

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

API 47-095-02754 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Thin Air Field/Pool Name -----
Farm name Clara Suzanne Wallace & Rickie Wallace Well Number Capitol 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 4375372m Easting 517790m
Landing Point of Curve Northing 4375205.15m Easting 516951.11m
Bottom Hole Northing 4379963m Easting 515336m

Elevation (ft) 1200' 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 9/20/2021 Date drilling commenced 11/12/2021 Date drilling ceased 1/4/2022
Date completion activities began 3/26/2022 Date completion activities ceased 7/2/2022
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 328' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1660' 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

APPROVED

Reviewed by:

08/18/2023

J. [Signature]
5/24/23

API 47- 095 - 02754 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Capitol 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	28"	20"	125.5'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	483'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2695'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	24393'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	7484'		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	279 sx	15.6	1.18	329	0'	8 Hrs.
Surface	Class A	514 sx	15.6	1.20	617	0'	8 Hrs.
Coal							
Intermediate 1	Class A	903 sx	15.6	1.19	1075	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3896 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	4909	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 24393' MD, 6785' TVD (BHL), 6875' (Deepest Point Drilled) Loggers TD (ft) 24393' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5796'

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 

API 47- 095 - 02754 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Capitol Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6824' (TOP)	TVD	7697' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1743 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14656 mcfpd Oil 576 bpd NGL --- bpd Water 1402 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 Schlumberger US Land
Address 1080 US-33 City Weston State WV Zip 26452

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 3/2/2023

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

08/18/2023

Antero Resources Corporation Well No. Capitol Unit 1H

Ellsworth District - Tyler County	
07-07	Dortha Gump
07-07	Lillie Gump
07-09	Harold Yost
07-23	Harold Yost
07-25	BB Farm Investments LLC
07-26	William Hope
07-27	James Kleeh
11-14	Paul Thomas
11-15	BB Farm Investments LLC
11-16	James Kleeh
11-17	James Kleeh
11-18	Sarah Sine
11-18.1	Sarah Sine
11-19	Elzie Hall
11-20	Edward Quirk
11-21	Edward Quirk
11-22	Nile Harris
11-29	Edward Quirk
11-60	Michael Martin
12-01	James Kleeh
12-02	Gary Midcap
12-07	Coastal Forest Resources Co.
12-08	Shirley Carroll
12-09	Coastal Forest Resources Co.
12-10	Michael Martin
12-11	Rickie Wallace
12-12	Rockford Energy LLC
12-13	Eric Fisher
12-33	Richard Neff

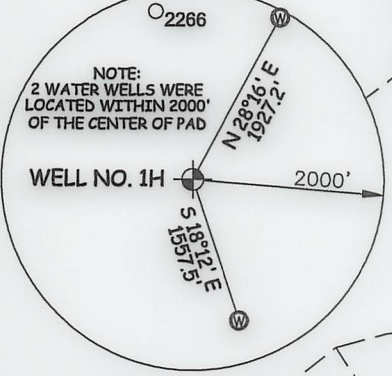
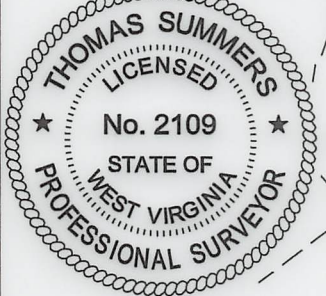
Green District - Wetzel County	
11-16	David Smith Et Al
11-21	Fluharty Family Trust
11-27	Raymond Young
11-28	Raymond Young
11-30	Fluharty Family Trust
11-35	Timothy Lancaster
11-36	Thomas Gaffney
11-38	Charles Gump
11-41	Charles Gump
15-01	Lillie Gump Et Al

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 376,949ft E: 1,635,240ft
 LAT: 39°31'39.85" LON: 80°47'35.44"
BOTTOM HOLE INFORMATION:
 N: 392,150ft E: 1,627,436ft
 LAT: 39°34'08.96" LON: 80°49'17.88"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRD NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 4,375,372m E: 517,790m
BOTTOM HOLE INFORMATION:
 N: 4,379,963m E: 515,336m

- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

WV NORTH ZONE
GRID NORTH



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 20-011WA
 DRAWING # CAPITOL1HAD
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 10/11/22
 OPERATOR'S WELL# CAPITOL UNIT #1H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 47 - 095 - 02754
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW STATE COUNTY PERMIT

LOCATION: ELEVATION 1,200' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER

SURFACE OWNER CLARA SUZANNE WALLACE & RICKIE WALLACE ACREAGE 60 ACRES +/-

OIL & GAS ROYALTY OWNER PHILLIP K. GEORGE; SAMUEL K. STONEKING JR; SHIBEN ESTATES INC.; LEASE ACREAGE 60 AC.±; 76.88 AC.±; 99.82 AC.±; 50 AC.±; 25.37 AC.±; 41.3 AC.±; 33.34 AC.±

NILE DEAN HARRIS; BRC APPALACHIAN MINERALS I LLC; BRC APPALACHIAN MINERALS I LLC; GARY A. SOLE; KATHY K. TEDROW; 132 AC.±; 106 AC.±; 55.25 AC.±; 52 AC.±; 5.68 AC.±

MERCER MINERALS LLC; MERCER MINERALS LLC; HAROLD S. YOST ET UX; BRC APPALACHIAN MINERALS I LLC; BLACKROCK ENTERPRISES, LLC; 71.07 AC.±; 70.4 AC.±; 93.5 AC.±; 51.75 AC.±

CHARLES E. GUMP ET UX; TIMOTHY L. LANCASTER; SUZANNE HILL; THOMAS W. LINS ET UX

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,785' TVD 24,393' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

08/18/2023

COUNTY NAME PERMIT

LATITUDE 39°32'30" 426'

LATITUDE 39°32'30"

8,448' TO BOTTOM HOLE

5,165' TO BOTTOM HOLE

5,074'

LONGITUDE 80°47'30"

Antero Resources Corporation Well No. Capitol Unit 1H

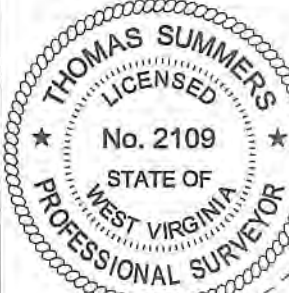
Table listing leaseholders and well numbers in Ellsworth District - Tyler County, including names like Dortha Gump, Lillie Gump, Harold Yost, etc.

Table listing leaseholders in Green District - Wetzel County, including names like David Smith Et Al, Fluharty Family Trust, etc.

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STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 20-011WA DRAWING # CAPITOL1HAD SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND: Surface Owner Boundary Lines +/- Interior Surface Tracts +/- Proposed Well Path As Drilled Well Path

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 10/11/22 OPERATOR'S WELL# CAPITOL UNIT #1H

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02754 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,200' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER

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NILE DEAN HARRIS; BRC APPALACHIAN MINERALS I LLC; BRC APPALACHIAN MINERALS I LLC; GARY A. SOLE; KATHY K. TEDROW; 99.82 AC +/- 50 AC +/- 25.37 AC +/- 41.3 AC +/- 33.34 AC +/- MERCER MINERALS LLC; MERCER MINERALS LLC; HAROLD S. YOST ET UX; BRC APPALACHIAN MINERALS I LLC; BLACKROCK ENTERPRISES, LLC; 132 AC +/- 106 AC +/- 55.25 AC +/- 52 AC +/- 5.68 AC +/- CHARLES E. GUMP ET UX; TIMOTHY L. LANCASTER; SUZANNE HILL; THOMAS W. LINS ET UX 71.07 AC +/- 70.4 AC +/- 93.5 AC +/- 51.75 AC +/-

