

### 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, October 16, 2023 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit Modification Approval for Allender Unit 1H

47-085-10496-00-00

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) 926-045

James A. Martin

Chief

Operator's Well Number: Allender Unit 1H Farm Name: Pierce, Elmer W.

U.S. WELL NUMBER: 47-085-10496-00-00

Horizontal 6A New Drill

Date Modification Issued: 10/16/2023

Promoting a healthy environment.

API NO. 47-085	-	10496		
<b>OPERATOR WE</b>	LL	NO.	Allender Unit 1H MOD	
Well Pad Name	2:	Cashe	w Pad	-

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

1) Well Operato	r: Antero Res	ources Corpo			085-Ritchie	Union /	Oxford 7.5'	/
			Operator	ID	County	District	Quadrangle	
2) Operator's W	ell Number: All	ender Unit 1H	MOD W	ell Pad	Name: Cash	ew Pad	/	
3) Farm Name/S	urface Owner:	Elmer W. Pier	ce / Publ	lic Road	d Access: Sug	ar Run Ro	ad /	
4) Elevation, cur	rent ground:		Elevation, pro	posed p	oost-construction	on: 1019'		
5) Well Type	(a) Gas	Oil .	X	Unde	rground Storag	e		-
18	Other			_				
	(b)If Gas Sha	llow X	De	ер				
	Ho	rizontal X						
6) Existing Pad:	Yes or No Yes	3						
7) Proposed Targ	get Formation(s le: 6900' TVD, A	), Depth(s), And noticipated Thick	ticipated Thickness- 55 feet, A	kness ar Associat	nd Expected Pr ted Pressure- 2	essure(s): 800#		
8) Proposed Tota	al Vertical Dept	h: 6900' TVD	1					
9) Formation at 7	Γotal Vertical D	epth: Marcell	us ′					
10) Proposed To	tal Measured De	epth: 24000'	MD /					
11) Proposed Ho	rizontal Leg Le	ngth: 13964.	5' /					
12) Approximate	Fresh Water St	trata Depths:	53', 236'	/		Resilies - Sensitivo W. Latore		
13) Method to D	etermine Fresh	Water Depths:	47-085-0765	54, 47-	085-10419	3 4		-
14) Approximate			17' /					
15) Approximate	Coal Seam De	pths: None Ide	entified					
16) Approximate	Depth to Possi	ble Void (coal 1	nine, karst, otl	her): N	lone Anticipat	ed		
17) Does Propos	ed well location	contain coal se	ame					
directly overlying					No	X	RECEIVED Office of Oil and O	
			453000,00000,0000					
(a) If Yes, prov	ide Mine Info:						OCT 11 202	3
		Depth:				En	WV Department ovironmental Protein	of
		Seam:				5m111		otion
		Owner:						
16.00								



Page 1 of 3

API NO. 47-\_085\_\_\_\_10496

OPERATOR WELL NO. Allender Unit 1H MOD
Well Pad Name: Cashew Pad

18)

### CASING AND TUBING PROGRAM

TYPE		Marri				1	
	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	H-40	94#	100	100 /	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300	300 /	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500 ′	CTS, 1018 Cu. Ft.
Intermediate					B1001-300-200-200-200-200-200-200-200-200-200	2000	010, 1010 04.11.
Production	5-1/2"	New	P-110	23#	24000	24000 /	CTS, 6191 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		21000	010, 0191 04.11
Liners							

TYPE		20000 20000	Wall		A		
	Size (in)	Wellbore Diameter (in)	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/L	
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					.000	0.0007112	~1.10
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	· 2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			TW 02 1.44 & 11-1.0
Liners				,200			

### **PACKERS**

Kind:	N/A	
Sizes:	N/A	Office of Oil and Gas
Depths Set:	N/A	OCT 16 2023
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WW-6B
(10/14)

API NO. 47-085 - 10496

OPERATOR WELL NO. Allender Unit 1H MOD
Well Pad Name: Cashew Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new vertical shallow well and complete Marcellus Shale.

