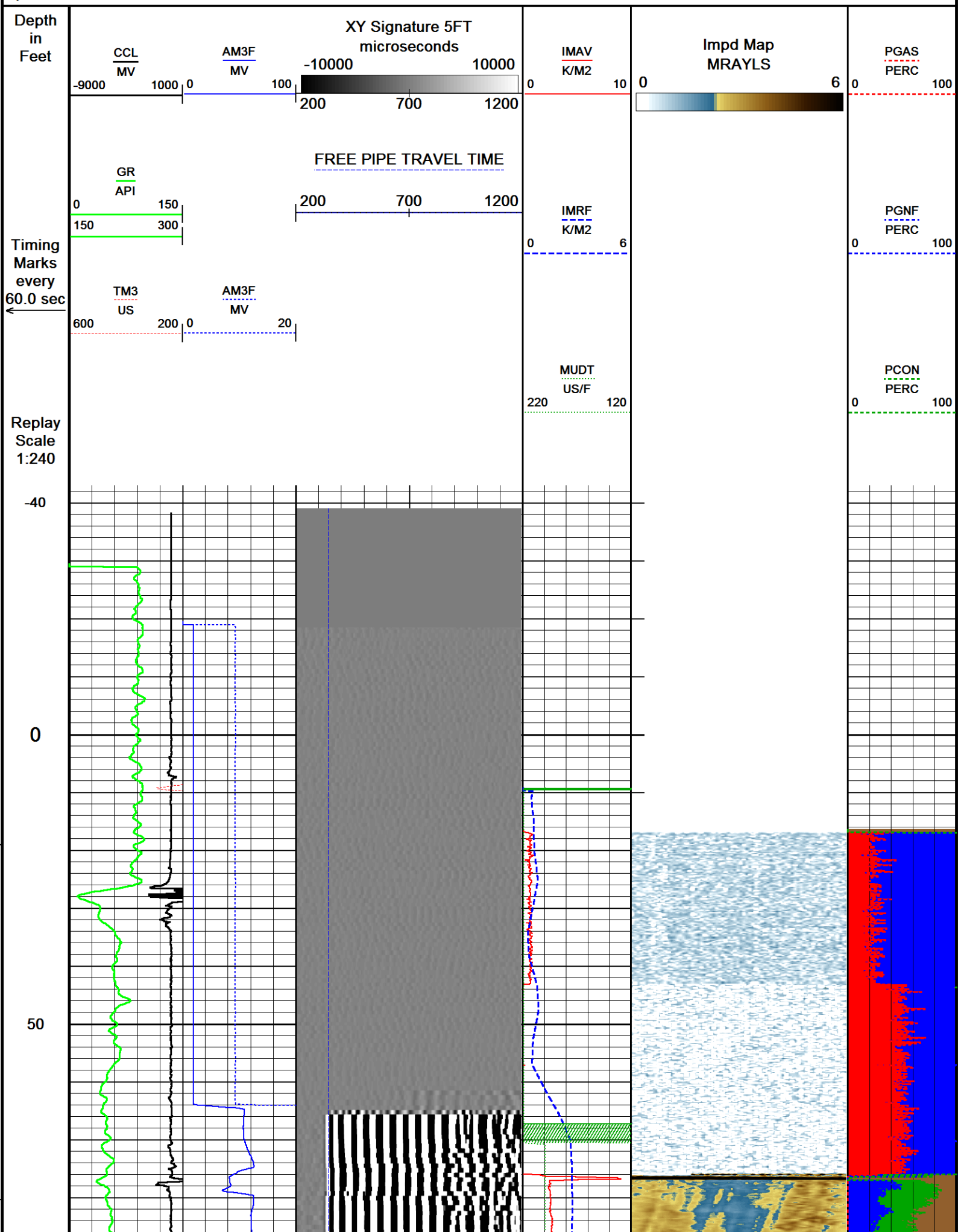
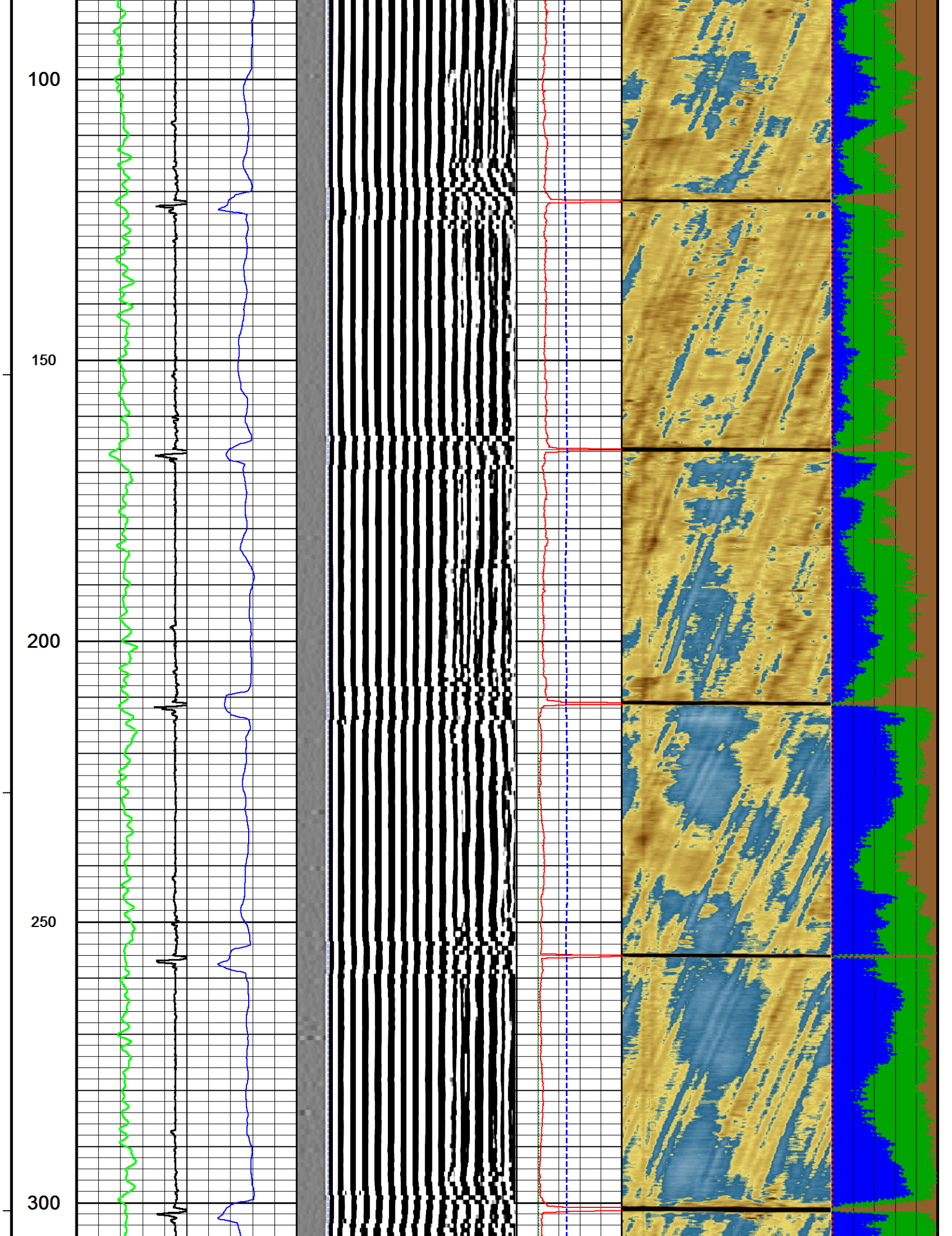
										SECUREVIEW													
Weatherford®										ULTRAVIEW / BONDVIEW													
										CEMENT ANALYSIS LOG													
COMPANY										EXTRACTION OIL & GAS													
WELL										HFE #4													
FIELD										WATTENBERG													
PROVINCE/COUNTY										WELD													
COUNTRY/STATE										UNITED STATES / COLORADO													
LOCATION										SWSW S22 T4N R68W													
SEC 22		TWP 4N		RGE 68W		Other Services																	
Latitude		Longitude												Elevations:		feet							
API Number		05-123-4477400												KB		4946.00							
														DF									
														GL		4918.00							
Permanent Datum GL, Elevation 4918 feet																							
Log Measured From KB, 28.00 feet above Permanent Datum																							
Drilling Measured From KB																							
Date		08-SEP-2017												PERFORATION RECORD									
Run Number		ONE		Shot		Number		Depth From		Depth To													
Service Order		7145-191997968		Density		of Shots		feet		feet													
Type Log		URS / CBT																					
Depth Driller																							
Depth Logger		6500.00		feet																			
Top Log Interval		0.00		feet																			
Bottom Log Interval		6500.00		feet																			
Hole Fluid Type		WATER BASED																					
Hole Fluid Level		100.00		feet																			
Restriction ID		4.778		inches		Gun Type																	
Max Recorded Temp		185.00		deg F		Gun Size																	
Well Head Pressure		0.00		psi		CASING / TUBING RECORD																	
Well Head Equipment		N/A		Size		Weight		Depth From		Depth To													
Time Well Ready		ON ARRIVAL		inches		pounds/ft		feet		feet													
Time Logger Bottom		7:30		5.500		20.00		0.00		16000.00													
Unit		14122																					
Equipment Name		WSS-E																					
Base		CASPER																					
Recorded By		K. HUSETH																					
Witnessed By		NOT WITNESSED																					

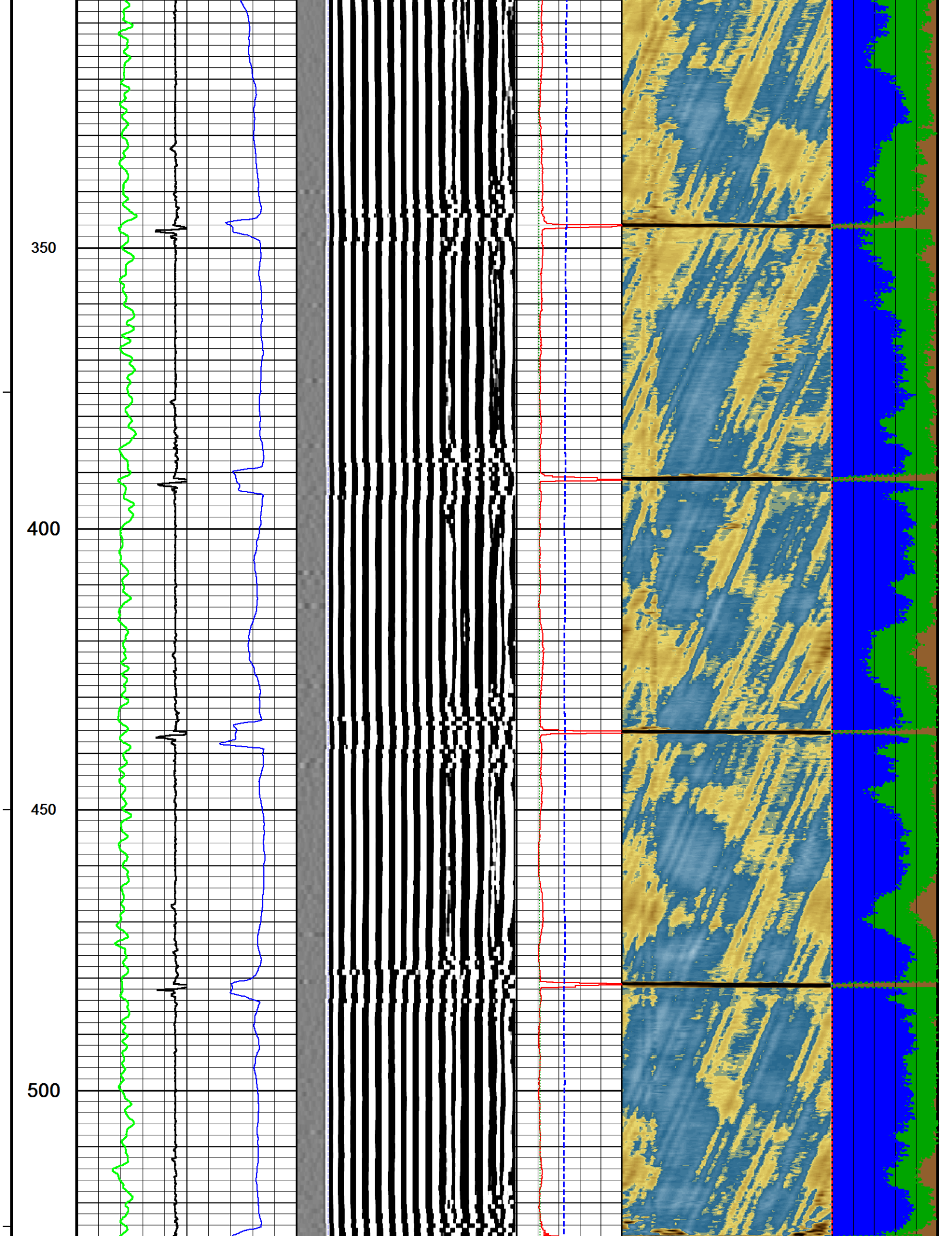
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
PRODUCTION	P-110		5.500	0.00	16000.00	20.00

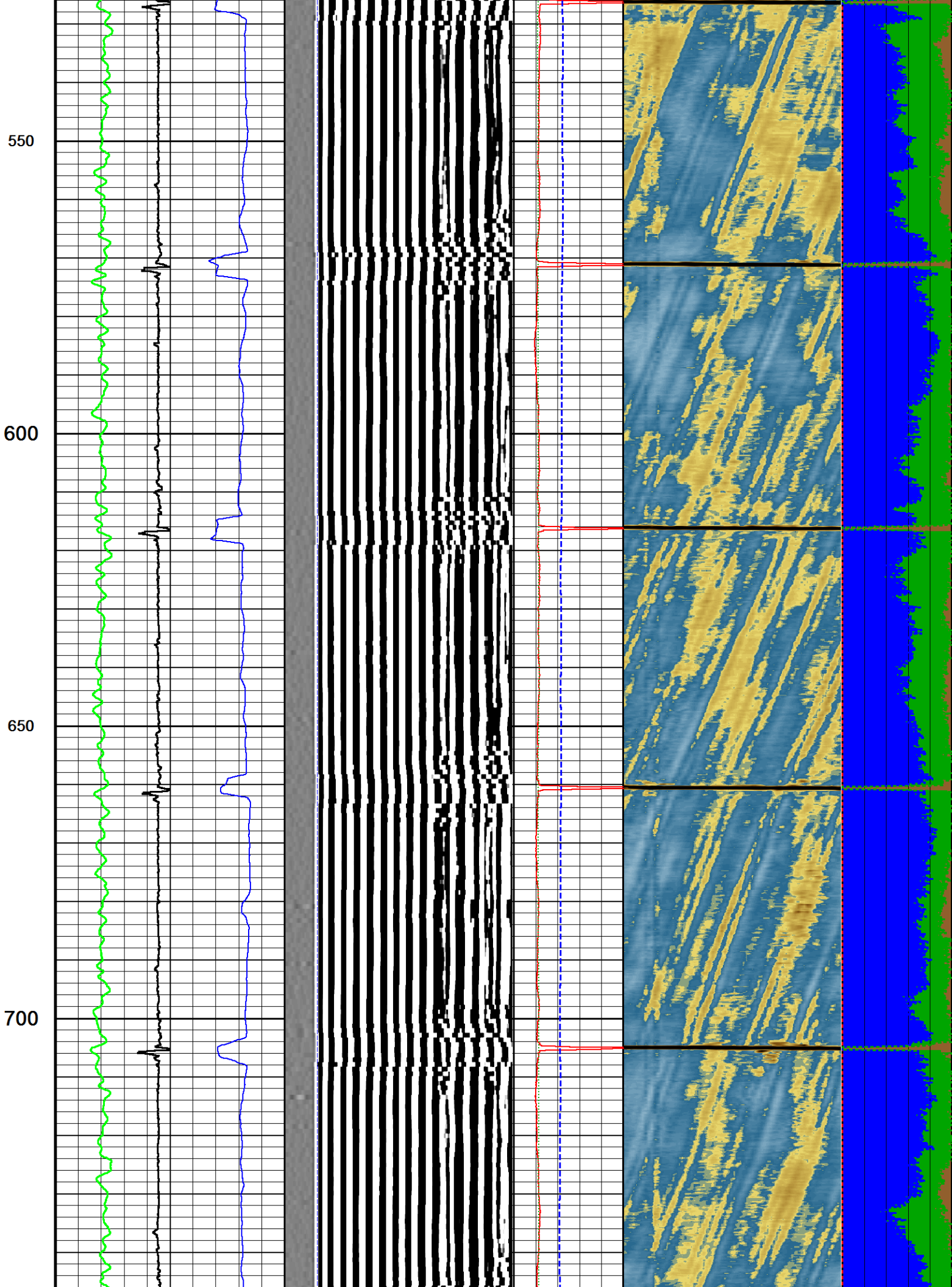
REMARKS
SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO RIG KB @ 28 FT ABOVE GROUND LEVEL
100% STANDARD FREE PIPE AMPLITUDE IN 5.5 INCH CASING IS 72 mV

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.

