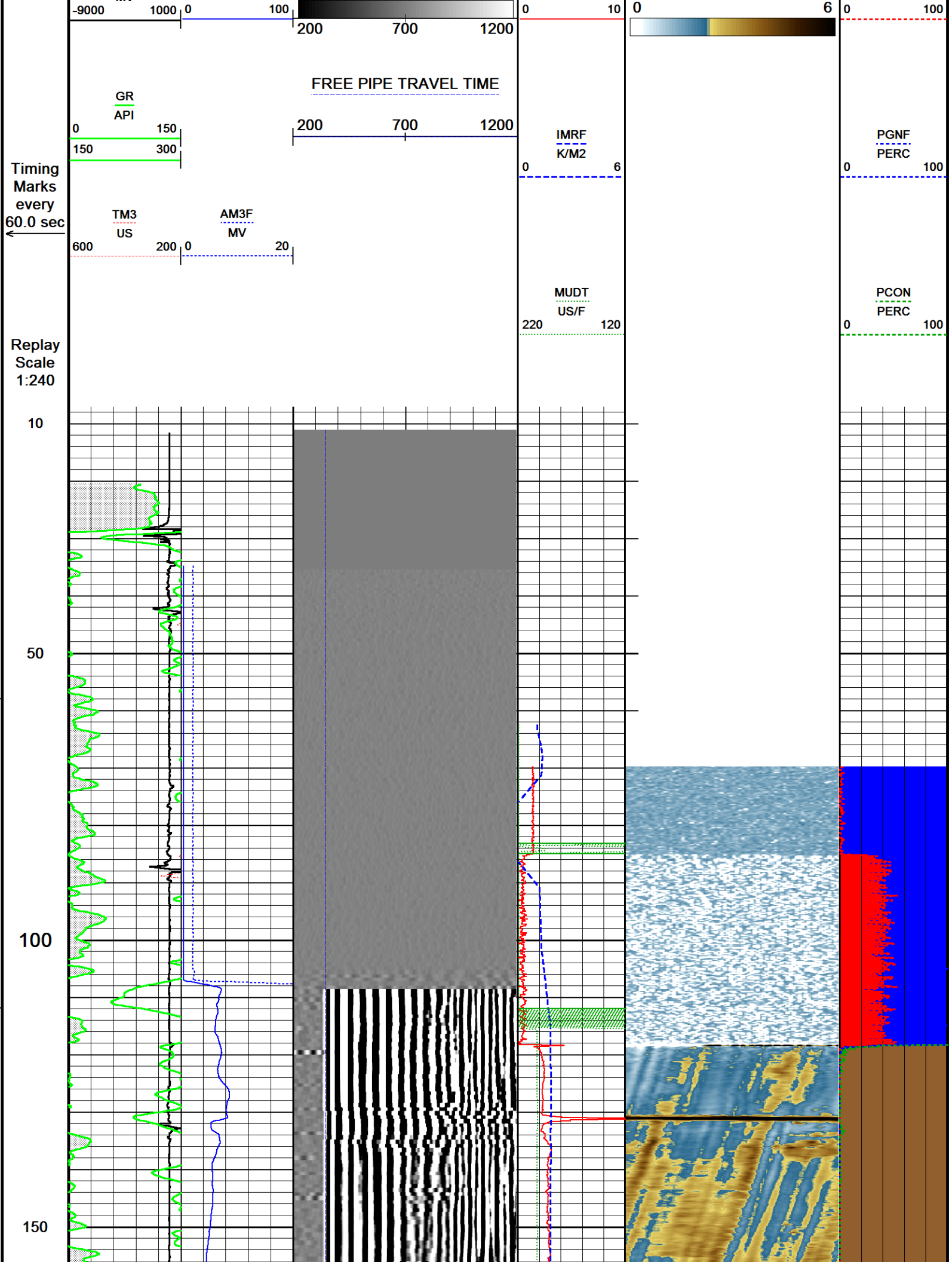
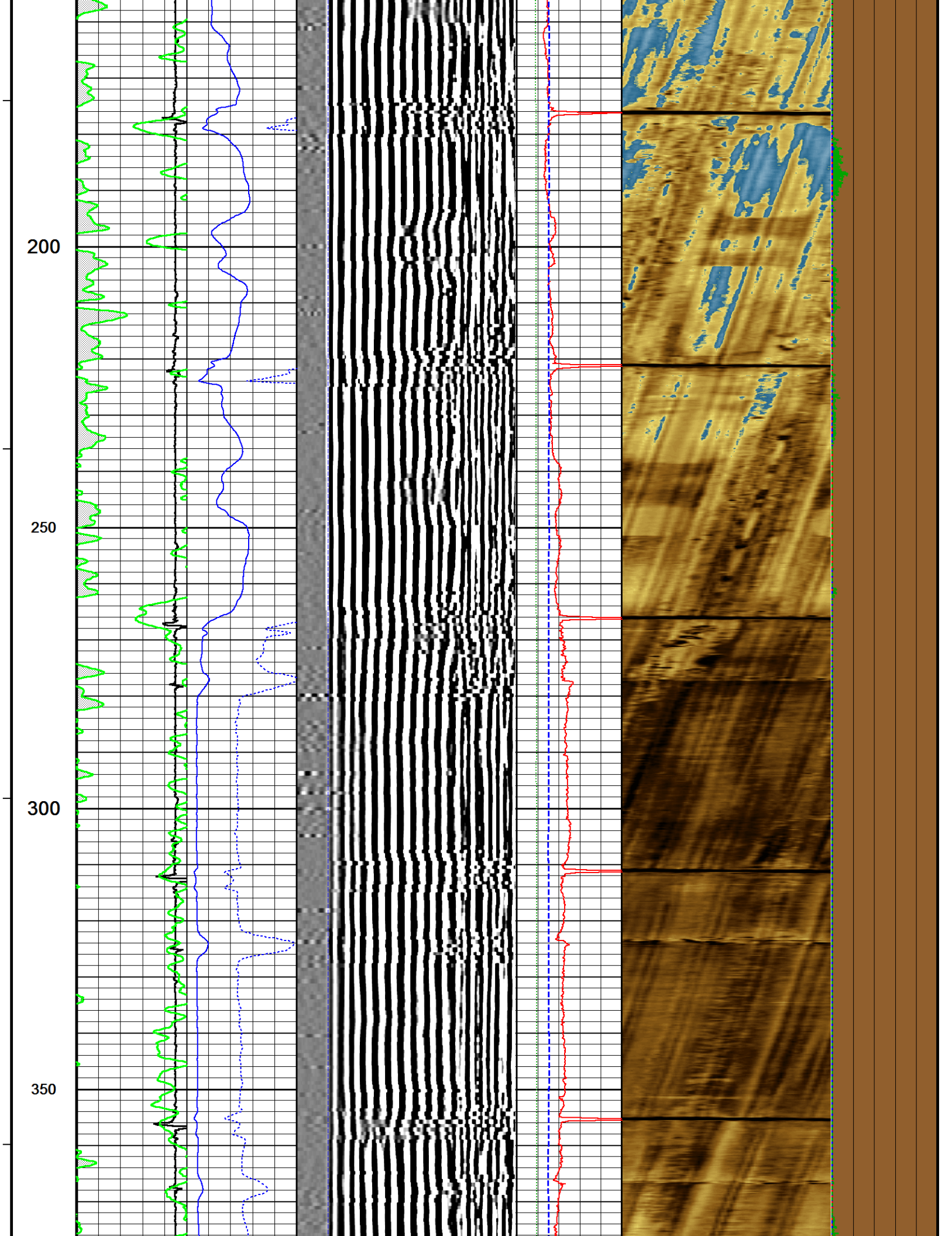
				<div>SECUREVIEW</div> <div>ULTRAVIEW/BONDVIEW</div> <div>CEMENT ANALYSIS</div>							
COMPANY				EXTRACTION OIL & GAS							
WELL				LEONARD 9C							
FIELD				WATTENBERG							
PROVINCE/COUNTY				WELD							
COUNTRY/STATE				USA / COLORADO							
LOCATION											
SEC 21		TWP 2N		RGE 67W		Other Services					
Latitude		Longitude		Permanent Datum GROUND LEVEL, Elevation 5004 feet Log Measured From KB, 28 feet above Permanent Datum Drilling Measured From KB							
API Number		051234504400									
Date				06-OCT-2017		PERFORATION RECORD					
Run Number		ONE		Shot		Number		Depth From		Depth To	
Service Order		TBD		Density		of Shots		feet		feet	
Type Log		URS/CBT									
Depth Driller		12330.00		feet							
Depth Logger		6900.00		feet							
Top Log Interval		0.00		feet							
Bottom Log Interval		6900.00		feet							
Hole Fluid Type		WATER									
Hole Fluid Level		0.00		feet							
Restriction ID		4.653		inches		Gun Type					
Max Recorded Temp						Gun Size					
Well Head Pressure		0.00		psi		CASING / TUBING RECORD					
Well Head Equipment				Size		Weight		Depth From		Depth To	
Time Well Ready		ROA		inches		pounds/ft		feet		feet	
Time Logger Bottom		SEE LOG		5.500		20.00		0.00		12330.00	
Unit		14115									
Equipment Name		WSS-E									
Base		CASPER									
Recorded By		P. MAZUR									
Witnessed By											

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	P 110	LTC	5.500	0.00	12330.00	20.00

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

MAIN PASS 1:240					
Depth Based Data - Maximum Sampling Increment 2.5cm				Plotted on 06-OCT-2017 20:42	
Filename: C:\Logs\Extraction\LEONARD 9C\LEONARD 9C MAIN URS.dta				Recorded on 06-OCT-2017 12:25	
System Versions: Logged with 16.05.3841 Plotted with 16.05.3841					
Depth in Feet	XY Signature 5FT microseconds			Impd Map MRAYLS	PGAS PERC
	CCL MV	AM3F MV	-10000 10000		





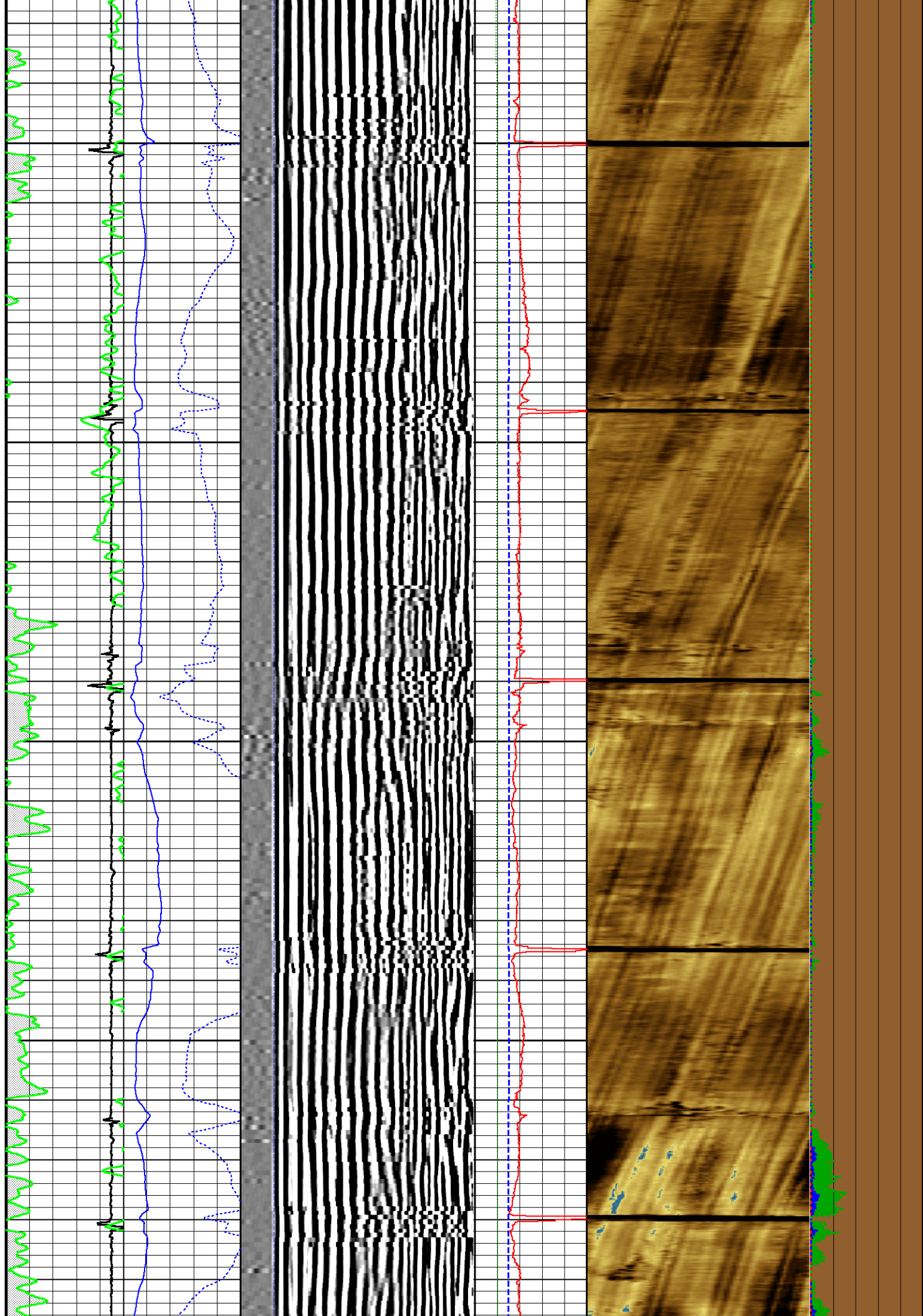


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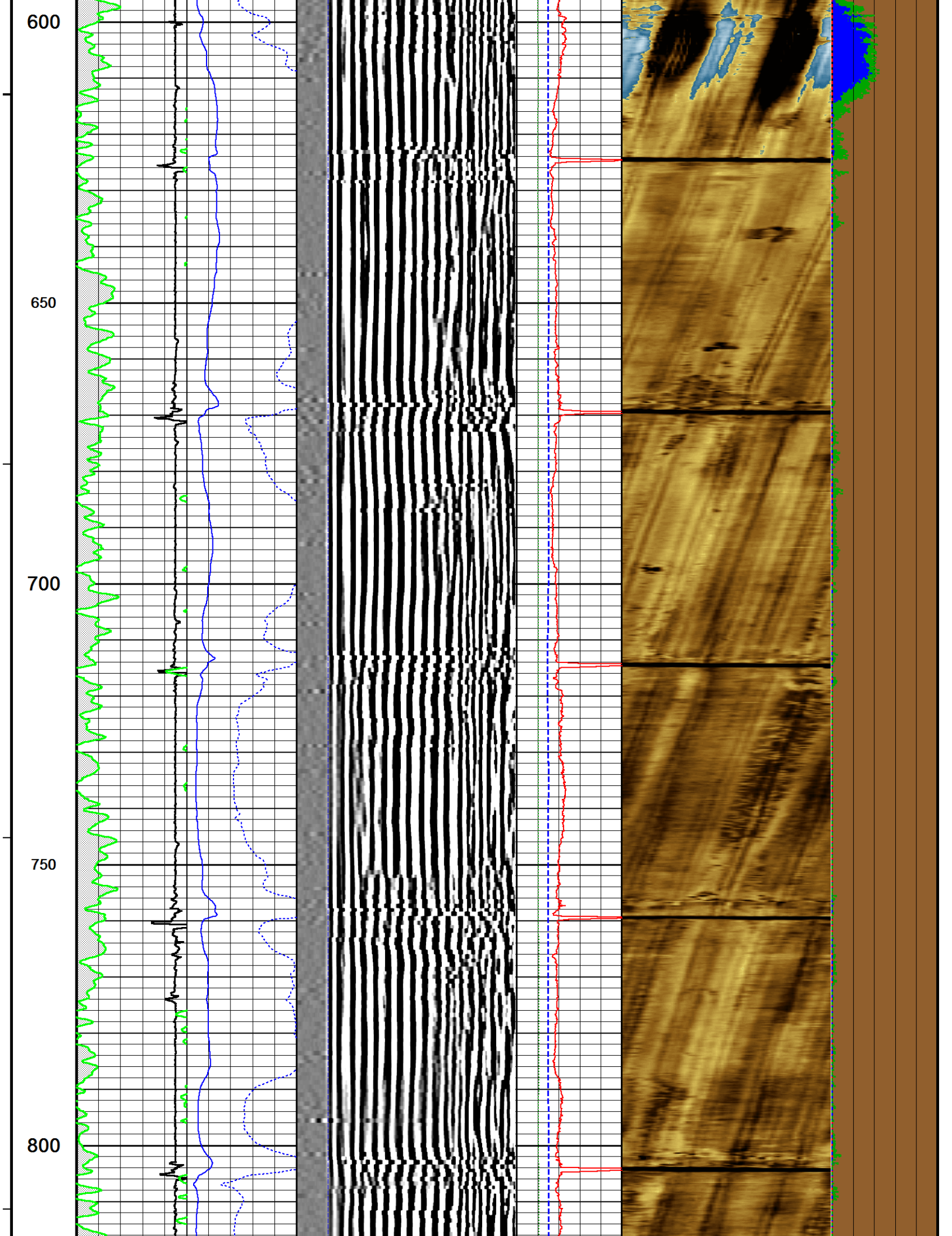
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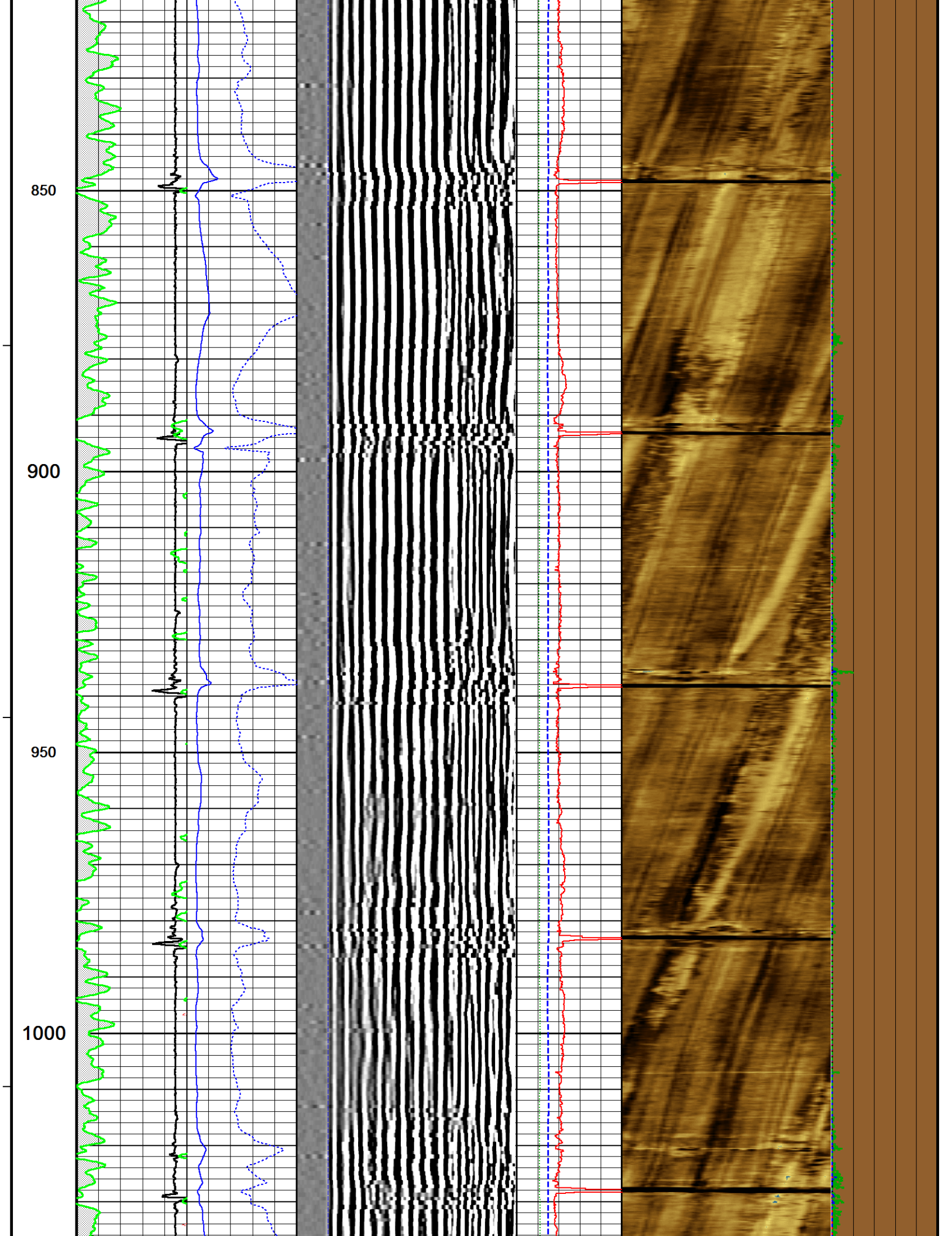
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550

