



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

Thursday, April 2, 2020
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for FOLGER 1H
47-095-02685-00-00

Modified Lateral for a TMD of 22,400' with no additional wells within 500' per AOR

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, larger version of the signature.

Operator's Well Number: FOLGER 1H
Farm Name: ELDON J. & RUTH A. HELMAN
U.S. WELL NUMBER: 47-095-02685-00-00
Horizontal 6A New Drill
Date Modification Issued: April 2, 2020

Promoting a healthy environment.

MDD

WW-6B
(04/15)

API NO. 47-095 - 02685
OPERATOR WELL NO. Folger Unit 1H
Well Pad Name: Eldon 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 Tyler Ellsworth Middlebourne 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Folger Unit 1H Well Pad Name: Eldon Pad

3) Farm Name/Surface Owner: Eldon J. & Ruth A. Helman Public Road Access: CR 10/1

4) Elevation, current ground: 882' Elevation, proposed post-construction: ~880'

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

(b) If Gas Shallow Deep
Horizontal

JCB
3/12/2020

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 6500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22400' MD

11) Proposed Horizontal Leg Length: 11083'

12) Approximate Fresh Water Strata Depths: 156'

13) Method to Determine Fresh Water Depths: 47-095-00912

14) Approximate Saltwater Depths: 1676'

15) Approximate Coal Seam Depths: None Identified

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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Office of Oil and Gas

MAR 16 2020

Page 1 of 3

WW-6B
(04/15)

API NO. 47- 095 - 02685

OPERATOR WELL NO. Folger Unit 1H

Well Pad Name: Eldon Pad

18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<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#	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#	22400	22400	CTS, 5752 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

JEB
3/12/2020

<u>TYPE</u>	<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	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	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"	0.415"	12,630	2500	Less-HPOZ & Tall - 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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WV Department of
Environmental Protection

WW-6B
(10/14)

API NO. 47-095 - 02685

OPERATOR WELL NO. Folger Unit 1H

Well Pad Name: Eldon 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.

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

JCB
3/12/2020

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 35.04 acres

22) Area to be disturbed for well pad only, less access road (acres): 12.65 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.

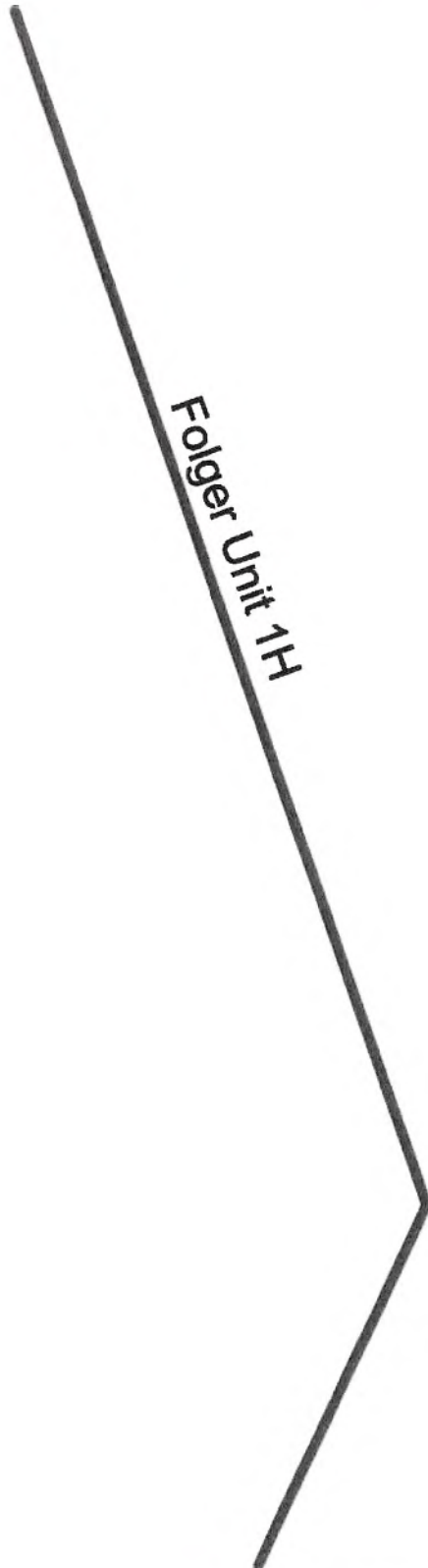
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WV Department of
Environmental Protection

