THE WIRELINE GROUP

Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Federal #RG 13-18-297
Field	Sulfer Creek
County	Rio Blanco
State	Colorado

Company TEP Rocky Mountain LLC

Well Federal #RG 13-18-297

Field Sulfer Creek

County Rio Blanco State Colorado

Location: API # : 05-103-12579

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'
G.L. 6667'

Date	13 JULY 2024
Run Number	One
Depth Driller	11875'
Depth Logger	11800'
Bottom Logged Interval	11798'
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	Water
Density / Viscosity	8.34 Lb/Gal
Max. Recorded Temp.	259°F
Estimated Cement Top	See Log
Time Well Ready	ROA
Time Logger on Bottom	09:00
Equipment Number	8102
Location	Grand Junction
Recorded By	Vaughn
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 Casing		36	Surface	3150'
Production Casing	4.5"	11.6	Surface	11865'
Intermediate #2				
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 @ 6468' - 6475'

Thank you for choosing The Wireline Group!

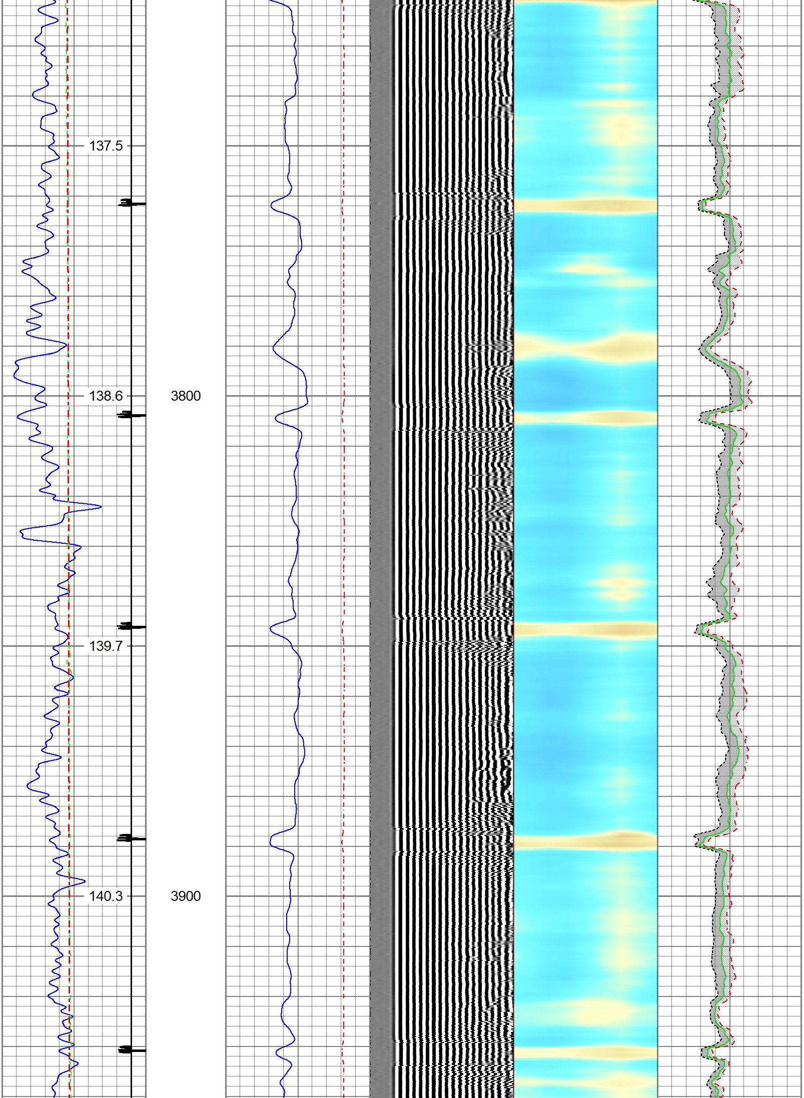
THE WIRELINE GROUP

Main Pass 5"=100'

(0 PSI)

