

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

Thursday, January 28, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for CHEAT 2H

47-095-02720-00-00

Extend 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: CHEAT 2H

Farm Name: PATRICIA ANN HEINTZMAN

U.S. WELL NUMBER: 47-095-02720-00-00

Horizontal 6A New Drill

Date Modification Issued: 1/28/2021

Promoting a healthy environment.

WW-6B (04/15) API NO. 47- 095 - 02720
OPERATOR WELL NO. Cheat Unit 2H
Well Pad Name: Elk Fork Pad

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

1) Well Operate	or: Antero Res	sources Corpora	494507062	095 - Tyler	Ellsworth Porters Falls 7.5'
			Operator ID	County	District Quadrangle
2) Operator's V	Vell Number: C	neat Unit 2H	Well P	ad Name: Elk F	ork Pad
3) Farm Name/	Surface Owner:	Patricia Ann Hein	tzman Public Ro	oad Access: Elk	Fork Road
4) Elevation, cu	urrent ground:	1126' E	levation, propose	d post-construct	ion:
5) Well Type	(a) Gas X Other	Oil	Un	derground Stora	ge
		allow X	Deep		
	Не	rizontal X			
6) Existing Pad	l: Yes or No Ye	s			
		s), Depth(s), Antic Anticipated Thickne	and the second s		The second of th
8) Proposed To	otal Vertical Dep	th: 7000' TVD			IANI 1 0 2024
9) Formation at	t Total Vertical I	Depth: Marcellus	S		2VW T 2 7071
10) Proposed T	otal Measured D	Depth: 23300'			WV Department of Environmental Protection
11) Proposed H	Iorizontal Leg L	ength: 15712'			
12) Approxima	te Fresh Water S	Strata Depths:	125'		
13) Method to 1	Determine Fresh	Water Depths:	47-095-00269		
14) Approxima	te Saltwater Dep	oths: 1703'			
15) Approxima	te Coal Seam De	epths: 58'			
16) Approxima	te Depth to Poss	ible Void (coal m	ine, karst, other):	None Anticipa	ited
		n contain coal sea o an active mine?	ms Yes	No.	x no
(a) If Yes, pro	vide Mine Info:	Name:			2000
		Depth:			XX 43/3
		Seam:			X
		Owner:			By K
					~ J~

WW-6B (04/15) API NO. 47-_095 - 02720

OPERATOR WELL NO. Cheat Unit 2H

Well Pad Name: Elk Fork Pad

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#	90'	90'	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	300'	300'	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	23300'	23300'	5999 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<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	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

RECEIVED Office of Oil and Gas

Kind:	N/A	JAN 1 9 2021
Sizes:	N/A	WV Department of Environmental Protection
Depths Set:	N/A	

WW-6B	
(10/14)	

API NO. 47-_095 - 02720

OPERATOR WELL NO. Cheat Unit 2H

Well Pad Name: Elk Fork Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:						
Drill a new vertical shallow well into the 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): 43.65 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.91 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

