Radial Cement Bond
Gamma Ray
Casing Collar Log

THE WIRELINE GROUP

Company TEP Rocky Mountain LLC
Well Federal #RG 512-18-297
Field Sulfer Creek
County Rio Blanco
State Colorado

Company TEP Rocky Mountain LLC
Well Federal #RG 512-18-297
Field Sulfer Creek
County Rio Blanco State Colorado
Location: API #: 05-103-12580
SEC 13 TWP 2S RGE 98W
Other Services

Permanent Datum Ground Level Elevation 6667'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 6697'
D.F. 6696'
G.L. 6667'

Date	12-JUL-2024
Run Number	One
Depth Driller	11116'
Depth Logger	11036'
Bottom Logged Interval	11030'
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	Water
Density / Viscosity	8.34 Lb/Gal
Max. Recorded Temp.	251°F
Estimated Cement Top	See Log
Time Well Ready	ROA
Time Logger on Bottom	8:00
Equipment Number	8102
Location	Grand Junction
Recorded By	P. Edwards
Witnessed By	C. Applegate

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36	Surface	1378'
Prot. String				
Production String	4.5"	11.6	Surface	11106'
Liner				

<<< Fold Here >>>

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

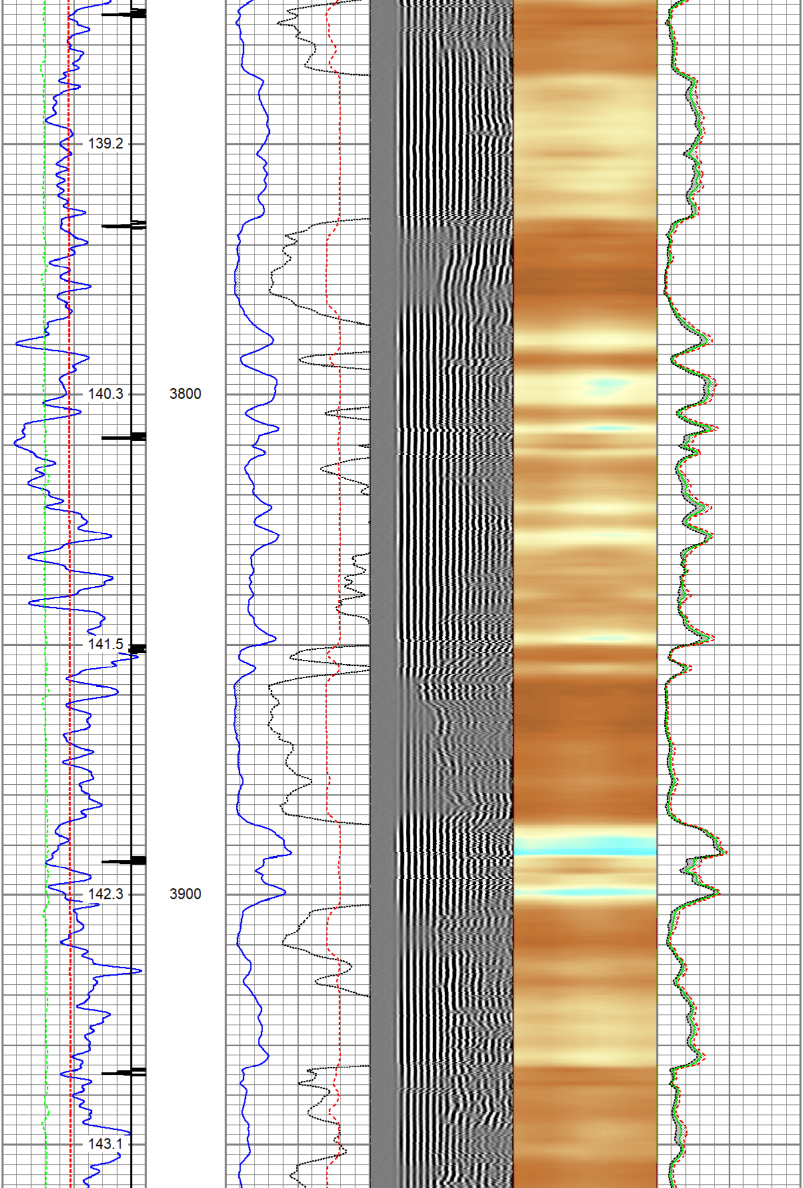
Log ran as per customer request
Depth referenced to Kelly Bushing at 30'
Marker joint logged @ 5712' - 5722'

Thank you for choosing The Wireline Group!

THE WIRELINE GROUP

Main Pass 5" = 100' (0 PSI)