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ___ AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,785' TVD 24,393' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	03/26/2022	24232.4	24189.4	60	Marcellus
2	03/28/2022	24150.1	23982.9	60	Marcellus
3	03/28/2022	23947.1	23779.9	60	Marcellus
4	03/29/2022	23744.1	23576.9	60	Marcellus
5	03/29/2022	23541.1	23374.0	60	Marcellus
6	03/30/2022	23338.1	23171.0	60	Marcellus
7	03/31/2022	23135.1	22968.0	60	Marcellus
8	04/01/2022	22932.2	22765.0	60	Marcellus
9	04/02/2022	22729.2	22562.0	60	Marcellus
10	04/02/2022	22526.2	22359.0	60	Marcellus
11	04/03/2022	22323.2	22156.0	60	Marcellus
12	04/03/2022	22120.2	21953.0	60	Marcellus
13	04/03/2022	21917.2	21750.1	60	Marcellus
14	04/04/2022	21714.2	21547.1	60	Marcellus
15	04/04/2022	21511.2	21344.1	60	Marcellus
16	04/04/2022	21308.3	21141.1	60	Marcellus
17	04/05/2022	21105.3	20938.1	60	Marcellus
18	04/05/2022	20902.3	20735.1	60	Marcellus
19	04/05/2022	20699.3	20532.1	60	Marcellus
20	04/07/2022	20496.3	20329.2	60	Marcellus
21	04/12/2022	20293.3	20126.2	60	Marcellus
22	04/12/2022	20090.3	19923.2	60	Marcellus
23	04/13/2022	19887.4	19720.2	60	Marcellus
24	04/13/2022	19684.4	19517.2	60	Marcellus
25	04/13/2022	19481.4	19314.2	60	Marcellus
26	04/14/2022	19278.4	19111.2	60	Marcellus
27	04/14/2022	19075.4	18908.3	60	Marcellus
28	04/14/2022	18872.4	18705.3	60	Marcellus
29	04/15/2022	18669.4	18502.3	60	Marcellus
30	04/15/2022	18466.4	18299.3	60	Marcellus
31	04/26/2022	18263.5	18096.3	60	Marcellus
32	04/26/2022	18060.5	17893.3	60	Marcellus
33	04/27/2022	17857.5	17690.3	60	Marcellus
34	04/27/2022	17654.5	17487.3	60	Marcellus
35	04/28/2022	17451.5	17284.4	60	Marcellus
36	04/29/2022	17248.5	17081.4	60	Marcellus
37	04/29/2022	17045.5	16878.4	60	Marcellus
38	04/29/2022	16842.6	16675.4	60	Marcellus
39	04/29/2022	16639.6	16472.4	60	Marcellus
40	04/30/2022	16436.6	16269.4	60	Marcellus
41	04/30/2022	16233.6	16066.4	60	Marcellus
42	04/30/2022	16030.6	15863.5	60	Marcellus
43	05/01/2022	15827.6	15660.5	60	Marcellus
44	05/01/2022	15624.6	15457.5	60	Marcellus
45	05/01/2022	15421.7	15254.5	60	Marcellus
46	05/02/2022	15218.7	15051.5	60	Marcellus
47	05/02/2022	15015.7	14848.5	60	Marcellus
48	05/02/2022	14812.7	14645.5	60	Marcellus
49	05/03/2022	14609.7	14442.6	60	Marcellus
50	05/04/2022	14406.7	14239.6	60	Marcellus
51	05/05/2022	14203.7	14036.6	60	Marcellus
52	05/05/2022	14000.7	13833.6	60	Marcellus
53	05/06/2022	13797.8	13630.6	60	Marcellus
54	05/07/2022	13594.8	13427.6	60	Marcellus
55	05/08/2022	13391.8	13224.6	60	Marcellus
56	05/09/2022	13188.8	13021.6	60	Marcellus
57	05/09/2022	12985.8	12818.7	60	Marcellus
58	05/10/2022	12782.8	12615.7	60	Marcellus
59	05/11/2022	12579.8	12412.7	60	Marcellus
