

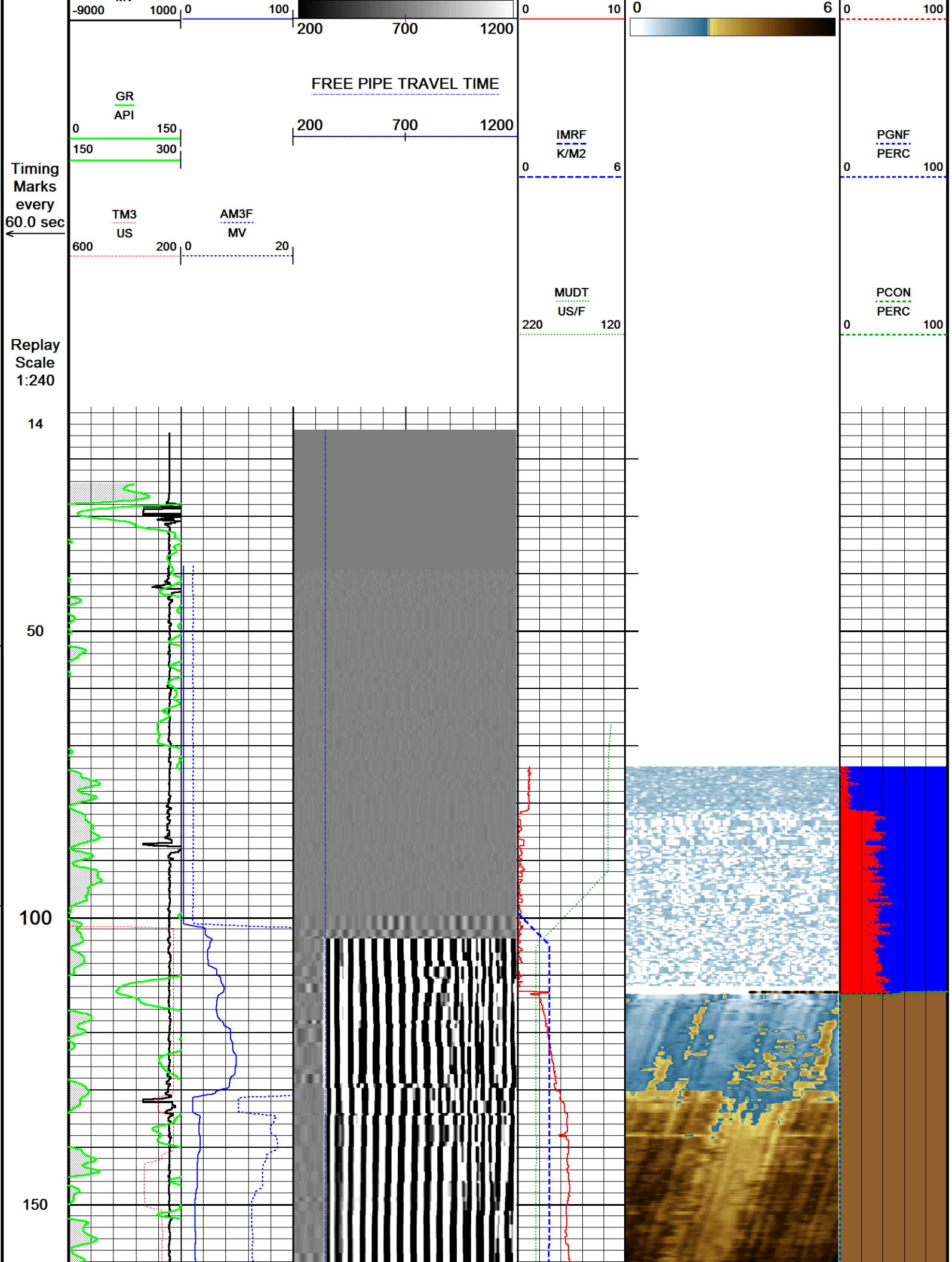


LOCATION

Elevations:	feet
KB	5032.00
DF	5032.00
GL	5004.00

1000

Depth in Feet	CCL MV	AM3F MV	XY Signature 5FT microseconds -10000 10000	IMAV K/M2	Impd Map MRAYLS	PGAS PERC
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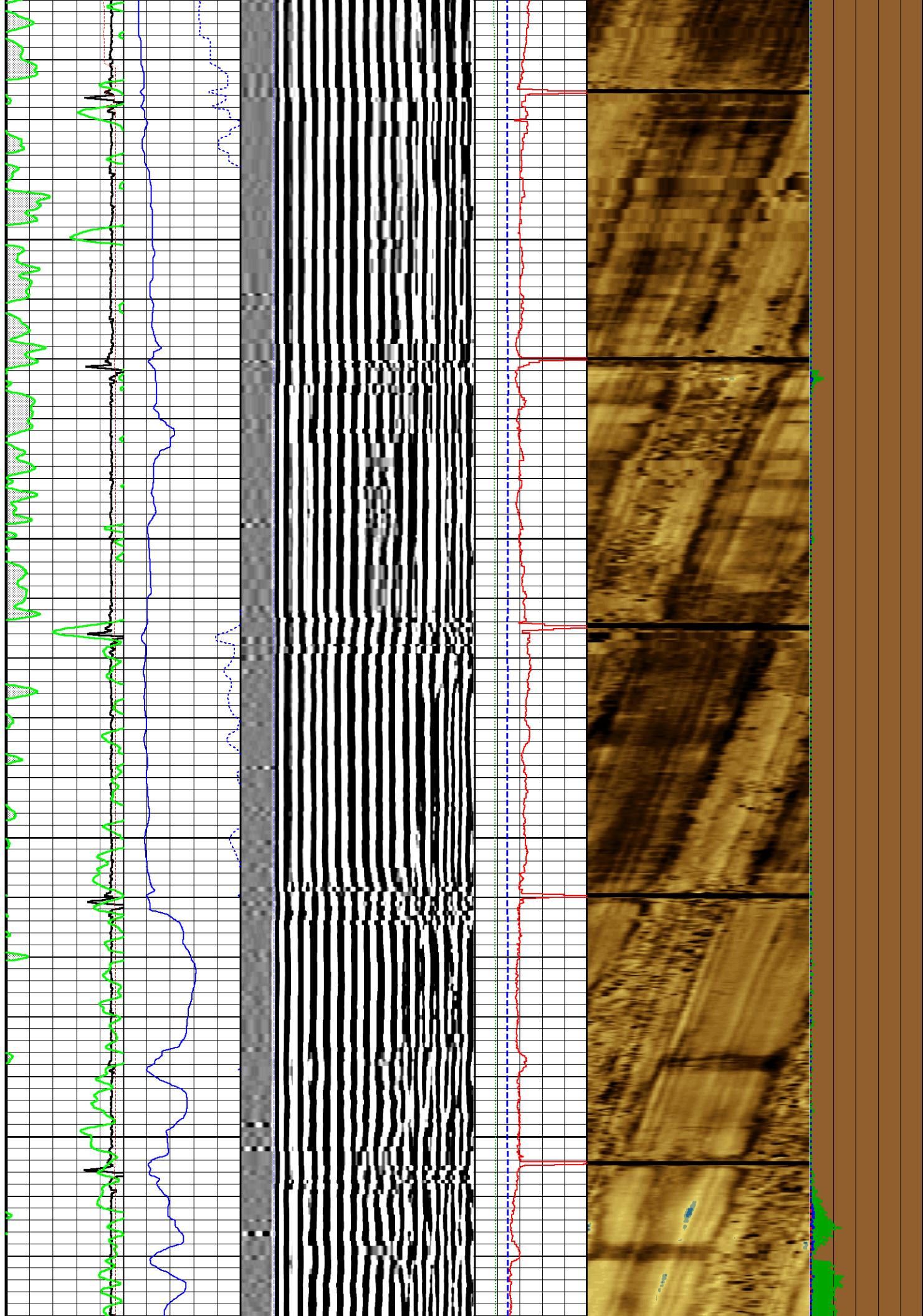


