

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

DATE: 1/14/2013  
API #: 47-033-05638

Farm name: Lowe, Francis and Nancy Operator Well No.: Ora Unit 1H

LOCATION: Elevation: 1201' Quadrangle: West Milford

District: Union County: Harrison  
Latitude: 8763' Feet South of 39 Deg. 15 Min. 00 Sec.  
Longitude 541' Feet West of 80 Deg. 25 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<br>Denver, CO 80202   | 20" 94#         | 40'              | 40'          | 38 Cu. Ft.             |
| Agent: CT Corporation System   | 13 3/8" 48#     | 593'             | 593'         | 824 Cu. Ft. Class A    |
| Inspector: Tristan Jenkins   | 9 5/8" 36#      | 2554'            | 2554'        | 1040 Cu. Ft. Class A   |
| Date Permit Issued: 6/14/2012  | 5 1/2" 20#      | 16549'           | 16549'       | 4135 Cu. Ft. Class H   |
| Date Well Work Commenced: 6/25/2012  |                 |                  |              |                        |
| Date Well Work Completed: 11/10/2012   |                 |                  |              |                        |
| Verbal Plugging: N/A   |                 |                  |              |                        |
| Date Permission granted on: N/A  | 2 3/8" 4.7#     | 7135'            |              |                        |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> |                 |                  |              |                        |
| Total Vertical Depth (ft): 7011' TVD   |                 |                  |              |                        |
| Total Measured Depth (ft): 16565' MD   |                 |                  |              |                        |
| Fresh Water Depth (ft.): 40'   |                 |                  |              |                        |
| Salt Water Depth (ft.): None available   |                 |                  |              |                        |
| Is coal being mined in area (N/Y)? N   |                 |                  |              |                        |
| Coal Depths (ft.): Pad constructed on reclaimed PHG strip bench  |                 |                  |              |                        |
| Void(s) encountered (N/Y) Depth(s) None  |                 |                  |              |                        |

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

Producing formation Marcellus Pay zone depth (ft) 6853' TVD (Top)

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 11640 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.

Shanna Pech  
Signature

1/14/13  
Date

02/08/2013

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

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-well pad (Wagner Unit 1H, API# 47-033-05465). Please reference the wireline logs submitted with Form WR-35 for Wagner Unit 1H.

**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: 7242'-16483' (2160 holes)

Frac'd w/ 17,750 gals 15% HCL Acid, 194,348 bbls Slick Water carrying 954,909# 100 mesh,  
3,601,801# 40/70 and 2,152,707# 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.                  | 1453'            | 1564'               |
| Big Injun est.                 | 1565'            | 1972'               |
| Fifty Foot Sandstone est.      | 1973'            | 2115'               |
| Gordon est.                    | 2116'            | 2382'               |
| Fifth Sandstone est.           | 2383'            | 2435'               |
| Bayard est.                    | 2436'            | 3089'               |
| Speechley est.                 | 3090'            | 3305'               |
| Balltown est.                  | 3306'            | 3815'               |
| Bradford est.                  | 3816'            | 4482'               |
| Benson est.                    | 4483'            | 4786'               |
| Alexander est.                 | 4787'            | 5013'               |
| Elk est.                       | 5014'            | 5541'               |
| Rhinestreet est.               | 5542'            | 6428'               |
| Middlesex                      | 6429'            | 6532'               |
| West River Shale               | 6533'            | 6628'               |
| Burket                         | 6629'            | 6656'               |
| Tully                          | 6657'            | 6852'               |
| Marcellus                      | 6853'            | 7011' TVD           |

02/08/2013