

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Wednesday, June 22, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for FOLGER UNIT 1H

47-095-02783-00-00

Extended Lateral Length

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.

Operator's Well Number: FOLGER UNIT 1H

Farm Name: ELDON J & RUTH A HELMAN

U.S. WELL NUMBER: 47-095-02783-00-00

Horizontal 6A New Drill Date Modification Issued: 6/22/2022

Promoting a healthy environment.

API NO. 47-095	_ 02783	
OPERATOR W	ELL NO.	Folger Unit 1H MOD
Well Pad Nar	ne: Eldon	Pad

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

l) Well Operator:	Antero Res	ources Corpora	494507062	095 - Tyler	Ellsworth	Middlebourne 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Fo	lger Unit 1H MC	DD Well Pac	Name: Eldor	Pad	
3) Farm Name/Sur	face Owner:	Eldon J. & Ruth A I	Helman Public Roa	d Access: Alle	n Run Rd	
4) Elevation, curre	nt ground:	880' as built E	levation, proposed	post-constructi	on:	
, ,,	Gas X	Oil _	Unde	erground Stora	ge	
	her					
(b)	If Gas Sha	illow X	Deep			
		rizontal X				
6) Existing Pad: Yo	es or No Yes	8		-		
, .	• • •		cipated Thickness a ess- 55 feet, Associa	_		
8) Proposed Total	Vertical Depti	h: 6400' TVD				
9) Formation at To	tal Vertical D	epth: Marcellu	s			
10) Proposed Total	Measured D	epth: 24000'				
11) Proposed Horiz	zontal Leg Le	ength: 15147'				
12) Approximate F	resh Water S	trata Depths:	156'			
13) Method to Det	ermine Fresh	Water Depths:	47095009120000 Offset wel	l records. Depths have	e been adjusted a	ccording to surface elevations.
14) Approximate S						
15) Approximate C	Coal Seam De	pths: None Ant	icipated			
16) Approximate I	Depth to Possi	ible Void (coal m	ine, karst, other):	None Anticipa	ited	
17) Does Proposed directly overlying			ums Yes	No	<u> x</u>	
(a) If Yes, provid	e Mine Info:	Name:				
		Depth:				
		Seam:				RECEIVED Office of Oil and Go
		Owner:				JUN 0 6 2022
						2014 A D 707

WV Department of Environmental Protection

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06/24/2022

DMG 6-3-ZZ

API NO. 47- 095	_ 02783
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OPERATOR WELL NO. Folger Unit 1H MOD

Well Pad Name: Eldon Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	79#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	300'	300'	CTS, 313Cu. Ft.
Coal	9-5/8°	New	J-/K55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	24000'	24000'	CTS, 5120 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
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°	0.375"	2250	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"	14,360	2500	Class G/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		 	RECEIVED
		 -	 	Office of Oil and

JUN 06 2022

WV Department of Environmental Protection

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06/24/2022 Omlos 6-3-22

API NO. 47- 095 - 02783

OPERATOR WELL NO. Folger Unit 1H MOD

Well Pad Name: Eldon Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the 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): 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

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WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

