

JA

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 #: 47-033-05363

Farm name: Edgar H. Williams Estate Operator Well No.: Southern Unit 1H

LOCATION: Elevation: 1191' Quadrangle: Wolf Summit

District: Coal County: Harrison  
Latitude: 8726' Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude 9164' 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.
	13-3/8" 48#	934'	934'	1224 Cu. Ft.
Agent: CT Corporation System	9-5/8" 36#	2447'	2447'	979 Cu. Ft.
Inspector: Tim Bennett	5-1/2" 20#	16,606'	16,606'	4316 Cu. Ft.
Date Permit Issued: 12/01/2009				
Date Well Work Commenced: 1/13/2010	2-3/8" 4.7#	7132'		
Date Well Work Completed: 5/05/2010				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Vertical Depth (ft): 7177' TVD (deepest point in well)				
Total Measured Depth (ft): 16,606' MD, 7177' 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				

Received  
Office of Oil & Gas  
SEP 08 2014

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

Producing formation Marcellus Pay zone depth (ft) 5977' TVD (Top)

Gas: Initial open flow 0 MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow 17,809 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 79 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.

Archie Michalec  
Signature

8/23/2010  
Date

09/19/2014

**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: 7678' – 16,545' MD (1512 holes)**

**Frac'd w/8,354 gals 15% HCl Acid, 198,595 bbls Slick Water carrying 784,711# 100 mesh, 3,830,255# 40/70 sand and 2,173,100# 20/40 sand.**

**Formations Encountered:** \_\_\_\_\_ **Top Depth** / \_\_\_\_\_ **Bottom Depth**  
Surface: \_\_\_\_\_

<b>Formations Encountered:</b>	<b>Top Depth</b>	<b>Bottom Depth</b>
Sycamore	6291'	6731'
Burkett	6732'	6758'
Tully	6759'	6887'
Hamilton	6888'	6976'
Marcellus	6977'	7177' TVD