

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

Re:

Permit Modification Approval for SHORT RUN UNIT 2H

47-085-10340-00-00

Lateral shift

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: SHORT RUN UNIT 2H

Farm Name: RADALL BOND ET AL

U.S. WELL NUMBER: 47-085-10340-00-00

Horizontal 6A New Drill

Date Modification Issued: July 11, 2018

Promoting a healthy environment.

WW-6B (04/15) API NO. 47- 085 - 10340

OPERATOR WELL NO. Short Run Unit 2H

Well Pad Name: Hichman Pad

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

1) Well Operator	r: Antero Re	sources Corpo	rai 494507062	085 - Ritchie	Clay	Pennsboro 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's W	ell Number: S	hort Run Unit 2	H Well Pag	d Name: Hichm	nan Pad	
3) Farm Name/S	urface Owner:	Radall Bond e	et al Public Roa	ad Access: CR-	74/4 (Bond	d Run)
4) Elevation, cur	rent ground:	1250'	Elevation, proposed	post-construction	on:	
5) Well Type	(a) Gas X	Oil	Unde	erground Storag	e	
	Other					
	(b)If Gas Sh	nallow X	Deep	·		
	Но	orizontal X				
6) Existing Pad:	Yes or No Ye	es	II.	_		
			ticipated Thickness a			
Marcellus Sha	le: 7000' TVD,	Anticipated Thick	ness- 75 feet, Associa	ated Pressure- 2	800#	
8) Proposed Total	al Vertical Dep	oth: 7000' TVD				
9) Formation at 7	Total Vertical	Depth: Marcell	us			
10) Proposed To	tal Measured I	Depth: 19300'				
11) Proposed Ho	orizontal Leg L	ength: 10566'	1183	1 ougher		
12) Approximate	Fresh Water	Strata Depths:	170', 238', 341'			
13) Method to D	etermine Fresh	Water Depths:	Offset well records. De	pths have been adj	usted accordi	ng to surface elevations.
14) Approximate	Saltwater De	pths: 2050', 203	33', 1668'			
15) Approximate	Coal Seam D	epths: 868', 16	75'			
16) Approximate	Depth to Poss	sible Void (coal i	mine, karst, other):	None Anticipat	ed	
17) Does Propos directly overlyin				No	<u>X</u>	
(a) If Yes, prov	vide Mine Info	Name:				
()		Depth:				Office of Oil and Gas
		Seam:				U.L.
		Owner:				50N 6 2010
					E	WV Department of Protection

WW-6B (04/15) API NO. 47- 085 - 10340

OPERATOR WELL NO. Short Run Unit 2H

Well Pad Name: Hichman 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#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	395' *see #19	395' *see #19 V	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#	19300'	19300' V	4899 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	
Sizes:	N/A	REOL
Depths Set:	N/A	Office of Oil and Gas
		WV Department of Environmental Protection

API# 47-085-10340 PERMIT MODIFICATION

WW-6B (10/14) API NO. 47- 085 - 10340

OPERATOR WELL NO. Short Run Unit 2H

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 Ga

WV Department or

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.