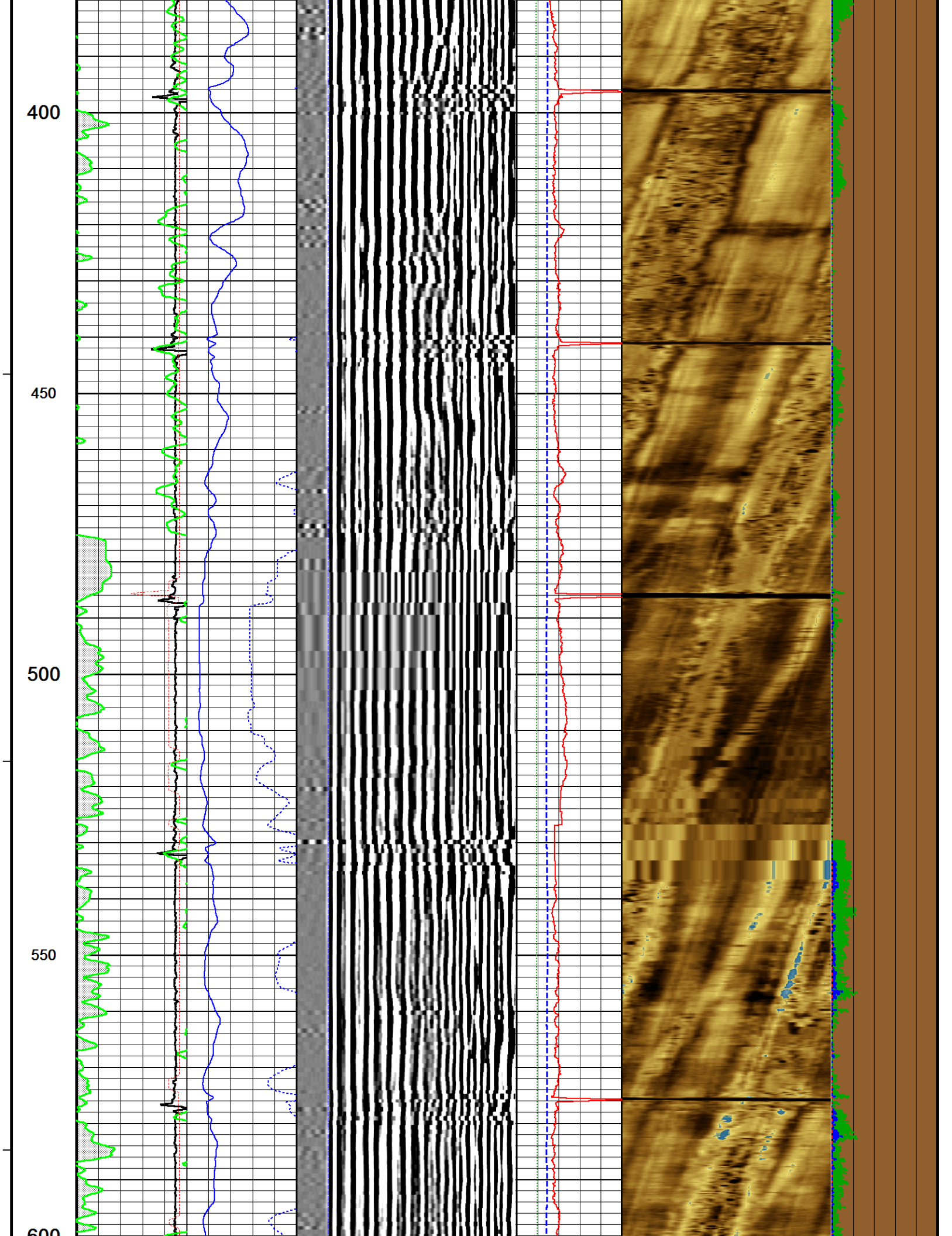
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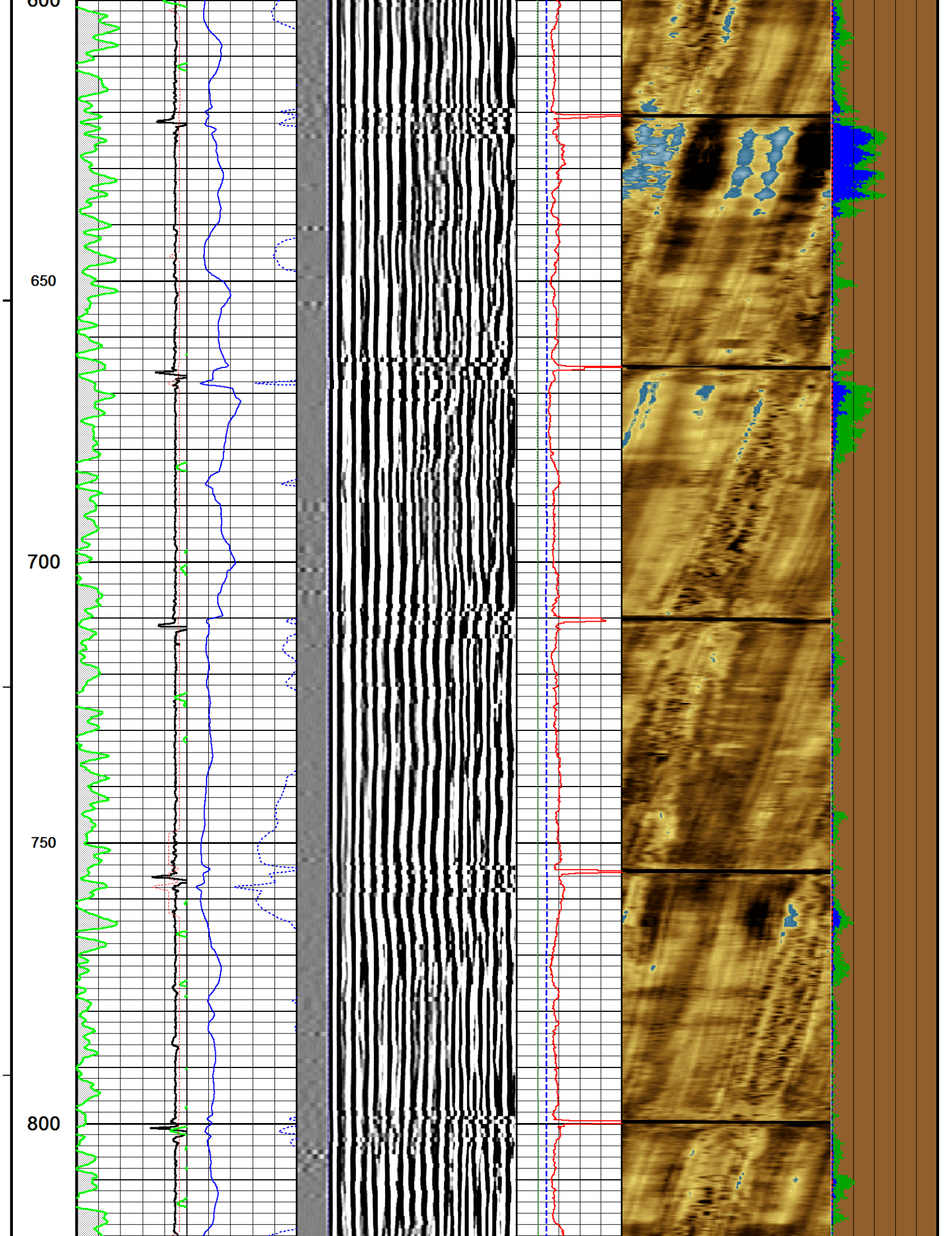
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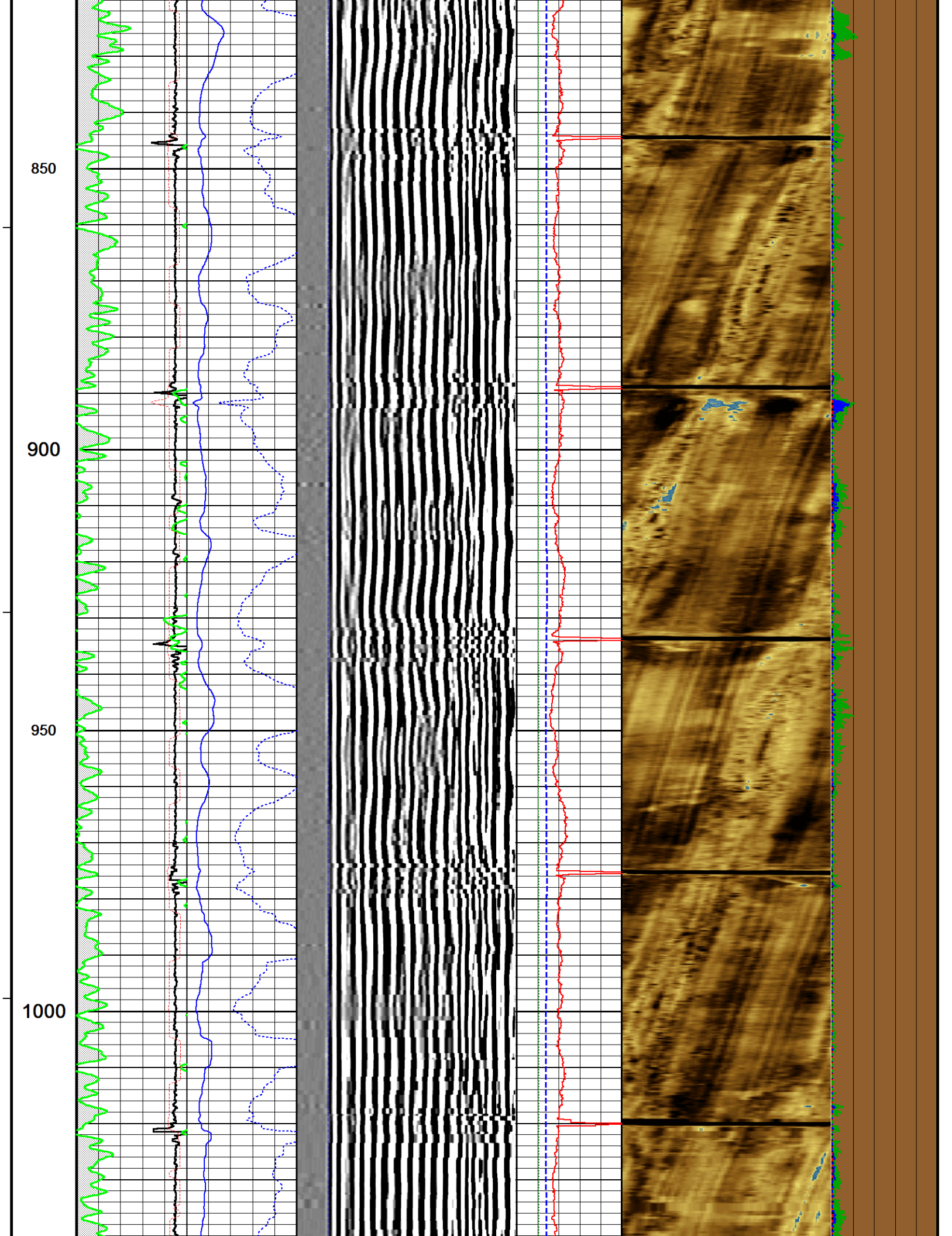
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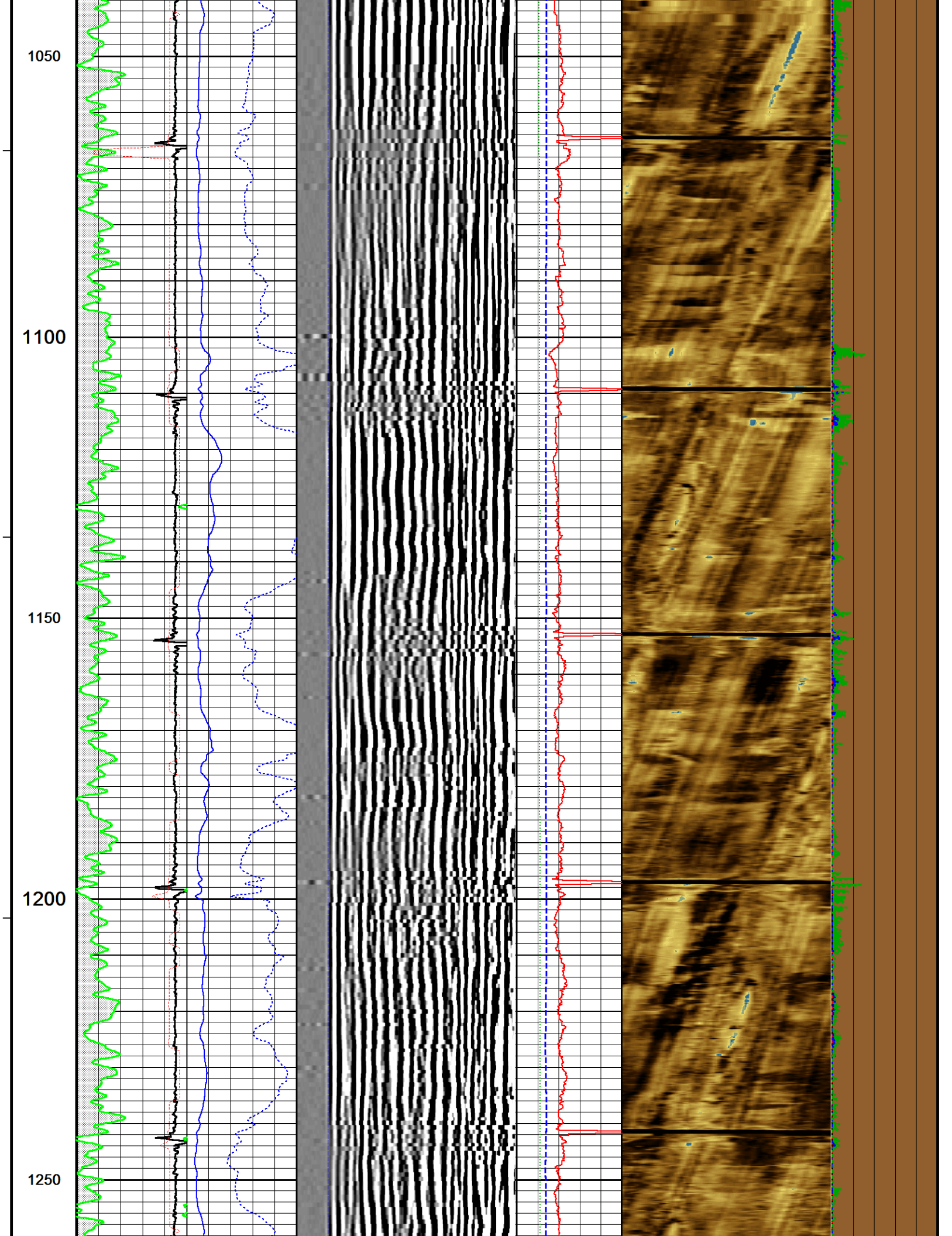
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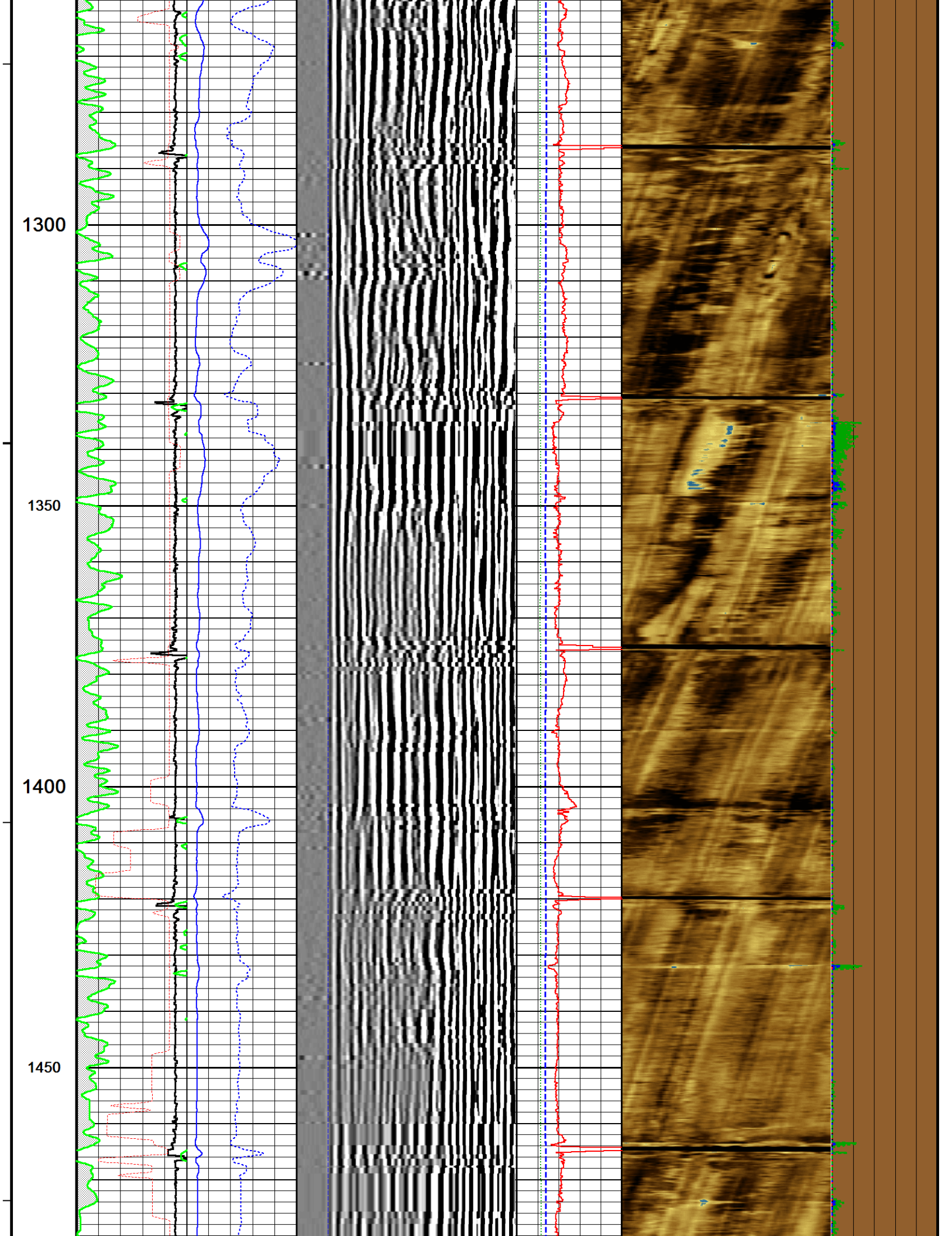