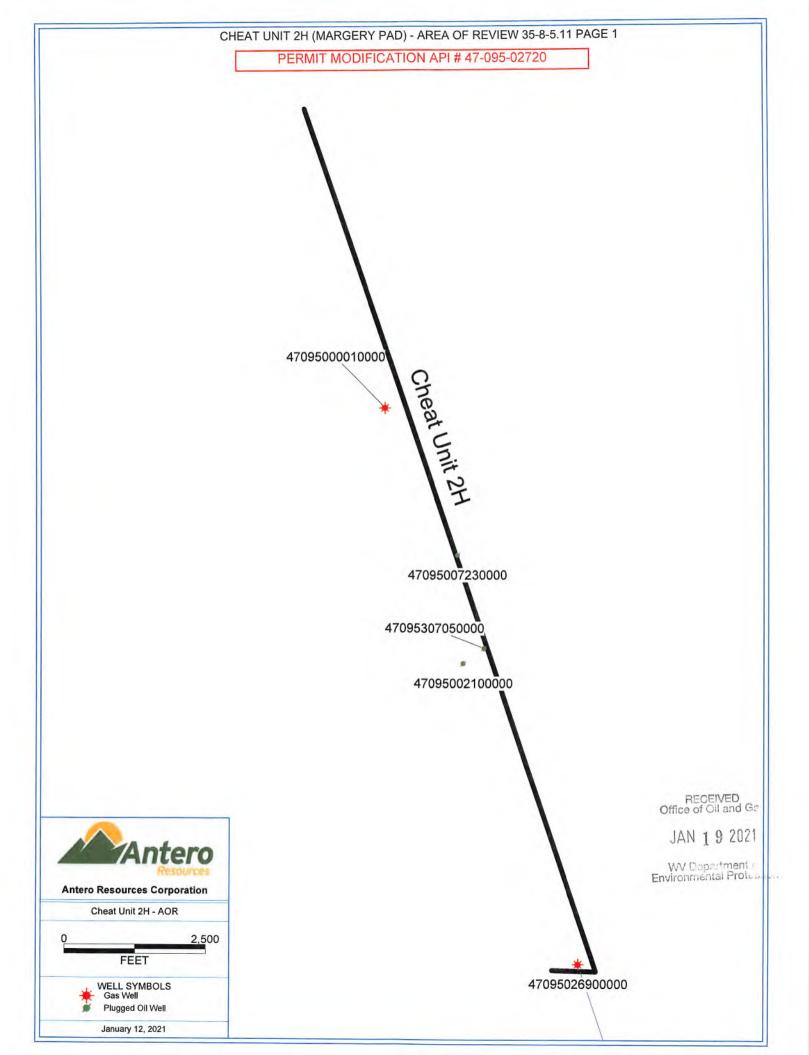
25)	Proposed	borehole	conditioning	procedures:

RECEIVED
Office of Oil and Gas

JAN 1 9 2021

WV Department of Environmental Protection

^{*}Note: Attach additional sheets as needed.

