

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

API 47-017-06947 County Doddridge District Southwest
Quad Oxford 7.5' Pad Name Locke Field/Pool Name -----
Farm name Antero Resources Corporation Well Number Stope 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 4336487m Easting 514372m
Landing Point of Curve Northing 4328264m Easting 542972m
Bottom Hole Northing 4333120m Easting 514698m

Elevation (ft) 1100.5' 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 1/30/2023 Date drilling commenced 3/2/2023 Date drilling ceased 4/22/2023
Date completion activities began 6/13/2023 Date completion activities ceased 7/31/2023
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 775, 781' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1733, 1750' 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:
KG-12/8/23
12/08/2023

API 47-017 - 06947 Farm name Antero Resources Corporation Well number Stope Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	451'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3051'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18528'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	7057'		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	204 sx	15.6	1.18	241	0'	8 Hrs.
Surface	Class A	418 sx	15.8	1.17	486	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1095 sx	15.8	1.16	1270	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1680 sx (Lead)	12.5 (Lead), 11.5 (Tail)	2.17 (Lead), 2.65 (Tail)	4452	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 21900' MD, 7000' TVD (BHL), ' (Deepest Point Drilled) Loggers TD (ft) 21900' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A RECEIVED
 Plug back procedure N/A Office of Oil and Gas
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Kick off depth (ft) 5757'

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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

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API 47- 017 - 06947 Farm name Antero Resources Corporation Well number Stope Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6460' (TOP)</u>	<u>TVD</u>	<u>7380' (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 1931 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 10547 mcfpd Oil 136 bpd NGL --- bpd Water 1054 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT NAME TVD</u>	<u>BOTTOM DEPTH IN FT TVD</u>	<u>TOP DEPTH IN FT MD</u>	<u>BOTTOM DEPTH IN FT MD</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
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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 GR Energy Services
Address 2315 PA-66 City Delmont State PA Zip 15626

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 Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 10/11/2023

