 Weatherford®				SECUREVIEW ULTRAVIEW / BONDVIEW CEMENT ANALYSIS			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				EXTRACTION OIL AND GAS MICKEY #1 WATTENBERG WELD UNITED STATES / COLORADO SW NE 5-6N-67W			
SEC 5	TWP 6N	RGE 67W	Other Services	PERFORATION RECORD			
Latitude			Elevations: KB DF GL				
Longitude							
API Number							
Permanent Datum GL, Elevation feet Log Measured From KB Drilling Measured From KB							
Date	22-FEB-2017			Shot	Number	Depth From	Depth To
Run Number	ONE			Density	of Shots	feet	feet
Service Order	7145-174898877						
Type Log	URS / CBT						
Depth Driller							
Depth Logger	6600.00						
Top Log Interval	0.00						
Bottom Log Interval	6600.00						
Hole Fluid Type	WATER BASED						
Hole Fluid Level	75.00						
Restriction ID	4.653						
Max Recorded Temp	187.00			Gun Type			
Well Head Pressure	0.00			Gun Size			
Well Head Equipment	NONE			CASING / TUBING RECORD			
Time Well Ready	ON ARRIVAL			Size	Weight	Depth From	Depth To
Time Logger Bottom	17:00			inches	pounds/ft	feet	feet
Unit	14329				36.00	0.00	1565.00
					20.00	0.00	17360.00
Equipment Name	WSS-E						
Base	CASPER						
Recorded By	K. HUSETH						
Witnessed By	NOT WITNESSED						

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE			9.625	0.00	1565.00	36.00
PRODUCTION			5.500	0.00	17360.00	20.00

REMARKS
SECUREVIEW ULTRAVIEW LOG CORRELATED TO RIB KB AT 25 FT ABOVE GROUND LEVEL
LOGGING INTERVAL WAS STARTED AT ROUGHLY 50 FT ABOVE THE KICK OFF POINT
TOOL EXPERIENCED DECENTRALIZATION AT SEVERAL POINTS THROUGHOUT THE LOG CAUSING THE RADIUS MEASUREMENTS AND IMPEDANCE VALUES TO BE GREATLY AFFECTED. THESE VALUES SHOULD BE CONSIDERED INVALID OVER THESE AREAS

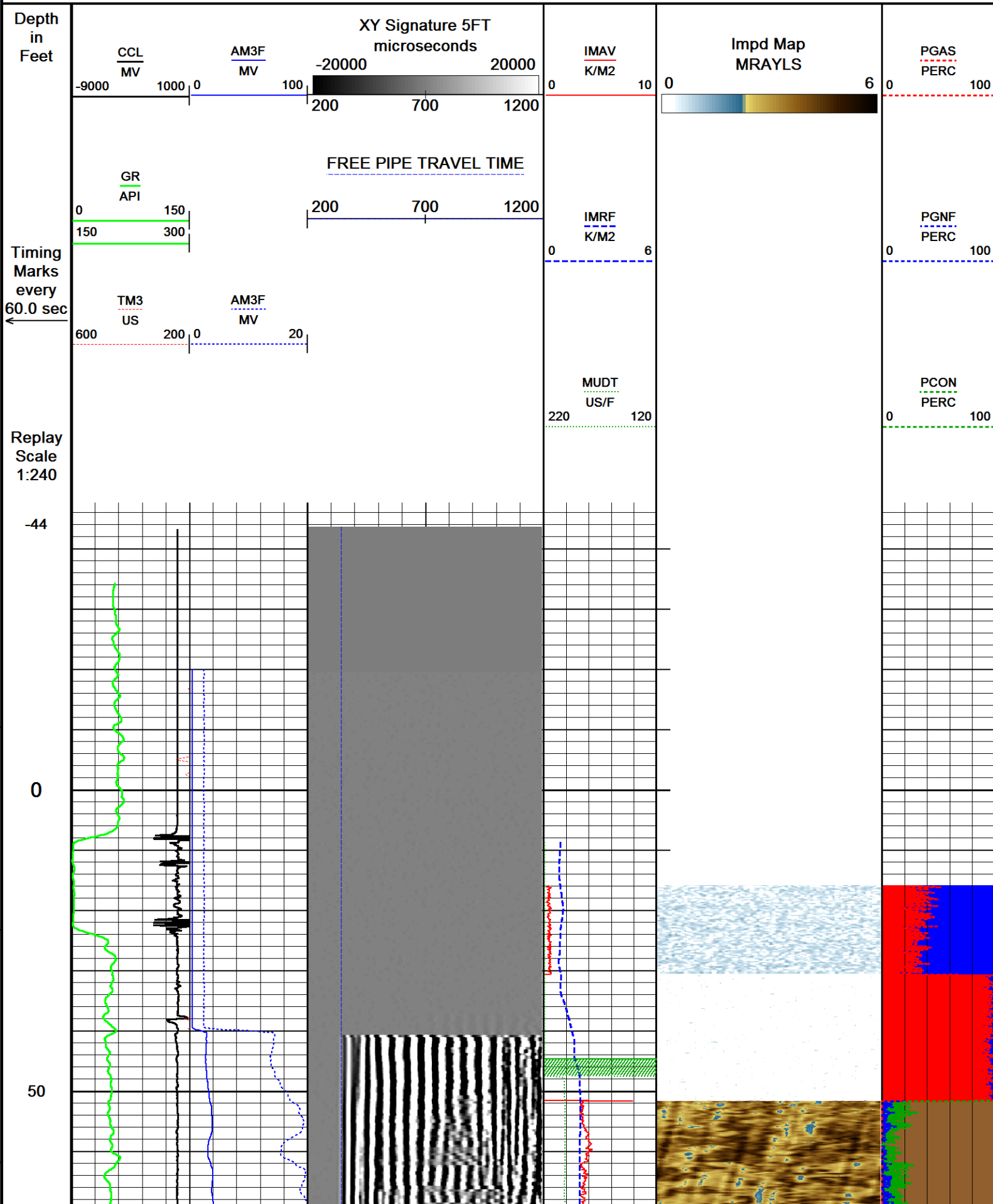
<p>In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.</p>
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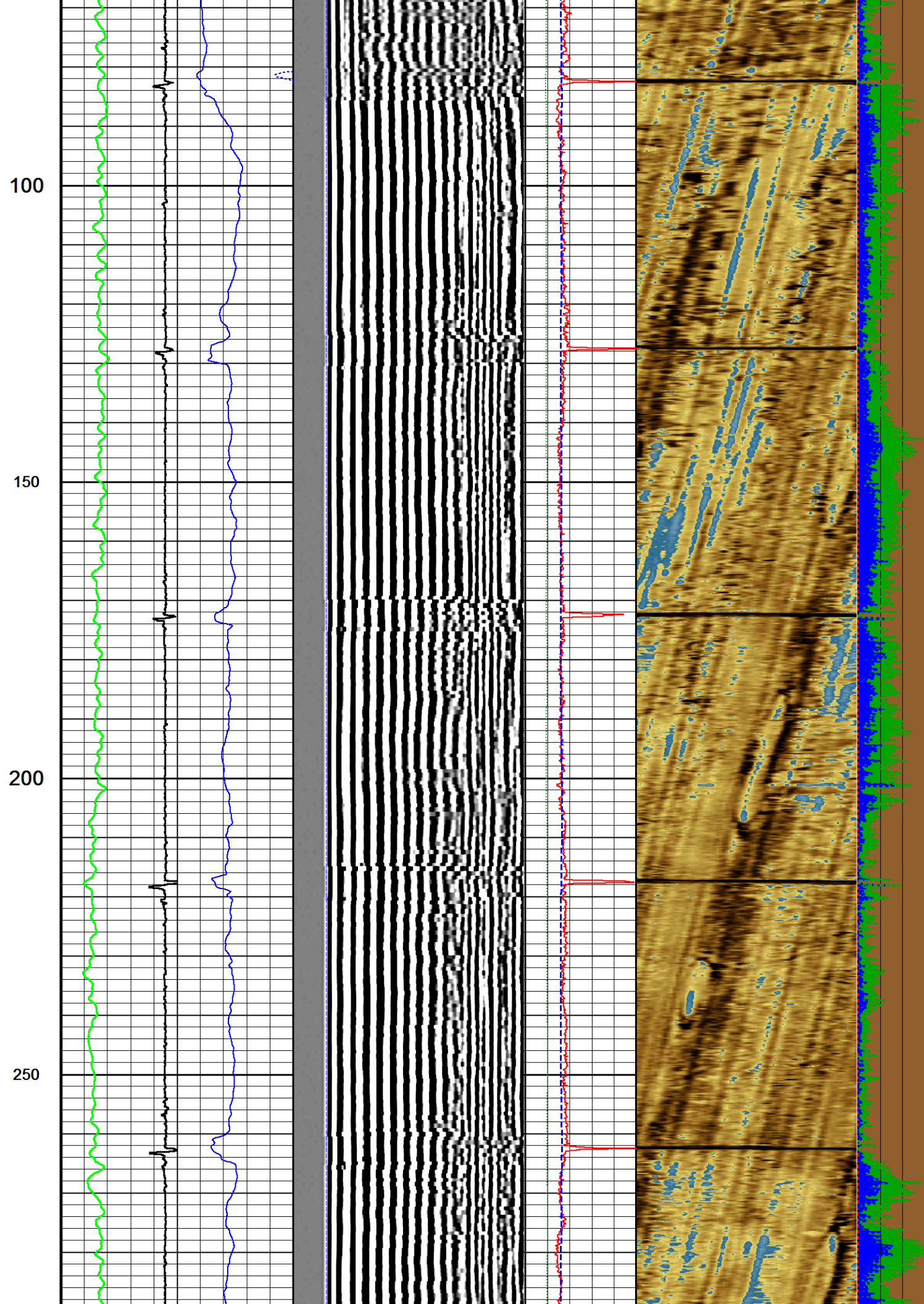
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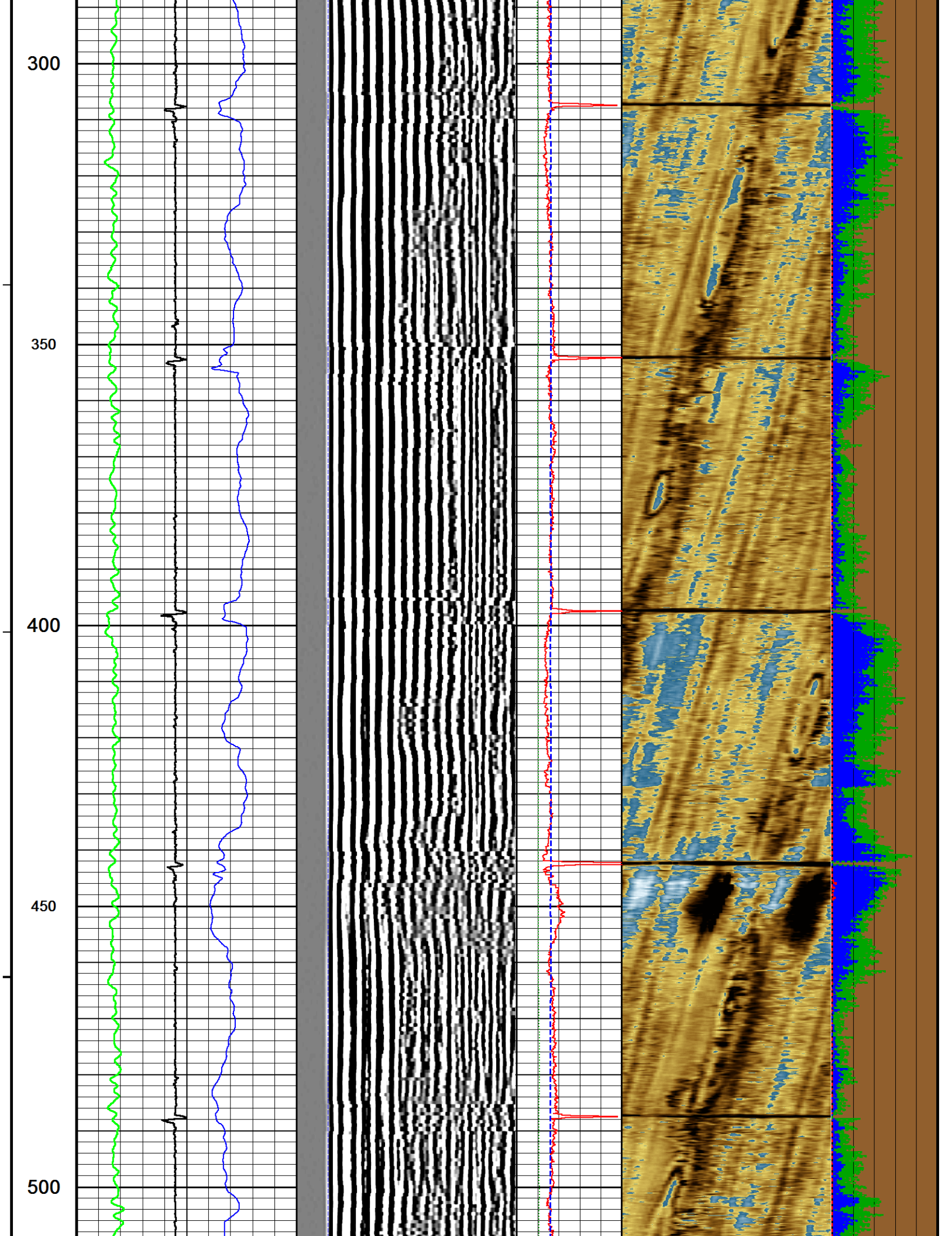
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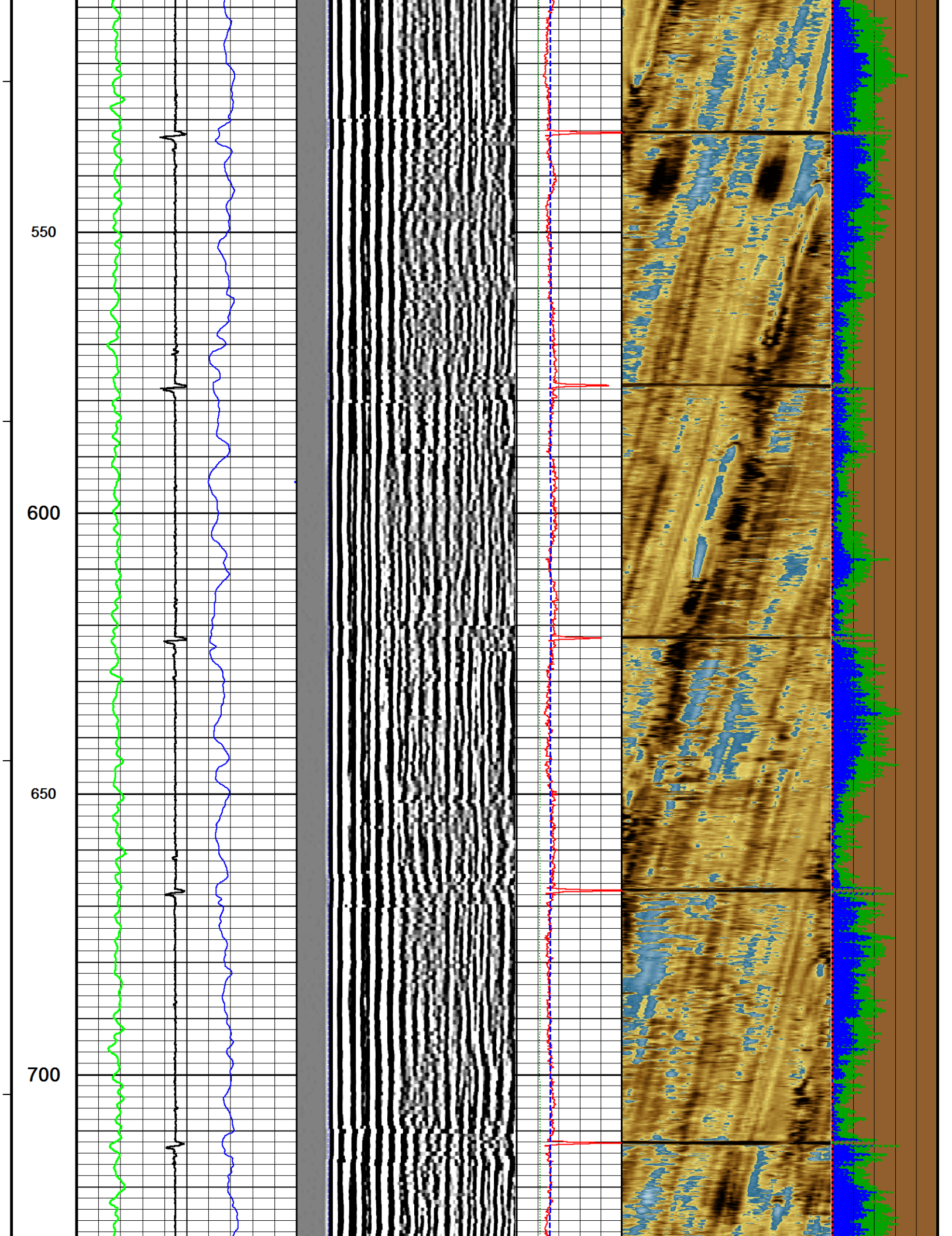
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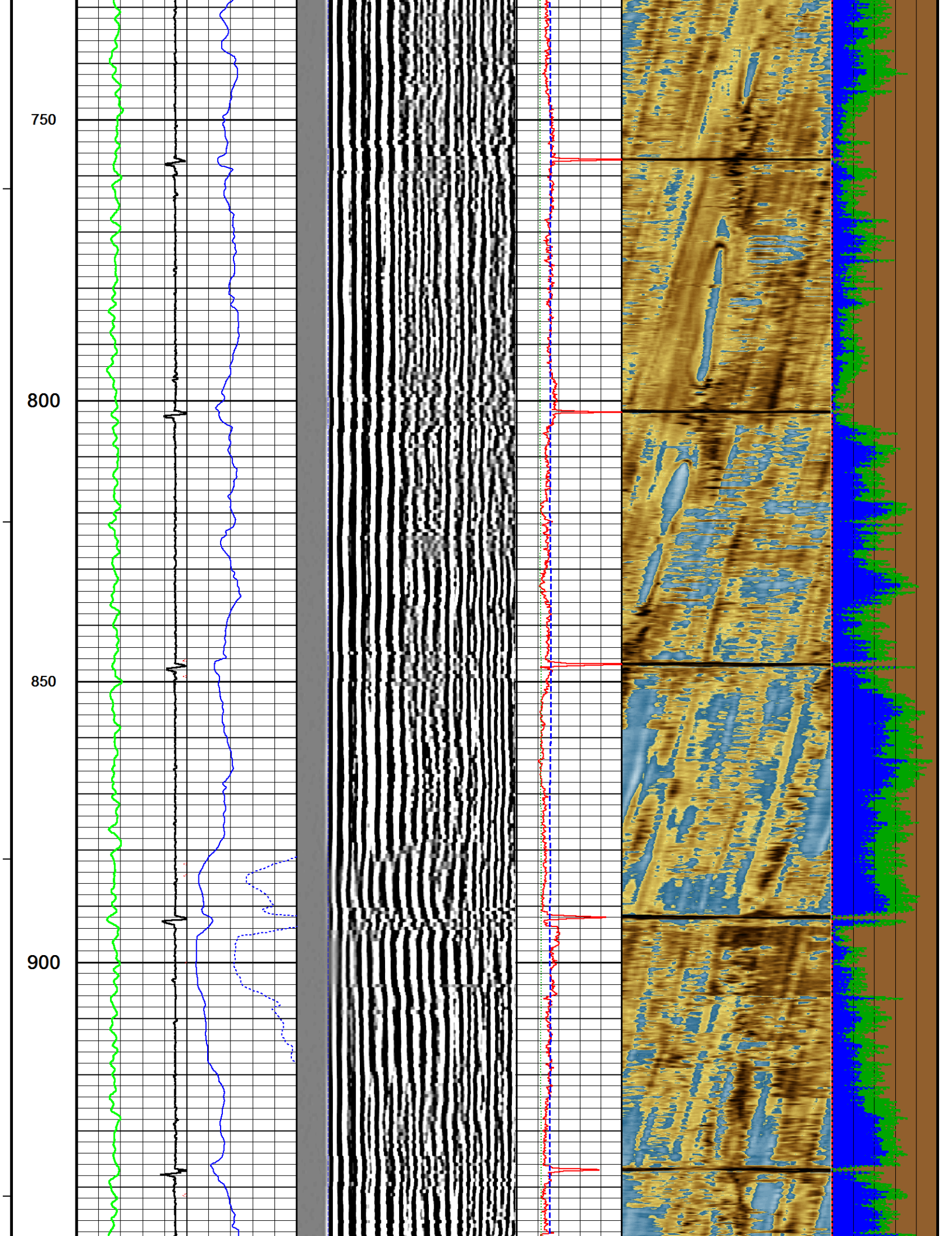
System Versions: Logged with 16.05.4955 Processed with 16.05.3841 Plotted with 16.05.3841

