PIONEER

Pioneer Energy Services

RADIAL
SECTOR BOND LOG
WITH GAMMA RAY

Company EnCana Oil & Gas (USA) Inc.
Well Minch 3E-4H L368
Field Wattenberg
County Weld
State Colorado CountryUSA

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Location: API # : 05-123-39411

SHL: 1667' FSL & 453' FWL NWSW

SEC 4 TWP 3N RGE 68W

Other Services
None

Permanent Datum	GL	Elevation	5077
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 5107
D.F. 5106
G.L. 5077

Date	January 1, 2015		
Run Number	1		
Depth Driller	11752		
Depth Logger	7363		
Bottom Logged Interval	7363		
Top Log Interval	0		
Open Hole Size	8-3/4"		
Type Fluid	WBM		
Density / Viscosity	10.7 / 46		
Max. Recorded Temp.	NA		
Estimated Cement Top	412		
Time Well Ready	1145		
Time Logger on Bottom	1315		
Equipment Number	48		
Location	Ft. Morgan, CO		
Recorded By	Clint Christensen		
Witnessed By	Buddy Burke		

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	7414'
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

Logged Under 0 PSI

Depth Correlated to 7" Tally

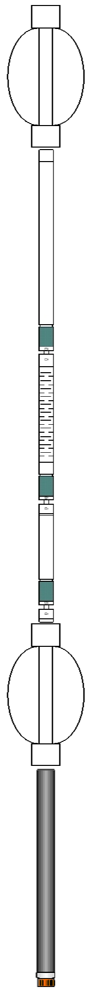
Patterson Rig #326

Thank You for using Pioneer Energy Services

SO# 2-013835

Sensor	Offset (ft)
IntTemp	14.66
TEMP	13.64
WVF3FT	11.41
WVFCAL	11.41
WVFS1	11.41
WVFS2	11.41
WVFS3	11.41
WVFS4	11.41
WVFS5	11.41
WVFS6	11.41
WVFS7	11.41
WVFS8	11.41
WVF5FT	10.41
CCL	3.92
GR	1.13

