

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 26, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for ECKLEBERRY 2H 47-103-03493-00-00

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.

ames A. Mar

Operator's Well Number: ECKLEBERRY 2H Farm Name: JAMES ALLEN SELL U.S. WELL NUMBER: 47-103-03493-00-00 Horizontal 6A New Drill Date Modification Issued: 09/26/2022

Promoting a healthy environment.

4710303493



September 2, 2022

West Virginia Department of Environmental Protection RECEIVED Office of Oil and Gas Office of Oil and Gas Attn: Mr. Taylor Brewer 601 57th Street Charleston, WV 25304

Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

SEP 7 2022

WV Department of Environmental Protection

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modification for approved well on the existing Furbee Pad; Eckleberry Unit 2H.

Attached you will find the following:

- Revised Forms WW-6B
- Revised Forms WW-6A1
- A **Revised Mylar Plats**
- AORs P

If you have any questions please feel free to contact me at (303) 357-7182.

Thank you in advance for your consideration.

Sincerely,

Mallory Stanton Permitting Manager Antero Resources Corporation

Enclosures



API NO. 47-103 _ 03493

WW-6B (04/15)

OPERATOR WELL NO. Eckleberry Unit 2H MOD Well Pad Name: Furbee Pad

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

1) Well Operator: Anter	ro Resources Corpora	494507062	013-Wetzel	Green	Pine Grove 7.5'
· · · ·		Operator ID	County	District	Quadrangle
2) Operator's Well Numl	ber: Eckleberry Unit 2H	MOD Well P	ad Name: Furbe	e Pad	
3) Farm Name/Surface C	wner: James Allen Se	Public Re	oad Access: Fur	bee Ridge	Road
4) Elevation, current grou	und: 1240' E	levation, propose	d post-constructi	on: ~1212	2'
5) Well Type (a) Gas Other	X Oil	Un	derground Stora	ge	
(b)If Gas	s Shallow X Horizontal X	Deep			-
6) Existing Pad: Yes or N	No No		· · · · · · ·		
7) Proposed Target Form Marcellus Shale: 7600'	ation(s), Depth(s), Antio	and the second se			
8) Proposed Total Vertic	al Depth: 7600' TVD				
9) Formation at Total Ve		S			
0) Proposed Total Meas	sured Depth: 29100' N	ND 🖊			
1) Proposed Horizontal	Leg Length: 17160.4	1			
2) Approximate Fresh V	Vater Strata Depths:	575' -			
 Method to Determine Approximate Saltwar 	i i i i i i i i i i i i i i i i i i i	4710330897000	00 ~		
15) Approximate Coal Sector	······································				
6) Approximate Depth t		ine, karst, other);	None Anticipa	ted	
17) Does Proposed well 1 directly overlying or adja	location contain coal sea		No	0	RECEIVED ffice of Oil and Gas
(a) If Yes, provide Min	e Info: Name:				WV Department of ironmental Protection
	Depth:			CIIV	in officient and in the soliding
	Seam:				
	Owner:				

API NO. 47-<u>103</u>-<u>03493</u>

OPERATOR WELL NO. <u>Eckleberry Unit 2H MOD</u> Well Pad Name: <u>Furbee Pad</u>

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	Weight per ft. (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	79#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	625	625	CTS, 651 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	29100	29100	CTS, 5967 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Kimel L. Shoyrolde 9-22-22

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.375"	2250	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"	14,360	2500	Class G/H	~1.18
Tubing	2-3/8"	4.778"	0.19"	11,200			41 m.47
Liners							

PACKERS

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



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

Drill, perforate, fracture a new horizontal shallow well and complete 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): 30.09 acres

22) Area to be disturbed for well pad only, less access road (acres): 13.86 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% calcium 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.

