

AUG 18 2011

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

Firm Name: Legg, Herman Date: 8/16/2011
Operator Well No.: Robertson #2 API #: 47-3906293

LOCATION

Elevation: 800 Quadrangle: Big Chimney
District: Elk County: Kanawha
Latitude: 38.4289313 NAD 83
Longitude: 81.5637814 NAD 83

WELL INFORMATION

Company:	Casing & Tubing:	Used in Drilling:	Left in Well:	Cement Fill up
<u>Reserve Oil and Gas, Inc.</u>	<u>13 3/8"</u>	<u>21.00</u>	<u>21.00</u>	<u>Cu. Ft.</u>
<u>Address: 929 Charleston Road Spencer, WV 25276</u>	<u>9 5/8"</u>	<u>379.05</u>	<u>379.05</u>	<u>cts</u>
<u>Agent: J. Scott Freshwater</u>	<u>7"</u>	<u>1775.20</u>	<u>1775.20</u>	<u>cts</u>
<u>Inspector: Terry Urban</u>	<u>4 1/2"</u>	<u>4577.45</u>	<u>4577.45</u>	<u>cts</u>
<u>Date Permit Issued: 5/12/2011</u>				<u>120 sks</u>
<u>Date Work Commenced: 6/23/2011</u>				
<u>Date Work Completed: 7/29/2011</u>				
<u>Verbal Plugging:</u>				
<u>Date Permission Granted:</u>				
<u>Rotary Rig: CSi Rig #10</u>				
<u>Cable Rig:</u>				
<u>Total Vertical Depth (FT): 4615</u>	<u>Total Measured Depth (FT): 4615</u>			
<u>Fresh Water Depth (FT): 46</u>				
<u>Salt Water Depth (FT): 1100</u>				
<u>Is coal being mined in area (N/Y): No</u>				
<u>Coal Depths (FT): N/A</u>	<u>Void(s) Encountered (N/Y) / Depth(s): N/A</u>			

OPEN FLOW DATA

Producing Formation: Devonian Shale Pay Zone Depth (FT): 2959 to 4546
Gas
Oil
Initial Open Flow: 32 Initial Open Flow: N/A
Final Open Flow: 318 Final Open Flow: N/A
Time of open flow between initial and final tests: 408 Hours.
Static Rock Pressure: 395 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

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	7
Sand and Shale	7	843
Salt Sand	843	1250
Maxton	1250	1452
Little Lime	1452	1490
Big Lime	1490	1650
Injun	1650	1680
Sand and Shale	1680	2088
Coffee Shale	2088	2098
Shale	2098	4615

Water:		
Depth:	Amount:	Type:
46	Damp	Fresh water
1100	Damp	Salt water

Gas Checks:	
Depth:	Remarks:
2040	Smell gas
2360	Smell gas
4200	Smell gas
4300	Smell gas
4400	Smell gas
4500	Smell gas
4600	Smell gas

Oil Shows:	
Depth:	Remarks:
843	gas and oil

FRACTURING

Perforations:

Stage 1:
 Number of Perforations: 40
 Depth From (FT): 3800
 Depth To (FT): 4546

Stage 2:
 Number of Perforations: 40
 Depth From (FT): 2959
 Depth To (FT): 3709

Stimulation:
Stage 1:
 Remarks: Total N2 = 1,003,481 SCF, Total 15 % HCL Treatment Fluid = 504 gallons, Total Ferrotrol 300L = 3 gallons, Total NE-900 = 1 gallon, Total GasFlo G = 1 gallon, Total CI-14 = 1 1/2 gallons, Total 7/8 in. 1.3 sp gr R ball sealers = 51 in 8 stages.

Stage 2:
 Remarks: Total N2 = 1,003,766 SCF, Total 15 % HCL Treatment Fluid = 1,008 gallons, Total Ferrotrol 300L = 3 gallons, Total NE-900 = 1 gallon, Total GasFlo G = 1 gallon, Total CI-14 = 1 1/2 gallon, Total 7/8 in. 1.3 sp gr R ball sealers = 42 in 8

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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