



**Weatherford**

**SECUREVIEW  
ULTRAVIEW / BONDVIEW  
CEMENT ANALYSIS LOG**

**COMPANY** EXTRACTION OIL AND GAS  
**WELL** JOHNSONS CORNER 13-N  
**FIELD**

**PROVINCE/COUNTY** WELD COUNTY  
**COUNTRY/STATE** UNITED STATES / COLORADO  
**LOCATION** SWNE SEC 35 T05N R68W

**SEC 35** TWP 05 RGE 68  
**Other Services**

**Latitude**  
**Longitude**  
**API Number** 05-069-06464  
**Permanent Datum GL, Elevation** feet  
**Log Measured From** KB  
**Drilling Measured From** KB  
**Elevations:** KB, DF, GL

Date	Run Number	PERFORATION RECORD			
		Shot	Number of Shots	Depth From	Depth To
15-AUG-2017	ONE				
	Service Order 7145-190002346	Density			
	Type Log URS / CBT				
	Depth Driller				
	Depth Logger 6230.00				
	Top Log Interval 0.00				
	Bottom Log Interval 6230.00				
	Hole Fluid Type WATER BASED				
	Hole Fluid Level 172.00				
	Restriction ID 4.653	Gun Type			
	Max Recorded Temp 190.00	Gun Size			
	Well Head Pressure 0.00	CASING / TUBING RECORD			
	Well Head Equipment NONE	Size	Weight	Depth From	Depth To
	Time Well Ready ON ARRIVAL	inches	pounds/ft	feet	feet
	Time Logger Bottom 9:00	5.500	20.00	0.00	17000.00
	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	17000.00	20.00

**REMARKS**

SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO RIG KB @ 28 FT ABOVE GROUND LEVEL

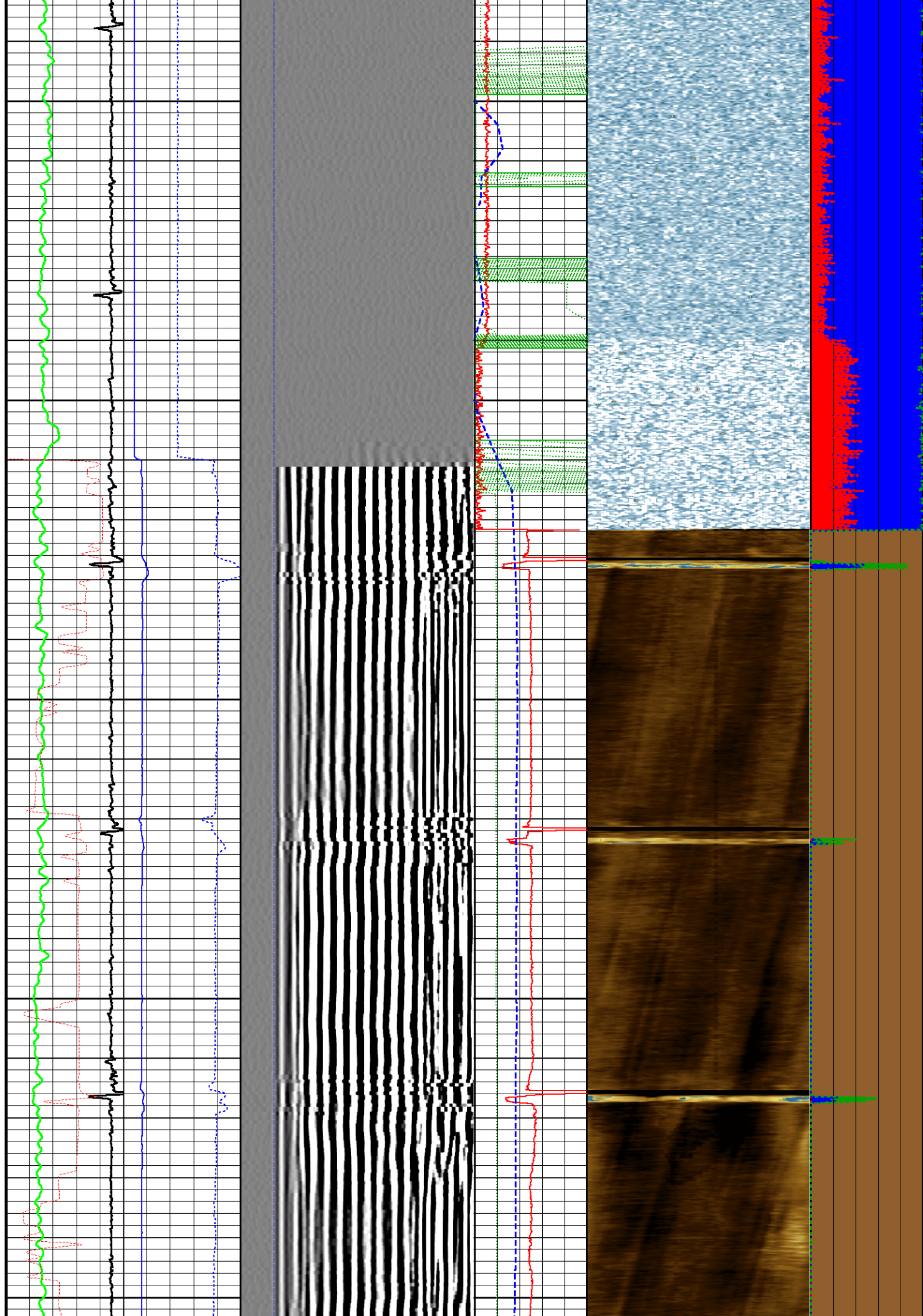
TOOL EXPERIENCED SEVERAL AREAS OF DECENTRALIZATION THROUGHOUT THE LOG CAUSING THE ULTRASONIC VALUES TO BE AFFECTED. THESE VALUES SHOULD BE CONSIDERED INVALID OVER THESE AREAS

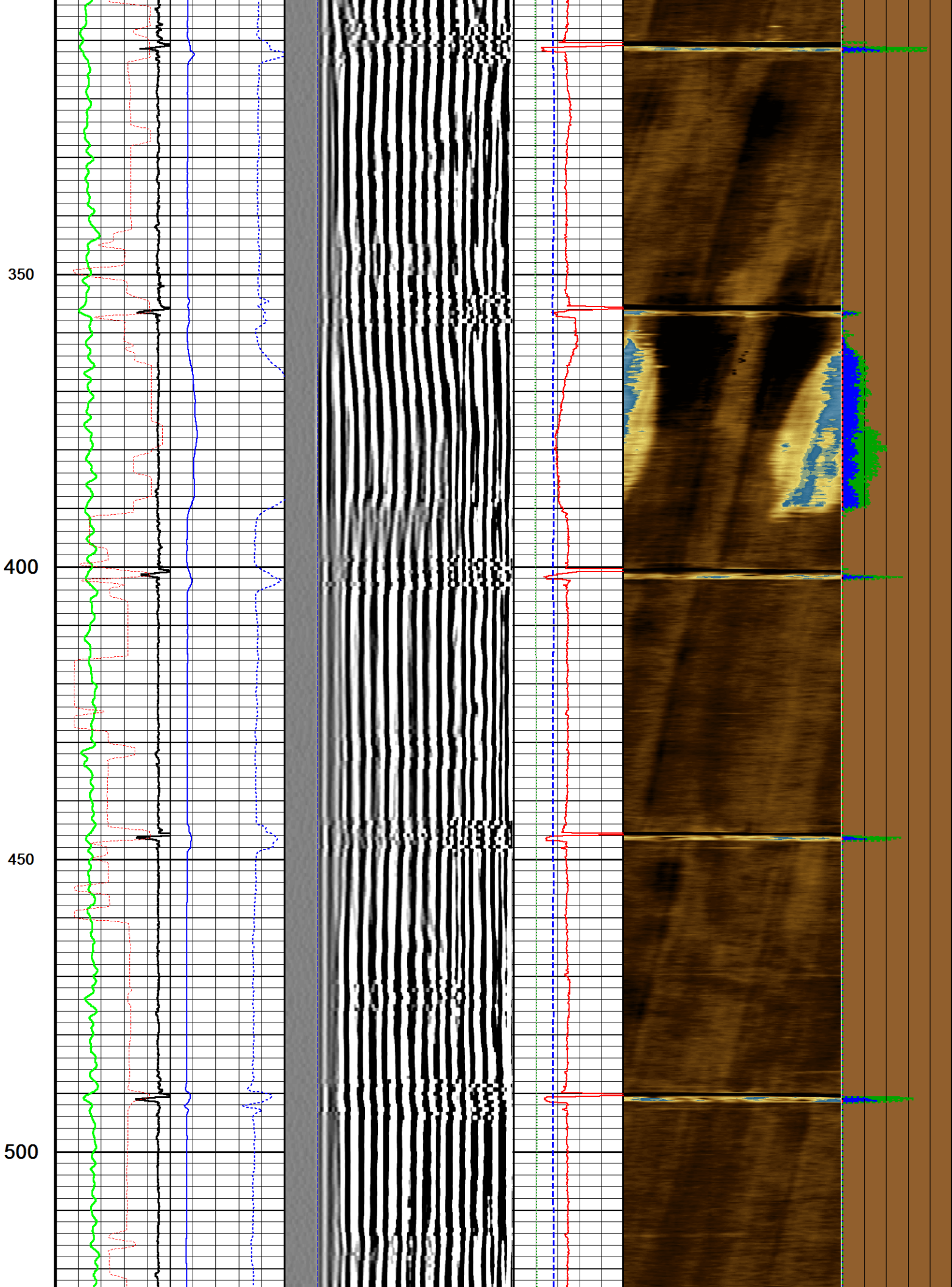
100% STANDARD FREE PIPE AMPLITUDE IN 5.5 INCH CASING IS 72 mV

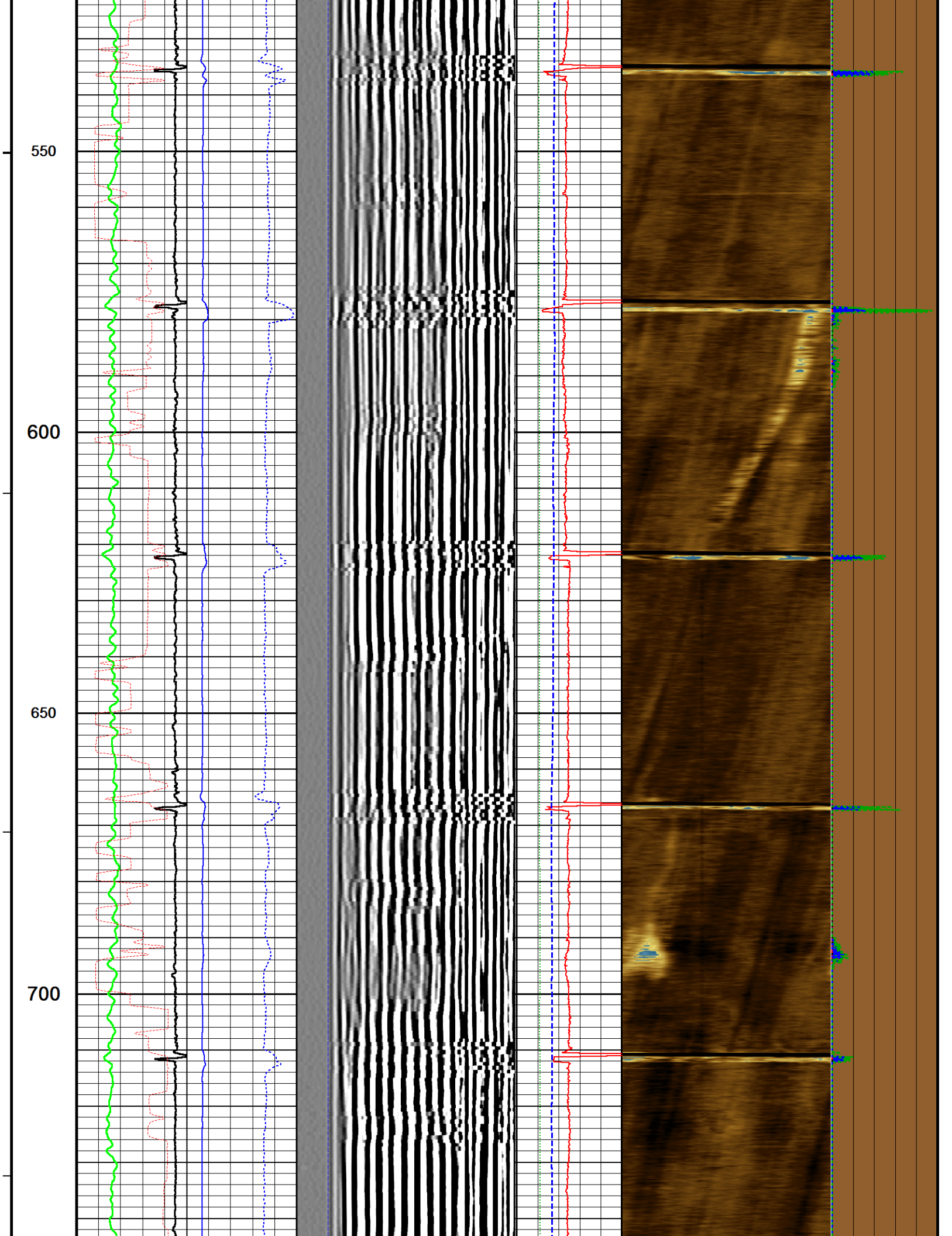
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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



