

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

API 47-095-02709 County Tyler District Union/Meade
Quad Middlebourne/ Ben's Run Pad Name Gorrell Field/Pool Name -----
Farm name Elizabeth Gorrell Well Number Garrison 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 4363191m Easting 500807m
Landing Point of Curve Northing 4363330.39m Easting 500862.39m
Bottom Hole Northing 4367252m Easting 499459m

Elevation (ft) 1045' 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 10/26/2020 Date drilling commenced 3/10/2021 Date drilling ceased 4/14/2021
Date completion activities began 5/26/2021 Date completion activities ceased 7/1/2021
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 505' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1378' 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

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Reviewed by:
DCN
12/21/21
12/31/2021

API 47-095 - 02709 Farm name Elizabeth Gorrell Well number Garrison 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"	593'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2579'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	20466'	New	20#, P-110	N/A	Y
Tubing		2-3/8"	6365'		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	266 sx	15.6	1.18	56	0'	8 Hrs.
Surface	Class A	600 sx	15.8	1.17	124	0'	8 Hrs.
Coal							
Intermediate 1	Class A	960 sx	15.8	1.17	186	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3255 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.16 (Tail)	763	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 20509' MD, 6174' TVD (BHL), 6264' (Deepest Point Drilled) Loggers TD (ft) 20509' MD

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

Plug back procedure N/A

Kick off depth (ft) 5515'

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 - 02709 Farm name Elizabeth Gorrell Well number Garrison 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.

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API 47- 095 - 02709 Farm name Elizabeth Gorrell Well number Garrison Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6191' (TOP)</u> TVD	<u>6441' (TOP)</u> 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 18185 mcfpd Oil 216 bpd NGL --- bpd Water -1 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 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 Halliburton Energy Services
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

