

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: 11/19/2012  
API #: 47-017-06044

Farm name: Ash, Allen L. & Janet S. Operator Well No.: Webb Unit 1H

LOCATION: Elevation: 921' Quadrangle: Salem 7.5'

District: McClellan County: Doddridge  
Latitude: 4,846 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<br>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#      | 2744'            | 2744'        | 1117 Cu. Ft. Class A   |
| Date Permit Issued: 1/25/2012  | 5-1/2" 20#      | 12,615'          | 12,615'      | 3027 Cu. Ft. Class H   |
| Date Well Work Commenced: 3/12/2012  |                 | Depth Set @      |              |                        |
| Date Well Work Completed: 9/14/2012  | Cement Plug     | 6325'            |              | 200 Cu. Ft. Class A    |
| Verbal Plugging: N/A   |                 |                  |              |                        |
| Date Permission granted on: N/A  | 2-3/8" 4.7#     | 7241'            |              |                        |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> |                 |                  |              |                        |
| Total Vertical Depth (ft): 7,108' TVD  |                 |                  |              |                        |
| Total Measured Depth (ft): 12,615' MD, 7,041' TVD (BHL)  |                 |                  |              |                        |
| Fresh Water Depth (ft.): 181', 210', 244'  |                 |                  |              |                        |
| Salt Water Depth (ft.): 1,653'   |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? No  |                 |                  |              |                        |
| Coal Depths (ft.): 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) 7,080' TVD (Top)

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

Final open flow 6,196 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.

Lisa B. Finelli  
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, Dual Laterolog/Gamma Ray, and Photo Density/Compensated Neutron/Gamma Ray,

**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: 7347'-12,550' MD (1200 holes)

Frac'd w/ 9,500 gals 15% HCL Acid, 111,938 bbls Slick Water carrying 529,100# 100 mesh,

2,165,000# 40/70 and 1,251,700# 20/40 sand.

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

| <u>Formations Encountered:</u> | <u>Top Depth</u> | <u>Bottom Depth</u> |
|--------------------------------|------------------|---------------------|
| <u>Surface:</u>                |                  |                     |
| Gordon                         | 2,667'           | 3,014'              |
| Fifth Sandstone                | 3,015'           | 3,066'              |
| Bayard                         | 3,067'           | 3,591'              |
| Speechley                      | 3,592'           | 3,897'              |
| Balltown                       | 3,898'           | 4,438'              |
| Bradford                       | 4,439'           | 4,997'              |
| Benson                         | 4,998'           | 5,244'              |
| Alexander                      | 5,245'           | 5,475'              |
| Elk                            | 5,476'           | 6,081'              |
| Rhinestreet                    | 6,082'           | 6,535'              |
| Sycamore                       | 6,536'           | 6,767'              |
| Middlesex                      | 6,768'           | 6,877'              |
| Genundewa                      | 6,878'           | 6,925'              |
| Burket                         | 6,926'           | 6,951'              |
| Tully                          | 6,952'           | 7,079'              |
| Marcellus                      | 7,080'           | 7,108' TVD          |

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WISCONSIN DEPARTMENT OF  
NATURAL RESOURCES

WELL NAME: Webb Unit 1H

API #: 47-017-06044

**Antero Resources Appalachian Corporation**

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

| ADDITIVES  | CHEMICAL ABSTRACT SERVICE<br>NUMBER (CAS #) |
|--|---|
| AI-2   | Mixture                                     |
| Ethylene Glycol Monobutyl Ether<br>(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                                  |
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