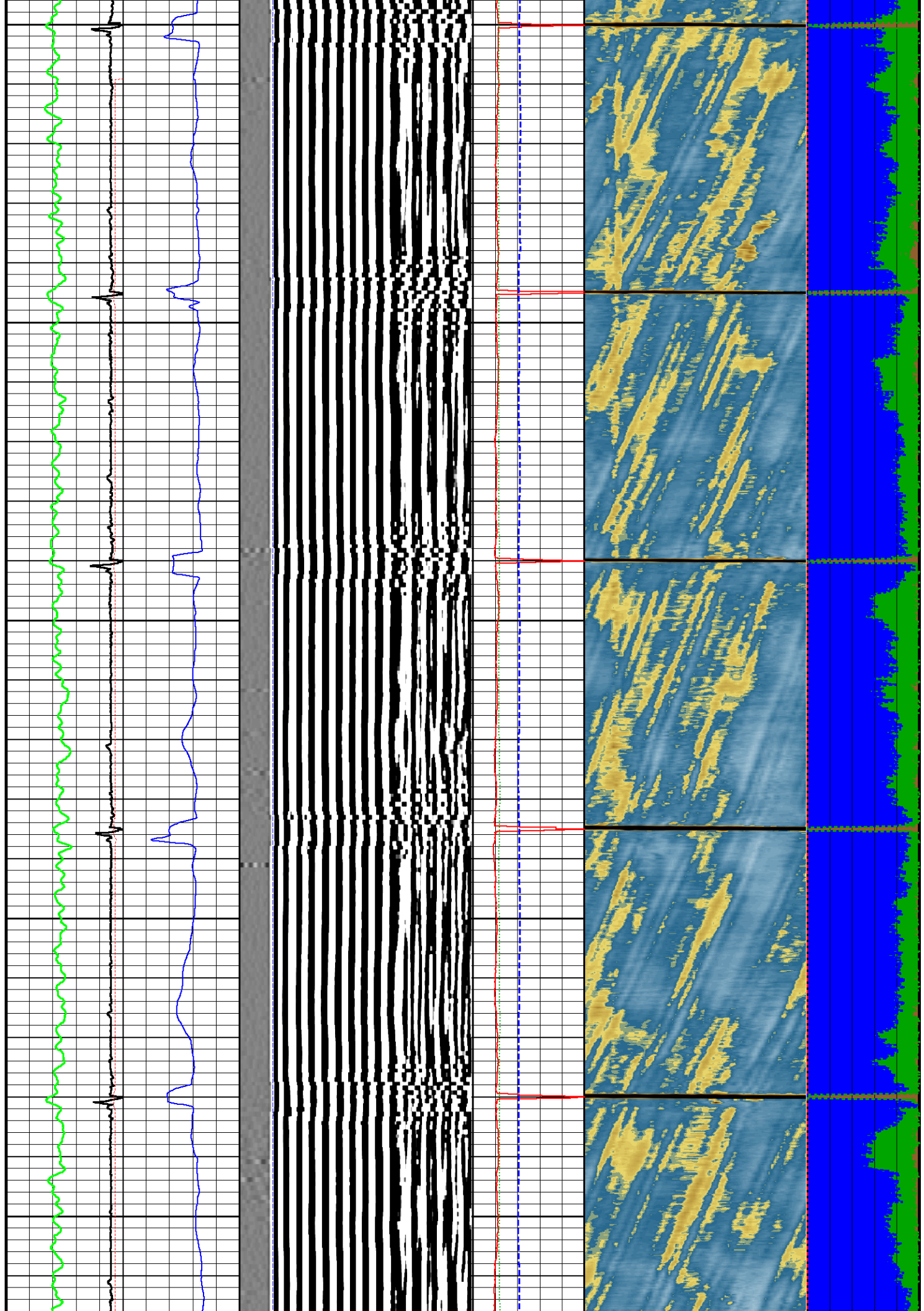


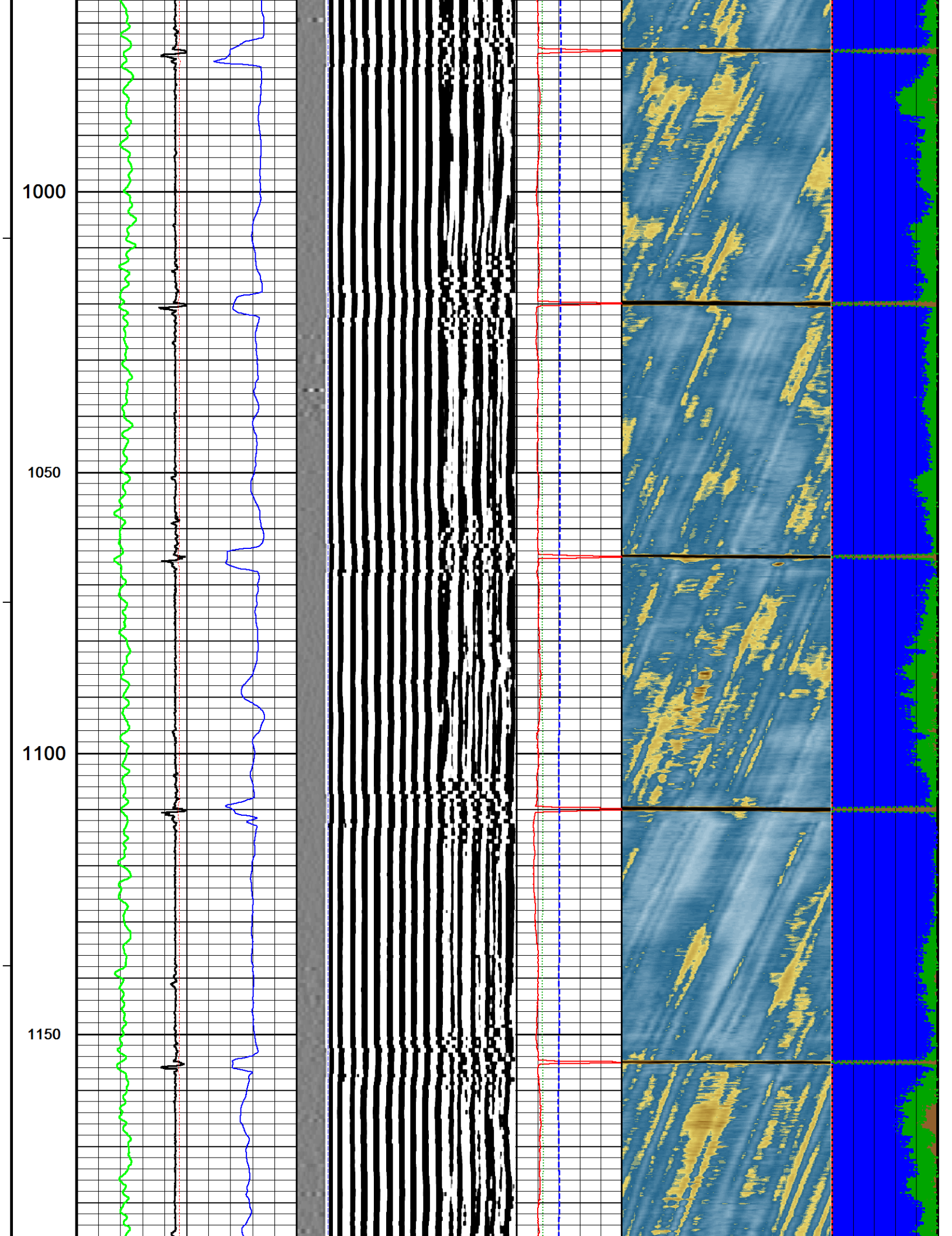


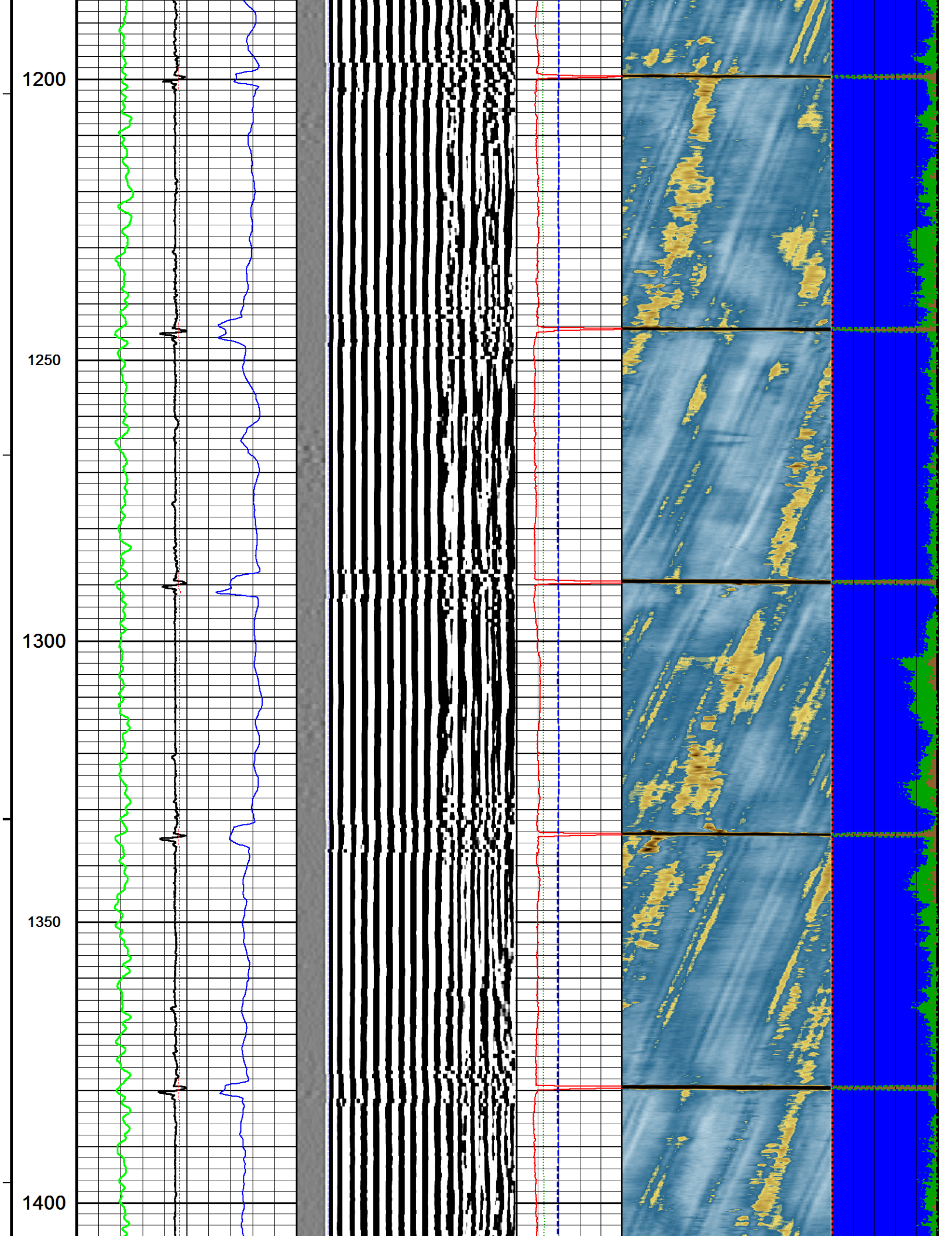


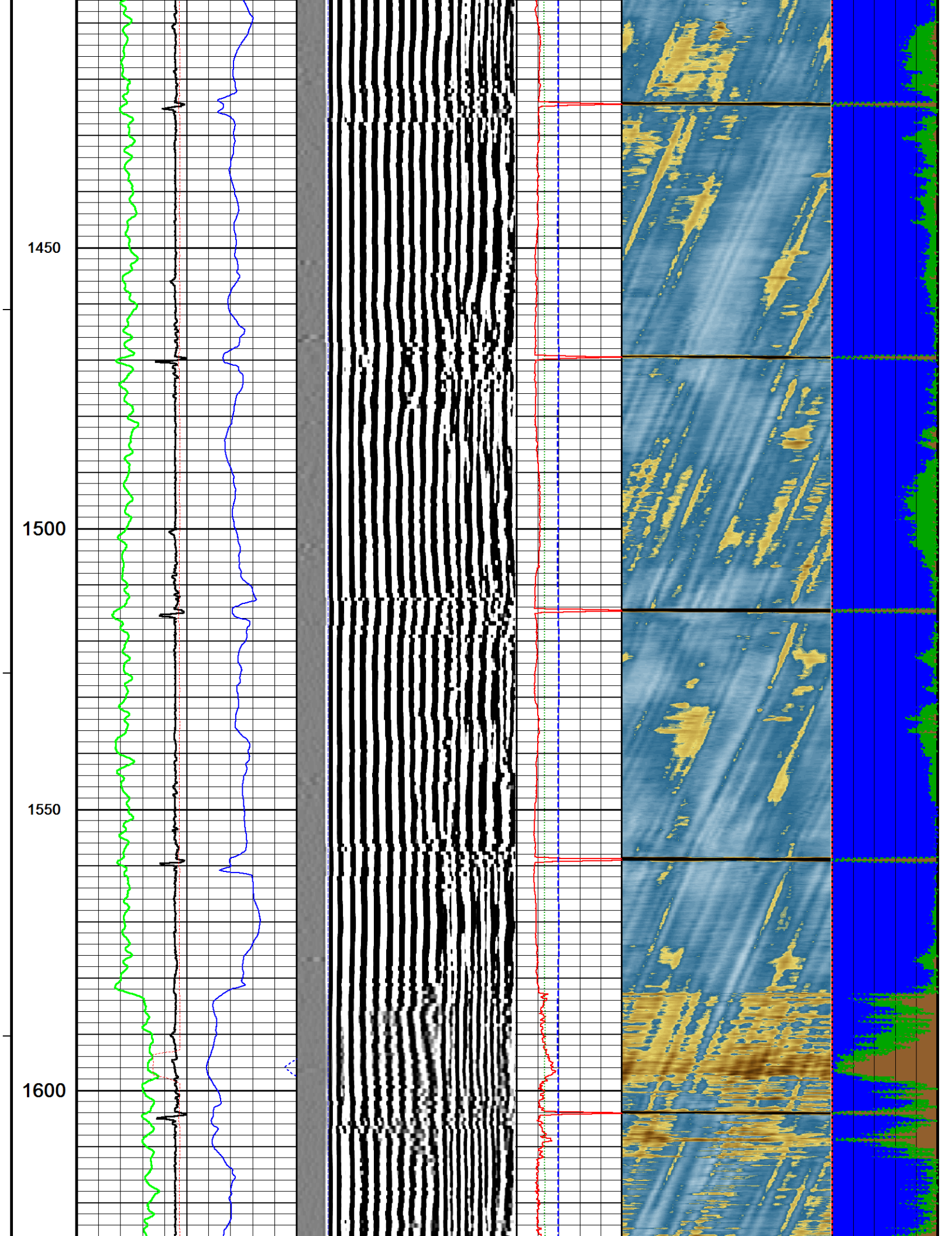


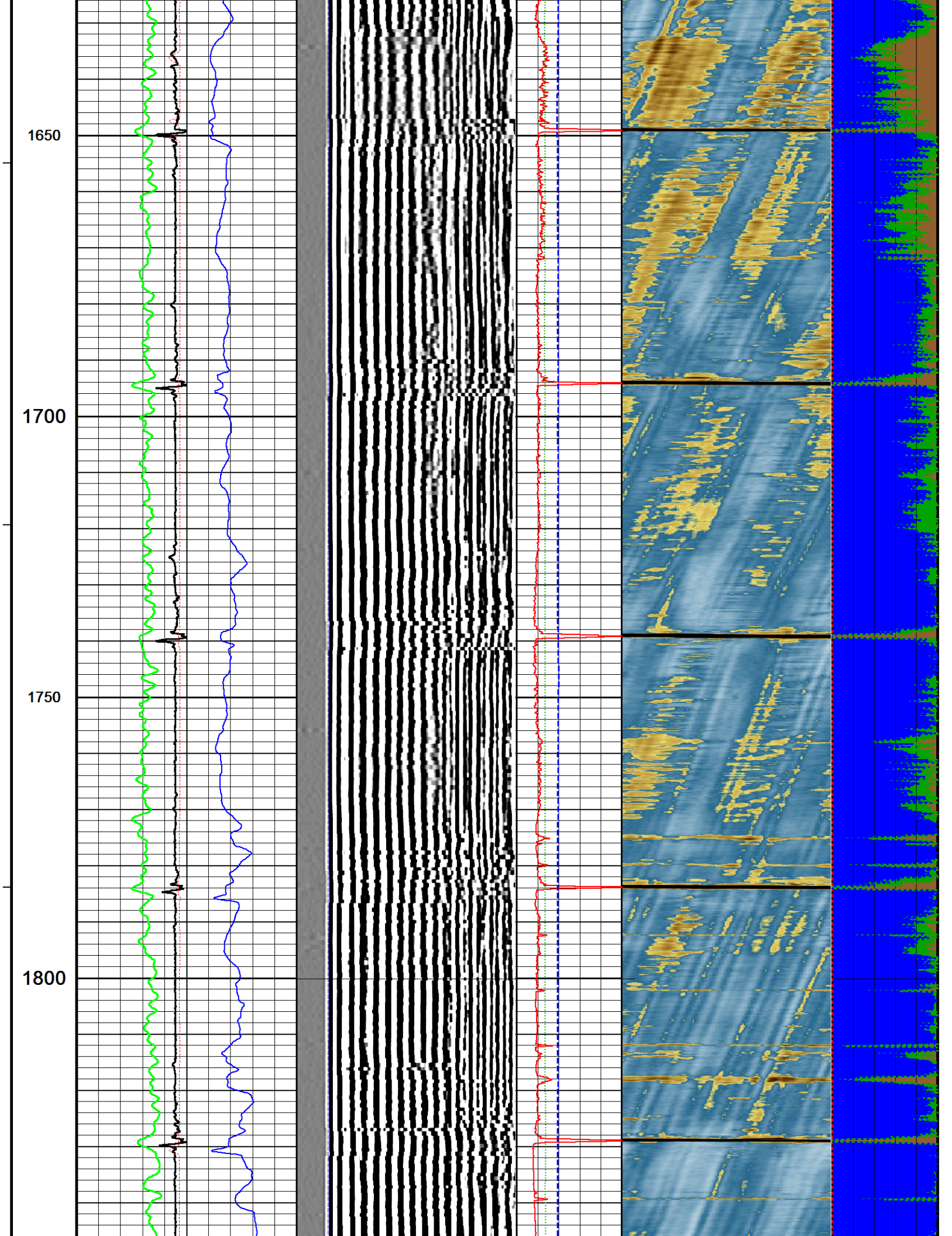
750
800
850
900
