

WR-35
Rev (5-01)

DATE: 3/4/13
API #: 47-053-00547

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

Well Operator's Report of Well Work

Farm name: Denver And Lura Casto Operator Well No.: HR 1003

LOCATION: Elevation: 918' Quadrangle: Mt Alto WV 7.5'

District: Union County: Mason
Latitude: 9392' Feet South of 38 Deg. 47 Min. 30 Sec.
Longitude 249' Feet West of 81 Deg. 52 Min. 30 Sec.

Company: Hard Rock Exploration

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>1244 Martins Branch Road</u> <u>Charleston WV, 25312</u>				
Agent: <u>Marc Scholl</u>	<u>13 3/8"</u>	<u>32'</u>	<u>32'</u>	<u>N/A</u>
Inspector: <u>Jamie Stevens</u>	<u>9 5/8"</u>	<u>795'</u>	<u>795'</u>	<u>408 ft3 CTS</u>
Date Permit Issued: <u>1/12/12</u>	<u>7"</u>	<u>2532'</u>	<u>2532'</u>	<u>574 ft3 CTS</u>
Date Well Work Commenced: <u>12/14/12</u>	<u>4.5"</u>	<u>7572'</u>	<u>7572'</u>	<u>Ft3</u>
Date Well Work Completed: <u>1/1/13</u>				
Verbal Plugging:	<u>Gamma Log from (3255'MD(kop) - 4160'MD, 3921'tvd)</u>			
Date Permission granted on:	<u>Ran Gyro Log from (3200' - Surface)</u>			
Rotary x Cable Rig				
Total Depth (feet): <u>7691'TMD, 3990'TVD</u>				
Fresh Water Depth (ft.): <u>None observed</u>				
Salt Water Depth (ft.): <u>1146', 1800'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

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OPEN FLOW DATA

Producing formation Lower Huron Shale Pay zone depth (ft) 3785' TMD - 3990' TMD
3785'TVD - 3990' TVD

Gas: Initial open flow 1000 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MMCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ 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

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: 3/5/2013

06/14/2013

<u>Formation:</u>	<u>Top:</u>	<u>Bottom:</u>
Soil/Sand/Shale	0	1747
Salt Sand	1747	1823
Big Lime	1823	1955
Injun/Squaw	1955	2108
Shale	2108	2448
Berea Sand	2448	2463
Devonian Shale	2463	3990
Lower Huron Section	3785	3990

53-00547

All depths shown As TVD

1/1/13 Run total of 181 jts of 4.5" 11.6ppf M80 R-3 4.5" casing to depth of 7566' set at 7572' KB. Run pump out guide shoe, and run 10' pup jt at 2973'. Land casing hanger, and NU wellhead and 5k 4.5" valve. MIRU Nabors. Pressure test iron and start pumping ball to pump out shoe. Pressure up to approx. 950 psi and pressure dropped indicating that shoe opened. Pressure fell back to 320 psi and held. - Produce through 4.5" casing - will test as natural producer.

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