

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-095-02776 County Tyler District Ellsworth, Union, Lincoln
Quad Top Hole: Middlebourne - Btm Hole: Paden City Pad Name Eldon Field/Pool Name -----
Farm name Eldon J. & Ruth A. Helman Well Number Clutter Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4371565m Easting 503788m
Landing Point of Curve Northing 14341041.19m Easting 1650773.98m
Bottom Hole Northing 4376452m Easting 501420m

Elevation (ft) 880' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Air - Foam & 4% KCL

Mud - Polymer

Date permit issued 1/21/2022 Date drilling commenced 6/1/2022 Date drilling ceased 8/28/2022
Date completion activities began 10/1/2022 Date completion activities ceased 12/13/2022
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 156' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1676' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

APPROVED 08/18/2023
[Signature]
0124/23

API 47-095 - 02776 Farm name Eldon J. & Ruth A. Helman Well number Clutter Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	26"	20"	130'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	350'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2922'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	24305'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6522'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	141 sx	15.6	1.18	166	0'	8 Hrs.
Surface	Class A	374 sx	15.8	1.20	449	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1125 sx	15.8	1.16	1305	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4020 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.25 (Tail)	5025	-500' into intermediate casing	8 Hrs.
Tubing							

Drillers TD (ft) 24305' MD, 5963' TVD (BHL), 6113' (Deepest Point Drilled) Loggers TD (ft) 26600' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5757'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic


Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

08/18/2023 

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

08/18/2023 

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6036' (TOP)</u>	<u>TVD</u>	<u>6682' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1498 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 13048 mcfpd Oil 402 bpd NGL --- bpd Water 1754 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116


Cementing Company Halliburton Energy Services
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 1/31/2023

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

08/18/2023 

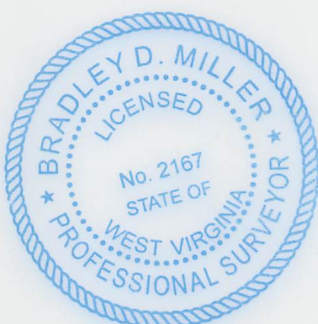
Antero Resources
Well No. Clutter 1H
As-Drilled
 Antero Resources Corporation



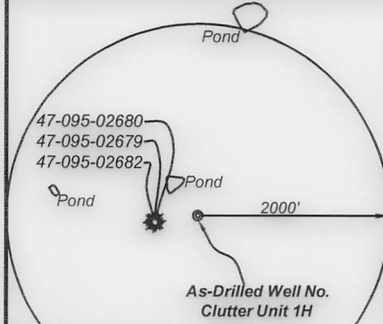
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegany Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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



