

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

Farm name: Thelma Hays OHI 8H Operator Well No.: 833790

RECEIVED

LOCATION: Elevation: 1250' Quadrangle: Bethany

AUG 27 2012

District: Liberty County: Ohio
Latitude: 3500' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 5550' Feet West of 80 Deg. 32 Min. 30 Sec.

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Company: Chesapeake Appalachia, L.L.C.

| Address: | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|--|-----------------|------------------|--------------|------------------------|
| P.O. Box 18496 Oklahoma City, OK 73154-0496 | 20" | 101' | 101' | 174 Cu. Ft. |
| Agent: Eric Gillespie | 13 3/8" | 654' | 654' | 701 Cu. Ft. |
| Inspector: Bill Hendershot | 9 5/8" | 2099' | 2099' | 923 Cu. Ft. |
| Date Permit Issued: 8-30-2011 | 5 1/2" | 13803' | 13803' | 2891 Cu. Ft. |
| Date Well Work Commenced: 11-25-2011 | | | | |
| Date Well Work Completed: 5-19-2012 | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> | | | | |
| Total Vertical Depth (ft): 6433' | | | | |
| Total Measured Depth (ft): 13803' | | | | |
| Fresh Water Depth (ft.): 200' | | | | |
| Salt Water Depth (ft.): 800' | | | | |
| Is coal being mined in area (N/Y)? N | | | | |
| Coal Depths (ft.): 589' | | | | |
| Void(s) encountered (N/Y) Depth(s) Y 590' | | | | |

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

Producing formation Marcellus Pay zone depth (ft) 6,820'-13,672'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,462* MCF/d Final open flow 207 Bbl/d
Time of open flow between initial and final tests 44 Hours *Calculated
Static rock Pressure 4,181* 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.

Mallory Williams
Signature

8-24-2012
Date

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)**Maximum TVD of wellbore: 6433 ft TVD @ 13511 ft MD**

| Formation/Lithology | Top Depth, MD (ft) | Top Depth, TVD (ft) | Bottom Depth, MD (ft) | Bottom Depth, TVD (ft) |
|---------------------|-----------------------|------------------------|--------------------------|---------------------------|
| LS/SH | 0 | 0 | 300 | 300 |
| SS/LS | 300 | 300 | 589 | 589 |
| PITTSBURG COAL | 589 | 589 | 595 | 595 |
| LS/SH/SS | 595 | 595 | 790 | 790 |
| SS | 790 | 790 | 1510 | 1510 |
| SH/SS | 1510 | 1510 | 1620 | 1620 |
| BIG LIME (LS) | 1620 | 1620 | 1646 | 1646 |
| BIG INJUN (SS) | 1646 | 1646 | 1920 | 1920 |
| SHALE | 1920 | 1920 | 6190 | 6163 |
| GENESEO (SH) | 6190 | 6163 | 6211 | 6181 |
| TULLY (LS) | 6211 | 6181 | 6264 | 6222 |
| HAMILTON (SH) | 6264 | 6222 | 6471 | 6339 |
| MARCELLUS (SH) | 6471 | 6339 | | |
| TD OF LATERAL | | | 13803 | 6428 |