Company ANADARKO E&P ONSHORE LLC

Well SWITCHMAN 1647-17-11-H
Field WILDCAT
County CHEYENNE State CO

PIONEER
Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company ANADARKO E&P ONSHORE LLC
Well SWITCHMAN 1647-17-11-H
Field WILDCAT
County CHEYENNE State CO

Location: API # : 05017077770000
350' FSL & 650' FWL
SEC 17 TWP 16S RGE 47W

Other Services
NONE

Permanent Datum	GL	Elevation 4185'	Elevation	
Log Measured From	KB		K.B.	4204
Drilling Measured From	KB		D.F.	4205
			G.L.	4185

Date of Service	2-18-14
Run Number	ONE
Depth Driller or PBTD	9214'
Depth Logger	5174'
Bottom Log Interval	5174'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Fluid Level	SURFACE
Fluid Density	NA
Max. Recorded Temperature	189
Max. Wellhead Pressure	2500 PSI
Wellhead Connection	5K 7 1/16" FLANGE
Estimated Cement Top	408'
Unit Number	75
Wireline Size	9/32"
Location	FORT MORGAN
Recorded By	JOHN HOLLIS
Witnessed By	MR. DON BIGLEY

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing				
Production Casing	7"	26#	SURFACE	5636'
Liner Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

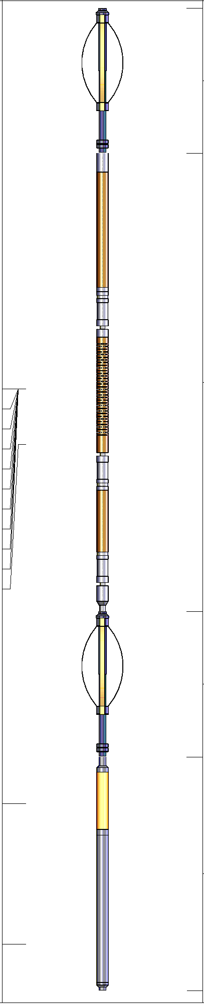
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O.# 2-204567

COUNTY ROAD C & COUNTY ROAD 25 NORTH 1.1, EAST TO LOCATION

THANK YOU FOR USING PIONEER Energy SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: N. BIVENS Operator: J. HOLLIS Operator: D. BAESSLER Operator: W. BRIGANTE		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	
WVF3FT	11.71		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.71					
WVFS1	11.71					
WVFS2	11.71					
WVFS3	11.71					
WVFS4	11.71					
WVFS5	11.71					
WVFS6	11.71					
WVFS7	11.71					
WVFS8	11.71					
WVF5FT	10.63					
			PTS275	2.83	2.75	
CCL	3.63					
			GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00
GR	0.90					

Dataset: 0501707770000_switchman_1647_17_11_h_rbl.db: field/well/run1/pass5
Total Length: 19.13 ft
Total Weight: 190.00 lb
O.D. 2.75 in

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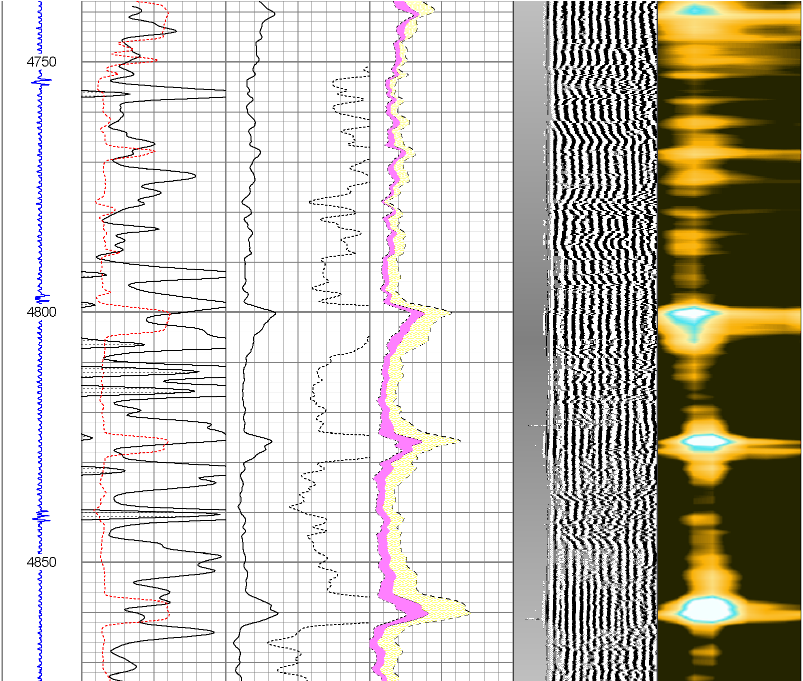
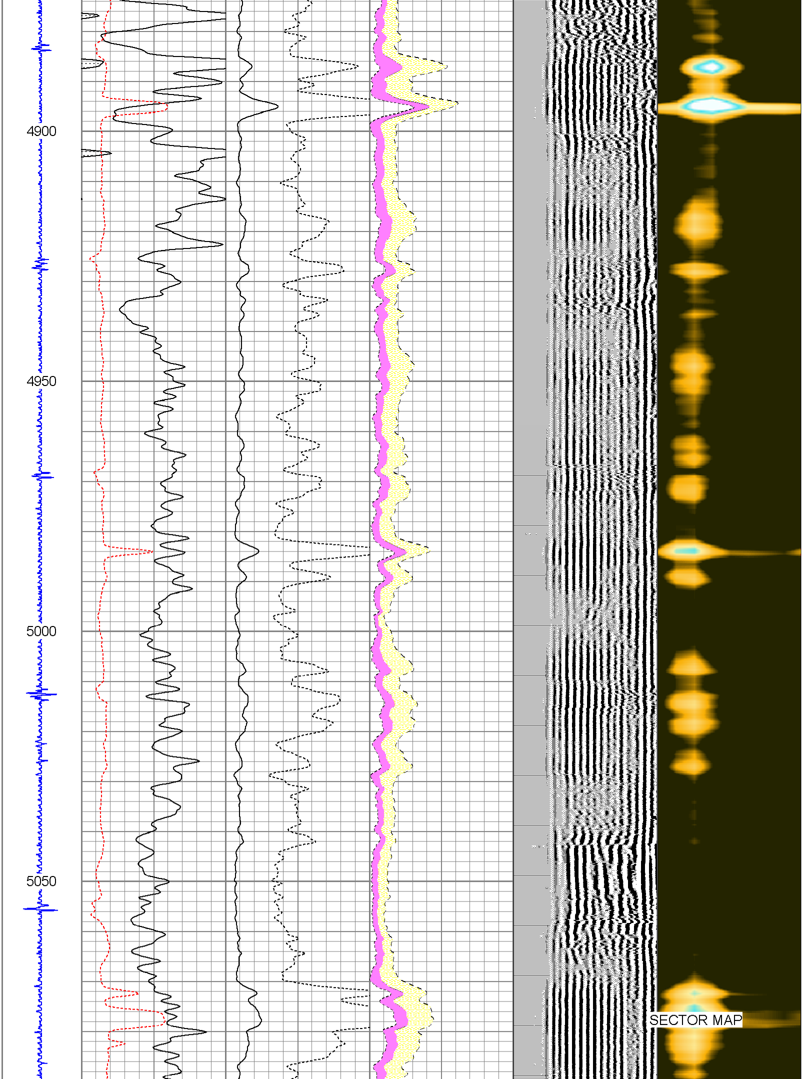
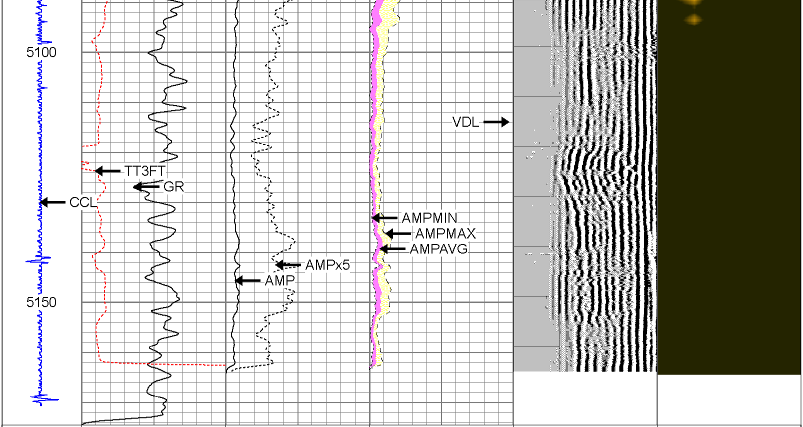
REPEAT PASS WITH 0 PSI

Database File: 0501707770000_switchman_1647_17_11_h_rbl.db
Dataset Pathname: pass3
Presentation Format: scbl02
Dataset Creation: Tue Feb 18 08:32:03 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

CCL	0 GR (GAPI) 200	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
-7.75 7.75	TT3FT	0 AMPx5 (mV) 20	0 AMPMAX 150		25 85
	360 (usec) 260		0 AMPMIN 150		







CCL	0 GR (GAPI) 200	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
-7.75 7.75	TT3FT	0 AMPx5 (mV) 20	0 AMPMAX 150		25 85
	360 (usec) 260		0 AMPMIN 150		