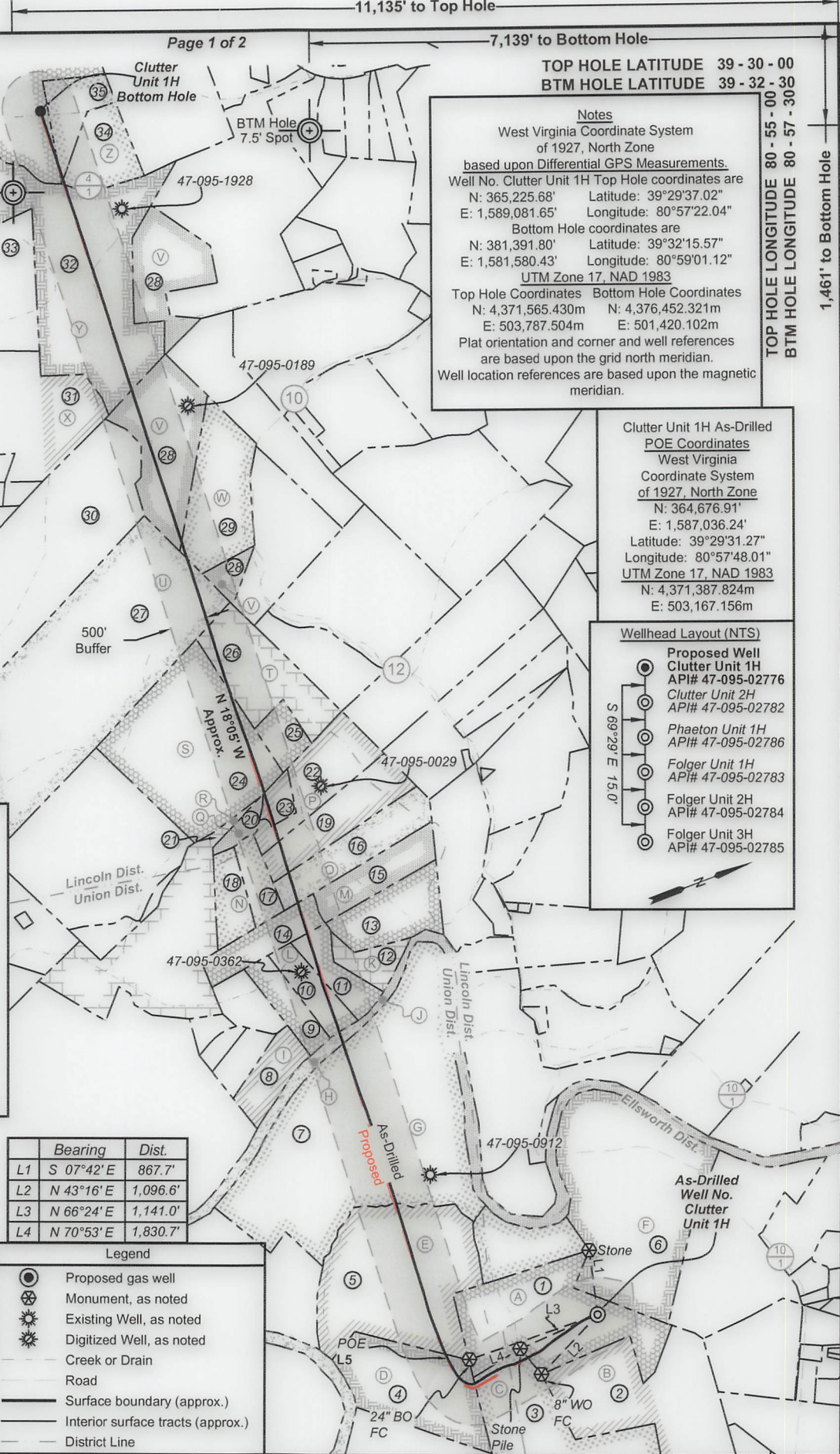
SEAL



Note: 0 water well, 0 spring and 3 ponds were found within 2000' of proposed well. No occupied dwellings or 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.

	Bearing	Dist.
L1	S 07°42' E	867.7'
L2	N 43°16' E	1,096.6'
L3	N 66°24' E	1,141.0'
L4	N 70°53' E	1,830.7'

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



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Clutter Unit 1H Top Hole coordinates are
 N: 365,225.68' Longitude: 80°57'22.04"
 E: 1,589,081.65'
 Bottom Hole coordinates are
 N: 381,391.80' Longitude: 39°32'15.57"
 E: 1,581,580.43' Longitude: 80°59'01.12"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,371,565.430m N: 4,376,452.321m
 E: 503,787.504m E: 501,420.102m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Clutter Unit 1H As-Drilled POE Coordinates
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 N: 364,676.91'
 E: 1,587,036.24'
 Latitude: 39°29'31.27"
 Longitude: 80°57'48.01"
 UTM Zone 17, NAD 1983
 N: 4,371,387.824m
 E: 503,167.156m

- Wellhead Layout (NTS)**
- Proposed Well Clutter Unit 1H API# 47-095-02776
 - Clutter Unit 2H API# 47-095-02782
 - Phaeton Unit 1H API# 47-095-02786
 - Folger Unit 1H API# 47-095-02783
 - Folger Unit 2H API# 47-095-02784
 - Folger Unit 3H API# 47-095-02785

FILE NO: 268-54-E-21
 DRAWING NO: Clutter Unit 1H As-Drilled
 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: February 22 2023
 OPERATOR'S WELL NO. Clutter Unit 1H
 API WELL NO
 47 - 095 - 02776
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 880' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Top Hole: Middlebourne 99.6471; Btm Hole: Paden City 61.82; 186.008; 61.82; 186.008;
 DISTRICT: Union, Lincoln Elsworth, William P. Ingram; James Arthur Shreves, et ux; James H. Williamson; COUNTY: Tyler 61.82; 186.008;
 SURFACE OWNER: Ruth A. Helman Eldon J. & Flora Patterson Woodburn; Margaret Conaway-Torok; Keith V. Frum, et ux; ACREAGE: 61.83 53; 78.49; 25.05;
 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Charles M., Jr. & Crystal R. Young; Dena Raye Grimes; Robert L. Sherman; LEASE NO: ACREAGE: 77.3; 128.55; 31.25;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 5,963' TVD 24,305' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330



