

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, October 13, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for MAMBA UNIT 1H

47-095-02820-00-00

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.

Operator's Well Number: MAMBA UNIT 1H

Farm Name: DENNIS & CLISTA HEINTZMAN

James A. Martin

U.S. WELL NUMBER: 47-095-02820-00-00

Horizontal 6A New Drill

Date Modification Issued: 10/13/2022

Promoting a healthy environment.

API NO. 47-095	_ 02820	
OPERATOR W	ELL NO.	Mamba Unit 1H MOD
Well Pad Nat	ne Heintz	man Pad

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

l) Well Opera	tor: Antero	Resources	Corporal	494507062	095 - Tyler	Ellsworth Porter Falls 7.5'
				Operator ID	County	District Quadrangle
2) Operator's	Well Numbe	r: Mamba Ur	nit 1H MOI	D Well P	ad Name: Hein	tzman Pad
3) Farm Name	Surface Ow	ner: Dennis &	Clista Heintz	man Public Ro	oad Access: Elk	Fork Rd
4) Elevation, o	current groun	d: 1215'	Elev	vation, propose	d post-construct	ion: ~1193'
5) Well Type	(a) Gas Other	X	Oil	Un	derground Stora	ge
	(b)If Gas	Shallow	X	Deep		
		Horizontal	X			
6) Existing Pa	d: Yes or No	Yes				
	-				and Expected F ciated Pressure-	
8) Proposed T	otal Vertical	Depth: 7100	D' TVD			
9) Formation			Marcellus			
10) Proposed	Total Measur	red Depth:	25100' MD			
11) Proposed	Horizontal L	eg Length:	16205.1'			
12) Approxim	ate Fresh Wa	ater Strata De	pths:	420', 475'		
13) Method to				-095-00269 Offset wel	records. Depths have	been adjusted according to surface elevations.
14) Approxim			-			
15) Approxim	ate Coal Sea	m Depths: 5	8'			
16) Approxim	ate Depth to	Possible Voice	d (coal min	e, karst, other):	None Anticipa	ated
17) Does Prop directly overly				Yes	No	o X
(a) If Yes, pr	rovide Mine	Info: Name:				
		Depth				
		Seam:				
		Owner	c:			
			Office	of Oil and Gas		
						Page 1 of 3
			W	N Department of ronmental Protecti	no	Stave myor
		*	Envi	loun		9/30/22/0/14/202

ADI	NO	47-	095		02820
AFI	MUJ.	41-	000	_	

OPERATOR WELL NO. Mamba Unit 1H MOD Well Pad Name: Heintzman 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	X-60	78.67#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	525	525	CTS, 729 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	3293	3293	CTS, 1341 Cu. Ft.
Intermediate							
Production	5-1/2"	New	PY-110ICY	23#	25100	25100	6253 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners						1	

ТҮРЕ	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"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-MPOZ & Tall - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners					1		

PACKERS

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

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Office of Oil and Gas

OCT 3 2022

WV Department of Environmental Protection

9/30/72 10/14/2022

API NO. 47-095 - 02820

OPERATOR WELL NO. Mamba Unit 1H MOD

Well Pad Name: Heintzman 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): 56.03 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 7.82 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 cement,

Surface: Class A cement with 2-3% calclum chloride and 1/4 lb of flake Intermediate: Class A 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 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.

