SUPERIOR
WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C CL
V D L

Company	Noble Energy INC.
Well	SHERWOOD L30-30D
Field	Wattenberg
County	Weld
State	Colorado

Company Noble Energy INC.
Well SHERWOOD L30-30D
Field Wattenberg
County Weld State Colorado

Location: API # : 051233112700
SHL: 717' FNL & 763' FWL NW NW
BHL: 75' FSL & 165' FSL SW SW
LAT / LONG: 40.200840DEG / -104.827340
SEC 30 TWP 3N RGE 66W

Other Services

Permanent Datum	GL	Elevation	4820	
Log Measured From	KB 15'			
Drilling Measured From	KB			

Elevation
K.B. 4835
D.F. 4835
G.L. 4820

Date	December 13, 2010		
Run Number	ONE		
Depth Driller	8113		
Depth Logger	8042		
Bottom Logged Interval	8041		
Top Log Interval	2315		
Casing Size	4 1/2"		
Type Fluid	Water		
Max. Recorded Temp.	259 deg F		
Estimated Cement Top	2490		
Time Well Ready	Mast Truck		
Time Logger On Bottom	AM		
Unit Number	3344		
Tool Size / ID Number	1 11/16 Tool 1 RED		
Location	Platteville, CO		
Recorded By	K. Monaghan		
Witnessed By	M. Trimble		

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	4 1/2"	11.6 lb/ft M-80	Surface	8103
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 Superior Well Services!!!
API# 05-123-31127-00
Correlated to H.E.S's
Spectral Density / Dual Spaced Neutron / Array Compensated / True Resistivity / Gamma Ray Log
Dated: November 25, 2010
Western Most Well of 5 well Pad

Database File:	cblsherwood I30-30d.db
Dataset Pathname:	pass4
Presentation Format:	nuexcbl
Dataset Creation:	Mon Dec 13 08:44:03 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