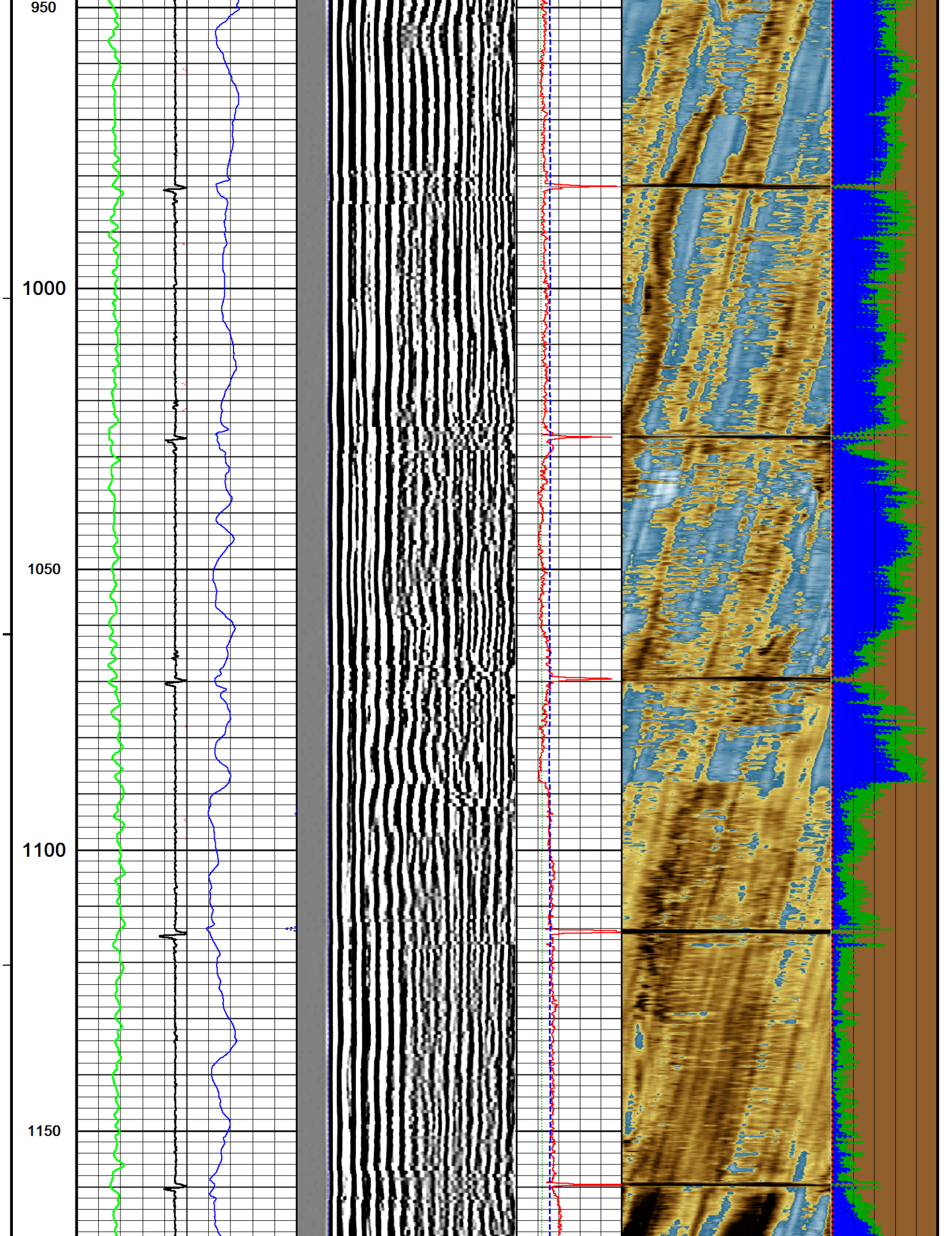


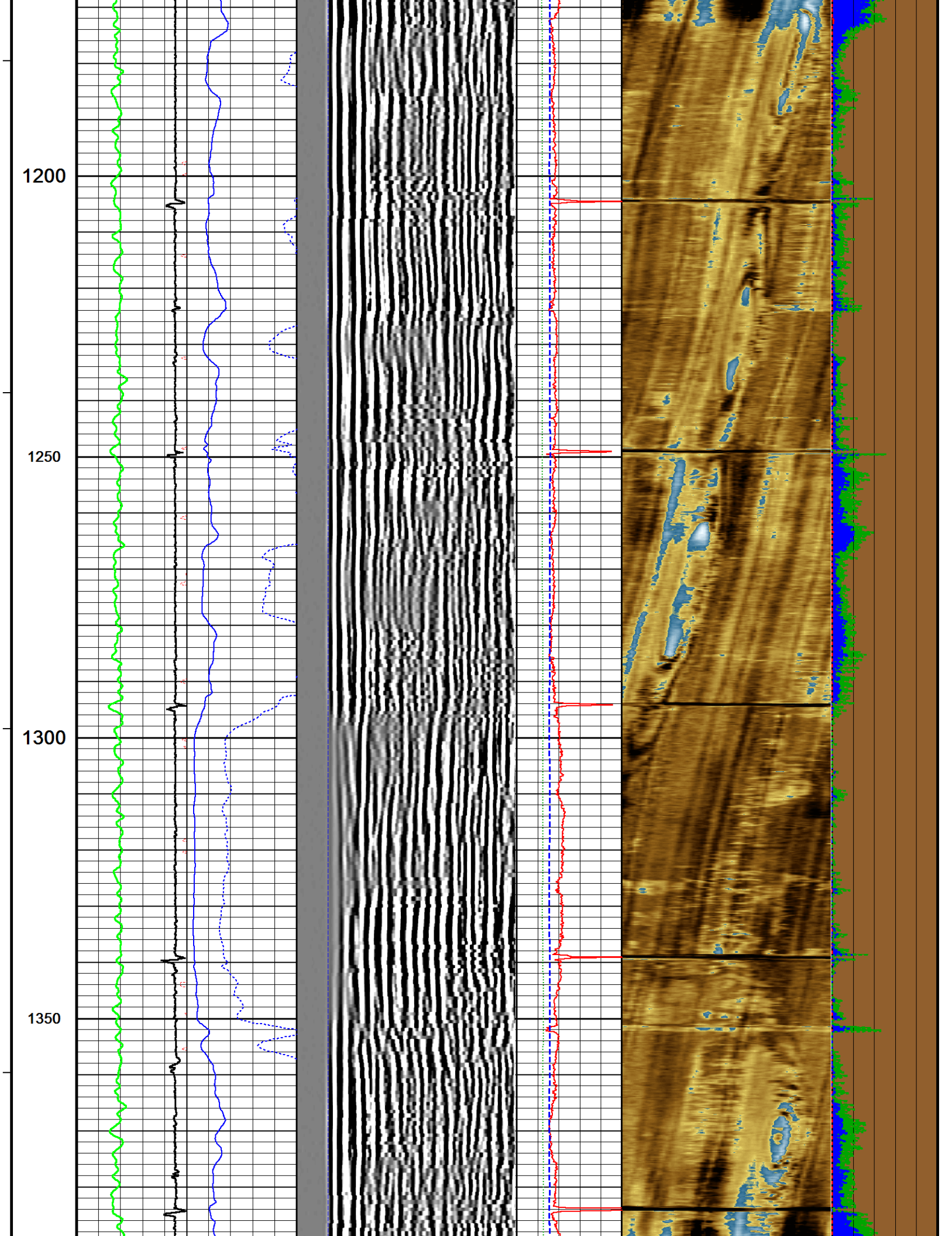


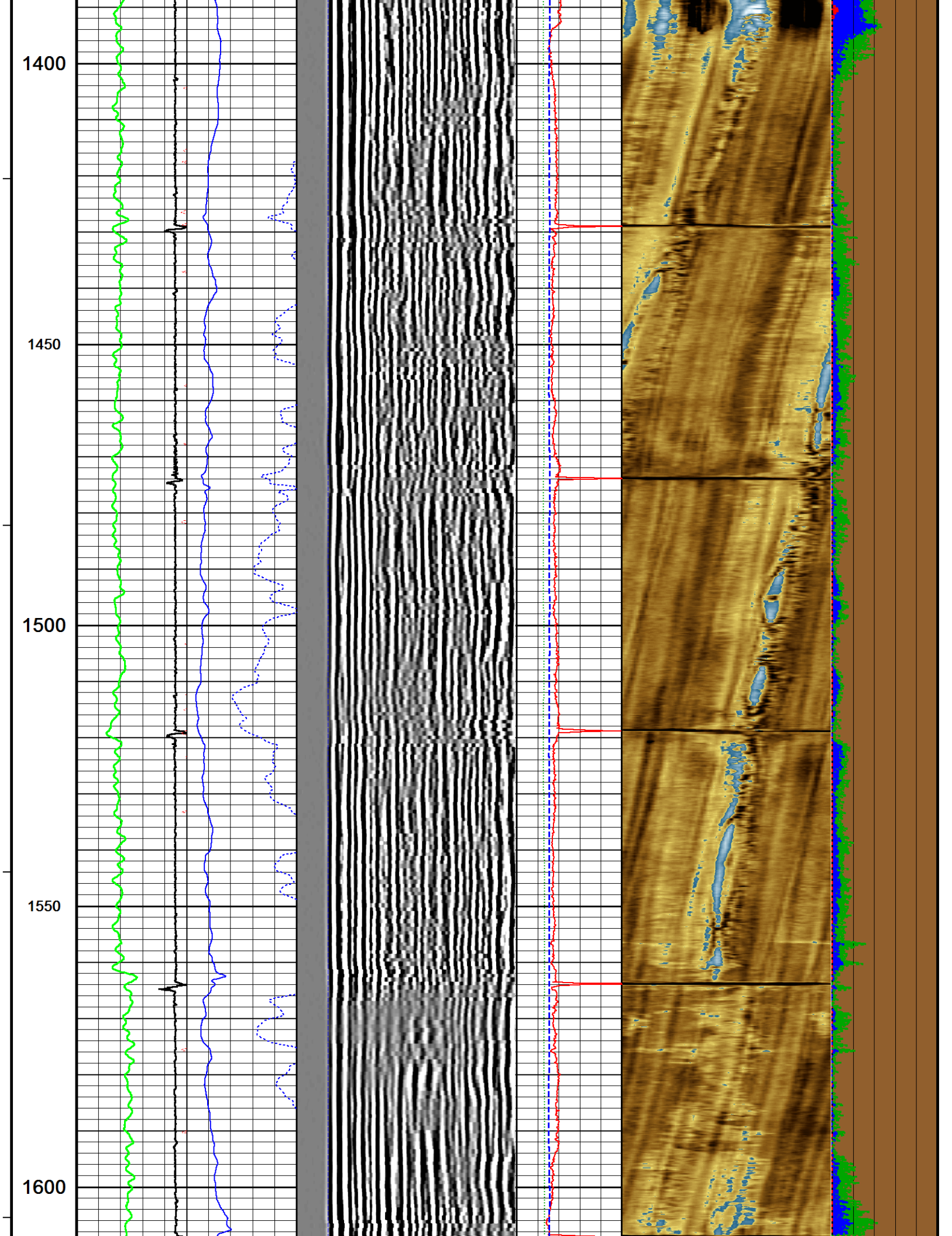


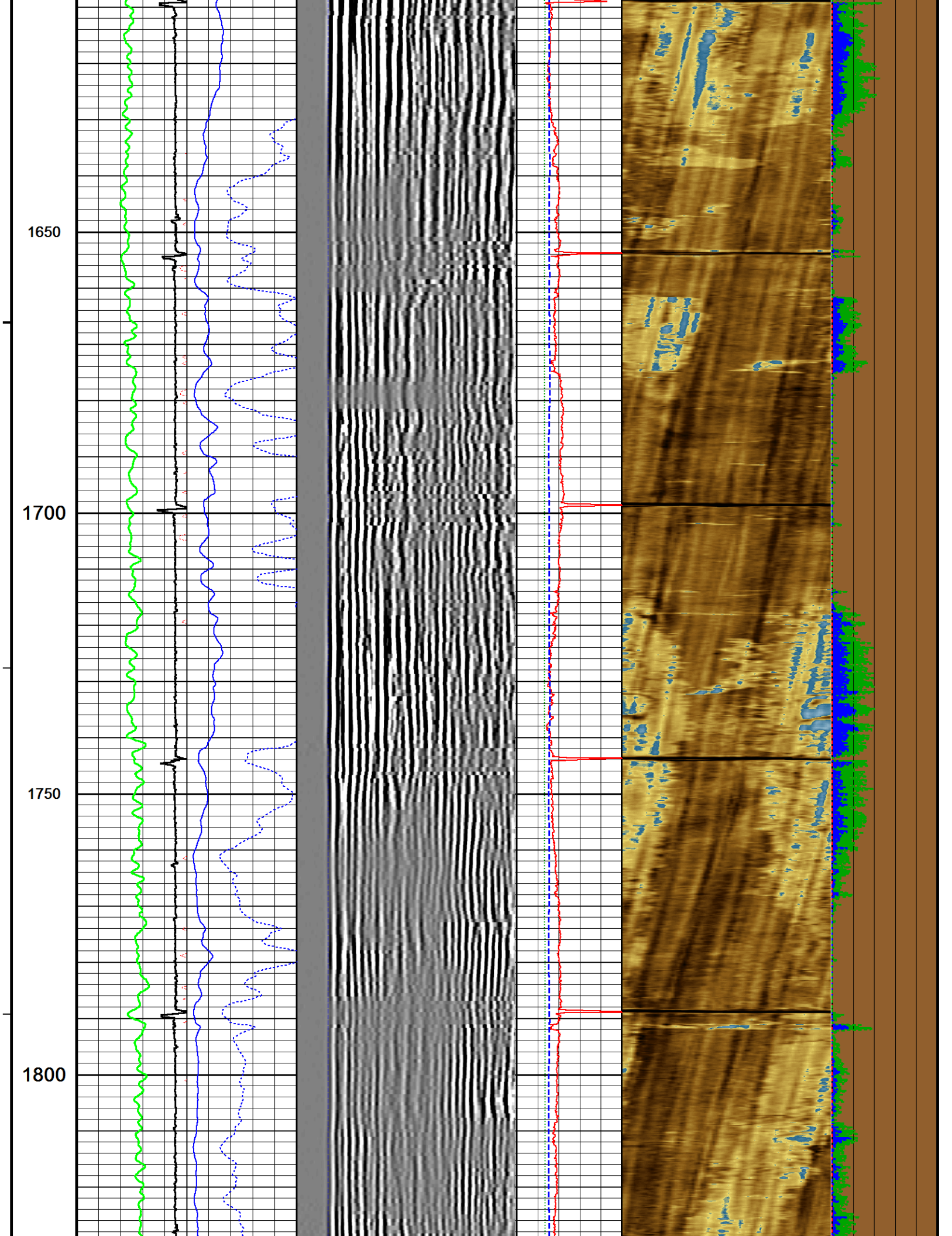


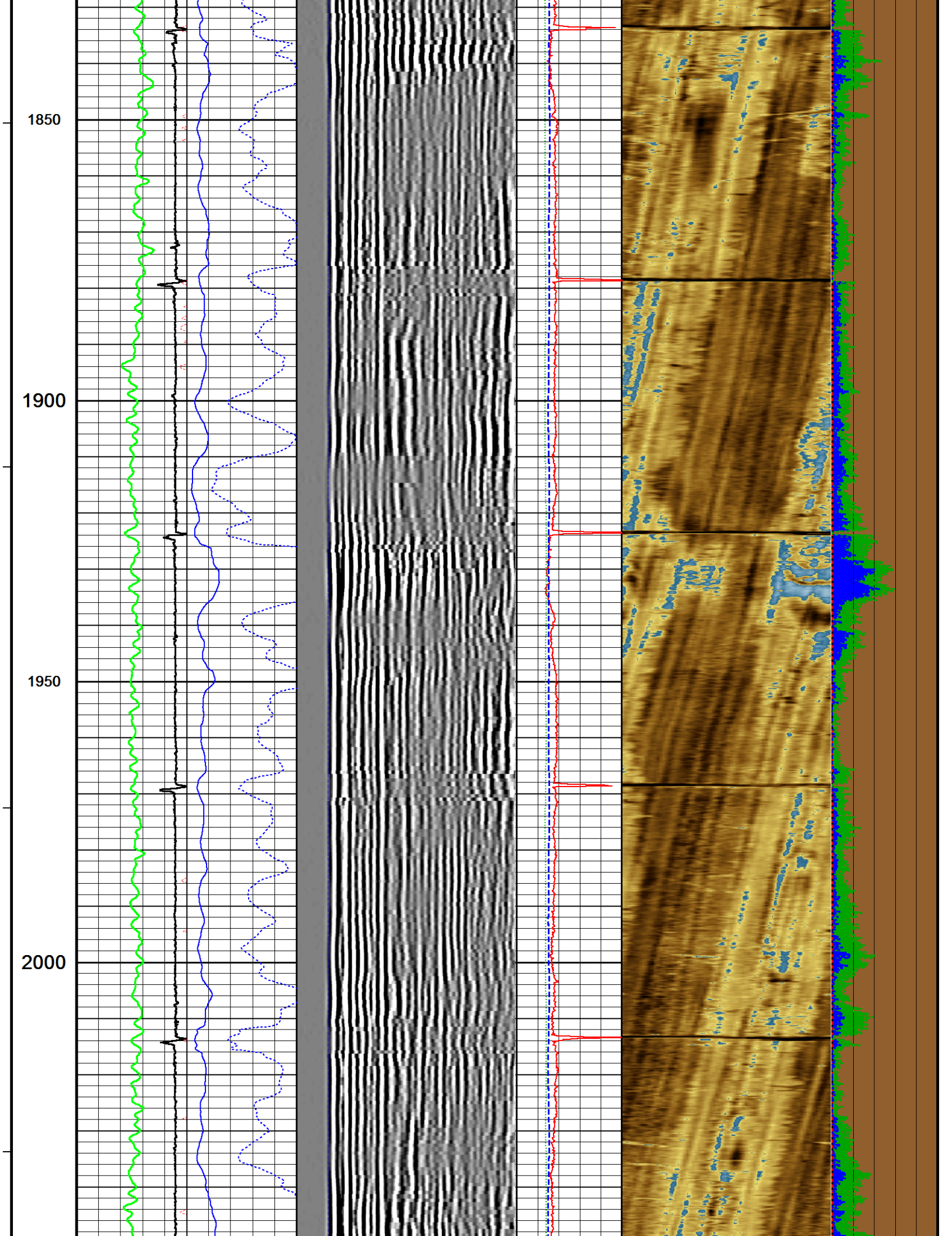


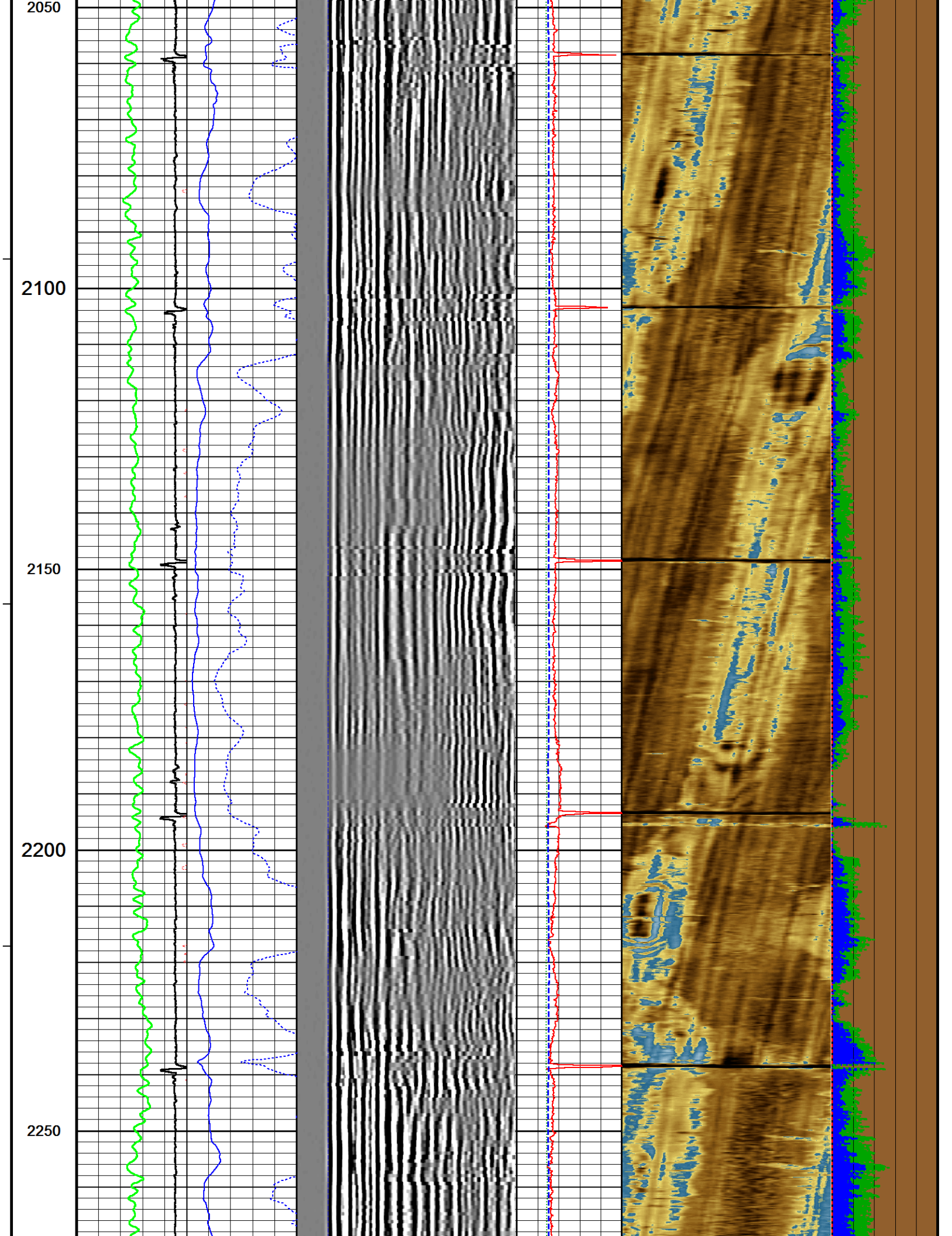


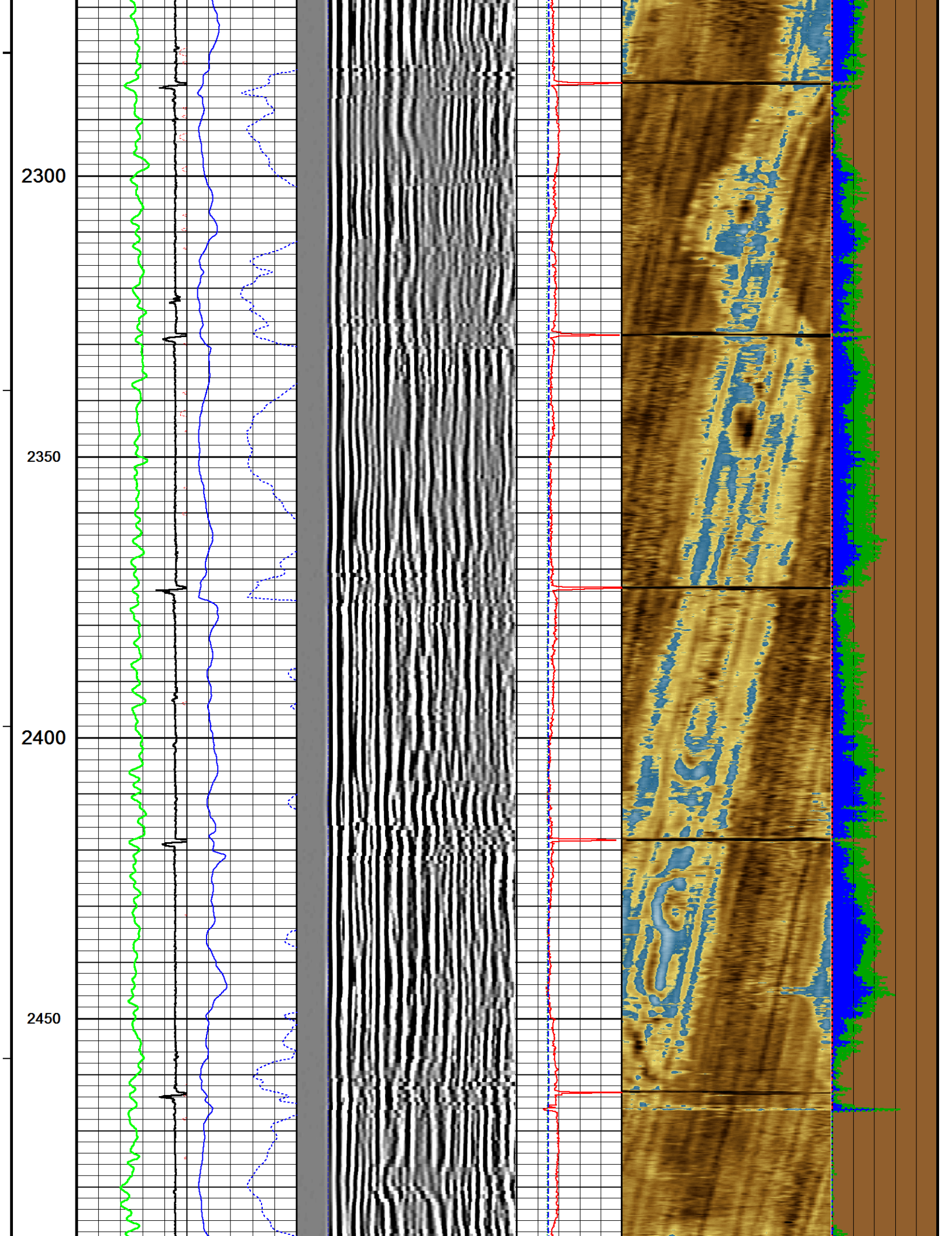


