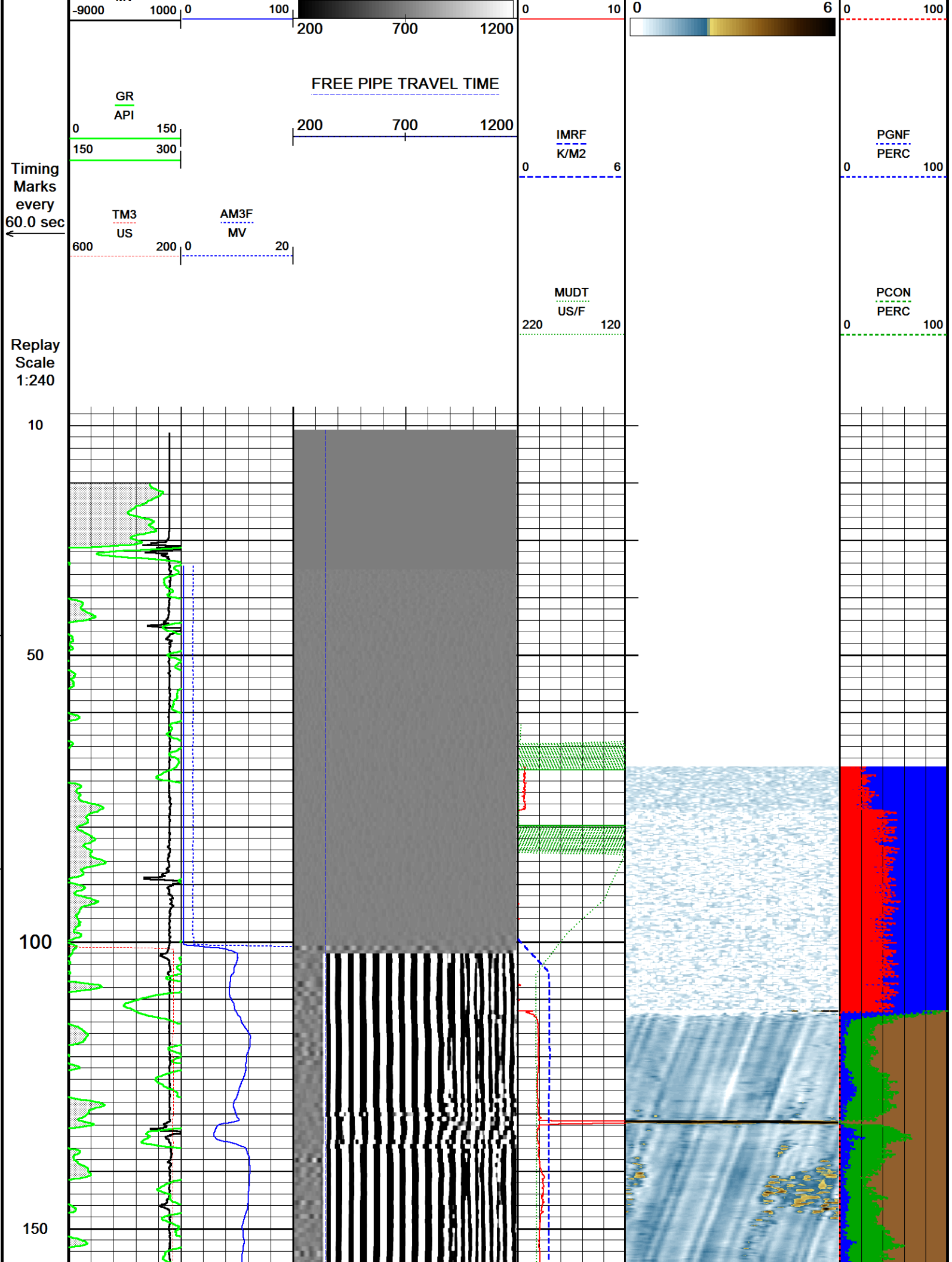
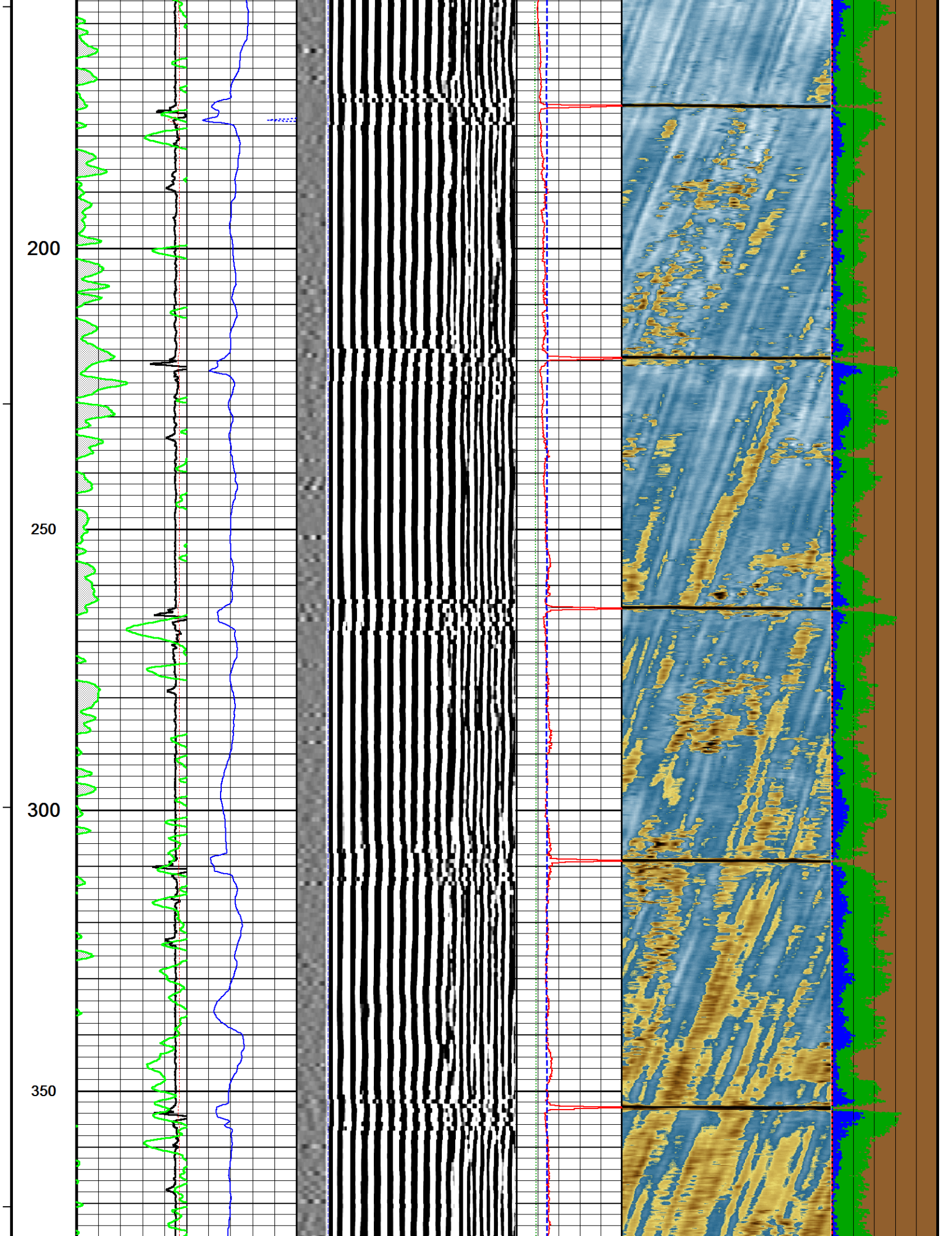
 Weatherford®				SECUREVIEW ULTRAVIEW/BONDVIEW CEMENT ANALYSIS			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				EXTRACTION OIL & GAS LEONARD 6N WATTENBERG WELD USA / COLORADO			
SEC 21		TWP 2N	RGE 67W	Other Services			
Latitude				Permanent Datum GROUND LEVEL, Elevation 5004 feet Log Measured From KB, 28 feet above Permanent Datum Drilling Measured From KB			
Longitude							
API Number							
Date		07-OCT-2017					
Run Number		ONE		PERFORATION RECORD			
Service Order		TBD		Shot Density		Number of Shots	
Type Log		URS/CBT				Depth From	
Depth Driller		12184.00		feet		Depth To	
Depth Logger		6800.00		feet			
Top Log Interval		0.00		feet			
Bottom Log Interval		6800.00		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				CASING / TUBING RECORD			
Time Well Ready		ROA		Size inches		Weight pounds/ft	
Time Logger Bottom		SEE LOG		5.500		20.00	
Unit		14115				Depth From feet	
Equipment Name		WSS-E				Depth To feet	
Base		CASPER					
Recorded By		P. MAZUR					
Witnessed By							

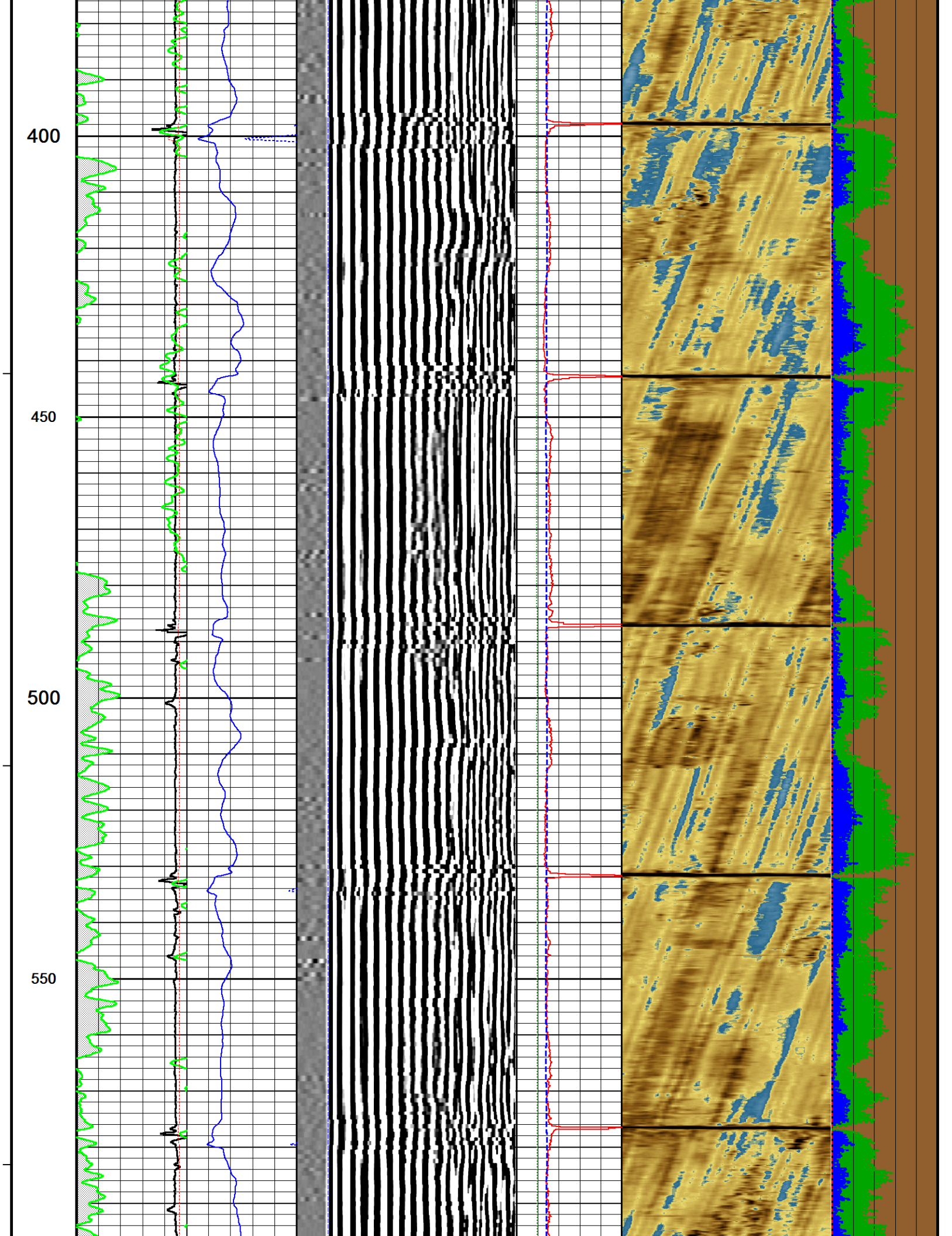
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	P 110	LTC	5.500	0.00	12184.00	20.00

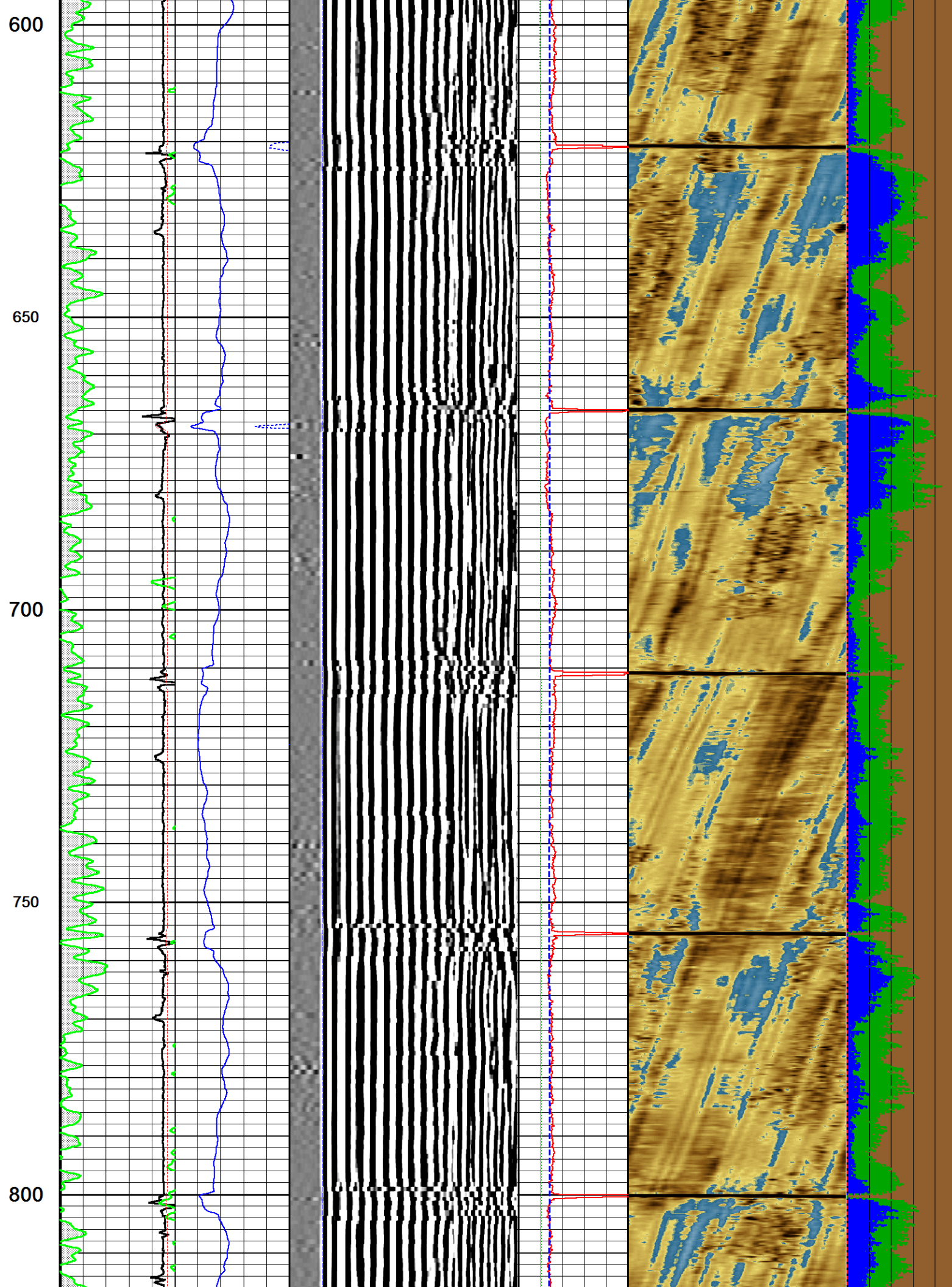
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

