

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

API 47 - 103 - 03613 County Wetzel District Green
Quad Pine Grove 7.5' Pad Name Cedar Field/Pool Name -----
Farm name Dallison Lumber Company Well Number Wilma 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 4379815.385m Easting 524581.742m
Landing Point of Curve Northing 4379312.56m Easting 524464.44m
Bottom Hole Northing 4373501.616m Easting 526482.792m

Elevation (ft) 1248' 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 10/4/2023 Date drilling commenced 11/1/2023 Date drilling ceased 2/1/2024
Date completion activities began 4/6/2024 Date completion activities ceased 6/20/2024
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 612' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2193' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1010' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

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Reviewed by: [Signature]
12/13/2024
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API 47- 103 - 03613 Farm name Dallison Lumber Company Well number Wilma 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"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	737'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3565'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	28537'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7203'		4.7#, J-55		
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 C	650 sx	15.8	1.16	754	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1515 sx	15.8	1.16	1757	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	5040 sx (Tail)	13.5 (Spacer), 15.2(Lead)	1.30 (Tail)	6552	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 28537' MD, 7220' TVD (BHL), 7220' TVD (Deepest Point Drilled) Loggers TD (ft) 28498' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6398'

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 _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/6/2024	28401	28358	36	Marcellus
2	4/7/2024	28319.51603	28154.0962	36	Marcellus
3	4/7/2024	28118.61218	27953.1923	36	Marcellus
4	4/8/2024	27917.70833	27752.2885	36	Marcellus
5	4/8/2024	27716.80449	27551.8846	36	Marcellus
6	4/9/2024	27515.90664	27350.4808	36	Marcellus
7	4/9/2024	27314.99679	27149.5769	36	Marcellus
8	4/10/2024	27114.09295	26948.6731	36	Marcellus
9	4/10/2024	26913.1891	26747.7692	36	Marcellus
10	4/11/2024	26712.28526	26546.8654	36	Marcellus
11	4/11/2024	26511.38141	26345.9615	36	Marcellus
12	4/12/2024	26310.47756	26145.0577	36	Marcellus
13	4/13/2024	26109.57372	25944.1538	36	Marcellus
14	4/13/2024	25908.66987	25743.25	36	Marcellus
15	4/14/2024	25707.76603	25542.3462	36	Marcellus
16	4/14/2024	25506.86218	25341.4423	36	Marcellus
17	4/14/2024	25305.95833	25140.5385	36	Marcellus
18	4/15/2024	25105.05449	24939.6346	36	Marcellus
19	4/15/2024	24904.15064	24738.7308	36	Marcellus
20	4/15/2024	24703.24679	24537.8269	36	Marcellus
21	4/15/2024	24502.34295	24336.9231	36	Marcellus
22	4/16/2024	24301.4391	24136.0192	36	Marcellus
23	4/16/2024	24100.53526	23935.1154	36	Marcellus
24	4/16/2024	23899.63141	23734.2115	36	Marcellus
25	4/17/2024	23698.72756	23533.3077	36	Marcellus
26	4/17/2024	23497.82372	23332.4038	36	Marcellus
27	4/17/2024	23296.91987	23131.5	36	Marcellus
28	4/18/2024	23096.01603	22930.5962	36	Marcellus
29	4/18/2024	22895.11218	22729.6923	36	Marcellus
30	4/21/2024	22694.20833	22528.7885	36	Marcellus
31	4/21/2024	22493.30449	22327.8846	36	Marcellus
32	4/23/2024	22292.40064	22126.9808	36	Marcellus
33	4/24/2024	22091.49679	21926.0769	36	Marcellus
34	4/24/2024	21890.59295	21725.1731	36	Marcellus
35	4/25/2024	21689.6891	21524.2692	36	Marcellus
36	4/26/2024	21488.78526	21323.3654	36	Marcellus
37	4/27/2024	21287.88141	21122.4615	36	Marcellus
38	4/28/2024	21086.97756	20921.5577	36	Marcellus
39	4/29/2024	20886.07372	20720.6538	36	Marcellus
40	4/30/2024	20685.16987	20519.75	36	Marcellus
41	4/30/2024	20484.26603	20318.8462	36	Marcellus
42	5/2/2024	20283.36218	20117.9423	36	Marcellus
43	5/2/2024	20082.45833	19917.0385	36	Marcellus
44	5/3/2024	19881.55449	19716.1346	36	Marcellus
45	5/4/2024	19680.65064	19515.2308	36	Marcellus
46	5/4/2024	19479.74679	19314.3269	36	Marcellus
47	5/4/2024	19278.84295	19113.4231	36	Marcellus
48	5/5/2024	19077.9391	18912.5192	36	Marcellus
49	5/5/2024	18877.03526	18711.6154	36	Marcellus
50	5/5/2024	18676.13141	18510.7115	36	Marcellus
51	5/5/2024	18475.22756	18309.8077	36	Marcellus
52	5/6/2024	18274.32372	18108.9038	36	Marcellus
53	5/6/2024	18073.41987	17908	36	Marcellus
54	5/6/2024	17872.51603	17707.0962	36	Marcellus
55	5/6/2024	17671.61218	17506.1923	36	Marcellus
56	5/6/2024	17470.70833	17305.2885	36	Marcellus
57	5/6/2024	17269.80449	17104.3846	36	Marcellus
58	5/7/2024	17068.90064	16903.4808	36	Marcellus
59	5/7/2024	16867.99679	16702.5769	36	Marcellus
60	5/7/2024	16667.09295	16501.6731	36	Marcellus
61	5/7/2024	16466.1891	16300.7692	36	Marcellus
62	5/7/2024	16265.28526	16099.8654	36	Marcellus
63	5/7/2024	16064.38141	15898.9615	36	Marcellus
64	5/8/2024	15863.47756	15698.0577	36	Marcellus
65	5/8/2024	15662.57372	15497.1538	36	Marcellus
66	5/8/2024	15461.66987	15296.25	36	Marcellus
67	5/9/2024	15260.76603	15095.3462	36	Marcellus
68	5/9/2024	15059.86218	14894.4423	36	Marcellus
69	5/9/2024	14858.95833	14693.5385	36	Marcellus
70	5/10/2024	14658.05449	14492.6346	36	Marcellus
71	5/10/2024	14457.15064	14291.7308	36	Marcellus
72	5/11/2024	14256.24679	14090.8269	36	Marcellus
73	5/11/2024	14055.34295	13889.9231	36	Marcellus
74	5/11/2024	13854.4391	13689.0192	36	Marcellus
75	5/12/2024	13653.53526	13488.1154	36	Marcellus
76	5/12/2024	13452.63141	13287.2115	36	Marcellus
77	5/13/2024	13251.72756	13086.3077	36	Marcellus
78	5/13/2024	13050.82372	12885.4038	36	Marcellus
79	5/13/2024	12849.91987	12684.5	36	Marcellus
80	5/14/2024	12649.01603	12483.5962	36	Marcellus
81	5/14/2024	12448.11218	12282.6923	36	Marcellus
82	5/14/2024	12247.20833	12081.7885	36	Marcellus
83	5/15/2024	12046.30449	11880.8846	36	Marcellus
84	5/15/2024	11845.40064	11679.9808	36	Marcellus
85	5/16/2024	11644.49679	11479.0769	36	Marcellus
86	5/16/2024	11443.59295	11278.1731	36	Marcellus
87	5/16/2024	11242.6891	11077.2692	36	Marcellus
88	5/17/2024	11041.78526	10876.3654	36	Marcellus
89	5/17/2024	10840.88141	10675.4615	36	Marcellus
90	5/17/2024	10639.97756	10474.5577	36	Marcellus
91	5/18/2024	10439.07372	10273.6538	36	Marcellus
92	5/18/2024	10238.16987	10072.75	36	Marcellus
93	5/19/2024	10037.26603	9871.8462	36	Marcellus
94	5/19/2024	9836.36218	9670.9423	36	Marcellus
95	5/19/2024	9635.45833	9470.03846	36	Marcellus
96	5/20/2024	9434.55449	9269.13462	36	Marcellus
97	5/20/2024	9233.65064	9068.23077	36	Marcellus
98	5/20/2024	9032.74679	8867.32692	36	Marcellus
99	5/21/2024	8831.84295	8666.42308	36	Marcellus
100	5/21/2024	8630.939103	8465.51923	36	Marcellus
101	5/21/2024	8430.035256	8264.61538	36	Marcellus
102	5/22/2024	8229.13141	8063.71154	36	Marcellus
103	5/22/2024	8028.227564	7862.80769	36	Marcellus
104	5/23/2024	7827.323718	7661.90385	36	Marcellus
105	5/23/2024	7626.419872	7461	36	Marcellus

