

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 2H

47-095-02784-00-00

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 2H

Farm Name: ELDON J & RUTH A HELMAN

U.S. WELL NUMBER: 47-095-02784-00-00

Horizontal 6A New Drill

Date Modification Issued: 6/22/2022

Promoting a healthy environment.

API NO. 47-095	_ 02784	
OPERATOR V	VELL NO.	Folger Unit 2H MOD
Well Pad Na	me: Eldon	Pad

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

1) Well Operator:	Antero R	lesources (Corpora	494507062	095 - Tyler	Ellsworth	Middlebourne 7.5'
-				Operator ID	County	District	Quadrangle
2) Operator's We	ll Number:	Folger Uni	t 2H MOI	Well Pad	Name: Eldon	Pad	
3) Farm Name/Su	ırface Owne	er: Eldon J. 8	& Ruth A H	elman Public Roa	d Access: Alle	n Run Rd	
4) Elevation, curr	ent ground:	880' as	built Ele	evation, proposed	post-construction	on:	
5) Well Type (a) Gas X		_ Oil	Unde	erground Storag	ge	
C	Other _						
0	,	Shallow	<u>X</u>	Deep			
	_	Horizontal	<u>X</u>				
6) Existing Pad: \	-		() A ()	1051 . 1	- 	()	
, .	•	•		ipated Thickness a ss- 55 feet, Associa	-		
8) Proposed Tota	l Vertical D	epth: 6400	D' TVD			<u> </u>	
9) Formation at T	otal Vertica	al Depth: 👖	Marcellus	;	,		
10) Proposed Tot	al Measured	d Depth: 2	24,300'				
11) Proposed Hor	rizontal Leg	Length: 1	15,113'				
12) Approximate	Fresh Wate	r Strata Dep	oths:	156'			<u> </u>
13) Method to De	etermine Fre	sh Water D	epths: 4	7095009120000 Offset well	l records. Depths have	been adjusted a	according to surface elevations.
14) Approximate	Saltwater D	Depths: 16	76'				
15) Approximate	Coal Seam	Depths: N	one Antic	cipated			
16) Approximate	Depth to Po	ossible Void	d (coal mi	ne, karst, other):	None Anticipa	ted	
17) Does Propose directly overlying				ms Yes	No	X	
(a) If Yes, provi	ide Mine In	fo: Name:					
		Depth:					RECEIVED
		Seam:					Office of Oil and Gas
		Owner	:				JUN 0 6 2022
							WV Department of Environmental Protection

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06/24/2022

men 6-3-22

API NO. 47- 085 - 027

OPERATOR WELL NO. Folger Unit 2H MOD

Well Pad Name: Eldon 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	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#	24300'	24300'	CTS, 5195 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
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	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	1						

PACKERS

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A		······	RECEI/ED Office of Oil and
				Office of Oil and

JUN 06 2022

WV Department of Environmental Protection

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06/24/2022

Mla-6372

API NO. 47- 095 - 02784

OPERATOR WELL NO. Folger Unit 2H 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

JUN 06 2022

Office of Oil and Gas

WV Department of Environmental Prolection

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.

