

west virginia department of environmental protection

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

Thursday, August 4, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

### ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

#### DENVER, CO 80202

Re: Permit Modification Approval for CLUTTER UNIT 2H 47-095-02782-00-00

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.

James A. Martin

Chief

Operator's Well Number:CLUTTER UNIT 2HFarm Name:ELDON J & RUTH A HELMANU.S. WELL NUMBER:47-095-02782-00-00Horizontal 6ANew DrillDate Modification Issued:8/4/2022

Promoting a healthy environment.

API NO. 47-095 \_ 02782

OPERATOR WELL NO. Clutter Unit 2H MOD Well Pad Name: Eldon Pad

WW-6B (04/15)

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

1) Well Onerat	tor: Antero R	esources (	Corporat	494507062	095 - Tylei	Ellsworth	Middlebourne 7.5'
1) Hon open			- Ball	Operator ID	County	District	Quadrangle
2) Operator's '	Well Number:	Clutter Uni	t 2H MO	D Well	Pad Name: Eld	on Pad	
3) Farm Name	/Surface Owne	r: Eldon J. &	Ruth A H	elman Public I	Road Access: A	llen Run Rd	
4) Elevation, c	urrent ground:	880' as	built Ele	evation, propos	ed post-constru	ction:	
5) Well Type	(a) Gas X Other	-	Oil	U	nderground Sto	rage	
	(b)If Gas S	hallow	X X	Deep	۱. <u> </u>		-
6) Existing Pa	d: Yes or No	Iorizontal (es	^				
7) Proposed Ta	arget Formation	n(s), Depth		• · · · · · · · · · · · · · · · · · · ·	ss and Expected		
8) Proposed T	otal Vertical De	epth: 6400	)' TVD				
	at Total Vertica		Aarcellus				
10) Proposed '	Total Measured	Depth: 2	26,200'			_	
11) Proposed 1	Horizontal Leg	Length: 1	7,658.3	2			
12) Approxim	ate Fresh Wate	r Strata Dej	oths:	156'			
13) Method to	Determine Fre	sh Water D	epths: 4	7095009120000 Offse	t well records. Depths h	nave been adjusted	according to surface elevations
14) Approxim	ate Saltwater D	epths: 16	76'				
15) Approxim	ate Coal Seam	Depths: N	one Antic	pated			
16) Approxim	ate Depth to Po	ssible Void	l (coal mi	ne, karst, other	): None Antici	pated	
	osed well locat			ns Yes	1	No X	
(a) If Yes, pr	ovide Mine Inf	o: Name:					
		Depth:					
		Seam:					RECEIVED Office of Oil and Gas
		Owner	s				JUL 2 5 2022
							WV Department of

Environmental Protection

Page 1 of 3

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API NO. 47-\_095 \_ 02782 OPERATOR WELL NO. Clutter Unit 2H MOD Well Pad Name: Eldon Pad

### 18)

### CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (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#	300'	300'	CTS, 313Cu. Ft.
Coal	9-5/8"	New	J-/K55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	26200'	26200'	CTS, 5685 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	<u>Size (in)</u>	<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	~1.8
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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JUL 2 5 2022

WV Department of Environmental Protection Page 2 of 3

SM

WW-6B (10/14) API NO. 47-\_095 - 02782 OPERATOR WELL NO. Clutter Unit 2H MOD Well Pad Name: Eldon 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): 35.04 acres

22) Area to be disturbed for well pad only, less access road (acres): 12.65 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.

