

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

API 47 - 095 - 02893 County THL: Tyler, BHL: Pleasants District THL: Meade, BHL: Union
Quad Bens Run Pad Name Wrigley Pad Field/Pool Name -----
Farm name Shirley J. Wells & Susie Cunningham Well Number Burch 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 4363540.097m Easting 499307.217m
Landing Point of Curve Northing 4363548.27m Easting 498796.10m
Bottom Hole Northing 4367379.643m Easting 497421.933m

Elevation (ft) 937' 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 7/24/24 Date drilling commenced 9/25/2024 Date drilling ceased 11/9/2024
Date completion activities began 12/21/2024 Date completion activities ceased 1/22/2025
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 397' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1436', 1847' 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

Reviewed by:

05/16/2025

WR-35
Rev. 8/23/13

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API 47- 095 - 02893 Farm name Shirley J. Wells & Susie Cunningham Well number Burch 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"	501'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3362'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	20076'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6257'		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	158 sx	15.6	1.18	186	0'	8 Hrs.
Surface	Class A	447 sx	15.6	1.19	532	0'	8 Hrs.
Coal							
Intermediate 1	Class H	sx	15.6			0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class G	3490 sx (Lead)	13.5 (Lead), 15.2(Tail)	1.26 (Lead)	4397	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 20076' MD, 5987' TVD (BHL), 6088' (Deepest Point Drilled)

Loggers TD (ft) 20076' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 5483'

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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

05/16/2025

API 47- 095 - 02893 Farm name Shirley J. Wells & Susie Cunningham Well number Burch Unit 1H

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

***PLEASE SEE ATTACHED EXHIBIT 1**

[illegible]

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[illegible]

***PLEASE SEE ATTACHED EXHIBIT 2**

[illegible]

05/16/2025

API 47-095-02893 Farm Name Shirley J. Wells & Susie Cunningham Well Number Burch Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/21/2024	18883	18867	36	Marcellus
2	12/21/2024	18828.73387	18664.4032	36	Marcellus
3	12/21/2024	18629.1371	18464.8065	36	Marcellus
4	12/22/2024	18429.54032	18265.2097	36	Marcellus
5	12/22/2024	18229.94355	18065.6129	36	Marcellus
6	12/22/2024	18030.34677	17866.0161	36	Marcellus
7	12/22/2024	17830.75	17666.4194	36	Marcellus
8	12/23/2024	17631.15323	17466.8226	36	Marcellus
9	12/23/2024	17431.55645	17267.2258	36	Marcellus
10	12/23/2024	17231.95968	17067.629	36	Marcellus
11	12/23/2024	17032.3629	16868.0323	36	Marcellus
12	12/24/2024	16832.76613	16668.4355	36	Marcellus
13	12/24/2024	16633.16935	16468.8387	36	Marcellus
14	12/24/2024	16433.57258	16269.2419	36	Marcellus
15	12/24/2024	16233.97581	16069.6452	36	Marcellus
16	12/25/2024	16034.37903	15870.0484	36	Marcellus
17	12/25/2024	15834.78226	15670.4516	36	Marcellus
18	12/25/2024	15635.18548	15470.8548	36	Marcellus
19	12/25/2024	15435.58871	15271.2581	36	Marcellus
20	12/25/2024	15235.99194	15071.6613	36	Marcellus
21	12/26/2024	15036.39516	14872.0645	36	Marcellus
22	12/26/2024	14836.79839	14672.4677	36	Marcellus
23	12/26/2024	14637.20161	14472.871	36	Marcellus
24	12/26/2024	14437.60484	14273.2742	36	Marcellus
25	12/26/2024	14238.00806	14073.6774	36	Marcellus
26	12/27/2024	14038.41129	13874.0806	36	Marcellus
27	12/27/2024	13838.81452	13674.4839	36	Marcellus
28	12/27/2024	13639.21774	13474.8871	36	Marcellus
29	12/27/2024	13439.62097	13275.2903	36	Marcellus
30	12/27/2024	13240.02419	13075.6935	36	Marcellus
31	12/28/2024	13040.42742	12876.0968	36	Marcellus
32	12/28/2024	12840.83065	12676.5	36	Marcellus
33	12/28/2024	12641.23387	12476.9032	36	Marcellus
34	12/28/2024	12441.6371	12277.3065	36	Marcellus
35	12/28/2024	12242.04032	12077.7097	36	Marcellus
36	12/29/2024	12042.44355	11878.1129	36	Marcellus
37	12/29/2024	11842.84677	11678.5161	36	Marcellus
38	12/29/2024	11643.25	11478.9194	36	Marcellus
39	12/29/2024	11443.65323	11279.3226	36	Marcellus
40	12/29/2024	11244.05645	11079.7258	36	Marcellus
41	12/30/2024	11044.45968	10880.129	36	Marcellus
42	12/30/2024	10844.8629	10680.5323	36	Marcellus
43	12/30/2024	10645.26613	10480.9355	36	Marcellus
44	12/30/2024	10445.66935	10281.3387	36	Marcellus
45	12/30/2024	10246.07258	10081.7419	36	Marcellus
46	12/31/2024	10046.47581	9882.14516	36	Marcellus
47	12/31/2024	9846.879032	9682.54839	36	Marcellus
48	12/31/2024	9647.282258	9482.95161	36	Marcellus
49	12/31/2024	9447.685484	9283.35484	36	Marcellus
50	1/1/2025	9248.08871	9083.75806	36	Marcellus
51	1/1/2025	9048.491935	8884.16129	36	Marcellus
52	1/1/2025	8848.895161	8684.56452	36	Marcellus
53	1/1/2025	8649.298387	8484.96774	36	Marcellus
54	1/1/2025	8449.701613	8285.37097	36	Marcellus
55	1/1/2025	8250.104839	8085.77419	36	Marcellus
56	1/2/2025	8050.508065	7886.17742	36	Marcellus
57	1/2/2025	7850.91129	7686.58065	36	Marcellus
58	1/2/2025	7651.314516	7486.98387	36	Marcellus
59	1/2/2025	7451.717742	7287.3871	36	Marcellus
60	1/2/2025	7252.120968	7087.79032	36	Marcellus
61	1/2/2025	7052.524194	6888.19355	36	Marcellus
62	1/3/2025	6852.927419	6688.59677	36	Marcellus
63	1/3/2025	6653.330645	6489	36	Marcellus

