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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

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

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Allender Unit 2H  
47-085-10497-00-00

**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.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin  
Chief

Operator's Well Number: Allender Unit 2H  
Farm Name: Pierce, Elmer W.  
U.S. WELL NUMBER: 47-085-10497-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 10/16/2023

Promoting a healthy environment.

10/20/2023

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

- 1) Well Operator: Antero Resources Corporation 494507062 085-Ritchie Union Oxford 7.5'  
Operator ID County District Quadrangle
- 2) Operator's Well Number: Allender Unit 2H MOD Well Pad Name: Cashew Pad
- 3) Farm Name/Surface Owner: Elmer W. Pierce Public Road Access: Sugar Run Road
- 4) Elevation, current ground: \_\_\_\_\_ Elevation, proposed post-construction: 1019'
- 5) Well Type (a) Gas \_\_\_\_\_ Oil X Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow X Deep \_\_\_\_\_  
Horizontal X
- 6) Existing Pad: Yes or No Yes
- 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: 23000' MD
- 11) Proposed Horizontal Leg Length: 13923.1'
- 12) Approximate Fresh Water Strata Depths: 53', 236'
- 13) Method to Determine Fresh Water Depths: 47-085-07654, 47-085-10419
- 14) Approximate Saltwater Depths: 1709', 1847'
- 15) Approximate Coal Seam Depths: None Identified
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X
- (a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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CK# 4024651  
# 7500<sup>00</sup>  
Date 10/5/23

10/10/23

18)

**CASING AND TUBING PROGRAM**

TYPE	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, 417Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500 ✓	CTS, 1018 Cu. Ft. ✓
Intermediate							
Production	5-1/2"	New	P-110	23#	23000	23000 ✓	CTS, 5917 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"	0.438"	1530	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"	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			
Liners							

**PACKERS**

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

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*OC* 10/13/23

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.

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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25) Proposed borehole conditioning procedures:

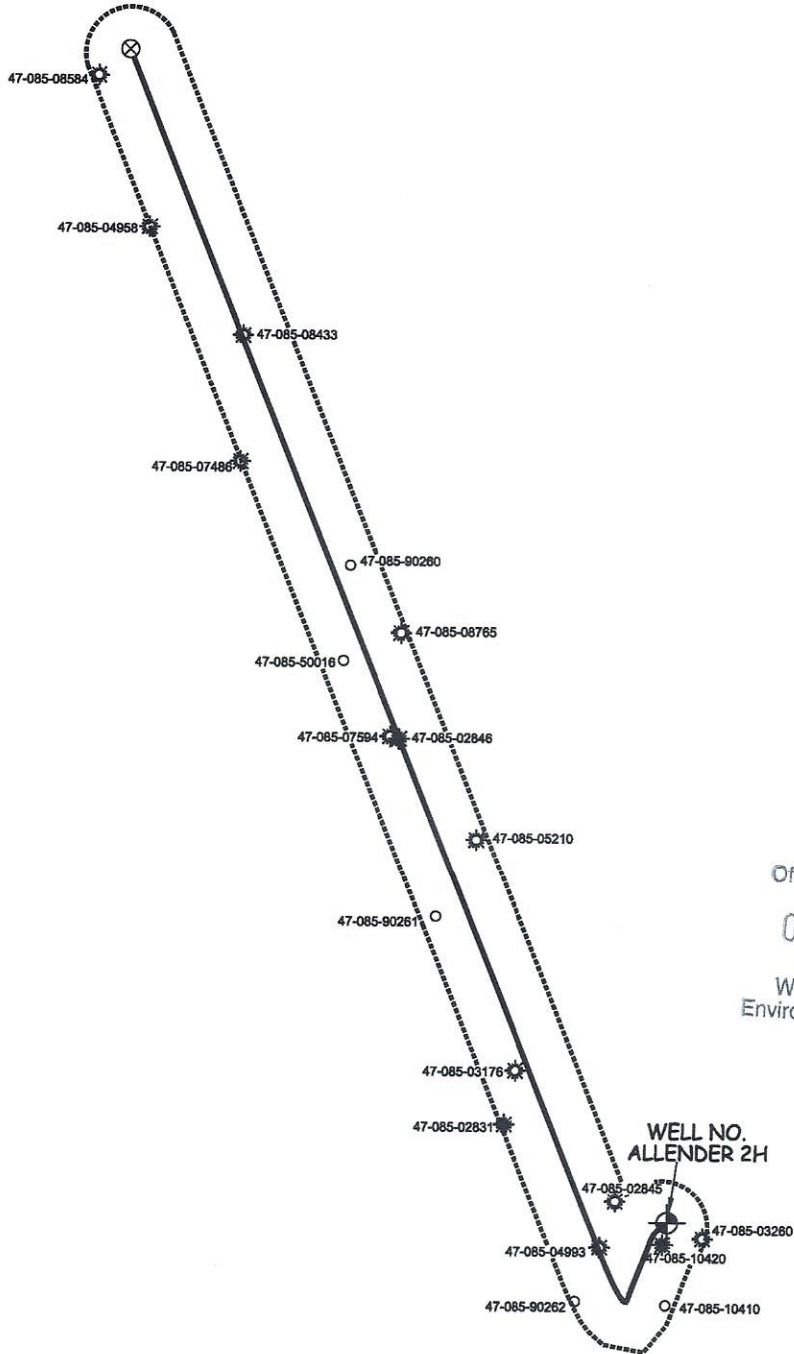
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.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

