



**SECTOR CEMENT BOND
GAMMA RAY
CCL LOG**

Comp. VERDAD RESOURCES
Well FAWN 2833-01H
Field WELD COUNTY
Co. WELD
State COLORADO

Company **VERDAD RESOURCES**
Well **FAWN 2833-01H**
Field **WELD COUNTY**
County **WELD** State **COLORADO**

Location: API #: 05-123-51845 Other Services
244' FSL & 2238' FWL
SEC 22 TWP 1N RGE 65W
Permanent Datum G.L. Elevation 5104'
Log Measured From G.L. 0' Above Perm. Datum
Drilling Measured From N/A

Date of Service	28-MARCH-2023						
Run Number	ONE						
Depth Driller or PBTD	19126'						
Depth Logger	9260'						
Bottom Log Interval	9255'						
Top Log Interval	SURFACE						
Open Hole Size	8.75"						
Type Fluid	WATER						
Fluid Level	FULL						
Fluid Density	8.34 PPG						
Max. Recorded Temperature	228 DEG.F.						
Max. Wellhead Pressure	0 PSI						
Wellhead Connection	7-1/16" 15K						
Estimated Cement Top	2502'						
Unit Number	1096						
Wireline Size	9/32"						
Location	BRIGHTON,CO						
Recorded By	HARPER						
Witnessed By	HANSEN						
Surface Casing	9-5/8"	WFt	36#	Top	SURFACE	Bottom	2440'
Production Casing	5.5"		20#		SURFACE		19111'
Liner Casing	N/A		N/A		N/A		N/A
Tubing Record	N/A		N/A		N/A		N/A

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All interpretations are opinions based on inferences from electrical or other measurements and Ranger Energy Services cannot and does not guarantee the accuracy or correctness of any interpretation, and Ranger Energy Services 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

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOG CORRELATED TO GROUND LEVEL

THANK YOU FOR USING RANGER ENERGY SERVICES! FIELD TICKET #.....529477

Your Ranger Energy Services Crew	Tool Data - Services	Serial Number
Engineer: B.HARPER	PROBE RADII BOND	RBT-PROBE 070150
Operator: B.HECHT	GAMMA RAY/CCL	GR ANALOG 071129
Operator: C.PROBST		
Operator:		

Operator	Offset (ft)	Substrate	Description	Length (ft)	O.D. (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
ErrCt	17.33		Cable_Head-1_7/16 Titan 1 7/16" Cable Head	1.02	1.44	3.31	
IntTemp	15.07						
WVFS8	11.82			RBT-Probe (070150) Probe Radii Bond Tool with Digital Telemetry	8.75	2.75	90.00
WVFS7	11.82						
WVFS6	11.82						
WVFS5	11.82						
WVFS4	11.82						
WVFS3	11.82						
WVFS2	11.82						
WVFS1	11.82						
WVFCAL	11.82						
WVF3FT	11.82						
WVF5FT	10.82						
CCL	6.62						
GR	5.38		GR_analog-GR275B (071129) 275 Gamma-CCL (Pulse) Top Detector	4.57	2.75	55.00	
			Centralizers-8071-275-200 Tekco 2 3/4" Adjustable Centralizer	2.73	2.75	25.00	
			Bull_Plug-1_7/16_GO Titan 1 7/16" Female Bull Plug	0.27	1.44	1.00	

Dataset: verdad_fawn 2833-01h_05-123-51845_03-28-23.db: field/well/run1/pass3
 Total length: 17.33 ft
 Total weight: 174.31 lb
 O.D.: 2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\verdad_fawn 2833-01h_05-123-51845_03-28-23.db
 Dataset field/well/run1/pass3/_vars_

Top - Bottom

BOREID in 8.75	BOTTEMP degF 220	CASEOD in 5.5	CASETHCK in 0.361	CASEWGHT lb/ft 20	MAXAMPL mV 71.9	MINAMPL mV 2.2	MINATTN db/ft 0.8
PERFS No	PPT usec 261	SRFTEMP degF 21	TDEPTH ft 19039				

Variable Description

BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness

CASEWGHT : Casing Weight
 MAXAMPL : Maximum Amplitude
 MINAMPL : Minimum Amplitude
 MINATTN : Minimum Attenuation

PERFS : Perforation Flag
 PPT : Predicted Pipe Time
 SRFTEMP : Surface Temperature
 TDEPTH : Total Depth

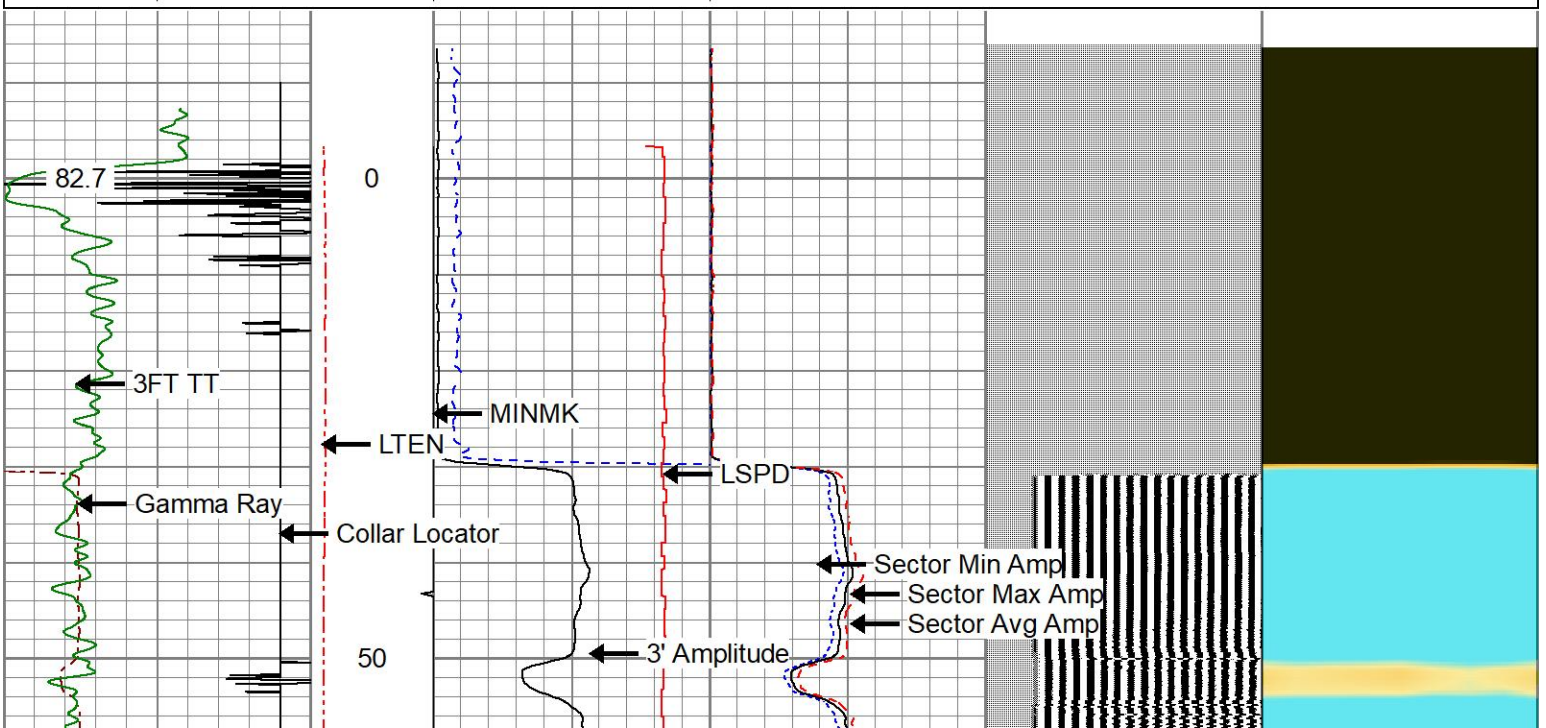


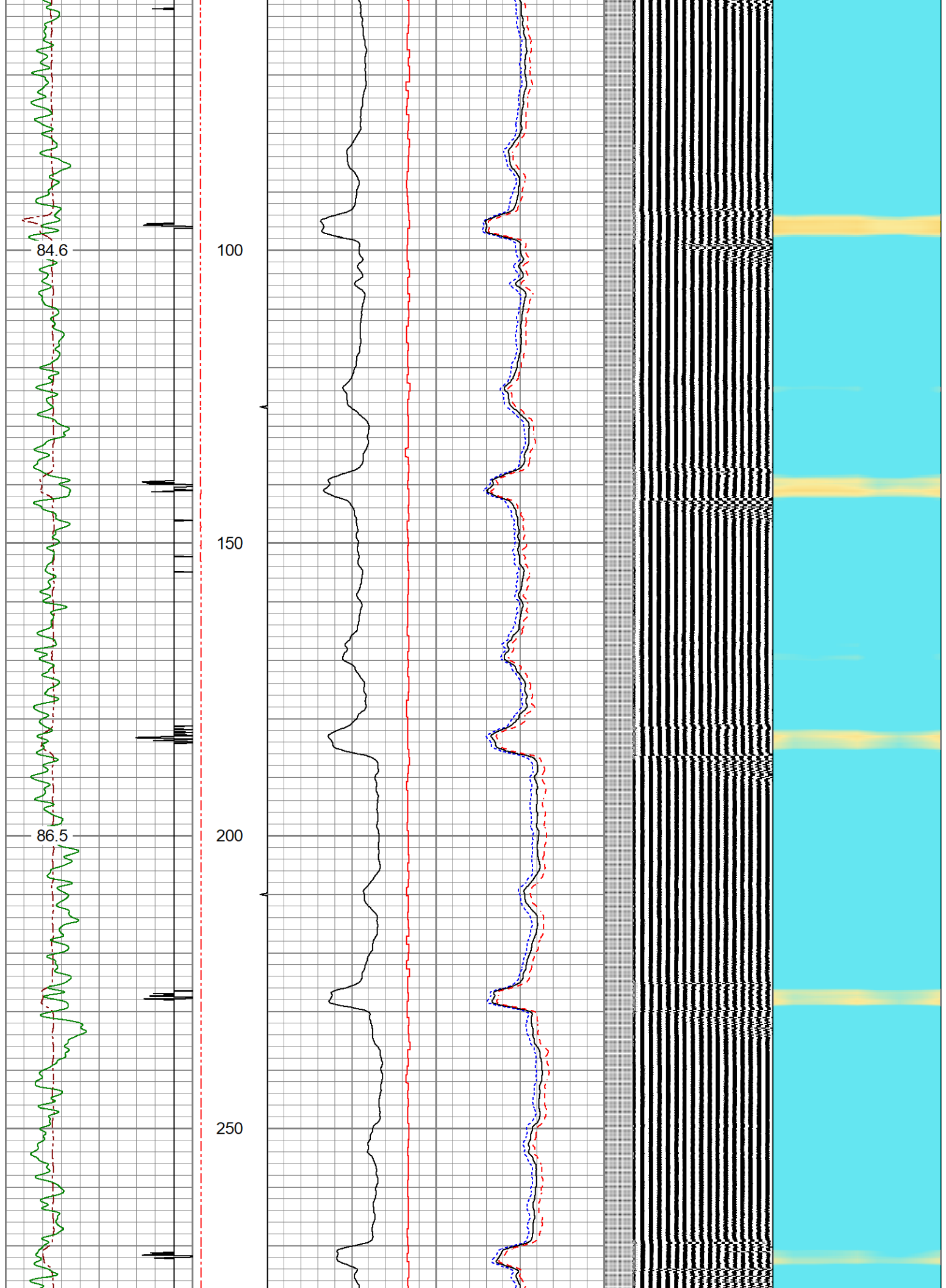
MAIN PASS

0 PSI APPLIED AT SURFACE

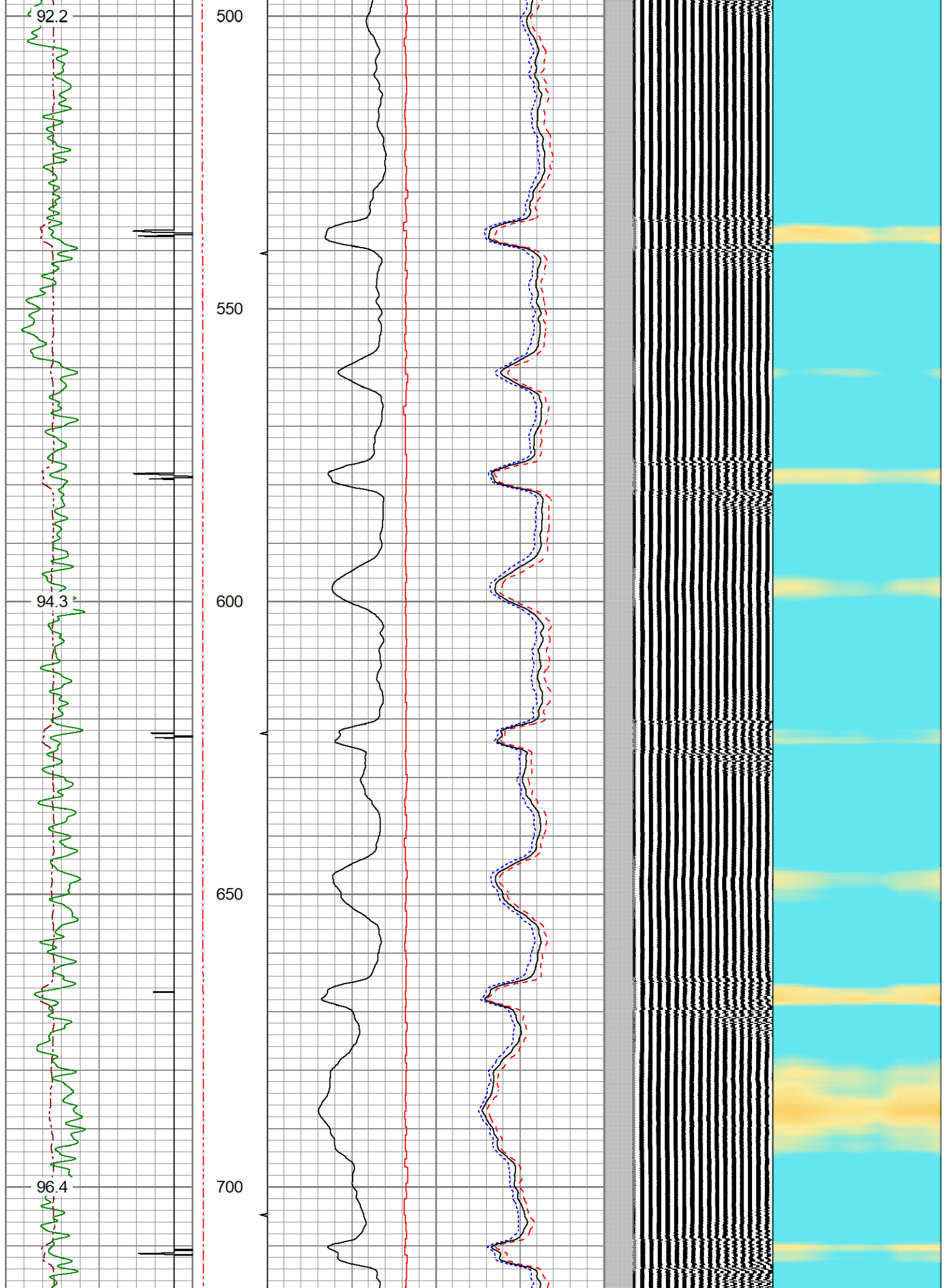
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 Dataset Pathname: pass3
 Presentation Format: res_scbl 8sec_co_verdad
 Dataset Creation: Tue Mar 28 07:52:49 2023
 Charted by: Depth in Feet scaled 1:240

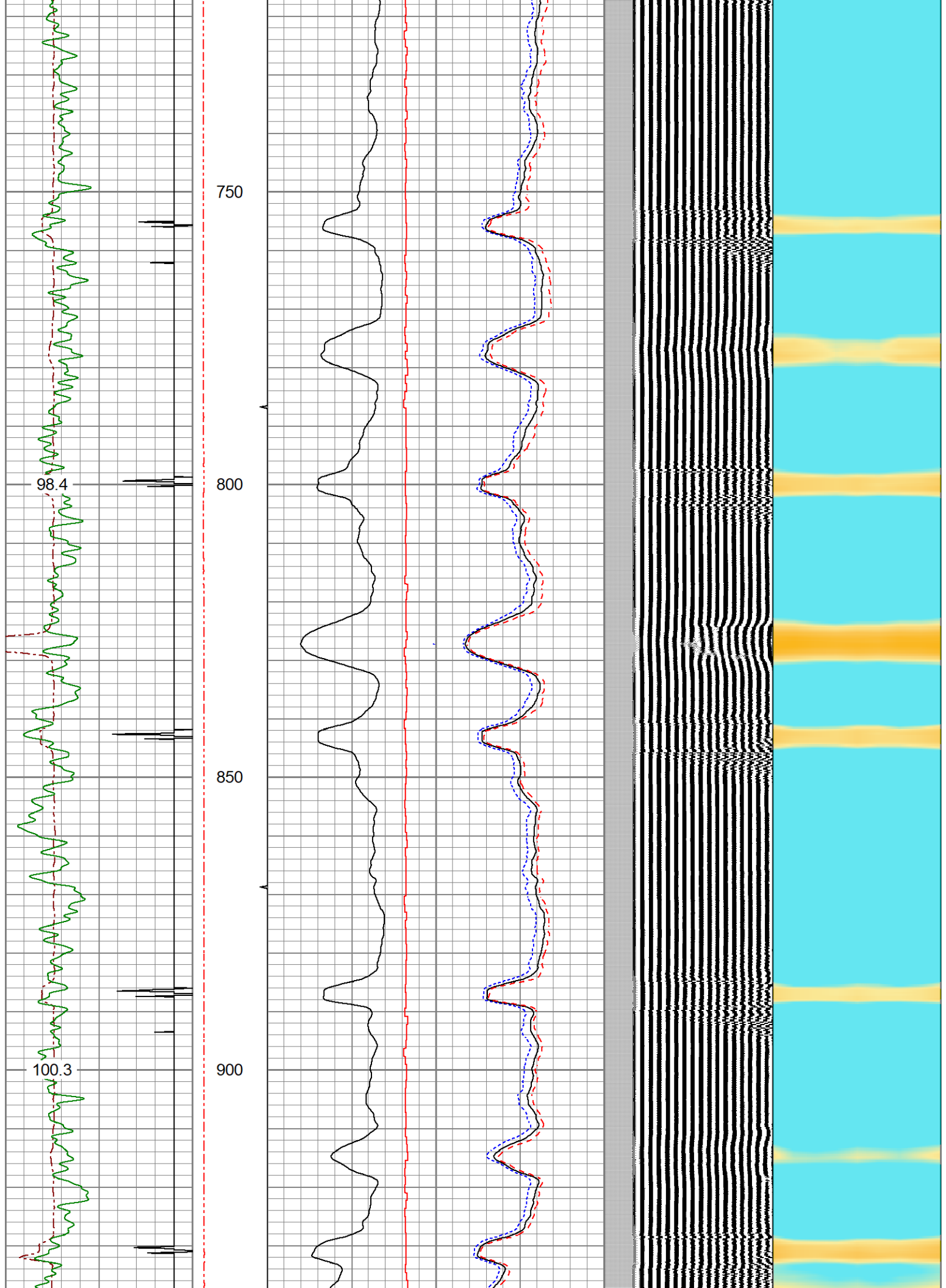
280	3FT TT (usec)	180	LTEN	3' Amplitude	0	Sector Min Amp	150	200	VDL (usec)	1200	1	Sector Map	8
-9	Collar Locator	1	(lb)	(mV)	100	Sector Avg Amp							
	Gamma Ray		0	2000		0	150						
0	(GAPI)	150	MINMK	3' Amplified Amplitude X 5		Sector Max Amp							
	TEMP		10	0	(mV)	20	0	150					
	(degF)				0	LSPD (ft/min)-100							

