

PHOENIX SURVEYS, INC.					
COMPLETED INDUCTION HIGH RESOLUTION NUCLEONICS					
Company		EnCana Oil & Gas (USA) Inc.			
Well		Foster 8-8-5			
Field		Wattenberg			
County		Weld		State/Province Colorado	
City/State/Prv					
Location		G/L		Elevation	
Drilling Method From		K/B			
Drilling Method From		X/B			
Date		April 20, 2011			
Run Number		1			
Depth Driver		3555			
Log Depth Interval		50'/8"			
Top Log Interval		Casing			
Casing Diameter		1005			
Casing Logger		1005			
Type Fluid in Hole		Chem Gel			
Density / Viscosity		9.4 / 55			
pH / Fluid Loss		8.0 / 100			
SRT @ Meas. Temp		3.43 @ 52° F			
Rint @ Meas. Temp		2.74 @ 52° F			
Flow @ Meas. Temp		4.12 @ 52° F			
Source of SMT / RMC		Mesacon / C&C			
Time Circulation Stopped		1719:42Z			
Time Logged on Bottom		04:20			
Maximum Recorded Temperature		225° F			
Location		Brimmon, CO			
Recorded By		Matt Gail			
Witnessed By		Was Harrington			

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or completeness of our interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are subject to our general terms and conditions set out in our current Price Schedule.

Comments

Annular volume calculated for 4.5" casing
 Ensign Drilling Rig 122
 Thank you for using Phoenix Surveys!!
 API #: 05-123-3124-00

Database File:	11585.db
Dataset Pathname:	final
Presentation Format:	encana1
Dataset Creation:	Sat Apr 23 05:09:45 2011
Charted by:	Depth in Feet scaled 1:240

2 Deep Resistivity (Ohm-m)
2 Medium Resistivity (Ohm-m)
2 Shallow Resistivity (Ohm-m)
2 Rt (Ohm-m)

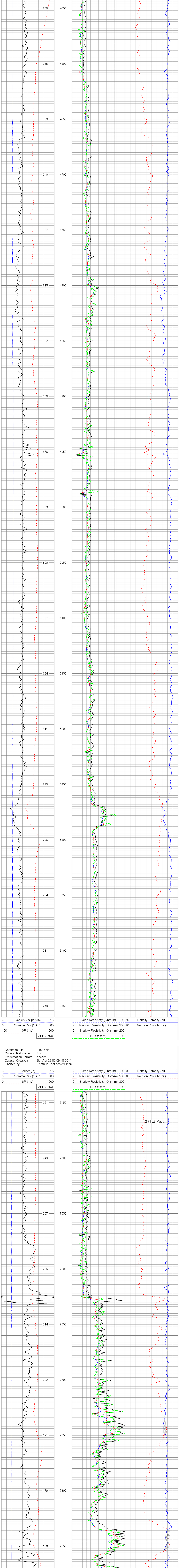



Figure 1 consists of two side-by-side plots. The left plot shows a single black curve representing the Lyapunov exponent λ as a function of α . The curve starts at a high value for small α , decreases, and then exhibits a series of sharp, irregular oscillations before rising sharply towards $\alpha = 1$. A vertical dashed blue line is at $\alpha = 0$, and a dashed red line is at $\alpha = 1$. The right plot shows the same data as the left plot, but with multiple colored curves (black, green, red, blue) representing different realizations or parameters. The curves follow a similar trend but with varying degrees of oscillation and amplitude. The same vertical dashed lines are present.