Database File terra_rg_512-18-297_rcbl\terra_rg_512-18-297_rcbl.db
Dataset Pathname main1
Presentation Format twgrcbl
Dataset Creation Fri Jul 12 08:07:59 2024
Charted by Depth in Feet scaled 1:240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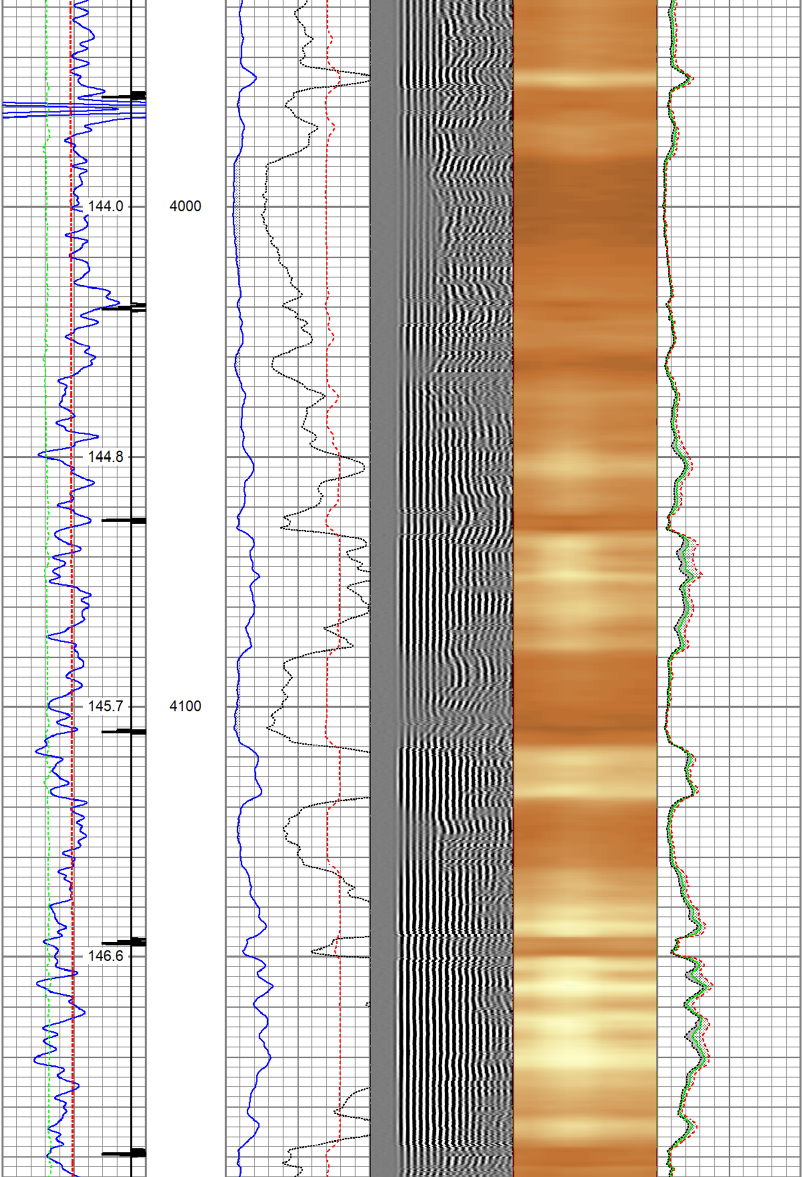
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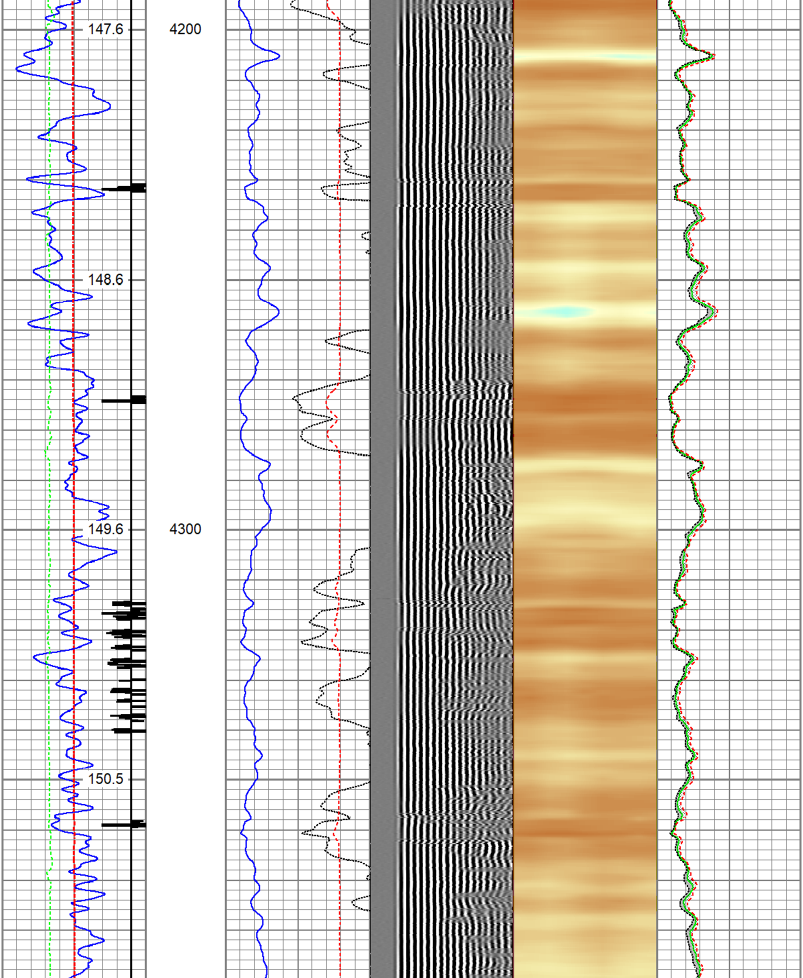
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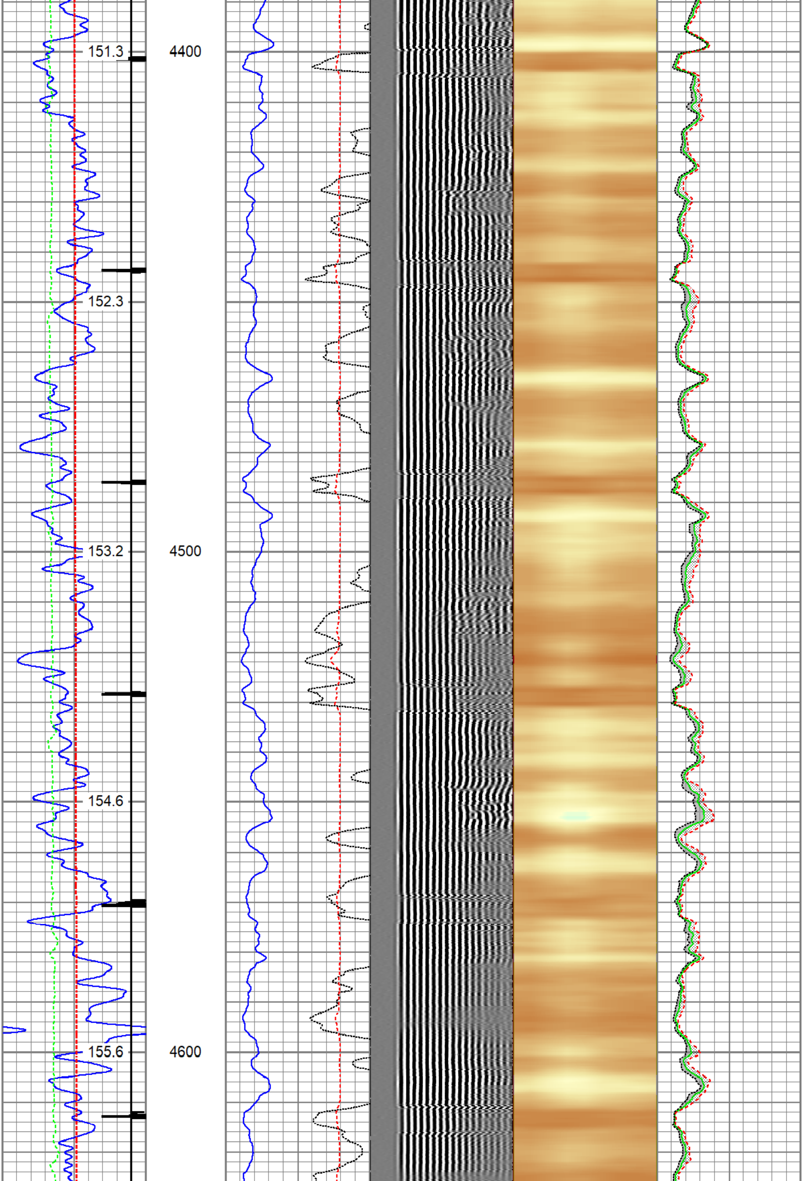