 10/10/23

10/20/2023

# CASHEW PAD ANTERO RESOURCES CORPORATION



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WELL NO.  
ALLENDER 2H

WILLOW LAND SURVEYING, PLLC  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

JOB #: 22-005WA

FILE: ALLENDER2HAOR.DWG

DATE: 09/07/23

DRAWN BY: T.B.S.

SCALE: 1-INCH = 2000-FEET



10/20/2023

UWI (API/Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)
47085032600000	R L KEISTER	3	R & R OIL & GAS LLC	OIL STATES SALES	2,013		Big Injun
47085104200000	ELCLICK UNIT	2H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP	20,905	6974 - 20778	Marcellus
47085104100000	Cashew	5H	ANTERO RESOURCES CORP	ANTERO RESOURCES CORP			
47085902620000							
47085049930000	SMITH	2	BETA HELIX ENERGY LLC	CHASE PETROLEUM CO	5,185	4554 - 4952	Baltown, Benson, Alexander
47085028310000	D SMITH	2	R & R OIL & GAS LLC	BEAR RUN OIL	2,006		Big Injun
47085902610000							
47085075940000	HART	2	DIVERSIFIED PRODUCTION LLC	WACO O & G CO INC	6,378	3182 - 6214	Speechley, Riley, Benson, Rhinstreet, Genesee
47085500160000	JACOB PRUNTY	3708	CONSOL GAS SUPPLY CRP	CONSOL GAS SUPPLY CRP	2,070		
47085074860000	PRUNTY BILL ET AL	2	BONNETTS PRODUCTION CO	FARR ENTERPRISES	5,285	3303 - 5167	Lower Huron, Angola
47085049580000	ZINN ARCHIE D ET AL	1	BETA HELIX ENERGY LLC	CHASE PETROLEUM CO	5,350	4664 - 5139	Speechley, Riley, Benson, Rhinstreet, Genesee
47085085840000	MIRACLE	1	KEY OIL CO	KEY OIL CO	5,420	3396 - 5232	Warren, Baltown, Riley, Benson, Alexander
47085084330000	PRUNTY LEE HEIRS	2	KEY OIL CO	KEY OIL CO	5,375	3228 - 5091	Warren, Baltown, Riley, Benson, Alexander
47085902600000							
47085087650000	NICHOLSON	3	KEY OIL CO	KEY OIL CO	5,480	3384 - 4878	Warren, Riley, Alexander
47085028460000	W W ZINN HRS	1	RITCHE PETROLEUM CORP INC	HARDMAN DRILLING	1,940		Big Injun
47085052100000	MARTIN BELLE ET AL	2	BETA HELIX ENERGY LLC	CHASE PETROLEUM CO	5,500	4434 - 5234	Baltown, Riley, Benson, Alexander
47085028450000	HARVEY SHEPLER	1	ADAMS ENERGY CO	RUDDER OIL & GAS	1,899		Maxton

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LATITUDE 39°12'30"

6,887'

LATITUDE 39°12'30" 1,182' TO BOTTOM HOLE

Antero Resources Corporation Well No. Allender 2H

Table listing landowners and lease information for Union District - Ritchie County, including names like Naomi Cunningham, John Louke, Marvin Osborne, etc.

