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

**Farm name:** Hall  
**Operator Well No.:** 3H

**LOCATION:**  
- **Elevation:** 1320'  
- **Quadrangle:** Glen Easton 7.5'

**District:** Franklin  
**County:** Marshall

**Latitude:** 44.435  
**Feet South of 39 Deg. 47 Min. 30 Sec.**

**Longitude:** 80 Deg. 42 Min. 30 Sec.

**Company:** Gastar Exploration USA, Inc.

<table>
<thead>
<tr>
<th>Address: 229 West Main Street, Suite 301 Clarksburg, WV 26301</th>
<th>Casing &amp; Tubing: 20&quot;</th>
<th>Used in drilling</th>
<th>Left in well</th>
<th>Cement fill up Cu. Ft.</th>
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**Agent:** Michael McCown  
**Inspector:** Bill Hendershot  
**Date Permit Issued:** 8/22/2011  
**Date Well Work Commenced:** 9/20/2011  
**Date Well Work Completed:** 1/9/2012

**Verbal Plugging:**

**Date Permission granted on:**  
- Rotary [ ]  
- Cable [ ]  
- Rig [✓]

**Total Vertical Depth (ft):** 6,777'  
**Total Measured Depth (ft):** 11,888'  
**Fresh Water Depth (ft):** 60'  
**Salt Water Depth (ft):** 1,600'  
**Is coal being mined in area (N/Y)?** No  
**Coal Depths (ft):** 912 - 932: 1073 - 1083  
**Void(s) encountered (N/Y) Depth(s):** No

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

- **Producing formation** Marcellus  
- **Pay zone depth (ft):** 8,777'

- **Gas: Initial open flow** 2606 MCF/d  
- **Oil: Initial open flow** 36 Bbl/d

- **Final open flow** 3815 MCF/d  
- **Final open flow** 44 Bbl/d

- **Time of open flow between initial and final tests:** 96 Hours  
- **Static rock Pressure:** 1,550 psig (surface pressure) after 96 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.**

**Signature:**  
**Date:** 6-7-13

**Received**

**Aug - 2 2013**

**WV Dept. of Environmental Protection**

**11/22/2013**
Were core samples taken? Yes No X
Were cuttings caught during drilling? Yes No X
Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray Log

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:

See attached sheet:

Plug Back Details Including Plug Type and Depth(s): n/a

Formations Encountered: Top Depth Bottom Depth

Surface:

Sewickley Coal 912 - 932 Geneseo 6541 - 6563
Pittsburgh Coal 1073 - 1083 Tully 6563 - 6610
Maxton 2073 - 2123 Hamilton 6610 - 6740
Big Lime 2124 - 2140 Marcellus 6740 - 6777
Big Injun 2144
Base of Big Injun 2307
Weir 2445 - 2625
Berea 2645 - 2885
Gordon 2905 - 2935
Benson 3622 - 3632
Java 5244 - 5564
Rhinestreet 6097 - 6449
Cashqua 6449 - 6570
Middlesex 6570 - 6591
West River 6591 - 6651
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<th>Fluid &amp; Sand Volume Summary</th>
<th>Perforated Interval</th>
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