20 CCL -1

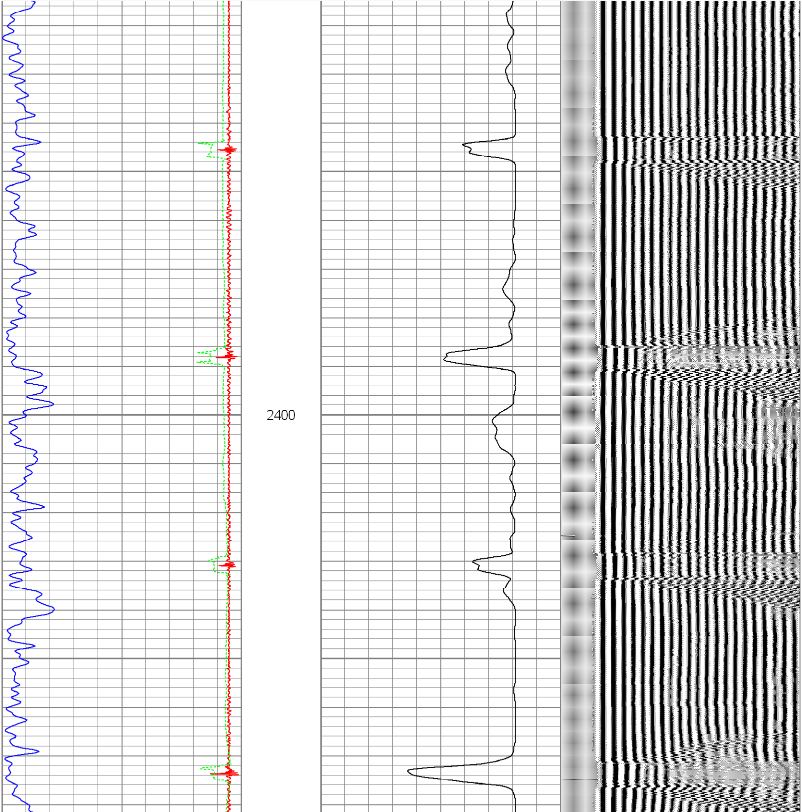
0 Gamma Ray (GAPI) 150

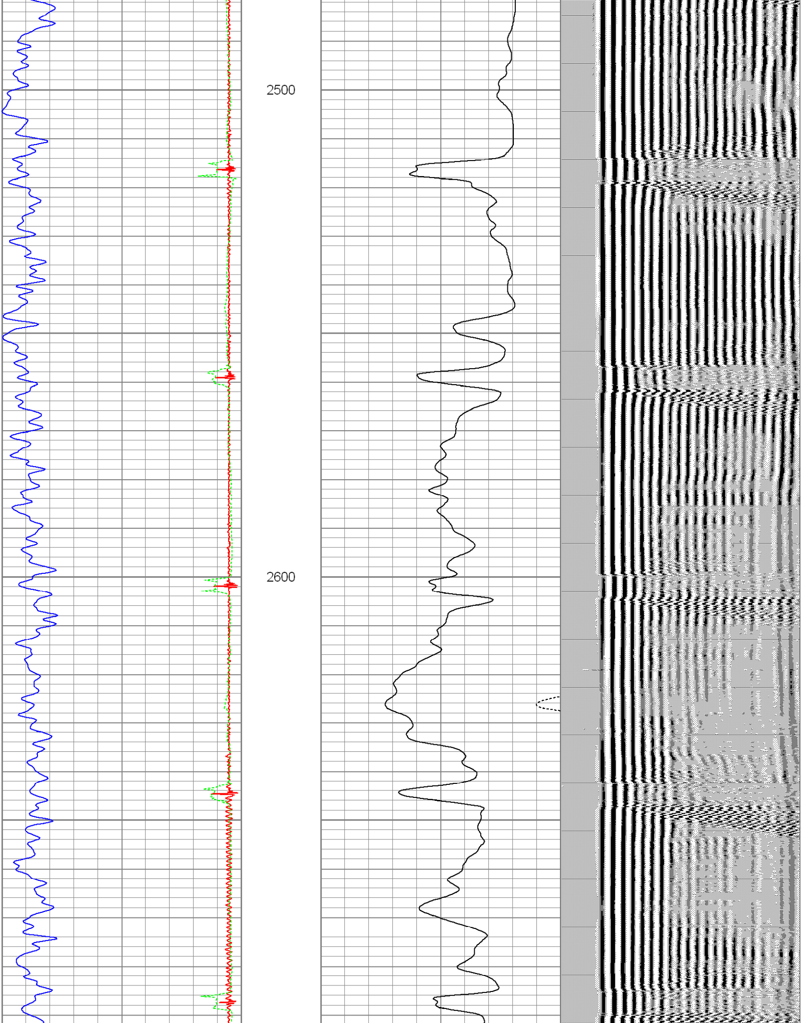
340 TT3 (usec) 240

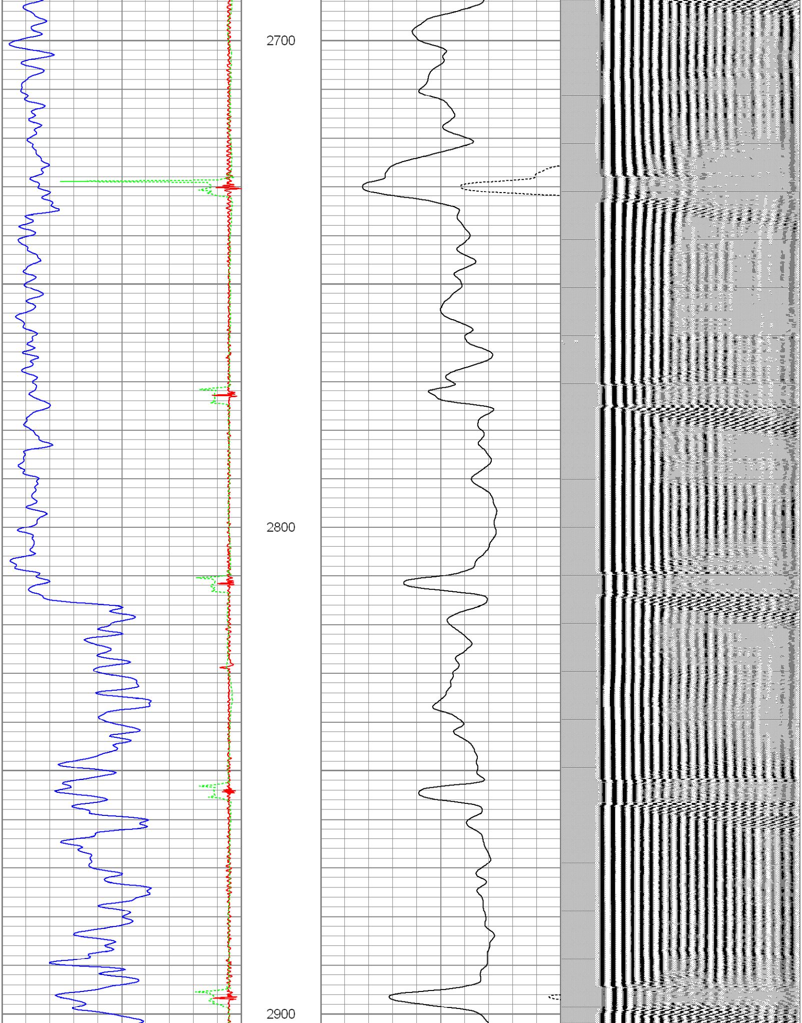
0 Amplified Amplitude (mV) 30