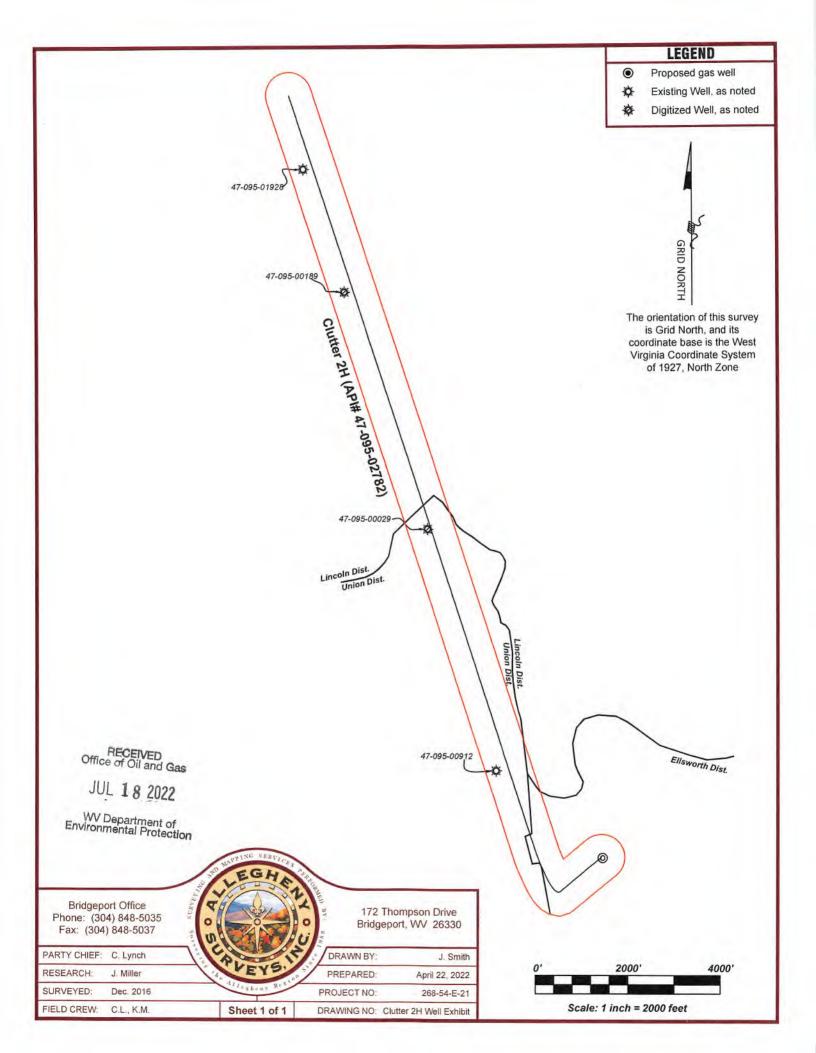
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

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