

Review

Julia
7/1/18

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

API 47 - 017 - 06697 County Doddridge District West Union
Quad West Union 7.5' Pad Name Yvonne Pad Field/Pool Name ----
Farm name Yvonne Foster Well Number Walker 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 4355500.000m Easting 519867.200m
Landing Point of Curve Northing 4355231.86m Easting 519649.83m
Bottom Hole Northing 4352670.773m Easting 520706.611m

Elevation (ft) 1229' 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 2/25/2015 Date drilling commenced 6/29/2016 Date drilling ceased 10/19/2016
Date completion activities began 10/9/2017 Date completion activities ceased 2/25/2018
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 225' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1400' 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:

07/20/2018

API 47-017 - 06697 Farm name Yvonne Foster Well number Walker Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	41'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	575'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2528'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16552'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7088'		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	102 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	600 sx	15.6	1.19	714	0'	8 Hrs.
Coal							
Intermediate 1	Class A	984 sx	15.6	1.18	1161	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	900 sx (Lead) 1325 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	3774	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16564 MD, 7022' TVD (BHL), 7022' (Deepest Point Drilled) Loggers TD (ft) 16564 MD

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

Plug back procedure N/A

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Kick off depth (ft) 6456'

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 47-017-06697 Farm Name Yvonne Foster Well Number Walker Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/9/2017	16295	16462	48	Marcellus
2	11/22/2017	16097	16264	48	Marcellus
3	11/23/2017	15898	16065	48	Marcellus
4	1/1/2018	15700	15867	48	Marcellus
5	1/2/2018	15501	15669	48	Marcellus
6	1/2/2018	15303	15470	48	Marcellus
7	1/3/2018	15105	15272	48	Marcellus
8	1/4/2018	14906	15074	48	Marcellus
9	1/4/2018	14708	14875	48	Marcellus
10	1/5/2018	14510	14677	48	Marcellus
11	1/7/2018	14311	14479	48	Marcellus
12	1/8/2018	14113	14280	48	Marcellus
13	1/8/2018	13914	14082	48	Marcellus
14	1/9/2018	13716	13883	48	Marcellus
15	1/9/2018	13518	13685	48	Marcellus
16	1/9/2018	13319	13487	48	Marcellus
17	1/10/2018	13121	13288	48	Marcellus
18	1/10/2018	12923	13090	48	Marcellus
19	1/10/2018	12724	12892	48	Marcellus
20	1/11/2018	12526	12693	48	Marcellus
21	1/12/2018	12328	12495	48	Marcellus
22	1/13/2018	12129	12296	48	Marcellus
23	1/14/2018	11931	12098	48	Marcellus
24	1/15/2018	11732	11900	48	Marcellus
25	1/16/2018	11534	11701	48	Marcellus
26	1/18/2018	11336	11503	48	Marcellus
27	1/19/2018	11137	11305	48	Marcellus
28	1/20/2018	10939	11106	48	Marcellus
29	1/20/2018	10741	10908	48	Marcellus
30	1/21/2018	10542	10710	48	Marcellus
31	1/22/2018	10344	10511	48	Marcellus
32	1/22/2018	10146	10313	48	Marcellus
33	1/23/2018	9947	10114	48	Marcellus
34	1/24/2018	9749	9916	48	Marcellus
35	1/25/2018	9550	9718	48	Marcellus