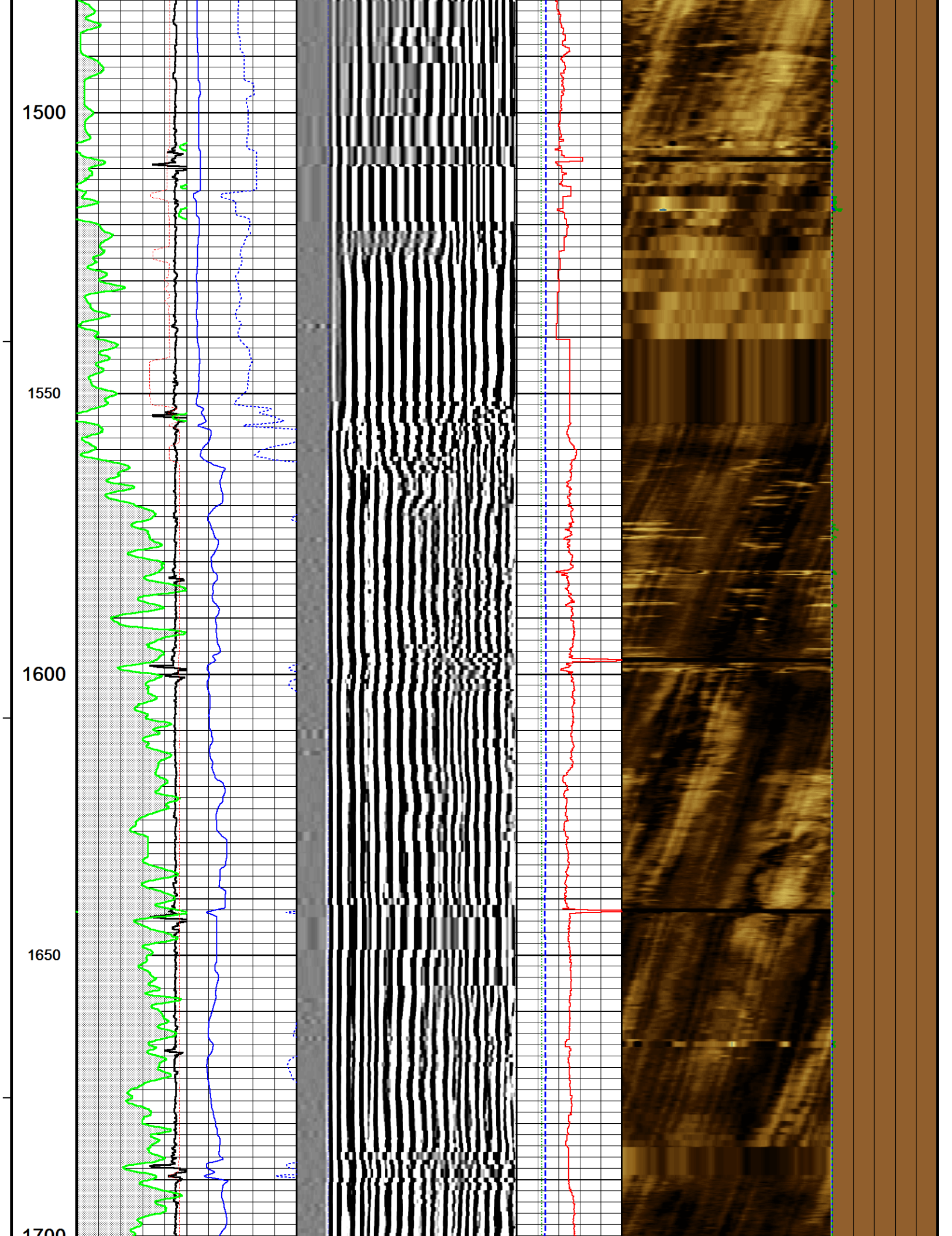


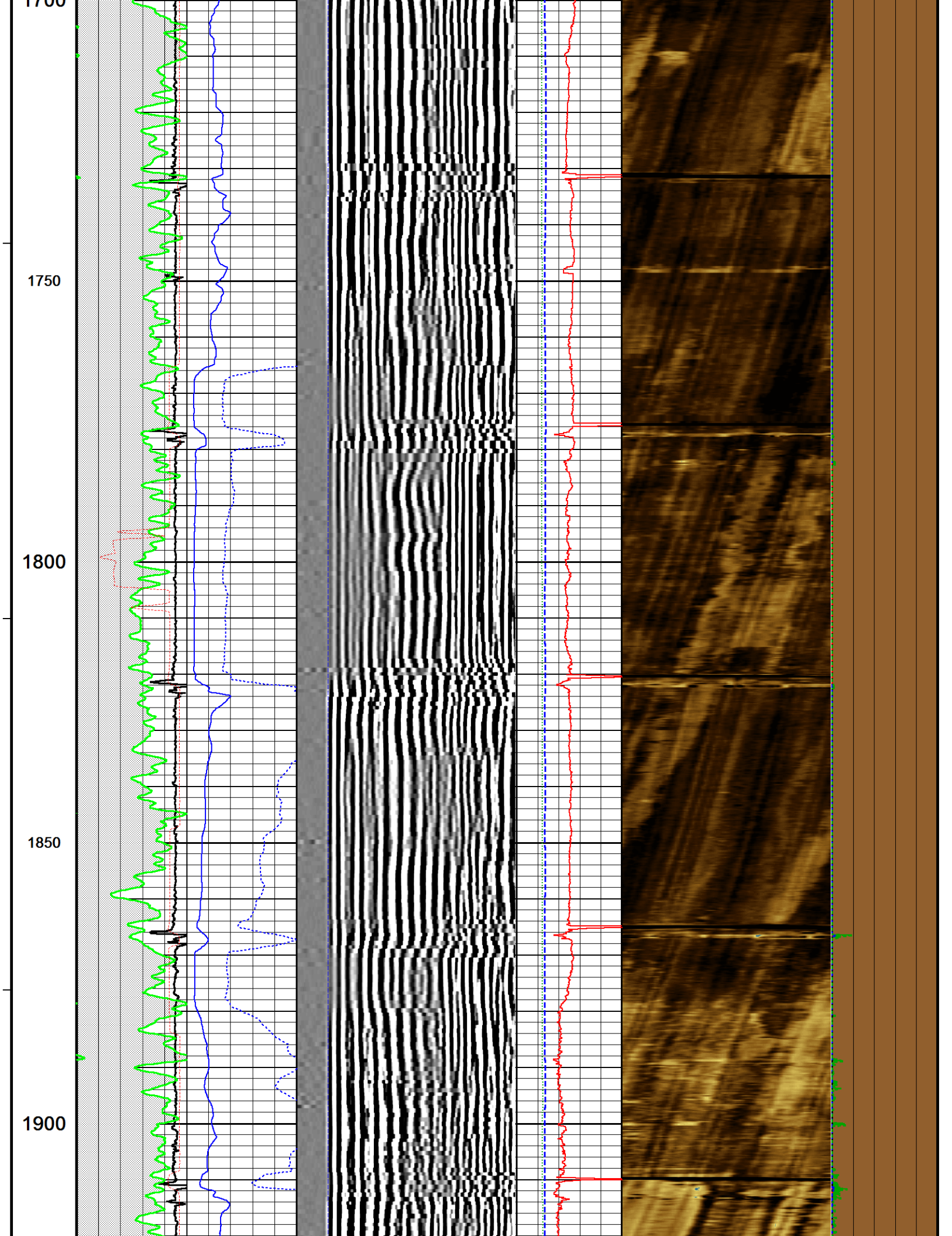










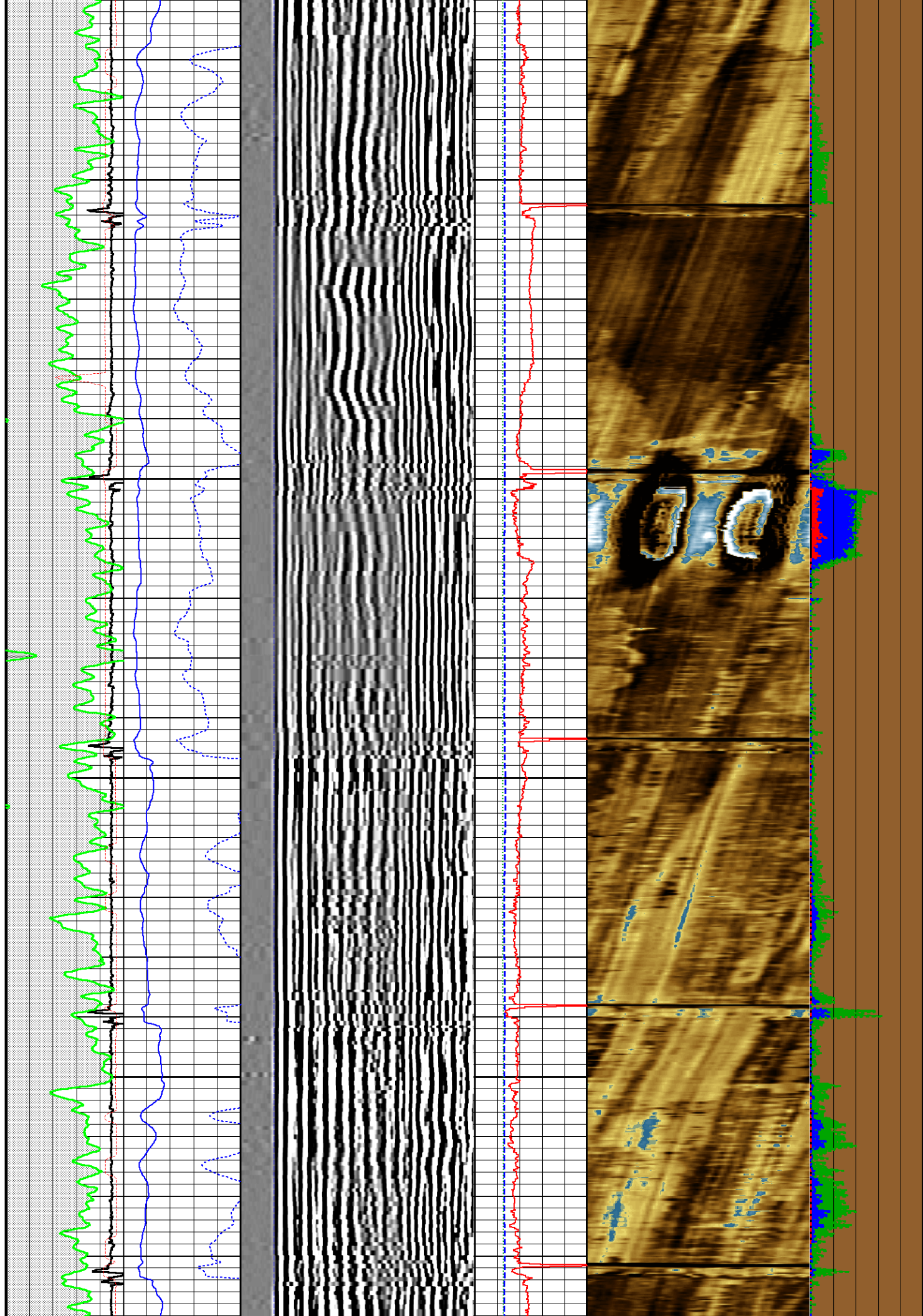


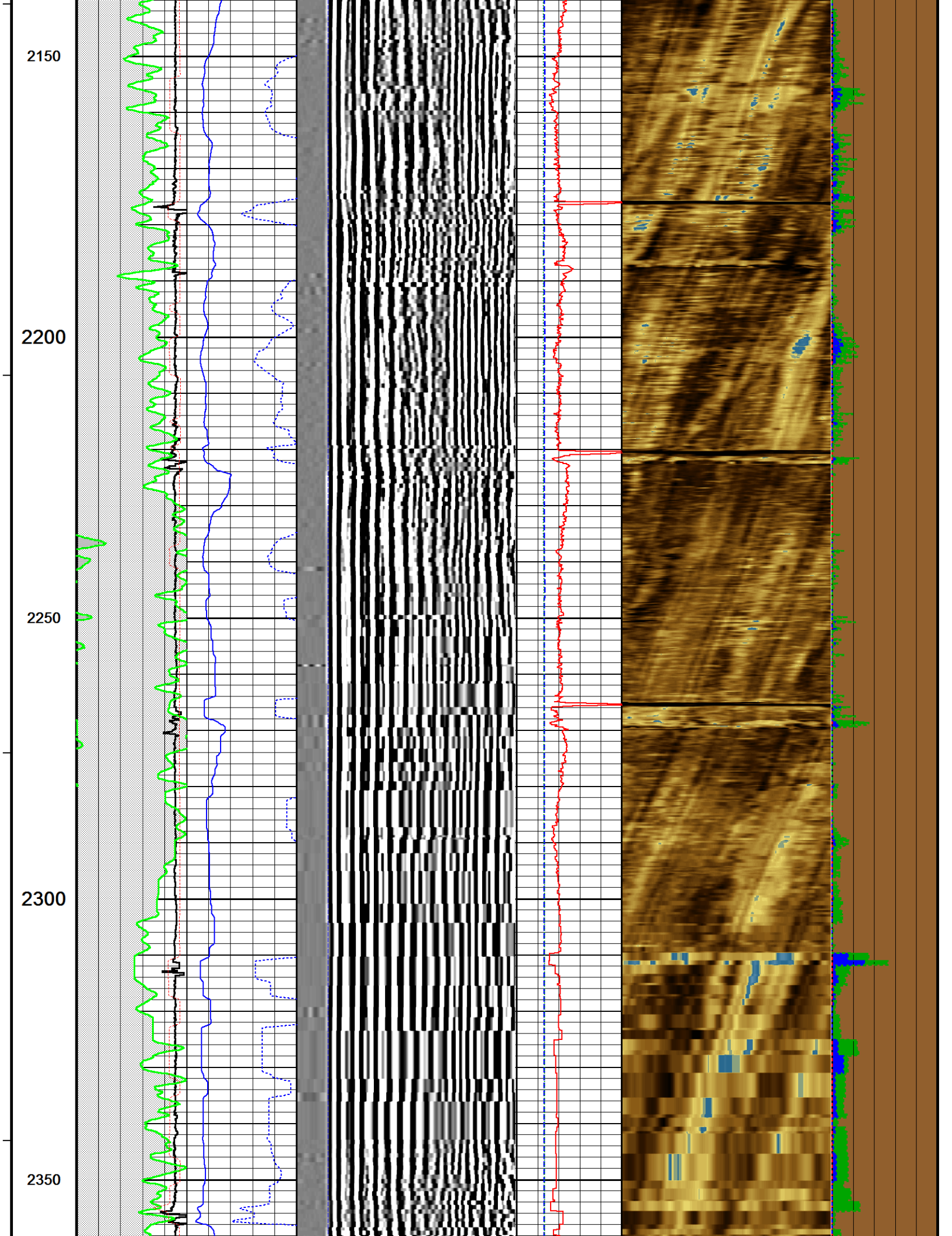
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2000

