

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

DATE: 4/2/13  
API #: 47-033-05637

Farm name: Bowyer, Matthew E. & Lisa Operator Well No.: Dawson Unit 1H

**RECEIVED**

LOCATION: Elevation: 1,290' Quadrangle: West Milford

APR 22 2013

District: Union County: Harrison  
Latitude: 8,929' Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 2,364' Feet West of 80 Deg. 27 Min. 30 Sec.

WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

Company: Antero Resources Appalachian Corp

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>1625 17th Street</u> <u>Denver, CO 80202</u>	<u>20" 94#</u>	<u>40'</u>	<u>40'</u>	<u>38 Cu. Ft. Class A</u>
Agent: <u>CT Corporation System</u>	<u>13-3/8" 48#</u>	<u>375'</u>	<u>375'</u>	<u>521 Cu. Ft. Class A</u>
Inspector: <u>Tristan Jenkins</u>	<u>9-5/8" 36#</u>	<u>2,518'</u>	<u>2,518'</u>	<u>1025 Cu. Ft. Class A</u>
Date Permit Issued: <u>6/28/2012</u>	<u>5-1/2" 20#</u>	<u>17,200'</u>	<u>17,200'</u>	<u>4320 Cu. Ft. Class H</u>
Date Well Work Commenced: <u>9/29/2012</u>				
Date Well Work Completed: <u>1/21/2013</u>	<u>2-3/8" 4.7#</u>	<u>7,150'</u>		
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7099' TVD (deepest point drilled)</u>				
Total Measured Depth (ft): <u>17,200' MD, 7047' TVD (BHL)</u>				
Fresh Water Depth (ft.): <u>180'</u>				
Salt Water Depth (ft.): <u>None Available</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>18', 178', 258', 298'</u>				
Void(s) encountered (N/Y) Depth(s) <u>N, N/A</u>				

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

Producing formation Marcellus Pay zone depth (ft) 7,063' TVD (Top)

Gas: Initial open flow ----- MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 8,076 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests N/A 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

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.

Kate Ki  
Signature

4/19/13  
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-well pad (Winnie Unit 2H API#47-033-05615). Please reference the wireline logs submitted with Form WR-35 for Winnie Unit 2H.

**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: 7,225' - 17,134' MD (2,088 holes)

Frac'd w/ 15,120 gals 15% HCL Acid, 209,022 bbls Slick Water carrying 1,023,180# 100 mesh, 4,004,673# 40/70 sand and 2,447,890# 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>		
Big Lime	est 1748'	1856'
Big Injun	est 1857'	2107'
Gantz Sand	est 2108'	2223'
Fifty Foot Sandstone	est 2224'	2329'
Gordon	est 2330'	2564'
Fifth Sandstone	est 2565'	2627'
Bayard	est 2628'	3311'
Speechley	est 3312'	3557'
Balltown	est 3558'	4082'
Bradford	est 4083'	4708'
Benson	est 4709'	4923'
Alexander	est 4924'	5064'
Elk	est 5065'	5627'
Rhinestreet	est 5628'	6448'
Sycamore	est 6449'	6688'
Middlesex	6689'	6855'
Burket	6856'	6880'
Tully	6881'	6995'
Hamilton	6996'	7062'
Marcellus	7063'	7099' TVD