

#### 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, September 11, 2023 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for Key Unit 2H

47-085-10501-00-00

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.

Operator's Well Number: Key Unit 2H

Farm Name: Pierce, Elmer W.

U.S. WELL NUMBER: 47-085-10501-00-00

Horizontal 6A New Drill

Date Modification Issued: 09/11/2023

Promoting a healthy environment.

API NO. 47- 085 - 10501

OPERATOR WELL NO. Key Unit 2H MOD

Well Pad Name: Cashew Pad

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

1) Well Operator:	Antero Re	sources Co	rporal	494507062	085-Ritchie	Union	Oxford 7.5'	
				Operator ID	County	District	Quadrangle	
2) Operator's Well Number: Key Unit 2H MOD Well Pad Name: Cashew Pad								
3) Farm Name/Surface Owner: Elmer W. Pierce Public Road Access: Sugar Run Road								
4) Elevation, curre	ent ground:		Ele	vation, proposed p	ost-constructi	on: 1019'		
5) Well Type (a	ı) Gas	0	il X		rground Storag	-		
0	ther							
(b	)If Gas Sha	allow X		Deep				
		rizontal X						
6) Existing Pad: Y	-							
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus Shale: 6900' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#								
8) Proposed Total Vertical Depth: 6900' TVD								
9) Formation at Total Vertical Depth: Marcellus								
10) Proposed Total Measured Depth: 26000' MD								
11) Proposed Horizontal Leg Length: 14681'								
12) Approximate I	12) Approximate Fresh Water Strata Depths: 53', 236' 150', 180'							
13) Method to Determine Fresh Water Depths: 47-085-07654 47-085-10419								
14) Approximate S	Saltwater Dep	ths: 1709',	1847'					
15) Approximate (	Coal Seam De	pths: None	Identif	fied				
16) Approximate I	epth to Possi	ble Void (co	al min	e, karst, other): N	one Anticipate	ed		
17) Does Proposed directly overlying	well location or adjacent to	contain coal an active mi	l seams ne?	Yes	No.	X	RECEIVED  Iffice of Oil and Gas  SEP 0 8 2023	
(a) If Yes, provid	e Mine Info:	Name:						
		Depth:				Enviro	V Department of	
		Seam:					Protection  Onmental Protection	
		Owner:						
		-						

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WW-6B (04/15)

API NO. 47- 085 \_ 10501

OPERATOR WELL NO. Key Unit 2H MOD
Well Pad Name: Cashew Pad

18)

# CASING AND TUBING PROGRAM

TYPE	G:	New				INTERVALS:	CEMENT.
	Size	or	Grade	Weight per ft.	FOOTAGE: For	Left in Well	CEMENT: Fill-up
	(in)	Used		(lb/ft)	Drilling (ft)	(ft)	(Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 89 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							
Production	5-1/2"	New	P-110	23#	26000	26000	5624 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness	Burst Pressure	Anticipated Max. Internal	Cement	Cement Yield
		Diameter (in)	<u>(in)</u>	(psi)	Pressure (psi)	Type	(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	
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate						0.000772	1.10
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Te3 - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

#### **PACKERS**

RECE.	Α	Kind:
RECEIVED e of Oil production	A	Sizes:
P 0 8 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ά	Depths Set:
	A	Depths Set:

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DE 09/05/2023

API NO. 47- 085 - 10501

> OPERATOR WELL NO. Key Unit 2H MOD Well Pad Name: Cashew Pad

<ol><li>Describe proposed well work, including</li></ol>	the drilling and plugging back	of any pilot hole
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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

