

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 #: 47-033-05571

Farm name: Flanigan, Robert A. &amp; Ruth Ann Operator Well No.: Harbert Unit 2H

LOCATION: Elevation: 1161' Quadrangle: Wolf Summit

District: Eagle County: Harrison  
Latitude: 5,766 Feet South of 39 Deg. 22 Min. 30 Sec.  
Longitude 10,710 Feet West of 80 Deg. 22 Min. 30 Sec.

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JUN 12 2012

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#	455'	455'	632 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2622'	2622'	1071 Cu. Ft. Class A
Date Permit Issued: 8/30/2011	5-1/2" 20#	14,286'	14,286'	3493 Cu. Ft. Class H
Date Well Work Commenced: 11/15/2011				
Date Well Work Completed: 3/18/2012	2-3/8" 4.7#	7168'		
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): 7,067' TVD (Deepest point drilled)				
Total Measured Depth (ft): 14,286 MD, 7,010 TVD (BHL)				
Fresh Water Depth (ft.): *None available				
Salt Water Depth (ft.): *None available				
Is coal being mined in area (N/Y)? No				
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) 7,019' TVD (Top)Gas: Initial open flow ----- MCF/d Oil: Initial open flow N/A Bbl/dFinal open flow 13,524 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 ----- 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.

  
Signature

4-30-12  
Date

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - Cement Bond Log/Gamma Ray/CCL Log

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Harbert Unit 1H API# 47-033-05570). Please reference wireline logs submitted with Form WR-35 for Harbert 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: 7,196'- 14,221' MD

Frac'd w/ 10,500 gals 15% HCL Acid, 164,875 bbls Slick Water carrying 754,500# 100 mesh, 3,448,200# 40/70 and 2,257,500# 20/40 sand.

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

Formations Encountered: Surface:	Top Depth	Bottom Depth
**Sycamore	6354'	6807'
Tully	6808'	6936'
Hamilton	6937'	7018'
Marcellus	7019'	7067' TVD

\*\*Antero only runs wireline logs on the first well on a multi-well pad (Harbert Unit 1H). Since this is a subsequent well, our logging started at the top of the Sycamore.

Therefore, we are unable to accurately identify formation tops from surface. Please reference the additional formation tops submitted on Form WR-35 for the Harbert Unit 1H (API# 47-033-05570).