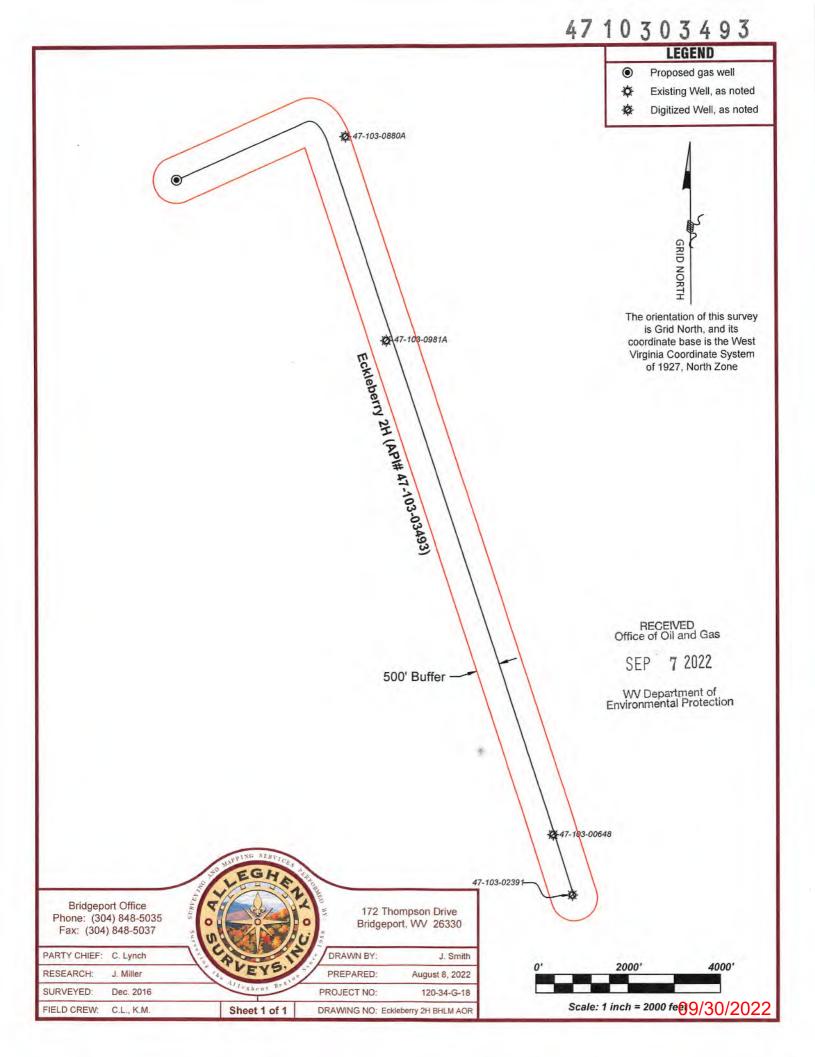
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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.