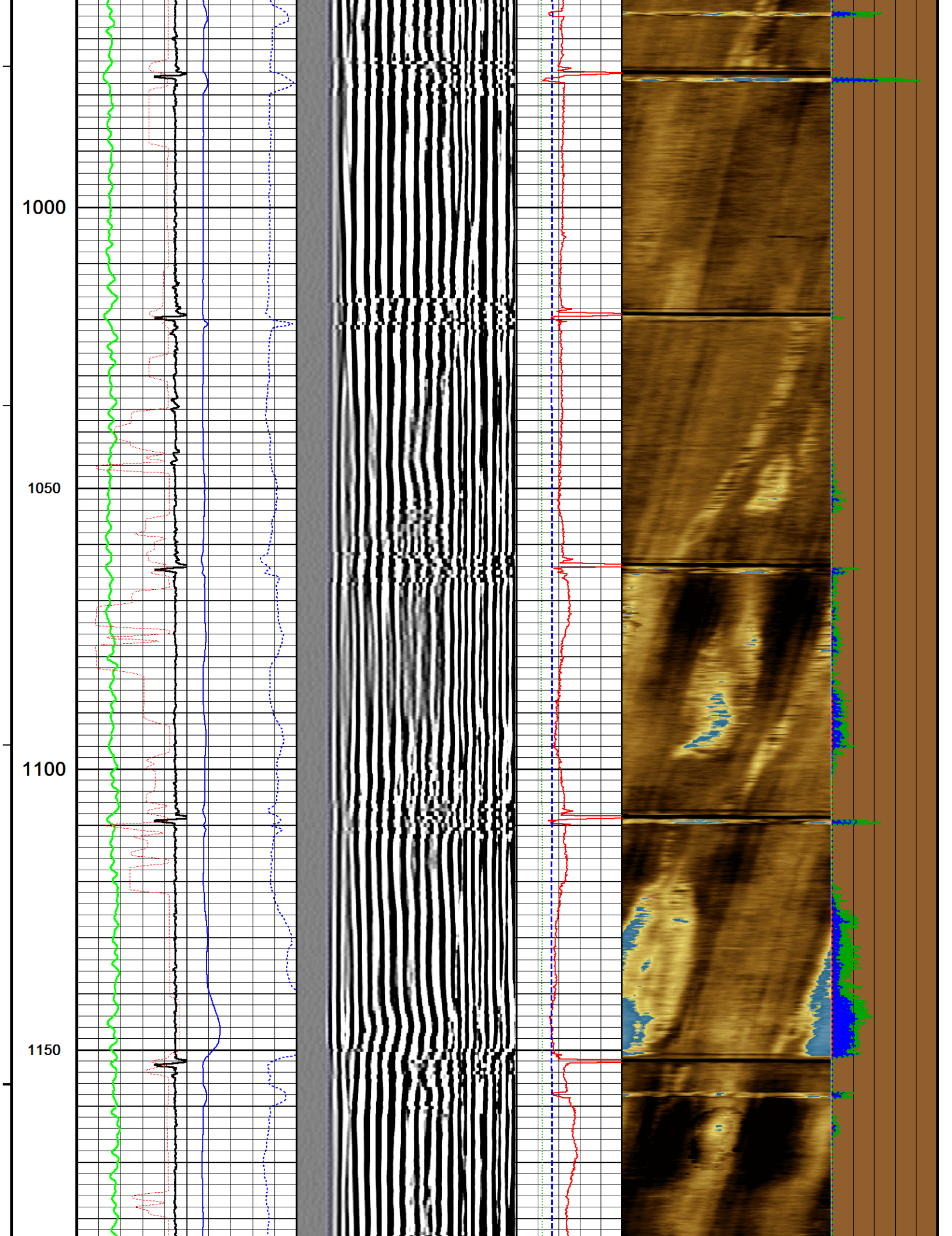
100  
150  
200  
250  
300

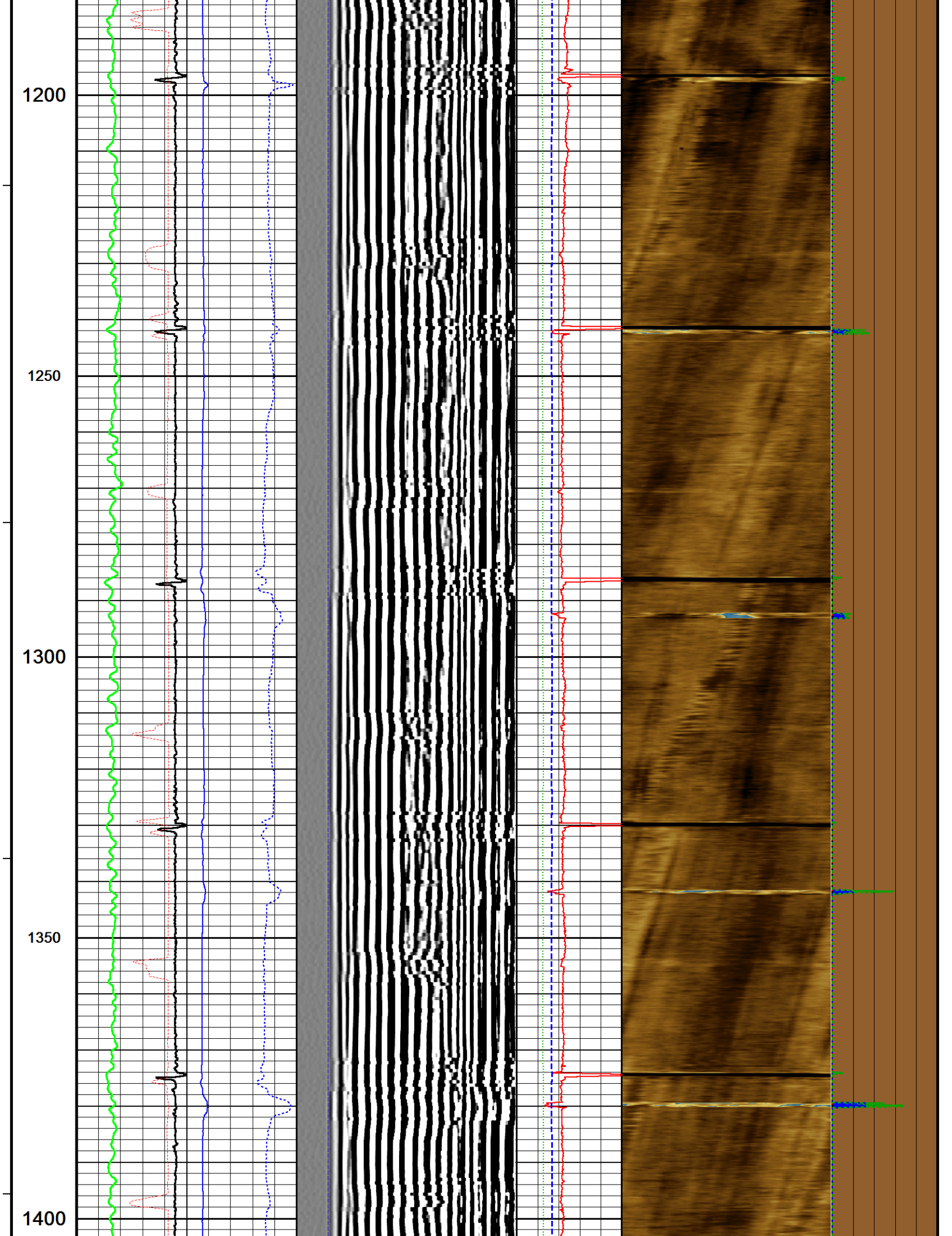


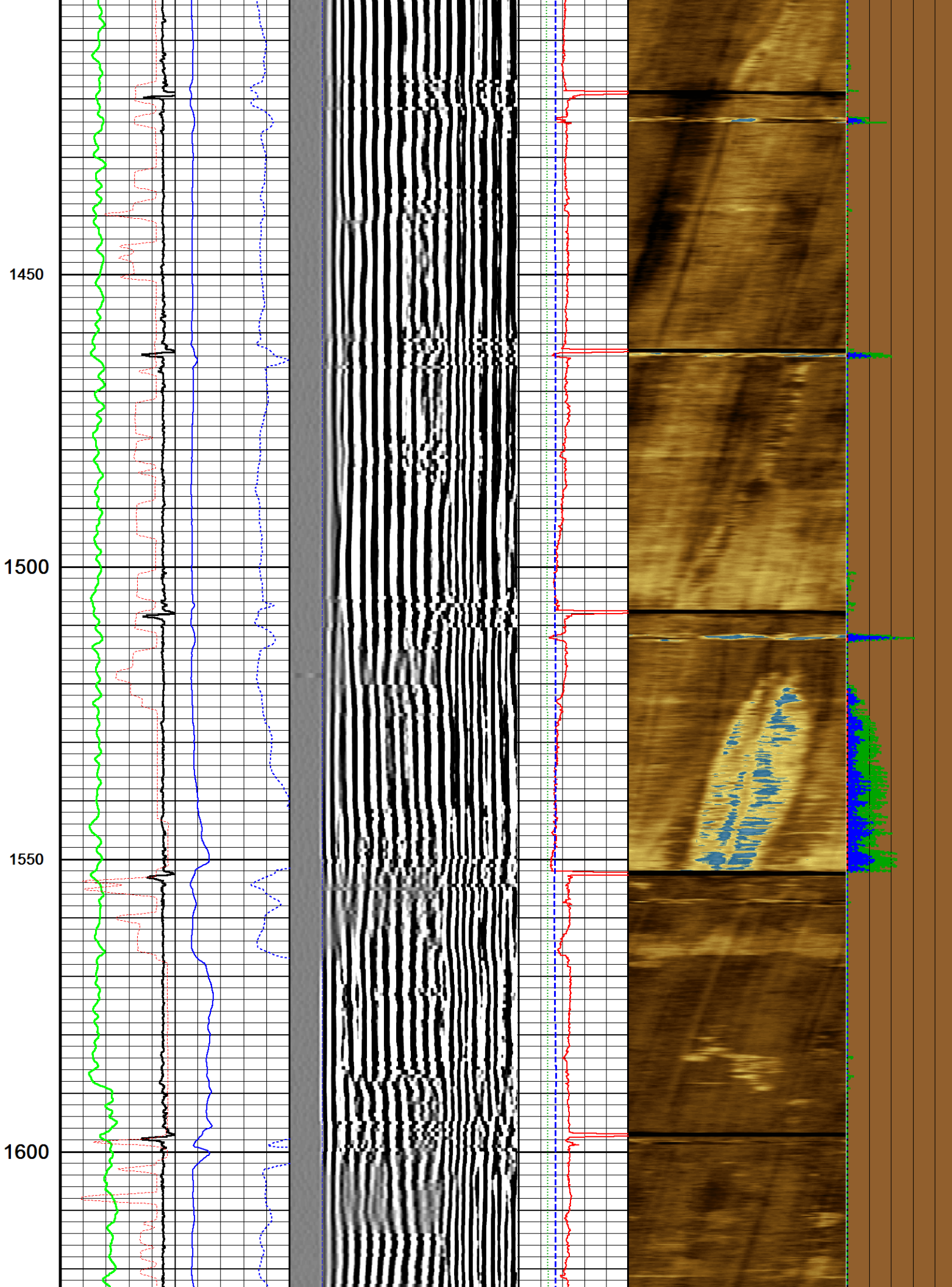










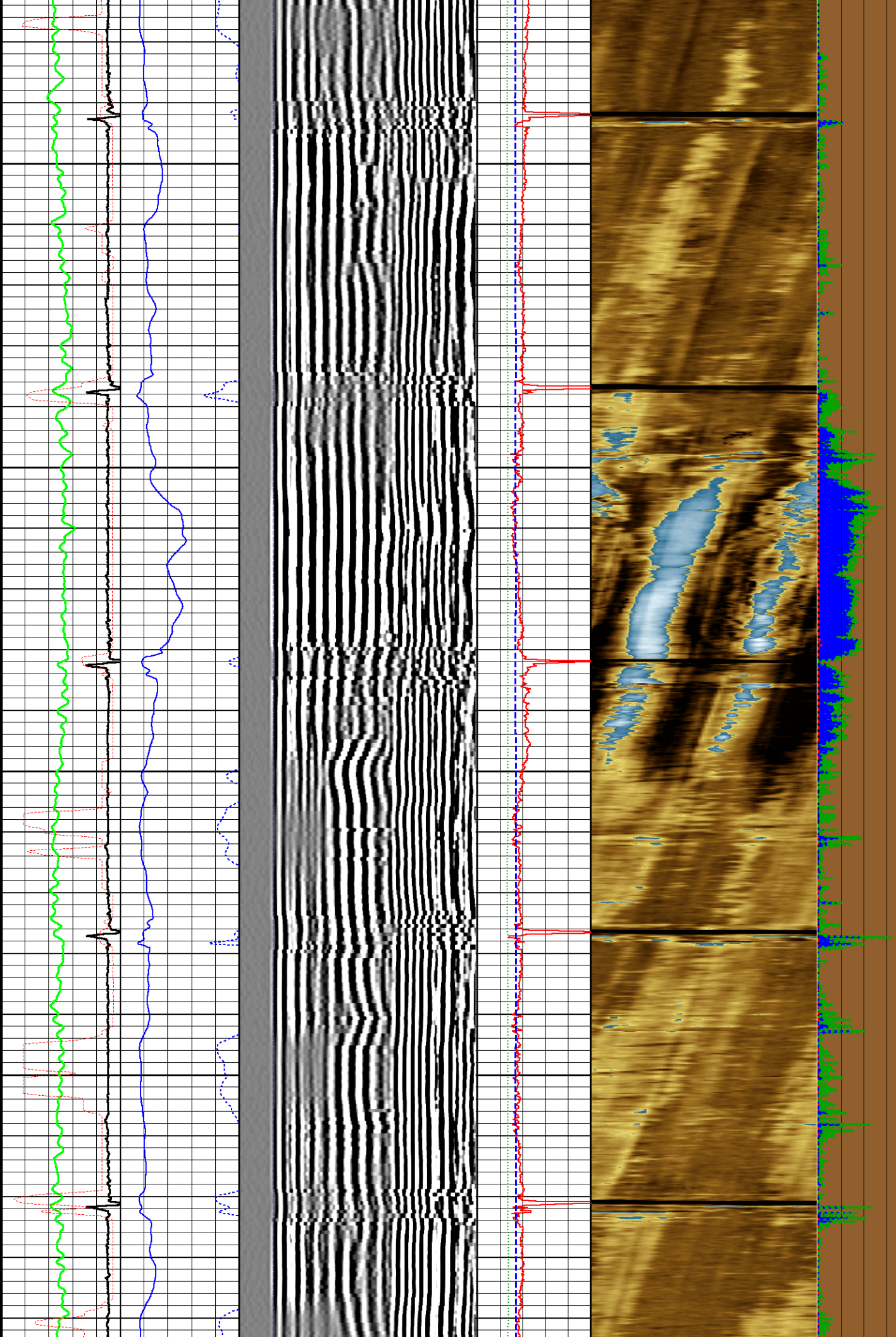


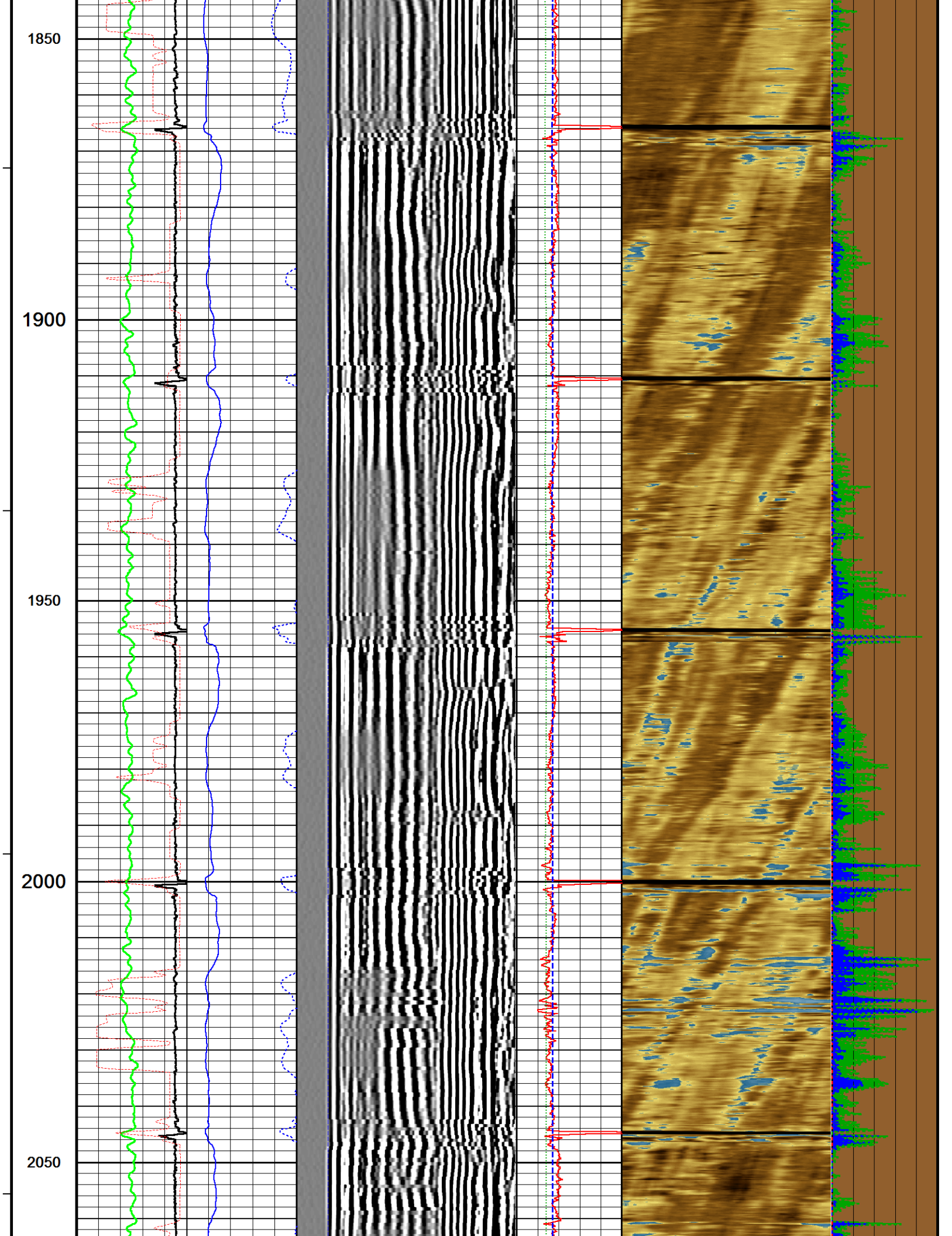
1650

1700

1750

1800



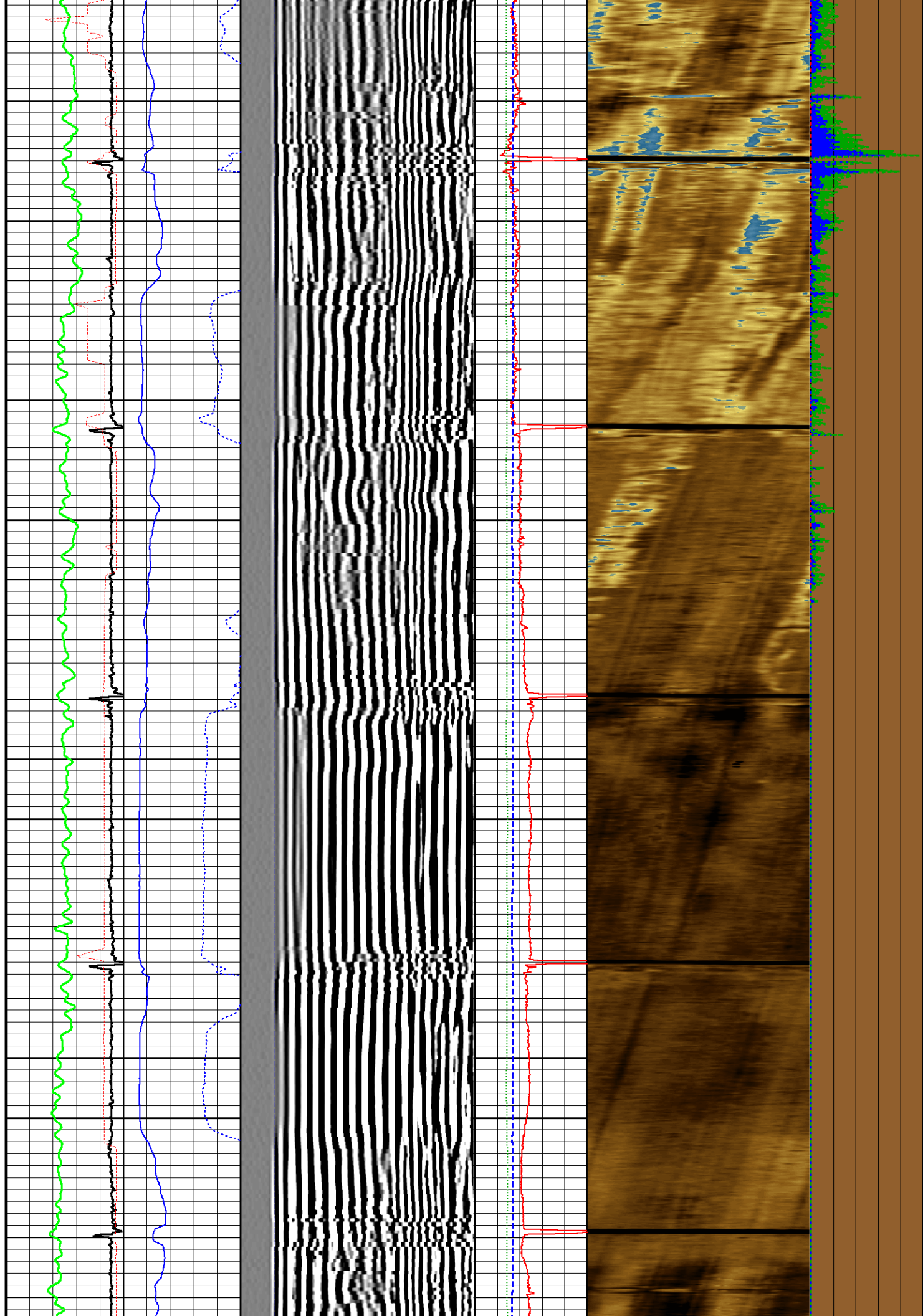


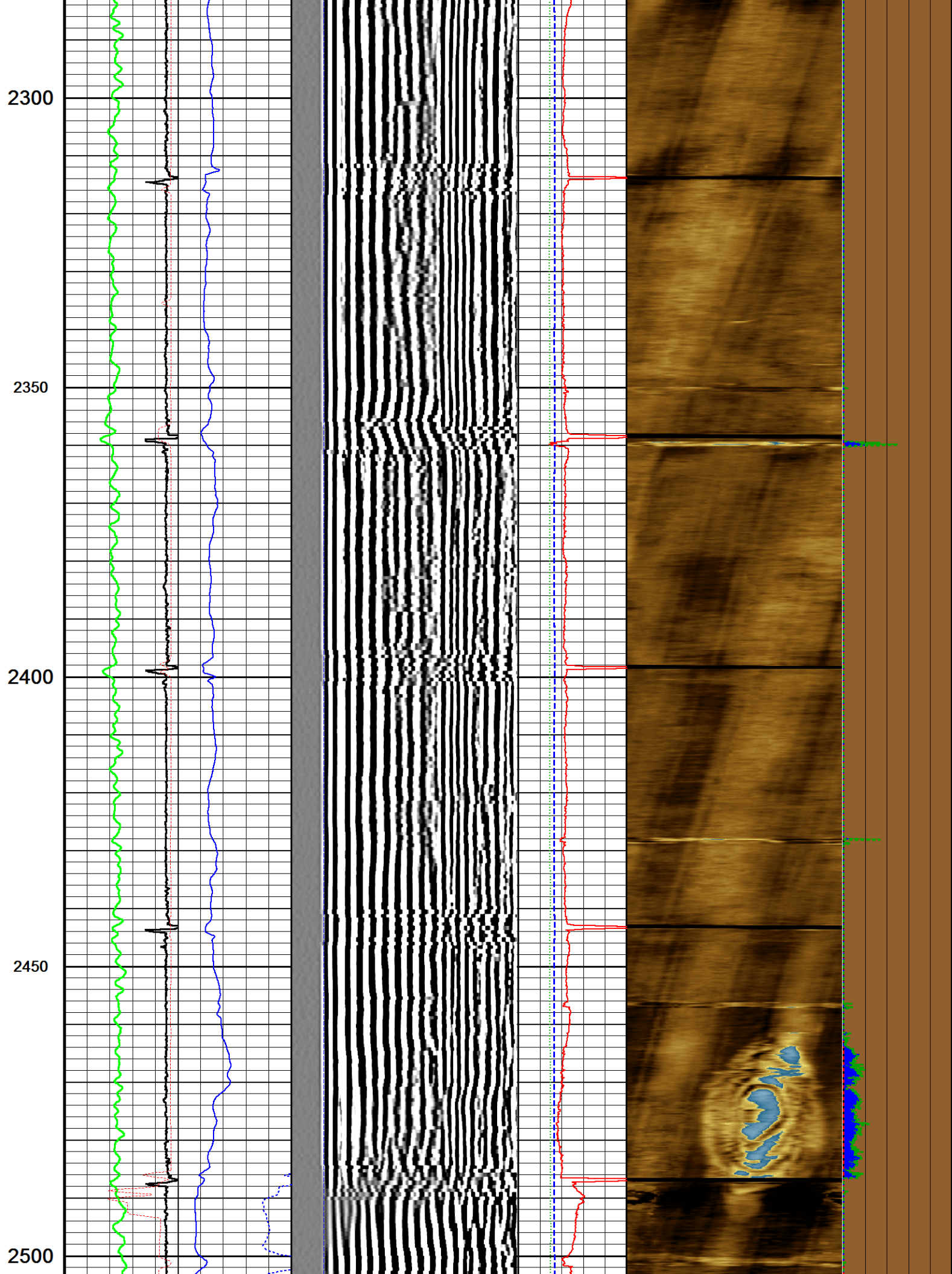
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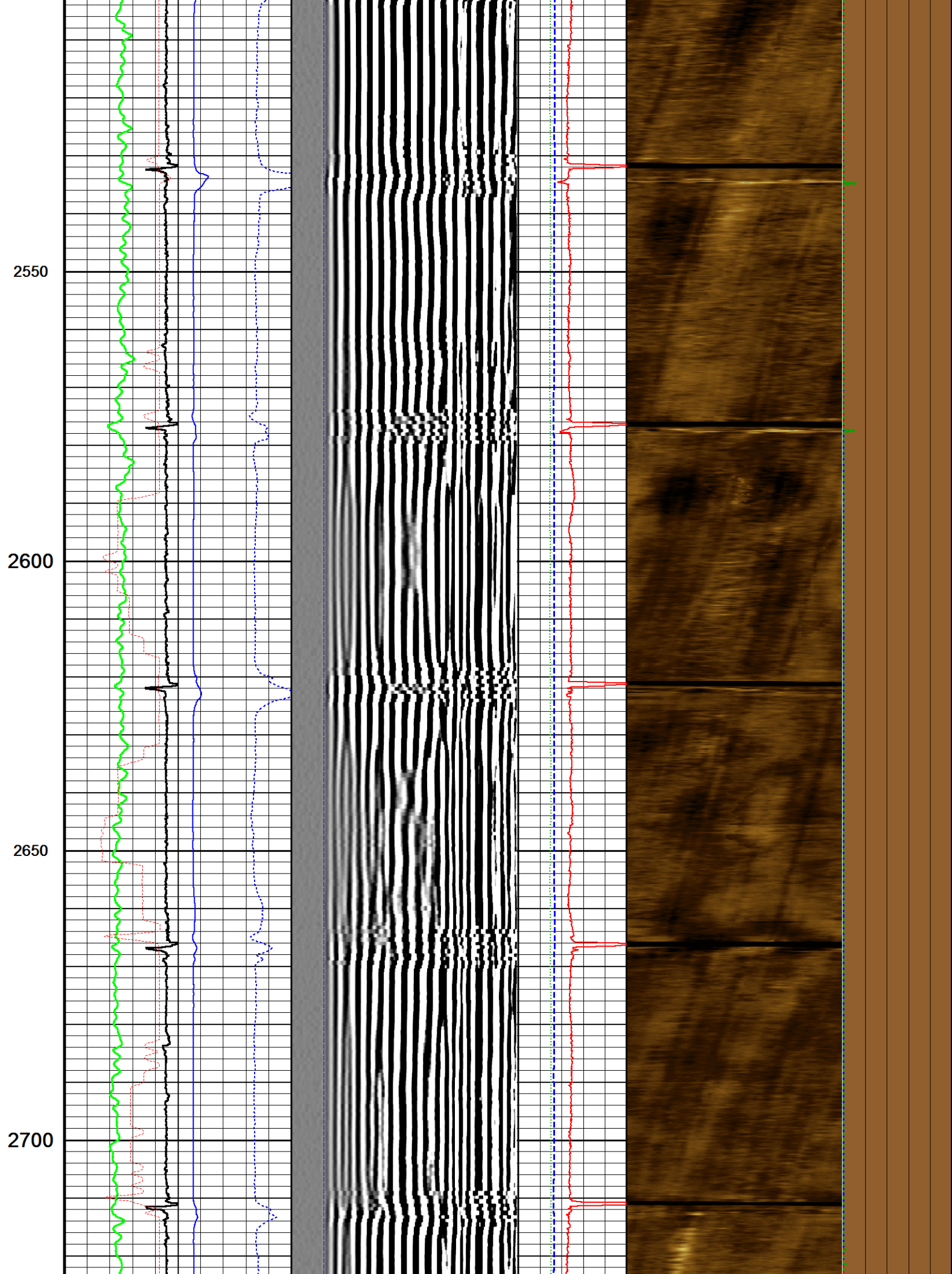
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2200

