PEAK WIRELINE SERVICES, INC.

RADIAL CEMENT BOND LOG

Company	MUSTANG CREEK OPERATING LLC
Well	GRAHAM 1-13
Field	WILDCAT
County	EL PASO
State	COLORADO

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Well	GRAHAM 1-13		
Field	WILDCAT		
County	EL PASO	State	COLORADO

Location

NW SW
SEC 1 TWP 13S RGE 60W
LAT 38.946070 LONG 104.068480

Other Services

Permanent Datum	GROUND LEVEL	Elevation	6102
Log Measured From	KELLY BUSHING 22' AGL		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 6124
D.F. 6123
G.L. 6102

Date	3-7-2014		
Run Number	ONE		
Depth Driller	10985		
Depth Logger	10897		
Bottom Logged Interval	10892		
Top Log Interval	4900		
Casing Size	5 1/2"		
Type Fluid	WATER		
Density / Viscosity			
Max. Recorded Temp.			
Estimated Cement Top			
Time Well Ready			
Time Logger on Bottom			
Equipment Number	TR-8		
Location	CHEYENNE WELLS, CO.		
Recorded By	HENDERSON		
Witnessed By	BOB HOFFMEYER		

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				
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.

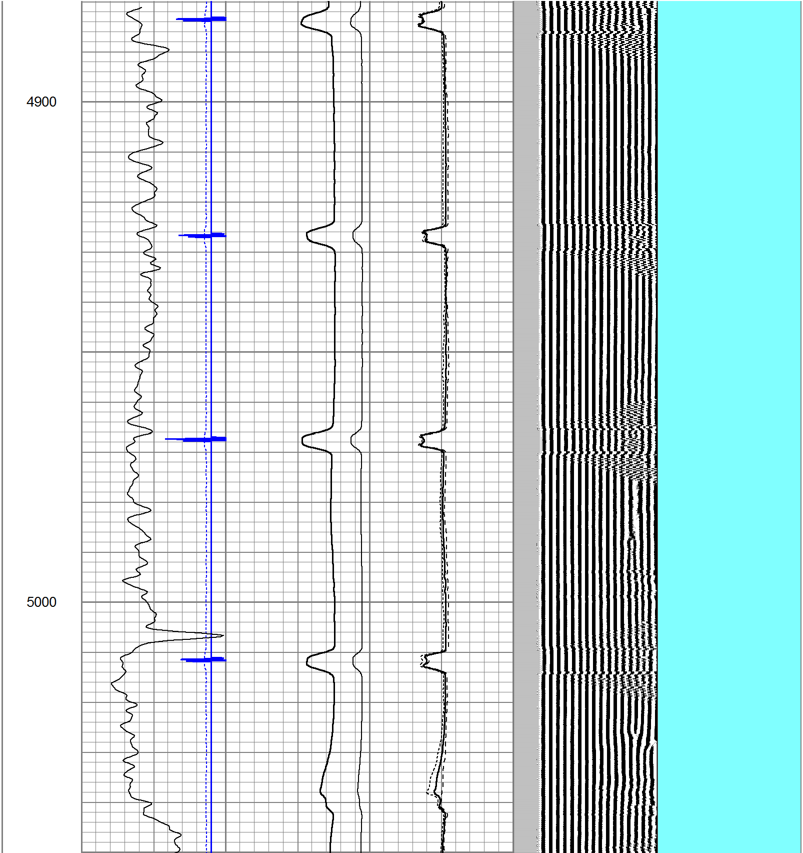
Comments

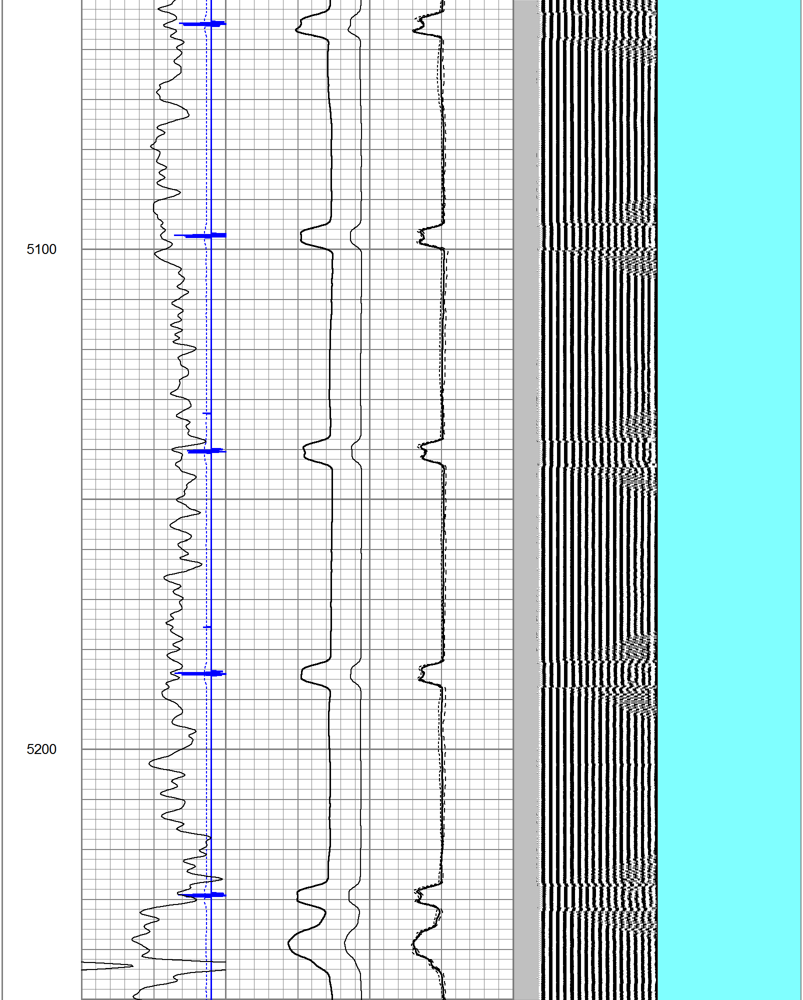
PEAK WIRELINE SERVICES, INC.

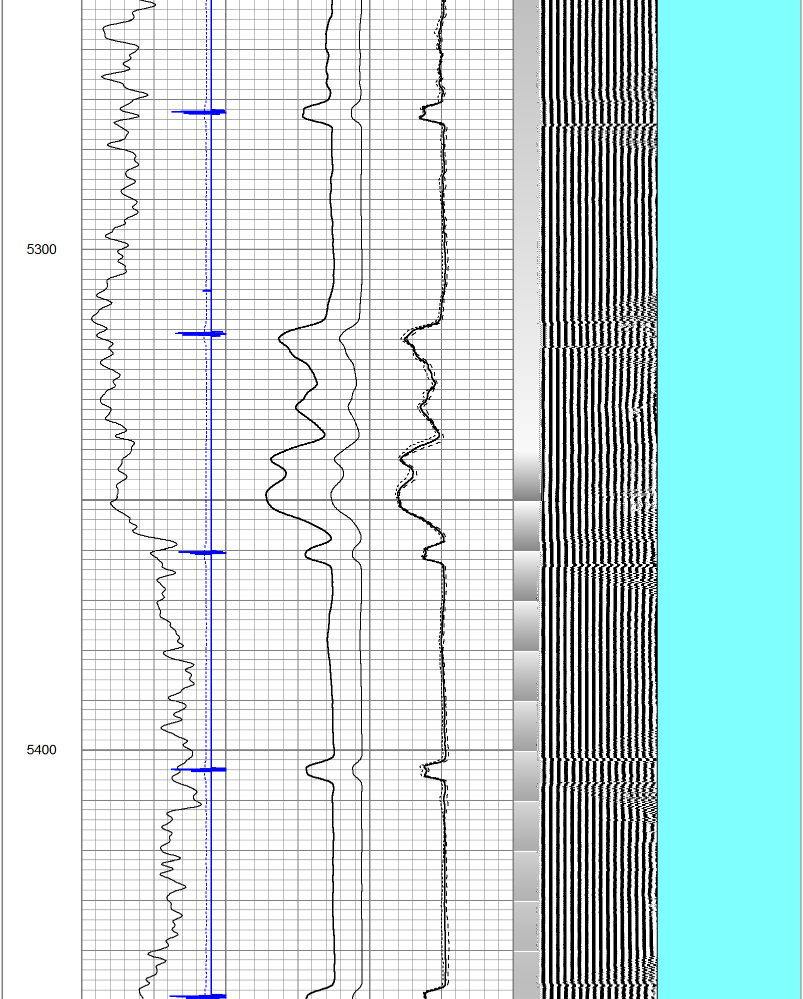
MAIN PASS

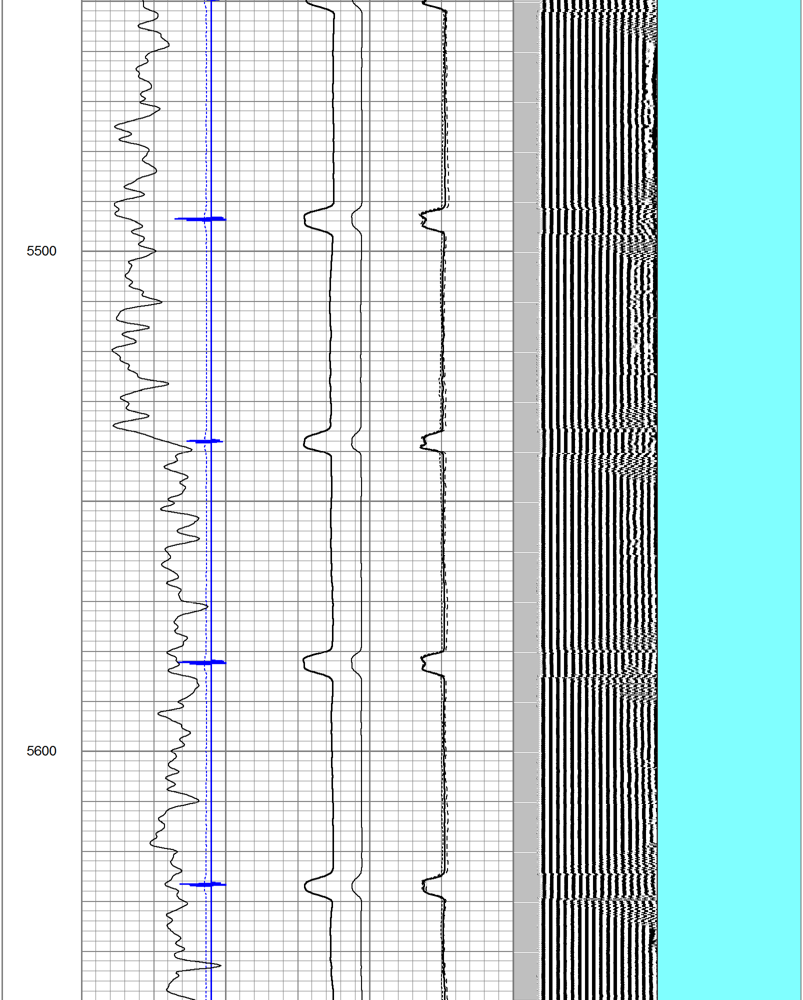
Database File: graham.db
Dataset Pathname: 1-13/run1/pass2
Presentation Format: scbl02
Dataset Creation: Fri Mar 07 17:42:33 2014 by Log Std Casedhole 10071
Charted by: Depth in Feet scaled 1:240