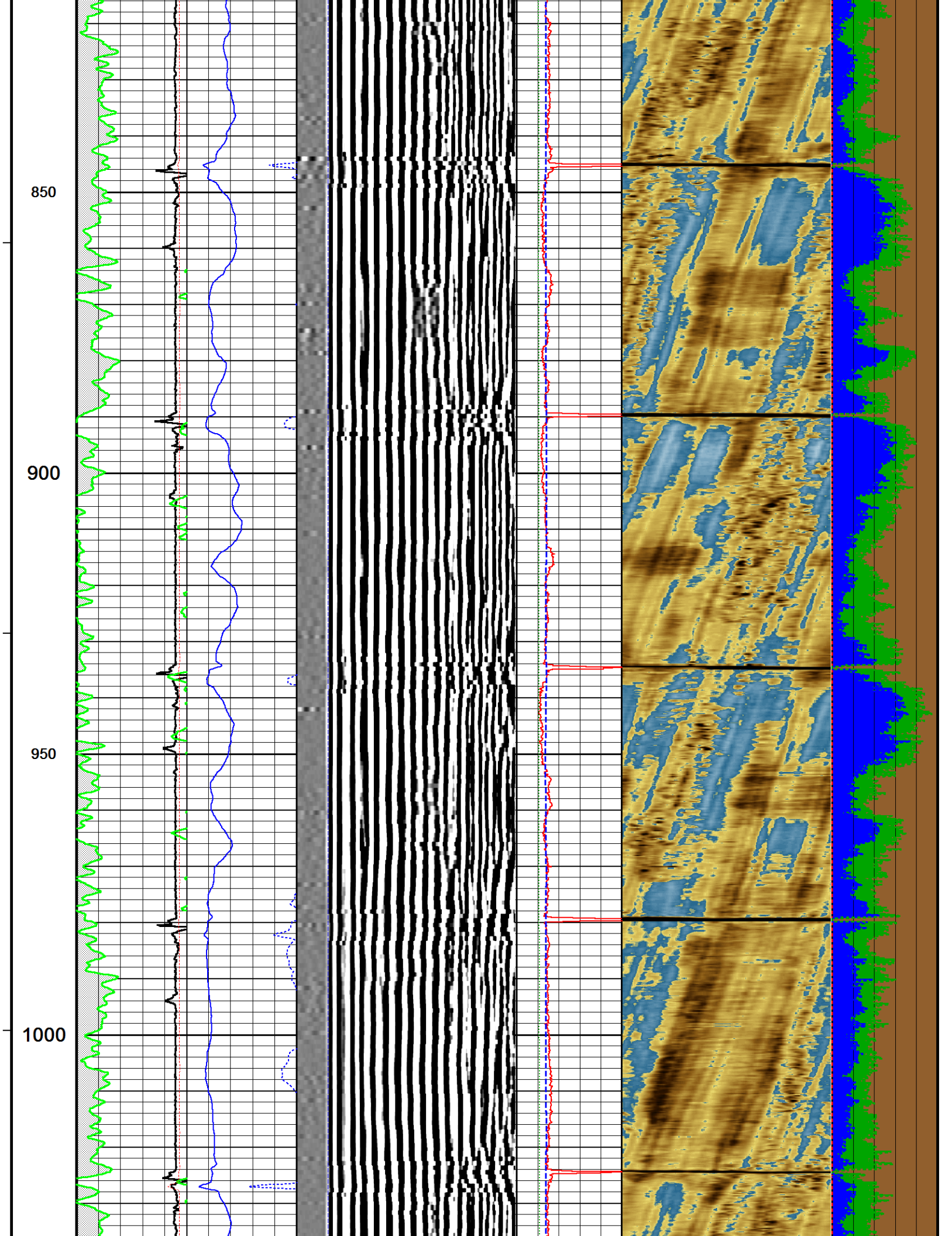
MAIN PASS 1:240						
Depth Based Data - Maximum Sampling Increment 2.5cm					Plotted on 07-OCT-2017 12:28	
Filename: C:\Logs\Extraction\LEONARD 6N\LEONARS 6N MAIN URS FINAL.dta					Recorded on 07-OCT-2017 11:30	
System Versions: Processed with 16.05.3841 Plotted with 16.05.3841						
Depth in Feet	XY Signature 5FT microseconds			IMAV K/M2	Impd Map MRAYLS	PGAS PERC
	CCL MV	AM3F MV	-10000 10000			