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	10-10	Lora K. Thomas	201/359	307.05
4	10-1	Lora K. Thomas	175/19	53.00
5	6-2	Eldon J. & Ruth A. Helman	383/761	83.13
6	13-10	Eldon J. & Ruth A. Helman	383/761	96.82
7	6-1	Eldon J. & Ruth A. Helman	383/761	169.00
8	6-6.14	Arlen G. Wells, Jr.	339/611	15.00
9	6-6.13	David S. Clough	351/752	12.25
10	6-6.12	David S. Clough	351/752	12.95
11	6-6.11	David S. Clough	351/752	12.40
12	6-6.10	Jeffrey M. & Jill S. Mennillo	368/770	9.90
13	6-6.9	David S. Clough	351/712	24.54
14	6-6.7	David S. Clough	351/752	16.35
15	6-6.8	Alan B. & Traci L. Clough	354/306	18.30
16	6-6.6	Richard Keith McCollum	362/348	25.05
17	6-6.3	Ethan P. Wells	445/727	9.55
18	6-6.2	Ethan P. Wells	445/727	11.85
19	6-6.5	Crystal R. & Charles J. Young, Jr.	345/211	25.65
20	6-6.1	Charles Young Jr. & Crystal Young	461/81	4.30
21	6-4	Kathryn S. Lehman	379/562	67.00
22	6-6.4	Crystal R. & Charles J. Young, Jr.	368/773	25.35
23	6-6	Crystal R. & Charles J. Young, Jr.	368/773	5.06
24	6-5	Linda Pryor Henriksen & Roy Henriksen	637/558	83.60
25	15-3	Dena Grimes	W35/150	11.00
26	15-1	S.P. & Otto Woodburn Estate	97/423	33.74
27	14-1	Edward E. & Connie Howell	361/829	158.74
28	12-21	Keith V. & Barbara L. Frum	280 / 358	77.30
29	12-46	Keith V. & Barbara L. Frum	280/358	40.89
30	11-11	Thomas E. Bowen	374/636	119.75
31	11-18	William L. & Lynn A. Hinkle	366/387	72.50
32	11-10	James Arthur & Dorothy J. Shreves	183/420	128.55
33	11-24	Ryan Chambers & Nancy Marie Chaplin	348/763	77.00
34	11-9	Christian & Anna Forrester Estate	85/575	18.25
35	11-8	Christian & Anna Forrester Estate	98/118	13.00
36	11-7	Robert L. Sherman	369/843	99.56

Leases	
A	Eldon J. & Ruth A. Helman
B	Carol J. Cox
C	Lora Keller Thomas
D	Lora Keller Thomas
E	Gary C. & Maryjane Richards
F	Ruth H. Wells
G	Norma R. Spencer
H	WVDNR
I	Arlen G. Jr. & Marsha A. Wells
J	WVDNR
K	Jeffrey M. Mennillo, et ux
L	David S. Clough
M	Alan B. Clough, et ux
N	Everett E. & Melissa D. Higgins
O	Richard Keith McCollum
P	Charles M. Jr. & Crystal R. Young
Q	Ridgetop Royalties, LLC
R	Greenbrier Royalty Fund II, LLC
S	Dena Raye Grimes
T	Flora Patterson Woodburn
U	Margaret Conaway-Torok
V	William P. Ingram
W	Keith V. Frum, et ux
X	William L. Hinkle
Y	James Arthur Shreves, et ux
Z	James H. Williamson
AA	Robert L. Sherman