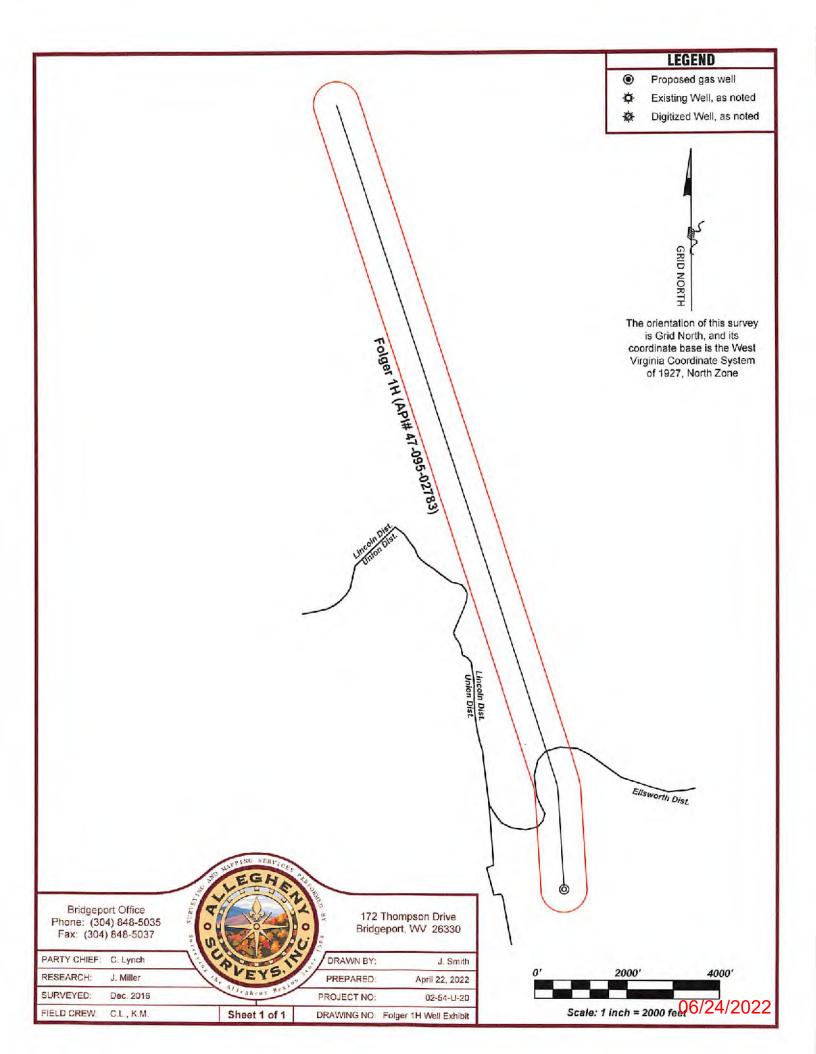
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

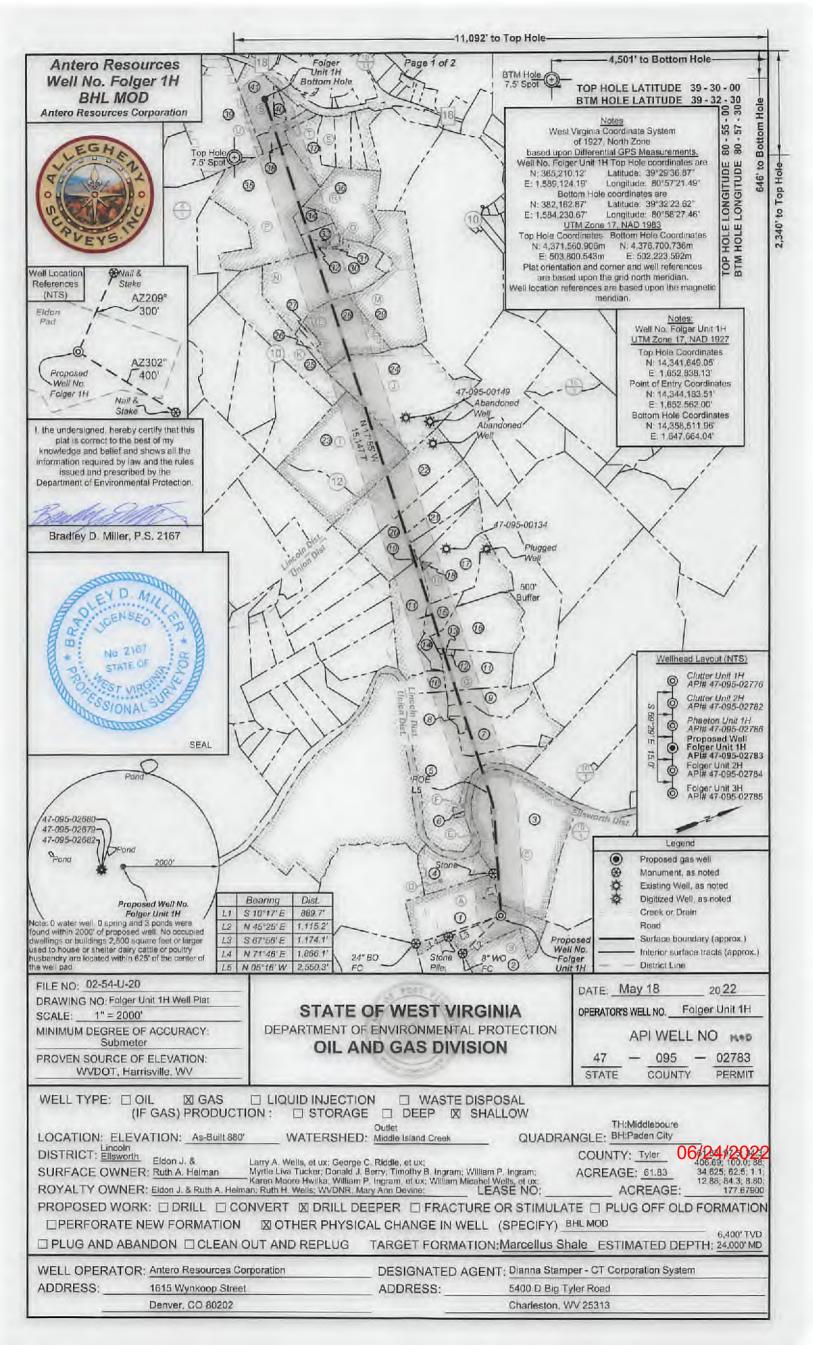
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water,

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.