950

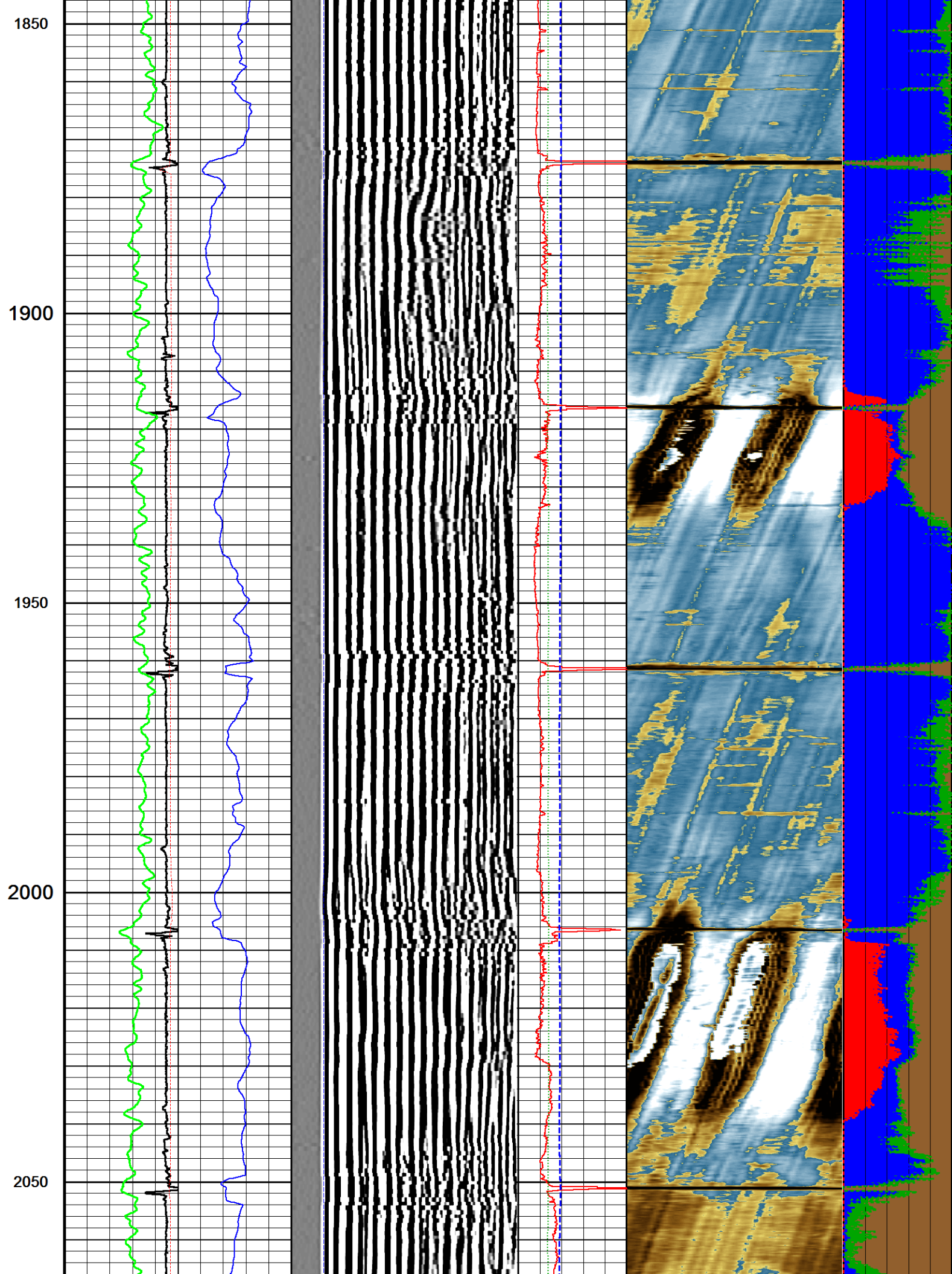


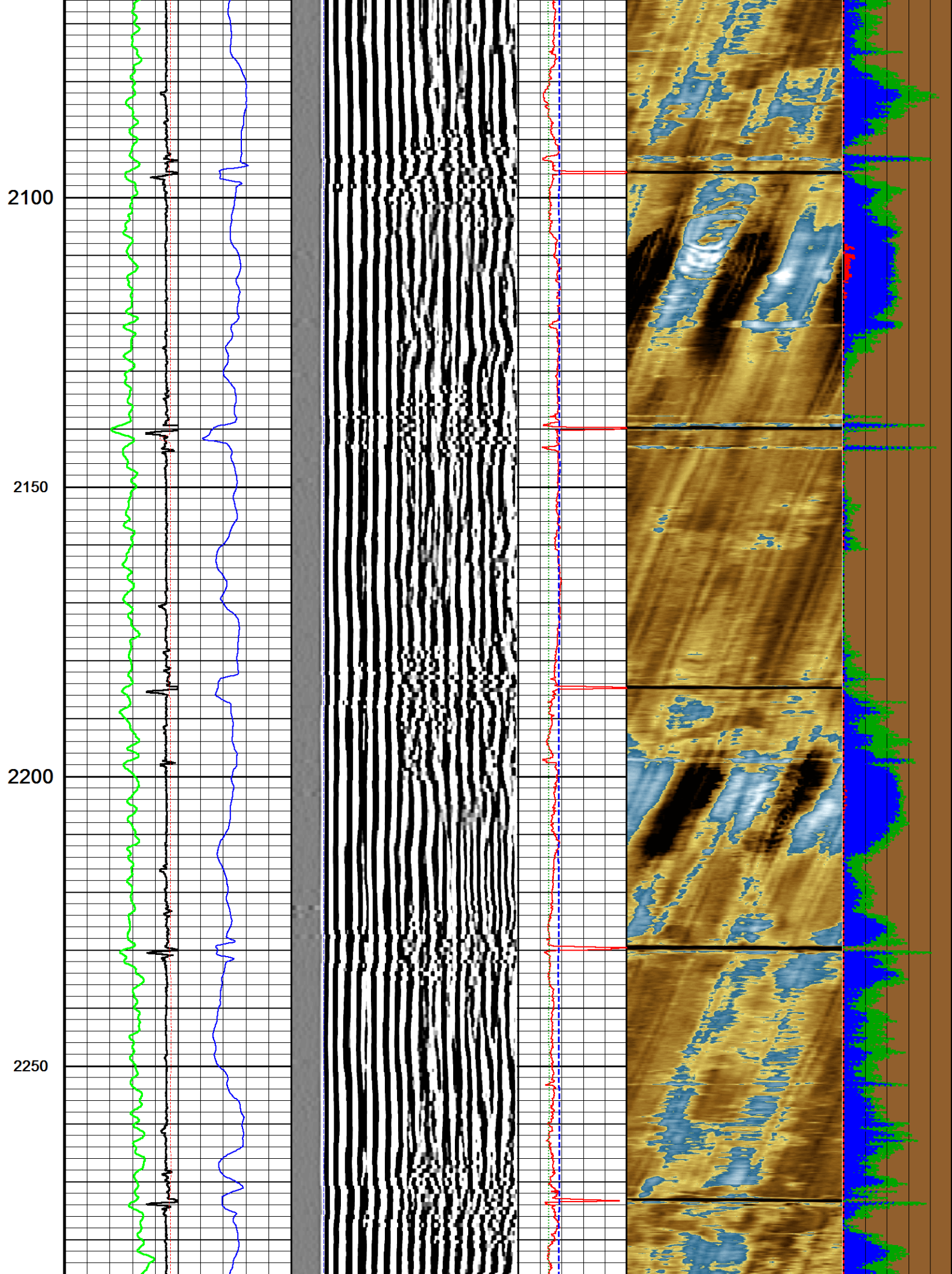


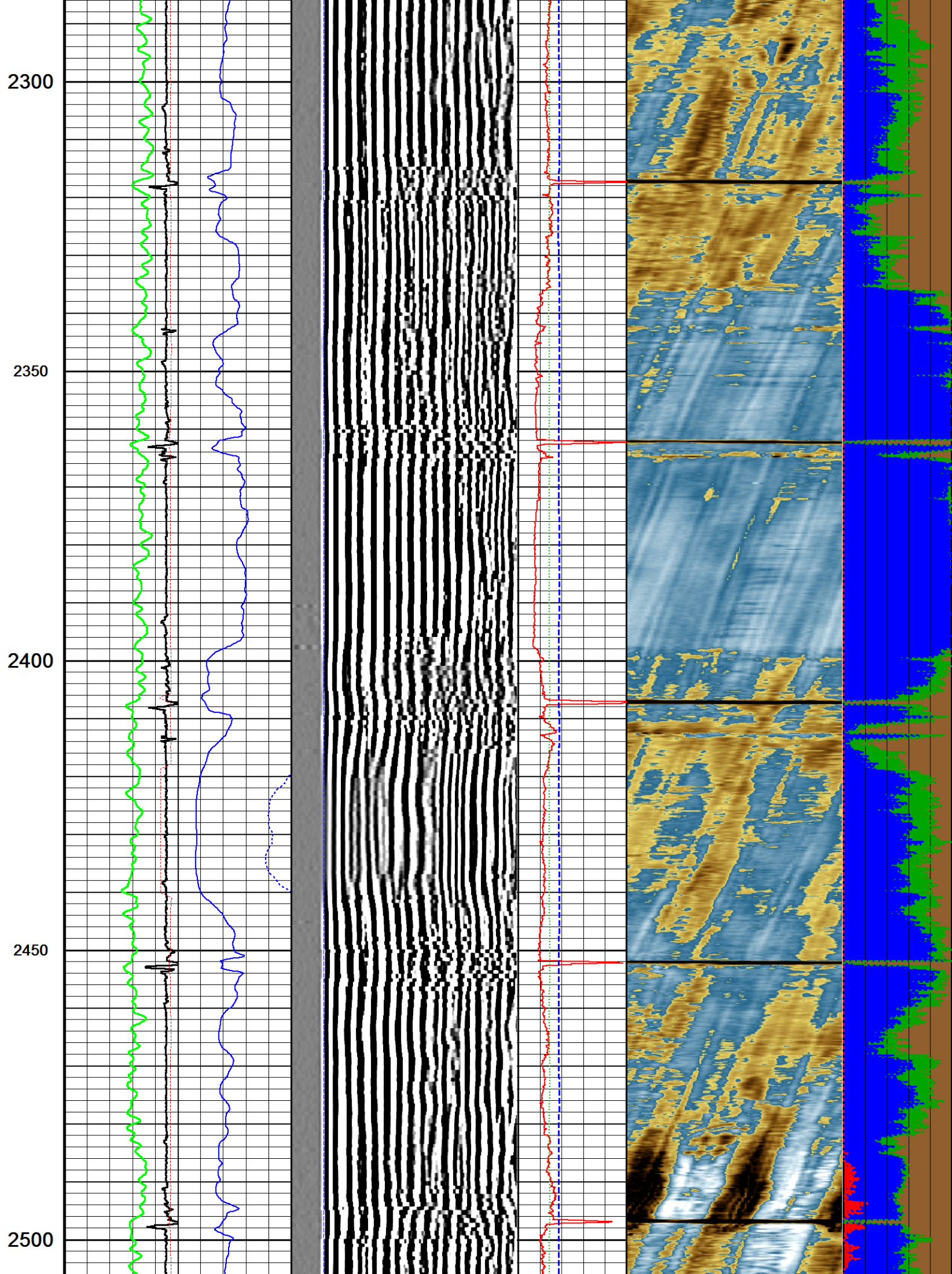


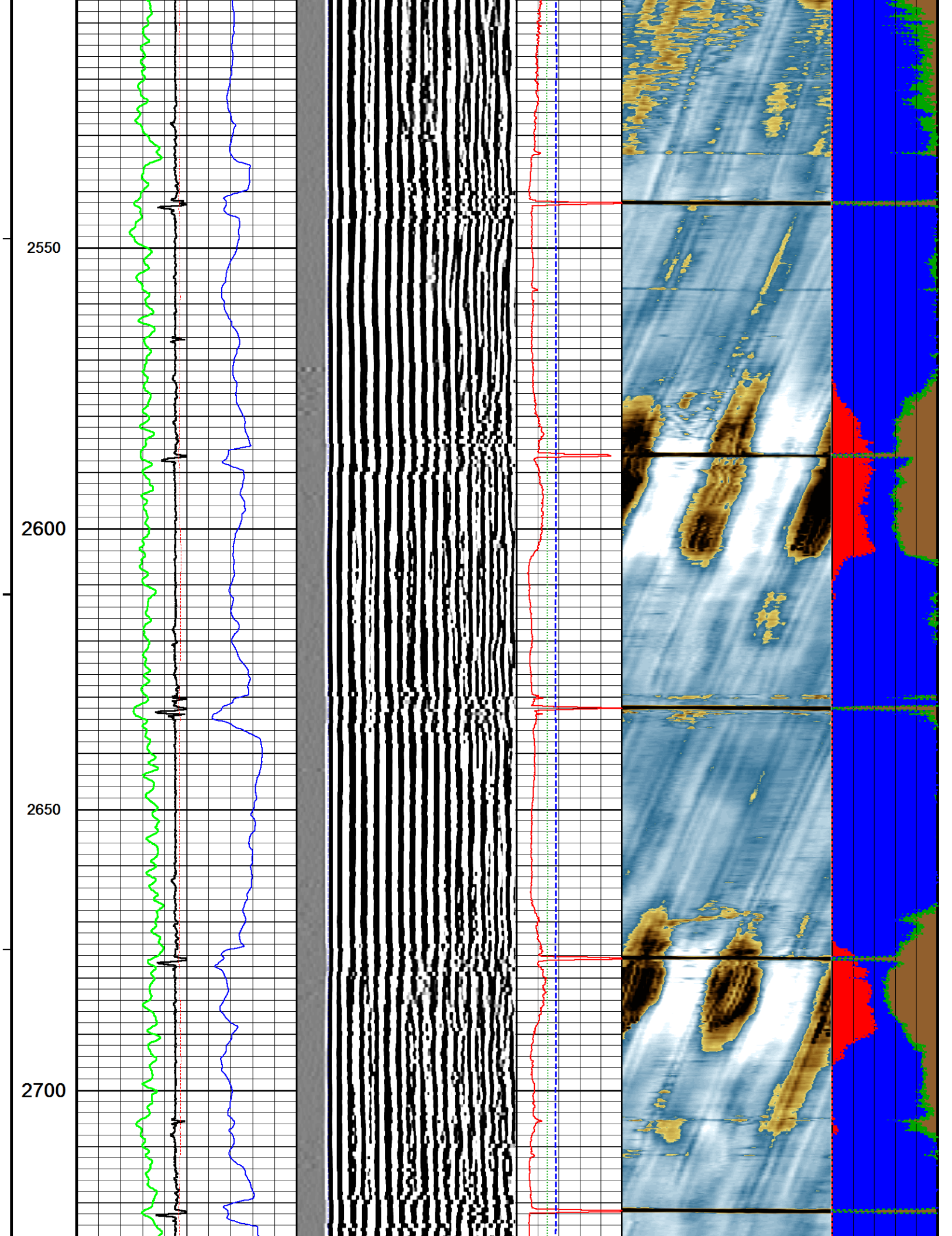


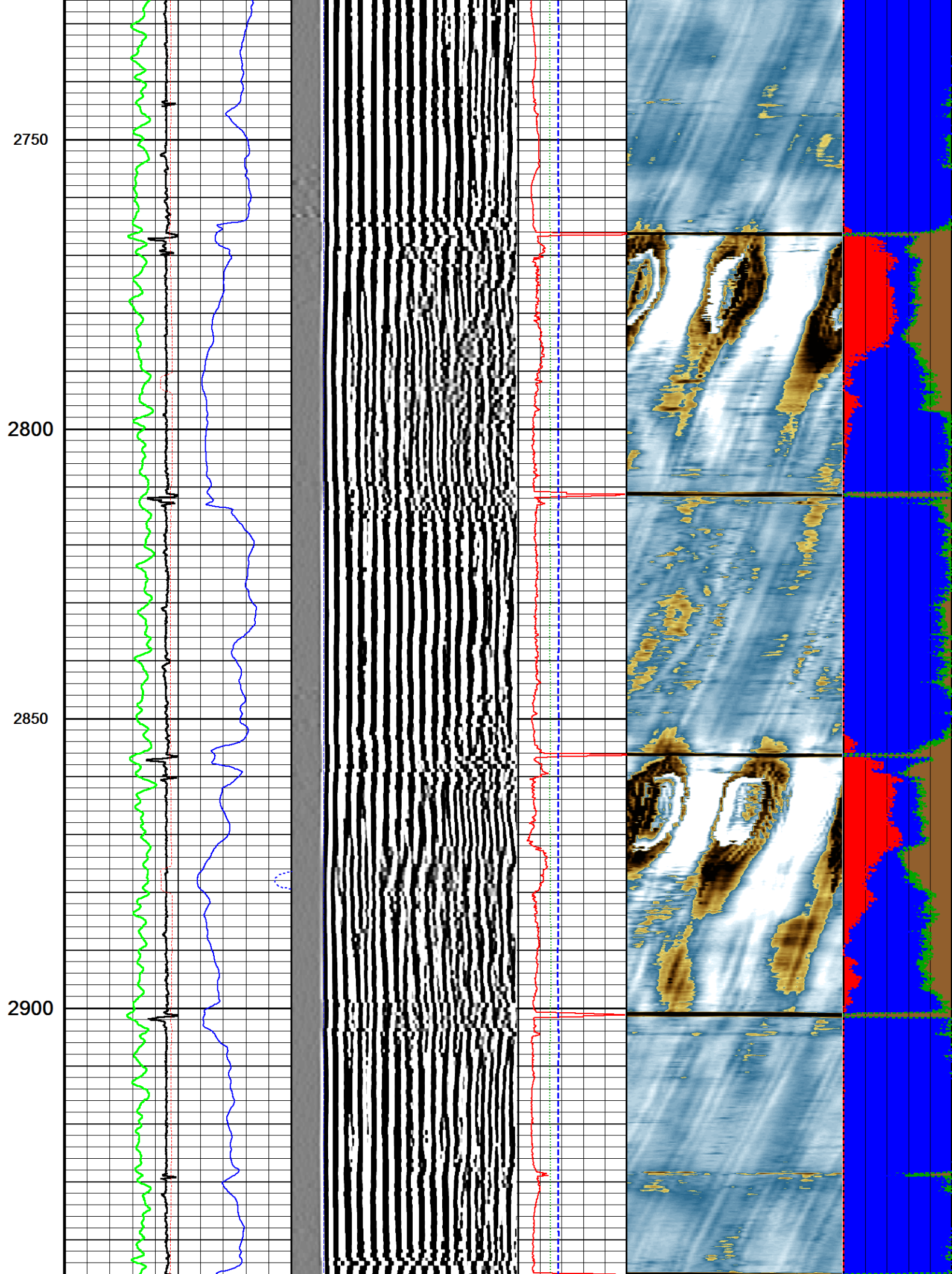


