PIONEER
Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company EnCana Oil & Gas (USA) Inc.
Well Drieth 1C-6H-A368
Field Wattenberg
County Weld
State Colorado CountryUSA

Company	EnCana Oil & Gas (USA) Inc.
Well	Drieth 1C-6H-A368
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

Location: API # : 05-123-37588

SHL: 696' FNL & 434' FEL NENE

SEC 6 TWP 3N RGE 68W

Other Services

None

Permanent Datum	GL	Elevation	5087
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5100
D.F. 5099
G.L. 5087

Date	September 22, 2014		
Run Number	1		
Depth Driller	11422		
Depth Logger	7353		
Bottom Logged Interval	7346		
Top Log Interval	0		
Open Hole Size	8-3/4"		
Type Fluid	WBM		
Density / Viscosity	10.5 / 38		
Max. Recorded Temp.	NA		
Estimated Cement Top	786		
Time Well Ready	1300		
Time Logger on Bottom	1400		
Equipment Number	49		
Location	Ft. Morgan, CO		
Recorded By	Clint Christensen		
Witnessed By	George Cobb		

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	7"	26 lbs	0	7570'
Liner				

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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.

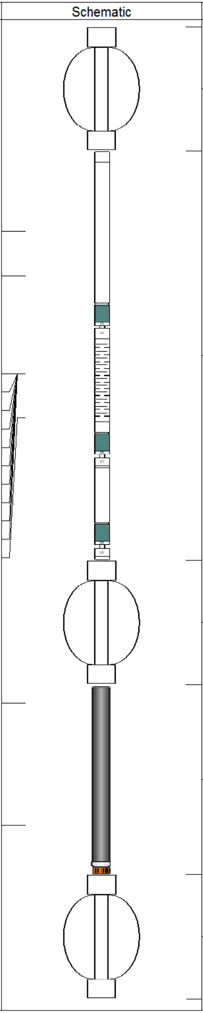
Comments

Depth Correlated to 7" Tally

Ensign 135

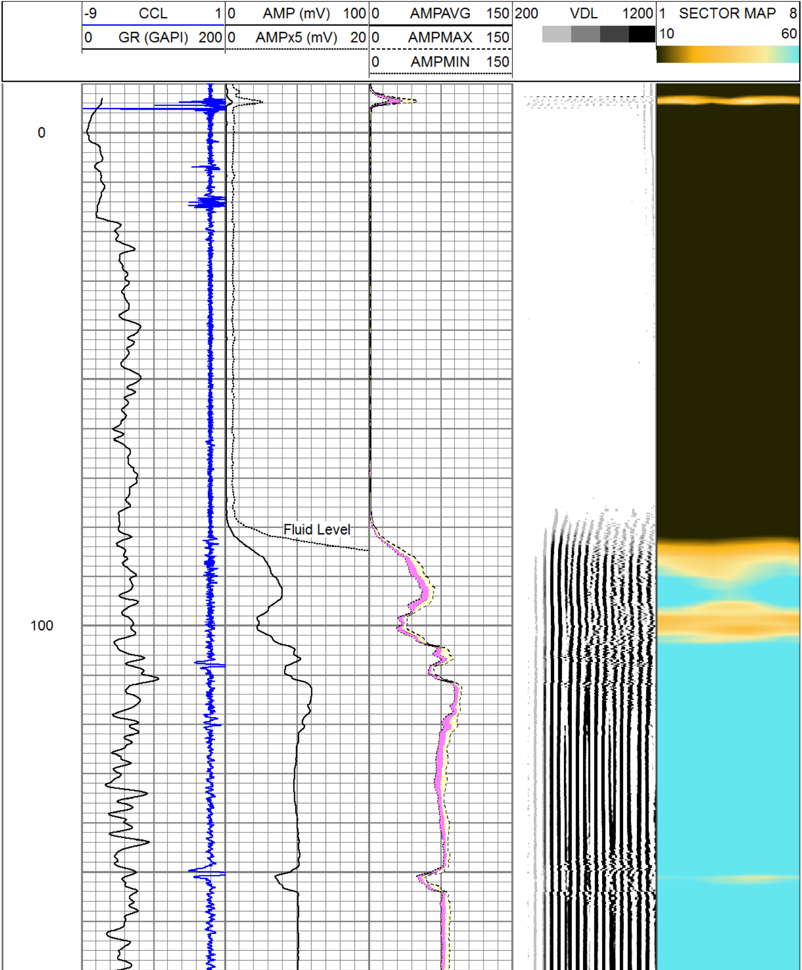
Thank You for using Pioneer Energy Services