Database File	tep_rg_13-18-297_rcbl\tep_rg_13-18-297_rcbl.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Sat Jul 13 08:50:41 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) 2000		0 (mV) 20			0 120
-9 CCL$1 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120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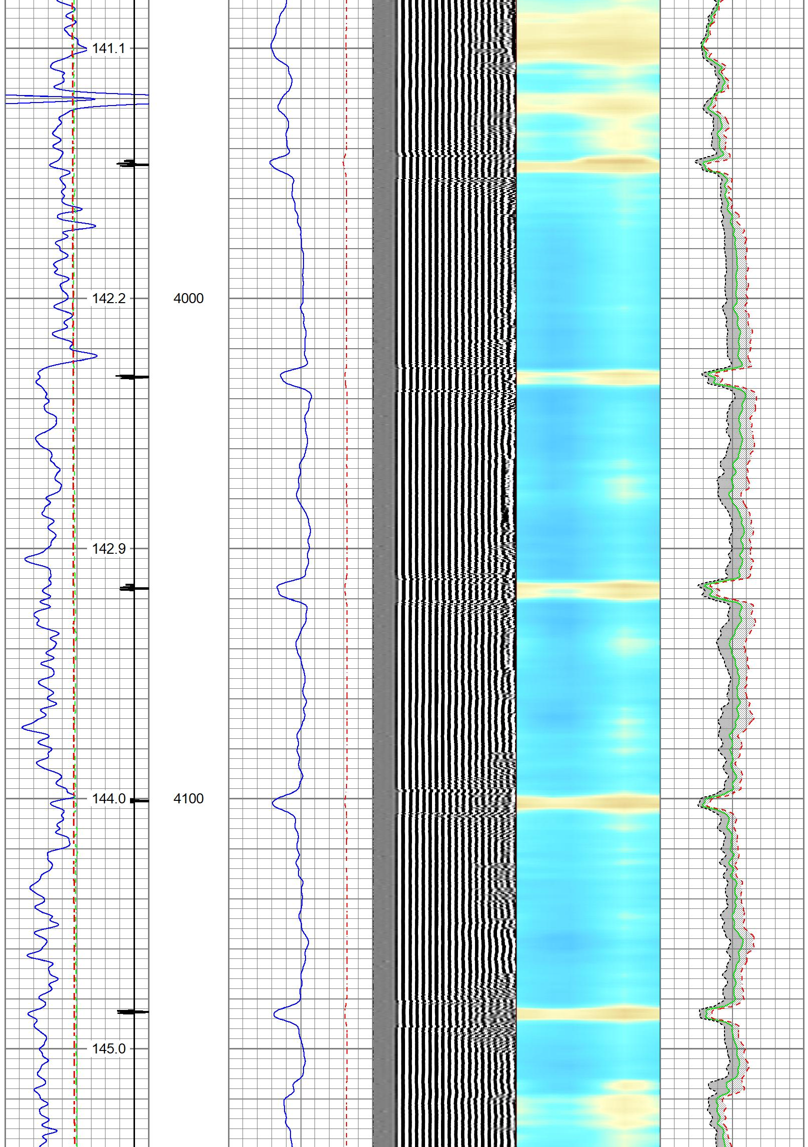
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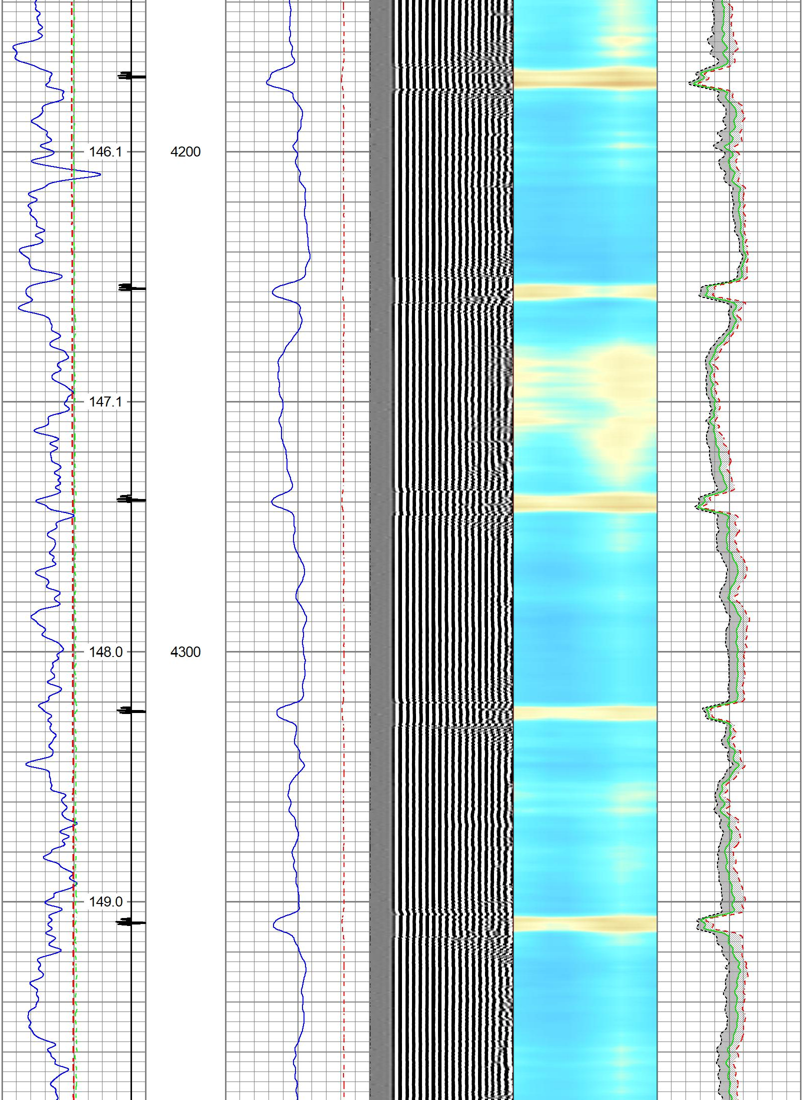
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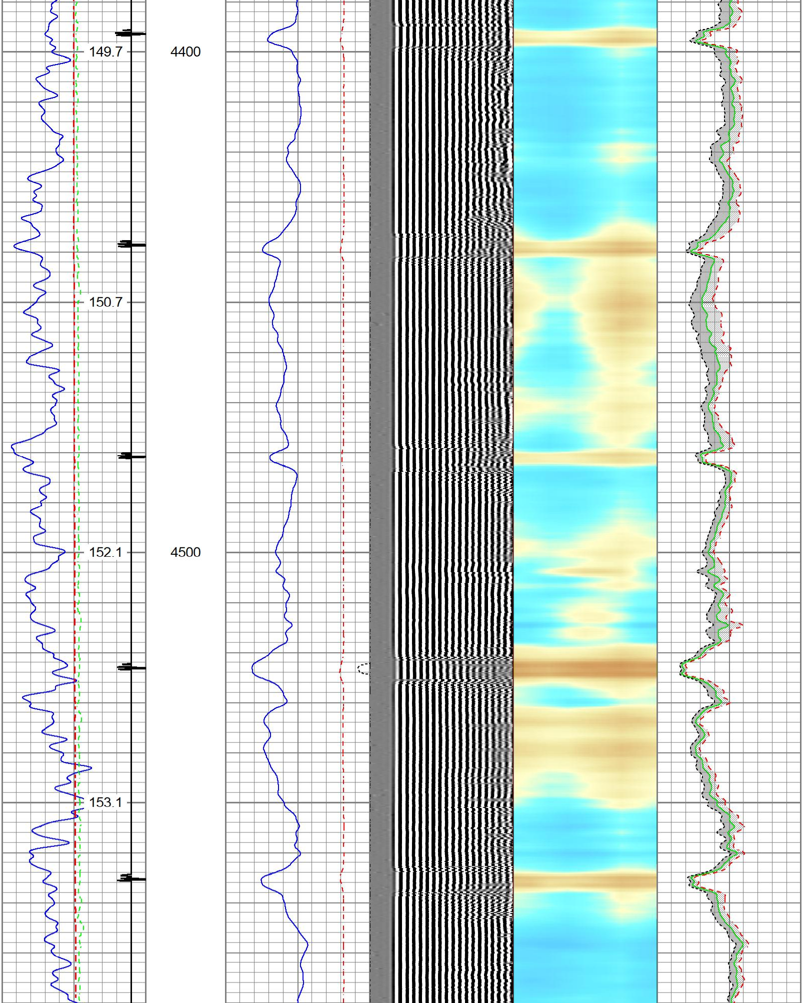
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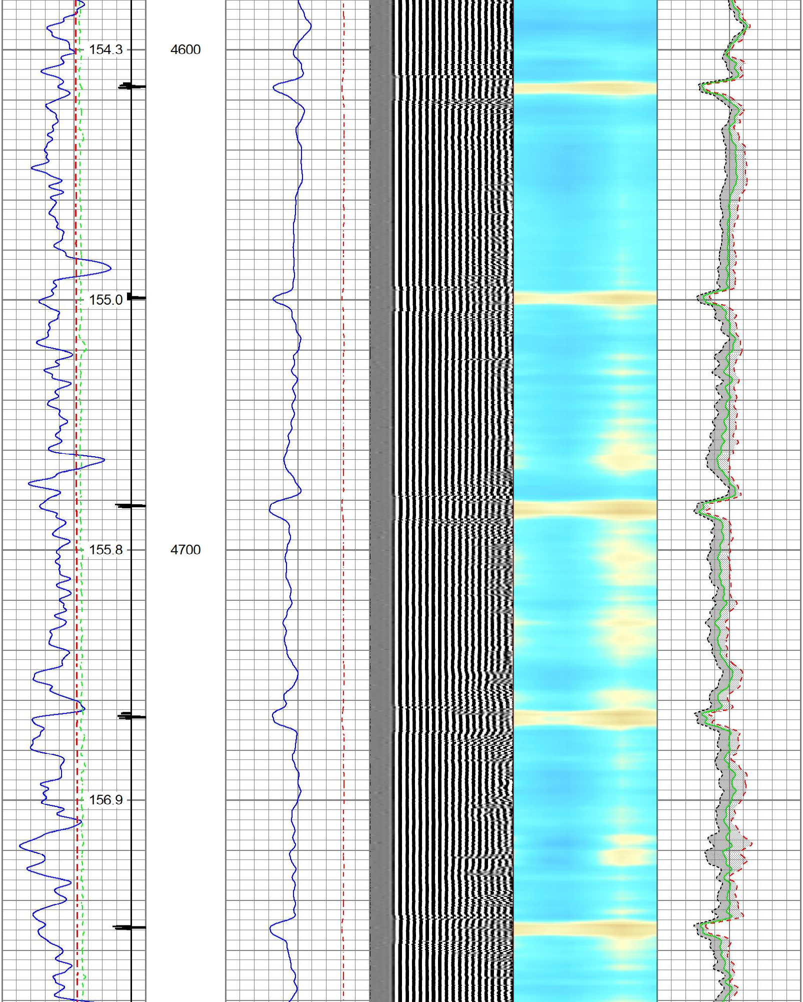