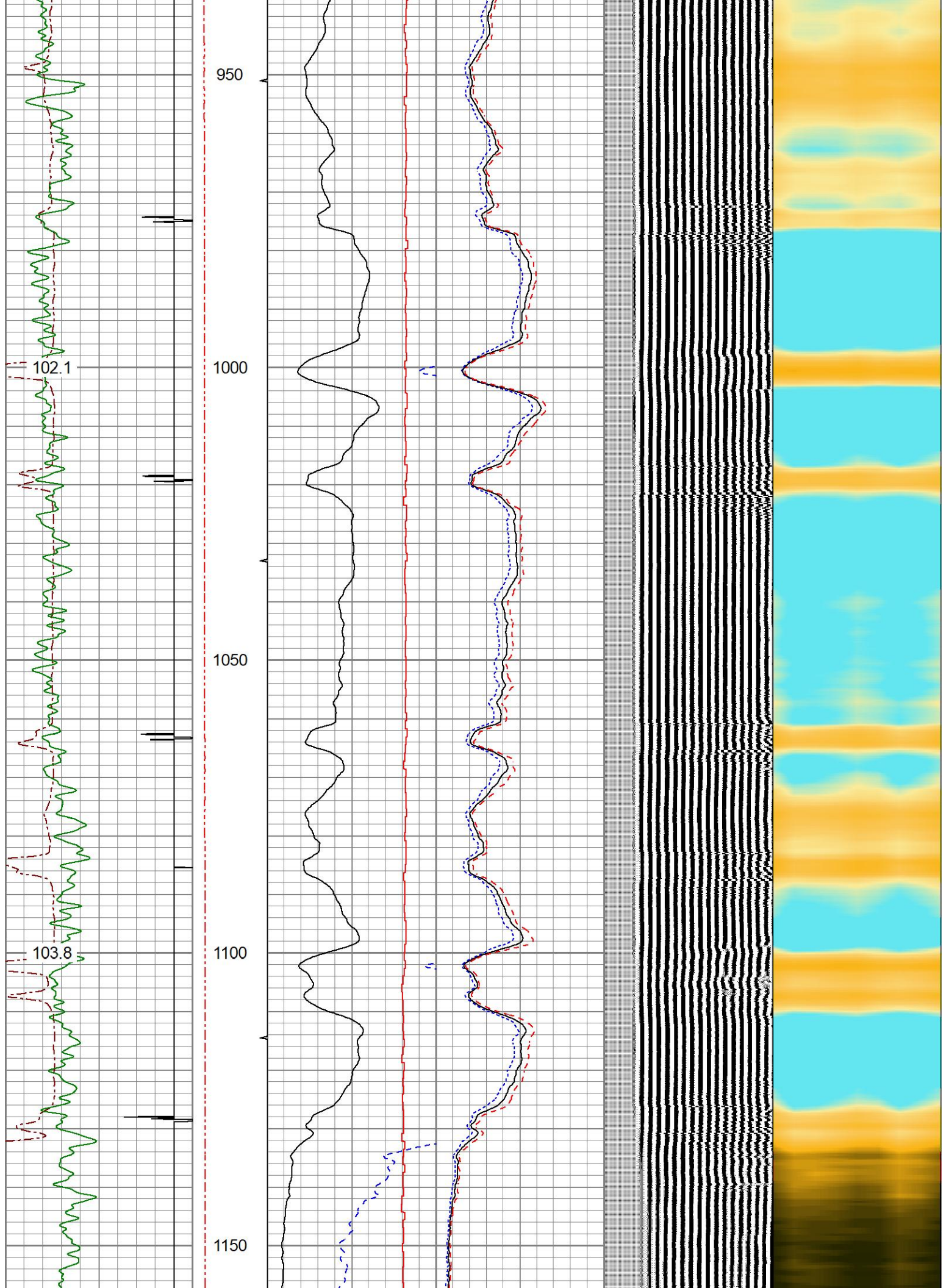


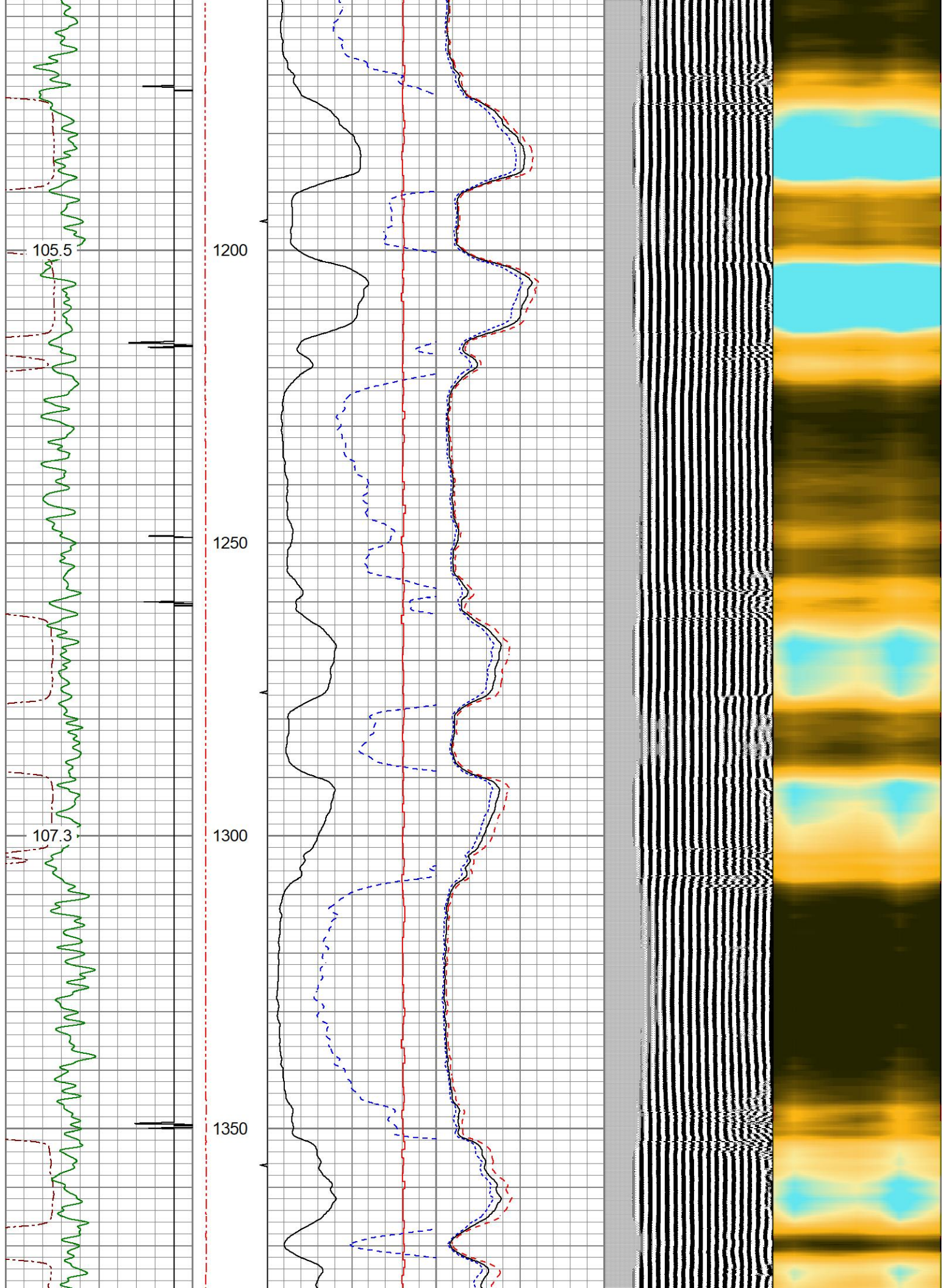


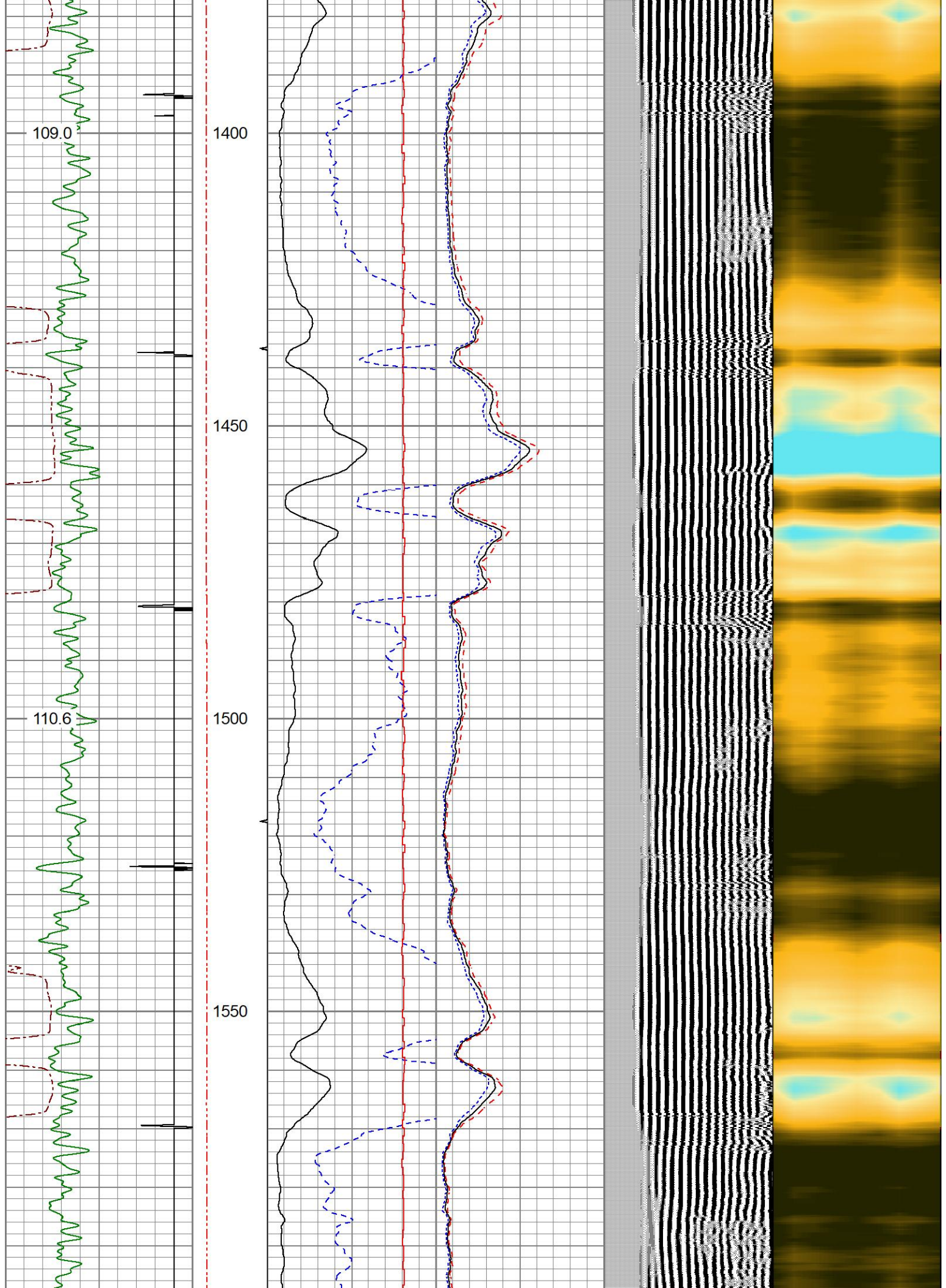


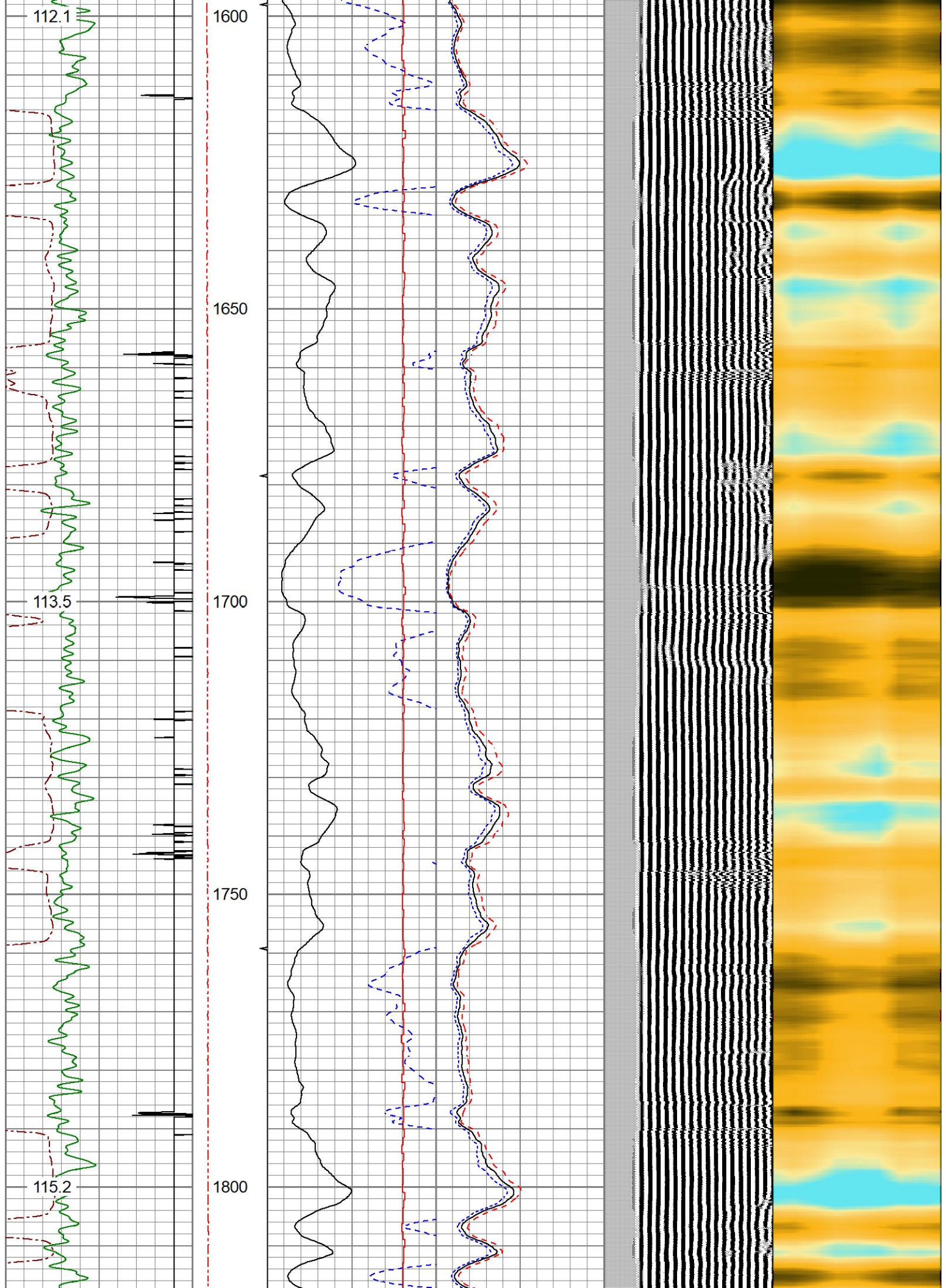


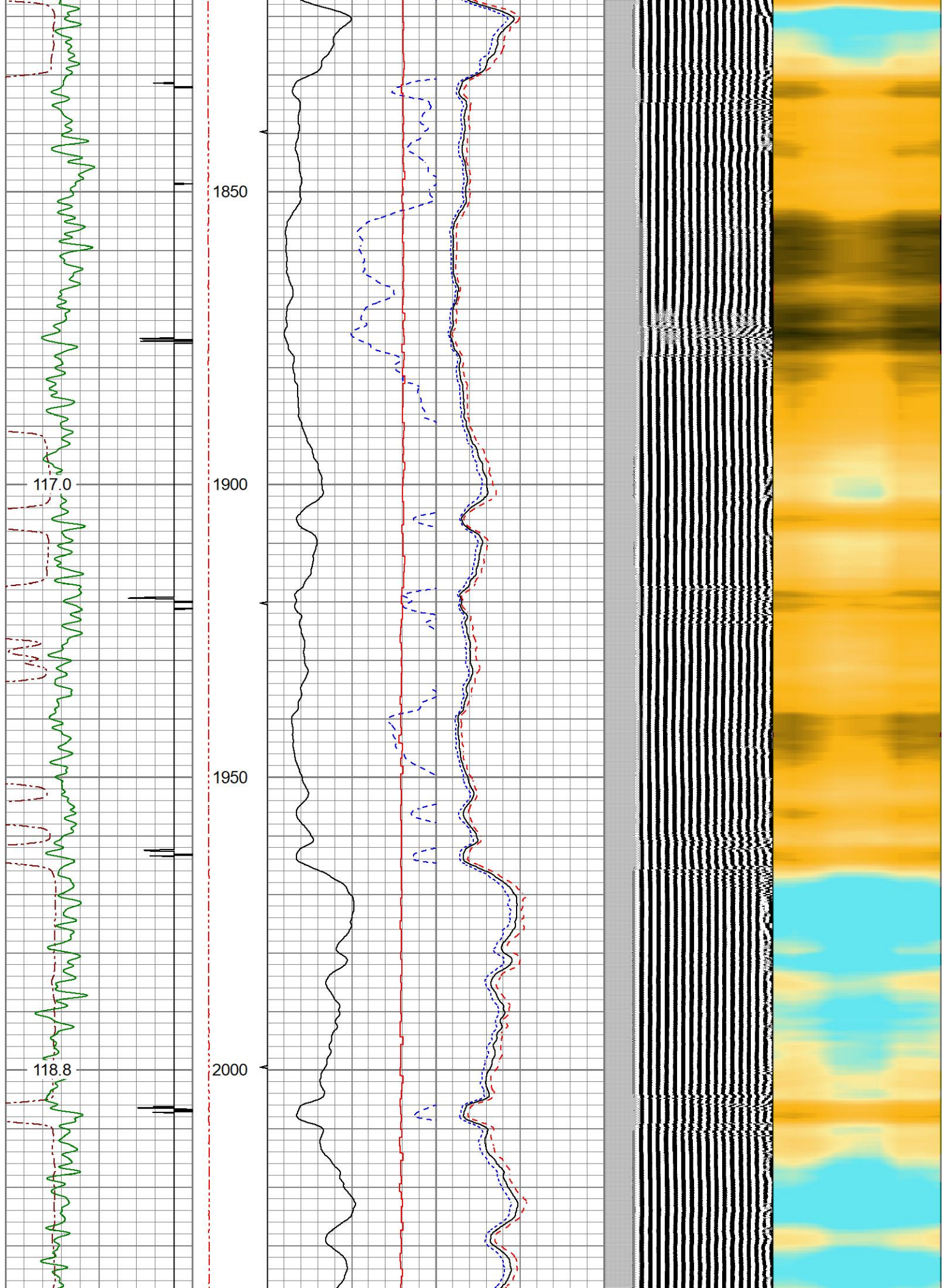


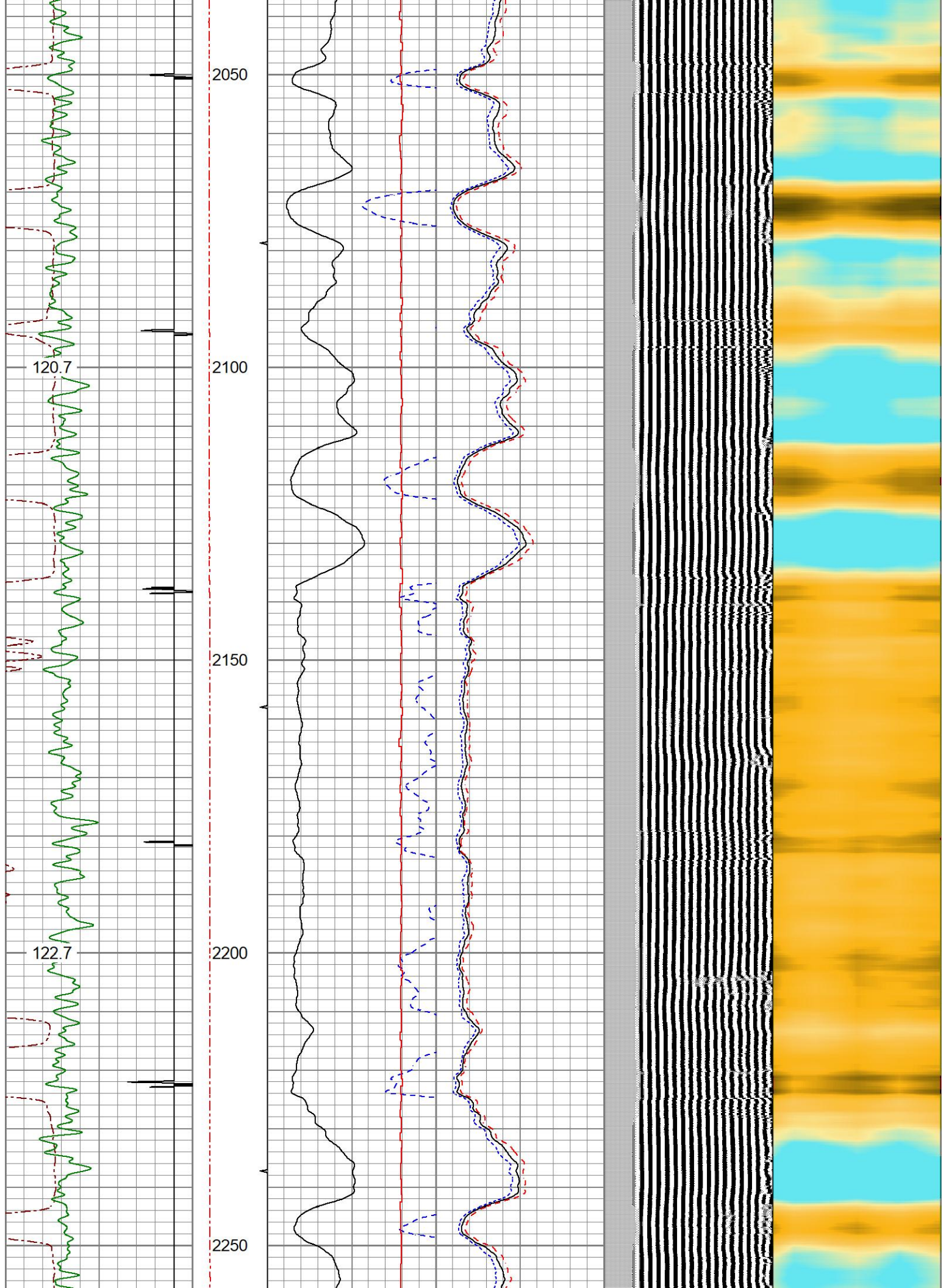


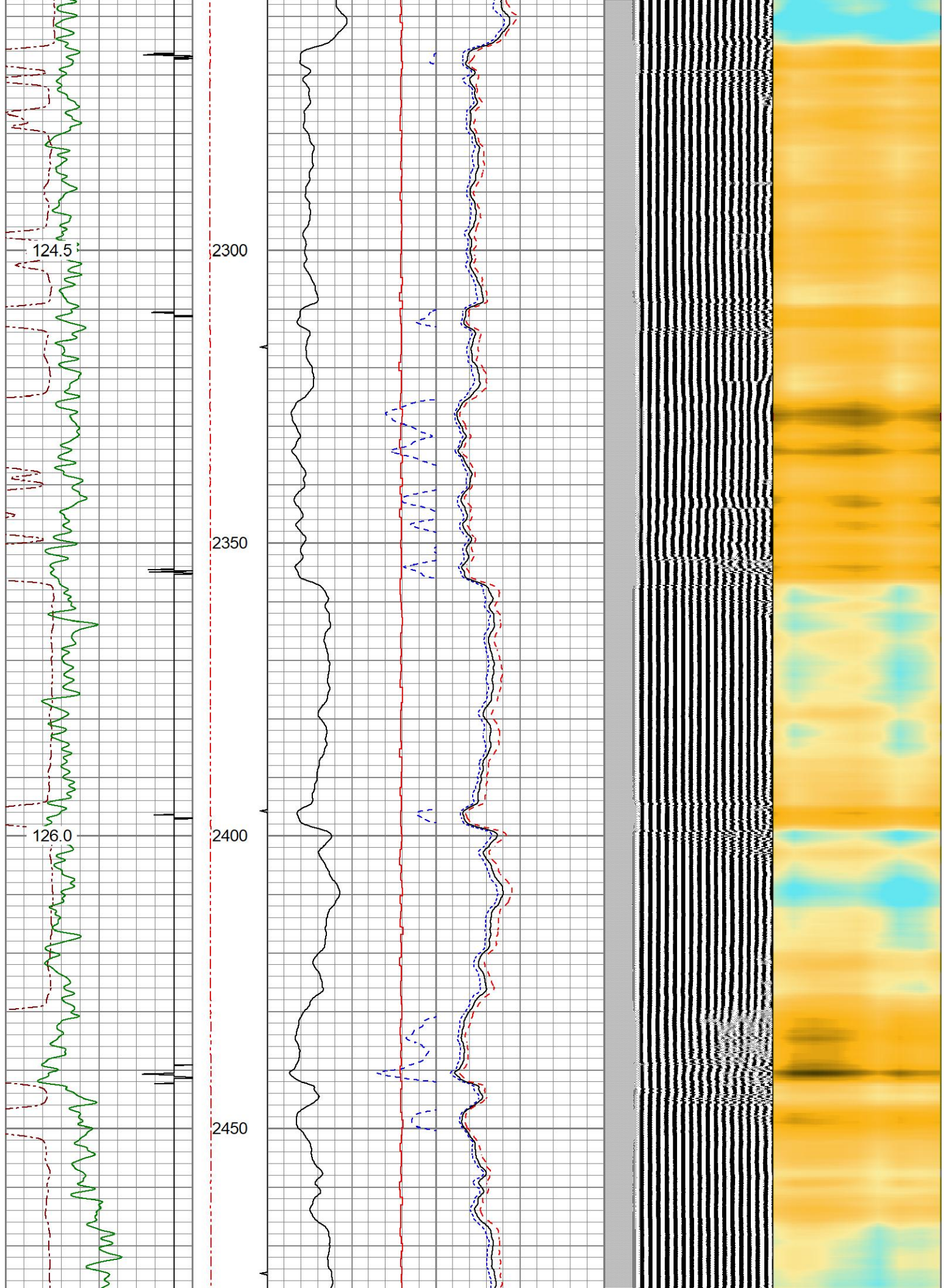


