NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well CANNON RED W03-04D
Field WATTENBERG
County WELD
State COLORADO

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Well CANNON RED W03-04D
Field WATTENBERG
County WELD **State** COLORADO

Location: API #: 0512316278
SE/NE/SE
SEC 3 TWP 2N RGE 66W

Other Services

Permanent Datum	GL	Elevation	5000
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5011
D.F.
G.L. 5000

Date	APRIL 23, 2013		
Run Number	ONE		
Depth Driller	8216		
Depth Logger	7323		
Bottom Logged Interval	7322		
Top Log Interval	3847		
Open Hole Size	7-7/8		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.			
Estimated Cement Top	5430		
Time Well Ready	ENSIGN RIG		
Time Logger on Bottom	1-11/16 RED TOOL		
Equipment Number	4838		
Location	45		
Recorded By	GREG NOLAN		
Witnessed By	PETE BURNS		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	3-1/2			
Liner				

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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 correctness of any 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 also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR CHOOSING NCPS!!!!
LOG CORRELATED TO SCHLUMBERGER CEMENT BOND LOG DATED 12-12-92
WCR 31, & WCR 22, N.5, E.3, N INTO

Database File:	cbl noble pet.db
Dataset Pathname:	pass4
Presentation Format:	nuexcbl
Dataset Creation:	Wed Apr 24 10:13:34 2013 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

