

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

API 47-085-10516 County Ritchie District Clay
Quad Ellenboro 7.5' Pad Name Olympus Field/Pool Name -----
Farm name Nelson Mark Hayhurst Well Number Doll 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 4348386m Easting 499339m
Landing Point of Curve Northing 4348094.24m Easting 500238.41m
Bottom Hole Northing 4343370m Easting 501886m

Elevation (ft) 1025' 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 2/26/2024 Date drilling commenced 5/1/2024 Date drilling ceased 6/10/2024
Date completion activities began 9/25/2024 Date completion activities ceased 10/29/2024
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 173', 230' Open mine(s) (Y/N) depths Office Of Oil and Gas
Salt water depth(s) ft 430' Void(s) encountered (Y/N) depths Office Of Oil and Gas
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths Office Of Oil and Gas
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

J.N.
04/11/2025

API 47-085 - 10516 Farm name Nelson Mark Hayhurst Well number Doll 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	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	376'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3339'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	24122'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	6931'		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	198 sx	15.6	1.18	234	0'	8 Hrs.
Surface	Class A	321 sx	15.6	1.19	382	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1189	15.6	1.18	1403	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4111 sx (Tail)	13.5 (Spacer), 15.2(Tail)	1.26 (Tail)	5180	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 24,122' MD, 6,319' TVD (BHL), 6326' TVD (Deepest Point Drilled) Loggers TD (ft) 24,090' MD

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

Plug back procedure N/A

Kick off depth (ft) 6,205'

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

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WV Department of
Environmental Protection

04/11/2025

API 47- 085 - 10516 Farm name Nelson Mark Hayhurst Well number Doll 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**

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6257' (TOP)	TVD	7093' (TOP) MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☒ Flow ☐ Pump

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

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
12,954.84 mcfpd 195.24 bpd --- bpd 504.13 bpd ☐ Estimated ☒ Orifice ☐ Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	NAME TVD	TVD	MD	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 Dowell Schlumberger
Address 525 Industrial Blvd City Sugar Land State TX Zip 77478

Stimulating Company Halliburton
Address 3000 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature S Gaspar Title Permitting Agent Date 3/11/25