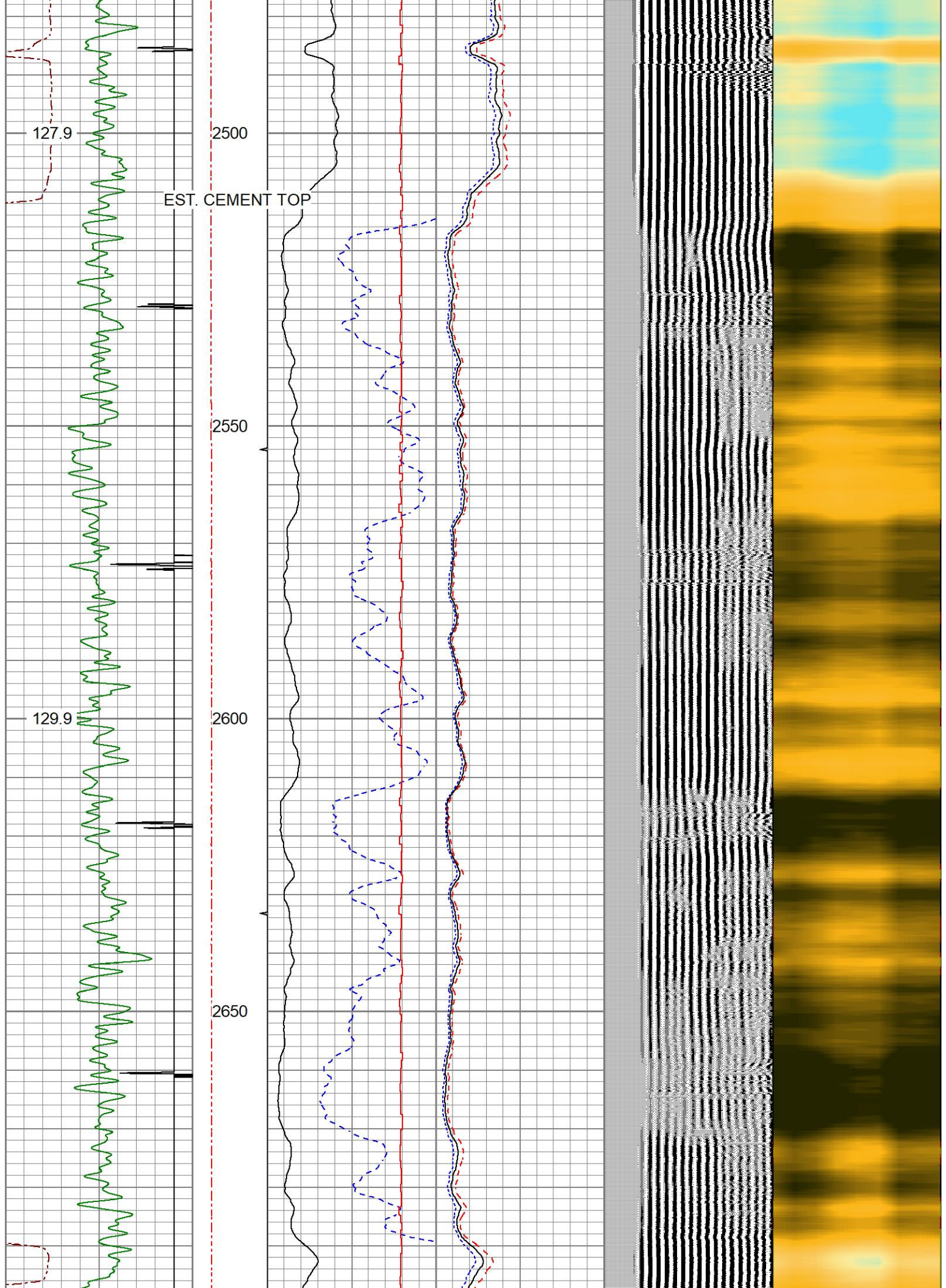


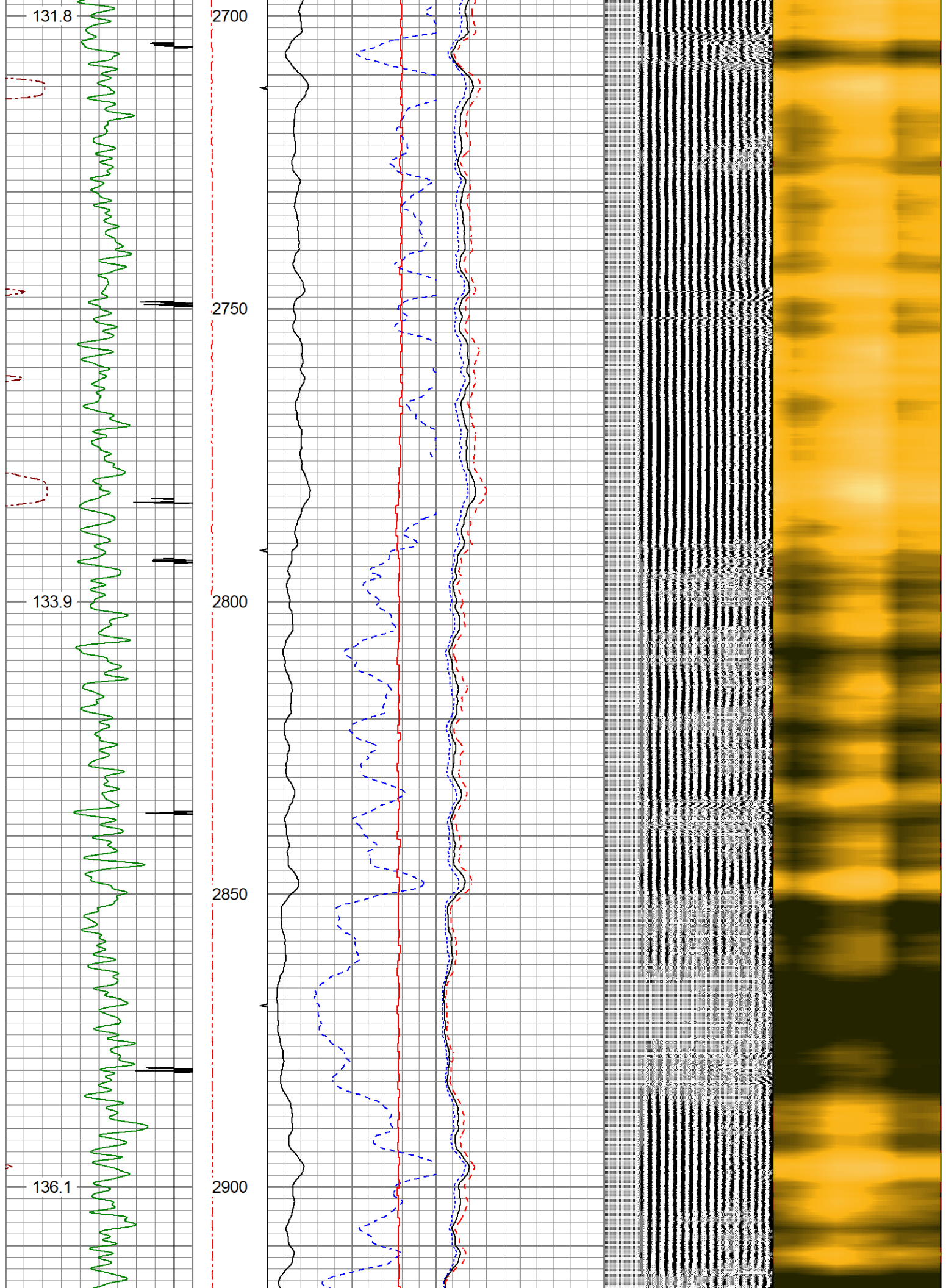


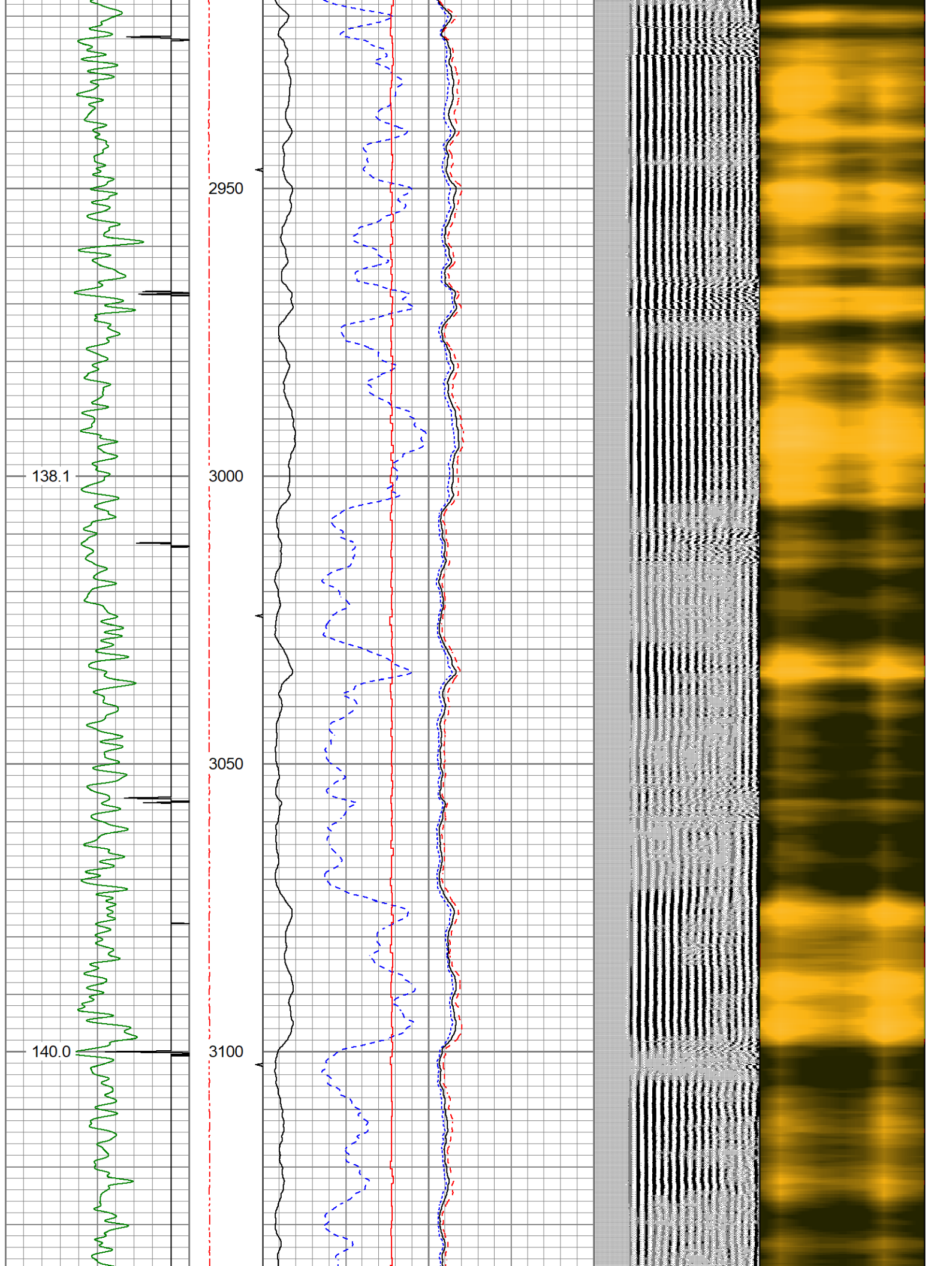


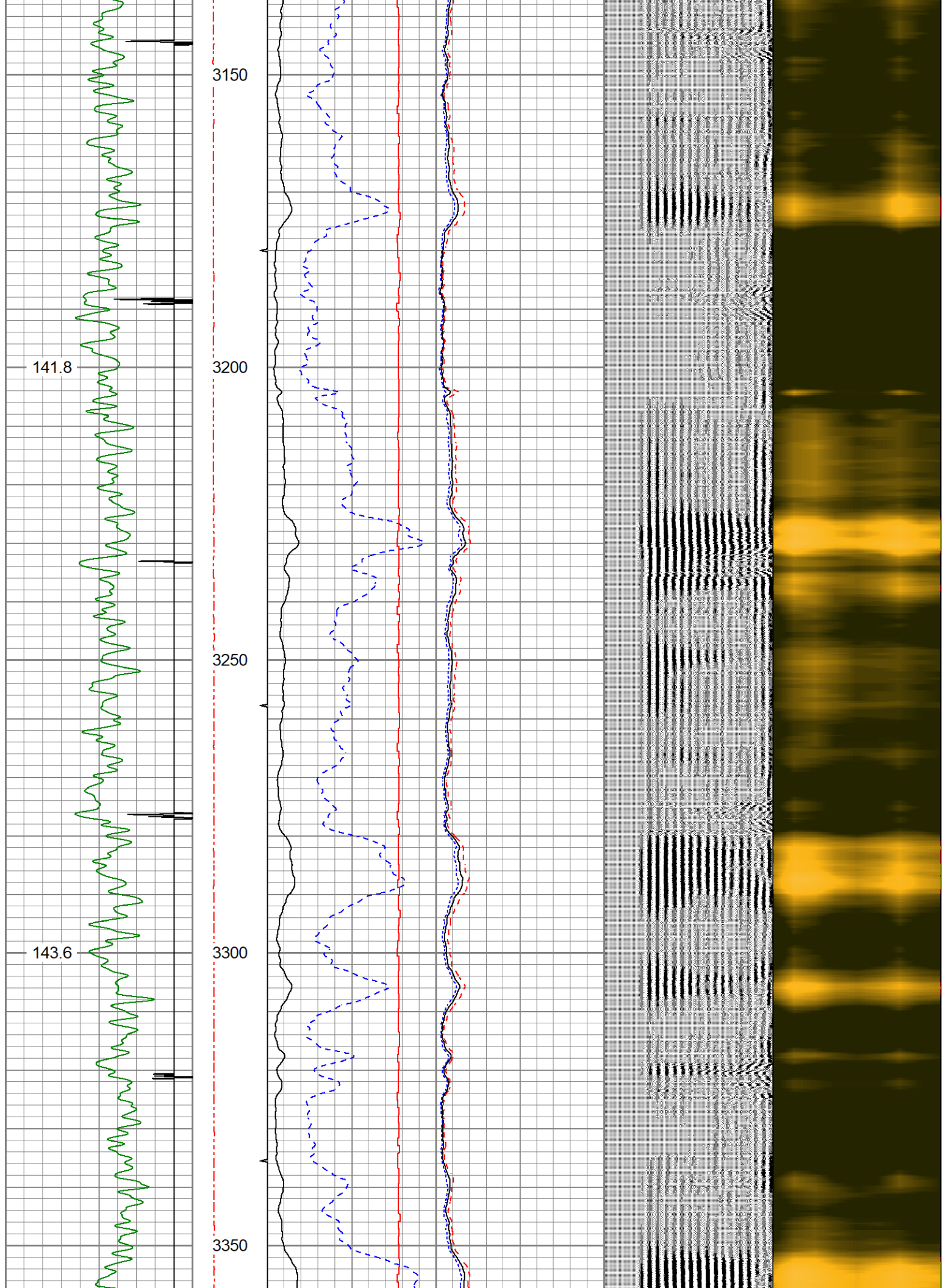


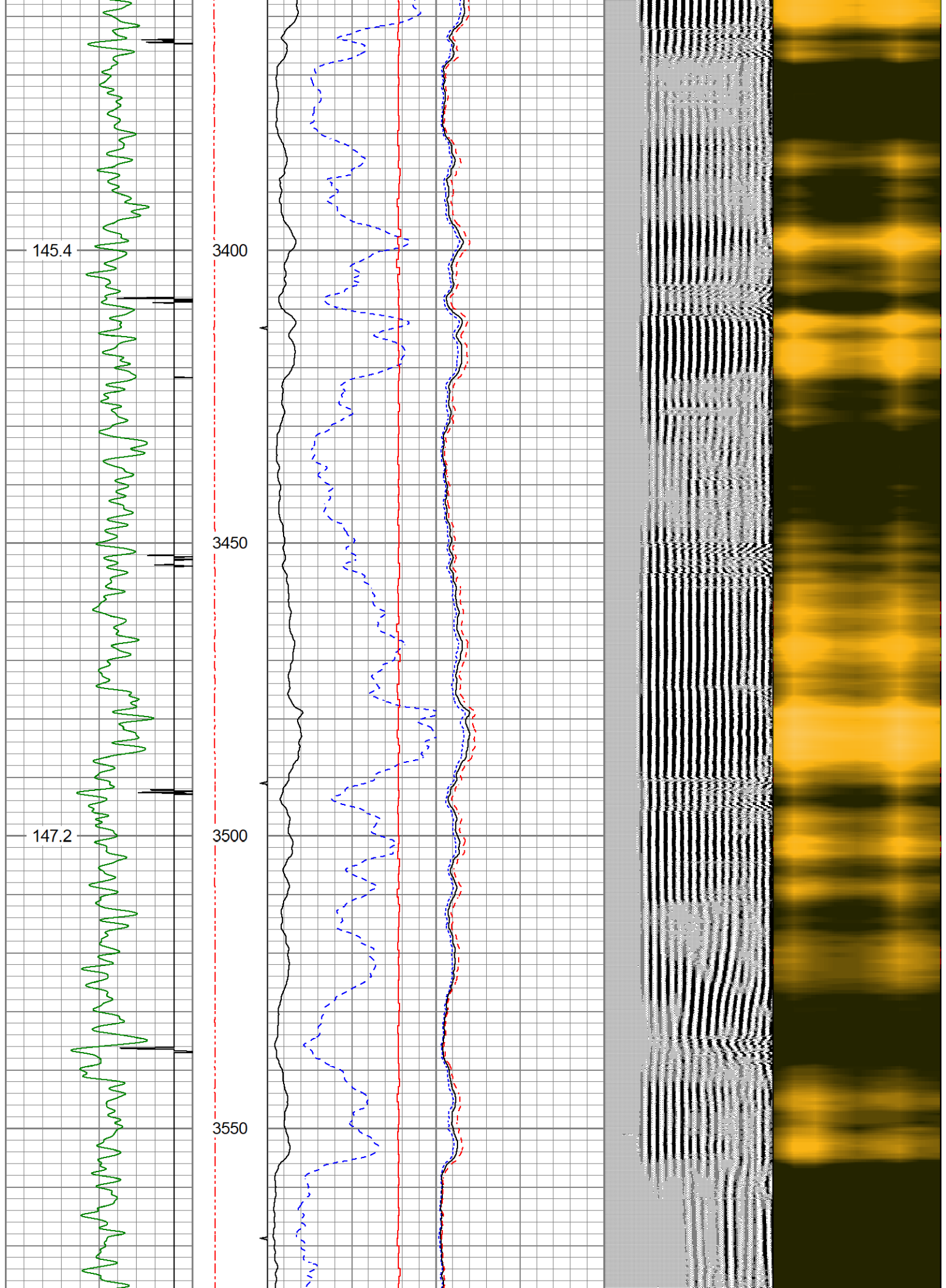


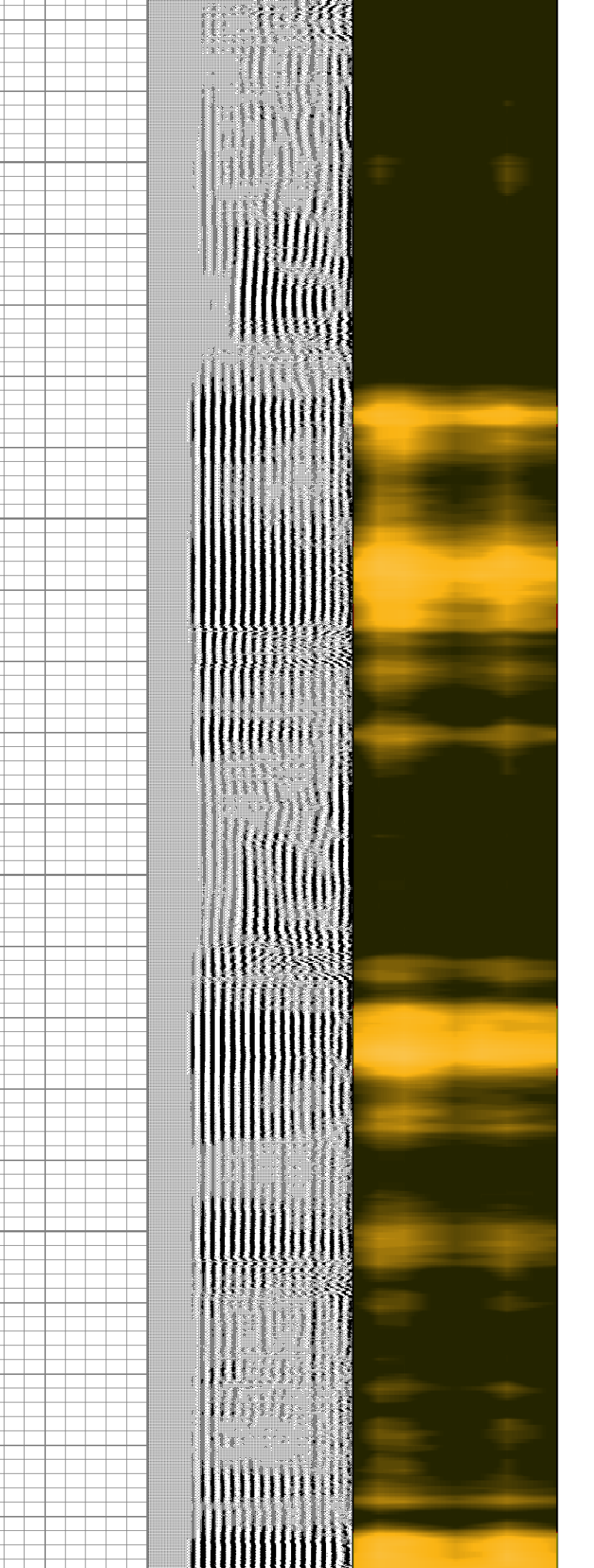
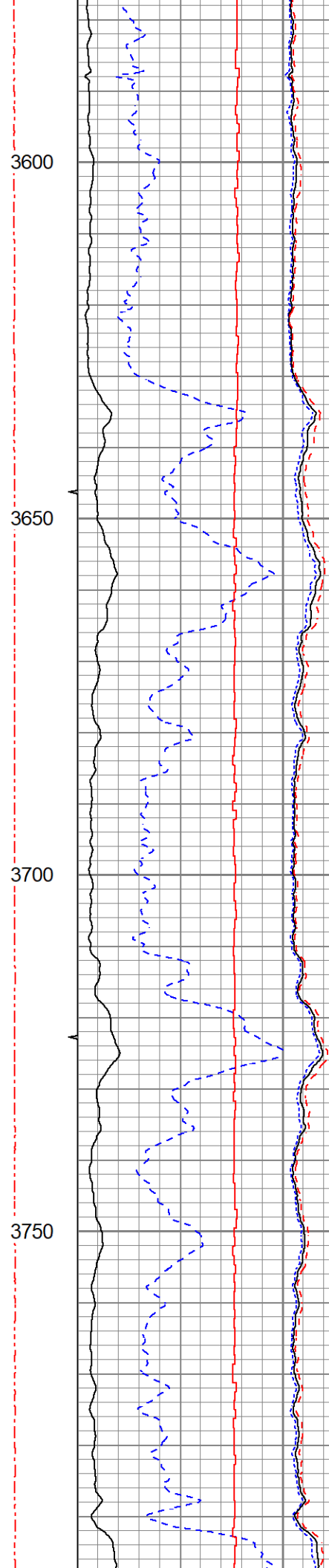
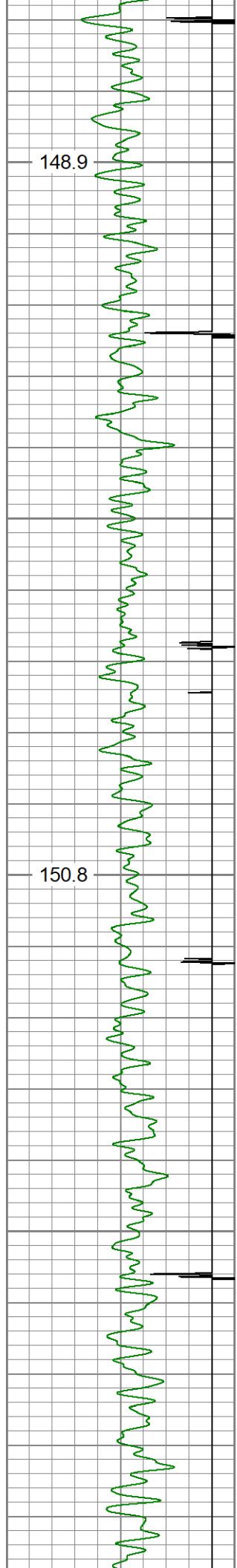


