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JUN 09 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

Well Name: Arthur, Richard A. Date: 6/8/2011  
Operator Well No.: Arthur #2 API #: 47-3906277

LOCATION	
Elevation:	<u>1087</u>
District:	<u>Elk</u>
Latitude:	<u>38.411789</u>
Longitude:	<u>81.593451</u>
Quadrangle:	<u>Big Chimney</u>
County:	<u>Kanawha</u>
	<u>NAD 27</u>
	<u>NAD 27</u>

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</u>	<u>13 3/8"</u>	<u>21.00</u>	<u>21.00</u>	<u>cts</u>
	<u>Spencer, WV 25276</u>	<u>9 5/8"</u>	<u>335.80</u>	<u>335.80</u>	<u>cts</u>
Agent:	<u>J. Scott Freshwater</u>	<u>7"</u>	<u>2065.15</u>	<u>2065.15</u>	<u>cts</u>
Inspector:	<u>Terry Urban</u>	<u>4 1/2"</u>	<u>4743.85</u>	<u>4743.85</u>	<u>135 sks</u>
Date Permit Issued:	<u>11/10/2010</u>				
Date Work Commenced:	<u>11/22/2010</u>				
Date Work Completed:	<u>2/2/2011</u>				
Verbal Plugging:					
Date Permission Granted:					
Rotary Rig:	<u>CSi Rig #2</u>				
Cable Rig:					
Total Vertical Depth (FT):	<u>4800</u>	Total Measured Depth (FT): <u>4800</u>			
Fresh Water Depth (FT):	<u>46</u>				
Salt Water Depth (FT):	<u>880</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>2928</u> to <u>4724</u>
Gas:		Oil:	
Initial Open Flow:	<u>21</u>	Initial Open Flow:	<u>N/A</u>
Final Open Flow:	<u>435</u>	Final Open Flow:	<u>N/A</u>
Time of open flow between initial and final tests:			<u>1344</u> Hours.
Static Rock Pressure:	<u>539</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.

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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 & Shale	10	358
Red Rock	358	370
Shale	370	880
Salt Sand	880	1680
Maxton	1680	1800
Little Lime	1800	1840
Big Lime	1840	2000
Injun	2000	2040
Shale	2040	2350
Coffee Shale	2350	2370
Shale	2370	4800

Water:		
Depth:	Amount:	Type:
46	damp	fresh water
880	wet	salt water
1510	big water	salt water

Gas Checks:	
Depth:	Remarks:

Oil Shows:	
Depth:	Remarks:

**FRACTURING**

Perforations:		Stimulation:	
Stage 1:		Stage 1:	
Number of Perforations:	<u>58</u>	Remarks:	Total N <sub>2</sub> = 1,000,965 SCF, total 15% HCL Treatment Fluid =
Depth From (FT):	<u>3922</u>		945 gallons, total 7/8 inch 1.3 sp gr R ball sealers = 84 in 9
Depth To (FT):	<u>4724</u>		stages
Stage 2:		Stage 2:	
Number of Perforations:	<u>60</u>	Remarks:	Total N <sub>2</sub> = 1,002,565 SCF, total 15% HCL Treatment Fluid =
Depth From (FT):	<u>2928</u>		974 gallons, total 7/8 inch 1.3 sp gr R ball sealers = 90 in 9
Depth To (FT):	<u>3884</u>		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