SUPERIOR
WELL SERVICES

CEMENT BOND LOG
GAMMA RAY C C L
V D L

Company Noble Energy INC.
Well STROHAUER F 32-24
Field Wattenberg
County Weld
State Colorado

Company	Noble Energy INC.
Well	STROHAUER F 32-24
Field	Wattenberg
County	Weld	State	Colorado

Location: API # : 051233153000
1320' FSL & 2480' FEL
SW SE
SEC 32 TWP 5N RGE 65W

Other Services

Permanent Datum	GL	Elevation	4669
Log Measured From	KB 15'		
Drilling Measured From	KB		

Elevation
K.B. 4684
D.F. 4683
G.L. 4669

Date	December 23, 2010		
Run Number	ONE		
Depth Driller	7270		
Depth Logger	7154		
Bottom Logged Interval	7153		
Top Log Interval	885		
Casing Size	4 1/2"		
Type Fluid	Water		
Max. Recorded Temp.	247 deg F		
Estimated Cement Top	2026		
Time Well Ready	Mast Truck		
Time Logger On Bottom	AM		
Unit Number	3344		
Tool Size / ID Number	2.75 Tool 1 BLK		
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	8 5/8"	24 lb/ft J-55	Surface	833.8
Prot. String				
Production String	4 1/2"	11.6 lb/ft M-80	Surface	7252.5
Liner				

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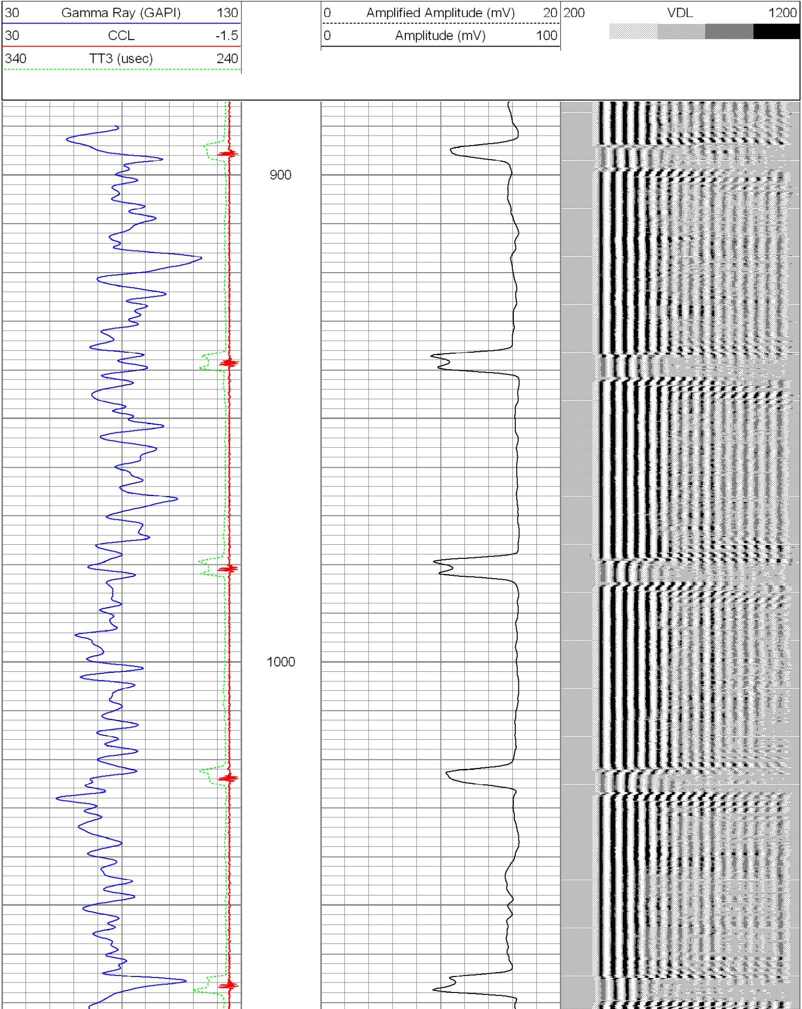
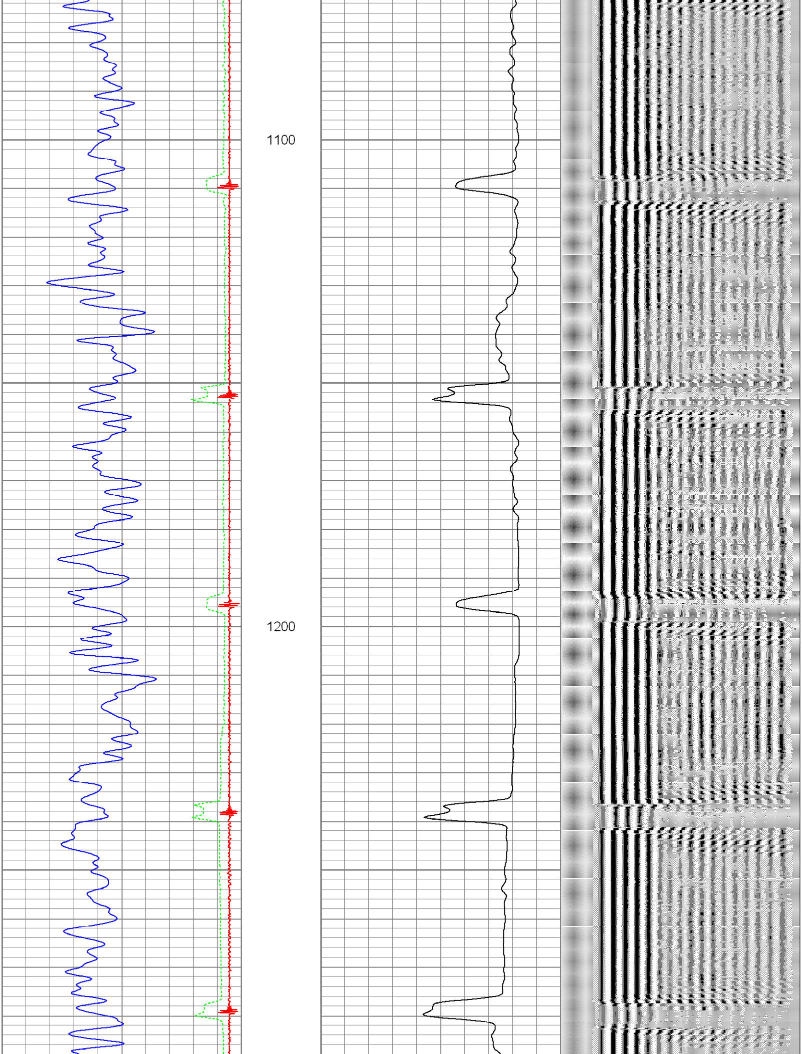
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

