

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

API 47-095-02737 County Tyler District McElroy
Quad Shirley Pad Name Shepherd Field/Pool Name -----
Farm name John Shepherd Well Number Gatrell 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 4360484m Easting 520568m
Landing Point of Curve Northing 4360510.23m Easting 520426.88m
Bottom Hole Northing 4363874m Easting 519333m

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 7/30/2021 Date drilling ceased 8/17/2021
Date completion activities began 10/1/2021 Date completion activities ceased 11/16/2021
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

API 47- 095 - 02737 Farm name John Shepherd Well number Gatrell Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	360'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3090'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18922'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6946'		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) 2927 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	657	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 19009' MD, 6653' TVD (BHL), 6693' (Deepest Point Drilled) Loggers TD (ft) 19009' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5856'

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- 095 - 02737 Farm name John Shepherd Well number Gatrell 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								

Please insert additional pages as applicable.

API 47-095-02737 Farm name John Shepherd Well number Gatrell Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6641' (TOP)	TVD	7007' (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 8019 mcfpd Oil 84 bpd NGL --- bpd Water 790 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  Title Completions Technician Date 3/31/2022

API 47-095-02737 Farm Name John Shepherd Well Number Gattrell Unit 1H

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/02/2021	18852.4	18810.7	36	Marcellus
2	10/02/2021	18771.52615	18604.6569	36	Marcellus
3	10/03/2021	18568.88305	18402.01379	36	Marcellus
4	10/04/2021	18366.23994	18199.37069	36	Marcellus
5	10/04/2021	18163.59684	17996.72759	36	Marcellus
6	10/04/2021	17960.95374	17794.08448	36	Marcellus
7	10/04/2021	17758.31063	17591.44138	36	Marcellus
8	10/05/2021	17555.66753	17388.79828	36	Marcellus
9	10/05/2021	17353.02443	17186.15517	36	Marcellus
10	10/05/2021	17150.38132	16983.51207	36	Marcellus
11	10/05/2021	16947.73822	16780.86897	36	Marcellus
12	10/05/2021	16745.09511	16578.22586	36	Marcellus
13	10/06/2021	16542.45201	16375.58276	36	Marcellus
14	10/06/2021	16339.80891	16172.93966	36	Marcellus
15	10/06/2021	16137.1658	15970.29655	36	Marcellus
16	10/06/2021	15934.5227	15767.65345	36	Marcellus
17	10/06/2021	15731.8796	15565.01034	36	Marcellus
18	10/07/2021	15529.23649	15362.36724	36	Marcellus
19	10/07/2021	15326.59339	15159.72414	36	Marcellus
20	10/07/2021	15123.95029	14957.08103	36	Marcellus
21	10/07/2021	14921.30718	14754.43793	36	Marcellus
22	10/07/2021	14718.66408	14551.79483	36	Marcellus
23	10/08/2021	14516.02098	14349.15172	36	Marcellus
24	10/08/2021	14313.37787	14146.50862	36	Marcellus
25	10/08/2021	14110.73477	13943.86552	36	Marcellus
26	10/09/2021	13908.09167	13741.22241	36	Marcellus
27	10/09/2021	13705.44856	13538.57931	36	Marcellus
28	10/09/2021	13502.80546	13335.93621	36	Marcellus
29	10/09/2021	13300.16236	13133.2931	36	Marcellus
30	10/09/2021	13097.51925	12930.65	36	Marcellus
31	10/09/2021	12894.87615	12728.0069	36	Marcellus
32	10/10/2021	12692.23305	12525.36379	36	Marcellus
33	10/10/2021	12489.58994	12322.72069	36	Marcellus
34	10/10/2021	12286.94684	12120.07759	36	Marcellus
35	10/10/2021	12084.30374	11917.43448	36	Marcellus
36	10/10/2021	11881.66063	11714.79138	36	Marcellus
37	10/10/2021	11679.01753	11512.14828	36	Marcellus
38	10/11/2021	11476.37443	11309.50517	36	Marcellus
39	10/11/2021	11273.73132	11106.86207	36	Marcellus
40	10/11/2021	11071.08822	10904.21897	36	Marcellus
41	10/11/2021	10868.44511	10701.57586	36	Marcellus
42	10/11/2021	10665.80201	10498.93276	36	Marcellus
43	10/12/2021	10463.15891	10296.28966	36	Marcellus
44	10/12/2021	10260.5158	10093.64655	36	Marcellus
45	10/12/2021	10057.8727	9891.003448	36	Marcellus
46	10/12/2021	9855.229598	9688.360345	36	Marcellus
47	10/12/2021	9652.586494	9485.717241	36	Marcellus
48	10/12/2021	9449.943391	9283.074138	36	Marcellus
49	10/13/2021	9247.300287	9080.431034	36	Marcellus
50	10/13/2021	9044.657184	8877.787931	36	Marcellus
51	10/13/2021	8842.01408	8675.144828	36	Marcellus
52	10/13/2021	8639.370977	8472.501724	36	Marcellus
53	10/14/2021	8436.727874	8269.858621	36	Marcellus
54	10/14/2021	8234.08477	8067.215517	36	Marcellus
55	10/14/2021	8031.441667	7864.572414	36	Marcellus
56	10/15/2021	7828.798563	7661.92931	36	Marcellus
57	10/15/2021	7626.15546	7459.286207	36	Marcellus
58	10/15/2021	7423.512356	7256.643103	36	Marcellus
59	10/15/2021	7220.869253	7054	36	Marcellus