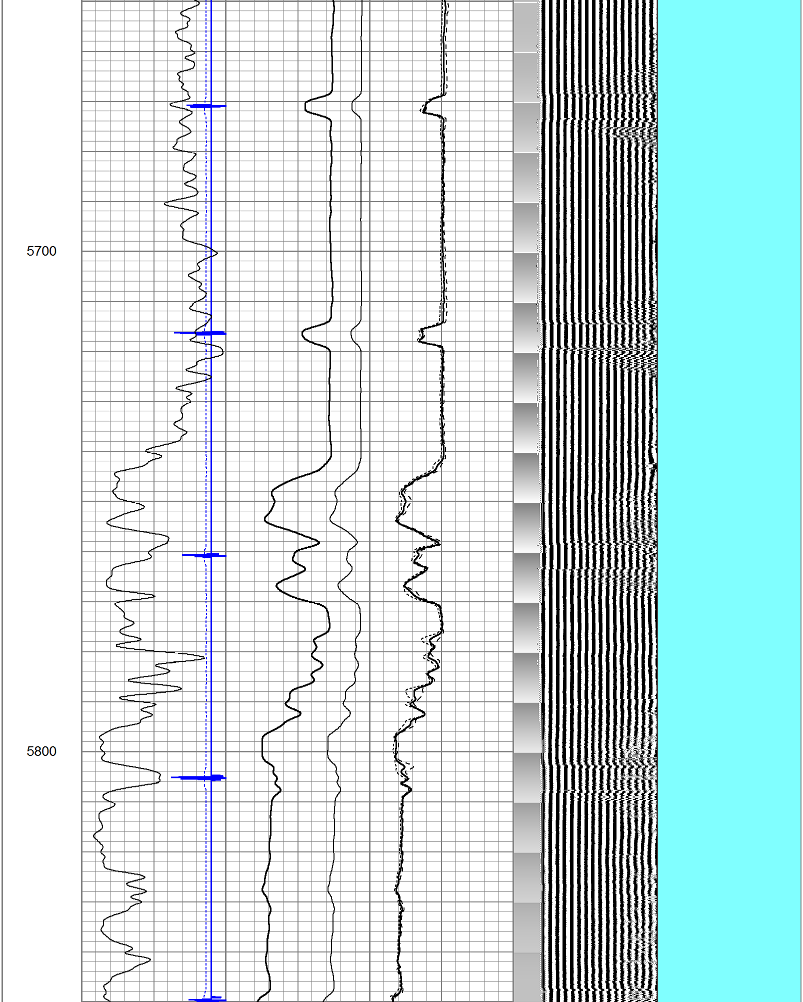
800 TT (usec) 200	0 AMP (mV) 100	-2 AMPAVG 200	200 VDL 1200	1 Cement Map 8
-9 CCL 1	0 AMPx5 (mV) 20	-2 AMPMAX 200		
0 GR (GAPI) 200	1 Bond Index 0	-2 AMPMIN 200		
200 (null) (GAPI) 400				