2250





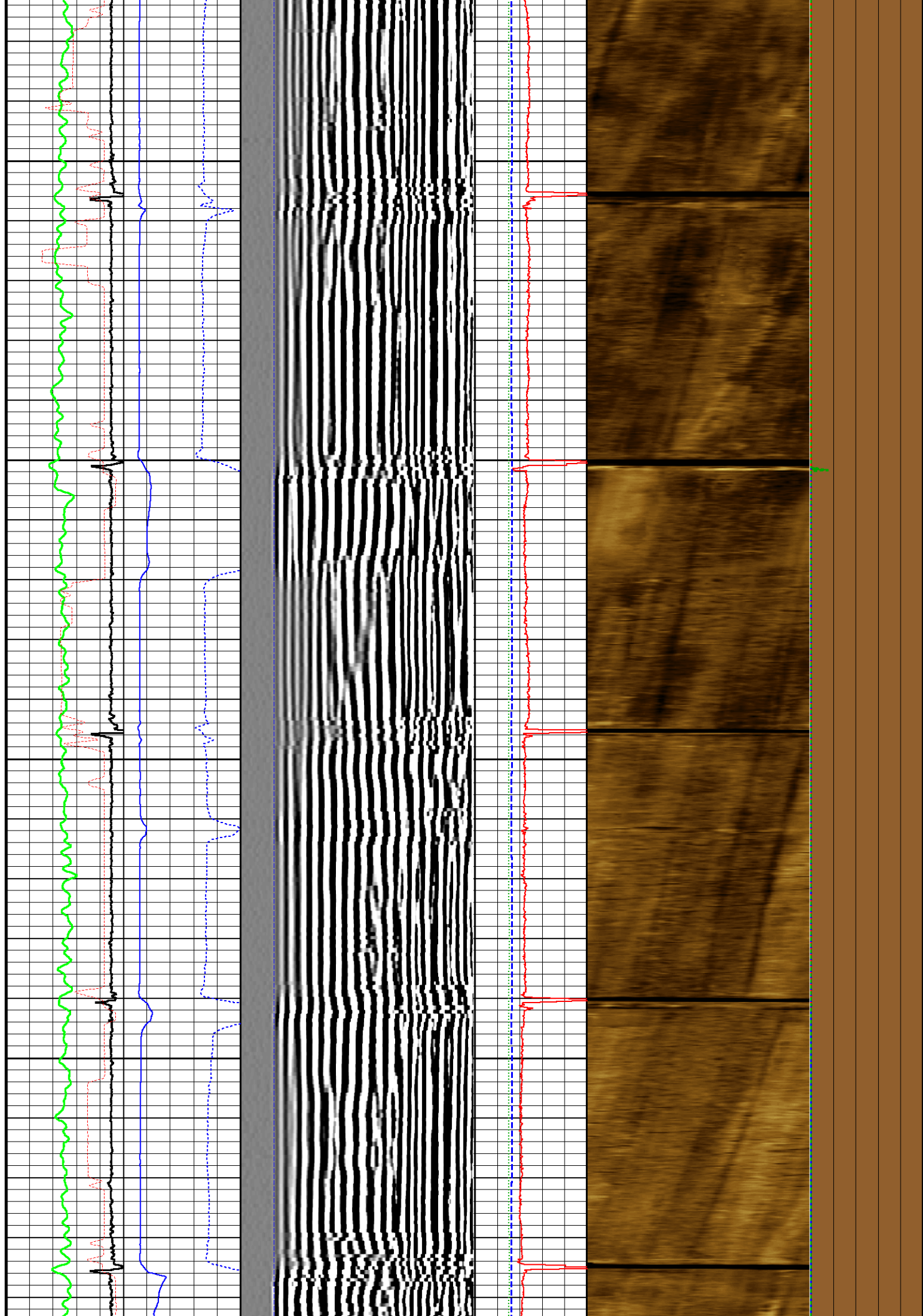


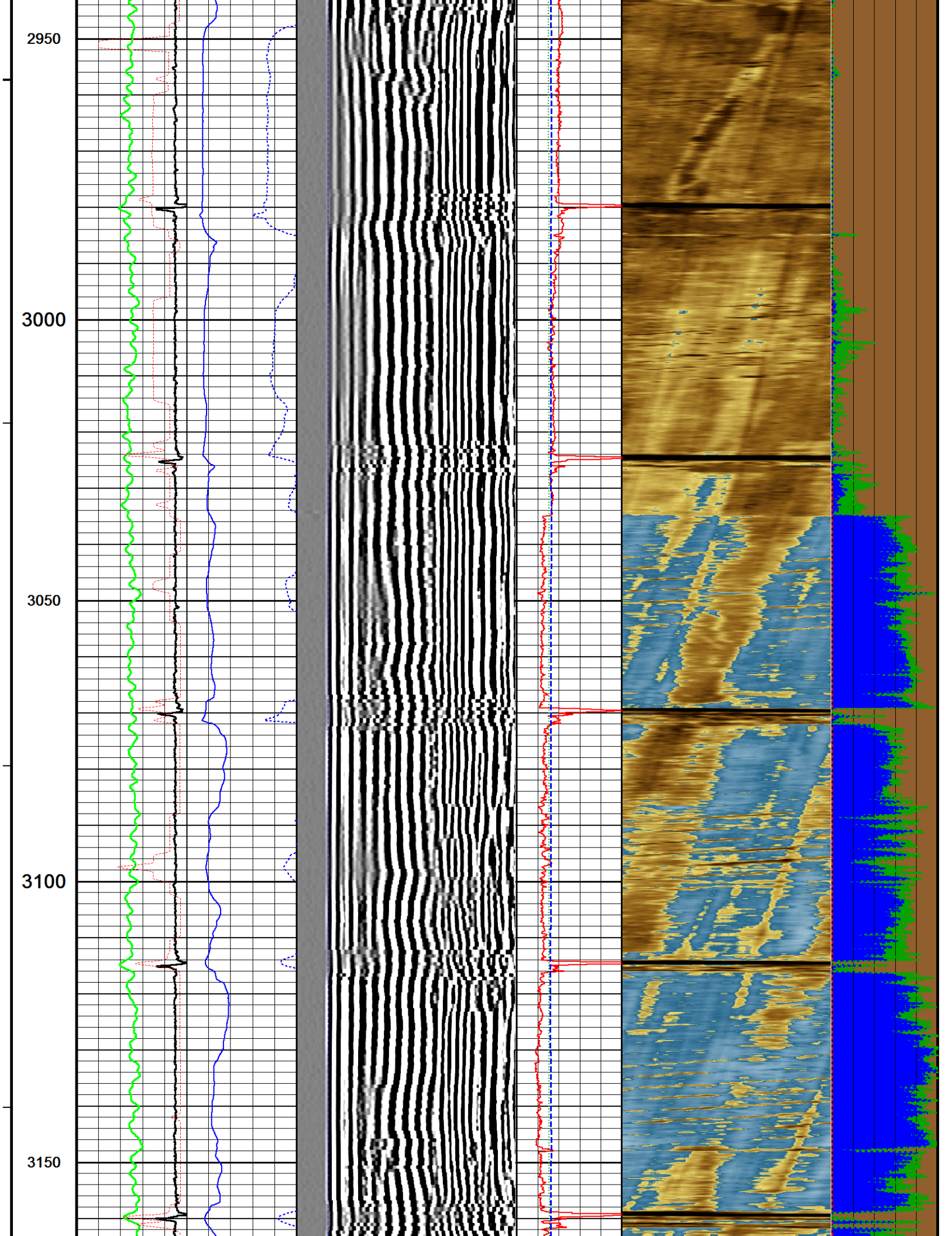
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2800

2850

2900



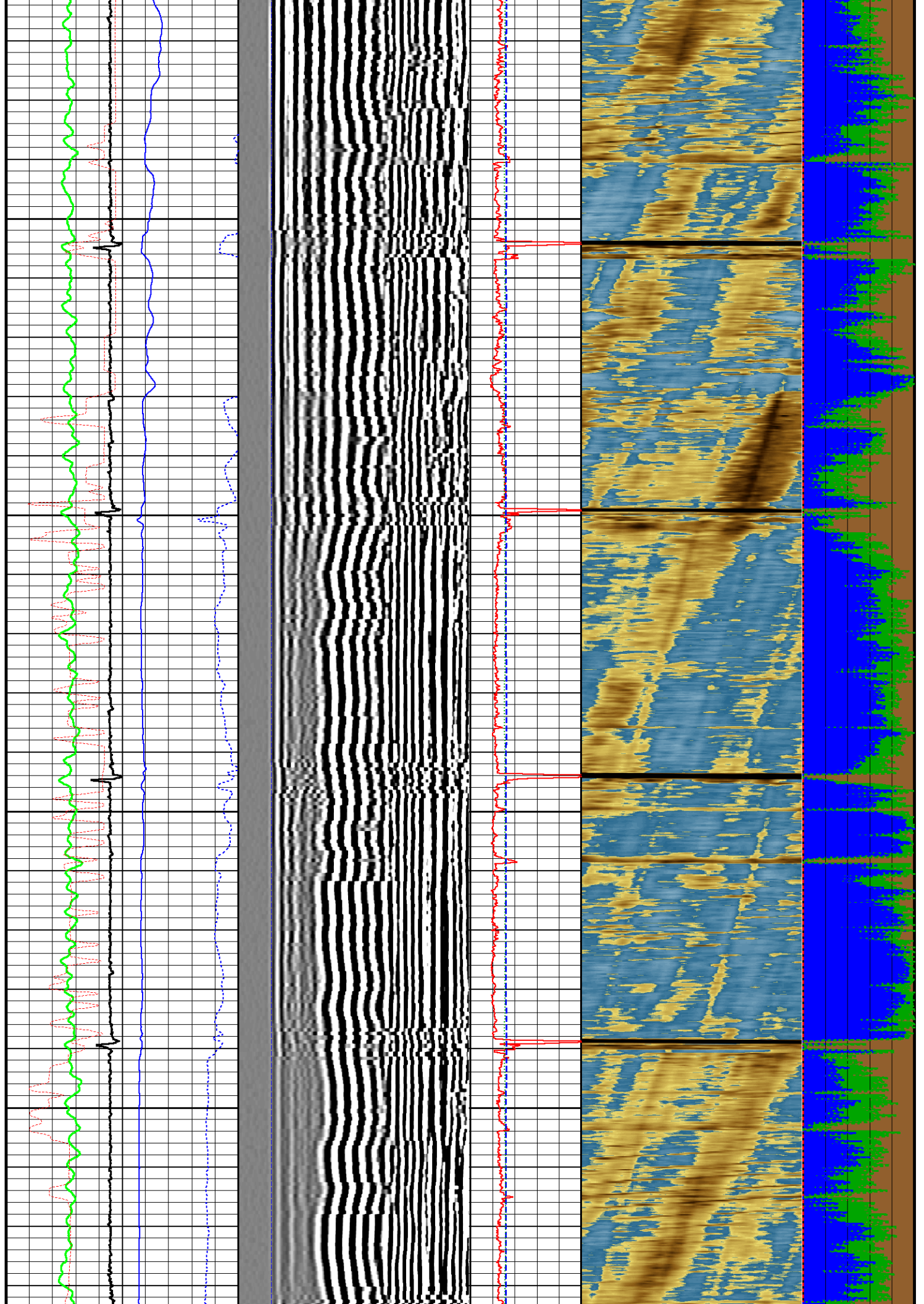


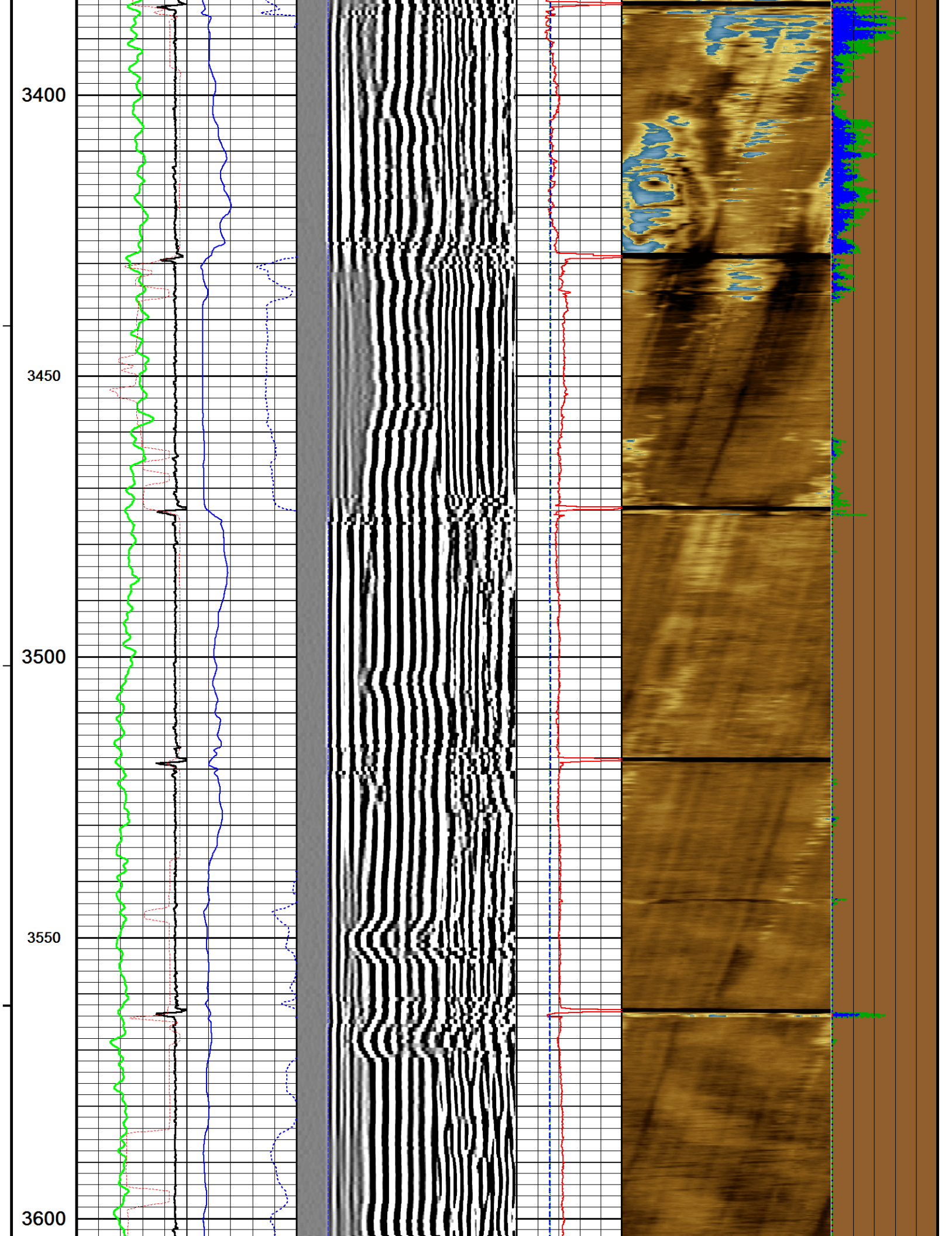
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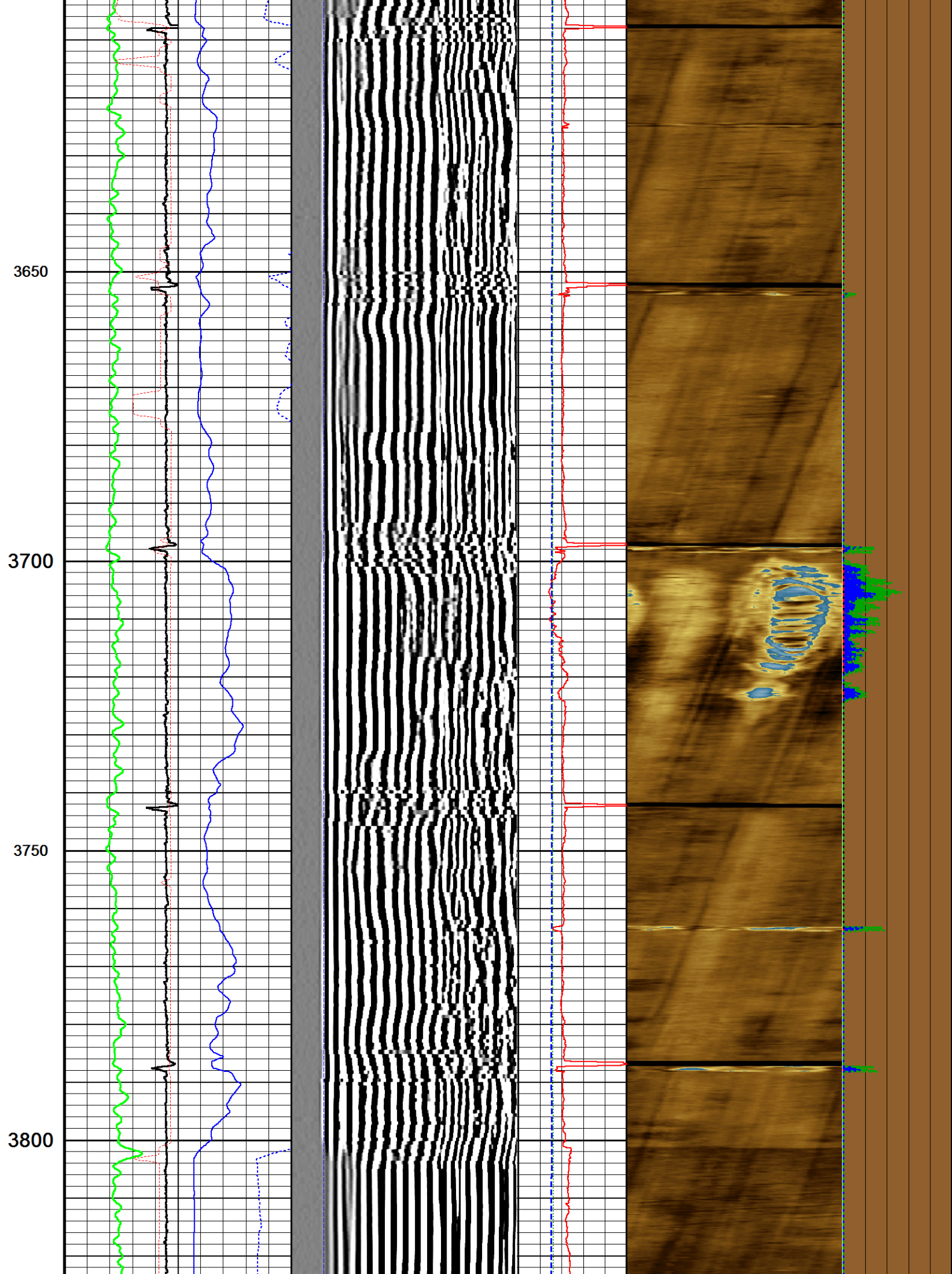
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3300