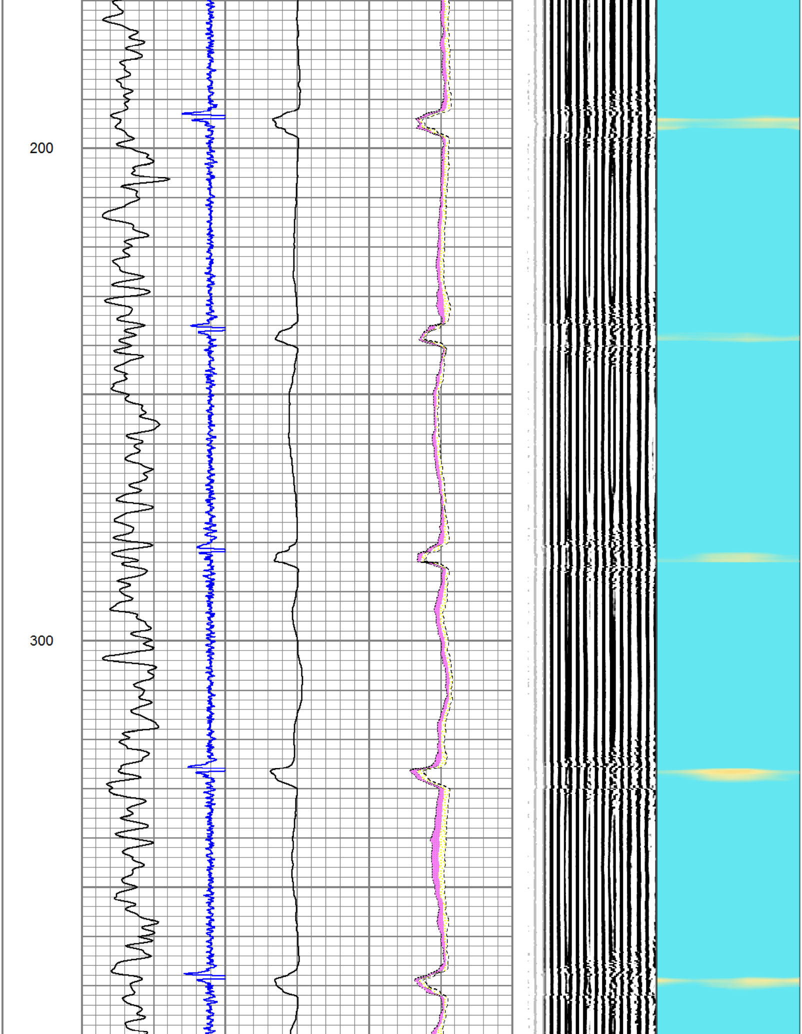
SO# 2-013688

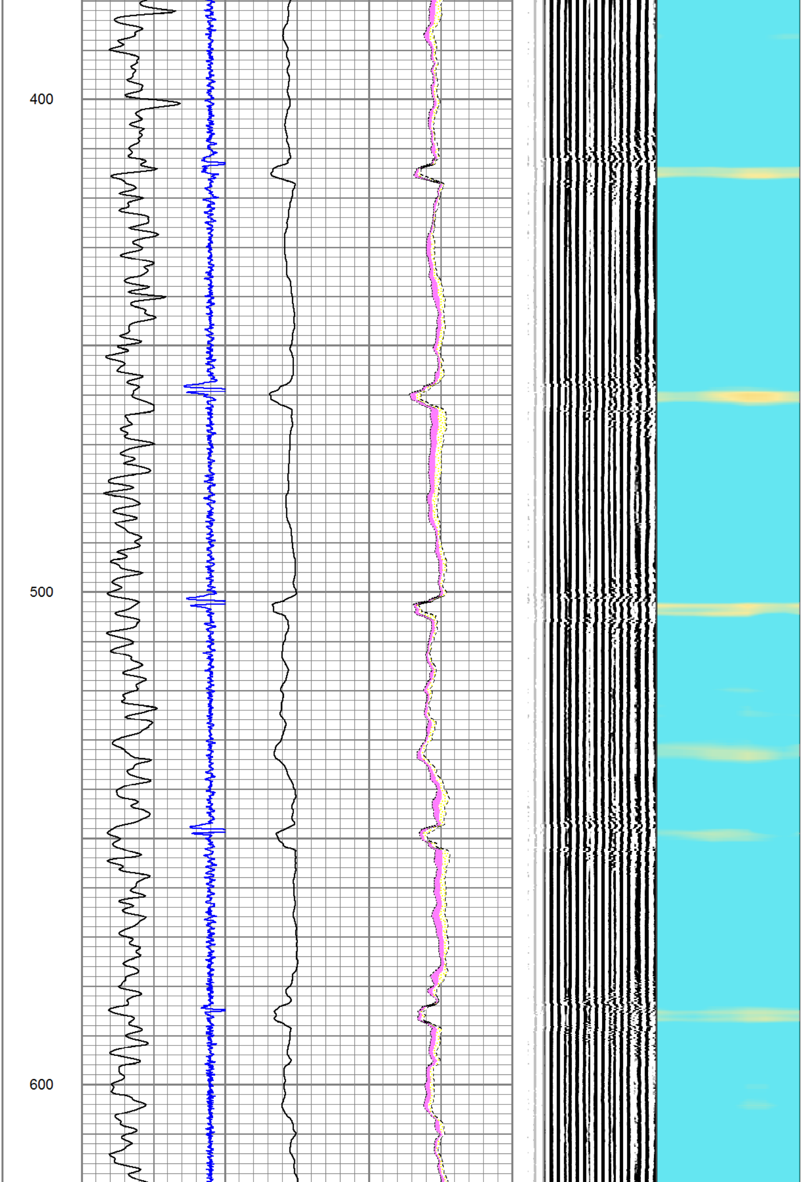
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	17.49					
TEMP	16.47					
			RBT-RBT-C3 (130584) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
WVF3FT	14.24					
WVFCAL	14.24					
WVFS1	14.24					
WVFS2	14.24					
WVFS3	14.24					
WVFS4	14.24					
WVFS5	14.24					
WVFS6	14.24					
WVFS7	14.24					
WVFS8	14.24					
WVF5FT	13.24					
			CENT-A (1)	2.83	2.75	20.00
CCL	6.75					
			GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00
GR	3.96					
			CENT-A (1)	2.83	2.75	20.00

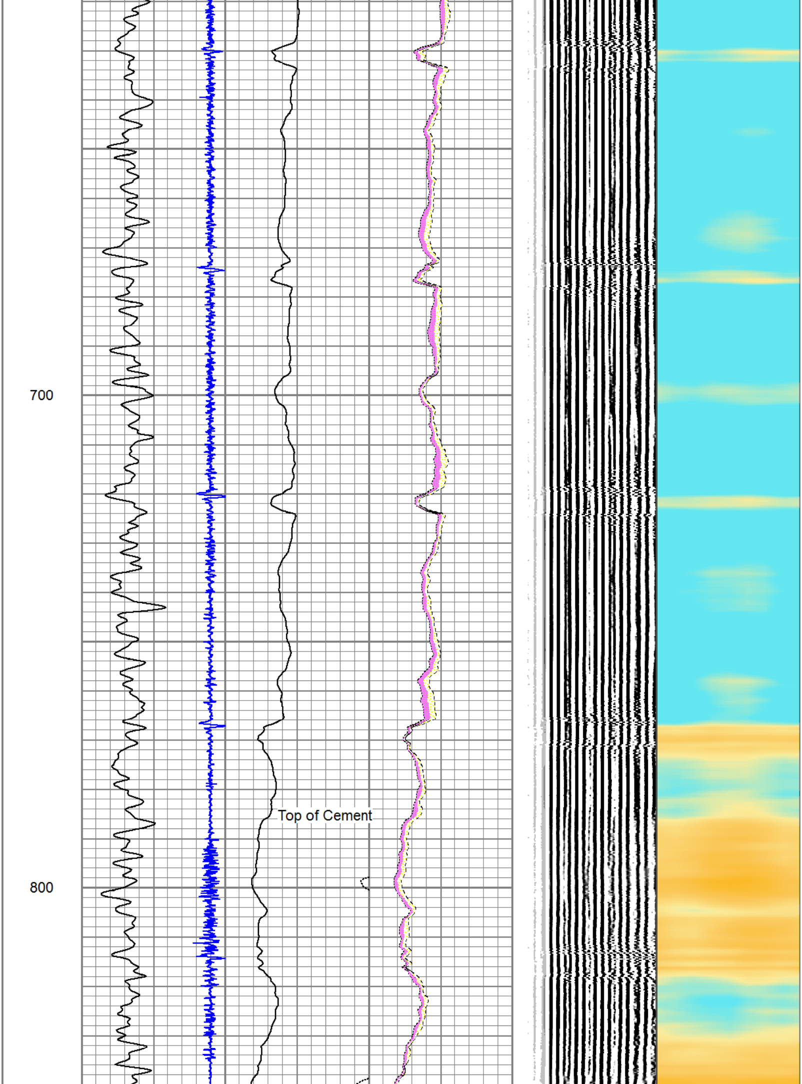
Dataset:	13688.db: field/well/run1/Final
Total Length:	22.15 ft
Total Weight:	250.00 lb
O.D.	2.75 in

