

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

Monday, November 1, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

#### ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for ORNER UNIT 1H 47-103-03428-00-00

#### 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.

James A. Martin Chief

Operator's Well Number: Farm Name: U.S. WELL NUMBER: 47-103-03428-00-00 Horizontal 6A Date Modification Issued: 11/2/2021

Promoting a healthy environment.



Antero Resources 1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

October 11, 2021

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: James Martin 601 57<sup>th</sup> Street Charleston, WV 25304

Mr. Martin:

Antero Resources Corporation (Antero) would like to submit the following applications for modifications of well work permits to explore/develop the Marcellus Shale. Our Wetzel project is located in Wetzel County, WV. On the **existing Dogwood Pad are three (3) horizontal** shallow wells (Daags Unit 1H, Orner Unit 1H and Orner Unit 2H) that we are requesting approval to drill deeper to extend the laterals.

Attached you will find the following:

Permit Application packages

If you have any questions please feel free to contact me at (304) 842-4153 or by email at mhamsher@anteroresources.com.

RECEIVED Office of Oil and Gas

OCT 1 4 2021

WV Department of Environmental Protection

Thank you in advance for your consideration.

Sincerely,

Melissa Hamsher Permitting Agent Antero Resources Corporation

Enclosures

API NO. 47-<u>103</u>-03428

OPERATOR WELL NO. Orner Unit 1H Well Pad Name: Dogwood Pad

# STATE OF WEST VIRGINIA

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

1) Well Operat	or: Antero Re	sources	Corporat	49450 <sup>-</sup>	7062	103-Wetzel	Green	Pine Grove 7.5'
	-			Operat		County	District	Quadrangle
2) Operator's W	Vell Number: <u>C</u>	Orner Unit	: 1H		Well Pad	Name: Dogw	ood Pad	
3) Farm Name	Surface Owner	Dalliso	n Lumber	r Inc. p	ublic Road	d Access: <u>CO.</u>	Route 50	
4) Elevation, cu	urrent ground:	1308'	Ele	evation,	proposed p	post-construction	on:	
5) Well Type	(a) Gas X		_ Oil		Unde	rground Storag	je	
	Other							
	(b)If Gas Sl	allow	<u>X</u>		Deep			
	Н	orizontal	X					
6) Existing Pad	$\therefore$ Yes or No Y	es						
7) Proposed Ta Marcellus Sh	rget Formation ale: 7600' TVD,			*			~ /	
8) Proposed To	tal Vertical De	oth: 7600	)' TVD			-		
9) Formation at	Total Vertical	Depth:	Marcellus					
10) Proposed T	otal Measured	Depth: 2	27300' MI	כ				
11) Proposed H	lorizontal Leg I	ength: 1	5795'					
12) Approxima	te Fresh Water	Strata Dej	oths:	539'				
13) Method to 1	Determine Fres	n Water D	epths: 4	7-095-3	80941			
14) Approxima	te Saltwater De	pths: <u>23</u>	41' (47-0	95-309	41)			
15) Approxima	te Coal Seam E	epths: 8	15' (47-	103-3	1064)			
16) Approxima	te Depth to Pos	sible Void	l (coal mir	ne, karst	, other): <u>N</u>	Ione Anticipat	ed	
17) Does Propo directly overlyi				ns Ye	s	No	<u>x</u>	
(a) If Yes, pro	vide Mine Info	Name:						
		Depth:						
		Seam:						
		Owner	:					

API NO. 47- 103 - 03428

OPERATOR WELL NO. Orner Unit 1H Well Pad Name: Dogwood Pad

WW-6B (04/15)

#### 18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80	80	CTS, 218 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	589	589	CTS, 532 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#	27300	27300	6507 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners						1	
						Buyan tau 10-13-2	m 

ТҮРЕ	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.438"	1530	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"	12,630	9300	Leas-H/PC2 & Tai - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200	1		
Liners		100 100 11					

