

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

API 47 - 017 - 06945 County Doddridge District Southwest
Quad Oxford 7.5' Pad Name Locke Field/Pool Name -----
Farm name Antero Resources Corporation Well Number Shotter 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 4336494m Easting 514378m
Landing Point of Curve Northing 4328359m Easting 543137m
Bottom Hole Northing 4333354m Easting 515151m

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 5/10/2023
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

Reviewed by:
KG-12/6/23
12/08/2023

API 47-017-06945 Farm name Antero Resources Corporation Well number Shotter 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"	357'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2910'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17758'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	6658'		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	1790 sx (Lead)	13 (Lead), 12 (Tail)	1.97 (Lead), 2.26 (Tail)	4045	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 20000' MD, 7000' TVD (BHL), * (Deepest Point Drilled) Loggers TD (ft) 20000' MD

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

Plug back procedure N/A

Kick off depth (ft) 5830'

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

API 47-017 - 06945 Farm name Antero Resources Corporation Well number Shotter Unit 1H

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Coal							
Intermediate 1	12-1/4"	9-5/8"	2910'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17758'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	6658'		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	1790 sx (Lead)	13 (Lead), 12 (Tail)	1.97 (Lead), 2.26 (Tail)	4045	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 20000' MD, 7000' TVD (BHL), (Deepest Point Drilled) Loggers TD (ft) 20000' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5830'

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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

