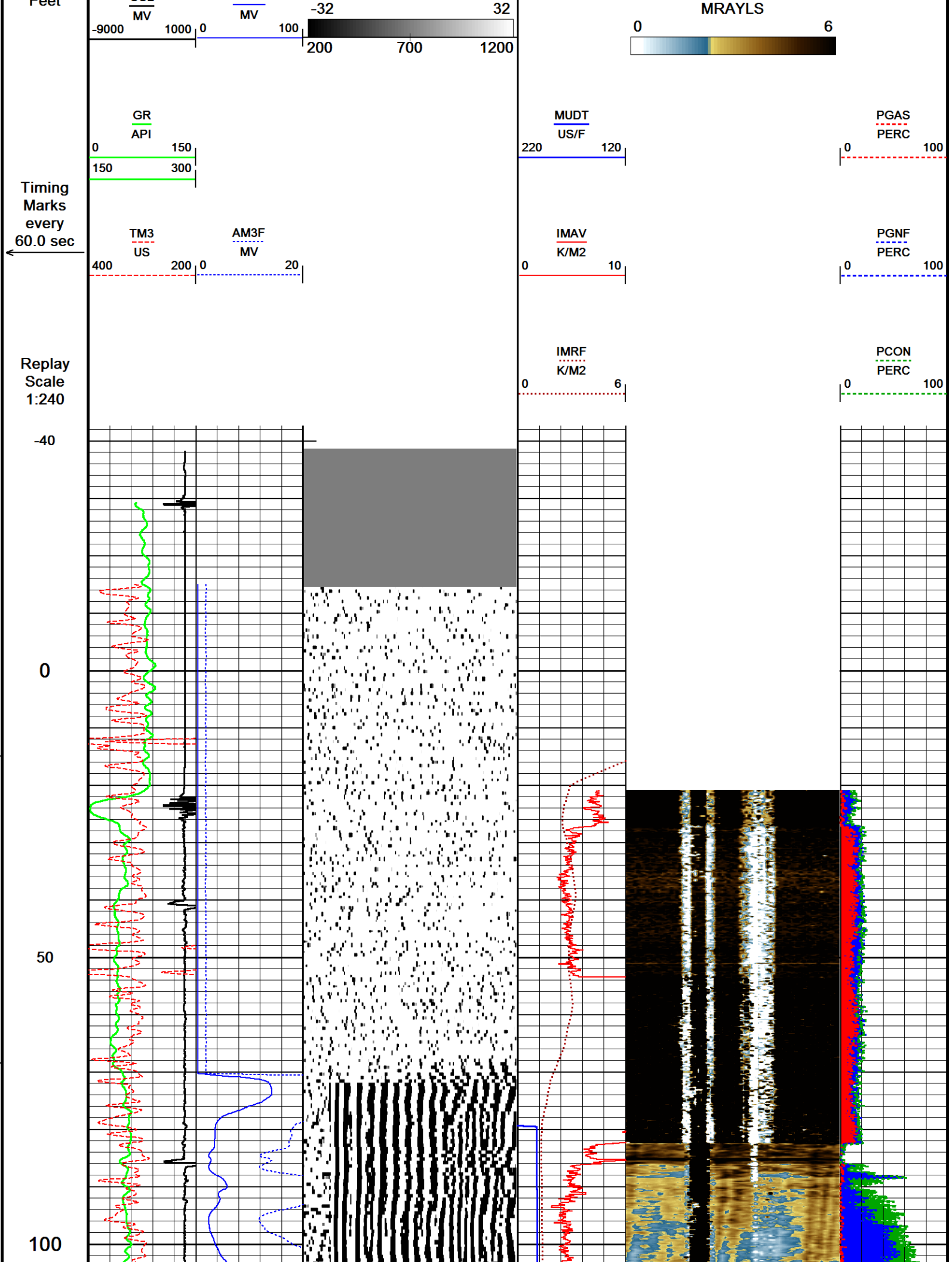
 <b>Weatherford®</b>			<b>SECUREVIEW</b> <b>ULTRAVIEW/BONDVIEW</b> <b>CEMENT ANALYSIS</b>			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION			EXTRACTION OIL & GAS VARRA 7 WATTENBERG WELD USA / COLORADO			
SEC 5	TWP 6N	RGE 67W	Other Services			
Latitude Longitude API Number		05 123 39987 00				
Permanent Datum GROUND LEVEL, Elevation 4899 feet Log Measured From KB, 25 feet above Permanent Datum Drilling Measured From KB @ 25'				Elevations: KB 4924.00 DF 4924.00 GL 4899.00		
Date	04-DEC-2016	PERFORATION RECORD				
Run Number	ONE	Shot	Number	Depth From	Depth To	
Service Order	168095812	Density	of Shots	feet	feet	
Type Log	URS/URS					
Depth Driller	17100.00	feet				
Depth Logger	6600.00	feet				
Top Log Interval	0.00	feet				
Bottom Log Interval	6600.00	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	9.625	36.00	0.00	1571.00	
Unit	14338	5.500	20.00	0.00	17100.00	
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
SURFACE			9.625	0.00	1571.00	36.00
PRODUCTION			5.500	0.00	17100.00	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.

<div>↓</div> <b>MAIN PASS</b> <div>↓</div>		
Depth Based Data - Maximum Sampling Increment 2.5cm Filename: C:\Logs\Extraction\VARRA 7\VARRA 7 MAIN PASS.dta System Versions: Logged with 16.05.3841 Plotted with 16.05.3841		
Plotted on 04-DEC-2016 20:01	Recorded on 04-DEC-2016 07:07	
Depth in Feet	XY Signature 5FT microseconds	Impd Map