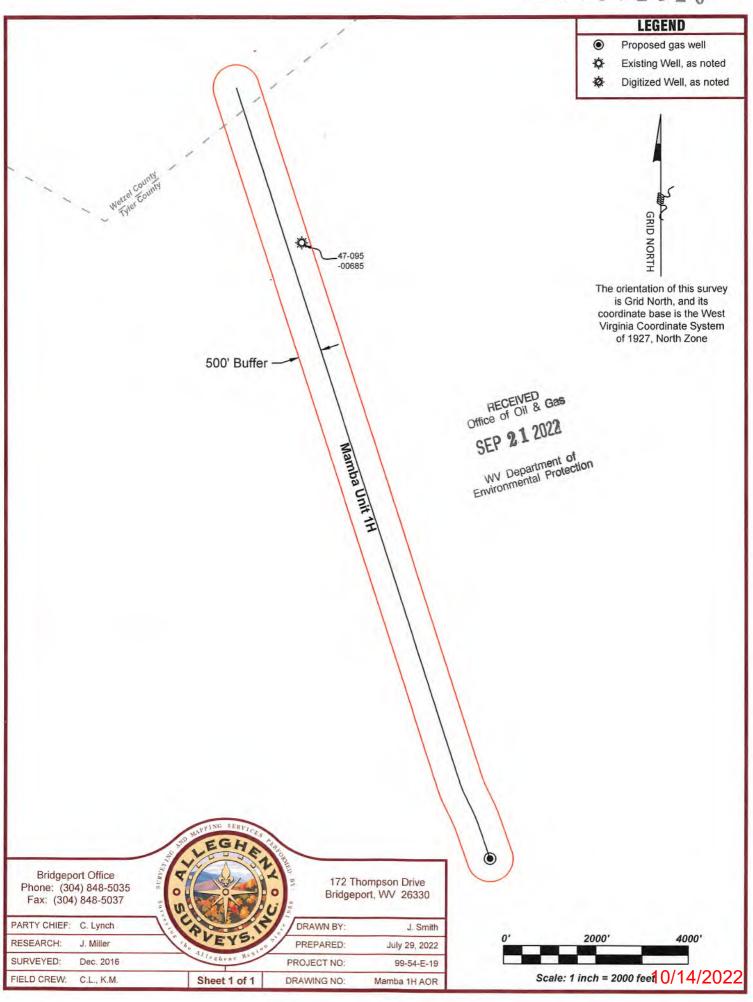
*Note: Attach additional sheets as needed.

RECEIVED Office of Oil and Gas

3 2022

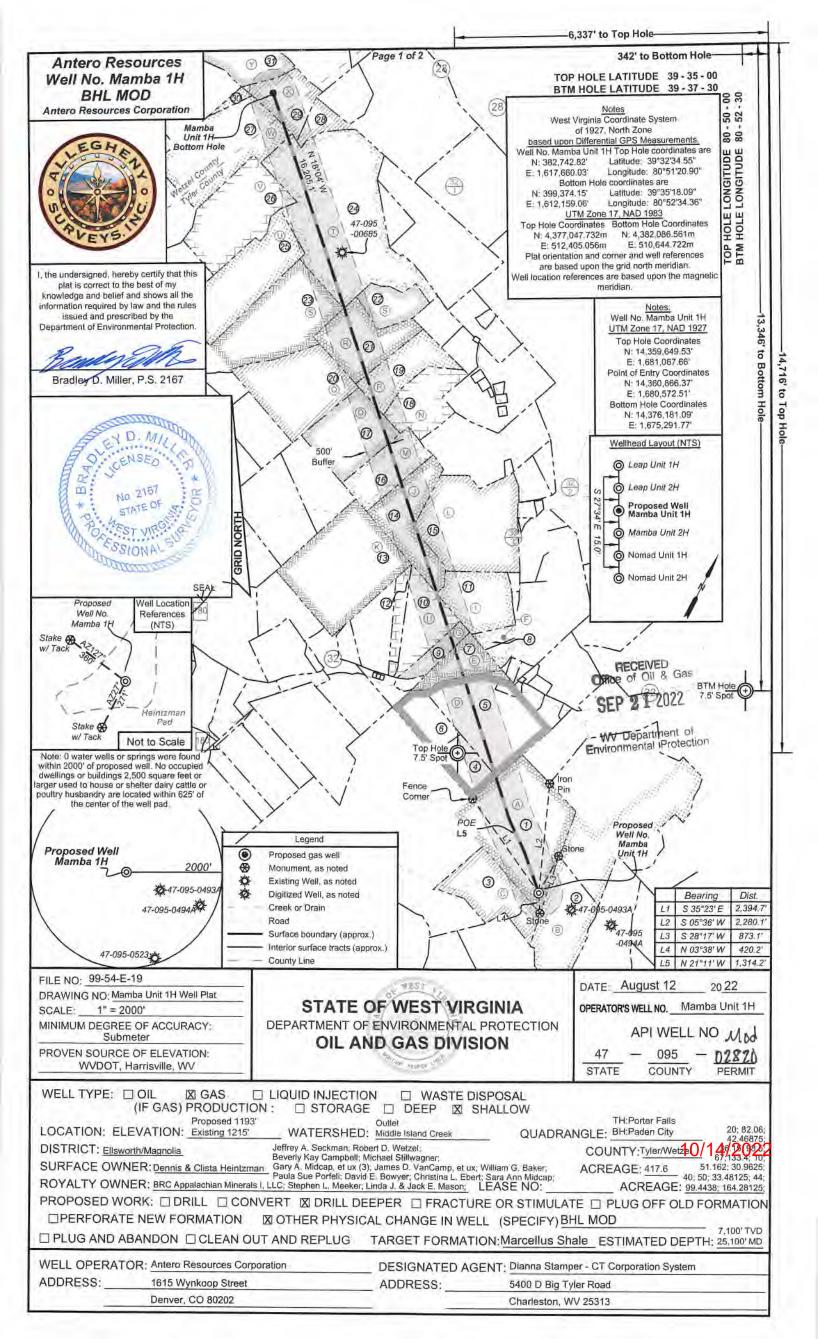
WV Department of **Environmental Protection**

