RELIANCE
OILFIELD SERVICES

Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	SRC Energy Inc
Well	Goetzel 34N-30C-M
Field	Wattenberg
County	Weld
State	Colorado

Company SRC Energy Inc

Well Goetzel 34N-30C-M

Field Wattenberg

County Weld **State** Colorado

Location: API # : 05-123-44190

SEC 29 TWP 6N RGE 66W

Other Services
Guage Ring
RBP

Permanent Datum	Ground Level	Elevation	4735'
Log Measured From	Ground Level	0 FT	
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 4755'
D.F. 4754'
G.L. 4735'

Date	21-JAN-2018		
Run Number	Three		
Depth Driller	15595 FT		
Depth Logger	6760 FT		
Bottom Logged Interval	6756 FT		
Top Log Interval	Surface		
Open Hole Size	---		
Type Fluid	Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	218°F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	7:23 AM		
Equipment Number	HD-343		
Location	Fort Lupton, CO		
Recorded By	J. Fresquez		
Witnessed By	N. Brehmer		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	36	---	Surface	1788 FT
Intermediate #1	5 1/2	20	P-110	Surface	15579 FT
Intermediate #2					
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

Log ran as per customer request
Depth referenced to Casing Tally reported Marker Joint at 6533 FT
Adjusted -7 FT to correlate with Marker Joint
Gauge Ring / Junk Basket ran to 6912 FT
RBP Set @ 6810 FT
Log ran from just above RBP to Surface
Log ran with 2500 PSI Surface Induced Pressure
Logging tools were clean and free of debris upon completion of operations

Thank you for choosing Reliance Oilfield Services, LLC!!

RELIANCE
OILFIELD SERVICES

Main Pass

Recorded With 2500 PSI Surface Induced Pressure

Database File	src energy_goetzel 34n-30c-m_rbl_01-21-18\processed_src energy_goetzel 34n-30c-m_rbl_01-21-18.db
Dataset Pathname	well1/run1/main6.2
Presentation Format	ros_radii
Dataset Creation	Mon Jan 22 14:04:28 2018
Charted by	Depth in Feet scaled 1:240

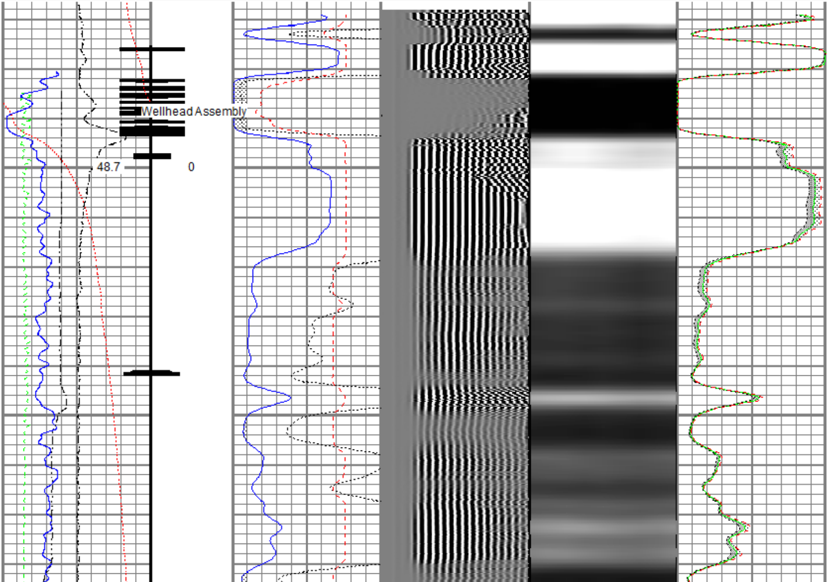
Gamma Ray
0 (GAPI) 120
Casing Collar Locator
0 Temperature (degF) 20
Line Speed
-150 (ft/min) 150
0 Line Tension (lb) 2000
Differential Temperature
-2 (degF) 2

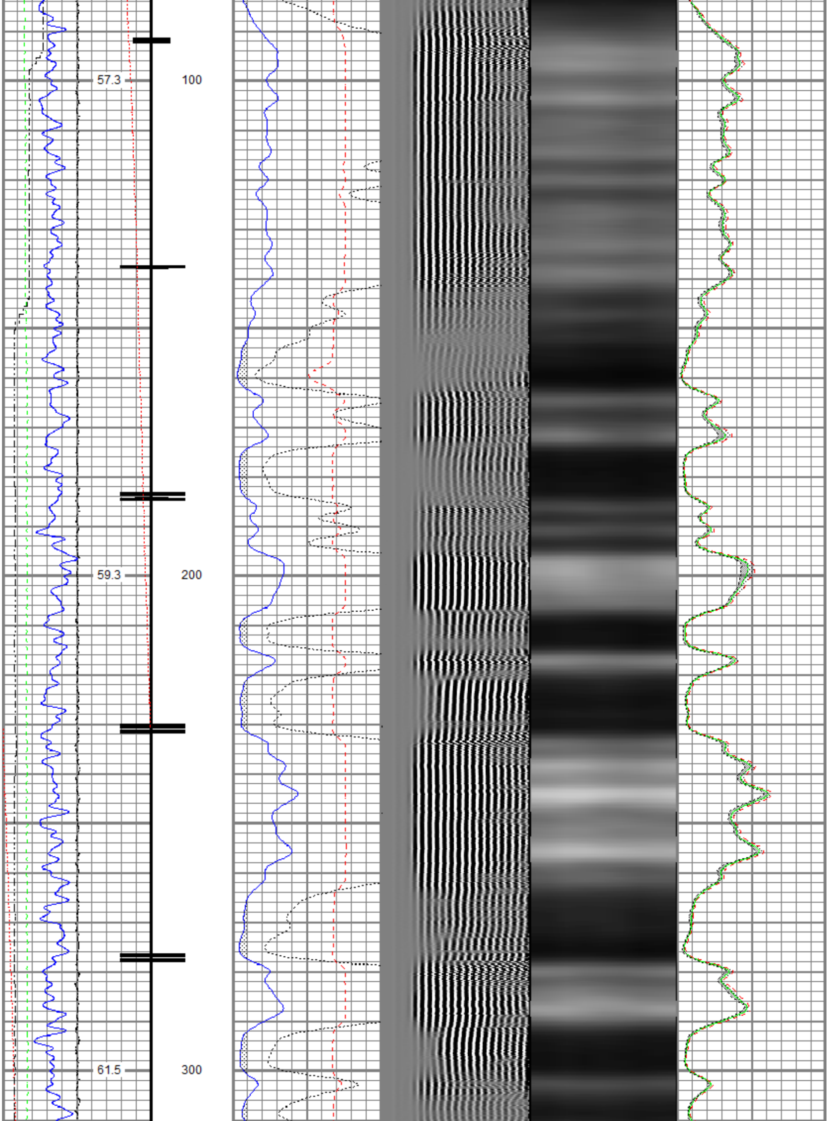
0 3' Amplitude (mV) 100
3' Amplitude x 5
0 (mV) 20
3' Travel Time
650 (usec) 150