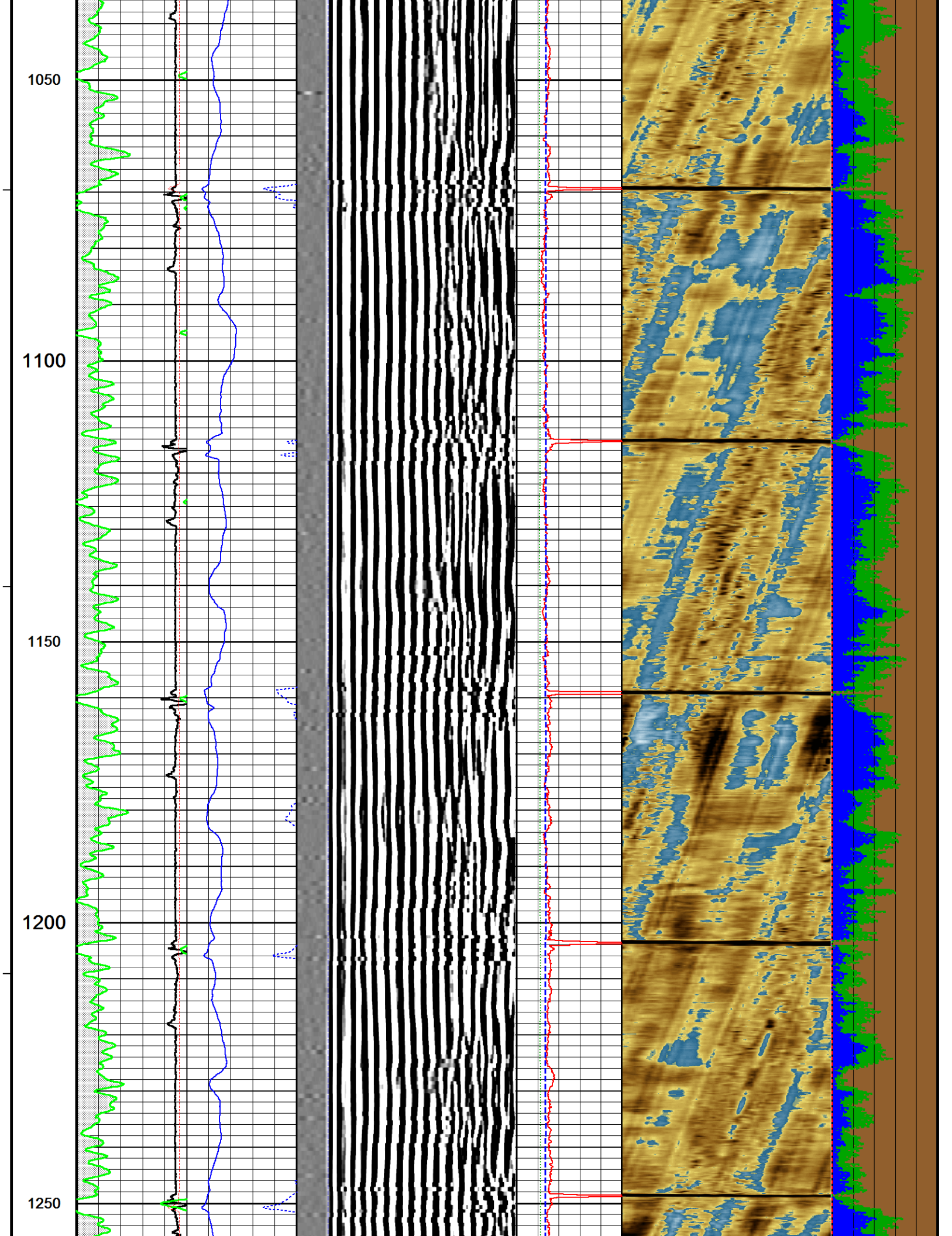


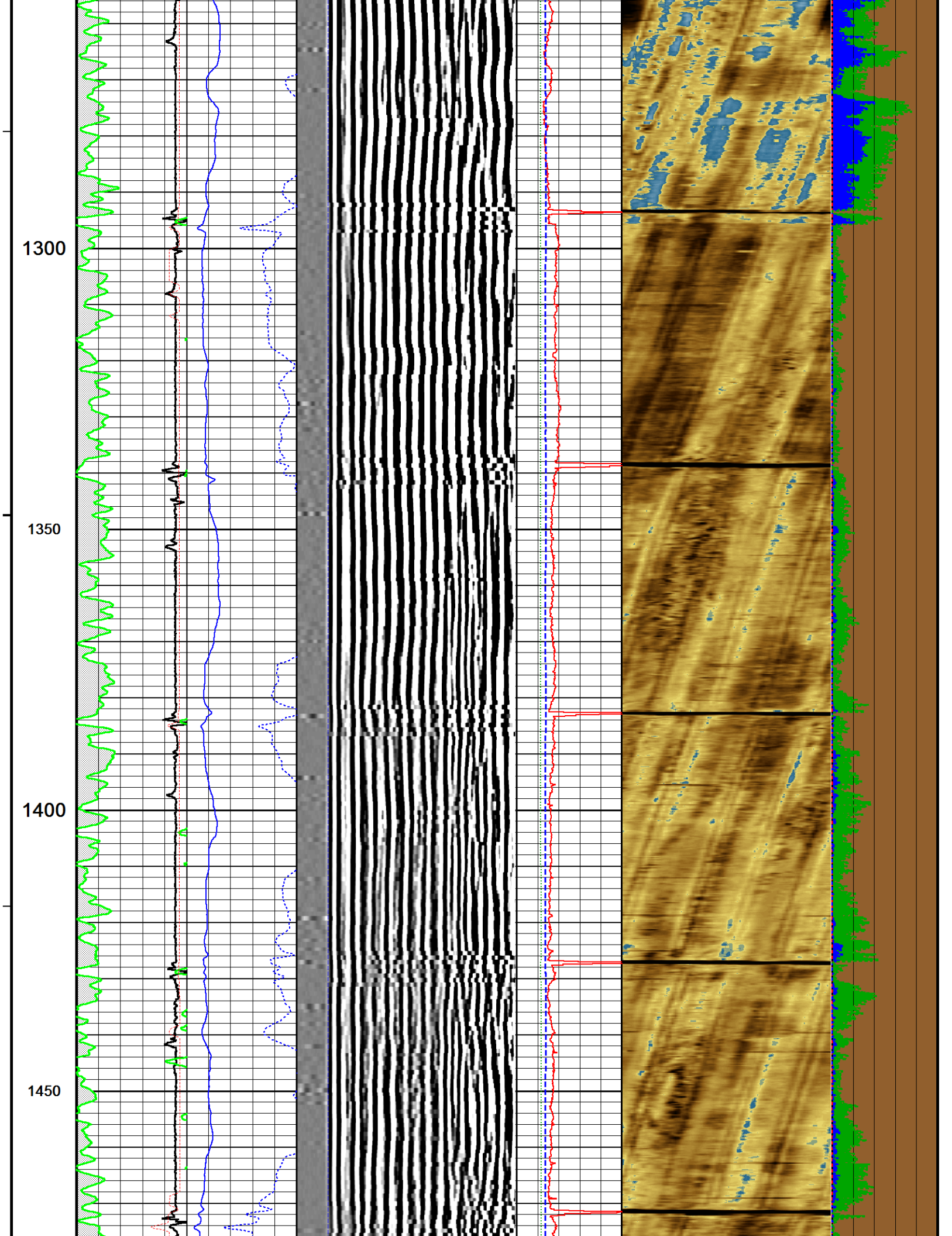


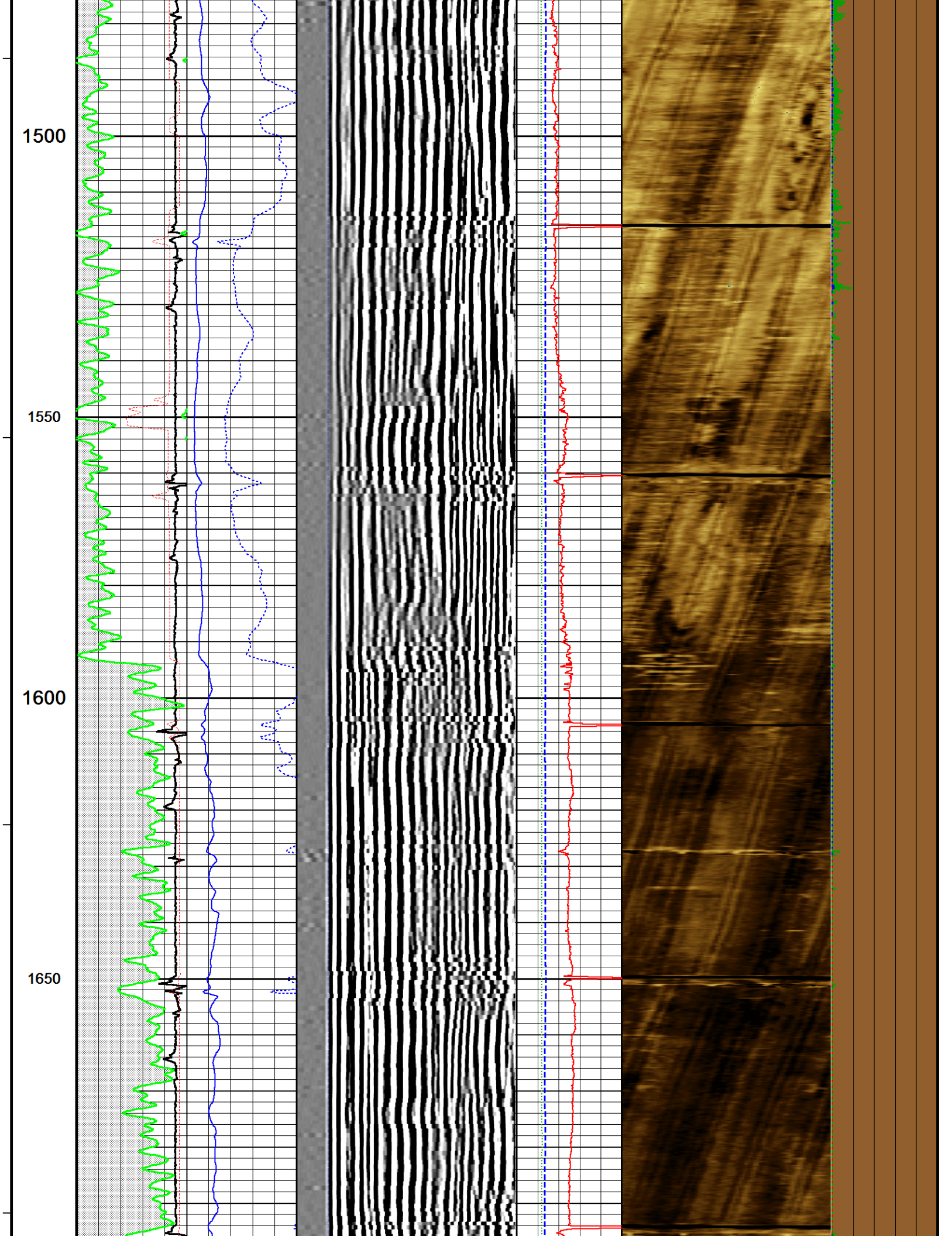


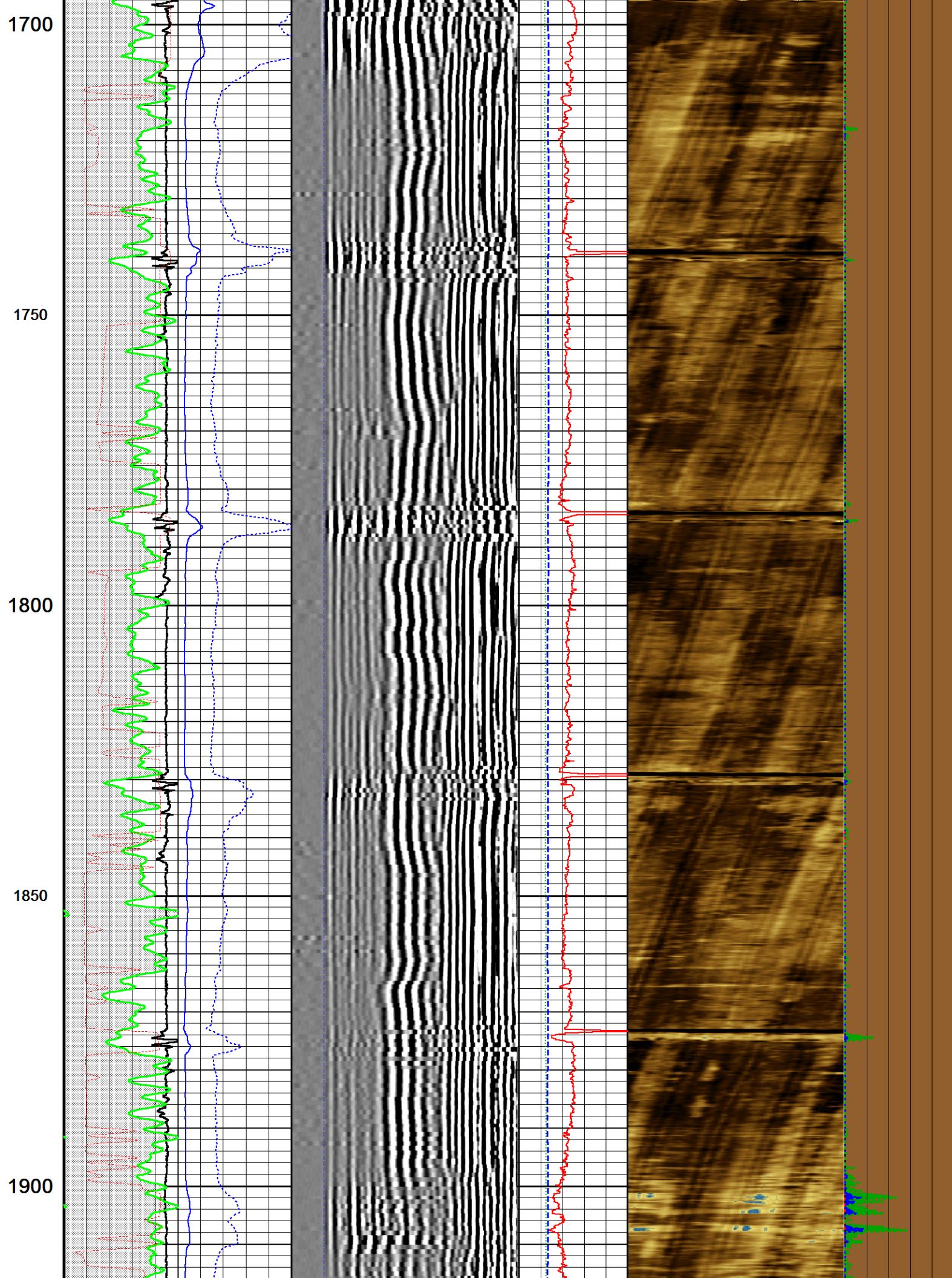


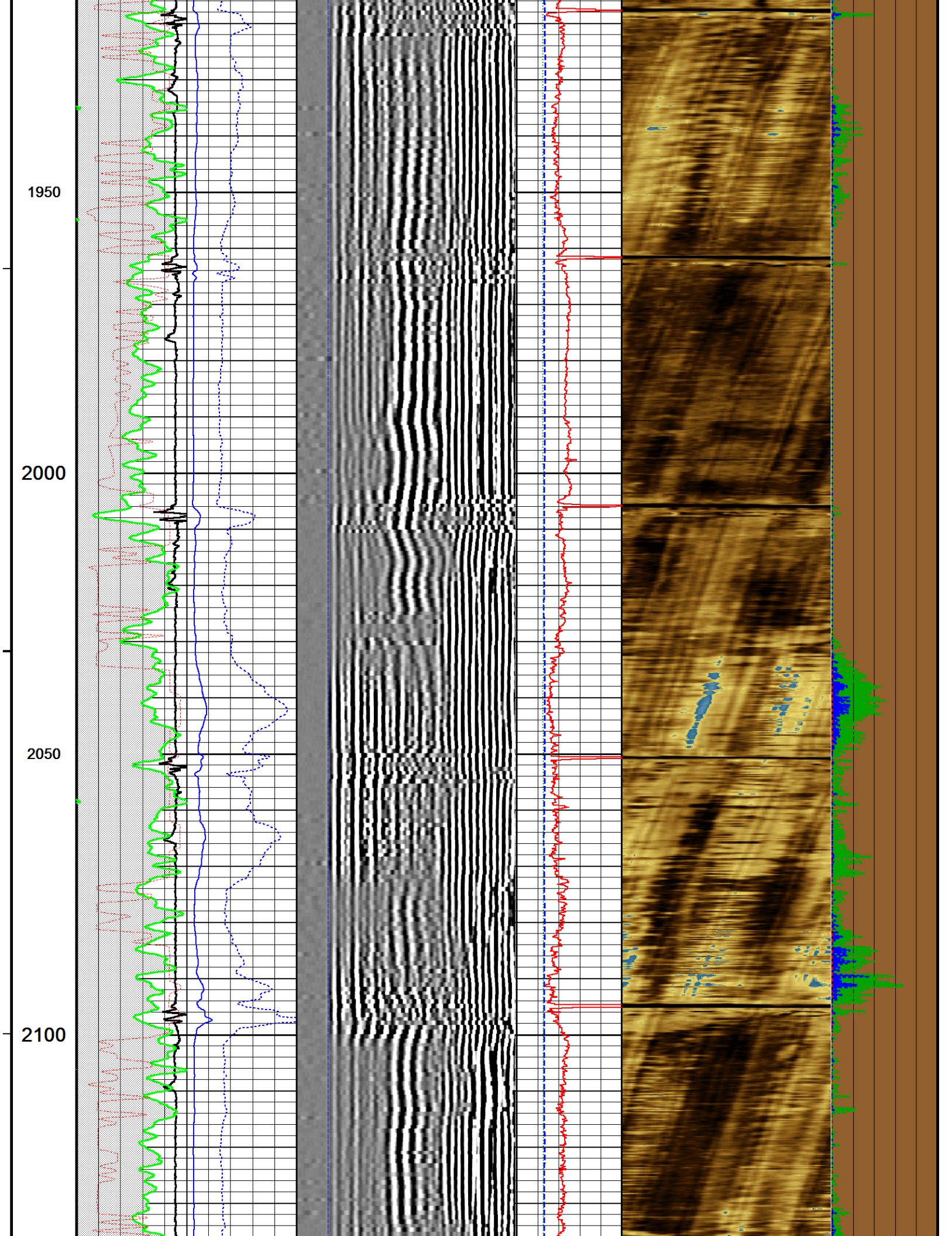


