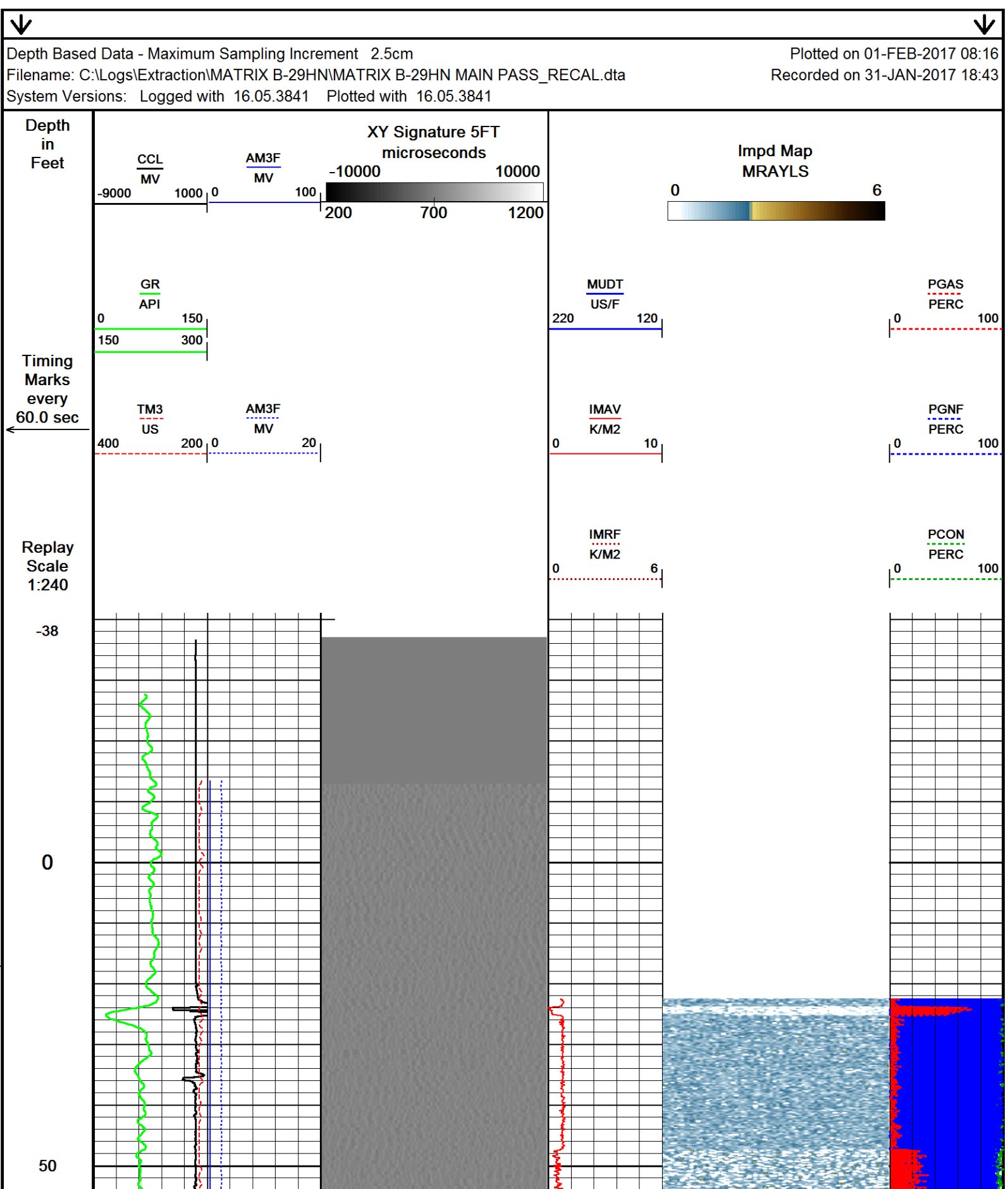
 Weatherford®			SECUREVIEW ULTRAVIEW/BONDVIEW CEMENT ANALYSIS					
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION			EXTRACTION OIL & GAS MATRIX B-29HN GREELEY WELD USA / COLORADO					
SEC 29	TWP 6N	RGE 65W	Other Services					
Latitude Longitude API Number		Permanent Datum GROUND LEVEL, Elevation 4888 feet Log Measured From KB, 28 feet above Permanent Datum Drilling Measured From KB @ 28'			Elevations: KB 4916.00 DF 4916.00 GL 4888.00			
Date	31-JAN-2017				PERFORATION RECORD			
Run Number	ONE				Shot	Number	Depth From	Depth To
Service Order	173092787				Density	of Shots	feet	feet
Type Log	URS/CBT							
Depth Driller	12000.00	feet						
Depth Logger	6550.00	feet						
Top Log Interval	0.00	feet						
Bottom Log Interval	6550.00	feet						
Hole Fluid Type	WATER							
Hole Fluid Level	0.00	feet						
Restriction ID	4.767	inches	Gun Type					
Max Recorded Temp			Gun Size					
Well Head Pressure	0.00	psi	CASING / TUBING RECORD					
Well Head Equipment		Size	Weight	Depth From	Depth To			
Time Well Ready	ROA	inches	pounds/ft	feet	feet			
Time Logger Bottom	SEE LOG	5.500	20.00	0.00	12000.00			
Unit	14333							
Equipment Name	WSSE							
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
	P 110		5.500	0.00	12000.00	20.00

REMARKS
ULTRASONIC RADIAL SCANNER LOG CORRELATED TO RIG KB @ 28 FT ABOVE GROUND LEVEL
BELOW SURFACE CASING THE TOOL HAD MANY AREAS WHERE IT EXPERIENCED DECENTRALIZATION DUE TO DEVIATION AND DOG LEGS IN THE CASING. IT SHOULD BE NOTED THAT THIS DECENTRALIZATION OF THE TOOL GREATLY AFFECTS THE READINGS RECORDED OVER THESE INTERVALS
ECCENTERICITY IS IN TRACK 1 AND REFLECTED BY FOUR STRIPES ALTERNATING LIGHT AND DARK IN THE AMPLITUDE AND IMPDEANCE MAPS. AT THESE POINTS THE READS ARE INVALID.
ALSO THE CASING SHOWED SIGNS OF BEING IN DIRCT CONTACT WITH THE FORMATION WHICH LEADS TO SPIKING IN THE THICKNESS CURVES
THE DEPTH OF LOGGING WAS STARTED AT THE POINT AT WHICH THE TOOL WAS NOT DEVIATED ENOUGH THAT IT CAUSE THE HEAD ON THE ULTRASONIC TOOL TO STOP ROTATING

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.

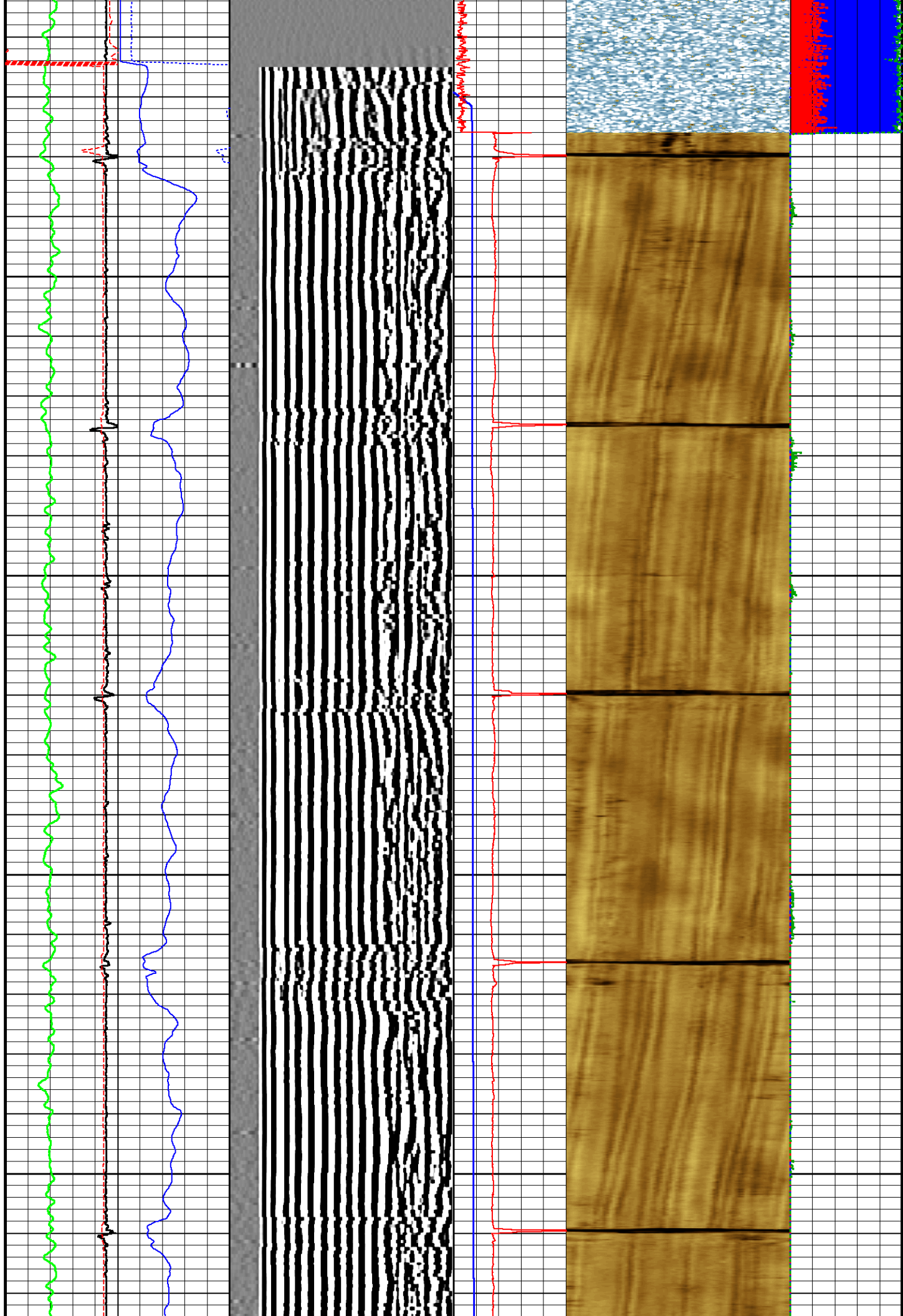


100

150

200

250

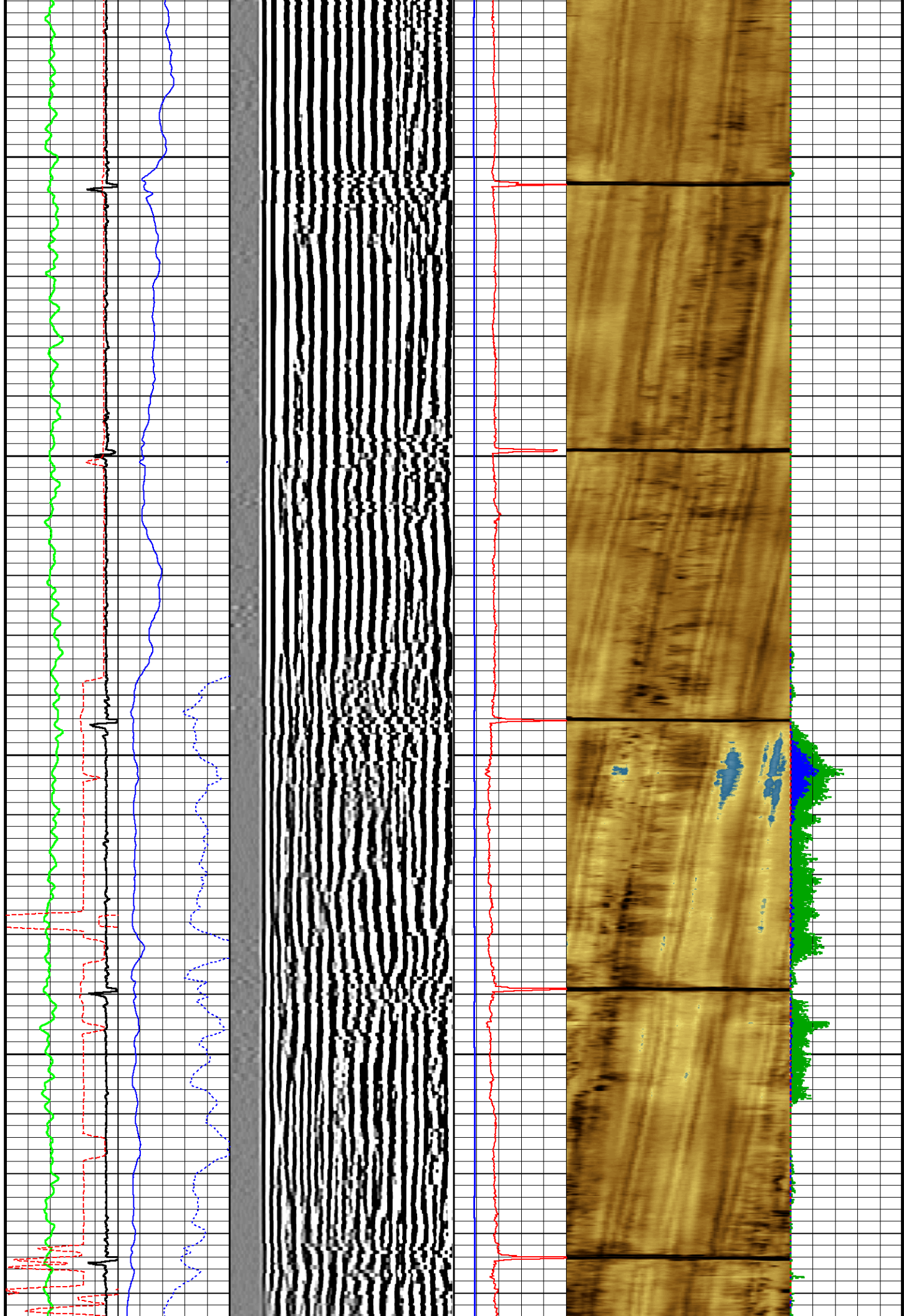


300

350

400

450



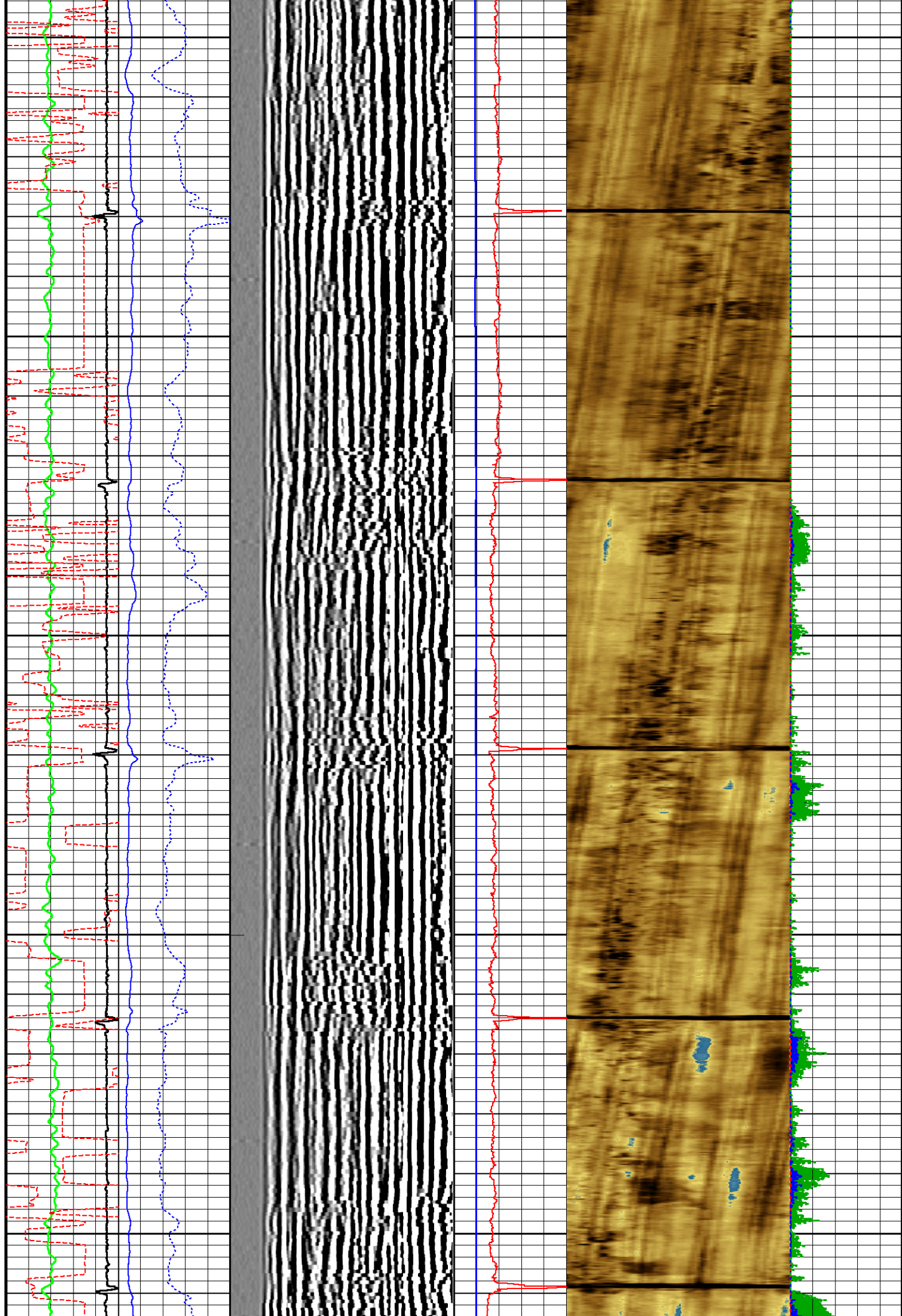
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550