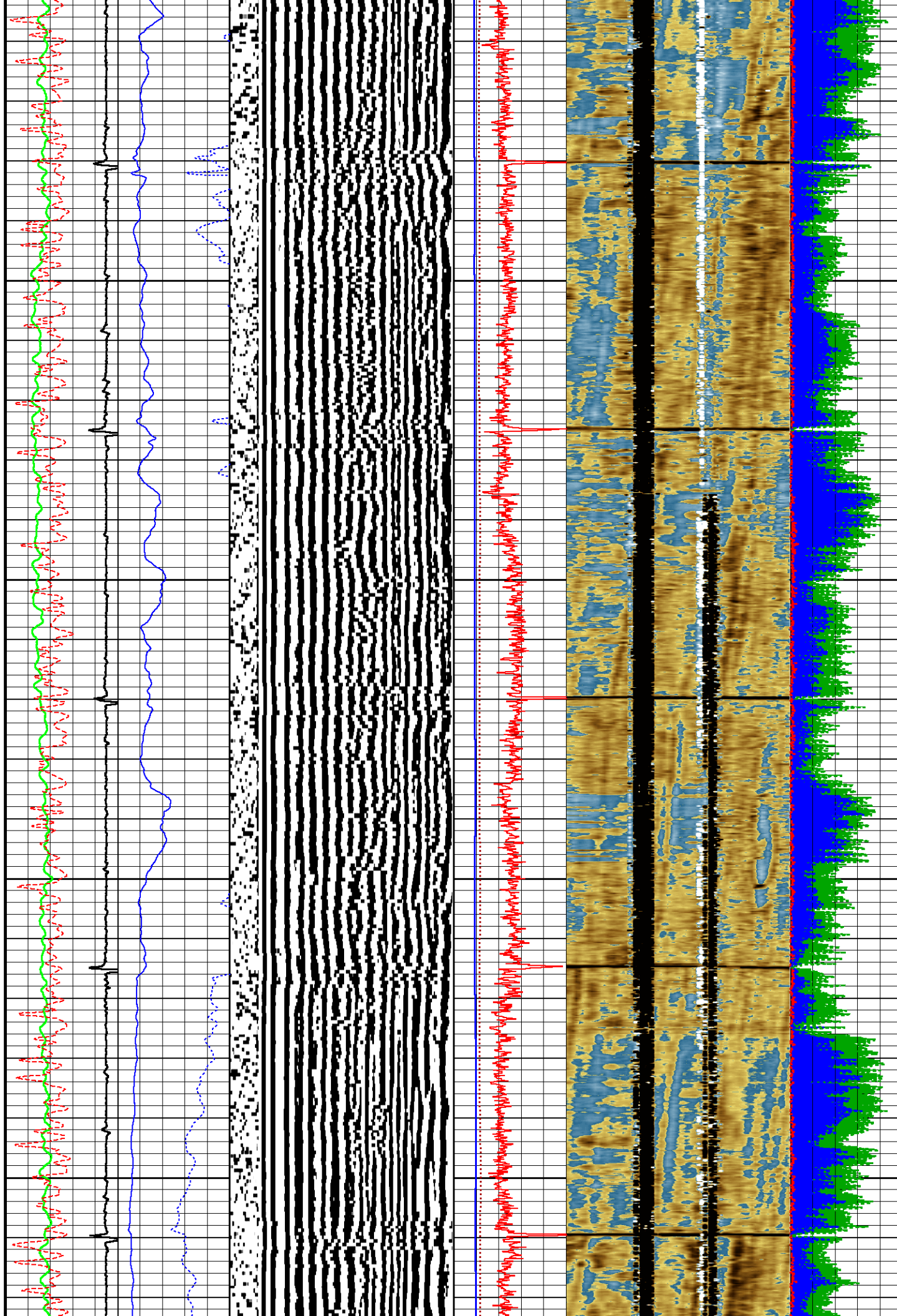


150

200

250

300

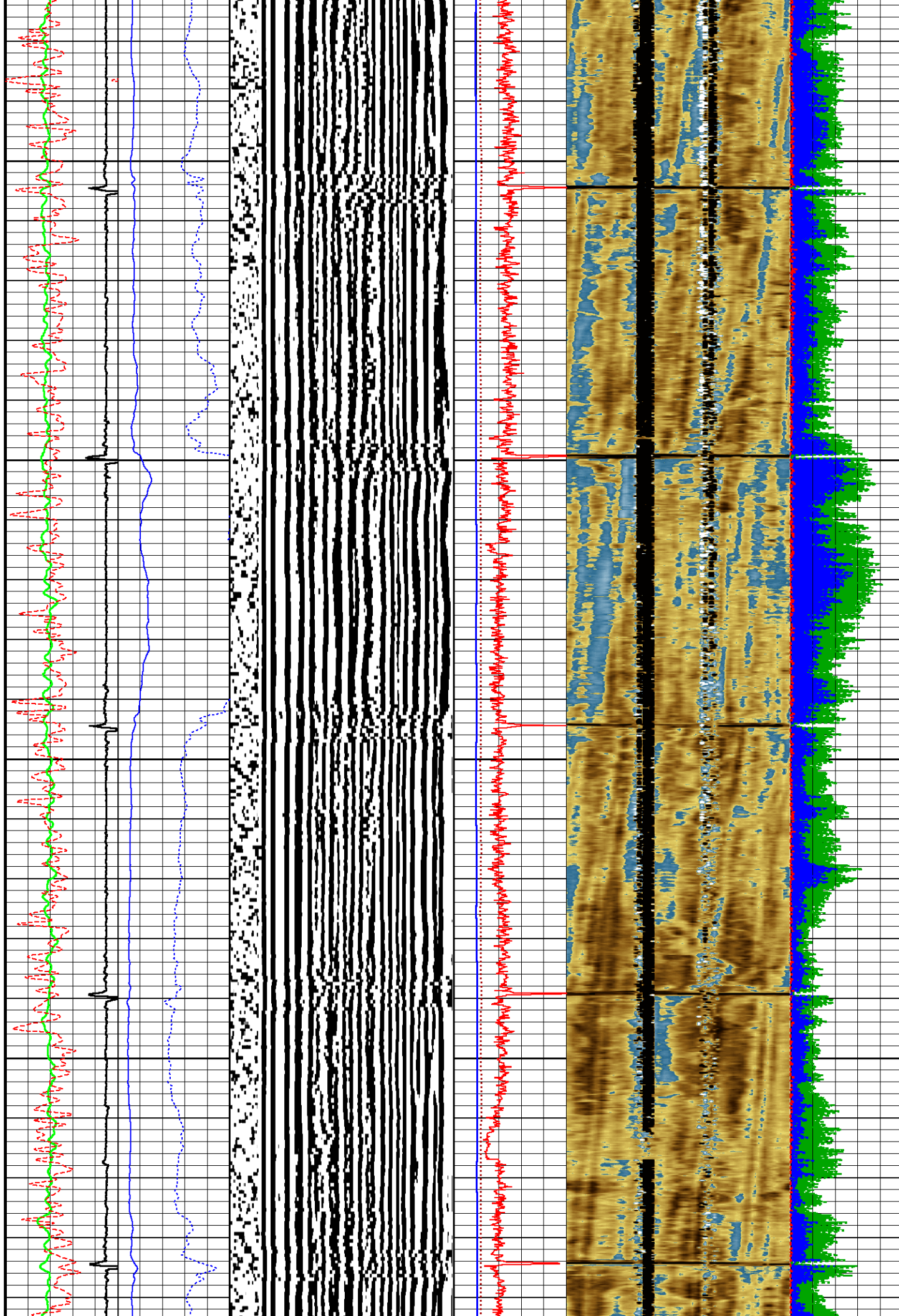


350

400

450

500



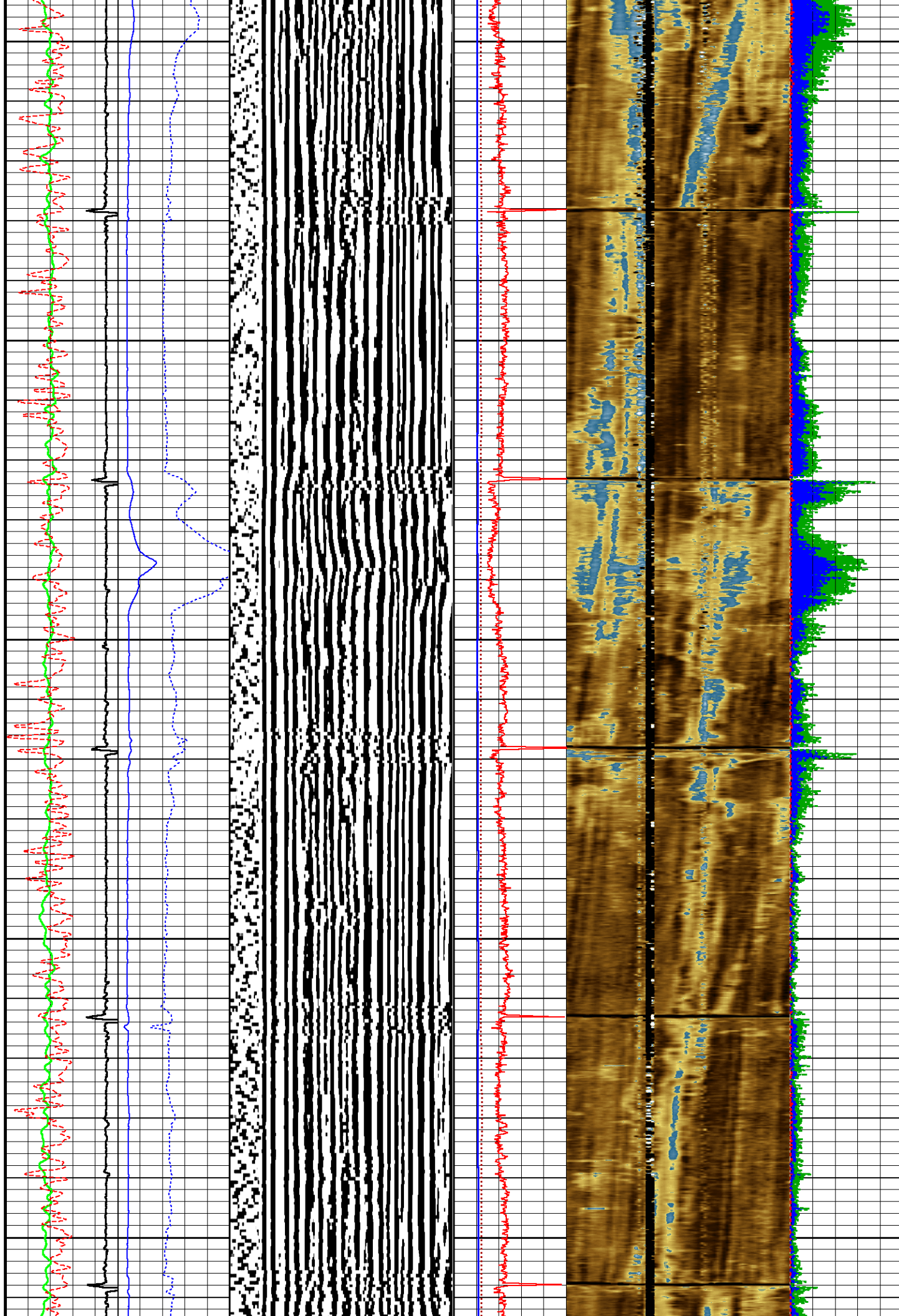
550

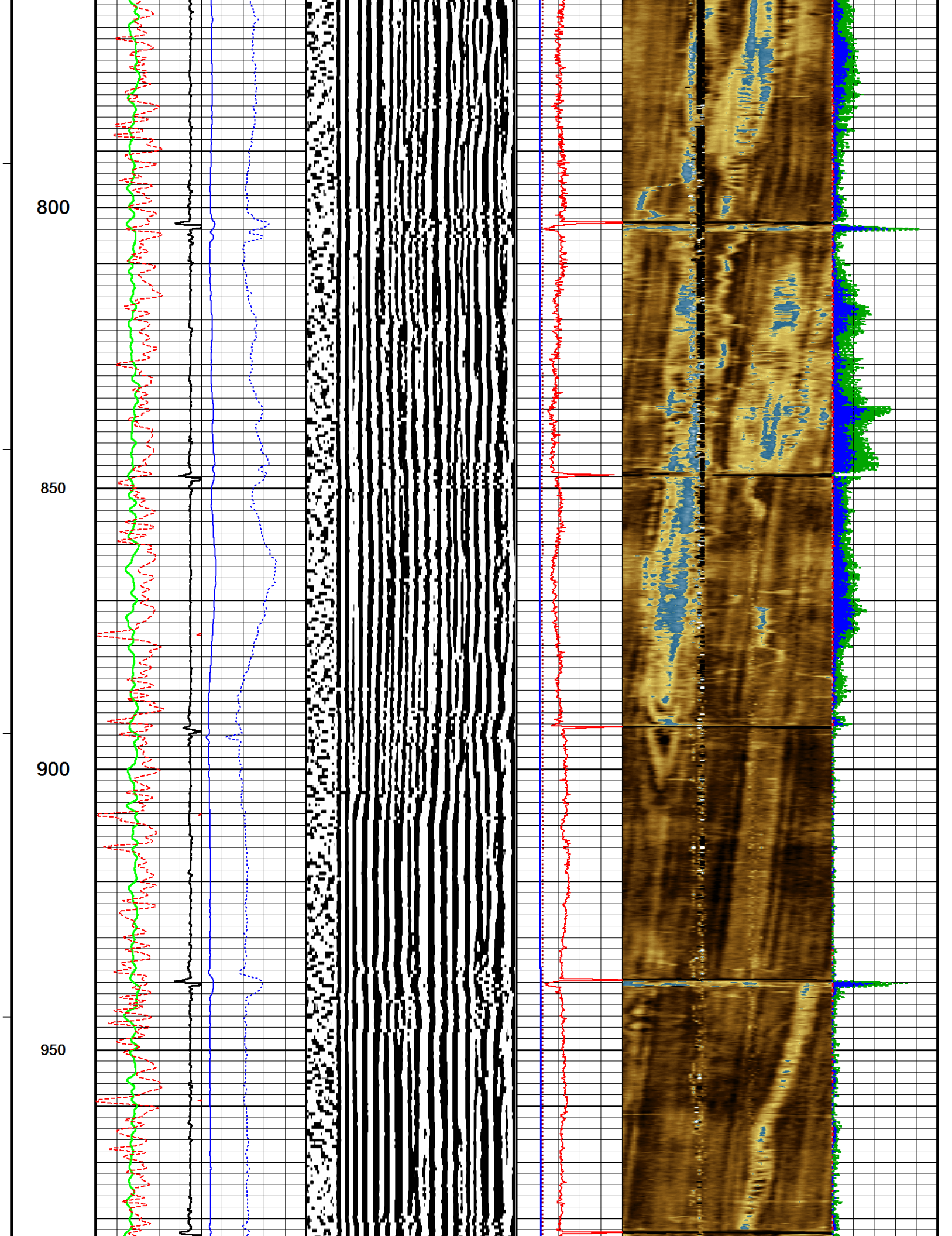
