



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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

January 10, 2017
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for WESTERN UNIT 2H
47-085-10294-00-00

Lateral Extension

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: WESTERN UNIT 2H
Farm Name: DARRELL A. NOLAND ET AL
U.S. WELL NUMBER: 47-085-10294-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: January 10, 2017

Promoting a healthy environment.

01/13/2017

API# 47-085-10294 PERMIT MODIFICATION

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

1) Well Operator: Antero Resources Corporation 494507062 085 - Ritchie Clay Pennsboro 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Western Unit 2H Well Pad Name: Existing Noland Pad

3) Farm Name/Surface Owner: Darrell A. Noland, et al Public Road Access: CR 50/22

4) Elevation, current ground: 1143' Elevation, proposed post-construction: 1143'

5) Well Type (a) Gas Oil Underground Storage
Other
(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6500' TVD, Anticipated Thickness- 75 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19600' MD

11) Proposed Horizontal Leg Length: 11602'

12) Approximate Fresh Water Strata Depths: 54', 135', 227'

13) Method to Determine Fresh Water Depths: Fresh Water Depths from Penns Park Unit 1H (API# 47-085-10099) on same pad.

14) Approximate Saltwater Depths: 1658', 1705', 1747'

15) Approximate Coal Seam Depths: 798', 1225'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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API# 47-085-10294 PERMIT MODIFICATION

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	19600'	19600'	4982 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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-HPOZ & 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			
Depths Set:	N/A			

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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.

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): 18.62 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.85 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:

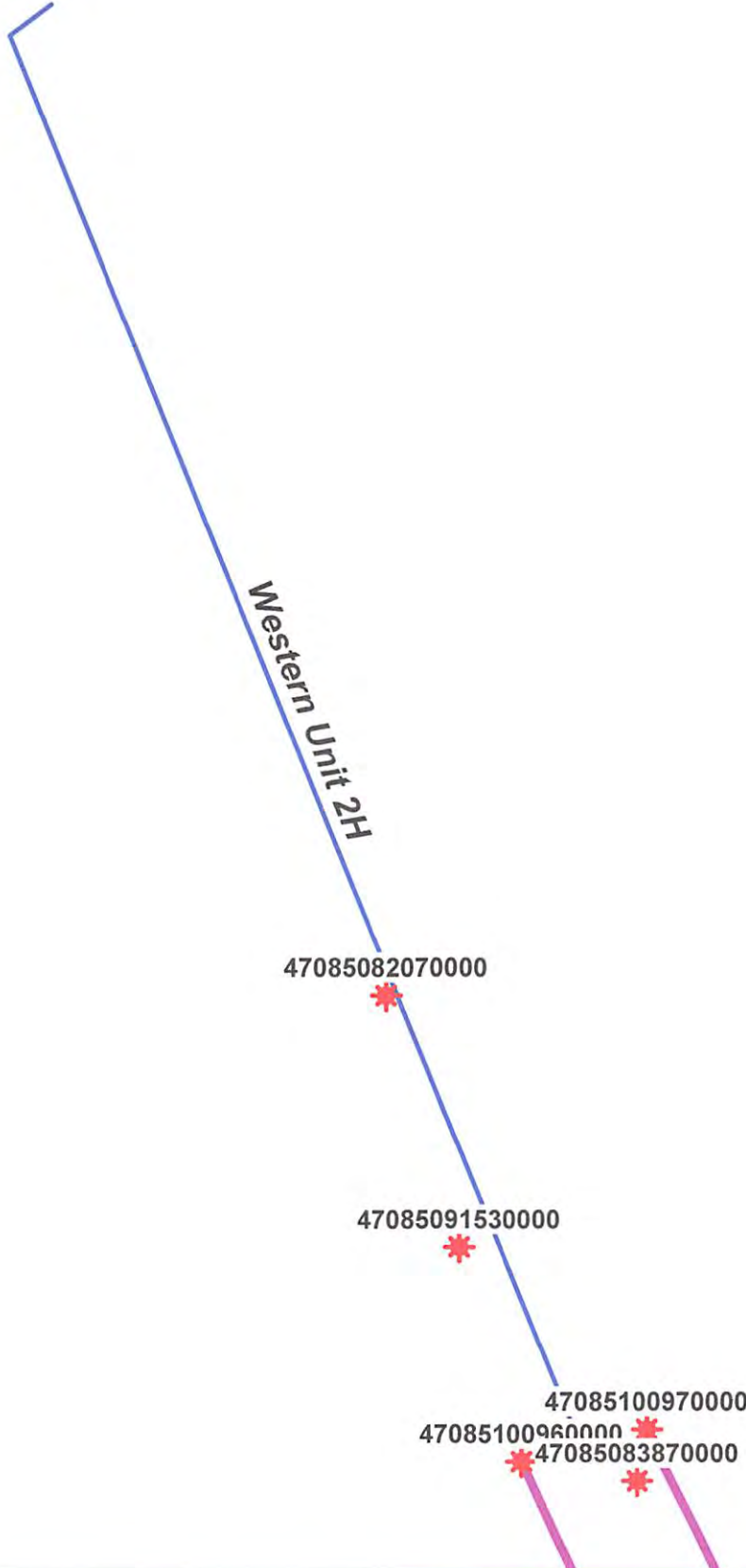
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: 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.