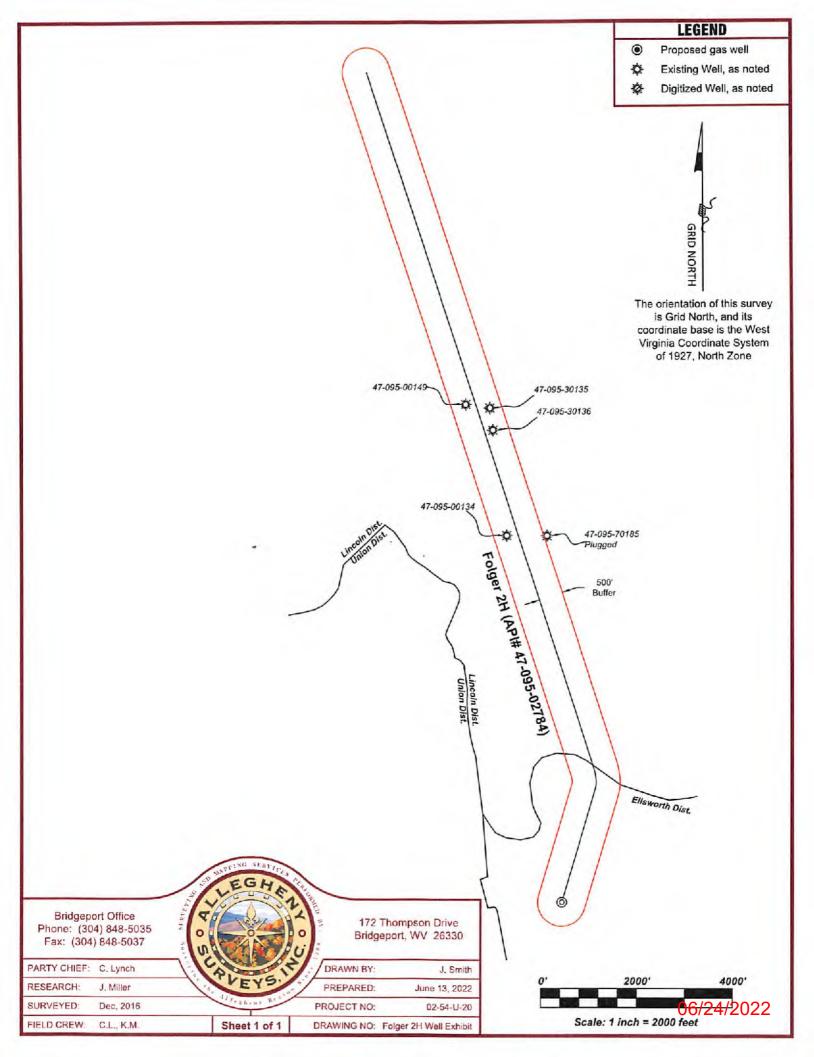
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

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06/24/2022

May 6-3-22

^{*}Note: Attach additional sheets as needed.



UWI (APINum)	Well Name	Well Number	Operator	Hist Oper	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095001490000	DAVID GARMAN HEIRS	2	TRIAD HUNTER LLC	BERENIH	1,642	1629 - 1642	Big Injun	Weir, Alexander, Berea
47095001340000	J W KILE	7	BERENIH	BERENIH	1,730			
47095301350000	J H MEREDITH	8	BERENIH	BERENIH	1,922		Keener	Weir, Alexander, Berea
47095301350000	J W KILE	2	BERENIH	BERENIH	1,729		Keener	Weir, Alexander, Berea
47095701850000	J H MEREDITH	6	PURE OIL CO THE	PURE OIL CO THE				

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	
F: Debra Lynn Warner Lease				
Debra Lynn Warner	Antero Resources Corporation	1/8+	127/334	
G: Mary Ann Devine Lease				
Mary Ann Devine	Antero Resources Corporation	1/8+	21/88	
K: William P Ingram et ux Lease				
William P Ingram et ux	Antero Resources Corporation	1/8+	148/145	
M: Timothy B Ingram Lease				
Timothy B Ingram	Antero Resources Corporation	1/8+	148/156	
L: William Michael Wells et ux Lease				
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	
R: Beverly J Lamp Lease				
Beverly J Lamp	Antero Resources Corporation	1/8+	117/164	
S: Larry A Wells et ux Lease				
Larry A Wells et ux	Antero Resources Corporation	1/8+	136/61	
T: George C Riddle et ux Lease				
George C Riddle et ux	Antero Resources Corporation	1/8+	616/556	

WW-6A1 (5/13)

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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
U: <u>Harold L. Marshall, Jr., et ux</u>	Lease			
	Harold L. Marshall, Jr., et ux	Antero Resources Corporation	1/8+	0427/0610

*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.