Office of Oil and Gas

Environmental Protection



Short Run Unit 2H - AOR



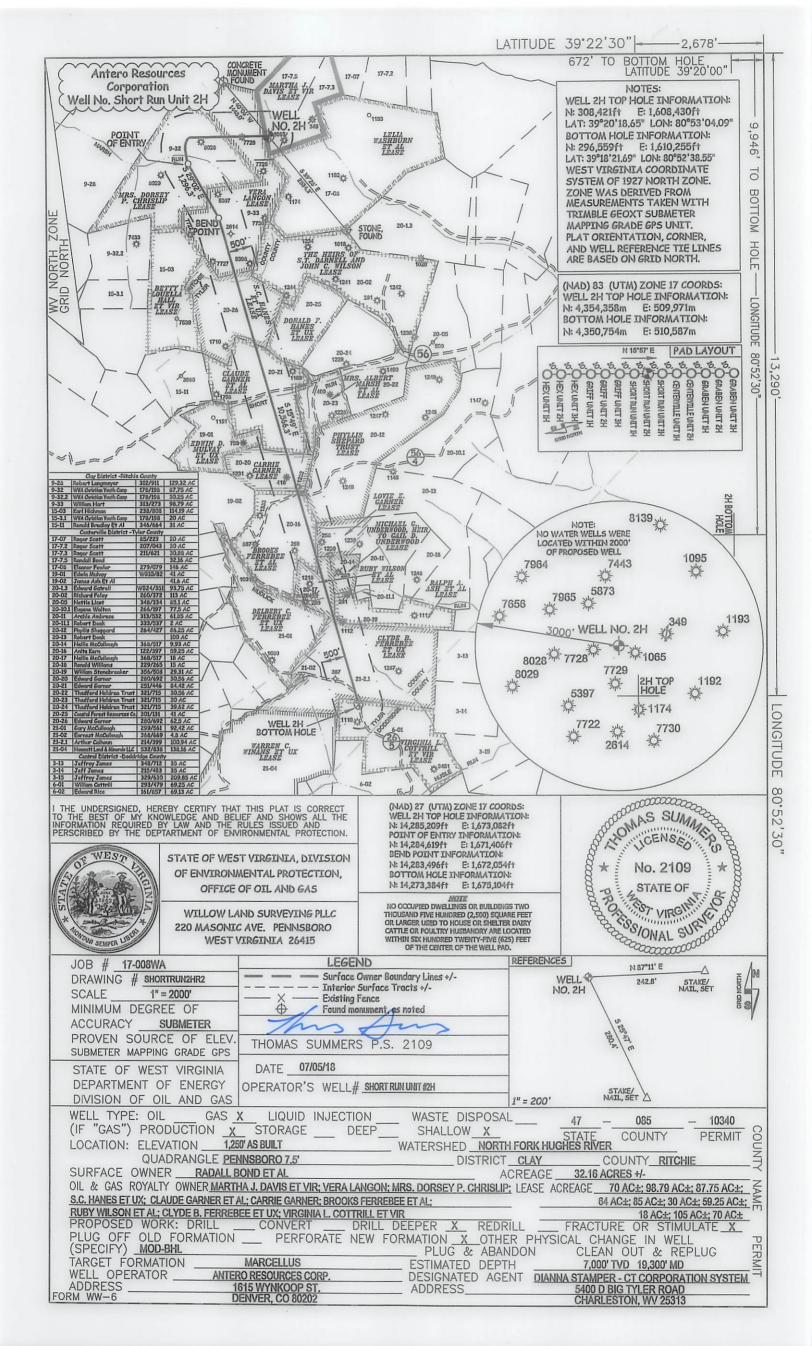


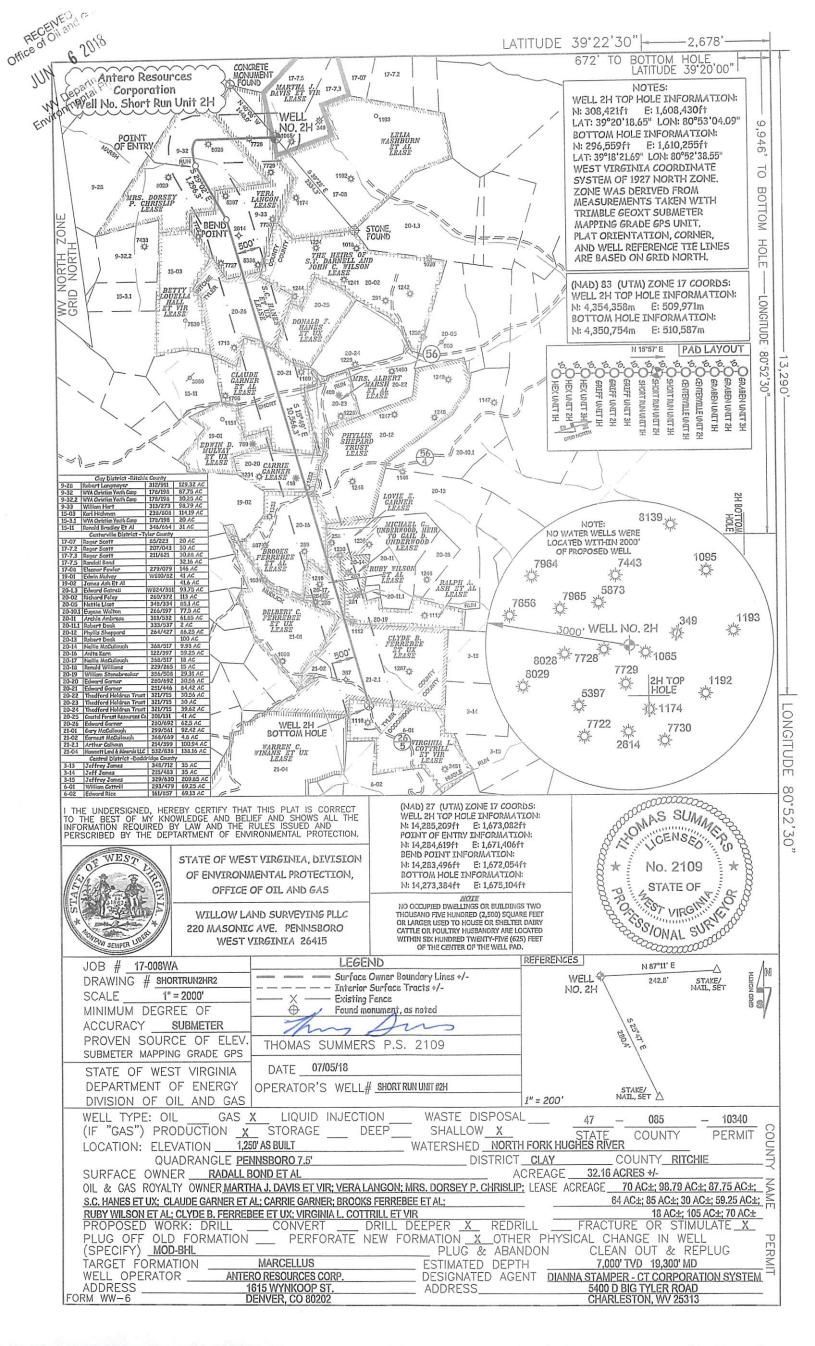
July 5, 2018

API# 47-085-10340 PERMIT MODIFICATION

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	ТБ
47095011100000	COTTRILL VIRGINIA L	JK-1212	ENERGY CORP OF AMER	J & J ENTERPRISES	5991
47095011120000	ASH DALE JR HEIRS	JK-1210	ENERGY CORP OF AMER	J & J ENTERPRISES	5987
47085077220000	LANGON VERA	8	TRIAD HUNTER LLC	APPALACHIAN ENGY DEV	5908
47095012320000	GARNER CLAUDE	3	TRIAD HUNTER LLC	APPALACHIAN ENGY DEV	5717
47085077270000	LANGON VERA		TRIAD HUNTER LLC	APPALACHIAN ENGY DEV	2666
47095012160000	MERRIT MARY & NANCY	1	TRIAD HUNTER LLC	APPALACHIAN ENERGY	5555
47085053970000	LANGON VERA	2	TRIAD HUNTER LLC	APPCO OIL & GAS CORP	5418
47095017100000	HANES	1	KEY OIL COMPANY	KEY OIL COMPANY	5384
47085080280000	DOTSON CLIFFORD ETAL	1	TRIAD HUNTER LLC	APPALACHIAN ENERGY	5350
Approx Distance to well	ELEV_GR	(dVTSS) OT	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
196	1149	-4842	4601-5302	Riley, Benson, Alexander	Big Injun, Weir, Warren
344	1064	-4923	4516-5220	Riley, Benson, Alexander	Big Injun, Weir, Gordon
396	1255	-4653	4731-5424	Riley, Benson, Alexander	Big Injun, Weir, Warren
100	1130	-4587	4595-5294	Riley, Benson, Alexander	Big Injun, Weir, Gordon
187	1265	-4401	4735-5439	Riley, Benson, Alexander	Big Injun, Weir, Warren
209	1084	-4471	4549-5252	Riley, Benson, Alexander	Big Injun, Weir, Warren
284	1068	-4350	4520-5226	Riley, Benson, Alexander	Big Injun, Weir, Gordon
400	1120	-4264	4526-5209	Riley, Benson, Alexander	Big Injun, Weir, Warren
341	886	-4367	4445-5149	Riley, Benson, Alexander	Big Injun, Weir, Gordon