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AOR Western-Piper Units



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WESTERN UNIT 2H (NOLAND PAD) - AREA OF REVIEW 35-8-5.11 PAGE 2

UWI (APINum)	Well Name	Operator	TD	ELEV_GR	TD (SSTVD)	Gross Perf Interval (ft)	Producing Formations	Producible formations not Perf'd
47085091530000	WILSON	GASSEARCH CORPORATN	4880	966	-3914	1932-4713	Big Injun, Balltown, Riley, Benson	Keener, Weir, Berea, Gordon, Warren, Speechley, Bradford, Alexander
47085083870000	TAYLOR E R HEIRS ET AL	ENERGY CORP OF AMER	5327	935	-4392	4424-4787	Riley, Benson	Keener, Big Injun, Weir, Berea, Gordon, Warren, Speechley, Balltown, Bradford, Alexander,
47085082070000	BOWMAN ROBERT & OGDEN VIOLET	ENERGY CORP OF AMER	5600	1175	-4425	4644-5287	Riley, Benson, Alexander	Keener, Big Injun, Weir, Berea, Gordon, Warren, Speechley, Balltown, Bradford
47085100970000	TAYLOR	EQT PRODUCTION CO	11279	1119	-5250	Not Reported	Marcellus	Keener, Big Injun, Weir, Berea, Gordon, Warren, Speechley, Balltown, Bradford, Alexander, Riley, Benson
47085100960000	TAYLOR	EQT PRODUCTION CO	12433	1119	-5250	8237-12433	Marcellus	Keener, Big Injun, Weir, Berea, Gordon, Warren, Speechley, Balltown, Bradford, Alexander, Riley, Benson

