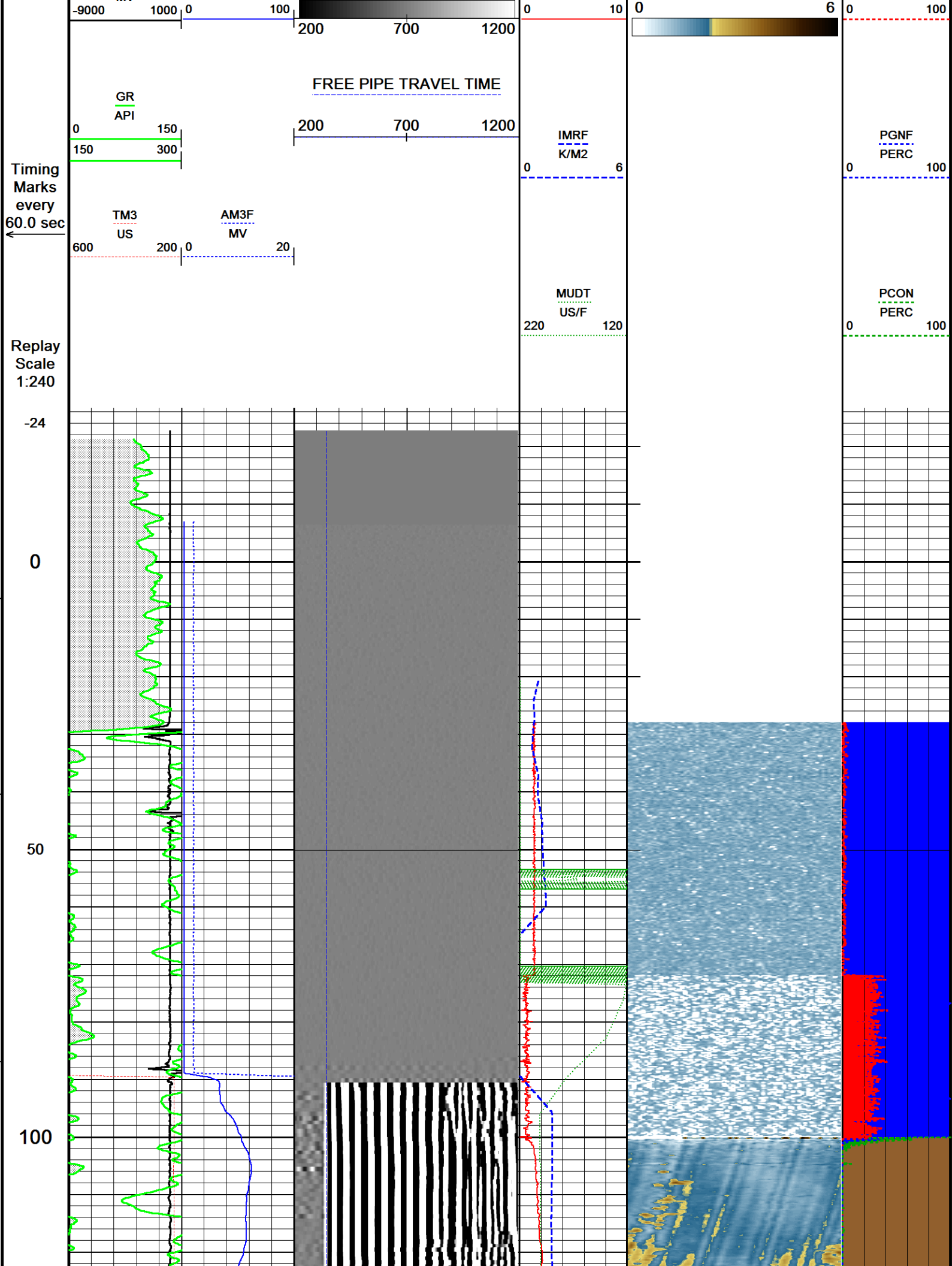
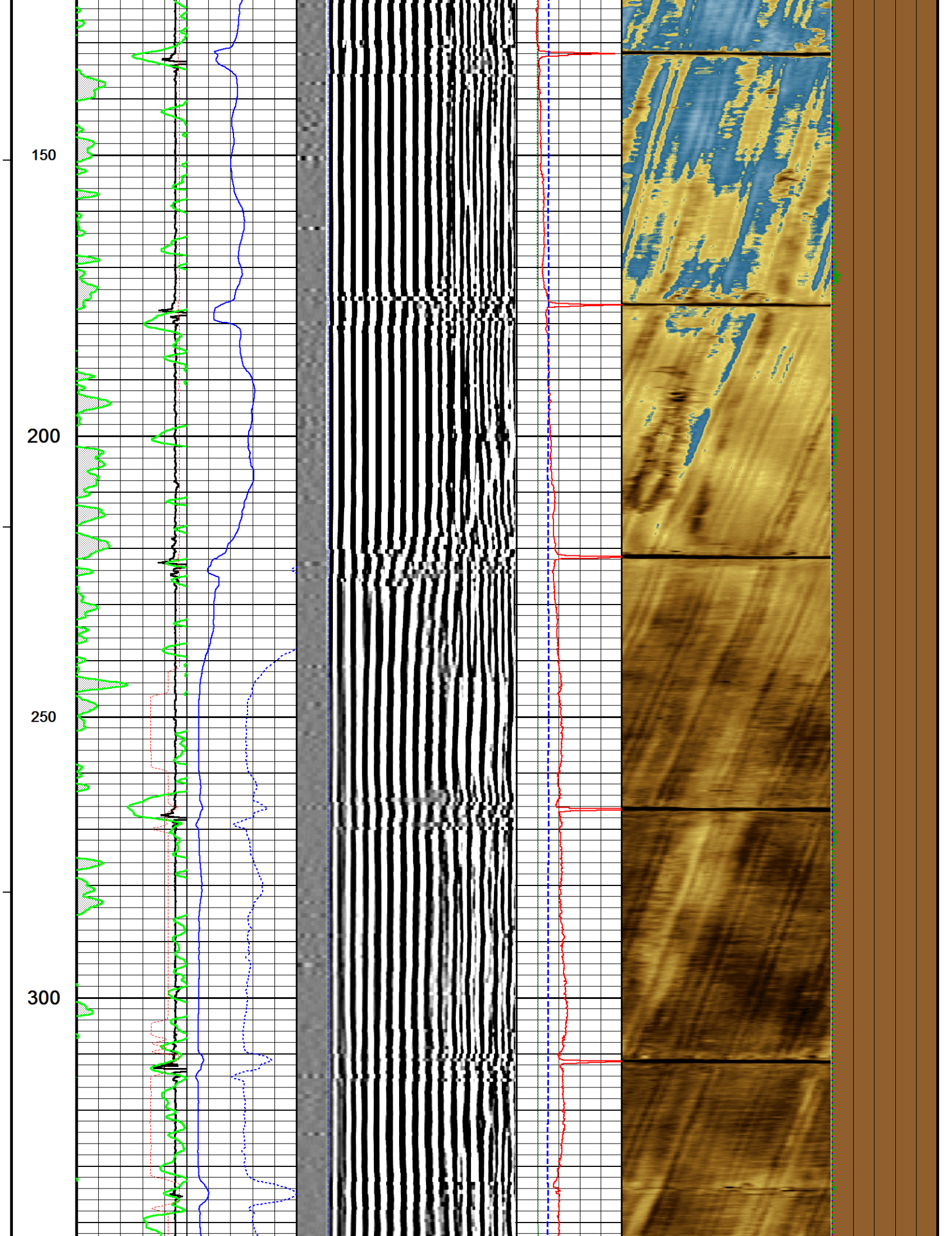
				SECUREVIEW			
				ULTRAVIEW/BONDVIEW			
				CEMENT ANALYSIS			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				EXTRACTION OIL & GAS LEONARD 10N WATTENBERG WELD USA / COLORADO			
SEC 21	TWP 2N	RGE 67W	Other Services				
Latitude		Longitude					
API Number		051234505000					
Permanent Datum GROUND LEVEL, Elevation 5004 feet				Elevations: KB 5032.00			
Log Measured From KB, 28 feet above Permanent Datum				DF 5032.00			
Drilling Measured From KB				GL 5004.00			
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	12118.00						
Depth Logger	6900.00						
Top Log Interval	0.00						
Bottom Log Interval	6900.00						
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	12118.00	
Unit	14115						
Equipment Name	WSS-E						
Base	CASPER						
Recorded By	P. MAZUR						
Witnessed By							

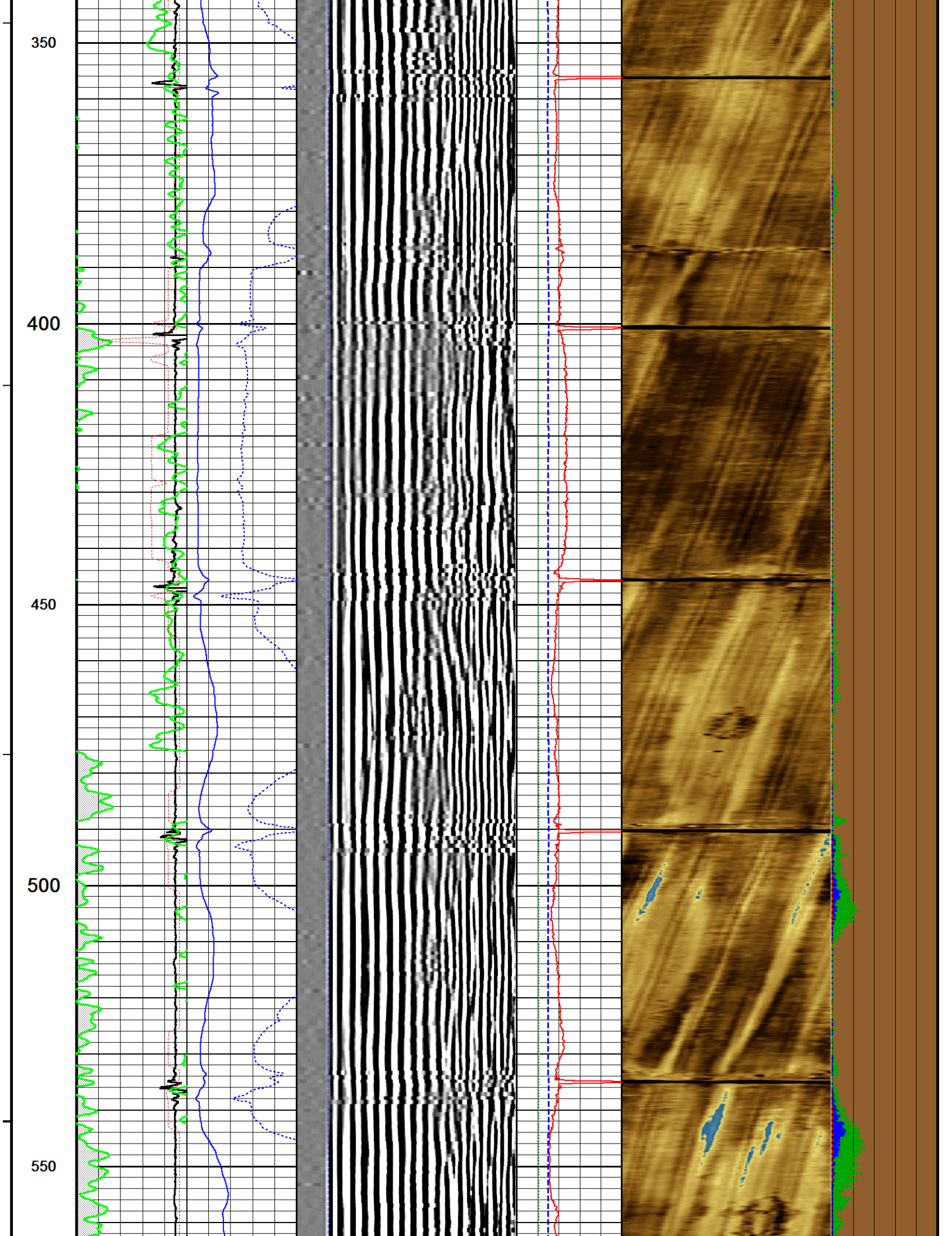
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	P 110	LTC	5.500	0.00	12118.00	20.00

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 18:04	
Filename: C:\Logs\Extraction\LEONARD 10N\LEONARD 10N MAIN URS FINAL.dta						Recorded on 06-OCT-2017 12:13	
System Versions: Logged with 16.05.3841 Plotted with 16.05.3841							
Depth in Feet	XY Signature 5FT microseconds				IMAV K/M2	Impd Map MRAYLS	PGAS PERC
	CCL MV	AM3F MV	-10000	10000			