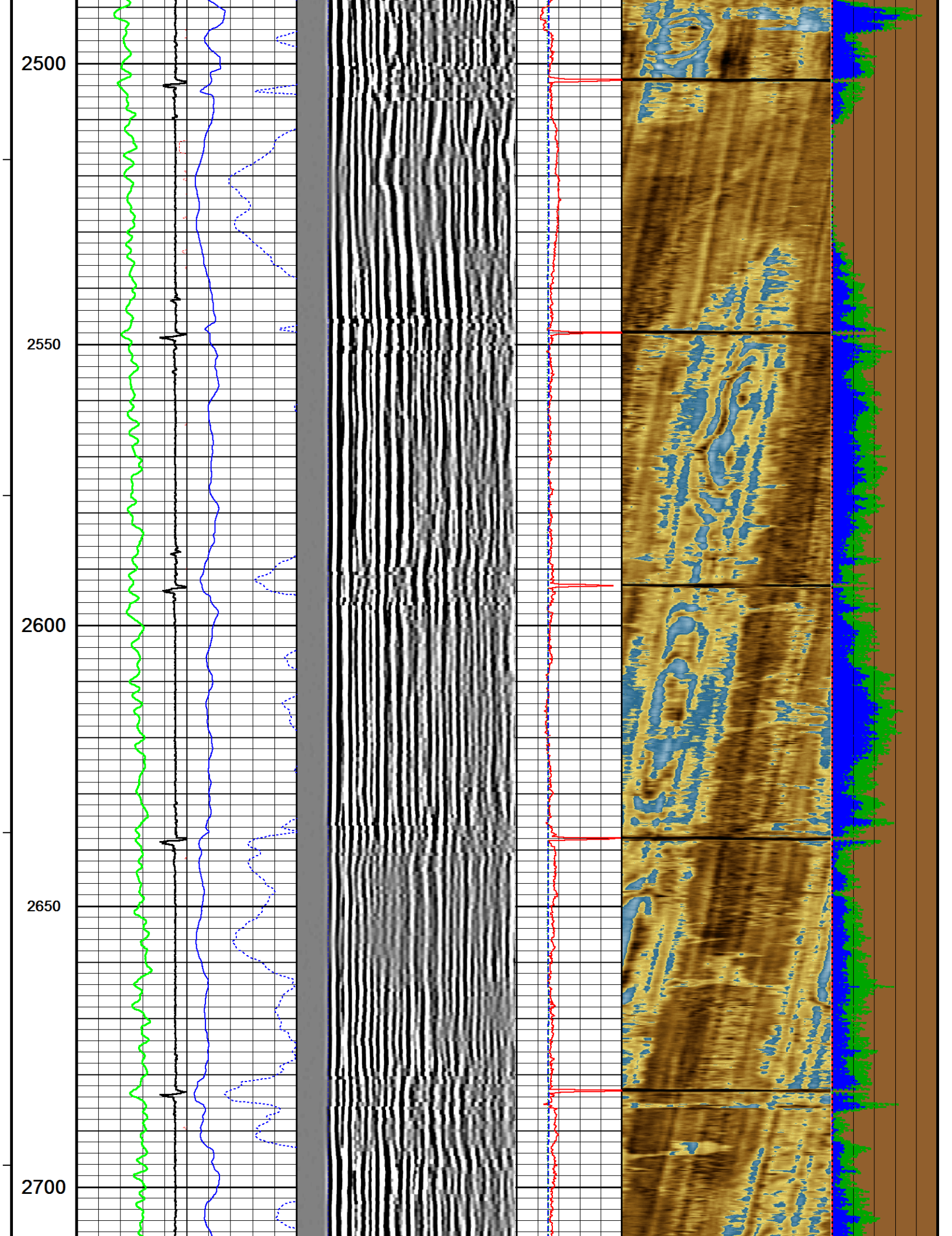


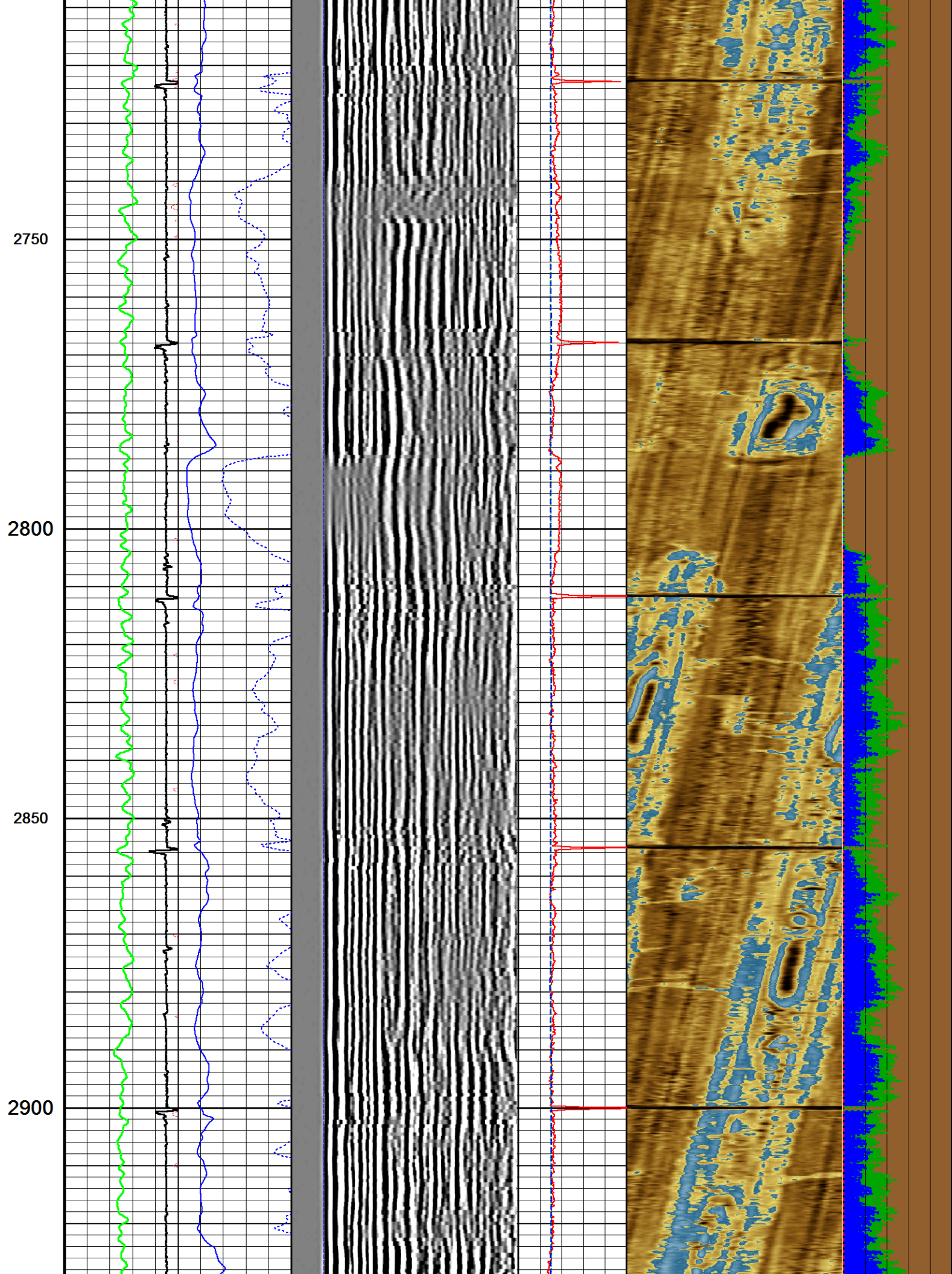


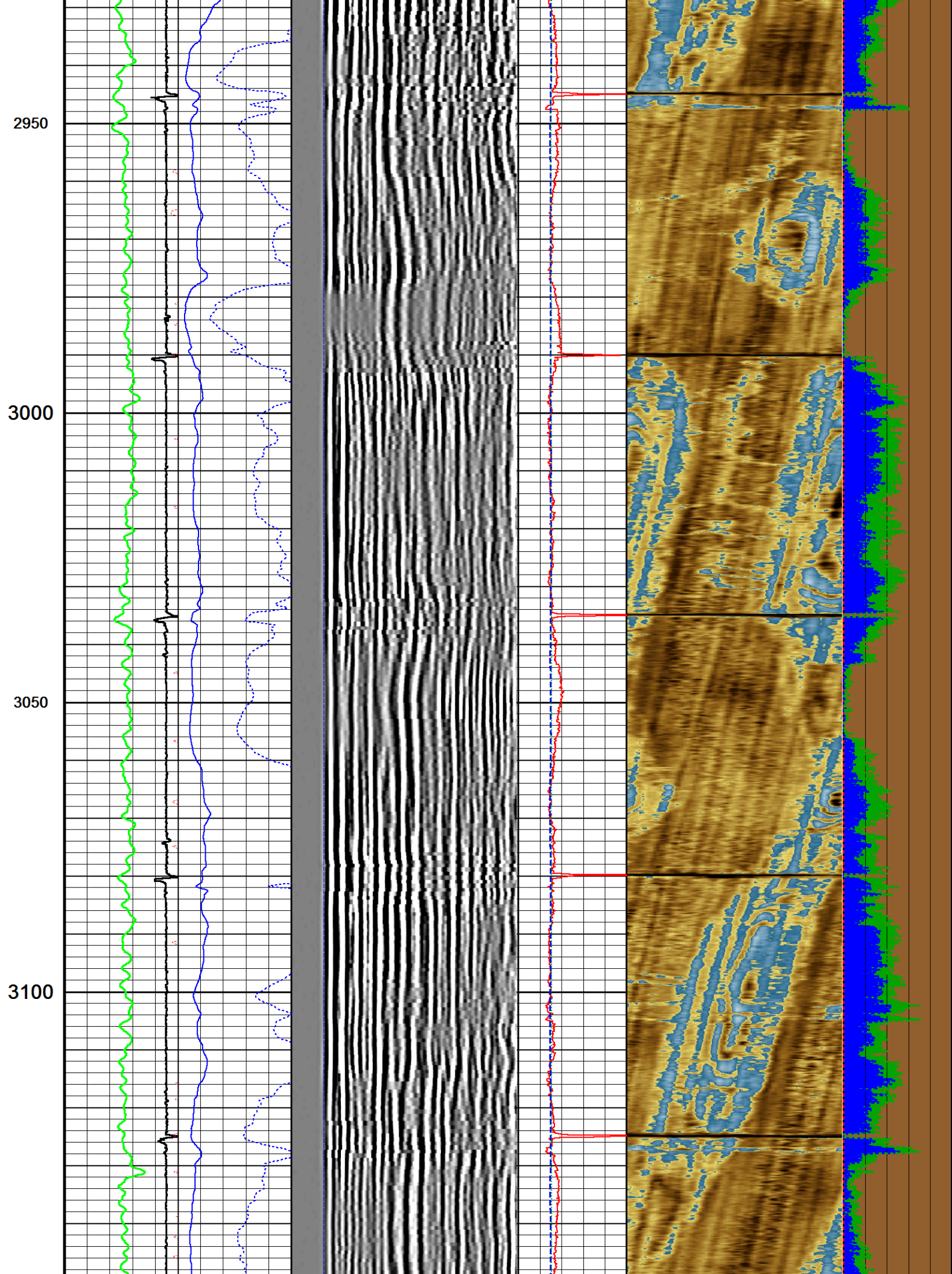


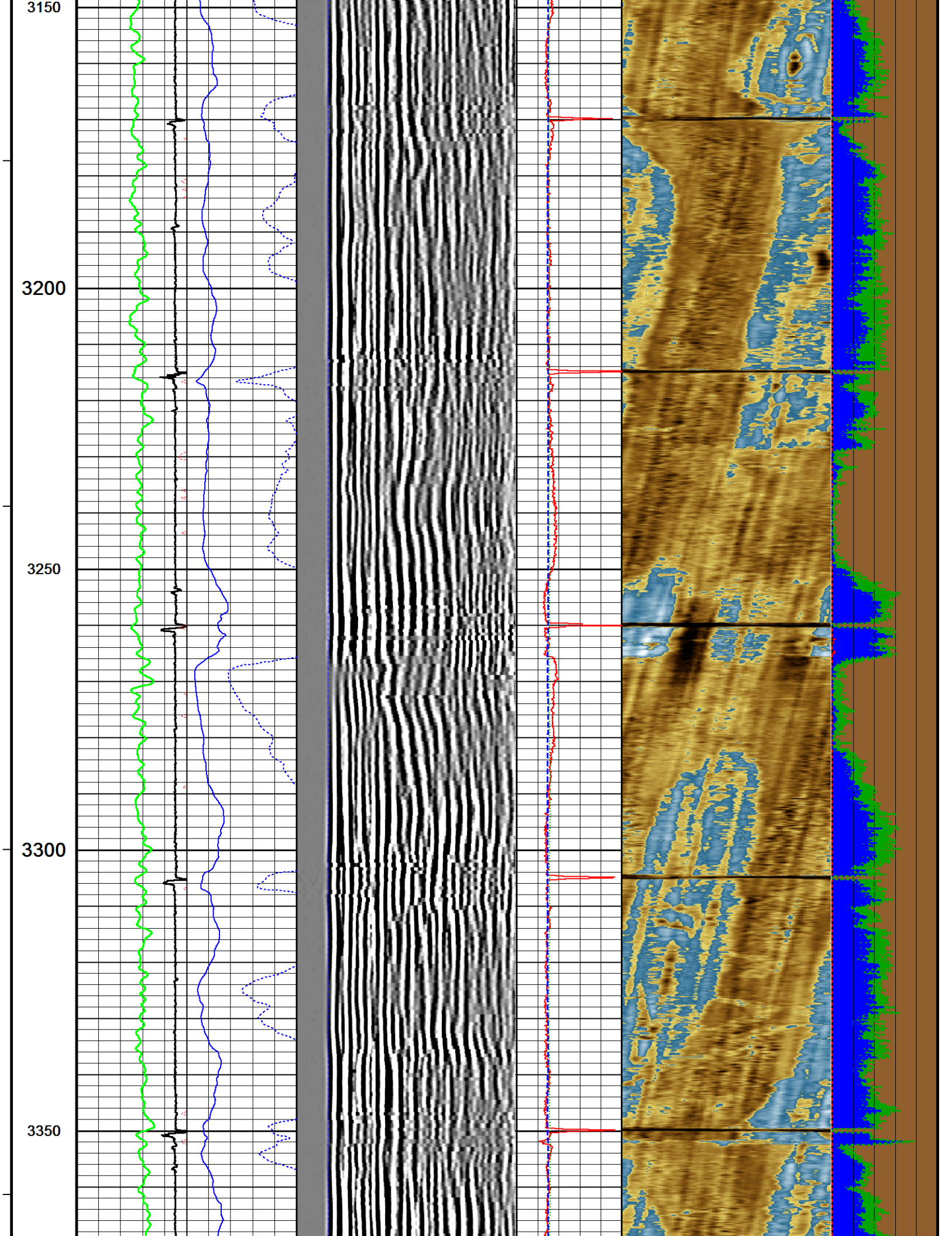


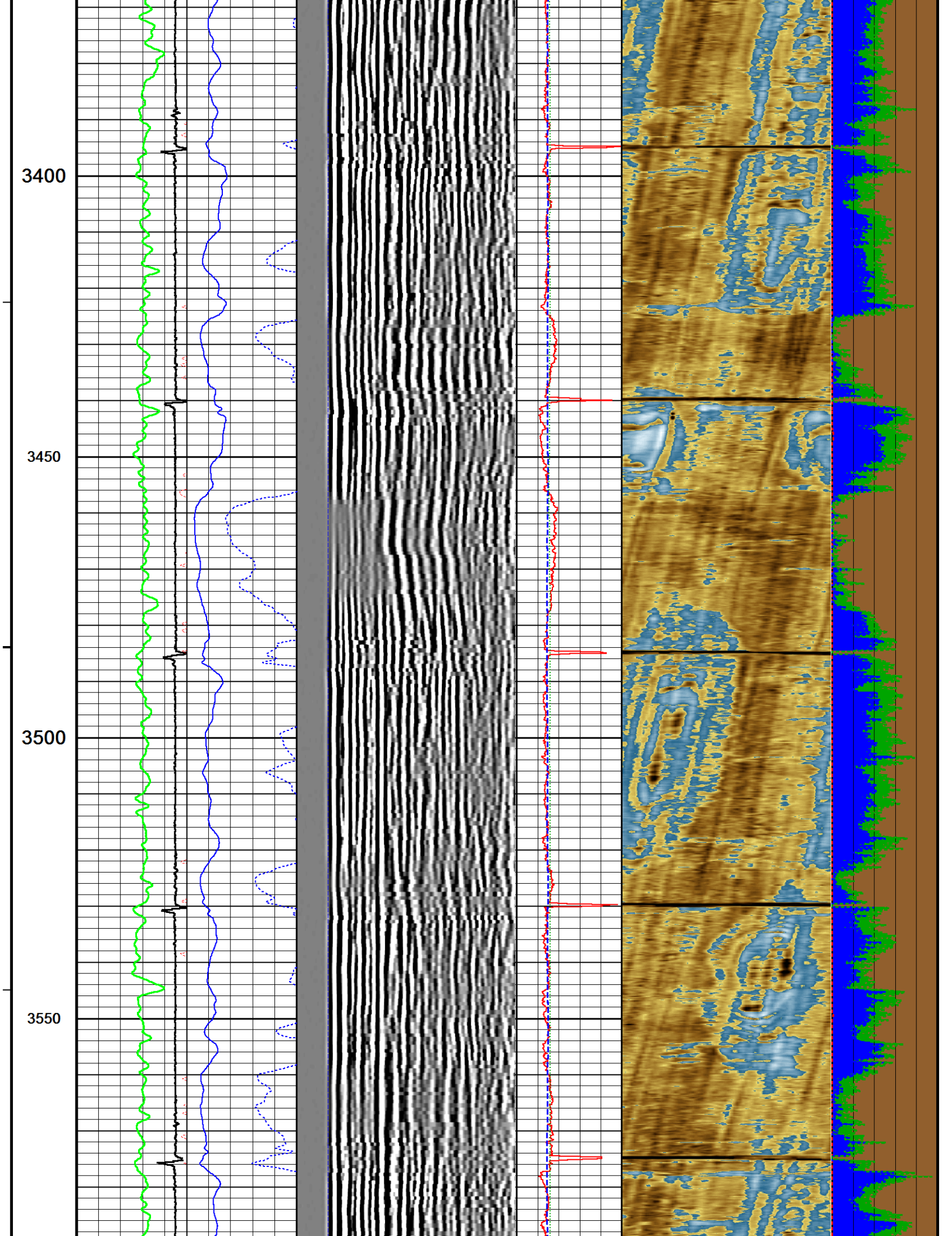


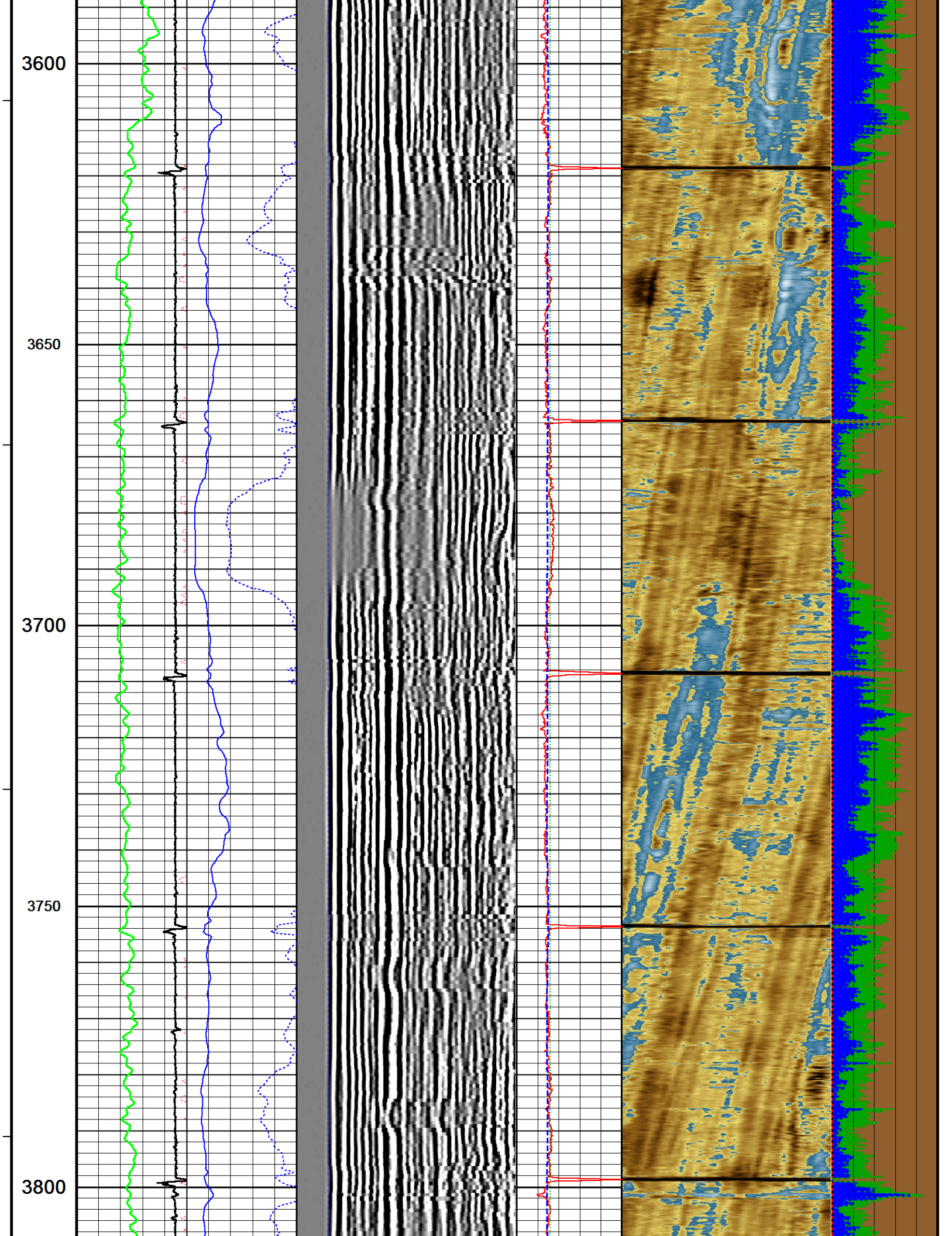