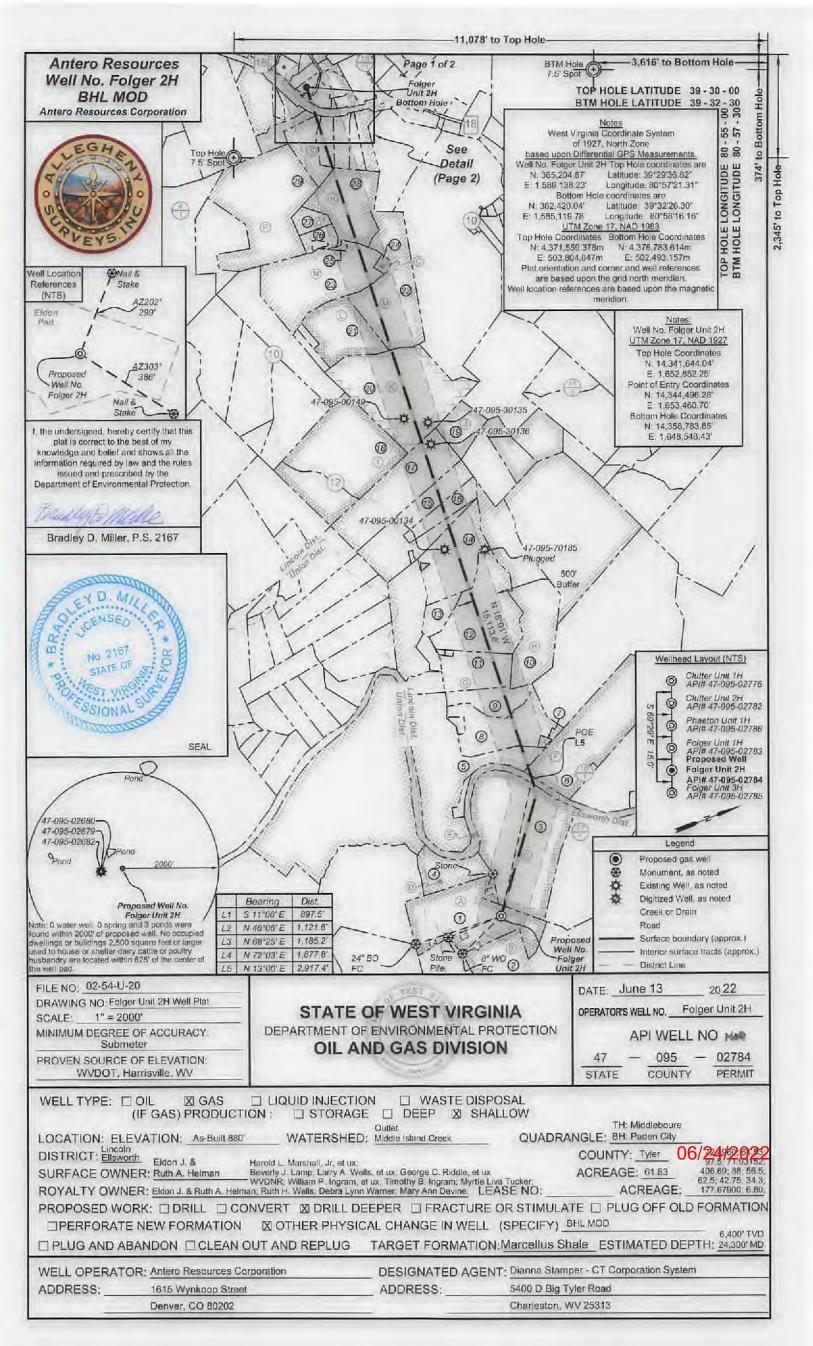
Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

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

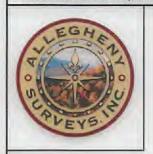
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Antero Reso	ources Corporation	
By:	Tim Rady	hun ledy	
Its:	Senior VP o	of Land	