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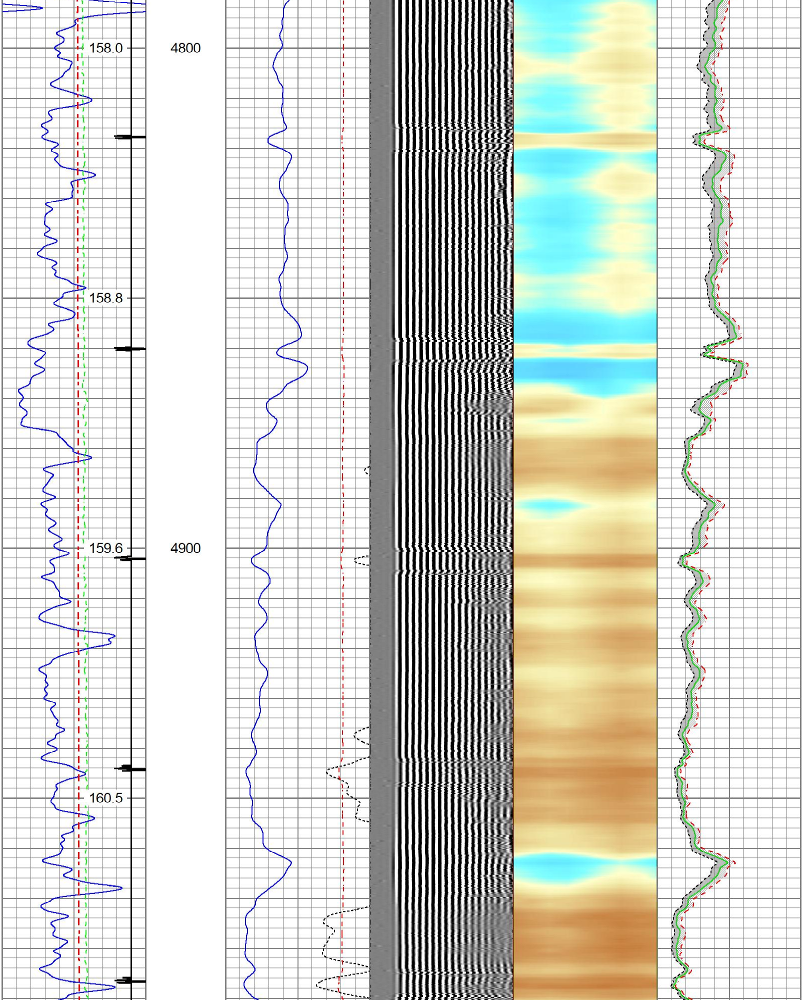
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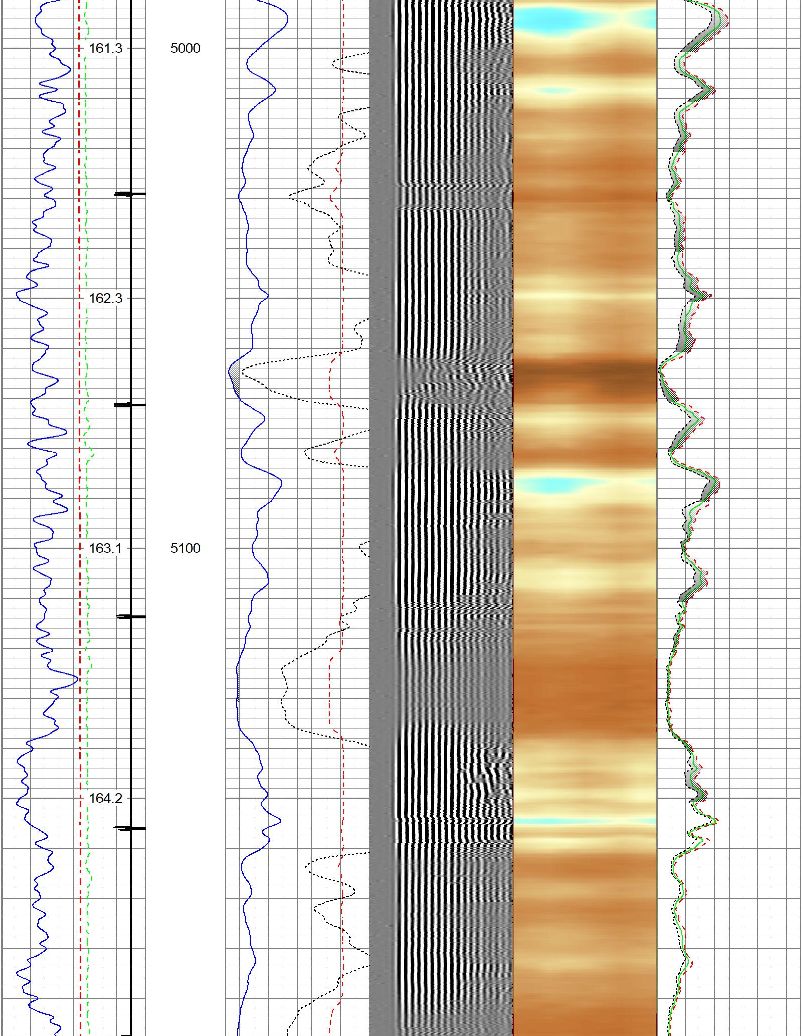
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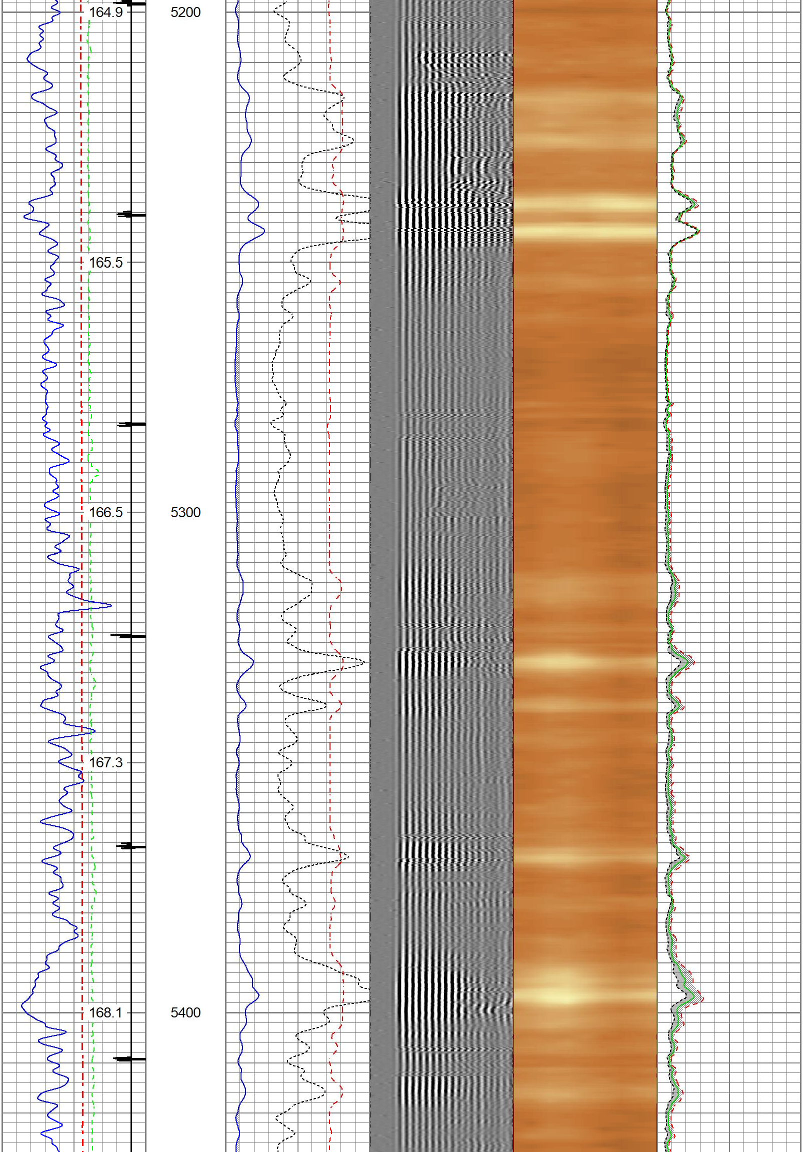
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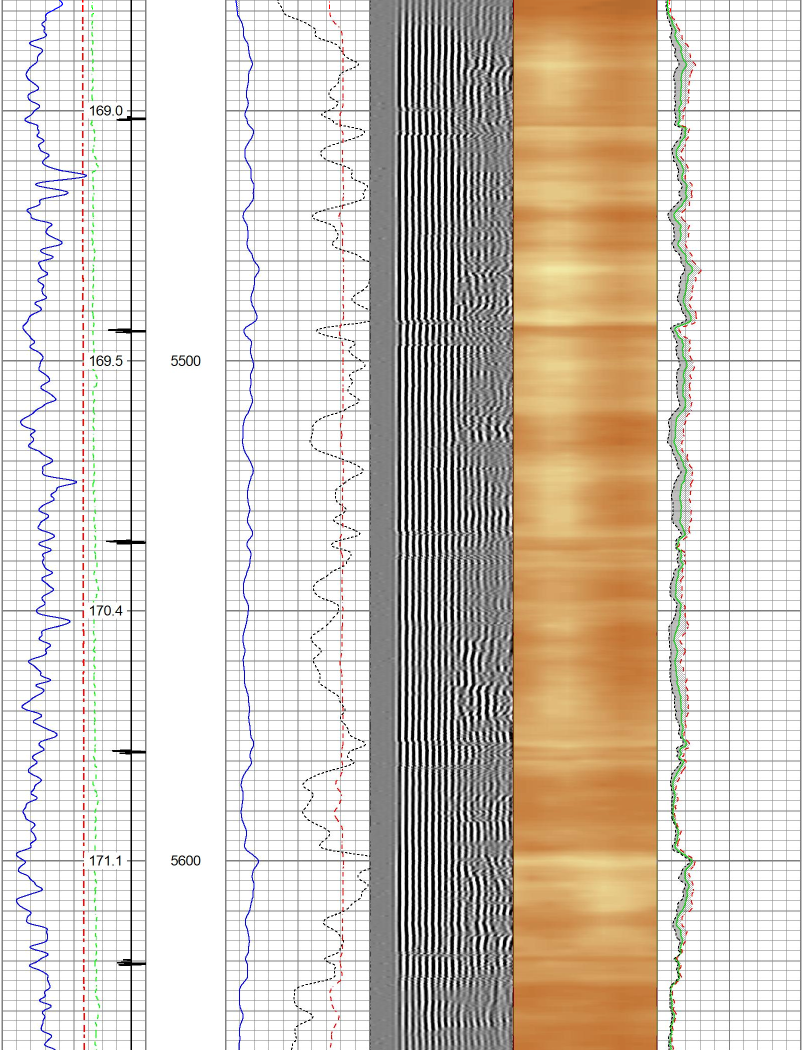
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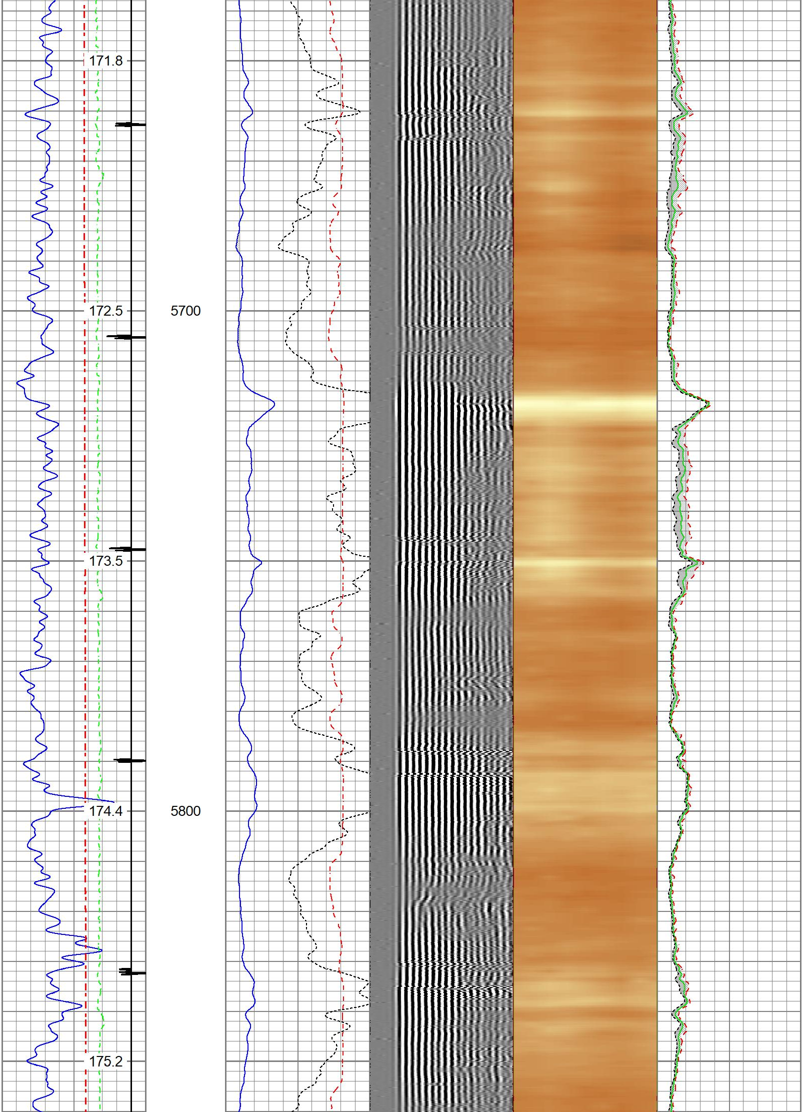
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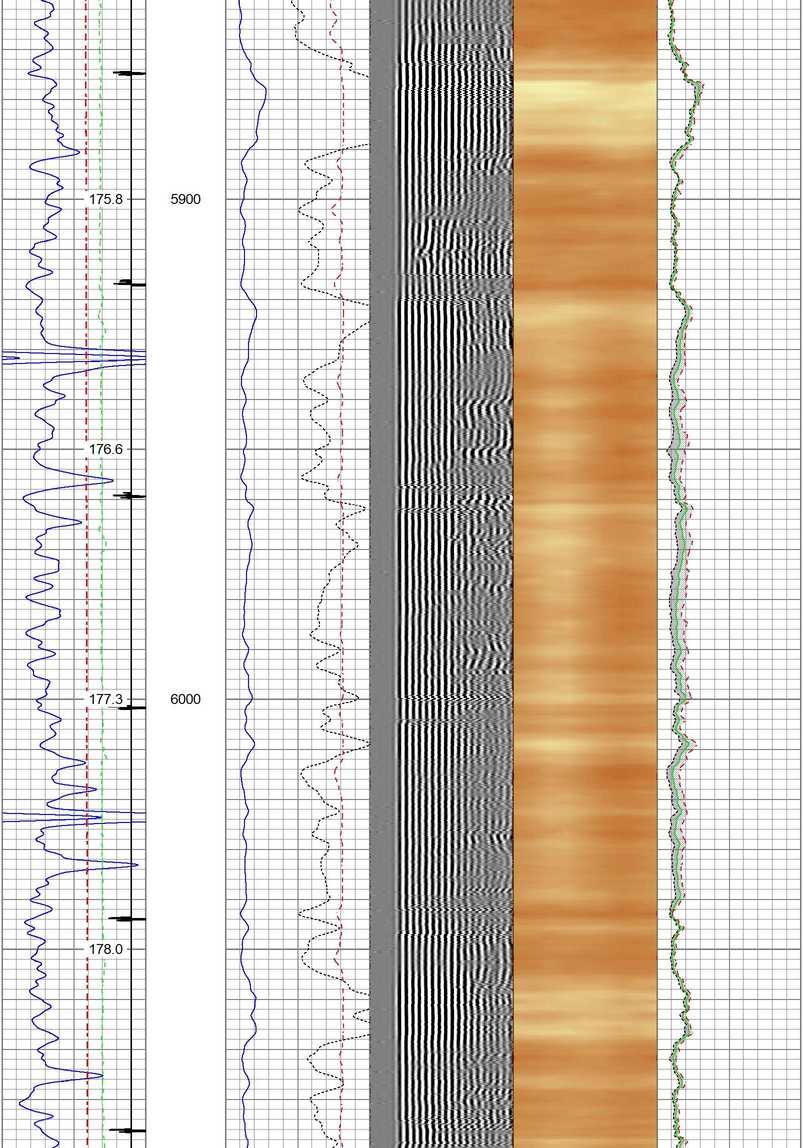