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
<u>Mary V. Wedekamm Lease</u>			
Mary V. Wedekamm	Kepco, Inc.	1/8	0161/0687
Kepco, Inc.	Union Drilling, Inc.	Merger	Corporation Record 0004/0322
Union Drilling, Inc.	Equitable Resources Exploration, Inc.	Merger	Corporation Record 0004/0673
Equitable Resources Exploration, Inc.	Equitable Resources Energy Company	Confirmatory Deed & Assignment	0230/0047
Equitable Resources Energy Company	Mike Ross, Inc.	Assignment	0223/0575
Mike Ross, Inc.	Antero Resources Appalachian Corporation	Assignment	0262/0164
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>The Haught Family Trust Lease</u>			
The Haught Family Trust, Ira M. Haught, Trustee	Antero Resources Corporation	1/8+	0272/0974
<u>Sarah J.B. Hunel Lease</u>			
Sarah J. B. Hunel	Antero Resources Corporation	1/8+	0274/0938
<u>Carroll Shinn, et al Lease</u>			
Carroll Shinn, et al	West Virginia Energies, Inc.	1/8	0149/0398
West Virginia Energies, Inc.	C & P Oil & Gas Company, Inc.	Assignment	0157/0296
C & P Oil & Gas Company, Inc.	Rare Earth Energy, Inc.	Assignment	0191/0762
Rare Earth Energy, Inc.	Stephen L. Thompson	Assignment	0236/0001
Stephen L. Thompson	Tri-County Oil & Gas, Inc.	Assignment	0236/0237
Tri-County Oil & Gas, Inc.	May Gas, Inc.	Assignment	0239/0229
May Gas, Inc.	Harper Crosby Holdings, LLC	Assignment	0265/0872
Harper Crosby Holdings, LLC	Piney Holdings, Inc.	Assignment	0265/0910
Piney Holdings, Inc.	Antero Resources Corporation	*Partial Assignment	0275/0625
<u>Richard Webb Lease</u>			
Richard Webb	Antero Resources Corporation	1/8+	0262/0963
<u>John J. Meyer III, et ux Lease</u>			
John J. Meyer III, et ux	Antero Resources Corporation	1/8+	0263/0609
<u>Richard Webb Lease</u>			
Richard Webb	Antero Resources Corporation	1/8+	0262/0963
<u>Larry Gander (A,B) Lease</u>			
Larry Gander	Antero Resources Corporation	1/8+	0300/0955

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*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.

01/13/2017

CONTINUED ON NEXT PAGE

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Richard Webb (C) Lease</u> Richard Webb	Antero Resources Corporation	1/8+	0279/1010
<u>Jerald Cunningham (D) Lease</u> Jerald Cunningham	Antero Resources Corporation	1/8+	0270/0010
<u>Kyle Thomas (E,F,G) Lease</u> Kyle Thomas	Antero Resources Corporation	1/8+	0301/0621
<u>City of Pennsboro (H) Lease</u> City of Pennsboro	Antero Resources Corporation	1/8+	0282/1018
<u>Roger A. Riggs (I) Lease</u> Roger A. Riggs	Antero Resources Corporation	1/8+	0270/0770
<u>Courtney N. Riffle (J) Lease</u> Courtney N. Riffle	Antero Resources Corporation	1/8+	0301/0443
<u>Dale W. Masters (K) Lease</u> Dale W. Masters	Antero Resources Corporation	1/8+	0277/0995
<u>Roger A. Riggs (L)</u> Roger A. Riggs	Antero Resources Corporation	1/8+	0270/0770
<u>John K. Schaffer (M) Lease</u> John K. Schaffer	Antero Resources Corporation	1/8+	0298/0604
<u>Michael L. Davis (N) Lease</u> Michael L. Davis	Antero Resources Corporation	1/8+	0298/0820
<u>Roger A. Riggs, et al (O, P) Lease</u> Roger A. Riggs	Antero Resources Corporation	1/8+	0285/0312
<u>Board of Education (Q) Lease</u> Board of Education	Antero Resources Corporation	1/8+	0275/0246
<u>WVSRA Lease</u> West Virginia State Rail Authority Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0253/0409 Exhibit 1

