

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

API 47-095-02591-02951 County Tyler District Meade
Quad Middlebourne 7.5' Pad Name Gorrell Pad Field/Pool Name -----
Farm name Elizabeth Gorrell Well Number Grounds 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 4363237.342m Easting 500840.902m
Landing Point of Curve Northing 4363264.36m Easting 501439.11m
Bottom Hole Northing 4360237.869m Easting 502534.228m

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

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Date permit issued 3/15/2019 Date drilling commenced 3/26/2019 Date drilling ceased 6/10/2019
Date completion activities began 10/5/2019 Date completion activities ceased 11/19/2019
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 108', 505' Open mine(s) (Y/N) depths No WV Department of
Salt water depth(s) ft 1378', 1544' Void(s) encountered (Y/N) depths No Environmental Protection
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
CJB
4/15/2020

API 47- 095 - 02591 ~~02951~~ Farm name Elizabeth Gorrell Well number Grounds 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"	110'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	631'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2603'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17653'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6753'		4.7#, N-80		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	214 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	631 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	890 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	675sx (Lead) 2647sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.40 (Lead), 1.26 (Tail)		~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17672' MD, 6350' TVD (BHL), 6350' (Deepest Point Drilled) Loggers TD (ft) 17672' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 5741'

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

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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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 095 - 02591 02951 Farm name Elizabeth Gorrell Well number Grounds Unit 2H

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								RECEIVED Office of Oil and Gas APR 20 2020 WV Department of Environmental Protection

Please insert additional pages as applicable.

API 47- 095 - 02591 02951 Farm name Elizabeth Gorrell Well number Grounds Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6208' (TOP) TVD	6802' (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 747 mcfpd Oil 0 bpd NGL --- bpd Water 477 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 Patterson UTI Drilling Company LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company KLX Energy Services
Address 3040 Post Oak Boulevard City Houston State TX Zip 77056