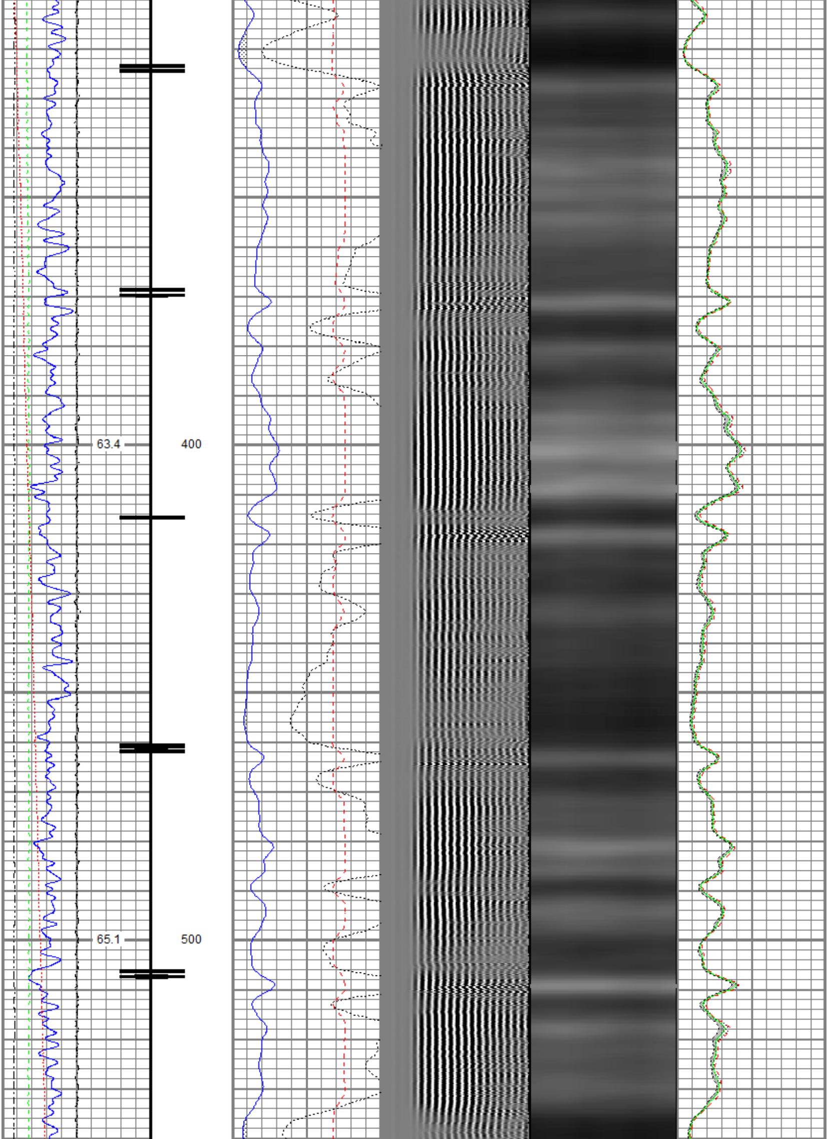
5' Variable Density Log
200 1200

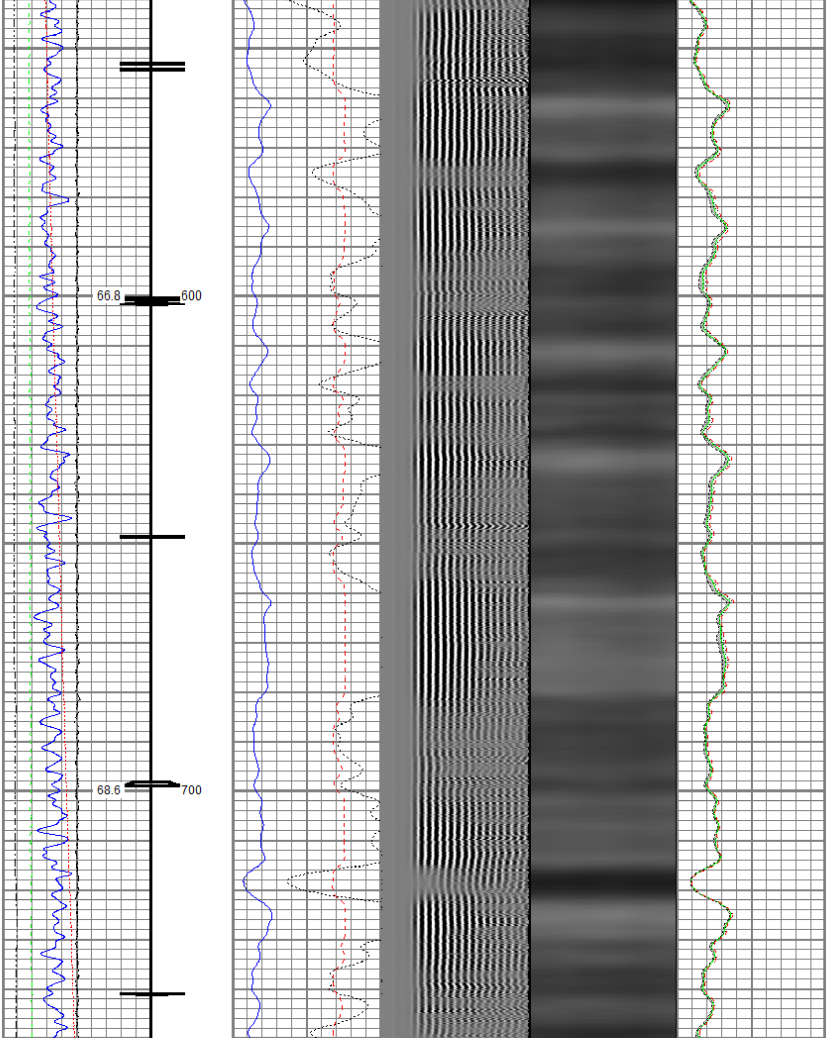
Sector Map

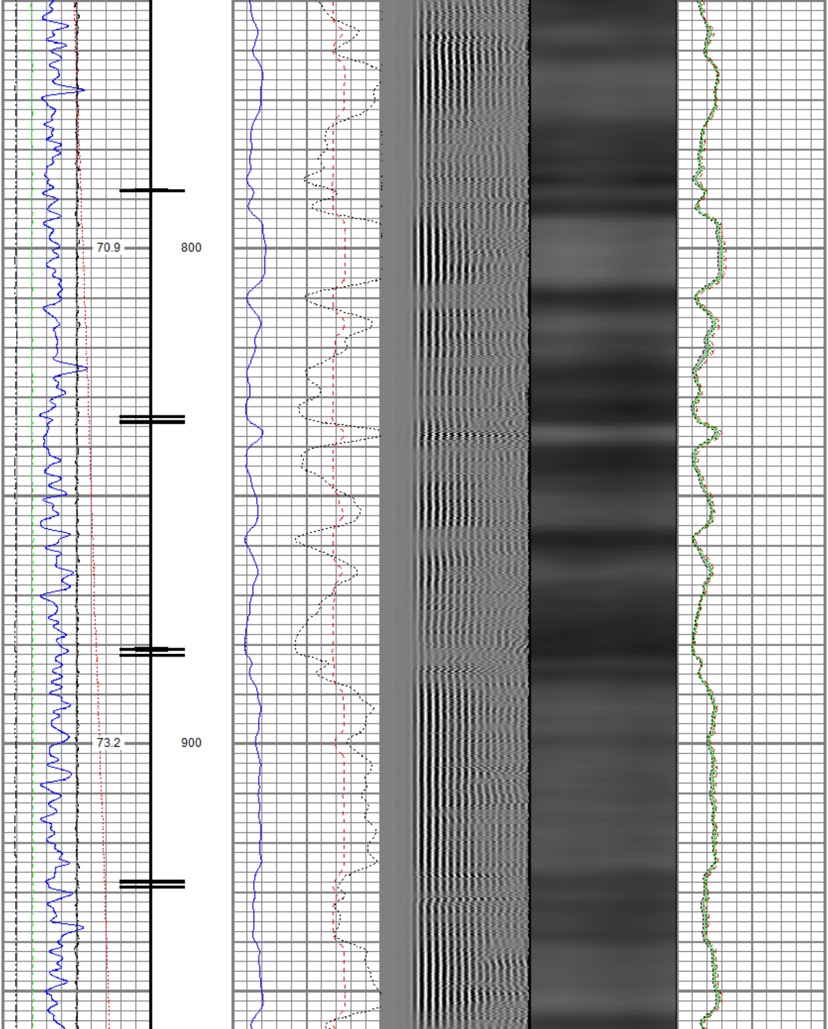
0 Average Amplitude 100
Mimimum Amplitude
0 100
Maximum Amplitude
0 100