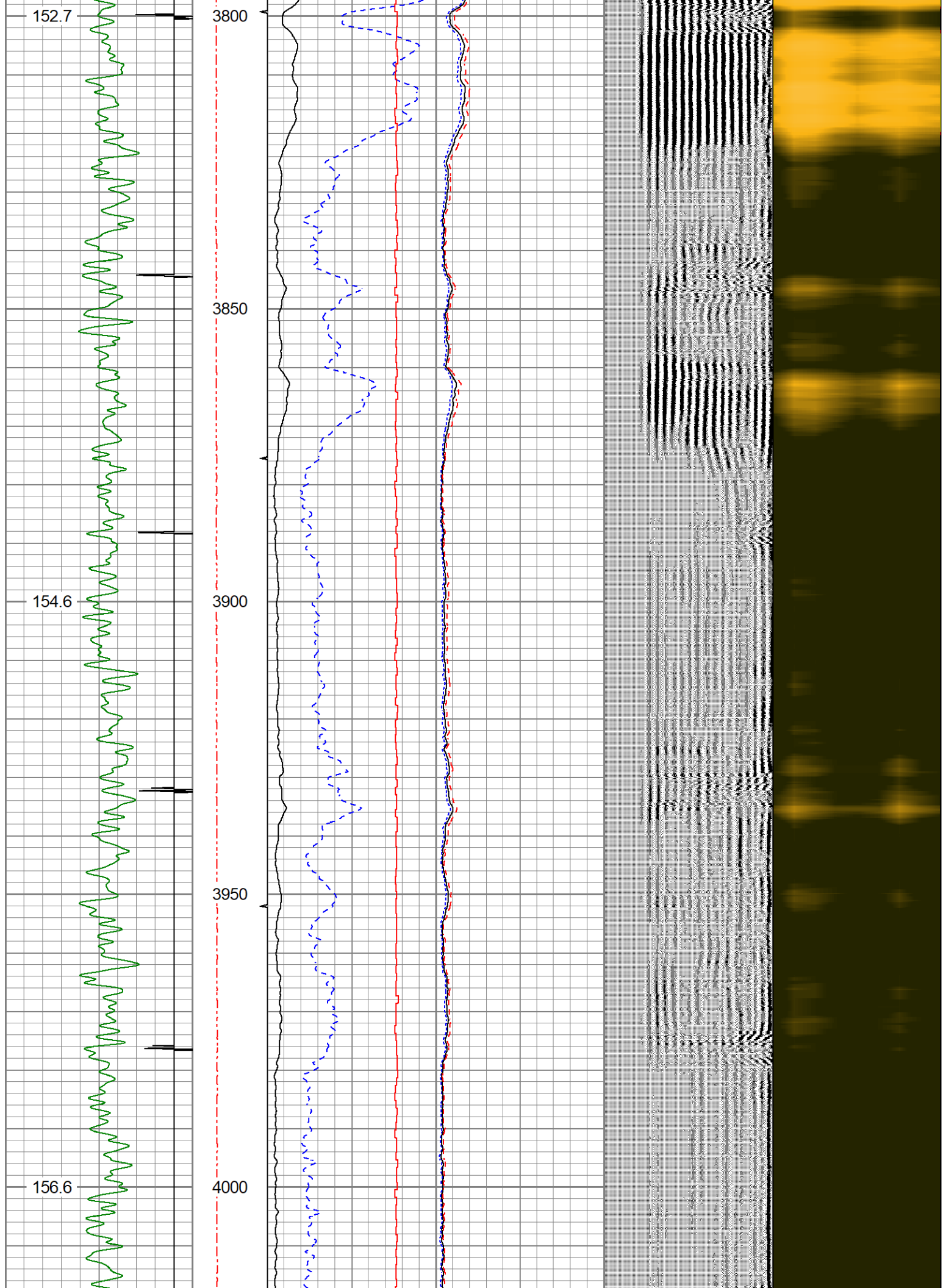


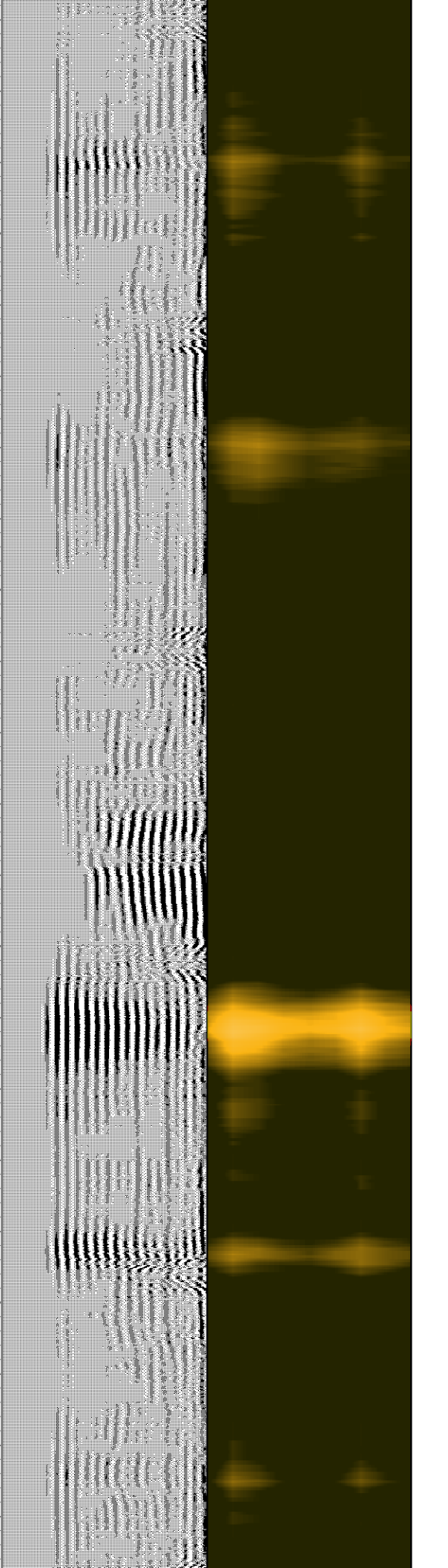
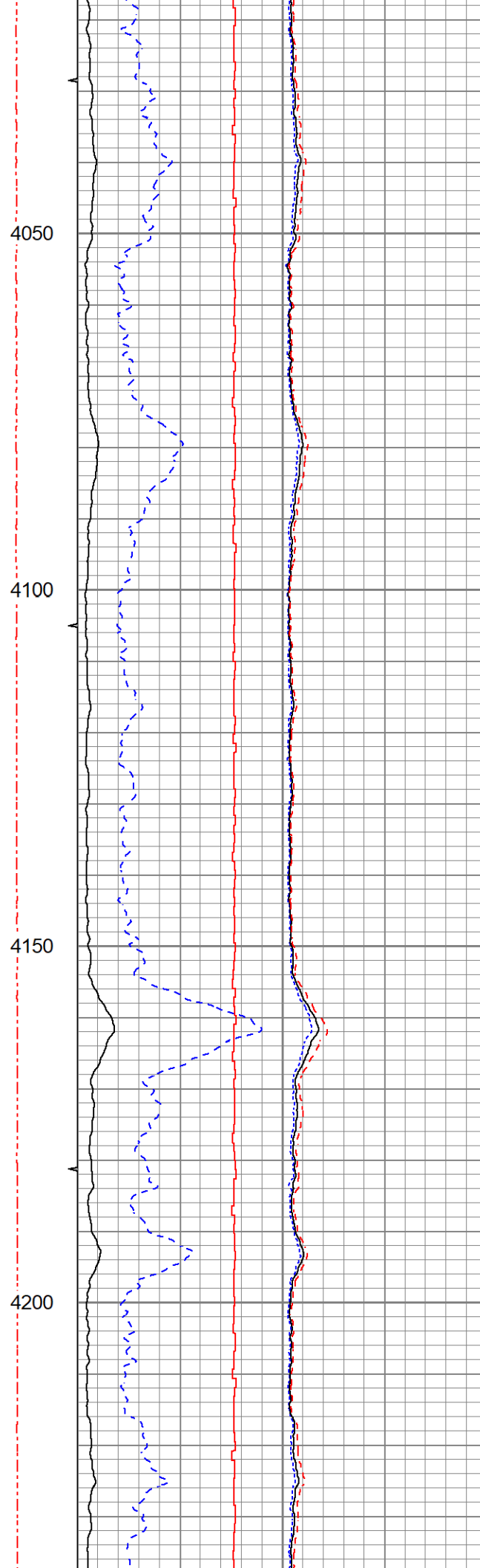
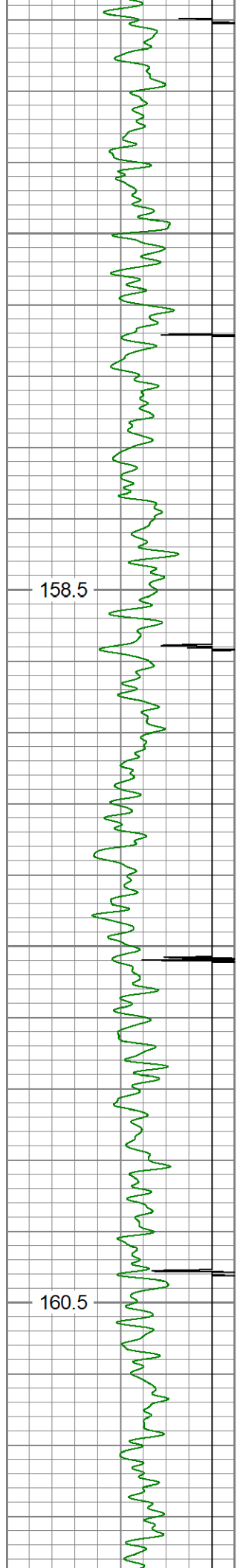


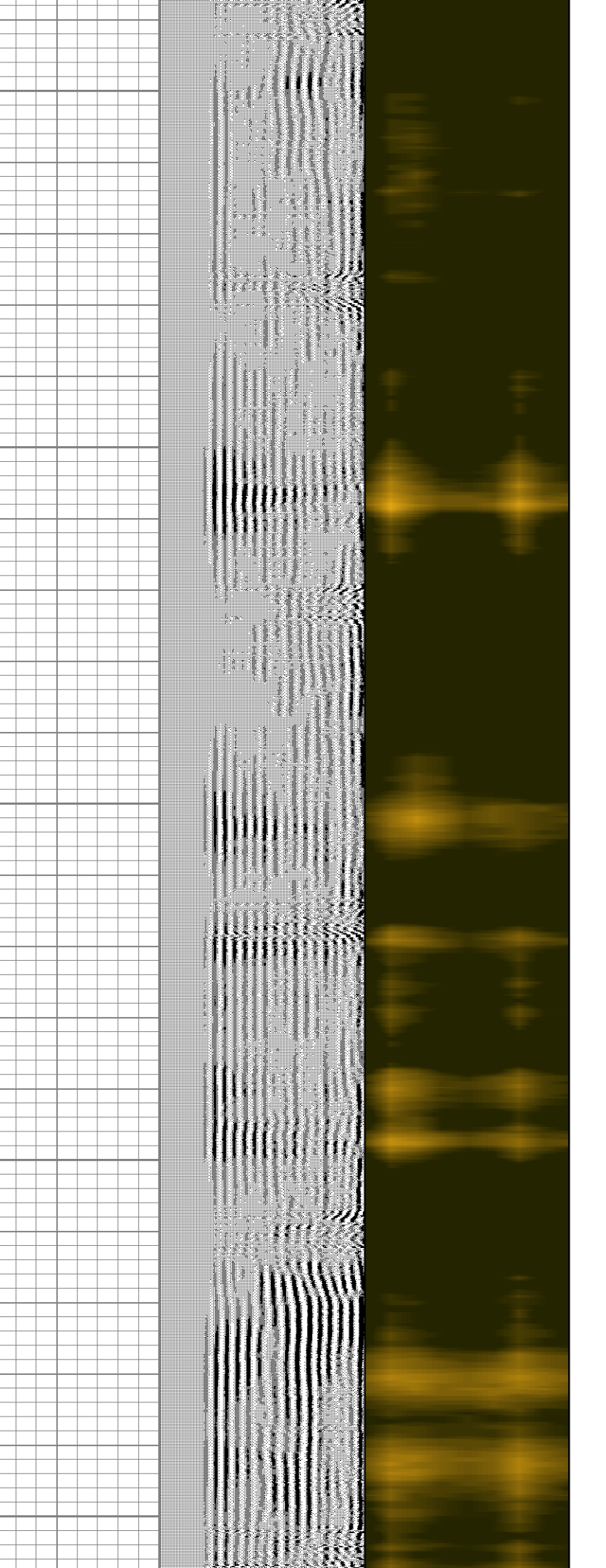
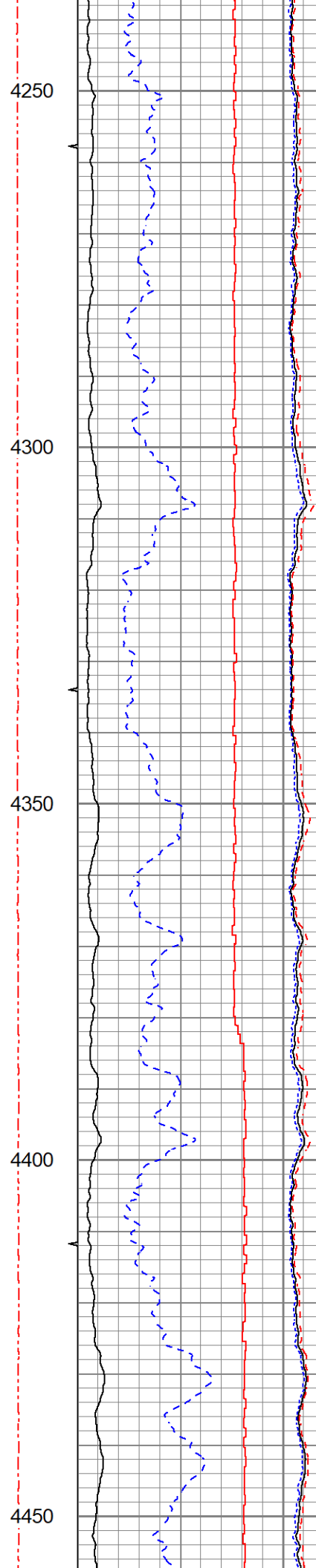
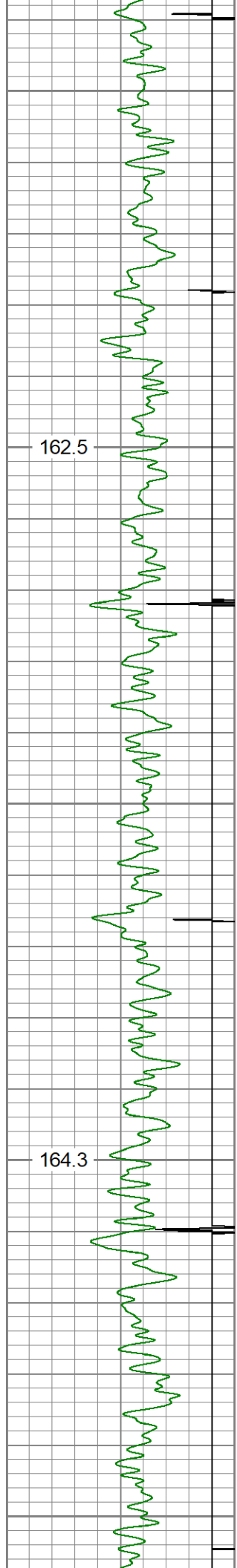


