

## 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, January 8, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit Modification Approval for Midas 1H

47-103-03612-00-00

Lateral Extension

## 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: Midas 1H Farm Name: Kenneth E & Vicky A VanDyne

U.S. WELL NUMBER: 47-103-03612-00-00

Horizontal 6A New Drill

Date Modification Issued: 01/08/2024

Promoting a healthy environment.

AP	NO. 47- 103	0	3612		
	<b>OPERATOR</b>	WELL	NO.	Midas Unit 1H MOD	/
	Well Pad N				

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

1) Well Operat	or: Antero	Resources	Corporal	494507062	103 - Wetze	Green	Pine Grove 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	r: Midas Uni	t 1H MOI	Well Pa	d Name: Ceda	r Pad	
3) Farm Name/	Surface Ow	ner: Kenneth E	& Vicky A. V	andyne Public Ro	ad Access: CR	52	
4) Elevation, co	urrent groun	d:	Ele	evation, proposed	post-constructi	on: 1248'	
5) Well Type	(a) Gas	X	Oil	Und	erground Storag	ge	
	Other						
	(b)If Gas	Shallow	X	Deep		Maria Maria Maria	
		Horizontal	X	-			
6) Existing Pad	: Yes or No	No					
7) Proposed Ta	rget Formati	ion(s), Depth	(s), Antici	pated Thickness	and Expected Pr	ressure(s):	
Marcellus Sh	ale: 7600' T\	/D, Anticipate	d Thicknes	ss- 55 feet, Associ	ated Pressure- 2	850#	
8) Proposed To	tal Vertical	Depth: 7600	D' TVD				
9) Formation at	Total Vertice	cal Depth:	/larcellus	/			
10) Proposed T	otal Measure	ed Depth:	31700' ME	) /			
11) Proposed H	lorizontal Le	g Length:	21344.6'	1			
12) Approxima	te Fresh Wa	ter Strata Dej	oths:	612' /			
13) Method to I	Determine F	resh Water D	epths: 4	7103308970000 Offset we	ll records. Depths have	been adjusted a	ccording to surface elevations.
14) Approxima	te Saltwater	Depths: 21	93' /				
15) Approxima	te Coal Sean	n Depths: 10	)10'				
16) Approxima	te Depth to F	Possible Voic	(coal mir	ne, karst, other):	None Anticipat	ed	
17) Does Propo	sed well loca	ation contain	coal seam	ns			
directly overlying				Yes	No	X	
(a) If Yes, pro	vide Mine Ir	nfo: Name:			EIVED Oil and Gas		
		Depth:		IANIO	8 2024		
		Seam:			COCY		
OV # 400	26586	Owner		WV Dep Environmen	artment of tal Protection		
CK # 400	75001	.73	-		*****		
	12/14/20						

Page 1 of 3

OPERATOR WELL NO. Midas Unit 1H MOD
Well Pad Name: Cedar Pad

18)

## **CASING AND TUBING PROGRAM**

ТҮРЕ	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#	662'	662'	CTS, 690 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	3450'	3450'	CTS, 1405 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P110-ICY	23#	31700'	31700' /	CTS, 7060 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							1.10
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			1.0
Liners				,			

## **PACKERS**

Kind:	N/A	
Sizes:	N/A	RECEIVED Office of Oil and Gas
Depths Set:	N/A	JAN 0 8 21124

WV Department of Environmental Protection

Page 2 of 3

OPERATOR WELL NO. Midas Unit 1H MOD
Well Pad Name: Cedar 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): 71.85 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 18.45 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 nump high viscosity sweep, trip to base of cur