60	05/12/2022	12376.9	12209.7	60	Marcellus
61	05/13/2022	12173.9	12006.7	60	Marcellus
62	05/13/2022	11970.9	11803.7	60	Marcellus
63	05/14/2022	11767.9	11600.7	60	Marcellus
64	05/14/2022	11564.9	11397.8	60	Marcellus
65	05/15/2022	11361.9	11194.8	60	Marcellus
66	05/15/2022	11158.9	10991.8	60	Marcellus
67	05/16/2022	10956.0	10788.8	60	Marcellus
68	05/17/2022	10753.0	10585.8	60	Marcellus
69	05/18/2022	10550.0	10382.8	60	Marcellus
70	05/18/2022	10347.0	10179.8	60	Marcellus
71	05/18/2022	10144.0	9976.9	60	Marcellus
72	05/19/2022	9941.0	9773.9	60	Marcellus
73	05/20/2022	9738.0	9570.9	60	Marcellus
74	05/20/2022	9535.0	9367.9	60	Marcellus
75	05/21/2022	9332.1	9164.9	60	Marcellus
76	05/22/2022	9129.1	8961.9	60	Marcellus
77	05/22/2022	8926.1	8758.9	60	Marcellus
78	05/22/2022	8723.1	8555.9	60	Marcellus
79	05/23/2022	8520.1	8353.0	60	Marcellus
80	05/23/2022	8317.1	8150.0	60	Marcellus
81	05/23/2022	8114.1	7947.0	60	Marcellus
82	05/24/2022	7911.2	7744.0	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	03/26/2022	68.8	9685	7575	3606	173700	278497	N/A
2	03/28/2022	76.5	9427	6270	3564	401210	341098	N/A
3	03/28/2022	79.6	9757	5920	3869	398980	327678	N/A
4	03/29/2022	80.1	9797	6251	4413	403240	421133	N/A
5	03/29/2022	83.1	9972	6395	4188	395775	367867	N/A
6	03/30/2022	76.4	9392	5938	4501	411100	386758	N/A
7	03/31/2022	81.3	9729	7108	3802	410825	312590	N/A
8	04/01/2022	60.6	7711	5890	3216	404475	565824	N/A
9	04/02/2022	81.7	9353	5990	3350	410280	316322	N/A
10	04/02/2022	81.4	9323	6117	3045	408105	323835	N/A
11	04/03/2022	82.2	9199	5684	3273	406960	315559	N/A
12	04/03/2022	76.2	8715	3641	3071	407680	319142	N/A
13	04/03/2022	73.1	8475	4809	2739	405966	301135	N/A
14	04/04/2022	76.7	8408	3924	3296	407499	327238	N/A
15	04/04/2022	74.9	8532	7742	2939	403610	324236	N/A
16	04/04/2022	76.5	9052	4705	4665	402884	304206	N/A
17	04/05/2022	78.5	9043	4490	2935	408100	309233	N/A
18	04/05/2022	81.1	9286	3568	3222	403945	304395	N/A
19	04/05/2022	75.7	8807	4589	2941	406884	302559	N/A
20	04/07/2022	26.4	7250	5087	7108	163350	298537	N/A
21	04/12/2022	75.9	8663	5295	4576	401325	413799	N/A
22	04/12/2022	79.8	8881	4869	4100	404730	299933	N/A
23	04/13/2022	78.3	8698	5322	4178	404114	297599	N/A
24	04/13/2022	80.0	8943	4583	4668	402490	297883	N/A
25	04/13/2022	77.1	8523	5114	7393	409050	297886	N/A
26	04/14/2022	77.5	8430	7518	4209	408094	302265	N/A
27	04/14/2022	77.8	8999	4996	3840	404040	298950	N/A
28	04/14/2022	78.7	9065	5266	3840	405950	299538	N/A
29	04/15/2022	77.9	8561	3138	3493	410270	299632	N/A
30	04/15/2022	78.9	8546	4934	3531	407071	297962	N/A
31	04/26/2022	78.0	8210	7718	3749	399640	354522	N/A
32	04/26/2022	78.0	8167	4175	3771	405400	292316	N/A
33	04/27/2022	79.0	8128	4755	4186	408860	327447	N/A
34	04/27/2022	81.7	8502	5437	4091	401115	290349	N/A
