

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

Farm name: Ash, Allen L. & Janet S. Operator Well No.: Webb Unit 2H

LOCATION: Elevation: 921' Quadrangle: Salem 7.5'

District: McClellan County: Doddridge  
Latitude: 4,826 Feet South of 39 Deg. 22 Min. 30 Sec.  
Longitude 2,374 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

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" 54.5#	531'	531'	738 Cu. Ft. Class A
Inspector: <b>Sam Ward</b>	9-5/8" 36#	2796'	2796'	1138 Cu. Ft. Class A
Date Permit Issued: 2/6/2012	5-1/2" 20#	13033'	13033'	3126 Cu. Ft. Class H
Date Well Work Commenced: 3/21/2012				
Date Well Work Completed: 9/18/2012	2-3/8" 4.7#	7131'		
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): 7,103' TVD				
Total Measured Depth (ft): 13,033' MD, 7,036' TVD (BHL)				
Fresh Water Depth (ft.): 40', 192'				
Salt Water Depth (ft.): 545', 1644', 1692'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 181', 244', 311', 434', 624', 684', 711'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

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

Producing formation Marcellus Pay zone depth (ft) 7,088' TVD (Top)  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 8,901 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 3800 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

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.

Krista B. Anselmi  
Signature

11/20/12  
Date

Were core samples taken? Yes \_\_\_\_\_ No

Were cuttings caught 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-pad (Webb Unit 1H API# 47-017-06044). Please reference wireline logs submitted with Form WR-35 for Webb 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: 7485'-12,968' MD (1128 holes)

Frac'd w/ 8,500 gals 15% HCL Acid, 121,094 bbls Slick Water carrying 620,700# 100 mesh, 2,286,100# 40/70 and 1,430,800# 20/40 sand.

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

Formations Encountered: <u>Surface:</u>	Top Depth	/	Bottom Depth
Gordon	2,665'		3,013'
Fifth Sandstone	3,014'		3,074'
Bayard	3,075'		3,584'
Speechley	3,585'		3,903'
Balltown	3,904'		4,438'
Bradford	4,439'		4,997'
Benson	4,998'		5,238'
Alexander	5,239'		5,474'
Elk	5,475'		6,085'
Rhinestreet	6,086'		6,538'
Sycamore	6,539'		6,777'
Middlesex	6,778'		6,880'
Genundewa	6,881'		6,932'
Burket	6,933'		6,957'
Tully	6,958'		7,087'
Marcellus	7,088'		7103' TVD

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WV DEP. OF ENVIRONMENT & NATURAL RESOURCES

WELL NAME: Webb Unit 2H

API #: 47-017-06045

**Antero Resources Appalachian Corporation**

**Addendum to Form WR-35 - List of Additives Actually Used for  
Fracturing Or Stimulating Well**

ADDITIVES	CHEMICAL ABSTRACT SERVICE NUMBER (CAS #)
AI-2	Mixture
Ethylene Glycol Monobutyl Ether (2-Butoxyethanol)	111-76-2
Propargyl Alcohol	107-19-7
Isopropanol (Isopropyl Alcohol)	67-63-0
Proprietary Blend	Proprietary
EB-4L (Ethylene Glycol)	107-21-1
Hydrochloric Acid	7647-01-0
KR-153-SL	Unknown/Unavailable
LSG-100	Unknown/Unavailable
OB-2	Unknown/Unavailable
PH-15L	Unknown/Unavailable
Super TSC LT	Unknown/Unavailable
WFR-3B	Mixture
Petroleum distillate hydrotreated	64742-47-8
Mineral Spirits	8052-41-3
Propylene Glycol	57-55-6
Ethoxylated Alcohols	68551-12-2