30 CCL -3.3

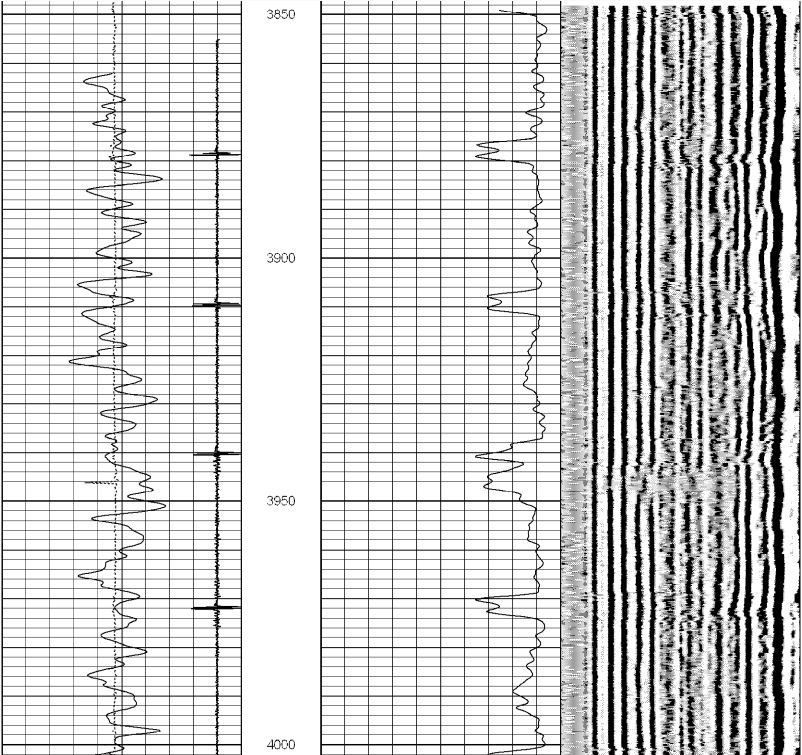
30 Gamma Ray (GAPI) 130

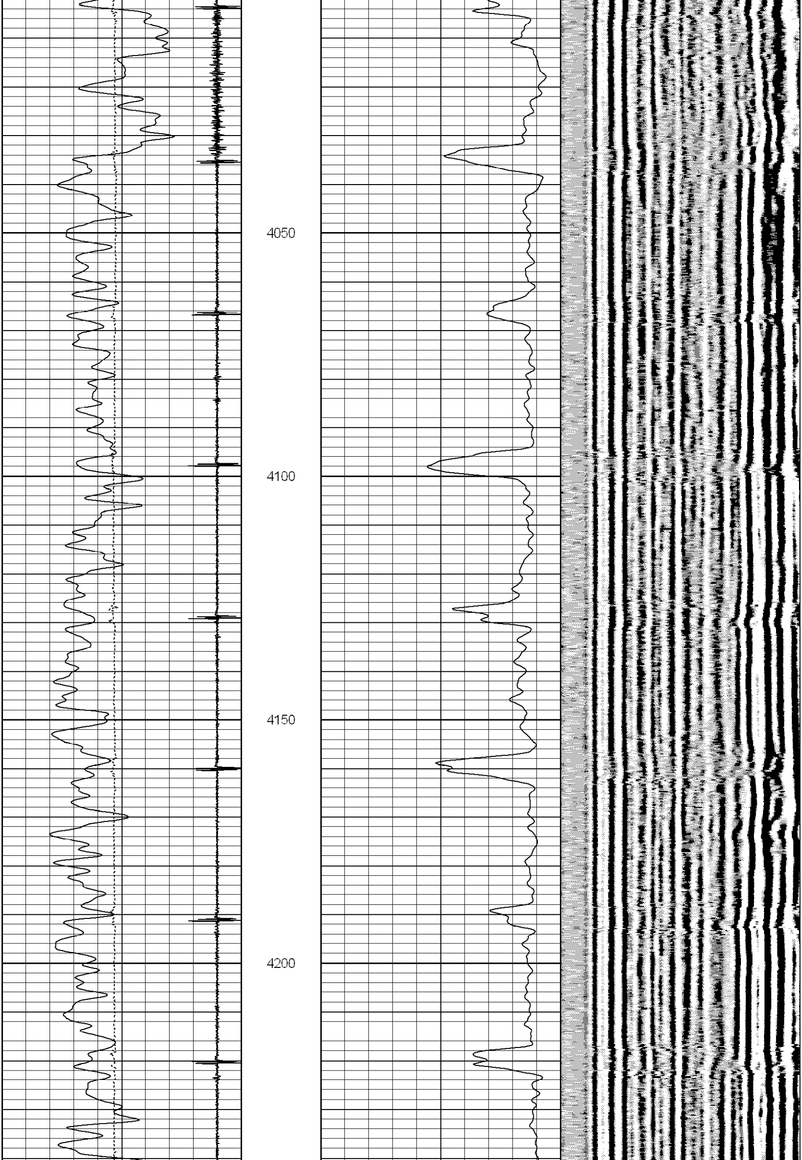
400 TT3 (usec) 0

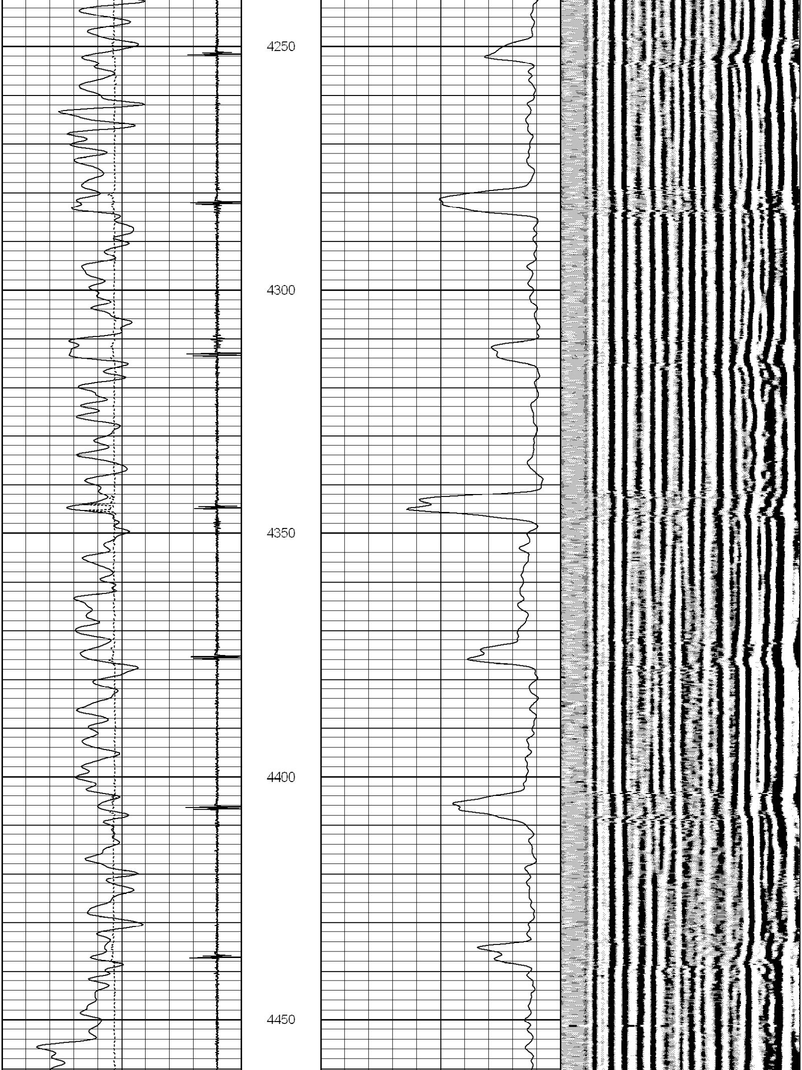
0 Amplified Amplitude (mV) 30