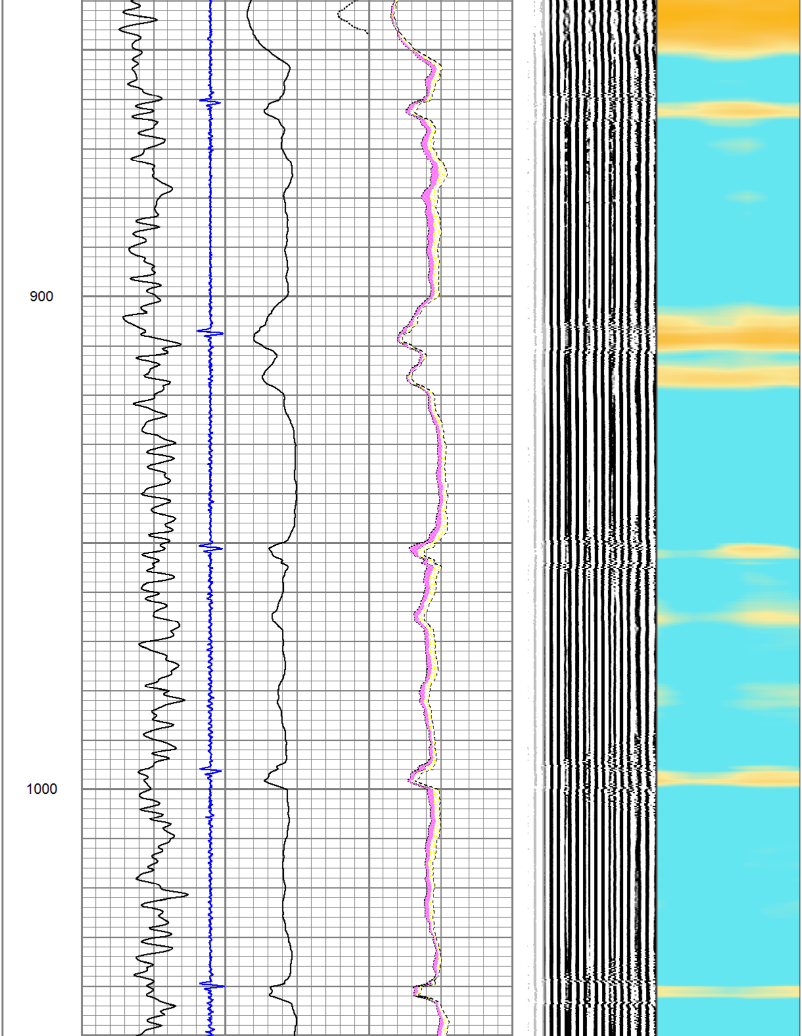
Database File:	13688.db
Dataset Pathname:	Final
Presentation Format:	scbl02
Dataset Creation:	Mon Sep 22 15:38:40 2014
Charted by:	Depth in Feet scaled 1:240

