

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

API 47-095-02732 County Tyler District Union/Meade
Quad Middlebourne Pad Name Roma Lou Field/Pool Name -----
Farm name Antero Resources Corporation Well Number Patty 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 4370711m Easting 502249m
Landing Point of Curve Northing 4370917.26m Easting 502875.22m
Bottom Hole Northing 4366832m Easting 503558m

Elevation (ft) 883' 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 4/13/2021 Date drilling commenced 6/25/2021 Date drilling ceased 7/7/2021
Date completion activities began 7/19/2021 Date completion activities ceased 8/28/2021
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 158' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1678' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 483' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

WR-35
Rev. 8/23/13

API 47-095 - 02732 Farm name Antero Resources Corporation Well number Patty 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	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	361'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2731'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	19580'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	6726'		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	351 sx	15.6	1.18	75	0'	8 Hrs.
Surface	Class A	510 sx	15.6	1.20	106	0'	8 Hrs.
Coal							
Intermediate 1	Class A	970 sx	15.8	1.17	200	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 2914 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.32 (Tail)	683	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 19625' MD, 6011' TVD (BHL), 6099' (Deepest Point Drilled) Loggers TD (ft) 19625' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5751'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6027' (TOP) TVD	6778' (TOP) MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14063 mcfpd Oil 358 bpd NGL --- bpd Water 1119 bpd GAS MEASURED BY Estimated Orifice Pilot

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

***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 Halliburton Energy Services
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

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

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223
Signature  Title Completions Technician Date 3/31/22