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API 47-103-03613 Farm Name Dallison Lumber Company, Well Number Wilma Unit 1H								
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 (bbbls)	Amount of Nitrogen/other (units)
1	4/6/2024	74.61106	10028.78	8944.08	9575.551	166560	5215.4286	N/A
2	4/7/2024	81.63702	9820.484	6848.75	4190.491	423600	8023.0476	N/A
3	4/7/2024	83.95309	10413.84	6656.95	3884.707	422480	7264.9048	N/A
4	4/8/2024	88.89713	10551.25	6770.84	4440.662	410520	7176.3571	N/A
5	4/8/2024	88.80498	10490.69	6886.69	4667.637	421100	7786.5714	N/A
6	4/9/2024	86.40636	10503.51	6589.09	4290.407	420520	7114.2381	N/A
7	4/9/2024	86.70976	10058.28	7162.94	4310.799	406720	7718.1905	N/A
8	4/10/2024	87.77766	10343.68	6927.62	4237.316	404060	7157.5238	N/A
9	4/10/2024	90.4282	10584.93	6761.52	4505.199	418940	7118.1667	N/A
10	4/11/2024	87.60034	10549.17	6665.14	4411.238	418960	7177.2857	N/A
11	4/11/2024	90.67924	10631.96	7533.07	4326.353	417160	7270.0714	N/A
12	4/12/2024	88.17965	10421.97	7160.26	4243.105	393510	6978.1905	N/A
13	4/13/2024	90.84776	10592.62	7108.88	4368.252	420640	7233.0476	N/A
14	4/13/2024	91.78579	10477.39	6400.32	4469.963	418300	7251.7381	N/A
15	4/14/2024	88.98349	10565.86	6321.05	4531	413280	7273.9762	N/A
16	4/14/2024	91.58429	10547.46	6376.89	4582.419	413920	7287.1667	N/A
17	4/14/2024	91.61604	10605.47	6260.7	4407.464	416380	7277.8095	N/A
18	4/15/2024	89.9003	10606.96	7019.48	4621	421020	7118.5476	N/A
19	4/15/2024	87.93342	10189.51	6527.11	4554.888	412220	7253.2381	N/A
20	4/15/2024	89.04465	10379.68	6825.45	4280.051	422680	7310.0714	N/A
21	4/15/2024	88.11237	10631.72	7141.73	4403.696	421060	7179.5952	N/A
22	4/16/2024	90.06299	10585.98	7422.22	4319.255	420940	7216.7143	N/A
23	4/16/2024	88.62408	10472.56	6138.16	4106.462	409640	7159.5952	N/A
24	4/16/2024	92.86951	10559.72	6502.94	4313.537	419480	7176.6429	N/A
25	4/17/2024	93.54509	10431.33	6533.24	4380.879	413820	7122.9286	N/A
26	4/17/2024	89.56195	10341.86	7142.67	4093.681	415840	7230.9048	N/A
27	4/17/2024	91.41315	10384.3	6822.72	4290.692	417160	7155.0238	N/A
28	4/18/2024	94.24255	10481.29	7400.62	4076.891	424920	7268.3095	N/A
29	4/18/2024	89.20139	10552.58	6890.91	3844.938	415360	7115.8571	N/A
30	4/21/2024	94.15529	10440.54	7050.11	4099.965	417240	7227.1905	N/A
31	4/21/2024	92.74734	10675.29	6404.05	4351	414520	7108.5714	N/A
32	4/23/2024	90.5783	10550.21	7113.24	4289.352	419520	7210.4286	N/A
33	4/24/2024	85.90121	10421.07	7367.15	4125.71	420340	7327.5714	N/A
34	4/24/2024	88.06082	10454.28	6557.55	4452.569	410920	7332.4762	N/A
35	4/25/2024	85.45112	10626.16	7465.99	4203.786	418540	7305.8333	N/A
36	4/26/2024	87.15603	10380.66	7472.06	4333.659	423580	7506.0714	N/A
37	4/27/2024	90.59927	10496.61	6414.38	4567.003	420460	7455.2857	N/A
38	4/28/2024	88.54735	10115.11	7190.77	4488.559	423520	7711.0238	N/A
39	4/29/2024	91.44027	10118.95	6831.38	4613.696	403247	8158.8571	N/A
40	4/30/2024	89.70217	9866.802	6206.58	4661.924	419760	7541.1905	N/A
41	4/30/2024	90.74587	10037.02	7210.64	4495.498	421020	7461.0714	N/A
42	5/2/2024	92.61239	10148.77	7004.96	4660.18	425940	7524.7381	N/A
43	5/2/2024	88.27354	9946.592	7116.93	4371.594	419600	7403.1429	N/A
44	5/3/2024	92.43242	9914.037	7147.37	4208	423760	7384.881	N/A
45	5/4/2024	92.40545	9950.844	6944.42	4461.285	414620	7359.2619	N/A
46	5/4/2024	89.69457	9956.417	7125.53	4421.505	419800	7707.7619	N/A
47	5/4/2024	82.09413	9488.812	7262.41	4450.436	419260	8754.2143	N/A
48	5/5/2024	86.19048	9277.662	7591.34	4312.002	414920	7464.6667	N/A
49	5/5/2024	89.59947	9616.649	6954	4695	419340	7726.1429	N/A
50	5/5/2024	86.53676	9339.485	6458.13	4442.235	422040	7475.2619	N/A
51	5/5/2024	90.29783	9524.082	6917.77	4503.72	417460	7483.2619	N/A