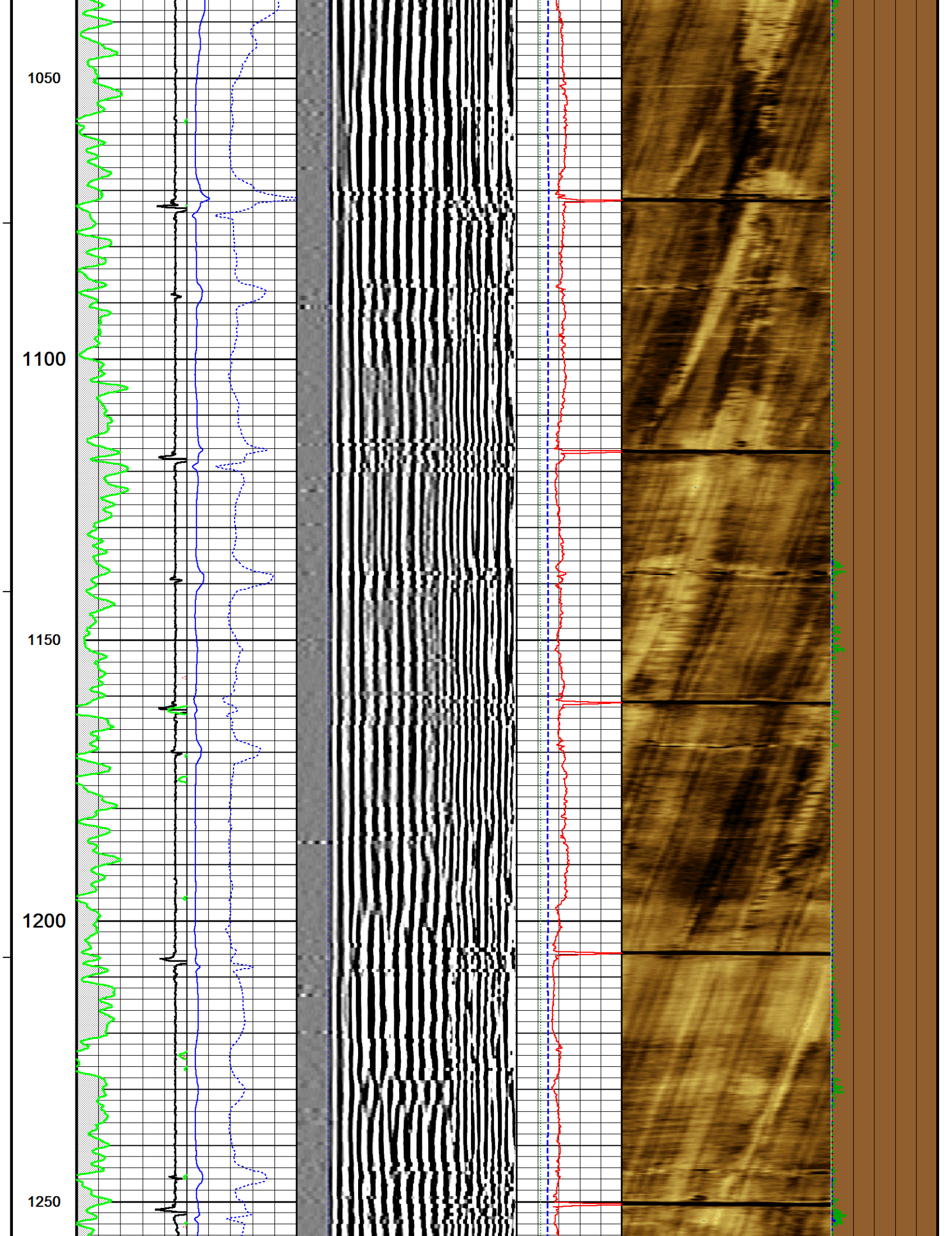




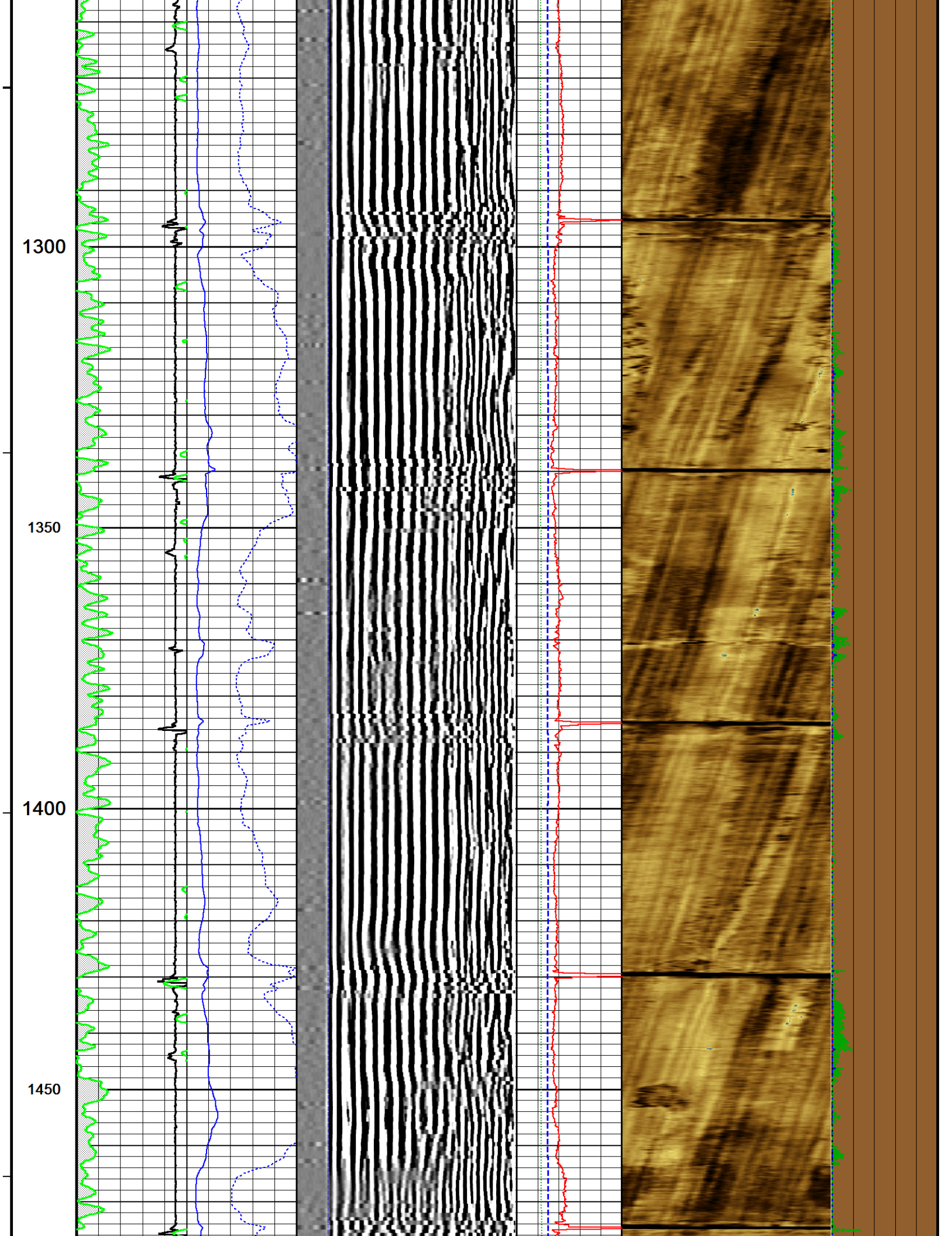


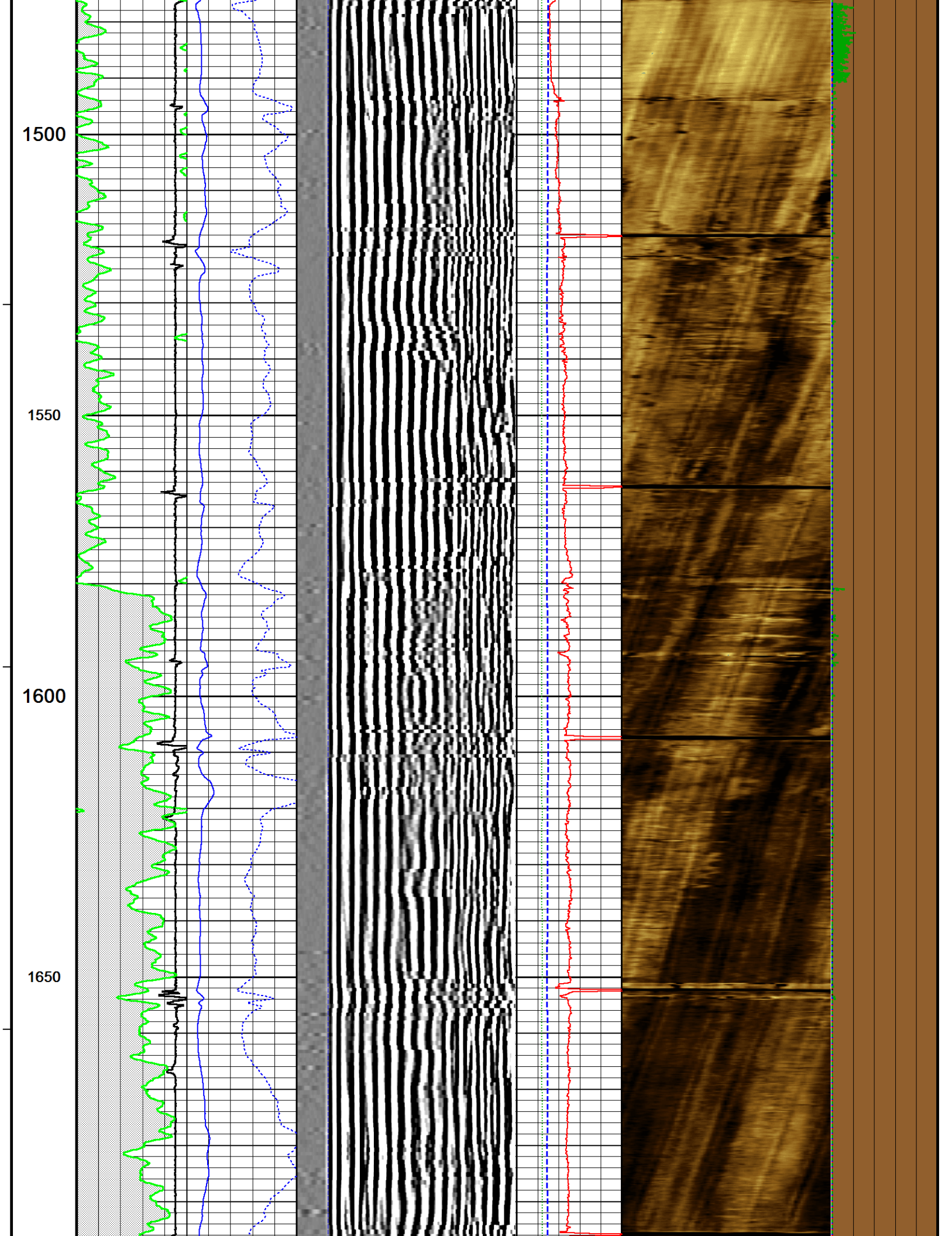




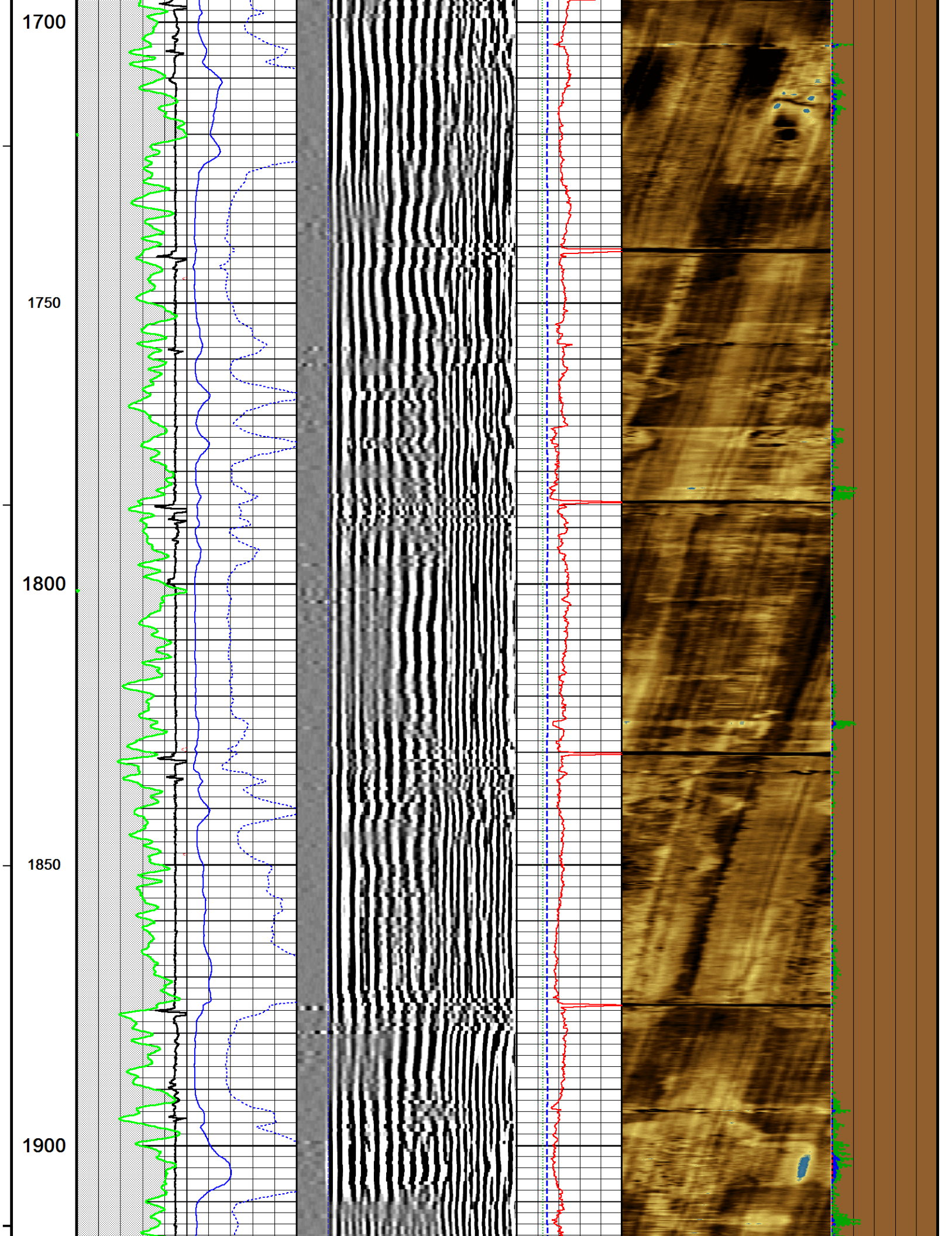












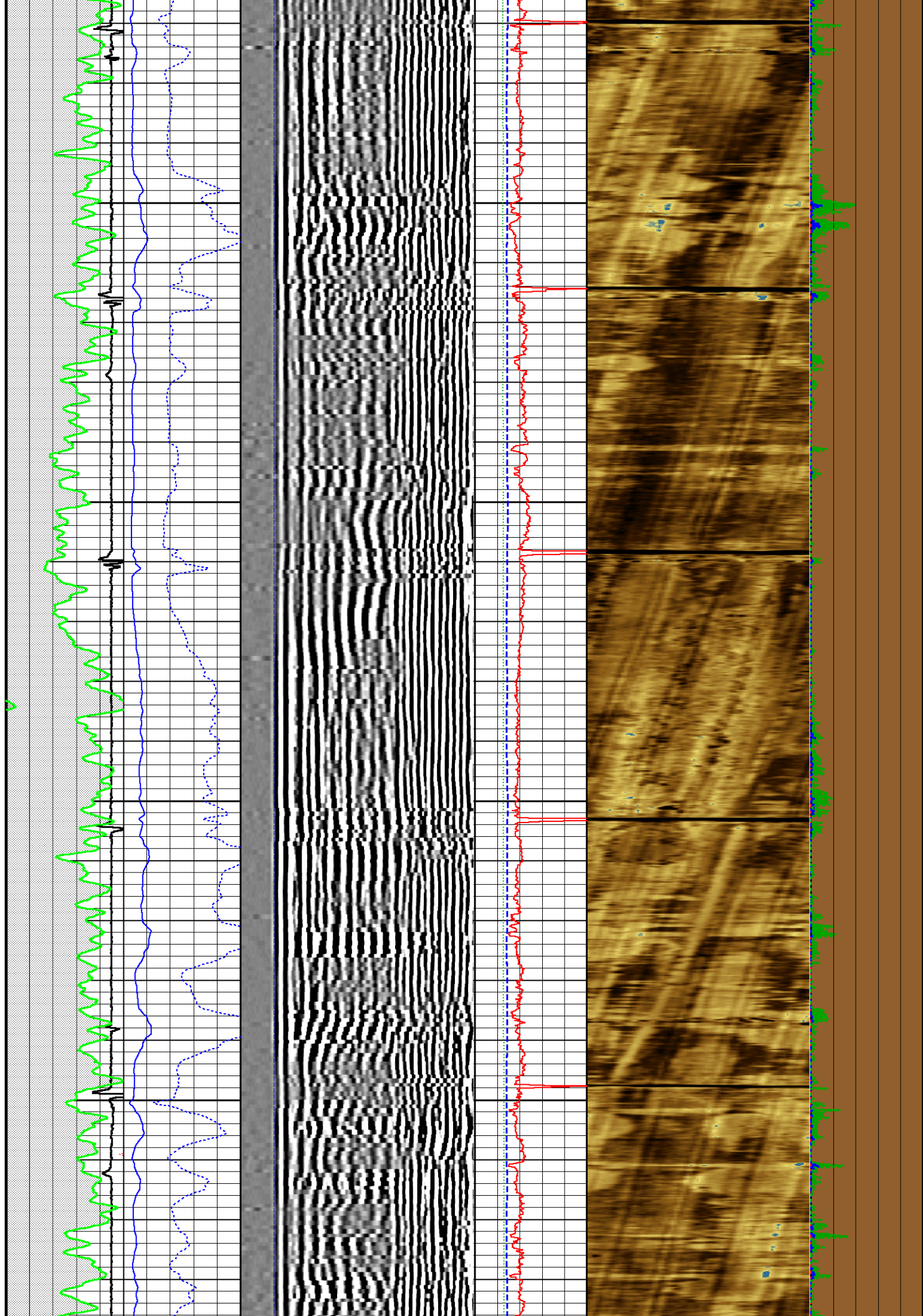


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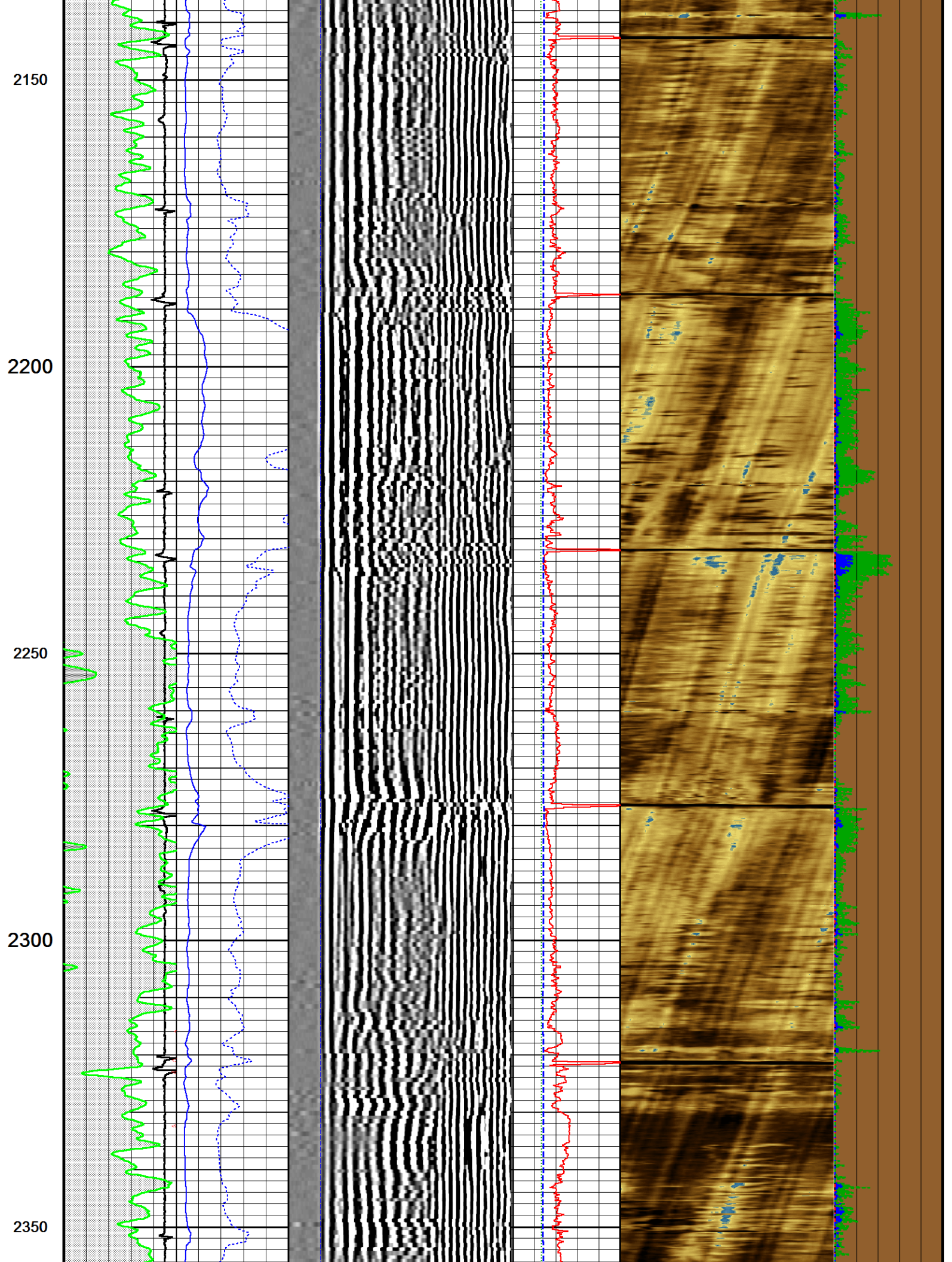
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2050

