

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: 10/28/2010  
API #: 47-033-05382  
UPDATED: 4/20/12

Farm name: Carnes, Richard & Patricia Operator Well No.: Ash Unit 2H

LOCATION: Elevation: 1183' Quadrangle: Wolf Summit

District: Sardis County: Harrison  
Latitude: 8610' Feet South of 39 Deg. 22 Min. 30 Sec.  
Longitude: 17780' Feet West of 80 Deg. 22 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 Denver, CO 80202	20" 72#	40'	40'	38 Cu. Ft. Grout
Agent: CT Corporation System	13-3/8" 48#	937'	937'	1302 Cu. Ft. Class C
Inspector: <b>Tristan Jenkins</b>	9-5/8" 36#	2434'	2434'	991 Cu. Ft. Class C
Date Permit Issued: 3/10/2010	5-1/2" 20#	13522'	13522'	3303 Cu. Ft. Class H
Date Well Work Commenced: 3/11/2010		Depth - Top	Bottom	
Date Well Work Completed: 8/19/2010	Sidetrack Plug	2920'	3300'	340 Cu. Ft. Class H
Verbal Plugging: N/A	Sidetrack Plug	5200'	5500'	340 Cu. Ft. Class A
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>	2-3/8" 4.7#	7164'		
Total Vertical Depth (ft): 7167' TVD (deepest point drilled)				
Total Measured Depth (ft): 13522' MD, 7167' 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) 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) 7011' TVD (Top)

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

Final open flow 5283 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static 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.

*Tristan Jenkins*  
Signature

4-20-12  
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 - 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 (Marsh Unit 3H API# 47-033-05376). Please reference wireline logs submitted with Form WR-35 for Marsh Unit 3H.

**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: 7184' - 13454' MD (1308 holes)

Frac'd w/ 5,096 gals 15% HCL Acid, 129,948 bbls Slick Water carrying 572,581# 100 mesh, 2,726,859# 40/70 and 1,690,060# 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>		
**Tully	6792'	6920'
Hamilton	6921'	7010'
Marcellus	7011'	7167' TVD

\*\*Antero only runs wireline logs on the first well on a multi-well pad (Marsh Unit 3H). Since this is a subsequent well, our logging started at the top of the Tully.

Therefore, we are unable to accurately identify formation tops from surface. Please reference the additional formation tops submitted on Form WR-35 for the Marsh Unit 3H (API# 47-033-05376).