CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company	Noble Energy INC.
Well	BOOTH USX EE35-05D
Field	Wattenberg
County	Weld
State	Colorado

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Field	Wattenberg		
County	Weld	State	Colorado

Location: API # : 05123342150000
SHL: 1149' FNL & 2088' FEL NW NE
BHL: 2100' FNL & 660' FWL SWNW
LAT: 40.53485 / -104.62803
SEC 35 TWP 7N RGE 65W

Other Services

Permanent Datum	GL	Elevation	7868
Log Measured From	KB 14'		
Drilling Measured From	KB		

Elevation
K.B. 4845
D.F. 4845
G.L. 4831

Date	November 3, 2011		
Run Number	One		
Depth Driller	7868		
Depth Logger	7799		
Bottom Logged Interval	7798		
Top Log Interval	1730		
Casing Size	4 1/2"		
Type Fluid	Water		
Max. Recorded Temp.	225 deg F		
Estimated Cement Top	2050		
Time Well Ready	Crane		
Time Logger On Bottom	AM		
Unit Number	3344		
Tool Size / ID Number	Probe 2.75 110802	Probe 2.75 110785	
Location	Platteville, CO		
Recorded By	K. Monaghan		
Witnessed By	J. Schneider		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8"	24 lb/ft J-55	Surface	774
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7857
Liner				

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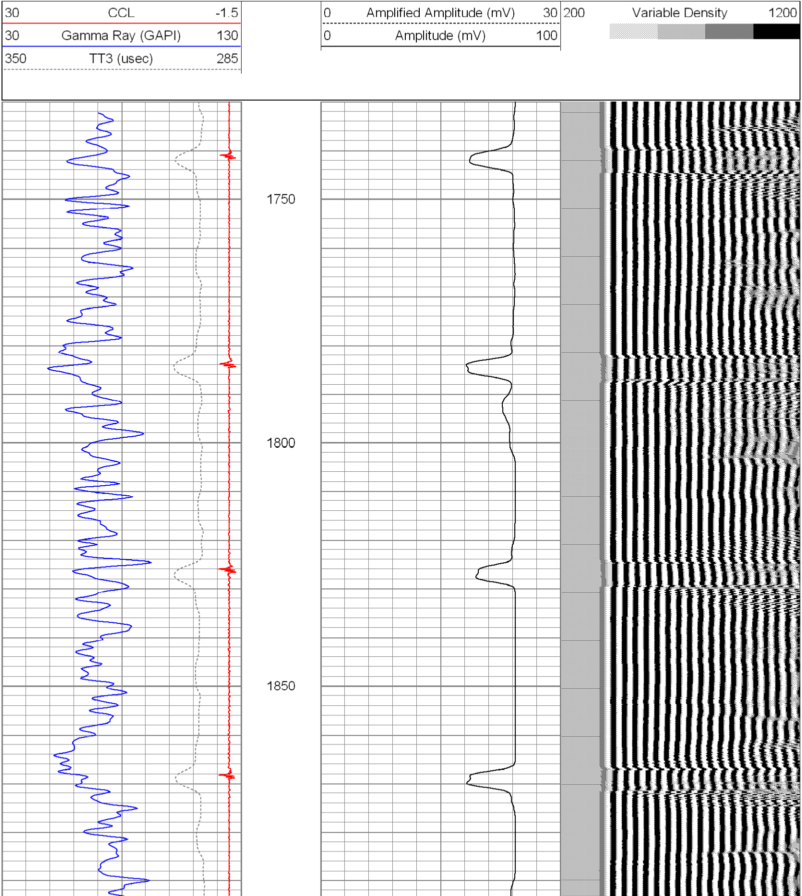
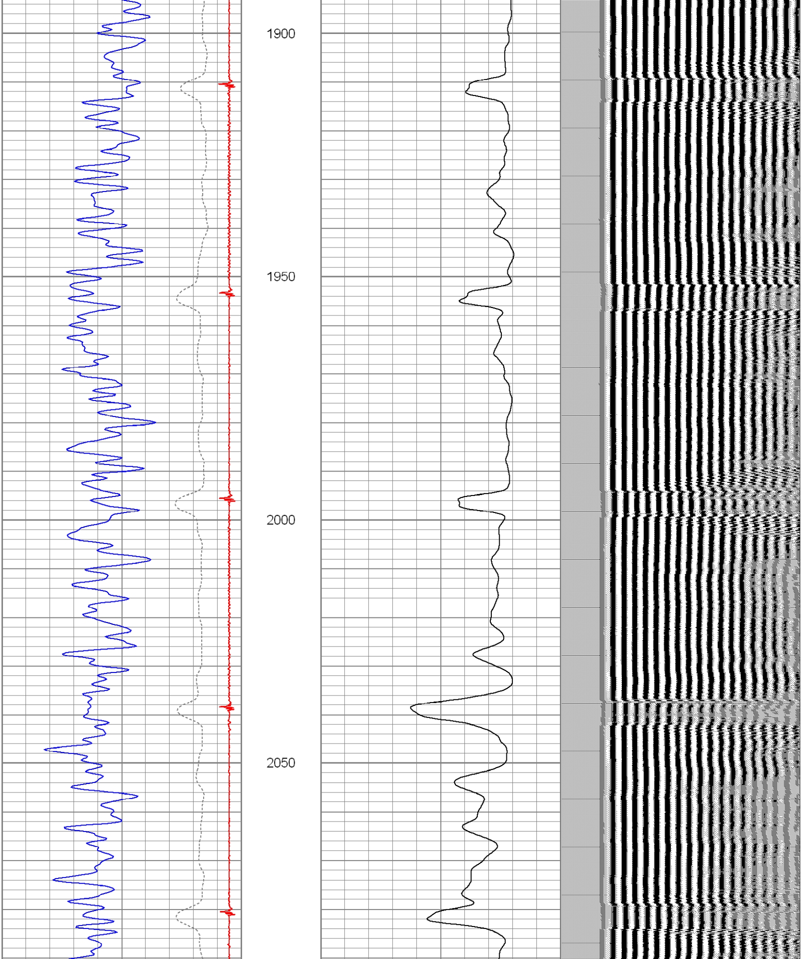
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