35	04/28/2022	76.2	8068	4899	4606	424060	501769	N/A
36	04/29/2022	79.6	7976	5112	4319	397680	391083	N/A
37	04/29/2022	76.5	8093	5230	4406	399644	333786	N/A
38	04/29/2022	74.6	7897	4314	4178.64	404327	313184	N/A
39	04/29/2022	77.6	7953	5315	4730	401746	298764	N/A
40	04/30/2022	80.1	8151	4971	4299	400540	298103	N/A
41	04/30/2022	77.0	7846	3860	4167	404800	300362	N/A
42	04/30/2022	77.5	8157	2344	4660	403142	314903	N/A
43	05/01/2022	78.8	8064	4895	3971	408250	313375	N/A
44	05/01/2022	72.7	8145	5436	3854	400770	314465	N/A
45	05/01/2022	79.0	8186	5172	4215	407930	316161	N/A
46	05/02/2022	79.5	8142	5110	4260	409975	320582	N/A
47	05/02/2022	78.7	8047	5327	3717	380935	294743	N/A
48	05/02/2022	78.5	7876	5049	4226	399680	300762	N/A
49	05/03/2022	79.5	7852	5553	3597	399745	303419	N/A
50	05/04/2022	79.5	7809	3418	3941	398495	300738	N/A
51	05/05/2022	78.8	7937	3959	3405	388545	349089	N/A
52	05/05/2022	79.2	7933	5114	4023	406865	302526	N/A
53	05/06/2022	79.2	7886	4354	4542	406505	348877	N/A
54	05/07/2022	79.0	7873	5742	3904	390300	443800	N/A
55	05/08/2022	79.7	7740	5688	4027	401170	329196	N/A
56	05/09/2022	79.9	7596	4570	4266	411075	308618	N/A
57	05/09/2022	80.1	7603	5239	4605	407690	300131	N/A
58	05/10/2022	74.8	7260	4105	4757.0	404475.0	424321.0	N/A
59	05/11/2022	79.2	7522	6684	4074.0	399485.0	290574.0	N/A
60	05/12/2022	78.9	7381	5549	4482.0	399440.0	289889.0	N/A
61	05/13/2022	76.3	7159	5778	4487.0	411435.0	404080.0	N/A
62	05/13/2022	79.5	7281	5577	4596.0	406515.0	303786.0	N/A
63	05/14/2022	79.5	7263	5182	4982.0	396265.0	299672.0	N/A
64	05/14/2022	79.7	7232	4147	4784.0	398415.0	296199.0	N/A
65	05/15/2022	79.1	7070	5486	4537.0	400890.0	304747.0	N/A
66	05/15/2022	76.8	7049	5707	4657.4	412505.0	301898.0	N/A
67	05/16/2022	79.7	7104	5120	4695.0	410465.0	300541.0	N/A
68	05/17/2022	78.9	7183	4933	4664.0	387205.0	352604.0	N/A
69	05/18/2022	78.8	6969	5663	4382.0	398115.0	299684.0	N/A
70	05/18/2022	79.9	7080	5997	4259.0	398325.0	284617.0	N/A
71	05/18/2022	79.9	7380	6014	5001.0	403440.0	287012.0	N/A
72	05/19/2022	79.8	6903	5576	4565.0	403470.0	283019.0	N/A
73	05/20/2022	78.8	7274	5652	4275.0	401155.0	330939.0	N/A
74	05/20/2022	75.5	7215	5986	3812.2	398080.0	312430.0	N/A
75	05/21/2022	80.0	7029	5710	4597.0	403170.0	285389.0	N/A
76	05/22/2022	77.9	7042	5743	4423.0	400540.0	282481.0	N/A
77	05/22/2022	80.1	6833	3674	4508.0	397935.0	279007.0	N/A
78	05/22/2022	77.9	6871	5942	4498.0	399080.0	284880.0	N/A
79	05/23/2022	77.5	6804	4521	4504.0	401740.0	295817.0	N/A
80	05/23/2022	77.3	6671	4484	3310.0	407465.0	286724.0	N/A
81	05/23/2022	77.5	6636	5165	4158.0	400020.0	277468.0	N/A
82	05/24/2022	80.3	6457	4431	3518.0	407070.0	282383.0	N/A
	AVERAGE	77	8,058	5,223	4,144	32,607,286	26,356,520	TOTAL