2100







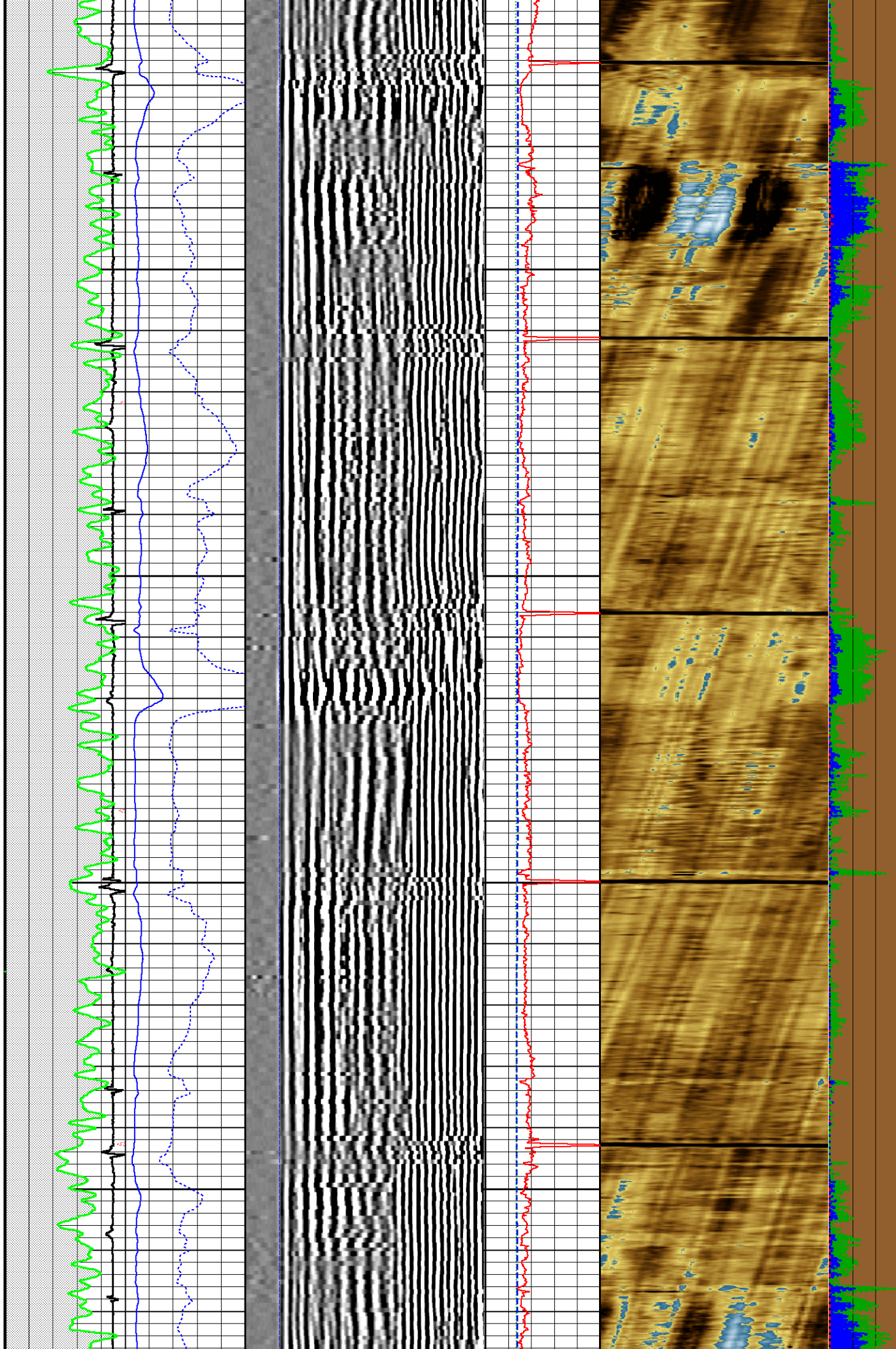


2400

2450

2500

2550



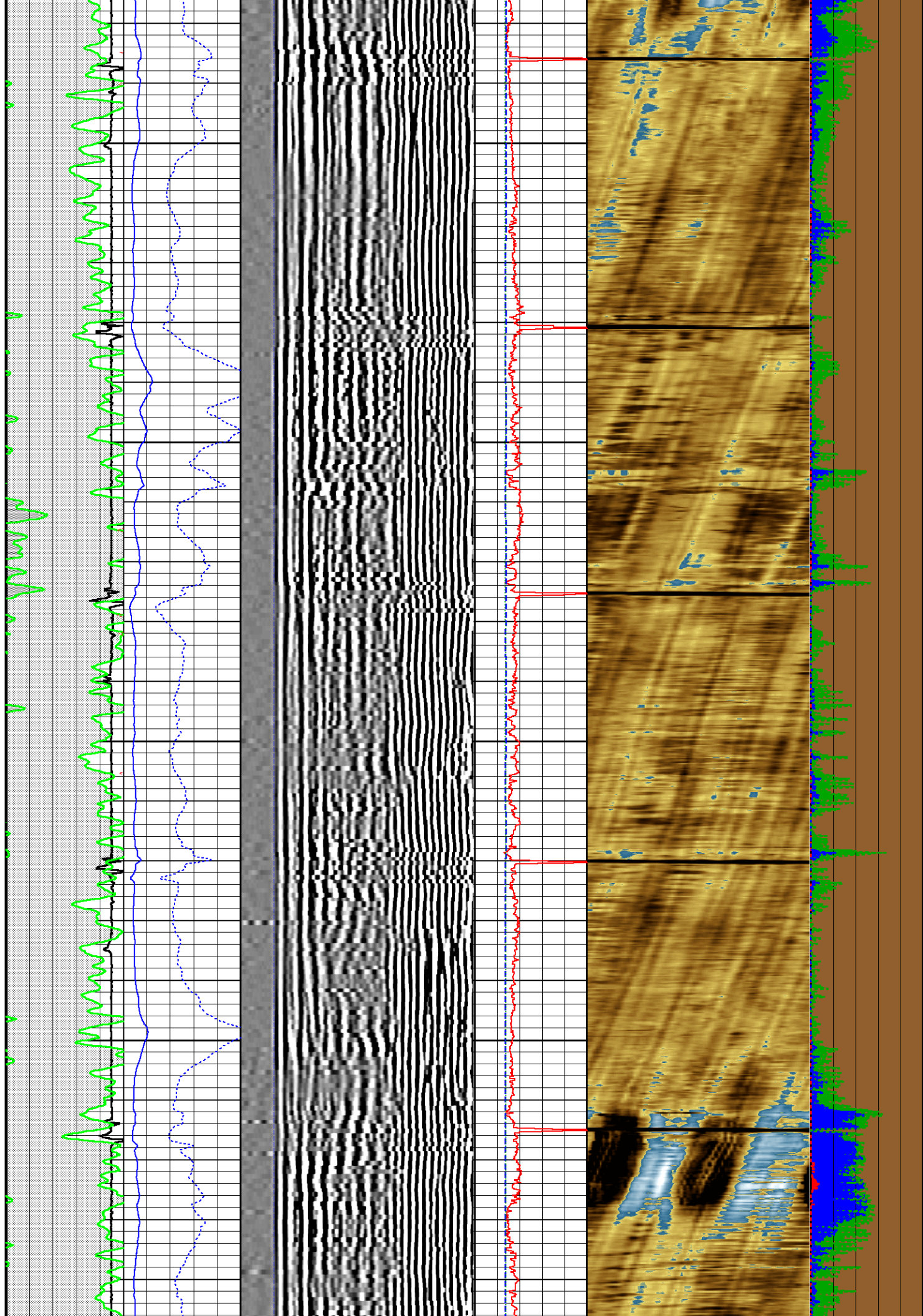


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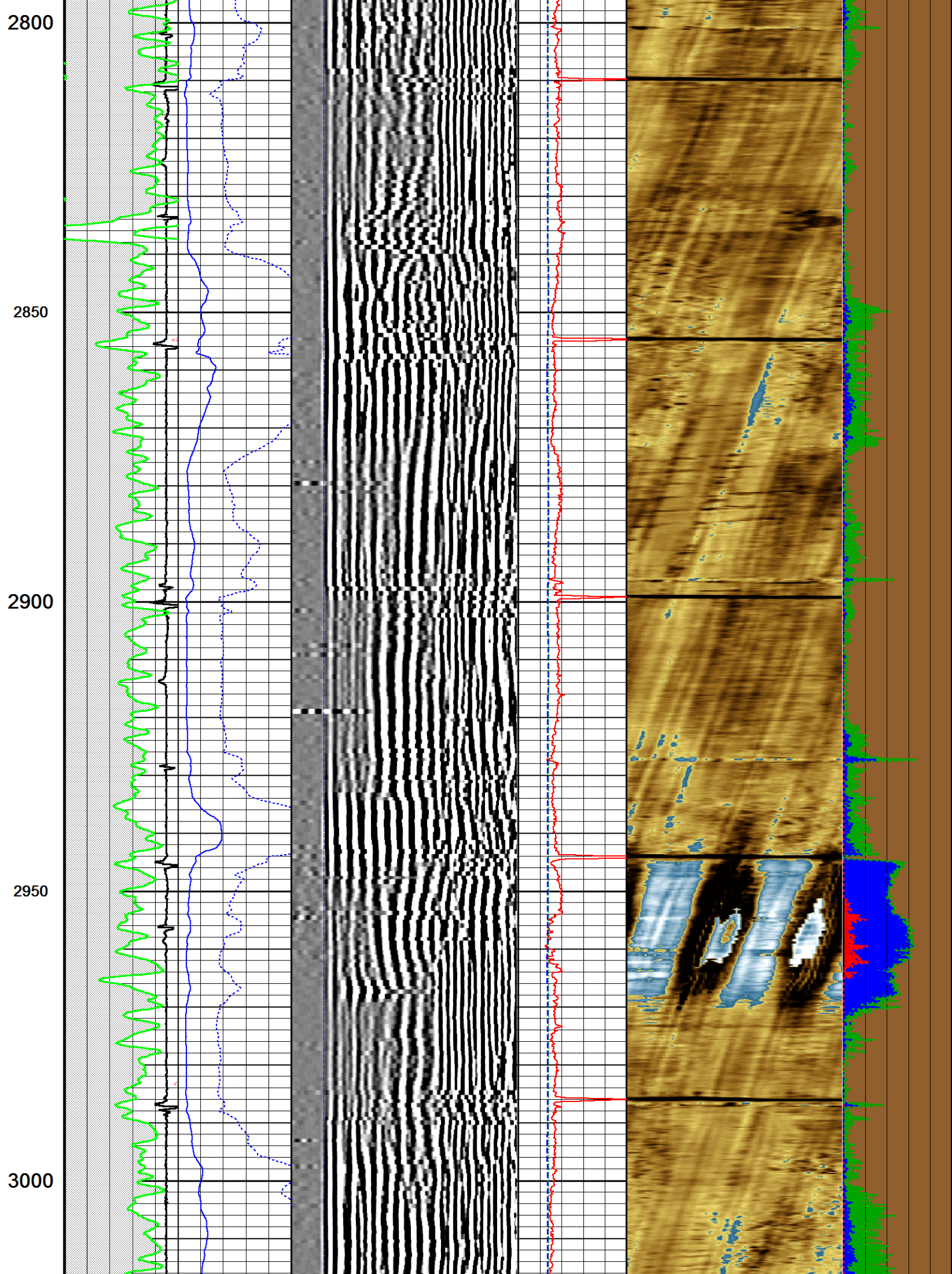
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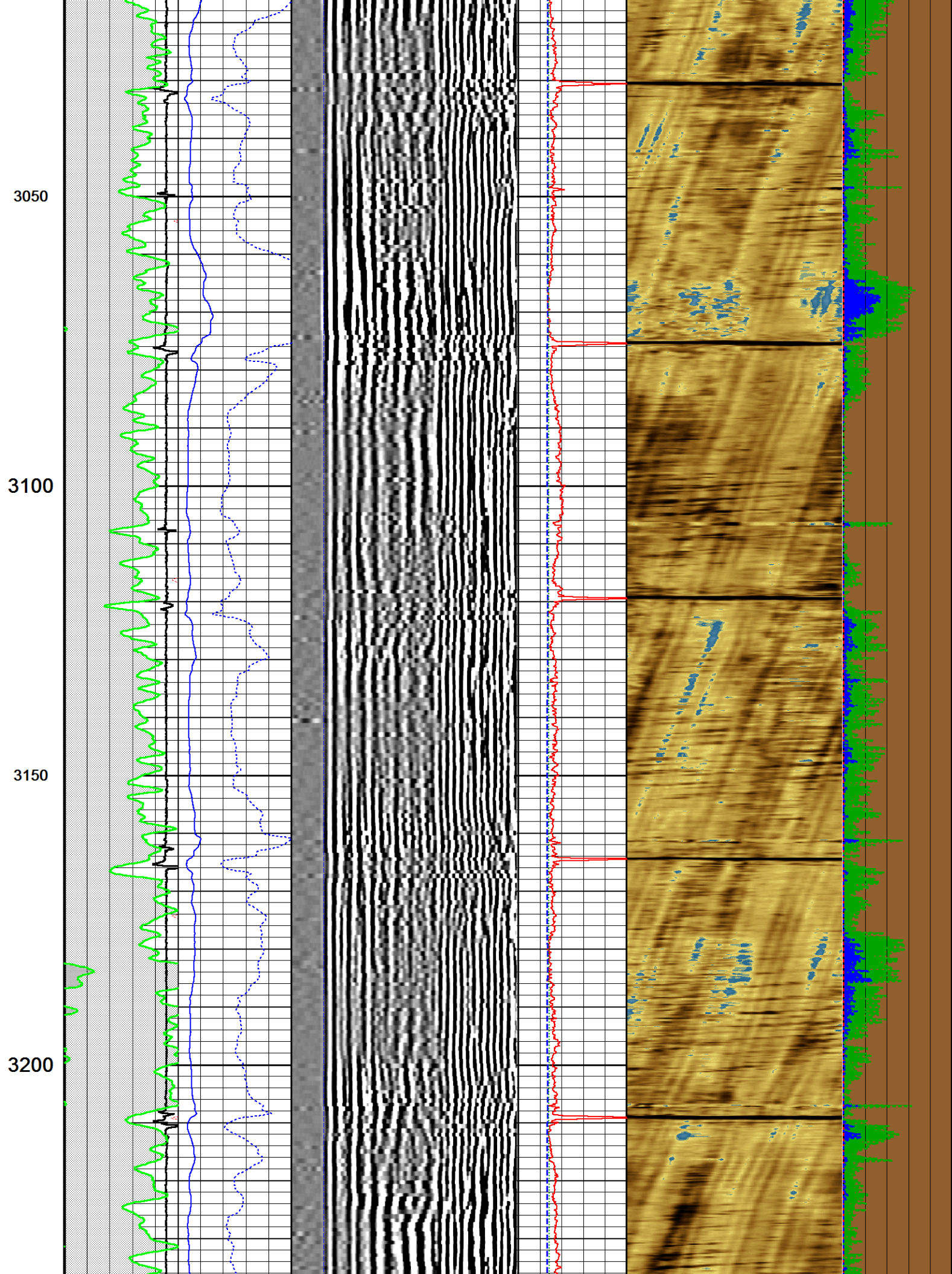
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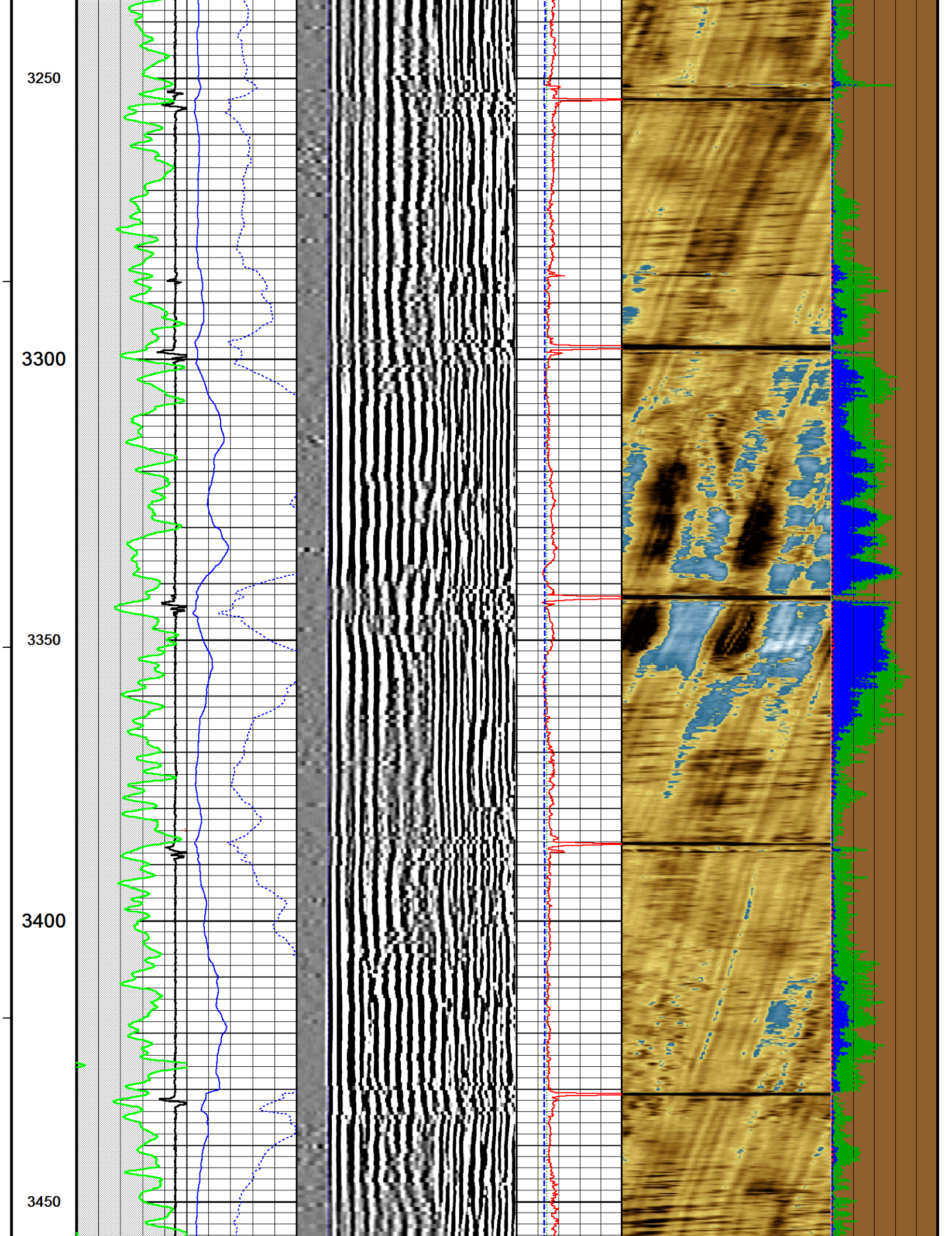