#### 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): 35.9

22) Area to be disturbed for well pad only, less access road (acres): 15.40

#### 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.

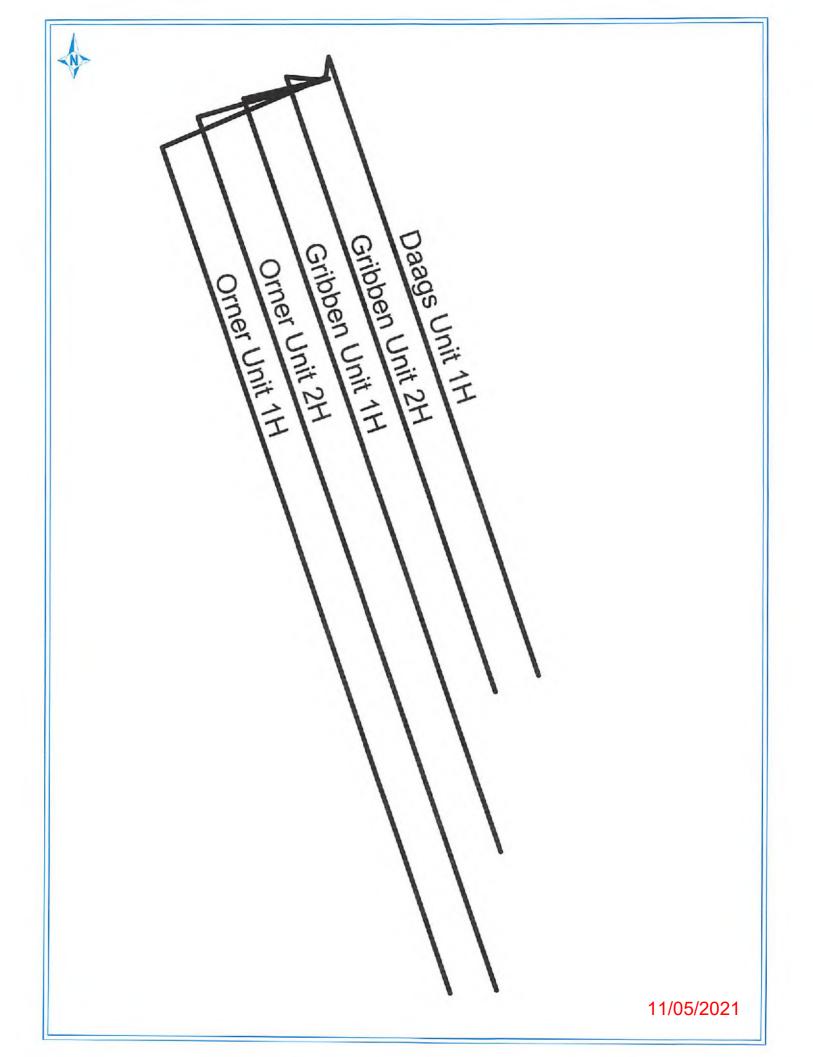
\*Note: Attach additional sheets as needed.