Steve M904 9/20/22 10/14/2022



UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095006850000	KIMBLE BRADY	1 E	OT PRODUCTION CO	CARTER-JONES LUMBER	2,695	2391 - 2581	Berea	Weir, Benson, Alexander





Antero Resources Well No. Mamba 1H BHL MOD

Antero Resources Corporation



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SEP 21 2022

WV Department of Environmental Protection

ID	TM/Par	Owner	Bk/Pg	Acres
1	6-36	Dennis & Clista Heintzman	297/640	417.60
2	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08
3	6-49	Dennis & Clista A. Heintzman	297/637	45.00
4	6-26.1		52/185	18.00
5	6-27	Ronnie L. VanCamp, et al	568/32	69.88
6	6-26	Ronnie L. VanCamp, et al	670/641	23.00
7	6-47	Jeffrey Seckman	545/70	18.99
8	6-20.1	Jeffrey Seckman	545/70	2.52
9	6-19	Linda J. & Jack E. Mason	OR 101/678	10.00
10	6-18	Kirk Family Trust	511/171	39.00
11	6-20	Jeffrey Seckman	545/70	36.15
12	6-18.2	Kirk Family Trust	511/169	11,00
13	6-6	Gary A. & Penny K. Midcap	301/265	100.00
14	6-7	Gary A. & Penny K. Midcap	301/265	30.90
15	6-8	Matthew T. Ebert	361/219	98.50
16	3-26.1	Gary A. & Penny K. Midcap	301/265	40.00
17	3-26	Gary A. Midcap	318/496	50.00
18	3-27	Herbert & Phyllis Glendenning	349/827	33,25
19	3-25.1	Gary A. & Penny K. Midcap	304/230	33.48
20	3-24	Gary A. & Penny K. Midcap	301/265	66.50
21	3-25	Gary A. & Penny K. Midcap	301/265	42.47
22	3-19	Gary A. & Penny K. Midcap	301/265	20.94
23	3-18	Gary A. Midcap	322/108	80.33
24	3-9	Steven D. & Brenda M. Higgins	313/623	163.34
25	3-13	Lomax R. Kunkel (L/E)	297/692	63.50
26	3-8	Steven D. & Brenda M. Higgins	313/623	67.00
27	16-67	Robert D. Wetzel	404/372	82.06
28	1-11	Daniel A. Witschey	541/326	122.8
29	16-64	Richard Todd Kay	420/650	29.00
30	16-61.1	Robert D. Wetzel	184/351	3.00
31	16-63	Richard E. Kay, et ux	395/329	19.00

