

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

API 47-095-02740 County Tyler District McElroy  
Quad Shirley Pad Name Shepherd Field/Pool Name -----  
Farm name John Shepherd Well Number Gatrell 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 4360489m Easting 520568m  
Landing Point of Curve Northing 4360609.79m Easting 520663.79m  
Bottom Hole Northing 4363495m Easting 519731m

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 8/1/2021 Date drilling ceased 8/10/2021  
Date completion activities began 10/2/2021 Date completion activities ceased 11/19/2021  
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 - 02740 Farm name John Shepherd Well number Gatrell Unit 2H

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"	3083'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17493'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6979'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	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	1056 sx	15.6	1.19	222	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3838 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	861	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17538' MD, 6654' TVD (BHL), 6705' (Deepest Point Drilled) Loggers TD (ft) 17538' MD

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

Plug back procedure N/A

Kick off depth (ft) 5923'

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 - 02740 Farm name John Shepherd Well number Gatrell Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6654' (TOP) TVD	7055' (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 8847 mcfpd Oil 93 bpd NGL --- bpd Water 880 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> 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 3/31/22

API 47-095-02740 Farm Name John Shepherd Well Number Gatrell Unit 2H

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/02/2021	17418.4	17374.1	36	Marcellus
2	10/03/2021	17335.04248	17169.2549	36	Marcellus
3	10/03/2021	17133.69739	16967.9098	36	Marcellus
4	10/04/2021	16932.35229	16766.5647	36	Marcellus
5	10/04/2021	16731.00719	16565.2196	36	Marcellus
6	10/04/2021	16529.66209	16363.8745	36	Marcellus
7	10/04/2021	16328.31699	16162.5294	36	Marcellus
8	10/05/2021	16126.9719	15961.1843	36	Marcellus
9	10/05/2021	15925.6268	15759.8392	36	Marcellus
10	10/05/2021	15724.2817	15558.4941	36	Marcellus
11	10/05/2021	15522.9366	15357.149	36	Marcellus
12	10/05/2021	15321.5915	15155.8039	36	Marcellus
13	10/06/2021	15120.24641	14954.4588	36	Marcellus
14	10/06/2021	14918.90131	14753.1137	36	Marcellus
15	10/06/2021	14717.55621	14551.7686	36	Marcellus
16	10/06/2021	14516.21111	14350.4235	36	Marcellus
17	10/07/2021	14314.86601	14149.0784	36	Marcellus
18	10/07/2021	14113.52092	13947.7333	36	Marcellus
19	10/07/2021	13912.17582	13746.3882	36	Marcellus
20	10/07/2021	13710.83072	13545.0431	36	Marcellus
21	10/07/2021	13509.48562	13343.698	36	Marcellus
22	10/08/2021	13308.14052	13142.3529	36	Marcellus
23	10/08/2021	13106.79542	12941.0078	36	Marcellus
24	10/08/2021	12905.45033	12739.6627	36	Marcellus
25	10/08/2021	12704.10523	12538.3176	36	Marcellus
26	10/09/2021	12502.76013	12336.9725	36	Marcellus
27	10/09/2021	12301.41503	12135.6275	36	Marcellus
28	10/09/2021	12100.06993	11934.2824	36	Marcellus
29	10/09/2021	11898.72484	11732.9373	36	Marcellus
30	10/09/2021	11697.37974	11531.5922	36	Marcellus
31	10/10/2021	11496.03464	11330.2471	36	Marcellus
32	10/10/2021	11294.68954	11128.902	36	Marcellus
33	10/10/2021	11093.34444	10927.5569	36	Marcellus
34	10/10/2021	10891.99935	10726.2118	36	Marcellus
35	10/10/2021	10690.65425	10524.8667	36	Marcellus
36	10/10/2021	10489.30915	10323.5216	36	Marcellus
37	10/11/2021	10287.96405	10122.1765	36	Marcellus
38	10/11/2021	10086.61895	9920.83137	36	Marcellus
39	10/11/2021	9885.273856	9719.48627	36	Marcellus
40	10/11/2021	9683.928758	9518.14118	36	Marcellus
41	10/11/2021	9482.58366	9316.79608	36	Marcellus
42	10/11/2021	9281.238562	9115.45098	36	Marcellus
43	10/12/2021	9079.893464	8914.10588	36	Marcellus
44	10/12/2021	8878.548366	8712.76078	36	Marcellus
45	10/12/2021	8677.203268	8511.41569	36	Marcellus
46	10/12/2021	8475.85817	8310.07059	36	Marcellus
47	10/12/2021	8274.513072	8108.72549	36	Marcellus
48	10/12/2021	8073.167974	7907.38039	36	Marcellus
49	10/13/2021	7871.822876	7706.03529	36	Marcellus
50	10/13/2021	7670.477778	7504.6902	36	Marcellus
51	10/13/2021	7469.13268	7303.3451	36	Marcellus
52	10/13/2021	7267.787582	7102	36	Marcellus