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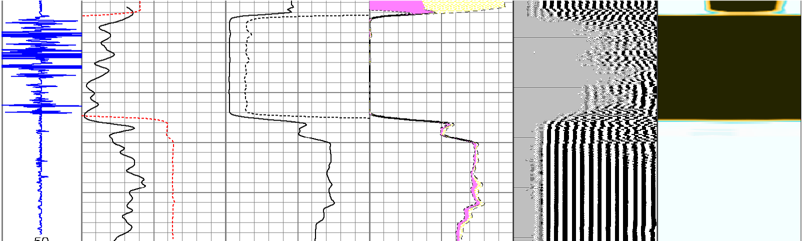
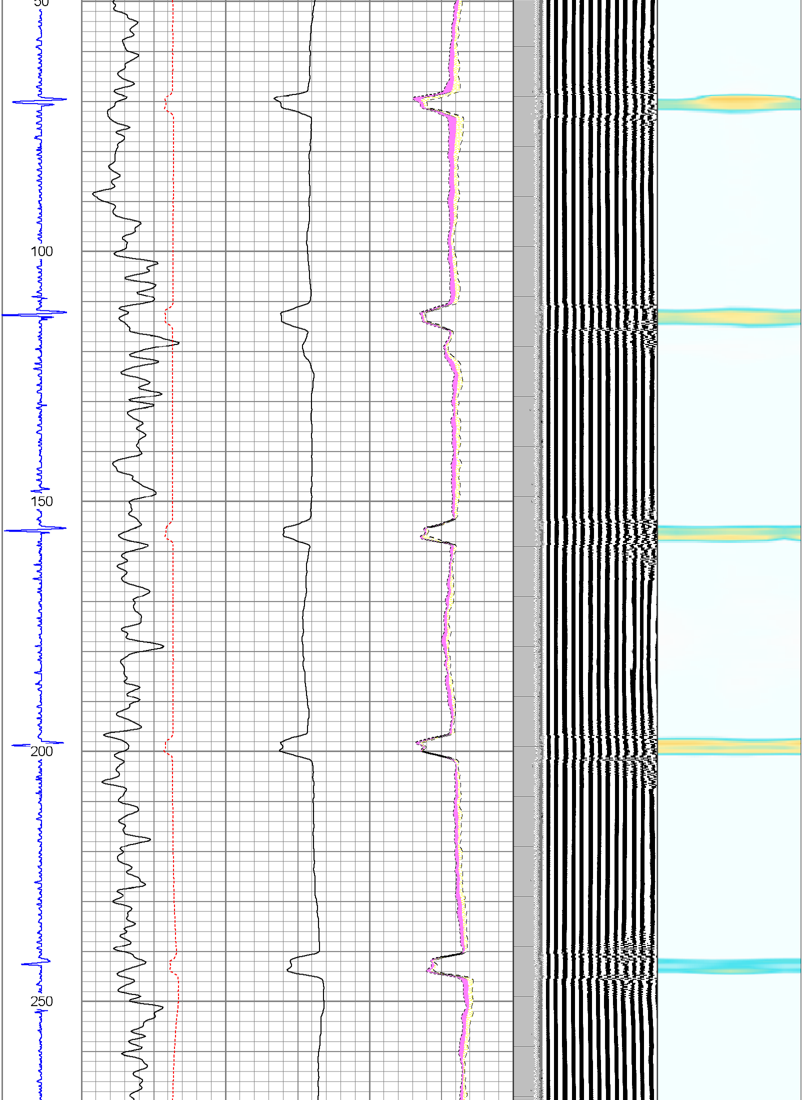
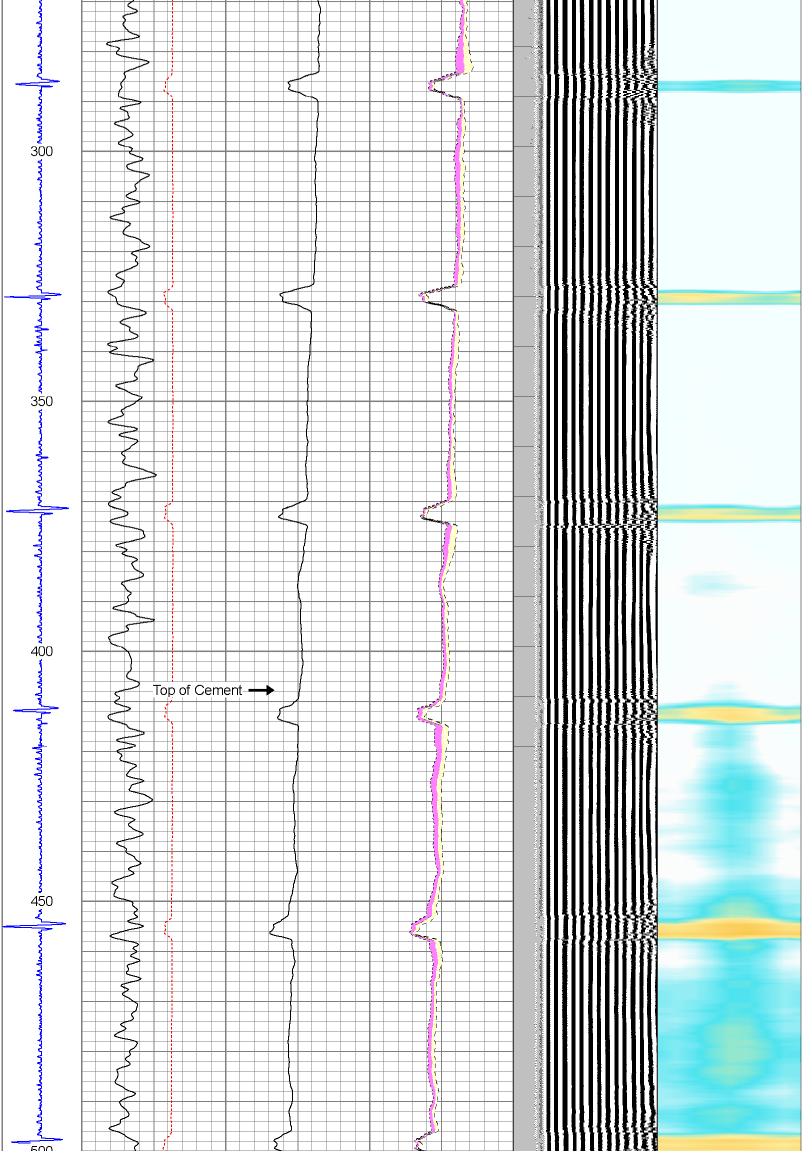
MAIN PASS WITH 2500 PSI

Database File:	0501707770000_switchman_1647_17_11_h_rbl.db
Dataset Pathname:	pass5
Presentation Format:	scbl02
Dataset Creation:	Tue Feb 18 10:39:12 2014 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

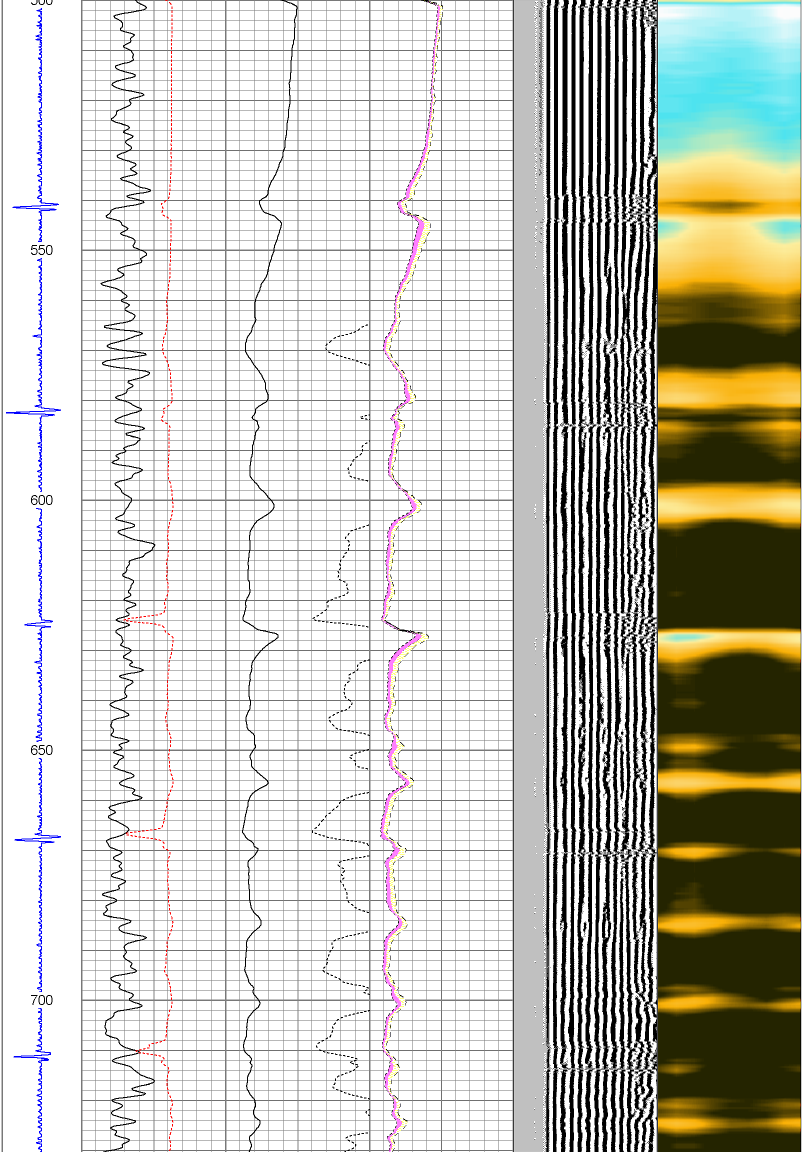
CCL	0 GR (GAPI) 200	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
-7.75 7.75	TT3FT	0 AMPx5 (mV) 20	0 AMPMAX 150		25 85
	360 (usec) 260		0 AMPMIN 150		

