

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: 4/2/13
API #: 47-085-09960

Farm name: Williamson, Andrew & Et Al Operator Well No.: Nicholson Unit 2H

RECEIVED

LOCATION: Elevation: 1142' Quadrangle: Pullman 7.5'

APR 22 2013

District: Union County: Ritchie
Latitude: 2,675 Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 4,704 Feet West of 80 Deg. 52 Min. 30 Sec.

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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" 54.5#	334'	334'	464 Cu. Ft. Class A
Inspector: Sam Ward	9-5/8" 36#	2560'	2560'	1042 Cu. Ft. Class A
Date Permit Issued: 5/29/2012	5-1/2" 20#	13,929'	13,929'	3399 Cu. Ft. Class H
Date Well Work Commenced: 7/13/2012				
Date Well Work Completed: 9/21/2012	2-3/8" 4.7#	6816'		
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): 6,630' TVD (deepest point drilled)				
Total Measured Depth (ft): 6621' TVD, 13,929' MD (BHL)				
Fresh Water Depth (ft.): 85'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): No coal layers observed				
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 N/A- Waiting on Pipeline Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow _____ MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure _____ 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.

Katherine
Signature

4/19/13
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, Dual Laterolog/Gamma Ray, and Photo Density/Compensated Neutron/Gamma Ray

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: 6,812 - 13,863' MD (1,488 holes)

Frac'd w/ 13,500 gals 15% HCL Acid, 146,592 bbls Slick Water carrying 736,700# 100 mesh, 2,650,200# 40/70 and 1,459,500# 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	2,115'	2,178'
Big Injun	2,179'	2,462'
Gantz Sand	2,463'	2,597'
Fifty Foot Sand	2,598'	2,709'
Gordon	2,710'	2,084'
Fifth Sandstone	3,085'	3,191'
Bayard	3,192'	3,961'
Speechley	3,962'	4,165'
Balltown	4,166'	4,636'
Bradford	4,637'	5,027'
Benson	5,028'	5,268'
Alexander	5,269'	5,467'
Elk	5,468'	5,815'
Rhinestreet	5,816'	6,240'
Sycamore	6,241'	6,410'
Middlesex	6,411'	6,522'
Burket	6,523'	6,555'
Tully	6,556'	6,576'
Marcellus	6,577'	6,630' TVD