

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

API 47-095-02865 County Tyler District Lincoln
Quad Paden City Pad Name Dry Run Pad Field/Pool Name ----
Farm name David E. Bowyer Well Number Ripple Unit 2H
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 4378026.855m Easting 507589.544m
Landing Point of Curve Northing 4353628.72m Easting 539436.28m
Bottom Hole Northing 4382645.494m Easting 506510.079m

Elevation (ft) 1007' 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 4/24/2023 Date drilling commenced 5/10/2023 Date drilling ceased 8/10/2023
Date completion activities began 11/1/2023 Date completion activities ceased 12/4/2023
Verbal plugging (Y/N) N/A Date permission granted N/A

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Office of Oil and Gas
Granted by _____

FEB 14 2024
Department of Environmental Protection

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug
Freshwater depth(s) ft 382' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1653' 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]
06/28/2024

API 47- 095 - 02865 Farm name David E. Bowyer Well number Ripple Unit 2H

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	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	620'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3281'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22672'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	6575'		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	209 sx	15.6	1.18	247	0'	8 Hrs.
Surface	Class A	552 sx	15.6	1.20	662	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1118 sx	15.6	1.20	1342	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3882 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	4891	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 25441' MD, 6237' TVD (BHL), 6285' (Deepest Point Drilled) Loggers TD (ft) 25441' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5733'

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

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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

06/28/2024

API 47- 095 - 02865 Farm name David E. Bowyer Well number Ripple Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
	6216' (TOP) TVD	6724' (TOP) MD
Marcellus		

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1560 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 5650 mcfpd Oil 299 bpd NGL --- bpd Water 409 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

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Office Of Oil and Gas
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WV Department of
Environmental Protection

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 2/7/2024

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

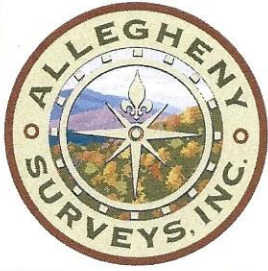
06/28/2024

Antero Resources
Well No. Ripple 2H
As-Drilled
 Antero Resources Corporation

PAGE 1 of 2

10,387' to Top Hole

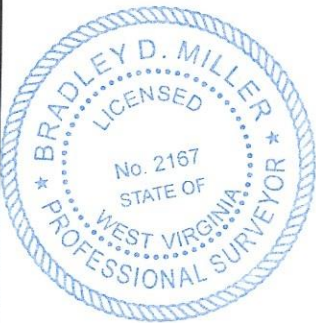
2,167' to Bottom Hole
TOP HOLE LATITUDE 39 - 35 - 00
BTM HOLE LATITUDE 39 - 37 - 30



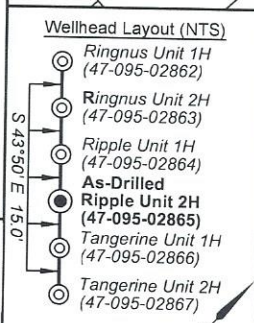
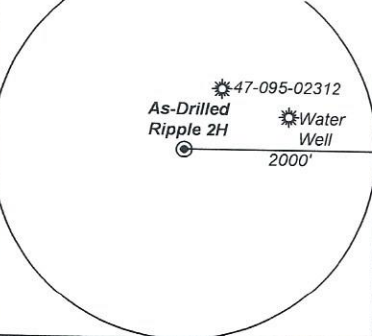
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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
 Bradley D. Miller, P.S. 2167