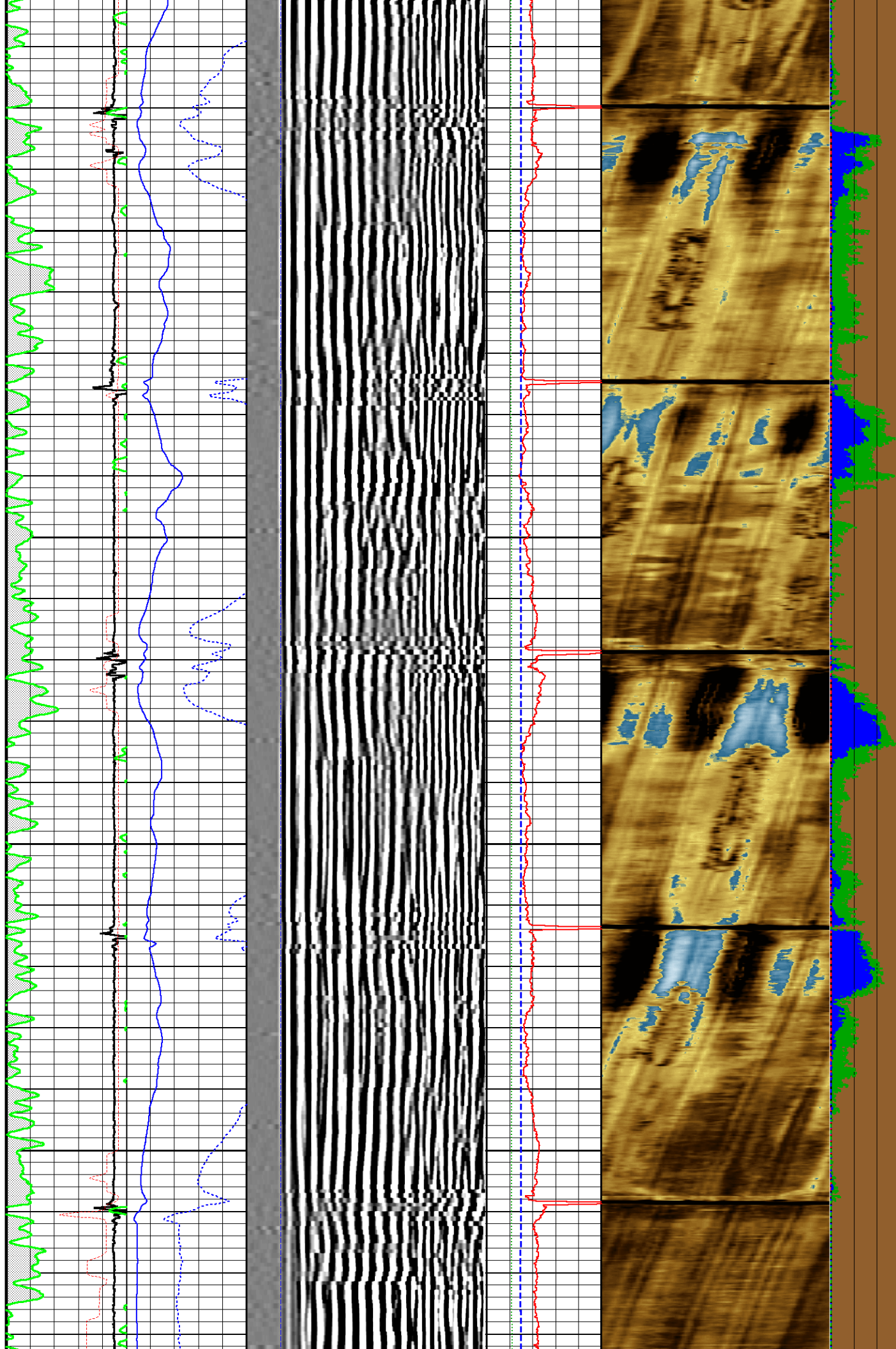


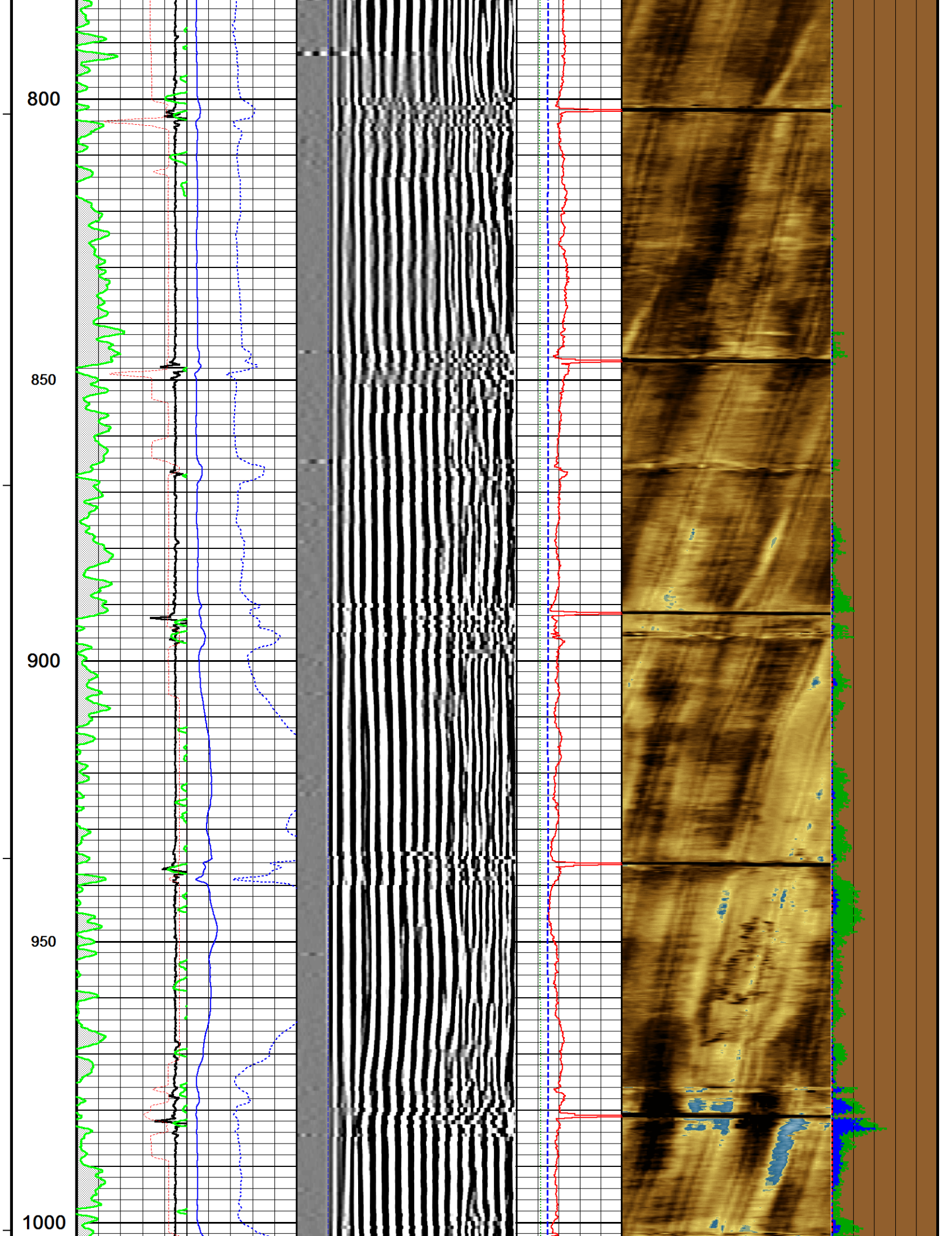
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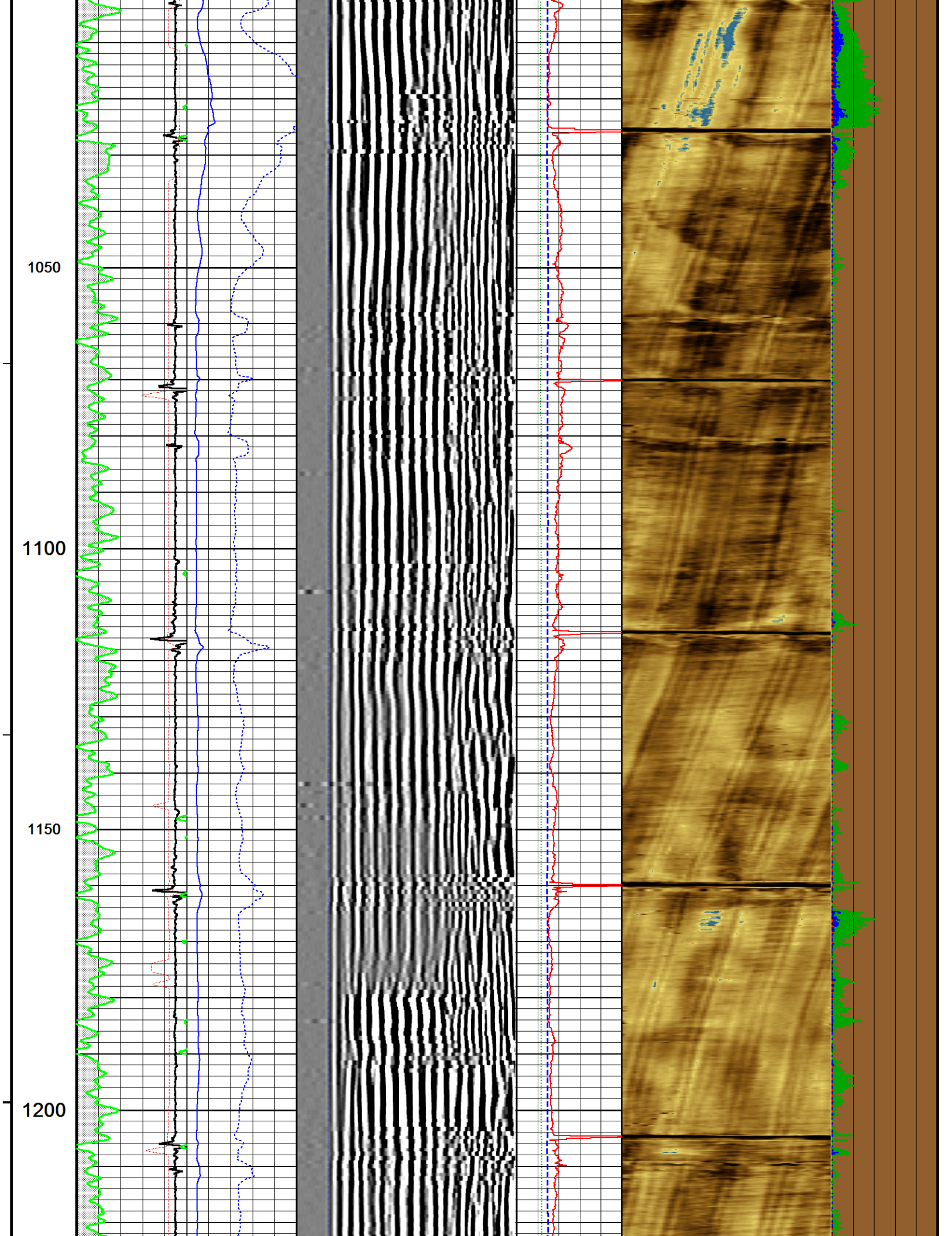
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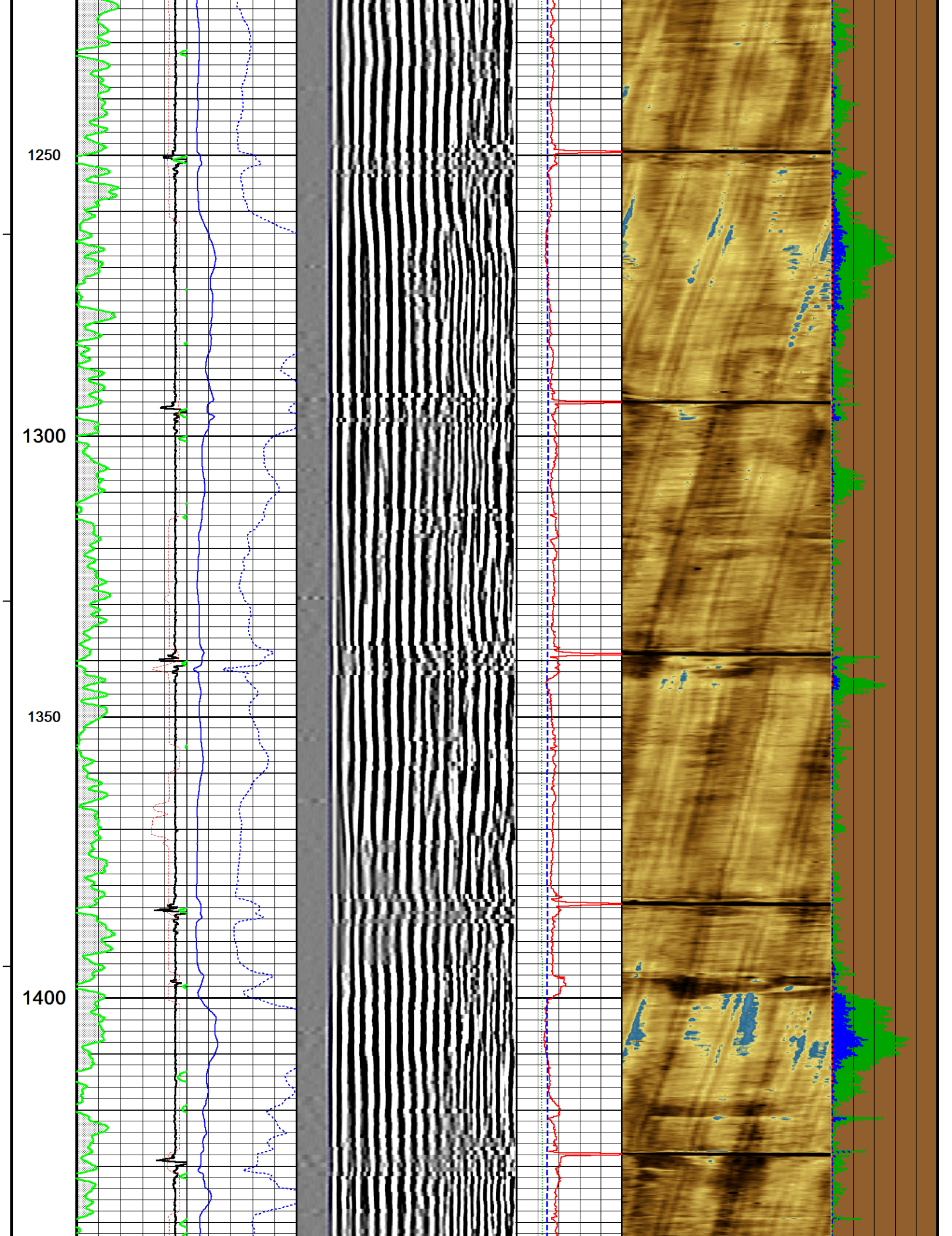
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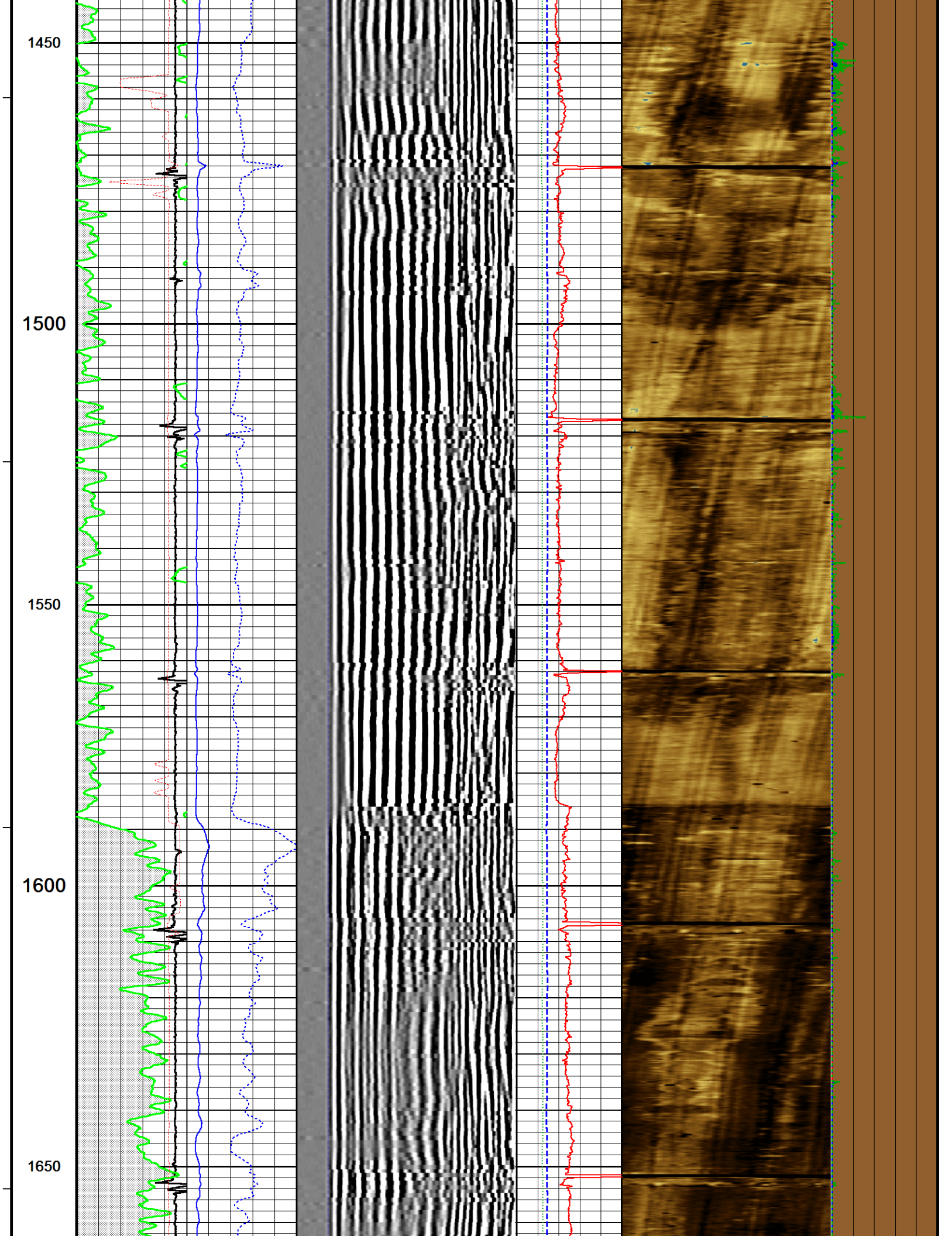
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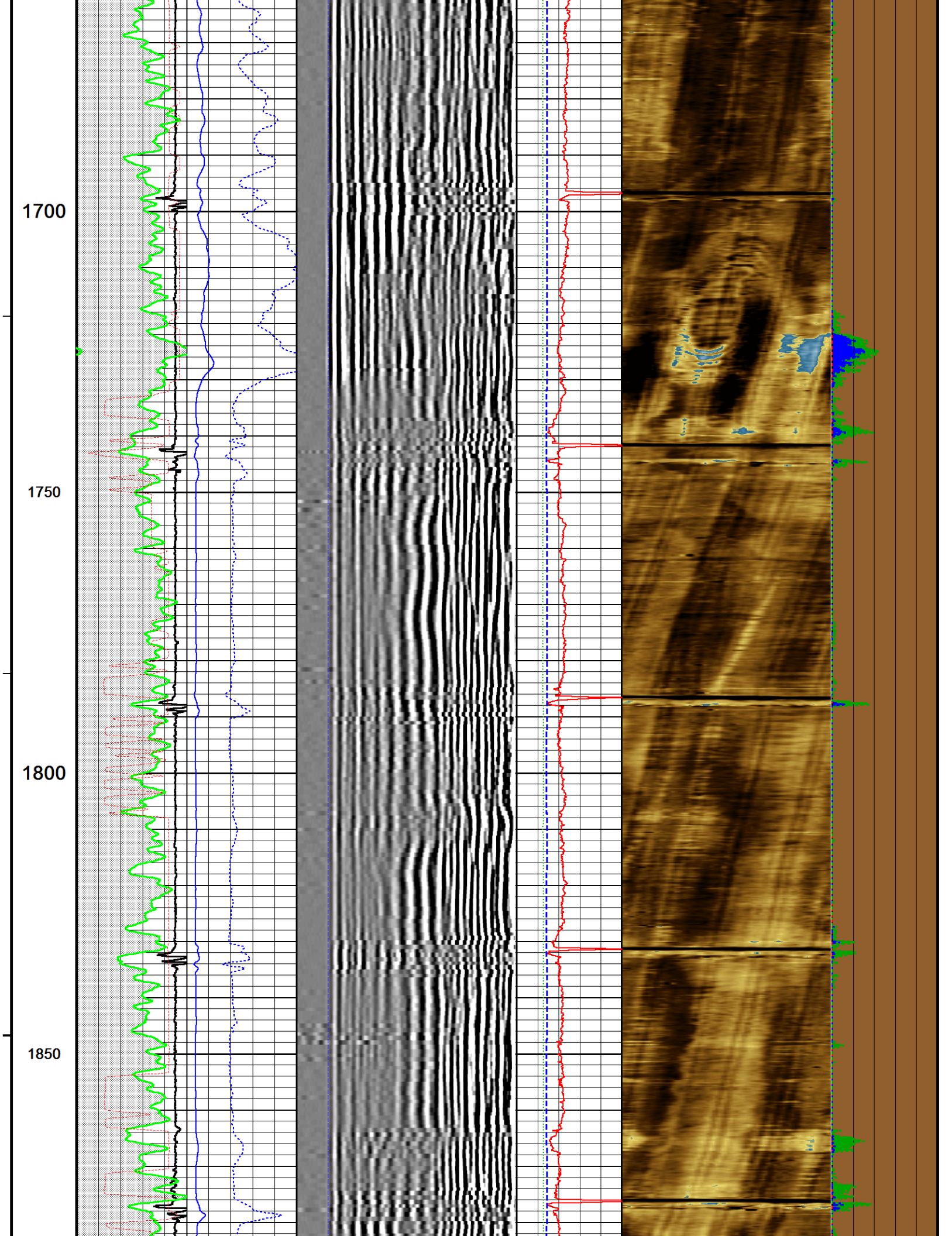