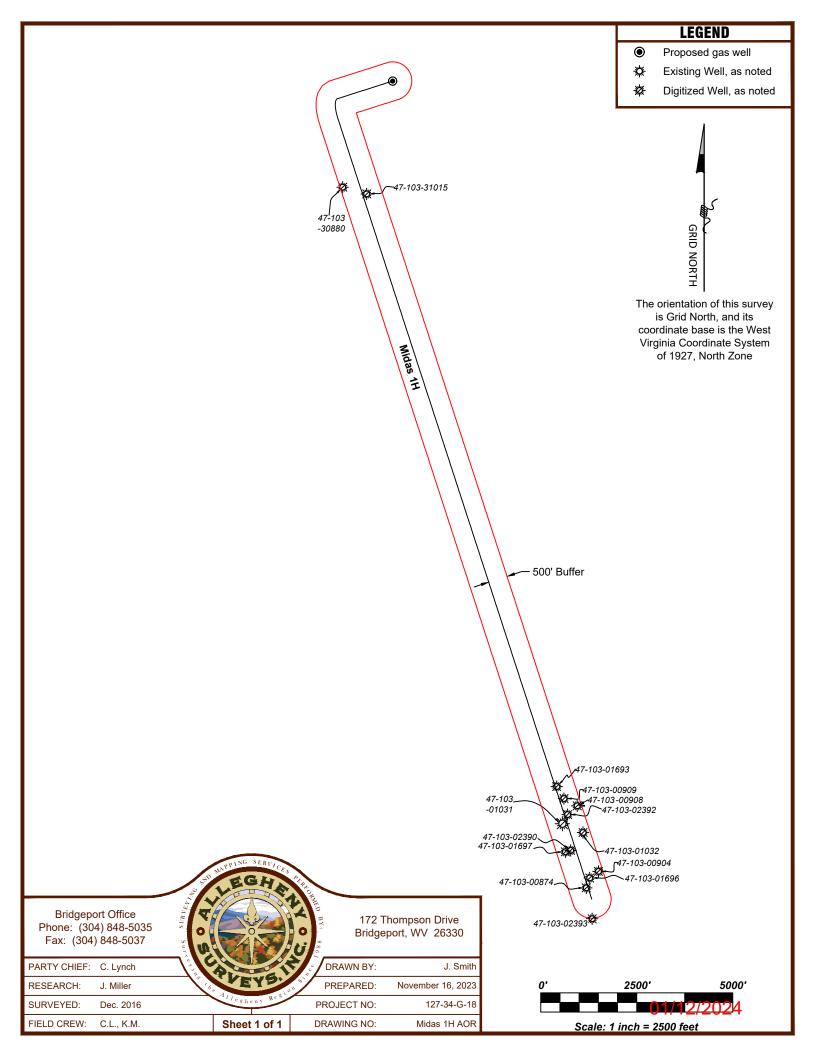
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls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

\*Note: Attach additional sheets as needed.

