

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

API 47-085-10518 County Ritchie District Clay
Quad Ellenboro 7.5' Pad Name Olympus Field/Pool Name -----
Farm name Nelson Mark Hayhurst Well Number Lambert 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 4348397m Easting 499325m
Landing Point of Curve Northing 4348019.92m Easting 498981.16m
Bottom Hole Northing 4342356m Easting 500932m

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 7/20/2024
Date completion activities began 9/12/2024 Date completion activities ceased 11/19/2024
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 _____
Salt water depth(s) ft 430' Void(s) encountered (Y/N) depths _____
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]
04/11/2025

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API 47- 085 - 10518 Farm name Nelson Mark Hayhurst Well number Lambert 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"	394'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3168'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	26608'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	6407'		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	320 sx	15.6	1.19	381	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1126 sx	15.6	1.18	1329	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	5515 sx (Tail)	13.5 (Spacer), 15.2(Tail)	1.26 (Tail)	6949	-500' Into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 26,608' MD, 6,287' TVD (BHL), 6304' TVD (Deepest Point Drilled) Loggers TD (ft) 26,577' MD
Deepest formation penetrated Marcellus Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft) 5,740'

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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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	6209' (TOP)	TVD	6657' (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 12,323.30 mcfpd Oil 236.45 bpd NGL _____ bpd Water 510.27 bpd GAS MEASURED BY ☐ Estimated ☒ Orifice ☐ Pilot

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

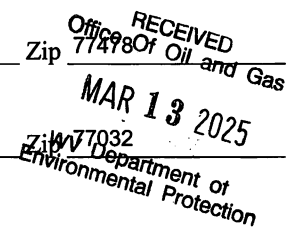
Stimulating Company Halliburton
Address 3000 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Please insert additional pages as applicable.