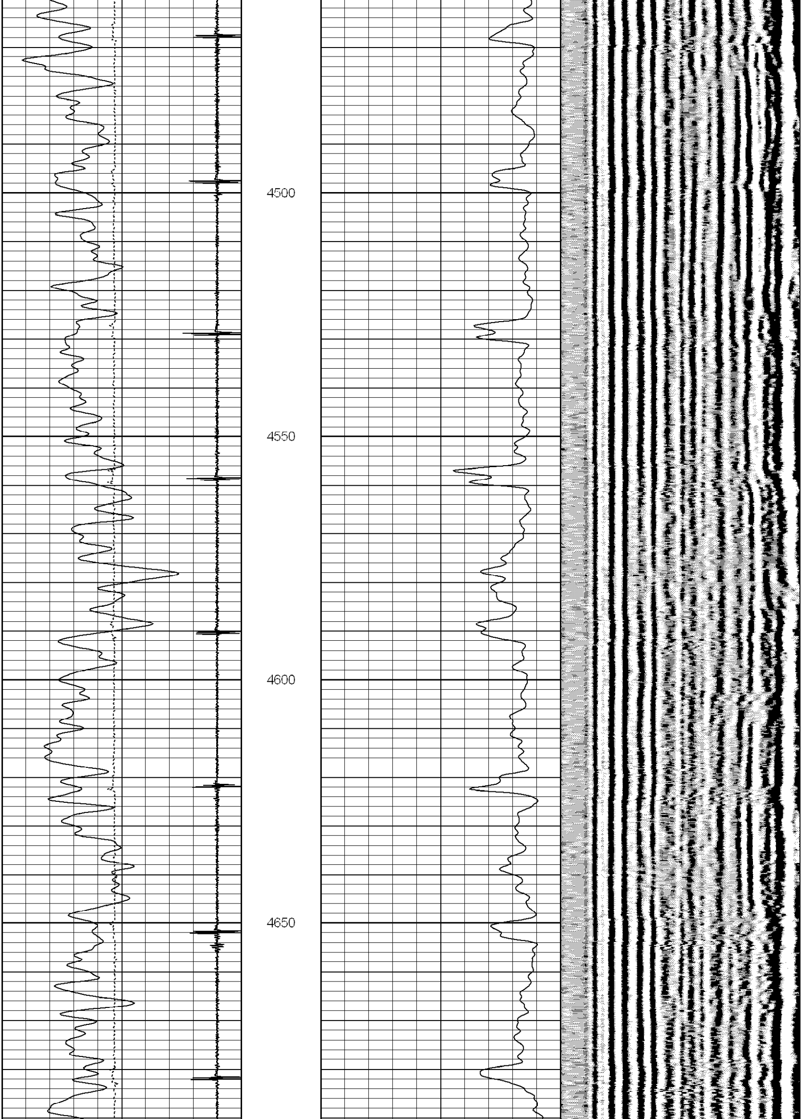
0 Amplitude (mV) 100

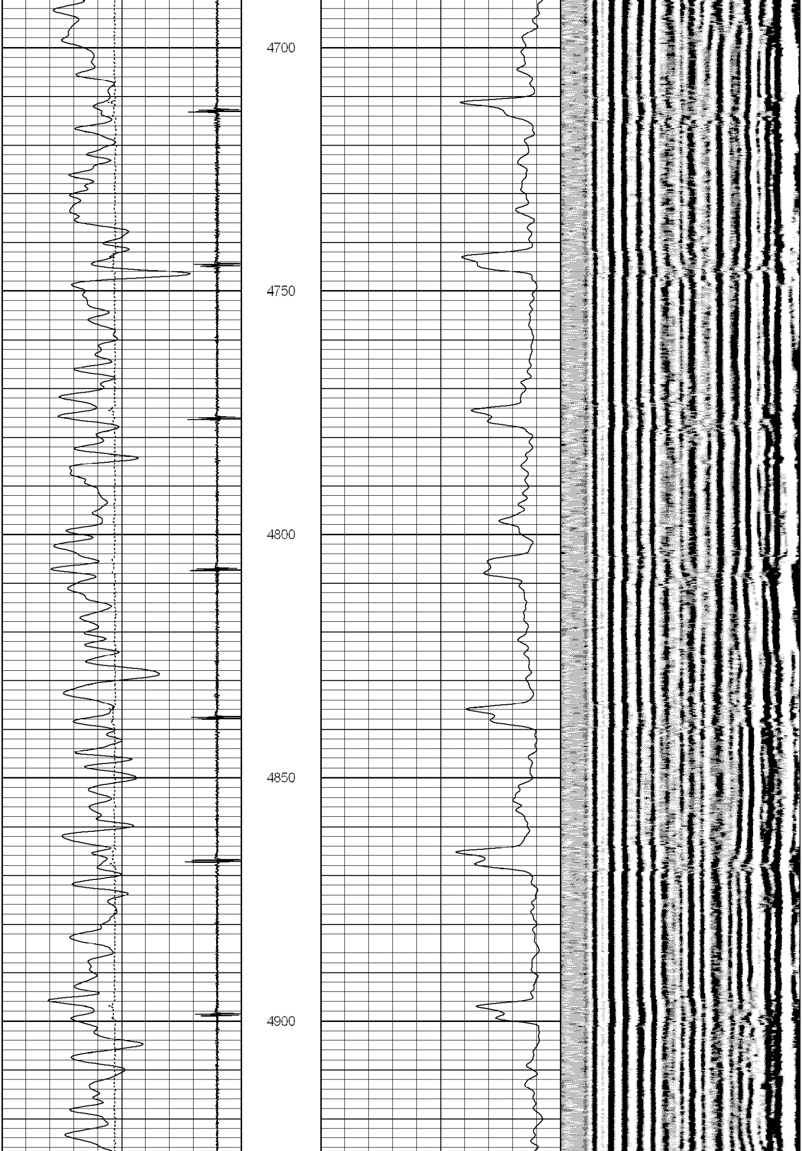
200 Variable Density 1200

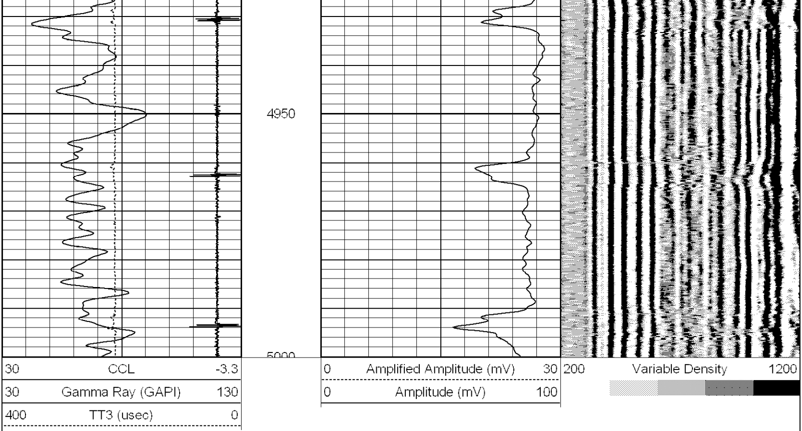