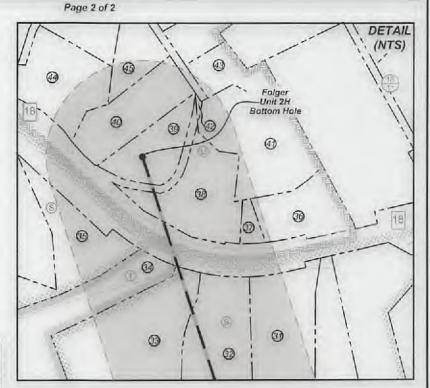


Antero Resources Well No. Folger 2H BHL MOD

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	15-16	Mary Ann Devine, et al	W36/282	81.67
7	15-15.1	Bruce B. Seckman	348/100	0.99
8	15-15	Jack B. & Bennie H. Kile, Jr.	155/195	39.64
9	15-15.2	Ridgetop Capital, LP	375/206	17.54
10	15-8	Ridgetop Capital, LP	375/206	68.20
11	15-10	Doris E. Haught	364/544	55,71
12	15-7.1	John Preston Litten	391/769	56.00
13	15-7.2	John P Litten	500/466	8.90
14	15-7	Ivan W. & Karen L. Makely	281/498	35.10
15	15-4	Ivan W. & Karen L. Makely	337/639	41.29
16	15-4.1	Ivan W. & Karen L. Makely	404/130	12.00
17	15-2	Stephen E. Surface, et al	365/302	54.00
18	12-55.1	Nathaniel V. & Tamela Frum	428/604	75.00
19	12-56	Gerald C. & Mary Lou Clutter	247/307	17.87
20	12-50	William P. Ingram	605/159	88.00
21	12-48	William Michael & Mary Ann Wells	314/416	34.62
22	12-45	Timothy B. Ingram	326/353	56.35
23	12-44	William P. Ingram	455/477	62.50
24	12-45.1	Timothy B. Ingram	326/353	1,98
25	12-25	Kenneth W. Hammond	363/204	0.75
26	12-24	Timothy Ingram	335/837	4.90
27	12-23	Timothy Ingram	335/837	6.00
28	12-26	Kenneth W. Hammond	393/592	41.25
29	12-22	William & Joanne Ingram	140/502	84.30
30	12-4.3	Judith L. Ashcraft	344/396	5.70
31	12-4.2	Kelley R. Stewart	325/921	8.30
32	12-4	Jean Ashcraft	294/666	7.10
33	12-3	Carl W. & Wanda L. Lemley	175/179	13.50
34	12-2	George C. & Stephanie D. Riddle	334/543	8.80
35	12-1	Ralph E. & Constance L. Heintzman	167/419	20.60
36	12-73	Larry H. & Elizabeth A. Helmick	351/153	2.80
37	12-73.1	Larry H. & Elizabeth A. Helmick	351/153	0.45
38	12-76	Timothy & Sandra Miller	352/12	4.17
39	8-46.18	William R. Romine	374/7	2,53
40	8-46.14	William R. Romine	W35/444	3.50
41	12-75	Frank L. & Connie S. Fluharty	392/547	5.34
42	12-74	Harold L. Jr. & Linda K. Marshall	337/658	0.06
43	8-46.8	Brian J. & Christine L. Pfohl	323/798	2.01
44	8-46.16	David A. & Diana S. Palmer	349/746	4.12
45	8-46.15	William R. Romine	W35/444	2.01



	Leases
A	Eldon J. & Ruth A. Helman
В	Carol J. Cox
C	Ruth H. Wells
D	Norma R. Spencer
E	WVDNR
F	Debra Lynn Warner
G	Mary Ann Devine
Н	Ridgetop Capital, LP
1	Karen Moore Hwilka
J	Gerald C Clutter, et ux
K	William P Ingram, et ux
L	William Michael Wells, et ux
M	Timothy B. Ingram
N	Myrtle Liva Tucker
0	Timothy B. Ingram
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	Harold L. Marshall, Jr., et ux