36	1/25/2018	9352	9519	48	Marcellus
37	1/26/2018	9154	9321	48	Marcellus
38	1/27/2018	8955	9123	48	Marcellus
39	1/27/2018	8757	8924	48	Marcellus
40	1/28/2018	8559	8726	48	Marcellus
41	1/29/2018	8360	8528	48	Marcellus
42	1/29/2018	8162	8329	48	Marcellus
43	1/30/2018	7963	8131	48	Marcellus
44	1/30/2018	7765	7932	48	Marcellus
45	1/30/2018	7567	7734	48	Marcellus
46	1/30/2018	7368	7536	48	Marcellus
47	1/31/2018	7170	7337	48	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	10/9/2017	74.6862	8538.304	0	3833	508,760	10775	N/A
2	11/22/2017	73.6424	7945.332	5519	5593	509,350	11262	N/A
3	11/23/2017	74.4844	7713.548	6538	4477	510,780	10627	N/A
4	1/1/2018	65.455	7426.613	5906	5049	508,655	11272	N/A
5	1/2/2018	65.0902	7280.065	5572	3819	509,240	10490.71	N/A
6	1/2/2018	66.1019	7520.285	5441	5097	511,420	10667.14	N/A
7	1/3/2018	64.3296	7550.264	6654	4314	509,970	10440	N/A
8	1/4/2018	64.931	7579.95	5322	3617	513,350	10376	N/A
9	1/4/2018	65.4137	7489.782	5816	3644	510,540	10419	N/A
10	1/5/2018	62.2991	7461.856	6396	3627	483,500	10725	N/A
11	1/7/2018	60.0419	7595.637	6593	4639	468,590	12549	N/A
12	1/8/2018	70.8616	7955.074	5550	5416	510,895	10374.76	N/A
13	1/8/2018	74.6814	8110.602	5763	5103	510,015	10379.67	N/A
14	1/9/2018	71.7186	7675.017	5678	5295	508,740	10348.67	N/A
15	1/9/2018	73.6035	7961.479	5695	4213	508,080	10379.95	N/A
16	1/9/2018	73.9364	7628.552	5826	4817	508,820	10348.9	N/A
17	1/10/2018	72.62357	8005.07	5725	4335	508,805	10811.55	N/A
18	1/10/2018	75.1933	7791.114	5468	4056	509,220	10420.48	N/A
19	1/10/2018	72.0856	7391.585	5349	4684	510,920	10217.74	N/A
20	1/11/2018	75.8861	7484.335	5477	4432	509,515	10218.95	N/A
21	1/12/2018	74.1749	7582.247	5255	4737	511,340	10284.36	N/A
22	1/13/2018	74.4141	7511.173	5590	5021	510,060	10214.14	N/A
23	1/14/2018	72.6678	7715.464	5698	4002	510,390	10391.95	N/A
24	1/15/2018	74.8474	7657.084	5403	5034	511,765	10255.71	N/A
25	1/16/2018	72.7046	7760.845	5459	4045	510,600	10331.1	N/A
26	1/18/2018	74.5923	7295.070	5406	5123	509,850	10366.24	N/A
27	1/19/2018	74.2658	7169.112	5627	5123	509,700	10338.81	N/A
28	1/20/2018	74.886	7286.012	5702	4028	508,880	10377	N/A
29	1/20/2018	73.0577	7565.016	5650	4101	510,500	10159	N/A
30	1/21/2018	67.1983	7026.309	5680	3998	509,950	10223.93	N/A
31	1/22/2018	74.2	7430	5894	4900	509,800	10218.29	N/A
32	1/22/2018	74.5737	7382.84	5589	4134	510,860	10338	N/A
33	1/23/2018	70.3743	7199.599	5625	3715	510,000	10236.88	N/A
34	1/24/2018	74.4914	7067.606	5469	3954	509,800	10206.69	N/A
35	1/25/2018	73.4671	7294.282	5497	3842	510,220	10078	N/A
36	1/25/2018	71.8648	7257.078	5751	4956	511,300	11688.9	N/A
37	1/26/2018	66.5616	7010.712	5494	4228	508,500	11005.21	N/A
38	1/27/2018	68.861	7066.05	5742	3697	509,190	10287	N/A
39	1/27/2018	71.7806	7193.599	6286	4009	506,900	10128.07	N/A
40	1/28/2018	73.9595	6820.651	5606	3941	508,280	10873.67	N/A
41	1/29/2018	73.6934	7182.617	5703	4136	507,600	10983.81	N/A
42	1/29/2018	71.6217	6977.563	5461	4553	510,325	10266	N/A
43	1/30/2018	74.3262	6852.307	5727	5566	508,700	10028.81	N/A
44	1/30/2018	74.2826	7059.883	5413	4962	509,420	10103	N/A
45	1/30/2018	69.3	6953.1	5845	4386	512,005	10015.43	N/A
46	1/30/2018	70.1	6844.8	5473	4706	507,830	10206.19	N/A
47	1/31/2018	72.3028	6604.325	5788	5038	508,670	10166.1	N/A
AVG=		71.4	7,423	5,574	4,468	23,891,600	492,876	TOTAL