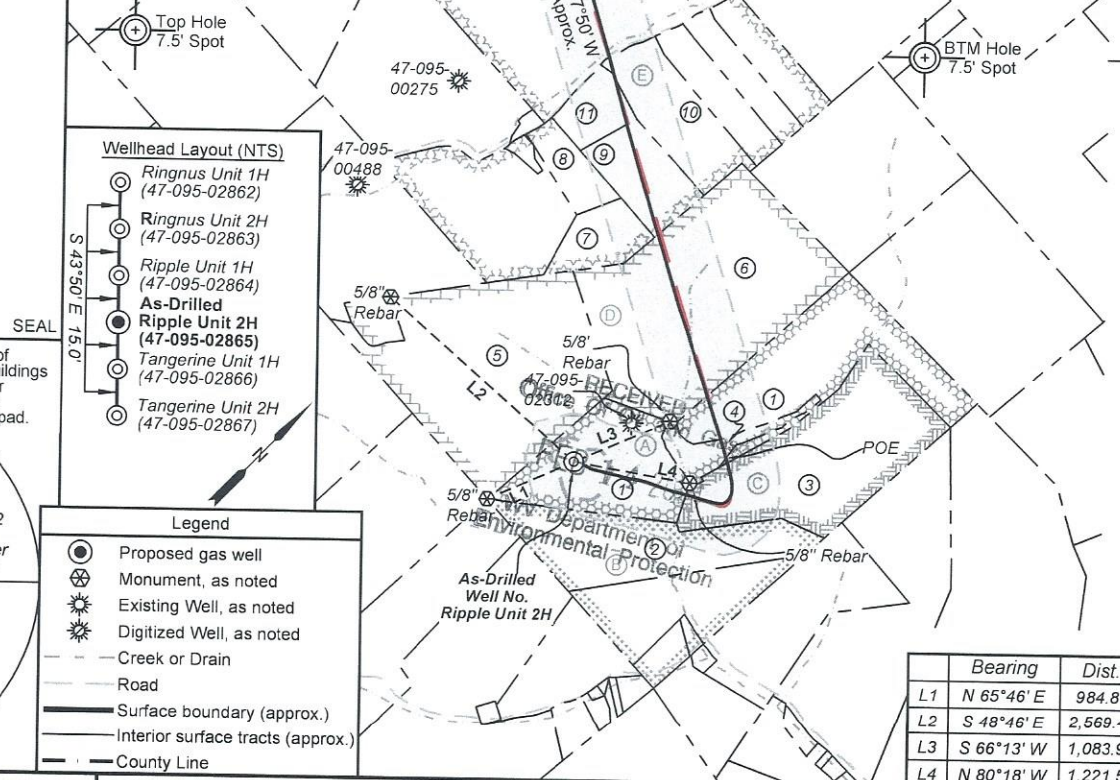
Note: 1 water well were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



- 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.)
 - County Line

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Ripple Unit 2H Top Hole coordinates are
 N: 386,220.02' Latitude: 39°33'06.52"
 E: 1,601,911.53' Longitude: 80°54'42.61"
 Bottom Hole coordinates are
 N: 401,435.16' Latitude: 39°35'36.37"
 E: 1,598,621.91' Longitude: 80°55'27.68"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,378,026.855m N: 4,382,645.494m
 E: 507,589.544m E: 506,510.079m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Ripple 2H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 386,284.53'
 E: 1,603,494.37'
 Latitude: 39°33'07.40"
 Longitude: 80°54'22.41"
 UTM Zone 17, NAD 1983
 N: 4,378,054.572m
 E: 508,071.436m



	Bearing	Dist.
L1	N 65°46' E	984.8'
L2	S 48°46' E	2,569.4'
L3	S 66°13' W	1,083.9'
L4	N 80°18' W	1,221.5'

FILE NO: 15-54-L-23
 DRAWING NO: Ripple 2H 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: January 17 20 24
 OPERATOR'S WELL NO. Ripple 2H
 API WELL NO
 47 - 95 - 02865
 STATE COUNTY PERMIT