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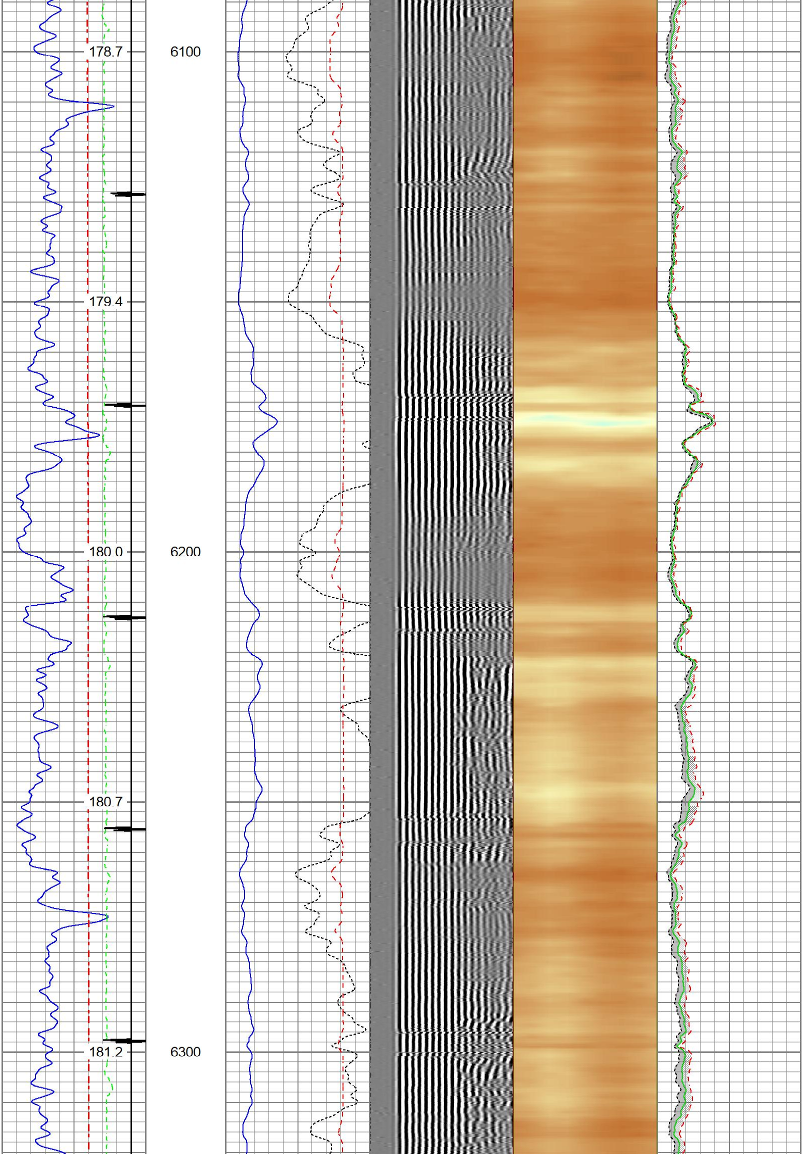
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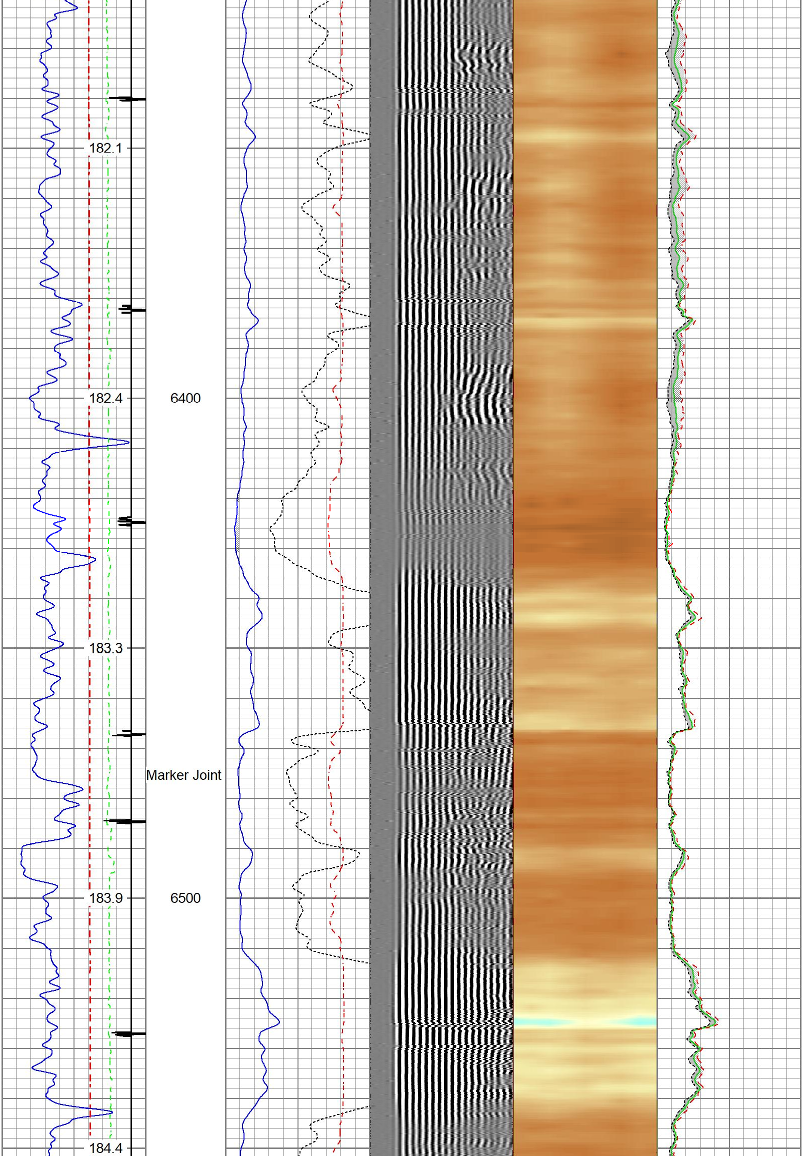
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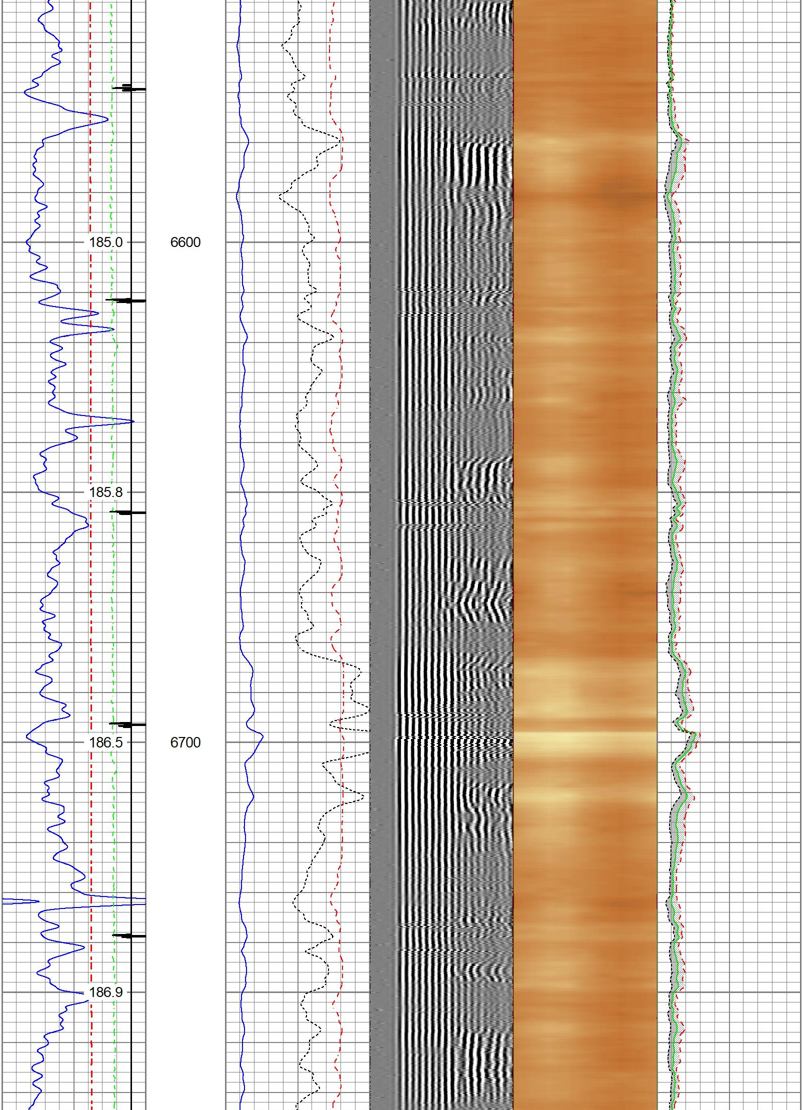
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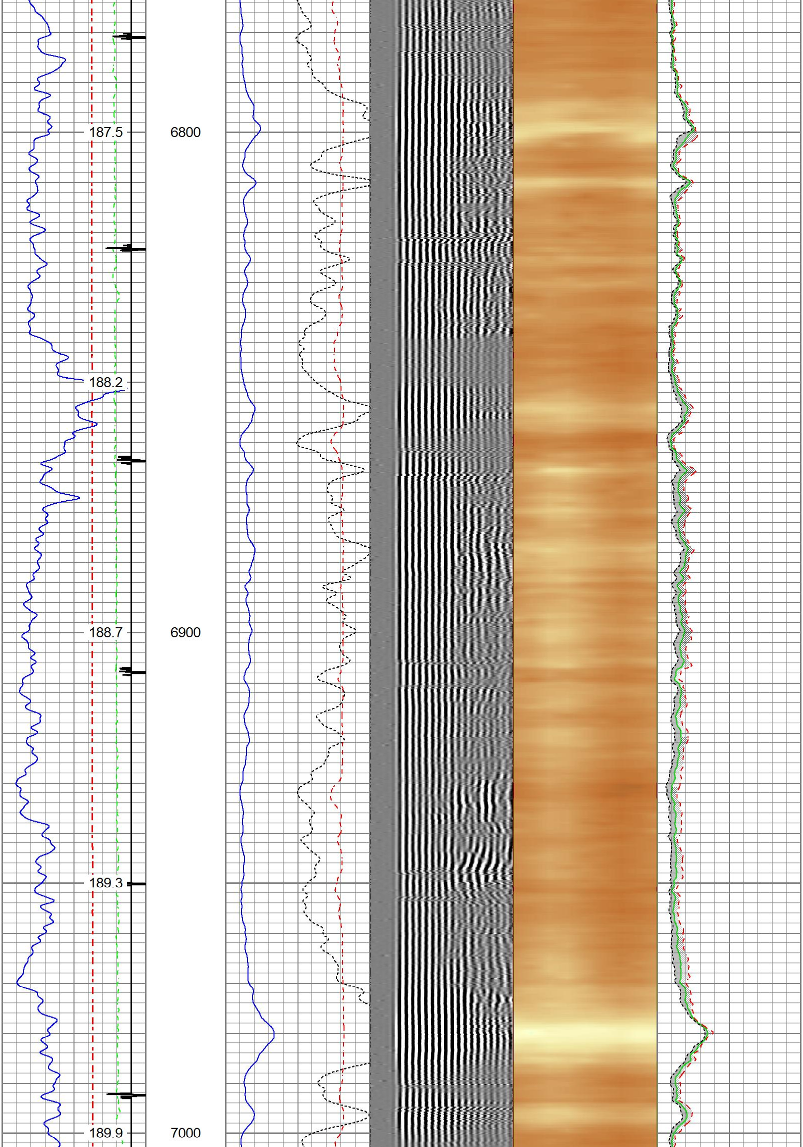
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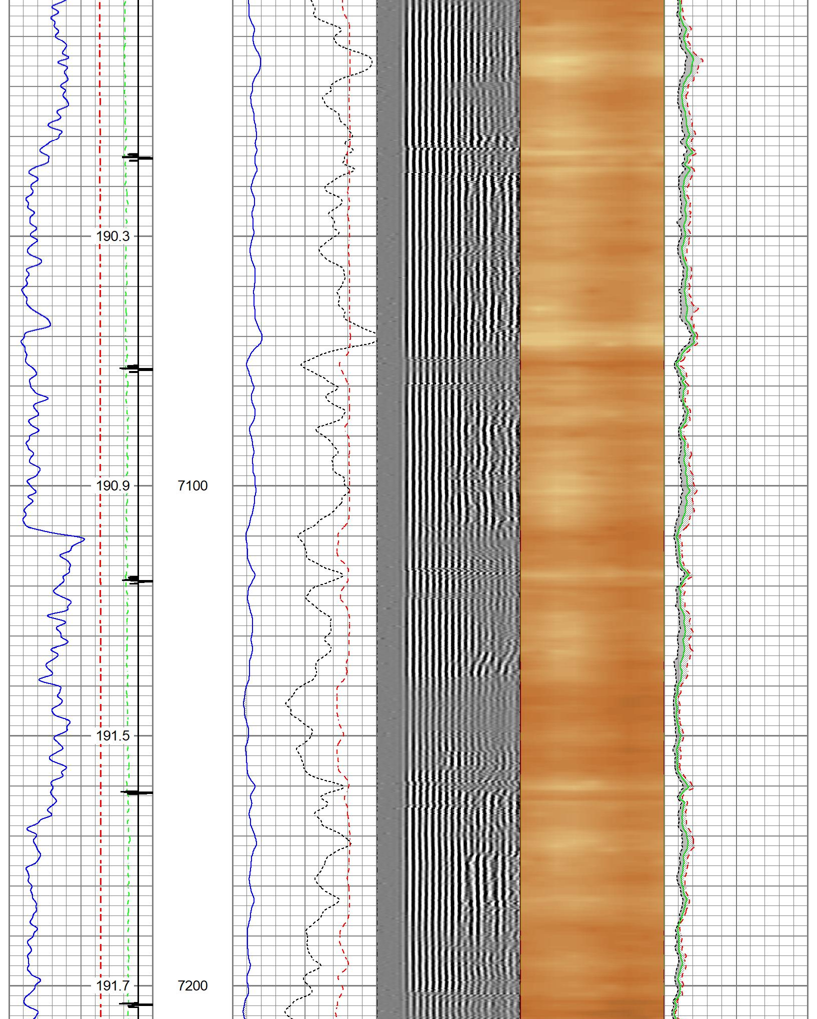
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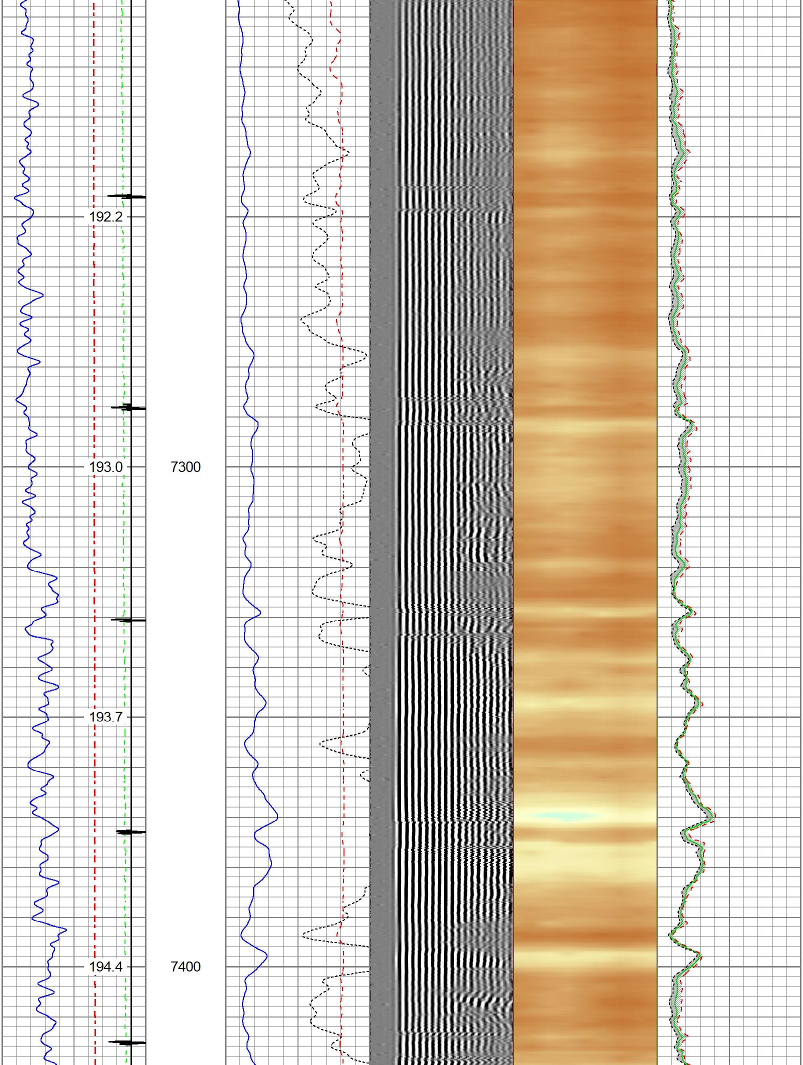
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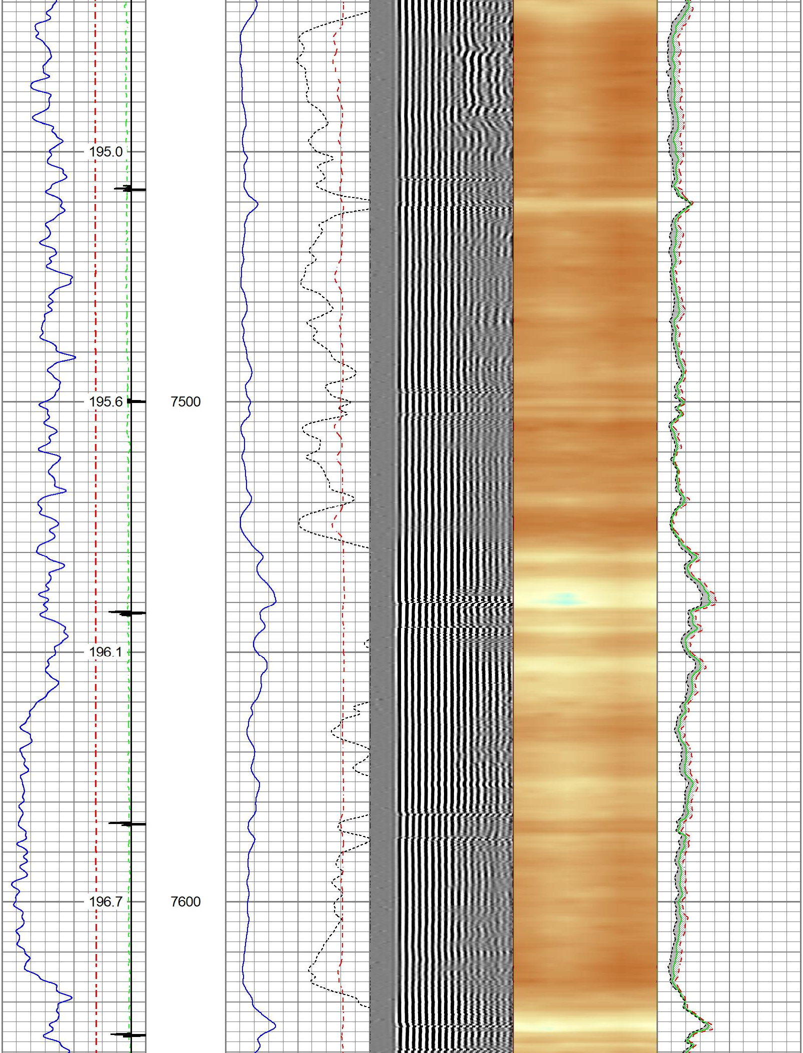