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API 47-017-06697 Farm Name Yvonne Foster Well Number Walker Unit 2H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Fresh Water	225'	N/A	225'	N/A
Siltstone/Sandstone	0	147	0	87
Silty shale	est. 147	205	est. 87	227
Sandstone/Siltstone/Shale	est. 205	327	est. 227	347
Silty shale	est. 327	447	est. 347	565
Siltstone	est. 447	547	est. 565	607
Silty shale	est. 547	607	est. 607	1,127
Shale	est. 607	687	est. 1127	1,387
Silty sandstone	est. 687	727	est. 1387	1,507
Silty shale	est. 727	767	est. 1507	1,727
Sandstone tr coal	est. 767	787	est. 1727	1,767
Sandy shale	est. 787	907	est. 1767	1,807
Silty shale	est. 907	1,147	est. 1807	1,847
Silty sandstone	est. 1147	2,148	est. 1847	2,149
Big Lime	2,148	2,805	2,149	2,806
Fifty Foot Sandstone	2,805	2,903	2,806	2,904
Gordon	2,903	3,177	2,904	3,180
Fifth Sandstone	3,177	3,195	3,180	3,198
Bayard	3,195	3,987	3,198	4,011
Speechley	3,987	4,283	4,011	4,315
Balltown	4,283	4,763	4,315	4,810
Bradford	4,763	5,199	4,810	5,260
Benson	5,199	5,454	5,260	5,524
Alexander	5,454	6,486	5,524	6,593
Sycamore	6,486	6,651	6,593	6,776
Middlesex	6,651	6,784	6,776	6,960
Burkett	6,784	6,814	6,960	7,014
Tully	6,814	6,864	7,014	7,125
Marcellus	6,864	NA	7,125	NA

*Please note Antero determines formation tops based on mud logs that are only available 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:	11/22/2017
Job End Date:	1/31/2018
State:	West Virginia
County:	Doddridge
API Number:	47-017-06697-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Walker 2H
Latitude:	39.34870556
Longitude:	-80.76955556
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,023
Total Base Water Volume (gal):	21,181,446
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
Water	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	87.88105	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica quartz	14808-60-7	100.00000	11.88554	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.10143	
			Hydrogen Chloride	7647-01-0	17.50000	0.02358	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.02892	
			Petroleum Distillates	64742-47-8	60.00000	0.02739	
			Suspending agent (solid)	14808-60-7	3.00000	0.00442	
			Surfactant	68439-51-0	3.00000	0.00174	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.01604	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01291	

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SI-1200	U.S. Well Services, LLC	Scale Inhibitor					
			Ethylene Glycol	107-21-1	40.00000	0.00734	
			Proprietary Scale Inhibitor	Proprietary	10.00000	0.00196	
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitriopropionamide	10222-01-2	20.00000	0.00426	
			Deionized Water	7732-18-5	28.00000	0.00243	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00090	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00004	
			Cinnamaldehyde	104-55-2	20.00000	0.00001	
			Formic acid	64-18-6	20.00000	0.00001	
			Butyl cellosolve	111-76-2	20.00000	0.00001	
			Polyether	60828-78-6	10.00000	0.00001	
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00000	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

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

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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2,866' to Bottom Hole

5,677' to Top Hole
TOP HOLE LATITUDE 39 - 22 - 30
BOTTOM HOLE LATITUDE 39 - 20 - 00 - 00

LONGITUDE 80 - 45 - 00

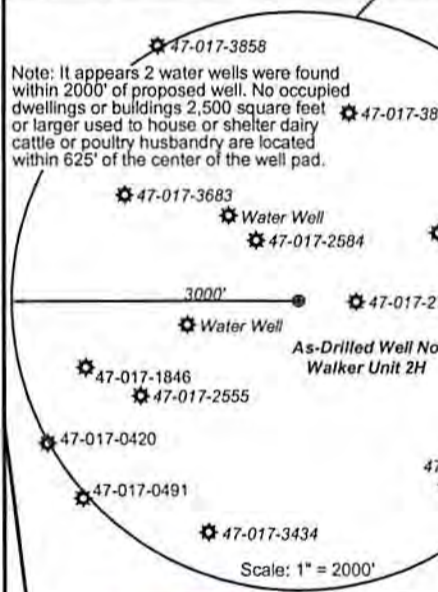
3,682' to Bottom Hole

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

- Legend**
- Proposed gas well
 - Found corner, as noted
 - Existing Well, as noted
 - Creek or Drain
 - Existing Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Walker Unit 2H Top Hole coordinates are
 N: 311,624.82' Latitude: 39°20'55.06"
 E: 1,640,967.55' Longitude: 80°46'10.57"
 Bottom Hole coordinates are
 N: 302,294.65' Latitude: 39°19'23.21"
 E: 1,643,567.23' Longitude: 80°45'35.81"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,355,500.00m N: 4,352,670.773m
 E: 519,867.200m E: 520,706.611m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