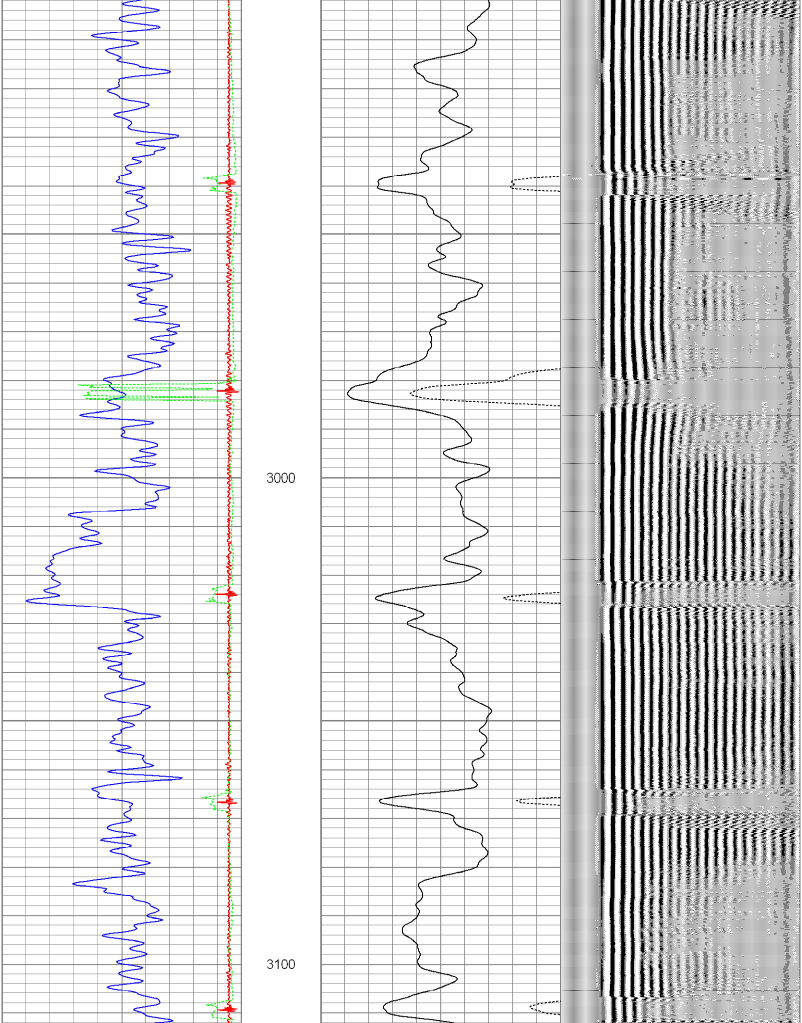
0 Amplitude (mV) 100

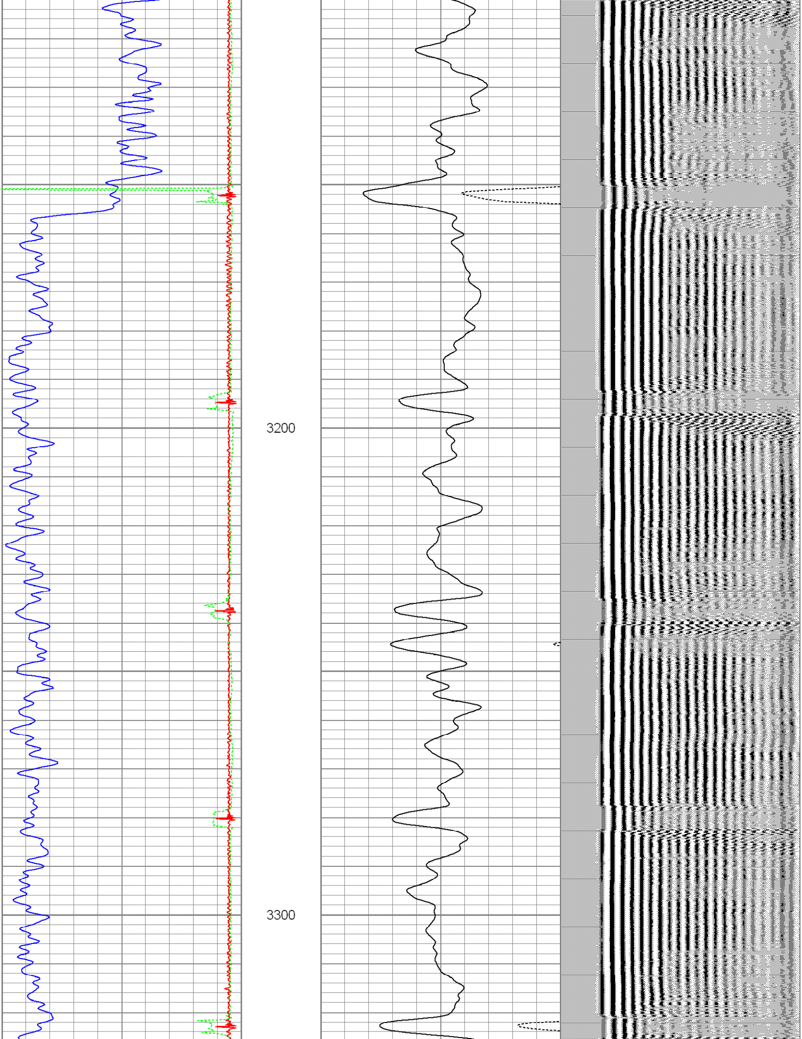
200 Variable Density 1200

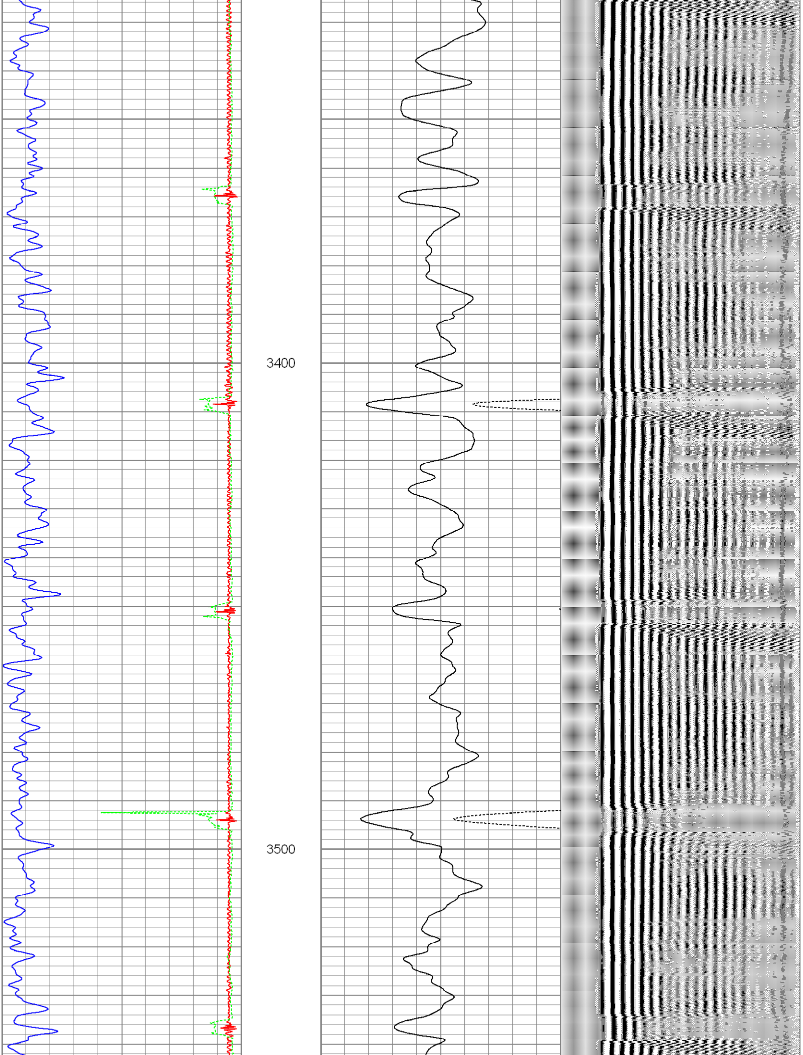


