

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

API 47-095-02578 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Ferrell Pad Field/Pool Name ----
Farm name Antero Resources Midstream LLC Well Number Remo 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 4369220.014m Easting 507025.907m
Landing Point of Curve Northing 4369180.31m Easting 506528.30m
Bottom Hole Northing 4373030.975m Easting 505201.421m

Elevation (ft) 757.5' ~~731.4'~~ 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 1/25/2019 ^{3/5/2019} Date drilling commenced 5/19/2019 Date drilling ceased 9/15/2019
Date completion activities began 1/9/2020 Date completion activities ceased 2/1/2020
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft 194', 243' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1224', 1347' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 770' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

API 47- 095 - 02578 Farm name Antero Resources Midstream LLC Well number Remo 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"	95'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	379'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2620'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	20092'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6410'		4.7#, N-80		
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	244	0'	8 Hrs.
Surface	Class A	350 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	910 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 2822 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	2819	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 20112' MD, 6026' TVD (BHL), 6027' (Deepest Point Drilled) Loggers TD (ft) 20112' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5500'

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47-095 - 02578 Farm name Antero Resources Midstream LLC Well number Remo Unit 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6010' (TOP)	TVD	6481' (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 1115 mcfpd Oil 534 bpd NGL --- bpd Water 1073 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**

Please insert additional pages as applicable.

Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Nine Energy Services
Address 125 Museum Road City Washington State PA Zip 15301

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature  Title Permitting Agent Date 0/19/20