Table listing landowners and lease information for Southwest District - Doddridge County, including names like Jeffrey Polan, Cevasco Family Trust, James Webb, etc.

NOTES: HOLE WELL 2H TOP HOLE INFORMATION: N: 247,725ft E: 1,615,106ft LAT: 39°10'19.80" LON: 80°51'27.45" BOTTOM HOLE INFORMATION: N: 260,437ft E: 1,609,192ft LAT: 39°12'24.54" LON: 80°52'45.02" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH. (NAD) 83 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 4,335,901m E: 512,314m BOTTOM HOLE INFORMATION: N: 4,339,744m E: 510,447m (NAD) 27 (UTM) ZONE 17 COORDS: WELL 2H TOP HOLE INFORMATION: N: 14,224,656ft E: 1,680,768ft POINT OF ENTRY INFORMATION: N: 14,224,245ft E: 1,680,075ft BOTTOM HOLE INFORMATION: N: 14,237,263ft E: 1,674,644ft

WV NORTH ZONE GRID NORTH

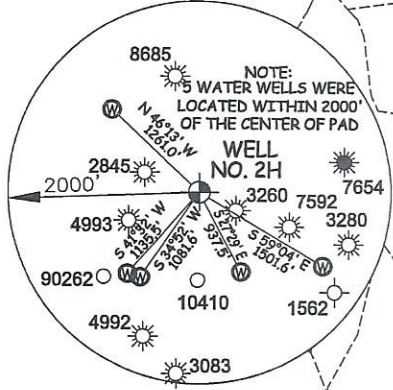
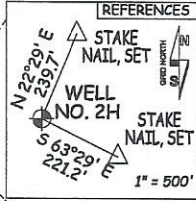
552' TO BOTTOM HOLE

LONGITUDE 80°52'30"

13,173'

LONGITUDE 80°50'00"

NOTE: NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

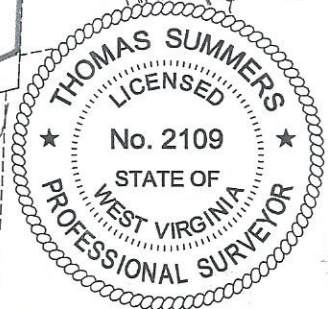
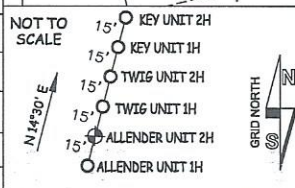
WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 12-121WA DRAWING # ALLENDER2HS SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND Surface Owner Boundary Lines +/- Adjoining Surface Tracts +/- Found monument, as noted THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 09/07/23 OPERATOR'S WELL# ALLENDER 2H



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 085 10497 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,019' -AS-BUILT WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE OXFORD 7.5 DISTRICT UNION COUNTY RITCHIE SURFACE OWNER ELMER W. PIERCE ACREAGE 67.78 ACRES +/- 10/20/2023 OIL & GAS ROYALTY OWNER R. F. KIESTER ET AL LEASE ACREAGE 70 AC +/-

PROPOSED WORK: DRILL CONVERT DRILL DEEPER X REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,900' TVD 23,000' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. DENVER, CO 80202 ADDRESS 535 WHITE OAK BLVD. BRIDGEPORT, WV 26330