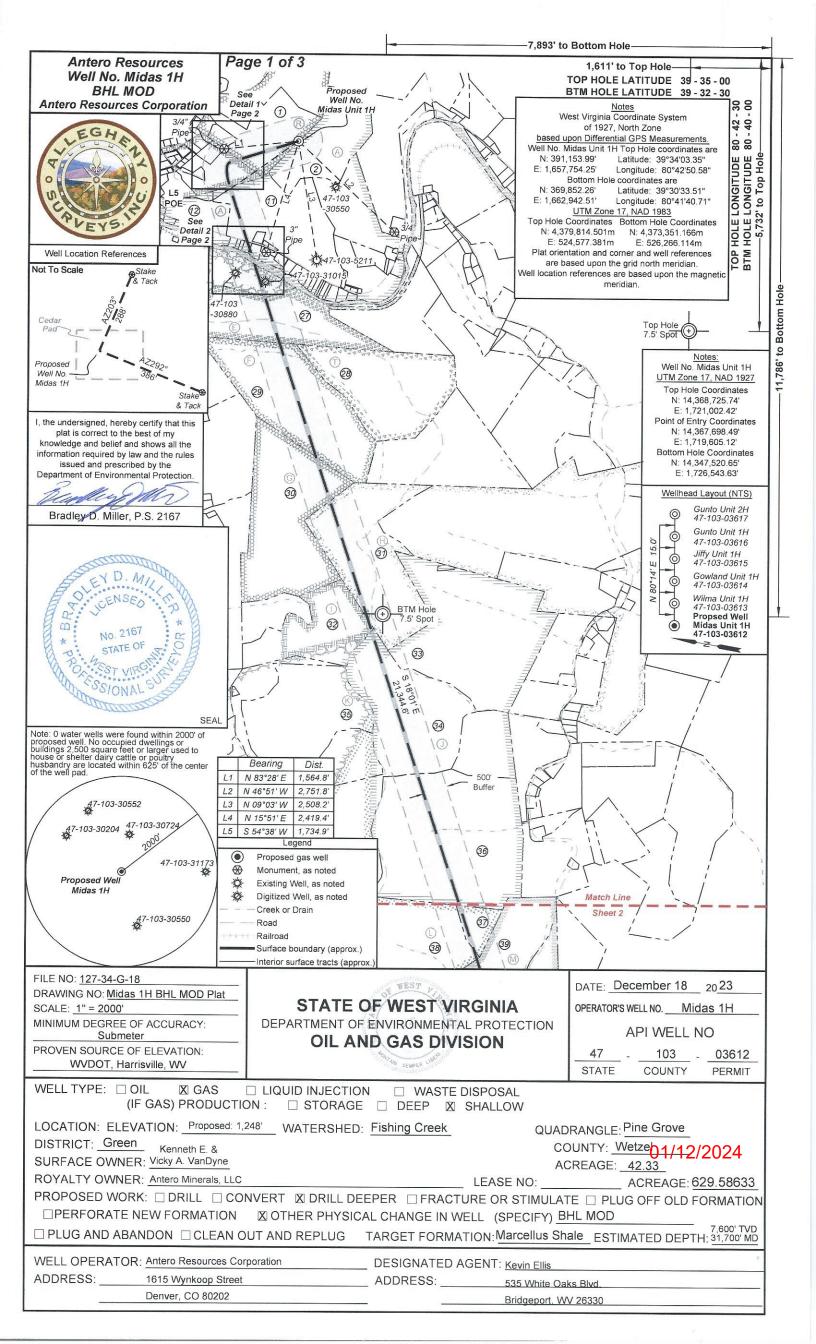
RECEIVED
Office of Oil and Gas

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WV Department of Environmental Protection Page 3 of 3

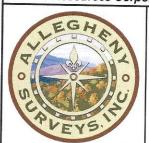


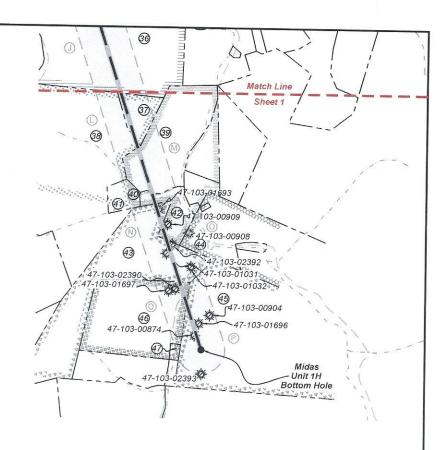
UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103310150000	H S STRAIGHT 1	2369	MANUFACT LIGHT &HEAT	MANUFACT LIGHT &HEAT	2,549		Gordon	Weir, Benson, Alexander
47103308800000	C A LONG	5442	HOPE NATURAL GAS	HOPE NATURAL GAS	2,805		Big Injun, Gordon Stray	Weir, Benson, Alexander
47103016930000	ICE PATRICK & LORI I	F-29	PENNZOIL PRODUCNG CO	PENNZOIL PRODUCNG CO	2,925		Gordon	Weir, Benson, Alexander
47103009090000	L J FLUHARTY	1	EAST RESOURCES	PENNZOIL CO INC	2,801		Gordon, Big Injun, Gordon Stray	Weir, Benson, Alexander
47103023920000	WRIGHT RACHEL	8	TRIBUNE RESOURCES LLC	EAST RESOURCES	3,110	2851 - 2870	Gordon	Weir, Benson, Alexander
47103010310000	MILLER ISRAEL	1	TRIBUNE RESOURCES LLC	Penzoil Co Inc	2,801			Weir, Benson, Alexander
47103023900000	MILLER ELIZABETH	6	TRIBUNE RESOURCES LLC	EAST RESOURCES	2,900	2627 - 2641	Gordon	Weir, Benson, Alexander
47103016970000	ELIZ MILLER	2	PENNZOIL PRODUCNG CO	Penzoil Co Inc			Sweickley Coal, Pitts Coal, Up Freeport Coal, Lo Coal, Mid Kittanning Coal	Weir, Benson, Alexander
47103010320000	ISRAEL MILLER	3	TRIBUNE RESOURCES LLC	SOUTH PENN OIL	2,640			
47103009040000	A R MCHENRY	6	TRIBUNE RESOURCES LLC	PENNZOIL CO INC	3,092		Gordon	Weir, Benson, Alexander
47103016960000			PENNZOIL PRODUCTS CO	PENNZOIL PRODUCTS CO	3,052			
47103008740000	COASTAL LBR/MCCOY H	6	PENNZOIL CO INC	PENNZOIL CO INC	3,057			
47103023930000	MCCOY HEIRS	14	EAST RESOURCES	EAST RESOURCES	3,170	2896 - 2910	Gordon	Weir, Benson, Alexander
47103009080000	RACHAEL WRIGHT	6	SOUTH PENN OIL	SOUTH PENN OIL	2,563			

