

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

API 47 - 017 - 06965 County Doddridge District TH: New Milton BH: Cove
Quad New Milton Pad Name Haught Field/Pool Name -----
Farm name Susan Haught Gido, et al Well Number Castilow 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 4337638.519m Easting 527514.754m
Landing Point of Curve Northing 4337589.66 Easting 526972.40
Bottom Hole Northing 4333144.355m Easting 528362.988m

Elevation (ft) 1194' 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 10/2/2023 Date drilling commenced 11/13/2023 Date drilling ceased 2/19/2024
Date completion activities began 12/1/2024 Date completion activities ceased 1/26/2025
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 1701' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2406' 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

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Reviewed by:

[Signature]
5-28-25 **02/06/2026**

API 47- 017 - 06965 Farm name Susan Haught Gido, et al Well number Castilow Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/fl	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"	378'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3480'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23461'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	7581'		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	250 sx	15.6	1.18	295	0'	8 Hrs.
Surface	Class A	335 sx	15.6	1.20	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1189 sx	15.6	1.20	1427	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3951 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.26 (Tail)	4978	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23461' MD, 7135' TVD (BHL), 7273' (Deepest Point Drilled) Loggers TD (ft) 23461' MD

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

Plug back procedure N/A

Kick off depth (ft) 6341'

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 _____

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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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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>7166' (TOP)</u>	<u>TVD</u>	<u>7568' (TOP) MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2681 psi Bottom Hole --- psi DURATION OF TEST -- hrs

OPEN FLOW Gas 13782.09 mcfpd Oil 97.78 bpd NGL -- bpd Water 844.77 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 NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	

***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 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 Carly Wren Telephone 303-357-7373
Signature Carly Wren Title Permitting Agent Date 4/14/2025