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 10/10/21

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

12/31/2021

API 47-095-02709 Farm Name Elizabeth Gorrell Well Number Garrison Unit 1H

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/26/2021	20401	20359	36	Marcellus
2	5/27/2021	20317.99221	20103.9455	36	Marcellus
3	5/27/2021	20065.93766	19851.8909	36	Marcellus
4	5/27/2021	19813.88312	19599.8364	36	Marcellus
5	5/27/2021	19561.82857	19347.7818	36	Marcellus
6	5/28/2021	19309.77403	19095.7273	36	Marcellus
7	5/28/2021	19057.71948	18843.6727	36	Marcellus
8	5/28/2021	18805.66494	18591.6182	36	Marcellus
9	5/28/2021	18553.61039	18339.5636	36	Marcellus
10	5/28/2021	18301.55584	18087.5091	36	Marcellus
11	5/29/2021	18049.5013	17835.4545	36	Marcellus
12	5/29/2021	17797.44675	17583.4	36	Marcellus
13	5/29/2021	17545.39221	17331.3455	36	Marcellus
14	5/29/2021	17293.33766	17079.2909	36	Marcellus
15	5/30/2021	17041.28312	16827.2364	36	Marcellus
16	5/31/2021	16789.22857	16575.1818	36	Marcellus
17	5/31/2021	16537.17403	16323.1273	36	Marcellus
18	5/31/2021	16285.11948	16071.0727	36	Marcellus
19	6/1/2021	16033.06494	15819.0182	36	Marcellus
20	6/1/2021	15781.01039	15566.9636	36	Marcellus
21	6/2/2021	15528.95584	15314.9091	36	Marcellus
22	6/2/2021	15276.9013	15062.8545	36	Marcellus
23	6/2/2021	15024.84675	14810.8	36	Marcellus
24	6/3/2021	14772.79221	14558.7455	36	Marcellus
25	6/3/2021	14520.73766	14306.6909	36	Marcellus
26	6/4/2021	14268.68312	14054.6364	36	Marcellus
27	6/4/2021	14016.62857	13802.5818	36	Marcellus
28	6/5/2021	13764.57403	13550.5273	36	Marcellus
29	6/5/2021	13512.51948	13298.4727	36	Marcellus
30	6/5/2021	13260.46494	13046.4182	36	Marcellus
31	6/6/2021	13008.41039	12794.3636	36	Marcellus
32	6/6/2021	12756.35584	12542.3091	36	Marcellus
33	6/7/2021	12504.3013	12290.2545	36	Marcellus
34	6/7/2021	12252.24675	12038.2	36	Marcellus
35	6/7/2021	12000.19221	11786.1455	36	Marcellus
36	6/8/2021	11748.13766	11534.0909	36	Marcellus
37	6/8/2021	11496.08312	11282.0364	36	Marcellus
38	6/8/2021	11244.02857	11029.9818	36	Marcellus
39	6/8/2021	10991.97403	10777.9273	36	Marcellus
40	6/9/2021	10739.91948	10525.8727	36	Marcellus
41	6/9/2021	10487.86494	10273.8182	36	Marcellus
42	6/9/2021	10235.81039	10021.7636	36	Marcellus
43	6/10/2021	9983.755844	9769.70909	36	Marcellus
44	6/10/2021	9731.701299	9517.65455	36	Marcellus
45	6/10/2021	9479.646753	9265.6	36	Marcellus
46	6/11/2021	9227.592208	9013.54545	36	Marcellus
47	6/11/2021	8975.537662	8761.49091	36	Marcellus
48	6/11/2021	8723.483117	8509.43636	36	Marcellus
49	6/12/2021	8471.428571	8257.38182	36	Marcellus
50	6/12/2021	8219.374026	8005.32727	36	Marcellus
51	6/12/2021	7967.319481	7753.27273	36	Marcellus
52	6/13/2021	7715.264935	7501.21818	36	Marcellus
53	6/13/2021	7463.21039	7249.16364	36	Marcellus
54	6/14/2021	7211.155844	6997.10909	36	Marcellus
55	6/14/2021	6959.101299	6745.05455	36	Marcellus
56	6/14/2021	6707.046753	6493	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	5/26/2021	83.99	8293	9150	2569.8	176327	210872	N/A
2	5/27/2021	94.94	8739	5673	3570.3	504770	376698	N/A
3	5/27/2021	88.11	8239	5305	3529	504556	389653	N/A
4	5/27/2021	90.78	8563	5651	3680	498429	371018	N/A
5	5/27/2021	89.87	8504	6933	3757.13	504348	368605	N/A
6	5/28/2021	92.03	8424	5146	3517.36	505535	385550	N/A
7	5/28/2021	94.61	8746	5952	3315	504540	369234	N/A
8	5/28/2021	94.31	8570	6932	3229	507052	365710	N/A
9	5/28/2021	96.74	8496	5544	3243	504763	376277	N/A
10	5/28/2021	99.09	8408	6155	3292.43	505632	367564	N/A
11	5/29/2021	99.38	8215	5958	3734.33	504385	367897	N/A
12	5/29/2021	99.18	8284	6243	3428	508483	362373	N/A
13	5/29/2021	95.73	8530	5649	3392	504657	360609	N/A
14	5/29/2021	96.78	8536	5719	3488	504881	365445	N/A