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

12/08/2023

API 47-017-06947 Farm Name Antero Resources Corporation Well Number Stope Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	6/13/2023	18390.7	18346.6	60	Marcellus
2	6/14/2023	18308.91914	18142.5148	60	Marcellus
3	6/14/2023	18106.83395	17940.4296	60	Marcellus
4	6/14/2023	17904.74877	17738.3444	60	Marcellus
5	6/14/2023	17702.66358	17536.2593	60	Marcellus
6	6/14/2023	17500.5784	17334.1741	60	Marcellus
7	6/15/2023	17298.49321	17132.0889	60	Marcellus
8	6/15/2023	17096.40802	16930.0037	60	Marcellus
9	6/15/2023	16894.32284	16727.9185	60	Marcellus
10	6/15/2023	16692.23765	16525.8333	60	Marcellus
11	6/15/2023	16490.15247	16323.7481	60	Marcellus
12	6/16/2023	16288.06728	16121.663	60	Marcellus
13	6/16/2023	16085.9821	15919.5778	60	Marcellus
14	6/16/2023	15883.89691	15717.4926	60	Marcellus
15	6/16/2023	15681.81173	15515.4074	60	Marcellus
16	6/16/2023	15479.72654	15313.3222	60	Marcellus
17	6/17/2023	15277.64136	15111.237	60	Marcellus
18	6/17/2023	15075.55617	14909.1519	60	Marcellus
19	6/17/2023	14873.47099	14707.0667	60	Marcellus
20	6/17/2023	14671.3858	14504.9815	60	Marcellus
21	6/17/2023	14469.30062	14302.8963	60	Marcellus
22	6/17/2023	14267.21543	14100.8111	60	Marcellus
23	6/18/2023	14065.13025	13898.7259	60	Marcellus
24	6/18/2023	13863.04506	13696.6407	60	Marcellus
25	6/18/2023	13660.95988	13494.5556	60	Marcellus
26	6/18/2023	13458.87469	13292.4704	60	Marcellus
27	6/18/2023	13256.78951	13090.3852	60	Marcellus
28	6/18/2023	13054.70432	12888.3	60	Marcellus
29	6/18/2023	12852.61914	12686.2148	60	Marcellus
30	6/19/2023	12650.53395	12484.1296	60	Marcellus
31	6/19/2023	12448.44877	12282.0444	60	Marcellus
32	6/19/2023	12246.36358	12079.9593	60	Marcellus
33	6/19/2023	12044.2784	11877.8741	60	Marcellus
34	6/19/2023	11842.19321	11675.7889	60	Marcellus
35	6/19/2023	11640.10802	11473.7037	60	Marcellus
36	6/20/2023	11438.02284	11271.6185	60	Marcellus
37	6/20/2023	11235.93765	11069.5333	60	Marcellus
38	6/20/2023	11033.85247	10867.4481	60	Marcellus
39	6/20/2023	10831.76728	10665.363	60	Marcellus
40	6/20/2023	10629.6821	10463.2778	60	Marcellus
41	6/20/2023	10427.59691	10261.1926	60	Marcellus
42	6/21/2023	10225.51173	10059.1074	60	Marcellus
43	6/21/2023	10023.42654	9857.02222	60	Marcellus
44	6/21/2023	9821.341358	9654.93704	60	Marcellus
45	6/21/2023	9619.256173	9452.85185	60	Marcellus
46	6/21/2023	9417.170988	9250.76667	60	Marcellus
47	6/21/2023	9215.085802	9048.68148	60	Marcellus
48	6/22/2023	9013.000617	8846.5963	60	Marcellus
49	6/22/2023	8810.915432	8644.51111	60	Marcellus
50	6/22/2023	8608.830247	8442.42593	60	Marcellus
51	6/22/2023	8406.745062	8240.34074	60	Marcellus
52	6/22/2023	8204.659877	8038.25556	60	Marcellus
53	6/22/2023	8002.574691	7836.17037	60	Marcellus
54	6/22/2023	7800.489506	7634.08519	60	Marcellus
55	6/23/2023	7598.404321	7432	60	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	6/13/2023	81.5	8358.2	4855.0	3848.0	171530	5679.4	N/A
2	6/14/2023	87.1	8508.9	5348.7	3946.0	396600	7143.9	N/A
3	6/14/2023	90.7	8338.4	4768.0	3887.0	415350	7342.4	N/A
4	6/14/2023	92.0	8343.8	3173.8	3740.7	410800	7013.0	N/A
5	6/14/2023	95.0	8478.5	2963.5	3203.0	409000	7051.5	N/A
6	6/14/2023	92.9	8484.8	5475.9	3427.8	415060	7218.8	N/A
7	6/15/2023	92.1	8433.4	5384.1	3328.4	413690	7174.4	N/A
8	6/15/2023	95.3	8353.5	2935.9	3035.0	391850	6924.8	N/A
9	6/15/2023	96.5	8249.6	2838.7	3005.0	411570	6789.2	N/A
10	6/15/2023	97.6	8123.2	3083.0	3023.0	409050	6997.1	N/A
11	6/15/2023	96.3	8113.7	5258.5	3683.0	409030	7025.2	N/A
12	6/16/2023	97.0	7989.6	2910.0	3208.2	401270	6994.8	N/A
13	6/16/2023	97.8	7672.3	2800.6	3585.0	400170	6877.1	N/A
14	6/16/2023	94.7	8210.1	3035.3	2891.0	406920	7190.0	N/A
15	6/16/2023	96.5	8348.0	5613.5	3308.0	417890	7041.1	N/A
16	6/16/2023	95.2	8285.2	3322.7	3533.0	415440	7130.0	N/A
17	6/17/2023	96.3	8495.3	3216.9	3035.0	412860	7115.0	N/A