600

650

700

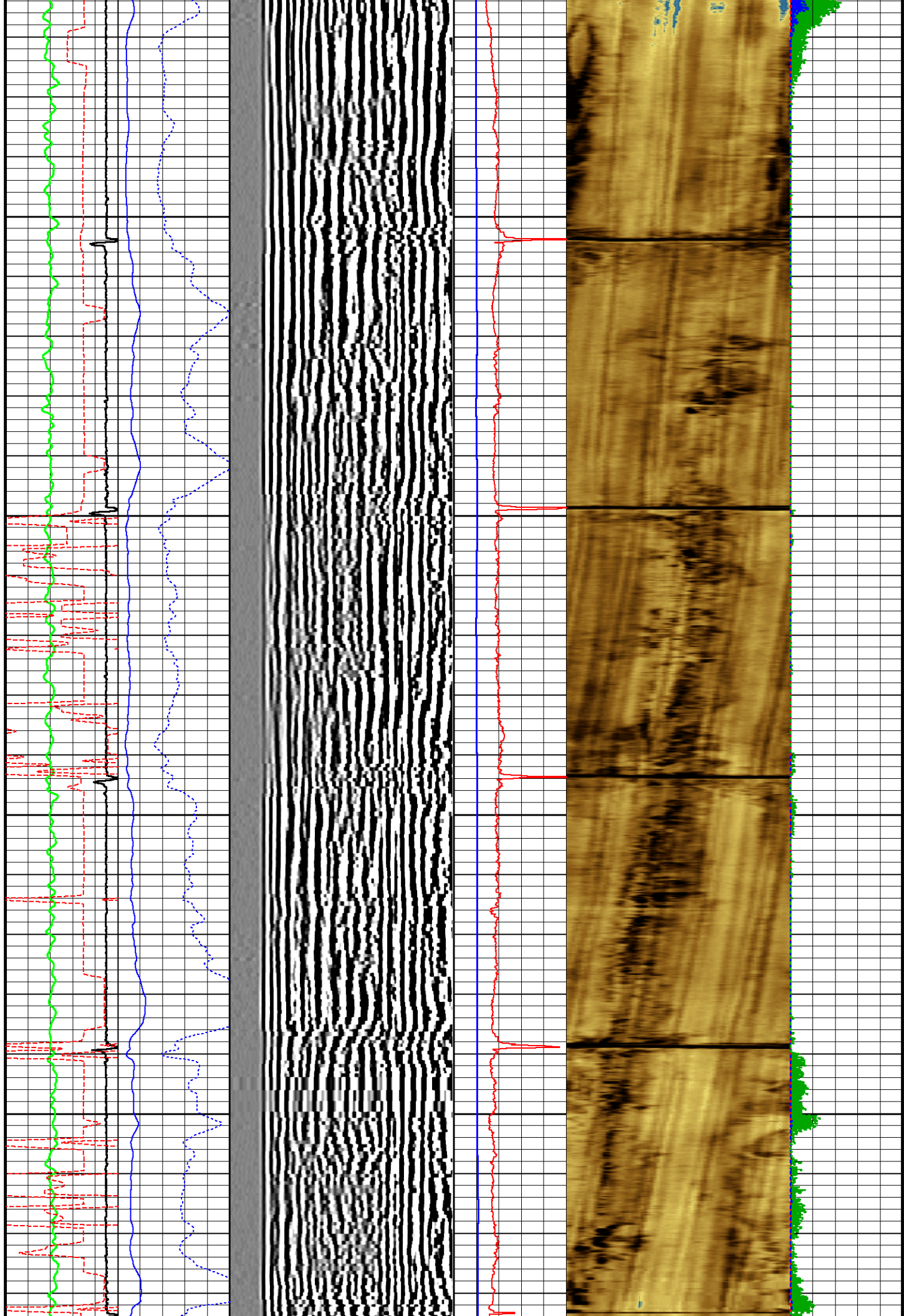


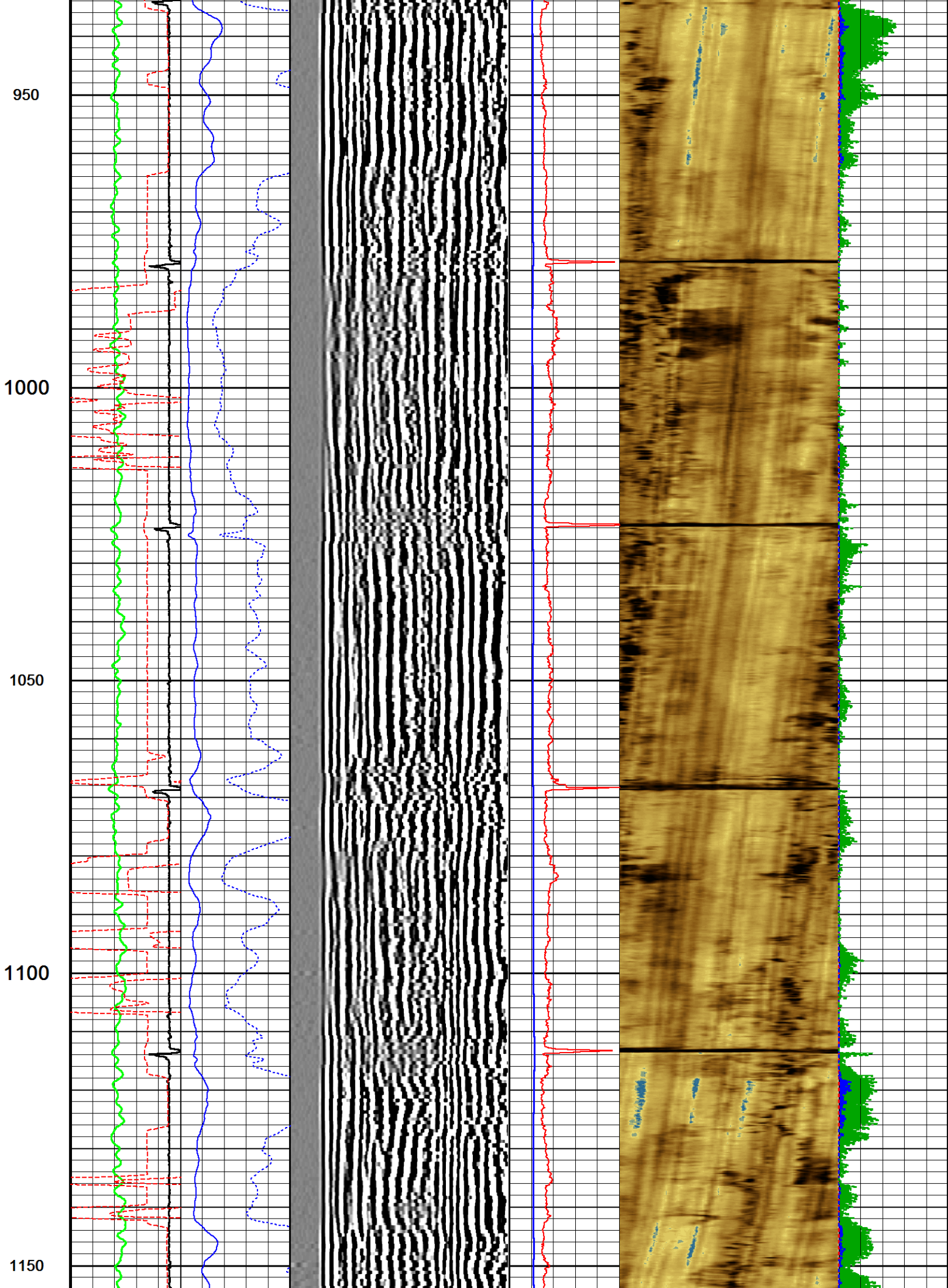
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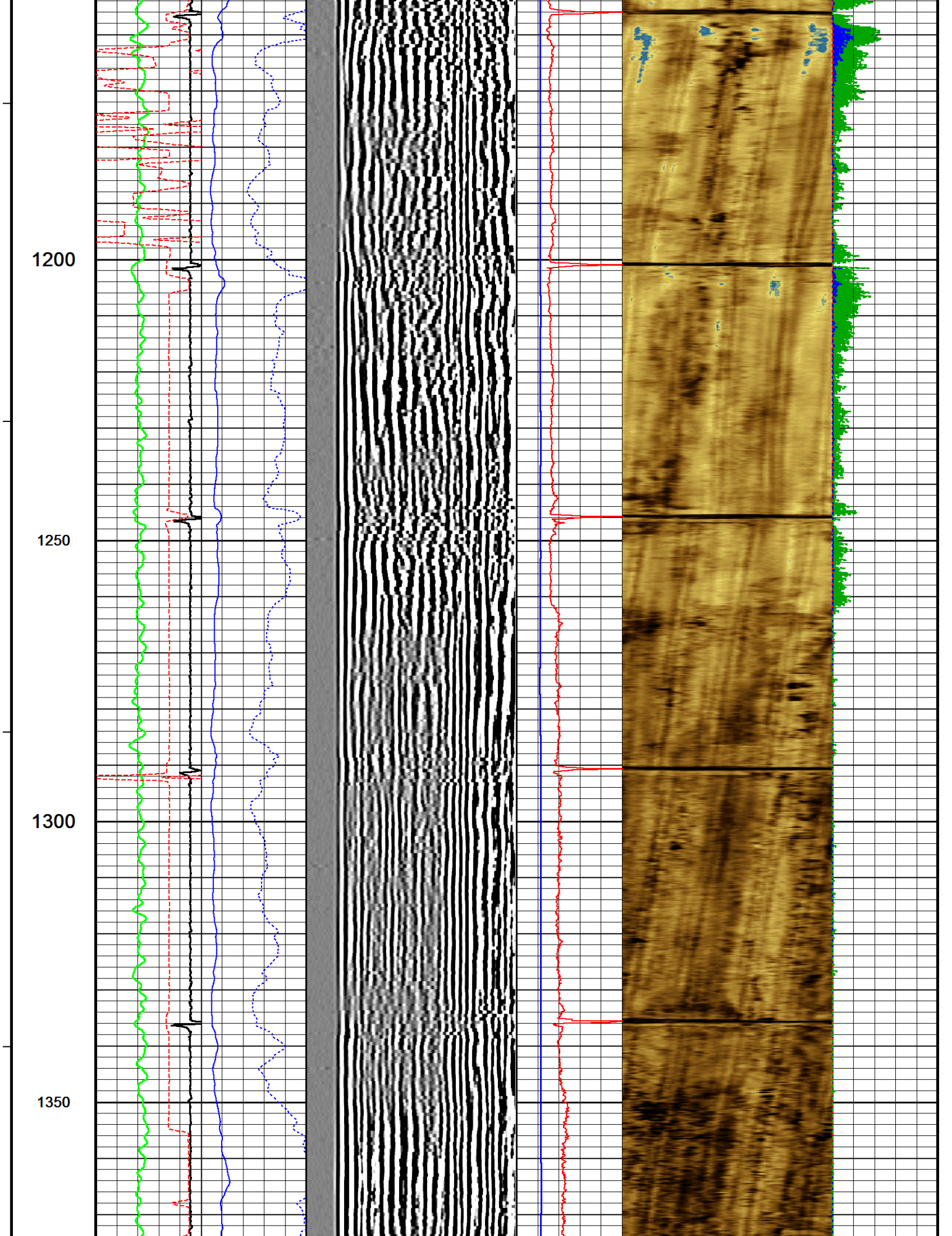
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850