52	5/6/2024	89.22524	9558.263	7102.91	4395.56	418980	7528.3095	N/A
53	5/6/2024	90.84022	9574.28	6171.34	4952	413780	7522.4762	N/A
54	5/6/2024	92.73981	9905.473	7252.82	4637	424540	7123.0952	N/A
55	5/6/2024	91.76475	9788.246	7113.63	4535	421680	7559.5476	N/A
56	5/6/2024	91.60716	9555.985	7943.47	4363.016	417180	7601.0238	N/A
57	5/6/2024	90.56479	8986.264	6581.52	4367.605	417820	7362.3762	N/A
58	5/7/2024	89.91564	9094.066	7402.13	4513.855	417660	7630.5238	N/A
59	5/7/2024	92.66721	9290.58	6890.97	4434	419560	7347.1667	N/A
60	5/7/2024	90.75	9096.336	7016.79	4769	421360	7273.1667	N/A
61	5/7/2024	92.16537	9297.222	7042.04	4278.903	419560	7374.4762	N/A
62	5/7/2024	90.9	8939.229	6485.58	5317	418080	7730.7143	N/A
63	5/7/2024	89.47882	8720.715	6650.8	4547.655	399686	7262.4524	N/A
64	5/8/2024	90.63519	9083	6466.95	4660	414520	7785.6667	N/A
65	5/8/2024	95.30195	9314.742	6627.55	4786	424880	7209	N/A
66	5/8/2024	97.35811	9334.683	6566.55	4399.229	420540	7257.2619	N/A
67	5/9/2024	96.26555	9249.134	6356.16	4507.717	404760	7051.7381	N/A
68	5/9/2024	97.32197	9463.94	6278.45	4453	414920	7318.4524	N/A
69	5/9/2024	95.98581	9356.166	6310.38	4477.952	403480	7071.2143	N/A
70	5/10/2024	95.03197	9099.647	6243.44	4419	419340	7538.4762	N/A
71	5/10/2024	94.72814	9075.665	6886.3	4376.897	415960	7003.9524	N/A
72	5/11/2024	96.1133	9057.163	6409.56	4505.575	415780	7207.2143	N/A
73	5/11/2024	96.21158	9075.398	6231.66	4548	403180	7081.881	N/A
74	5/11/2024	95.88296	9011.762	6734.21	4647.52	418440	7142.1119	N/A
75	5/12/2024	95.89605	9065.057	6681.84	4594.365	400200	6934.9524	N/A
76	5/12/2024	97.36127	9070.499	5960.2	4062.482	418500	7456.1119	N/A
77	5/13/2024	95.19588	8898.571	6026.61	4325.606	418400	7060.2857	N/A
78	5/13/2024	97.37692	9100	5768.11	4476	413700	7355.5	N/A
79	5/13/2024	96.42583	8665.177	6181.99	4582.923	419920	7252.2619	N/A
80	5/14/2024	96.80167	8772.963	5930.53	4201.353	399770	7029.6429	N/A
81	5/14/2024	96.584	8837.11	6008.54	4228.776	415780	7296.4524	N/A
82	5/14/2024	97.08388	8813.405	6532.04	4161.961	423640	7148.4048	N/A
83	5/15/2024	97.30835	8730.494	6032.5	4161.22	415580	7169.7381	N/A
84	5/15/2024	97.25141	8693.137	6137.45	4398.004	418360	7138.7143	N/A
85	5/16/2024	96.92765	8406.362	6397.56	4592	422640	7081.8095	N/A
86	5/16/2024	97.50591	8548.673	6241.57	4315.714	412280	7166.6429	N/A
87	5/16/2024	95.36089	8362.294	5981.06	4365.861	423920	8162.9762	N/A
88	5/17/2024	96.37267	8210.314	6212.2	4356.519	418980	7153.6905	N/A
89	5/17/2024	98.11522	8280.837	6439.72	4140.856	422880	7218.1667	N/A
90	5/17/2024	98.55239	8357.228	6850.37	4136	420800	7087.5	N/A
91	5/18/2024	97.84284	8477.551	6794.73	4290.051	427080	7083.9524	N/A
92	5/18/2024	98.26836	8191.217	6350.04	4392.308	418760	7192.6905	N/A
93	5/19/2024	96.61007	8107.321	5901.94	4059	412820	7214.3571	N/A
94	5/19/2024	97.4749	8146.493	6190.72	4115	419660	7085.5476	N/A
95	5/19/2024	98.07139	8083.596	6101.59	4166	419240	7159.7143	N/A
96	5/20/2024	98.0533	8162.772	6263.31	4394	419660	7202.6667	N/A
97	5/20/2024	98.15997	7944.946	6568.79	4379	413940	7164.3571	N/A
98	5/20/2024	97.94339	8115.698	5691.08	4291.769	417380	7172.881	N/A
99	5/21/2024	97.02069	7763.289	5809.9	4362	421200	7083.1119	N/A
100	5/21/2024	97.894	7517.44	5632.49	4333	423680	7011.1119	N/A
101	5/21/2024	96.76895	7641.069	6217.2	4241.974	418160	6931.0238	N/A
102	5/22/2024	97.82115	7829.633	6010.14	4449	415040	7016.881	N/A
103	5/22/2024	98.11788	7836.581	6085.54	4175.126	418840	6880.5714	N/A
104	5/23/2024	97.92614	7410.219	5929.83	4143.586	414620	6799.5476	N/A
105	5/23/2024	97.25535	7448.078	5591.94	4053.695	419620	6861.3333	N/A
	AVERAGE	92.4	9,472	6,681	4,378	43,540,933	764,776	0

