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WV Department of
Environmental Protection

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

Well Operator's Report of Well Work

Farm Name: Canterbury, William Date: 8/16/2011
Operator Well No.: Hall #1 API #: 47-3906292

LOCATION

Elevation: 980 Quadrangle: Big Chimney
District: Elk County: Kanawha
Latitude: 38.433874 NAD 83
Longitude: 81.56325056 NAD 83

WELL INFORMATION

Company:	Reserve Oil and Gas, Inc.	Casing & Tubing:	Used in Drilling:	Left in Well:	Cement Fill up Cu. Ft.
Address:	<u>929 Charleston Road Spencer, WV 25276</u>	<u>13 3/8"</u>	<u>21.10</u>	<u>21.10</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>336.30</u>	<u>336.30</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>1938.10</u>	<u>1938.10</u>	<u>cts</u>
Date Permit Issued:	<u>4/27/2011</u>	<u>3 1/2"</u>	<u>4696.10</u>	<u>4696.10</u>	<u>145 sks</u>
Date Work Commenced:	<u>6/2/2011</u>				
Date Work Completed:	<u>7/28/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #10</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4745</u>	Total Measured Depth (FT): <u>4745</u>			
Fresh Water Depth (FT):	<u>N/A</u>				
Salt Water Depth (FT):	<u>1070</u>				
Is coal being mined in area (N/Y):	<u>No</u>				
Coal Depths (FT):	<u>N/A</u>	Void(s) Encountered (N/Y) / Depth(s): <u>N/A</u>			

OPEN FLOW DATA

Producing Formation: Devonian Shale Pay Zone Depth (FT): 2930 to 4612
 Gas Oil
 Initial Open Flow: 21 Initial Open Flow: N/A
 Final Open Flow: 146 Final Open Flow: N/A
 Time of open flow between initial and final tests: 1056 Hours.
 Static Rock Pressure: 235 PSIG (Surface Pressure) after: 24 Hours.
 2nd Producing Formation: _____ Pay Zone Depth (FT): _____ to _____
 Gas Oil
 Initial Open Flow: _____ Initial Open Flow: _____
 Final Open Flow: _____ Final Open Flow: _____
 Time of open flow between initial and final tests: _____ Hours.
 Static Rock Pressure: _____ PSIG (Surface Pressure) after: _____ Hours.

Signed: [Signature] Date: 8/16/2011

By: J. Scott Freshwater Date: _____

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.

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FORMATIONS

Formation:	From	To
Sub	0	8
Rock / Shale	8	40
Red Rock / Sand / Shale	40	250
Sand and Shale	250	1010
Salt Sand	1010	1580
Maxton	1580	1615
Little Lime	1615	1645
Big Lime	1645	1822
Injun	1822	1856
Sand and Shale	1856	2200
Coffee Shale	2200	2230
Shale	2230	4745

Water:		
Depth:	Amount:	Type:
		fresh water
1070	Damp	salt water

Gas Checks:	
Depth:	Remarks:
1000	Smell Gas
2250	Smell Gas
2761	Smell Gas

Oil Shows:	
Depth:	Remarks:

FRACTURING

Perforations:
 Stage 1:
 Number of Perforations: 43
 Depth From (FT): 3970
 Depth To (FT): 4612

Stage 2:
 Number of Perforations: 41
 Depth From (FT): 2930
 Depth To (FT): 3950

Stimulation:
 Stage 1:
 Remarks:
 Total N2 = 10019 c-scf, Total 15% HCL Treatment Fluid = 500 gallons, Total Ferrotrol 300L = 6 gallons, Total 7/8 inch 1.3 sg ball sealers = 12

Stage 2:
 Remarks:
 Did not frac second stage

Were Core Samples Taken (N/Y): No
 Were Cuttings Caught During Drilling (N/Y): No
 Were Geophysical Logs Recorded on This Well (N/Y): Yes
 Electrical (N/Y): Yes
 Mechanical (N/Y): Yes

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