

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

DATE: 4/22/13
API #: 47-033-05674

Farm name: Hill, David W. and Suellen Operator Well No.: Koonse Unit 1H

LOCATION: Elevation: 1,150' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 15,536' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 3,542' Feet West of 80 Deg. 30 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'	60 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	452'	452'	628 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2,733'	2,733'	1113 Cu. Ft. Class A
Date Permit Issued: 10/26/2012	5-1/2" 20#	14,655'	14,655'	3552 Cu. Ft. Class H
Date Well Work Commenced: 10/28/12				
Date Well Work Completed: 2/22/2013	2-3/8" 4.7#	7497'		
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): 7464' TVD (deepest point drilled)				
Total Measured Depth (ft): 14,655' MD, 7392' TVD (BHL)				
Fresh Water Depth (ft.): 135'				
Salt Water Depth (ft.): 1783'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 415', 487', 553', 660'				
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) 7,353' TVD (Top)

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

Final open flow 9,993 MCF/d Final open flow N/A Bbl/d

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

Static rock Pressure 3800 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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MORGANTOWN, WV

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

5/2/13
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- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Haymond NW Unit 2H API#47-033-05236). Please reference the wireline logs submitted with Form WR-35 for Haymond NW 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: 7867' - 14,590' MD (1,440 holes)

Frac'd w/ 10,500 gals 15% HCL Acid, 140,486 bbls Slick Water carrying 420,700# 100 mesh,
7,594,300# 40/70 sand and 1,389,500# 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	est. 2238'	2282'
Big Injun	est. 2283'	2722'
Gantz Sand	est. 2723'	2831'
Fifty Foot Sandstone	est. 2832'	2930'
Gordon	est. 2931'	3275'
Fifth Sandstone	est. 3276'	3335'
Bayard	est. 3336'	3845'
Speechley	est. 3846'	4244'
Balltown	est. 4245'	4698'
Bradford	est. 4699'	5219'
Benson	est. 5220'	5522'
Alexander	est. 5523'	5564'
Elk	est. 5665'	6223'
Rhinestreet	6224'	6760'
Sycamore	6761'	6999'
Middlesex	7000'	7155'
Burket	7156'	7187'
Tully	7188'	7296'
Hamilton	7297'	7352'
Marcellus	7353'	7464' TVD

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