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	07/19/2021	19515.9	19473.6	36	Marcellus
2	07/20/2021	19434.95979	19269.7587	36	Marcellus
3	07/21/2021	19234.31852	19069.1175	36	Marcellus
4	07/21/2021	19033.67725	18868.4762	36	Marcellus
5	07/21/2021	18833.03598	18667.8349	36	Marcellus
6	07/22/2021	18632.39471	18467.1937	36	Marcellus
7	07/22/2021	18431.75344	18266.5524	36	Marcellus
8	07/23/2021	18231.11217	18065.9111	36	Marcellus
9	07/23/2021	18030.4709	17865.2698	36	Marcellus
10	07/23/2021	17829.82963	17664.6286	36	Marcellus
11	07/23/2021	17629.18836	17463.9873	36	Marcellus
12	07/24/2021	17428.54709	17263.346	36	Marcellus
13	07/24/2021	17227.90582	17062.7048	36	Marcellus
14	07/24/2021	17027.26455	16862.0635	36	Marcellus
15	07/24/2021	16826.62328	16661.4222	36	Marcellus
16	07/25/2021	16625.98201	16460.781	36	Marcellus
17	07/25/2021	16425.34074	16260.1397	36	Marcellus
18	07/25/2021	16224.69947	16059.4984	36	Marcellus
19	07/25/2021	16024.0582	15858.8571	36	Marcellus
20	07/26/2021	15823.41693	15658.2159	36	Marcellus
21	07/26/2021	15622.77566	15457.5746	36	Marcellus
22	07/26/2021	15422.13439	15256.9333	36	Marcellus
23	07/26/2021	15221.49312	15056.2921	36	Marcellus
24	07/27/2021	15020.85185	14855.6508	36	Marcellus
25	07/27/2021	14820.21058	14655.0095	36	Marcellus
26	07/27/2021	14619.56931	14454.3683	36	Marcellus
27	07/27/2021	14418.92804	14253.727	36	Marcellus
28	07/28/2021	14218.28677	14053.0857	36	Marcellus
29	07/28/2021	14017.6455	13852.4444	36	Marcellus
30	07/28/2021	13817.00423	13651.8032	36	Marcellus
31	07/28/2021	13616.36296	13451.1619	36	Marcellus
32	07/29/2021	13415.72169	13250.5206	36	Marcellus
33	07/29/2021	13215.08042	13049.8794	36	Marcellus
34	07/29/2021	13014.43915	12849.2381	36	Marcellus
35	07/29/2021	12813.79788	12648.5968	36	Marcellus
36	07/30/2021	12613.15661	12447.9556	36	Marcellus
37	07/30/2021	12412.51534	12247.3143	36	Marcellus
38	07/30/2021	12211.87407	12046.673	36	Marcellus
39	07/30/2021	12011.2328	11846.0317	36	Marcellus
40	07/31/2021	11810.59153	11645.3905	36	Marcellus
41	07/31/2021	11609.95026	11444.7492	36	Marcellus
42	07/31/2021	11409.30899	11244.1079	36	Marcellus
43	07/31/2021	11208.66772	11043.4667	36	Marcellus
44	07/31/2021	11008.02646	10842.8254	36	Marcellus
45	08/01/2021	10807.38519	10642.1841	36	Marcellus
46	08/01/2021	10606.74392	10441.5429	36	Marcellus
47	08/01/2021	10406.10265	10240.9016	36	Marcellus
48	08/01/2021	10205.46138	10040.2603	36	Marcellus
49	08/02/2021	10004.82011	9839.61905	36	Marcellus
50	08/02/2021	9804.178836	9638.97778	36	Marcellus
51	08/02/2021	9603.537566	9438.33651	36	Marcellus
52	08/03/2021	9402.896296	9237.69524	36	Marcellus
53	08/03/2021	9202.255026	9037.05397	36	Marcellus
54	08/03/2021	9001.613757	8836.4127	36	Marcellus
55	08/03/2021	8800.972487	8635.77143	36	Marcellus
56	08/04/2021	8600.331217	8435.13016	36	Marcellus
57	08/04/2021	8399.689947	8234.48889	36	Marcellus
58	08/04/2021	8199.048677	8033.84762	36	Marcellus
59	08/04/2021	7998.407407	7833.20635	36	Marcellus
60	08/05/2021	7797.766138	7632.56508	36	Marcellus
61	08/05/2021	7597.124868	7431.92381	36	Marcellus
62	08/05/2021	7396.483598	7231.28254	36	Marcellus
63	08/05/2021	7195.842328	7030.64127	36	Marcellus
64	08/06/2021	6995.201058	6830	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	07/19/2021	75.85	8323	5560	3191.16	182780	215624	N/A
2	07/20/2021	78.84	8465	5584	3793	408400	309438	N/A
3	07/21/2021	78.9	8654	5695	3570	406180	296750	N/A
4	07/21/2021	78.66	8579	5305	3383	403230	301179	N/A
5	07/21/2021	78.21	8409	5909	3600	404690	297577	N/A
6	07/22/2021	79.57	8373	5374	3309	404000	295277	N/A
7	07/22/2021	79.51	8544	6977	3142	400270	282593	N/A
8	07/23/2021	76.5	8413	6683	3554	406090	278943	N/A
9	07/23/2021	74.36	8794	6300	3659	402920	277700	N/A
10	07/23/2021	76.71	8841	6372	4094	406290	278691	N/A
11	07/23/2021	82.98	8712	7361	4230	405850	279650	N/A
12	07/24/2021	69.95	8761	6680	3510	404090	278532	N/A
13	07/24/2021	76.05	8464	5057	2851	406200	277355	N/A
14	07/24/2021	83.26	8492	7304	3324	404790	277317	N/A
15	07/24/2021	82.58	8783	6886	3494	406850	277687	N/A
16	07/25/2021	81.26	8731	5712	3848	404180	276540	N/A
17	07/25/2021	83.42	8757	7294	3973	405200	277136	N/A
18	07/25/2021	64.56	8430	7658	3522	405980	277227	N/A
19	07/25/2021	82.27	8288	6101	3650	408200	280979	N/A
20	07/26/2021	83.56	8446	5354	3439	404880	277806	N/A
21	07/26/2021	83.74	8398	6371	3459	402170	272482	N/A
22	07/26/2021	75.35	8436	7840	3228	405040	272714	N/A
23	07/26/2021	51.87	8424	6313	3976	404220	294101	N/A
24	07/27/2021	81.42	8478	5487	3372	405520	279585	N/A
25	07/27/2021	81	8393	5513	3680	404890	281931	N/A
26	07/27/2021	83.08	8368	7498	3500	404300	279434	N/A
27	07/27/2021	83.64	8434	7511	3615	403610	281935	N/A
28	07/28/2021	84.32	8537	5513	3457	283100	280599	N/A
29	07/28/2021	83.4	8192	6896	3590.7	404960	279036	N/A
30	07/28/2021	81.65	7828	5857	3700	405560	281817	N/A
31	07/28/2021	76.19	8137	6701	3413	403520	271264	N/A
32	07/29/2021	85.03	7882	6051	3691	406380	277872	N/A
33	07/29/2021	84.78	7558	6410	3640	406830	274438	N/A
34	07/29/2021	82.18	7399	5317	3727	401160	280291	N/A
35	07/29/2021	79.87	7406	6200	3852	403580	275693	N/A
36	07/30/2021	84.09	7420	6427	3396	409190	272057	N/A
37	07/30/2021	84.45	7482	6453	3560	400270	273013	N/A
38	07/30/2021	83.12	7436	6402	3433	403330	274693	N/A
39	07/30/2021	84.4	7509	6855	3715	403630	311198	N/A
40	07/31/2021	84.62	7463	7726	3662	400950	307560	N/A
41	07/31/2021	84.49	7320	7138	3897	402140	308050	N/A
42	07/31/2021	84.36	7355	7000	3642	404310	310821	N/A
43	07/31/2021	84.13	7429	6604	3690	407890	310560	N/A
44	07/31/2021	85	7583	6074	3892	404690	305953	N/A
45	08/01/2021	81.81	7507	7416	3623	406390	308415	N/A
46	08/01/2021	84.03	7296	5579	3670	409160	310245	N/A
47	08/01/2021	84.26	7288	6423	3690	407660	308563	N/A
48	08/01/2021	84.62	7260	7154	3996	402290	306667	N/A
49	08/02/2021	84.44	7095	6943	3842.57	407610	310657	N/A
50	08/02/2021	84.12	6998	5935	3760	407600	307804	N/A
51	08/02/2021	63.72	7553	5985	3541	405360	407763	N/A
52	08/03/2021	82.07	6778	6851	3536	406310	307808	N/A
53	08/03/2021	83.59	6603	6094	3546	411980	308083	N/A
54	08/03/2021	82.8	6621	7240	3734	405060	309320	N/A
55	08/03/2021	82.72	6525	6621	4005	409550	305946	N/A
56	08/04/2021	83.72	6687	7131	3829	406500	305666	N/A
57	08/04/2021	84.12	6554	6311	3679	410010	300889	N/A
58	08/04/2021	84.2	6338	6307	3579	408250	304966	N/A
59	08/04/2021	83.5	6248	5162	3770	409230	310592	N/A
60	08/05/2021	84.13	6396	5180	3800	404870	304653	N/A
61	08/05/2021	84.39	6368	6377	3742	404350	304491	N/A
62	08/05/2021	83.95	6179	5994	3871	403410	307391	N/A
63	08/05/2021	82.53	6170	6684	4158	408060	307978	N/A
64	08/06/2021	83.89	6148	6819	3882	404860	304626	N/A
	AVG=	81	7,730	6,399	3,643	25,600,820	18,713,621	TOTAL