2050

2100



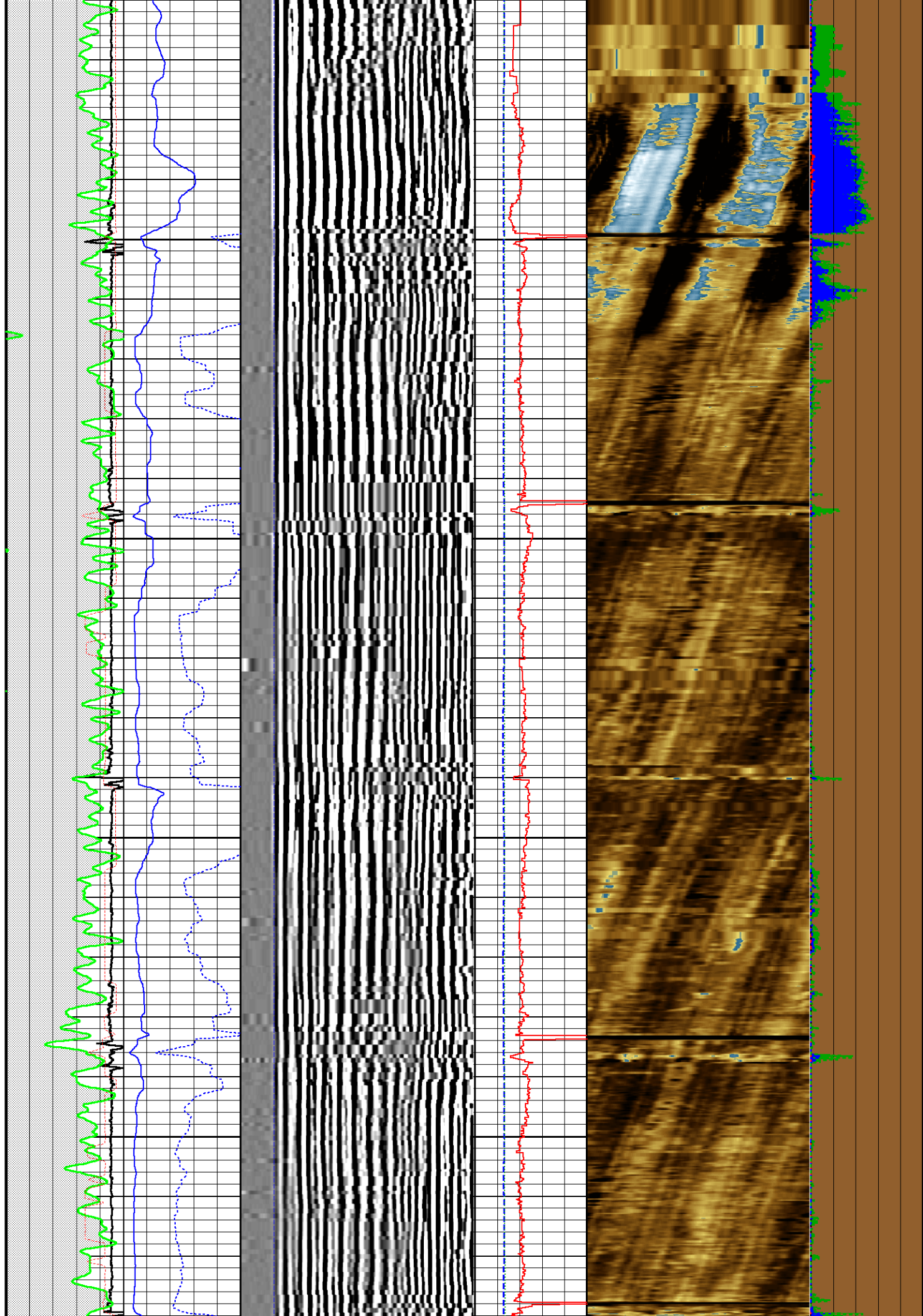


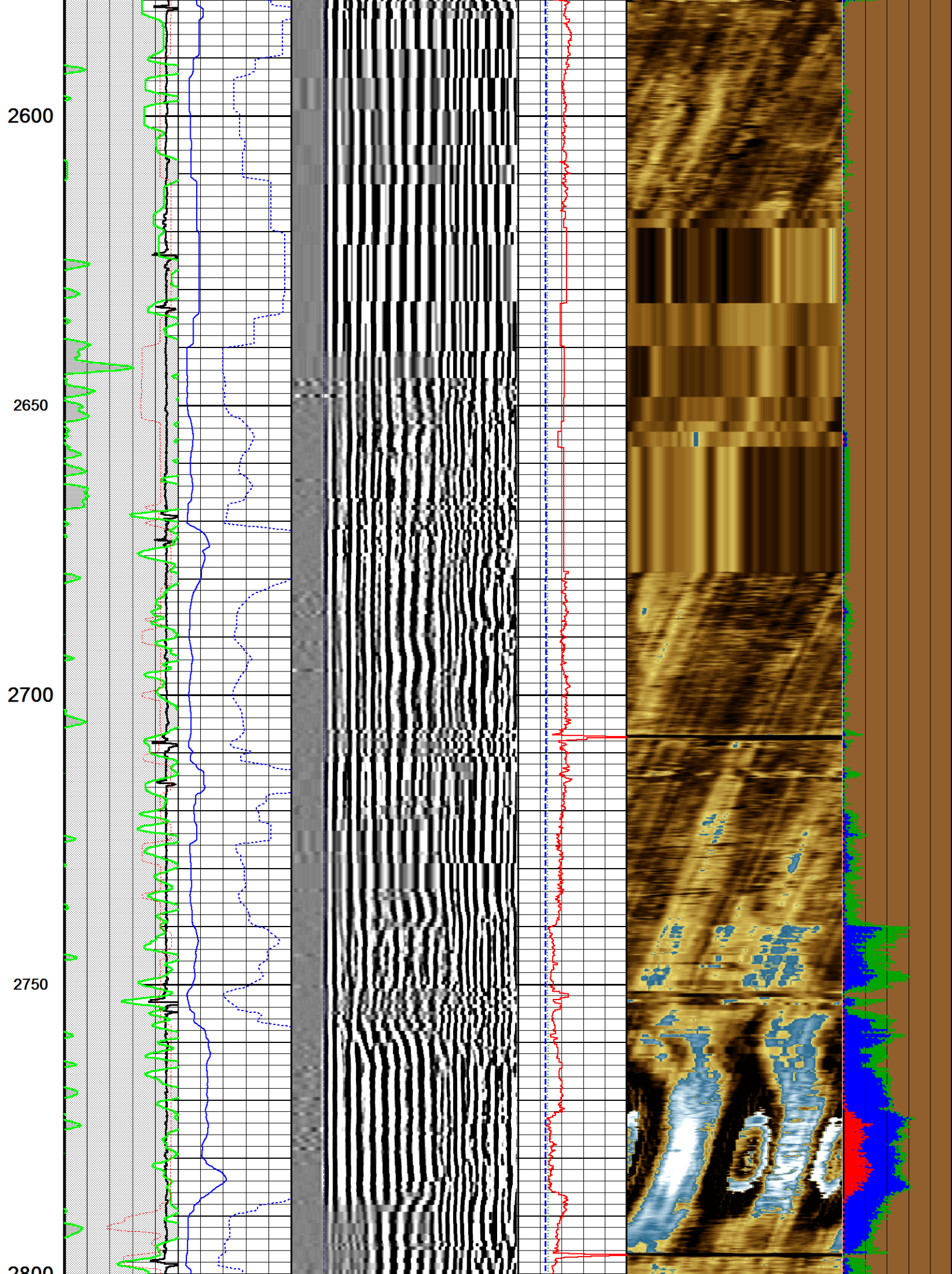
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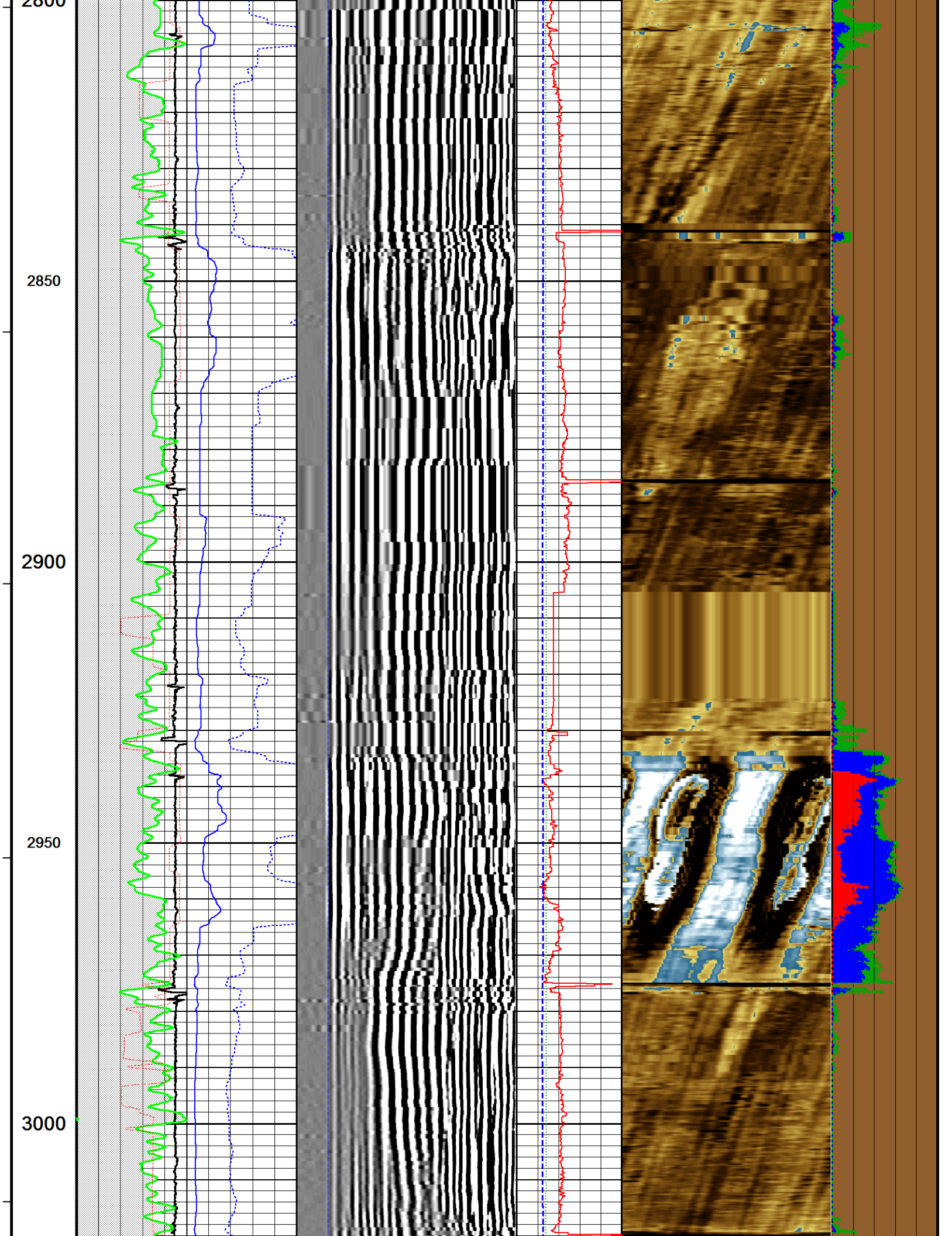
2450