15	5/30/2021	95.44	8430	7620	3905	504567	363879	N/A
16	5/31/2021	100.48	8333	5713	3761	504309	370233	N/A
17	5/31/2021	98.22	8538	6813	3727	502608	370430	N/A
18	5/31/2021	98.35	8671	5853	3599	504929	364661	N/A
19	6/1/2021	94.2	8600	6101	3311	504441	335204	N/A
20	6/1/2021	90.44	8604	6784	3706	504441	360913	N/A
21	6/2/2021	100.37	8482	4841	3492	504380	345345	N/A
22	6/2/2021	93.46	8539	6200	3642	501321	361736	N/A
23	6/2/2021	98.09	8698	6004	3541	504420	358787	N/A
24	6/3/2021	97.84	8507	4694	3357	505393	362447	N/A
25	6/3/2021	98.76	8491	5002	3495	504659	357700	N/A
26	6/4/2021	99.02	8354	4662	3465	504378	359010	N/A
27	6/4/2021	99.09	8402	5436	3401	503997	358709	N/A
28	6/5/2021	99.08	8494	5199	3668	504301	359845	N/A
29	6/5/2021	97.04	8441	5912	3581	500268	355692	N/A
30	6/5/2021	97.73	8378	8995	3751.21	504300	363317	N/A
31	6/6/2021	99.97	8139	4943	3507	504385	355811	N/A
32	6/6/2021	99.33	8456	5416	3557	503631	358371	N/A
33	6/7/2021	99.48	8418	4859	3565	504380	355912	N/A
34	6/7/2021	98.69	8237	4036	3355.26	510292	360516	N/A
35	6/7/2021	98.57	8099	6575	3384	504453	360535	N/A
36	6/8/2021	99.36	7925	6242	3573	504460	350107	N/A
37	6/8/2021	99.53	7851	5427	3434	508300	358318	N/A
38	6/8/2021	99.35	7469	5520	3764	506284	379026	N/A
39	6/8/2021	99.47	8048	5453	3512	507647	382561	N/A
40	6/9/2021	98.46	7639	5487	3541	505808	371369	N/A
41	6/9/2021	94.49	7459	6338	3557	499457	371087	N/A
42	6/9/2021	99.41	8376	6247	3636	505910	379004	N/A
43	6/10/2021	99.57	7779	6244	3521	510006	379838	N/A
44	6/10/2021	99.73	8247	6358	3492	506830	376337	N/A
45	6/10/2021	100.13	8247	6420	3459	505890	373364	N/A
46	6/11/2021	99.64	7543	6459	3502.66	512003	379657	N/A
47	6/11/2021	98.98	7381	6360	3624	507691	376968	N/A
48	6/11/2021	100.71	7845	6780	3328	501659	377317	N/A
49	6/12/2021	98.65	7365	7303	3536	505836	376142	N/A
50	6/12/2021	99.79	7314	4870	3531	507103	376583	N/A
51	6/12/2021	99.72	7630	6937	3709	505736	380063	N/A
52	6/13/2021	95.93	6577	6086	2400	498519	428759	N/A
53	6/13/2021	99.99	6261	4212	2720	505579	376968	N/A
54	6/14/2021	99.23	5692	4259	2744	505485	374071	N/A
55	6/14/2021	97.08	5534	4569	1957	505199	375506	N/A
56	6/14/2021	98.31	5668	2895	3065.69	507303	374146	N/A
	AVG=	97	8,031	5,860	3,431	27,950,916	20,493,749	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
Silty Sandstone	70	300	70	300
Sandy Siltstone	300	380	300	380
Sandstone	380	540	380	540
Sandy Siltstone	540	580	540	580
Silty Sandstone	580	630	580	630
Silty Shale	630	720	630	720
Shale	720	1,280	720	1,280
Sandstone	1,280	1,660	1,280	1,660
Sandy Siltstone	1,660	1,780	1,660	1,780
Silty Sandstone, tr Shale	1,780	1,820	1,780	1,820
Sandstone	1,820	1,870	1,820	1,870
Sandy siltstone	1,870	1,880	1,870	1,880
Sandstone	1,880	1,950	1,880	N/A
Big Lime	1,980	2,806	1,951	2,807
Fifty Foot Sandstone	2,806	2,914	2,777	2,915
Gordon	2,914	3,247	2,885	3,250
Fifth Sandstone	3,247	3,348	3,220	3,352
Bayard	3,348	3,917	3,322	3,929
Speechley	3,917	4,180	3,899	4,196
Balltown	4,180	4,494	4,166	4,515
Bradford	4,494	4,915	4,485	4,941
Benson	4,915	5,200	4,911	5,231
Alexander	5,200	6,115	5,201	6,239
Sycamore	5,991	6,085	6,073	6,209
Middlesex	6,085	6,168	6,209	6,375
Burkett	6,168	6,188	6,375	6,431
Tully	6,188	6,191	6,431	6,441
Marcellus	6,191	NA	6,441	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:	5/26/2021
Job End Date:	6/14/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02709-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GARRISON UNIT 1H
Latitude:	39.41816700
Longitude:	-80.99078000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,254
Total Base Water Volume (gal):	21,447,299
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 Mixture	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.58549	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.07713	

OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				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			
MC B-8614A	MultiChem	Biocide					
				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	13.27547	
			Complex Amine Compound	Proprietary	60.00000	0.02880	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01440	
			Hydrochloric acid	7647-01-0	30.00000	0.01200	
			Proprietary	Proprietary	20.00000	0.00776	
			Proprietary	Proprietary	10.00000	0.00388	
			Guar gum	9000-30-0	100.00000	0.00380	
			Glutaraldehyde	111-30-8	30.00000	0.00250	
			Surfactant	Proprietary	5.00000	0.00240	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00240	
			Ethoxylated alcohols	Proprietary	5.00000	0.00048	
			Organic chloride compound	Proprietary	1.00000	0.00048	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00048	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Ethanol	64-17-5	1.00000	0.00008	
			Methanol	67-56-1	100.00000	0.00008	
			Ammonium persulfate	7727-54-0	100.00000	0.00004	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00002	
			Modified thiourea polymer	Proprietary	30.00000	0.00002	
			Oxylated phenolic resin	Proprietary	30.00000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	

			Formaldehyde	50-00-0	0.01000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			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)

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

Page 1 of 2

9,168' to Top Hole

1,822' to Bottom Hole
LATITUDE 39 - 27 - 30

BTM LONGITUDE 81 - 00 - 00
TOP LONGITUDE 80 - 57 - 30
1,302' to Bottom Hole



Garrison Unit 1H As-Drilled
POE Coordinates
West Virginia
Coordinate System
of 1927, North Zone
N: 338,048.51'
E: 1,579,205.76'
Latitude: 39°25'06.83"
Longitude: 80°59'22.25"
UTM Zone 17, NAD 1983
N: 4,363,235.492m
E: 500,917.047m

Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Existing Plugged Well, as noted
- Existing Abandon Well, as noted
- Digitized Well, as noted
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

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.

Notes:

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Garrison Unit 1H Top Hole coordinates are
N: 337,909.80' Latitude: 39°25'05.40"
E: 1,578,844.91' Longitude: 80°59'26.82"
Bottom Hole coordinates are
N: 351,309.78' Latitude: 39°27'17.13"
E: 1,574,642.64' Longitude: 81°00'23.23"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,363,191.395m N: 4,367,252.338m
E: 500,807.819m E: 499,459.423m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.



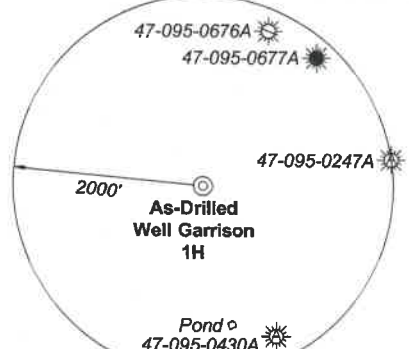
SEAL

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

14,630' to Top Hole

GRID NORTH



Note: 1 pond and 0 water wells were 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.

Tag	Bearing	Dist.
L1	S 85°33' E	426.4'
L2	S 26°57' E	2,243.0'
L3	N 47°40' W	2,525.5'
L4	N 02°36' W	2,165.0'

FILE NO: 54-54-M-17
DRAWING NO: Garrison Unit 1H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: October 4, 20 21
OPERATOR'S WELL NO. Garrison Unit 1H
API WELL NO
47 - 095 - 02709
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
As-Built
LOCATION: ELEVATION: 1045' WATERSHED: Outlet Middle Island Creek Top: Middlebourne
DISTRICT: Union / Meade QUADRANGLE: Btm: Bens Run
SURFACE OWNER: Elizabeth Gorrell Dale V. Hadley; Wilma Jane Benefield; Kenneth & Lora G. Thomas; WVDNR; John M. Garrison; BRC Appalachian Minerals I LLC (2); Jimmy B. Bailey; Elizabeth Gorrell, et al; Craig E. Smith; LEASE NO: COUNTY: Tyler ACREAGE: 242.50
ROYALTY OWNER: J&N Management Enterprises, LLC; Julie Summers (2); Ronald Aston ACREAGE: 81; 145; 168.5625;
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: 20,509' 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



