

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

API 47-095-02826 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Thin Air Field/Pool Name -----
Farm name Clara Suzanne Wallace & Rickie Wallace Well Number Gothic Unit 3H
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 4375445m Easting 517830m
Landing Point of Curve Northing 4375253.39m Easting 517569.49m
Bottom Hole Northing 4370296m Easting 519284m

Elevation (ft) 1200' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine

Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Air - Foam & 4% KCL

Mud - Polymer

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Date permit issued 11/3/2022 Date drilling commenced 12/16/2022 Date drilling ceased 3/28/2023
Date completion activities began 5/26/2023 Date completion activities ceased 6/28/2023
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 328' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1660' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

04/12/2024

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10/20/23

API 47-095 - 02826 Farm name Clara Suzanne Wallace & Rickie Wallace Well number Gothic Unit 3H

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"	448'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3527'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	24641'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6949'		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	259 sx	15.6	1.18	306	0'	8 Hrs.
Surface	Class A	739 sx	15.6	1.20	887	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1201 sx	15.6	1.20	1441	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4011 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	5054	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 24641' MD, 6940' TVD (BHL), 6941' TVD (Deepest Point Drilled) Loggers TD (ft) 24641' MD
Deepest formation penetrated Marcellus Plug back to (ft) N/A
Plug back procedure N/A

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Kick off depth (ft) 6210'

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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

04/12/2024
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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6834' (TOP)</u>	<u>TVD</u>	<u>7176' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

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 12479.36 mcfpd Oil 419.63 bpd NGL --- bpd Water 794.33 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>		<u>BOTTOM</u>		<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT</u>	<u>DEPTH IN FT</u>	<u>DEPTH IN FT</u>	<u>DEPTH IN FT</u>	
	<u>NAME</u>	<u>TVD</u>	<u>MD</u>	<u>MD</u>	

***PLEASE SEE ATTACHED EXHIBIT 3**

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Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Schlumberger US Land
Address 3600 Briarpark Drive City Houston State TX Zip 77042

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature [Signature] Title Permitting Agent Date 10/13/23