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<u>Elizabeth B. Pribble (R,S,U) Lease</u> Elizabeth B. Pribble	Antero Resources Corporation	1/8+	0301/0291
<u>Ritchie Co. Historical Society (T) Lease</u> Ritchie County Historical Society	Antero Resources Corporation	1/8+	0299/0558
<u>Elizabeth B. Pribble(V) Lease</u> Elizabeth B. Pribble	Antero Resources Corporation	1/8+	0301/0291
<u>Ritchie Co. Historical Society (W) Lease</u> Ritchie County Historical Society	Antero Resources Corporation	1/8+	0299/0558
<u>Vance Weekley (X) Lease</u> Vance Weekley	Antero Resources Corporation	1/8+	0269/0351
<u>Waco Oil & Gas Lease</u> Waco Oil & Gas	Antero Resources Corporation	1/8+	0299/0172
<u>Rose Mary Horner (Y) Lease</u> Rose Mary Horner	Antero Resources Corporation	1/8+	0301/0649
<u>Larry Gander (Z) Lease</u> Larry Gander	Antero Resources Corporation	1/8+	0300/0649
<u>Pennsboro Athletic Field Lease</u> Pennsboro Athletic Field	Antero Resources Corporation	1/8+	0301/0010
<u>John J. Meyer III, et ux Lease</u> John J. Meyer III, et ux	Antero Resources Corporation	1/8+	0267/0677
<u>Guy Wilson, et al Lease</u> Guy Wilson, et al	H.W. Stephan	1/8	0046/0139
H.W. Stephan	O.C. Pratt	Assignment	0059/0453
O.C. Pratt	Columbia I. Collins	Assignment	0069/0153
Columbia I. Collins	Edward E. Smyth	Assignment	0110/0027
Edward E. Smyth	Robert L. Williams	Assignment	0112/0226
Robert L. Williams	Willard Flanagan	Assignment	0114/0494
Willard Flanagan	Gary L. Riddle	Assignment	0193/0581
Gary L. Riddle	Ritchie Petroleum Corporation	Assignment	0245/0796
Ritchie Petroleum Corporation	Charity Gas, Inc.	Assignment	0222/0739
Charity Gas, Inc.	Antero Resources Appalachian Corporation	Assignment	0258/0439
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
John J. Meyer III, et ux Lease			
John J. Meyer III, et ux	Antero Resources Corporation	1/8+	0267/0677
Violet Ogden Lease			
Violet Ogden	Annie B. Haymond	1/8	0211/0670
Annie B. Haymond	Eastern American Energy Corp.	Assignment	0217/0383
Eastern American Energy Corp.	Energy Corporation of America	Assignment	0250/0393
Energy Corporation of America	Antero Resources Appalachian Corporation	Assignment	0257/0377
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Roseann Conley, et ux Lease			
Roseann Conley, et ux	Antero Resources Corporation	1/8+	0263/0757
Waco Oil & Gas Company Lease			
Waco Oil & Gas Co., Inc.	Antero Resources Corporation	1/8+	0299/0172
*PLEASE NOTE: We will NOT be drilling through "No Lease Found." The Western Unit 2H wellbore is 16' from this lease. Please see inset.			
Rosann Conley Lease			
Rosann Conley	Antero Resources Corporation	1/8+	0298/0149
EQT Lease			
EQT	Antero Resources Corporation	Notice of Agreement	0302/0492
Richard Barnard Lease			
Richard Barnard	Antero Resources Corporation	1/8+	0300/0148

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Richard H. Barnard Lease	Richard H. Barnard	Antero Resources Corporation	1/8+	0300/0156

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**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
 By: Robert S. Tucker *[Signature]*
 Its: VP of Geology

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Page 1 of 1

FORM WW-6A1
EXHIBIT 1

FILED

JUN 10 2013

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



Penney Barker, Manager
Corporations Division
Tel: (304)558-8000
Fax: (304)558-8381
Website: www.wvso.com
E-mail: business@wvso.com

APPLICATION FOR
AMENDED CERTIFICATE
OF AUTHORITY

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

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

**** 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:

- Name under which the corporation was authorized to transact business in WV: Antero Resources Appalachian Corporation
- Date Certificate of Authority was issued in West Virginia: 6/25/2008
- Corporate name has been changed to: Antero Resources Corporation
(Attach one Certified Copy of Name Change as filed in home State of Incorporation.)
- Name the corporation elects to use in WV: Antero Resources Corporation
(due to home state name not being available)
- Other amendments:
(attach additional pages if necessary)
- 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.)
Alvyn A. Schopp (303) 357-7310
Contact Name Phone Number

7. Signature information (See below *Important Legal Notice Regarding Signature):
Print Name of Signer: Alvyn A. Schopp Title/Capacity: Authorized Person
Signature: [Handwritten Signature] Date: June 10, 2013

*Important Legal Notice Regarding Signature: Per West Virginia Code §31D-1-129. Penalty for signing false document. 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 to the secretary of state for filing is guilty of a misdemeanor 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.