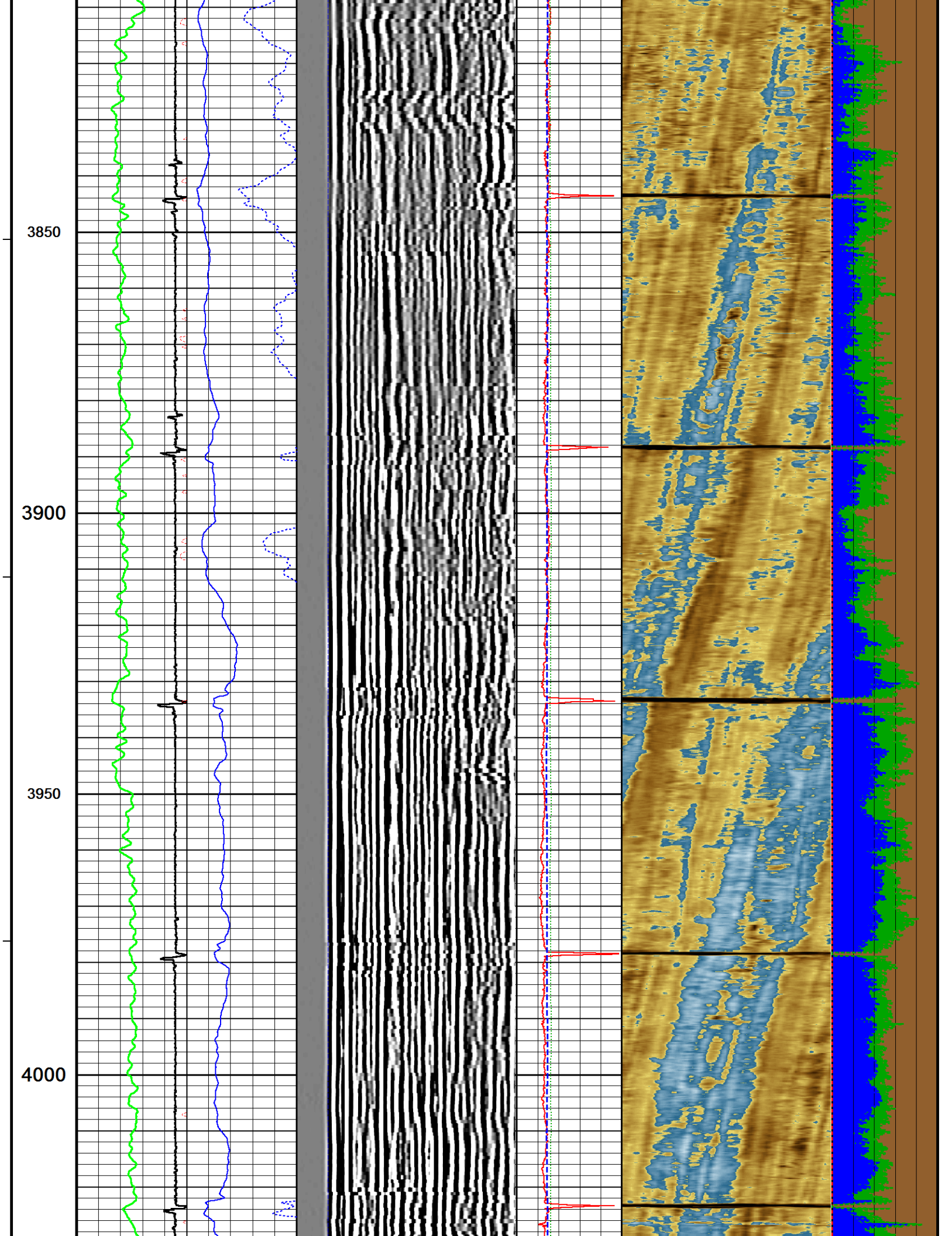


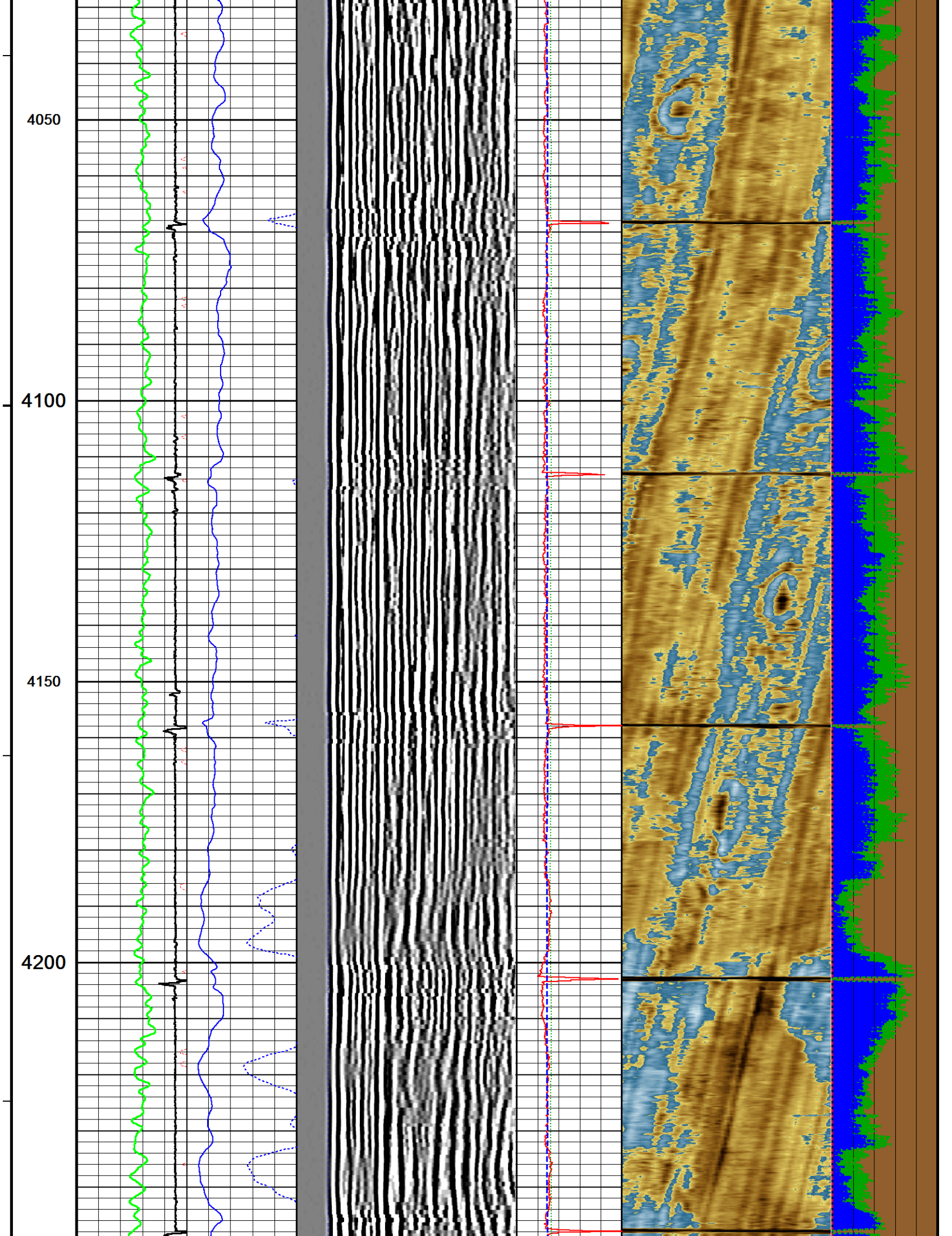


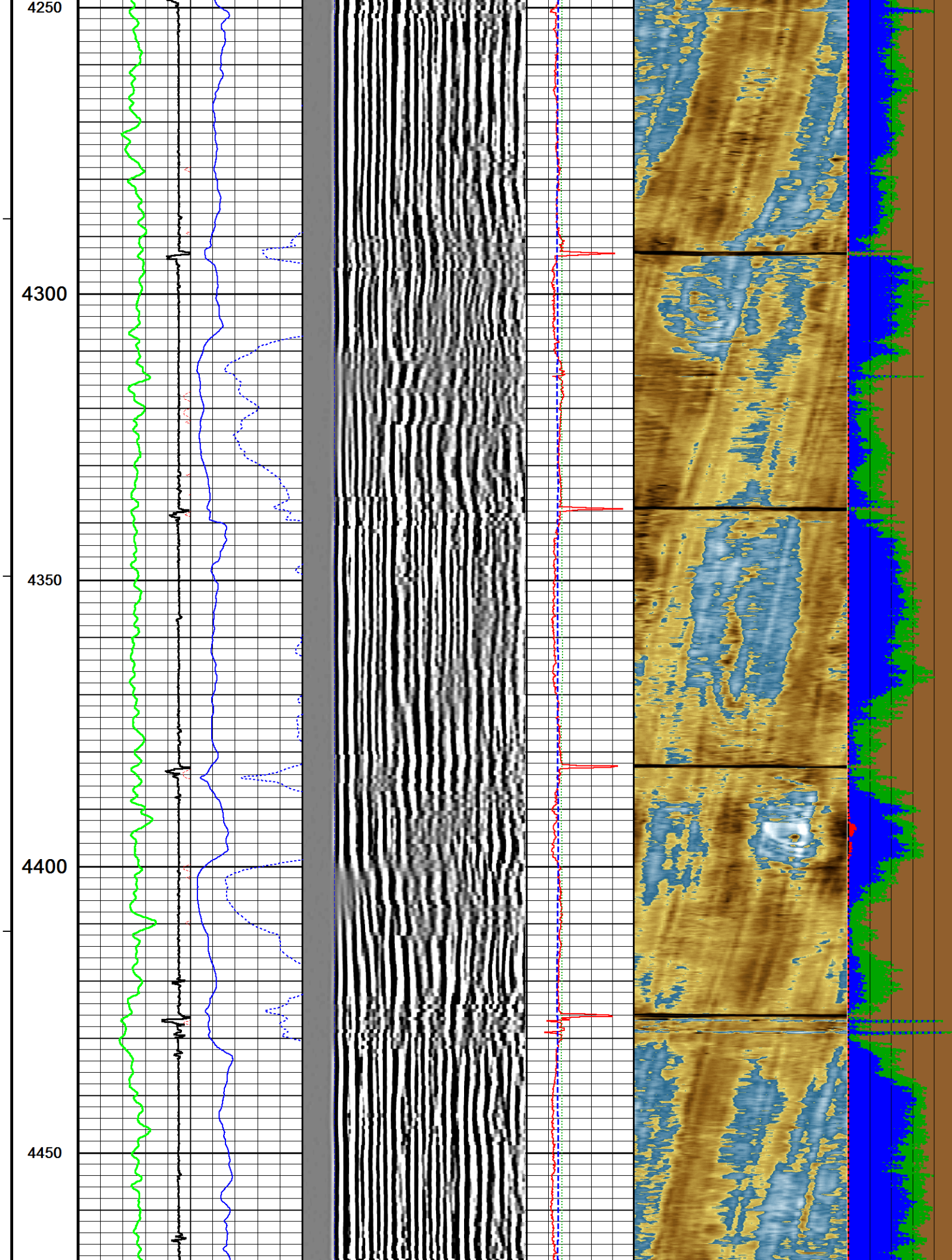


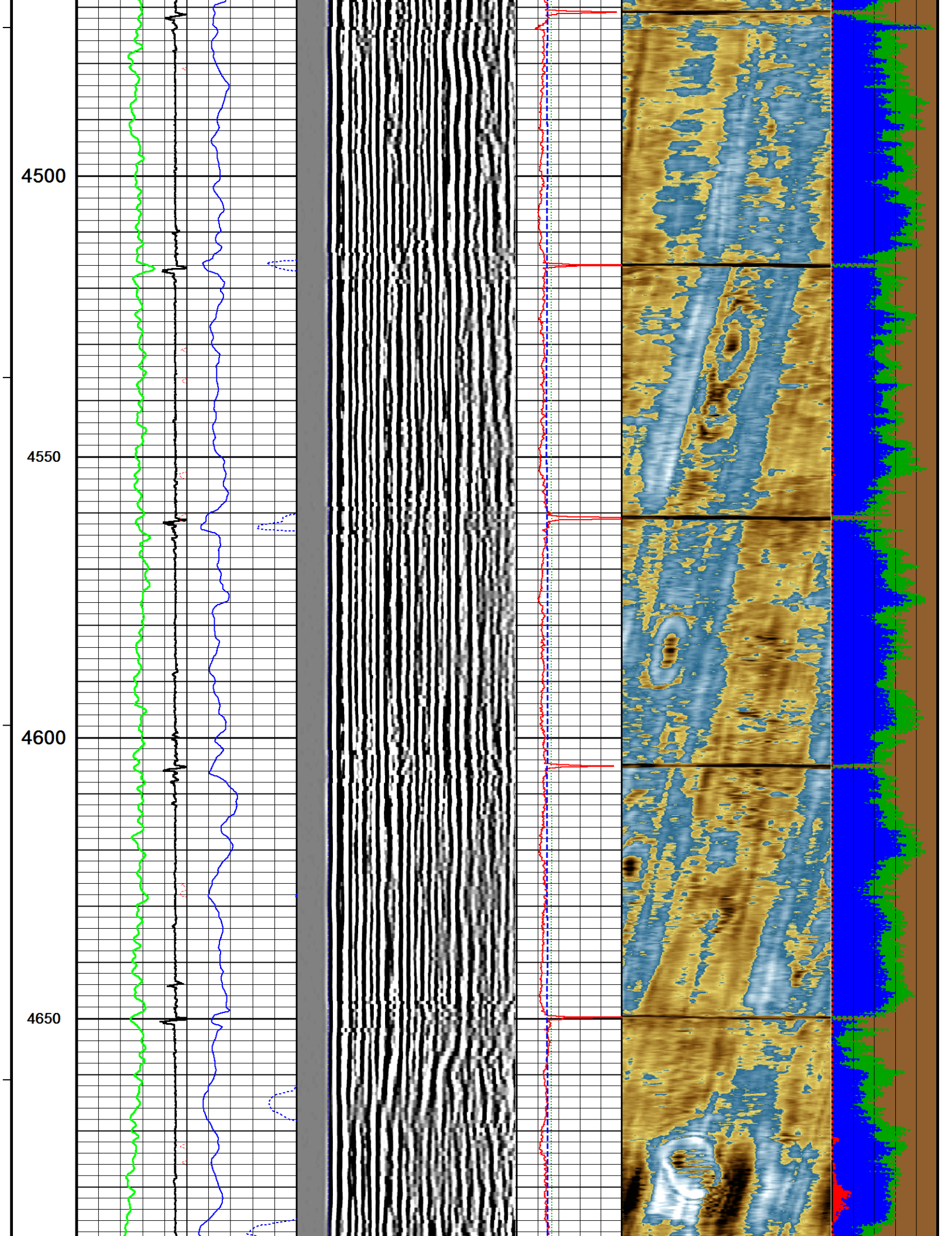


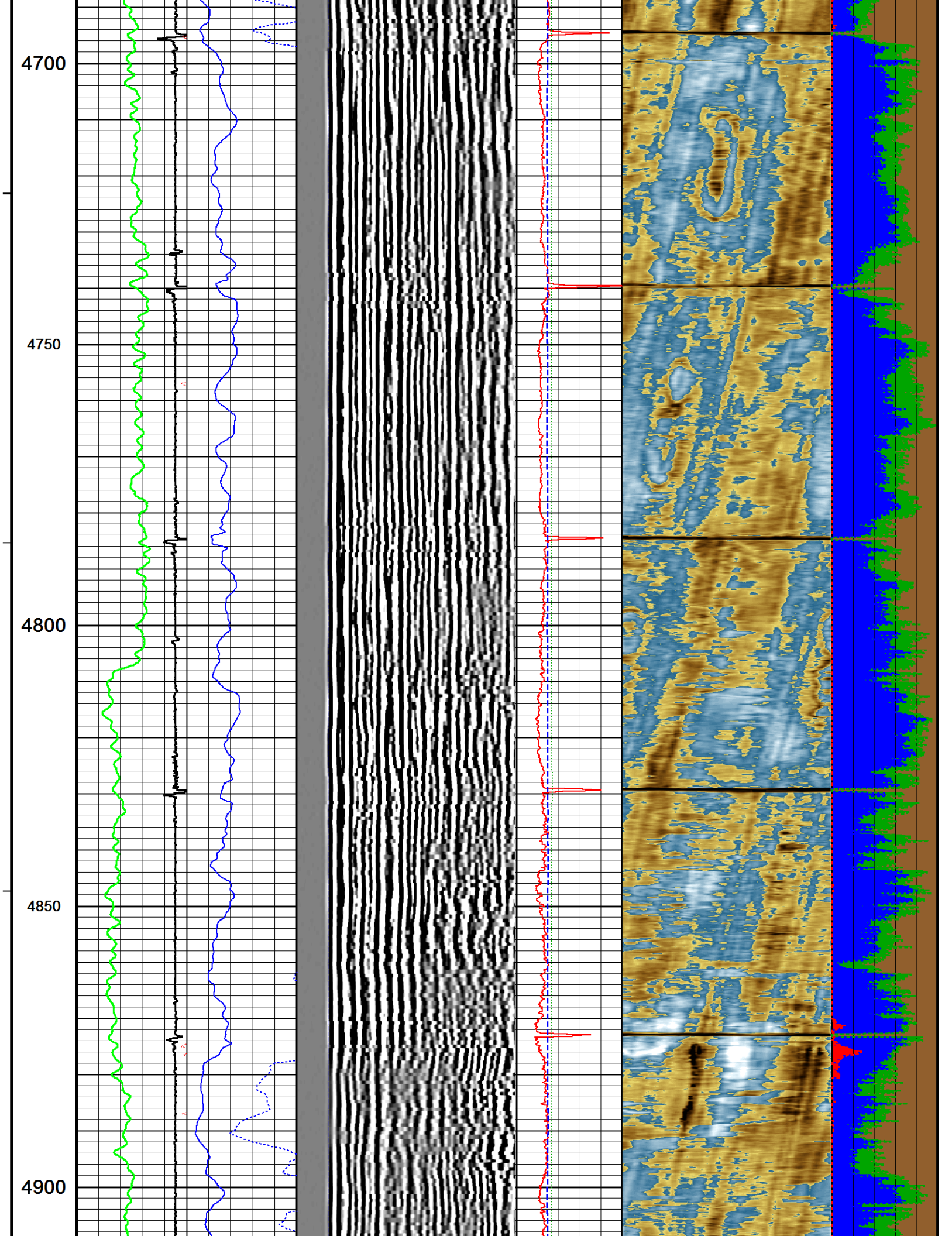


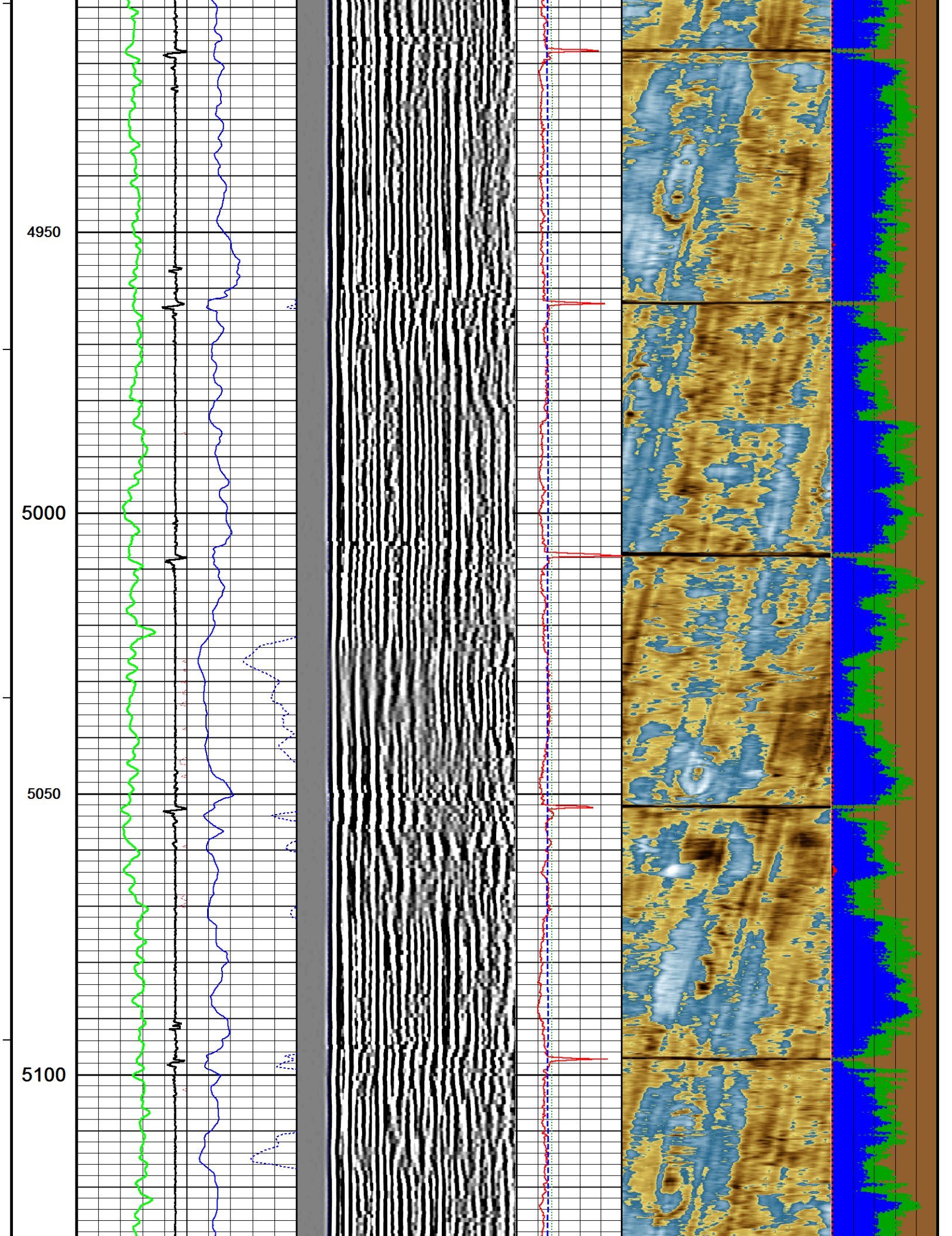


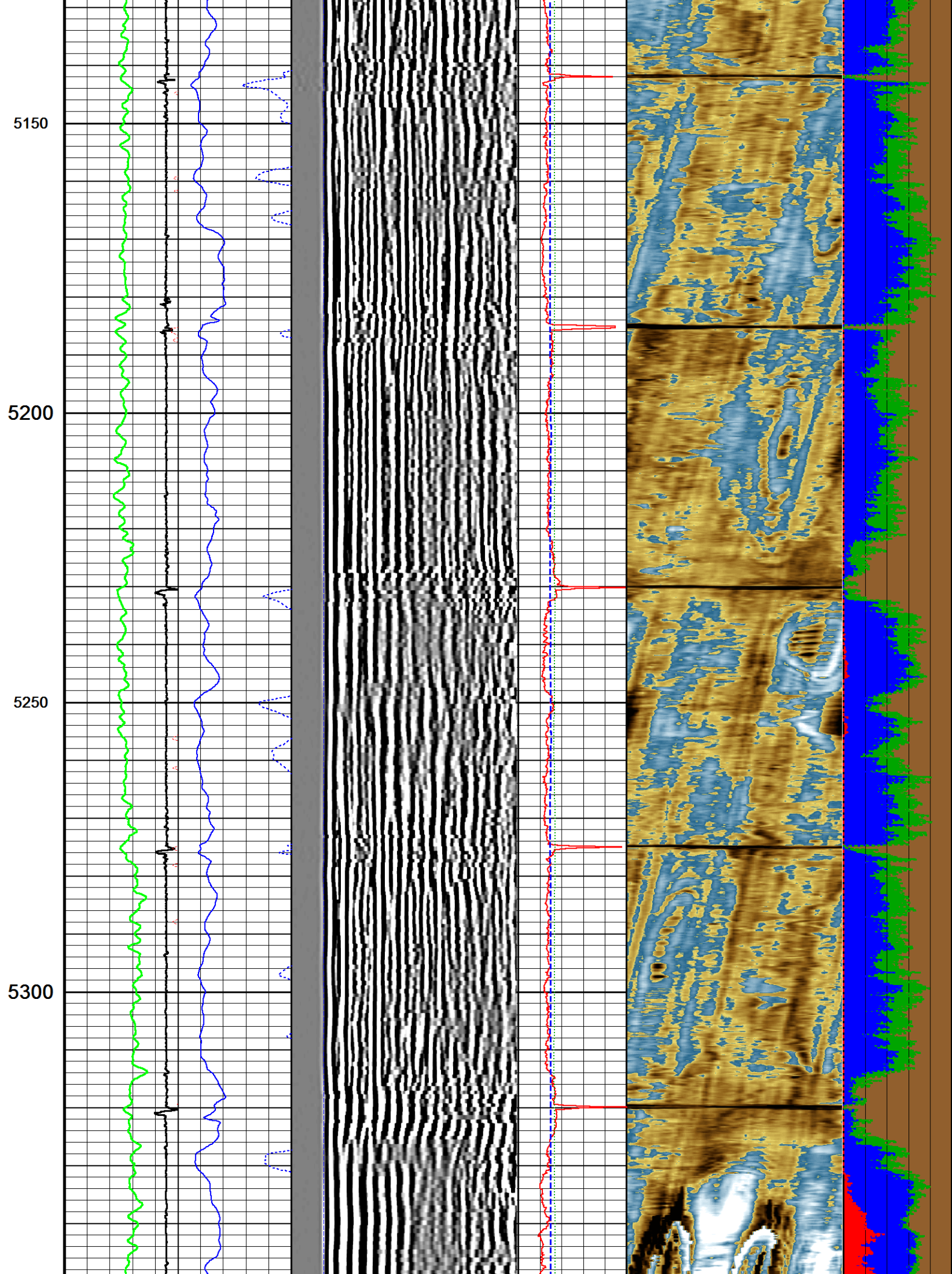