18	6/17/2023	97.0	7881.6	2913.1	3081.0	419310	7145.1	N/A
19	6/17/2023	98.2	7741.4	2656.1	2983.0	418880	7003.1	N/A
20	6/17/2023	97.6	8289.9	6246.3	3020.0	401130	6889.7	N/A
21	6/17/2023	97.9	8394.6	4731.3	3281.0	417960	7131.0	N/A
22	6/17/2023	97.2	8266.4	5426.7	3108.0	414930	7139.4	N/A
23	6/18/2023	98.9	8263.5	4209.7	3330.0	398280	6860.0	N/A
24	6/18/2023	97.4	7520.7	2720.3	3393.5	413520	7127.9	N/A
25	6/18/2023	98.1	8257.9	6815.0	2915.0	413450	7024.7	N/A
26	6/18/2023	97.5	7693.7	2716.4	2994.0	416850	7105.0	N/A
27	6/18/2023	97.8	8019.6	5838.2	2901.0	418390	7080.0	N/A
28	6/18/2023	97.4	8172.0	5964.0	3151.0	416400	7113.7	N/A
29	6/18/2023	97.2	8157.9	4879.8	3369.0	416590	7056.1	N/A
30	6/19/2023	96.8	8192.0	5983.2	3181.0	412960	7078.0	N/A
31	6/19/2023	96.6	8098.5	6728.9	3051.0	417360	7073.6	N/A
32	6/19/2023	98.1	7297.1	2836.5	2780.3	400460	6769.2	N/A
33	6/19/2023	92.9	7335.1	4818.6	2679.0	417710	8381.1	N/A
34	6/19/2023	97.2	6975.9	2344.4	2925.0	399940	6831.1	N/A
35	6/19/2023	96.9	7176.6	2256.1	2764.0	412960	7049.3	N/A
36	6/20/2023	98.2	7724.0	5641.9	3349.0	418730	7207.9	N/A
37	6/20/2023	90.9	7983.0	4115.8	2607.0	415740	7955.2	N/A
38	6/20/2023	91.1	7219.7	3172.5	2741.0	409980	7054.2	N/A
39	6/20/2023	95.9	7822.2	5482.3	2705.0	413310	7018.5	N/A
40	6/20/2023	97.0	7360.1	2469.0	2952.0	409880	6971.0	N/A
41	6/20/2023	95.6	7039.7	2153.0	2791.0	400660	6900.8	N/A
42	6/21/2023	98.1	7561.2	5088.0	2577.8	408380	6860.1	N/A
43	6/21/2023	98.9	7603.7	5290.2	2663.0	399260	6874.7	N/A
44	6/21/2023	97.0	7475.8	2885.7	2854.0	398500	6868.7	N/A
45	6/21/2023	95.1	7221.8	2946.6	2725.0	413800	6934.6	N/A
46	6/21/2023	97.4	7016.3	3037.6	2978.0	414380	6836.2	N/A
47	6/21/2023	97.7	7270.9	4555.7	3074.0	404810	6799.1	N/A
48	6/22/2023	94.5	6324.3	2236.9	2963.0	407290	7018.7	N/A
49	6/22/2023	97.1	6743.1	4044.5	2611.6	413030	6875.6	N/A
50	6/22/2023	97.9	6817.9	3513.7	2629.4	399960	6759.1	N/A
51	6/22/2023	97.6	6926.1	5269.2	2551.0	399375	6711.0	N/A
52	6/22/2023	97.8	6797.7	4616.3	2860.0	400970	6630.9	N/A
53	6/22/2023	97.0	6526.1	2952.7	2842.0	399250	6703.7	N/A
54	6/22/2023	99.0	6313.6	2297.0	2784.0	413000	6892.1	N/A
55	6/23/2023	98.9	6020.2	4654.2	2958.0	410980	6772.9	N/A
	AVERAGE	96	7,714	4,063	3,069	22,286,445	385,211	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
Sandstone	120	470	120	470
Sandy Siltstone	470	620	470	620
Siltstone, occ SS	620	770	620	770
Sandy Siltstone, occ LS	770	870	770	870
Siltstone, occ SS, tr LS	870	970	870	970
Silty Sandstone, tr shale	970	1,070	970	1,070
Sandstone	1,070	1,170	1,070	1,170
Silty Sandstone	1,170	1,270	1,170	1,270
Shaly Siltstone, tr coal	1,270	1,370	1,270	1,370
Sandy Siltstone, occ shale	1,370	1,620	1,370	1,620
Silty Sandstone, tr coal	1,620	1,870	1,620	1,870
Siltstone, occ LS	1,870	1,862	1,870	1,941
Big Lime	1,892	2,408	1,941	2,561
Fifty Foot Sandstone	2,408	2,534	2,531	2,704
Gordon	2,534	2,839	2,674	3,045
Fifth Sandstone	2,839	2,958	3,015	3,178
Bayard	2,958	3,649	3,148	3,969
Speechley	3,649	3,813	3,939	4,156
Balltown	3,813	4,434	4,126	4,847
Bradford	4,434	4,837	4,817	5,302
Benson	4,837	5,087	5,272	5,587
Alexander	5,087	6,301	5,557	6,999
Sycamore	6,089	6,271	6,724	6,969
Middlesex	6,271	6,388	6,969	7,197
Burkett	6,388	6,437	7,197	7,308
Tully	6,437	6,460	7,308	7,380
Marcellus	6,460	NA	7,380	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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/13/2023
Job End Date:	6/23/2023
State:	West Virginia
County:	Doddridge
API Number:	47-017-06947-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Stope 1H
Latitude:	39.17749600
Longitude:	-80.83360900
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,536
Total Base Water Volume (gal):	16,764,660
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				
			Water	7732-18-5	100.00000	86.30337	Density = 8.50
Ingredients	Listed Above	Listed Above	Water				
			Water	7732-18-5	100.00000	0.17168	