06/24/2022





Antero Resources Well No. Folger 1H BHL MOD

Antero Resources Corporation



ID	TM/Par	Owner	Bk/Pg	Acres
1	19-1	Eldon J. & Ruth A. Helman	383/761	61.83
2	19-42	Carol J. Cox	334/298	142.00
3	13-10	Eldon J. & Ruth A. Helman	383/761	96.82
4	6-1.1	Eldon J. & Ruth A. Helman	383/761	21.00
5	15-18	B.F. Kile	174/412	70.00
6	15-19	Bennie H. & Karen Kile	263/40	1.00
7	15-15	Jack B. & Bennie H. Kile, Jr.	155/195	39.64
8	15-14	Larry Kile & Christopher Kile	15/647	1.52
9	15-15.2	Ridgetop Capital, LP	375/206	17.54
10	15-12	Roger & Claudia Weekly	317/317	7.66
11	15-10	Doris E. Haught	364/544	55,71
12	15-10.1	Stephen A., Jr. & Tina L. Goudy	323/352	0.50
13	15-11	Stephen A., Jr. & Tina L. Goudy	304/387	0.46
14	15-10.2	April A. & Christopher D. Ramsey	364/541	4.67
15	15-7.2	John P. Litten	500/466	8.90
16	15-7.1	John Preston Litten	391/769	56.00
17	15-7	Ivan W. & Karen L. Makely	281/498	35,10
18	15-6	Ivan Wesley & Karen Leila Makely	234/517	0.40
19	15-5	Ivan & Karen Makely	358/145	0.71
20	15-4	Ivan W. & Karen L. Makely	337/639	41.29
21	15-4.1	Ivan W. & Karen L. Makely	404/130	12.00
22	15-2	Stephen E. Surface, et al	365/302	54.00
23	12-55.1	Nathaniel V. & Tamela Frum	428/604	75.00
24	12-50	William P. Ingram	605/159	88.00
25	12-43	Estella J. & William J. Goodfellow, Jr.	178/489	43.18
26	12-47	Estella & William J. Goodfellow, Jr.	166/356	3.46
27	12-48.1	Estella & William J. Goodfellow, Jr.	333/223	1.91
28	12-48	William Michael & Mary Ann Wells	314/416	34 62
29	12-45	Timothy B. Ingram	326/353	56.35
30	12-44	William P. Ingram	455/477	62.50
31	12-25	Kenneth W. Hammond	363/204	0.75
32	12-24.1	Devan L. Derby & Mallory Hammond	431/752	1.10
33	12-24	Timothy Ingram	335/837	4.90
34	12-23	Timothy Ingram	335/837	6.00
35	12-22	William & Joanne Ingram	140/502	84.30
36	12-26	Kenneth W. Hammond	393/592	41.25
37	12-3	Carl W. & Wanda L. Lemley	175/179	13.50
38	12-2	George C. & Stephanie D. Riddle	334/543	8.80
39	7-40	Brett Grimm, et al	342/538	86.60
40	12-1.1	Mark E. & Jacqueline M. Heintzman	287/303	2.68
41	12-1	Ralph E. & Constance L. Heintzman	167/419	20.60

	Leases
A	Eldon J. & Ruth A. Helman
В	Carol J. Cox
C	Ruth H. Wells
D	Norma R. Spencer
E	WVDNR
F	Benjamin Michael Kile
G	Mary Ann Devine
Н	Ivan W. Makely, et ux
1	Karen Moore Hwilka
J	William P. Ingram, et ux
К	William J. Goodfellow, et ux
L	William Michael Wells, et ux
M	Timothy B. Ingram
N	Myrtle Liva Tucker
0	Donald J. Berry
P	William P. Ingram
Q	Timothy B. Ingram
R	Beverly J. Lamp
5	Larry A. Wells, et ux
T	George C. Riddle, et ux
U	Erik D. Grimm