FILE NO: 268-54-E-21
 DRAWING NO: Clutter Unit 1H As-Drilled
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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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47 - 095 - 02776
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 DISTRICT: Union, Lincoln COUNTY: Type
 SURFACE OWNER: Eldon J. & Ruth A. Helman LEASE NO: 08/18/2023
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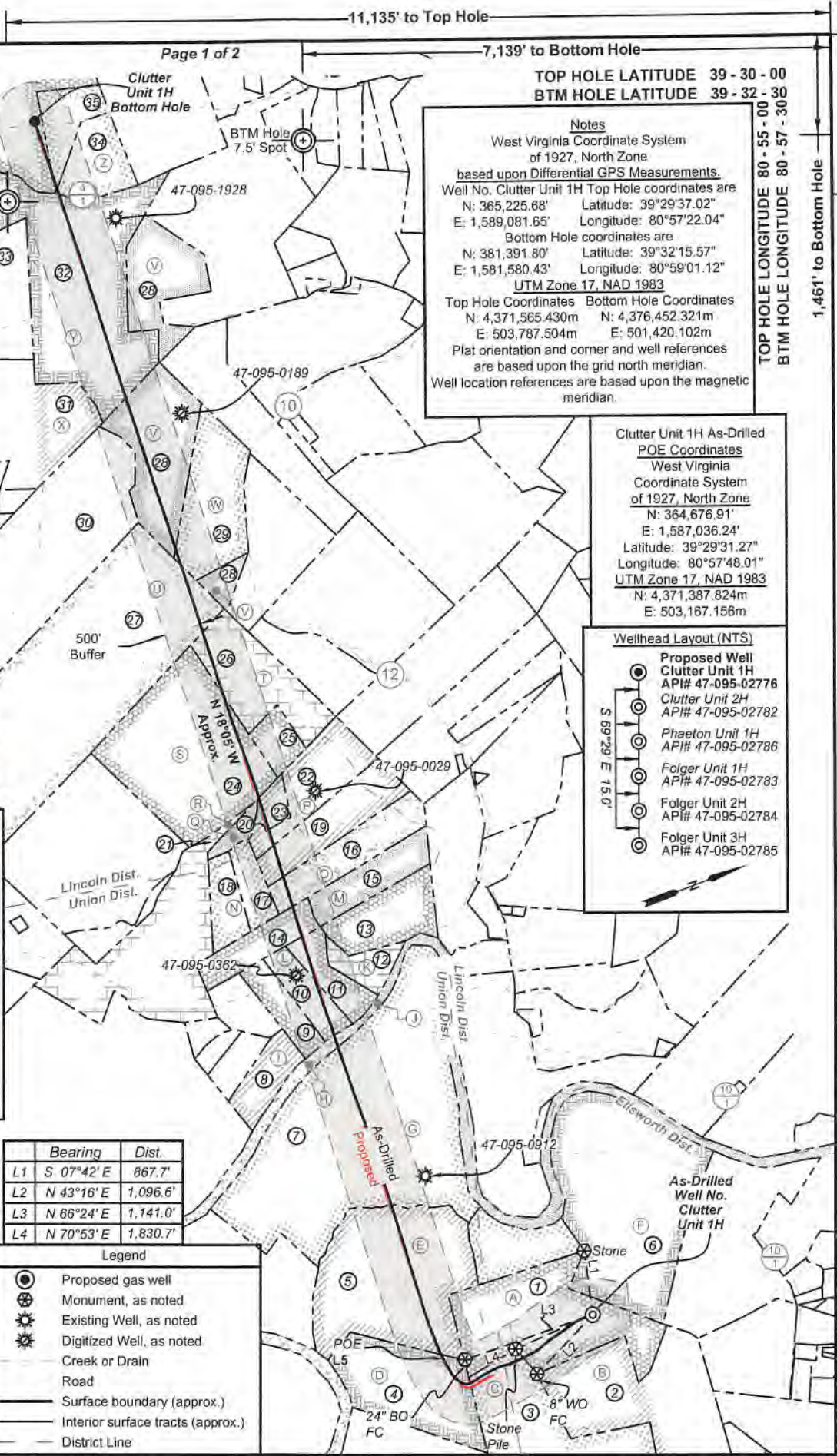
Antero Resources
Well No. Clutter 1H
As-Drilled
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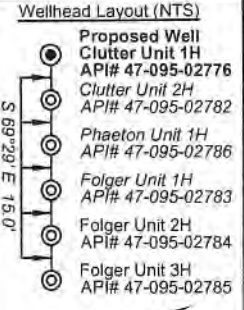
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



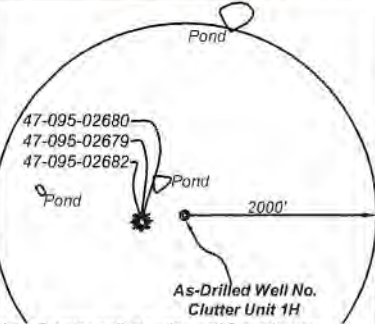
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N	Everett E. & Melissa D. Higgins
O	Richard Keith McCollum
P	Charles M. Jr. & Crystal R. Young
Q	Ridgetop Royalties, LLC
R	Greenbrier Royalty Fund II, LLC
S	Dena Raye Grimes
T	Flora Patterson Woodburn
U	Margaret Conaway-Torok
V	William P. Ingram
W	Keith V. Frum, et ux
X	William L. Hinkle
Y	James Arthur Shreves, et ux
Z	James H. Williamson
AA	Robert L. Sherman

