

#### 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

Wednesday, November 13, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: P

Permit Modification Approval for Arrow Unit 1H

47-103-03675-00-00

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: Arrow Unit 1H

Farm Name: Antero Midstream, LLC

U.S. WELL NUMBER: 47-103-03675-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/132024

Promoting a healthy environment.

API NO. 47-103	_ 03675	
OPERATOR W	VELL NO.	Arrow Unit 1H MOD
Well Pad Na	me: Lincoln	Pad

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

1) Well Operator:	Antero Reso	ources Cor	poral 4945	07062	103 - Wetze	Green	Pine Grove 7.5'
e A de servició Persona				rator ID	County	District	Quadrangle
2) Operator's Wel	l Number: Arr	ow Unit 1H	MOD	_ Well Pac	d Name: Linco	oln Pad	
3) Farm Name/Su	rface Owner:	Antero Mids	tream, LLC	Public Roa	ad Access: Fur	bee Ridge	Road
4) Elevation, curre	ent ground:	1290'	Elevation	n, proposed	post-construct	ion: 1260'	
5) Well Type (a	) Gas X	0	il	Und	erground Stora	ge	
0	ther						
(t	<b>**********</b>	llow X		Deep			
		izontal X		-			
6) Existing Pad: Y					-		
<ol><li>Proposed Target Marcellus Shale</li></ol>					-		
8) Proposed Total	Vertical Dept	h: 7600' T	/D				
9) Formation at T	otal Vertical D	epth: Mare	cellus				
10) Proposed Tota	al Measured D	epth: 1860	00' MD				
11) Proposed Hor	izontal Leg Le	ngth: 8692	2' *Open t	to modifica	tion at a later	date	
12) Approximate							
13) Method to De	termine Fresh	Water Depti	ns: 47103034	090000 Offset we	ell records. Depths hav	ve been adjusted	according to surface elevation
14) Approximate	Saltwater Dep	ths: 2308'					
15) Approximate	Coal Seam De	pths: 1003					
16) Approximate	Depth to Possi	ble Void (co	oal mine, ka	rst, other):	None Anticipa	ated	
17) Does Propose directly overlying				Yes	Ne	o <u>X</u>	
(a) If Yes, provi	de Mine Info:	Name:		RECEIVED	Gas		
		Depth:	Office				
		Seam:	N	OV 08 20	124		
		Owner:		√ Departmer	11 01		
			Envir	onmental Pro	otection		

Page 1 of 3
11/15/2024

API NO. 47- 103 \_ 03675

OPERATOR WELL NO. Arrow Unit 1H MOD
Well Pad Name: Lincoln Pad

18)

# CASING AND TUBING PROGRAM

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
20"	New	J-55	94#	100'	100'	CTS, 96 Cu. Ft.
13-3/8"	New	J-55	54.5#	437'	437'	CTS, 455 Cu. Ft.
9-5/8"	New	J-55	36#	3100'	3100'	CTS, 1262 Cu. Ft.
5-1/2"	New	P110-ICY	23#	18600'	18600'	CTS, 3759 Cu. Ft.
2-3/8"	New	N-80	4.7#			
	(in) 20" 13-3/8" 9-5/8" 5-1/2"	Or Used   Or Used	Size (in)         or Used         Grade           20"         New         J-55           13-3/8"         New         J-55           9-5/8"         New         J-55           5-1/2"         New         P110-ICY	Size (in)         or Used         Grade (lb/ft)         weight per fit.           20"         New         J-55         94#           13-3/8"         New         J-55         54.5#           9-5/8"         New         J-55         36#           5-1/2"         New         P110-ICY         23#	Size (in)         or Used         Grade (lb/ft)         Weight per it. (lb/ft)         Prod Ade. For Drilling (ft)           20"         New         J-55         94#         100'           13-3/8"         New         J-55         54.5#         437'           9-5/8"         New         J-55         36#         3100'           5-1/2"         New         P110-ICY         23#         18600'	Size (in)         or Used         Grade (lb/ft)         Weight per ft. (lb/ft)         FOOTAGE: For Drilling (ft)         Left in Well (ft)           20"         New         J-55         94#         100'         100'           13-3/8"         New         J-55         54.5#         437'         437'           9-5/8"         New         J-55         36#         3100'         3100'           5-1/2"         New         P110-ICY         23#         18600'         18600'

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							

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Office of Oil and Gas

**PACKERS** 

	THORES.	NOV 0 8 2024
Kind:	N/A	WV Department of
Sizes:	N/A	Environmental Protection
Depths Set:	N/A	

