

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: 11/20/2012
API #: 47-033-05596

Farm name: Williams, Betty Ann Operator Well No.: Andrews Unit 1H

LOCATION: Elevation: 1215' Quadrangle: Wolf Summit

District: Tenmle County: Harrison
Latitude: 3.395 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8.860 Feet West of 80 Deg. 27 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#	67'	67'	64 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	502'	502'	697 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2587'	2587'	1053 Cu. Ft. Class A
Date Permit Issued: 5/17/2012	5-1/2" 20#	14,552'	14,552'	3576 Cu. Ft. Class H
Date Well Work Commenced: 5/19/2012				
Date Well Work Completed: 9/9/2012	2-3/8" 4.7#	7058'		
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): 7,065' TVD				
Total Measured Depth (ft): 14,552' MD				
Fresh Water Depth (ft.): 136', 207', 297'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 116', 196', 221'				
Void(s) encountered (N/Y) Depth(s) No, 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) 6,940' TVD (Top)

Gas: Initial open flow ___ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 11,758 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 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 Portinelli
Signature

11/20/12
Date

RECEIVED
OFFICE OF OIL & GAS
2012 NOV 26 P 10:14
11/22/2012
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.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Post East Unit 5H API# 47-033-05580). Please reference wireline logs submitted with Form WR-35 for Post East Unit 5H.

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: 7099'-14,487' MD (1596 holes)
 Frac'd w/ 13,986 gals 15% HCL Acid, 158,343 bbls Slick Water carrying 776,059# 100 mesh,
 2,936,779# 40/70 and 1,765,469# 20/40 sand.

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

Formations Encountered:	Top Depth	Bottom Depth
<u>Surface:</u>		
Big Lime (est.)	1,586'	2,120'
Fifty Foot Sand (est.)	2,121'	2,247'
Gordon (est.)	2,248'	2,532'
Fifth Sandstone (est.)	2,533'	2,583'
Bayard (est.)	2,584'	3,239'
Speechley (est.)	3,240'	3,467'
Balltown (est.)	3,468'	4,001'
Bradford (est.)	4,002'	4,578'
Benson (est.)	4,579'	4,871'
Alexander (est.)	4,872'	5,100'
Elk (est.)	5,101'	5,628'
Rhinestreet (est.)	5,629'	6,297'
Sycamore (est.)	6,298'	6,554'
Middlesex	6,555'	6,558'
Sonyea	6,559'	6,630'
West River Shale	6,631'	6,683'
Genundewa	6,684'	6,720'
Burket	6,721'	6,746'
Tully	6,747'	6,939'
Marcellus	6,940'	7,065' TVD