PERMIT MODIFICATION API # 47-095-02685 *Mod*



Folger Unit 1H



Antero Resources Corporation

Folger Unit 1H - AOR



REMARKS
No Wells of Interest

December 19, 2019

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Environmental Protection

JOB
3/17/2020

WW-6A1

Operator's Well Number Folger 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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Eldon J. & Ruth A. Helman Lease</u> Eldon J. & Ruth A. Helman	Antero Resources Corporation	1/8+	0427/0610
<u>Ruth H. Wells Lease</u> Ruth H. Wells Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0417/0706 Exhibit 1
<u>Chauncey Paul Archer et ux Lease</u> Chauncey Paul Archer et ux	Antero Resources Corporation	1/8+	0656/0289
<u>WV Division of Natural Resources Lease</u> WV Division of Natural Resources	Antero Resources Corporation	1/8+	0569/0219
<u>Donna Smith Lease</u> Donna Smith	Antero Resources Corporation	1/8+	0552/0608
<u>Debra Lynn Warner Lease</u> Debra Lynn Warner	Antero Resources Corporation	1/8+	0016/0009
<u>Doris Ellen Haught Lease</u> Doris Ellen Haught Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0411/0678 Exhibit 1
<u>Ridgetop Capital LP Lease</u> Ridgetop Capital LP	Antero Resources Corporation	1/8+	0567/0332
<u>John W. Starkey et ux Lease</u> John W. Starkey et ux	Antero Resources Corporation	1/8+	0424/0370
<u>Gerald C. Clutter et ux Lease</u> Gerald C. Clutter et ux Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0427/0632 0557/0430
<u>Larry Folger et al Lease</u> Larry Folger et al	Antero Resources Corporation	1/8+	0537/0486

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WV Department of
Environmental Protection

*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.

MOD

WW-6A1
(5/13)

Operator's Well No. Folger 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)**

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- (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>William P. Ingram et ux Lease</u>	William P. Ingram et ux Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	0415/0762 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**

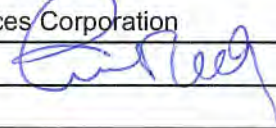
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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

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WV Department of
Environmental Protection

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: Tim Rady 
Its: VP of Land

95-02685 Mod

**FORM WV-6A1
EXHIBIT 1**

FILED

JUN 10 2013

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



Fenny Baker, Manager
Corporations Division
Tel: (304)558-8000
Fax: (304)558-8381
Website: www.wvnet.com
E-mail: business@wvnet.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: 6/28/2008
- 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.)
Alwyn A. Schopp (304) 367-7310
Contact Name Phone Number

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

Print Name of Signer: Alwyn A. Schopp Title/Capacity: Authorized Person

Signatures: *Alwyn A. Schopp* Date: June 10, 2013

Important Legal Notice Regarding Signatures: For West Virginia Code §11D-1-12b. 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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MAR 06 2013
WV Department of
Environmental Protection

Antero Resources
Well No. Folger 1H
 BHL MOD
 Antero Resources Corporation



Legend

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- District Line

	Bearing	Dist.
L1	S 17°57' W	948.3'
L2	N 67°08' E	1,434.0'
L3	N 56°57' E	760.0'
L4	N 24°25' E	830.5'
L5	N 38°58' E	4,398.1'

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 prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



SEAL

11,579' to Top Hole

789' to Bottom Hole

TOP HOLE LATITUDE 39 - 30 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Note: It appears 0 water wells and 3 ponds were found within 2000' of proposed well. No occupied dwellings and no buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

TOP HOLE LONGITUDE 80 - 55 - 00
 BTM HOLE LONGITUDE 80 - 57 - 30

2,189' to Top Hole

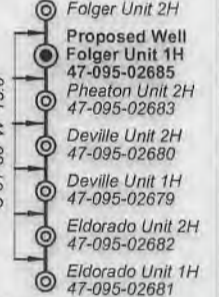
Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Folger Unit 1H Top Hole coordinates are
 N: 365,183.46' Latitude: 39°29'36.53"
 E: 1,588,673.14' Longitude: 80°57'27.24"
 Bottom Hole coordinates are
 N: 379,038.79' Latitude: 39°31'53.35"
 E: 1,587,952.65' Longitude: 80°57'39.30"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,371,550.486m N: 4,375,767.927m
 E: 503,663.265m E: 503,373.377m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Notes:
 Well No. Folger Unit 1H
 UTM Zone 17, NAD 1927
 Top Hole Coordinates
 N: 14,341,614.88'
 E: 1,652,387.75'
 Point of Entry Coordinates
 N: 14,345,079.85'
 E: 1,655,095.32'
 Bottom Hole Coordinates
 N: 14,355,451.50'
 E: 1,651,436.37'

Well Location References (NTS)



Wellhead Layout (NTS)



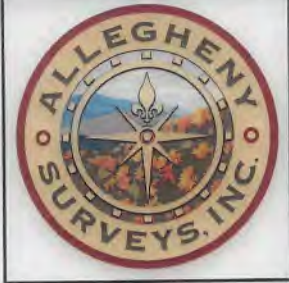
FILE NO: 02-54-U-20
 DRAWING NO: Folger 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: March 2 20 20
 OPERATOR'S WELL NO. Folger Unit 1H
 API WELL NO
 47 - 095 - 02685
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 Proposed Elev. 880'
 LOCATION: ELEVATION: Existing Elev. 882' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth/Lincoln COUNTY: Tyler
 SURFACE OWNER: Eldon J. & Ruth A. Helman Doris Ellen Haught; Ridgetop Capital, LP; Debra Lynn Warner Gerald C. Clutter, et ux; William P. Ingram; Larry Folger, et ux; Chauncy Paul Archer, et ux; Donna Jean Ice; Donna Smith; ACREAGE: 61.83
 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; WV Division of Natural Resources; LEASE NO: ACREAGE: 181.99625;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,500' TVD 22,400' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