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

04/11/2025

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EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/25/2024	24036.3	23993.1	36	Marcellus
2	9/26/2024	23954.41806	23789.0083	36	Marcellus
3	9/26/2024	23753.52639	23588.1167	36	Marcellus
4	9/27/2024	23552.63472	23387.225	36	Marcellus
5	9/27/2024	23351.74306	23186.3333	36	Marcellus
6	9/28/2024	23150.85139	22985.4417	36	Marcellus
7	9/28/2024	22949.95972	22784.55	36	Marcellus
8	9/29/2024	22749.06806	22583.6583	36	Marcellus
9	9/29/2024	22548.17639	22382.7667	36	Marcellus
10	9/29/2024	22347.28472	22181.875	36	Marcellus
11	9/30/2024	22146.39306	21980.9833	36	Marcellus
12	10/1/2024	21945.50139	21780.0917	36	Marcellus
13	10/1/2024	21744.60972	21579.2	36	Marcellus
14	10/1/2024	21543.71806	21378.3083	36	Marcellus
15	10/2/2024	21342.82639	21177.4167	36	Marcellus
16	10/2/2024	21141.93472	20976.525	36	Marcellus
17	10/3/2024	20941.04306	20775.6333	36	Marcellus
18	10/3/2024	20740.15139	20574.7417	36	Marcellus
19	10/3/2024	20539.25972	20373.85	36	Marcellus
20	10/4/2024	20338.36806	20172.9583	36	Marcellus
21	10/4/2024	20137.47639	19972.0667	36	Marcellus
22	10/4/2024	19936.58472	19771.175	36	Marcellus
23	10/5/2024	19735.69306	19570.2833	36	Marcellus
24	10/5/2024	19534.80139	19369.3917	36	Marcellus
25	10/5/2024	19333.90972	19168.5	36	Marcellus
26	10/6/2024	19133.01806	18967.6083	36	Marcellus
27	10/6/2024	18932.12639	18766.7167	36	Marcellus
28	10/7/2024	18731.23472	18565.825	36	Marcellus
29	10/7/2024	18530.34306	18364.9333	36	Marcellus
30	10/7/2024	18329.45139	18164.0417	36	Marcellus
31	10/8/2024	18128.55972	17963.15	36	Marcellus
32	10/8/2024	17927.66806	17762.2583	36	Marcellus
33	10/8/2024	17726.77639	17561.3667	36	Marcellus
34	10/9/2024	17525.88472	17360.475	36	Marcellus
35	10/9/2024	17324.99306	17159.5833	36	Marcellus
36	10/9/2024	17124.10139	16958.6917	36	Marcellus
37	10/10/2024	16923.20972	16757.8	36	Marcellus
38	10/10/2024	16722.31806	16556.9083	36	Marcellus
39	10/10/2024	16521.42639	16356.0167	36	Marcellus
40	10/11/2024	16320.53472	16155.125	36	Marcellus
41	10/11/2024	16119.64306	15954.2333	36	Marcellus
42	10/12/2024	15918.75139	15753.3417	36	Marcellus
43	10/12/2024	15717.85972	15552.45	36	Marcellus
44	10/12/2024	15516.96806	15351.5583	36	Marcellus
45	10/12/2024	15316.07639	15150.6667	36	Marcellus
46	10/13/2024	15115.18472	14949.775	36	Marcellus
47	10/13/2024	14914.29306	14748.8833	36	Marcellus
48	10/13/2024	14713.40139	14547.9917	36	Marcellus
49	10/13/2024	14512.50972	14347.1	36	Marcellus
50	10/14/2024	14311.61806	14146.2083	36	Marcellus
51	10/14/2024	14110.72639	13945.3167	36	Marcellus
52	10/14/2024	13909.83472	13744.425	36	Marcellus
53	10/15/2024	13708.94306	13543.5333	36	Marcellus
54	10/15/2024	13508.05139	13342.6417	36	Marcellus
55	10/15/2024	13307.15972	13141.75	36	Marcellus
56	10/15/2024	13106.26806	12940.8583	36	Marcellus
57	10/16/2024	12905.37639	12739.9667	36	Marcellus
58	10/16/2024	12704.48472	12539.075	36	Marcellus
59	10/16/2024	12503.59306	12338.1833	36	Marcellus
60	10/16/2024	12302.70139	12137.2917	36	Marcellus
61	10/16/2024	12101.80972	11936.4	36	Marcellus
62	10/16/2024	11900.91806	11735.5083	36	Marcellus
63	10/16/2024	11700.02639	11534.6167	36	Marcellus
64	10/16/2024	11499.13472	11333.725	36	Marcellus
65	10/17/2024	11298.24306	11132.8333	36	Marcellus
66	10/17/2024	11097.35139	10981.9417	36	Marcellus
67	10/17/2024	10896.45972	10731.05	36	Marcellus
68	10/17/2024	10695.56806	10530.1583	36	Marcellus
69	10/17/2024	10494.67639	10329.2667	36	Marcellus
70	10/17/2024	10293.78472	10128.375	36	Marcellus
71	10/17/2024	10092.89306	9927.48333	36	Marcellus
72	10/17/2024	9892.001389	9726.59167	36	Marcellus
73	10/18/2024	9691.109722	9525.7	36	Marcellus
74	10/18/2024	9490.218056	9324.80833	36	Marcellus
75	10/18/2024	9289.326389	9123.91667	36	Marcellus
76	10/18/2024	9088.434722	8923.025	36	Marcellus
77	10/18/2024	8887.543056	8722.13333	36	Marcellus
78	10/18/2024	8686.651389	8521.24167	36	Marcellus
79	10/19/2024	8485.759722	8320.35	36	Marcellus
80	10/19/2024	8284.868056	8119.45833	36	Marcellus
81	10/19/2024	8083.976389	7918.56667	36	Marcellus
82	10/19/2024	7883.084722	7717.675	36	Marcellus
83	10/19/2024	7682.193056	7516.78333	36	Marcellus
84	10/19/2024	7481.301389	7315.89167	36	Marcellus
85	10/19/2024	7280.409722	7115	36	Marcellus

