

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: 1/27/2011

API #: 47-033-05417

UPDATED: 4/20/12

Farm name: Carnes, Richard & PatriciaOperator Well No.: Marsh Unit 3HRLOCATION: Elevation: 1183'Quadrangle: Wolf SummitDistrict: SardisCounty: HarrisonLatitude: 8443' Feet South of 39 Deg. 20 Min. 00 Sec.Longitude 2577 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" 94#	40'	40'	59 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	949'	949'	1308 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2539'	2539'	891 Cu. Ft. Class A
Date Permit Issued: 5/7/2010	5-1/2" 20#	12358'	12358'	2987 Cu. Ft. Class H
Date Well Work Commenced: 6/2/2010		Depth - Top	Bottom	
Date Well Work Completed: 8/18/2010	Cement Plug	2380'	2539'	59 Cu. Ft. Class A
Verbal Plugging: N/A	Cement Plug	2539'	2543'	74 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#	7183'		
Total Vertical Depth (ft): 7048' TVD (deepest point drilled)				
Total Measured Depth (ft): 12358' MD, 7005' 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) 6999' TVD (Top)Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/dFinal open flow 7637 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.

William D. Halvick  
Signature

4-20-12  
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  
This is a subsequent well. Artero 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: 7257' - 12306' MD (1080 holes)

Frac'd w/ 4,028 gals 15% HCL Acid, 103,433 bbls Slick Water carrying 504,561# 100 mesh, 2,308,257# 40/70 and 1,531,699# 20/40 sand.

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

Formations Encountered: Surface:	Top Depth	Bottom Depth
**Tully	6793'	6915'
Hamilton	6916'	6998'
Marcellus	6999'	7048' TVD

\*\*Artero 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).

*[Faint, illegible text or stamp]*