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

WV Department Environmental Protection

SEP 0 8 2023

#### 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.

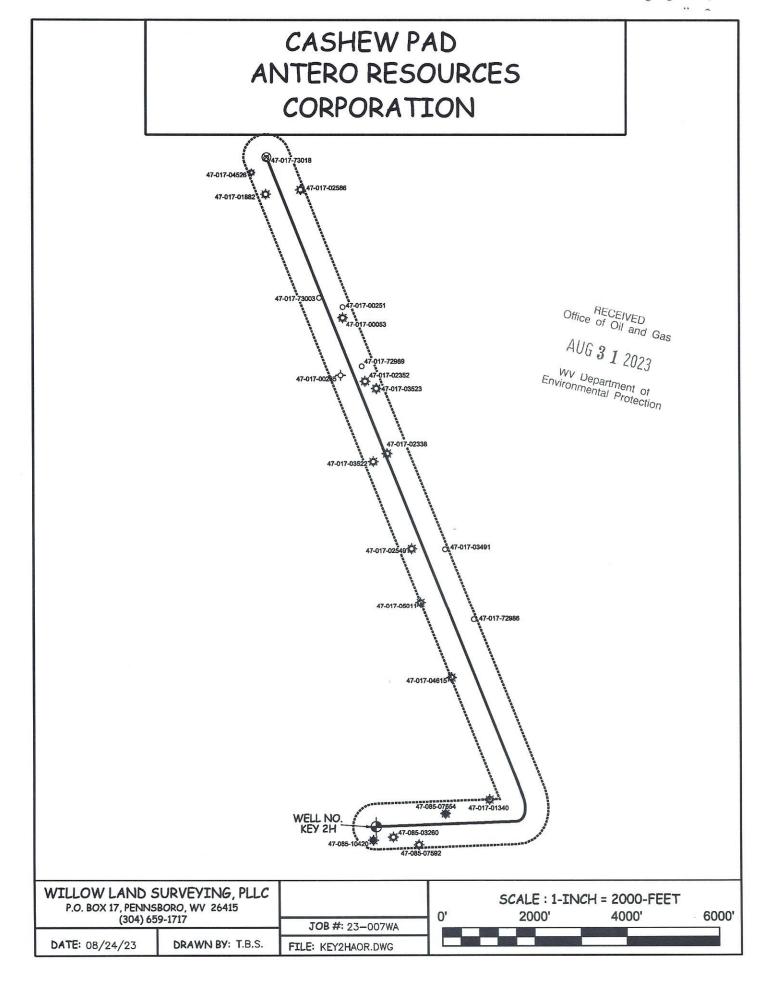
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

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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08/05/2023

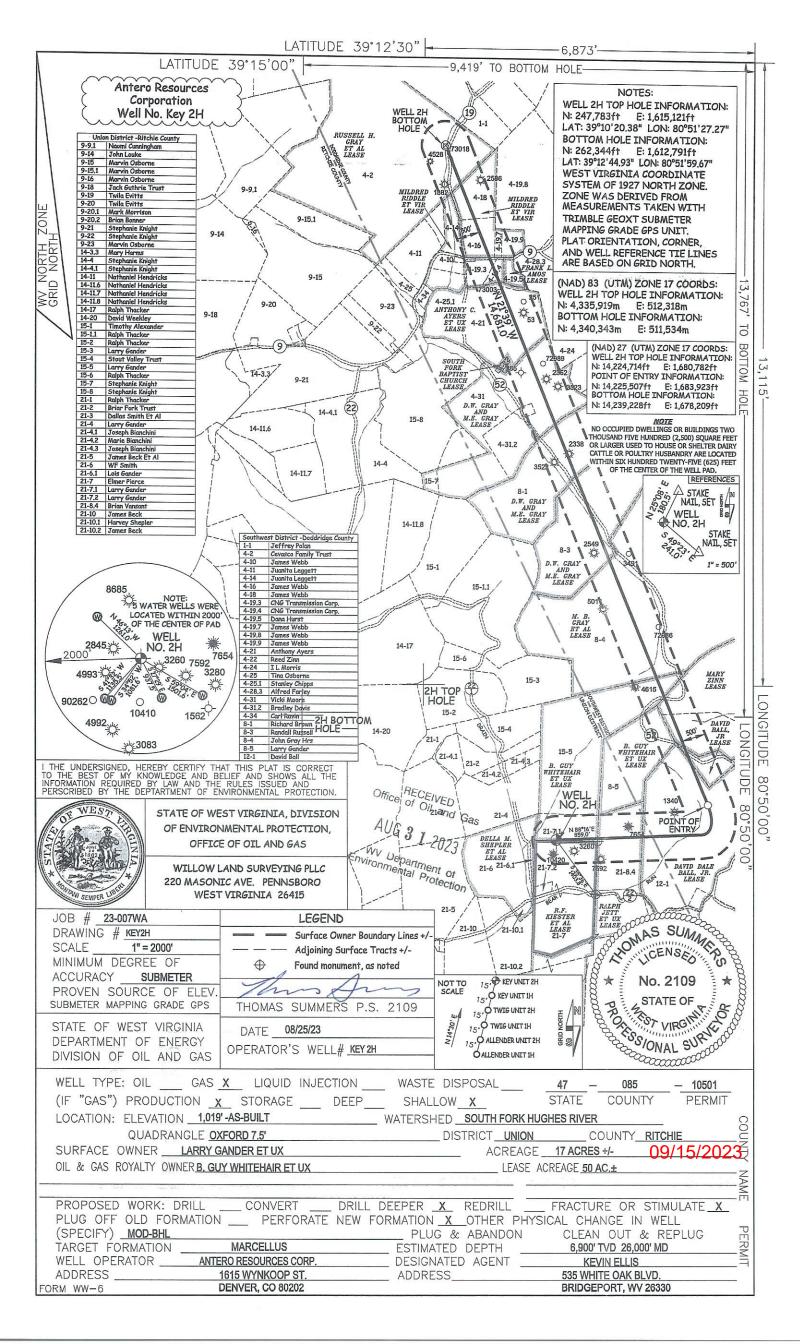


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WV Department of Environmental Protection