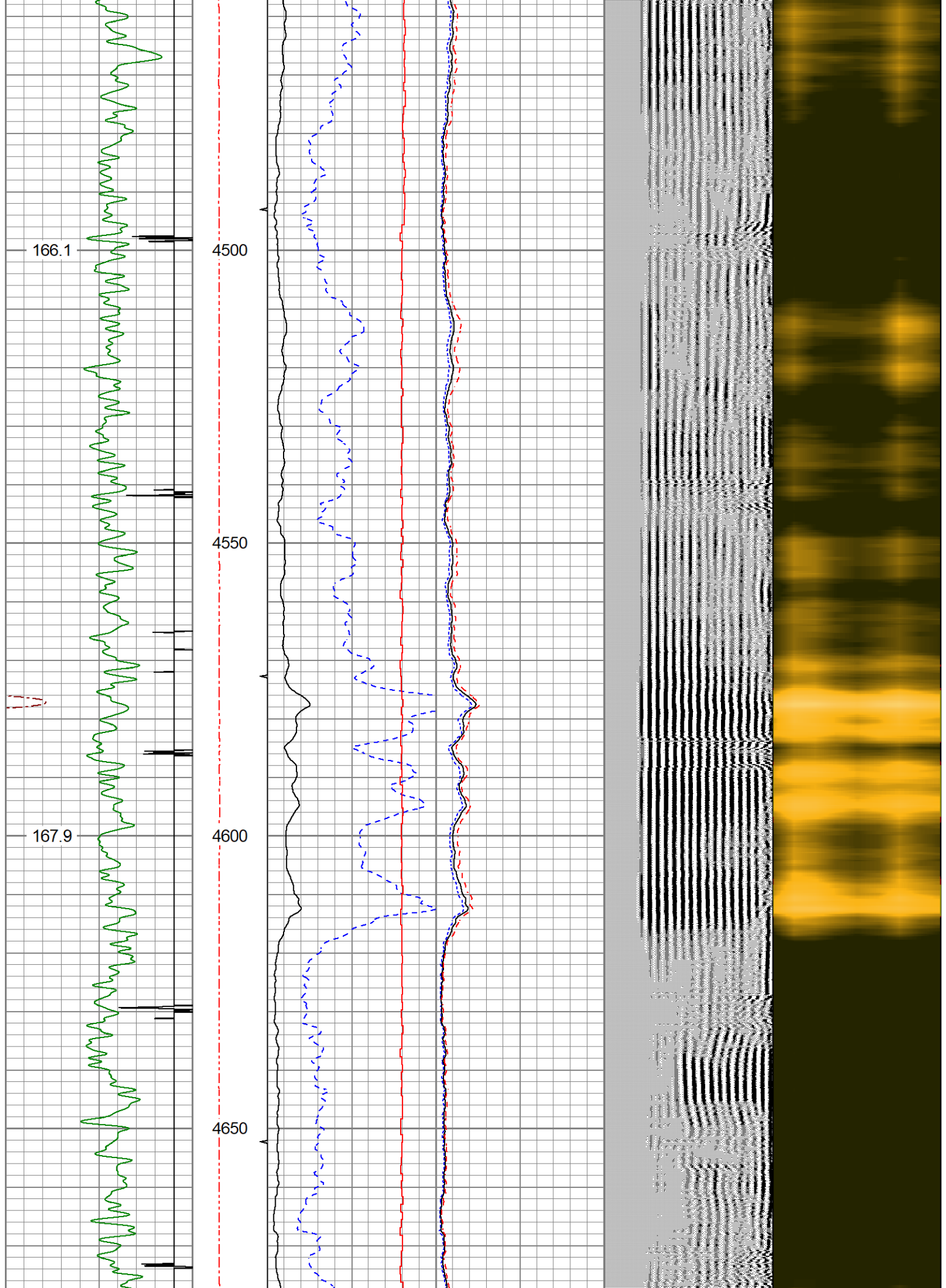


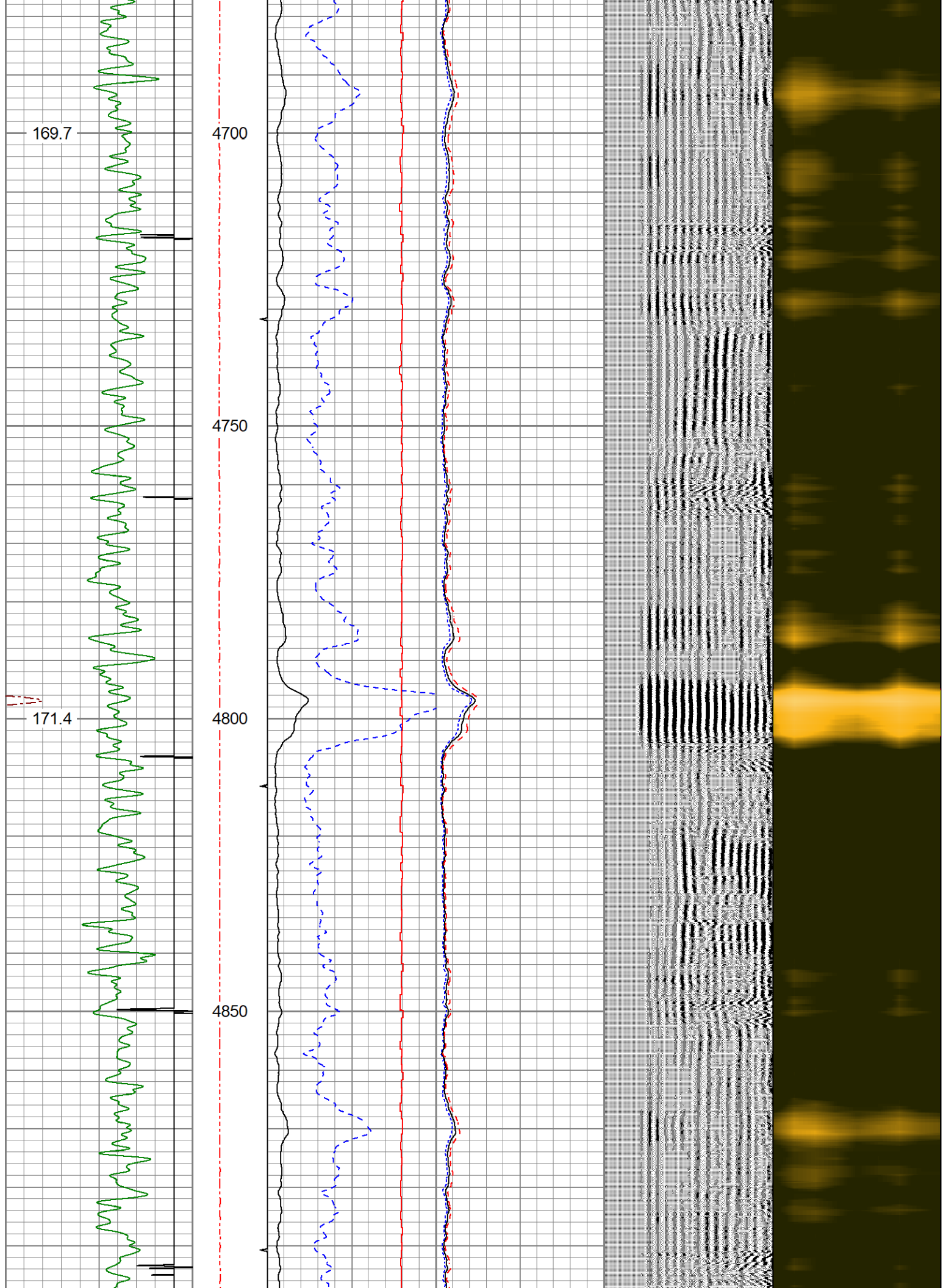


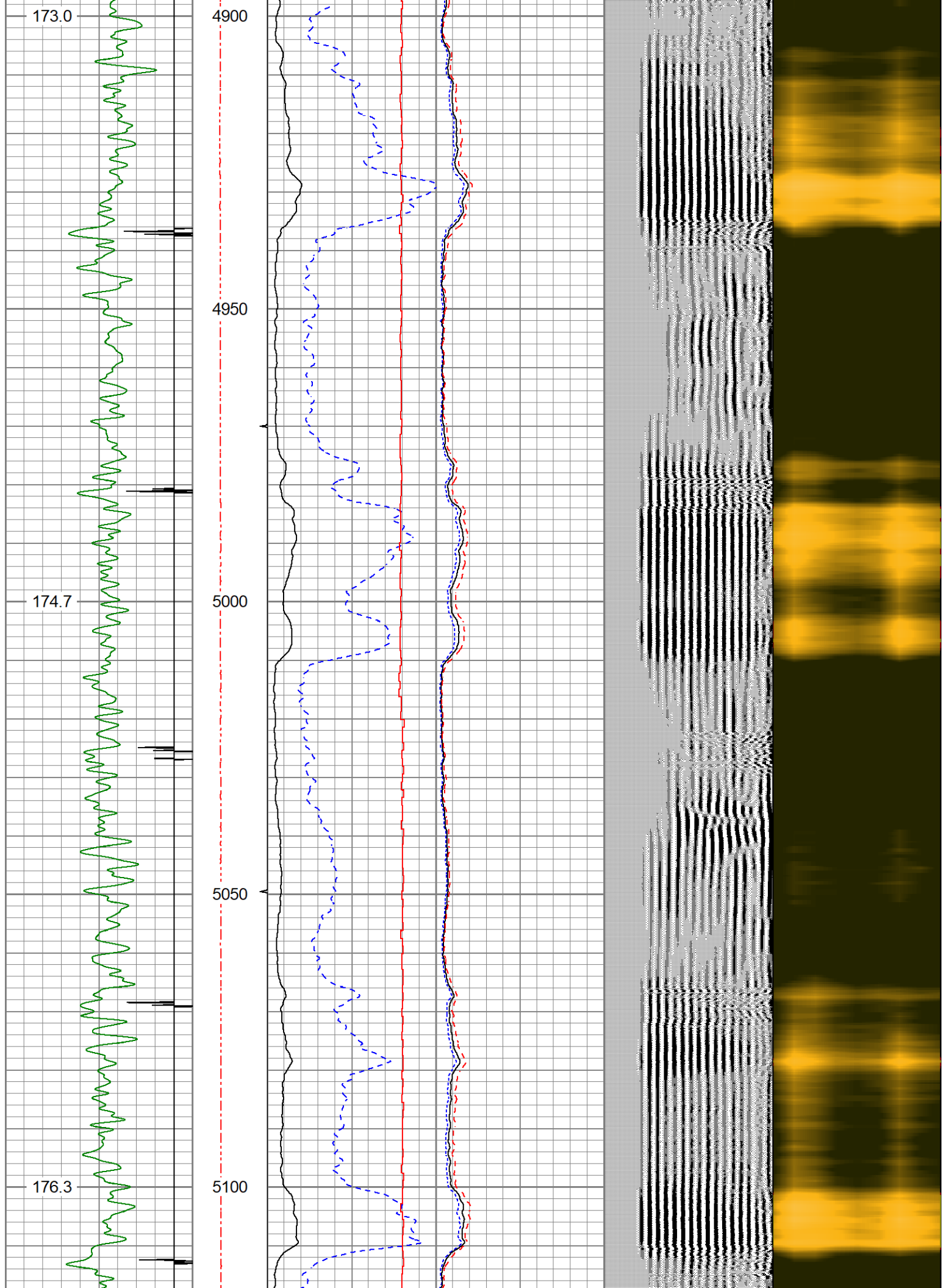












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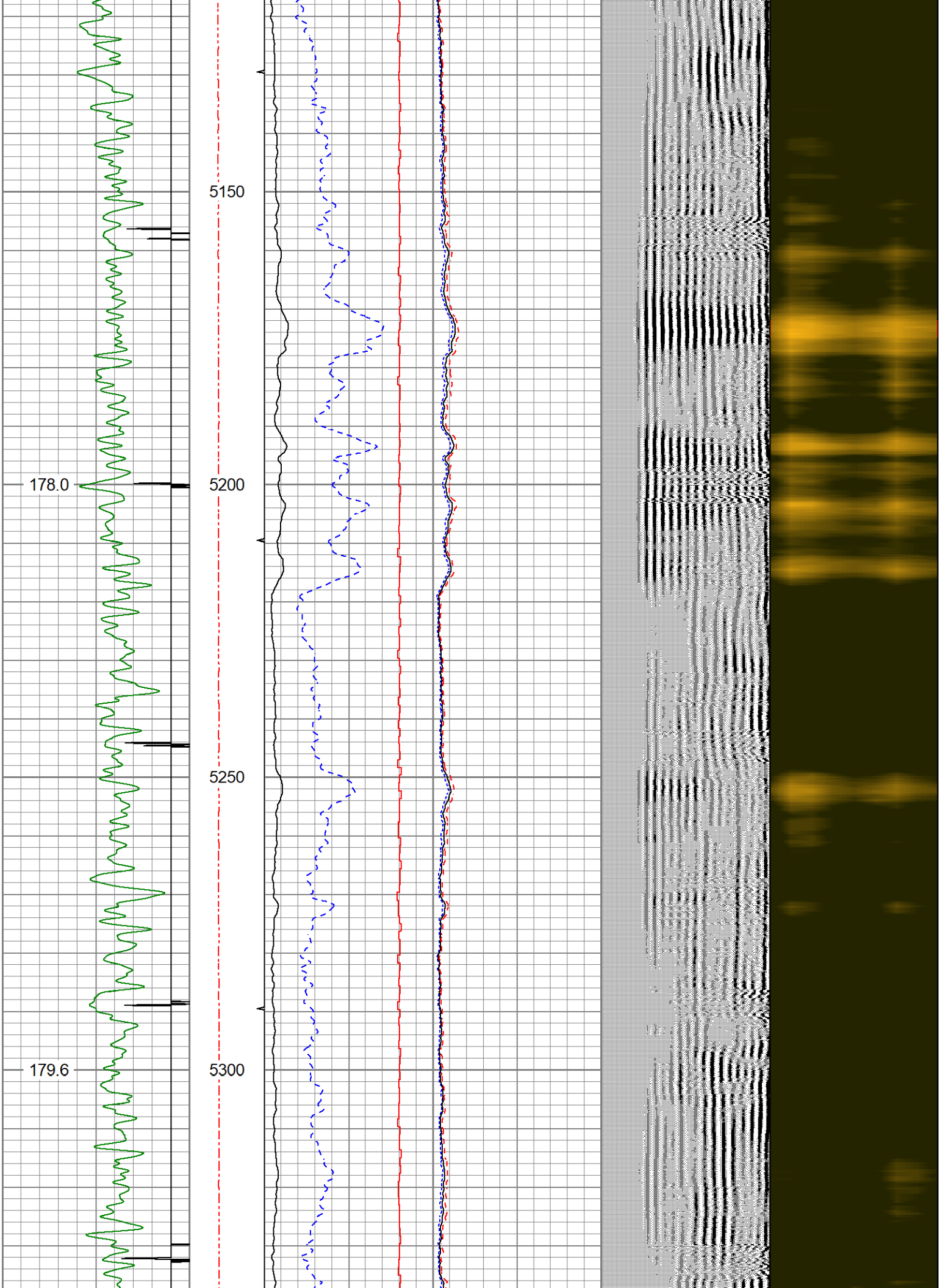
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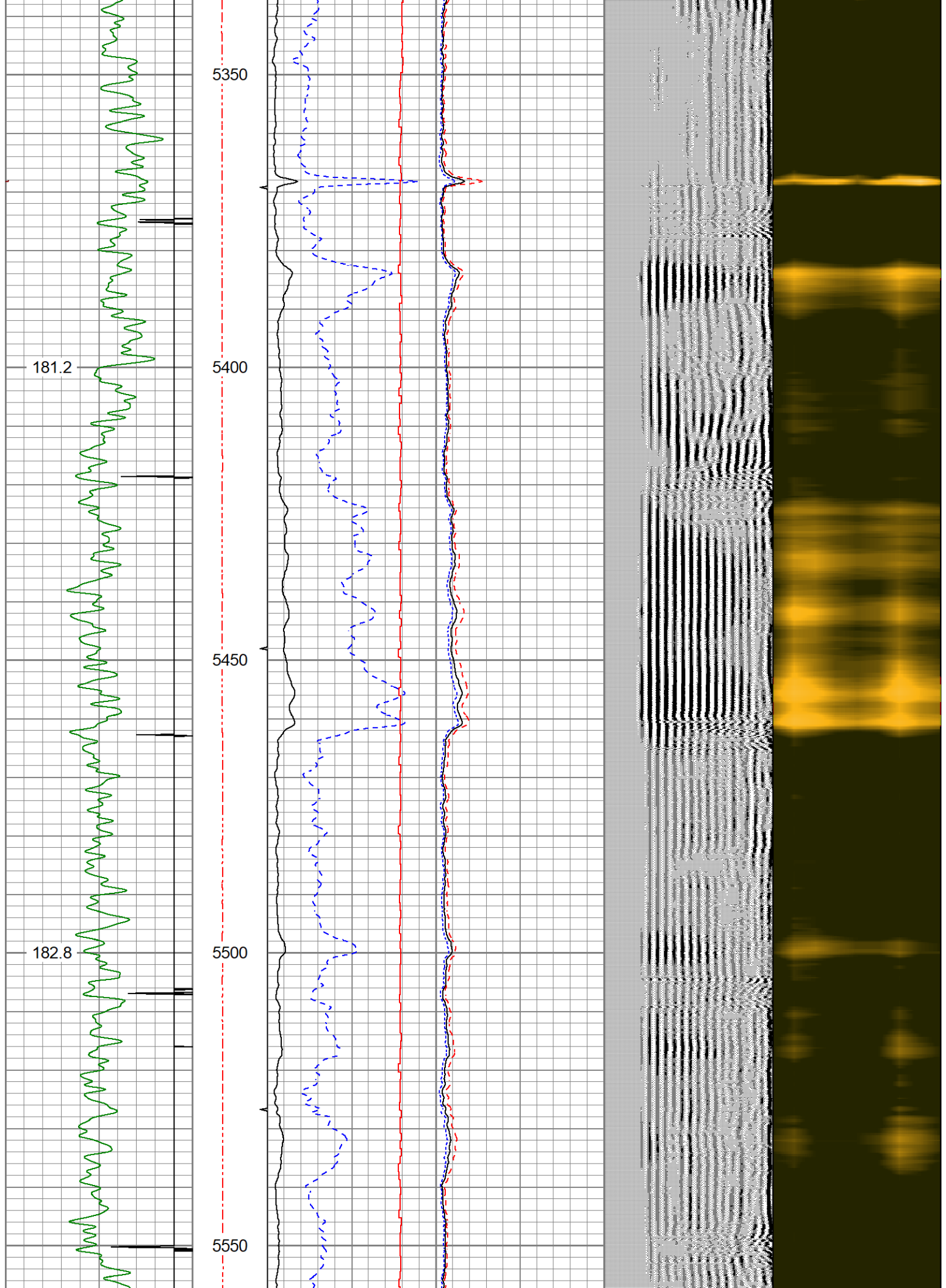
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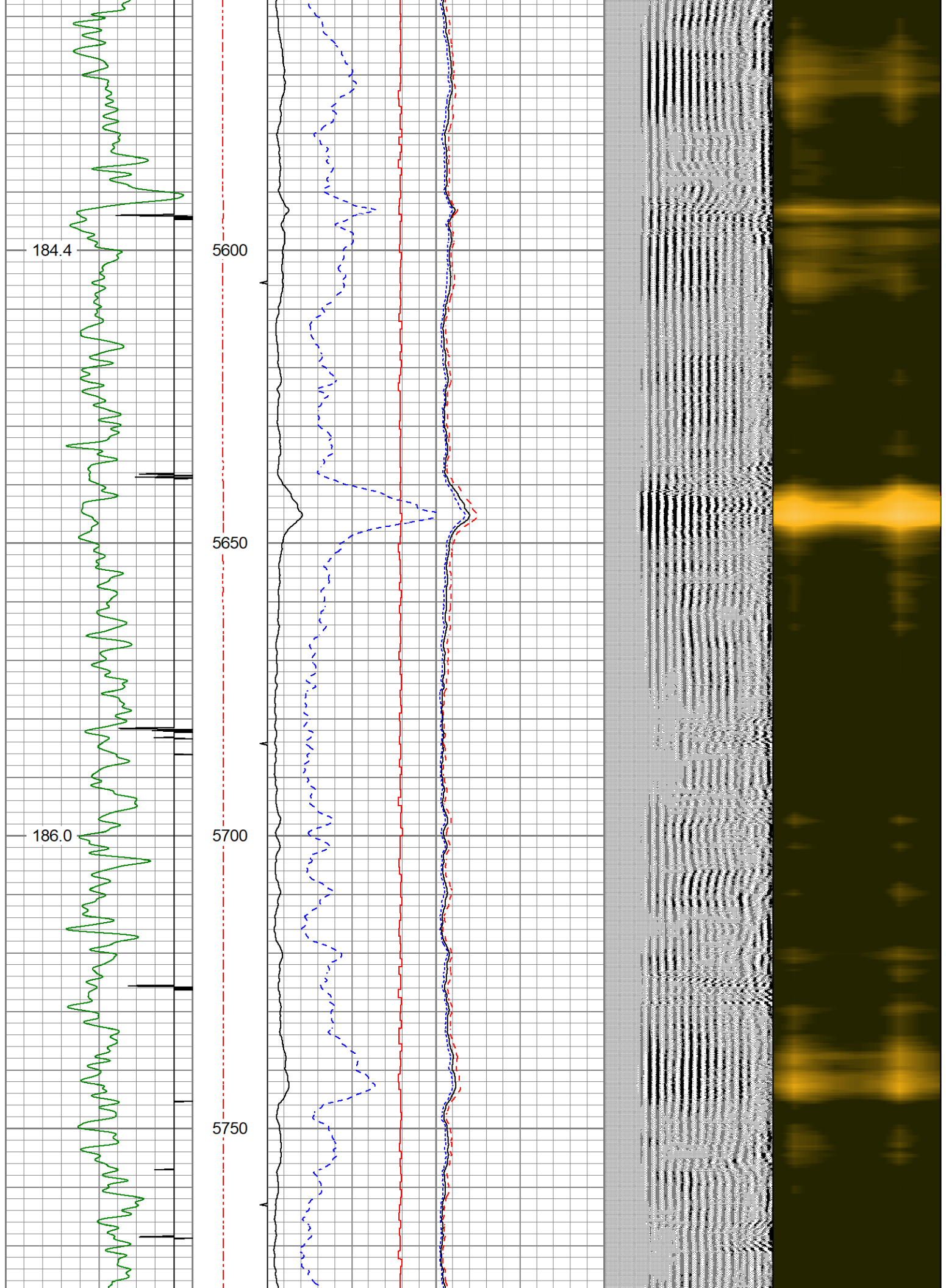
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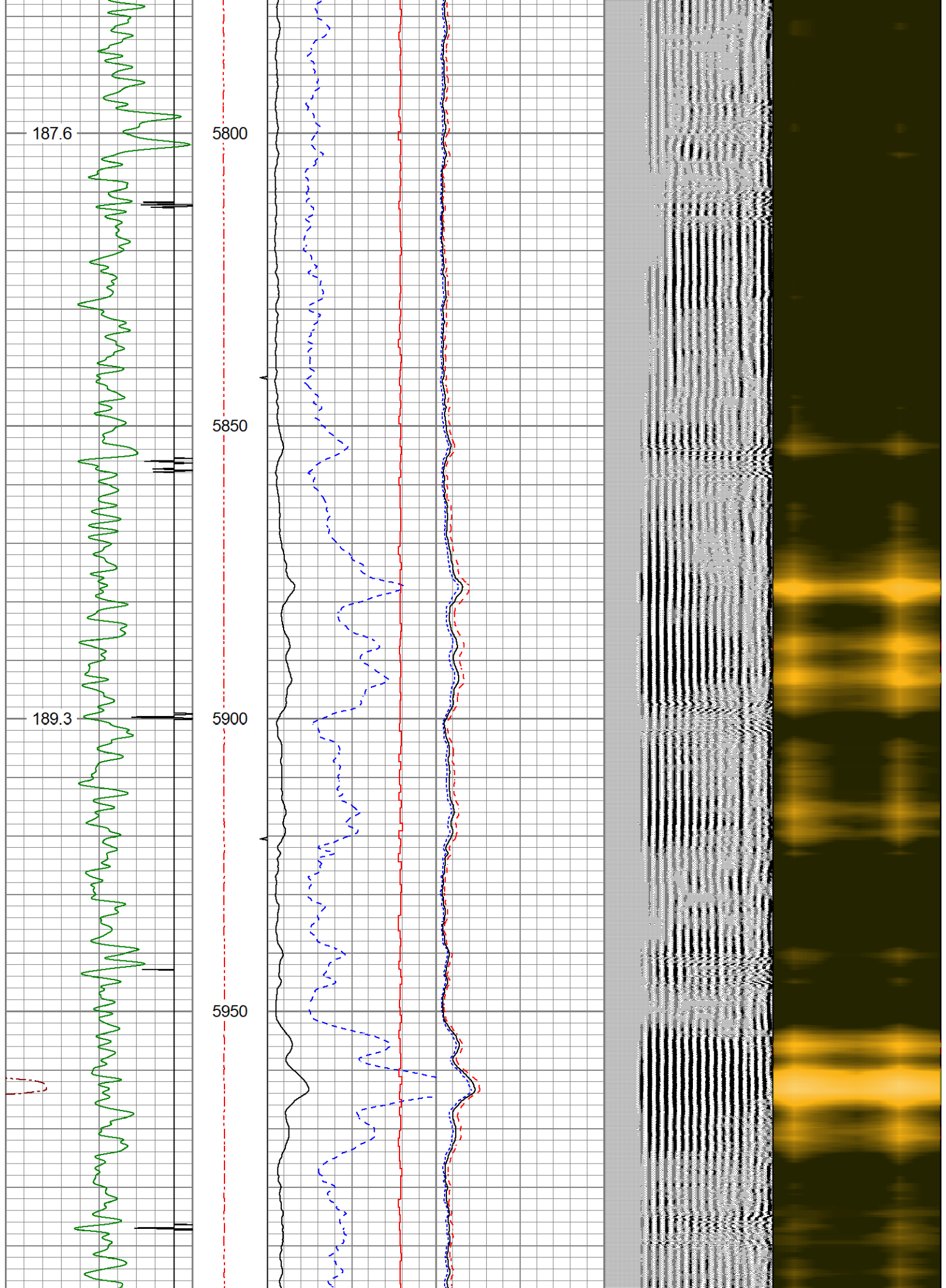
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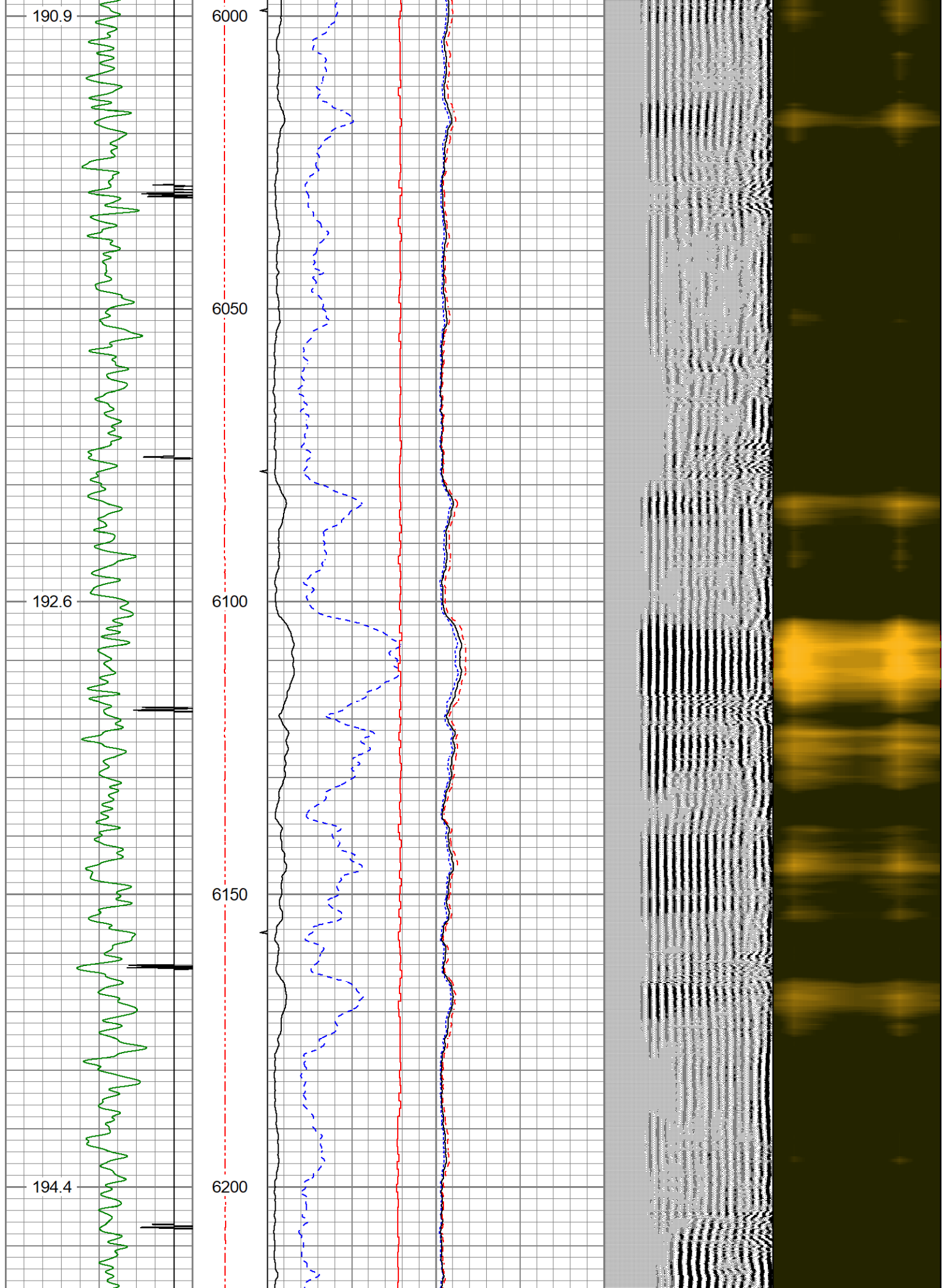
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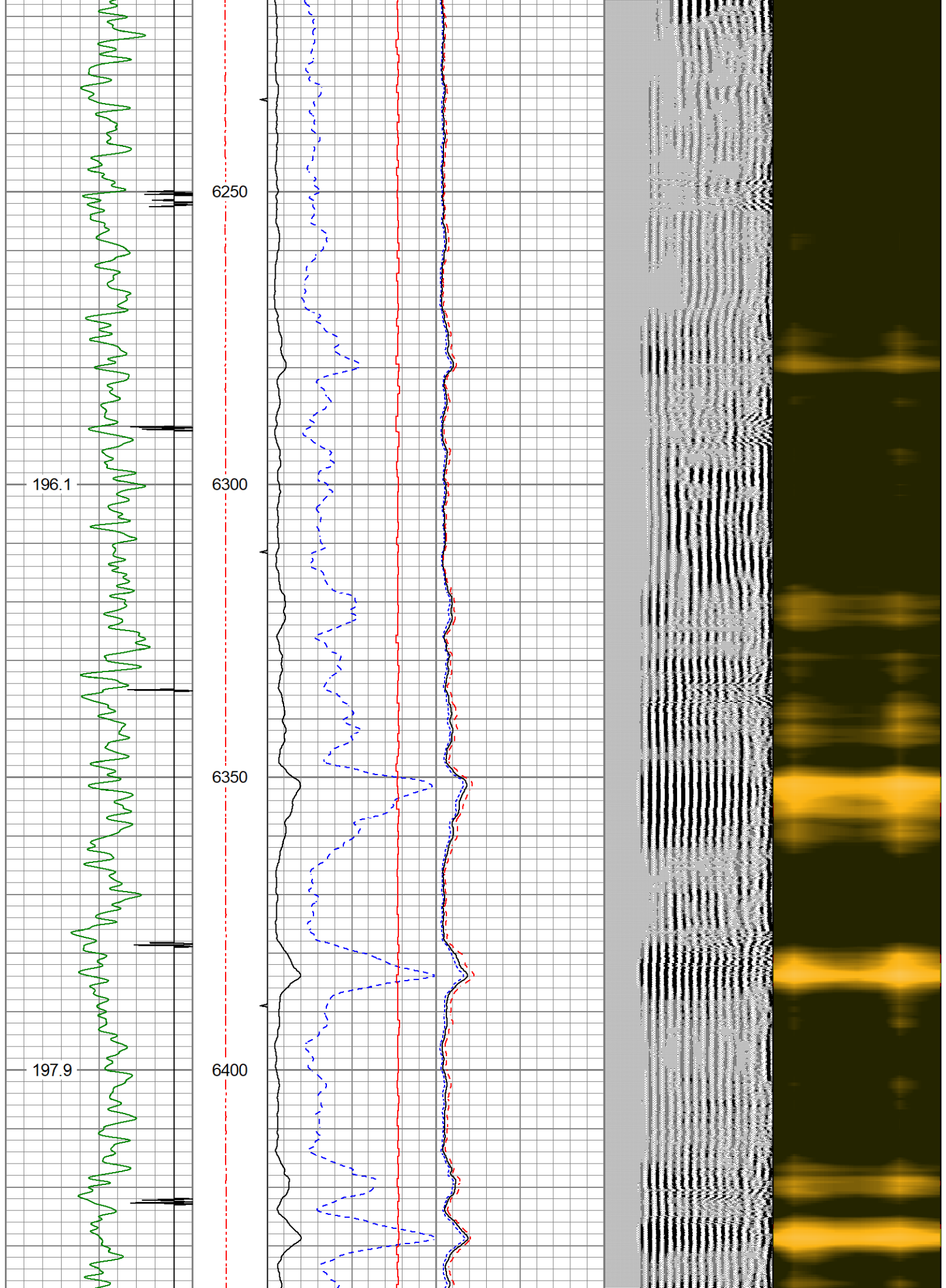