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

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

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature  Title Permitting Agent Date 4.3.20
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API 47-095-02951 Farm Name Elizabeth Gorrell Well Number Grounds Unit 2H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/17/2019	17504.4	17559.1	60	Marcellus
2	9/18/2019	17303.406	17472.901	60	Marcellus
3	9/18/2019	17102.412	17271.907	60	Marcellus
4	9/18/2019	16901.418	17070.913	60	Marcellus
5	9/19/2019	16700.424	16869.919	60	Marcellus
6	9/19/2019	16499.43	16668.925	60	Marcellus
7	9/19/2019	16298.436	16467.931	60	Marcellus
8	9/20/2019	16097.442	16266.937	60	Marcellus
9	9/20/2019	15896.448	16065.943	60	Marcellus
10	9/21/2019	15695.454	15864.949	60	Marcellus
11	9/22/2019	15494.46	15663.955	60	Marcellus
12	9/22/2019	15293.466	15462.961	60	Marcellus
13	9/22/2019	15092.472	15261.967	60	Marcellus
14	9/23/2019	14891.478	15060.973	60	Marcellus
15	9/23/2019	14690.484	14859.979	60	Marcellus
16	9/23/2019	14489.49	14658.985	60	Marcellus
17	9/24/2019	14288.496	14457.991	60	Marcellus
18	9/24/2019	14087.502	14256.997	60	Marcellus
19	9/24/2019	13886.508	14056.003	60	Marcellus
20	9/25/2019	13685.514	13855.009	60	Marcellus
21	9/25/2019	13484.52	13654.015	60	Marcellus
22	9/25/2019	13283.526	13453.021	60	Marcellus
23	9/26/2019	13082.532	13252.027	60	Marcellus
24	9/26/2019	12881.538	13051.033	60	Marcellus
25	9/27/2019	12680.544	12850.039	60	Marcellus
26	9/27/2019	12479.55	12649.045	60	Marcellus
27	9/27/2019	12278.556	12448.051	60	Marcellus
28	9/28/2019	12077.562	12247.057	60	Marcellus
29	9/28/2019	11876.568	12046.063	60	Marcellus
30	9/28/2019	11675.574	11845.069	60	Marcellus
31	9/28/2019	11474.58	11644.075	60	Marcellus
32	9/29/2019	11273.586	11443.081	60	Marcellus
33	9/29/2019	11072.592	11242.087	60	Marcellus
34	9/29/2019	10871.598	11041.093	60	Marcellus
35	9/29/2019	10670.604	10840.099	60	Marcellus
36	9/30/2019	10469.61	10639.105	60	Marcellus
37	9/30/2019	10268.616	10438.111	60	Marcellus
38	9/30/2019	10067.622	10237.117	60	Marcellus
39	9/30/2019	9866.628	10036.123	60	Marcellus
40	10/1/2019	9665.634	9835.129	60	Marcellus
41	10/1/2019	9464.64	9634.135	60	Marcellus
42	10/1/2019	9263.646	9433.141	60	Marcellus
43	10/1/2019	9062.652	9232.147	60	Marcellus
44	10/2/2019	8861.658	9031.153	60	Marcellus
45	10/2/2019	8660.664	8830.159	60	Marcellus
46	10/3/2019	8459.67	8629.165	60	Marcellus
47	10/3/2019	8258.676	8428.171	60	Marcellus
48	10/3/2019	8057.682	8227.177	60	Marcellus
49	10/4/2019	7856.688	8026.183	60	Marcellus
50	10/4/2019	7655.694	7825.189	60	Marcellus
51	10/4/2019	7454.7	7624.195	60	Marcellus
52	10/4/2019	7253.706	7423.201	60	Marcellus
53	10/5/2019	7052.712	7222.207	60	Marcellus
54	10/5/2019	6851.718	7021.213	60	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	9/17/2019	72	8412		3311	160720	4858.5	N/A
2	9/18/2019	78.76	8371	5923	3441	284700	9290.4	N/A
3	9/18/2019	74.09	8320	5638	3473	285700	9427.8	N/A
4	9/18/2019	71.78	8309	5493	3295	284780	9484.3	N/A
5	9/19/2019	72.47	8319	5841	3573	290240	9062.4	N/A
6	9/19/2019	80.21	8177	5477	4137	287480	9146.2	N/A
7	9/19/2019	74.18	8151	5422	3348	282380	8996.7	N/A
8	9/20/2019	77.51	8288	5367	3296	287260	8941.8	N/A
9	9/20/2019	62.89	8464	5510	5248	287260	12224.7	N/A
10	9/21/2019	71.96	8351	5571	5015	283660	8672.3	N/A
11	9/22/2019	78.16	8301	5402	5023	284760	10791	N/A
12	9/22/2019	76.05	8116	5286	3252	285160	10474.4	N/A
13	9/22/2019	76.38	8302	5271	3690	282600	10156.9	N/A
14	9/23/2019	75.04	8234	5044	4493	282920	12417.9	N/A
15	9/23/2019	73.51	8099	5584	3559	285420	8801.9	N/A
16	9/23/2019	74.11	8209	5059	3018	278320	10132.1	N/A
17	9/24/2019	80.29	8049	5443	3197	287580	8798.5	N/A
18	9/24/2019	83.78	7922	5862	3206	289180	8991	N/A
19	9/24/2019	82.22	7614	5937	3129	287000	8798.1	N/A
20	9/25/2019	78.85	7331	5644	3239	295500	9364.7	N/A
21	9/25/2019	83.96	7778	5784	3050	288420	8613.5	N/A
22	9/25/2019	84.43	7613	5973	3218	284660	8867	N/A
23	9/26/2019	83.99	7488	6156	3360	282380	8813.8	N/A
24	9/26/2019	81.36	7386	5931	3363	282380	8899.7	N/A
25	9/27/2019	86.04	7691	5899	3098	282280	8764	N/A
26	9/27/2019	83.1	7482	5399	3015	285960	8814.8	N/A
27	9/27/2019	84.32	7339	5340	3383	288460	8670.4	N/A
28	9/28/2019	84	7475	5430	3333	281240	8702.5	N/A
29	9/28/2019	82.8	7403	5041	3233	281980	8819.7	N/A
30	9/28/2019	85.05	7014	4341	3355	285400	8737.2	N/A
31	9/28/2019	85.13	6960	3484	3411	278960	8854.9	N/A
32	9/29/2019	83.66	7112	5135	3194	278660	8508.1	N/A
33	9/29/2019	82.36	7176	5619	3400	286020	8749.3	N/A
34	9/29/2019	84.04	7017	5700	3415	286200	8687.7	N/A
35	9/29/2019	84.7	7574	5852	3281	285820	8498.6	N/A
36	9/30/2019	84.59	7008	5543	3242	283360	8443.4	N/A
37	9/30/2019	80.21	7010	5991	3170	282200	8485.9	N/A
38	9/30/2019	82.67	7035	5600	3273	280540	8447.1	N/A
39	9/30/2019	83.78	7369	5820	2977	291260	8569.8	N/A
40	10/1/2019	83.65	6953	5463	3105	280620	8505.7	N/A
41	10/1/2019	75.43	7449	5971	3186	286700	9744.9	N/A
42	10/1/2019	85.07	7024	5541	3488	289000	8522	N/A
43	10/1/2019	85.35	7089	5682	3238	287000	8598.3	N/A
44	10/2/2019	26.14	7109	6014	2871	282340	11350.9	N/A
45	10/2/2019	82.27	6894	5542	3514	283320	8615.5	N/A
46	10/3/2019	81.24	6914	5893	3149	283720	8712.4	N/A
47	10/3/2019	49.2	7337	5658	4690	285480	13352.6	N/A
48	10/3/2019	84.93	6569	5328	3306	283440	8578	N/A
49	10/4/2019	84.19	6702	5532	3200	279340	8594.9	N/A
50	10/4/2019	73.57	6600	8963	3148	281920	8465.6	N/A
51	10/4/2019	76.83	6475	5738	3201	278700	8352.8	N/A
52	10/4/2019	84.09	6916	5303	3195	281440	8397.4	N/A
53	10/5/2019	85.4	6788	5560	3084	277900	8531.2	N/A
54	10/5/2019	85.33	6177	6557	3273	286340	8528.6	N/A
	AVG	78.7	7,662	5,523	3,447	12,697,780	409,116	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	85	300	70	70
Sandy Siltstone	145	380	300	300
Sandstone	185	540	380	380
Sandy Siltstone	540	580	540	540
Silty Sandstone	655	630	580	580
Silty Shale	705	720	630	630
Shale	985	1,280	720	720
Sandstone	1,035	1,660	1,280	1,280
Sandy Siltstone	1,105	1,780	1,660	1,660
Silty Sandstone, tr Shale	1,285	1,820	1,780	1,780
Sandstone	1,405	1,870	1,820	1,820
Sandy siltstone	1,635	1,880	1,870	1,870
Sandstone	1,725	1,903	1,880	1,880
Big Lime	1,987	2,673	0	1,933
Fifty Foot Sandstone	2,865	2,854	0	2,673
Gordon	2,945	3,053	0	2,854
Fifth Sandstone	3,106	3,202	0	3,053
Bayard	3,314	3,923	0	3,202
Speechley	3,828	4,160	0	3,923
Balltown	4,080	4,602	0	4,160
Bradford	4,665	4,957	0	4,602
Benson	4,997	5,227	0	4,957
Alexander	5,254	6,128	0	5,227
Sycamore	6,195	6,098	6,394	6,002
Middlesex	6,315	6,185	6,540	6,098
Burkett	6,425	6,202	6,733	6,185
Tully	6,459	6,208	6,782	6,202
Marcellus	6,493	NA	6,802	6,208