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09/13/2017

LATITUDE 39°20'00"

5,607'

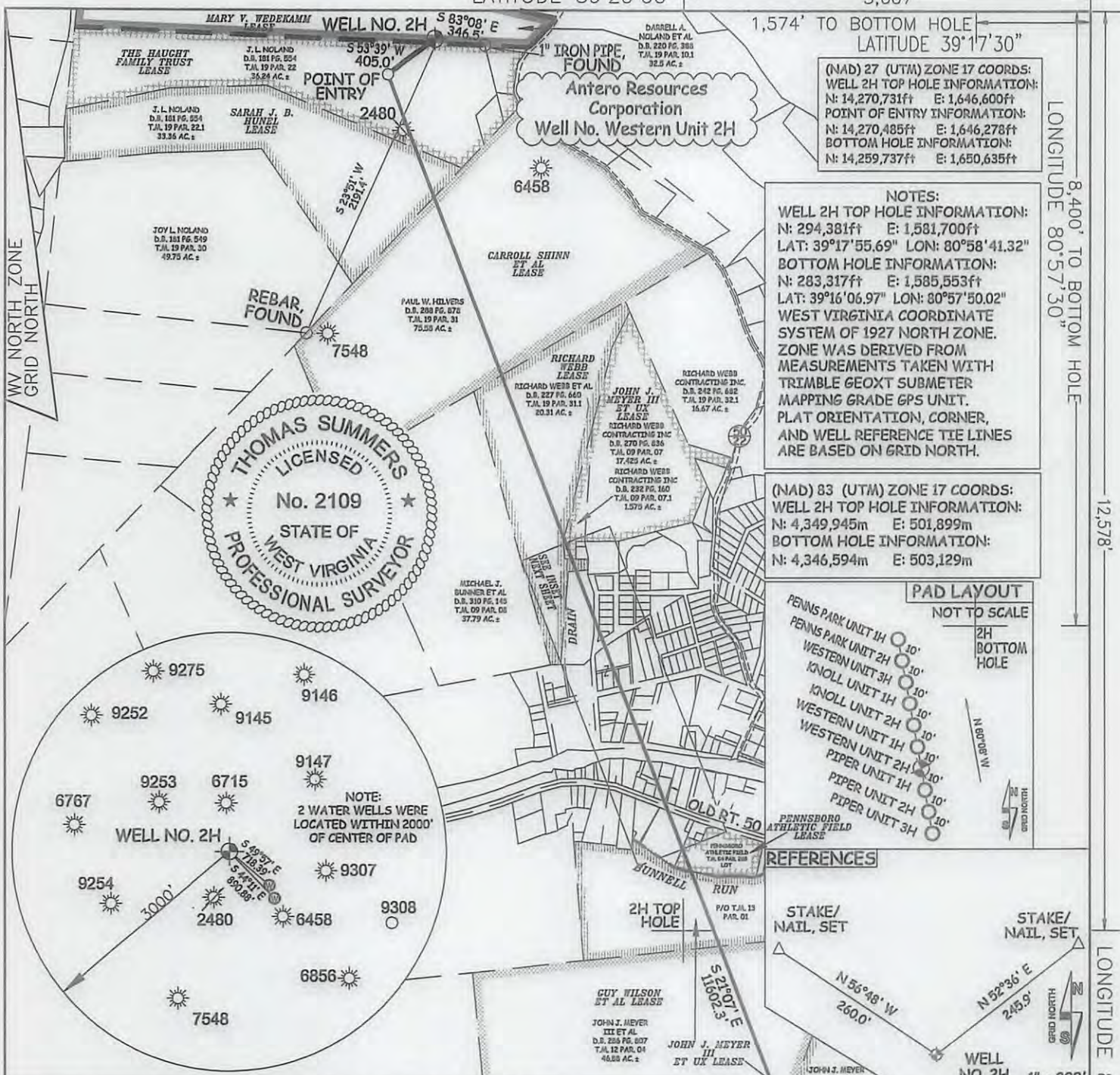
1,574' TO BOTTOM HOLE

LATITUDE 39°17'30"

LONGITUDE 80°57'30"

12,578'

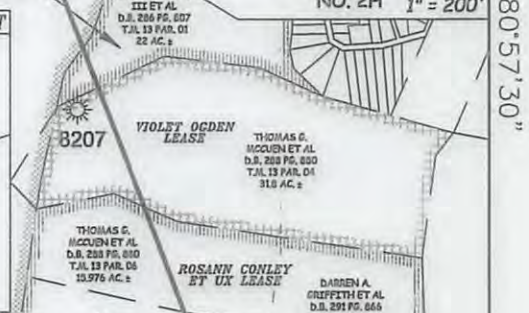
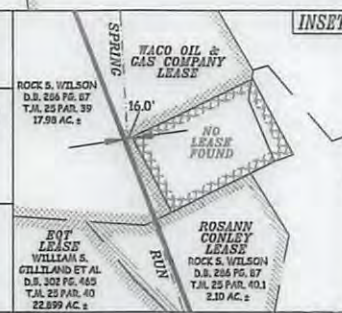
LONGITUDE 80°57'30"



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



47 - 085 - 10294
 STATE COUNTY PERMIT

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Interior Surface Tracts +/-
 X Existing Fence
 ⊕ Found monument, as noted

JOB # 16-022WA
 DRAWING # WESTERN2HR
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 11/07/16
 OPERATOR'S WELL# WESTERN UNIT #2H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,159' ORIGINAL - 1,143' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5 DISTRICT CLAY COUNTY RITCHIE
 SURFACE OWNER DARRELL A. NOLAND ET AL ACREAGE 32.5 ACRES +/-
 OIL & GAS ROYALTY OWNER SEE ATTACHED PAGES FOR LEASE INFORMATION LEASE ACREAGE SEE ATTACHED PAGES

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 19,600' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
 DENVER, CO 80202 CHARLESTON, WV 25313

