

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

Wednesday, September 29, 2021 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit Modification Approval for NATIONAL UNIT 2H 47-095-02745-00-00

Lateral Extension, Updated Lease Chain

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:NATIONAL UNIT 2H
KAYLA LEEKU.S. WELL NUMBER:
Horizontal 6A47-095-02745-00-00Date Modification Issued:09/29/2021

Promoting a healthy environment.

API NO. 47- 095 - 02745-00-00

OPERATOR WELL NO. National Unit 2H Well Pad Name: Margery Pad

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

I) Well Operator: Anter	ro Resources Cor	pora 49450706	2 095 - Tyler	Ellsworth	Porter Falls 7.5
		Operator 1	D County	District	Quadrangle
2) Operator's Well Numl	per: National Unit	2H W	ell Pad Name: Mar	gery Pad	
3) Farm Name/Surface C	wner: Kayla Leek	Publ	ic Road Access: C	R 11	
4) Elevation, current grou	und: 1041'	Elevation, pro	bosed post-construct	ction:	
5) Well Type (a) Gas Other	<u>x</u> 0	9i1	Underground Stor	rage	
(b)If Gas	s Shallow X Horizontal X	De	ер		Dml
6) Existing Pad: Yes or N	No Yes				9-16-21
7) Proposed Target Form Marcellus Shale: 7100'					
8) Proposed Total Vertic	V V and a star			2000	
9) Formation at Total Ve		cellus			
10) Proposed Total Meas		400' MD			
11) Proposed Horizontal		147'			
12) Approximate Fresh V	Water Strata Depths	: 103'			
 Method to Determine Approximate Saltwat 		hs: Offset well reco	rds. Depths have been	adjusted accord	ling to surface elevation
15) Approximate Coal Se	eam Depths: None	Anticipated			
16) Approximate Depth	o Possible Void (co	oal mine, karst, ot	her): None Anticip	pated	
17) Does Proposed well l directly overlying or adja			N	lo X	
(a) If Yes, provide Min	e Info: Name:				
	Depth:				
	Seam:				
	Owner:				

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10/01/2021

API NO. 47- 095 - 02745-00-00

OPERATOR WELL NO. National Unit 2H Well Pad Name: Margery Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	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	94#	90	90	CTS, 77 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#	23400	23400	6042 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners				1			

DmH 9-16-21

			1.0.01						
ТҮРЕ	Size (in)	<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					1				
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	9300	Lend HPOZATAL . H	H/POZ-1.44 & H-1.8		
Tubing	2-3/8"	4.778"	0.19"	11,200		1			
Liners									

PACKERS

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

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WW-6B (10/14)