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

APPROVED *[Signature]* 02/06/2026
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API 47-017-00955 Fern Name Susan Haight Gido, et al Well Number Castflow Unit 1H
Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/1/2024	23331	23266.9	36	Marcellus
2	12/1/2024	23248.18918	23082.6351	36	Marcellus
3	12/3/2024	23047.12424	22881.5701	36	Marcellus
4	12/3/2024	22846.05931	22680.5052	36	Marcellus
5	12/4/2024	22644.99437	22479.4403	36	Marcellus
6	12/4/2024	22443.92944	22278.3753	36	Marcellus
7	12/5/2024	22242.8645	22077.3104	36	Marcellus
8	12/5/2024	22041.79957	21876.2455	36	Marcellus
9	12/5/2024	21840.73463	21675.1805	36	Marcellus
10	12/6/2024	21639.6697	21474.1156	36	Marcellus
11	12/7/2024	21438.60476	21273.0506	36	Marcellus
12	12/7/2024	21237.53983	21071.9857	36	Marcellus
13	12/8/2024	21036.47489	20870.9208	36	Marcellus
14	12/8/2024	20835.40996	20669.8558	36	Marcellus
15	12/8/2024	20634.34502	20468.7909	36	Marcellus
16	12/9/2024	20433.28009	20267.725	36	Marcellus
17	12/9/2024	20232.21515	20066.661	36	Marcellus
18	12/10/2024	20031.15022	19865.5961	36	Marcellus
19	12/10/2024	19830.08528	19664.5312	36	Marcellus
20	12/10/2024	19629.02035	19463.4662	36	Marcellus
21	12/11/2024	19427.95541	19262.4013	36	Marcellus
22	12/11/2024	19226.89048	19061.3364	36	Marcellus
23	12/12/2024	19025.82554	18860.2714	36	Marcellus
24	12/12/2024	18824.76061	18659.2065	36	Marcellus
25	12/12/2024	18623.69567	18458.1416	36	Marcellus
26	12/13/2024	18422.63074	18257.0766	36	Marcellus
27	12/13/2024	18221.5658	18056.0117	36	Marcellus
28	12/14/2024	18020.50087	17854.9468	36	Marcellus
29	12/14/2024	17819.43593	17653.8818	36	Marcellus
30	12/14/2024	17618.371	17452.8169	36	Marcellus
31	12/15/2024	17417.30606	17251.7519	36	Marcellus
32	12/15/2024	17216.24113	17050.687	36	Marcellus
33	12/15/2024	17015.17619	16849.6221	36	Marcellus
34	12/16/2024	16814.11126	16648.5571	36	Marcellus
35	12/16/2024	16613.04632	16447.4922	36	Marcellus
36	12/16/2024	16411.98139	16246.4273	36	Marcellus
37	12/17/2024	16210.91645	16045.3623	36	Marcellus
38	12/17/2024	16009.85152	15844.2974	36	Marcellus
39	12/17/2024	15808.78658	15643.2325	36	Marcellus
40	12/18/2024	15607.72165	15442.1675	36	Marcellus
41	12/18/2024	15406.65671	15241.1026	36	Marcellus
42	12/19/2024	15205.59177	15040.0377	36	Marcellus
43	12/19/2024	15004.52684	14838.9727	36	Marcellus
44	12/19/2024	14803.4619	14637.9078	36	Marcellus
45	12/20/2024	14602.39697	14436.8429	36	Marcellus
46	12/20/2024	14401.33203	14235.7779	36	Marcellus
47	12/20/2024	14200.2671	14034.713	36	Marcellus
48	12/21/2024	13999.20216	13833.6481	36	Marcellus
49	12/21/2024	13798.13723	13632.5831	36	Marcellus
50	12/21/2024	13597.07229	13431.5182	36	Marcellus
51	12/22/2024	13396.00736	13230.4532	36	Marcellus
52	12/22/2024	13194.94242	13029.3883	36	Marcellus
53	12/23/2024	12993.87749	12828.3234	36	Marcellus
54	12/23/2024	12792.81255	12627.2584	36	Marcellus
55	12/24/2024	12591.74762	12426.1935	36	Marcellus
56	12/24/2024	12390.68268	12225.1286	36	Marcellus
57	12/24/2024	12189.61775	12024.0636	36	Marcellus
58	12/25/2024	11988.55281	11822.9987	36	Marcellus
59	12/25/2024	11787.48788	11621.9338	36	Marcellus
60	12/25/2024	11586.42294	11420.8688	36	Marcellus
61	12/26/2024	11385.35801	11219.8039	36	Marcellus
62	12/26/2024	11184.29307	11018.739	36	Marcellus
63	12/26/2024	10983.22814	10817.674	36	Marcellus
64	12/27/2024	10782.1632	10616.6091	36	Marcellus
65	12/27/2024	10581.09827	10415.5442	36	Marcellus
66	12/27/2024	10380.03333	10214.4792	36	Marcellus
67	12/28/2024	10178.9684	10013.4143	36	Marcellus
68	12/28/2024	9977.903463	9812.34935	36	Marcellus
69	12/28/2024	9776.838528	9611.28442	36	Marcellus
70	12/29/2024	9575.773593	9410.21948	36	Marcellus
71	12/29/2024	9374.708658	9209.15455	36	Marcellus
72	12/29/2024	9173.643723	9008.08961	36	Marcellus
73	12/29/2024	8972.578788	8807.02468	36	Marcellus
74	12/29/2024	8771.513853	8605.95974	36	Marcellus
75	12/30/2024	8570.448918	8404.89481	36	Marcellus
76	12/30/2024	8369.383983	8203.82987	36	Marcellus
77	12/30/2024	8168.319048	8002.76494	36	Marcellus
78	12/30/2024	7967.254113	7801.7	36	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	rsD (PSI)	Amount of Proppant (Tons)	Amount of Water (bbls)	Amount of Nitrogen/ other (lbs)
1	12/1/2024	73.0	8147.7	5078.4	5119.0	167320	11420.5	N/A
2	12/2/2024	94.1	10057.1	10315.7	5088.0	415900	7924.0	N/A
3	12/3/2024	92.8	10172.2	6073.8	4550.0	403280	7531.0	N/A