900





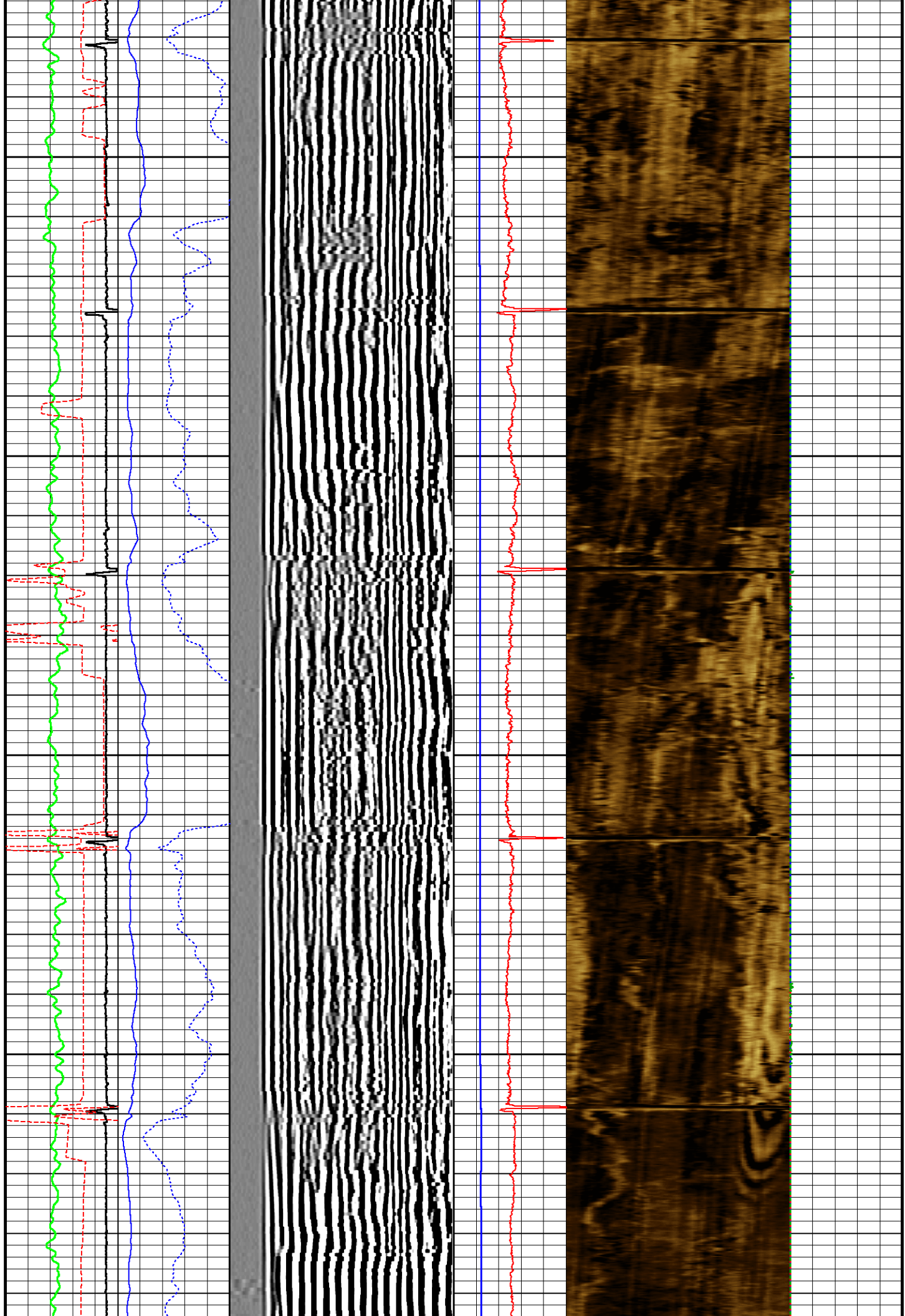


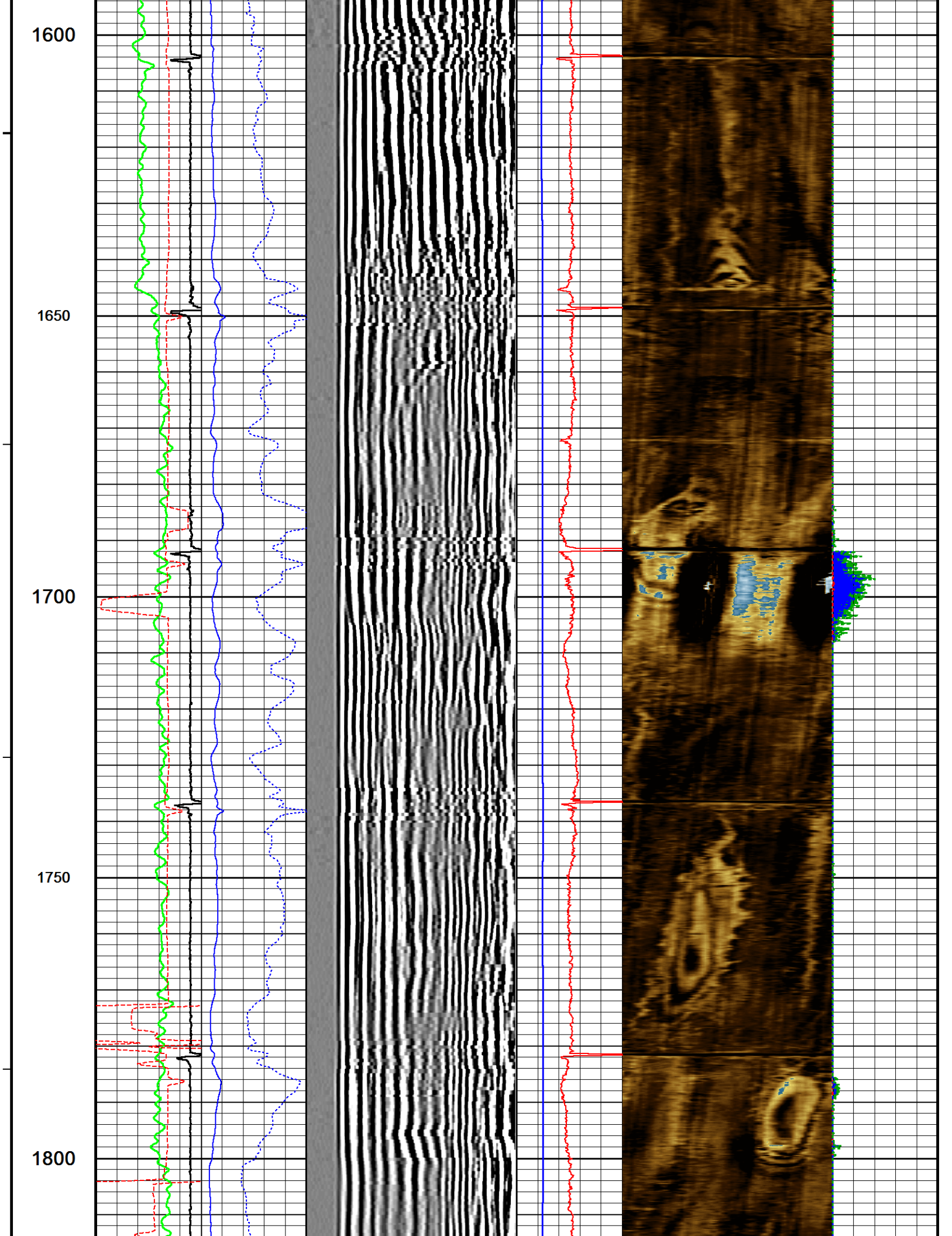
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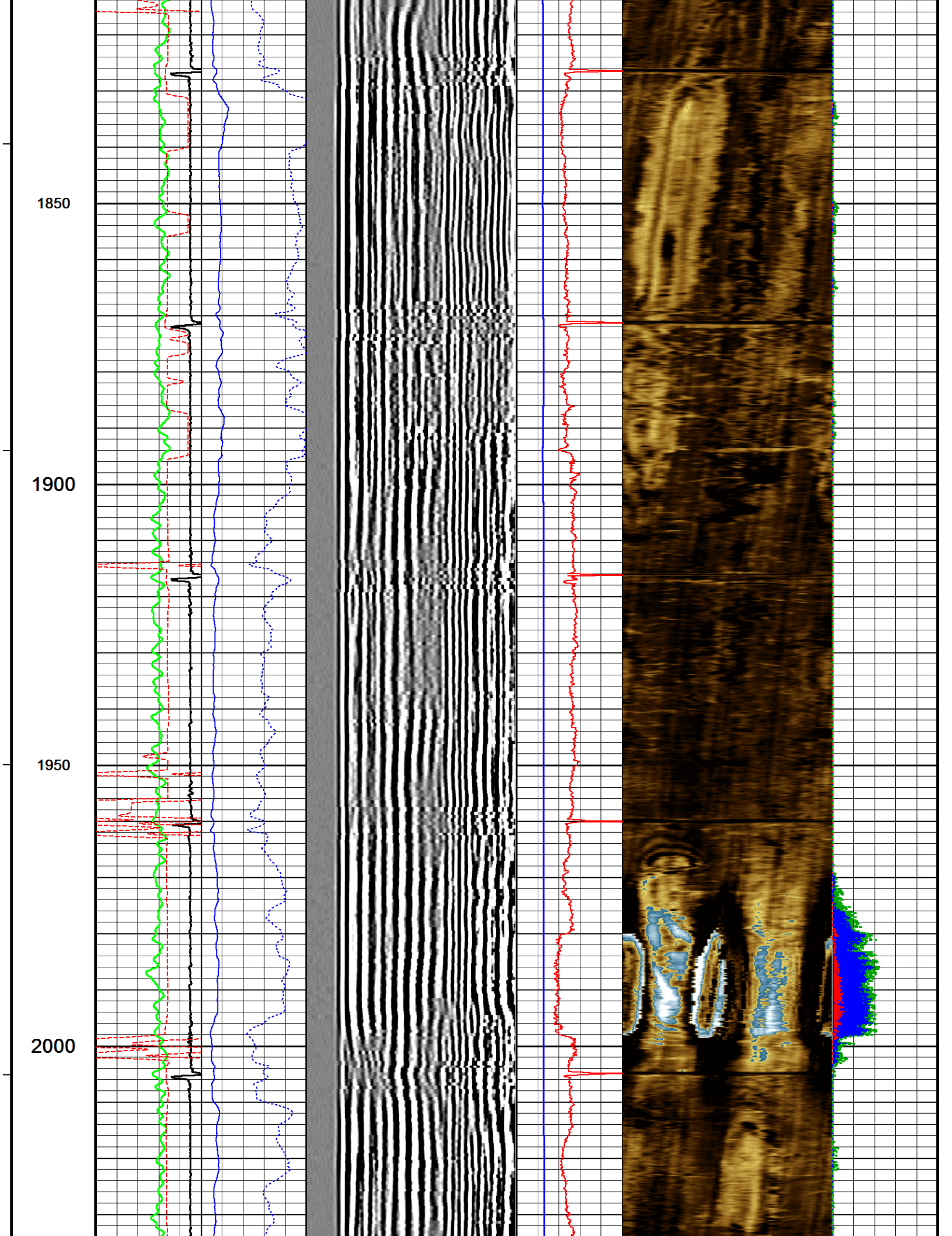
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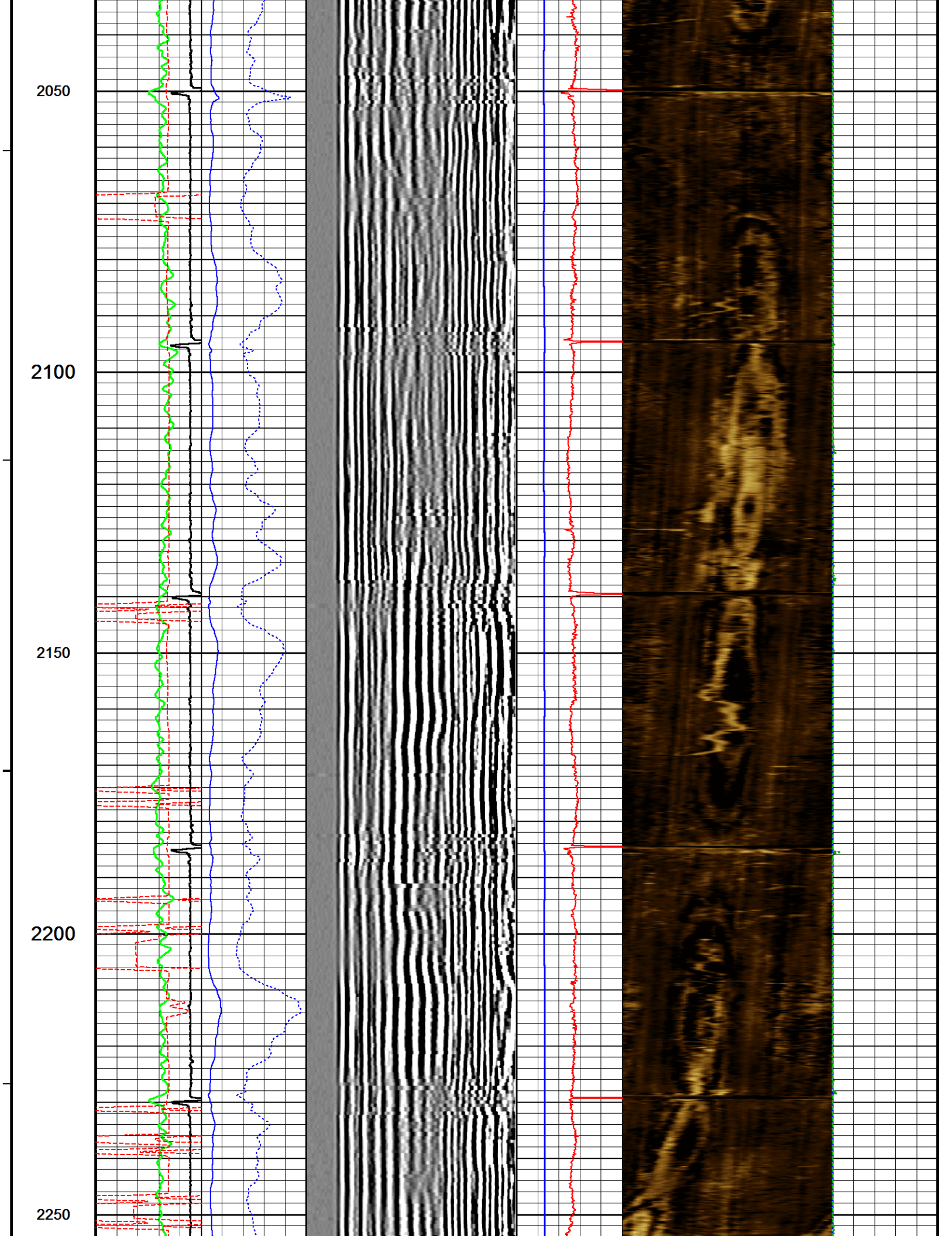
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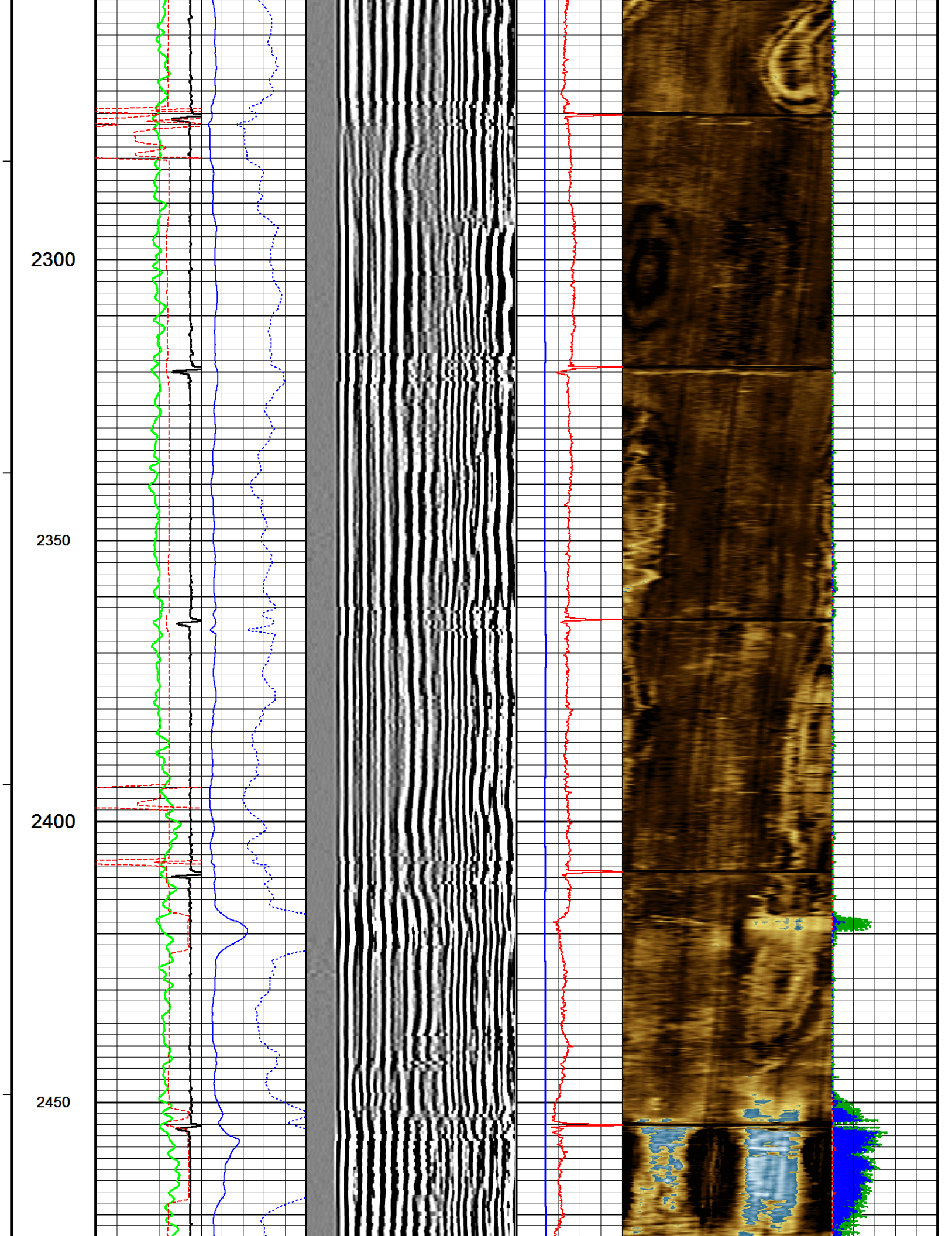
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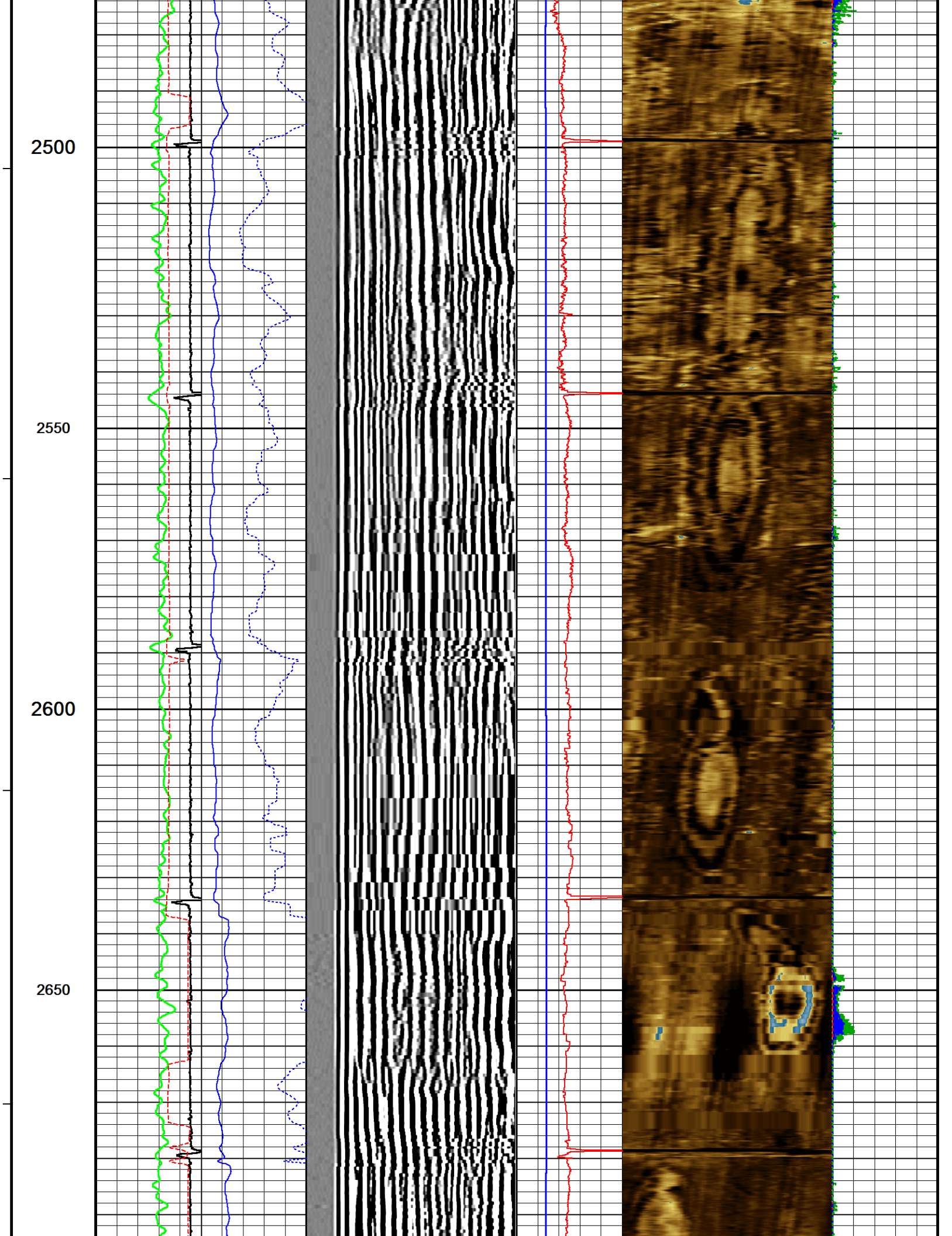