Page 2 of 3 11/1/5/12/02/4

API NO. 47- 103 - 03675

OPERATOR WELL NO. Arrow 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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Office of Oil and Con

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

Environmental Protection

WV Department of

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:

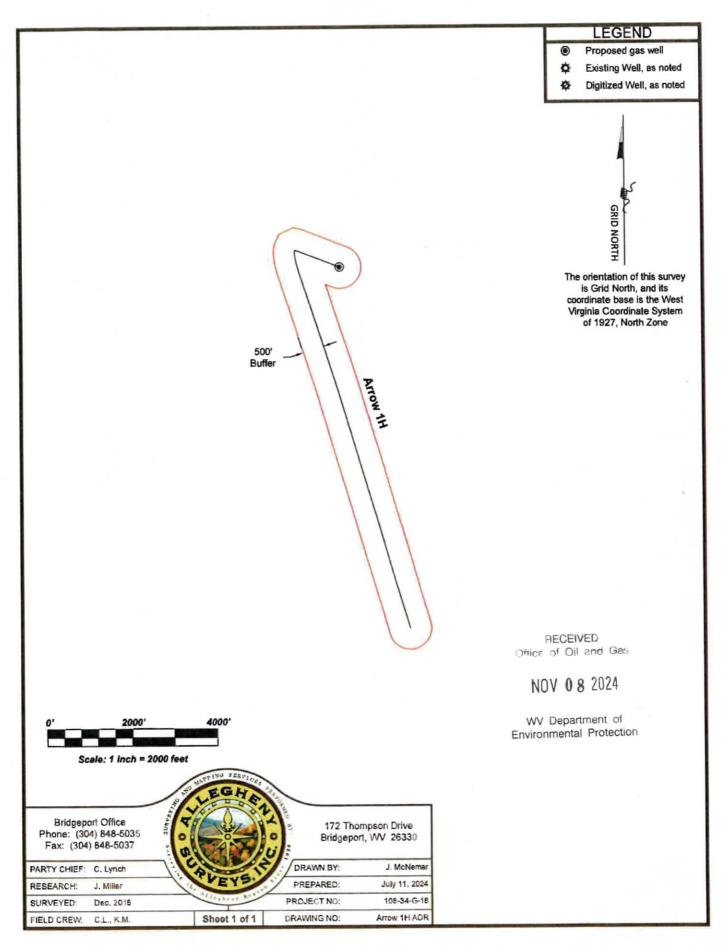
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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.



# 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
D: 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
EQ1 Floudction company	DECEIVED		
C. Acconolic Inc. Losco	Office of Oil and	GAS	
C: Acropolis, Inc. Lease	Antero Resources Corporation	1/8+	326A/0586
Acropolis, Inc.			
	NOV 08 2	024	
E: Nancy K. Sayre Lease		1/8+	200A/0927
Nancy K. Sayre	Antero Resources Corporation		2007/0327
	WV Departme	ent of	
F: Patricia Lou Scheper Lease	Antero Resources Corporation Environmental P	rotection 1/8+	360A/0103
Patricia Lou Scheper	Antero Resources Corporation Environment	1/0+	300Ay 0103
G: A.J. McHenry & Maggie McHenry Lease		500	
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 and Dorothy Louise Perkins	Assignment	055A/0062
Carl D. Perkins and Dorothy Louise Perkins	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
<b>EQT Production Company</b>	Antero Resources Corporation	Assignment	296A/0432
H: J.W. Haught & A.B. Haught Lease			
J.W. Haught, et ux			
Tri State Gas Company	Tri State Gas Company	1/8	
The Manufacturers Light and Heat Company	The Manufacturers Light and Heat Company	Assignment	0107/0340
Hundred Gas Company	Hundred Gas Company	Assignment	009A/0141
Carl D. Perkins and Dorothy Louise Perkins	Carl D. Perkins and Dorothy Louise Perkins	Assignment	048A/0109
Perkins Oil and Gas Inc.	Perkins Oil and Gas Inc.	Assignment	055A/0062
	Stone Energy Corporation	Assignment	075A/0621
Stone Energy Corporation EQT Production	EQT Production	Assignment	126A/0658
EQT Floudction	Antero Resources Corporation	Assignment	183A/0305
	Antero Resources corporation		230A/0783