API 47-095-02732 Farm Name Antero Resources Corporation Well Number Patty Unit 1H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Siltstone, Tr Shale	100	220	100	220
Shale	220	370	220	370
Shaley Siltstone	370	430	370	430
Limestone, Tr Shale	430	490	430	490
Siltstone, Tr Shale	490	640	490	640
Silty Sandstone	640	850	640	850
Shaley Siltstone	850	1,030	850	1,030
Shale, Tr Sandstone	1,030	1,090	1,030	1,090
Silty Shale, Tr Limestone	1,090	1,150	1,090	1,150
Sandy Shale	1,150	1,270	1,150	1,270
Sandstone, Tr Shale	1,270	1,450	1,270	1,450
Sandy Shale	1,450	1,630	1,450	1,630
Shaley Limestone	1,630	1,647	1,630	1,718
Big Lime	1,677	2,201	1,718	2,342
Fifty Foot Sandstone	2,201	2,452	2,312	2,616
Gordon	2,452	2,759	2,586	2,947
Fifth Sandstone	2,759	2,854	2,917	3,052
Bayard	2,854	3,710	3,022	4,022
Speechley	3,710	3,860	3,992	4,187
Balltown	3,860	4,343	4,157	4,721
Bradford	4,343	4,688	4,691	5,103
Benson	4,688	4,909	5,073	5,350
Alexander	4,909	5,950	5,320	6,572
Sycamore	5,824	6,033	6,398	6,542
Middlesex	5,920	6,057	6,542	6,710
Burkett	6,003	0	6,710	6,778
Marcellus	6,027	0	6,778	0

