

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: 11/8/2012
API #: 47-033-05549 - D

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

LOCATION: Elevation: 1191' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 8728' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 9173' Feet West of 80 Deg. 22 Min. 30 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" 55#	476'	476'	661 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2620'	2620'	1067 Cu. Ft. Class A
Date Permit Issued: 5/24/2011	5-1/2" 20#	17,129'	17,129'	4275 Cu. Ft. Class H
Date Well Work Commenced: 6/4/2011				
Date Well Work Completed: 8/5/2012	2-3/8" 4.6#	7117'		
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): 7049' TVD (deepest point drilled)				
Total Measured Depth (ft): 17,129' MD, 7049' TVD (BHL)				
Fresh Water Depth (ft.): 153'				
Salt Water Depth (ft.): 1030'				
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) 6972' TVD (Top)

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

Final open flow 8,881 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.

Lisa Boheler
Signature

11/13/12
Date

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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.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Southern Unit 2H API# 47-033-05363). Please reference wireline logs submitted with Form WR-35 for Southern Unit 2H.

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: 7127' – 16,798' MD (1884 holes)

Frac'd w/ 14,008 gals 15% HCL Acid, 206,991 bbls Slick Water carrying 1,114,000# 100 mesh, 4,132,200# 40/70 and 2,565,500# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s):

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		
Big Lime	1,402'	1,494'
Big Injun	1,495'	1,907'
Gantz Sand	1,908'	1,964'
Fifty Foot Sand	1,965'	2,162'
Gordon	2,163'	2,402'
Fifth Sandstone	2,403'	2,471'
Bayard	2,472'	3,134'
Speechley	3,135'	3,309'
Balltown	3,310'	3,832'
Bradford	3,833'	4,419'
Benson	4,420'	4,809'
Alexander	4,810'	5,004'
Elk	5,005'	5,589'
Rhinestreet	5,590'	6,278'
Sycamore SS	6,279'	6,731'
Burkett	6,732'	6,756'
Tully	6,757'	6,884'
Hamilton	6,885'	6,971'
Marcellus	6,972'	7,049' TVD