

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: 3/3/2011  
API #: 47-033-05358  
UPDATED: 4/20/12

Farm name: Five H. Investments, LLC Operator Well No.: Hornor Unit 2H

LOCATION: Elevation: 1225' Quadrangle: Wolf Summit

District: Coal County: Harrison  
Latitude: 7968 Feet South of 39 Deg. 20 Min. 00 Sec.  
Longitude 13.526 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" 51#	40'	40'	59 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 54# & 48#	919'	919'	1260 Cu. Ft. Class A
Inspector: <b>Tristan Jenkins</b>	9-5/8" 36#	2446'	2446'	1026 Cu. Ft. Class A
Date Permit Issued: 11/19/2009	5-1/2" 20#	12749'	12749'	3132 Cu. Ft. Class H
Date Well Work Commenced: 5/6/2010				
Date Well Work Completed: 12/7/2010	2-3/8" 4.7#	7056'		
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): 7081' TVD (deepest point drilled)				
Total Measured Depth (ft): 12749' MD, 7081' TVD (BHL)				
Fresh Water Depth (ft.): *None available				
Salt Water Depth (ft.): *None available				*Due to air drilling, Antero was unable to identify accurate fresh water, salt water and/or coal depths for reporting.
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): *None available				
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) 7010' TVD (Top)

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

Final open flow 1800 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure 3378 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.

*Joshua Michalew*  
Signature

4-20-12  
Date

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

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

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - Cement Bond Log/Gamma Ray/CCL Log and Photo Density/ Compensated Neutron/ Compensated Sonic

**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: 7391' - 12,685' MD (864 holes)

Frac'd w/4,024 gals 15% HCL Acid, 99,767 bbls Slick Water carrying 466,020# 100 mesh, 2,312,280# 40/70 and 1,372,260# 20/40 sand.

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

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

Formations Encountered:	Top Depth	Bottom Depth
Big Injun	1522'	2430'
Fifth Sandstone	2431'	3120'
Speechley	3121'	3346'
Balltown	3347'	3926'
Bradford	3927'	4456'
Benson	4457'	4757'
Alexander	4758'	4983'
Elk	4985'	6293'
Sycamore	6294'	6795'
Tully	6796'	6923'
Hamilton	6924'	7009'
Marcellus	7010'	7081' TVD