

WR-35  
Rev (9-11)State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well WorkDATE: 4/30/2012  
API #: 47-033-05570

Farm name: Flanigan, Robert A. &amp; Ruth Ann

Operator Well No.: Harbert Unit 1H

**RECEIVED**

LOCATION: Elevation: 1161'

Quadrangle: Wolf Summit

JUN 12 2012

District: Eagle County: Harrison  
Latitude: 5,760 Feet South of <sup>39</sup> Deg. <sub>22</sub> Min. <sub>30</sub> Sec.  
Longitude <sub>10,719</sub> Feet West of <sub>80</sub> Deg. <sub>22</sub> Min. <sub>30</sub> 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.
1625 17th Street Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 54.5#	450'	450'	625 Cu. Ft. Class A
Inspector: Tristan Jenkins	9 5/8" 36#	2636'	2636'	1073 Cu. Ft. Class A
Date Permit Issued: 08/30/2011	5 1/2" 20#	14,295'	14,295'	3493 Cu. Ft. Class H
Date Well Work Commenced: 11/17/2011				
Date Well Work Completed: 2/15/2012	2-3/8" 4.7#	7,213'		
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): 7,056' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,295 MD, 6,998' TVD (BHL)				
Fresh Water Depth (ft.): *None available	*Due to air drilling, Antero was unable to			
Salt Water Depth (ft.): 800'	identify accurate fresh water and/or coal			
Is coal being mined in area (N/Y)? No	depths for reporting.			
Coal Depths (ft.): *None available				
Void(s) encountered (N/Y) Depth(s) N, 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) 7,013' TVD (Top)Gas: Initial open flow ----- MCF/d Oil: Initial open flow N/A Bbl/dFinal open flow 9,437 MCF/d Final open flow N/A Bbl/dTime of open flow between initial and final tests N/A HoursStatic rock Pressure 3300 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.

Ashley Michaluk  
Signature

4-30-12  
Date

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - Cement Bond Log/Gamma Ray/CCL Log, Compensated Neutron/Photo Density/Dual Laterolog, Gamma Ray/Array Induction/Temperature.

**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: 7,284'-14,227' MD

Frac'd w/ 11,000 gals 15% HCL Acid, 167,110 bbls Slick Water carrying 770,300# 100 mesh, 3,629,800# 40/70 and 2,420,600# 20/40 sand.

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

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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Benson	4578'		4881'
Alexander	4882'		5081'
Elk	5082'		6342'
Sycamore	6343'		6799'
Tully	6800'		6929'
Hamilton	6930'		7012'
Marcellus	7013'		7056' TVD