

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: 12/7/2013
API #: 47-017-06187

Farm name: Davis, Jonathan Operator Well No.: Dotson Unit 1H

LOCATION: Elevation: 1,146' Quadrangle: West Union 7.5'

District: Central County: Doddridge
Latitude: 10,566' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude: 12,386' Feet West of 80 Deg. 47 Min. 30 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#	67'	67'	64 Cu Ft. Class A
'Agent: CT Corporation System	13 3/8" 48#	460'	460'	639 Cu Ft. Class A
Inspector: Douglas Newlon	9 5/8" 36#	2,622'	2,622'	1068 Cu Ft. Class A
Date Permit Issued: 2/22/2013	5 1/2" 20#	13,521'	13,521'	3273 Cu Ft. Class H
Date Well Work Commenced: 3/5/2013				
Date Well Work Completed: 7/9/2013	2 3/8" 4.7#	6879'		
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): 6813' TVD				
Total Measured Depth (ft): 13,521' MD				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 700'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 824'				
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) 6661' (TOP)
Gas: Initial open flow --- MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 6,730 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 Date 2/10/2014

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Were core samples taken? Yes _____ No

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Were core samples taken during drilling? Yes No _____

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 (Valentine Unit 1H AP# 47-017-06083). Please reference the wireline logs submitted with Form WR-35 for Valentine 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: 6,910'-13,466' (2,460 Holes)

Frac'd w/ 21,168 gals 15% HCL Acid, 188,084 bbls Slick Water carrying 472,060# 100 mesh, 3,425,656# 40/70 sand and 2,292,160# 20/40 sand.

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

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth _____
Surface: _____

Big Lime	est. 2066'	2176'
Big Injun	est. 2177'	2574'
Gantz Sand	est. 2575'	2717'
Fifty Foot Sandstone	est. 2718'	2808'
Gordon	est. 2809'	3122'
Fifth Sandstone	est. 3123'	3147'
Bayard	est. 3148'	3911'
Speechley	est. 3912'	4176'
Baltown	est. 4177'	4632'
Bradford	est. 4633'	5063'
Benson	est. 5064'	5324'
Alexander	est. 5325'	5507'
Elk	est. 5508'	5998'
Rhinestreet	est. 5999'	6300'
Sycamore	6301'	6470'
Middlesex	6471'	6592'
Burkett	6593'	6622'
Tully	6623'	6651'
Hamilton	6652'	6660'
Marcellus	6661'	6813' TVD

Hydraulic Fracturing Fluid Product Component Information Disclosure

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Hydraulic Fracturing Fluid Composition:

Component	Supplier	Product Name	Chemical Name	Product ID	Concentration (%)	Concentration (ppm)	Other
Water	Antero Resources	Base Fluid	Water	7732-18-5	100.00000	91.13810	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	8.56278	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.10674	
			Hydrogen Chloride	7641-01-1	18.00000	0.02550	
IGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.03419	
			Petroleum Distillates	84742-47-8	60.00000	0.03238	
			Suspending agent (solid)	14808-60-7	3.00000	0.00523	
			Surfactant	88439-51-0	3.00000	0.00205	
WFR-405	U.S. Well Services, LLC	Friction Reducer	Anionic Polyacrylamide	Proprietary	40.00000	0.02366	
			Water	7732-18-5	40.00000	0.02366	
			Petroleum Distillates	84742-47-8	40.00000	0.01905	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00286	

K-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent	Crystalline Salt	12125-02-9	5.00000	0.00296
			2,2-dibromo-3-nitropropanamide	10222-01-2	20.00000	0.00705
SI-1000	U.S. Well Services, LLC	Scale Inhibitor	Deionized Water	7732-18-5	28.00000	0.00403
			Anionic Copolymer	Proprietary		0.00318
			Ethylene Glycol	107-21-1	20.00000	0.00287
			Water	7732-18-5	30.00000	0.00239
AL-300	U.S. Well Services, LLC	Acid Corrosion Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00028
			N,N-Dimethylformamide	89-12-2	20.00000	0.00009
			Cinnamalehyde	104-55-2	15.00000	0.00008
			Tar bases, quinoline deriva, benzyl chloride-quaternized	72480-70-7	15.00000	0.00007
			2-Butoxyethanol	111-76-2	15.00000	0.00007
			Poly(oxy-1,2-ethanedyl), alpha-(4-nolylphenyl)-omega-hydroxy, branched	127087-87-0	5.00000	0.00003
			1-Decanol	112-30-1	5.00000	0.00002
			1-Octanol	111-87-5	3.00000	0.00001
			sopropyl Alcohol	87-63-0	2.50000	0.00001
AP One	U.S. Well Services, LLC	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00000	0.00058

Ingoted ents shown have are subject to 29 CFR 1910.1200 and appear on U.S. OSHA Safety Data Sheets (SDS). Ingredients shown here are from SDS.

* 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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