

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

API 47 - 095 - 02738 County Tyler District McElroy
Quad Shirley Pad Name Shepherd Field/Pool Name -----
Farm name John Shepherd Well Number Rapids Unit 2H
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 4360480m Easting 520567m
Landing Point of Curve Northing 4360384.24m Easting 520190.47m
Bottom Hole Northing 4364410m Easting 518886m

Elevation (ft) 935' 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 6/28/2021 Date drilling commenced 7/28/2021 Date drilling ceased 8/25//2021
Date completion activities began 10/14/2021 Date completion activities ceased 11/12/2021
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 662' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1586' Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

WR-35
Rev. 8/23/13

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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"	367'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3181'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	21533'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7073'		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	350 sx	15.6	1.18	73	0'	8 Hrs.
Surface	Class A	431 sx	15.6	1.20	92	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1085 sx	15.6	1.19	228	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3425 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	769	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 21578' MD, 6649' TVD (BHL), 6681' (Deepest Point Drilled) Loggers TD (ft) 21578' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6922'

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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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								

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
	DEPTH IN FT	TVD	MD
Marcellus	6628' (TOP)	7138' (TOP)	

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 8439 mcfpd Oil 84 bpd NGL --- bpd Water 842 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 Schlumberger
Address 5599 San Felipe St City Houston State TX Zip 77056