*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:	9/17/2019
Job End Date:	10/4/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02591-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Grounds 2H
Latitude:	39.41858100
Longitude:	-80.99039700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,852
Total Base Water Volume (gal):	21,600,726
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
Fresh Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	57.51397	Density = 8.34
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	31.56319	Density = 8.50

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Ingredients	Listed Above	Listed Above	Listed Above						
			Water		7732-18-5	100.00000	0.23501		
Sand-Premium White-30/50	Halliburton		Proppant		Listed Below				
CalFrac CalBreak 5501	Calfrac Well Services Corp.		Oxidizer		Listed Below				
FDP-S1296-17	Halliburton		Acid Corrosion Inhibitor		Listed Below				
LD-2950	MultiChem		Friction Reducer		Listed Below				
FORSA SCW4037W SCALE INHIBITOR	Baker Hughes		Scale Inhibitor		Listed Below				
HYDROCHLORIC ACID, 22 BAUME	Halliburton		Solvent		Listed Below				
Sand-Premium White-40/70	Halliburton		Proppant		Listed Below				

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MC B-8614	Halliburton	Biocide												
					Listed Below									
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant												
					Listed Below									
WG-36 GELLING AGENT	Halliburton	Gelling Agent												
					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				10.61095				
			Hydrochloric acid		7647-01-0	15.00000				0.03371				
			Guar gum		9000-30-0	100.00000				0.01971				
			Hydrotreated light petroleum distillate		64742-47-8	30.00000				0.01574				
			Glutaraldehyde		111-30-8	30.00000				0.00308				
			Alkanolamine phosphate		Trade Secret	30.00000				0.00122				
			Methanol		67-56-1	100.00000				0.00108				
			Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, branched		69011-36-5	1.00000				0.00052				
			Ethoxylated alcohols		Proprietary	1.00000				0.00052				
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides		68424-85-1	5.00000				0.00051				
			Peroxydisulfuric acid ((HO)S(O)2]2O2), ammonium salt (1:2)		7727-54-0	100.00000				0.00045				
			Ethylene glycol		107-21-1	5.00000				0.00020				
			Ethanol		64-17-5	1.00000				0.00010				

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			2-Propenoic acid, methyl ester, polymer with 1,1-dichloroethene	25038-72-6	20.00000	0.00009	
			Modified thiourea polymer	Proprietary	30.00000	0.00005	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00005	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00001	

* 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)

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**Antero Resources
Well No. Grounds
Unit 2H
As-Drilled Plat**
Antero Resources Corporation



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.