FILE NO: 268-54-E-21
 DRAWING NO: Clutter Unit 1H As-Drilled
 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: February 22 2023
 OPERATOR'S WELL NO. Clutter Unit 1H
 API WELL NO
 47 - 095 - 02776
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 880' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Top Hole: Middleboure 99.6471; Btm Hole: Paden City 61.83; 186.008;
 DISTRICT: Union, Lincoln Ellsworth, William P. Ingram; James Arthur Shreves, et ux; James H. Williamson; COUNTY: Tyler 84.92; 57.23;
 SURFACE OWNER: Ruth A. Helman Eldon J. & Ruth A. Helman; Flora Patterson Woodburn; Margaret Conaway-Torok; Keith V. Frum, et ux; ACREAGE: 61.83 53; 78.49; 25.05;
 ROYALTY OWNER: Eldon J. & Ruth A. Helman; Lora Keller Thomas (2); Gary C. & Maryjane Richards; LEASE NO: ACREAGE: 77.3; 128.55; 31.25;
 56.06; 107.48438;
 33.74; 158.74; 40.89;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 5,963' TVD 24,305' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/01/2022	24180.0	24138	60	Marcellus
2	10/02/2022	24098.7	23934	60	Marcellus
3	10/02/2022	23898.7	23734	60	Marcellus
4	10/03/2022	23698.7	23534	60	Marcellus
5	10/03/2022	23498.7	23334	60	Marcellus
6	10/04/2022	23298.7	23134	60	Marcellus
7	10/04/2022	23098.7	22934	60	Marcellus
8	10/04/2022	22898.7	22734	60	Marcellus
9	10/04/2022	22698.7	22534	60	Marcellus
10	10/05/2022	22498.7	22334	60	Marcellus
11	10/05/2022	22298.7	22134	60	Marcellus
12	10/05/2022	22098.7	21934	60	Marcellus
13	10/06/2022	21898.7	21734	60	Marcellus
14	10/06/2022	21698.7	21534	60	Marcellus
15	10/06/2022	21498.7	21334	60	Marcellus
16	10/06/2022	21298.7	21134	60	Marcellus
17	10/07/2022	21098.7	20934	60	Marcellus
18	10/07/2022	20898.7	20734	60	Marcellus
19	10/07/2022	20698.7	20534	60	Marcellus
20	10/07/2022	20498.7	20334	60	Marcellus
21	10/08/2022	20298.7	20134	60	Marcellus
22	10/08/2022	20098.7	19934	60	Marcellus
23	10/08/2022	19898.7	19734	60	Marcellus
24	10/09/2022	19698.7	19534	60	Marcellus
25	10/09/2022	19498.7	19334	60	Marcellus
26	10/09/2022	19298.7	19134	60	Marcellus
27	10/10/2022	19098.7	18934	60	Marcellus
28	10/10/2022	18898.7	18734	60	Marcellus
29	10/10/2022	18698.7	18534	60	Marcellus
30	10/10/2022	18498.7	18334	60	Marcellus
31	10/11/2022	18298.7	18134	60	Marcellus
32	10/11/2022	18098.7	17934	60	Marcellus
33	10/11/2022	17898.7	17734	60	Marcellus
34	10/12/2022	17698.7	17534	60	Marcellus
35	10/12/2022	17498.7	17334	60	Marcellus
36	10/12/2022	17298.7	17134	60	Marcellus
37	10/12/2022	17098.7	16934	60	Marcellus
38	10/12/2022	16898.7	16734	60	Marcellus
39	10/13/2022	16698.7	16534	60	Marcellus
40	10/13/2022	16498.7	16334	60	Marcellus
41	10/13/2022	16298.7	16134	60	Marcellus
42	10/13/2022	16098.7	15934	60	Marcellus
43	10/14/2022	15898.7	15734	60	Marcellus
44	10/14/2022	15698.7	15534	60	Marcellus
45	10/14/2022	15498.7	15334	60	Marcellus
46	10/14/2022	15298.7	15134	60	Marcellus
47	10/14/2022	15098.7	14934	60	Marcellus
48	10/15/2022	10/14/1940	14734.0	60	Marcellus
49	10/15/2022	3/28/1940	14534.0	60	Marcellus
50	10/15/2022	9/10/1939	14334.0	60	Marcellus
51	10/15/2022	2/22/1939	14134.0	60	Marcellus
52	10/15/2022	8/6/1938	13934.0	60	Marcellus
53	10/16/2022	1/18/1938	13734.0	60	Marcellus
54	10/16/2022	7/2/1937	13534.0	60	Marcellus
55	10/16/2022	12/14/1936	13334.0	60	Marcellus
56	10/16/2022	5/28/1936	13134.0	60	Marcellus
57	10/17/2022	11/10/1935	12934.0	60	Marcellus
58	10/17/2022	4/24/1935	12734.0	60	Marcellus
59	10/17/2022	10/6/1934	12534.0	60	Marcellus
60	10/17/2022	3/20/1934	12334.0	60	Marcellus
61	10/17/2022	9/1/1933	12134.0	60	Marcellus
62	10/18/2022	2/13/1933	11934.0	60	Marcellus
63	10/18/2022	7/28/1932	11734.0	60	Marcellus
64	10/18/2022	1/10/1932	11534.0	60	Marcellus
65	10/18/2022	6/24/1931	11334.0	60	Marcellus
66	10/18/2022	12/6/1930	11134.0	60	Marcellus
67	10/19/2022	5/20/1930	10934.0	60	Marcellus
68	10/19/2022	11/1/1929	10734.0	60	Marcellus
69	10/19/2022	4/15/1929	10534.0	60	Marcellus
70	10/19/2022	9/27/1928	10334.0	60	Marcellus
71	10/19/2022	3/11/1928	10134.0	60	Marcellus
72	10/20/2022	8/24/1927	9934.0	60	Marcellus
73	10/20/2022	2/5/1927	9734.0	60	Marcellus
74	10/20/2022	7/20/1926	9534.0	60	Marcellus
75	10/20/2022	1/1/1926	9334.0	60	Marcellus
76	10/20/2022	6/15/1925	9134.0	60	Marcellus
77	10/21/2022	11/27/1924	8934.0	60	Marcellus
78	10/21/2022	5/11/1924	8734.0	60	Marcellus
79	10/21/2022	10/24/1923	8534.0	60	Marcellus
80	10/21/2022	4/7/1923	8334.0	60	Marcellus
81	10/21/2022	9/19/1922	8134.0	60	Marcellus
82	10/21/2022	3/3/1922	7934.0	60	Marcellus
83	10/22/2022	8/15/1921	7734.0	60	Marcellus
84	10/22/2022	1/27/1921	7534.0	60	Marcellus
85	10/22/2022	7/11/1920	7334.0	60	Marcellus
86	10/22/2022	12/24/1919	7134.0	60	Marcellus
87	10/22/2022	6/7/1919	6934.0	60	Marcellus
88	10/23/2022	11/19/1918	6734.0	60	Marcellus