*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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/19/2021
Job End Date:	8/5/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02732-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	PATTY 1H
Latitude:	39.48580600
Longitude:	-80.97403900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,099
Total Base Water Volume (gal):	19,670,371
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	86.54413	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.05023	

OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Exceletrate LX-15	Halliburton	Friction Reducer					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
FLUID Enviro- Syn HCR-7000- WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			

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	13.31398
			Complex Amine Compound	Proprietary	60.00000	0.02441
			Proprietary	Proprietary	20.00000	0.01388
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01221
			Proprietary	Proprietary	10.00000	0.00694
			Guar gum	9000-30-0	100.00000	0.00583
			Hydrochloric acid	7647-01-0	30.00000	0.00535
			Glutaraldehyde	111-30-8	30.00000	0.00240
			Surfactant	Proprietary	5.00000	0.00203
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00203
			Ethoxylated alcohols	Proprietary	5.00000	0.00041
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00041
			Organic chloride compound	Proprietary	1.00000	0.00041
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00040
			Ammonium persulfate	7727-54-0	100.00000	0.00011
			Ethanol	64-17-5	1.00000	0.00008
			Methanol	67-56-1	100.00000	0.00003
			Oxylated phenolic resin	Proprietary	30.00000	0.00003
			Modified thiourea polymer	Proprietary	30.00000	0.00001
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001
			Acrylamide	79-06-1	0.01000	0.00000
			Organic salt #1	Proprietary	0.01000	0.00000
			Formaldehyde	50-00-0	0.01000	0.00000
			Nitrated acetate salt	Proprietary	0.01000	0.00000

			Organic salt #2	Proprietary	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Hexadecene	629-73-2	5.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

* 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)

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



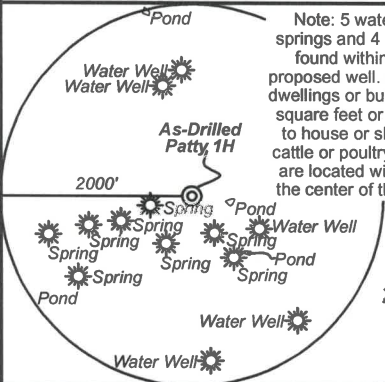
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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.