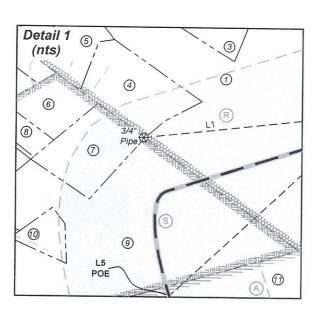


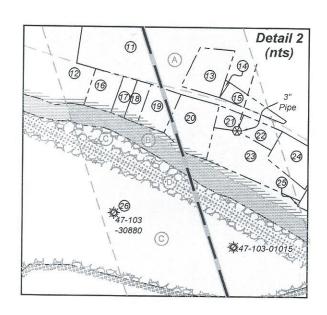
Antero Resources Well No. Midas 1H BHL MOD Antero Resources Corporation











FILE NO: 127-34-G-18

DRAWING NO: Midas 1H BHL MOD 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

WEST

DATE: \_\_December 18 \_\_ 20 23

OPERATOR'S WELL NO. \_\_\_\_Midas 1H

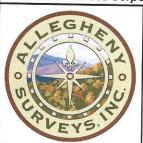
API WELL NO

\_\_\_\_47 \_\_ - \_\_\_103 \_\_ - \_\_\_03612

STATE COUNTY PERMIT

		STATE COUNTY PERIVIT
WELL TYPE: □ OIL		
LOCATION: ELEVATION: Proposed: 1,248' WATERSHED		DRANGLE: Pine Grove
DISTRICT: Green Kenneth E. &	C	OUNTY: Wetzel 01/12/2024
SURFACE OWNER: Vicky A. VanDyne	Д	CREAGE: 42.33
ROYALTY OWNER: Antero Minerals, LLC		ACREAGE: 629.58633
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL D	EEPER	TE DILIG OFF OLD FORMATION
□PERFORATE NEW FORMATION   ☑ OTHER PHYSIC	CAL CHANGE IN WELL (SPECIFY)	BHL MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus S	hale_ESTIMATED DEPTH: 7,600' TVD
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT: Kevin Ellis	
ADDRESS: 1615 Wynkoop Street	ADDRESS:535 White O	aks Blvd
Denver, CO 80202	Bridgeport, V	

