



**Weatherford**

**SECUREVIEW  
ULTRAVIEW / BONDVIEW  
CEMENT ANALYSIS**

COMPANY

EXTRACTION OIL AND GAS

WELL

STROMBERGER #8

FIELD

WATTENBERG

PROVINCE/COUNTY

WELD

COUNTRY/STATE

USA / COLORADO

LOCATION

SEC 22 TWP 6N RGE 67W

Other Services

Latitude

Longitude

API Number

Permanent Datum GROUND LEVEL, Elevation feet

Log Measured From KB

Drilling Measured From KB

Elevations:  
KB  
DF  
GL

Date 27-APR-2017

**PERFORATION RECORD**

Run Number

ONE

Shot

Number

Depth From

Depth To

Service Order

180519238

Density

of Shots

feet

feet

Type Log

URS-CBT

Depth Driller

16709.00

feet

Depth Logger

6500.00

feet

Top Log Interval

0.00

feet

Bottom Log Interval

6500.00

feet

Hole Fluid Type

WATER

Hole Fluid Level

0.00

feet

Restriction ID

4.653

inches

Max Recorded Temp

Gun Type

Well Head Pressure

0.00

psi

Well Head Equipment

NONE

Time Well Ready

ROA

Size

Weight

Depth From

Depth To

Time Logger Bottom

SEE LOG

5.500

20.00

0.00

17120.00

Unit

14333

Equipment Name

WSS-E

Base

CASPER

Recorded By

P. MAZUR

Witnessed By

NOT WITNESSED

**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	17120.00	20.00

**REMARKS**

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.

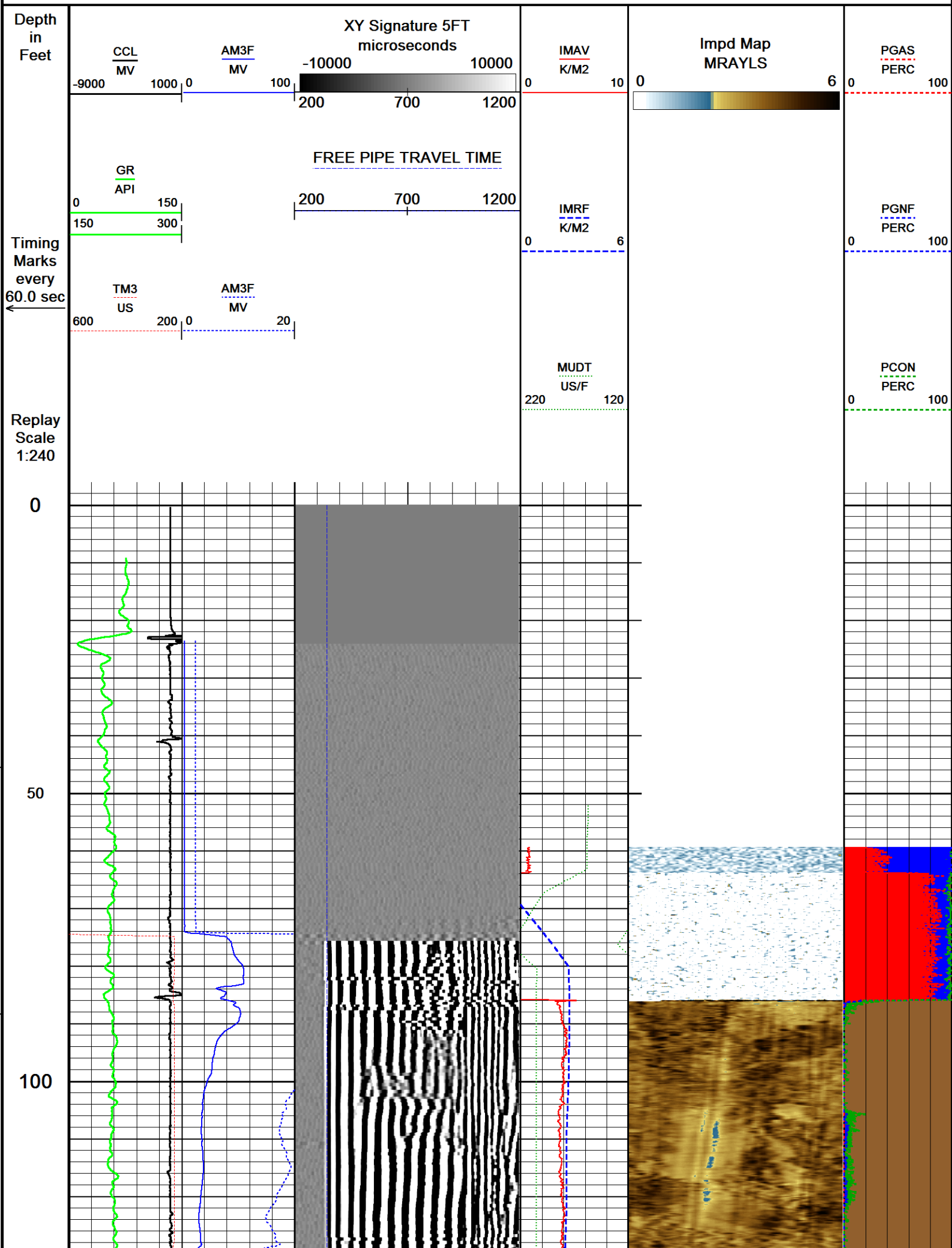
**MAIN PASS 1:240**

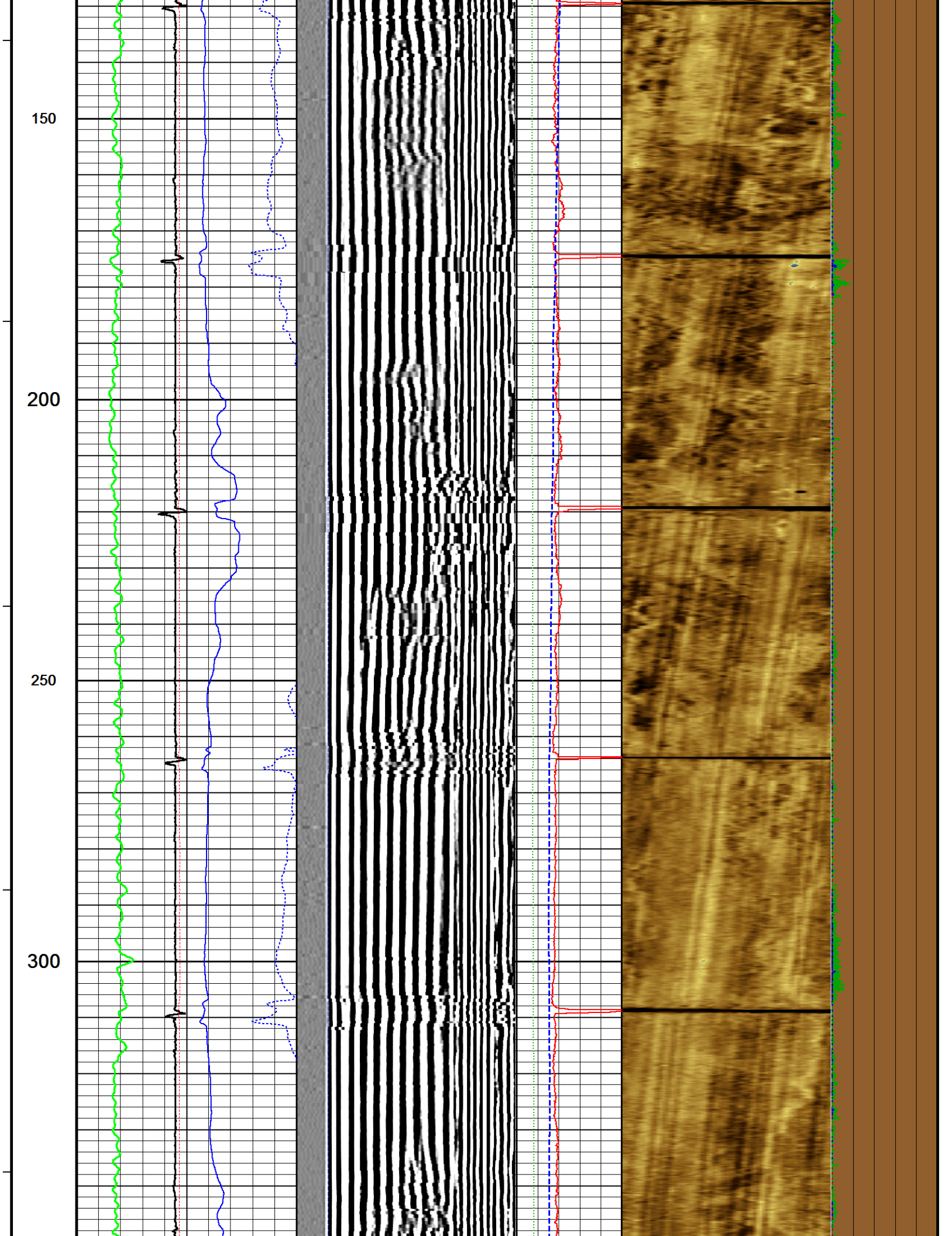
Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: F:\Logs\Extraction\STROMBERGER #8 URS\STROMBERGER #8 URS MAIN PASS.dta

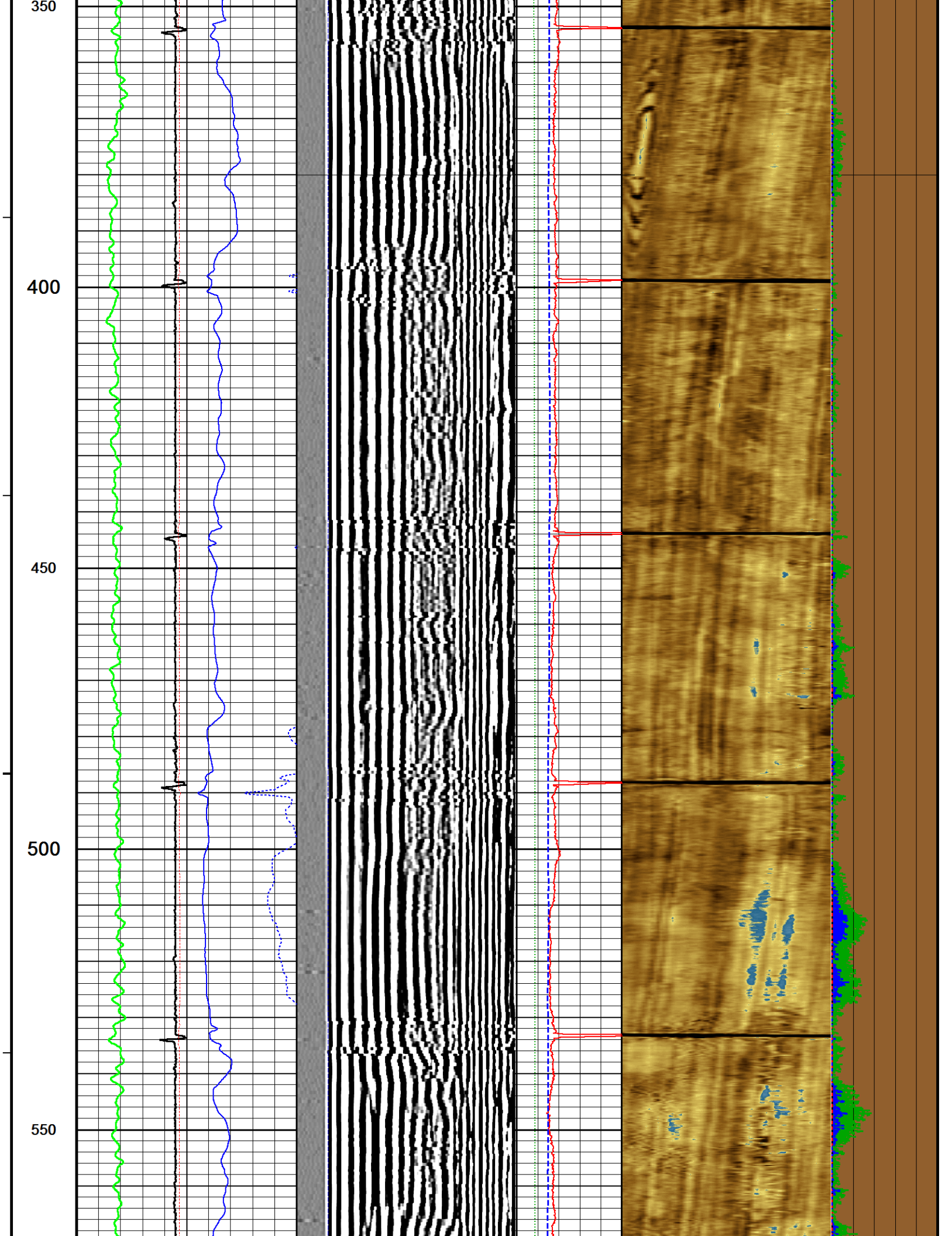
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Recorded on 27-APR-2017 16:46