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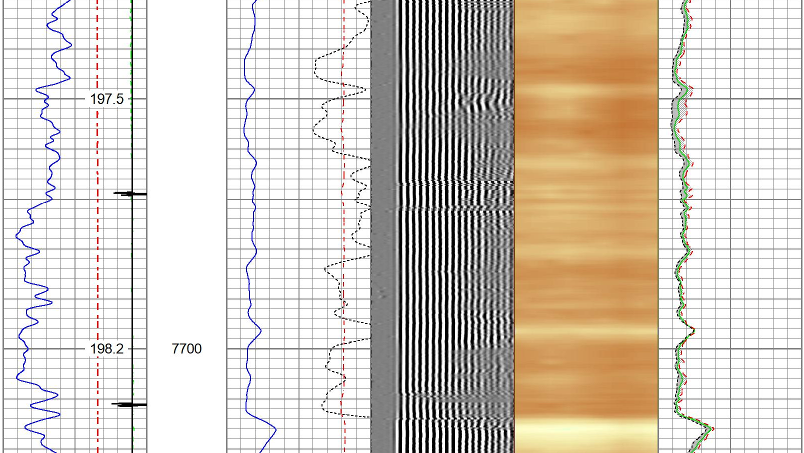
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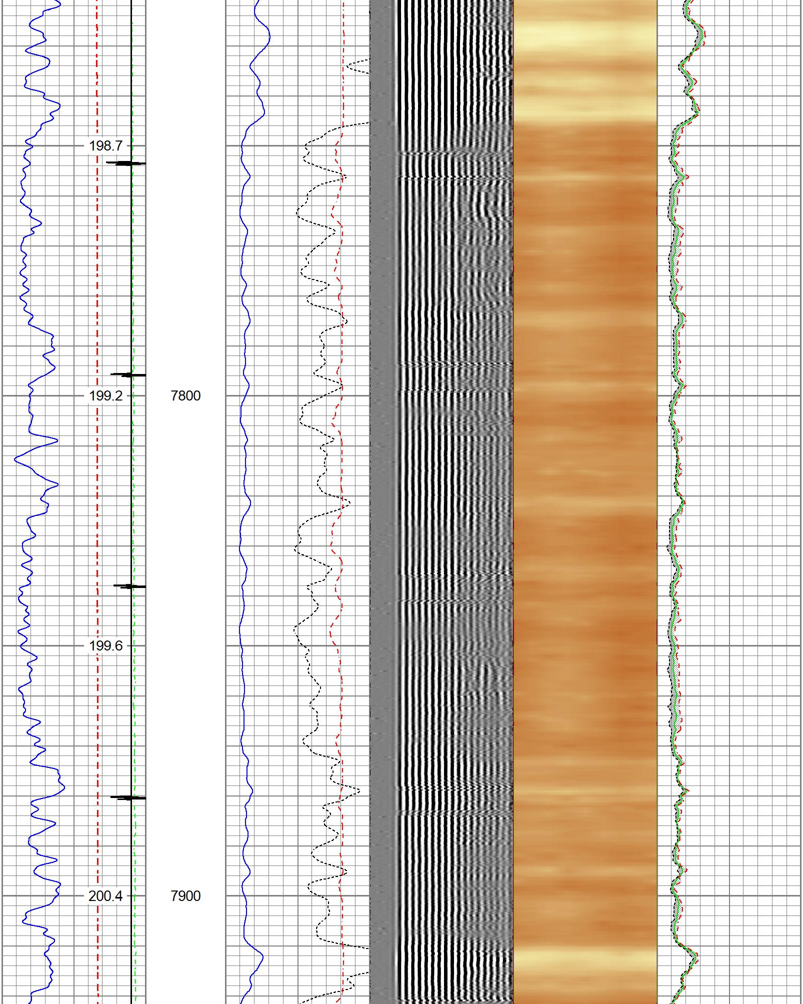
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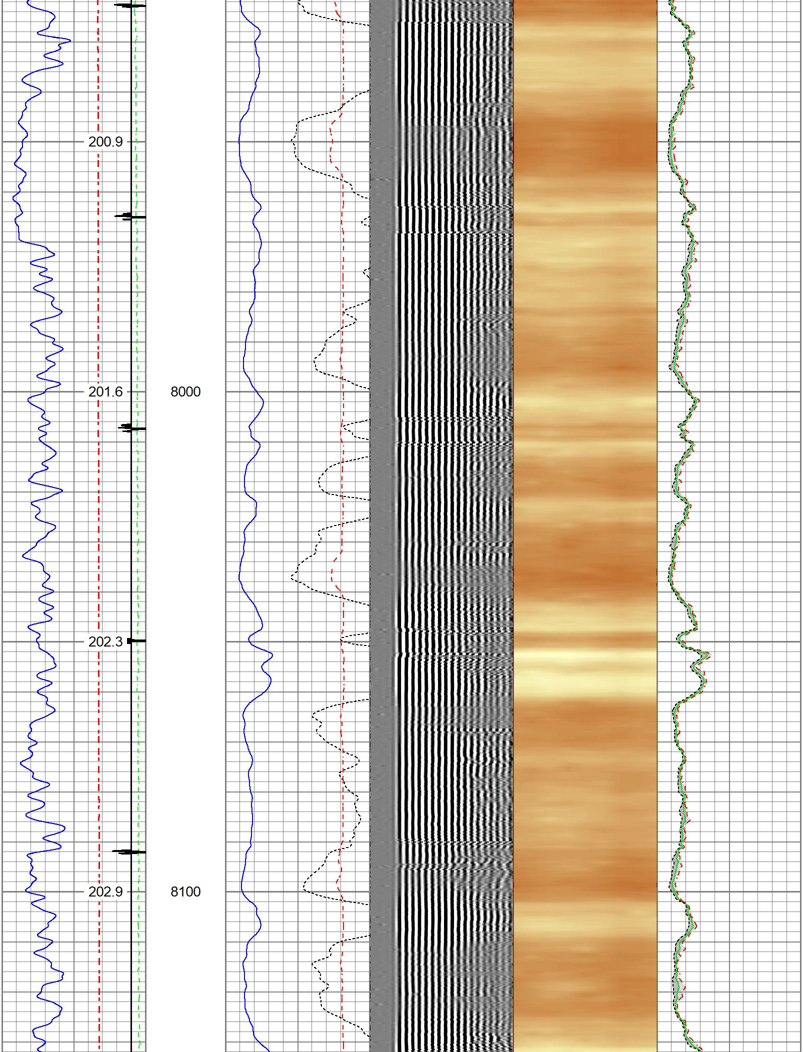
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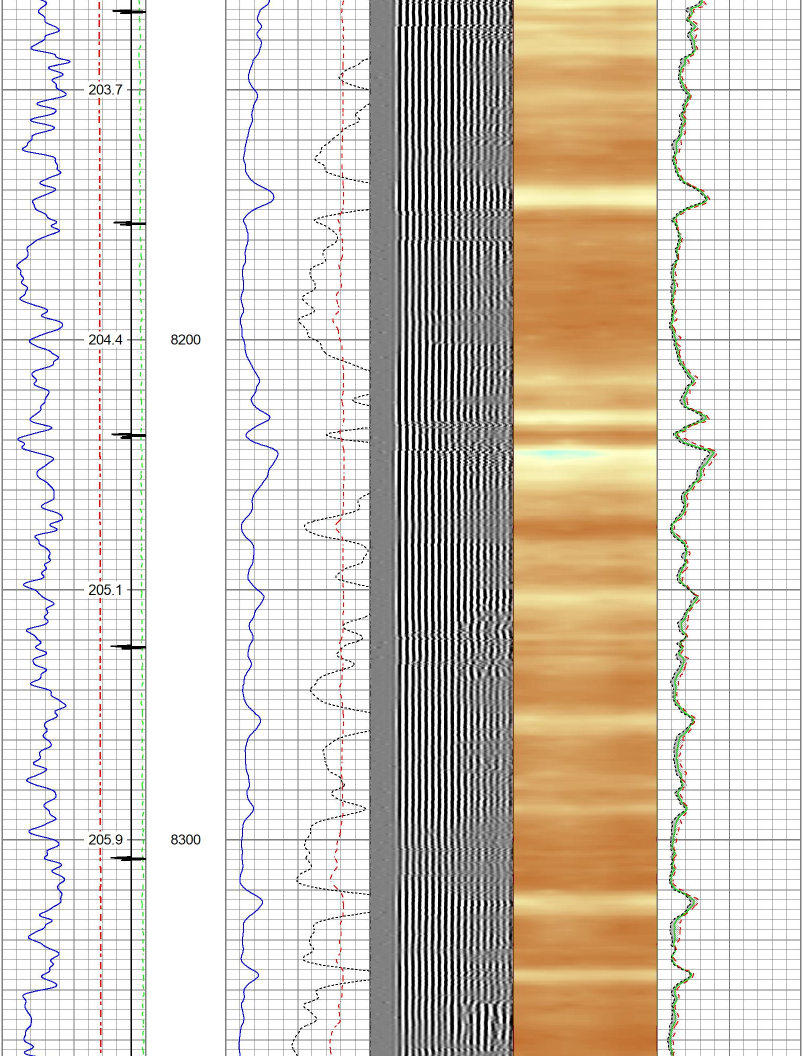
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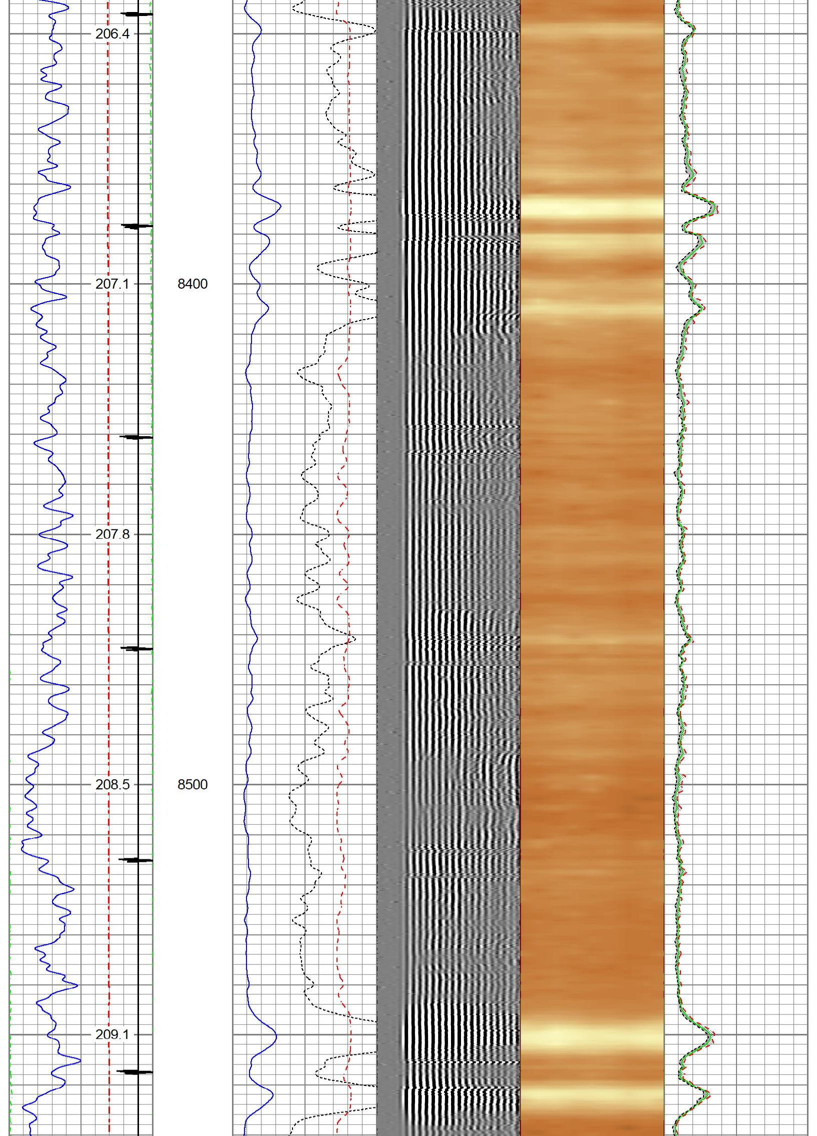
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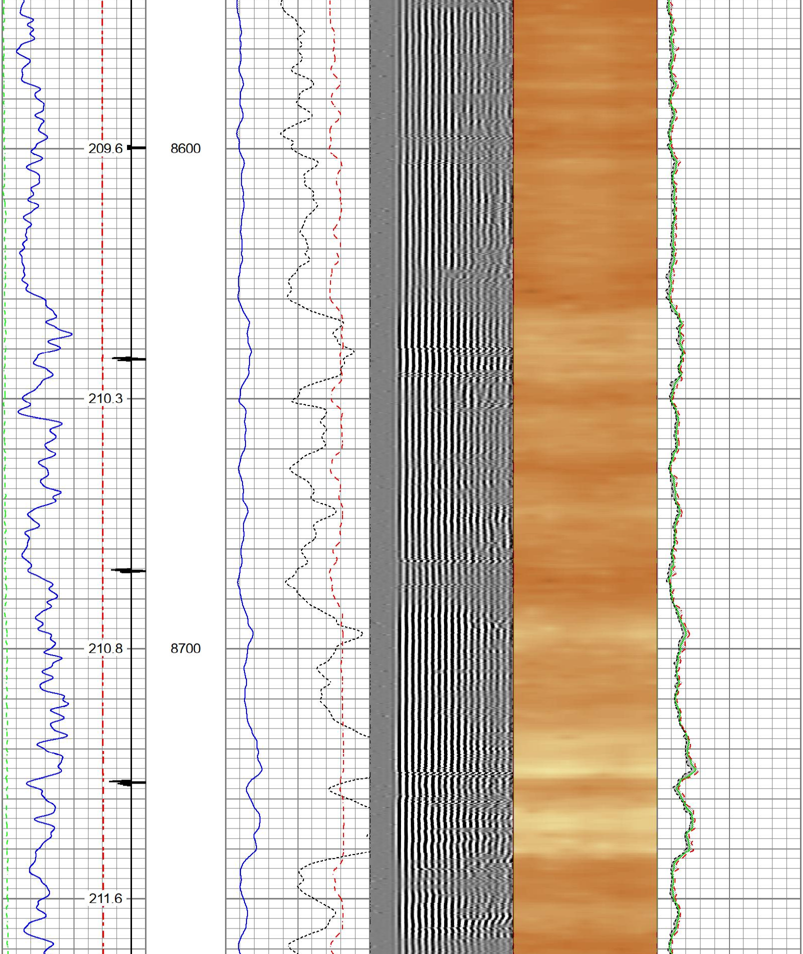

