

WR-35
Rev (9-11)

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

DATE: 9/30/2013
API #: 47-033-05688

Farm name: Washbourne, Richard B. Operator Well No.: Everett Unit 1H

LOCATION: Elevation: 1292' Quadrangle: Big Isaac

District: Union County: Harrison
Latitude: 4,924' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 8,782' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Antero Resources Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1625 17th Street Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13 3/8" 48#	568'	568'	789 Cu. Ft. Class A
Inspector: Sam Ward	9 5/8" 36#	2,631'	2,631'	1071 Cu. Ft. Class A
Date Permit Issued: 12/13/2012	5 1/2" 20#	15,094'	15,094'	3703 Cu. Ft. Class H
Date Well Work Commenced: 3/15/2013				
Date Well Work Completed: 8/9/2013	2 3/8" 5.95#	7,407'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7264' TVD (Deepest Point Drilled)				
Total Measured Depth (ft): 15,094' MD, 7202' (BHL)				
Fresh Water Depth (ft.): 145'				
Salt Water Depth (ft.): 809'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 184', 420', 467'				
Void(s) encountered (N/Y) Depth(s) None				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7211' (TOP)

Gas: Initial open flow ---- MCF/d Oil: Initial open flow ---- Bbl/d

Final open flow 6,166 MCF/d Final open flow ---- Bbl/d

Time of open flow between initial and final tests ---- Hours

Static rock Pressure 3600 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Kaitlin Buck
Signature

12/23/2013
Date

04/04/2014

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Were core samples taken? Yes _____ No **X**

Were cuttings caught during drilling? Yes _____ No **X**

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list **Yes- CBL**

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Mirth Unit 1H API#47-033-05693). Please reference the wireline logs submitted with Form WR-35 for Mirth Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,457'- 15,042' (1,800' Holes)

Frac'd w/ 16,116 gals 15% HCL Acid 225,059 bbls Slick Water carrying 1,091,710# 100 mesh, 4,665,635# 40/70 sand and 2,787,195# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): **N/A**

Formations Encountered:	Top Depth	Bottom Depth
Surface:		
Big Lime	1939'	2026'
Big Injun	2027'	2290'
Gantz Sand	2291'	2401'
Fifty Foot Sandstone	2402'	2499'
Gordon	2500'	2797'
Fifth Sandstone	2798'	2840'
Bayard	2841'	3498'
Speechley	3499'	3768'
Balltown	3769'	4285'
Bradford	4286'	4817'
Benson	4818'	5012'
Alexander	5013'	5172'
Elk	5173'	5827'
Rhinestreet	5828'	6497'
Sycamore	6498'	6854'
Middlesex	6855'	7030'
Tully	7031'	7150'
Hamilton	7151'	7210'
Marcellus	7211'	7264' TVD

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/2/2013
Job End Date:	8/9/2013
State:	West Virginia
County:	Harrison
API Number:	47-033-05688-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Everett Unit 1H
Longitude:	-80.51181110
Latitude:	39.18913060
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	7,263
Total Base Water Volume (gal):	9,452,478
Total Base Non Water Volume:	298,471



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	Base Fluid					
			Water	7732-18-5	100.00000	92.81869	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	6.91428	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.06917	
			Hydrogen Chloride	7641-01-1	18.00000	0.01652	
LGC-15	U.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.03960	
			Petroleum Distillates	64742-47-8	60.00000	0.03750	
			Suspending agent (solid)	14808-60-7	3.00000	0.00606	
			Surfactant	68439-51-0	3.00000	0.00238	
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	40.00000	0.02450	
			Anionic Polyacrylamide	Proprietary	40.00000	0.02450	
			Petroleum Distillates	64742-47-8	40.00000	0.01972	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00306	

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			Crystalline Salt	12125-02-9	5.00000	0.00306
SI-1000	U.S. Well Services, LLC	Scale Inhibitor				
			Anionic Copolymer	Proprietary		0.00446
			Ethylene Glycol	107-21-1	20.00000	0.00403
			Water	7732-18-5	30.00000	0.00336
K-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00473
			Deionized Water	7732-18-5	28.00000	0.00270
AP One	U.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00126
AI-300	U.S. Well Services, LLC	Acid Corrosion Inhibitor				
			Ethylene Glycol	107-21-1	40.00000	0.00018
			N,N-Dimethylformamide	68-12-2	20.00000	0.00006
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	15.00000	0.00005
			Cinnamaldehyde	104-55-2	15.00000	0.00005
			2-Butoxyethanol	111-76-2	15.00000	0.00004
			Poly(oxy-1,2-ethanediyl), alpha-(4-nolylphenyl)-omega-hydroxy, branched	127087-87-0	5.00000	0.00002
			1-Octanol	111-87-5	3.00000	0.00001
			Isopropyl Alcohol	67-63-0	2.50000	0.00001
			1-Decanol	112-30-1	5.00000	0.00001

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)