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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 (bbls)	Amount of Nitrogen/ other (units)
1	12/21/2024	87.0	8646.4	0	2363.2	168220	4471.8	N/A
2	12/21/2024	97.1	10137.7	6160.63	4040.0	389190	7021.4	N/A
3	12/21/2024	97.7	9968.0	5921.09	4912.6	396330	8661.5	N/A
4	12/22/2024	97.2	9843.1	5535.78	3273.4	412040	7415.8	N/A
5	12/22/2024	96.5	9711.9	5693.63	4402.0	409060	7330.8	N/A
6	12/22/2024	97.1	9781.1	5179.71	4146.0	399660	7016.5	N/A
7	12/22/2024	95.5	9738.1	4780.25	3877.3	413300	7412.5	N/A
8	12/23/2024	95.1	9251.5	4927.1	4028.3	392840	7115.5	N/A
9	12/23/2024	92.3	9007.0	5240.47	3796.0	393460	8558.5	N/A
10	12/23/2024	97.3	9736.2	5286.8	3705.0	417480	7144.2	N/A
11	12/23/2024	97.7	9590.1	5312.77	3828.0	401240	7076.5	N/A
12	12/24/2024	97.6	9712.2	4558.79	3877.0	411460	7206.9	N/A
13	12/24/2024	98.3	9236.5	4769.72	3894.1	398480	6786.9	N/A
14	12/24/2024	95.9	8945.2	5744.24	2654.5	413680	7373.7	N/A
15	12/24/2024	97.9	9052.6	5565.36	3939.0	413120	7439.3	N/A
16	12/25/2024	94.9	9162.5	5025.34	4275.0	418560	7196.2	N/A
17	12/25/2024	96.0	9241.6	5465.01	4356.0	415900	7147.1	N/A
18	12/25/2024	97.2	8901.5	4877.47	3747.0	398650	7082.8	N/A
19	12/25/2024	99.2	9107.8	5296.74	4622.0	395960	6834.0	N/A
20	12/25/2024	98.0	9286.1	5192.6	4523.0	402980	6806.0	N/A
21	12/26/2024	97.7	8939.2	5197.2	4234.0	400570	6778.5	N/A
22	12/26/2024	97.8	8819.2	5238.27	4320.0	411460	7019.8	N/A
23	12/26/2024	96.8	8666.2	0	3719.1	396520	6832.8	N/A
24	12/26/2024	98.3	8850.6	5132.29	4499.0	398300	6884.8	N/A
25	12/26/2024	96.7	8802.2	5262.11	3777.0	414600	6754.1	N/A
26	12/27/2024	96.7	8606.5	5113.2	3879.0	401050	6762.1	N/A
27	12/27/2024	94.4	8186.3	5235.28	3282.9	398280	6750.4	N/A
28	12/27/2024	99.4	8658.2	5401.5	3977.0	398810	7004.5	N/A
29	12/27/2024	98.5	8679.0	5475.49	3952.0	413480	7129.5	N/A
30	12/27/2024	98.8	8643.5	5449.94	3566.0	416080	6928.0	N/A
31	12/28/2024	98.6	8340.4	4950.61	4259.2	416660	6907.0	N/A
32	12/28/2024	96.7	8283.7	5324.8	4779.8	395060	6626.8	N/A
33	12/28/2024	98.0	8102.5	5339.27	4053.0	410380	7119.1	N/A
34	12/28/2024	74.5	8064.5	5227.03	4411.0	394130	8285.1	N/A
35	12/28/2024	96.1	8364.2	5126.35	3789.0	413620	6886.8	N/A
36	12/29/2024	97.1	8025.2	5244.2	3712.0	397120	6792.3	N/A
37	12/29/2024	98.1	8304.9	5245.94	4812.0	398030	6830.8	N/A
38	12/29/2024	97.4	8085.1	5545.12	5015.0	398270	6820.4	N/A
39	12/29/2024	98.5	7741.9	4558.76	4732.0	393950	9861.8	N/A
40	12/29/2024	97.7	7801.8	5413.66	3899.0	400870	6758.6	N/A
41	12/30/2024	97.8	7884.1	5380.83	3654.0	395220	6334.5	N/A
42	12/30/2024	96.1	7996.2	5347.98	4647.0	413940	6913.0	N/A
43	12/30/2024	97.9	7725.3	5117.16	4700.0	391370	7351.2	N/A
44	12/30/2024	98.5	7860.3	4584.32	3560.0	398190	6773.4	N/A
45	12/30/2024	98.1	7919.9	5463.27	3987.0	418340	6838.0	N/A
46	12/31/2024	98.0	7761.1	5452.42	3244.9	394930	6680.5	N/A
47	12/31/2024	97.4	7495.7	5240.69	3335.0	413340	7015.2	N/A
48	12/31/2024	97.3	7504.7	5393.58	5100.0	397380	6311.1	N/A
49	12/31/2024	97.4	7294.0	5103.64	3941.0	411100	6463.3	N/A
50	1/1/2025	96.9	7414.7	5174.07	4159.0	397070	6376.3	N/A
51	1/1/2025	97.2	7272.5	5362.94	4979.0	414100	6667.9	N/A
52	1/1/2025	96.7	7292.5	5204.98	4122.0	394410	6271.5	N/A
53	1/1/2025	99.0	7513.4	5582.78	4355.0	394800	6310.5	N/A
54	1/1/2025	98.2	7343.4	5670.78	4800.0	397980	6439.2	N/A
55	1/1/2025	98.1	7217.3	5454.64	4529.0	408280	6437.8	N/A
56	1/2/2025	98.7	7215.1	5894.83	4352.0	395090	6889.1	N/A
57	1/2/2025	98.1	7163.5	5576.79	4159.0	392770	6344.5	N/A
58	1/2/2025	99.5	7258.8	5395.4	4300.0	411520.0	6362.7	N/A
59	1/2/2025	99.5	7090.4	5628.2	4150.0	416600.0	6476.0	N/A
60	1/2/2025	98.7	7141.3	5950.2	4438.0	394950.0	6554.5	N/A
61	1/2/2025	97.5	7235.5	5617.5	4521.0	396280.0	6236.5	N/A
62	1/3/2025	98.9	6682.7	5439.4	4095.0	399920.0	6376.3	N/A
63	1/3/2025	99.3	6537.6	5217.9	3286.4	412900.0	6901.5	N/A
	AVERAGE	97	8,347	5,147	4,085	25,189,330	436,156	TOTAL