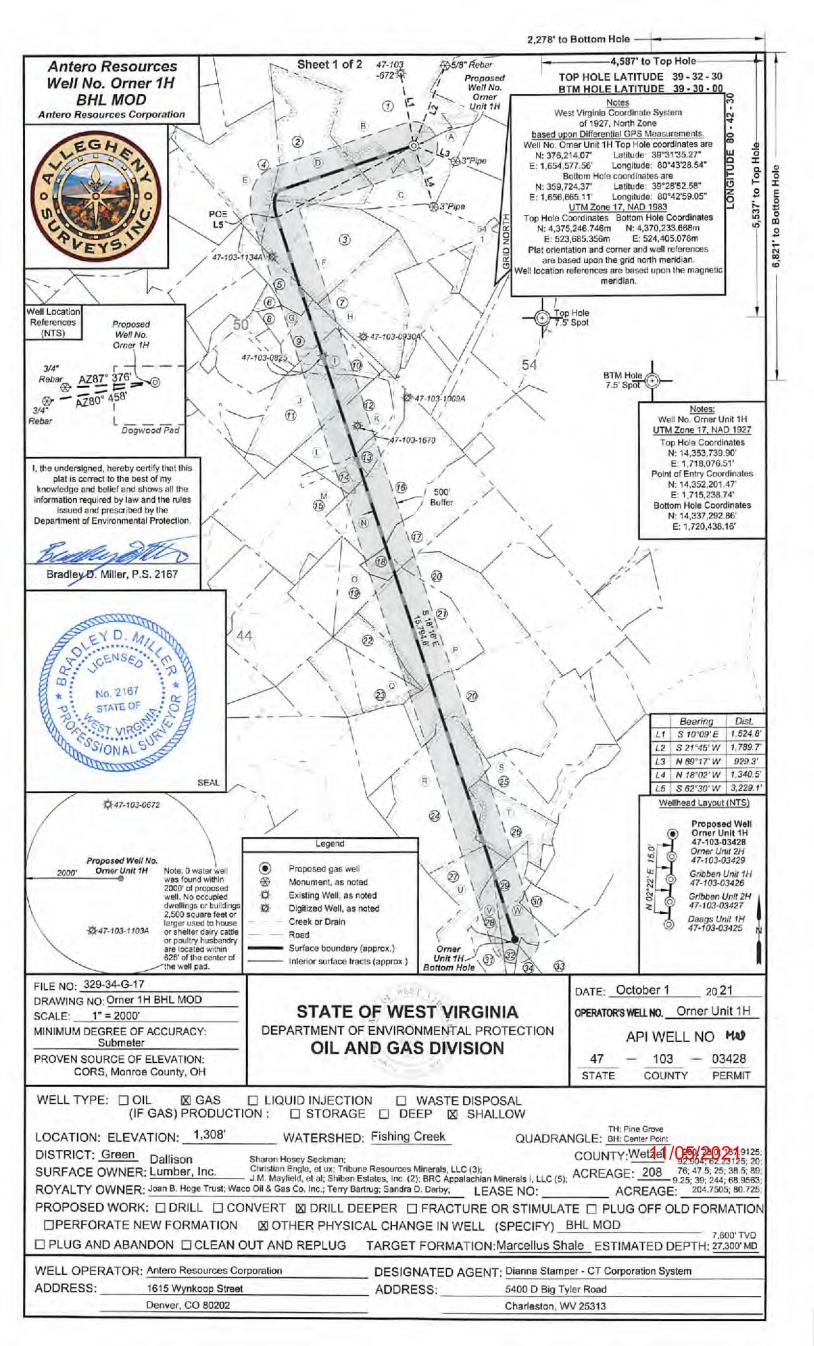


47	103311340000 47103008250000 47103016700000 Omeruni: H	
Antero Resources Corporation         Omer Unit 1H - AOR         0       2,500         FEET         WELL SYMBOLS         Plugged Gas Well		11/05/2021
October 29, 2021		