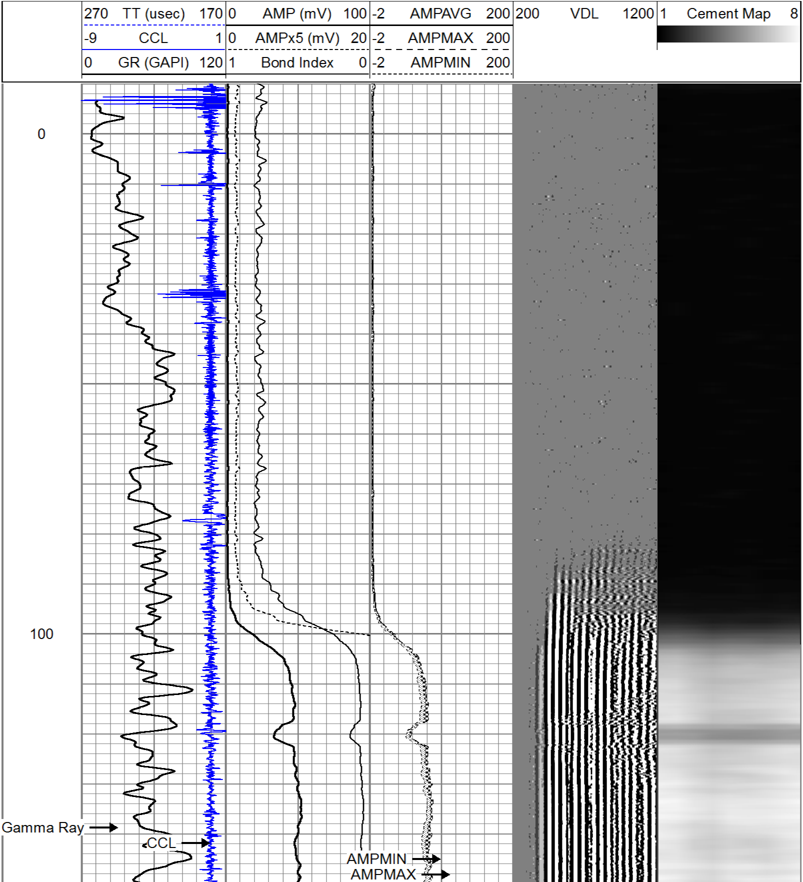
Schematic

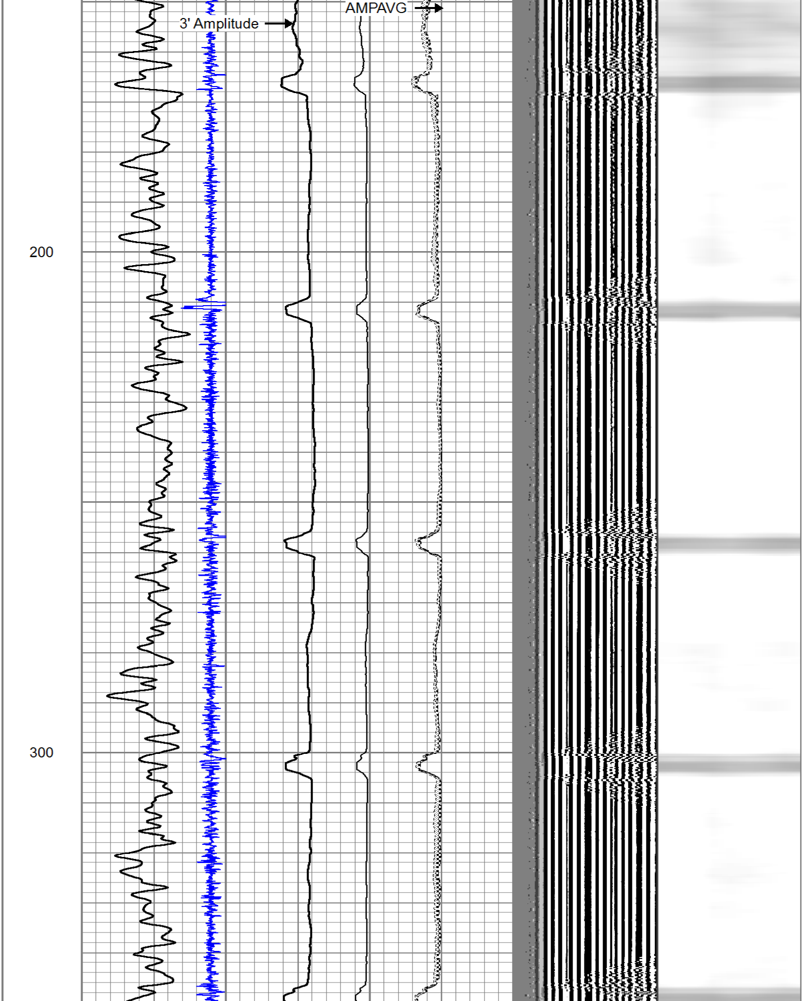


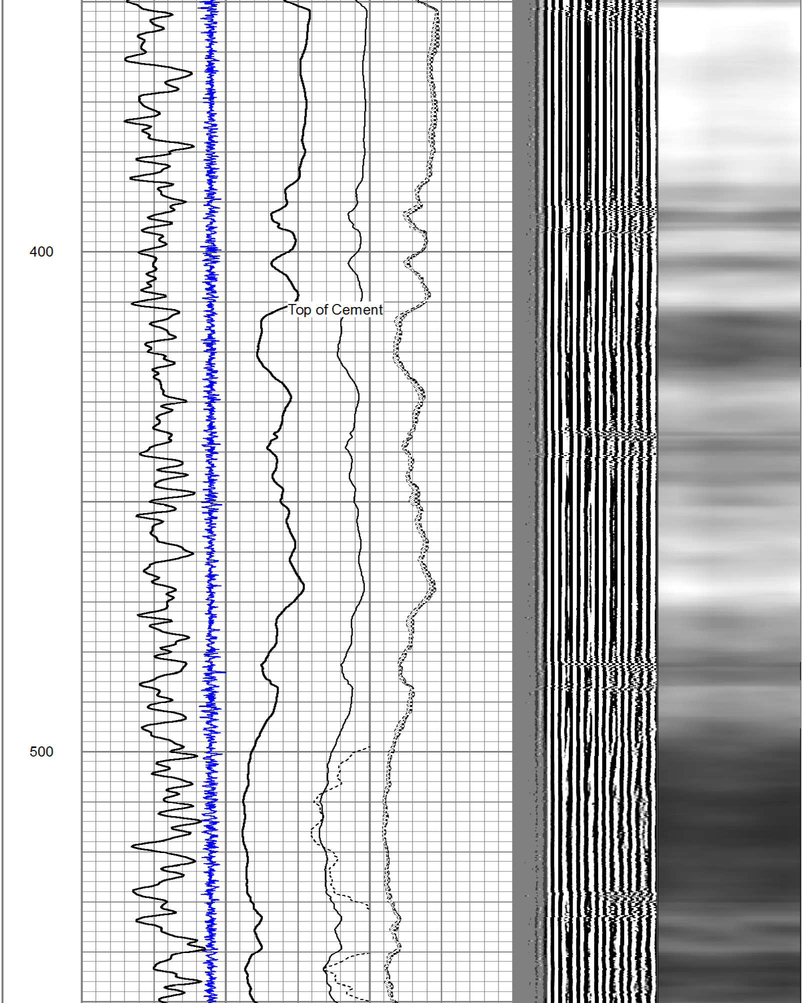
Description	Len (ft)	OD (in)	Wt (lb)
CENT #2 -A (1)	2.83	2.75	20.00
RBT-RBT-C3 (11206) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
CENT-A (1)	2.83	2.75	20.00
GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00

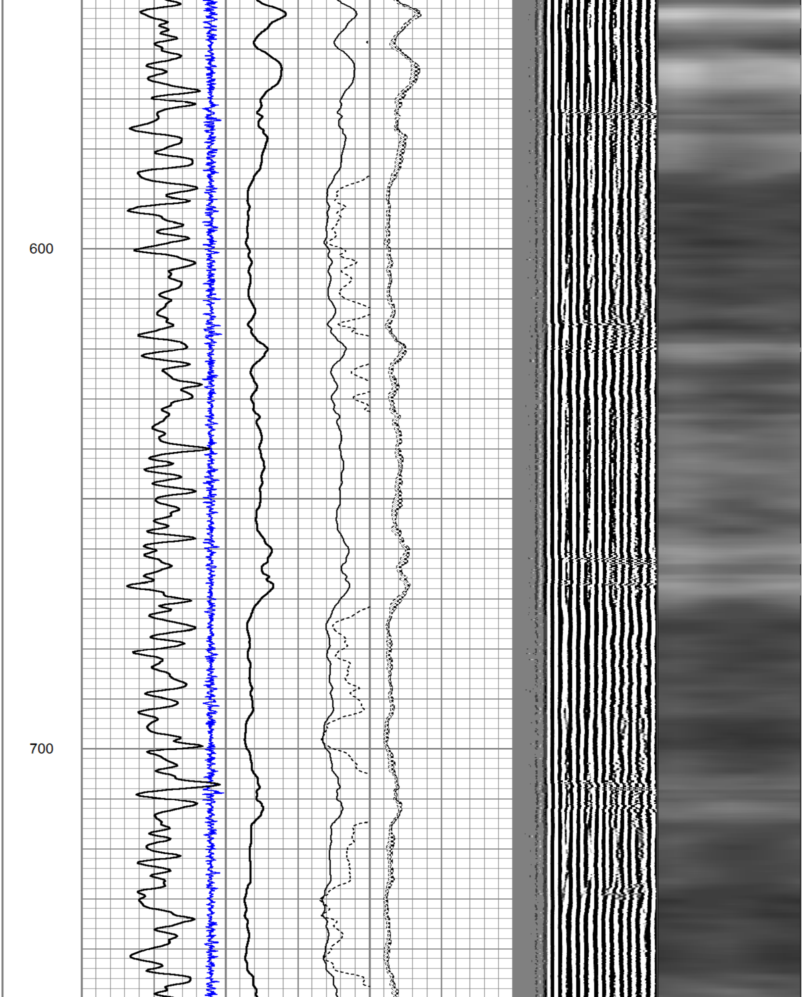
Dataset: 13835.db: field/well/run1/Final
Total Length: 19.32 ft
Total Weight: 230.00 lb
O.D. 2.75 in

