

04/26/2019



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

Friday, April 26, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for FORREST FENN UNIT 1H
47-095-02560-00-00

Change bottom hole location of the total measured depth from 24000' to 24200'.

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: FORREST FENN UNIT 1H
Farm Name: JOSEPH R. RYMER JR.
U.S. WELL NUMBER: 47-095-02560-00-00
Horizontal 6A New Drill
Date Modification Issued: 04/26/2019

Promoting a healthy environment.

WW-6B
(04/15)

04/26/2019
Permit Modification API# 47-095-02560
API NO. 47-095 - 02560
OPERATOR WELL NO. Forrest Fenn Unit 1H
Well Pad Name: Rush Fork Pad

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

1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Meade Middlebourne 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Forrest Fenn Unit 1H Well Pad Name: Rush Fork Pad

3) Farm Name/Surface Owner: Joseph R. Rymer Jr Public Road Access: Middlebourne-Wick (CR 7)

4) Elevation, current ground: 986' Elevation, proposed post-construction: _____

5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X _____

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6700' TVD, Anticipated Thickness- 75 feet, Associated Pressure- 2800#

JCB
1/30/2019

8) Proposed Total Vertical Depth: 6700' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24200' MD

11) Proposed Horizontal Leg Length: 16455'

12) Approximate Fresh Water Strata Depths: 30'

13) Method to Determine Fresh Water Depths: Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1485', 1485', 1510'

15) Approximate Coal Seam Depths: N/A

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 X

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

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04/26/2019

WW-6B
(04/15)

Permit Modification API# 47-095-02560
 API NO. 47- 095 - 02560
 OPERATOR WELL NO. Forrest Fenn Unit 1H
 Well Pad Name: Rush Fork 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#	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#	24200'	24200'	6246 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

JEB
11/30/2019

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	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			
Depths Set:	N/A			

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04/26/2019

WW-6B
(10/14)

Permit Modification API# 47-095-02560

API NO. 47- 095 - 02560

OPERATOR WELL NO. Forrest Fenn Unit 1H

Well Pad Name: Rush Fork 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.

JCB
1/30/2019

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): 19.73 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.78 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 pipe capacity + 40 bbls fresh 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.

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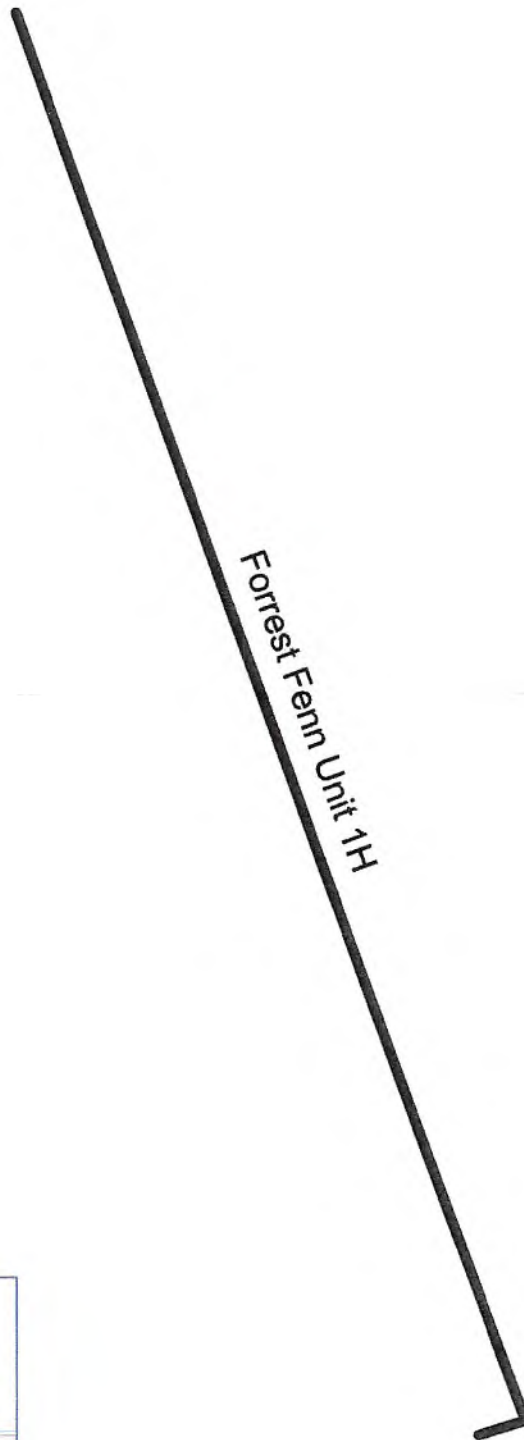
*Note: Attach additional sheets as needed.