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><u>R. F. Kiester, et al Lease:</u></b>			
R. F. Kiester, et al	G. L. Yaste	1/8	105/504
G. L. Yaste	D. L. Y., Inc	Assignment	112/302
D. L. Y., Inc	Betty Jean Stalnaker & Rosalee Roberts	Assignment	132/565
Betty Jean Stalnaker & Rosalee Roberts	R & S Gas Company	Assignment	147/548
R & S Gas Company	BET-RO Inc	Assignment	147/554
BET-RO Inc	Roberts Energy Corporation	Assignment	240/36
<b>Roberts Energy Corporation</b>	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>329/138</b>
<b><u>Della M. Shepler, et al Lease:</u></b>			
Della M. Shepler, et al	Alton Skinner	1/8	132/345
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	254/789
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>
<b><u>Eddy D. Beck Lease</u></b>			
<b>Eddy D. Beck</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>318/650</b>
<b><u>Carol S. Love Lease</u></b>			
Carol S. Love	Willard E. Ferrell	1/8	107/32
Willard E. Ferrell	Colleen F. Selsor	Will	42/15
Colleen F. Selsor	Bet-Ro, Inc	Assignment	196/651
Bet-Ro, Inc	Jesam Energy	Assignment	239/165
Jesam Energy	Roberts Energy	Assignment	239/564
Roberts Energy	Key Oil Company	Assignment	254/588
Key Oil Company	Antero Resources Appalachian Corporation	Name Change	15/705
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>
<b><u>C. Dale Sims, et ux Lease:</u></b>			
C. Dale Sims, et ux	Chase Petroleum, Inc	1/8	146/730
Chase Petroleum, Inc	Continental Reserves 1983-1	Assignment	176/835
Continental Reserves 1983-1	Abarta Oil and Gas Company, Inc.	Assignment	247/569
<b>Abarta Oil and Gas Company, Inc.</b>	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>311/111</b>
<b><u>Belle Martin, et al Lease:</u></b>			
Belle Martin, et al	Alton Skinner	1/8	132/663
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	254/789
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b>Elizabeth Hart Lease:</b>			
Elizabeth Hart	John M. Walton	1/8	108/384
John M. Walton	Allstate Securities, INC	Assignment	118/377
Allstate Securities, INC	B & L Oil Company	Assignment	121/491
B & L Oil Company	Waco Oil and Gas Company Inc	Assignment	181/614
Waco Oil and Gas Company Inc	Ashland Inc	Assignment	221/1
Ashland Inc	Ashland Exploration INC	Assignment	222/169
Ashland Exploration INC	Blazer Energy Corporation	Assignment	225/170
Blazer Energy Corporation	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
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>
<b>Charles E. Nicholson Lease:</b>			
Charles E. Nicholson	Key Oil Company	1/8	230/274
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	258/509
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>
<b>William F. Prunty Lease:</b>			
William F. Prunty	Farr Enterprises	1/8	182/810
Farr Enterprises	Key Oil	Assignment	224/545
Key Oil	Antero Resources Appalachian Corporation	Assignment	256/488
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>
<b>C.O. Wise, et al Lease</b>			
C.O. Wise, et al	W. D. Gribble	1/8	79/209
W. D. Gribble	Carolyn E. Farr	Will	3/97
Carolyn E. Farr	Carolyn E. Farr trust by its trustee Clarence E Sigley	Deed	220/233
Carolyn E. Farr trust by its trustee Clarence E Sigley	Antero Resources Appalachian Corporation	Assignment	223/509
<b>Antero Resources Appalachian Corporation</b>	<b>Antero Resources Corporation</b>	<b>Name Change</b>	<b>15/705</b>
<b>Archie D. Zinn, et ux Lease:</b>			
Archie D. Zinn, et ux	Alton Skinner	1/8	132/394
Alton Skinner	Crystal G. Skinner and Desari S. Garrett	Assignment	216/391
Crystal G. Skinner and Desari S. Garrett	DC Petroleum	Assignment	247/245
<b>DC Petroleum and Chase Petroleum</b>	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>254/133</b>

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West Virginia Department of Environmental Protection

**\*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.**

10/20/2023

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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
<u>Willa G. Nicholson Lease</u>				
	Willa G. Nicholson	Clarence W. Mutschelknaus	1/8	146/36
	Clarence W. Mutschelknaus	Alton Skinner	Assignment	162/16
	Alton Skinner	Alton L. Skinner, II, Crystal G. Skinner and Desari S. Garrett	Will	216/391
	Alton L. Skinner, II, Crystal G. Skinner and Desari S. Garrett	DC Petroleum	Assignment	170/583
	DC Petroleum	Antero Resources Appalachian Corporation	Assignment	254/133
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	15/705

**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  
Its: Senior Vice President of Land