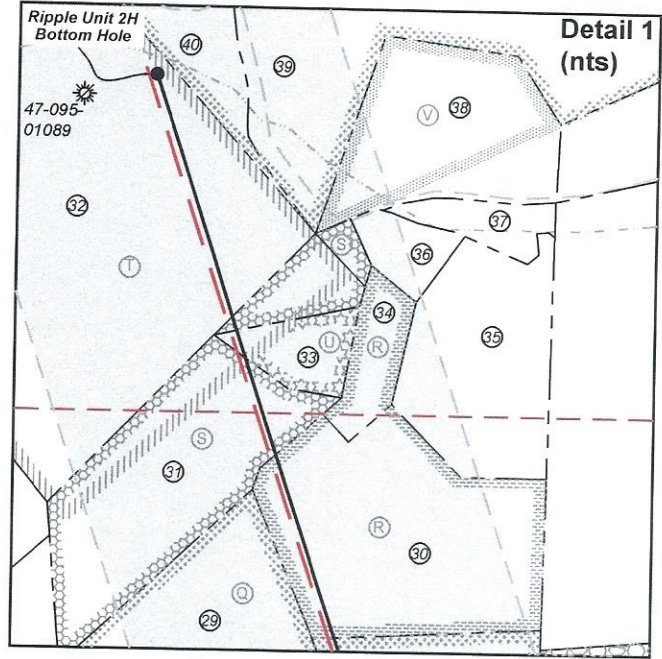
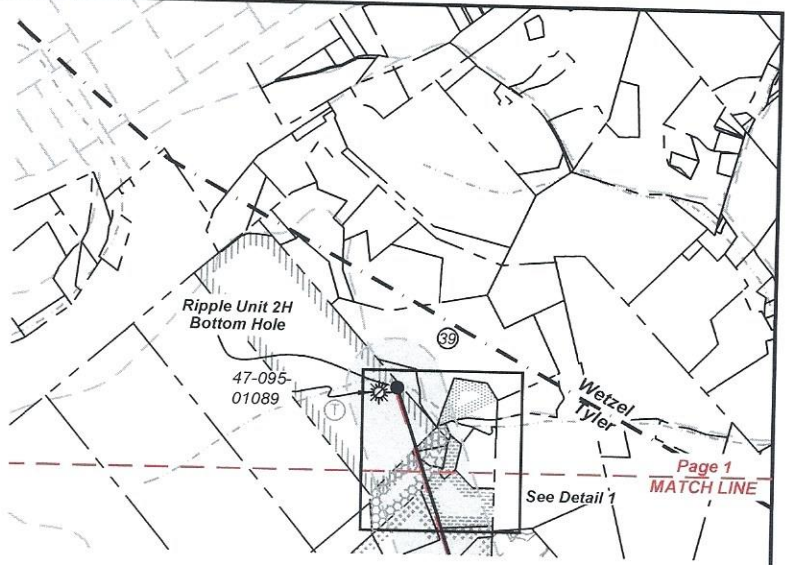
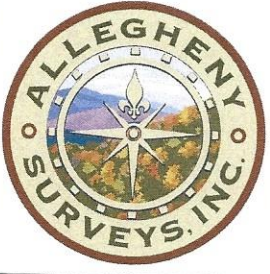
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,007' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
 DISTRICT: Lincoln COUNTY: Tyler
 SURFACE OWNER: David E. Bowyer ACREAGE: 85.785
 ROYALTY OWNER: Timothy L. VanCamp; Bounty Minerals, LLC; BRC Appalachian Minerals I, LLC; J. Maurice Carlisle; LEASE NO: ACREAGE: 7.85; 7.3; 1.12; 65

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: 22,672' 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

TOP HOLE LONGITUDE 80 - 53 - 30
 BTM HOLE LONGITUDE 80 - 55 - 00
 11,482' to Top Hole
 11,497' to Bottom Hole



Leases	
A	Timothy L. VanCamp
B	Tamara M. Reynolds
C	Bounty Minerals, LLC
D	BRC Appalachian Minerals I LLC
E	J. Maurice Carlisle
F	Jane Ann Miller
G	John Paul Buck, et ux
H	George Heslep, et ux
I	Larry Dale Ancell, et ux
J	Drilling Appalachian Corporation
K	Waco Oil & Gas Co Inc.
L	Heritage Resources - Marcellus Minerals, LLC
M	George L. Moore, et ux
N	Ridgetop Royalties, LLC
O	Terry D. Wade, et ux
P	Heritage Resources - Marcellus Minerals, LLC
Q	Heritage Resources - Marcellus Minerals, LLC
R	Rex S. & Tracy Goddard
S	Shirley J. Billiter
T	Lonnie L. & Betty Lou Billiter
U	Douglas C. Harris, et ux
V	Betty Lou Howell