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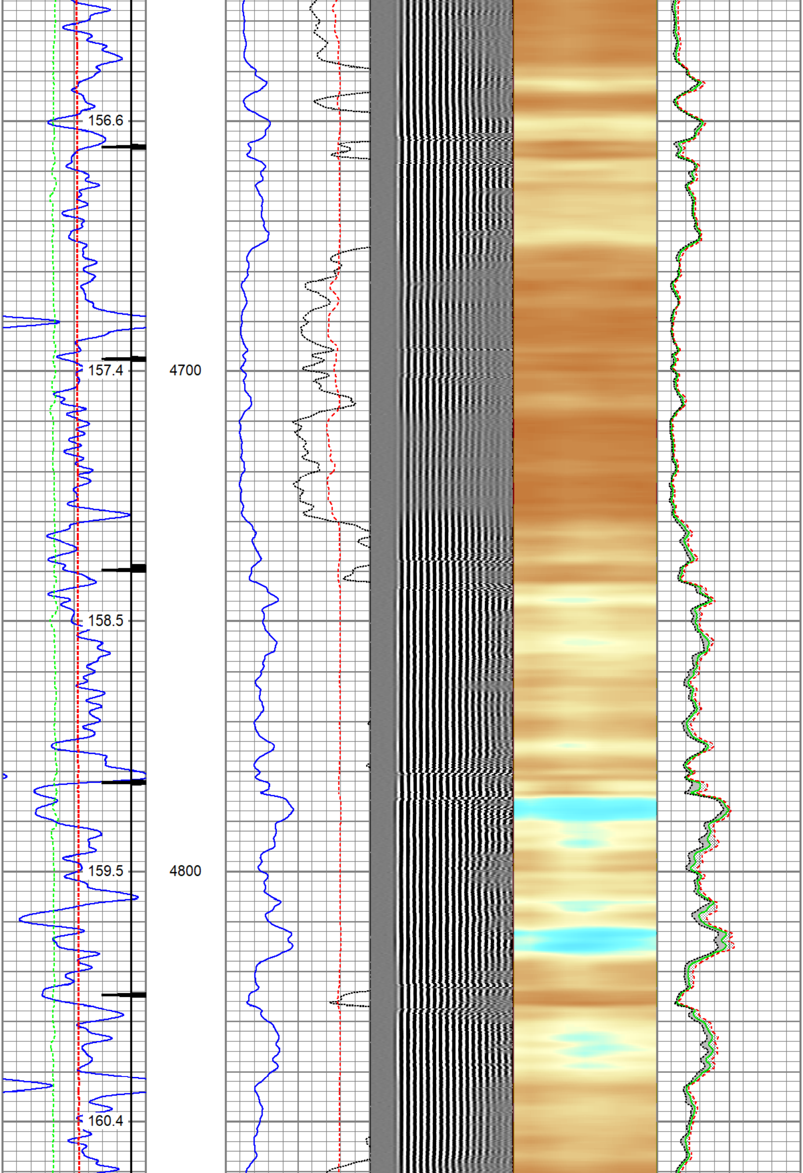
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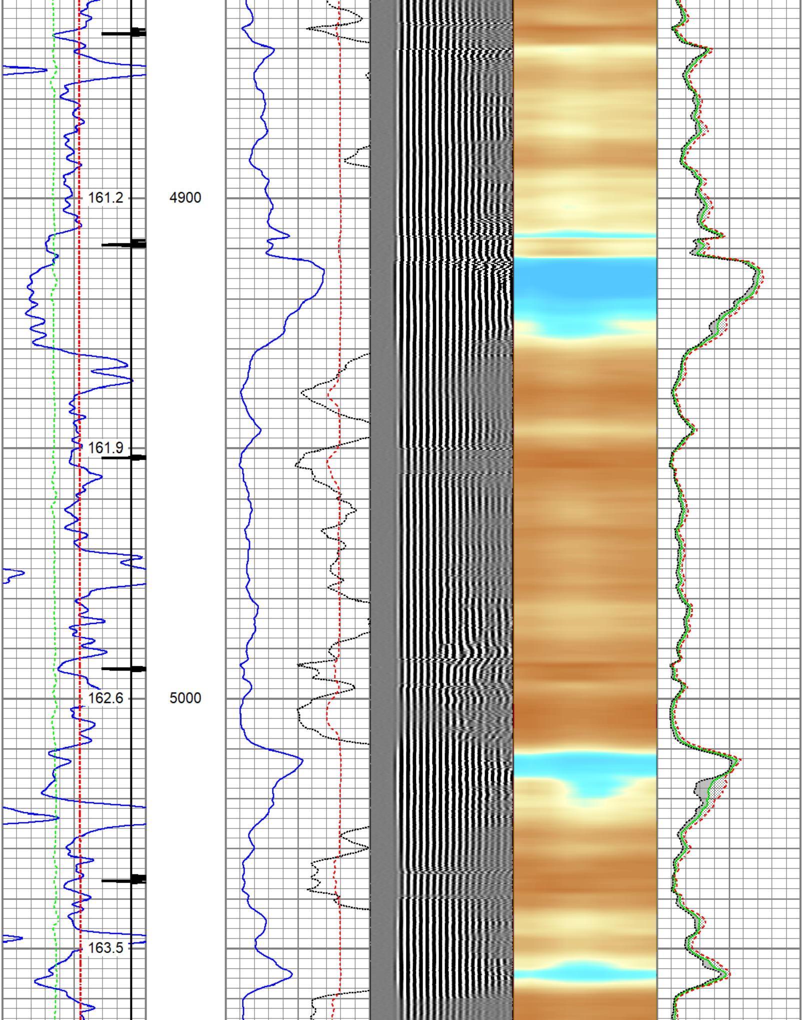
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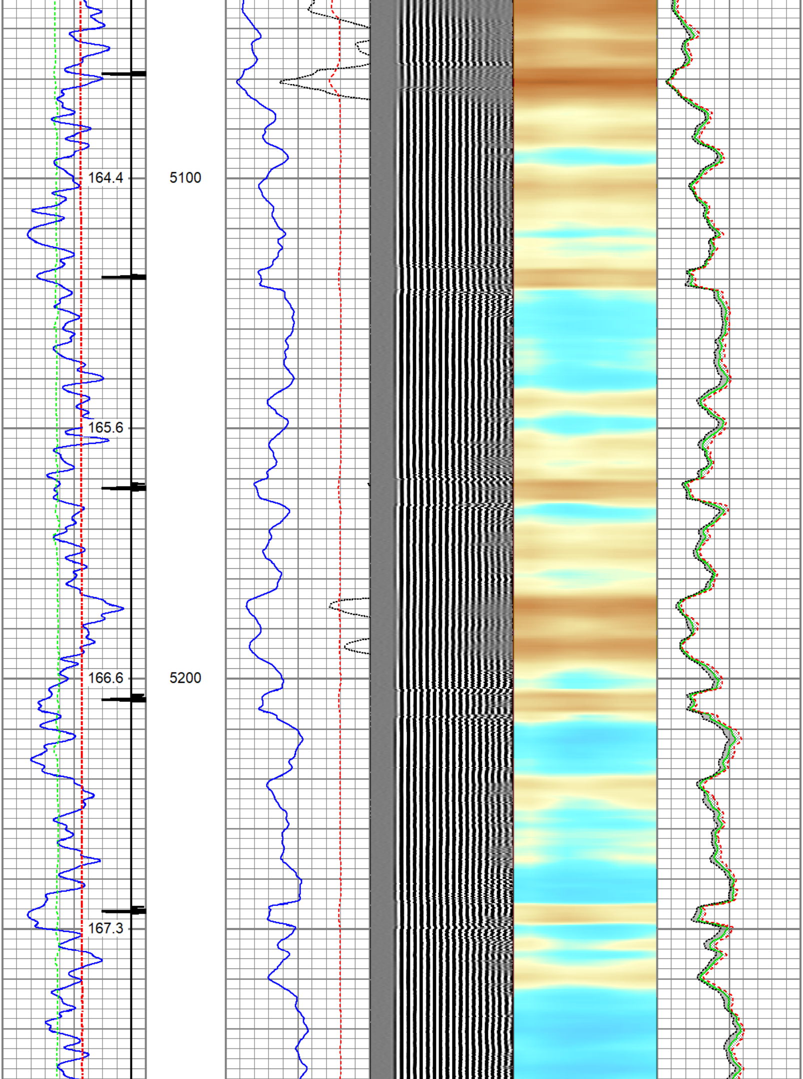
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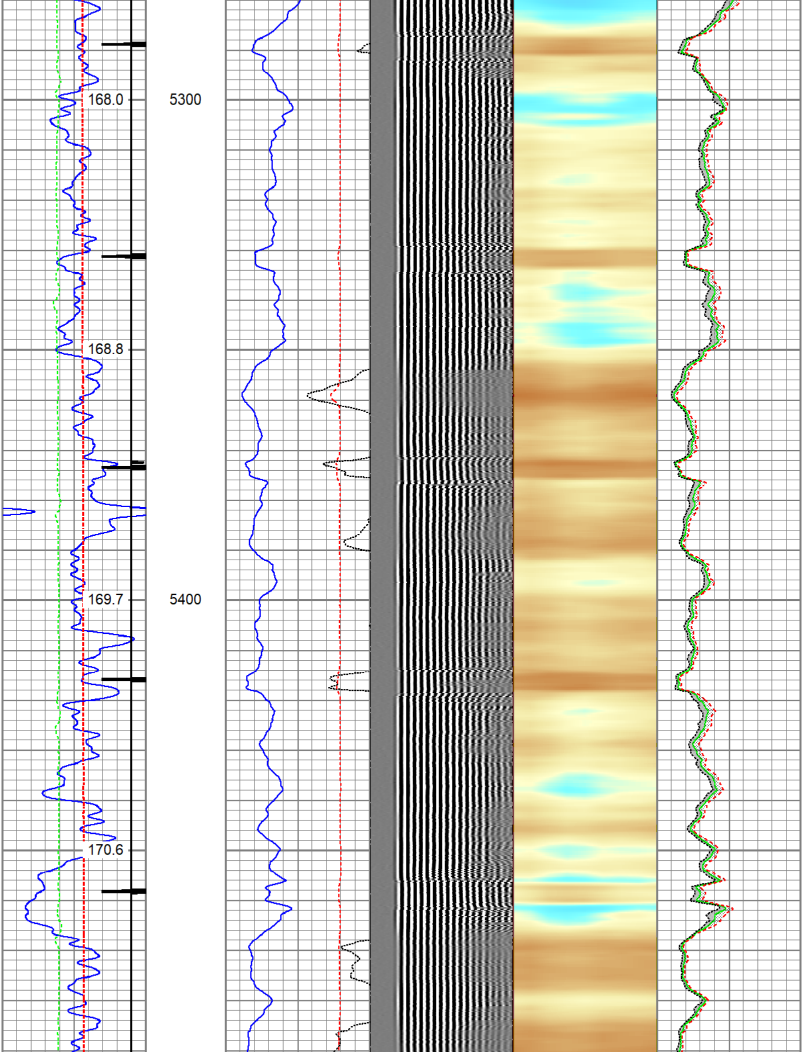
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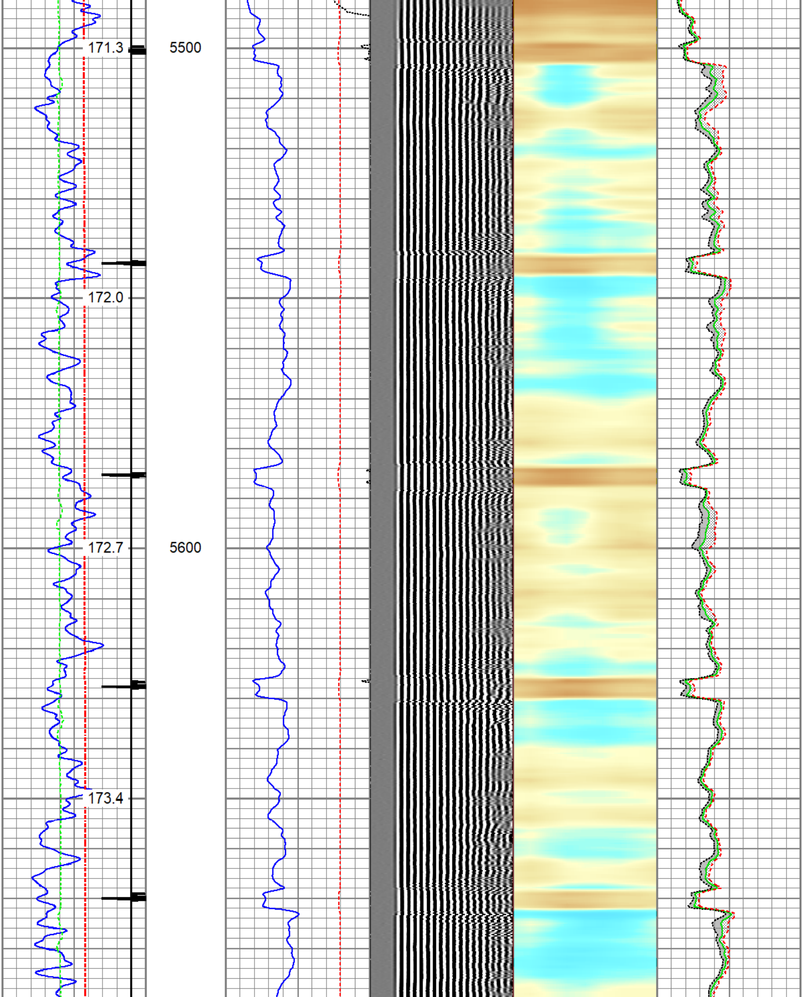
