

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 #: 47-033-05615

Farm name: Bowyer, Mathew E. and Lisa D. Operator Well No.: Winnie Unit 2H

LOCATION: Elevation: 1290' Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 8,944' Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 2,350' Feet West of 80 Deg. 27 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<br>Denver, CO 80202   | 20" 94#         | 40'              | 40'          | 38 Cu. Ft. Class A     |
| Agent: CT Corporation System   | 13-3/8" 48#     | 330'             | 330'         | 458 Cu. Ft. Class A    |
| Inspector: Tristan Jenkins   | 9-5/8" 36#      | 2446'            | 2446'        | 996 Cu. Ft. Class A    |
| Date Permit Issued: 6/28/2012  | 5-1/2" 20#      | 15,753'          | 15,753'      | 3944 Cu. Ft. Class H   |
| Date Well Work Commenced: 6/30/2012  |                 |                  |              |                        |
| Date Well Work Completed: 1/13/2013  | 2-3/8" 4.7#     | 7,328'           |              |                        |
| 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): 7143' TVD(deepest point drilled)  |                 |                  |              |                        |
| Total Measured Depth (ft): 7,058' TVD , 15,753' MD (BHL)   |                 |                  |              |                        |
| Fresh Water Depth (ft.): 180'  |                 |                  |              |                        |
| Salt Water Depth (ft.): None available   |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? N   |                 |                  |              |                        |
| Coal Depths (ft.): 18', 178', 258', 298'   |                 |                  |              |                        |
| 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 sheets)

Producing formation Marcellus Pay zone depth (ft) 7,092' TVD (Top)

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

Final open flow 9,090 MCF/d Final open flow N/A Bbl/d

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

Static rock Pressure 3600 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 Kate  
Signature

4/16/13  
Date

06/21/2013

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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: 7,319' - 15,687' MD (1,800 holes)

Frac'd w/ 13,104 gals 15% HCL Acid, 177,773 bbls Slick Water carrying 899,820# 100 mesh,  
3,419,595# 40/70 sand and 2,038,000# 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                       | 1748'            | 1856'               |
| Big Injun                      | 1857'            | 2107'               |
| Gantz Sand                     | 2108'            | 2223'               |
| Fifty Foot Sandstone           | 2224'            | 2329'               |
| Gordon                         | 2330'            | 2564'               |
| Fifth Sandstone                | 2565'            | 2627'               |
| Bayard                         | 2628'            | 3311'               |
| Speechley                      | 3312'            | 3557'               |
| Balltown                       | 3558'            | 4082'               |
| Bradford                       | 4083'            | 4708'               |
| Benson                         | 4709'            | 4923'               |
| Alexander                      | 4924'            | 5064'               |
| Elk                            | 5065'            | 5627'               |
| Rhinestreet                    | 5628'            | 6448'               |
| Sycamore                       | 6449'            | 6710'               |
| Middlesex                      | 6711'            | 6879'               |
| Burket                         | 6880'            | 6906'               |
| Tully                          | 6907'            | 7019'               |
| Hamilton                       | 7020'            | 7091'               |
| Marcellus                      | 7092'            | 7143' TVD           |