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66	10/17/2024	11097.35139	10931.9417	36	Marcellus
67	10/17/2024	10896.45972	10731.05	36	Marcellus
68	10/17/2024	10695.56806	10530.1583	36	Marcellus
69	10/17/2024	10494.67639	10329.2667	36	Marcellus
70	10/17/2024	10293.78472	10128.375	36	Marcellus
71	10/17/2024	10092.89306	9927.48333	36	Marcellus
72	10/17/2024	9892.001389	9726.59167	36	Marcellus
73	10/18/2024	9691.109722	9525.7	36	Marcellus
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76	10/18/2024	9088.434722	8923.025	36	Marcellus
77	10/18/2024	8887.543056	8722.13933	36	Marcellus
78	10/18/2024	8686.651389	8521.24167	36	Marcellus
79	10/19/2024	8485.759722	8320.35	36	Marcellus
80	10/19/2024	8284.868056	8119.45833	36	Marcellus
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84	10/19/2024	7481.301389	7315.89167	36	Marcellus
85	10/19/2024	7280.409722	7115	36	Marcellus

04/11/2025

API 47-085-10515 Farm Name Nelson, Mark Heyhurst, Well Number 2011 Unit 1H									
EXHIBIT 2									
Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)	
1	9/25/2024	77.97444	9848.703	6993.51	3088.456	166360	5326.8095	N/A	
2	9/26/2024	89.54641	10229.56	6284.47	2876.645	389960	7739.6905	N/A	
3	9/26/2024	84.67541	9709.833	6656.29	3089.78	395170	7776.2619	N/A	
4	9/27/2024	84.77696	9858.412	7381.35	2840.07	399380	7246.381	N/A	
5	9/27/2024	91.97278	10286.36	6496.51	3408	395700	7163.6429	N/A	
6	9/28/2024	93.80143	10042.61	6235.61	3397.725	391180	7070.9048	N/A	
7	9/28/2024	93.53604	10187.16	6791.33	3704	396030	7104.0476	N/A	
8	9/29/2024	92.823	9825.509	5926.77	3203.11	398260	7119.4286	N/A	
9	9/29/2024	94.87123	10127.83	6201.1	3316.998	397430	7127.2143	N/A	
10	9/29/2024	90.67798	10256.57	6108.31	3447.778	394930	7207.119	N/A	
11	9/30/2024	94.58147	10142.05	7038.64	3448.603	415980	7222.8571	N/A	
12	10/1/2024	96.0958	9802.27	6860.16	3802.625	397890	7110.4048	N/A	
13	10/1/2024	95.66189	10028.56	6071.19	4136	394970	7005.9048	N/A	
14	10/1/2024	93.87852	9899.942	7419.78	3391.695	398060	7047.8095	N/A	
15	10/2/2024	94.32391	9816.002	6751.86	4138	396870	6989.3571	N/A	
16	10/2/2024	94.29767	9407.176	5986.21	3546.004	419860	7159.4048	N/A	
17	10/3/2024	94.27117	9850.277	6638.26	3527.41	416440	7134.2381	N/A	
18	10/3/2024	95.32123	10107.87	6764.82	4292	411340	7008.5952	N/A	