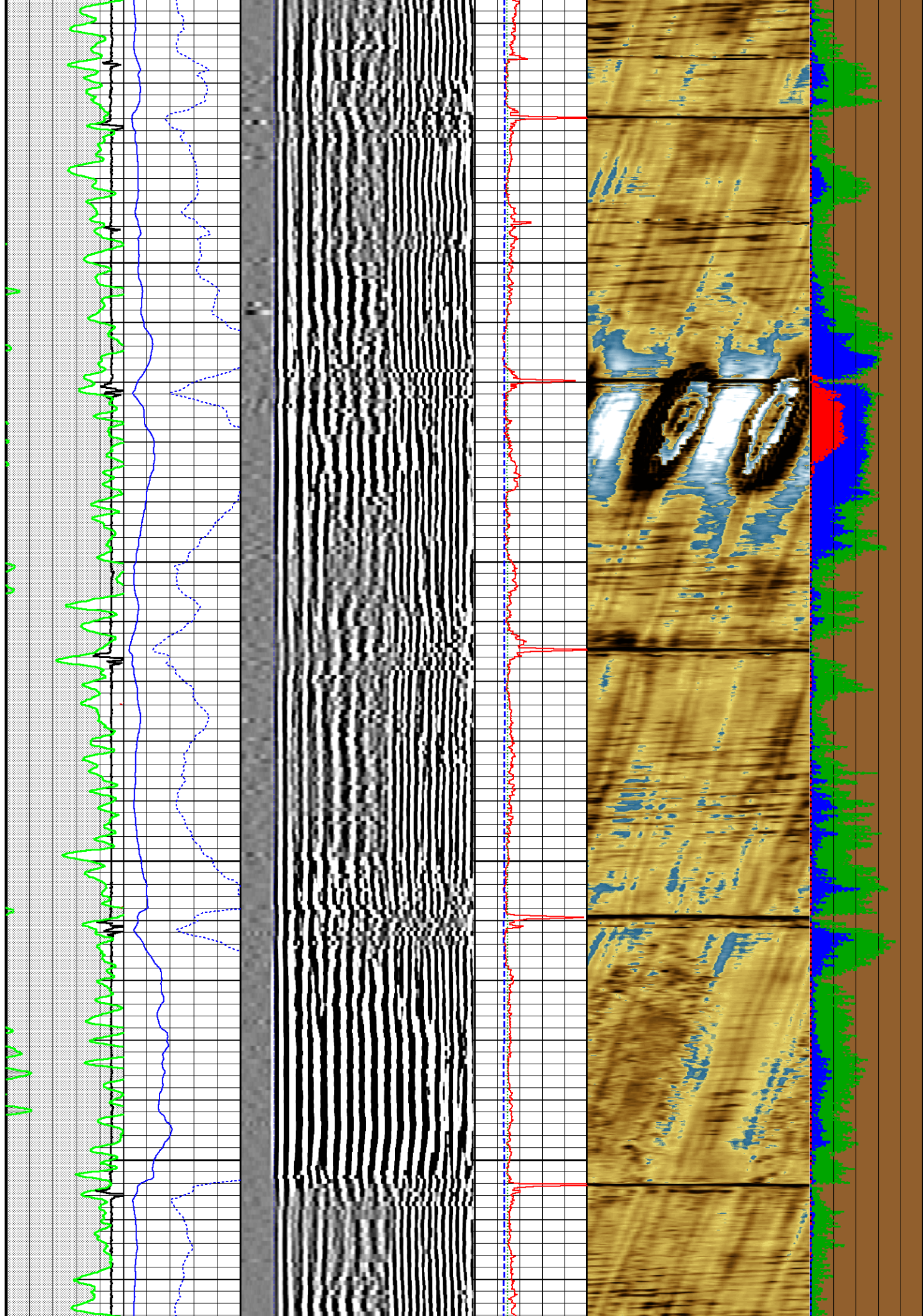


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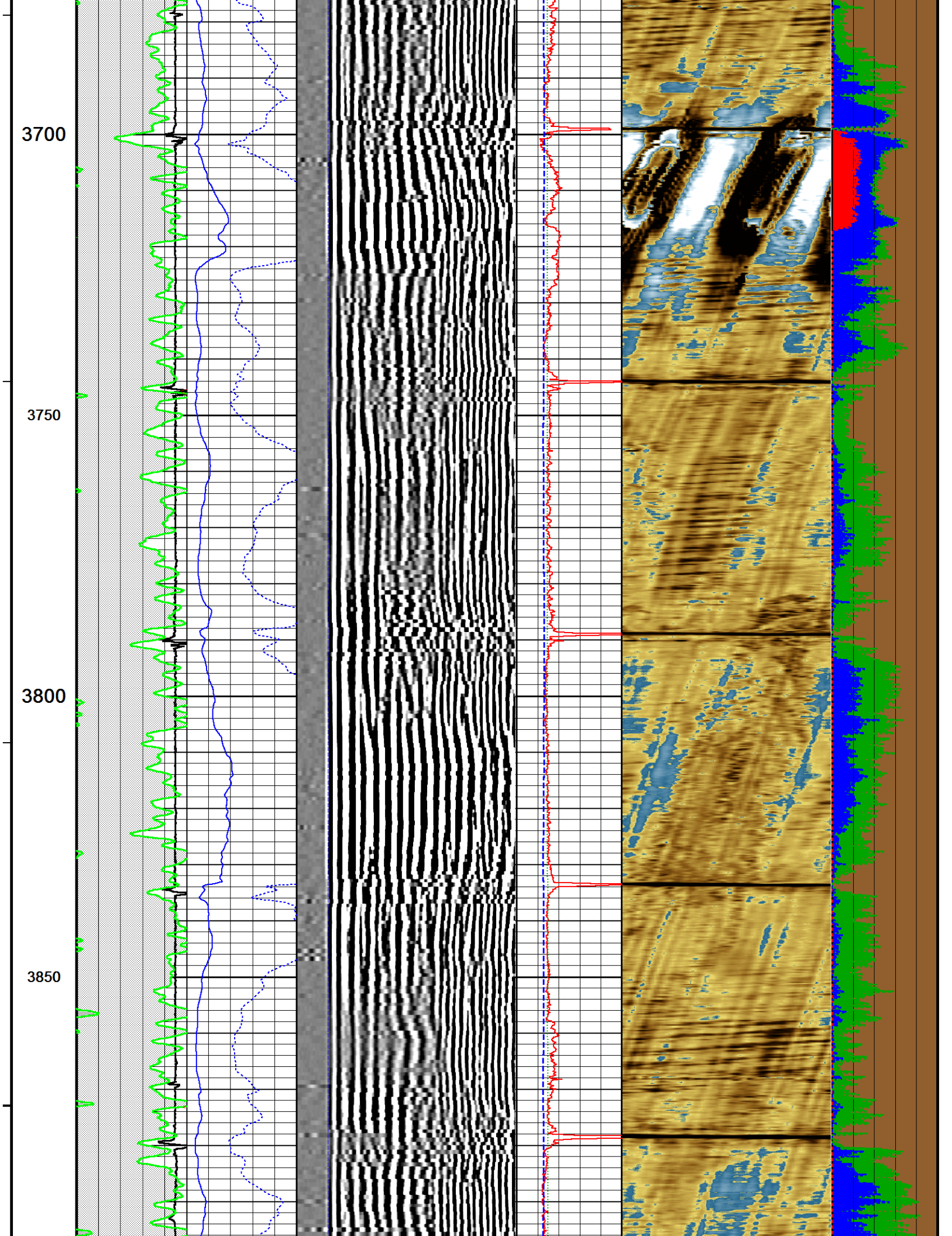
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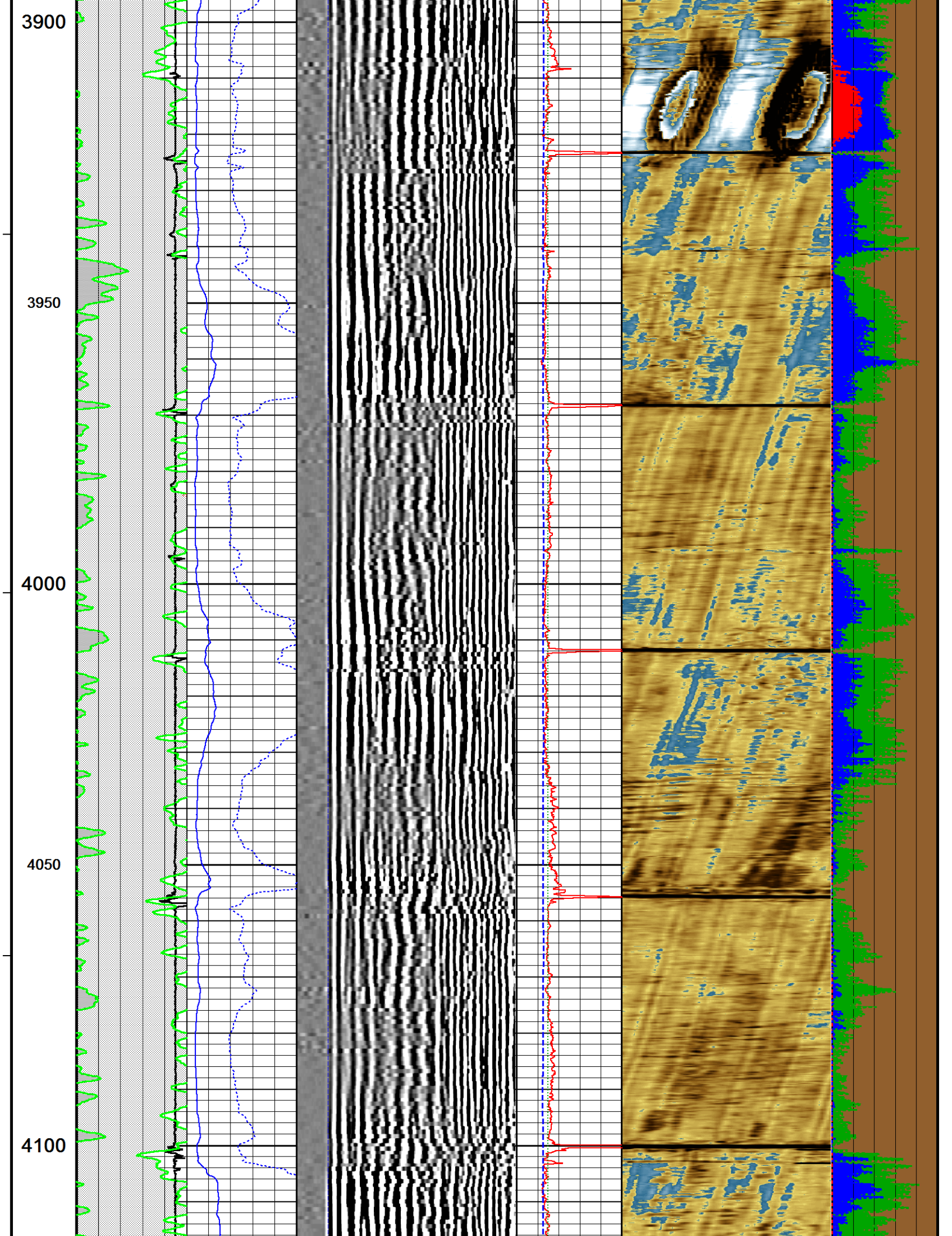
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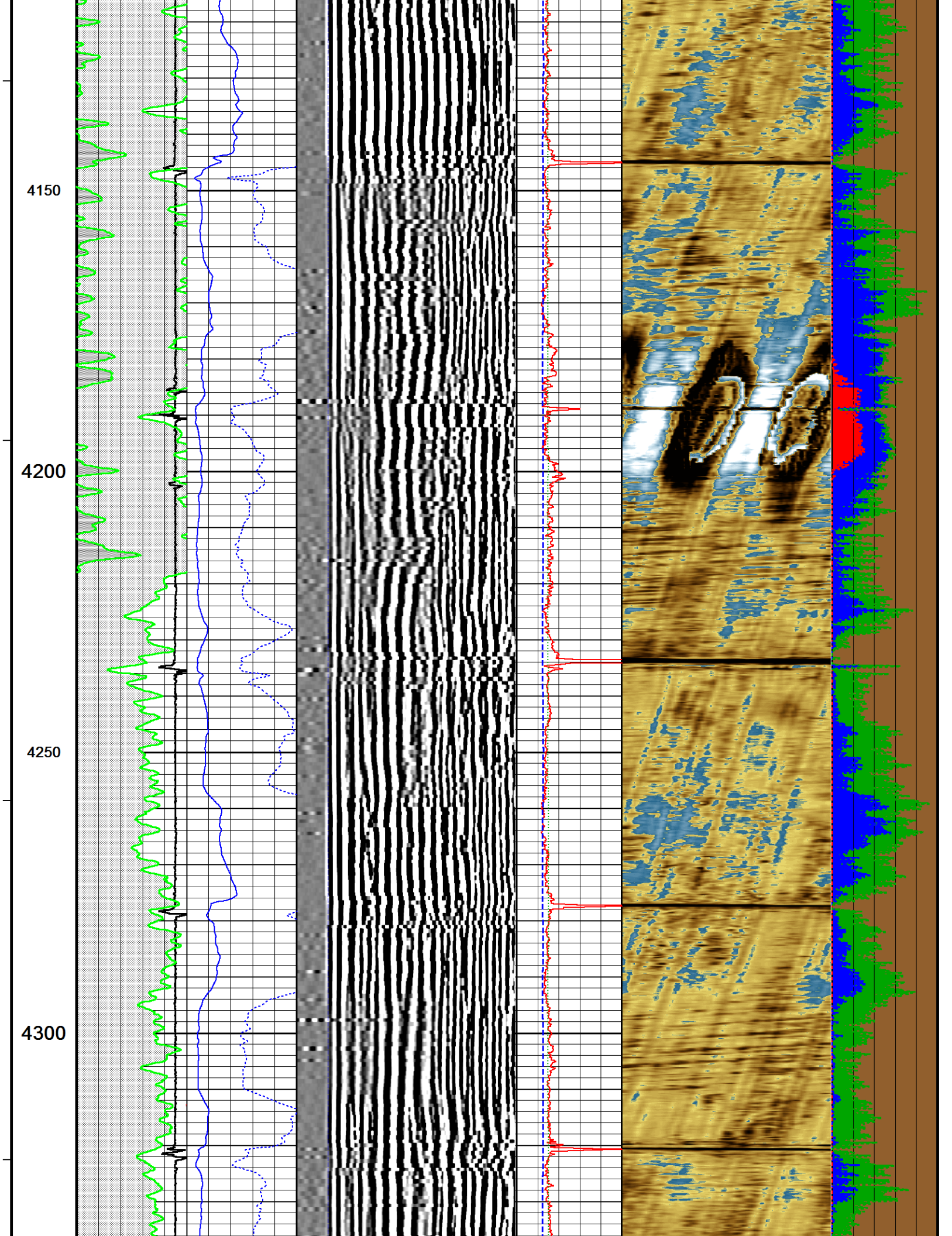














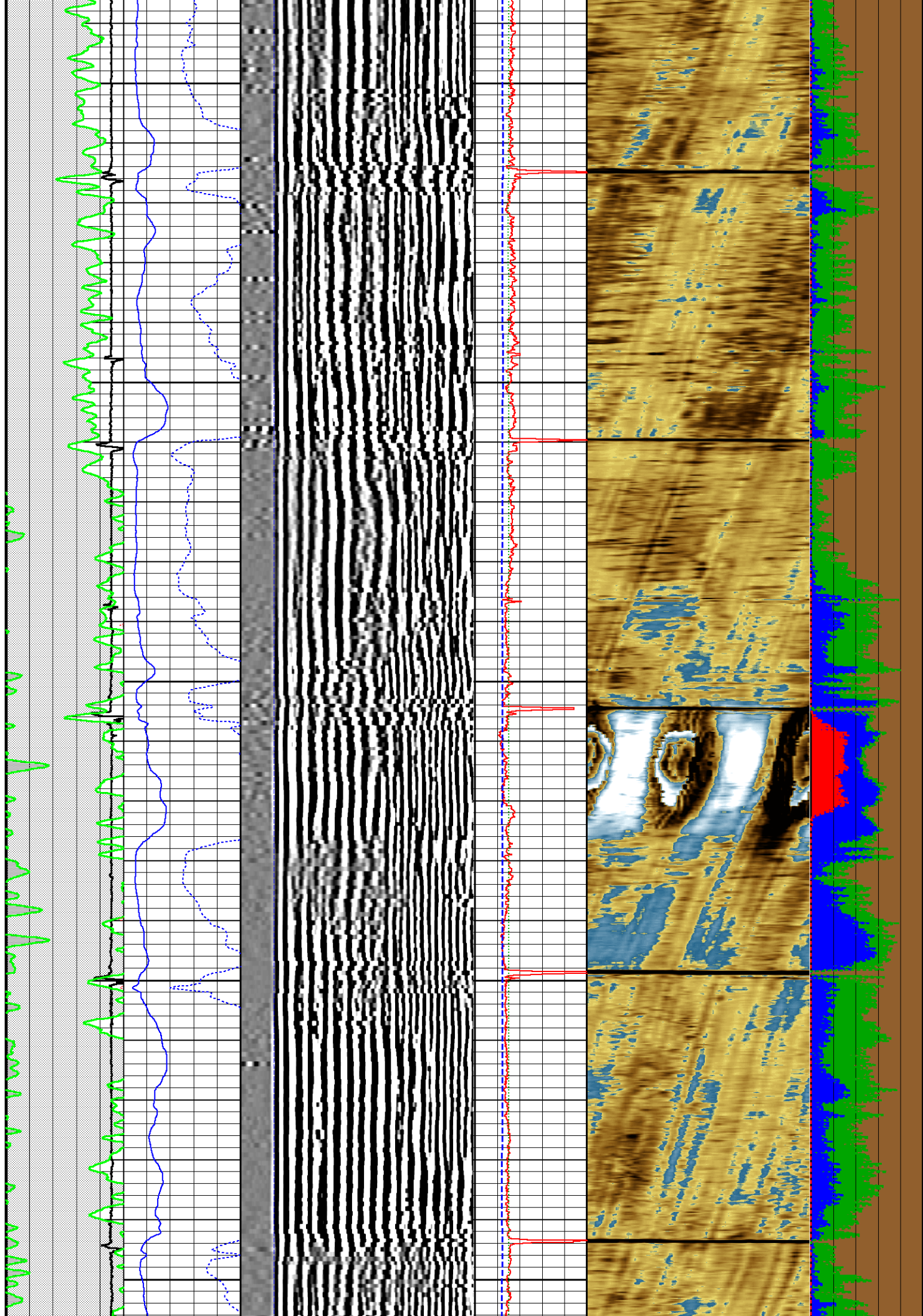
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4400

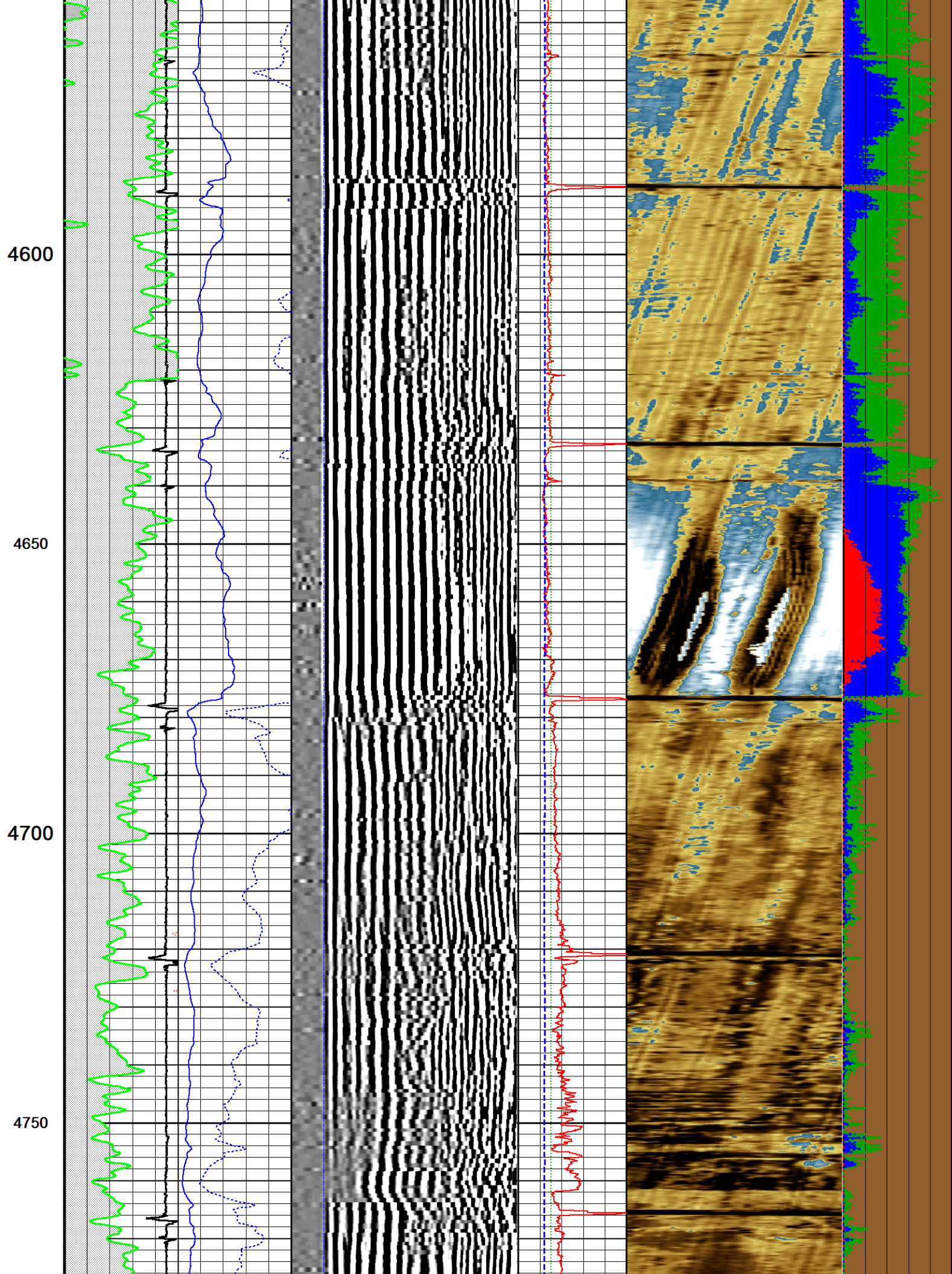
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4500