API 47-095-02737 Farm Name John Shepherd Well Number Gatrell Unit 1H

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	10/02/2021	57.12	8509	9162	3738	181130	358623	N/A
2	10/02/2021	80.45	8496	6909	4377	404840	332859	N/A
3	10/03/2021	85.6	8504	6874	4283	406240	309301	N/A
4	10/04/2021	43.42	5865	6296	4422	410420	420179	N/A
5	10/04/2021	84.81	8528	5820	4509	410520	314907	N/A
6	10/04/2021	84.24	8515	6251	4264	412020	309948	N/A
7	10/04/2021	85.79	8564	2452	4085	416300	293953	N/A
8	10/05/2021	85.4	8530	8388	3961	411600	290767	N/A
9	10/05/2021	86.31	8494	8305	4169	405700	290452	N/A
10	10/05/2021	86.65	8386	6734	4273	411080	295537	N/A
11	10/05/2021	87.5	8338	6042	4062	414500	297347	N/A
12	10/05/2021	88.26	8413	6438	4135	411420	291924	N/A
13	10/06/2021	86.61	8392	5404	4220	412700	291978	N/A
14	10/06/2021	87.83	8408	6812	4146	409940	295487	N/A
15	10/06/2021	85.49	8395	8395	3946	406120	295459	N/A
16	10/06/2021	86.82	8386	6455	4067	409180	291691	N/A
17	10/06/2021	89.92	8505	6092	4644	402600	284924	N/A
18	10/07/2021	87.76	8351	8180	4126	402060	286330	N/A
19	10/07/2021	86.56	8313	8805	4135	403020	290006	N/A
20	10/07/2021	87.59	8318	7701	4365	406100	291038	N/A
21	10/07/2021	87.27	8321	7526	4026	412980	293170	N/A
22	10/07/2021	87.27	8251	6817	3989	410080	289487	N/A
23	10/08/2021	90.08	8513	5761	4010	406400	294637	N/A
24	10/08/2021	83.38	8452	6591	4234	402600	288069	N/A
25	10/08/2021	91.84	8490	6383	4354	414600	291370	N/A
26	10/09/2021	84.98	8435	6979	4303	408260	290996	N/A
27	10/09/2021	85.81	8434	6356	4289	416660	291324	N/A
28	10/09/2021	90.22	8504	7045	4317	405100	292393	N/A
29	10/09/2021	92.63	8408	7550	4529	410580	292611	N/A
30	10/09/2021	91.82	8455	6448	4369	406840	290095	N/A
31	10/09/2021	93	8474	6358	4375	407289	282131	N/A
32	10/10/2021	95.89	8474	6504	4614	401120	280578	N/A
33	10/10/2021	94.13	8421	7310	4409	404160	284719	N/A
34	10/10/2021	94.96	8254	7469	4325	401700	279789	N/A
35	10/10/2021	90.71	8355	7728	4524	404520	284828	N/A
36	10/10/2021	94.49	8552	6251	4391	403460	284027	N/A
37	10/10/2021	97.69	8567	5778	4452	403260	283835	N/A
38	10/11/2021	96.89	8628	7542	4507	402000	283555	N/A
39	10/11/2021	89.16	8461	7820	4402	401620	282662	N/A
40	10/11/2021	95.26	8135	6903	4503	403160	284918	N/A
41	10/11/2021	94.33	8223	7867	4617	403540	289016	N/A
42	10/11/2021	97.91	8386	6149	4541	410160	283651	N/A
43	10/12/2021	97.94	8329	7285	4412	411720	284768	N/A
44	10/12/2021	96.36	8325	7117	4314	401760	282292	N/A
45	10/12/2021	95.8	8022	6882	4155	403200	279915	N/A
46	10/12/2021	91.85	8110	8549	4235	405760	285549	N/A
47	10/12/2021	96.29	8438	6936	4221	408660	289926	N/A
48	10/12/2021	97.49	8251	8514	4558	401840	288864	N/A
49	10/13/2021	97.31	8082	8991	4299	406769	292677	N/A
50	10/13/2021	97.61	8210	8156	4477	401440	288683	N/A
51	10/13/2021	95.4	7961	5160	5140	406840	290036	N/A
52	10/13/2021	96.48	7759	8849	4521	402940	286677	N/A
53	10/14/2021	95.7	7534	7334	4030	403200	294214	N/A
54	10/14/2021	89.52	7705	7080	4374	403660	316252	N/A
55	10/14/2021	97.42	8066	7388	4487	403740	296219	N/A
56	10/15/2021	98.27	8234	7478	4464	400960	292118	N/A
57	10/15/2021	96.02	7724	7928	4230	399800	289516	N/A
58	10/15/2021	97.17	8030	7180	4353	402820	285330	N/A
59	10/15/2021	98.14	8069	7830	4169	409640	293212	N/A
	AVG=	90	8,275	7,073	4,313	23,762,328	17,386,819	TOTAL