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



	Leases
Α	Jenkins Miller
В	WVDNR
С	Marcella K. Harrison
D	CSX Transportation, Inc.
Ε	Tribune Resources Minerals, LLC
F	Shiben Estates Inc.
G	Tribune Resources Minerals, LLC
Н	Thomas Cunningham, et ux
1	Tribune Resources Minerals, LLC
J	Shiben Estates Inc.
K	Tribune Resources Minerals, LLC
L	Josephine Brast, et al
M	Louisa J. Fluharty
Ν	Israel Miller, et ux
0	Rachel Wright, et al
Р	John R. McCoy, et al
Q	Israel Miller, et al
R	Antero Minerals, LLC
S	Antero Minerals, LLC
Т	Jeffrey T. Hayes

ID	TM-Par	Owner	Bk/Pg	Acre
1	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
2	14-19	Dallison Lumber Company	357/267	51.50
3	13-34	Kenneth E. & Vicky A. VanDyne	357/204	14.50
4	13-39	Ruth E. Staley	256/283	3.12
5	13-38	Francis E. Bland	WB57/273	
6	13-37	Debra Ann Hengee, et al	398/447	2.00
7	13-54.2	Ronald M. & Pamela Ann Jackson	315/524	3.35
8	13-37.1	Jeffrey D. Brown	394/491	1.00
9	13-54	Loraine Highley	WB81/258	1100
10	13-54.1	Michelle M. Thomas	428/641	1.00
11	13-83	Emma Virginia Miller	133/455	58.00
12	13-65	Raye Anne Lloyd	445/660	18.01
13	13-76	Edward G. Stewart	317/678	1.30
14	13-75	Edward G. Stewart	317/678	0.03
15	13-77	Gilbert H. Miller	WB32/145	
16	13-65.3	David Pigott	416/367	0.76
17	13-65.5	David Pigott	416/367	0.38
18	13-65.2	Rhonda Pigott	384/200	0.38
19	13-65.1	Michael Cronin	442/778	0.79
20	13-79	Theodore L. Sawyer, Jr.	423/866	1.40
21	13-80	Nathaniel L. & Lisa D. Yoho	402/4	0.33
22	13-81.1	Nathaniel L. & Lisa D. Yoho	402/4	0.48
23	13-81.4	First Baptist Church of Pine Grove	431/168	1.94
24	13-81.3	First Baptist Church of Pine Grove	431/168	1.05
25	13-89	First Baptist Church of Pine Grove	352/533	1.18
26	13-78	Sebastian, Jr. & Marcella Harrison	281/94	25.37
27	17-5	Coastal Forest Resources	444/105	90.00
28	17-21	Pauline E. Hayes	420/626	83.30
29	17-20	Heartland Forest Land Fund VII LP	431/936	123.50
30	17-31	Heartland Forest Land Fund VII LP	431/936	120.33
31	17-40	Heartland Forest Land Fund VII LP	431/936	120.00
32	17-50	EIP III, West Virginia LLC	463/193	69.00
33	17-51	Linda K. Ice & Harry G. Whitcherman Jr.	WB66/545	
34	20-46	Sara Ruth Cool & Peggy Ann Dawson Supplemental Needs Trust	471/207	107.1
35	20-14.4	Matthew D. Bassett, et al	421/365	97.18
36	20-15	Coastal Forest Resources Co.	444/105	198.00
37	20-22	Coastal Forest Resources Co.	444/105	12.20
38	20-37	Coastal Forest Resources Co.	444/105	246.84
39	21-15	Douglas & Debra Williams	385/159	57.06
40	20-49	Douglas & Debra Williams	472/115	2.00
41	20-37.1	Douglas & Debra Williams	472/115	6.26
42	21-15.1	Debra Williams	398/447	2.00
43	23-1	Susan Henderson	417/744	100.00
44	21-21	Santford Joe Haught	423/709	83.00
45	23-4	Coastal Forest Resources Co.	491/498	154.51
46	23-2	Susan Henderson	417/744	72.00
47	23-7	Coastal Forest Resources Co.	444/105	1.40

FILE NO: <u>127-34-G-18</u>
DRAWING NO: Midas 1H BHL MOD Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter

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

WEST D

DATE: _	ec)	ember 18	3	2023	
OPERATOR	S WE	ELL NO	Vlida	as 1H	
API WELL NO					
47		103	_	03612	
STATE		COUNTY	,	PERMIT	