RECEIVED
Office of Oil and Gas

OCT 02 2024

WV Department of
Environmental Protection

12/13/2024

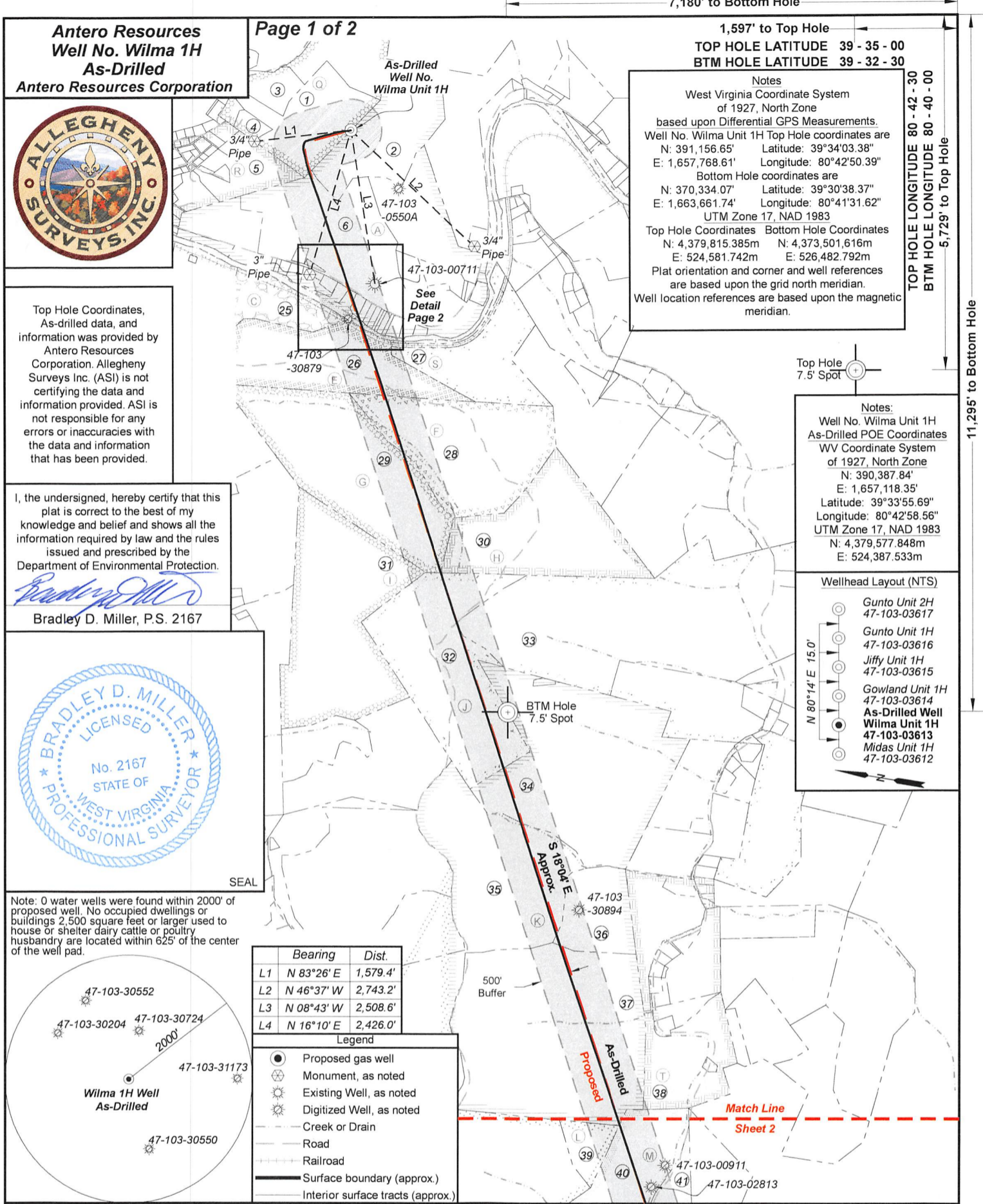
EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone, LS	100	320	100	320
Shaley Siltstone, tr LS	320	370	320	370
Sandy Shale	370	620	370	620
Siltstone, Occ SS, tr Shale, tr Coal	470	820	470	820
Sandy Siltstone, tr LS, tr Shale	620	820	620	820
Silty Sandstone, tr LS	820	920	820	920
Sandy Siltstone, tr LS, tr Shale	920	1,020	920	1,020
Silty Sandstone, tr Shale	1,020	1,120	1,020	1,120
Silty Sandstone, tr Shale, tr LS	1,120	1,220	1,120	1,220
Shaley Sandstone, occ Siltstone	1,220	1,420	1,220	1,420
Silty Sandstone, tr shale	1,420	1,520	1,420	1,520
Sandy Siltstone, tr Coal	1,520	1,670	1,520	1,670
Siltly Sandstone, tr Coal, tr Shale	1,670	1,870	1,670	1,870
Sandy Shale, tr Coal	1,870	2,020	1,870	2,020
Silty Sandstone, rr Coal	2,020	2,167	2,020	2,173
Big Lime	2,197	2,998	2,173	3,017
Fifty Foot Sandstone	2,998	3,066	2,987	3,086
Gordon	3,066	3,307	3,056	3,329
Fifth Sandstone	3,307	3,655	3,299	3,681
Bayard	3,655	4,026	3,651	4,057
Speechley	4,026	4,172	4,027	4,206
Balltown	4,172	4,656	4,176	4,696
Bradford	4,656	5,239	4,666	5,287
Benson	5,239	5,694	5,257	5,748
Alexander	5,694	6,887	5,718	7,012
Sycamore	6,728	6,857	6,820	6,982
Middlesex	6,857	6,954	6,982	7,131
Burkett	6,954	6,984	7,131	7,183
Tully	6984	7072	7183	7409
Marcellus	7072	NA	7409	NA

RECEIVED
Office of Oil and Gas

OCT 02 2024

WV Department of
Environmental Protection12/13/2024

Antero Resources
Well No. Wilma 1H
As-Drilled
Antero Resources Corporation

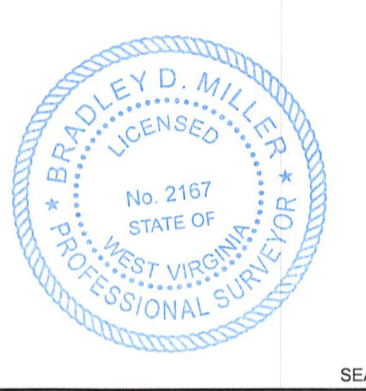
Page 1 of 2



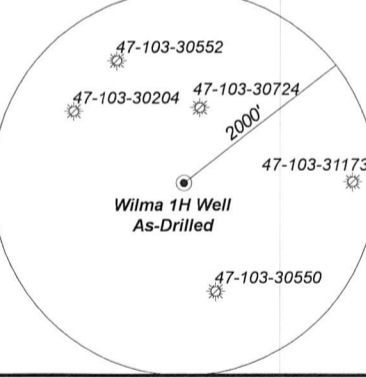
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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: 0 water wells 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.



	Bearing	Dist.
L1	N 83°26' E	1,579.4'
L2	N 46°37' W	2,743.2'
L3	N 08°43' W	2,508.6'
L4	N 16°10' E	2,426.0'

- Legend**
- Proposed gas well
 - ⊗ Monument, as noted
 - ⊙ Existing Well, as noted
 - ⊙ Digitized Well, as noted
 - Creek or Drain
 - Road
 - Railroad
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

7,180' to Bottom Hole

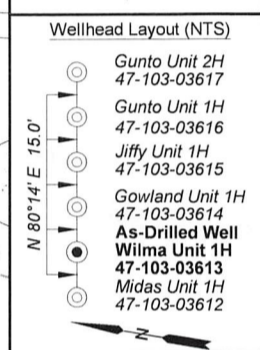
1,597' to Top Hole
 TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Wilma Unit 1H Top Hole coordinates are N: 391,156.65' Longitude: 80°42'03.38" E: 1,657,768.61' Longitude: 80°42'50.39" Bottom Hole coordinates are N: 370,334.07' Longitude: 39°30'38.37" E: 1,663,661.74' Longitude: 80°41'31.62" UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,379,815.385m N: 4,373,501.616m
 E: 524,581.742m E: 526,482.792m
 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