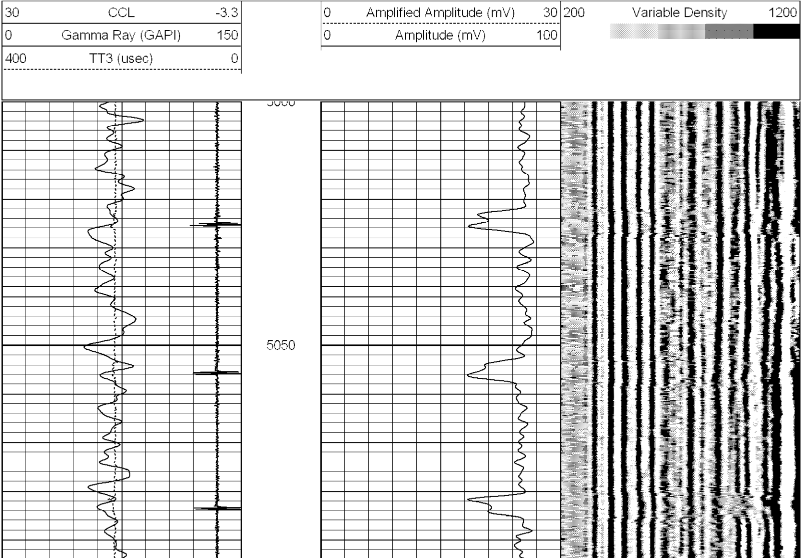


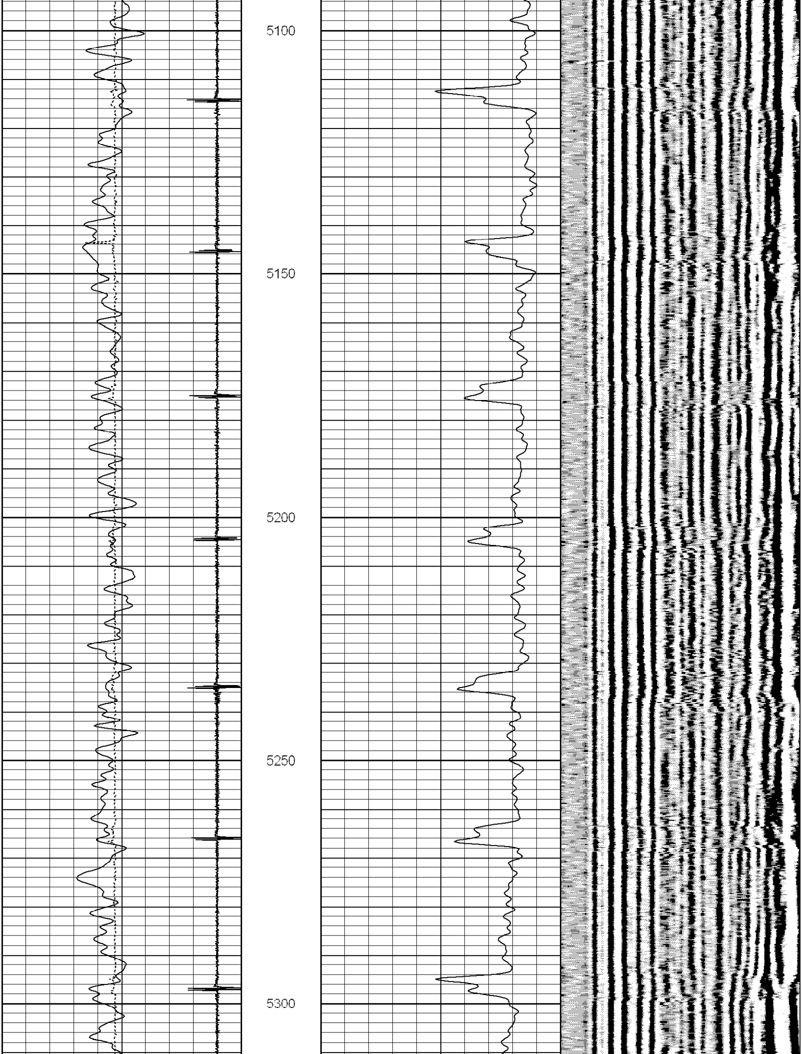


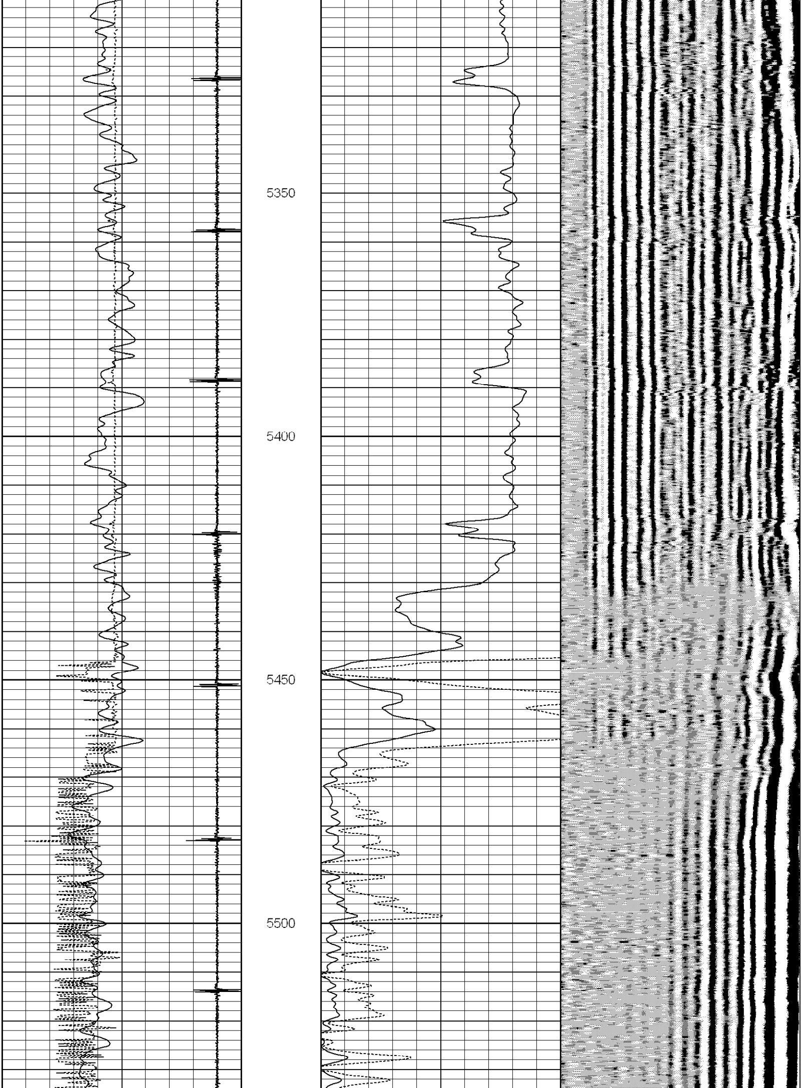


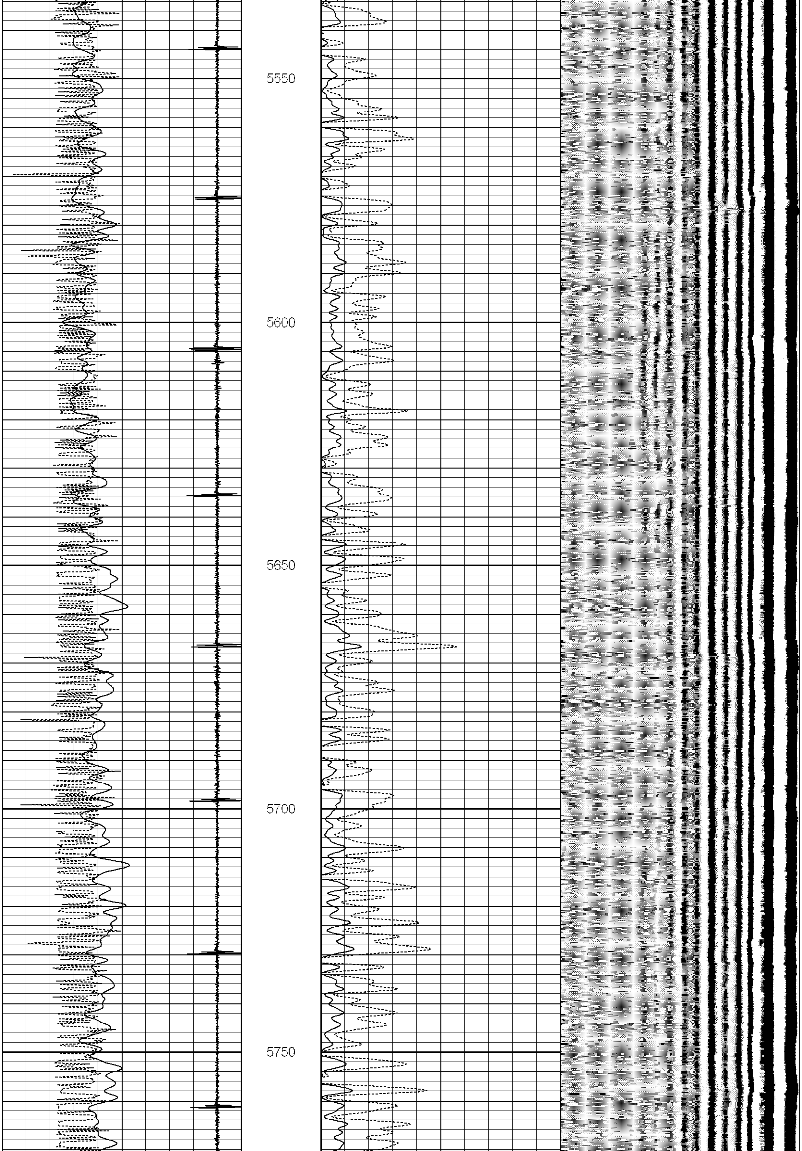


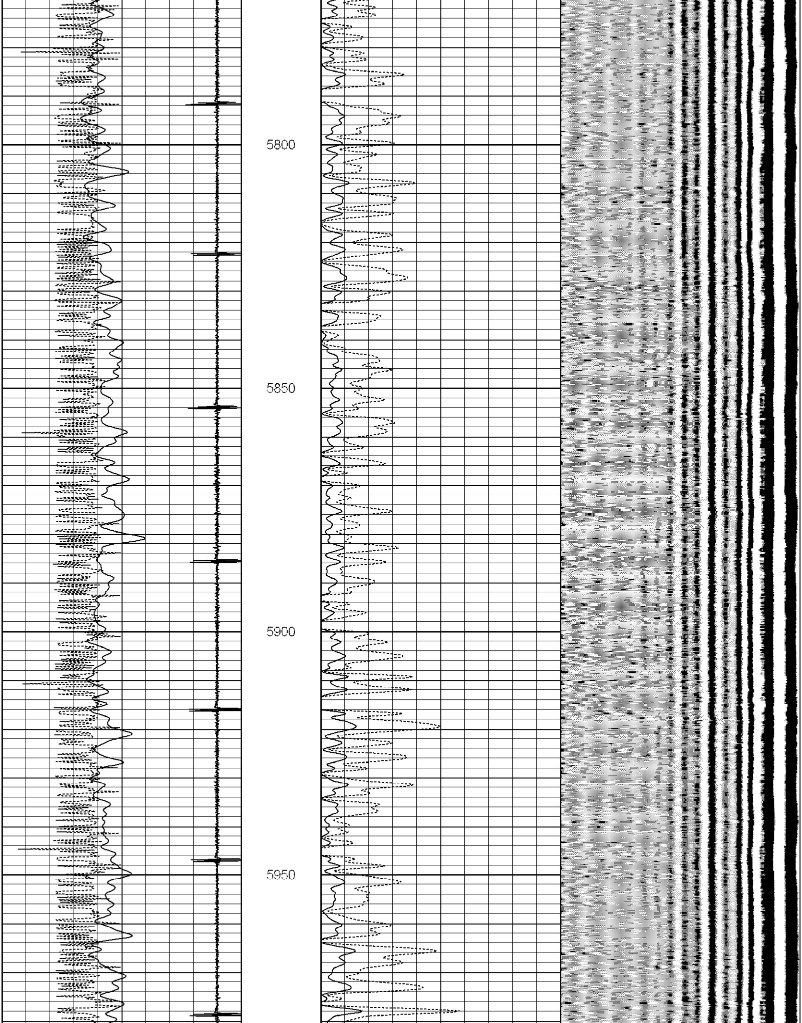
Database File: cbl noble pet.db
Dataset Pathname: pass3
Presentation Format: nuexcbl
Dataset Creation: Wed Apr 24 09:47:44 2013 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