FILE NO: 02-54-U-20 DRAWING NO: Folger Unit 2H Well Plat 1" = 2000" SCALE: 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: June 13 20.22 OPERATOR'S WELL NO. Folger Unit 2H API WELL NO MAD 02784 47 095 STATE COUNTY PERMIT

WELL TYPE:	OIL	⊠ GAS	□ LIC	QUID INJECTION	NC	□ WA	STE	DISPOSAL
	(IF GAS)	PRODUCTI	ON:	☐ STORAG	E 🗆	DEEP	X	SHALLOW
LOCATION: E	EVATION	As-Built 880'		WATERSHED	Outle		eek	QUADE
DISTRICT: File				***************************************				

SURFACE OWNER: Ruth A. Helman

ROYALTY OWNER: Eldon J. & Ruth A. Helman, Ruth H. Wells; Debra Lynn Warner; Mary Ann Devine; LEASE NO:

TH: Middleboure RANGLE: BH: Paden City COUNTY: Tyler 06/24/202

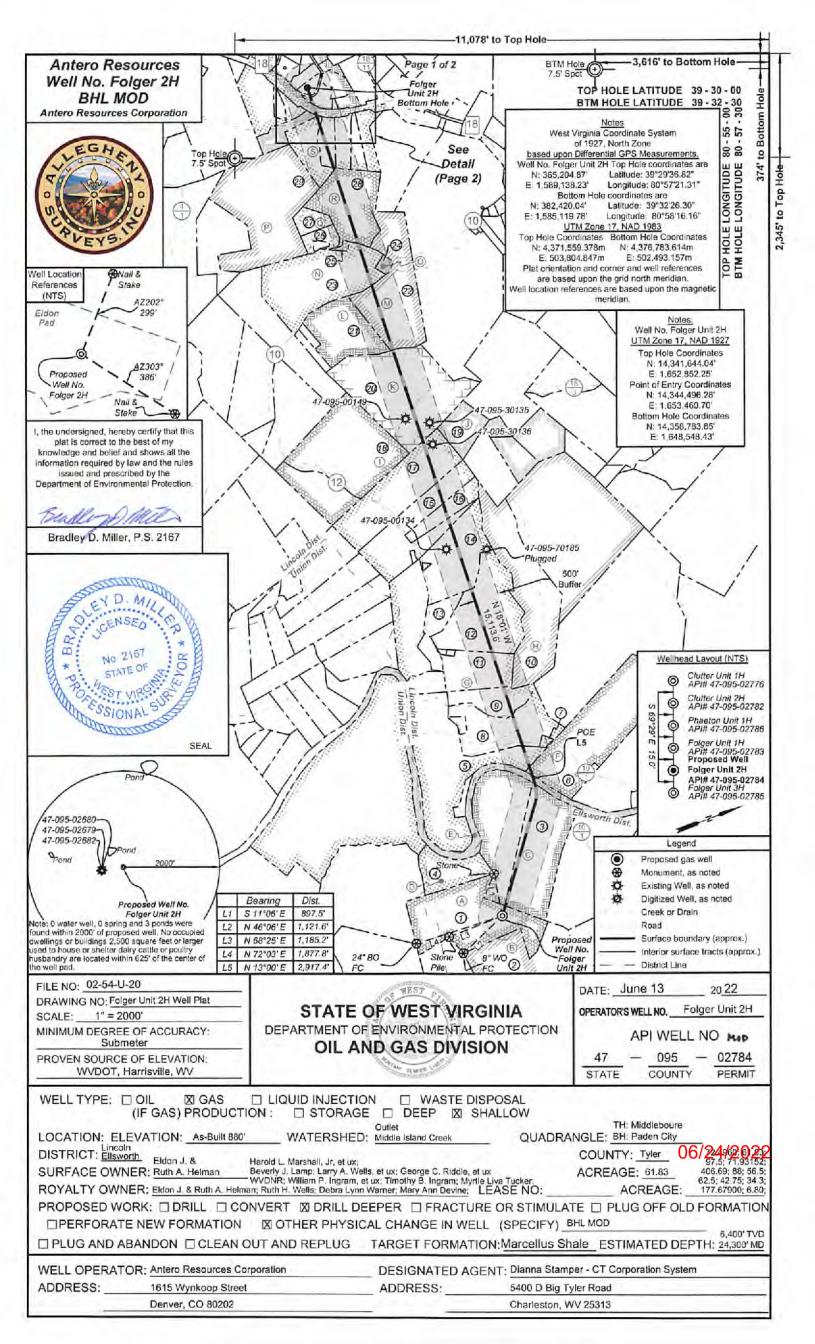
ACREAGE: 61.83 ACREAGE:

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☑ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

□ PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,300' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

DESIGNATED AGENT: Dianna Stamper - CT Corporation System WELL OPERATOR: Antero Resources Corporation

5400 D Big Tyler Road ADDRESS: 1615 Wynkoop Street ADDRESS: Denver, CO 80202 Charleston, WV 25313

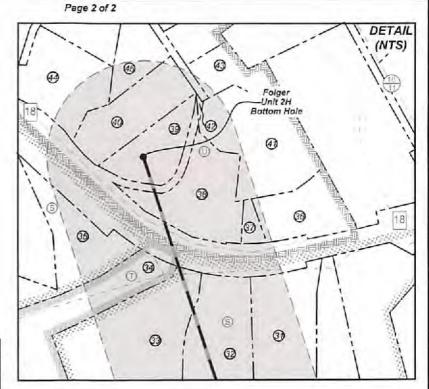


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Q	Timothy B. Ingram
R	Beverly J. Lamp
S	Larry A. Wells, et ux
T	George C. Riddle, et ux
U	Harold L. Marshall, Jr., et ux

Charleston, WV 25313

FILE NO: 02-54-U-20 DRAWING NO: Folger Unit 2H Well Plat SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY: Submeter

Denver, CO 80202

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

MEST

DATE: June 13 2022 OPERATOR'S WELL NO. Folger Unit 2H API WELL NO MOD 02784 095 47 COUNTY PERMIT STATE

WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: As-Built 880' WATERSHED: Middle Island Creek QUADRANGLE: BH: Paden City
DISTRICT: Ellsworth Eldon J. & Harold L. Marshall, Jr, et ux; SURFACE OWNER; Ruth A. Helman Beverly J. Lamp; Larry A. Wells, et ux; George C. Riddle, et ux ACREAGE: 61.83 406.69: 88: 56
WVDNR; William P. Ingram, et ux; Timothy B. Ingram, Myrtle Liva Tucker; 62.5; 42.75; 34 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Ruth H. Wells; Debra Lynn Warner; Mary Ann Devine; LEASE NO: ACREAGE: 177.67900; 6.8
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6.400' TV
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,300' M
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road

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. Heiman, 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
F: Debra Lynn Warner Lease			
Debra Lynn Warner	Antero Resources Corporation	1/8+	127/334
G: Mary Ann Devine Lease			
Mary Ann Devine	Antero Resources Corporation	1/8÷	21/88
K: William P Ingram et ux Lease			
William P Ingram et ux	Antero Resources Corporation	1/8+	148/145
M: Timothy B Ingram Lease			
Timothy B Ingram	Antero Resources Corporation	1/8+	148/156
L: William Michael Wells et ux Lease			
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
R: Beverly J Lamp Lease			
Beverly J Lamp	Antero Resources Corporation	1/8+	117/164
S: Larry A Wells et ux Lease			
Larry A Wells et ux	Antero Resources Corporation	1/8+	135/61
T: George C Riddle et ux Lease			
George C Riddle et ux	Antero Resources Corporation	1/8+	616/556

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Office of Oil and Gas

JUN 0 6 2022

WV Department of Environmental Protection WW-6A1 (5/13)

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
U: Harold L. Marshall. Ir., et ux Lea	<u>se</u> Harold L. Marshall, Jr., et ux	Antero Resources Corporation	1/8+	0427/0610

"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	1. Com 1 (1/13)			
Its:	Senior VP o	f Land			

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