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): 33.75 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 14.29 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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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 H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

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WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

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

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

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

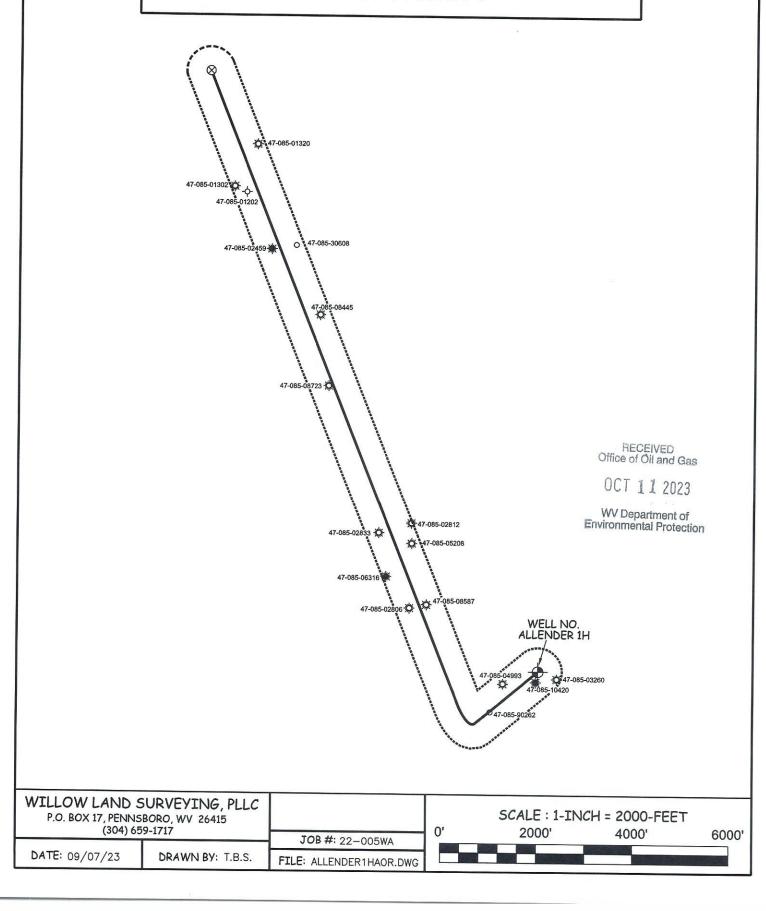
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls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

\*Note: Attach additional sheets as needed.

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0a 10/10/13

## CASHEW PAD ANTERO RESOURCES CORPORATION



UWI (APINum) Well Name	Well Number	Operator	Historical Operator	Ð	Perforated Interval (shallowest, deepest)	Perforated Formation(e)	Drawfurthia Commission is see the
47085104200000 ELKLICK UNIT	HZ.	ANTERO RESOURCES CORP		20 905	1	Margare live	Toundale romanories not per
47085049930000 SMITH	2	BETA HELIX ENERGY LLC	T	E 105		Mai cellus	
datain a coccaccage	,		OTHER PROPERTY.	2010		Baltown, Benson, Alexander	Weir, Berea
4 VOSOS ZBOODON R L REISTER	13	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun	Wair Bares
-47085902620000							wall, belea
-47085028060000 EARL PIERCE	1	R & R OIL & GAS LLC	OIL STATES SALES	2.144		Collinar	2 177
47085063160000 ZINN FELIX HEIRS	1	RITCHIE PETROLEUM CORP INC	SHALE SERVICE	5 290	000A - 885F	Otton Linear Angella	Well, beled, belison, Alexander
47085028330000 FELIX ZINN HRS	3	UN	STRICKLIN CA	2 127		Distriction, August	Weir, Berea, Benson, Alexander
47085087230000 NICHOLSON	1	KEY OIL CO		5 142	2670 4063	Dig mjun	Weir, Berea, Benson, Alexander
47085024590000 C D ALLENDER	1	TERM ENERGY	A	7 095		Mey, benon, Aexander	Weir, Berea
47085012020000 PRUNTY LEE	1	MOSSOR OIL & GAS	CAC	2000		og cine, big mjun	Weir, Serea
47085013020000 L PRUNTY	-	FMPIRE OIL & GAS CO	Colbaicwo	2000			
47085013200000 A D & C ZINN	-	GRIBBLE W.D		2,030		Big Injun	Weir, Berea, Benson, Alexander
47085306080000 F O PRUNTY	1	GOODWIN FARI S	5 18	Z,104		Big Injun	Weir, Berea, Benson, Alexander
747085084450000 PRUNTY EMMA F ET AL	TAL S			5 320	3308 - 5144	Marrow Connect law Dellacers Differ Dellacers	4
47085028120000 E M MARTIN	1	RUDDER OIL & GAS	& GAS	2.241		Nation, Speculicy, Ballown, Rier, Denson, Alexander	Weir, Berea
47085052080000 REED HATTIE O ET AL	4L 1	BETA HELIX ENERGY LLC	CHASE PETROLEUM CO	5,466	4340 - 5265	Rilay Rancon Alayandar lays	Weil, bered, benson, Alexander
47085085870000 PIERCE	5	KEY OIL CO		5.383		Warren Spechler Ballbaue Bles Benesa stander	Well, Odles
		A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN C				TABLETT, SPECULIES, BALLOWIP, MIGH, DESIGNAL MICHAELLE	Well Deres