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

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/7/2019	19991	19946	60	Marcellus
2	12/8/2019	19907.64179	19742.8507	60	Marcellus
3	12/8/2019	19707.49254	19542.7015	60	Marcellus
4	12/9/2019	19507.34328	19342.5522	60	Marcellus
5	12/9/2019	19307.19403	19142.403	60	Marcellus
6	12/9/2019	19107.04478	18942.2537	60	Marcellus
7	12/10/2019	18906.89552	18742.1045	60	Marcellus
8	12/10/2019	18706.74627	18541.9552	60	Marcellus
9	12/10/2019	18506.59701	18341.806	60	Marcellus
10	12/11/2019	18306.44776	18141.6567	60	Marcellus
11	12/11/2019	18106.29851	17941.5075	60	Marcellus
12	12/11/2019	17906.14925	17741.3582	60	Marcellus
13	12/11/2019	17706	17541.209	60	Marcellus
14	12/12/2019	17505.85075	17341.0597	60	Marcellus
15	12/12/2019	17305.70149	17140.9104	60	Marcellus
16	12/12/2019	17105.55224	16940.7612	60	Marcellus
17	12/13/2019	16905.40299	16740.6119	60	Marcellus
18	12/13/2019	16705.25373	16540.4627	60	Marcellus
19	12/13/2019	16505.10448	16340.3134	60	Marcellus
20	12/14/2019	16304.95522	16140.1642	60	Marcellus
21	12/14/2019	16104.80597	15940.0149	60	Marcellus
22	12/14/2019	15904.65672	15739.8657	60	Marcellus
23	12/15/2019	15704.50746	15539.7164	60	Marcellus
24	12/15/2019	15504.35821	15339.5672	60	Marcellus
25	12/15/2019	15304.20896	15139.4179	60	Marcellus
26	12/16/2019	15104.0597	14939.2687	60	Marcellus
27	12/16/2019	14903.91045	14739.1194	60	Marcellus
28	12/16/2019	14703.76119	14538.9701	60	Marcellus
29	12/16/2019	14503.61194	14338.8209	60	Marcellus
30	12/17/2019	14303.46269	14138.6716	60	Marcellus
31	12/17/2019	14103.31343	13938.5224	60	Marcellus
32	12/18/2019	13903.16418	13738.3731	60	Marcellus
33	12/18/2019	13703.01493	13538.2239	60	Marcellus
34	12/18/2019	13502.86567	13338.0746	60	Marcellus
35	12/18/2019	13302.71642	13137.9254	60	Marcellus
36	12/18/2019	13102.56716	12937.7761	60	Marcellus
37	12/19/2019	12902.41791	12737.6269	60	Marcellus
38	12/19/2019	12702.26866	12537.4776	60	Marcellus
39	12/19/2019	12502.1194	12337.3284	60	Marcellus
40	12/19/2019	12301.97015	12137.1791	60	Marcellus
41	12/20/2019	12101.8209	11937.0299	60	Marcellus
42	12/20/2019	11901.67164	11736.8806	60	Marcellus
43	12/20/2019	11701.52239	11536.7313	60	Marcellus
44	12/20/2019	11501.37313	11336.5821	60	Marcellus
45	12/21/2019	11301.22388	11136.4328	60	Marcellus
46	12/22/2019	11101.07463	10936.2836	60	Marcellus
47	12/23/2019	10900.92537	10736.1343	60	Marcellus
48	12/23/2019	10700.77612	10535.9851	60	Marcellus
49	12/23/2019	10500.62687	10335.8358	60	Marcellus
50	12/24/2019	10300.47761	10135.6866	60	Marcellus
51	12/24/2019	10100.32836	9935.53731	60	Marcellus
52	12/24/2019	9900.179104	9735.38806	60	Marcellus
53	12/24/2019	9700.029851	9535.23881	60	Marcellus
54	12/24/2019	9499.880597	9335.08955	60	Marcellus
55	12/25/2019	9299.731343	9134.9403	60	Marcellus
56	12/25/2019	9099.58209	8934.79104	60	Marcellus
57	12/25/2019	8899.432836	8734.64179	60	Marcellus
58	12/25/2019	8699.283582	8534.49254	60	Marcellus
59	12/26/2019	8499.134328	8334.34328	60	Marcellus
60	12/26/2019	8298.985075	8134.19403	60	Marcellus
61	12/26/2019	8098.835821	7934.04478	60	Marcellus
62	12/26/2019	7898.686567	7733.89552	60	Marcellus
63	12/26/2019	7698.537313	7533.74627	60	Marcellus
64	12/27/2019	7498.38806	7333.59701	60	Marcellus
65	12/27/2019	7298.238806	7133.44776	60	Marcellus
66	12/27/2019	7098.089552	6933.29851	60	Marcellus
67	12/27/2019	6897.940299	6733.14925	60	Marcellus
68	12/27/2019	6697.791045	6533	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	12/7/2019	71.91321	7560.517	9440	4212	173800	5942.286	N/A
2	12/8/2019	74.05011	7914.821	5686	4028	402920	7248.646	N/A
3	12/8/2019	79.64665	8185.069	5768	3903	401360	7340.24	N/A
4	12/9/2019	80.47129	8509.766	5773	4256	405680	7373.93	N/A
5	12/9/2019	78.27037	8398.315	5229	3490	409059.9602	8160.92	N/A
6	12/9/2019	78.71892	8033.273	5580	3725	401980	9185.87	N/A
7	12/10/2019	80.67603	8397.759	5864	3696	399980	7204.9	N/A
8	12/10/2019	75.70955	8342.708	6085	3490	401080	7168.89	N/A
9	12/10/2019	79.35776	8434.031	6371	3734	401480	7134.07	N/A
10	12/11/2019	83.02324	8560.439	5582	3571	410720	7192.46	N/A
11	12/11/2019	67.70549	8587.79	5952	3366	412680	8376.24	N/A
12	12/11/2019	77.82361	8326.981	6009	3971	404460	9539.6	N/A
13	12/11/2019	77.91988	8277.118	5978	3706	401700	7117.24	N/A
14	12/12/2019	78.95455	8277.818	5774	3582	401260	7150.2	N/A
15	12/12/2019	77.57882	8096.734	5409	4480	405140	13880.89	N/A
16	12/12/2019	74.57396	8308.822	6189	3492	400400	7106.58	N/A
17	12/13/2019	79.50533	8074.675	6030	3545	403700	7113.45	N/A
18	12/13/2019	83.5551	8246.537	5422	3575	414420	7117.63	N/A
19	12/13/2019	84.26815	8448.317	5485	4080	408840	7177.25	N/A
20	12/14/2019	68.59405	8480.422	6665	3901	405460	8321.24	N/A
21	12/14/2019	83.0317	8217.662	5712	4045	408020	7199.33	N/A
22	12/14/2019	83.89531	7988.202	4487	4337	412000	7204.52	N/A
23	12/15/2019	82.4764	8302.48	5729	4100	405460	7373	N/A
24	12/15/2019	81.85134	8328.059	4473	3798	411040	7171.32	N/A
25	12/15/2019	81.78213	8214.951	5731	3750	412700	7140.7	N/A
26	12/16/2019	76.69078	8211.6	6043	3523	412960	7210.05	N/A
27	12/16/2019	81.01576	8220.575	6055	3981	412600	7732.27	N/A
28	12/16/2019	84.76542	8312.161	5911	3712	406660	7069.44	N/A
29	12/16/2019	85.78504	8000.316	5504	3689	414600	7072.93	N/A
30	12/17/2019	84.7784	7826.644	5954	3652	405820	6973.79	N/A
31	12/17/2019	83.58496	7999.074	5871	3783	404740	7368.9	N/A
32	12/18/2019	82.56092	7608.398	5758	3611	407080	6996.79	N/A
33	12/18/2019	81.86141	7555.321	5252	3723	406000	6960.64	N/A
34	12/18/2019	82.74625	7453.745	5429	3785	405440	7026.9	N/A
35	12/18/2019	82.16198	7535.699	5560	3801	411600	7094.3	N/A
36	12/18/2019	79.75919	7558.909	6148	3668	402340	6956.55	N/A
37	12/19/2019	80.22266	7502.586	5532	3738	403360	6820.23	N/A
38	12/19/2019	85.76242	7867.211	5311	3599	408360	6871.51	N/A
39	12/19/2019	81.67995	7512.114	5805	4060	406640	7058.89	N/A
40	12/19/2019	81.74389	7820.52	5834	3900	406560	6944	N/A
41	12/20/2019	83.0489	7806.091	5713	3901	401930	6977.27	N/A
42	12/20/2019	83.63578	7674.801	5871	3914	405080	6888.07	N/A
43	12/20/2019	82.73819	7501.829	5662	3379	409360	7054.64	N/A
44	12/20/2019	83.34627	7478.626	6101	3580	412300	7000.47	N/A
45	12/21/2019	81.44719	7426.856	5911	3513	410300	6922.79	N/A
46	12/22/2019	83.59278	7512.332	5352	3602	409860	7018.58	N/A
47	12/23/2019	79.97783	8427.212	4257	4006	411740	6930.08	N/A
48	12/23/2019	71.66961	8310.424	5657	3966	409260	6943.55	N/A
49	12/23/2019	85.01498	7593.653	5833	3790	412960	7028.01	N/A
50	12/24/2019	86.14168	7532.647	5903	3988	411720	6970.84	N/A
51	12/24/2019	84.78838	7420.012	5256	4058	408580	6875.39	N/A
52	12/24/2019	83.87403	7354.935	5264	4107	410800	6813.9	N/A
53	12/24/2019	84.79915	7463.154	5263	4151	409400	6883.49	N/A
54	12/24/2019	83.88457	7392.603	5738	4099	409860	6952.83	N/A
55	12/25/2019	84.56904	7363.776	5822	4121	408720	6935.1	N/A
56	12/25/2019	86.65492	7413.857	6044	4099	407500	6770.56	N/A
57	12/25/2019	86.03441	7179.207	6063	4097	409300	6832.59	N/A
58	12/25/2019	82.65747	7248.743	5660	3856	410820	6906.59	N/A
59	12/26/2019	80.53757	7150.408	5457	3957	411700	7033.6	N/A
60	12/26/2019	85.45887	7067.171	5501	4109	412380	6815.24	N/A
61	12/26/2019	85.81865	7123.992	6362	3908	408720	6807.6	N/A
62	12/26/2019	84.94689	6993.485	6137	3779	403940	6807.45	N/A
63	12/26/2019	84.38229	6833.672	6037	3679	401360	6819.28	N/A
64	12/27/2019	85.57749	6642.735	5940	3409	410040	6780.66	N/A
65	12/27/2019	86.99703	6682.524	6173	3637	412520	6804.21	N/A
66	12/27/2019	86.52923	6668.149	6263	3586	409900	6783.49	N/A
67	12/27/2019	85.79546	6710.221	6713	3767	413240	6778.21	N/A
68	12/27/2019	82.46582	6283.63	5839	3657	411060	6810.27	N/A
	AVG=	79.8	8,133	5,831	3,797	14,405,180	271,404	TOTAL