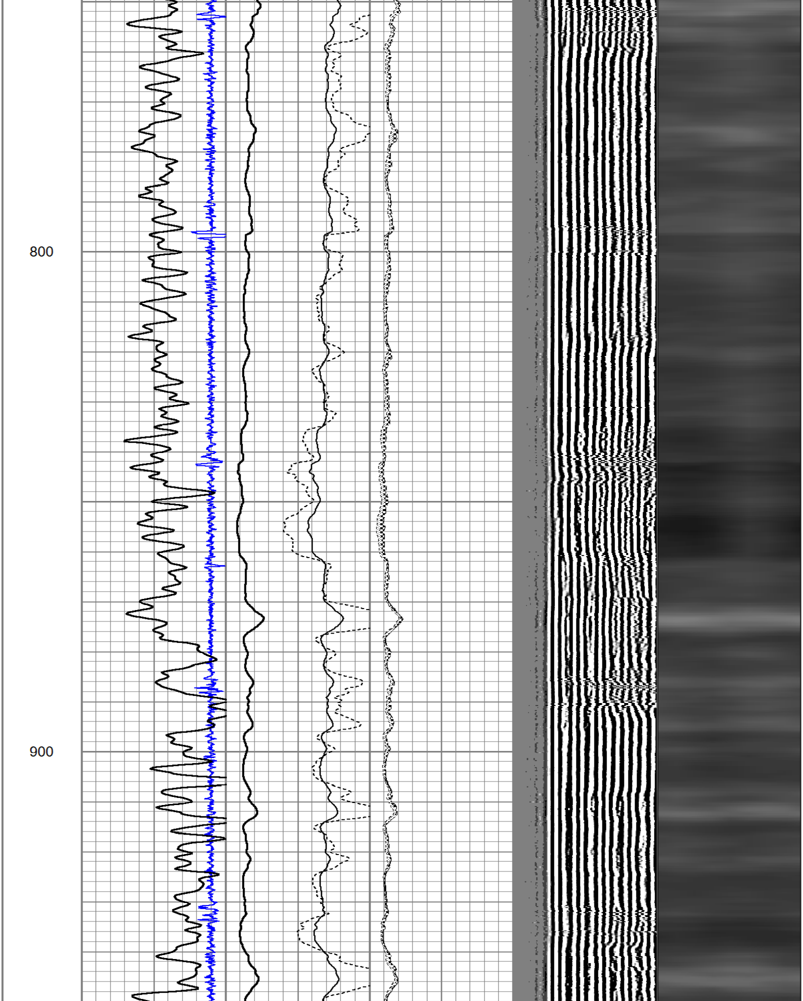
Database File: 13835.db
Dataset Pathname: Final
Presentation Format: scbl02
Dataset Creation: Thu Jan 01 15:12:16 2015
Charted by: Depth in Feet scaled 1:240