12/08/2023

API 47-017-06945 Farm Name Antero Resources Corporation Well Number Shotter Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	6/13/2023	17629.8	17589.3	60	Marcellus
2	6/14/2023	17551.74245	17385.9547	60	Marcellus
3	6/15/2023	17350.39717	17184.6094	60	Marcellus
4	6/15/2023	17149.05189	16983.2642	60	Marcellus
5	6/15/2023	16947.7066	16781.9189	60	Marcellus
6	6/16/2023	16746.36132	16580.5736	60	Marcellus
7	6/16/2023	16545.01604	16379.2283	60	Marcellus
8	6/17/2023	16343.67075	16177.883	60	Marcellus
9	6/17/2023	16142.32547	15976.5377	60	Marcellus
10	6/18/2023	15940.98019	15775.1925	60	Marcellus
11	6/18/2023	15739.63491	15573.8472	60	Marcellus
12	6/19/2023	15538.28962	15372.5019	60	Marcellus
13	6/19/2023	15336.94434	15171.1566	60	Marcellus
14	6/20/2023	15135.59906	14969.8113	60	Marcellus
15	6/20/2023	14934.25377	14768.466	60	Marcellus
16	6/21/2023	14732.90849	14567.1208	60	Marcellus
17	6/21/2023	14531.56321	14365.7755	60	Marcellus
18	6/22/2023	14330.21792	14164.4302	60	Marcellus
19	6/22/2023	14128.87264	13963.0849	60	Marcellus
20	6/22/2023	13927.52736	13761.7396	60	Marcellus
21	6/23/2023	13726.18208	13560.3943	60	Marcellus
22	6/23/2023	13524.83679	13359.0491	60	Marcellus
23	6/23/2023	13323.49151	13157.7038	60	Marcellus
24	6/23/2023	13122.14623	12956.3585	60	Marcellus
25	6/24/2023	12920.80094	12755.0132	60	Marcellus
26	6/24/2023	12719.45566	12553.6679	60	Marcellus
27	6/24/2023	12518.11038	12352.3226	60	Marcellus
28	6/24/2023	12316.76509	12150.9774	60	Marcellus
29	6/25/2023	12115.41981	11949.6321	60	Marcellus
30	6/25/2023	11914.07453	11748.2868	60	Marcellus
31	6/25/2023	11712.72925	11546.9415	60	Marcellus
32	6/25/2023	11511.38396	11345.5962	60	Marcellus
33	6/25/2023	11310.03868	11144.2509	60	Marcellus
34	6/26/2023	11108.6934	10942.9057	60	Marcellus
35	6/26/2023	10907.34811	10741.5604	60	Marcellus
36	6/26/2023	10706.00283	10540.2151	60	Marcellus
37	6/26/2023	10504.65755	10338.8698	60	Marcellus
38	6/26/2023	10303.31226	10137.5245	60	Marcellus
39	6/27/2023	10101.96698	9936.17925	60	Marcellus
40	6/27/2023	9900.621698	9734.83396	60	Marcellus
41	6/27/2023	9699.276415	9533.48868	60	Marcellus
42	6/27/2023	9497.931132	9332.1434	60	Marcellus
43	6/28/2023	9296.585849	9130.79811	60	Marcellus
44	6/28/2023	9095.240566	8929.45283	60	Marcellus
45	6/28/2023	8893.895283	8728.10755	60	Marcellus
46	6/28/2023	8692.55	8526.76226	60	Marcellus
47	6/28/2023	8491.204717	8325.41698	60	Marcellus
48	6/29/2023	8289.859434	8124.0717	60	Marcellus
49	6/29/2023	8088.514151	7922.72642	60	Marcellus
50	6/29/2023	7887.168868	7721.38113	60	Marcellus
51	6/29/2023	7685.823585	7520.03585	60	Marcellus
52	6/29/2023	7484.478302	7318.69057	60	Marcellus
53	6/29/2023	7283.133019	7117.34528	60	Marcellus
54	6/29/2023	7081.787736	6916	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 (bbbls)	Amount of Nitrogen/ other (units)
1	6/13/2023	72.8	8214.4	7239.0	3070.7	172730	4987.5	N/A
2	6/14/2023	87.9	8524.0	5238.6	3691.0	407070	7238.7	N/A
3	6/15/2023	89.7	8428.5	5702.0	3120.3	410060	7382.4	N/A
4	6/15/2023	97.0	8559.8	2719.0	3323.0	414000	6803.0	N/A
5	6/15/2023	96.4	8616.2	3141.5	3060.4	405530	7036.3	N/A
6	6/16/2023	95.9	8513.3	5630.3	3171.0	409710	7183.0	N/A
7	6/16/2023	94.7	8433.8	3292.7	3380.0	407100	7135.9	N/A
8	6/17/2023	97.7	8361.6	5913.2	3474.0	408290	7010.1	N/A
9	6/17/2023	94.9	8436.6	5241.5	3568.0	410690	7081.7	N/A
10	6/18/2023	96.9	8229.9	2940.8	3681.0	407240	7063.1	N/A
11	6/18/2023	96.0	8325.2	4976.1	3505.0	399960	6944.8	N/A
12	6/19/2023	98.4	8497.3	2740.2	3437.0	418760	7076.4	N/A
13	6/19/2023	96.7	8350.6	2952.8	3579.0	406530	6953.1	N/A
14	6/20/2023	96.2	8294.2	3132.3	3481.0	415200	7125.5	N/A
15	6/20/2023	96.7	8134.3	2850.0	3298.0	414310	7144.6	N/A
16	6/21/2023	97.1	8458.4	2749.0	3069.0	414000	7079.6	N/A
17	6/21/2023	95.5	8601.2	6168.3	2953.0	414700	7002.7	N/A
18	6/22/2023	97.0	8316.4	2655.0	3199.0	412120	7116.4	N/A
19	6/22/2023	97.5	8115.6	3317.0	3112.0	413505	7083.2	N/A
20	6/22/2023	98.2	8058.1	3757.2	3114.0	417250	7076.0	N/A
21	6/23/2023	97.2	8438.3	5252.1	3055.0	398890	7022.0	N/A
22	6/23/2023	97.1	8285.4	6325.4	2967.0	409120	6987.1	N/A
23	6/23/2023	93.8	8552.7	6962.7	3052.0	417100	7112.9	N/A
24	6/23/2023	96.9	8252.2	5557.8	3026.0	412570	6978.0	N/A
25	6/24/2023	94.2	8596.6	5697.2	3028.0	410380	7029.6	N/A
26	6/24/2023	91.7	8101.5	6270.7	2829.0	399380	8906.0	N/A
27	6/24/2023	95.7	7801.2	4051.5	3013.0	398700	6864.0	N/A
28	6/24/2023	97.6	8187.6	5771.7	3012.0	397230	6790.8	N/A
29	6/25/2023	99.3	8444.0	5727.4	2862.0	396130	6793.8	N/A
30	6/25/2023	96.5	8356.5	5754.3	2842.0	417360	7025.5	N/A
31	6/25/2023	96.7	8265.9	6538.1	2749.0	401050	6943.6	N/A
32	6/25/2023	96.8	8113.1	6645.0	2905.0	412990	6945.5	N/A
33	6/25/2023	98.0	7844.9	5536.2	3126.0	400530	6931.5	N/A
34	6/26/2023	97.9	7843.0	4680.0	3166.0	397810	6825.8	N/A
35	6/26/2023	97.3	8038.5	5496.0	2992.0	398150	6813.7	N/A
36	6/26/2023	97.2	7907.8	6151.7	2888.0	415210	6998.5	N/A
37	6/26/2023	97.2	7885.9	6309.8	2974.0	408620	6867.2	N/A
38	6/26/2023	98.5	7651.2	6045.1	2762.0	400000	6773.1	N/A
39	6/27/2023	99.1	7820.1	4830.0	2927.0	414810	6941.2	N/A
40	6/27/2023	96.7	7691.5	5576.6	2624.4	412080	6948.2	N/A
41	6/27/2023	94.7	7366.5	3776.8	2809.0	402910	6726.0	N/A
42	6/27/2023	98.2	7568.8	5923.4	3241.0	416580	6925.0	N/A
43	6/28/2023	97.3	7287.6	4885.9	3139.0	413750	6927.0	N/A
44	6/28/2023	99.7	7488.6	5937.1	2704.1	413520	7051.2	N/A
45	6/28/2023	96.5	7322.2	6051.1	2798.0	412020	6870.9	N/A
46	6/28/2023	96.8	7306.7	4850.3	2832.0	394820	6662.7	N/A
47	6/28/2023	98.5	7297.4	6429.3	2763.0	414530	6791.8	N/A
48	6/29/2023	98.7	7342.0	4297.6	2960.0	398440	6666.8	N/A
49	6/29/2023	97.5	7039.3	3801.1	2948.0	397140	6708.7	N/A
50	6/29/2023	95.8	6788.3	4761.8	2779.7	412150	7165.1	N/A
51	6/29/2023	97.1	6926.5	4767.2	2964.0	412820	7140.5	N/A
52	6/29/2023	97.5	7151.7	5120.5	2838.0	409500	7115.5	N/A
53	6/29/2023	97.1	6776.7	5479.1	2856.0	412360	7308.0	N/A
54	6/29/2023	99.2	6855.7	5934.8	2965.0	396300	6961.0	N/A
AVERAGE		96	7,964	4,992	3,068	21,803,705	377,042	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
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	1,851	1,870	1,870
Big Lime	1,881	2,402	1,870	2,431
Fifty Foot Sandstone	2,402	2,532	2,401	2,564
Gordon	2,532	2,831	2,534	2,871
Fifth Sandstone	2,831	2,968	2,841	3,012
Bayard	2,968	3,650	2,982	3,719
Speechley	3,650	3,807	3,689	3,883
Balltown	3,807	4,428	3,853	4,525
Bradford	4,428	4,834	4,495	4,943
Benson	4,834	5,077	4,913	5,194
Alexander	5,077	6,313	5,164	6,507
Sycamore	6,103	6,283	6,257	6,477
Middlesex	6,283	6,398	6,477	6,669
Burkett	6,398	6,446	6,669	6,776
Tully	6,446	6,474	6,776	6,864
Marcellus	6,474	NA	6,864	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:	6/29/2023
State:	West Virginia
County:	Doddridge
API Number:	47-017-06945-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Shotter 1H
Latitude:	39.17755900
Longitude:	-80.83354000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,539
Total Base Water Volume (gal):	16,359,580
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	86.28113	Density = 8.50
Ingredients	Listed Above	Listed Above	Water				
				7732-18-5	100.00000	0.16903	