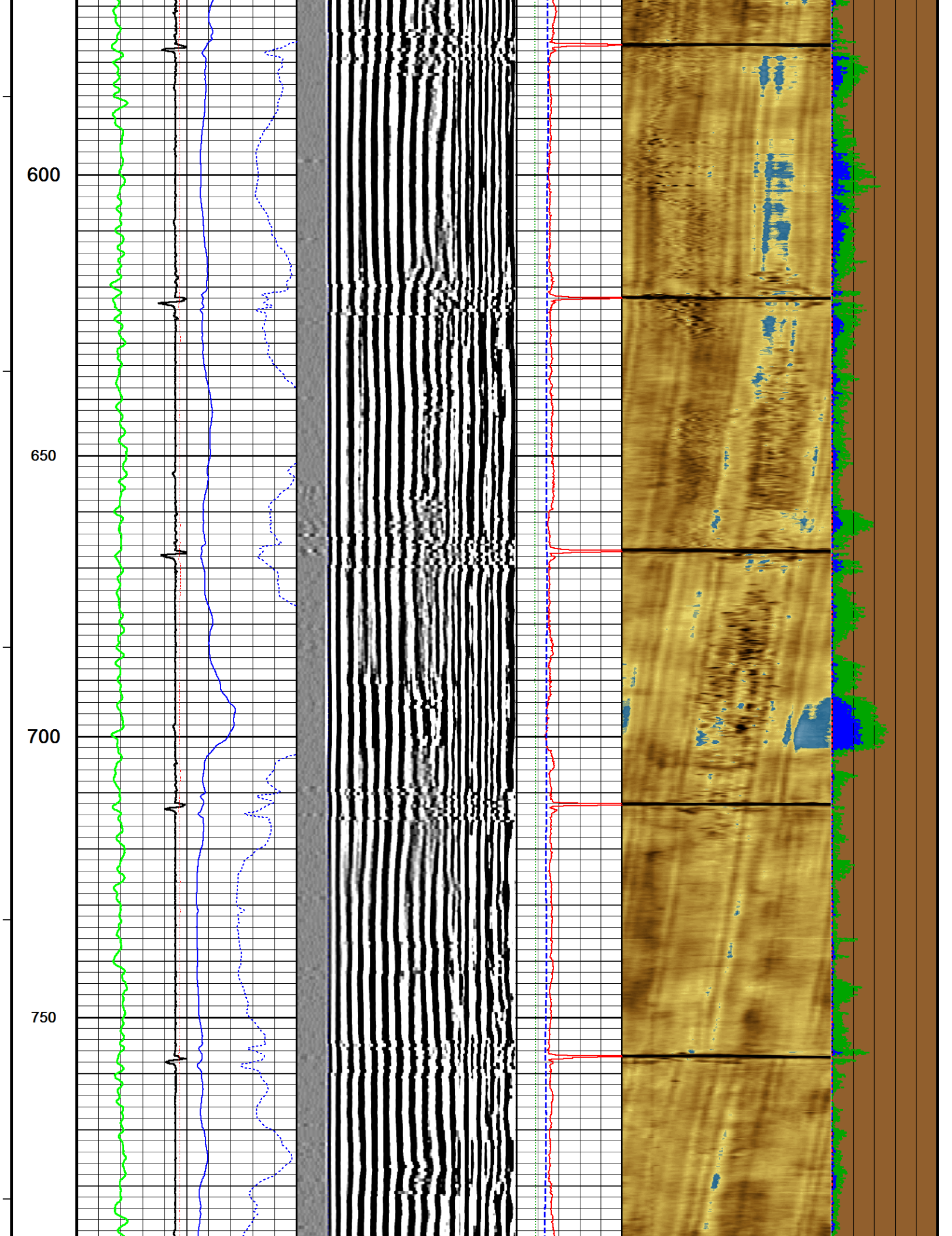


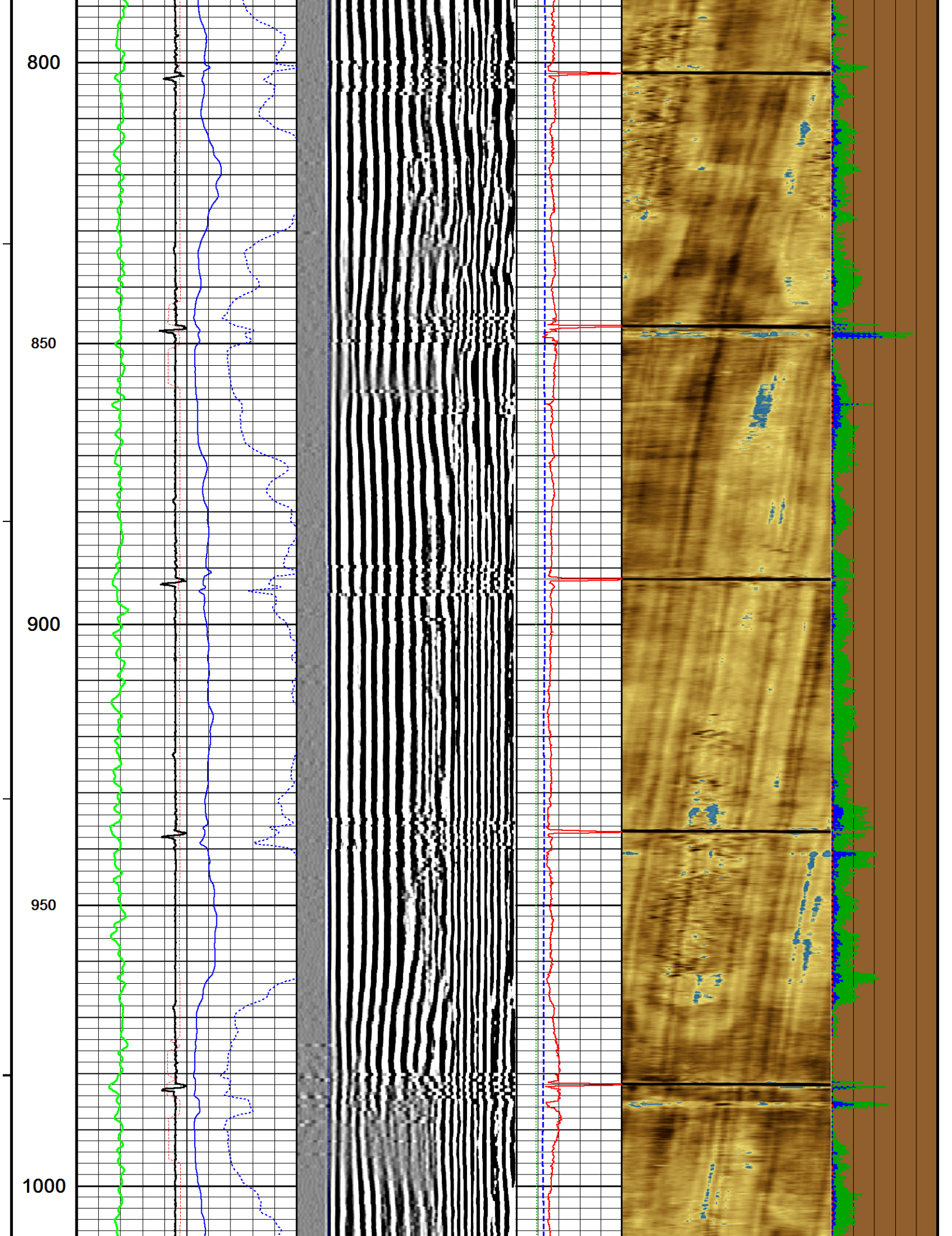




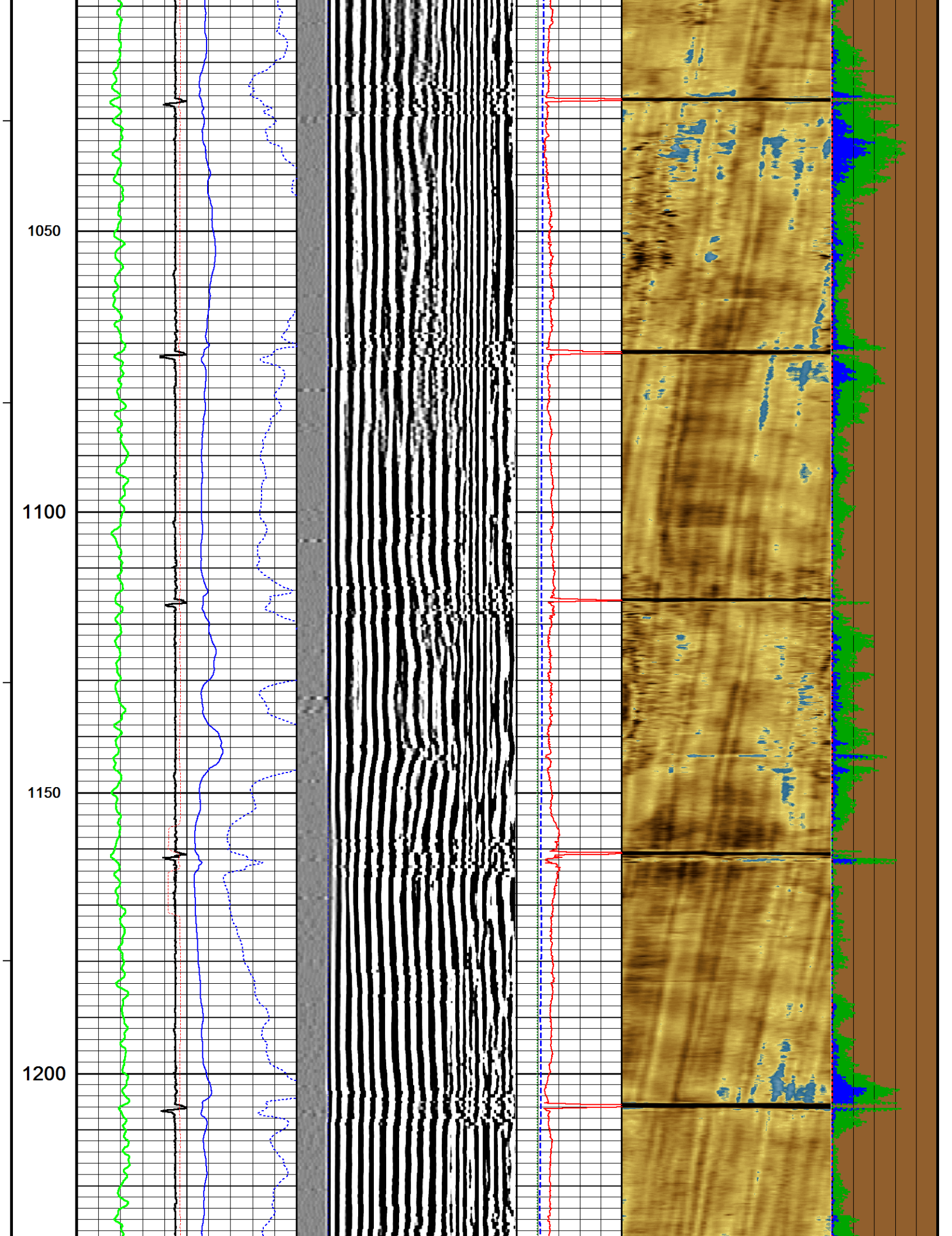




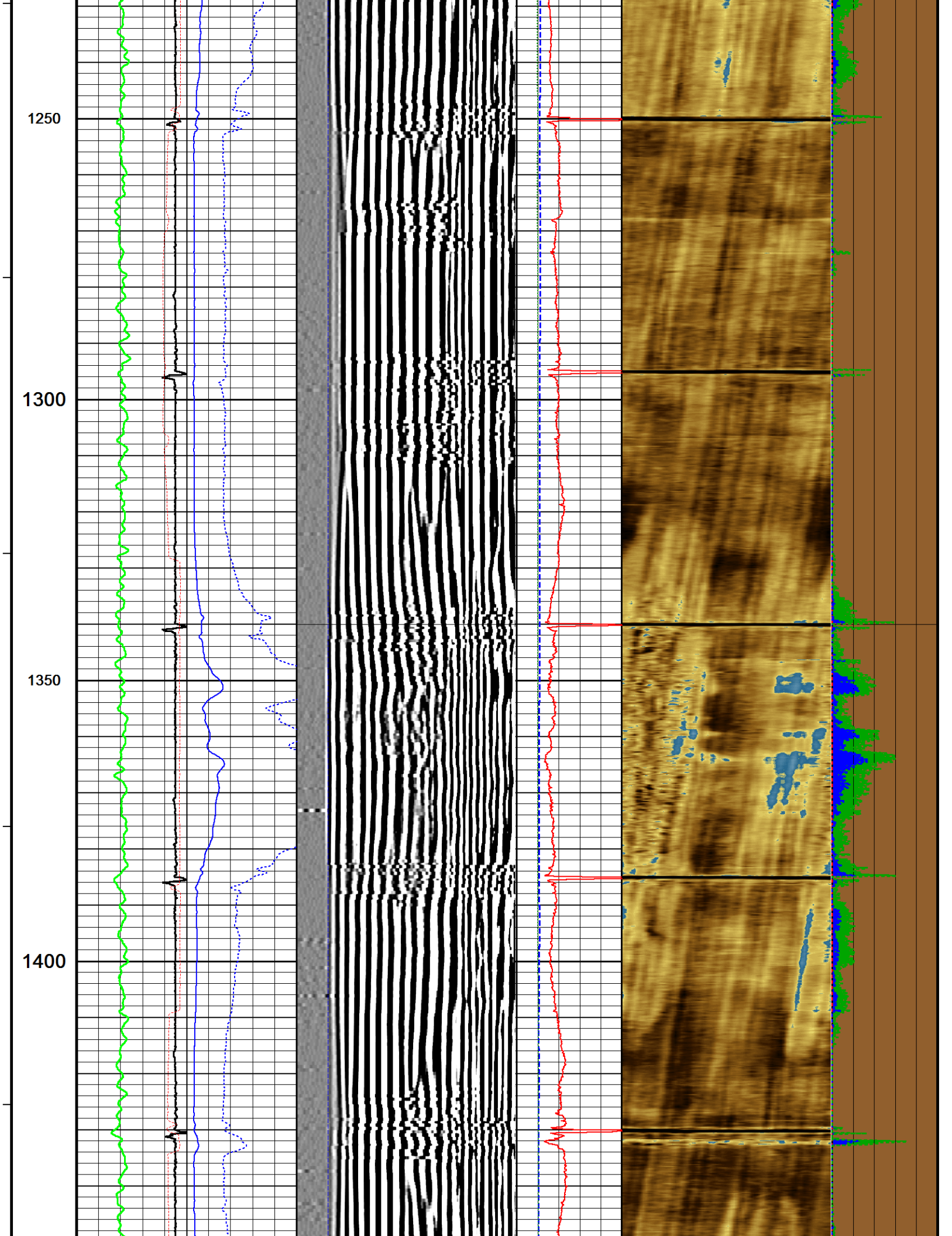


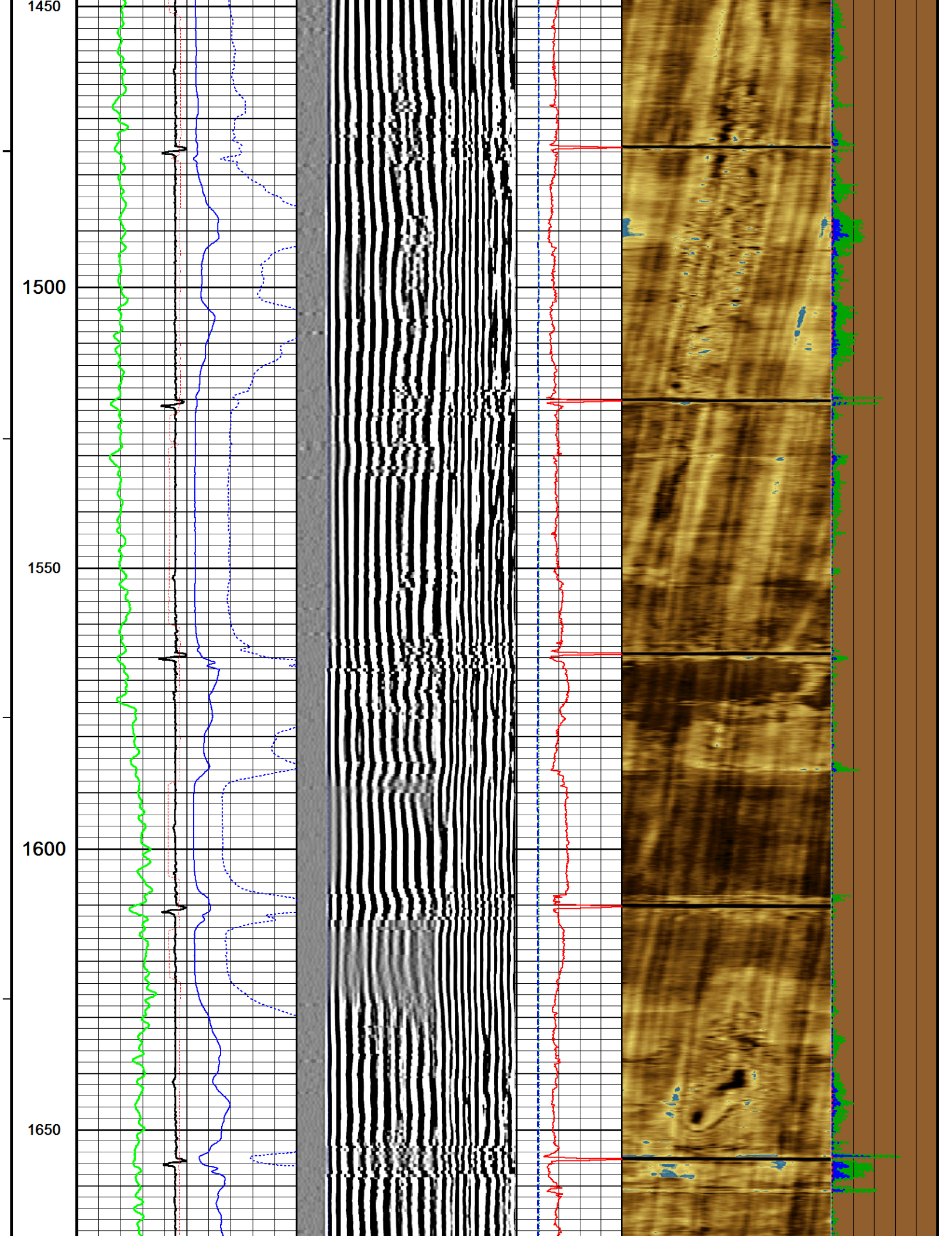