4550







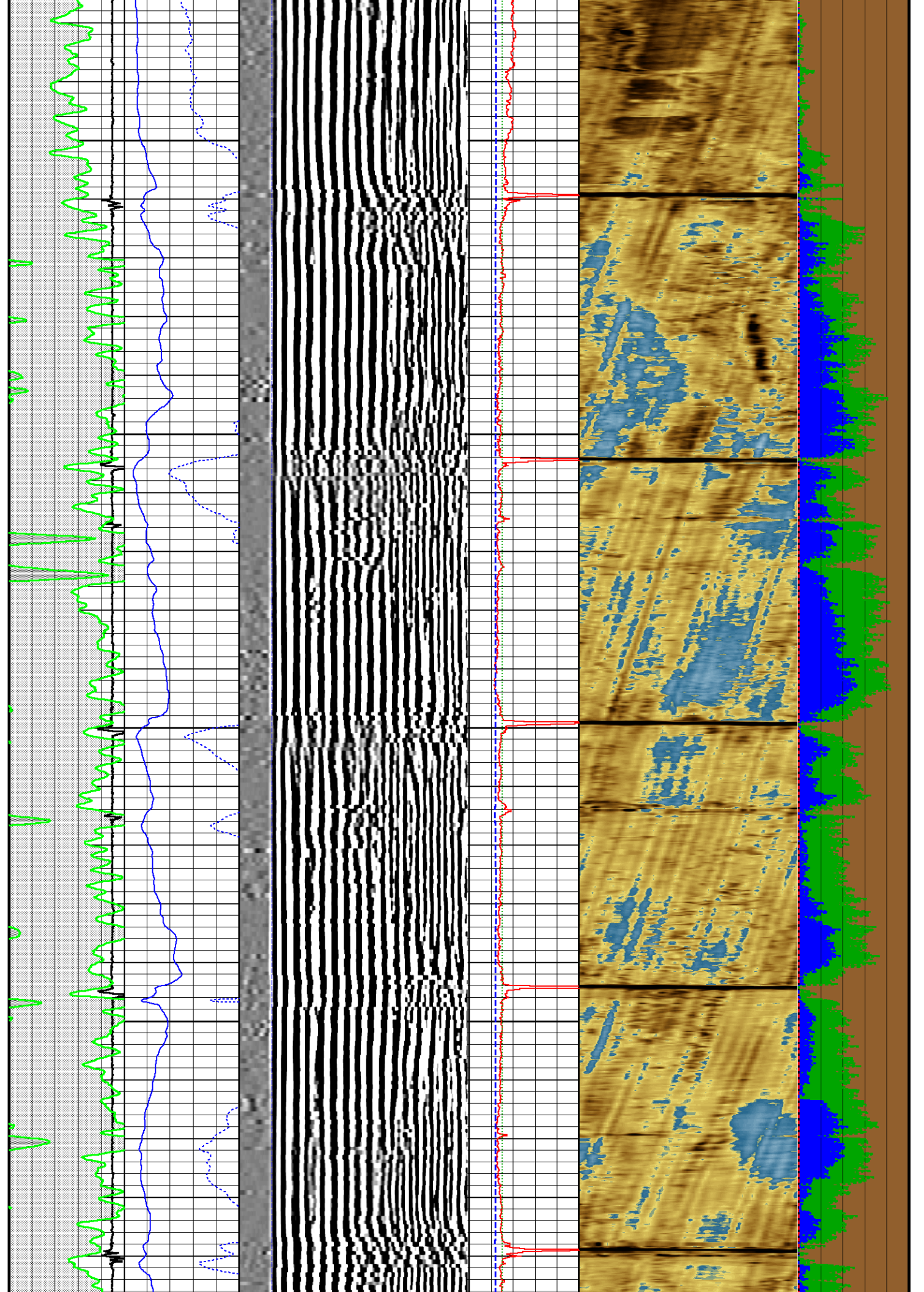


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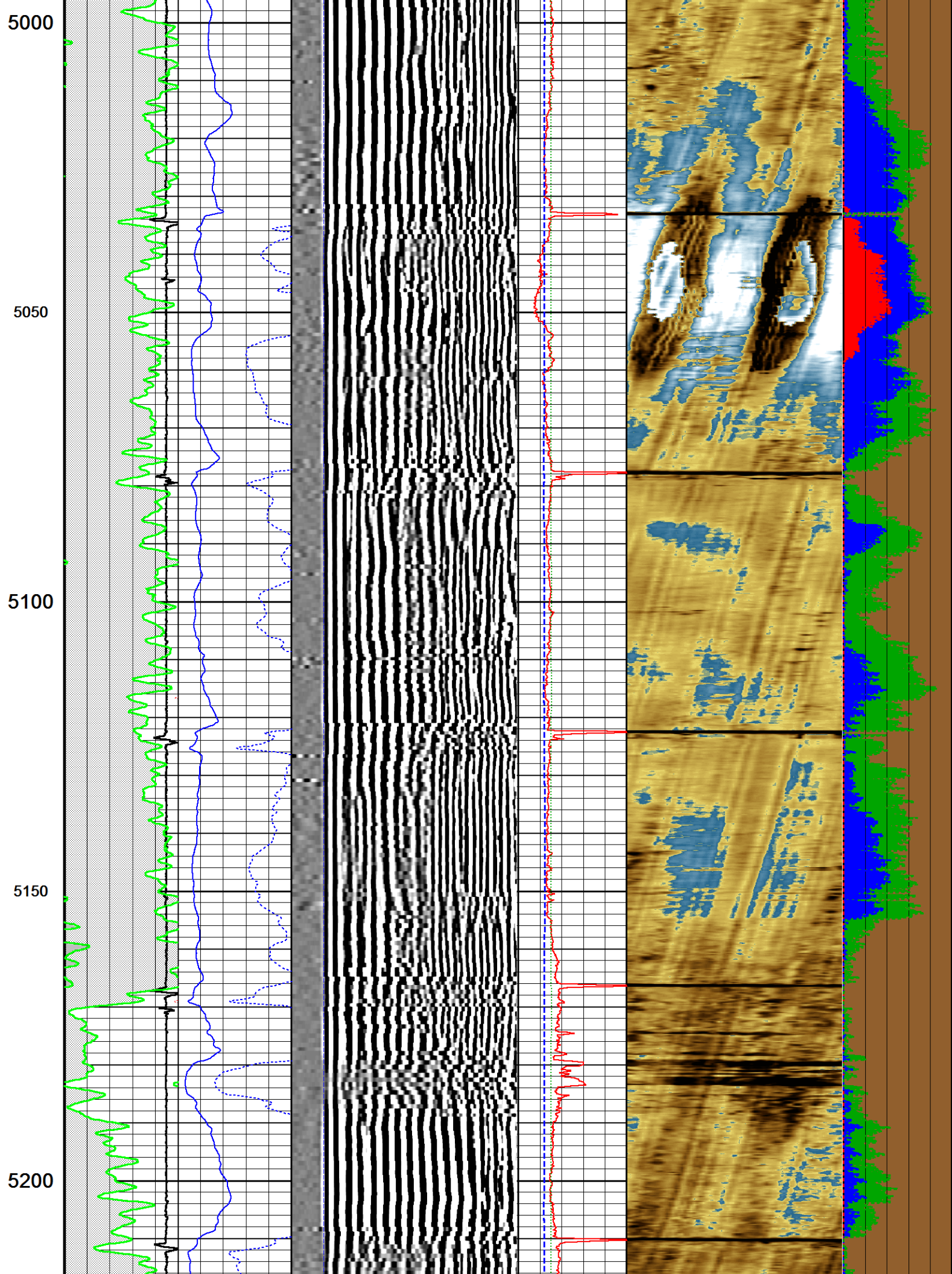
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4900

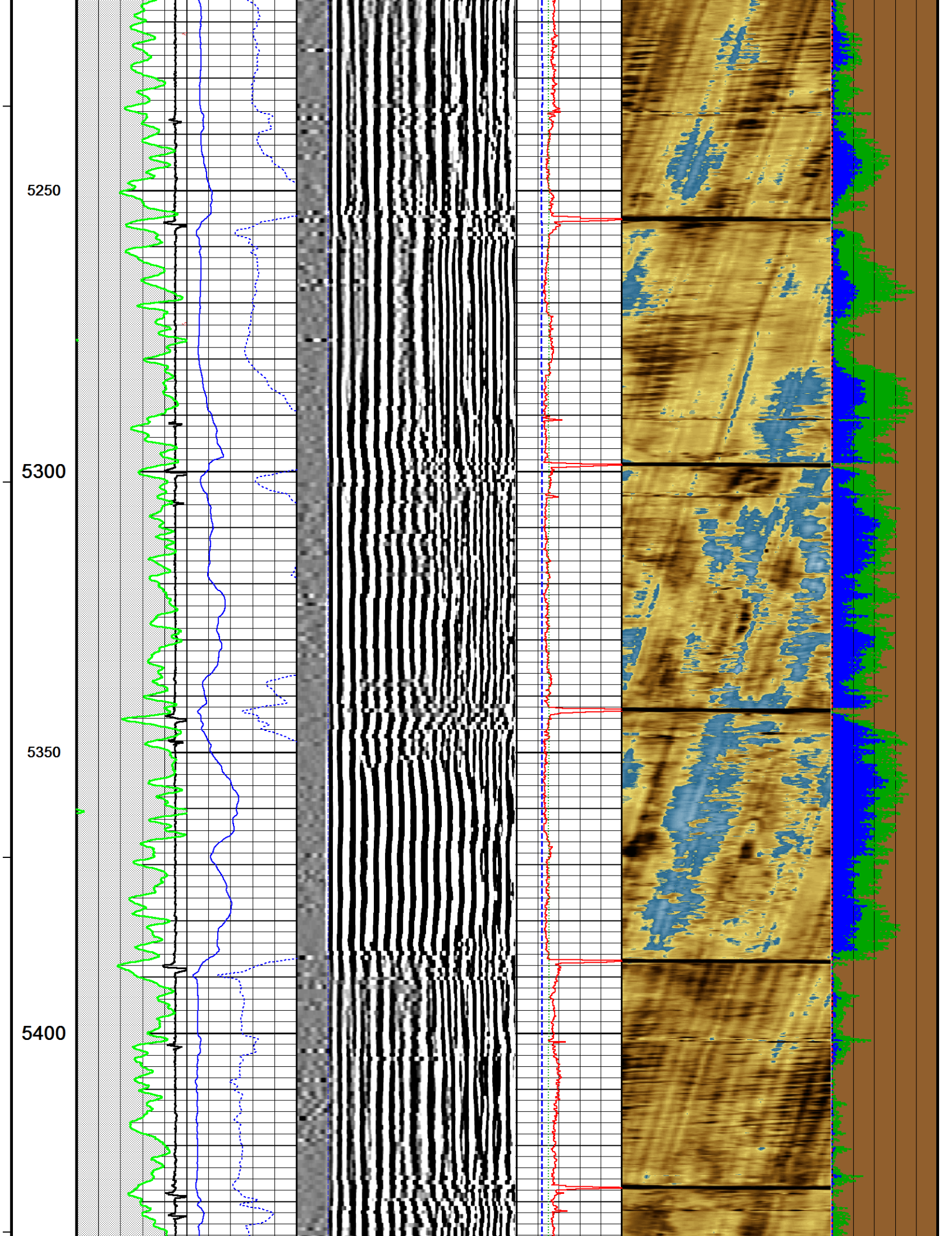
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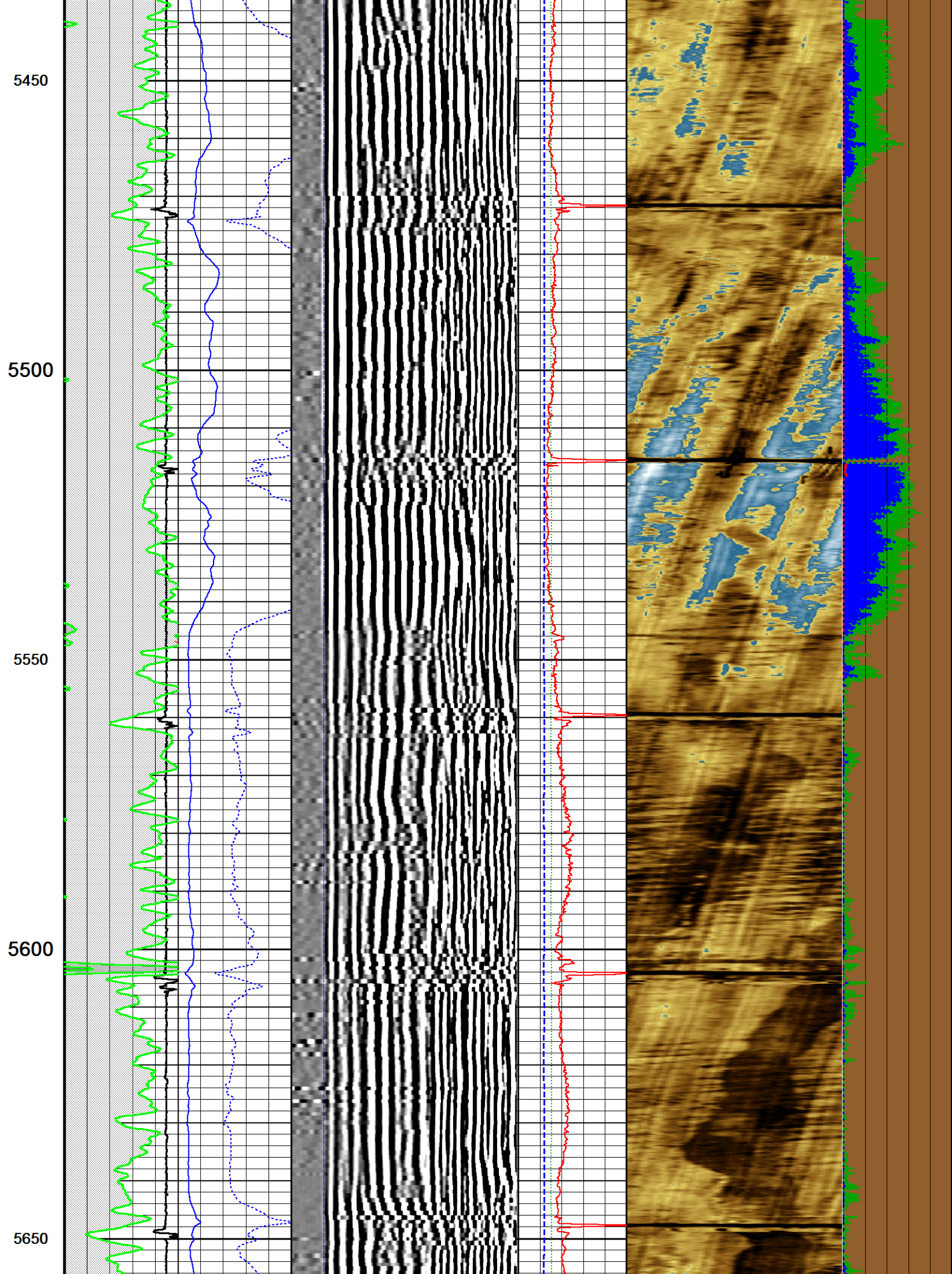