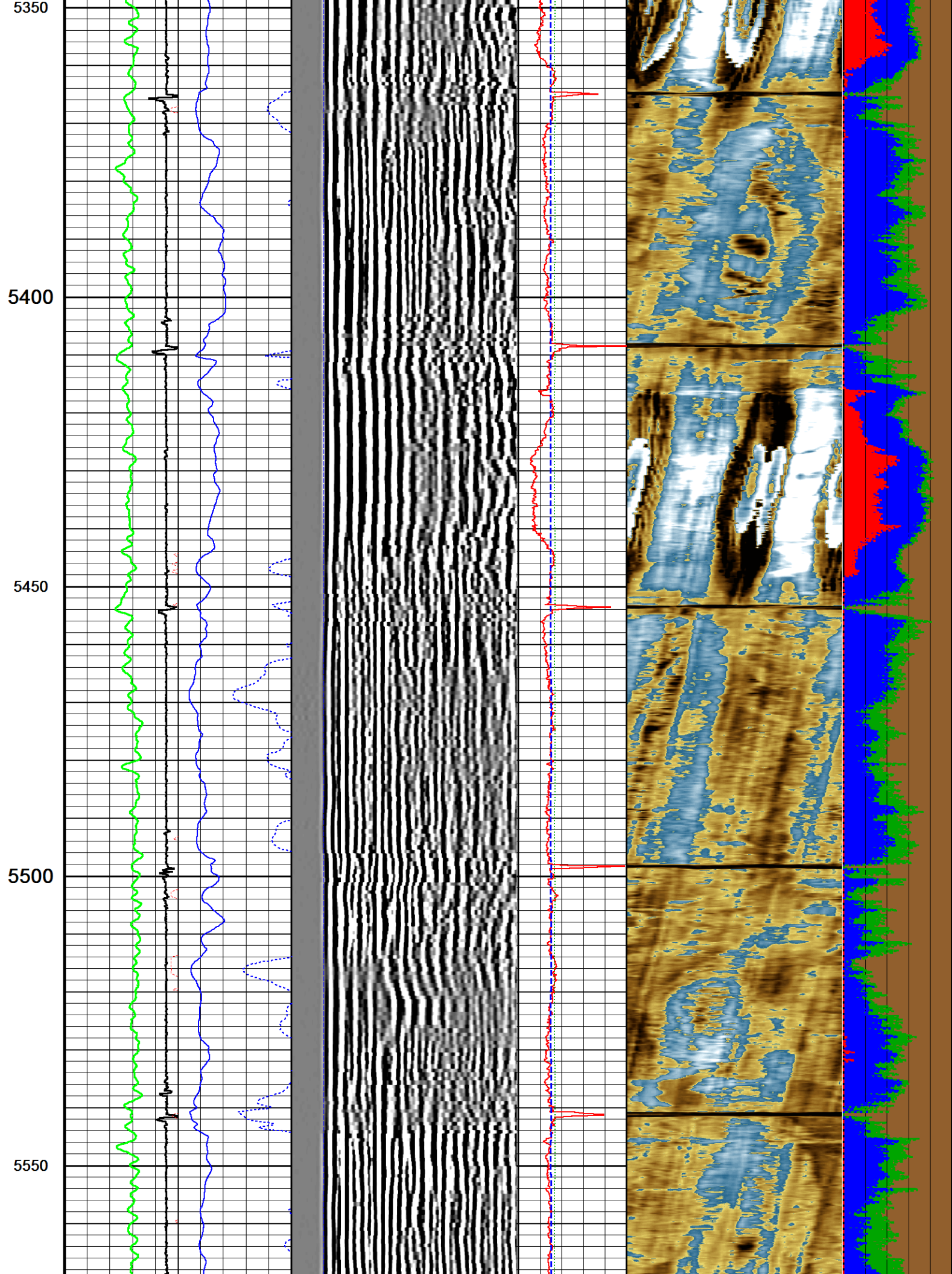


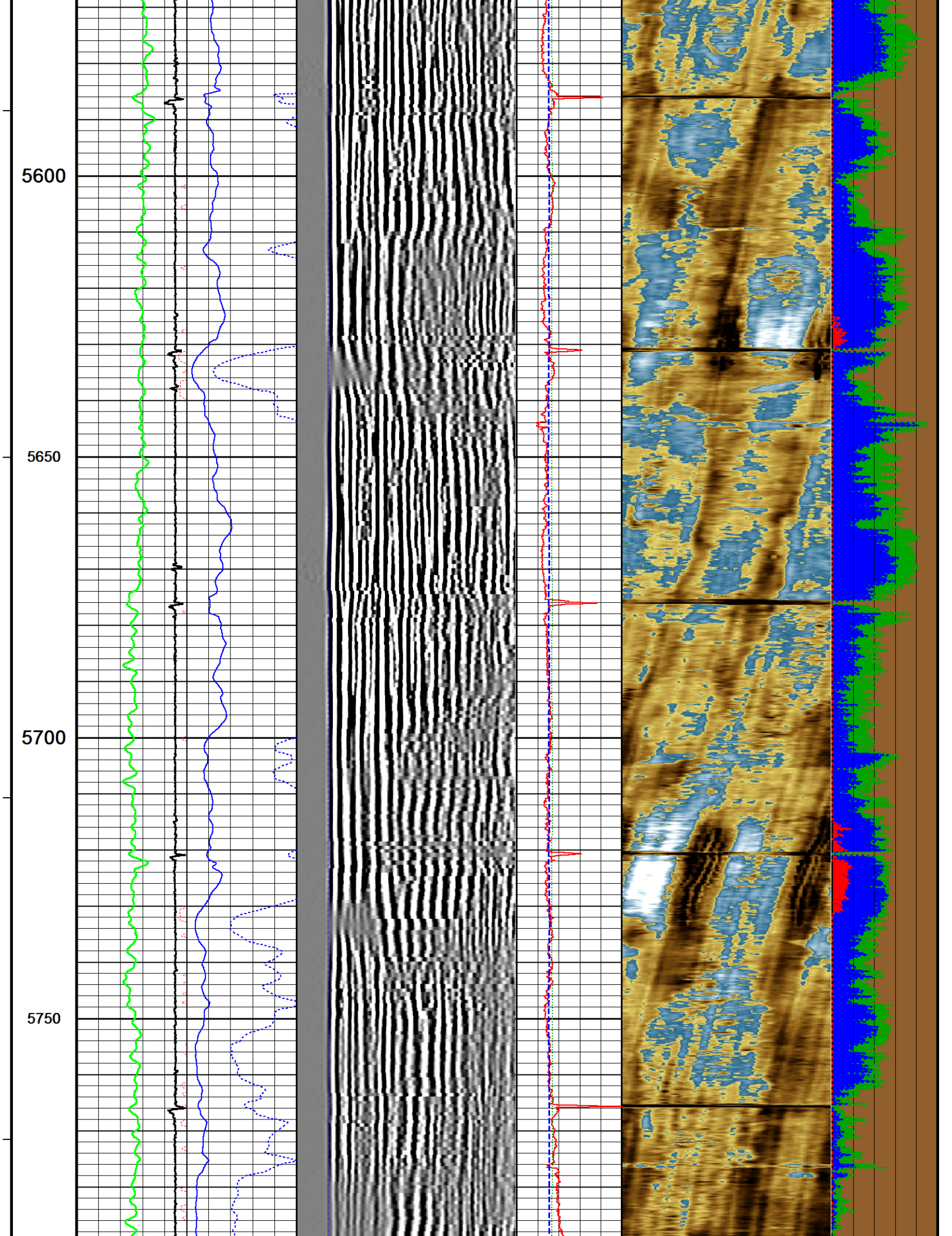


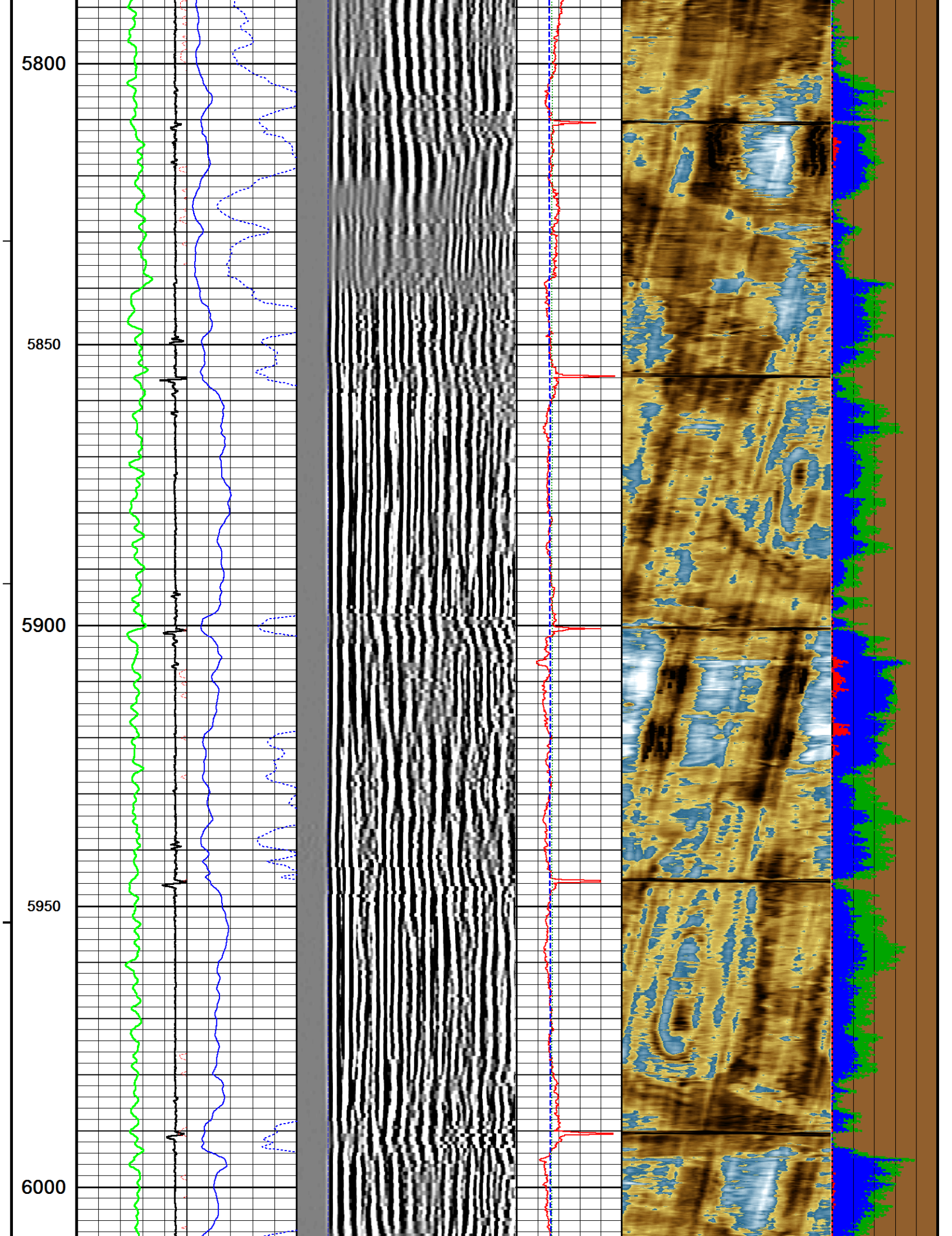


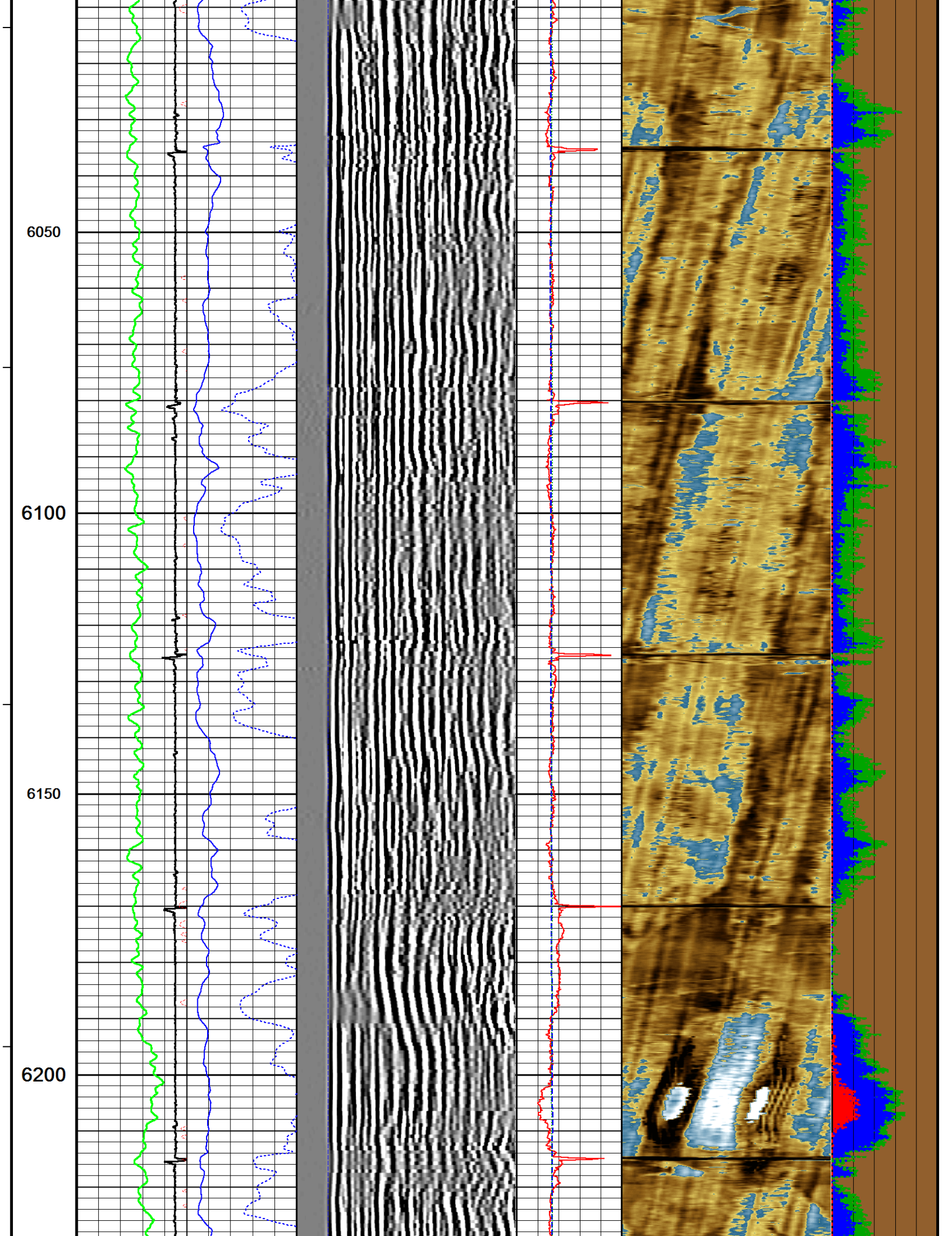










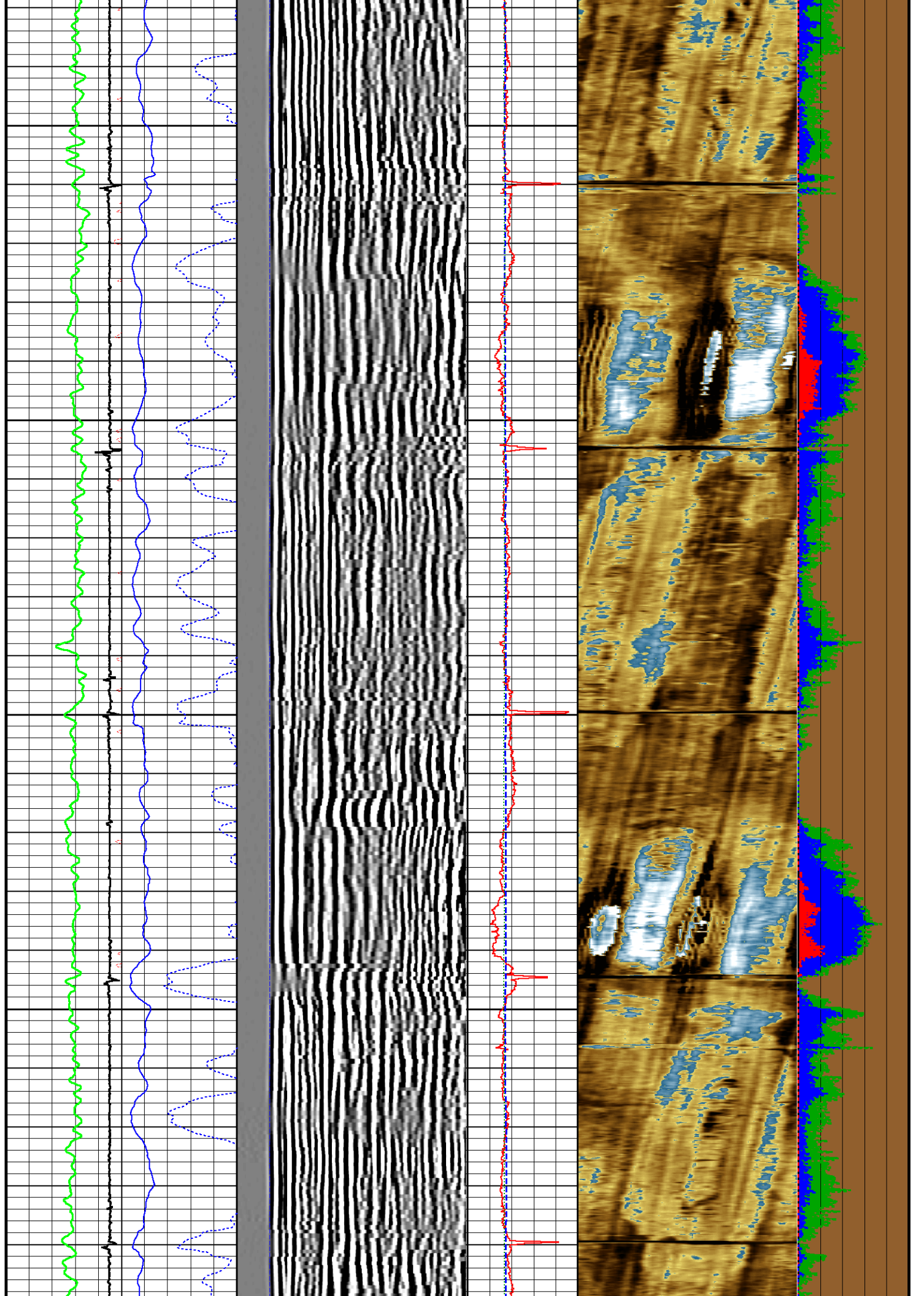


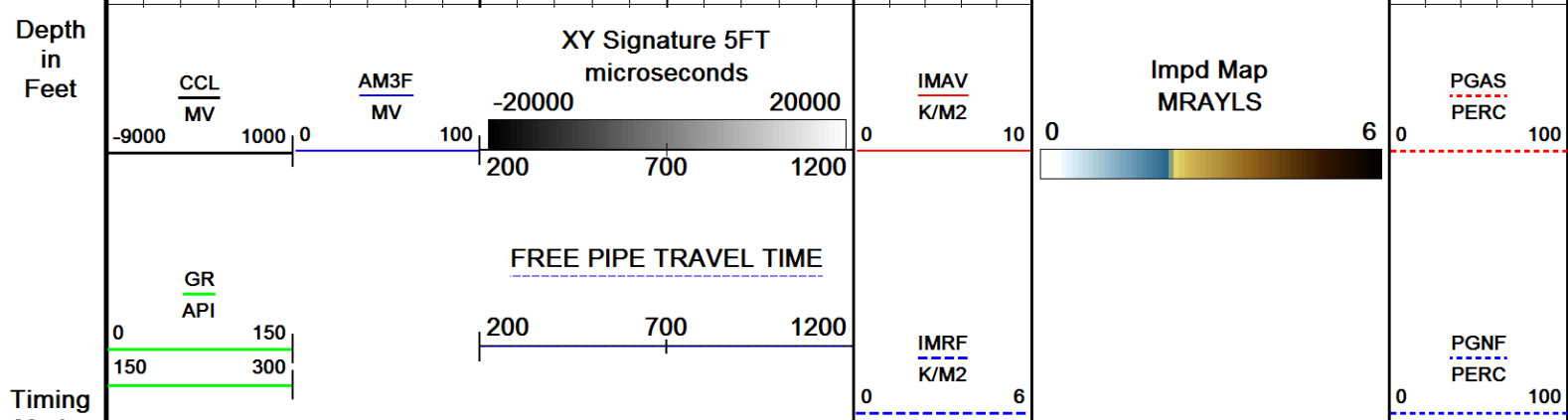
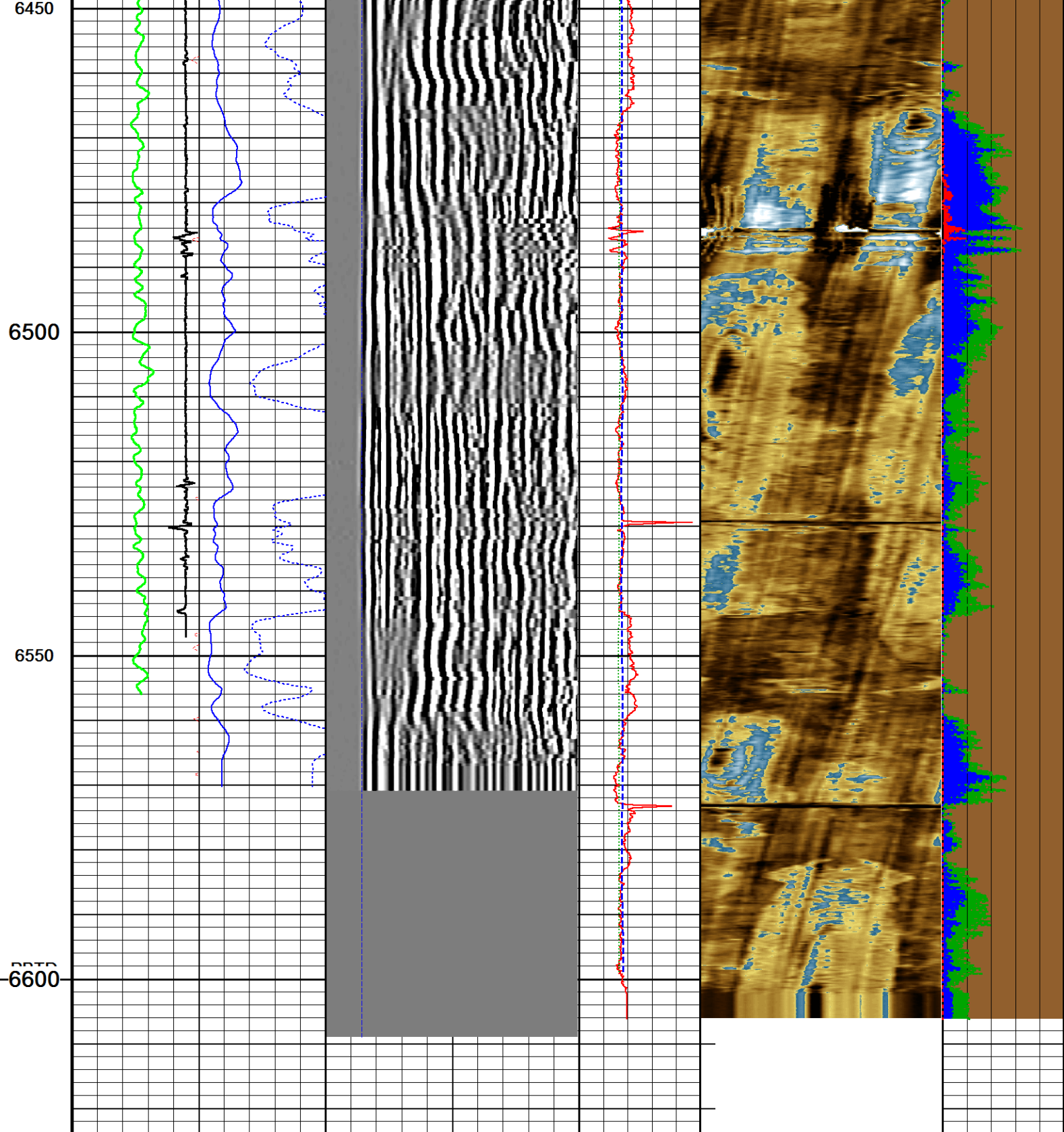