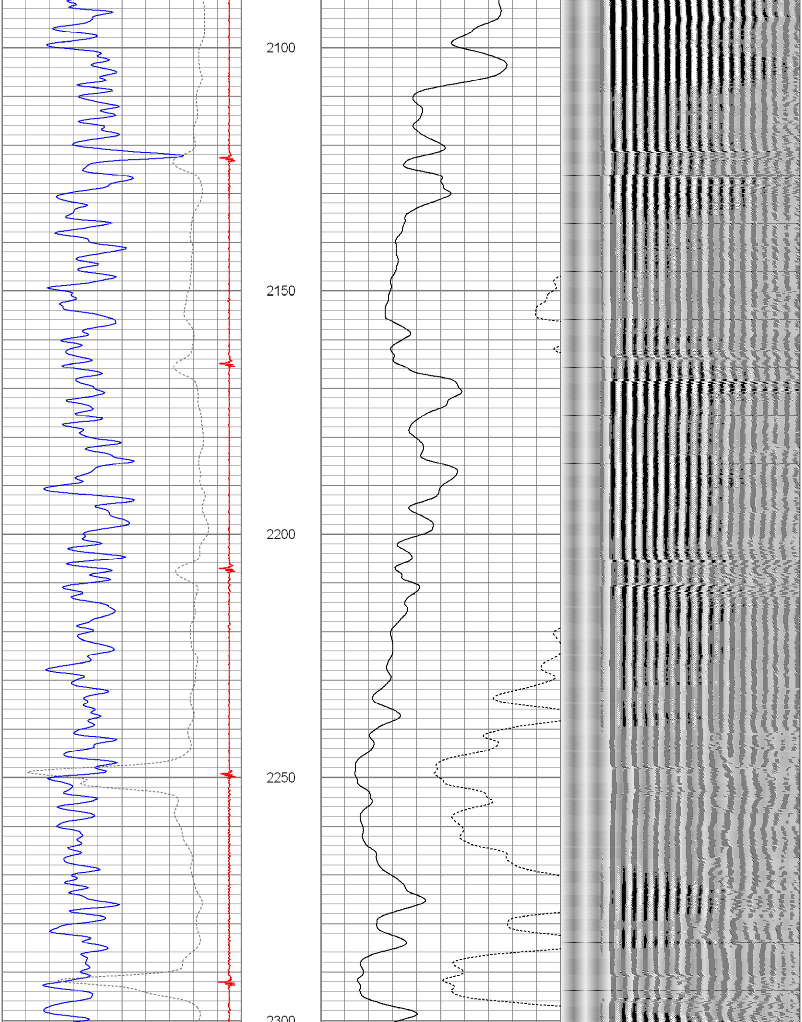
Comments

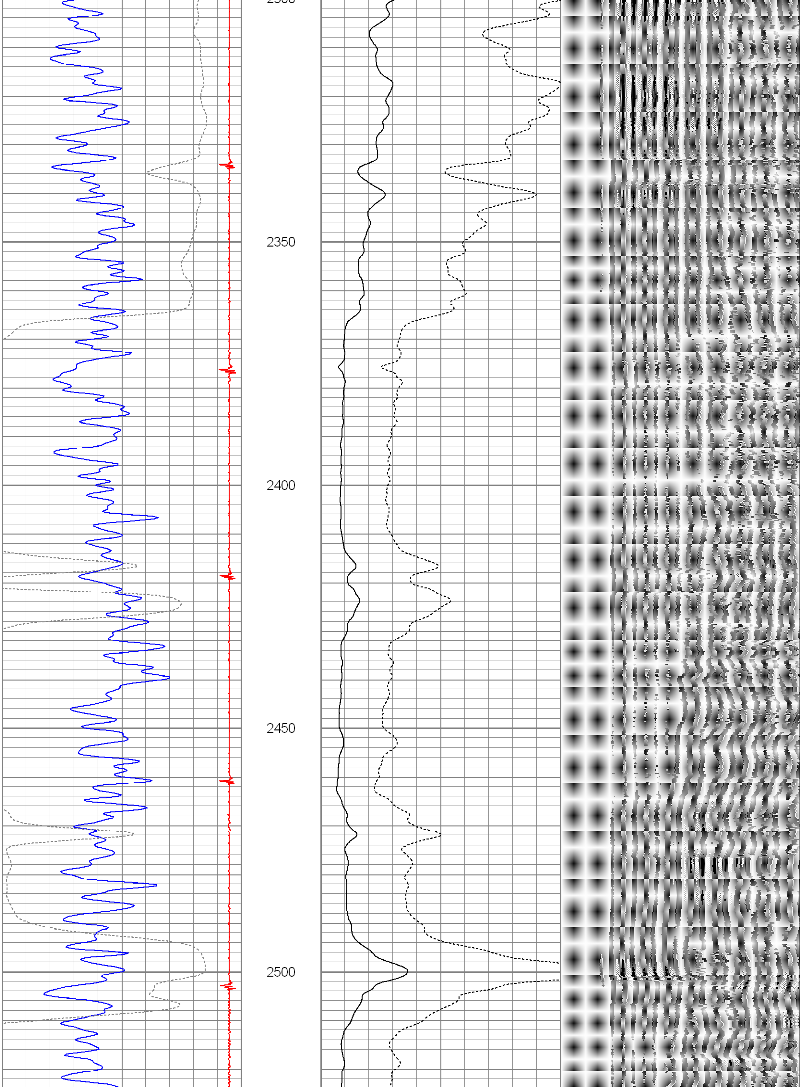
Thank You For Choosing Superior Well Services!!
API# 05-123-34215-0000
Correlated to HES's
Spectral Density / Dual Spaced Neutron / Array Compensated / True Resistivity
Dated: October 9th, 2011
Directions: 76 & 45, E 6/10, S 3/10, Into
(Northern Most Well of 3 Well Pad)

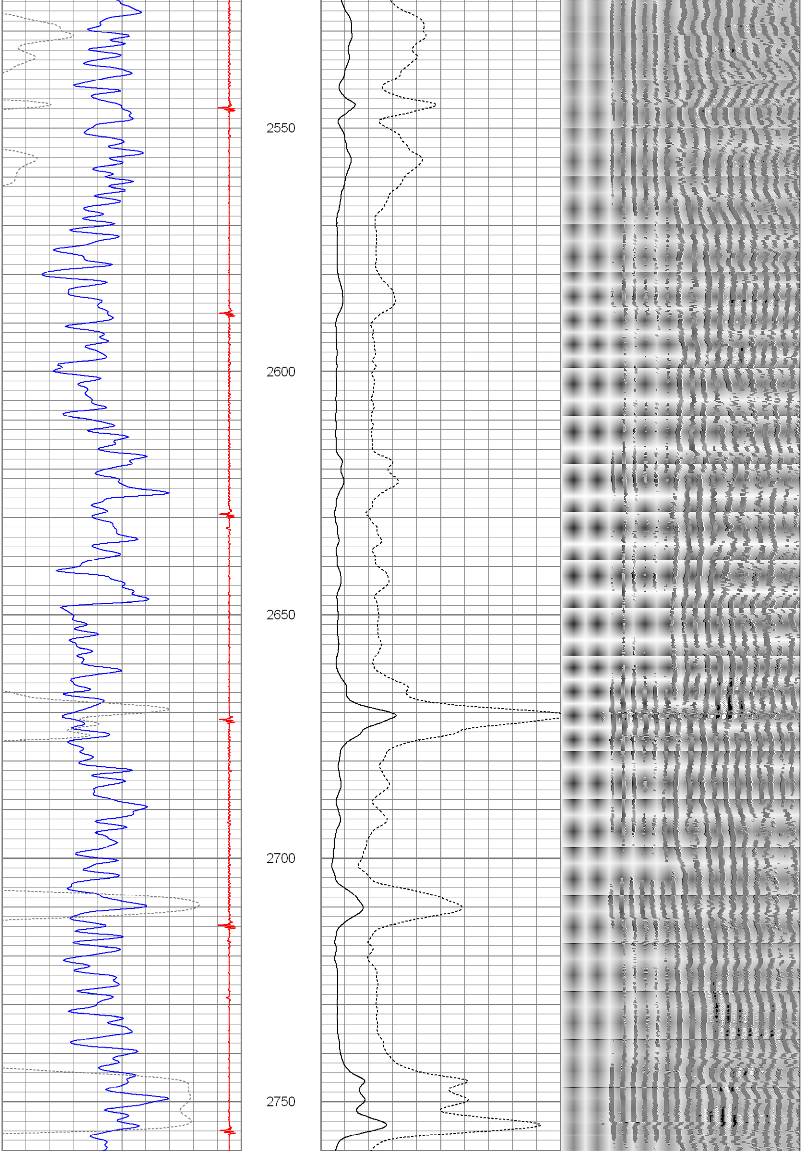
Database File: cblbooth usx ee35-05.db
Dataset Pathname: pass3
Presentation Format: noble en
Dataset Creation: Thu Nov 03 07:48:46 2011 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