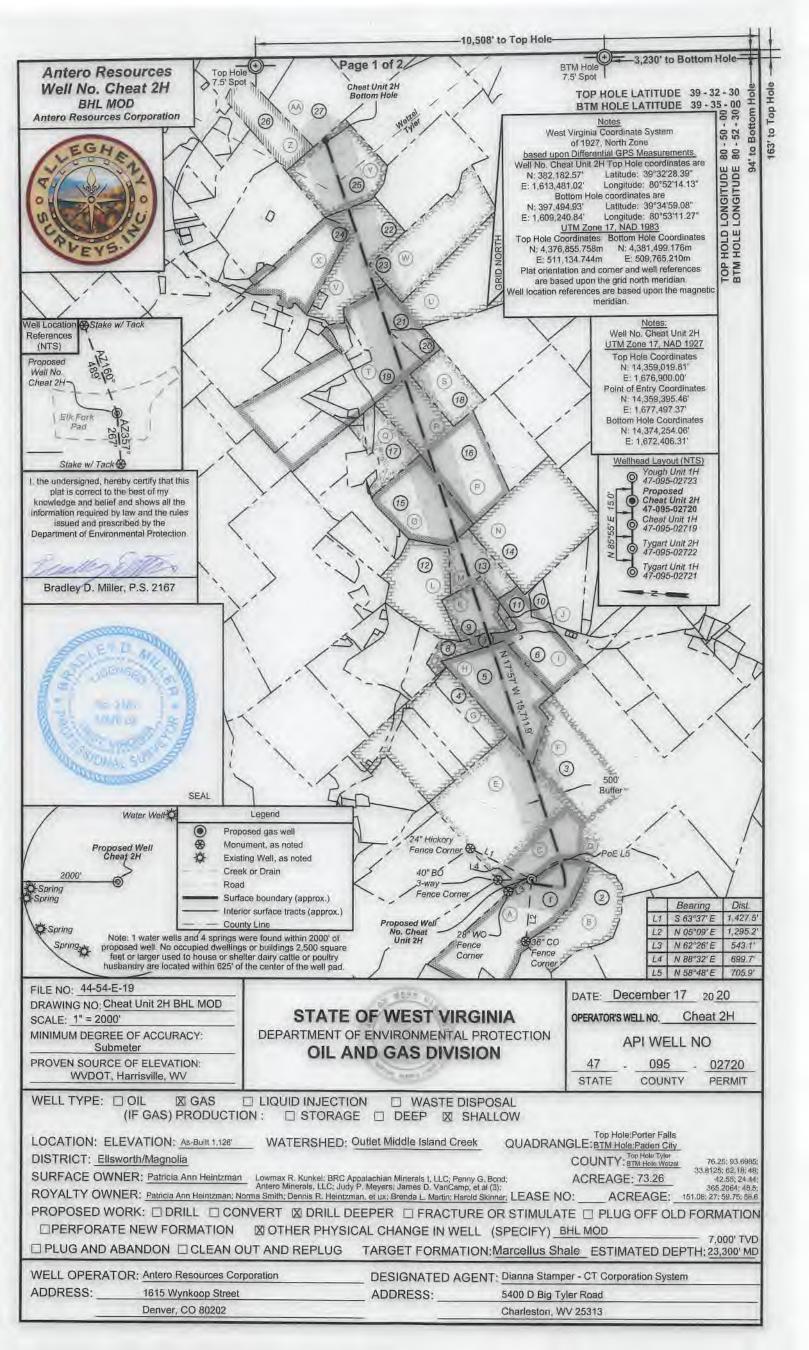


UWI (APINum)	Well Name	Well Number	Operator	Historical Operator
47095000010000	CHARLES A WATKINS	1	JCR Petroleum Inc.	JCR Petroleum Inc.
47095007230000	WATKINS HEIRS	1.	VAN CAMP DONALD	CARTER-JONES LUMBER
47095307050000	ANNA FOX	1	Unknown	Unknown
47095002100000	ANNA FOX	2	Unknown	Unknown
47095026900000	Richmond Unit	1H	ANTERO RESOURCES CORPORATION	ANTERO RESOURCES CORPORATION

RECEIVED Gas
Office of Oil and Gas
JAN 1 9 2021

WW Department of
Environmental Protection

TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
1,600	Unknown	Unknown	Unknown
2,445	2005 - 2193	Weir, Berea	Big Injun, Alexander
1,710	Unknown	Kenner	Big Injun, Berea, Alexander
1,660	Unknown	Kenner	Big Injun, Berea, Alexander
22,714	6743 - 22602	Marcellus	N/A



Antero Resources Well No. Cheat 2H BHL MOD Antero Resources Corporation



ID	TM/Par	Owner	Bk/Pg	Acres
1	10-2	Patricia Ann Heintzman	W13/384	73.26
2	10-3	Kevin S. & Melinda S. Goff	597/808	53.75
3	6-36	Dennis & Clista Heintzman	297/640	417.60
4	6-35.4	Stephen & Andriea Knowlton	340/412	17.46
5	6-24	Harold Skinner	204/595	62.18
6	6-25.2	Kevin Lee Fletcher	328/723	32.00
7	6-25.1	Kevin Lee Fletcher	328/723	5.76
8	6-16.3	Michael L. Roberts	407/45	14.81
9	6-16.4	Michael L. Roberts	407/45	27.74
.10	6-16.5	James M. & Sherry Starkey	344/785	24.44
11	6-25	William L. McClain	253/323	11.87
12	6-15	James D. VanCamp, et al	W38/144	47.50
13	6-16.5	James M. & Sherry Starkey	344/785	24.44
14	6-6	Gary A. & Penny K. Midcap	301/265	100.00
15	6-4	James D. Vancamp, et al	W38/144	46.76
16	6-5	Gary A. & Penny K. Midcap	301/265	75.55
17	3-43	Joel A. Prosser	387/736	23.62
18	3-42	Rosalie B. Henry	362/339	27.00
19	3-40	Rosalie Henry	170/006	46.21
20	3-41	Gary A. & Penny K. Midcap	296/518	7.00
21	3-18	Gary Midcap	322/108	80.33
22	3-12	Lomax R. Kunkel	297/692	57.51
23	3-13	Lomax R. Kunkel	297/692	63.50
24	3-48	Linda Hoover	356/233	45.00
25	16-65	Kenneth W. & Norma A. Headley	355/347	58.60
26	16-56	Verda Hart	W69/785	10.50
27	16-59	Kenneth W. & Norma A. Headley	355/347	47.75