600

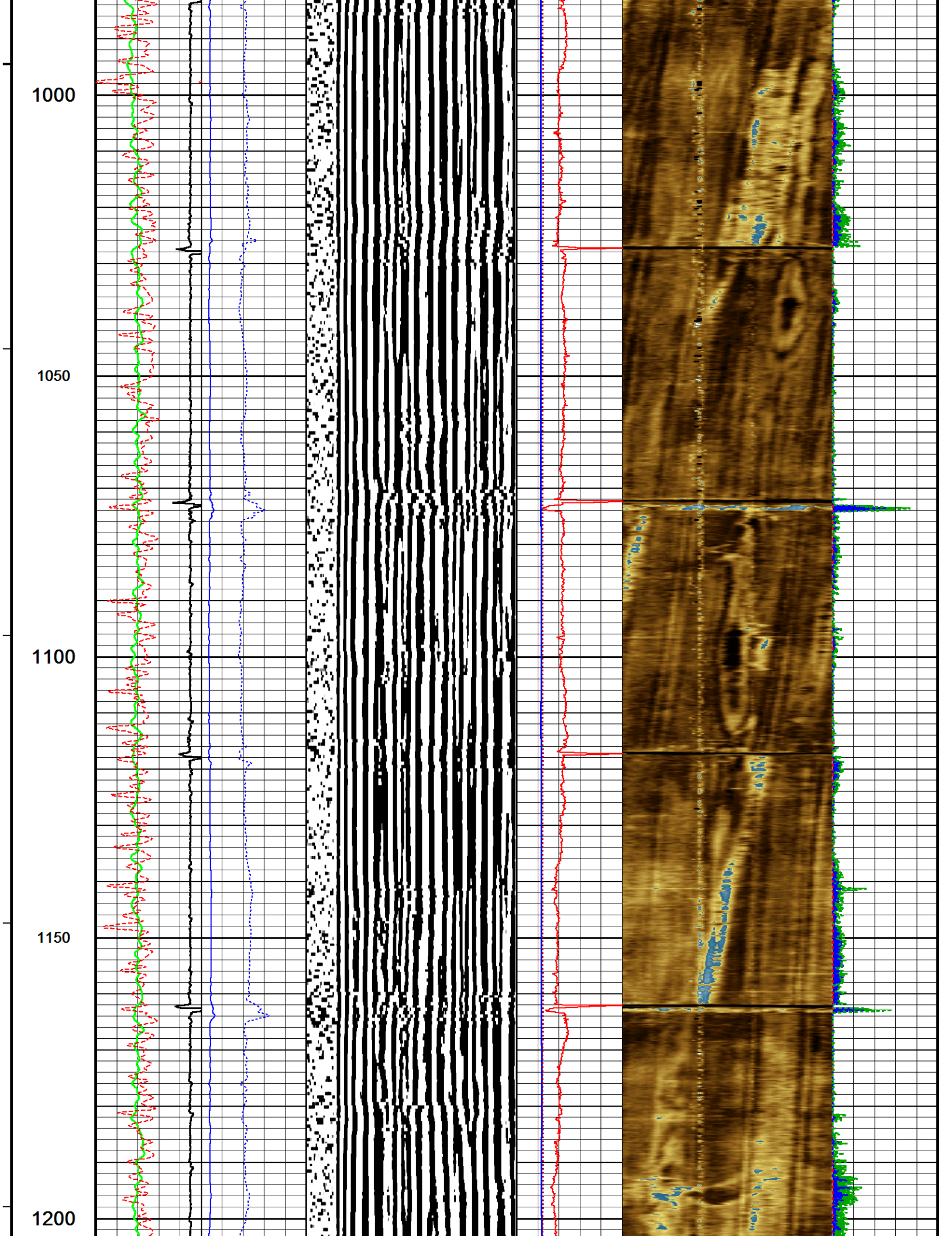
650

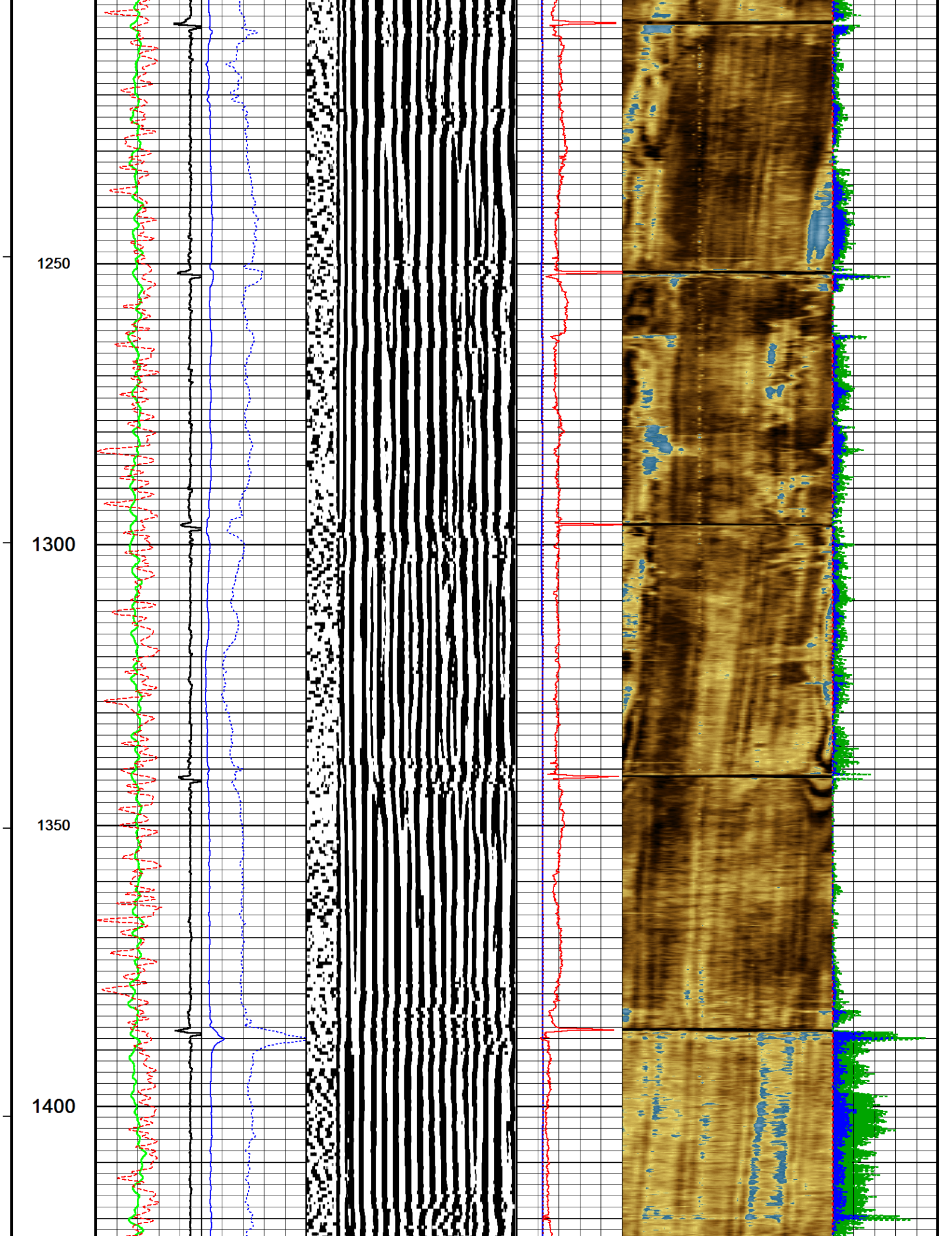
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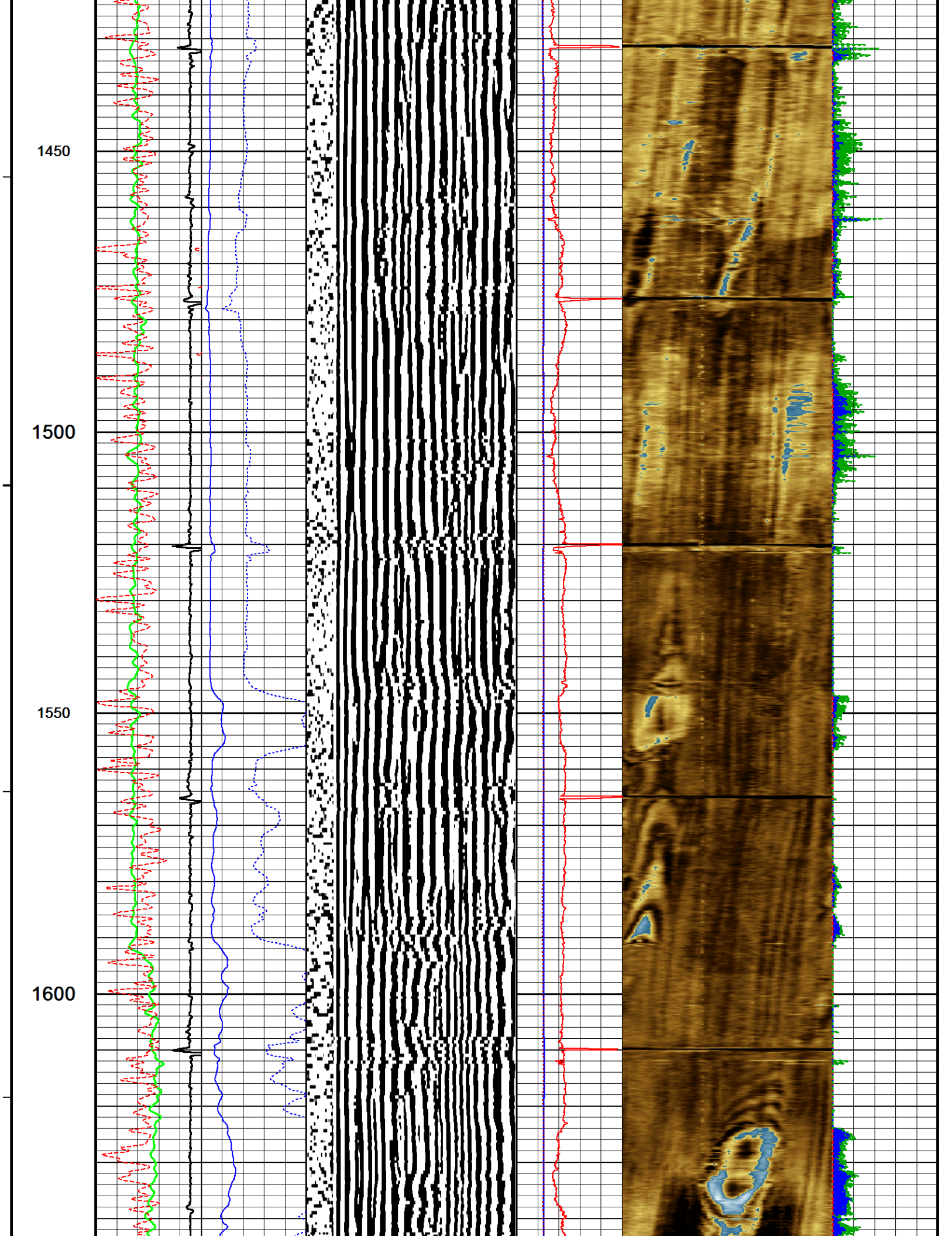
750