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

[Handwritten Signature]
[Handwritten Date]
04/12/2024

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/26/2023	24517	24474	60	Marcellus
2	5/27/2023	24435.95785	24272.7471	60	Marcellus
3	5/27/2023	24237.70498	24074.4943	60	Marcellus
4	5/27/2023	24039.45211	23876.2414	60	Marcellus
5	5/28/2023	23841.19923	23677.9885	60	Marcellus
6	5/28/2023	23642.94636	23479.7356	60	Marcellus
7	5/28/2023	23444.69349	23281.4828	60	Marcellus
8	5/29/2023	23246.44061	23083.2299	60	Marcellus
9	5/29/2023	23048.18774	22884.977	60	Marcellus
10	5/30/2023	22849.93487	22686.7241	60	Marcellus
11	5/30/2023	22651.68199	22488.4713	60	Marcellus
12	5/30/2023	22453.42912	22290.2184	60	Marcellus
13	5/31/2023	22255.17625	22091.9655	60	Marcellus
14	5/31/2023	22056.92337	21893.7126	60	Marcellus
15	5/31/2023	21858.6705	21695.4598	60	Marcellus
16	6/1/2023	21660.41762	21497.2069	60	Marcellus
17	6/1/2023	21462.16475	21298.954	60	Marcellus
18	6/1/2023	21263.91188	21100.7011	60	Marcellus
19	6/2/2023	21065.659	20902.4483	60	Marcellus
20	6/2/2023	20867.40613	20704.1954	60	Marcellus
21	6/2/2023	20669.15326	20505.9425	60	Marcellus
22	6/2/2023	20470.90038	20307.6897	60	Marcellus
23	6/3/2023	20272.64751	20109.4368	60	Marcellus
24	6/3/2023	20074.39464	19911.1839	60	Marcellus
25	6/3/2023	19876.14176	19712.931	60	Marcellus
26	6/3/2023	19677.88889	19514.6782	60	Marcellus
27	6/3/2023	19479.63602	19316.4253	60	Marcellus
28	6/3/2023	19281.38314	19118.1724	60	Marcellus
29	6/4/2023	19083.13027	18919.9195	60	Marcellus
30	6/4/2023	18884.87739	18721.6667	60	Marcellus
31	6/4/2023	18686.62452	18523.4138	60	Marcellus
32	6/4/2023	18488.37165	18325.1609	60	Marcellus
33	6/4/2023	18290.11877	18126.908	60	Marcellus
34	6/5/2023	18091.8659	17928.6552	60	Marcellus
35	6/5/2023	17893.61303	17730.4023	60	Marcellus
36	6/5/2023	17695.36015	17532.1494	60	Marcellus
37	6/5/2023	17497.10728	17333.8966	60	Marcellus
38	6/5/2023	17298.85441	17135.6437	60	Marcellus
39	6/5/2023	17100.60153	16937.3908	60	Marcellus
40	6/6/2023	16902.34866	16739.1379	60	Marcellus
41	6/6/2023	16704.09579	16540.8851	60	Marcellus
42	6/6/2023	16505.84291	16342.6322	60	Marcellus
43	6/6/2023	16307.59004	16144.3793	60	Marcellus
44	6/6/2023	16109.33716	15946.1264	60	Marcellus
45	6/6/2023	15911.08429	15747.8736	60	Marcellus
46	6/6/2023	15712.83142	15549.6207	60	Marcellus
47	6/7/2023	15514.57854	15351.3678	60	Marcellus
48	6/7/2023	15316.32567	15153.1149	60	Marcellus
49	6/7/2023	15118.0728	14954.8621	60	Marcellus
50	6/7/2023	14919.81992	14756.6092	60	Marcellus
51	6/7/2023	14721.56705	14558.3563	60	Marcellus
52	6/7/2023	14523.31418	14360.1034	60	Marcellus
53	6/8/2023	14325.0613	14161.8506	60	Marcellus
54	6/8/2023	14126.80843	13963.5977	60	Marcellus
55	6/8/2023	13928.55556	13765.3448	60	Marcellus
56	6/8/2023	13730.30268	13567.092	60	Marcellus
57	6/8/2023	13532.04981	13368.8391	60	Marcellus
58	6/8/2023	13333.79693	13170.5862	60	Marcellus
59	6/8/2023	13135.54406	12972.3333	60	Marcellus
60	6/9/2023	12937.29119	12774.0805	60	Marcellus
61	6/9/2023	12739.03831	12575.8276	60	Marcellus
62	6/9/2023	12540.78544	12377.5747	60	Marcellus
63	6/9/2023	12342.53257	12179.3218	60	Marcellus
64	6/9/2023	12144.27969	11981.069	60	Marcellus
65	6/9/2023	11946.02682	11782.8161	60	Marcellus
66	6/9/2023	11747.77395	11584.5632	60	Marcellus
67	6/10/2023	11549.52107	11386.3103	60	Marcellus
68	6/10/2023	11351.2682	11188.0575	60	Marcellus
69	6/10/2023	11153.01533	10989.8046	60	Marcellus
70	6/10/2023	10954.76245	10791.5517	60	Marcellus
71	6/10/2023	10756.50958	10593.2989	60	Marcellus
72	6/10/2023	10558.2567	10395.046	60	Marcellus
73	6/11/2023	10360.00383	10196.7931	60	Marcellus
74	6/11/2023	10161.75096	9998.54023	60	Marcellus
75	6/11/2023	9963.498084	9800.28736	60	Marcellus
76	6/11/2023	9765.245211	9602.03448	60	Marcellus
77	6/11/2023	9566.992337	9403.78161	60	Marcellus
78	6/11/2023	9368.739464	9205.52874	60	Marcellus
79	6/11/2023	9170.48659	9007.27586	60	Marcellus
80	6/12/2023	8972.233716	8809.02299	60	Marcellus
81	6/12/2023	8773.980843	8610.77011	60	Marcellus
82	6/12/2023	8575.727969	8412.51724	60	Marcellus
83	6/12/2023	8377.475096	8214.26437	60	Marcellus
84	6/12/2023	8179.222222	8016.01149	60	Marcellus
85	6/12/2023	7980.969349	7817.75862	60	Marcellus
86	6/13/2023	7782.716475	7619.50575	60	Marcellus
87	6/13/2023	7584.463602	7421.25287	60	Marcellus

