

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

Well Operator's Report of Well Work

Farm name: Otis Cavender Family Trust Operator Well No.: HR 441

LOCATION: Elevation: 711' Quadrangle: Peniel, WV 7.5'

District: Curtis County: Roane
Latitude: 15122 Feet South of 38 Deg. 52 Min. 30 Sec.
Longitude 1407 Feet West of 81 Deg. 27 Min. 30 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				
Agent: Marc Scholl	20"	35'	35'	N/A
Inspector: Ed Gainer				
Date Permit Issued: 10/29/10	Plugged well from 500' to surface 625Sks type 1 3% CaCl			
Date Well Work Commenced: 6/23/11	After loosing Air hammer, collars and drill string in hole.			
Date Well Work Completed: 6/26/11	Plugged on 6/25/11			
Verbal Plugging:				
Date Permission granted on:				
Rotary x Cable Rig				
Total Depth (feet): 702'				
Fresh Water Depth (ft.): 60', 416'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): <u> </u> N/A <u> </u>				

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OPEN FLOW DATA

First 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

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:
Date: 9/12/2011

Formation:	Top:	Bottom:
Soil/Sand/Shale	0	200 (fresh water 60')
Sand	200	220
Shale/sand	220	380
Sand	380	470 (fresh water 416')
Shale/sand	470	570
Sand	570	580
Shale/sand	580	702'