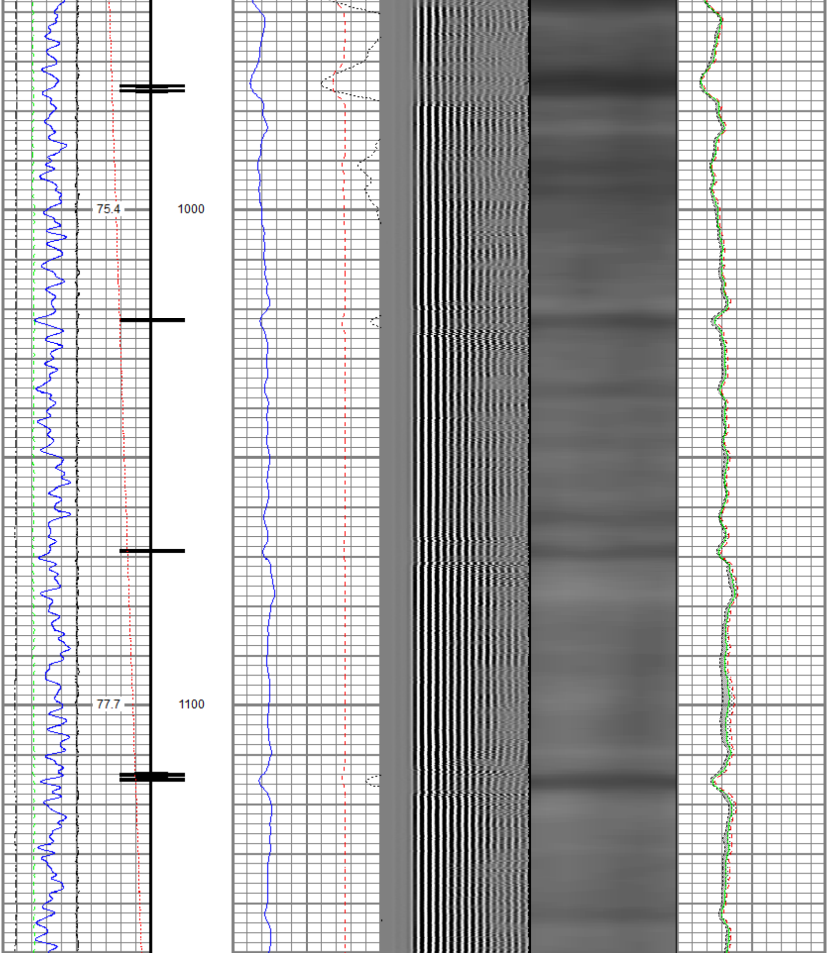


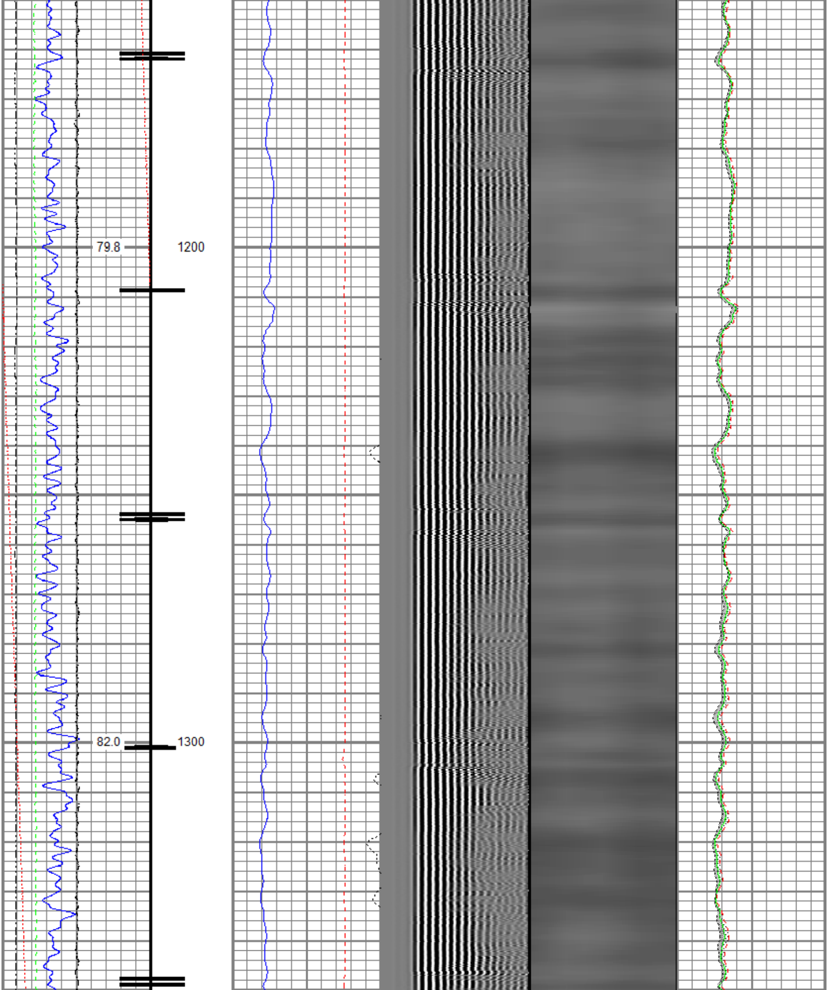


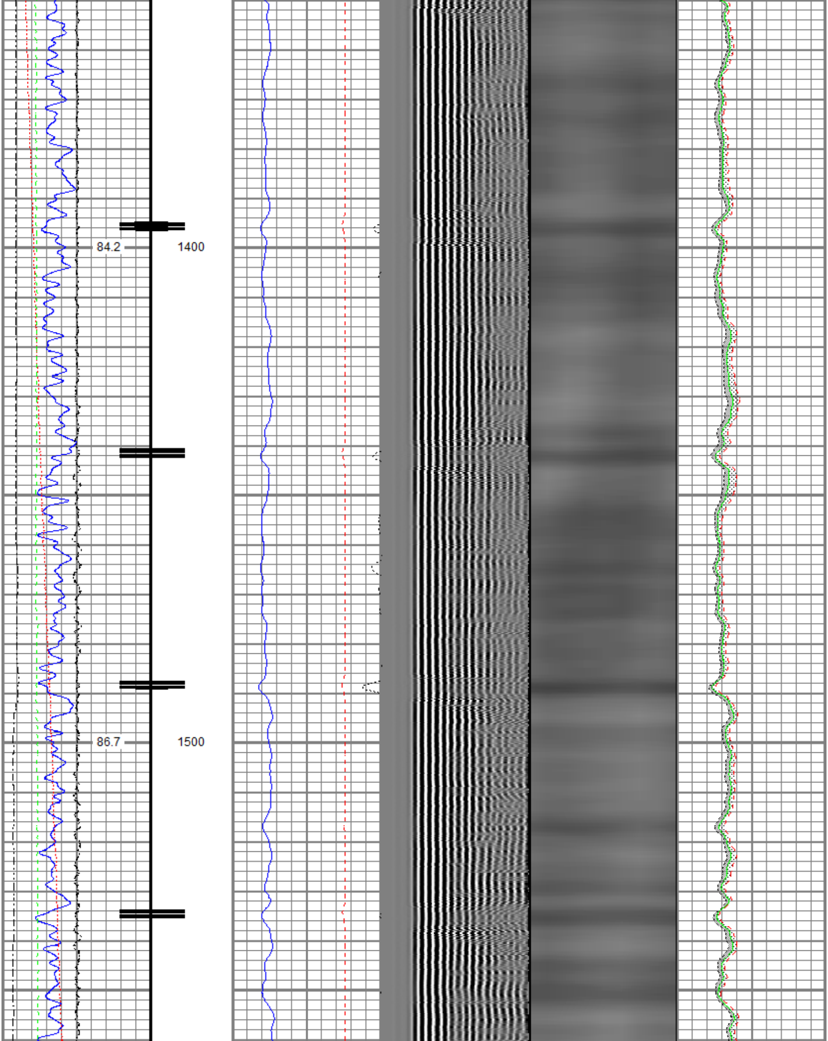


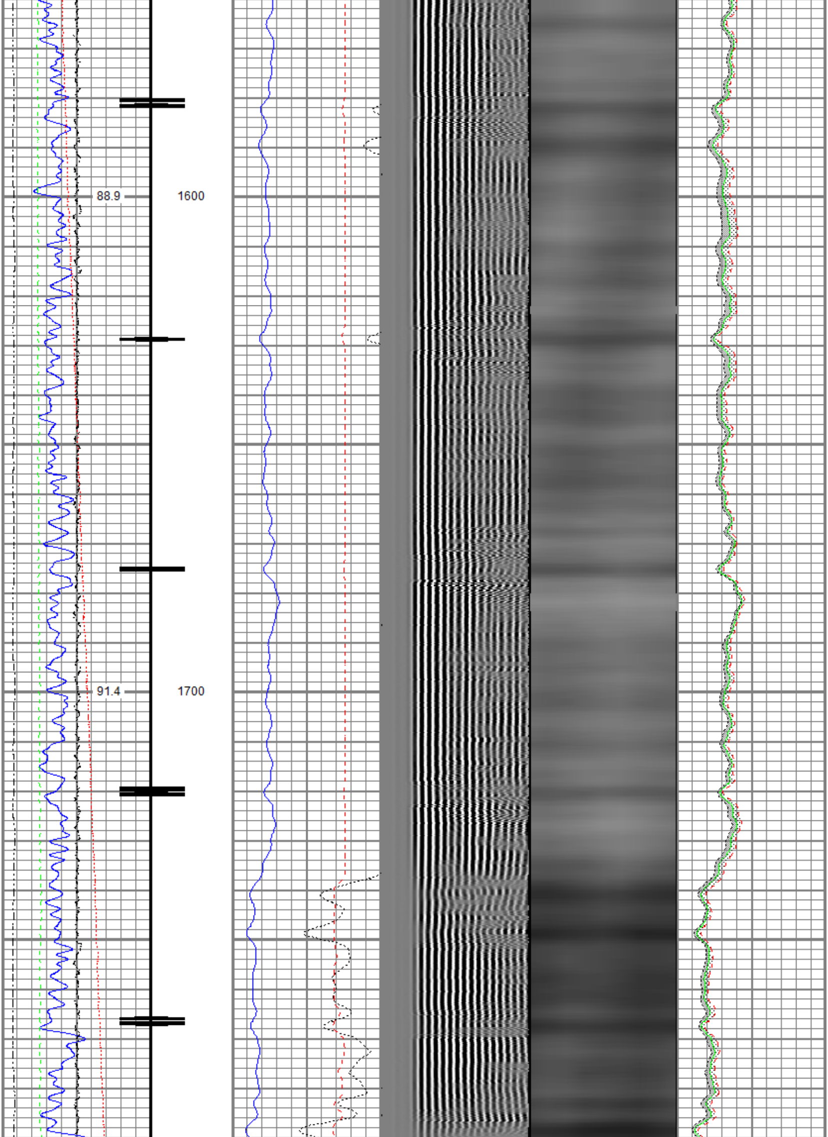


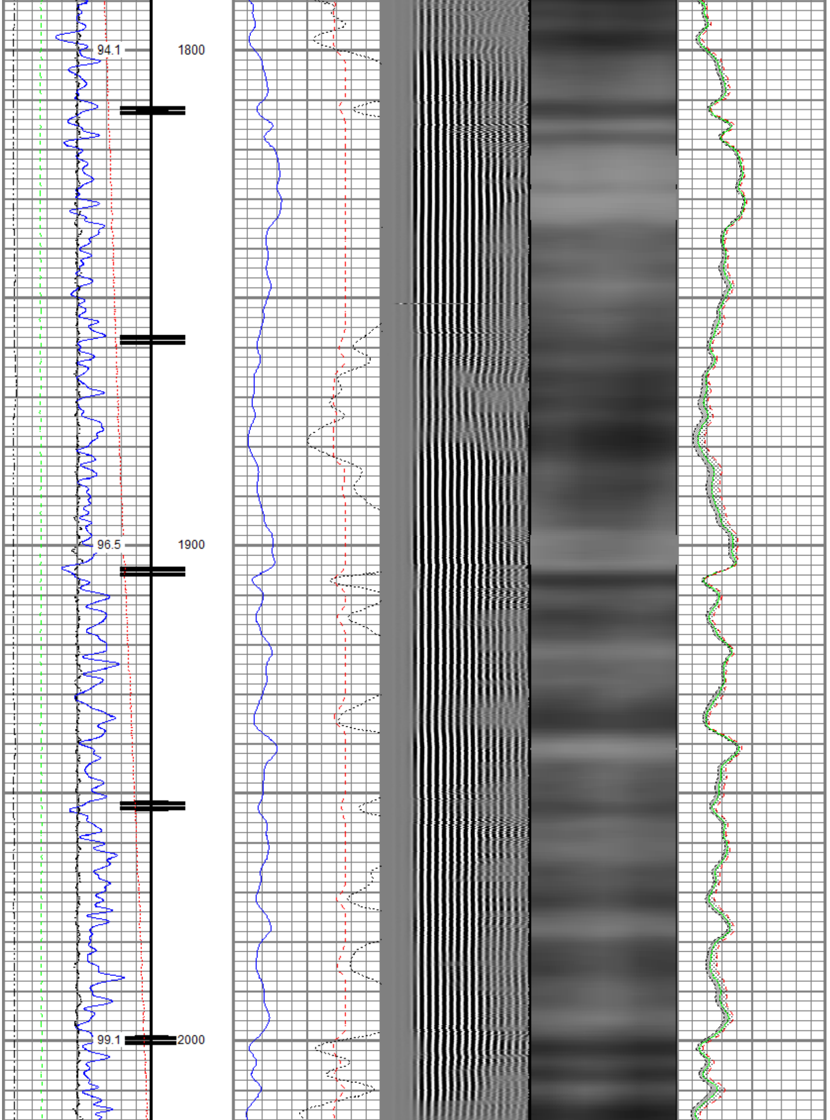


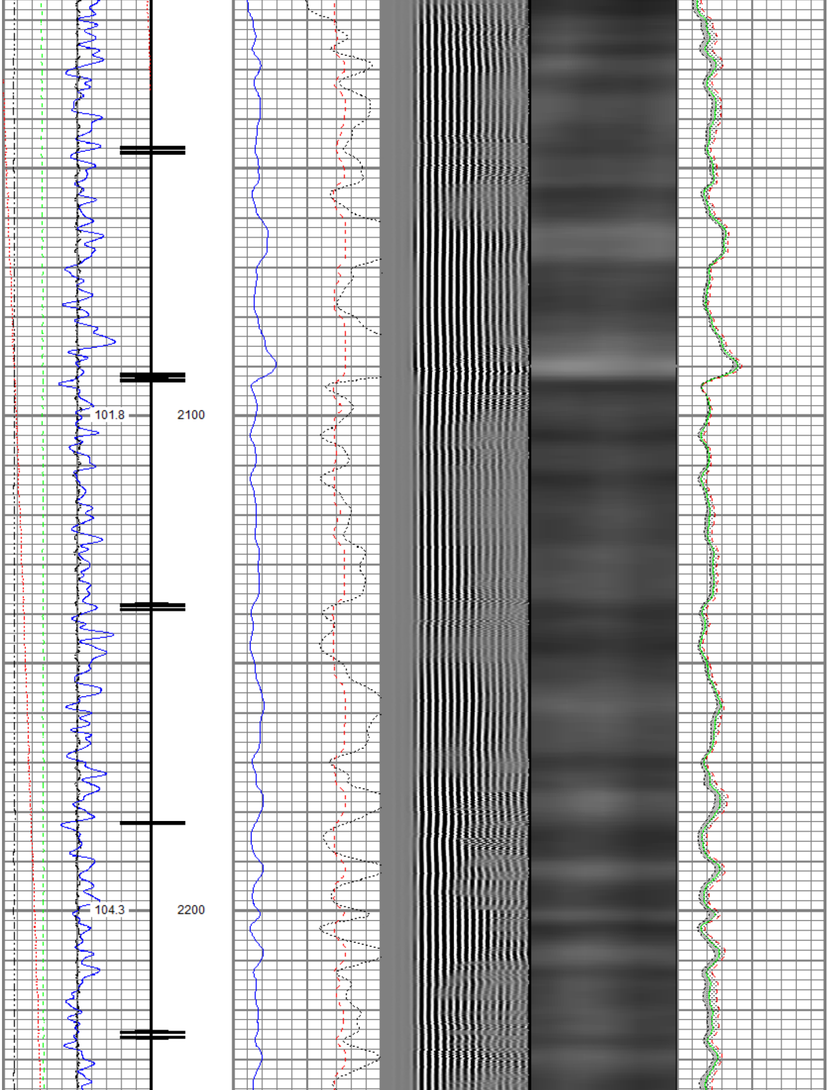


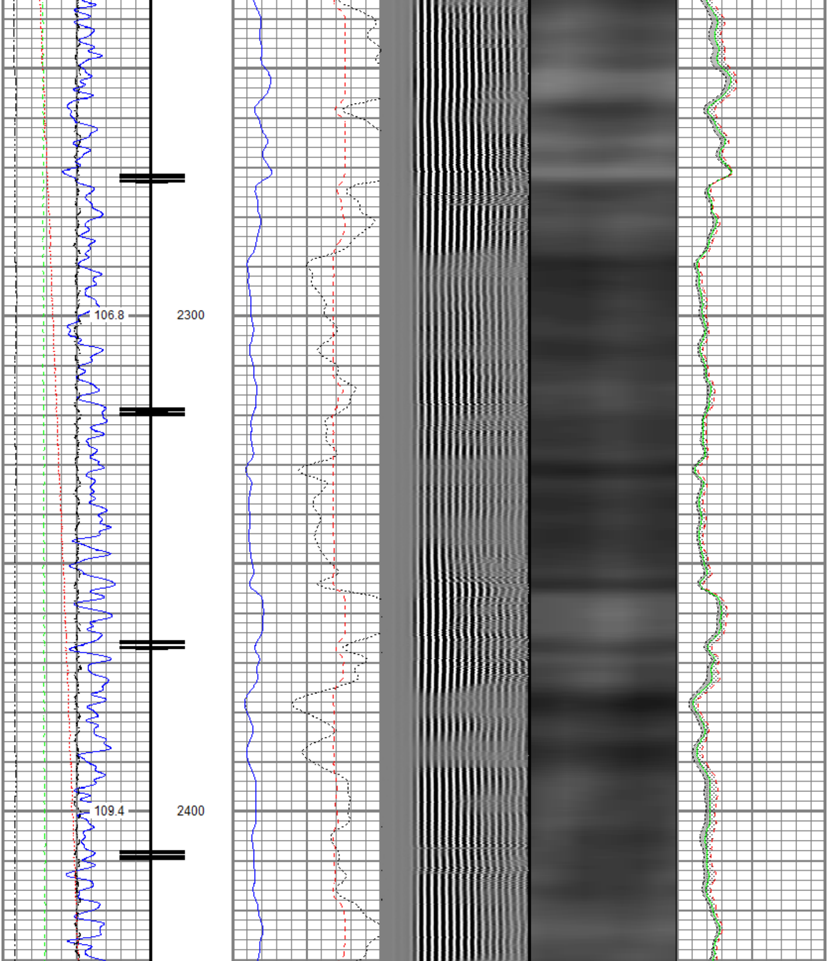


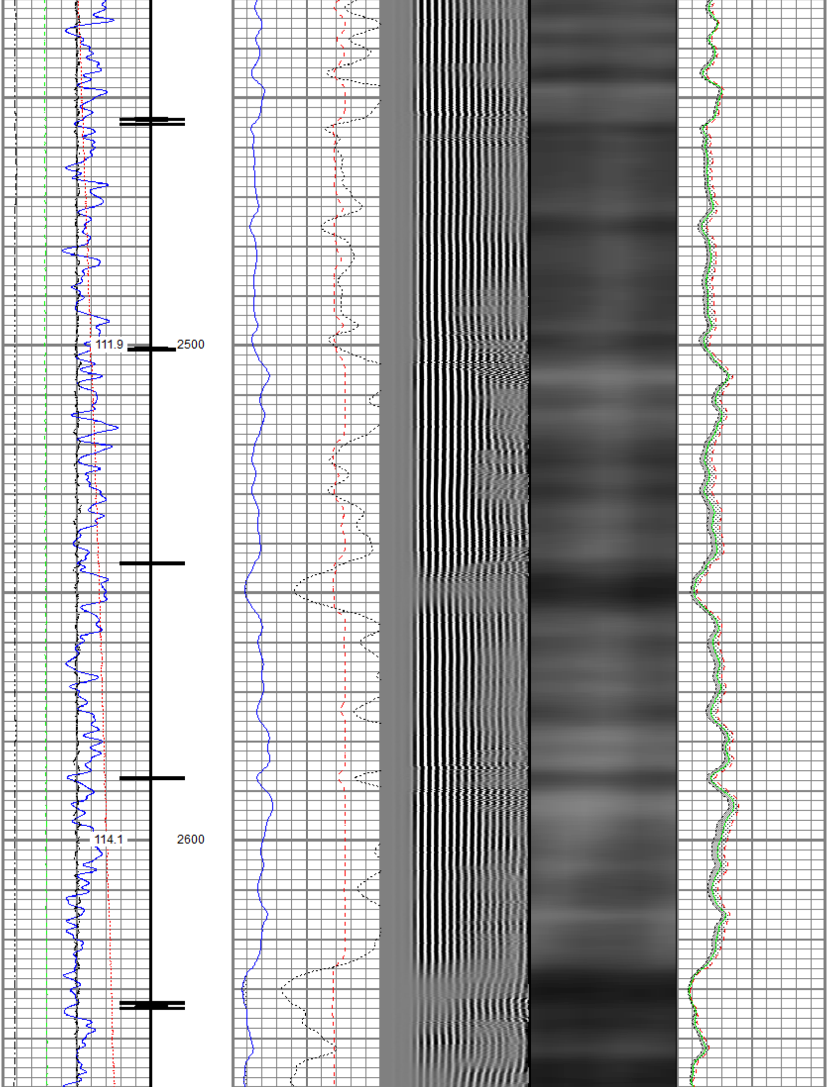


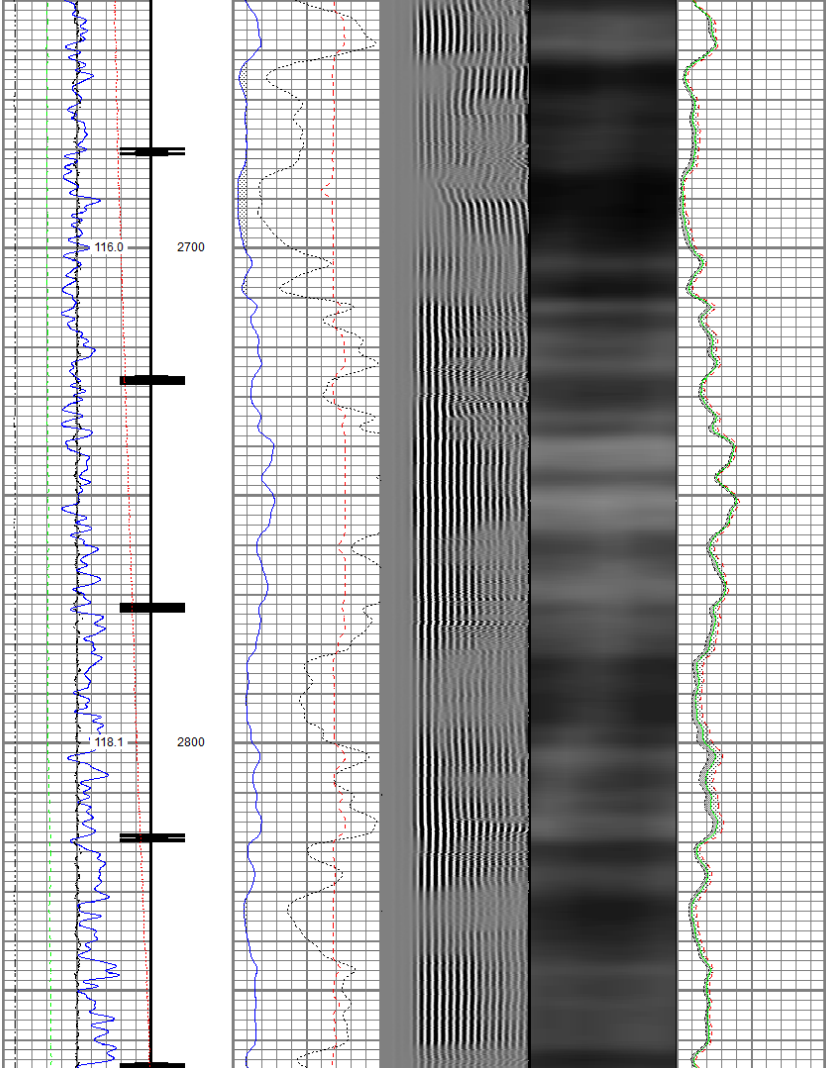


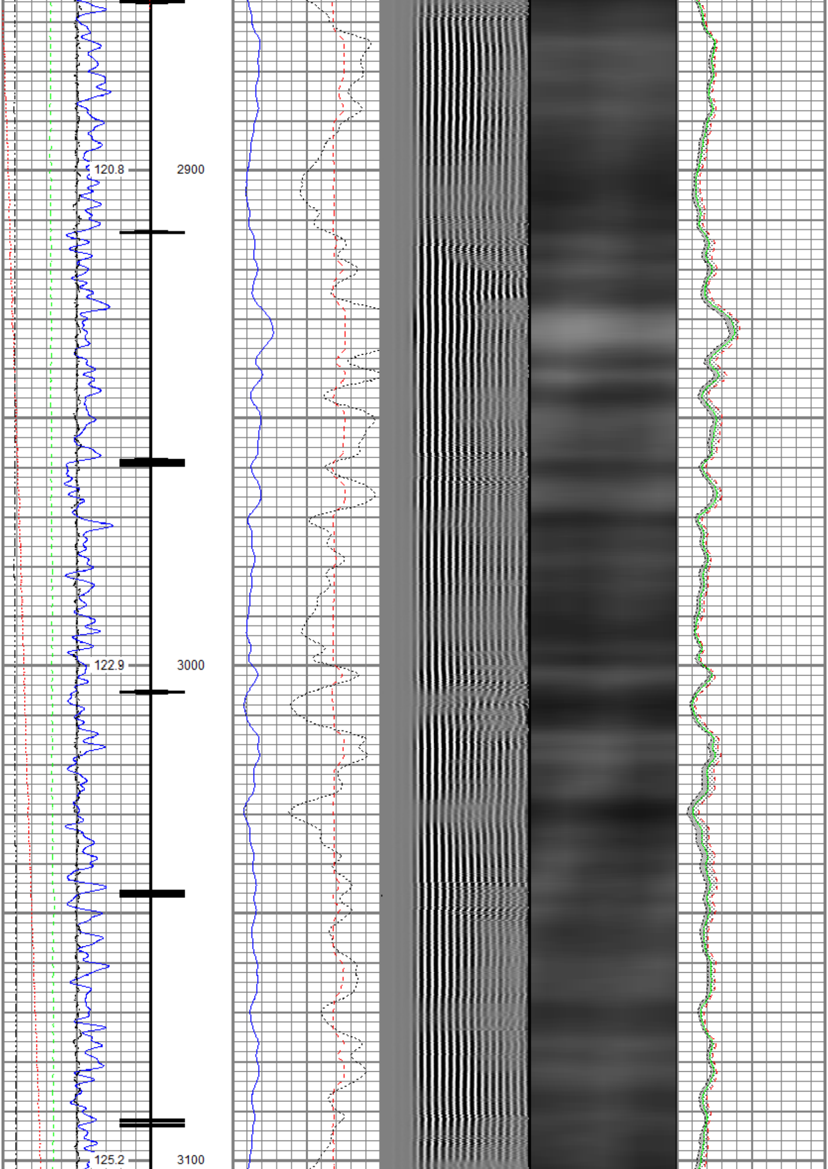


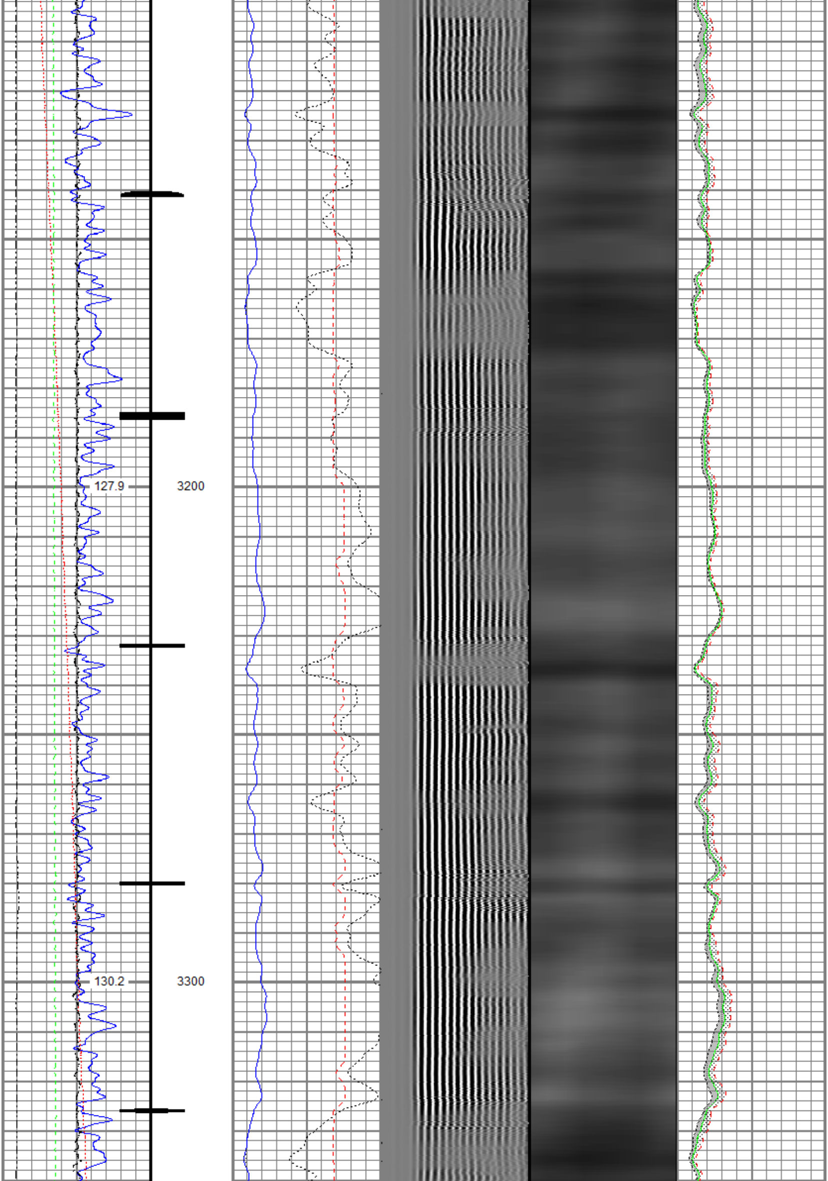


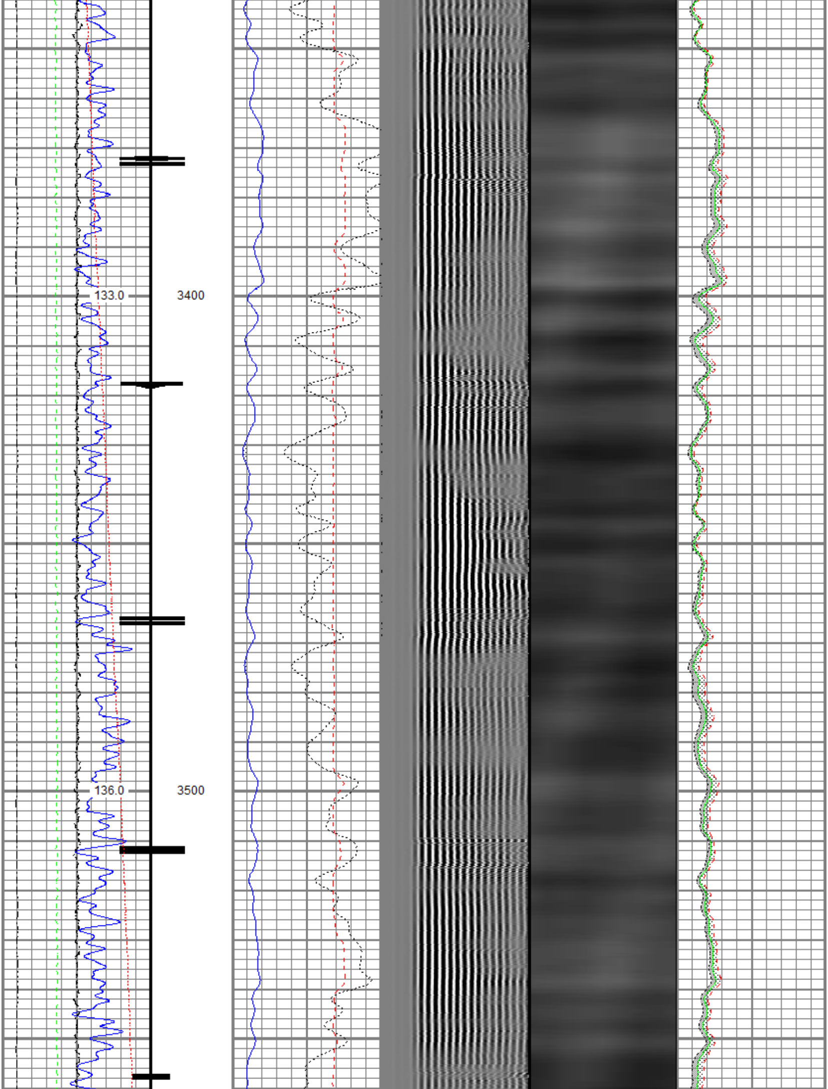


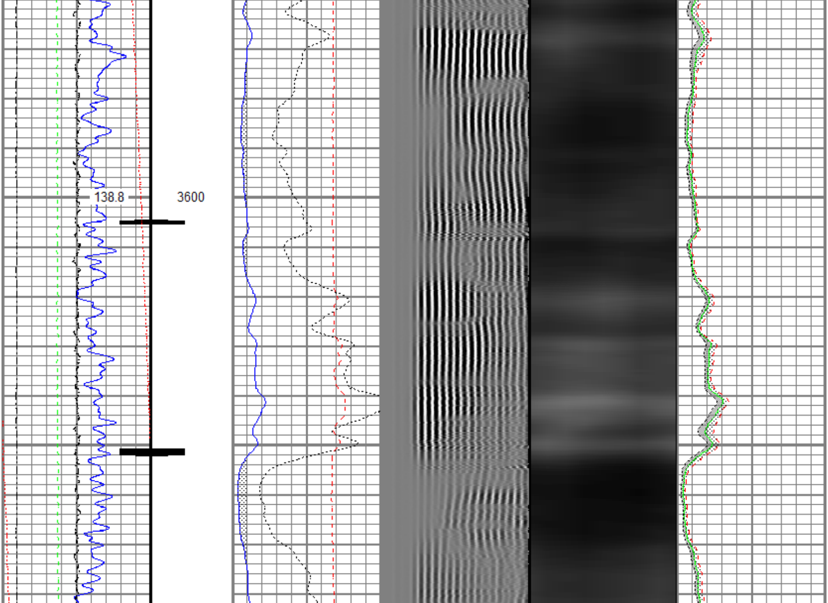


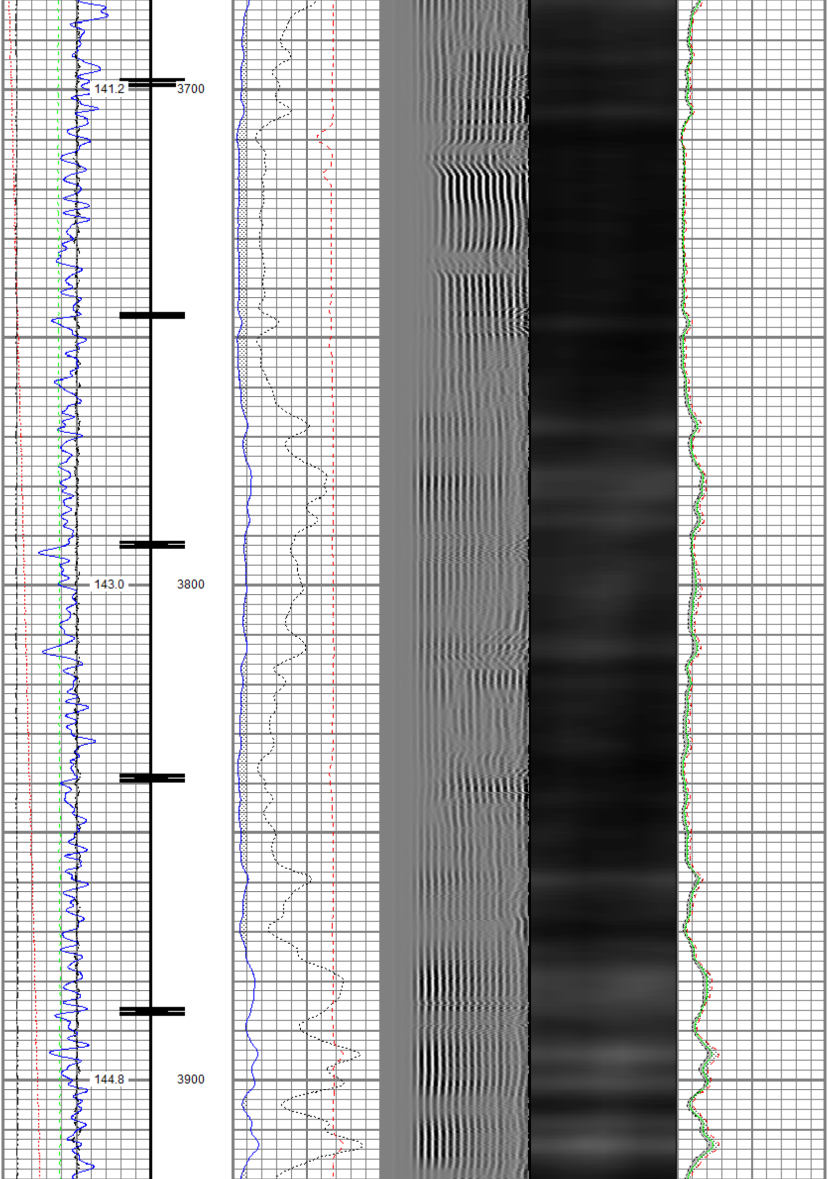


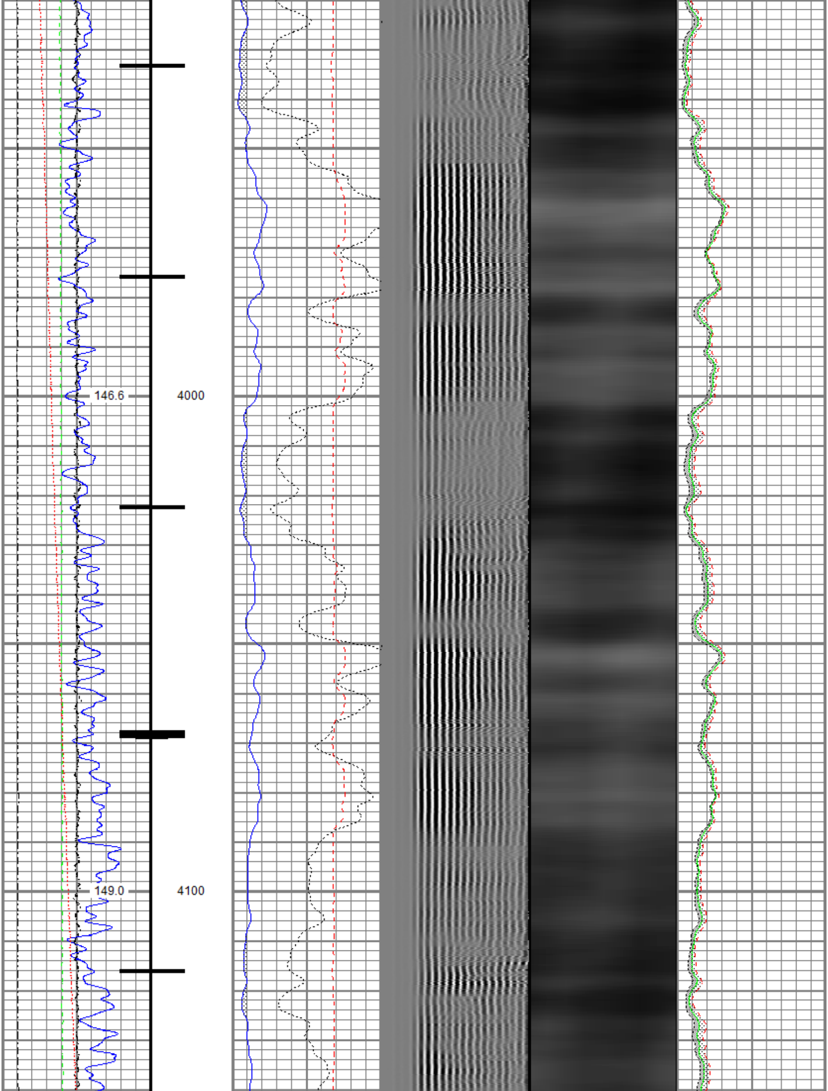


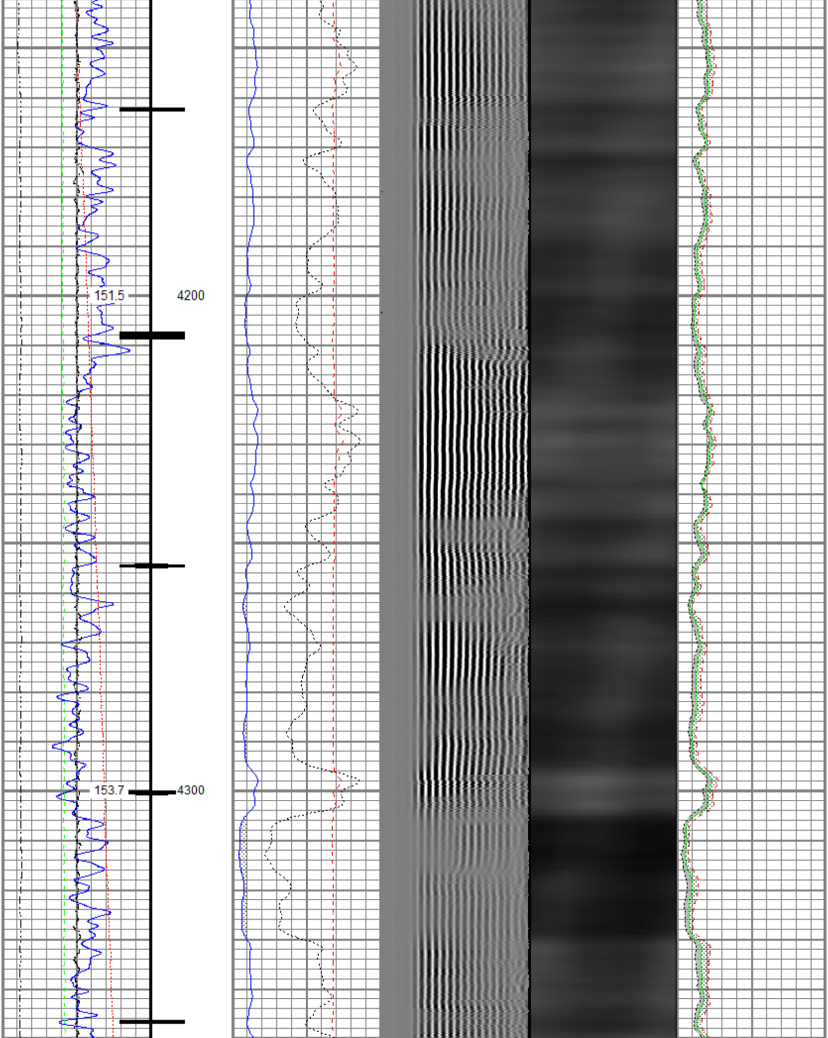


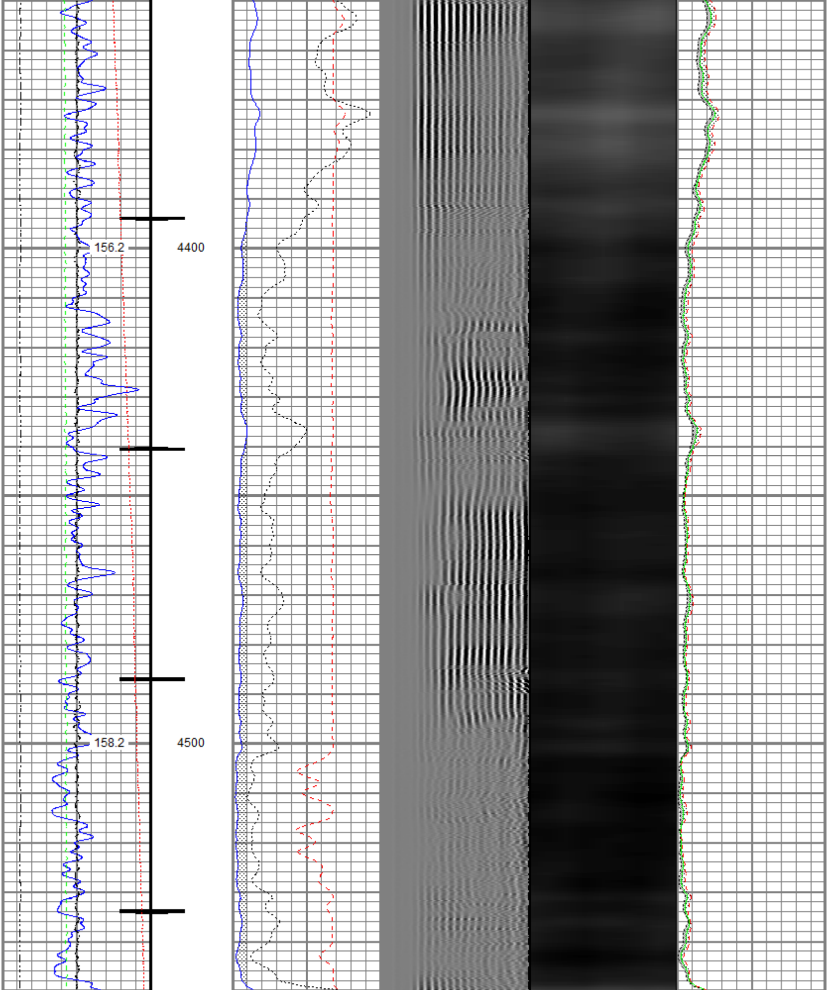


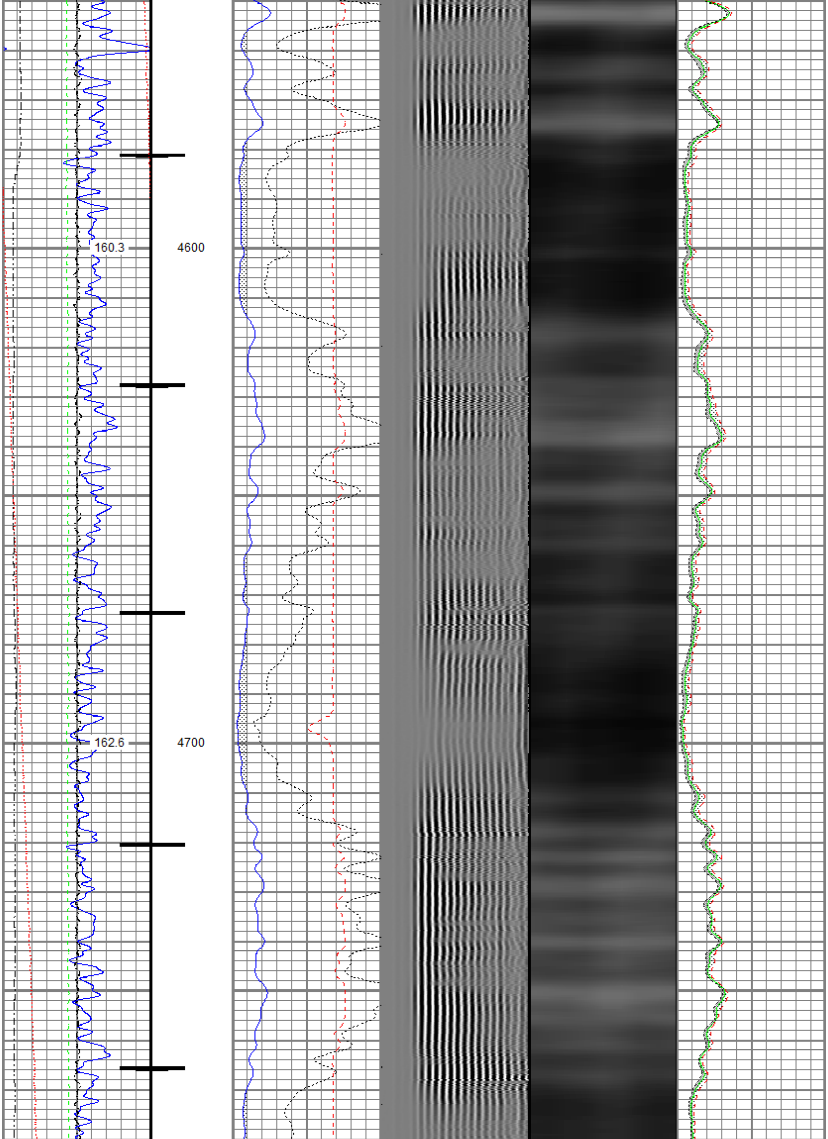


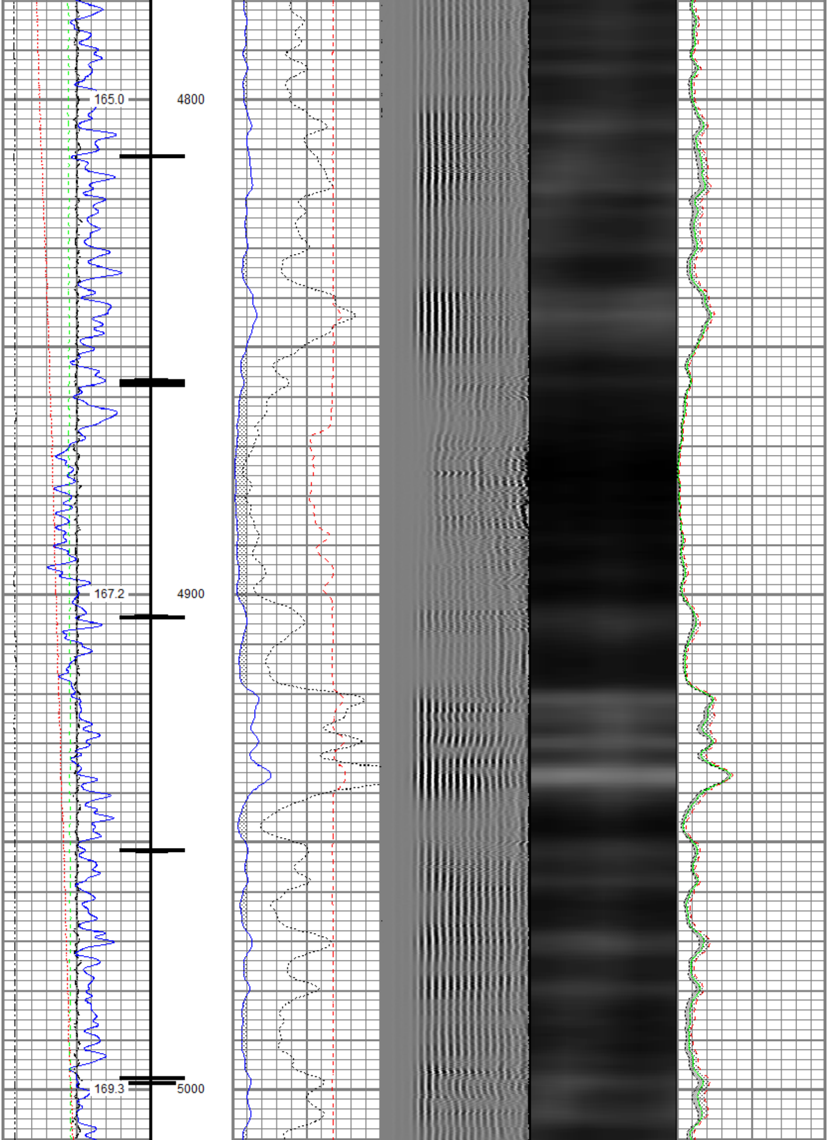