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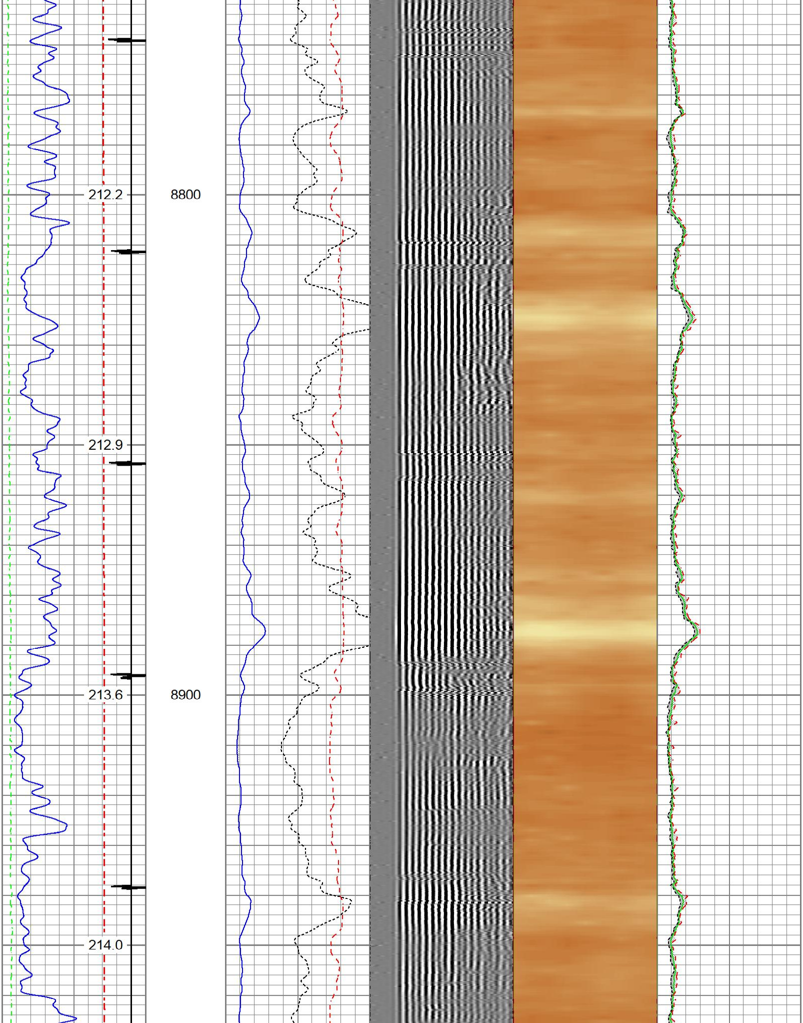
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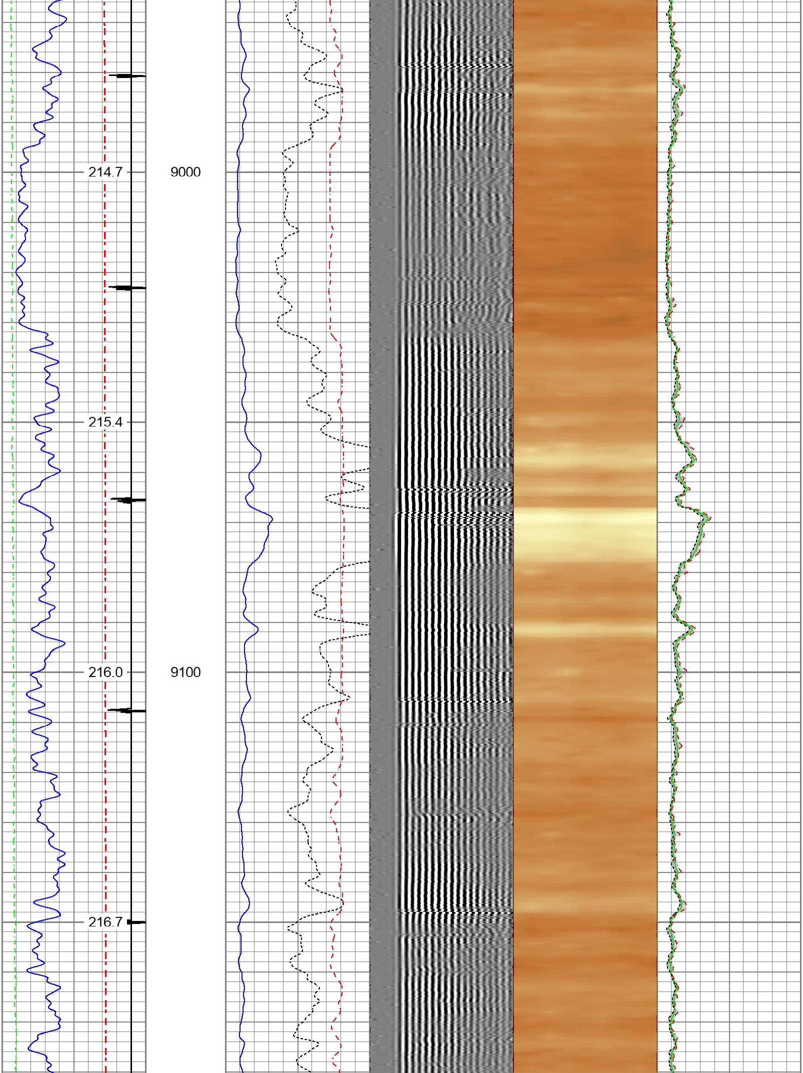
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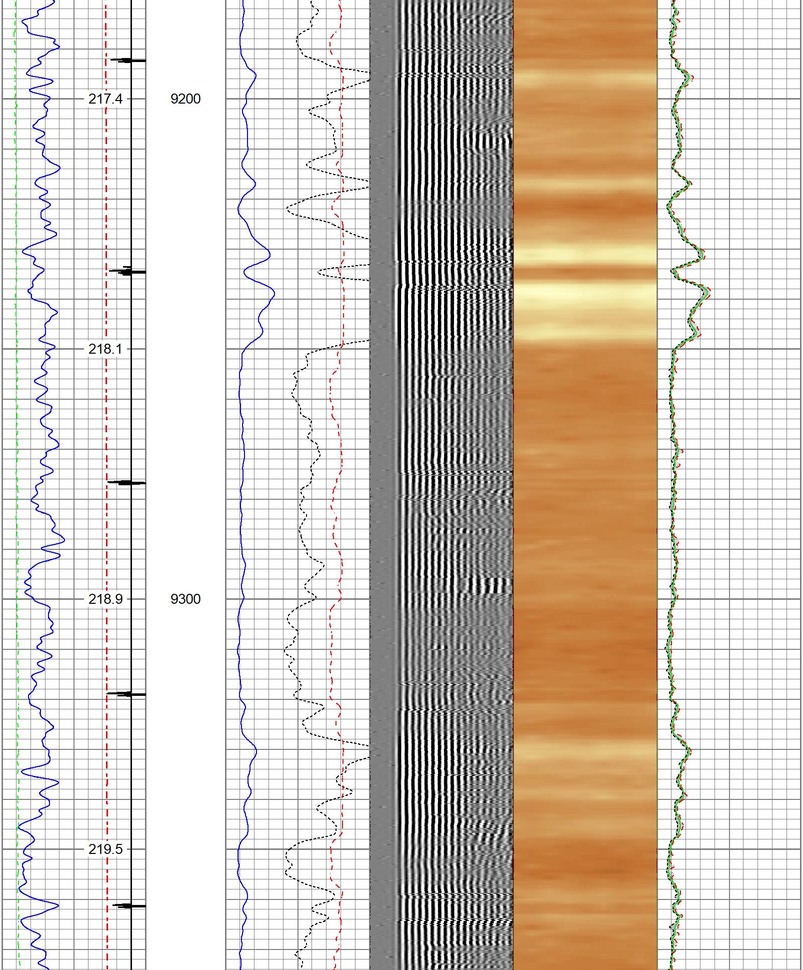
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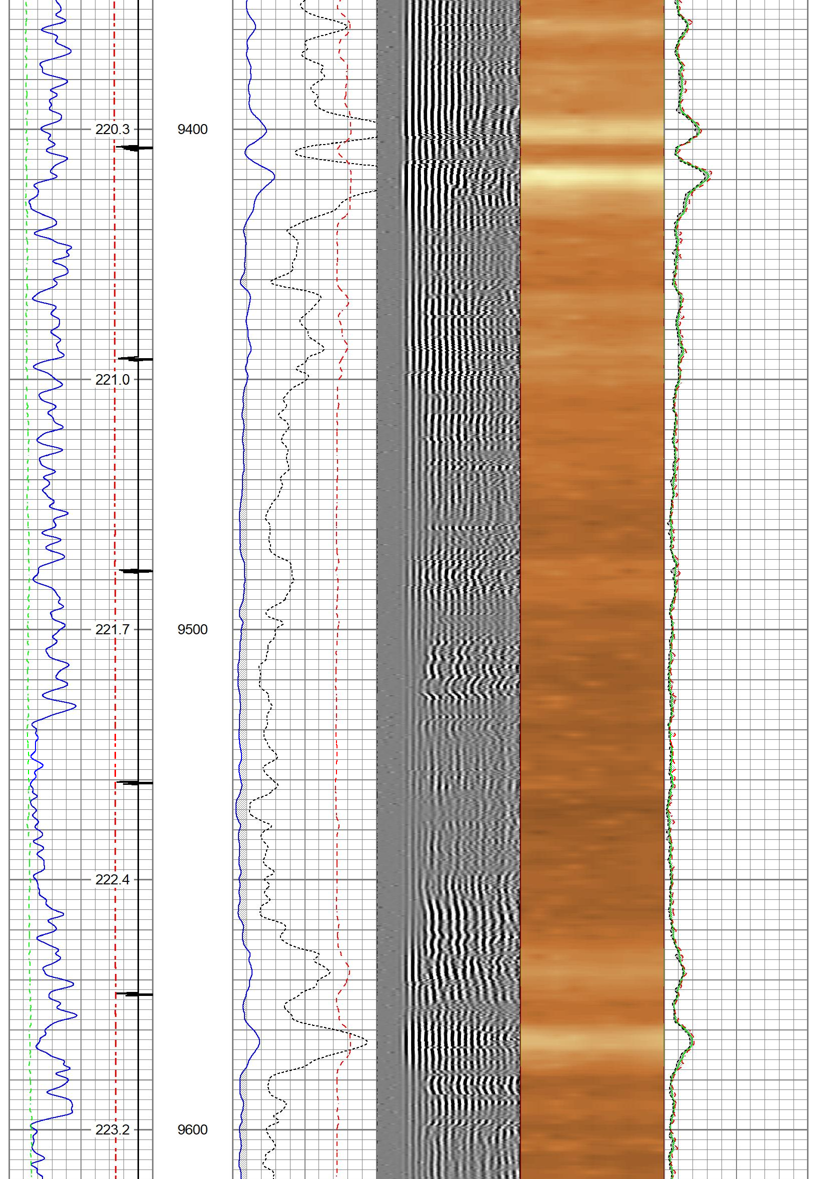
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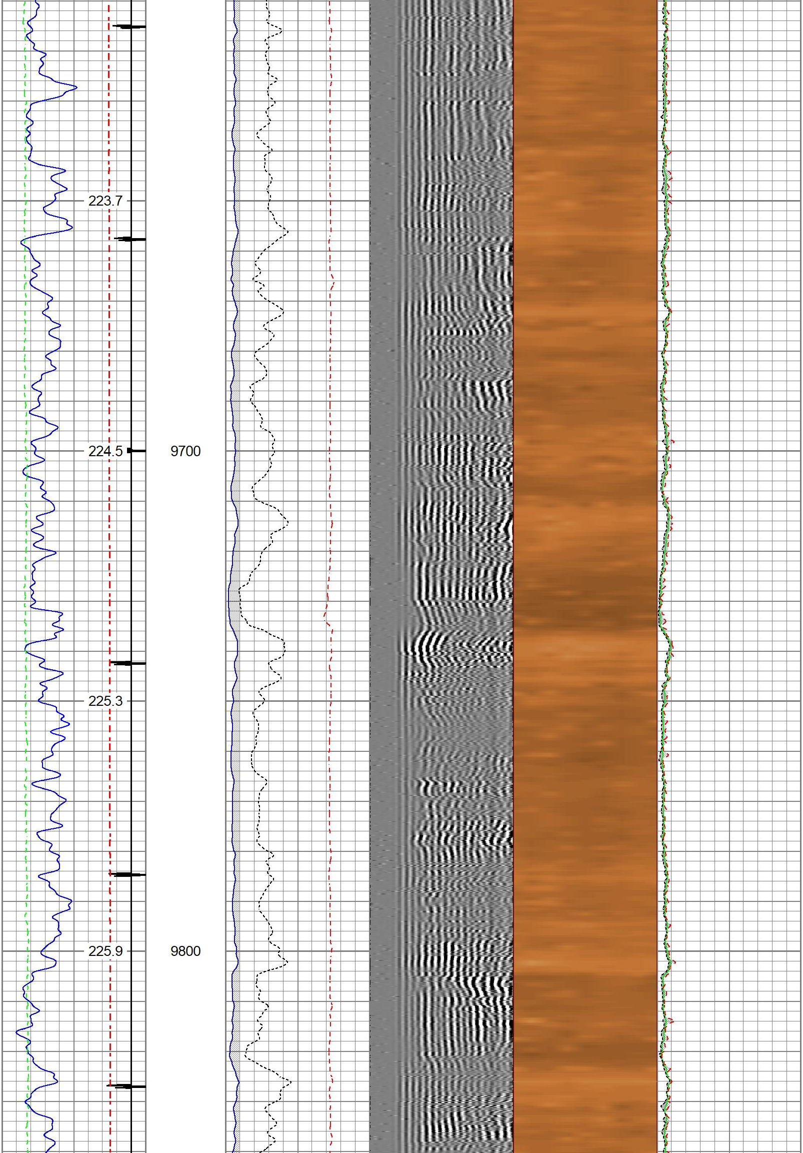
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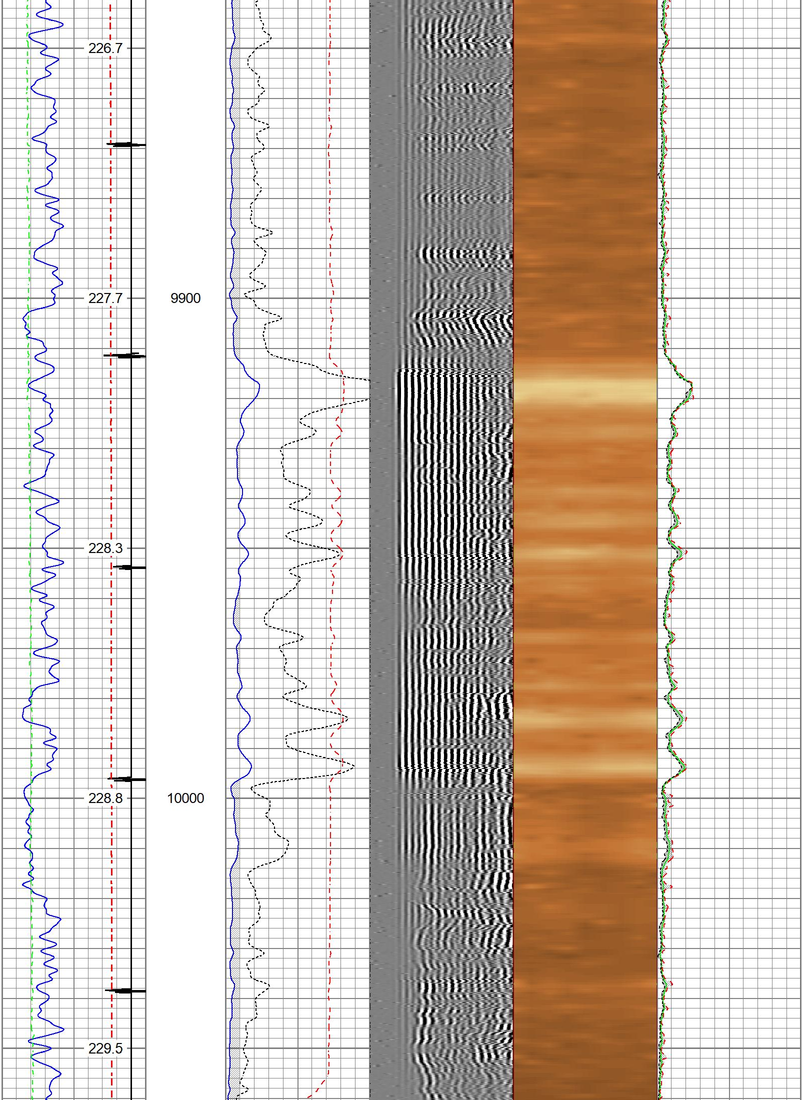
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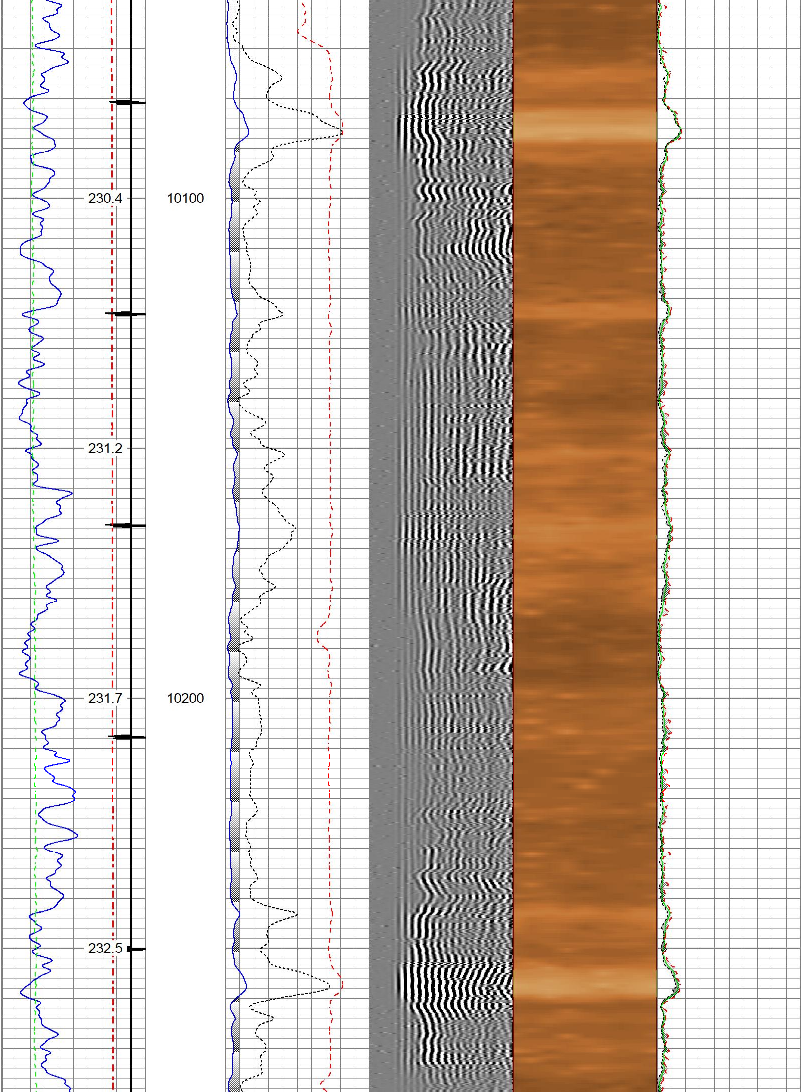
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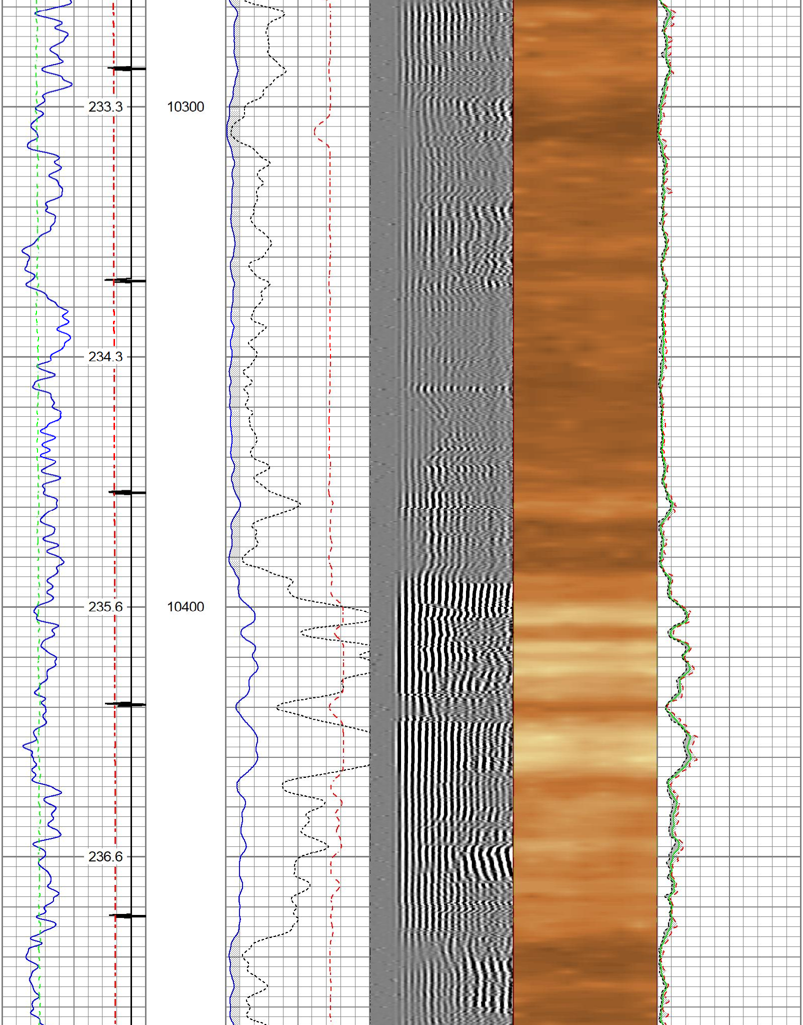
