

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: 4/22/13
API #: 47-033-05675

Farm name: Hill, David W. and Suellen Operator Well No.: Koonse Unit 2H

LOCATION: Elevation: 1,150' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 15,543' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 3,535' 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. |
|--|--------------------|------------------|----------------|-----------------------------|
| <u>1625 17th Street</u> <u>Denver, CO 80202</u> | <u>20" 94#</u> | <u>40'</u> | <u>40'</u> | <u>38 Cu. Ft. Class A</u> |
| Agent: <u>CT Corporation System</u> | <u>13-3/8" 48#</u> | <u>460'</u> | <u>460'</u> | <u>639 Cu. Ft. Class A</u> |
| Inspector: <u>Tristan Jenkins</u> | <u>9-5/8" 36#</u> | <u>2,718'</u> | <u>2,718'</u> | <u>1107 Cu. Ft. Class A</u> |
| Date Permit Issued: <u>10/26/2012</u> | <u>5-1/2" 20#</u> | <u>14,567'</u> | <u>14,567'</u> | <u>3532 Cu. Ft. Class H</u> |
| Date Well Work Commenced: <u>10/28/12</u> | | | | |
| Date Well Work Completed: <u>2/22/2013</u> | <u>2-3/8" 4.7#</u> | <u>7497'</u> | | |
| Verbal Plugging: <u>N/A</u> | | | | |
| Date Permission granted on: <u>N/A</u> | | | | |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> | | | | |
| Total Vertical Depth (ft): <u>7461' TVD (deepest point drilled)</u> | | | | |
| Total Measured Depth (ft): <u>14,567' MD, 7372' TVD (BHL)</u> | | | | |
| Fresh Water Depth (ft.): <u>390'</u> | | | | |
| Salt Water Depth (ft.): <u>1797'</u> | | | | |
| Is coal being mined in area (N/Y)? <u>N</u> | | | | |
| Coal Depths (ft.): <u>415', 487', 553', 660'</u> | | | | |
| Void(s) encountered (N/Y) Depth(s) <u>N, N/A</u> | | | | |

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,388 TVD (Top)

Gas: Initial open flow _____ MCF/d Oil: Initial open flow N/A B
Final open flow 3,465 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

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.

Kate Kosta 5/2/13
Signature Date

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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: 7971' - 14,504' MD (1,224 holes)

Frac'd w/ 9,000 gals 15% HCL Acid, 173,332 bbls Slick Water carrying 963,800# 100 mesh,
3,761,100# 40/70 sand and 2,381,900# 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' | 6888' |
| Sycamore | 6889' | 7076' |
| Middlesex | 7077' | 7222' |
| Burket | 7223' | 7246' |
| Tully | 7247' | 7336' |
| Hamilton | 7337' | 7387' |
| Marcellus | 7388' | 7464' TVD |

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