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LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Silty Sandstone	75	175	75	175
Siltstone	175	275	175	275
Shaly Siltstone	275	335	275	335
Silty Shale	335	555	335	555
Silty Sandstone	555	575	555	575
Shale	575	955	575	955
Shaly Sandstone	955	1,035	955	1,035
Sandstone	1,035	1,215	1,035	1,215
Sandy Shale	1,215	1,255	1,215	1,255
Shaly Siltstone	1,255	1,315	1,255	1,315
Sandstone	1,315	1,435	1,315	1,435
Shaly Sandstone	1,435	1,515	1,435	1,515
Sandy Shale	1,515	1,533	1,515	N/A
Big Lime	1,548	2,117	1,554	2,162
Fifty Foot Sandstone	2,117	2,349	2,147	2,403
Gordon	2,349	2,653	2,388	2,719
Fifth Sandstone	2,653	2,748	2,704	2,817
Bayard	2,748	3,584	2,802	3,690
Speechley	3,584	3,724	3,675	3,835
Balltown	3,724	4,222	3,820	4,352
Bradford	4,222	4,530	4,337	4,674
Benson	4,530	4,903	4,659	5,062
Alexander	4,903	5,911	5,047	6,200
Sycamore	5,783	5,881	6,037	6,170
Middlesex	5,881	5,971	6,185	6,355
Burkett	5,971	5,992	6,370	6,414
Tully	5,992	6,010	6,429	6,481
Marcellus	6,010	NA	6,481	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:	12/7/2019
Job End Date:	12/27/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02578-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Remo 1H
Latitude:	39.47246110
Longitude:	-80.91848611
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,071
Total Base Water Volume (gal):	21,908,494
Total Base Non Water Volume:	0



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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
Water	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	86.61935	
CalGel 4000	CWS	Gel Slurry					
				Listed Below			

SaniFrac 8123	CWS	Microbiocide											
						Listed Below							
DynaRate 6522	CWS	Friction Reducer											
						Listed Below							
Calbreak 5501	CWS	Breaker											
						Listed Below							
Sand (Proppant)	CWS	Propping Agent											
						Listed Below							
CI-9100G	CWS	Corrosion Inhibitor											
						Listed Below							
Hydrochloric Acid	CWS	Clean Perforations											
						Listed Below							
Other Chemical (s)	Listed Above	See Trade Name (s) List											
						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							13.02718	
			Illite	12173-60-3	1.00000							0.13026	
			Hydrochloric acid	7647-01-0	37.00000							0.11162	
			Copolymer of 2-propenamide	69418-26-4	30.00000							0.01735	
			Ilmenite	98072-94-7	0.10000							0.01303	

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WY Dept. of Environmental Protection

			isopropyl alcohol	67-63-0	5.00000	0.00001
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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

SEP 24 2020

WV Department of
Environmental Protection

ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Ferrill North Pad

Slot: Slot #06
 Well: Remo Unit 1H
 Wellbore: Remo Unit 1H PWB

Plot reference wellpath is Remo Unit 1H PWB Rev-A.0
 True vertical depths are referenced to H&P 519 (RKB)
 Measured depths are referenced to H&P 519 (RKB)
 H&P 519 (RKB) to Mean Sea Level: 787 feet
 Mean Sea Level to Ground level (At Slot Slot #06): -757 feet
 Coordinates are in feet referenced to Slot.

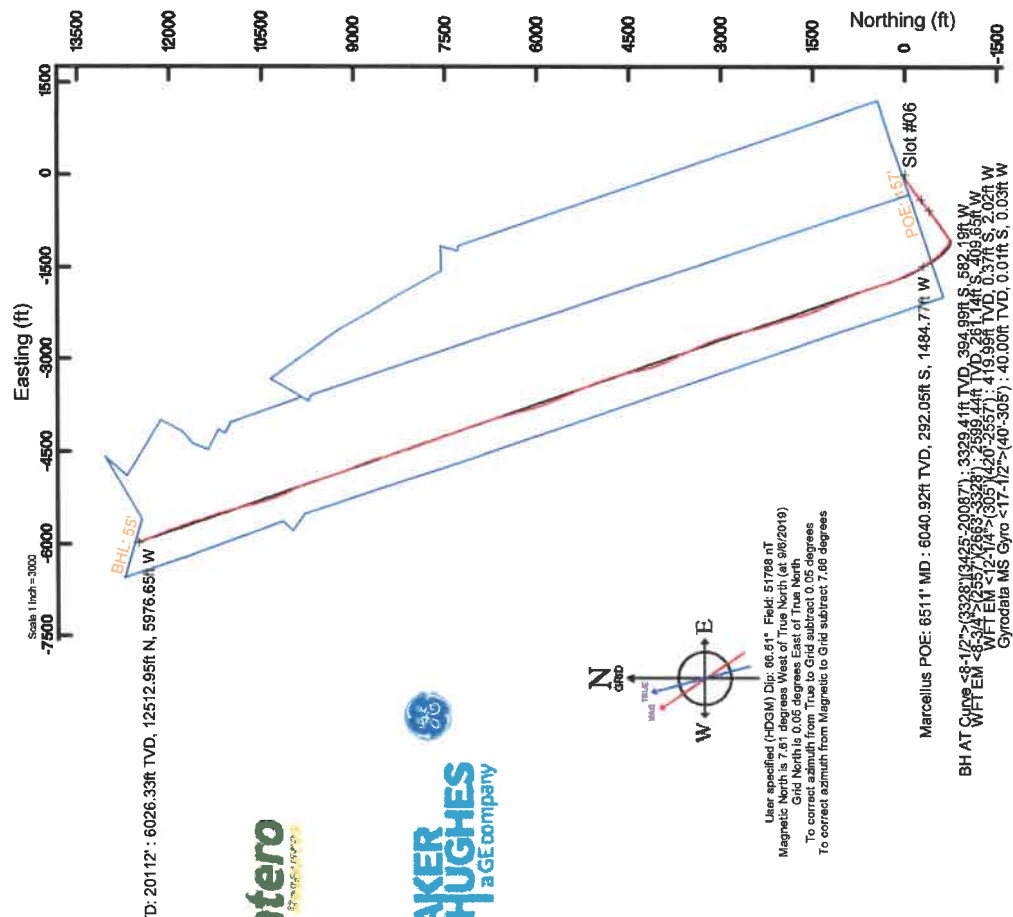
Location Information			
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Longitude
Ferrill North Pad	1063420.830	39°28'20.410"N	80°55'06.540"W
Slot	Local E (ft)	Local N (ft)	Local S (ft)
Slot #06	-0.83	1063420.003	14333986.814
H&P 519 (RKB) to Ground level (At Slot Slot #06)	-757ft		
Mean Sea Level to Ground level (At Slot Slot #06)	787ft		

Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local E (ft)	Local N (ft)
The On	3328.00	17.250	231.830	3236.57	-559.45	0.65
End of Tangent	3428.00	17.250	231.830	3332.07	-582.77	0.00
End of 3D Arc	3528.00	17.250	231.830	3427.57	-606.08	0.00
Curve KOP	3597.71	16.084	234.547	3494.36	-622.08	2.00
POE	5512.96	16.084	234.547	5334.55	-1054.57	0.00
Landing Pl	8428.41	71.252	328.000	6017.00	-1434.34	8.00
On-Admuth	8622.76	90.000	326.000	6055.00	-1522.90	8.00
BHL	7063.65	90.000	341.027	6055.00	-1721.92	3.00
	20'16.60	90.000	341.027	6055.00	-5965.78	0.00

Well Data			
Slot	Well	Wellbore	Wellbore
Slot #06	Remo Unit 1H	Remo Unit 1H AWB	Remo Unit 1H AWP Prop: 20112
Slot #06	Remo Unit 1H	Remo Unit 1H PWB	Remo Unit 1H PWP Rev-A.0



Gyrodala MS Gyro <17-1/2>(40-305): 0.34° Inc, 40.00ft MD, 40.00ft TVD, 0.00ft VS
 WFT EM <12-1/4>(305)(420-2557): 0.14° Inc, 420.00ft MD, 419.99ft TVD, 0.31ft VS
 WFT EM <8-3/4>(2557)(2663-3328): 15.21° Inc, 2663.00ft MD, 2589.44ft TVD, -113.79ft VS
 BH AT Curve <8-1/2>(3328)(3425-20087): 16.43° Inc, 3425.00ft MD, 3328.41ft TVD, -184.28ft VS
 Marcellus POE: 6511° MD: 74.81° Inc, 6511.00ft MD, 6040.92ft TVD, 206.47ft VS

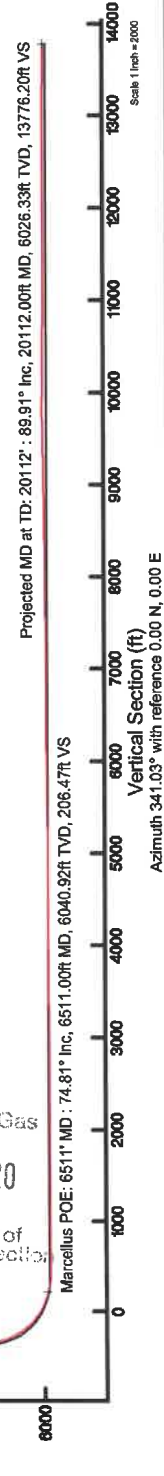


Projected MD at TD: 20112°: 6026.33ft TVD, 12512.95ft N, 5976.65ft W
 Marcellus POE: 6511° MD: 6040.92ft TVD, 292.08ft S, 1484.77ft W
 BH AT Curve <8-1/2>(3328)(3425-20087): 3329.41ft TVD, 394.99ft S, 582.19ft W
 WFT EM <8-3/4>(2557)(2663-3328): 2589.44ft TVD, 281.14ft S, 409.65ft W
 WFT EM <12-1/4>(305)(420-2557): 419.99ft TVD, 0.37ft S, 2.02ft W
 Gyrodala MS Gyro <17-1/2>(40-305): 40.00ft TVD, 0.01ft S, 0.03ft W

User specified (HDGM) Dip: 06.61° Field: 51788 nT
 Magnetic North is 7.61 degrees West of True North (at 8/6/2019)
 Grid North is 0.05 degrees East of True North
 To correct azimuth from True to Grid subtract 0.05 degrees
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees

API: 47-095-02578-0000
 BHI Job #: 110008763A
 Rig: H&P 519
 Duration: 09/08/2019-09/12/2019

RECEIVED
 Office of Oil and Gas
 SEP 24 2020
 WV Department of Environmental Protection

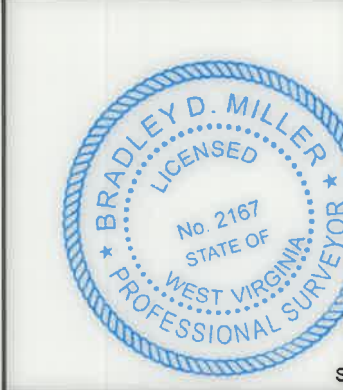


Projected MD at TD: 20112°: 89.91° Inc, 20112.00ft MD, 6026.33ft TVD, 13776.20ft VS
 Marcellus POE: 6511° MD: 74.81° Inc, 6511.00ft MD, 6040.92ft TVD, 206.47ft VS
 Vertical Section (ft)
 Azimuth 341.03° with reference 0.00 N, 0.00 E
 Scale 1 inch = 2000

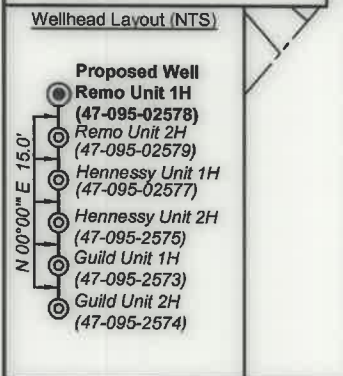
Antero Resources Well
No. Remo Unit 1H
As-Drilled
 Antero Resources Corporation

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.