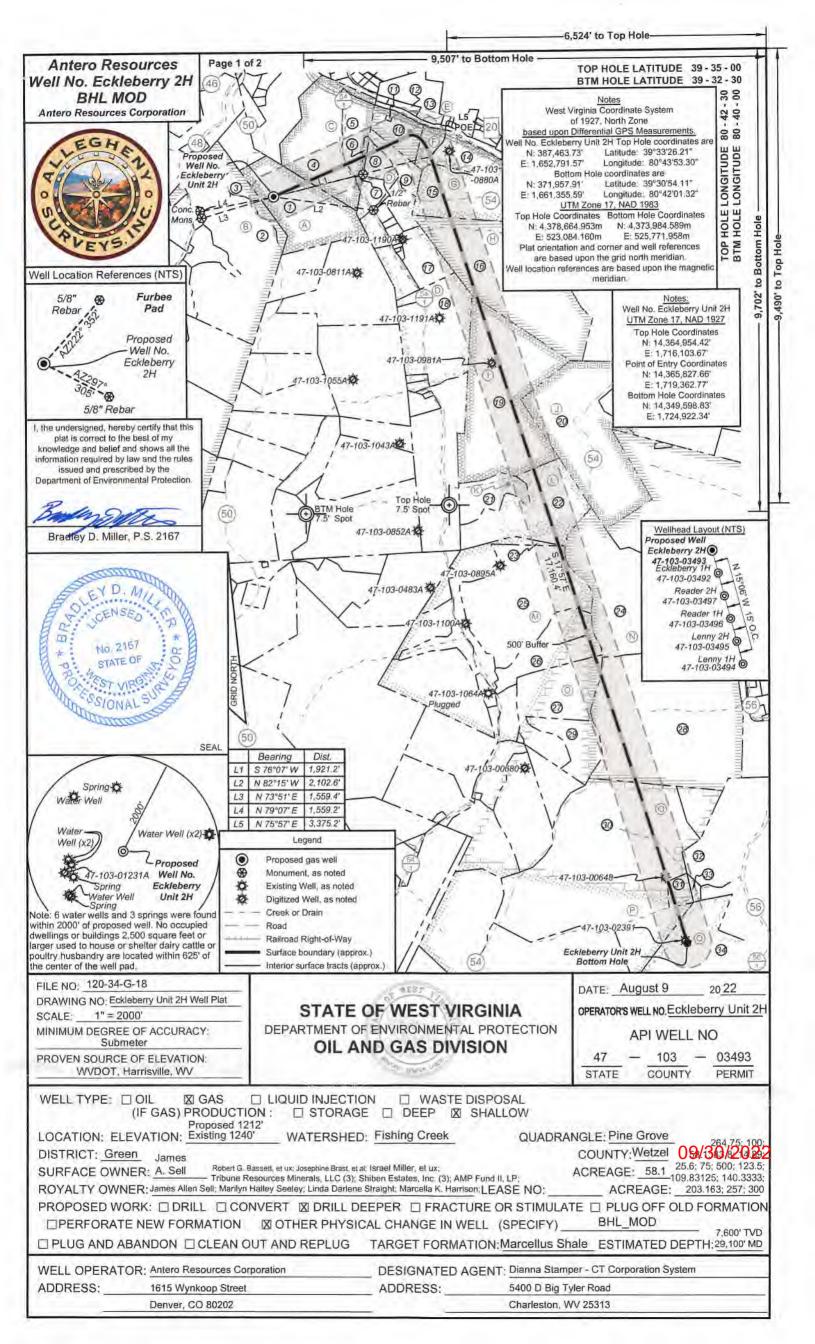
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls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

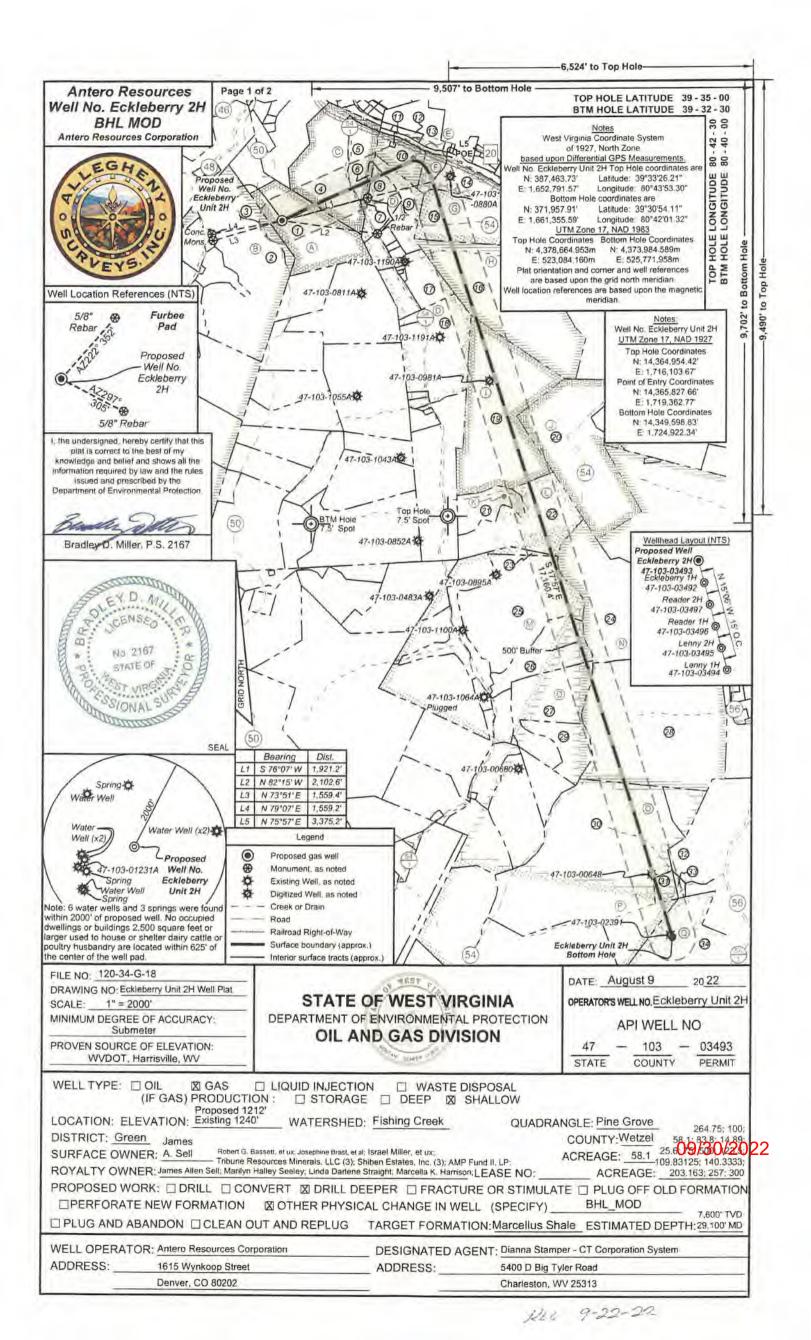
*Note: Attach additional sheets as needed.





UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
4710330880000D	C A LONG	5442	HOPE NATURAL GAS	HOPE NATURAL GAS	2,805		Big Injun, Gordon	Weir, Benson, Alexander
47103309810000	LOT MARTIN 1	1343	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,508		Gordon	Weir, Benson, Alexander
47103006480000	JOSEPHINE BRAST	6	DIVERSIFIED PROD LLC	CONSOL GAS SUPLY CRP	2,830		Big Injun, Gordon	Weir, Benson, Alexander
47103023910000	MILLER ISRAEL	7	ASCENT RESOURCES-MAR	EAST RESOURCES	3,260	2975 - 2986	Gordon, Fourth, Fifth, Bayard	Weir, Benson, Alexander





Antero Resources Well No. Eckleberry 2H BHL MOD Antero Resources Corporation	Page 2 of 2		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Owner James Allen Sell Ross Bucher James Allen Sell Charles R. & Kay L. Blair Clarence L. & Carol J. Lancaster Bradford D. Highley Clarence & Carol Lancaster Bradford Highley James Straight James Straight James Straight James Straight Clarence & Carol Lancaster Bradford Highley James Straight James Straight James Straight Clarence & Carol Lancaster Bradford Highley James Straight James Straight Linda D. Straight Raye Anne Lloyd Raye Anne Lloyd Raye Anne Lloyd Sebastian, Jr. & Marcella Harrison Coastal Forest Resources Heartland Forest Land Fund VII LP Donna Bassett Leslie & Georgia Bassett Heartland Forest Land Fund VII, LP Heartland Forest Land Fund VII, LP Heartland Forest Land Fund VII, LP EIP III, West Virginia LLC Robert Bassett Sara Ruth Cool & Peggy Ann Dawson Supplemental Needs Trust Matthew D. Bassett, et al	445/660 18.01 E 281/94 25.37 F 444/105 90.00 G 7 431/936 123.50 H 1 319/394 66.00 J J 431/936 120.33 K 7 431/936 120.00 L L 431/936 20.90 M 7 431/936 20.90 M 7 431/936 20.90 M 7 463/193 69.00 N 0 371/32 126.74 O Q 421/365 97.18 Q 1	Leases James Allen Sell William R. Stainaker Marilyn Halley Seeley Tribune Resources Minerals, LLC Linda Darlene Straight Marcella K. Harrison Tribune Resources Minerals, LLC Shiben Estates, Inc. AMP Fund II, LP Thomas Cunningham, et ux Tribune Resources Minerals, LLC Robert G. Bassett, et ux Tribune Resources Minerals, LLC Shiben Estates, Inc. Josephine Brast, et al Shiben Estates, Inc. Israel Miller, et ux
26 20-14.2 27 20-14.1 28 20-15	Coastal Forest Resources Co. Coastal Forest Resources Co. Coastal Forest Resources Co.	444/105 37.40 444/105 49.25 444/105 198.00	
29 20-21 30 20-37 31 20-37.1	Coastal Forest Resources Co. Coastal Forest Resources Co. Douglas & Debra Williams	444/105 29.00 444/105 246.84 472/115 6.26	
32 21+15 33 20-49 34 23-1	Douglas & Debra Williams Douglas & Debra Williams Israel Miller Estate	385/159 57.06 472/115 2.00 417/744 100.00	
FILE NO: 120-34-G-18 DRAWING NO: Eckleberry Unit 2H We SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY Submeter PROVEN SOURCE OF ELEVATION WVDOT, Harrisville, WV	CE DEPARTMENT OF	OF WEST VIRGINIA F ENVIRONMENTAL PROTECTION ND GAS DIVISION	DATE: <u>August 9</u> 20.22 OPERATOR'S WELL NO. <u>Eckleberry Unit 2</u> API WELL NO <u>47</u> – <u>103</u> – <u>03493</u> STATE <u>COUNTY</u> PERMIT