08/18/2023

EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	10/01/2022	81.5	9181.0	8505.0	3830.0	168480	301205	N/A
2	10/02/2022	95.1	9920.5	6284.5	3400.5	409710	318160	N/A
3	10/02/2022	94.7	9381.7	5252.4	4660.9	406437	356352	N/A
4	10/03/2022	96.1	9618.9	5353.6	4750.5	406054	334951	N/A
5	10/03/2022	98.5	9796.5	5301.9	4244.2	414254	361902	N/A
6	10/04/2022	94.7	9435.3	5436.2	3631.7	397758	332533	N/A
7	10/04/2022	95.3	9584.2	5473.4	2942.0	411085	312359	N/A
8	10/04/2022	98.8	9609.5	3756.3	3435.9	415404	357860	N/A
9	10/04/2022	91.9	9511.7	6219.1	3259.2	409594	297170	N/A
10	10/05/2022	93.8	9440.1	5994.7	3529.5	397968	292538	N/A
11	10/05/2022	95.2	9535.0	5701.0	3339.0	408212	301112	N/A
12	10/05/2022	96.4	9843.0	5831.0	3526.0	406419	303262	N/A
13	10/06/2022	94.4	9379.1	4927.1	3535.2	417088	285302	N/A
14	10/06/2022	95.7	9436.8	4705.7	3653.2	412406	297397	N/A
15	10/06/2022	97.4	9519.9	4551.6	3188.0	405222	294193	N/A
16	10/06/2022	93.2	9333.6	5291.2	3131.4	409907	363066	N/A
17	10/07/2022	95.5	9707.1	5034.7	4952.2	407629	284951	N/A
18	10/07/2022	95.4	9697.1	4957.5	4955.4	408005	283520	N/A
19	10/07/2022	95.9	9814.0	5322.5	3029.6	400789	290580	N/A
20	10/07/2022	95.5	9581.7	4674.3	4078.9	403342	284724	N/A
21	10/08/2022	89.3	9208.3	4656.0	4603.2	354093	265710	N/A
22	10/08/2022	96.4	9098.1	4970.2	4980.1	401688	322403	N/A
23	10/08/2022	93.8	9201.0	4434.0	3288.0	403877	318573	N/A
24	10/09/2022	94.1	9119.2	5562.1	3385.8	407428	323688	N/A
25	10/09/2022	95.0	9171.3	4853.0	3240.8	411835	310894	N/A
26	10/09/2022	95.2	8999.3	4897.1	3327.6	406580	314799	N/A
27	10/10/2022	96.0	8900.6	5664.8	3117.3	416237	326371	N/A
28	10/10/2022	92.8	8347.9	5492.0	3105.2	416904	317207	N/A
29	10/10/2022	93.0	8499.7	5391.7	3531.3	416742	314357	N/A
30	10/10/2022	95.0	8473.5	5426.4	3090.9	404181	311623	N/A
31	10/11/2022	89.1	8932.0	4787.5	3903.5	410523	311438	N/A
32	10/11/2022	86.7	8753.6	5103.8	3861.7	404156	321793	N/A
33	10/11/2022	88.2	8290.9	4032.7	3261.9	404540	310204	N/A
34	10/12/2022	90.2	8347.0	6268.2	3167.3	403532	303867	N/A
35	10/12/2022	90.5	8619.7	5437.6	4179.8	378841	390800	N/A
36	10/12/2022	88.3	8135.2	5639.6	3442.4	400960	310005	N/A
37	10/12/2022	90.5	7977.1	5188.2	5239.9	413204	307929	N/A
38	10/12/2022	90.2	8028.8	4912.0	3372.8	409832	307549	N/A
39	10/13/2022	91.2	8190.0	4670.8	3694.8	410705	315548	N/A
40	10/13/2022	88.8	8134.0	5066.2	3637.7	415087	304814	N/A
41	10/13/2022	88.9	7846.4	3764.9	4684.3	416269	307546	N/A
42	10/13/2022	91.6	7762.0	5038.0	4685.0	414396	308501	N/A
43	10/14/2022	91.0	7776.2	3908.8	3623.1	415318	308581	N/A
44	10/14/2022	88.9	7848.2	5582.0	3197.0	398431	295664	N/A
45	10/14/2022	90.5	7980.6	5380.3	3316.3	399786	296506	N/A
46	10/14/2022	91.0	7626.2	4668.0	3489.0	416600	304508	N/A
47	10/14/2022	91.4	7541.4	5417.0	3425.0	403311	299304	N/A
48	10/15/2022	92.2	7416.7	2874.4	3720.6	409865	302352	N/A
49	10/15/2022	90.4	7677.7	4743.5	3440.2	408884	300962	N/A
50	10/15/2022	90.9	7709.4	4997.7	3509.3	407524	301976	N/A
51	10/15/2022	90.4	7566.2	4823.1	3987.3	413977	294094	N/A
52	10/15/2022	91.1	7704.4	3269.6	3337.4	823192	293556	N/A
53	10/16/2022	91.4	7992.1	4261.8	4544.1	411775	296051	N/A
54	10/16/2022	90.0	7567.3	5002.2	3277.8	406928	292330	N/A