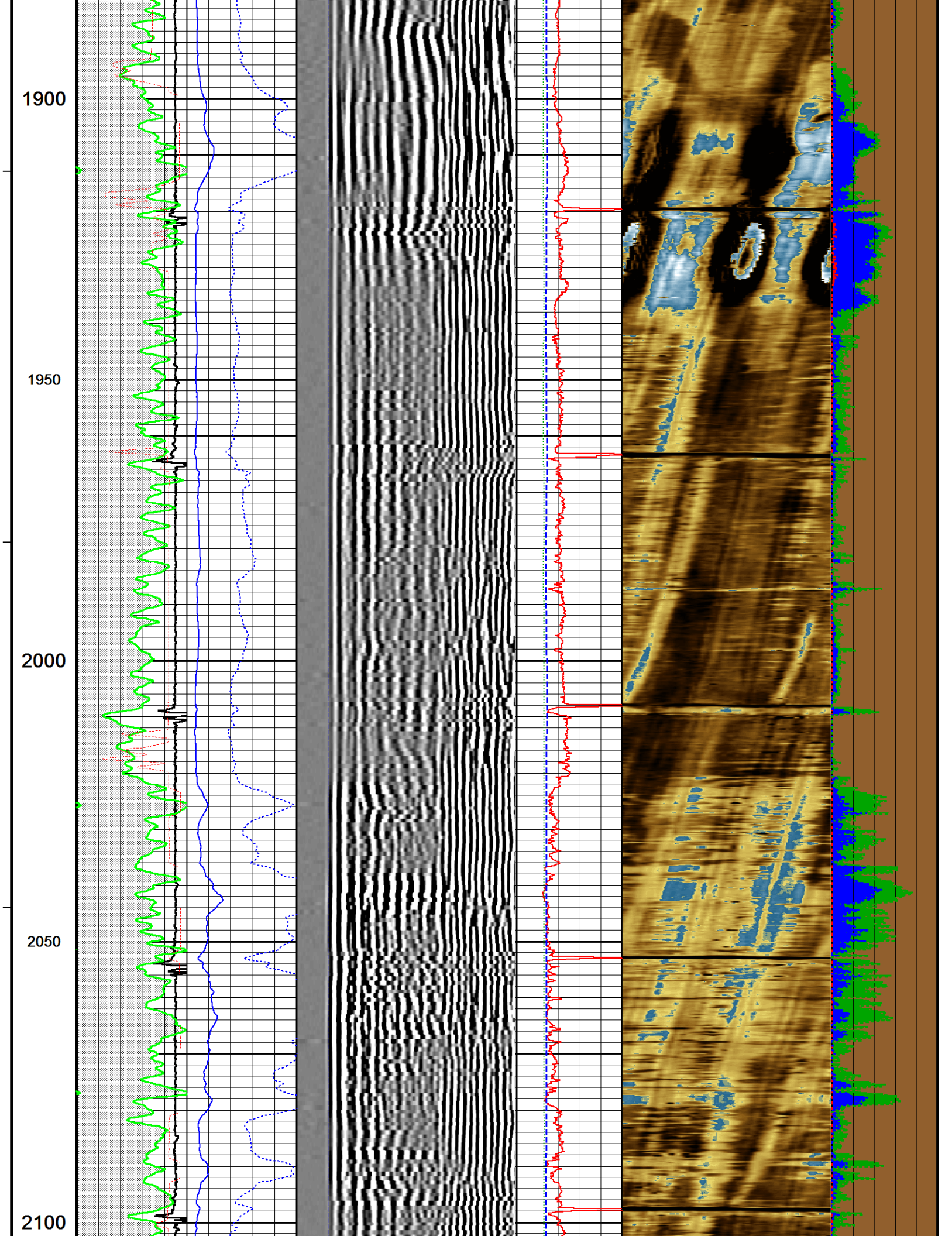


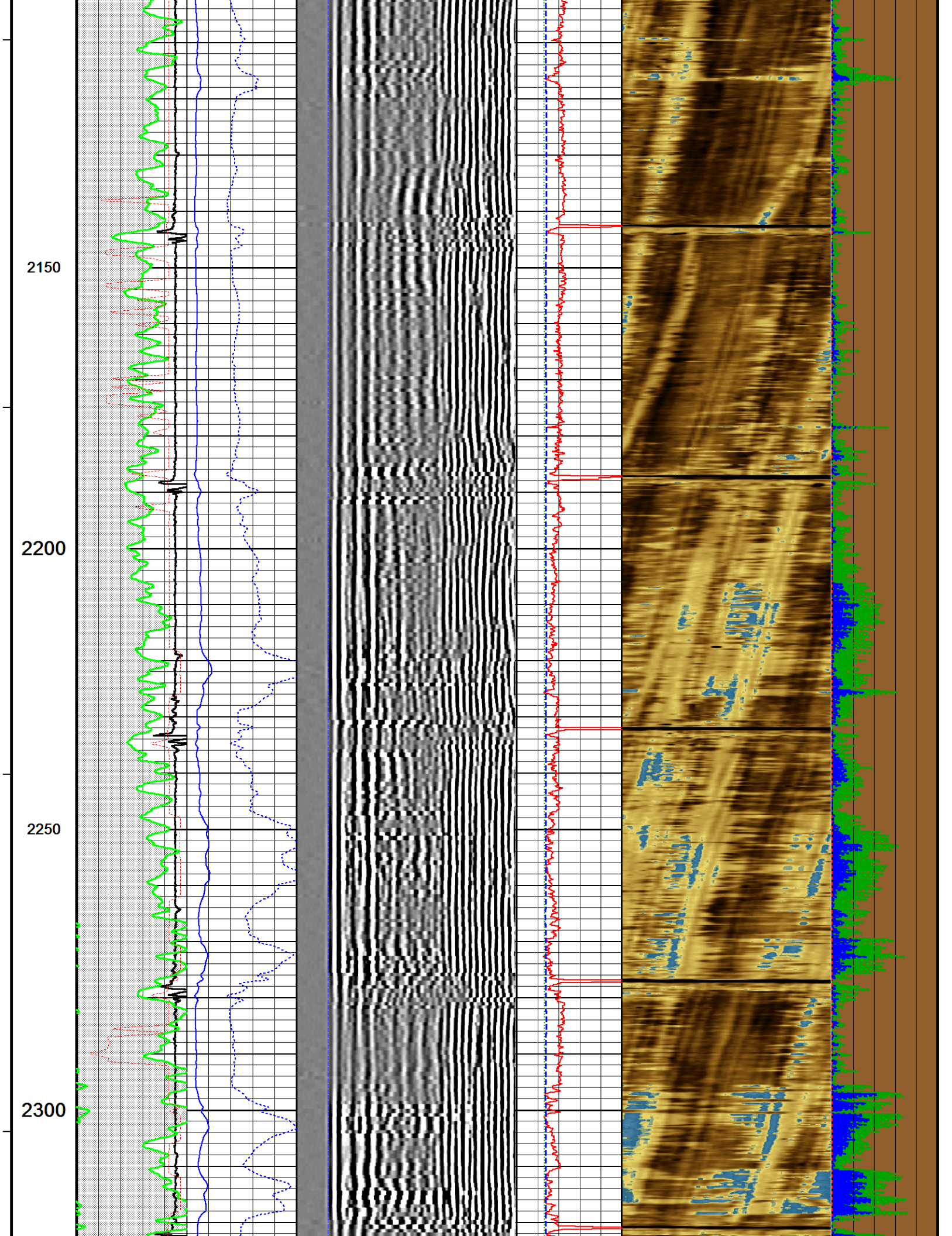


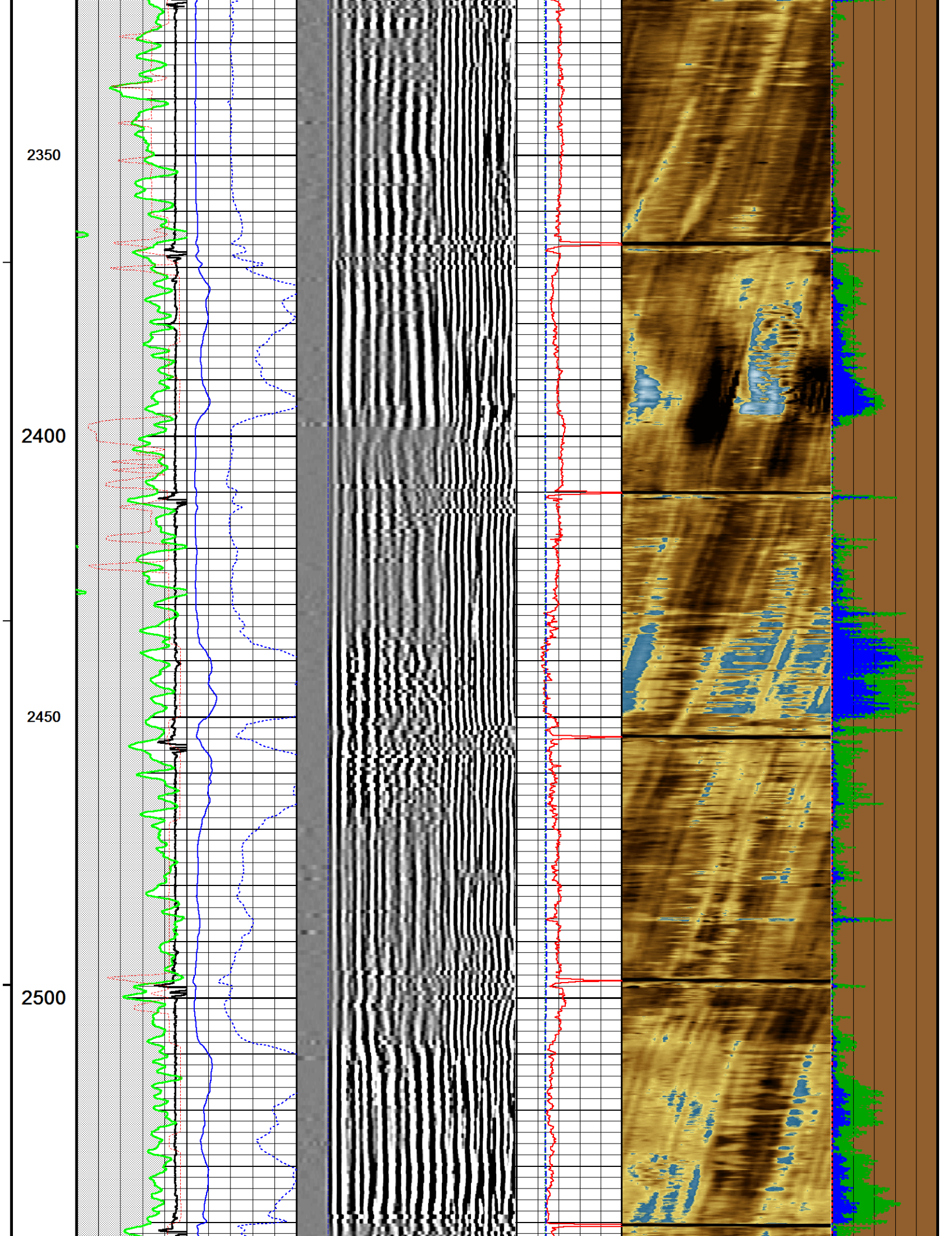


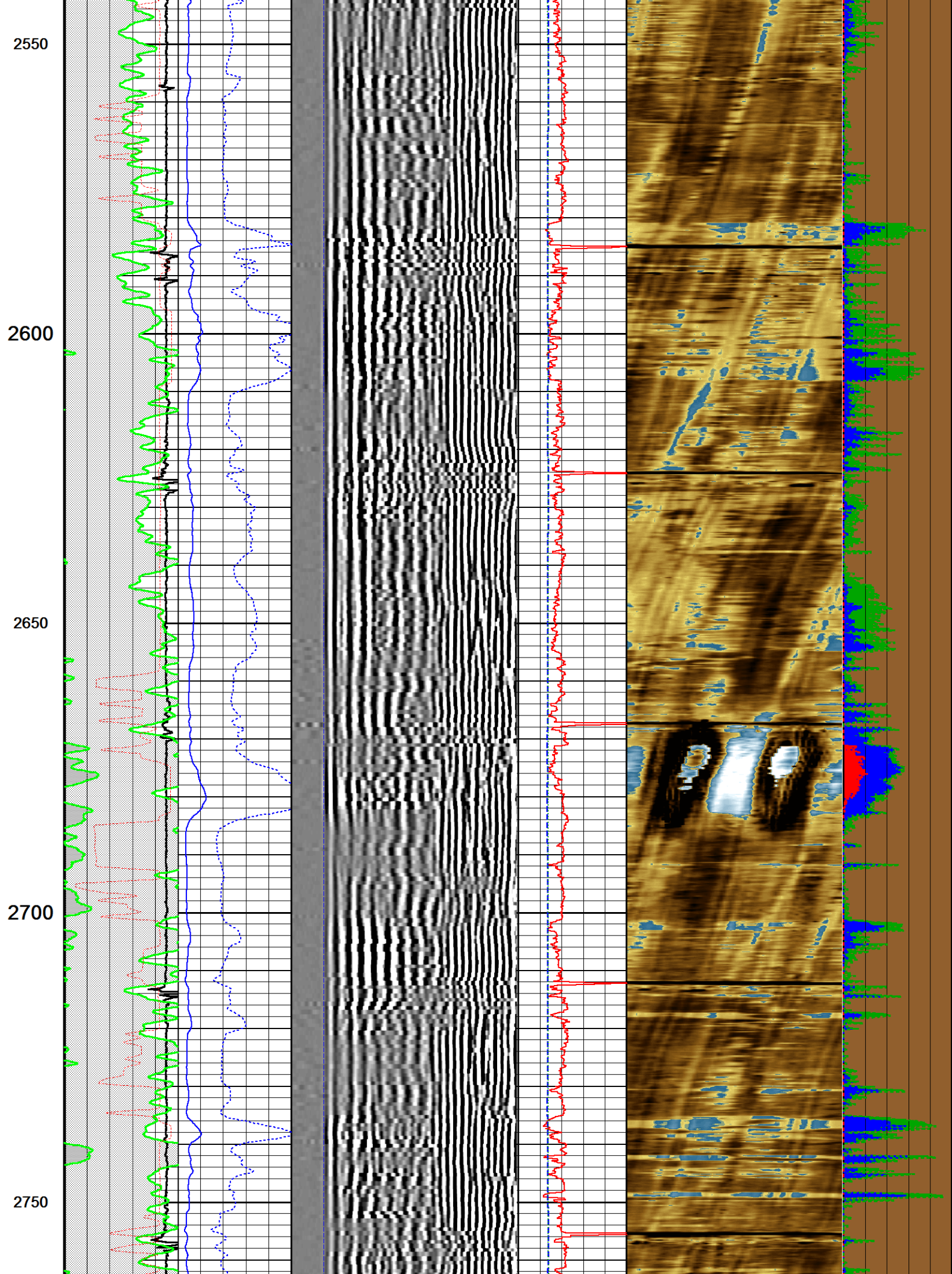










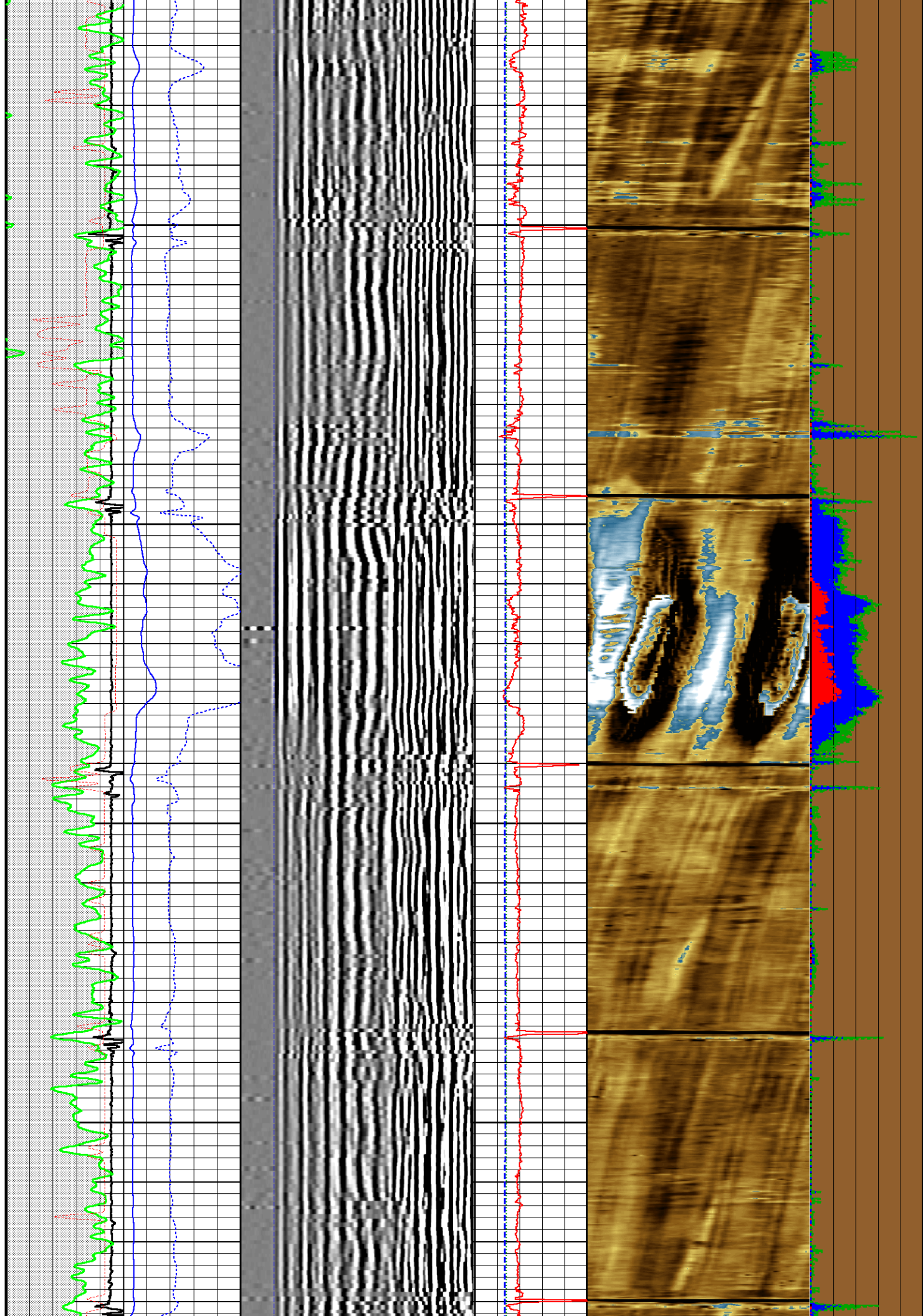


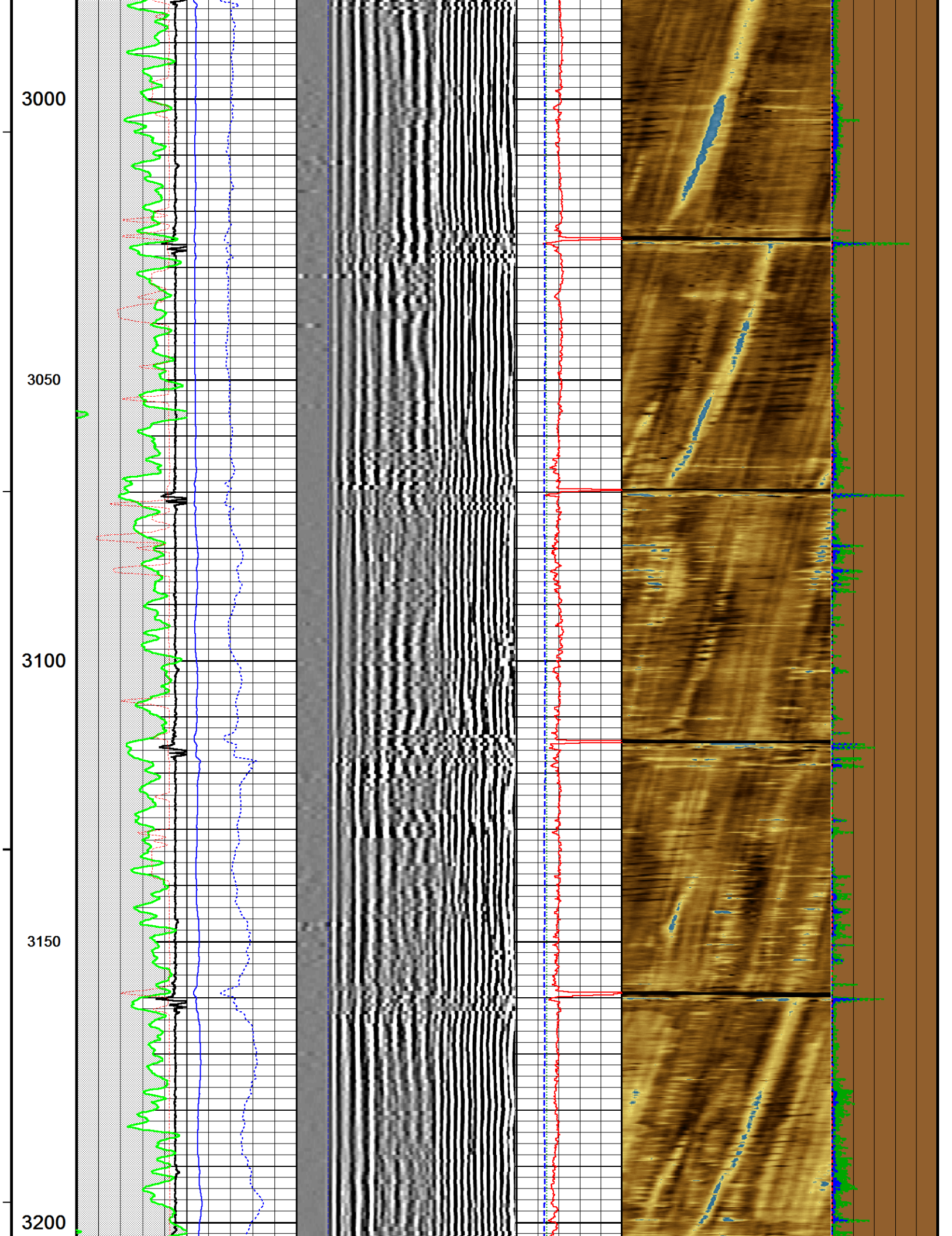
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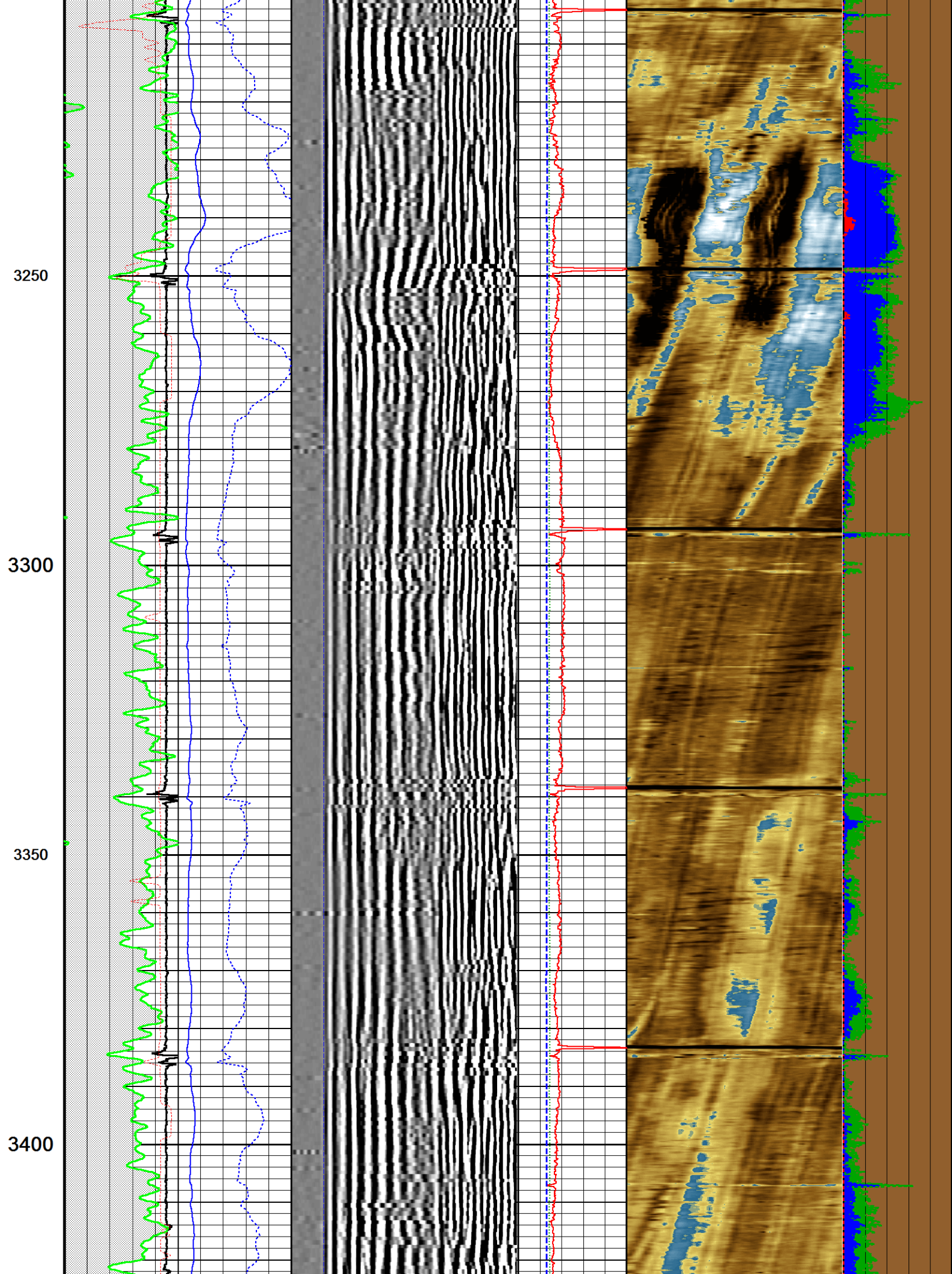