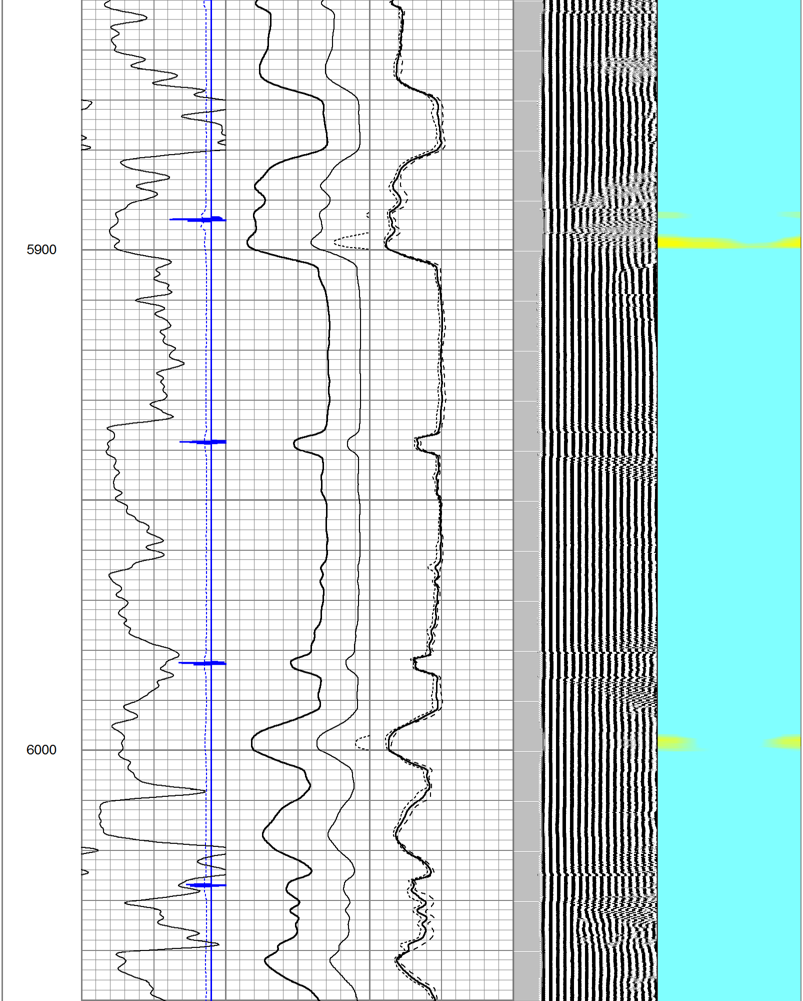


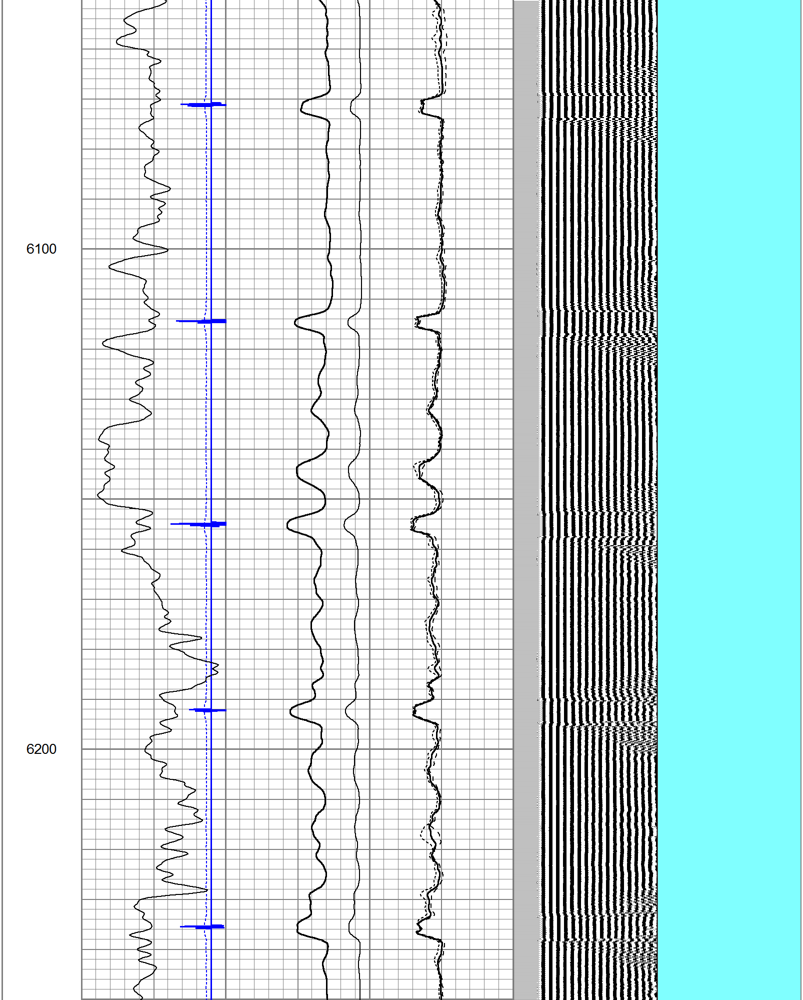


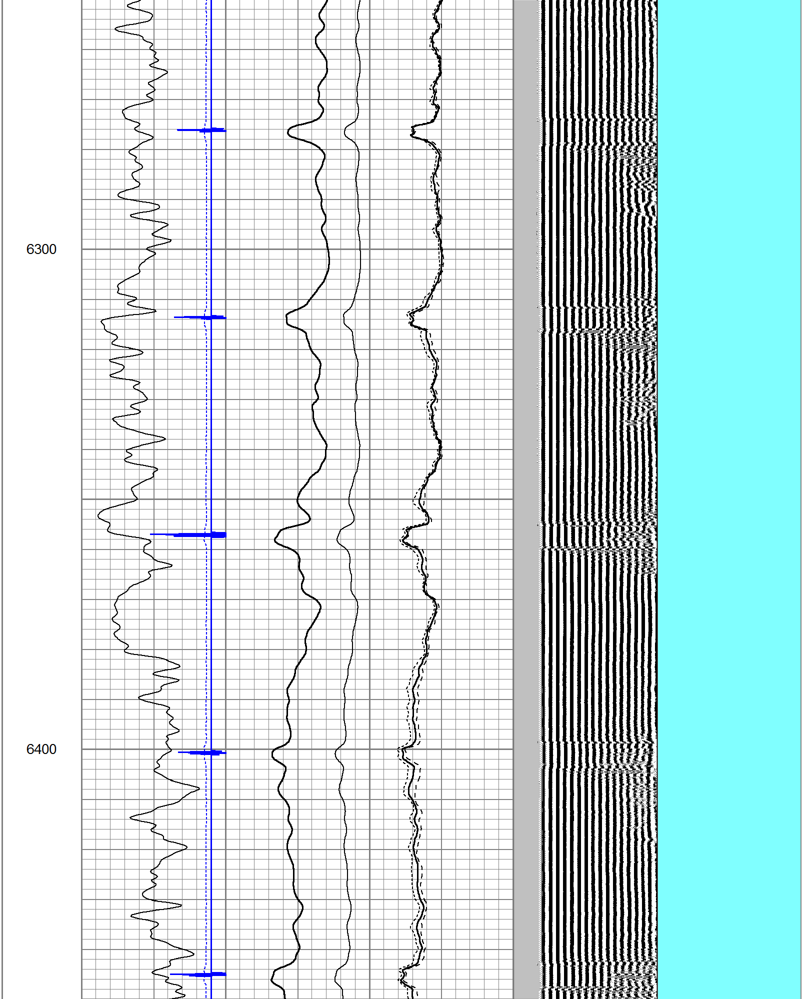


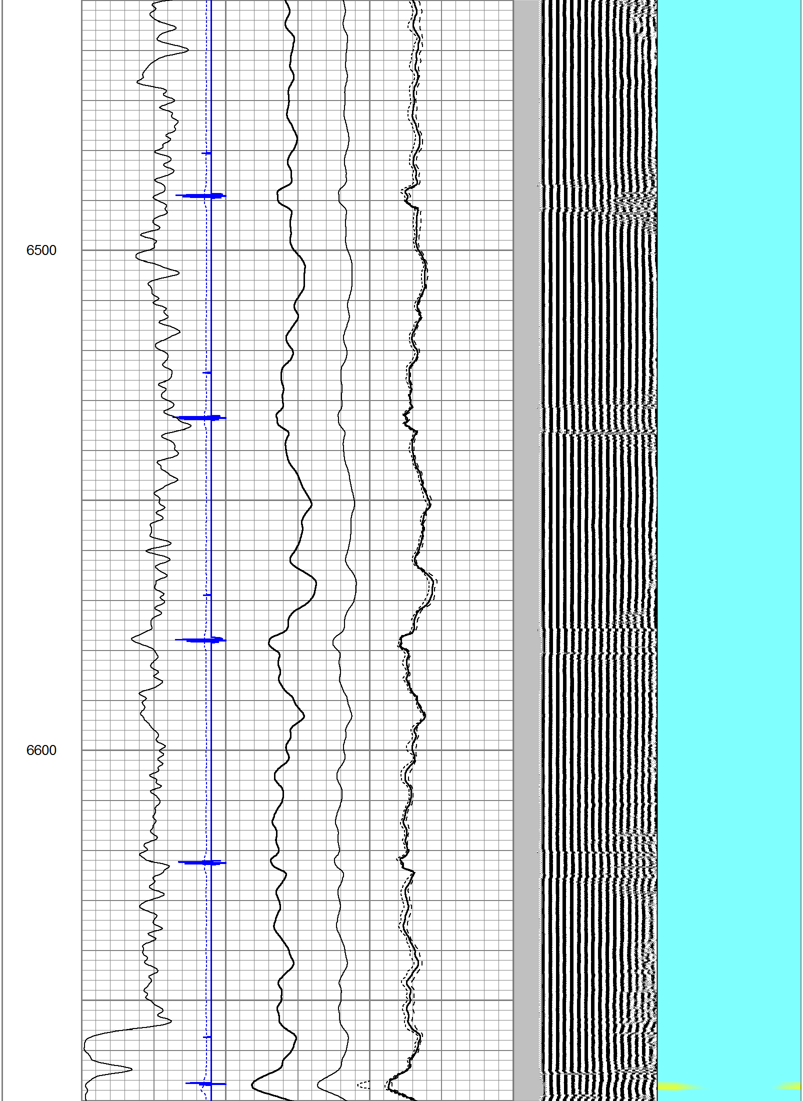


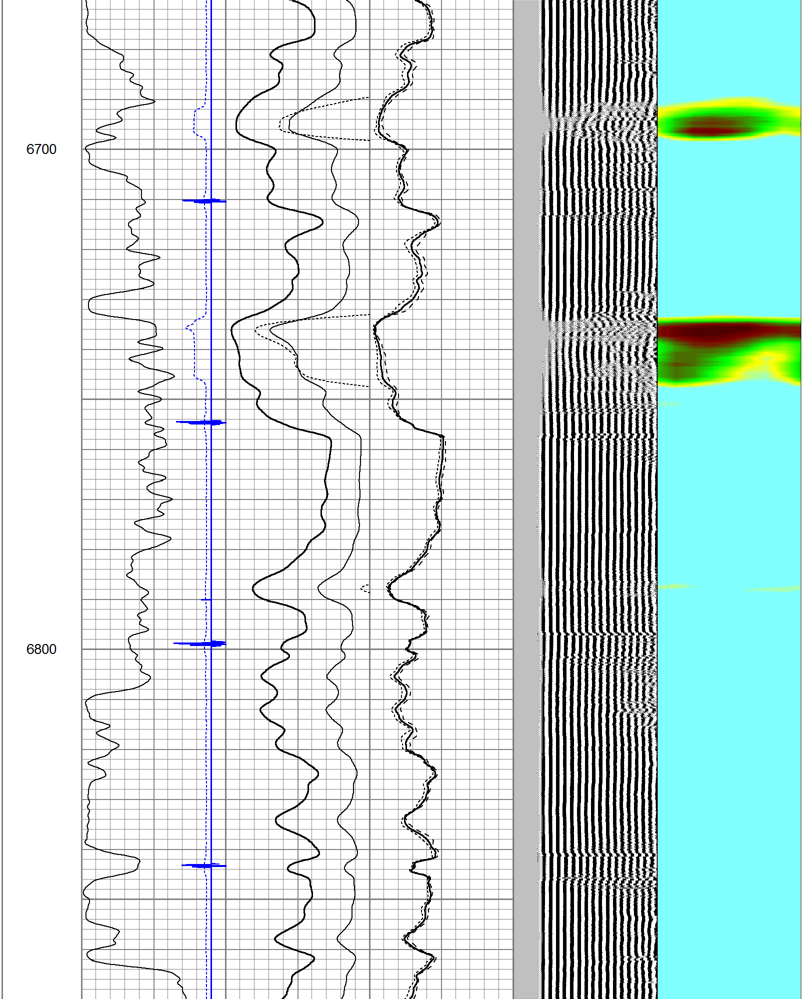


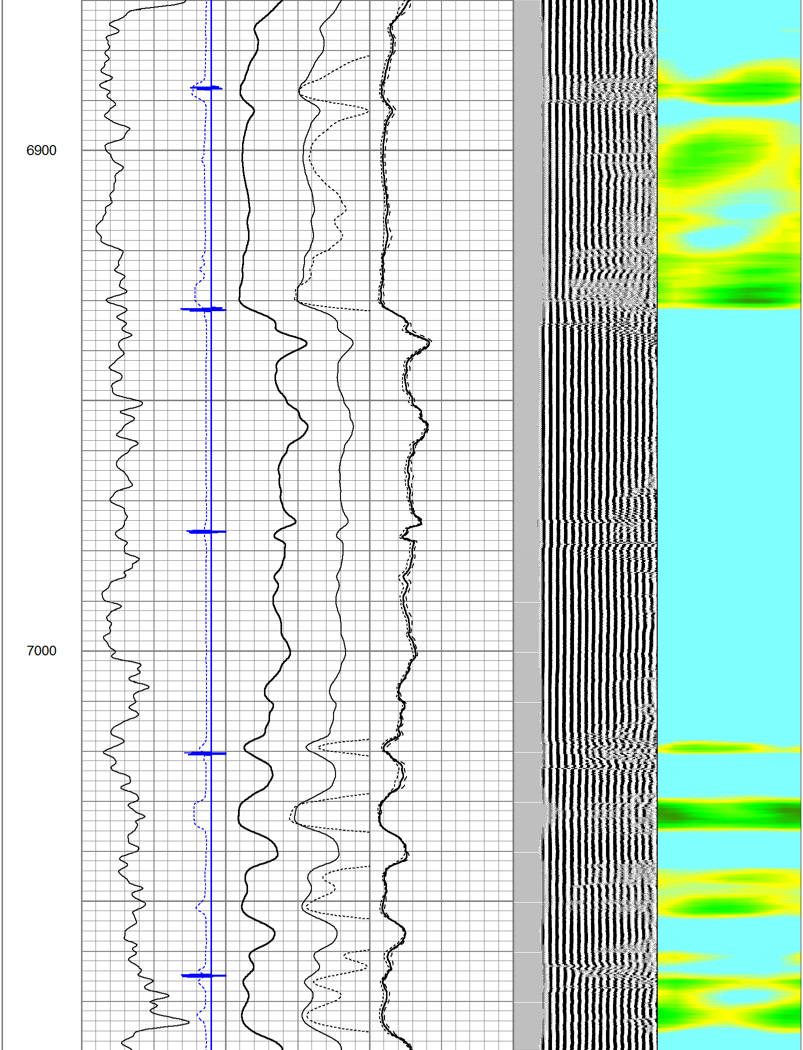


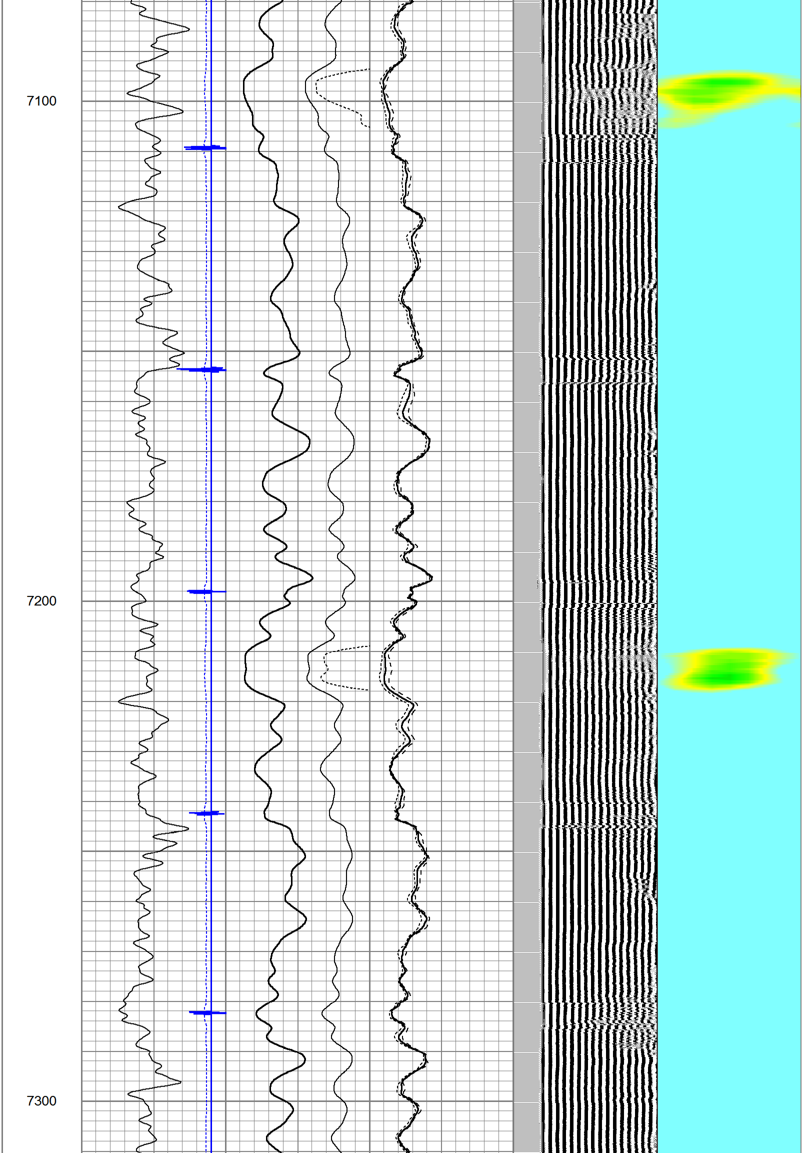


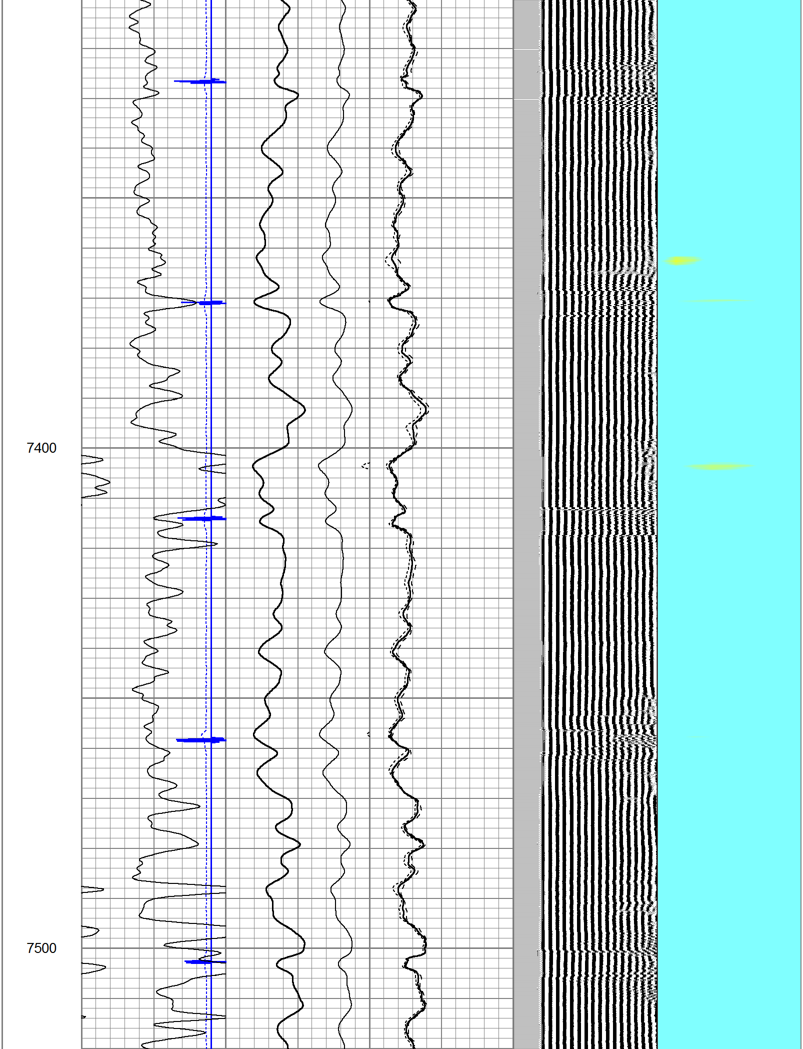


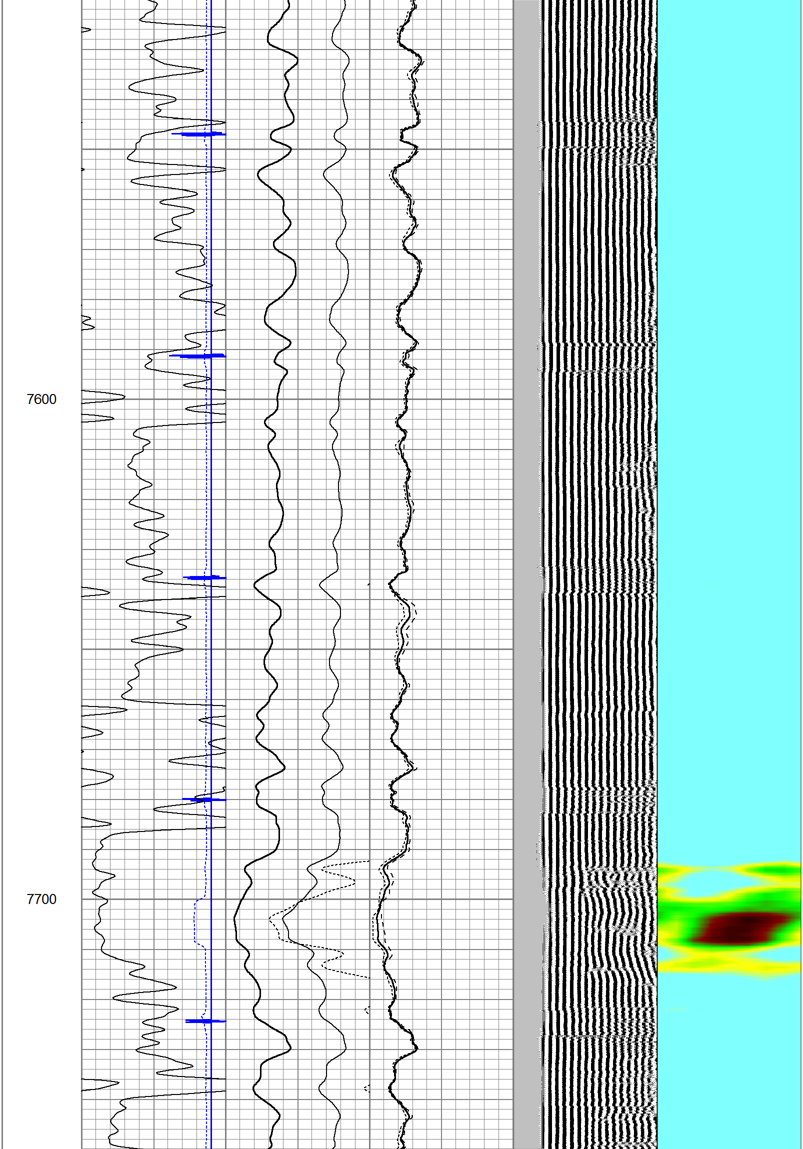


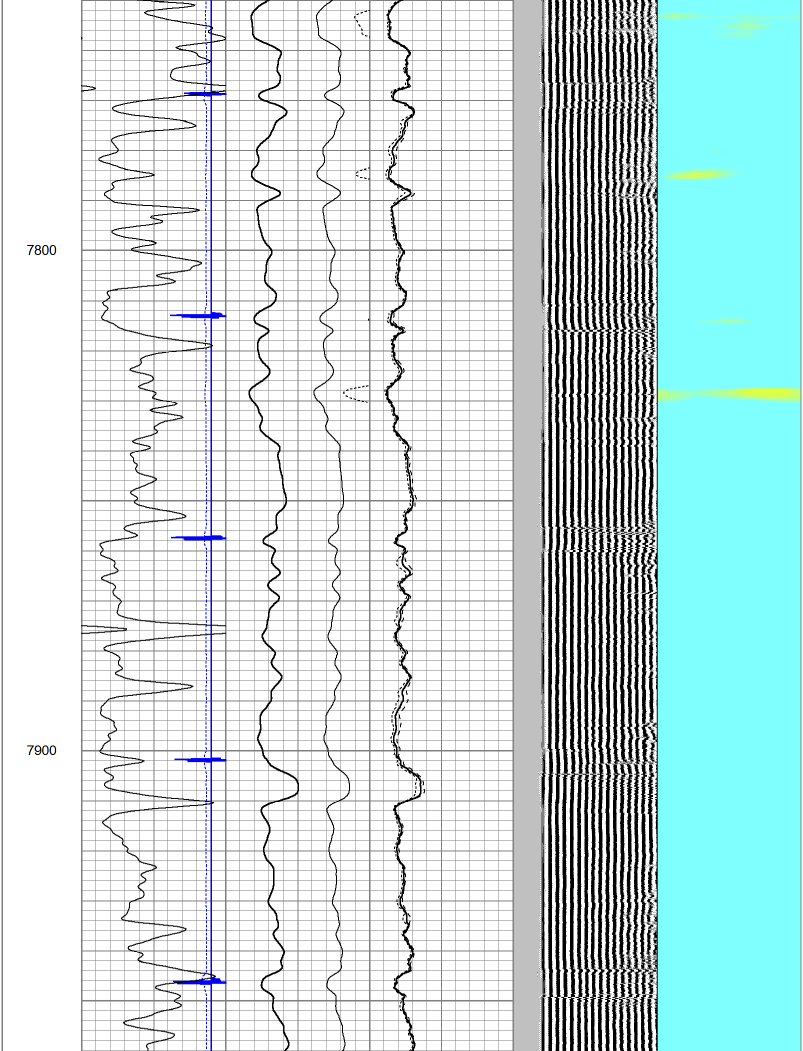