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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
Silty Sandstone	524	624	524	624
Sandstone, Occ Siltstone	624	724	624	724
Silty Sandstone, tr Shale	724	874	724	874
Siltstone, tr Shale, tr LS	824	924	824	924
Siltstone, tr Shale	874	924	874	924
Siltstone, tr Sandstone, tr LS	924	974	924	974
Siltstone, tr Sandstone, rr LS	974	1,074	974	1,074
Sandstone	1,074	1,274	1,074	1,274
Sandstone, Occ Siltstone, Tr Coal	1,274	1,374	1,274	1,374
Silty Sandstone, tr Coal	1,374	1,474	1,374	1,474
Sandstone, tr Coal	1,474	1,574	1,474	1,574
Sandstone	1,574	1,674	1,574	1,674
Sandstone, tr Siltstone	1,674	1,724	1,674	1,724
Sandstone, rr Siltstone	1,724	1,774	1,724	1,774
Limestone, rr Sandstone, tr Shale	1,774	1,722	1,774	1,752
Big Lime	1,748	2,334	1,752	2,391
Fifty Foot Sandstone	2,334	2,576	2,365	2,643
Gordon	2,576	2,791	2,617	2,869
Fifth Sandstone	2,791	3,156	2,843	3,251
Bayard	3,156	3,767	3,225	3,890
Speechley	3,767	4,020	3,864	4,156
Balltown	4,020	4,341	4,130	4,491
Bradford	4,341	4,639	4,465	4,805
Benson	4,639	4,770	4,779	4,942
Alexander	4,770	5,942	4,916	6,246
Sycamore	5,824	5,916	6,083	6,220
Middlesex	5,916	5,994	6,220	6,382
Burkett	5,994	6,015	6,382	6,441
Marcellus	6,015	NA	6,441	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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API 47- 095 - 02893 Farm name Shirley J. Wells & Susie Cunningham Well number Burch Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6015' (TOP)	TVD	6441' (TOP) MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow