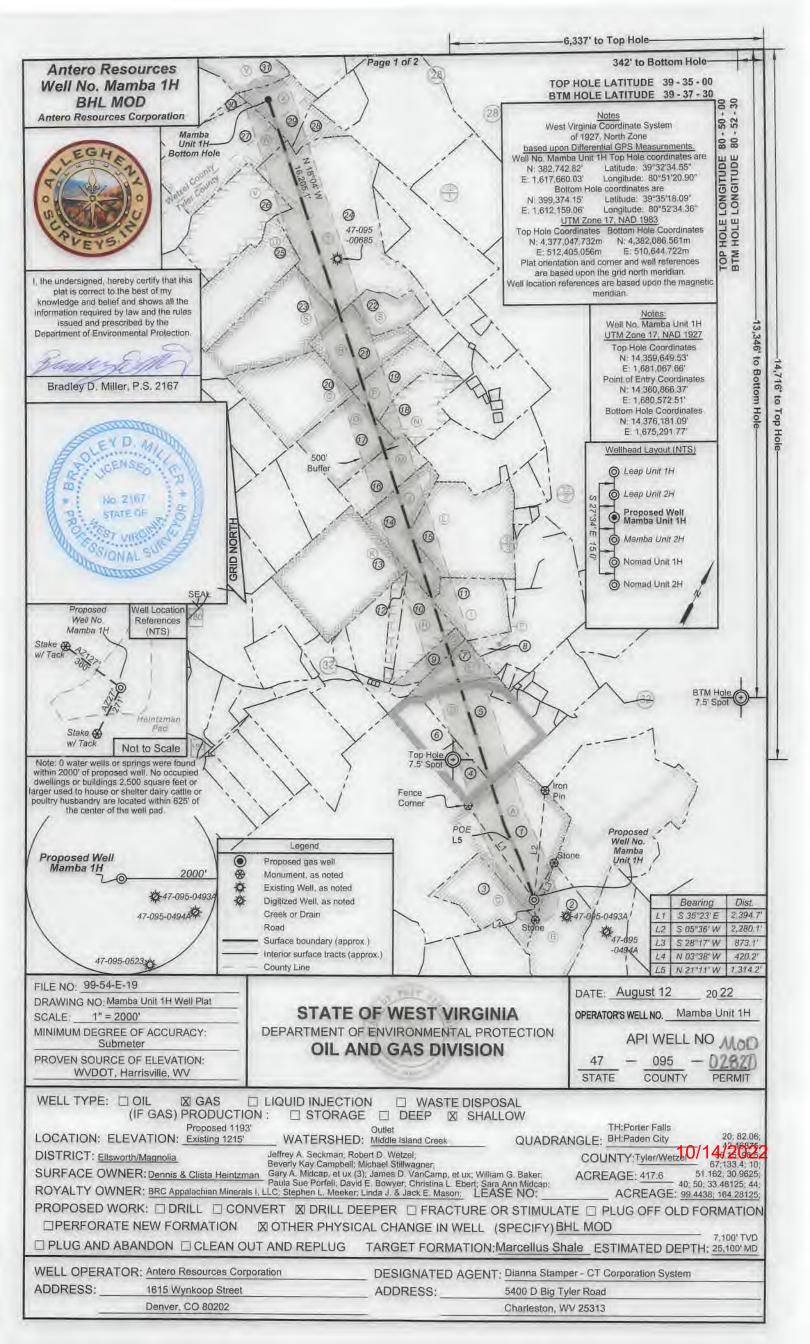
	Leases
Α	BRC Appalachian Minerals I, LLC
В	Rose Enterprises, LLC
C	Dennis R. & Clista A. Heintzman
D	Judy P. Meyers
E	Jeffrey Seckman
F	James D. VanCamp
G	Linda J. & Jack E. Mason
Н	Paula Sue Porfeli
1	David E. Bowyer
J	Gary A. Midcap, et ux
K	Gary A. Midcap, et ux
L	Christina L. Ebert
M	Gary A. Midcap, et ux
N	BRC Appalachian Minerals I, LLC
0	Sara Ann Midcap
P	James D. VanCamp, et ux
Q	Will E. Morris Heirs Trust
R	William G. Baker
S	Gary A. Midcap, et ux
T	Beverly Kay Campbell
U	Lowmax R. Kunkel
٧	Joel Potts, III
W	Robert D. Wetzel
X	Michael Stillwagner
Y	Joel A. Potts, III