OPERATOR WELL NO. National Unit 2H Well Pad Name: Margery Pad

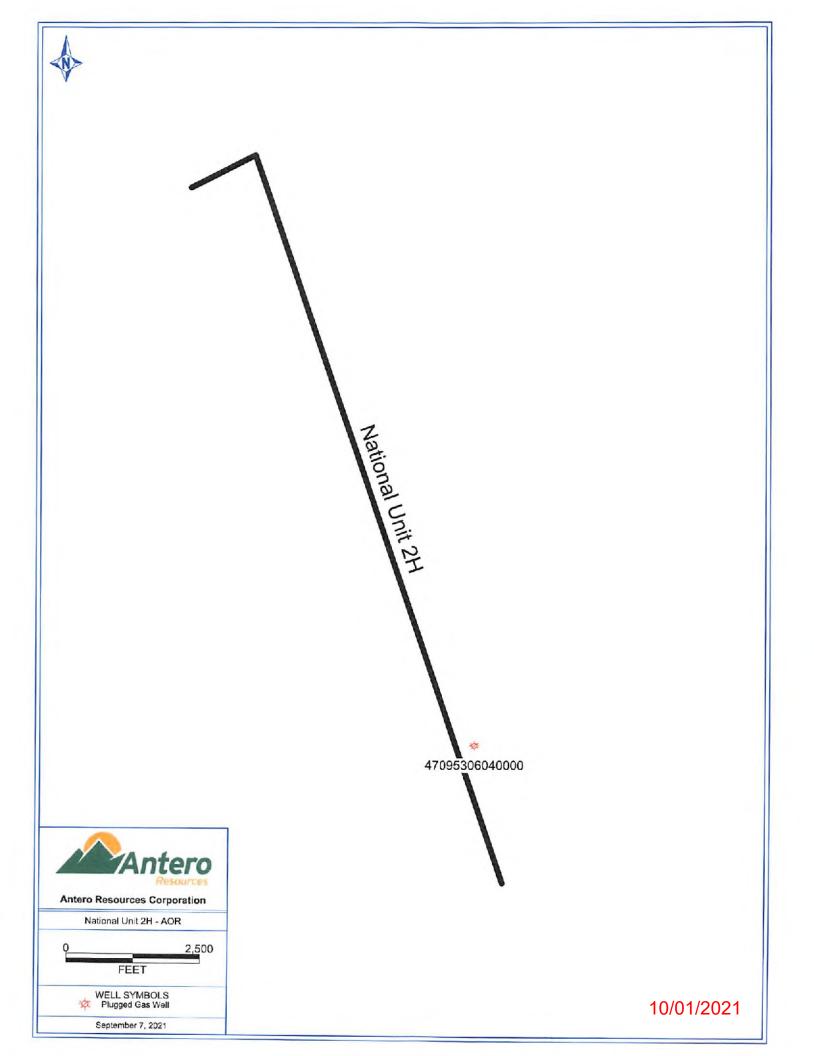
19) Describe proposed well work, including the drilling and plugging	ng back of any pilot hole:
Drill, perforate, fracture a new horizontal shallow well and con	nplete Marcellus Shale.
20) Describe fracturing/stimulating methods in detail, including an	ticipated max pressure and max rate:
Antero plans to pump Slickwater into the Marcellus Shale forr production. The fluid will be comprised of approximately 99 p percent special-purpose additives as shown in the attached "I Fracturing or Stimulating Well."	ercent water and sand, with less than 1