ID	TM-Par	Owner	Bk/Pg	Acres
1	9-19	David E. Bowyer	OR16/22	85.79
2	9-31.1	David E. Bowyer	OR16/22	38.04
3	9-21	Thomas K. Brotherton	23/310	64.00
4	9-20	Jason & Jessica Greathouse & Laken Curtis	OR59/513	7.38
5	9-17	Ethan A. & Marsha L. Riffle	323/649	90.04
6	9-18	Michael V. & Debra K. Smith	331/94	100.00
7	9-6	Larry G. & Joyce Ann Kaprich	375/254	12.11
8	9-6.2	Larry G. & Joyce Ann Kaprich	375/254	9.47
9	9-7.3	Larry G. & Joyce Ann Kaprich	375/254	17.23
10	9-8	Tammy Williams & Alf Riggs	372/134	25.24
11	9-7	Ralph D. Thacker & Maurice J. Calisle Jr.	OR177/619	10.25
12	9-7.1	Carl L. & Donna M Yoho	320/456	117.00
13	5-15	Kenneth W. & Susan D. Paden	215/390	21.32
14	5-19	John P. & Susan Buck	337/634	159.21
15	5-21	Shelva Buck	645/516	0.79
16	5-24.5	Jessica D. & Jonathan L. Moffit	565/511	11.19
17	5-29.2	Larry Dale & Kay Lynn Ancell	273/511	11.00
18	5-8	Franklin & Nancy Broughman	338/292	33.17
19	5-34	Timothy J. & Miranda Haynes	OR151/407	74.50
20	5-30	Timothy J. & Miranda Haynes	OR151/407	13.25
21	5-31	Mary Baker Stewart	212/34	1.01
22	5-33	George L. & Marie Moore	204/45	20.00
23	5-33.1	Judy K. Chichick	437/566	50.00
24	5-40	Jason Phillips	OR164/108	0.52
25	5-39	Jason Phillips	OR164/108	16.29
26	2-15	Karl F. Evans, et al	576/763	45.80
27	5-41	Cheryl W. Cowen, et al	166/56	36.00
28	2-??	Shawn D. & Tara A. Cross	612/75	---
29	2-12	Shawn D. & Tara A. Cross	612/75	6.00
30	2-10	Shawn D. & Tara A. Cross	612/75	6.50
31	2-14	Shirley Billiter	215/573	7.13
32	2-2	Betty Lou Billiter Irrevocable Trust	375/476	65.00
33	2-14.1	Shirley J. Billiter	434/262	1.12
34	2-13	Shawn D. & Tara A. Cross	612/75	1.35
35	2-9	Shawn D. & Tara A. Cross	612/75	4.01
36	2-7	Shawn D. & Tara A. Cross	612/75	0.92
37	2-17	Todd Hadley & Shawna Moore	OR19/499	0.93
38	2-8	Robert W. & Jean A. Cross	483/582	3.85
39	2-4	Timothy J. & Miranda Haynes	575/824	37.50
40	2-6	Betty Lou Billiter Irrevocable Trust	368/553	2.00

