

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

DATE: 11/17/2011
API #: 47-085-09934

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Office of Oil & Gas
APR 19 2012
WV Department of
Environmental Protection

Farm name: Heartwood Forestland Fund IV Operator Well No.: W-1608

LOCATION: Elevation: 673' Quadrangle: MacFarlan

District: Murphy County: Ritchie
Latitude: 140 Feet South of 39 Deg. 05 Min. 00 Sec.
Longitude 8330 Feet West of 81 Deg. 07 Min. 30 Sec.

Company: Haight Energy Corporation

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
HC 68 Box 14 Smithville, WV 26178				
Agent: <u>Warren R. Haight</u>	<u>9-5/8"</u>	<u>37'</u>	<u>21'</u>	<u>To Surface</u>
Inspector: <u>David Cowan</u>	<u>7"</u>	<u>314'</u>	<u>381'</u>	<u>To Surface</u>
Date Permit Issued: <u>September 16, 2011</u>	<u>4-1/2"</u>	<u>1678'</u>	<u>1786'</u>	<u>To Surface</u>
Date Well Work Commenced: <u>9/29/2011</u>				
Date Well Work Completed: <u>11/17/2011</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>1,825'</u>				
Total Measured Depth (ft): <u>1,830'</u>				
Fresh Water Depth (ft.): <u>60'</u>				
Salt Water Depth (ft.): <u>1,400'</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>1060'</u>				
Void(s) encountered (N/Y) Depth(s) <u>None</u>				

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

Producing formation Big Injun Pay zone depth (ft) 1686' - 1700'

Gas: Initial open flow show MCF/d Oil: Initial open flow - Bbl/d

Final open flow 50 MCF/d Final open flow - Bbl/d

Time of open flow between initial and final tests 12 Hours

Static rock Pressure 250 psig (surface pressure) after 24 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.

Warren R. Haight
Signature

4/17/2012
Date

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Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Gamma Ray, Neutron, Density, Induction, Temp, Audio

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:

Perforated by Superior Well Services 10/11/2011

Perforations at: 1668' - 1694'

Fractured by Universal Well Services 11/11/2011

Foam Frac Including 257,000 cubic feet Nitrogen, 143 Bbl Water, 223 Scks 20/40 Sand

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

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface:

See attached worksheet

Starr-Lamp W-1608
 API # 47-085-09934

Formation	Top	Bottom	Remarks
Red Rock & Shale	0	275	
Sand	275	420	
Slate & Shells	420	608	
Red Rock	608	745	
Dunkard Sand	745	764	
Slate & Shells	764	802	
Gas Sand	802	821	
Slate & Shells	821	896	
Gas Sand #2	896	904	
Shale	904	1048	
Long Streak	1048	1130	
Shale	1130	1271	
1st and 2nd Salt Sands	1271	1392	
Shale	1392	1420	
3rd Salt Sand	1420	1428	
Slate & Shells	1428	1484	
Maxton	1484	1549	
Shale	1549	1559	
Big Lime	1559	1624	
Big Injun Sand	1624	1703	
Slate Break/Shale	1703	1830	
TD	1830		

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