55	10/16/2022	90.1	8177.1	4980.2	3351.2	410196	293158	N/A
56	10/16/2022	91.3	7989.0	5311.0	3268.0	412265	293729	N/A
57	10/17/2022	92.1	7855.0	4036.0	3692.0	405450	298035	N/A
58	10/17/2022	91.5	8145.3	4604.6	3505.0	402381	290460	N/A
59	10/17/2022	91.1	8201.7	5042.0	4305.8	407117	293343	N/A
60	10/17/2022	91.6	7864.1	4306.4	3672.9	397510	279403	N/A
61	10/17/2022	92.0	7993.4	4576.5	4648.1	414298	290655	N/A
62	10/18/2022	92.5	7554.2	3903.5	3874.7	417237	291783	N/A
63	10/18/2022	90.5	7354.0	5619.0	3435.0	402981	281424	N/A
64	10/18/2022	90.2	7572.0	4606.0	3444.0	404143	274564	N/A
65	10/18/2022	90.6	7217.6	4966.5	3438.4	413567	282144	N/A
66	10/18/2022	92.4	7095.0	3866.0	4033.0	405372	277730	N/A
67	10/19/2022	92.5	7119.3	4310.1	4466.1	406636	281793	N/A
68	10/19/2022	92.2	7214.6	4694.4	3249.0	400704	276383	N/A
69	10/19/2022	91.8	7087.2	4577.5	4033.7	398473	269505	N/A
70	10/19/2022	92.6	6660.0	4647.0	3452.0	411788	278549	N/A
71	10/19/2022	92.0	6895.0	3742.0	3915.0	397938	279285	N/A
72	10/20/2022	92.5	6711.2	4190.4	3875.9	395872	277161	N/A
73	10/20/2022	92.0	6725.7	4233.4	3817.3	407955	277955	N/A
74	10/20/2022	91.8	6759.0	5232.0	4598.0	413844	282206	N/A
75	10/20/2022	91.3	6722.0	4607.0	4586.0	409489	283592	N/A
76	10/20/2022	92.8	7059.0	5099.0	3947.0	408589	295237	N/A
77	10/21/2022	94.7	6734.2	4807.6	3313.4	408818	293656	N/A
78	10/21/2022	93.1	6829.4	4202.9	3672.7	400428	290548	N/A
79	10/21/2022	91.6	6580.0	4277.0	4342.0	414870	284154	N/A
80	10/21/2022	90.9	6505.0	3733.0	4011.0	400951	291271	N/A
81	10/21/2022	92.3	6608.7	4384.5	4462.2	405462	281897	N/A
82	10/21/2022	92.2	6631.0	4550.0	4472.0	397737	288007	N/A
83	10/22/2022	91.4	6407.3	3497.2	3871.7	408335	287357	N/A
84	10/22/2022	92.2	6627.5	4693.4	3072.5	406694	276403	N/A
85	10/22/2022	85.2	6667.0	5059.8	3240.7	405145	324921	N/A
86	10/22/2022	91.9	6615.3	5060.7	4476.3	404106	280472	N/A
87	10/22/2022	92.2	6490.8	4687.6	3630.4	406074	281948	N/A
88	10/23/2022	92.7	6175.5	4678.6	3093.4	400661	278293	N/A
	AVG=	92	8,098	4,881	3,761	35,953,496	26,471,661	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone	145	220	145	220
Silty Sandstone	220	270	220	270
Silty Shale	270	420	270	420
Shale	370	470	370	470
Silty Sandstone	420	470	420	470
Silty Shale	470	670	470	670
Silty Sandstone	670	770	670	770
Shaly Siltstone	770	870	770	870
Shaly Sandstone w/ tr coal	870	1,070	870	1,070
Sandstone	1,070	1,220	1,070	1,220
Shaly Siltstone w/ tr coal	1,220	1,270	1,220	1,270
Shaly Sandstone and siltstone	1,270	1,320	1,270	1,320
Shaly Sandstone w/ tr coal	1,320	1,420	1,320	1,420
Silty Sandstone w/ coal	1,420	1,470	1,420	1,470
Sandy Shale	1,470	1,754	1,470	1,818
Big Lime	1,784	2,181	1,818	2,286
Fifty Foot Sandstone	2,181	2,583	2,256	2,730
Gordon	2,583	2,722	2,700	2,883
Fifth Sandstone	2,722	2,914	2,853	3,094
Bayard	2,914	3,722	3,064	3,984
Speechley	3,722	3,966	3,954	4,242
Balltown	3,966	4,415	4,212	4,726
Bradford	4,415	4,762	4,696	5,100
Benson	4,762	4,975	5,070	5,332
Alexander	4,975	5,959	5,302	6,461
Sycamore	5,830	5,929	6,286	6,431
Middlesex	5,929	6,011	6,431	6,602
Burkett	6,011	6,036	6,602	6,682
Marcellus	6,036	NA	6,682	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

