

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 #: 47-033-05427
UPDATED: 4/20/12

Farm name: Cunningham, Frank D. & Patrick H 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 10,426 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.
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: <u>6/3/2010</u>	5-1/2" 20#	12774'	12774'	3097 Cu. Ft. Class H
Date Well Work Commenced: <u>7/27/2010</u>		Top	Bottom	
Date Well Work Completed: <u>3/4/2011</u>	Cement Plug	520'	720'	437 Cu. Ft. Class A
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>	2-3/8" 4.7#	7299'		
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7192' TVD (deepest point drilled)</u>				
Total Measured Depth (ft): <u>12774' MD, 7034' TVD (BHL)</u>				
Fresh Water Depth (ft.): <u>*None available</u>				
Salt Water Depth (ft.): <u>*None available</u>				
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) 7143' TVD (Top)

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

Final open flow 8326 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.

Arthur Nehalan
Signature

4-20-12
Date

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
 Photo Density/ Compensated Neutron, Array Induction, Radial Bond

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 (936 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.

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

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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Big Lime	1580'	2045'
Gantz	2046'	2300'
Gordon	2301'	3249'
Speechly	3250'	3463'
Balltown	3464'	4633'
Benson	4634'	5151'
Elk	5152'	6455'
Sycamore	6456'	6916'
Burkett	6917'	6943'
Tully	6944'	7066'
Hamilton	7067'	7142'
Marcellus	7143'	7192' TVD