ID	TM/Par	Owner	Bk / Pg	Acres
1	2/16	David & Lucy Mae Sparling	219/213	20.95
2	4/4.2	David & Lucy Mae Sparling	219/213	10.69
3	4/4	David & Lucy Mae Sparling	219/213	20.75
4	4/4.1	David & Lucy Mae Sparling	219/213	31.50
5	4/2	Scott Adams, Gregory Adams, David Adams, & Jennifer Adams McFall	282/181	0.90
6	4/11	Gary Lynn McMillan	195/237	7.19
7	4/19	Naomi Beagle, et al	AP19/594	33.25
8	4/20	Stella E. Spencer, et al	103/53	31.50
9	4/34.1	Larry Williams	260/226	0.53
10	8/1.1	Benjamin & Myrna Adams	169/160	5.08
11	8/15.1	Scott B. & Melissa L. Chumley	261/359	0.72
12	8/15	Robert Glenn & Shelly A. Fraley	239/262	26.53
13	8/7	Steven & Lu Ann McCloy	303/629	12.50
14	8/1.2	Richard Gregory Knight, et ux	179/275	1.331



Top Hole Coordinates and 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
 Bradley D. Miller, P.S. 2167



FILE NO: 39-30-WU-14
 DRAWING NO: 39-14 Walker 2H Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: May 10 20 18
 OPERATOR'S WELL NO. Walker Unit 2H
 API WELL NO
 47 - 017 - 06697
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1229' As Drilled WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union COUNTY: Doddridge 07/20/2018

SURFACE OWNER: Yvonne Foster Janice Cowan (AKA) Janice Cowman; Freeman Paul Smith, et ux, et al ACREAGE: 125.48 428.58
 Ed Broome Inc, Memorandum of Oil & Gas Lease; Theda Dolores Price Davis, Heir of Esta Faye Price, OGL 63.087; 428.51
 ROYALTY OWNER: Ed Broome Inc, Memorandum of Oil & Gas Lease; Clyde F. Smith, et al; Silas Spencer, et ux LEASE NO: 20234 ACREAGE: 72; 60; 33.25; 96 20.75; 40; 125
 Joseph Freeman, et ux; Paul Spencer; Elma Lipscomb, et vic; Larry Williams

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: 7,022' TVD 16,564' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313

WELL OPERATOR: Antero Resources Corporation
 ADDRESS: 1615 Wynkoop
 DENVER, CO 80202

DESIGNATED AGENT: Diana Stamper - CT Corporation System
 ADDRESS: 5400 D Big Tyler Road
 CHARLESTON, WV 25313