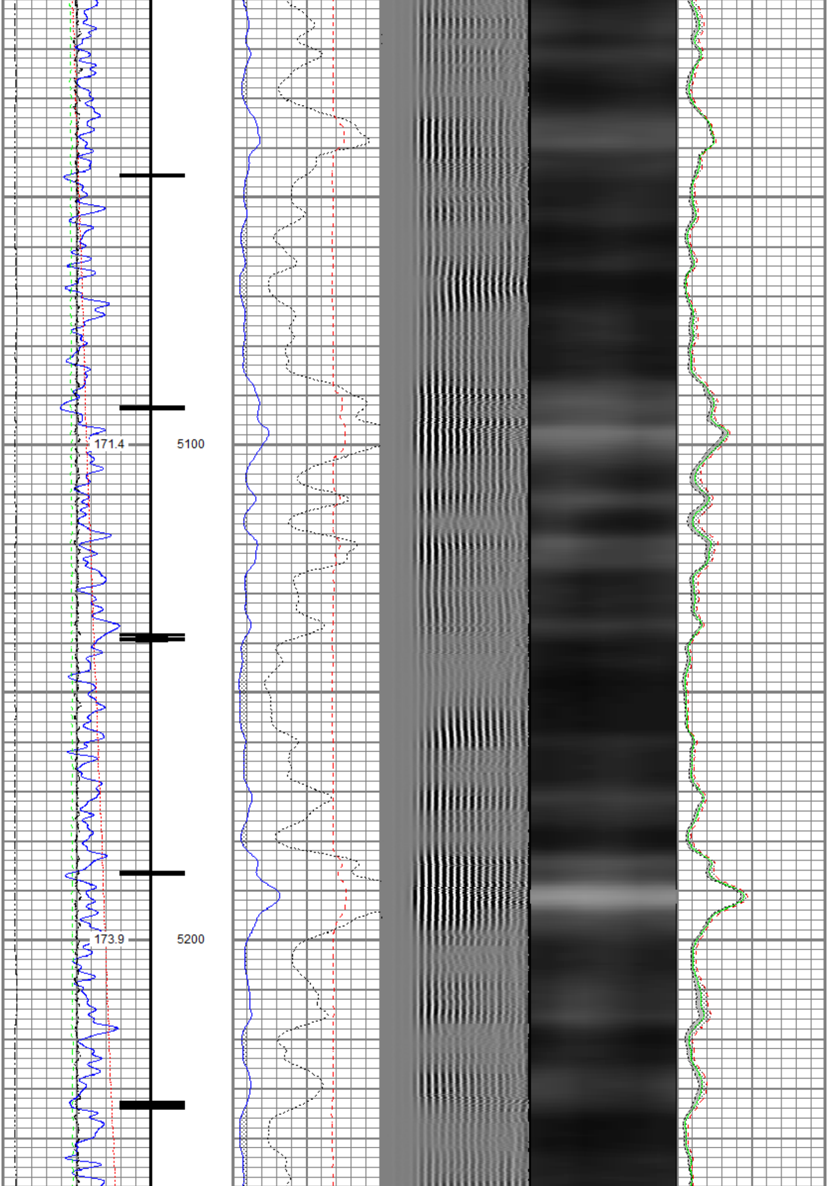


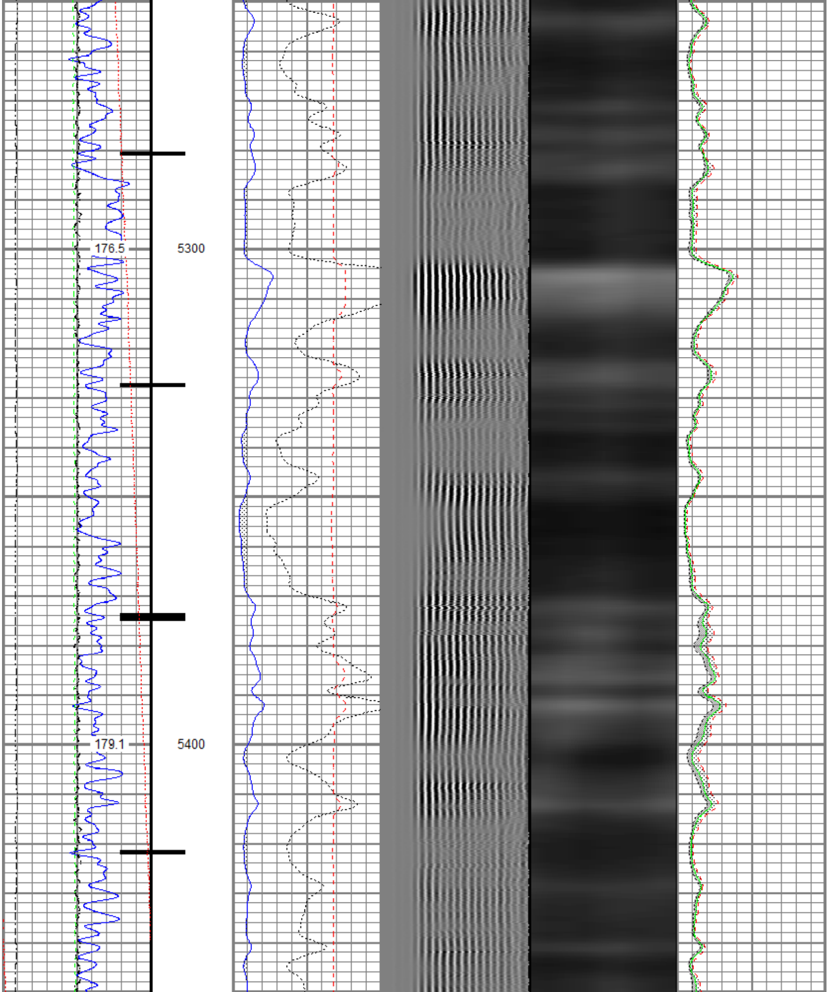


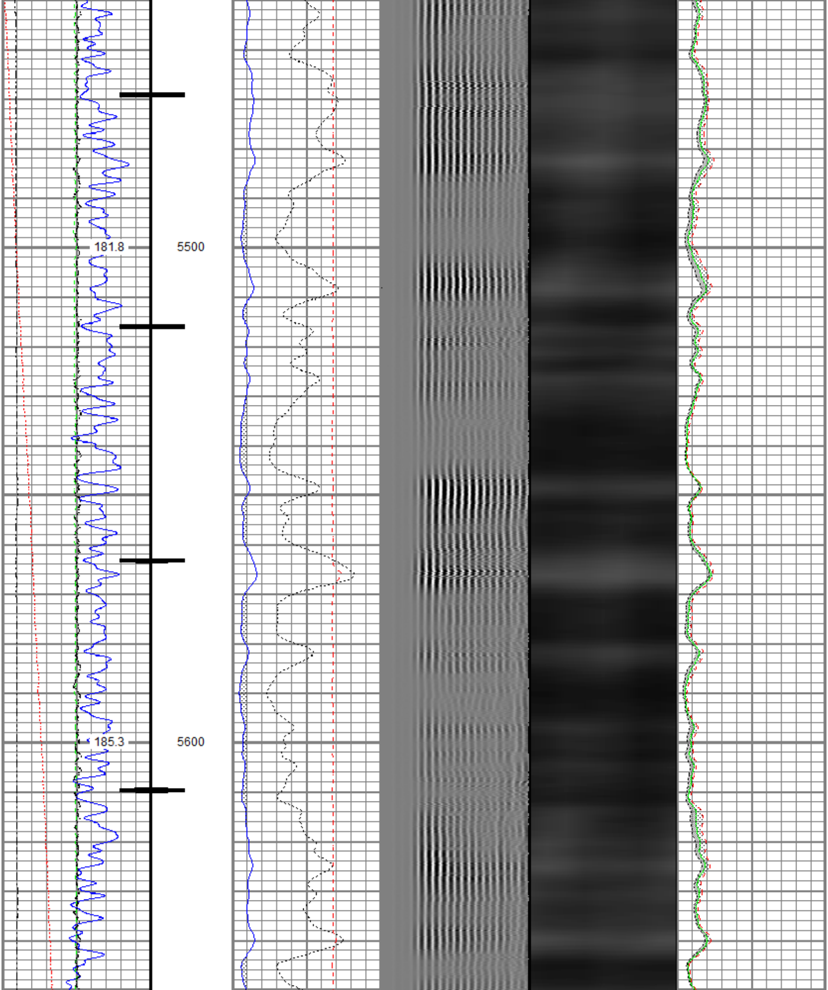


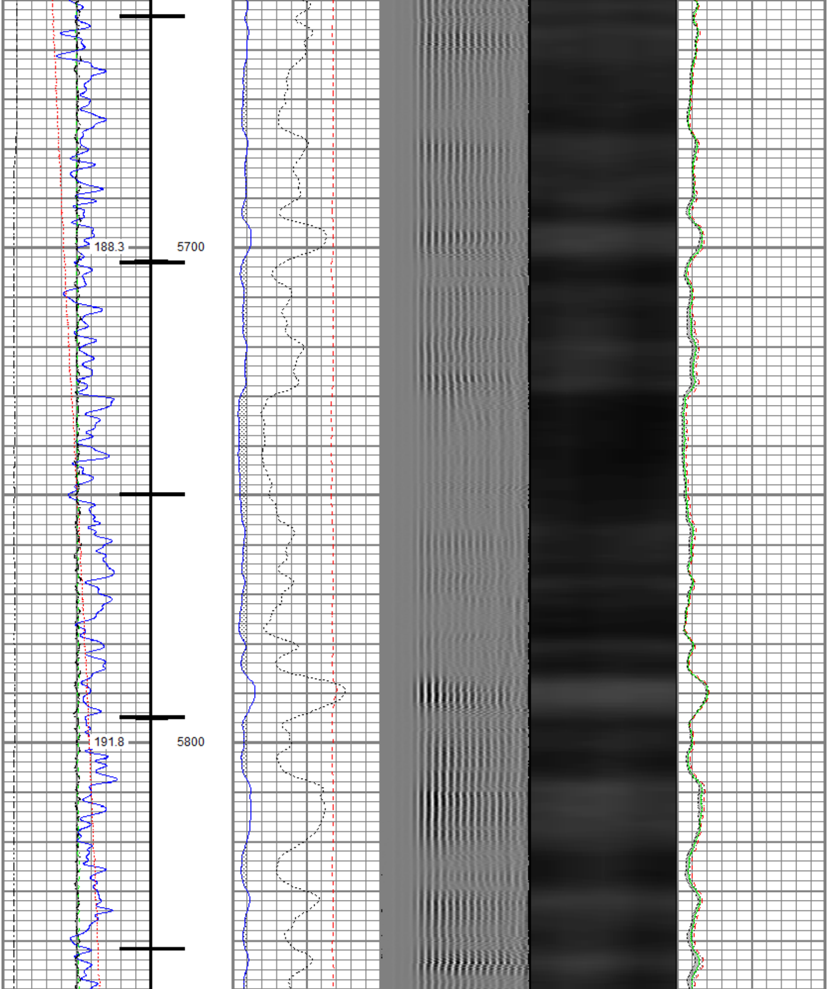


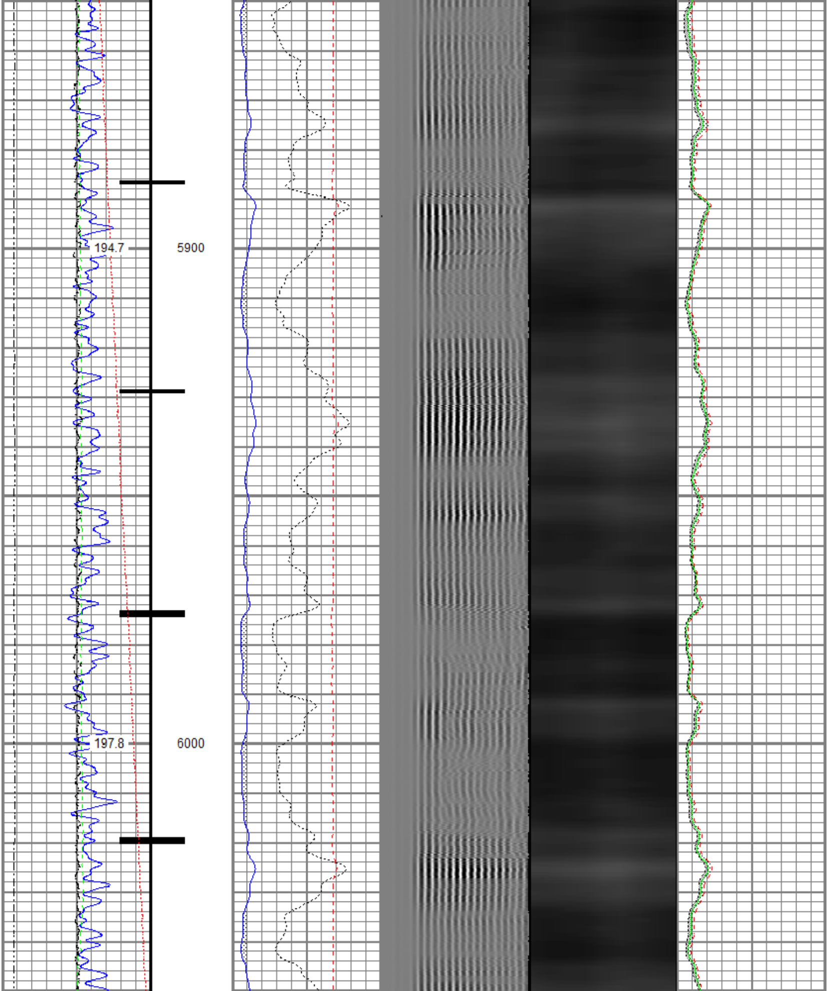


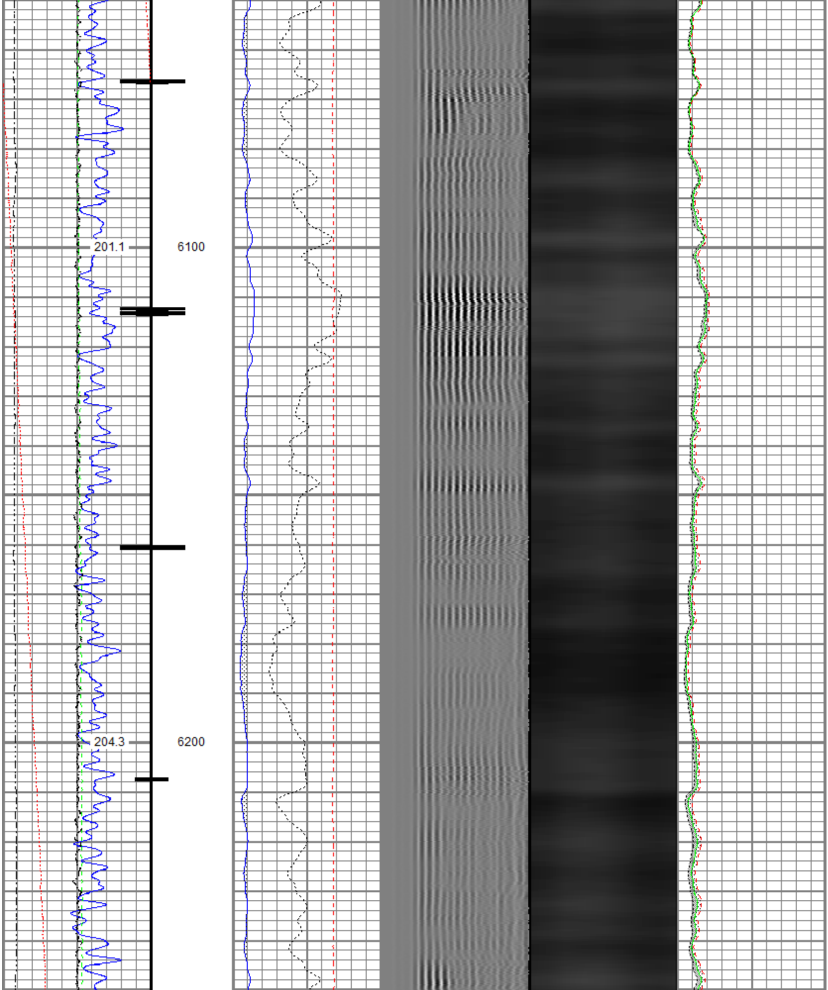


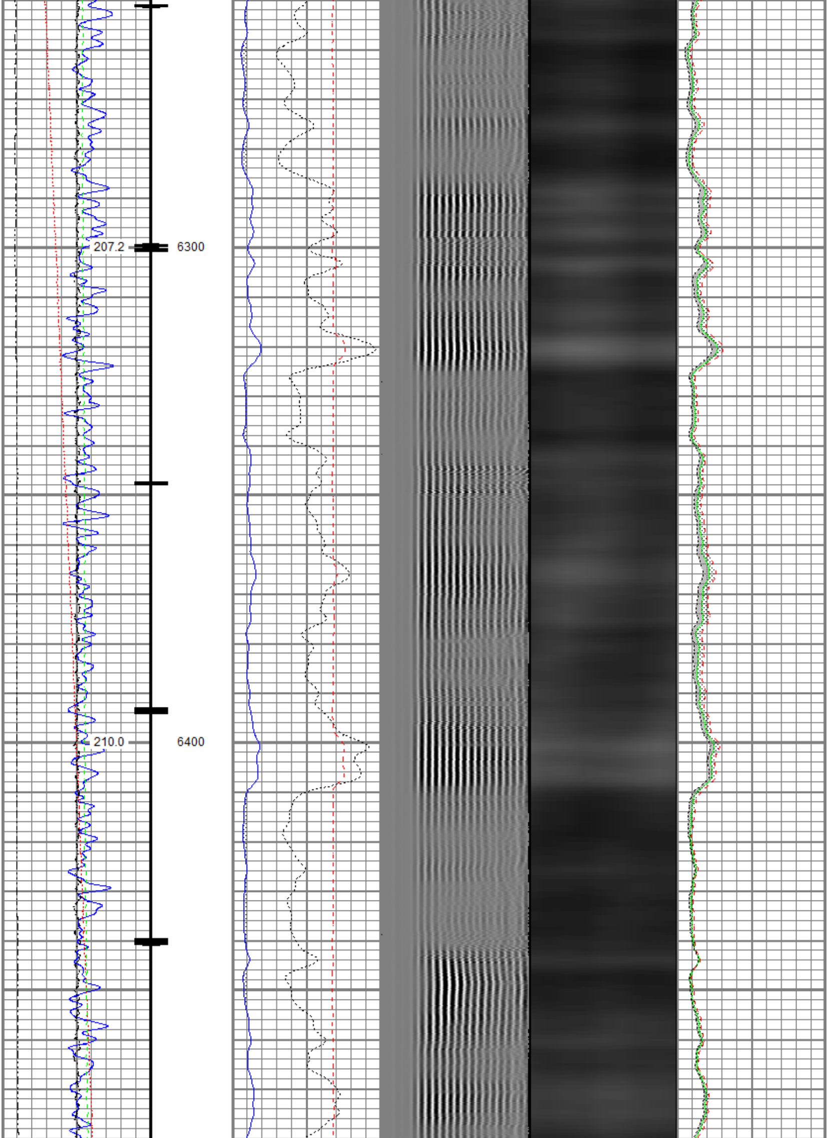


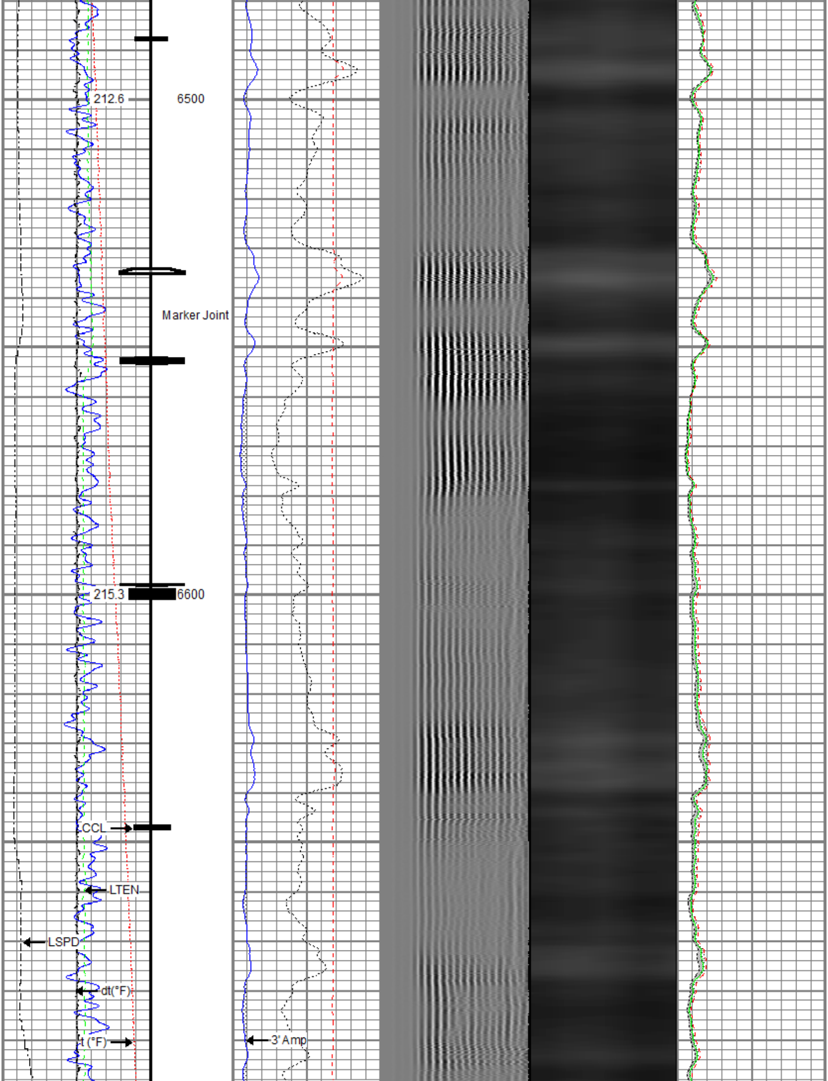


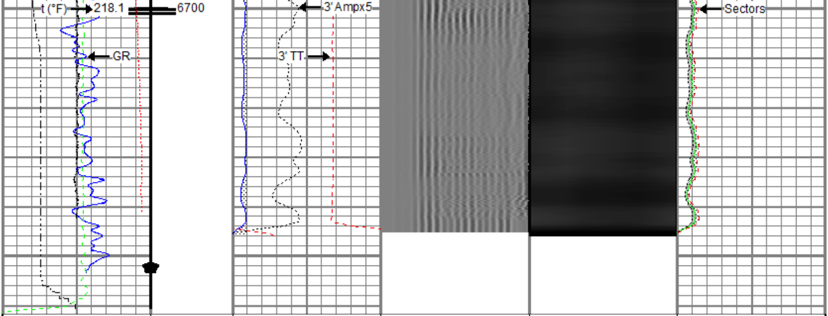












Gamma Ray		5' Variable Density Log	Sector Map	0 Average Amplitude 100
0 (GAPI) 120	0 3' Amplitude (mV) 100	200 1200		Mimimum Amplitude
Casing Collar Locator	3' Amplitude x 5			0 100
0 Temperature (degF) 20	0 (mV) 20			Maximum Amplitude
Line Speed	3' Travel Time			0 100
-150 (ft/min) 150	650 (usec) 150			
0 Line Tension (lb) 2000				
Differential Temperature				
-2 (degF) 2				

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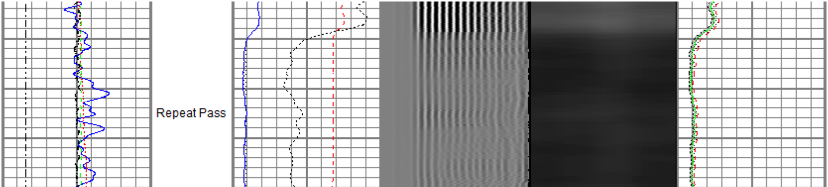