WELL TYPE: OIL XC	GAS LIQUID INJECTIO	DN □ WASTE DISPOSAL E □ DEEP ⊠ SHALLOW	Contra Countra Periviti
LOCATION: ELEVATION: Exi DISTRICT: Green James SURFACE OWNER: A. Sell ROYALTY OWNER: James Allen S PROPOSED WORK: DRILL	Robert G. Bassett, et ux; Josephine Brast, et a – Tribune Resources Minerals, LLC (3); S Sell; Marilyn Halley Seeley; Linda Darlene – CONVERT 🖾 DRILL DE	: Fishing Creek QUADR/	TE D PLUG OFF OLD FORMATIO
PERFORATE NEW FORM PLUG AND ABANDON	LEAN OUT AND REPLUG	TARGET FORMATION Marcellus S	hale ESTIMATED DEPTH-29 100' MI
PLUG AND ABANDON		TARGET FORMATION: Marcellus S	

Operator's Well Number Eckleberry 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
	: James Allen Sell Lease mes Allen Sell	Antero Resources Corporation	1/8+	258A/0467
/м	: Marilyn Halley Seeley Lease Iarilyn Halley Seeley QT Production Company	EQT Production Company Antero Resources Corporation	1/8 Assignment	148A/0831 230A/0801
Tr	: Tribune Resources Minerals, LLC Lease ibune Resources Minerals, LLC ibune Resources, LLC	Tribune Resources, LLC Antero Resources Corporation	1/8 Assignment	218A/0791 219A/0322
	<u>Linda Darlene Straight Lease</u> nda Darlene Straight	Antero Resources Corporation	1/8+	179A/0867
/-	<u>Marcella K. Harrison Lease</u> Iarcella K. Harrison	Antero Resources Corporation	1/8+	274A/0761
	: Tribune Resources Minerals, LLC Lease ibune Resources Minerals, LLC	Antero Resources Corporation	1/8+	248a/0634
	<u>: Shiben Estates, Inc Lease</u> niben Estates, Inc.	Antero Resources Corporation	1/8+	202A/0238
	<u>AMP Fund II, LP Lease</u> MP Fund II, LP	Antero Resources Corporation	1/8+	255A/0685
	<u>Robert G. Bassett, et ux Lease</u> obert G. Bassett, et ux	Antero Resources Corporation	1/8+	212A/0094
Tr	I: Tribune Resources Minerals, LLC Lease ibune Resources Minerals, LLC ibune Resources, LLC	Tribune Resources, LLC Antero Resources Corporation	1/8+ Assignment	218A/0803 219A/0322
Jo Sc Cc Cc Cf Ea Ec Ec	: Josephine Brast, et al Lease osephine Brast, et al outh Penn Oil Co. ope Natural Gas Company onsolidated Gas Supply Corporation onsolidated Gas Transmission Corporation NG Transmission Corporation astern States Oil & Gas Inc quitable Production-Eastern States Inc quitable Production Company QT Production Company	South Penn Oil Co. Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation Eastern States Oil & Gas Inc Equitable Production-Eastern States Inc Equitable Production Company EQT Production Company Tribune Resources, LLC	1/8 Assignment Assignment Assignment Name Change Merger Name Change Assignment	0049/0591 009A/0230 0233/0387 066A/0069 0013/0151 076A/0232 0013/0014 0013/0014 0013/0014 09/3 07/24/06232