19	10/3/2024	95.83239	9736.857	5478.03	3695.155	424580	7245.9762	N/A	
20	10/4/2024	96.45809	9885.384	6144.23	3414.85	411380	7207.6429	N/A	
21	10/4/2024	96.82355	9875.17	6686.88	7259	419740	7273.4048	N/A	
22	10/4/2024	96.81268	9729.062	6203.14	3511.433	423280	7199.5952	N/A	
23	10/5/2024	97.87278	9811.421	6211.07	3839	415880	7149.3095	N/A	
24	10/5/2024	97.63832	9900.097	6047.9	3822	416700	6996.7619	N/A	
25	10/5/2024	96.07999	9260.55	6233	3772.675	426580	7205	N/A	
26	10/6/2024	97.19976	9296.547	6119.56	4119	419640	7106.1429	N/A	
27	10/6/2024	97.96156	9824.195	6145.21	3684	418720	6970.4286	N/A	
28	10/7/2024	91.72717	9402.314	6096.15	3154.092	417700	7142.0476	N/A	
29	10/7/2024	97.01023	9542.55	6384.98	3651	411840	6939.5714	N/A	
30	10/7/2024	96.42067	9280.601	6306.64	3337.446	422060	7099.2381	N/A	
31	10/8/2024	96.59124	9723.821	6197.69	3222.726	415840	7132.1429	N/A	
32	10/8/2024	97.53771	10036.84	6324	3644	415520	7012.7143	N/A	
33	10/8/2024	96.53975	9617.638	5987.65	3071.597	398330	7082.9762	N/A	
34	10/9/2024	97.25645	9365.548	5827.88	3036.516	399570	6963.5	N/A	
35	10/9/2024	98.38737	9596.901	6206.28	3430	402290	7172.2143	N/A	
36	10/9/2024	96.5596	9648.27	5851.71	2937.14	399410	6966.9762	N/A	
37	10/10/2024	97.47963	9644.635	6615.23	3011.065	403870	6925.4762	N/A	
38	10/10/2024	96.2755	9038.305	6017.46	3208.56	400220	6784.4048	N/A	
39	10/10/2024	96.38538	9324.589	5848.3	3678.438	402070	6934.0238	N/A	
40	10/11/2024	94.76669	9283.938	5741.97	3406	399130	6879.9048	N/A	
41	10/11/2024	97.34391	9347.206	6036.23	3186.198	402510	6913.8333	N/A	
42	10/12/2024	97.30527	9269.104	5928.75	3217.582	397590	6922.0238	N/A	
43	10/12/2024	97.34238	9522.363	5578	3378	402960	6931.119	N/A	
44	10/12/2024	97.36041	9528.462	5601.43	3197	401330	6679.0952	N/A	
45	10/12/2024	97.23225	9377.018	5863.09	2961.256	401920	6878.5714	N/A	
46	10/13/2024	97.04438	9169.593	5910.21	3101.937	399360	6836.1905	N/A	
47	10/13/2024	96.57676	9196.638	5485.76	3225	399290	6674.2857	N/A	
48	10/13/2024	97.78289	9164.909	5828.67	3103	419000	6848.7619	N/A	
49	10/13/2024	97.15173	8857.07	6328.23	3155.225	400450	6856.1905	N/A	
50	10/14/2024	97.87751	9079.541	6081.99	2848.32	400510	6754.0714	N/A	
51	10/14/2024	98.28785	9232.136	5993.79	3645	401120	6643.4048	N/A	
52	10/14/2024	97.37567	8893.895	6380.3	3234	396880	7449.9524	N/A	
