

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Heartwood Forest Land Fund Operator Well No.: Island Creek 512335

LOCATION: Elevation: 942 Quadrangle: Holden  
District: Island Creek County: Logan  
Latitude: 10980 feet South of 37 DEG. 52 MIN. 30 SEC.  
Longitude: 5510 feet West of 82 DEG. 5 MIN. 00 SEC.

Company: Equitable Production Company  
1710 Pennsylvania Avenue  
Charleston, WV 25302

Agent: Rex C. Ray  
Inspector: Ralph Triplett  
Permit Issued: 4/1/2009  
Well Work Commenced: April 28, 2009  
Well Work Completed: October 31, 2009  
Verbal Plugging: \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh Water Depths (ft) \_\_\_\_\_  
Salt Water Depths (ft) \_\_\_\_\_  
Is coal being mined in area (Y / N) ? \_\_\_\_\_  
Coal Depths (ft) \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
4 1/2"		6951'	
All others previously reported			
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**OPEN FLOW DATA**

**Producing Formation** Lower Huron  
Gas: Initial Open Flow \_\_\_\_\_ MCF/d  
Final Open Flow \_\_\_\_\_ MCF/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig surface pressure after \_\_\_\_\_ Hours

Pay Zone  
Depth (ft) \_\_\_\_\_  
Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow \_\_\_\_\_ Bbl/d

**Second Producing Formation** \_\_\_\_\_  
Gas: Initial Open Flow \_\_\_\_\_ MCF/d  
Final Open Flow \_\_\_\_\_ MCF/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig surface pressure after \_\_\_\_\_ Hours

Pay Zone  
Depth (ft) \_\_\_\_\_  
Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow \_\_\_\_\_ Bbl/d

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

For: EQT PRODUCTION COMPANY

By: *Debra Shilling*  
Date: 5/16/13

45-02164F

Frac Lower Huron stage 1 via Packers Plus btm hyd port collar at 6793' isolated by Packers Plus RockSeal II pkr at 6575' with N2 using 1,006,100 scf. Avg rate 113,200 scfm. Max rate 115,300 scfm. Avg psi 3109. Max psi 3309. Total fluid 10.0 bbl. SD. ISIP 2246. 2 min SIP 1710 psi. Pump 4.8 bbl treated water, drop 2.00" port collar ball, and continue with 18.7 bbl treated water at 4 bpm and follow with N2 to open stage 2 port collar at 1734 psi.

Frac Lower Huron stage 2 via Packers Plus port collar at 6275' isolated by Packers Plus RockSeal II pkr at 6575' and 6140' with N2 using 1,001,900 scf. Avg rate 110,700 scfm. Max rate 114,200 scfm. Avg psi 2997. Max psi 3343. Total fluid 23.5 bbl. SD to reload ball dropper. ISIP 1907 psi. 2 min SIP 1159. 5 min SIP 902

Frac Lower Huron stage 3 via Packers Plus port collar at 5933' isolated by Packers Plus RockSeal II pkr at 6140' and 5755' with N2 using 1,006,300 scf. Avg rate 106,100 scfm. Max rate 116,200 scfm. Avg psi 2949. Max psi 4076. Total fluid 24.0 bbl. Pump 5.6 bbl treated water, drop 2.5" port collar ball, and continue with 18.1 bbl treated water at 4.0 bpm and follow with N2"

FORMATION	TOP	BOTTOM	REMARKS
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MAY 20 2013

WV Department of  
Environmental Protection

05/24/2013