4	12/3/2024	92.2	10231.1	7749.3	4612.9	417880	7630.3	N/A
5	12/4/2024	97.1	10185.5	6800.9	4939.0	399500	7303.2	N/A
6	12/4/2024	94.6	10081.0	10894.0	5415.0	395600	7290.2	N/A
7	12/5/2024	94.7	10029.9	6545.7	4641.5	423020	7682.2	N/A
8	12/5/2024	97.6	10083.5	7728.0	4965.0	396610	7051.5	N/A
9	12/5/2024	97.0	9942.4	6561.5	4851.8	393190	7151.0	N/A
10	12/6/2024	97.2	10116.9	6918.9	4551.0	419900	7189.5	N/A
11	12/7/2024	94.1	10192.2	5961.4	4912.0	418340	7343.2	N/A
12	12/7/2024	96.3	10132.8	6468.9	4955.0	402950	6958.2	N/A
13	12/8/2024	97.0	10602.4	6790.9	4779.0	417800	7199.6	N/A
14	12/8/2024	96.8	10374.3	7289.4	5108.0	396270	6885.5	N/A
15	12/8/2024	95.9	9968.0	7684.0	5165.5	398100	6934.4	N/A
16	12/9/2024	95.4	10003.5	6546.9	5134.6	399500	7199.4	N/A
17	12/9/2024	97.7	10205.9	6002.7	4864.0	401660	6969.5	N/A
18	12/10/2024	96.2	9938.0	7056.3	4801.9	416280	7404.8	N/A
19	12/10/2024	97.3	9974.2	6994.4	4870.5	416200	7298.0	N/A
20	12/10/2024	94.2	9877.9	7000.2	5024.0	412720	7132.4	N/A
21	12/11/2024	95.3	9972.3	6995.8	4875.6	399630	7124.7	N/A
22	12/11/2024	94.7	10020.6	7032.9	4976.3	418200	7203.1	N/A
23	12/12/2024	97.5	9978.1	7405.9	4952.8	412720	7053.4	N/A
24	12/12/2024	97.3	10190.9	7404.4	4709.4	417340	6906.3	N/A
25	12/12/2024	95.9	9948.7	6921.9	5322.0	407800	7106.9	N/A
26	12/13/2024	96.8	9883.1	6829.0	5354.0	397070	6912.0	N/A
27	12/13/2024	96.8	9932.1	6954.8	5397.0	411140	7270.4	N/A
28	12/14/2024	95.8	9942.3	7456.2	4921.5	409020	7366.9	N/A
29	12/14/2024	97.8	9906.5	7159.1	5356.0	415920	7078.0	N/A
30	12/14/2024	98.2	9947.7	7192.5	5493.0	411520	7043.8	N/A
31	12/15/2024	96.8	9992.1	7233.0	5306.0	413920	7238.0	N/A
32	12/15/2024	97.0	9912.7	6873.0	5429.0	412330	7032.1	N/A
33	12/15/2024	97.3	9954.2	7387.7	5015.6	418780	7363.2	N/A
34	12/16/2024	98.1	10006.0	6909.2	5451.0	412760	7146.7	N/A
35	12/16/2024	95.7	9613.2	6859.3	5073.2	407560	7085.9	N/A
36	12/16/2024	97.6	9915.0	6860.1	5314.0	409940	7224.3	N/A
37	12/17/2024	98.2	9970.3	7284.9	4918.0	412620	7079.9	N/A
38	12/17/2024	97.4	9841.6	6727.9	5412.0	412460	7037.1	N/A
39	12/17/2024	97.7	9987.7	6972.1	5483.0	409100	7253.4	N/A
40	12/18/2024	98.6	9381.1	5966.8	5569.0	403280	6957.0	N/A
41	12/18/2024	96.6	9611.6	7004.4	5228.0	404920	6780.9	N/A
42	12/19/2024	89.8	8879.5	7426.3	5597.0	408080	11284.9	N/A
43	12/19/2024	97.2	9504.2	7233.5	4820.0	407620	6849.8	N/A
44	12/19/2024	98.3	9460.3	7076.3	5283.0	409120	6848.9	N/A
45	12/20/2024	98.1	9727.5	6922.6	5476.0	410620	7131.3	N/A
46	12/20/2024	97.7	9293.6	6171.8	5220.0	409000	6882.3	N/A
47	12/20/2024	93.1	9249.9	7575.0	4452.1	400109	6862.3	N/A
48	12/21/2024	98.5	9053.9	6848.5	5004.0	414980	6876.4	N/A
49	12/21/2024	97.9	9302.7	7012.8	5181.0	409800	6831.0	N/A
50	12/21/2024	98.1	9067.0	7084.7	5371.0	415700	9503.0	N/A
51	12/22/2024	96.6	8977.6	7134.2	5589.0	411880	6721.4	N/A
52	12/22/2024	97.4	9232.7	7159.3	5206.0	414720	6762.3	N/A
53	12/23/2024	98.3	8680.9	6841.0	5049.0	415460	7467.8	N/A
54	12/23/2024	98.3	9184.5	6851.4	5262.0	410920	6738.0	N/A
55	12/24/2024	99.1	8956.9	7633.9	5358.0	418660	6988.8	N/A
56	12/24/2024	97.5	8666.0	7220.9	5230.0	410000	6980.7	N/A
57	12/24/2024	97.6	8650.6	6907.6	5453.0	406340	6906.1	N/A
58	12/25/2024	98.5	8709.1	7255.6	5198.0	411840.0	6916.5	N/A
59	12/25/2024	98.8	8617.3	7086.8	5350.0	397740.0	6609.2	N/A
60	12/25/2024	98.3	8681.9	6831.1	5712.0	401200.0	6701.9	N/A
61	12/26/2024	97.0	9032.4	7101.8	5673.0	417650.0	7009.5	N/A
62	12/26/2024	98.0	9144.2	7427.3	5352.0	412020.0	6676.9	N/A
63	12/26/2024	97.0	8787.0	6970.4	5212.0	416600.0	7971.1	N/A
64	12/27/2024	99.1	9283.4	6633.3	5275.0	407960.0	6693.0	N/A
65	12/27/2024	96.4	8903.4	6111.7	4859.6	412680.0	6396.5	N/A
66	12/27/2024	98.5	8927.3	6929.8	5368.0	414760.0	6632.2	N/A
67	12/28/2024	93.2	8950.5	6733.7	5010.0	416920.0	6735.0	N/A
68	12/28/2024	93.3	8445.7	6864.0	4720.1	409220.0	7158.6	N/A
69	12/28/2024	98.2	8687.9	6773.9	5515.0	411560.0	6545.7	N/A
70	12/29/2024	98.9	8708.2	6734.5	4875.0	413600.0	6541.8	N/A
71	12/29/2024	98.5	8518.7	5966.1	5492.0	413720.0	6601.7	N/A
72	12/29/2024	99.2	8031.5	6337.8	5694.0	411660.0	6489.0	N/A
73	12/29/2024	99.8	8196.0	7112.2	5140.0	405380.0	6483.7	N/A
74	12/29/2024	99	8,273	6,740	5,238	405,920	6,419	N/A
75	12/30/2024	99	8,129	6,673	5,388	399,760	6,347	N/A
76	12/30/2024	98	8,238	6,900	5,367	408,240	6,475	N/A
77	12/30/2024	98	7,918	6,639	4,769	415,400	6,474	N/A
78	12/30/2024	99	8,019	6,888	4,571	412,200	6,491	N/A
	AVERAGE	97	9,412	7,000	5,143	31,723,489	556,993	TOTAL