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

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

04/11/2025



API 47-085-30516 Farm Name Nelson Mark Rayburn Well Number Lambert Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/12/2024	26522.5	25478	36	Marcellus
2	9/12/2024	26489.13367	26272.802	36	Marcellus
3	9/13/2024	26297.13571	26070.8041	36	Marcellus
4	9/13/2024	26035.13776	25868.8061	36	Marcellus
5	9/13/2024	25833.1398	25666.8082	36	Marcellus
6	9/14/2024	25631.14184	25464.8102	36	Marcellus
7	9/14/2024	25429.14388	25262.8122	36	Marcellus
8	9/14/2024	25227.14592	25060.8143	36	Marcellus
9	9/15/2024	25025.14796	24858.8163	36	Marcellus
10	9/15/2024	24823.15	24656.8184	36	Marcellus
11	9/15/2024	24621.15204	24454.8204	36	Marcellus
12	9/16/2024	24419.15408	24252.8224	36	Marcellus
13	9/17/2024	24217.15612	24050.8245	36	Marcellus
14	9/17/2024	24015.15816	23848.8265	36	Marcellus
15	9/17/2024	23813.1602	23646.8286	36	Marcellus
16	9/17/2024	23611.16224	23444.8306	36	Marcellus
17	9/18/2024	23409.16429	23242.8327	36	Marcellus
18	9/18/2024	23207.16633	23040.8347	36	Marcellus
19	9/19/2024	23005.16837	22838.8367	36	Marcellus
20	9/19/2024	22803.17041	22636.8388	36	Marcellus
21	9/19/2024	22601.17245	22434.8408	36	Marcellus
22	9/20/2024	22399.17449	22232.8429	36	Marcellus
23	9/20/2024	22197.17653	22030.8449	36	Marcellus
24	9/20/2024	21995.17857	21828.8469	36	Marcellus
25	9/20/2024	21793.18061	21626.849	36	Marcellus
26	9/20/2024	21591.18265	21424.851	36	Marcellus
27	9/21/2024	21389.18469	21222.8531	36	Marcellus
28	9/21/2024	21187.18673	21020.8551	36	Marcellus
29	9/21/2024	20985.18878	20818.8571	36	Marcellus
30	9/21/2024	20783.19082	20616.8592	36	Marcellus
31	9/22/2024	20581.19286	20414.8612	36	Marcellus
32	9/22/2024	20379.1949	20212.8633	36	Marcellus
33	9/22/2024	20177.19694	20010.8653	36	Marcellus
34	9/22/2024	19975.19898	19808.8673	36	Marcellus
35	9/23/2024	19773.20102	19606.8694	36	Marcellus
36	9/23/2024	19571.20306	19404.8714	36	Marcellus
37	9/23/2024	19369.2051	19202.8735	36	Marcellus
38	9/23/2024	19167.20714	19000.8755	36	Marcellus
39	9/24/2024	18965.20918	18798.8776	36	Marcellus
40	9/24/2024	18763.21122	18596.8796	36	Marcellus
41	9/24/2024	18561.21327	18394.8816	36	Marcellus
42	9/25/2024	18359.21531	18192.8837	36	Marcellus
43	9/25/2024	18157.21735	17990.8857	36	Marcellus
44	9/25/2024	17955.21939	17788.8878	36	Marcellus
45	9/26/2024	17753.22143	17586.8898	36	Marcellus
46	9/26/2024	17551.22347	17384.8918	36	Marcellus
47	9/27/2024	17349.22551	17182.8939	36	Marcellus
48	9/28/2024	17147.22755	16980.8959	36	Marcellus
49	9/28/2024	16945.22959	16778.898	36	Marcellus
50	9/28/2024	16743.23163	16576.9	36	Marcellus
51	9/29/2024	16541.23367	16374.902	36	Marcellus
52	9/29/2024	16339.23571	16172.9041	36	Marcellus
53	9/30/2024	16137.23776	15970.9061	36	Marcellus
54	9/30/2024	15935.2398	15768.9082	36	Marcellus
55	10/1/2024	15733.24184	15566.9102	36	Marcellus
56	10/1/2024	15531.24388	15364.9122	36	Marcellus
57	10/2/2024	15329.24592	15162.9143	36	Marcellus
58	10/2/2024	15127.24796	14960.9163	36	Marcellus
59	10/2/2024	14925.25	14758.9184	36	Marcellus
60	10/3/2024	14723.25204	14556.9204	36	Marcellus
61	10/3/2024	14521.25408	14354.9224	36	Marcellus
62	10/3/2024	14319.25612	14152.9245	36	Marcellus
63	10/4/2024	14117.25816	13950.9265	36	Marcellus
64	10/4/2024	13915.2602	13748.9286	36	Marcellus
65	10/4/2024	13713.26224	13546.9306	36	Marcellus
66	10/5/2024	13511.26429	13344.9327	36	Marcellus
67	10/5/2024	13309.26633	13142.9347	36	Marcellus
68	10/6/2024	13107.26837	12940.9367	36	Marcellus
69	10/6/2024	12905.27041	12738.9388	36	Marcellus
70	10/6/2024	12703.27245	12536.9408	36	Marcellus
71	10/7/2024	12501.27449	12334.9429	36	Marcellus
72	10/7/2024	12299.27653	12132.9449	36	Marcellus
73	10/7/2024	12097.27857	11930.9469	36	Marcellus
74	10/8/2024	11895.28061	11728.949	36	Marcellus
75	10/8/2024	11693.28265	11526.951	36	Marcellus
76	10/8/2024	11491.28469	11324.9531	36	Marcellus
77	10/9/2024	11289.28673	11122.9551	36	Marcellus
78	10/9/2024	11087.28878	10920.9571	36	Marcellus
79	10/10/2024	10885.29082	10718.9592	36	Marcellus
80	10/10/2024	10683.29286	10516.9612	36	Marcellus
81	10/10/2024	10481.2949	10314.9633	36	Marcellus
82	10/10/2024	10279.29694	10112.9653	36	Marcellus
83	10/11/2024	10077.29898	9910.96735	36	Marcellus
84	10/11/2024	9875.30102	9708.96939	36	Marcellus
85	10/12/2024	9673.30306	9506.97143	36	Marcellus
86	10/12/2024	9471.305102	9304.97347	36	Marcellus
87	10/12/2024	9269.307143	9102.97551	36	Marcellus
88	10/12/2024	9067.309184	8900.97755	36	Marcellus
89	10/13/2024	8865.311224	8698.97959	36	Marcellus
90	10/13/2024	8663.313265	8496.98163	36	Marcellus
91	10/13/2024	8461.315306	8294.98367	36	Marcellus
92	10/14/2024	8259.317347	8092.98571	36	Marcellus
93	10/14/2024	8057.319388	7890.98776	36	Marcellus
94	10/14/2024	7855.321429	7688.9898	36	Marcellus
95	10/14/2024	7653.323469	7486.99184	36	Marcellus
96	10/15/2024	7451.32551	7284.99388	36	Marcellus
97	10/15/2024	7249.327551	7082.99592	36	Marcellus
98	10/15/2024	7047.329592	6880.99796	36	Marcellus
99	10/15/2024	6845.331633	6679	36	Marcellus

