

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

API 47-095-02756 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 Maroon 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 4375380m Easting 517796m
Landing Point of Curve Northing 4375385.72m Easting 517415.22m
Bottom Hole Northing 4379884m Easting 515893m

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 1/26/2022
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: [Signature]
09/15/2023
ST/30/23

API 47-095 - 02756 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Maroon 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"	479'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2612'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23004'	New	20#, P-110	N/A	Y
Tubing		2-3/8"	7063'		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	515 sx	15.6	1.20	618	0'	8 Hrs.
Coal							
Intermediate 1	Class A	636 sx	15.6	1.19	757	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class G	660 sx (Lead) 3832 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.41 (Lead), 1.26 (Tail)	4828	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23004' MD, 6809' TVD (BHL), 6876' (Deepest Point Drilled) Loggers TD (ft) 23004' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5601'

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

09/15/2023 

API 47- 095 - 02756 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Maroon Unit 1H

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.

09/15/2023 

API 47- 095 - 02756 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Maroon Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6823' (TOP)	TVD	7206' (TOP) MD
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1401 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14050 mcfpd Oil 566 bpd NGL --- bpd Water 1233 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 3/22/2023

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

09/15/2023

LATITUDE 39°32'30"

409'

LATITUDE 39°32'30"

6,620' TO BOTTOM HOLE

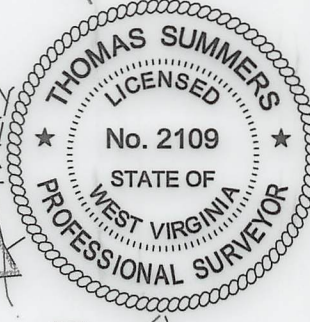
Antero Resources Corporation Well No. Maroon Unit 1H

Table listing well logs for Ellsworth District - Tyler County and Green District - Wetzel County, including well numbers and names like Lillie Gump, Harold Yost, William Hope, etc.

AS DRILLED DATA: WELL 1H TOP HOLE INFORMATION: N: 376,973ft E: 1,635,258ft LAT: 39°31'40.10" LON: 80°47'35.22" BOTTOM HOLE INFORMATION: N: 391,858ft E: 1,629,260ft 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 GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,375,380m E: 517,796m BOTTOM HOLE INFORMATION: N: 4,379,884m E: 515,893m

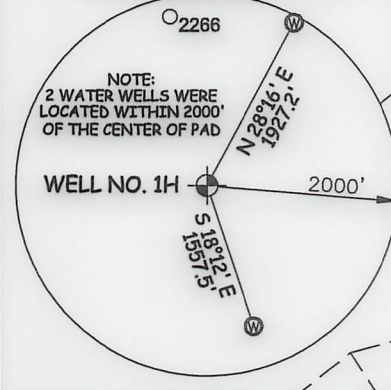
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WV NORTH ZONE GRID NORTH

LONGITUDE 80°47'30"

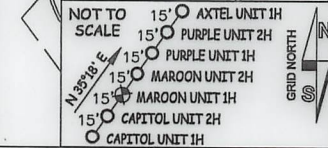
5,049'



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 # 20-012WA DRAWING # MAROON1HAD SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/- Interior Surface Tracts +/- Proposed Well Path As Drilled Well Path THOMAS SUMMERS P.S. 2109 DATE 10/11/22 OPERATOR'S WELL# MAROON UNIT #1H



(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,354,176ft E: 1,698,753ft POINT OF ENTRY INFORMATION: N: 14,354,043ft E: 1,697,619ft BOTTOM HOLE INFORMATION: N: 14,368,954ft E: 1,692,510ft

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02756 (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 SURFACE OWNER CLARA SUZANNE WALLACE & RICKIE WALLACE ACREAGE 60 ACRES +/- OIL & GAS ROYALTY OWNER PHILLIP K. GEORGE; SAMUEL K. STONEKING JR.; BRC APPALACHIAN MINERALS I LLC; LEASE ACREAGE 60 AC.±; 76.88 AC.±; 50 AC.±; BRC APPALACHIAN MINERALS I LLC; D. RALPH THACKER; MERCER MINERALS LLC; MURIEL SHERWOOD; WILLIAM D. HOPE 43 AC.±; 59 AC.±; 131.98 AC.±; 163.96 AC.±; 183.72 AC.±; HAROLD S. YOST ET UX; BRC APPALACHIAN MINERALS I LLC; SUZANNE HILL; BRC APPALACHIAN MINERALS I LLC; SHIBEN ESTATES INC.; SUZANNE HILL; 87 AC.±; 25 AC.±; 51.4 AC.±; 39 AC.±; 23.06 AC.±; 93.5 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 6,809' TVD 23,004' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME PERMIT