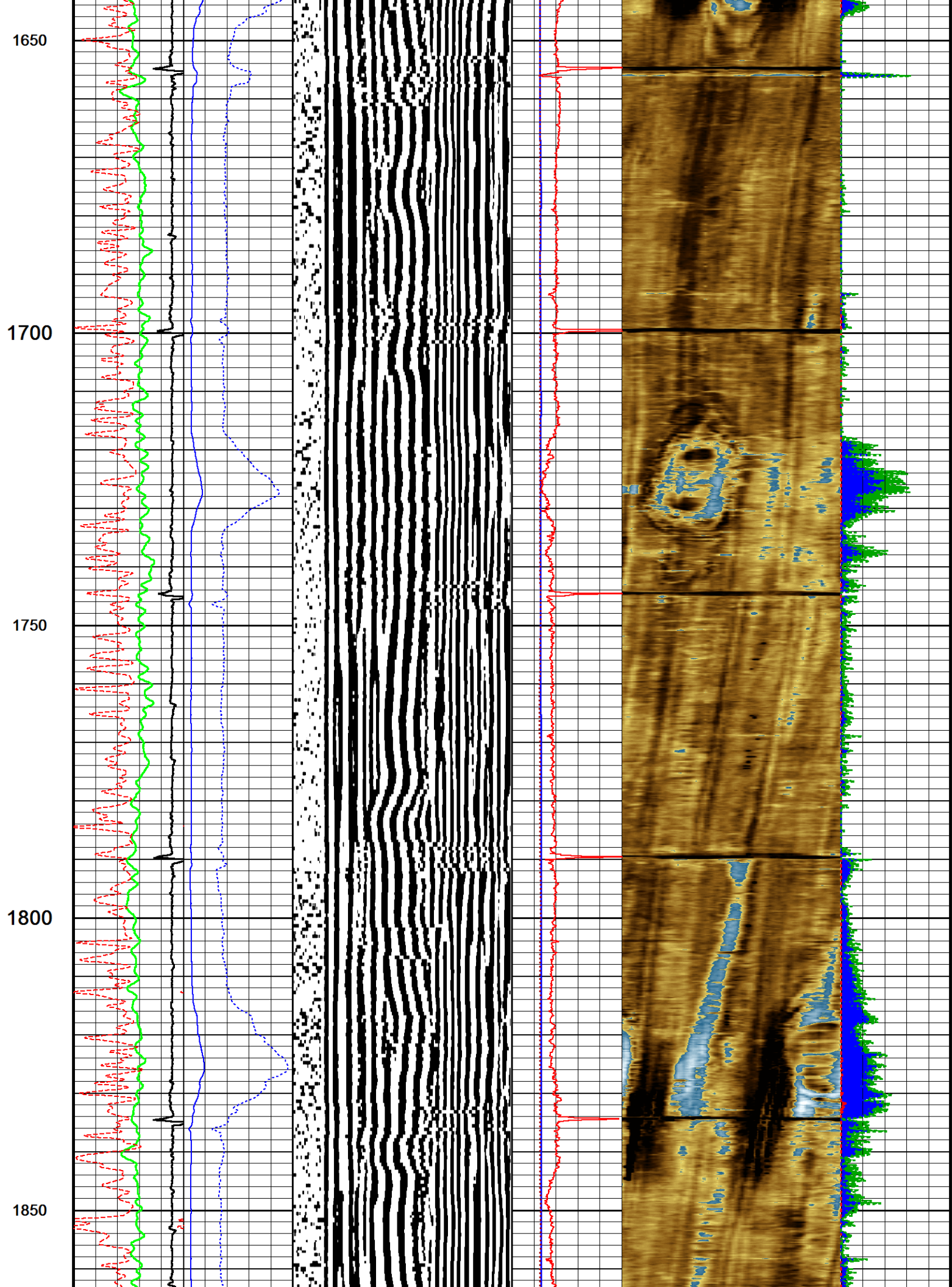


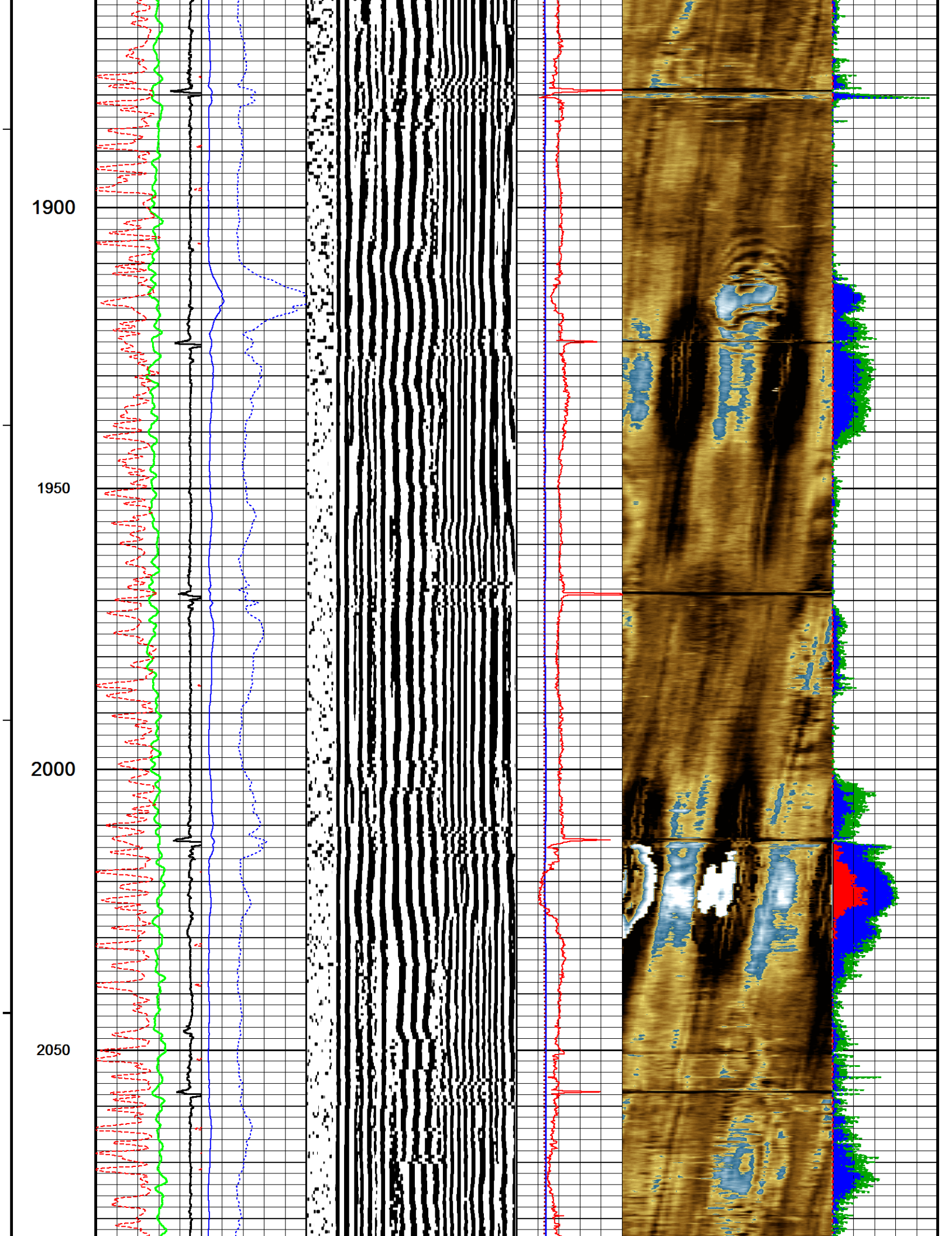


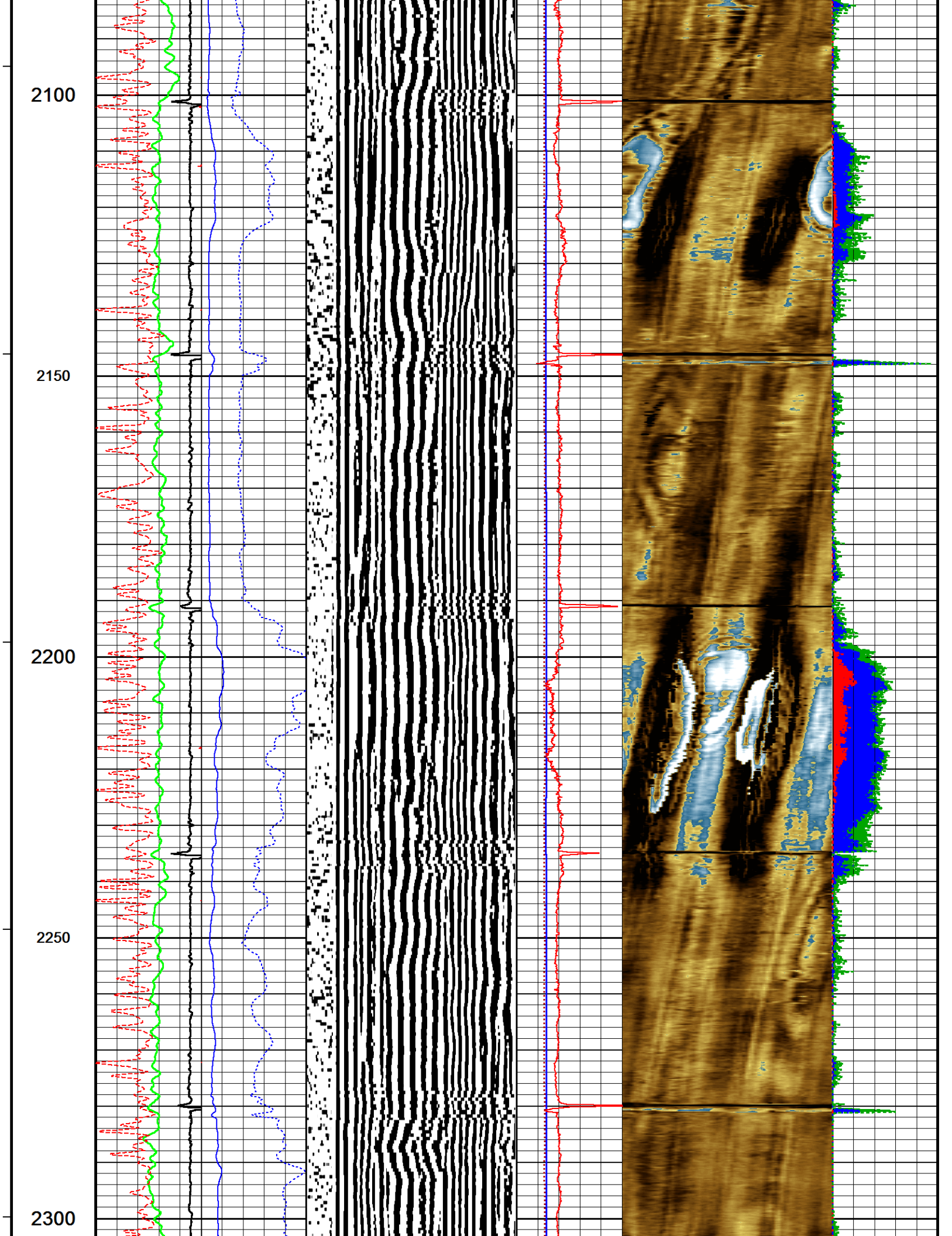










