

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, July 11, 2018 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit Modification Approval for HEX UNIT 1H

47-085-10332-00-00

Lateral Shift

Re:

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: HEX UNIT 1H

Farm Name: RADALL BOND ET AL

U.S. WELL NUMBER: 47-085-10332-00-00

Horizontal 6A New Drill Date Modification Issued: July 11, 2018

Promoting a healthy environment.

WW-6B (04/15) API NO. 47- 085

_ 10332

OPERATOR WELL NO. Hex Unit 1H

Well Pad Name: Hichman Pad

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

1) Well Operat	or: Antero	Resources	Corporat	494507062	085 - Ritchi	Clay	Pennsboro 7.5'
(**	R-		_	Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	r: Hex Unit	1H	Well Pad	Name: Hich	man Pad	
3) Farm Name/	Surface Ow	ner: Radall	Bond et a	Public Road	d Access: CR	1-74/4 (Bor	nd Run)
4) Elevation, co	urrent groun	d: 1250'	Ele	evation, proposed j	post-construct	ion:	
5) Well Type	(a) Gas Other	X	_ Oil	Unde	rground Stora	ge	
	(b)If Gas	Shallow Horizontal	X	Deep			-
6) Existing Pad	l: Yes or No	rame:					
	•			pated Thickness as ss- 75 feet, Associa		0.40	
8) Proposed To	otal Vertical	Depth: 700	0' TVD				
9) Formation a			Marcellus				
10) Proposed T	otal Measur	ed Depth:	19200' MI)			
11) Proposed H	Iorizontal Le	eg Length:	9635'	1132	3 original		
12) Approxima	ite Fresh Wa	iter Strata De	pths:	170', 238', 341'			
13) Method to 1 14) Approxima			—	W 2001 2001 2001	oths have been a	djusted accore	ding to surface elevations.
15) Approxima	te Coal Sear	m Depths: 8	68', 1675'				
16) Approxima	te Depth to	Possible Voi	d (coal mi	ne, karst, other):	None Anticipa	ated	
17) Does Propo directly overlyi				Yes	No	<u> X</u>	Dec. REOS.
(a) If Yes, pro	ovide Mine I	nfo: Name					Office of Oil and Ga
		Depth	:				6 201
		Seam:	\$ \$				Environmental Protection
		Owner	r:				rection

WW-6B (04/15) API NO. 47- 085 - 10332

OPERATOR WELL NO. Hex Unit 1H
Well Pad Name: Hichman Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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#	80'	80' 🗸	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	395' *see #19	√395' *see #19	CTS, 549 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	19200'	19200' 🗸	4872 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	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"	0.361"	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

Kind:	N/A	Dr.
Sizes:	N/A	Office of Oil and Gas
Depths Set:	N/A	JUN 6 2018
		Environmental Protection

WW-6B (10/14) API NO. 47- 085 - 10332

OPERATOR WELL NO. Hex Unit 1H

Well Pad Name: Hichman Pad

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): 28.61 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 7.43 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

Office of Oil and Gas

JUN 6 2018

Environmental Protects

25) Proposed borehole conditioning procedures:

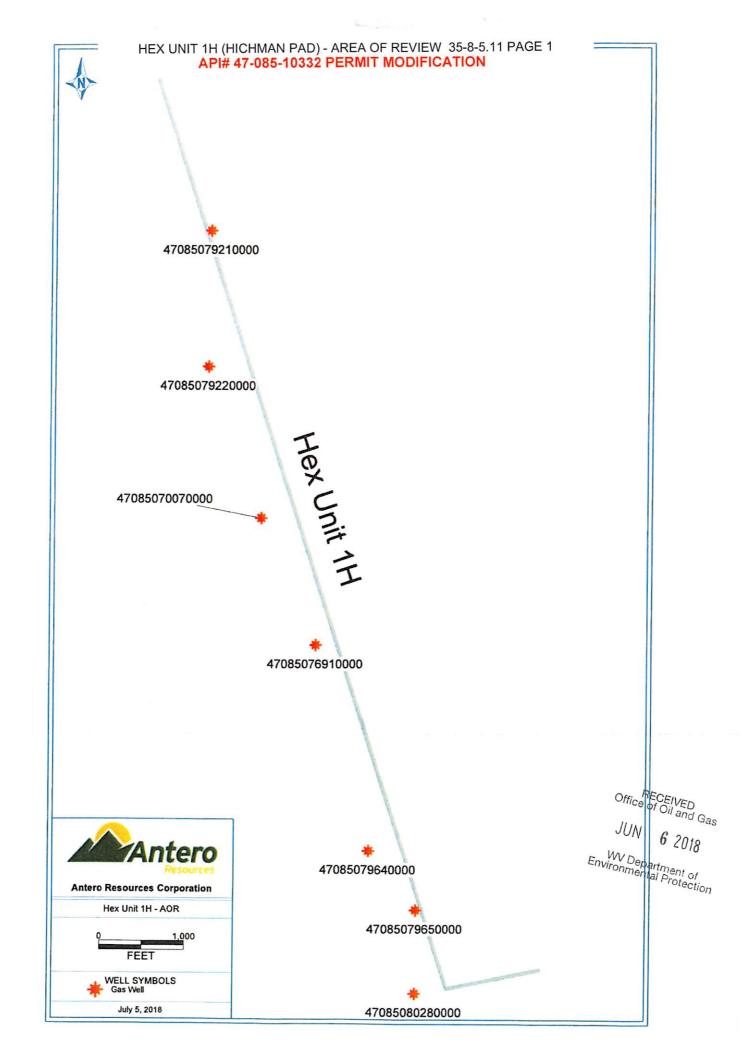
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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.