FILE NO: 02-54-U-20 DRAWING NO: Folger Unit 1H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

Denver, CO 80202

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

DATE: May 18 20 22 OPERATOR'S WELL NO. Folger Unit 1H API WELL NO - <u>095</u> - <u>02783</u>

COUNTY

PERMIT

STATE

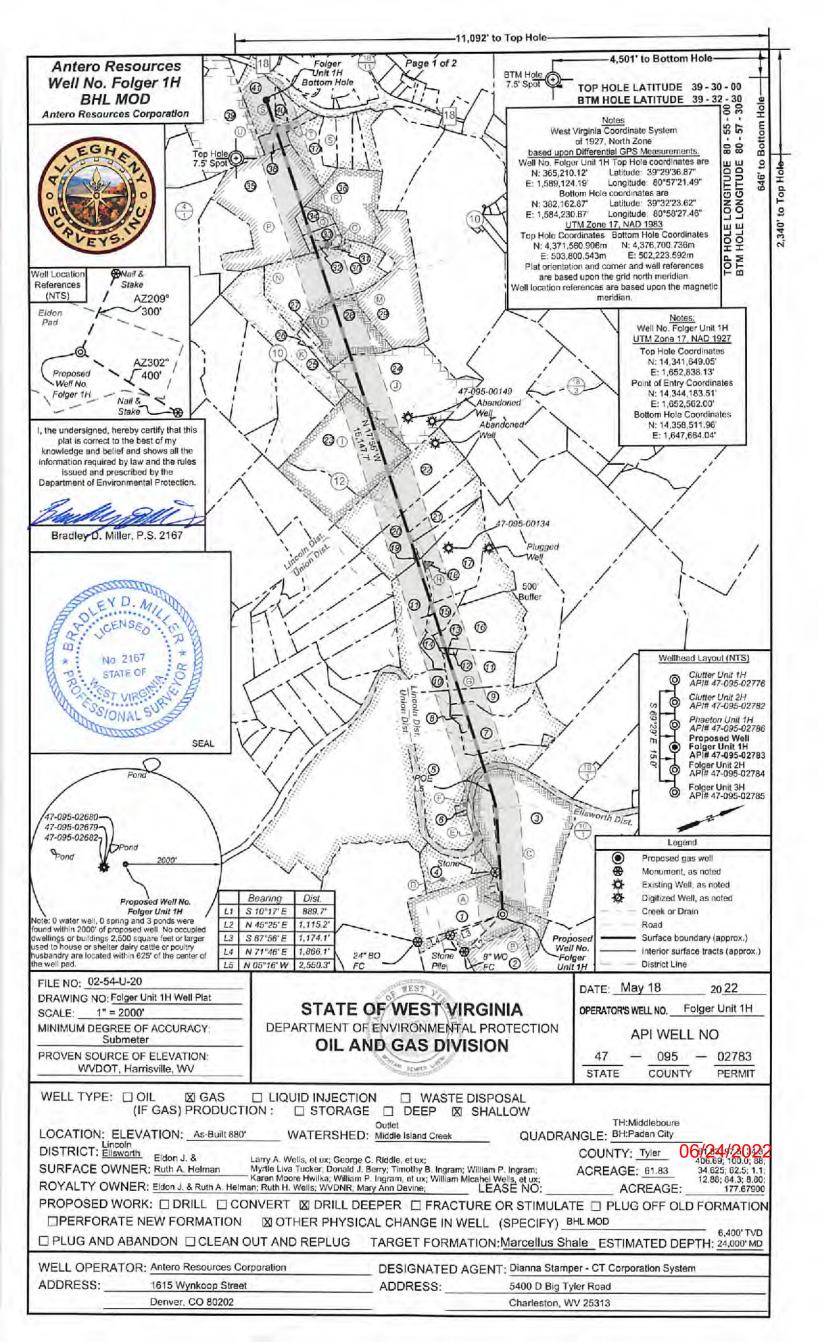
WELL TYPE:	OIL	X GAS	LIQUID INJECTION	U WAS	TE DISPOSA	AL		
	(IF GAS) F	PRODUCTION	I: ☐ STORAGE	☐ DEEP	X SHALLO	W		
	Co. September 1			Outlet			TH:Middleboure	
LOCATION: 1	ELEVATION:	As-Built 880'	WATERSHED:	Middle Island Cree	BK .	QUADRANGLE:	BH:Paden City	
DISTRICT:	sworth Eldon J.	& I a	rv A. Wells, et ux; George C.	Riddle et uv		COUN	VTY: Tyler ()(
OUDE LOE OF	AINIED BUS A	to tal	the Live Tuelser Deneld De		men William D In	ACDE	ACE. 81 93	