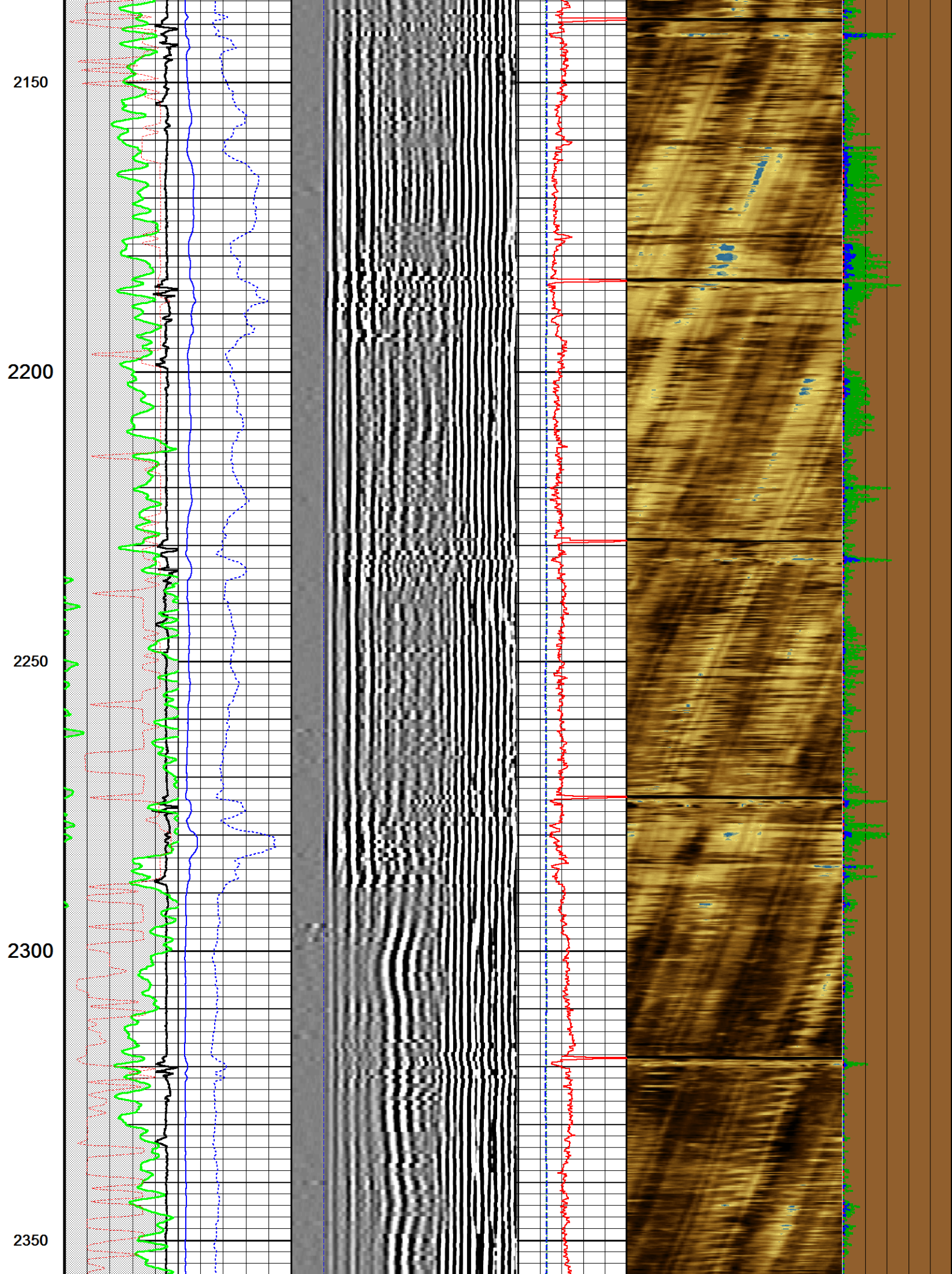


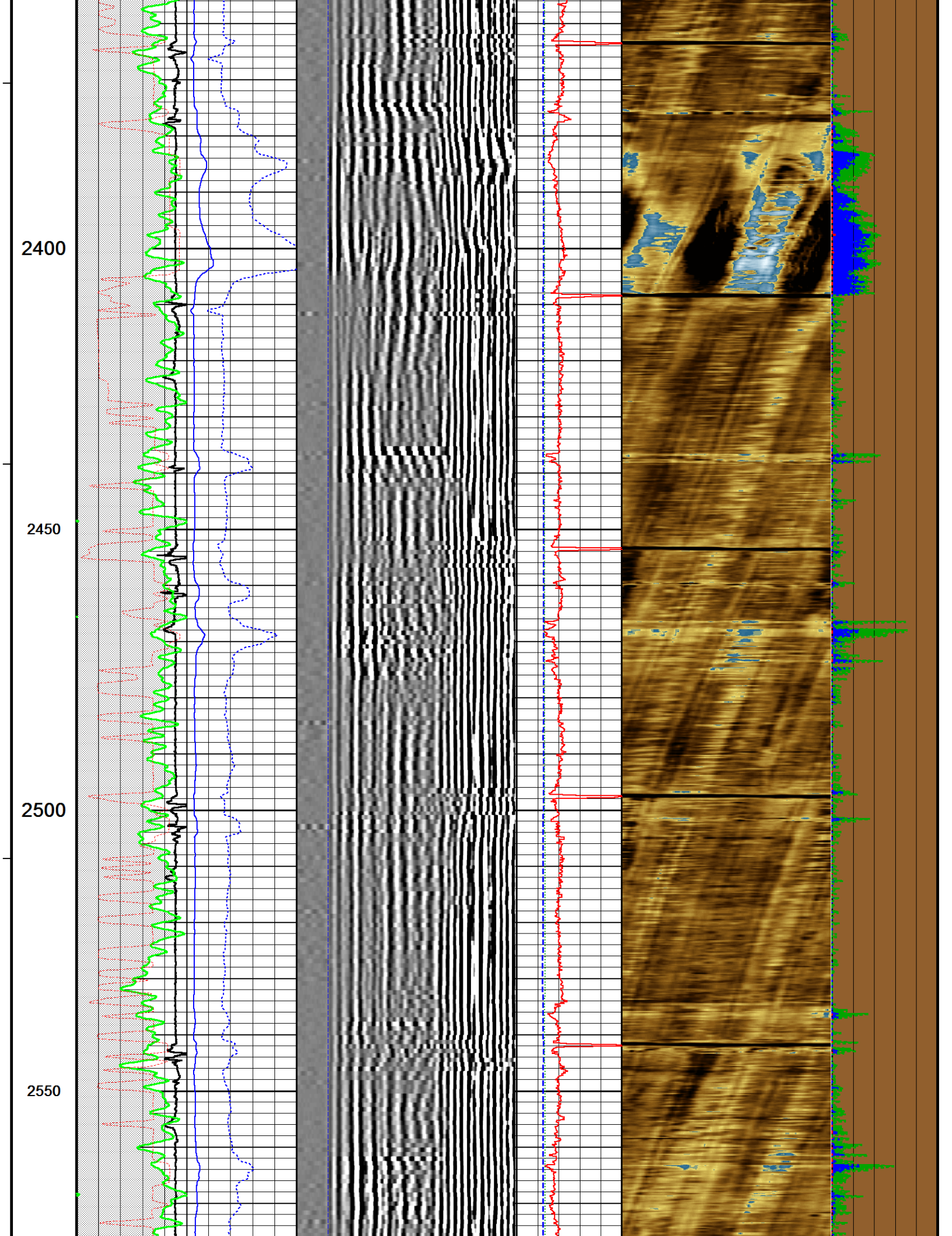










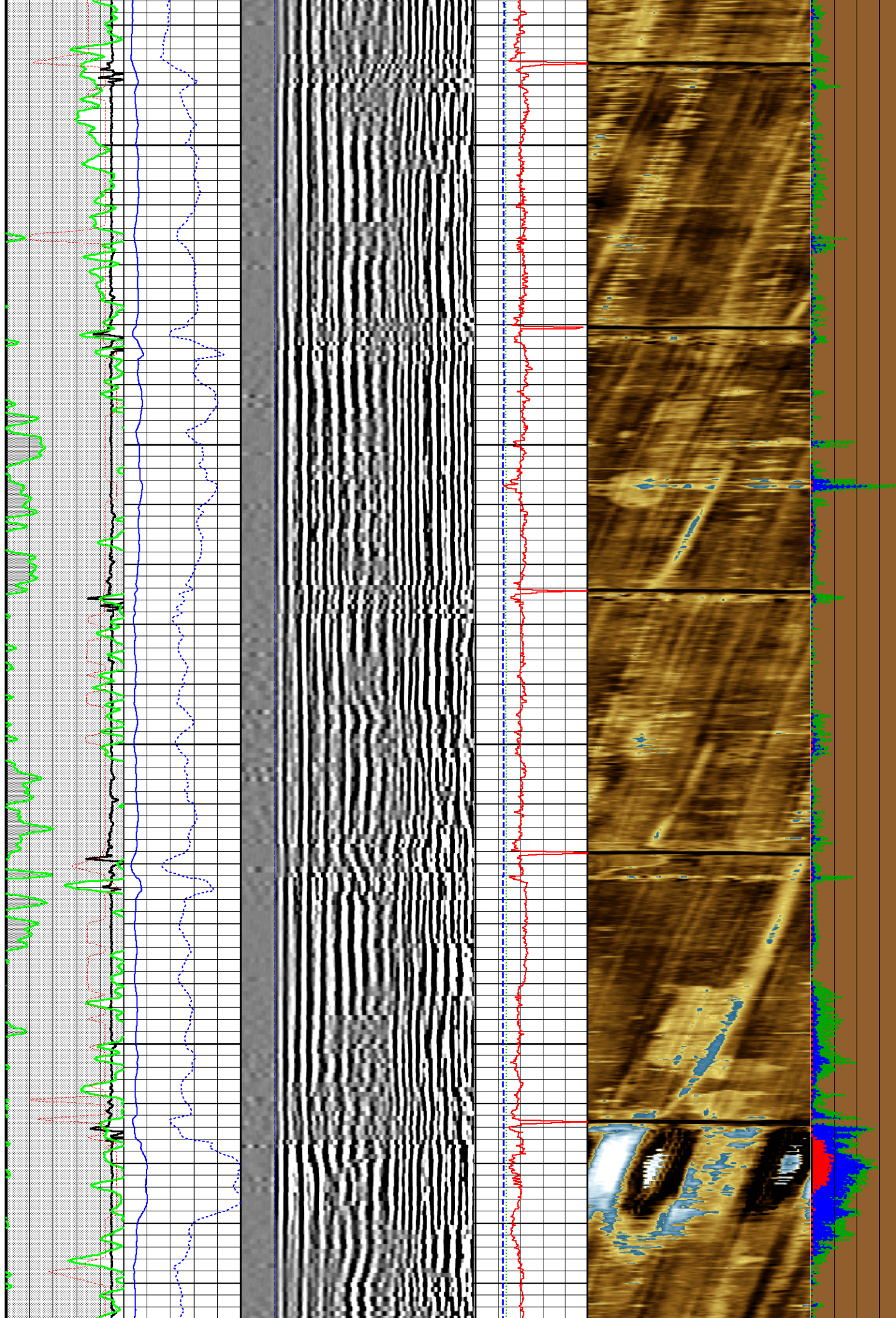


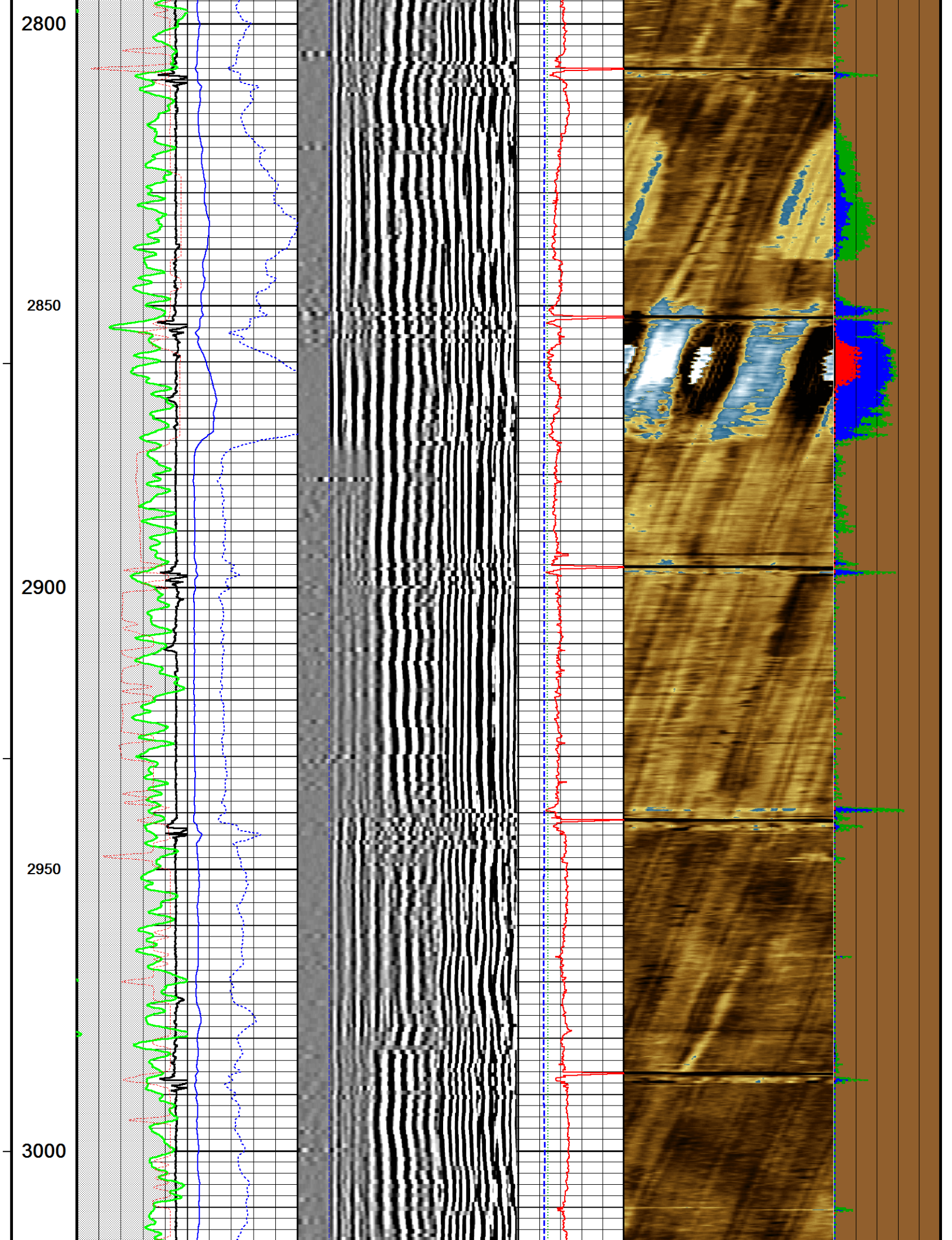
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2650