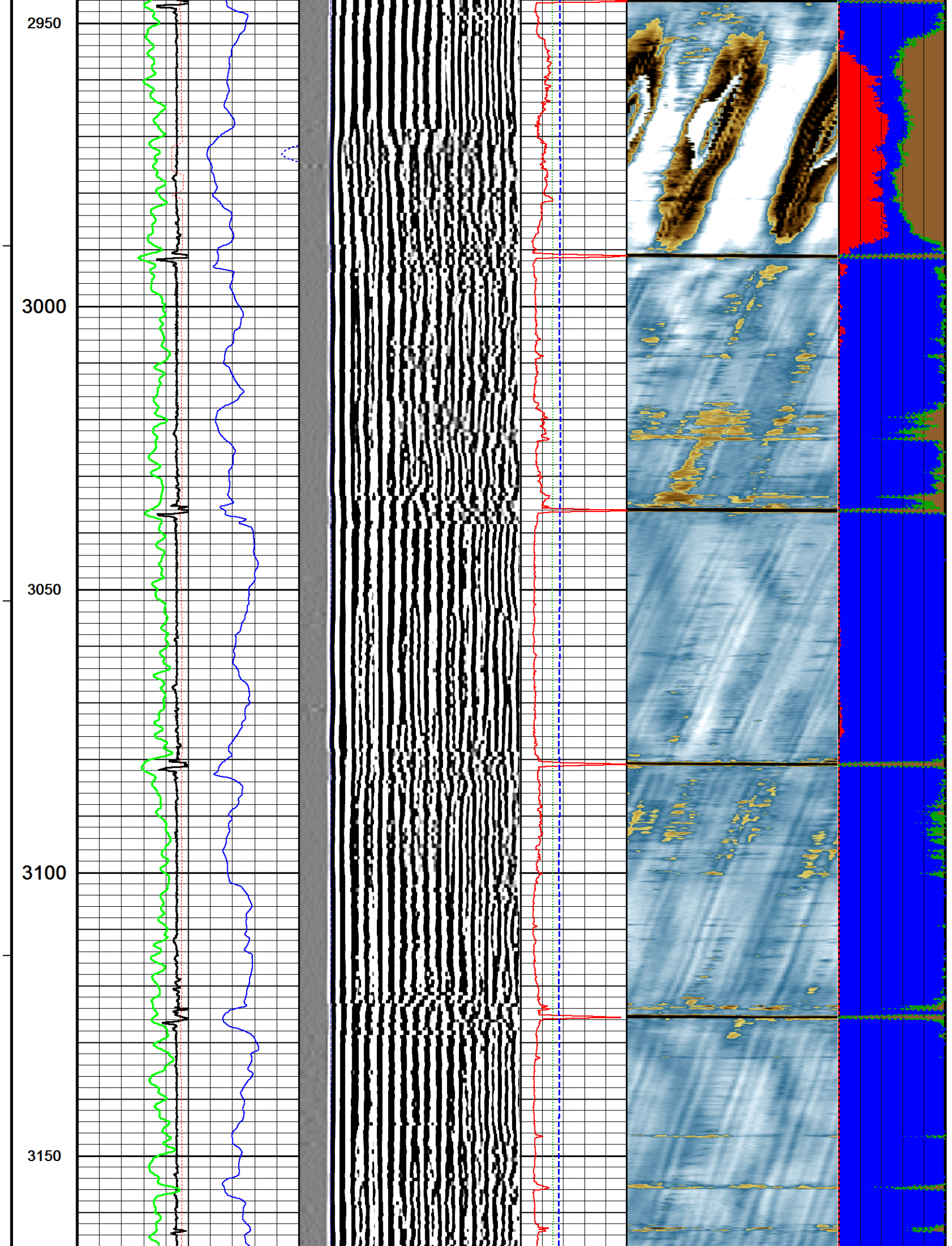


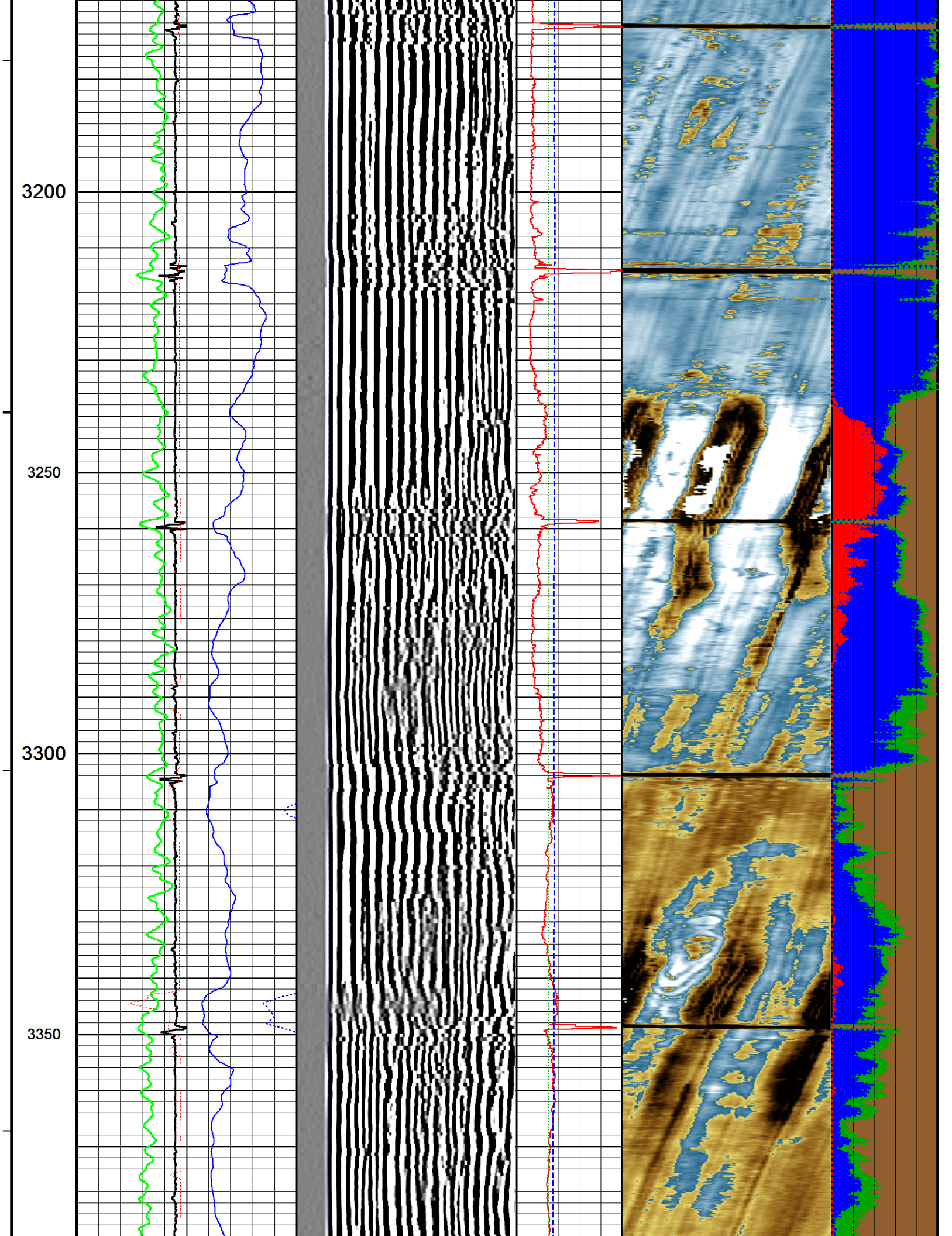


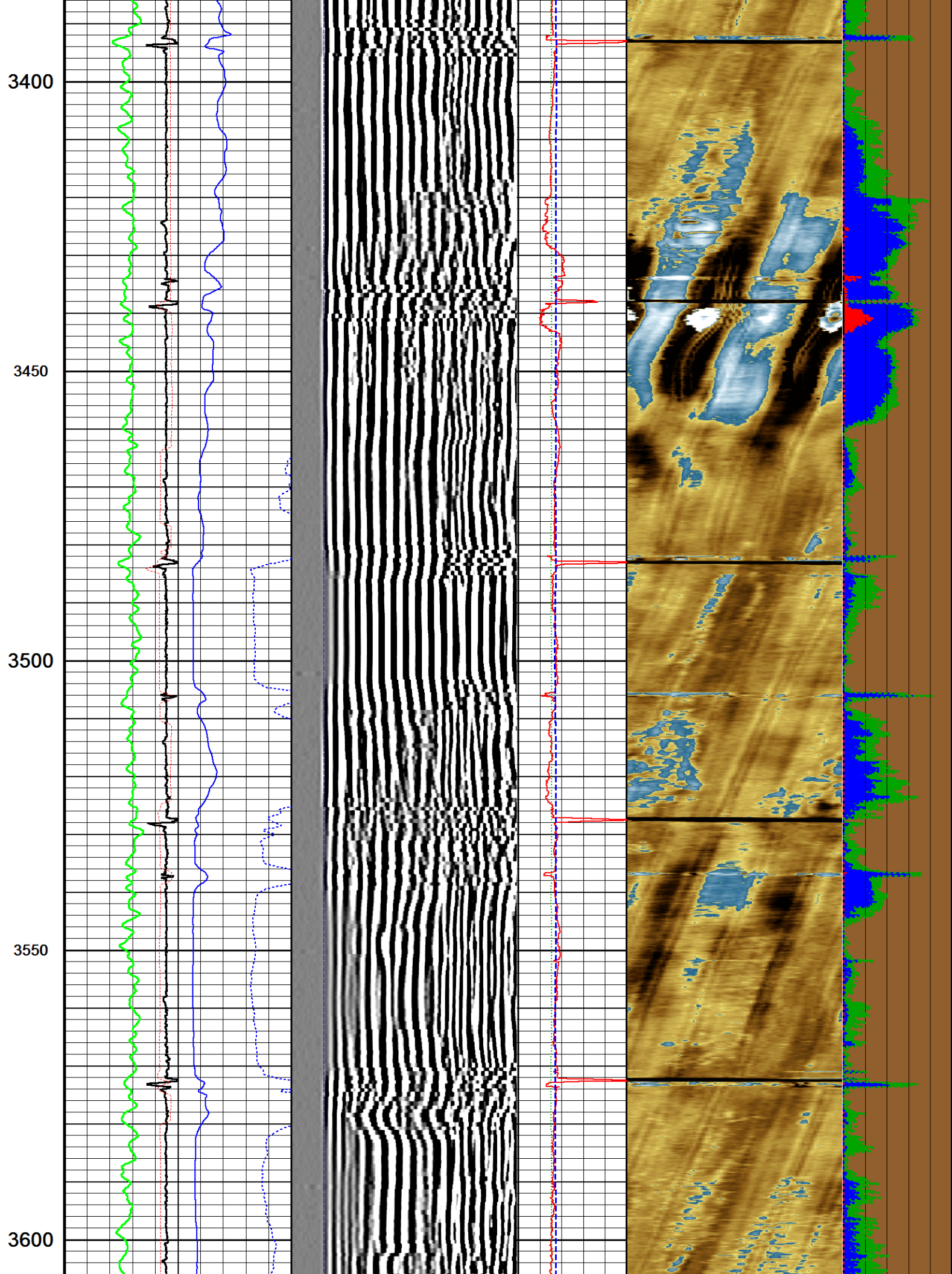


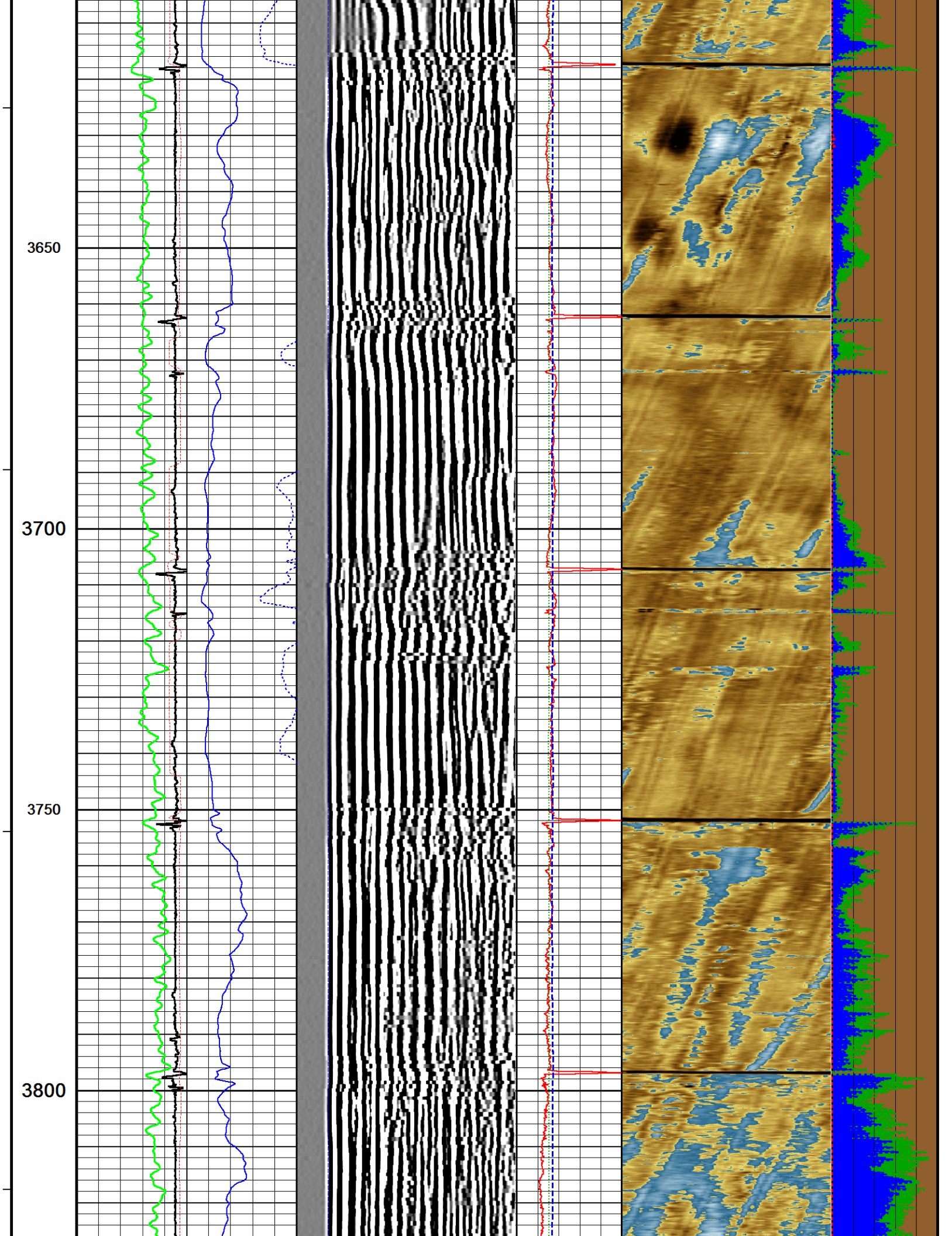


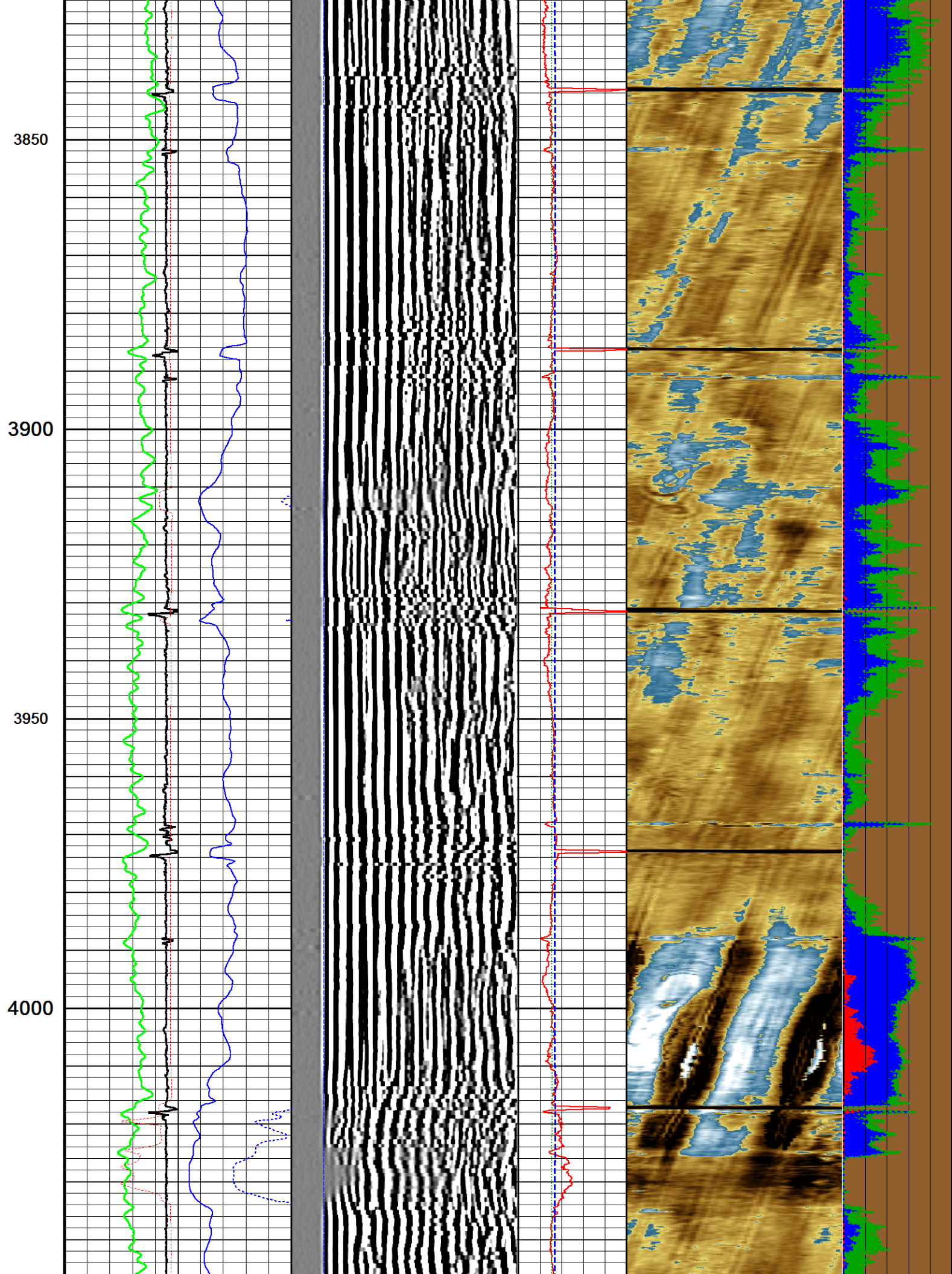


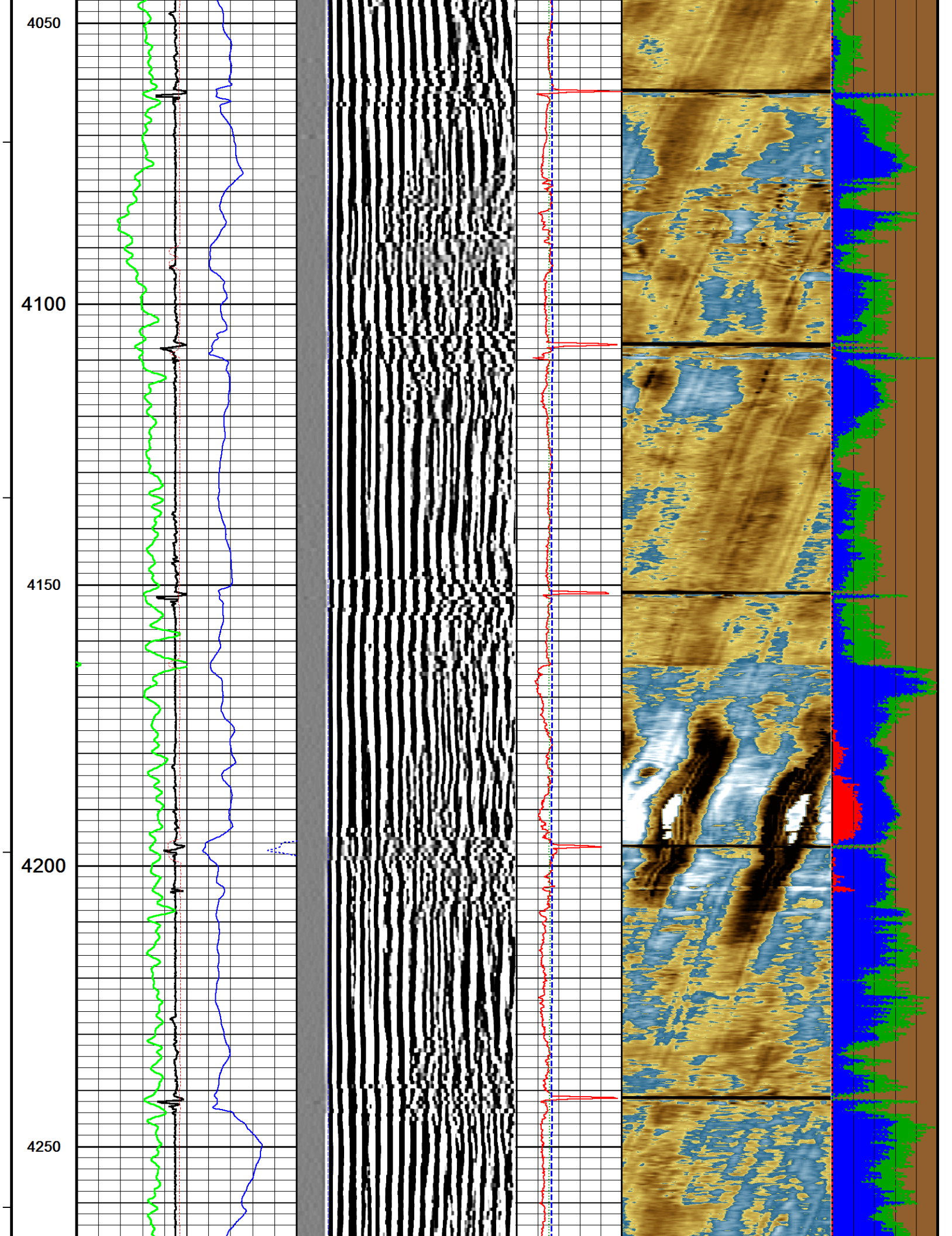