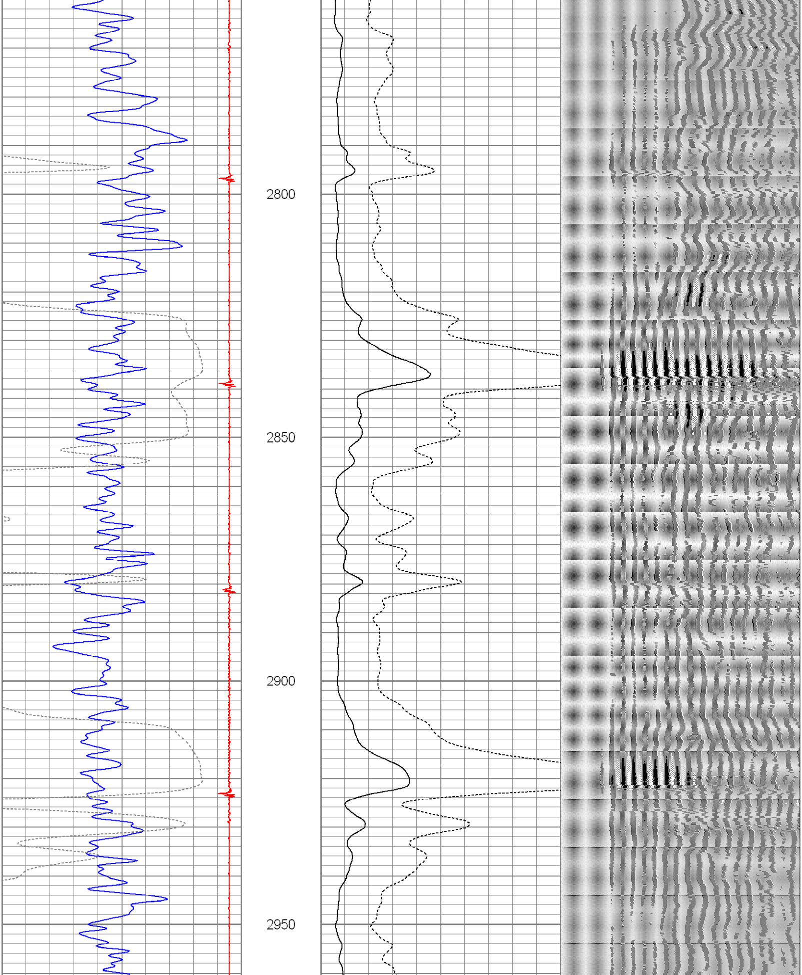


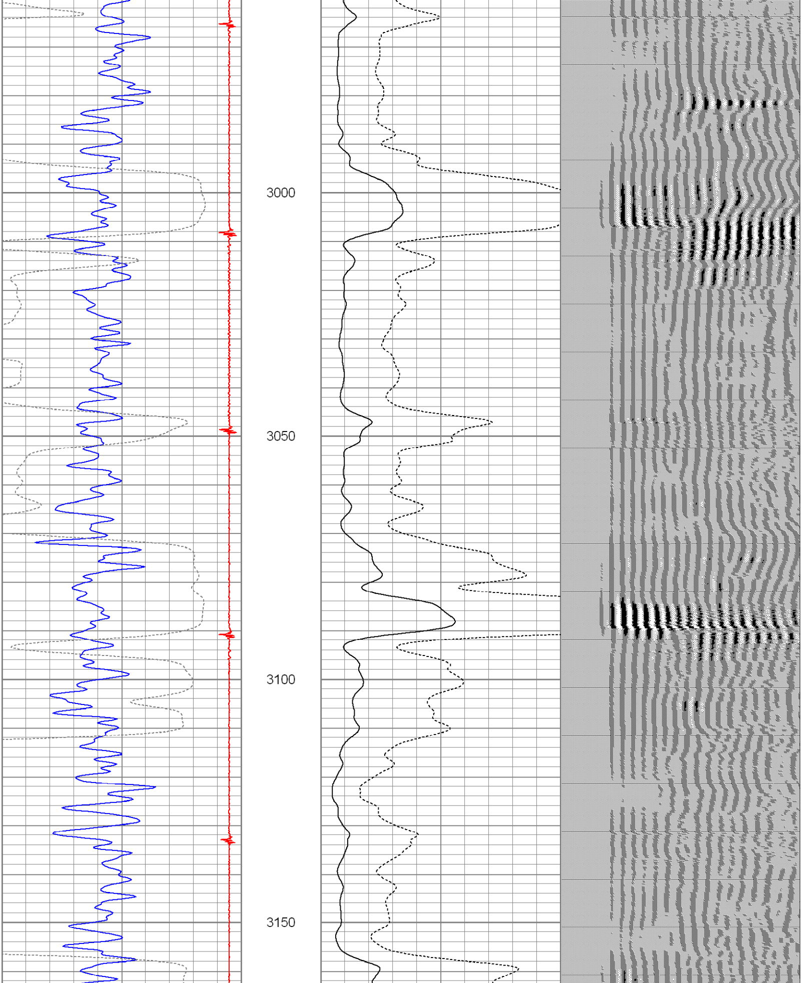


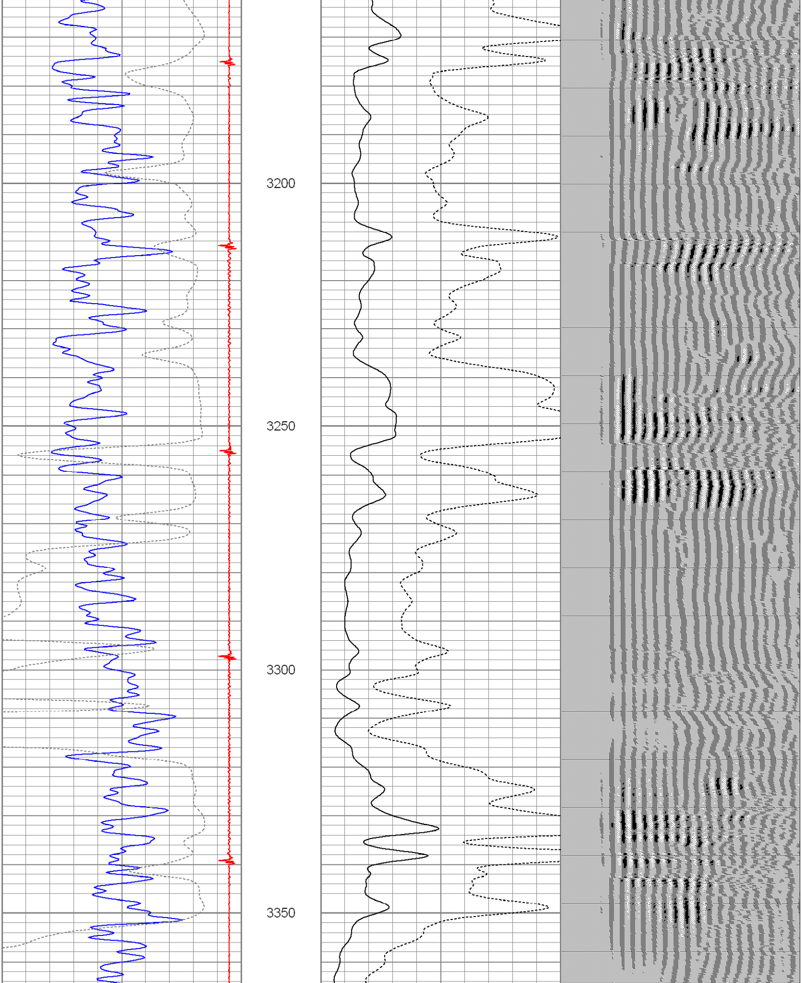


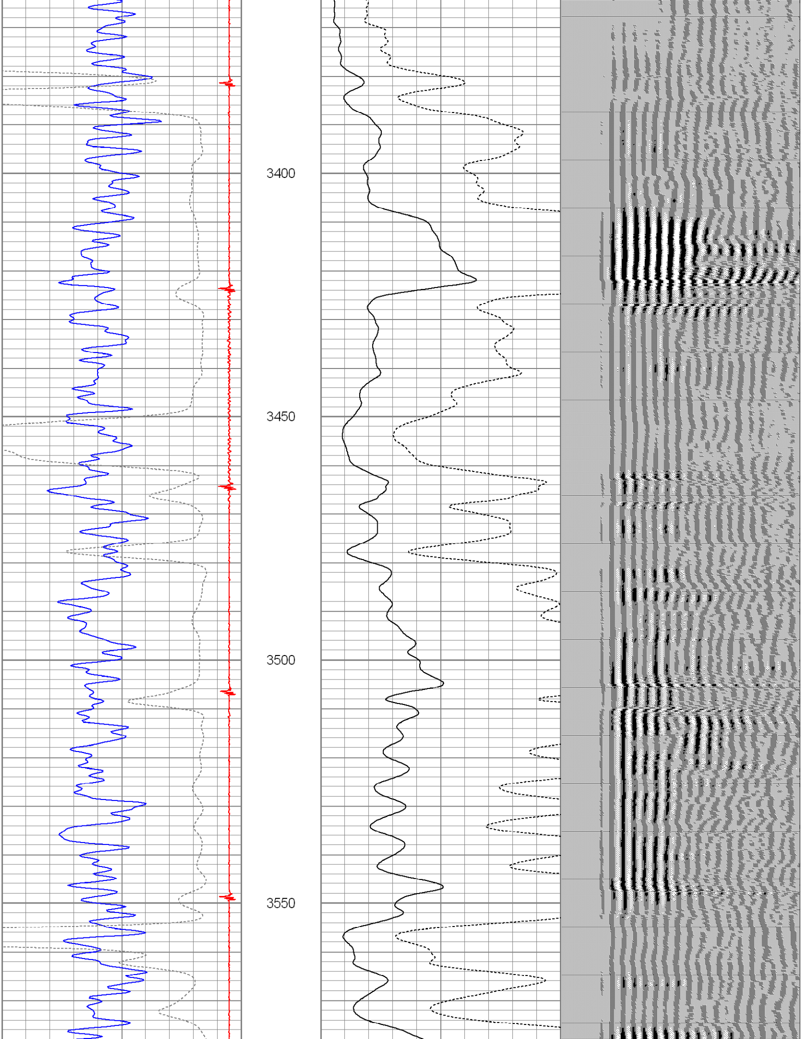


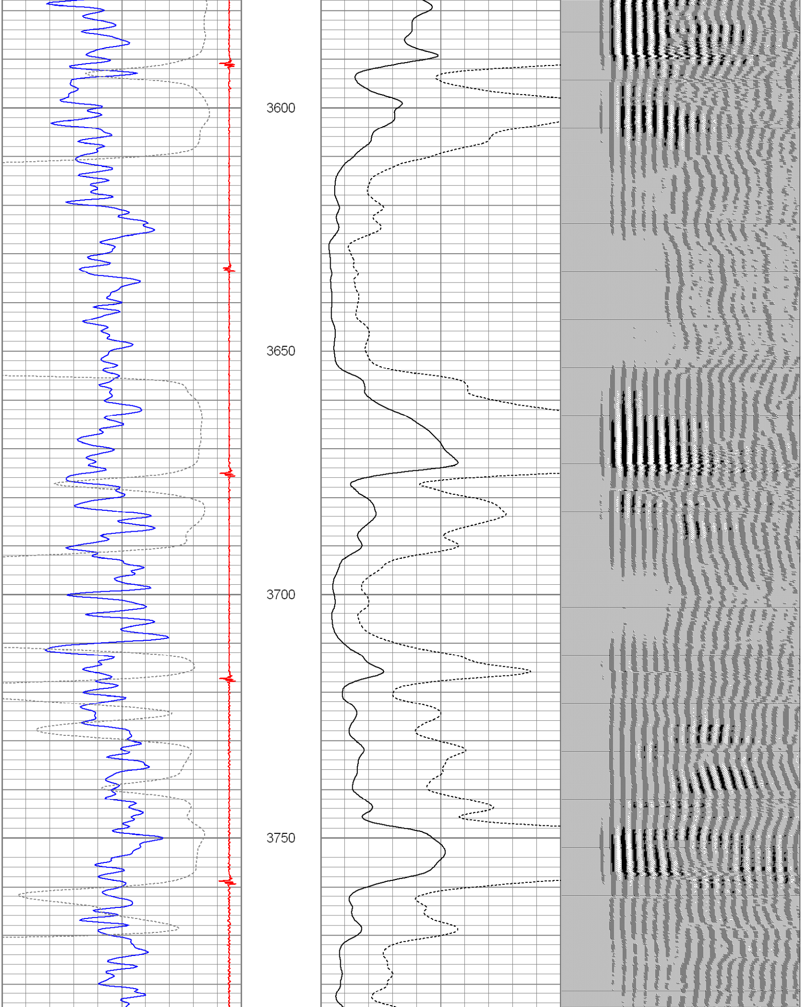


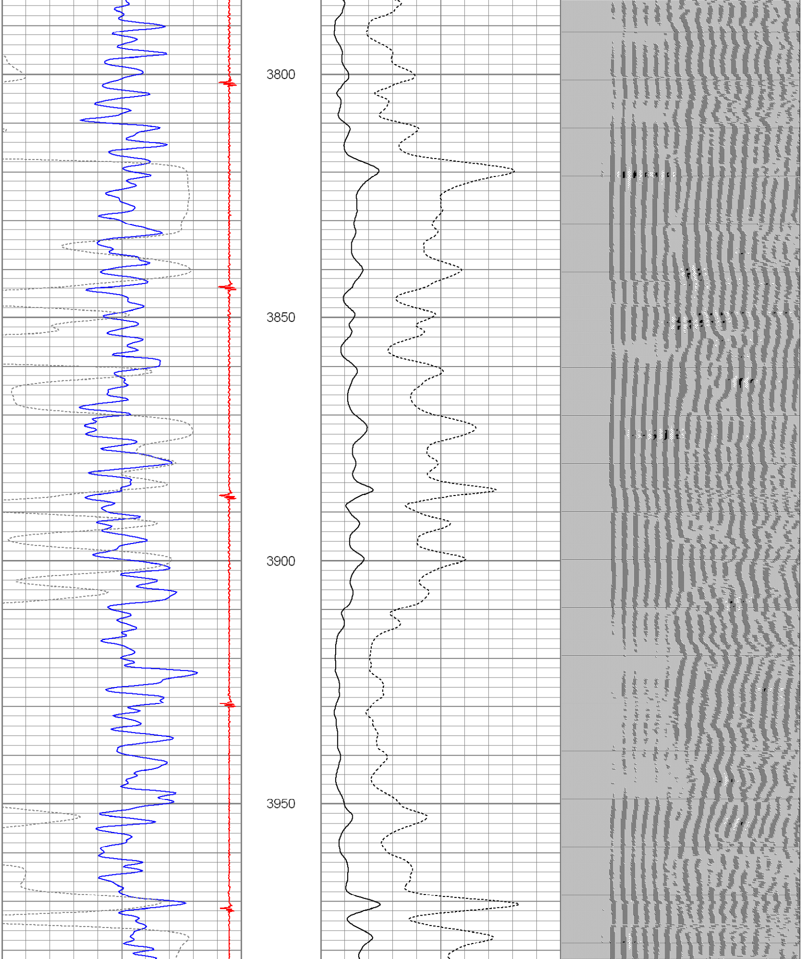


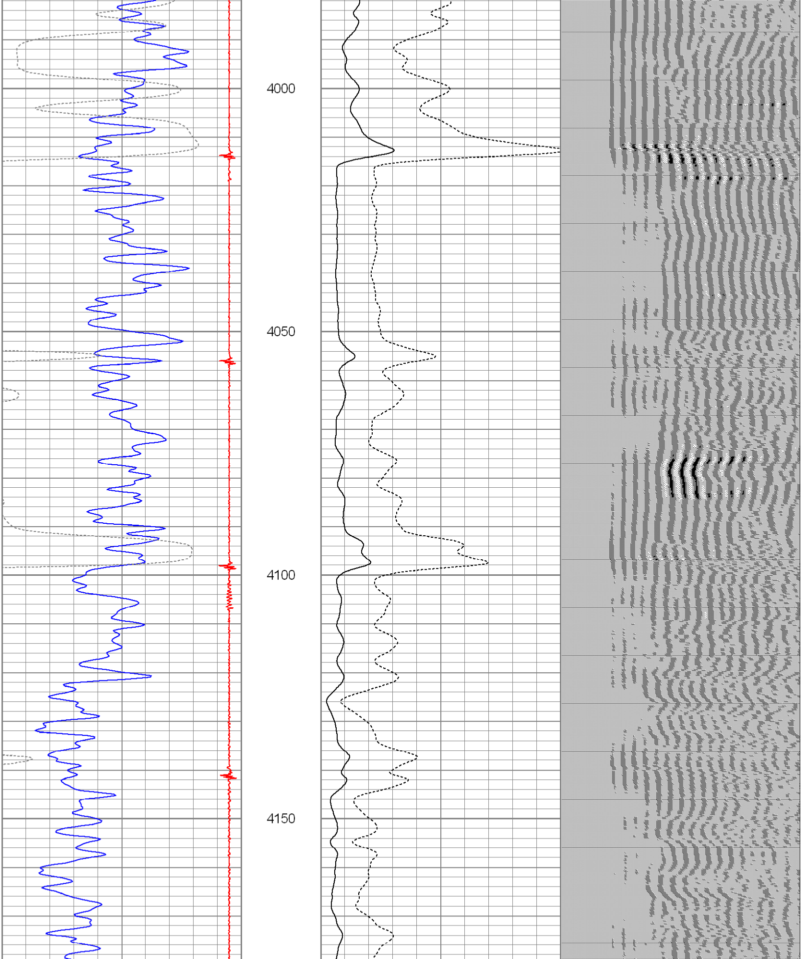


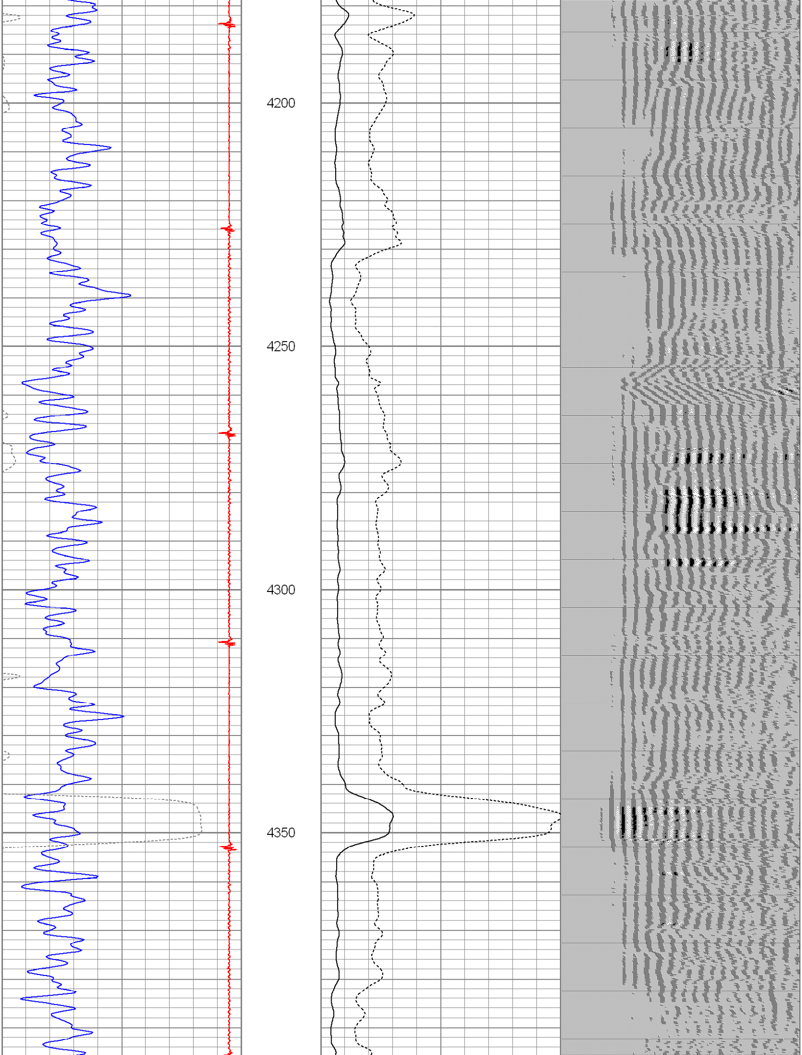