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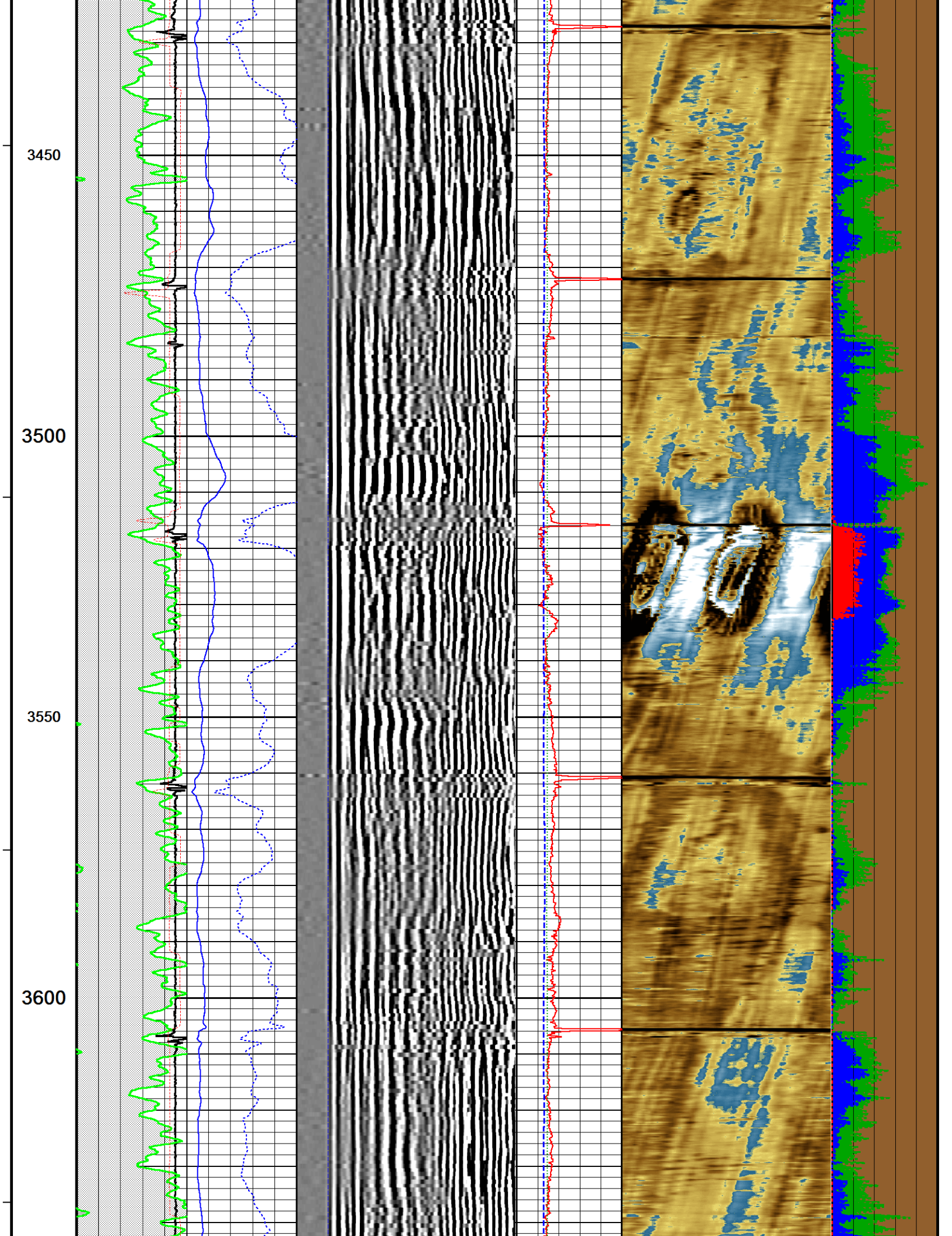
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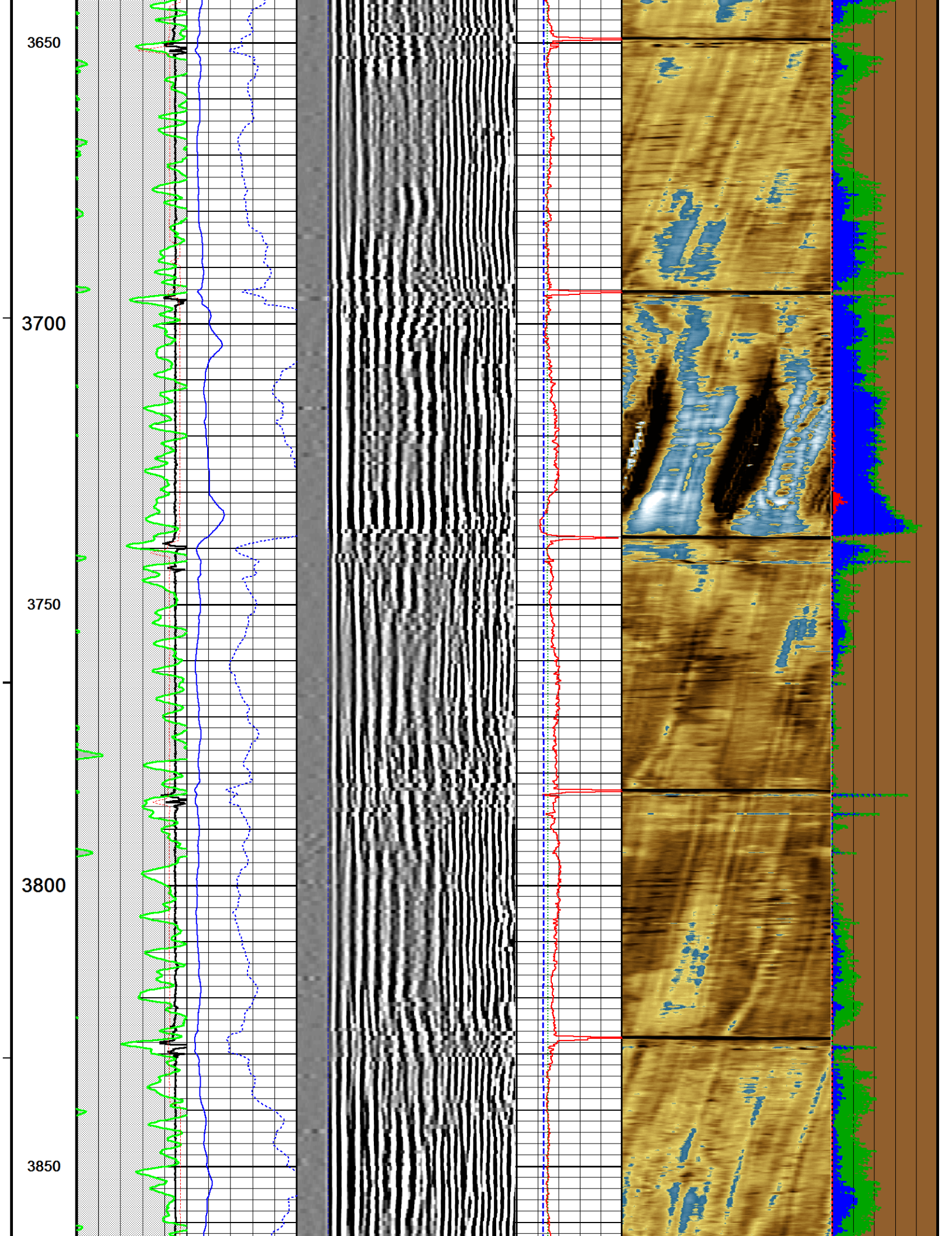
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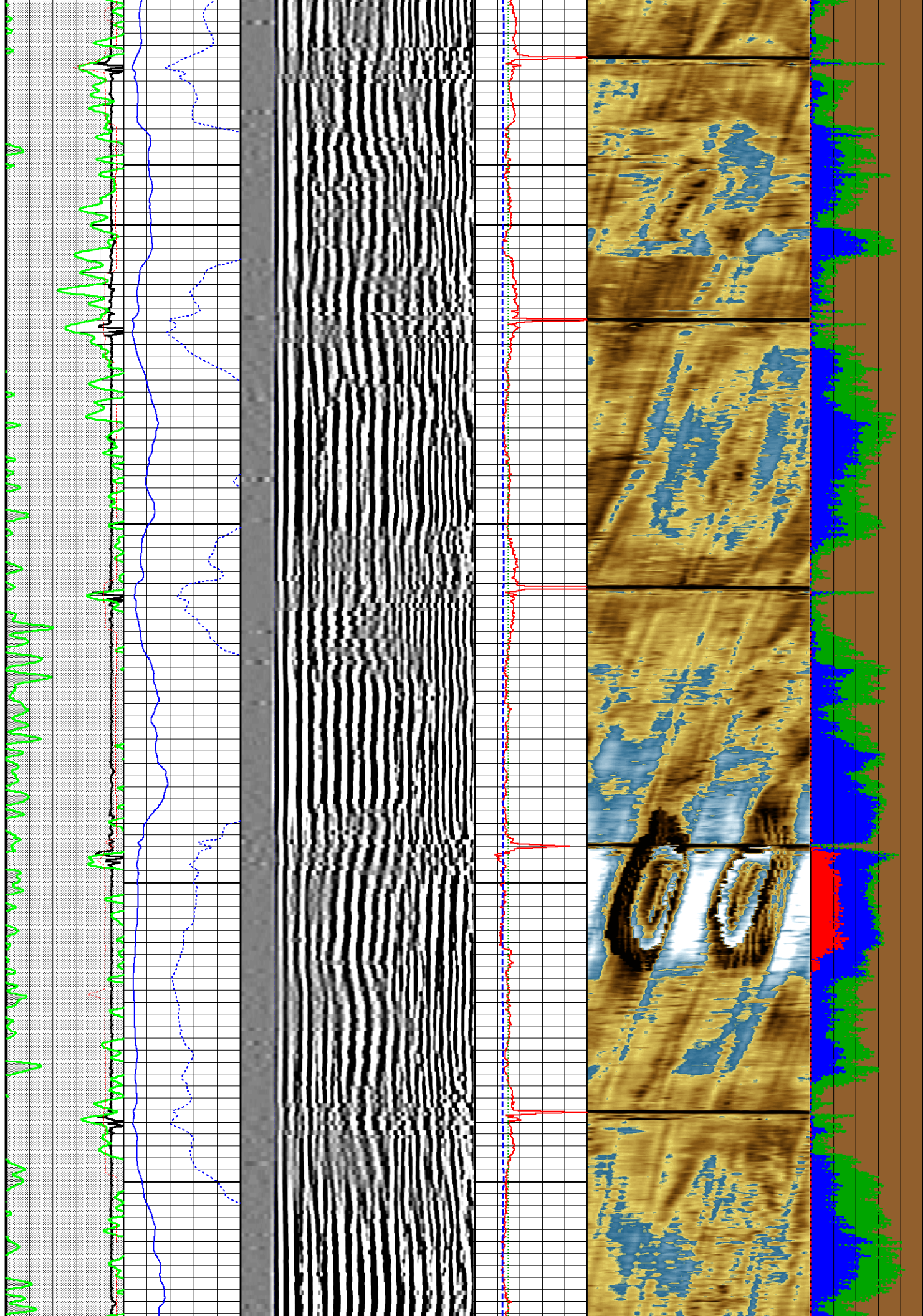