ID	TM/Par	Owner	Bk/Pg	Acres
1	19-1	Eldon J. & Ruth A. Helman	383/761	61.83
2	6-1.1	Eldon J. & Ruth A. Helman	383/761	21.0
3	13-10	Eldon J. & Ruth A. Helman	383/761	96.82
4	13-9	Chauncey P. & Ruth M. Archer	190/9	58.38
5	15-17.1	Lisa D. Beaver	327/758	6.35
6	15-17	Earl & Donna Smith	191/12	127.39
7	15-16.1	Richard G. Thomas	339/706	1.00
8	15-15.1	Bruce B. Seckman	348/100	0.99
9	15-15	Jack B. & Bennie H. Kile, Jr.	155/195	39.64
10	15-18	B.F. Kile	174/412	70.00
11	15-15.2	Ridgetop Capital, LP	375/206	17.54
12	15-16	Everett Glen Thomas	W30/1	81.67
13	15-13	B.F., Ben H. & Ida M. Kile	174/412	140.00
14	15-8	Ridgetop Capital LP	375/206	68.20
15	15-10	Doris E. Haught	364/544	55.09
16	15-7.1	John Preston Litten	391/769	56.00
17	15-7	Ivan W. & Karen L. Makely	281/498	35.10
18	15-9	Ridgetop Capital, LP	375/206	120.00
19	15-4	Ivan W. & Karen L. Makely	337/639	41.29
20	15-4.1	Neal W. & Daniel L. Makely	293/387	12.00
21	15-2	Stephen E. Surface, et al	365/302	54.00
22	12-28	John W. & Leah D. Starkey	373/699	19.25
23	12-59	Gerald C. & Mary Lou Clutter	286/350	11.00
24	12-60	Gerald C. & Mary Lou Clutter	286/350	17.50
25	12-57	Gerald C. & Mary Lou Clutter	247/307	3.78
26	12-56	Gerald C. & Mary Lou Clutter	247/307	17.88
27	12-50	William P. Ingram	605/159	88.00
28	12-51	Rickie Lee Littleton	281/193	61.23
29	12-27	William P. & Jo Anne Ingram	156/175	183.16
30	12-45	Timothy B. & Paula S. Ingram	322/828	56.35
31	12-48	William Michael & Mary Ann Wells	314/416	34.62
32	12-44	William P. Ingram	455/477	62.50
33	12-45.1	Timothy S. Ingram	326/353	1.98

Leases	
A	Eldon J. & Ruth A. Helman
B	Chauncey Paul Archer, et ux
C	Ruth H. Wells
D	Norma R Spencer, Trustee of the Allan P. Spencer Living Trust
E	WV Division of Natural Resources
F	Lisa D. Beaver
G	Donna Smith
H	Richard G. Thomas
I	Donna Jean Ice
J	Norma Jean Elder Eaton
K	Doris Ellen Haught
L	Ridgetop Capital LP
M	John W. Starkey, et ux
N	Gerald C. Clutter, et ux
O	Larry Folger, et ux
P	William P. Ingram, et ux
Q	William Michael Wells, et ux
R	Timothy B. Ingram
S	William P. Ingram
T	Timothy B. Ingram
U	Liva Tucker
V	Debra Lynn Warner

FILE NO: 02-54-U-20
 DRAWING NO: Folger 1H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: March 2 20 20
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 API WELL NO
 47 - 095 - 02685
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
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 LOCATION: ELEVATION: Existing Elev. 882' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne Paden City
 DISTRICT: Ellsworth/Lincoln COUNTY: Tyler 9,73027; 61.83;
 SURFACE OWNER: Eldon J. & Ruth A. Helman Doris Ellen Haught; Ridgetop Capital, LP; Debra Lynn Warner 88.18; 97.5; 34.3;
 Gerald C. Clutter, et ux; William P. Ingram; Larry Folger, et ux; 127.39; 71.93152;
 Chauncey Paul Archer, et ux; Donna Jean Ice; Donna Smith; ACREAGE: 61.83 140.0; 205.862;
 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; WV Division of Natural Resources; LEASE NO: ACREAGE: 181.99625;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



March 4, 2020

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 modification for an approved well on the existing Eldon Pad: Folger Unit 1H (AP # 47-095-02685).

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the updated POE & Measured Depth
- REVISED Form WW-6A1, which shows the new leases we will be drilling into
- REVISED Mylar Plat, which shows the new Lateral Length & Estimated Measured Depth
- AOR & As-Built Design

If you have any questions please feel free to contact me at (303) 357-7223.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Megan Griffith", written over a white background.

Megan Griffith
Permitting Agent
Antero Resources Corporation

Enclosures

RECEIVED
Office of Oil and Gas

MAR 06 2020
WV Department of
Environmental Protection