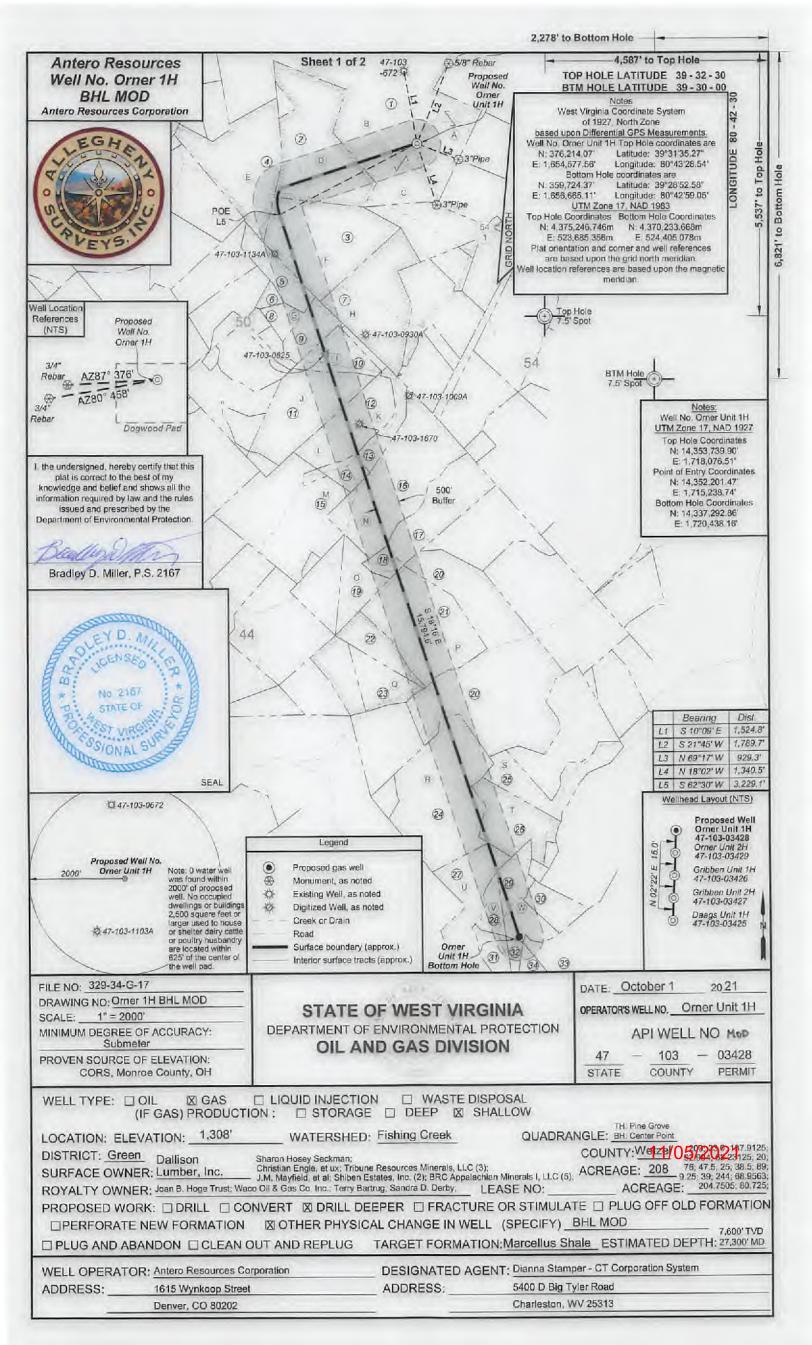
# **Orner Unit 1H AOR**

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	D	Perforated Interval Perforated (shallowest, deepest) Formation(s)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103311340000	EVA HAUGHT	1676	HOPE NATURAL GAS	HOPE NATURAL GAS	3,139	Unknown	Gordon	Weir, Berea, Benson, Alexander
47103008250000	8250000 WEST HEIRS	686	PERKINS OIL & GAS	CARNEGIE NATURAL GAS Unknown	Unknown	Unknown	Unknown	Unknown
47103016700000 KER	KERNAN WILLIAM 1	2285	MANUFACT LIGHT & HEAT	ANUFACT LIGHT & HEAT MANUFACT LIGHT & HEAT 2,865	2,865	2842 - 2848	Gordon	Weir, Berea, Benson, Alexander