.

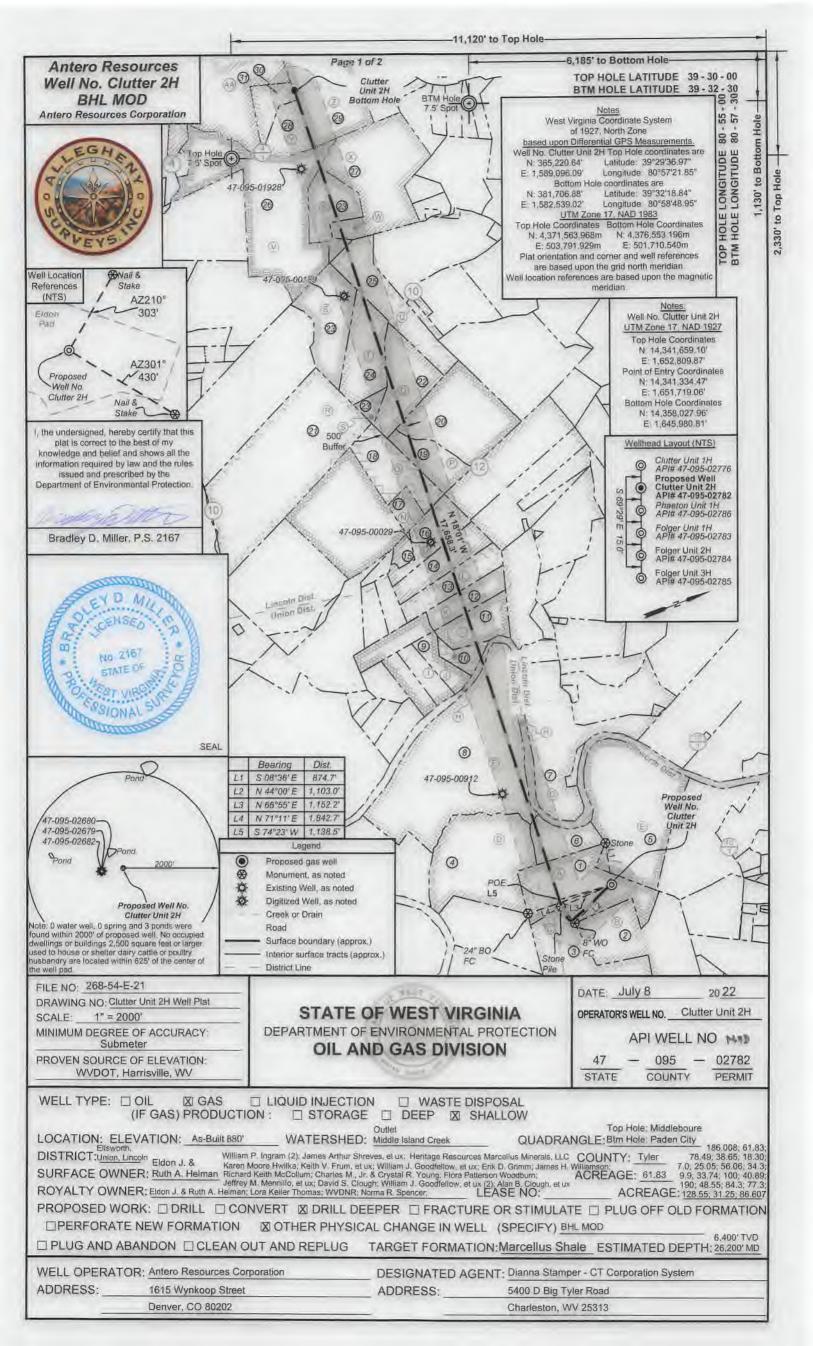
RECEIVED Office of Oil and Gas Page 3 of 3 JUL 2 5 2022