08/18/2023

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Shaly Siltstone, tr LS	91	275	91	275
Sandy Siltstone, Coal	275	335	275	335
Silty Sandstone	335	425	335	425
Shaly Siltstone, occ LS	425	635	425	635
Sandy Siltstone, occ LS	635	965	635	965
Shaly Siltstone, occ SS	965	1,025	965	1,025
Shaly Siltstone	1,025	1,435	1,025	1,435
Sandy Siltstone, occ Shale	1,435	1,525	1,435	1,525
Silty Sandstone, tr coal	1,525	1,615	1,525	1,615
Silty Sandstone, coal, tr shale	1,615	1,735	1,615	1,735
Silty Sandstone, occ shale	1,735	1,885	1,735	1,885
Shaly Sandstone, coal, occ slst	1,885	2,125	1,885	2,125
Silty Sandstone, coal, occ Shale	2,125	2,063	2,125	2,173
Big Lime	2,088	2,969	2,173	3,189
Fifty Foot Sandstone	2,969	3,102	3,164	3,338
Gordon	3,102	3,410	3,313	3,683
Fifth Sandstone	3,410	3,490	3,658	3,774
Bayard	3,490	4,177	3,749	4,541
Speechley	4,177	4,485	4,516	4,876
Balltown	4,485	4,932	4,851	5,363
Bradford	4,932	5,189	5,338	5,640
Benson	5,189	5,416	5,615	5,886
Alexander	5,416	6,659	5,861	7,333
Sycamore	6,520	6,634	7,157	7,308
Middlesex	6,634	6,733	7,308	7,474
Burkett	6,733	6,762	7,474	7,532
Tully	6,762	6,824	7,532	7,697
Marcellus	6,824	NA	7,697	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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/26/2022
Job End Date:	5/24/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02754-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	CAPITOL UNIT 1H
Latitude:	39.52774000
Longitude:	-80.79318000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,875
Total Base Water Volume (gal):	27,634,136
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	87.61829	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16579	

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MC DF-7250	MultiChem	Defoamer					
				Listed Below			
D-AIR 3000L	Halliburton	Defoamer					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Sand-Premium White-30/50	Halliburton	Proppant					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
WG-35 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
FDP-S1443-21	Halliburton	Corrosion Inhibitor					

				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				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	12.16317	
			Hydrochloric acid	7647-01-0	30.00000	0.03855	
			Guar gum	9000-30-0	100.00000	0.03250	
			Complex Amine Compound	Proprietary	60.00000	0.02910	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01455	
			Glutaraldehyde	111-30-8	30.00000	0.00245	
			Sobitan, mono-9- octadecenoate, (Z)	1338-43-8	5.00000	0.00242	
			Surfactant	Proprietary	5.00000	0.00242	
			Ammonium persulfate	7727-54-0	100.00000	0.00066	
			Ethoxylated alcohols	Proprietary	30.00000	0.00055	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00048	

			Organic chloride compound	Proprietary	1.00000	0.00048	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00041	
			Methanol	67-56-1	100.00000	0.00025	
			Oxylated phenolic resin	Proprietary	30.00000	0.00020	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00003	
			Didecyldimethylammonium chloride	68910-32-7	60.00000	0.00002	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001	
			Aldehyde	Proprietary	5.00000	0.00001	
			Alkenes	Proprietary	100.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Formaldehyde	50-00-0	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Polypropylene glycol	25322-69-4	30.00000	0.00000	
			Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	30.00000	0.00000	
			1-Octadecene	112-88-9	1.00000	0.00000	
			1-Hexadecene	629-73-2	1.00000	0.00000	
			Hexadecene	629-73-2	5.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			Sulfuric acid	7664-93-9	1.00000	0.00000	

			Alkylbenzene Derivatives	Proprietary	1.00000	0.00000	
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* 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)