Operator's Well Number Eckleberry 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
Tribune Resources, LLC	Antero Resources Corporation	Assignment	219A/0322
<u>N: Shiben Estates, Inc. Lease</u> Shiben Estates, Inc.	Antero Resources Corporation	1/8+	198A/0540
✓ <u>O: Josephine Brast, et al Lease</u>			
Josephine Brast, et al	South Penn Oil Co.	1/8	0049/0591
South Penn Oil Co.	Hope Natural Gas Company	Assignment	009A/0230
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
Eastern States Oil & Gas Inc	Equitable Production-Eastern States Inc	Name Change	0013/0014
Equitable Production-Eastern States Inc	Equitable Production Company	Merger	0013/0014
Equitable Production Company	EQT Production Company	Name Change	0013/0014
<u>/P: Shiben Estates, Inc. Lease</u>			
Shiben Estates, Inc.	Antero Resources Corporation	1/8+	198A/0540

WW-6A1 (5/13)

Operator's Well No. Eckleberry 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:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
/ Q: Israel Miller, et ux Lease				
	Israel Miller, et al	South Penn Oil Co.	1/8	0049/052
	South Penn Oil Co.	Hope Natural Gas Company	Assignment	009A/0230
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
	Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
	CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
	Eastern States Oil & Gas Inc	Equitable Production-Eastern States Inc	Name Change	0013/0014
	Equitable Production-Eastern States Inc	Equitable Production Company	Merger	0013/0014
	Equitable Production Company	EQT Production Company	Name Change	0013/0014
	EQT Production Company	Tribune Resources, LLC	Assignment	179A/0653
	Tribune Resources, LLC	Antero Resources Corporation	Permission to Permit	Attached

*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.

RECEIVED Office of Oil and Gas WV Division of Water and Waste Management WV Division of Natural Resources WV Division of Highways 7 2022 SEP 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:	Antero Resources Corporation			
By:	Tim Rady (Maile			
Its:	Senior Vice President - Land			

Page 1 of 1

WV De vartment of Environmental Protection

4710303493

Execution Version

September 1, 2022

Mike Lipari Tribune Resources, LLC Tribune Resources Minerals, LLC 3861 Ambassador Caffery Parkway, Suite 600 Lafayette, Louisiana 70503

RE: Permission to Permit and Drill

Wetzel County, West Virginia

Dear Mr. Lipari,

Antero Resources Corporation ("Antero") hereby requests permission from Tribune Resources, LLC ("Tribune Resources") and Tribune Resources Minerals, LLC ("Tribune Minerals," and together with Tribune Resources, "Tribune") to proceed with Antero's plans to drill one or more horizontal wells in, under, and through certain properties subject to oil and gas interests owned or controlled by Tribune located in Wetzel County, West Virginia, as more particularly described on Exhibit A to this letter agreement (the "O&G Interests"), and insofar and only insofar as such O&G Interests are located within the Units as more particularly described on Exhibit B (the "Units") and further insofar and only insofar as to the Marcellus Leasehold Rights (the "Properties"), pursuant to the terms and conditions of this letter agreement. Antero and Tribune are currently parties to an Acreage Trade Agreement dated December 20, 2021 (as amended from time to time, the "Trade Agreement"), which includes the Properties. Capitalized terms not otherwise defined herein shall have the meanings ascribed to them in the Trade Agreement.