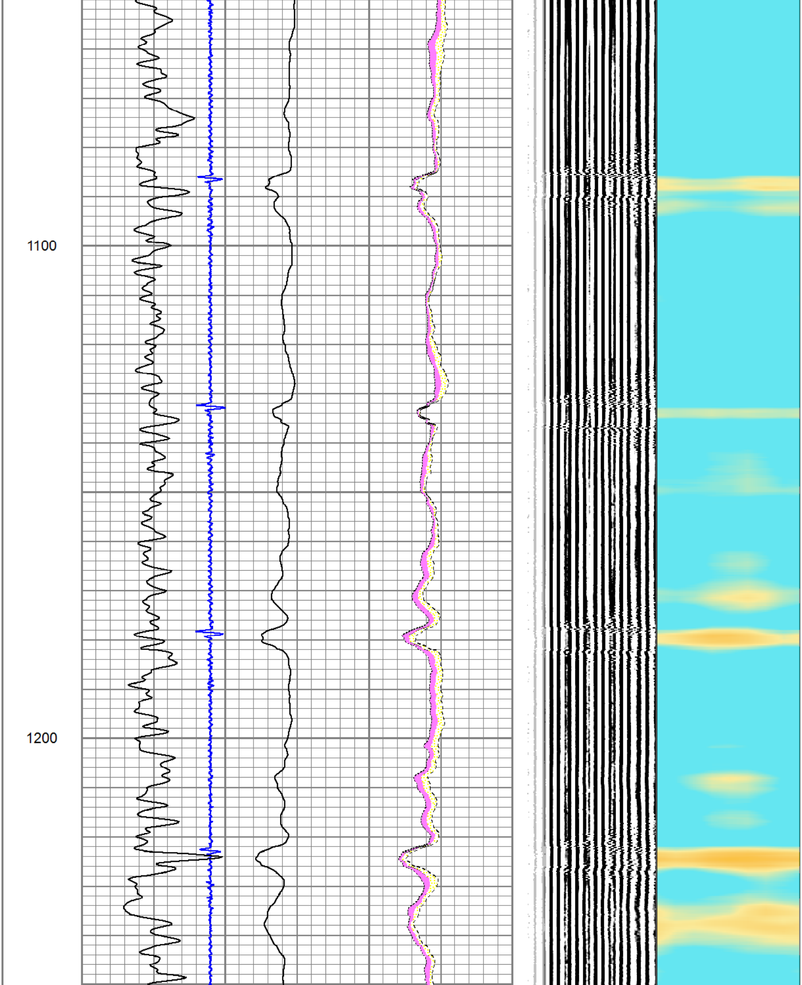


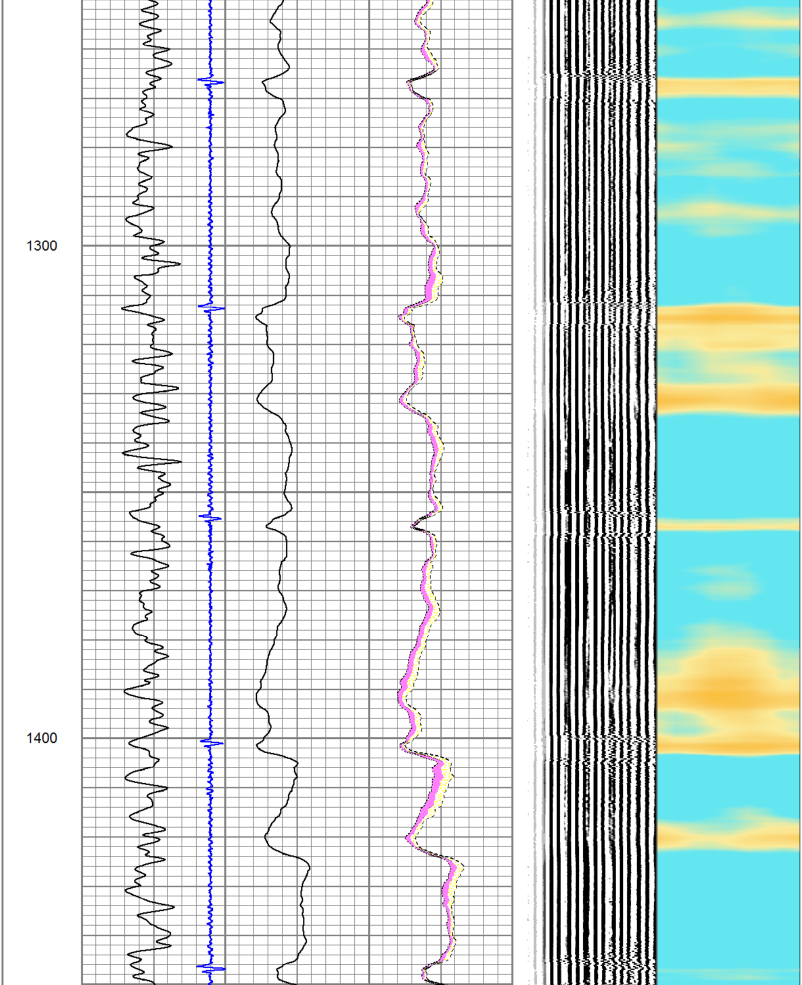


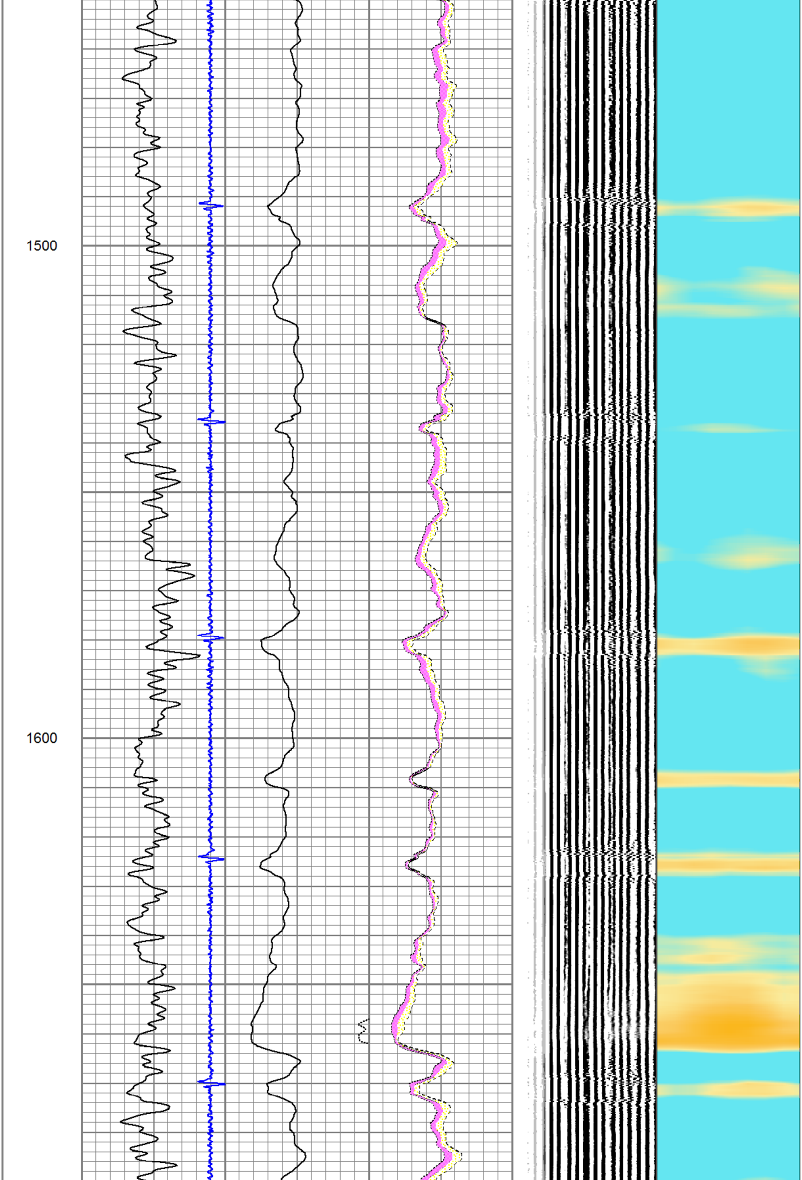


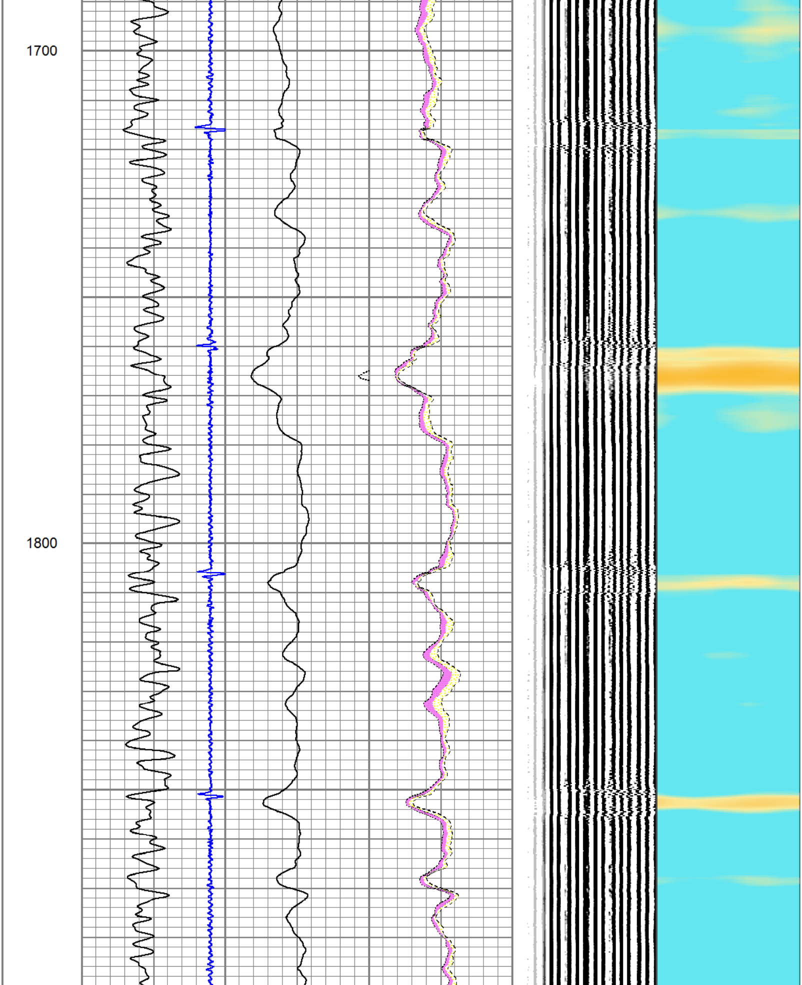


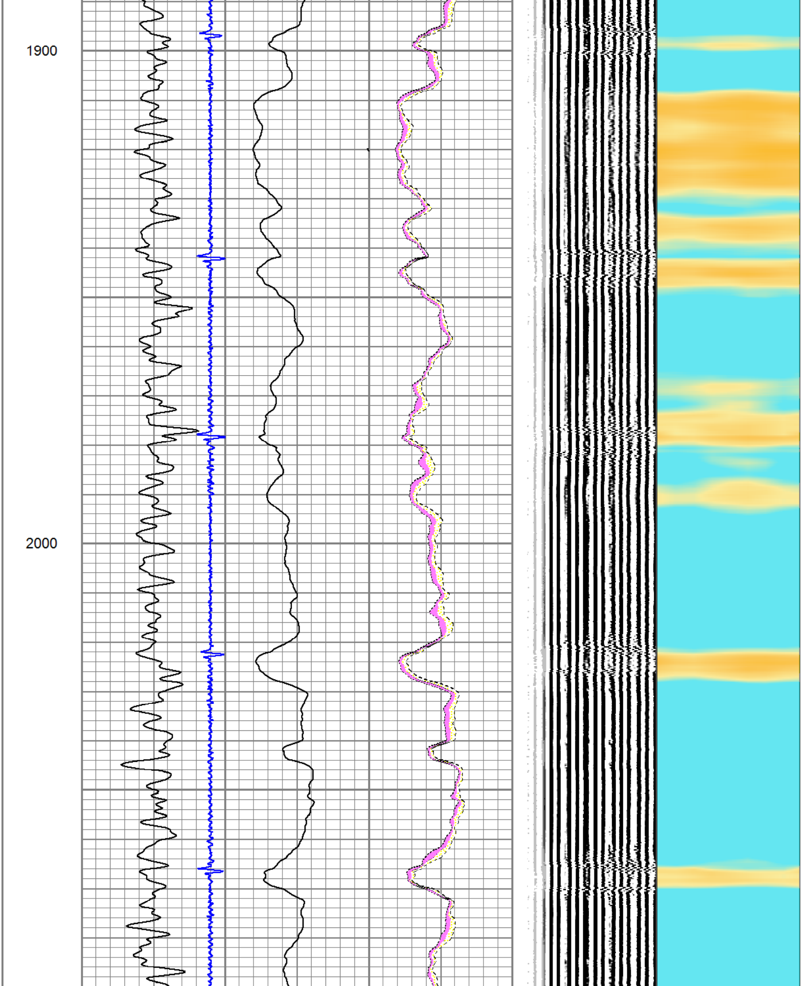


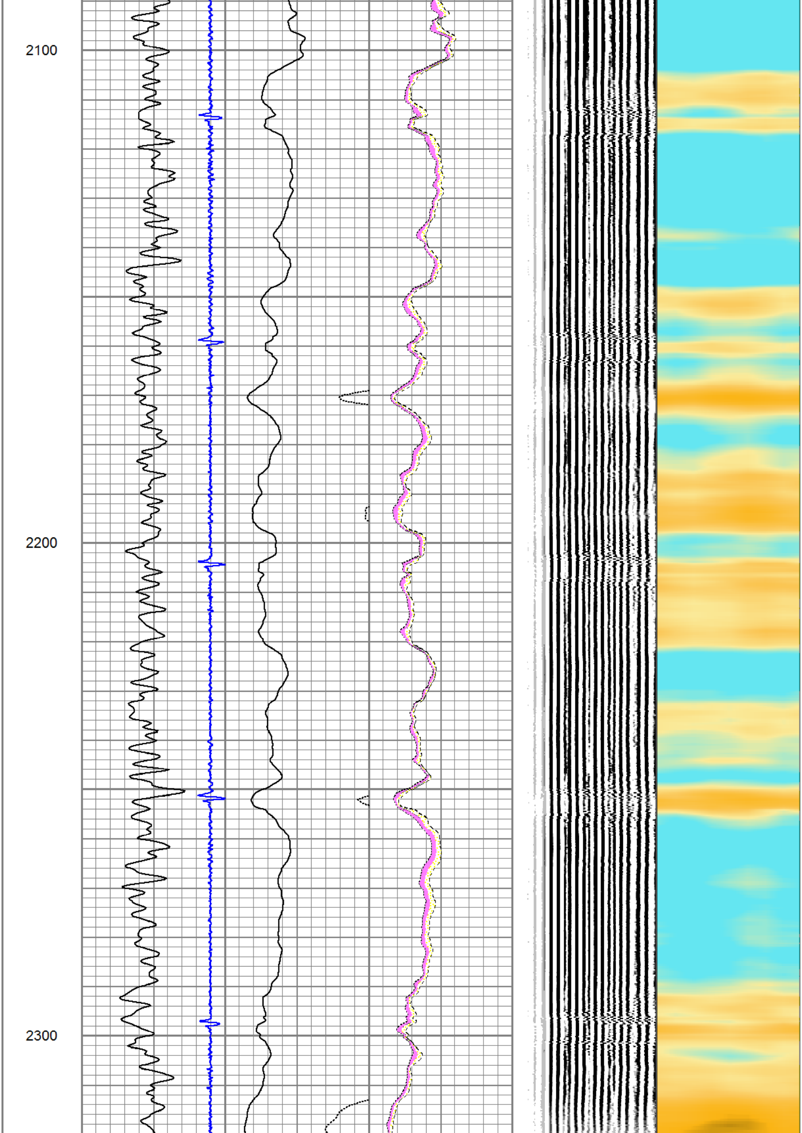


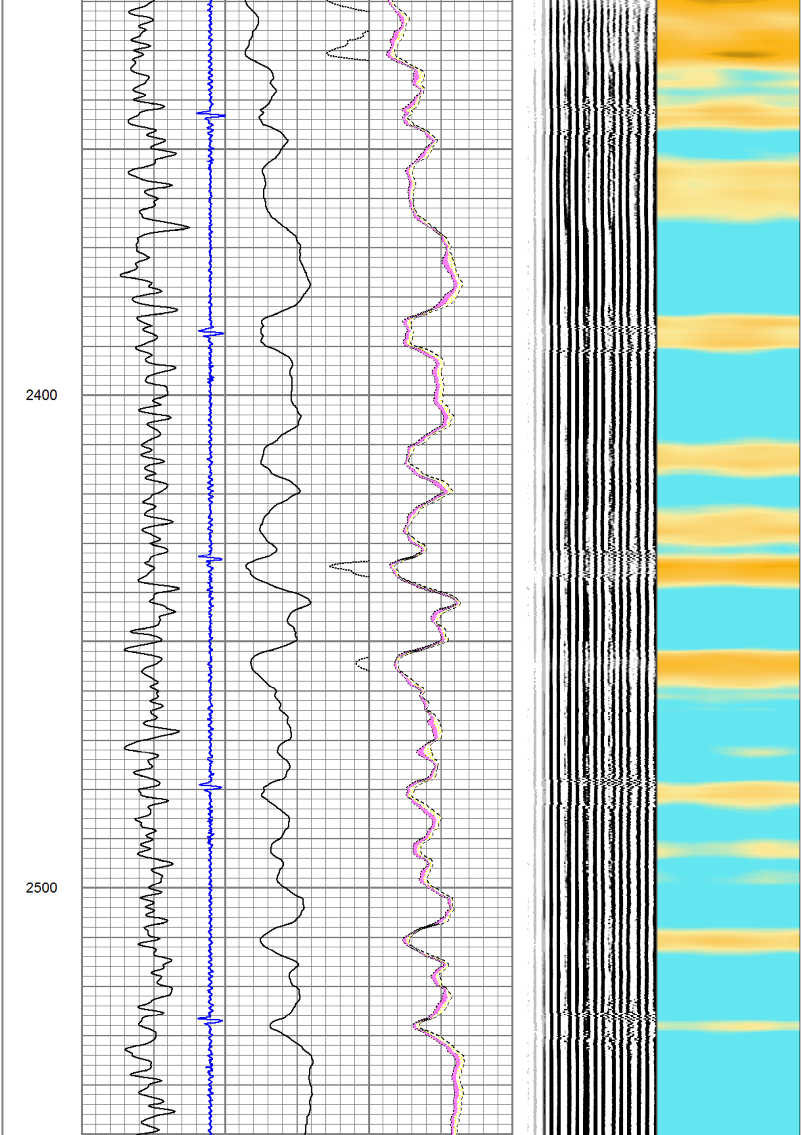


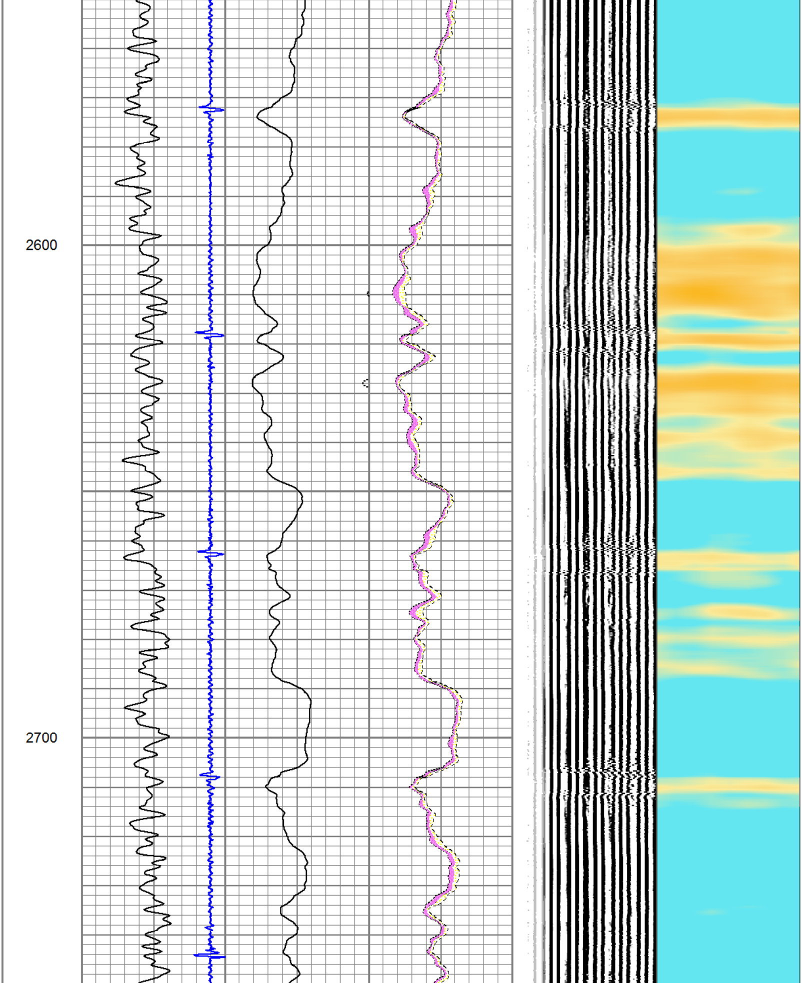


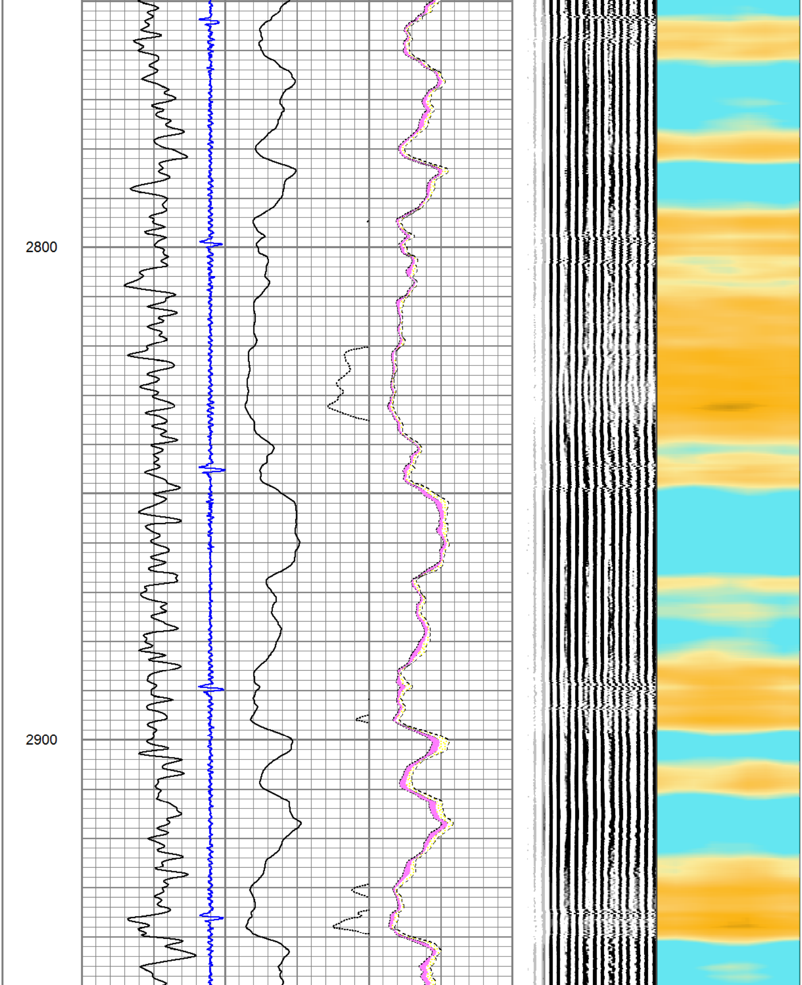


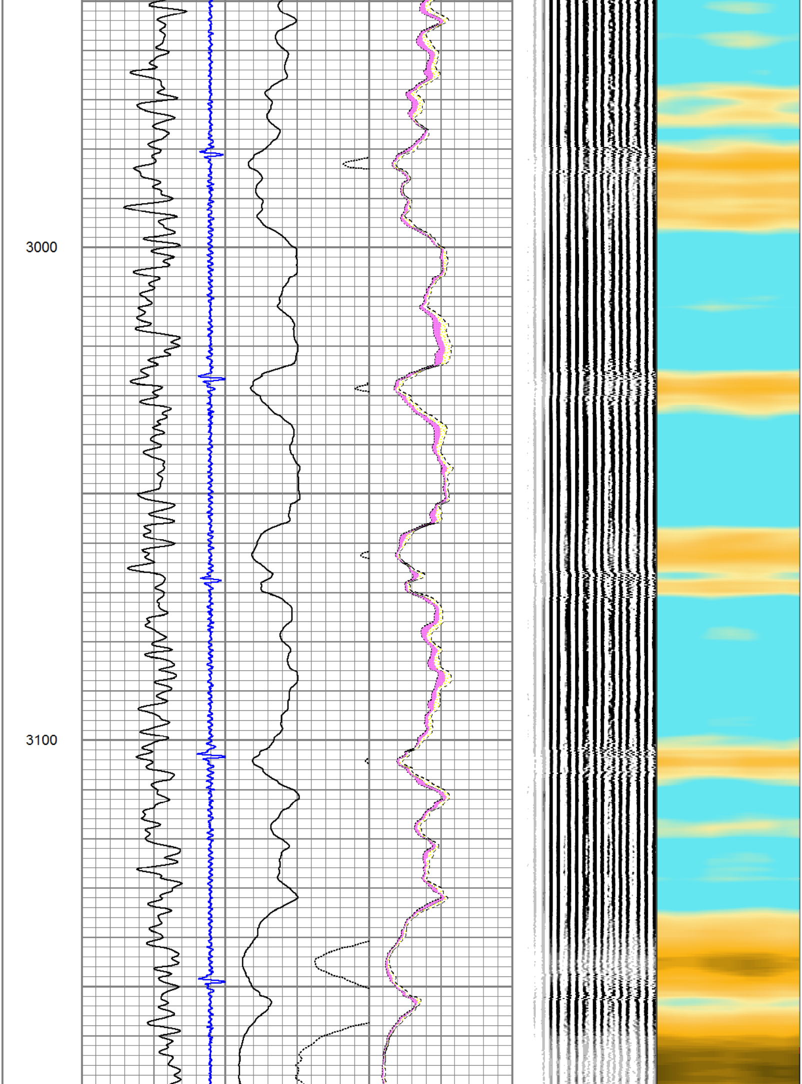