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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	5/26/2023	78.5	10354	7208	4665	174840	5193.2198	N/A
2	5/27/2023	88.47	10459	6016	4609	413850	7732.1455	N/A
3	5/27/2023	86.16	10329	6712	4420	407870	7633.4321	N/A
4	5/27/2023	89.02	10585	6848	3845	397770	7074.5848	N/A
5	5/28/2023	90.06	10629	4864	3871	396370	7098.8307	N/A
6	5/28/2023	89.00736	10488.66	5183.8	4130.949	395800	7164.3236	N/A
7	5/28/2023	88.72	10538	6120	3994	411940	7242.4121	N/A
8	5/29/2023	89.02	10212	4727	3893	411990	7437.6476	N/A
9	5/29/2023	79.99542	9759.371	3461.14	3858.67	397010	7099.4155	N/A
10	5/30/2023	86.55	10260	6309	4652	396120	7029.9879	N/A
11	5/30/2023	95.57748	10437.08	6373.32	4204.461	398270	7035.9138	N/A
12	5/30/2023	88.66	9945	6760	4424	393170	6925.6826	N/A
13	5/31/2023	87.65	10458	7630	3769	399920	7047.054	N/A
14	5/31/2023	96.98459	10475.46	5597.28	4274.317	393020	6994.7645	N/A
15	5/31/2023	94.33	10062	6036	4402	395310	7001.5764	N/A
16	6/1/2023	95.35	10246	7140	3908	411040	7186.9705	N/A
17	6/1/2023	97.30612	10502.47	3864.4	4062.696	409480	7157.669	N/A
18	6/1/2023	95.27015	10481.45	4021.56	4099.518	398930	6942.9883	N/A
19	6/2/2023	94.98	10429	6643	4143	417130	7271.1217	N/A
20	6/2/2023	96.09129	10684.96	6186.77	4225.293	392230	6932.3448	N/A
21	6/2/2023	90.07	9747	5762	4173	399640	6911.5833	N/A
22	6/2/2023	93.04	10080	5815	4177	398400	7042.9707	N/A
23	6/3/2023	94.46	10033	5909	4350	396500	6886.1567	N/A
24	6/3/2023	96.97846	9901.902	5627.2	4520.417	415890	7027.1233	N/A
25	6/3/2023	96.78	10518	6183	4429	410750	6974.2186	N/A
26	6/3/2023	96.29105	10136.01	6588.38	4474.651	401250	7088.6533	N/A
27	6/3/2023	97.383	10047.7	4699.7	4271.869	393050	6850.7724	N/A
28	6/3/2023	97.52	9942	5531	4248	418640	7234.4771	N/A
29	6/4/2023	95.11	9724	5766	3994	412620	7225.331	N/A
30	6/4/2023	95.28849	9641.564	4514.04	4256.491	399830	6872.8369	N/A
31	6/4/2023	93.61	9791	6170	4311	410420	7357.2655	N/A
32	6/4/2023	97.87967	9989.951	6083.89	4106.257	414290	7115.8862	N/A
33	6/4/2023	95.64	9456	5814	4027	391220	7214.1762	N/A
34	6/5/2023	96.57	9767	6220	4161	411530	7119.1031	N/A
35	6/5/2023	97.28	9833	5676	4043	412130	7083.8224	N/A
36	6/5/2023	97.8	9729	4153	3952	392180	6868.8362	N/A
37	6/5/2023	97.65	9851	5990	4112	393130	7034.279	N/A
38	6/5/2023	97.75	10081	5798	3969	396290	6941.6631	N/A
39	6/5/2023	96.99	9866	5743	3738	396920	7040.4519	N/A
40	6/6/2023	97.34	9793	6049	3756	395560	7032.221	N/A
41	6/6/2023	97.54	9794	5542	3684	400170	6957.0002	N/A
42	6/6/2023	98.25	9493	5855	3813	394700	6870.1752	N/A
43	6/6/2023	98.36	9721	5719	3839	400250	6953.0488	N/A
44	6/6/2023	97.79	9744	5497	4066	413110	7195.8643	N/A
45	6/6/2023	97.03	9496	4201	3892	398040	6964.4286	N/A
46	6/6/2023	96.57975	9726.693	6125.77	3804.428	390970	6633.5767	N/A