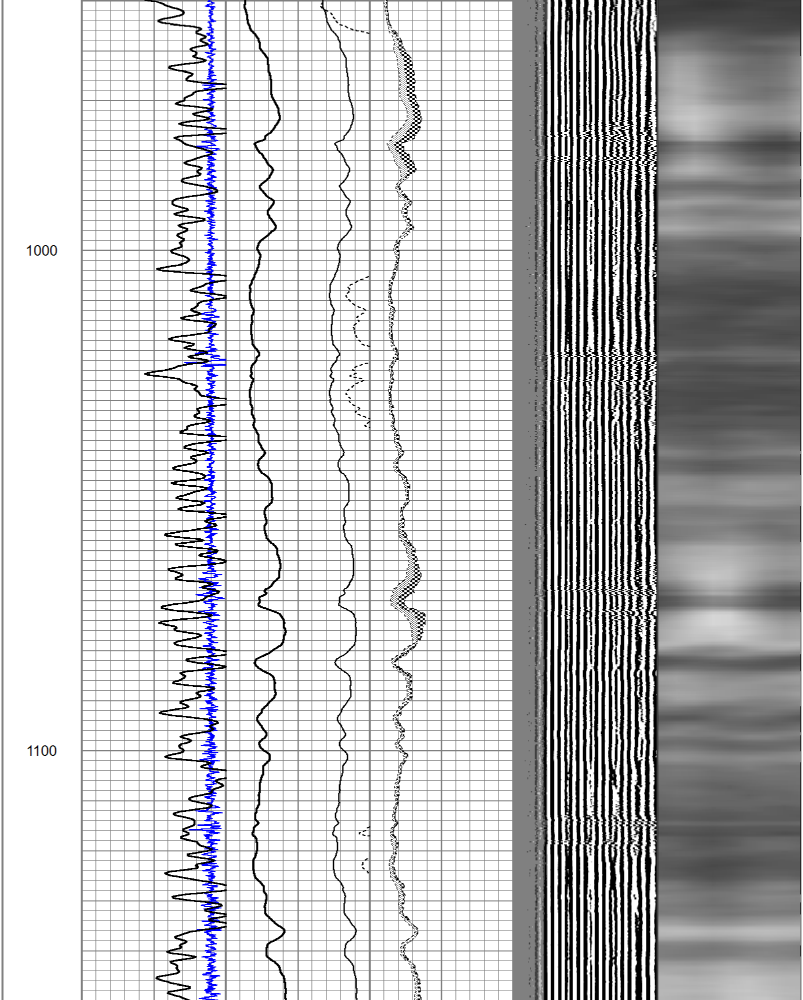


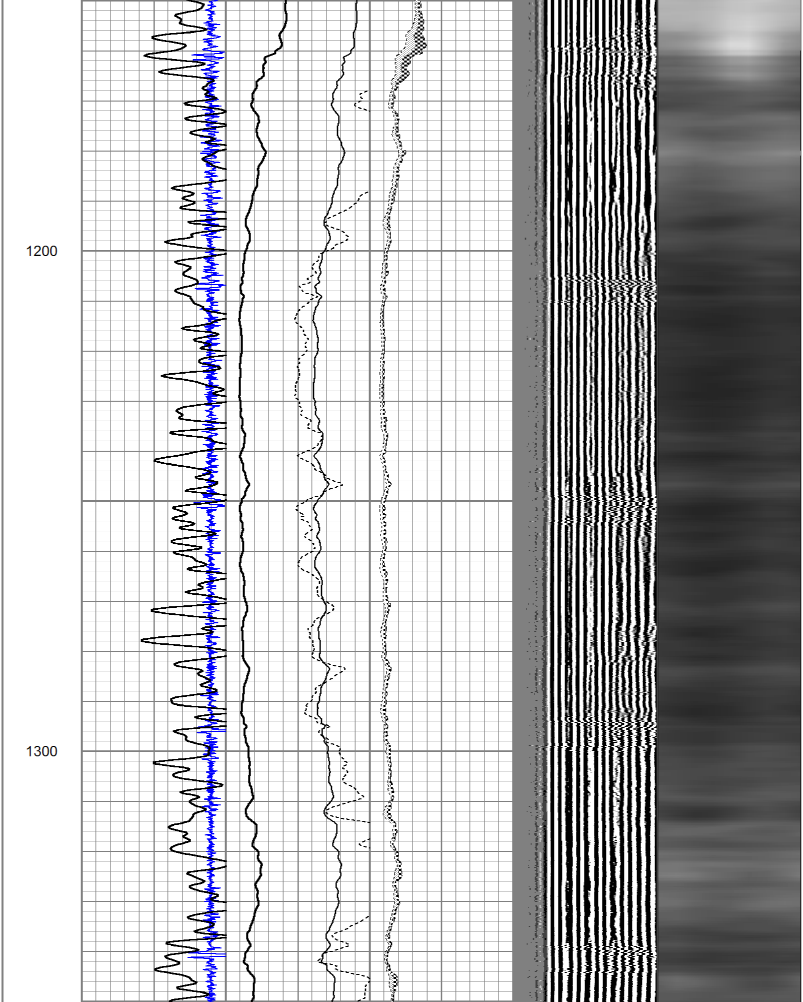


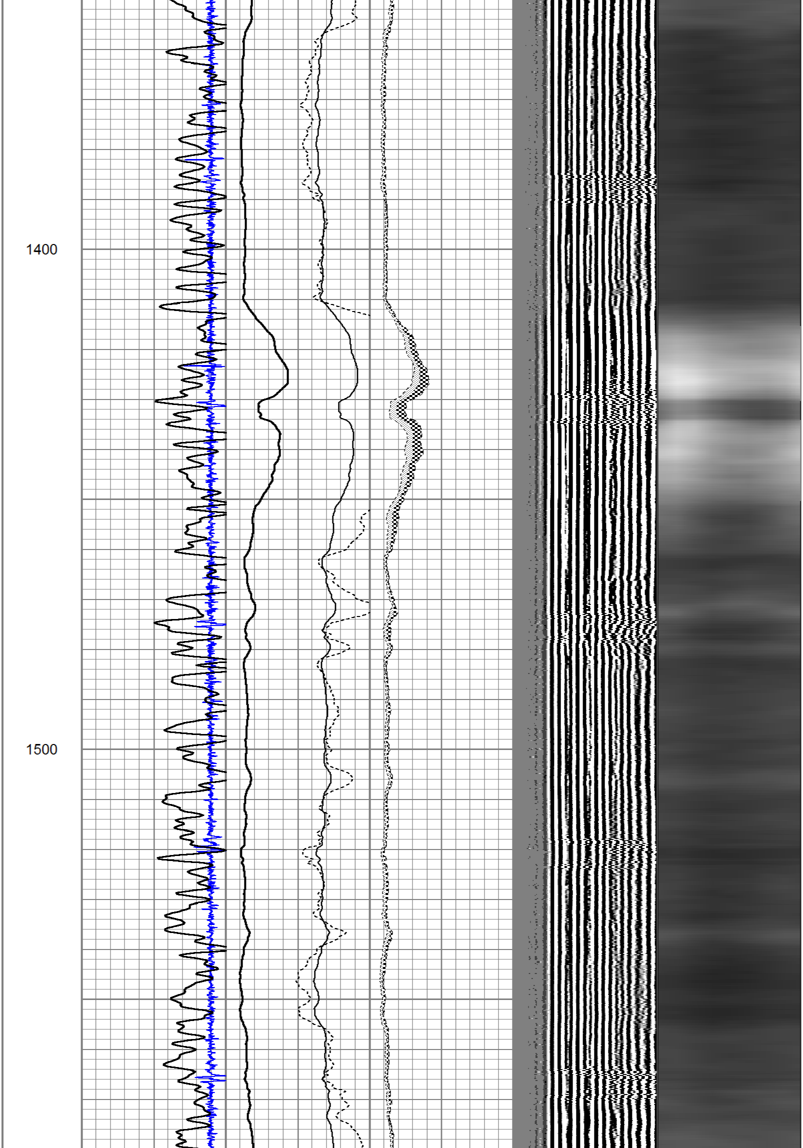


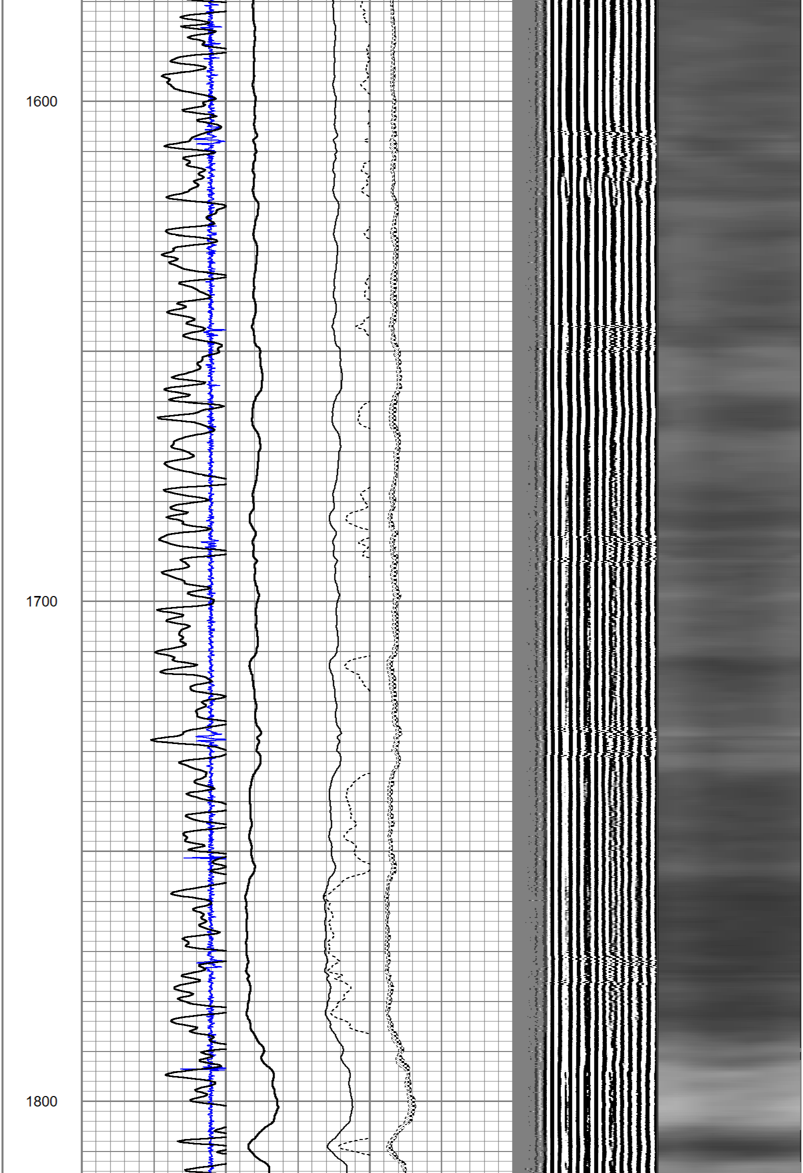


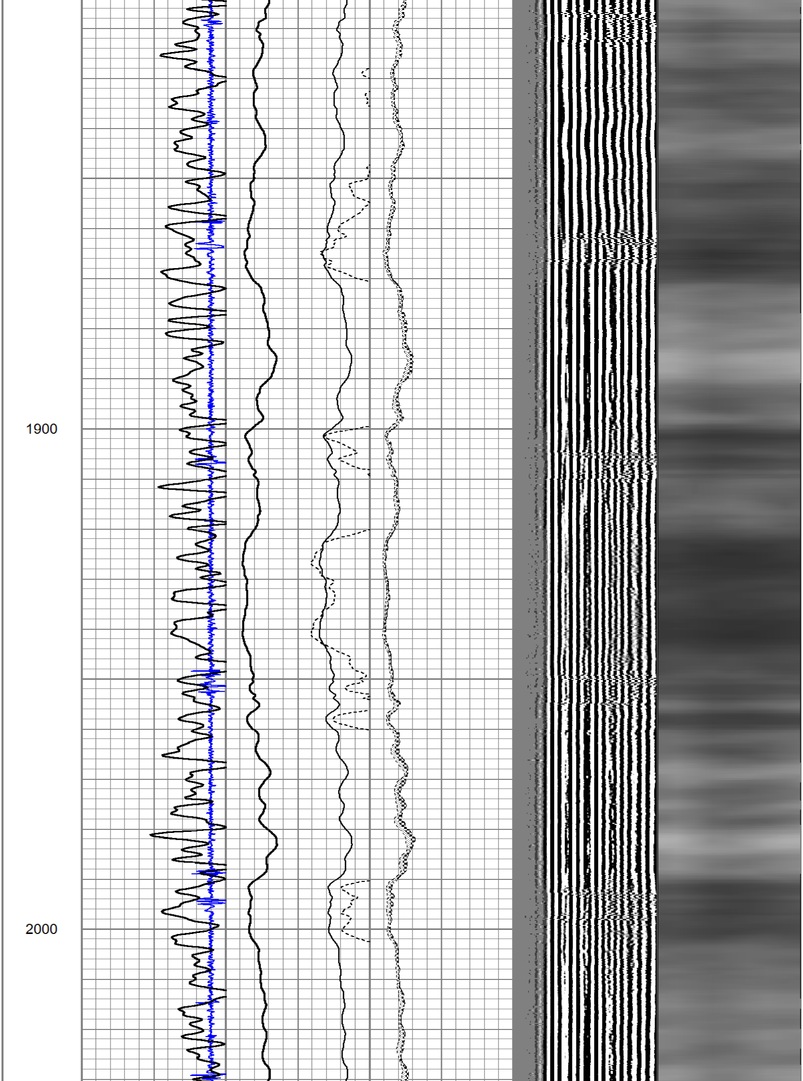


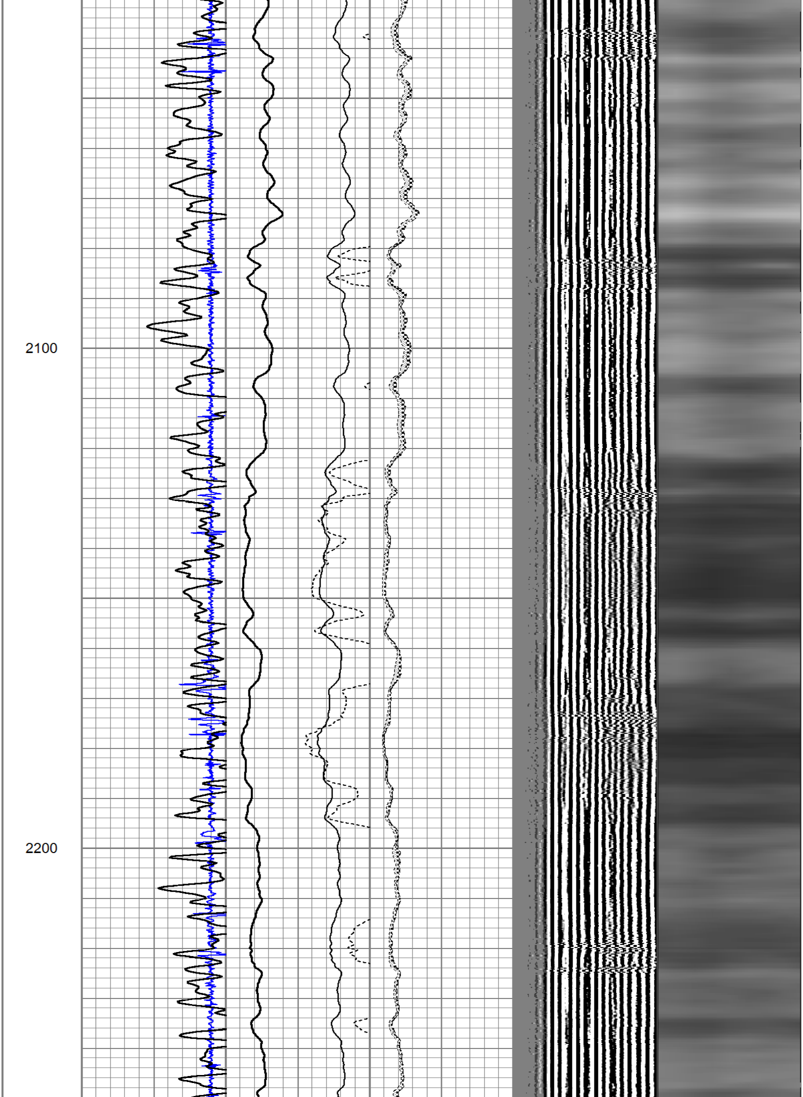


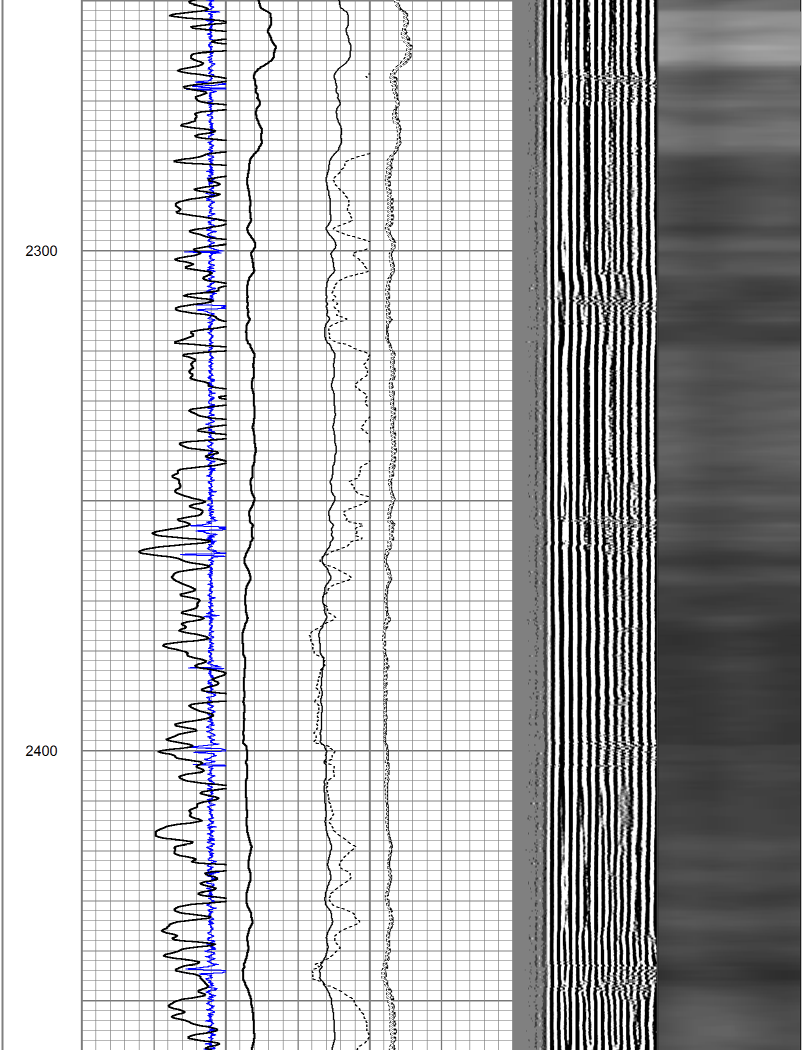


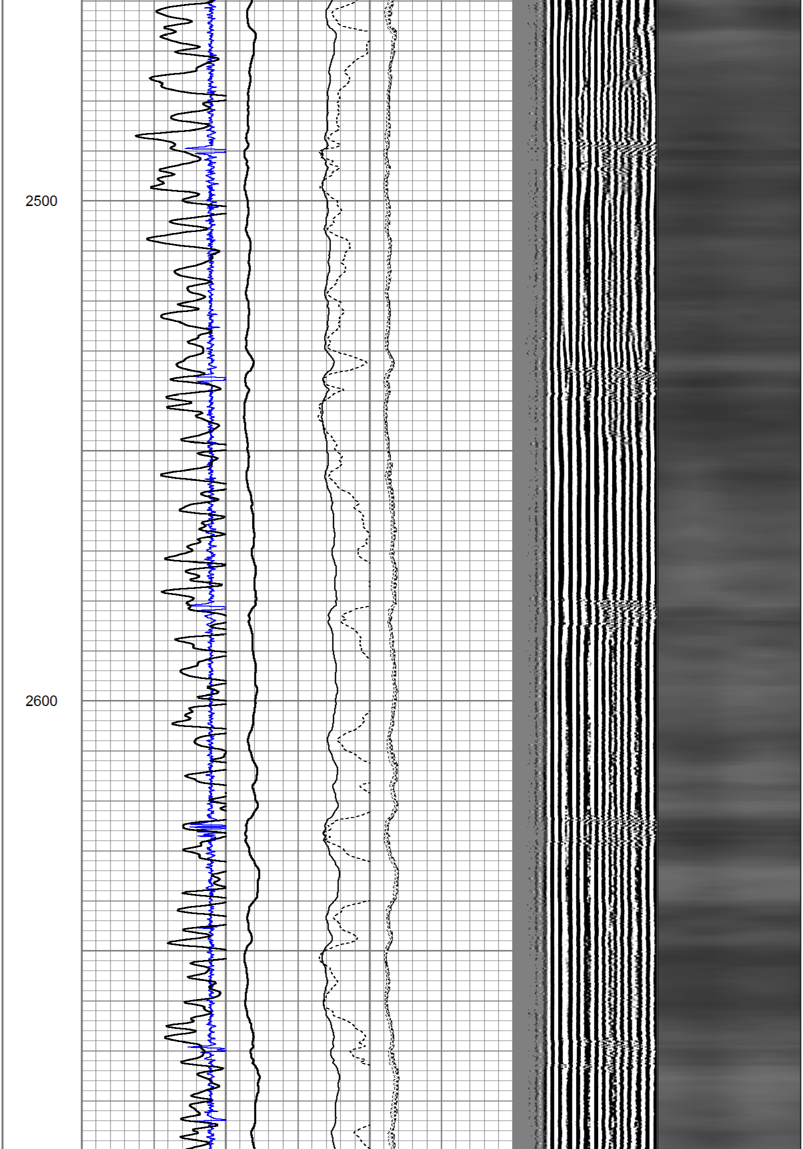


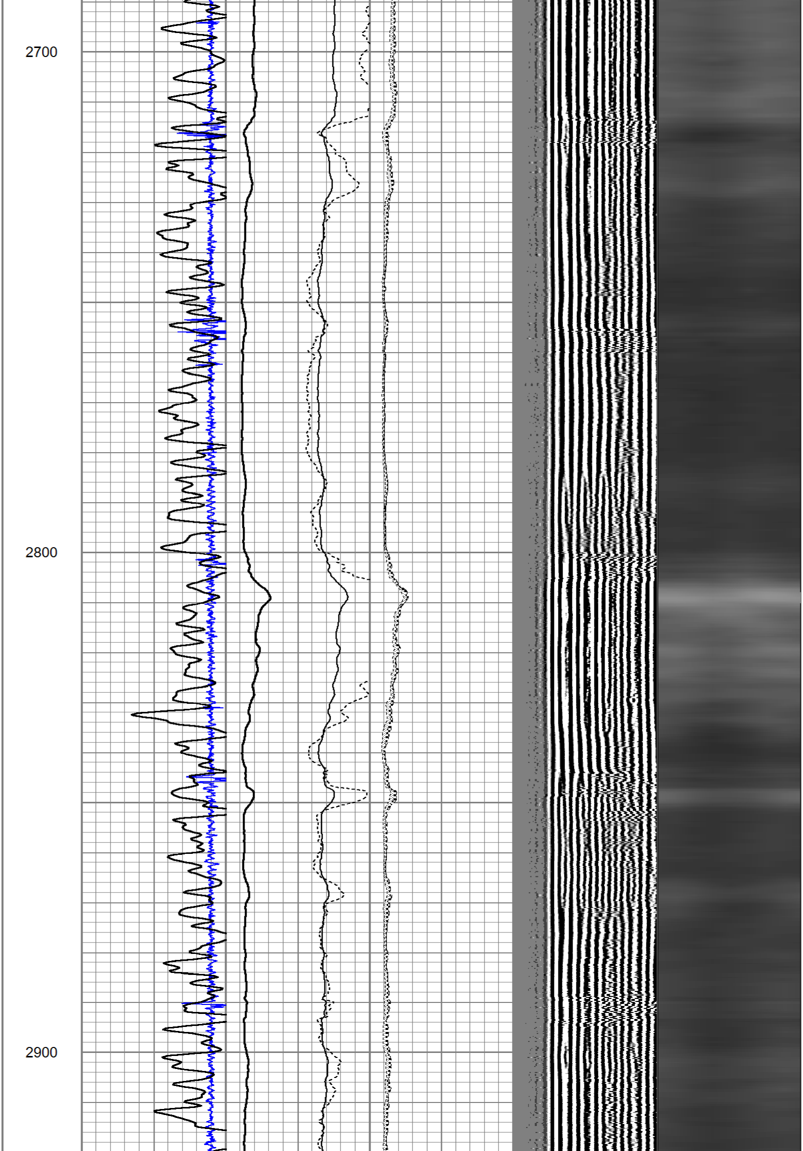


