

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 #: 47-017-06082

Farm name: Erwin, John F. Operator Well No.: Toms Fork Unit 2H

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

District: New Milton County: Doddridge
Latitude: 212' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 10,964' 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#	716'	716'	995 Cu. Ft. Class A
Inspector: Douglas Newlon	9-5/8" 36#	2640'	2640'	1075 Cu. Ft. Class A
Date Permit Issued: 6/6/2012	5-1/2" 20#	16,077'	16,077'	3965 Cu. Ft. Class H
Date Well Work Commenced: 6/26/12				
Date Well Work Completed: 1/18/2013	2-3/8" 4.7#	7366'		
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): 7299' TVD				
Total Measured Depth (ft): 16,077' MD				
Fresh Water Depth (ft.): 233'				
Salt Water Depth (ft.): 1900'				
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) 7,144' TVD (Top)

Gas: Initial open flow --- MCF/d Oil: Initial open flow N/A E

Final open flow 7,603 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

Received
Office of Oil & Gas

MAY - 7 2013

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.

Katey Hobbs
Signature

5/2/13
Date

06/14/2013

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- CBL, Photo Density/Compensated Neutron/ Gamma Ray, Gamma Ray/Dual Laterlog

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: 7365' - 15,850' MD (1,800 holes)

Frac'd w/ 13,000 gals 15% HCL Acid, 187,523 bbls Slick Water carrying 823,600# 100 mesh, 3,326,400# 40/70 sand and 1,874,600# 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	2251'		2343'
Big Injun	2344'		2750'
Fifty Foot Sandstone	2751'		2948'
Gordon	2949'		3306'
Fifth Sandstone	3307'		4131'
Balltown	4132'		4771'
Bradford	4772'		5230'
Benson	5231'		5487'
Alexander	5488'		6736'
Sycamore	6737'		6895'
Middlesex	6896'		7043'
Burket	7044'		7068'
Tully	7069'		7143'
Marcellus	7144'		7299' TVD