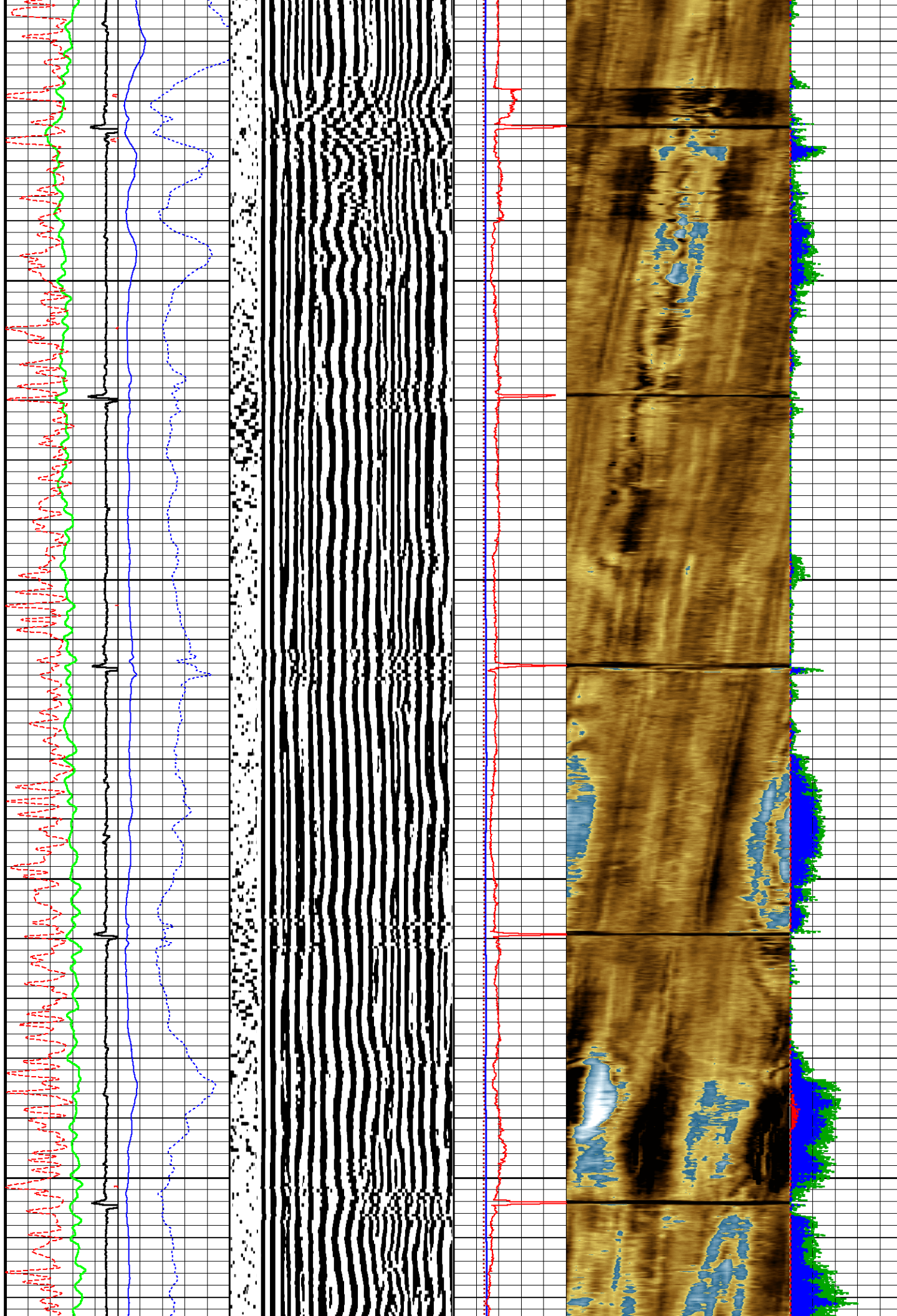


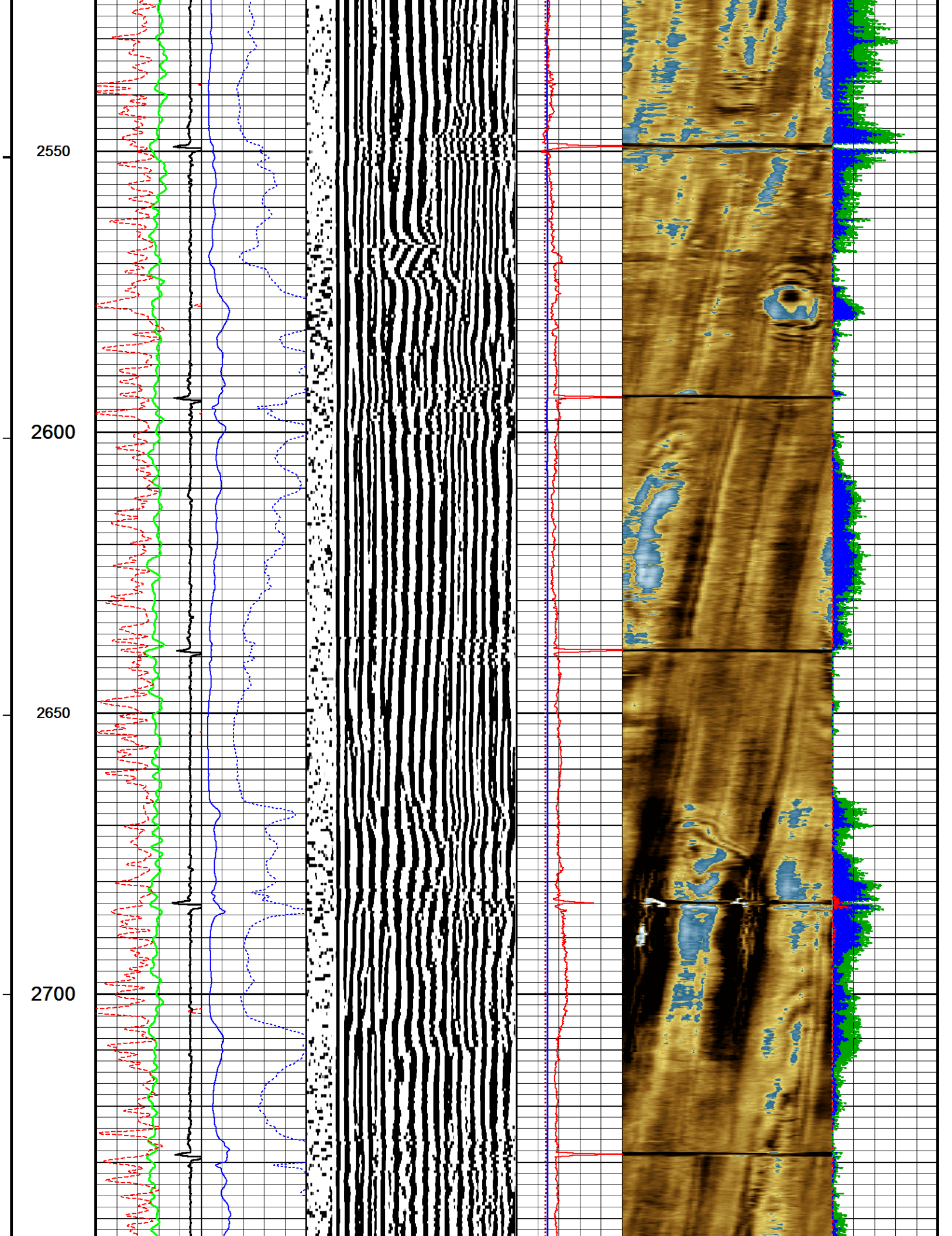
2350

