

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: 11/29/2012  
API #: 47-033-05592

Farm name: Sperry, Clarence E., Janet L., L. Diane Operator Well No.: AA Post Unit 1H

LOCATION: Elevation: 1169' Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 2278 Feet South of 39 Deg. 15 Min. 00 Sec.  
Longitude 4351 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#	80'	80'	77 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 54.5#	528'	528'	757 Cu. Ft. Class A
Inspector: <b>Tristan Jenkins</b>	9-5/8" 36#	2450'	2450'	1677 Cu. Ft. Class A
Date Permit Issued: 1/31/2012	5-1/2" 20#	15,341'	15,341'	3824 Cu. Ft. Class H
Date Well Work Commenced: 2/7/2012				
Date Well Work Completed: 4/21/2012	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): 7,006' TVD				
Total Measured Depth (ft): 15344' MD, 6870' TVD (BHL)				
Fresh Water Depth (ft.): 50', 75'				
Salt Water Depth (ft.): 610'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Pad on PGH strip bench. Sealed coal mine 1,850' to the NW of pad.				
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) 6,965' TVD (Top)

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

Final open flow 16,882 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.

Shirana Redice  
Signature

11/29/12  
Date

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 Unit 2H API# 47-033-05492). Please reference wireline logs submitted with Form WR-35 for Post 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: 7,202' - 15,275' (1,644 holes)

Frac'd w/ 12,000 gals 15% HCL Acid, 197,290 bbls Slick Water carrying 890,420# 100 mesh,

3,940,823 # 40/70 and 2,926,335# 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	1,504'		1,615'
Big Injun	1,616'		2,005'
Fifty Foot Sandstone	2,006'		2,142'
Gordon	2,143'		2,417'
Fifth Sandstone	2,418'		2,470'
Bayard	2,471'		3,139'
Speechley	3,140'		3,366'
Balltown	3,367'		3,850'
Bradford	3,851'		4,437'
Benson	4,438'		4,743'
Alexander	4,744'		4,826'
Elk	4,827'		6,282'
Sycamore	6,283'		6,552'
Sonyea	6,553'		6,559'
Middlesex	6,560'		6,652'
West River Shale	6,653'		6,705'
Genundewa	6,706'		6,747'
Burket	6,748'		6,775'
Tully	6,776'		6,894'
Hamilton	6,895'		6,964'
Marcellus	6,965'		7,006' TVD

WELL NAME: AA Post 1H

API #: 47-033-05592

## List of Additives Used for Fracturing Or Stimulating Well

ADDITIVES	CHEMICAL ABSTRACT SERVICE NUMBER (CAS #)
AP 1 (Ammonium Persulfate)	7727-54-0
Bioclear 2000 (2,2-Dibromo-3-Nitrilopropionamide)	102522-01-2
Hydrochloric Acid	7647-01-0
Water	7732-18-5
Progel 4.0-1 (Hydrocarbons)	876065-86-0
SI-1000	Mixture
Ethylene Glycol	107-21-1
Sodium Polyacrylate Copolymer	25987-30-8
WFRA-405	Mixture
Sodium Chloride	7647-14-5
Ammonium Chloride	12125-02-9
Petroleum Distillate hydrotreated	64742-47-8
Alcohols, C12-16, Ethoxylated	68551-12-2