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API 47-085-10536 Form Name Nelson, Mark Heyhurst Well Number Lambert Unit 1H									
EXHIBIT 2									
Stage No.	Stimulation Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Percent of Nitrogen/other (mls)	
1	9/12/2024	59.11	9479	7886.15	5400	7674	8136.8095	N/A	
2	9/12/2024	74.82439	9277.82	5881.58	4342	409900	8391.0952	N/A	
3	9/13/2024	78.07111	9901.027	6184.82	3359.05	414920	7637.8095	N/A	
4	9/13/2024	81.4458	10152.22	6361.4	3432.035	421380	7502.0714	N/A	
5	9/13/2024	21.18127	3463.703	6262	3822.097	425940	10346.976	N/A	
6	9/14/2024	84.31202	9993.604	6345.61	3803.68	422780	7492.7619	N/A	
7	9/14/2024	89.27121	10327.88	6029.39	3968	417200	7291.6905	N/A	
8	9/14/2024	88.48257	10269.19	6411.63	3605.941	425880	7351.7381	N/A	
9	9/15/2024	80.0767	9030.353	6268.18	3398.137	421040	7234.4524	N/A	
10	9/15/2024	88.29675	10108.97	5753.5	3603.118	421700	7274.6667	N/A	
11	9/15/2024	87.38043	10484.6	6539.66	3841.278	420400	7206.881	N/A	
12	9/16/2024	81.1251	9699.259	6887.76	3550	421560	6870.6905	N/A	
13	9/17/2024	88.18167	10400.37	6566.68	3860	422900	7702.5	N/A	
14	9/17/2024	89.22662	10147.71	6674.67	3566.421	428428	7220.5	N/A	
15	9/17/2024	90.9997	10139.45	6078.86	3544.5	425600	7372.8333	N/A	
16	9/17/2024	89.58491	10327.92	5511.7	4038	423880	7178.3333	N/A	
17	9/18/2024	93.15037	10506.66	6204.69	3875	425540	7150.8333	N/A	
18	9/18/2024	16.98303	2523.187	6191.11	4052.541	417100	11691.143	N/A	
19	9/19/2024	19.03712	2483.163	5717.32	3570	420600	9805.5	N/A	
20	9/19/2024	91.93896	10149.36	6085.92	3131.272	423140	7364.2857	N/A	
21	9/19/2024	90.90541	10469.58	5915.7	3873	423320	7124.4524	N/A	
22	9/20/2024	95.50368	10571.81	6114.88	4169	426120	7186.0476	N/A	
23	9/20/2024	94.89842	10160.81	5961.86	3829.182	423080	7305.2619	N/A	
24	9/20/2024	89.18574	9621.634	6471.25	3669.571	417600	7221.7143	N/A	
25	9/20/2024	95.35661	10236.81	6219.32	3730	423440	7212	N/A	
26	9/20/2024	96.27705	10341.63	6248.71	4238	416440	7104.881	N/A	
27	9/21/2024	95.97075	9847.584	5576.14	3093.434	425820	7319.4048	N/A	
28	9/21/2024	96.82576	10116.38	6065.81	3253.066	420480	7260.4524	N/A	
29	9/21/2024	95.23019	10198.57	6114.61	3814.04	423620	7290.2143	N/A	
30	9/21/2024	95.82025	10558.68	6160.98	3174.428	418900	7103.3095	N/A	
31	9/22/2024	96.21185	9969	6119.87	3861	417920	7061.3095	N/A	
32	9/22/2024	96.31827	10113.56	6262.03	4011.589	411660	7179.0714	N/A	
33	9/22/2024	65.25244	9982.917	6324.71	2285.001	424100	11199.19	N/A	
34	9/22/2024	94.19323	10064.32	5838.28	3171.126	427160	7136.4762	N/A	
35	9/23/2024	96.22008	10248.17	6817.18	3546.499	421720	7155.7143	N/A	
36	9/23/2024	87.60942	10072.65	6327.7	2561.293	422820	7192.7381	N/A	
37	9/23/2024	96.08672	10093.65	6215.91	3130.228	398430	6969.9048	N/A	
38	9/23/2024	96.96706	10114.96	6240.59	3702.652	403950	6906.0238	N/A	
39	9/24/2024	97.05462	10216.38	6480	2904.861	402650	7215.1429	N/A	
40	9/24/2024	73	9191	6499.42	2527.527	398800	10694.31	N/A	
41	9/24/2024	94.17279	9778.287	6416.23	2972.591	404390	7137.0952	N/A	
42	9/25/2024	95.61531	9871.418	6117.88	2939.521	400660	7038.4762	N/A	
43	9/25/2024	92.78494	9404.799	6747.77	2985.224	399800	7056.0238	N/A	
44	9/25/2024	95.75692	10158.96	5947.73	3350.727	400880	7112.881	N/A	
45	9/26/2024	95.31602	9829.792	5392.78	3312.728	399060	7116.119	N/A	
46	9/26/2024	87.99433	10034.51	6987.87	2903	417620	9455.5714	N/A	
47	9/27/2024	74.38846	9582.269	7383.36	2578.936	416380	10243.167	N/A	
