

# RECEIVED

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Rev (8-10)

AUG 19 2011

State of West Virginia  
Department of Environmental Protection  
Office of Oil and GasDATE: 6/15/2011  
API #: 47-033-05440-00WV GEOLOGICAL SURVEY Well Operator's Report of Well Work  
MORGANTOWN, WVFarm name: Herbert G. Mathews Operator Well No.: Boguess Unit 1HLOCATION: Elevation: 1176' Quadrangle: Wolf SummitDistrict: Coal County: Harrison  
Latitude: 5465' Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude 7689' Feet West of 80 Deg. 22 Min. 30 Sec.Company: Antero Resources Appalachian Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1625 17th Street Denver, CO 80202	20" 107#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 68#	534'	534'	742 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 40#	2527'	2527'	1029 Cu. Ft. Class A
Date Permit Issued: 7/09/2010	5-1/2" 20#	14,193'	14,193'	3487 Cu. Ft. Class H
Date Well Work Commenced: 9/09/2010				
Date Well Work Completed: 3/29/2011	2-3/8" 4.7#	6984'		
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): 7020' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,198' MD, 7005' TVD (BHL)				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) NO				

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

Producing formation Marcellus Pay zone depth (ft) 6958' TVD (Top)Gas: Initial open flow      MCF/d Oil: Initial open flow      Bbl/dFinal open flow      MCF/d Final open flow      Bbl/dTime of open flow between initial and final tests      HoursStatic rock Pressure      psig (surface pressure) after      HoursSecond producing formation      Pay zone depth (ft)     Gas: Initial open flow      MCF/d Oil: Initial open flow      Bbl/dFinal open flow      MCF/d Final open flow      Bbl/dTime of open flow between initial and final tests      HoursStatic 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.

  
Signature6-15-11  
Date

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

Were cuttings caught during drilling? Yes X No \_\_\_\_\_

Were  $\frac{N}{Y/N}$  Electrical,  $\frac{Y}{Y/N}$  Mechanical,  $\frac{N}{Y/N}$  or Geophysical logs recorded on this well?

**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: 7337' – 14,130' MD (1164 holes)

Frac'd w/5,000 gals 15% HCL Acid, 134,701 bbls Slick Water carrying 668,600# 100 mesh, 2,931,900# 40/70 and 1,852,400# 20/40 sand.

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
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<u>Surface:</u>		
Burkett	6707'	
Tully	6733'	
Hamilton	6967'	
Marcellus	6958' TVD	