

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: 6/15/2011
API #: 47-033-05428
UPDATED: 4/20/12

Farm name: Cunningham, Frank D & Patrick H. Operator Well No.: Haney Unit 2H

LOCATION: Elevation: 1301' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 2630 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 10,415 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: Antero Resources Appalachian Corp

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>1625 17th Street</u> <u>Denver, CO 80202</u>	<u>20" 94#</u>	<u>40'</u>	<u>40'</u>	<u>38 Cu. Ft. Class A</u>
Agent: <u>CT Corporation System</u>	<u>13-3/8" 68#</u>	<u>495'</u>	<u>495'</u>	<u>688 Cu. Ft. Class A</u>
Inspector: <u>Tristan Jenkins</u>	<u>9-5/8" 40#</u>	<u>2508'</u>	<u>2508'</u>	<u>1022 Cu. Ft. Class A</u>
Date Permit Issued: <u>6/3/2010</u>	<u>5-1/2" 20#</u>	<u>13133'</u>	<u>13133'</u>	<u>3196 Cu. Ft. Class H</u>
Date Well Work Commenced: <u>10/25/2010</u>				
Date Well Work Completed: <u>3/7/2011</u>	<u>2-3/8" 4.7#</u>	<u>7279'</u>		
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7172' TVD (deepest point drilled)</u>				
Total Measured Depth (ft): <u>13133' MD, 7048' TVD (BHL)</u>				
Fresh Water Depth (ft.): <u>*None available</u>				
Salt Water Depth (ft.): <u>*None available</u>	*Due to air drilling, Antero was unable to identify accurate fresh water, salt water and/or coal depths for reporting.			
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>*None available</u>				
Void(s) encountered (N/Y) Depth(s) <u>N, N/A</u>				

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

Producing formation Marcellus Pay zone depth (ft) 7130' TVD (Top)

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

Final open flow 11687 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.

Dustin Michalek
Signature

4-2012
Date

05/04/2012

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 (Haney Unit 1H API# 47-033-05427). Please reference wireline logs submitted with Form WR-35 for Haney 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: 7514' - 13,066' MD (1008 holes)

Frac'd w/4,500 gals 15% HCL Acid, 90,180 bbls Slick Water carrying 444,800# 100 mesh, 2,003,400# 40/70 and 1,352,200# 20/40 sand.

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

<u>Formations Encountered:</u> <u>Surface:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
**Burkett	6911'	6936'
Tully	6937'	7055'
Hamilton	7056'	7129'
Marcellus	7130'	7172' TVD

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

Therefore, we are unable to accurately identify formation tops from surface. Please reference the additional formation tops submitted on Form WR-35 for the Haney Unit 1H (API# 47-033-05427).

05/04/2012