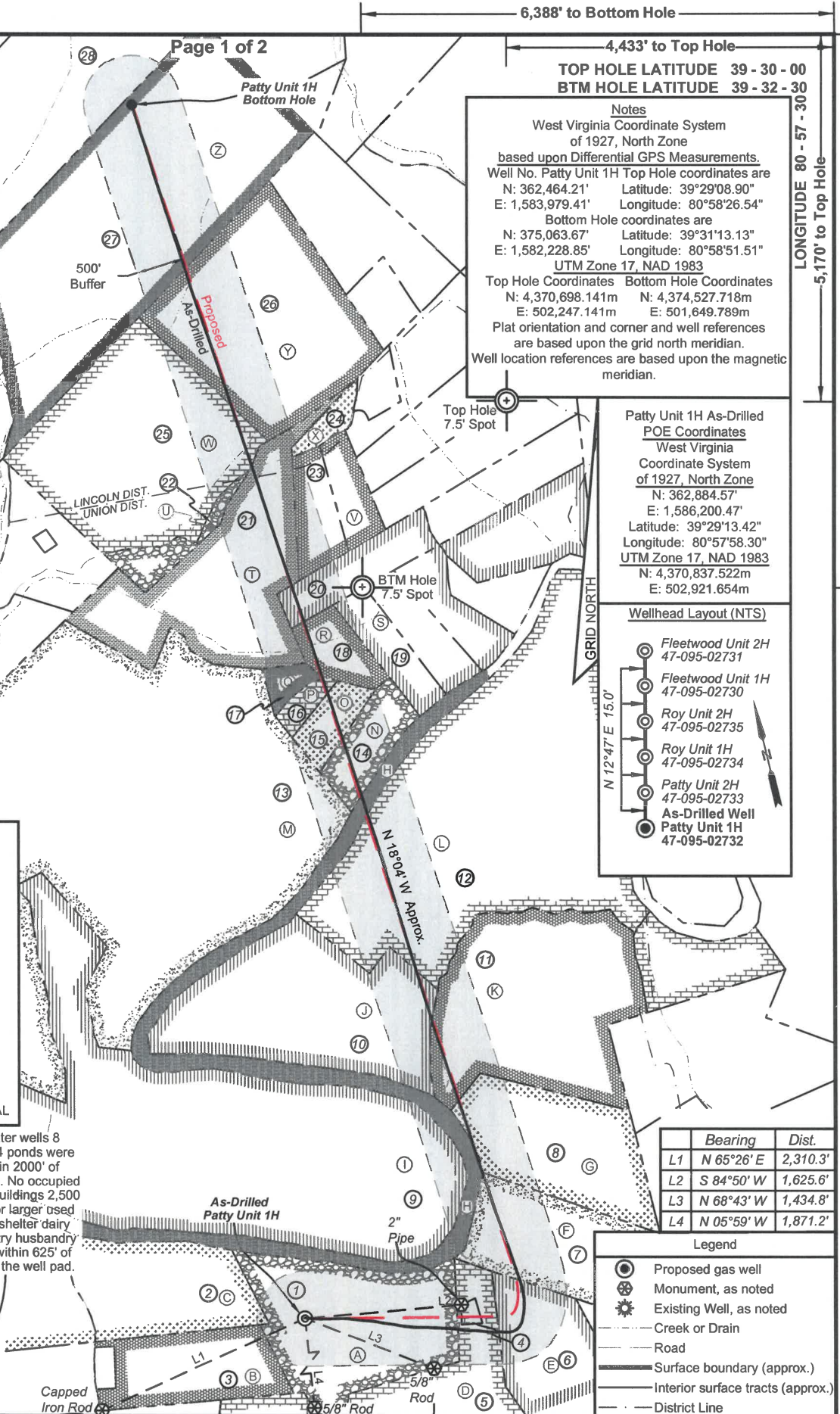
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



SEAL

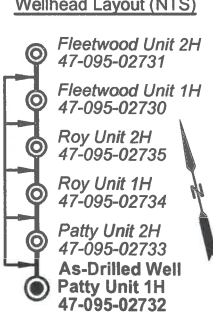


Note: 5 water wells 8 springs and 4 ponds were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Patty Unit 1H Top Hole coordinates are
 N: 362,464.21' Latitude: 39°29'08.90"
 E: 1,583,979.41' Longitude: 80°58'26.54"
 Bottom Hole coordinates are
 N: 375,063.67' Latitude: 39°31'13.13"
 E: 1,582,228.85' Longitude: 80°58'51.51"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,370,698.141m N: 4,374,527.718m
 E: 502,247.141m E: 501,649.789m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Patty Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 362,884.57' E: 1,586,200.47'
 Latitude: 39°29'13.42" Longitude: 80°57'58.30"
 UTM Zone 17, NAD 1983
 N: 4,370,837.522m E: 502,921.654m



	Bearing	Dist.
L1	N 65°26' E	2,310.3'
L2	S 84°50' W	1,625.6'
L3	N 68°43' W	1,434.8'
L4	N 05°59' W	1,871.2'