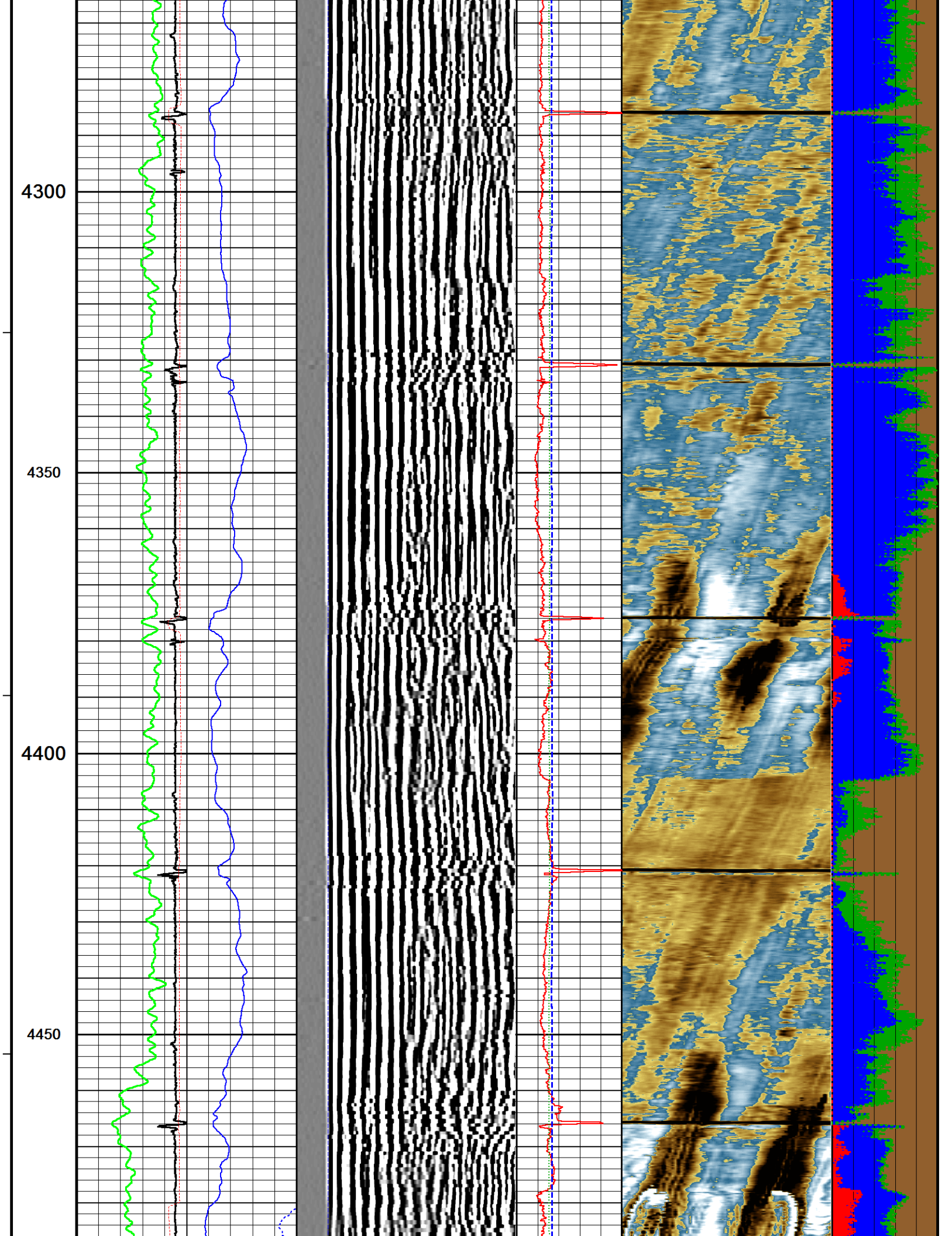


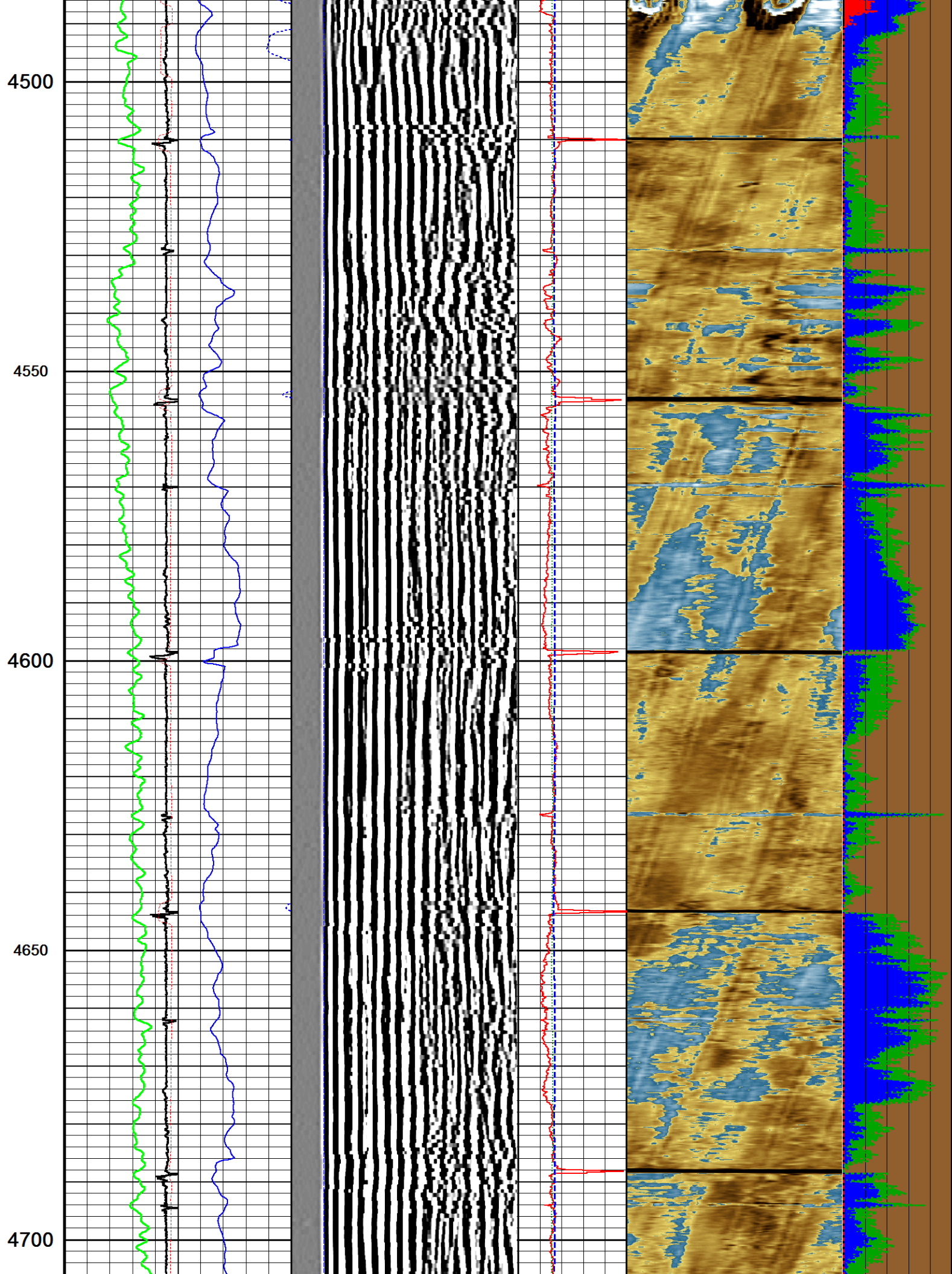


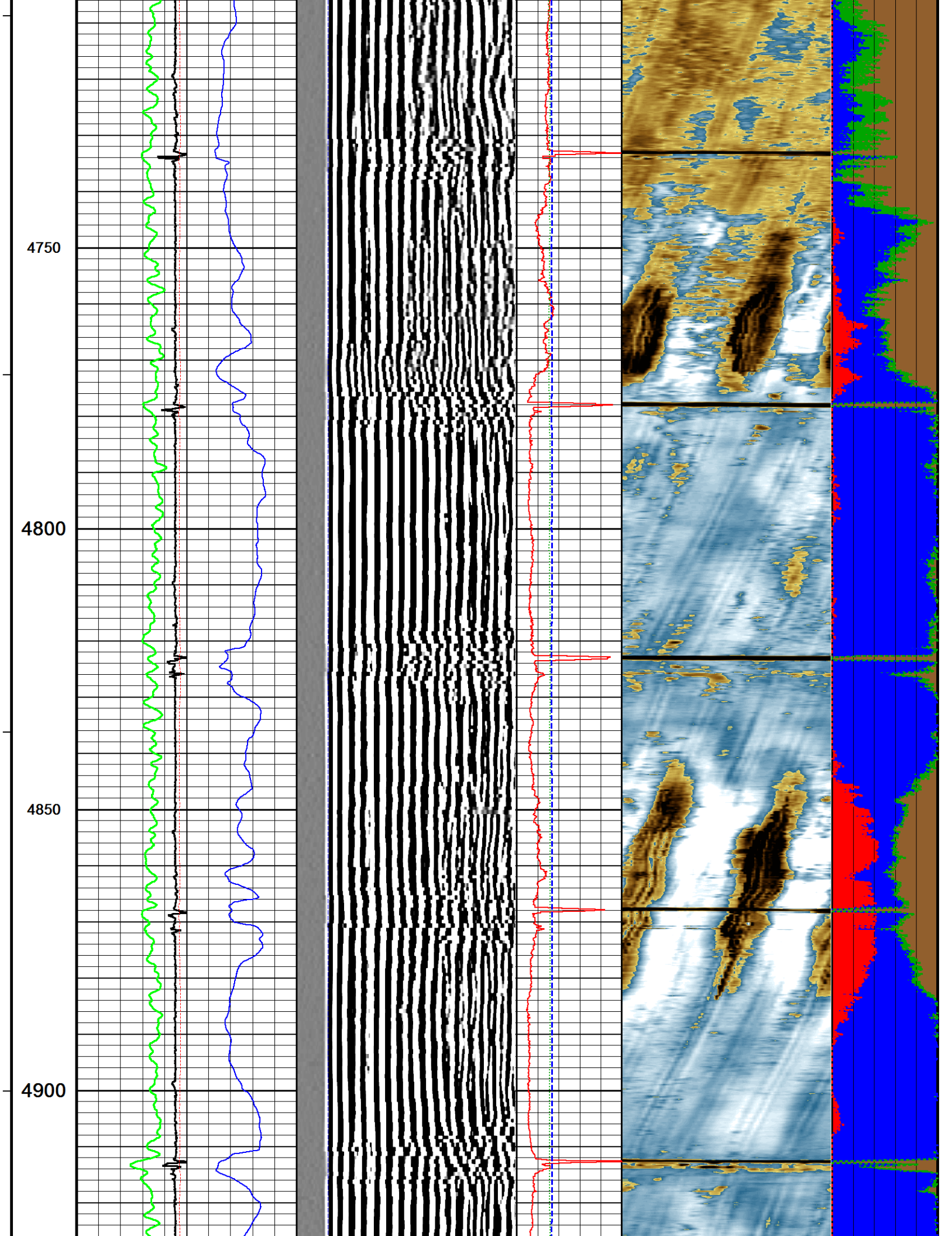


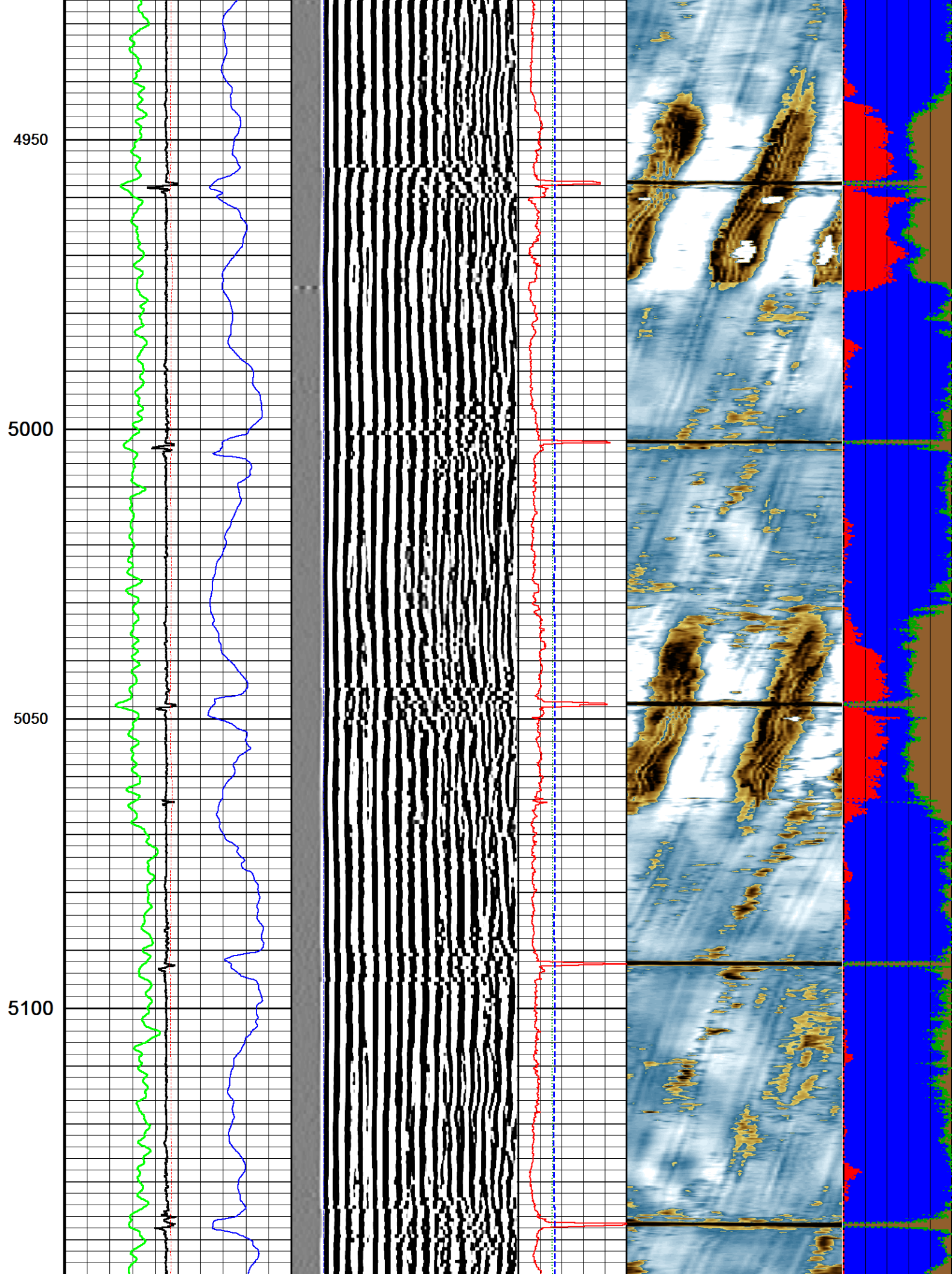


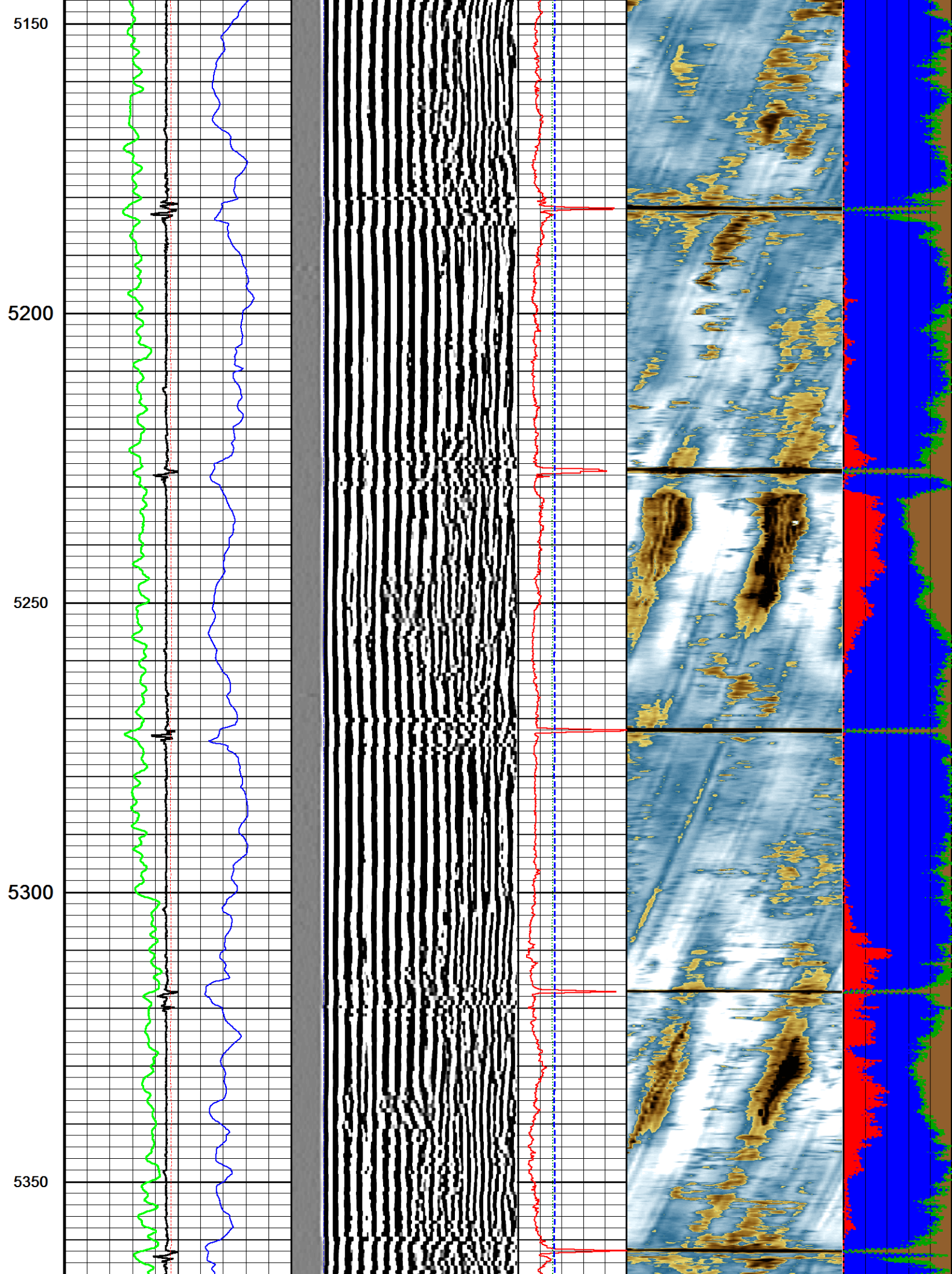