API 47-095-02740 Farm Name John Shepherd Well Number Gatrell Unit 2H

**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	60.14	8185	7060	4314	180870	355177	N/A
2	10/03/2021	89.62	8405	5923	4833	411120	321910	N/A
3	10/03/2021	89.54	8244	6105	4749	405020	368920	N/A
4	10/04/2021	91.52	8549	5958	4660	409620	325587	N/A
5	10/04/2021	89.45	8403	5588	4633	401920	315612	N/A
6	10/04/2021	86.59	8438	6054	4427	408260	308344	N/A
7	10/04/2021	78.56	8394	6926	3781	407240	283183	N/A
8	10/05/2021	88.42	8369	6360	4014	403180	293889	N/A
9	10/05/2021	85.57	8192	5890	4298	407400	290906	N/A
10	10/05/2021	85.96	8243	8391	4432	408260	287971	N/A
11	10/05/2021	86.11	8160	6685	4276	410840	290269	N/A
12	10/05/2021	87.21	8266	5640	4310	407440	326625	N/A
13	10/06/2021	87.14	8239	6595	4283	403040	307097	N/A
14	10/06/2021	80.67	8058	8653	4455	407060	375095	N/A
15	10/06/2021	88.19	8216	6739	4380	414880	295286	N/A
16	10/06/2021	88.75	8204	6360	3998	411760	292556	N/A
17	10/07/2021	88.66	8318	6673	4411	407100	289268	N/A
18	10/07/2021	88.8	8217	5940	4089	405060	287033	N/A
19	10/07/2021	87.3	8137	7350	4027.47	406760	287236	N/A
20	10/07/2021	87.75	8122	7191	4203	412340	292845	N/A
21	10/07/2021	88.62	8124	5969	4479	409720	284354	N/A
22	10/08/2021	93.28	8338	6474	4564	414860	298315	N/A
23	10/08/2021	88.83	8453	6268	4528	402240	294386	N/A
24	10/08/2021	92.34	8519	7028	4644	403780	289301	N/A
25	10/08/2021	93.22	8510	5729	4781	405720	285243	N/A
26	10/09/2021	93.17	8328	6514	4507	404620	282710	N/A
27	10/09/2021	90.75	8429	7825	4662	411140	290163	N/A
28	10/09/2021	94.41	8413	5729	4710	408720	286996	N/A
29	10/09/2021	94.44	8335	3773	4354	402940	285091	N/A
30	10/09/2021	95.91	8390	7821	4730	405160	280878	N/A
31	10/10/2021	97.11	8300	6639	4498	409180	280305	N/A
32	10/10/2021	96.06	8308	7210	4595	402960	280206	N/A
33	10/10/2021	95.57	8297	7145	4654	398260	283595	N/A
34	10/10/2021	95.02	8122	8350	4336	402900	284537	N/A
35	10/10/2021	94.3	8256	6947	4914	410380	282139	N/A
36	10/10/2021	95.88	8269	6266	4909	403620	281342	N/A
37	10/11/2021	97.79	8310	7365	4671	403480	281354	N/A
38	10/11/2021	96.28	8105	7285	4450	404920	287770	N/A
39	10/11/2021	95.11	8075	6679	4591	408600	284752	N/A
40	10/11/2021	91.82	8225	7501	4630	410560	285194	N/A
41	10/11/2021	97.17	8244	7664	4623	419210	281792	N/A
42	10/11/2021	95.49	8201.53	7298.17	5309.94	416020	284941	N/A
43	10/12/2021	94.03	8215	6501	4651	411240	280702	N/A
44	10/12/2021	96.14	7869	6491	4437	406420	280324	N/A
45	10/12/2021	96	7910	7173	4627.77	416540	283332	N/A
46	10/12/2021	96.36	7793	6507	4511	407600	279463	N/A
47	10/12/2021	97.95	7898	8355	4532	412180	289445	N/A
48	10/12/2021	97.16	7961	7489	5008	410350	279850	N/A
49	10/13/2021	98.86	7800	6556	4931	409940	281941	N/A
50	10/13/2021	95.81	7740	8197	4693	403160	275880	N/A
51	10/13/2021	96.97	7557	7304	4730	404280	279644	N/A
52	10/13/2021	96.29	7629	7987	4332	402440	277428	N/A
	AVG=	91	8,198	6,810	4,522	20,972,310	15,278,182	TOTAL

API 47-095-02740 Farm Name John Shepherd Well Number Gatrell Unit 2H

**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	1,847	1,695	1,848
Big Lime	1,872	2,559	1,848	2,561
Fifty Foot Sandstone	2,559	2,665	2,536	2,667
Gordon	2,665	2,975	2,642	2,977
Fifth Sandstone	2,975	3,070	2,952	3,072
Bayard	3,070	3,730	3,047	3,735
Speechley	3,730	4,008	3,710	4,021
Balltown	4,008	4,532	3,996	4,575
Bradford	4,532	4,996	4,550	5,071
Benson	4,996	5,235	5,046	5,326
Alexander	5,235	6,462	5,301	6,637
Sycamore	6,264	6,437	6,406	6,612
Middlesex	6,437	6,568	6,612	6,800
Burkett	6,568	6,596	6,800	6,860
Tully	6,596	6,654	6,860	7,055
Marcellus	6,654	NA	7,055	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:	10/13/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02740-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GATRELL 2H
Latitude:	39.39357200
Longitude:	-80.76131900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,707
Total Base Water Volume (gal):	15,934,282
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	86.45107	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.06925	