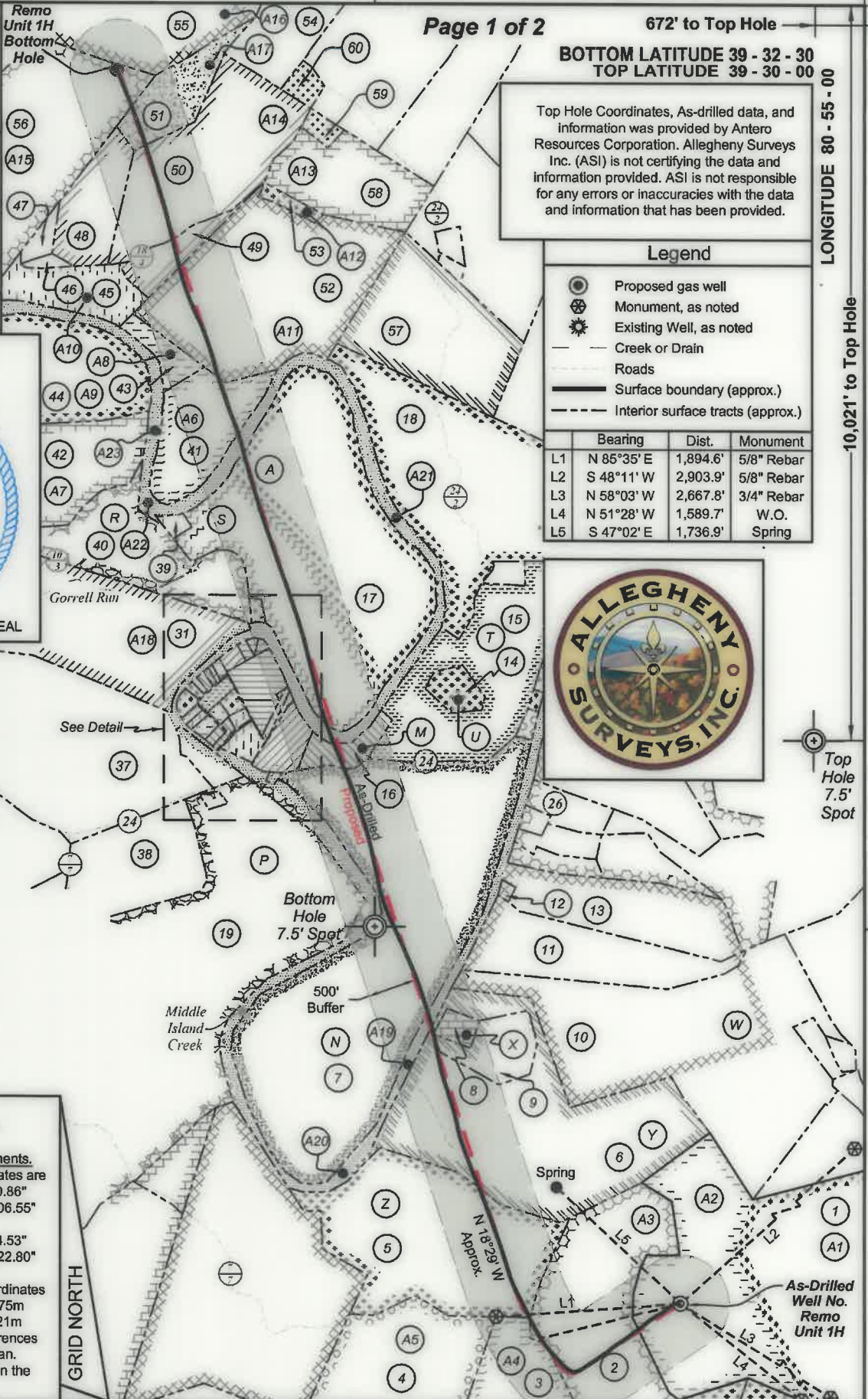
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.



Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Remo Unit 1H Top Hole coordinates are
 N: 357,351.50' Latitude: 39°28'20.86"
 E: 1,599,580.00' Longitude: 80°55'06.55"
 Bottom Hole coordinates are
 N: 369,957.25' Latitude: 39°30'24.53"
 E: 1,593,801.66' Longitude: 80°56'22.80"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,369,220.014m N: 4,373,030.975m
 E: 507,025.907m E: 505,201.421m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.



Page 1 of 2
 6,689' to Bottom Hole
 672' to Top Hole
 BOTTOM LATITUDE 39 - 32 - 30
 TOP LATITUDE 39 - 30 - 00
 LONGITUDE 80 - 55 - 00

Legend

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

	Bearing	Dist.	Monument
L1	N 85°35' E	1,894.6'	5/8" Rebar
L2	S 48°11' W	2,903.9'	5/8" Rebar
L3	N 58°03' W	2,667.8'	3/4" Rebar
L4	N 51°28' W	1,589.7'	W.O.
L5	S 47°02' E	1,736.9'	Spring



FILE NO: 17-54-E-17
 DRAWING NO: Remo 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: May 8 20 20
 OPERATOR'S WELL NO. Remo Unit 1H
 API WELL NO
 47 - 095 - 02578
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 757.5' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth
 SURFACE OWNER: Antero Midstream, LLC
 ROYALTY OWNER: West Virginia Division of Natural Resources (2); Phyllis Roth Tobias; LEASE NO:
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,112' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1815 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

**Antero Resources Well
No. Remo Unit 1H
As-Drilled**
Antero Resources Corporation

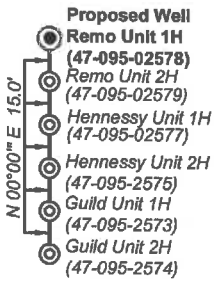
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.