Arrow Unit 1H MOD

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
I: S.J. Straight & S.F. Straight Lease			
S.J. Straight & S.F. Straight	Wheeling National Gas Company	1/8	0074/0611
Wheeling National Gas Company	The Manufacturers Light & Heat Company	Assignment	0080/0050
The Manufacturers Light & Heat Company	Hundred Gas Company	Assignment	0167/0423
Hundred Gas Company	Carl D. Perkins and Dorothy Louise Perkins	Assignment	0201/0316
Carl D. Perkins and Dorothy Louise Perkins	Perkins Oil & Gas Inc.	Assignment	0225/0574
Perkins Oil & Gas Inc.	Stone Energy Corporation	Assignment	0390/0066
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
<b>EQT Production Company</b>	Antero Resources Corporation	Assignment	0662/0686
J: AMP V, LP Lease			
AMP V, LP	Antero Resources Corporation	1/8+	0295/0642

Office of Oil and Gas

NOV 08 2024

WV Department of Environmental Protection

\*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.

<sup>\*</sup>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.

WW-6A1 (5/13)

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
K: AMP V, LP Lease				
	AMP V, LP	Antero Resources Corporation	1/8+	0295/0642
				RECEIVED Office of Oil and Gas
	rces Corporation include 100% rights to extract d any other formations completed with this well			NOV 08 2024
*Co-tenancy utilization - Antero is utilizing the	Co-tenancy Modernization and Majority Protection Act to pr	oceand with the development of certain royalty owners' interests in	n this tract.	WV Department of Environmental Protection
**Pooling/Unitization - Antero has filed a horte	ontal well unitization application with the West Virginia Oil an	nd Gas Conservation Commission that seeks to pool certain owner	in this tract.	

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

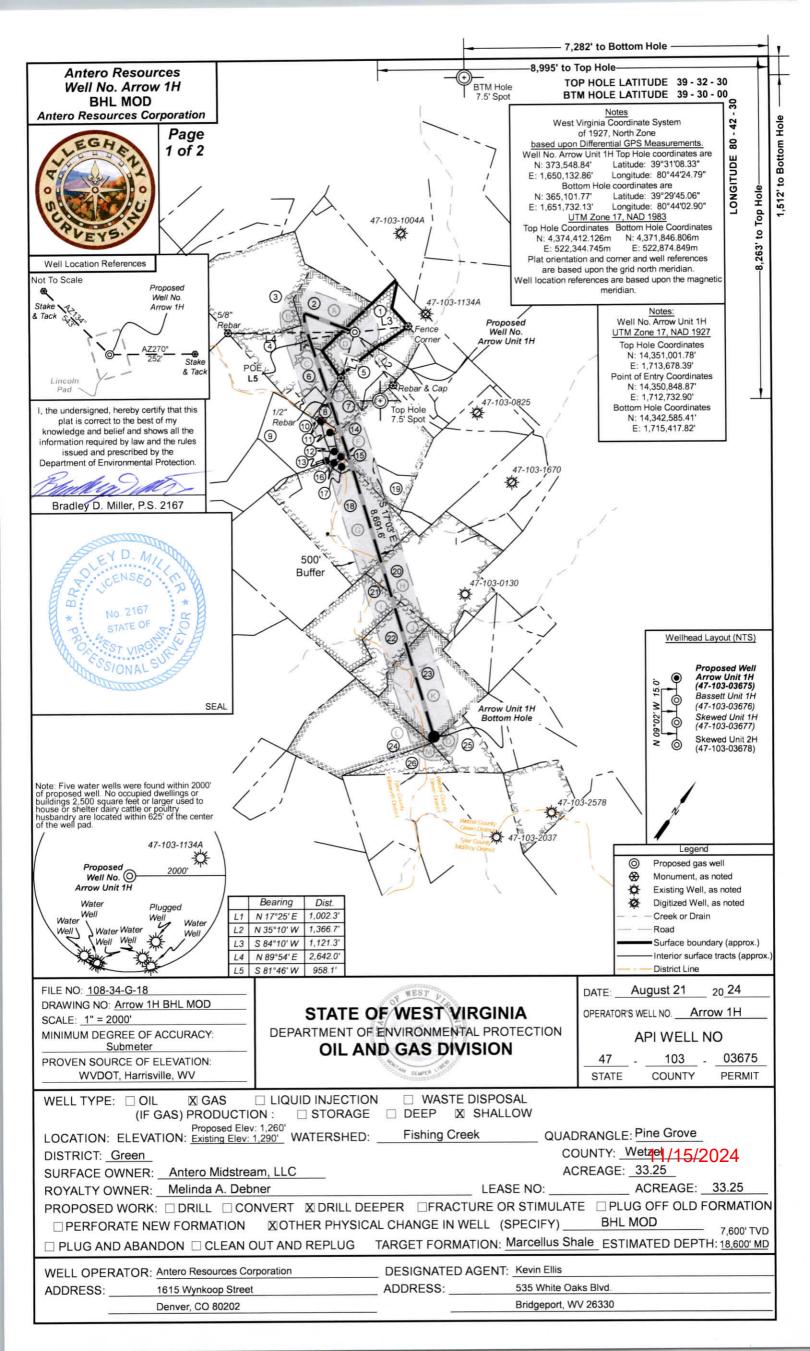
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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

