019
Consol Gas Company	CNX Gas Company, LLC	Merge	1472/0294
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914
<u>F: Will E. Morris Heirs Trust Lease</u>			
Will E. Morris Heirs Trust	Antero Resources Corporation	1/8+	1802/0983
<u>D: J.N. Swiger & H.J. Swiger, his wife Lease</u>			
J.N. Swiger and H.J. Swiger, his wife	Hope Natural Gas Company	1/8	0176/0216
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Conveyed	0903/0179
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Conveyed	1136/0250
Consolidated Gas Transmission Corporation	CNG Transmission Company	Name Change	0051/0795
CNG Transmission Company	Dominion Transmission Inc.	Name Change	0058/0362
Dominion Transmission Inc.	CONSOL Energy Holdings LLC XVI	Merger	1458/0299
CONSOL Energy Holdings LLC XVI	CNX Gas Company LLC	Merger	0036/0913
CNX Gas Company LLC	Antero Resources Appalachian Corporation	Assignment	1479/0628
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914

RECEIVED
OCT 28 2025
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.

*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.

11/14/2025

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
B: Donley Boggess, et al Lease				
	Donley Boggess, et al	A.L. McQuaid	1/8	1109/0897
	A.L. McQuaid	W.B. Berry	Assignment	1116/0643
	W.B. Berry	Berry Energy Consultants & Managers, Inc.	Assignment	1120/0938
	Berry Energy Consultants & Managers, Inc.	J&J Enterprises, Inc.	Assignment	1120/0941
	J&J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	1200/1110
	Eastern American Energy Corporation	Energy Corporation of America	Merger	0059/0879
	Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	1495/0314
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0002/0914

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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



October 27, 2025

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Taylor Brewer
601 57th Street
Charleston, WV 25304

Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved well on the existing Flanigan Pad: Atkinson Unit 1H (47-033-06118) and Bream Unit 1H (47-033-06119) Expedited.

Attached you will find the following:

- AOR
- Revised Form WW-6B
- Revised Form WW-6A1
- Revised Mylar Plat

Chk # 4046417
10/23/25
\$ 7,500.00
Expedited

If you have any questions please feel free to contact me at (303) 357-6959.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "S Gaspar", written over a horizontal line.

Stefan Gaspar
Permitting Agent
Antero Resources Corporation

Enclosures

11/14/2025