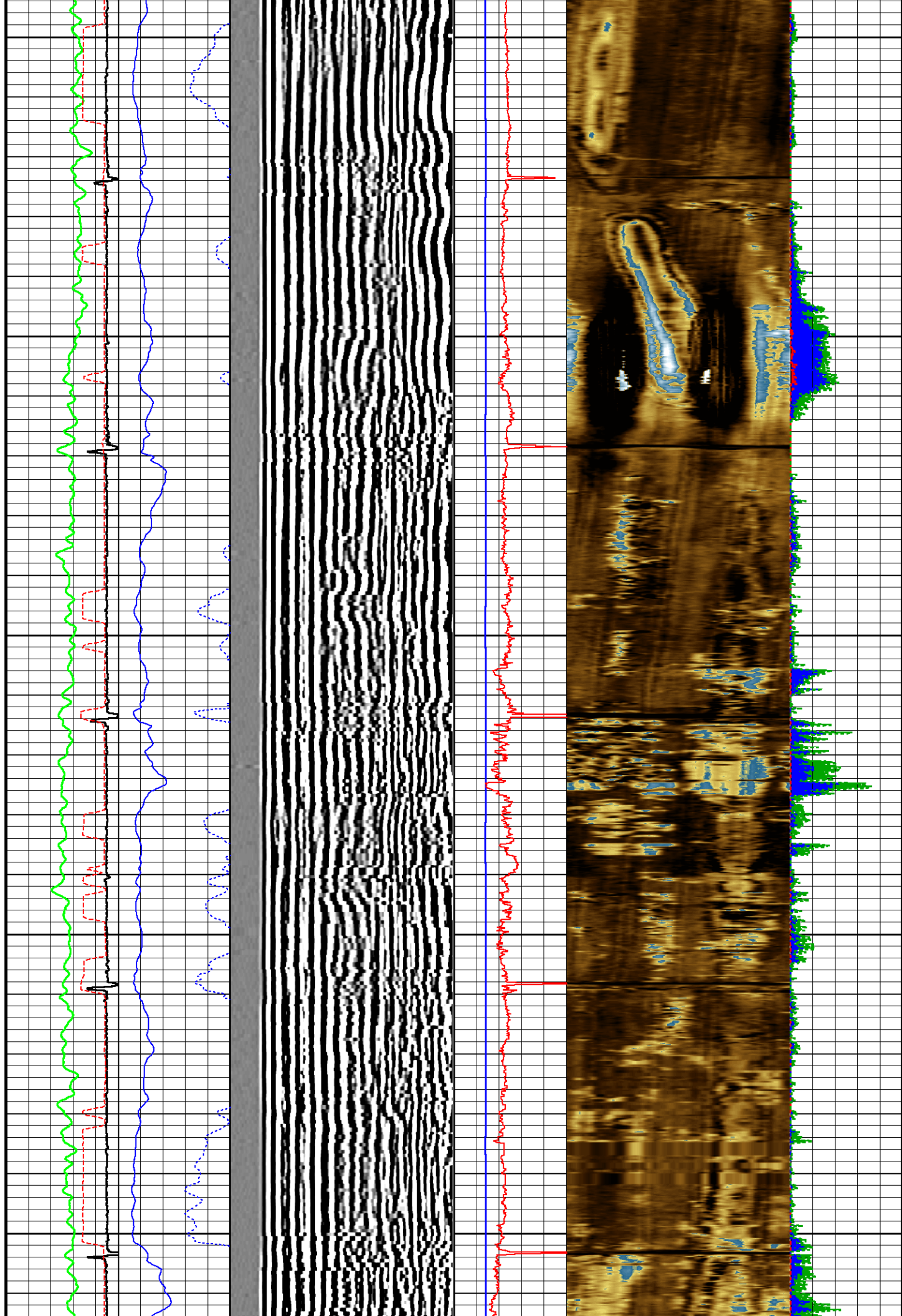
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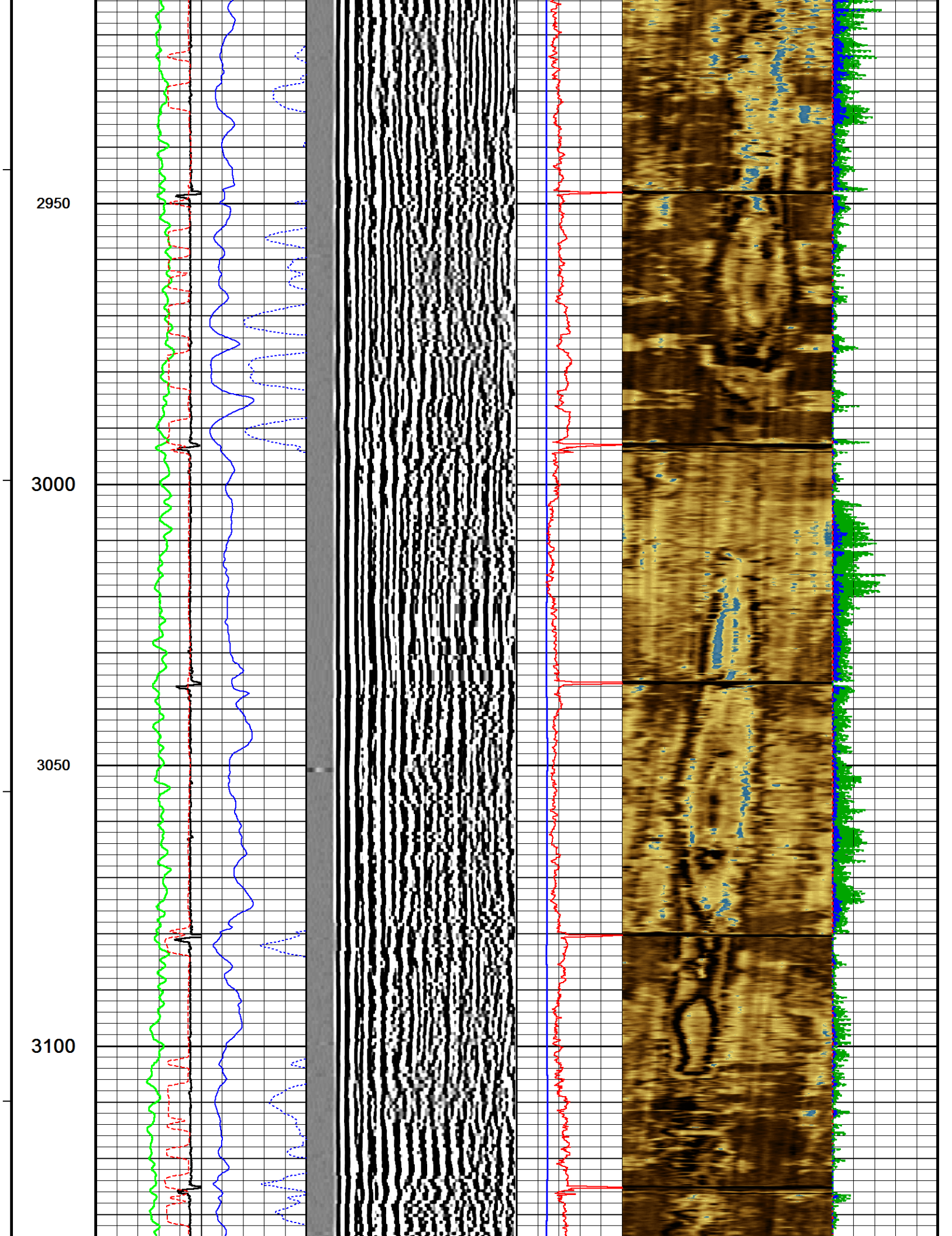
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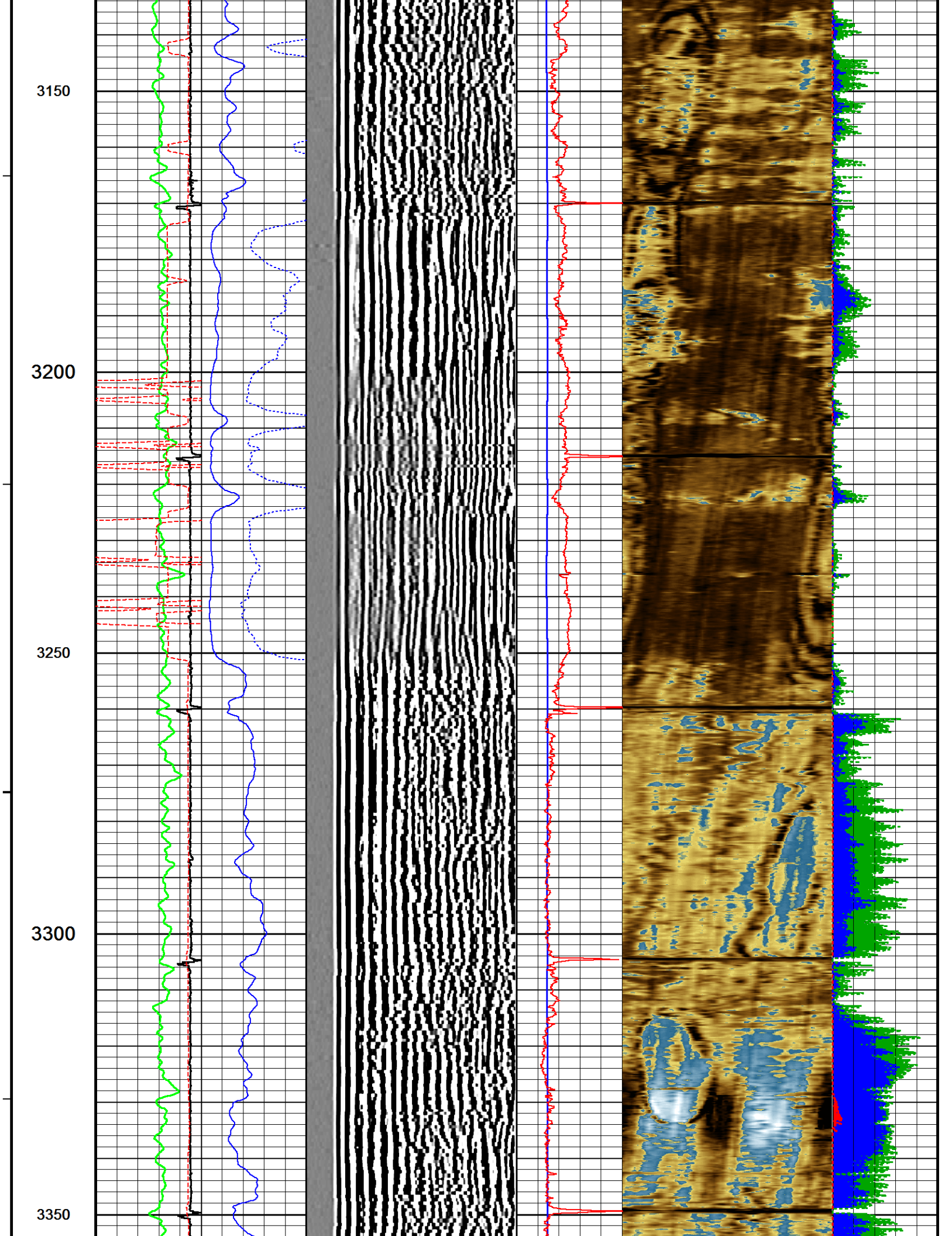
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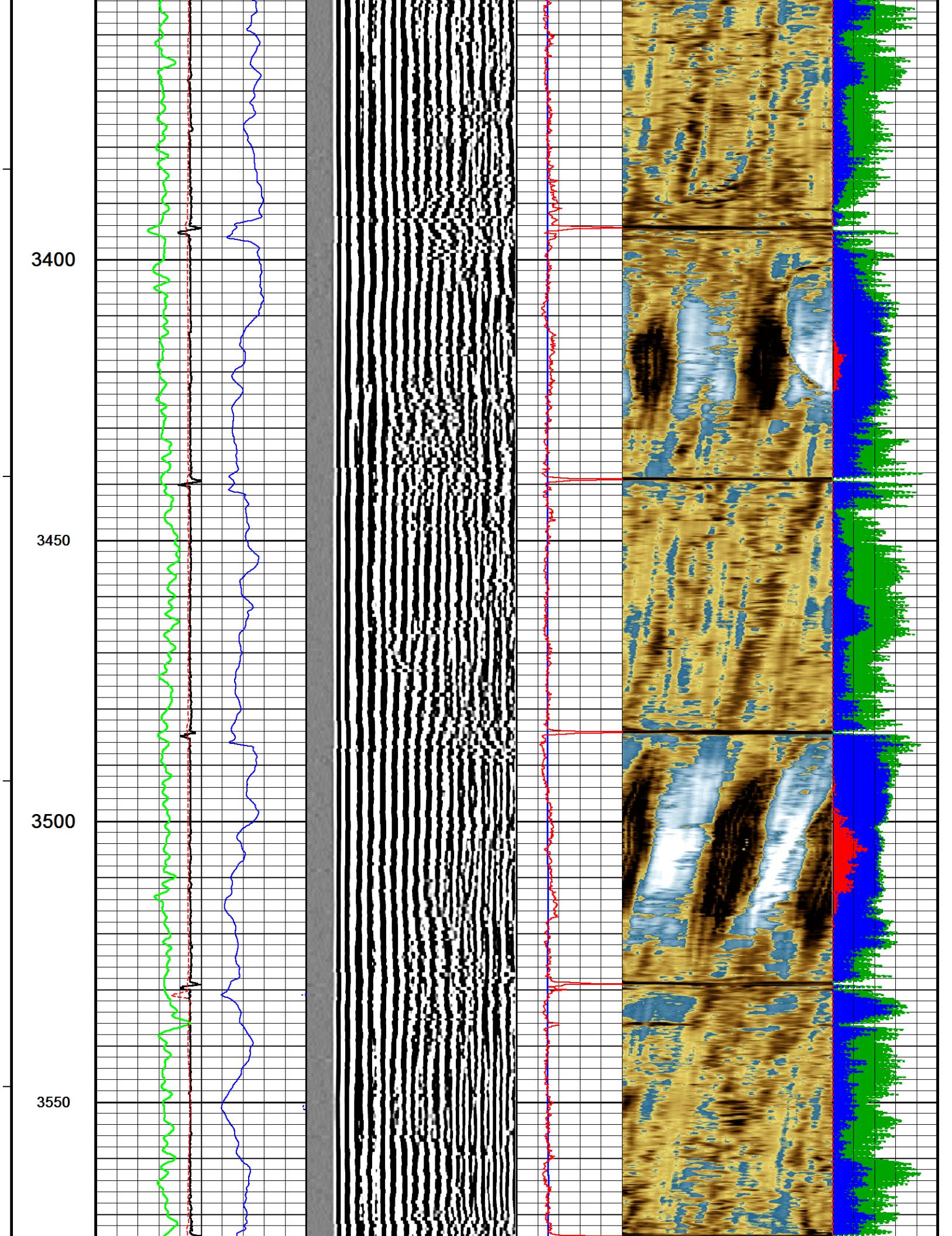
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2900