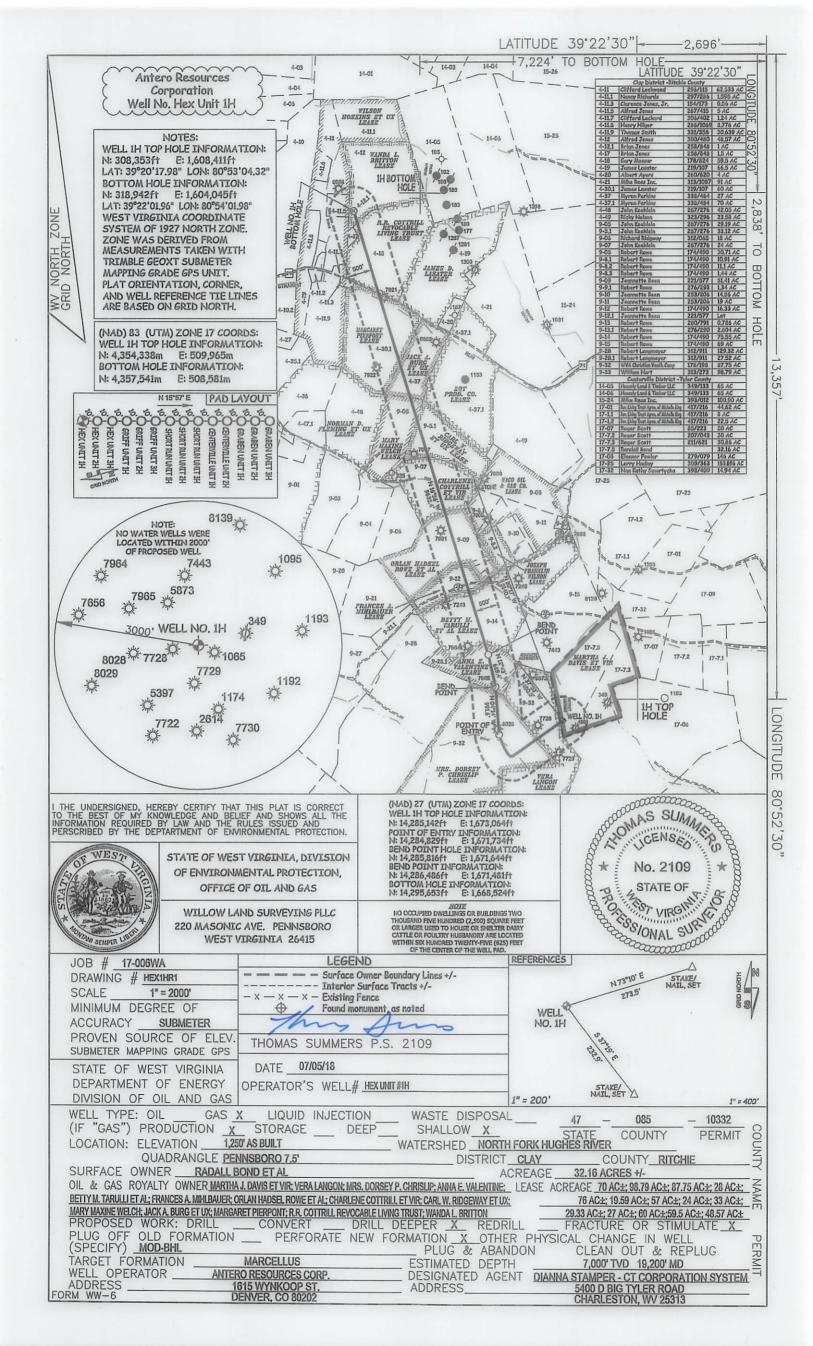


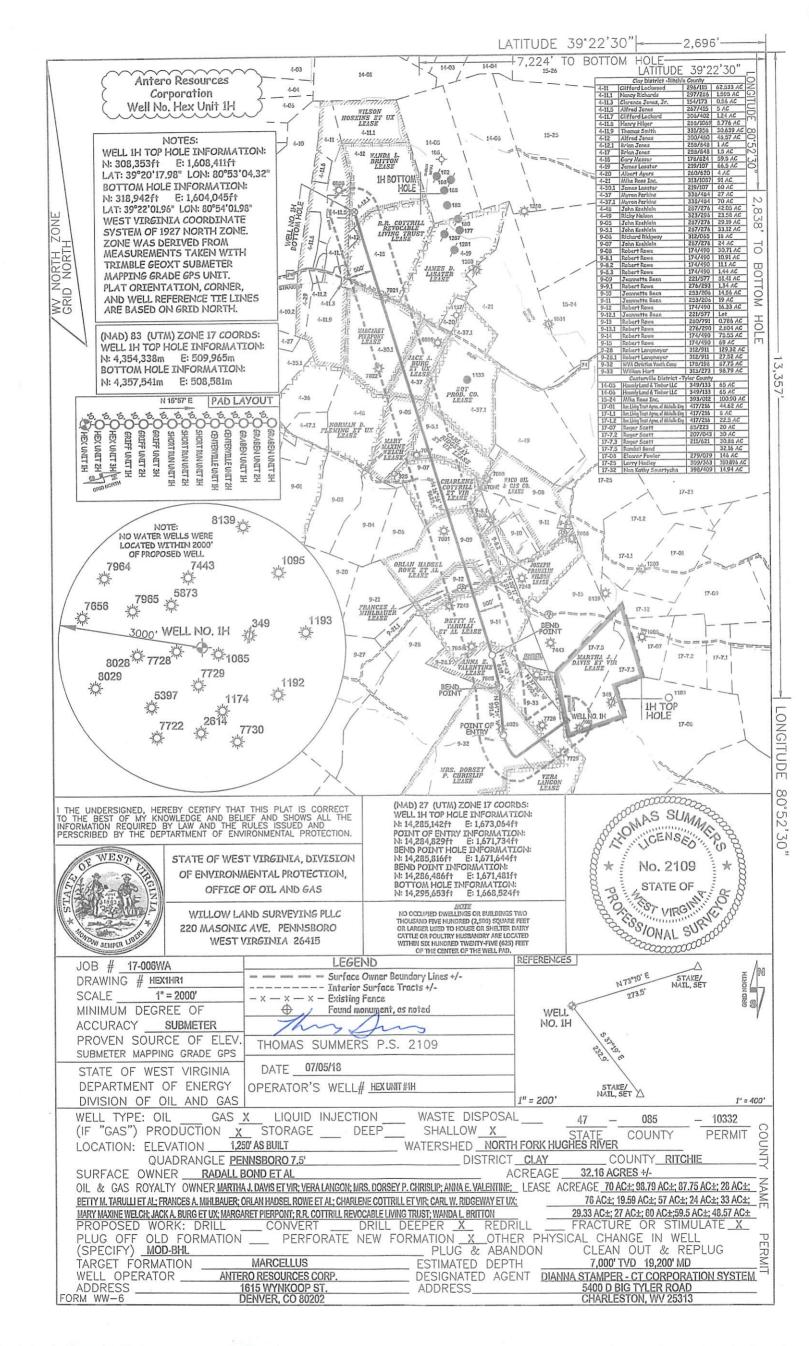
HEX UNIT 1H (HICHMAN PAD) - AREA OF REVIEW 35-8-5.11 PAGE 2