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.

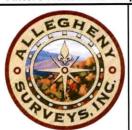
Well Operator:	Antero Resource	s Corporation
By:	Tim Rady	an Verla
Its:	Senior Vice Pres	ident of Land

Page 1 of 1



### Antero Resources Well No. Arrow 1H BHL MOD

Antero Resources Corporation



Page 2 of 2

	Leases
Α	J.L. Lancaster
В	Suzann Marie Stoehr
С	Acropolis, Inc.
D	Melinda A. Debner
Е	Nancy K. Sayre
F	Patricia Lou Scheper
G	A.J. McHenry & Maggie McHenry
Н	J.W. Haught & A.B. Haught
1	S.J. Straight & S.F. Straight
J	AMP V, LP
K	AMP V, LP
L	Riverwood Resources, LLC
М	Barbara V. Kittle
N	Blackrock Enterprises, LLC
0	Dominic J. Kowalski, et ux

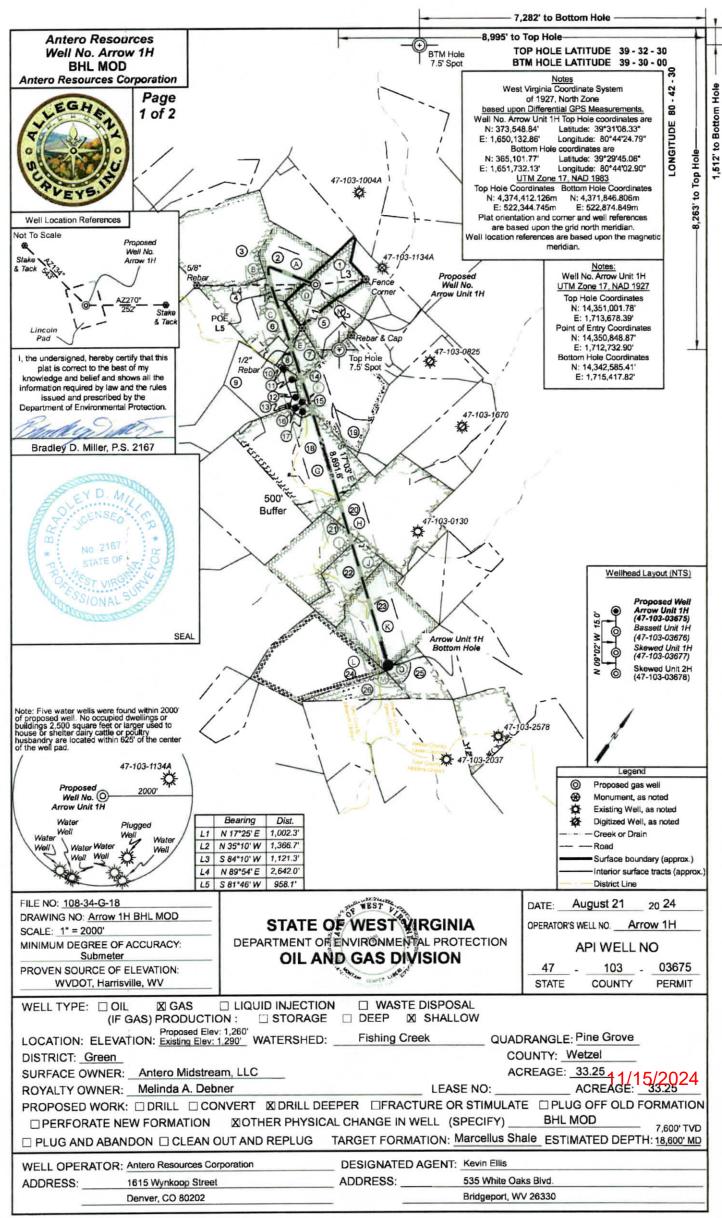
ID	TM-Par	Owner	Bk/Pg	Acres
1	20-23	Antero Midstream, LLC	465/156	33.30
2	19-49	Antero Midstream, LLC	465/156	32.30
3	19-47	William & Suzann Stoehr Family Trust	499/799	80.00
4	19-50	Ronald H. Eastham, et al	451/110	40.00
5	20-29	Antero Midstream, LLC	465/153	20.90
6	19-50.1	Phillip D. Haught, et al	499/173	4.75
7	22-1	Antero Midstream, LLC	465/156	8.61
8	22-1.1	Michael L. & Teresa L. Bassett	465/156	3.77
9	18-2	Antero Midstream, LLC	647/742	34.36
10	22-38	Michael L. & Teresa L. Bassett	344/242	0.48
11	18-3.1	Michael L. & Teresa L. Bassett	378/575	2.15
12	18-3	Gary Fred & Sharon Haught	265/64	1.01
13	19-50.3	David Bowyer	441/580	0.25
14	22-41	Robert L. Jr. & Donna K. Jones	462/717	71.29
15	22-6.1	Ancient Energy, LTD	441/591	0.04
16	22-10	Gary Fred & Sharon Haught	319/32	0.30
17	22-11.1	Gary Fred & Sharon Haught	319/32	2.00
18	18-9	Courtney N. Vancamp	638/148	86.50
19	22-12	Robert L. Jr. & Donna K. Jones	297/500	10.80
20	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
21	18-5	Dena S. Straight & Vicki L. Glasscock	OR172/546	50.13
22	18-6	Eric D. Beatty & Jack Gordon Straight	651/575	31.96
23	18-7	Thomas Straight, et al	270/558	68.00
24	24-1	Michael Luke & Teresa Lynn Bassett	580/59	75.10
25	25-1	Dominic Joseph & Delmer Michele Kowalski	353/533	60.00
26	24-2	Hornet Midstream Pipeline, LLC	543/702	17.25