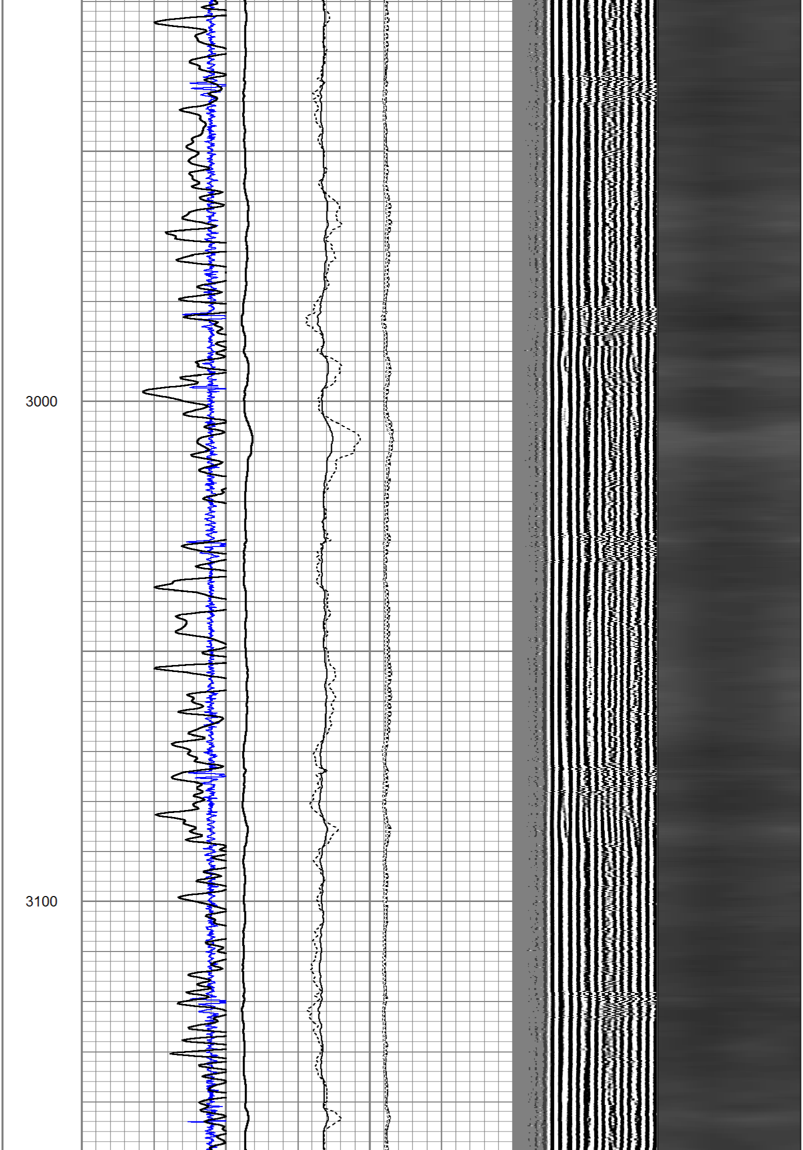


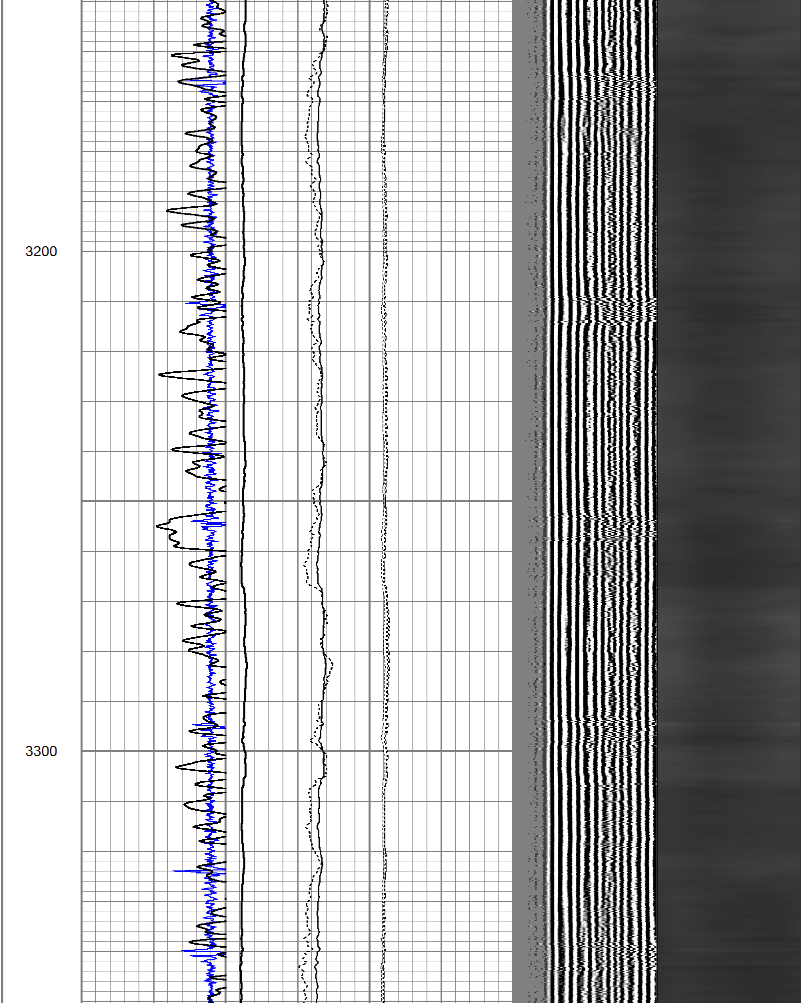


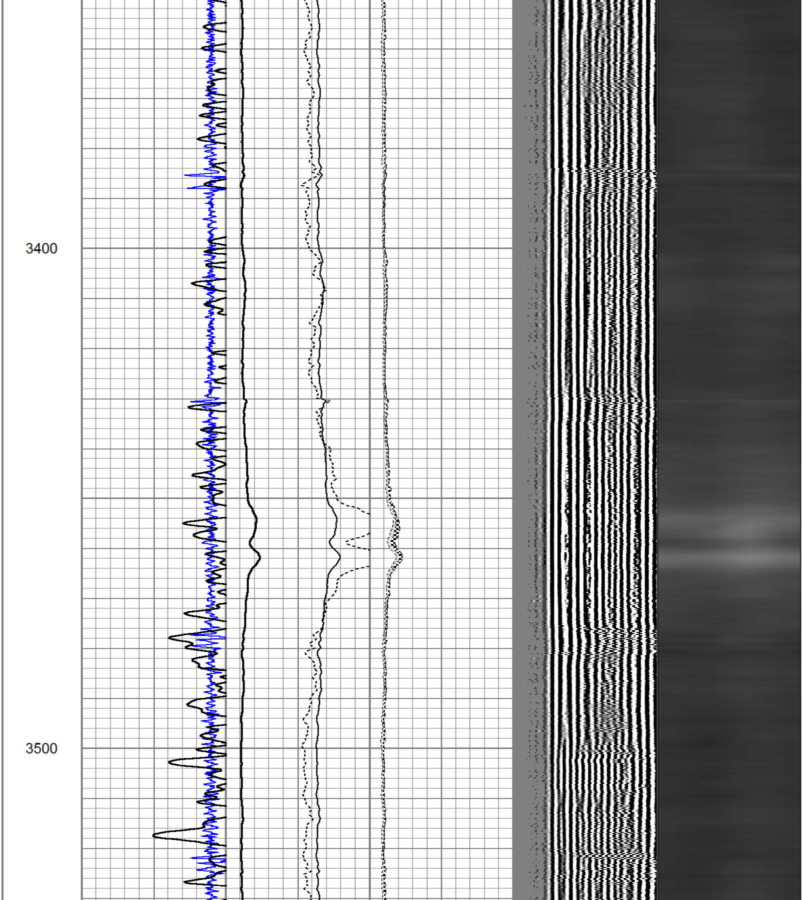












Calibration Report

Database File: 13835.db
Dataset Pathname: Final
Dataset Creation: Thu Jan 01 15:12:16 2015

Gamma Ray Calibration Report

Serial Number: 111205
Tool Model: probe 2.75