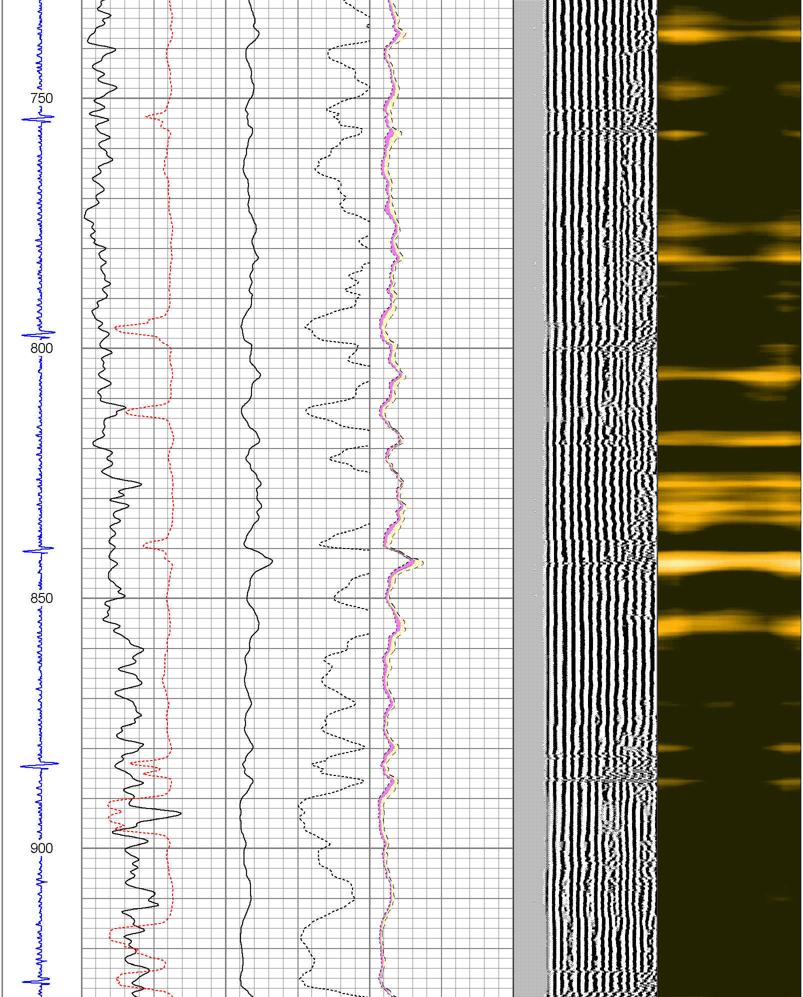


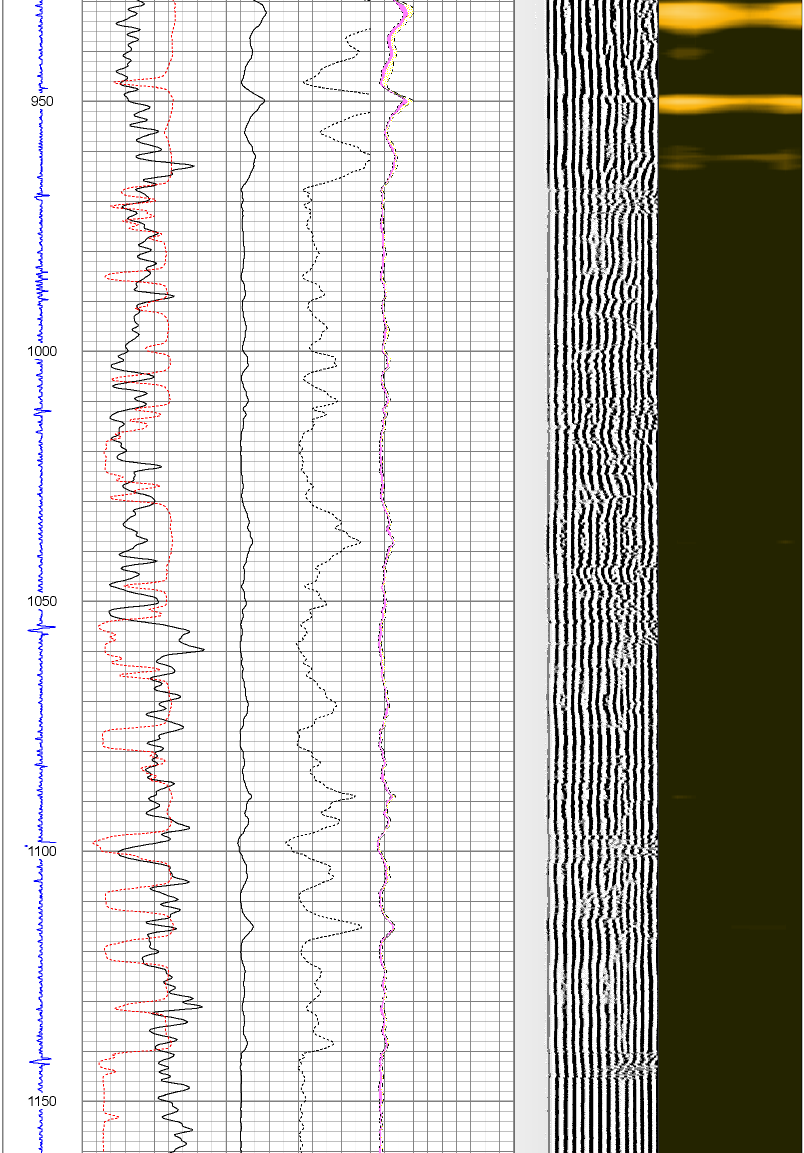


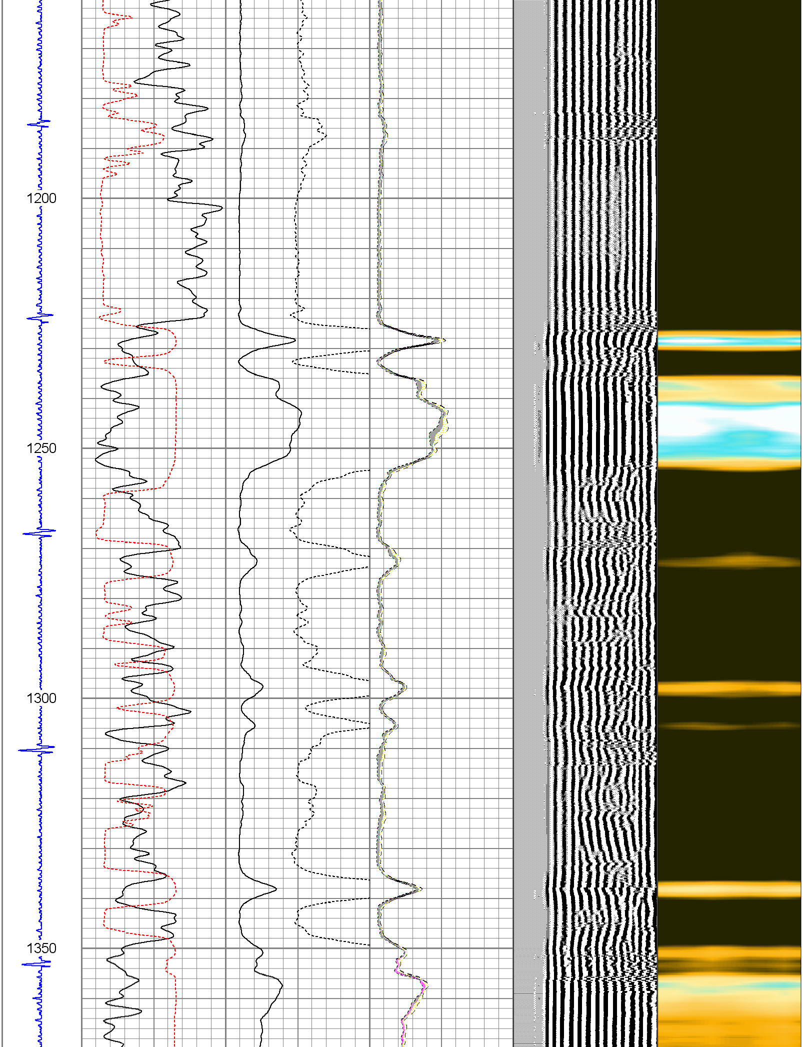


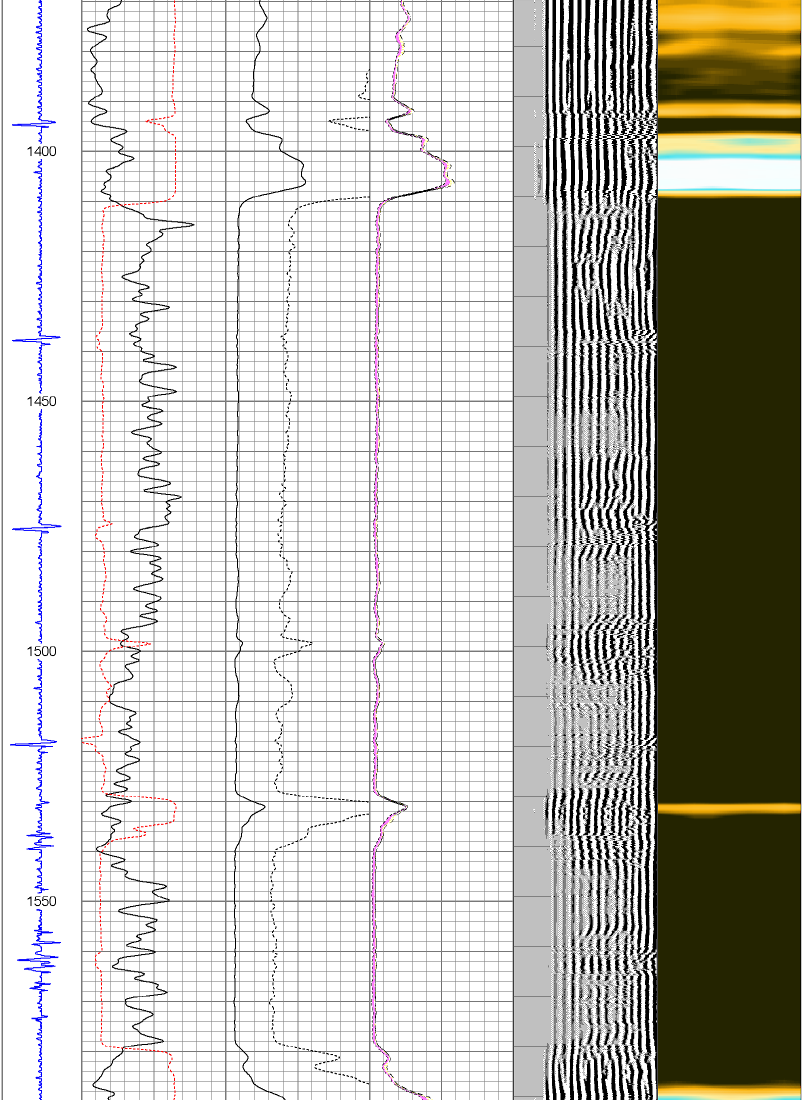
Top of Cement

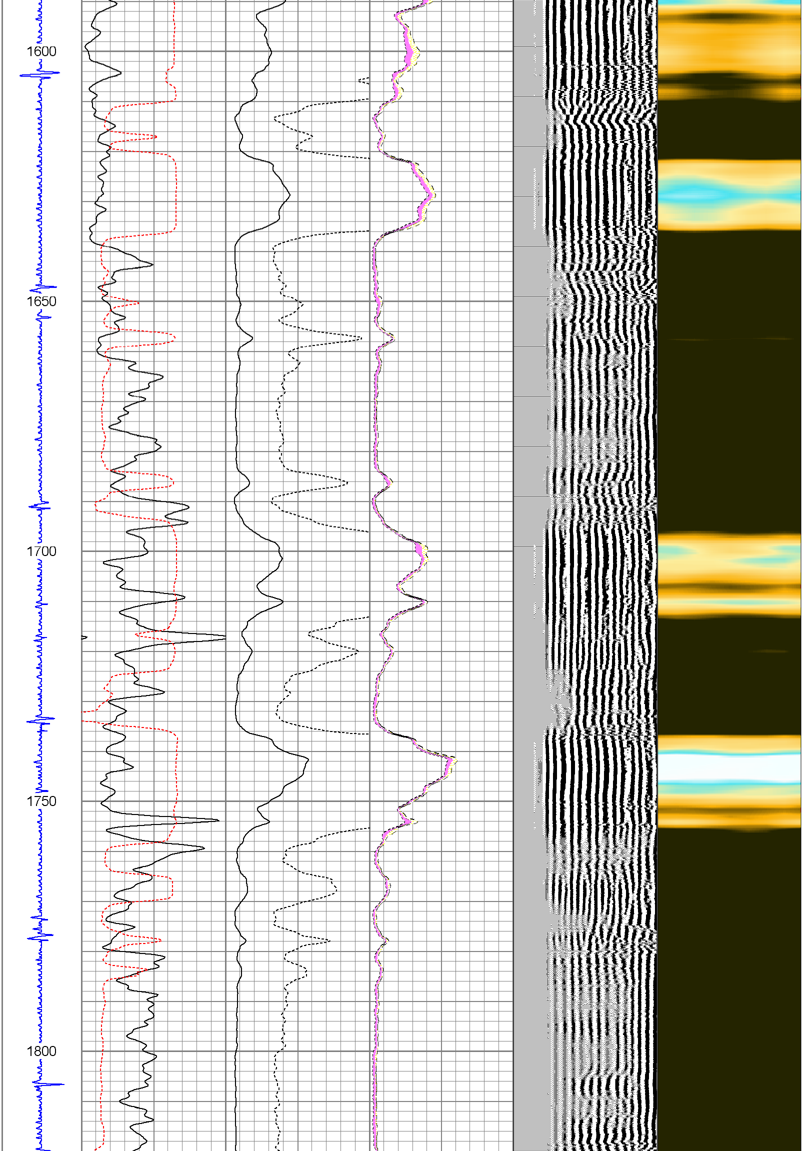


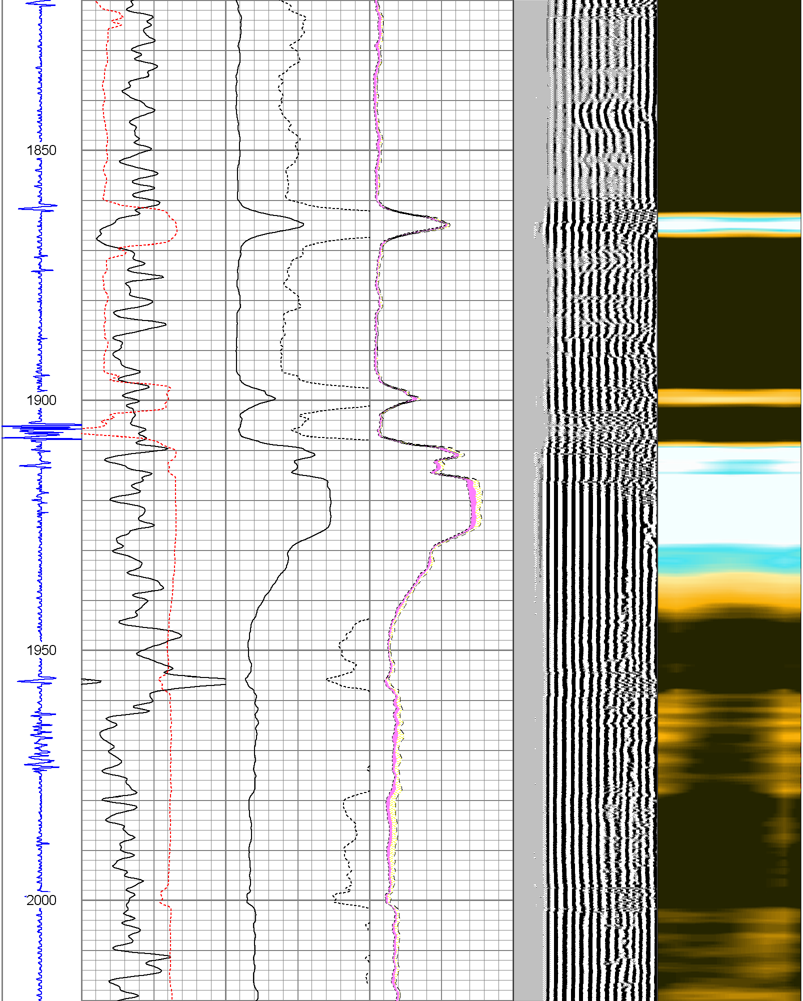


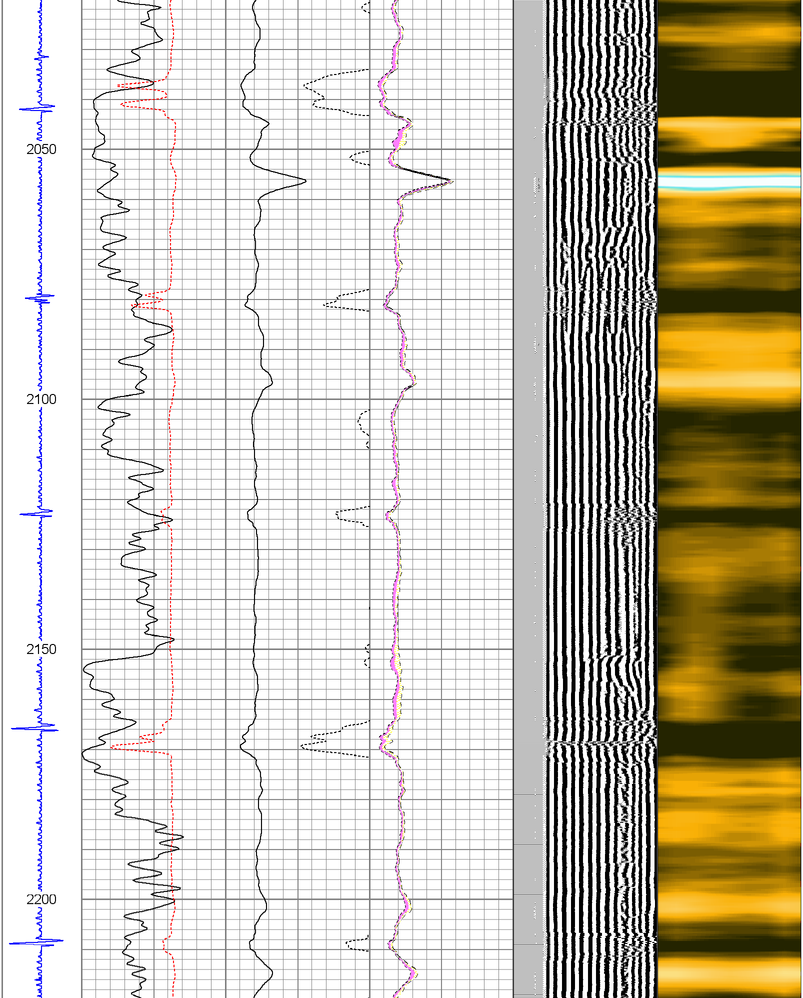


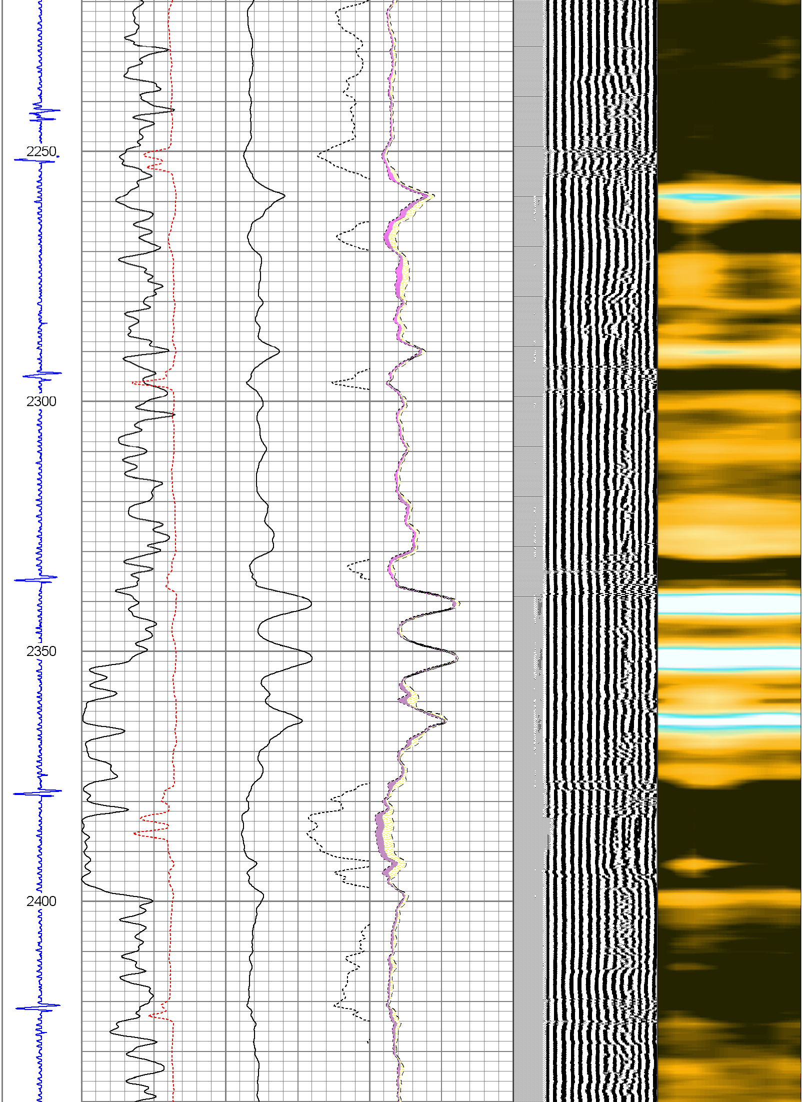