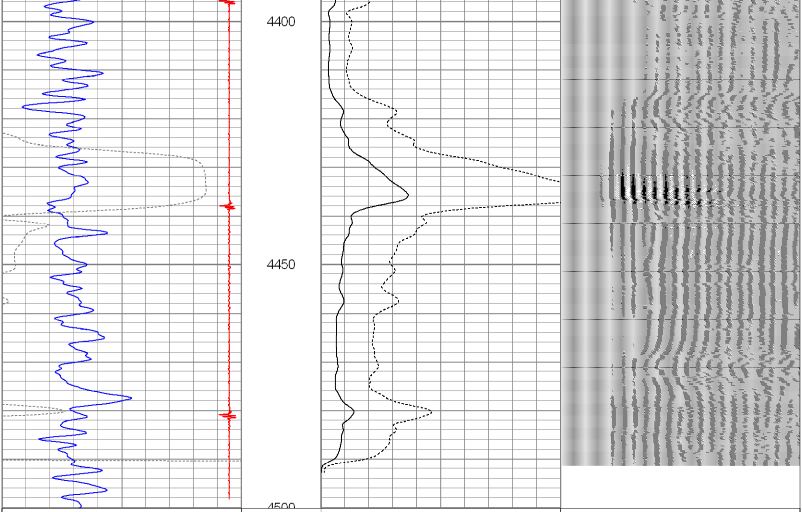








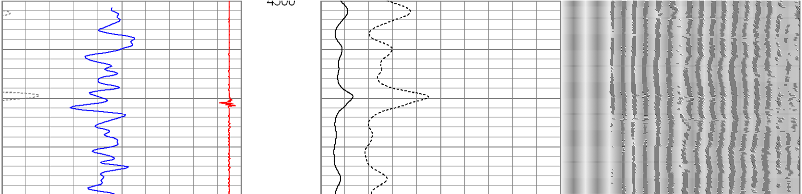


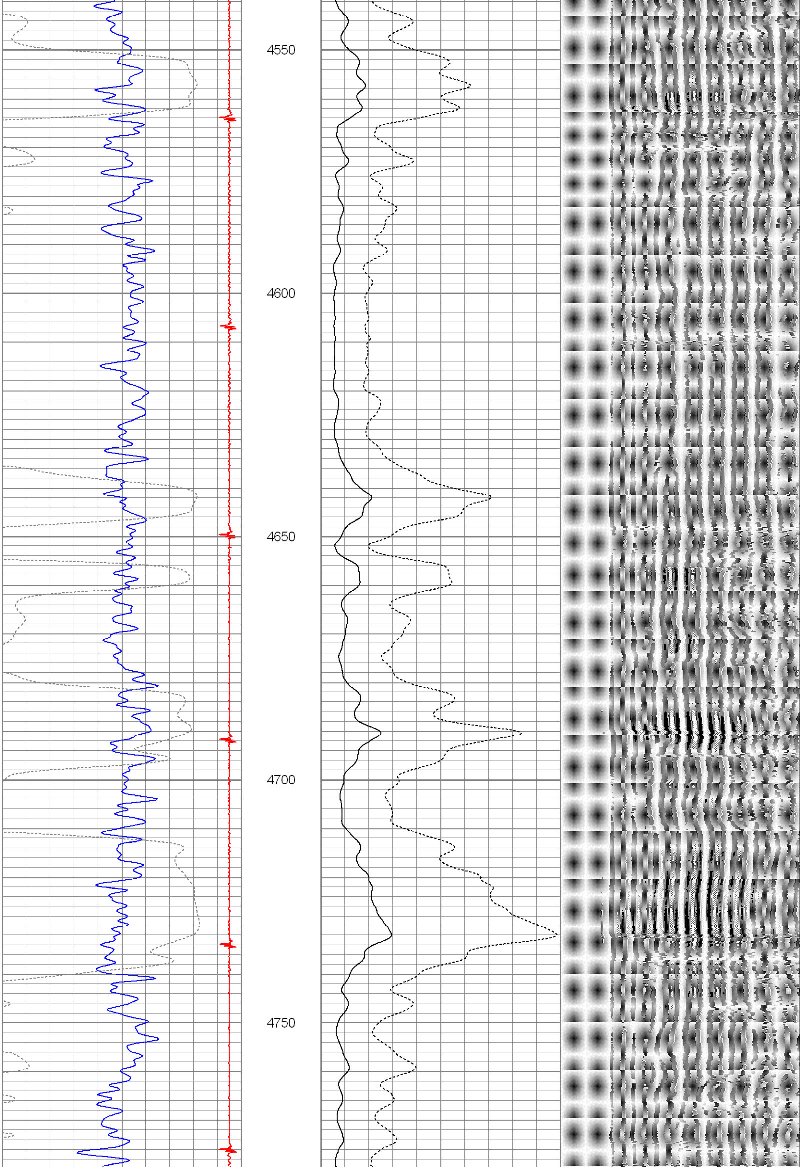


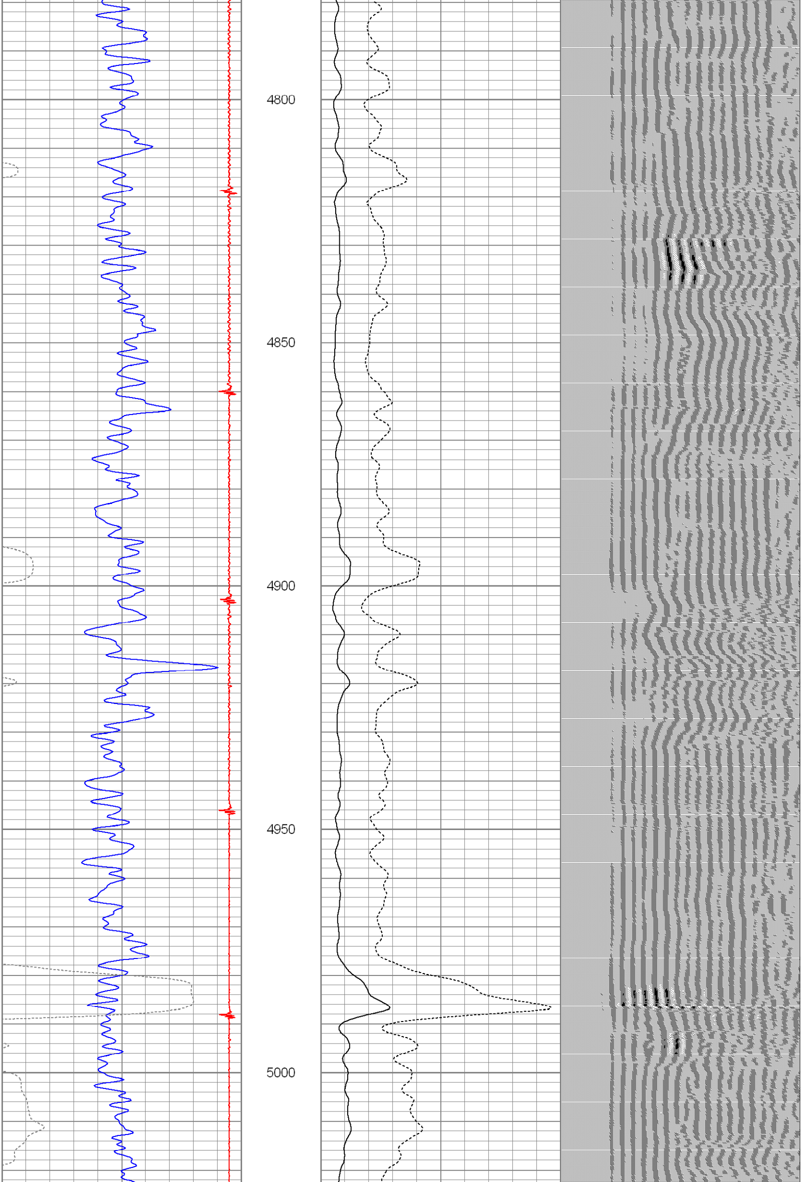
30	CCL	-1.5	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100		░ ▒ ▓ █	
350	TT3 (usec)	285						

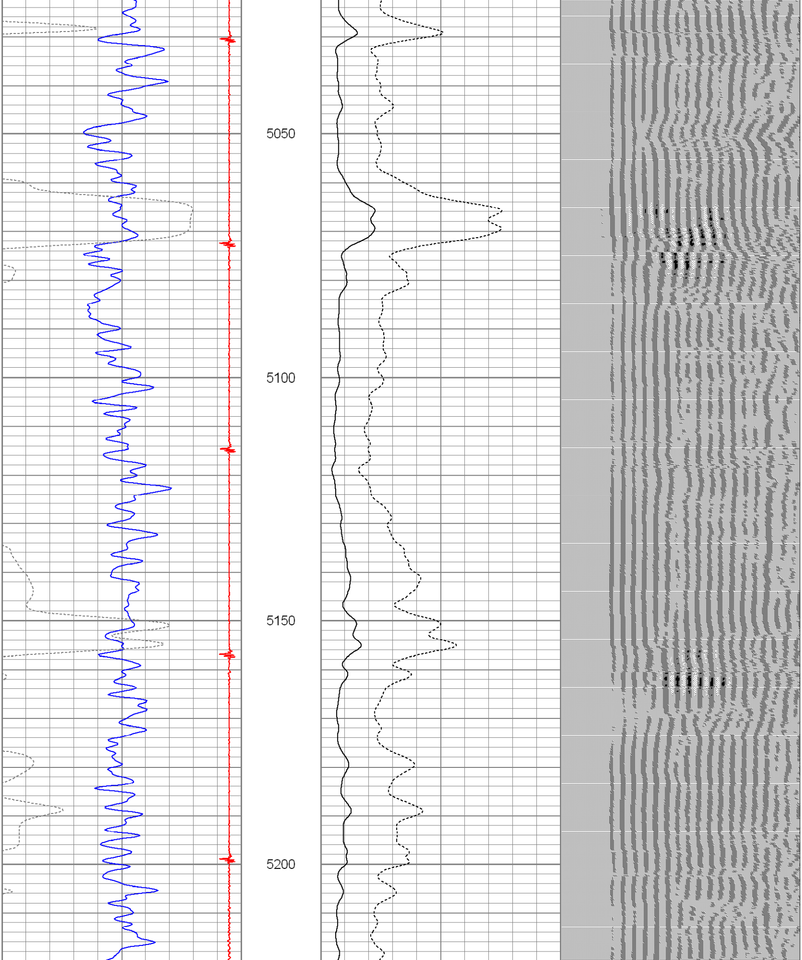