MC B-8614A	MultiChem	Biocide					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			

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	13.38645	
			Complex Amine Compound	Proprietary	60.00000	0.03275	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01638	
			Proprietary	Proprietary	20.00000	0.01317	
			Hydrochloric acid	7647-01-0	30.00000	0.00843	
			Proprietary	Proprietary	10.00000	0.00658	
			Guar gum	9000-30-0	100.00000	0.00540	
			Surfactant	Proprietary	5.00000	0.00273	
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00273	
			Glutaraldehyde	111-30-8	30.00000	0.00252	
			Ethoxylated alcohols	Proprietary	5.00000	0.00055	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00055	
			Organic chloride compound	Proprietary	1.00000	0.00055	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Ammonium persulfate	7727-54-0	100.00000	0.00010	
			Ethanol	64-17-5	1.00000	0.00008	
			Methanol	67-56-1	100.00000	0.00005	
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	
			Modified thiourea polymer	Proprietary	30.00000	0.00002	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00002	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Formaldehyde	50-00-0	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	

			Organic salt #2	Proprietary	0.01000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00001
			Organic salt #1	Proprietary	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" 3,199'

LATITUDE 39°27'30" 5,917'

8,412'  
13,717'  
LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

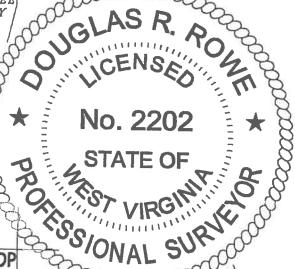
COUNTY NAME TYLER PERMIT

**Antero Resources Corporation**  
**Well No. Gatrell Unit 2H**

(NAD) 27 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 14,305,324ft E: 1,707,849ft  
POINT OF ENTRY INFORMATION:  
N: 14,305,260ft E: 1,708,379ft  
BOTTOM HOLE INFORMATION:  
N: 14,315,185ft E: 1,705,105ft

**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
N: 327,959ft E: 1,643,539ft  
LAT: 39°23'36.86" LON: 80°45'40.75"  
**BOTTOM HOLE INFORMATION:**  
N: 337,868ft E: 1,640,960ft  
LAT: 39°25'14.42" LON: 80°46'15.39"  
**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: 4,360,489m E: 520,568m  
BOTTOM HOLE INFORMATION:  
N: 4,363,495m E: 519,731m

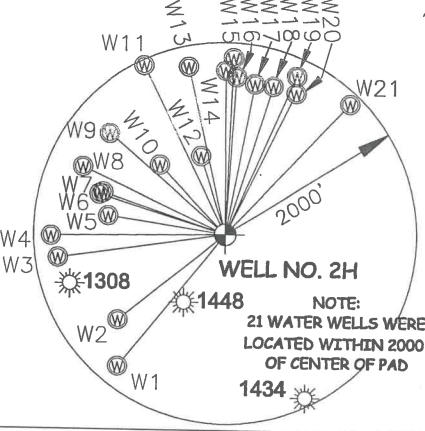


WV NORTH ZONE GRID NORTH

16-3	KES Investments 2 LLC
16-4	KES Investments 2 LLC
16-8	Juna Griffin
16-9	Jamie Straight
16-10	Mike Ross Inc.
16-11	Charles Straight
16-14	John Merritt
16-15	Ken Der Jr.
16-15.1	Ken Der Jr.
16-16	Harry Vannoy
19-15	Sharon George
19-16	Teresa Weckley
19-16.1	Teresa Weckley
19-16.2	Clifton Weckley
19-16.3	Clarissa Seese
19-16.4	Perry Weckley
19-17	Barren Seese
19-27	Sandra Hopper
19-28	William Forbes
19-29	John Shepherd
19-30	John Shepherd
19-55	Heith Howell
19-58	Robert Gille
19A-16	Arthur Kester

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 # **GATRELL2HAD**  
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 #2H**

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 - 095 - 02740  
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION **935' - ASBUILT** WATERSHED **McELROY CREEK** STATE **TYLER** COUNTY **TYLER** PERMIT  
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, HEIR OF HEATHER HARTLEY; JOHN B. SHEPHERD ET UX; RANDI MICHAEL; CLARISSA REED; GLENN DUCKWORTH; ADELIN WRIGHT ET AL;** LEASE ACREAGE **72.28 AC±; 29 AC±; 18 AC±; 320.94 AC±; 6.27 AC±; 29.92 AC±; 28 AC±; 86.25 AC±; 210 AC±; 100 AC±; 98.5AC±**  
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 **6,654' TVD 17,538' MD**  
WELL OPERATOR **ANTERO RESOURCES CORP.** DESIGNATED AGENT **DIANNA STAMPER - CT CORPORATION SYSTEM**  
ADDRESS **1615 WYNKOOP ST. DENVER, CO 80202** ADDRESS **5400 D BIG TYLER ROAD CHARLESTON, WV 25313**  
FORM WW-6