API 47-095-02737 Farm Name John Shepherd Well Number Gatrell Unit 1H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
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	1,843	1,695	1,843
Big Lime	1,868	2,537	1,843	2,537
Fifty Foot Sandstone	2,537	2,653	2,512	2,653
Gordon	2,653	2,969	2,628	2,969
Fifth Sandstone	2,969	3,066	2,944	3,066
Bayard	3,066	3,738	3,041	3,746
Speechley	3,738	4,022	3,721	4,044
Balltown	4,022	4,537	4,019	4,588
Bradford	4,537	5,000	4,563	5,073
Benson	5,000	5,240	5,048	5,327
Alexander	5,240	6,452	5,302	6,609
Sycamore	6,260	6,427	6,386	6,584
Middlesex	6,427	6,558	6,584	6,790
Burkett	6,558	6,588	6,790	6,854
Tully	6,588	6,641	6,854	7,007
Marcellus	6,641	NA	7,007	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:	10/2/2021
Job End Date:	10/14/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02737-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GATRELL 1H
Latitude:	39.39353100
Longitude:	-80.76132200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,693
Total Base Water Volume (gal):	18,205,077
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	86.54833	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.06368	

FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				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			
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	13.29035
			Complex Amine Compound	Proprietary	60.00000	0.03403
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01702
			Proprietary	Proprietary	20.00000	0.01385
			Proprietary	Proprietary	10.00000	0.00692
			Hydrochloric acid	7647-01-0	30.00000	0.00642
			Guar gum	9000-30-0	100.00000	0.00558
			Surfactant	Proprietary	5.00000	0.00284
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00284
			Glutaraldehyde	111-30-8	30.00000	0.00247
			Ethoxylated alcohols	Proprietary	5.00000	0.00057
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00057
			Organic chloride compound	Proprietary	1.00000	0.00057
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00041
			Ammonium persulfate	7727-54-0	100.00000	0.00009
			Ethanol	64-17-5	1.00000	0.00008
			Methanol	67-56-1	100.00000	0.00004
			Oxylated phenolic resin	Proprietary	30.00000	0.00003
			Modified thiourea polymer	Proprietary	30.00000	0.00001
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001
			Nitrated acetate salt	Proprietary	0.01000	0.00001
			Organic salt #2	Proprietary	0.01000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00001
			Formaldehyde	50-00-0	0.01000	0.00001

			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

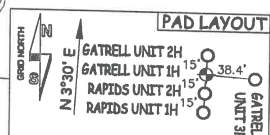
LATITUDE 39°25'00" 3,200'
7,219'