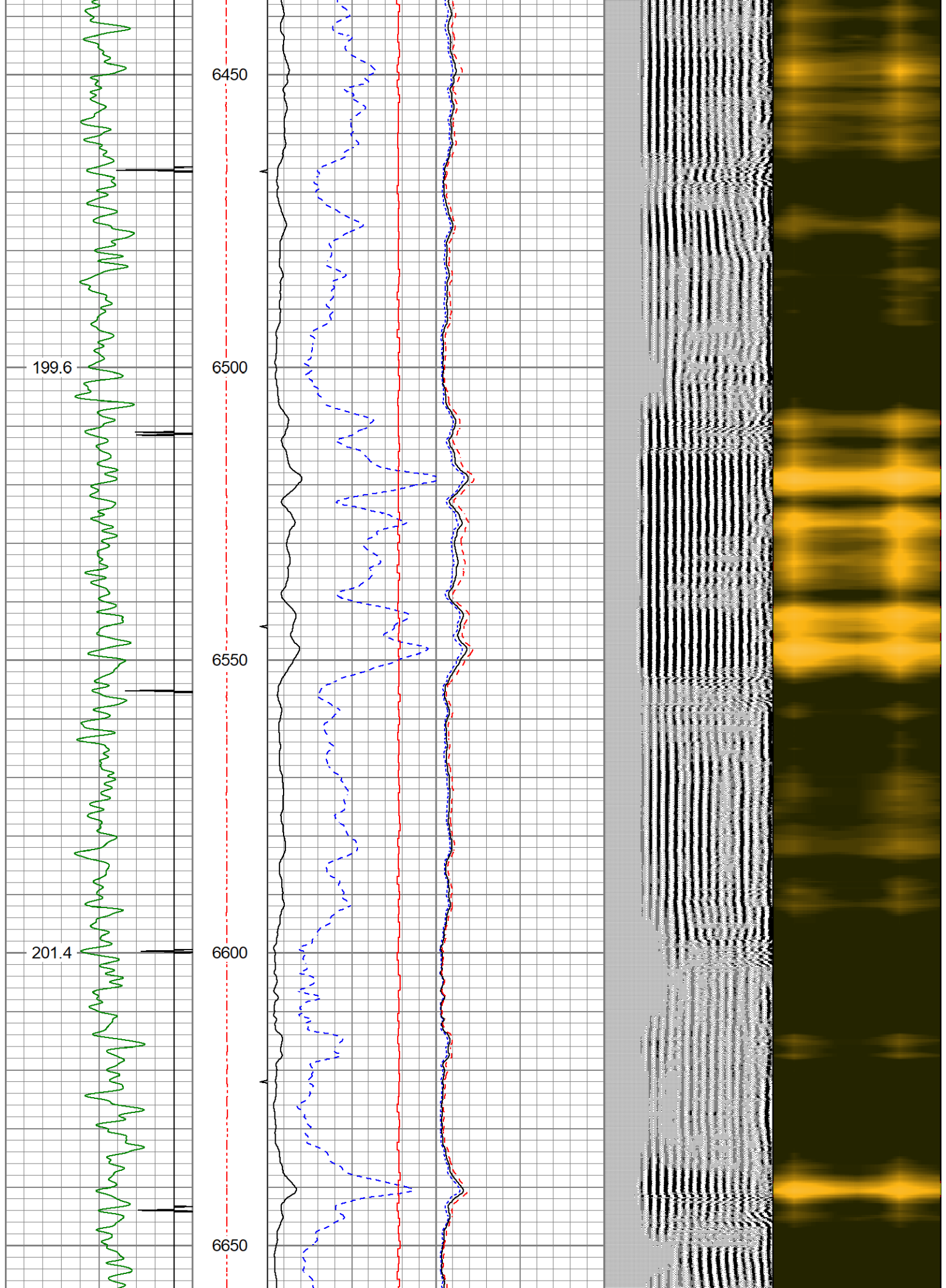


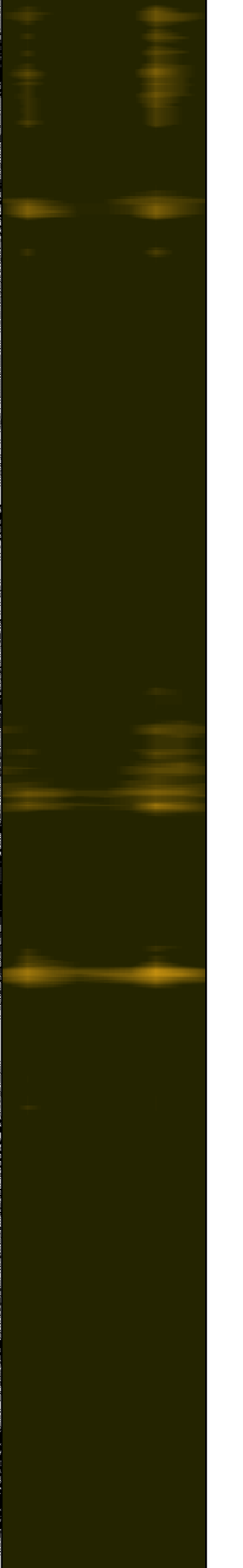
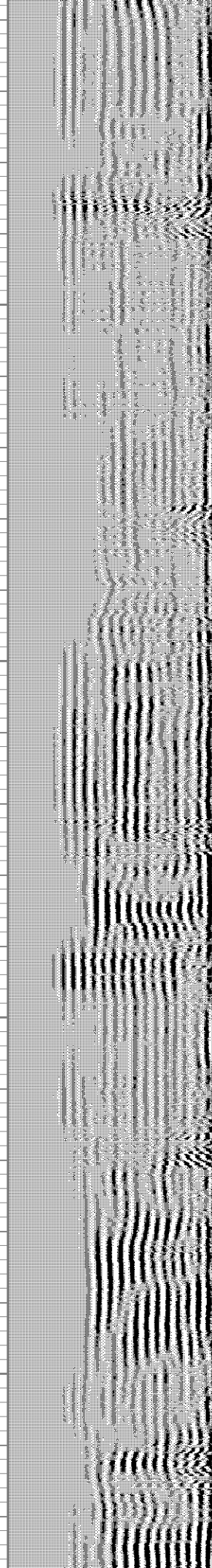
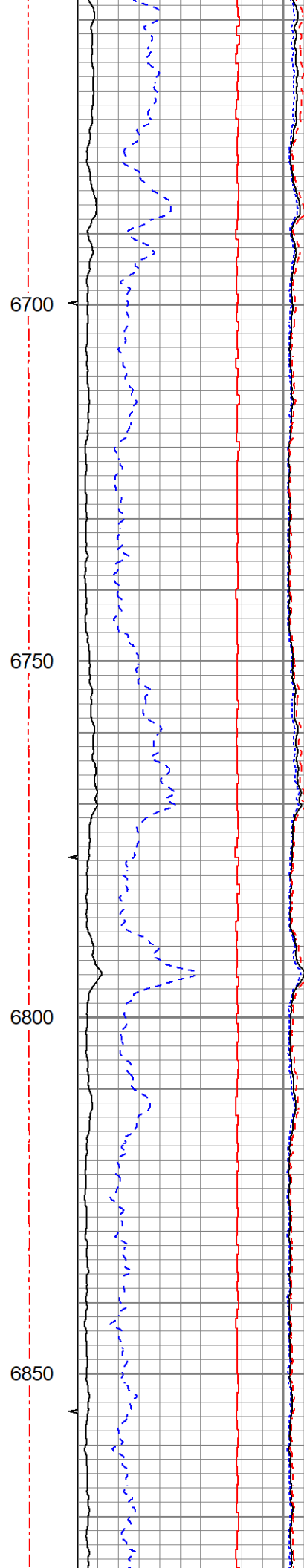
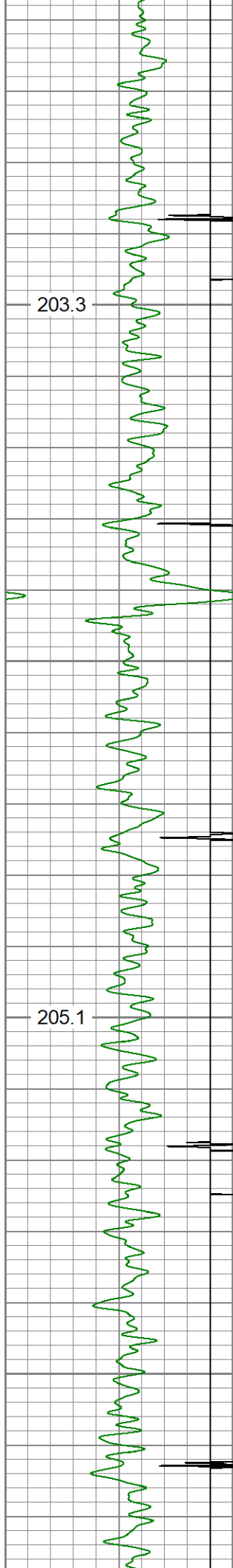


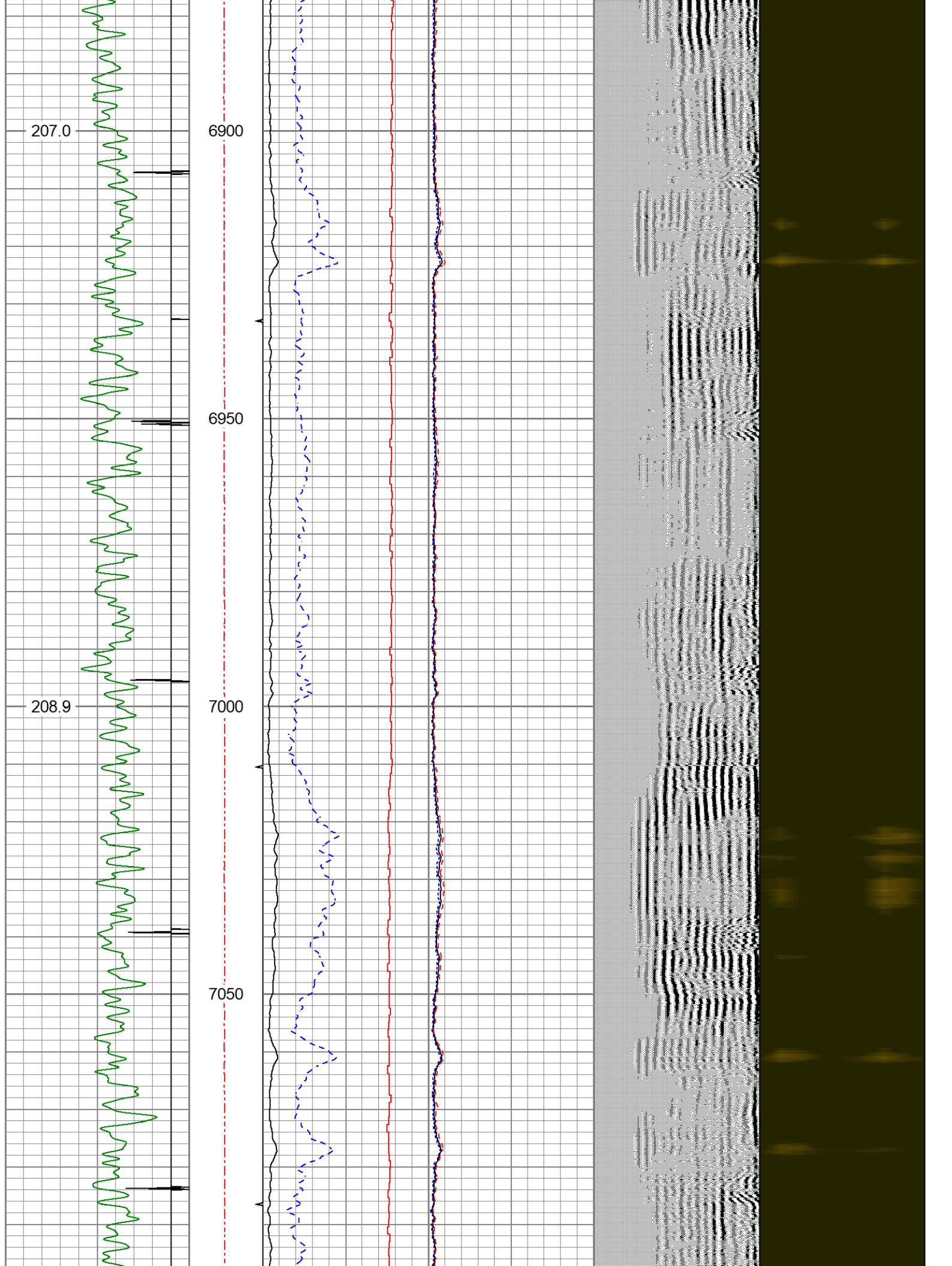


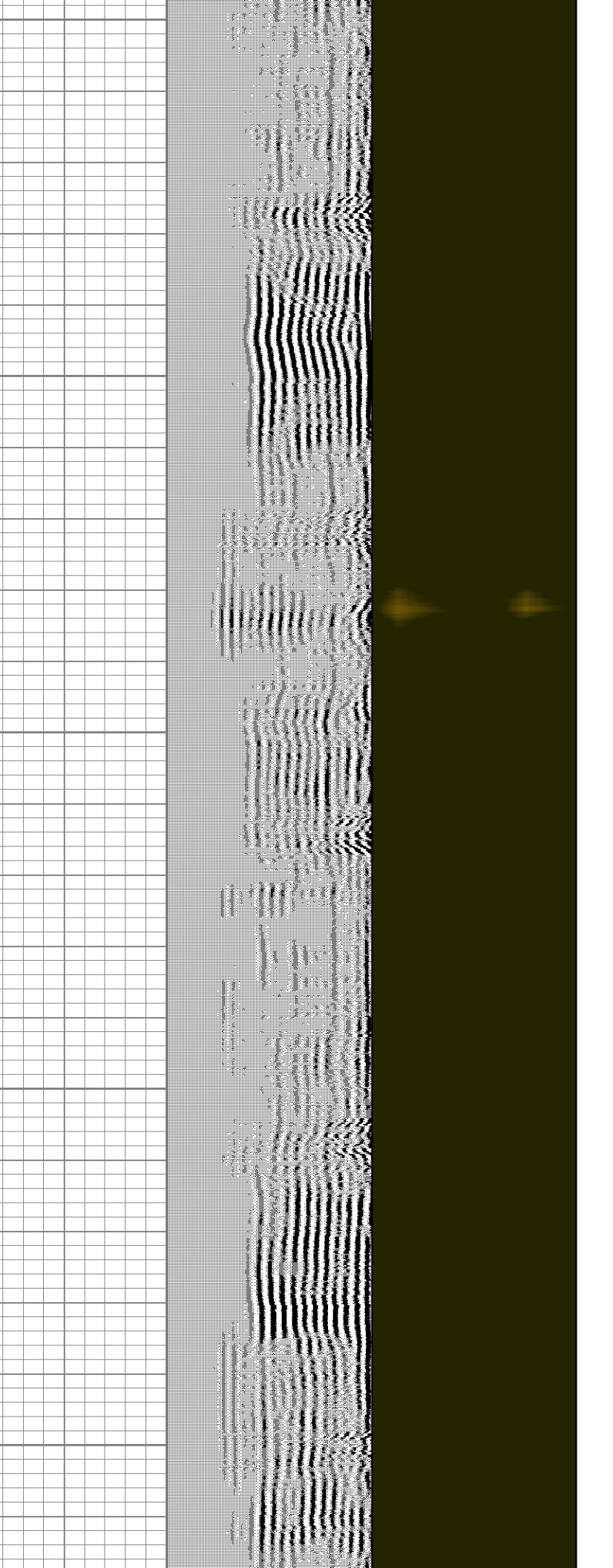
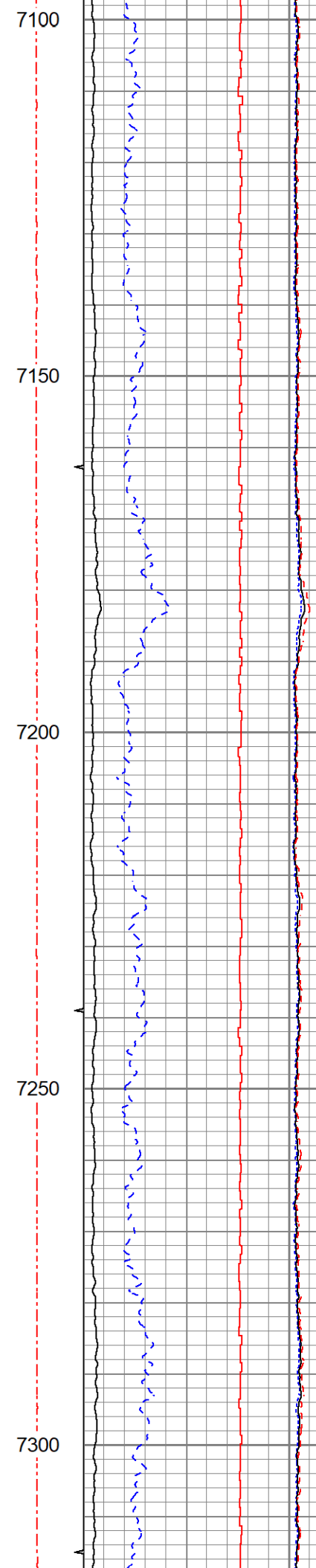
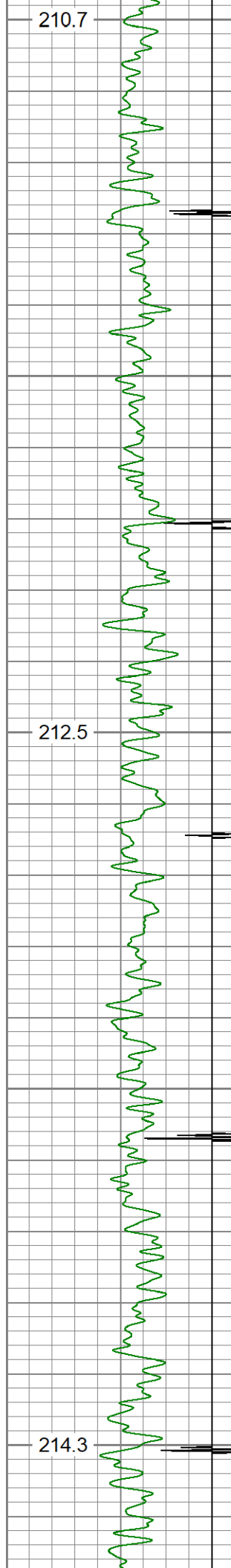