Database File:	cblbooth usx ee35-05.db
Dataset Pathname:	pass2
Presentation Format:	noble en
Dataset Creation:	Thu Nov 03 07:18:27 2011 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

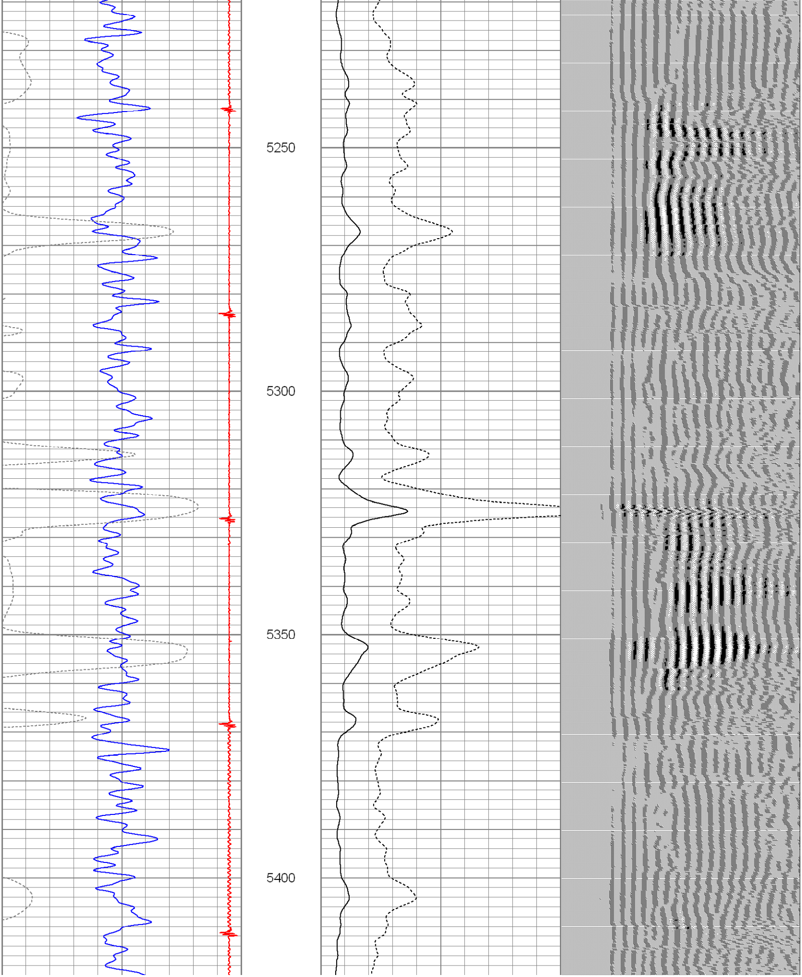
30	*CCL*	-1.5	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100		░ ▒ ▓ █	
350	TT3 (usec)	285						