2700

2750



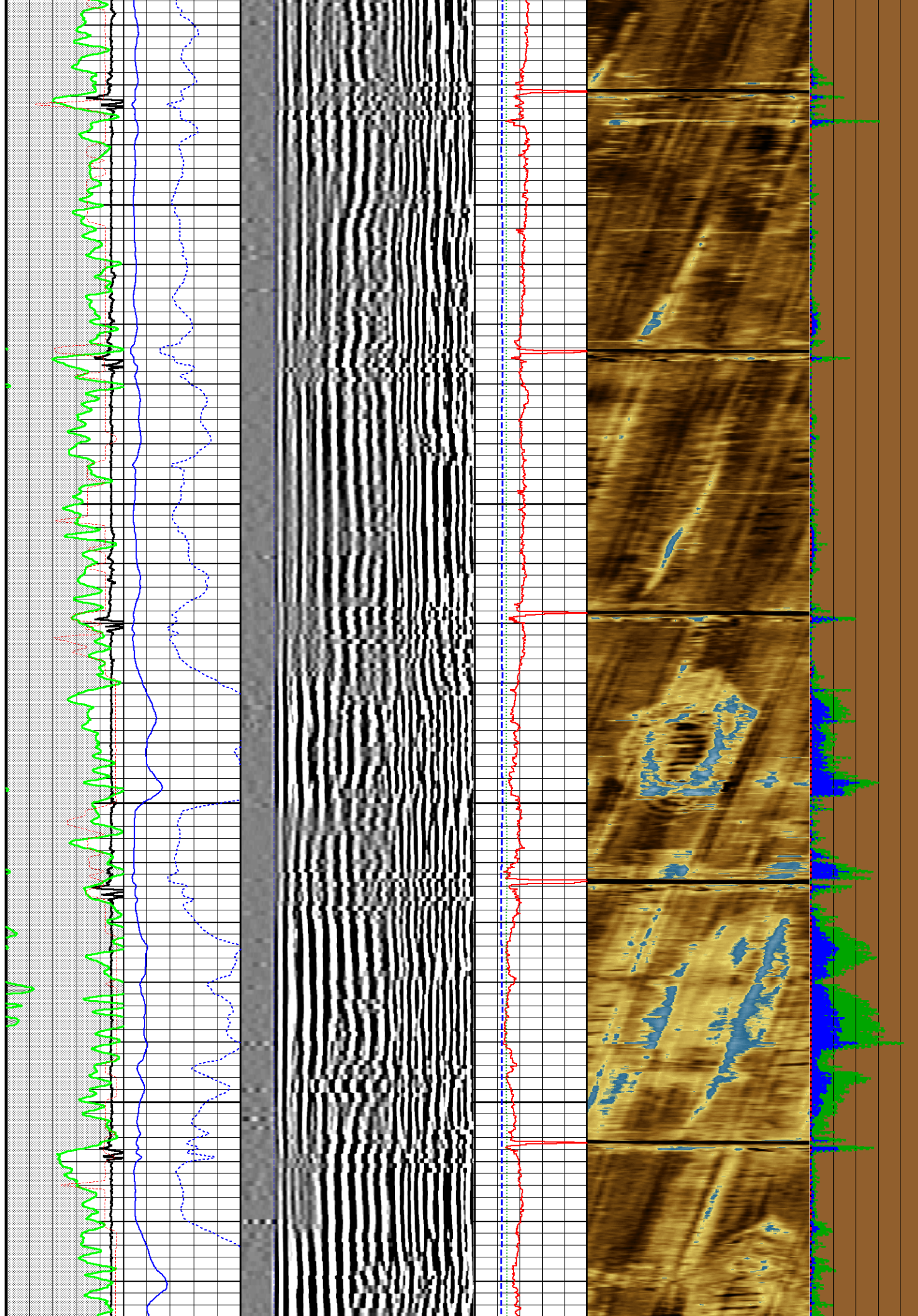


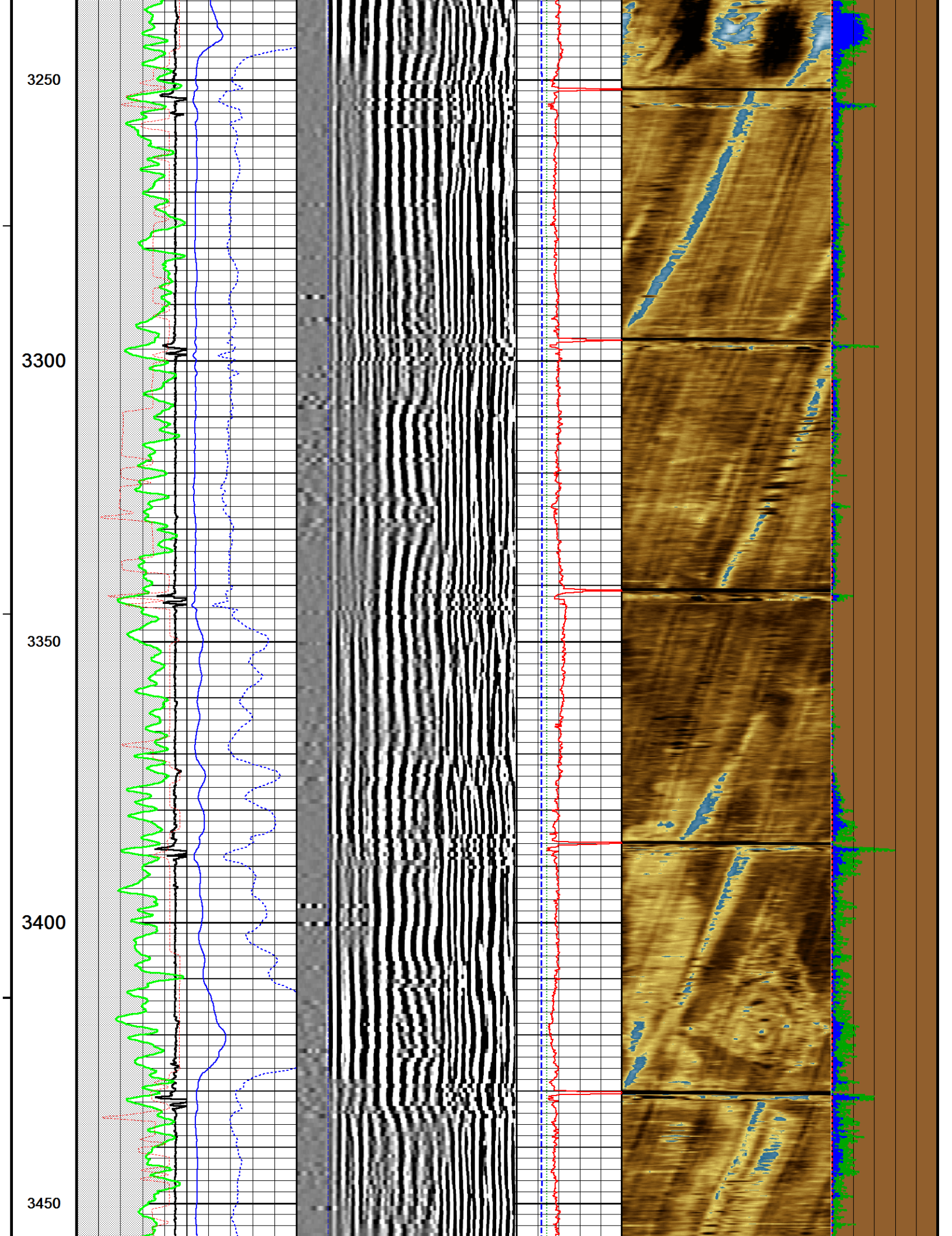
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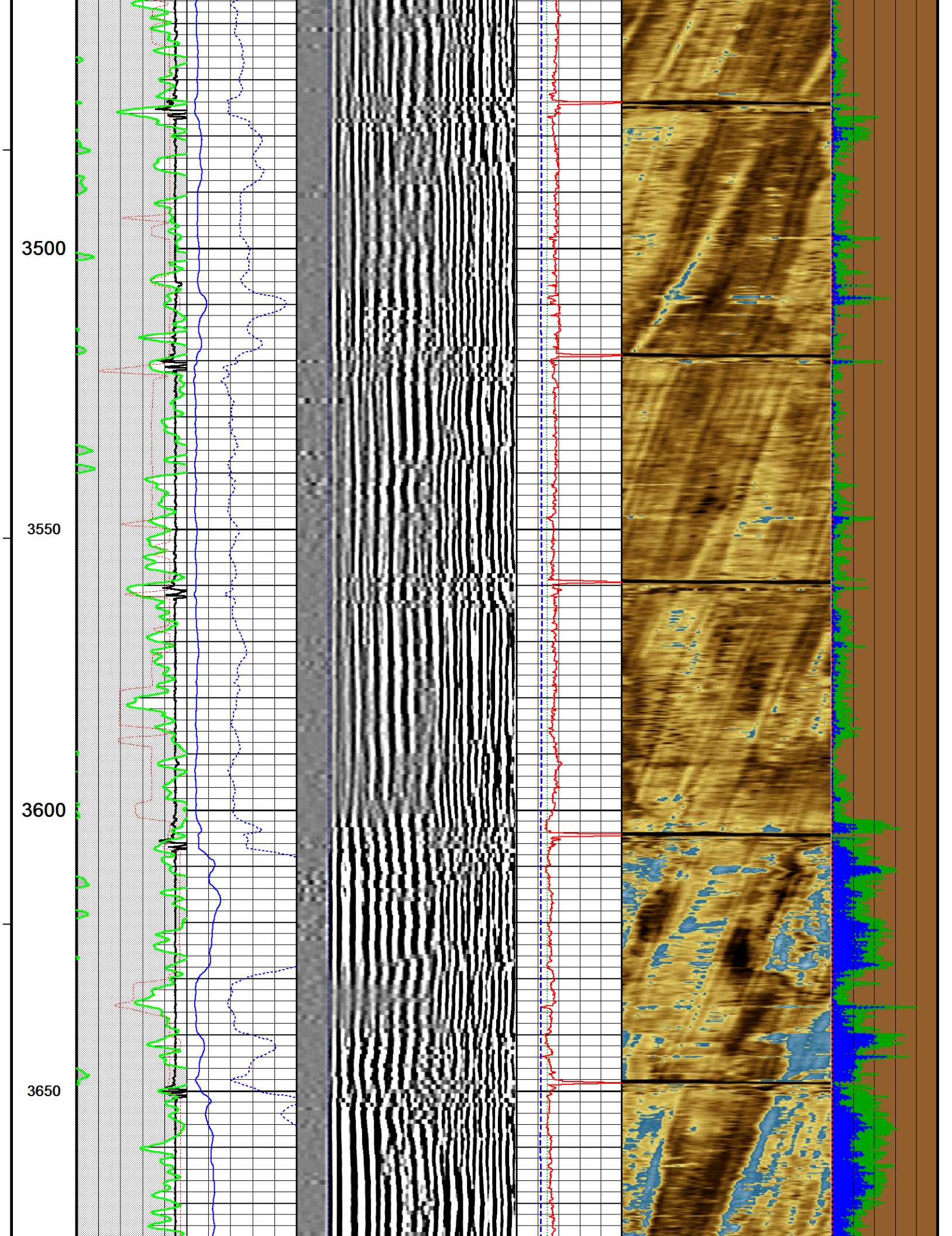
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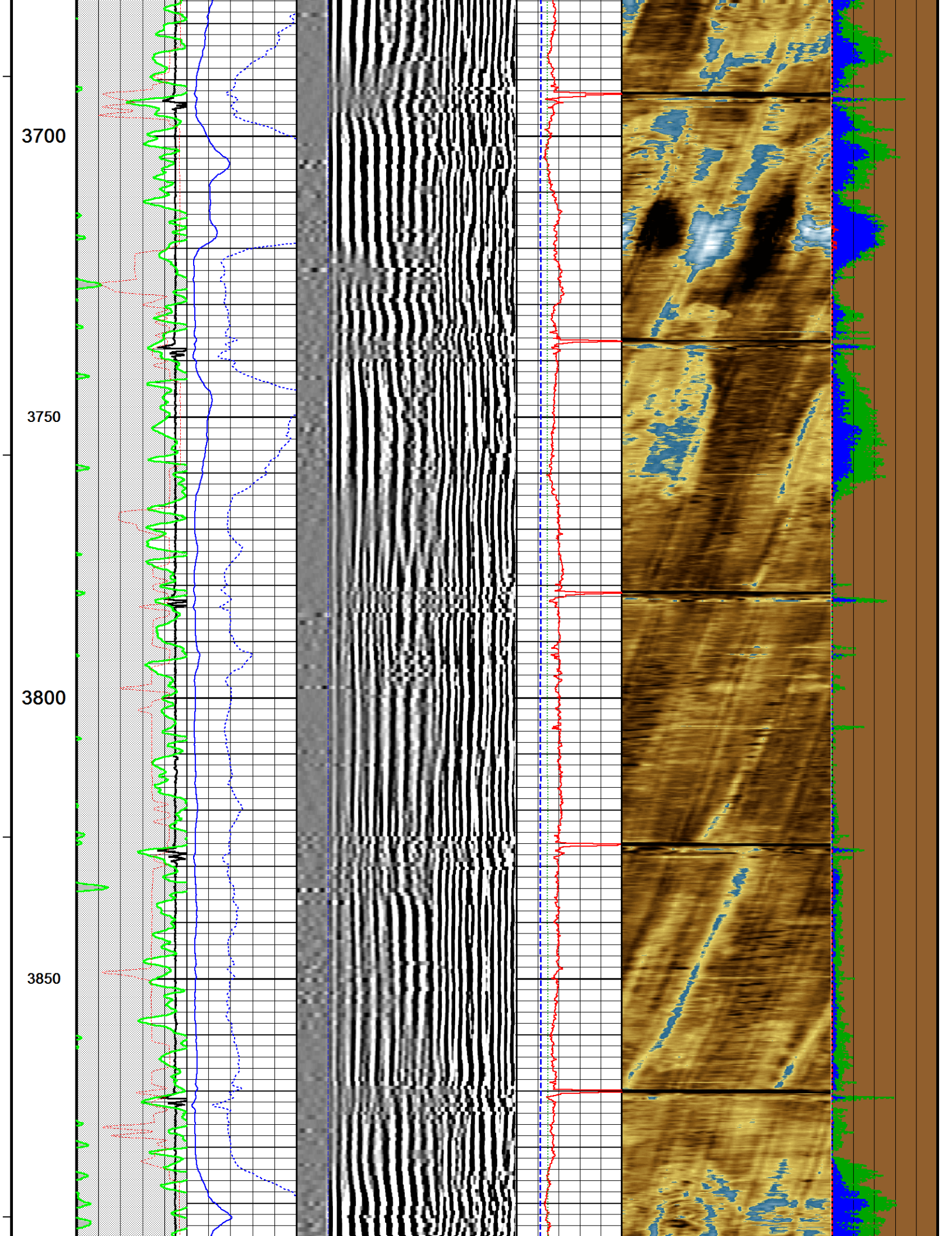
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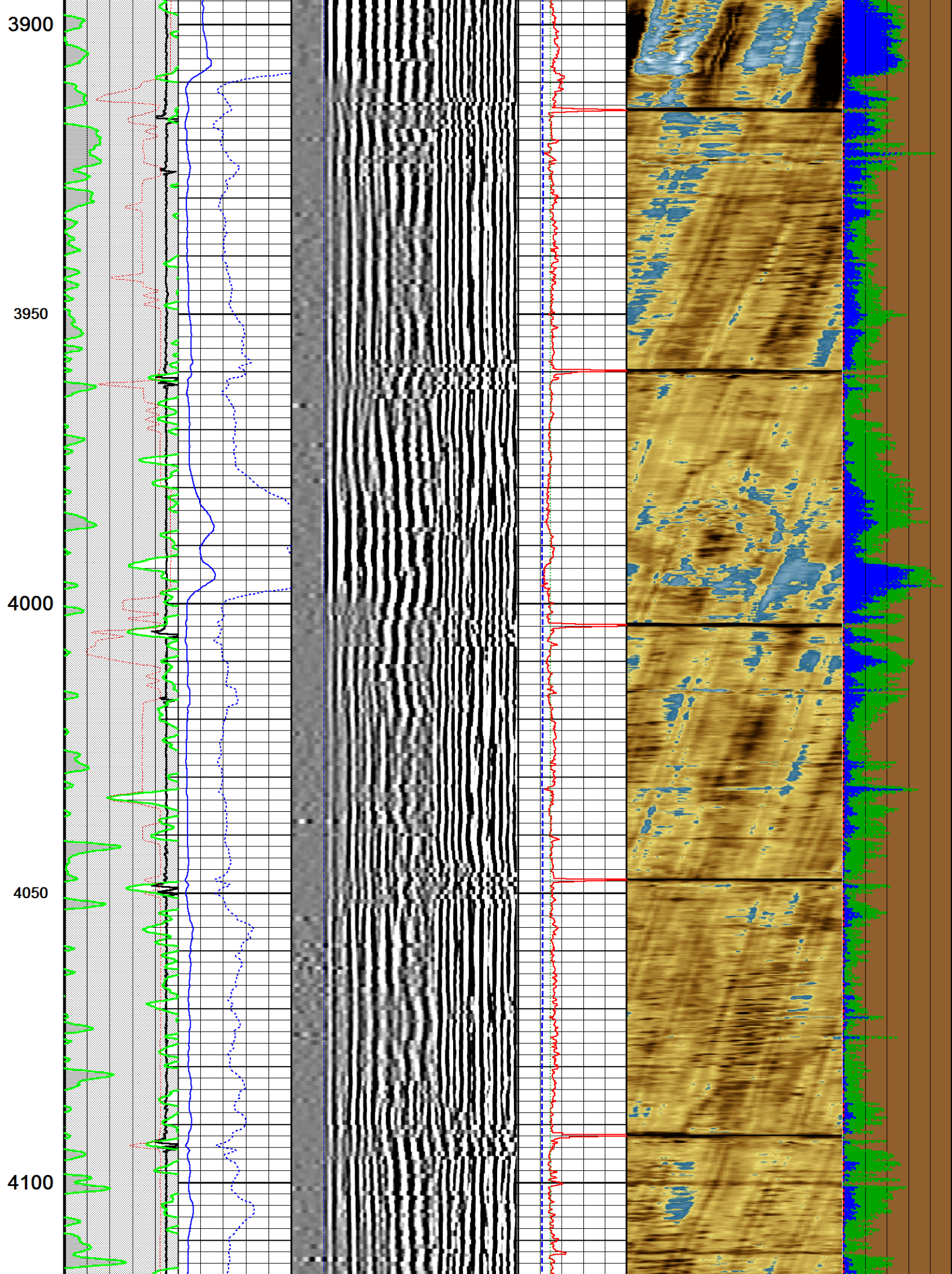
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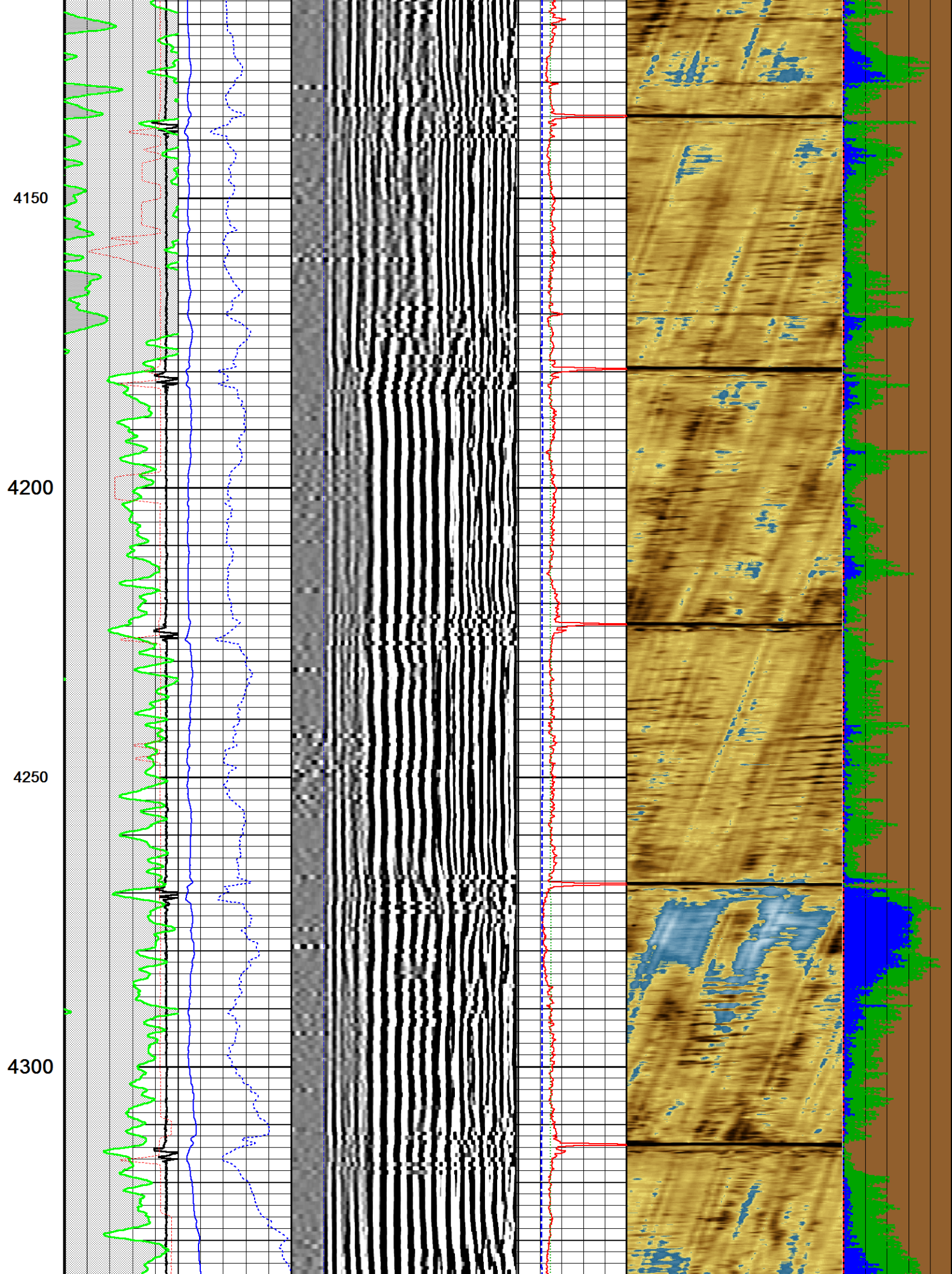