47	6/7/2023	97.46057	9826.423	6154.44	3650.055	391820	6944.5476	N/A
48	6/7/2023	97.72	9891	5036	3825	396560	6910.9712	N/A
49	6/7/2023	98.3	9660	5998	3913	409230	7003.7964	N/A
50	6/7/2023	98.33337	9931.421	5806.22	3916.883	395800	6982.8105	N/A
51	6/7/2023	98.20293	9527.75	5911.08	3801.241	392530	6771.7288	N/A
52	6/7/2023	96.98	9097	5992	3892	395000	6808.266	N/A
53	6/8/2023	97.03447	9422.299	5943.24	3741	396510	6919.1176	N/A
54	6/8/2023	97.96319	9459.921	6428.92	4102.522	398510	7017.6717	N/A
55	6/8/2023	98.32	9375	6351	3720	395940	6806.5714	N/A
56	6/8/2023	97.94174	9070.442	6013.97	3647.058	411870	7022.0326	N/A
57	6/8/2023	97.84796	9220.796	6460.15	3729.187	394700	6630.2488	N/A
58	6/8/2023	98.15891	9040.854	6119.27	3927.295	392660	6727.8376	N/A
59	6/8/2023	97.92	9116	6335	4032	395430	6725.4338	N/A
60	6/9/2023	98.11	8846	5988	3788	397140	7002.9269	N/A
61	6/9/2023	97.66901	8755.772	5754.02	4011.265	396840	6864.3276	N/A
62	6/9/2023	97.96239	8703.866	5839.59	4143.848	396970	6814.4431	N/A
63	6/9/2023	98.0509	8834.833	5930.74	4144.67	398440	6983.8024	N/A
64	6/9/2023	98.22182	8626.123	5943.38	4021.131	397520	6885.1869	N/A
65	6/9/2023	97.32685	8524.2	6303.08	4025.924	396690	7181.2367	N/A
66	6/9/2023	97.70887	8550.051	5920.51	4084.267	396370	6787.4286	N/A
67	6/10/2023	97.44125	8456.835	5563.31	3823.29	396150	6714.5326	N/A
68	6/10/2023	97.27331	8323.888	5634.3	3786.106	397780	6715.009	N/A
69	6/10/2023	98.02774	8477.84	6010.09	3891.844	412720	7070.2845	N/A
70	6/10/2023	75.79945	7482.977	6267.48	3861.262	393790	7809.8857	N/A
71	6/10/2023	97.92823	8401.281	5985.36	4098.79	394700	6838.9274	N/A
72	6/10/2023	97.17385	9474.035	5830.92	4011.141	395680	6854.9838	N/A
73	6/11/2023	96.60384	8441.404	6296.94	4079.262	407910	7006.9893	N/A
74	6/11/2023	96.91783	8762.023	5968.43	3884.522	399530	6724.2948	N/A
75	6/11/2023	96.0772	8099.229	5888.57	4190.518	398220	8214.1062	N/A
76	6/11/2023	97.86	8786	5881	4213	392330	6670.7712	N/A
77	6/11/2023	98.42991	8469.541	6137.4	3929.878	391580	6738.3598	N/A
78	6/11/2023	97.3854	8413.209	6120.92	4364.115	395580	6783.854	N/A
79	6/11/2023	97.27717	8225.569	6322.72	4129.643	415061	6910.4619	N/A
80	6/12/2023	97.71503	8069.57	6294.32	3661.945	400060	6665.5493	N/A
81	6/12/2023	98.12095	8070.897	6427.23	3687.823	413480	6848.0652	N/A
82	6/12/2023	97.44661	7980.849	6007.19	3973.802	411150	6819.0888	N/A
83	6/12/2023	97.57103	7983.62	5982.49	3855.279	393950	6716.2881	N/A
84	6/12/2023	98.31963	7898.894	4663.37	3769.142	393270	6464.1745	N/A
85	6/12/2023	97.06579	7806.784	6024.06	3871.112	396330	6788.2371	N/A
86	6/13/2023	97.76039	7664.024	5694.44	3769.97	397360	6675.9764	N/A
87	6/13/2023	98.17966	7589.458	5308.02	3866.468	411420	6707.5864	N/A
AVERAGE		96.4	9,422	5,854	4,029	34,624,121	606,226	0