TOP HOLE LONGITUDE 80 - 42 - 30
 BTM HOLE LONGITUDE 80 - 40 - 00
 5,729' to Top Hole



Notes:
 Well No. Wilma Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone
 N: 390,387.84'
 E: 1,657,118.35'
 Latitude: 39°33'55.69"
 Longitude: 80°42'58.56"
 UTM Zone 17, NAD 1983
 N: 4,379,577.848m
 E: 524,387.533m



11,295' to Bottom Hole

FILE NO: 231-34-G-23
 DRAWING NO: Wilma 1H As-Drilled Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

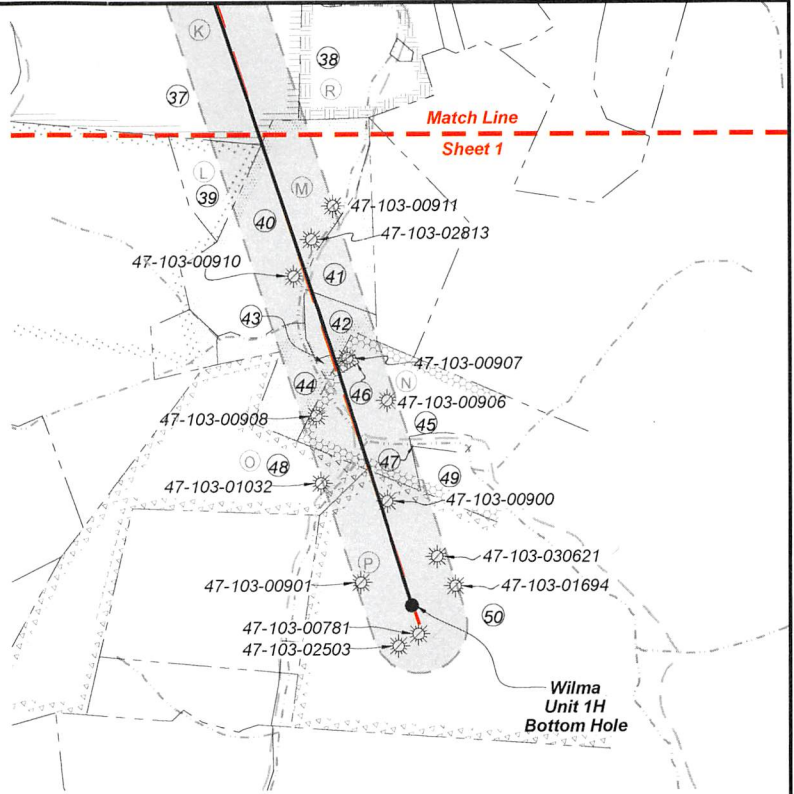
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: September 9 20 24
 OPERATOR'S WELL NO. Wilma 1H
 API WELL NO
 47 - 103 - 03613
 STATE COUNTY PERMIT

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

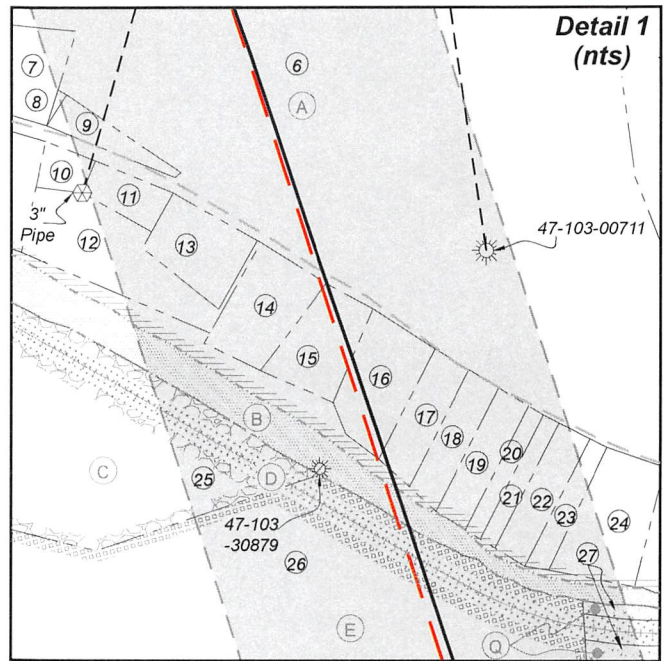
LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green Kenneth E. & COUNTY: Wetzel 12/13/2024
 SURFACE OWNER: Vicky A. VanDyne ACREAGE: 42.33
 ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 629.58633
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE 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: 7,220' TVD 28,537' 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



ID	TM-Par	Owner	Bk/Pg	Acres
1	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
2	14-19	Dallison Lumber Company	357/267	51.50
3	13-34	Kenneth E. & Vicky A. VanDyne	357/204	14.50
4	13-39	Ruth E. Staley	256/283	3.12
5	13-54	Loraine Highley	WB81/258	20.17
6	13-83	Emma Virginia Miller	133/455	58.00
7	13-76	Edward G. Stewart	317/678	1.30
8	13-75	Edward G. Stewart	317/678	0.03
9	13-77	Gilbert H. Miller	WB32/145	0.72
10	13-80	Nathaniel L. & Lisa D. Yoho	402/4	0.33
11	13-81.1	Nathaniel L. & Lisa D. Yoho	402/4	0.48
12	13-81.4	First Baptist Church of Pine Grove	431/168	1.94
13	13-81.3	First Baptist Church of Pine Grove	431/168	1.05
14	13-89	First Baptist Church of Pine Grove	352/533	1.18
15	13-81	Eathel Irene Nolan	266/619	1.10
16	13-82	Amy Watts Warnick	488/705	1.34
17	14-51	Dennis J. & Alex C. Hayse	477/508	0.75
18	14-52	Michael T. & Mildred L. Quinn	483/885	0.75
19	14-53	David Jack & Tonya Michelle Stout	370/158	0.75
20	14-54	David Jack & Tonya Michelle Stout	370/158	0.48
21	14-55	James Allen & Andrea N. Sell	333/134	0.50
22	14-56	James Allen & Andrea N. Sell	333/134	0.73
23	14-57	James Allen & Andrea N. Sell	333/134	0.31
24	17-6	Phillip Dennison	442/24	1.71
25	13-78	Sebastian, Jr. & Marcella Harrison	281/94	25.37
26	17-5	Coastal Forest Resources	444/105	90.00
27	17-10	Coastal Forest Resources	444/105	90.00
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43	21-18	Christopher & Kimberly Campbell	478/169	0.72
44	21-15.1	Debra Williams	398/447	2.00
45	21-21	Santford Joe Haught	423/709	83.00
46	21-19	Roger L. & Karon S. Fluharty	342/175	0.46
47	23-40	Cecil Fisher	337/471	2.52
48	23-1	Susan Henderson	417/744	100.00
49	23-40.5	Joseph A. Bassett	474/485	10.91
50	23-4	Coastal Forest Resources Co.	491/498	154.51

Leases			
A	Jenkins Miller	K	Shiben Estates Inc.
B	WVDNR	L	Josephine Brast, et al
C	Marcella K. Harrison	M	Louisa J. Fluharty
D	CSX Transportation, Inc.	N	Rachel Wright, et al
E	Tribune Resources Minerals, LLC	O	Israel Miller, et ux
F	Jeffrey T. Hayes	P	John R. McCoy, et al
G	Shiben Estates Inc.	Q	Antero Minerals, LLC
H	Tribune Resources Minerals, LLC	R	Antero Minerals, LLC
I	Tribune Resources Minerals, LLC	S	Coastal Forest Resources Co.
J	Thomas Cunningham, et ux	T	Shiben Estates Inc.