Performed: Mon Jun 09 17:25:42 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.9500 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 11206
Tool Model: RBT-C3

Calibration Casing Diameter: 7.000 in
Calibration Depth: 251.500 ft

Master Calibration, performed Thu Jan 01 14:38:52 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.056	0.000	62.165	58.857	-0.000
CAL	0.021	1.012				
5'	0.000	1.027	0.000	62.165	60.529	-0.001
SUM						
S1	0.000	1.129	0.000	100.000	88.551	-0.000
S2	0.000	1.141	0.000	100.000	87.664	-0.000
S3	0.000	1.110	0.000	100.000	90.057	-0.000
S4	0.000	1.066	0.000	100.000	93.788	-0.001
S5	0.000	1.013	0.000	100.000	98.753	-0.001
S6	0.000	0.992	0.000	100.000	100.758	-0.001
S7	0.000	1.026	0.000	100.000	97.427	-0.001

S7	0.000	1.026	0.000	100.000	97.427	-0.001
S8	0.000	1.092	0.000	100.000	91.601	-0.000

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	0.021	1.012	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

Temperature Calibration Report

Serial Number:	11206
Tool Model:	RBT-C3
Performed:	Wed Jun 11 03:38:10 2014

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

Gain:	0.30
Offset:	12.00
Delta Spacing	1