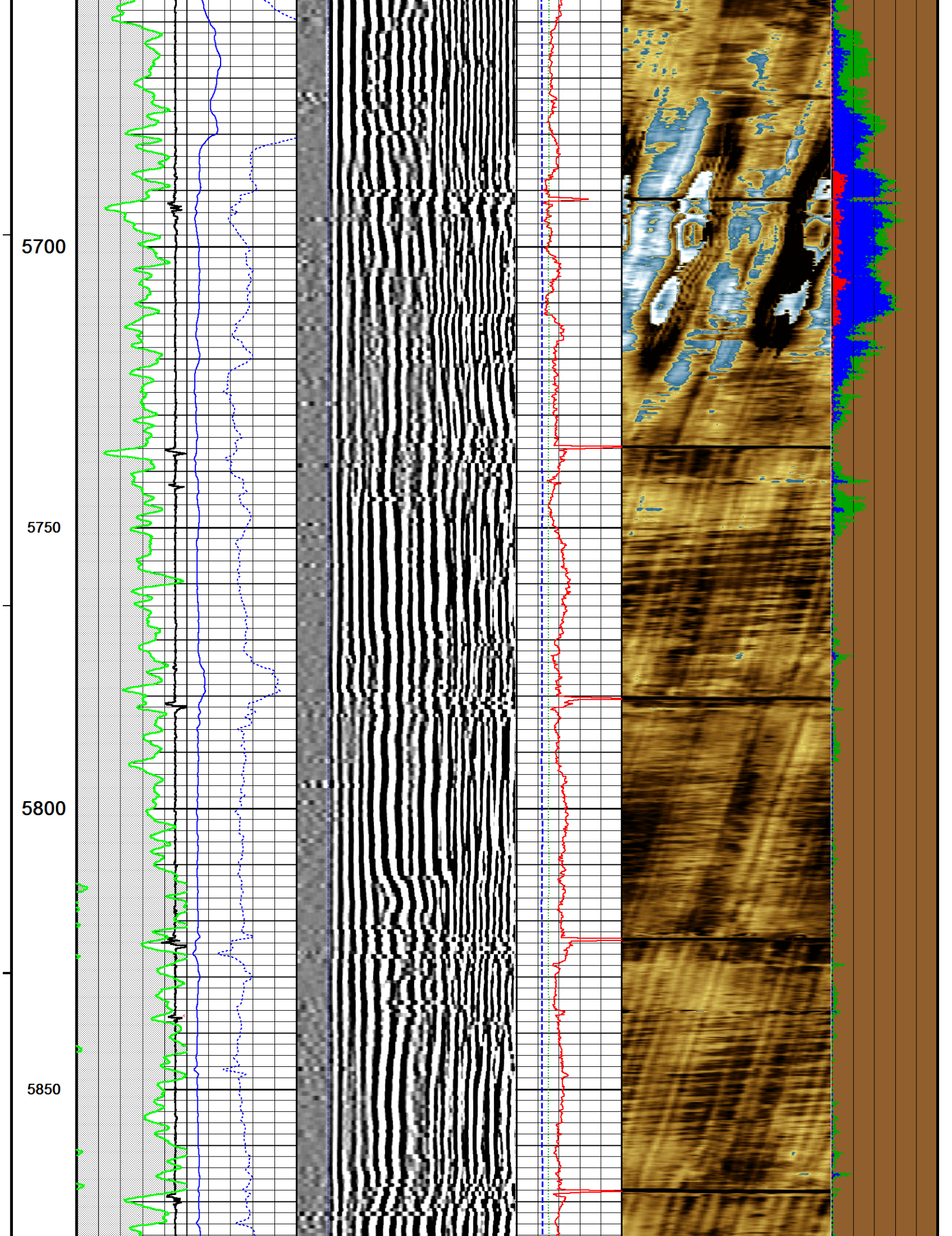




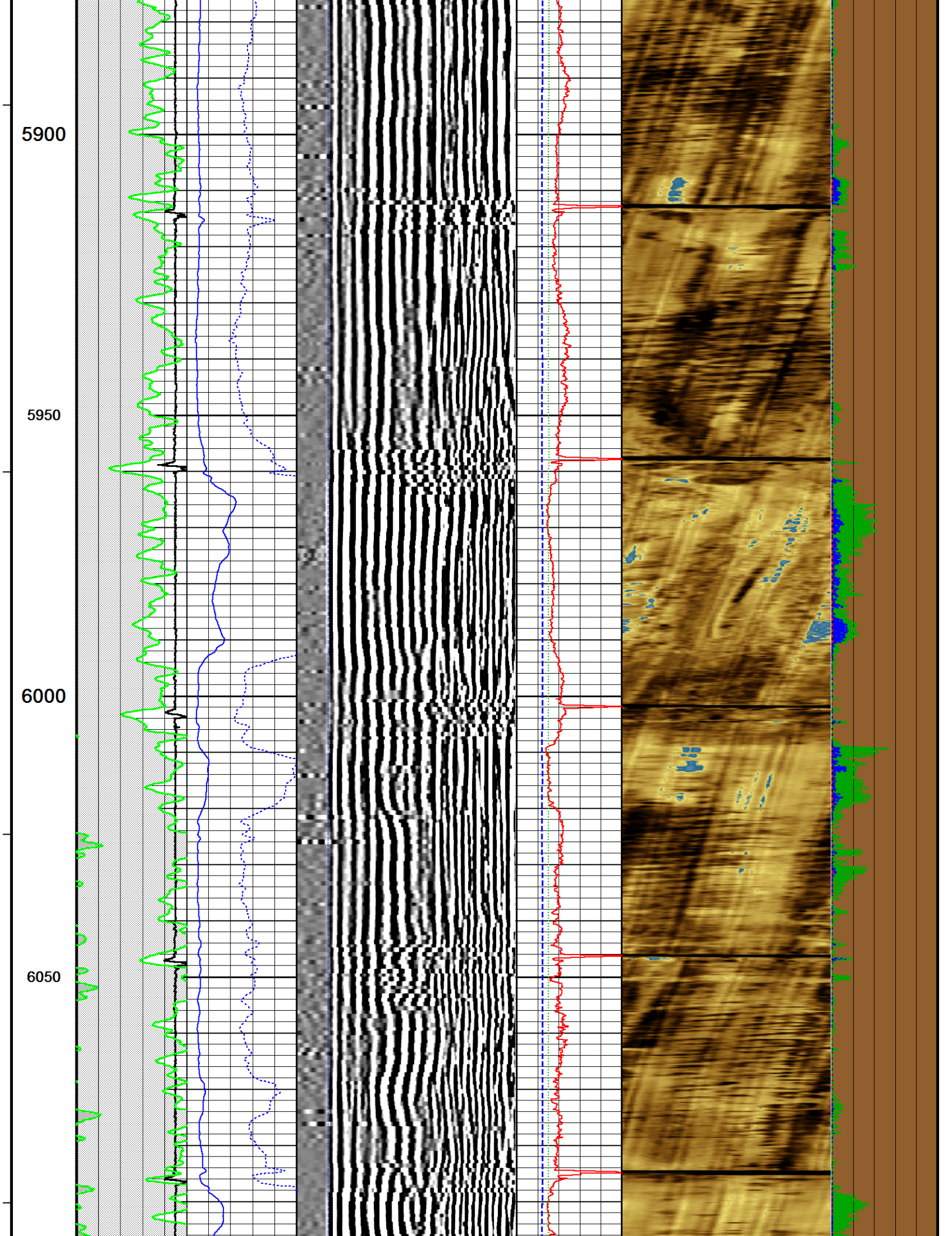




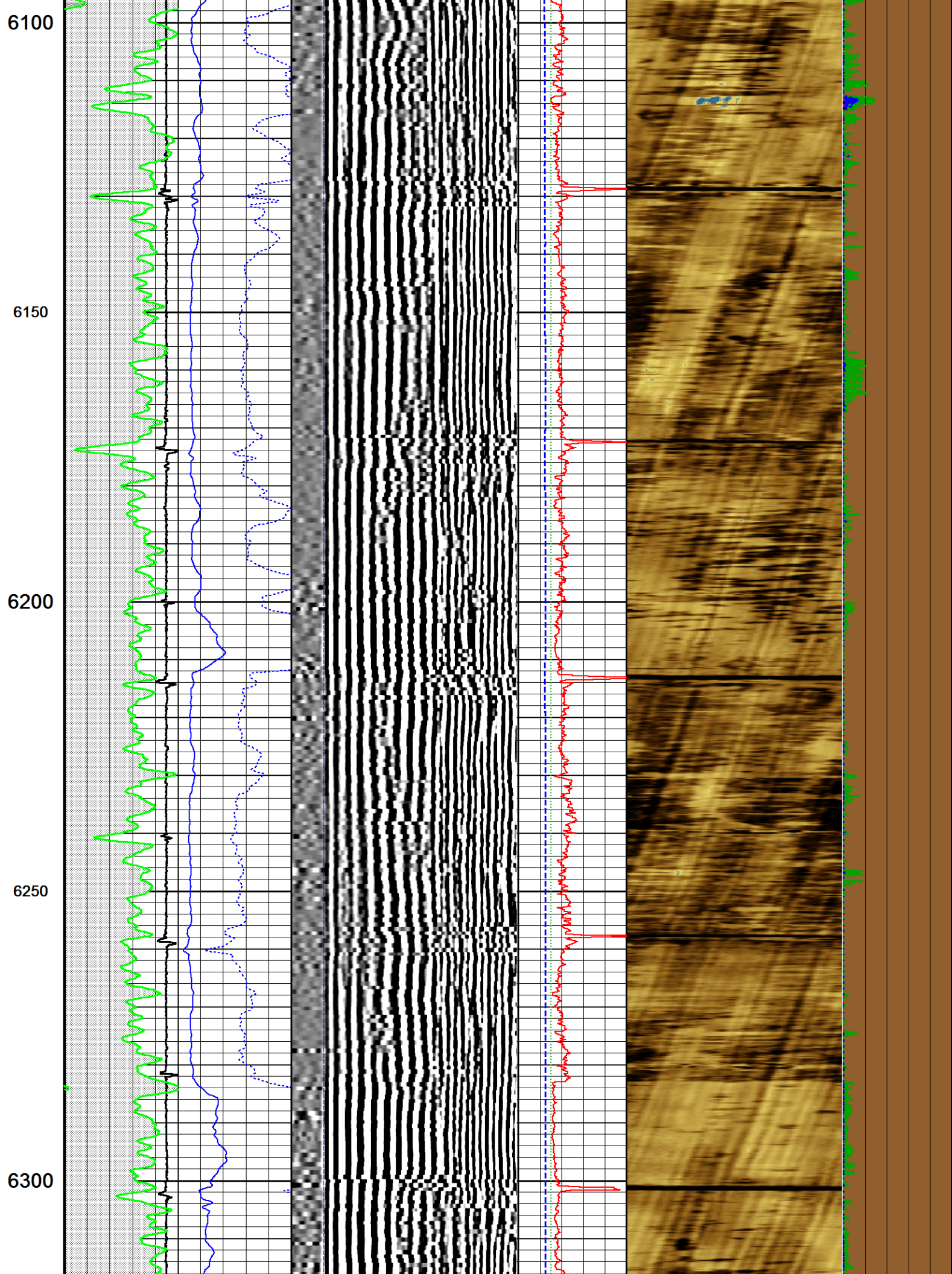




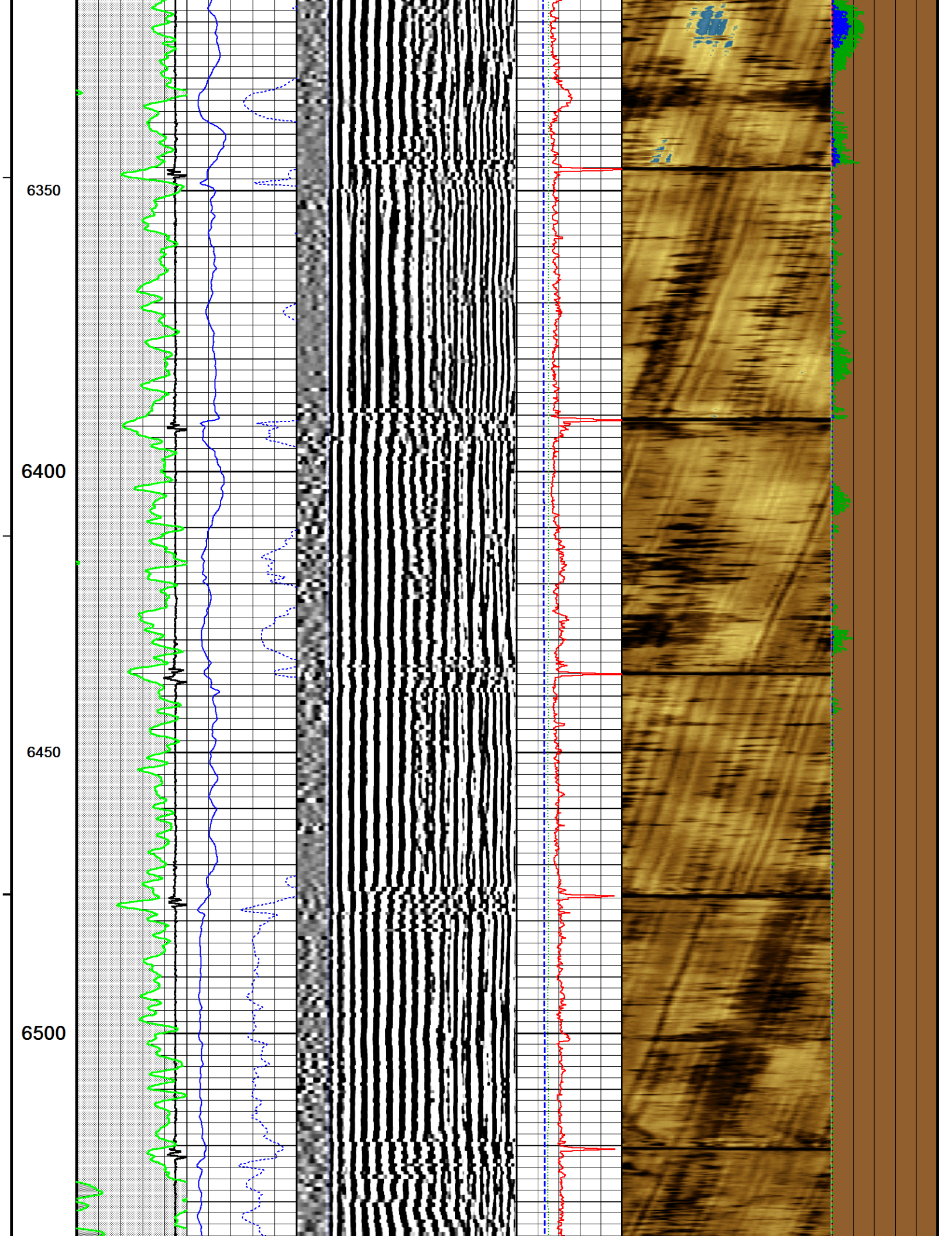




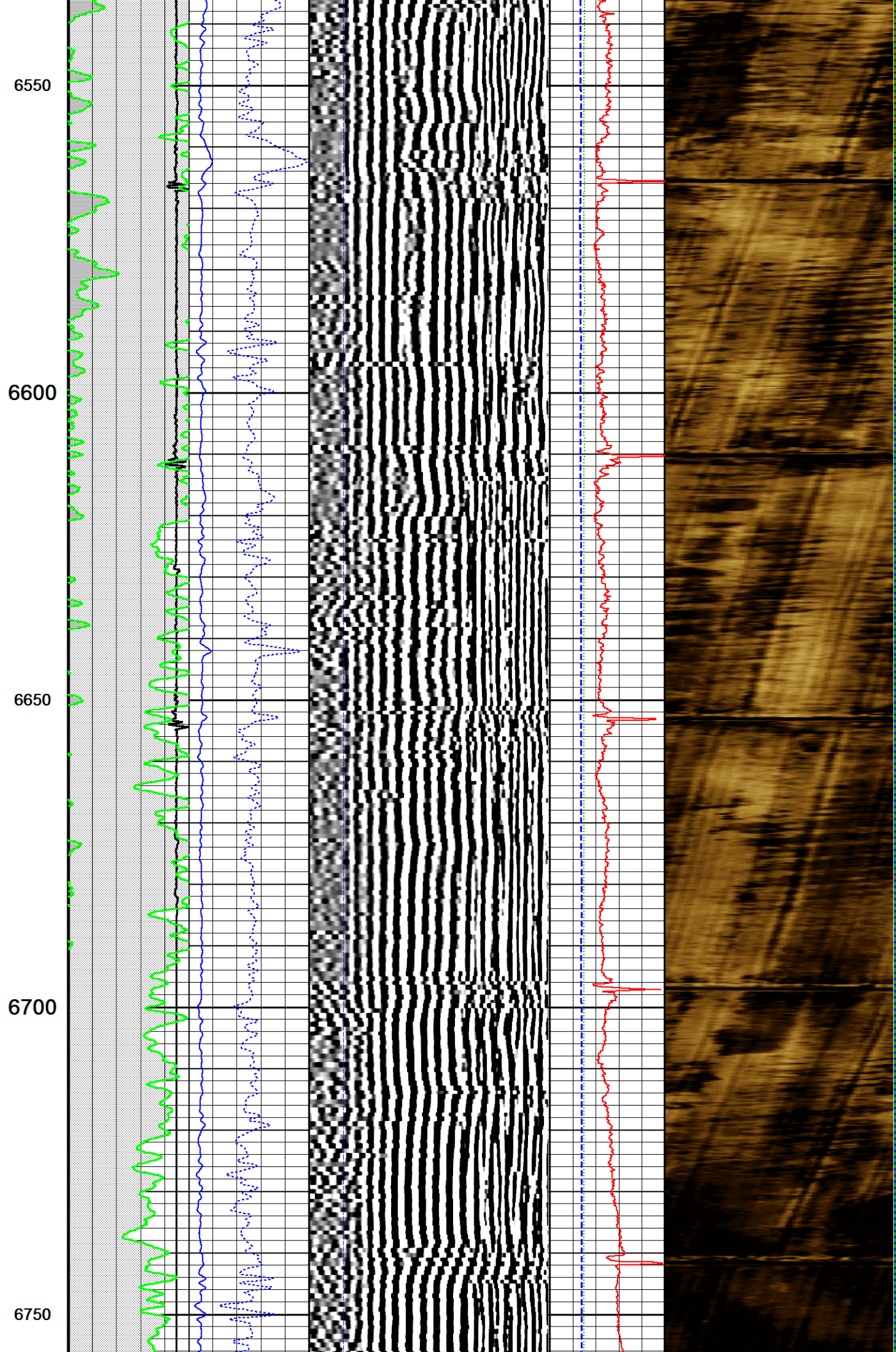














6800

6850

6900

Depth  
in  
Feet

CCL  
MV

AM3F  
MV

XY Signature 5FT  
microseconds

IMAV  
K/M2

Impd Map  
MRAYLS

PGAS  
PERC

GR  
API