UWI (APINum) Well Name	Well Number	Operator	Historical Operator	Ę.	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47085075920000 JETT MYRTLE ET AL	1	CHARITY GAS INC	STALNAKER GENE INC	5,231	3800 - 5200	Riley, Benson, Alexander, Huron, Angola	Weir, Berea
47085032600000 R L KEISTER	3	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun	Weir, Berea, Benson, Alexander
47085076540000 JETT MYRTLE	3	CHARITY GAS INC	HALL HENRY Y	5,217		Speechley, Balltown, Benson, Alexander	Weir, Berea
47017013400000 DAVID BALL	1	HARCON OIL & GAS CO	FERRELL WILLARD E	1,862			Weir, Berea, Benson, Alexander
47085104200000 ELKLICK UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	20,905	6974 - 20778	Marcellus	
47017046150000 WHITEHAIR	3	KEY OIL CO	KEY OIL CO	5,237	3232 - 5076	Balltown, Riley, Alexander, Benson	Weir, Berea
47017050110000 GRAY JOHN M HEIRS ET AL	14261	DIVERSIFIED PRODUCTION LLC	DOMINION EXPL&PROD	2,554	1470 - 2298	3rd Salt, Big Injun, Weir	Benson, Alexander
47017025490000 GRAY HAYWARD	A-861	MINERAL RESOURCES MANAGEMENT LLC	ALLEGHENY LAND&MNRL	2,500	2144 - 2234	Weir	Benson, Alexander
47017035220000 GRAY D W	2743	DIVERSIFIED PRODUCTION LLC	CNG DEVELOPMENT CO	5,180	4926 - 4974	Alexander	Benson
47017002650000 OXFORD BAPTIST CHURCH	2	DIVERSIFIED PRODUCTION LLC	HUNTER R J	1,844	1720 - 1844		
47017730030000 S M BROADWATER		UNKNOWN	UNKNOWN				
47017018820000 E M NUTTER ET AL	1	DIVERSIFIED PRODUCTION LLC	UNITED OPERATING CO	2,243		Weir	Benson, Alexander
47017045260000 GRAY HEIRS	1	KEY OIL CO	KEY OIL CO	5,309	3306 - 5152	Warren, Balltown, Riley, Benson, Alexander	Weir
47017730180000 THOMAS C GRAY 2	911	CARNEGIE NATURAL GAS	CARNEGIE NATURAL GAS				
47017025860000 BROADWATER LEONA	2	DIVERSIFIED PRODUCTION LLC	PETROLEUM DEV CORP	5,260	5120 - 5142	Alexander	Benson
47017002510000 DORSEY E HUFF	1	COFFMAN OIL & GAS	COFFMAN OIL & GAS				
47017000530000 SARAH BROADWATER	1	HUGHES RIVER O & G	HUGHES RIVER O & G	1,901		Big Injun	Benson, Alexander
47017729890000 LLOYD W GRAY	4931	HOPE NATURAL GAS	HOPE NATURAL GAS				
47017023520000 GRAY LLOYD W	A-812	CLEM ENERGY LLC	ALLEGHENY LAND&MNRL	2,466	1978 - 2281	Big Injun, Weir	Benson, Alexander
47017035230000 GRAY D W	2741	DIVERSIFIED PRODUCTION LLC	CNG DEVELOPMENT CO		5094 - 5124	Alexander	Benson
47017023380000 GRAY LLOYD W	A-810	HAUGHT ENERGY CORP	ALLEGHENY LAND&MNRL	2,450	1920 - 2238	Big Injun, Weir	Benson, Alexander
47017034910000 GRAY M B HEIRS	2285	DIVERSIFIED PRODUCTION LLC	CNG DEVELOPMENT CO	5,148	4976 - 5057	Penn System, Price, Alexander	Benson
47017729860000   M B GRAY	2	UNKNOWN	UNKNOWN				