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WV Department of Environmental Protection Operator's Well Number

Allender 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
R. F. Kiester, et al Lease:				
R. F. Kiester, et al	G. L. Yaste		1/8	105/504
G. L. Yaste	D. L. Y., Inc		Assignment	105/504
D. L. Y., Inc	Betty Jean Stalnaker & Rosalee Ro	berts	Assignment	112/302
Betty Jean Stalnaker & Rosalee Roberts	R & S Gas Company		Assignment	132/565
R & S Gas Company	BET-RO Inc		Assignment	147/548
BET-RO Inc	Roberts Energy Corporation		Assignment	147/554
Roberts Energy Corporation	Antero Resources Corporation		Assignment	240/36 329/138
Della M. Shepler, et al Lease:				100 statuted ▼talastavites s
Della M. Shepler, et al	Alton Skinner		1/8	4001010
Alton Skinner	Crystal G. Skinner and Desari S. Ga	rrett		132/345
Crystal G. Skinner and Desari S. Garrett	D C Petroleum, Inc.		Assignment	216/391
D C Petroleum, Inc.	Antero Resources Appalachian Co	rnoration	Assignment	247/245
Antero Resources Appalachian Corporation	Antero Resources Corporation	poration	Assignment	254/789
	0.000		Name Change	15/705
James Beck, et al Lease				
James Beck, et al	George L. Yaste dba Oil State Sales	Company	1/8	100/515
George L. Yaste dba Oil State Sales Company	D.L.Y. Inc.	, , ,	Assignment	100/516
D.L.Y. Inc.	Betty Jean Stalnaker & Rosalee Ro	berts dha	Assignment	112/302
5	R. &S. Gas Company		Assignment	132/565
Betty Jean Stalnaker & Rosalee Roberts dba	R. & S. Gas Company, a partnershi	р	Assignment	147/540
R. &S. Gas Company	97 (993) 67		, iosiBillicit	147/548
R. & S. Gas Company, a partnership	BET-RO Inc		Assignment	147/554
BET-RO Inc	Roberts Energy Corporation		Assignment	240/36
Roberts Energy Corporation	Antero Resources Corporation		Assignment	329/138
Earl Pierce, et ux Lease:				320, 200
Earl Pierce, et ux	11 1111 11			
Harrold Haddox	Harrold Haddox		1/8	100/205
George L. Yaste dba Oil State Sales Company	George L. Yaste dba Oil State Sales	Company	Assignment	100/510
D.L.Y. Inc.	D.L.Y. Inc.		Assignment	112/302
D.E.T. IIIC.	Betty Jean Stalnaker & Rosalee Rol	erts dba	Assignment	132/565
Betty Jean Stalnaker & Rosalee Roberts dba	R.& S. Gas Company			,
R.& S. Gas Company	BET-RO Inc		Assignment	147/554
BET-RO Inc		RECEIVED		
Roberts Energy Corporation	Roberts Energy Corporation	Office of Oil and Gas	Assignment	240/36
Hoberts Energy Corporation	Antero Resources Corporation		Assignment	302/741
AMP Fund, III, LP. Lease:		OCT 1 1 2023		
AMP Fund, III, LP	Antero Resources Corporation			
	Antero nesources corporation	WV Department of	1/8+	335/569
Felix Zinn, et al Lease:		Environmental Protection	n	
Felix Zinn, et al	C. A. Stricklin	Environmental Froteetio		
C. A. Stricklin	Big A Oil Company		1/8	97/353
Big A Oil Company	Lamar Oil & Gas Company		Assignment	152/591
Lamar Oil & Gas Company			Assignment	196/320
Antero Resources Appalachian Corporation	Antero Resources Appalachian Corp Antero Resources Corporation	oration	Assignment	255/649
The section of bold and	Antero Resources Corporation		Name Change	15/705