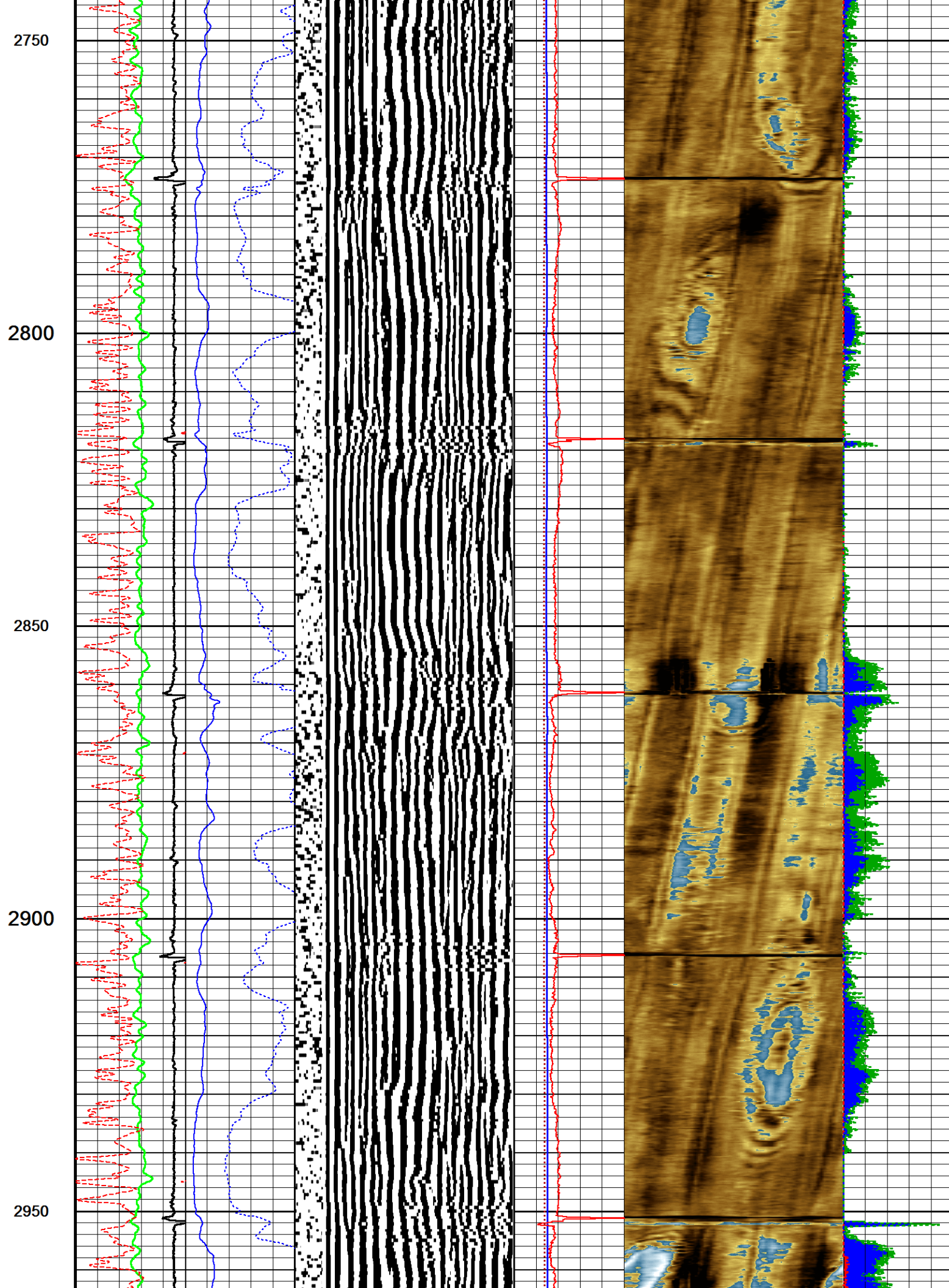
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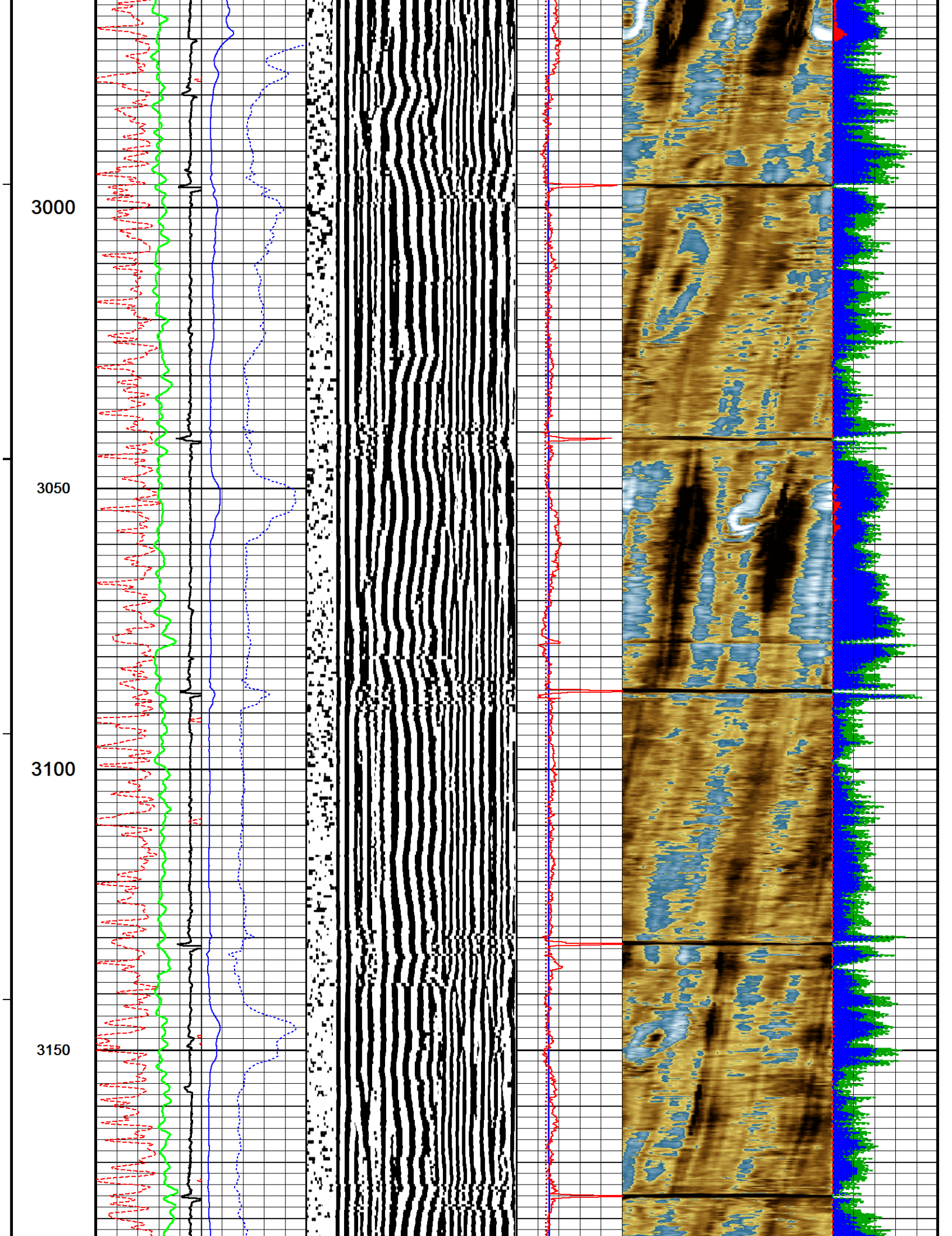
2450