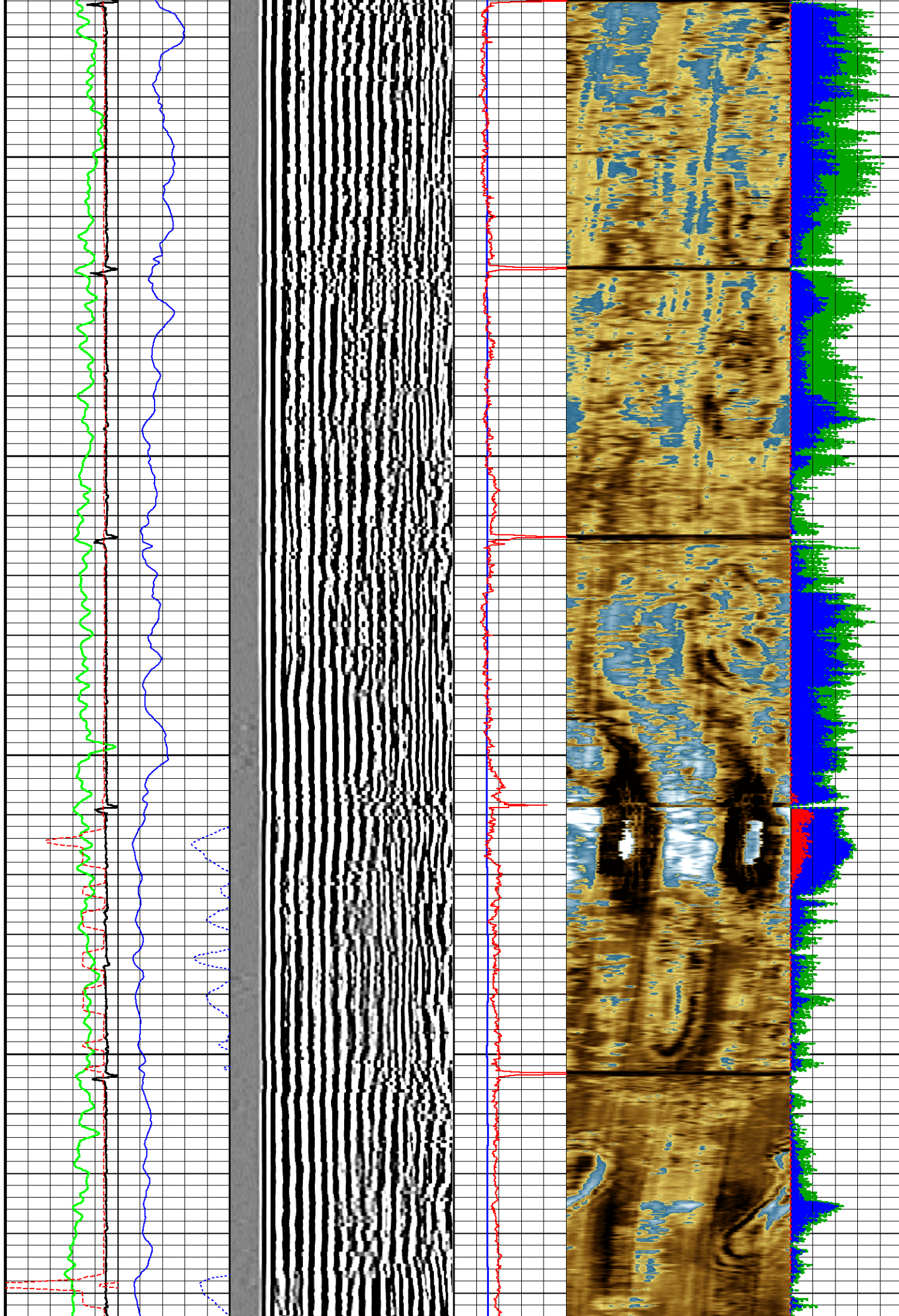


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3650

3700

3750



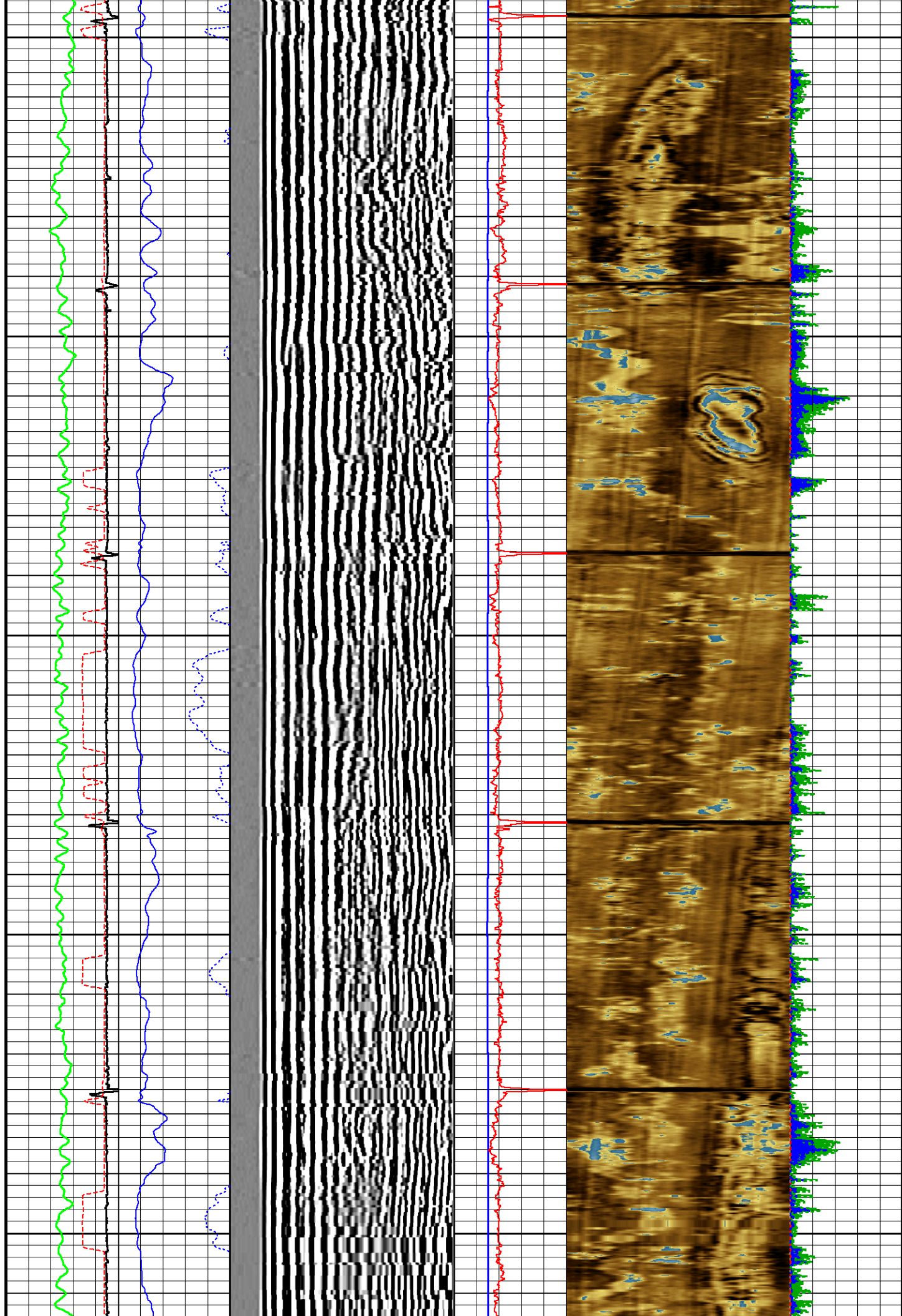
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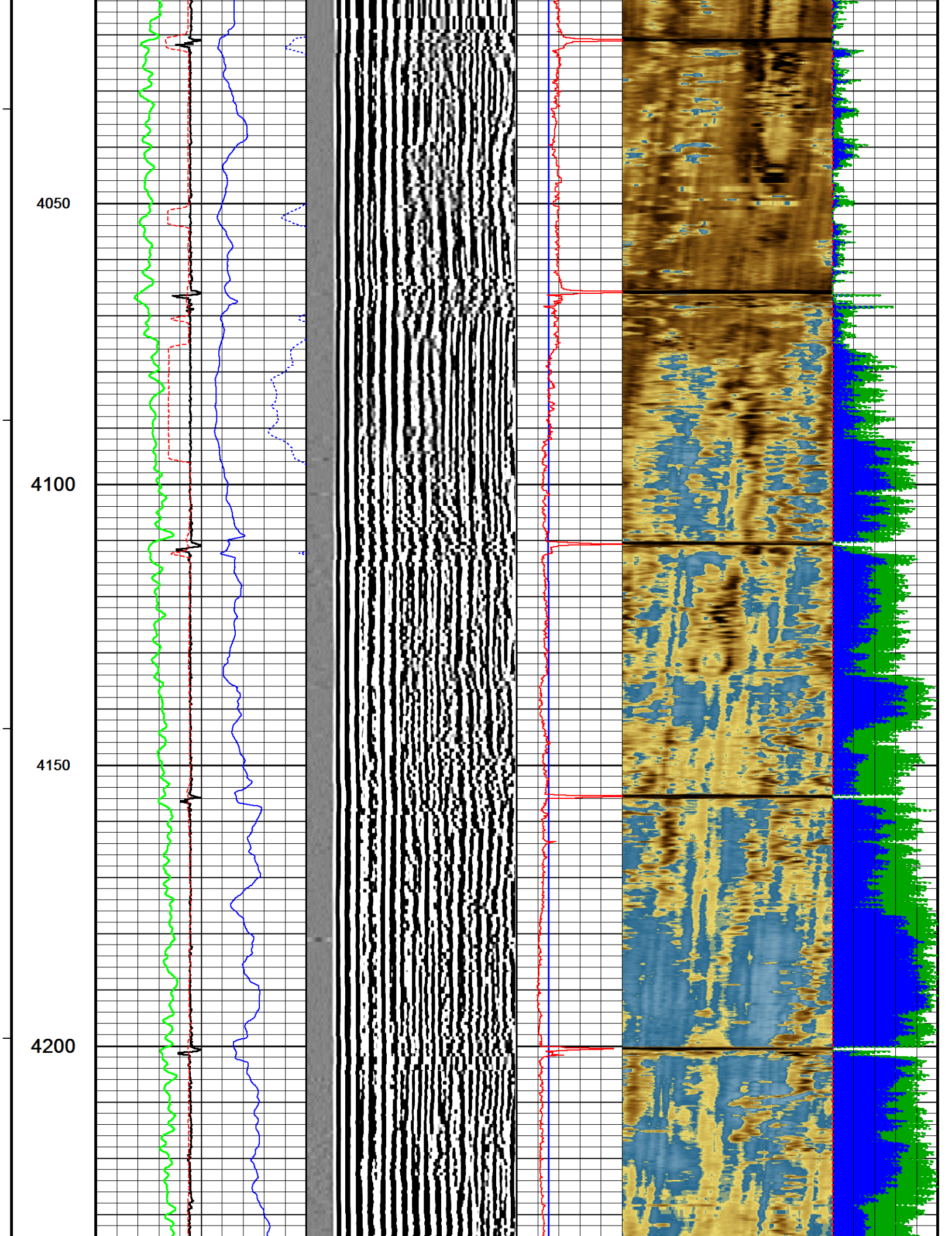
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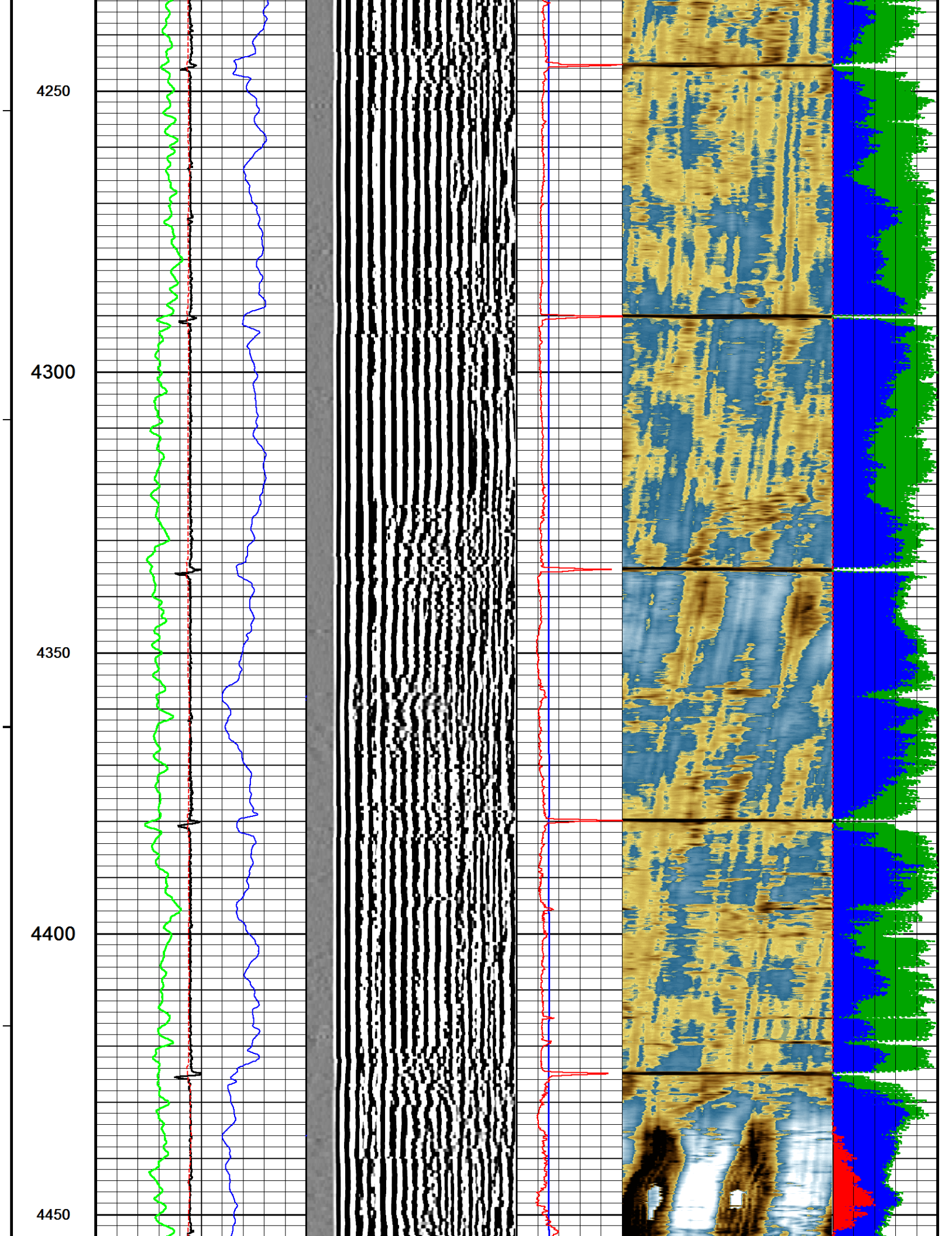
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3950