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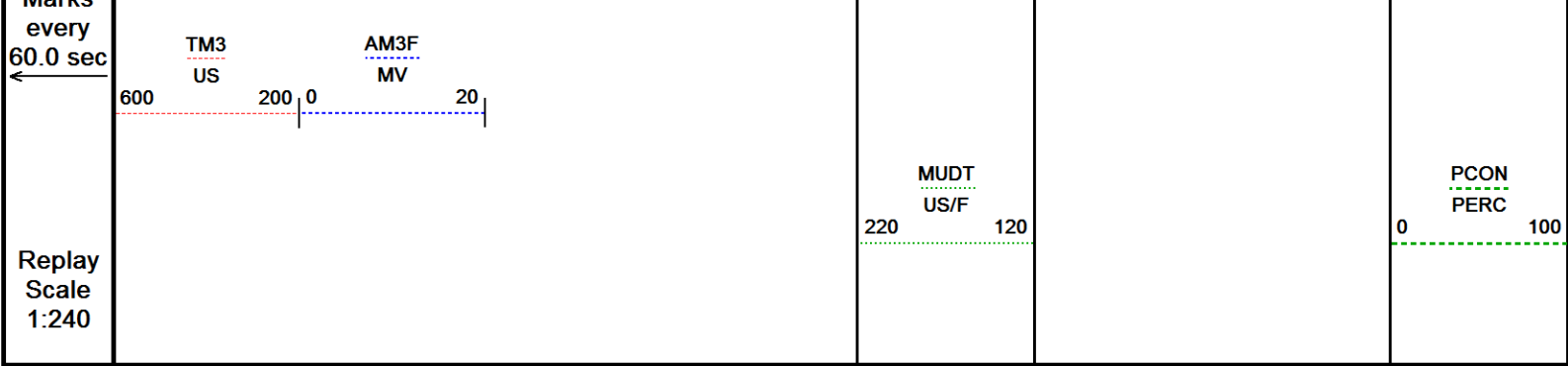
6300

6350

6400







Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 23-FEB-2017 07:18

Filename: C:\Users\le197426\Desktop\EXTRACTION\MICKEY #1\MICKEY #1 MAIN PASS.dta