Tracturing of Stimulating Well.	Dm H 9-16-21
Anticipated Max Pressure - 9300 lbs	A 11-221
Anticipated Max Rate - 80 bpm	1-10 = 1
21) Total Area to be disturbed, including roads, stockpile area, pits	, etc., (acres): 51.65 acres
22) Area to be disturbed for well pad only, less access road (acres):	13.44 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 to surface.	one every 4th joint spaced up the hole
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float colla Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in	

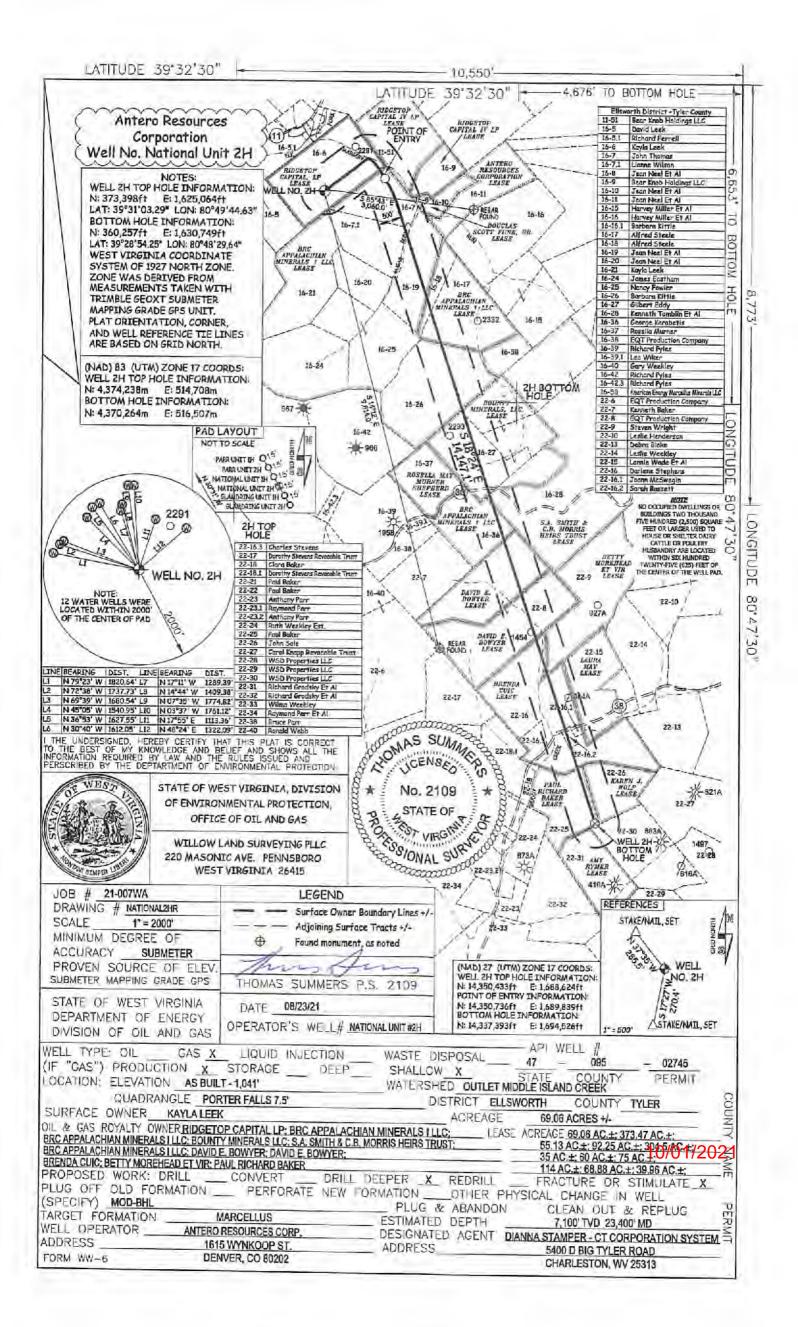
24) Describe all cement additives associated with each cement type:

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:

*Note: Attach additional sheets as needed.





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:

Nidgetop Capital IP LeasePetroadge Energy LLC1/80420/0643Nidgetop Capital IPStatoil USA Onshore Properties Inc.Assignment0436/0001Statoil USA Onshore Properties Inc.EQT Production CompanyAssignment0653/0001BRC Appalachian Minerals I, LLC LeaseBRC Working interest Company, LLC1/80536/0300BRC Appalachian Minerals I, LLC LeaseBRC Working interest Company, LLC1/80536/0300BRC Appalachian Minerals I, LLCBRC Working interest Company, LLCAssignment0539/0239BRC Appalachian Minerals I, LLCBRC Working interest Company, LLCAssignment0539/0239GRC Production CompanyAssignment0539/02390539/0239BRC Appalachian Minerals I, LLCBRC Working interest Company, LLCAssignment0539/0239BRC Appalachian Minerals I, LLC LeaseBRC Working interest Company, LLC1/80599/0300BRC Appalachian Minerals I, LLC LeaseBRC Working interest Company, LLC1/80539/0239BRC Appalachian Minerals I, LLC BRC Working interest Company, LLCAssignment0539/0239BRC Appalachian Minerals I, LLCBRC Working interest CompanyAssignment0539/0239BRC Appalachian Minerals I, LLC EaseBRC Working interest CompanyAssignment0539/0239BRC Appalachian Minerals I, LLCBRC Working interest CompanyAssignment0539/0239BRC Appalachian Minerals I, LLC EaseBRC Working interest CompanyAssignment0539/0239BRC Appalachian Minerals I, LLC EaseBRC Working interest Company <t< th=""><th>Grantor, lessor, etc.</th><th>Grantee, lessee, etc.</th><th>Royalty</th><th>Book/Page</th></t<>	Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Petroedge Energy LLC Statoil USA Onshore Properties Inc. Assignment 0436/0001 Statoil USA Onshore Properties Inc. EQT Production Company Assignment 0539/0239 EQT Production Company Antero Resources Corporation 2000 BRC Appalachian Minerals I, LLC Lease Company, LLC 1/8 0369/0300 BRC Working Interest Company, LLC Cheapeake Appalachia, LLC Assignment 0378/0784 Statoil USA Onshore Properties Inc. EQT Production Company Antero Resources Corporation 2010 BRC Appalachian Minerals I, LLC BRC Working Interest Company, LLC 1/8 0369/0300 BRC Working Interest Company Antero Resources Corporation Assignment 0539/0239 EQT Production Company Antero Resources Corporation 2010 BRC Appalachian Minerals I, LLC Statoil USA Onshore Properties Inc Company Assignment 0539/0239 EQT Production Company Antero Resources Corporation Assignment 05663/0001 BRC Appalachian Minerals I, LLC BRC Working Interest Company, LLC 1/8 0369/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company, LLC 1/8 0369/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company Antero Resources Corporation Assignment 0369/0304 Cheapeake Appalachia, LLC Statoil USA Onshore Properties Inc Assignment 0369/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company Assignment 0539/0239 EQT Production Company Antero Resources Corporation 1/8 0555/0337 BRC Appalachian Minerals I, LLC BRC Working Interest Company Assignment 0539/0239 EQT Production Company Antero Resources Corporation 1/8 0555/0337 BRC Appalachian Minerals I, LLC BRC Working Interest Company Assignment 0359/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company Assignment 0359/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company Assignment 0359/0300 BRC Appalachian Minerals I, LLC Case BRC Appalachia, LLC Assignment 0359/0300 BRC Appalachian Minerals I, LLC Case BRC Appalachia, LLC Assignment 0359/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company Assignment 0359/0300 BRC Working Interest Company Antero Resources Corporation 1/8+ 0076/0318	Ridgetop Capital LP Lease			
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Bounty Minerals, LLC Lease Antero Resources Corporation 1/8+ 0555/0337 BRC Appalachian Minerals I, LLC Lease BRC Working Interest Company, LLC 1/8 0369/0300 BRC Appalachian Minerals I, LLC BRC Working Interest Company, LLC 1/8 0369/0300 Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc Assignment 0378/0764 Statoil USA Onshore Properties Inc EQT Production Company Assignment 0539/0239 EQT Production Company Antero Resources Corporation Assignment 0663/0001 David E. Bowyer Lease Antero Resources Corporation 1/8+ 0078/0318 David E. Bowyer Antero Resources Corporation 1/8+ 0101/0738 Betty Morehead et vir Lease Butvi Morehead et vir Lease 1/8+ 0101/0738	Statoil USA Onshore Properties Inc	EQT Production Company	-	0539/0239
Bounty Minerals, LLCAntero Resources Corporation1/8+0555/0337BRC Appalachian Minerals I, LLC Lease BRC Appalachian Minerals I, LLCBRC Working Interest Company, LLC1/80369/0300BRC Working Interest Company, LLCChesapeake Appalachia, LLCAssignment0369/0784Chesapeake Appalachia, LLCStatoil USA Onshore Properties IncAssignment0378/0764Statoil USA Onshore Properties IncEQT Production CompanyAssignment0533/0239EQT Production CompanyAntero Resources CorporationAssignment0663/0001David E. Bowyer Lease David E. BowyerAntero Resources Corporation1/8+0078/0318Betty Morehead et vir Lease Betty Morehead et vir LeaseAntero Resources Corporation1/8+0101/0738	EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
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Betty Morehead et vir Antero Resources Corporation 1/0.	Betty Morehead et vir Lease			
	Betty Morehead et vir	Antero Resources Corporation	1/8+	0498/0111
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Brenda Cuic JB Exploration I, LLC 1/8 10/01/2024/p431	Brenda Cuic	JB Exploration I, LLC	1/8	10/01/2024/p431

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
JB Exploration I, LLC	Statoil USA Onshore Properties	Assignment	0509/0746
Statoil USA Onshore Properties, LLC	EQT Production Company	Assignment	0563/0016
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Paul Richard Baker Lease			
Paul Richard Baker	Antero Resources Corporation	1/8+	0101/0763



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

Expedited Modifications H6A Horizontal Well Work Permits Margery Pad

1 message

 Stansberry, Wade A <wade.a.stansberry@wv.gov>
 Wed, Sep 29, 2021 at 12:07 PM

 To: Dani DeVito <ddevito@shalepro.com>, mhamsher@anteroresources.com, Derek Haught <derek.m.haught@wv.gov>,

 Ijackson@wvassessor.com

I have attached permit copies for the Margery Pad for the following wells

95-02742 95-02743 95-02744 95-02745 95-02746

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

5 attachments

[™] 631K **47-095-02744 - mod.pdf**

[™] 634K **47-095-02745 - mod.pdf**

₱ 47-095-02746 - Copy.pdf 649K

[™] 47-095-02743 - mod.pdf 660K

₱ 47-095-02742 - mod.pdf 728K