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FDP-S1464-22	Halliburton	Friction Reducer					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				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	13.52462	
			Hydrochloric acid	7647-01-0	30.00000	0.03914	
			Complex amine compound	Proprietary	60.00000	0.03024	

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			Hydrotreated distillate	Proprietary	30.00000	0.01512	
			Guar gum	9000-30-0	100.00000	0.00474	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00252	
			Ammonium chloride	12125-02-9	5.00000	0.00252	
			Ethoxylated alcohol	Proprietary	5.00000	0.00252	
			Glutaraldehyde	111-30-8	30.00000	0.00250	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00050	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00050	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Methanol	67-56-1	100.00000	0.00025	
			Ammonium persulfate	7727-54-0	100.00000	0.00009	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00007	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	
			Hexadecene	629-73-2	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			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)

WV Department of
Environmental Protection

OCT 27 2023

RECEIVED
Office of Oil and Gas

LATITUDE 39°12'30" 108'

LATITUDE 39°10'00"

9,408' TO BOTTOM HOLE

6,376' TO BOTTOM HOLE

11,238'

LONGITUDE 80°47'30"

LONGITUDE 80°50'00"

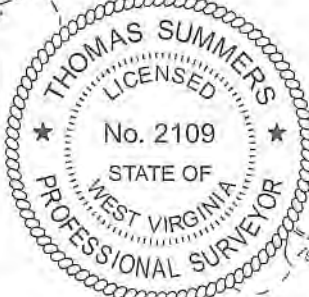
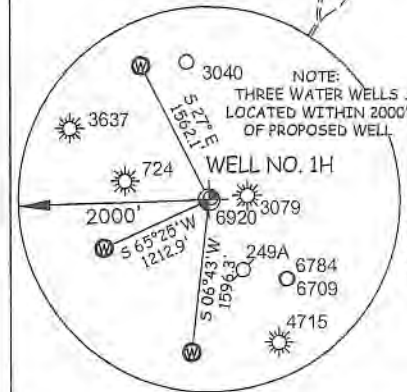
Antero Resources Corporation Well No. Shotter #1H