FILE NO: 99-54-E-19	
DRAWING NO: Mamba Unit 1H 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:	Augu		20 22	
Ì	OPERATO	R'S WEL	L NO	Mamb	a Unit 1H
		AP	I WE	LL N	Mod
	47	-	095		02820

WVDO1, Harrisville, WV	burn 1/1	STATE COUNTY PERMIT
WELL TYPE: OIL GAS (IF GAS) PRODUCT Proposed 11 LOCATION: ELEVATION; Existing 121:	193' Outlet	
DISTRICT: Ellsworth/Magnolia SURFACE OWNER: Dennis & Clista Heint ROYALTY OWNER: BRC Appalachian Mine	Jeffrey A. Seckman; Robert D. Wetzel; Beverly Kay Campbell; Michael Stillwagner; Gary A. Midcap, et ux (3); James D. VanCamp, et ux; William G. B Paula Sue Porfeli; David E. Bowyer; Christina L. Ebert; Sara Ann N erals I, LLC; Stephen L. Meeker; Linda J. & Jack E. Mason; LEASE N	COUNTY: Tyler/Wetz 10 / 1 / 2 / 2 / 2 / 3 / 3 / 3 / 3 / 3 / 3 / 3
PROPOSED WORK: ☐ DRILL ☐ CO ☐ PERFORATE NEW FORMATION ☐ PLUG AND ABANDON ☐ CLEAN		7.100' TVD
WELL OPERATOR: Antero Resources Co. ADDRESS: 1615 Wynkoop Street		nna Stamper - CT Corporation System D Big Tyler Road
Denver CO 80202	Cha	plantage WAY 25242



Antero Resources Well No. Mamba 1H BHL MOD

Antero Resources Corporation



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W	Robert D. Wetzel
X	Michael Stillwagner
Y	Joel A. Potts, III

FILE NO: 99-54-E-19 DRAWING NO; Mamba Unit 1H Well Plat 1" = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

WELL TYPE: OIL

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

DATE: August 12 20 22 OPERATOR'S WELL NO. ___ Mamba Unit 1H API WELL NO MOD 47 — 095 — COUNTY - 02820

PERMIT

☐ WASTE DISPOSAL ☐ LIQUID INJECTION X GAS (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW TH:Porter Falls Proposed 1193' Outlet E: BH:Paden City

LOCATION: ELEVATION: Existing 1215'	WATERSHED: Middle Island Creek	QUADRA	ANGI
DISTRICT: Ellsworth/Magnolia	Jeffrey A. Seckman; Robert D. Wetzel; Beverly Kay Campbell; Michael Stillwagner;		C
SURFACE OWNER Dennis & Clista Heintzman	Gary A. Midcap, et ux (3): James D. VanCamp, et ux: Willian	n G. Baker:	AC