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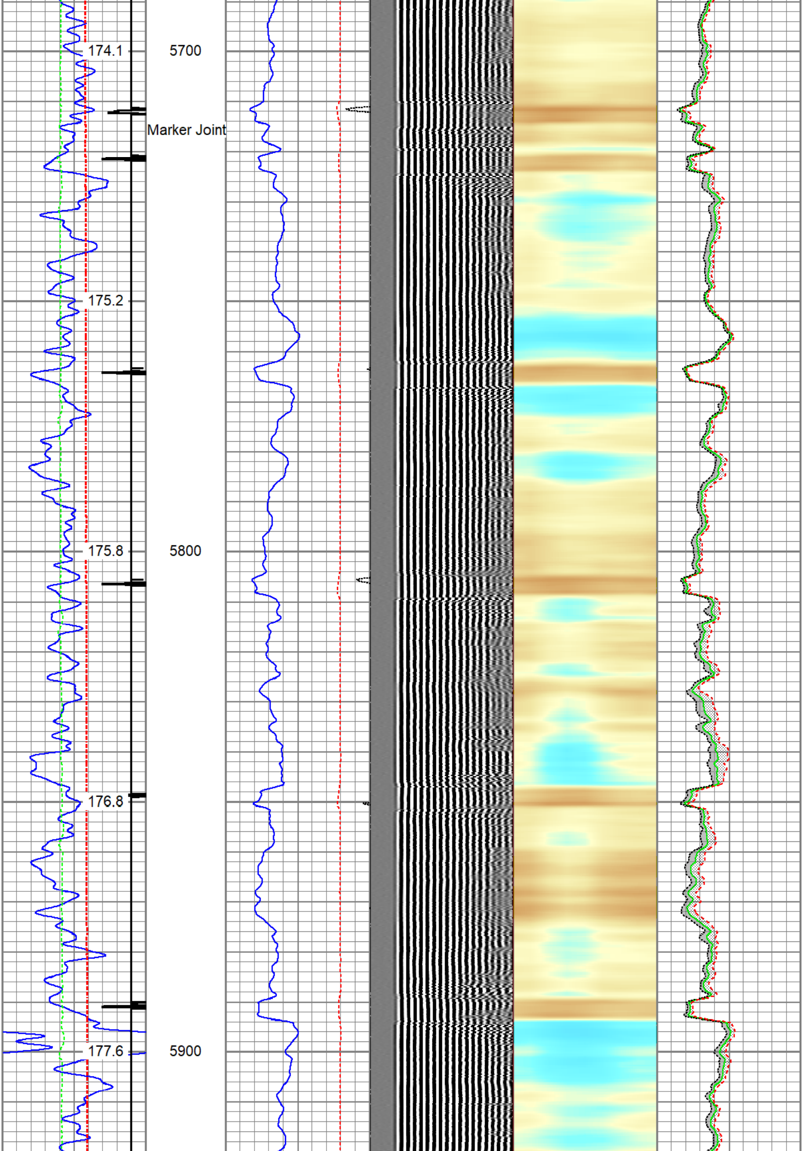
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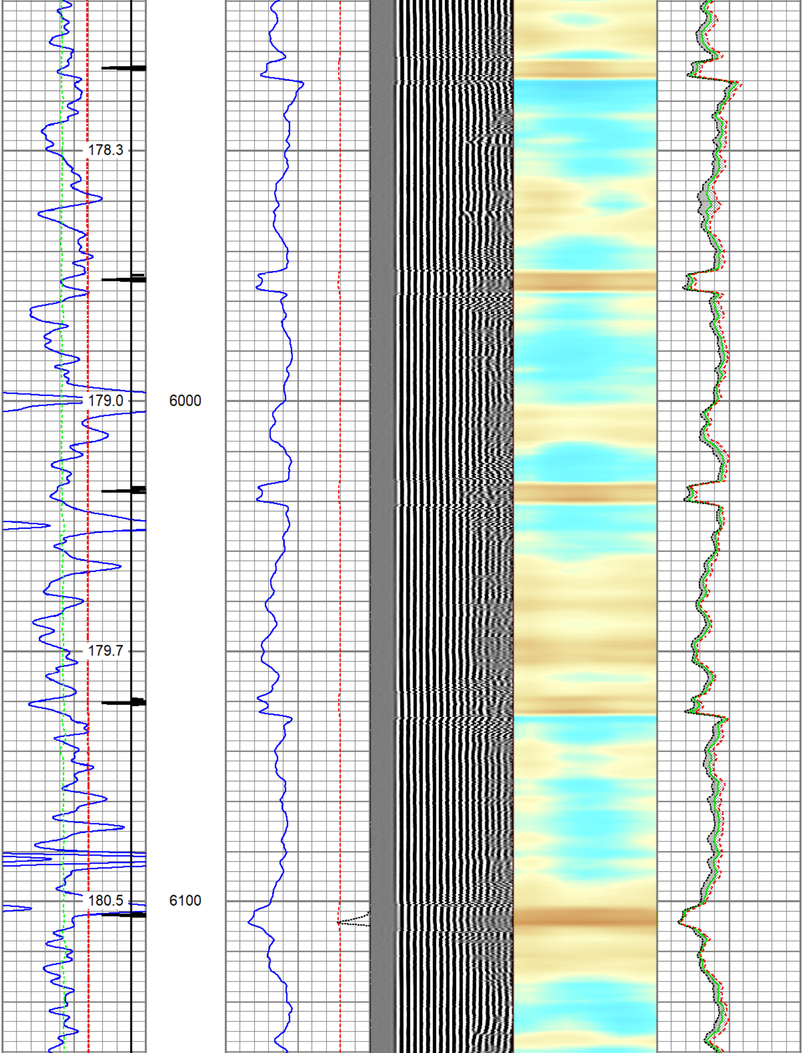
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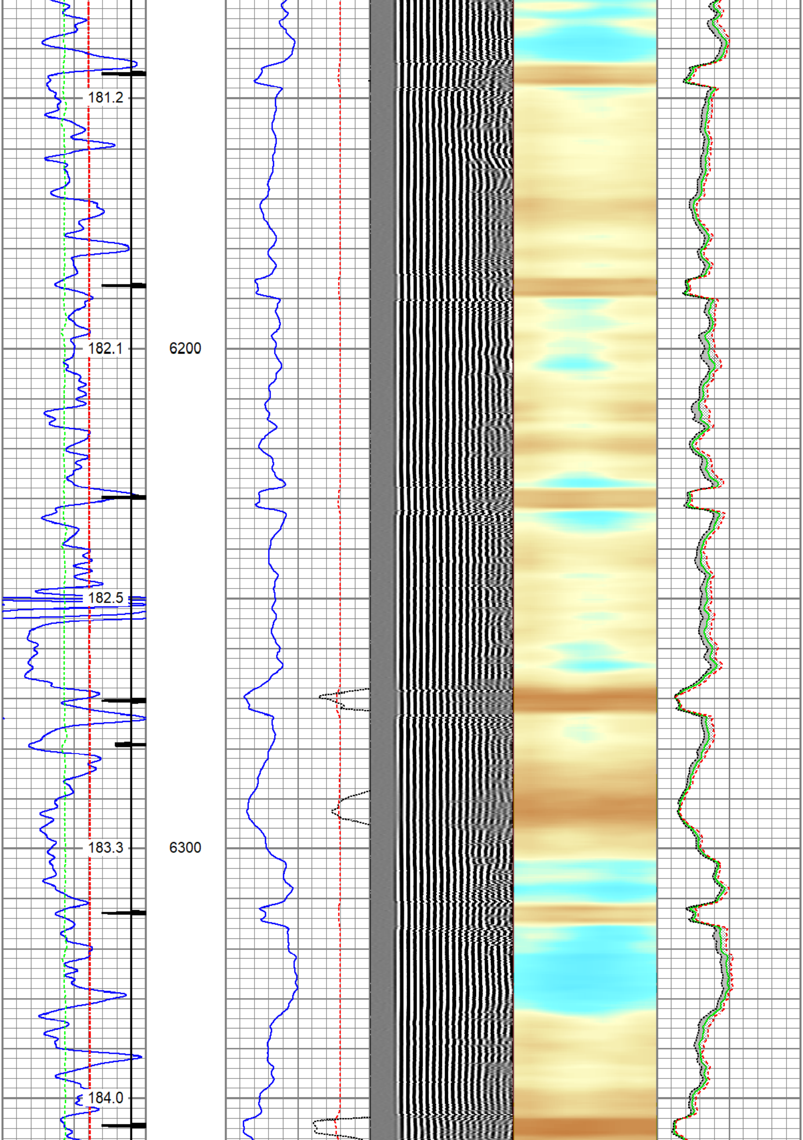
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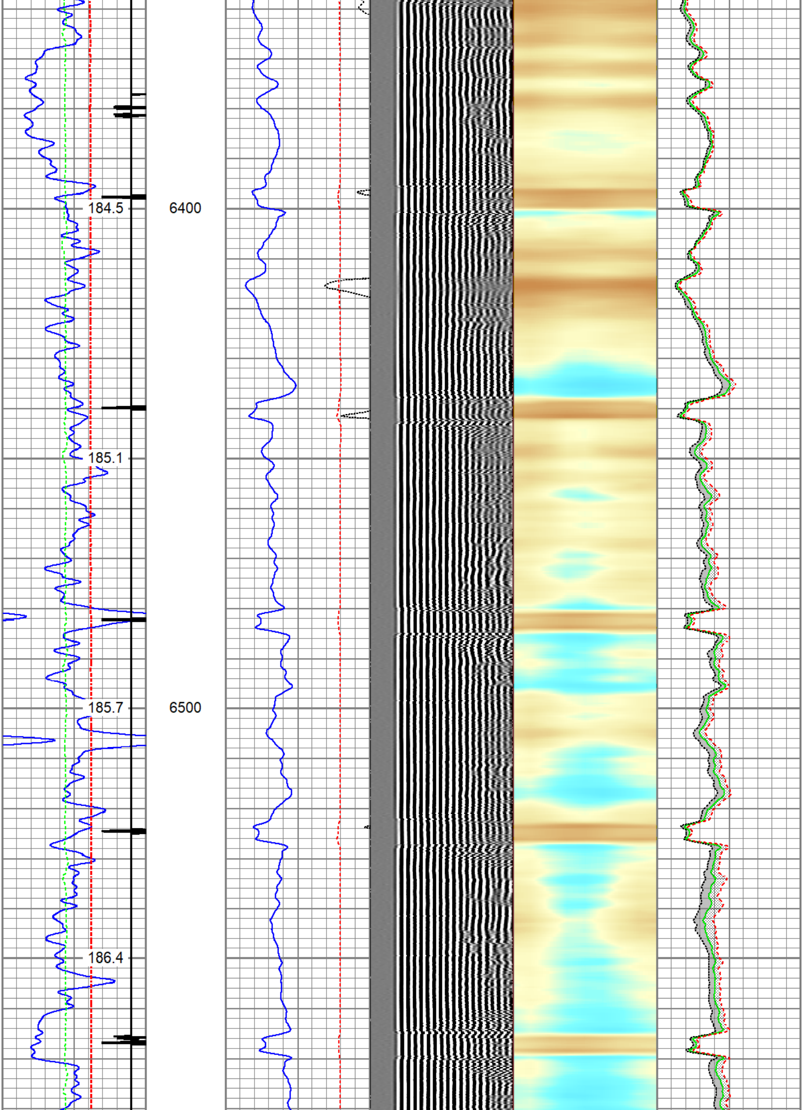
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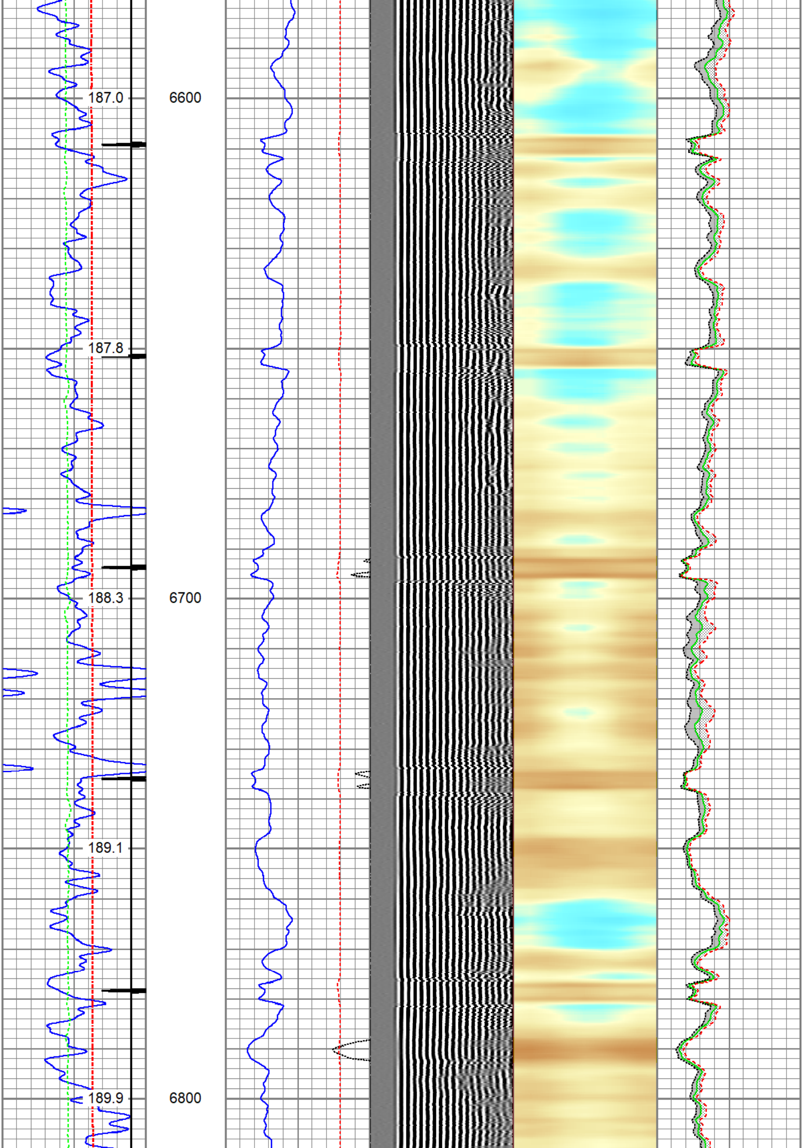