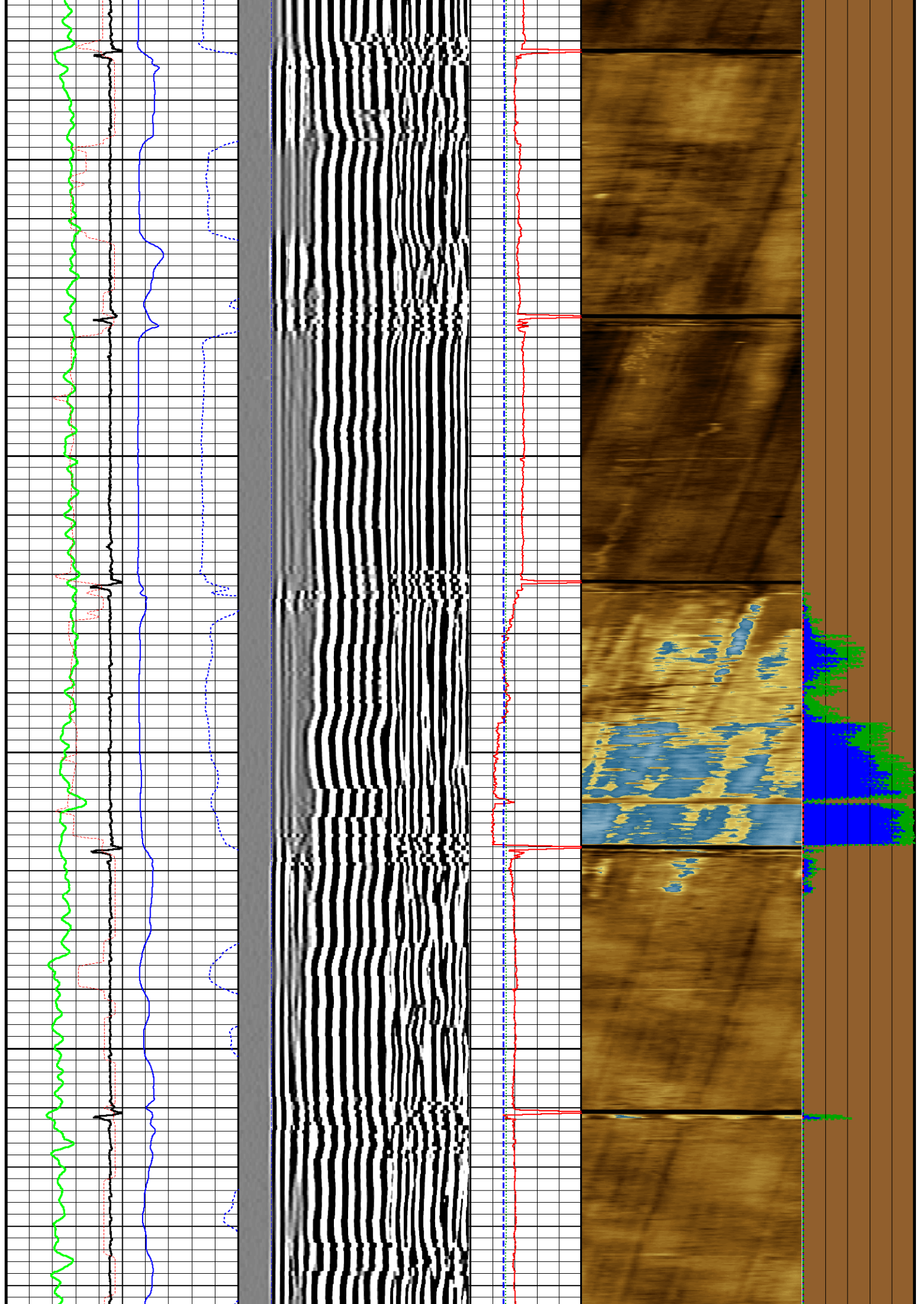
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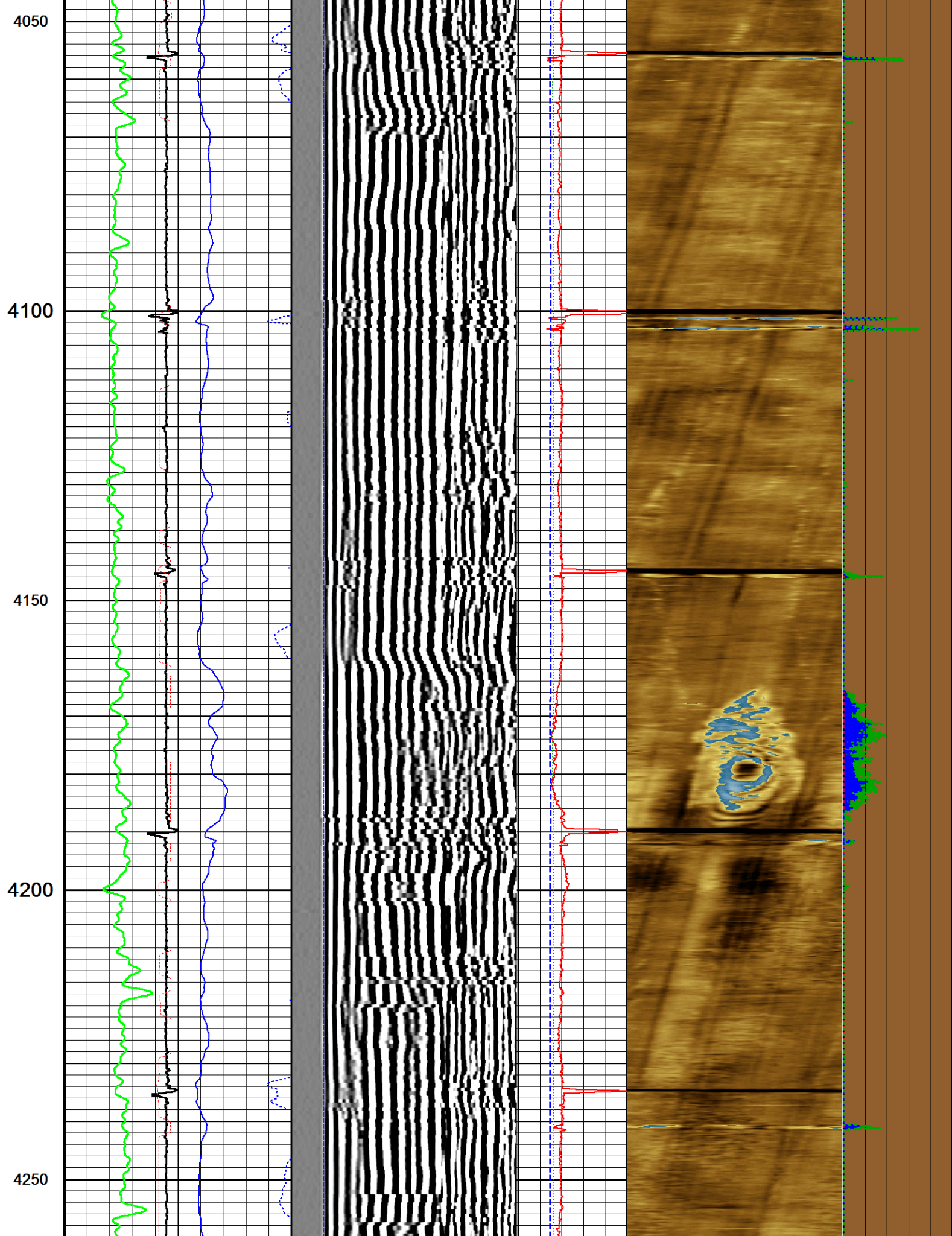