	Leases
Α	Patricia Ann Heintzman
В	Nina & Phillip Whitefield
C	Norma Smith
D	BRC Appalachian Minerals I, LLC
E	Dennis R. Heintzman, et ux
F	BRC Appalachian Minerals I, LLC
G	BRC Appalachian Minerals I, LLC
Н	Harold Skinner
1	Antero Minerals, LLC
J	Judy P. Meyers
K	Brenda L. Martin
L	James D. VanCamp, et al
M	Judy P. Meyers
N	Gary A. Midcap, et ux
0	James D. VanCamp, et al
P	James D. VanCamp, et al
Q	BRC Appalachian Minerals I, LLC
R	Penny G. Bond
S	Linda Allen
Т	James D. VanCamp, et al
U	Gary A. & Penny K. Midcap
٧	Lowmax R. Kunkel
W	Lowmax R. Kunkel
X	James D. VanCamp, et ux
Y	BRC Appalachian Minerals, I LLC
Z	David B. Shriver
AA	No Lease

FILE NO: 44-54-E-19
DRAWING NO: Cheat Unit 2H BHL MOD
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:

Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE: _[Dec	ember 17		20_20
OPERATOR'	S WI	ELL NO	Che	eat 2H
	A	PI WELL	N	0
47		095	-	02720
STATE		COUNTY		PERMIT

		OTHE COUNTY TERMIN
WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECT (IF GAS) PRODUCTION: ☐ STORAGE		
DISTRICT: Ellsworth/Magnolia SURFACE OWNER: Patricia Ann Heintzman Lowmax R Kunkel: BRC	Outlet Middle Island Creek Appalachian Minerals I, LLC; Penny G. E dy P. Meyers; James D. VanCamp, et al (zman, et ux; Brenda L. Martin; Harold Skir	365 2064: 48 5:
	DEEPER FRACTURE (OR STIMULATE DEPLUG OFF OLD FORMATION (SPECIFY) BHL MOD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG		7,000° IVD
WELL OPERATOR: Antero Resources Corporation	DESIGNATED AGENT	Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road
Denver CO 80202		Charleston WW 25313

Antero Resources Well No. Cheat 2H BHL MOD Antero Resources Corporation



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SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:

