

WR-35  
Rev (8-10)

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

DATE: 10/10/2011  
API #: 47-033-05445-00

Farm name: James D. & Meva J. Scarff Operator Well No.: Fairmont Fuel Unit 2H

LOCATION: Elevation: 1295' Quadrangle: Wolf Summit

District: Coal County: Harrison  
Latitude: 4232' Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude 3544' Feet West of 80 Deg. 22 Min. 30 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	16" 55# (Liner)	277'	277'	303 Cu. Ft. Class A
Inspector: Tristan Jenkins	13-3/8" 48#	518'	518'	437 Cu. Ft. Class A
Date Permit Issued: 1/18/2011	9-5/8" 36#	2462'	2462'	1002 Cu. Ft. Class A
Date Well Work Commenced: 2/7/2011	5-1/2" 20#	13,928'	13,928'	3414 Cu. Ft. Class H
Date Well Work Completed: 4/25/2011				
Verbal Plugging: N/A	2-3/8" 4.7#	7193'		
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): 7140' TVD (deepest point drilled)				
Total Measured Depth (ft): 13,928' MD, 7140' 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, Mined out				
Void(s) encountered (N/Y) Depth(s) Y, 160'				

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

Producing formation Marcellus Pay zone depth (ft) 7093' 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.

Harsh Kroppig  
Signature

10/19/2011  
Date

03/02/2012

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: 7503' – 12,905' MD (936 holes)

Frac'd w/4,250 gals 15% HCL Acid, 109,060 bbls Slick Water carrying 550,600# 100 mesh, 2,447,400# 40/70 and 1,320,000# 20/40 sand.

Formations Encountered: Top Depth / Bottom Depth  
Surface:

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
Big Lime	1526'	2272'
Gordon	2273'	2566'
Bayard	2567'	4608'
Benson	4609'	6867'
Tully Limestone	6868'	7000'
Hamilton	7001'	7092'
Marcellus	7093'	7140' TVD