

JK

WR-35
Rev (1-10)

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

DATE: 8/23/2010
API #: 47-033-05362

Farm name: Edgar H. Williams Estate Operator Well No.: Southern Unit 2H

LOCATION: Elevation: 1190' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 7446' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 9124' 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	20" 94#	38'	38'	38 Cu. Ft.
Denver, CO 80202	13-3/8" 48#	930'	930'	1044 Cu. Ft.
Agent: CT Corporation System	9-5/8" 36#	2420'	2420'	979 Cu. Ft.
Inspector: Tim Bennett	5-1/2" 20#	16,060'	16,060'	4166 Cu. Ft.
Date Permit Issued: 12/01/2009				
Date Well Work Commenced: 2/22/2010	2-3/8" 4.7#	7112'		
Date Well Work Completed: 5/16/2010				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): 7156' TVD (deepest point in well)				
Total Measured Depth (ft): 16,093' MD, 7156' TVD (BHL)				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

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

Producing formation Marcellus Pay zone depth (ft) 6977' TVD (Top)
Gas: Initial open flow 0 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 12,131 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 140.5 Hours
Static rock Pressure 4000 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.

Ashli Michalew
Signature

8/23/2010
Date

08/22/2014

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: 7271' - 15,993' MD (1512 holes)

Frac'd w/5,292 gals 15% HCl Acid, 176,579 bbls Slick Water carrying 777,718# 100 mesh,
3,803,159# 40/70 sand and 2,198,765# 20/40 sand.

Formations Encountered: Top Depth / Bottom Depth
Surface:

Burkett	6730'	/	6755'
Tully	6756'	/	6888'
Hamilton	6889'	/	6976'
Marcellus	6977'	/	7156' TVD