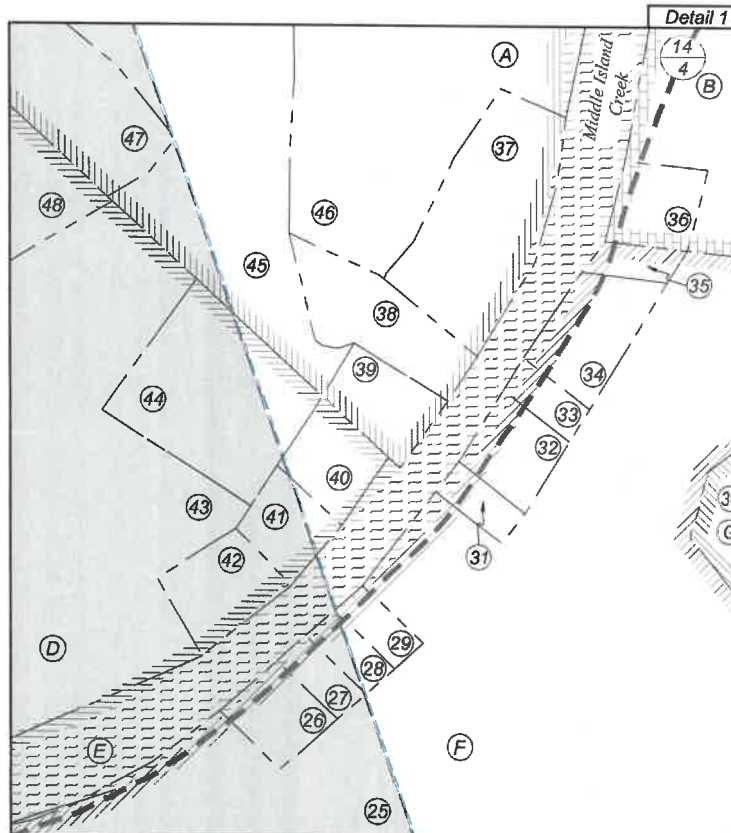
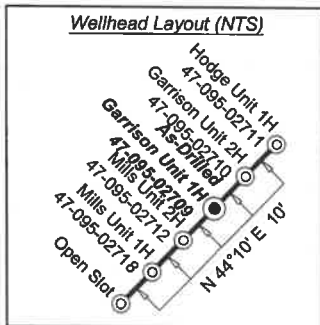
Tyler County - Meade District

No.	TM / Par	Owner	Bk / Pg	Ac.
1	7 / 15	Elizabeth Gorrell	321 / 360	242.50
2	7 / 16	Seven Spirits Farms, LLC	381 / 67	175.11
3	7 / 14	Russell G. & Ruth M. Smith Family Trust	541 / 608	50.00
4	7 / 10	Michael R. & Linda Fritzsimmmons	336 / 764	161.63
5	7 / 5	Coastal Forest Resources Co.	301 / 131	74.30
6	7 / 6	Joseph K. Turbish	390 / 22	75.00
7	4 / 30	Tony E. & Ellen L. Wince	246 / 25	97.15
8	7 / 5.1	Tony E. & Ellen L. Wince	246 / 25	5.70
9	4 / 27	Stanley M. & Shelba J. Shultz	202 / 438	271.29
10	4 / 29	Michael A. Domino	378 / 751	42.73
11	4 / 22	Lori C. & Ernest P. Herbold Jr., et al	343 / 714	63.60
12	4 / 23	Stanley N. Shelba J. Shultz, et al	335 / 958	41.27
13	4 / 23.3	William R. & Ruth R. Erlewine	433 / 585	17.00
14	4 / 11	Lori C. & Ernest P. Herbold Jr., et al	343 / 714	25.08
15	4 / 12	Gerold W. & Fay L. Bailey, Trustees of the Bailey Revocable Living Trust	374 / 647	47.00
16	4 / 13	Gerold W. & Fay L. Bailey, Trustees of the Bailey Revocable Living Trust	374 / 647	17.00
17	4 / 14	Roger L. H. & Dawn E. Billiter	290 / 155	26.03
18	4 / 3.4	Roger L. H. & Dawn E. Billiter	369 / 541	13.50
19	4 / 3.1	Roger L. H. & Dawn E. Billiter	354 / 118	7.54
20	4 / 3.2	Roger L. H. & Dawn E. Billiter	334 / 310	1.87