2500

2550





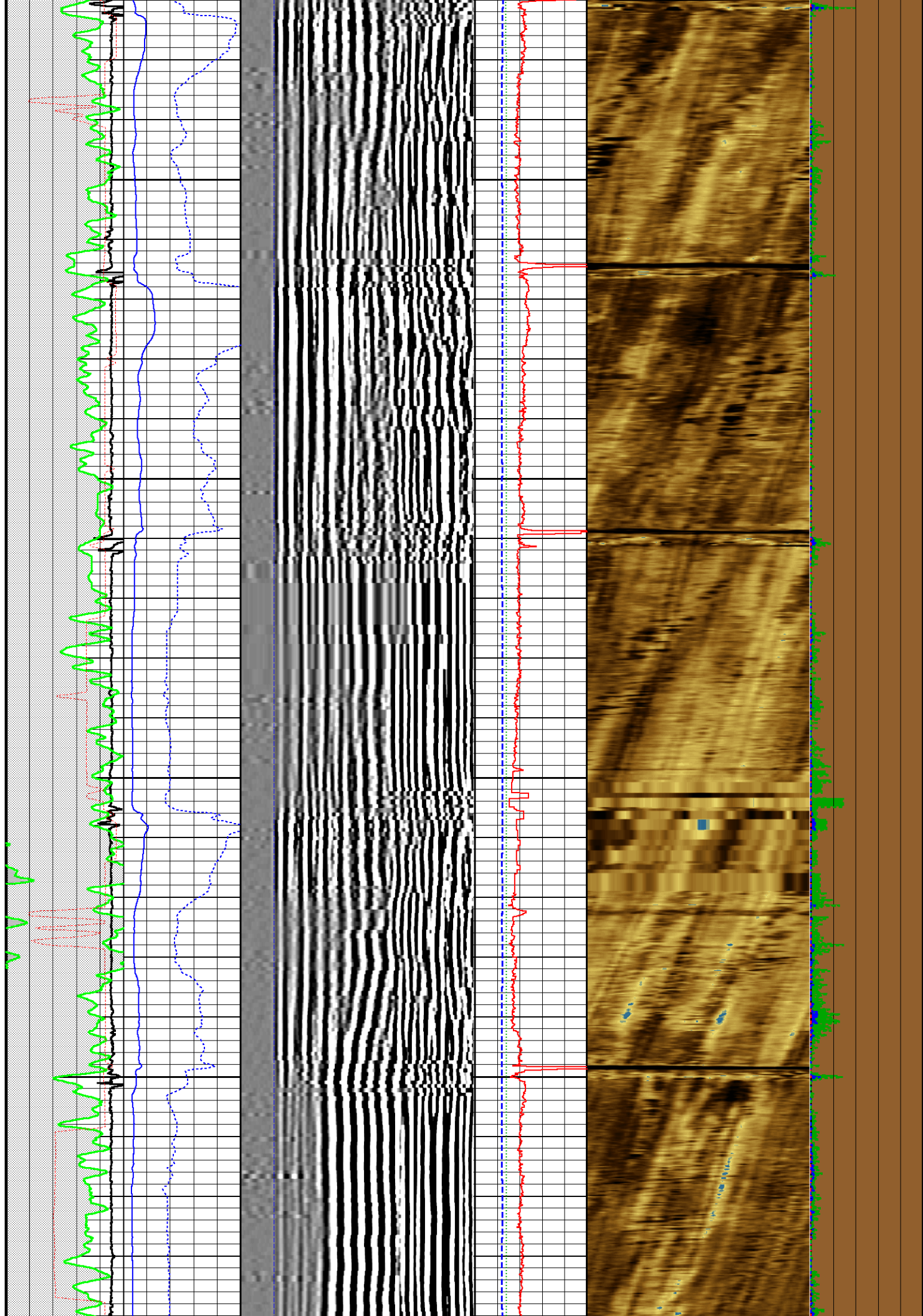


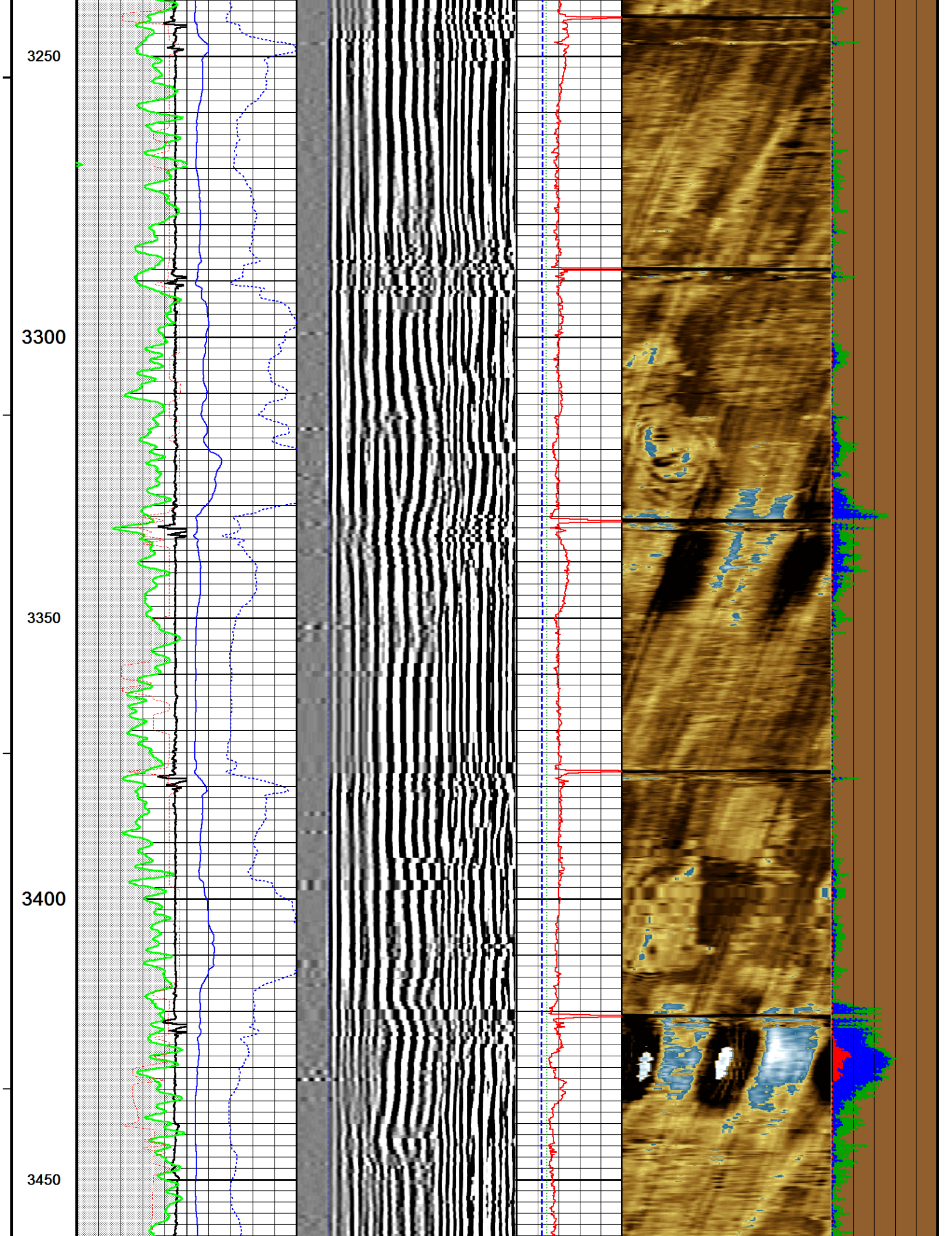
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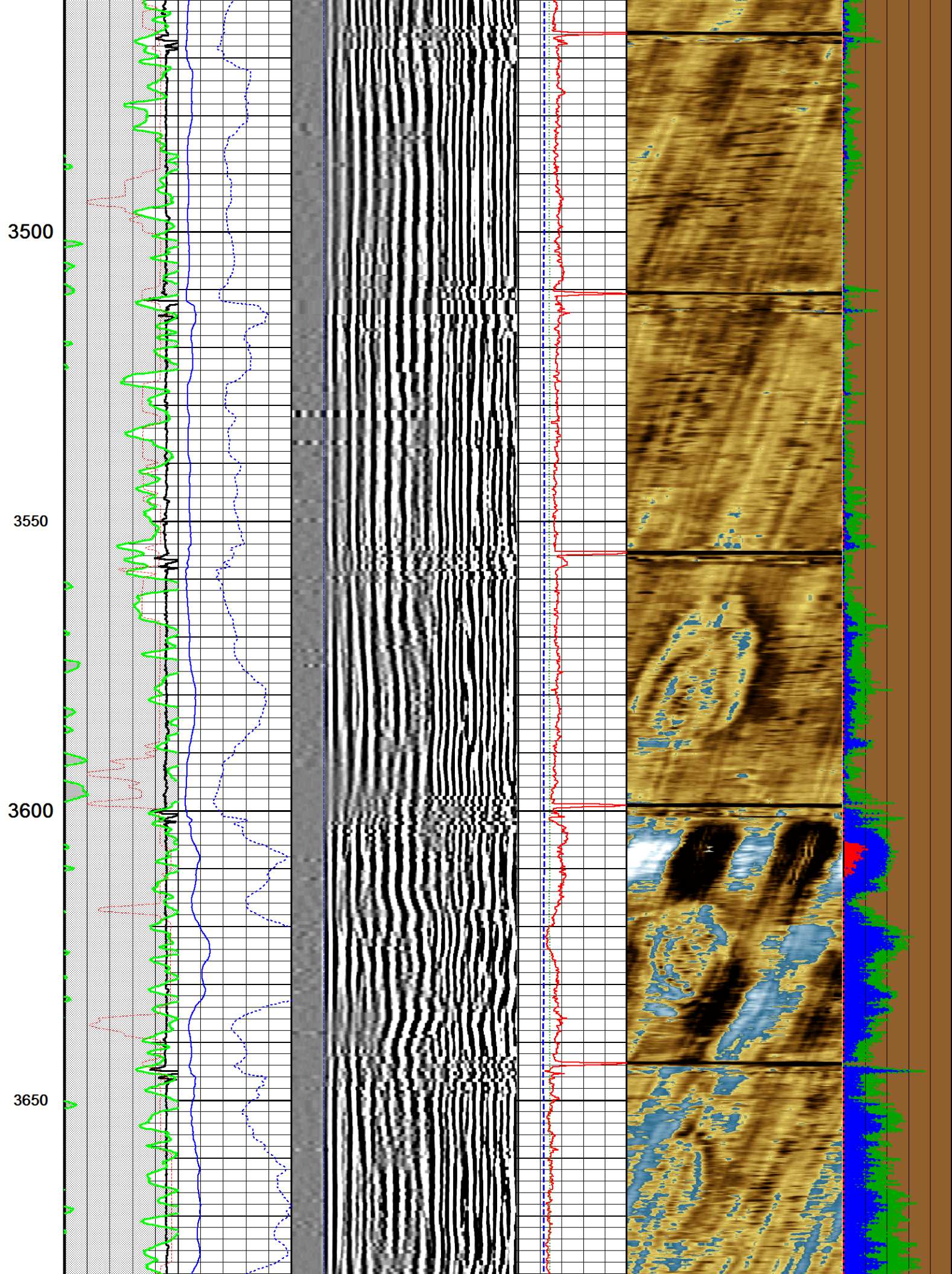
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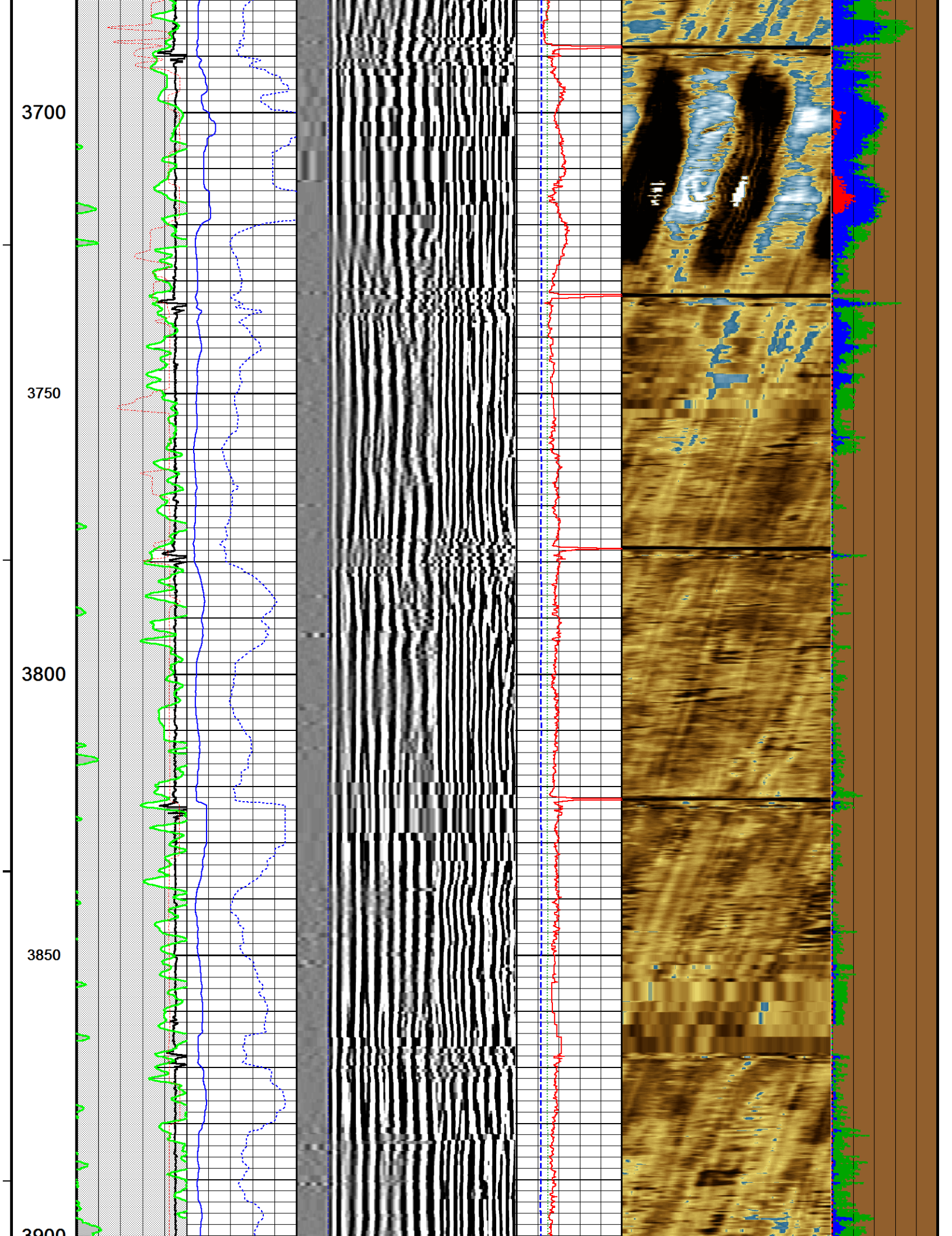
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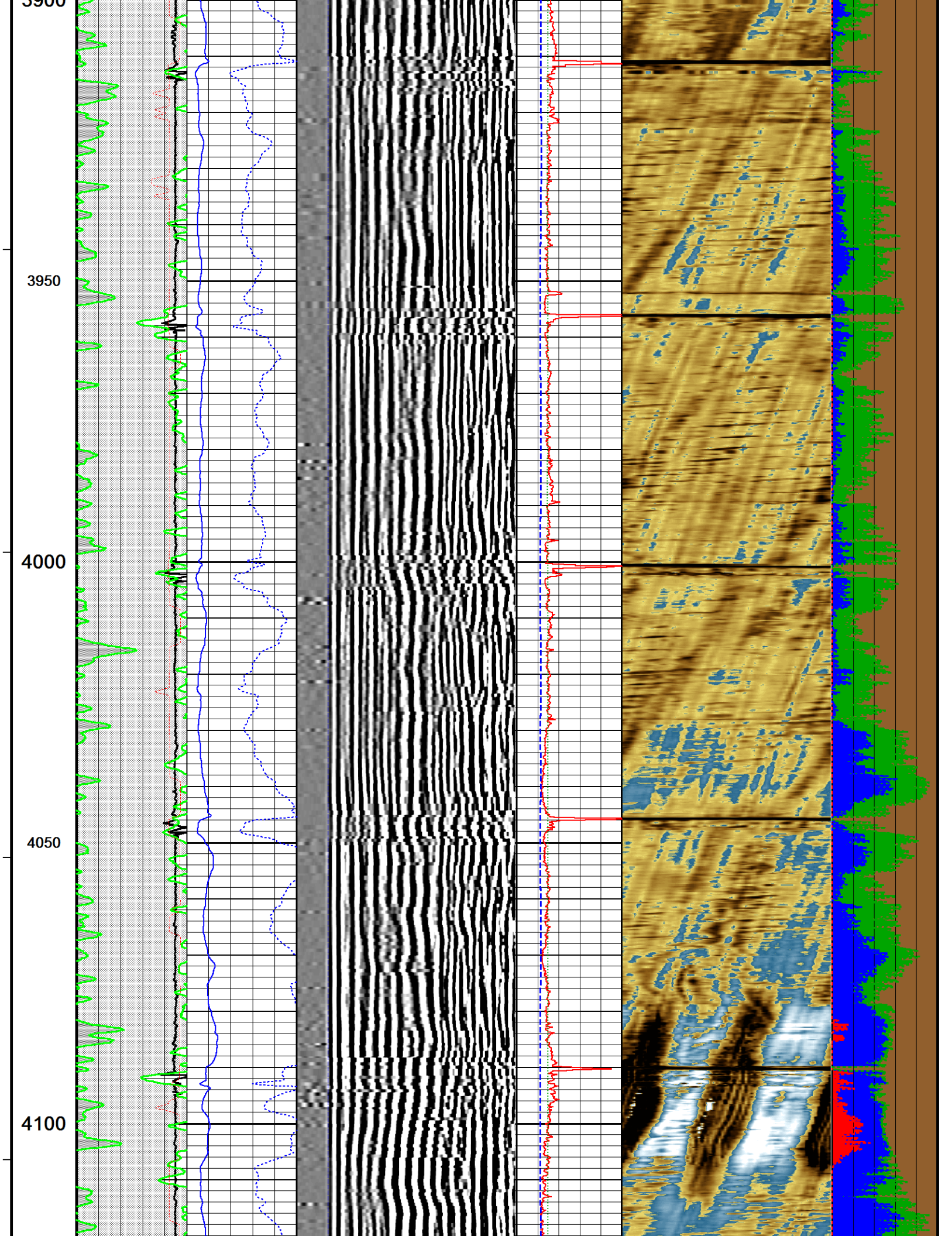
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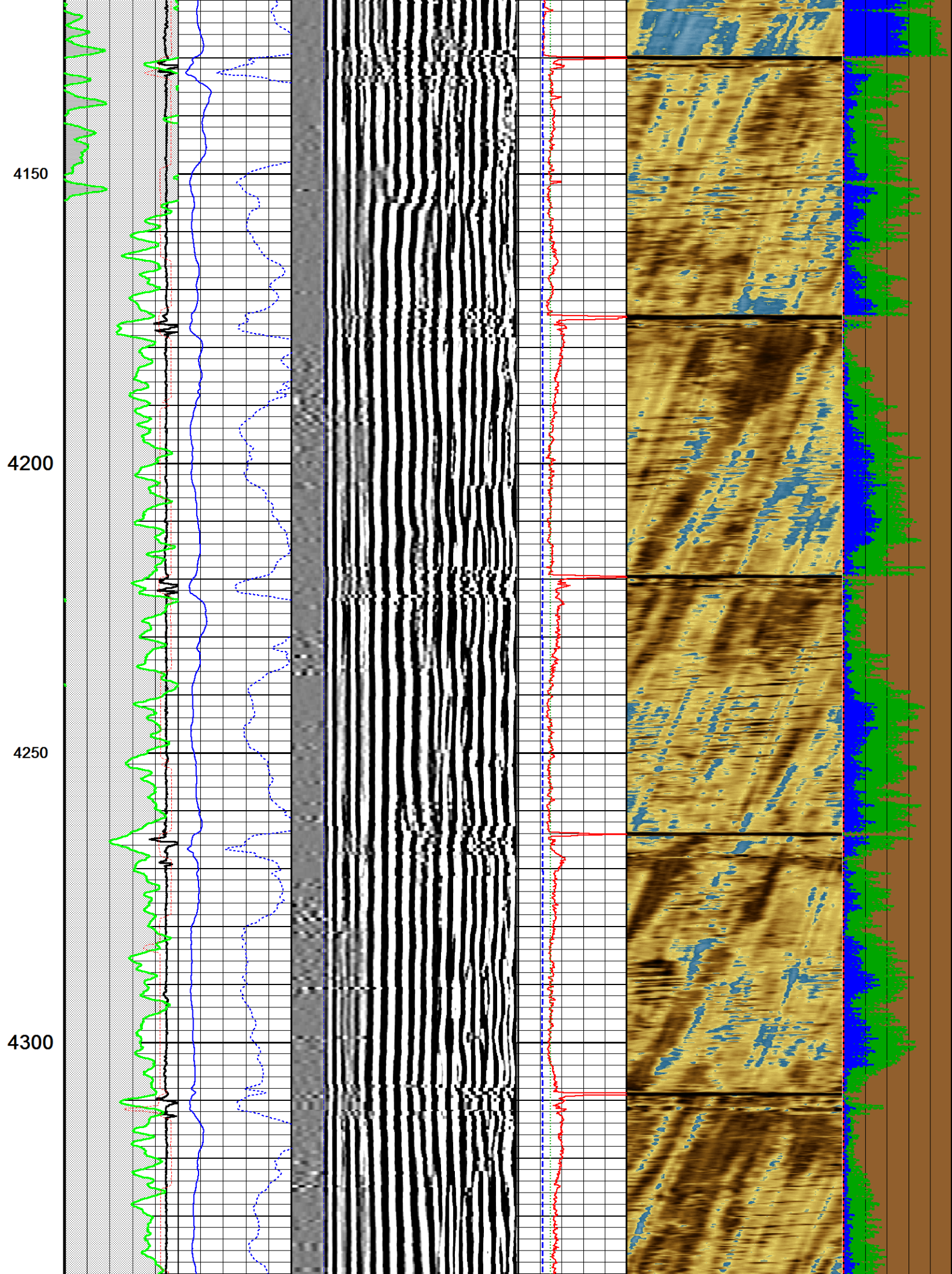