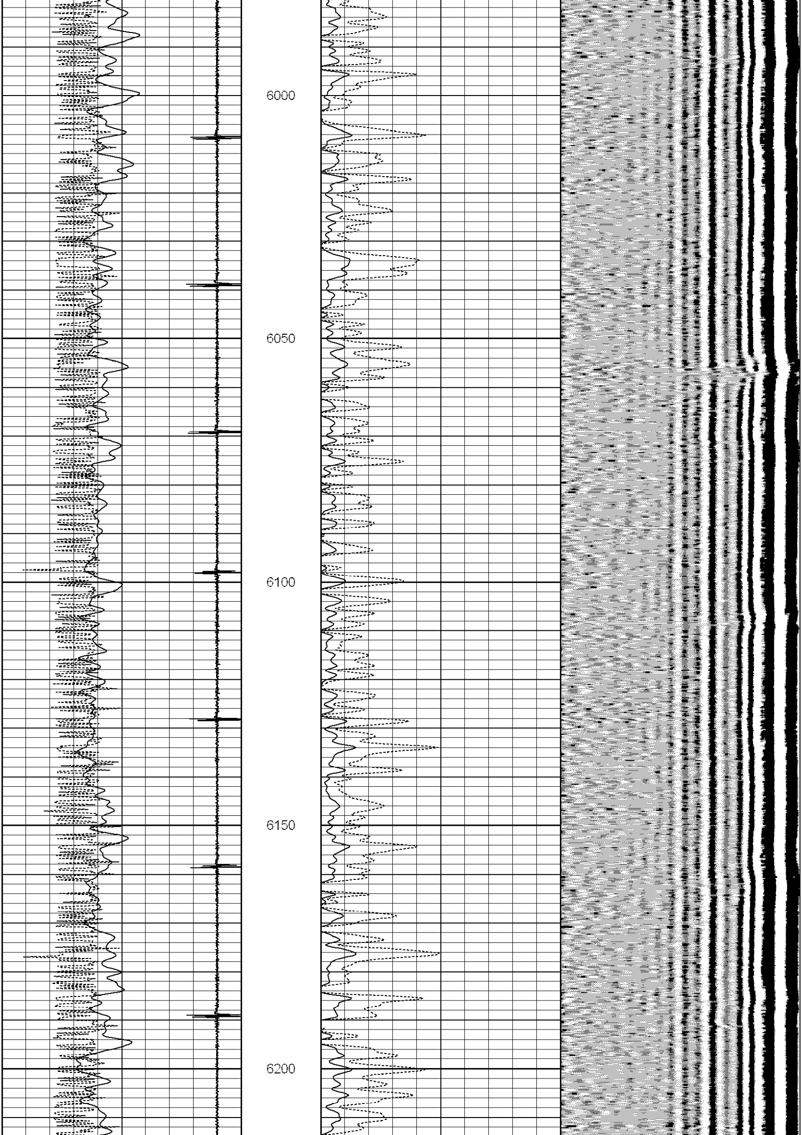


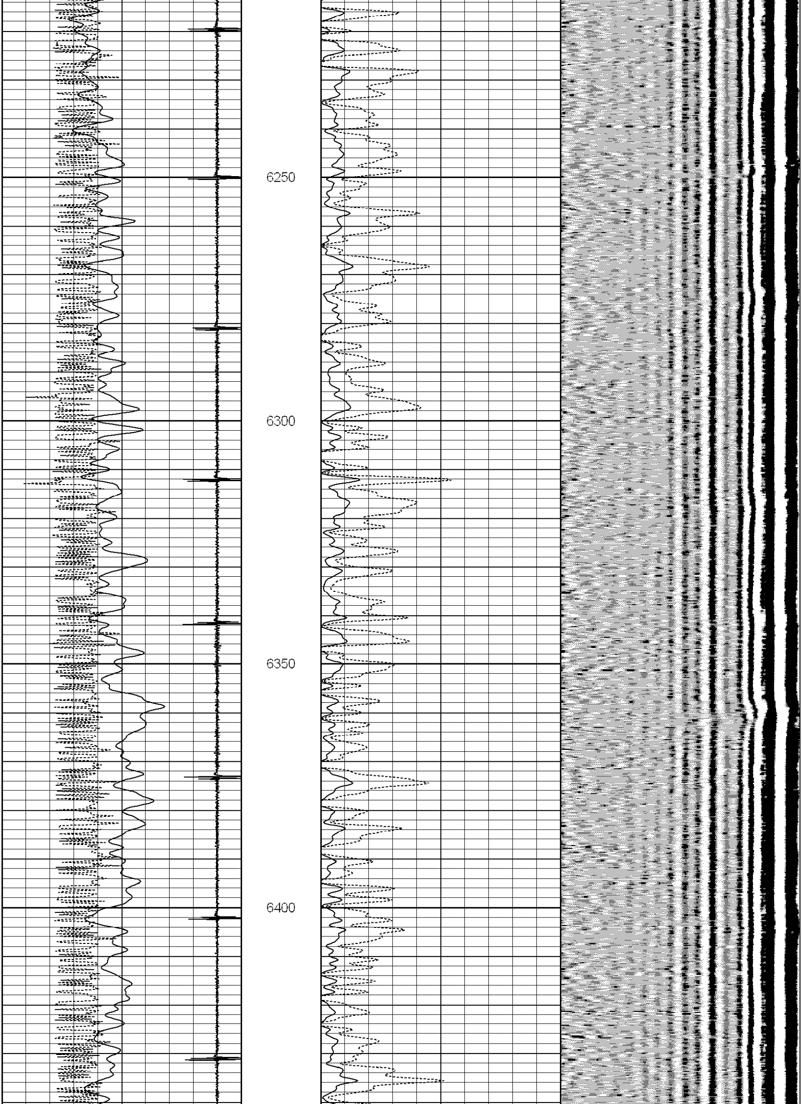


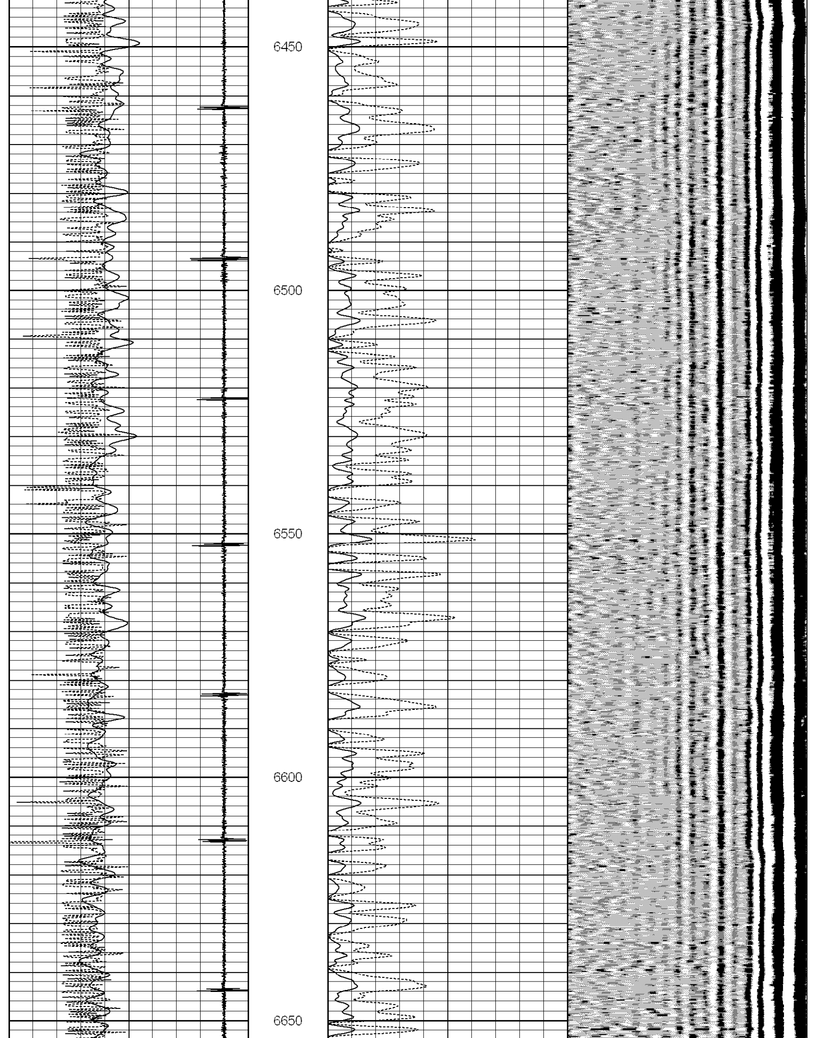


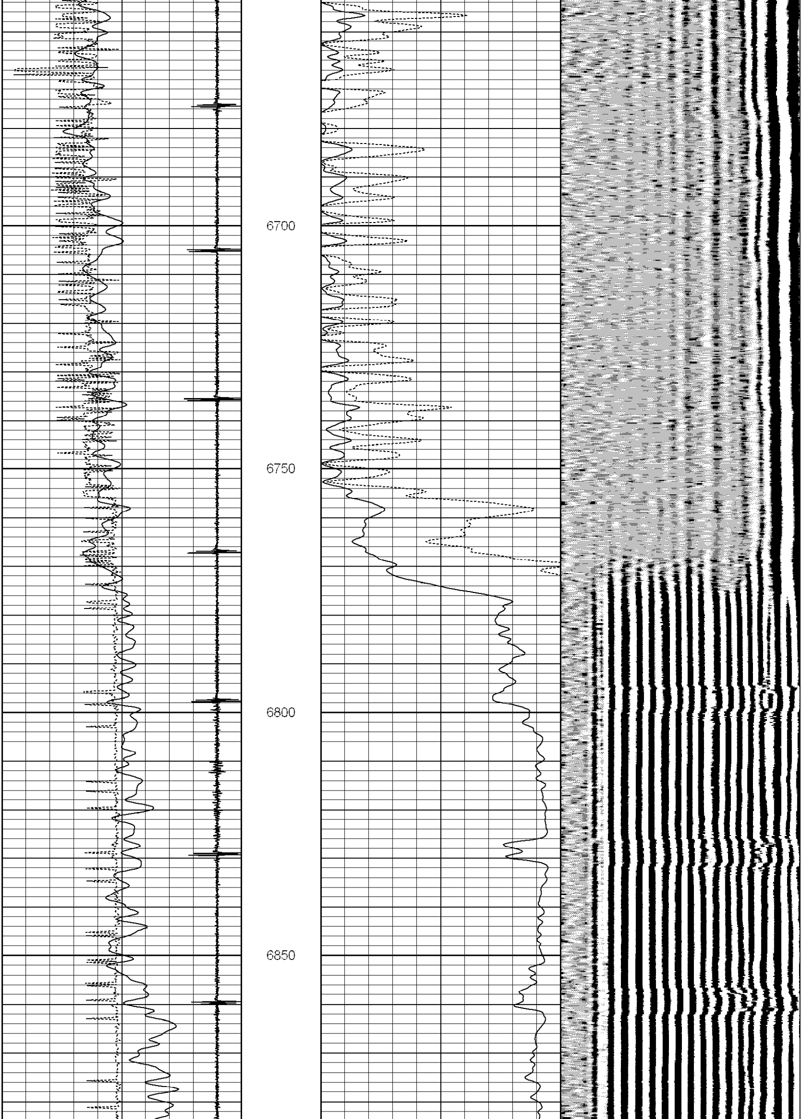


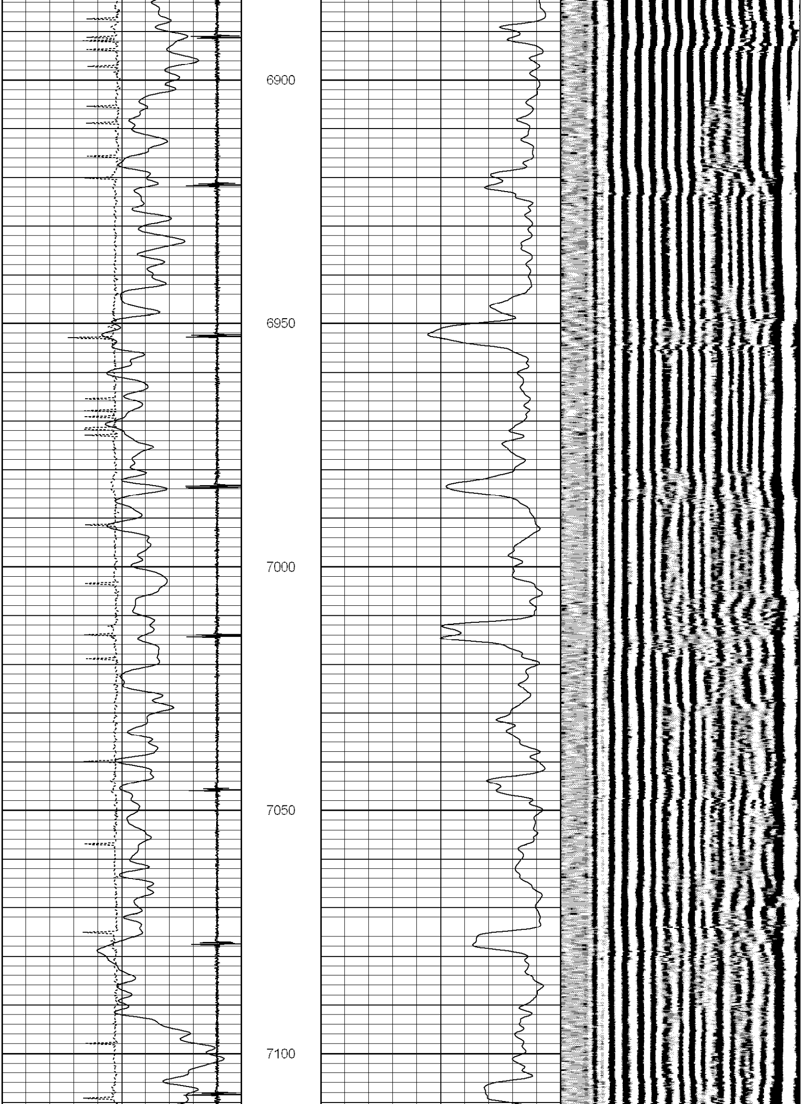


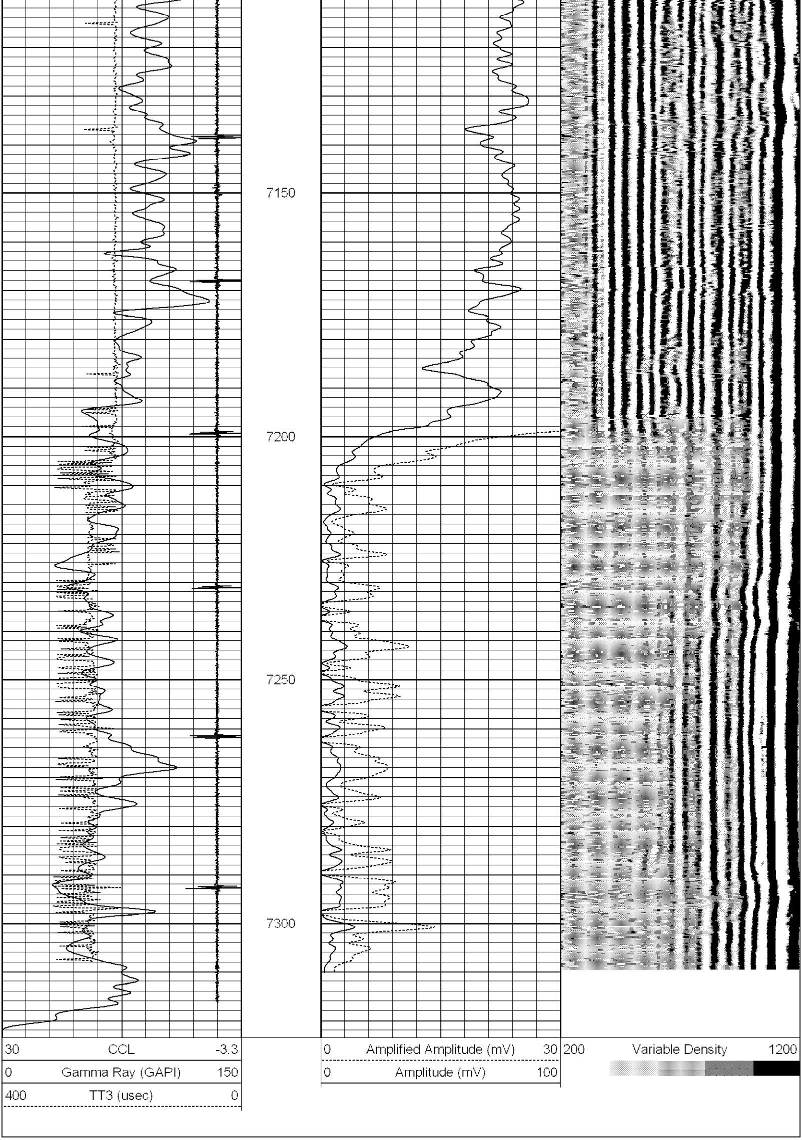












Calibration Report

Database File: cbl noble pet.db
Dataset Pathname: pass4
Dataset Creation: Wed Apr 24 10:13:34 2013 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Mon Apr 16 08:35:49 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7500	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01	
Tool Model:	TEKCO-1x2	
Performed:	Wed Apr 24 09:36:11 2013	
Depth:	4531.48	ft
Casing Diameter:	3.5	in

	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	94.5169	94.5169	mV
Reading at Signal Zero:	-0.00605469	-0.0060791	V
Reading in Free Pipe:	2.48669	2.49878	V
Gain:	37.315	37.7334	
Offset:	1.72593	0.229385	