Tyler County - Union District

No.	TM / Par	Owner	Bk / Pg	Ac.
21	15 / 27	Jay L. & Carla Summers	429 / 201	35.13
22	15 / 14	Jay L. & Carla Summers, et al	W24 / 47	16.00
23	15 / 10	Craig E. Smith	335 / 275	16.00
24	15 / 38	Roger L. H. & Dawn E. Billiter	340 / 643	21.00
25	15 / 4	Stephen P. Racer	301 / 595	60.00
26	13 / 61	David W. & Sandra J. Myers	203 / 462	1.00
27	13 / 62	Thomas R. Minks	314 / 574	0.50
28	13 / 60	George W. & Marjorie Meeks	311 / 383	0.50
29	13 / 59	George W. & Marjorie Meeks	311 / 383	0.50
30	13 / 76	Robert Lawson	359 / 392	17.50
31	13 / 78	William C. Murphy	133 / 74	0.50
32	13 / 58	Charles S. Sapp	366 / 484	1.10
33	13 / 77	Olga E. Hawkins	205 / 705	0.50
34	13 / 57	Charles S. Sapp	366 / 484	1.50
35	13 / 56	Charles S. Sapp	366 / 484	0.50
36	13 / 55.1	Charles S. Sapp	271 / 309	1.00
37	13 / 74.12	Donald B. & Barbara S. Stokes	387 / 61	4.02
38	13 / 74.9	Donald B. & Barbara S. Stokes	385 / 18	2.06
39	13 / 74.10	Mary C. Stewart	362 / 63	1.20
40	13 / 63	George W. & Marjorie Meeks	311 / 383	1.00
41	13 / 65	Diana L. & George W. Meeks, Jr.	363 / 292	1.00
42	13 / 66	George W. & Marjorie Meeks	311 / 383	1.00
43	13 / 69	The Wilham Cabin Trust	568 / 172	28.50
44	13 / 64	George W. & Marjorie Meeks	311 / 383	4.00
45	13 / 74.5	Mary C. Stewart	362 / 63	30.58
46	13 / 74.2	Roger L. & Sara L. Hall	358 / 110	22.48
47	13 / 74.4	Jerry M. & Anna A. Cooper	358 / 102	5.35
48	13 / 73	Jerry M. & Anna A. Cooper	343 / 778	39.00
49	13 / 40	Jerry M. & Anna A. Cooper	352 / 148	6.60
50	13 / 74.3	Bobbin E. Pardine	358 / 115	22.88
51	13 / 74.1	Roger L. & Sara L. Hall	358 / 106	1.36
52	13 / 74	Mary C. Stewart	362 / 63	3.21

ID	Lease
A	J&N Management Enterprises, LLC
B	Geraldine Moses
C	Jerry M. & Anna A. Cooper
D	Kenneth & Lora G. Thomas
E	WVDNR
F	BRC Appalachian Minerals I, LLC
G	I.L. Morris
H	Ridgewood Development, LLC
I	Roger L. & Dawn E. Billiter
J	Ridgewood Development, LLC
K	Craig E. Smith
L	Julie Summers
M	Julie Summers
N	Roger L. & Dawn E. Billiter
O	Jimmy B. Bailey
P	RMH Trust
Q	Jimmy B. Bailey
R	The Thelma E. Hadley Testamentary Trust, Judy L. Mellor, as Trustee
S	Dale V. Hadley
T	BRC Appalachian Minerals I, LLC
U	John M. Garrison
V	Ronald Aston
W	Michael A. Domino
X	Tony E. & Ellen L. Wince
Y	BRC Appalachian Minerals I, LLC
Z	Tony E. & Ellen L. Wince
AA	Wilma Jane Benefield
AB	Rita G. Jarvis
AC	Kerr-McGee Oil & Gas Onshore LP
AD	Janet Sue Baker
AE	Elizabeth Gorrell, et al
AF	Mary E. Clymer



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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1045' WATERSHED: Outlet Middle Island Creek
 DISTRICT: Union / Meade Top: Middlebourne
 SURFACE OWNER: Elizabeth Gorrell COUNTY: Tyler 100.93125; 20.41;
 ROYALTY OWNER: J&N Management Enterprises, LLC; Julie Summers (2); Ronald Aston LEASE NO: 123170677 ACREAGE: 242.50 234.70; 17.68125;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION 35.13; 16; 64.36;
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 81; 145; 166.5625;
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,174' TVD
 20,509' 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