BHL MOD Antero Resources Corporation	Sheet 2 of 2		
Leases           A         Joan B. Hoge Trust           B         Waco Oil & Gas Company Inc.           C         BRC Appalachian Minerais I, LLC           D         Terry Bartug           E         BRC Appalachian Minerais I, LLC           F         BRC Appalachian Minerais I, LLC           G         Sandra D. Derby           H         William J. Walker           I         J.M. Mayfield, et al           J         Shiben Estates, Inc.           L         BRC Appalachian Minerais I, LLC           M         J.W. & A.B. Haught           N         Christian Engle, et ux           O         Tribune Resources Minerals, LLC           P         BRC Appalachian Minerais, LLC           P         BRC Appalachian Minerals, LLC           R         Tribune Resources Minerals, LLC           R         Tribune Resources Minerals, LLC           S         Kimberly A, Hoskins, et vir           T         Sharon Hosey Seckman           U         Tribune Resources Minerals, LLC           V         Tribune Resources Minerals, LLC           W         BRC Appalachian Minerals I LLC	2       20-12         3       20-24         4       20-16       Coast         5       20-30       6         6       20-40       7         7       20-31       Tony         8       20-41       9         9       20-42       10         10       22-40       Rob         11       22-5       Robe         12       22-14.1       Tony         13       22-6       14         14       22-18       Timol         16       22-19       Coast         17       22-20       L         18       22-21.1       Th         19       22-21.2       Thw         20       22-34       Coast         21       22-28       Coast         21       22-28       Coast         22       22-37       Domin         23       22-33       Coast         24       3-11       Domin         23       22-33       Coast         26       25-5       Chr         27       3-12       2         28       25-13       Chast <th>Owner Dallison Lumber Inc. Terry Bartrug Lloyd Conley dal Forest Resources Co. Sandra D. Derby Sandra D. Derby Sandra D. Derby Sandra D. Derby ert L. Jr. &amp; Donna Jones rt L. Jr. &amp; Donna K. Jones / E. &amp; Marion L. Crabtree Denzil W. Sloan Denzil W. Sloan Denzil W. Sloan by L. &amp; Vicki L. Glasscock dal Forest Resources Co. awrence J. Bish, et al homas &amp; Shawn Pratt omas R. &amp; Shon T. Pratt dal Forest Resources Co. is J. &amp; Delmer M. Kowalski is J. &amp; Delmer M. Kowalski is J. &amp; Delmer M. Kowalski dal Forest Resources Co. Istopher &amp; Dennis Doyle David Schulte, et al istopher &amp; Dennis Doyle istopher &amp; Dennis Doyle istopher &amp; Dennis Doyle istopher &amp; Dennis Doyle dal Forest Resources Co. dal Forest Resources Co. William Blankenship</th> <th>Bk/Pg         Acres           440/243         208.00           361/465         92.90           355/553         89.00           444/105         75.50           384/585         21.50           384/585         21.50           384/585         7.96           384/585         7.96           384/585         21.80           436(592         16.00           297/500         76.00           365/337         41.80           305/582         21.23           305/582         9.47           370/425         9.9.89           444/105         155.30           420/736         63.23           429/66         6.80           312/697         23.00           444/105         172.91           444/105         172.91           444/105         32.00           317/307         106.94           444/105         32.00           410/80         39.36           WB14/440         80.73           410/80         38.50           410/80         38.50           410/80         13.00           410/80</th>	Owner Dallison Lumber Inc. Terry Bartrug Lloyd Conley dal Forest Resources Co. Sandra D. Derby Sandra D. Derby Sandra D. Derby Sandra D. Derby ert L. Jr. & Donna Jones rt L. Jr. & Donna K. Jones / E. & Marion L. Crabtree Denzil W. Sloan Denzil W. Sloan Denzil W. Sloan by L. & Vicki L. Glasscock dal Forest Resources Co. awrence J. Bish, et al homas & Shawn Pratt omas R. & Shon T. Pratt dal Forest Resources Co. is J. & Delmer M. Kowalski is J. & Delmer M. Kowalski is J. & Delmer M. Kowalski dal Forest Resources Co. Istopher & Dennis Doyle David Schulte, et al istopher & Dennis Doyle istopher & Dennis Doyle istopher & Dennis Doyle istopher & Dennis Doyle dal Forest Resources Co. dal Forest Resources Co. 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FILE NO: 329-34-G-17 DRAWING NO: Orner 1H BHL MOD SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH	STATE OF WEST VIRGINI DEPARTMENT OF ENVIRONMENTAL PROT OIL AND GAS DIVISION	A OPERATOR	October 1 20 21 rs well no. Orner Unit 1H API WELL NO NOD - 103 - 03428 COUNTY PERMIT
DRAWING NO: Orner 1H BHL MOD SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH WELL TYPE: OIL GAS (IF GAS) PRODUCTION: LOCATION: ELEVATION: 1,308' DISTRICT: Green Dallison SURFACE OWNER: Lumber, Inc. ROYALTY OWNER: Joan B. Hoge Trust: Wac PROPOSED WORK: DRILL CO	DEPARTMENT OF ENVIRONMENTAL PROT OIL AND GAS DIVISION	A DECTION OPERATOR A7 STATE GAL OW QUADRANGLE: BH COUNT DETAILS I, LLC (5); ACREACE E NO:/A STIMULATE [] PLU PECIFY] BHL MOD	API WELL NO MOD - 103 - 03428 COUNTY PERMIT : Pine Grova : Center Point Y:Wet1et /05/2021.91 GE: 208 76:47.5; 25:38.5; ACREAGE: 204.7505; 80.7 UG OFF OLD FORMATIO