API# 47-085-10332 PERMIT MODIFICATION

(APINum)	Well Name	Well Number	Operator	Historical Operator	Œ	torical Operator TD Approx Distance to well ELEV_GR TD (SSTVD)	ELEV GR	TD (SSTVD)	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not nerfel
5079210000	PIERPOINT WILLIAM	Section 1	SCHULTZ RUN GAS	COASTAL CORP THE	5316	433	206	-4414	4411-4804	Riley, Benson	Rie Inim Wair Alexander
9079220000	PIERPOINT WILLIAM	2	SCHULTZ RUN GAS	COASTAL CORP THE	5245	89.3	1111	-4134	4615-5004	Riley Renson	Bir Inun Wair Alexander
5070070000	RIDGEWAY C & S ETAL	WK-171	ENERGY CORP OF AMER	KEPCO INCORPORATED	5995	09	1101	-4894	4576-4970	Rilay Benton	Die Inter More Alexander
85076910000	ROWE HADSEL	2550	ALLIANCE PETR CORP	UNION DRILLING CO	5460	28	11177	-4333	4616.5012	Beneral Alexander	De light, wen, Mexaline
85079640000	VALENTINE ANNA	1	TRIAD HUNTER LLC	APPALACHIAN ENGY DEV	5550	7	1251	-4799	4685,6371	biles been Alexander	big injun, well, kiley
0085079650000	VALENTINE ANNA	- 1	TRIAD HUNTER LLC	APPALACHIAN ENGY DEV	5500	198	1114	-4386	1155 5000	Roncon Alexander	Big injun, Weir
5080280000	DOTSON CLIFFORD ETAL	1	TRIAD HUNTER LLC	APPALACHIAN ENERGY	5350	88	983	-4367	4445-5149	Rilev. Benson. Alexander	Bie Injun, Weir, Miey







WW-6A1 (5/13)

Operator's Well No. Hex 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:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Wanda L. Britton Lease				
Wand	ia L. Britton	Antero Resources Appalachian Corporation	1/8 +	0253/0406
Antei	ro Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 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.

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 oil and Gas permit in no way overrides, replaces, or oil and Gas permits/approvals that may be necessary and further affirms that all netded permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Antero Resources Corporation	Environmental Protection
By:	Diana Hoff Mana U. 5	HVI
Its:	Vice President - Operations	Y -/