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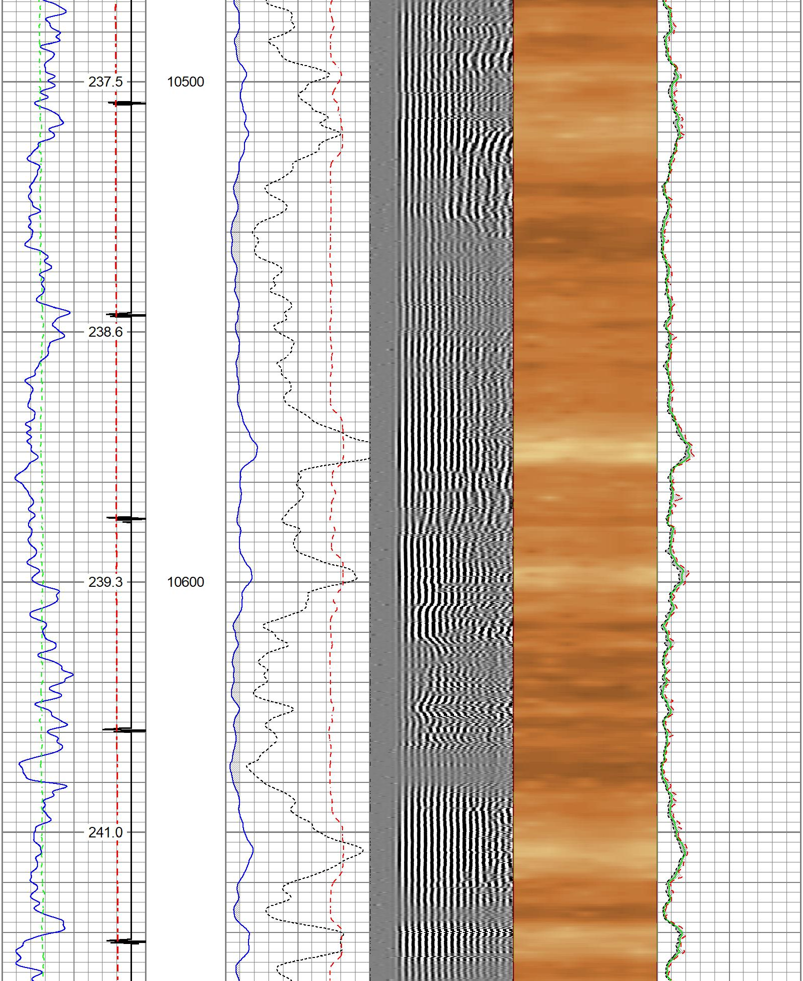
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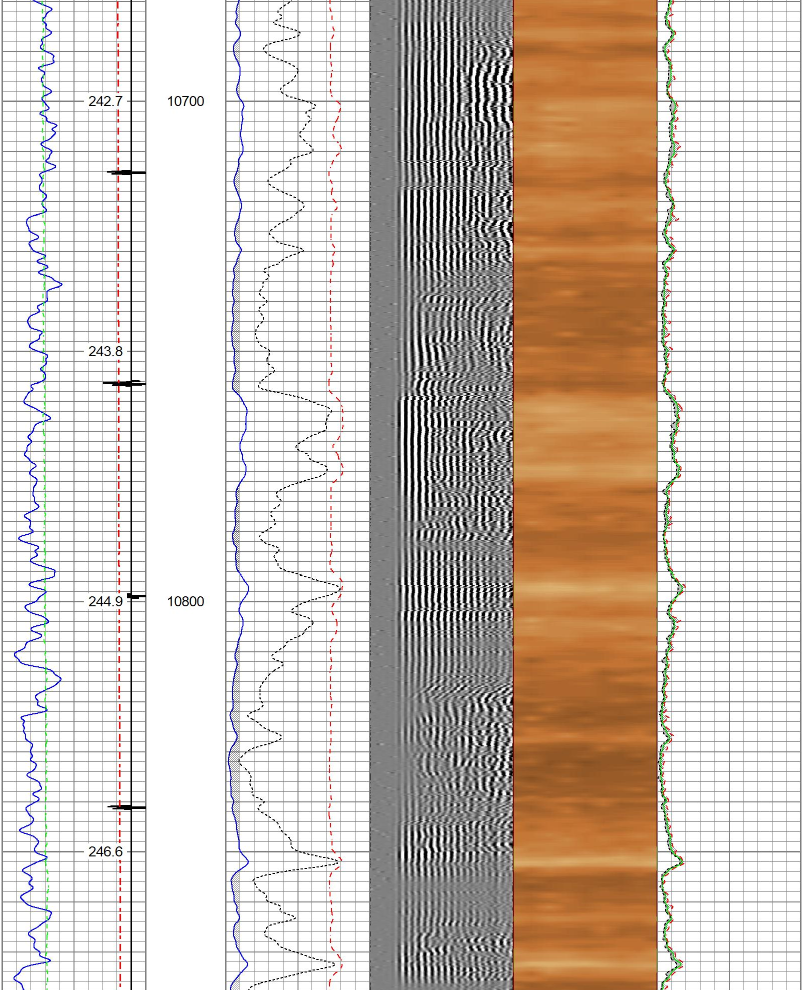
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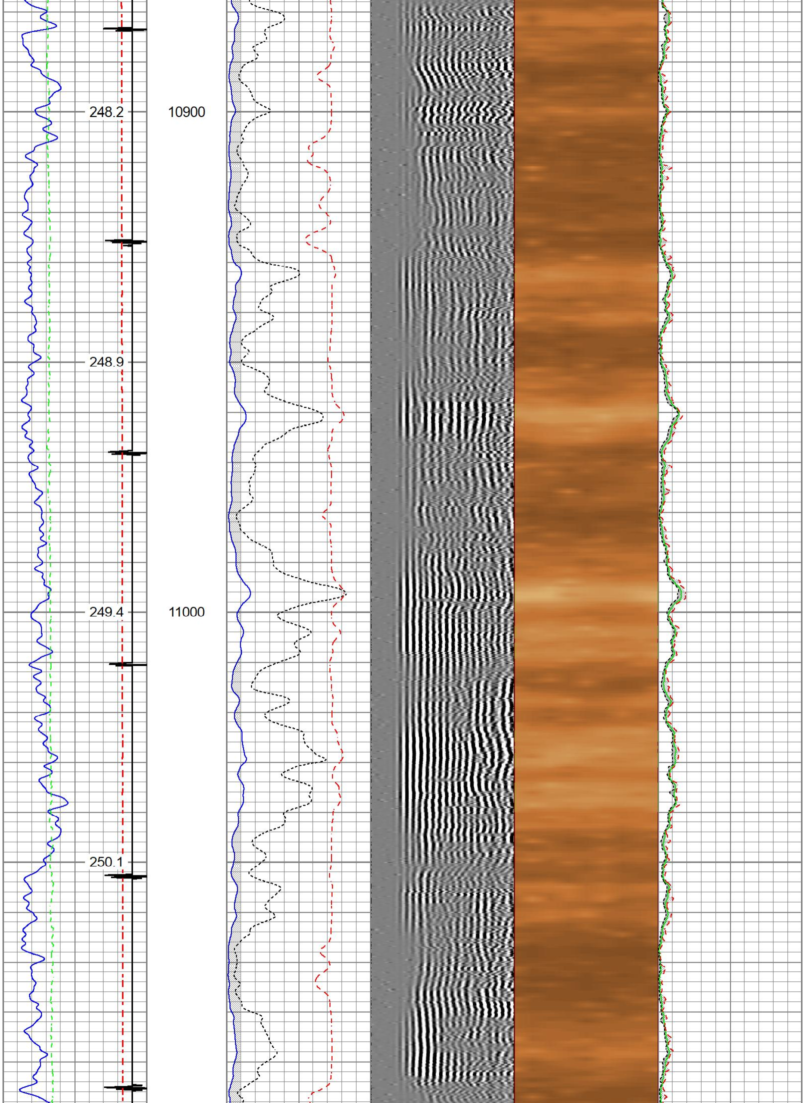
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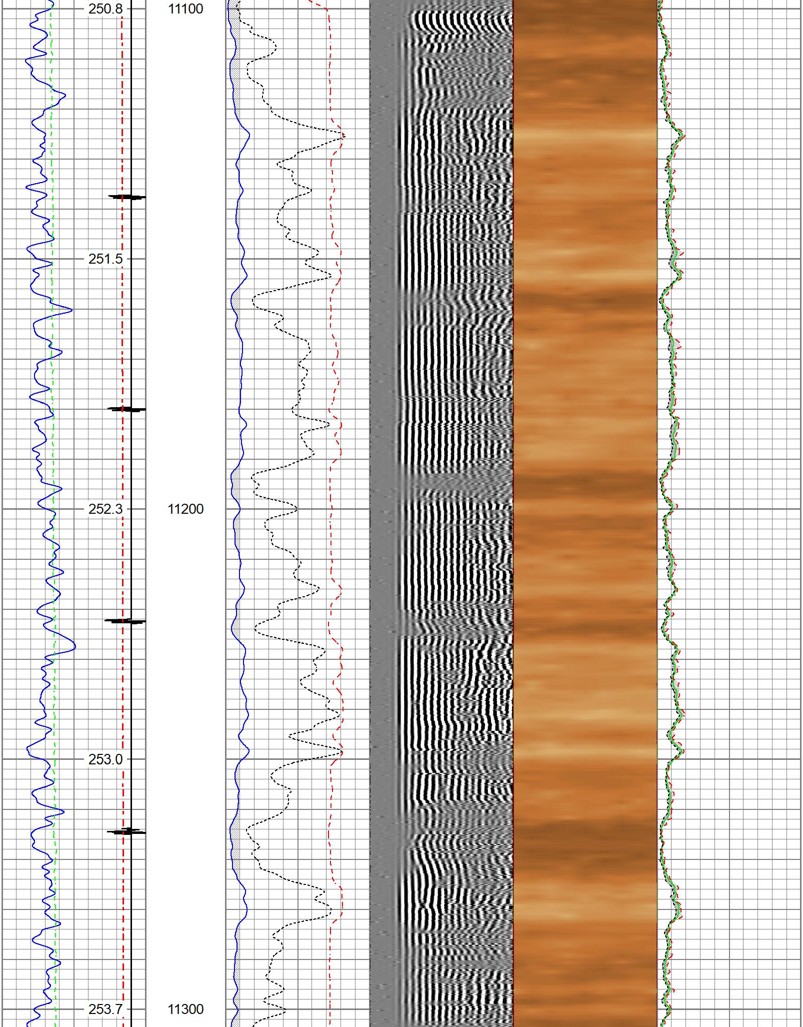
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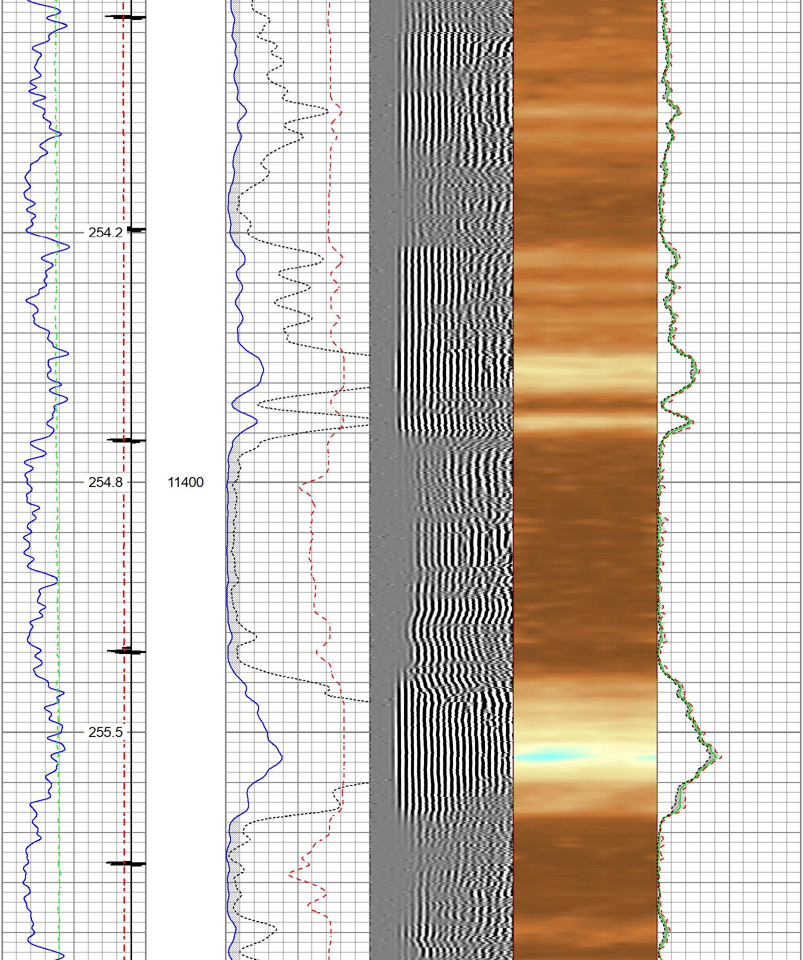
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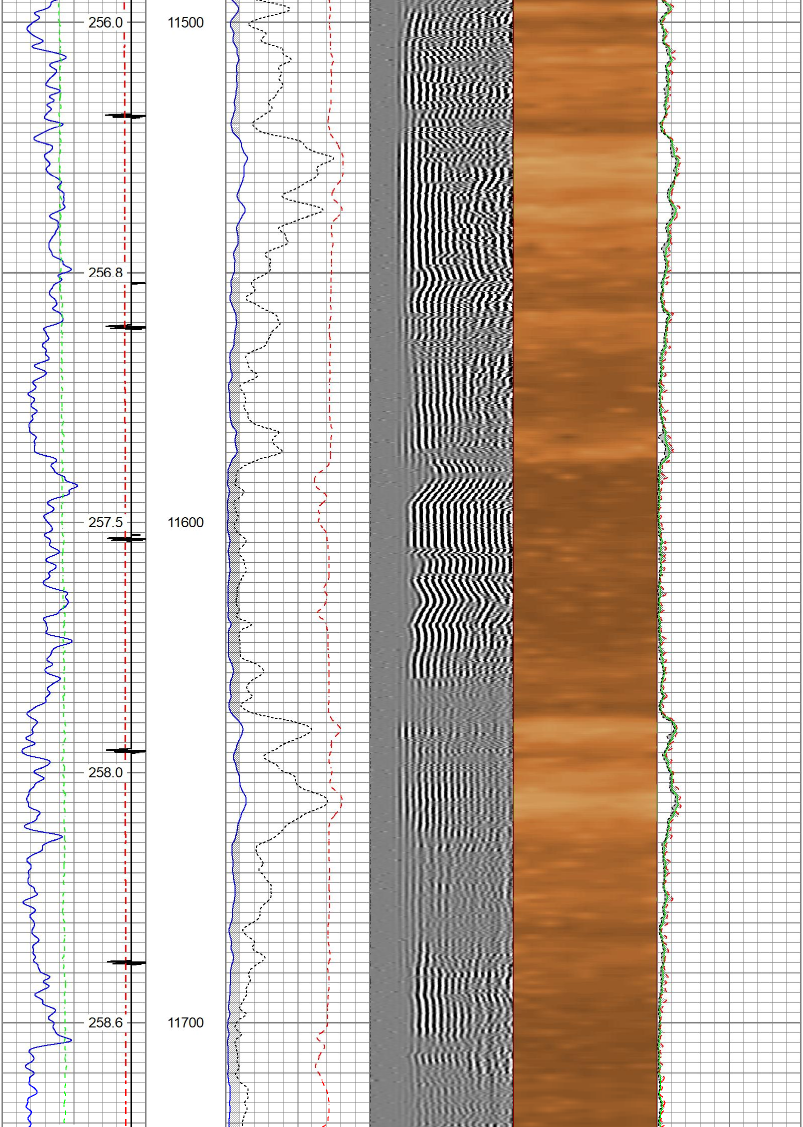
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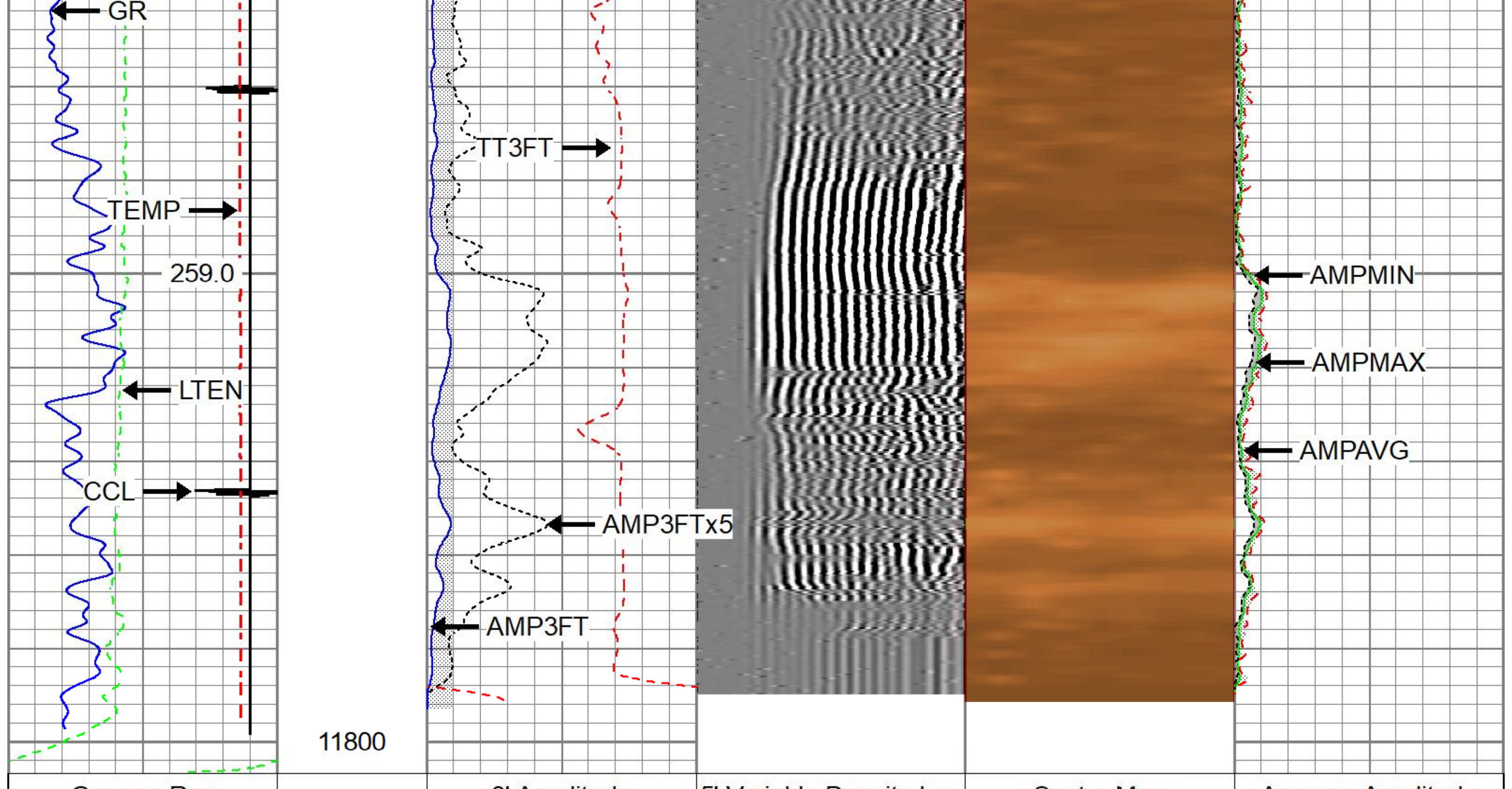


Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 2000	0 (mV) 20			0 120
-9 *CCL$1* 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120

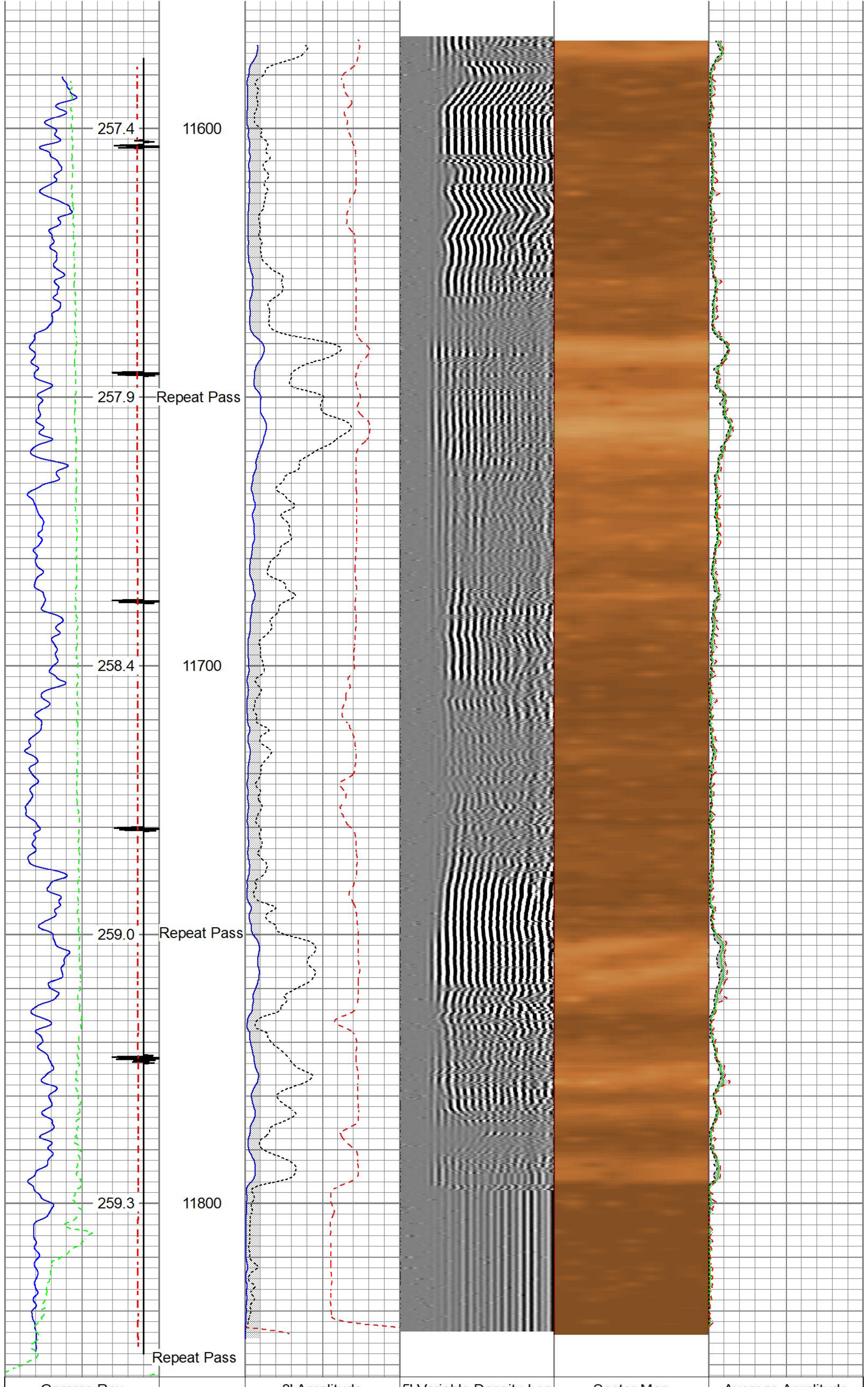
THE WIRELINE GROUP

Repeat Pass 5"=100'

(0 PSI)

Database File tep_rg_13-18-297_rcbl\tep_rg_13-18-297_rcbl.db
Dataset Pathname repeat
Presentation Format twgrcbl
Dataset Creation Sat Jul 13 08:46:11 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) 2000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120



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) 2000	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\tep_rg_13-18-297_rcbl\tep_rg_13-18-297_rcbl.db
Dataset Pathname main
Dataset Creation Sat Jul 13 08:50:41 2024

Gamma Ray Calibration Report

Serial Number:	FW1401-17	
Tool Model:	50-GCT275-0000	
Performed:	Thu May 2 14:09:05 2024	
Calibrator Value:	148.8	GAPI
Background Reading:	74.9	cps
Calibrator Reading:	301.0	cps
Sensitivity:	0.4079	GAPI/cps

Inclinometer Calibration Report

Performed: Fri Oct 20 14:22:50 2023

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-903.00	892.00	-1.00	1.00	gee
Y Accelerometer	-900.00	901.00	-1.00	1.00	gee
Z Accelerometer	6.33	-897.73	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1211-30	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed Sat Jul 13 08:00:41 2024:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	0.905	0.250	81.196	89.877	-0.156
CAL	0.000	0.884				
5'	0.003	0.754	0.250	81.196	107.809	-0.116
SUM						
S1	0.006	0.904	0.000	100.000	111.310	-0.620
S2	0.009	0.885	0.000	100.000	114.080	-0.990
S3	0.005	0.855	0.000	100.000	117.637	-0.623
S4	0.007	0.848	0.000	100.000	118.907	-0.782
S5	0.006	0.881	0.000	100.000	114.278	-0.734
S6	0.005	0.887	0.000	100.000	113.312	-0.535
S7	0.005	0.911	0.000	100.000	110.395	-0.596
S8	0.004	0.914	0.000	100.000	109.915	-0.448

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	0.884	1.000	0.000

Air Zero Calibration, performed Sat Jul 13 08:00:01 2024:

	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

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	14.77
mSec_Count	14.77
RBT_Status	14.77
Error_Ct	14.77
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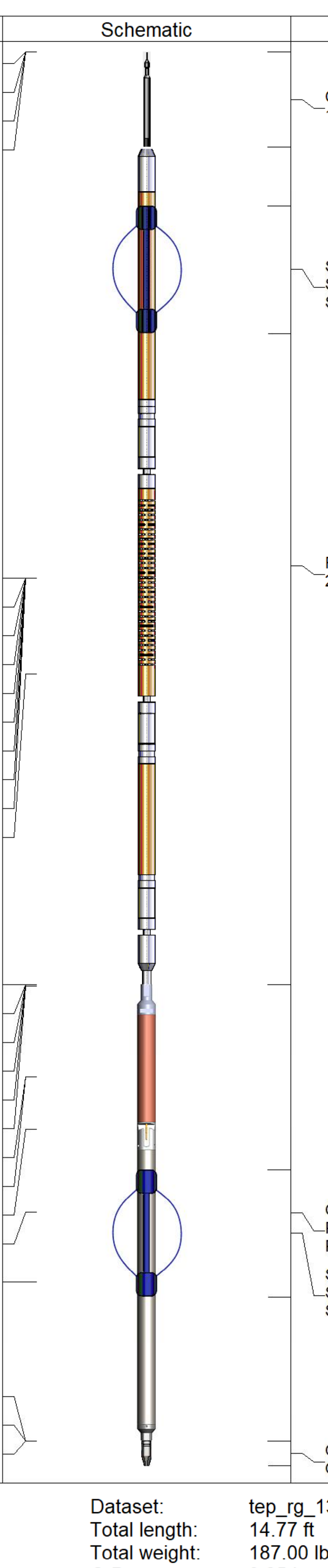
WVFS7	9.27
WVFS6	9.27
WVFS5	9.27
WVFS4	9.27
WVFS3	9.27
WVFS2	9.27
WVFS1	9.27
WVF3FT	9.27
WVF5FT	8.27
RBT_ACCZ	5.02
RBT_ACCY	5.02
RBT_ACCX	5.02
WVFSYNC	5.02
WVFCAL	5.02
GCT_HV	5.01
CCL$2	4.06
CCL$1	4.06
GCT_Temp	3.51
GR	2.64
GCT_IntTemp	1.92
GCT_ACCZ	0.25
GCT_ACCY	0.25
GCT_ACCX	0.25

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 (FW1211-30) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
GCT_acc-50-GCT275-0000 (FW1401-17) Probe 2.75" Gamma Ray - CCL w/Temp (Single Pin)	4.77	2.75	55.00
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
GO BN-14375 GO 1-7/16" Bull Nose with Go Box Top	0.25	1.44	1.00

Dataset: tep_rg_13-18-297_rcbl.db: field/well/run1/main
Total length: 14.77 ft
Total weight: 187.00 lb
O.D.: 3.25 in

Company	TEP Rocky Mountain LLC		
Well	Federal #RG 13-18-297		
Field	Sulfer Creek		
County	Rio Blanco	State	Colorado

THE WIRELINE GROUP

Radial Cement Bond
Gamma Ray
Casing Collar Log