3850  
3900  
3950  
4000



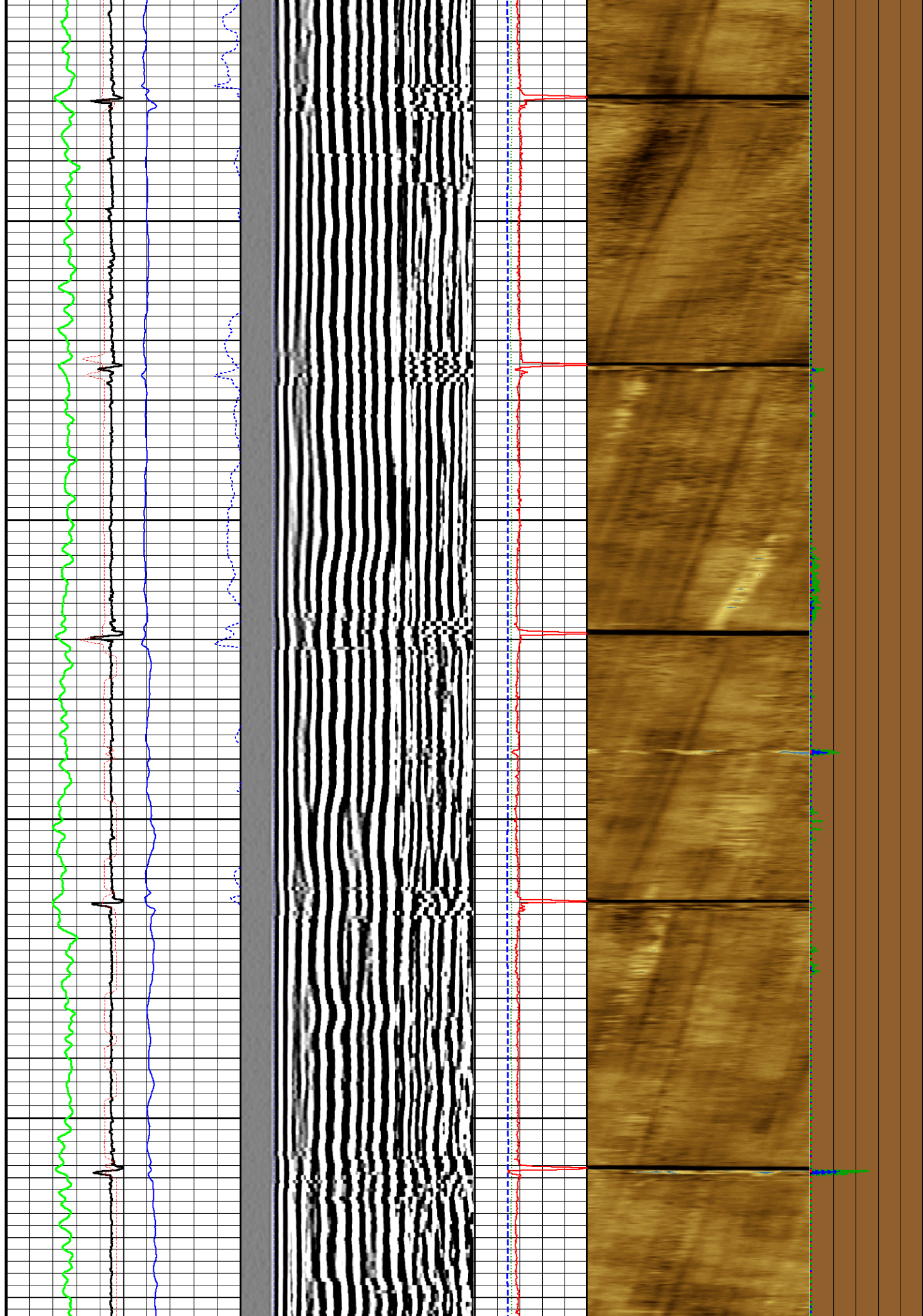


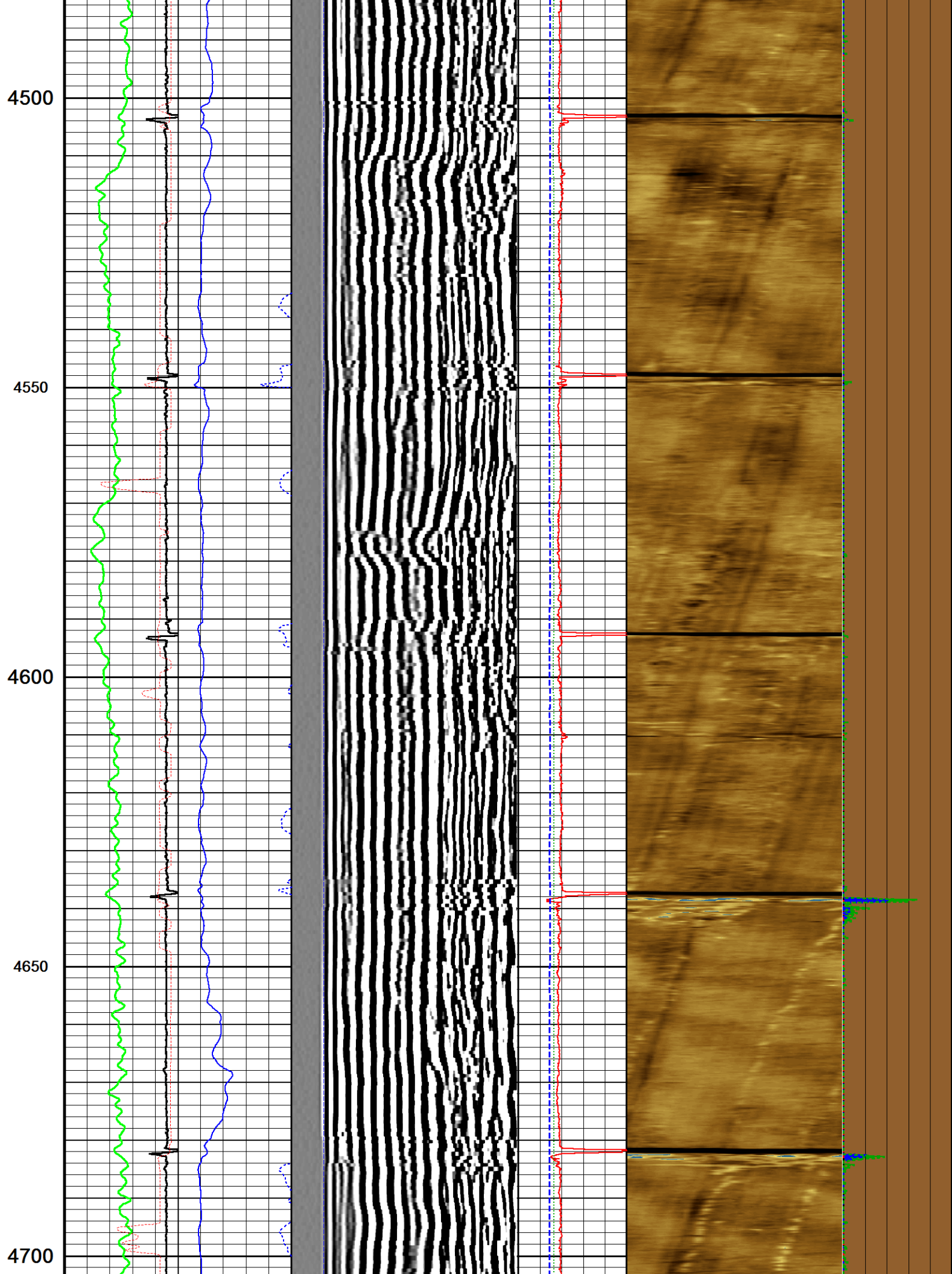
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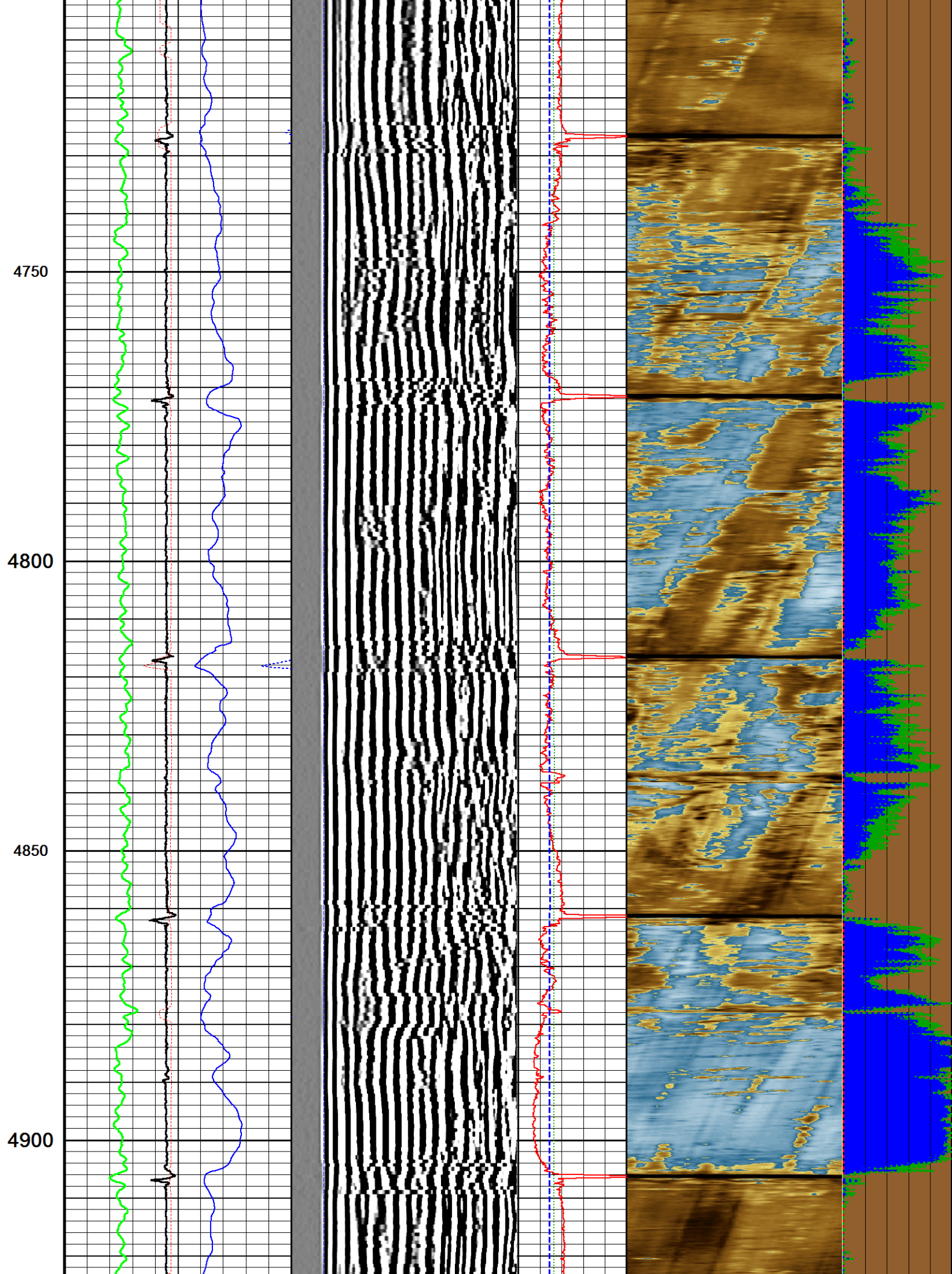
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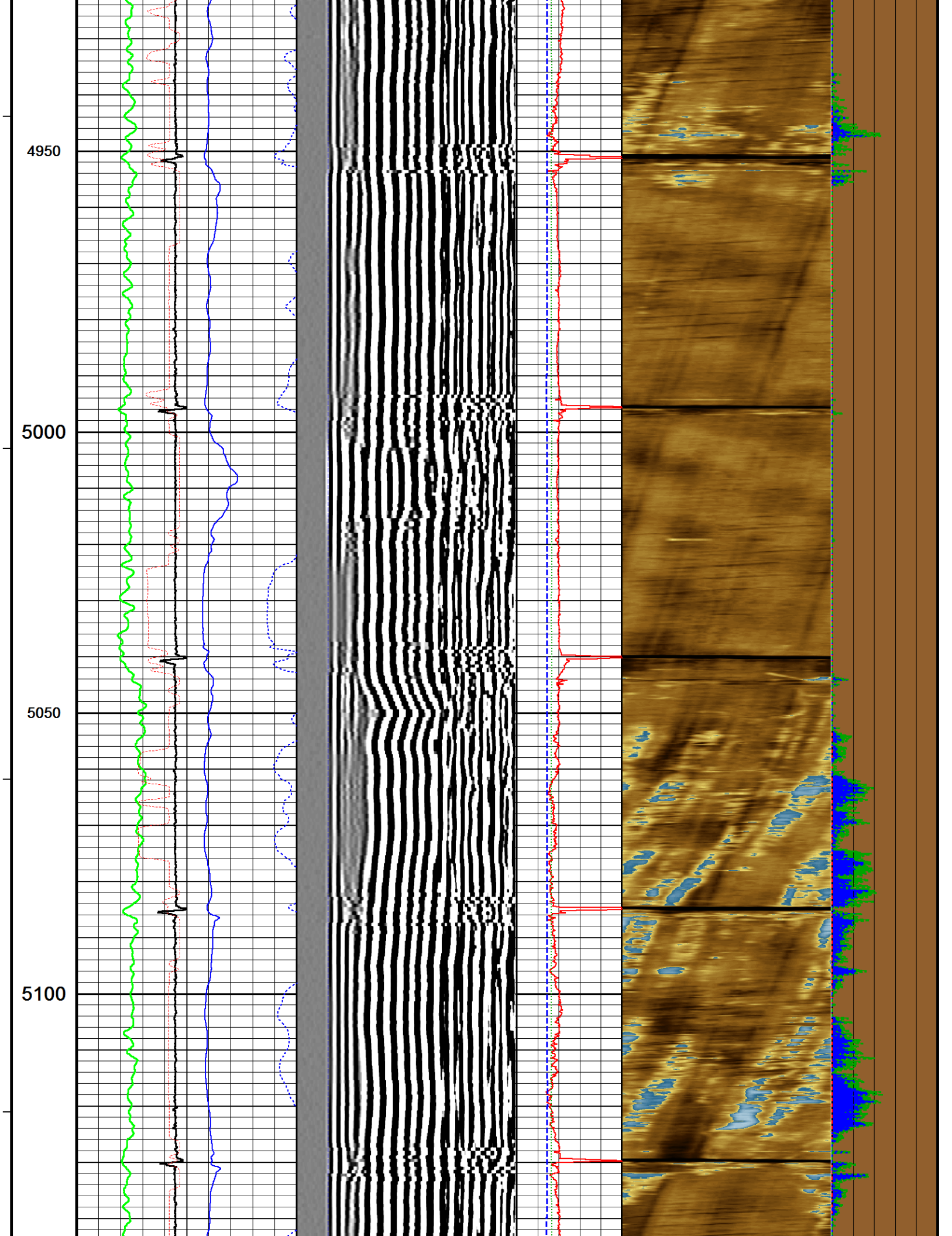