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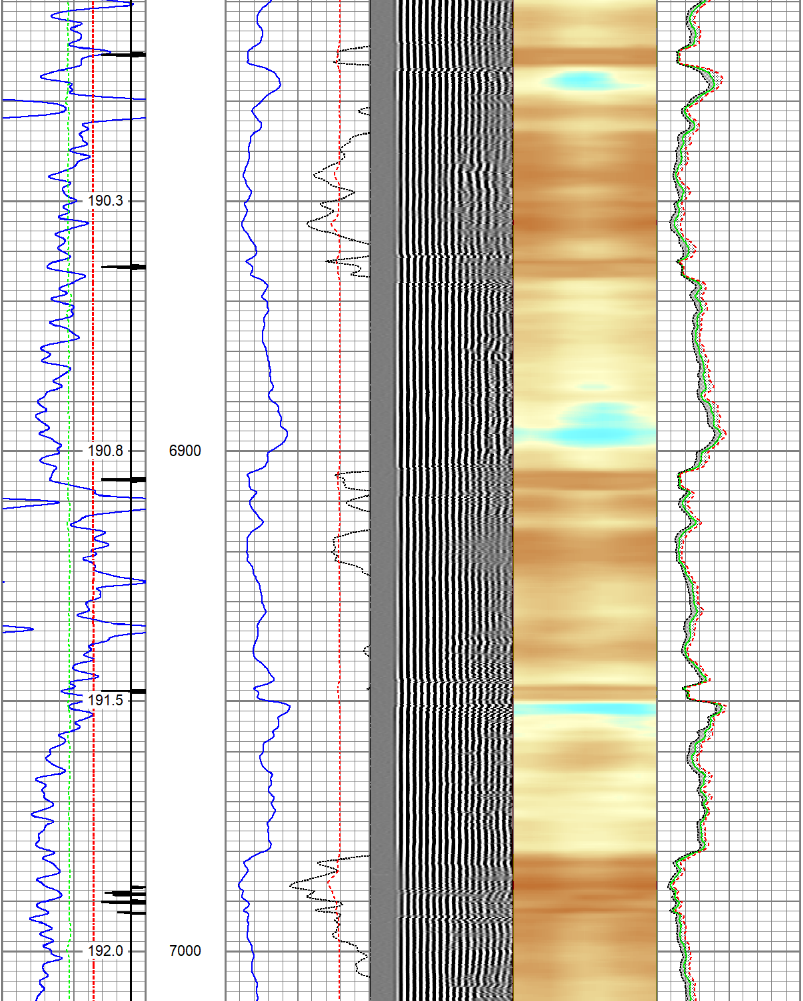
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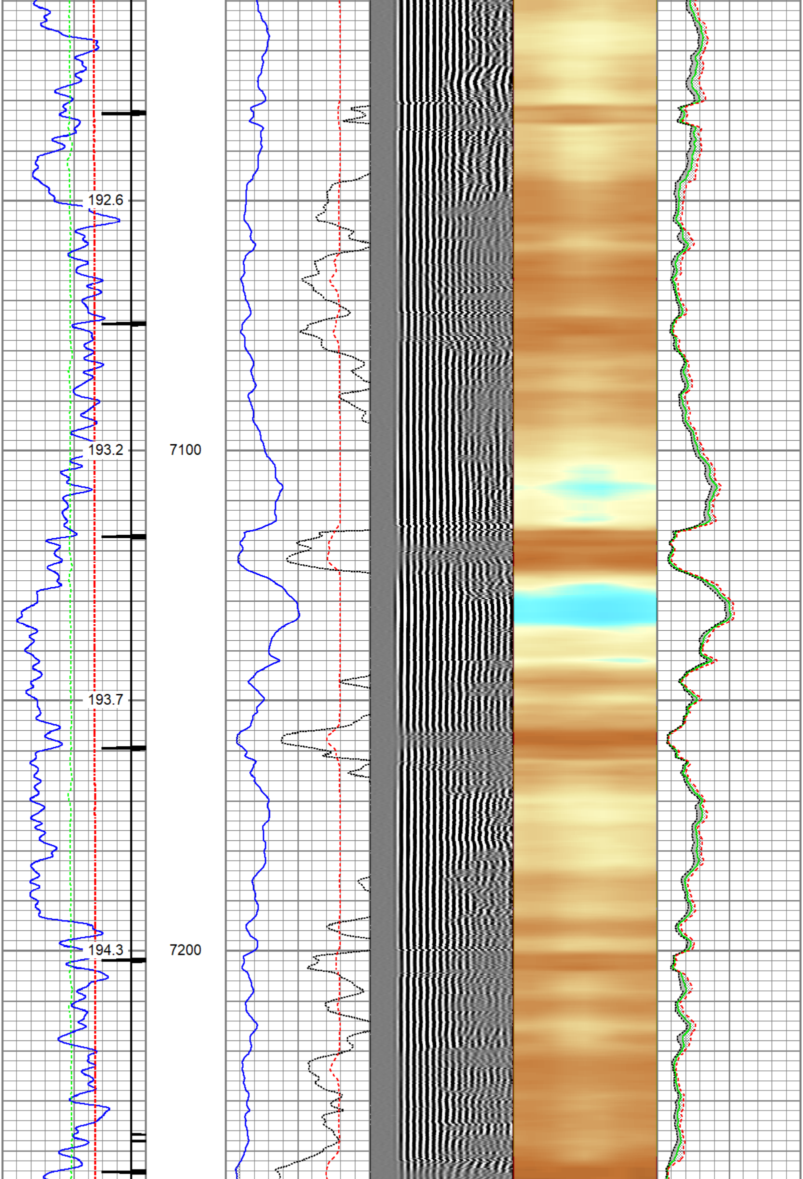
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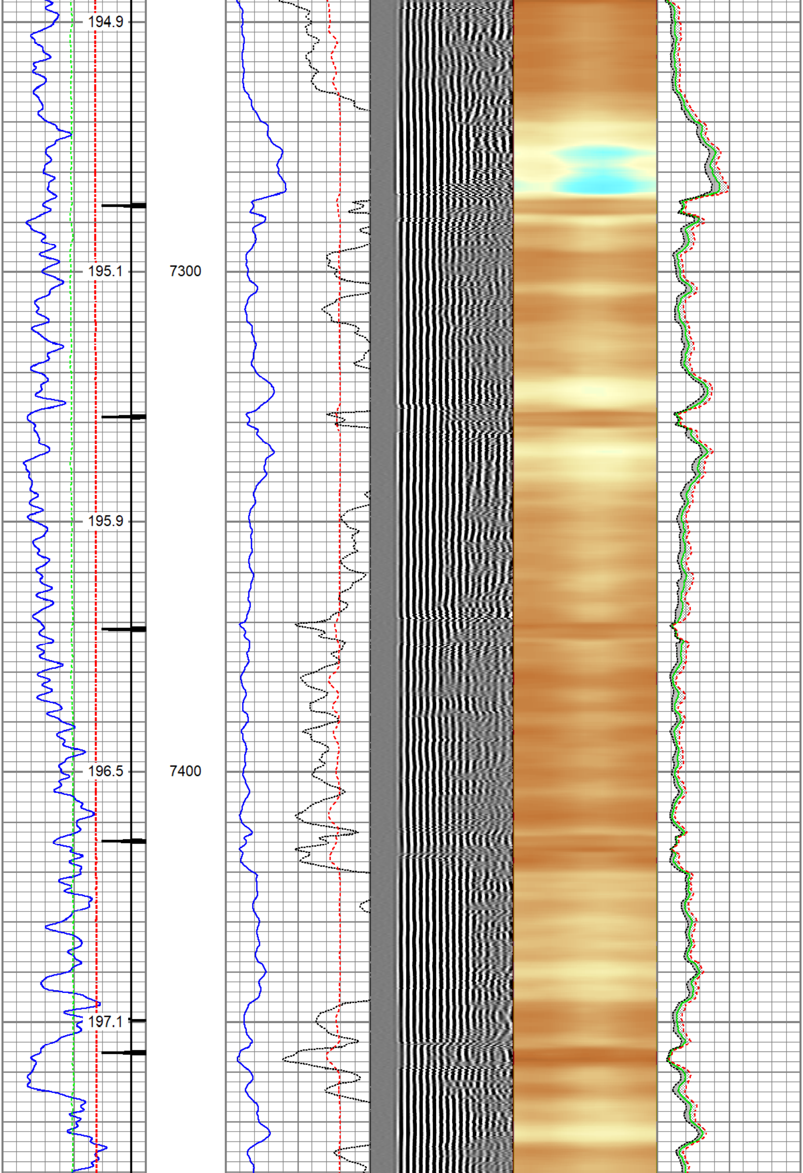
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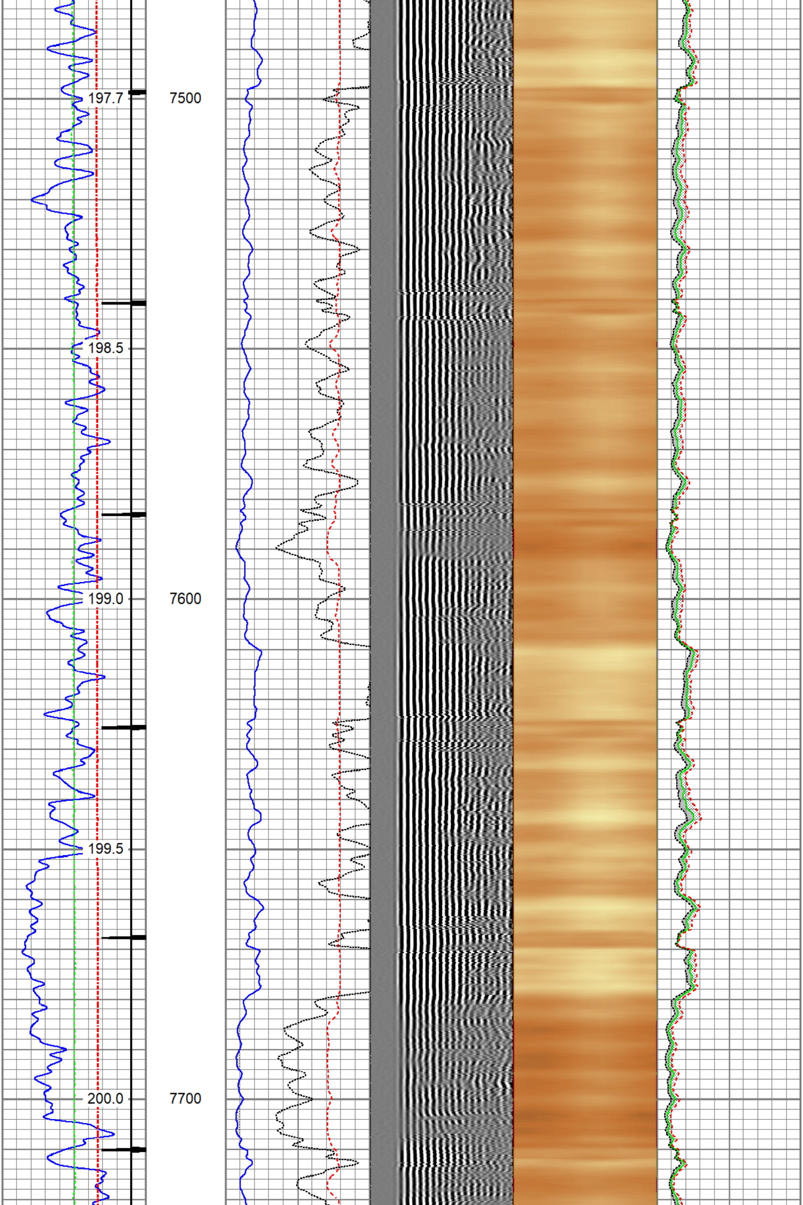
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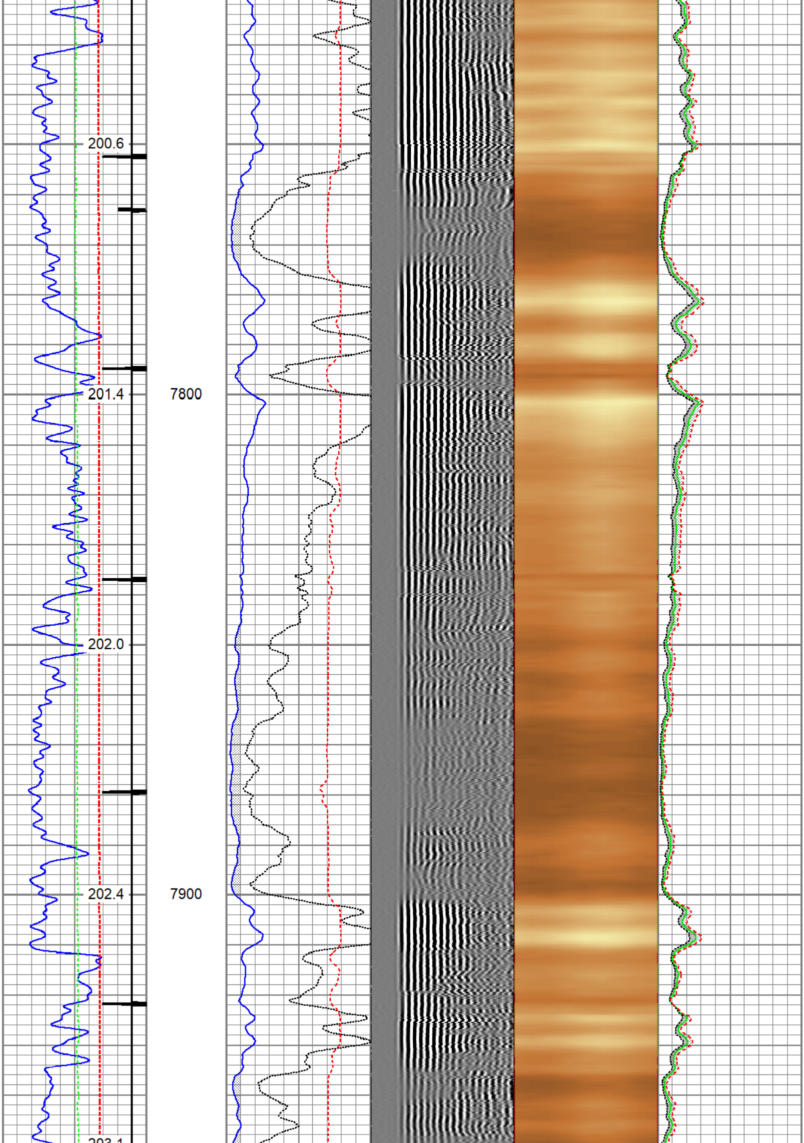