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Martha J. Davis, et vir Lease			
Martha J. Davis, et vir	Exxon Corporation	1/8	0209/0272
Exxon Corporation	XTO Energy, Inc.	Assignment	0359/0150
XTO Energy, Inc.	Antero Resources Corporation	Assignment	0423/0613
Vera Langon Lease			
Vera Langon	Appco Oil & Gas Corporation	1/8	0138/0430
Appco Oil & Gas Corporation	Appalachian Energy Reserves, Inc.	Assignment	0197/0734
Appalachian Energy Reserves, Inc.	Appalachian Energy Development, Inc.	Assignment	0229/0100
Appalachian Energy Development, Inc.	Triad Energy Corp of WV	Assignment	0229/0108
Triad Energy Corp of WV	Triad Hunter, LLC	Assignment	0250/0196
Triad Hunter, LLC	Antero Resources Corporation	Assignment	0270/0270
Mrs. Dorsey P. Chrislip Lease			
Mrs. Dorsey P. Chrislip	Appalachian Energy Reserves, Inc.	1/8	0210/0063
Appalachian Energy Reserves, Inc.	Appalachian Energy Development, Inc.	Assignment	0229/0100
Appalachian Energy Development, Inc.	Triad Energy Corporation	Assignment	0229/0108
Triad Energy Corporation	Triad Hunter, LLC	Assignment	0250/0196
Triad Hunter, LLC	Antero Resources Corporation	Assignment	0270/0270
Anna E. Valentine Lease			
Anna E. Valentine, widow	Eastern American Energy Corporation	1/8	0204/0309
Eastern American Energy Corporation	Appalachian Energy Reserves, Inc.	Assignment	0207/0556
Appalachian Energy Reserves, Inc.	Appalachian Energy Development, Inc.	Assignment	0229/0100
Appalachian Energy Development, Inc.	Triad Energy Corporation	Assignment	0229/0108
Triad Energy Corporation	Triad Hunter, LLC	Assignment	0250/0196
Triad Hunter, LLC	Antero Resources Corporation	Assignment	0270/0270
Date M. Tarrelli, et al. I acce		Office of S	7/VED 1 and Gas 168/0629 2040 0179/0609
Betty M. Tarulli, et al Lease	I S I Futamariana Inc	1/8 Assignment Assignment Assignment	and Gargo Josep
Betty M. Tarulli, et al	J & J Enterprises, Inc.	1/8 JUN 6	2.0170/0000
J & J Enterprises, Inc.	Eastern Penn. Exploration	Assignment Assignment My Departmental Propertion Assignment Assignment Name Change	2018 0179/0609
Eastern Penn. Exploration	Eastern American Energy Corporation	Assignment Environme Department	0218/018/
Eastern American Energy Corporation	Energy Corporation of America	Certificate of Merger Timental Pr	ont of 0006/0450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	^{018Cti} Oη
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Frances A. Muhlbauer Lease			
Frances A. Muhlbauer	Antero Resources Corporation	1/8+	0279/0390

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Orlan Hadsel Rowe, et al Lease			
Orlan Hadsel Rowe, et al	J & J Enterprises, Inc.	1/8	0196/0737
J & J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	0231/0732
Eastern American Energy Corporation	Enervest East Limited Partnership	Assignment	0233/0317
Enervest East Limited Partnership	The Houston Exploration Company	Assignment	0234/0890
The Houston Exploration Company	Seneca-Upshur Petroleum, Inc.	Assignment	0236/0650
Seneca-Upshur Petroleum, Inc.	Seneca-Upshur Petroleum, LLC	Assignment	0311/0863
Seneca-Upshur Petroleum, LLC	Antero Resources Appalachian Corporation	Assignment	0258/0987
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Charlene Cottrill, et vir Lease			
Charlene Cottrill, et vir	Antero Resources Appalachian Corporation	1/8+	0263/0589
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Carl W. Ridgeway, et ux Lease			
Carl W. Ridgeway, et ux	Chase Petroleum, Inc.	1/8	0157/0540
Chase Petroleum, Inc.	Kepco, Inc.	Assignment	0164/0198
Kepco, Inc.	J & J Enterprises, Inc.	Assignment	0208/0132
J & J Enterprises, Inc.	Eastern American Energy Corporation	Merger	0231/0732
Eastern American Energy Corporation	Energy Corporation of America	Certificate of Merger	0006/0450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0257/0397
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Mary Maxine Welch Lease			
Mary Maxine Welch	Antero Resources Appalachian Corporation	1/8	0256/0104
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Jack A. Burg, et ux Lease		Office of Oil	/ED and Gas 0161/0049 0179/0609
Jack A. Burg, et ux	J & J Enterprises, Inc.	1/8	and Gas 0161/0049
J & J Enterprises, Inc.	Eastern Pennsylvania Exploration	Assignment JUN 6	0179/0609
Eastern Pennsylvania Exploration	Eastern American Energy Corporation	Assignment	2018 0179/0609
Eastern American Energy Corporation	Energy Corporation of America	Certificate of Negret V Department	0006/0450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment Certificate of Merger V Departme Assignment Assignment Name Change	nt of 0257/0397
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Margaret Pierpont Lease			
Margaret Pierpont	Harvey Haymond	1/8	0205/0401
Harvey Haymond	Coastal Corporation	Assignment	0205/0547
Coastal Corporation	Pardee Gas Company	Merger	0004/0801
Pardee Gas Company	Pardee Exploration Company	Assignment	0208/0544
Pardee Exploration Company	Pardee Resources Group, Inc.	Merger	0005/0830
Pardee Resources Group, Inc.	Pardee Minerals, LLC	Merger	0006/0726
Pardee Minerals, LLC	Antero Resources Appalachian Corporation	Assignment	0256/0314
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
R. R. Cottrill Revocable Living Trust Lease			
R. R. Cottrill Revocable Living Trust	Antero Resources Corporation	1/8+	0293/0201