53	10/15/2024	96.69033	8904.081	6008.48	3331.801	397090	6722.8571	N/A	
54	10/15/2024	96.58858	8928.92	5633.04	3129	399750	6766.7381	N/A	
55	10/15/2024	96.35078	8928.678	6379.12	2984	418720	7040.9286	N/A	
56	10/15/2024	96.86721	8711.277	5819.53	2992.323	396420	6828.2619	N/A	
57	10/16/2024	97.98521	8702.704	6315.22	3011.113	399470	6714.7619	N/A	
58	10/16/2024	97.6911	8807.445	5716.79	2779.604	398350	6779.4286	N/A	
59	10/16/2024	97.60218	9200.49	6150.81	3156	402880	6781.5238	N/A	
60	10/16/2024	97.29792	8890.503	5946.22	3258	418300	6933.7143	N/A	
61	10/16/2024	96.72336	8801.328	6194.93	3193	395190	6737.2381	N/A	
62	10/16/2024	97.26723	8640.992	5751.92	3276	398550	6757.8571	N/A	
63	10/16/2024	97.56488	8513.309	6546.09	3060.222	390690	6759.881	N/A	
64	10/16/2024	97.50758	8193.233	5920.03	2897.693	394860	6674.3095	N/A	
65	10/17/2024	96.36101	8257.15	5833.44	2800.887	422420	6898.1667	N/A	
66	10/17/2024	97.51238	8371.093	6287.6	3053.451	417540	6877.9048	N/A	
67	10/17/2024	97.09299	8151.297	5577.53	3313	420880	6888.7381	N/A	
68	10/17/2024	97.32563	8089.904	5528.59	3313	398660	6627.8333	N/A	
69	10/17/2024	95.19334	8470.393	6036.89	3318	398880	6715.7381	N/A	
70	10/17/2024	97.55581	8147.071	6532.21	3158	411380	6846.3333	N/A	
71	10/17/2024	95.83051	8046.021	5722.87	3089.562	398390	6709.5	N/A	
72	10/17/2024	97.99177	8330.587	6048.51	3148.078	400310	6661.6905	N/A	
73	10/18/2024	98.00093	8276.235	6422.4	3236.795	400160	6638.0238	N/A	
74	10/18/2024	81.07866	7255.852	5727.3	3102	397230	8320.381	N/A	
75	10/18/2024	96.51198	7994.555	5939.58	3313	420320	6800.3571	N/A	
76	10/18/2024	97.62858	7965.778	5772.04	3127	403740	6846.4762	N/A	
77	10/18/2024	96.69041	7856	5927.48	3087.074	403120	6675.119	N/A	
78	10/18/2024	96.93	7816	5838.05	5552.933	356350	6705.7857	N/A	
79	10/19/2024	95.69463	7760.679	6560.33	3319.533	402000	6544.7619	N/A	
80	10/19/2024	97.70704	7739.824	6183.4	3534.126	420740	6793.9762	N/A	
81	10/19/2024	96.30256	7689.541	6086.04	3217	422320	6813.4286	N/A	
82	10/19/2024	96.93348	7865.416	6278.62	3313	418540	6839.3333	N/A	
83	10/19/2024	95.52417	7773.538	6550.05	3313	407320	6615.2143	N/A	
84	10/19/2024	96.29757	7521.501	6112.74	3134	421060	6848.5	N/A	
85	10/19/2024	96.32493	7105.834	6240.05	3354.071	420100	7174.9524	N/A	
AVERAGE		95.6	9,089	6,163	3,384	34,234,810	590,677	0	