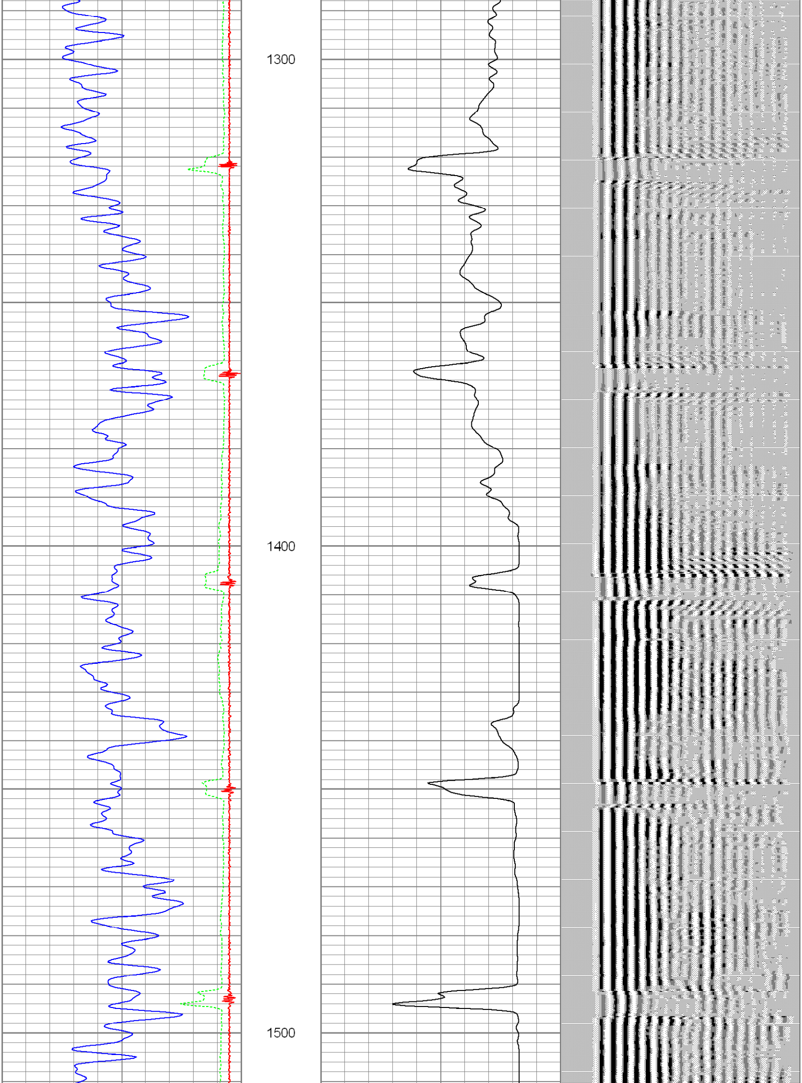
Comments

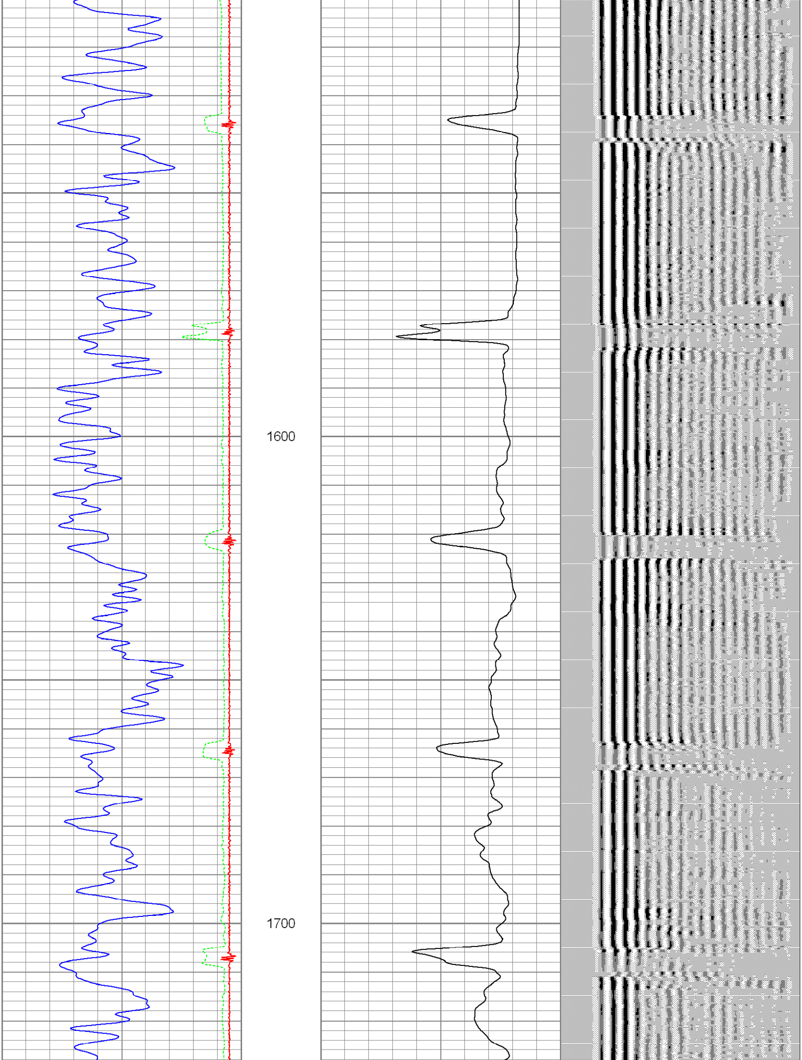
Thank You For Choosing Superior Well Services!!!
API# 05-123-31530-00
Correlated To PSI's
Compensated Density / Compensated Neutron / Gamma Ray Microlog
Dated: December 9, 2010
Southern Most Well of 2 Well Pad

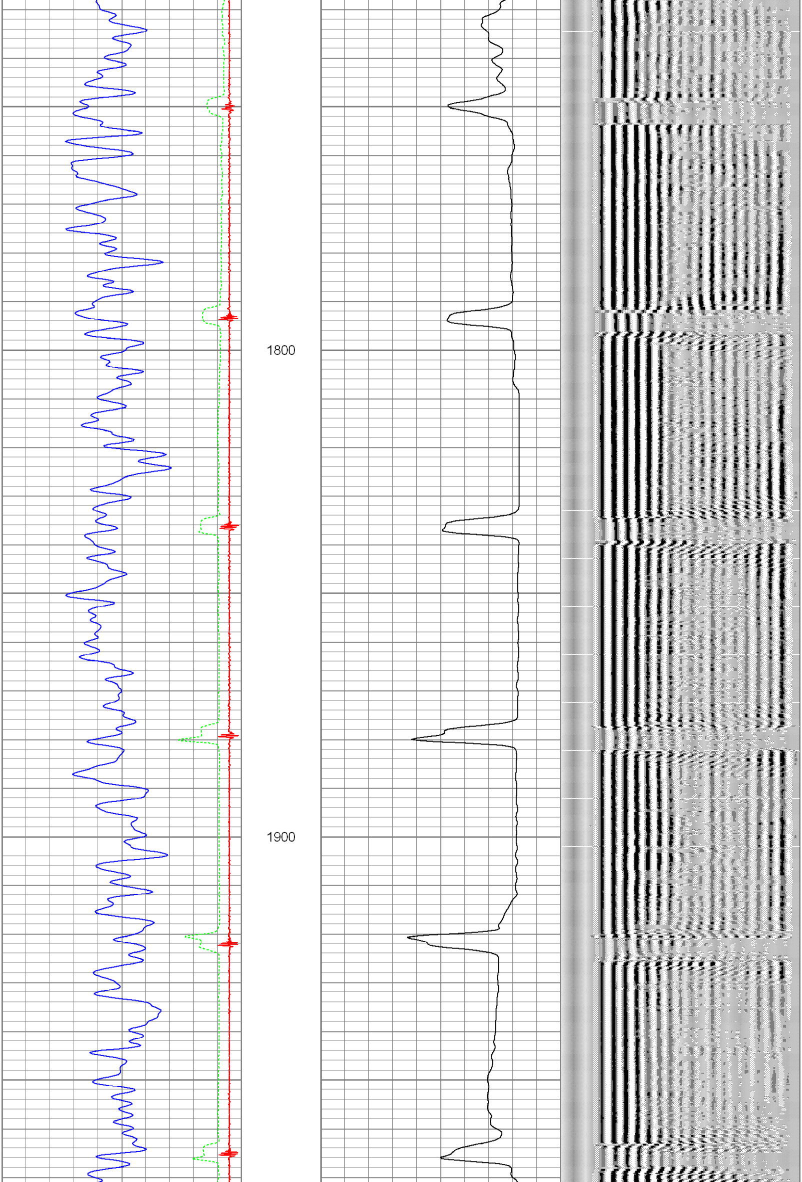
Database File:	cblstrohauer f32-24.db
Dataset Pathname:	pass3
Presentation Format:	nuexbond
Dataset Creation:	Thu Dec 23 09:36:34 2010 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