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Elizabeth Hart Lease:			
Elizabeth Hart	John M. Walton		
John M. Walton	Allstate Securities, INC	1/8	108/384
Allstate Securities, INC	,	Assignment	118/377
B & L Oil Company	B & L Oil Company	Assignment	121/491
Waco Oil and Gas Company Inc	Waco Oil and Gas Company Inc	Assignment	181/614
Ashland Inc	Ashland Inc	Assignment	221/1
Ashland Exploration INC	Ashland Exploration INC	Assignment	222/169
Blazer Energy Corporation	Blazer Energy Corporation	Assignment	225/170
	Eastern State Oil & Gas Inc	Name Change	5/778
Eastern State Oil & Gas Inc	Equitable Production Company	Name Change	6/443
Equitable Production Company	EQT Production Company	Name Change	6/443
EQT Production Company	Antero Resources Appalachian Corporation	Assignment	264/477
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	15/705
Charles E. Nicholson Lease:			
Charles E. Nicholson	Key Oil Company	1.10	
Key Oil Company	Antero Resources Appalachian Corporation	1/8	230/274
Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	258/509
	The state of the s	Name Change	15/705
Wilson F. Allender, et al Lease:			
Wilson F. Allender, et al	Alton Skinner	1/8	131/652
Alton Skinner	Crystal G. Skinner and Desari S. Garrett	Assignment	216/391
Crystal G. Skinner and Desari S. Garrett	D C Petroleum, Inc.	Assignment	247/245
D C Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	254/789 <b>15/705</b>
C.O. Wise, et al Lease:			5.5 to 2009
C. O. Wise, et al	W. D. Gribble	- 1-	
W. D. Gribble	Carolyn E. Farr	1/8	79/209
Carolyn E. Farr	Carolyn E. Farr trust by its trustee Clarence E	Will	3/97
To see the section	Sigley	Deed	220/233
Carolyn E. Farr trust by its trustee Clarence E	Antero Resources Appalachian Corporation	Assignment	223/509
Sigley Antero Resources Appalachian Corporation	Antona Bassimas Community	DO COMO TO SOLVENION OF THE SOLVENION OF	
Apparachian Corporation	Antero Resources Corporation	Name Change	15/705
Tracy C. Knight, et ux Lease:	RECEIVED Office of Oil and Gas		
Tracy C. Knight, et ux	Antero Resources Corporation	1/8+	
•	OCT 11 2023	1/8+	332/648
C.O. Wise, et al Lease:	001 11 2023		
C. O. Wise, et al	W. D. Gribble	1/8	
W. D. Gribble	Carolyn E. Farr WV Department of	VAZUL	79/209
Carolyn E. Farr	Carolyn E. Farr trust by its trustee Clarence mental Protection		3/97
	Sigley	Deed	220/233
Carolyn E. Farr trust by its trustee Clarence E Sigley	Antero Resources Appalachian Corporation	Assignment	223/509
Antero Resources Appalachian Corporation	Antero Resources Corporation	Nama Channa	
		Name Change	15/705

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Archie D. Zinn, et ux Lease: Archie D. Zinn, et ux Alton Skinner Crystal G. Skinner and Desari S. Garrett DC Petroleum and Chase Petroleum	Alton Skinner Crystal G. Skinner and Desari S. Garrett DC Petroleum and Chase Petroleum Antero Resources Corporation	1/8 Assignment Assignment <b>Assignment</b>	132/394 216/391 247/245 <b>254/133</b>
/ Jack Cuthrie, et al Lease: Jack Guthrie, et al Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	259/779 15 <b>/7</b> 05

\*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.

— 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

Office of Oil and Gas

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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.