2500









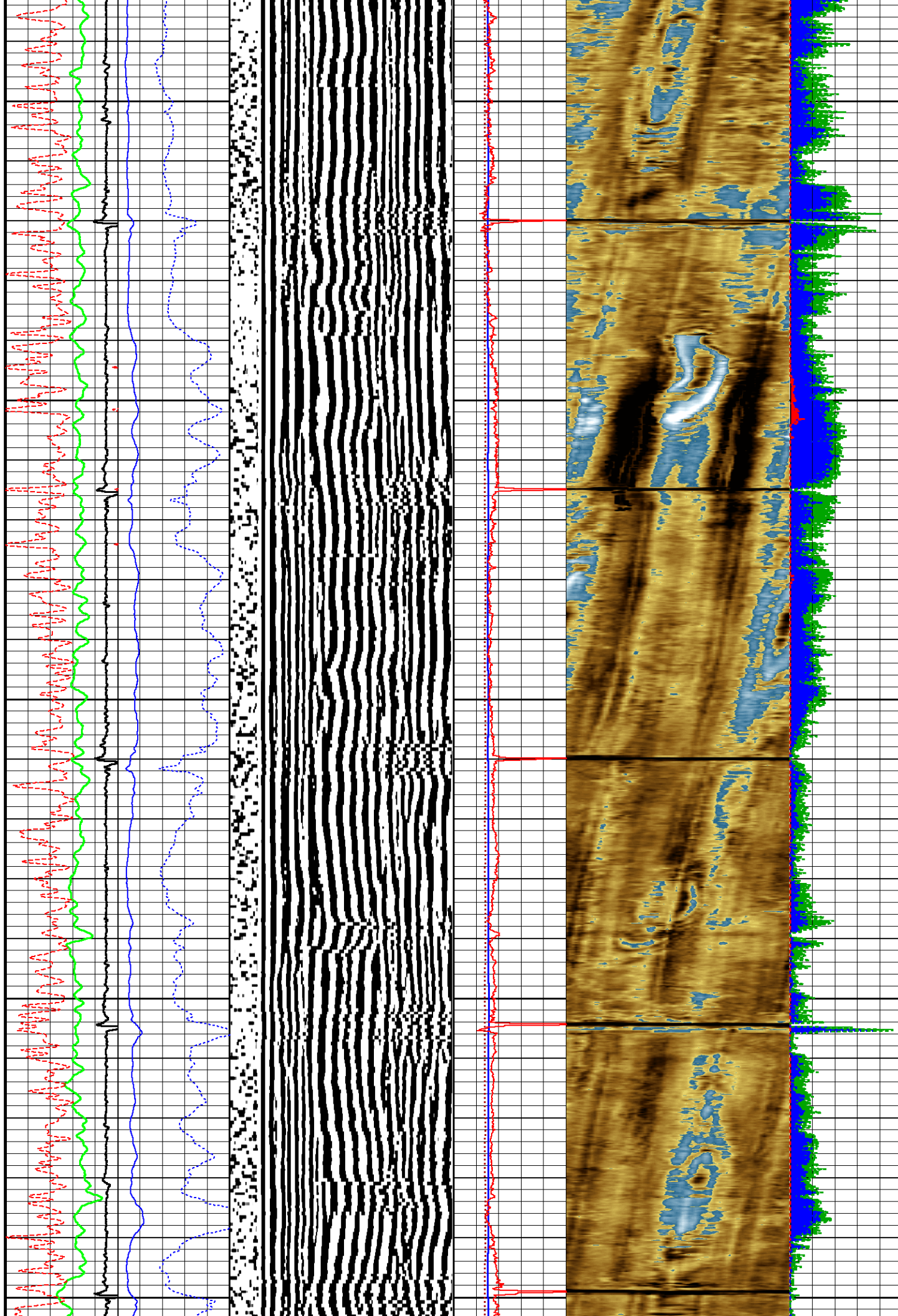
3200

3250

3300

3350

3400

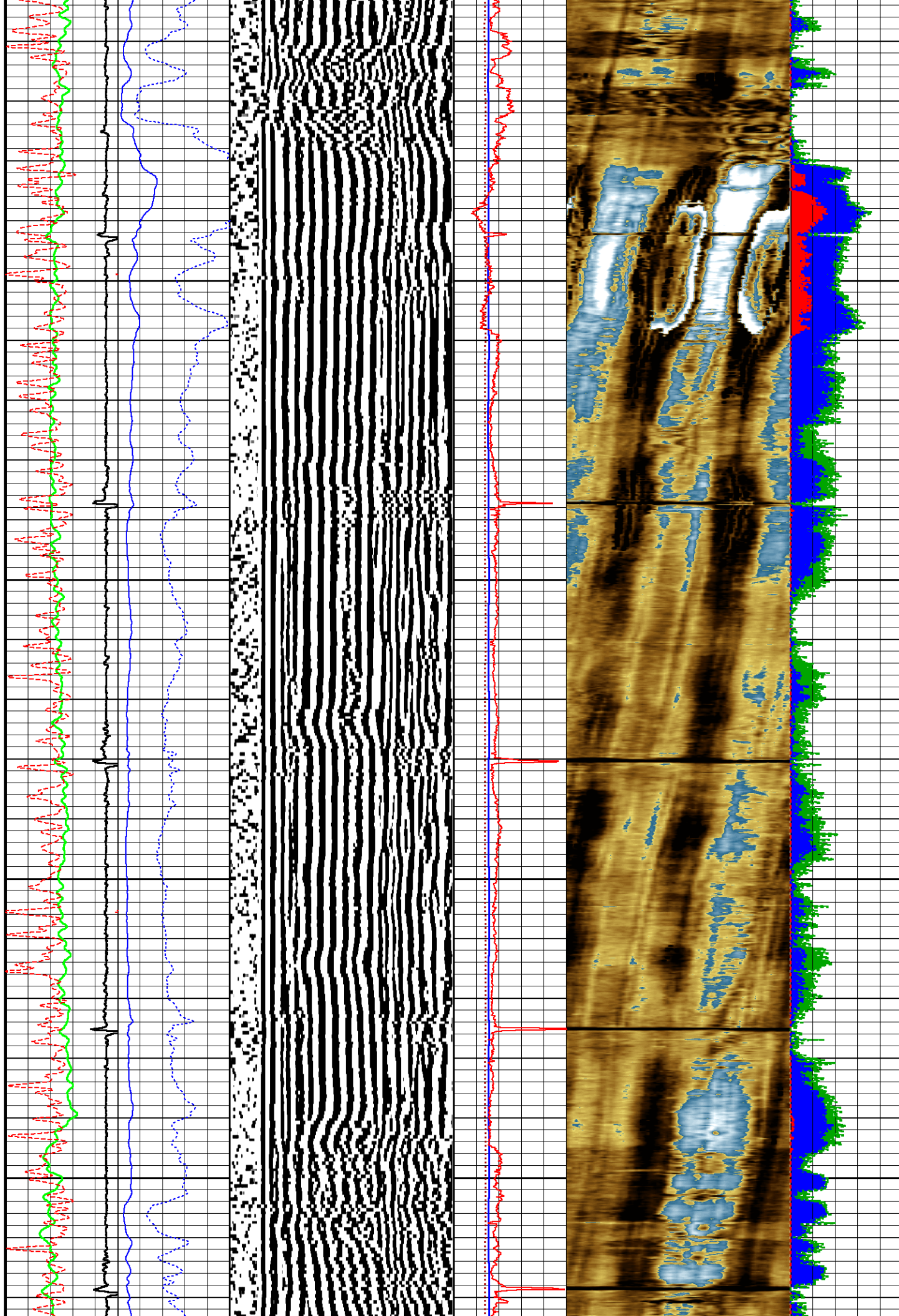


3450

3500

3550

3600

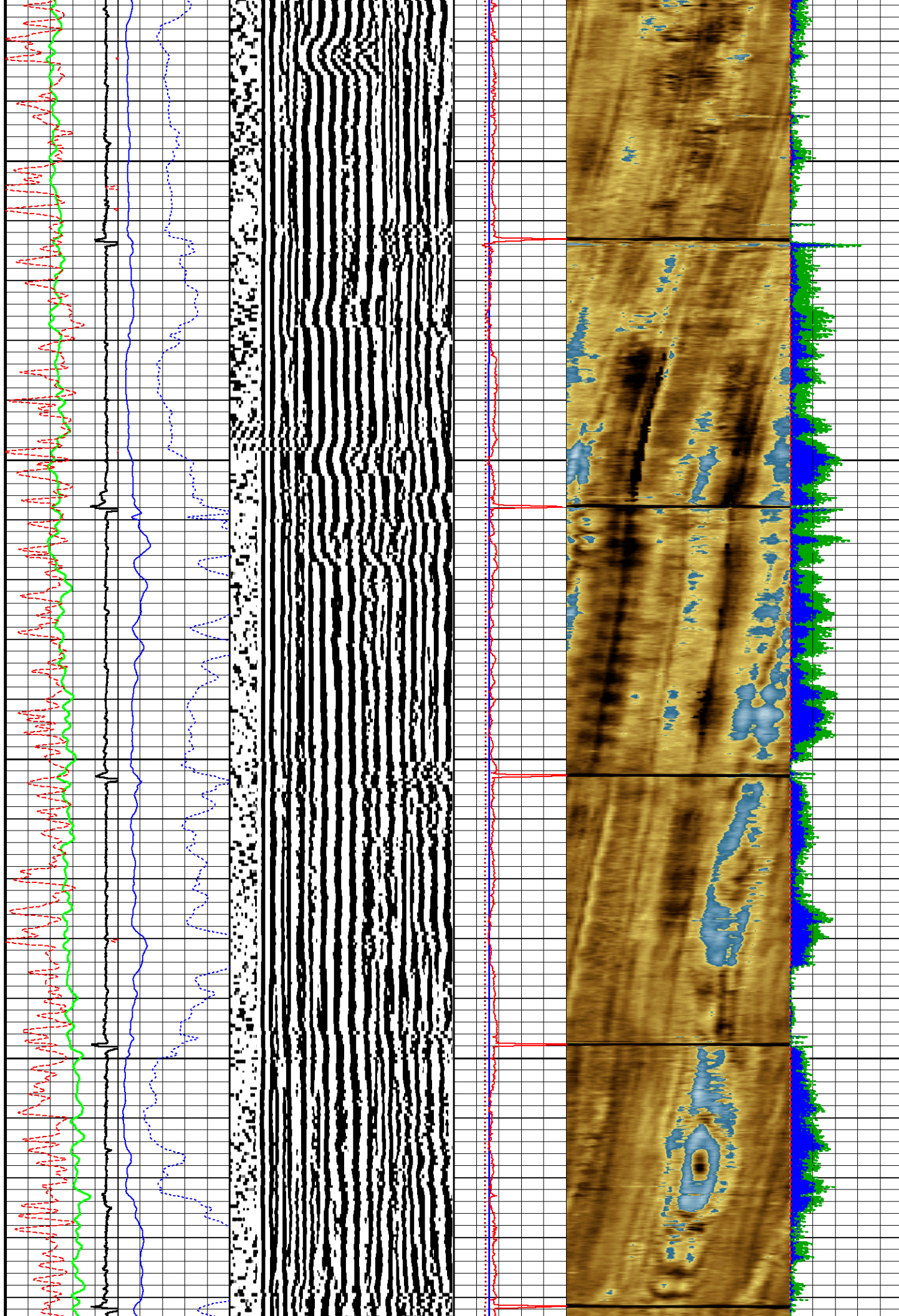


3650

3700

3750

3800