FILE NO: 231-34-G-23
 DRAWING NO: Wilma 1H As-Drilled Plat
 SCALE: 1" = 2000'
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 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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 API WELL NO
47 - 103 - 03613
 STATE COUNTY PERMIT

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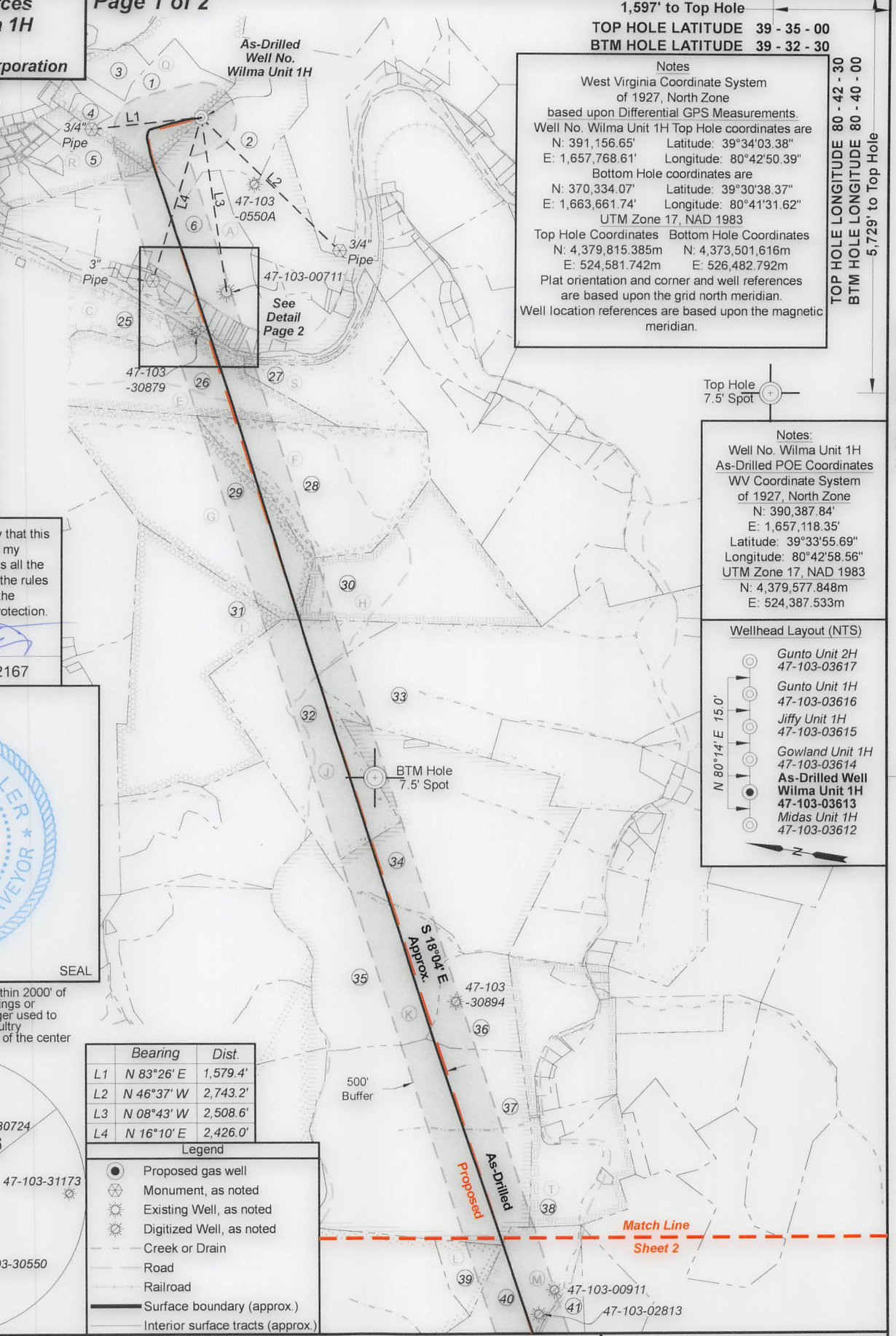
Antero Resources
Well No. Wilma 1H
As-Drilled
Antero Resources Corporation

Page 1 of 2

7,180' to Bottom Hole

1,597' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00
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 5,729' to Top Hole

11,295' to Bottom Hole

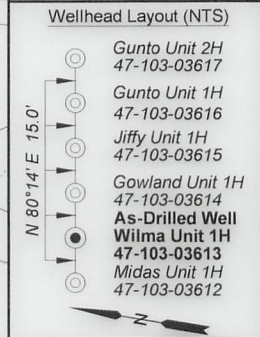
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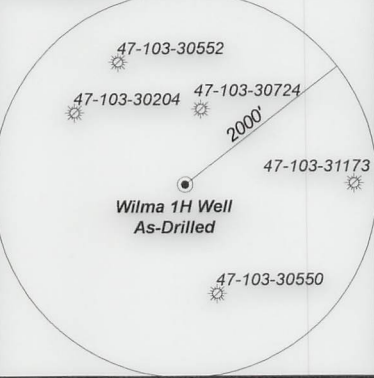
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