Page 3 of 3 RECEIVED
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Environmental Protection

Permit Modification API# 47-095-02560



Antero Resources Corporation

Forrest Fenn Unit 1H - AOR



No Wells of Interest REMARKS

January 14, 2019

QCB
1/30/2019

WW-6A1
(5/13)

Permit Modification API# 47-095-02560
Operator's Well No. Forrest Fenn 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
<u>Cathy E. Eddy Lease</u>	Cathy E. Eddy	Antero Resources Corporation	1/8+	0585/0594

*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.

Well Operator: Antero Resources Corporation
By: Kevin Kilstrom
Its: Senior VP of Production

WW-6A1

Operator's Well Number Forrest Fenn Unit 1H
 Permit Modification API# 47-095-02560

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Howard H. Harcha III Lease</u> Howard H. Harcha III	Antero Resources Corporation	1/8+	0486/0689
<u>James Douglas White Lease</u> James Douglas White	Antero Resources Corporation	1/8+	0431/0560
<u>Kerr-McGhee Oil & Gas Onshore LP Lease</u> Kerr-McGhee Oil & Gas Onshore LP	Antero Resources Corporation	1/8+	0502/0272
<u>James T. Stinson et ux Lease</u> James T. Stinson, et ux Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0417/0467 Exhibit 1
<u>Donald L. Baker et ux Lease</u> Donald L. Baker, et ux Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0417/0823 Exhibit 1
<u>Terri A. Gload Lease</u> Terri A. Gload	Antero Resources Corporation	1/8+	0455/0504
<u>Chester L. Baker et al Lease</u> Chester L. Baker et al Siltstone Resources II LLC	Siltstone Resources II LLC Antero Resources Corporation	1/8 Assignment	0489/0040 0597/0790
<u>Nancy Lee Bradford et vir Lease</u> Nancy Lee Bradford et vir Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0397/0460 Exhibit 1
<u>The Dale E. Wise Trust UTD Lease</u> The Dale E. Wise Trust UTD Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0422/0476 0557/0430
<u>Norma Jean Swartz et vir Lease</u> Norma Jean Swartz et vir	Antero Resources Corporation	1/8+	0528/0132
<u>Lonnie James Lease</u> Lonnie James Siltstone Resources II LLC	Siltstone Resources II LLC Antero Resources Corporation	1/8 Assignment	0504/0334 0597/0790

*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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 CONTINUED ON NEXT PAGE
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WV Department of
 Environmental Protection

WW-6A1

Operator's Well Number Forrest Fenn Unit 1H
Permit Modification API# 47-095-02560

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
 Chapter 22, Article 6A, Section 5(a)(5)
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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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Janie DeNoon Trust Lease</u>			
Janie DeNoon Trust	Chesapeake Appalachia LLC	1/8+	0413/0629
Chesapeake Appalachia, LLC	Statoil USA	Assignment	0412/0126
Chesapeake Appalachia, LLC	SWN Production Company	Assignment	0465/0463
Statoil USA	SWN Production Company	Assignment	0470/0658
SWN Production Company	Antero Resources Corporation	Assignment	0544/0242
<u>Nancy P. Bailey Lease</u>			
Nancy P. Bailey	Antero Resources Corporation	1/8+	0585/0576
<u>Howard O. Flesher et ux Lease</u>			
Howard O. Flesher et ux	Siltstone Resources II, LLC	1/8	0482/0303
<u>Larry D. McMullen Lease</u>			
Larry D. McMullen	Antero Resources Corporation	1/8+	0442/0516

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WV Department of
 Environmental Protection

FORM WW-6A1
EXHIBIT 1

FILED

JUN 10 2013

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



IN THE OFFICE OF
PENNEY BARKER, Manager
Corporations Division
Tel: (304)558-8000
Fax: (304)558-8381
Website: www.wvsos.com
E-mail: business@wvsos.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:

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: Antero Resources Corporation
(Attach one **Certified Copy of Name Change** as filed in home State of incorporation.)
4. Name the corporation elects to use in WV: Antero Resources Corporation
(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.)