48	9/28/2024	80	9533	6810.76	2574.098	416841	9009.8571	N/A	
49	9/28/2024	92.80516	9469.47	7056.38	2862.618	405740	7091.5238	N/A	
50	9/28/2024	95.94042	9343.974	5975.66	3147.661	417740	7193.2143	N/A	
51	9/29/2024	93.5209	9130.133	5773.84	3666.777	394260	6933.7857	N/A	
52	9/29/2024	97.0485	9258.077	6079.93	3480.809	399560	7142.0238	N/A	
53	9/30/2024	94.37725	8760.589	5852.16	3429.841	397870	7117.9762	N/A	
54	9/30/2024	96.46732	9969.483	5436.98	3216.358	413320	7207.5238	N/A	
55	10/1/2024	97.7086	8738.15	5742.63	4007	399810	6904.2381	N/A	
56	10/1/2024	98.3469	9227.801	3955.7	3869.645	414000	6946.0714	N/A	
57	10/2/2024	97.38627	8919.489	5935.09	3347.151	399300	6881.9286	N/A	
58	10/2/2024	96.54649	9519.184	6087.36	3725	390850	6843.9048	N/A	
59	10/2/2024	97.51211	9334.633	6192.48	4045	414480	6983.7619	N/A	
60	10/3/2024	97.6541	9017.684	5702.62	3511.696	414240	7006.3095	N/A	
61	10/3/2024	95.80631	8622.996	4980.86	3595.744	398810	6826.1905	N/A	
62	10/3/2024	97.13024	8410.588	6084.16	3372.837	418020	6971.6667	N/A	
63	10/4/2024	96.42693	8707.898	6226.32	3145.405	418360	7083.7619	N/A	
64	10/4/2024	97.56656	8578.677	6238.04	4282	420120	6974.7381	N/A	
65	10/4/2024	96.59777	8458.736	5945.53	3702.55	418720	7073.5238	N/A	
66	10/5/2024	97.63444	8972.171	6606.17	2928	426240	7017.6905	N/A	
67	10/5/2024	96.2883	8338.212	5848.47	3757	418060	6949.9048	N/A	
68	10/6/2024	96.61508	8006.229	6482.88	3418.458	428940	7050.6905	N/A	
69	10/6/2024	96.46036	8079.849	5889.29	3822	421820	7131.8571	N/A	
70	10/6/2024	95.94679	8086.054	6246.86	3161.54	418260	7232.0476	N/A	
71	10/7/2024	97.17909	8256.676	6273.2	3694.219	427440	7024.0714	N/A	
72	10/7/2024	98.29961	8026.458	6681.97	3588.083	417260	6998.7857	N/A	
73	10/7/2024	97.44039	7952.395	6422.68	3314.469	419000	6972.7619	N/A	
74	10/8/2024	97.65375	8302.802	5861.41	3848	422560	6996	N/A	
75	10/8/2024	97.6461	8350.399	5819.83	3795	414900	6849.1905	N/A	
76	10/8/2024	97.19149	8288.193	6045.19	2971	402490	6975	N/A	
77	10/9/2024	97.10146	7971.033	5849.43	3190.142	397560	6818.381	N/A	
78	10/9/2024	98.40928	7899.025	5399.4	3483	414860	6890.0952	N/A	
79	10/10/2024	97.76493	8119.355	5888.61	3914.577	397640	6885.5714	N/A	
80	10/10/2024	97.64579	8086.117	6046.02	3741	401070	6744.2857	N/A	
81	10/10/2024	97.40663	7747.337	5859.76	3257.902	401730	6734.619	N/A	
82	10/10/2024	97.42663	7688.733	5881.52	3340.106	397660	6775.1667	N/A	
83	10/11/2024	97.38767	7940.397	6149.1	3410.964	393950	6887.6429	N/A	
84	10/11/2024	97.30861	7739.409	5564.87	3083.681	407030	6902.5952	N/A	
85	10/12/2024	97.88365	7615.909	5817.79	3139.808	398090	6737.7381	N/A	
86	10/12/2024	96.69983	7747.555	5504.07	4026	394480	6557.2143	N/A	
87	10/12/2024	97.04650	7821.215	5854.63	3427	398430	6560.2381	N/A	
88	10/12/2024	97.92655	7906.625	6072.39	2829.538	401960	6758.5952	N/A	
89	10/13/2024	97.12817	7241.407	5662.45	3738	405980	6861.5	N/A	
90	10/13/2024	97.23993	7340.754	5138.16	3805	393850	6500.8571	N/A	
91	10/13/2024	98.02625	7356.952	5348.32	3261.531	418560	6678	N/A	
92	10/14/2024	97.88404	7284.219	5364.96	3542.22	400190	6654.9762	N/A	
93	10/14/2024	97.20892	7498.111	5133.2	3536	404050	6379.0952	N/A	
94	10/14/2024	97.75897	7566.795	5411.35	4417	402440	6616.881	N/A	
95	10/14/2024	96.21328	7084.75	5094.44	3626.779	403680	6882.0238	N/A	
96	10/15/2024	97.58262	7139.82	5640.3	3516.627	405330	6779.9048	N/A	
97	10/15/2024	96.04076	6852.822	5168.					