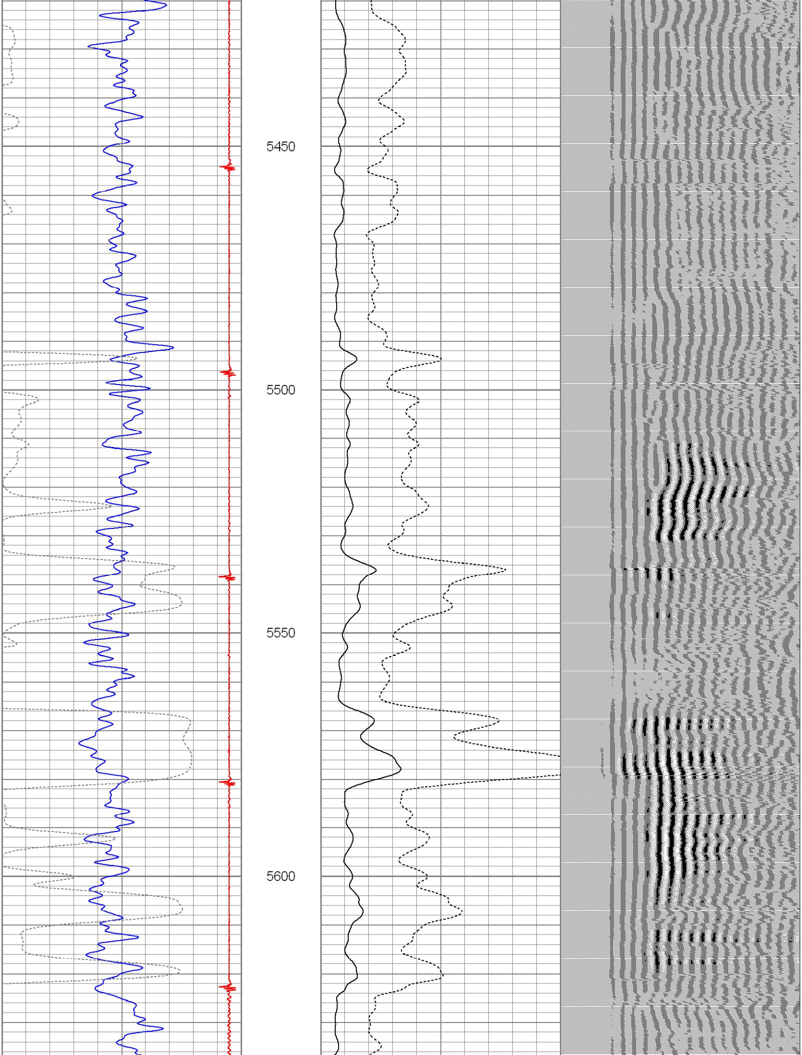


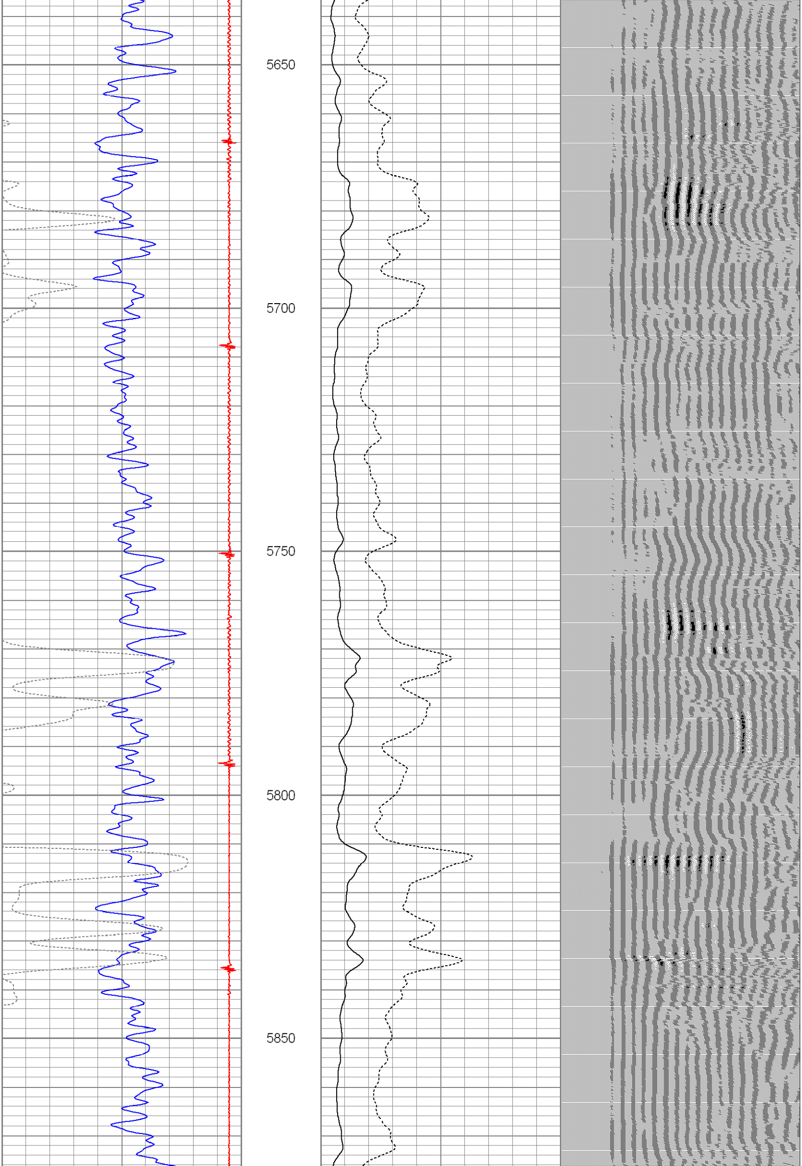


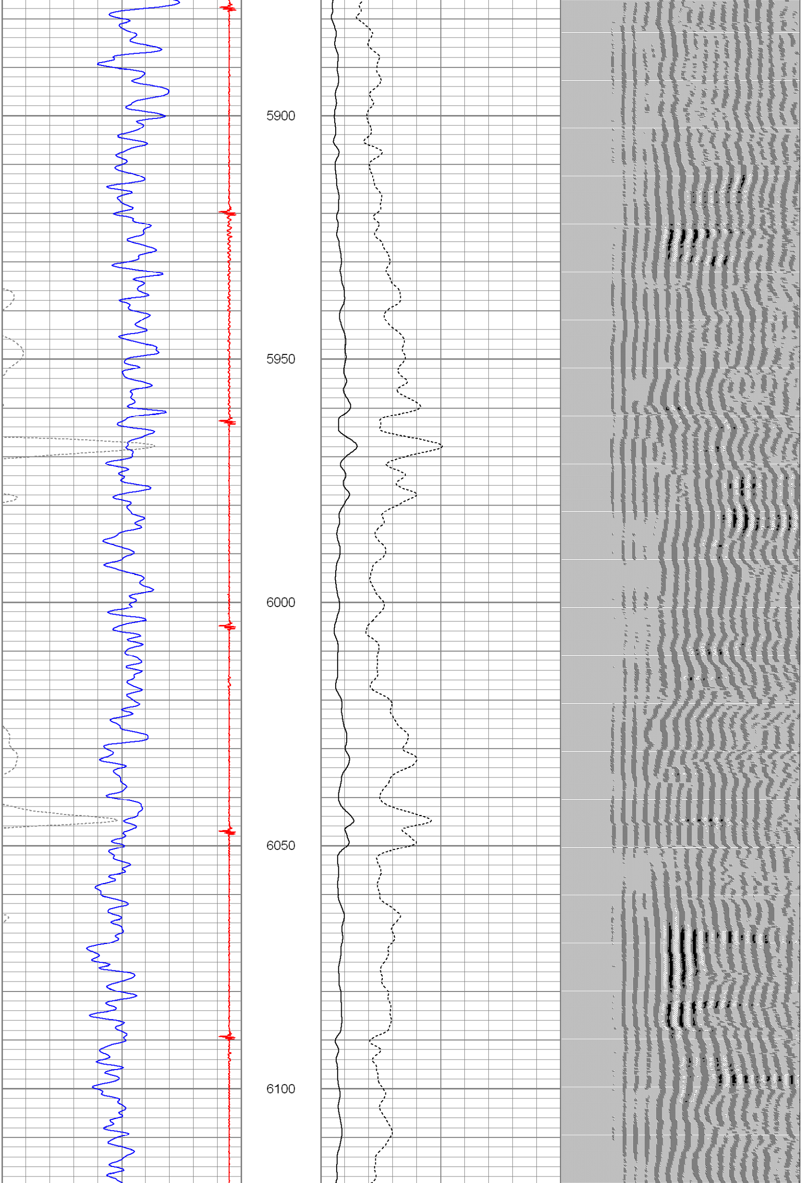


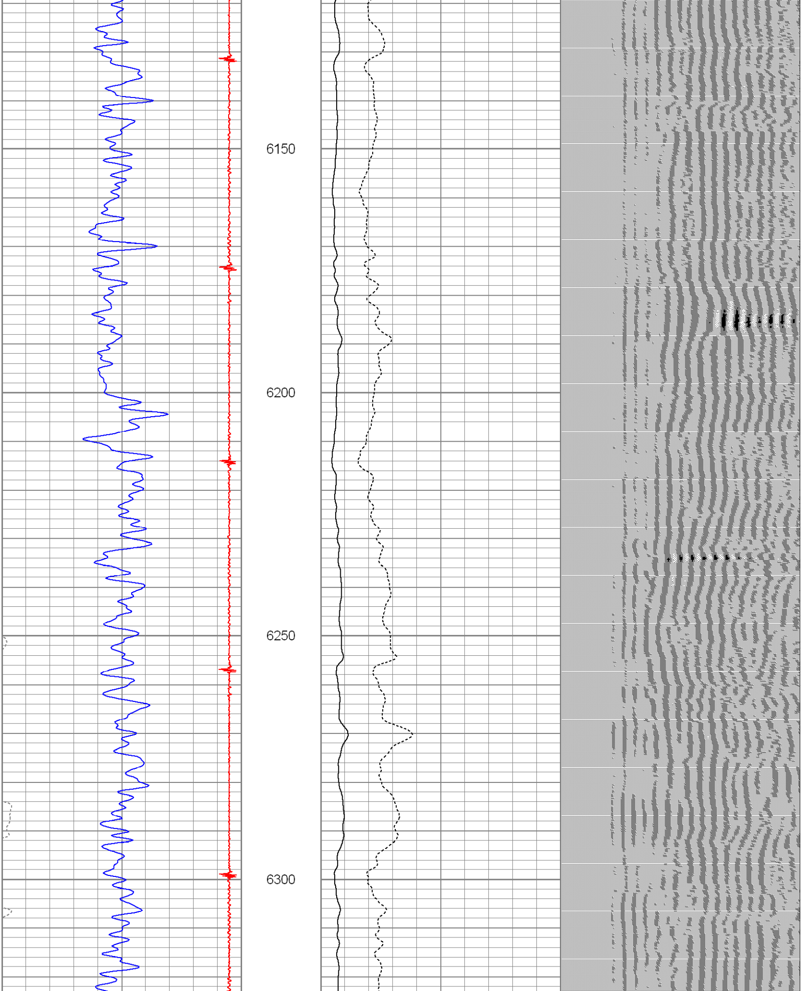


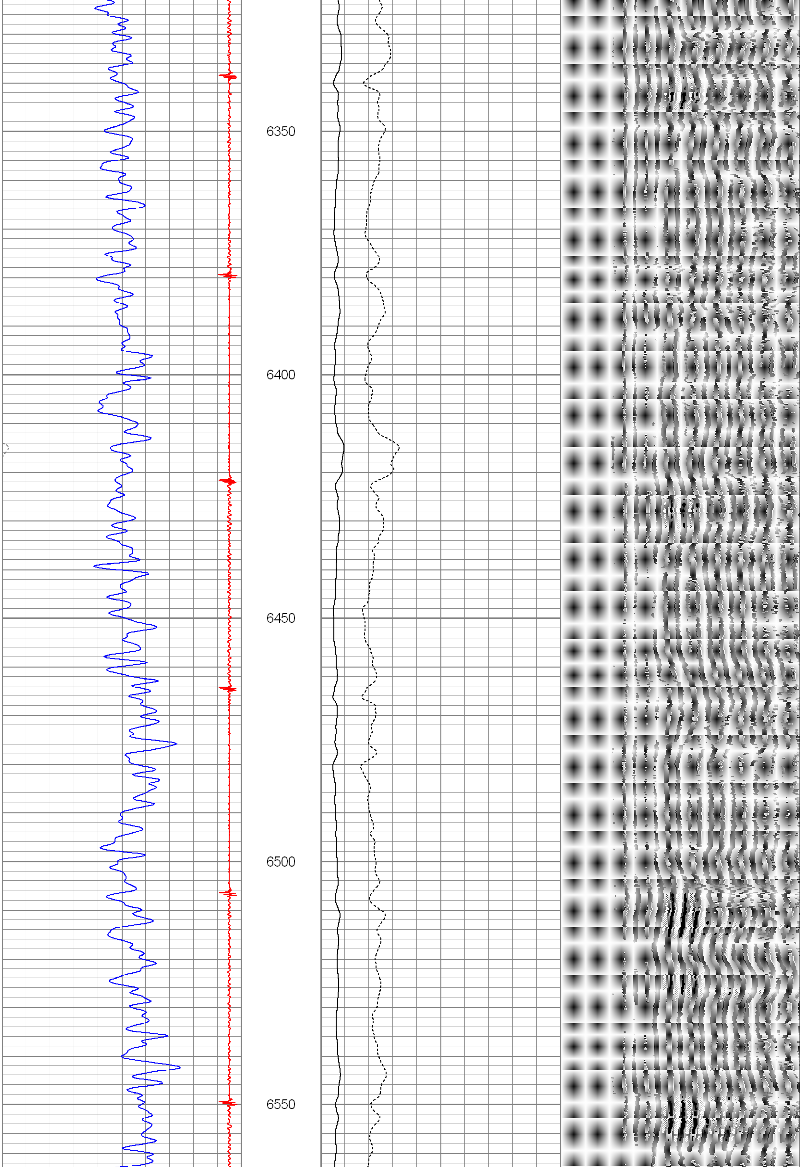


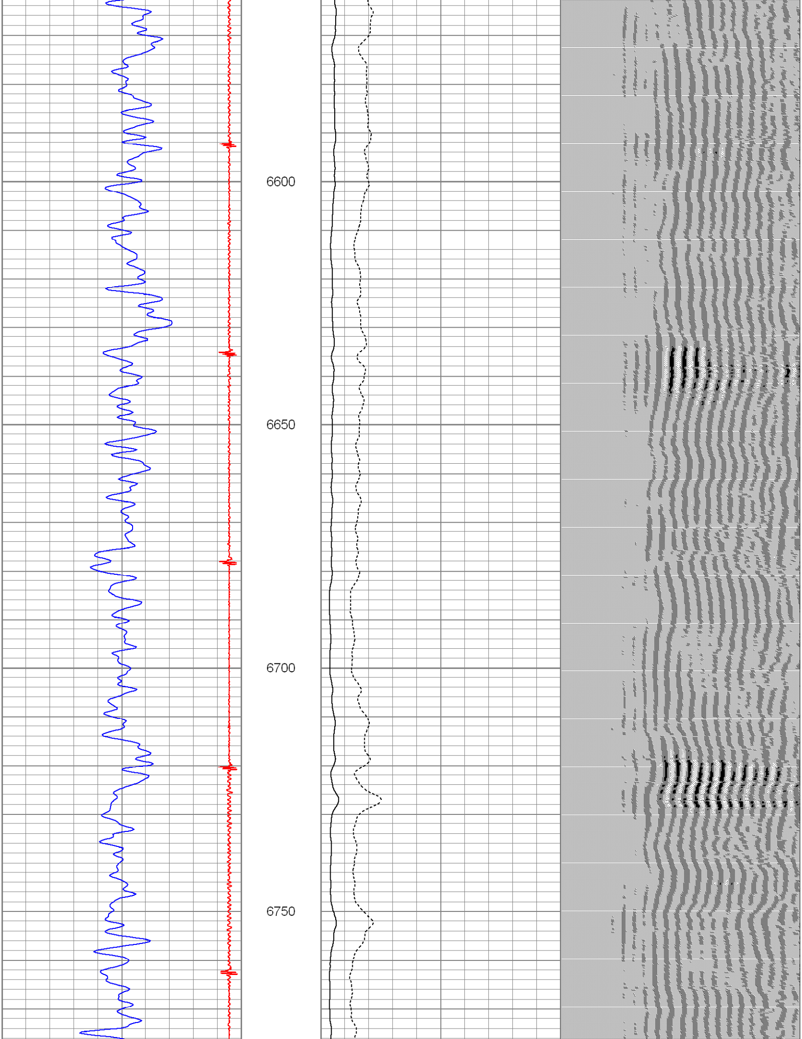


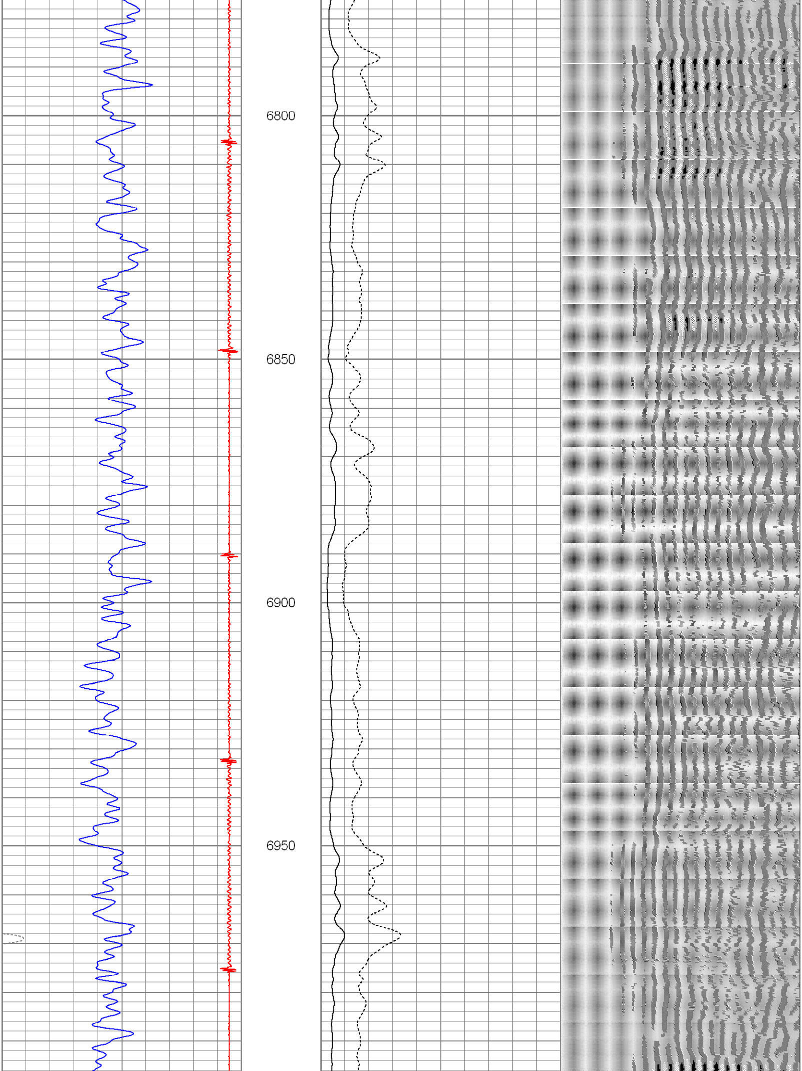


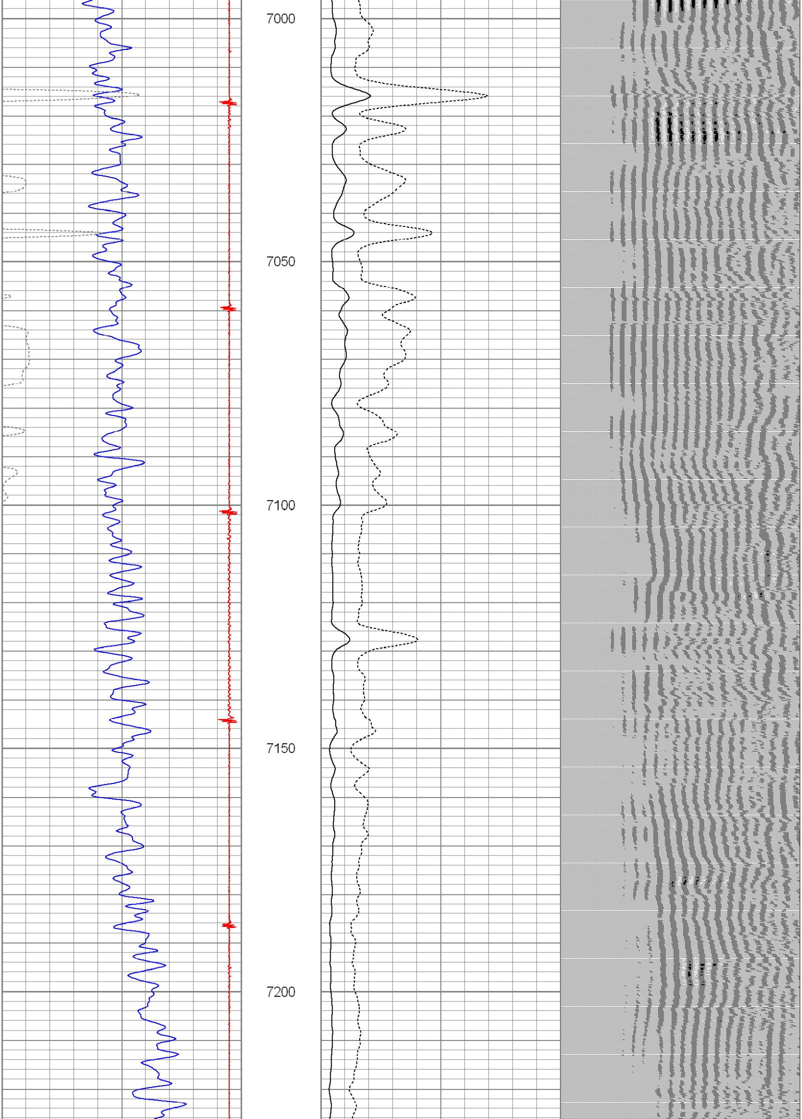