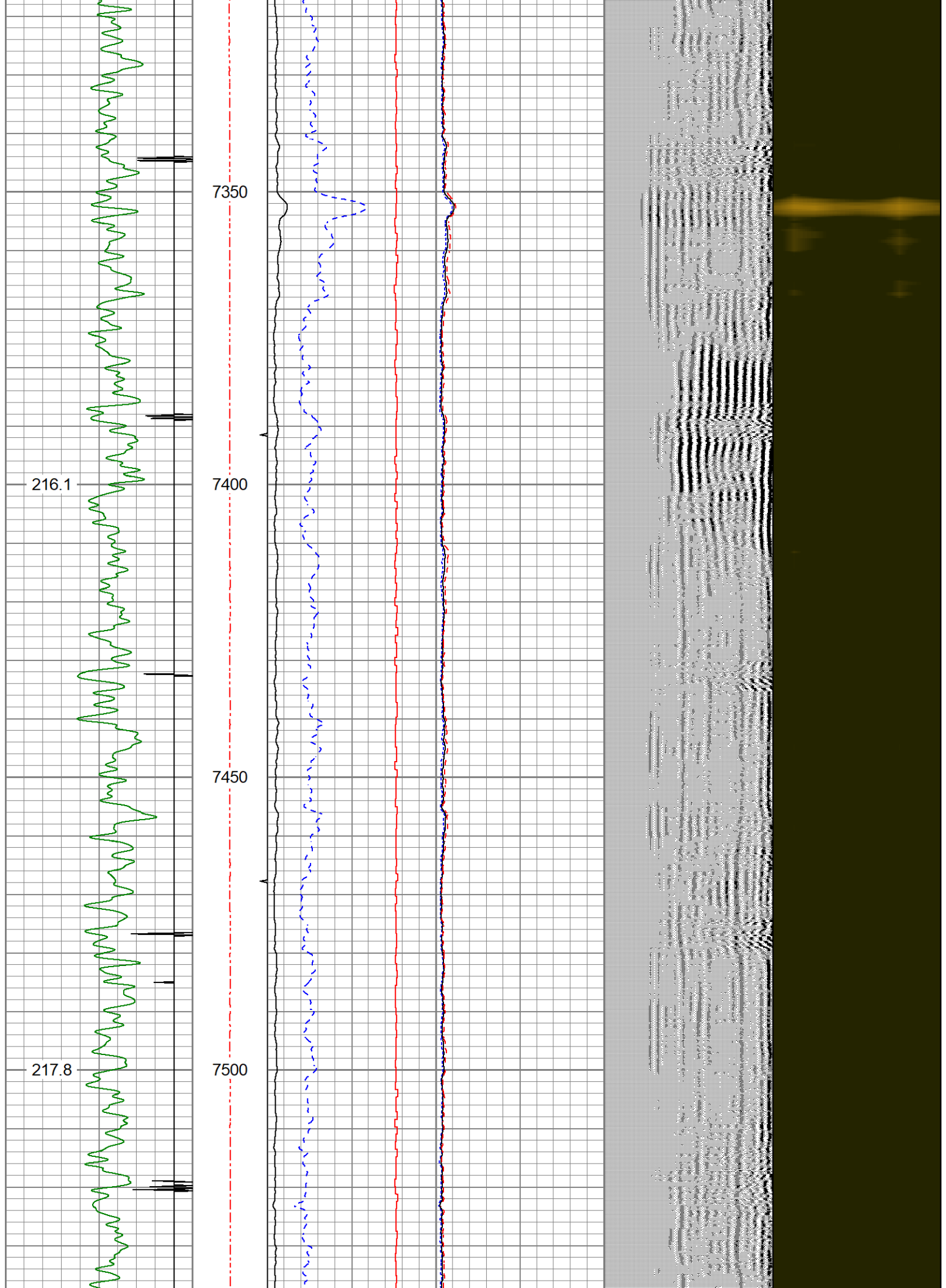


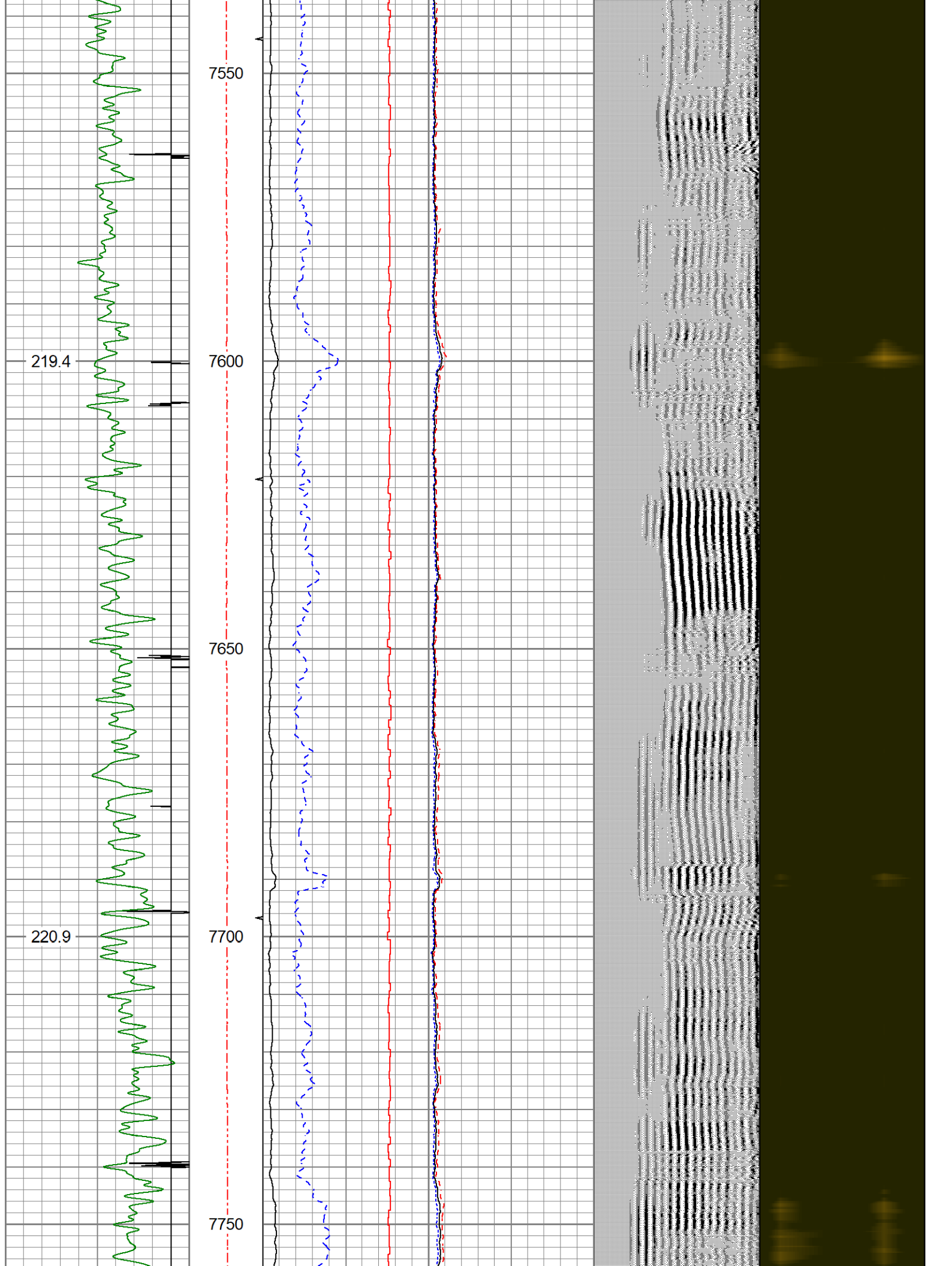


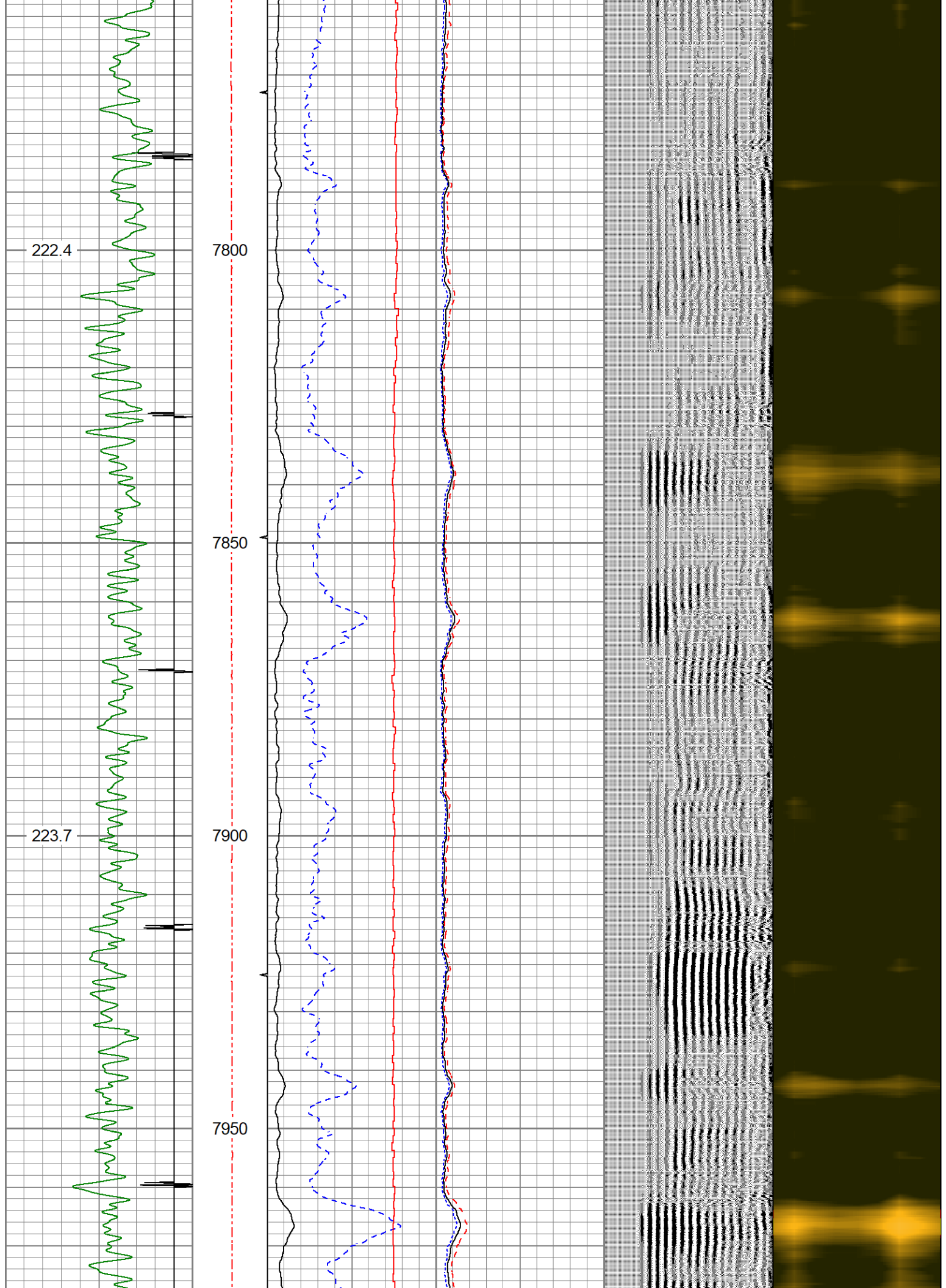












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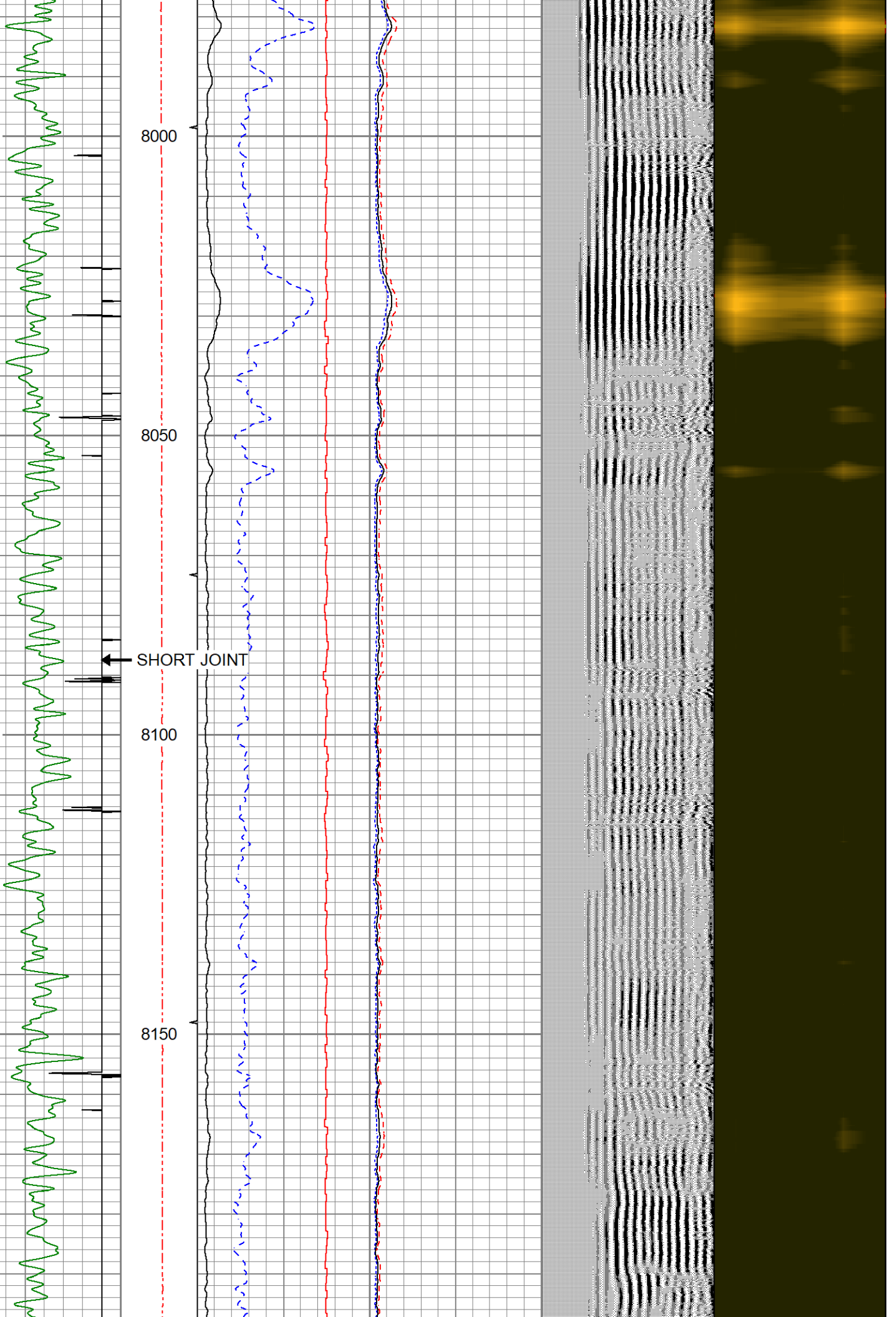
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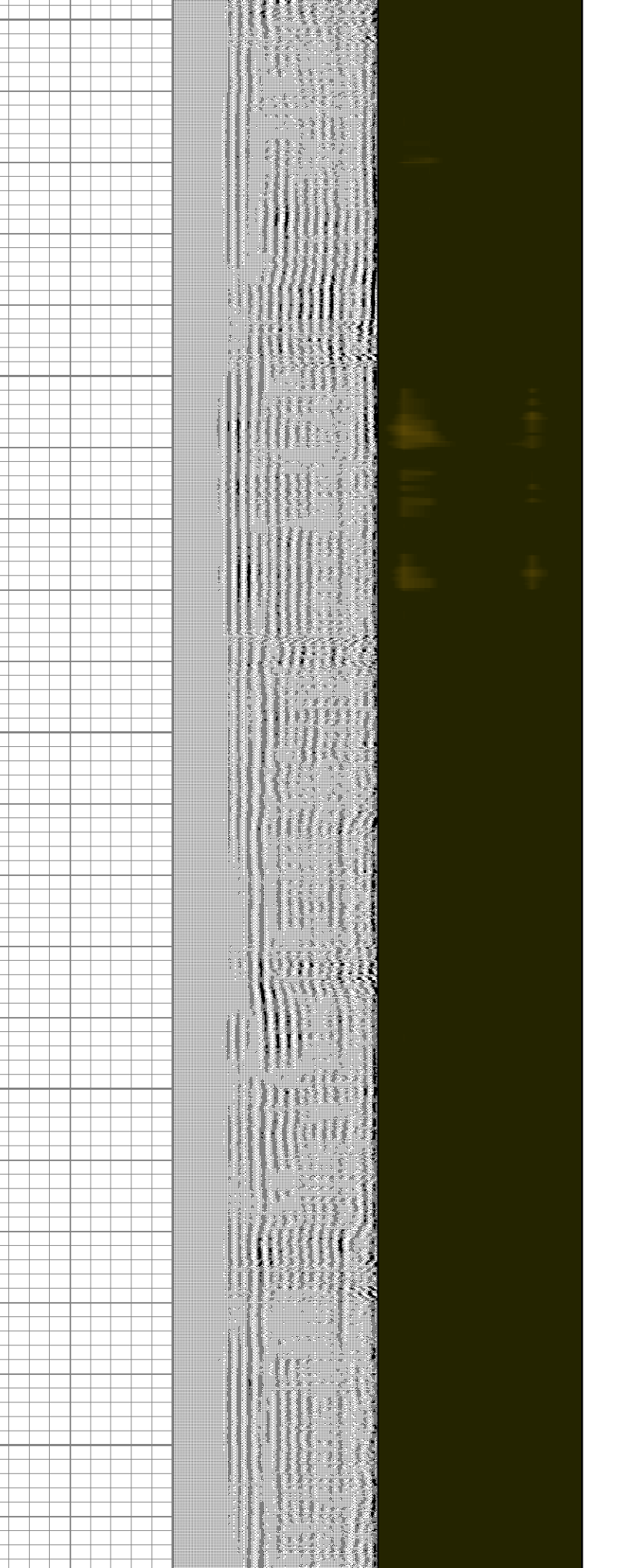
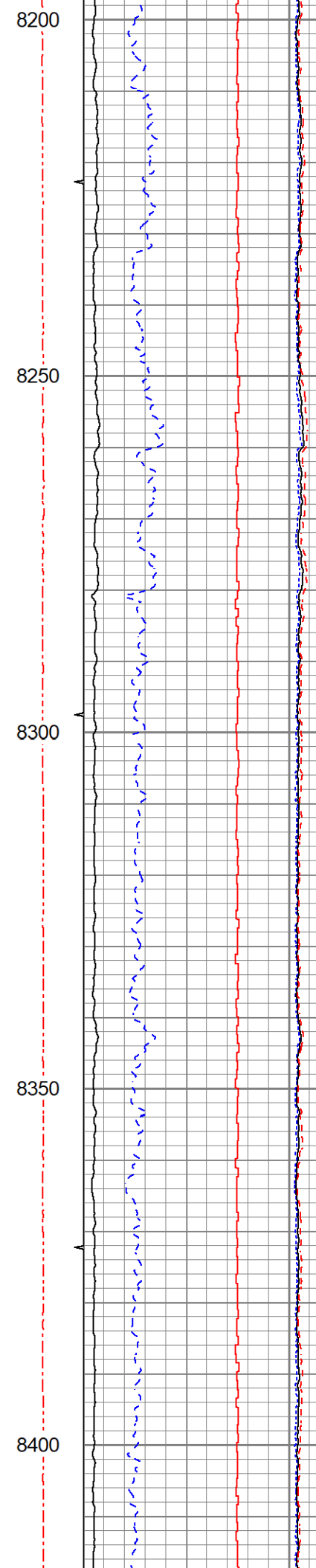
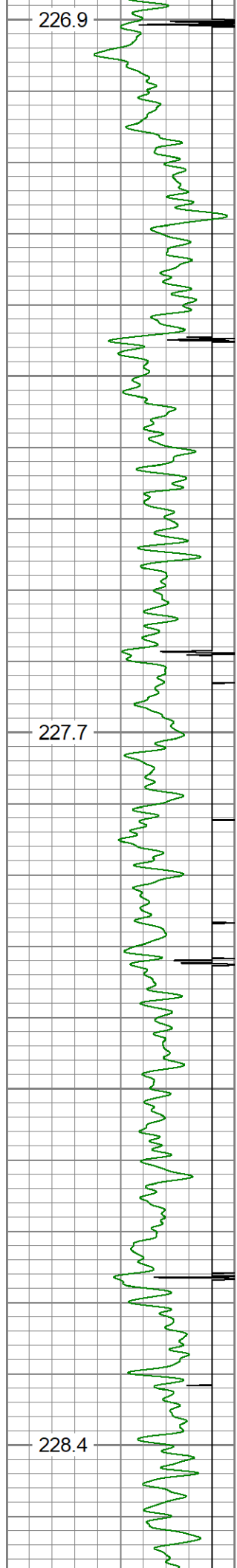
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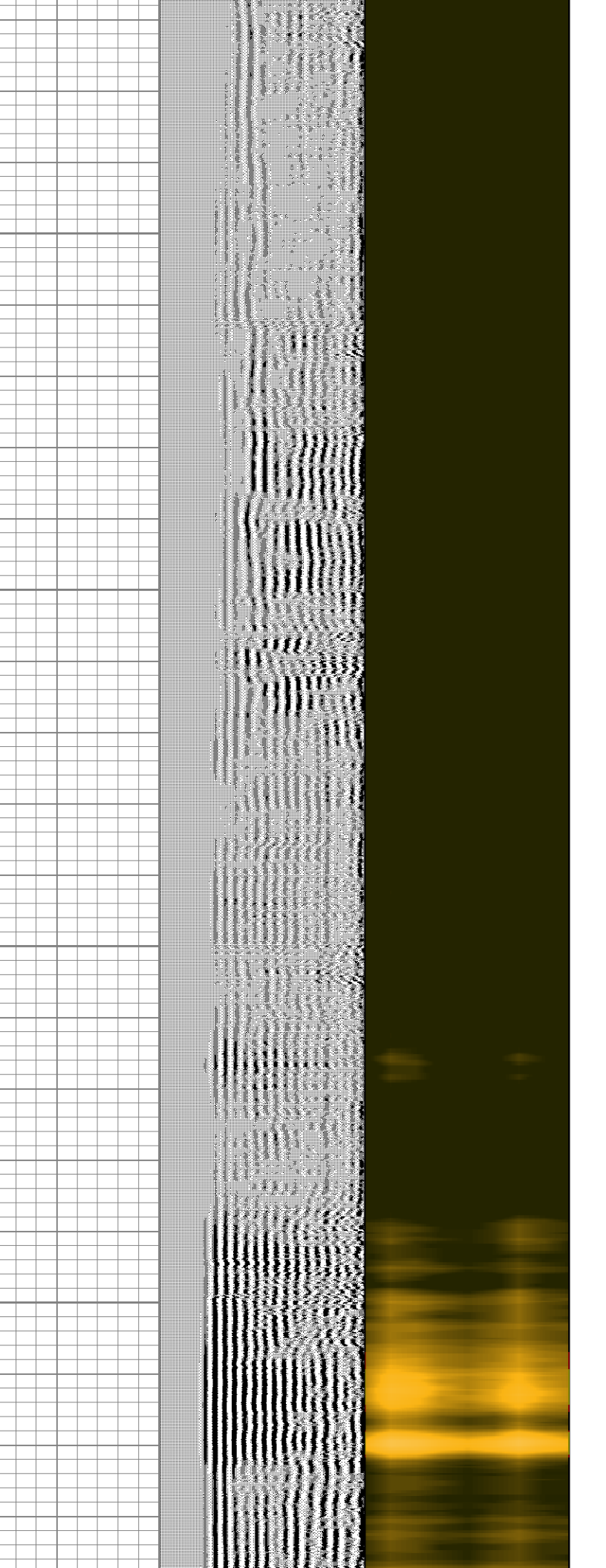
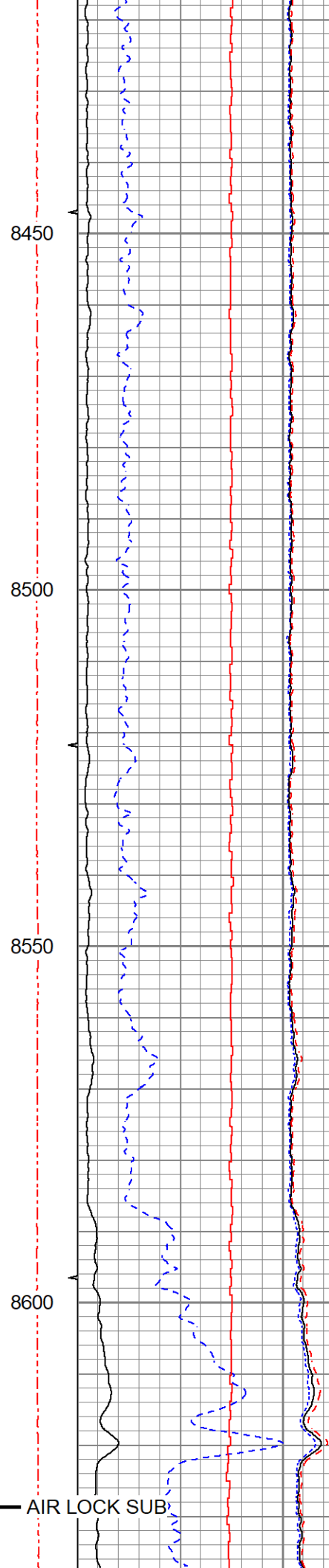
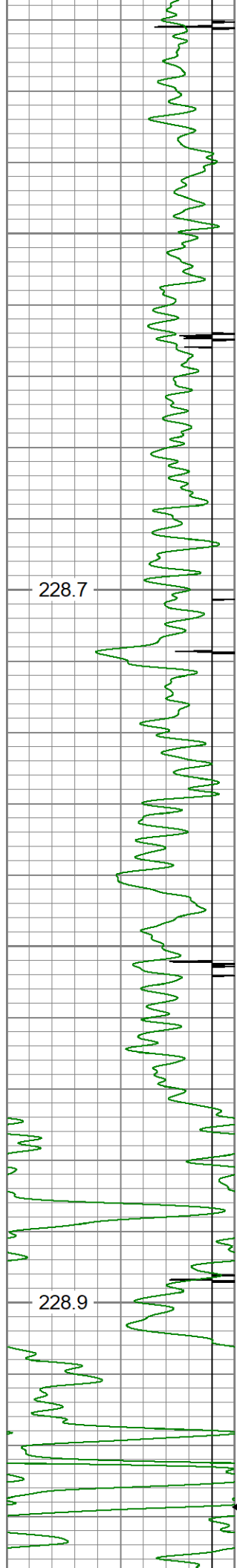
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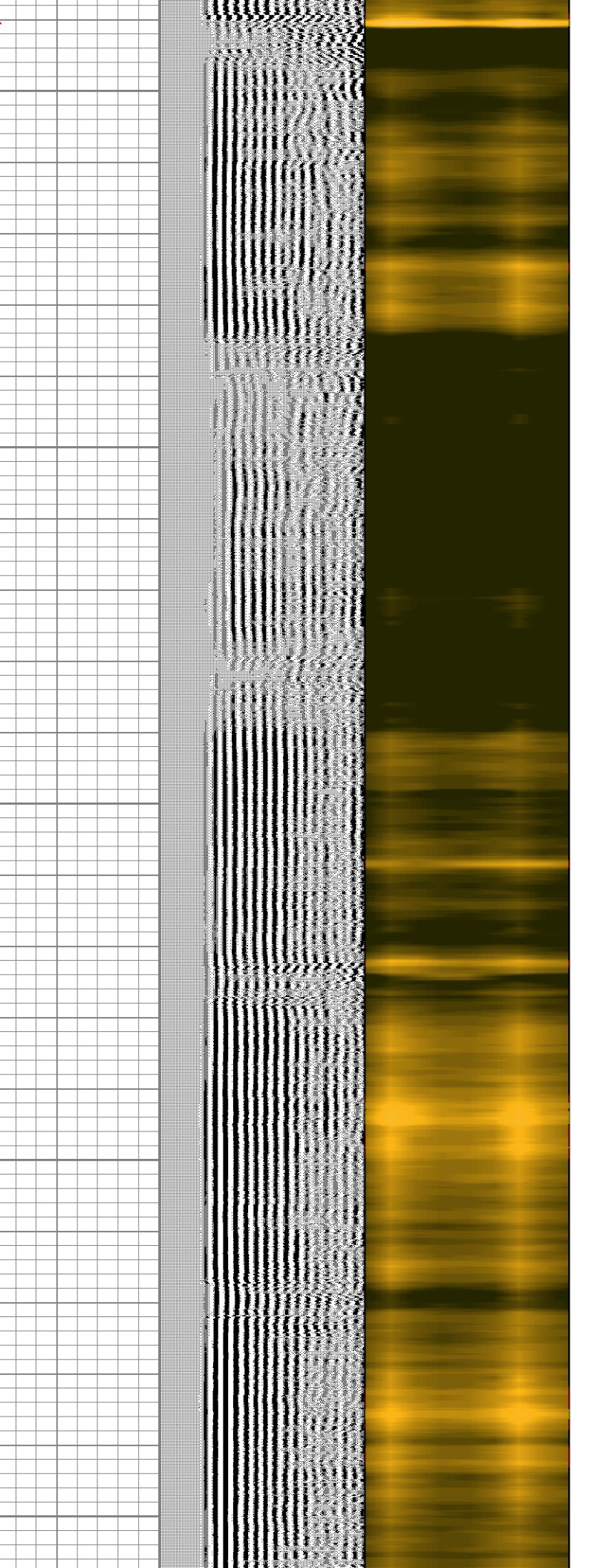
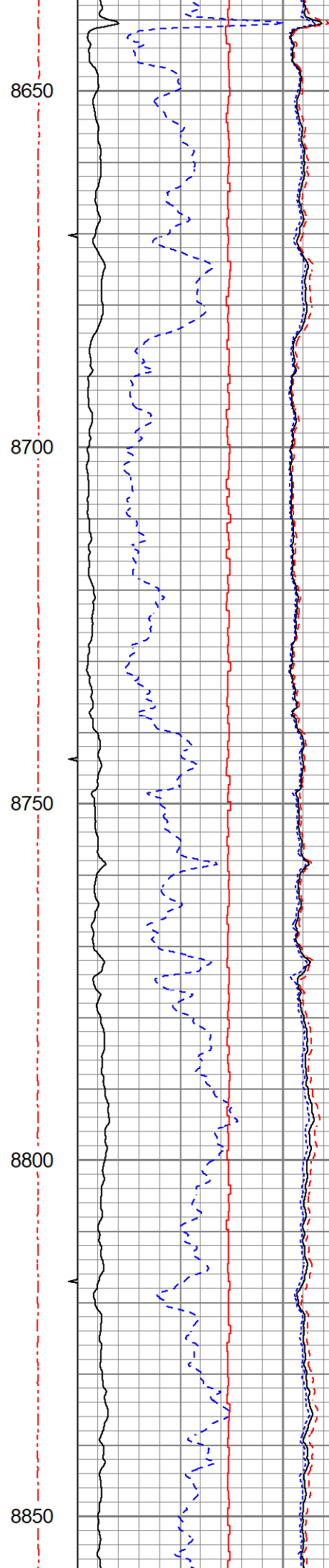
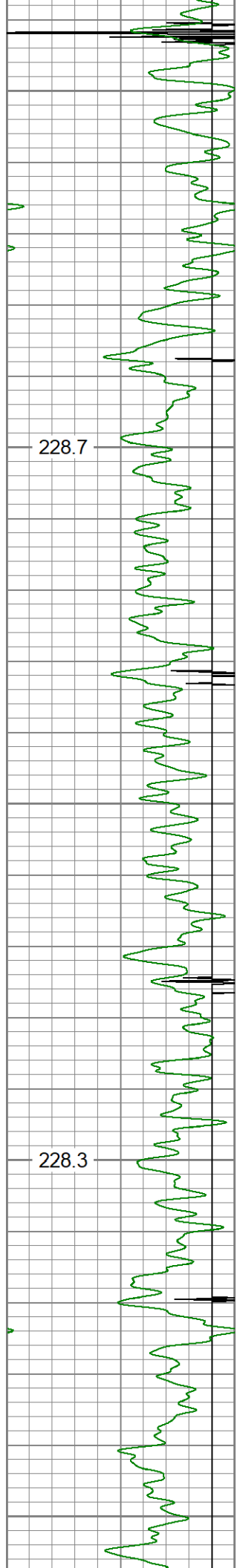
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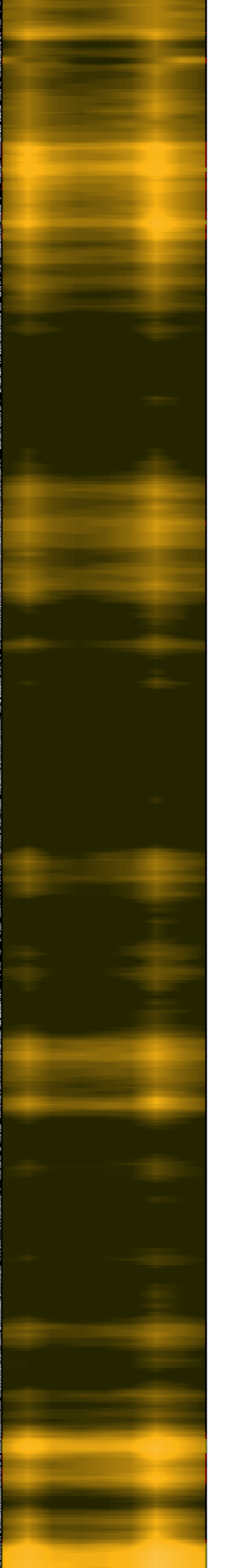
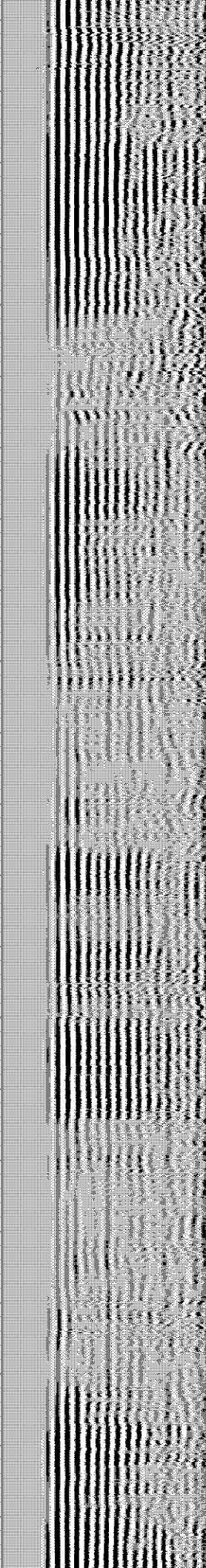
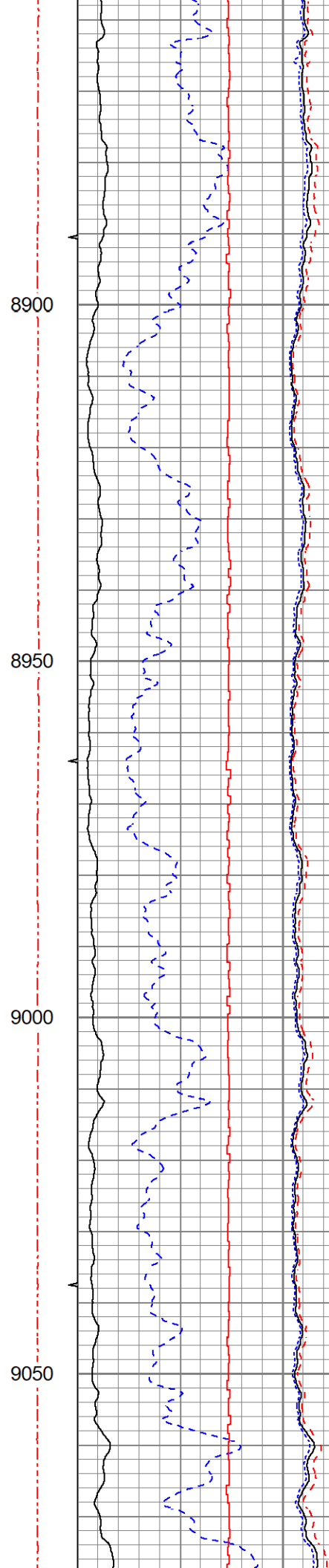
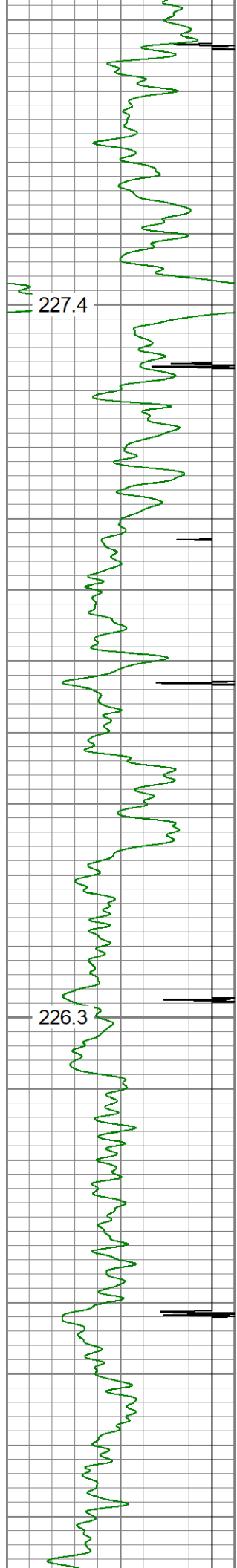
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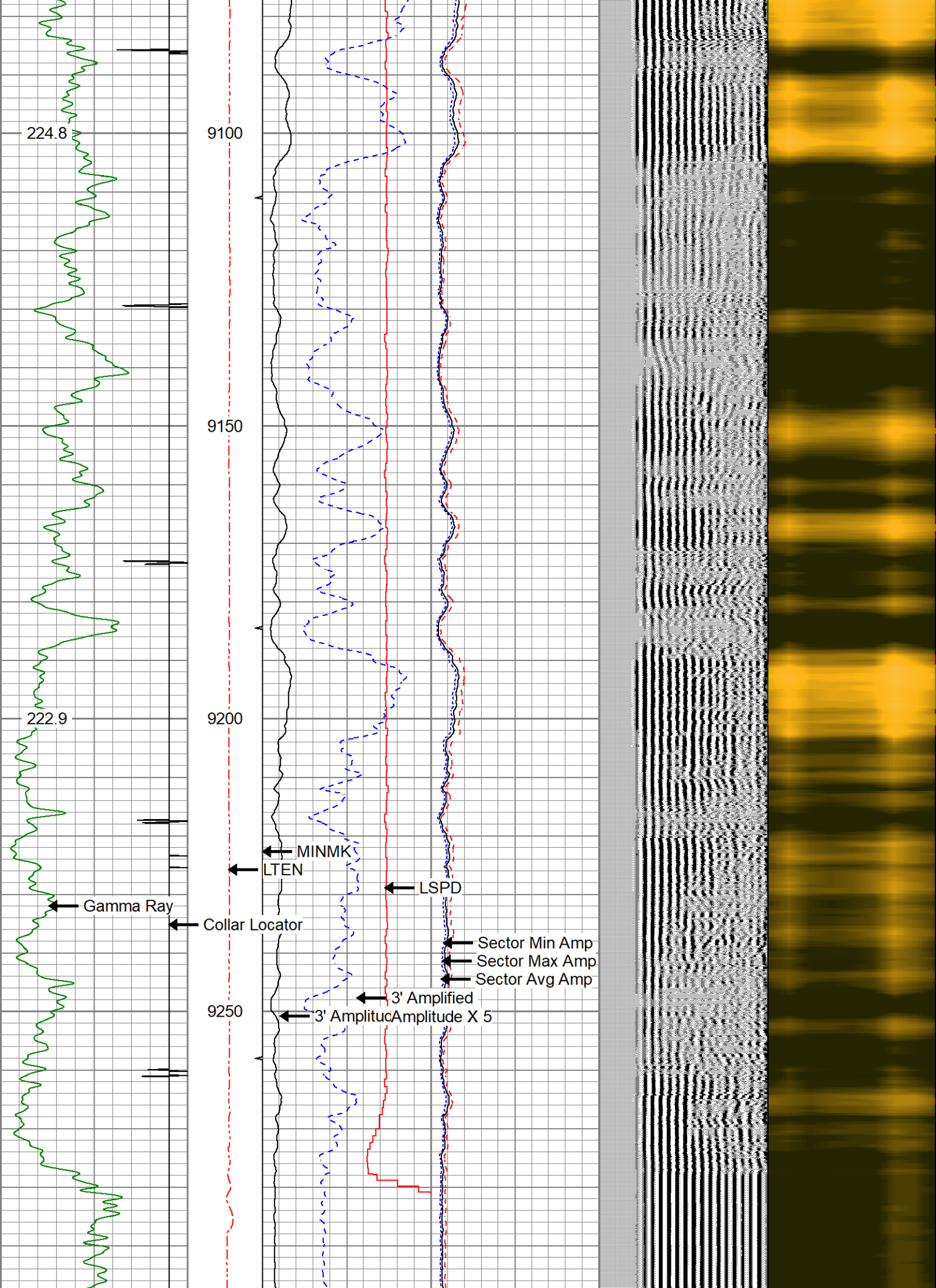