WVDOT, Harrisville, WV

Denver, CO 80202

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE: December 17 20 20

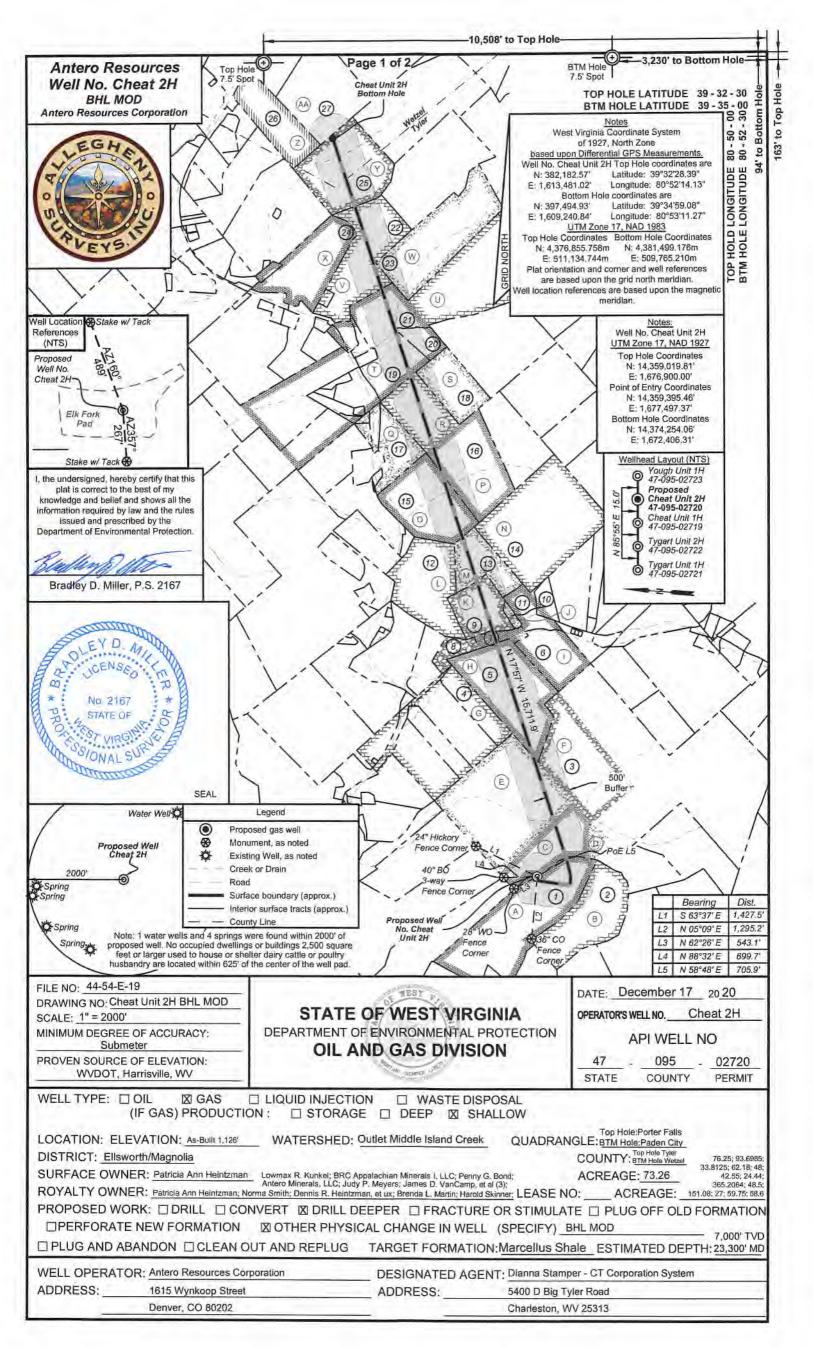
OPERATOR'S WELL NO. Cheat 2H

API WELL NO

47 - 095 - 02720 STATE COUNTY PERMIT

Charleston, WV 25313

WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE	상이에게 보고 어른데요 그리다시아래 (나는데 그 이건데) 하다. [그리아] [
DISTRICT: Ellsworth/Magnolia	Outlet Middle Island Creek QUADR	Top Hole:Porter Falls CANGLE: BTM Hole:Paden City COUNTY: Top Hole Tyler COUNTY: BTM Hole Wetzel	76.25; 93.6985;
ROTALIT OVVNER: Patricia Ann Heintzman; Norma Smith; Dennis R. Heintzm			33.8125; 62.18; 48; 42.55; 24.44; 365,2064; 48.5; 51.08; 27; 59.75; 58.6
	EEPER FRACTURE OR STIMUL CAL CHANGE IN WELL (SPECIFY)	LATE □ PLUG OFF OLD) BHL MOD	FORMATION 7.000' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus	Shale ESTIMATED DEP	
WELL OPERATOR: Antero Resources Corporation ADDRESS: 1615 Wynkoop Street	DESIGNATED AGENT: Dianna Sta ADDRESS: 5400 D Bio	amper - CT Corporation System	