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

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223
Signature [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	10/14/2021	21458.5	21414.1	36	Marcellus
2	10/16/2021	21373.04662	21161.1263	36	Marcellus
3	10/16/2021	21123.47293	20911.5526	36	Marcellus
4	10/16/2021	20873.89925	20661.9789	36	Marcellus
5	10/16/2021	20624.32556	20412.4053	36	Marcellus
6	10/17/2021	20374.75188	20162.8316	36	Marcellus
7	10/17/2021	20125.1782	19913.2579	36	Marcellus
8	10/17/2021	19875.60451	19663.6842	36	Marcellus
9	10/17/2021	19626.03083	19414.1105	36	Marcellus
10	10/18/2021	19376.45714	19164.5368	36	Marcellus
11	10/18/2021	19126.88346	18914.9632	36	Marcellus
12	10/18/2021	18877.30977	18665.3895	36	Marcellus
13	10/18/2021	18627.73609	18415.8158	36	Marcellus
14	10/18/2021	18378.16241	18166.2421	36	Marcellus
15	10/19/2021	18128.58872	17916.6684	36	Marcellus
16	10/19/2021	17879.01504	17667.0947	36	Marcellus
17	10/19/2021	17629.44135	17417.5211	36	Marcellus
18	10/20/2021	17379.86767	17167.9474	36	Marcellus
19	10/20/2021	17130.29398	16918.3737	36	Marcellus
20	10/20/2021	16880.7203	16668.8	36	Marcellus
21	10/20/2021	16631.14662	16419.2263	36	Marcellus
22	10/20/2021	16381.57293	16169.6526	36	Marcellus
23	10/21/2021	16131.99925	15920.0789	36	Marcellus
24	10/21/2021	15882.42556	15670.5053	36	Marcellus
25	10/21/2021	15632.85188	15420.9316	36	Marcellus
26	10/21/2021	15383.2782	15171.3579	36	Marcellus
27	10/22/2021	15133.70451	14921.7842	36	Marcellus
28	10/22/2021	14884.13083	14672.2105	36	Marcellus
29	10/22/2021	14634.55714	14422.6368	36	Marcellus
30	10/22/2021	14384.98346	14173.0632	36	Marcellus
31	10/23/2021	14135.40977	13923.4895	36	Marcellus
32	10/23/2021	13885.83609	13673.9158	36	Marcellus
33	10/23/2021	13636.26241	13424.3421	36	Marcellus
34	10/23/2021	13386.68872	13174.7684	36	Marcellus
35	10/24/2021	13137.11504	12925.1947	36	Marcellus
36	10/24/2021	12887.54135	12675.6211	36	Marcellus
37	10/24/2021	12637.96767	12426.0474	36	Marcellus
38	10/24/2021	12388.39398	12176.4737	36	Marcellus
39	10/24/2021	12138.8203	11926.9	36	Marcellus
40	10/25/2021	11889.24662	11677.3263	36	Marcellus
41	10/25/2021	11639.67293	11427.7526	36	Marcellus
42	10/25/2021	11390.09925	11178.1789	36	Marcellus
43	10/25/2021	11140.52556	10928.6053	36	Marcellus
44	10/25/2021	10890.95188	10679.0316	36	Marcellus
45	10/26/2021	10641.3782	10429.4579	36	Marcellus
46	10/26/2021	10391.80451	10179.8842	36	Marcellus
47	10/26/2021	10142.23083	9930.31053	36	Marcellus
48	10/26/2021	9892.657143	9680.73684	36	Marcellus
49	10/26/2021	9643.083459	9431.16316	36	Marcellus
50	10/27/2021	9393.509774	9181.58947	36	Marcellus
51	10/27/2021	9143.93609	8932.01579	36	Marcellus
52	10/27/2021	8894.362406	8682.44211	36	Marcellus
53	10/27/2021	8644.788722	8432.86842	36	Marcellus
54	10/28/2021	8395.215038	8183.29474	36	Marcellus
55	10/28/2021	8145.641353	7933.72105	36	Marcellus
56	10/28/2021	7896.067669	7684.14737	36	Marcellus
57	10/28/2021	7646.493985	7434.57368	36	Marcellus
58	10/29/2021	7396.920301	7185	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	10/14/2021	83.42	10200	8738	4339	181530	232755	N/A
2	10/16/2021	85.32	10095	6540	4202	503210	375352	N/A
3	10/16/2021	85.59	10041	6002	4233	504660	379727	N/A
4	10/16/2021	84.29	10036	6204	3992	507370	383728	N/A
5	10/16/2021	87.56	10029	6201	3901	505350	378855	N/A
6	10/17/2021	84.58	9987	5351	3935	509610	373421	N/A
7	10/17/2021	84.78	10081	7429	3698	500790	359525	N/A
8	10/17/2021	82.85	10043	9986	3976	500920	358867	N/A
9	10/17/2021	77.59	10014	8892	3628	512710	360717	N/A
10	10/18/2021	82.21	10014	10470	3544	512100	358302	N/A
11	10/18/2021	80.65	10053	9157	4039	504970	360823	N/A
12	10/18/2021	90.72	10045	9874	3977	512780	362250	N/A
13	10/18/2021	91.5	10063	9664	3872	513320	361518	N/A
14	10/18/2021	92.69	10044	6224	4186	509790	359431	N/A
15	10/19/2021	91.42	10068	7741	4308	508550	360088	N/A
16	10/19/2021	95.54	10059	6780	4099	507760	358466	N/A