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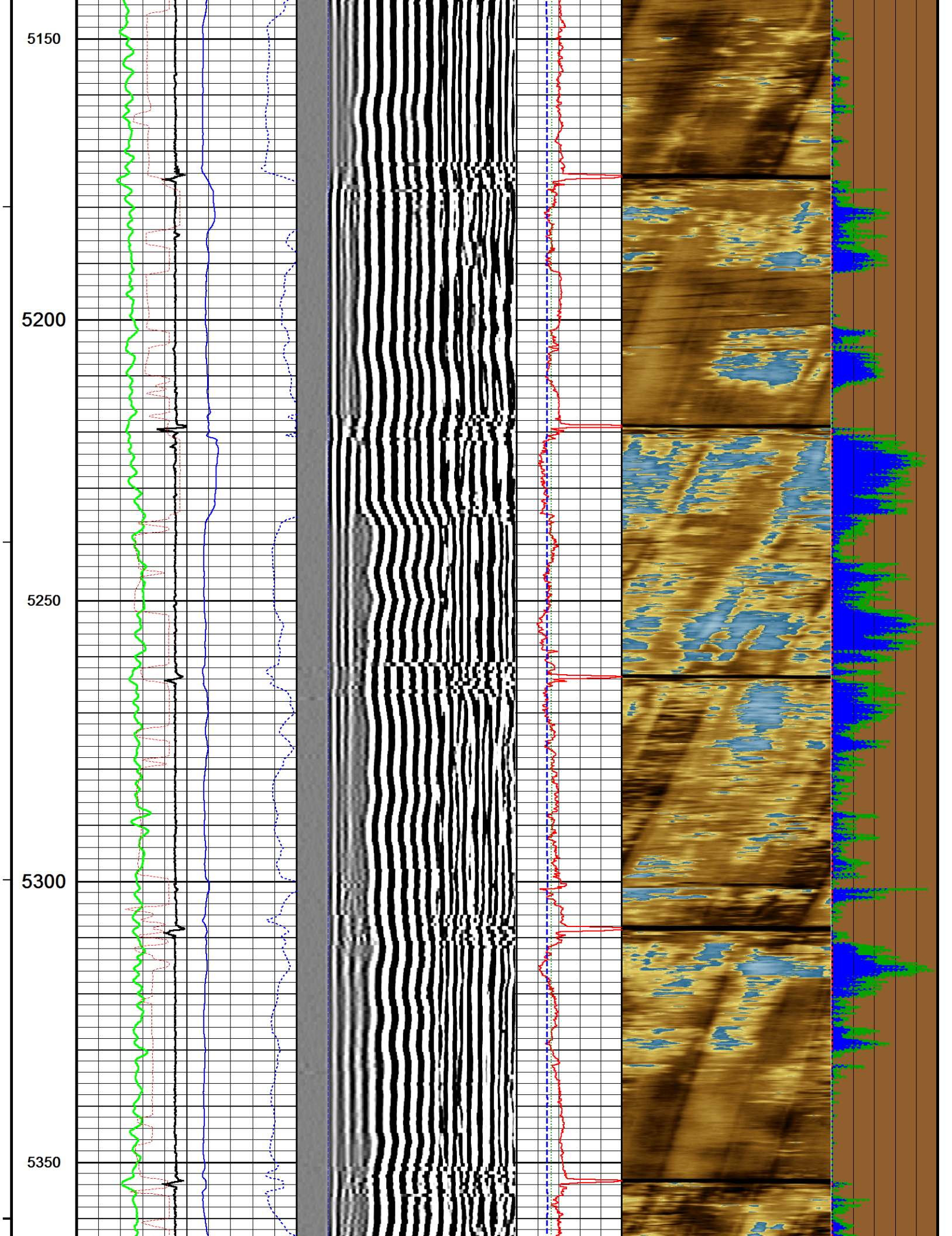
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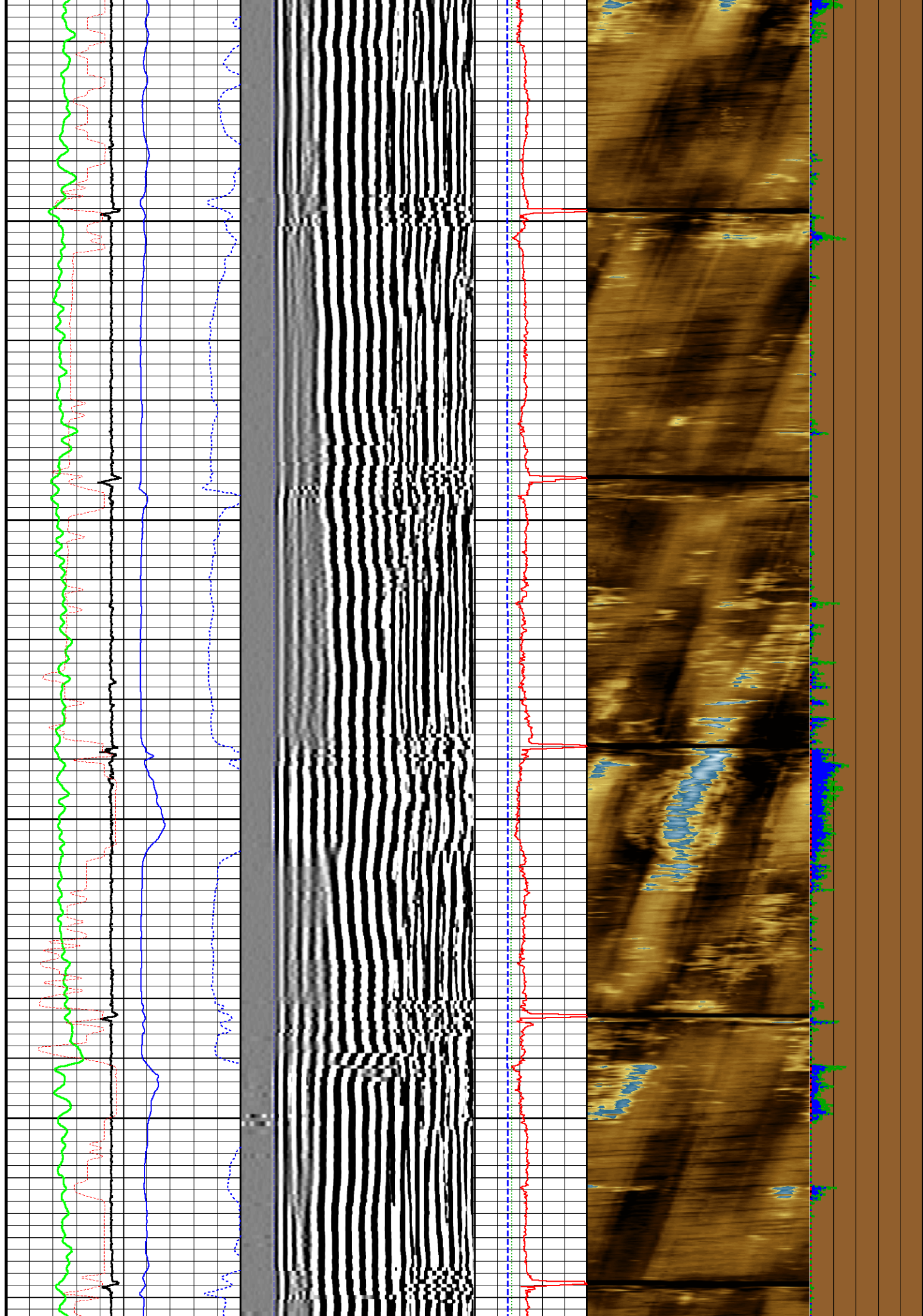


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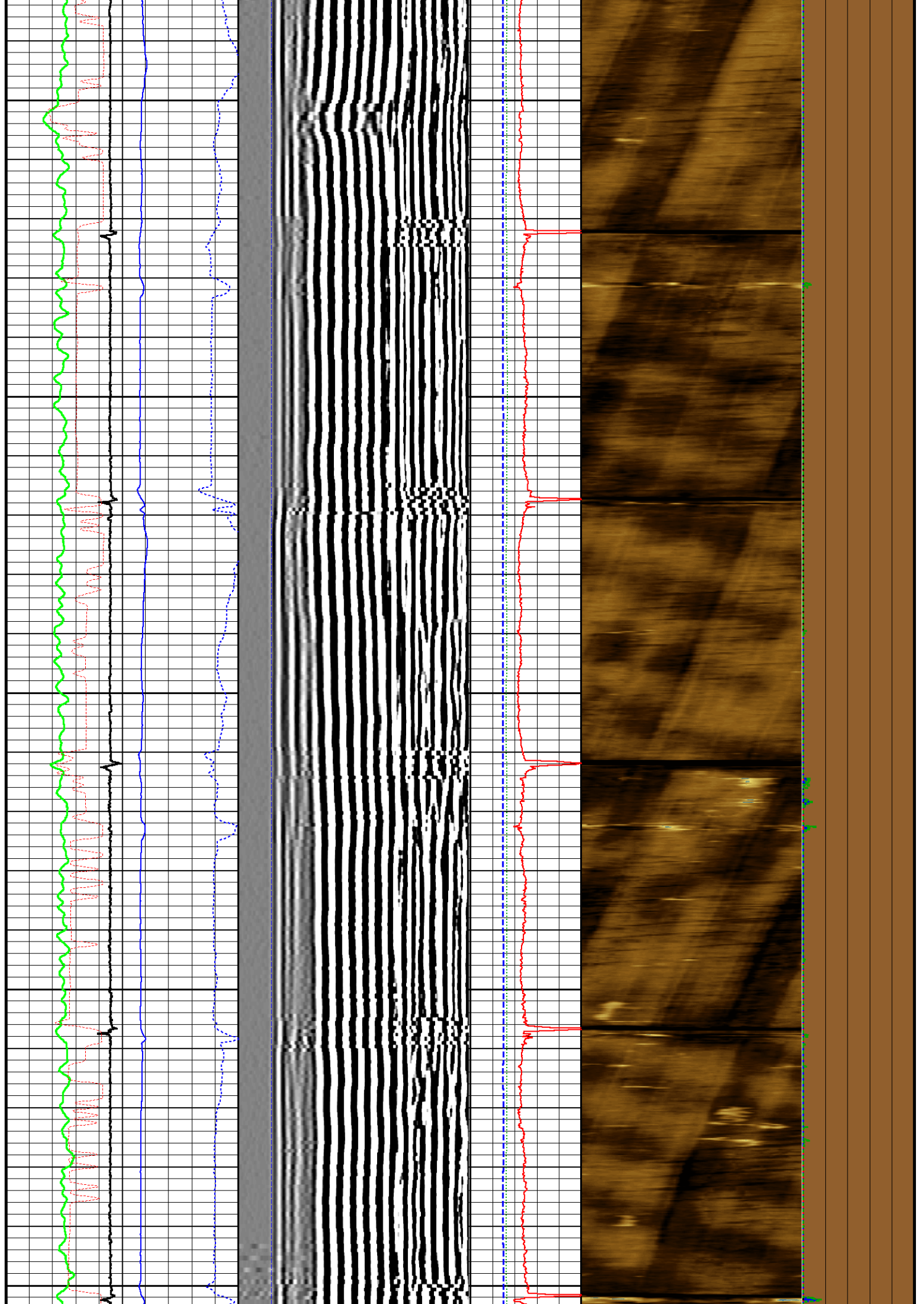
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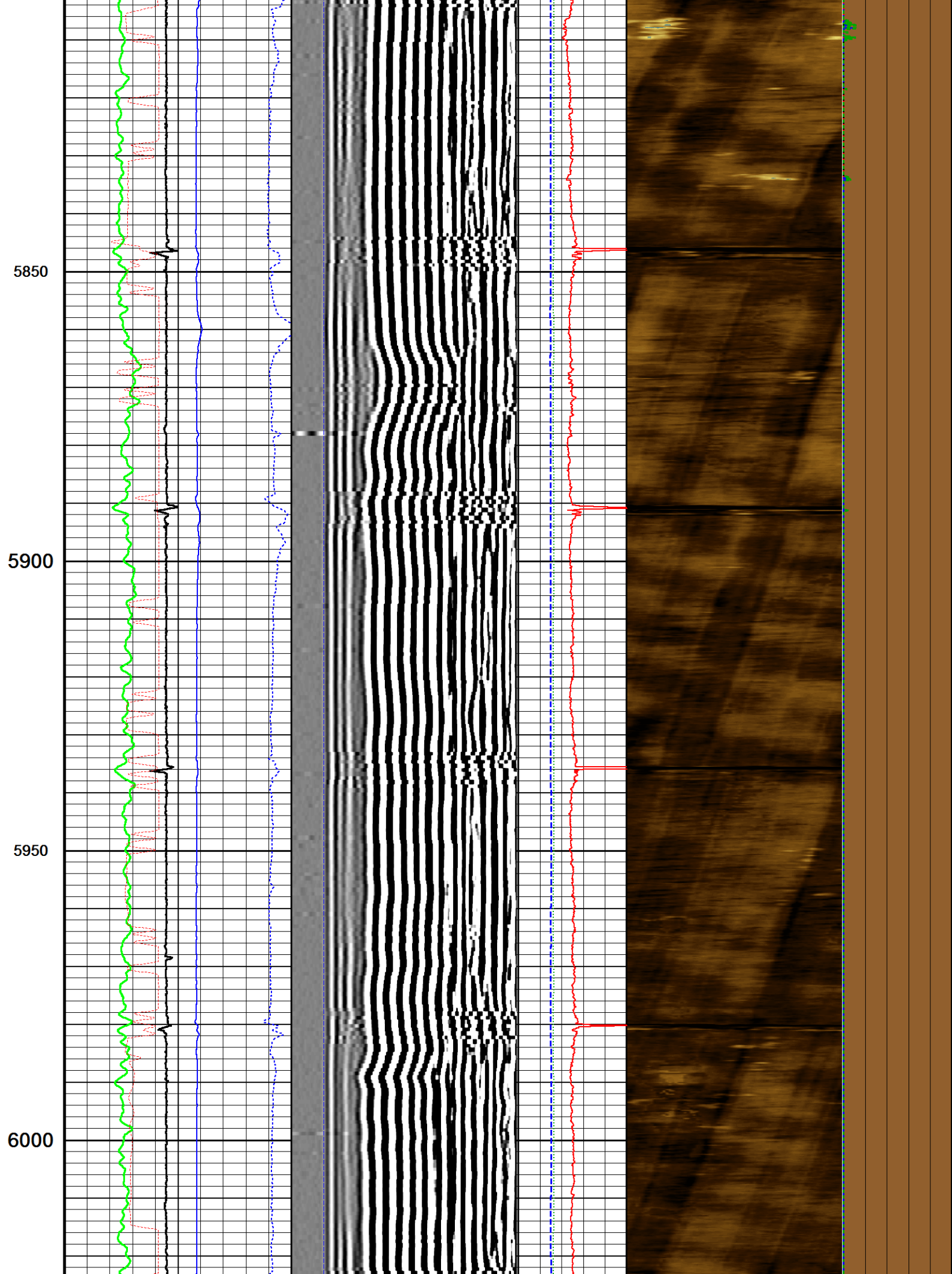
5500