FILE NO: 108-34-G-18	
DRAWING NO: Arrow 1H BHL MOD	
SCALE: 1" = 2000'	
MINIMUM DEGREE OF ACCURACY: Submeter	
PROVEN SOURCE OF ELEVATION:	

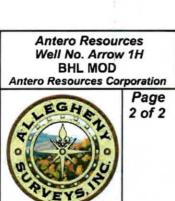
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE:	August 2	1 2	20 24
OPERATOR	S WELL NO	Arro	w 1H
	API WE	LL N	0
47	- 10	3 -	03675
		-	

WVDOT, Harrisville, WV	And SEMPER	LUB BOOK	STATE COUNTY	PERMIT	
WELL TYPE: □ OIL   ☑ GAS □ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION : □ STORAGE □ DEEP ☑ SHALLOW					
Proposed Elev LOCATION: ELEVATION: Existing Elev:	: 1,260' 1,290' WATERSHED: Fishin	ng Creek QUAD	RANGLE: Pine Grove	_	
DISTRICT: Green		CC	OUNTY: Wetzel / 15/	2024	
SURFACE OWNER: Antero Minerals	SURFACE OWNER: Antero Minerals, LLC ACREAGE: 33.25				
ROYALTY OWNER: Melinda A. Debi	ner	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: 18,600' MD					
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis					
ADDRESS: 1615 Wynkoop Street	ADDRES	SS: 535 White Oa	ks Blvd.		
Denver, CO 80202		Bridgeport, W	V 26330		







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26	24-2	Hornet Midstream Pipeline, LLC	543/702	17.25

FILE NO: 108-34-G-18  DRAWING NO: Arrow 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. Arrow 1H  API WELL NO  47 - 103 - 03675  STATE COUNTY PERMIT
(IF GAS) PRODUCTION Proposed Elev Proposed Elev Existing Elev:  DISTRICT: Green SURFACE OWNER: Antero Minerals ROYALTY OWNER: Melinda A. Deb PROPOSED WORK: DRILL CO	7: 1,260' 1,290' WATERSHED: Fishing Creek QUA C S, LLC A	OUNTY: Wetzel  CREAGE: 33.25 1 1/15/2024  ACREAGE: 33.25  TE  PLUG OFF OLD FORMATION  BHL MOD 7.600' TVD
WELL OPERATOR: Antero Resources Co ADDRESS: 1615 Wynkoop Street Denver, CO 80202		