Antero Resources Corporation
Well No. Gatrell Unit 1H

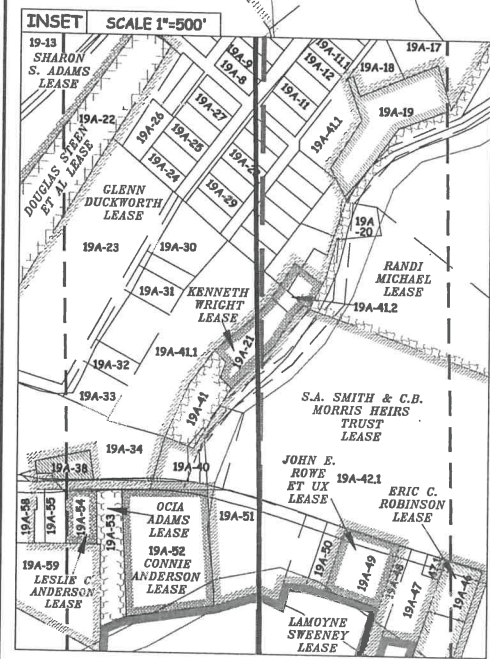
(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,305,309ft E: 1,707,848ft
POINT OF ENTRY INFORMATION:
N: 14,305,066ft E: 1,707,559ft
BOTTOM HOLE INFORMATION:
N: 14,316,428ft E: 1,703,799ft

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 327,944ft E: 1,643,539ft
LAT: 39°23'36.71" LON: 80°45'40.76"
BOTTOM HOLE INFORMATION:
N: 339,133ft E: 1,639,675ft
LAT: 39°25'26.75" LON: 80°46'32.00"
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.

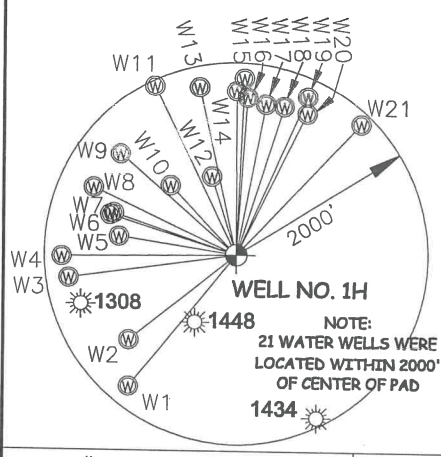
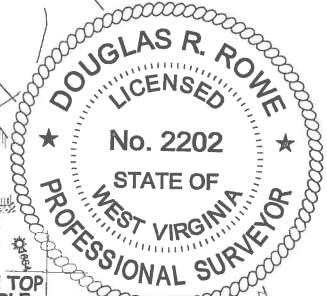
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,360,484m E: 520,568m
BOTTOM HOLE INFORMATION:
N: 4,363,874m E: 519,333m



WV NORTH ZONE GRID NORTH



- 16-03 KES INVESTMENTS 4, LLC
- 16-7.1 DONALD MOORE
- 16-08 JUNE GRIFFIN
- 16-09 JAMIE STRAIGHT
- 16-10 MIKE ROSS INC.
- 16-16 ROUDDEN HOLDER III
- 16-17 CHARLES STRAIGHT
- 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
- 19-55 HEATH HOWELL
- 19A-07 MICHAEL MASON
- 19A-08 DANIEL MCINTYRE
- 19A-09 DANIEL MCINTYRE
- 19A-10 DANIEL MCINTYRE
- 19A-11 ARTHUR KESTER
- 19A-21 KENNETH WRIGHT
- 19A-27 DANIEL MCINTYRE
- 19A-28 CLARISSA REED
- 19A-40 COMMUNITY BUILDING
- 19A-41.1 BRUCE PRATT
- 19A-42.1 CLARISSA REED
- 19A-51 JEFFREY BROWN



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 # **GATRELL1HAD**
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# **GATRELL UNIT #1H**

WELL TYPE: OIL ___ GAS **X** LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION **X** STORAGE ___ DEEP ___ SHALLOW **X**
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; S.A. SMITH & C.B. MORRIS HEIRS TRUST; KENNETH WRIGHT; GLENN DUCKWORTH; SHARON S. ADAMS; GROVER HAUGHT; TOM WILLIAMS ET UX; JAMES MALLOY ET UX;** LEASE ACREAGE **72.28 AC+; 29 AC+; 6.27 AC+; 0.68 AC+; 29.92 AC+; 13.975 AC+; 8 AC+; 40 AC+; 90.1 AC+;**
REBECCA WILLIAMS; ROSEMARY HAUGHT; JIMMY J. GRIFFIN ET UX; BOUNTY MINERALS, LLC; JAMES A. GROVE **210 AC+; 98.5 AC+; 236 AC+; 502.8 AC+; 120AC+;**
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 **6,653' TVD 19,009' 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**

8,427'
12,470'
LONGITUDE 80°45'00"

COUNTY NAME PERMIT