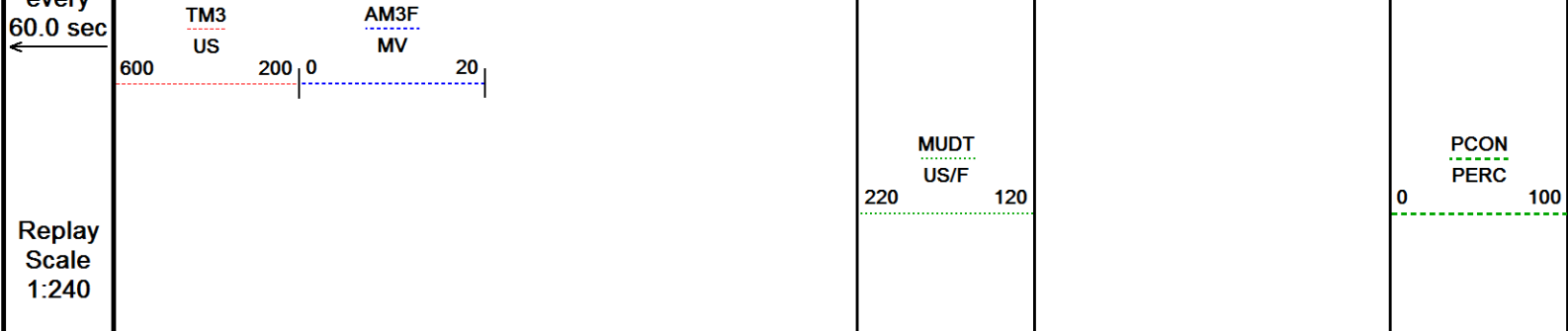
FREE PIPE TRAVEL TIME

IMRF  
K/M2

PGNF  
PERC

Timing  
Marks  
every



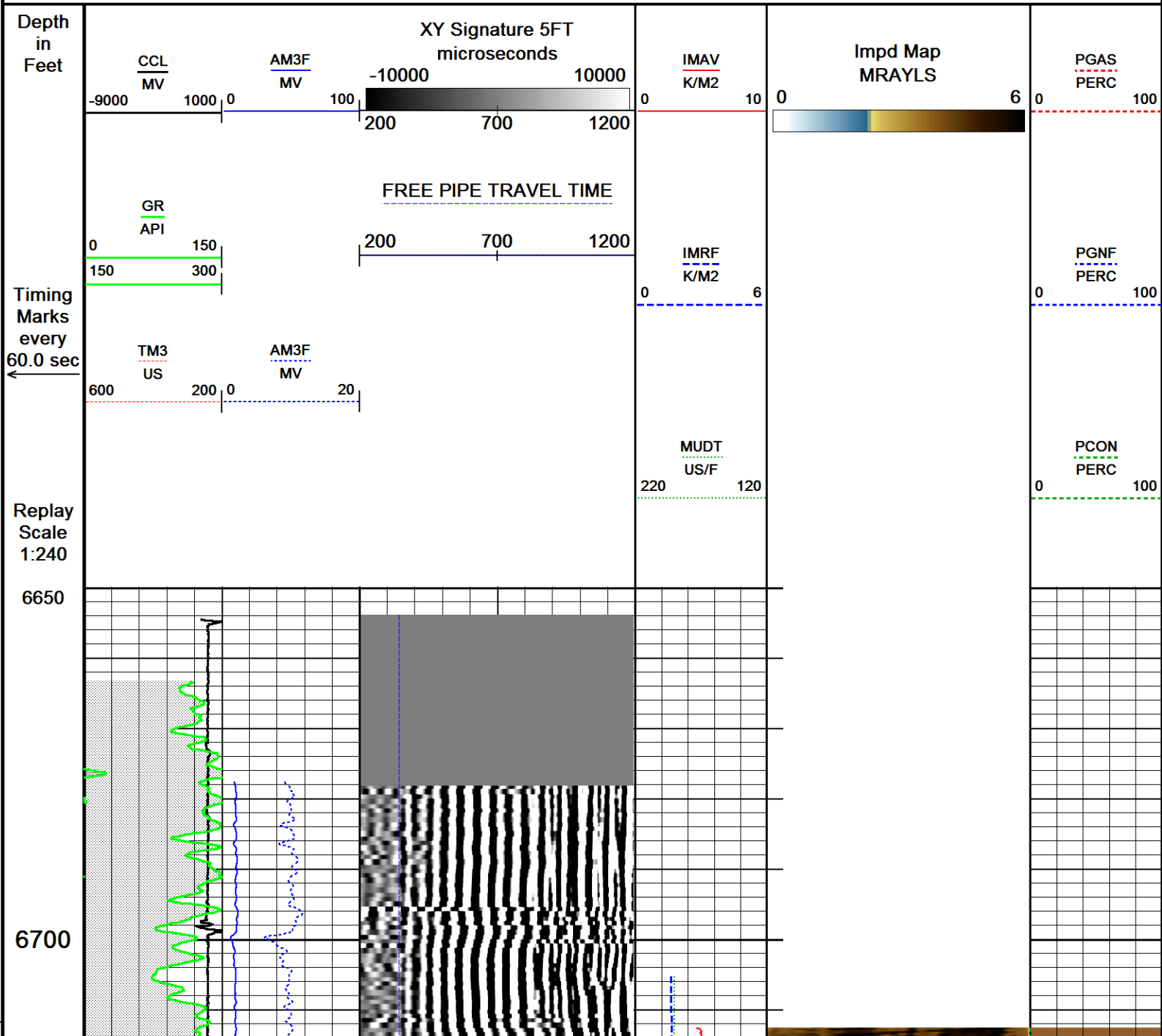


Depth Based Data - Maximum Sampling Increment 2.5cm  
Filename: C:\Logs\Extraction\LEONARD 9C\LEONARD 9C MAIN URS.dta  
System Versions: Logged with 16.05.3841 Plotted with 16.05.3841  
Plotted on 06-OCT-2017 20:42  
Recorded on 06-OCT-2017 12:25