API 47-085-10518 Farm Name Nelson Mark Hayhurst Well Number Lambert 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	1,822	1,874	1,854
Big Lime	1,848	2,569	1,854	2,628
Fifty Foot Sandstone	2,569	2,670	2,602	2,732
Gordon	2,670	2,868	2,706	2,938
Fifth Sandstone	2,868	3,349	2,912	3,435
Bayard	3,349	3,882	3,409	3,990
Speechley	3,882	4,179	3,964	4,298
Balltown	4,179	4,572	4,272	4,707
Bradford	4,572	4,867	4,681	5,014
Benson	4,867	5,095	4,988	5,251
Alexander	5,095	6,079	5,225	6,362
Sycamore	5,964	6,053	6,206	6,336
Middlesex	6,053	6,155	6,336	6,548
Burkett	6,155	6,178	6,548	6,612
Tully	6,178	6,183	6,612	6,631
Marcellus	6,183	NA	6,631	NA

RECEIVED
Office Of Oil and Gas

MAR 13 2025

WV Department of
Environmental Protection

04/11/2025

LATITUDE 39°17'30"

2,264'

LATITUDE 39°15'00"

8,793' TO BOTTOM HOLE

Antero Resources
Corporation
Well No. Lambert #1H

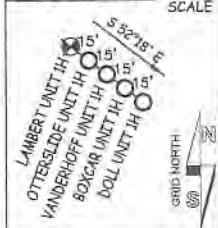
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PLAT ORIENTATION, CORNER,
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ARE BASED ON GRID NORTH.

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PAD LAYOUT

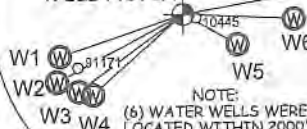
NOT TO SCALE



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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 1155.5'

WELL NO. 1H



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

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 # 23-030WA

DRAWING # LAMBERT1HAD

SCALE 1" = 2000'

MINIMUM DEGREE OF
ACCURACY SUBMETERPROVEN 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# LAMBERT UNIT #1H

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ 47 - 085 - 10518
(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 +/-
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 6,287' TVD 26,608' 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