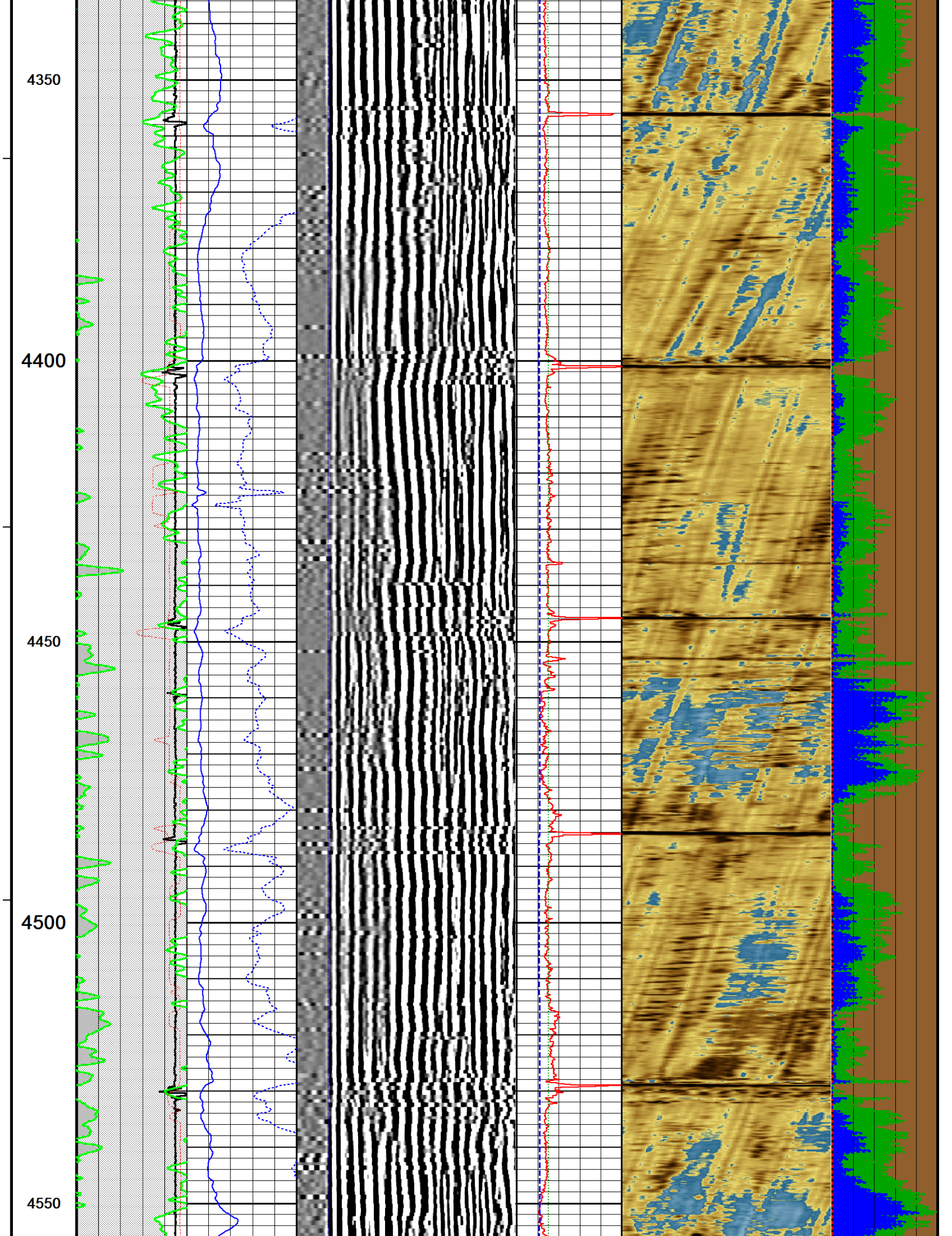


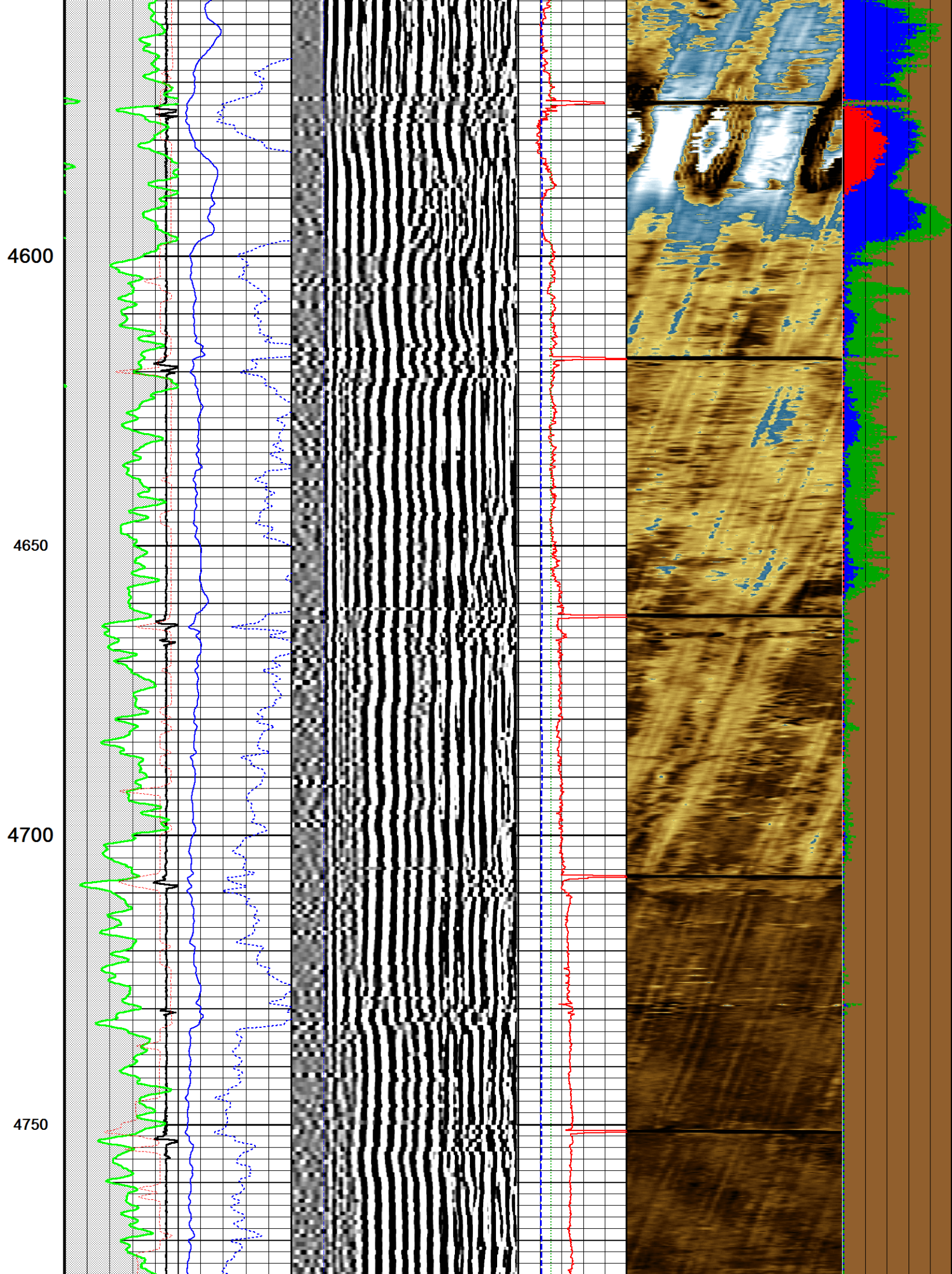










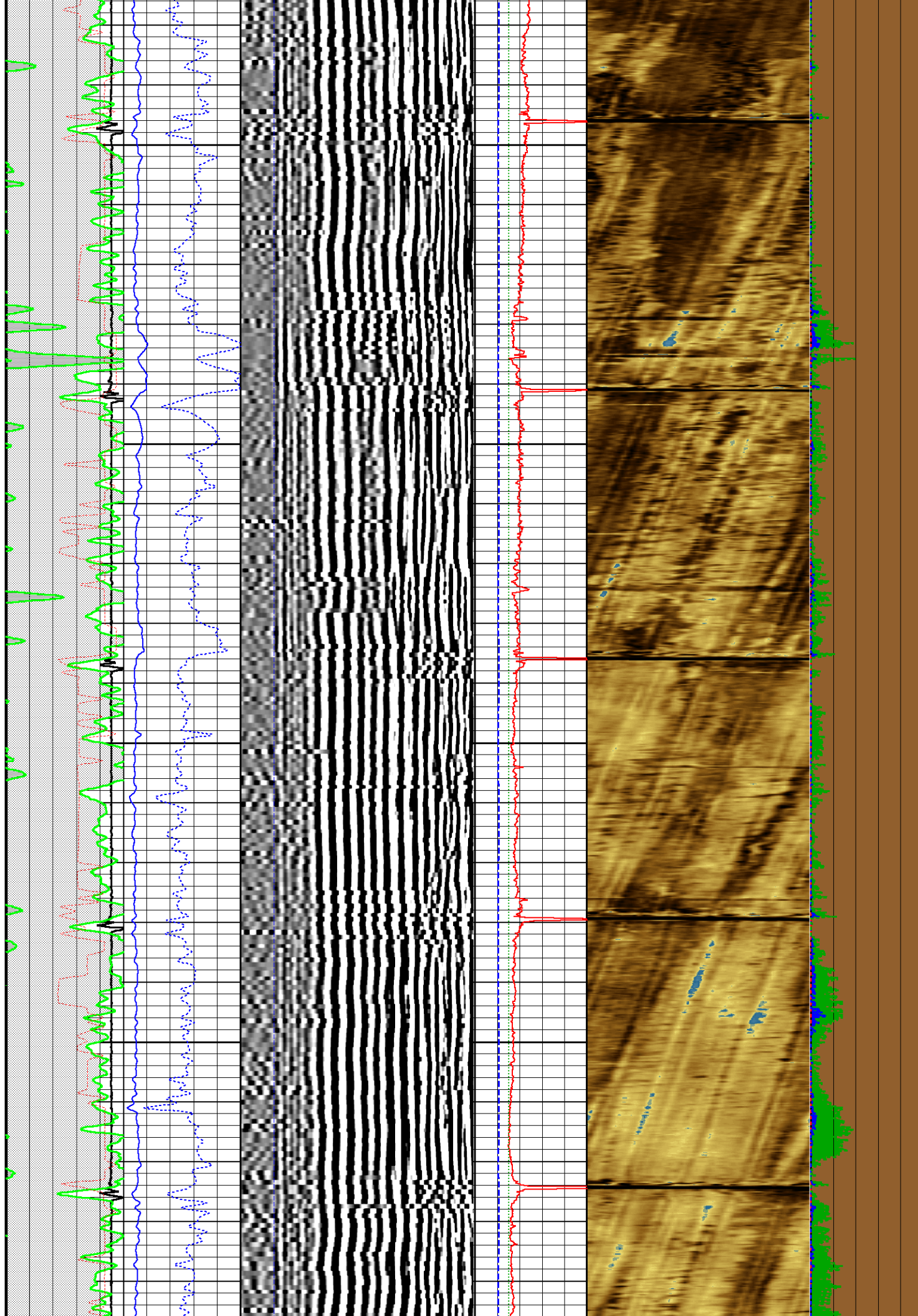


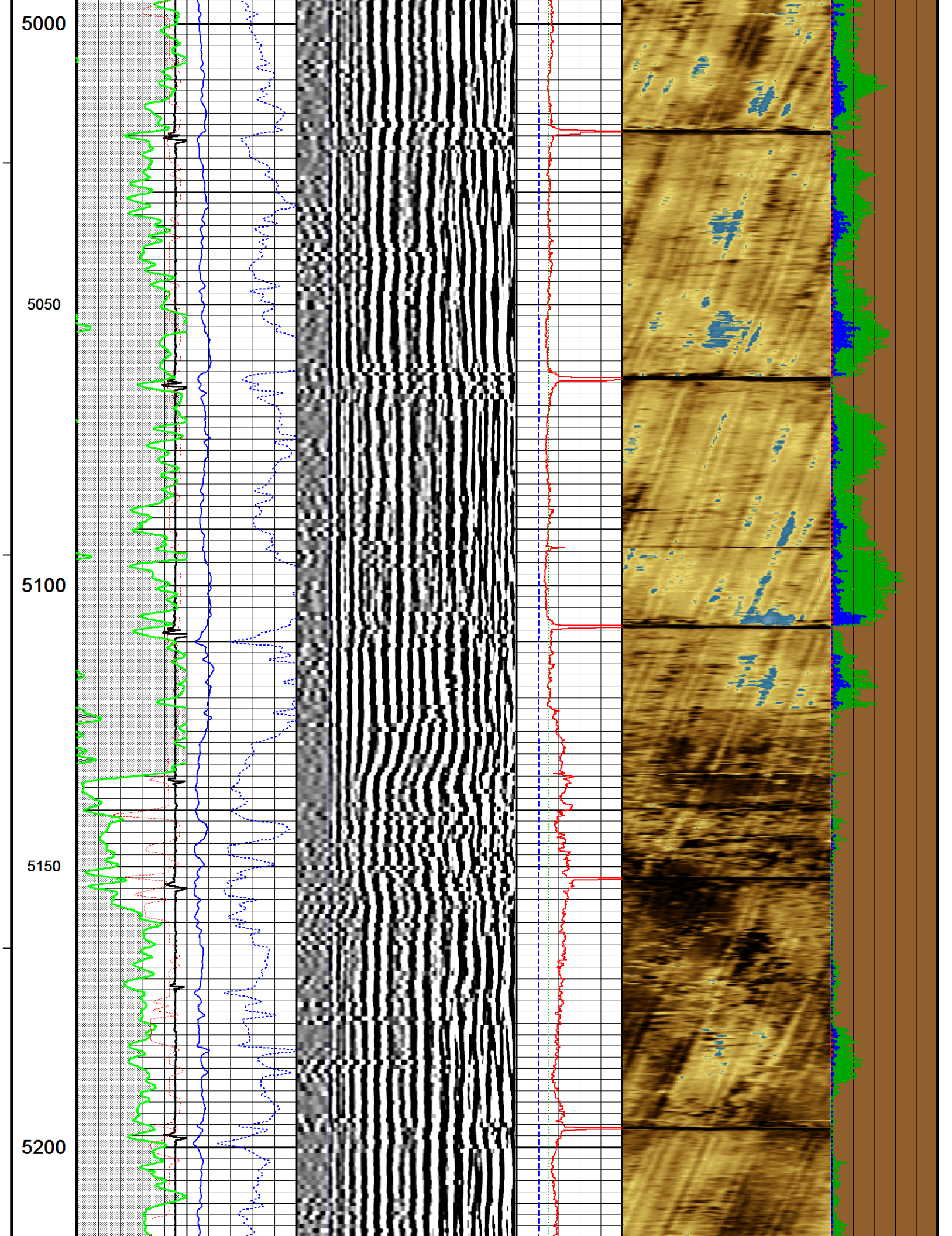
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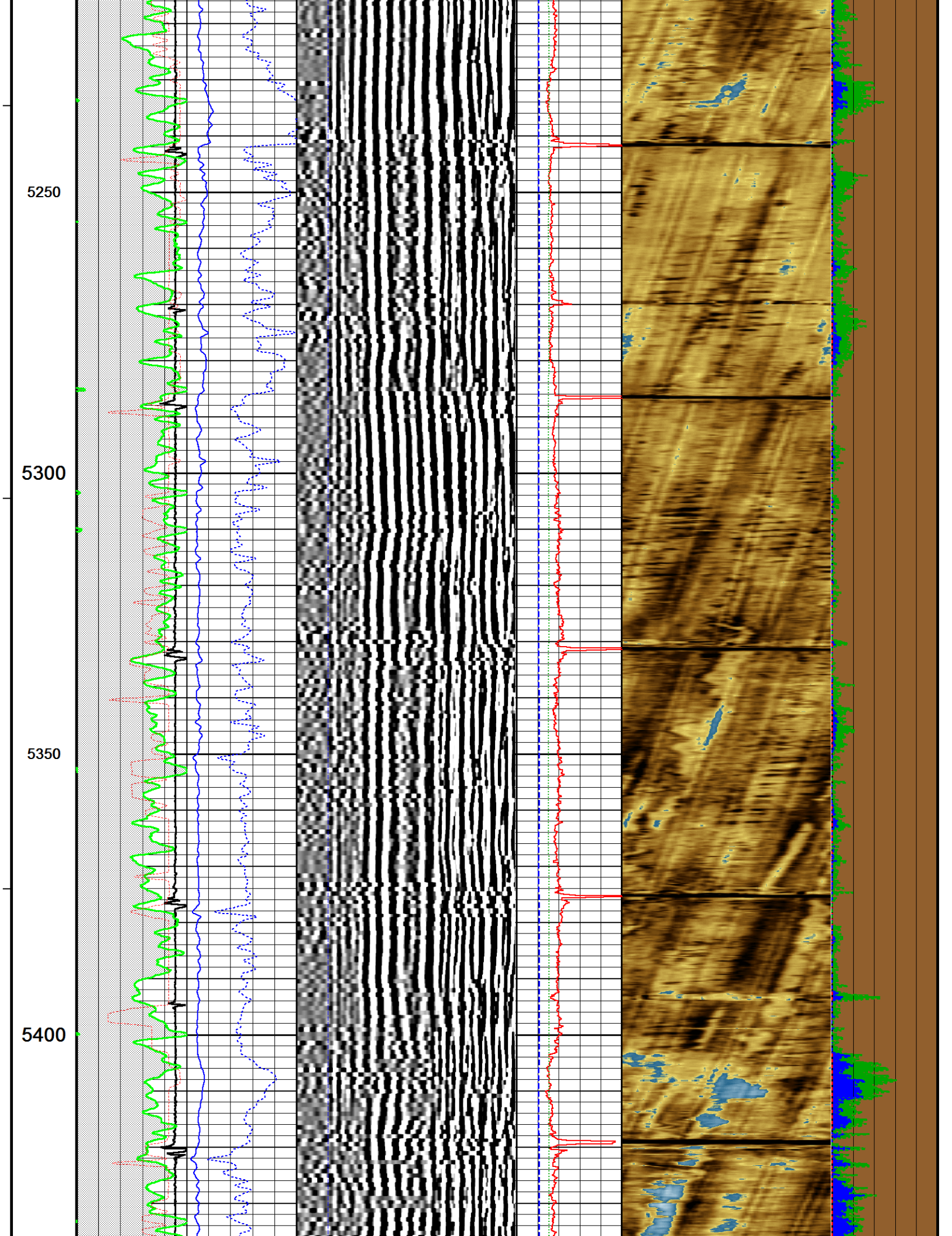
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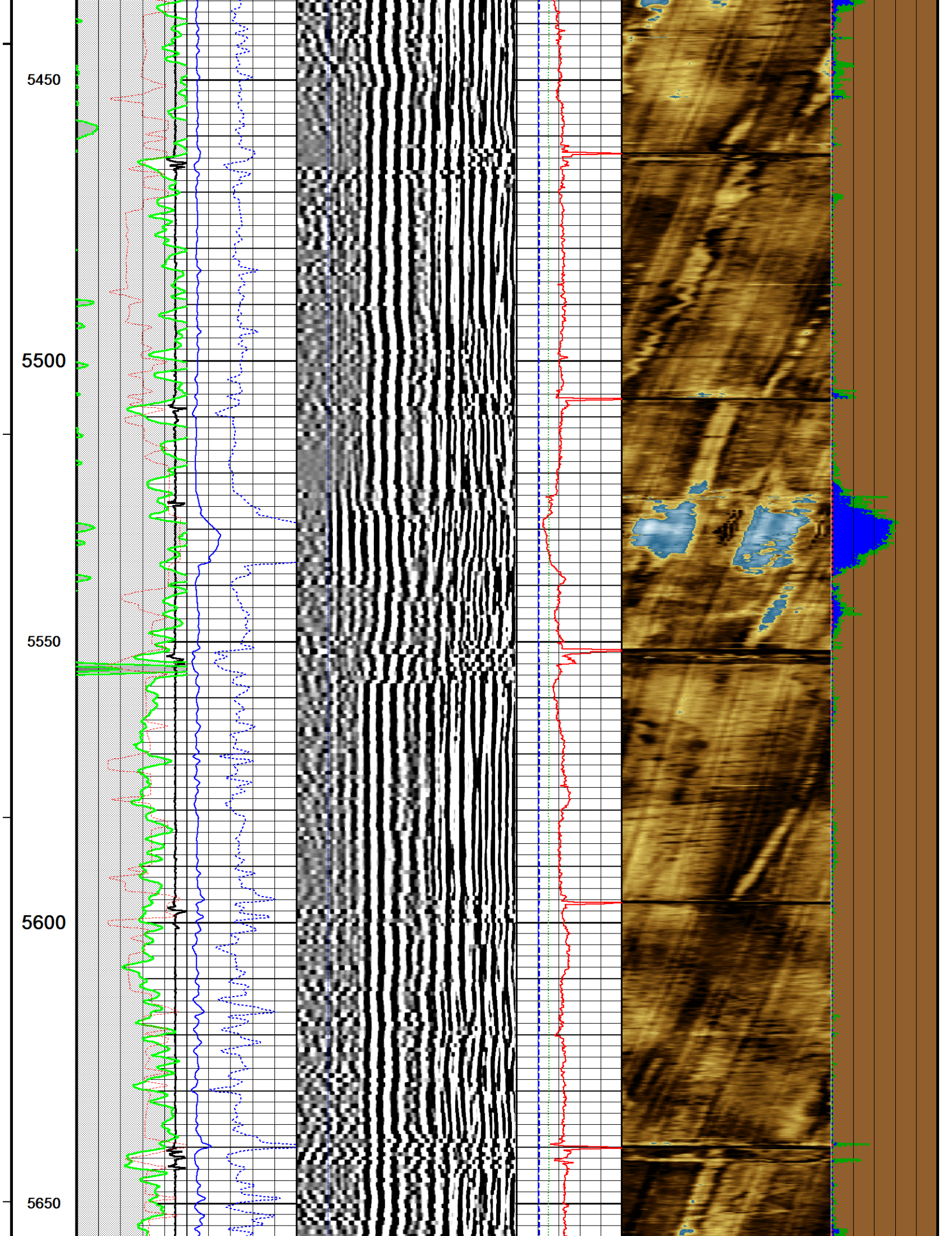
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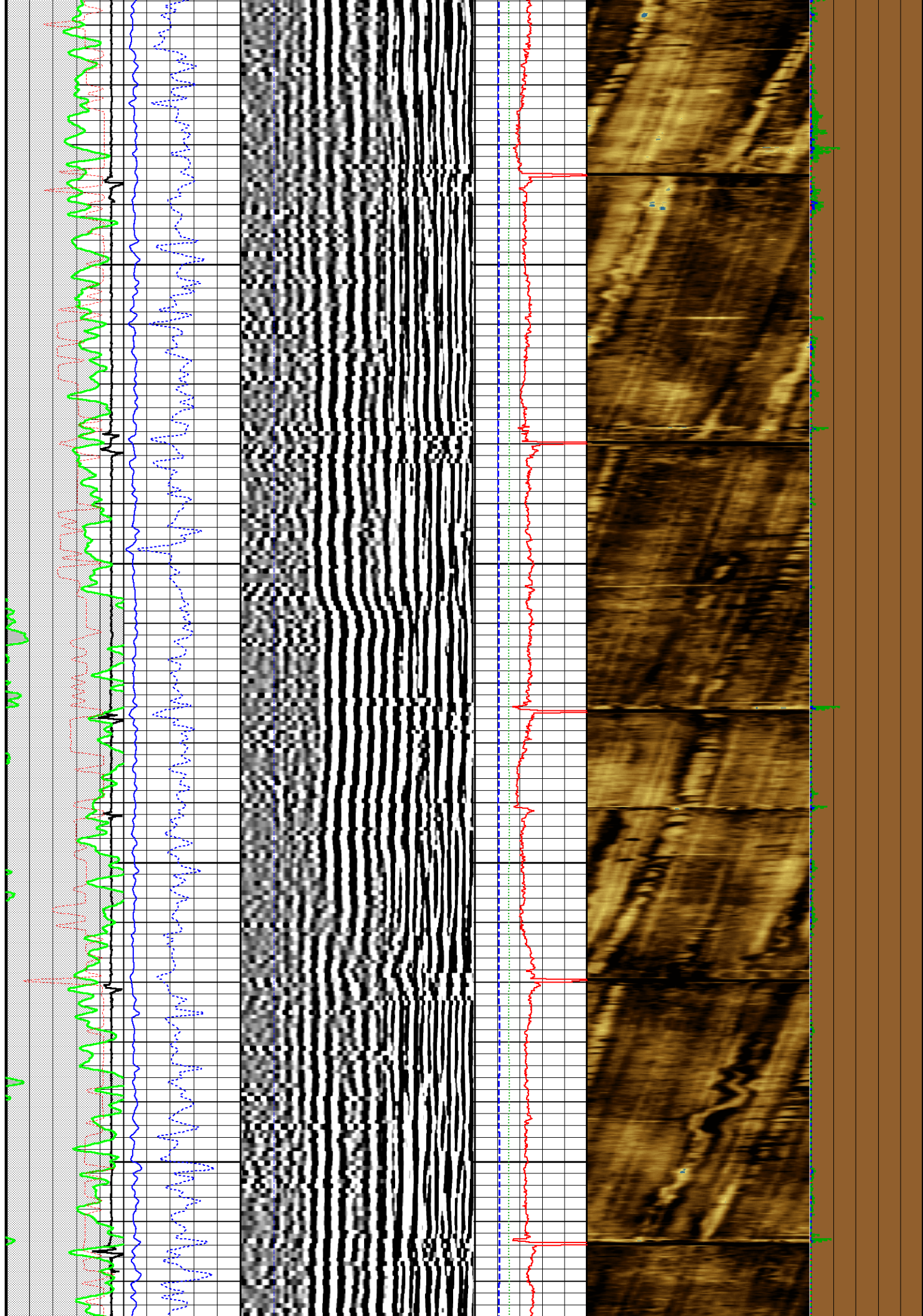