OIL TEST ☒ Flow ☐ Pump

SHUT-IN PRESSURE Surface 1265 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 13125.90 mcfpd Oil 369.73 bpd NGL --- bpd Water 1294.27 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**

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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 Raptor Consulting, Inc
Address 80 Emerson Ln #1307 City Bridgeville State PA Zip 15017

Cementing Company SLB Cementing
Address 5599 San Felipe St Fl 17 City Houston State TX Zip 77056

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

05/16/2025

Antero Resources
Well No. Burch 1H
As-Drilled

Antero Resources Corporation



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Leases	
A	Roy Emmett Huffman & Linda Gay Huffman
B	Michael Scott Bonner
C	Lisa Krynaich
D	Terry & Daphne Heinzman
E	Antero Minerals, LLC
F	Clifford Benjamin & Rebecca Louise Boone
G	Bobbin E. Pardine
H	Estate of Mary Jane Stewart
I	Greenbrier Royalty Fund II, LLC
J	WVDNR
K	A. P. Allen, et ux
L	Wells Cattle Farms, Inc.
M	Greenbrier Royalty Fund II, LLC
N	Vicki Bonner
O	Bradley William Poch
P	Janelle Sue Perkins
Q	Antero Minerals, LLC
R	Inex B. Fletcher, et vir
S	Mary C. Robinson Living Trust

ID	TM/Par	Owner	Bk/Pg	Acres
1	3-9	Roy Emmett & Linda Gay Huffman	126/341	55.00
2	3-23A	David L. Bonner	WB33/171	104.00
3	3-26	Glen E. Bonner	WB33/171	13.35
4	13-36	Lisa Krynaich	566/759	165.50
5	7-14	Terry & Daphne Heinzman	262/527	61.77
6	12-12	Lisa Krynaich	566/759	20.00
7	7-23B	Frederick M. Bonner	286/474	27.33
8	7-14.1	Terry & Daphne Heinzman	262/527	30.00
9	7-15	Rebecca Louise & Clifford Benjamin Boone	348/311	9.17
10	7-13.1	Rebecca Louise & Clifford Benjamin Boone	348/317	77.25
11	7-15.1	Bobbin E. Pardine	268/516	63.60
12	7-13.2	Terry & Daphne Heinzman	342/105	42.70
13	15-16	James E. & Anita Carr	349/742	58.12
14		Middle Island Creek		
15		Middle Island Creek		
16	7-22	Forty-Four Acres, Inc.	208/134	44.50
17	4-8	Wells Cattle Farms, Inc.	331/164	155.00
18	4-19	Wells Cattle Farms, Inc.	318/190	206.13
19	4-20	Cecil E. Sr. & Linda Jordan; James & Connie Hicks	318/190	206.13
20	4-32	Wells Cattle Farms, Inc.	318/190	206.13
21	7-1	Daniel Preston Bonner	416/11	142.72
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25	7-8	John Wells	428/412	52.39
26	7-2	Shirley J. Wells & Susie Cunningham	WB41/317	53.85

FILE NO: 173-54-U-23

DRAWING NO: Burch Unit 1H 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: April 16 20 25