WV Department of Environmental Protection

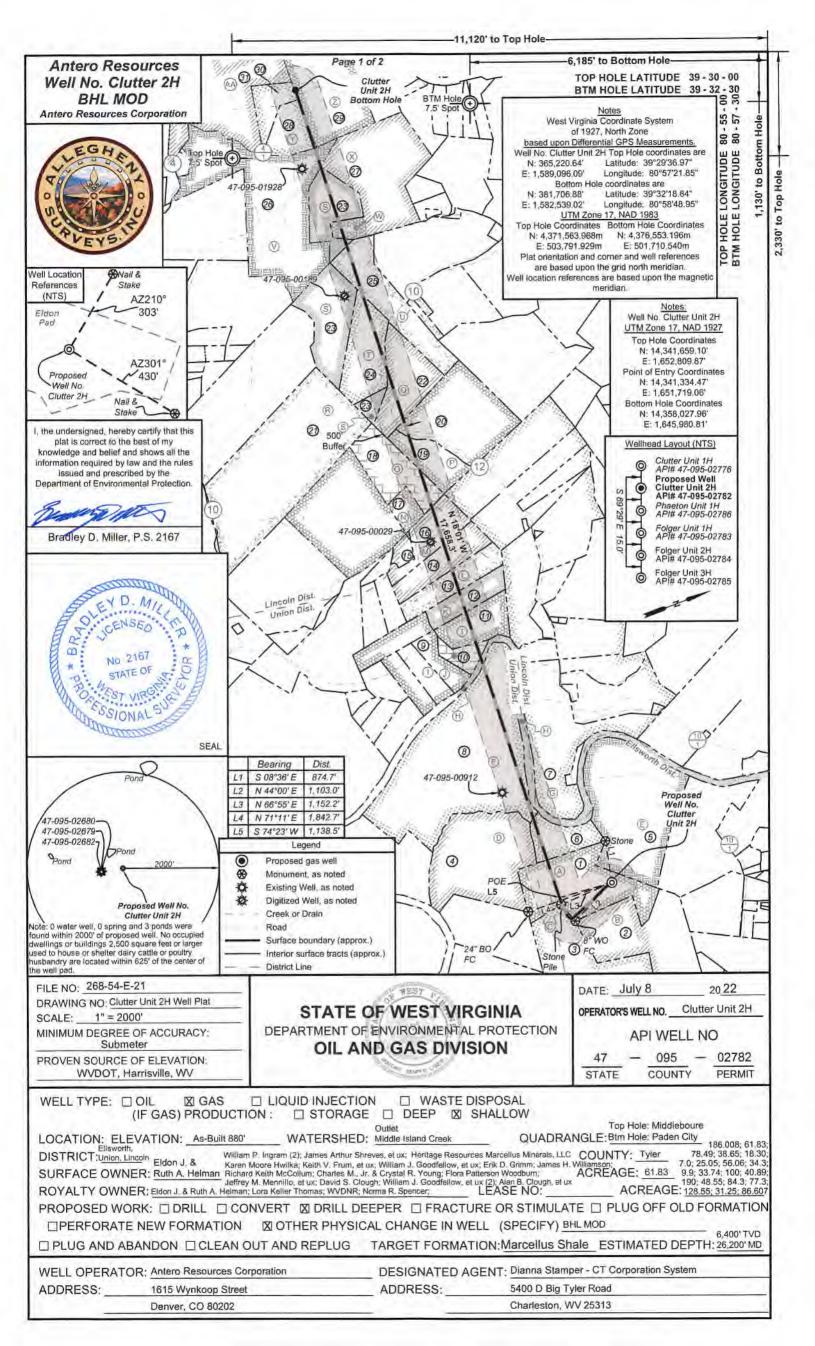


UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf <sup>°</sup> d
47095009120000	HICKMAN CHARLES	1	LAUDERMAN OIL & GAS	LAUDERMAN OIL & GAS	4,558	4068 - 4342	Huron	Gordon, Weir, Alexander, Berea
47095000290000	ELI J WELLS & SONS	1			1,869		Big Injun	Gordon, Weir, Alexander, Berea
47095001890000	CATH FOURNIER/LECHIEN	1	GENERAL OIL CO INC	GENERAL OIL CO INC	1,800		Big Injun	Gordon, Weir, Alexander, Berea
47095019280000	SHREVES	703	ANTERO RESOURCES CORPORATION	TRIAD RESOURCES INC	6,328	6135 - 6203	Marcellus	

