

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

PERMIT MODIFICATION APPROVAL

November 10, 2015

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit Modification Approval for API Number 1706727, Well #: NOVA UNIT 2H

Extend Lateral Length

Oil and Gas Operator:

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.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Laylor Blee

Gene Smith

Assistant Chief of Permitting

Office of Oil and Gas



October 16, 2015

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. Melanie Hankins 601 57th Street Charleston, WV 25304

Ms. Hankins:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for two approved wells on the Cofor Pad. We are requesting to extend the horizontal lateral lengths which will change the bottom hole locations of the Nova Unit 1H (API# 47-017-06726) and Nova Unit 2H (API# 47-017-06727.)

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the revised lateral length, Measured Depth and Production Casing/Cement program
- > REVISED Form WW-6A1, which shows the new leases we will be drilling into
- REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7323.

Thank you in advance for your consideration.

' Sincerely,

Antero Resources Corporation 47 0 17 0 67 27 Med

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RECEIVED Office of Oil and Gas

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WV Department of **Environmental Protection**

Enclosures

API# 47-017-06727 PERMIT MODIFICATION

	API NO. 47- 017	_ 06727		_
V	OPERATOR W	ELL NO.	Nova Unit 2H	_
	Well Pad Nan	oe Cofor	Pad	

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

1) Well Operator: Antero Resource	es Corporal	494488557	017-Doddrid V	Vest Uni	West Union 7.5'
		Operator ID	County I	District (Quadrangle
2) Operator's Well Number: Nova L	Jnit 2H	Well Pa	d Name: Cofor P	ad	
3) Farm Name/Surface Owner: Coasta	al Forest Resources C	Public Roa	ad Access: CR 11	1/8	
4) Elevation, current ground: 1189	9' Εlε	evation, proposed	post-construction	: 1189'	1
5) Well Type (a) Gas X	Oil	Und	erground Storage		
Other					
(b)If Gas Shallow	X	Deep			
Horizon	ital X				
6) Existing Pad: Yes or No Yes			_		
 Proposed Target Formation(s), De Marcellus Shale: 7900' TVD, Antici 		50 Sec. 1989 - 198	was the control of the same		
8) Proposed Total Vertical Depth: 7	7900' TVD				
9) Formation at Total Vertical Depth		Shale	(20)		
10) Proposed Total Measured Depth:	21900' ME)*	47017	0672	5 7 MPA
11) Proposed Horizontal Leg Length	13382'				
12) Approximate Fresh Water Strata	Depths:	120'			
13) Method to Determine Fresh Wate 14) Approximate Saltwater Depths:		outback Unit 1H	(API# 47-17-065	18) on sa	me pad.
15) Approximate Coal Seam Depths:					
16) Approximate Depth to Possible V	Void (coal min	ne, karst, other):	None anticipated	d	
17) Does Proposed well location con directly overlying or adjacent to an a		Yes	No >	<	
(a) If Yes, provide Mine Info: Na	me:				
De	epth:				ED Gas
Sea	am:			RECEIV	and
Ow	vner:		ef	ice of O.	2015
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WW-6B
(04/15)

API# 47-017-06727 PERMIT MODIFICATION

API NO. 47- 017 _ 06727

OPERATOR WELL NO. Nova Unit 2H

Well Pad Name: Cofor 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#	40'	40'	CTS, 38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	300'	300'	CTS, 417 Cu. Ft
Coal	9-5/8"	New	J-55	36#	2440'	2440'	CTS, 993 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	21900'	21900'	5632 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	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							

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PACKERS

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		CWED, Gas

Office of Oil and Gas

Office of Oil and Gas

Office of Oil and Gas

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WY Department of Protection

Environment of 19/13/2015

WW-6E	
(10/14)	

API# 47-017-06727 PERMIT MODIFICATION API NO. 47-017 - 06727

OPERATOR WELL NO. Nova Unit 2H

Well Pad Name: Cofor Pad

10) Describe	nronosed	well	work	incl	hiding	the	drilling a	nd n	lugging	hack	of ans	nilot	hole:
17	Describe	proposed	WEII	WUIK,	11101	iuuiiig	шс	un ninning a	mu p	iugging	Uack	or any	(biiot)	noic.

Drill, perforate, fracture a new horizontal shallow well and complete 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): 50.15 existing acres
- 22) Area to be disturbed for well pad only, less access road (acres): 3.70 existing 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 7 0 1 7 0 6 7 2 7 MeV

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride

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.

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 top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate to 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.