Antero Resources		(* **	
Antero Resources Well No. Orner 1H BHL MOD Antero Resources Corporation	She	eet 2 of 2	
Leases A Joen B. Hoge Trust B Waco Oil & Gas Company I C BRC Appalachian Minerals I, D Terry Barking E BRC Appalachian Minerals I, F BRC Appalachian Minerals I, G Sandra D. Derby H William J. Walker 1 J.M. Maylield, et al J Shiben Estates, Inc. K Shiben Estates, Inc. L BRC Appalachian Minerals I, M J.W. & A.B. Haught N Christian Engle, et ux O Tribune Resources Minerals, P BRC Appalachian Minerals I, G Tribune Resources Minerals, R Tribune Resources Minerals, S Kimberly A. Hoskins, et vi T Sharon Hosey Seckmen U Tribune Resources Minerals, W BRC Appalachian Minerals I	LLC LLC LLC LLC LLC LLC LLC LLC	ID         TM/Par         Owner           1         20-13         Dallison Lumber           2         20-12         Terry Bartru           3         20-24         Lloyd Conleg           4         20-16         Coastal Forest Reso           5         20-30         Sandra D. Der           6         20-40         Sandra D. Der           7         20-31         Tony E. & Marion L.           8         20-41         Sandra D. Der           9         20-42         Sandra D. Der           10         22-40         Robert L. Jr. & Donn           11         22-5         Robert L. Jr. & Donna           12         22-14.1         Tony E. & Marion L.           13         22-6         Denzil W. Slo           14         22-14         Denzil W. Slo           15         22-18         Timothy L. & Vicki L. J.           16         22-20         Lawrence J. Bish           18         22-21.1         Thomas & Shawr           19         22-21.2         Thomas R. & Shon           20         22-33         Dominic J. & Delmer M.           23         22-33         Dominic J. & Delmer M.           24	9         361/465         92.90           y         355/553         89.00           urces Co.         444/105         75.50           by         384/585         21.60           by         384/585         3.50           Crabtree         365/337         68.95           by         384/585         21.60           rabtree         365/337         68.95           by         384/585         21.60           rabtree         365/337         41.80           aa         305/582         21.23           an         305/582         9.47           Glasscock         370/425         99.89           urces Co.         444/105         155.30           , et al         420/736         63.23           n Pratt         429/66         6.80           T. Pratt         312/697         23.00           urces Co.         444/105         172.91           urces Co.         444/105         32.00           M Kowalski         357/533         20.30           A Kowalski         317/307         106.94           urces Co.         444/105         32.00           is Doyle
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	CTION : □ STORAGE WATERSHED: F Sharon Hosey Seckman; Edward Christian Engle, et ux; Tribune R J.M. Mayfield, et al; Shiben Estat Waco Oil & Gas Co. Inc.; Terry Bartrug I CONVERT ⊠ DRILL DEEF ON ⊠ OTHER PHYSICAL	DEEP X SHALLOW      Fishing Creek     QUADRA      d William Schulte;     tesources Minerals, LLC (2);     tes, Inc. (2); BRC Appalachian Minerals I, LLC (5)     g; Sandra D. Derby; LEASE NO:  PER I FRACTURE OR STIMULA _ CHANGE IN WELL (SPECIFY)	TH: Pine Grove NGLE: BH: Center Point COUNTY: Wet 4/05/2023 .9125 ACREAGE: 208 76; 47.5; 25; 38.5; 89 9.25; 39; 244; 68.9553 ACREAGE: 204.7505; 80.725 TE □ PLUG OFF OLD FORMATION
WELL OPERATOR: Antero Resource		DESIGNATED AGENT: Dianna Stam	
ADDRESS: 1615 Wynkoop S	itreet	ADDRESS: 5400 D Big T	yler Road
Denver, CO 8020	12	Charleston, V	VV 20010

Operator's Well Number Orner Unit 1H

#### 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
•	Waco Oil & Gas, Inc. Lease			
Ъ	Waco Oil & Gas, Inc.	Antero Resources Corporation	1/8+	0184/0741
7	Terry Bartrug Lease			
7	Terry Bartrug	Antero Resources Corporation	1/8+	192A/0903
	BRC Appalachian Minerals I, LLC Lease			
	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	102A/0505
ę	BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	103A/0470
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties, Inc.	SWN Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company, LLC	Merger	0013/0296
	SWN Production Company, LLC	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
	<b>BRC Appalachian Minerals I, LLC Lease</b>			
L	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	102A/0505
٢	BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	103A/0470
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties, Inc.	SWN Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company, LLC	Merger	0013/0296
	SWN Production Company, LLC	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
ß	Sandra D. Derby Lease			
G	Sandra D. Derby	Antero Resources Corporation	1/8+	232A/0202
<b></b>	J. M. Mayfield and Sarah E. Mayfield, and R. E.			
-	<u>West Lease</u> J. M. Mayfield and Sarah E. Mayfield, and R. E.	Carnegie Natural Gas Company	1/8	00134/0530
	West		1/8	0012A/0529
	Carnegie Natural Gas Company	Perkins Oil and Gas Inc	Assignment	0074A/0277
	Perkins Oil and Gas Inc	Stone Energy Corporation	Assignment	126A/0958
	Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
	EQT Production Company	Antero Resources Corporation	Assignment	203A/0783
۱	Shiben Estates, Inc Lease			
^	Shiben Estates, Inc	Antero Resources Corporation	1/8+	257A/0029
v	Shiben Estates, Inc Lease			
۲	Shiben Estates, Inc	Antero Resources Corporation	1/8+	257A/0049