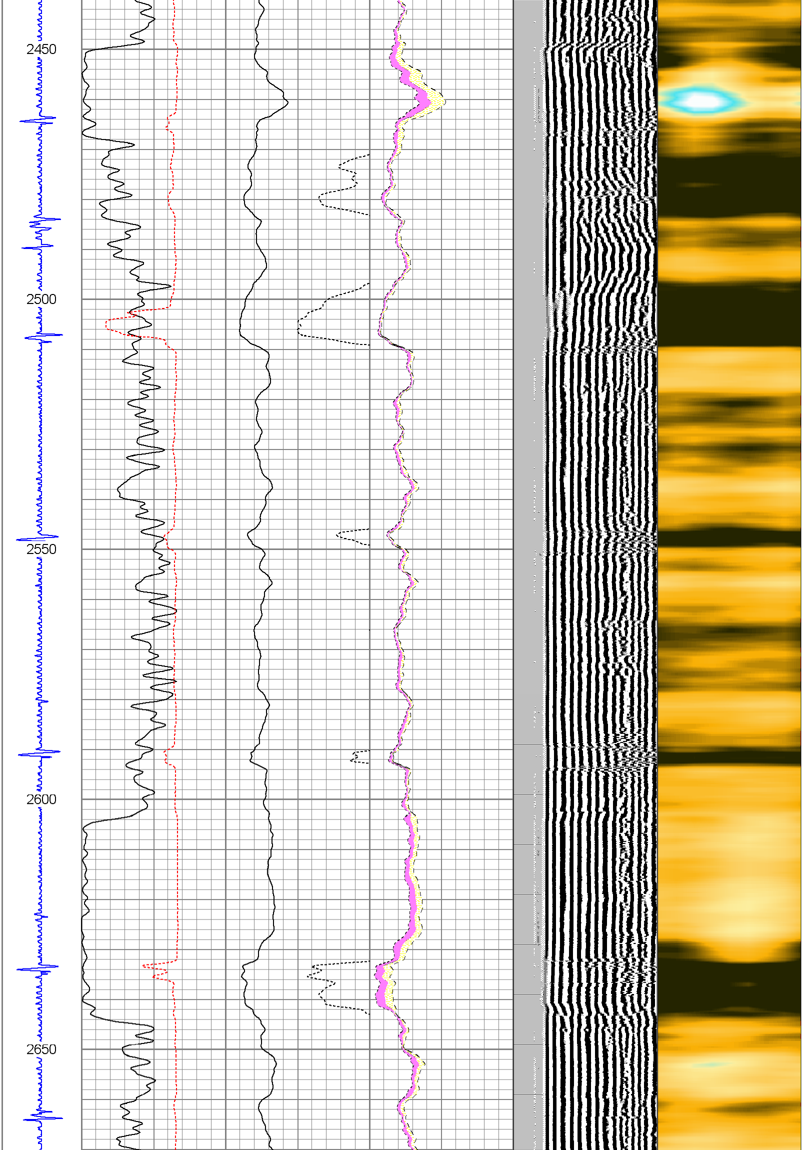


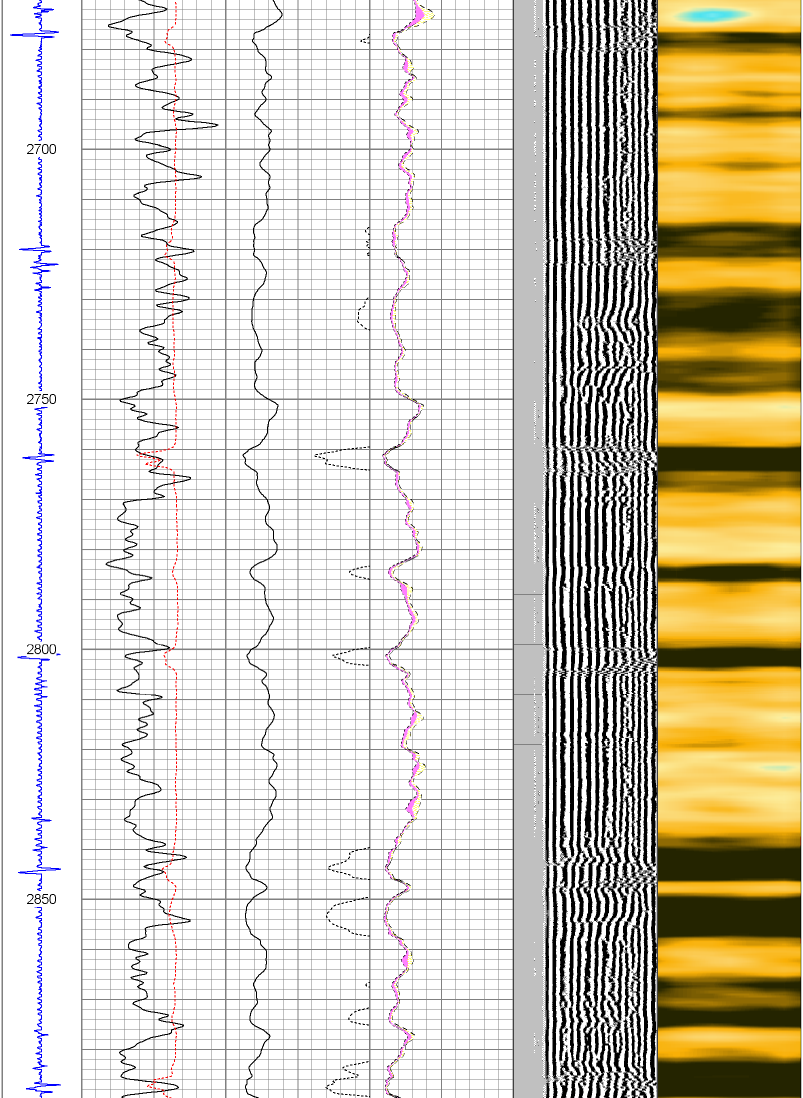


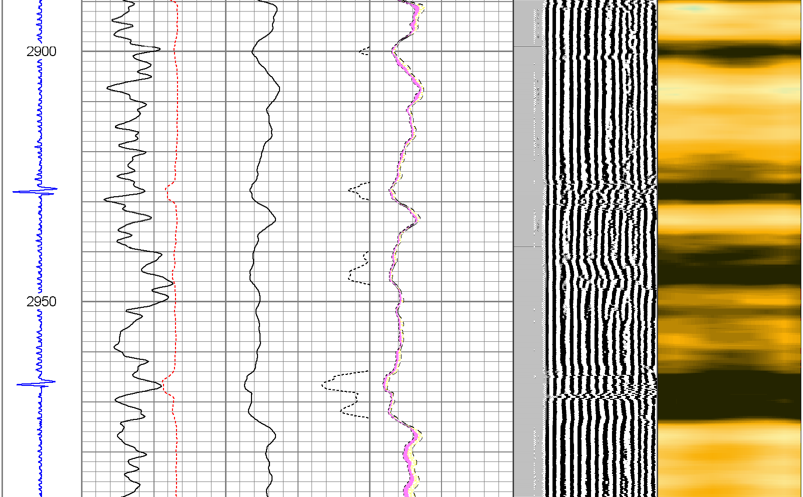


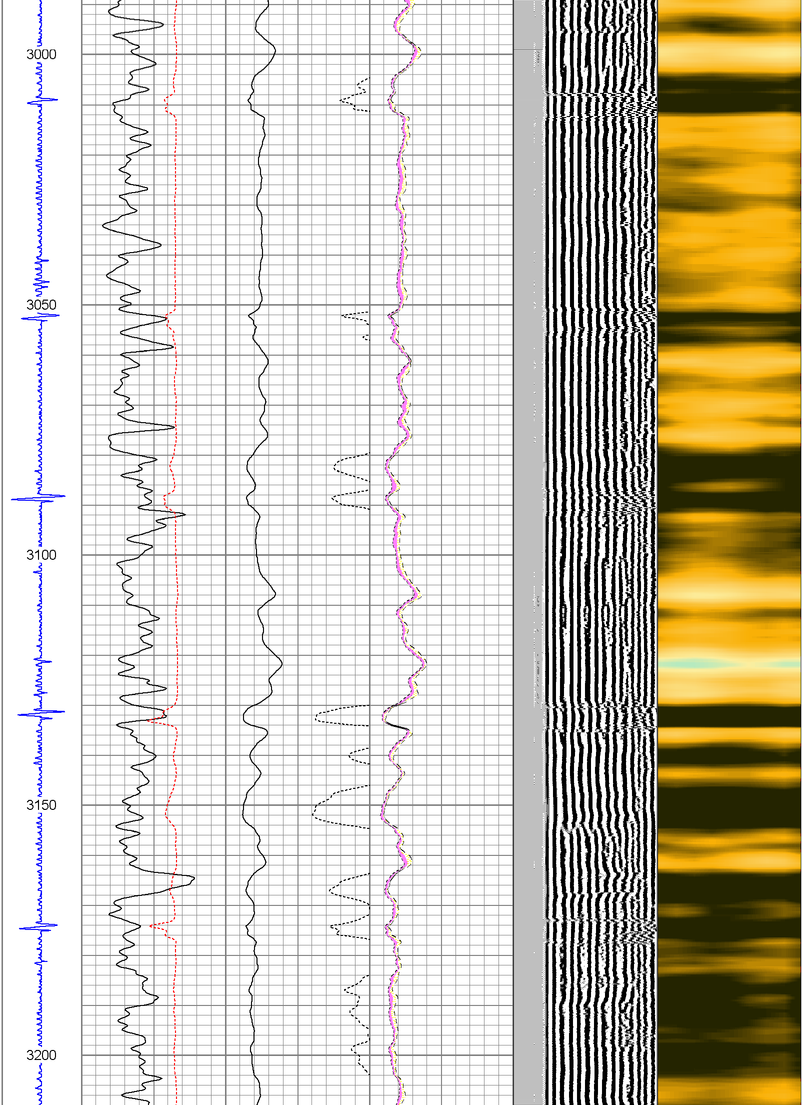


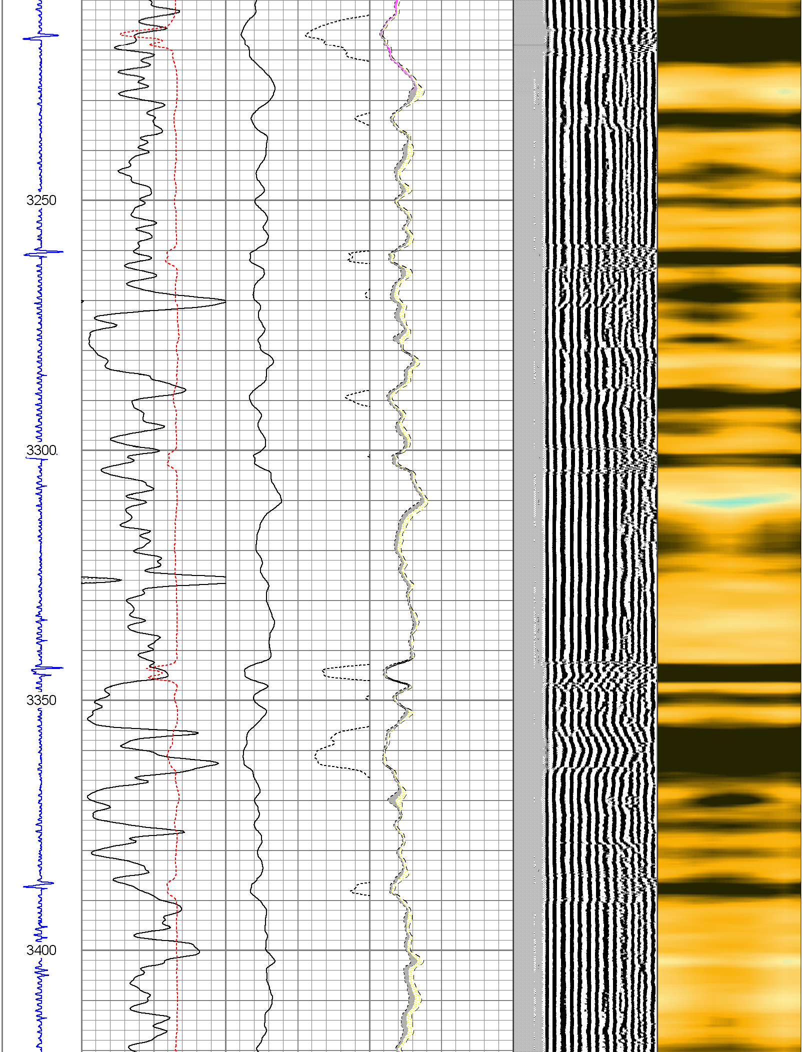


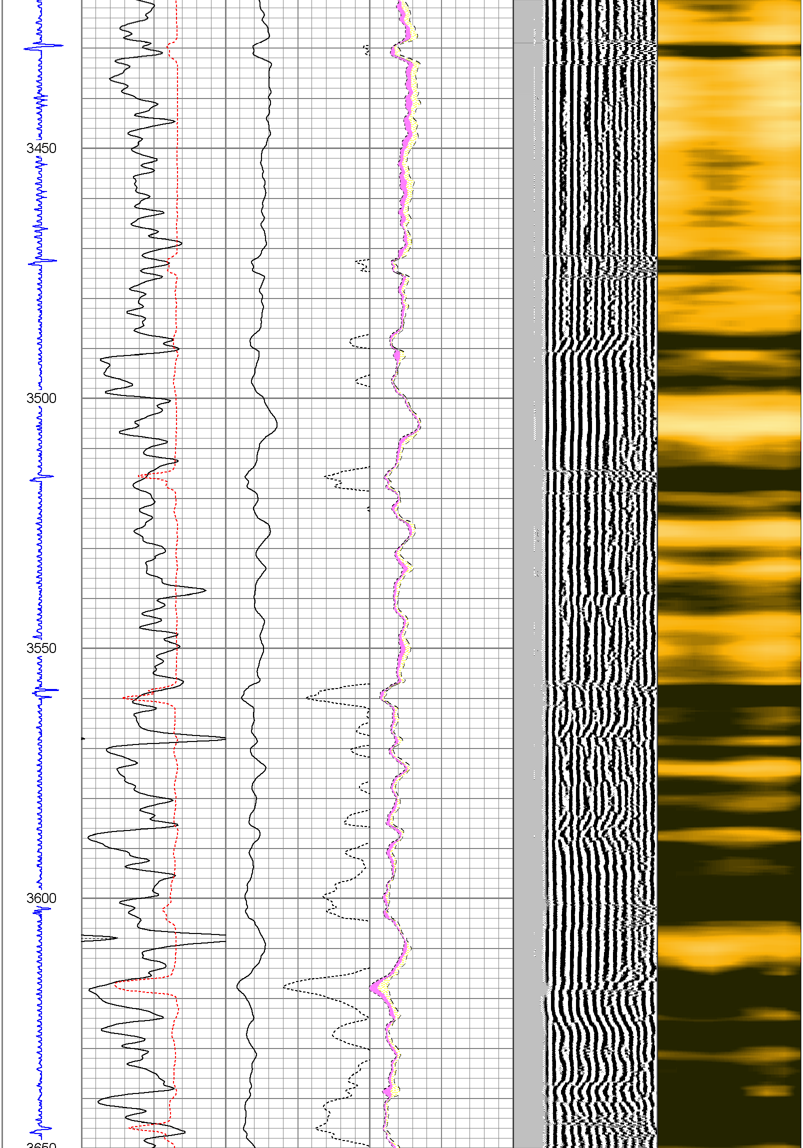


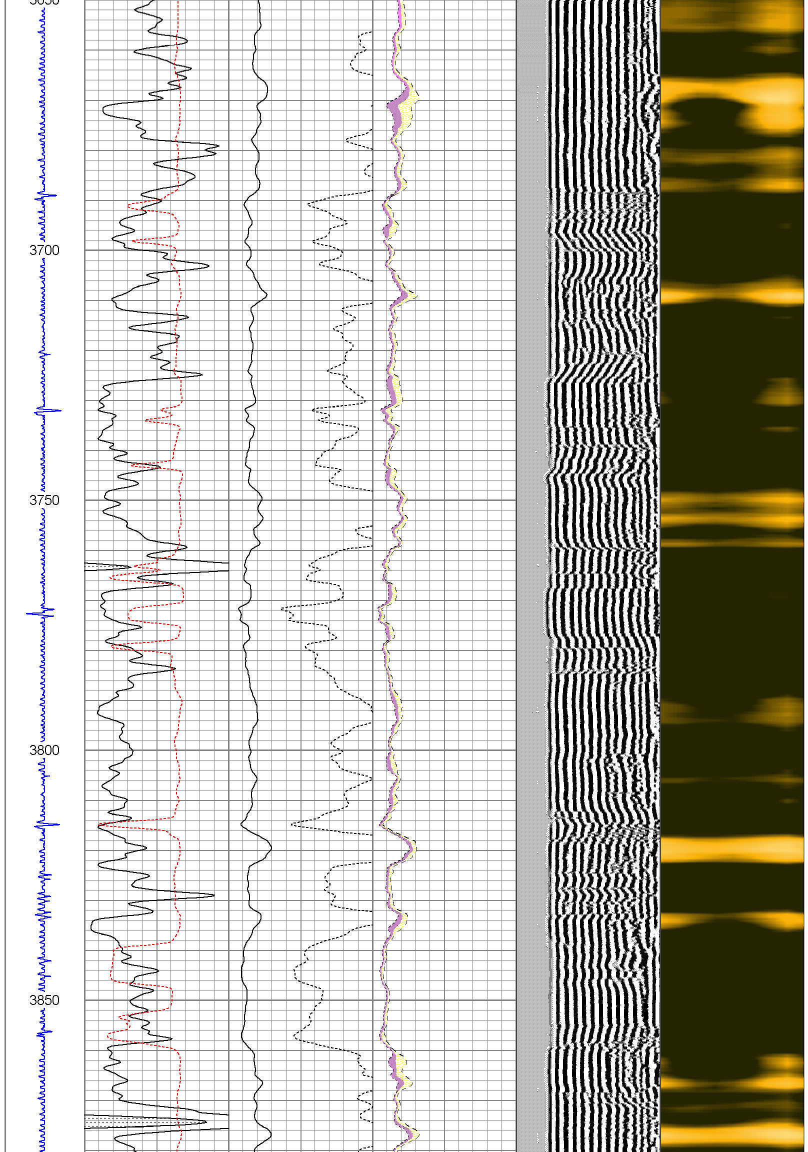


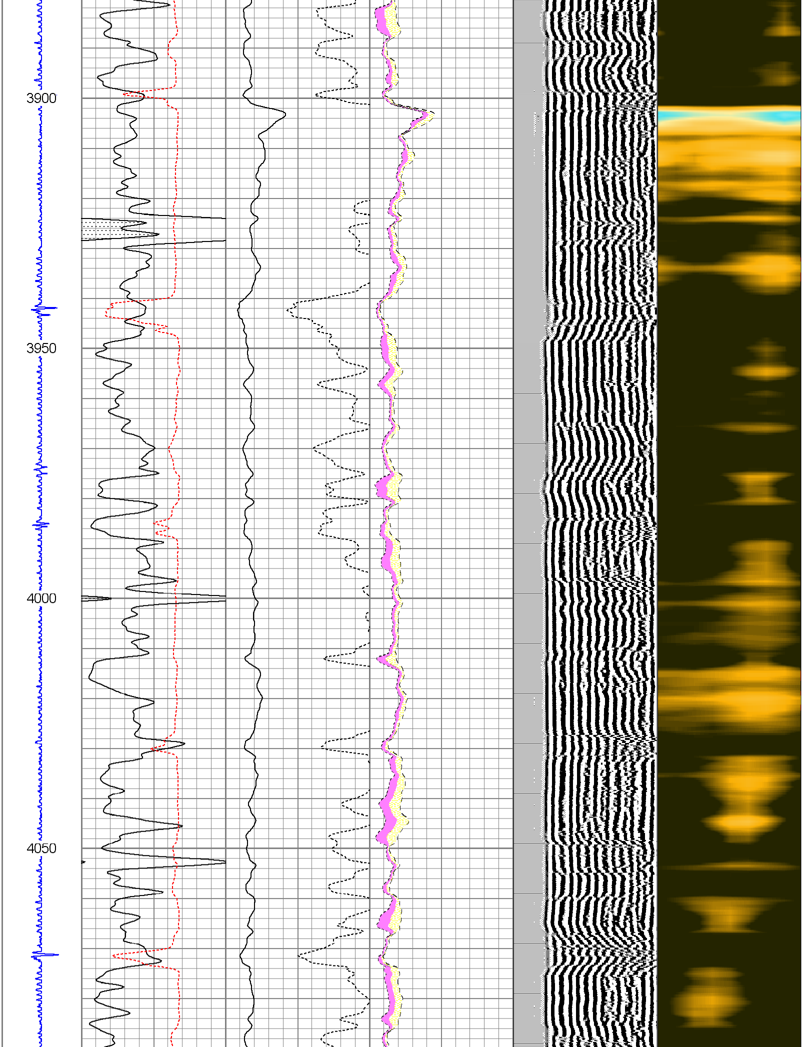