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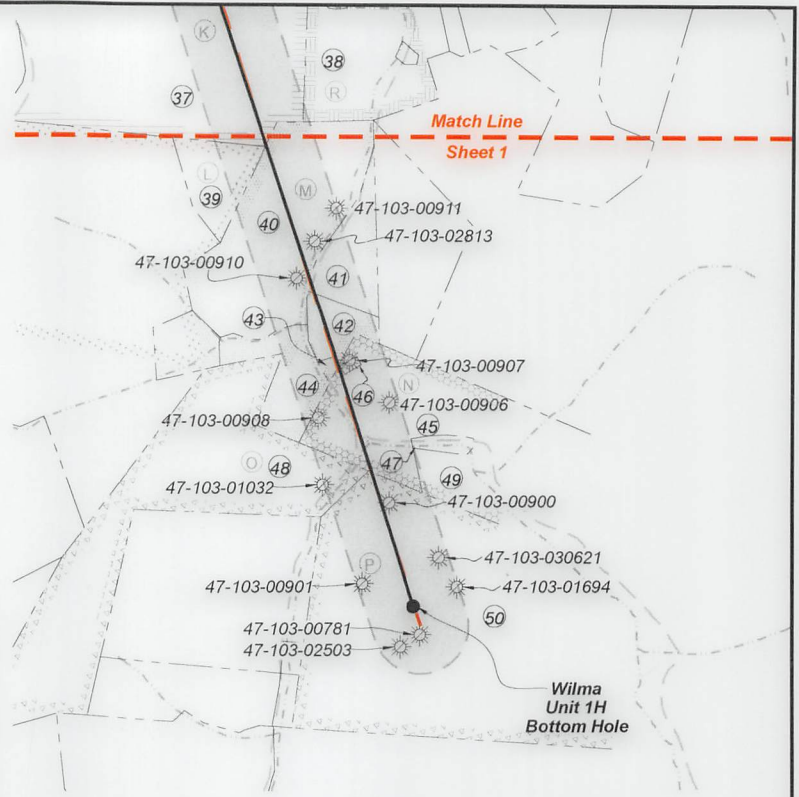
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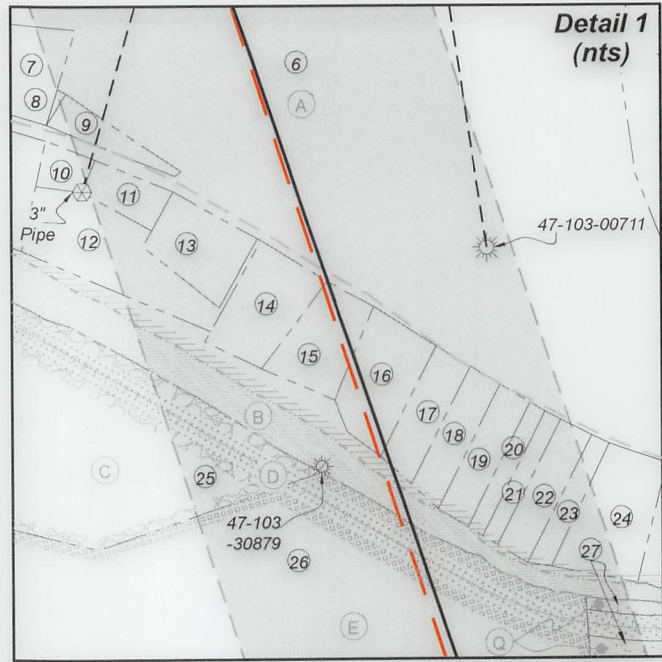
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7	13-76	Edward G. Stewart	317/678	1.30
8	13-75	Edward G. Stewart	317/678	0.03
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10	13-80	Nathaniel L. & Lisa D. Yoho	402/4	0.33
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16	13-82	Amy Watts Warnick	488/705	1.34
17	14-51	Dennis J. & Alex C. Hayse	477/508	0.75
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44	21-15.1	Debra Williams	398/447	2.00
45	21-21	Santford Joe Haught	423/709	83.00
46	21-19	Roger L. & Karon S. Fluharty	342/175	0.46
47	23-40	Cecil Fisher	337/471	2.52
48	23-1	Susan Henderson	417/744	100.00
49	23-40.5	Joseph A. Bassett	474/485	10.91
50	23-4	Coastal Forest Resources Co.	491/498	154.51

Leases			
A	Jenkins Miller	K	Shiben Estates Inc.
B	WVDNR	L	Josephine Brast, et al
C	Marcella K. Harison	M	Louisa J. Fluharty
D	CSX Transportation, Inc.	N	Rachel Wright, et al
E	Tribune Resources Minerals, LLC	O	Israel Miller, et ux
F	Jeffrey T. Hayes	P	John R. McCoy, et al
G	Shiben Estates Inc.	Q	Antero Minerals, LLC
H	Tribune Resources Minerals, LLC	R	Antero Minerals, LLC
I	Tribune Resources Minerals, LLC	S	Coastal Forest Resources Co.
J	Thomas Cunningham, et ux	T	Shiben Estates Inc.



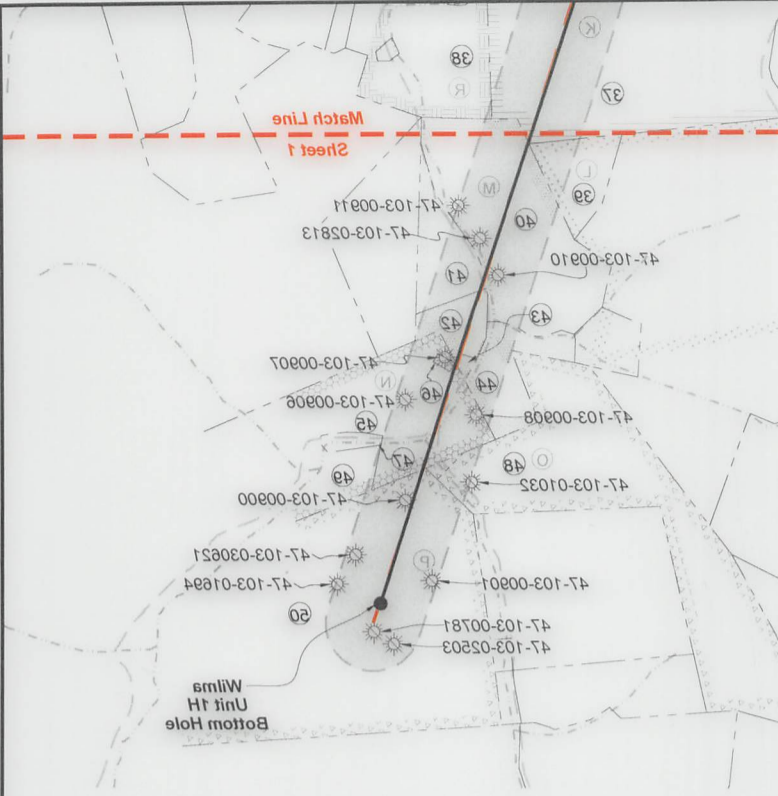
FILE NO: 231-34-G-23
 DRAWING NO: Wilma 1H As-Drilled Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: September 9 20 24
 OPERATOR'S WELL NO. Wilma 1H
 API WELL NO
 47 - 103 - 03613
 STATE COUNTY PERMIT

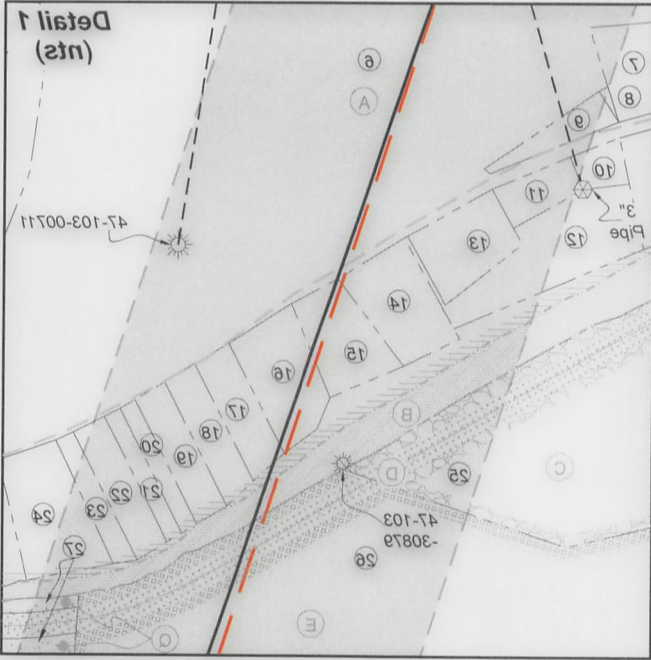
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green Kenneth E. & COUNTY: Wetzel 12/13/2024
 SURFACE OWNER: Vicky A. VanDyne ACREAGE: 42.33
 ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 629.58633
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,220' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,537' 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