4000





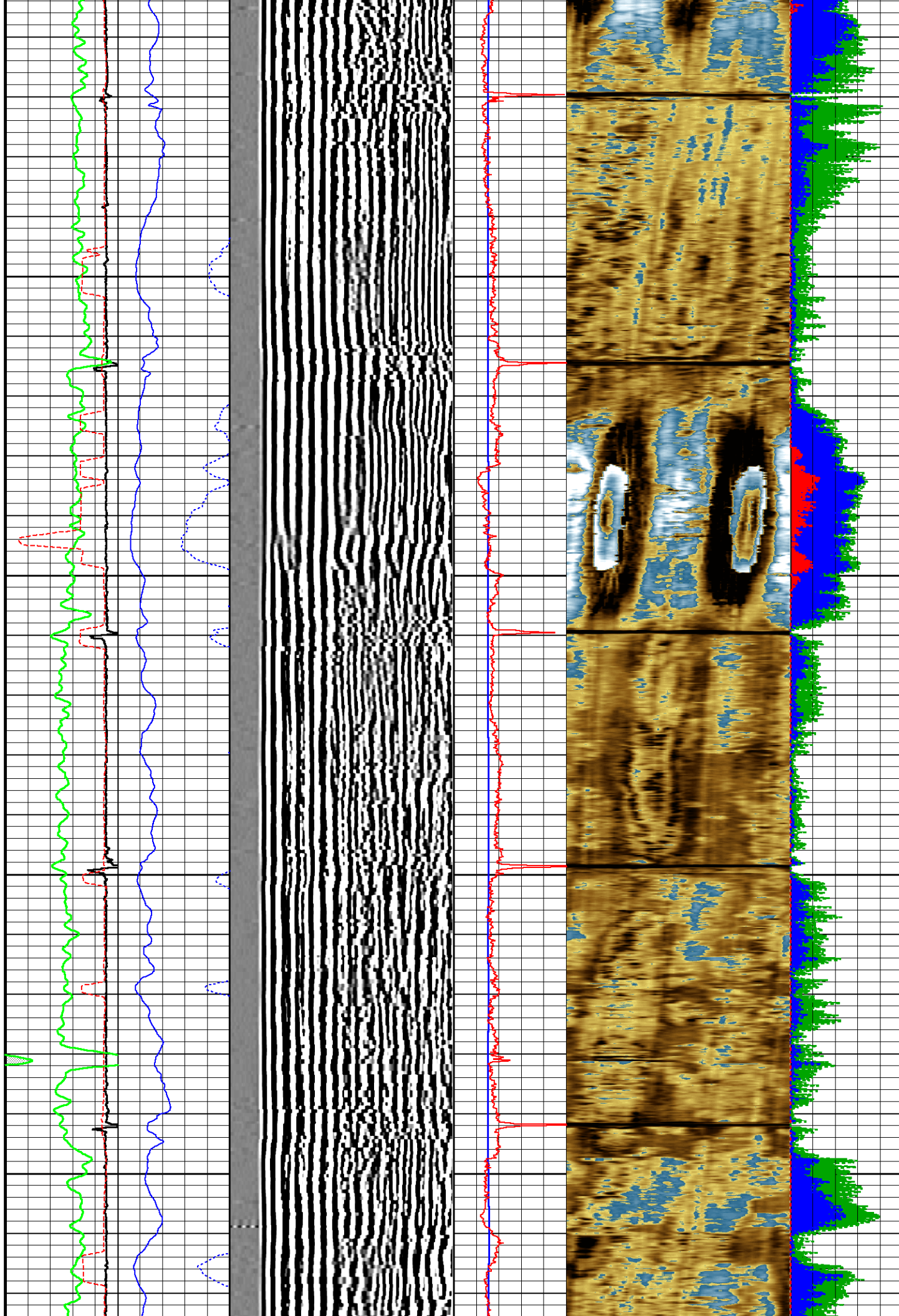


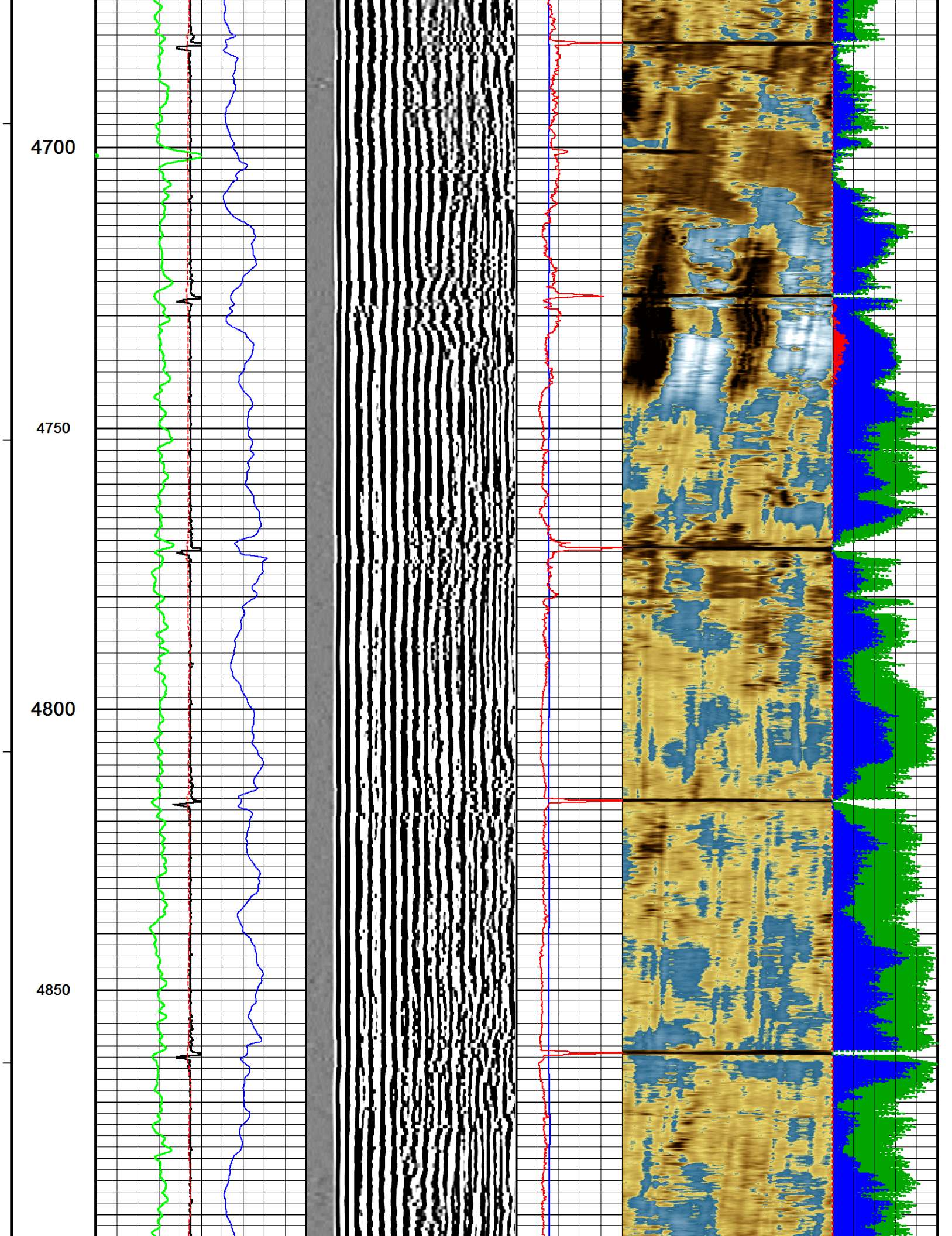
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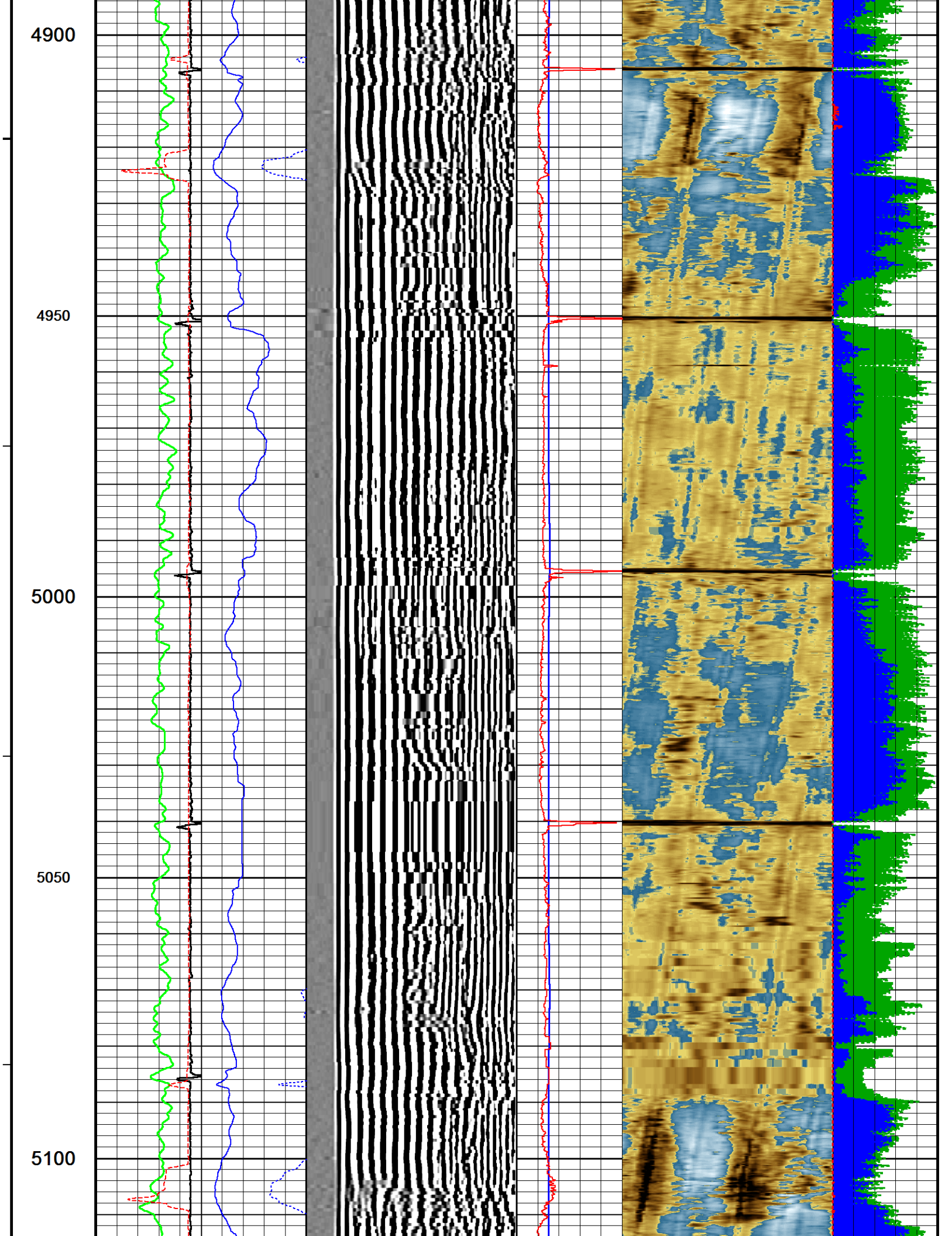
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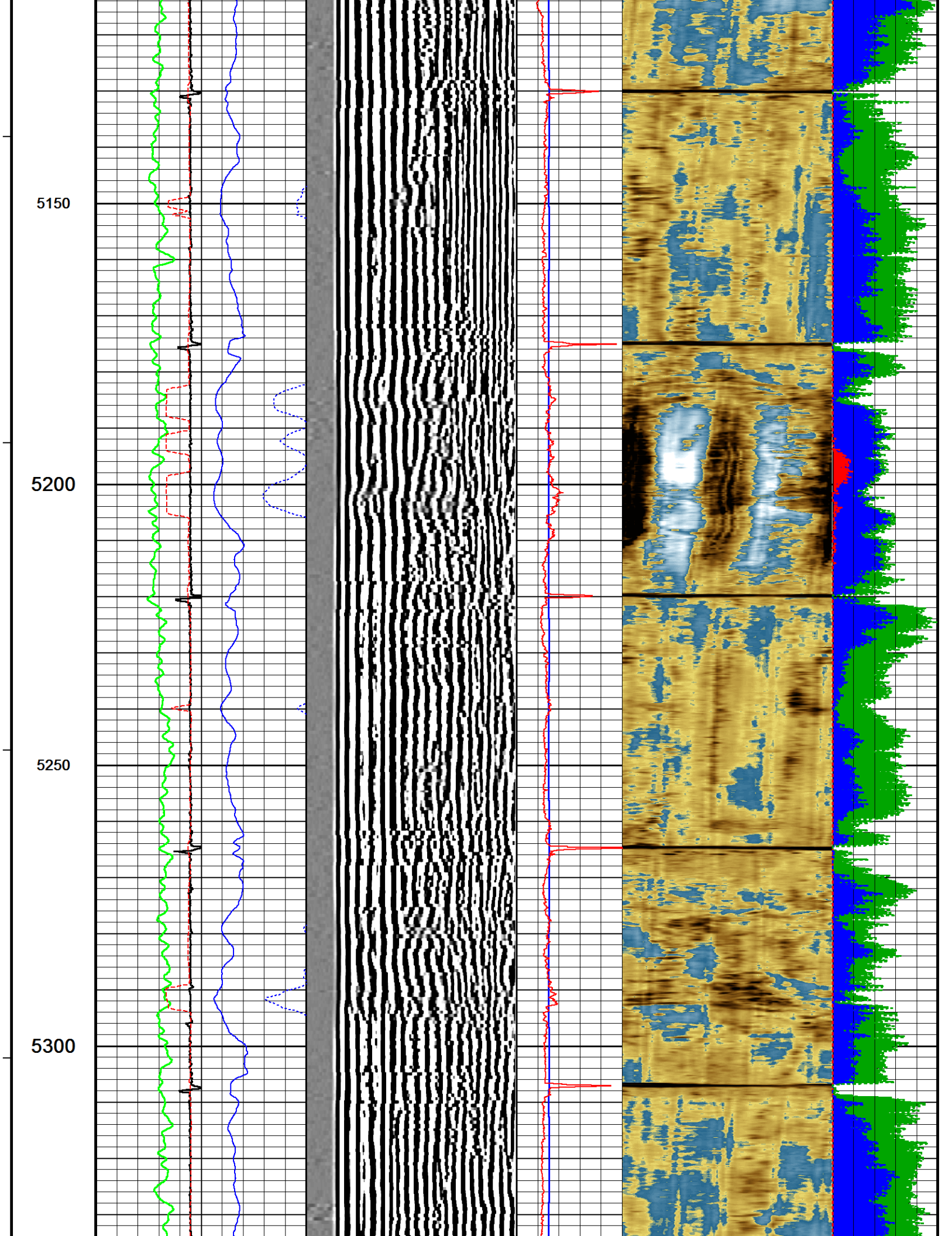
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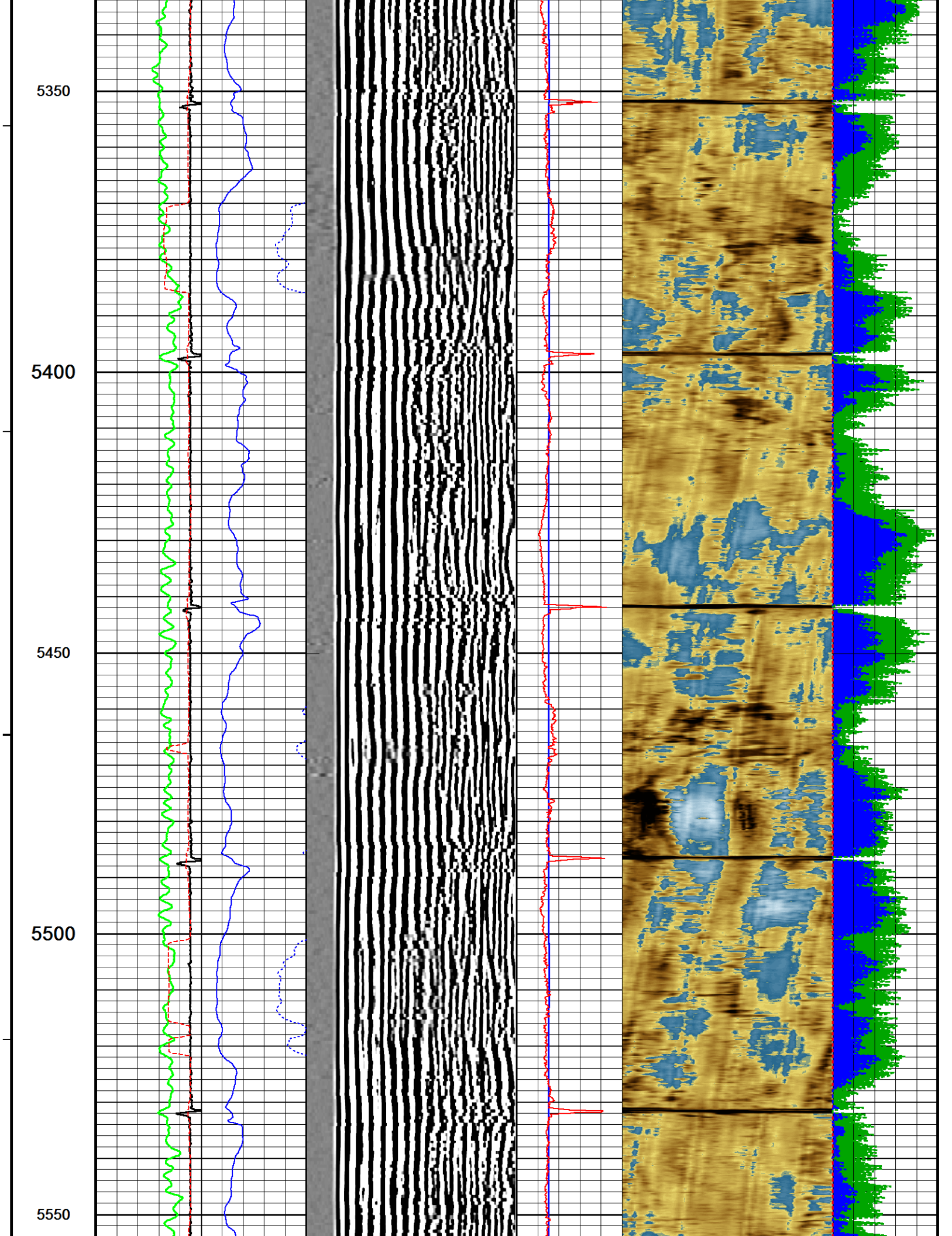
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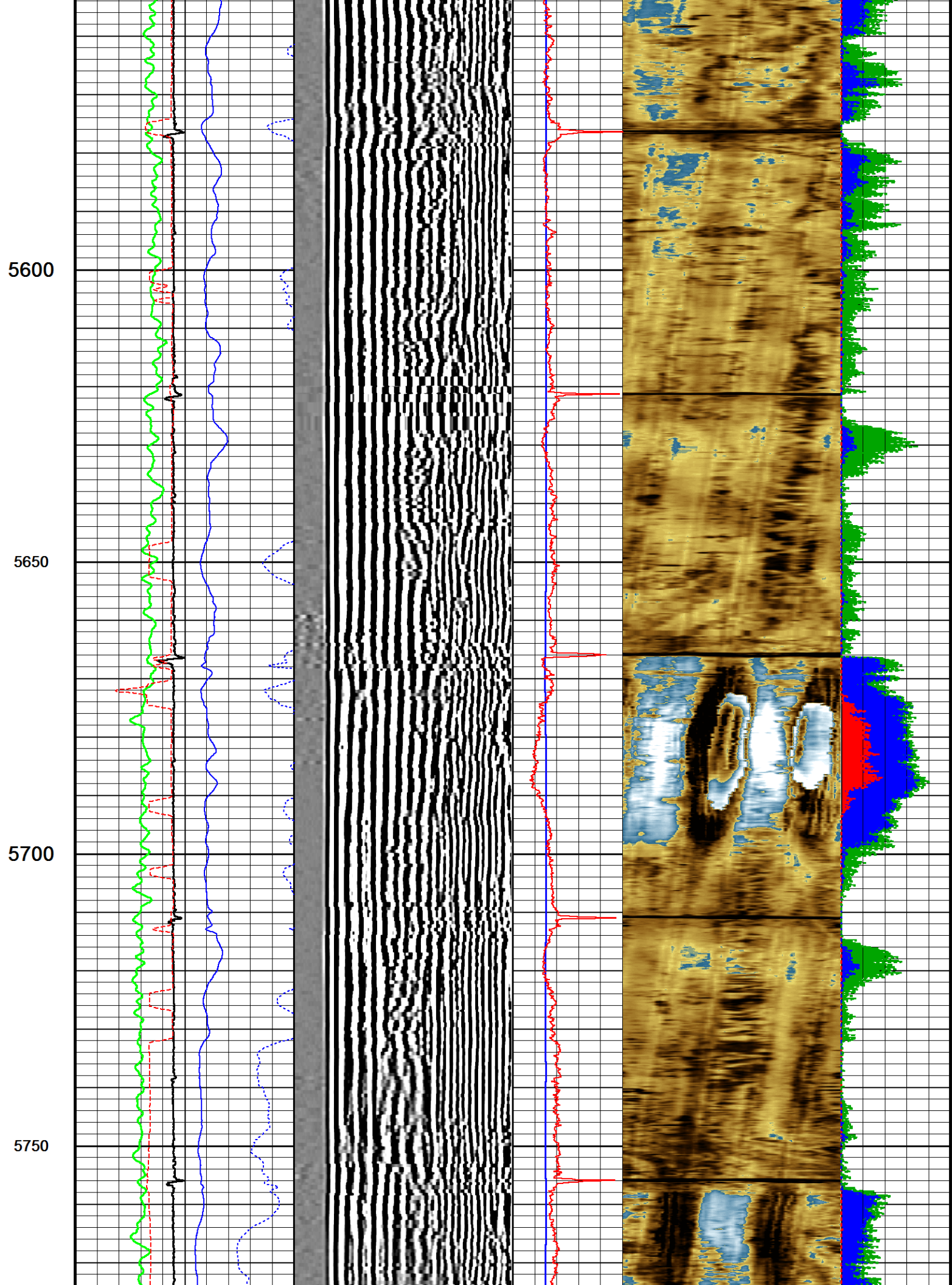