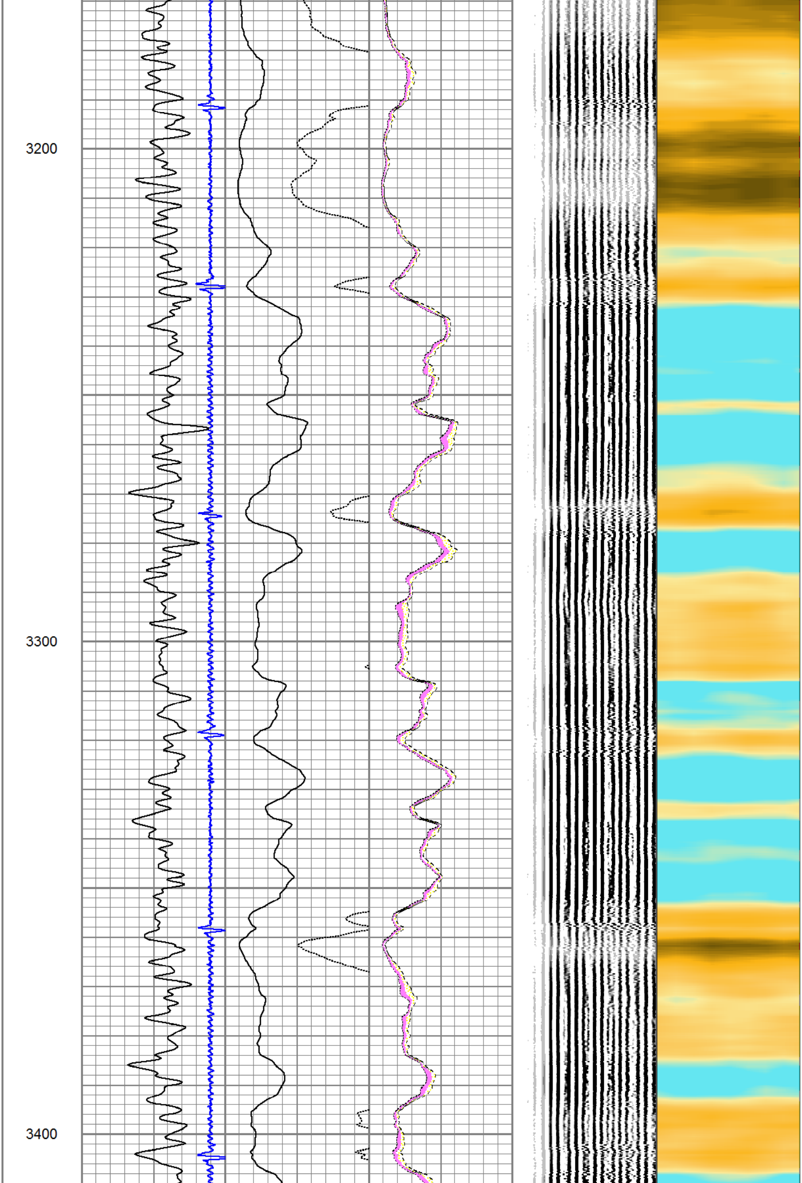


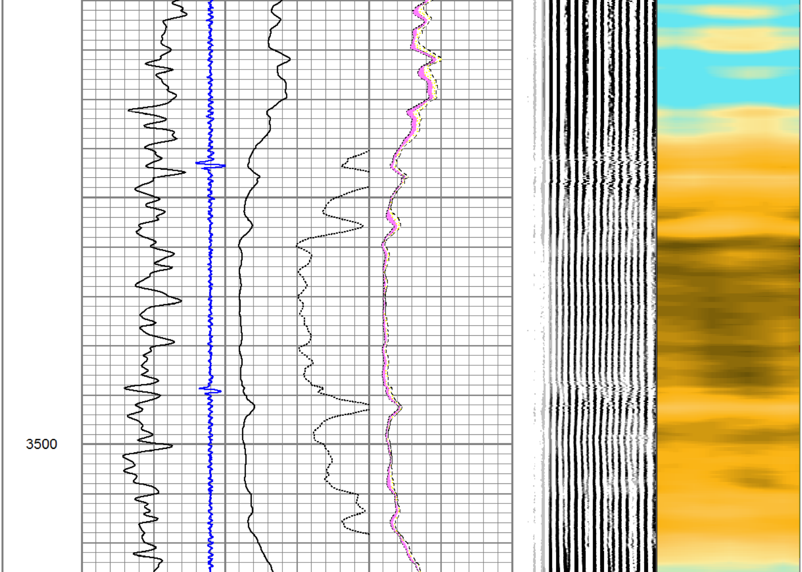












Calibration Report

Database File: 13688.db
Dataset Pathname: Final
Dataset Creation: Mon Sep 22 15:38:40 2014

Gamma Ray Calibration Report

Serial Number: 111205
Tool Model: probe 2.75
Performed: Wed Jun 11 10:38:21 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: 130584
Tool Model: RBT-C3