01/13/2017

INSET

Antero Resources Corporation
Well No. Western Unit 2H

SURFACE INFORMATION:

- A - RICHARD L. WEBB D.B. 323 PG. 787 T.M. 01 PAR. 7.1 LOT
- B - RICHARD L. WEBB D.B. 323 PG. 787 T.M. 01 PAR. 07 LOT
- C - RICHARD L. WEBB D.B. 288 PG. 426 T.M. 01 PAR. 15 2.09 AC.±
- D - JERALD CUNNINGHAM D.B. 239 PG. 114 T.M. 01 PAR. 27 LOT
- E - JOHN M. BARNES D.B. 319 PG. 188 T.M. 01 PAR. 36 LOT
- F - JOHN M. BARNES D.B. 319 PG. 188 T.M. 01 PAR. 37 LOT
- G - JOHN M. BARNES D.B. 319 PG. 188 T.M. 01 PAR. 38 LOT
- H - CITY OF PENNSBORO D.B. 94 PG. 329 T.M. 01 PAR. 48 LOT
- I - ROGER A. RIGGS D.B. 329 PG. 685 T.M. 04 PAR. 04 LOT
- J - COURTNEY N. RIFFLE D.B. 295 PG. 369 T.M. 04 PAR. 06 LOT
- K - DALE W. MASTERS D.B. 117 PG. 120 T.M. 04 PAR. 07 LOT
- L - ROGER A. RIGGS D.B. 282 PG. 776 T.M. 04 PAR. 46 LOT
- M - JOHN K. SCHAFFER D.B. 303 PG. 78 T.M. 04 PAR. 48 LOT
- N - MARGARET L. DAVIS D.B. 284 PG. 882 T.M. 04 PAR. 107 LOT
- O - ROGER A. RIGGS ET AL D.B. 289 PG. 620 T.M. 04 PAR. 108 LOT
- P - ROGER A. RIGGS ET AL D.B. 289 PG. 620 T.M. 04 PAR. 109 LOT
- Q - BOARD OF EDUCATION D.B. 148 PG. 38 T.M. 04 PAR. 49 2.77 AC.±