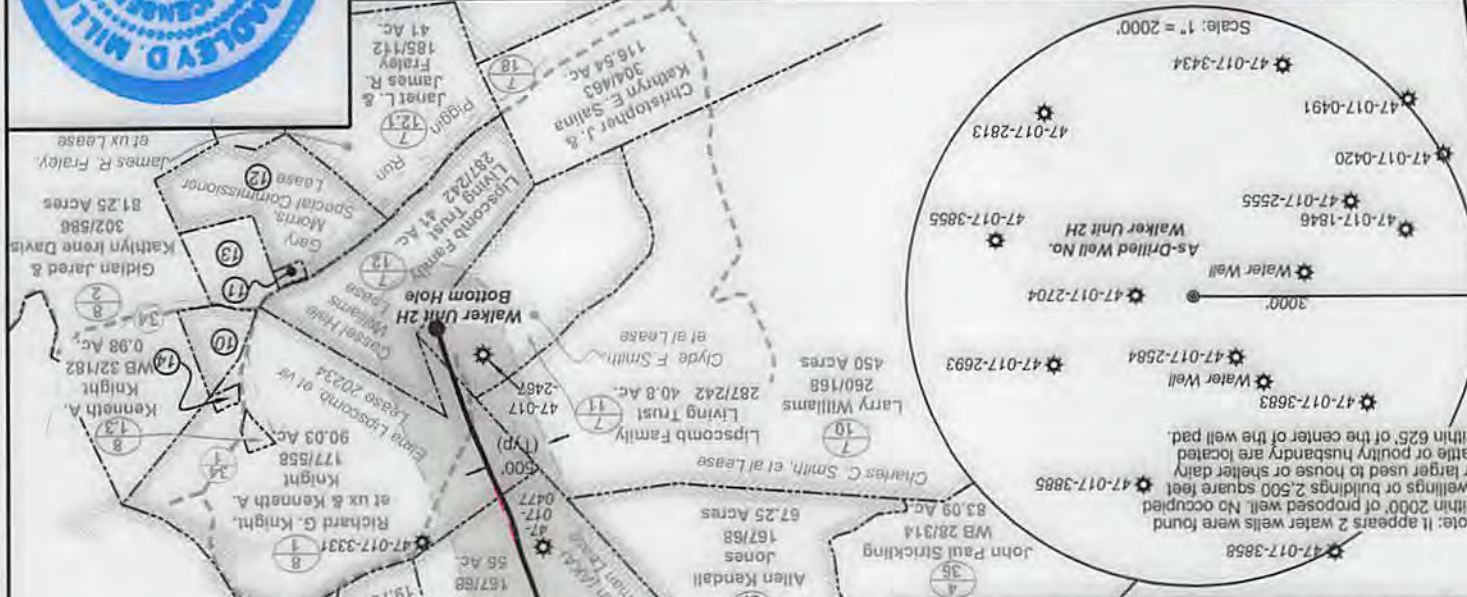
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1229' As Drilled WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union
 SURFACE OWNER: Yvonne Foster
 Ed Broome Inc, Memorandum of Oil & Gas Lease; Clyde F. Smith, et al; Slass Spencer, et ux; Joseph Freeman, et ux; Paul Spencer, Ethel Lipscomb, et ux; Larry Williams
 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: 7,022' TVD

FILE NO: 39-30-WU-14
 DRAWING NO: 39-14 Walker 2H Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV
 STATE 47 COUNTY 017 PERMIT 06697
 DATE: May 10 20 OPERATORS WELL NO. Walker Unit 2H
 API WELL NO

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



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



ID	TM/Par	Owner	BK/Pg	Acre
1	2/16	David & Lucy Mae Spurling	219/213	20.96
2	4/4	David & Lucy Mae Spurling	219/213	10.69
3	4/4	David & Lucy Mae Spurling	219/213	10.69
4	4/4	David & Lucy Mae Spurling	219/213	10.69
5	4/2	Scott Adams, Gregory Adams, David Adams, & Jennifer Adams McFall	282/181	0.90
6	4/11	Gary Lynn McMillan	195/237	7.19
7	4/19	Naomi Beagle, et al	AP19/594	33.25
8	4/20	Stella E. Spencer, et al	103/53	31.50
9	4/34	Larry Williams	260/226	0.53
10	8/11	Benjamin & Myrna Adams	169/160	5.08
11	8/15	Scott B. & Melissa L. Chumley	261/359	0.72
12	8/15	Robert Glenn & Shelly A. Faley	239/262	26.63
13	8/7	Steven & Lu Ann McCoy	303/629	12.50
14	8/12	Richard Gregory Knight, et ux	179/275	1.331

Well No.	Top Hole Latitude	Bottom Hole Latitude	Longitude	Distance
L1	S 32°44' E	788.9'	80 - 45 - 00	
L2	S 87°21' W	618.0'	20 - 00 - 30	
L3	N 68°12' W	2148.5'	39 - 22 - 30	
L4	N 37°18' W	2723.1'	56 - 45 - 00	

West Virginia Coordinate System of 1927, North Zone
 based upon Differential GPS Measurements.
 Well No. Walker Unit 2H Top Hole coordinates are
 N: 311,624.82' Latitude: 39°20'55.06"
 E: 1,640,967.55' Longitude: 80°46'10.57"
 Bottom Hole coordinates are
 N: 302,294.65' Latitude: 39°19'23.21"
 E: 1,643,567.23' Longitude: 80°45'35.81"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,355,500.00mm N: 4,352,670.773m
 E: 519,867.200mm E: 520,706.611m
 Plat orientation and corner and well references
 are based upon the grid north meridian.
 Well location references are based upon the magnetic
 meridian.

Antero Resources Corporation
 Antero Resources Corporation
 Legend
 Proposed gas well
 Found corner, as noted
 Existing Well, as noted
 Creek or Drain
 Existing Road
 Surface boundary (approx.)
 20' x 20' grid (approx.)
 07/20/2018