17	10/19/2021	93.16	10030	7169	3997	513820	358449	N/A
18	10/20/2021	89.43	9871	9972	4100	499550	356315	N/A
19	10/20/2021	92.38	10072	7741	4343	514210	357401	N/A
20	10/20/2021	91.3	10053	6548	4532	511320	358028	N/A
21	10/20/2021	94.43	9771	7257	4538	506750	355589	N/A
22	10/20/2021	95.62	9967	7174	4122	506970	356810	N/A
23	10/21/2021	96.29	9928	8790	4107	505100	349985	N/A
24	10/21/2021	92.93	9631	7410	4275	507100	355480	N/A
25	10/21/2021	95.69	9860	6778	3930	500270	363661	N/A
26	10/21/2021	95.69	9807	6905	4402	502890	351150	N/A
27	10/22/2021	95.08	10001	6866	4214	502720	352180	N/A
28	10/22/2021	96.52	9877	7770	4164	502180	353525	N/A
29	10/22/2021	96.52	9948	7407	4066	504140	355082	N/A
30	10/22/2021	94.37	9983	7912	4191	507590	350486	N/A
31	10/23/2021	92.67	10029	7169	3858	497680	353665	N/A
32	10/23/2021	89.32	9848	8084	3985	505980	358622	N/A
33	10/23/2021	91.76	10047	7972	3956	504280	352290	N/A
34	10/23/2021	94.48	9987	8329	4198	508060	355152	N/A
35	10/24/2021	90.88	9849	9068	4101	502840	352901	N/A
36	10/24/2021	92.55	10015	8596	4040	508570	351356	N/A
37	10/24/2021	96.32	9435	8275	4141	505520	362364	N/A
38	10/24/2021	97.16	8987	8301	4590	504750	358883	N/A
39	10/24/2021	98.14	8975	8158	4395	507990	353907	N/A
40	10/25/2021	97.28	9047	7720	4467	506140	354967	N/A
41	10/25/2021	96.66	8991	8077	4643	503630	354027	N/A
42	10/25/2021	98.26	8902	7374	4447	501250	354665	N/A
43	10/25/2021	98.19	8981	7410	4095	503030	387870	N/A
44	10/25/2021	96.2	8671	7992	4373	508880	383638	N/A
45	10/26/2021	97.44	8925	6131	4421	505440	383706	N/A
46	10/26/2021	98.29	8911	6100	4160	510720	380875	N/A
47	10/26/2021	97.76	8805	7241	4488	506150	378411	N/A
48	10/26/2021	98.48	8914	7009	4527	504810	380888	N/A
49	10/26/2021	98.21	8603	7528	4523	505920	382528	N/A
50	10/27/2021	98.24	8609	8491	4475	498800	382663	N/A
51	10/27/2021	97.79	8989	6315	4539	499220	379097	N/A
52	10/27/2021	98.41	8951	6476	4634	503080	380055	N/A
53	10/27/2021	97.41	8721	6812	4537	500970	380733	N/A
54	10/28/2021	98.78	8709	8244	4202	507000	377057	N/A
55	10/28/2021	97.83	8935	8236	4387	507540	378139	N/A
56	10/28/2021	59.71	6232	6430	4254	504480	442999	N/A
57	10/28/2021	97.62	8198	6000	4432	509010	385471	N/A
58	10/29/2021	98.25	7770	7212	4344	511180	380254	N/A
	AVG=	92	9,495	7,616	4,209	29,022,950	21,125,149	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
Sandy Limestone, tr coal	90	135	90	135
Sandy Siltstone, tr LS	135	285	135	285
Shaly Siltstone	285	495	285	495
Sandstone	495	795	495	795
Sandy Siltstone, occ LS	795	885	795	885
Shaly Siltstone, rr LS	885	945	885	945
Shaly Sandstone, rr LS	945	975	945	975
Sandstone, tr coal	975	1,035	975	1,035
Silty Sandstone, tr coal, tr LS	1,035	1,125	1,035	1,125
Silty Sandstone, tr coal, tr shale	1,125	1,245	1,125	1,245
Silty Sandstone, occ shale	1,245	1,425	1,245	1,425
Sandstone, occ slst	1,425	1,695	1,425	1,695
Sandstone, occ sh	1,695	1,846	1,695	1,879
Big Lime	1,871	2,548	1,879	2,612
Fifty Foot Sandstone	2,548	2,651	2,587	2,720
Gordon	2,651	2,970	2,695	3,052
Fifth Sandstone	2,970	3,067	3,027	3,153
Bayard	3,067	3,730	3,128	3,861
Speechley	3,730	4,011	3,836	4,154
Balltown	4,011	4,540	4,129	4,703
Bradford	4,540	5,014	4,678	5,195
Benson	5,014	5,255	5,170	5,445
Alexander	5,255	6,442	5,420	6,712
Sycamore	6,244	6,417	6,476	6,687
Middlesex	6,417	6,550	6,687	6,912
Burkett	6,550	6,578	6,912	6,981
Tully	6,578	6,628	6,981	7,138
Marcellus	6,628	NA	7,138	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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/14/2021
Job End Date:	10/29/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02738-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	RAPIDS 2H
Latitude:	39.39348900
Longitude:	-80.76132500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,681
Total Base Water Volume (gal):	21,931,687
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	86.41104	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.05427	

