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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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 #: 47-033-05428-00

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

LOCATION: Elevation: 1301' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 2830' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 10415' 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" 68#	495'	495'	688 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 40#	2508'	2508'	1022 Cu. Ft. Class A
Date Permit Issued: 6/03/2010	5-1/2" 20#	13,133'	13,133'	3196 Cu. Ft. Class H
Date Well Work Commenced: 10/25/2010				
Date Well Work Completed: 3/07/2011	2-3/8" 4.7#	7279'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): 7172' TVD (deepest point drilled)				
Total Measured Depth (ft): 13133' MD, 7048' 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) 7130' 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.

Ashley Mikaleni
Signature

6-15-11
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____ No X

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

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 (1002 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.

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Burkett	6911'	
Tully	6937'	
Hamilton	7056'	
Marcellus	7130' TVD	