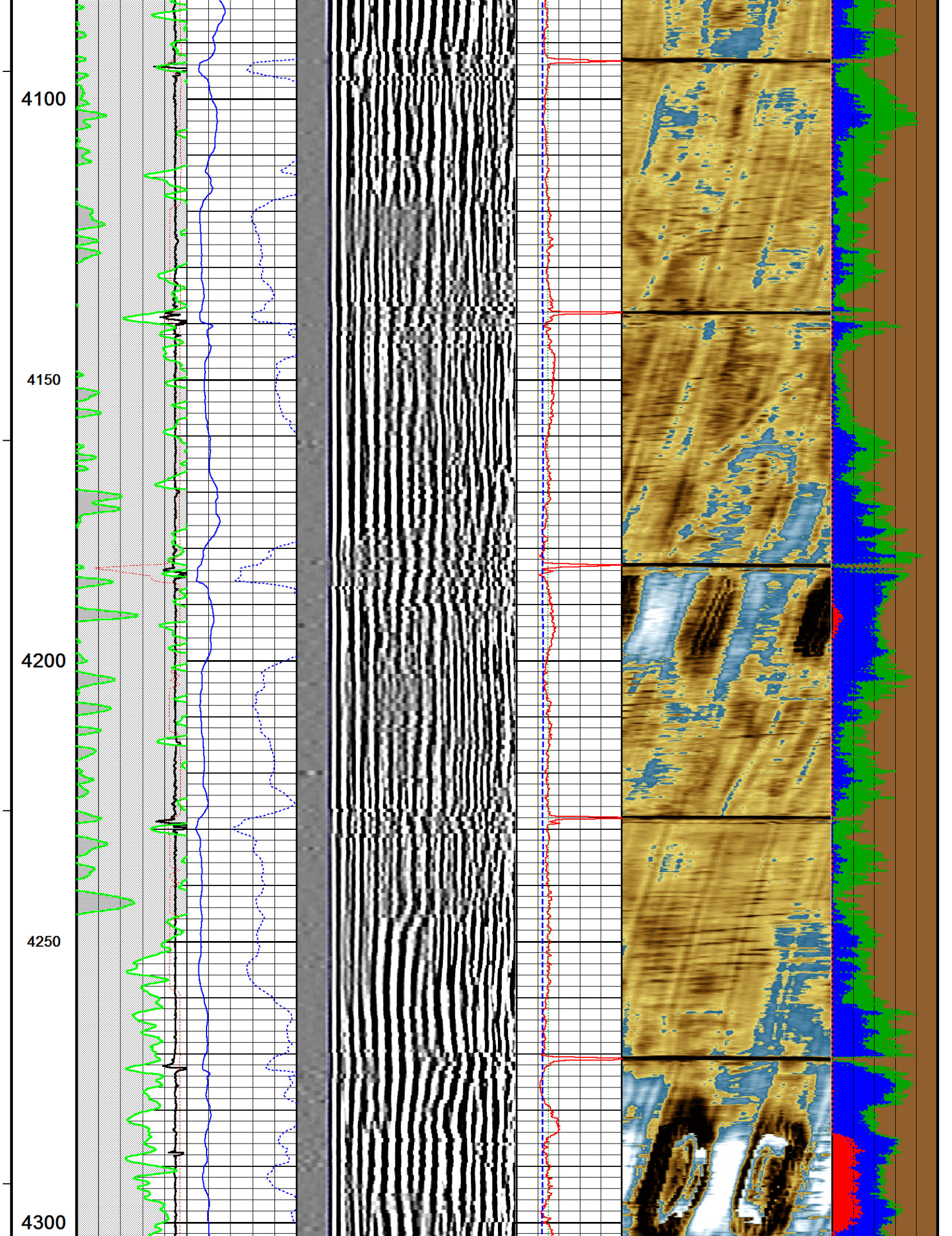
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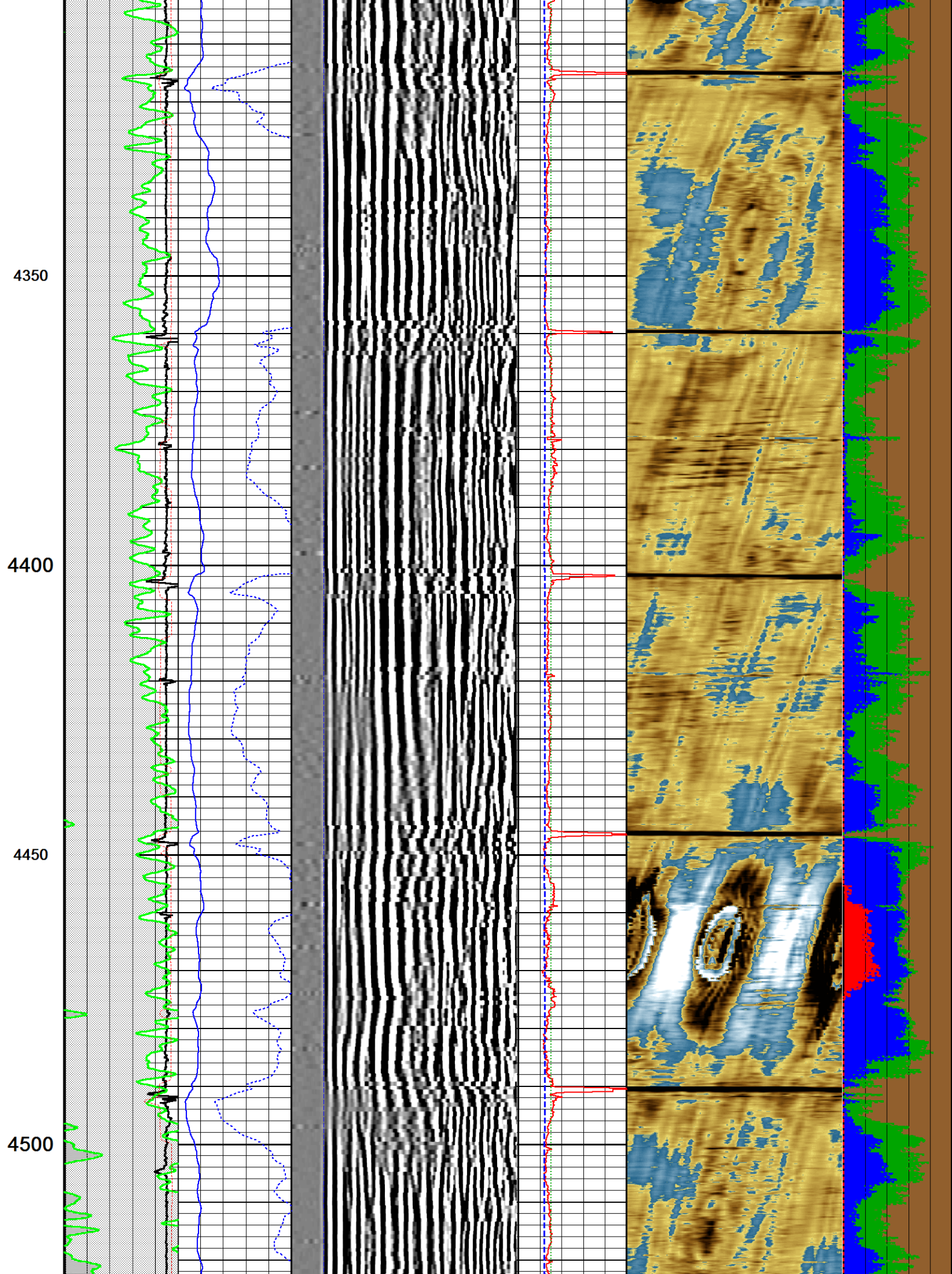
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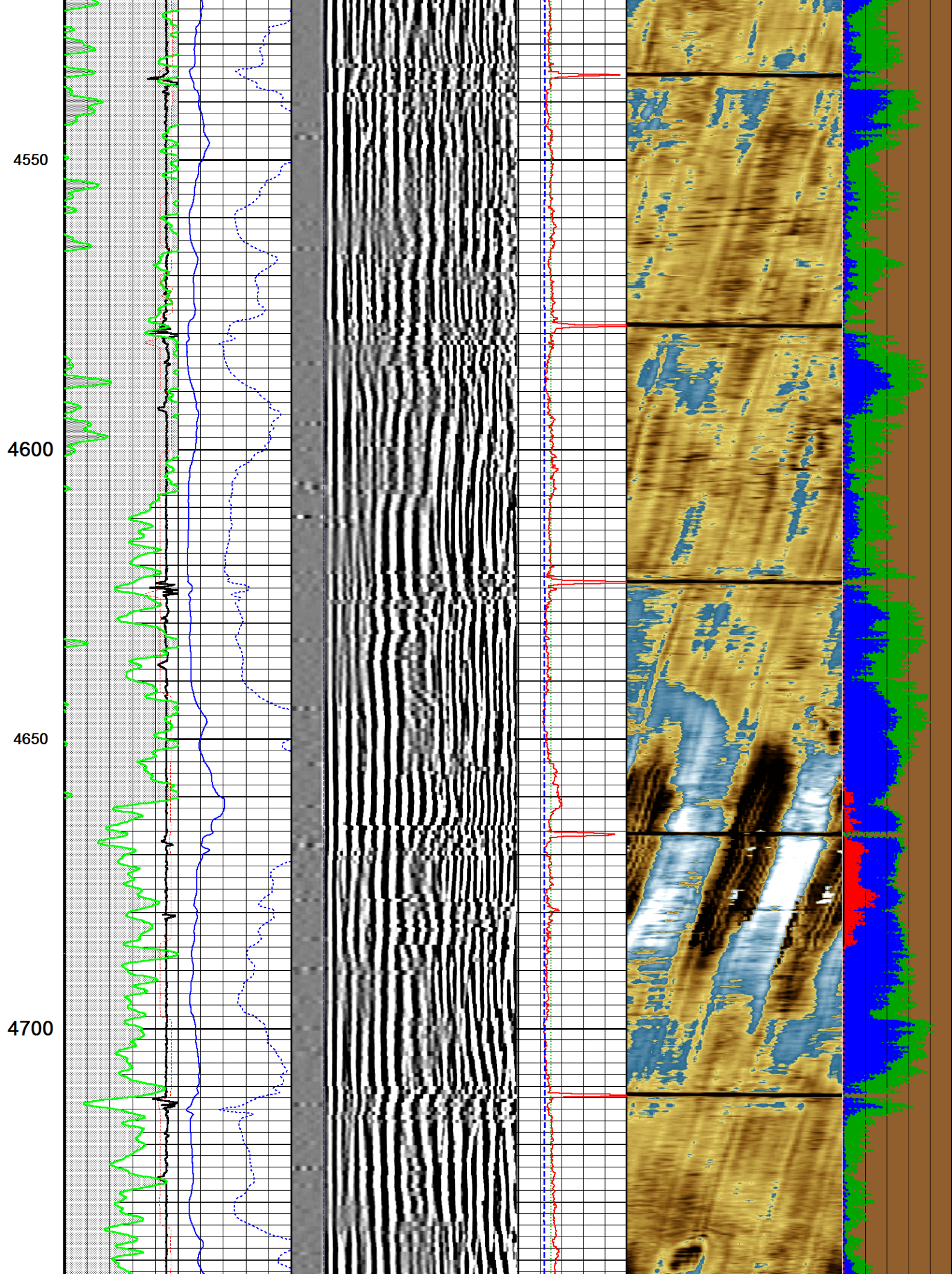
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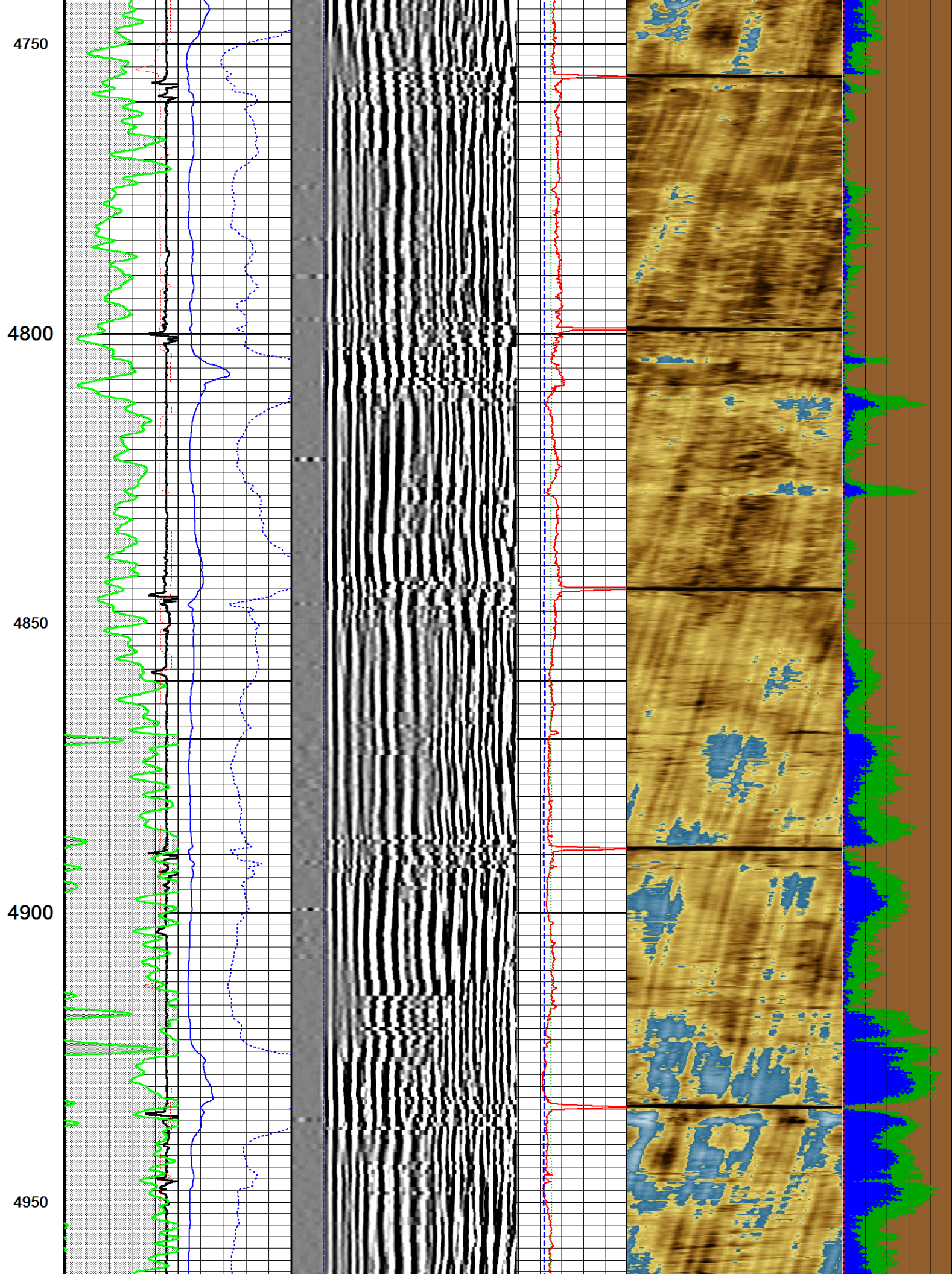
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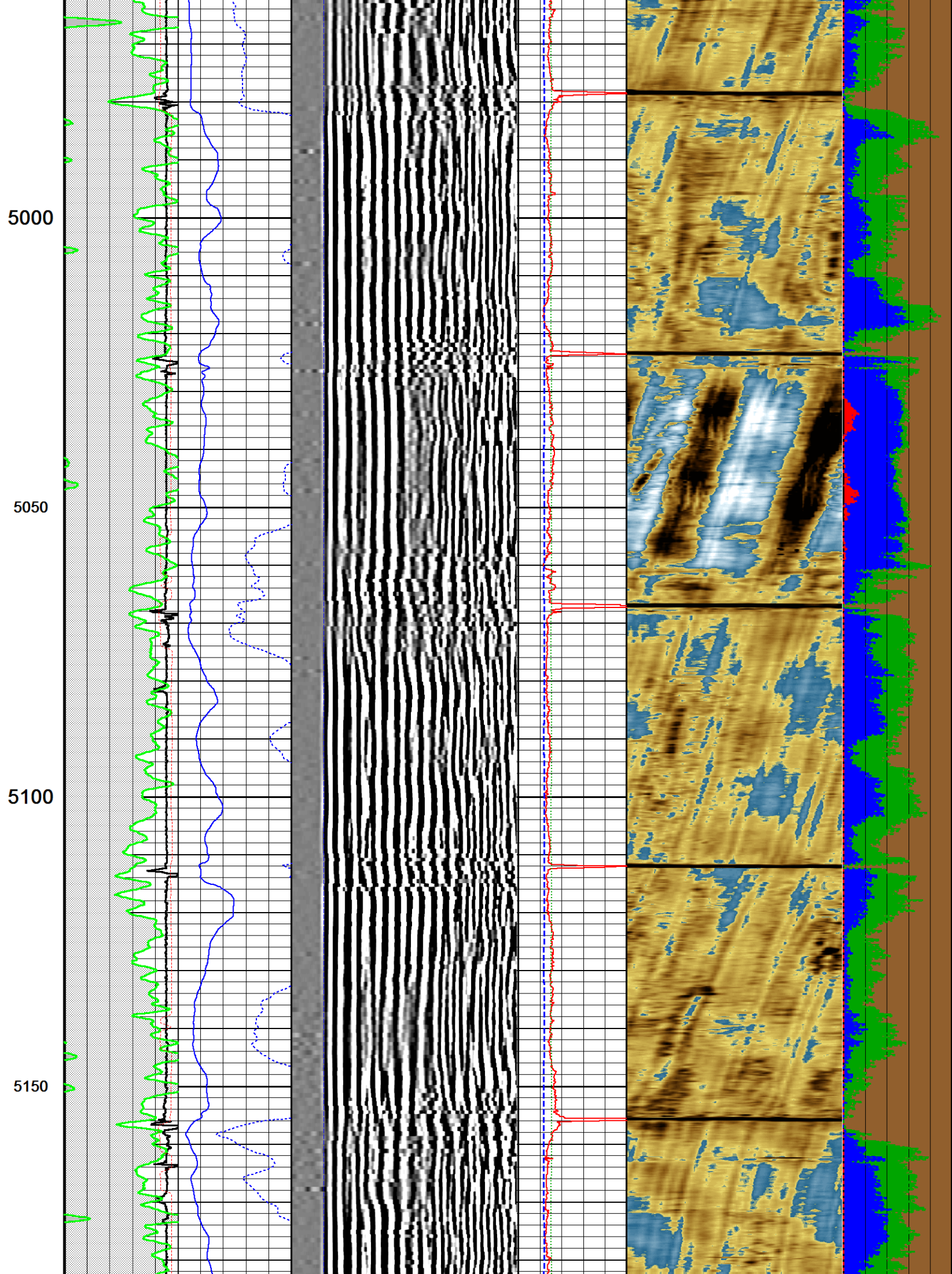