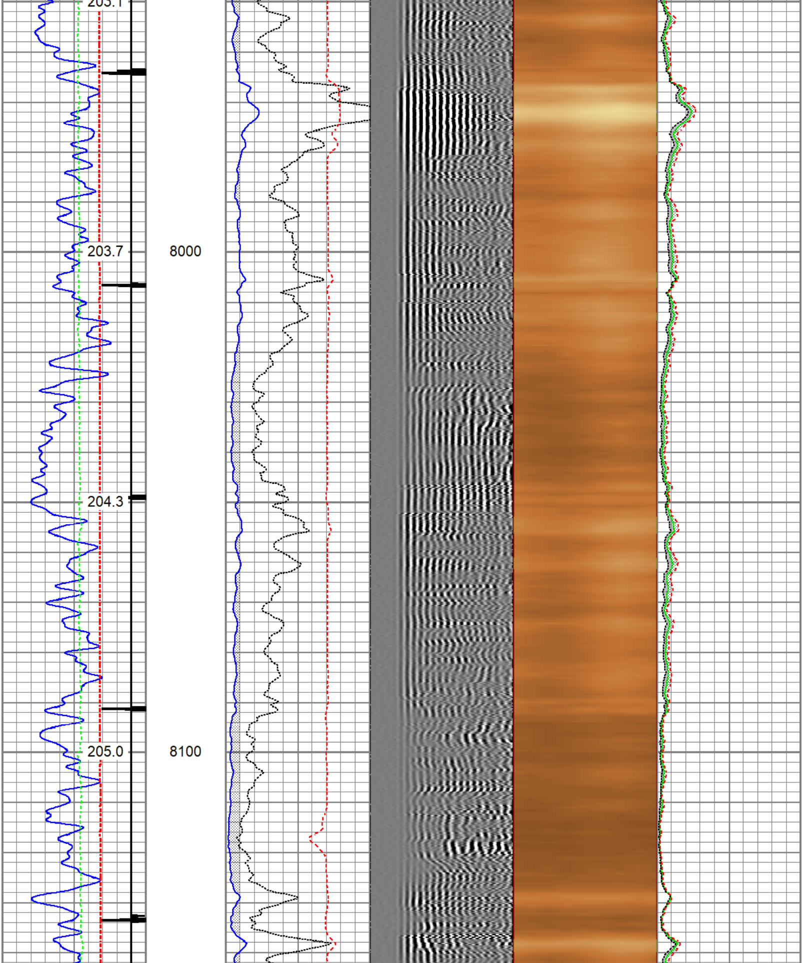

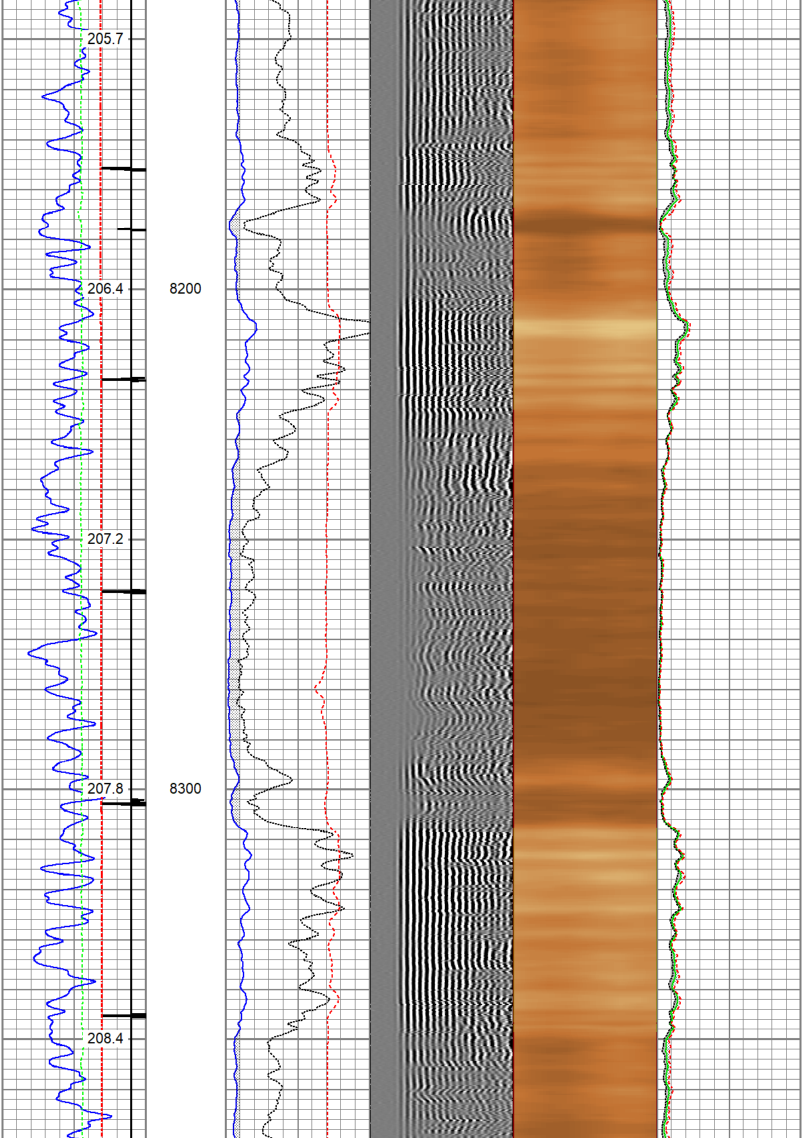

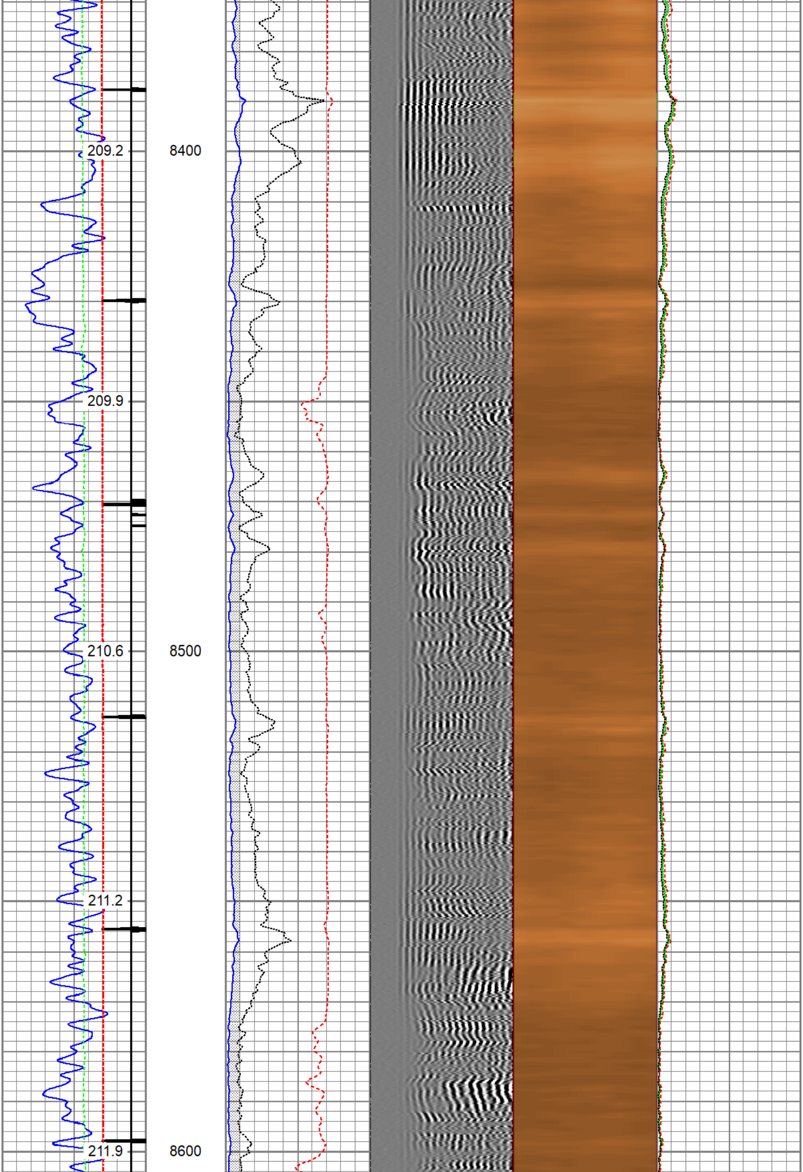

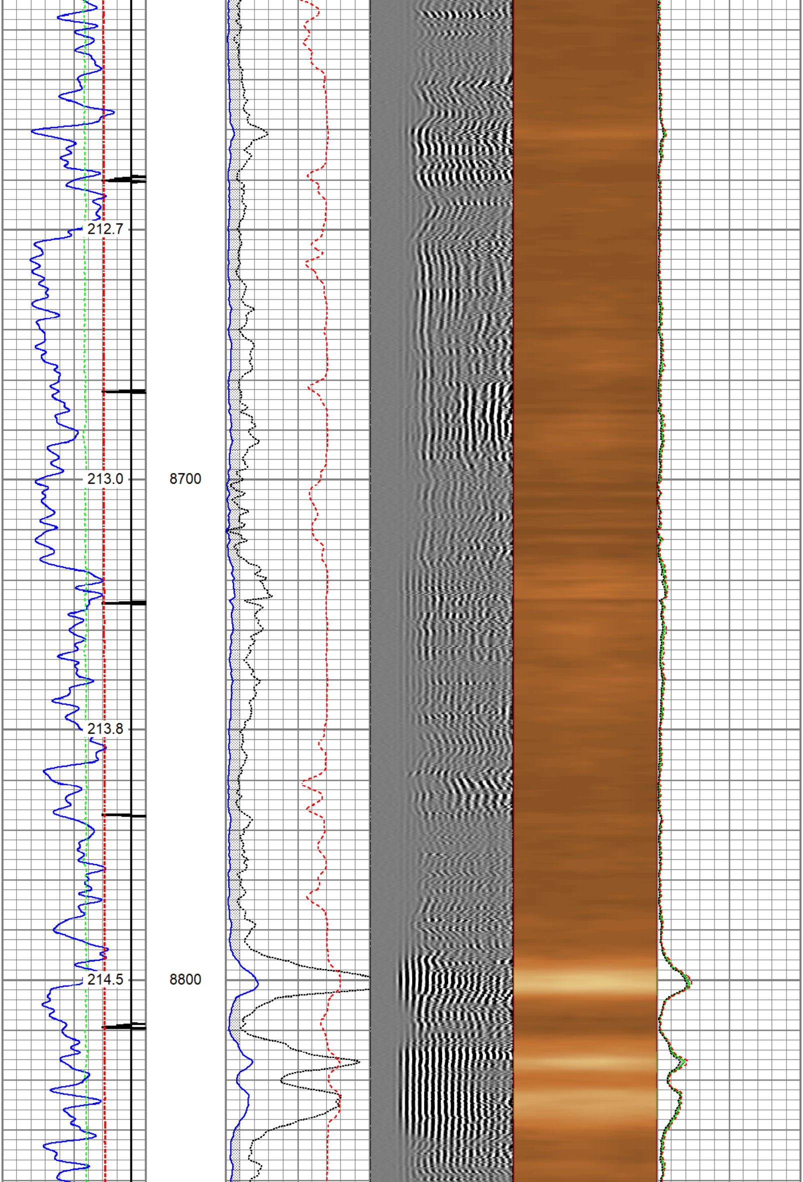

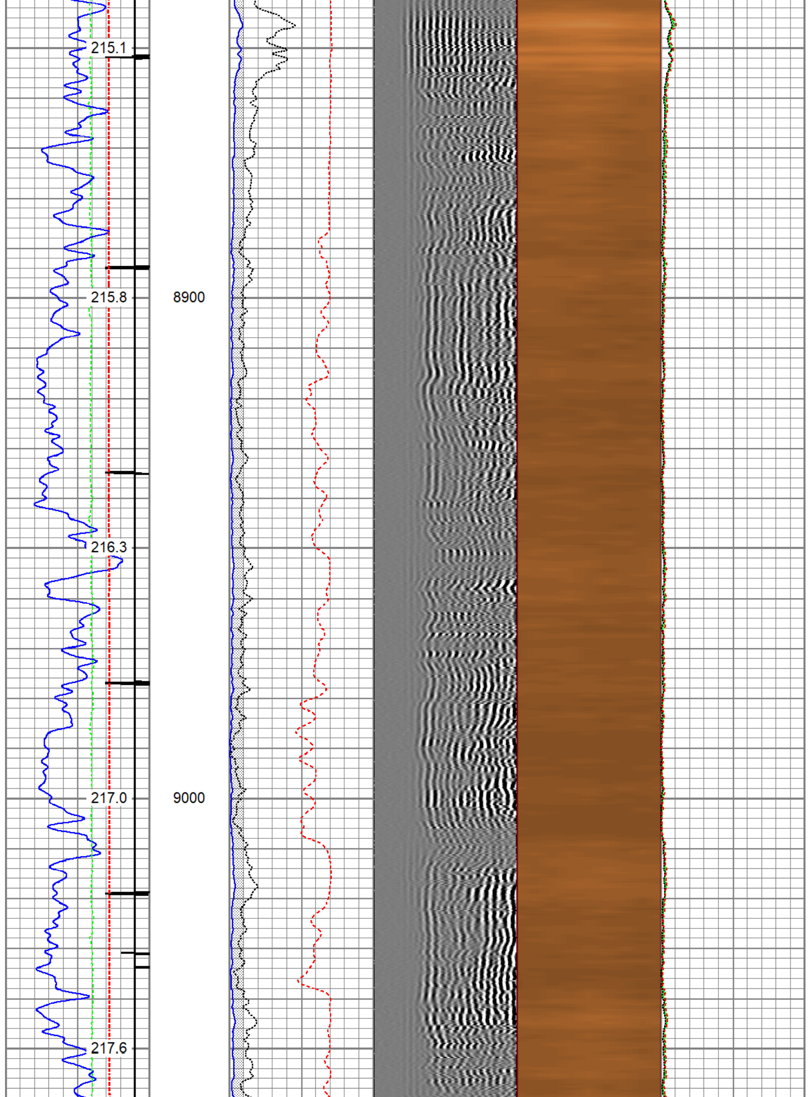

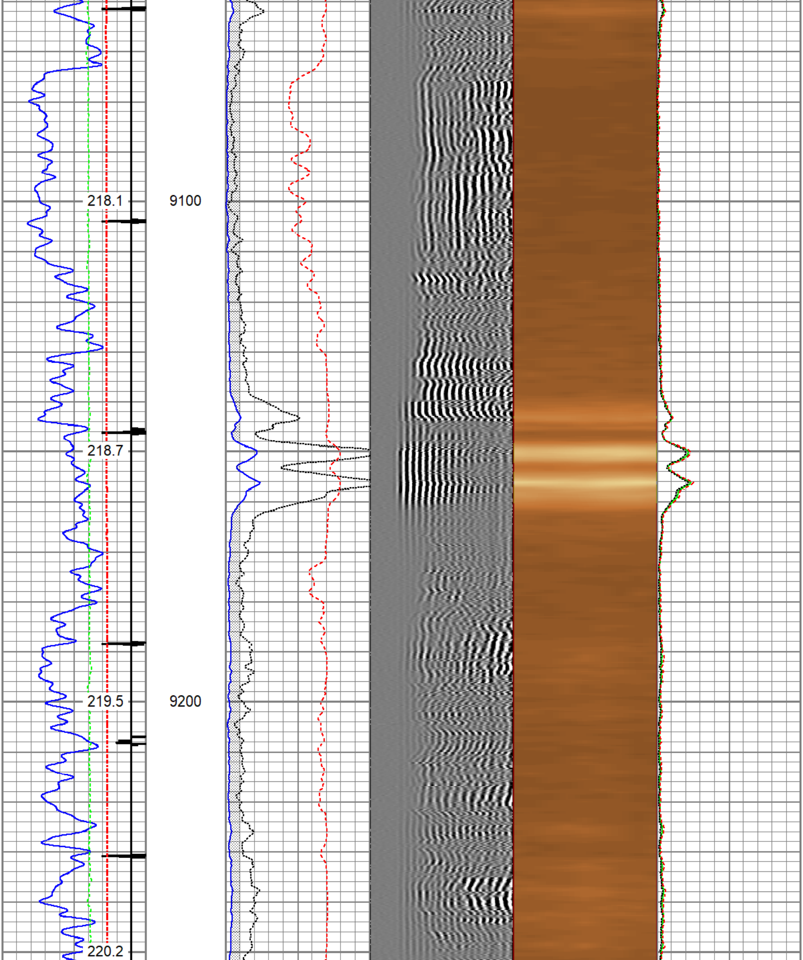

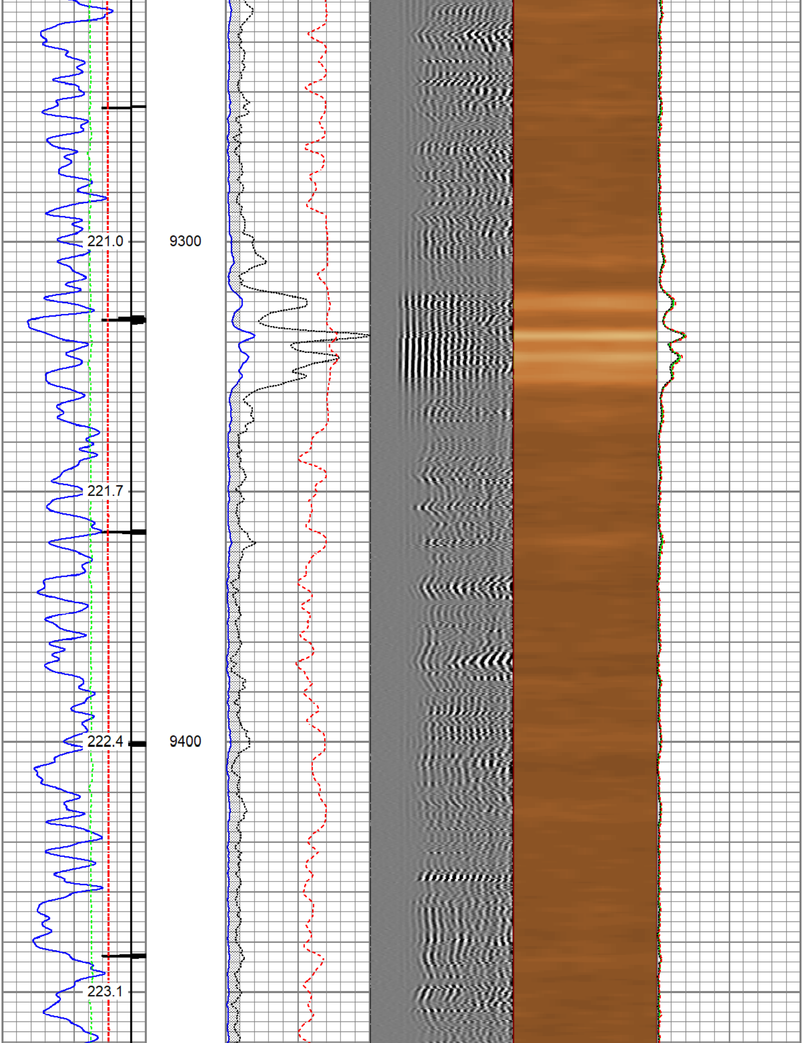

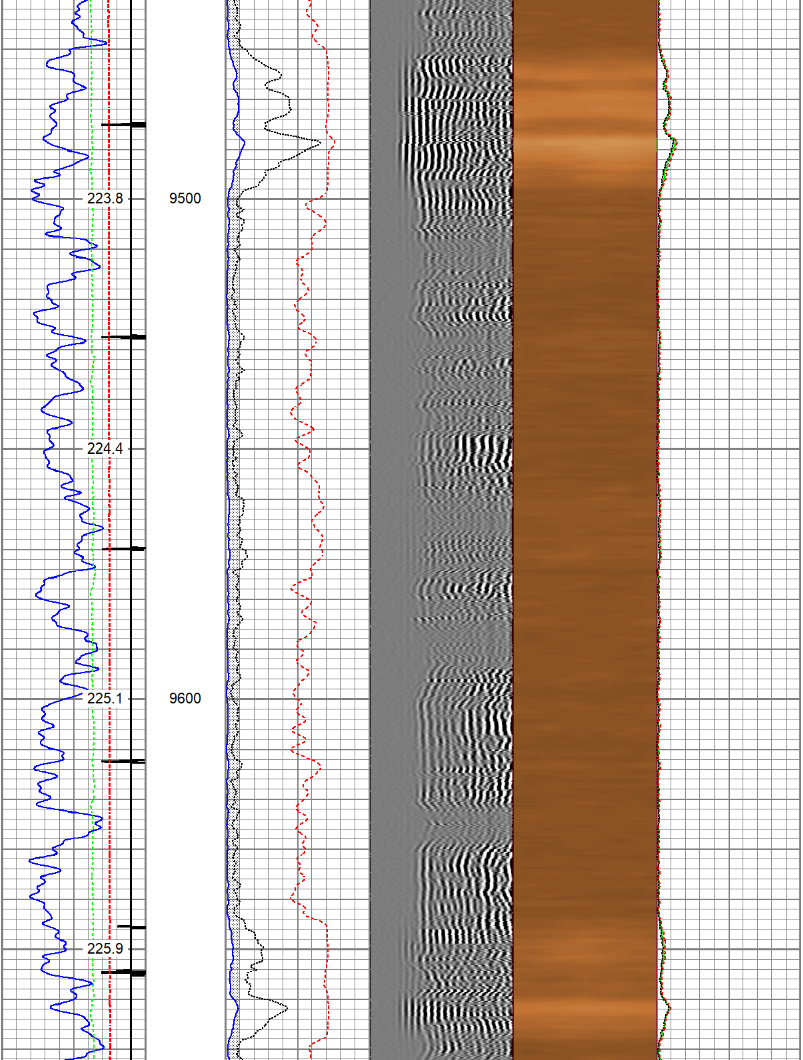

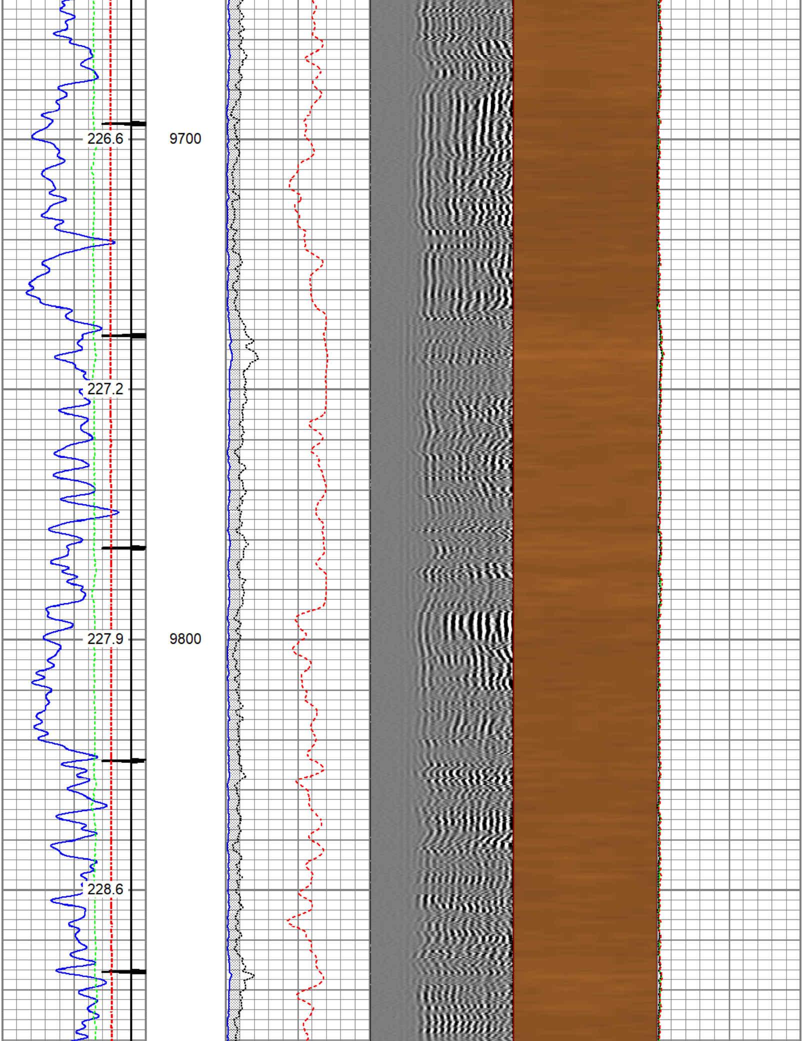

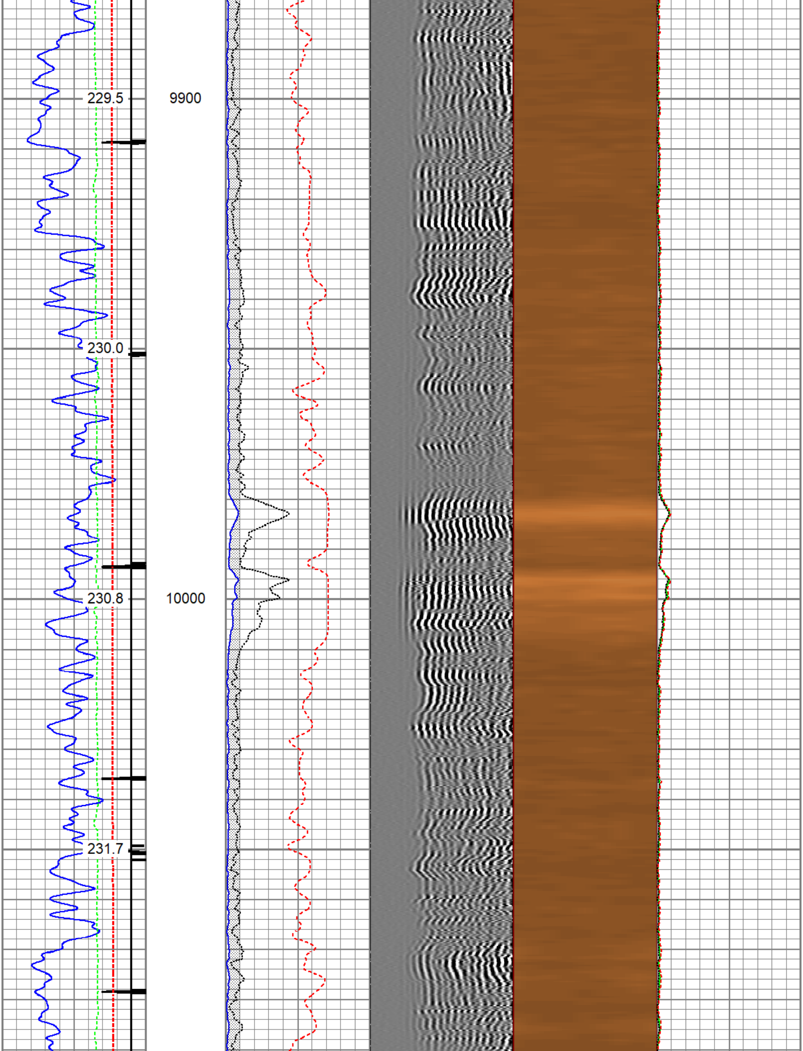

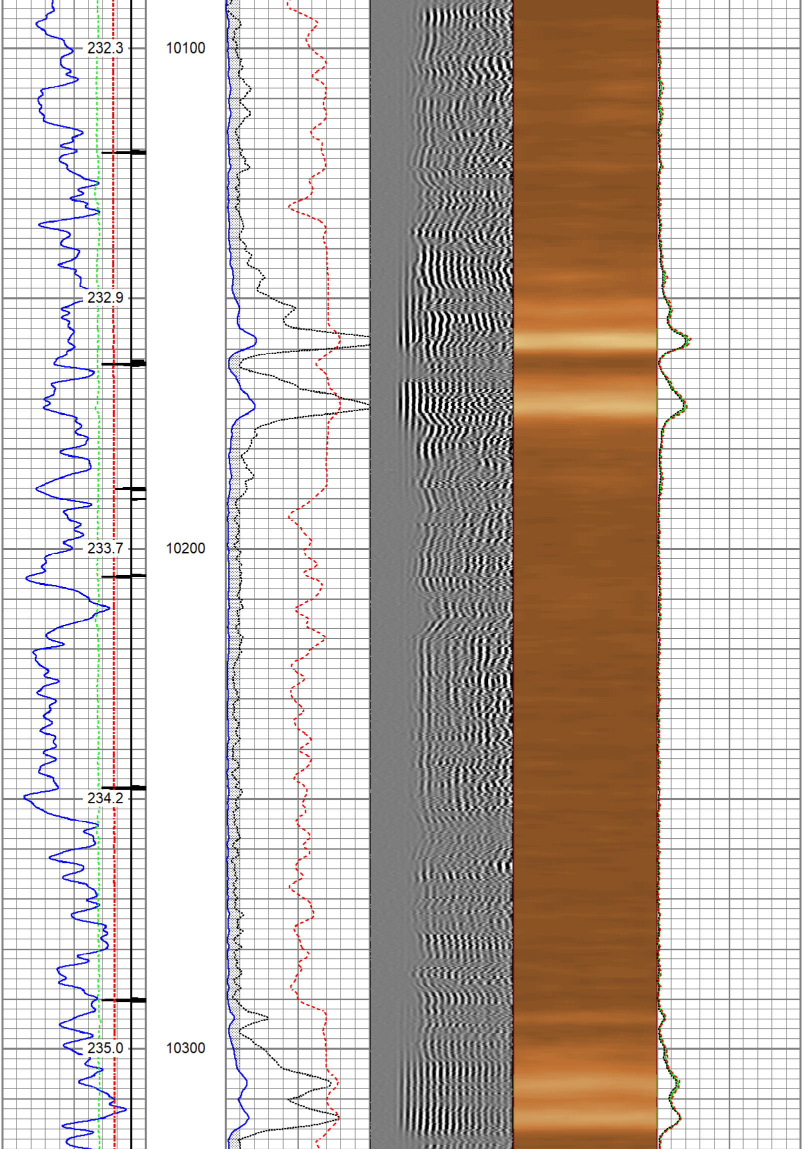

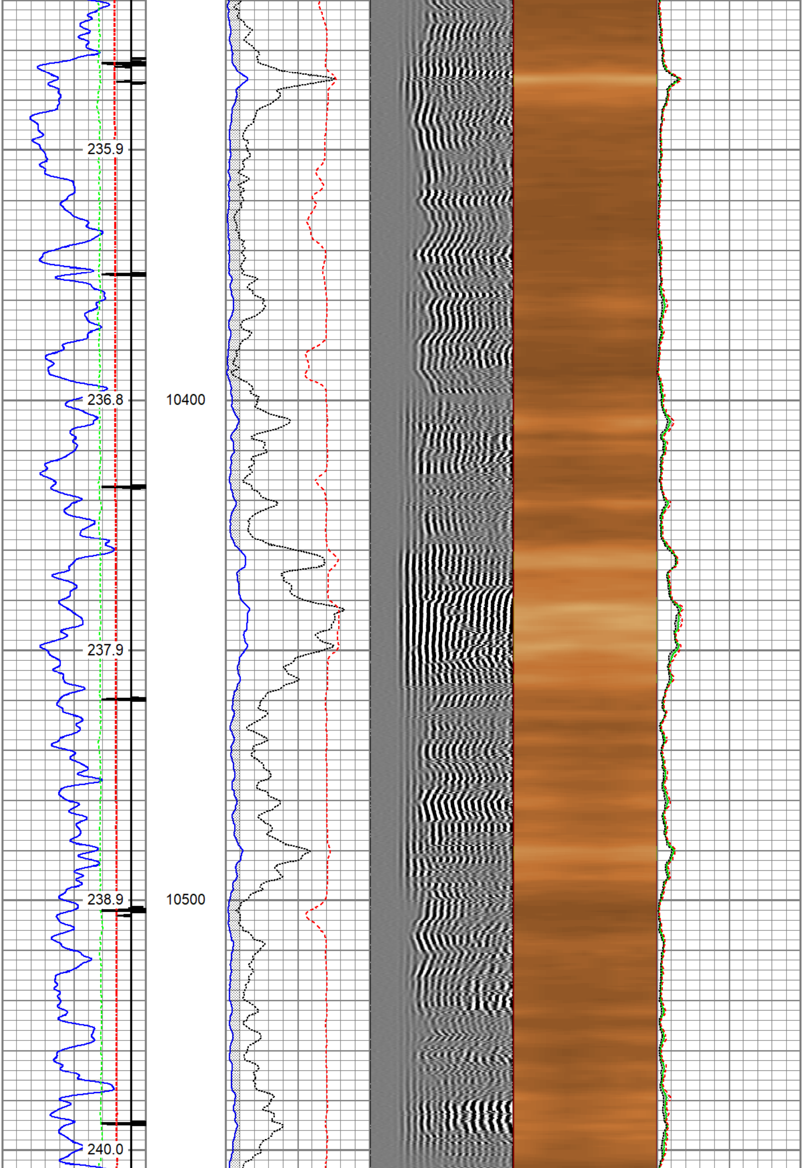

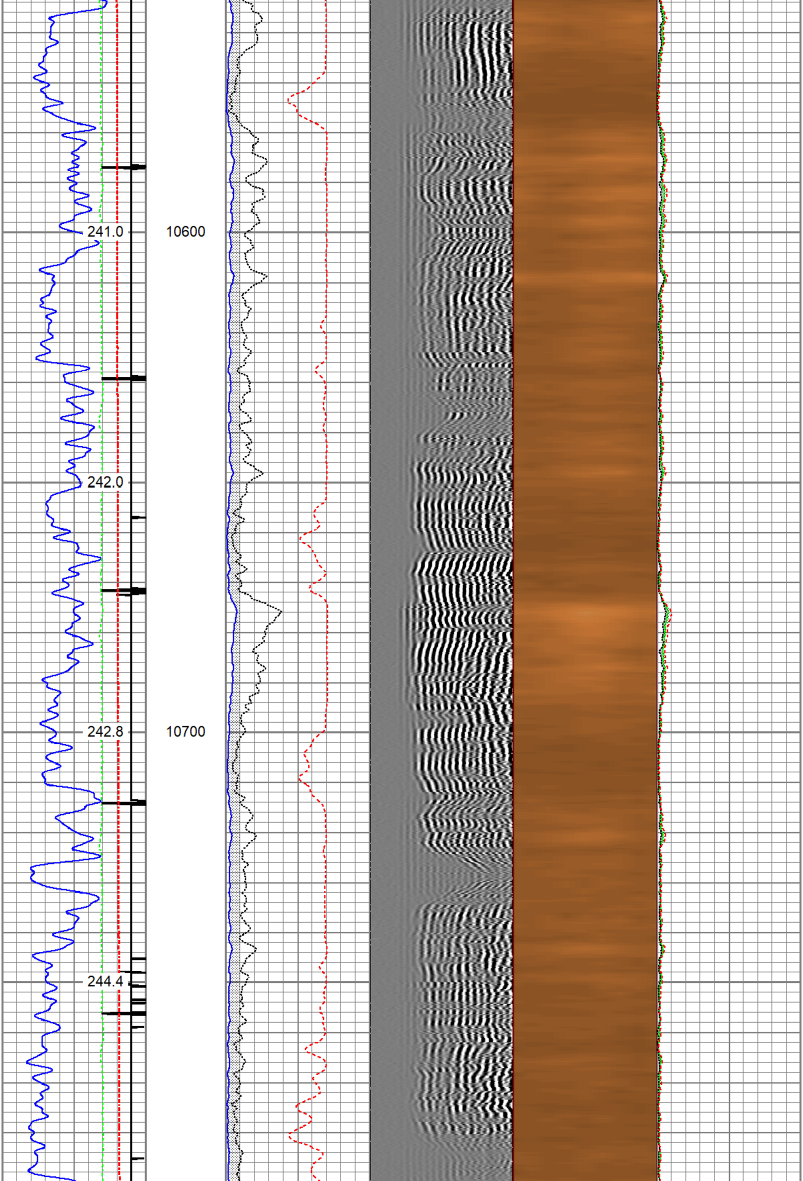

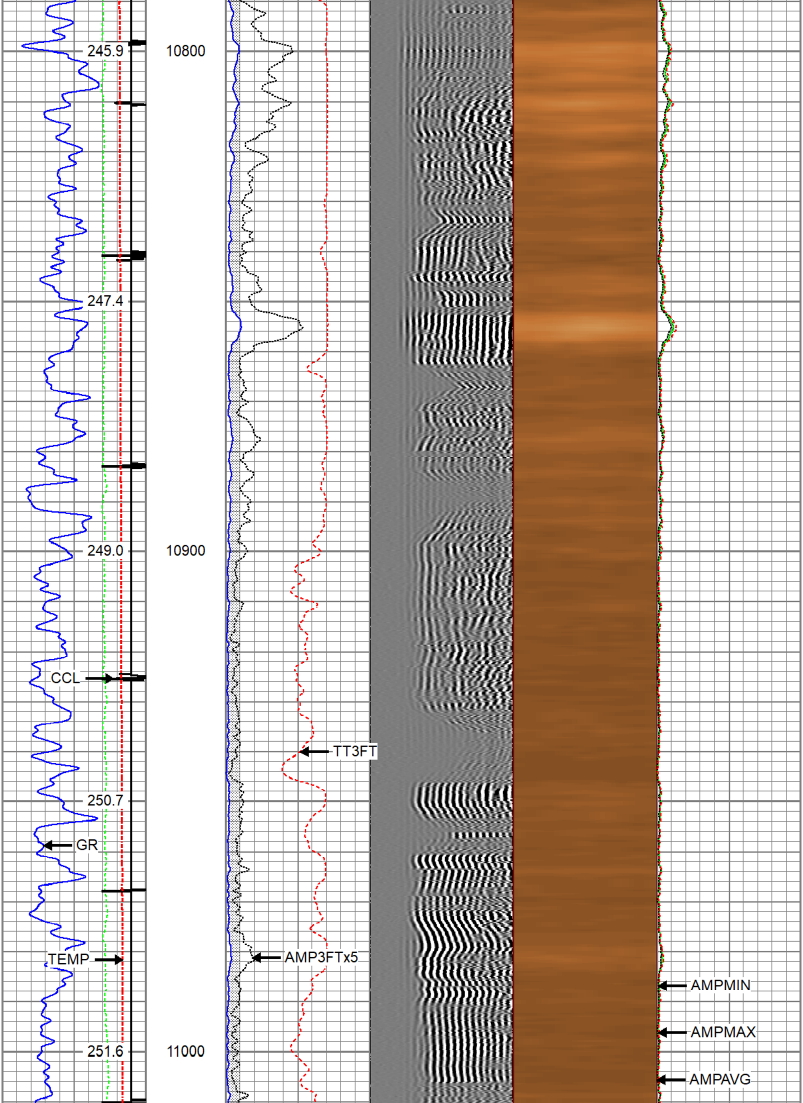

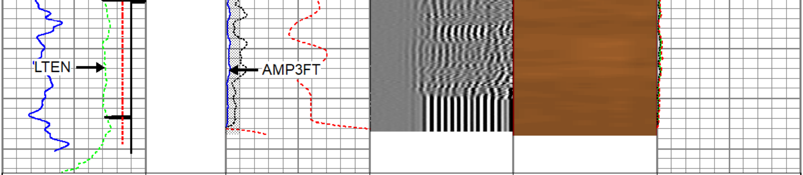

Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150		0 (mV) 100	200 (usec) 1200		0 120
Line Tension		3' Amplitude x 5			Mimimum Amplitude
0 (lb) 3000		0 (mV) 20			0 120
-9 *CCL$1* 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120

TWG
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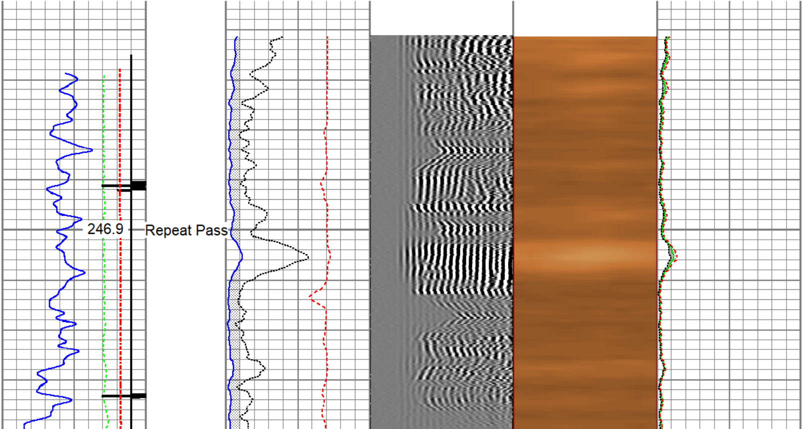
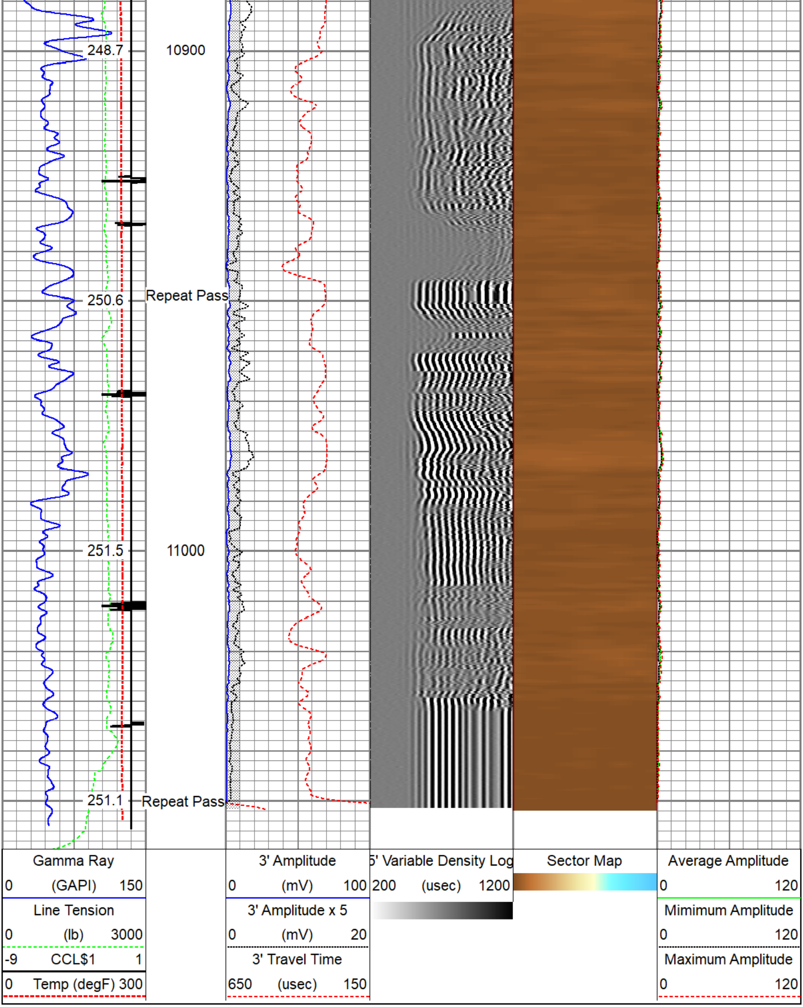
GROUP

Repeat Pass 5" = 100' (0 PSI)

Database File	terra_rg_512-18-297_rcbl\terra_rg_512-18-297_rcbl.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Fri Jul 12 08:03:57 2024
Charted by	Depth in Feet scaled 1:240

Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150		0 (mV) 100	200 (usec) 1200		0 120
Line Tension		3' Amplitude x 5			Mimimum Amplitude
0 (lb) 3000		0 (mV) 20			0 120
-9 CCL$1 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120





Calibration Report