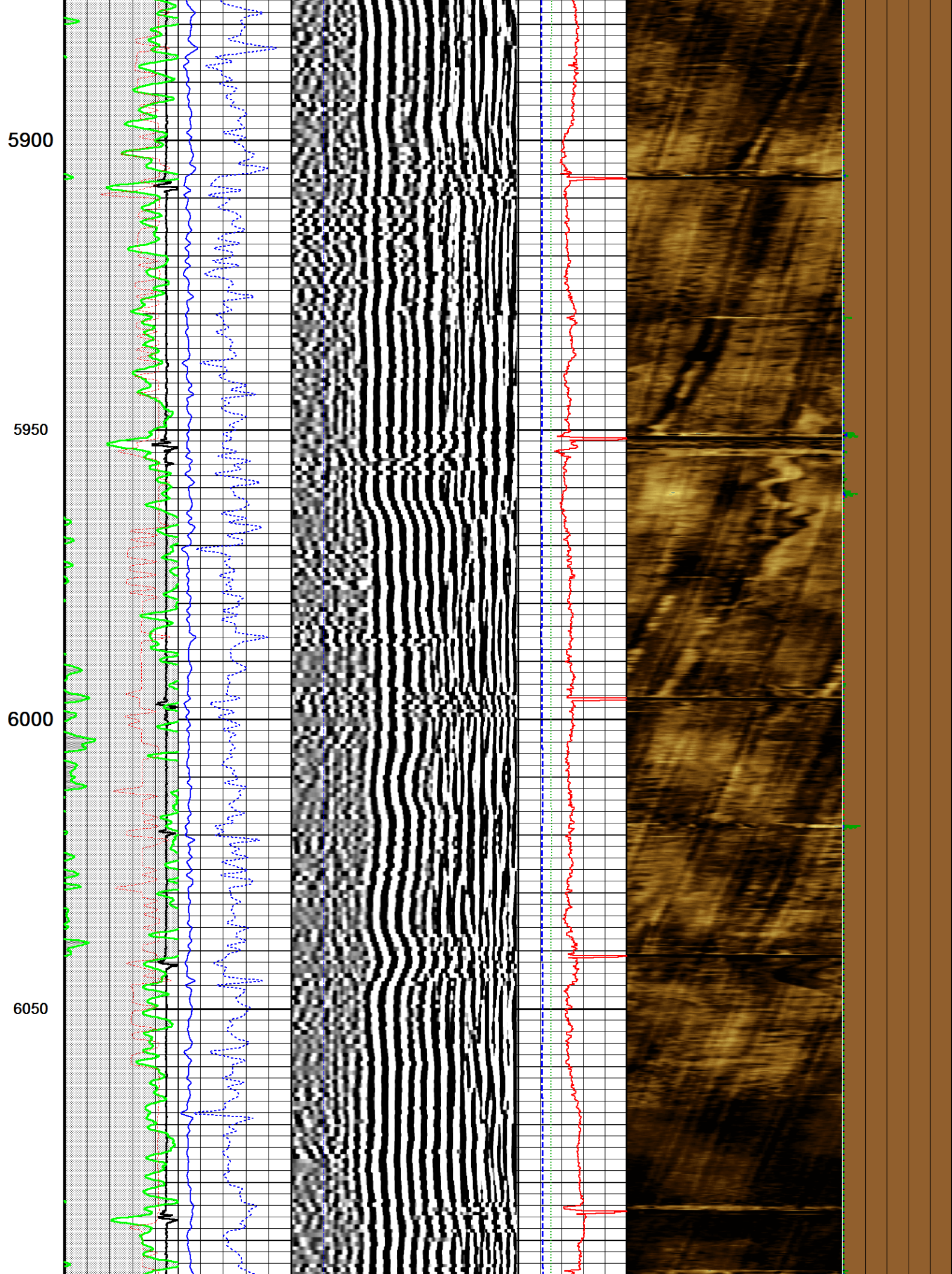
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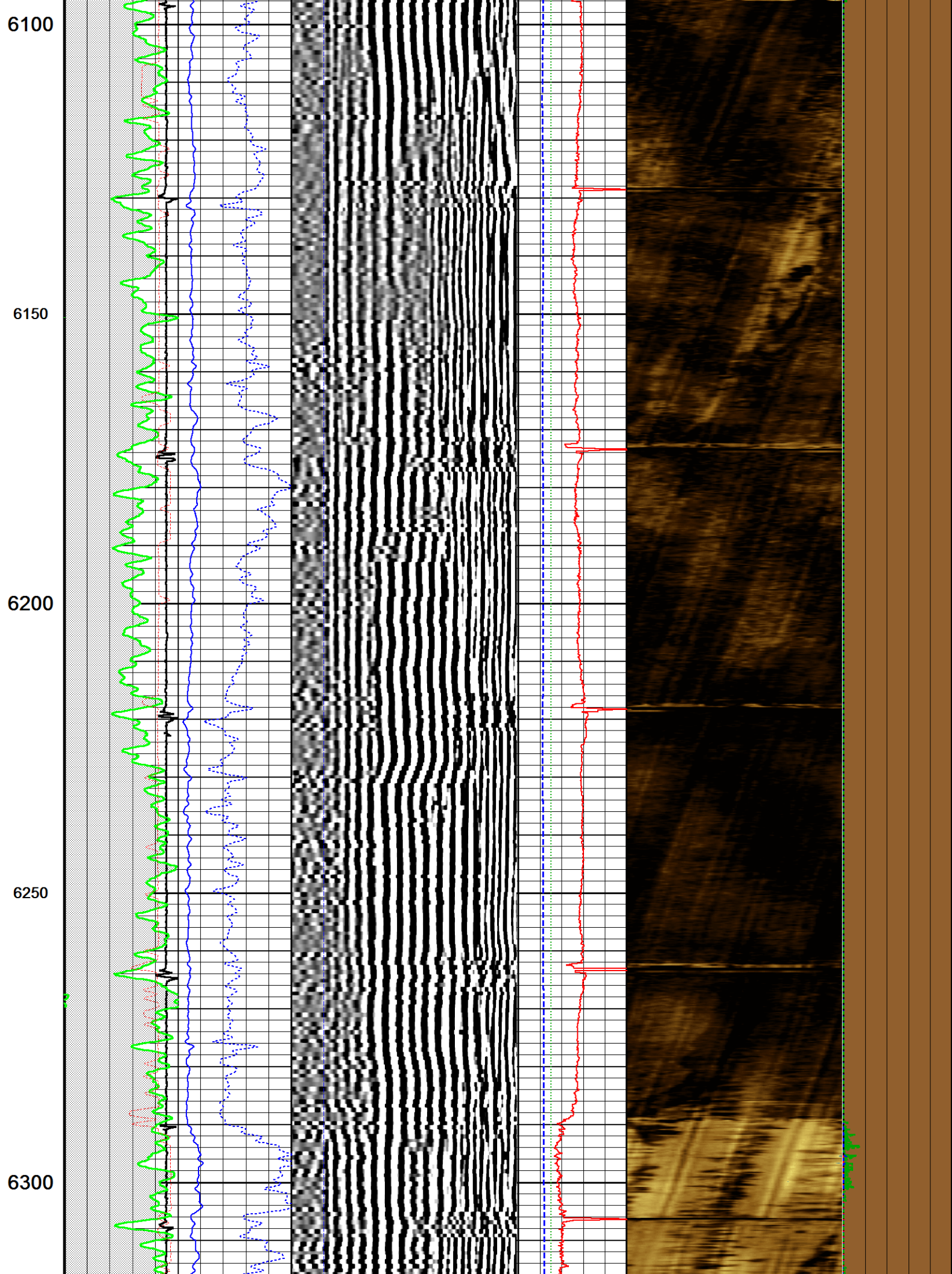
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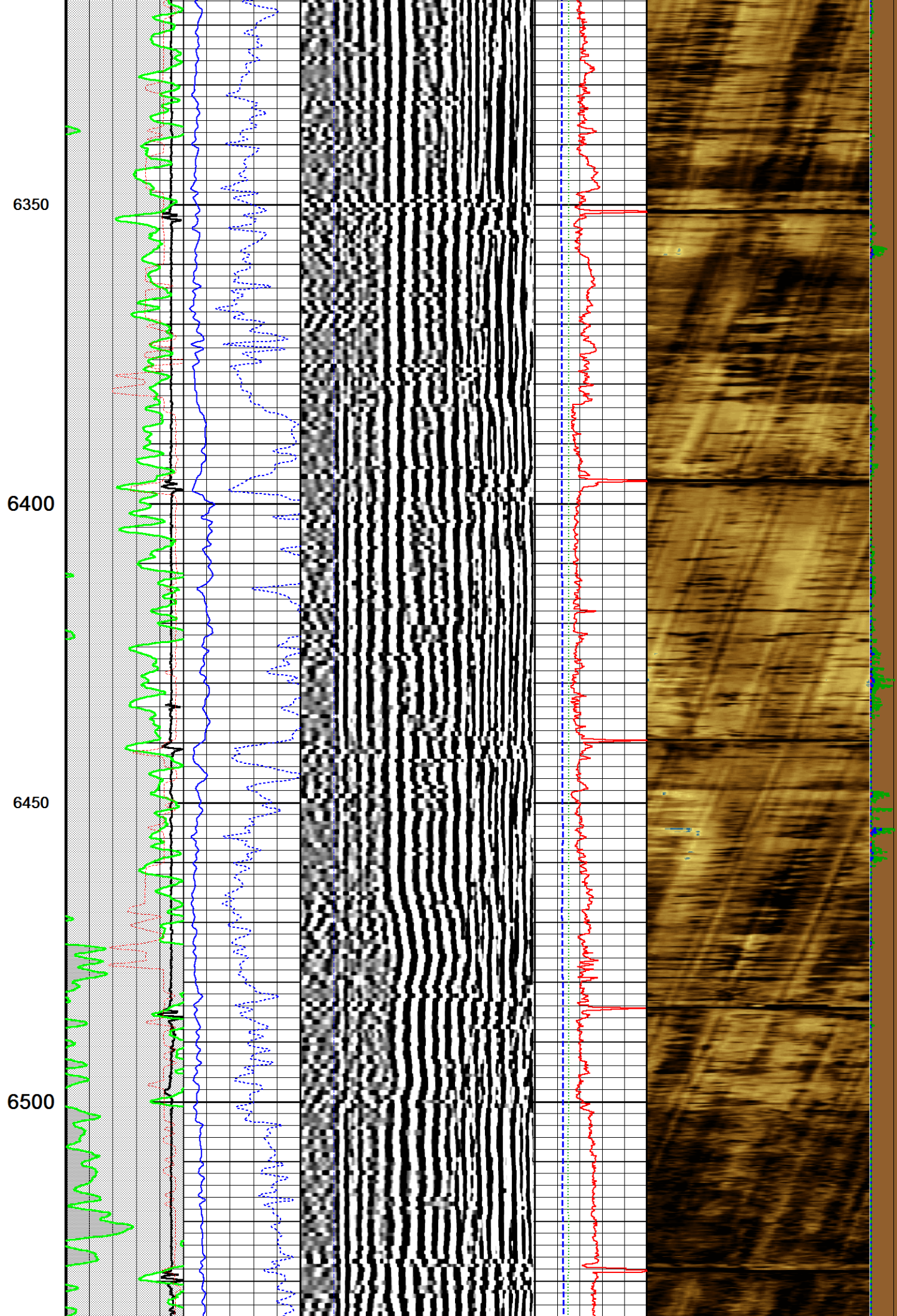
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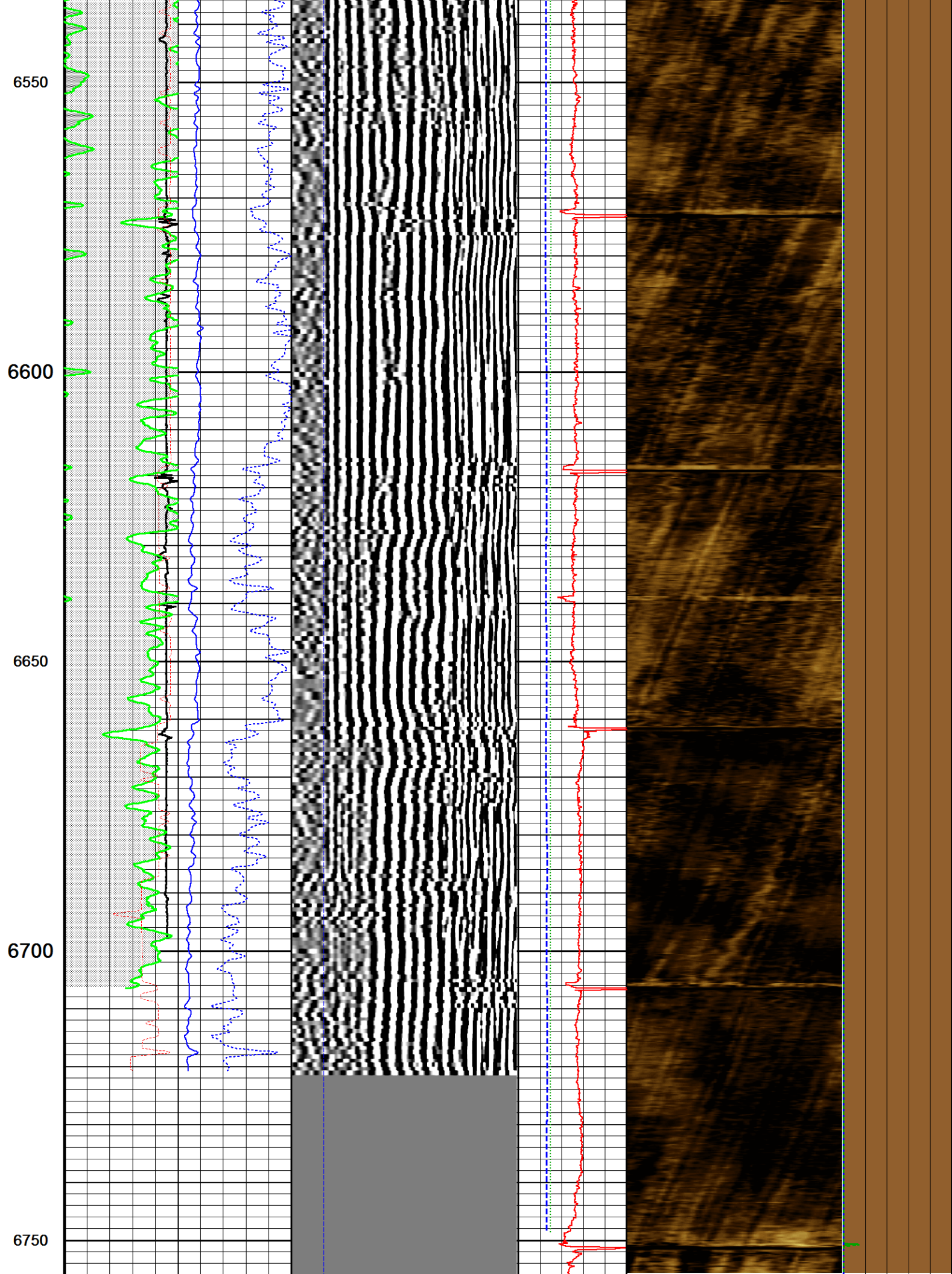
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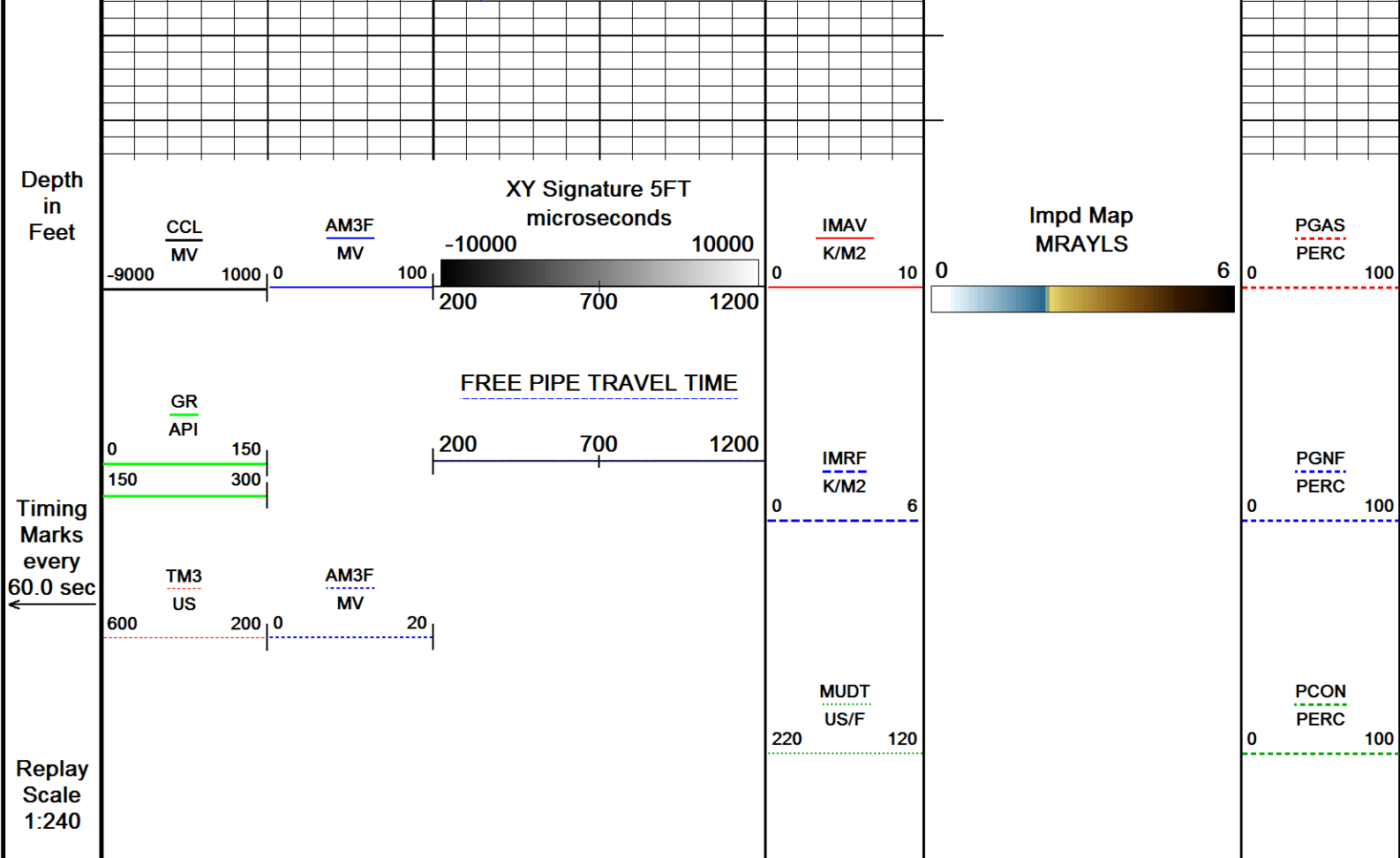