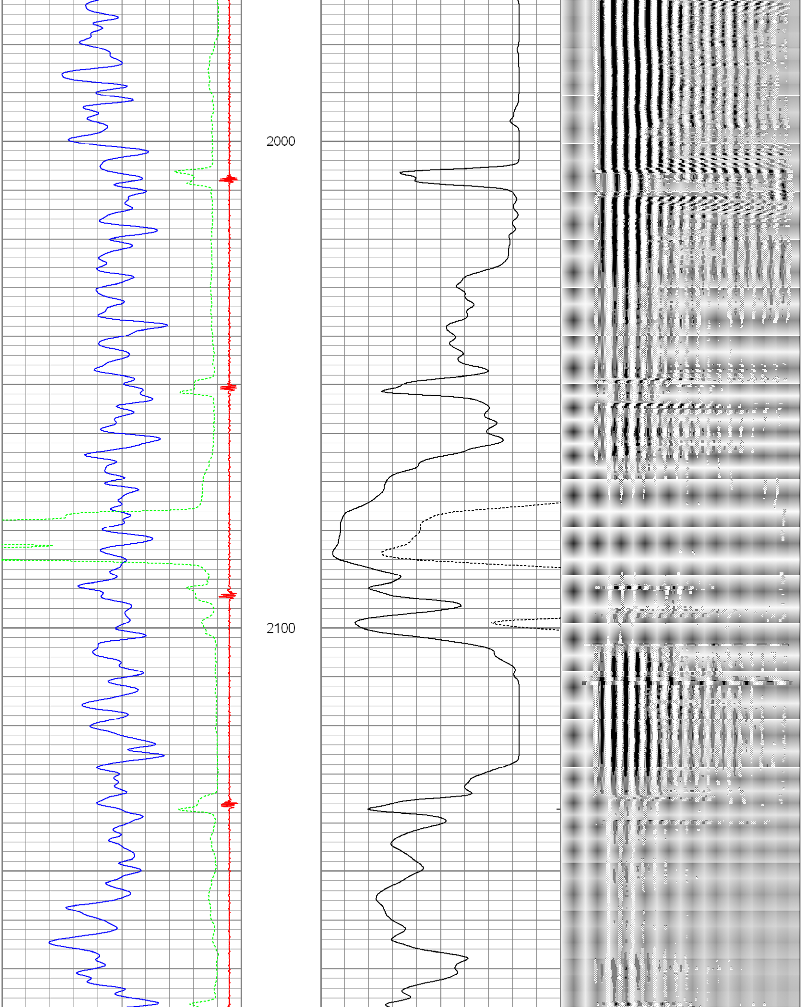


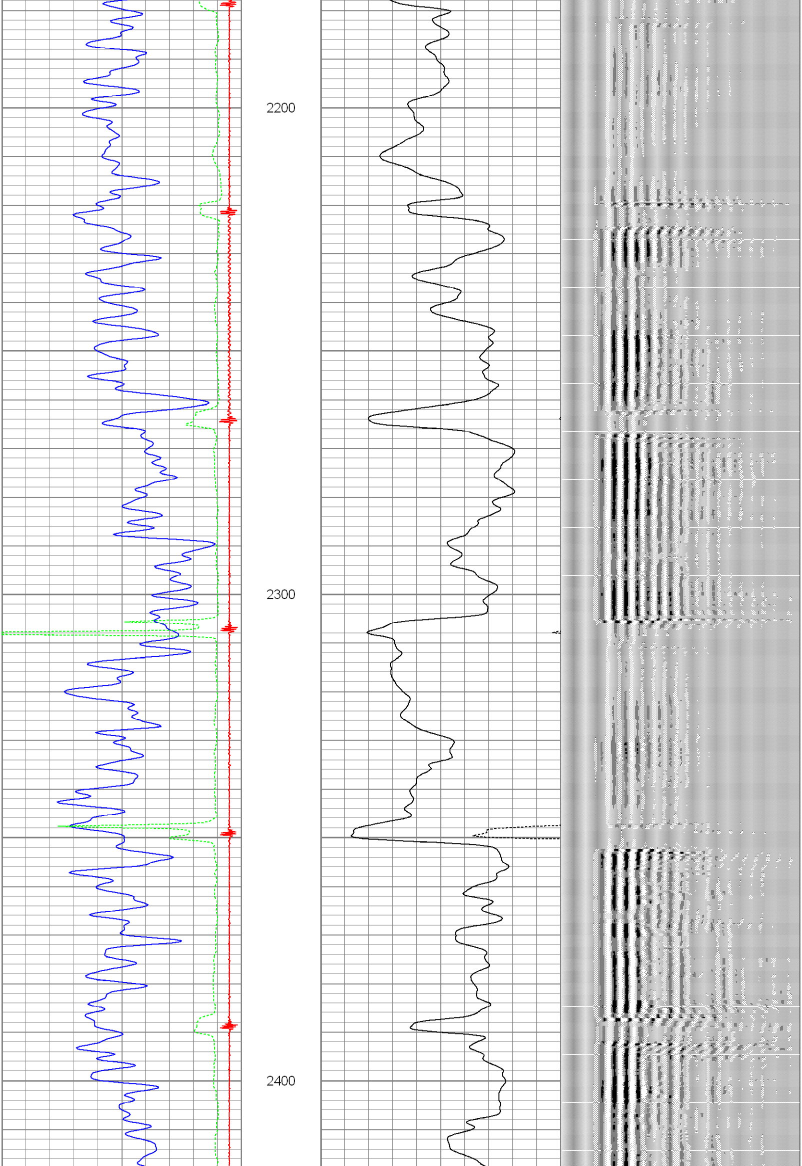


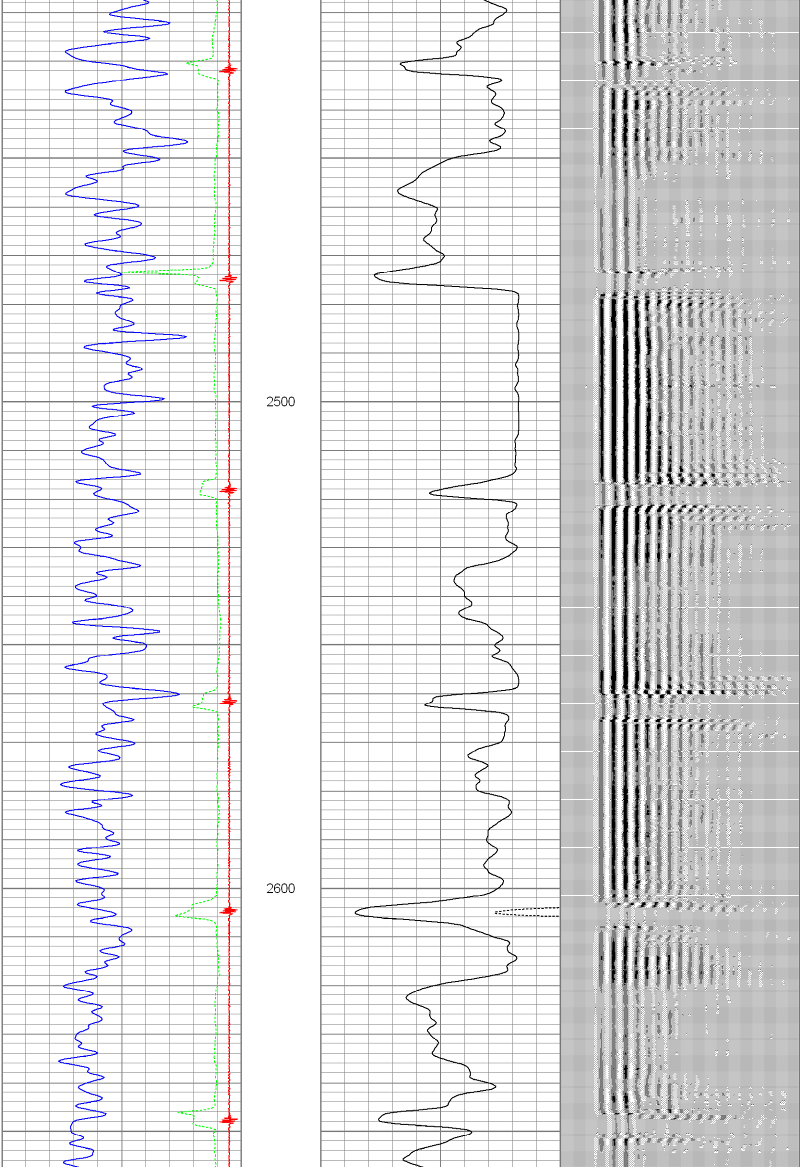


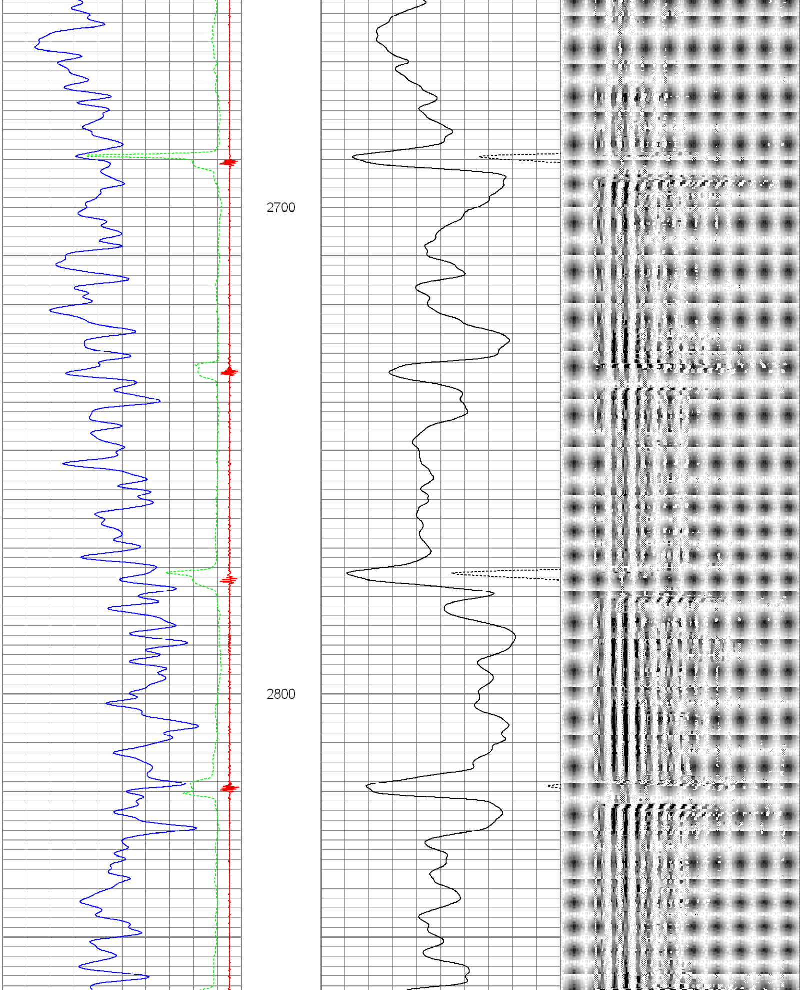


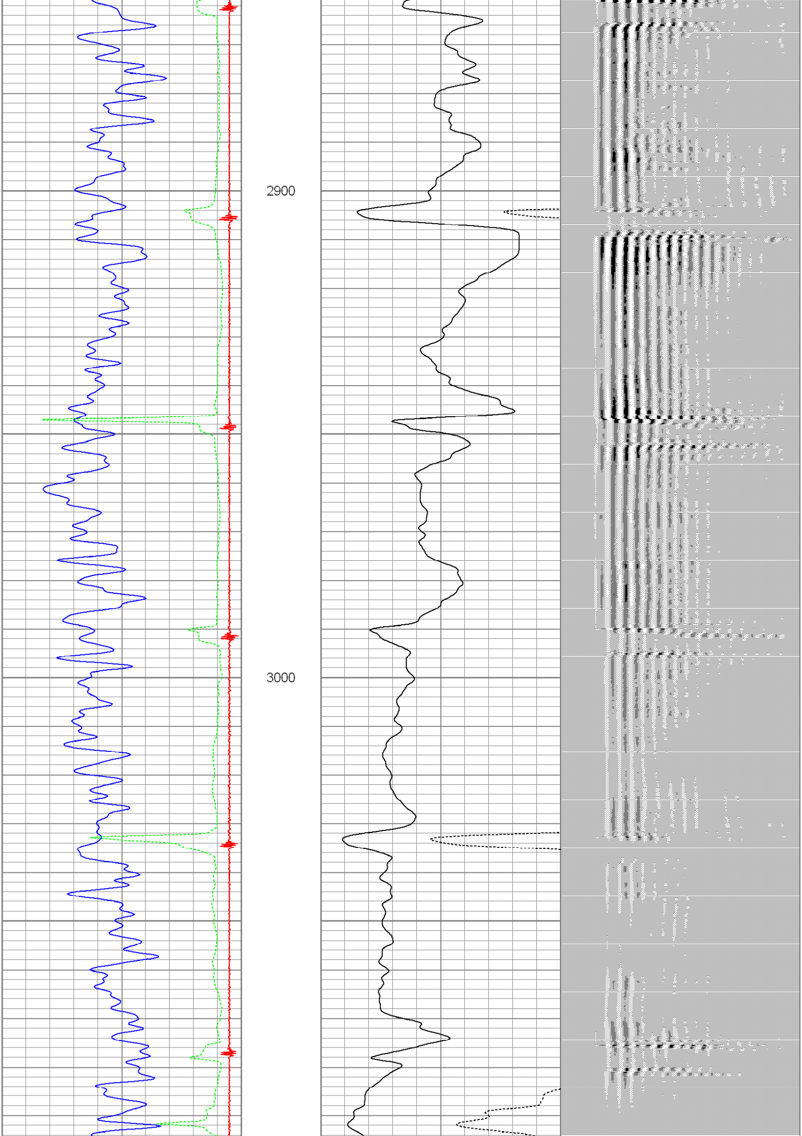


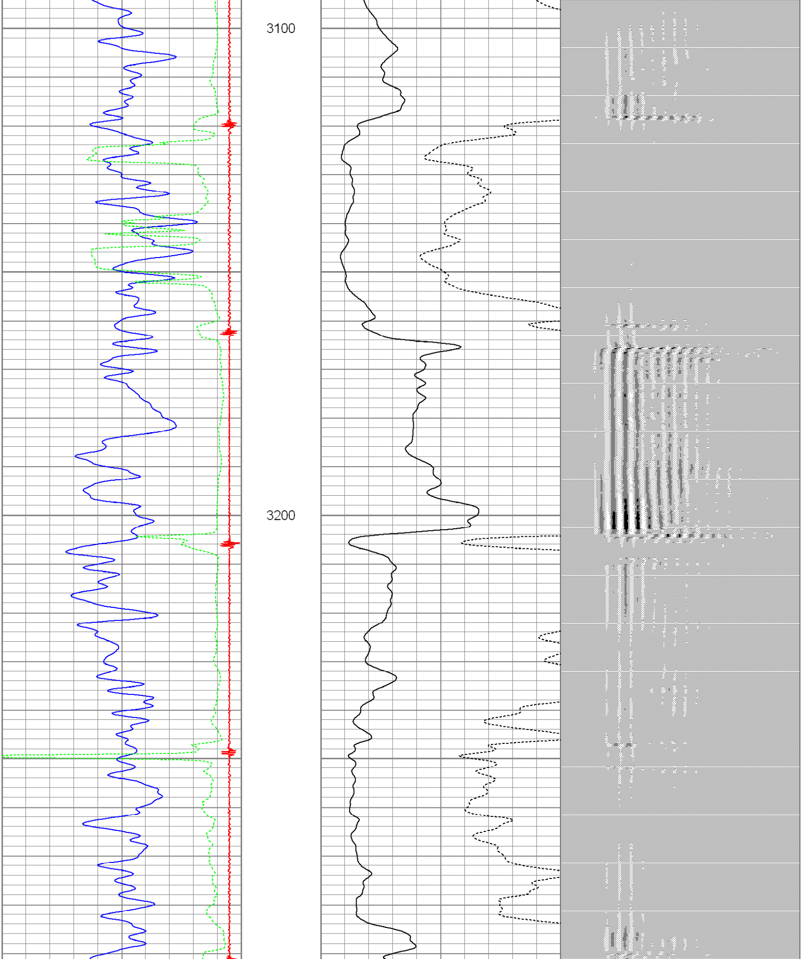


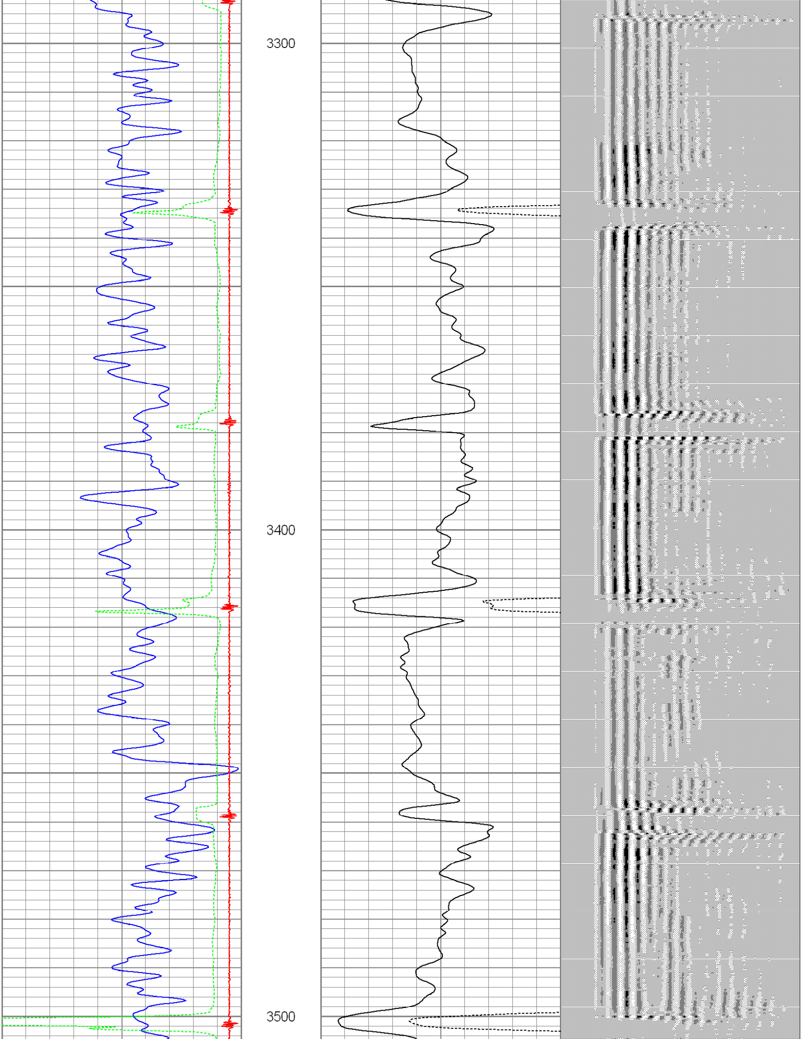