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, P.S. 2167



SEAL

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Grounds Unit 2H Top Hole coordinates are
N: 338,058.76' Latitude: 39°25'06.89"
E: 1,578,955.99' Longitude: 80°59'25.44"
Bottom Hole coordinates are
N: 328,123.03' Latitude: 39°23'29.58"
E: 1,584,348.33' Longitude: 80°58'14.66"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,363,237.342m N: 4,360,237.869m
E: 500,840.902m E: 502,534.228m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

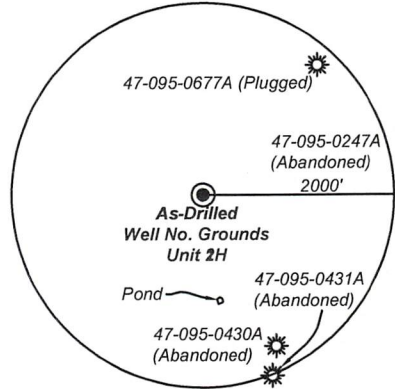
FILE NO: 50-54-M-17
DRAWING NO: Grounds 2H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

Legend

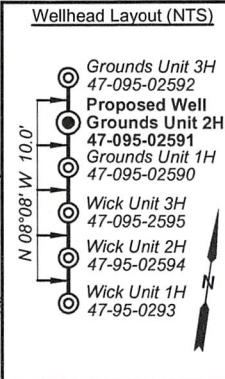
- ⊙ Proposed gas well
- ⊗ Monument, as noted
- ⊛ Existing Well, as noted
- ⊙ Digitized Well, as noted
- Creek or Drain
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)

	Bearing	Dist.
L1	N 77°48' E	548.5'
L2	S 43°45' W	1,667.5'
L3	S 85°47' W	1,940.8'
L4	N 22°53' W	1,859.0'

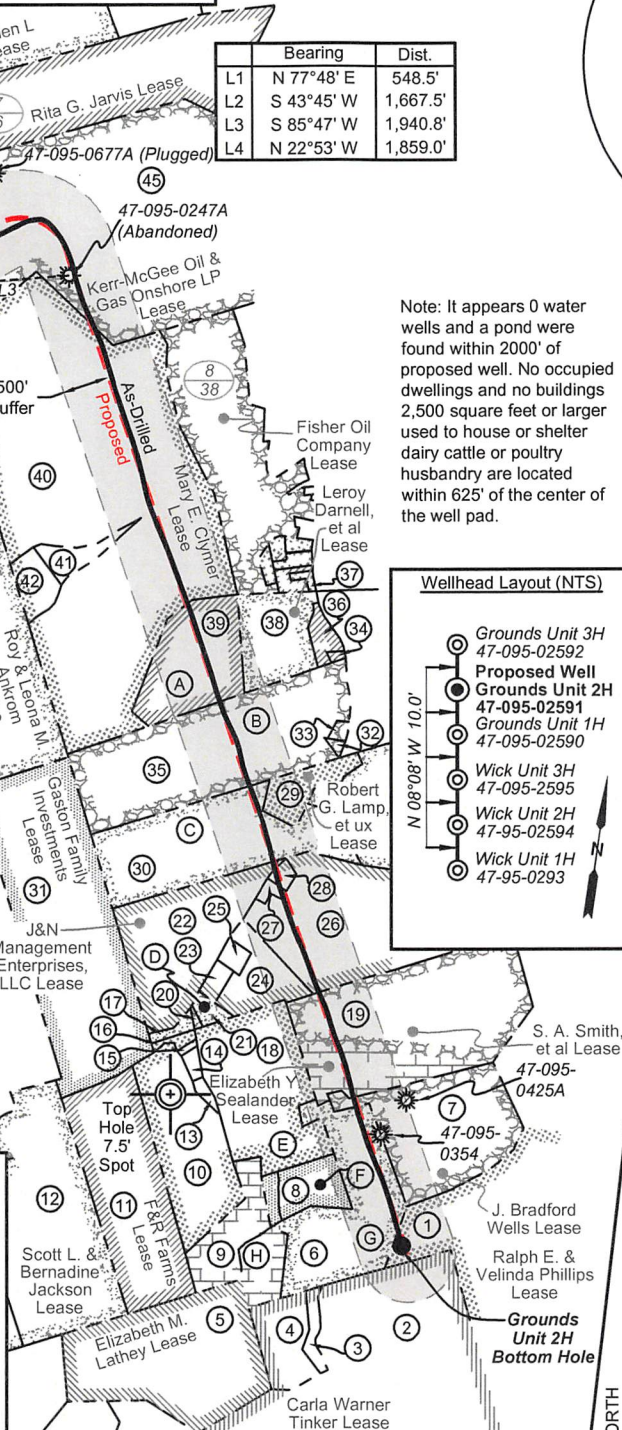
TOP Hole LATITUDE 39 - 27 - 30
BTM Hole LATITUDE 39 - 25 - 00