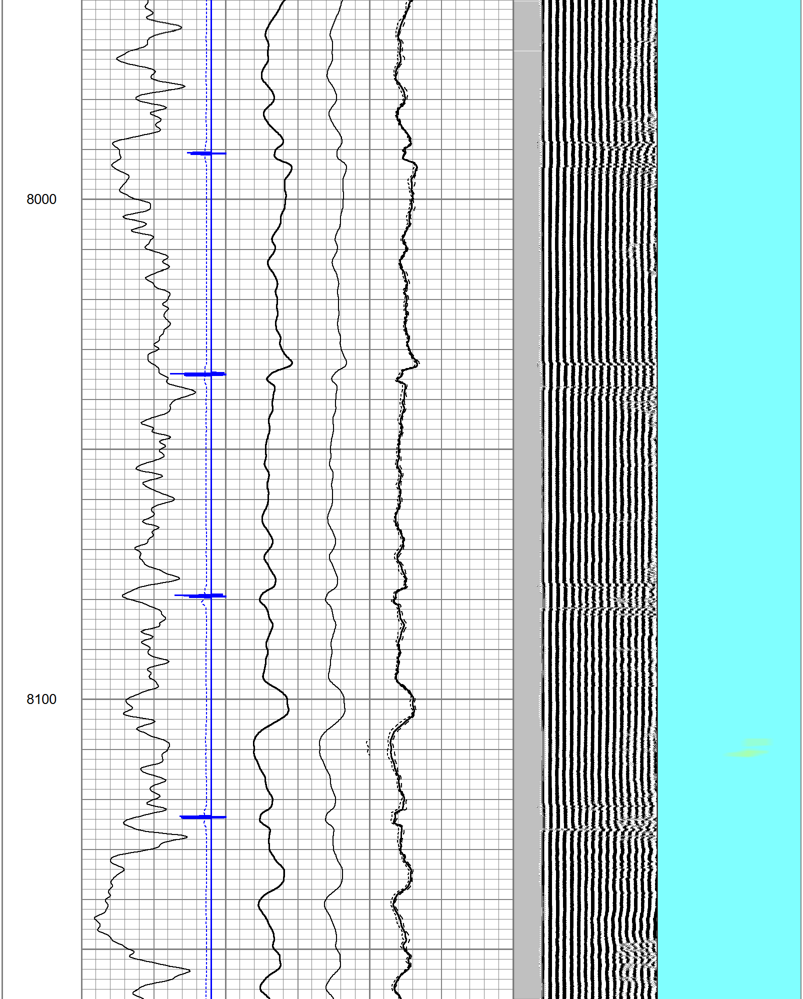


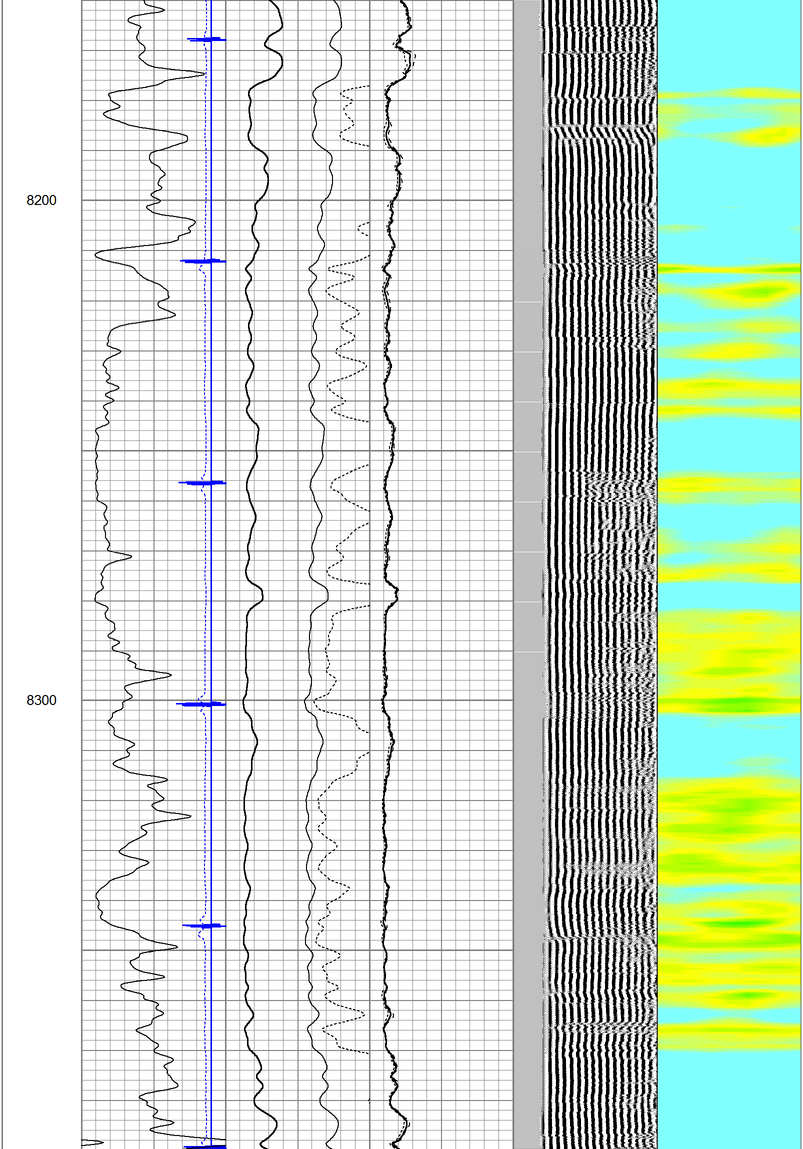


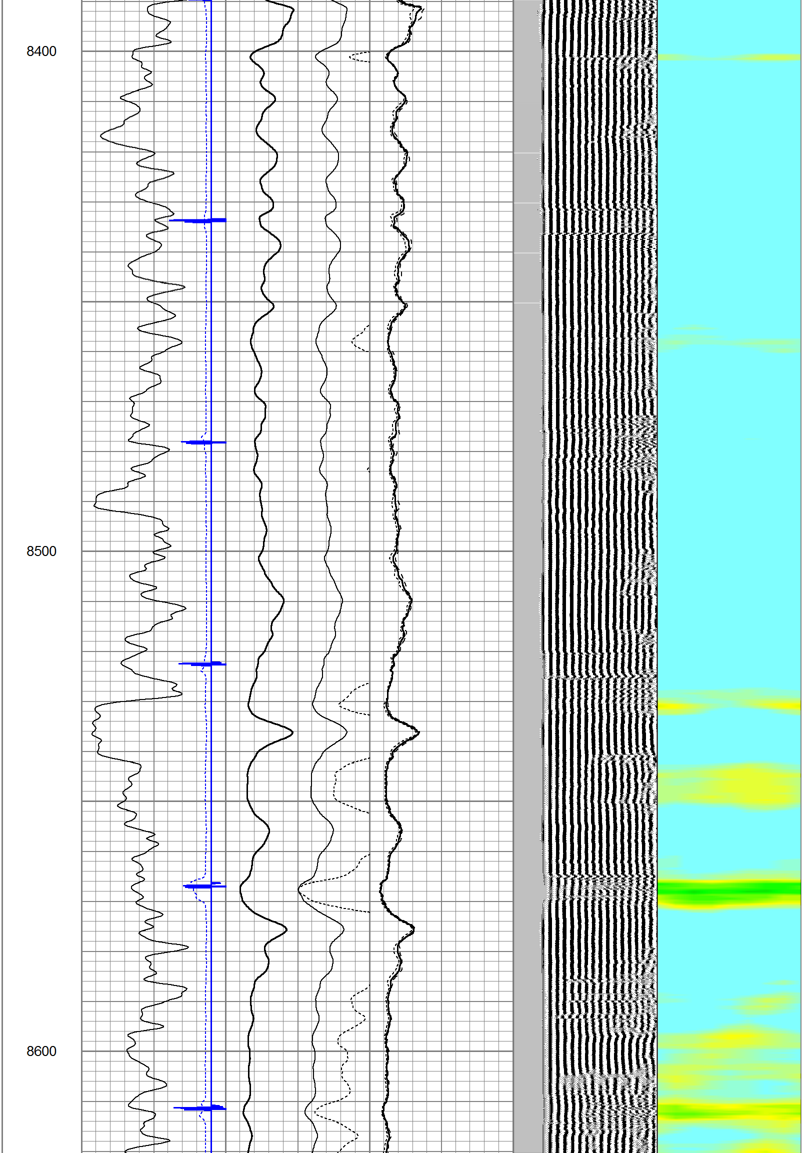


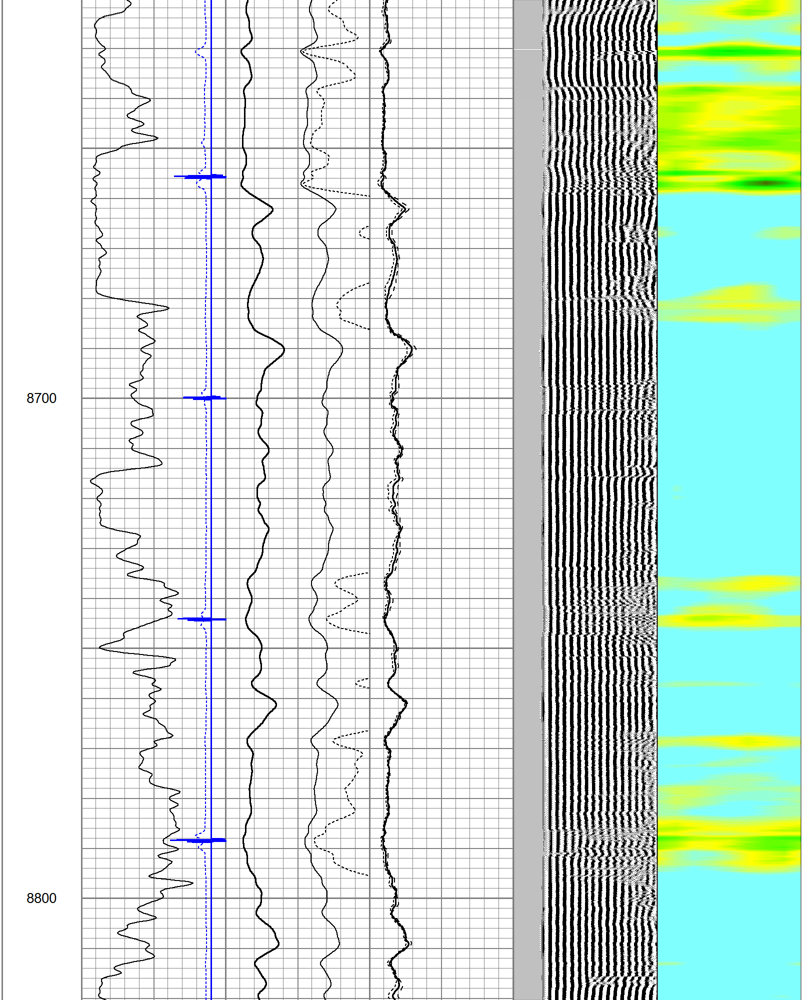


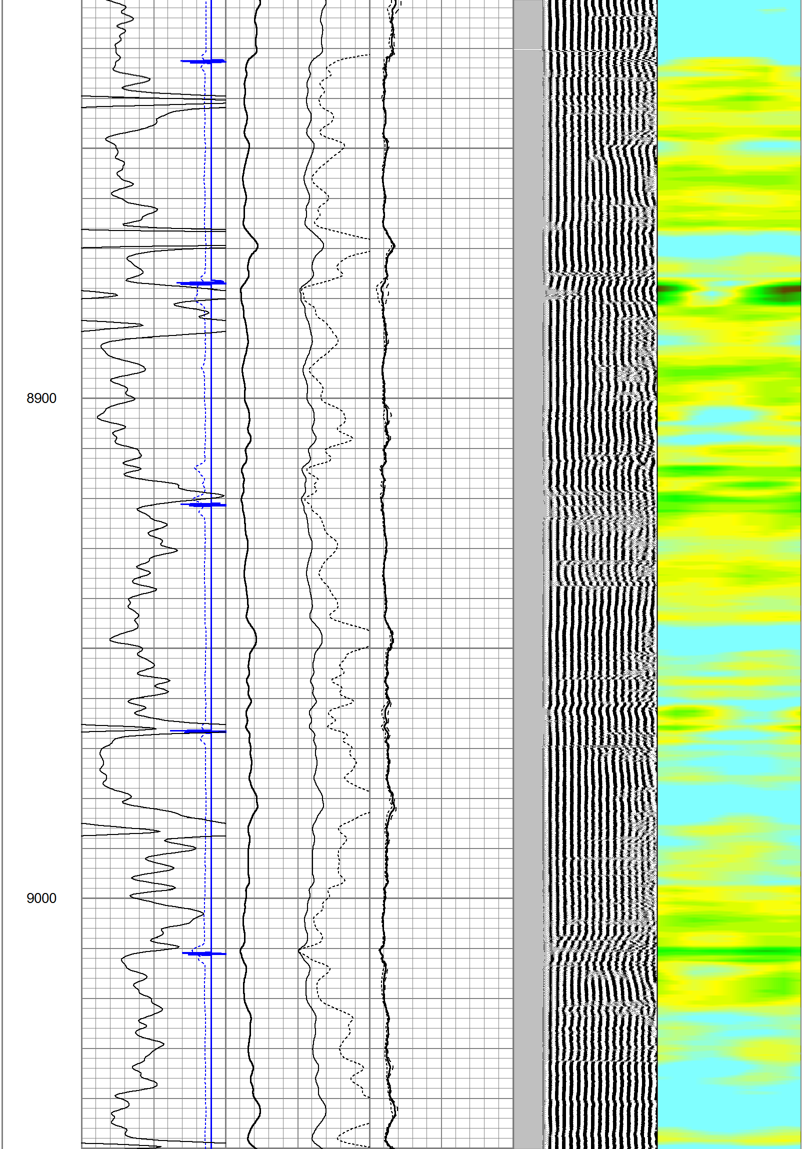


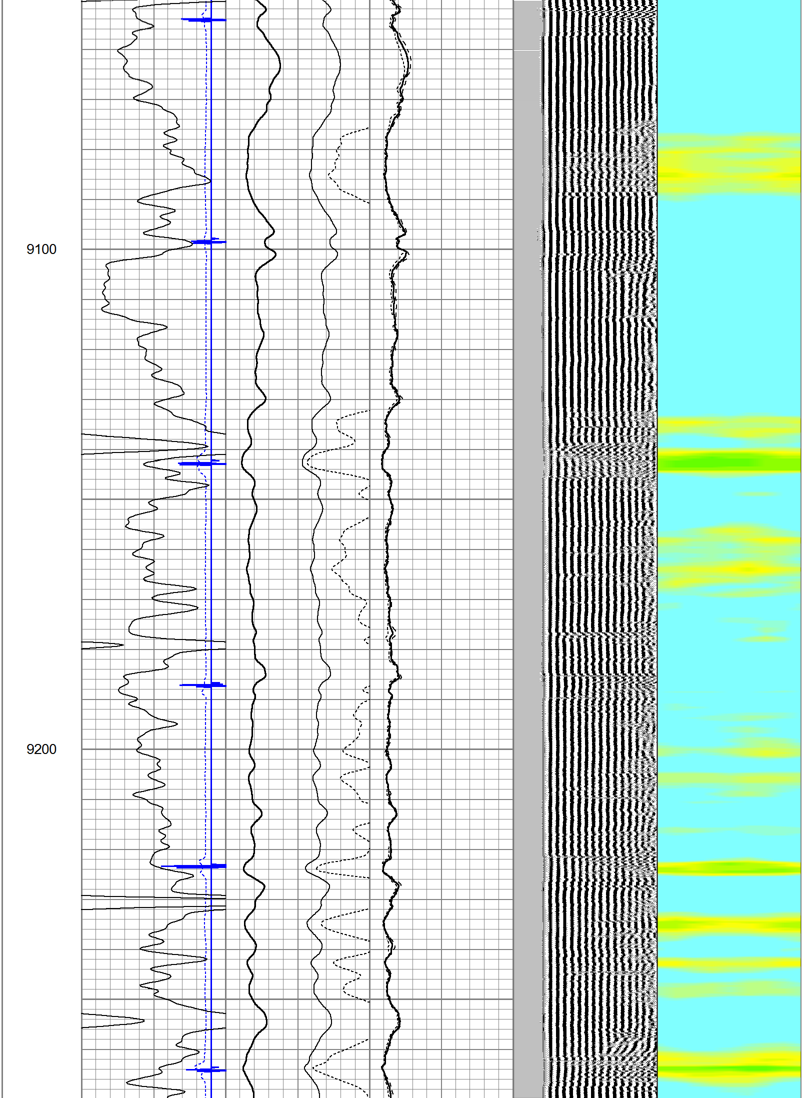


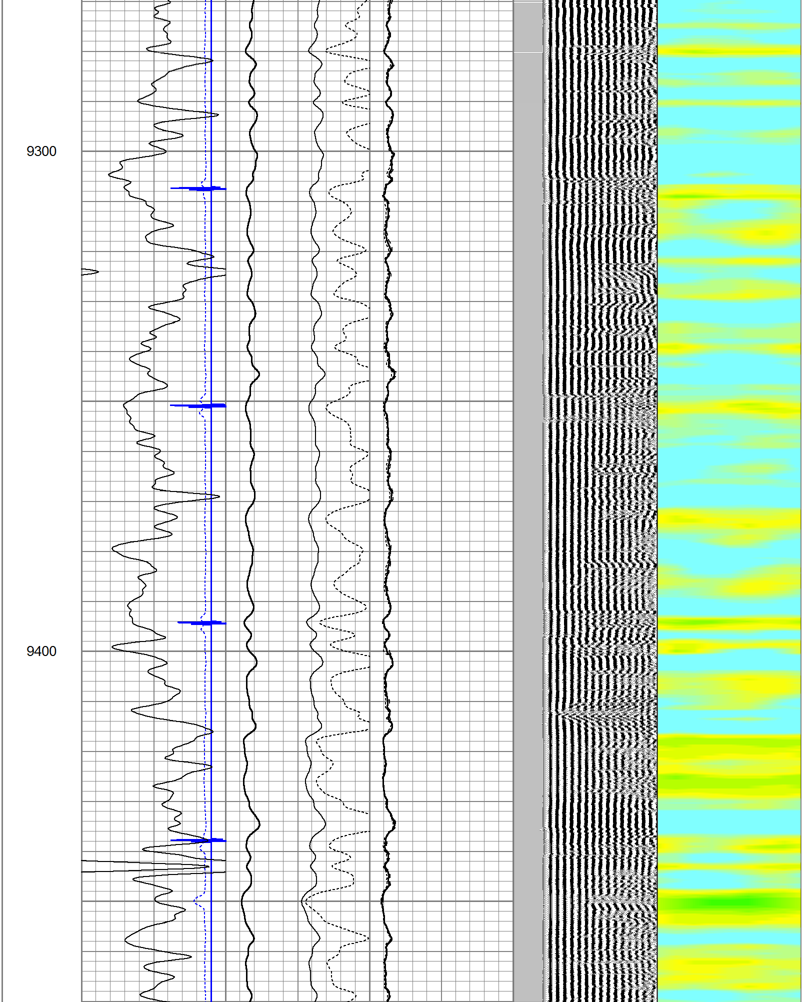


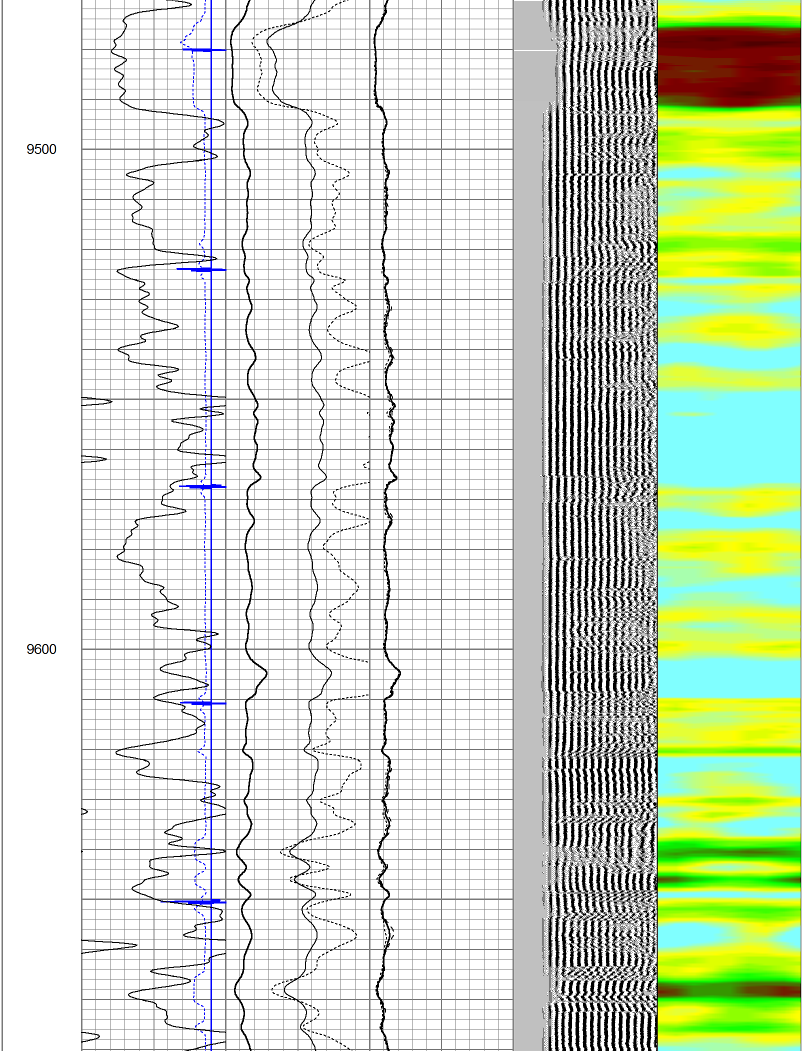


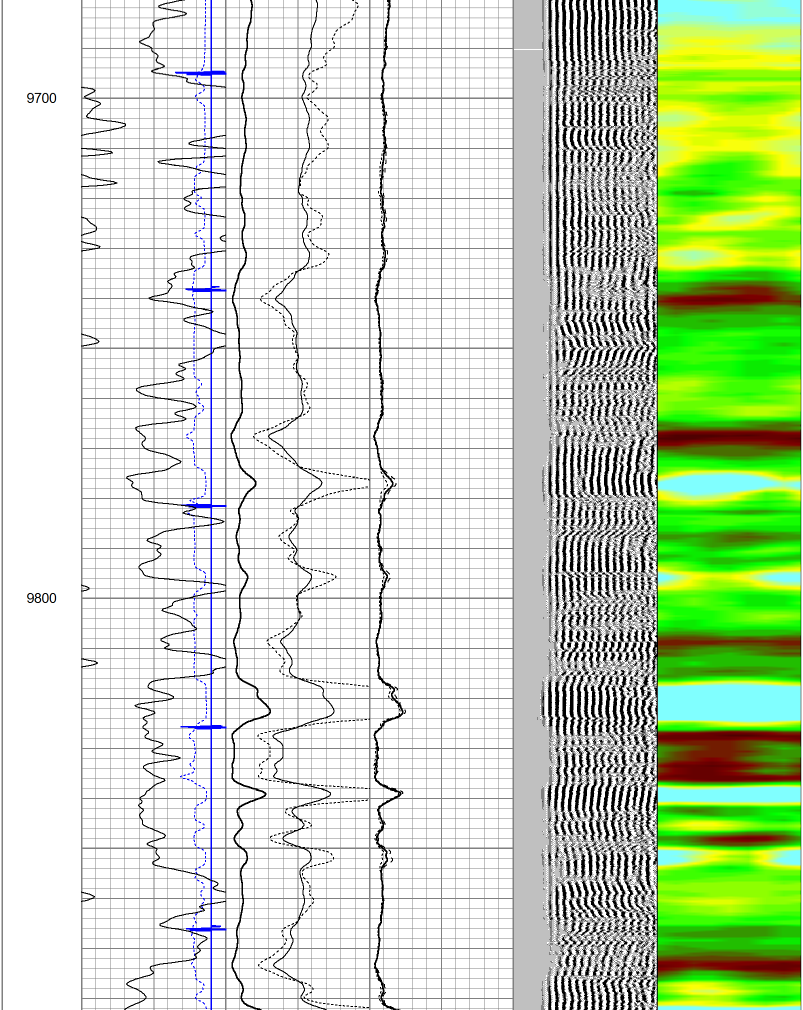