MAIN PASS 1:240

REPEAT PASS 1:240

Depth Based Data - Maximum Sampling Increment 2.5cm  
Filename: C:\Logs\Extraction\LEONARD 9C\LEONARD 9C REPEAT URS.dta  
System Versions: Logged with 16.05.3841 Plotted with 16.05.3841  
Plotted on 06-OCT-2017 20:42  
Recorded on 06-OCT-2017 12:19





6750

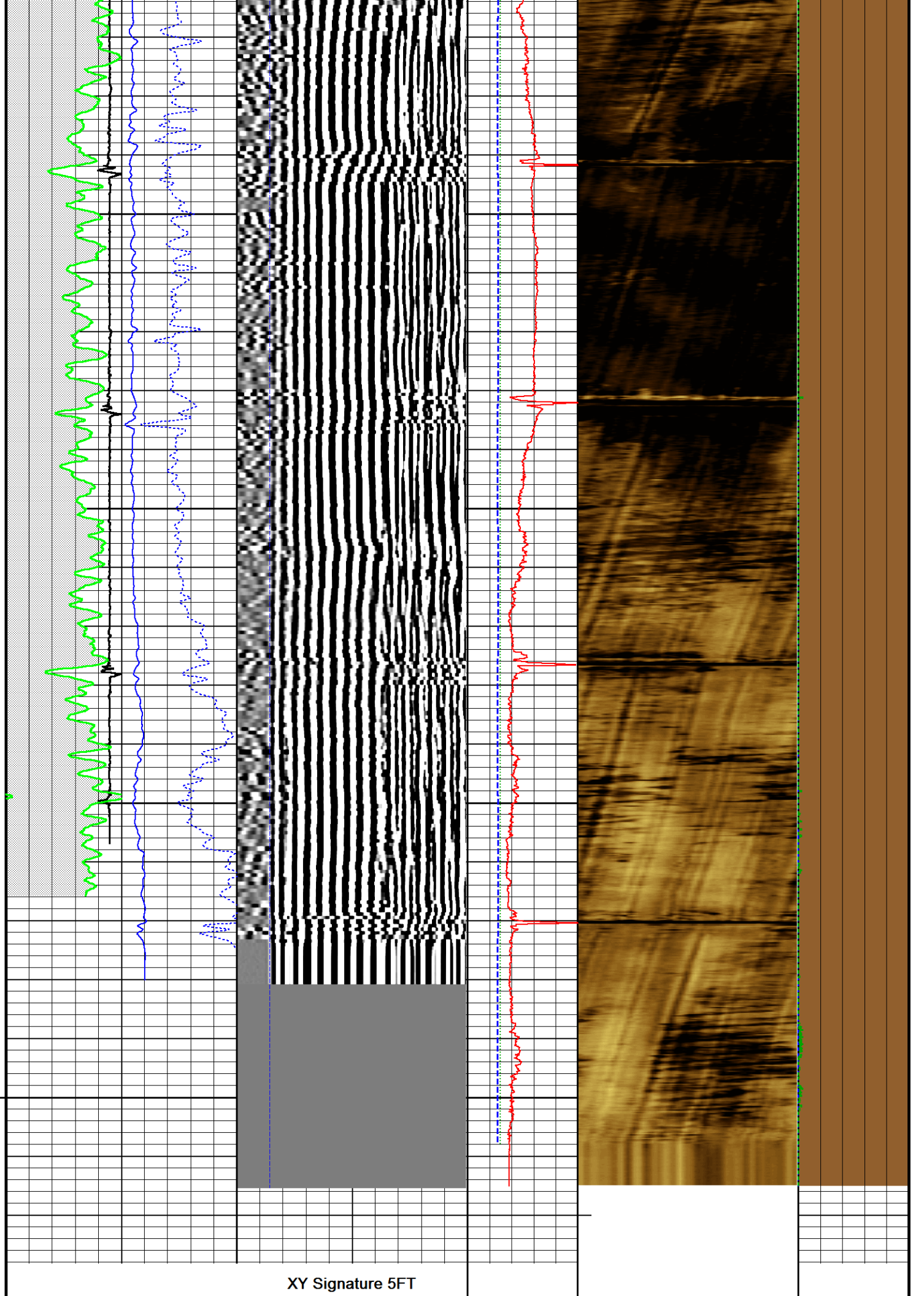
6800

6850

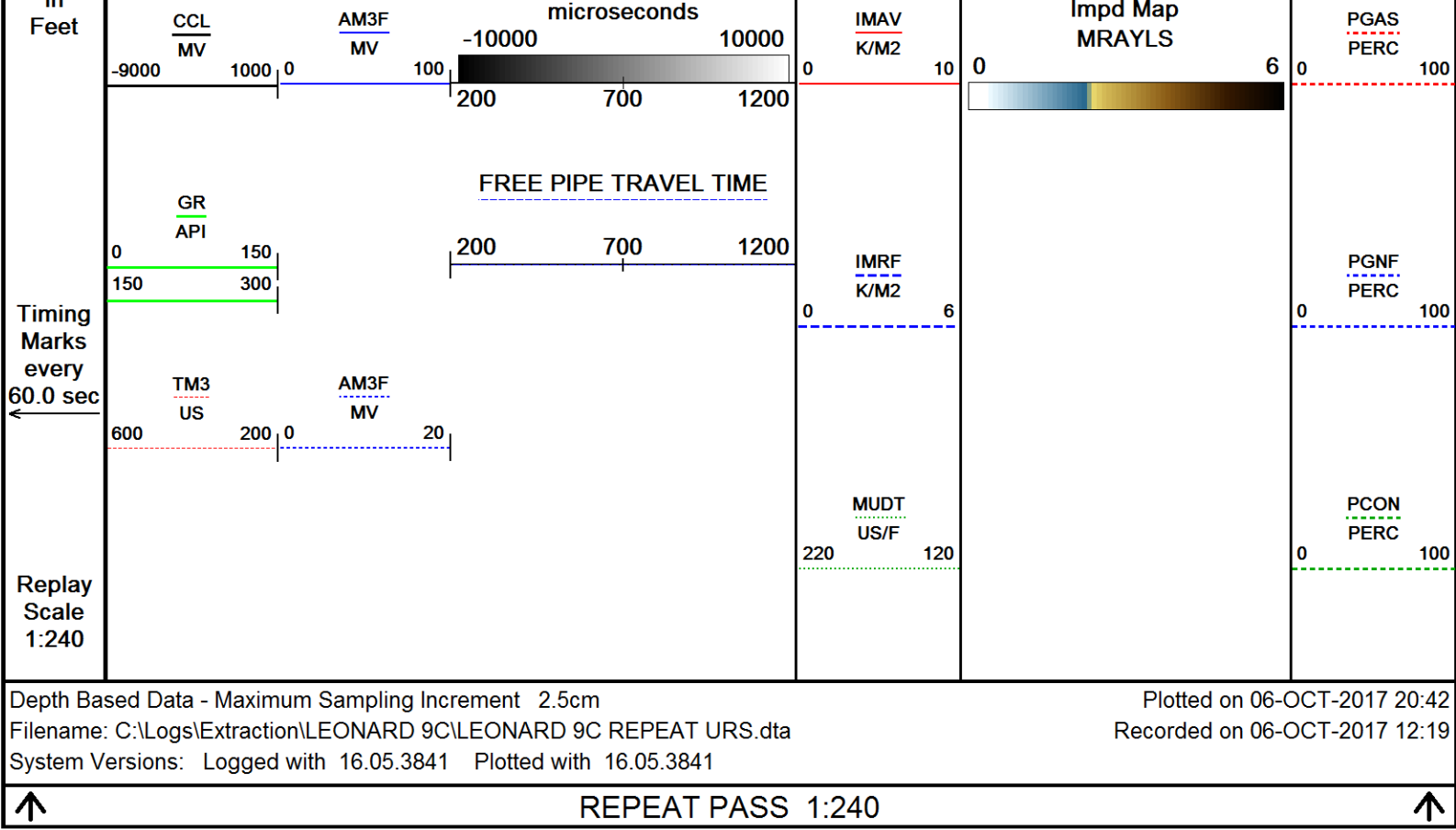
6900

Depth  
in

XY Signature 5FT







SHOP AND FIELD CALIBRATIONS			
C:\Logs\Extraction\LEONARD 9C\LEONARD 9C MAIN URS.dta			
CBT Field Calibration CBT-AA 109			
Field calibration on 17-JAN-2017 08:32			
Cement Bond Tool Amplitude Field Calibration			
Tool Type	CBT-AA	Serial No	109
Free Pipe Depth			
Sensor	Description	Standard(mv)	Measured(mv)
AMP 3 FT	100 % Bond	2.10	0.00
	Free Pipe	62.00	782.93
AMP 5 FT	100 % Bond	1.40	0.00
	Free Pipe	41.00	509.99

CBT Constants CBT-AA 109		Last Edited on 06-OCT-2017 12:23	
Min Ampl 100% Bond	2.00 MV		
Max Ampl 0% Bond	72.00 MV		
Cement Cmpr Strength	580 PSI		
Casing Size	5.50 IN		
Casing Weight	20.0 LB/F		
Casing Velocity	57.00 US/F		
DT Fluid	200.0 US/F		
Maximum Attenuation	12.00 DB/F		
3' TT Correction	0.0 US		
Cement Weight	0.00 LB/G		

## DOWNHOLE EQUIPMENT

C:\Logs\Extraction\LEONARD 9C\LEONARD 9C MAIN URS.dta

### Mono-Cablehead

MCH-AA 0 LG: 1.03 ft WT: 2.2 lb OD: 1.457 in

### Crossover 1-pin to 55-pin for WCC-D

XOV-WC 119 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

### Swivel Head 55 pin

SWH-CB 137 LG: 2.72 ft WT: 77.2 lb OD: 3.346 in

### Casing Collar Locator, 55 pin

CCL-WA 197 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in

### Communication Cartridge 55pin 3-3/8in

WCC-DA 141 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

### Gamma Ray

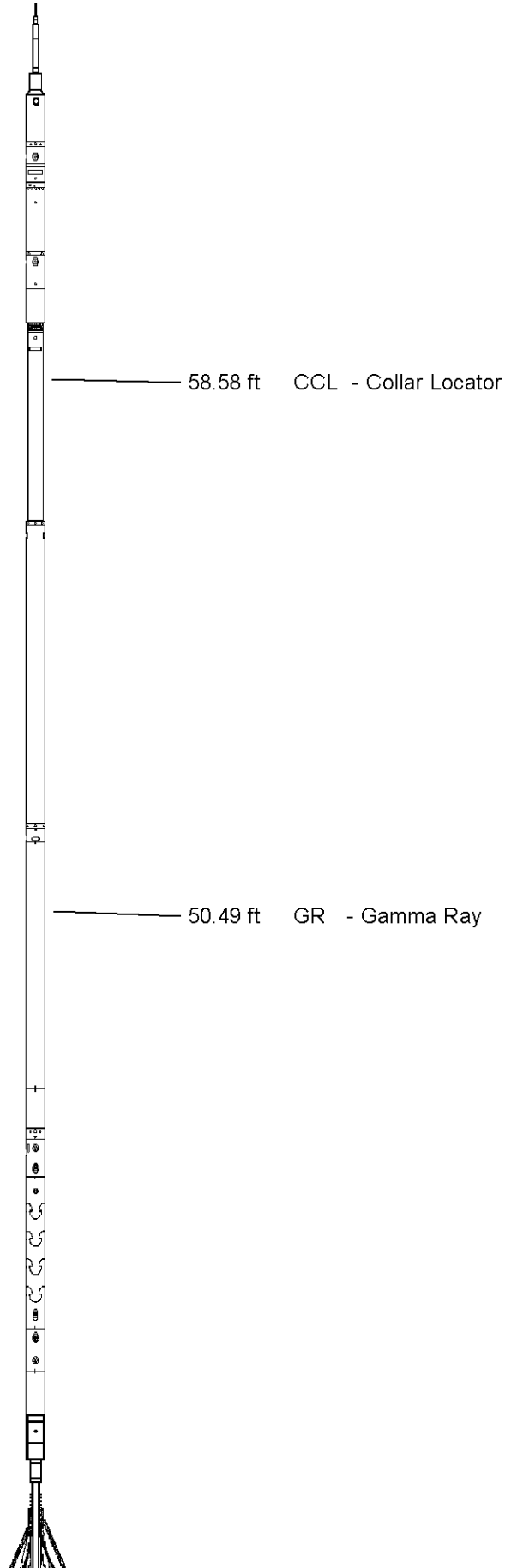
UGR-JD 118 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

### Flexible Joint, URS, 55 Pin

FTP-FA 132 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in

### 55 pin Roller Centralizer

CEN-XA 213 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in





Cement Bond Tool

CBT-AA 109 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in

35.79 ft AM3F - Amplitude 3FT

35.79 ft TM3 - Travel Time 3FT

34.79 ft XY5 - XY Signature 5FT

55 pin Roller Centralizer

CEN-XA 132 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Flexible Joint, 55 Pin

FTP-AA 134 LG: 3.44 ft WT: 77.2 lb OD: 3.346 in

55 pin Roller Centralizer

CEN-XA 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

URS Electronics Cartridge

UCC-AA 132 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

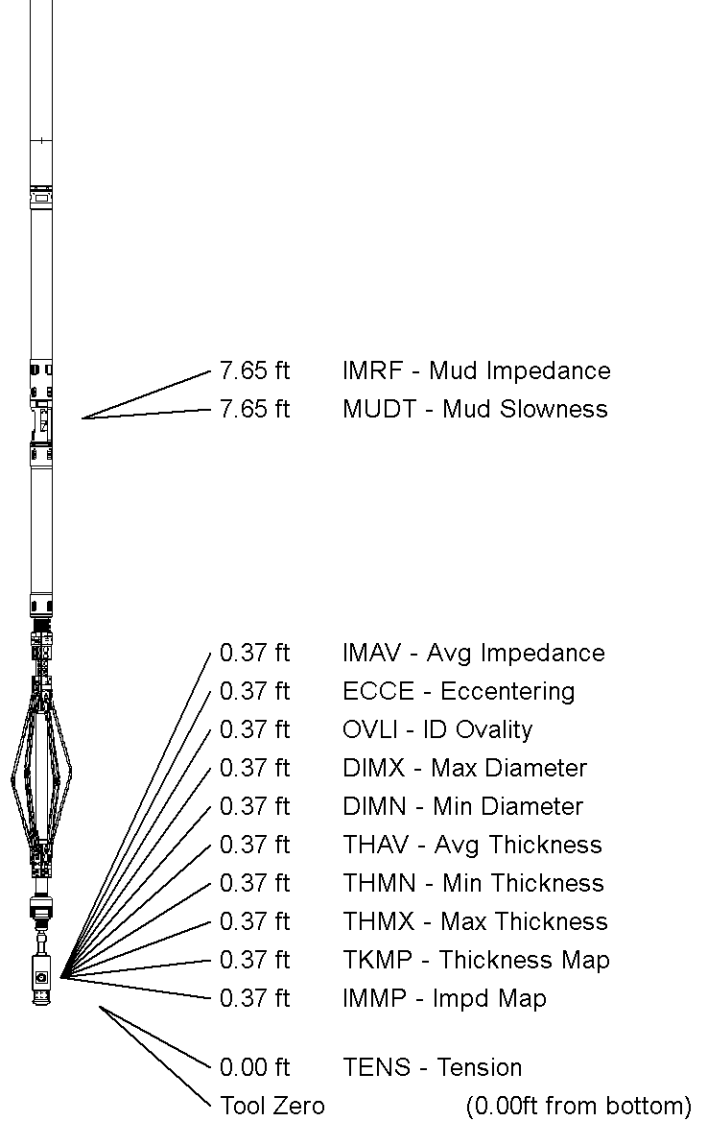
URS Sonde Section

USS-AB 179 LG: 9.65 ft WT: 167.6 lb OD: 3.386 in

Ultrasonic Radial Scanner Head A

USH-AB 136 LG: 1.03 ft WT: 13.2 lb OD: 3.386 in

Total Length: 64.23 ft Weight: 1108.9 lb



All measurements relative to tool zero.

COMPANY	EXTRACTION OIL & GAS
WELL	LEONARD 9C
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	5032	feet	Bottom Log Interval	6900.00	feet
Elevation Drill Floor	5032	feet	Depth Driller	12330.00	feet
Elevation Ground Level	5004	feet	Depth Logger	6900.00	feet



**Weatherford®**

SECUREVIEW  
ULTRAVIEW/BONDVIEW  
CEMENT ANALYSIS