FDP-S1463-22	Halliburton	Friction Reducer					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
FDP-S1464-22	Halliburton	Friction Reducer					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
			RECEIVED Office of Oil and Gas	Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant	OCT 27 2023				
			WV Department of Environmental Protection	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	13.49756	
			Hydrochloric acid	7647-01-0	30.00000	0.03960	
			Complex amine compound	Proprietary	60.00000	0.01985	
			Hydrotreated distillate	Proprietary	30.00000	0.00993	
			Guar gum	9000-30-0	100.00000	0.00610	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.00578	
			Polyacrylate	Proprietary	30.00000	0.00578	
			Ethoxylated alcohol	Proprietary	5.00000	0.00262	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00262	
			Ammonium chloride	12125-02-9	5.00000	0.00262	
			Glutaraldehyde	111-30-8	30.00000	0.00249	
			INorganic salt	Proprietary	10.00000	0.00193	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00052	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00052	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00041	
			Methanol	67-56-1	100.00000	0.00025	
			Ammonium persulfate	7727-54-0	100.00000	0.00012	
			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	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	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)

RECEIVED
Office of Oil and Gas
OCT 27 2023
NY Department of
Environmental Protection

LATITUDE 39°12'30" 127'

LATITUDE 39°10'00"

10,894' TO BOTTOM HOLE

7,139' TO BOTTOM HOLE

1,261'

LONGITUDE 80°47'30"

LONGITUDE 80°50'00"

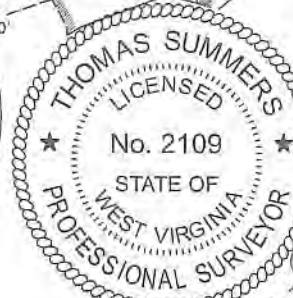
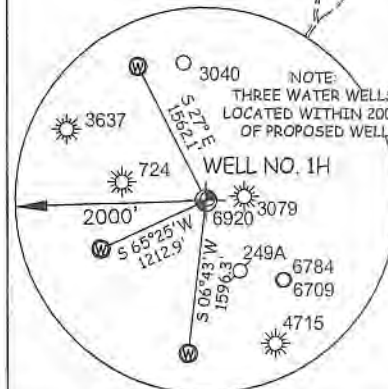
Antero Resources Corporation Well No. Stope #1H