Wellhead Layout (NTS)



Notes:

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E: 1,599,580.00' Longitude: 80°55'06.55"
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UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,220.014m N: 4,373,030.975m
E: 507,025.907m E: 505,201.421m
Plat orientation and corner and well references are based upon the grid north meridian.
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6,689' to Bottom Hole

672' to Top Hole

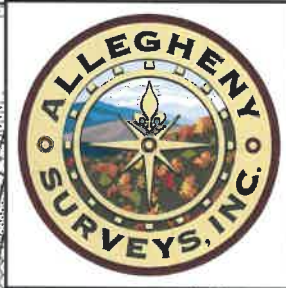
BOTTOM LATITUDE 39 - 32 - 30
TOP LATITUDE 39 - 30 - 00

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

Legend

- Proposed gas well
- ⊕ Monument, as noted
- ⊙ Existing Well, as noted
- Creek or Drain
- Roads
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)

	Bearing	Dist.	Monument
L1	N 85°35' E	1,894.6'	5/8" Rebar
L2	S 48°11' W	2,903.9'	5/8" Rebar
L3	N 58°03' W	2,667.8'	3/4" Rebar
L4	N 51°28' W	1,589.7'	W.O.
L5	S 47°02' E	1,736.9'	Spring



LONGITUDE 80 - 55 - 00

10,021' to Top Hole

12,590' to Bottom Hole

Top Hole 7.5' Spot

GRID NORTH

RECEIVED
Office of Oil and
SEP 24 2020

FILE NO: 17-54-E-17
DRAWING NO: Remo 1H_As-Drilled
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: May 8 20 20
OPERATOR'S WELL NO. Remo Unit 1H
API WELL NO
47 - 095 - 02578
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built 757.5' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth Richard J. Mathisen & Lisa M. Beane; John P.L. Hennessy; Larry R. Henthorn, et ux; Michael P. & Deborah G. Haught; COUNTY: Tyler
SURFACE OWNER: Antero Midstream, LLC Robert Earl Pitts; CHK-MAC; Bounty Minerals, LLC; Mark & Ellen VanDyne; ACREAGE: 203.59
ROYALTY OWNER: West Virginia Division of Natural Resources (2); Phyllis Roth Tobias; LEASE NO: ACREAGE: 127.39; 7.75;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled ESTIMATED DEPTH: 6,026' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,112' MD

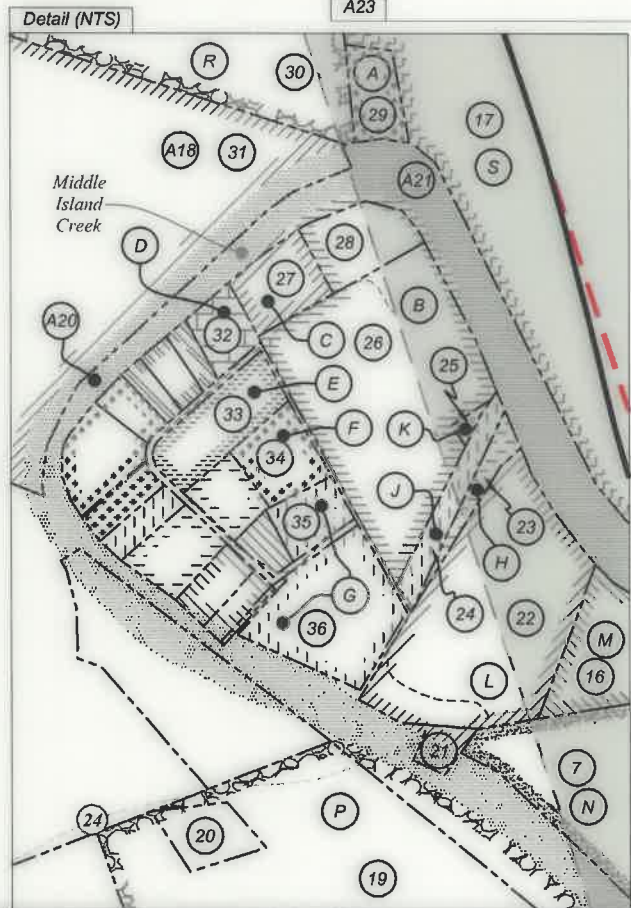
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313