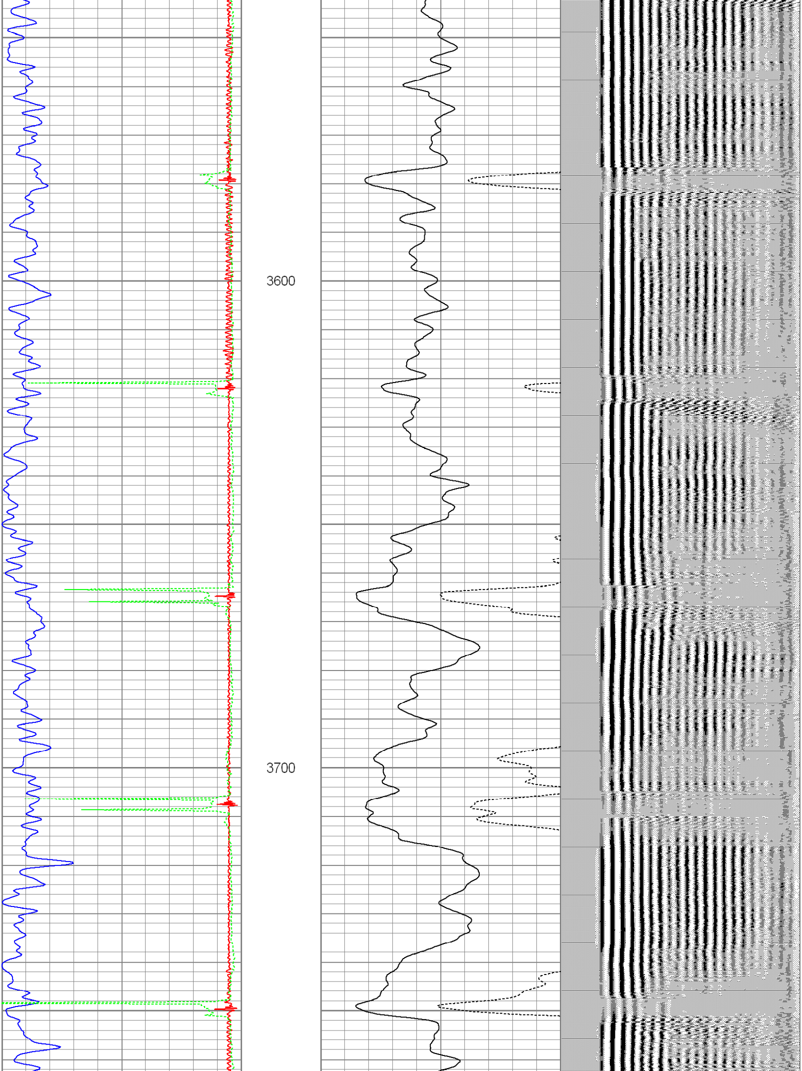


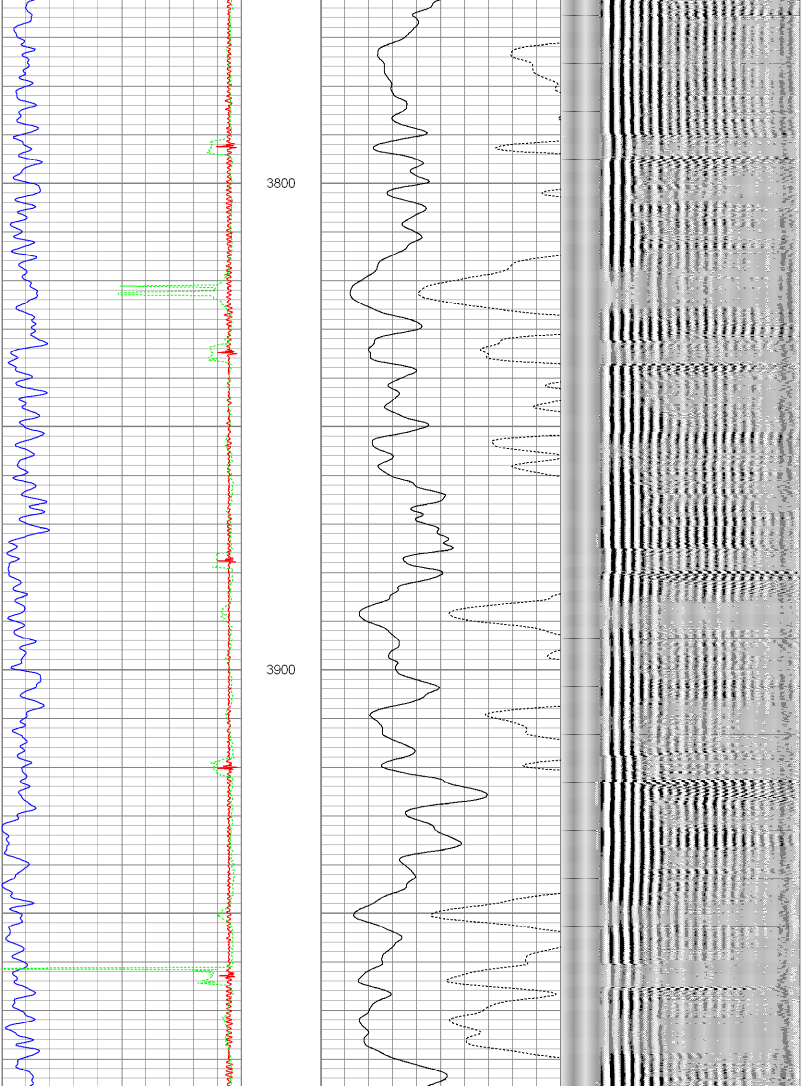


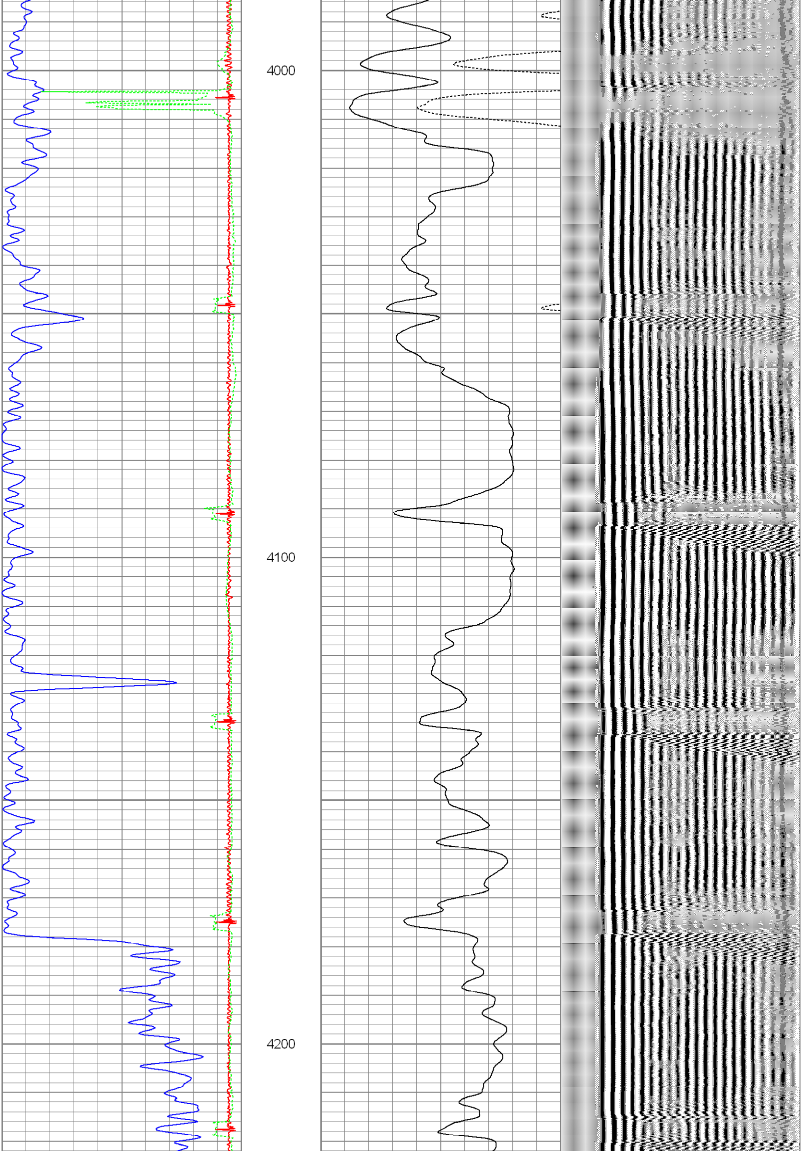


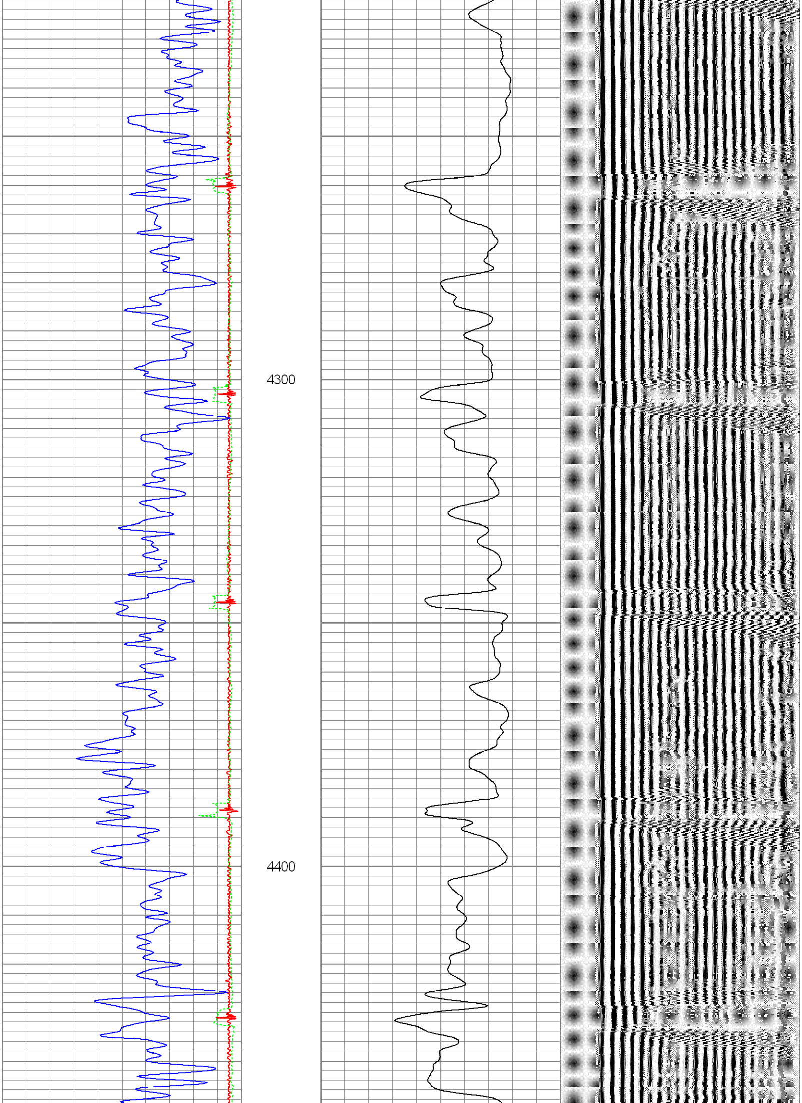


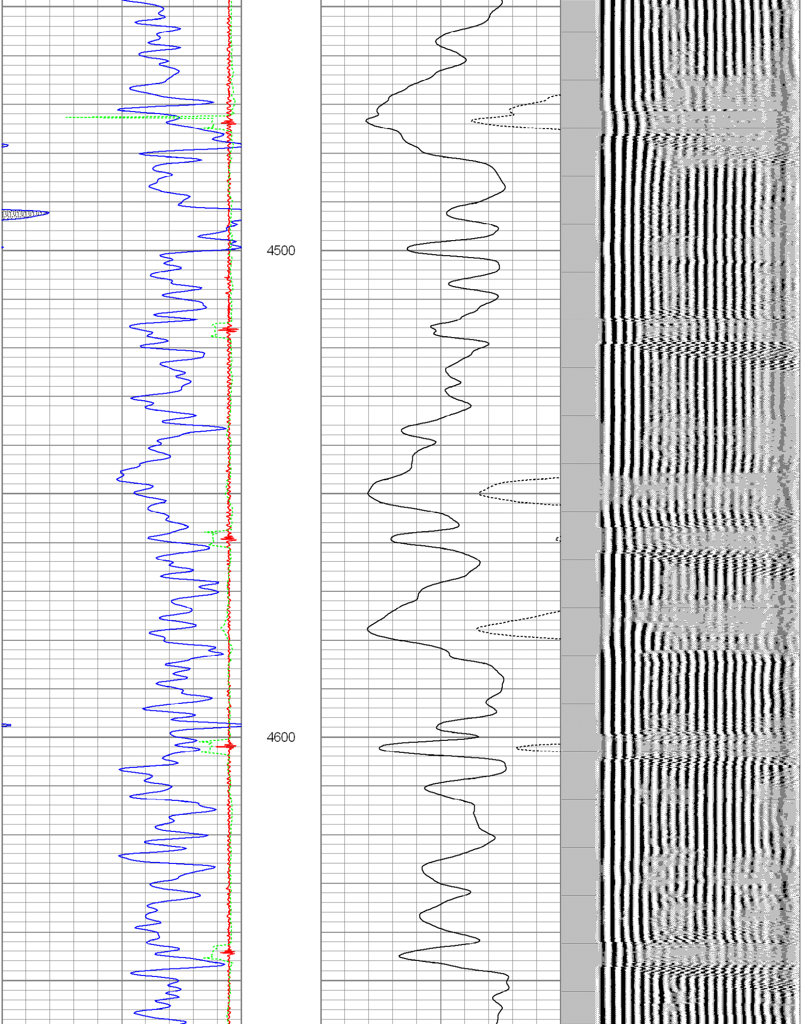


