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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: Danielson, Robert Date: 6/8/2011  
Operator/Well No.: Danielson #2 API #: 47-3906276

**LOCATION**

Elevation: 1182 Quadrangle: Big Chimney  
District: Elk County: Kanawha  
Latitude: 38.4259502 NAD 27  
Longitude: 81.5845298 NAD 27

**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>21.00</u>	<u>21.00</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>335.55</u>	<u>335.55</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>2149.55</u>	<u>2149.55</u>	<u>cts</u>
Date Permit Issued:	<u>10/29/2010</u>	<u>4 1/2"</u>	<u>4870.85</u>	<u>4870.85</u>	<u>140 sks</u>
Date Work Commenced:	<u>11/11/2010</u>				
Date Work Completed:	<u>1/19/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #2</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4894</u>	Total Measured Depth (FT):			<u>4894</u>
Fresh Water Depth (FT):	<u>46</u>				
Salt Water Depth (FT):	<u>1315</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:	<u>Devonian Shale</u>	Pay Zone Depth (FT):	<u>2999</u>	to	<u>4859</u>
Gas		Oil			
Initial Open Flow:	<u>26</u>	Initial Open Flow:	<u>N/A</u>		
Final Open Flow:	<u>207</u>	Final Open Flow:	<u>N/A</u>		
Time of open flow between initial and final tests:	<u>1536</u> Hours.				
Static Rock Pressure:	<u>495</u>	PSIG (Surface Pressure) after:	<u>24</u> 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.		

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Signed: J. Scott Freshwater Date: 6/8/11  
By: J. Scott Freshwater

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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 Continued

**FORMATIONS**

Formation:	From	To
Sub	0	10
Sand and Shale	10	31
Sand and Shale	31	357
Sand and Shale	357	974
Salt Sand	974	1098
Salt Sand	1098	1624
Salt Sand	1624	1800
Maxton	1800	1855
Little Lime	1855	1885
Little Lime	1885	1890
Big Lime	1890	2060
Injun	2060	2100
Injun	2100	2105
Shale	2105	2185
Shale	2185	2679
Shale	2679	3710
Shale	3710	4551
Shale	4551	4894

Water:		
Depth:	Amount:	Type:
46	damp	fresh water
1315	damp	salt water

Gas Checks:	
Depth:	Remarks:
3710	smell gas

Oil Shows:	
Depth:	Remarks:

**FRACTURING**

<b>Perforations:</b>		<b>Stimulation:</b>	
Stage 1:		Stage 1:	
Number of Perforations:	<u>60</u>	Remarks:	
Depth From (FT):	<u>3980</u>	Total N2 = 1,002,364 SCF, Total 15% HCL Treatment Fluid	
Depth To (FT):	<u>4859</u>	= 1,008 Gallons, Total 7/8 inch 1.3 sp gr R ball sealers = 81 in	
		9 stages	
Stage 2:		Stage 2:	
Number of Perforations:	<u>52</u>	Remarks:	
Depth From (FT):	<u>2999</u>	Total N2 = 1,002,256 SCF, Total 15% HCL Treatment Fluid	
Depth To (FT):	<u>4526</u>	= 1,008 Gallons, Total 7/8 inch 1.3 sp gr R ball sealers = 80 in	
		10 stages	

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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