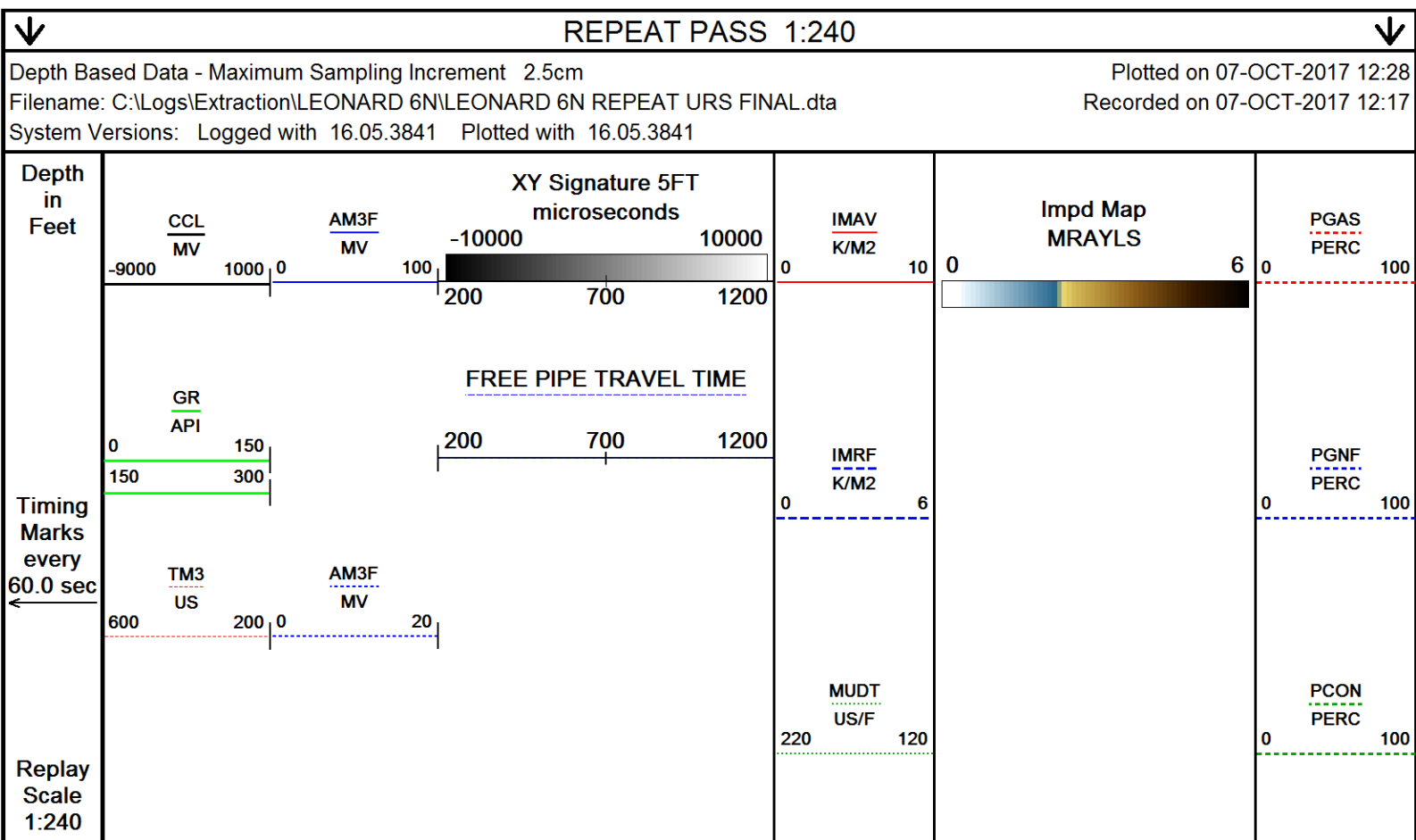


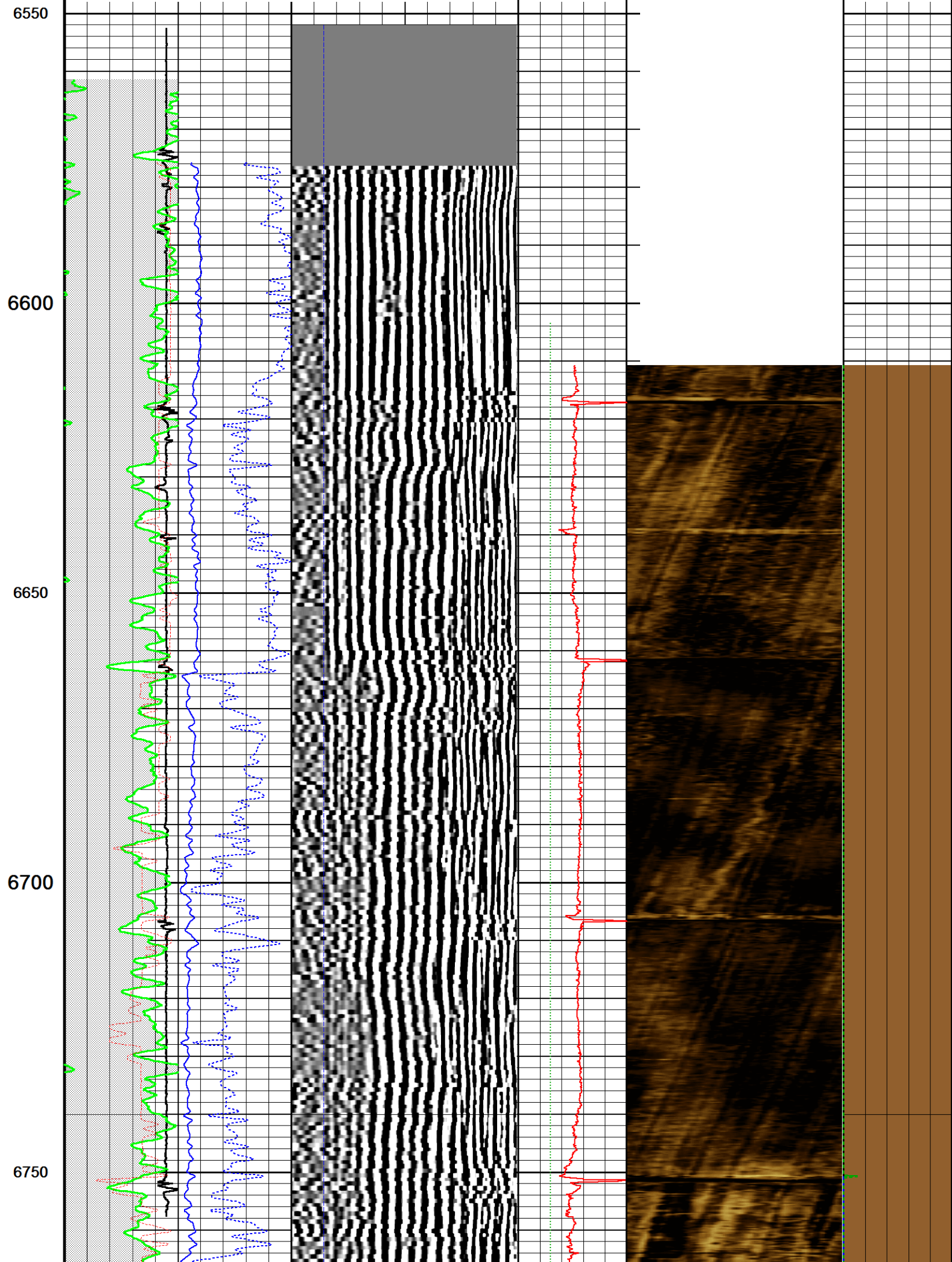


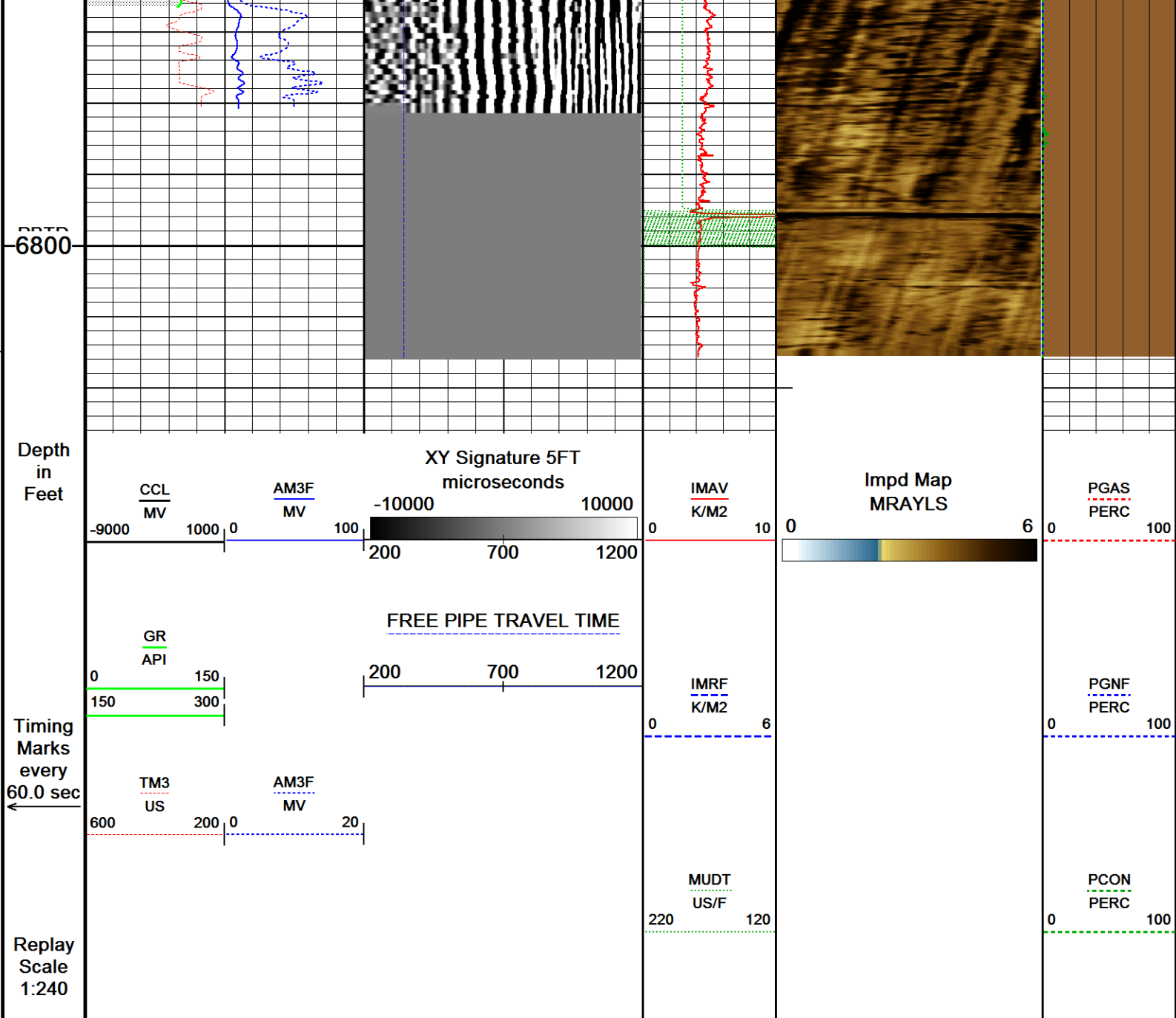


Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Logs\Extraction\LEONARD 6N\LEONARS 6N MAIN URS FINAL.dta
System Versions: Processed with 16.05.3841 Plotted with 16.05.3841
Plotted on 07-OCT-2017 12:28
Recorded on 07-OCT-2017 11:30

MAIN PASS 1:240







Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Logs\Extraction\LEONARD 6N\LEONARD 6N REPEAT URS FINAL.dta
System Versions: Logged with 16.05.3841 Plotted with 16.05.3841
Plotted on 07-OCT-2017 12:28
Recorded on 07-OCT-2017 12:17

↑ REPEAT PASS 1:240 ↑

SHOP AND FIELD CALIBRATIONS			
C:\Logs\Extraction\LEONARD 6N\LEONARS 6N 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 08:32

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	710.90
AMP 5 FT	100 % Bond	1.40	0.00
	Free Pipe	41.00	683.50

CBT Constants CBT-AA 109

Last Edited on 07-OCT-2017 11:55

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 07-OCT-2017 11:55

*** 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	3.80
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 6N\LEONARS 6N 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



58.58 ft CCL - Collar Locator

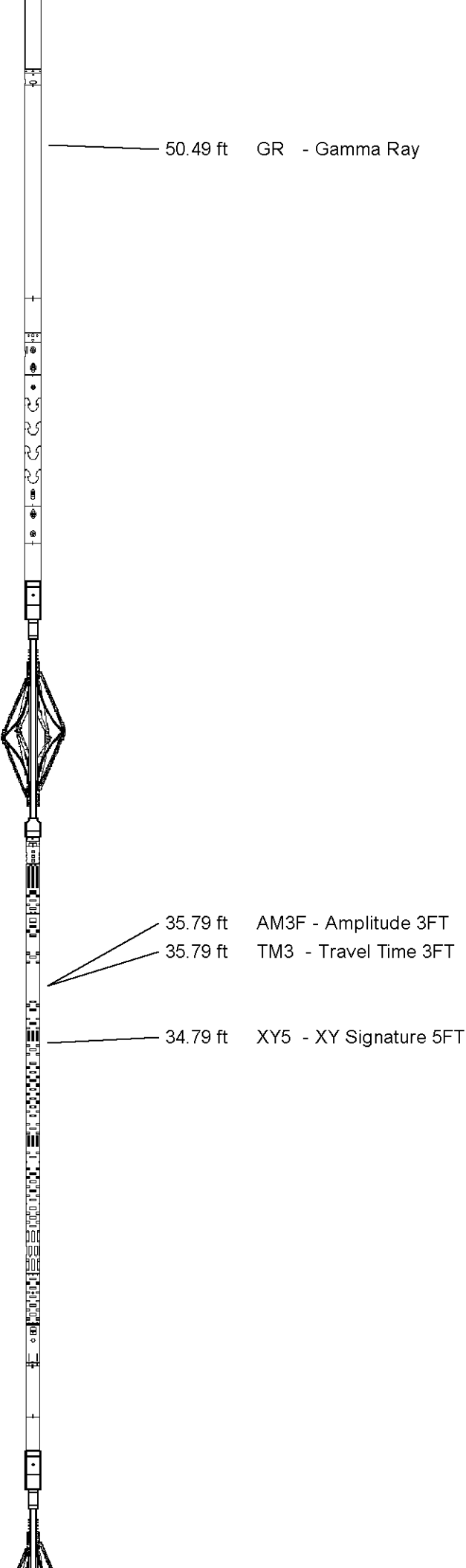
Gamma Ray
UGR-JD 118 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

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

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

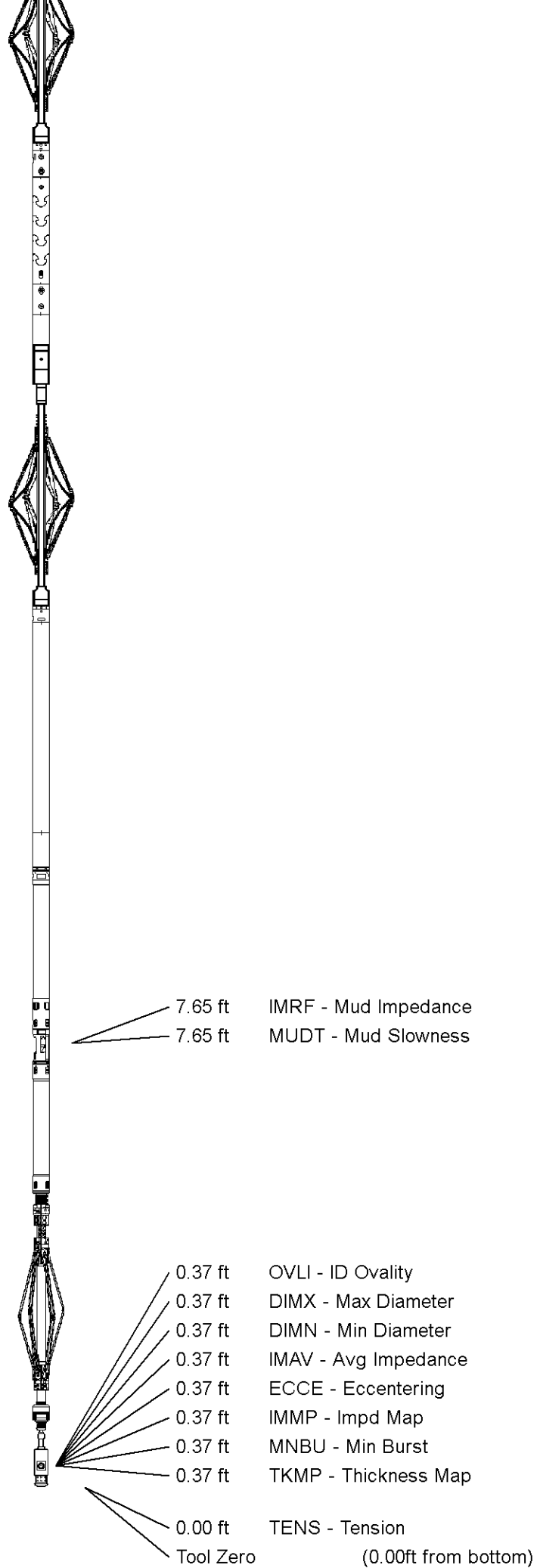
55 pin Roller Centralizer
CEN-XA 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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



COMPANY	EXTRACTION OIL & GAS
WELL	LEONARD 6N
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	12184.00	feet
Elevation Ground Level	5004	feet	Depth Logger	6800.00	feet



SECUREVIEW
ULTRAVIEW/BONDVIEW
CEMENT ANALYSIS

Weatherford[®]