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LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Silty Sandstone	84	274	84	274
Sandstone, Occ Siltstone	274	424	274	424
Silty Sandstone	424	724	424	724
Sandstone, Siltstone	624	924	624	924
Sandy Siltstone	724	924	724	924
Siltstone, Occ Sandstone	924	1,174	924	1,174
Sandy Siltstone	1,174	1,274	1,174	1,274
Siltstone, tr Sandstone	1,274	1,324	1,274	1,324
Siltstone, tr Sandstone, tr Shale	1,324	1,824	1,324	1,824
Sandstone	1,824	1,924	1,824	1,924
Sandstone, Occ Siltstone	1,924	1,974	1,924	1,974
Silty Sandstone	1,974	2,124	1,974	2,124
Sandstone, Occ Siltstone	2,124	2,274	2,124	2,274
Sandstone	2,274	2,324	2,274	2,324
Silty Sandstone	2,324	2,242	2,324	2,332
Big Lime	2,268	2,750	2,332	2,871
Fifty Foot Sandstone	2,750	2,947	2,845	3,081
Gordon	2,947	3,241	3,055	3,392
Fifth Sandstone	3,241	3,305	3,366	3,459
Bayard	3,305	3,625	3,433	3,797
Speechley	3,625	4,116	3,771	4,324
Balltown	4,116	4,790	4,298	5,044
Bradford	4,790	5,234	5,018	5,519
Benson	5,234	5,493	5,493	5,797
Alexander	5,493	6,909	5,771	7,316
Sycamore	6,726	6,883	7,103	7,290
Middlesex	6,883	7,022	7,290	7,483
Burkett	7,022	7,059	7,483	7,545
Tully	7,059	7,148	7,545	7,754
Marcellus	7,148	NA	7,754	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/30/2024
Job End Date:	12/30/2024
State:	West Virginia
County:	Doddridge
API Number:	47-017-06965-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Castilow Unit 1H
Latitude:	39.187556
Longitude:	-80.681404
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7252
Total Base Water Volume (gal)*:	24452327
Total Base Non Water Volume:	0