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Office Of Oil and Gas
MAR 13 2025
Wy Department of
Environmental Protection

04/11/2025

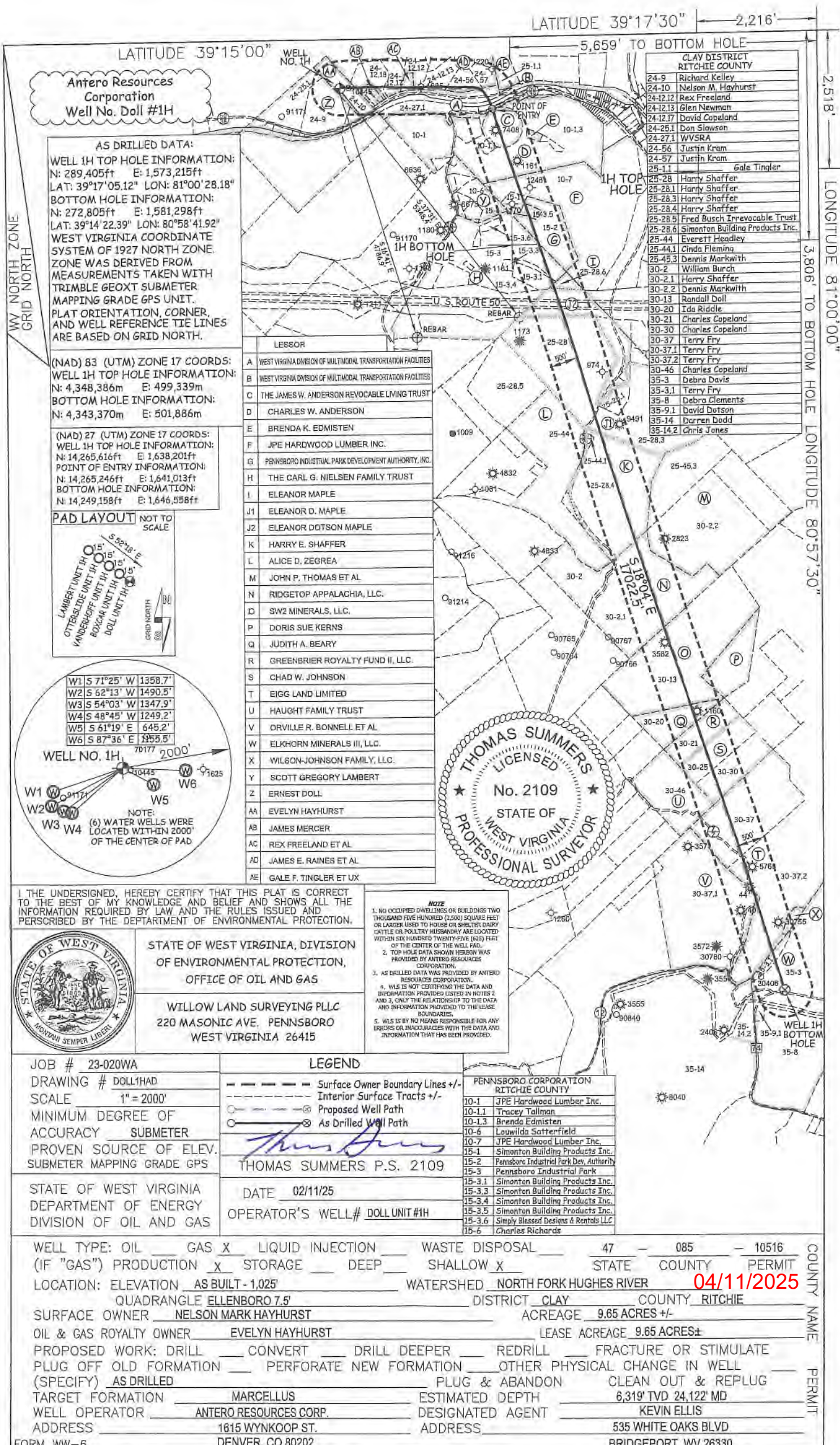
API 47-085-10516 Farm Name Nelson Mark Hayhurst Well Number Doll Unit 1H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Silty Sandstone	104	174	104	174
Silty Sandstone, Occ LS	174	374	174	374
Silty Sandstone	374	574	374	574
Sandstone. Scat SLTST, Scat LS	574	774	574	774
Silty Sandstone, tr LS	774	974	774	974
Sandy Siltstone	974	1,174	974	1,174
Sandy Siltstone	1,174	1,374	1,174	1,374
Silty Sandstone, tr MICA	1,374	1,774	1,374	1,774
Silty Sandstone, tr LS, tr PYR	1,774	1,874	1,774	1,874
Sandy Limestone, rr Shale	1,874	1,831	1,874	1,940
Big Lime	1,857	2,568	1,940	2,764
Fifty Foot Sandstone	2,568	2,677	2,738	2,886
Gordon	2,677	2,876	2,860	3,108
Fifth Sandstone	2,876	3,359	3,082	3,645
Bayard	3,359	3,871	3,619	4,228
Speechley	3,871	4,187	4,202	4,586
Balltown	4,187	4,578	4,560	5,031
Bradford	4,578	4,894	5,005	5,383
Benson	4,894	5,126	5,357	5,644
Alexander	5,126	6,122	5,618	6,818
Sycamore	6,003	6,096	6,658	6,792
Middlesex	6,096	6,196	6,792	6,975
Burkett	6,196	6,220	6,975	7,037
Tully	6,220	6,231	7,037	7,067
Marcellus	6,231	NA	7,067	NA

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Antero Resources Corporation
Well No. Doll #1H