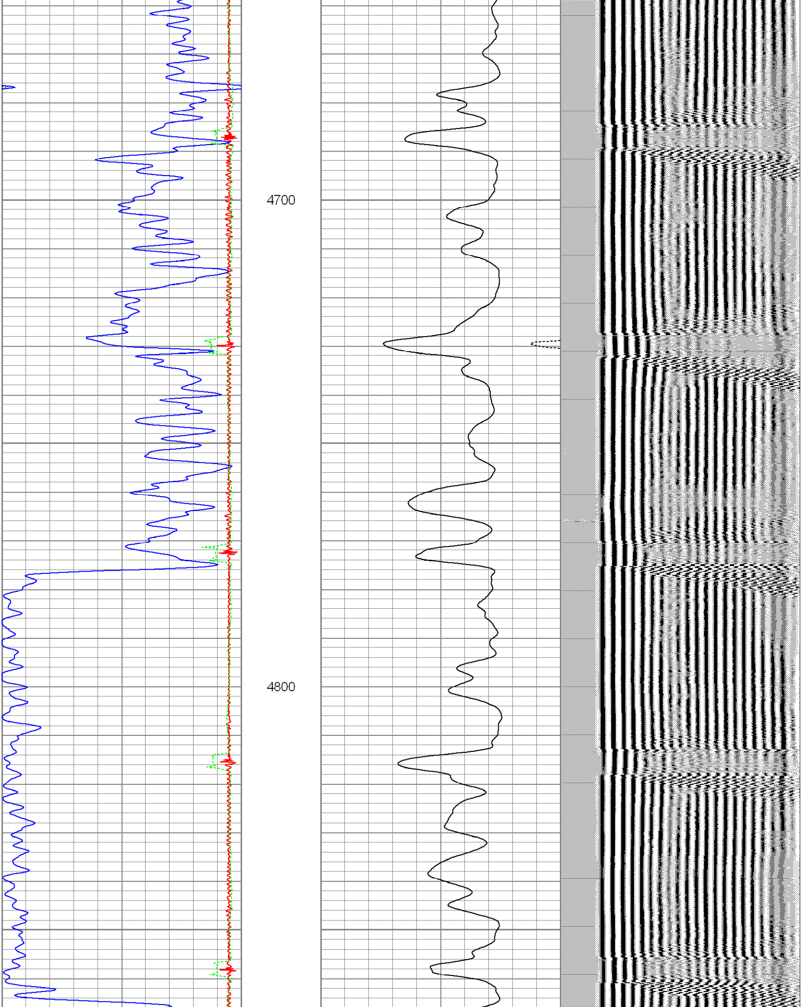


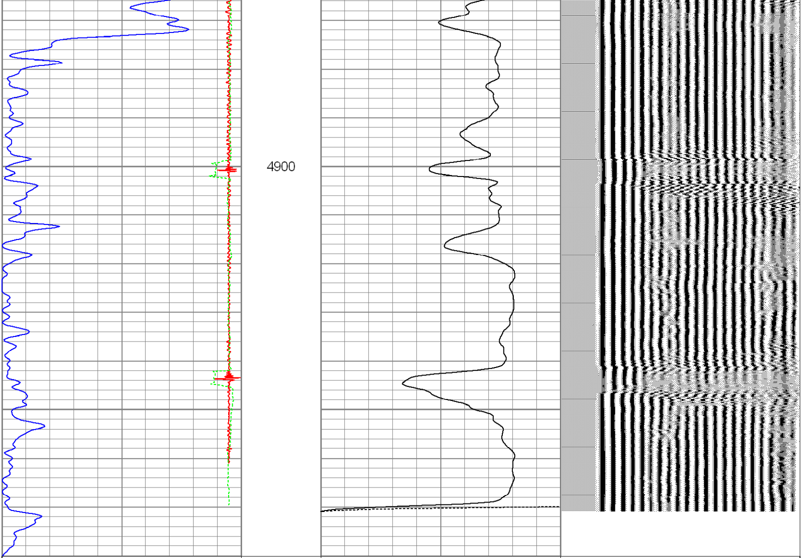








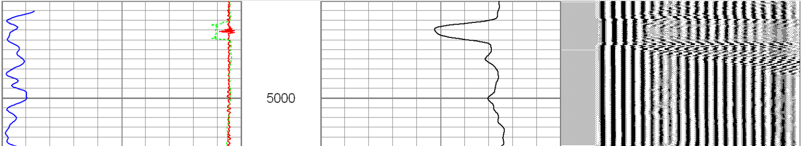


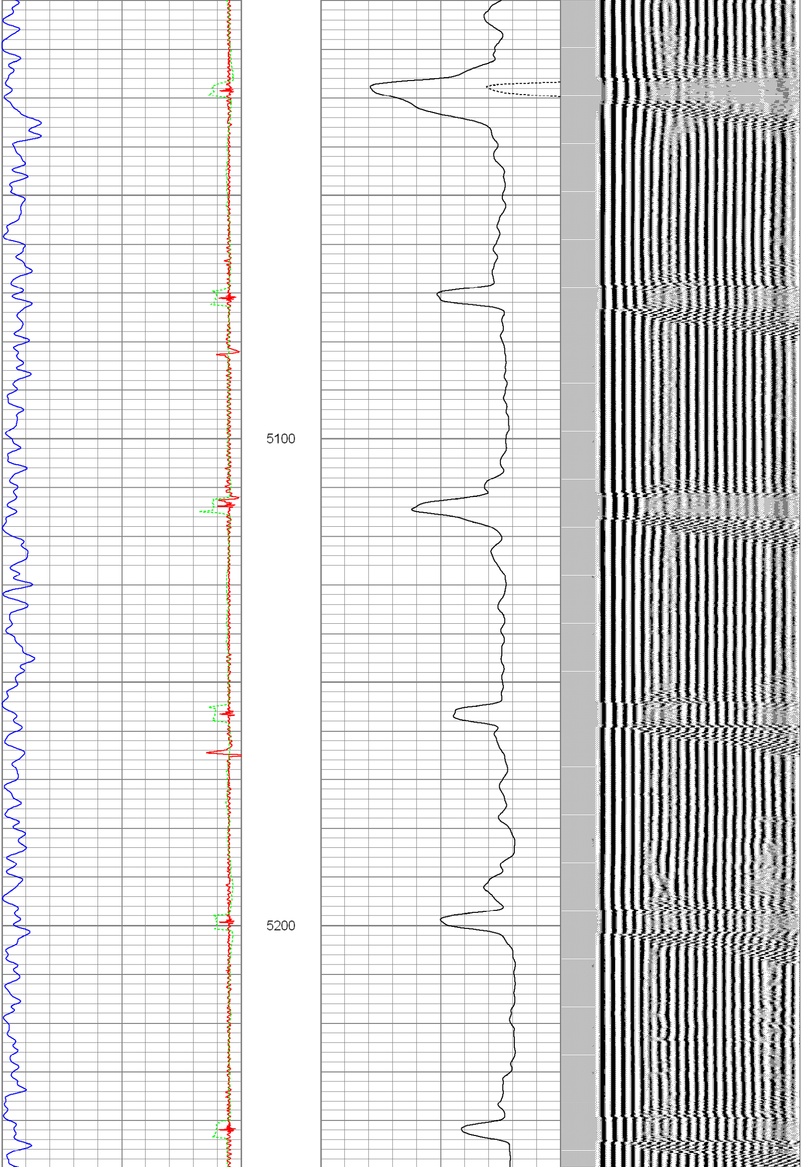