Water Source	Percent
Groundwater, < 1000TDS	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
FightR EC-17	Halliburton	Friction Reducer					
Fresh Water	Operator	Base Fluid					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID,15%	Halliburton	Solvent					
LCA-1	Halliburton	Solvent					
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					

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WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.17737	None
			Crystalline silica, quartz	14808-60-7	100.00000	13.40567	None
			Water	7732-18-5	100.00000	0.33776	None
			Hydrochloric acid	7647-01-0	15.00000	0.05137	None
			Acrylamide copolymer	Proprietary	60.00000	0.03290	None
			Hydrotreated distillate	Proprietary	100.00000	0.01645	None
			Methanol	67-56-1	100.00000	0.00703	None
			Guar gum	9000-30-0	100.00000	0.00366	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00274	None
			Oleic acid, ethoxylated	9004-96-0	5.00000	0.00274	None
			Glutaraldehyde	111-30-8	30.00000	0.00243	None
			Sodium chloride	7647-14-5	5.00000	0.00056	None
			Phosphoric Acid Salt	Proprietary	5.00000	0.00056	None
			Poly(oxy-1,2-ethanediyl), a-hydroxy-, ether with D-glucitol, tetra-(9Z)-9-octadecenoate	61723-83-9	1.00000	0.00055	None
			Alcohols, C12-16, ethoxylated	68551-12-2	1.00000	0.00055	None
			Alcohols, C12-14-secondary, ethoxylated	84133-50-6	1.00000	0.00055	None
			Fatty amine salt	Proprietary	1.00000	0.00055	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000		None
			Ammonium persulfate	7727-54-0	100.00000		None
			Citric acid	77-92-9	1.00000	0.00008	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00008	None
			Modified thiourea	Proprietary	30.00000	0.00008	None

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			polymer				
			Sodium bisulfite	7631-90-5	0.10000	0.00005	None
			Organic salt	Proprietary	0.10000	0.00005	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00004	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
			Formaldehyde	50-00-0	0.10000	0.00001	None
			Ethylene oxide	75-21-8	0.01000	0.00001	None
			Acrylamide	79-06-1	0.01000	0.00001	None
			Ammonium salt	Proprietary	0.01000	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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Antero Resources
Well No. Castilow 1H
As-Drilled
Antero Resources Corporation