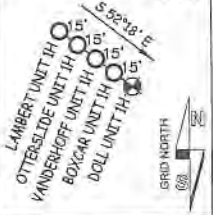
AS DRILLED DATA:

WELL 1H TOP HOLE INFORMATION:
N: 289,405ft E: 1,573,215ft
LAT: 39°17'05.12" LON: 81°00'28.18"
BOTTOM HOLE INFORMATION:
N: 272,805ft E: 1,581,298ft
LAT: 39°14'22.39" LON: 80°58'41.92"
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,
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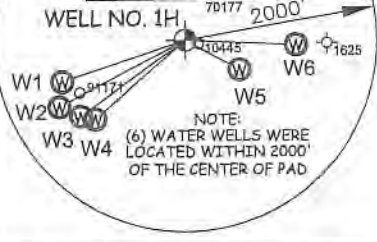
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,348,386m E: 499,339m
BOTTOM HOLE INFORMATION:
N: 4,343,370m E: 501,886m

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POINT OF ENTRY INFORMATION:
N: 14,265,246ft E: 1,641,013ft
BOTTOM HOLE INFORMATION:
N: 14,249,158ft E: 1,646,558ft

PAD LAYOUT NOT TO SCALE



W1	S 71°25' W	1358.7'
W2	S 62°13' W	1490.5'
W3	S 54°03' W	1347.9'
W4	S 48°45' W	1249.2'
W5	S 61°19' E	645.2'
W6	S 87°36' E	1955.5'



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

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.

JOB # 23-020WA
DRAWING # DOLL1HAD
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

PENNSBORO CORPORATION RITCHIE COUNTY	
10-1	JPE Hardwood Lumber Inc.
10-1.1	Tracey Tallman
10-1.3	Brenda Edmisten
10-6	Louwilda Satterfield
10-7	JPE Hardwood Lumber Inc.
10-1	Simonton Building Products Inc.
15-2	Pennsboro Industrial Park Dev. Authority
15-3	Pennsboro Industrial Park
15-3.1	Simonton Building Products Inc.
15-3.3	Simonton Building Products Inc.
15-3.4	Simonton Building Products Inc.
15-3.5	Simonton Building Products Inc.
15-3.6	Simply Blessed Designs & Rentals LLC
15-6	Charles Richards

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

DATE 02/11/25
OPERATOR'S WELL# DOLL UNIT #1H

WELL TYPE: OIL	GAS ☒	LIQUID INJECTION	WASTE DISPOSAL	47	085	10516
(IF "GAS") PRODUCTION	☒	STORAGE	DEEP	SHALLOW ☒	STATE	COUNTY
LOCATION: ELEVATION	AS BUILT - 1,025'	WATERSHED	NORTH FORK HUGHES RIVER	04/11/2025		
QUADRANGLE	ELLENBORO 7.5'	DISTRICT	CLAY	COUNTY	RITCHIE	
SURFACE OWNER	NELSON MARK HAYHURST	ACREAGE	9.65 ACRES +/-			
OIL & GAS ROYALTY OWNER	EVELYN HAYHURST	LEASE ACREAGE	9.65 ACRES±			
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	6,319' TVD 24,122' MD			
WELL OPERATOR	ANTERO RESOURCES CORP.	DESIGNATED AGENT	KEVIN ELLIS			
ADDRESS	1615 WYNKOOP ST.	ADDRESS	535 WHITE OAKS BLVD			
FORM WW-6	DENVER, CO 80202	BRIDGEPORT, WV 26330				

COUNTY NAME PERMIT

LATITUDE 39°17'30"

2,216'

LATITUDE 39°15'00"

Antero Resources Corporation
Well No. Doll #1H

AS DRILLED DATA:

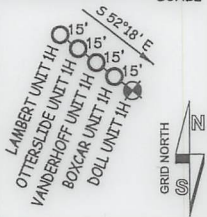
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NOT TO
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W6	S 87°36' E	1955.5'