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Form CF-4

WV011 - 0416/2013 Webirs Kkmyr Odlisa

Natalio E. Tennant. Secretary of State 1900 Kanawha Bivd B Bldg 1, Suite 157-K Charleston, WV 25305

FILE ONE ORIGINAL (Two if you want a filted stamped copy returned to you) FEE: \$25:00



Penney Barker, Manager IN THE OFFICE OF Corporations Division CRETARY OF STATE Tel: (304)558-8000

Website: www.wvsos.com E-mail: business@wysos.com

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

Office Hours: Monday - Friday 8:30 a.m. - 5:00 p.m. BT

**** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby **** applies for an Amended Certificate of Authority and submits the following statement: 1. Name under which the corporation was Antero Resources Appalachian Corporation authorized to transact business in WV: 2. Date Certificate of Authority was 6/25/2008 issued in West Virginia: Antero Resources Corporation 3. Corporate name has been changed to: (Attach one Certified Copy of Name Change as filed in home State of incorporation.) Antero Resources Corporation Name the corporation elects to use in WV: (due to home state name not being available) 5. Other amendments: (attach additional pages if necessary 6. Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.) Alwn A. Schopp (303) 357-7310 Contact Name Phone Number 7. Signature information (See below *Important Legal Notice Regarding Signature): Title/Capacity: Authorized Person Print Name of Signer; Allyn A. Schopp Signature: June 10, 2013 Date: -*Important Legal Notice Repartitue Standards: Per West Virginia Code §311)-1-129. Penalty for signing false document.

Any person value signs a document he or she knows is thise in any material respect and knows that the document is to be delivered of the office of Oil and Cas thousand dollars or confined in the county or regional jail not more than one year, or both. Department of onmental Protection

listed by the Office of the Secretary of Siste -







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

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Ms. Laura Adkins 601 57th Street Charleston, WV 25304

Ms. Laura Adkins:

Antero Resources Corporation (Antero) would like to submit the following permit updates for Graben Unit 1H. We shifted the lateral well bore and need to modify the permit. Please see the table below for other wells on the Hichman pad that will need the following modifications. All wells are currently at Intermediate casing.

Wells Modifying	Wells dropping to be plugged	Wells moving less than 50' no modification needed.
Short Run Unit 2H	Graben Unit 2H	Centerville Unit 2H
Griff Unit 2H	Centerville Unit 1H	Short Run Unit 1H
Hex Unit 1H	Hex Unit 2H	Hex Unit 3H
Graben Unit 1H	Griff Unit 1H	Griff Unit 3H

Attached you will find the following:

- REVISED Mylar Plat
- ➤ REVISED WW-6B
- > REVISED WW 6A1

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 Supervisor

Antero Resources Corporation

Enclosures

RECEIVED Gas

11IN 6 2018

W Department of Environmental Protection