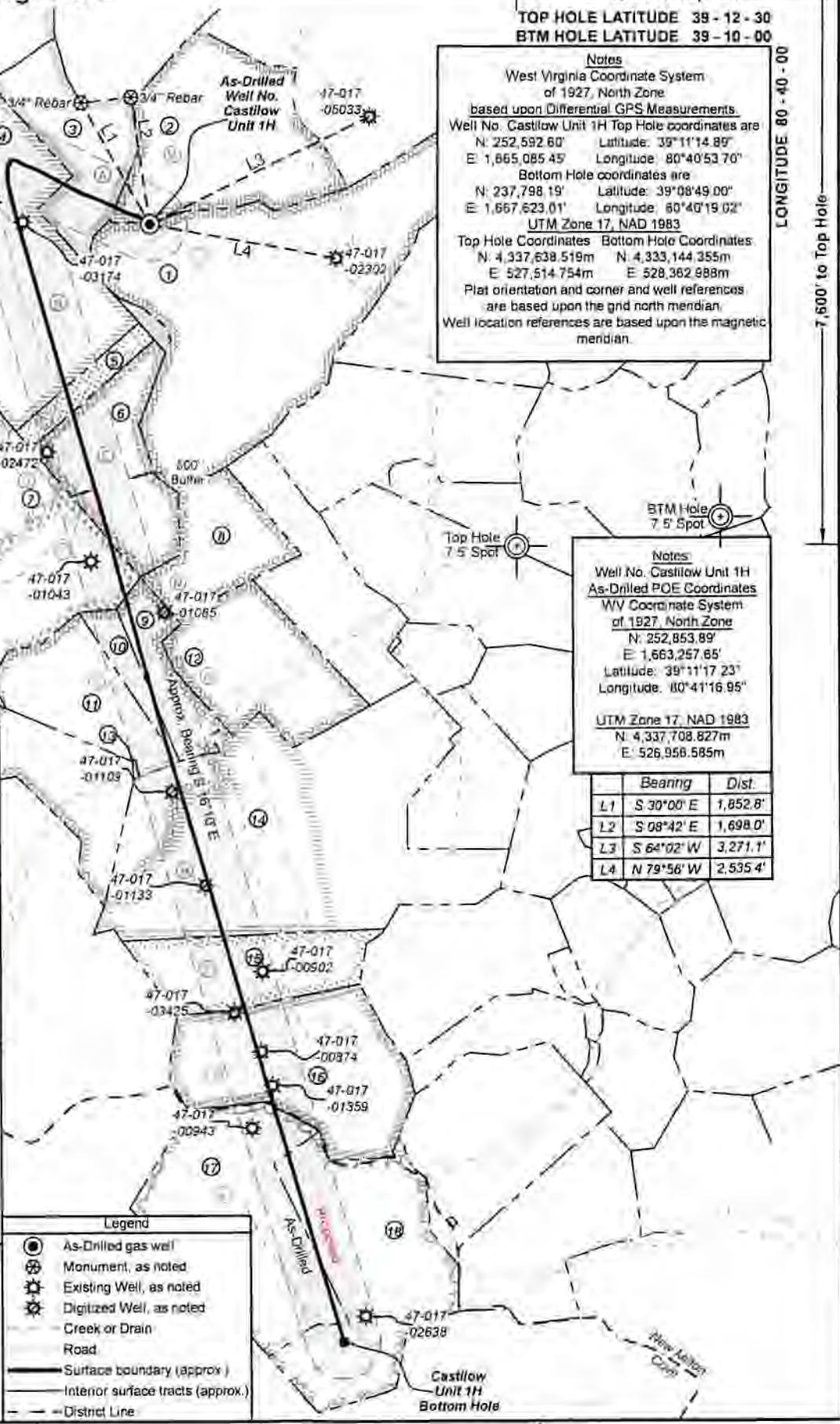
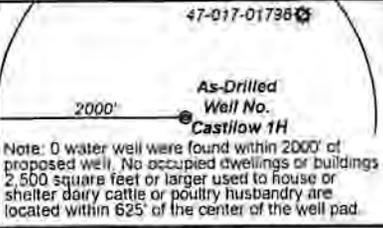
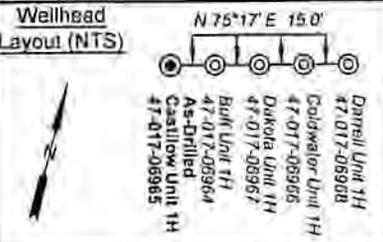
1,498' to Bottom Hole
 4,228' to Top Hole
TOP HOLE LATITUDE 39 - 12 - 30
BTM HOLE LATITUDE 39 - 10 - 00