CLAY DISTRICT
RITCHIE COUNTY

24-7	Tech Service Center
24-9	Richard Kelley
24-10	Nelson M. Hayhurst
24-25	Mark Spiker
24-25.1	Don Slawson
24-26.1	WYSRA
24-34.2	Stonewall Property Holdings LLC
24-34	Craig Hoque
24-35	Richard Lambert
24-35.1	Mary Gibbs
24-35.2	Richard Lambert
24-35.3	Richard Lambert
24-47	Joey Shaffer
24-47.1	John Mirbach
24-47.2	Mark Jones
24-54	Charles Moore
24-55	Jack Vanderhoff
24-55.5	Timothy Mahoney
29-5	The Nature Conservancy
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29-24	Sandra Bradford
29-24.1	Steven Davis
29-28	Sarah Riddle
29-37	Sheila Mayo
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29-41	Bersey Thomson
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29-43	Sheila Ross
29-44	Sheila Mayo
29-45	Charles Sherman
29-46	Robert Pratt
29-59	Amos Bunner
29-60	Amos Bunner
29-61	Harry Kipe
29-61.1	Stephen Marshall
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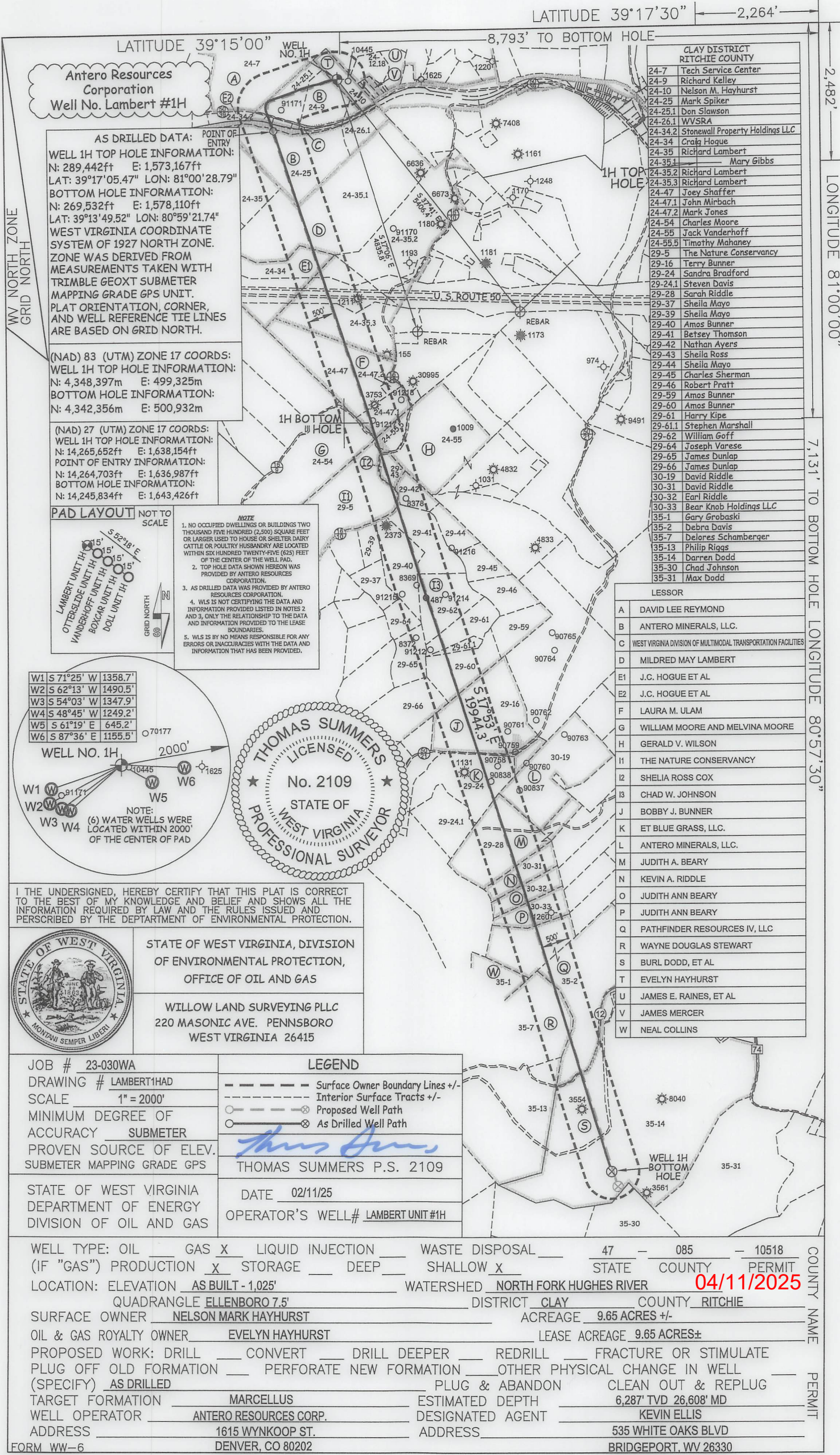
LESSOR