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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	11/1/2023	22545.0	22500.0	36	Marcellus
2	11/2/2023	22461.4	22295.4	36	Marcellus
3	11/2/2023	22259.8	22093.8	36	Marcellus
4	11/2/2023	22058.2	21892.2	36	Marcellus
5	11/3/2023	21856.6	21690.6	36	Marcellus
6	11/3/2023	21655.0	21489.0	36	Marcellus
7	11/4/2023	21453.4	21287.4	36	Marcellus
8	11/4/2023	21251.8	21085.8	36	Marcellus
9	11/5/2023	21050.2	20884.2	36	Marcellus
10	11/5/2023	20848.6	20682.6	36	Marcellus
11	11/5/2023	20647.0	20481.0	36	Marcellus
12	11/5/2023	20445.4	20279.4	36	Marcellus
13	11/6/2023	20243.8	20077.8	36	Marcellus
14	11/7/2023	20042.2	19876.2	36	Marcellus
15	11/7/2023	19840.6	19674.6	36	Marcellus
16	11/7/2023	19639.0	19473.0	36	Marcellus
17	11/8/2023	19437.4	19271.4	36	Marcellus
18	11/8/2023	19235.8	19069.8	36	Marcellus
19	11/8/2023	19034.2	18868.2	36	Marcellus
20	11/9/2023	18832.6	18666.6	36	Marcellus
21	11/9/2023	18631.0	18464.9	36	Marcellus
22	11/9/2023	18429.3	18263.3	36	Marcellus
23	11/10/2023	18227.7	18061.7	36	Marcellus
24	11/10/2023	18026.1	17860.1	36	Marcellus
25	11/11/2023	17824.5	17658.5	36	Marcellus
26	11/11/2023	17622.9	17456.9	36	Marcellus
27	11/11/2023	17421.3	17255.3	36	Marcellus
28	11/12/2023	17219.7	17053.7	36	Marcellus
29	11/12/2023	17018.1	16852.1	36	Marcellus
30	11/12/2023	16816.5	16650.5	36	Marcellus
31	11/12/2023	16614.9	16448.9	36	Marcellus
32	11/13/2023	16413.3	16247.3	36	Marcellus
33	11/13/2023	16211.7	16045.7	36	Marcellus
34	11/13/2023	16010.1	15844.1	36	Marcellus
35	11/13/2023	15808.5	15642.5	36	Marcellus
36	11/14/2023	15606.9	15440.9	36	Marcellus
37	11/14/2023	15405.3	15239.3	36	Marcellus
38	11/14/2023	15203.7	15037.7	36	Marcellus
39	11/14/2023	15002.1	14836.1	36	Marcellus
40	11/15/2023	14800.5	14634.5	36	Marcellus
41	11/15/2023	14598.9	14432.9	36	Marcellus
42	11/15/2023	14397.3	14231.3	36	Marcellus
43	11/16/2023	14195.7	14029.7	36	Marcellus
44	11/16/2023	13994.1	13828.1	36	Marcellus
45	11/16/2023	13792.5	13626.5	36	Marcellus
46	11/16/2023	13590.9	13424.9	36	Marcellus
47	11/17/2023	13389.3	13223.3	36	Marcellus
48	11/17/2023	13187.7	13021.7	36	Marcellus
49	11/17/2023	12986.1	12820.1	36	Marcellus
50	11/17/2023	12784.5	12618.5	36	Marcellus
51	11/18/2023	12582.9	12416.9	36	Marcellus
52	11/18/2023	12381.3	12215.3	36	Marcellus
53	11/18/2023	12179.7	12013.7	36	Marcellus
54	11/18/2023	11978.1	11812.1	36	Marcellus
55	11/19/2023	11776.5	11610.5	36	Marcellus
56	11/19/2023	11574.9	11408.9	36	Marcellus
57	11/19/2023	11373.3	11207.3	36	Marcellus
58	11/19/2023	11171.7	11005.7	36	Marcellus
59	11/20/2023	10970.1	10804.1	36	Marcellus
60	11/20/2023	10768.5	10602.4	36	Marcellus
61	11/20/2023	10566.8	10400.8	36	Marcellus
62	11/20/2023	10365.2	10199.2	36	Marcellus
63	11/20/2023	10163.6	9997.6	36	Marcellus
64	11/21/2023	9962.0	9796.0	36	Marcellus
65	11/21/2023	9760.4	9594.4	36	Marcellus
66	11/21/2023	9558.8	9392.8	36	Marcellus
67	11/22/2023	9357.2	9191.2	36	Marcellus
68	11/22/2023	9155.6	8989.6	36	Marcellus
69	11/22/2023	8954.0	8788.0	36	Marcellus
70	11/22/2023	8752.4	8586.4	36	Marcellus
71	11/23/2023	8550.8	8384.8	36	Marcellus
72	11/23/2023	8349.2	8183.2	36	Marcellus
73	11/23/2023	8147.6	7981.6	36	Marcellus
74	11/23/2023	7946.0	7780.0	36	Marcellus
75	11/24/2023	7744.4	7578.4	36	Marcellus
76	11/24/2023	7542.8	7376.8	36	Marcellus
77	11/24/2023	7341.2	7175.2	36	Marcellus
78	11/24/2023	7139.6	6973.6	36	Marcellus
79	11/24/2023	6938.0	6772.0	36	Marcellus

