

WR-35  
Rev (8-10)

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

DATE: 4-4-2011  
API #: 47-097-03653

Farm name: Arthur Chidester 2H Operator Well No.: 627005

LOCATION: Elevation: 1900 GL Quadrangle: 582 - Rock Cave

District: 1 - Banks County: 097 - Upshur  
Latitude: 11.600 Feet South of 38 Deg. 50 Min. 00 Sec.  
Longitude 3200 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: Chesapeake Appalachia, LLC

| Address:  | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|---|-----------------|------------------|--------------|------------------------|
| P.O. Box 18496, Oklahoma City, OK 73154                                       | 20"             | 70'              | 70'          | driven                 |
| Agent: <b>Eric Gillespie</b>  | 13 3/8"         | 600'             | 600'         | 670 CF                 |
| Inspector: <b>Bill Hatfield</b>   | 9 5/8"          | 1925'            | 1925'        | 945 CF                 |
| Date Permit Issued: <u>6/5/2009</u>   | 7"              | 7570'            | 7570'        | 737 CF                 |
| Date Well Work Commenced: <u>12/20/2009</u>                                   | 4 1/2" LNR      | 6354-10990       | 6354-10990   | 506 CF                 |
| Date Well Work Completed: <u>3/23/2011</u>                                    |                 |                  |              |                        |
| Verbal Plugging:  |                 |                  |              |                        |
| Date Permission granted on:   |                 |                  |              |                        |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig |                 |                  |              |                        |
| Total Vertical Depth (ft): <u>7,137'</u>                                      |                 |                  |              |                        |
| Total Measured Depth (ft): <u>10,990'</u>                                     |                 |                  |              |                        |
| Fresh Water Depth (ft.): <u>499</u>   |                 |                  |              |                        |
| Salt Water Depth (ft.): <u>None</u>   |                 |                  |              |                        |
| Is coal being mined in area (N/Y)?  |                 |                  |              |                        |
| Coal Depths (ft.): <u>499-501, 999</u>  |                 |                  |              |                        |
| Void(s) encountered (N/Y) Depth(s)  |                 |                  |              |                        |

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

Producing formation Marcellus Shale Pay zone depth (ft) 7,610'-10,850'

Gas: Initial open flow 201 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 3,212 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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WV Department of  
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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.

Marlene Williams  
Signature

11-30-2011  
Date

01/27/2012



| LITHOLOGY    | TOP DEPTH (FT) | BOTTOM DEPTH (FT) |
|--------------|----------------|-------------------|
| SS           | 0              | 20                |
| SHALE / SILT | 20             | 50                |
| SS           | 50             | 65                |
| SHALE / SILT | 65             | 80                |
| SS           | 80             | 145               |
| SHALE / SILT | 145            | 155               |
| SS           | 155            | 160               |
| SHALE / SILT | 160            | 185               |
| SS           | 185            | 195               |
| SHALE / SILT | 195            | 320               |
| SS           | 320            | 360               |
| SHALE / SILT | 360            | 440               |
| SS           | 440            | 499               |
| COAL         | 499            | 501               |
| SHALE / SILT | 501            | 600               |
| LS           | 600            | 610               |
| SHALE / SILT | 610            | 760               |
| SS           | 760            | 900               |
| SHALE / SILT | 900            | 935               |
| LS           | 935            | 999               |
| COAL         | 999            | 1001              |
| LS           | 1001           | 1055              |
| SHALE / SILT | 1055           | 1130              |
| SS           | 1130           | 1200              |
| SHALE / SILT | 1200           | 1476              |
| Big Lime     | 1476           | 1542              |
| SS           | 1542           | 1713              |
| Big Injun    | 1713           | 1962              |
| SHALE / SILT | 1962           | 1983              |
| Gordon       | 1983           | 1993              |
| SHALE / SILT | 1993           | 3998              |
| Benson       | 3998           | 4008              |
| SHALE / SILT | 4008           | 7116              |
| Geneseo      | 7116           | 7178              |
| Tully        | 7178           | 7258              |
| Hamilton     | 7258           | 7391              |
| Marcellus    | 7391           | 10990             |