Exceletrate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				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	13.45303
			Complex Amine Compound	Proprietary	60.00000	0.03356
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01678
			Proprietary	Proprietary	20.00000	0.01105
			Proprietary	Proprietary	10.00000	0.00553
			Guar gum	9000-30-0	100.00000	0.00394
			Hydrochloric acid	7647-01-0	30.00000	0.00373
			Surfactant	Proprietary	5.00000	0.00280
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00280
			Glutaraldehyde	111-30-8	30.00000	0.00248
			Ethoxylated alcohols	Proprietary	5.00000	0.00056
			Organic chloride compound	Proprietary	1.00000	0.00056
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00056
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00041
			Ethanol	64-17-5	1.00000	0.00008
			Ammonium persulfate	7727-54-0	100.00000	0.00008
			Oxylated phenolic resin	Proprietary	30.00000	0.00002
			Methanol	67-56-1	100.00000	0.00002
			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
			Organic salt #2	Proprietary	0.01000	0.00001
			Nitrated acetate salt	Proprietary	0.01000	0.00001
			Formaldehyde	50-00-0	0.01000	0.00001
			Acrylamide	79-06-1	0.01000	0.00001

			Organic salt #1	Proprietary	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			Hexadecene	629-73-2	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)

LATITUDE 39°25'00" 8,684' 3,201'

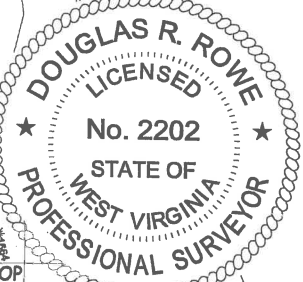
LATITUDE 39°27'30"

Antero Resources Corporation
Well No. Rapids Unit 2H

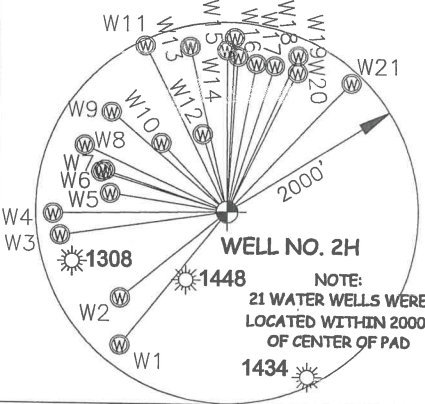
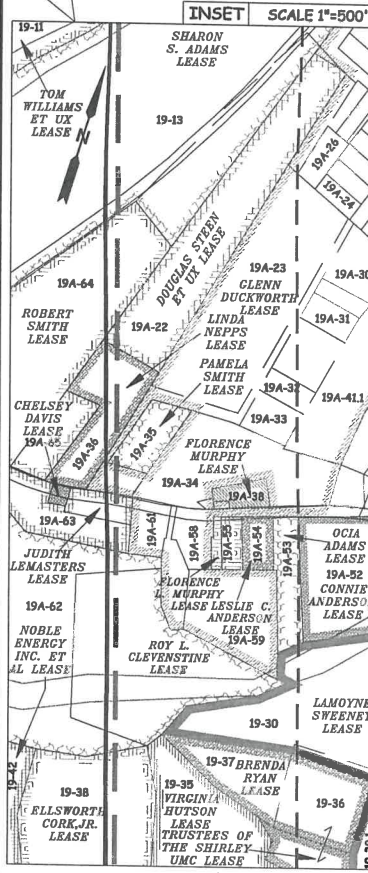
(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 14,305,294ft E: 1,707,847ft
POINT OF ENTRY INFORMATION:
N: 14,304,503ft E: 1,706,839ft
BOTTOM HOLE INFORMATION:
N: 14,318,188ft E: 1,702,330ft

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 327,929ft E: 1,643,538ft
LAT: 39°23'36.56" LON: 80°45'40.77"
BOTTOM HOLE INFORMATION:
N: 340,918ft E: 1,638,234ft
LAT: 39°25'44.18" LON: 80°46'50.68"
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 2H TOP HOLE INFORMATION:
N: 4,360,480m E: 520,567m
BOTTOM HOLE INFORMATION:
N: 4,364,410m E: 518,886m



16-01	DONALD VAN DINE
16-02	MICHAEL SLOSS
16-07	ROBERT KOCHER
16-7.1	DONALD MOORE
16-08	JUNE GRIFFIN
16-09	JAMIE STRAIGHT
16-16	ROUDDENHOLDER III
16-16.1	CHARLES KIMBALL
16-17	CHARLES STRAIGHT
16-18	ALBERT BEBEE
19-10	JUDITH MALLOY
19-11	ISAAC WILLIAMS
19-12	ORPHA WILLIAMS
19-13	BRENDA CUNNINGHAM
19-13.1	GARY ORR
19-13.2	ROBERT SMITH
19-13.3	SHIRLEY VOL FIRE DEPT., INC.
19-27	HARVEY BURNS
19-29	JOHN SHEPHERD
19-30	JOHN SHEPHERD
19-31	JOHN SHEPHERD
19-32	GARY WRIGHT
19-32.1	GARY WRIGHT
19-32.2	GARY WRIGHT
19-33	GARY WRIGHT
19-34	GARY WRIGHT
19-35	GARY WRIGHT
19-36	SHIRLEY CEMETERY
19-37	SHIRLEY E U B CHURCH
19-38	ELLSWORTH CORK
19-42	ANN BURROLA
19-53	JAY JEFFERS
19-55	HEATH HOWELL
19-57	WILLIAM BALL
19-63	JACQUELINE WICHMAN TRUST
19-63.1	JACQUELINE WICHMAN TRUST
19-22	BETHEL YEATER
19-23	SAMUEL PRATT
19-24	DANIEL MCINTYRE
19-26	DANIEL MCINTYRE
19-30	RACHEL PATTERSON
19-31	BRUCE PRATT
19-32	WILMA SMITH
19-33	SAMUEL PRATT
19-34	STACEY COLLINS
19-35	PAMELA SMITH
19-36	BETHEL YEATER
19-37	ANN BURROLA
19-38	FLORENCE MURPHY
19-41.1	BRUCE PRATT
19-52	CONNIE ANDERSON
19-52.1	CONNIE ANDERSON
19-53	OCIA ADAMS
19-54	LESLIE ANDERSON
19-55	FLORENCE MURPHY
19-58	ANN BURROLA
19-59	LESLIE ANDERSON
19-61	ANTERO RESOURCES CORP.
19-62	ROY CLEVENSTINE
19-63	JUDITH LEMASTERS
19-64	ROBERT SMITH
19-65	DORSEY ASH