09/15/2023

LATITUDE 39°32'30" 409'

LATITUDE 39°32'30" 6,620' TO BOTTOM HOLE

5,429' TO BOTTOM HOLE
5,049'
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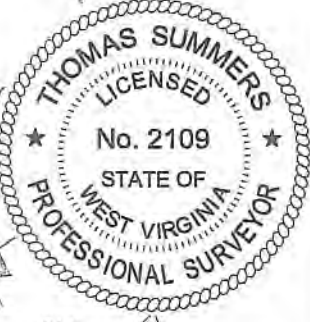
Antero Resources Corporation
Well No. Maroon Unit 1H

Ellsworth District - Tyler County	
07-07	Lillie Gump
07-08	Lillie Gump
07-09	Harold Yost
07-10	William Hope
07-11	William Hope
07-12	William Hope
07-14	William Hope
07-25	BB Farm Investments LLC
07-26	William Hope
07-27	James Kleeh
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
11-59	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
11-18	David Smith Et Al
11-19	David Smith Et Al
11-21	Fluharty Family Trust
11-22	Fluharty Family Trust
11-23	David Smith Et Al
11-24	David Smith Et Al
11-30	Fluharty Family Trust
11-31	Steven Beatty
11-31.1	Brian Stradley
11-32	David Smith Et Al
11-36	Thomas Gaffney
11-37	Sylvia Warrick
11-38	Charles Gump
11-39	Michael Smith
11-40	David Smith Et Al

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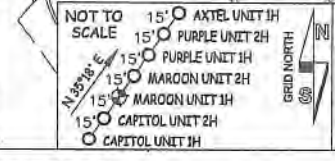
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STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

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

JOB # 20-012WA	LEGEND
DRAWING # MAROON1HAD	Surface Owner Boundary Lines +/-
SCALE 1" = 2000'	Interior Surface Tracts +/-
MINIMUM DEGREE OF ACCURACY SUBMETER	Proposed Well Path
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	As Drilled Well Path
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	THOMAS SUMMERS P.S. 2109
DATE 10/11/22	OPERATOR'S WELL# MAROON UNIT #1H



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QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER
SURFACE OWNER CLARA SUZANNE WALLACE & RICKIE WALLACE ACREAGE 60 ACRES +/- 09/15/2023
OIL & GAS ROYALTY OWNER PHILLIP K. GEORGE; SAMUEL K. STONEKING JR.; BRC APPALACHIAN MINERALS I LLC; LEASE ACREAGE 60 AC +/-; 76.88 AC +/-; 50 AC +/-;
BRC APPALACHIAN MINERALS I LLC; D. RALPH THACKER; MERCER MINERALS LLC; MURIEL SHERWOOD; WILLIAM D. HOPE 43 AC +/-; 59 AC +/-; 131.98 AC +/-; 163.96 AC +/-; 183.72 AC +/-
HAROLD S. YOST ET UX; BRC APPALACHIAN MINERALS I LLC; SUZANNE HILL; BRC APPALACHIAN MINERALS I LLC; SHIBEN ESTATES INC.; SUZANNE HILL; 87 AC +/-; 25 AC +/-; 51.4 AC +/-; 39 AC +/-; 23.06 AC +/-; 93.5 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
TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG
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ADDRESS 1815 WYNKOOP ST. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

COUNTY NAME

PERMIT

[Handwritten Signature]