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Eloise Stanley Miracle, et al Leas	e			Bookitugo
	Eloise Stanley Miracle, et al Alton Skinner	Alton Skinner Alton L. Skinner, II, Crystal G. Skinner and Desari S. Garrett	1/8 Will	132/717 216/391
	Alton L. Skinner, II, Crystal G. Skinner and Desari S. Garrett	DC Petroleum	Assignment	170/583
	DC Petroleum Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Name Change	254/133 <b>15/705</b>

### 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

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WV Division of Natural Resources WV Division of Highways

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U.S. Army Corps of Engineers U.S. Fish and Wildlife Service

WV Department of

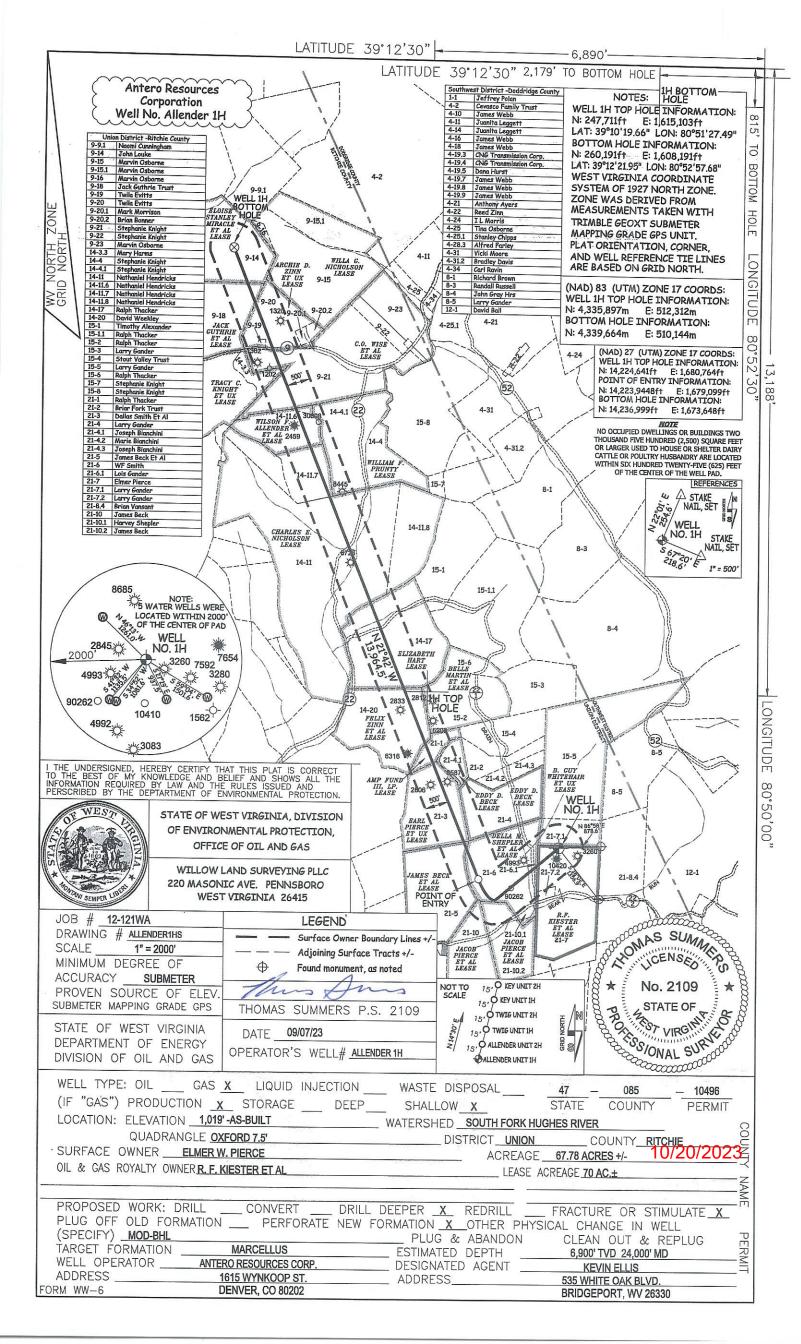
County Floodplain Coordinator

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
Its:	Senior Vice President of Land

Page 1 of 1





October 9th, 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 modification for approved wells on the Cashew Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Allender Unit 1H & Allender Unit 2H.

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.

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OCT 10 2023

WV Department of Environmental Protection

Carly Manuel

Sincerely,

Carly Marvel Permitting Agent

Antero Resources Corporation

Enclosures