

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas  
Well Operator's Report of Well Work

DATE: 11/13/2012  
API #: 47-033-05553

Farm name: Matheny, C Norman Matheny & Wandal Operator Well No.: Hawker Unit 1H

LOCATION: Elevation: 1273 Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 3637 Feet South of 39 Deg. 15 Min. 00 Sec.  
Longitude 973 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" 54.5#	490'	490'	681 Cu. Ft. Class A
Inspector: <b>Tristan Jenkins</b>	9 5/8" 36#	2,419'	2,419'	985 Cu. Ft. Class A
Date Permit Issued: 6/8/2011	5 1/2" 20#	15,791'	15,791'	3968 Cu. Ft. Class H
Date Well Work Commenced: 6/10/2011				
Date Well Work Completed: 7/25/2012	2 3/8" 4.7#	6,874'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7030' TVD (deepest point drilled)				
Total Measured Depth (ft): 15,791' MD, 7030' TVD (BHL)				
Fresh Water Depth (ft.): est. 65', 80'				
Salt Water Depth (ft.): 780', 1700', 2390'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Deepest known coal seam mined at surface				
Void(s) encountered (N/Y) Depth(s) N, 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) 6932' TVD (Top)

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 8111 MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock Pressure 3200 psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

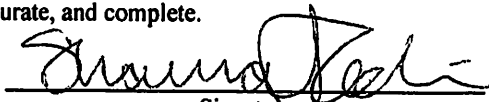
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

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 in 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

11/15/12  
Date

RECEIVED  
 OFFICE OF OIL & GAS  
 2012 NOV 16 P 11:44  
 WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes, CBL, Photo Density/  
Compensated Neutron/ Gamma Ray, Dual Laterolog/ Gamma Ray

**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: 7,672' to 15,729' (1548 holes)

Frac'd w/ 11,000 gals 15% HCL Acid, 170,950 bbls Slick Water carrying 838,260# 100 mesh, 3,648,990# 40/70 and 1,968,940# 20/40 sand.

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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Surface:		
Big Lime	1,458'	1,573'
Big Injun	1,574'	1,968'
Fifty Foot Sand	1,969'	2,119'
Gordon	2,120'	2,388'
Fifth Sandstone	2,389'	2,445'
Bayard	2,446'	3,089'
Speechley	3,090'	3,301'
Balltown	3,302'	3,798'
Bradford	3,799'	4,398'
Benson	4,399'	4,707'
Alexander	4,708'	4,924'
Elk	4,925'	6,137'
Sycamore SS	6,138'	6,282'
Sonyea	6,283'	6,472'
Middlesex	6,473'	6,579'
West River	6,580'	6,705'
Burket	6,706'	6,734'
Tully	6,735'	6,855'
Hamilton	6,856'	6,931'
Marcellus	6,932'	7,030' TVD