API 47-095-02756 Farm Name Clara Suzanne Wallace & Rickie Wallace Well Number Maroon Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	03/26/2022	22882.9	22842.2	60	Marcellus
2	03/28/2022	22803.5	22639.0	60	Marcellus
3	03/29/2022	22603.7	22439.2	60	Marcellus
4	03/30/2022	22403.9	22239.3	60	Marcellus
5	03/30/2022	22204.0	22039.5	60	Marcellus
6	03/31/2022	22004.2	21839.7	60	Marcellus
7	04/01/2022	21804.4	21639.9	60	Marcellus
8	04/02/2022	21604.6	21440.1	60	Marcellus
9	04/02/2022	21404.8	21240.3	60	Marcellus
10	04/03/2022	21205.0	21040.4	60	Marcellus
11	04/03/2022	21005.1	20840.6	60	Marcellus
12	04/04/2022	20805.3	20640.8	60	Marcellus
13	04/04/2022	20605.5	20441.0	60	Marcellus
14	04/04/2022	20405.7	20241.2	60	Marcellus
15	04/05/2022	20205.9	20041.3	60	Marcellus
16	04/05/2022	20006.0	19841.5	60	Marcellus
17	04/05/2022	19806.2	19641.7	60	Marcellus
18	04/06/2022	19606.4	19441.9	60	Marcellus
19	04/07/2022	19406.6	19242.1	60	Marcellus
20	04/07/2022	19206.8	19042.3	60	Marcellus
21	04/08/2022	19007.0	18842.4	60	Marcellus
22	04/08/2022	18807.1	18642.6	60	Marcellus
23	04/09/2022	18607.3	18442.8	60	Marcellus
24	04/09/2022	18407.5	18243.0	60	Marcellus
25	04/09/2022	18207.7	18043.2	60	Marcellus
26	04/10/2022	18007.9	17843.4	60	Marcellus
27	04/10/2022	17808.0	17643.5	60	Marcellus
28	04/10/2022	17608.2	17443.7	60	Marcellus
29	04/11/2022	17408.4	17243.9	60	Marcellus
30	04/11/2022	17208.6	17044.1	60	Marcellus
31	04/11/2022	17008.8	16844.3	60	Marcellus
32	04/11/2022	16809.0	16644.4	60	Marcellus
33	04/12/2022	16609.1	16444.6	60	Marcellus
34	04/12/2022	16409.3	16244.8	60	Marcellus
35	04/12/2022	16209.5	16045.0	60	Marcellus
36	04/13/2022	16009.7	15845.2	60	Marcellus
37	04/13/2022	15809.9	15645.4	60	Marcellus
38	04/14/2022	15610.1	15445.5	60	Marcellus
39	04/14/2022	15410.2	15245.7	60	Marcellus
40	04/14/2022	15210.4	15045.9	60	Marcellus
41	04/14/2022	15010.6	14846.1	60	Marcellus
42	04/15/2022	14810.8	14646.3	60	Marcellus
43	04/26/2022	14611.0	14446.4	60	Marcellus
44	04/26/2022	14411.1	14246.6	60	Marcellus
45	05/02/2022	14211.3	14046.8	60	Marcellus
46	05/03/2022	14011.5	13847.0	60	Marcellus
47	05/04/2022	13811.7	13647.2	60	Marcellus
48	05/04/2022	13611.9	13447.4	60	Marcellus
49	05/06/2022	13412.1	13247.5	60	Marcellus
50	05/06/2022	13212.2	13047.7	60	Marcellus
51	05/08/2022	13012.4	12847.9	60	Marcellus
52	05/08/2022	12812.6	12648.1	60	Marcellus
53	05/09/2022	12612.8	12448.3	60	Marcellus
54	05/09/2022	12413.0	12248.4	60	Marcellus
55	05/10/2022	12213.1	12048.6	60	Marcellus
56	05/11/2022	12013.3	11848.8	60	Marcellus
57	05/12/2022	11813.5	11649.0	60	Marcellus
58	05/13/2022	11613.7	11449.2	60	Marcellus
59	05/13/2022	11413.9	11249.4	60	Marcellus
60	05/14/2022	11214.1	11049.5	60	Marcellus
61	05/14/2022	11014.2	10849.7	60	Marcellus
62	05/15/2022	10814.4	10649.9	60	Marcellus
63	05/16/2022	10614.6	10450.1	60	Marcellus
64	05/17/2022	10414.8	10250.3	60	Marcellus
65	05/17/2022	10215.0	10050.5	60	Marcellus
66	05/18/2022	10015.1	9850.6	60	Marcellus
67	05/18/2022	9815.3	9650.8	60	Marcellus
68	05/19/2022	9615.5	9451.0	60	Marcellus
69	05/19/2022	9415.7	9251.2	60	Marcellus
70	05/20/2022	9215.9	9051.4	60	Marcellus
71	05/21/2022	9016.1	8851.5	60	Marcellus
72	05/21/2022	8816.2	8651.7	60	Marcellus
73	05/22/2022	8616.4	8451.9	60	Marcellus
74	05/22/2022	8416.6	8252.1	60	Marcellus
75	05/23/2022	8216.8	8052.3	60	Marcellus
76	05/23/2022	8017.0	7852.5	60	Marcellus
77	05/23/2022	7817.2	7652.6	60	Marcellus
78	05/24/2022	7617.3	7452.8	60	Marcellus
79	05/24/2022	7417.5	7253.0	60	Marcellus

