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State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
WV GEOLOGICAL SURVEY  
MORGANTOWN, WV  
Well Operator's Report of Well Work

DATE: 6/15/2011

API #: 47-033-05427-00

Farm name: Patrick H. Cunningham & Frank D. Cunningham Operator Well No.: Haney Unit 1H

LOCATION: Elevation: 1303' Quadrangle: Wolf Summit

District: Coal County: Harrison  
Latitude: 2647 Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude 10428 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: Antero Resources Appalachian Corporation

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#	484'	484'	672 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2516'	2516'	1024 Cu. Ft. Class A
Date Permit Issued: 6/03/2010	5-1/2" 20#	12,774'	12,774'	3097 Cu. Ft. Class H
Date Well Work Commenced: 7/27/2010		Top	Bottom	
Date Well Work Completed: 3/04/2011	Cement Plug	520'	720'	437 Cu. Ft. Class A
Verbal Plugging: N/A				
Date Permission granted on: N/A	2-3/8" 4.7#	7299'		
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Vertical Depth (ft): 7192' TVD (deepest point drilled)				
Total Measured Depth (ft): 12774' MD, 7034' TVD (BHL)				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) No				

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

Producing formation Marcellus Pay zone depth (ft) 7143' TVD (Top)

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

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.

  
Signature

6-15-11  
Date

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

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

Were N Electrical, Y Mechanical, N or Geophysical logs recorded on this well?  
Y/N Y/N Y/N

**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: 7387' – 12,712' MD (948 holes)

Frac'd w/4,250 gals 15% HCL Acid, 107,300 bbls Slick Water carrying 542,200# 100 mesh, 2,531,900# 40/70 and 1,612,400# 20/40 sand.

Formations Encountered: \_\_\_\_\_ Top Depth \_\_\_\_\_ / \_\_\_\_\_ Bottom Depth  
Surface:

Burkett	6917'
Tully	6944'
Hamilton	7067'
Marcellus	7143' TVD