5550



5600  
5650  
5700  
5750  
5800





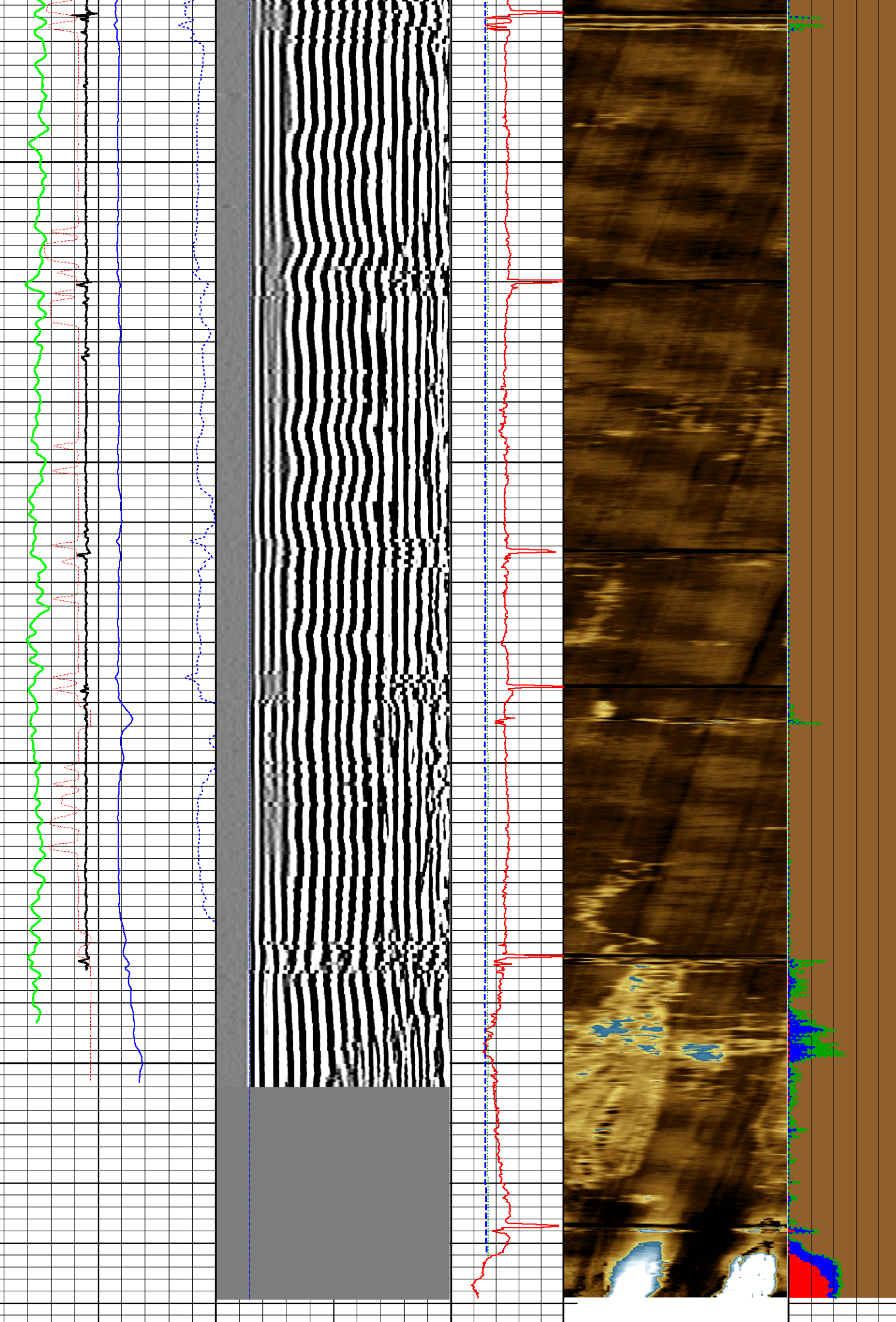
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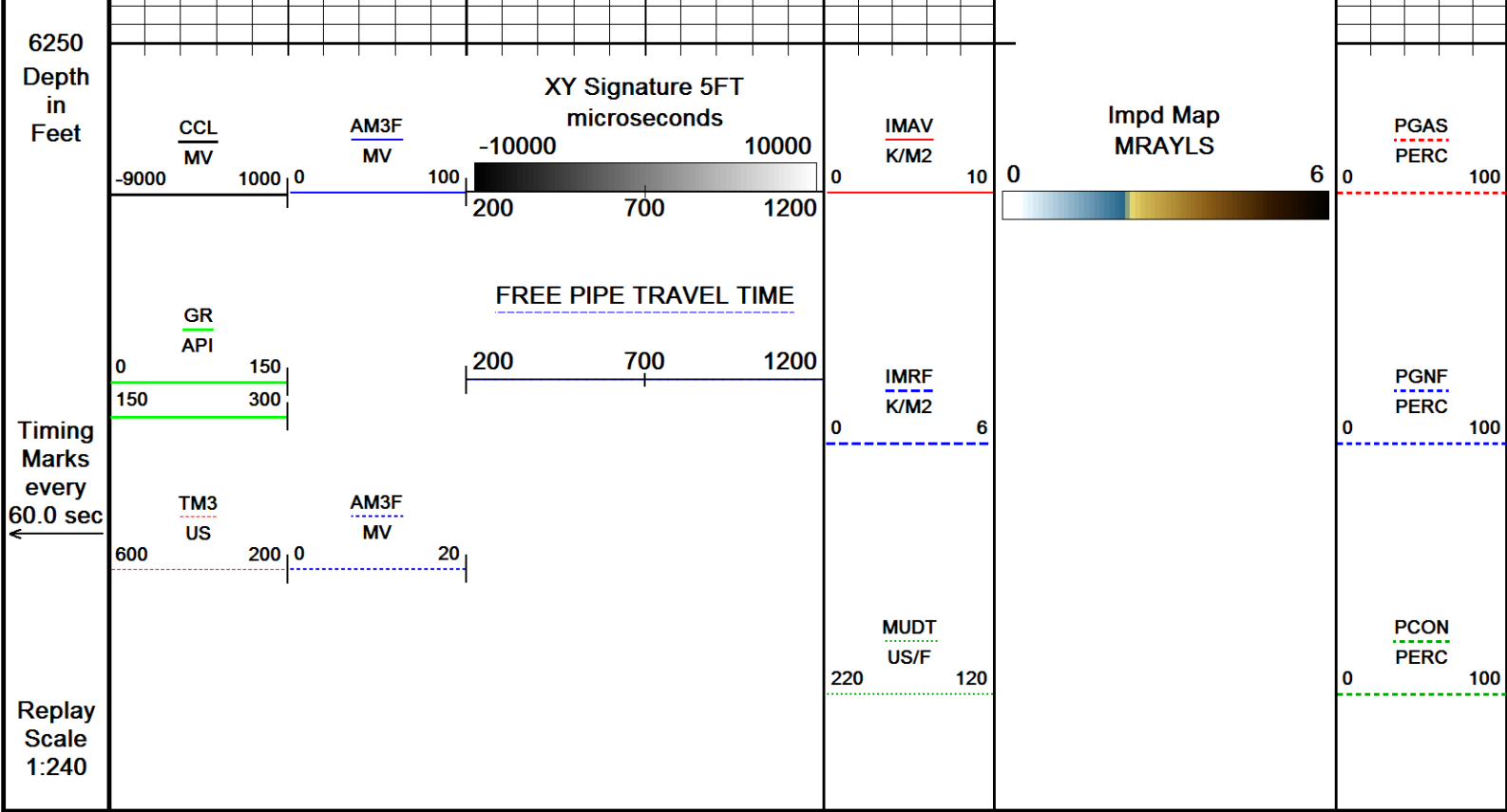
6100

6150

6200

PBTD



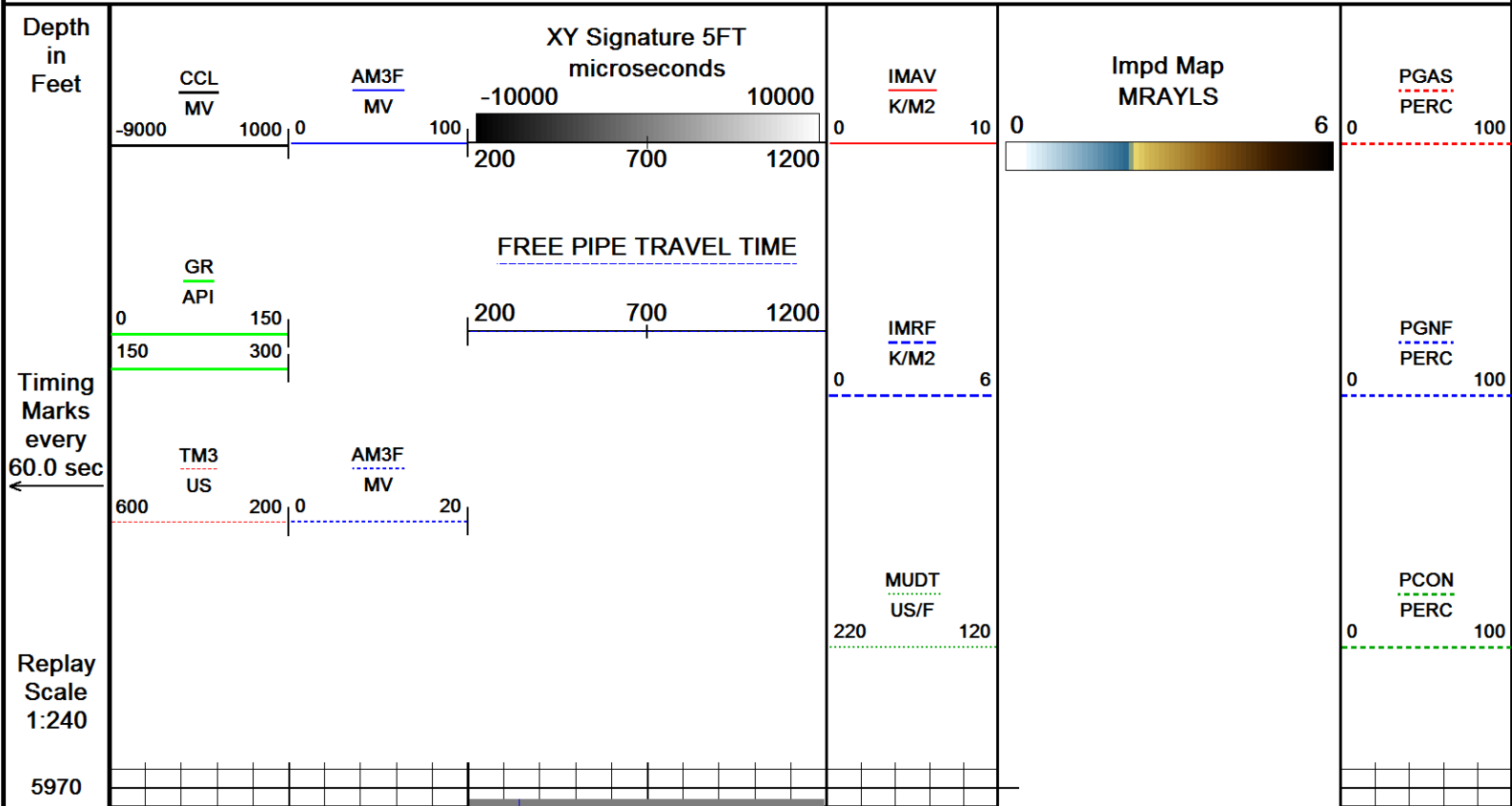


Depth Based Data - Maximum Sampling Increment 2.5cm Plotted on 16-AUG-2017 08:18  
 Filename: C:\Users\197426\Desktop\EXTRACTIO...JOHNSONS CORNER 13N MAIN PASS\_001.dta Recorded on 16-AUG-2017 07:56  
 System Versions: Logged with 17.01.6186 Processed with 17.01.6186 Plotted with 17.01.6186

↑ MAIN PASS 1:240 ↑

↓ REPEAT PASS 1:240 ↓

Depth Based Data - Maximum Sampling Increment 2.5cm Plotted on 16-AUG-2017 08:18  
 Filename: C:\Users\197426\Desktop\EXTRAC...JOHNSONS CORNER 13N REPEAT PASS\_001.dta Recorded on 16-AUG-2017 08:04  
 System Versions: Logged with 17.01.6186 Processed with 17.01.6186 Plotted with 17.01.6186