09/15/2023

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	75.6	9242	7868	2926	175290	238651	N/A
2	03/28/2022	83.5	9772	6235	4336	405845	390333	N/A
3	03/29/2022	79.7	9110	5685	4278	403775	327452	N/A
4	03/30/2022	86.7	9952	5065	3869	401585	330316	N/A
5	03/30/2022	74.7	8622	7598	3347.83	393835	479561	N/A
6	03/31/2022	74.1	8447.27	5351.68	3507.23	407585	427179	N/A
7	04/01/2022	73.0	8596	5913	3454	402759	311738	N/A
8	04/02/2022	77.9	8796	6065	3584	404985	318251	N/A
9	04/02/2022	76.9	8840	6092	2842	402516	320723	N/A
10	04/03/2022	76.8	8644	6041	3475	403174	306648	N/A
11	04/03/2022	68.6	8443	5485	3755	401440	320547	N/A
12	04/04/2022	79.9	8694	3980	3339	404980	303672	N/A
13	04/04/2022	73.1	9100	7068	3282	399368	316134	N/A
14	04/04/2022	79.5	9125	5165	2980	399700	303942	N/A
15	04/05/2022	78.8	9185	5046	4455	407430	301349	N/A
16	04/05/2022	79.9	9132	5191	4936	405425	306096	N/A
17	04/05/2022	76.8	8594	5277	3340	403465	297612	N/A
18	04/06/2022	79.1	8296	3758	3121	402016	296277	N/A
19	04/07/2022	78.9	8496	4178	3725	406650	296696	N/A
20	04/07/2022	79.5	8679	3240	4180	408090	305987	N/A
21	04/08/2022	81.3	8508	6011	3426	414350	305953	N/A
22	04/08/2022	82.3	8711	3464	3536	398735	294826	N/A
23	04/09/2022	77.8	8110	4109	3888	405824	307353	N/A
24	04/09/2022	79.6	8564	2576	4191	400025	289316	N/A
25	04/09/2022	78.6	8326	2753	4581	407140	298671	N/A
26	04/10/2022	79.4	8235	4742	4611	403854	305475	N/A
27	04/10/2022	80.4	8360	5533	3325	397455	290445	N/A
28	04/10/2022	82.0	8386	5142	3890	396500	294931	N/A
29	04/11/2022	78.8	8110	4634	4269	403974	296869	N/A
30	04/11/2022	80.7	8440	3973	3361	402990	296864	N/A
31	04/11/2022	79.6	8681	4488	3515	409090	302437	N/A
32	04/11/2022	78.7	8470	4473	3847	402166	294837	N/A
33	04/12/2022	77.3	8517	4937	3523	407970	294159	N/A
34	04/12/2022	81.1	8283	5691	3838	406300	296402	N/A
35	04/12/2022	79.5	8187	5134	3315	400128	303189	N/A
36	04/13/2022	77.8	7716	3956	3058	403640	291889	N/A
37	04/13/2022	81.8	806	3042	3921	402915	294195	N/A
38	04/14/2022	78.2	7880	7356	3389	406760	294869	N/A
39	04/14/2022	80.2	8244	3092	3138	398605	287548	N/A
40	04/14/2022	80.1	8094	6415	3530	398955	302276	N/A
41	04/14/2022	79.0	8143	3282	3748	408943	312875	N/A
42	04/15/2022	78.8	7673	3979	3451	397435	290137	N/A
43	04/26/2022	75.5	7390	6905	3369	402020	293477	N/A
44	04/26/2022	78.6	7638	7323	4204	405900	312777	N/A
45	05/02/2022	79.2	7889	5150	3397	403705	299702	N/A
46	05/03/2022	71.9	7709	3566	3638	404160	370640	N/A
47	05/04/2022	78.5	7491	4761	4072	403085	300866	N/A
48	05/04/2022	79.5	7683	5199	4167	397190	299410	N/A
49	05/06/2022	75.2	7253	4582	4092	401190	428281	N/A
50	05/06/2022	80.1	7744	4789	4004	405575	299529	N/A
51	05/08/2022	79.2	7535	4853	3539	408070	308872	N/A
52	05/08/2022	80.6	7377	5175	3786	406405	343119	N/A
53	05/09/2022	79.7	7323	5192	3812	408655	299082	N/A
54	05/09/2022	78.7	7227	5482	4051	392395	298560	N/A
55	05/10/2022	78.5	7341	4806	4183	404270	293563	N/A
56	05/11/2022	79.1	7213	5732	4212	398500	292826	N/A
57	05/12/2022	78.3	7328	5891	4628	398980	347914	N/A
58	05/13/2022	78.5	7024.0	4765.0	4625.0	403915.0	301245.0	N/A
59	05/13/2022	79.5	7128.0	4621.0	4530.0	398130.0	293744.0	N/A
60	05/14/2022	81.7	7011.0	6210.0	4704.0	399954.0	303985.0	N/A
61	05/14/2022	79.5	6879.0	5084.0	4628.0	403080.0	303913.0	N/A
62	05/15/2022	79.8	7073.0	5856.0	4319.0	404390.0	297324.0	N/A
63	05/16/2022	79.9	7030.0	5001.0	4074.0	413100.0	313162.0	N/A
64	05/17/2022	79.0	6734.0	4381.0	4546.0	413880.0	311134.0	N/A
65	05/17/2022	79.6	6973.0	5767.0	4756.0	404265.0	299157.0	N/A
66	05/18/2022	79.5	6921.0	5304.0	4691.0	402734.0	288292.0	N/A
67	05/18/2022	79.2	6753.0	4560.0	4360.0	396292.0	268325.0	N/A
68	05/19/2022	80.1	6721.0	3965.0	3904.0	401515.0	310698.0	N/A
69	05/19/2022	79.6	6986.0	2681.0	3999.0	402419.0	307791.0	N/A
70	05/20/2022	79.6	6718.0	3926.0	4022.0	400430.0	286544.0	N/A
71	05/21/2022	78.4	6662.0	3854.0	4188.0	406795.0	296581.0	N/A
72	05/21/2022	79.7	6686.0	4938.0	4129.0	401290.0	283366.0	N/A
73	05/22/2022	79.9	6882.0	3525.0	3975.0	406185.0	290205.0	N/A
74	05/22/2022	79.8	6755.0	5071.0	3857.0	398365.0	286470.0	N/A
75	05/23/2022	77.8	6687.0	3175.0	4163.0	404105.0	288192.0	N/A
76	05/23/2022	79.5	6842.0	2912.0	3448.0	400714.0	294772.0	N/A
77	05/23/2022	77.3	6537.0	5390.0	3838.0	400790.0	281310.0	N/A
78	05/24/2022	77.3	6595.0	5402.0	4402.0	396505.0	276532.0	N/A
79	05/24/2022	79.7	6663.0	2999.0	4532.0	395235.0	266654.0	N/A
	AVERAGE	79	7,780	4,910	3,885	31,607,855	24,282,694	TOTAL