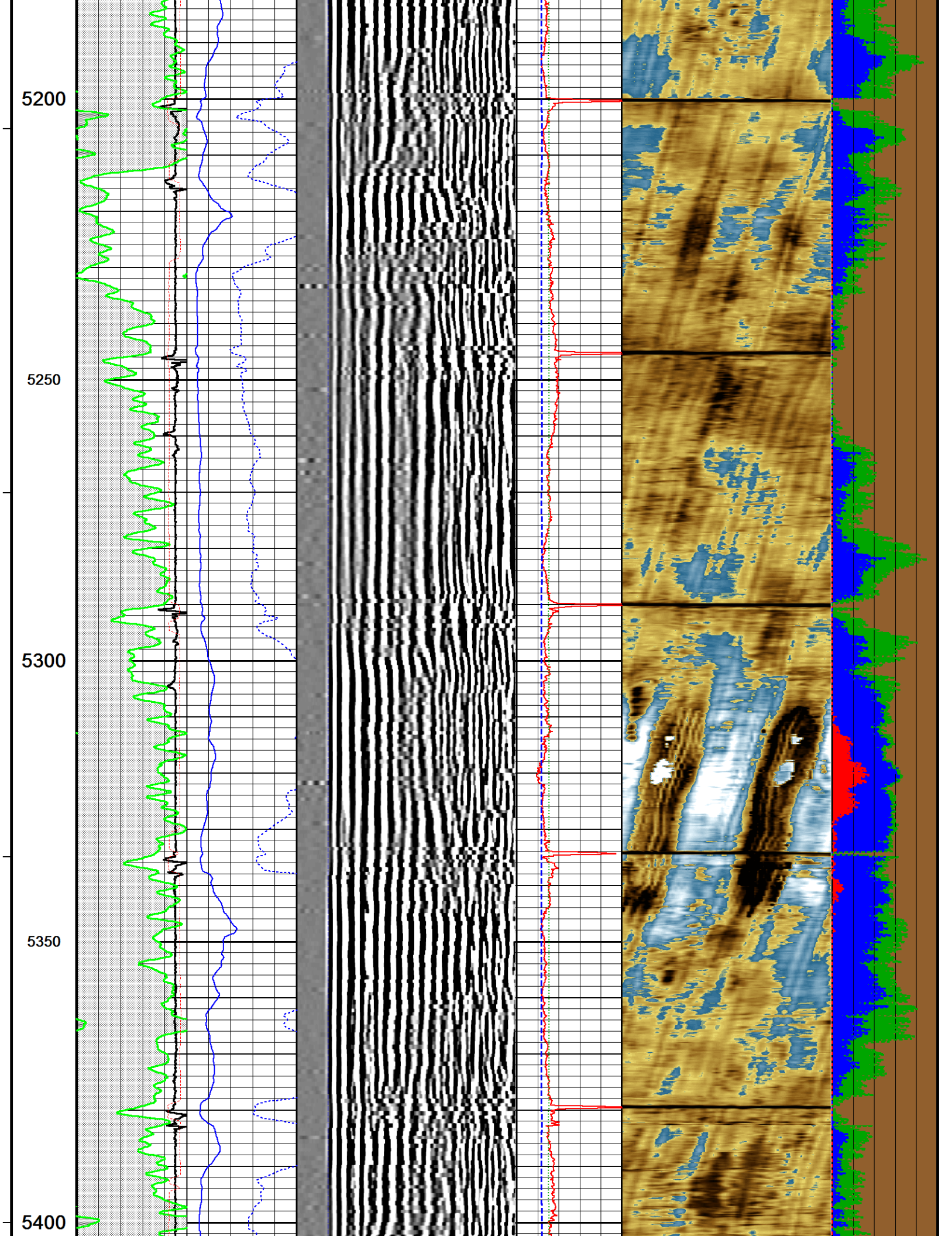


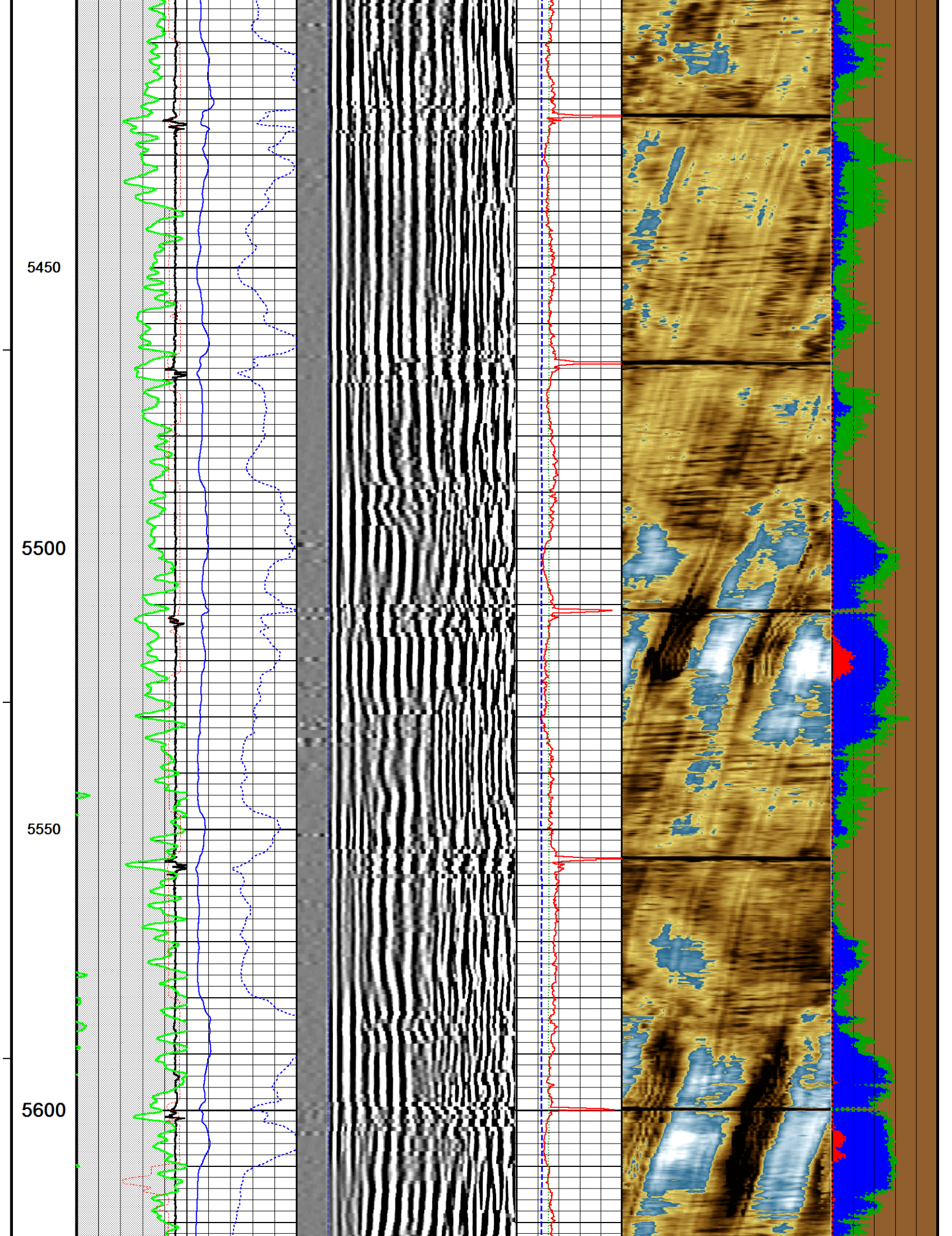


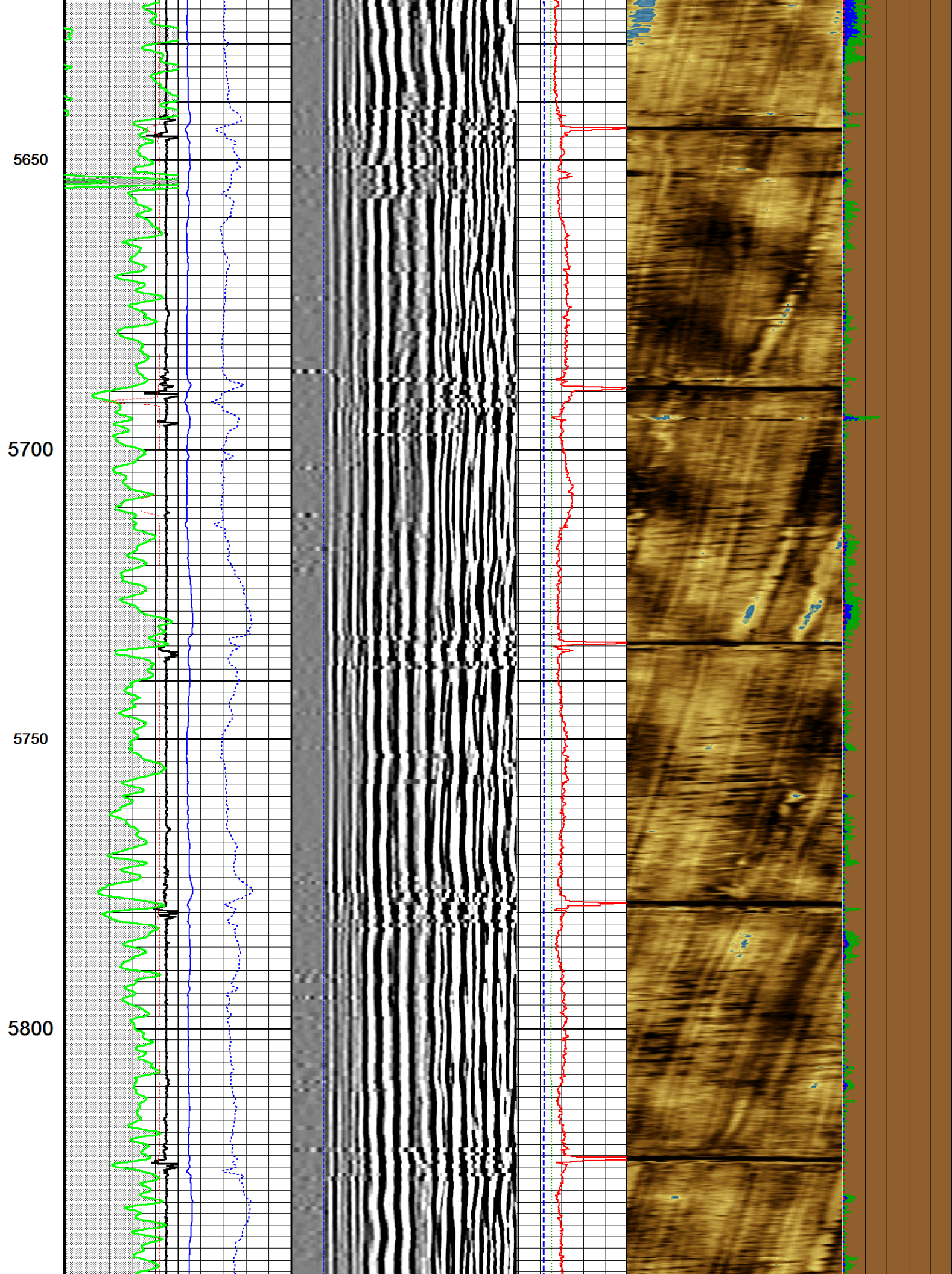


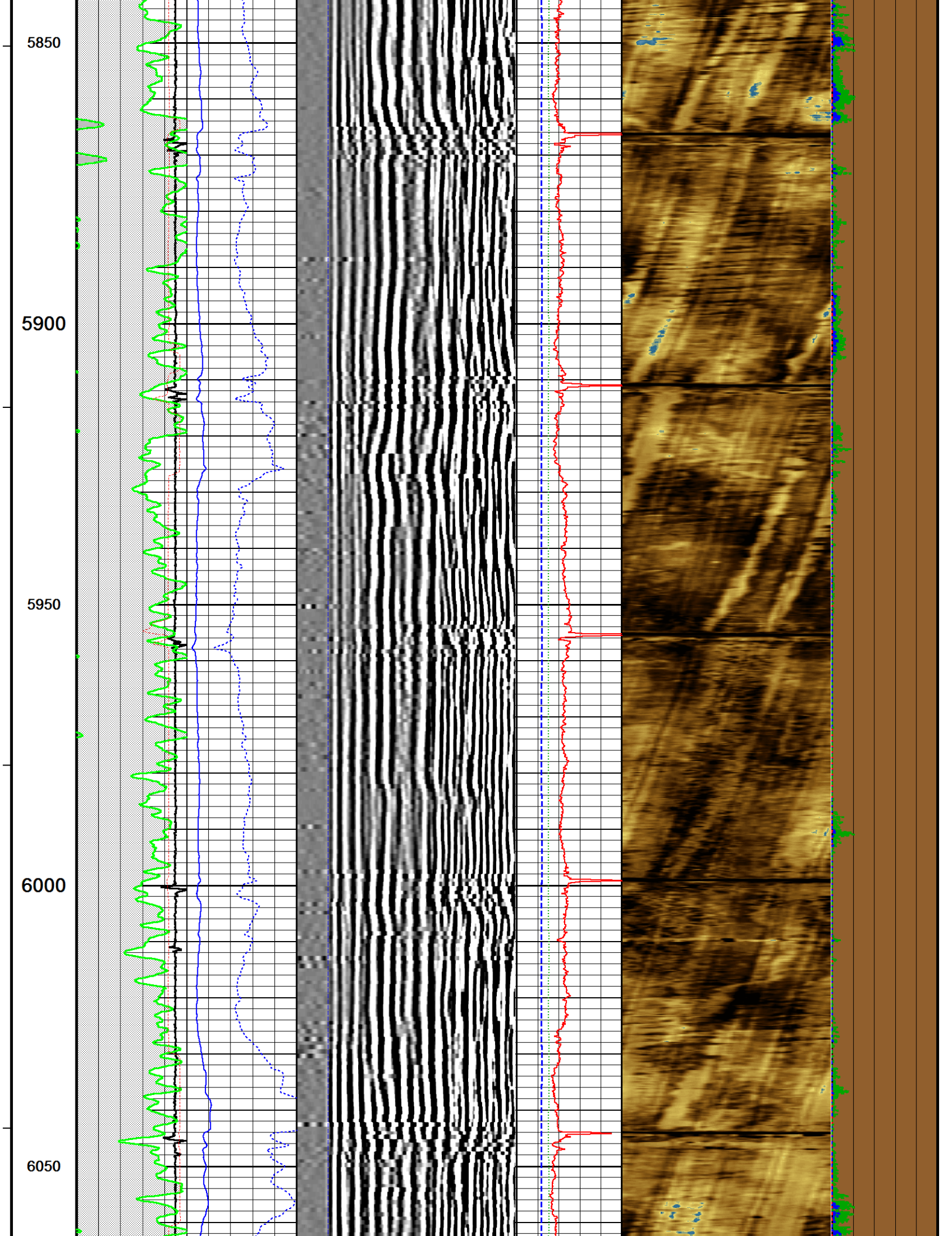










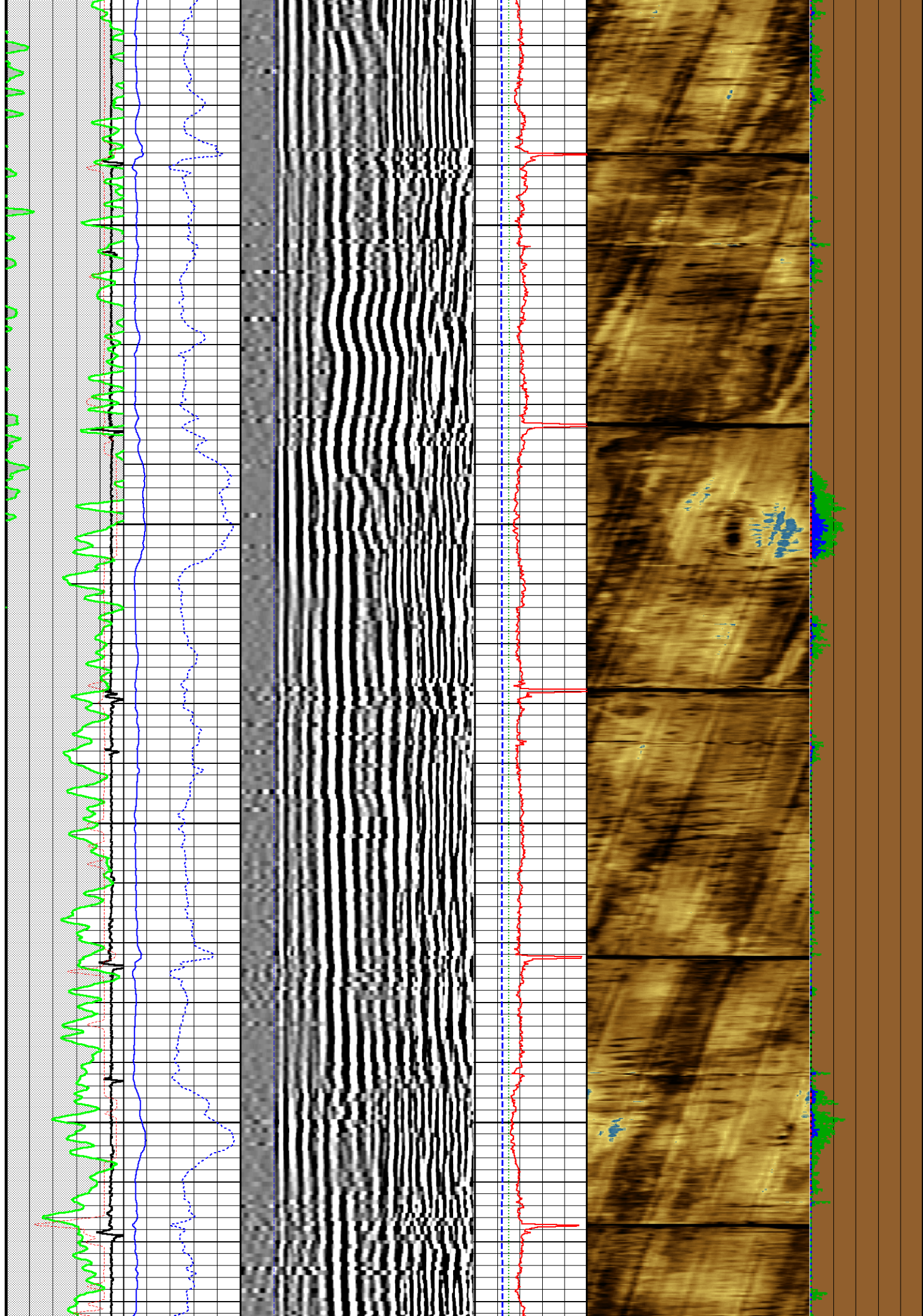


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6150

6200

6250



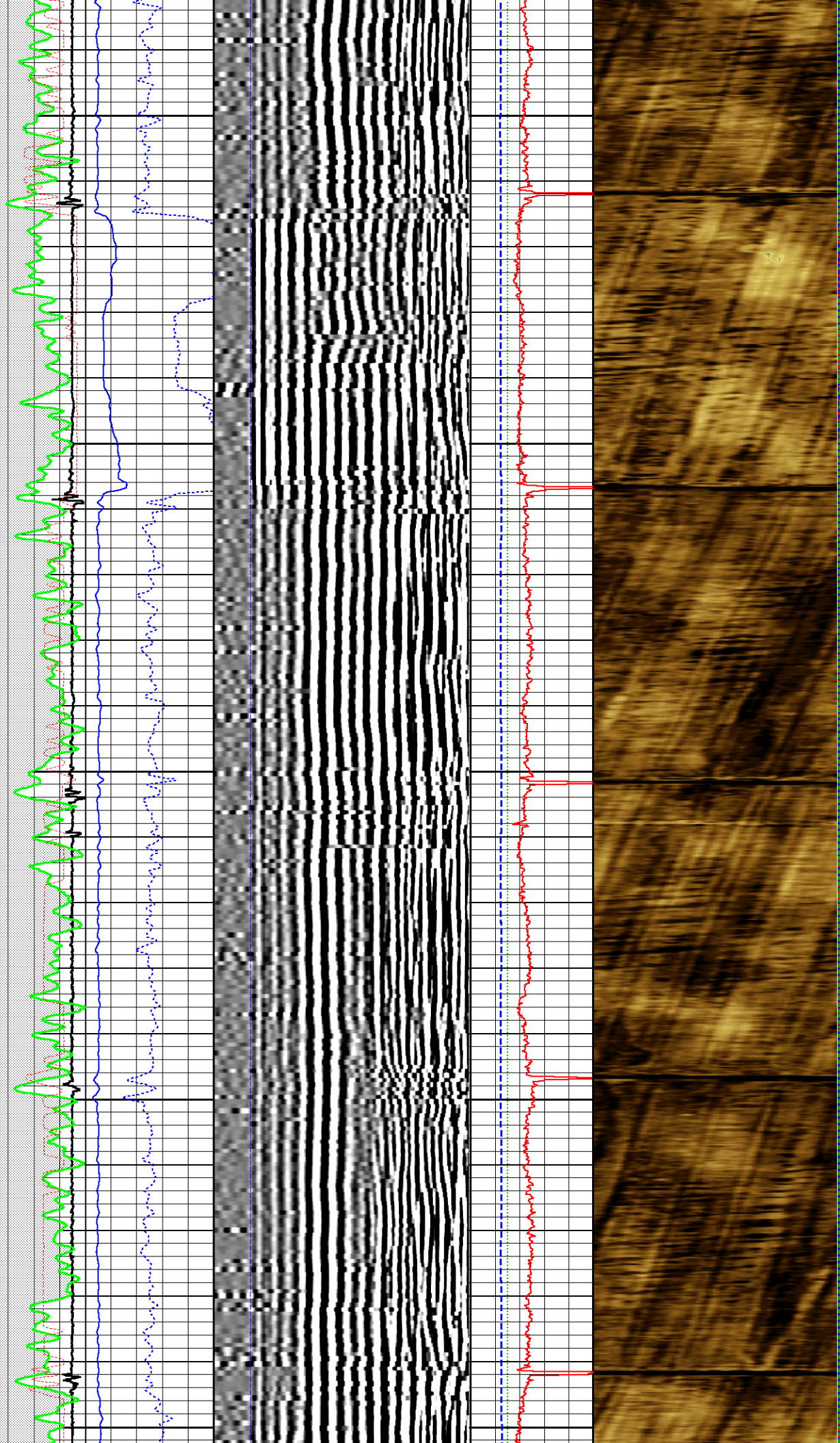