Operator's Well Number

Key Unit 2H 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
B. Guy Whitehair, et ux Lease:			
B. Guy Whitehair, et ux	L.E Mossor and Harry	1/8	107/346
L.E Mossor and Harry	Francis Friestad	Assignment	89/497
Francis Friestad	W.H. Thomson	Assignment	152/213
W.H. Thomson	BET-RO INC	Assignment	177/11
BET-RO INC	Jesam Energy	Assignment	204/134
Jesam Energy	Roberts Energy	Assignment	204/134
Roberts Energy	Key Oil Company	Assignment	258/619
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	263/629
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
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		105/504
D. L. Y., Inc	Betty Jean Stalnaker & Rosalee Roberts	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 <b>Assignment</b>	240/36 <b>329/138</b>
Ralph Jett et ux Lease:			
Ralph Jett, et ux	W.R. Development Co. Inc.	1/0	
W.R. Development Co. Inc.	Whittle Corporation	1/8	191/378
Whittle Corporation		Assignment	254/910
Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	255/526
2000 VVI 100 100 100 100 VVI	Antero Resources Appalachian Corporation  Antero Resources Corporation  RECEIVE  Office of Oil 5	Name Change	15/705
David Dale Ball Jr. Lease:	of Oil	3/10	
David Dale Ball, Jr.	Antero Resources Corporation $\frac{\text{Office of Oil s}}{\text{SEP } 0}$	2 2023 1/8+	417/122
	CEP U	8 2020	417/123
/ David Ball Jr. Lease:	SEI	-	
David Dale Ball, Jr.	Antero Resources Corporation	partment of 1/8+	417/122
	ANV Dep	ntal Protection 1/8+	417/123
/ Mary Zinn Lease:	- wironme	ura, .	
Mary Zinn	Key Oil Company	1/8	00/107
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	88/107
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	276/526 <b>46/523</b>
B. Guy Whitehair, et ux Lease:			
B. Guy Whitehair, et ux	L.E Mossor and Harry	1/0	407/045
L.E Mossor and Harry	Francis Friestad	1/8	107/346
Francis Friestad	W.H. Thomson	Assignment	89/497
W.H. Thomson	BET-RO INC	Assignment	152/213
BET-RO INC	Jesam Energy	Assignment	177/11
Jesam Energy	Roberts Energy	Assignment	204/134
Roberts Energy	Key Oil Company	Assignment	204/705
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	258/619
Antero Resources Appalachian Corporation	Antero Resources Corporation	Assignment	263/629
Transcription Corporation	Amero Resources Corporation	Name Change	46/523

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M. B. Gray and Mary Gray, et al Hope Natural Gas Company Consolidated gas Supply Corporation Consolidated gas Supply Corporation Consolidated Gas Transmission Corporation Consolidated Gas Transmission Corporation CNG Development Dominion Exploration and Production INC Dominion Transmission INC Consol Energy Holdings LLC XVI Consol Energy Holdings LLC XVI Consol Gas Company Consolidated Gas Transmission INC  Dominion Transmission INC Consol Energy Holdings LLC XVI Consol Gas Company CNK Gas Company and Noble Energy Antero Resources Corporation CNG Development D.W. and M. E. Gray Lease: D.W. Gray and M. E. Gray Lease: D.W. Gray and M. E. Gray Lease	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
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Operator's Well Number

Key Unit 2H 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, et	C.	Royalty	Book/Page
D.W. Gray and M. E. Gray Lease:				
D.W. and M.E. Gray M.G. Taylor Tri State Gas Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Development	M.G. Taylor Tri State Gas Company Hope Natural Gas Company Consolidated Gas Supply Corporatio Consolidated Gas Transmission Corp CNG Development Dominion Exploration and Productio	oration	1/8 Assignment Assignment Assignment Assignment Assignment Merger	30/148 26/39 26/93 143/345 135/583 139/41 WVSOS
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Anthony C. Ayers, et ux Lease: Anthony C. Ayers, et ux	Antero Resources Corporation	SEP VOLO	1/8+	502/313
Mildred Riddle, et vir Lease: Mildred Riddle, et vir Clarence W Mutschelknaus J. Robert Hornor Petroleum Development PDC Mountaineer LLC Antero Resources Appalachian Corporation	Clarence W Mutschelknaus J. Robert Hornor Petroleum Development PDC Mountaineer LLC Antero Resources Appalachian Corpo Antero Resources Corporation	WV Department of Environmental Protection	1/8 Assignment Assignment Assignment Assignment Assignment Name Change	102/618 105/277 112/664 240/118 278/607 46/523
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<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)	

Operator's W	ell No.	Key Unit 2H	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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7	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
1	Russell H. Gray, et al Lease	Russell H. Gray, et al Alton Skinner	Alton Skinner Alton L. Skinner, II, Crystal G. Skinner and	1/8 Will	121/123
		Alton L. Skinner, II, Crystal G. Skinner and Desari S. Garrett	Desari S. Garrett DC Petroleum	WIII	222/266
		DC Petroleum Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	Assignment Name Change	257/62 46/523

RECEIVED
Office of Oil and Gas

SEP 08 2023

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

WV Department of Environmental Protection

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:

By: Tim Rady Senior Vice President of Land

Page 4 of 4



August 30th, 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 well on the Cashew Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Key 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.

RECEIVED
Office of Oil and Gas

AUG 3 1 2023

WV Department of Environmental Protection

Carly Moone

Sincerely,

Carly Marvel Permitting Agent

Antero Resources Corporation

Enclosures