WELL NO. 1H

W1
W2
W3
W4
W5
W6

NOTE:
(6) WATER WELLS WERE
LOCATED WITHIN 2000'
OF THE CENTER OF PAD



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 # 23-020WA

DRAWING # DOLL1HAD

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

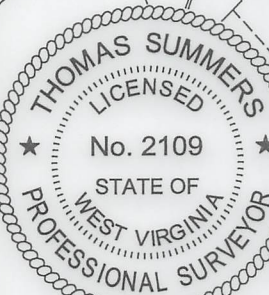
DATE 02/11/25

OPERATOR'S WELL# DOLL UNIT #1H

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WELL TYPE: OIL GAS ☒ LIQUID INJECTION WASTE DISPOSAL 47 085 10516
(IF "GAS") PRODUCTION ☒ STORAGE DEEP SHALLOW ☒ STATE COUNTY PERMIT
LOCATION: ELEVATION AS BUILT - 1,025' WATERSHED NORTH FORK HUGHES RIVER 04/11/2025
QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE
SURFACE OWNER NELSON MARK HAYHURST ACREAGE 9.65 ACRES +/- LEASE ACREAGE 9.65 ACRES±
OIL & GAS ROYALTY OWNER EVELYN HAYHURST
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ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

CLAY DISTRICT RITCHIE COUNTY	
24-9	Richard Kelley
24-10	Nelson M. Hayhurst
24-12.12	Rex Freeland
24-12.13	Glen Newman
24-12.17	David Copeland
24-25.1	Don Slawson
24-27.1	WVSRA
24-56	Justin Kram
24-57	Justin Kram
25-1.1	Gale Tingle
25-28	Harry Shaffer
25-28.1	Harry Shaffer
25-28.3	Harry Shaffer
25-28.4	Harry Shaffer
25-28.5	Fred Busch Irrevocable Trust
25-28.6	Simonton Building Products Inc.
25-44	Everett Headley
25-44.1	Cinda Fleming
25-45.3	Dennis Markwith
30-2	William Burch
30-2.1	Harry Shaffer
30-2.2	Dennis Markwith
30-13	Randall Doll
30-20	Ida Riddle
30-21	Charles Copeland
30-30	Charles Copeland
30-37	Terry Fry
30-37.1	Terry Fry
30-37.2	Terry Fry
30-46	Charles Copeland
35-3	Debra Davis
35-3.1	Terry Fry
35-8	Debra Clements
35-9.1	David Dotson
35-14	Darren Dodd
35-14.2	Chris Jones



- NOTE
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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	09/25/2024
Job End Date:	10/19/2024
State:	West Virginia
County:	Ritchie
API Number:	47-085-10516-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	DOLL Unit 1H
Latitude:	39.284756
Longitude:	-81.007828
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6326
Total Base Water Volume (gal)*:	26025809.67
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
Excelerate LX-21	Halliburton	Friction Reducer					
FDP-S1470-23	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 28%	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 8.8)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					

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WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.58793	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.94313	None
			Water	7732-18-5	100.00000	0.26632	None
			Guar gum	9000-30-0	100.00000	0.17348	None
			Hydrochloric acid	7647-01-0	30.00000	0.07096	None
			Complex amine compound	Proprietary	60.00000	0.01811	None
			Ethanaminium, N,N,N-trimethyl-2-(1-oxo-2-propen-1-yl)oxy-, chloride (1:1), polymer with 2-propenamide	69418-26-4	60.00000	0.01200	None
			Hydrotreated distillate	Proprietary	30.00000	0.00905	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00600	None
			Ammonium chloride	12125-02-9	5.00000	0.00251	None
			Glutaraldehyde	111-30-8	30.00000	0.00244	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00151	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00151	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00100	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00100	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00050	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00050	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00041	None
			Methanol	67-56-1	100.00000	0.00035	None
			Ammonium persulfate	7727-54-0	100.00000	0.00030	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00010	None
			Modified thiourea polymer	Proprietary	30.00000	0.00010	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00009	None
			Citric acid	77-92-9	1.00000	0.00008	None

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			Propargyl alcohol	107-19-7	5.00000	0.00002	None
			Hexadecene	629-73-2	5.00000	0.00002	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00002	None
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	None

* 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.

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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