OPERATOR'S WELL NO. Burch Unit 1H

API WELL NO

47 — 095 — 02893
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 937' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Bens Run

DISTRICT: THL: Meade, BHL: Union COUNTY: THL: Meade, BHL: Meade

SURFACE OWNER: Shirley J. Wells & Susie Cunningham ACREAGE: 53.85

ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 365.445

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 5,987' TVD

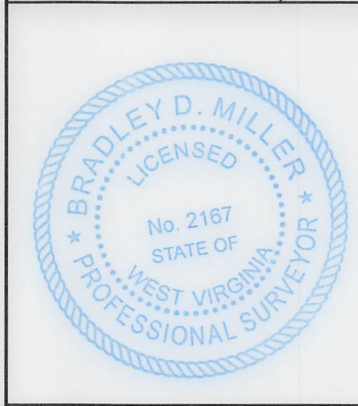
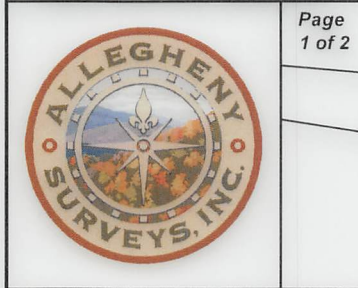
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,076' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202 Bridgeport, WV 26330

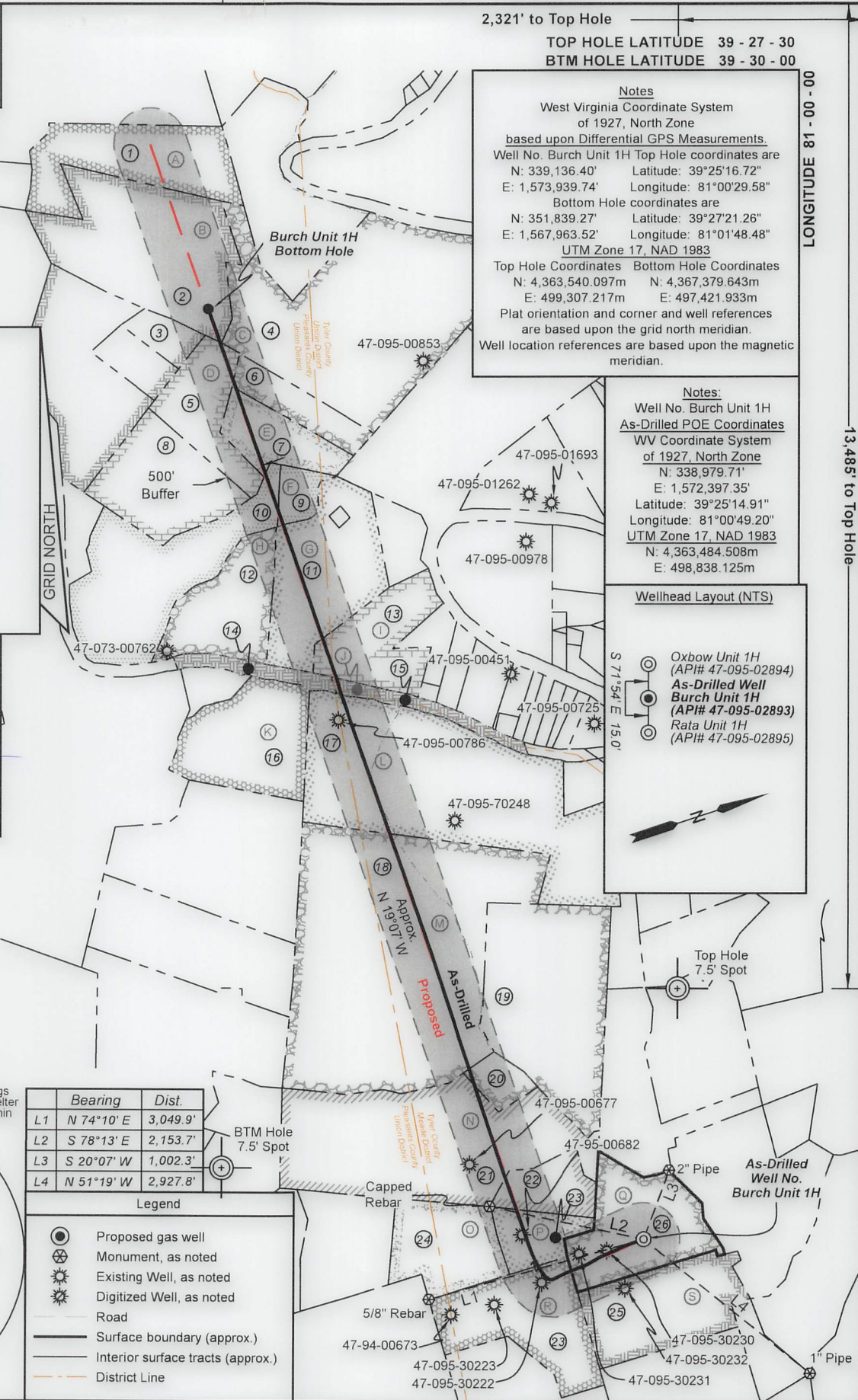
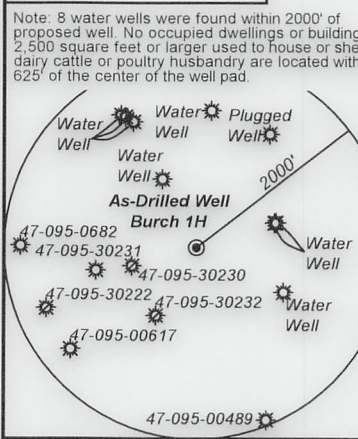
Antero Resources
Well No. Burch 1H
As-Drilled
Antero Resources Corporation