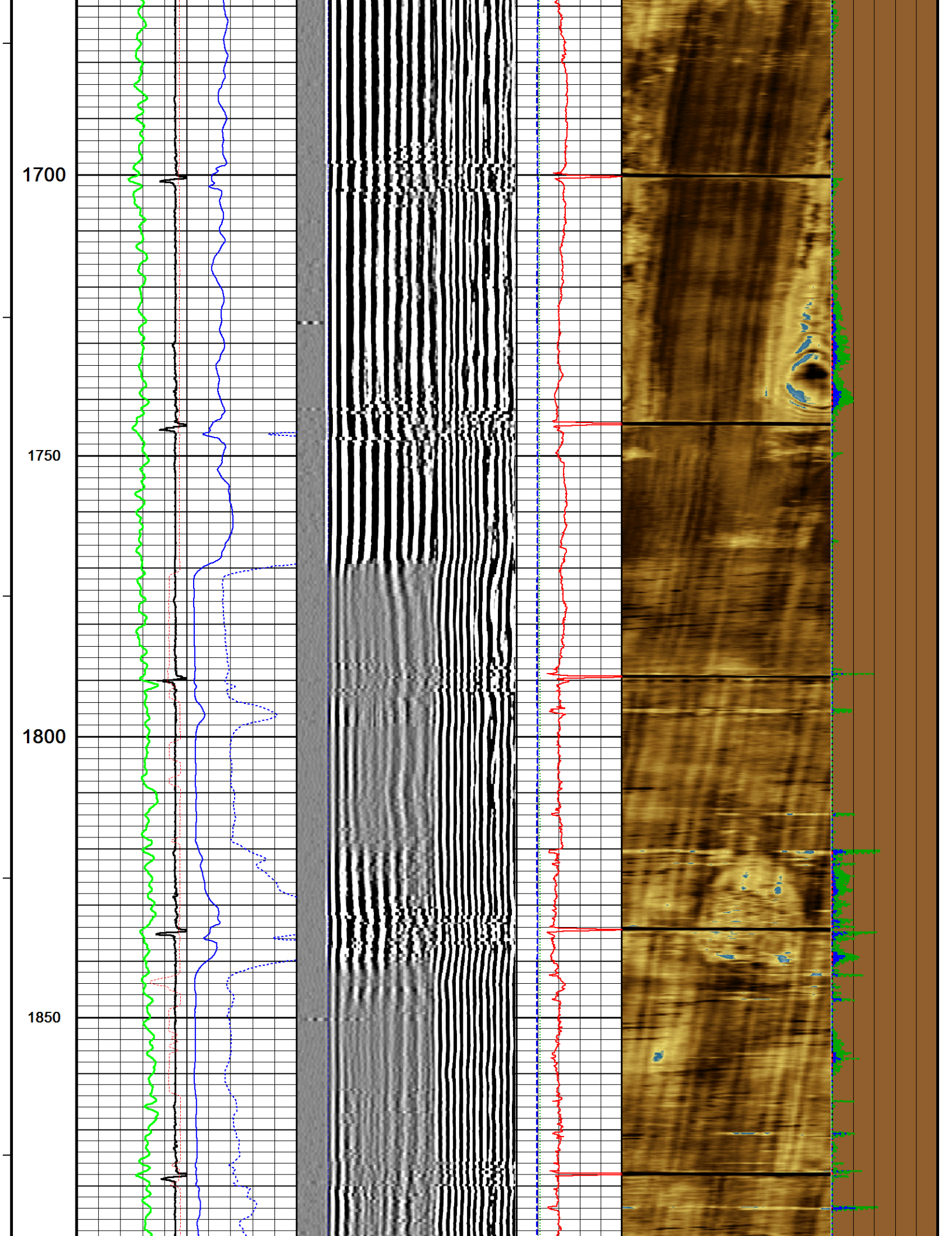




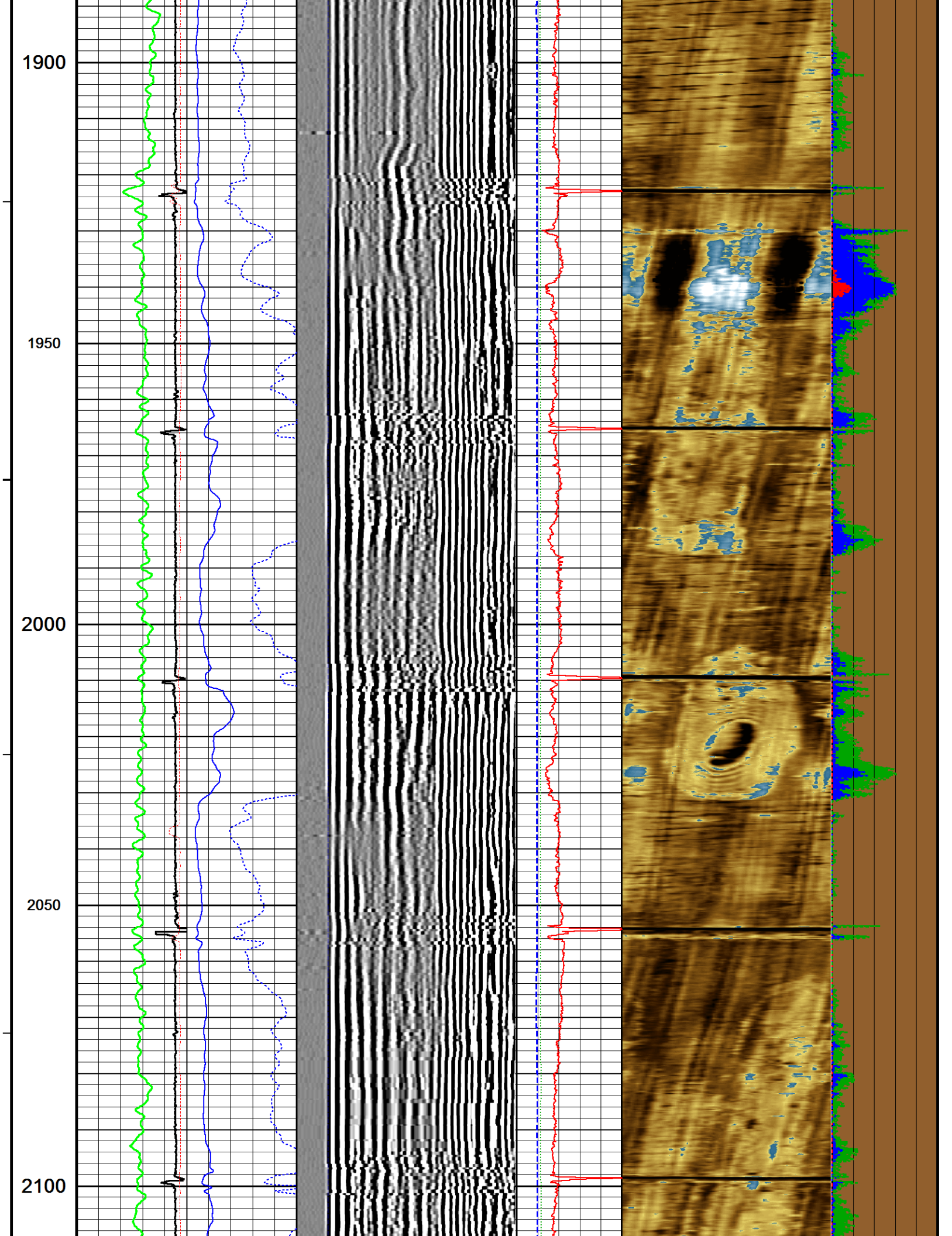


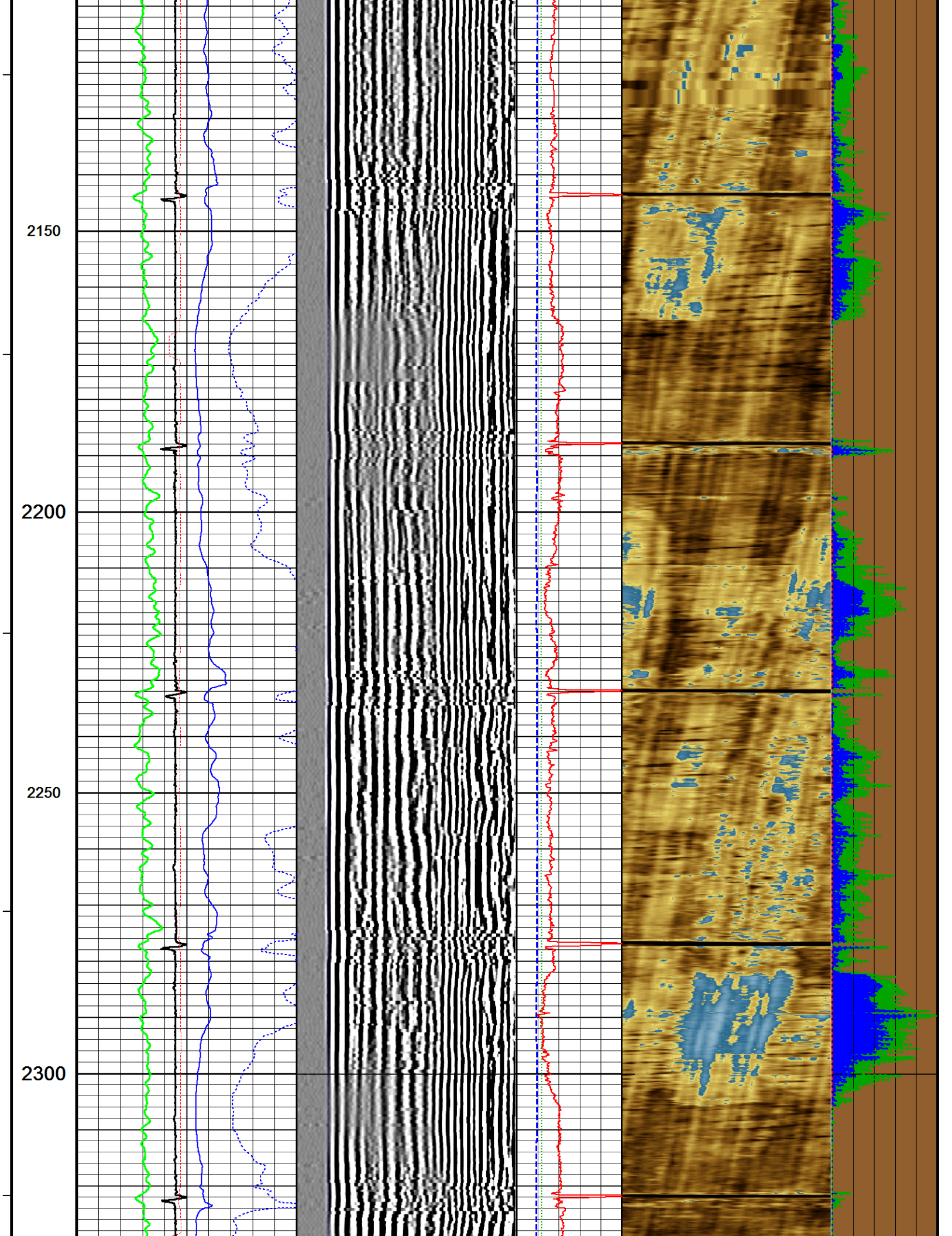




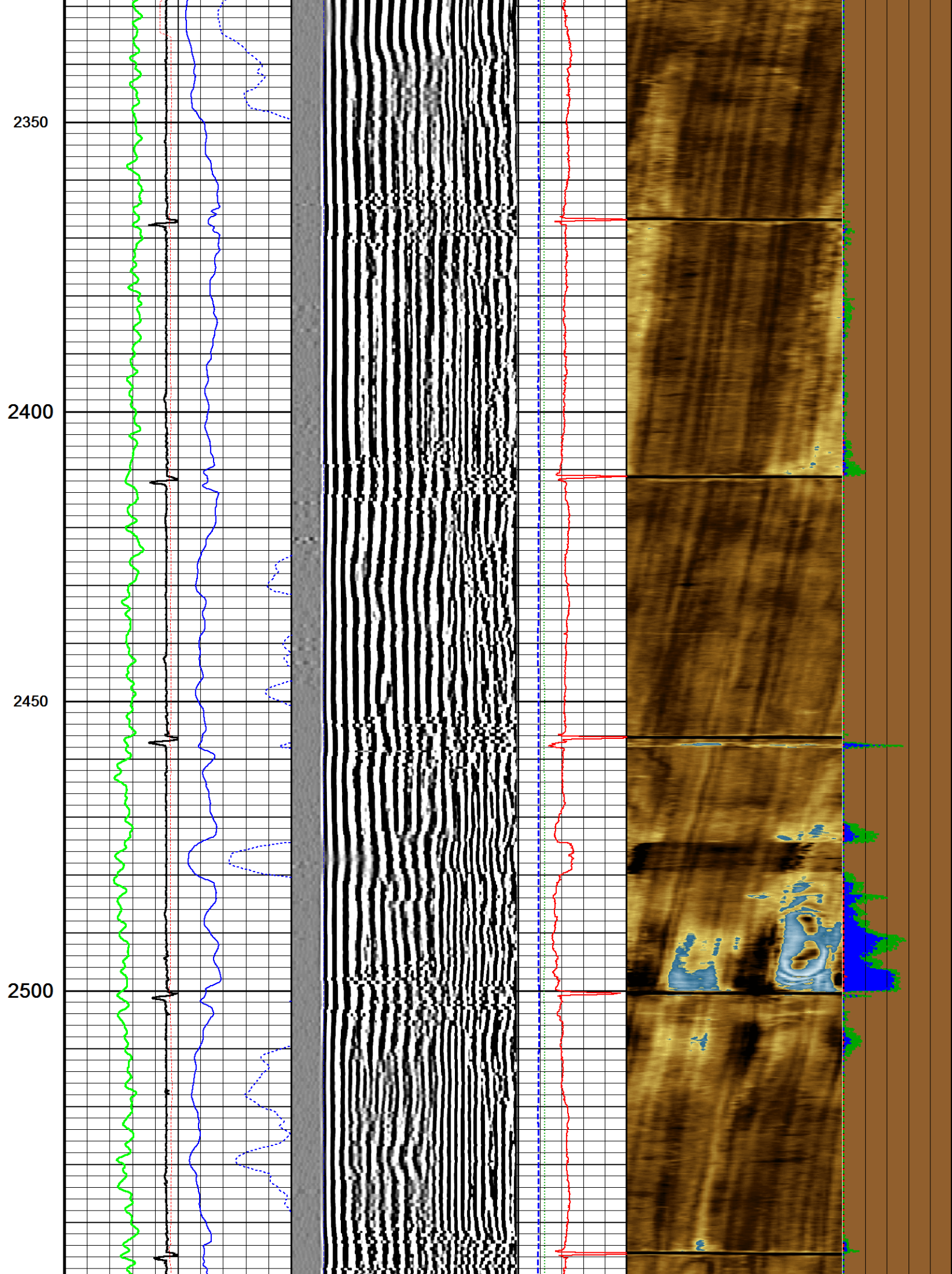




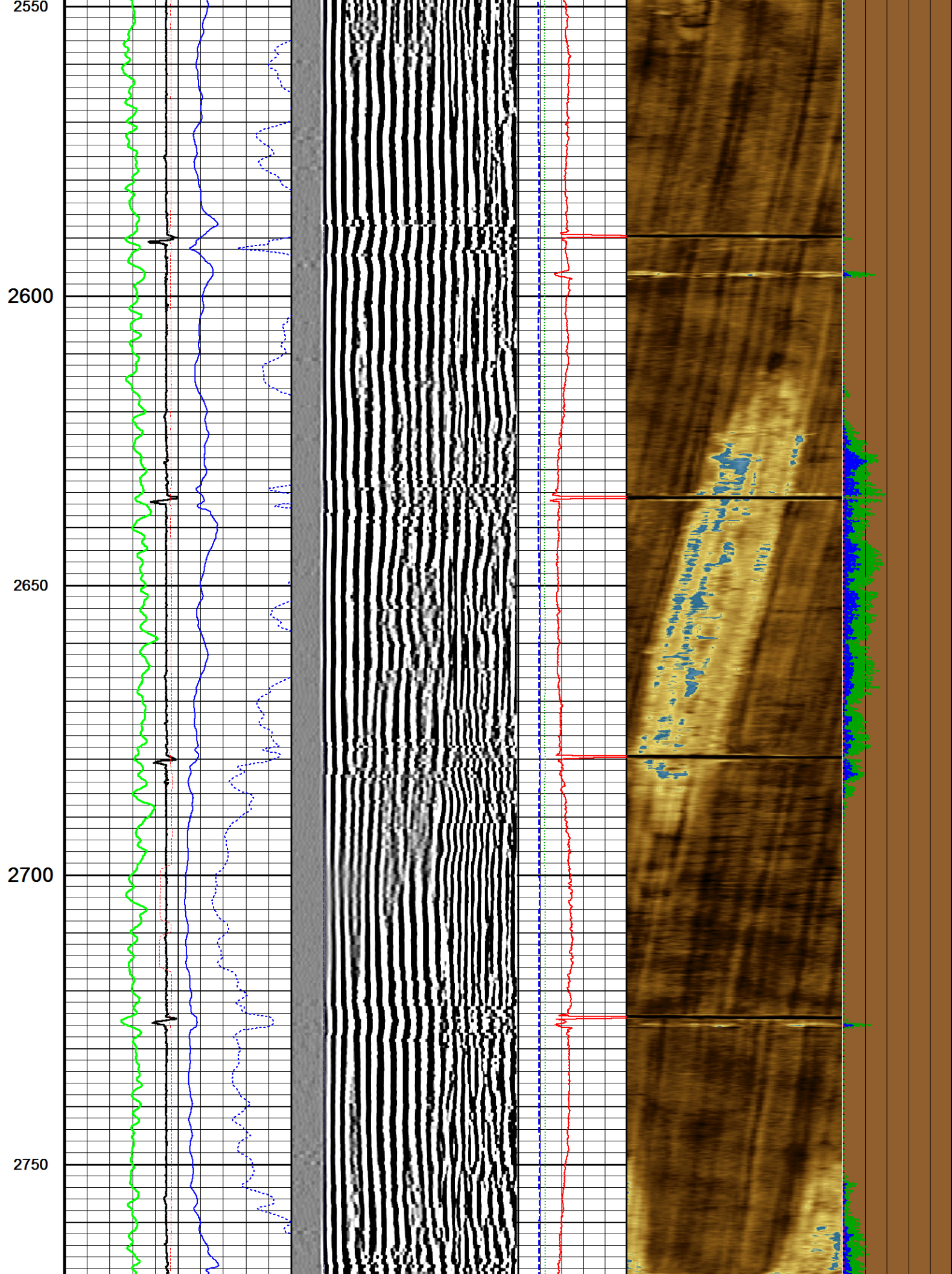


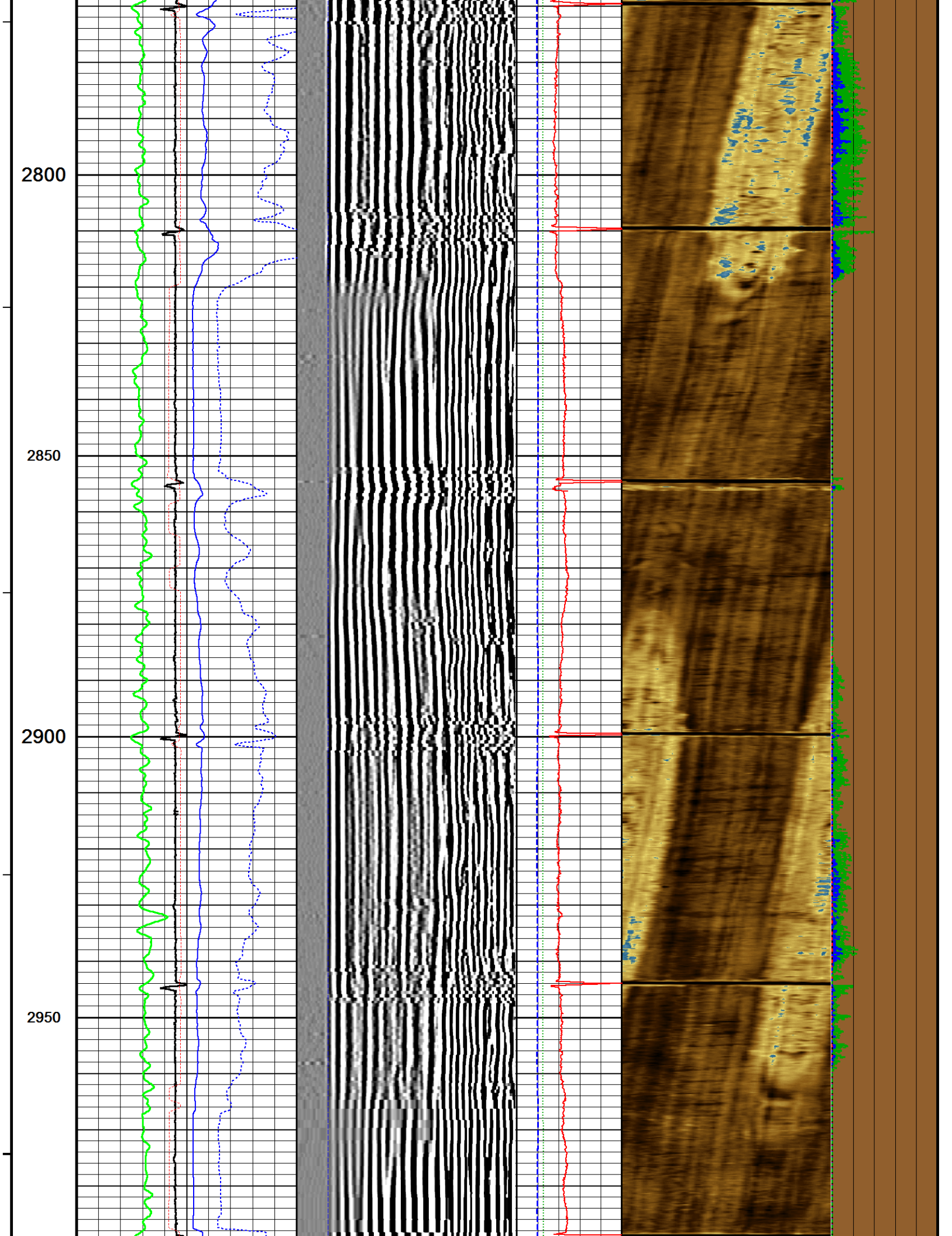