WV NORTH ZONE
GRID NORTH

RICHARD WEBB
CONTRACTING INC
D.B. 232 PG. 160
T.M. 09 PAR. 07.1
1.575 AC.±

RICHARD WEBB ET AL
D.B. 227 PG. 660
T.M. 19 PAR. 31.1
20.31 AC.±

RICHARD
WEBB
LEASE

JOHN J.
MEYER III
ET UX LEASE

LEASE INFORMATION	
A	- LARRY GANDER
B	- LARRY GANDER
C	- RICHARD WEBB
D	- JERALD CUNNINGHAM
E, F, G	- KYLE THOMAS
H	- CITY OF PENNSBORO
I	- ROGER A. RIGGS
J	- COURTNEY N. RIFFLE
K	- DALE W. MASTERS
L	- ROGER A. RIGGS
M	- JOHN K. SCHAFFER
N	- MICHAEL L. DAVIS
O, P	- ROGER A. RIGGS ET AL
Q	- BOARD OF EDUCATION
R, S, U	- ELIZABETH B. PRIBBLE
T	- RITCHIE CO. HISTORICAL SOCIETY
V	- ELIZABETH B. PRIBBLE
W	- RITCHIE CO. HISTORICAL SOCIETY
X	- VANCE WEEKLEY
Y	- ROSE MARY HORNER
Z	- LARRY GANDER

SURFACE INFORMATION CONTINUED:

- R - ELIZABETH B. PRIBBLE D.B. 151 PG. 533 T.M. 04 PAR. 201 LOT
- S - ELIZABETH B. PRIBBLE D.B. 151 PG. 533 T.M. 04 PAR. 202 LOT
- T - RITCHIE CO. HISTORICAL SOC. D.B. 300 PG. 521 T.M. 04 PAR. 207 LOT
- U - ELIZABETH B. PRIBBLE D.B. 151 PG. 533 T.M. 04 PAR. 203 LOT
- V - ELIZABETH B. PRIBBLE D.B. 151 PG. 533 T.M. 04 PAR. 205 LOT
- W - RITCHIE CO. HISTORICAL SOC. D.B. 184 PG. 705 T.M. 04 PAR. 207.1 LOT
- X - VANCE WEEKLEY D.B. 238 PG. 458 T.M. 04 PAR. 210 LOT
- Y - CYNTHIA K. WINLAND D.B. 288 PG. 22 p/o T.M. 04 PAR. 279 1.854 AC.±
- Z - CYNTHIA K. WINLAND D.B. 288 PG. 22 p/o T.M. 04 PAR. 279 1.854 AC.±



WILLOW
• LAND SURVEYING PLLC •

P.O. BOX 17
PENNSBORO, WV 26415
304-659-1717

SCALE: 1-INCH = 200-FEET



LEGEND	
	Western 2H Lateral
	Interior Surface Tracts

RECEIVED 01/13/2017
Office of Oil and Gas

NOV 16 2016
FILE: 16-022WA16
JOB: WESTERN2H INSET
DRAFTED BY: T.B.S. 11/07/16

Environmental Department of
Action