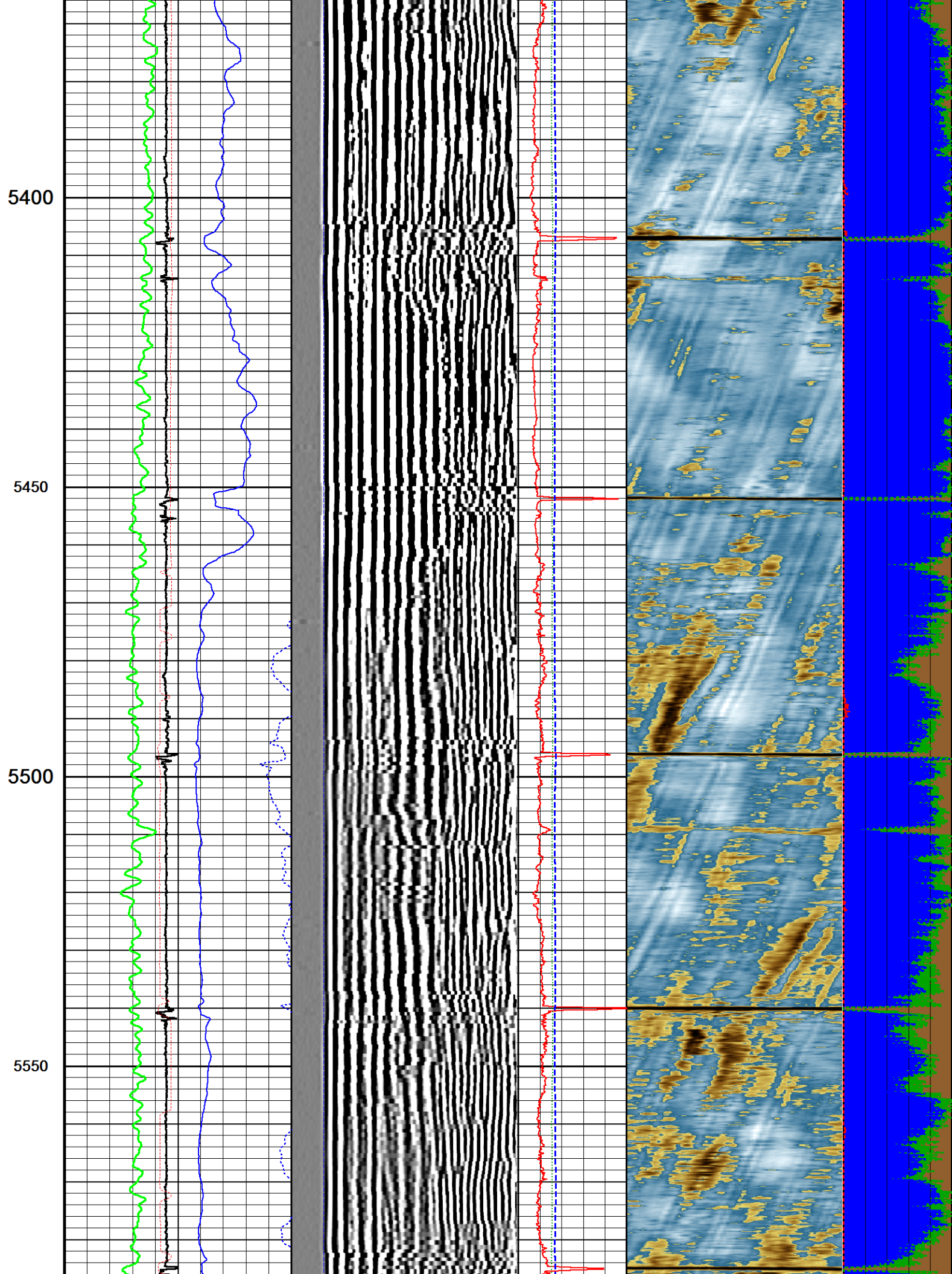


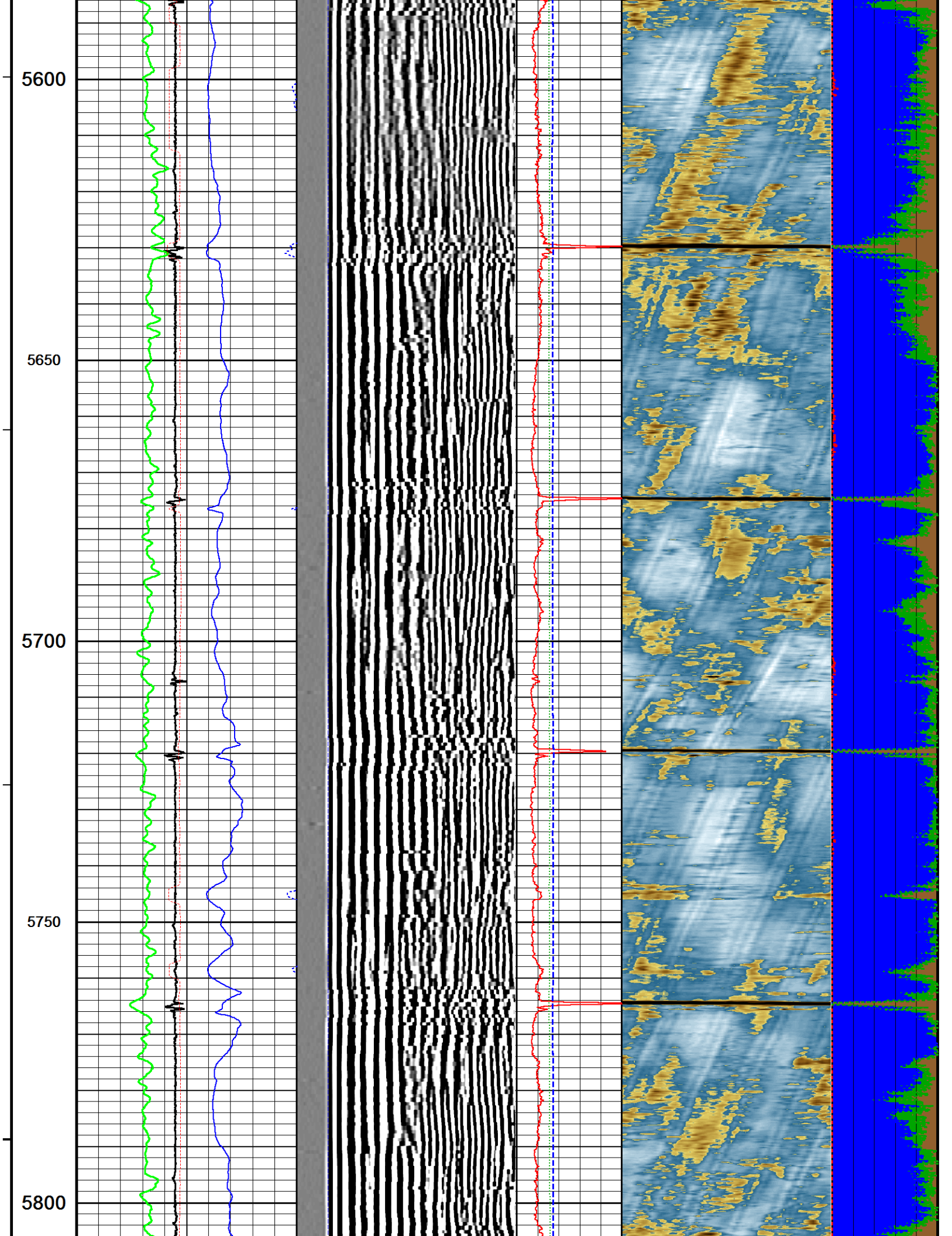


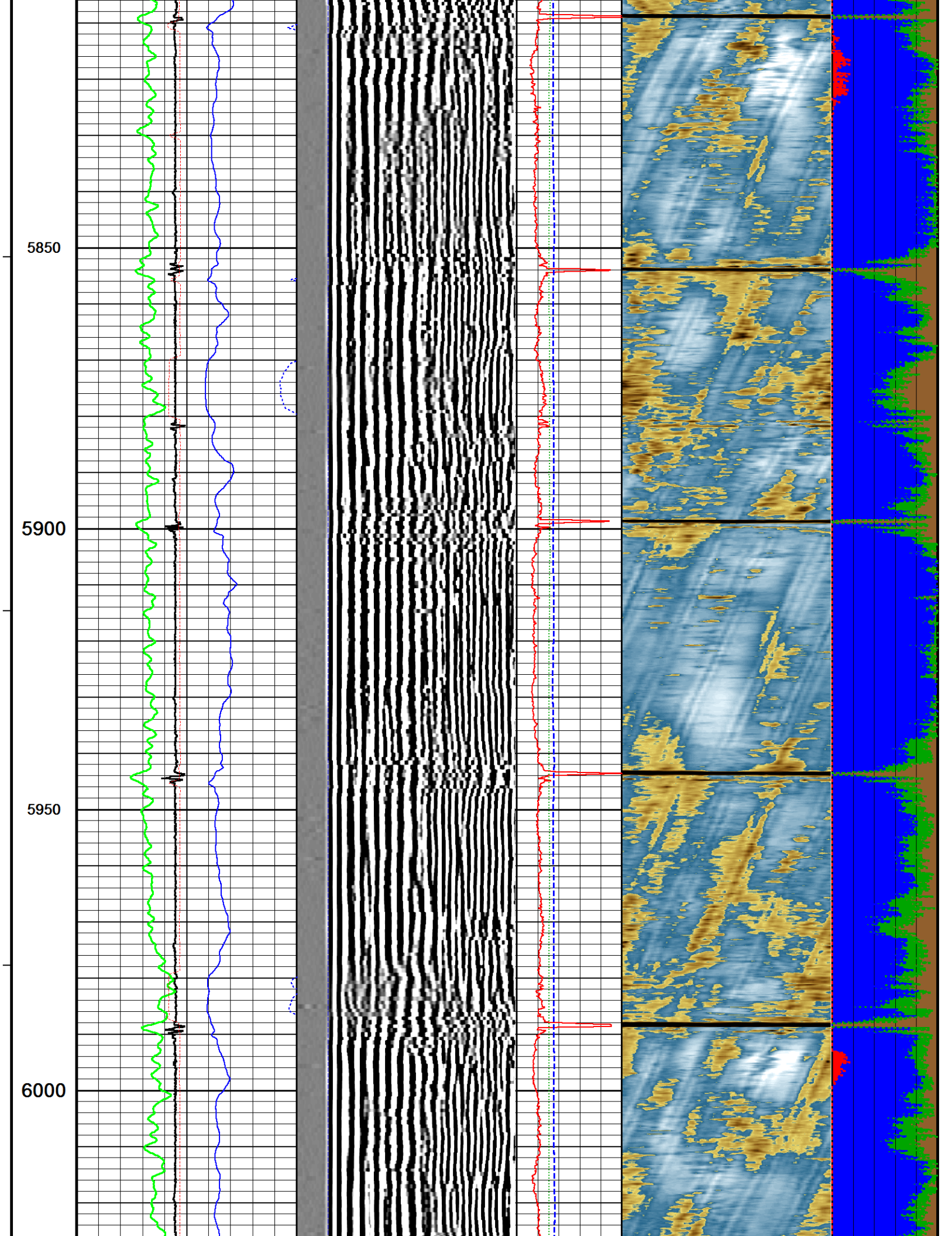


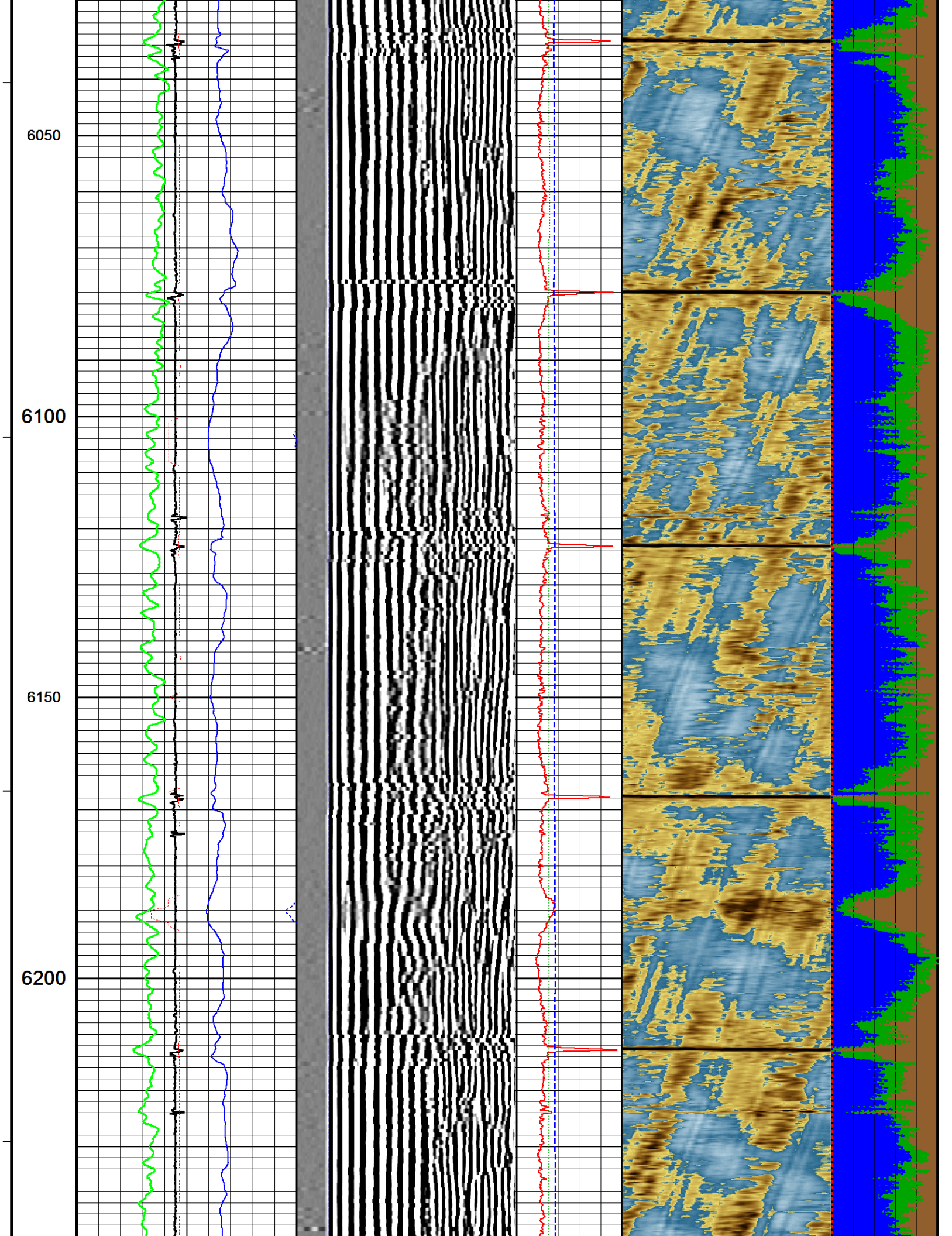


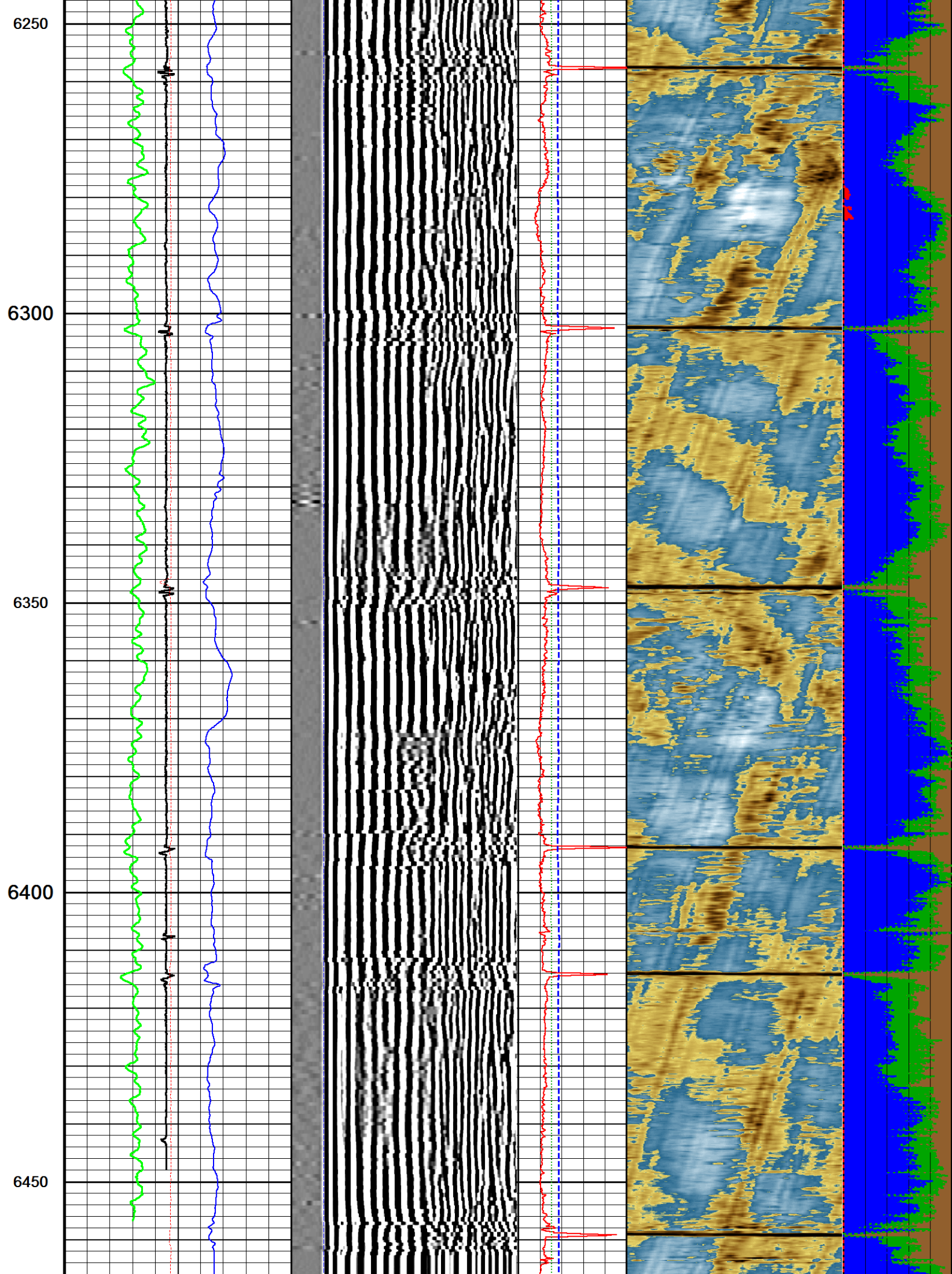