SURFACE OWNER: Ruth A. Helman Myrtle Liva Tucker; Donald J. Berry; Timothy B. Ingram; William P. Ingram; William P. Ingram; William P. Ingram; et ux; William Micahel Wells, et ux; ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; WVDNR; Mary Ann Devine; LEASE NO: ACREAGE:

PROPOSED WORK: ☐ DRILL ☐ CC	NVERT X DRILL DEEPER	☐ FRACTURE OR STIMU	JLATE PLUG OFF C	DLD FORMATION
□PERFORATE NEW FORMATION	IX OTHER PHYSICAL CH	IANGE IN WELL (SPECIF	() BHL MOD	6,400° TVD
DRUG AND ARANDON DOLEANO	OUT AND REPLUG TARC	SET FORMATION: Marcellus	Shale ESTIMATED	

				AND DESCRIPTION OF THE PARTY OF	
☐ PLUG AND ABANDON ☐ CLEAN OU	JT AND REPLUG	TARGET FORMATION	N:Marcellus Shale	_ESTIMATED DEPTH:	24,000' MD
DIEM GRATE NEW LOUMATION	M OTHER THIO	OAL CHANGE IN WELL	(01 2011 1)		6,400' TVD

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



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

DATE: May 18 20 22 OPERATOR'S WELL NO. Folger Unit 1H

API WELL NO

47 - 095 - 02783

WVDOT, Harrisville, WV	ALMON THE STATE OF	STATE COUNTY PERMIT
ROYALTY OWNER: Eldon J. & Ruth A. Helman PROPOSED WORK: DRILL CO PERFORATE NEW FORMATION	Outlet WATERSHED: Middle Island Creek QUAD Larry A. Wells, et ux; George C. Riddle, et ux; Myrtle Liva Tucker; Donald J. Berry; Timothy B. Ingram; William P. Ingram; Karen Moore Hwilks; William P. Ingram, et ux; William Micahel Wells, et ux; In; Ruth H. Wells; WYDNR; Mary Ann Devine; LEASE NO: NVERT IN DRILL DEEPER FRACTURE OR STIMUL OTHER PHYSICAL CHANGE IN WELL (SPECIFY)	
☐ PLUG AND ABANDON ☐ CLEAN C	UT AND REPLUG TARGET FORMATION: Marcellus	Shale ESTIMATED DEPTH: 24,000' MD
WELL OPERATOR: Antero Resources Cor ADDRESS: 1615 Wynkoop Street Denver, CO 80202	ADDRESS: 5400 D Big	amper - CT Corporation System g Tyler Road n, WV 25313

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
A: Eldon J. & Ruth A. Helman Lease			
Eldon J. Helman, et ux	Antero Resources Corporation	1/8+	0427/0610
C: Ruth H Wells Lease			
Ruth H Wells	Antero Resources Appalachian Corporation	1/8+	417/706
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	557/430
E: WVDNR Lease			
WVDNR	Antero Resources Corporation	1/8+	175/713
G: Mary Ann Devine Lease			
Mary Ann Devine	Antero Resources Corporation	1/8+	21/88
I: Karen Moore Hwika Lease			
Karen Moore Hwilka	Antero Resources Corporation	1/8+	140/773
J: William P Ingram et ux Lease			
William P Ingram et ux	Antero Resources Corporation	1/8+	148/145
L: William Michael Wells et ux			
William Michael Wells et ux	Antero Resources Corporation	1/8+	148/173
N: Myrtle Liva Tucker Lease			
Myrtle Liva Tucker	Antero Resources Corporation	1/8+	148/170
O: Donald J Berry Lease			
Donald J Berry	Antero Resources Corporation	1/8+	155/344
Q: Timothy B Ingram Lease			
Timothy B Ingram	Antero Resources Corporation	1/8+	148/156
P: William P Ingram Lease			
William P Ingram	Antero Resources Corporation	1/8+	148/145
T: George C Riddle et ux Lease			
George C Riddle ey ux	Antero Resources Corporation	1/8+	616/556

Operator's Well Number

Folger Unit 1H MOD

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
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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.

WW-6A1 (5/13)

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:

S: Larry A Wells et ux Lease	Larry A Wells et ux	Antero Resources Corporation	1/8+	136/61
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease Name or				

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:	Tim Rady	m ledy
Its:	Senior VP of Land	