WW-6A1 (5/13)

Operator's Well No. Short Run 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Virginia L. Cottrill, et vir Lease				
Virginia	L. Cottrill, et vir	J & J Enterprises, Inc.	1/8	0141/0216
J & J Enterprises, Inc.		Eastern American Energy Corporation	Assignment	0211/0137
Eastern American Energy Corporation		Energy Corporation of America	Certificate of Merger	0371/0528
Energy Corporation of America		Antero Resources Appalachian Corporation	Assignment	0398/0416
Antero	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

Environmental Protection verrides, replaces, or

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:	Diana Hoff
Its:	VP - Operations

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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
S.C. Hanes et ux Lease			
S.C. Hanes et ux	J.L. Newman	1/8	0069/0086
J.L. Newman	The Philadelphia Company	Assignment	0455/0390
The Philadelphia Company	Pittsburg and West Virginia Gas Company	Assignment	0101/0036
Pittsburg and West Virginia Gas Company	Equitable Gas Company	Assignment	0132/0445
Equitable Gas Company	Equitrans, Inc.	Assignment	0274/0471
Equitrans, Inc.	Equitable Production – Eastern States, Inc	Assignment	0342/0024
Equitable Production – Eastern States, Inc	EQT Production Company	Name Change	0009/0086
EQT Production Company	Antero Resources Corporation	Assignment	0009/0086 Office of Oil and Gas
			6 20.
			WV Department of Environmental Protection
			Protection