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Shaly Siltstone, tr LS	91	275	91	275
Sandy Siltstone, Coal	275	335	275	335
Silty Sandstone	335	425	335	425
Shaly Siltstone, occ LS	425	635	425	635
Sandy Siltstone, occ LS	635	965	635	965
Shaly Siltstone, occ SS	965	1,025	965	1,025
Shaly Siltstone	1,025	1,435	1,025	1,435
Sandy Siltstone, occ Shale	1,435	1,525	1,435	1,525
Silty Sandstone, tr coal	1,525	1,615	1,525	1,615
Silty Sandstone, coal, tr shale	1,615	1,735	1,615	1,735
Silty Sandstone, occ shale	1,735	1,885	1,735	1,885
Shaly Sandstone, coal, occ slst	1,885	2,125	1,885	2,125
Silty Sandstone, coal, occ Shale	2,125	2,102	2,125	2,121
Big Lime	2,127	2,901	2,121	2,934
Fifty Foot Sandstone	2,901	2,962	2,909	2,996
Gordon	2,962	3,208	2,971	3,246
Fifth Sandstone	3,208	3,471	3,221	3,512
Bayard	3,471	4,156	3,487	4,208
Speechley	4,156	4,459	4,183	4,516
Balltown	4,459	4,908	4,491	4,973
Bradford	4,908	5,172	4,948	5,243
Benson	5,172	5,393	5,218	5,467
Alexander	5,393	6,668	5,442	6,809
Sycamore	6,528	6,643	6,639	6,784
Middlesex	6,643	6,741	6,784	6,935
Burkett	6,741	6,770	6,935	6,992
Tully	6,770	6,834	6,992	7,176
Marcellus	6,834	NA	7,176	NA