WVDOT, Harrisville, WV	SEMPER LIBER	<u>47</u> - <u>103</u> - <u>03612</u> STATE COUNTY PERMIT
WELL TYPE: □ OIL	□ LIQUID INJECTION □ WASTE DISPOSAL DN: □ STORAGE □ DEEP ☒ SHALLOW	•
DISTRICT: Green Kenneth E. & SURFACE OWNER: Vicky A. VanDyne ROYALTY OWNER: Antero Minerals, LLC PROPOSED WORK: DRILL CON PERFORATE NEW FORMATION		FY) BHL MOD
WELL OPERATOR: Antero Resources Corp ADDRESS: 1615 Wynkoop Street Denver, CO 80202	poration DESIGNATED AGENT: Kevin ADDRESS: 535 W	

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:

	o oxtraot, produce of market tr	ie oil or gas are as follows:	
Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A: Jenkins Miller Lease Jenkins Miller Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation Eastern States Oil & Gas Inc. Blazer Energy Corp. Eastern States Oil & Gas Inc. Equitable Production — Eastern States Inc. Appalachian Natural Gas Trust EQT Production Company	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corpora Eastern States Oil & Gas Inc. Blazer Energy Corp. Eastern States Oil & Gas Inc. Equitable Production – Eastern States In Appalachian Natural Gas Trust EQT Production Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Merger	107/56 233/387 66A/69 76A/232 12/253 12/259 WVSOS 79A/244 96/505 230A/801
R: Antero Minerals, LLC Lease Antero Minerals, LLC  S: Antero Minerals, LLC Lease Antero Minerals, LLC	Antero Resources Corporation	1/8+	250A/847
Antero Minerais, LLC	Antero Resources Corporation	1/8+	250A/847
A: Jenkins Miller Lease Jenkins Miller Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation Eastern States Oil & Gas Inc. Blazer Energy Corp. Eastern States Oil & Gas Inc. Equitable Production — Eastern States Inc. Appalachian Natural Gas Trust EQT Production Company  B: WYDNR Lease	Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporat Eastern States Oil & Gas Inc. Blazer Energy Corp. Eastern States Oil & Gas Inc. Equitable Production — Eastern States In Appalachian Natural Gas Trust EQT Production Company Antero Resources Corporation	Assignment Merger	107/56 233/387 66A/69 76A/232 12/253 12/259 WVSOS 79A/244 96/505 230A/801
WVDNR	Antero Resources Corporation	1/8+	323A/541
/ C: Marcella K. Harrison Lease Marcella K. Harrison / D: CSX Transportation, Inc. Lease	Antero Resources Corporation	1/8+	274A/761
CSX Transportation, Inc.	Antero Resources Corporation	1/8+	7
/ C: Marcella K. Harrison Lease Marcella K. Harrison	Antero Resources Corporation	RECEIVED 1/8+	275A/895 274A/761
/ E: Tribune Resources Minerals, LLC Lease Tribune Resources Minerals, LLC	Antero Resources Corporation	Office of Oil and Gas	248A/634
/ F: Shiben Estates Inc. Lease Shiben Estates Inc. / G: Tribune Resources Minerals, LLC Lease	Antero Resources Corporation	JAN 0 2 2024 <sup>1/8+</sup> WV Department of 1/8+ Environmental Protection	202A/238
Tribune Resources Minerals, LLC Tribune Resources, LLC	Tribune Resources, LLC Antero Resources Corporation	1/8 Assignment	218A/788 <b>219A/322</b>