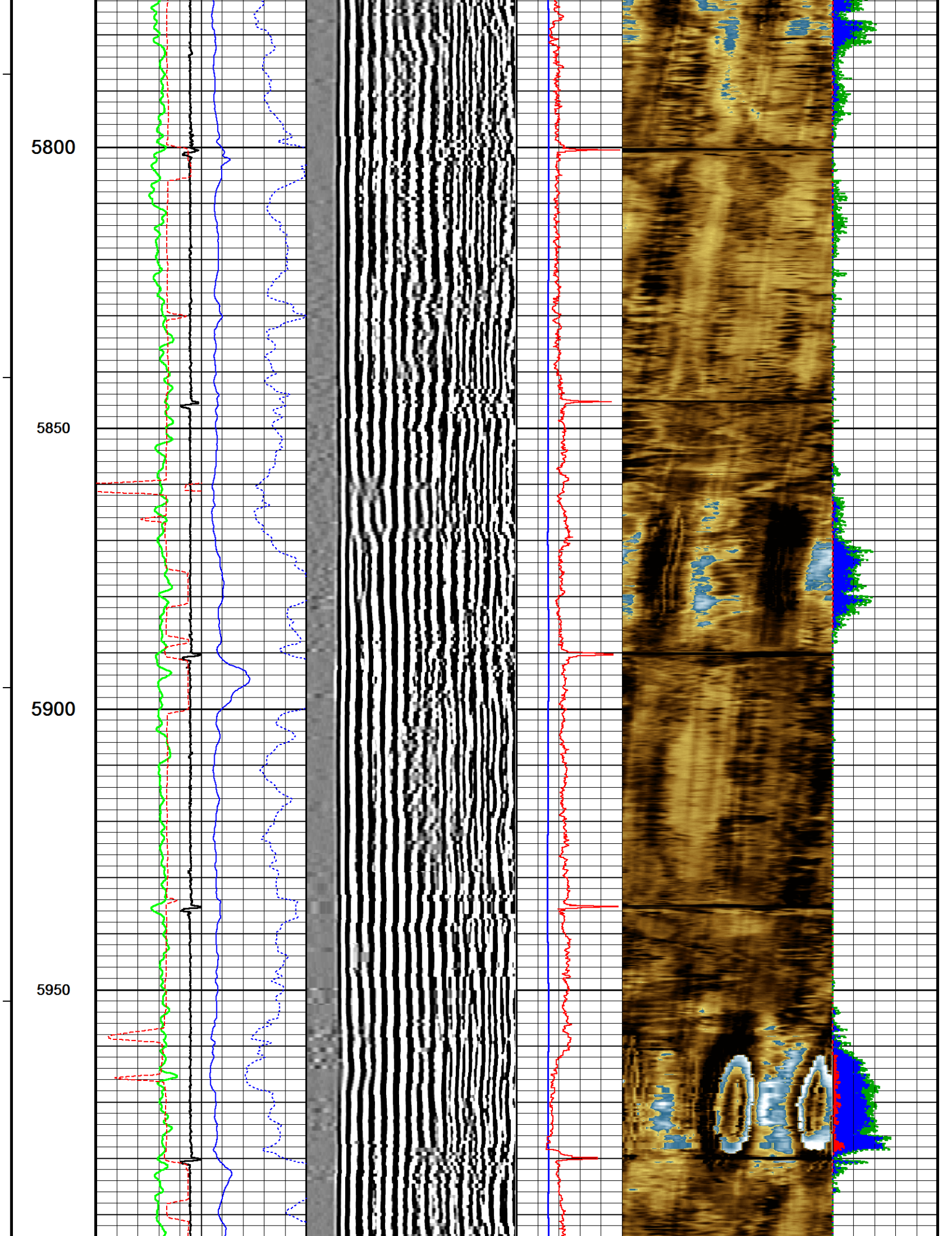


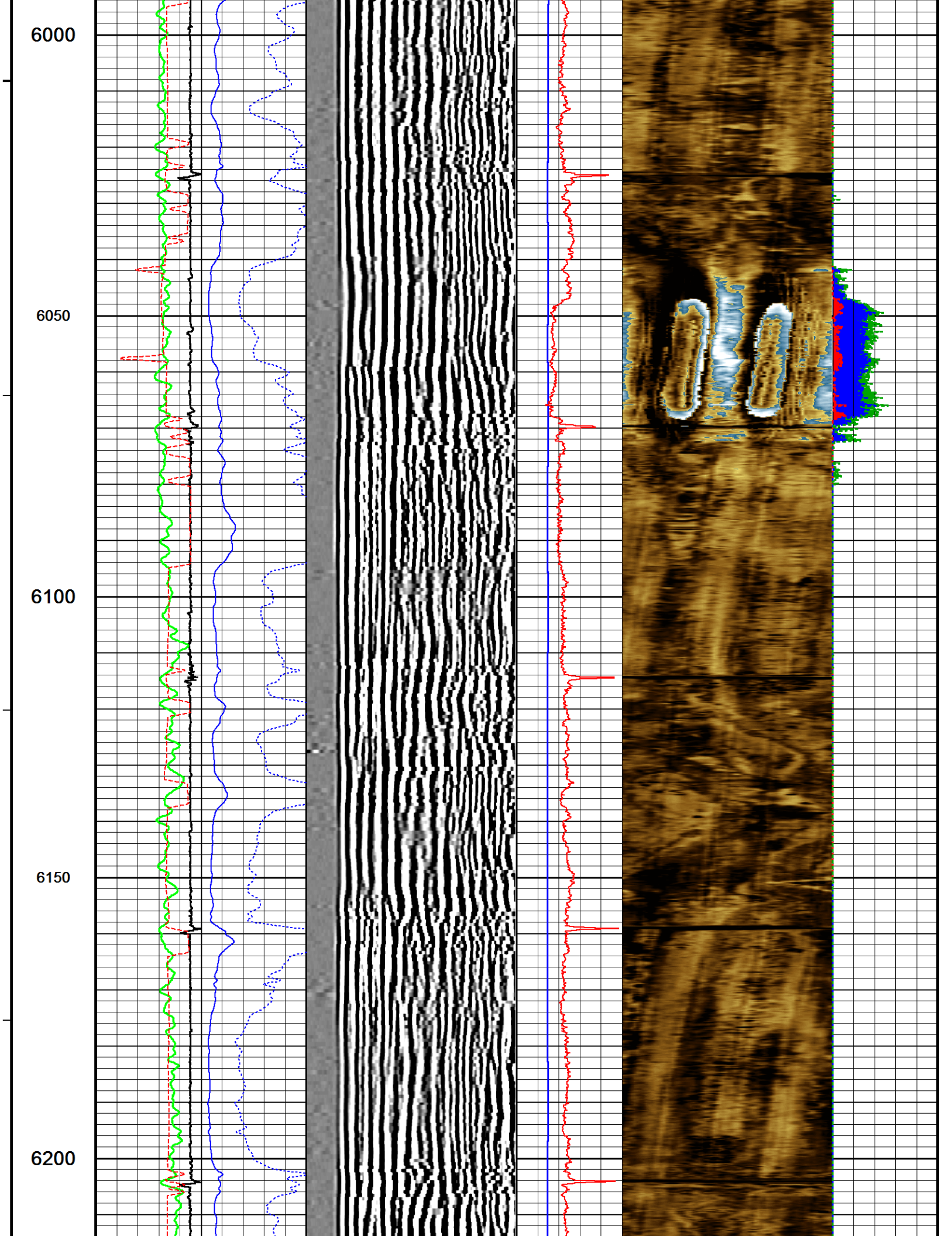


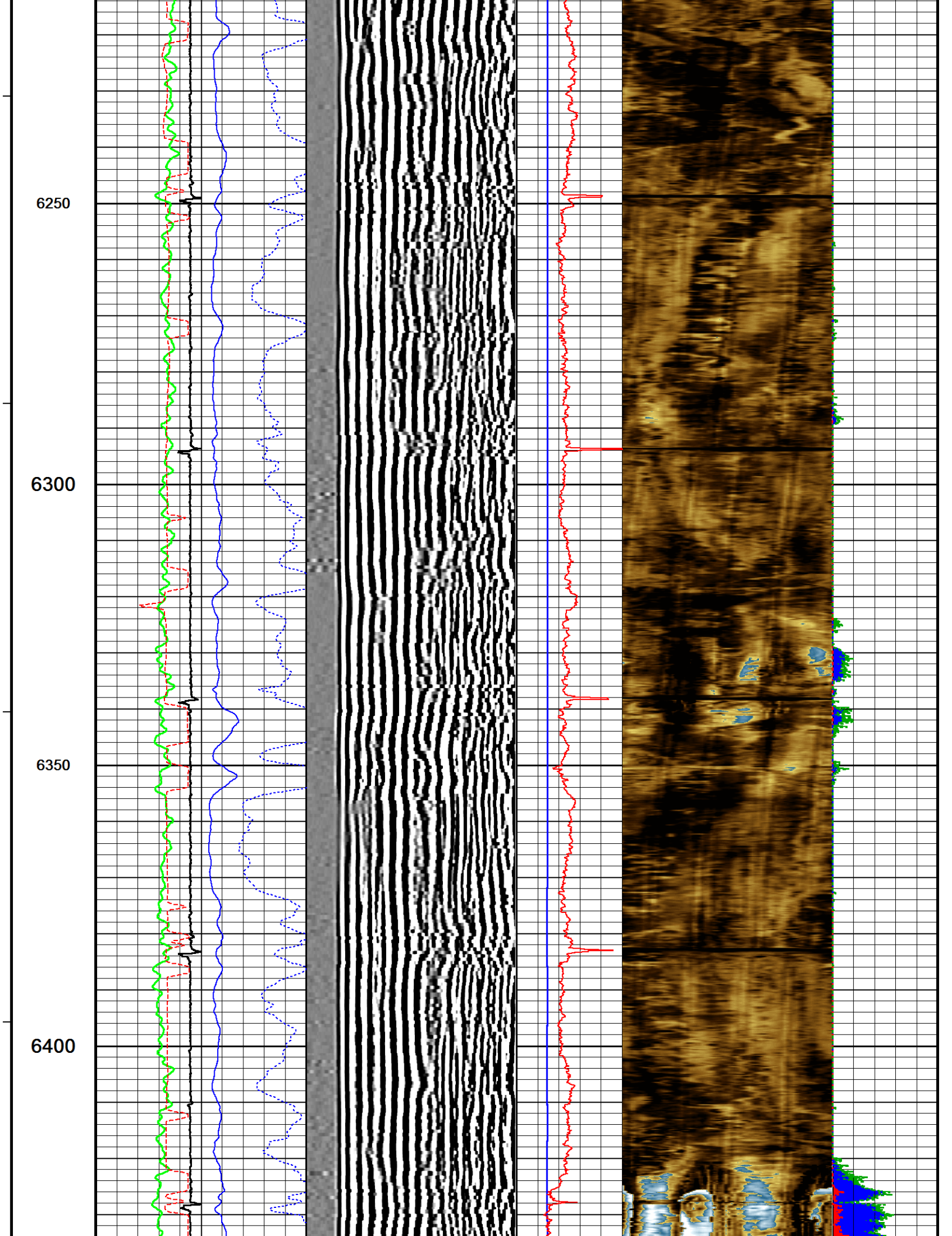


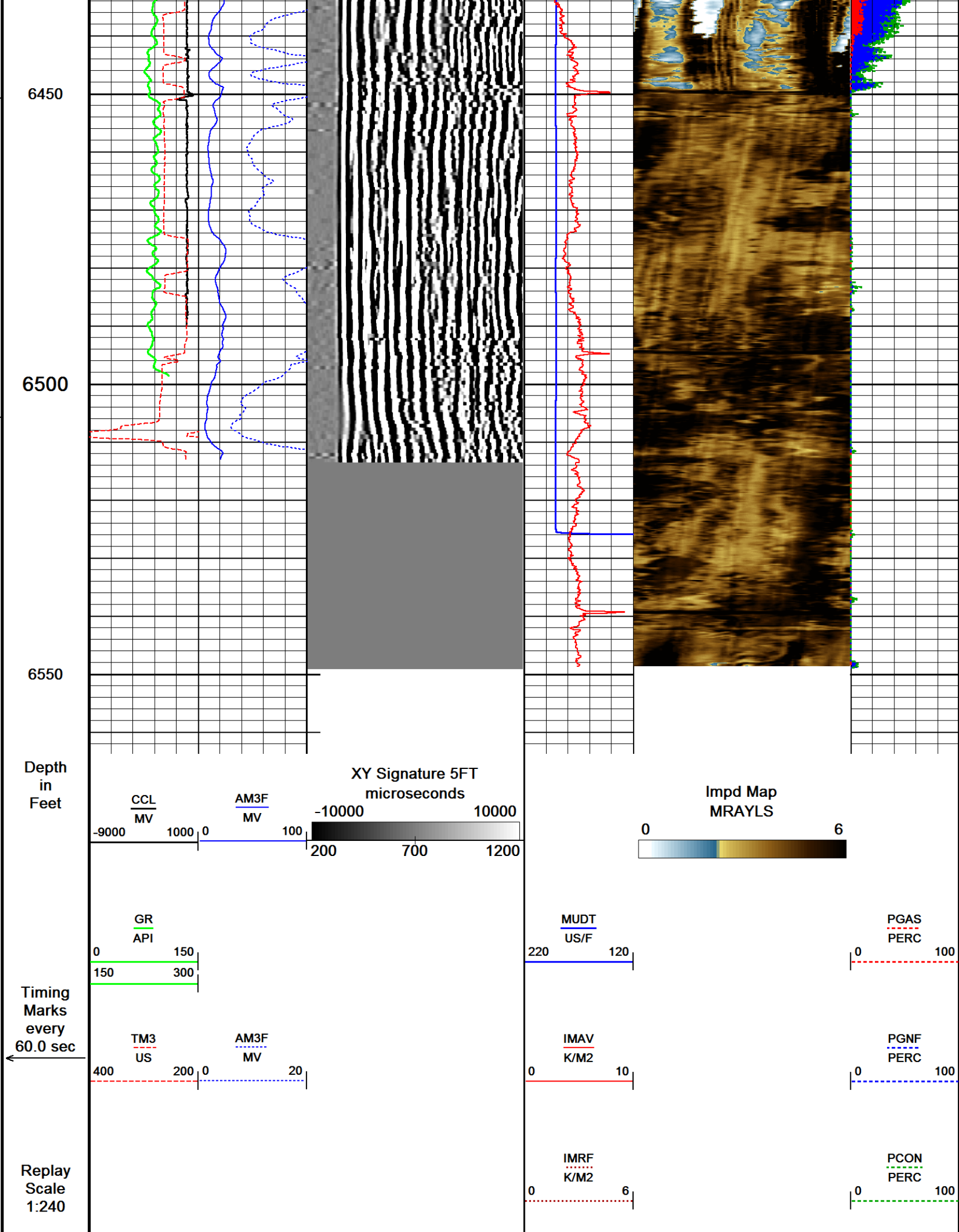














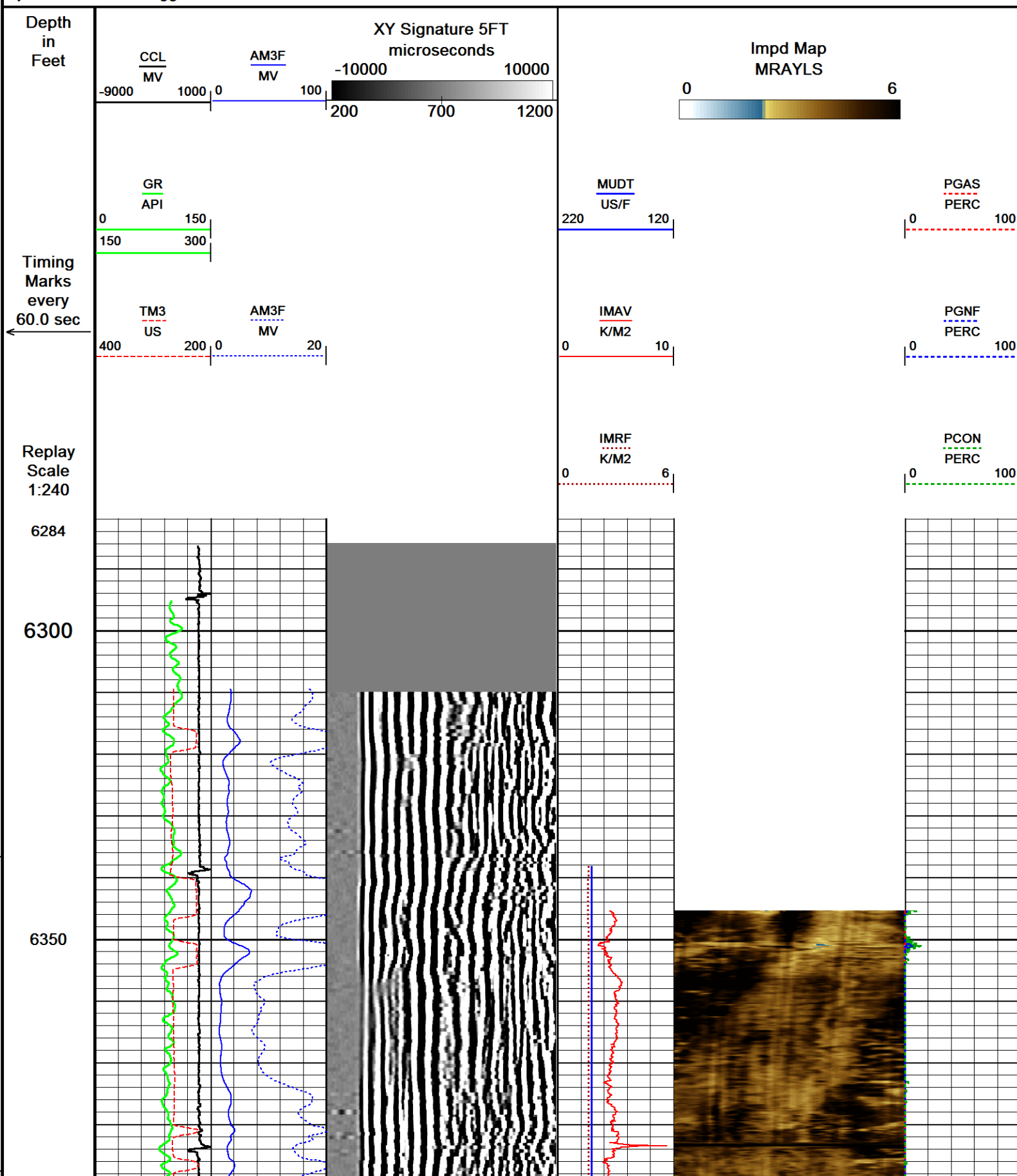
Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 01-FEB-2017 08:16