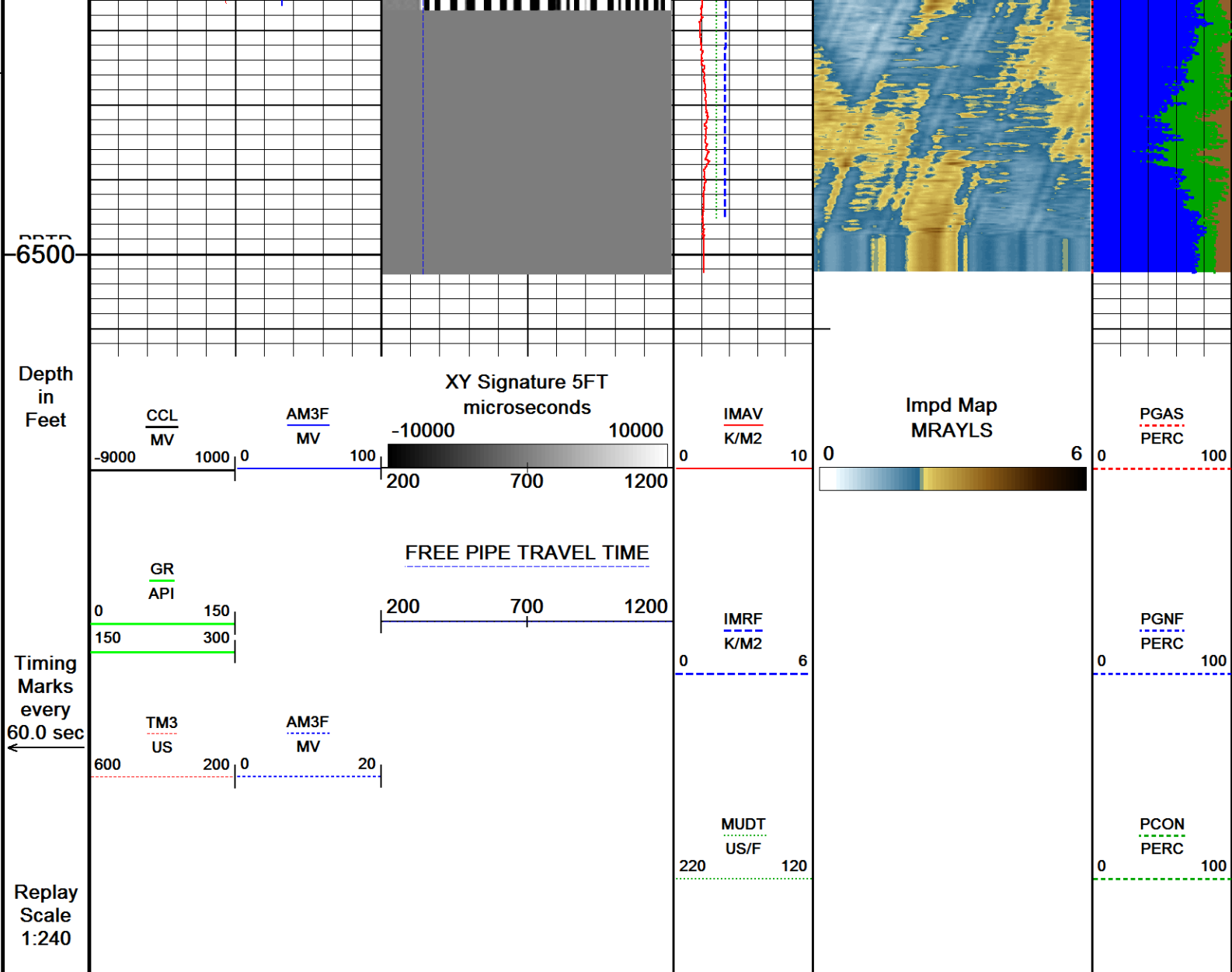












Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Users\le197426\Desktop\EXTRACTION\HFE 4\HFE 4 MAIN PASS SPLICE.dta
System Versions: Processed with 17.01.6186 Plotted with 17.01.6186