No.	TM - Par.	Bk / Pg	Acres	Owner(s)
60	14 - 12	393 / 260	2.58	Lawrence Oraton Evens Jr.
59	14 - 28	393 / 260	2.00	Lawrence Oraton Evens Jr.
58	14 - 29	478 / 280	26.00	Boor Family Trust
57	14 - 37	447 / 112	41.90	Theresa L. Hutton
56	15 - 17	191 / 12	127.39	Earl & Donna Smith
55	13 - 1	330 / 931	150.00	James L. & Martha Jo Stewart
54	13 - 2	113 / 6	35.00	Lawrence Oraton Evens Jr.
53	13 - 5.1	342 / 553	2.00	Richard Scales
52	13 - 5	393 / 473	78.00	Mildred Scales
51	13 - 3.1	350 / 388	13.919	Earnley H. & Donna J. Owens
50	13 - 3.3	349 / 563	70.509	Richard J. Mathisen
49	13 - 3.4	415 / 733	7.505	Justin L. & Jessica Carpenter
48	13 - 3.5	406 / 668	17.648	Lisa M. Beane
47	13 - 3.2	342 / 509	2.433	Marshall J. & Peggy S. Dalrymple
46	13 - 4	267 / 209	1.03	Marshall J. Dalrymple
45	13 - 3	387 / 671	8.62	Robert D. & Sherry A. Ball
44	13 - 8	WB43 / 425	56.98	Larry Moore & James Moore
43	13 - 7	387 / 671	6.04	Robert D. & Sherry A. Ball
42	13 - 8.1	371 / 36	35.11	Leon B. & Deanna N. Ammons
41	13 - 6	387 / 671	21.42	Robert D. & Sherry A. Ball
40	19 - 56	390 / 553	23.56	Mark L. & Ellen Van Dyne
39	19 - 4	388 / 250	1.20	Harry Wayne Pixter
38	19 - 35	WB30 / 315	29.00	Rebecca Haught
37	19 - 34	318 / 636	95.60	Chauncy P. & Ruth Archer
36	19 - 19	226 / 266	2.308	Keith V. & Barbara Frum
35	19 - 25.2	334 / 117	0.631	Keith & Barbara Frum
34	19 - 25.3	334 / 117	0.631	Keith & Barbara Frum
33	19 - 25.1	303 / 105	1.288	Bill & Patricia Lemasters
32	19 - 8	357 / 127	0.60	Robert G. & Pamela R. Gorby
31	19 - 33	308 / 18	60.12	Mark L. & Ellen W. Van Dyne
30	19 - 55	333 / 208	9.55	Mark & Ellen Van Dyne
29	19 - 5	471 / 812	0.89	Ruth A. McDonald
28	19 - 7	337 / 653	0.77	Jerry E. Jessie K. Tracy
27	19 - 26	326 / 86	0.60	Jack & Margaret M. Henthorn
26	19 - 6	245 / 651	8.05	James E. & Jessie K. Tracy
25	19 - 27	39 / 506	0.08	Gloria L. Lowther
24	19 - 28	39 / 506	0.083	Gloria L. Lowther
23	19 - 29	39 / 506	0.39	Gloria L. Lowther
22	19 - 30	WB30 / 315	5.40	Rebecca A. Haught
21	19 - 31	334 / 603	0.25	WV Department of Highways
20	19 - 52.1	369 / 434	1.00	Hope Fellowship in Christ's Church
19	19 - 52	WB43 / 425	188.36	Larry Moore, et al
18	20 - 2	282 / 506	68.05	Larry Allen & Ronald Wayne Anderson
17	20 - 1	210 / 37	126.90	Mark L. & Ellen W. VanDyne
16	20 - 34	344 / 268	7.75	Michael P. & Deborah G. Haught
15	20 - 12	264 / 127	39.76	Hilda Steen
14	20 - 12.4	282 / 435	4.493	Ross L. & Marion Elizabeth Keller
13	20 - 83.6	WB40 / 335	30.034	Cynthia Heather & Thomas Hall
12	20 - 83.2	311 / 390	0.545	Ernest D. & Karen S. Helmick
11	20 - 83.7	400 / 592	30.353	Ernest D. & Karen S. Helmick
10	20 - 83	WB40 / 335	99.413	Larry S. & Dianna L. Helmick
9	20 - 98.2	417 / 303	10.493	Charles D. & Crystal D. Price
8	20 - 98.1	353 / 386	2.576	Samuel M. Brookover
7	20 - 35	181 / 376	140.00	Robert C. Sellers, et al
6	20 - 98	247 / 7	74.231	John P.L. Hennessy
5	20 - 97	314 / 699	66.84	Dennis J. & Connie S. Moore
4	26 - 1	448 / 216	61.78	Dennis James Moore, et al
3	26 - 2	314 / 701	63.40	Larry G. & Betsy E. Moore
2	26 - 3	448 / 216	63.02	Dennis James Moore, et al
1	20 - 102	575/69	203.59	Antero Midstream, LLC

Tag	Lease Owner(s)
A	CHK-MAC
B	Jerry E. & Jessie K. Tracy
C	Jack & Margaret M. Henthorn
D	Robert G. Gorby
E	Bill & Patricia Lemasters
F	Michael T. Fluharty
G	Keith V. & Barbara Frum
H	
J	Gloria L. Lowther
K	
L	Rebecca A. Haught
M	Michael P. & Deborah G. Haught
N	Robert Earl Pitts
P	Ruth E. Moore, widow
R	Mark & Ellen VanDyne
S	Mark & Ellen VanDyne
T	Hilda Steen
U	Hilda Steen
W	J. Howard & Teresa A. Hassig
X	Samuel M. Brookover
Y	John P.L. Hennessy
Z	Richard L. Clark

Tag	Lease Owner(s)
A1	The Swan Living Trust
A2	Larry R. Henthorn, et ux
A3	
A4	Richard L. Clark
A5	
A6	Phyllis Roth Tobias
A7	Leon D. Ammons, et ux
A8	Phyllis Roth Tobias
A9	James Moore
A10	Phyllis Roth Tobias
A11	Richard A. Scales
A12	Richard A. Scales
A13	Ronald E. Boor
A14	Richard J. Mathisen & Lisa M. Beane
A15	Donna Smith
A16	Mark Starkey
A17	Bounty Minerals, LLC
A18	Ridgetop Capital, IV, LP, a WV Limited Partnership
A19	
A20	
A21	West Virginia Division of Natural Resources
A22	
A23	



FILE NO: 17-54-E-17
 DRAWING NO: Remo 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: May 8 20 20
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 API WELL NO
 47 - 095 - 02578
 STATE COUNTY PERMIT

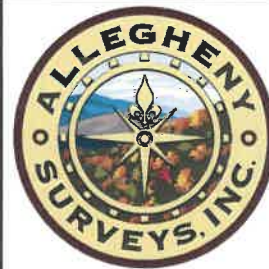
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 757.5' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Antero Midstream, LLC ACREAGE: 203.59
 ROYALTY OWNER: West Virginia Division of Natural Resources; LEASE NO: ACREAGE: 21.42; 2.576; 13.919; 61.71875; 84.724; 15.9; 70.509; 22.3; 63.02; 63.4; 66.84; 140; 60; 70.89; 78; 127.39; 7.75;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,112' MD 6,026' TVD