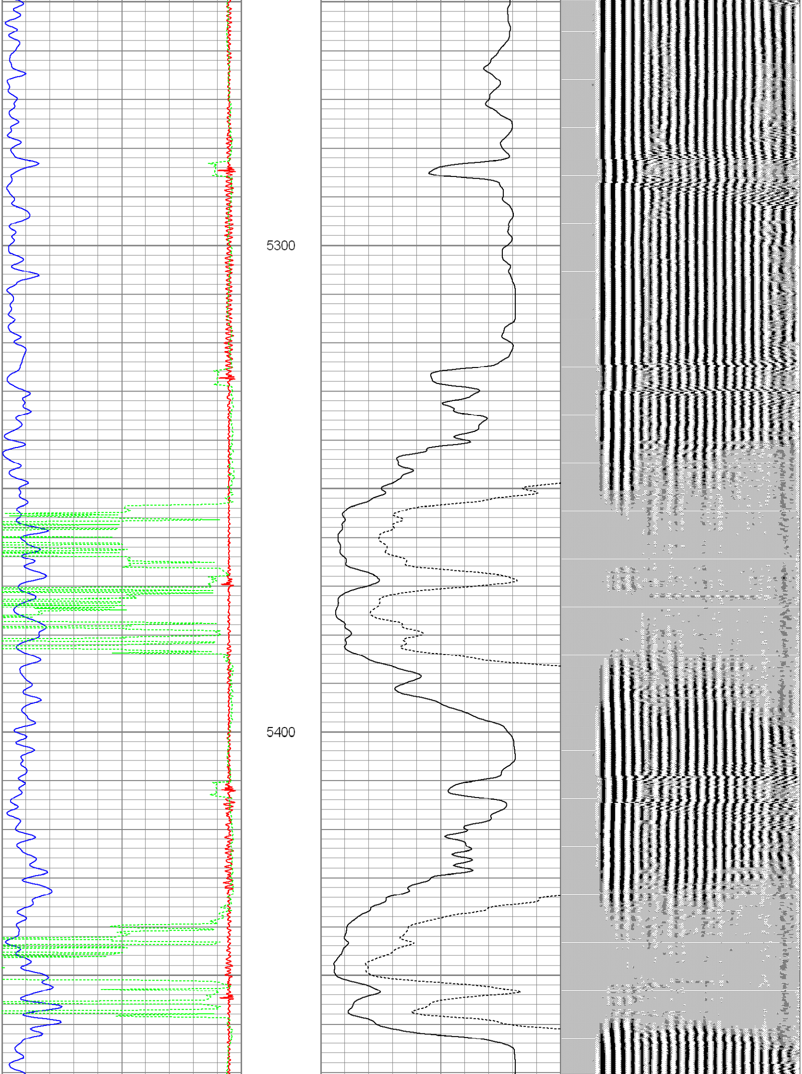
20 CCL -1	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0 Gamma Ray (GAPI) 150	0 Amplitude (mV) 100	
340 TT3 (usec) 240		

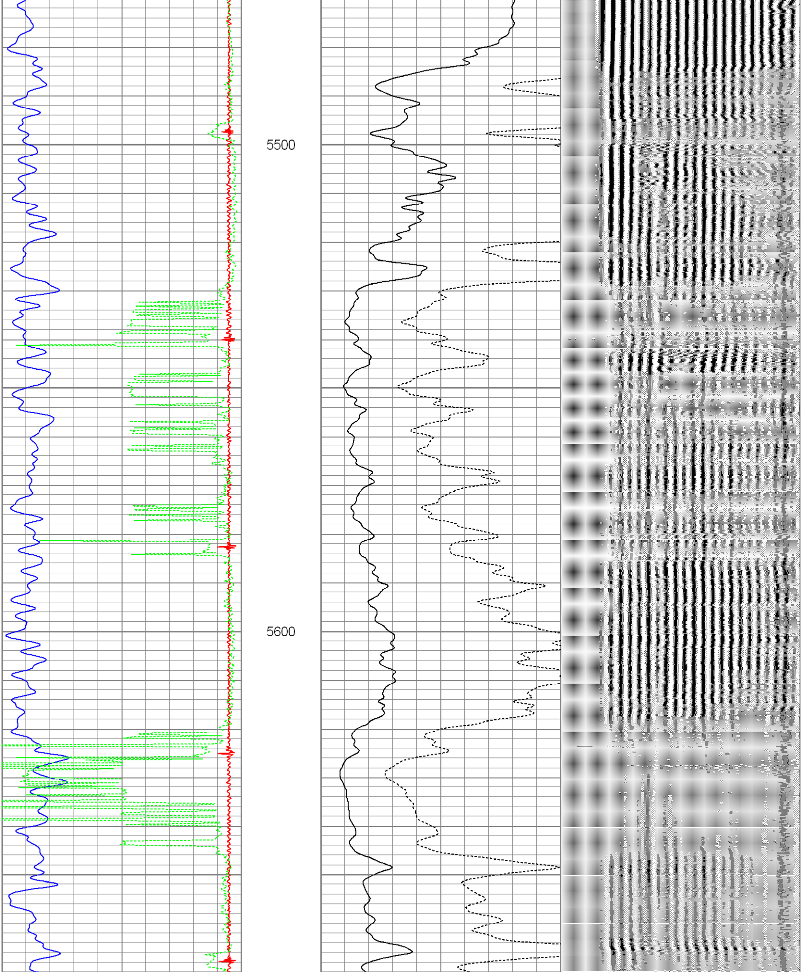
Database File:	cblsherwood l30-30d.db
Dataset Pathname:	pass3
Presentation Format:	nuexcbl
Dataset Creation:	Mon Dec 13 08:20:39 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