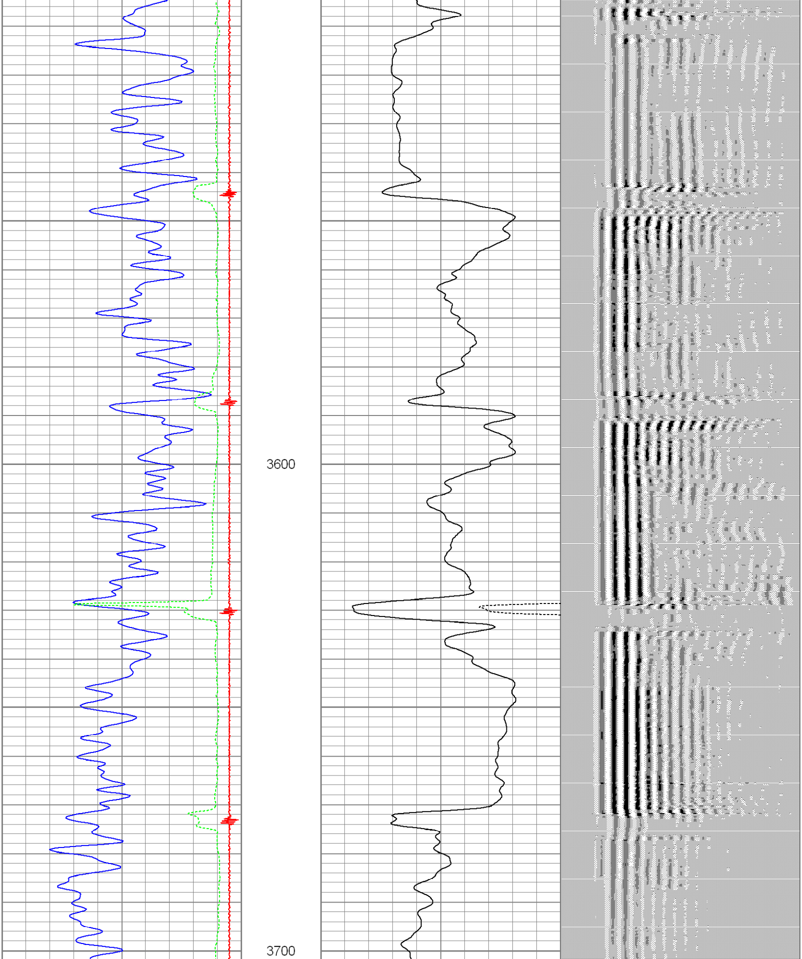


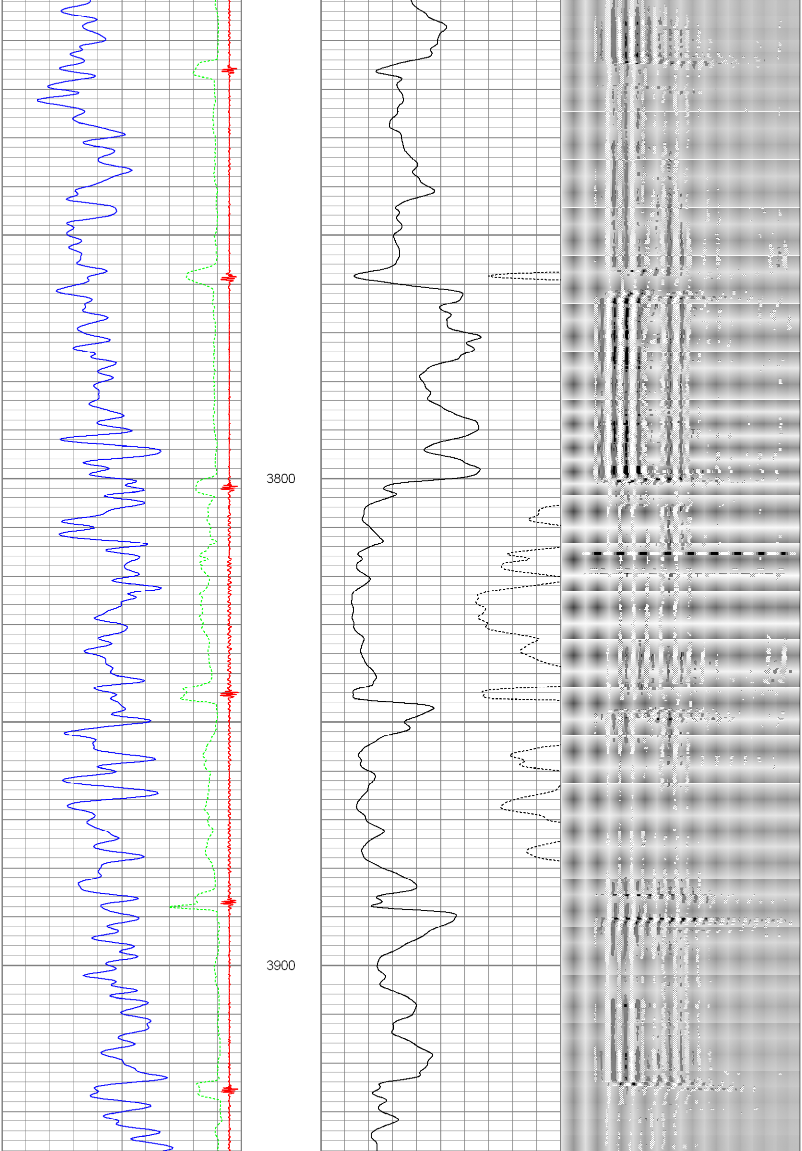


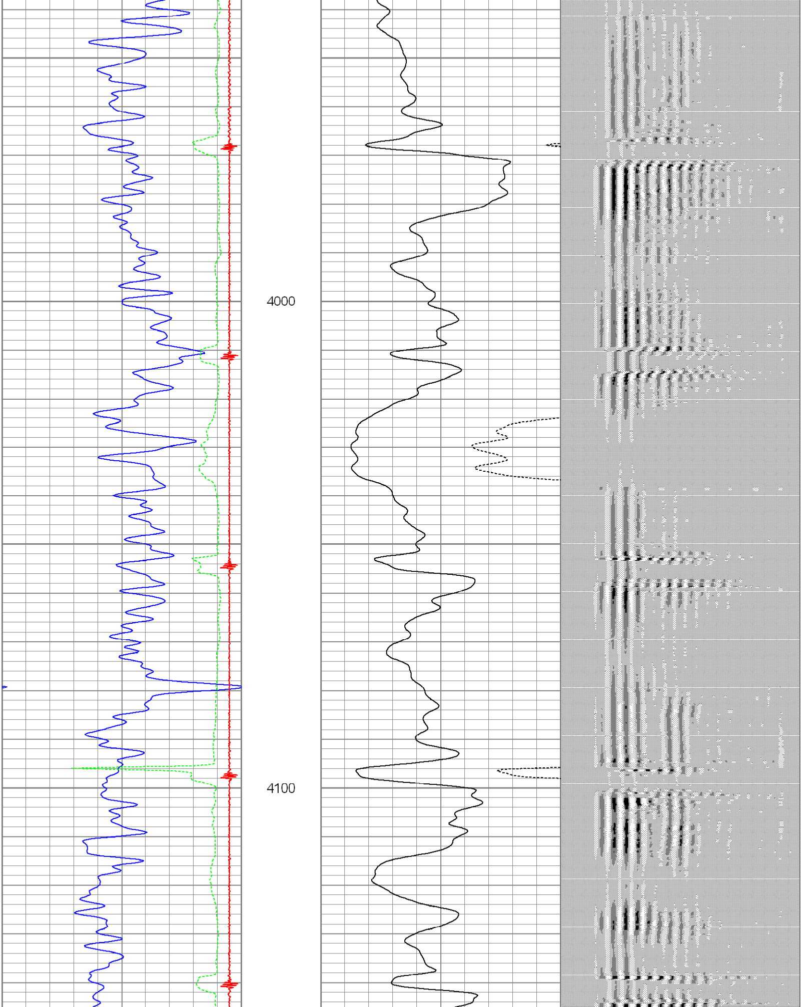


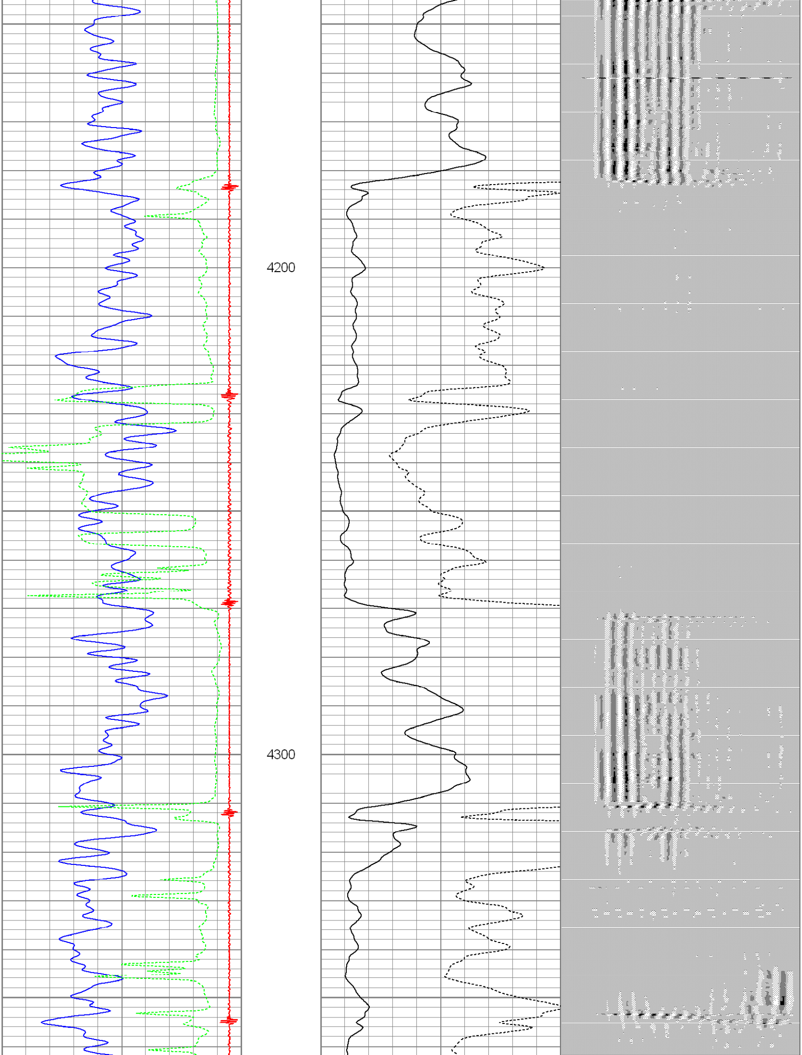


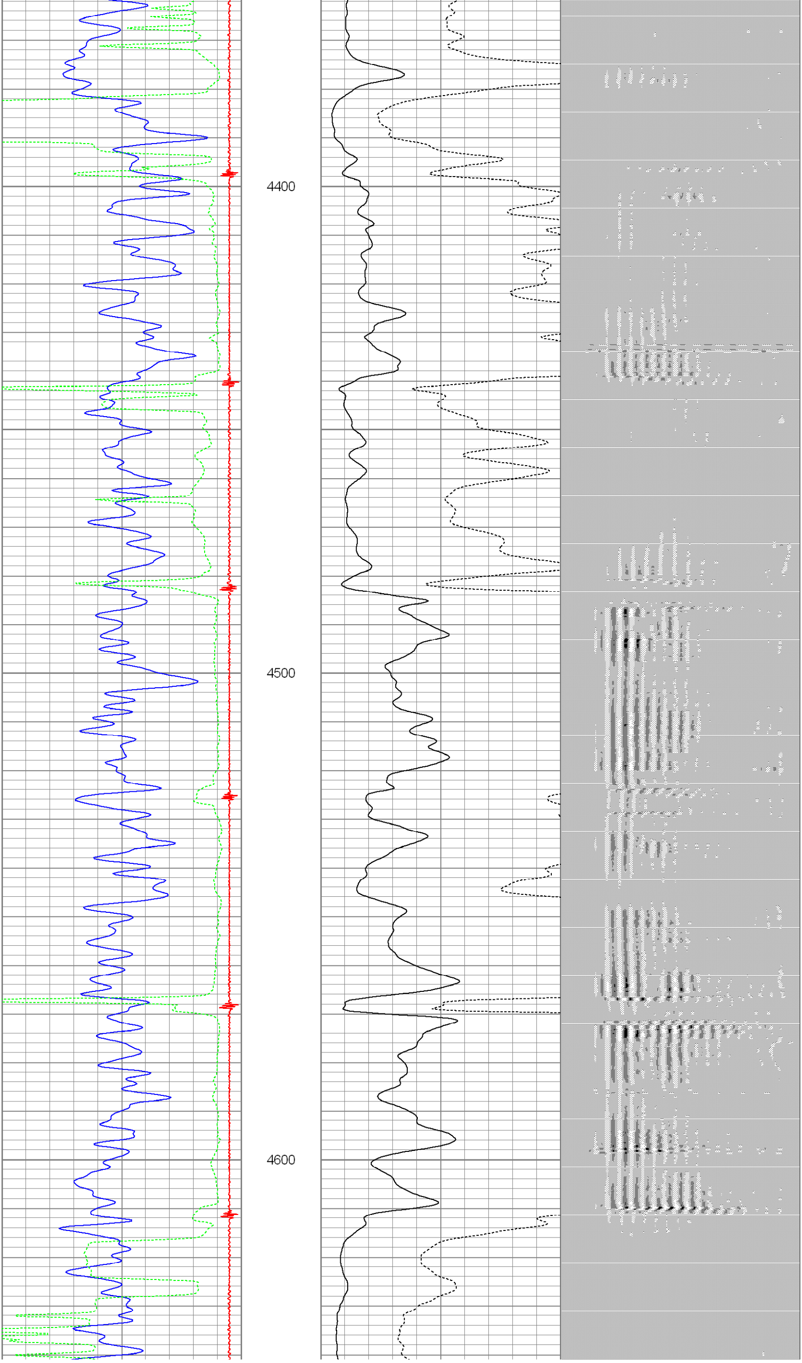


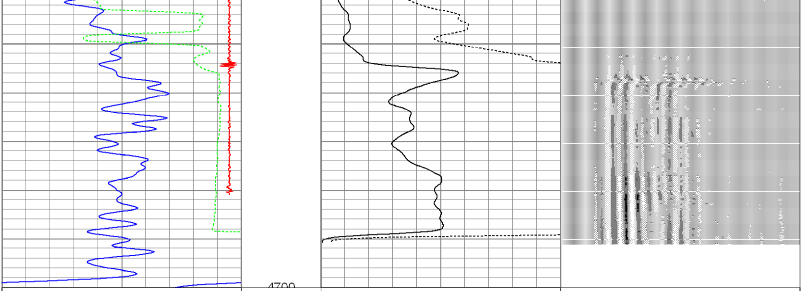








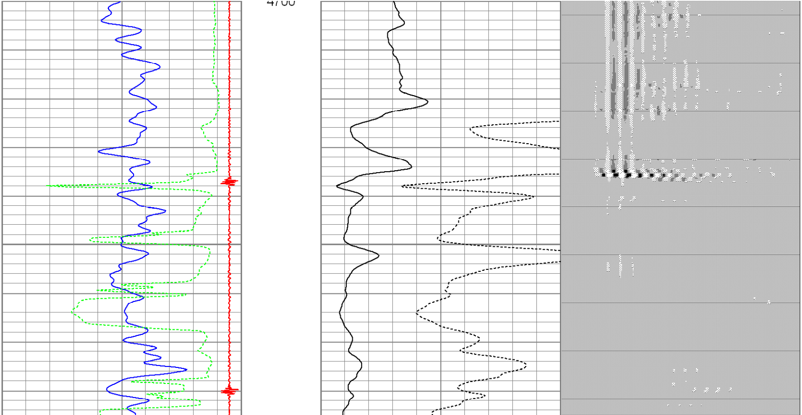


