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

Well Operator's Report of Well Work

Farm Name: Settle, Bobby Date: 11/17/2011
 Operator Well No.: Settle #1 API #: 47-3906297

LOCATION			
Elevation:	<u>990</u>	Quadrangle:	<u>Big Chimney</u>
District:	<u>Elk</u>	County:	<u>Kanawha</u>
Latitude:	<u>38.40726</u>	NAD 83	
Longitude:	<u>81.601569</u>	NAD 83	

WELL INFORMATION					
Company:	<u>Reserve Oil and Gas, Inc.</u>	Casing &	Used in	Left in	Cement Fill up
Address:	<u>929 Charleston Road</u>	Tubing:	Drilling:	Well:	Cu. Ft.
	<u>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>335.60</u>	<u>335.60</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>2030.80</u>	<u>2030.80</u>	<u>cts</u>
Date Permit Issued:	<u>6/24/2011</u>	<u>4 1/2"</u>	<u>4668.40</u>	<u>4668.40</u>	<u>130 sks</u>
Date Work Commenced:	<u>7/21/2011</u>				
Date Work Completed:	<u>9/2/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #10</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4707</u>	Total Measured Depth (FT): <u>4707</u>			
Fresh Water Depth (FT):	<u>60</u>				
Salt Water Depth (FT):	<u>850</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>2948</u>	to	<u>4644</u>
Gas		Oil			
Initial Open Flow:	<u>21</u>	Initial Open Flow:	<u>N/A</u>		
Final Open Flow:	<u>283</u>	Final Open Flow:	<u>N/A</u>		
Time of open flow between initial and final tests:	<u>552</u> Hours.				
Static Rock Pressure:	<u>465</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.			

Signed: [Signature] Date: 11/17/11
 By: J. Scott Freshwater

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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	8
Sand and Shale	8	1135
Salt Sand	1135	1680
Maxton	1680	1705
Little Lime	1705	1735
Big Lime	1735	1935
Injun	1935	1965
Shale	1965	2300
Coffee Shale	2300	2320
Shale	2320	4707

Water:		
Depth:	Amount:	Type:
60	damp	fresh water
850		salt water
1380	big water	salt water

Gas Checks:	
Depth:	Remarks:
3700	gas show

Oil Shows:	
Depth:	Remarks:

FRACTURING

Perforations:
 Stage 1:
 Number of Perforations: 40
 Depth From (FT): 3776
 Depth To (FT): 4644

 Stage 2:
 Number of Perforations: 37
 Depth From (FT): 2948
 Depth To (FT): 3693

Stimulation:
 Stage 1:
 Remarks:
 Total N2 = 1,004,537 SCF, Total N2 ASSIT 15% HCL
 Treatment Fluid = 504 gallons, Ferrotrol 300L = 3 gallons,
 NE-900 = 2 gallons, Gas Flo G 330 = 1 gallon, CI-14 = 1 1/2
 gallons, Total 7/8 in. 1.3 sp gr. R ball sealers = 60 in 8 stages.
 Stage 2:
 Remarks:
 Total N2 = 1,002,026 SCF, Total 15% HCL Treatment Fluid
 = 504 gallons, Total N2 ASSIT 15% HCL Treatment Fluid =
 504 gallons, Ferrotrol 300L = 3 gallons, NE-900 = 2 gallons,
 Gas Flo G 330 = 1 gallon, CI-14 = 1 1/2 gallons, Total 7/8 in.
 1.3 sp gr. R ball sealers = 38 in 7 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