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 WV Department of Environmental Protection

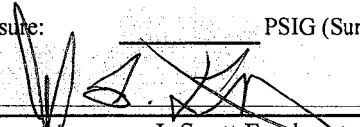
State of West Virginia
 Department of Environmental Protection
 Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Smith, Mitchell Date: 11/17/2011
 Operator Well No.: Broome #1 API #: 47-3906310

LOCATION			
Elevation:	<u>614</u>	Quadrangle:	<u>Big Chimney</u>
District:	<u>Elk</u>	County:	<u>Kanawha</u>
Latitude:	<u>38.4456346</u>	NAD 83	
Longitude:	<u>81.5253545</u>	NAD 83	

WELL INFORMATION					
Company:	<u>Reserve Oil and Gas, Inc.</u>	Casing & Tubing:	Used in Drilling:	Left in Well:	Cement Fill up
Address:	<u>929 Charleston Road Spencer, WV 25276</u>	<u>13 3/8"</u>	<u>28.00</u>	<u>28.00</u>	<u>Cu. Ft.</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>209.65</u>	<u>209.65</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>1603.15</u>	<u>1603.15</u>	<u>cts</u>
Date Permit Issued:	<u>8/18/2011</u>	<u>4 1/2"</u>	<u>4306.85</u>	<u>4306.85</u>	<u>115 sks</u>
Date Work Commenced:	<u>8/30/2011</u>				
Date Work Completed:	<u>10/6/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #10</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4365</u>	Total Measured Depth (FT): <u>4365</u>			
Fresh Water Depth (FT):	<u>154</u>				
Salt Water Depth (FT):	<u>305</u>				
Is coal being mined in area (N/Y):	<u>No</u>				
Coal Depths (FT):	<u>300-303</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>2835</u> to <u>4286</u>
Gas		Oil	
Initial Open Flow:	<u>21</u>	Initial Open Flow:	<u>N/A</u>
Final Open Flow:	<u>404</u>	Final Open Flow:	<u>N/A</u>
Time of open flow between initial and final tests:			<u>720</u> Hours.
Static Rock Pressure:	<u>495</u> PSIG (Surface Pressure) after:		<u>24</u> Hours.
2nd Producing Formation:		Pay Zone Depth (FT):	
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:			<u>11/17/11</u>

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By: J. Scott Freshwater Date: 11/17/11

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
Blue Clay	7	15
Rock	15	28
Sand & Shale	28	300
Coal	300	303
Sand & Shale	303	750
Salt Sand	750	1250
Maxton	1250	1280
Little Lime	1280	1315
Big Lime	1315	1490
Injun	1490	1522
Sand & Shale	1522	1875
Coffee Shale	1875	1905
Shale	1905	4365

Water:		
Depth:	Amount:	Type:
154	3-4" stream	freshwater
305	soap on hole	saltwater

Gas Checks:	
Depth:	Remarks:

Oil Shows:	
Depth:	Remarks:

FRACTURING

Perforations:

Stage 1:

Number of Perforations: 40
 Depth From (FT): 3790
 Depth To (FT): 4286

Stage 2:

Number of Perforations: 40
 Depth From (FT): 2835
 Depth To (FT): 3717

Stimulation:

Stage 1:

Remarks:
 Total N2 = 1,004,663 SCF, total 15% HCL treatment fluid = 504 gallons, total Ferrotrol 300L = 3 gallons, total NE-900 = 1 gallon, total GasFlo G 330 = 1 gallon, total CI-14 = 1.5 gallons, total 7/8 in 1.3 sp gr R ball sealers = 61 in 10 stages

Stage 2:

Remarks:
 Total N2 = 1,003,553 SCF, total 15% HCL treatment fluid = 1,008 gallons, total Ferrotrol 300L = 3 gallons, total NE-900 = 1 gallon, total GasFlo G 330 = 1 gallon, total CI-14 = 1.5 gallons, total 7/8 in 1.3 sp gr R ball sealers = 74 in 9 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