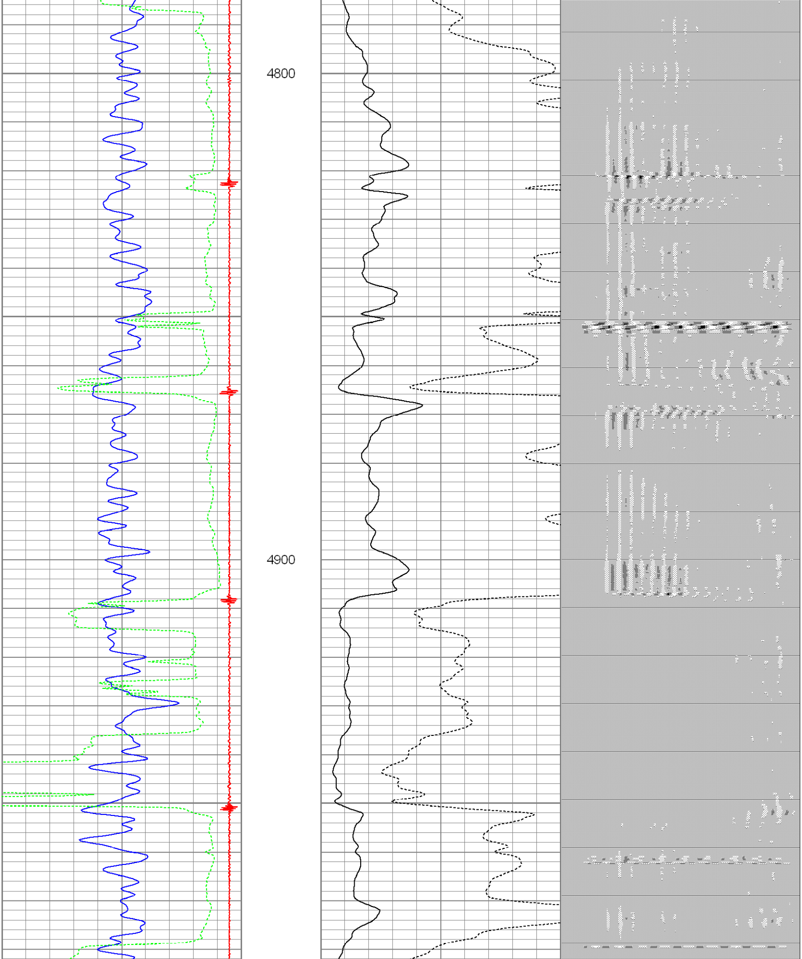


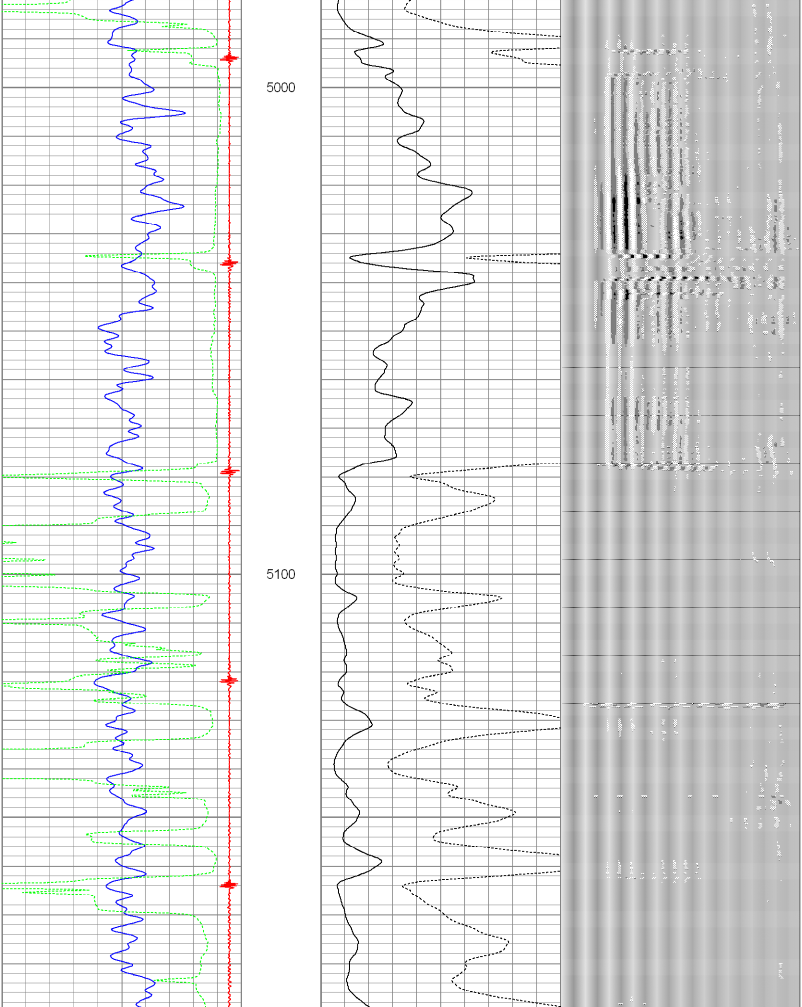
30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	20	200	VDL	1200
30	CCL	-1.5	0	Amplitude (mV)	100		░ ▒ ▓ █	
340	TT3 (usec)	240						

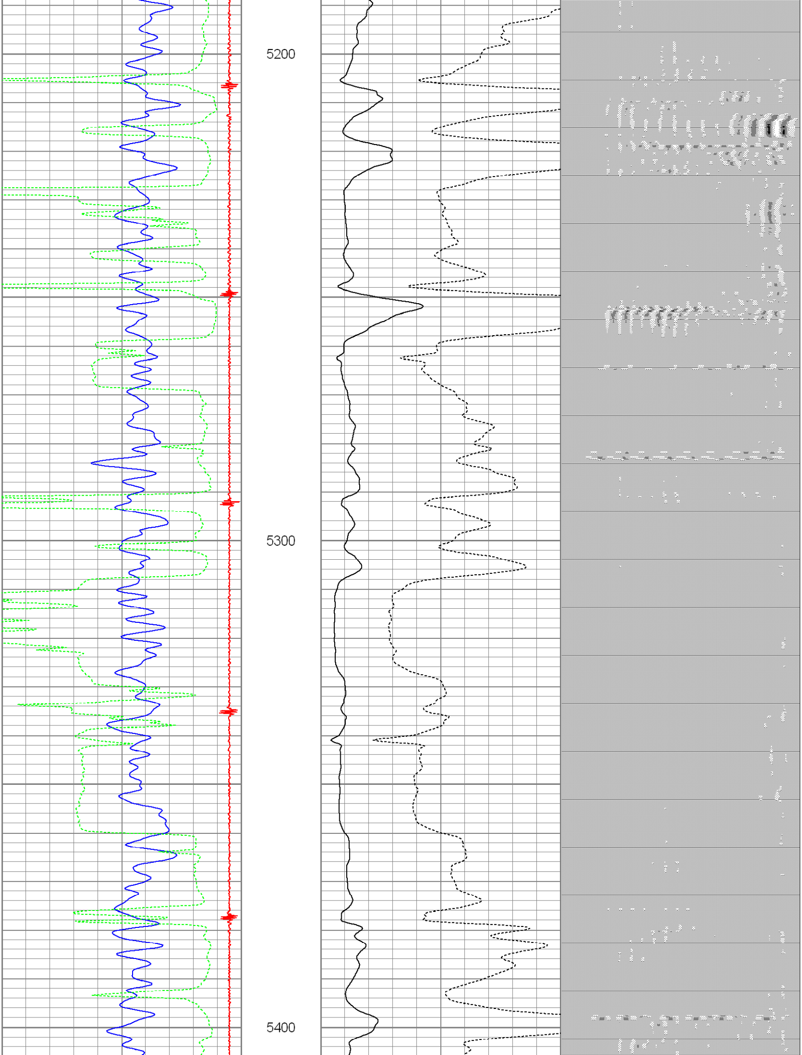
Database File: cblstrohauer f32-24.db
Dataset Pathname: pass2