06/28/2024

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	11/1/2023	73.6	9037.1	8860.38	3535.0	164360	4782.6	N/A
2	11/2/2023	86.2	9884.6	3686	4063.2	414100	7339.3	N/A
3	11/2/2023	86.6	10198.1	5745.85	4005.0	409860	7161.4	N/A
4	11/2/2023	84.1	10264.3	5816.59	3398.9	414360	7071.7	N/A
5	11/3/2023	83.6	10384.9	5388.75	3637.4	415280	6936.0	N/A
6	11/3/2023	85.9	10319.2	5709.81	3604.0	419580	7741.1	N/A
7	11/4/2023	75.3	10199.6	5331.97	3380.0	422934	10422.6	N/A
8	11/4/2023	67.0	10229.6	4994.64	3135.4	416960	6840.6	N/A
9	11/5/2023	81.0	9945.3	5555.02	3558.4	409560	7438.9	N/A
10	11/5/2023	88.4	9757.3	5346.14	4574.0	418840	8347.4	N/A
11	11/5/2023	87.9	9807.6	5261.67	3693.0	411320	7863.1	N/A
12	11/5/2023	85.8	9585.3	5281.74	3860.8	415220	7778.1	N/A
13	11/6/2023	89.1	9554.5	4945.35	3729.7	420160	7612.8	N/A
14	11/7/2023	88.5	9706.2	5291.52	3727.1	413680	7671.8	N/A
15	11/7/2023	93.6	9988.2	5459.44	4190.0	420740	7658.9	N/A
16	11/7/2023	88.5	9654.6	5338.81	3501.3	410020	7252.0	N/A
17	11/8/2023	88.3	10109.6	5063.55	3724.3	409580	7085.1	N/A
18	11/8/2023	94.4	10397.5	4738.28	4008.2	413580	7275.0	N/A
19	11/8/2023	86.0	9794.4	5307.8	3971.0	411920	7416.5	N/A
20	11/9/2023	90.9	9813.4	5599.72	3480.2	414060	7733.2	N/A
21	11/9/2023	94.9	9766.8	5009.46	3891.0	417600	7192.0	N/A
22	11/9/2023	95.5	10068.2	5628.87	3463.4	423000	7356.1	N/A
23	11/10/2023	95.8	9570.0	5043.59	3753.3	417880	7249.8	N/A
24	11/10/2023	87.1	8810.6	5558.69	3886.1	412320	7740.0	N/A
25	11/11/2023	92.0	9541.6	5552.53	3838.0	419260	7780.3	N/A
26	11/11/2023	95.6	9662.6	4854.16	3802.4	416740	7611.6	N/A
27	11/11/2023	91.7	9311.0	5013.52	3820.1	422540	7809.9	N/A
28	11/12/2023	92.1	9401.0	5171.81	3839.8	419920	7692.2	N/A
29	11/12/2023	95.8	9427.9	5472.45	3790.5	421460	7692.7	N/A
30	11/12/2023	95.7	9406.9	5550.56	3636.8	419720	7749.2	N/A
31	11/12/2023	93.4	9385.6	5479.31	3637.1	417760	7584.0	N/A
32	11/13/2023	91.4	9165.1	5288.62	3692.8	419100	7734.1	N/A
33	11/13/2023	94.9	9254.9	5509.8	3846.7	417340	7365.2	N/A
34	11/13/2023	95.0	9248.8	5176.93	3474.1	417060	7603.6	N/A
35	11/13/2023	92.7	9496.4	5297.22	3754.4	425420	7821.9	N/A
36	11/14/2023	93.6	9322.2	5192.55	3511.9	416660	7820.7	N/A
37	11/14/2023	95.4	9374.4	5119.43	3566.0	415800	7368.7	N/A
38	11/14/2023	92.7	8892.9	5269.2	3620.4	419860	7834.3	N/A
39	11/14/2023	94.6	9107.9	5065.23	3545.8	415740	7981.5	N/A
40	11/15/2023	93.3	9034.8	5266.95	3620.9	421020	7748.7	N/A