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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
Alice Maxwell, et al Lease			
Alice H. Maxwell, et al	Carl D. Perkins & William Paul McCutchan	1/8	0063/0111
Carl D. Perkins & William Paul McCutchan, et al	Justin L. Henderson	Assignment	0104/0689
Justin Henderson	P.D. Farr II	Assignment	0109/0385
P.D. Farr II	Antero Resources Appalachian Corporation	Assignment	0271/0546
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Gleneva Murray, et al Lease			
Gleneva Murray, et al	Murvin Oil Company	1/8	0174/0112
Murvin Oil Company	Murvin & Meier Oil Company	Assignment	0179/0193
Murvin & Meier Oil Company	Tenmile Land, LLC	Assignment	0252/0609
Tenmile Land, LLC	Antero Resources Appalachian Corporation	Assignment	0261/0014
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Estella Goodfellow Lease			
Estella Goodfellow	Antero Resources Corporation	1/8+	0380/0196
Mary Maxine Welch Lease			
Mary Maxine Welch	Antero Resources Appalachian Corporation	1/8+	0271/0060
Mary Maxine Welch	Antero Resources Appalachian Corporation	1/8+	0271/0066
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit1
Richard Murray II Lease			
Richard Patrick Murray, II	Antero Resources Appalachian Corporation	1/8+	0266/0585
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
J. Davis, et al Lease	Autora December Auralia Irian Commentian	1/0.	0202/0120
Jonathan L. Davis, et al	Antero Resources Appalachian Corporation	1/8+	0283/0130
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Haught Family Trust Lease	4701706	Name Change Name Change RECEIVED GRE RECEIVED GRE Name Change Office Change	
Haught Family Trust (dated April 17, 1989)	Antero Resources Appalachian Corporation	ake oil al.	0263/0482
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
		Office OCT 19 20 Cent	Of HON

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

CONTINUED ON NEXT PAGE

Nova Unit 2H PERMIT MODIFICATION API# 47-017-06727

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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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
S. L. Ford, et ux Lease			
S.L. Ford, et x	J.L. Neuman	1/8	0021/0172
J.L. Neuman	The Philadelphia Company	Assignment	0106/0474
The Philadelphia Company	Pittsburgh and West Virginia Gas Company	Assignment	DB 0045/0102
Pittsburgh & West Virginia Gas Company	Equitable Gas Company	Assignment	0121/0257
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	Equitrans, L.P.	Merger	Recited in 302/0123
Equitrans, L.P.	Equitable Production-Eastern States, Inc.	Assignment	0192/0019
Equitable Production – Eastern States, Inc.	Equitable Production Company	Merger	Exhibit 2
Equitable Production Company	EQT Production Company	Name Change	DB 0281/0346
EQT Production Company	Antero Resources Corporation	Assignment	0325/0539
Nelda Lou King Lease			
Nelda Lou King Lease	Antero Resources Corporation	1/8+	0310/0559
Neida Lou King	Antero Resources Corporation	1/8+	0310/0339
Eugene V. Chipps, II Lease			
Eugene V. Chipps, et ux	Devonian Appalachian Co.	1/8	0161/0214
Devonian Appalachian Co.	New Freedom Energy, LLC	Assignment	0203/0346
New Freedom Energy, LLC	Antero Resources Corporation	*Partial Assignment of	0336/0127
		Oil & Gas Leases	
James Douglas White Lease			
James Douglas White	Antero Resources Corporation	1/8+	0313/0688
	47	0170672710	L

*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.

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Office of Oil and Gas

Office of Oil and Gas

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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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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Lewis Maxwell, et al Lease			
Lewis Maxwell, et al	G.H. Trainer & J.E. Trainer	1/8	0030/0068
G.H. Trainer & J.E. Trainer	W.W. Hepburn	Assignment	0034/0244
W.W. Hepburn	Eastern Petroleum Company	Assignment	0034/0256
Eastern Petroleum Company	Clifton Oil & Gas Company	Assignment	DB 0081/0114
Clifton Oil & Gas Company	Quaker State Oil Refining Corporation	Deed & Deed of Assignment	0056/0165
Quaker State Oil Refining Corporation	QSE & P, INC.	*Partial Assignment of Oil & Gas Lease Agreement	0159/0595
QSE & P, INC.	Belden & Blake Corporation	Assignment, Conveyance and Bill of Sale	0175/0466
Belden & Blake Corporation	Peake Energy, INC.	Assignment, Conveyance and Bill of Sale	0181/0114
Peake Energy, Inc.	North Coast Energy Eastern, Inc.	Certificate of Amendment to the Certificate of Authority	DB 0249/0343
North Coast Energy Eastern, Inc.	EXCO-North Coast Energy Eastern, Inc.	Affidavit of Name Change	DB 0277/0068
EXCO-North Coast Energy Eastern, Inc.	EXCO Resources (WV), Inc.	Certificate of Amendment to the Certificate of Authority	Exhibit 3
EXCO Resources (WV), Inc.	EXCO Production Company (WV), LLC	Certificate of Merger	Exhibit 4
EXCO Production Company (WV), LLC	Antero Resources Appalachian Corporation	Assignment, Bill of Sale & Conveyance	0285/0084
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit1