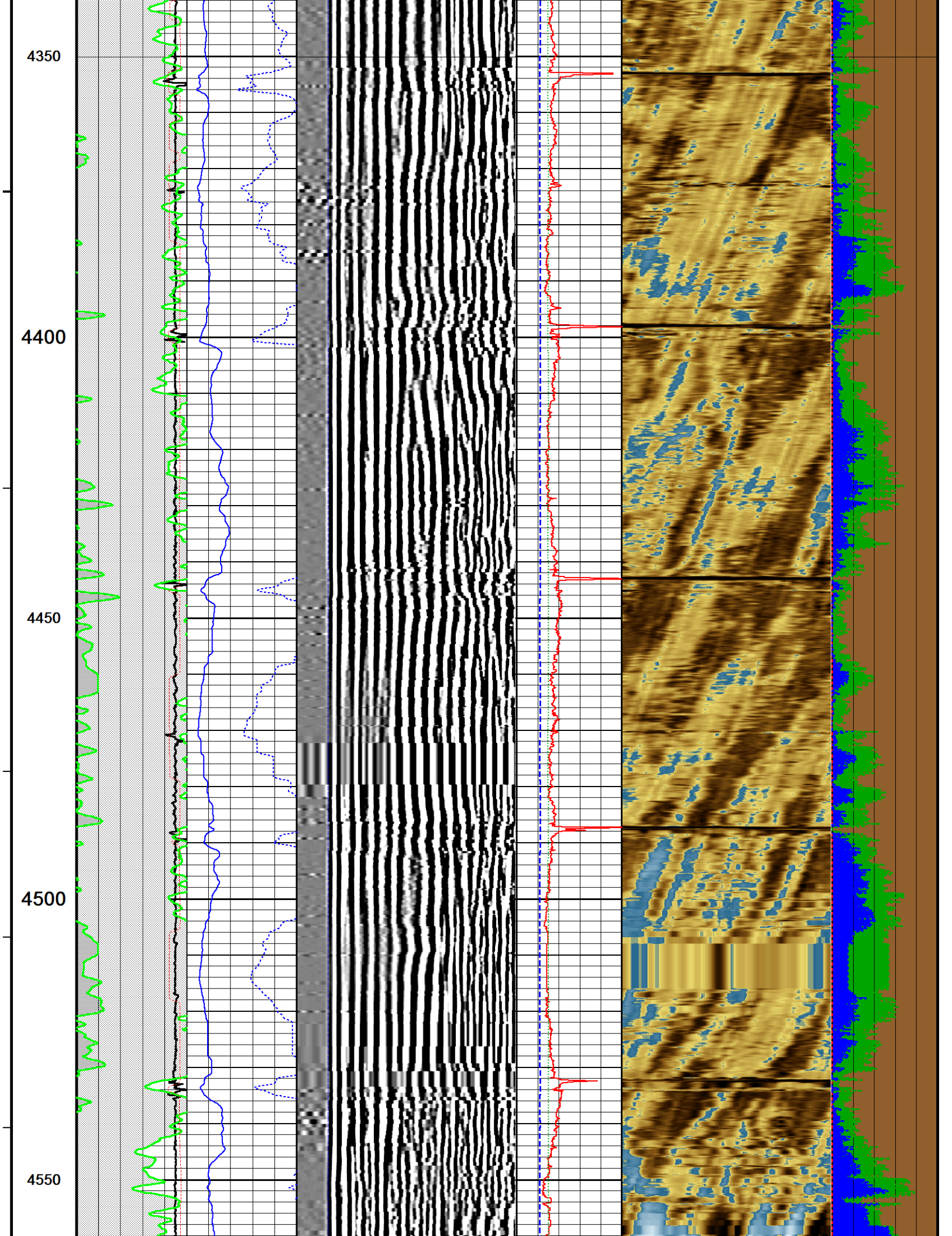


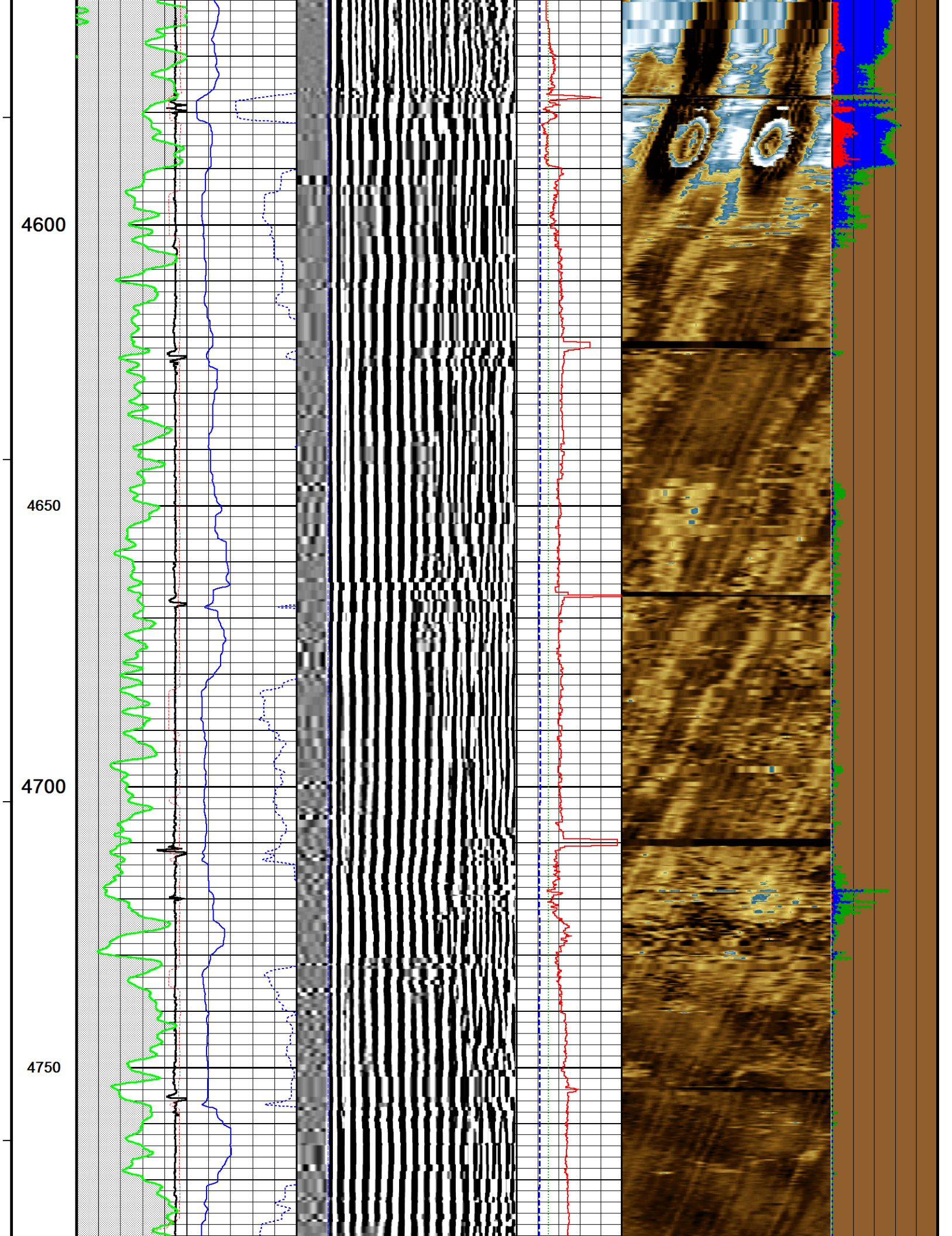


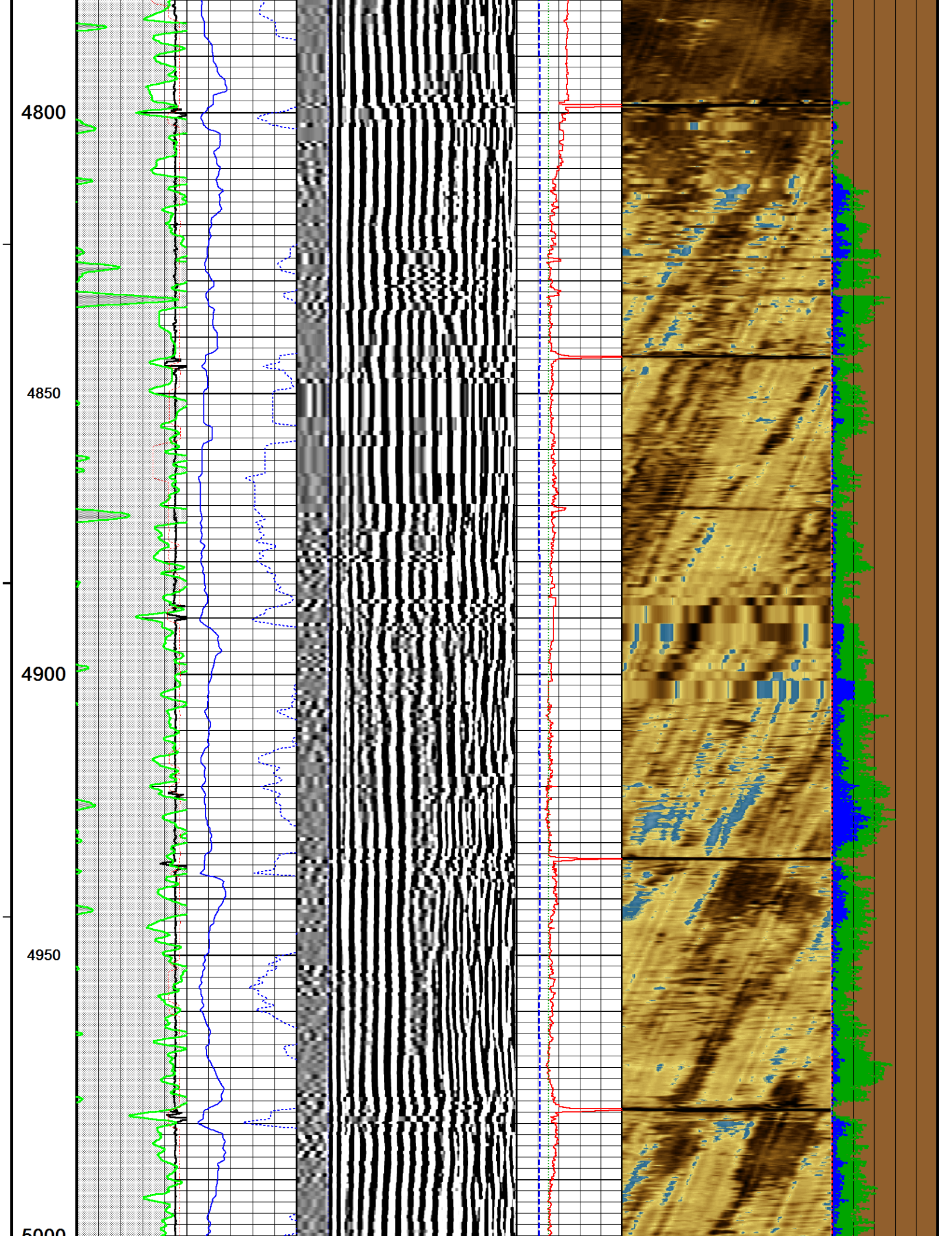


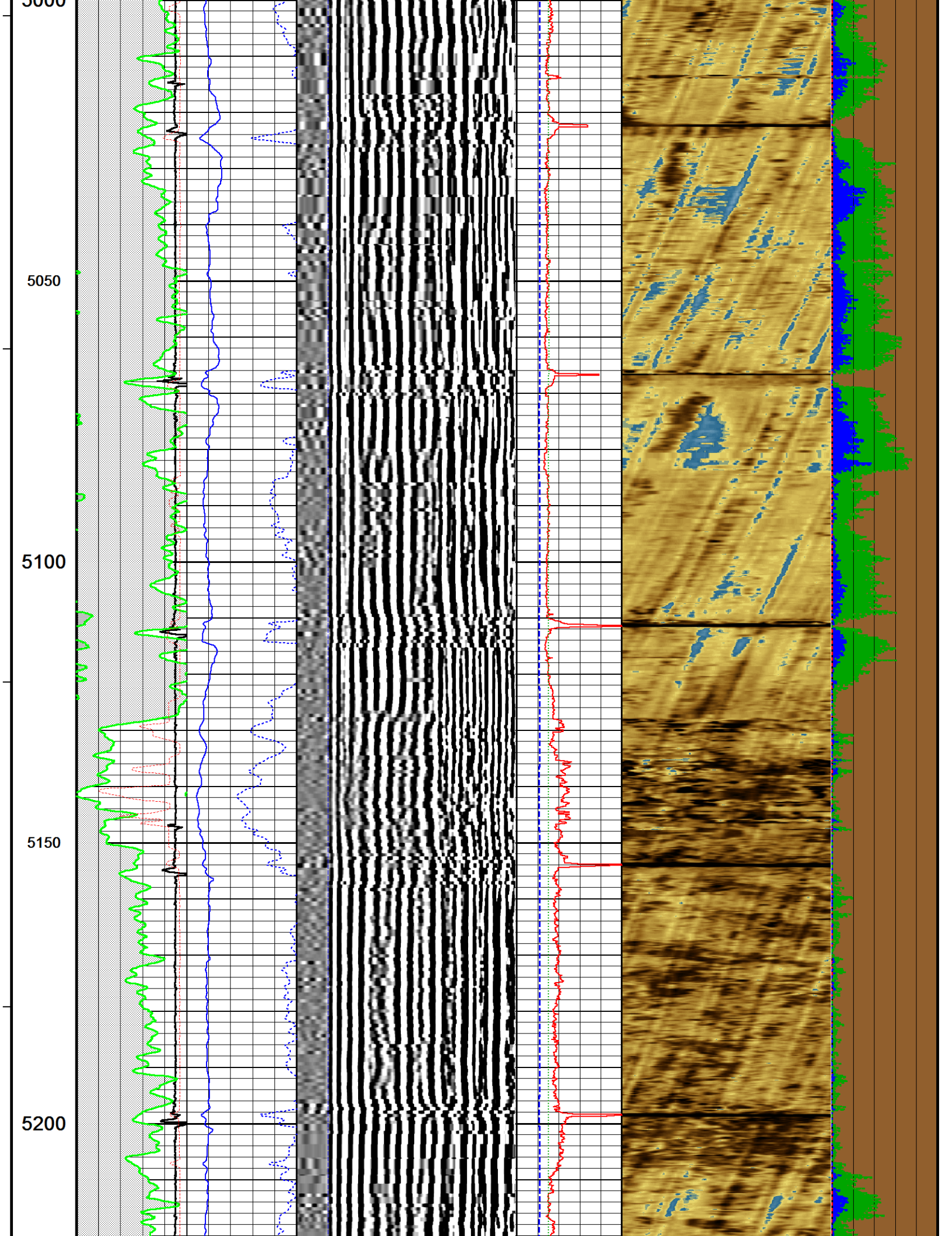


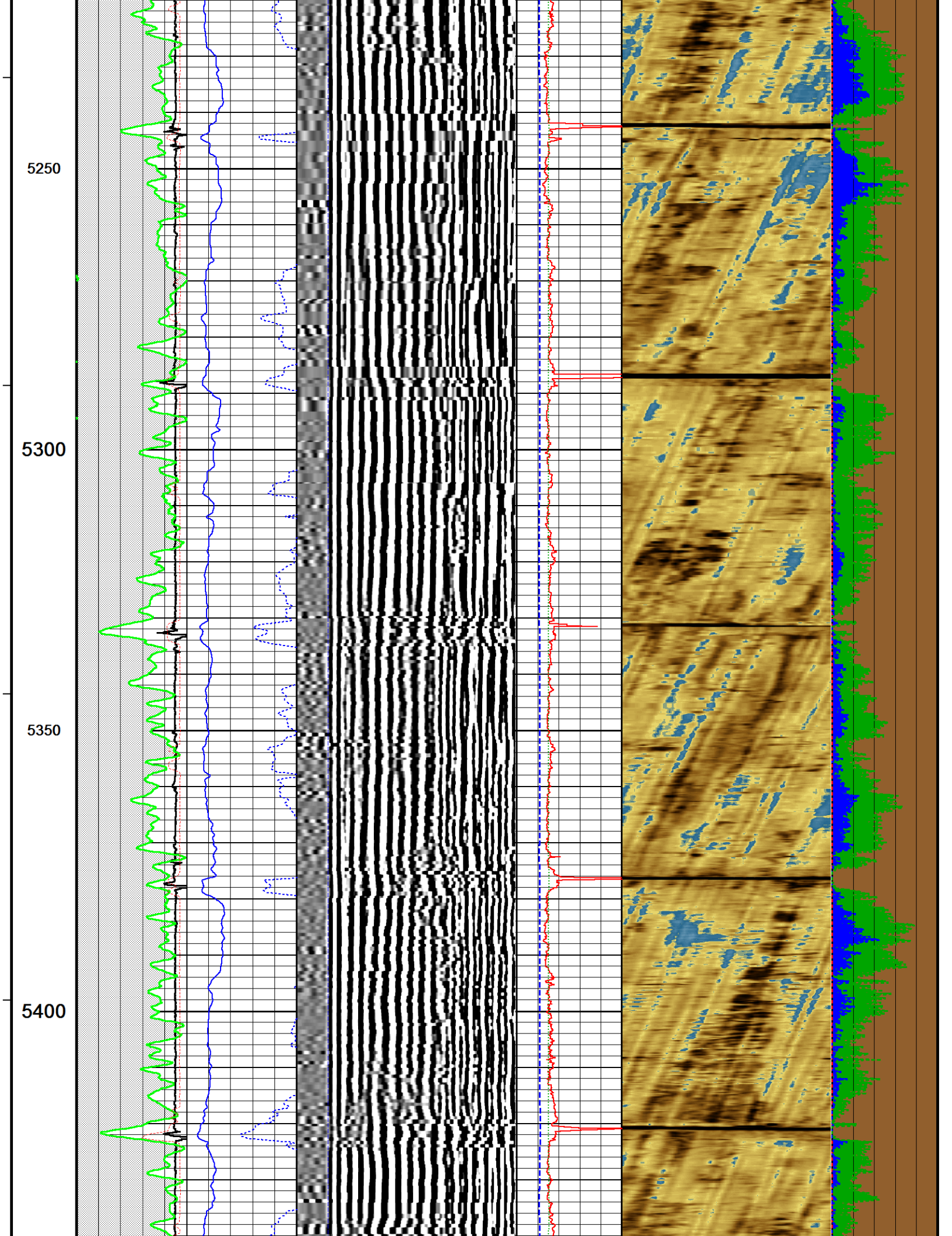


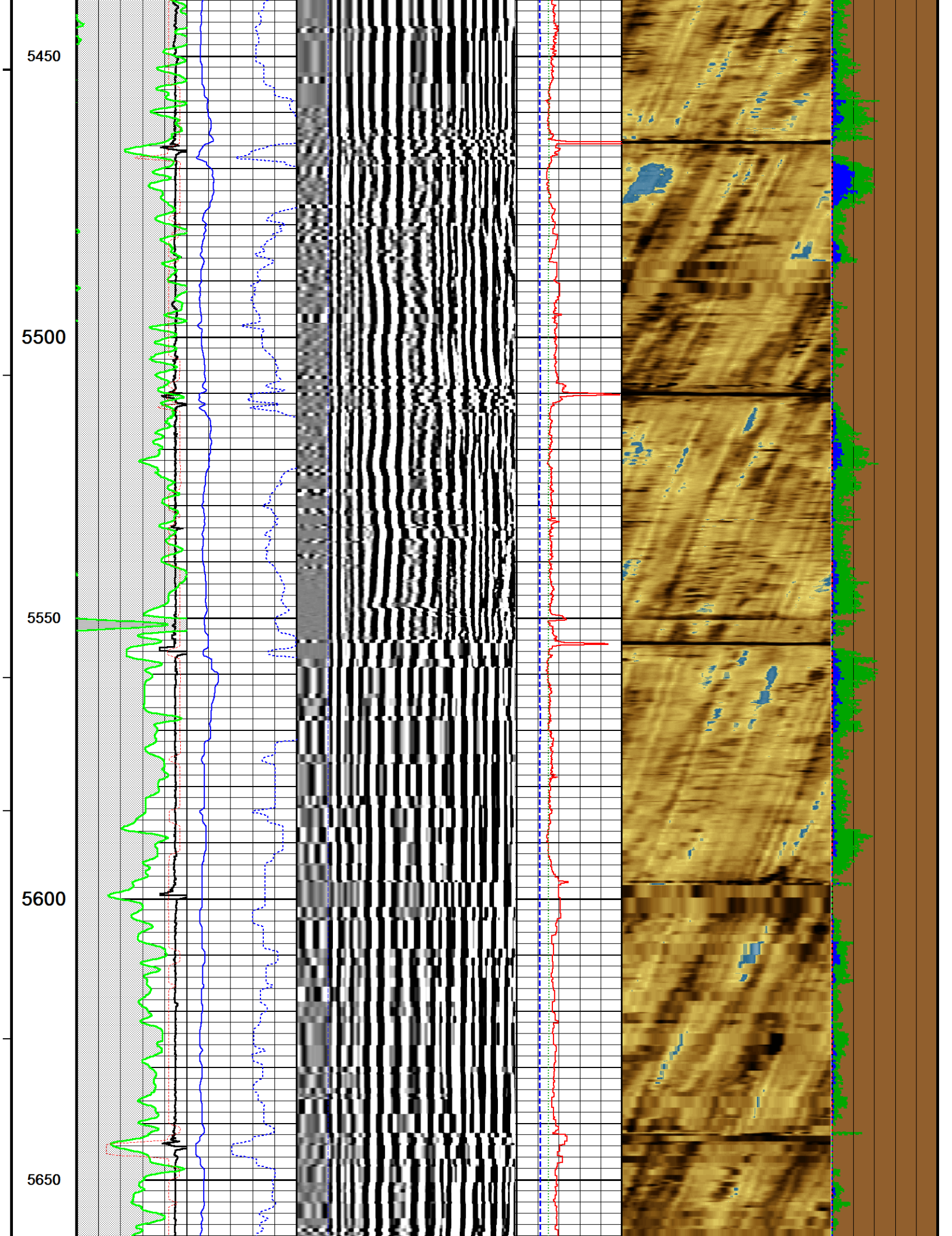


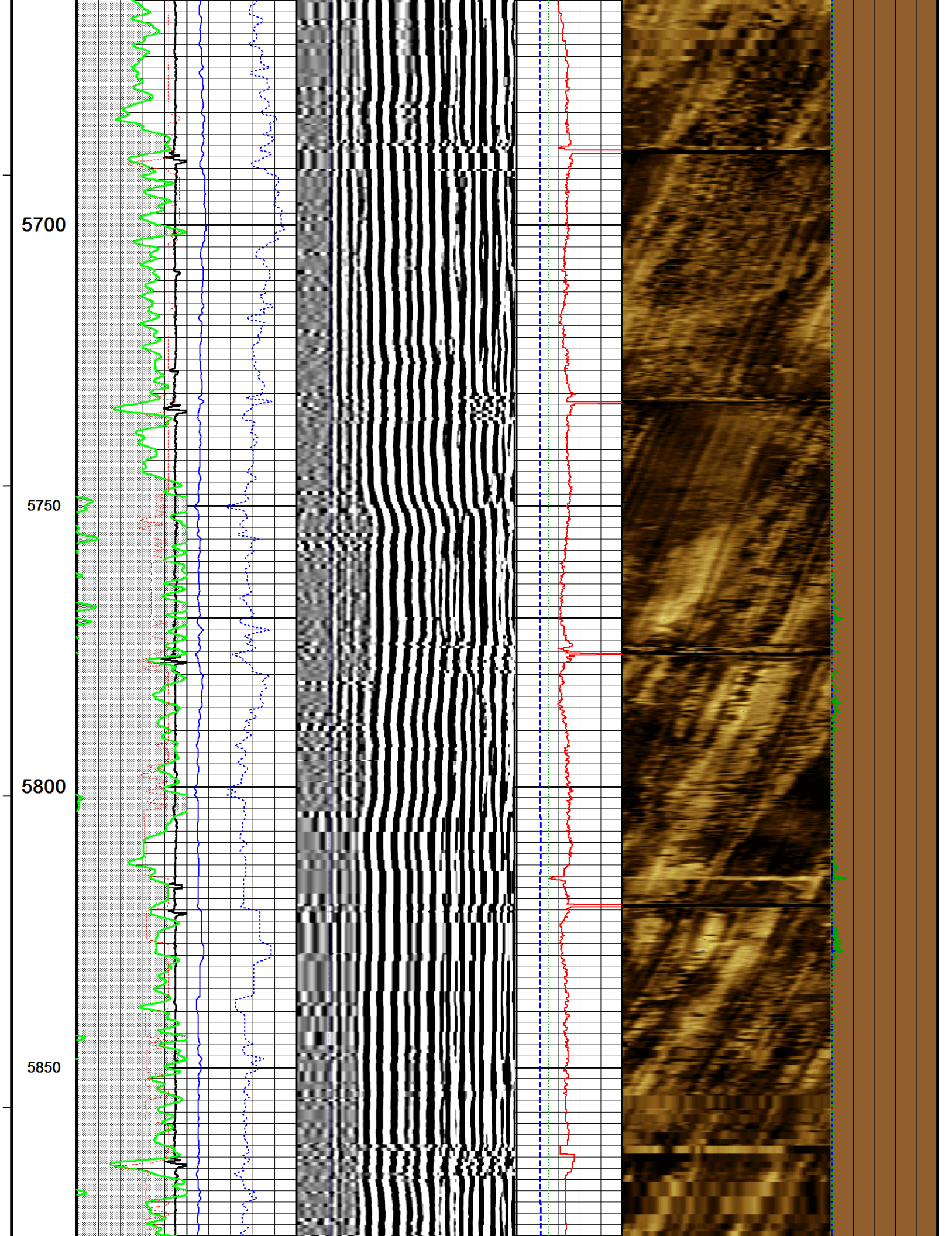


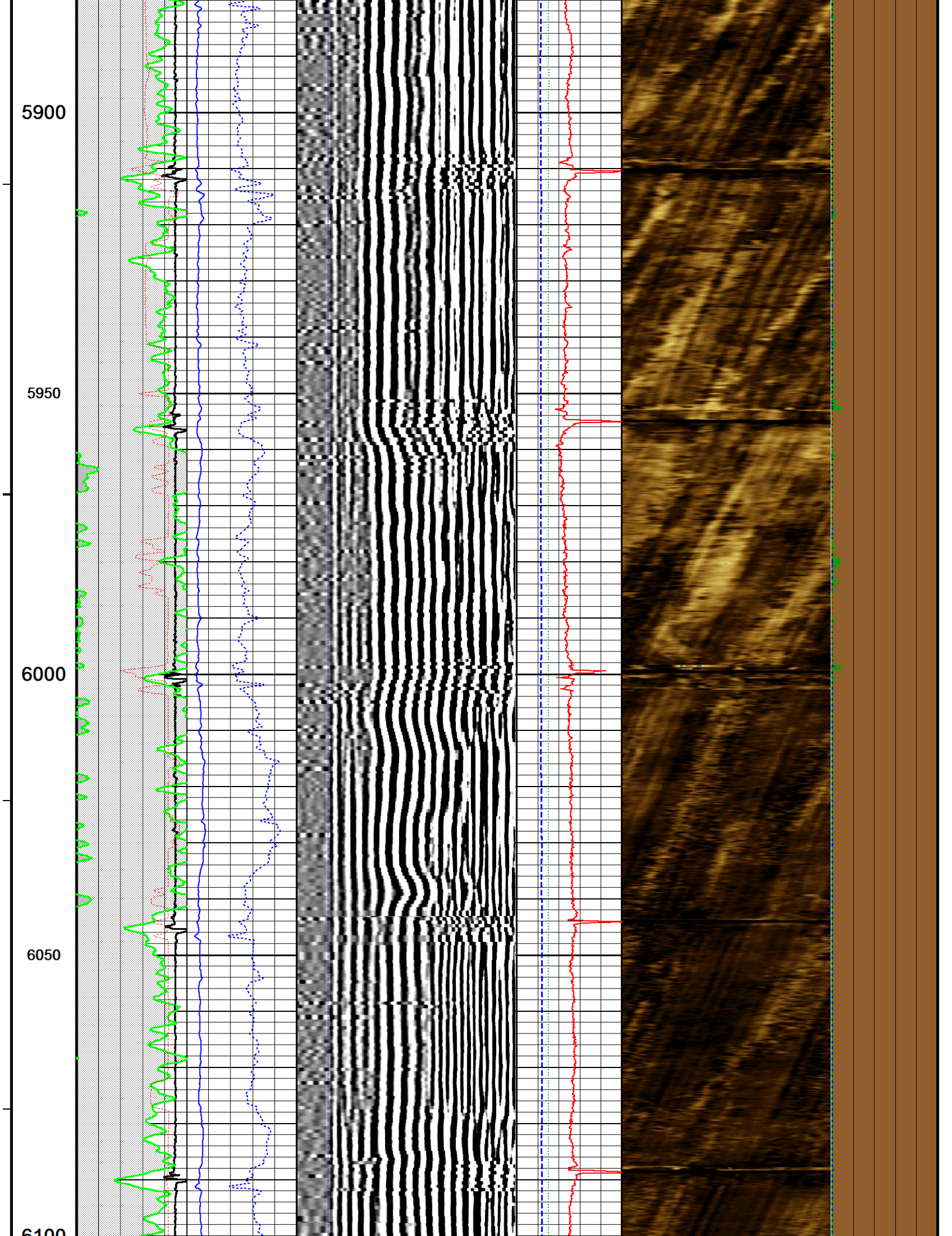


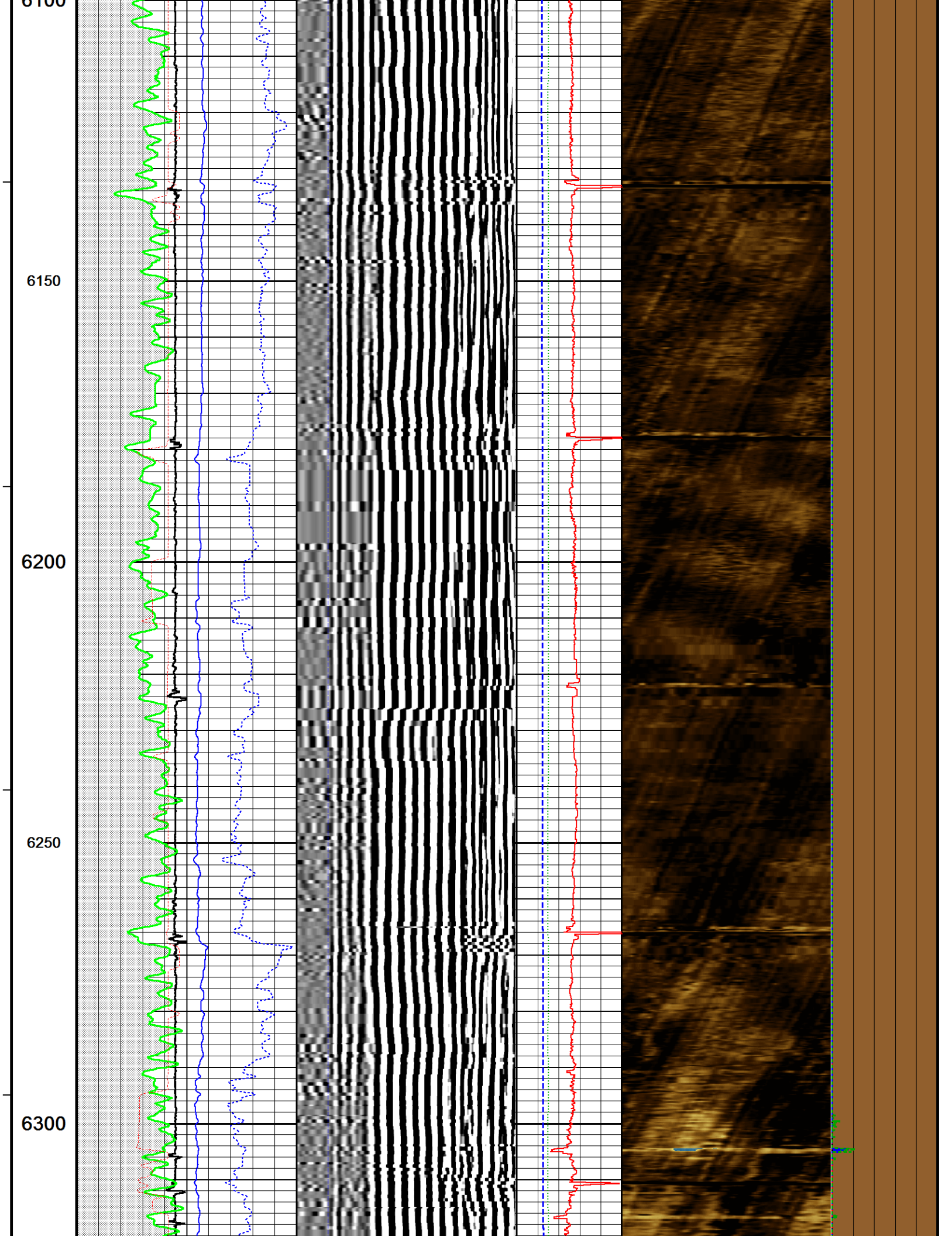


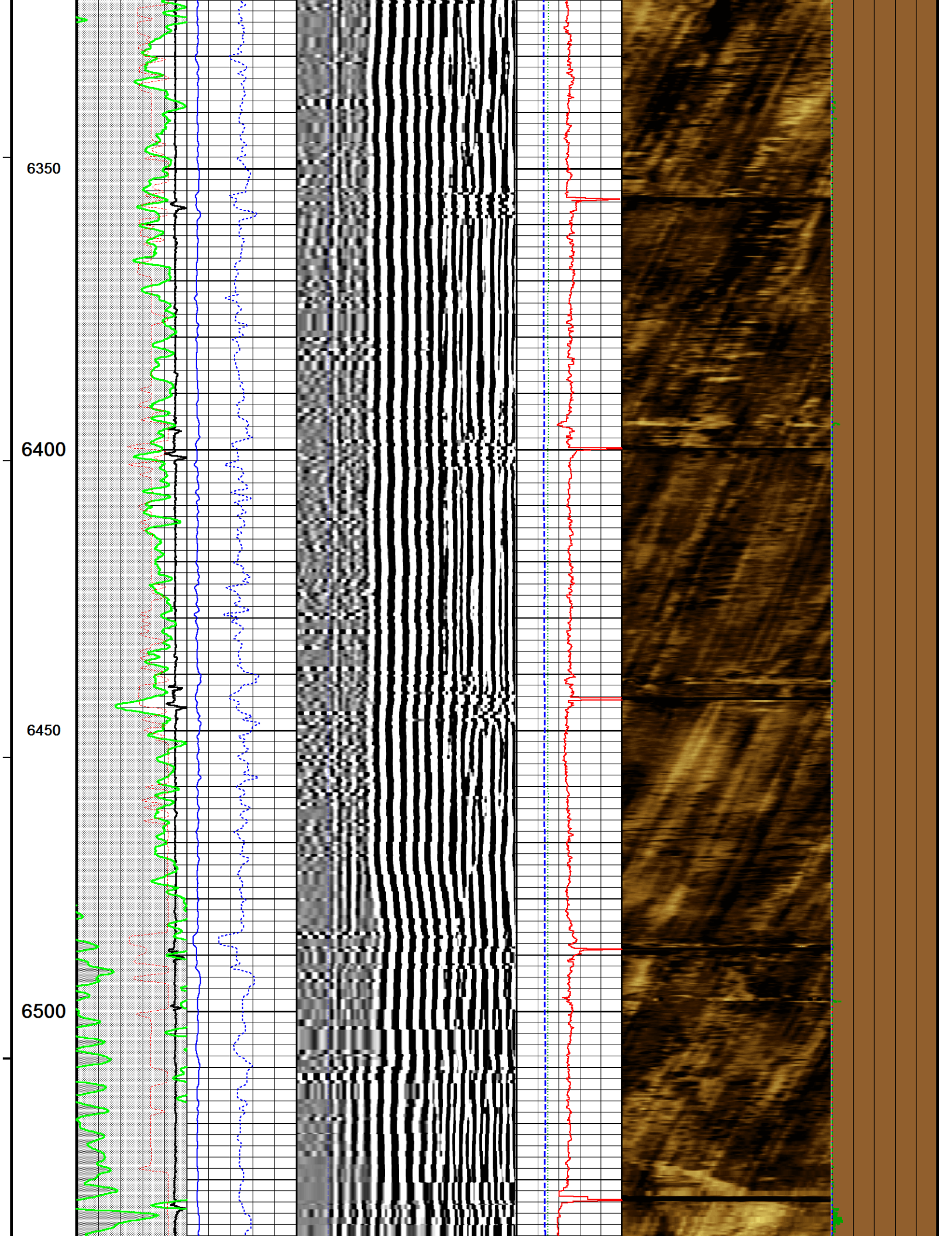


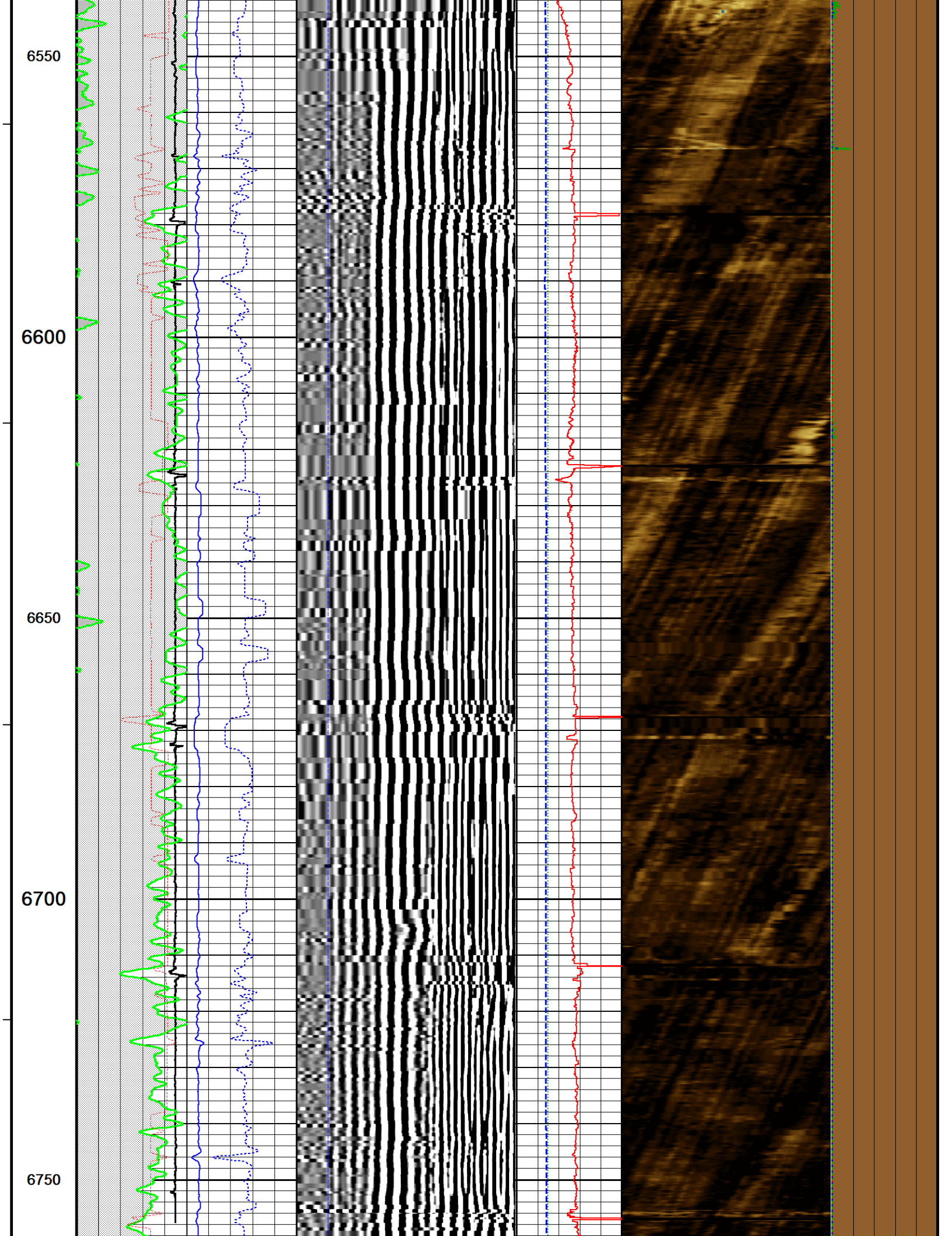


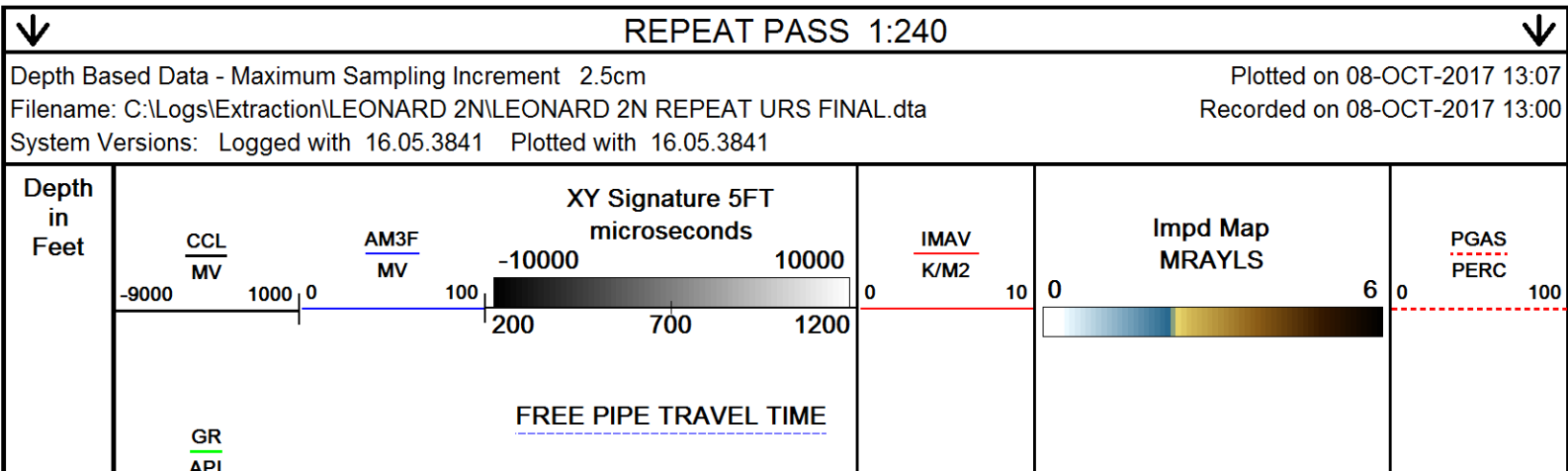
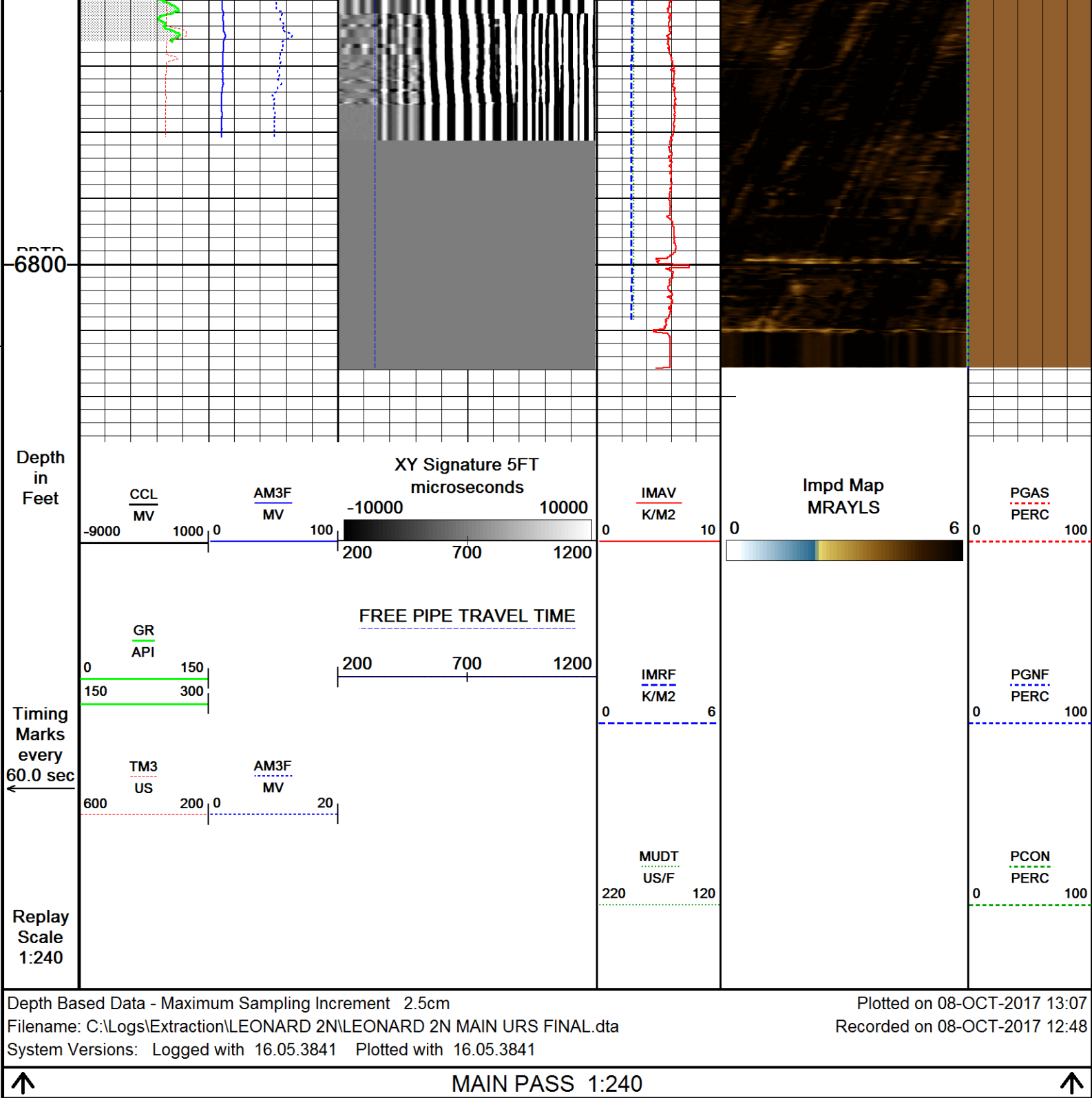


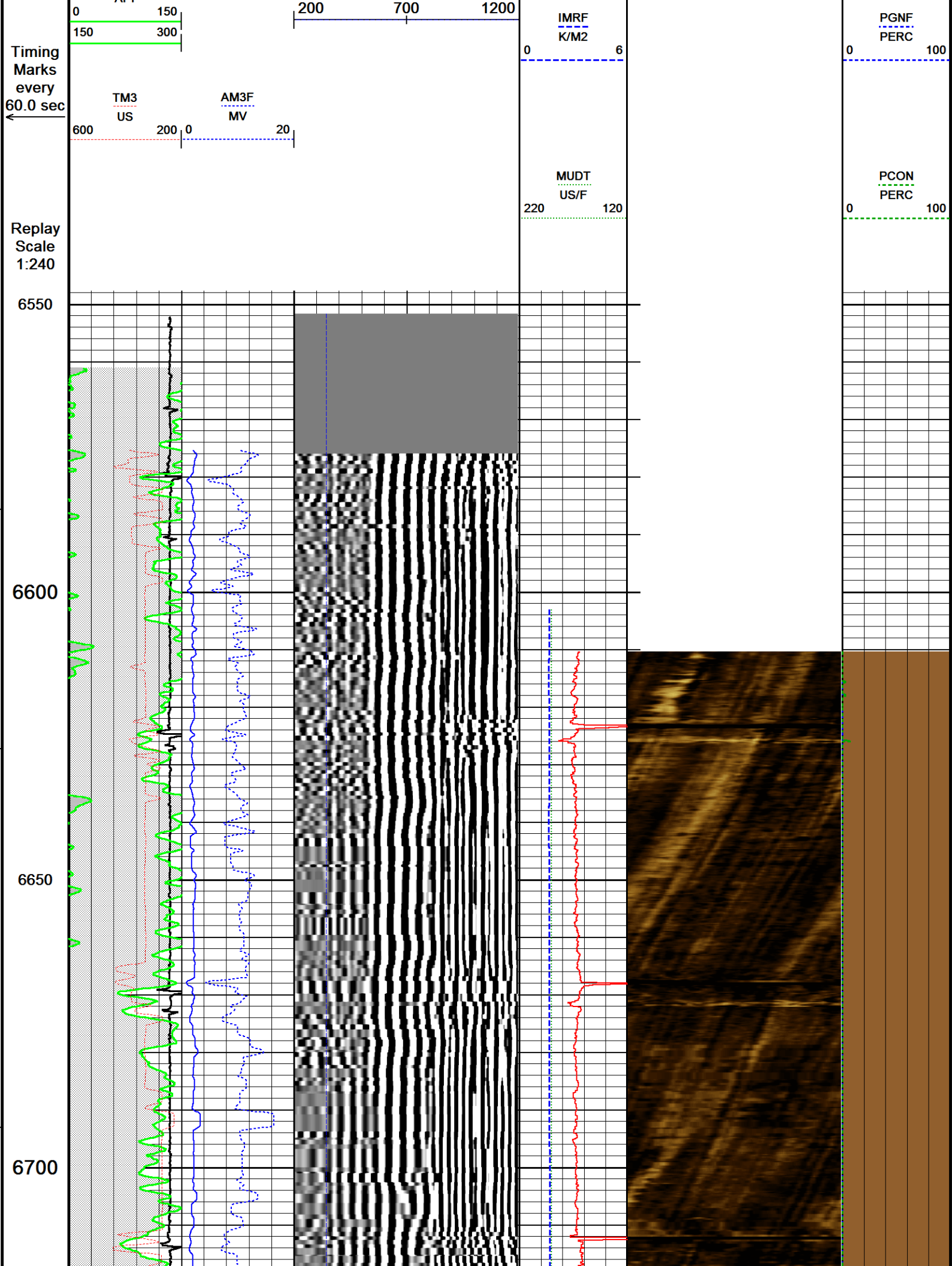


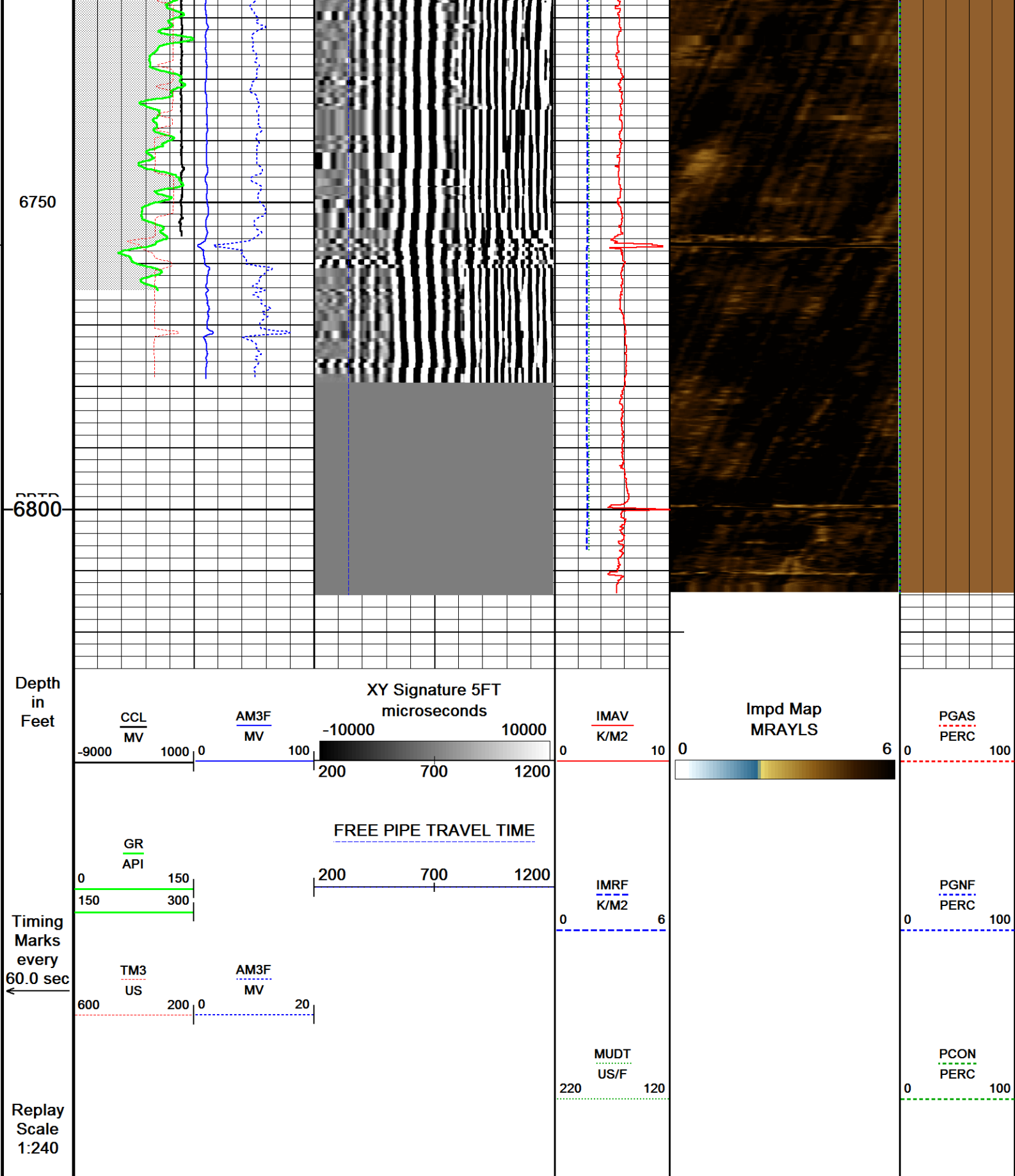












UGR Field Survey Cal UGR-JD 118

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

0.0 140.0 140.0 CPS

Delta Counts Per Sec: 140.0 CPS/API = 1.000

