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

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Well Operator's Report of Well Work

Farm Name: Gunnoe, Earl R. Date: 2/17/2012
Operator Well No.: Gunnoe #1 API #: 47-3906323

LOCATION

Elevation: 954 Quadrangle: Big Chimney
District: Elk County: Kanawha
Latitude: 38.40865498 NAD 83
Longitude: 81.58056004 NAD 83

WELL INFORMATION

Company:	Reserve Oil and Gas, Inc.	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>21.00</u>	<u>21.00</u>	<u>Cu. Ft.</u>
Agent:	<u>J. Scott Freshwater</u>	<u>9 5/8"</u>	<u>335.75</u>	<u>335.75</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>7"</u>	<u>1971.60</u>	<u>1971.60</u>	<u>cts</u>
Date Permit Issued:	<u>10/24/2011</u>	<u>4 1/2"</u>	<u>4636.55</u>	<u>4636.55</u>	<u>150 sks</u>
Date Work Commenced:	<u>11/4/2011</u>				
Date Work Completed:	<u>11/30/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #10</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4677</u>	Total Measured Depth (FT): <u>4677</u>			
Fresh Water Depth (FT):	<u>46</u>				
Salt Water Depth (FT):	<u>1280</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>2898</u>	to	<u>4632</u>
Gas		Oil			
Initial Open Flow:	<u>23.5</u>	Initial Open Flow:	<u>N/A</u>		
Final Open Flow:	<u>382</u>	Final Open Flow:	<u>N/A</u>		
Time of open flow between initial and final tests:	<u>480</u> Hours.				
Static Rock Pressure:	<u>521</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: J. Scott Freshwater Date: 17 Feb 12
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
Rock / Shale	7	852
Salt Sand	852	1620
Maxton	1620	1650
Little Lime	1650	1690
Big Lime	1690	1865
Injun	1865	1900
Shale	1900	2210
Coffee Shale	2210	2235
Shale	2235	4677

Water:		
Depth:	Amount:	Type:
46	damp	fresh water
1280	switch to fluid	salt water

Gas Checks:	
Depth:	Remarks:
2280	smell gas

Oil Shows:	
Depth:	Remarks:

FRACTURING

Perforations:
Stage 1:
Number of Perforations: 3837
Depth From (FT): 4632
Depth To (FT): 40

Stimulation:
Stage 1:
Remarks:
Total N2 = 1,002,106 SCF, Total 15% HCL Treatment Fluid = 420 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 = 46 in 1 stage

Stage 2:
Number of Perforations: 2898
Depth From (FT): 3722
Depth To (FT): 40

Stage 2:
Remarks:
Total N2 = 997,981 SCF, Total 15% HCL Treatment Fluid = 998 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 = 47 in 1 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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