Database File	c:\programdata\warrior\data\terra_rg_512-18-297_rcbl\terra_rg_512-18-297_rcbl.db
Dataset Pathname	main1
Dataset Creation	Fri Jul 12 08:07:59 2024

Gamma Ray Calibration Report

Serial Number:	FW1804-049	
Tool Model:	50-GCT275-0000	
Performed:	Fri Mar 1 09:45:56 2024	
Calibrator Value:	162.3	GAPI
Background Reading:	74.8	cps
Calibrator Reading:	321.5	cps
Sensitivity:	0.6579	GAPI/cps

Inclinometer Calibration Report

Performed: Thu Feb 29 15:22:34 2024

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-934.00	918.00	-1.00	1.00	gee
Y Accelerometer	-908.00	917.00	-1.00	1.00	gee
Z Accelerometer	-15.33	-897.67	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	110433	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	172.633	ft

Master Calibration, performed Fri Jul 12 07:02:11 2024:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.014	0.769	0.250	81.196	107.230	-1.276
CAL	0.011	0.748				
5'	0.016	0.746	0.250	81.196	110.781	-1.484
SUM						
S1	0.015	0.747	0.000	100.000	136.467	-1.997
S2	0.015	0.779	0.000	100.000	130.930	-1.971
S3	0.015	0.807	0.000	100.000	126.254	-1.839
S4	0.017	0.824	0.000	100.000	123.814	-2.043
S5	0.016	0.795	0.000	100.000	128.333	-2.019
S6	0.015	0.766	0.000	100.000	133.290	-2.060
S7	0.015	0.757	0.000	100.000	134.737	-1.959
S8	0.016	0.750	0.000	100.000	136.150	-2.129

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.011	0.748	1.000	0.000

Air Zero Calibration, performed Fri Jul 12 07:02:55 2024:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.013	0.000	0.001