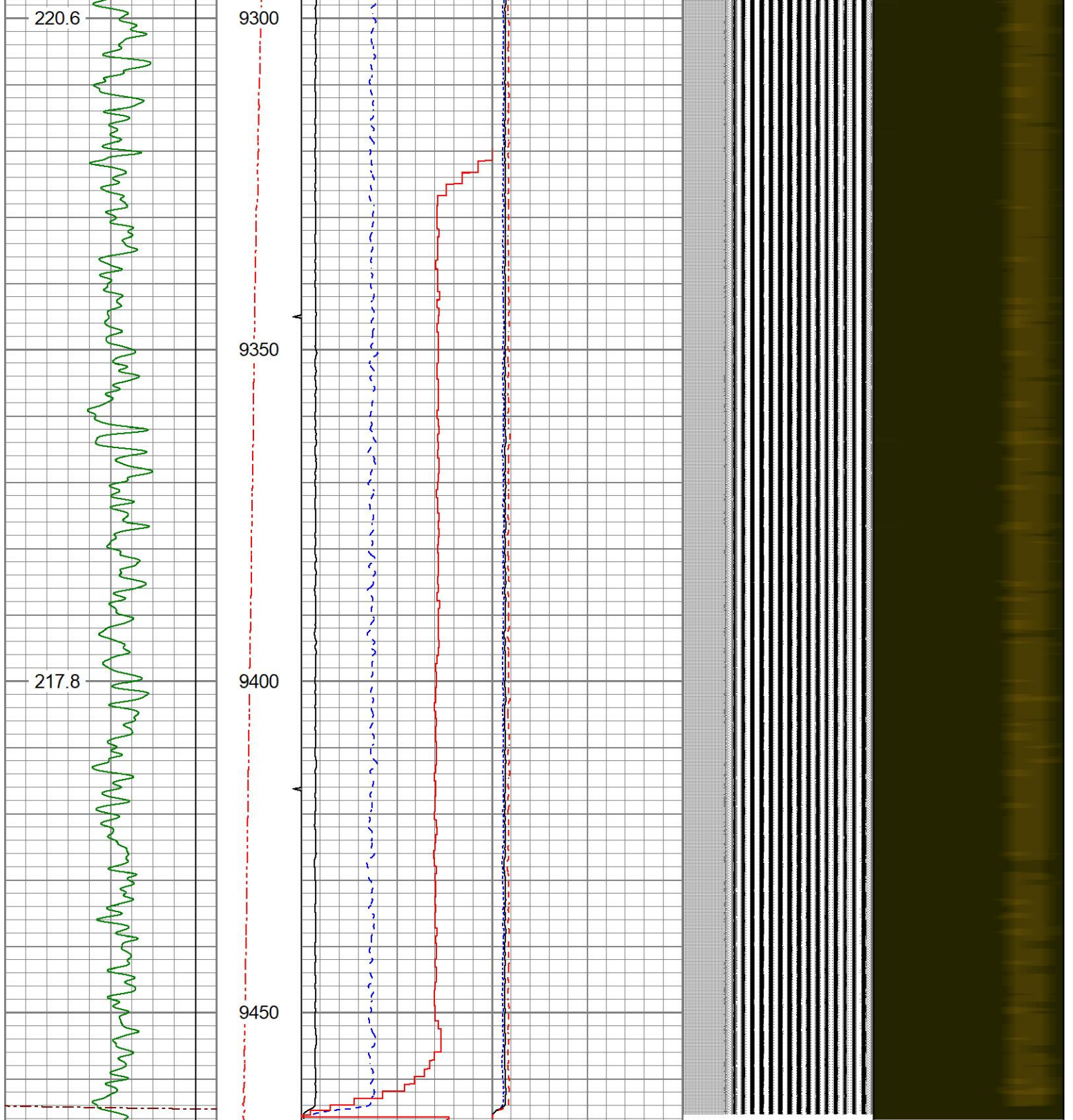












280	3FT TT (usec)	180	LTEN	3' Amplitude	0	Sector Min Amp	150	200	VDL (usec)	1200	1	Sector Map	8
-9	Collar Locator	1	(lb)	(mV)	100	Sector Avg Amp							
	Gamma Ray		0	2000		0	150						
0	(GAPI)	150	MINMK	3' Amplified									
	TEMP		10	0	0	(mV)	20	0					
	(degF)				0	LSPD (ft/min)-100							



MAIN PASS

0 PSI APPLIED AT SURFACE

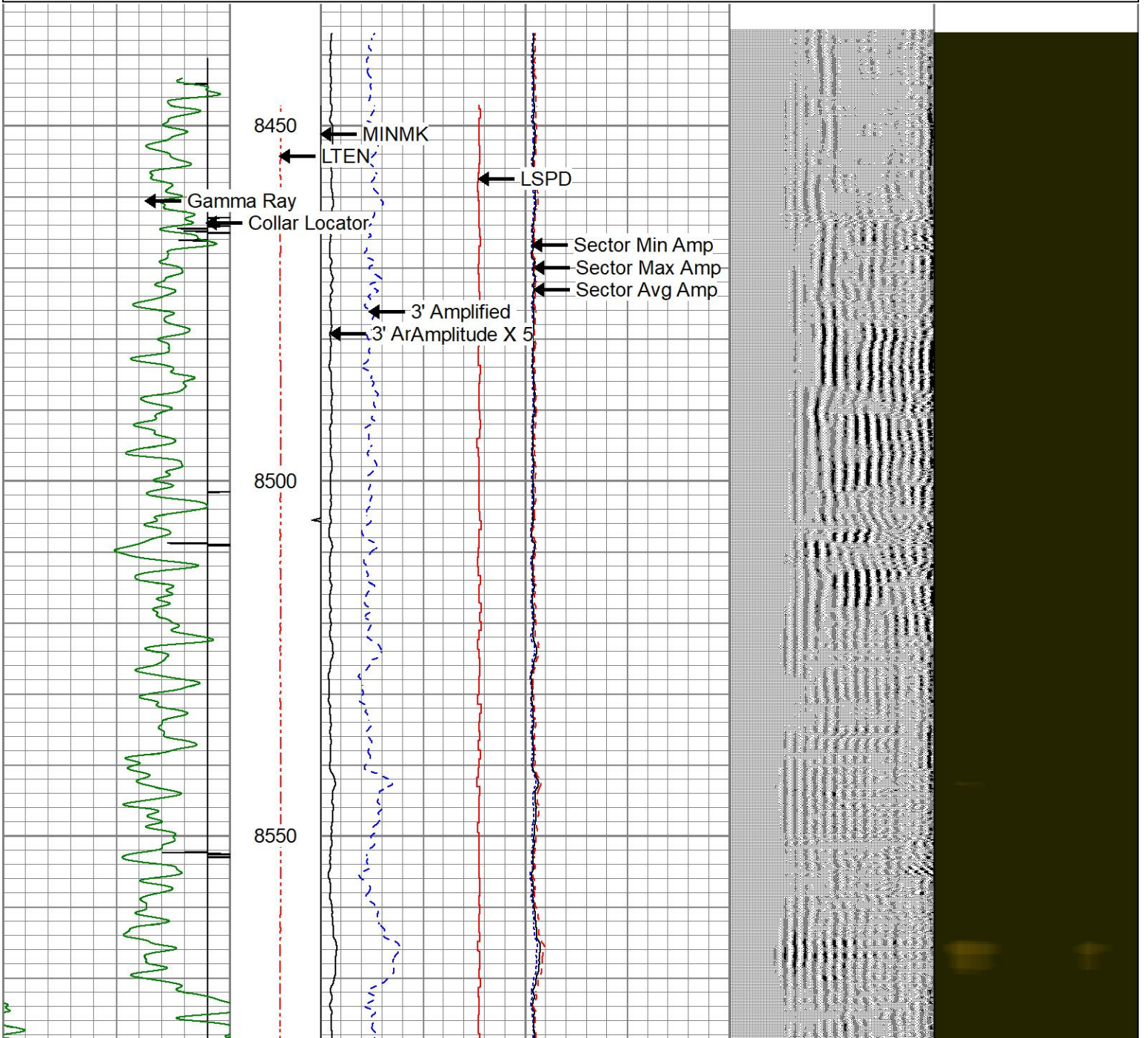


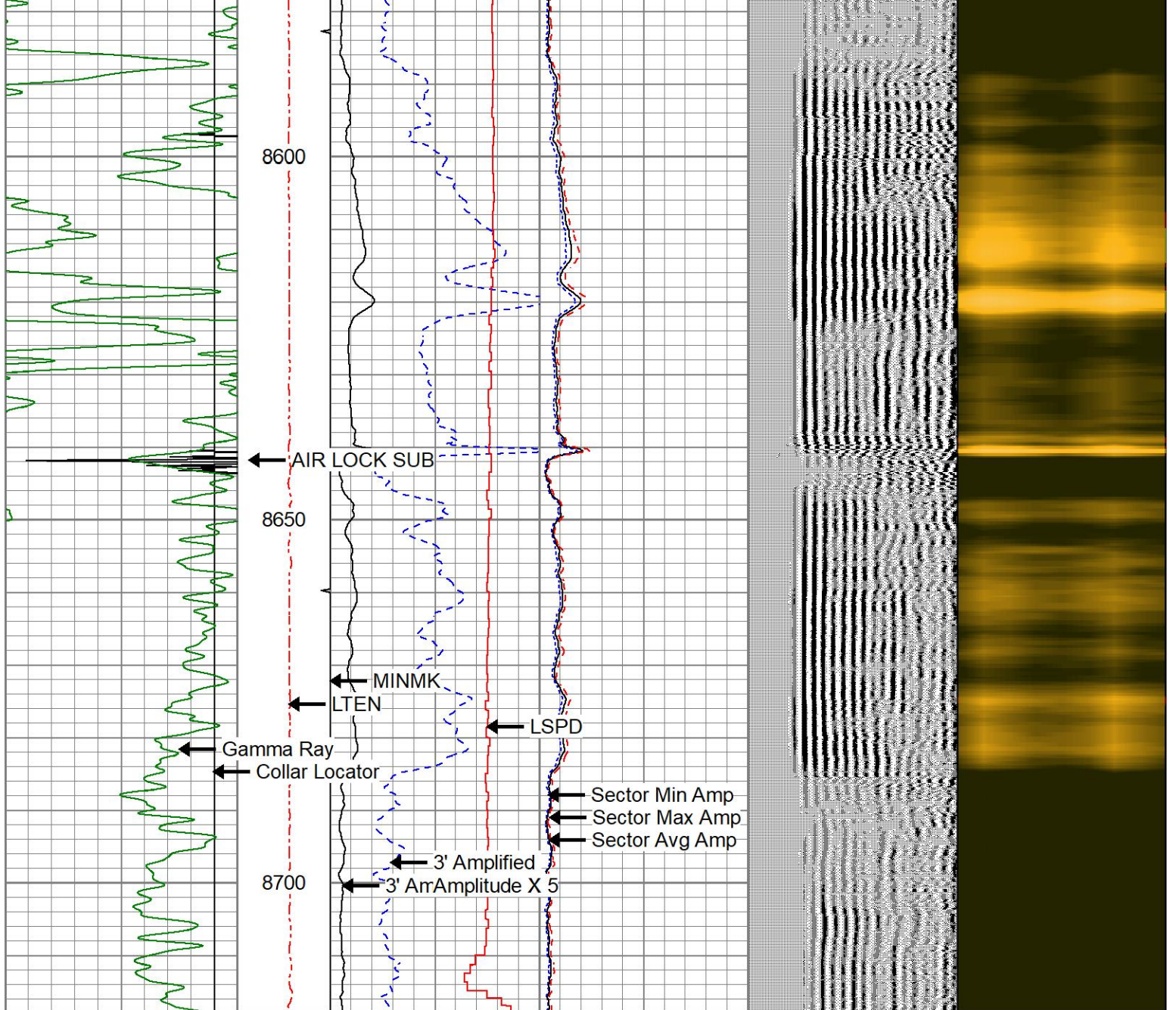
REPEAT PASS

0 PSI APPLIED AT SURFACE

Database File: verdad_fawn 2833-01h_05-123-51845_03-28-23.db
 Dataset Pathname: pass2
 Presentation Format: res_scb1 8sec_co_verdad
 Dataset Creation: Tue Mar 28 07:45:17 2023
 Charted by: Depth in Feet scaled 1:240

280	3FT TT (usec)	180	LTEN	3' Amplitude	0	Sector Min Amp	150	200	VDL (usec)	1200	1	Sector Map	8
-9	Collar Locator	1	(lb)	(mV)	100	Sector Avg Amp							
	Gamma Ray		0	2000			150						
0	(GAPI)	150	MINMK	3' Amplified Amplitude X 5		Sector Max Amp							
			10	0	(mV)	20	150						
			0	LSPD (ft/min)-100									





280	3FT TT (usec)	180	LTEN	3' Amplitude	0	Sector Min Amp	150	200	VDL (usec)	1200	1	Sector Map	8
-9	Collar Locator	1	(lb)	(mV)	100	Sector Avg Amp							
	Gamma Ray		0	2000			150						
0	(GAPI)	150	MINMK	3' Amplified		Sector Max Amp							
			10	0	(mV)	20	150						
			0	LSPD (ft/min)-100									



REPEAT PASS

0 PSI APPLIED AT SURFACE

Calibration Report

Database File verdad_fawn 2833-01h_05-123-51845_03-28-23.db
 Dataset Pathname pass3
 Dataset Creation Tue Mar 28 07:52:49 2023

Gamma Ray Calibration Report

Serial Number 071120

Serial Number: 071129
 Tool Model: GR275B
 Performed: Tue Mar 28 08:37:24 2023

Calibrator Value: 250.0 GAPI
 Background Reading: 34.9 cps
 Calibrator Reading: 302.3 cps
 Sensitivity: 0.8500 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 070150
 Tool Model: Probe
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 3.267 ft

Master Calibration, performed Tue Mar 28 08:37:30 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	1.012	1.000	71.921	69.935	1.128
CAL	-0.002	1.002				
5'	-0.002	0.945	1.000	71.921	74.897	1.145
SUM						
S1	-0.001	0.993	0.000	100.000	100.597	0.142
S2	-0.002	1.008	0.000	100.000	99.015	0.198
S3	-0.002	1.002	0.000	100.000	99.653	0.151
S4	-0.002	1.000	0.000	100.000	99.829	0.180
S5	-0.002	1.015	0.000	100.000	98.336	0.186
S6	-0.002	0.999	0.000	100.000	99.871	0.202
S7	-0.002	1.010	0.000	100.000	98.891	0.170
S8	-0.001	1.008	0.000	100.000	99.029	0.144

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.002	1.002	1.000	0.000

Air Zero Calibration, performed Wed Jul 20 11:36:42 2022:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Gain	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



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