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LATITUDE 39°32'30" 294'

LATITUDE 39°30'00"

7,323' TO BOTTOM HOLE

6,570' TO BOTTOM HOLE

4,835'

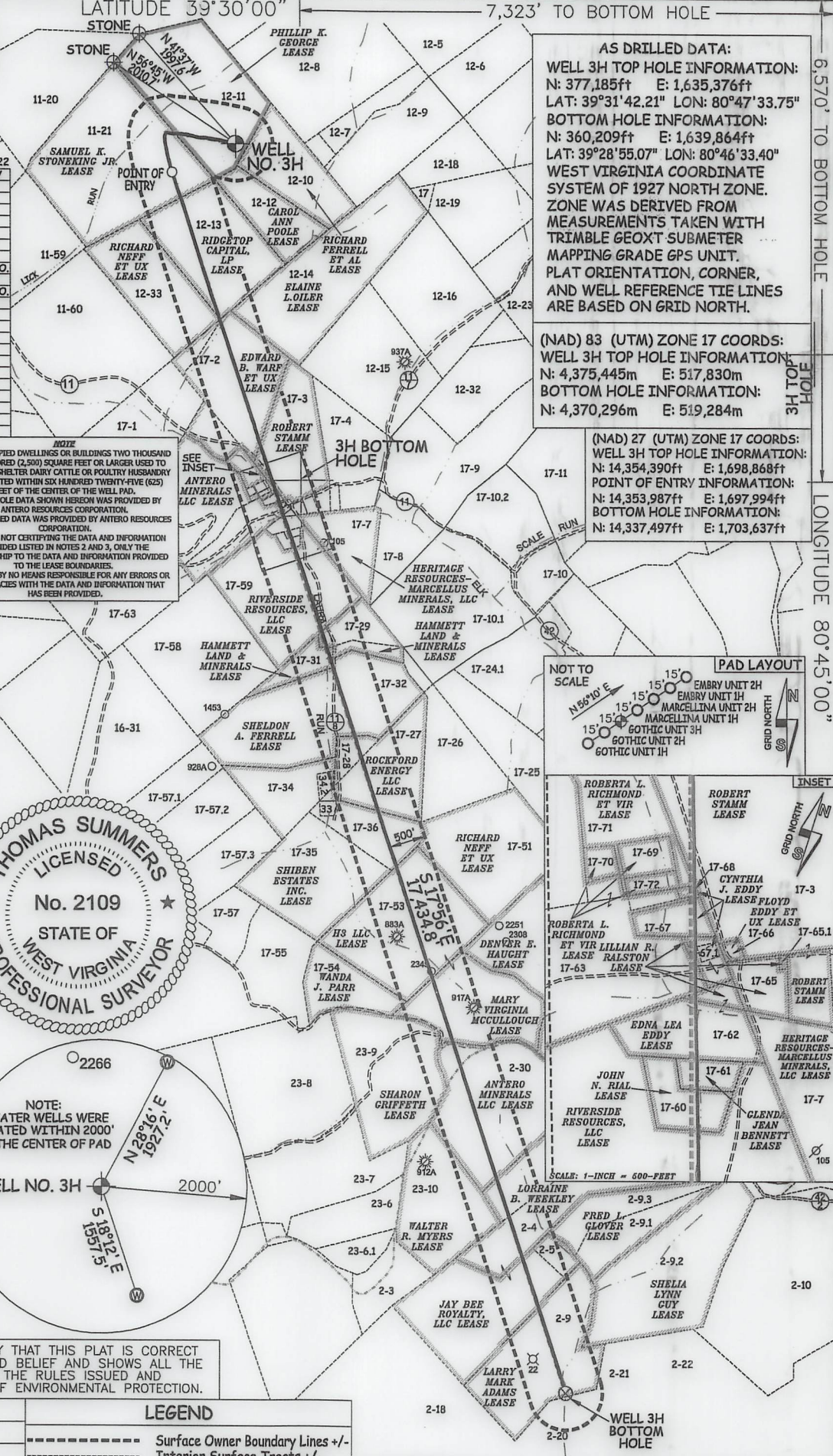
LONGITUDE 80°47'30"

LONGITUDE 80°45'00"

**Antero Resources Corporation
Well No. Gothic Unit 3H**

ELLSWORTH DISTRICT - TYLER COUNTY

11-20	EDWARD QUIRK
11-21	EDWARD QUIRK
11-22	NILE HARRIS
11-59	EDWARD QUIRK
11-60	MICHAEL MARTIN
12-5	ROSALIE HENRY
12-6	ANTERO MIDSTREAM LLC
12-7	COASTAL FOREST RESOURCES CO.
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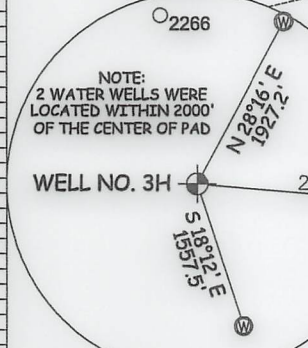
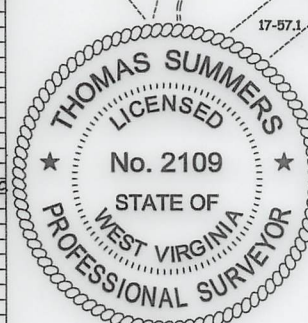


AS DRILLED DATA:
WELL 3H TOP HOLE INFORMATION:
 N: 377,185ft E: 1,635,376ft
 LAT: 39°31'42.21" LON: 80°47'33.75"
BOTTOM HOLE INFORMATION:
 N: 360,209ft E: 1,639,864ft
 LAT: 39°28'55.07" LON: 80°46'33.40"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD 83 (UTM) ZONE 17 COORDS:
WELL 3H TOP HOLE INFORMATION:
 N: 4,375,445m E: 517,830m
BOTTOM HOLE INFORMATION:
 N: 4,370,296m E: 519,284m

(NAD 27 (UTM) ZONE 17 COORDS:
WELL 3H TOP HOLE INFORMATION:
 N: 14,354,390ft E: 1,698,868ft
POINT OF ENTRY INFORMATION:
 N: 14,353,987ft E: 1,697,994ft
BOTTOM HOLE INFORMATION:
 N: 14,337,497ft E: 1,703,637ft