Legend

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

FILE NO: 197-54-M-18
 DRAWING NO: Patty Unit 1H As-Drilled
 SCALE: 1" = 1500'
 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: November 11 2021
 OPERATOR'S WELL NO. Patty 1H
 API WELL NO
 47 - 095 - 02732
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 57.23; 107.929;
 DISTRICT: Union/Lincoln Dena Raye Grimes; J&N Management Enterprises, LLC; WVDNR; Greenbrier Royalty Fund II, LLC; Arlen G. Jr., & Marsha A. Wells (5); COUNTY: Tyler 60.38; 26; 50; 53;
 SURFACE OWNER: Antero Resources Corp. Linda P. & Roy Henriksen; Margaret Conaway-Torok; ACREAGE: 60.38 78.49; 65.4620; 83.61;
 ROYALTY OWNER: Berna J. Hammel; H3, LLC; Leslie W. Potts; Lora Keller Thomas; Antero Minerals, LLC; LEASE NO: ACREAGE: 3.68; 8.3; 10.85; 15.0
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,011' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,625' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



Leases	
A	Berna J. Hammel
B	Sally & Mitchell Dunn
C	Maurice C. Grove
D	J&N Management Enterprises, LLC
E	H3 LLC
F	Leslie W. Potts
G	Lora Keller Thomas
H	WVDNR
I	OPEN
J	Jay Edward Smith
K	Antero Minerals, LLC
L	Norma R. Spencer
M	B. Douglas Haught
N	Arlen G., Jr. & Marsha A. Wells
O	Arlen G., Jr. & Marsha A. Wells
P	Arlen G., Jr. & Marsha A. Wells
Q	Arlen G., Jr. & Marsha A. Wells
R	Arlen G., Jr. & Marsha A. Wells
S	David S. Clough
T	Greenbrier Royalty Fund II, LLC
U	Julia Fetty Carolus
V	Everett E. Higgins, et ux
W	Linda P. & Roy Henriksen
X	Brian E. Higgins, et ux
Y	Dena Raye Grimes
Z	Margaret Conaway-Torok

ID	TM/Par	Owner	Bk/Pg	Acres
1	10-4.1	Antero Resources Corporation	OR12/739	60.38
2	9-9.1	Jennifer K. & Diane M. Thomas	AR 6/754	40.00
3	10-4	Kevin L. & Tammy J. Thomas	OR7/290	32.22
4	10-5.2	Rainelle M. Pratt, et al	WB56/619	1.01
5	10-5	Timothy Brian Bowen, et al	WB56/619	48.36
6	10-3	Joseph B. & Melanie Thomas	173/503	39.00
7	10-2	Mary Elizabeth Potts, et al	126/444	50.00
8	10-1	Lora K. Thomas	175/19	53.00
9	9-4	Steven D. Zechman & Linda M. Jensen	348/422	250.00
10	6-3	Eldon J. & Ruth A. Helman	383/761	72.88
11	6-2	Eldon J. & Ruth A. Helman	383/761	83.13
12	6-1	Eldon J. & Ruth A. Helman	383/761	169.00
13	5-16	Charity Gas Inc.	358/516	393.00
14	6-6.14	Arlen G. Wells, Jr.	339/611	15.00
15	6-6.15	Arlen G. Wells, Jr.	339/611	8.30
16	6-6.16	Arlen G. & Marsha A. Wells	357/380	3.68
17	6-6.17	Arlen G. & Marsha A. Wells	357/380	3.98
18	6-6.18	Arlen G. & Marsha A. Wells	357/382	10.85
19	6-6.13	David S. Clough	351/752	12.25
20	6-6.7	David S. Clough	351/752	16.35
21	6-4	Kathryn S. Lehman	379/562	67.00
22	6-5.3	Julia Fetty Carolus	323/587	2.50
23	6-6.2	Eathan P. Wells	445/727	11.85
24	6-6.1	Charles Young Jr. & Crystal Young	461/81	4.30
25	5-26	Paul R. Fetty	288/126	82.22
26	6-5	Linda Pryor & Roy Henriksen	637/558	83.60
27	14-1	Edward E. & Connie Howell	361/829	158.74
28	11-11	Thomas E. Bowen	374/636	119.75

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