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, P.S. 2167



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Castilow Unit 1H Top Hole coordinates are
 N: 252,592.60' Longitude: 39°11'14.89"
 E: 1,665,085.45' Longitude: 80°40'53.70"
 Bottom Hole coordinates are
 N: 237,798.19' Longitude: 39°08'49.00"
 E: 1,667,623.01' Longitude: 80°40'19.62"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,337,638.519m N: 4,333,144.355m
 E: 527,514.754m E: 528,362.988m
 Plat orientation and corner well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes
 Well No. Castilow Unit 1H As-Drilled POE Coordinates
 WV Coordinate System of 1927, North Zone
 N: 252,853.89'
 E: 1,663,267.65'
 Latitude: 39°11'17.23"
 Longitude: 80°41'16.95"
UTM Zone 17, NAD 1983
 N: 4,337,708.827m
 E: 526,956.585m

	Bearing	Dist.
L1	S 30°00' E	1,852.8'
L2	S 08°42' E	1,698.0'
L3	S 64°02' W	3,271.1'
L4	N 79°56' W	2,535.4'

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

FILE NO: 265-30-N-22
 DRAWING NO: Castilow 1H Well Plat As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: May 12, 2025
 OPERATOR'S WELL NO: Castilow 1H
 API WELL NO:
 47 - 017 - 06965
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,194' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: New Milton
 DISTRICT: TH New Milton, BH Cove COUNTY: Doddridge
 SURFACE OWNER: Susan Haught Gido, et al ACREAGE: 264
 ROYALTY OWNER: D.C. Haught, et ux LEASE NO: ACREAGE: 254

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: 23,461' MD 7,135' TVD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

02/06/2026



Leases	
A	Franklin Maxwell Heirs, LP
B	Denver Cox, et ux
C	Ralph Lee & Deloris Cox
D	Jack E. & Dorothea Webber
E	Kenneth R. Mason, et ux
F	Frank Hinter, et al
G	O.C. Haught, et al
H	O.C. Haught, et al
I	Embra D. White
J	AMP IV, LP
K	H.B. Gum, et ux
L	O.C. Haught, et ux
M	Haught Family Trust
N	Mary K. Post Revocable Trust - 2017, et al
O	Mary K. Post Revocable Trust - 2017, et al

ID	TM-Par	Owner	Bk/Pg	Acres
1	15-15	Susan Haught Gido, et al	WB62/407	264.00
2	15-6	Susan Haught Gido, et al	WB62/407	119.23
3	15-5	David E. Bowyer, et al	389/715	64.00
4	15-14	Ralph & Deloris Cox	223/187	207.50
5	15-16	Ralph & Deloris Cox	223/187	15.25
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FILE NO: 265-30-N-22
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Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

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

DATE: May 12 20 25
OPERATOR'S WELL NO. Castilow 1H
API WELL NO
47 - 017 - 06965
STATE COUNTY PERMIT

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

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DISTRICT: TH: New Milton, BH: Cove COUNTY: 02/06/2026
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23,461' MD

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ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

1,498' to Bottom Hole

4,228' to Top Hole

TOP HOLE LATITUDE 39 - 12 - 30
BTM HOLE LATITUDE 39 - 10 - 00

LONGITUDE 80 - 40 - 00

7,600' to Top Hole

7,184' to Bottom Hole

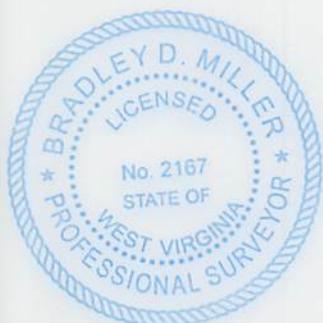
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As-Drilled
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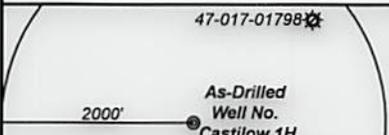
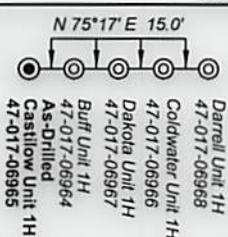
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Bradley D. Miller, P.S. 2167



SEAL

Wellhead Layout (NTS)



Note: 0 water well were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

- Legend**
- As-Drilled gas well
 - ⊕ Monument, as noted
 - ⊙ Existing Well, as noted
 - ⊙ Digitized Well, as noted
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OIL AND GAS DIVISION

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47 - 017 - 06965
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