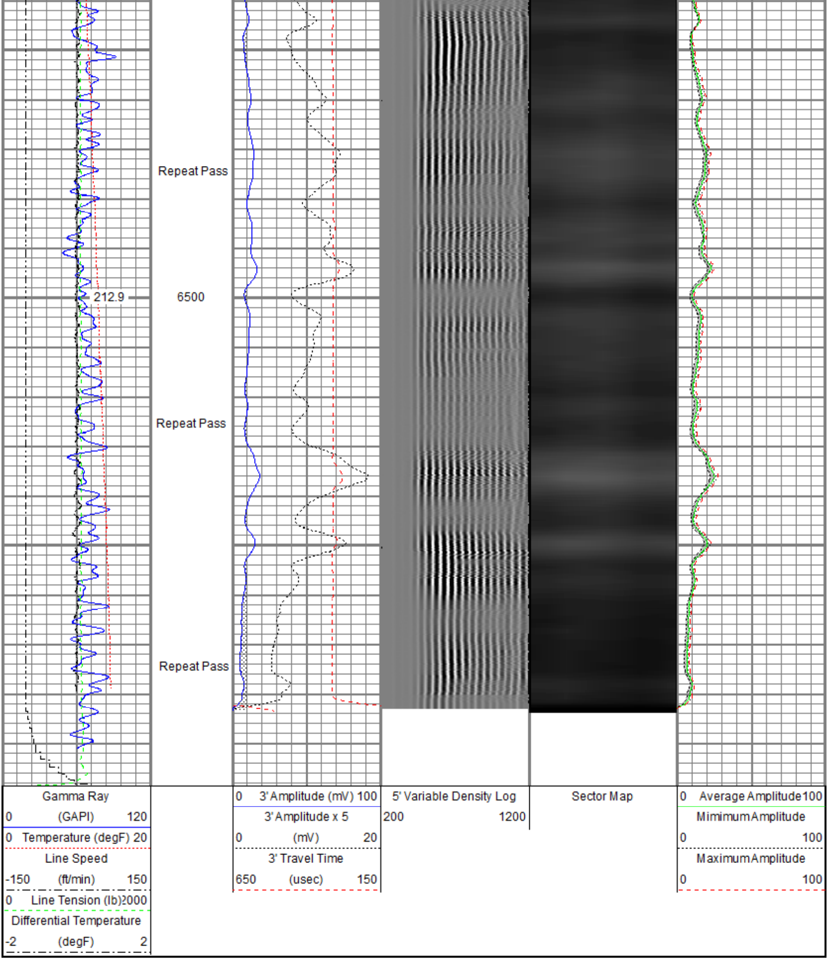
Repeat Pass

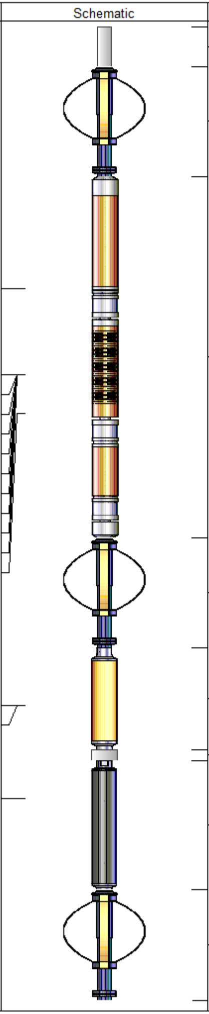
Recorded With 2500 PSI Surface Induced Pressure

Database File	src energy_goetzel 34n-30c-m_rbl_01-21-18\processed_src energy_goetzel 34n-30c-m_rbl_01-21-18.db
Dataset Pathname	well1/run1/repeat5.1
Presentation Format	ros_radii
Dataset Creation	Mon Jan 22 15:27:58 2018
Charted by	Depth in Feet scaled 1:240

Gamma Ray		5' Variable Density Log	Sector Map	0 Average Amplitude 100
0 (GAPI) 120	0 3' Amplitude (mV) 100	200 1200		Mimimum Amplitude
0 Temperature (degF) 20	3' Amplitude x 5			0 100
Line Speed	0 (mV) 20			Maximum Amplitude
-150 (ft/min) 150	3' Travel Time			0 100
0 Line Tension (lb) 2000	650 (usec) 150			
Differential Temperature				
-2 (degF) 2				







Sensor	Offset (ft)