AS DRILLED DATA: WELL 1H TOP HOLE INFORMATION: N: 249,558ft E: 1,621,913ft LAT: 39°10'38.92" LON: 80°50'01.37" BOTTOM HOLE INFORMATION: N: 239,209ft E: 1,624,277ft LAT: 39°08'56.98" LON: 80°49'29.42" 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: 4,336,494m E: 514,378m BOTTOM HOLE INFORMATION: N: 4,333,354m E: 515,151m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,226,601ft E: 1,687,540ft POINT OF ENTRY INFORMATION: N: 14,226,578ft E: 1,686,588ft BOTTOM HOLE INFORMATION: N: 14,216,269ft E: 1,690,076ft

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.

Table listing landowners and leaseholders in the southwest district of Doddridge County, West Virginia, including names like Larry Gander, John Waitkus, Brian Prim, Robert Lee Brownfield Jr., etc.



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

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

JOB # 21-005WA DRAWING # SHOTTER1HAD SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

PAD LAYOUT



- 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. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES. 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 10/24/23 OPERATOR'S WELL # SHOTTER UNIT #1H

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 - 017 - 06945 (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+ 12/08/2023

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 6,500' TVD 17,758' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

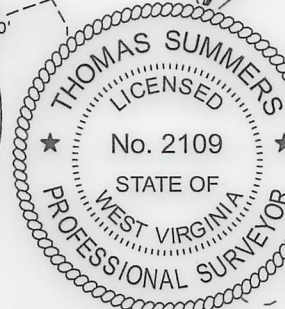
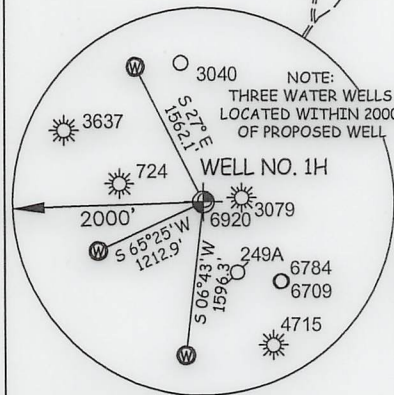
Antero Resources Corporation
Well No. Shotter #1H

AS DRILLED DATA:
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LAT: 39°10'38.92" LON: 80°50'01.37"
BOTTOM HOLE INFORMATION:
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LAT: 39°08'56.98" LON: 80°49'29.42"
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.

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WV NORTH ZONE
GRID NORTH



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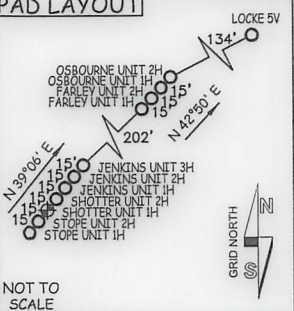


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

SOUTHWEST DISTRICT - DODDRIDGE COUNTY		13-01	MANSFIELD LEESON
8-05	LARRY GANDER	13-03	HUNTER JENKINS
8-06	JOHN WAITKUS	13-04	JACQUELINE PAYNE
9-07	BRIAN PRIM	13-10	HAROLD HINZMAN
9-08	ROBERT LEE BROWNFIELD JR.	13-21	ERNEST SEEDS
9-09	ANTERO RESOURCES CORPORATION	13-22	MICHAEL MCCLOY
9-10	DELBERT OSBORNE	13-23	DANA LONG
9-11	STEPHEN HARRIS	13-25	DANA LONG
9-11.1	DELBERT OSBORNE	13-42	JAMES HAUGHT
9-13	ANTHONY RAMEY	13-46	JAMES HAUGHT
9-13.1	GARY SANCHEZ	13-47	FLOYD STOUT JR.
9-14	KERRY JUNKINS	13-48	JUDITH MORAN
9-15	ROBERT LEE BROWNFIELD JR.	13-52	STEVEN ADAMS
9-16	HUNTER JENKINS	13-55	DANA LONG
12-01	DAVID BALL JR.	13-71	ROBERT LEE BROWNFIELD JR.
12-05	DAVID BALL JR.	16-01	COY ADAMS
12-06	JAMES HAUGHT	16-02	UTAHONA WILLIAMS

JOB # 21-005WA
DRAWING # SHOTTER1HAD
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
--- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
○ Proposed Well Path
⊗ As Drilled Well Path
Thomas Summers
THOMAS SUMMERS P.S. 2109
DATE 10/24/23
OPERATOR'S WELL# SHOTTER UNIT #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.
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SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 59.74 ACRES +/-
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 6,500' TVD 17,758' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD
FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

12/08/2023