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Claude Garner et al Lease			
Claude Garner et al	J&J Enterprises, Inc.	1/8	0263/0503
J&J Enterprises, Inc.	Eastern American Energy Corporation	Assignment	0231/0732
Eastern American Energy Corporation	Energy Corporation of America	Assignment	0006/0450
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0398/0416
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Antero Resources Apparachian corporation	Antero Resources corporation	Nume change	
Carrie Garner Lease			
Carrie Garner	Lyle K Baker and Marcine Baker, his wife DBA Baker	1/8	0174/0146
	Development Company Co., Lyle Baker Agent		
Lyle K Baker and Marcine Baker, his wife DBA	Carole of Canada INC, Fluharty Enterprises INC,	Assignment	0228/0449
Baker Development Company Co., Lyle Baker	Vernon G Frame, PA		
Agent Carole of Canada INC, Fluharty Enterprises INC,	F.C. & F. Partnership, Limited, by Fluharty	Assignment	0232/0053
Vernon G Frame, PA	Enterprises Inc	Assignment	0232/0033
F.C. & F. Partnership, Limited, by Fluharty	Appalachian Energy Reserves, Inc	Assignment	0271/0487
Enterprises Inc		13 made, Aut 20, — Anny production for the control of	
Appalachian Energy Reserves, Inc	Appalachian Energy Development, Inc.	Assignment	0329/0519
Appalachian Energy Development, Inc.	Triad Energy Corporation of West Virginia	Assignment	0329/0538
Triad Energy Corporation of West Virginia	Viking International Resources Co	Assignment	0333/0230
Viking International Resources Co	Triad Energy Corporation	Assignment	0338/0164
Triad Energy Corporation	Triad Hunter LLC	Assignment	0371/0605
Triad Hunter LLC	Antero Resources Corporation	Assignment	0573/0001
Brooks Ferrebee et al Lease			
Brooks Ferrebee et al	Petroleum Service	1/8	0226/0323
Petroleum Services	Magnum Oil	Assignment	0228/0180
Magnum Oil	Perkins Production Company	Assignment	0537/0373
Perkins Production Company	Antero Resources Corporation	Assignment	0537/0378
Pubu Milan at al I acca		Ost RI	ECEIVED of Oil and Gap269/0643
Ruby Wilson et al Lease	Fundamental trans	Office o	of Oil and Garago 19643
Ruby Wilson et al Excelco, Inc.	Excelco, Inc. Appalachian Energy Development, Inc	1/8 Assignment /////	0270/0045
Appalachian Energy Development, Inc.	Triad Energy Corporation of West Virginia	Assignment	6 2018 0333/0230
Triad Energy Corporation of West Virginia	Viking International Resources Co	Assignment _ WV Do.	0338/0164
Viking International Resources Co	Triad Energy Corporation	Assignment Environmen	partment of 0338/0164
Triad Energy Corporation	Triad Hunter LLC	Assignment	0338/0164 Partment of 0338/0164 Intal Protection 0371/0605
Triad Hunter LLC	Antero Resources Corporation		0573/0012
THOU HUME! LLC	Antero Resources Corporation	Assignment	03/3/0012

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Clyde B. Ferrebee et ux Lease			
Clyde B. Ferrebee et ux	Sefco Enterprises Inc	1/8	0271/0541
Sefco Enterprises Inc	Robert P. Davis	Assignment	0274/0462
Robert P. Davis	Key Oil Co.	Assignment	0274/0468
Key Oil Co.	Antero Resources Appalachian Corporation	Assignment	0383/0342
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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FORM WW-6A1 FXHIBIT 1



JUN 1 0 2013

Natalie E. Tennant Scoretary of State 1900 Kanawha Bivd E Bldg 1, Suite 157-K Charleston, WV 25305

FILE ONE ORIGINAL (Two if you want a filed stamped copy returned to you) FEE: \$25.00



Penney Barker, Manager
IN THE OFFICE OF Corporations Division
CRETARY OF STATE Pax: (304)558-8381
Webbile: www.uvess.com

Website: www.wvsos.com
B-mail: business@wvsos.com

APPLICATION FOR

AMENDED CERTIFICATE

OF AUTHORITY

Office Hours: Monday — Friday 8:30 a.m. — 5:00 p.m. ET

**** 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 Conv of Name Change as filed in home State of incorporation.) Antero Resources Corporation 4. 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 *Iunoriant Legal Notice Regarding Signature): Title/Capacity: Authorized Person Print Name of Signer: Abyn A. Schop Office of Oil and June 10, 2013 Signature: Date: and Gas **Important Lena! Notice <u>Reparding Signaturg</u>: Pe*r West Virginia Code <u>631D-1-129</u>. Penalty for signing false document. Wv Departme Any person who signs a document he or she knows is false in any material respect and knows that the document is to be delivered Environmental Pro to the secretary of state for filing is guilty of a misdemeaner and, upon conviction thereof, shall be fined not more than one thousand dollars or confined in the county or regional jail not more than one year, or both. tection

Porm CF-4

listed by the Office of the Secretary of State .

Revised 4/13



July 5, 2018



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
Short Run Unit 2H	Graben Unit 2H	modification needed.
		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

111N 6 5018

WV Department of Environmental Protection