Filename: C:\Logs\Extraction\MATRIX B-29HN\MATRIX B-29HN REPEAT PASS_RECAL.dta

Recorded on 31-JAN-2017 18:56

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841



6400

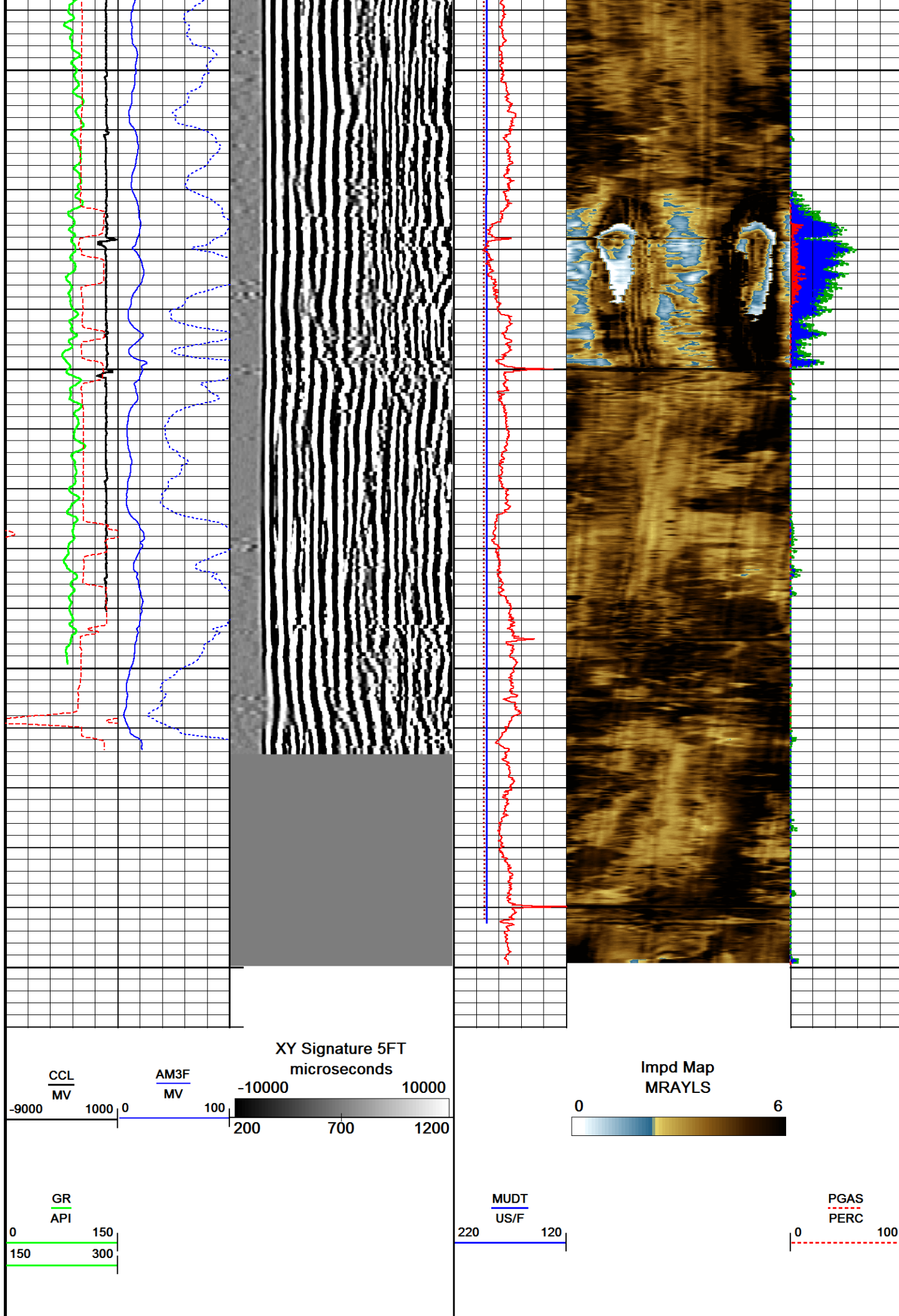
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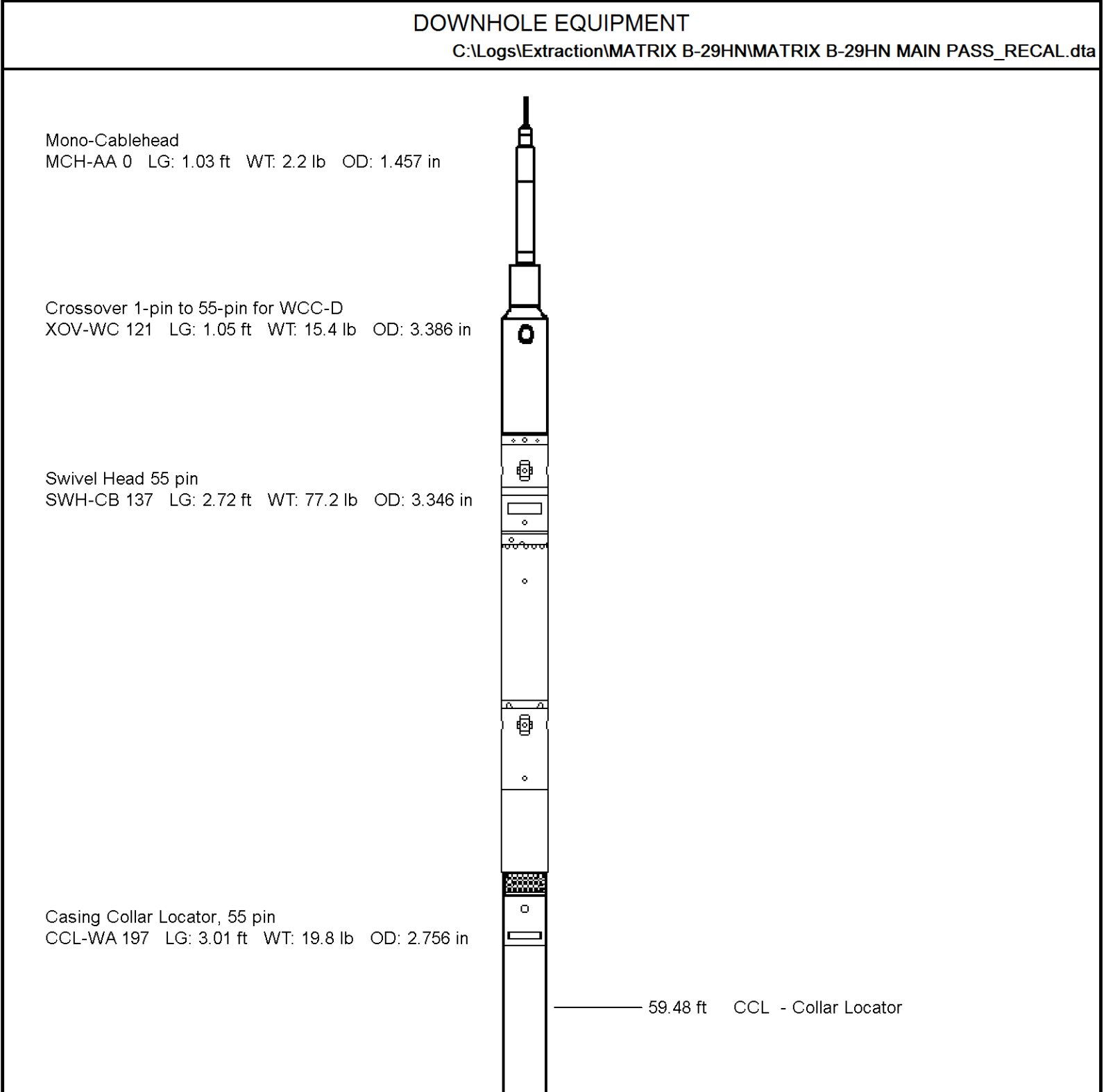
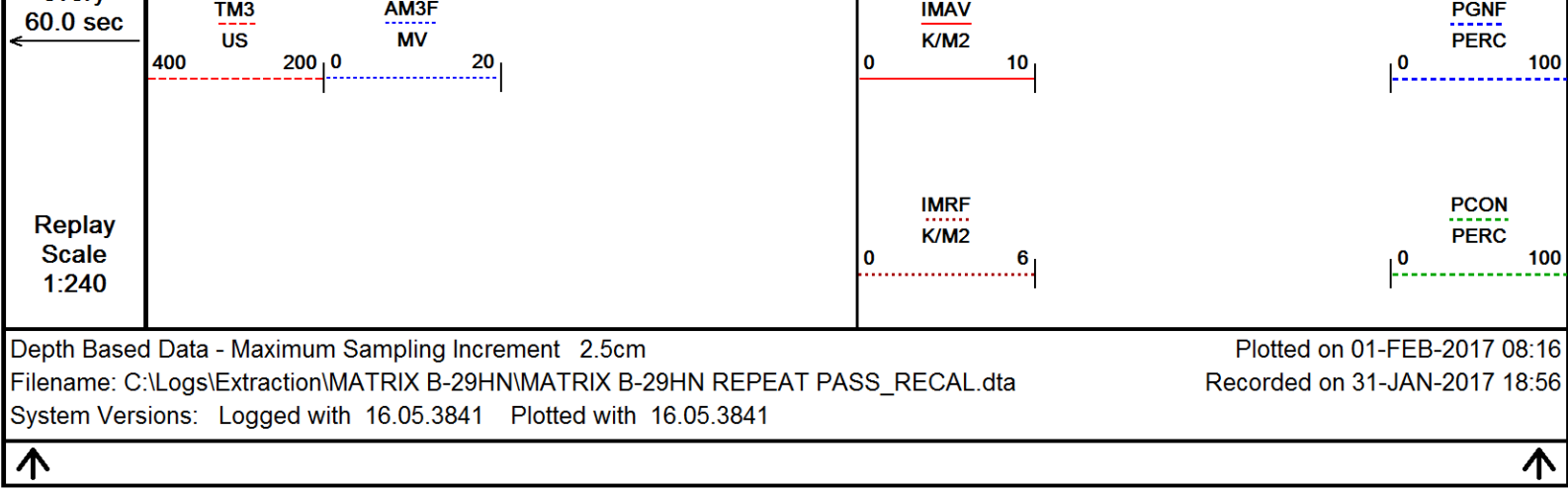
6500

6550

Depth
in
Feet

Timing
Marks
every





Communication Cartridge 55pin 3-3/8in
WCC-DA 123 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

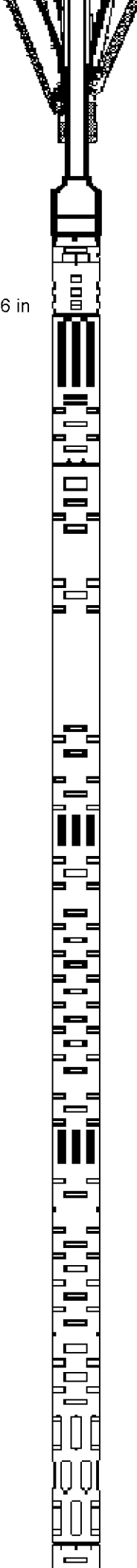
Gamma Ray
UGR-JD 223 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in



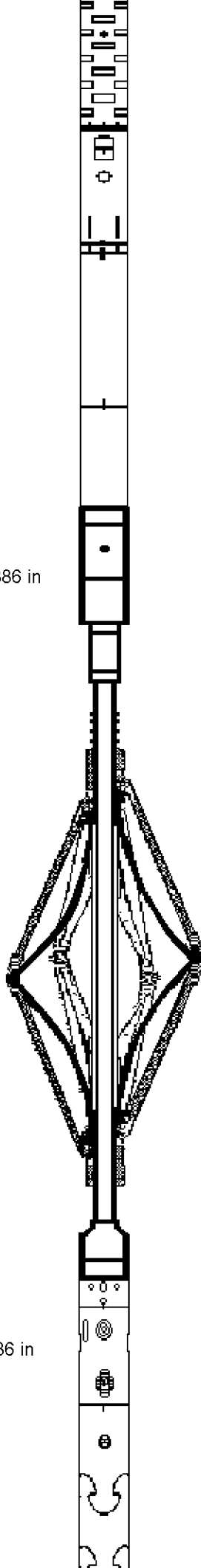
51.39 ft GR - Gamma Ray

Technical drawing of a vertical shaft assembly. The shaft is shown in a side view, with various components and dimensions labeled. The shaft is divided into several sections by horizontal lines. The top section is labeled "6 in". Below this, there are several components, including a bearing, a coupling, and a pulley. The bottom section is labeled "86 in". The shaft is shown with a flange at the bottom, which is connected to a larger component. The drawing is a technical sketch, showing the shaft and its components in a simplified manner.

Cement Bond Tool
CBT-AA 101 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in



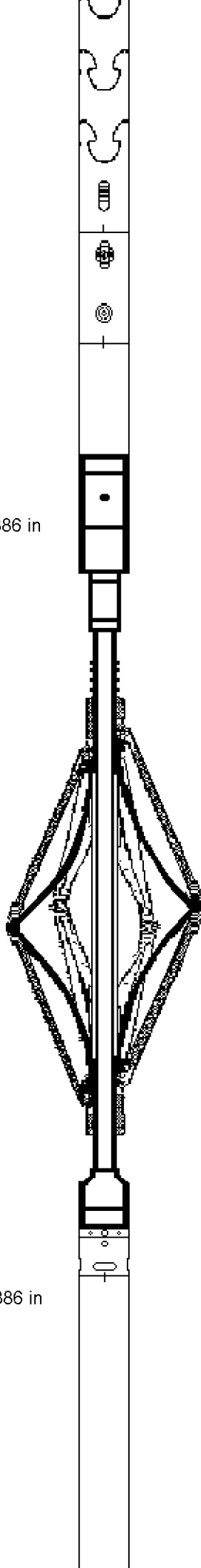
55 pin Roller Centralizer
CEN-XA 203 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in



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



URS Electronics Cartridge

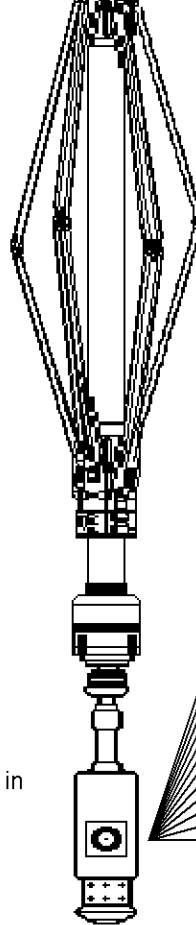
UCC-AA 191 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section

USS-AB 190 LG: 9.65 ft WT: 167.6 lb OD: 3.386 in



—— 7.65 ft MUDT - Mud Slowness



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

- 0.37 ft DIMN - Min Diameter
- 0.37 ft DIAV - Avg Diameter
- 0.37 ft DIMX - Max Diameter
- 0.37 ft OVLI - ID Ovality
- 0.37 ft ECCE - Eccentering
- 0.37 ft IMAV - Avg Impedance
- 0.37 ft THMN - Min Thickness
- 0.37 ft THAV - Avg Thickness
- 0.37 ft THMX - Max Thickness
- 0.37 ft AMMP - Ampl Map
- 0.37 ft IMMP - Impd Map
- 0.37 ft TKMP - Thickness Map

Tool Zero (0.00ft from bottom)

Total Length: 65.13 ft Weight: 1122.2 lb All measurements relative to tool zero.

SHOP AND FIELD CALIBRATIONS

C:\Logs\Extraction\MATRIX B-29HN\MATRIX B-29HN MAIN PASS_RECAL.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 101

Field calibration on 00-JAN-1988 00:00

Cement Bond Tool Amplitude Field Calibration

Tool Type CBT-AA Serial No 101
 Free Pipe Depth

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	2.40	0.00
	Free Pipe	72.00	644.54

AMP 5 FT	100 % Bond	1.60	0.00
	Free Pipe	48.00	408.30

CBT Constants CBT-AA 101

Last Edited on 31-JAN-2017 18:43

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 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 31-JAN-2017 18:43

*** 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	4.50
ZMud Cal Area Ratio	3.39


** 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	12000.00	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

COMPANY	EXTRACTION OIL & GAS				
WELL	MATRIX B-29HN				
FIELD	GREELEY				
PROVINCE/COUNTY	WELD				
COUNTRY/STATE	USA / COLORADO				
Elevation Kelly Bushing	4916	feet	Bottom Log Interval	6550.00	feet
Elevation Drill Floor	4916	feet	Depth Driller	12000.00	feet
Elevation Ground Level	4888	feet	Depth Logger	6550.00	feet
<div>  <div> SECUREVIEW ULTRAVIEW/BONDVIEW CEMENT ANALYSIS </div> </div>					