

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Lynn M. Shutts Operator Well No.: HR 423

LOCATION: Elevation: 608' Quadrangle: Liverpool, WV 7.5'

District: Ravenswood County: Jackson  
Latitude: 8047' Feet South of 38 Deg. 55 Min. 00 Sec.  
Longitude 5611 Feet West of 81 Deg. 35 Min. 00 Sec.

Company: Hard Rock Exploration

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 2034 Martins Branch Road Charleston WV, 25312	20"	40'	40'	N/A
Agent: Marc Scholl	13 3/8"	84'	84'	N/A
Inspector: Jamie Stevens	9 5/8"	548'	548'	280 CuFt
Date Permit Issued: 7/20/10	7"	2080'	2080'	448 CuFt
Date Well Work Commenced: 7/27/11	4.5"	6413'	6413'	120 CuFt
Date Well Work Completed: 8/12/11				
Verbal Plugging:	Ran Gamma Log from KOP(3446' - 4335'MD)			
Date Permission granted on:	Ran Gyro log from 3000' to surface			
Rotary x Cable Rig				
Total Depth (feet): 6467'TMD, 4072'TVD				
Fresh Water Depth (ft.): 50',450'				
Salt Water Depth (ft.): 1200', 1750'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): <u>N/A</u>				

OPEN FLOW DATA

Producing formation Lower Huron Shale Pay zone depth (ft) 4053'MD- 6467'MD  
3954'TVD - 4072' TVD

Gas: Initial open flow 50 MCF/d Oil: Initial open flow          Bbl/d  
Final open flow 1400 MCF/d Final open flow          Bbl/d

Time of open flow between initial and final tests 72 Hours  
Static rock Pressure          psig (surface pressure) after          Hours

**RECEIVED**  
Office of Oil & Gas

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

SEP 15 2011

WV Department of  
Environmental Protection

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 A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:         

By: President

Date: 9/15/11