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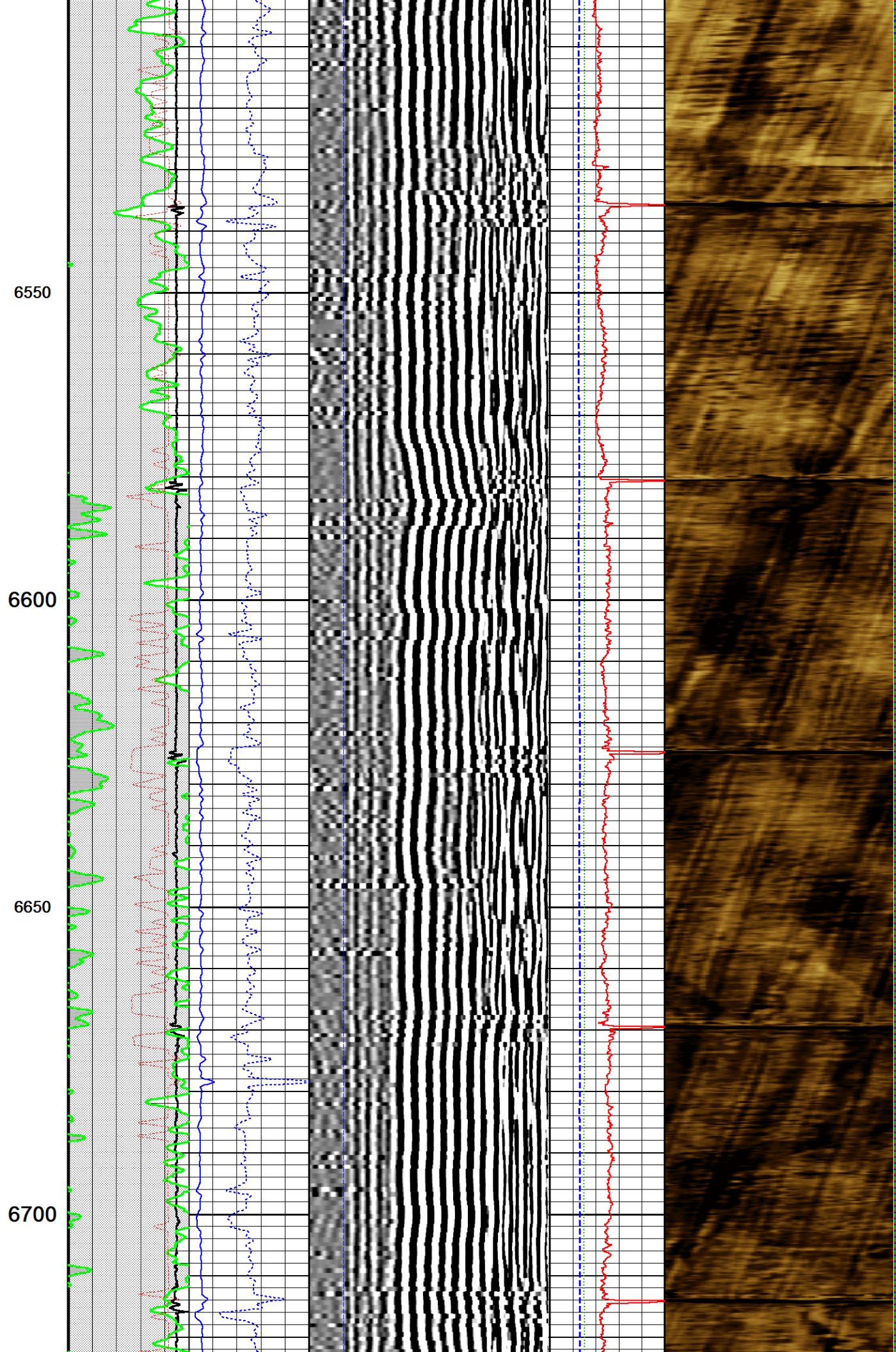
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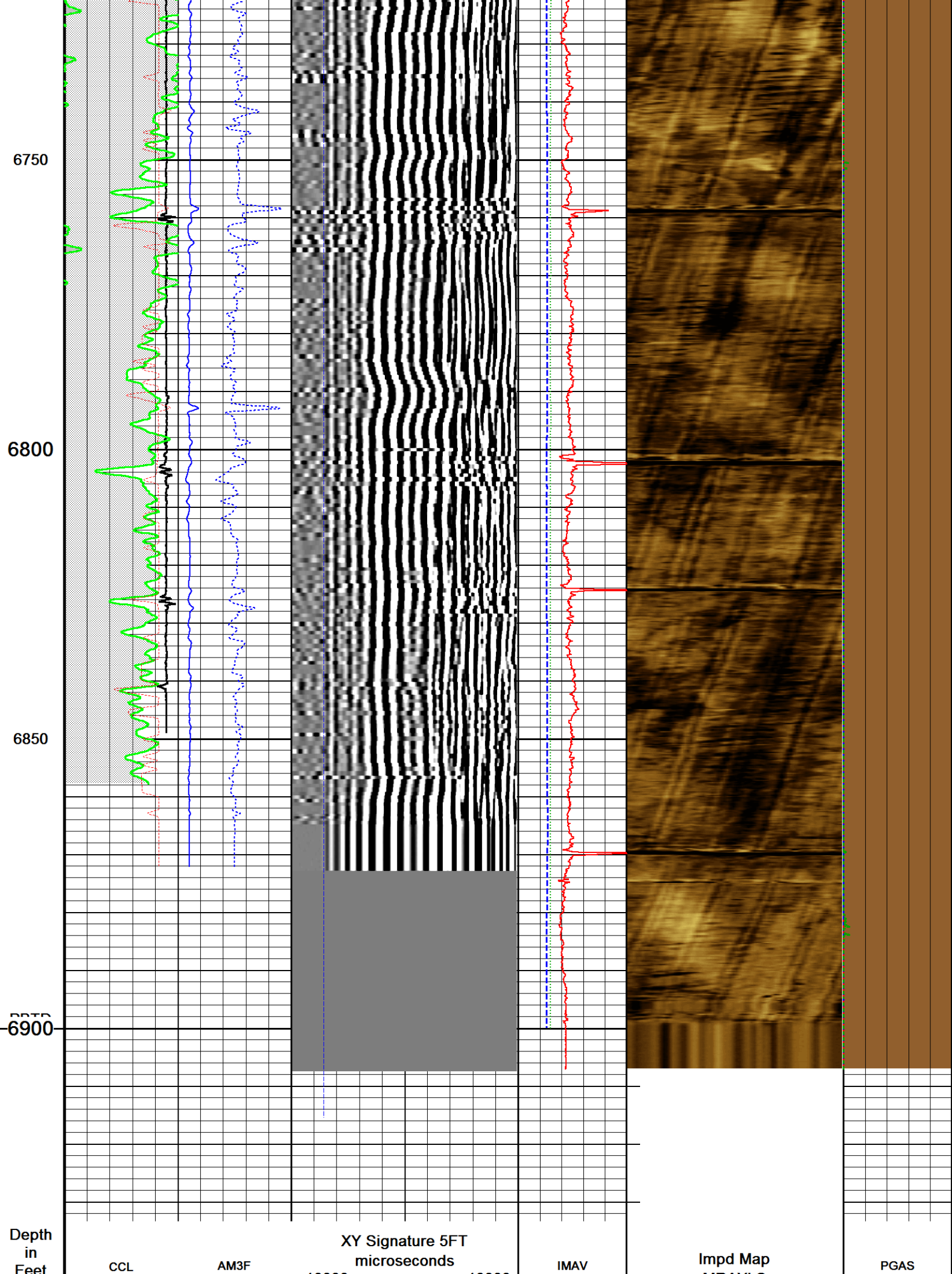
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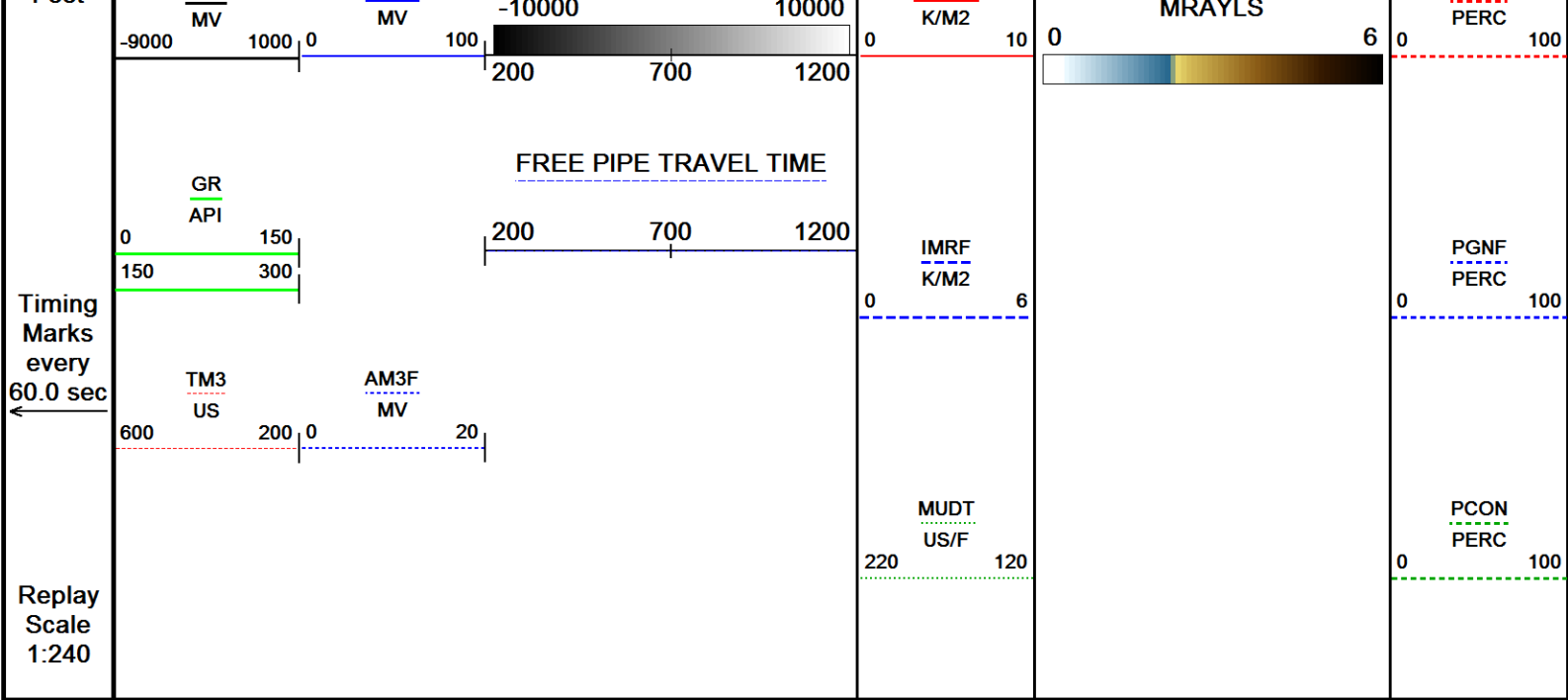
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6500









Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 06-OCT-2017 18:04

Recorded on 06-OCT-2017 12:13

Filename: C:\Logs\Extraction\LEONARD 10N\LEONARD 10N MAIN URS FINAL.dta

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

MAIN PASS 1:240

REPEAT PASS 1:240

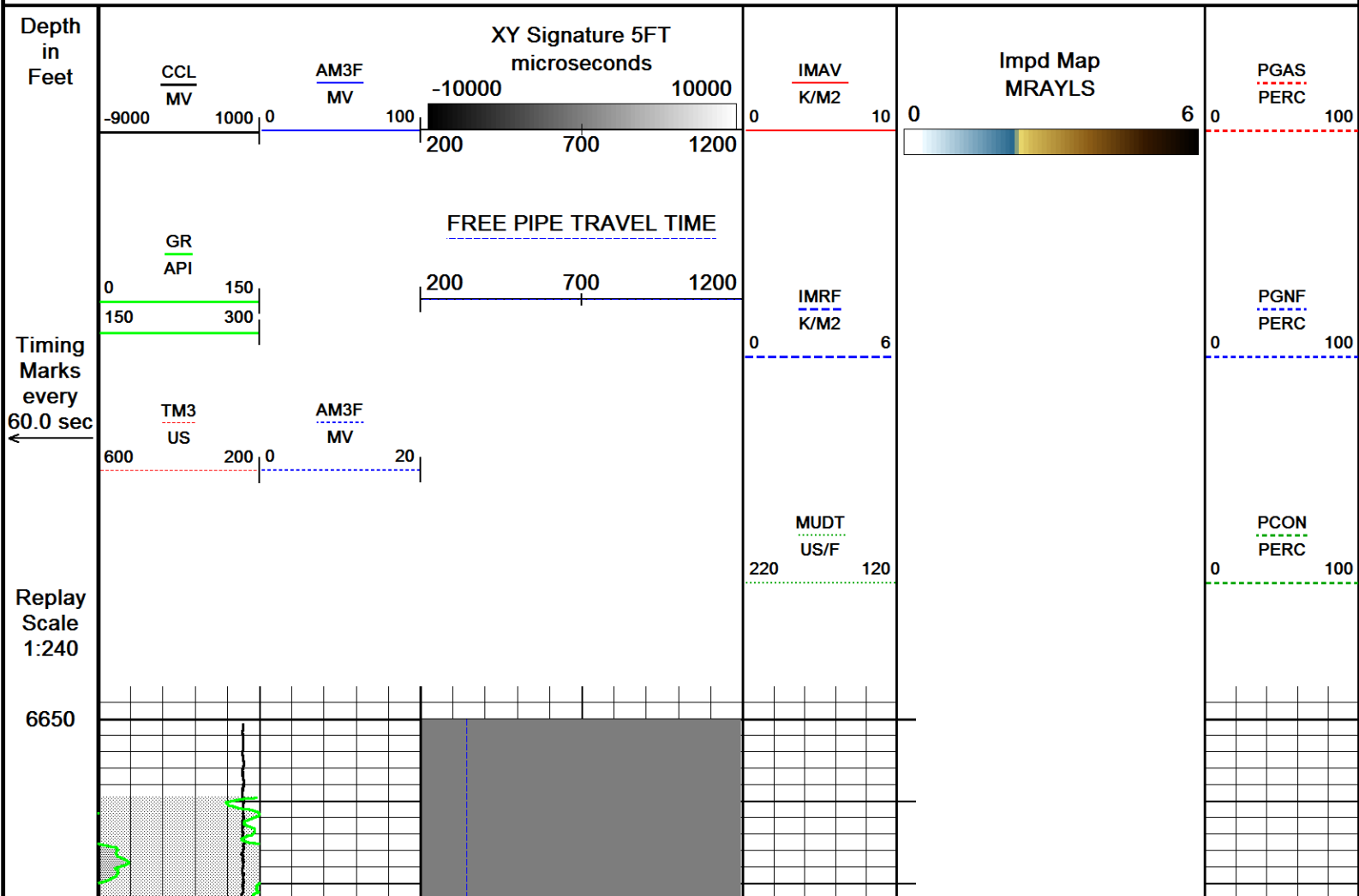
Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 06-OCT-2017 18:04

Recorded on 06-OCT-2017 17:27

Filename: C:\Logs\Extraction\LEONARD 10N\LEONARD 10N REPEAT URS FINAL.dta

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

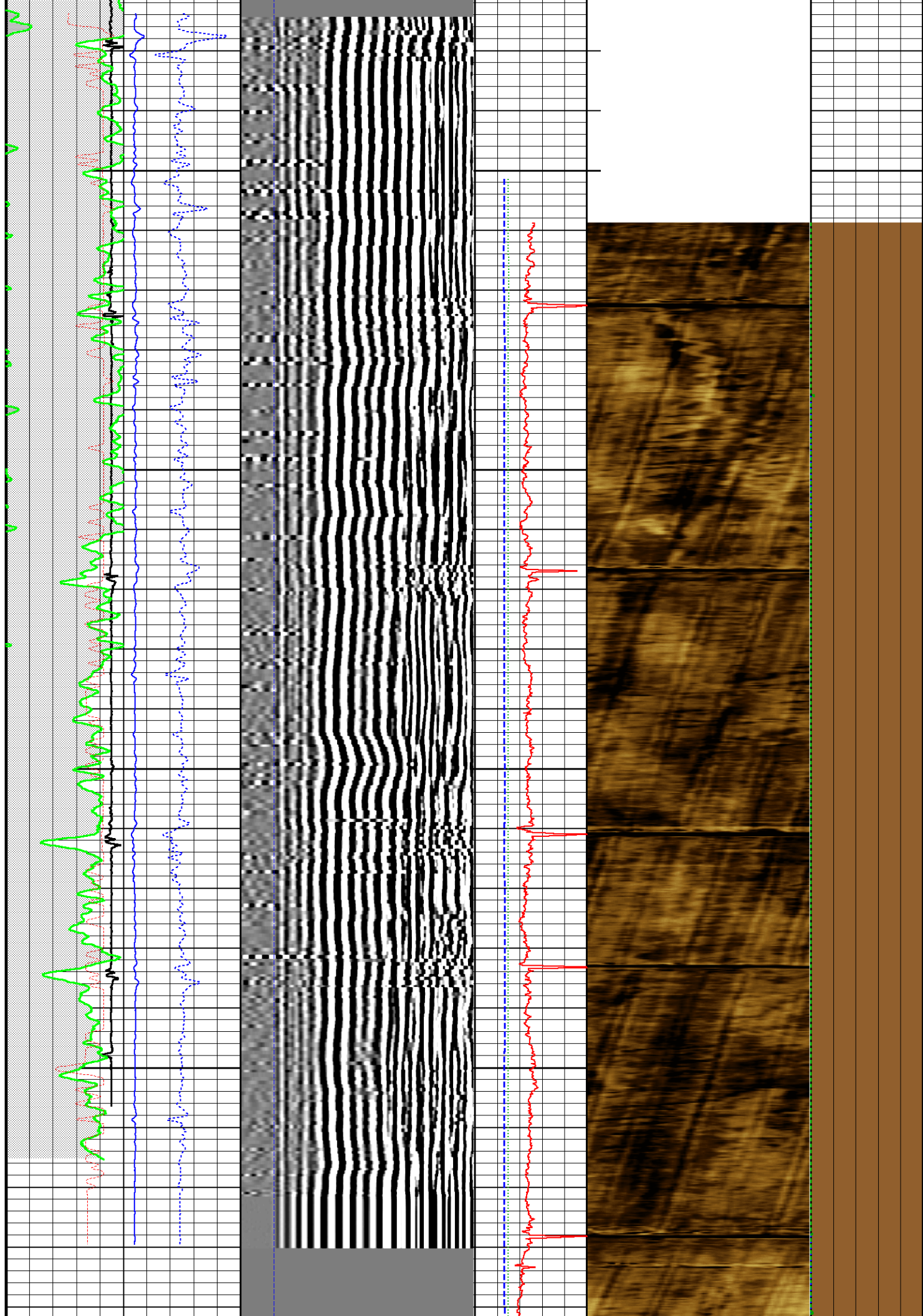


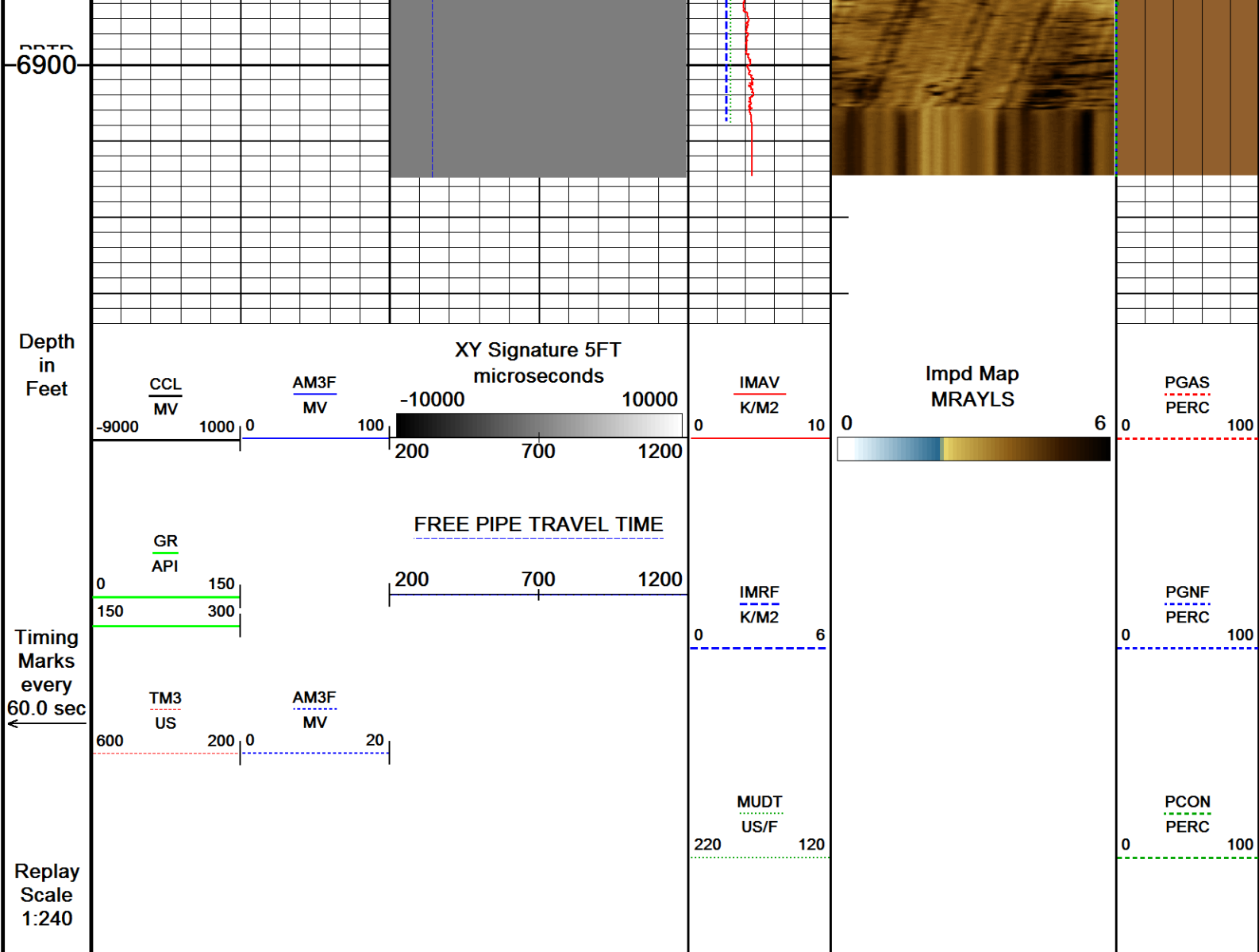
6700

6750

6800

6850





Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Logs\Extraction\LEONARD 10N\LEONARD 10N REPEAT URS FINAL.dta

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

Plotted on 06-OCT-2017 18:04

Recorded on 06-OCT-2017 17:27

↑ REPEAT PASS 1:240 ↑

SHOP AND FIELD CALIBRATIONS

C:\Logs\Extraction\LEONARD 10N\LEONARD 10N MAIN URS FINAL.dta

UGR Field Survey cal UGR-JD 118

Field calibration on 00-JAN-1988 00:00

Gamma Ray Field Survey Calibration

Tool Type: UGR-JD Serial No: 118

calibrator No:

Background	calibrator	standard	Units
0.0	140.0	140.0	CPS

Delta Counts Per Sec: 140.0 CPS/API = 1.000

CBT Field Calibration CBT-AA 109

Field calibration on 17-JAN-2017 08:33

Cement Bond Tool Amplitude Field Calibration

Tool Type	CBT-AA	Serial No	109
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Free Pipe Depth

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	2.10	0.00
	Free Pipe	62.00	752.50
AMP 5 FT	100 % Bond	1.40	0.00
	Free Pipe	41.00	735.40

CBT Constants CBT-AA 109

Last Edited on 06-OCT-2017 12:13

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

Ultrasonic Radar Scanner Before Call USH-AB 136

Field Calibration on 00-JAN-1988 00:00

Ultrasonic Radial Scanner Before Calibration

Tool Type USH-AB Serial No 136

	Measured	Minimum	Maximum	
Free Pipe	-999.250	0.000	0.000	K/M2
Mud Impedance	1.500	0.000	0.000	K/M2

URS Constants USH-AB 136

Last Edited on 06-OCT-2017 12:13

*** well information ***

**** NOTE ****

If ``Use General Settings`` is set to ``OFF``, the ``ZHead Cal`` and ``ZMud Cal`` values will be obtained from ``Depth Specific Settings`` entry

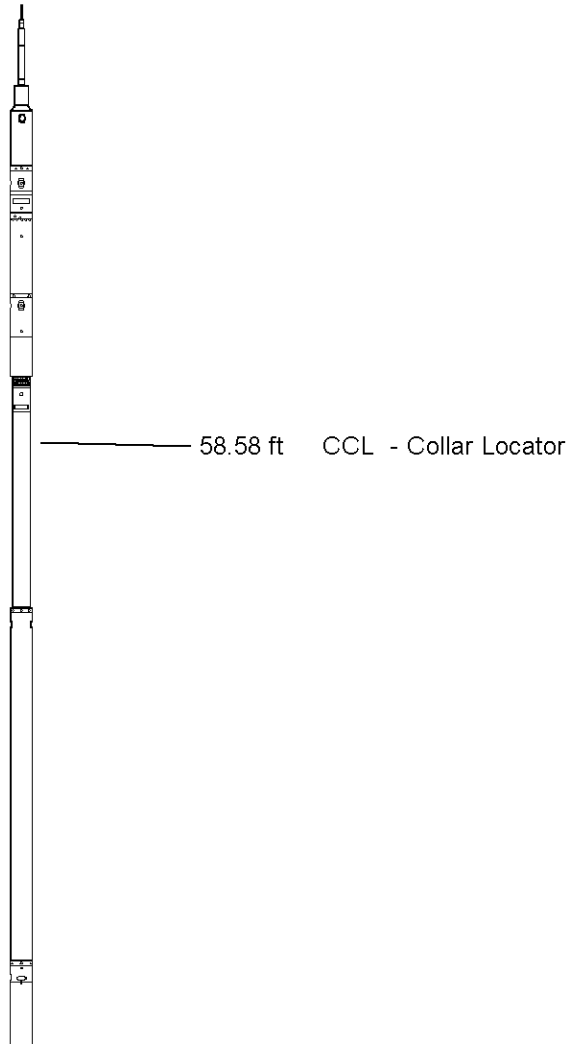
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** General Settings **

```

Use General Settings	ON
ZHead Cal Area Ratio	4.30
ZMud Cal Area Ratio	4.00

**** Depth Specific Settings ****



50.49 ft GR - Gamma Ray

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

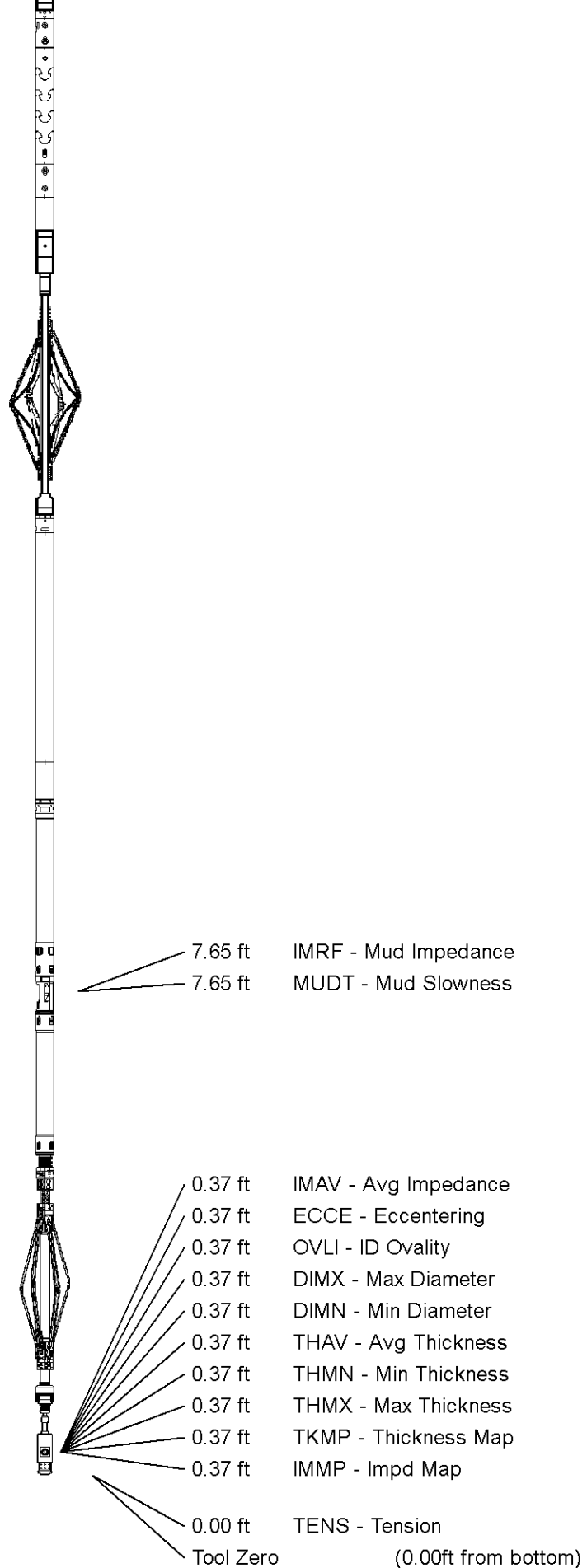
55 pin Roller Centralizer
CEN-XA 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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.

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	12118.00	feet
Elevation Ground Level	5004	feet	Depth Logger	6900.00	feet
<div><div>SECUREVIEW ULTRAVIEW/BONDVIEW CEMENT ANALYSIS</div></div>					