Calibration Casing Diameter: 7.000 in
Calibration Depth: -3.845 ft

Master Calibration, performed Mon Sep 22 15:36:06 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	0.827	0.000	62.200	74.972	0.229
CAL	0.012	1.007				
5'	-0.005	0.825	0.000	62.200	74.923	0.408
SUM						
S1	-0.005	0.843	0.000	100.000	117.938	0.547
S2	-0.002	0.887	0.000	100.000	112.408	0.243
S3	-0.002	0.926	0.000	100.000	107.722	0.254
S4	-0.002	0.948	0.000	100.000	105.259	0.262
S5	-0.003	0.902	0.000	100.000	110.539	0.312
S6	-0.003	0.867	0.000	100.000	114.937	0.319
S7	-0.004	0.816	0.000	100.000	122.011	0.482
S8	-0.003	0.812	0.000	100.000	122.776	0.322

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	0.012	1.007	1.000	0.000

Air Zero Calibration, performed Mon Sep 08 11:38:23 2014:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.016	0.000	-0.003
5'	0.018	0.000	-0.005
SUM			
S1	0.015	0.000	-0.005
S2	0.015	0.000	-0.002
S3	0.015	0.000	-0.003
S4	0.015	0.000	-0.003
S5	0.015	0.000	-0.003
S6	0.015	0.000	-0.003
S7	0.016	0.000	-0.004
S8	0.015	0.000	-0.003

Temperature Calibration Report

Serial Number: 130584
Tool Model: RBT-C3
Performed: Wed Aug 13 16:18:33 2014

	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF

Gain: 0.77
Offset: 15.00
Delta Spacing 1