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Pag
H: Thomas Cunningham, et ux Lease			
Thomas Cunningham, et ux	L. G. Robinson	1/8	48/569
L. G. Robinson	South Penn Oil Company	Assignment	49/659
South Penn Oil Company	Hope Natural Gas Company	Assignment	9A/230
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	233/387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	66A/69
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	13/151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	76A/232
Eastern States Oil & Gas Inc	Equitable Production-Eastern States Inc	Name Change	13/14
Equitable Production-Eastern States Inc	Equitable Production Company	Merge	13/14
Equitable Production Company	EQT Production Company	Name Change	13/14
<b>EQT Production Company</b>	Antero Resources Corporation	Assignment	230A/801
I: Tribune Resources Minerals, LLC Lease			
Tribune Resources Minerals, LLC	Tribune Resources, LLC	1/8	218A/797
Tribune Resources, LLC	Antero Resources Corporation	Assignment	219A/322
J: Shiben Estates Inc. Lease			
Shiben Estates Inc.	Antero Resources Corporation	1/8+	197A/825
L: Josephine Brast, et al Lease			
Josephine Brast, et al	South Penn Oil Company	1/8	49/591
South Penn Oil Company	Hope Natural Gas Company	Assignment	9A/230
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	233/387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	66A/69
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	13/151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	76A/232
Eastern States Oil & Gas Inc	Equitable Production-Eastern States Inc	Name Change	13/14
Equitable Production-Eastern States Inc	Equitable Production Company	Merge	13/14
Equitable Production Company	EQT Production Company	Name Change	13/14
EQT Production Company	Tribune Resources, LLC	Assignment	179A/653
Tribune Resources, LLC	Antero Resources Corporation	Assignment	219A/322
M: Louisa J. Fluharty Lease			
Louisa J. Fluharty	South Penn Oil Company	1/8	49/44
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Assignment	319/397
Pennzoil Products Company	Pennzoil Exploration & Production Company	Assignment	363/384
Pennzoil Exploration & Production Company	PennzEnergy Exploration & Production Company	Merge	12/177
PennzEnergy Exploration & Production Company	,,,,,,,, .	Merge	12/278
Devon Energy Productions Company LP	East Resources Inc	Assignment	370/580
East Resources Inc	American Energy – Marcellus LLC RECEIVED	Assignment	153A/238
American Energy – Marcellus LLC	Ascent Resources – Marcellus LLC Office of Oil and Gas	Name Change	13/304
Ascent Resources – Marcellus LLC	Tribune Resources LLC	Name Change	13/421
Tribune Resources LLC	Antero Resources Corporation JAN 0 2 2024	Partial Assignment	310A/473