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

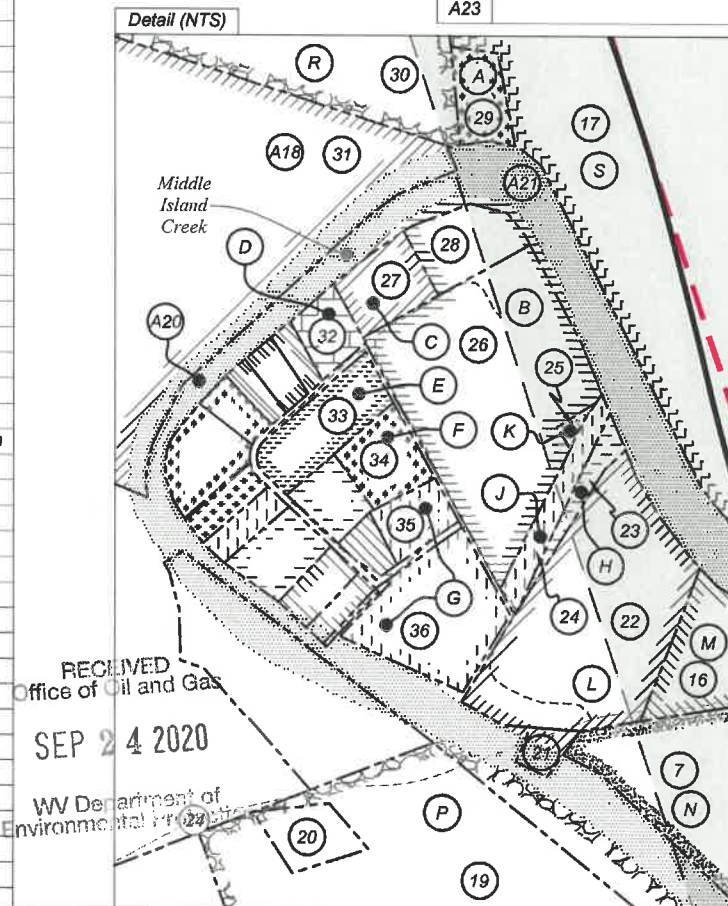
**Antero Resources Well
No. Remo Unit 1H
As-Drilled**
Antero Resources Corporation



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30	19 - 55	333 / 208	9.55	Mark & Ellen Van Dyne
29	19 - 5	471 / 812	0.89	Ruth A. McDonald
28	19 - 7	337 / 653	0.77	Jerry E. Jessie K. Tracy
27	19 - 26	326 / 86	0.60	Jack & Margaret M. Henthorn
26	19 - 6	245 / 651	8.05	James E. & Jessie K. Tracy
25	19 - 27	39 / 506	0.08	Gloria L. Lowther
24	19 - 28	39 / 506	0.083	Gloria L. Lowther
23	19 - 29	39 / 506	0.39	Gloria L. Lowther
22	19 - 30	WB30 / 315	5.40	Rebecca A. Haught
21	19 - 31	334 / 603	0.25	WV Department of Highways
20	19 - 52.1	369 / 434	1.00	Hope Fellowship in Christ's Church
19	19 - 52	WB43 / 425	188.36	Larry Moore, et al
18	20 - 2	282 / 506	68.05	Larry Allen & Ronald Wayne Anderson
17	20 - 1	210 / 37	126.90	Mark L. & Ellen W. Van Dyne
16	20 - 34	344 / 268	7.75	Michael P. & Deborah G. Haught
15	20 - 12	264 / 127	39.76	Hilda Steen
14	20 - 12.4	282 / 435	4.493	Ross L. & Marion Elizabeth Keller
13	20 - 83.6	WB40 / 335	30.034	Cynthia Heather & Thomas Hall
12	20 - 83.2	311 / 390	0.545	Ernest D. & Karen S. Helmick
11	20 - 83.7	400 / 592	30.353	Ernest D. & Karen S. Helmick
10	20 - 83	WB40 / 335	99.413	Larry S. & Dianna L. Helmick
9	20 - 98.2	417 / 303	10.493	Charles D. & Crystal D. Price
8	20 - 98.1	353 / 386	2.576	Samuel M. Brookover
7	20 - 35	181 / 376	140.00	Robert C. Sellers, et al
6	20 - 98	247 / 7	74.231	John P.L. Hennessy
5	20 - 97	314 / 699	66.84	Dennis J. & Connie S. Moore
4	26 - 1	448 / 216	61.78	Dennis James Moore, et al
3	26 - 2	314 / 701	63.40	Larry G. & Betsy E. Moore
2	26 - 3	448 / 216	63.02	Dennis James Moore, et al
1	20 - 102	575 / 69	203.59	Antero Midstream, LLC

Tag	Lease Owner(s)
A	CHK-MAC
B	Jerry E. & Jessie K. Tracy
C	Jack & Margaret M. Henthorn
D	Robert G. Gorby
E	Bill & Patricia Lemasters
F	Michael T. Fluharty
G	Keith V. & Barbara Frum
H	
J	Gloria L. Lowther
K	
L	Rebecca A. Haught
M	Michael P. & Deborah G. Haught
N	Robert Earl Pitts
P	Ruth E. Moore, widow
R	Mark & Ellen VanDyne
S	Mark & Ellen VanDyne
T	Hilda Steen
U	Hilda Steen
W	J. Howard & Teresa A. Hassig
X	Samuel M. Brookover
Y	John P.L. Hennessy
Z	Richard L. Clark

Tag	Lease Owner(s)
A1	The Swan Living Trust
A2	Larry R. Henthorn, et ux
A3	
A4	Richard L. Clark
A5	
A6	Phyllis Roth Tobias
A7	Leon D. Ammons, et ux
A8	Phyllis Roth Tobias
A9	James Moore
A10	Phyllis Roth Tobias
A11	Richard A. Scales
A12	Richard A. Scales
A13	Ronald E. Boor
A14	Richard J. Mathisen & Lisa M. Beane
A15	Donna Smith
A16	Mark Starkey
A17	Bounty Minerals, LLC
A18	Ridgetop Capital, IV, LP, a WV Limited Partnership
A19	
A20	
A21	West Virginia Division of Natural Resources
A22	
A23	



FILE NO: 17-54-E-17
DRAWING NO: Remo 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: May 8 20 20
OPERATOR'S WELL NO. Remo Unit 1H
API WELL NO
47 - 095 - 02578
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 757.5' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth COUNTY: Tyler
SURFACE OWNER: Antero Midstream, LLC ACREAGE: 203.59
ROYALTY OWNER: West Virginia Division of Natural Resources (2); Phyllis Roth Tobias; LEASE NO: ACREAGE: 13.919;
61.71875;
84.724; 15.9;
70.509; 22.3;
63.02; 63.4;
66.84; 140; 60;
70.89; 78;
127.39; 7.75;
21.42; 2.576;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,026' TVD
20,112' 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