

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: 4/18/13  
API #: 47-017-06076

Farm name: Erwin, John F. Operator Well No.: Erwin Unit 1H

LOCATION: Elevation: 1,223' Quadrangle: New Milton 7.5'

District: New Milton County: Doddridge  
Latitude: 242' Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 10,961' Feet West of 80 Deg. 42 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" 48#	1258'	1258'	1748 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2,638'	2,638'	1074 Cu. Ft. Class A
Date Permit Issued: 4/2/2012	5-1/2" 20#	16,914'	16,914'	4196 Cu. Ft. Class H
Date Well Work Commenced: 6/16/12				
Date Well Work Completed: 2/14/2013	2-3/8" 4.7#	7395'		
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): 7278' TVD				
Total Measured Depth (ft): 16,914' MD				
Fresh Water Depth (ft.): 233'				
Salt Water Depth (ft.): 1265', 1939'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None Reported				
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) 7119' TVD (Top)

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

Final open flow 8,461 MCF/d Final open flow N/A Bbl/d

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

Static rock Pressure 3950 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

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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] 5/2/13  
Signature Date

06/14/2013

17-06076

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- CBL**

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Tom's Fork Unit 2H AP#47-017-06082). Please reference the wireline logs submitted with Form WR-35 for Tom's Fork 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: 7,529' - 16,849' MD ( 1,944 holes)

Frac'd w/ 14,000 gals 15% HCL Acid, 202,083 bbls Slick Water carrying 964,700# 100 mesh, 3,836,500# 40/70 sand and 2,164,000# 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>		
Big Lime	est.2251'	2343'
Big Injun	est. 2344'	2750'
Fifty Foot Sandstone	est. 2751'	2948'
Gordon	est. 2949'	3306'
Fifth Sandstone	est. 3307'	4131'
Balltown	est. 4132'	4771'
Bradford	est. 4772'	5230'
Benson	est. 5231'	5487'
Alexander	est. 5488'	6719'
Sycamore	6720'	6877'
Middlesex	6878'	7013'
Burket	7014'	7047'
Tully	7048'	7118'
Marcellus	7119'	7278' TVD

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