In order to generate mutual goodwill between Tribune and Antero, and for one hundred dollars (\$100.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, subject to the terms and conditions of this letter agreement and the Trade Agreement, Tribune hereby grants Antero the right to apply for and obtain all applicable governmental permits for the drilling of one or more wellbore laterals in, under, and through the Properties (collectively, "*Wells*") and to drill, complete and produce such Wells.

Antero hereby agrees to release, protect, indemnify, defend and hold harmless Tribune from and against any claims, expenses, damages, injuries, claims or obligations or liabilities (including reasonable attorneys' fees) that may be brought by any third party against Tribune or its Affiliates to the extent arising out of Antero's drilling or other operations pursuant to this letter agreement and that arise on or after the date of this letter agreement through the Expiration Date (as defined below). This paragraph shall survive (a) the Closing and the assignment or lease, as applicable, related to the Properties, or (b) any termination of all or any part of this letter agreement.

RECEIVED Office of Oil and Gas

SEP 7 2022

WV Department of Environmental Protection

Nothing in this letter agreement will diminish any current or future rights of Tribune in the Properties or other properties. This letter agreement and the rights and obligations of Tribune and Antero hereunder will terminate (on a Property-by-Property basis) upon the earliest of (I) if and when Antero and Tribune consummate the Closing of the Trade Agreement with respect to such Property and (II) the date this letter agreement terminates with respect to such Property as provided in the Trade Agreement. ("Expiration Date").

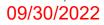
If the above meets your approval, please execute in the space provided below and return one signed copy to the letterhead address. Should you have any questions, please contact Jared Hurst at (303) 357-6835.

[Signature Pages Follow.]

RECEIVED Office of Oil and Gas

SEP 7 2022

WV Department of Environmental Protection



Sincerely,

ANTERO RESOURCES CORPORATION

By: 0 JCH Name: Tim Rady

Title: Senior Vice President - Land

Office of Oil and Gas

WV Department of Environmen All Protection

Signature Page to Letter Agreement

09/30/2022

AGREED TO AND ACCEPTED:

TRIBUNE RESOURCES, LLC

By:

Name: Richard G. Zepernick, Jr. Title: President & CEO

TRIBUNE RESOURCES MINERALS, LLC

By:

Name: Richard G. Zepernick, Jr. Title: President & CEO



WV Deix ament of Environmental Protection

Signature Page to Letter Agreement

09/30/2022

EXHIBIT A PROPERTIES

[See attached.]

RECEIVED Office of Oil and Gas SEP 7 2022

WV Depy-tment of Environmental Protection

Appendix A to Fifth Amendment to Acreage Trade Agreement

09/30/2022

Ex	hi	bi	t	A

Lessor	Lessee	Lease Date	Lease Gross Acres	State	County	District	Book	Page	TMP
Israel Miller and Elizabeth Miller, his wife	South Penn Oil	9/1/1896	100.00000	wv	Wetzel	Center	49	32	5-23-1
Shiben Estates, Inc.	Antero Resources Corporation	10/17/2017	264.75000	WV	Wetzel	Center	198A	540	p/o 5-20-37, 5-20-37.1
Josephine Brast, et al	South Penn Oil	12/15/1896	300.00000	wv	Wetzel	Green	49	591	p/o 5-20-37
M. A. Brast	South Penn Oil	6/18/1897	300.00000	wv	Wetzel	Green	53	204	p/o 5-20-37

WV Denortment of Environmental Protection

Office of Oil and Gas SEP 7 2022

EXHIBIT B UNITS

Operator	Unit Name	Pooling Declaration (Book/Page)
Antero Resources Corporation	Eckleberry Unit	289A/51

RECEIVED Office of Oil and Gas

SEP 7 2022

WV Department of Environmental Protection



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Modification Horizontal H6A Well Work Permits API: (47-103-03493)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Sep 26, 2022 at 3:10 PM @shalepro.com> "Greynolds

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>, "Blevins, Cragin" <cragin.blevins@wv.gov>

I have attached a copy of the newly issued well permit numbers:

47-103-03493 - ECKLEBERRY 2H

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

BIR-26 Blank.pdf

47-103-03493 - Copy.pdf 1432K