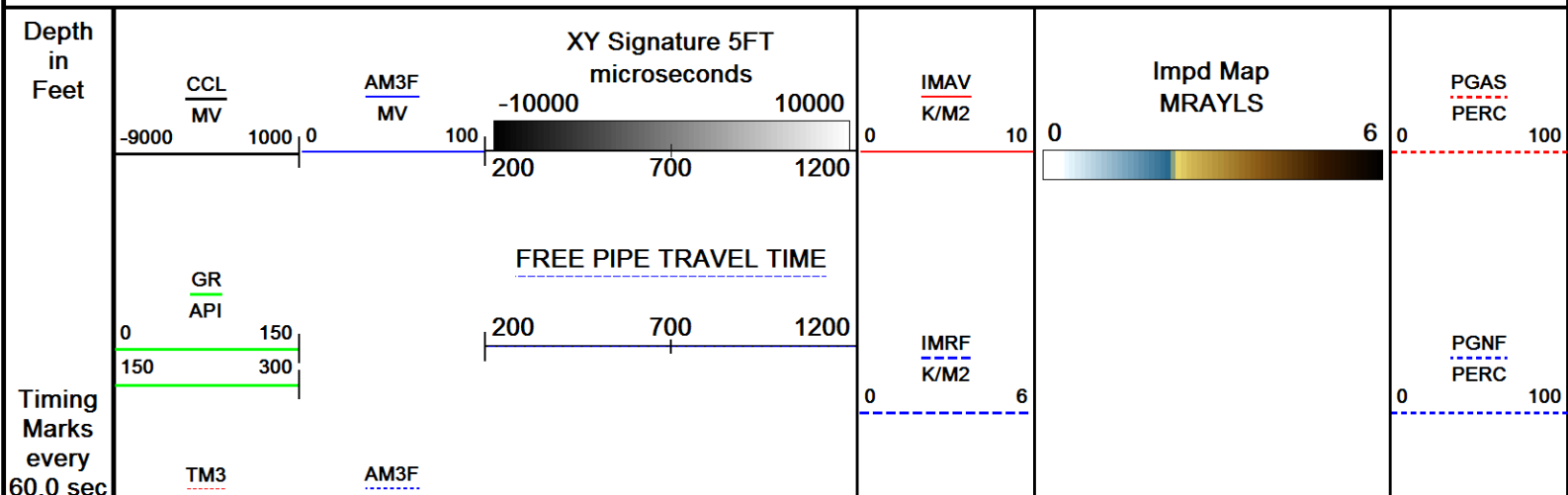
Plotted on 09-SEP-2017 10:45
Recorded on 08-SEP-2017 07:28

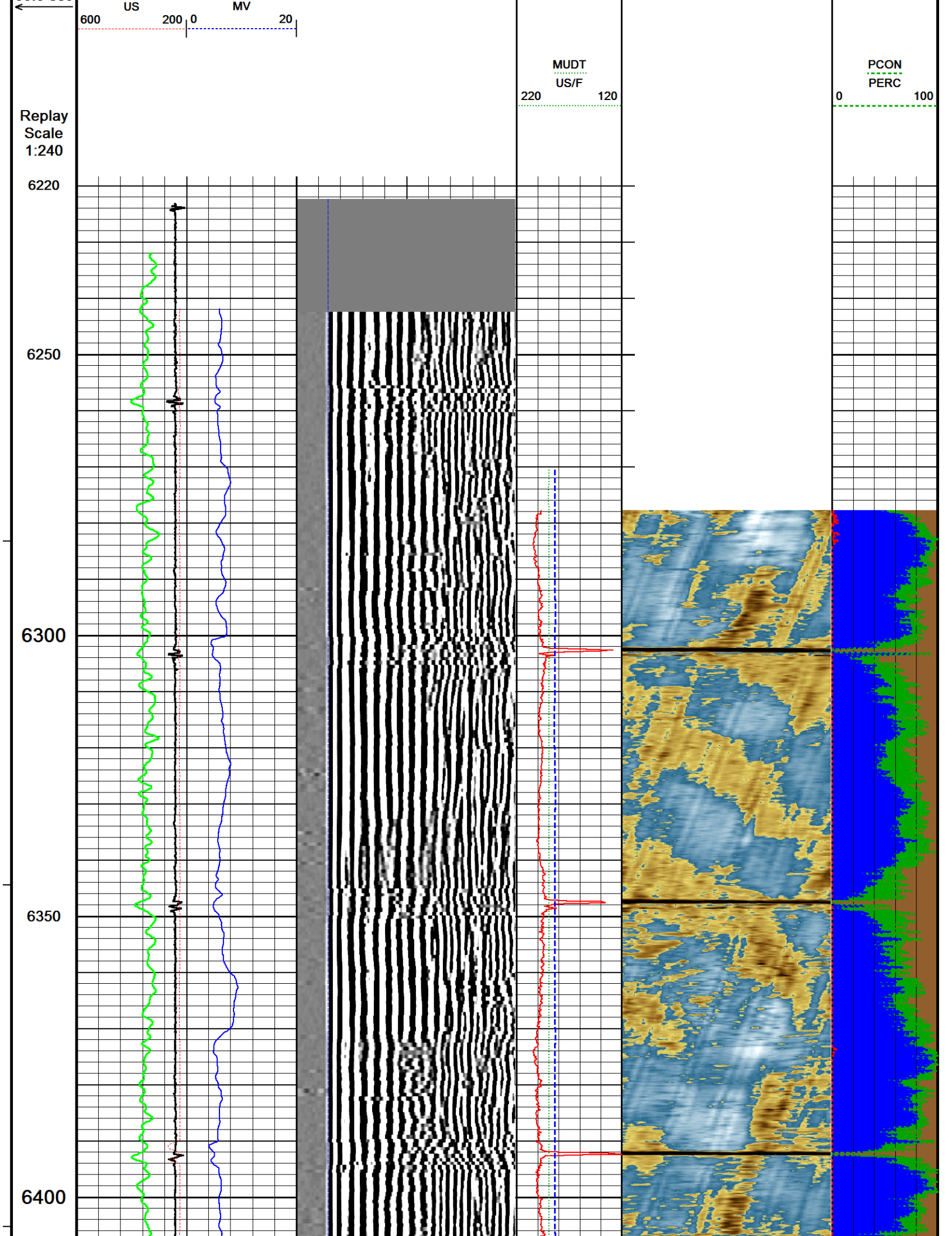
MAIN PASS 1:240

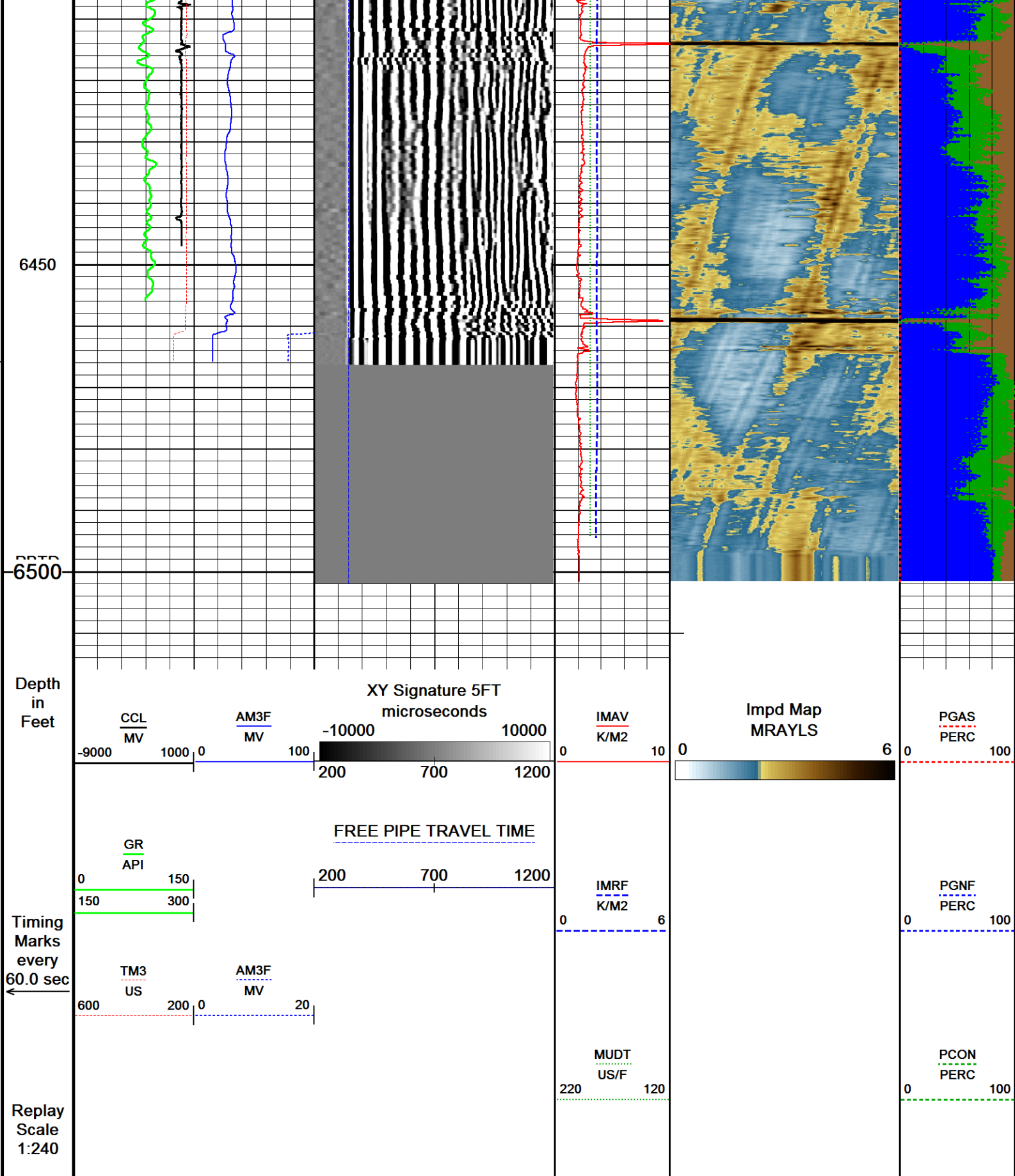
REPEAT PASS 1:240

Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Users\le197426\Desktop\EXTRACTION\HFE 4\HFE 4 REPEAT PASS.dta
System Versions: Logged with 17.01.7206 Processed with 17.01.6186 Plotted with 17.01.6186

Plotted on 09-SEP-2017 10:45
Recorded on 08-SEP-2017 07:22







UGR Field Survey Cal UGR-JD 118

Field Calibration on 00-JAN-1988 00:00

Gamma Ray Field Survey Calibration

Tool Type: UGR-JD
Calibrator No:

Serial No: 118

Background Calibrator Standard Units

0.0 389.0 140.0 CPS

Delta Counts Per Sec: 389.0

CPS/API = 2.779

CBT Field Calibration CBT-AA 116

Field Calibration on 00-JAN-1988 00:00

Cement Bond Tool Amplitude Field Calibration

Tool Type CBT-AA

Serial No

116

Free Pipe Depth

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	9.20	0.00
	Free Pipe	72.00	736.50
AMP 5 FT	100 % Bond	2.00	0.00
	Free Pipe	48.00	549.60

CBT Constants CBT-AA 116

Last Edited on 08-SEP-2017 07:28

Min Ampl 100% Bond	9.22 MV
Max Ampl 0% Bond	71.77 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	-999.3 US
Cement Weight	0.00 LB/G

DOWNHOLE EQUIPMENT

C:\Users\le197426\Desktop\EXTRACTION\HFE 4\HFE 4 MAIN PASS.dta

Mono-Cablehead
MCH-AA 0 LG: 1.03 ft WT: 2.2 lb OD: 1.457 inCrossover 1-pin to 55-pin for WCC-D
XOV-WC 128 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

Swivel Head 55 pin
SWH-CC 173 LG: 2.72 ft WT: 77.2 lb OD: 3.346 in

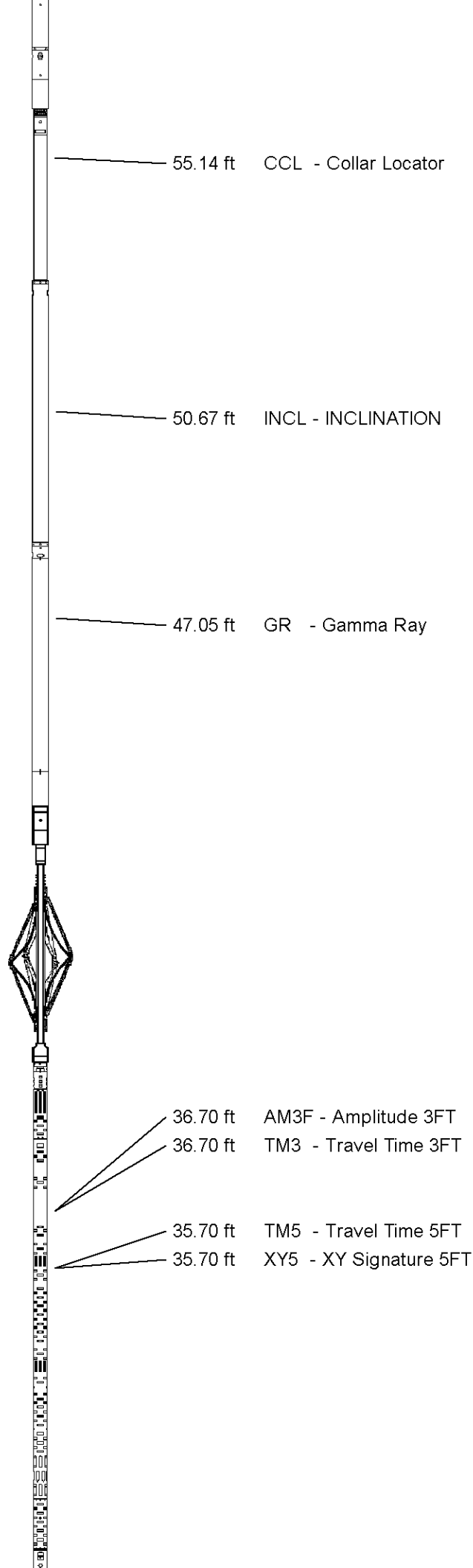
Casing Collar Locator, 55 pin
CCL-WA 197 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in

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

55 pin Roller Centralizer
CEN-XA 185 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Cement Bond Tool
CBT-AA 116 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in



55 pin Roller Centralizer
CEN-XA 186 LG: 4.49 ft WT: 86.0 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

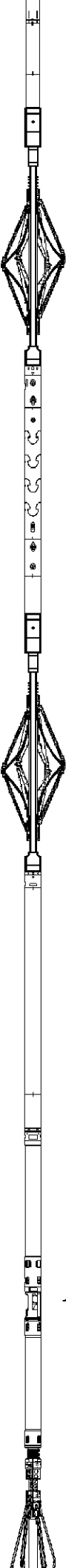
55 pin Roller Centralizer
CEN-XA 222 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

URS Electronics Cartridge
UCC-AA 191 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section
USS-AB 173 LG: 9.65 ft WT: 167.6 lb OD: 3.386 in

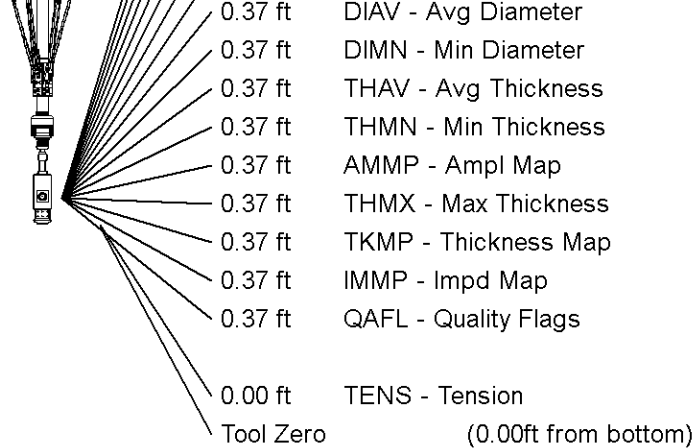
Ultrasonic Radial Scanner Head A
USH-AB 136 LG: 1.03 ft WT: 13.2 lb OD: 3.386 in

Total Length: 60.78 ft Weight: 1031.8 lb



7.65 ft IMRF - Mud Impedance
7.65 ft MUdT - Mud Slowness

0.37 ft ARMX - Max Area
0.37 ft ARAV - Avg Area
0.37 ft IMMX - Max Impedance
0.37 ft IMAV - Avg Impedance
0.37 ft IMMN - Min Impedance
0.37 ft ECCE - Eccentering
0.37 ft OVLI - ID Ovality
0.37 ft DIMX - Max Diameter



All measurements relative to tool zero.

COMPANY EXTRACTION OIL & GAS
 WELL HFE #4
 FIELD WATTENBERG
 PROVINCE/COUNTY WELD
 COUNTRY/STATE UNITED STATES / COLORADO

Elevation Kelly Bushing	4946	feet	Bottom Log Interval	6500.00	feet
Elevation Drill Floor		feet	Depth Driller		feet
Elevation Ground Level	4918	feet	Depth Logger	6500.00	feet



SECUREVIEW
 ULTRAVIEW / BONDVIEW
 CEMENT ANALYSIS LOG

Weatherford®