ID	TM-Pair	Owner	BK-Pg	Acres
1	13-40	Kenneth E. & Vicki A. Vanduyne	3571204	42.33
2	13-19	Dallison Lumber Company	3571287	21.50
3	13-24	Kenneth E. & Vicki A. Vanduyne	3571204	14.50
4	13-39	Ruth E. Staley	2581283	3.12
5	13-84	Loraine Highley	WB81258	20.17
6	13-83	Emma Virginia Miller	133452	28.00
7	13-78	Edward G. Stewah	317878	1.30
8	13-75	Edward G. Stewah	317878	0.03
9	13-77	Gilbert H. Miller	WB32142	0.72
10	13-80	Nathaniel L. & Lisa D. Yorl	4024	0.33
11	13-81.1	Nathaniel L. & Lisa D. Yorl	4024	0.48
12	13-81.4	First Baptist Church of Pine Grove	431188	1.94
13	13-81.3	First Baptist Church of Pine Grove	431188	1.02
14	13-89	First Baptist Church of Pine Grove	352123	1.18
15	13-81	Earlene Nolan	268129	1.10
16	13-82	Amy Watts Warnick	488125	1.34
17	13-81	Dennis L. & Alex C. Hayes	471808	0.72
18	14-82	Michael T. & Mildred L. Quinn	483882	0.72
19	14-83	David Jack & Tonya Michelle Stout	370128	0.72
20	14-84	David Jack & Tonya Michelle Stout	370128	0.48
21	14-85	James Allen & Andrea N. Sell	333124	0.50
22	14-86	James Allen & Andrea N. Sell	333124	0.73
23	14-87	James Allen & Andrea N. Sell	333124	0.31
24	17-8	Phillip Dennison	442124	1.71
25	13-78	Sebastian L. & Marcella Hamson	281194	22.37
26	17-5	Coastal Forest Resources	444102	90.00
27	17-10	Coastal Forest Resources	444102	90.00
28	17-21	Pauline E. Hayes	420828	83.30
29	17-20	Heathland Forest Land Fund VII LP	431938	123.20
30	17-32	Pauline E. Hayes	420828	72.22
31	17-31	Heathland Forest Land Fund VII LP	431938	120.33
32	17-40	Heathland Forest Land Fund VII LP	431938	120.00
33	18-4	Barbara D. Cunningham	291112	212.80
34	17-81	Linda K. Ice & Harry G. Whitcorman Jr.	WB6825	126.00
35	20-46	Supplemental Needs Trust	471207	107.1
36	20-48	Charles R. Kuhn & William J. Strum	411888	30.00
37	20-12	Coastal Forest Resources Co.	444102	198.00
38	21-9	Kyle R. & Lauren Fluharty	439308	42.90
39	20-22	Coastal Forest Resources Co.	444102	12.20
40	21-2	Douglas & Debra Williams	385129	27.08
41	21-18.2	Ascent Resources Marcellus	448247	14.28
42	21-18	Christopher & Kimberly Campbell	405728	8.71
43	21-18	Christopher & Kimberly Campbell	478189	0.72
44	21-12.1	Debra Williams	398447	2.00
45	21-21	Santford Joe Harpitt	423709	83.00
46	21-19	Roger L. & Karen S. Fluharty	342125	0.48
47	23-40	Cecil Fisher	337471	2.22
48	23-1	Susan Henderson	417144	100.00
49	23-40.5	Joseph A. Bassett	474482	10.91
50	23-4	Coastal Forest Resources Co.	491898	124.21

Lessee	Acres	Owner
A	K	Jenkins Miller
B	L	WVDNR
C	M	Marcella K. Hamson
D	N	CSX Transportation, Inc.
E	O	Tribune Resources Minerals, LLC
F	P	Jeffrey T. Hayes
G	Q	Shiben Estates Inc.
H	R	Tribune Resources Minerals, LLC
I	S	Coastal Forest Resources Co.
J	T	Thomas Cunningham, et ux
		Shiben Estates Inc.



WELL OPERATOR: Antero Resources Corporation
ADDRESS: 1615 Winkoop Street, Denver, CO 80202

DESIGNATED AGENT: Kevin Ellis
ADDRESS: 232 White Oaks Blvd, Bridgeport, WV 26330

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

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled

ROYALTY OWNER: Antero Minerals, LLC
SURFACE OWNER: Vicki A. Vanduyne
DISTRICT: Kenneth E. & Vicki A. Vanduyne

LOCATION: ELEVATION: As-Built: 1248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
COUNTY: Wetzel

ACREAGE: 42.33

LEASE NO: ACREAGE: 629.58633

DATE: September 9 2024
OPERATOR'S WELL NO: Wilms 1H
API WELL NO: 47-103-03613
STATE COUNTY PERMIT

PROVEN SOURCE OF ELEVATION: WVDOT, Harmsville, WV
MINIMUM DEGREE OF ACCURACY: 2m
SCALE: 1" = 200'

DRAWING NO: Wilms 1H As-Drilled Plat
FILE NO: 231-34-G-23

12/13/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	04/06/2024
Job End Date:	05/23/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03613-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	WILMA Unit 1H
Latitude:	39.567686
Longitude:	-80.713817
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7218
Total Base Water Volume (gal)*:	33678857.5
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					
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					

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A handwritten signature in blue ink, appearing to be "JF", is written over the date.

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.							
			Water	7732-18-5	100.00000	88.45407	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.43560	None
			Water	7732-18-5	100.00000	0.04202	None
			Complex amine compound	Proprietary	60.00000	0.02032	None
			Guar gum	9000-30-0	100.00000	0.01324	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	0.01175	None
			Hydrotreated distillate	Proprietary	30.00000	0.01016	None
			Proprietary	Proprietary	20.00000	0.00761	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00587	None
			Hydrochloric acid	7647-01-0	30.00000	0.00330	None
			Ammonium chloride	12125-02-9	5.00000	0.00267	None
			Glutaraldehyde	111-30-8	30.00000	0.00207	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00169	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00169	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00098	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00098	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00053	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00053	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00034	None
			Ammonium persulfate	7727-54-0	100.00000	0.00021	None
			Methanol	67-56-1	100.00000	0.00020	None
			Citric acid	77-92-9	1.00000	0.00007	None

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			Oxylated phenolic resin	Proprietary	30.00000	0.00006	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00006	None
			Modified thiourea polymer	Proprietary	30.00000	0.00006	None
			Propargyl alcohol	107-19-7	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	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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