08/18/2023

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/1/2022
Job End Date:	10/23/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02776-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	CLUTTER UNIT 1H
Latitude:	39.49362000
Longitude:	-80.95612000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,113
Total Base Water Volume (gal):	27,616,593
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.49999	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.19608	

AS

WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Chemstream StimSTREAM FR 9800	Chemstream, Inc.	Friction Reducer					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Exceletrate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			

MC B-8614A	MultiChem	Biocide					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	13.24861	
			Hydrochloric acid	7647-01-0	30.00000	0.04932	
			Guar gum	9000-30-0	100.00000	0.03132	
			Complex Amine Compound	Proprietary	60.00000	0.02364	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01182	
			Glutaraldehyde	111-30-8	30.00000	0.00241	
			Surfactant	Proprietary	5.00000	0.00197	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00197	
			Butene, homopolymer	9003-29-6	25.00000	0.00183	
			Alkanes, C16-20-iso-	Proprietary	25.00000	0.00183	
			Ammonium persulfate	7727-54-0	100.00000	0.00068	
			Ethoxylated alcohols	Proprietary	5.00000	0.00041	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00040	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00039	
			Organic chloride compound	Proprietary	1.00000	0.00039	
			Methanol	67-56-1	100.00000	0.00031	
			Ethoxylated alcohols (C12-16)	68213-23-0	3.00000	0.00022	
			Oxylated phenolic resin	Proprietary	30.00000	0.00021	
			Modified thiourea polymer	Proprietary	30.00000	0.00009	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00009	

			Ethanol	64-17-5	1.00000	0.00008	
			Hexadecene	629-73-2	5.00000	0.00002	
			Propargyl alcohol	107-19-7	5.00000	0.00002	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Organic salt #1	Proprietary	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	
			Formaldehyde	50-00-0	0.01000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)