WV Department of Environmental Protection

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
/N: Israel Miller, et ux Lease			
Israel Miller, et ux	South Penn Oil Company	1/8	49/52
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Assignment	319/397
Pennzoil Products Company	Pennzoil Exploration & Production Company	•	363/384
Pennzoil Exploration & Production Company		Assignment	
	PennzEnergy Exploration & Production Company	Merge	12/177
PennzEnergy Exploration & Production Company	Devon Energy Productions Company LP	Merge	12/278
Devon Energy Productions Company LP	East Resources Inc	Assignment	370/580
East Resources Inc	American Energy – Marcellus LLC	Assignment	153A/238
American Energy – Marcellus LLC	Ascent Resources – Marcellus LLC	Name Change	13/304
Ascent Resources – Marcellus LLC	Tribune Resources LLC	Name Change	13/421
Tribune Resources LLC	Antero Resources Corporation	Partial Assignment	310A/473
M: Louisa J. Fluharty Lease			
Louisa J. Fluharty	South Penn Oil Company	1/8	49/44
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Assignment	319/397
Pennzoil Products Company	Pennzoil Exploration & Production Company	Assignment	363/384
Pennzoil Exploration & Production Company	PennzEnergy Exploration & Production Company	Merge	12/177
PennzEnergy Exploration & Production Company	Devon Energy Productions Company LP	Merge	12/278
Devon Energy Productions Company LP	East Resources Inc	Assignment	370/580
East Resources Inc	American Energy – Marcellus LLC	Assignment	153A/238
American Energy – Marcellus LLC	Ascent Resources – Marcellus LLC	Name Change	13/304
Ascent Resources – Marcellus LLC	Tribune Resources LLC	Name Change	13/421
Tribune Resources LLC	Antero Resources Corporation	Partial Assignment	310A/473
Alternal Miller et un Longo			
N: Israel Miller, et ux Lease Israel Miller, et ux	South Dann Oil Company	1/8	40/53
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	South Penn Oil Company		49/52
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company	Assignment	319/397
Pennzoil Products Company	Pennzoil Exploration & Production Company	Assignment	363/384
Pennzoil Exploration & Production Company	PennzEnergy Exploration & Production Company	Merge	12/177
PennzEnergy Exploration & Production Company	Devon Energy Productions Company LP	Merge	12/278
Devon Energy Productions Company LP	East Resources Inc	Assignment	370/580
East Resources Inc	American Energy – Marcellus LLC	Assignment	153A/238
American Energy – Marcellus LLC	Ascent Resources – Marcellus LLC	Name Change	13/304
Ascent Resources – Marcellus LLC	Tribune Resources LLC	Name Change	13/421
Tribune Resources LLC	Antero Resources Corporation RECEIVED Office of Oil and	Gas Partial Assignment	310A/473
Q: Israel Miller, et al Lease	IAN O G OO	10.4	
Israel Miller, et ux	South Penn Oil Company JAN 0 2 20	1/8	49/52
South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
Pennzoil Company	Pennzoil Products Company WV Department	t of Assignment	319/397
Pennzoil Products Company	Pennzoil Exploration & Production Company Mental Prot		363/384
Pennzoil Exploration & Production Company	PennzEnergy Exploration & Production Company	Merge	12/177
PennzEnergy Exploration & Production Company	Devon Energy Productions Company LP	Merge	12/278
Devon Energy Productions Company LP	East Resources Inc	Assignment	370/580
East Resources Inc	American Energy – Marcellus LLC	Assignment	153A/238
American Energy – Marcellus LLC	Ascent Resources – Marcellus LLC	Name Change	13/304
Ascent Resources – Marcellus LLC	Tribune Resources LLC	Name Change	13/421
Tribune Resources LLC	Antero Resources Corporation	Partial Assignment	310A/473
TIDUITE RESOURCES LLC	Antero nesources corporation	rai tiai Assigiiillellit	31UM/4/3

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. Re	oyalty	Book/Page
/ P John R. McCoy, et al Lease:				
	John R. McCoy, et al	J.F. Guffey	1/8	48/445
	J.F. Guffey	W.M. Graham	Assignment	48/445
	W.M. Graham	W.H. Nimick	Assignment	48/445
	W.H. Nimick	South Penn Oil Company	Assignment	48/445
	South Penn Oil Company	Pennzoil Company	Name Change	WVSOS
	Pennzoil Company	Pennzoil Products Company	Assignment	319/397
	Pennzoil Products Company	Pennzoil Exploration & Production Company	Assignment	363/384
	Pennzoil Exploration & Production Company	PennzEnergy Exploration & Production Compar	y Merge	12/177
	PennzEnergy Exploration & Production Company	Devon Energy Producion COmpany LP	Merge	12/278
	Devon Energy Production Company LP	East Resources Inc	Assignment	370/580
	East Resources Inc	American Energu - Marcellus LLC	Assignment	153A/238
	American Energy - Marcellus LLC	Ascent Resources - Marcellus LLC	Name Change	13/304
	Ascent Resources - Marcellus LLC	Tribune Resources LLC	Name Change	13/421
	Tribune Resources LLC	Antero Resources Corporation	Partial Assignmen	at 310A/473

## 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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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 Ledy	
Its:	Senior Vice President of Land	

Page 1 of 1

Operator's Well Number

Midas Unit 1H

## 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

\*Cotenancy 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

\*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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December 28th, 2023

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Mr. Taylor Brewer 601 57<sup>th</sup> 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 wells on the Cedar Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Midas Unit 1H & Wilma Unit 1H wells.

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the revised MD and Production Casing/Cement program
- REVISED Form WW-6A1, which shows the leases we will be drilling into

REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7373.

Thank you in advance for your consideration.

Sincerely,

Carly Marvel Permitting Agent

Antero Resources Corporation

Enclosures

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