

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

DATE: 9/4/2012  
API #: 47-033-05467

Farm name: Lowe, Francis and Nancy Operator Well No.: Wagner Unit 3H

LOCATION: Elevation: 1214' Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 87° 62' Feet South of 39 Deg. 15 Min. 00 Sec.  
Longitude 80° 7' Feet West of 80 Deg. 25 Min. 00 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" 68#	535'	535'	742 Cu. Ft. Class A
Inspector: <u>Tristan Jenkins</u>	9-5/8" 36#	2468'	2468'	1005 Cu. Ft. Class A
Date Permit Issued: <u>09/08/2010</u>	5-1/2" 20#	13,960'	13,960'	3450 Cu. Ft. Class H
Date Well Work Commenced: <u>3/25/2011</u>				
Date Well Work Completed: <u>5/22/2011</u>	2-3/8" 4.7#	7281'		
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7031' TVD (deepest point drilled)</u>				
Total Measured Depth (ft): <u>13,960' MD, 7031' TVD (BHL)</u>				
Fresh Water Depth (ft.): <u>*None available</u>	*Due to air drilling, Antero was unable to report accurate fresh water, salt water and coal depths for reporting.			
Salt Water Depth (ft.): <u>*None available</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>*None available</u>				
Void(s) encountered (N/Y) Depth(s) <u>N, N/A</u>				

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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) 6864' TVD (Top)

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A E  
Final open flow 10,485 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 3200 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.

[Signature]  
Signature

9/4/12  
Date

Were core samples taken? Yes \_\_\_\_\_ No **X**

Were cuttings caught during drilling? Yes \_\_\_\_\_ No **X**

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - Cement Bond Log/Gamma Ray/CCL Log  
This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Wagner Unit 1H API# 47-033-05465). Please reference wireline logs submitted with Form WR-35 for Wagner Unit 1H.

**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: 7418' - 13,898' MD

Frac'd w/ 5,000 gals 15% HCL Acid, 113,342 bbls Slick Water carrying 378,700# 100 mesh, 2,383,200# 40/70 and 1,392,600# 20/40 sand.

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

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		
**Tully	6,664'	6,785'
Hamilton	6,786'	6,863'
Marcellus	6,864'	7,031' TVD

\*\*Antero only runs wireline logs on the first well on a multi-well pad (Wagner Unit 1H). Since this is a subsequent well, our logging started at the top of the Tully. Therefore, we are unable to accurately identify formation tops from surface. Please reference the additional formation tops submitted on Form WR-35 for the Wagner Unit 1H (API# 47-033-05465).