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

Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheeny 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.



	Bearing	Dist.
L1	N 74°10' E	3,049.9'
L2	S 78°13' E	2,153.7'
L3	S 20°07' W	1,002.3'
L4	N 51°19' W	2,927.8'

- Legend
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - District Line

FILE NO: 173-54-U-23
DRAWING NO: Burch Unit 1H As-Drilled
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

DATE: April 16 20 25
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47 - 095 - 02893
STATE COUNTY PERMIT

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☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
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20,076' MD

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Denver, CO 80202 Bridgeport, WV 26330

Antero Resources
Well No. Burch 1H
As-Drilled

Antero Resources Corporation



Page
2 of 2

Leases	
A	Roy Emmett Huffman & Linda Gay Huffman
B	Michael Scott Bonner
C	Lisa Kmyaich
D	Terry & Daphne Heinzman
E	Antero Minerals, LLC
F	Clifford Benjamin & Rebecca Louise Boone
G	Bobbin E. Pardine
H	Estate of Mary Jane Stewart
I	Greenbrier Royalty Fund II, LLC
J	WVDNR
K	A.P. Allen, et ux
L	Wells Cattle Farms, Inc.
M	Greenbrier Royalty Fund II, LLC
N	Vicki Bonner
O	Bradley William Poch
P	Janelle Sue Perkins
Q	Antero Minerals, LLC
R	Inex B. Fletcher, et vir
S	Mary C. Robinson Living Trust

ID	TM/Par	Owner	Bk/Pg	Acres
1	3-9	Roy Emmett & Linda Gay Huffman	126/341	55.00
2	3-23A	David L. Bonner	WB33/171	104.00
3	3-26	Glen E. Bonner	WB33/171	13.35
4	13-36	Lisa Krynaich	566/759	165.50
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ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/21/2024
Job End Date:	01/03/2025
State:	West Virginia
County:	Tyler
API Number:	47-095-02893-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	BURCH Unit 1H
Latitude:	39.421394
Longitude:	-81.008052
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6088
Total Base Water Volume (gal)*:	19027669
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

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WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Excelerate LX-21	Halliburton	Friction Reducer					
FDP-S1470-23	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
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,	Halliburton	Proppant					

05/16/2025

SSA-2							
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.75273	None
			Crystalline silica, quartz	14808-60-7	100.00000	13.05064	None
			Water	7732-18-5	100.00000	0.17244	None
			Hydrochloric acid	7647-01-0	30.00000	0.04249	None
			Complex amine compound	Proprietary	60.00000	0.02498	None
			Hydrotreated distillate	Proprietary	30.00000	0.01249	None
			Guar gum	9000-30-0	100.00000	0.00407	None
			Glutaraldehyde	111-30-8	30.00000	0.00236	None
			Ammonium chloride	12125-02-9	5.00000	0.00214	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00208	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00208	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	0.00065	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00043	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00042	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00039	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00032	None
			Methanol	67-56-1	100.00000	0.00024	None
			Ammonium persulfate	7727-54-0	100.00000	0.00012	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	0.00007	None
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00005	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00005	None

05/16/2025

			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
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	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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APR 25 2025
WV Department of
Environmental Protection

05/16/2025