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.
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JOB # 20-011WA
 DRAWING # GOTHIC3HAD
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS.
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND
 - - - - - Surface Owner Boundary Lines +/-
 - - - - - Interior Surface Tracts +/-
 ○ - - - - - Proposed Well Path
 ○ - - - - - As Drilled Well Path

THOMAS SUMMERS P.S. 2109
 DATE 10/02/23
 OPERATOR'S WELL# GOTHIC UNIT #3H



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 47 095 02826
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,200' - AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE PORTER FALLS 7.5' (TH) - SHIRLEY 7.5' (BH) DISTRICT ELLSWORTH COUNTY TYLER
 SURFACE OWNER CLARA SUZANNE WALLACE & RICKIE WALLACE ACREAGE 60 ACRES +/-
 OIL & GAS ROYALTY OWNER PHILLIP K. GEORGE LEASE ACREAGE 60 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 6,940' TVD 24,641' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
 ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
 DENVER, CO 80202 BRIDGEPORT, WV 26330

04/12/2024

LATITUDE 39°32'30" 294'

LATITUDE 39°30'00"

7,323' TO BOTTOM HOLE

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Antero Resources Corporation Well No. Gothic Unit 3H

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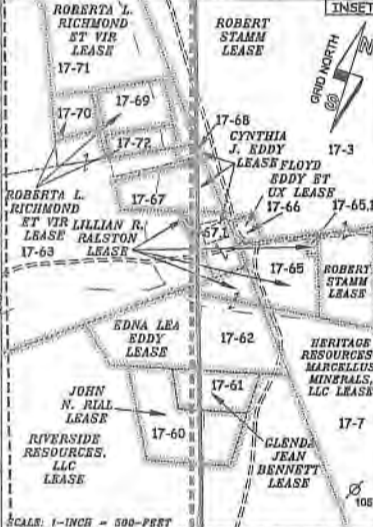
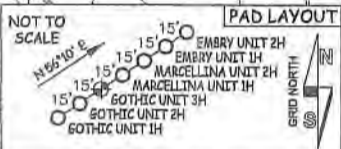
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JOB # 20-011WA	LEGEND
DRAWING # GOTHIC3HAD	Surface Owner Boundary Lines +/-
SCALE 1" = 2000'	Interior Surface Tracts +/-
MINIMUM DEGREE OF ACCURACY SUBMETER	Proposed Well Path
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	As Drilled Well Path
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	THOMAS SUMMERS P.S. 2109
	DATE 10/02/23
	OPERATOR'S WELL# GOTHIC UNIT #3H



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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 ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
 FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

04/12/2024

Handwritten signature or initials.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/26/2023
Job End Date:	6/13/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02826-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GOTHIC UNIT 3H
Latitude:	39.52839200
Longitude:	-80.79270600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,502
Total Base Water Volume (gal):	27,059,199
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Produced Water	Halliburton	Base Fluid	Water	7732-18-5	100.00000	86.37745	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.17853	

AM

Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
FDP-S1464-22	Halliburton	Friction Reducer					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
FDP-S1463-22	Halliburton	Friction Reducer					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			

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Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Crystalline silica, quartz	14808-60-7	100.00000	13.41307	
			Hydrochloric acid	7647-01-0	30.00000	0.03907	
			Complex amine compound	Proprietary	60.00000	0.03862	
			Hydrotreated distillate	Proprietary	30.00000	0.01931	
			Guar gum	9000-30-0	100.00000	0.00400	
			Ammonium chloride	12125-02-9	5.00000	0.00333	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00333	
			Ethoxylated alcohol	Proprietary	5.00000	0.00333	
			Glutaraldehyde	111-30-8	30.00000	0.00251	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00067	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00067	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.00065	
			Polyacrylate	Proprietary	30.00000	0.00065	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Methanol	67-56-1	100.00000	0.00024	
			INorganic salt	Proprietary	10.00000	0.00022	
			Ammonium persulfate	7727-54-0	100.00000	0.00009	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00007	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	

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			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	
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* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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

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