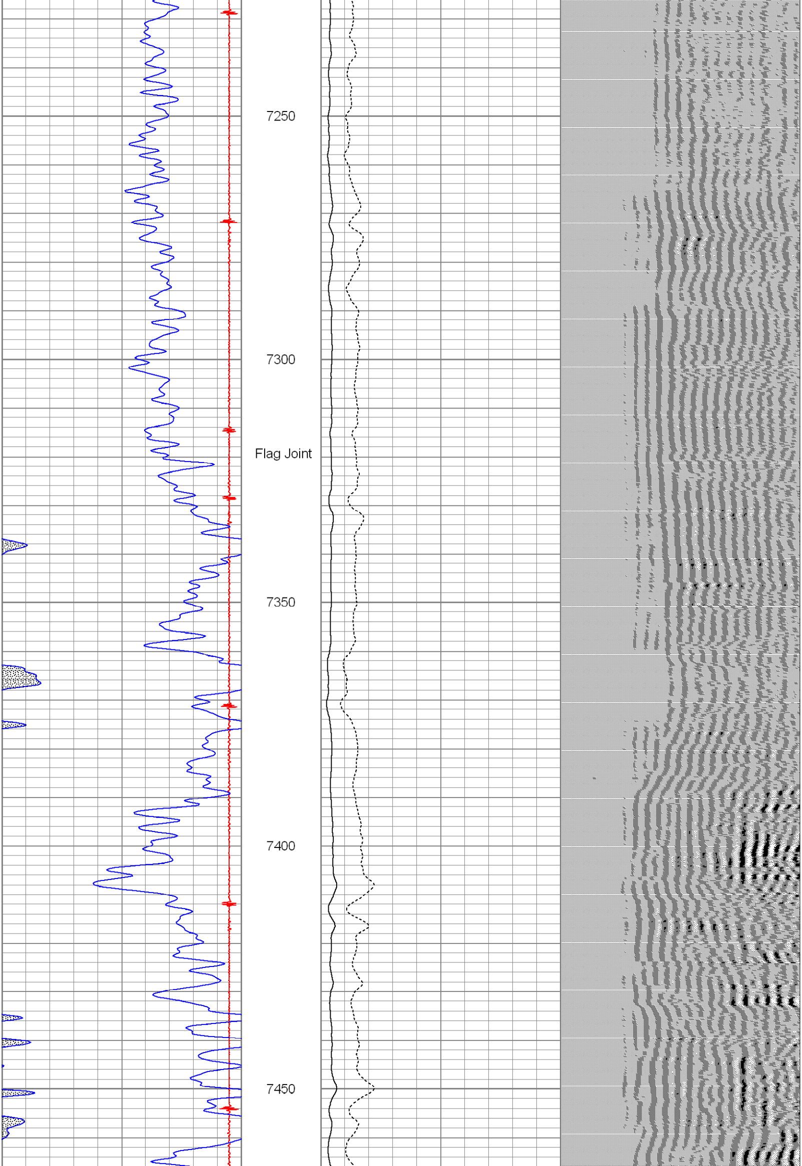


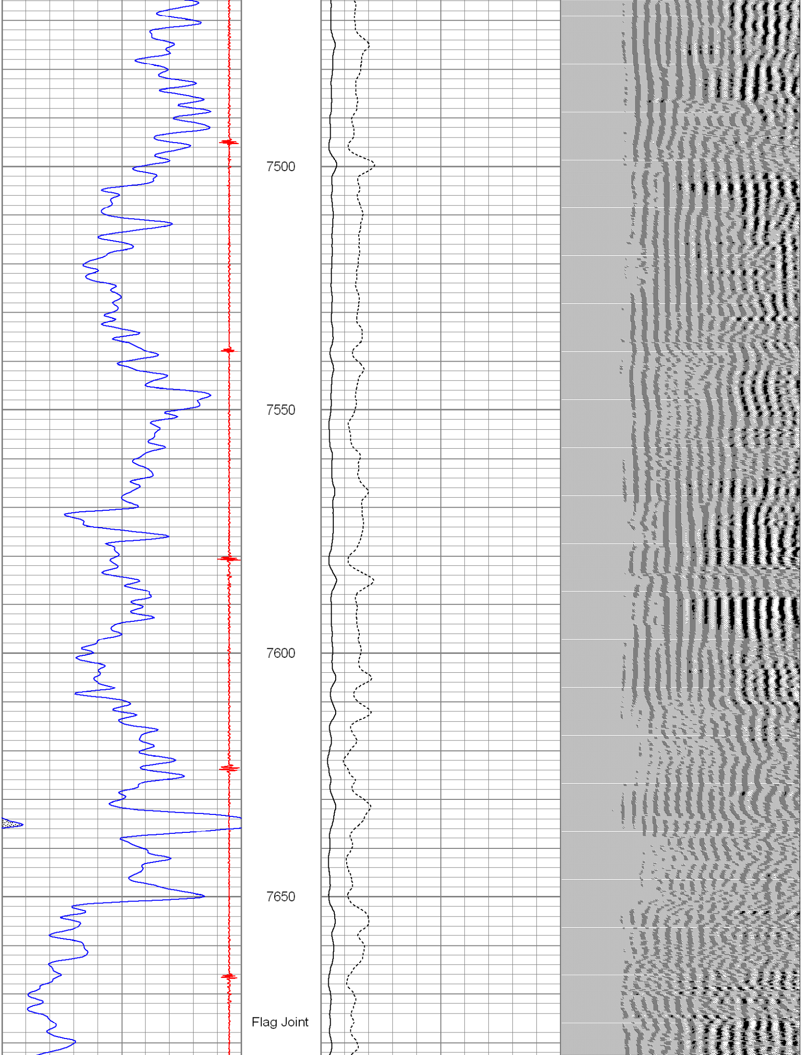


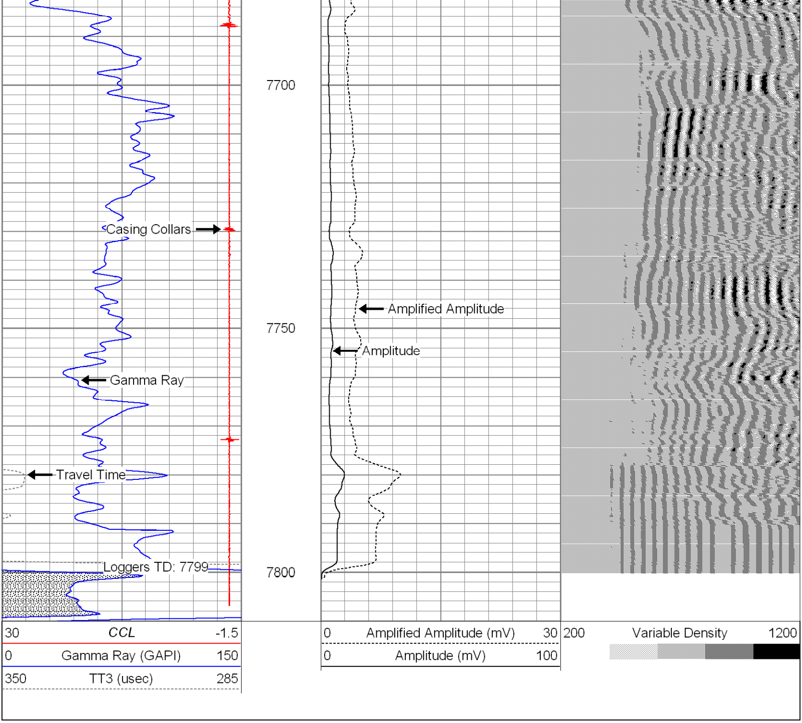












Calibration Report

Database File: cblbooth usx ee35-05.db
Dataset Pathname: pass3
Dataset Creation: Thu Nov 03 07:48:46 2011 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Thu Nov 03 07:19:05 2011				
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0		cps
Calibrator	0.0		cps
Difference		0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 110802
Tool Model: Probe275Digital
Performed: Thu Nov 03 06:56:16 2011

Depth: 625.725 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0131836	0.0130127	V
Reading in Free Pipe:	2.49878	2.46013	V
Gain:	32.3046	33.1803	
Offset:	0.47411	-0.431765	