COUNTY: Tyler/Wet2e0/14/2002 67:133 4: 70: CREAGE: 417.6 51.162; 30.9625: CREAGE: 417.6 51.162; 30.9625; 44; 50; 33.48125; 44; ROYALTY OWNER: BRC Appalachian Minerals I, LLC; Stephen L. Meeker; Linda J. & Jack E. Mason; LEASE NO: ACREAGE: 99.4438; 164.28125;

PROPOSED WORK! □ DRILL □ CONVERT ⊠ DRILL DEEPER □ FRACTURE OR STIMULATE □ PLUG OFF OLD FORMATION

THO OSED WORK. DUNIEL GOOD	WENT & DIVILL DELI EN LINACIONE	OK STIMOLATE TEGG OF OLD FORMATION
□PERFORATE NEW FORMATION	☑ OTHER PHYSICAL CHANGE IN WELL	(SPECIFY) BHL MOD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,100' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road

Charleston, WV 25313 Denver, CO 80202

Operator's Well Number

Mamba 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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
A: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
D: Judy P. Meyers Lease			
Judy P. Meyers	Antero Resources Corporation	1/8+	0002/0044
E: Jeffrey Seckman Lease			
Jeffrey Seckman	Antero Resources Corporation	1/8+	0191/0097
G: Linda J. & Jack E. Mason			
Linda J. and Jack E. Mason	Antero Resources Corporation	1/8+	0163/0381
H: Paula Sue Porfeli Lease	·		
Paula Sue Porfeli	Antero Resources Corporation	1/8+	0424/0535
		RECEIVED 1/8+ Office of Oil & Gas	
I: David E. Bowyer Lease		Office of 2023	
David E. Bowyer	Antero Resources Corporation	SEP 2 1 ZUZZ 1/8+	0191/0095
J: Gary A. Midcap, et ux Lease		WV Department of Environmental Protection 1/8+	
Gary A. Midcap, et ux	Antero Resources Corporation	WV Departal Protection	0070/0182
	·	EUALOLINA	
L: Christina L. Ebert Lease			
Christina L. Ebert	Antero Resources Corporation	1/8+	0108/0694
tion and a			
<u>J: Gary A. Midcap, et ux Lease</u> Gary A. Midcap, et ux	Antona Bassimasa Camanatian	4 (0)	2072/202
dai y A. Wildcap, et ax	Antero Resources Corporation	1/8+	0070/0182
M: Gary A. Midcap, et ux Lease			
Gary A. Midcap, et ux	Antero Resources Corporation	1/8+	0070/0182
			•
O: Sara Ann Midcap Lease			
Sara Ann Midcap	Antero Resources Corporation	1/8+	0080/0659
P: James D. Van Camp, et ux Lease			
James D. VanCamp, et ux	Antero Resources Corporation	1/8+	0664/0478
R: William G. Baker Lease			
William G. Baker	Antero Resources Corporation	1/8+	0016/0488
	Nacanada da parada	2/01	10/14/2022
			10/11/2022

Operator's Well Number

Mamba 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)

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- (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
S: Gary A. Midcap, et ux Lease Gary A. Midcap, et ux	Antero Resources Corporation	1/8+	0070/0182
T: Beverly Kay Campbell Lease Beverly Kay Campbell	Antero Resources Corporation	1/8+	0012/0572
W: Robert D. Wetzel Lease Robert D. Wetzel	Antero Resources Corporation	1/8+	0076/0499

Office of Oil & Gas SEP 21 2022

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.

WW-6A1 (5/13)

Operator's Well No	. Mamba 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)

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
X: Michael Stillwagner Lease				
	Michael Stillwagner	Stone Energy Corporation	1/8	0421/0168
	Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
	EQT Production Company	Antero Resources Corporation	Assignment	0662/0686

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

Office of Oil & Gas SEP 21 2022

W Department of Environmental Protection

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

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

Page 1 of 1

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