41	11/15/2023	95.6	9061.1	5268.79	3397.8	414100	7476.5	N/A
42	11/15/2023	95.5	9024.6	5138.5	3380.8	422920	7792.4	N/A
43	11/16/2023	95.1	8906.3	5477.01	3458.0	413760	7636.4	N/A
44	11/16/2023	94.3	8797.5	5482.87	3506.5	426208	7525.9	N/A
45	11/16/2023	95.2	8554.7	5749.67	3503.6	422380	7766.1	N/A
46	11/16/2023	95.2	8943.4	5608.58	3417.6	420140	7404.5	N/A
47	11/17/2023	96.0	8991.5	5779.95	3331.8	411860	7669.9	N/A
48	11/17/2023	95.9	8934.0	5632.61	3176.5	420280	7555.0	N/A
49	11/17/2023	95.1	8554.1	5538.14	3507.6	411680	7223.0	N/A
50	11/17/2023	94.9	8479.6	5402.14	3330.2	421580	7608.8	N/A
51	11/18/2023	95.0	8522.1	5791.27	3346.2	415780	7485.3	N/A
52	11/18/2023	93.9	8426.2	5480.66	3627.6	418380	7051.8	N/A
53	11/18/2023	94.3	8478.2	5510.97	3462.9	416980	6862.9	N/A
54	11/18/2023	95.7	8428.4	5684.99	3690.4	418180	7239.9	N/A
55	11/19/2023	96.3	8434.7	5297.77	3649.9	416080	7032.8	N/A
56	11/19/2023	95.2	8381.4	5099.85	3677.1	412100	6756.8	N/A
57	11/19/2023	96.1	8584.6	5447.42	3637.7	420220	7218.0	N/A
58	11/19/2023	95.0	8338.4	5626.3	3714.5	407440.0	7239.8	N/A
59	11/20/2023	95.4	8366.1	5524.6	3655.7	411600.0	7271.9	N/A
60	11/20/2023	95.1	8040.3	5288.5	3891.0	419200.0	6920.8	N/A
61	11/20/2023	96.4	7792.5	5111.1	3929.5	410660.0	6938.6	N/A
62	11/20/2023	97.0	8057.1	5317.6	3665.0	409500.0	6797.9	N/A
63	11/20/2023	96.2	7871.3	5760.4	3540.1	419960.0	7319.7	N/A
64	11/21/2023	95.6	8366.6	5286.4	3929.0	417320.0	6754.8	N/A
65	11/21/2023	95.4	8149.0	4959.3	3735.9	416020.0	6659.6	N/A
66	11/21/2023	95.0	7888.4	4549.2	3799.8	414200.0	7011.1	N/A
67	11/22/2023	95.5	7820.2	4952.3	3618.3	419280.0	6985.5	N/A
68	11/22/2023	95.8	8102.6	5130.4	3717.4	415580.0	6864.2	N/A
69	11/22/2023	95.0	7605.6	5263.6	3620.9	414580.0	6900.3	N/A
70	11/22/2023	94.0	7819.4	5150.4	3686.5	416100.0	6924.6	N/A
71	11/23/2023	94.3	7543.9	5094.6	3641.0	416560.0	6932.2	N/A
72	11/23/2023	95.7	7521.5	4937.2	3735.8	417200.0	6958.9	N/A
73	11/23/2023	84.9	6965.4	5151.7	3871.7	409380.0	7633.7	N/A
74	11/23/2023	95.2	7342.1	5122.7	3616.3	409860.0	7042.8	N/A
75	11/24/2023	95.2	7368.0	4913.9	3733.6	413200.0	6844.9	N/A
76	11/24/2023	94.9	7423.3	4900.8	3535.6	409680.0	6562.6	N/A
77	11/24/2023	96.1	7399.4	4861.1	3762.4	413620.0	6492.5	N/A
78	11/24/2023	96.3	7222.7	4969.3	3691.5	417800.0	6842.2	N/A
79	11/24/2023	96.5	6799.5	5031.8	3575.2	414980.0	6958.1	N/A
	AVERAGE	92	8,901	5,323	3,668	32,638,662	580,327	N/A