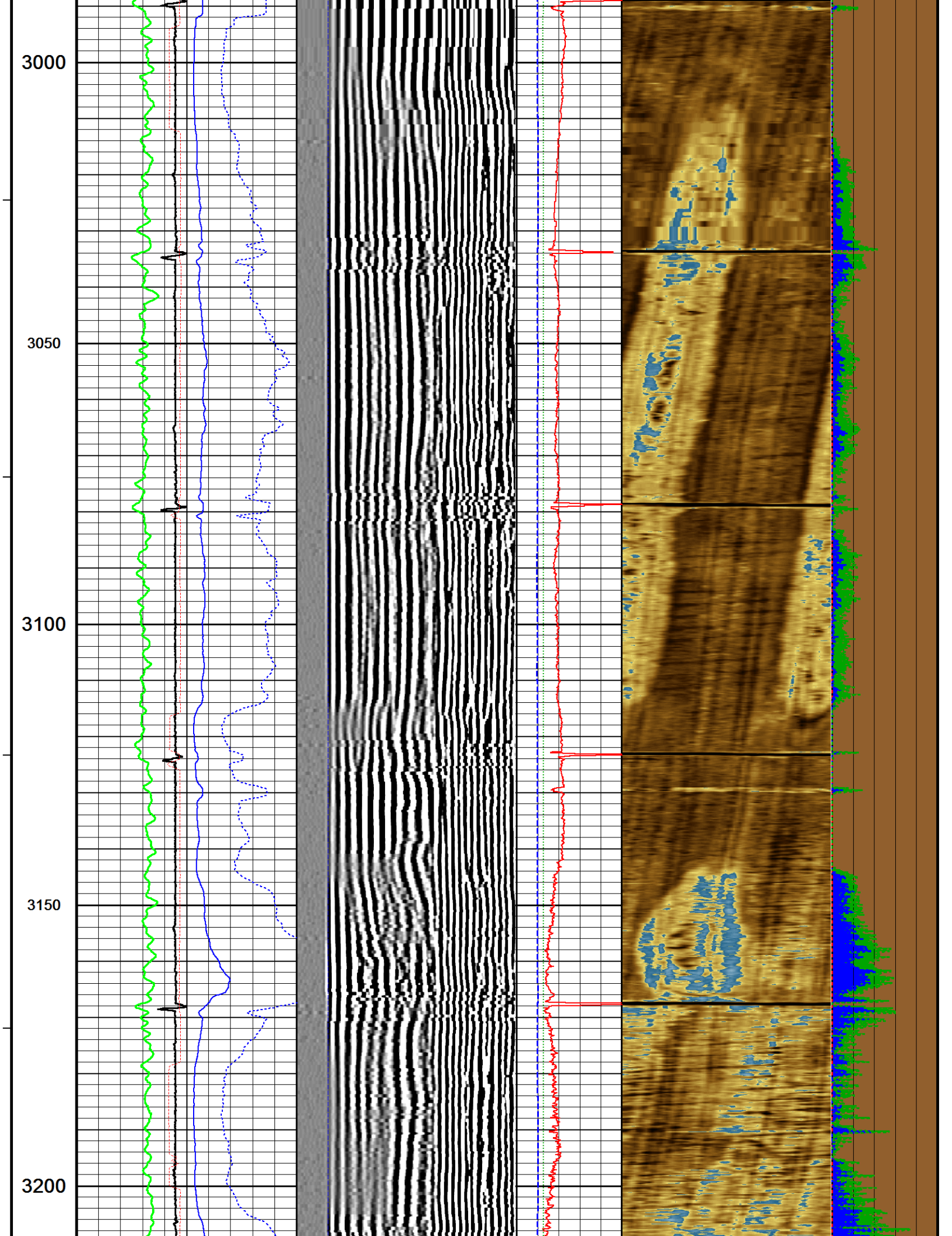




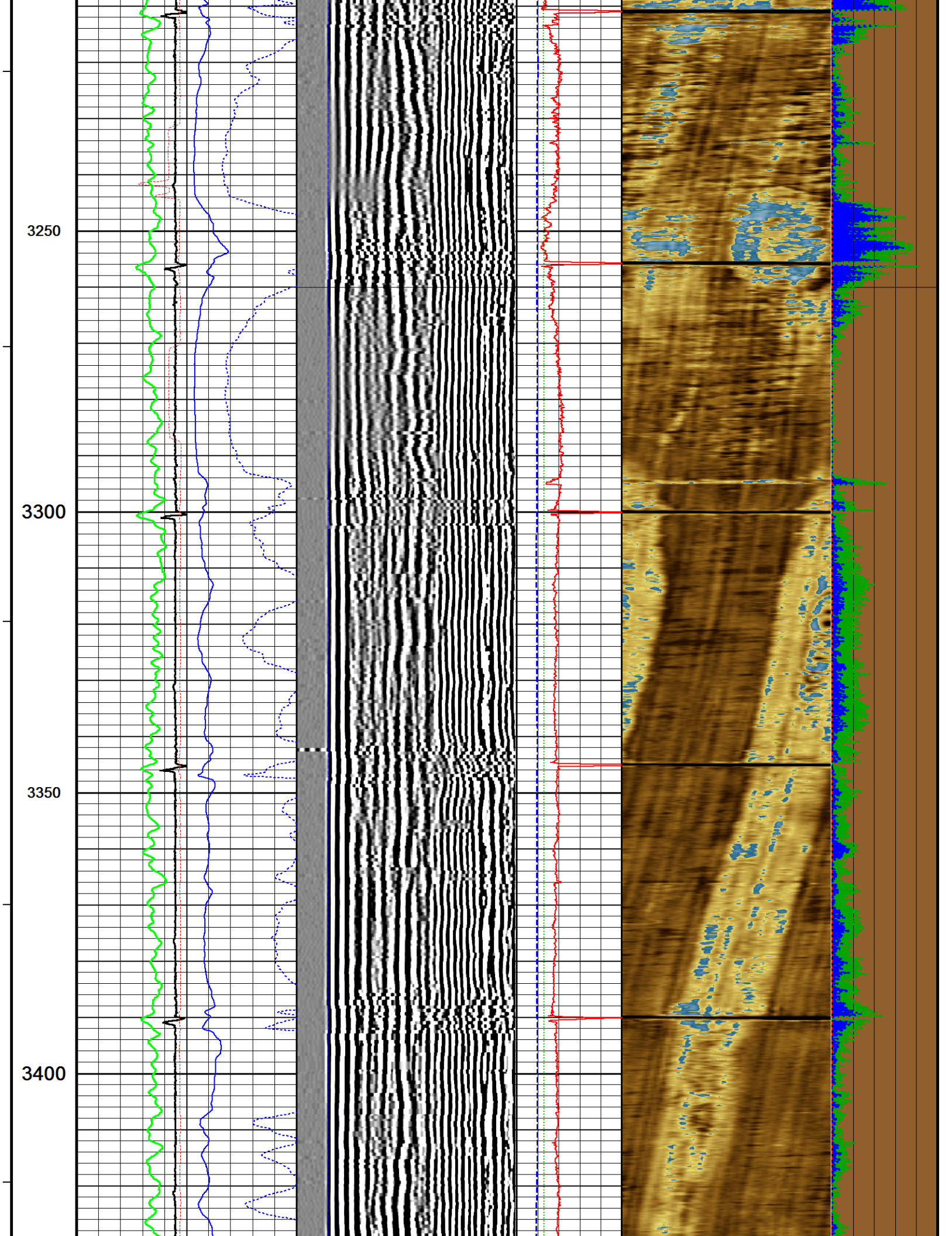


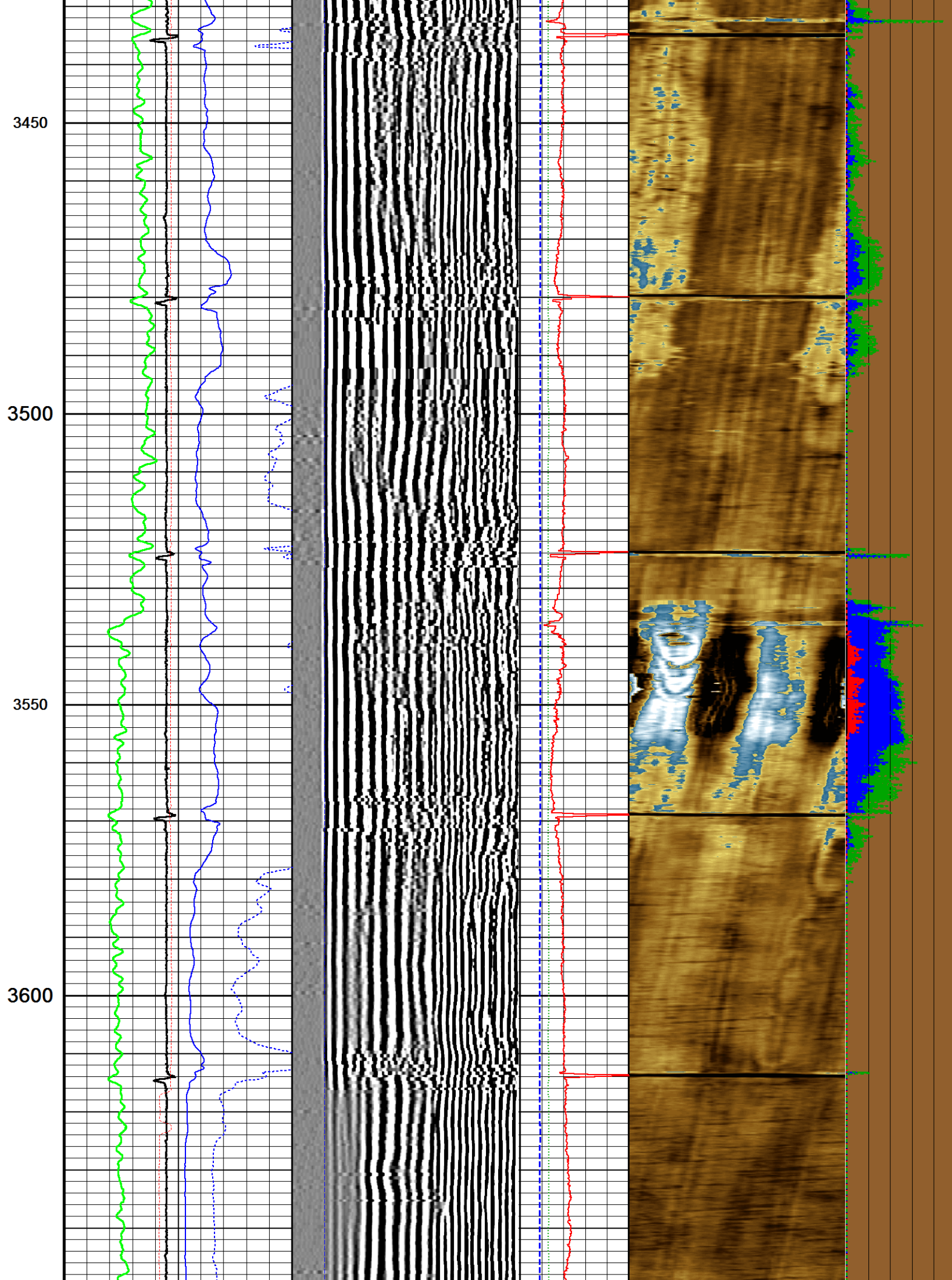




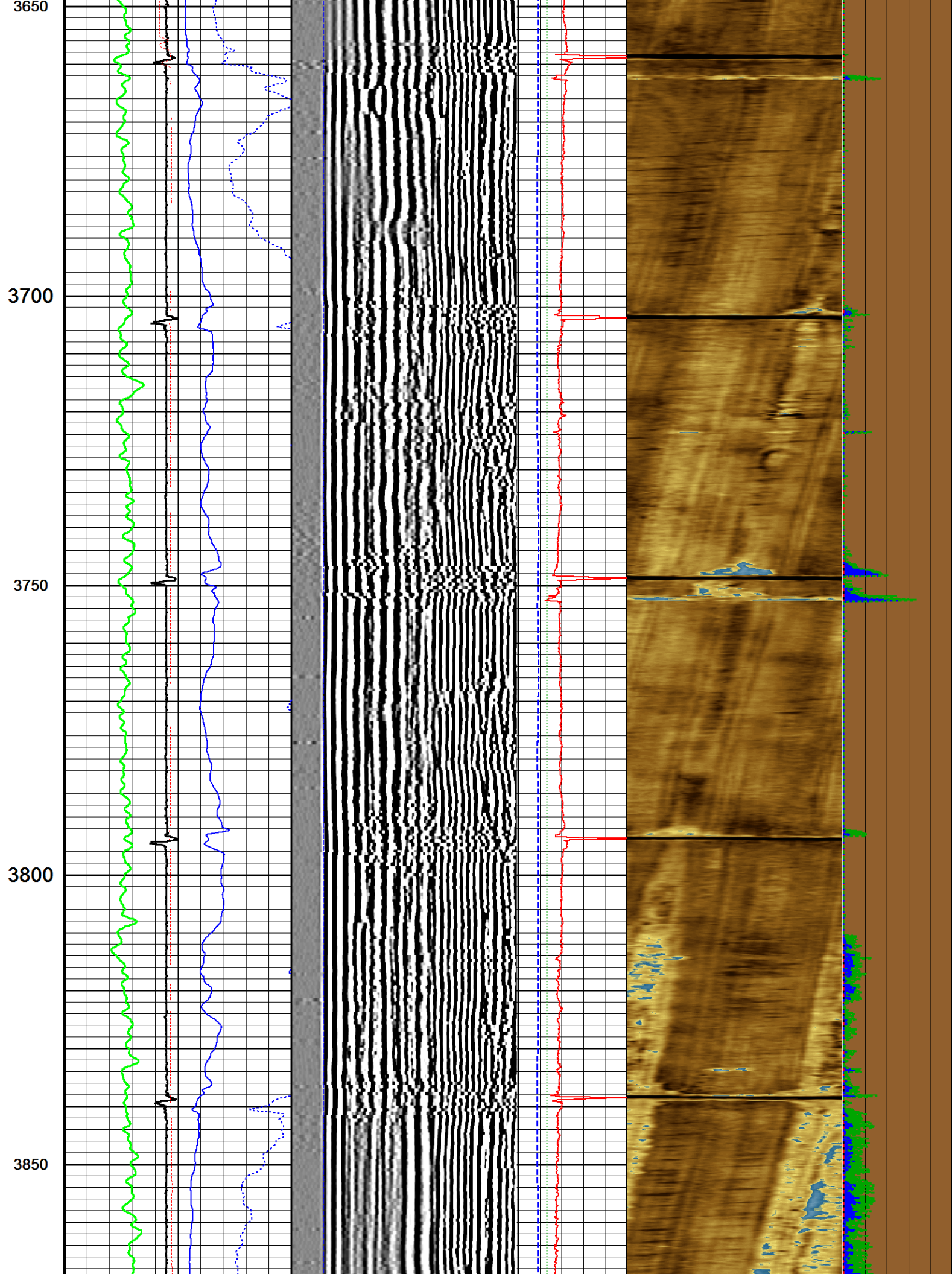


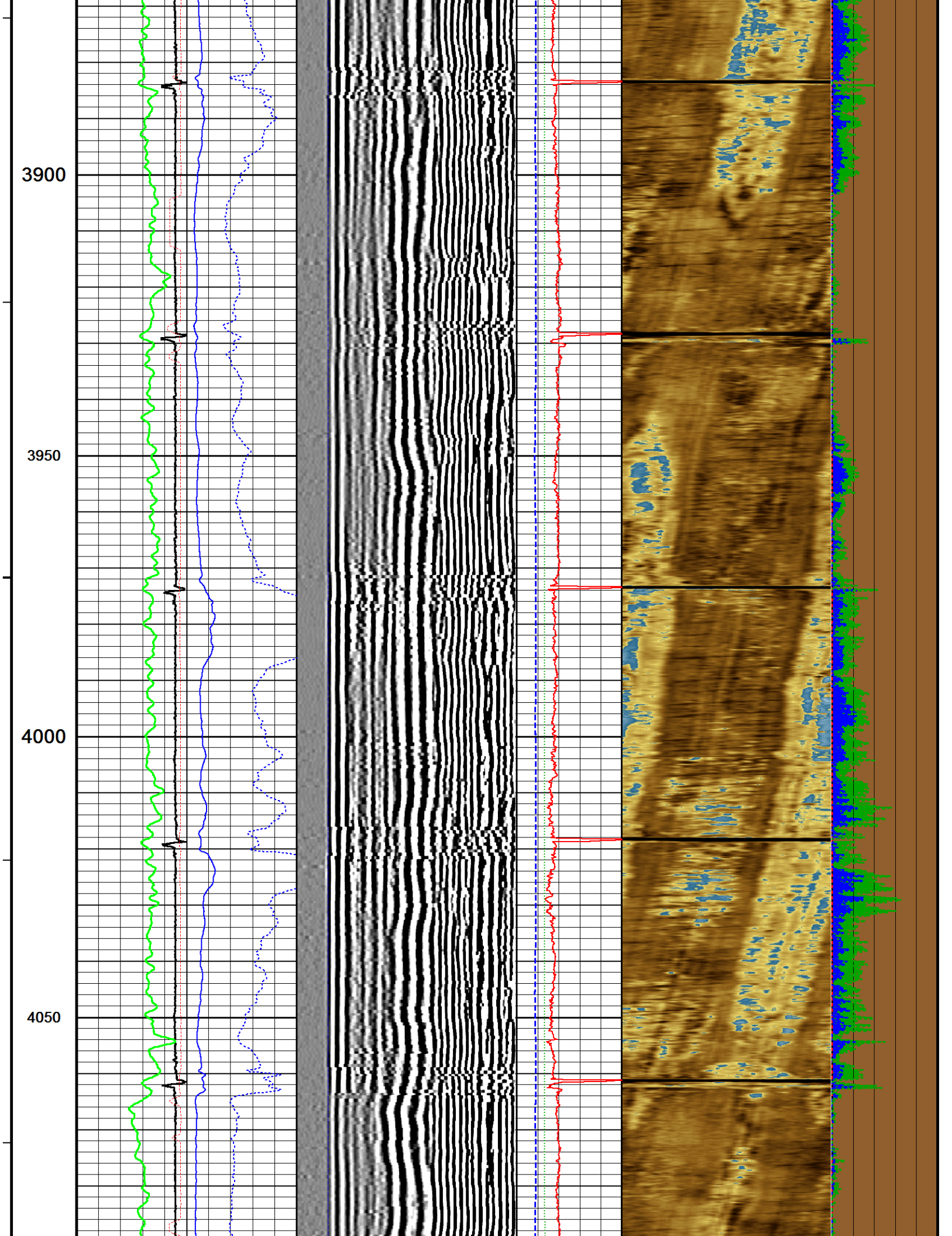