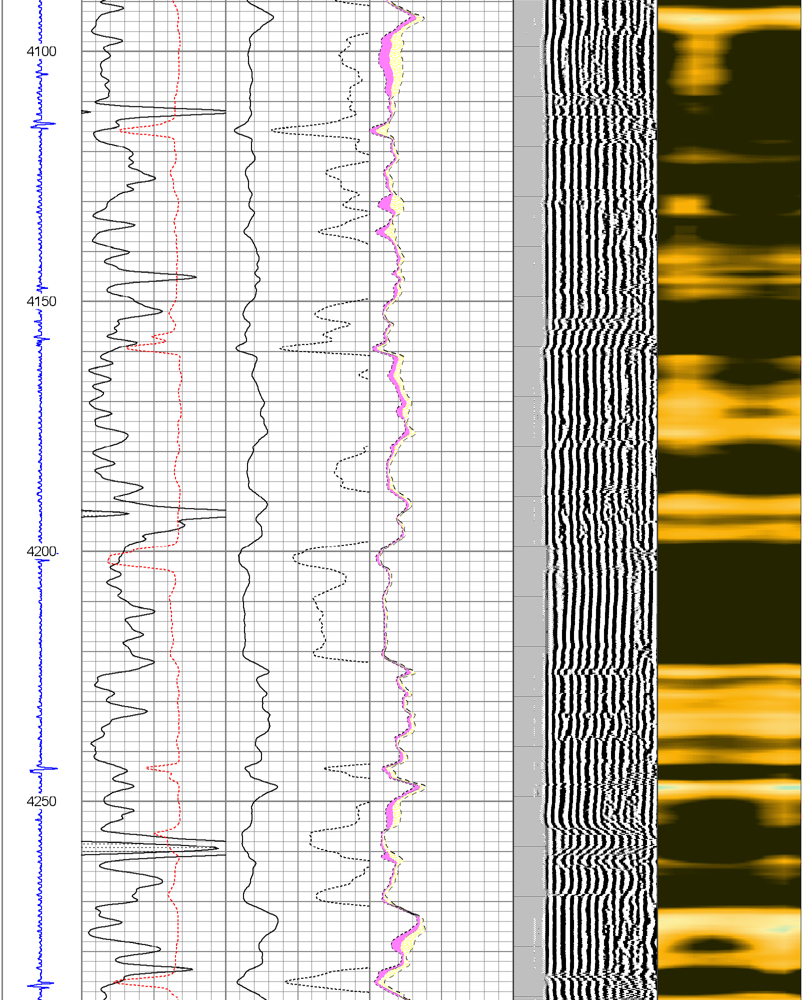


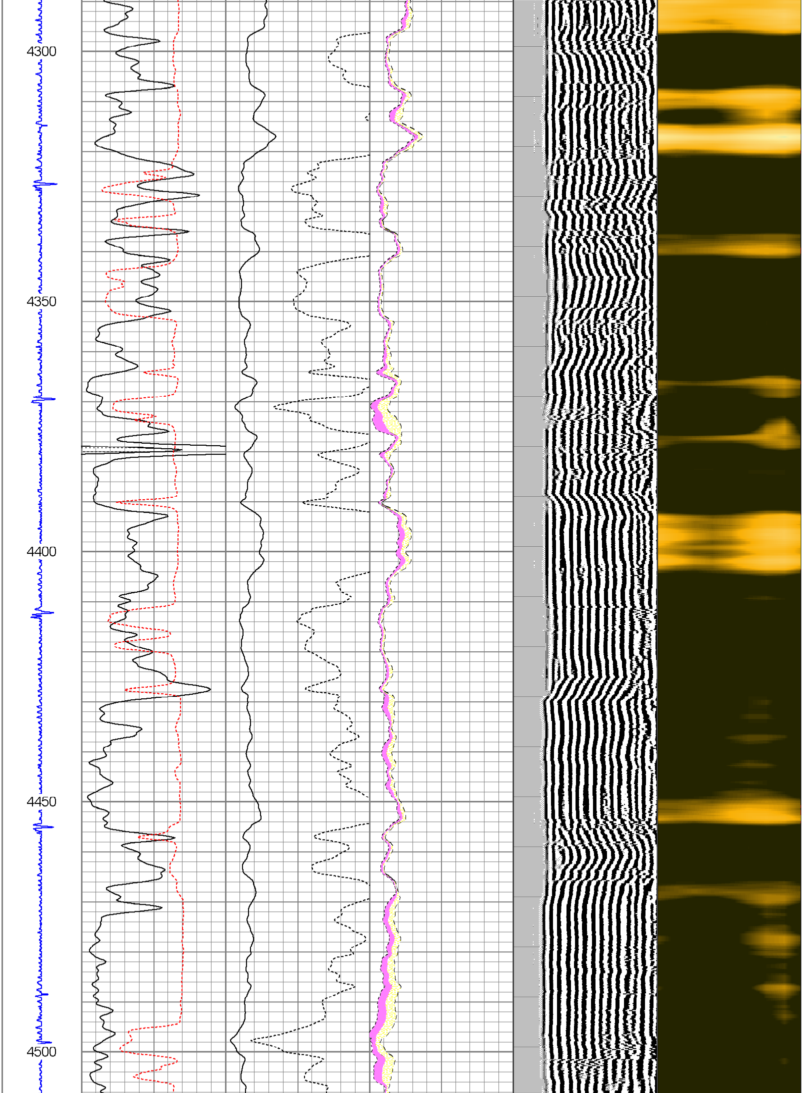


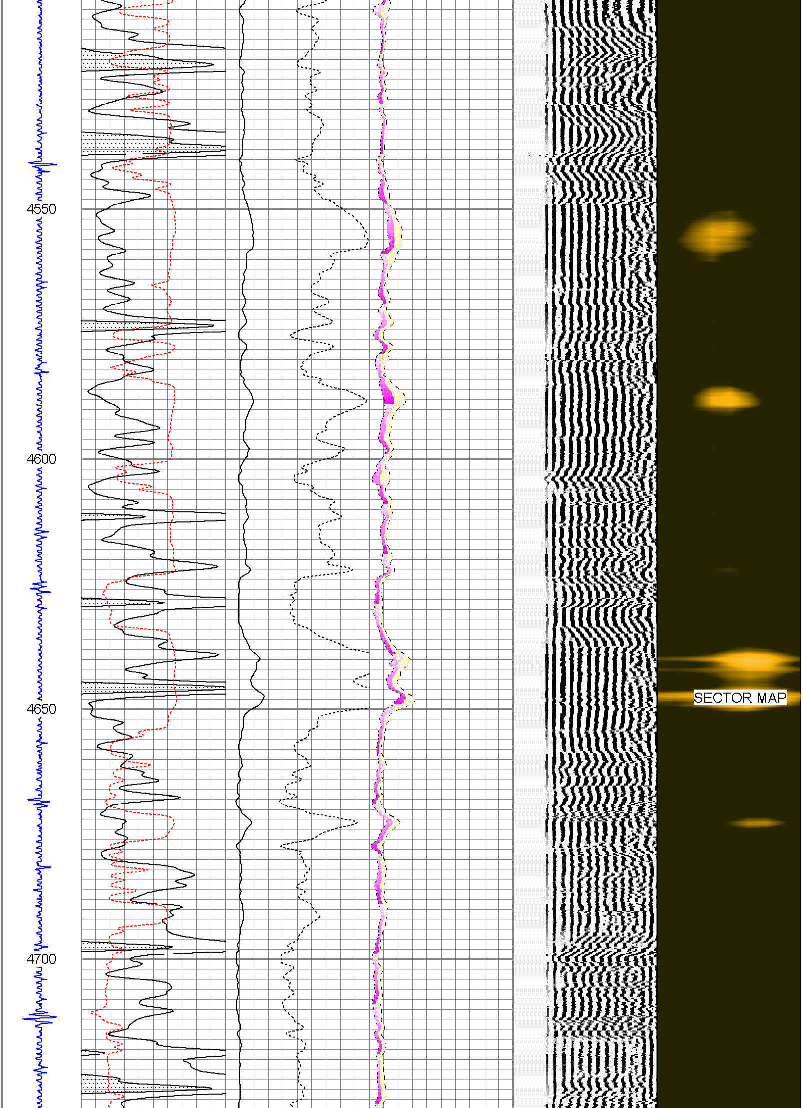


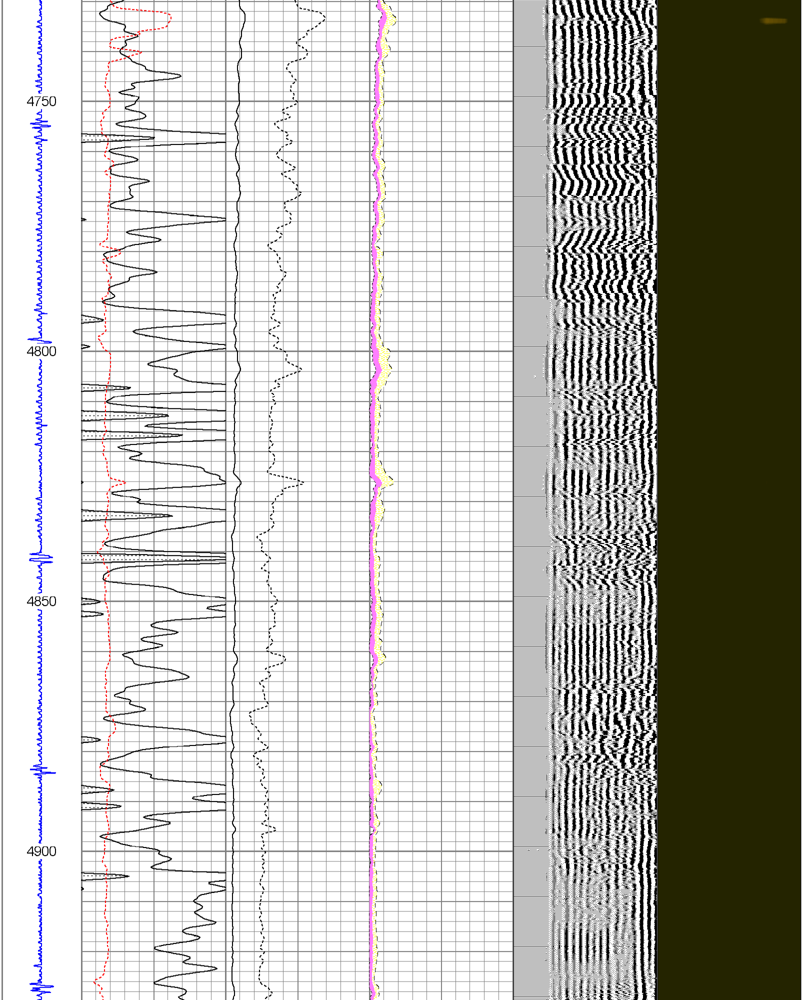


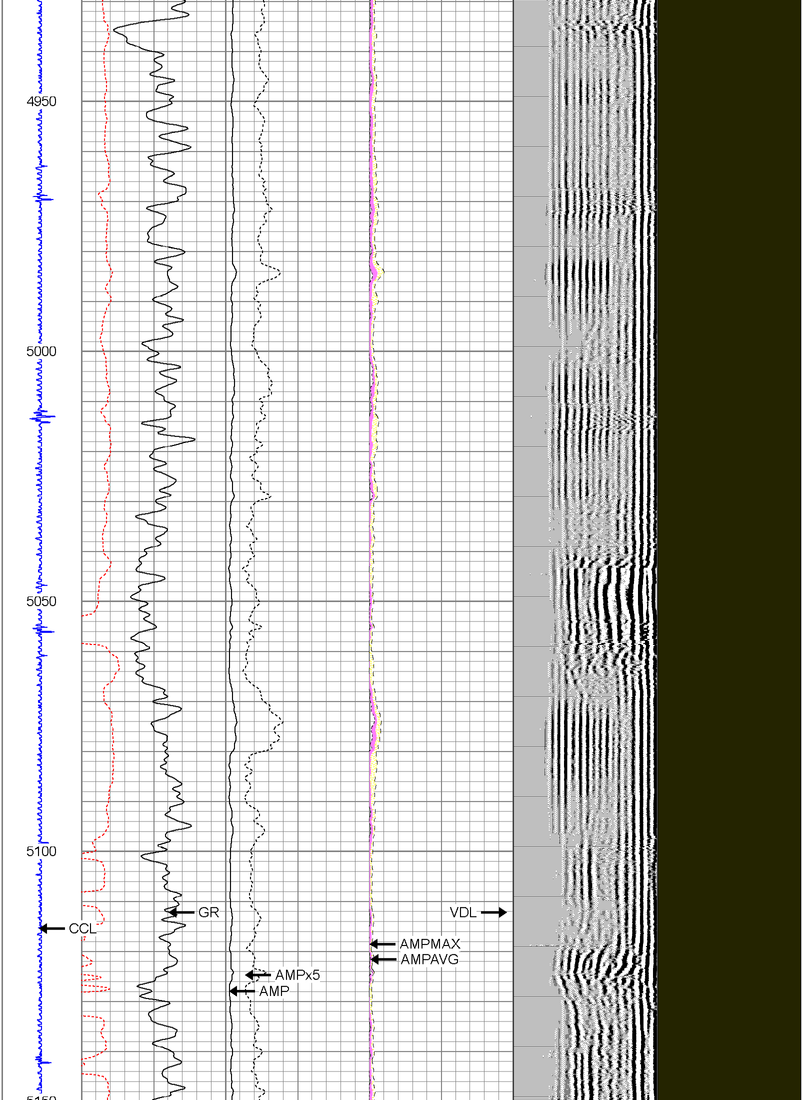


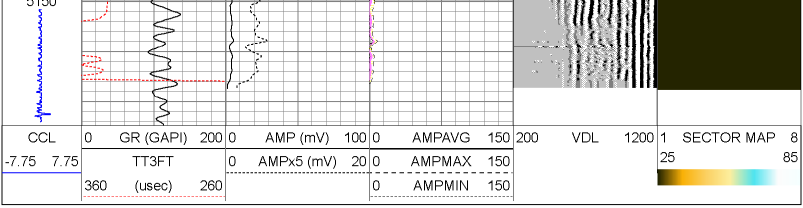












Calibration Report

Database File:	0501707770000_switchman_1647_17_11_h_rbl.db
Dataset Pathname:	pass5
Dataset Creation:	Tue Feb 18 10:39:12 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	111211	
Tool Model:	Probe	
Performed:	Sat Nov 16 08:23:39 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	Base	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1921.100	ft

Master Calibration, performed Tue Feb 18 10:28:46 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	1.635	2.000	62.165	37.042	1.603
CAL	0.007	2.436				
5'	0.004	0.931	2.000	62.165	64.930	1.710
SUM						
S1	0.042	1.478	0.000	95.000	66.162	-2.792
S2	0.013	1.485	0.000	95.000	64.514	-0.821
S3	0.012	1.567	0.000	95.000	61.083	-0.718
S4	0.012	1.688	0.000	95.000	56.699	-0.706
S5	0.010	1.757	0.000	95.000	54.379	-0.549
S6	0.010	1.758	0.000	95.000	54.353	-0.557
S7	0.010	1.650	0.000	95.000	57.924	-0.551
S8	0.010	1.550	0.000	95.000	61.665	-0.610

Internal Reference Calibration, performed Wed Aug 21 11:08:58 2013:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	2.436	1.000	0.000

Air Zero Calibration, performed Mon Dec 09 06:54:41 2013:

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