Presentation Format: nuexbond
Dataset Creation: Thu Dec 23 09:15:41 2010 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

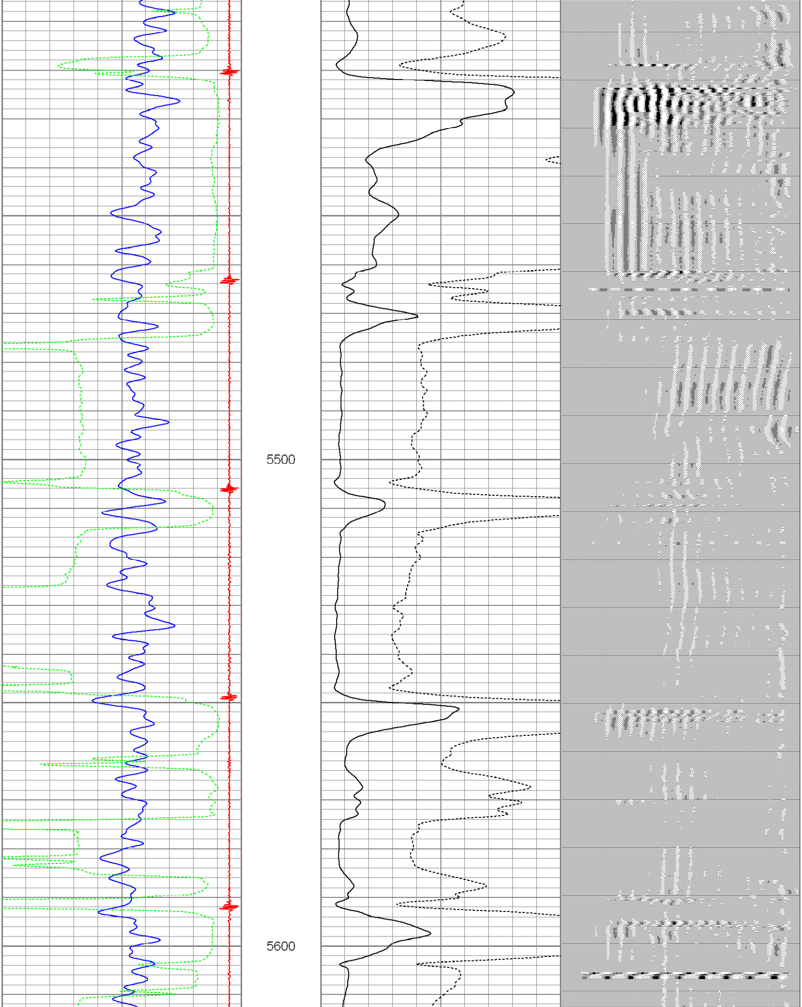
0	Gamma Ray (GAPI)	150	0	Amplified Amplitude (mV)	20	200	VDL	1200
30	CCL	-1.5	0	Amplitude (mV)	100		░ ▒ ▓ █	
340	TT3 (usec)	240						