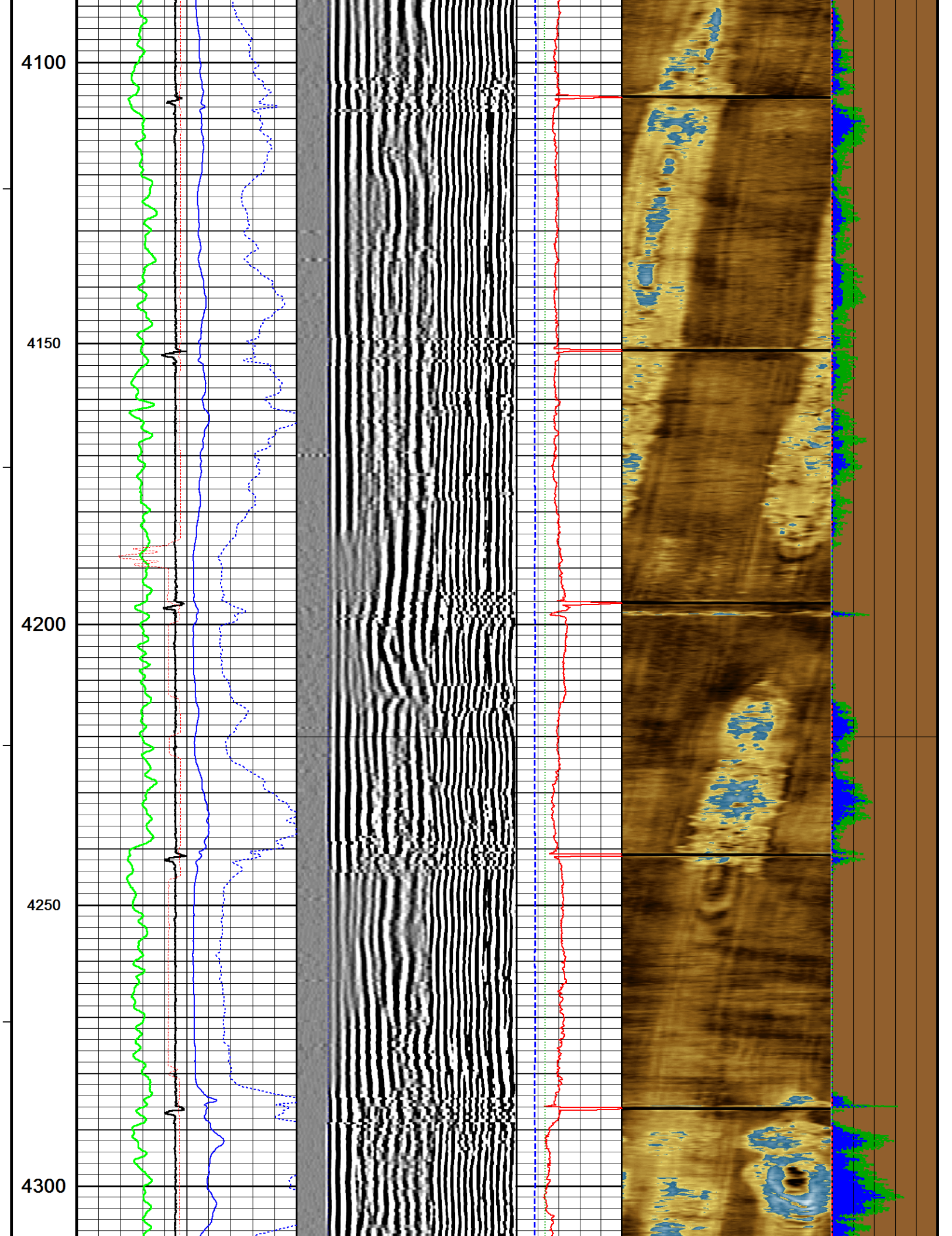


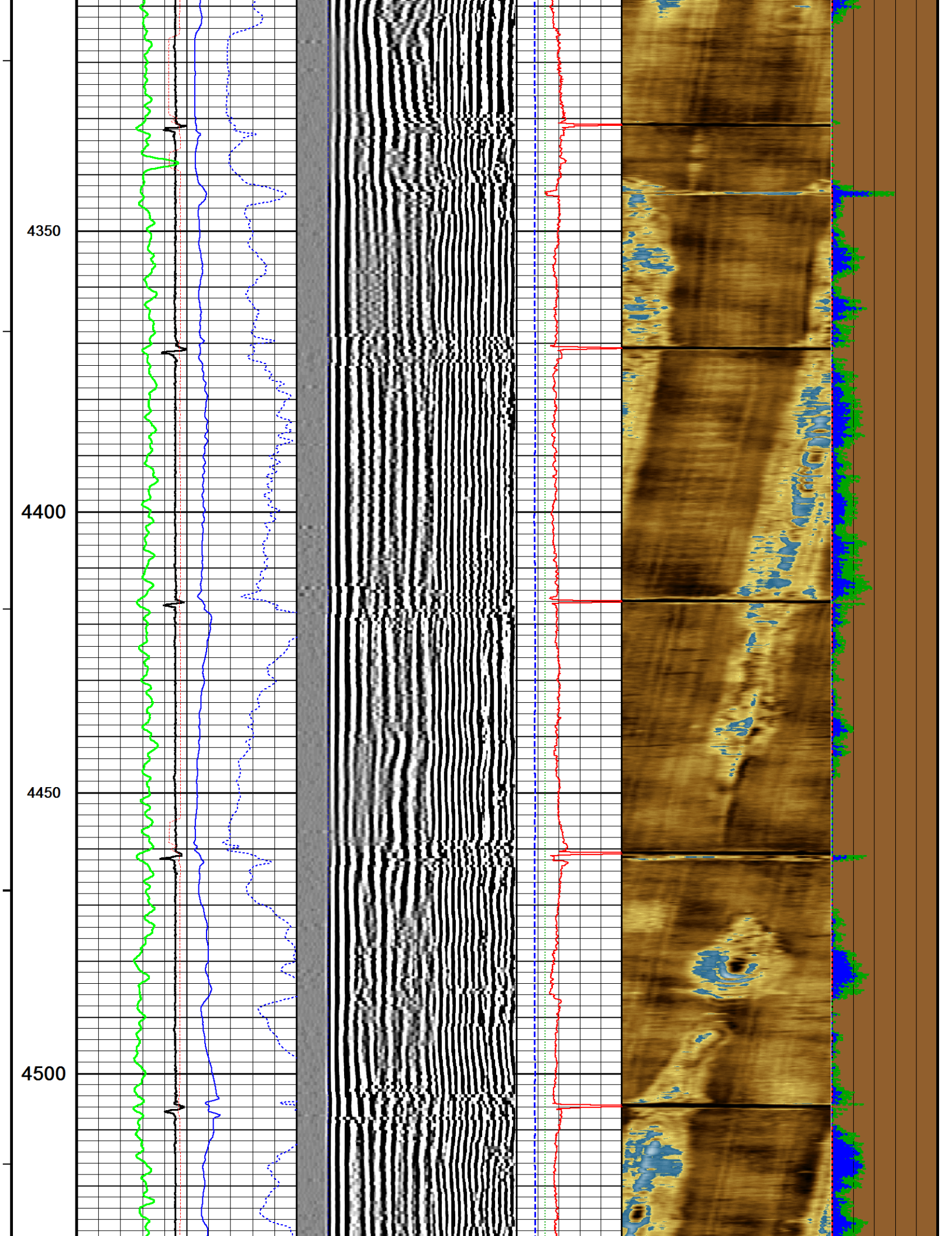




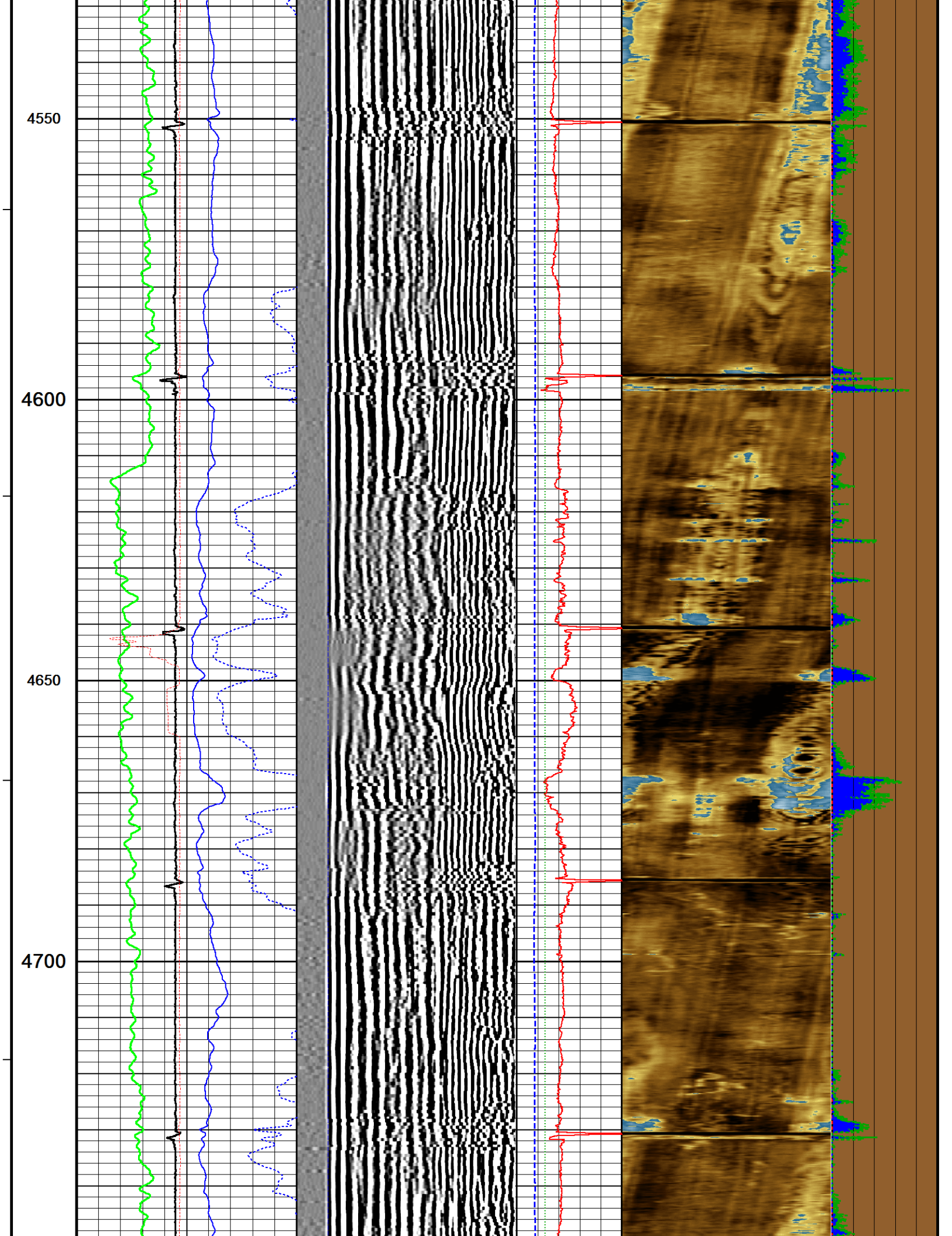


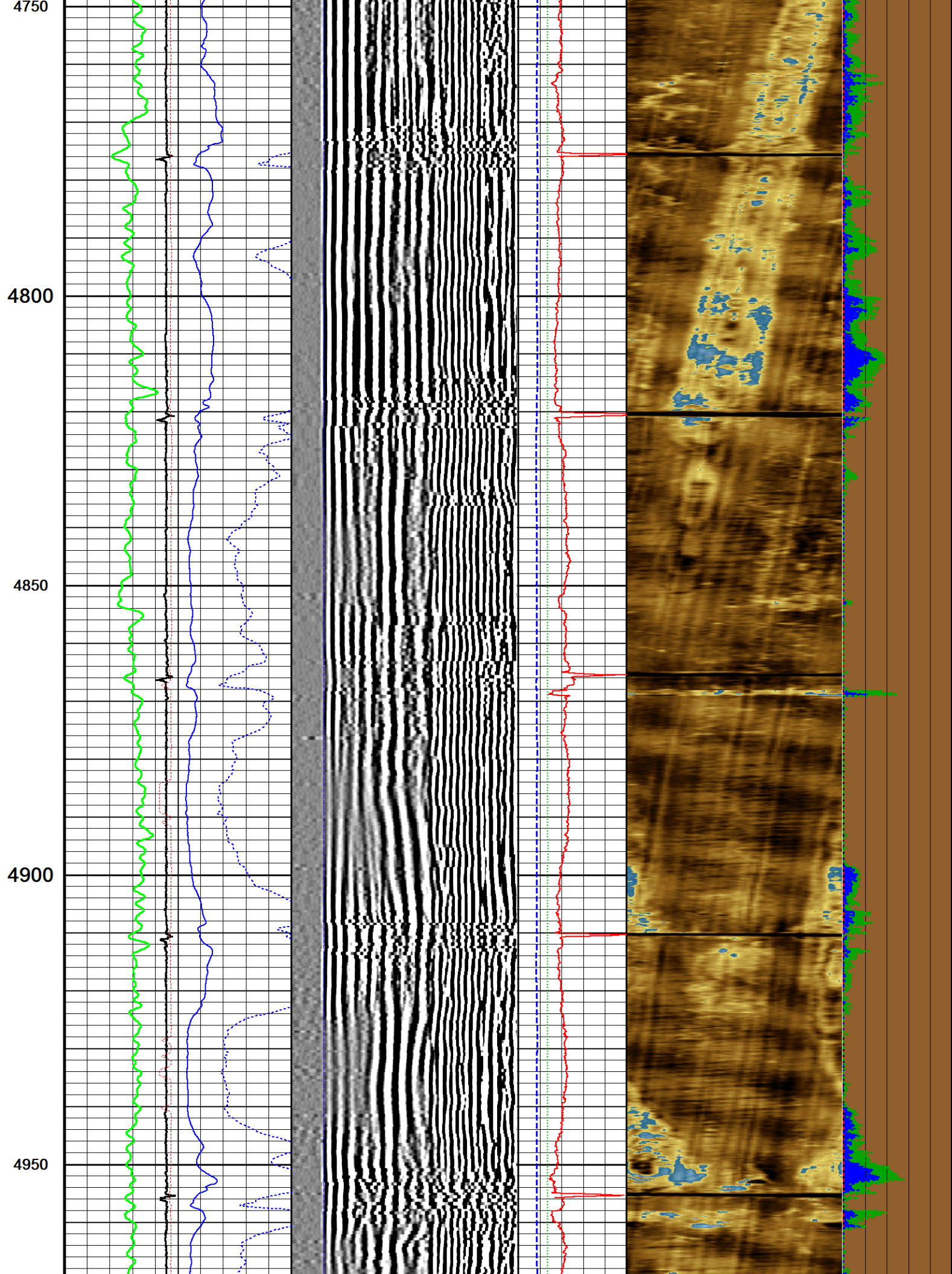




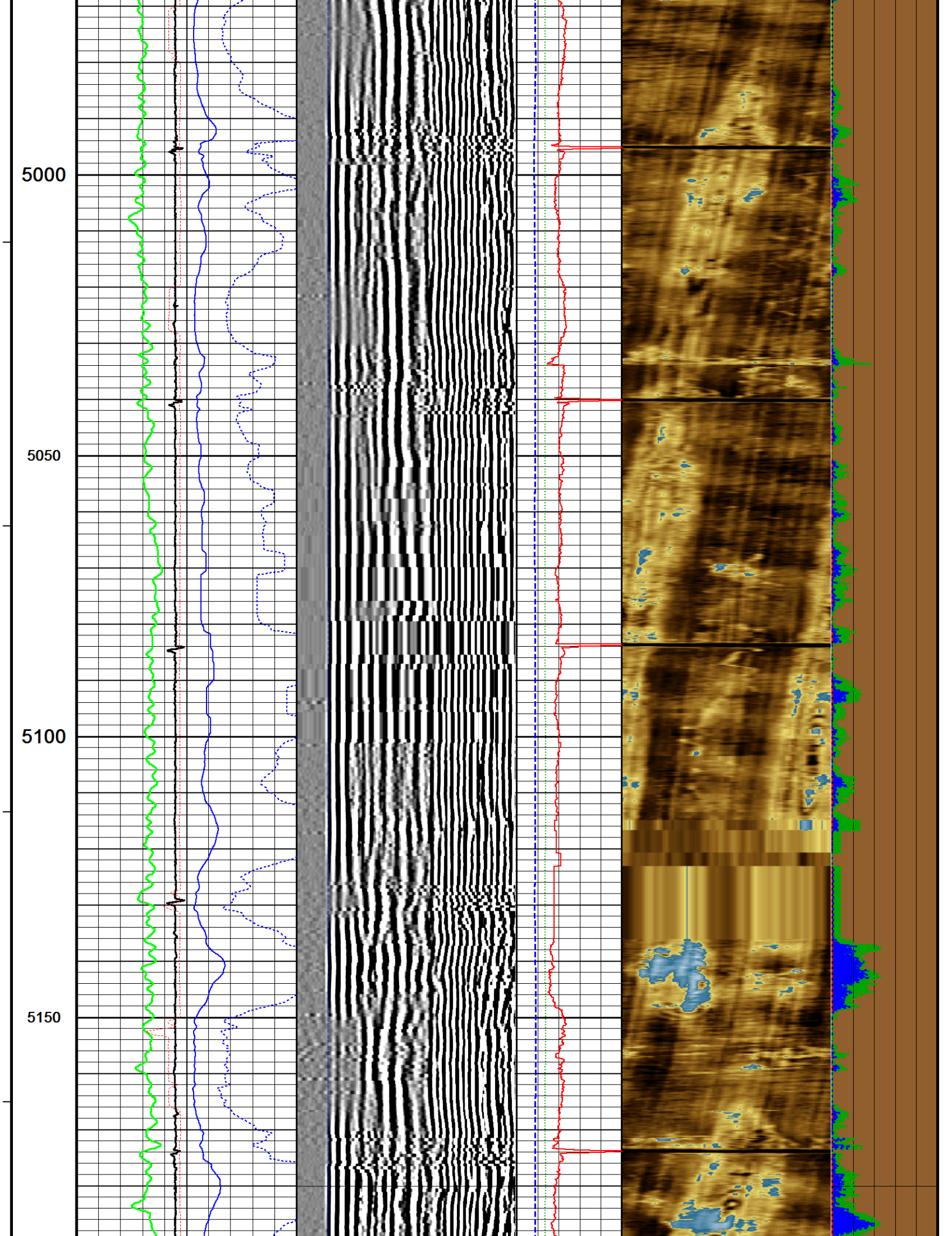