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

**CONTINUED ON NEXT/PROZEO*15

API# 47-017-06727 PERMIT MODIFICATION

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
Edwin Cain, et ux Lease				
Ed	win Cain, et ux	The Carter Oil Company	1/8	0016/0085
Th	e Carter Oil Company	Hope Natural Gas Company	Assignment	0042/0410
Ho	ppe Natural Gas Company	Consolidated Gas Supply Corp.	Confirmatory Deed	DB 0143/0345
Co	nsolidated Gas Supply Corporation	Consolidated Gas Transmission Corp.	Confirmatory Deed	0135/0583
Со	insolidated Gas Transmission Corporation	CNG Transmission Corporation	Amended Certificate of Authority	AOI 0051/0795
CN	IG Transmission Corporation	Dominion Transmission, Inc.	Amended Certificate of Authority	AOI 0058/0362
Do	ominion Transmission, Inc.	CONSOL Energy Holdings, LLC XVI	Assignment	0245/0001
co	NSOL Energy Holdings, LLC XVI	CNX Gas Company, LLC	Affidavit of Name	DB 0292/0469
			Changes & Merger	
CN	IX Gas Company, LLC	Antero Resources Corporation	*Partial Term Assignment of Oil & Gas Leases	0317/0379

*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 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.

permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation

4701706727 Mg/9s:

Kevin Kilstrom

VP of Production

Wy Roll Protect 11/13/2015

FILED JUN 1 0 2013

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

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



Penney Barker, Manager
IN THE OFFICE OF Corporations Division
SECRETARY OF STATE Fax: (304)558-8381

Website: www.wysos.com

B-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 Vi applies for an Amended Cortificate of Auf	irginia Code, the undersigned corporation hereby **** hority and submits the following statement:	
1.	Name under which the corporation was authorized to transact business in WV:	Antero Resources Appalachian Corporation	
2.	Date Certificate of Authority was issued in West Virginia:	6/25/2008	
3.	Corporate name has been changed to: (Attach one Cartified Copy of Name Change	Antero Resources Corporation	
4.	ns filed in home State of incorporation.) Name the corporation elects to use in WV: (due to home state name not being available)	Antero Resources Corporation	100
5.	Other amendments: (attach additional pages if necessary)		
	(anaon additional pages in necessary)		
	:		
6.	the filing, listing a contact person and phone num document.) Alvyn A. Schopp	(303) 357-7310	
	Contact Name	Phone Number	
7.	Signature information (See below *Innortant ! Print Name of Signer: Alayn A. Schopp	Title/Capacity: Authorized Person	27 Mor
	Signature: 4577 anspp	Date:	
Any to th	wartant Lean Notice Regardius Signature: Per West Virgis person who signs a document ha or she knows is false in any se secretary of state for filing is guilty of a misdementor and, send dollars or confined in the county or regional juli not me	y material respect and knows that the document is to be delivered upon conviction thereof, shall be fined not more than one	d Gas
Ponn	CP-4 I stated by the Office	o of the Secretary of Siato	2015:
V013 - 047-6/2013 Walkins Klamvr Oxilias			artment of tection
		Wy De	nental V 11/13/2015
		EWING	



I, Joe Manchin III, Secretary of State of the State of West Virginia, hereby certify that

by the provisions of Chapter 31 of the West Virginia Code, Articles of Merger were received and filed MERGING EQUITABLE PRODUCTION - EASTERN STATES, INC., A QUALIFIED DE ORGANIZATION, WITH AND INTO EQUITABLE PRODUCTION COMPANY, A QUALIFIED ORGANIZATION.

Therefore, I hereby issue this

CERTIFICATE OF MERGER



4701706727 MOD

Given under my hand and the Great Seal of the State of West Virginia on this day of June 28, 2001

Office of Sur And Gas

OCT 1 Secretary of State

WV Department of Environmental Prof. 2015



I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

an Amended Certificate of Authority of

EXCO - NORTH COAST ENERGY EASTERN, INC.

was filed in my office as required by the provisions of the West Virginia Code and was found to conform to law.

Therefore I issue this

CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF AUTHORITY

changing the name of the corporation to

EXCO RESOURCES (WV), INC.

4701706727MoD



Given under my hand and the Great Seal of the State of West Virginia on this day of December 2, 2009

Material Exposition

Secretary of State

WV Departification

Environmental Protection

11/13/2015

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Will.

াহানিক্তি ক্ষিত্ৰ বিষয় হৈ নিমুক্তৰ সংগ্ৰহণ । এনুক্তি । বিষয়েক বিশ্বিত আছে এনুকুল কি হানিক ছেল প্ৰতি বিষয়েক ক্ষেত্ৰিক বিশ্বনিক ক্ষেত্ৰ কৰে বিশ্বনিক একি চুক্তিৰ

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I, Natalie E. Tennant, Secretary of State of the State of West Virginia, hereby certify that

EXCO RESOURCES (WV), INC.

(A Delaware Corporation)

filed Articles of Conversion in my office as required by the provisions of the West Virginia Code and was found to conform to law.

Therefore, I issue this

17.06727 MOT CERTIFICATE OF CONVERSION

Converting the corporation to:

EXCO RESOURCES (WV) ALL

(A Delaware Limited Liability Company)



Given under my hand and the Great Seal of the State of West Virginia on July 7 20 FOLVED

Office of Oil and Gas

11/13/2015

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