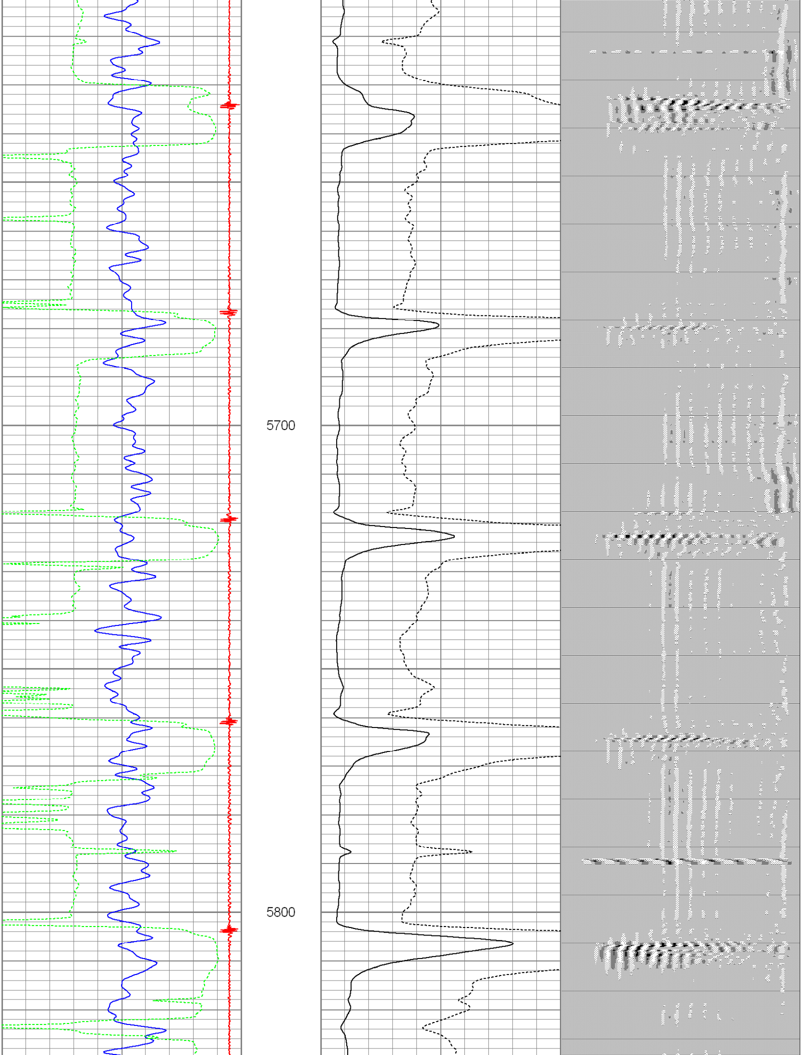


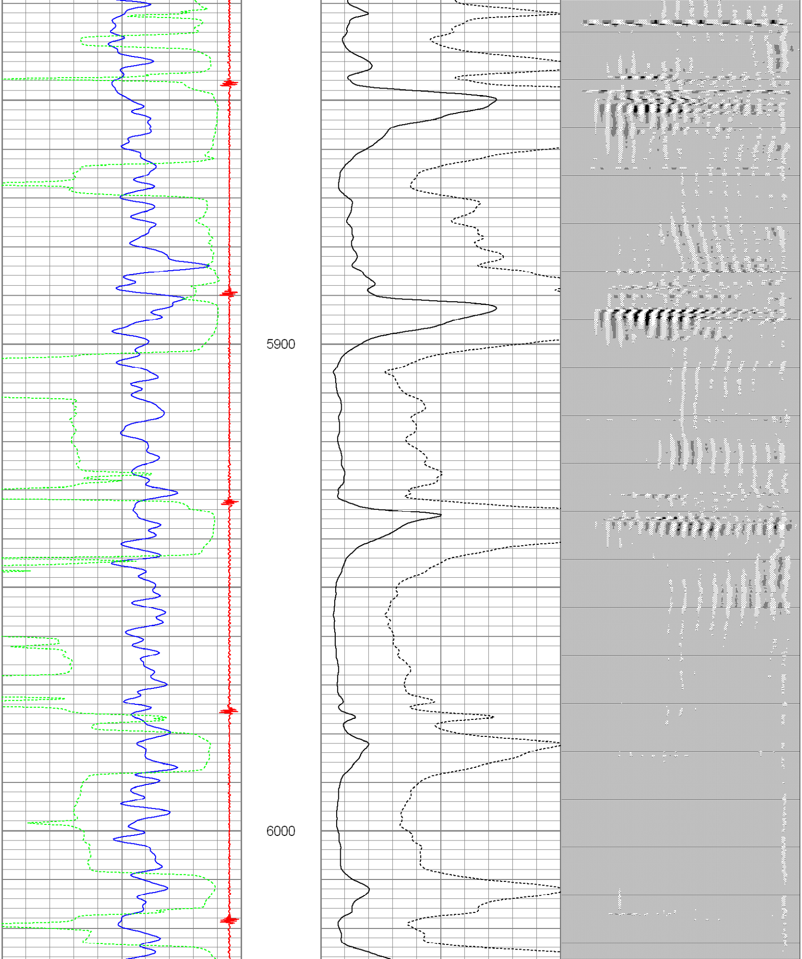


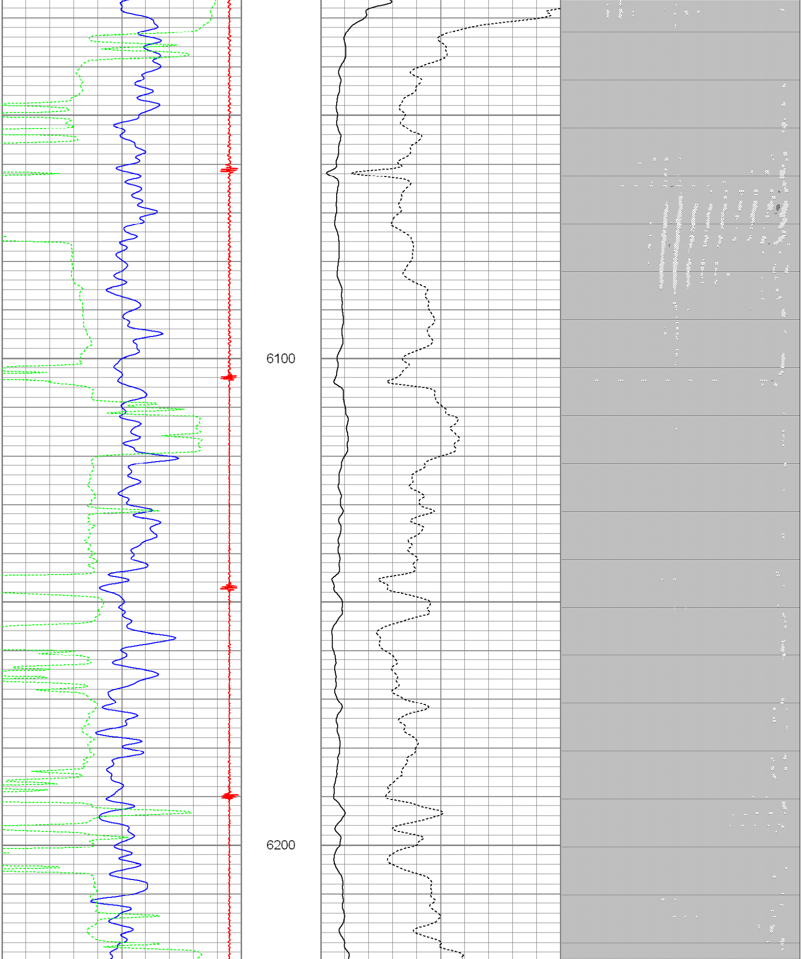


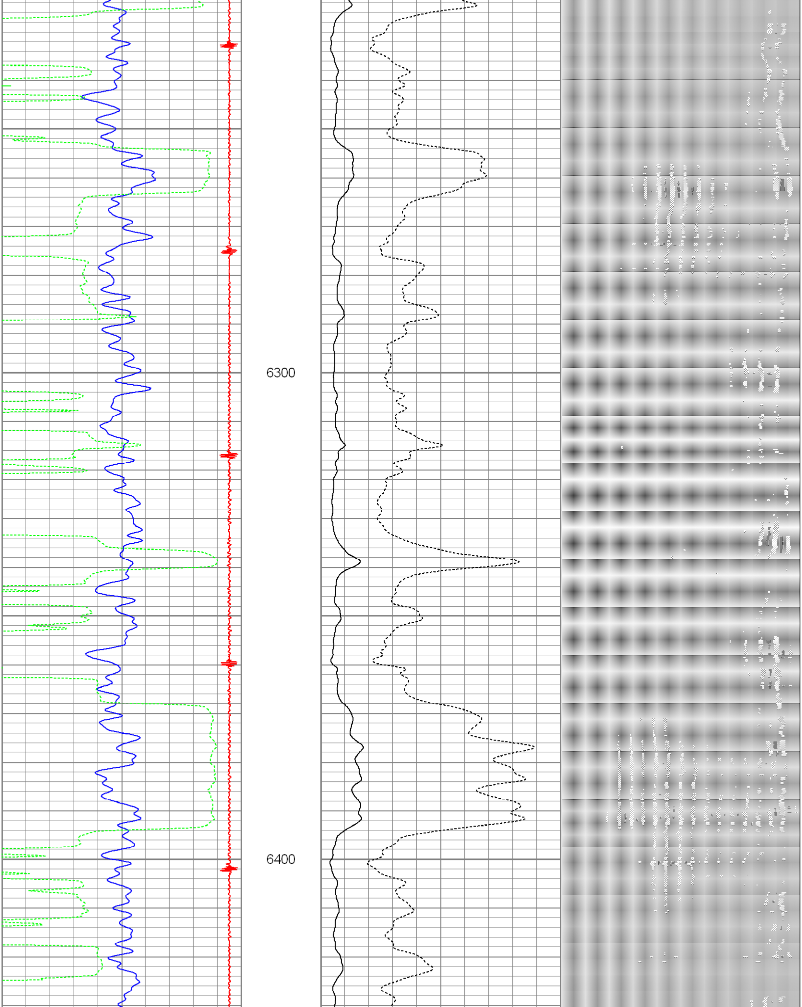


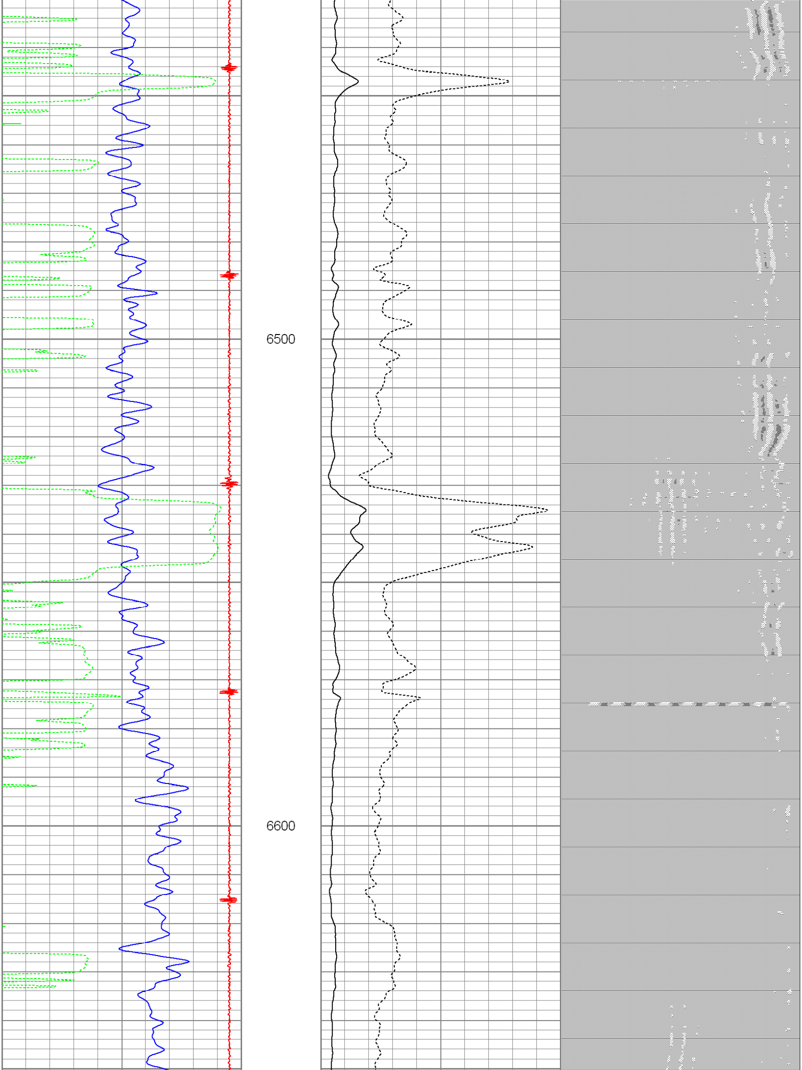


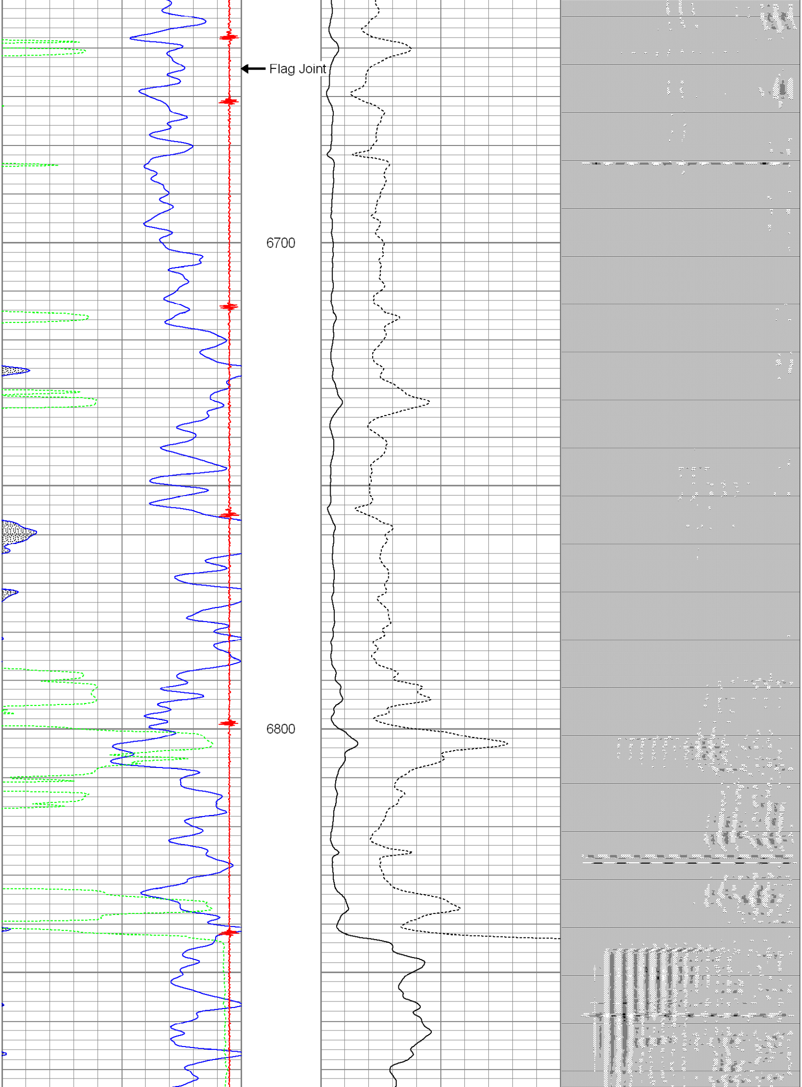


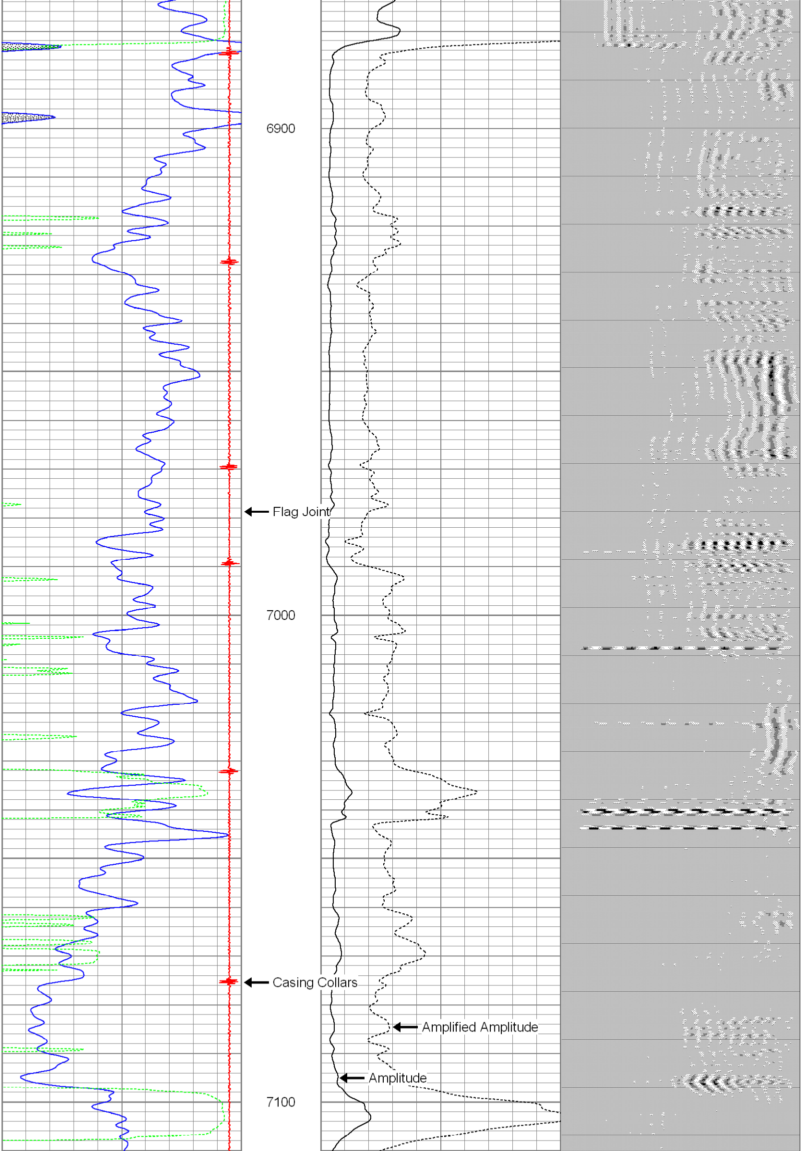


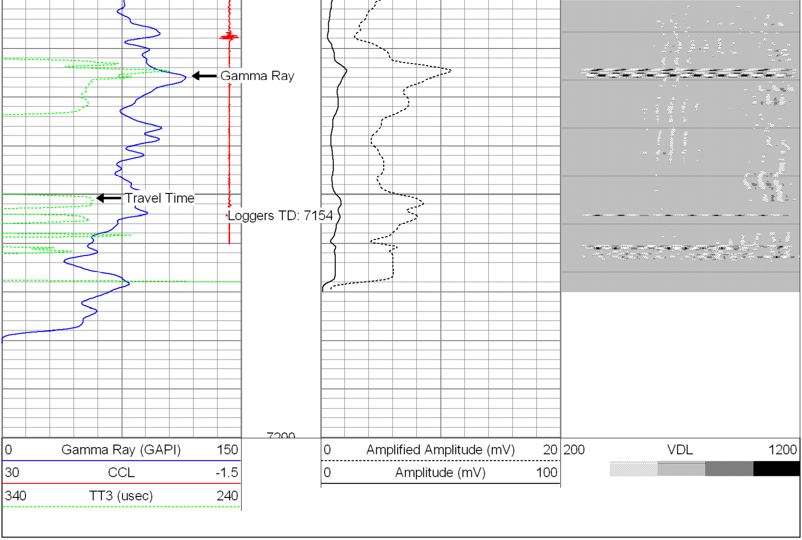












Calibration Report

Database File: cblstrohauer f32-24.db
Dataset Pathname: pass3
Dataset Creation: Thu Dec 23 09:36:34 2010 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	234GR-328	
Tool Model:	TekcoGR	
Performed:	Thu Aug 02 12:04:45 2007	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	234B35C-8013	
Tool Model:	TEKCO	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	1111.725	ft

Master Calibration, performed Thu Dec 23 09:00:18 2010:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	2.489	0.500	81.196	32.283	0.832
CAL	-0.012	0.735				
5'	-0.009	0.738	0.500	81.196	108.033	1.501
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed Thu Dec 23 09:01:02 2010:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	-0.012	0.724	-0.012	0.735	1.016	0.000

Air Zero Calibration, performed Thu Dec 23 08:59:27 2010:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1			
S2			
S3			
S4			
S5			
S6			
S7			
S8			