VBRC Appalachian Minerals I, LLC Lease

Operator's Well Number Orner Unit 1H

#### 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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- (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
	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	102A/0505
	BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	103A/0470
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties, Inc.	SWN Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company, LLC	Merger	0013/0296
	SWN Production Company, LLC	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
	Christian Engle, et ux Lease			
1	Christian Engle and Amy Engle his wife	C.B. Shaffer	1/8	0055/0082
¢	C.B. Shaffer	South Penn Oil Company	Assignment	UNKNOWN
	South Penn Oil Company	Tri State Gas Company	Assignment	0059/0429
	Tri State Gas Company	Manufacturers Light and Heat Company	Assignment	009A/0141
	Manufacturers Light and Heat Company	A.M Snider and Duane M Snider and Kathleen Rhinehart partners dba Hundred Gas Company	Assignment	048A/0109
	A.M Snider and Duane M Snider and Kathleen Rhinehart partners dba Hundred Gas Company	Hundred Gas Company	Assignment	0256/0189
	Hundred Gas Company	Carl D Perkins	Assignment	055A/0062
	Carl D Perkins	Perkins Oil and Gas Inc	Assignment	075A/0621
	Perkins Oil and Gas Inc	Stone Energy Corporation	Assignment	126A/0958
	Stone Energy Corporation	EQT Production Company	Assignment	183A/0305
	EQT Production Company	Antero Resources Corporation	Assignment	203A/0783
	BRC Appalachian Minerals I, LLC Lease			
R	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	102A/0505
n	BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	103A/0470
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties, Inc.	SWN Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company, LLC	Merger	0013/0296
	SWN Production Company, LLC	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311
0	Tribune Resources Minerals, LLC Lease			
Q	Tribune Resources Minerals, LLC	Antero Resources Corporation	1/8+	0059/0325
1	Sharon Hosey Seckman Lease			
	Sharon Hosey Seckman	Antero Resources Corporation	1/8+	226A/0623
Ń	Tribune Resources Minerals, LLC Lease			
	Tribune Resources Minerals, LLC	Antero Resources Corporation	1/8+	0059/0325

Operator's Well Number Orner Unit 1H

#### 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
V	<u>Tribune Resources Minerals, LLC Lease</u> Tribune Resources Minerals, LLC	Antero Resources Corporation	1/8+	0059/0325

WW-6A1 (5/13)

V

#### 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
) BRC Appalachian Minerals			a /0 .	1034/0505
	BRC Appalachian Minerals I, LLC	BRC Working Interest Company, LLC	1/8+	102A/0505
	BRC Working Interest Company, LLC	Chesapeake Appalachia, LLC	Assignment	103A/0470
	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties, Inc.	Assignment	120A/0109
	Statoil USA Onshore Properties, Inc.	SWN Exchange Title Holder LLC	Assignment	158A/0801
	SWN Exchange Title Holder LLC	SWN Production Company, LLC	Merger	0013/0296
	SWN Production Company, LLC	Antero Exchange Properties LLC	Assignment	177A/0533
	Antero Exchange Properties LLC	Antero Resources Corporation	Merger	0013/0311

\*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.

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				
By:	Tim Rady	Law Veder			
Its:	VP of Land				

Page	1	of	1	



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

11/05/2021

## Modification Horizontal H6A Well Work Permit (API: 47-103-03428)

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov> Tue, Nov 2, 2021 at 9:01 AM To: mhamsher@anteroresources.com, Dani DeVito <ddevito@shalepro.com>, Scott Lemley <slemley@wvassessor.com>, "Harris, Bryan O" <br/>bryan.o.harris@wv.gov>

I have attached a copy of the newly issued well permit number "ORNER UNIT 1H". This will serve as your copy.

If you have any questions, then please contact us here at the Office of Oil and Gas.

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

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