LINE	BEARING	DIST.
W1	S 38°38' W	1787.8'
W2	S 50°59' W	1435.2'
W3	S 81°39' W	1764.3'
W4	S 89°00' W	1819.7'
W5	N 81°26' W	1237.3'
W6	N 72°47' W	1377.6'
W7	N 71°34' W	1346.1'
W8	N 65°17' W	1640.8'
W9	N 49°29' W	1592.4'
W10	N 43°57' W	993.0'
W11	N 26°12' W	1944.0'
W12	N 17°41' W	851.8'
W13	N 12°43' W	1781.2'
W14	N 00°13' W	1701.9'
W15	N 02°18' E	1838.5'
W16	N 03°44' E	1639.4'
W17	N 10°47' E	1592.5'
W18	N 17°35' E	1618.9'
W19	N 24°01' E	1806.6'
W20	N 26°22' E	1642.9'
W21	N 43°22' E	1882.5'

NOTE

- 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.
- TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
- 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.
- WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

JOB # **18-003WA**
DRAWING # **RAPIDS2HAD**
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

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

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

DOUGLAS R. ROWE P.S. 2202
DATE **02/24/22**
OPERATOR'S WELL # **RAPIDS UNIT #2H**

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 47 - 095 - 02738
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW STATE COUNTY PERMIT
LOCATION: ELEVATION **935' - ASBUILT** WATERSHED **MCELROY CREEK**
QUADRANGLE **SHIRLEY 7.5'** DISTRICT **MCELROY** COUNTY **TYLER**
SURFACE OWNER **JOHN SHEPHERD** ACREAGE **31.75 ACRES +/-**
OIL & GAS ROYALTY OWNER **LAMOYNE SWEENEY; EDGAR B. HARTLEY; ANNA SWEENEY; VIRGINIA HUTSON; ELLSWORTH CORK, JR.; ROY L. CLEVENSTINE; LEASE** ACREAGE **7.28 AC±; 16 AC±; 3.08 AC±; 15.12 AC±; 4 AC±; 6.63 AC±; JUDITH LEMASTERS; GLENN DUCKWORTH; LINDA NEPPS; DOUGLAS STEEN ET UX; ROBERT SMITH; SHARON S. ADAMS; TOM WILLIAMS ET UX; JAMES MALLOY ET UX; 1 AC±; 29.92 AC±; 1 AC±; 3 AC±; 7.15 AC±; 13.975 AC±; 40 AC±; 90.1 AC±; REBECCA WILLIAMS; ROSEMARY HAUGHT; HENRY M. WALLACE ET UX; JIMMY J. GRIFFIN ET UX; BOUNTY MINERALS, LLC; JAMES A. GROVE; BRC APPALACHIAN I, LLC 210 AC±; 98.5 AC±; 219.39 AC±; 236 AC±; 502.8 AC±; 120 AC±; 70 AC±**
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 **6,649' TVD 21,578' MD**
WELL OPERATOR **ANTERO RESOURCES CORP.** DESIGNATED AGENT **DIANNA STAMPER - CT CORPORATION SYSTEM**
ADDRESS **1615 WYNKOOP ST.** ADDRESS **5400 D BIG TYLER ROAD**
FORM WW-6 **DENVER, CO 80202** ADDRESS **CHARLESTON, WV 25313**

COUNTY NAME PERMIT