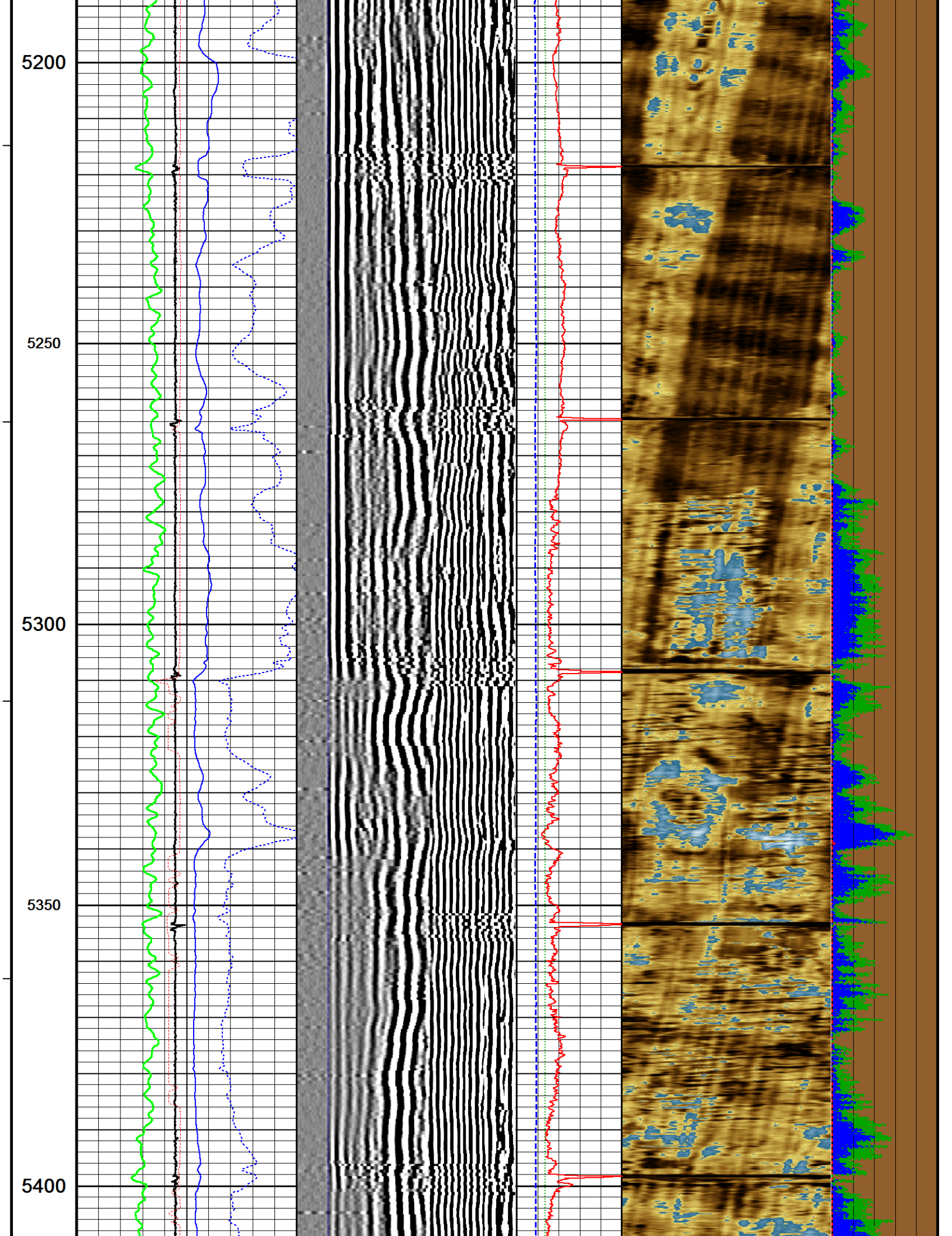




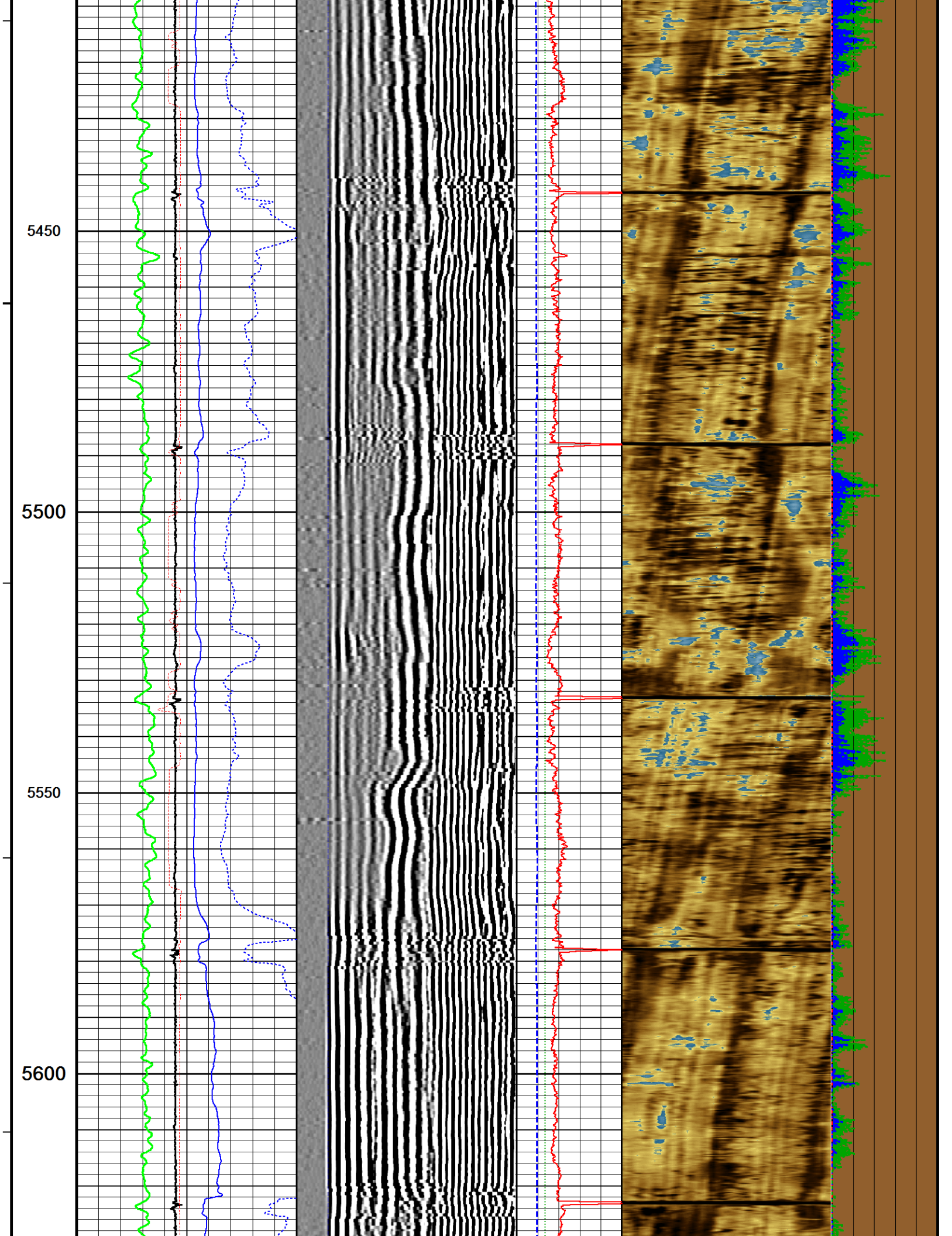


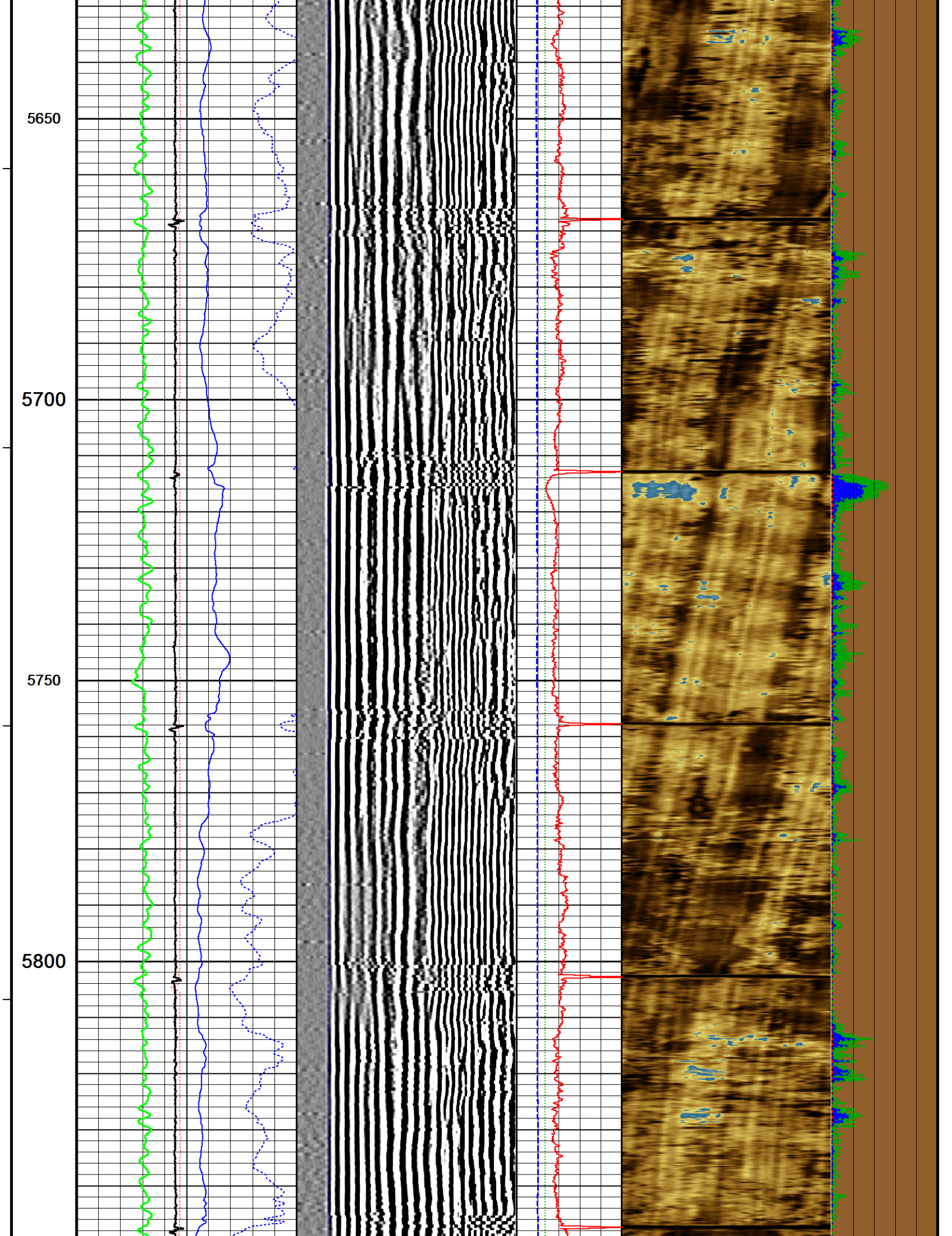




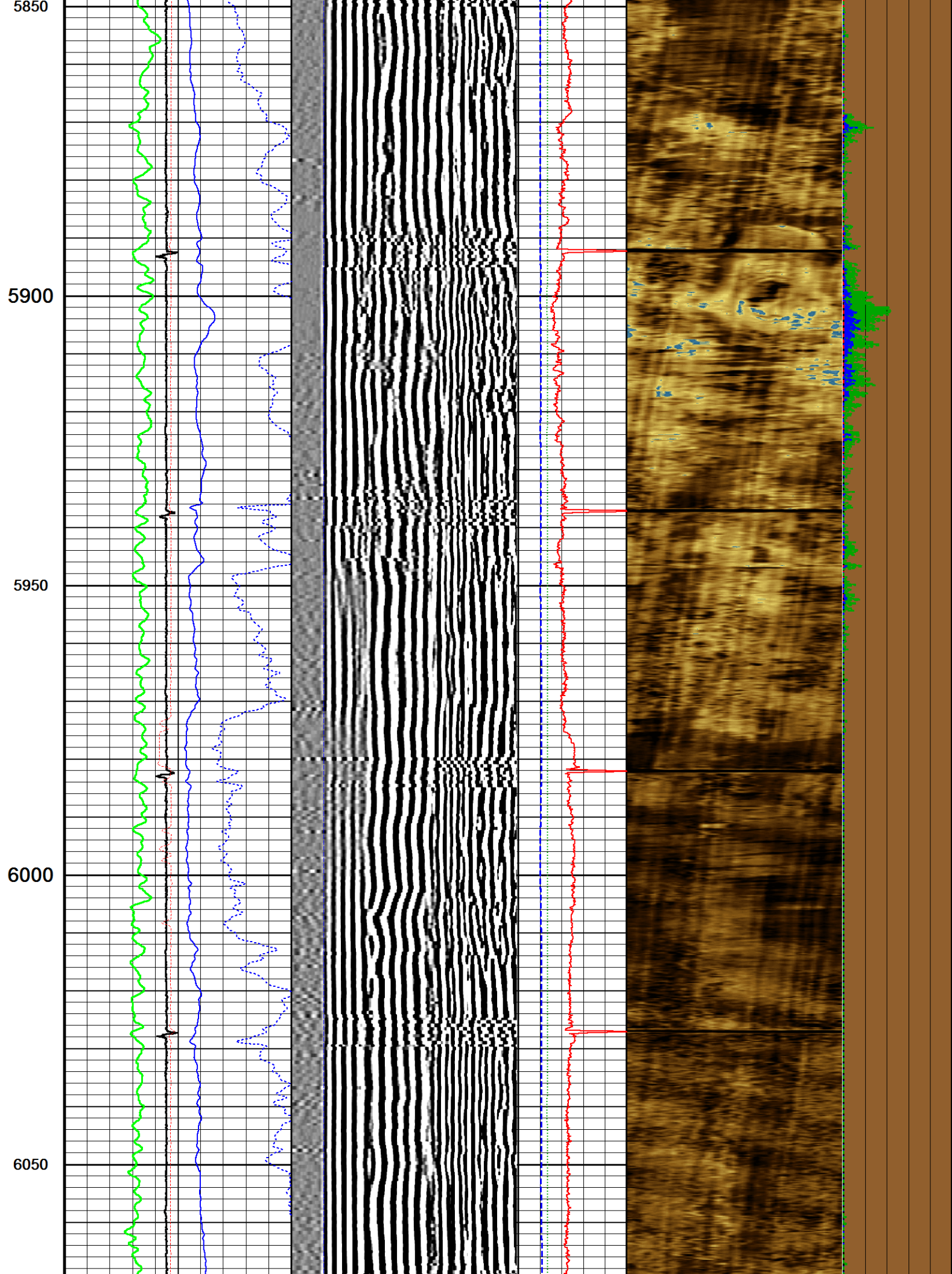


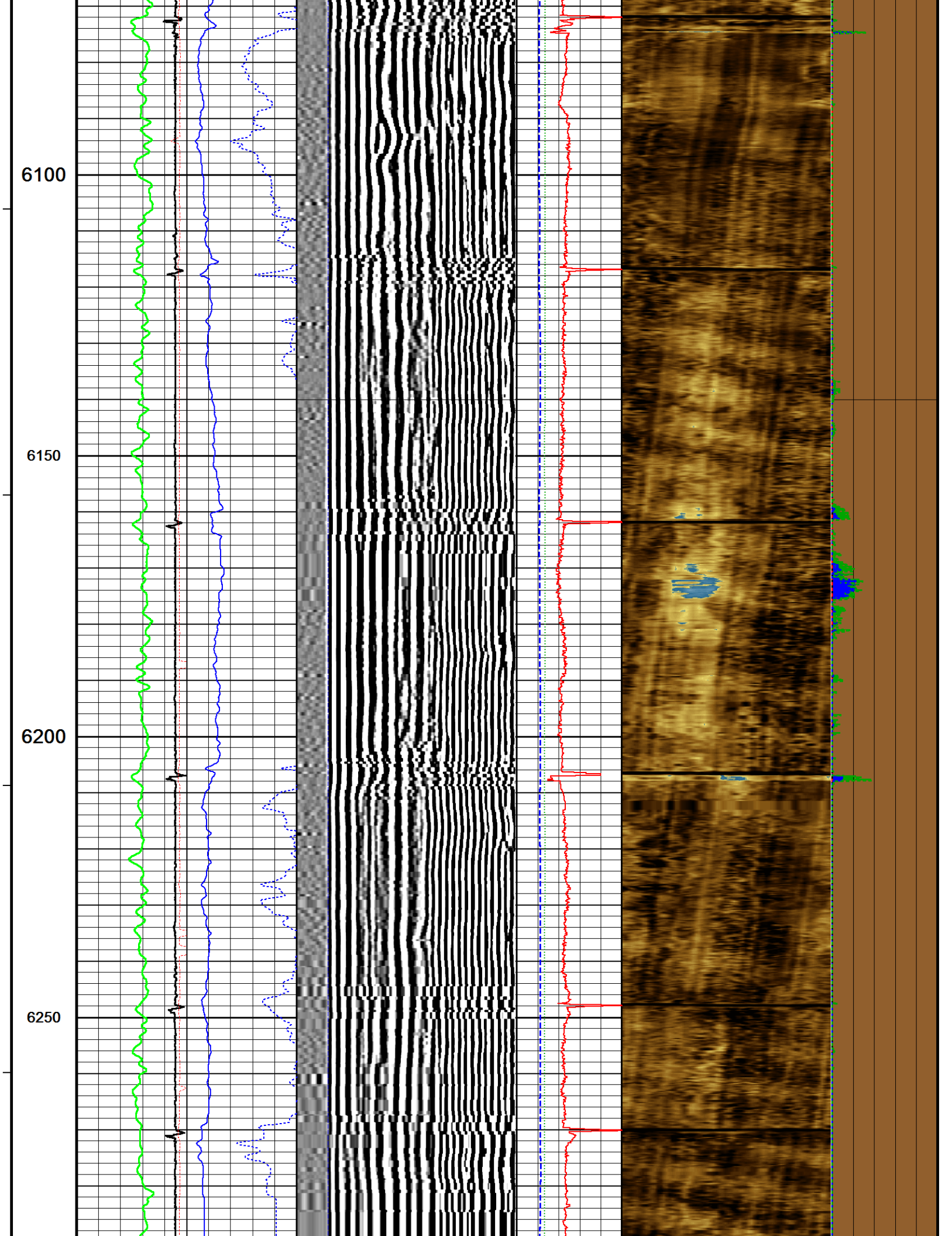




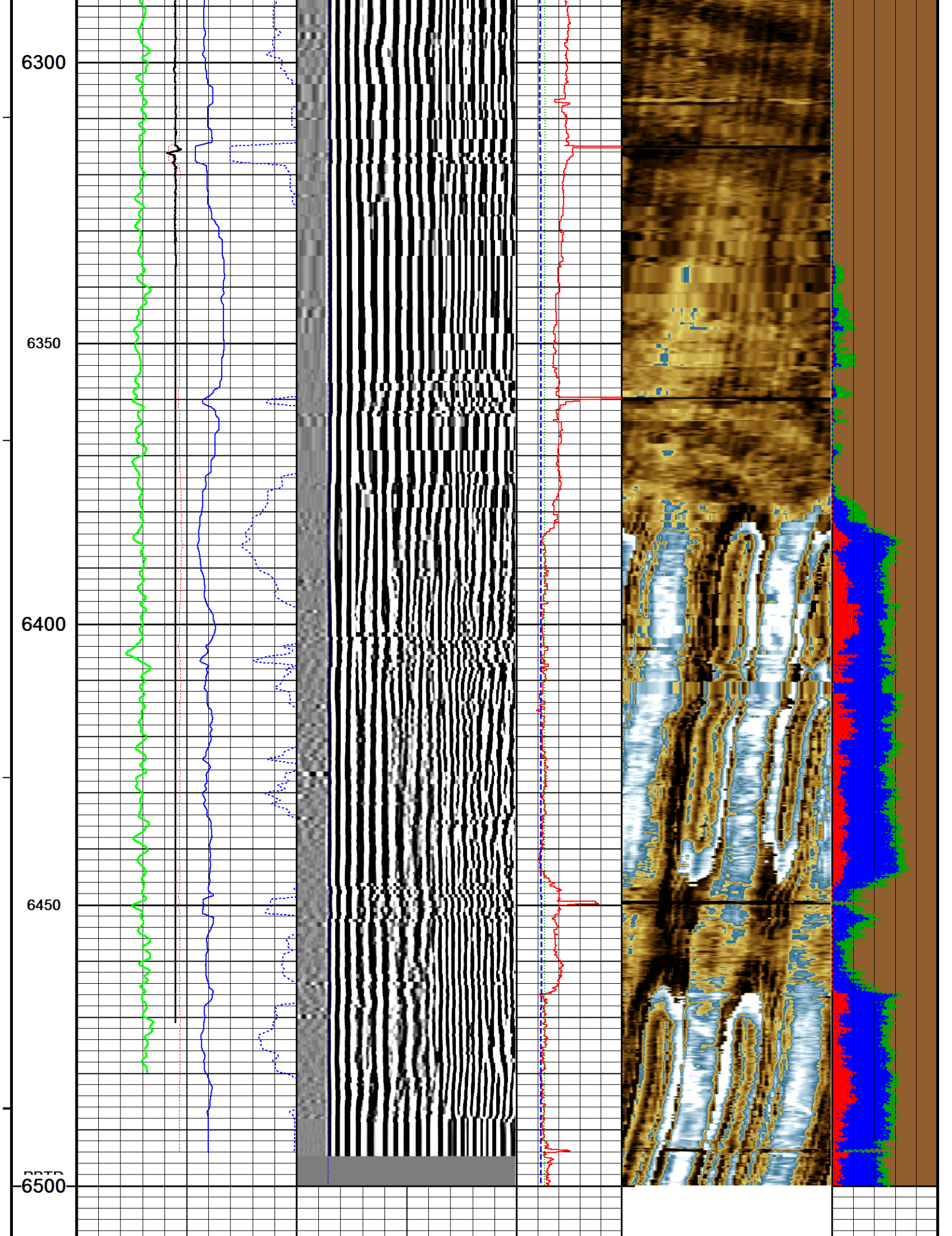