Operator's Well Number

Cheat Unit 2H

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
Patricia Ann Heintzman Lease			
Patricia Ann Heintzman	Antero Resources Corporation	1/8+	0594/0309
Norma Smith Lease			300.442
Norma Smith	Antero Resources Corporation	1/8+	0467/0551
Dennis R. Heintzman et ux Lease			
Dennis R. Heintzman et ux	Stone Energy Corporation	1/8+	0397/0726
Stone Energy Corporation	Antero Resources Appalachian Corporation	Assignment	0447/0767
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Harold Skinner Lease			
Harold Skinner	Antero Resources Corporation	1/8+	0576/0102
Antero Minerals LLC Lease			
Antero Minerals LLC	Antero Resources Corporation	1/8+	0067/0486
Brenda L. Martin Lease			
Brenda L. Martin	Antero Resources Corporation	1/8	0062/0470
Judy P. Meyers Lease			
Judy P. Meyers	Antero Resources Corporation	1/8+	0002/0044
James D. VanCamp et al Lease (TM 3 PCL 32)			
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
James D. VanCamp et al Lease (TM 6 PCL 3)			
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	EWED 0557/0430 Oil and Gas
Penny G. Bond Lease		Office of	011,111.0
Penny G. Bond	Antero Resources Corporation		9 2021 0671/0840
James D. VanCamp et al Lease (TM 3 PCL 48)		WAN DE	nartment of ental Protection 0404/0380
James D. VanCamp et al	Antero Resources Appalachian Corporation	1/8+ Environitis	0404/0380
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	0557/0430
Lowmax R. Kunkel Lease			
Lowmax R. Kunkel	EQT Production Company	1/8+	0605/0008
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

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

WW-6A1 (5/13)

at Unit 2H

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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
BRC Appalachian Minerals I LL	C Lease			
	BRC Appalachian Minerals I LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
	Chesapeake Appalachia LLC	Statoil USA Onshore Properties	Assignment	0378/0764
	Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
	EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

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 Office of Orland Bas

Tim Rady

VP of Land

VP of Land

WW Departmental Profession

"Co-tenancy utilization — At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act.

Page 1 of 1

^{*}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.



January 14, 2021

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Ms. Laura Adkins 601 57th Street Charleston, WV 25304 Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

Cheat Unit 2H 75-02720 Yough Umt 45-02723

Ms. Laura Adkins:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for the following approved wells on the existing Elk Fork Pad: Cheat Unit 2H (API # 47-095-02720) & Yough Unit 1H (API # 47-095-02723).

Attached you will find the following documents:

- > REVISED Form WW-6B, which shows the updated POE & Measured Depth
- > REVISED Form WW-6A1, which shows the new leases we will be drilling into
- > REVISED Mylar Plat, which shows the new Lateral Length & Estimated Measured Depth
- AOR & As-Built Design

If you have any questions please feel free to contact me at (303) 357-7223.

Thank you in advance for your consideration.

Office of Oil and Gas

WV Depertment of Environmental Protection

Sincerely,

Megan Griffith Permitting Agent

Antero Resources Corporation

Enclosures

Expedited Permit Modification

DO days

Received date: $\frac{1/19/21}{1/2}$

Expedited Final Date: _

2/8/21

Operator: Antino

Well Name:

heat 2H

Pad Name: Elk York

API: <u>95-02720</u>

A CONTRACTOR OF THE CONTRACTOR	MODIFIED PERMIT	ORIGINAL PERMIT	
TVD	7000	7000' -	
TMD	7000	10206' E	
HL	157121	2095' €	
FW	125	125' -	
SW	1703	1703 -	
COAL	58	58 -	
CONDUCTOR	90	90 L	
FRESHWATER	300	300 L	
INTERMEDIATE 1	2500	2500 ~	
INTERMEDIATE 2	_		
PRODUCTION	23300	10200' E	

Notes:	Oris. Par	cel ADI	= A. HeinH	zmau	,
		, D. Merá S.	= A. Heinh nish E. D. H	in teman	··· /
-u	plated Ac	DR . LANCLUCE	J		
71	1/1. 15 1 1	F Lt.	2/D 1 (0	- i-i/	V . I . A
4.	Hundrman, P	I Antero X Martin	P VanCa		Kunkol) RPC
iE	Heinifsman, D Skinner	- M Myro - O Vancary	-T Vauro		
-H .	Skinner	-0 Vantany)		
Λ	٠, ، ، ، ، ، ، ،				