Recorded on 22-FEB-2017 16:31

System Versions: Logged with 16.05.4955 Processed with 16.05.3841 Plotted with 16.05.3841

↑ MAIN PASS 1:240 ↑

↓ REPEAT PASS 1:240 ↓

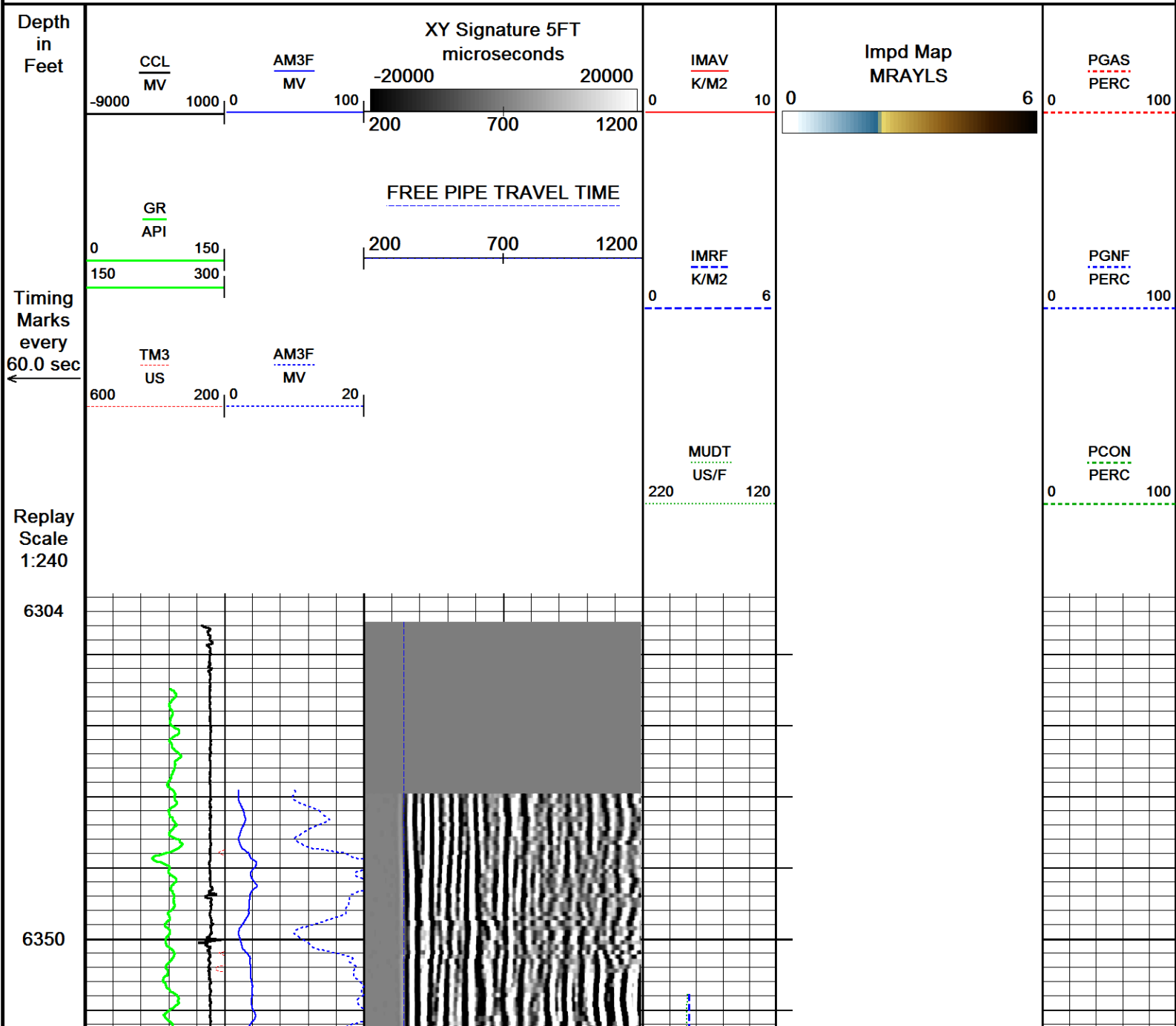
Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 23-FEB-2017 07:18