Office of Oil and Gas JUL 1.8 2022 WV Department of Environmental Protection



Antero Resources Well No. Clutter 2H BHL MOD Antero Resources Corporation	age 2 of 2	
1     19-1     Eldon J. & Ri       2     19-42     Carol       3     10-10     Lora K.       4     6-2     Eldon J. & Ri       5     13-10     Eldon J. & Ri       6     6-1.1     Eldon J. & Ri       7     15-18     B.F.       8     6-1     Eldon J. & Ri       9     6-6.11     David S       10     6-6.60     Jeffrey M. &       11     6-6.9     David S       12     6-6.8     Alan B. & Tr       13     6-6.6     Richard Kei       14     6-6.5     Crystal R. & Cha       15     6-6     Crystal R. & Cha       16     6-6.4     Crystal R. & Cha       17     15-3     Dena       18     15-1     S.P. & Oto W       19     12-55     John A. & Milar       20     12-49     Estella J. & Williar       23     12-21     Keith V. & Ba       24     12-46     Keith V. & Ba       25     12-4	Iner     Bk/Pg     Acres       Jth A. Helman     383/761     61.83       J. Cox     334/298     142.00       Thomas     201/359     307.05       Jth A. Helman     383/761     83.13       Jth A. Helman     383/761     96.82       Jth A. Helman     383/761     169.00       Kile     174/412     70.00       Jth A. Helman     383/761     169.00       Clough     351/752     12.40       Jill S. Mennillo     368/770     9.90       Clough     351/712     24.54       aci L. Clough     354/306     18.30       th McCollum     362/348     25.05       artes J. Young, Jr.     368/773     5.06       artes J. Young, Jr.     368/773     5.06 <	Leases     A   Eldon J. & Ruth A. Helman     B   Carol J. Cox     C   Lora Keller Thomas     D   Gary C. & Maryjane Richards     E   Ruth H. Wells     F   Norma R. Spencer     G   Mary Ann Devine     H   WVDNR     1   David S. Clough     J. Jeffrey M. Mennillo, et ux     K   Alan B. Clough, et ux     L   Richard Keith McCollum     M   Charles M. Jr. & Crystal R. Young     N   Dena Raye Grimes     O   Flora Patterson Woodburn     P   Karen Moore Hwilka     Q   William J. Goodfellow, et ux     R   Margaret Conaway-Torok     S   William P. Ingram     T   Keith V. Frum, et ux     U   William J. Goodfellow, et ux     V   James Arthur Shreves, et ux     W   Heritage Resources Marcellus     Minerals, LLC   X     X   William P. Ingram     Y   James H. Williamson     Z   Erik D. Grimm     AA   Robert L. Sherman <
FILE NO: 268-54-E-21 DRAWING NO: Clutter Unit 2H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	STATE OF WEST DEPARTMENT OF ENVIRONMEN OIL AND GAS DI	TAL PROTECTION API WELL NO. 1949
WELL TYPE: OIL GAS (IF GAS) PRODUCTI LOCATION: ELEVATION: As-Built 880' DISTRICT: Union, Lincoln SURFACE OWNER: Ruth A. Helman ROYALTY OWNER: Eldon J. & Ruth A. Helman	ON : STORAGE DEEP Outlet WATERSHED: Middle Island Creek Nore Hwilka; Keith V. Frum, et ux; William J. Goodfellov d Keith McCollum; Charles M., Jr. & Crystal R. Young; Fi M. Mennillo, et ux; David S. Clough; William J. Goodfellor Lora Keller Thomas; WVDNR; Norma R. Spencer; NVERT X DRILL DEEPER FRAC X OTHER PHYSICAL CHANGE IN DUT AND REPLUG TARGET FORM	Top Hole: Middleboure QUADRANGLE: Btm Hole: Paden City 186.008; 61.8 sources Marcellus Minerals, LLC COUNTY: Tyler 78.49; 38.65; 18.3 7.0; 25.05; 56.06; 43. 99.9; 33.74; 100; 44. w, et ux (2); Alan B. Clough, et ux LEASE NO: ACREAGE: 128.55; 31.25; 86.60 CTURE OR STIMULATE I PLUG OFF OLD FORMATIO



Antero Resources Well No. Clutter 2H BHL MOD Antero Resources Corporation	Page 2 of 2	
E G H C L L L L L L L L L L L L L L L L L L		
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WELL TYPE: OIL GAS (IF GAS) PRODUC LOCATION: ELEVATION: As-Built 88 DISTRICT: Union, Lincoln Eldon J. & Ka SURFACE OWNER: Ruth A. Helman Rito Jar ROYALTY OWNER: Eldon J. & Ruth A. Helm	Outlet   Middle Island Creek.     Middle Island Creek.   Middle Island Creek.     Middle Island Creek.	DSAL LLOW Top Hole: Middleboure QUADRANGLE: <u>Btm Hole: Paden City</u> 186.008; 61. Collus Minerals, LLC COUNTY: <u>Tyler</u> D. Grimm; James H. Williamson; Woodburn; ACREAGE: <u>61.83</u> Alan B. Clough, et ux Alan B. Clough, et ux ASE NO: ACREAGE: <u>128.55; 31.25; 86.66</u> OR STIMULATE □ PLUG OFF OLD FORMATIC
WELL OPERATOR: Antero Resources ADDRESS: 1615 Wynkoop Stre	Corporation DESIGNATED AGEN	T: Dianna Stamper - CT Corporation System 5400 D Big Tyler Road Charleston, WV 25313