CBT Field Calibration CBT-AA 109

Field Calibration on 17-JAN-2017 08:32

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	655.30
AMP 5 FT	100 % Bond	1.40	0.00
	Free Pipe	41.00	594.10

CBT Constants CBT-AA 109

Last Edited on 08-OCT-2017 12:48

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 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 08-OCT-2017 12:48

*** 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	4.40
ZMud Cal Area Ratio	4.00

** 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	1.50	1.50	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

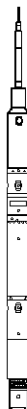
C:\Logs\Extraction\LEONARD 2N\LEONARD 2N MAIN URS FINAL.dta

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

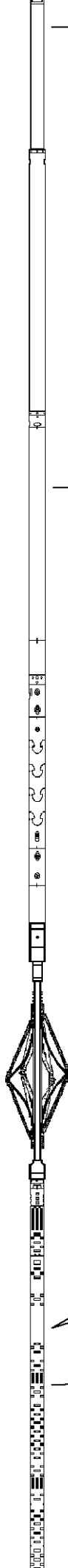
58.58 ft CCL - Collar Locator

50.49 ft GR - Gamma Ray

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

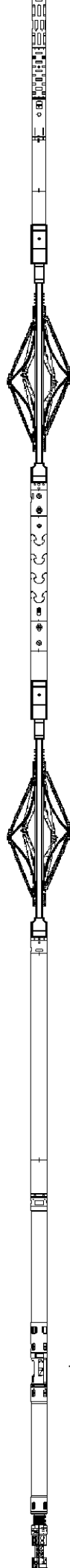
Flexible Joint, 55 Pin
FTP-AA 134 LG: 3.44 ft WT: 77.2 lb OD: 3.346 in

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



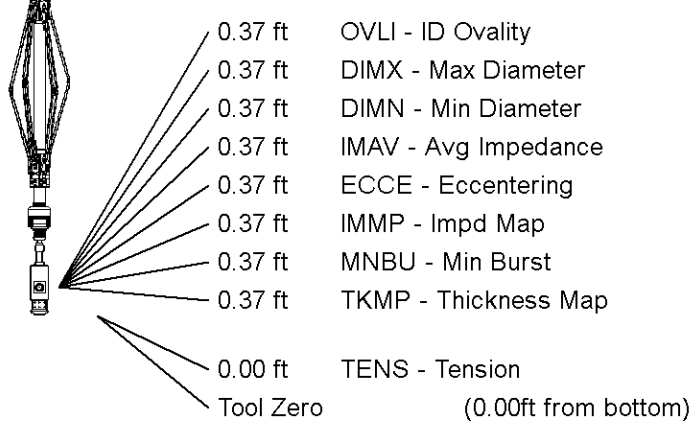
7.65 ft

IMRF - Mud Impedance

7.65 ft

MUDT - Mud Slowness

Total Length: 64.23 ft Weight: 1108.9 lb



All measurements relative to tool zero.

COMPANY	EXTRACTION OIL & GAS
WELL	LEONARD 2N
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	5032	feet	Bottom Log Interval	6800.00	feet
Elevation Drill Floor	5032	feet	Depth Driller	12231.00	feet
Elevation Ground Level	5004	feet	Depth Logger	6800.00	feet



SECUREVIEW
ULTRAVIEW/BONDVIEW
CEMENT ANALYSIS

Weatherford®