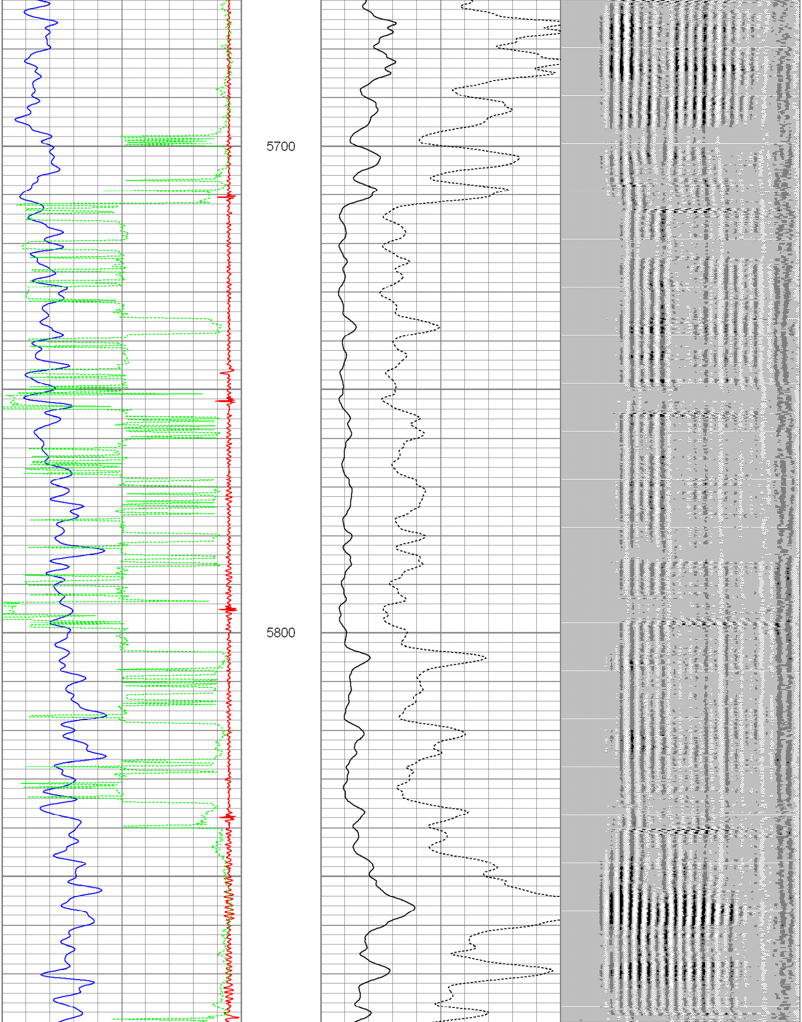
20 CCL -1	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0 Gamma Ray (GAPI) 150	0 Amplitude (mV) 100	
340 TT3 (usec) 240		

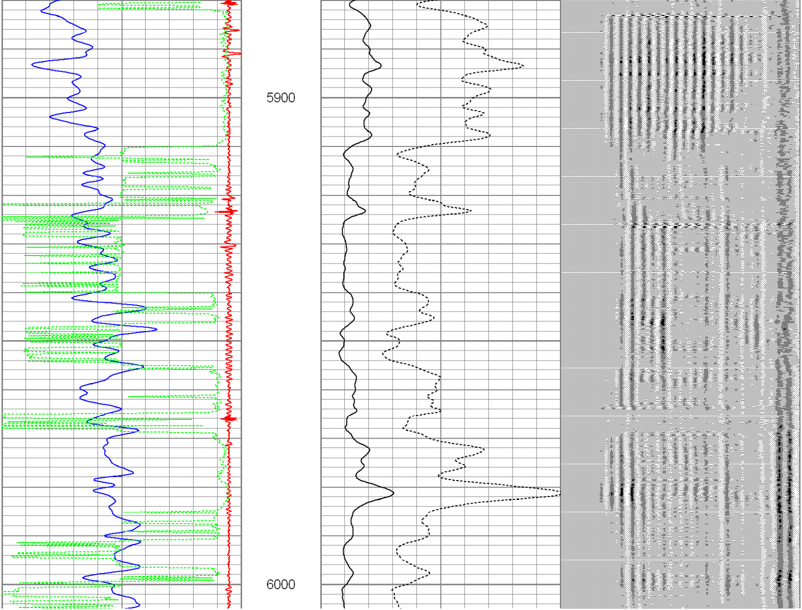




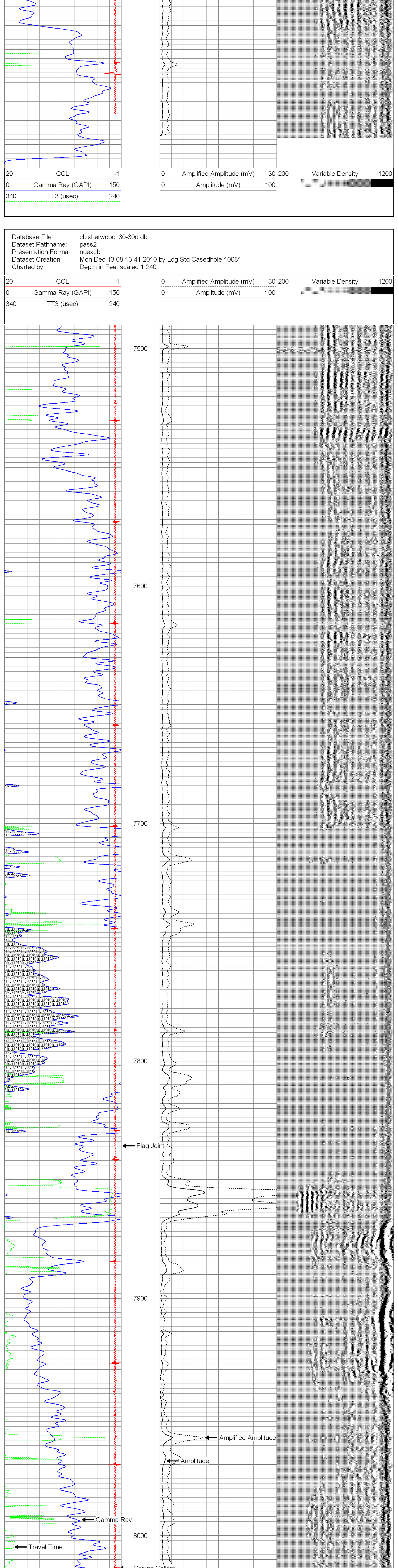








Database File: cblsherwood l30-30d.db
Dataset Pathname: pass2
Presentation Format: nuexcbl
Dataset Creation: Mon Dec 13 08:13:41 2010 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: cblsherwood l30-30d.db
Dataset Pathname: pass4
Dataset Creation: Mon Dec 13 08:44:03 2010 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	tit/temp	
Tool Model:	temp/tit	
Performed:	Mon Dec 13 08:48:07 2010	
Calibrator Value:	2.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.8000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01		
Tool Model:	TEKCO-1x2		
Performed:	Mon Dec 13 06:00:45 2010		
Depth:	162.2	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0370117	0.0148437	V
Reading in Free Pipe:	2.49482	2.49878	V
Gain:	32.8325	32.6885	
Offset:	-0.715187	-0.48522	