Note: It appears 0 water wells and a pond were found within 2000' of proposed well. No occupied dwellings and no 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.



ID	TM/Par	Owner	Bk/Pg	Acres
47	7/14	Smith	121/11	50.00
46	7/5	Coastal Forest Resources Co.	352/148	6.60
45	7/10	Fritzsimmmons	336/764	161.63
44	7/15	Correll	321/360	242.50
43	7/20	Ankrom	357/397	62.25
42	7/26	Freeland	348/231	5.64
41	7/26.1	Glover	347/492	4.36
40	7/16	Seven Spirits Farms, LLC	381/67	175.11
39	7/27	Darnell (Life)	260/657	23.49
Bottom Hole 7.5' Spot				
38	8/47	Darnell, et ux	260/657	16.50
37	8A/12.3	Leasure	WB 43/148	0.77
36	8/40	Darnell (Life)	260/657	3.05
35	8/42	Brisendine	353/369	49.03
34	8/41	Dunham	352/628	0.35
33	8/43	Dawson (Life)	365/198	0.67
32	8/43.1	Lamp	365/203	0.55
31	10/11	Tartal	342/109	80.32
30	8/46	Snider	376/614	49.03
29	8/48	Lamp	344/384	12.16
28	11/4.3	Forrester	386/291	1.35
27	11/5.1	Forrester	255/713	0.85
26	11/5	Forrester	285/111	67.57
25	11/4.2	Forrester & Bates	445/300	1.67
24	11/4	Forrester	285/111	7.37
23	11/4.1	Forrester	275/76	1.82
22	10/12	Serafine	352/624	32.00
21	11/3	Shields	324/287	1.84
20	11/1.1	Shields	324/287	0.23
19	11/6	LeMasters	294/151	62.00
18	11/2	Grim & Beck	333/675	35.00
17	11/1	Shields	493/423	1.76
16	10/13	Hendrickson	234/71	2.13
15	11/37	Hendrickson	255/100	0.343
14	11/38	Reed	343/196	1.063
13	11/36	Mossor	230/255	0.94
12	10/16	Jackson, et al	355/311	71.18
11	10/15	F&R Farm, LLC	343/331	47.17
10	10/14	Hendrickson	261/272	38.50
9	11/29	Hendrickson	261/272	10.00
8	11/28	Kasper	309/500	8.21
7	11/26	Waide (Life)	WB32/383	41.06
6	11/27	Yeater, et al	379/609	32.25
5	11/30	Shea, et al	356/33	60.00
4	11/31	Kronau, et al	481/185	11.07
3	11/32.1	Kronau, et al	481/185	2.22
2	11/32	Hall	338/287	153.11
1	11/25	Hamilton	352/524	71.79



Leases

A Janice Rieck	E Patricia G. Mason
B DWG Oil & Gas Acquisitions, LLC	F Ann W. Clutter
C Ottis F. Wilcox	G Kevin Andrew Yeater
D J. Bradford Wells	H J. Bradford Wells

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

DATE: February 28 20 20
OPERATOR'S WELL NO. Grounds Unit 2H
API WELL NO
47 - 095 - 02591
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1045' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 71.79375; 507.42168;
DISTRICT: Meade J&N Management Enterprises, LLC Elizabeth Y. Sealander; J. Bradford Wells; Ralph E. & Velinda Phillips; COUNTY: Tyler 14.6125; 39.04;
SURFACE OWNER: Elizabeth Gorrell DWG Oil & Gas Acquisitions, LLC, Ottis F. Wilcox; Kevin Andrew Yeater; ACREAGE: 242.5 50; 47.3875;
ROYALTY OWNER: Wilma Jane Benefield; Kerr-McGee Oil & Gas Onshore LP; Janice Rieck LEASE NO: ACREAGE: 74.3; 201.8; 185 83.12; 116.46;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION 234.74; 28.97207;
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled ESTIMATED DEPTH: 17,672' MD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale

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