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Shaley Sandstone	624	724	624	724
Sandy Shale	724	774	724	774
Shale	774	824	774	824
Sandy Shale	824	874	824	874
Shale	874	1,024	874	1,024
Sandy Shale	1,024	1,124	1,024	1,124
Sandy Shale	1,124	1,224	1,124	1,224
Shaley Sandstone	1,224	1,324	1,224	1,324
Sandstone, Tr Shale	1,324	1,424	1,324	1,424
Shale, Tr Sandstone	1,424	1,524	1,424	1,524
Sandy Shale	1,524	1,624	1,524	1,624
Shale, tr Sandstone	1,624	1,774	1,624	1,774
Sandy Shale	1,774	1,795	1,774	1,808
Big Lime	1,821	2,700	1,808	2,765
Fifty Foot Sandstone	2,700	2,797	2,739	2,870
Gordon	2,797	2,923	2,844	3,007
Fifth Sandstone	2,923	3,166	2,981	3,269
Bayard	3,166	3,865	3,243	4,031
Speechley	3,865	4,106	4,005	4,289
Balltown	4,106	4,557	4,263	4,777
Bradford	4,557	4,883	4,751	5,130
Benson	4,883	5,097	5,104	5,362
Alexander	5,097	6,122	5,336	6,509
Sycamore	5,992	6,096	6,341	6,483
Middlesex	6,096	6,181	6,483	6,632
Burkett	6,181	6,216	6,632	6,724
Marcellus	6,216	NA	6,724	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.

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	11/01/2023
Job End Date:	11/01/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02865-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	RIPPLE UNIT 2H
Latitude:	39.5519
Longitude:	-80.9177
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6285
Total Base Water Volume (gal)*:	2553451
Total Base Non Water Volume:	0

Water Source	Percent
Produced Water	100.00%

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
FDP-S1464-22	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8614A	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

Items above are Trade Names. Items below are the individual ingredients.

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			Water	7732-18-5	100.00000	86.53247	
			Crystalline silica, quartz	14808-60-7	100.00000	13.26242	
			Water	7732-18-5	100.00000	0.17514	
			Hydrochloric acid	7647-01-0	30.00000	0.04008	
			Complex amine compound	Proprietary	60.00000	0.03306	
			Hydrotreated distillate	Proprietary	30.00000	0.01653	
			Guar gum	9000-30-0	100.00000	0.00755	
			Ammonium chloride	12125-02-9	5.00000	0.00275	
			Ethoxylated alcohol	Proprietary	5.00000	0.00275	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00275	
			Glutaraldehyde	111-30-8	30.00000	0.00254	
			Sorbitan, mono-9-octadecenoate, (z)	1338-43-8	1.00000	0.00055	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00055	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Methyl Alcohol	67-56-1	100.00000	0.00025	
			Ammonium persulfate	7727-54-0	100.00000	0.00015	
			Fatty acid, tall-oil	61790-12-3	30.00000	0.00008	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00008	
			Oxylated phenolic resin	Proprietary	30.00000	0.00005	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	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%

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

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

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