Operator's Well Number

Clutter Unit 2H Full 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, e	etc.	Royalty	Book/Page
A: Eldon J. and Ruth A. Helman Lease Eldon J. and Ruth A. Helman	Antero Resources Corporation		1/8+	0427/0610
<u>C: Lora Keller Thomas Lease</u> Lora Keller Thomas	Antero Resources Corporation	RECEIVED Office of Oll and Gal	1/8+	0062/0581
A: Eldon J. and Ruth A. Helman Lease Eldon J. and Ruth A. Helman	Antero Resources Corporation	AUG 4 202	1/8+	0427/0610
F: Norma R. Spencer Lease Norma R. Spencer, Trustee of the Allan P. Spencer Living Trust	Antero Resources Corporation	WV Department Environmental Prot	of ection 1/8+	0564/0428
H: WVDNR Lease WVDNR	Antero Resources Corporation		1/8+	0175/0713
J: Jeffrey M. Mennillo, et ux Lease Jeffrey M. and Jill S. Mennillo Antero Resources Appalachian Corporation	Antero Resources Appalachian Co Antero Resources Corporation	rporation	1/8+ Name Change	0427/0753 <b>0557/0430</b>
I: David S. Clough Lease David S. Clough Antero Resources Appalachian Corporation	Antero Resources Appalachian Co Antero Resources Corporation	rporation	1/8+ Name Change	0421/0490 <b>0557/0430</b>
<u>K: Alan B. Clough, et ux Lease</u> Alan B. and Traci L. Clough Antero Resources Appalachian Corporation	Antero Resources Appalachian Co Antero Resources Corporation	rporation	1/8+ Name Change	0421/0488 <b>0557/0430</b>
L: Richard Keith McCollum Lease Richard Keith McCollum Antero Resources Appalachian Corporation	Antero Resources Appalachian Co Antero Resources Corporation	rporation	1/8+ Name Change	0422/0488 0557/0430
M: Charles M. Jr & Crystal R. Young Lease Charles M. Young Jr. and Crystal R. Young	Antero Resources Corporation		1/8+	0162/0395
O: Flora Patterson Woodburn Lease Flora Patterson Woodburn	Antero Resources Corporation		1/8+	0012/0585
<u>P: Karen Moore Hwilka Lease</u> Karen Moore Hwilka	Antero Resources Corporation		1/8+	0140/0773
Q: William J. Goodfellow, et ux Lease William J. Goodfellow and Estella Goodfellow	Antero Resources Corporation		1/8+	0598/0919

Operator's Well Number Clutter Unit 2H Full 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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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>T: Keith V. Frum, et ux Lease</u> Keith V. and Barbara L. Frum	Antero Resources Corporation	1/8+	0148/0151
<u>U: William J. Goodfellow, et ux Lease</u> William J. Goodfellow and Estella Goodfellow	Antero Resources Corporation	1/8+	0598/0919
<u>S: William P. Ingram Lease</u> William P. Ingram	Antero Resources Corporation	1/8+	0148/0145
<u>W: Heritage Resources Marcellus Minerals, LLC Lease</u> Heritage Resources Marcellus Minerals, LLC	Antero Resources Corporation	1/8+	0134/0541
<u>S: William P. Ingram Lease</u> William P. Ingram	Antero Resources Corporation	1/8+	0148/0145
<u>X: William P. Ingram Lease</u> William P. Ingram	Antero Resources Corporation	1/8+	0148/0145
V: James Arthur Shreves, et ux Lease James Arthur Shreves, et ux Triad Energy Corporation Triad Hunter, LLC Blue Ridge Mountain Resources Eclipse Resources I, LP SWN Production Company, LLC	Triad Energy Corporation Triad Hunter, LLC Blue Ridge Mountain Resources Eclipse Resources I, LP SWN Production Company, LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment Name Change 1/8	0349/0648 0371/0605 0104/0354 0104/0357 WVSOS <b>0349/0648</b>
<u>Y: James H. Williamson Lease</u> James H. Williamson	Antero Resources Corporation	1/8+	0155/0424

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market Đ the oil and gas from the Marcellus and any other formations completed with this well.

> RECEIVED Office of Oil and Gas

AUG 4 2022

WV Department of Environmental Protection WW-6A1 (5/13)

### 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
Z: Eric D. Grimm Lease	Eric D. Grimm	Antero Resources Corporation	1/8+	0134/0069

\*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.

### 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

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		
<b>RECEIVED</b> Office of Oil and Gas	By:	Tim Rady Tom Tech		
	Its:	VP of Land		
JUL 18 2022	•			

WV Department of Environmental Protection