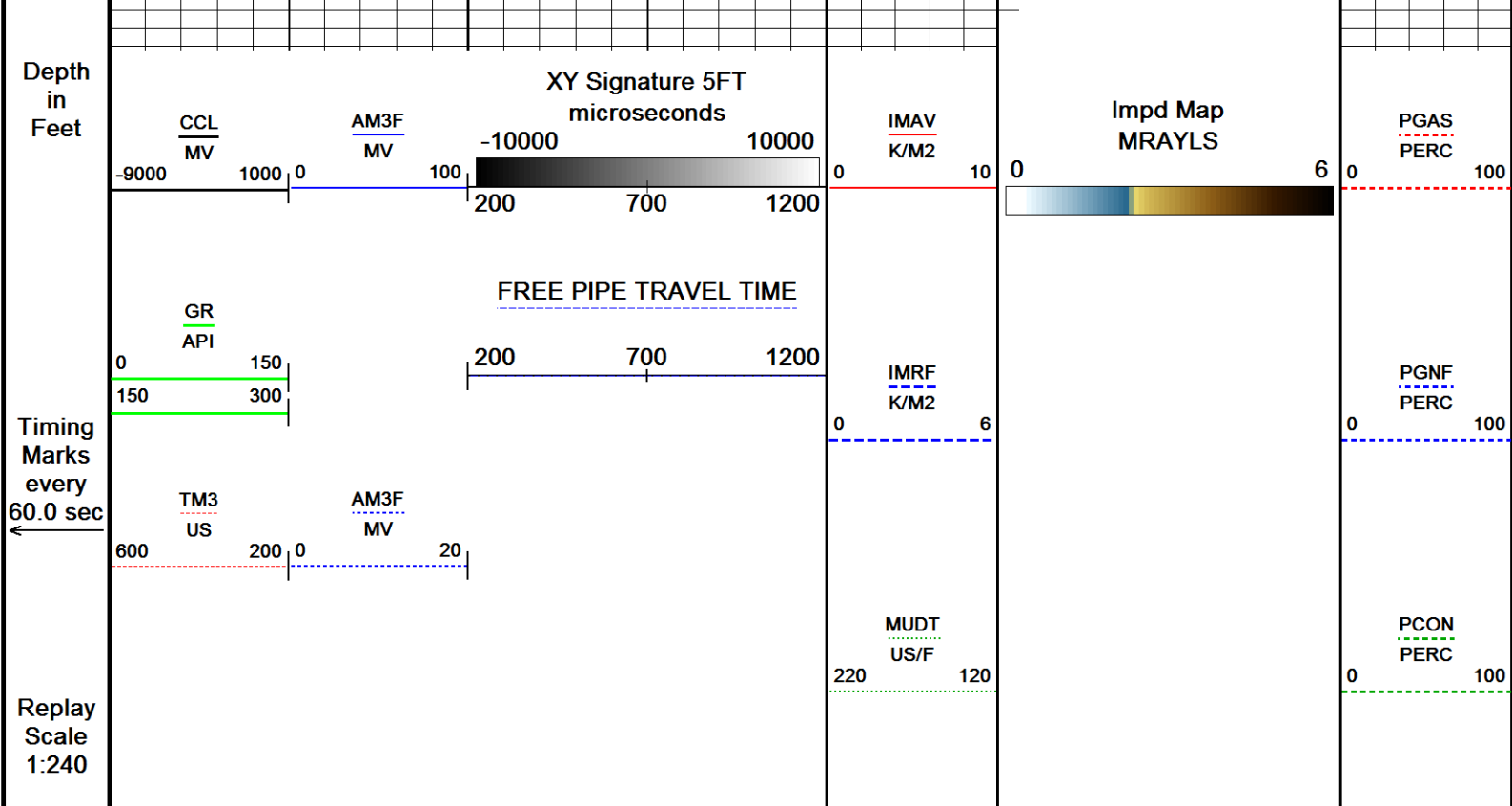












Depth Based Data - Maximum Sampling Increment 2.5cm

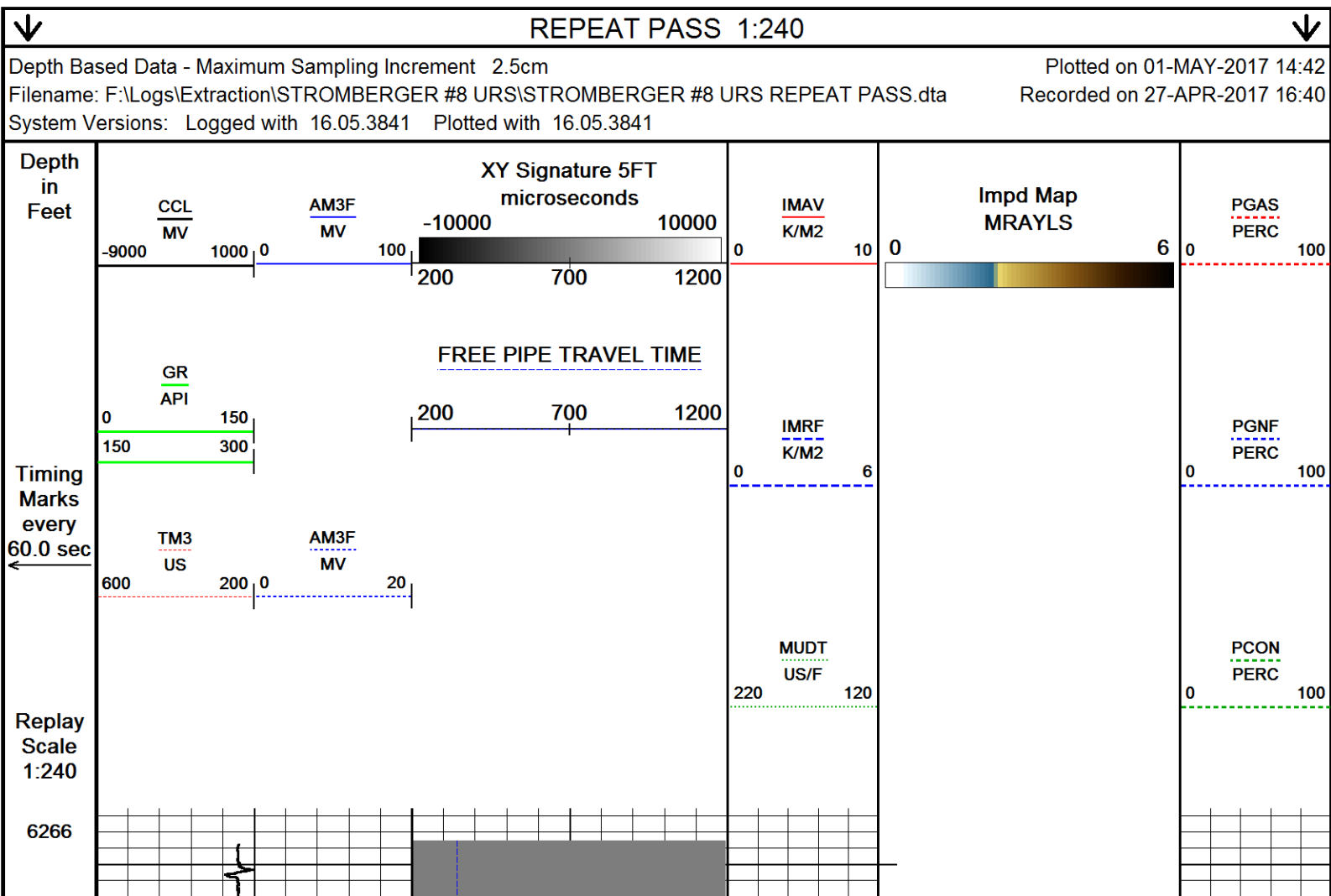
Filename: F:\Logs\Extraction\STROMBERGER #8 URS\STROMBERGER #8 URS MAIN PASS.dta