5'	0.015	0.000	0.001
SUM			

S1	0.014	0.000	0.001
S2	0.014	0.000	0.001
S3	0.014	0.000	0.001
S4	0.014	0.000	0.002
S5	0.014	0.000	0.001
S6	0.015	0.000	0.001
S7	0.015	0.000	-0.000
S8	0.016	0.000	-0.000

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)
GCT_FMWR	14.52
mSec_Count	14.52
RBT_Status	14.52
Error_Ct	14.52
WVFS8	9.02
WVFS7	9.02
WVFS6	9.02
WVFS5	9.02
WVFS4	9.02
WVFS3	9.02
WVFS2	9.02
WVFS1	9.02
WVF3FT	9.02
WVF5FT	8.02
RBT_ACCZ	4.77
RBT_ACCY	4.77
RBT_ACCX	4.77
WVFSYNC	4.77
WVFCAL	4.77
GCT_HV	4.76
CCL$2	3.81
CCL$1	3.81
GCT_Temp	3.26
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GCT_IntTemp	1.67
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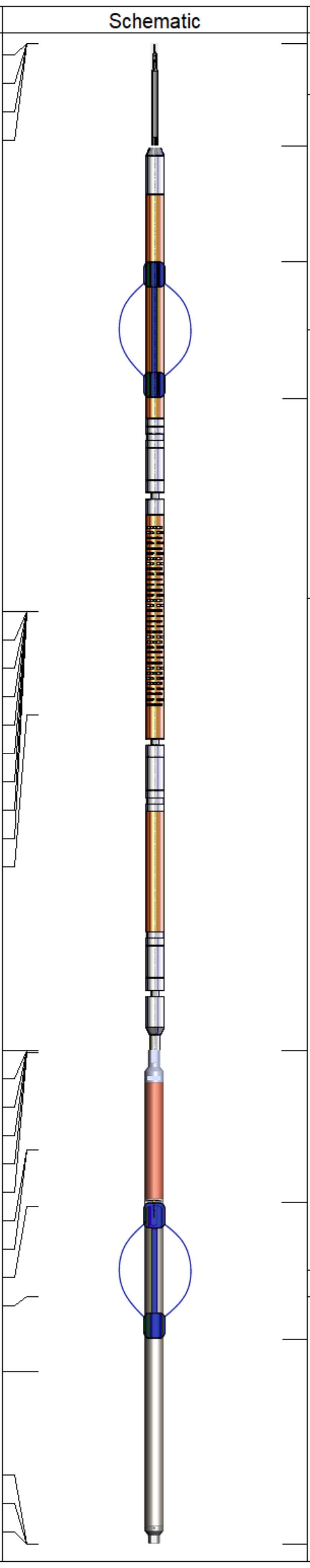
GCT_ACCY	0.00
GCT_ACCX	0.00

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb)
Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00
SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
RBT8acc-Probe275acc (110433) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
GCT_acc-50-GCT275-0000 (FW1804-049) Probe 2.75" Gamma Ray - CCL w/Temp (Single Pin)	4.77	2.75	55.00

Dataset:	terra_rg_512-18-297_rcbl.db: field/well/run1/main1
Total length:	14.52 ft
Total weight:	186.00 lb
O.D.:	3.25 in

Company	TEP Rocky Mountain LLC
Well	Federal #RG 512-18-297
Field	Sulfer Creek
County	Rio Blanco
State	Colorado

TWG
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GROUP

Radial Cement Bond
Gamma Ray
Casing Collar Log