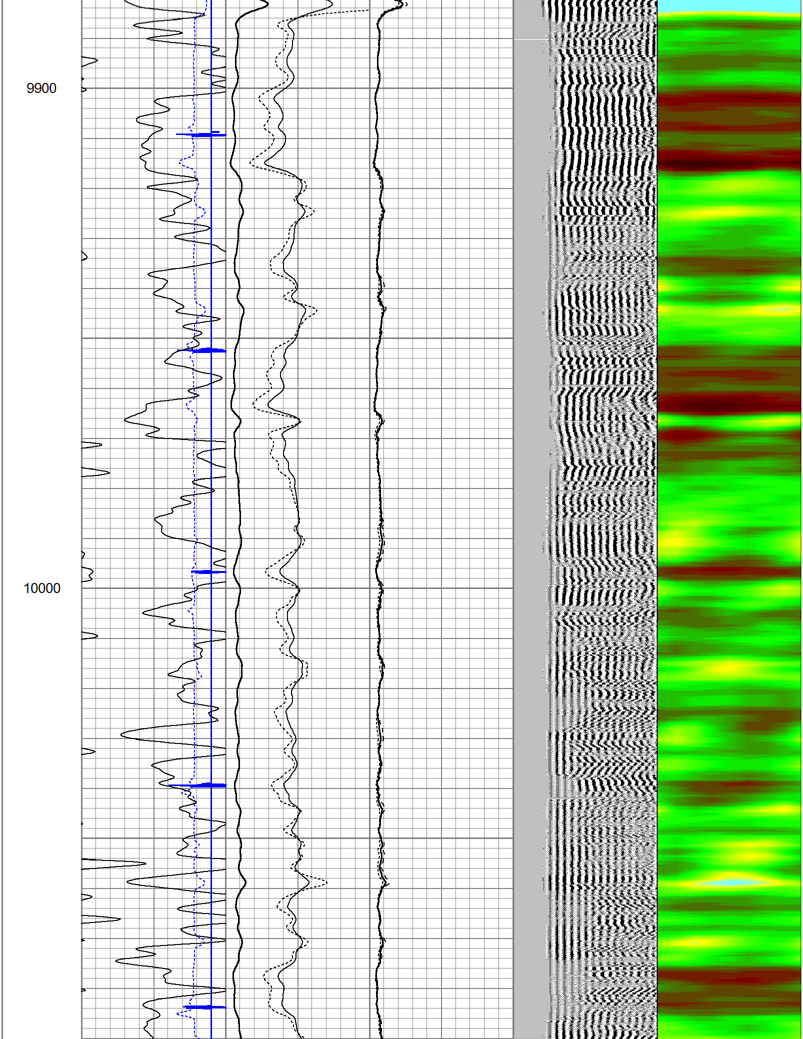


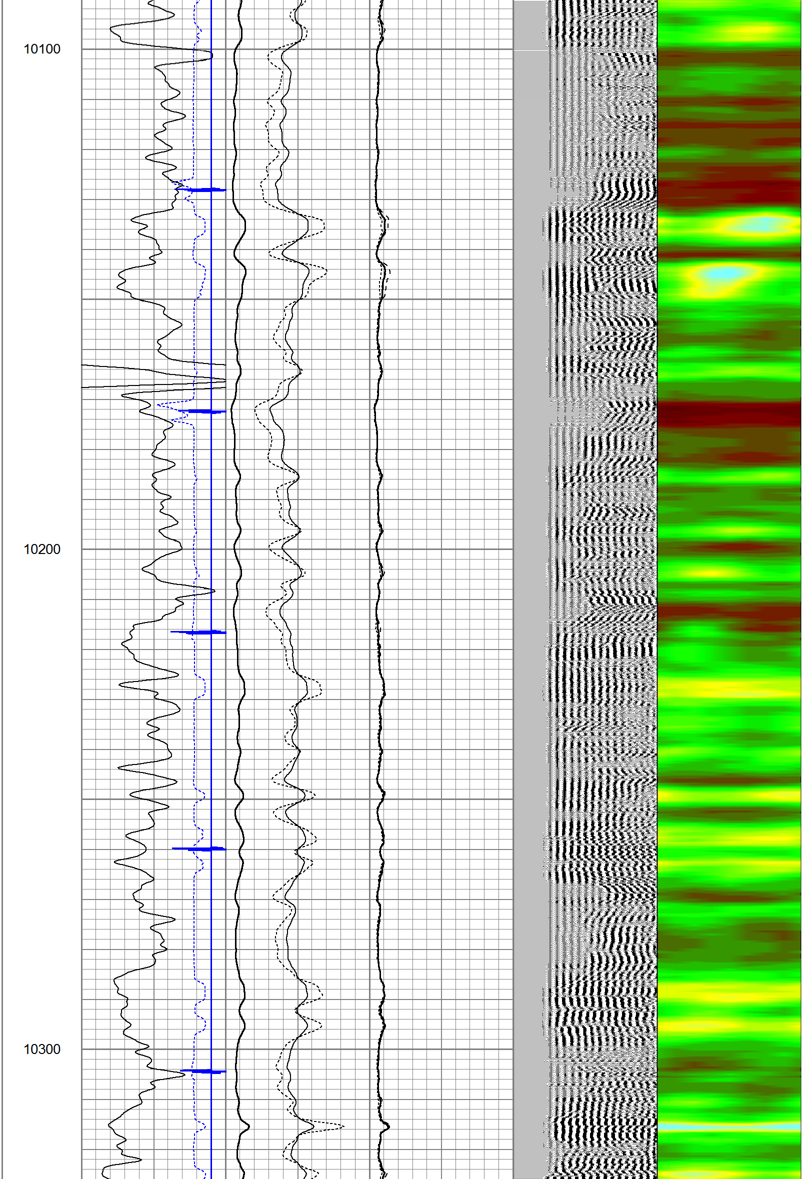


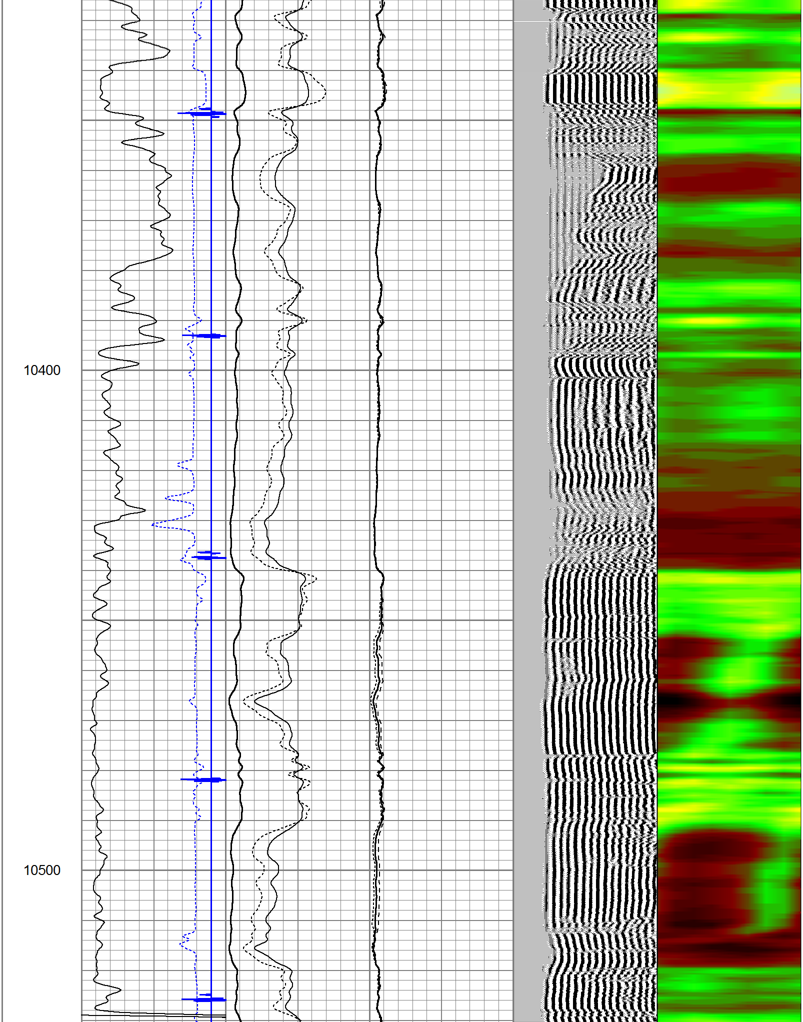


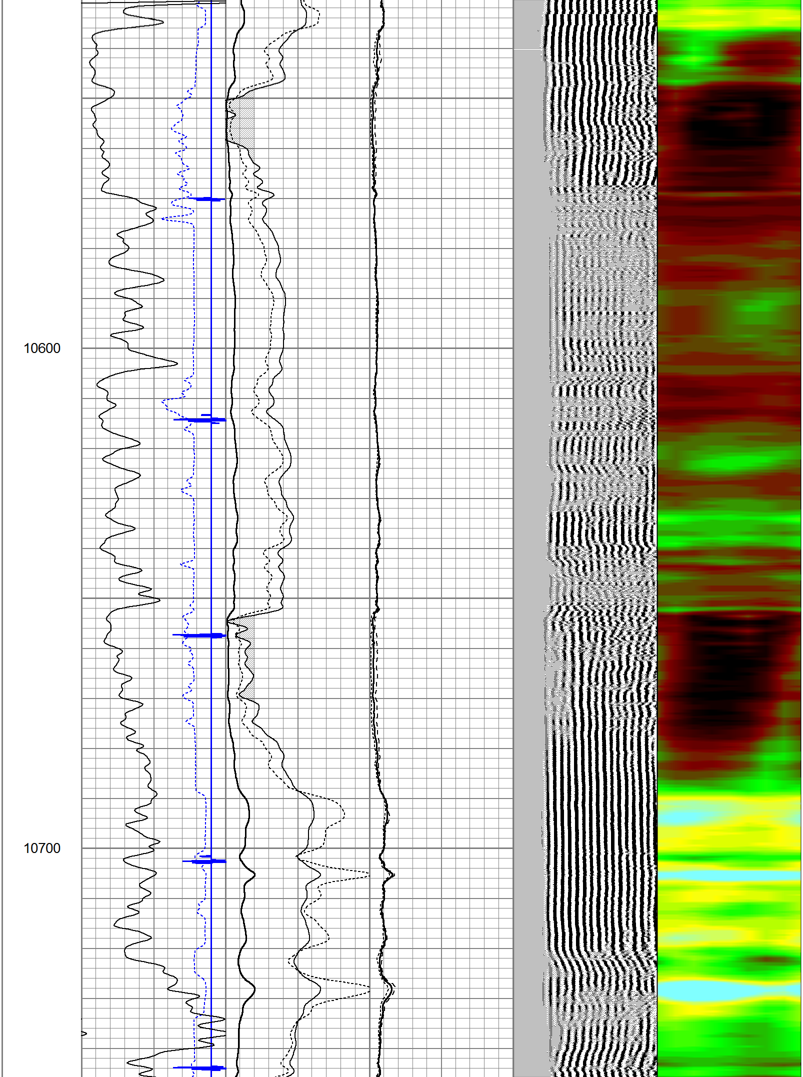


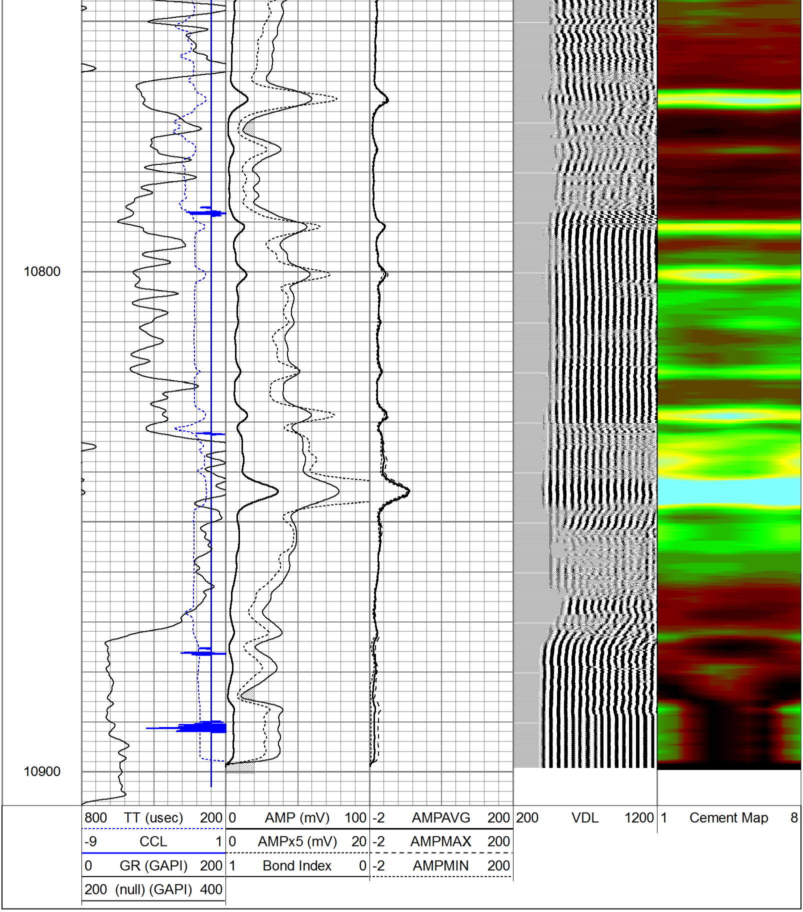








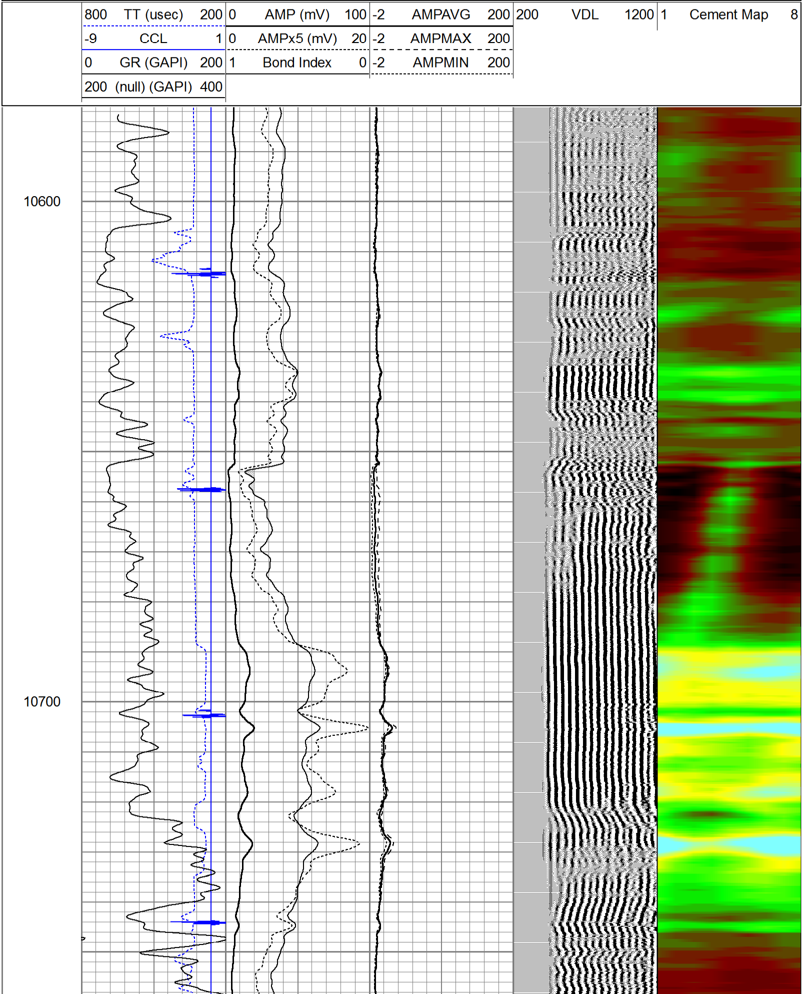


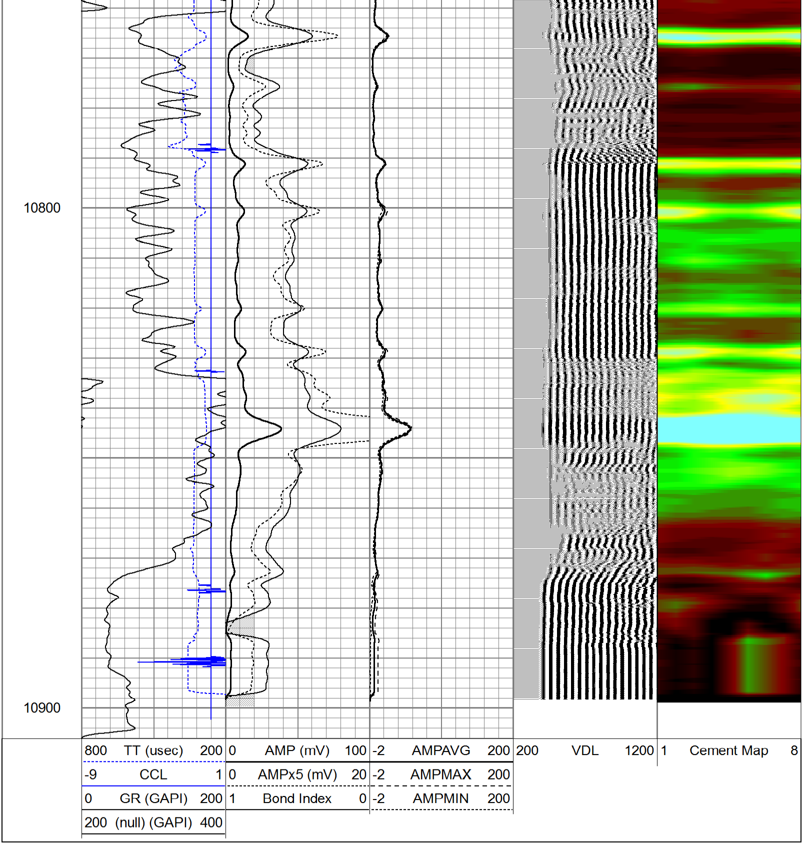


PEAK WIRELINE SERVICES, INC.

REPEAT SECTION

Database File:	graham.db
Dataset Pathname:	1-13/run1/pass1
Presentation Format:	scbl02