AS DRILLED DATA: WELL 1H TOP HOLE INFORMATION: N: 249,535ft E: 1,621,894ft LAT: 39°10'38.69" LON: 80°50'01.61" BOTTOM HOLE INFORMATION: N: 238,467ft E: 1,622,780ft LAT: 39°08'49.44" LON: 80°49'48.28" 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 1H TOP HOLE INFORMATION: N: 4,336,487m E: 514,372m BOTTOM HOLE INFORMATION: N: 4,333,120m E: 514,698m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,226,578ft E: 1,687,522ft POINT OF ENTRY INFORMATION: N: 14,226,029ft E: 1,684,954ft BOTTOM HOLE INFORMATION: N: 14,215,530ft E: 1,688,592ft

WV NORTH ZONE GRID NORTH



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

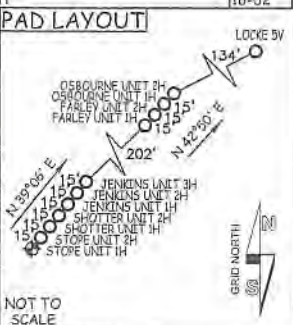


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

Table listing landowners and their acreage in the Southwest District - Doddridge County. Includes names like Larry Gander, John Walkus, Brian Prim, Robert Lee Brownfield Jr., etc.

JOB # 21-005WA DRAWING # STOPE1HAD 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. Includes signature of Thomas Summers and date 10/24/23.



NOTE: 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER... 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION...

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 017 - 06947 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,100.5' - AS BUILT WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE OXFORD 7.5 DISTRICT SOUTHWEST COUNTY DODDRIDGE SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 59.74 ACRES +/- LEASE ACREAGE 180 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 6,512' TVD 18,528' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD BRIDGEPORT, WV 26330

LATITUDE 39°12'30" 127'

LATITUDE 39°10'00"

10,894' TO BOTTOM HOLE

7,139' TO BOTTOM HOLE

11,261'

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Antero Resources Corporation Well No. Stope #1H

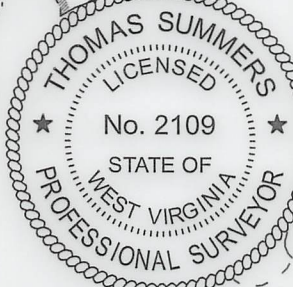
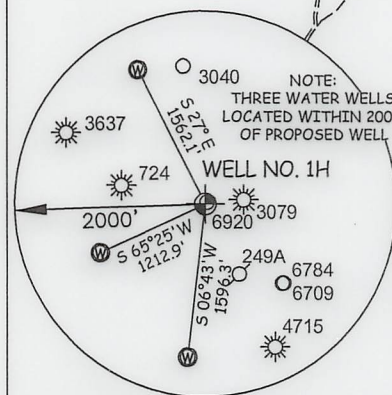
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WV NORTH ZONE GRID NORTH



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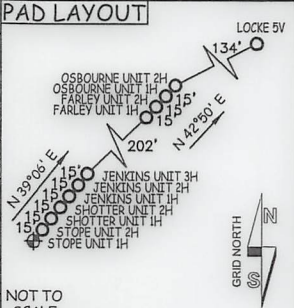
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

Table listing landowners and well numbers. Columns include owner names (e.g., LARRY GANDER, JOHN WAITKUS, ROBERT LEE BROWNFIELD JR.) and well numbers (e.g., 8-05, 9-07, 13-01).

JOB # 21-005WA DRAWING # STOPE1HAD 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 10/24/23 OPERATOR'S WELL# STOPE #1H



- NOTE: 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. WAS 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. 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 017 - 06947 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,100.5' - AS BUILT WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE OXFORD 7.5' DISTRICT SOUTHWEST COUNTY DODDRIDGE SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 59.74 ACRES +/- 12/08/2023 OIL & GAS ROYALTY OWNER E. W. OSBORNE ET AL LEASE ACREAGE 180 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 6,512' TVD 18,528' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD BRIDGEPORT, WV 26330