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

Farm name: Michael Dunn MSH 10H  
Operator Well No.: 836175

LOCATION:  
Elevation: 1,260'  
Quadrangle: Majorsville

District: Webster  
Latitude: 38° 52'  
Feet South of  
Deg. 55  
Min. 00  
Sec.

County: Marshall  
Longitude: 79° 30'  
Feet West of  
Deg. 32  
Min. 30  
Sec.

Company: Chesapeake Appalachia, L.L.C.

<table>
<thead>
<tr>
<th>Address: P.O. Box 18496</th>
<th>Casing &amp; Tubing</th>
<th>Used in drilling</th>
<th>Left in well</th>
<th>Cement fill up Cu. Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oklahoma City, OK 73154-0496</td>
<td>20''</td>
<td>117'</td>
<td>117'</td>
<td>214 Cu. Ft.</td>
</tr>
<tr>
<td>Inspector: Derek Haught</td>
<td>9 5/8''</td>
<td>2,308'</td>
<td>2,308'</td>
<td>1,077 Cu. Ft.</td>
</tr>
<tr>
<td>Date Permit Issued: 9-28-2012</td>
<td>5 1/2''</td>
<td>14,273'</td>
<td>14,273'</td>
<td>3,473 Cu. Ft.</td>
</tr>
<tr>
<td>Date Well Work Commenced: 2-7-2013</td>
<td>Date Well Work Completed: 2-24-2013 (Rig release date)</td>
<td></td>
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</tbody>
</table>

Verbal Plugging:

Date Permission granted on:

Rotary ☑ Cable □ Rig □

Total Vertical Depth (ft): 6,875'

Total Measured Depth (ft): 14,273'

Fresh Water Depth (ft.): 330'

Salt Water Depth (ft.): 1,156'

Is coal being mined in area (Y/N)? Y

Coal Depths (ft.): 770'

Void(s) encountered (Y/N) Depth(s) N

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

Producing formation: Marcellus  
Pay zone depth (ft) not frac'd

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

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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MORGANTOWN, WV

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.

[Signature]

Date

Majorsville (77) 1-14
Were core samples taken? Yes ____ No X ____
Were cuttings caught during drilling? Yes X ____ No ____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list ________________________________

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 WELLOBRE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Estimated frac date 2/19/2014

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

See attachment

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<table>
<thead>
<tr>
<th>Formation/Lithology</th>
<th>Top Depth, MD (ft)</th>
<th>Top Depth, TVD (ft)</th>
<th>Bottom Depth, MD (ft)</th>
<th>Bottom Depth, TVD (ft)</th>
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<tbody>
<tr>
<td>SS and SH</td>
<td>0</td>
<td>0</td>
<td>560</td>
<td>560</td>
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<tr>
<td>LS and SH</td>
<td>560</td>
<td>560</td>
<td>667</td>
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<td>Pittsburgh Coal</td>
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<td>SILTSTN and SH</td>
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<td>1878</td>
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<tr>
<td>Big Lime</td>
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<td>1861</td>
<td>1946</td>
<td>1928</td>
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<tr>
<td>Big Injun</td>
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<td>1928</td>
<td>2157</td>
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<tr>
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<td>Marcellus</td>
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<td>6794</td>
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<td>Purcell</td>
<td>7084</td>
<td>6800</td>
<td>14273</td>
<td>6875</td>
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Maximum TVD of wellbore: 6875 ft TVD @ 14273 ft MD

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