TEMP	18.52
WVFS8	16.28
WVFS7	16.28
WVFS6	16.28
WVFS5	16.28
WVFS4	16.28
WVFS3	16.28
WVFS2	16.28
WVFS1	16.28
WVFCAL	16.28
WVF3FT	16.28
WVF5FT	15.28
CCL$2	7.66
CCL$1	7.66
GR	5.24

Description	Length (ft)	O.D. (in)	Weight (lb)
Titan CHD-14375 GO Titan 1-7/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.44	3.60
Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Probe Radii-2750 RBT (FW1305-096) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00
Probe CCL-2750 SA (FW1307-076) Probe 2-3/4" Digital Six Magnet Logging CCL	2.66	2.75	35.00
Probe ADPT-6P-GO Probe 2-3/4" 6-Pin Top to GO Bottom Adaptor Sub	0.28	2.75	2.00
Probe GR-2750 SA (FW1307-078) Probe 2-3/4" Digital Stand Alone Gamma Ray	3.33	2.75	55.00
Probe CENT-2750 Probe 2-3/4" Electric Inline Bowspring Centralizer	2.88	2.75	20.00

Dataset:	processed_src energy_goetzel 34n-30c-m_rbl_01-21-18.db: field/well1/run1/main6.2
Total length:	25.34 ft
Total weight:	260.60 lb
O.D.:	2.75 in

Calibration Report

Database File	c:\programdata\warrior\data\src energy_goetzel 34n-30c-m_rbl_01-21-18\processed_src energy_goetzel 34n-30c-m_rbl_01-21-1
Dataset Pathname	well1/run1/main6.2
Dataset Creation	Mon Jan 22 14:04:28 2018

Gamma Ray Calibration Report

Serial Number:	FW1307-078	
Tool Model:	2750 SA	
Performed:	Sun Nov 12 06:08:32 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	108.2	cps
Calibrator Reading:	1134.5	cps
Sensitivity:	0.6207	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-096	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	18.596	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.528	0.800	71.921	138.283	-1.057
CAL	0.490	0.503				
5'	0.005	0.433	0.800	71.921	165.960	-0.014
SUM						
S1	0.010	0.513	0.000	100.000	198.559	-1.939
S2	0.014	0.501	0.000	100.000	205.125	-2.846
S3	0.014	0.501	0.000	100.000	205.146	-2.790
S4	0.011	0.504	0.000	100.000	203.080	-2.261
S5	0.009	0.527	0.000	100.000	192.836	-1.672
S6	0.008	0.546	0.000	100.000	186.035	-1.566
S7	0.010	0.546	0.000	100.000	186.389	-1.853
S8	0.011	0.541	0.000	100.000	188.862	-2.113

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.490	0.503	1.000	0.000

Air Zero Calibration, performed Sun Jan 21 06:40:56 2018:

	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:	FW1305-096	
Tool Model:	2750 RBT	
Performed:	Sun Nov 12 13:42:10 2017	
	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	

RELIANCE
OILFIELD SERVICES

Company	SRC Energy Inc
Well	Goetzel 34N-30C-M
Field	Wattenberg
County	Weld
State	Colorado