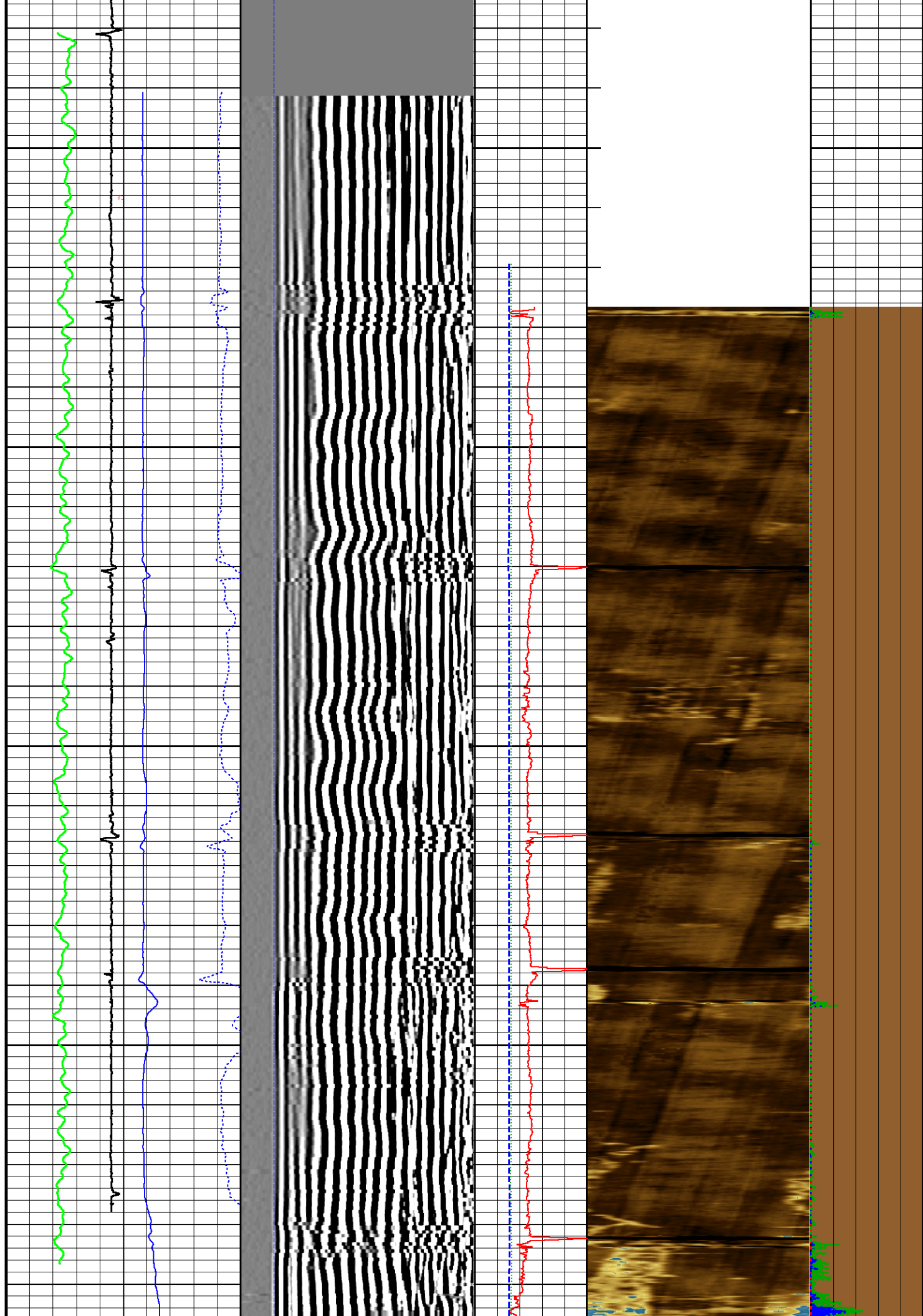


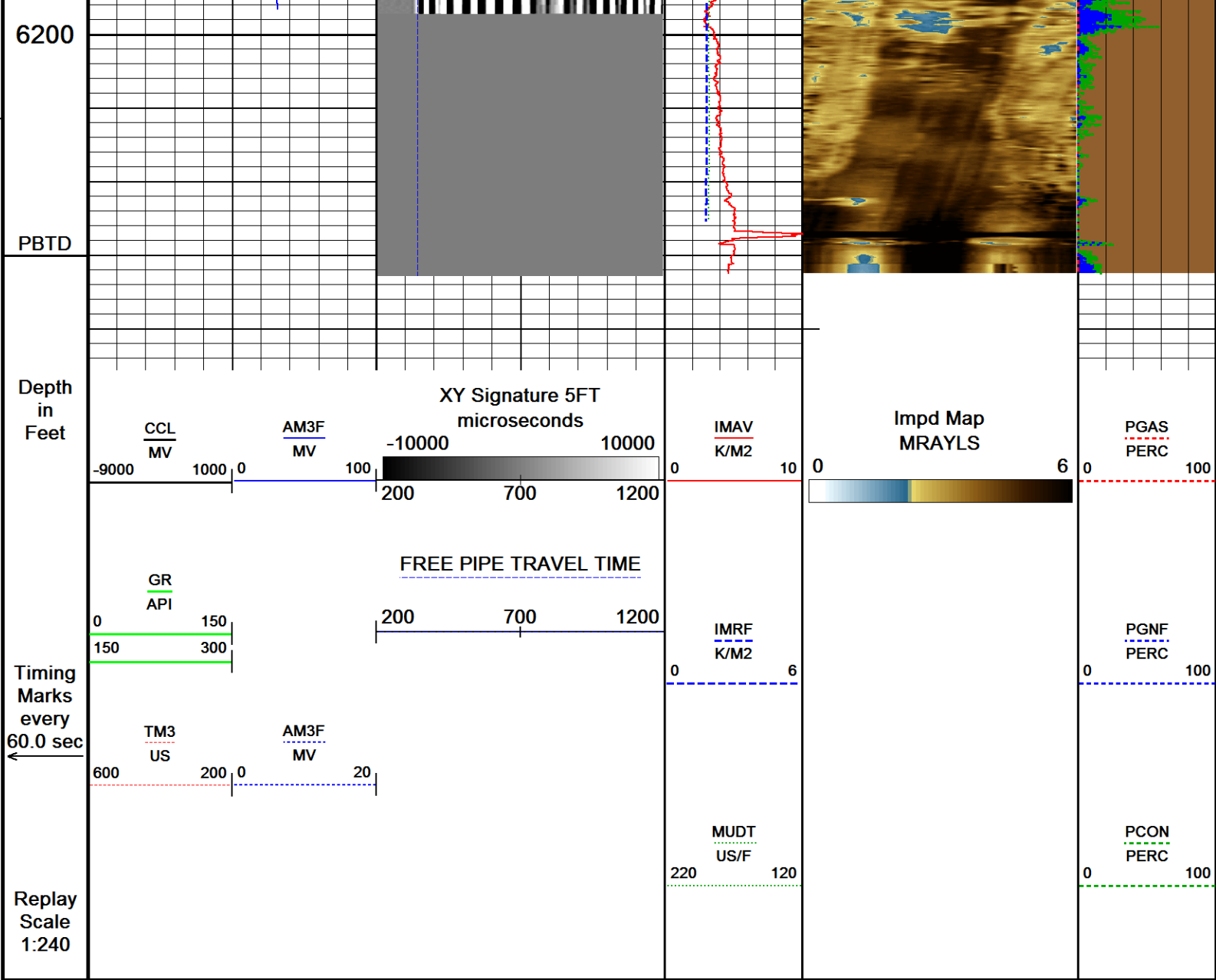
6000

6050

6100

6150





Depth Based Data - Maximum Sampling Increment 2.5cm  
 Plotted on 16-AUG-2017 08:18  
 Filename: C:\Users\197426\Desktop\EXTRAC...\JOHNSONS CORNER 13N REPEAT PASS\_001.dta  
 Recorded on 16-AUG-2017 08:04  
 System Versions: Logged with 17.01.6186 Processed with 17.01.6186 Plotted with 17.01.6186

↑ REPEAT PASS 1:240 ↑

SHOP AND FIELD CALIBRATIONS				
C:\Users\197426\Desktop\EXTRACTION\JOHNSONS CORNER 13-N\JOHNSONS CORNER 13N MAIN PASS_001.dta				
UGR Field survey cal UGR-JD 223				
Field calibration on 18-JUL-2017 10:30				
Gamma Ray Field survey calibration				
Tool Type: UGR-JD		Serial No: 223		
Calibrator No: TH038				
Background	Calibrator	Standard	Units	
78.6	564.5	140.0	CPS	
Delta Counts Per Sec: 485.9		CPS/API = 3.471		
CRT Field calibration CRT-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	709.13
AMP 5 FT	100 % Bond	2.00	0.00
	Free Pipe	48.00	549.60

CBT Constants CBT-AA 116

Last Edited on 16-AUG-2017 07:56

Min Ampl 100% Bond	9.20 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	-999.3 US
Cement Weight	0.00 LB/G

Ultrasonic Radial Scanner Before Cal USH-BA 192

Field Calibration on 00-JAN-1988 00:00

Ultrasonic Radial Scanner Before Calibration

Tool Type USH-BA Serial No 192

	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-BA 192

Last Edited on 16-AUG-2017 07:56

\*\*\* 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	3.90
ZMud Cal Area Ratio	2.80

**\*\* 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	17000.00	5.50	20.00	1.50	1.50	0.36	1.00

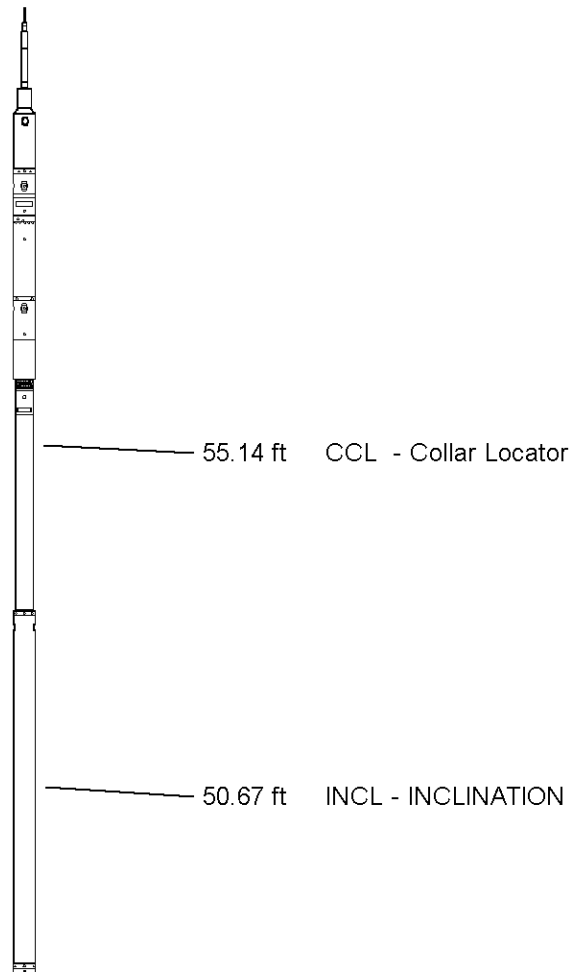
**\*\* Constants \*\***

Thickness calculated from	Tool
Radius Offset	-0.25
Mud slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.85 K/M2
Z_mud Outside	1.85 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\JOHNSONS CORNER 13-N\JOHNSONS CORNER 13N MAIN PASS\_001.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 128 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 196 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



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

47.05 ft GR - Gamma Ray

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

36.70 ft AM3F - Amplitude 3FT

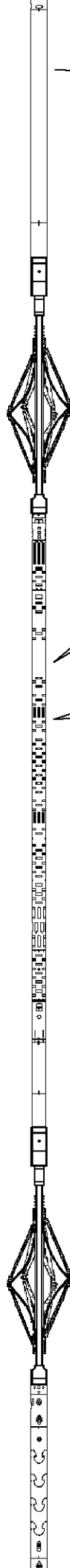
36.70 ft TM3 - Travel Time 3FT

35.70 ft TM5 - Travel Time 5FT

35.70 ft XY5 - XY Signature 5FT

55 pin Roller Centralizer  
CEN-XA 222 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



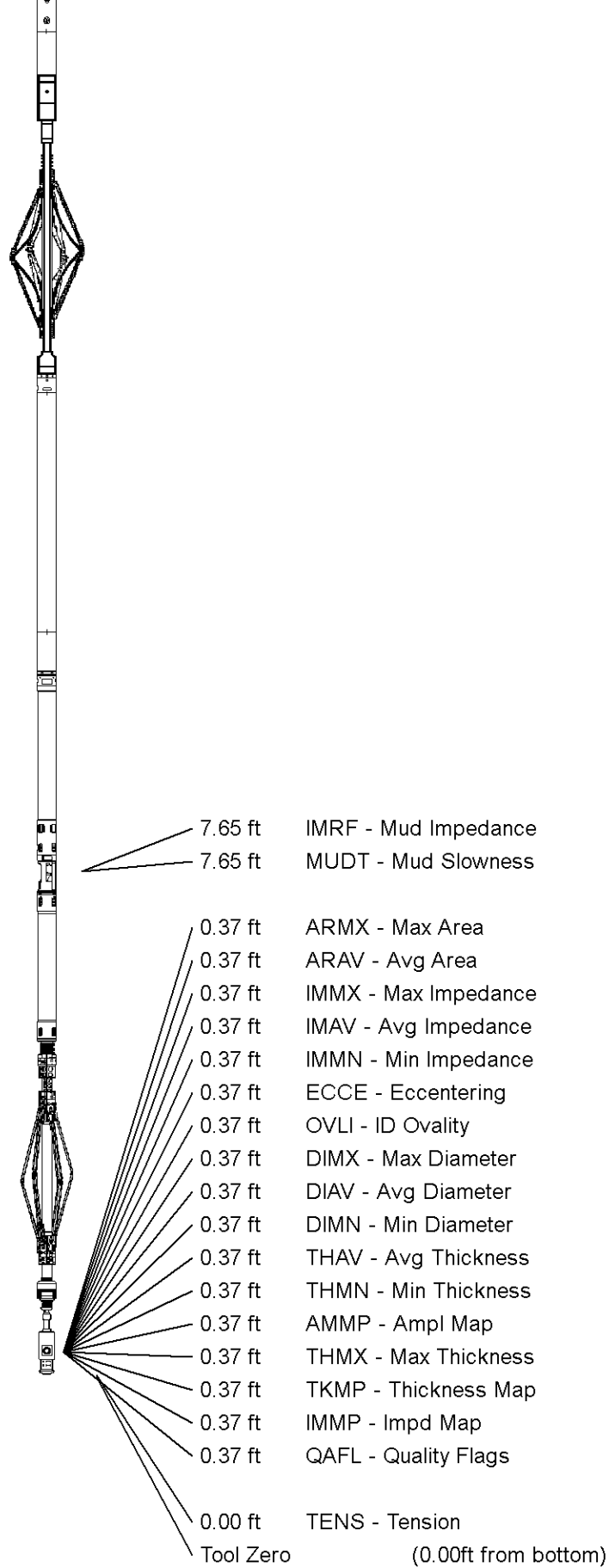
55 pin Roller Centralizer  
 CEN-XA 196 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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 B  
 USH-BA 192 LG: 1.03 ft WT: 13.2 lb OD: 3.150 in

Total Length: 60.78 ft Weight: 1031.8 lb



All measurements relative to tool zero.

COMPANY  
 WELL  
 FIELD

EXTRACTION OIL AND GAS  
 JOHNSONS CORNER 13-N

PROVINCE/COUNTY

WELD COUNTY

COUNTRY/STATE

UNITED STATES / COLORADO

Elevation Kelly Bushing

feet

Bottom Log Interval

6230.00

feet

Elevation Drill Floor

feet

Depth Driller

feet

Elevation Ground Level

feet

Depth Logger

6230.00

feet



SECUREVIEW

ULTRAVIEW / BONDVIEW

CEMENT ANALYSIS LOG

**Weatherford**<sup>®</sup>