09/15/2023

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	2,083	2,125	2,083
Big Lime	2,108	2,969	2,083	2,971
Fifty Foot Sandstone	2,969	3,099	2,946	3,103
Gordon	3,099	3,398	3,078	3,412
Fifth Sandstone	3,398	3,482	3,387	3,501
Bayard	3,482	4,156	3,476	4,209
Speechley	4,156	4,477	4,184	4,545
Balltown	4,477	4,921	4,520	5,011
Bradford	4,921	5,184	4,986	5,285
Benson	5,184	5,400	5,260	5,510
Alexander	5,400	6,655	5,485	6,873
Sycamore	6,515	6,630	6,705	6,848
Middlesex	6,630	6,729	6,848	6,995
Burkett	6,729	6,759	6,995	7,049
Tully	6,759	6,823	7,049	7,206
Marcellus	6,823	NA	7,206	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:	47-095-02756-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	MAROON UNIT 1H
Latitude:	39.52781000
Longitude:	-80.79312000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,876
Total Base Water Volume (gal):	25,417,050
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	87.05134	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16467	

MC DF-7250	MultiChem	Defoamer					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
WG-35 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
FDP-S1443-21	Halliburton	Corrosion Inhibitor					
				Listed Below			
Sand-Premium White-30/50	Halliburton	Proppant					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			

HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				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	12.73587	
			Hydrochloric acid	7647-01-0	30.00000	0.03887	
			Guar gum	9000-30-0	100.00000	0.02939	
			Complex Amine Compound	Proprietary	60.00000	0.02686	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01343	
			Glutaraldehyde	111-30-8	30.00000	0.00247	
			Surfactant	Proprietary	5.00000	0.00224	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00224	
			Ammonium persulfate	7727-54-0	100.00000	0.00063	
			Ethoxylated alcohols	Proprietary	30.00000	0.00051	
			Organic chloride compound	Proprietary	1.00000	0.00045	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00045	

			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	0.00019	
			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	0.00002	
			Aldehyde	Proprietary	5.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00001	
			Formaldehyde	50-00-0	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	
			Organic salt #1	Proprietary	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			1-Hexadecene	629-73-2	1.00000	0.00000	
			1-Octadecene	112-88-9	1.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			Hexadecene	629-73-2	5.00000	0.00000	
			Sulfuric acid	7664-93-9	1.00000	0.00000	
			Alkylbenzene Derivatives	Proprietary	1.00000	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)