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

Plotted on 01-MAY-2017 14:42

Recorded on 27-APR-2017 16:46

MAIN PASS 1:240



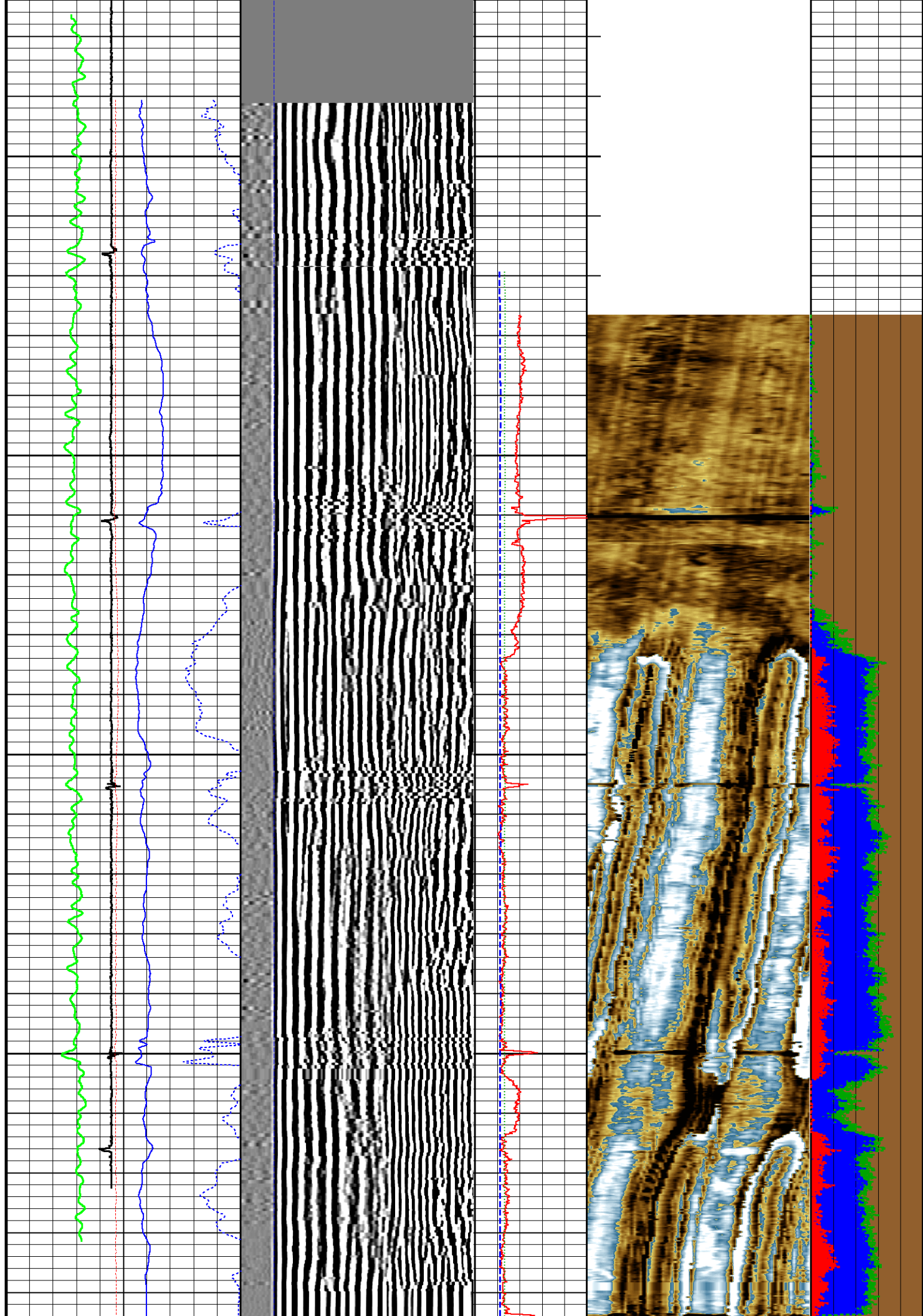


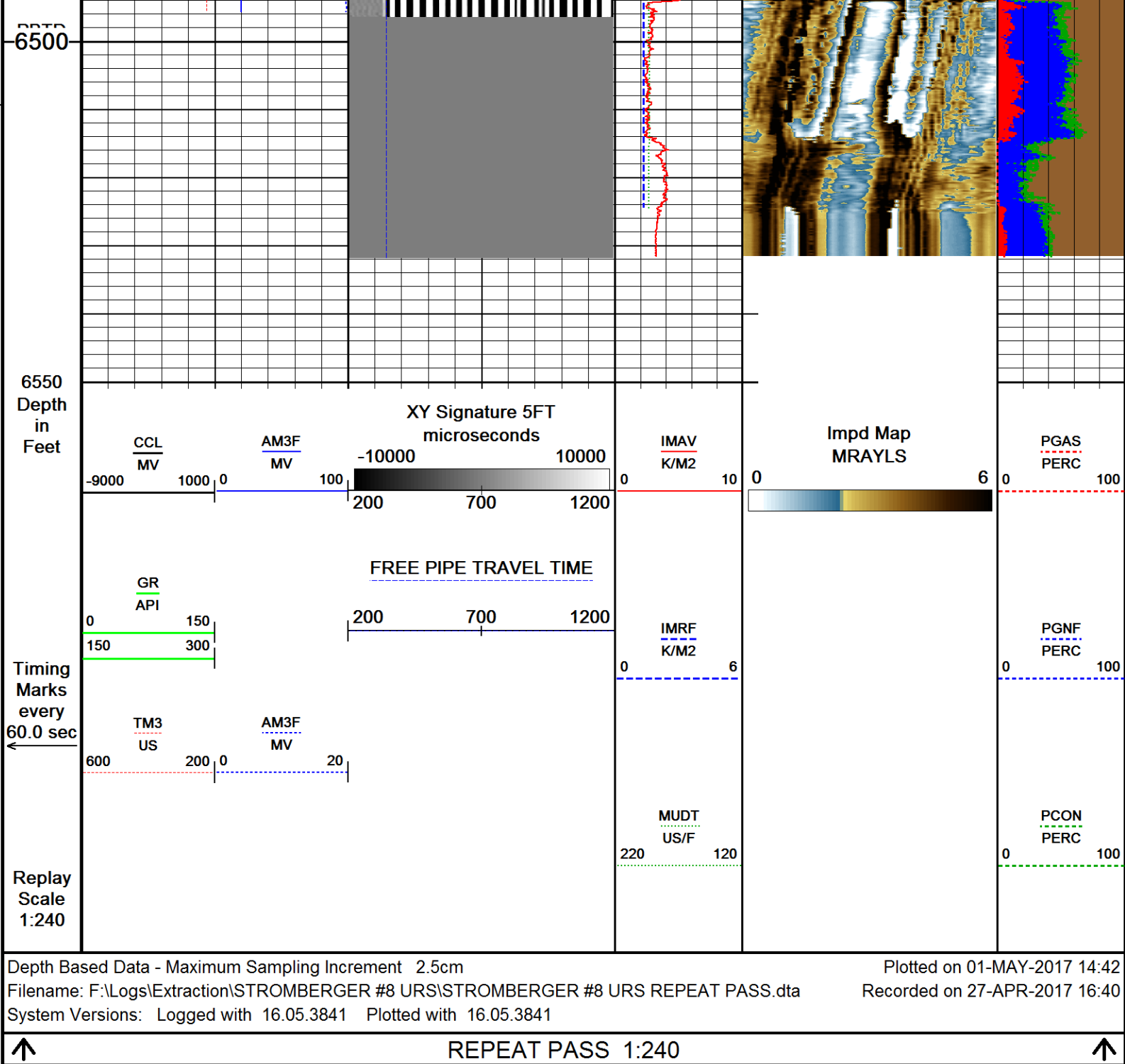
6300

6350

6400

6450





SHOP AND FIELD CALIBRATIONS

F:\Logs\Extraction\STROMBERGER #8 URS\STROMBERGER #8 URS MAIN PASS.dta

UGR Field Survey Cal					UGR-JD 223				
Field Calibration on 00-JAN-1988 00:00									
Gamma Ray Field Survey Calibration									
Tool Type: UGR-JD					Serial No: 223				
Calibrator No:									
Background		Calibrator		Standard		Units			
102.2		492.8		140.0		CPS			
Delta Counts Per Sec: 390.6					CPS/API = 2.790				



# CBT Field Calibration CBT-AA 108

Field Calibration on 29-MAR-2017 10:30

## Cement Bond Tool Amplitude Field Calibration

Tool Type CBT-AA Serial No 108

Free Pipe Depth

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	2.40	0.53
	Free Pipe	72.00	788.35
AMP 5 FT	100 % Bond	1.60	0.17
	Free Pipe	48.00	223.63

# CBT Constants CBT-AA 108

Last Edited on 27-APR-2017 16:45

Min Ampl 100% Bond	2.00 MV
Max Ampl 0% Bond	72.00 MV
Cement Cmpr Strength	135 PSI
Casing Size	5.50 IN
Casing Weight	20.0 LB/F
Casing Velocity	57.00 US/F
DT Fluid	204.0 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 31-JAN-2017 11:09

## 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	3.730	0.000	0.000	K/M2

# URS Constants USH-AB 136

Last Edited on 27-APR-2017 16:45

\*\*\* 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	4.00
ZMud Cal Area Ratio	3.75

**\*\* Depth Specific Settings \*\***

Dpth Intvl Min(F)	Dpth Intvl Max(F)	Cs Sz (IN)	Cs WT (LB/G)	ZHd Cal ARatio	ZMd Cal ARatio	Thk (IN)	Harmnc K Factor
0.00	17120.00	5.50	20.00	3.53	3.73	0.36	1.00

**\*\* 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	1.70 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**

F:\Logs\Extraction\STROMBERGER #8 URS\STROMBERGER #8 URS 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 122 LG: 1.05 ft WT: 15.4 lb OD: 3.386 in

Swivel Head 55 pin  
SWH-CC 164 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 126 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in



59.48 ft CCL - Collar Locator



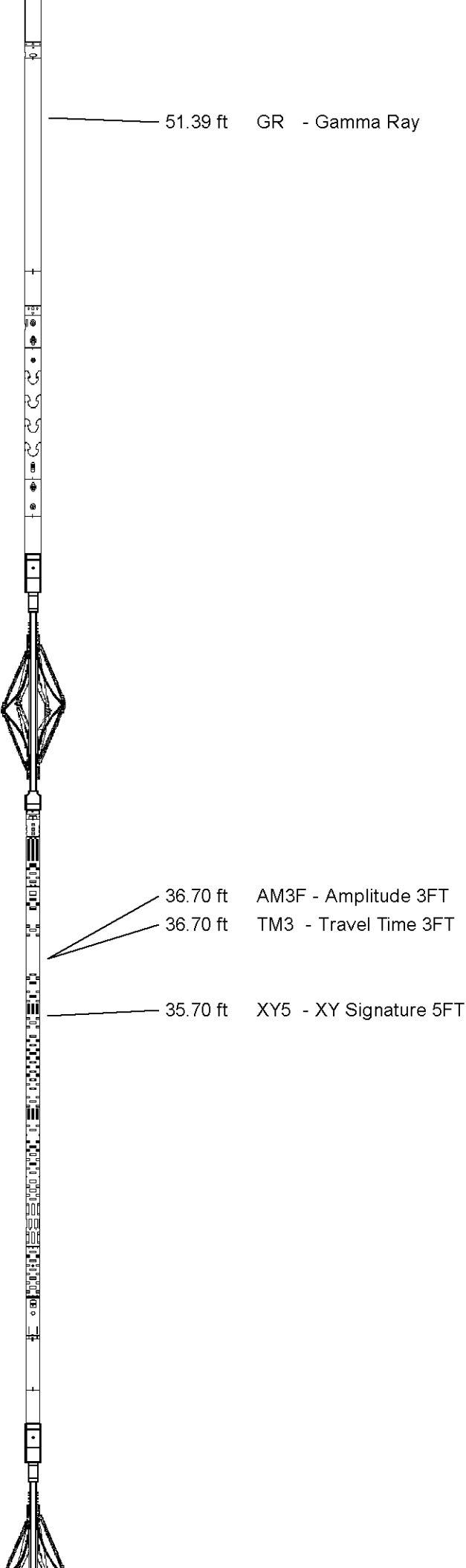
Gamma Ray  
UGR-JD 223 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

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 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

Cement Bond Tool  
CBT-AA 108 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in

55 pin Roller Centralizer  
CEN-XA 203 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

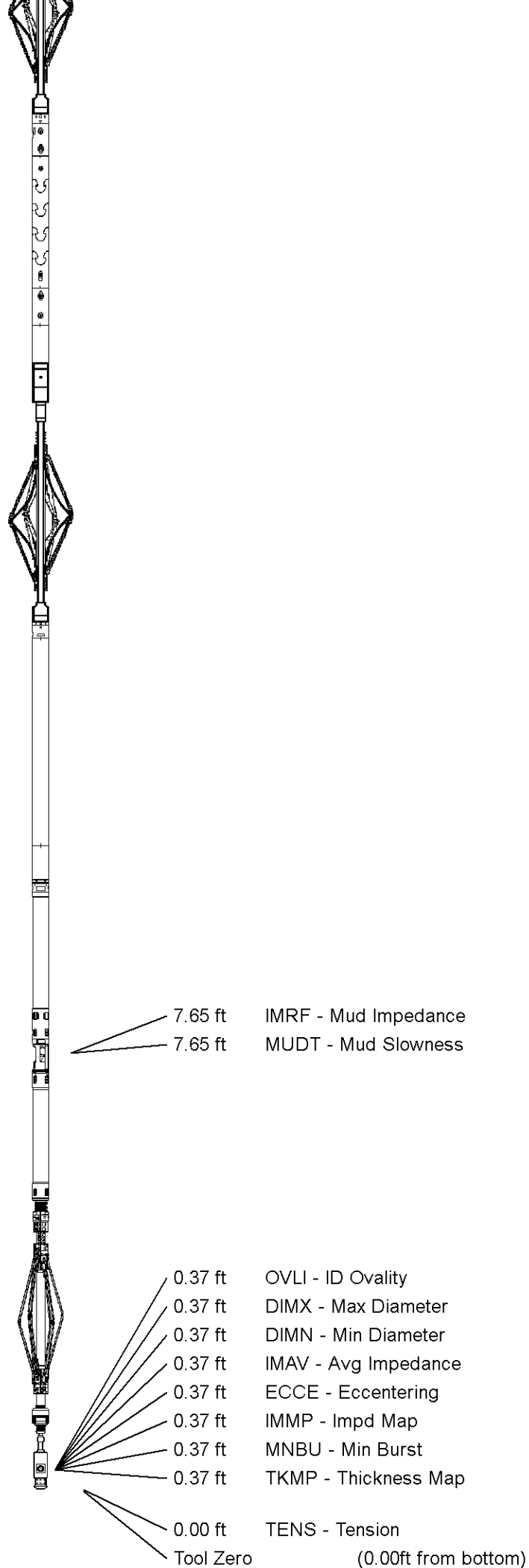
55 pin Roller Centralizer  
CEN-XA 196 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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





COMPANY	EXTRACTION OIL AND GAS
WELL	STROMBERGER #8
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	feet	Bottom Log Interval	6500.00	feet
Elevation Drill Floor	feet	Depth Driller	16709.00	feet
Elevation Ground Level	feet	Depth Logger	6500.00	feet

  
**Weatherford**<sup>®</sup>

SECUREVIEW  
ULTRAVIEW / BONDVIEW  
CEMENT ANALYSIS