Dataset Creation:	Fri Mar 07 17:34:27 2014 by Log Std Casedhole 10071
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: graham.db
Dataset Pathname: 1-13/run1/pass1
Dataset Creation: Fri Mar 07 17:34:27 2014 by Log Std Casedhole 10071

Gamma Ray Calibration Report

Serial Number: 061120GR
Tool Model: PROBE
Performed: Sun Mar 02 08:09:07 2014

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: 4.5040904
Tool Model: Probe

Calibration Casing Diameter: 5.500 in
Calibration Depth: 498.442 ft

Master Calibration, performed Fri Mar 07 17:10:30 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	1.284	0.250	71.921	56.449	-0.585
CAL	1.530	1.488				
5'	0.014	1.220	0.250	71.921	59.449	-0.593
SUM						
S1	0.012	1.293	0.250	100.000	77.845	-0.660
S2	0.014	1.290	0.250	100.000	78.176	-0.809
S3	0.014	1.272	0.250	100.000	79.295	-0.889
S4	0.014	1.266	0.250	100.000	79.690	-0.890
S5	0.014	1.260	0.250	100.000	80.077	-0.871
S6	0.014	1.265	0.250	100.000	79.748	-0.884
S7	0.014	1.264	0.250	100.000	79.779	-0.857
S8	0.014	1.276	0.250	100.000	79.060	-0.864

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.530	1.488	1.000	0.000

Air Zero Calibration, performed Fri Mar 07 17:09:42 2014:

	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