<u>Alvyn A. Schopp</u>	<u>(303) 367-7310</u>
Contact Name	Phone Number

7. Signature information (See below **Important Legal Notice Regarding Signature**):

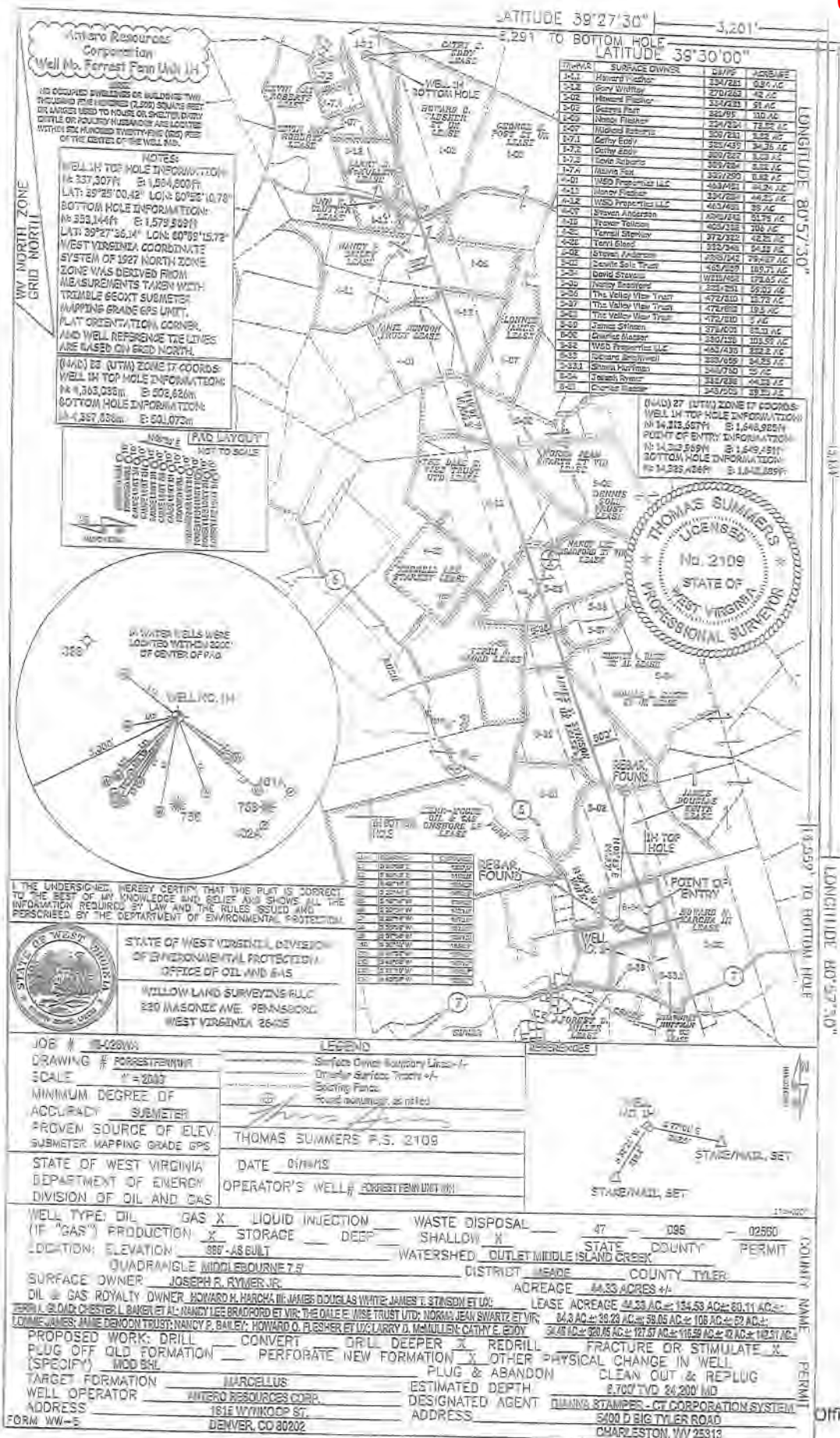
Print Name of Signer: <u>Alvyn A. Schopp</u>	Title/Capacity: <u>Authorized Person</u>
Signature: <u></u>	Date: <u>June 10, 2013</u>

**Important Legal Notice Regarding Signature: For 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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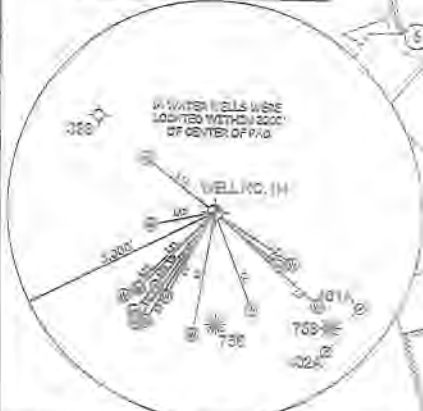


Antero Resources Corporation
Well No. Forrest Penn Unit 1H

NO OCCUPIED DWELLINGS OR BUILDINGS WERE INCLUDED IN THIS SURVEY (2,200 SQUARE FEET OR LARGER USED TO MEASURE OR LOCATE ENTRY POINTS OF HOUSING UNITS AND LARGER DWELLINGS OR BUILDINGS ARE LOCATED WITHIN THE 1/4 SECTION TWENTY-FIVE (25) FEET OF THE CENTER OF THE WELL NO.

NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 337,307.71 E: 1,894,800.00
LAT: 39°28'00.42" LON: 80°52'10.78"
BOTTOM HOLE INFORMATION:
N: 333,144.71 E: 1,579,509.11
LAT: 39°27'36.14" LON: 80°50'15.72"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 600XT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(MAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,363,055.11 E: 502,626.00
BOTTOM HOLE INFORMATION:
N: 4,357,636.11 E: 501,072.00



WELL NO.	SURFACE OWNER	ACREAGE
0-01	Harvey Fisher	234/235 0.31 AC
0-02	Scott Walker	270/235 0.25 AC
0-03	Howard Fisher	234/235 0.21 AC
0-04	George Hart	332/219 0.10 AC
0-05	Nancy Fisher	234/234 0.25 AC
0-06	Michael Roberts	300/231 0.25 AC
0-07	Geoffrey Eddy	305/439 0.25 AC
0-08	Debra Eddy	300/231 0.25 AC
0-09	David Roberts	300/231 0.25 AC
0-10	Alanna Fox	300/231 0.25 AC
0-11	WSD Properties LLC	403/215 0.25 AC
0-12	Minor Flesher	304/235 0.25 AC
0-13	WSD Properties LLC	403/215 0.25 AC
0-14	Steven Anderson	403/215 0.25 AC
0-15	Troyer Telford	372/232 0.25 AC
0-16	Terrill Steiner	372/232 0.25 AC
0-17	Terrill Steiner	372/232 0.25 AC
0-18	Steven Anderson	403/215 0.25 AC
0-19	David Steiner	403/215 0.25 AC
0-20	Nancy Steiner	403/215 0.25 AC
0-21	The Valley Vine Trust	472/210 0.25 AC
0-22	The Valley Vine Trust	472/210 0.25 AC
0-23	The Valley Vine Trust	472/210 0.25 AC
0-24	James Steiner	372/232 0.25 AC
0-25	Charles Mager	300/231 0.25 AC
0-26	WSD Properties LLC	403/215 0.25 AC
0-27	Debra Eddy	300/231 0.25 AC
0-28	Shirley Harrison	340/210 0.25 AC
0-29	Charles Mager	340/210 0.25 AC



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 SECURED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAKE SURVEYING PLLC
220 MASONIC AVE. PENNSBORO, WEST VIRGINIA 26105

JOB # 18-0200W
DRAWING # FORRESTPENN
SCALE 1" = 2000'
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 01/18/18
OPERATOR'S WELL # FORREST PENN UNIT 1H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW 47 095 02550
LOCATION: ELEVATION 887 AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK STATE COUNTY PERMIT
QUADRANGLE MIDDLEBOURNE 7.5 DISTRICT #464 COUNTY TYLER
SURFACE OWNER JOSEPH R. RYMER JR. ACREAGE 44.33 ACRES +/-
DIL @ GAS ROYALTY OWNER HOWARD H. HARCHA, III; JAMES DOUGLAS WHITE; JAMES T. STANSON ET AL; LEASE ACREAGE 44.33 AC +/- 134.53 AC +/- 80.11 AC +/- 84.3 AC +/- 39.23 AC +/- 59.05 AC +/- 108 AC +/- 52 AC +/- 34.8 AC +/- 320.15 AC +/- 107.57 AC +/- 116.59 AC +/- 0 AC +/- 149.51 AC +/-

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 8,700' TVD 24,200' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT THOMAS SUMMERS - CT CORPORATION SYSTEM
ADDRESS 1616 WYIKOOP ST. ADDRESS 5100 D BIG TYLER ROAD
DENVER, CO 80202 CHARLESTON, WV 25313

FORM WW-5

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Office of Oil and Gas

FEB - 6 2019

WV Department of Environmental Protection

95-02560 MOD
04/26/2019



January 18, 2019

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. Adkins:

Antero Resources Corporation (Antero) would like to submit the following permit modification for two approved wells on the Rush Fork Pad. We are requesting to change the bottom hole locations of the Robert Lee Unit 1H (API# 47-095-02558) and the Forrest Fenn Unit 1H (API# 47-095-02560).

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the revised lateral length
- REVISED Form WW-6A1, which shows the new leases we will be drilling into
- REVISED Mylar Plats, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-6820.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Karin Cox", is written over a light blue horizontal line.

Karin Cox
Permitting Agent
Antero Resources Corporation

Enclosures

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