A	DAVID LEE REYMOND
B	ANTERO MINERALS, LLC.
C	WEST VIRGINIA DIVISION OF MULTIMODAL TRANSPORTATION FACILITIES
D	MILDRED MAY LAMBERT
E1	J.C. HOGUE ET AL
E2	J.C. HOGUE ET AL
F	LAURA M. ULAM
G	WILLIAM MOORE AND MELVINA MOORE
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Q	PATHFINDER RESOURCES IV, LLC
R	WAYNE DOUGLAS STEWART
S	BURL DODD, ET AL
T	EVELYN HAYHURST
U	JAMES E. RAINES, ET AL
V	JAMES MERCER
W	NEAL COLLINS

2,482'

LONGITUDE 81°00'00"

7,131' TO BOTTOM HOLE LONGITUDE 80°57'30"



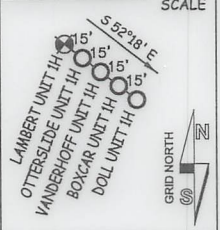
Antero Resources Corporation
Well No. Lambert #1H

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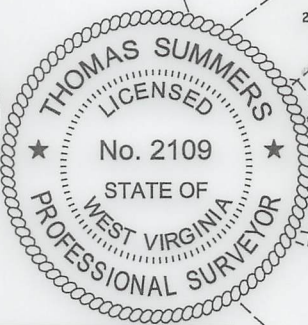
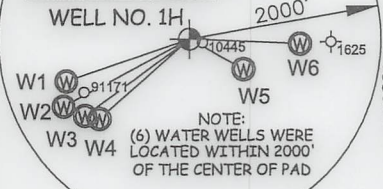
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--- Surface Owner Boundary Lines +/-
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--- Proposed Well Path
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

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

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V	JAMES MERCER
W	NEAL COLLINS

WELL TYPE: OIL	GAS ☒	LIQUID INJECTION	WASTE DISPOSAL	47	085	10518
(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	6,287' TVD 26,608' 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

Hydraulic Fracturing Fluid Product Component Information Disclosure

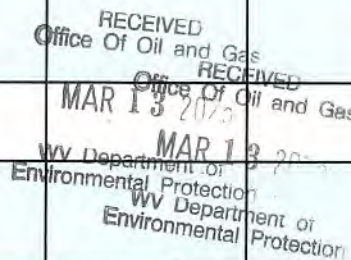
Job Start Date:	09/11/2024
Job End Date:	10/15/2024
State:	West Virginia
County:	Ritchie
API Number:	47-085-10518-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	LAMBERT UNIT 1H
Latitude:	39.284936
Longitude:	-81.007827
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6304
Total Base Water Volume (gal)*:	32236581.28
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
Excellerate 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					



04/11/2025

WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	87.27186	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.44394	None
			Water	7732-18-5	100.00000	0.23698	None
			Hydrochloric acid	7647-01-0	30.00000	0.06152	None
			Complex amine compound	Proprietary	60.00000	0.01744	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	0.01729	None
			Guar gum	9000-30-0	100.00000	0.01241	None
			Hydrotreated distillate	Proprietary	30.00000	0.00872	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00864	None
			Ammonium chloride	12125-02-9	5.00000	0.00289	None
			Glutaraldehyde	111-30-8	30.00000	0.00250	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00145	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00145	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00144	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00144	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00058	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00058	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00042	None
			Methanol	67-56-1	100.00000	0.00030	None
			Ammonium persulfate	7727-54-0	100.00000	0.00024	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00009	None
			Modified thiourea polymer	Proprietary	30.00000	0.00009	None
			Citric acid	77-92-9	1.00000	0.00008	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00007	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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