Filename: C:\Users\le197426\Desktop\EXTRACTION\MICKEY #1\MICKEY #1 REPEAT PASS.dta

Recorded on 22-FEB-2017 16:24

System Versions: Logged with 16.05.4955 Processed with 16.05.3841 Plotted with 16.05.3841

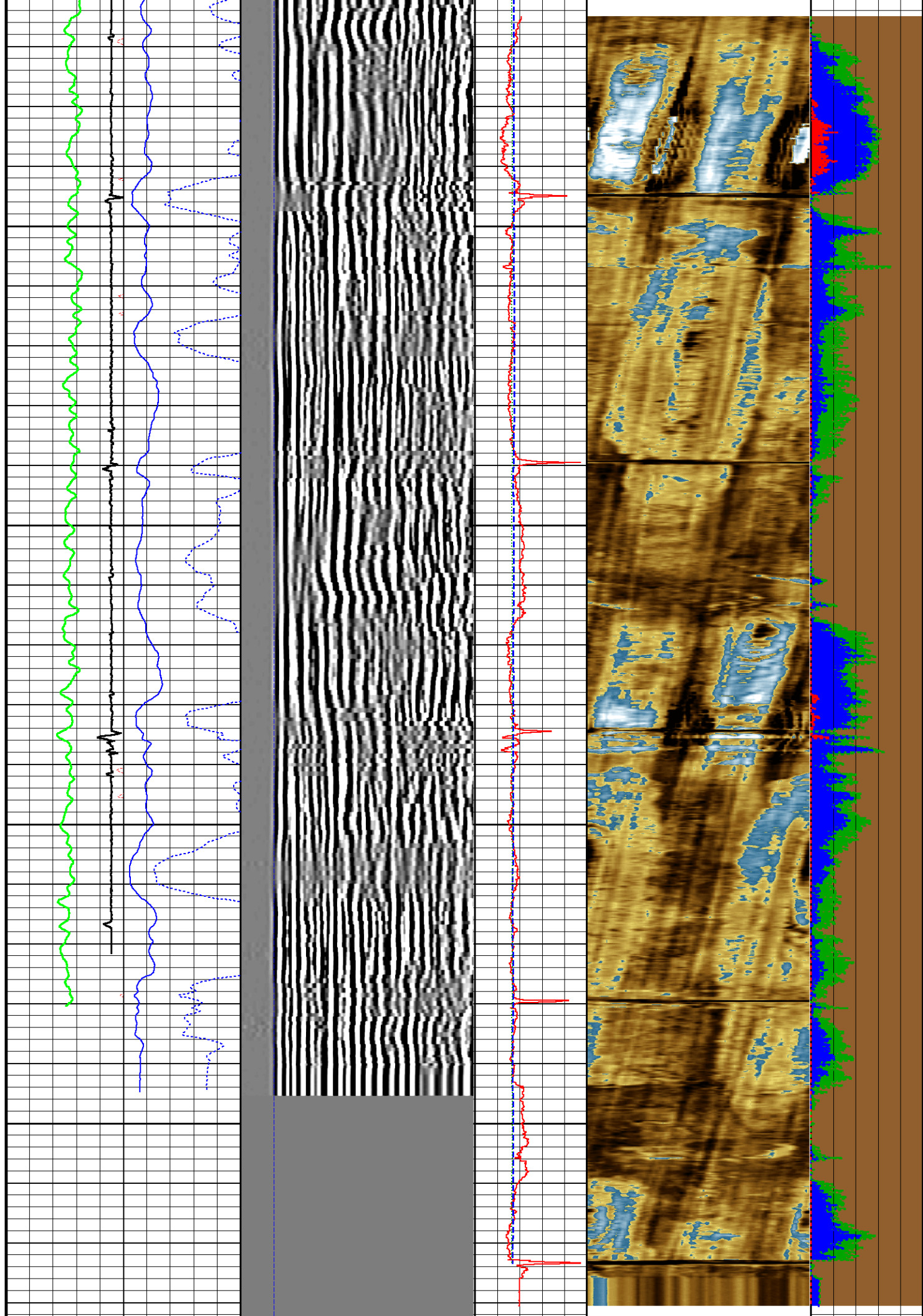


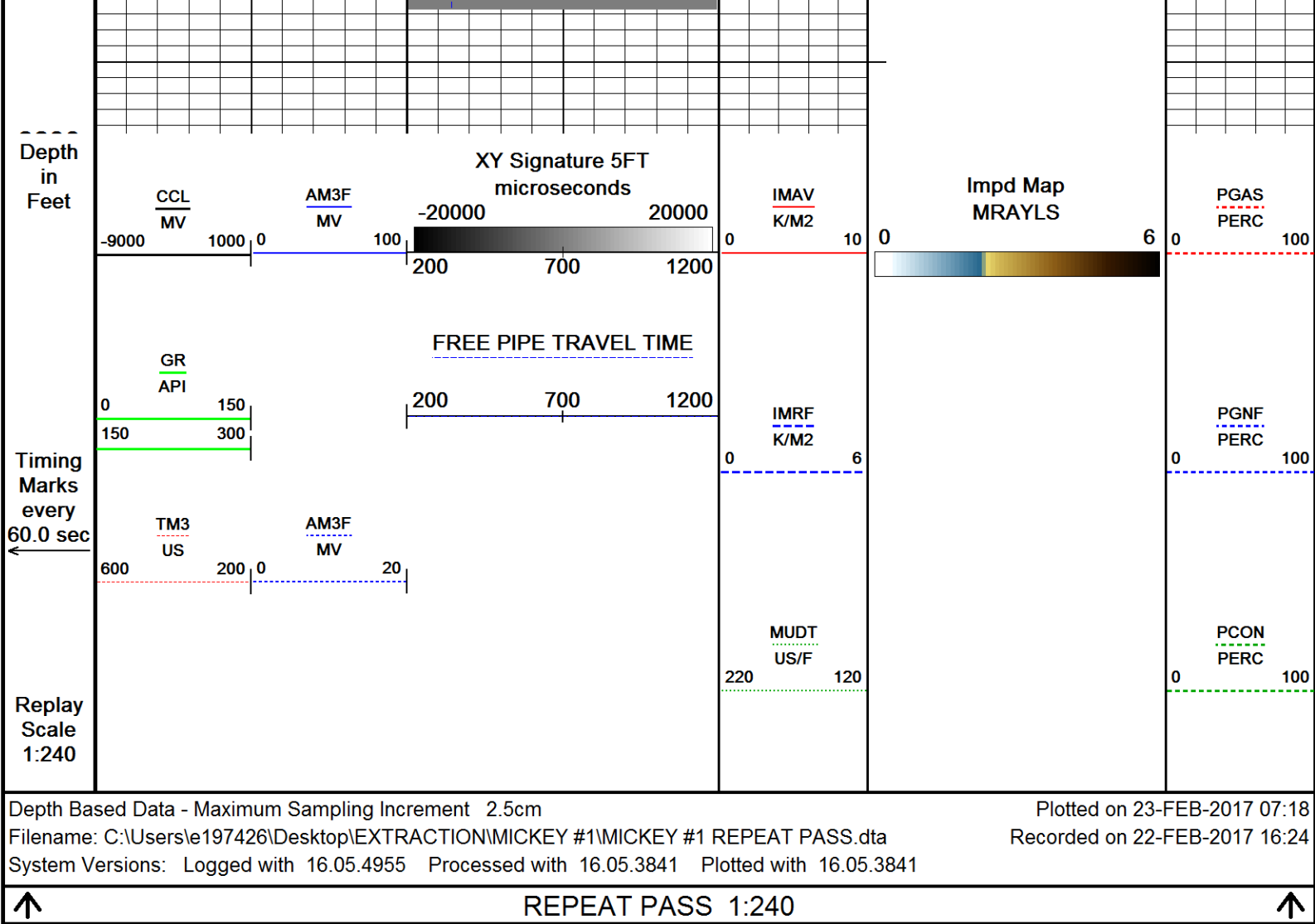
6400

6450

6500

6550





SHOP AND FIELD CALIBRATIONS				
C:\Users\le197426\Desktop\EXTRACTION\MICKEY #1\MICKEY #1 MAIN PASS.dta				
UGR Field Survey Cal UGR-JD 223				
Field Calibration on 08-FEB-2017 09:03				
Gamma Ray Field Survey Calibration				
Tool Type: UGR-JD		Serial No: 223		
Calibrator No: TH-57				
Background	Calibrator	Standard	Units	
107.7	589.0	151.0	CPS	
Delta Counts Per Sec: 481.3		CPS/API = 3.187		
CBT Field Calibration CBT-AA 114				
Field Calibration on 08-FEB-2017 14:41				
Cement Bond Tool Amplitude Field Calibration				
Tool Type	CBT-AA	Serial No	114	
Free Pipe Depth				

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	2.40	0.00
	Free Pipe	72.00	790.20
AMP 5 FT	100 % Bond	1.60	0.00
	Free Pipe	48.00	549.00

CBT Constants CBT-AA 114		Last Edited on 22-FEB-2017 16:31	
Min Ampl 100% Bond	2.00	MV	
Max Ampl 0% Bond	90.00	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	190.0	US/F	
Maximum Attenuation	12.00	DB/F	
3' TT Correction	0.0	US	
Cement Weight	0.00	LB/G	

Ultrasonic Radial Scanner Before Cal		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 22-FEB-2017 16:31

*** 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

** General Settings **

Use General Settings	ON
ZHead Cal Area Ratio	3.70
ZMud Cal Area Ratio	4.00

** Constants **

Thickness Calculated from	Tool
Radius Offset	0.00
Mud Slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z mud at Calibration	1.75 K/M2

Z_mud Outside

1.75 K/M2

Gas Impedance Cutoff

0.38 K/M2

Fluid Impedance Cutoff

2.30 K/M2

Contam Impedance Cutoff

2.70 K/M2

Relative Bearing Rotate

OFF

RB Offset Angle

0.00 DEG

Cement Density

14.00 LB/G

DOWNHOLE EQUIPMENT

C:\Users\le197426\Desktop\EXTRACTION\MICKEY #1\MICKEY #1 MAIN PASS.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 121 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

Swivel Head 55 pin

SWH-CC 163 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 223 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

Flexible Joint, URS, 55 Pin

FTP-FA 131 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in



59.48 ft CCL - Collar Locator

51.39 ft GR - Gamma Ray

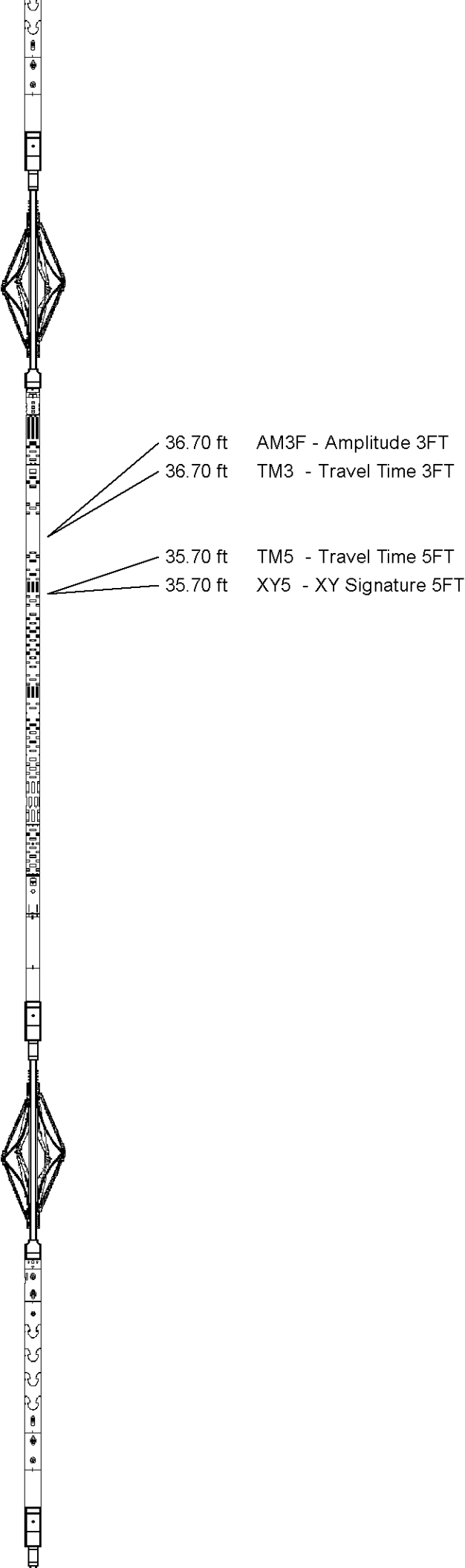
55 pin Roller Centralizer
CEN-XA 132 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Cement Bond Tool
CBT-AA 114 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in

55 pin Roller Centralizer
CEN-XA 142 LG: 4.49 ft WT: 86.0 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 197 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

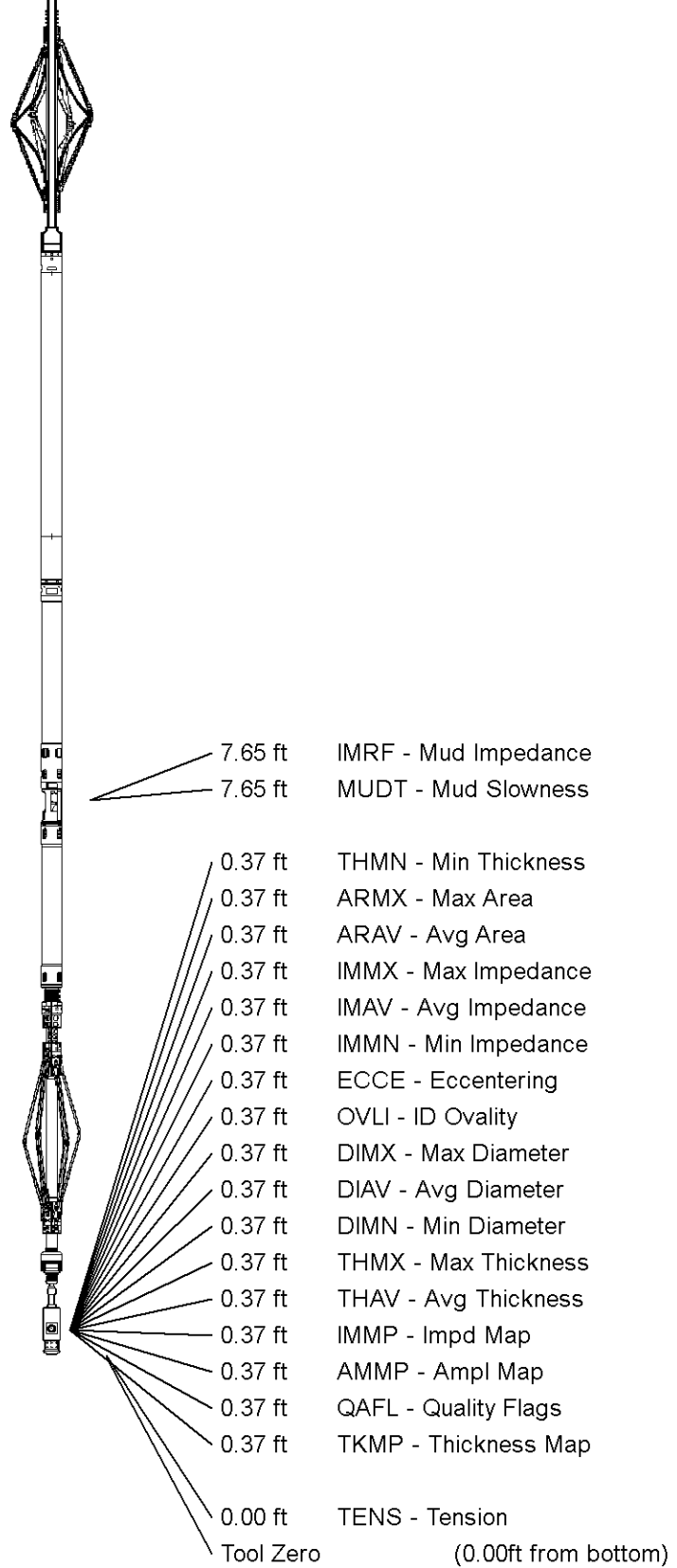


URS Electronics Cartridge
UCC-AA 195 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section
USS-AB 127 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: 65.13 ft Weight: 1122.2 lb



All measurements relative to tool zero.

COMPANY	EXTRACTION OIL AND GAS
WELL	MICKEY #1
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	UNITED STATES / COLORADO

Elevation Kelly Bushing	feet	Bottom Log Interval	6600.00	feet
Elevation Drill Floor	feet	Depth Driller		feet

Elevation Ground Level	feet	Depth Logger	6600.00	feet
<div><div><div>SECUREVIEW</div><div>ULTRAVIEW / BONDVIEW</div><div>CEMENT ANALYSIS</div></div><div><div>Weatherford[®]</div></div></div>				