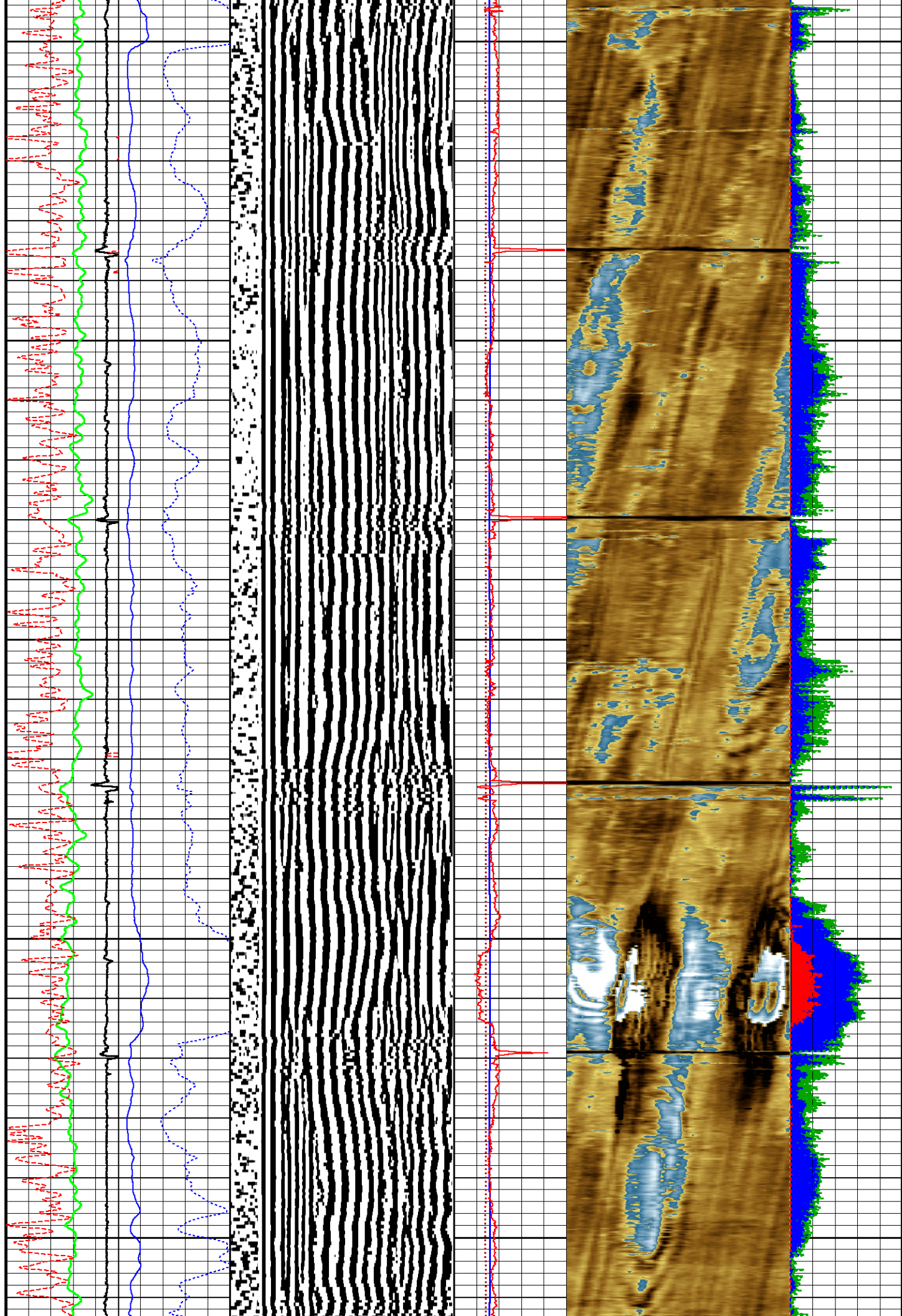
3850

3900

3950

4000

4050

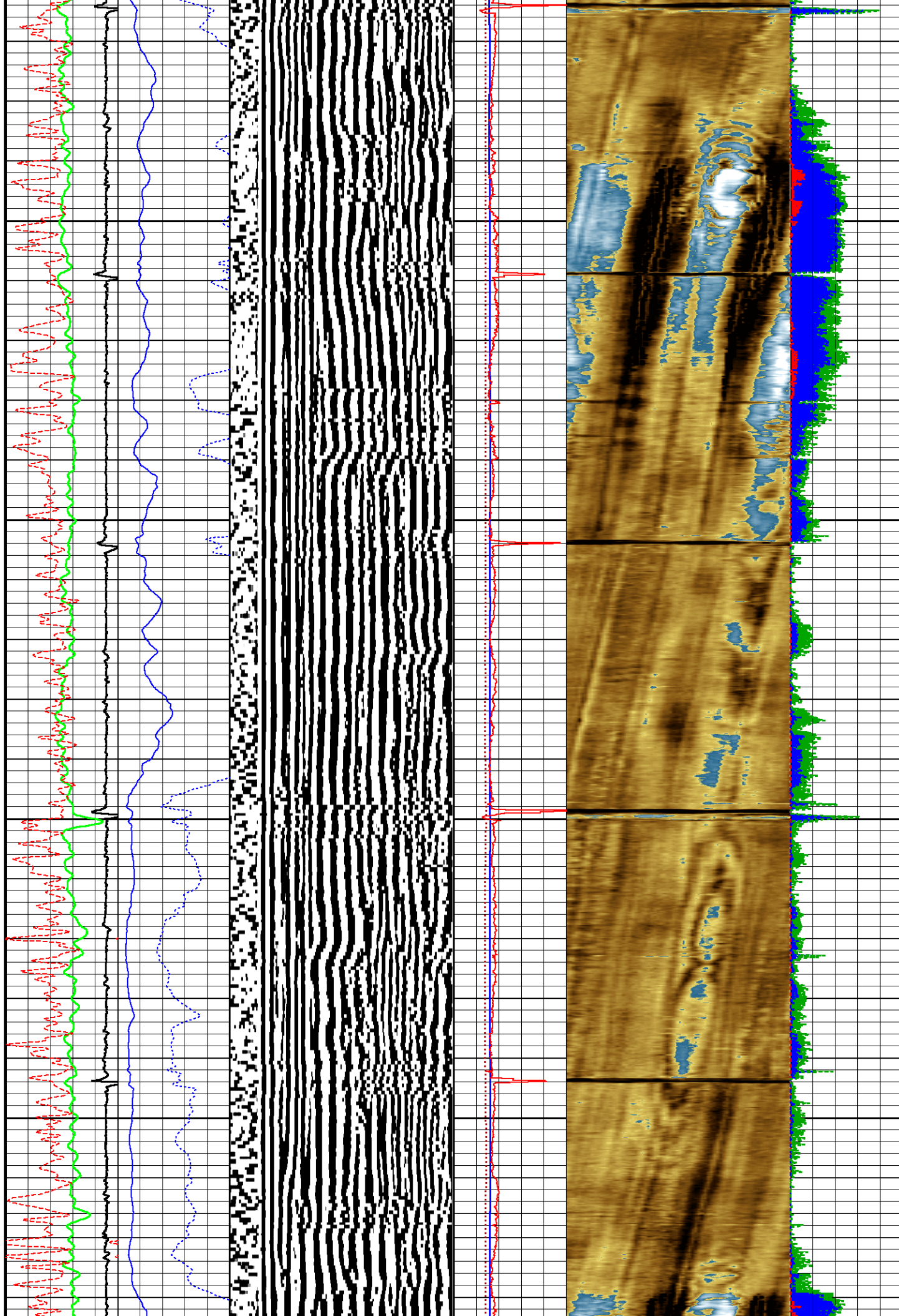


4100

4150

4200

4250



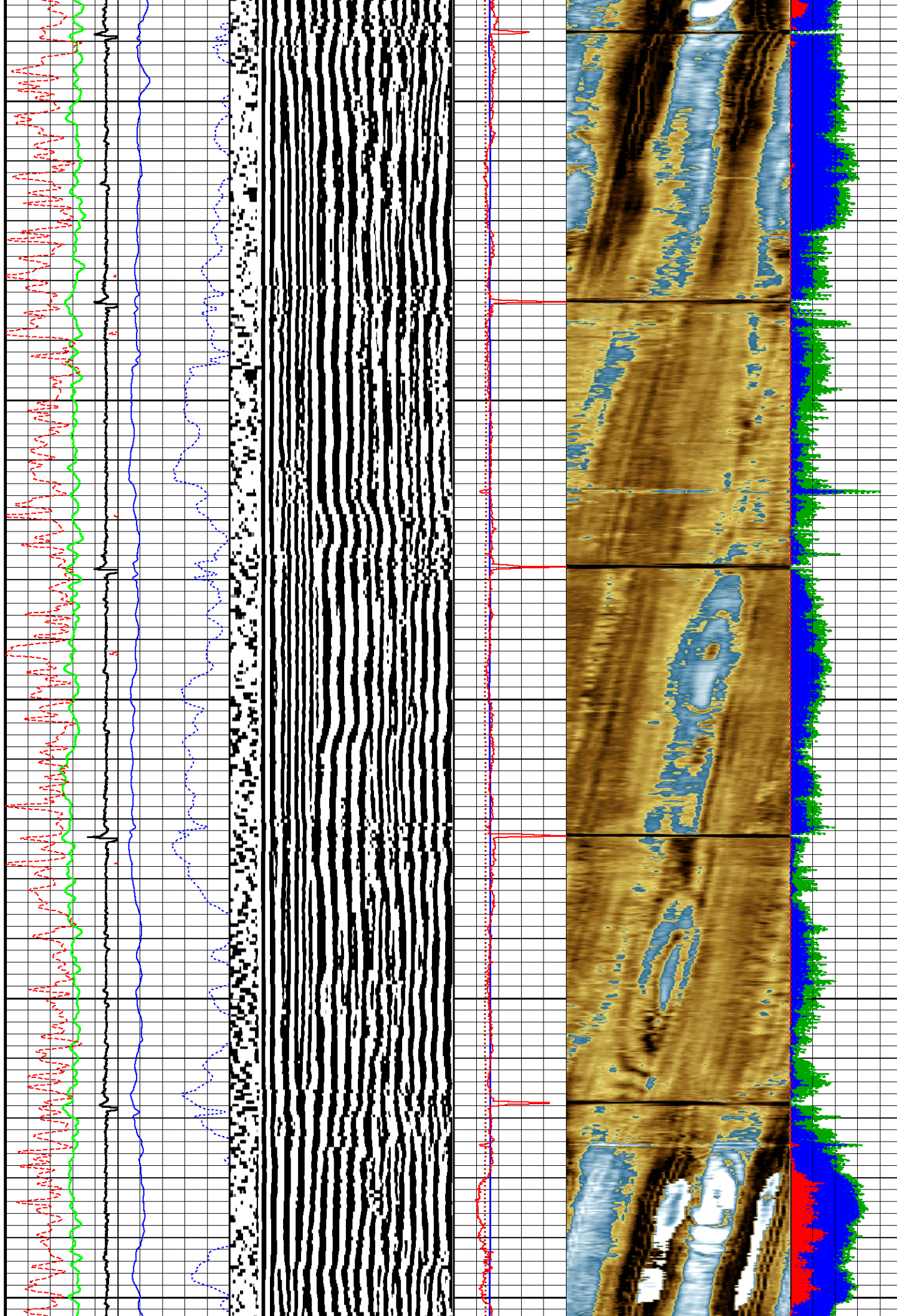
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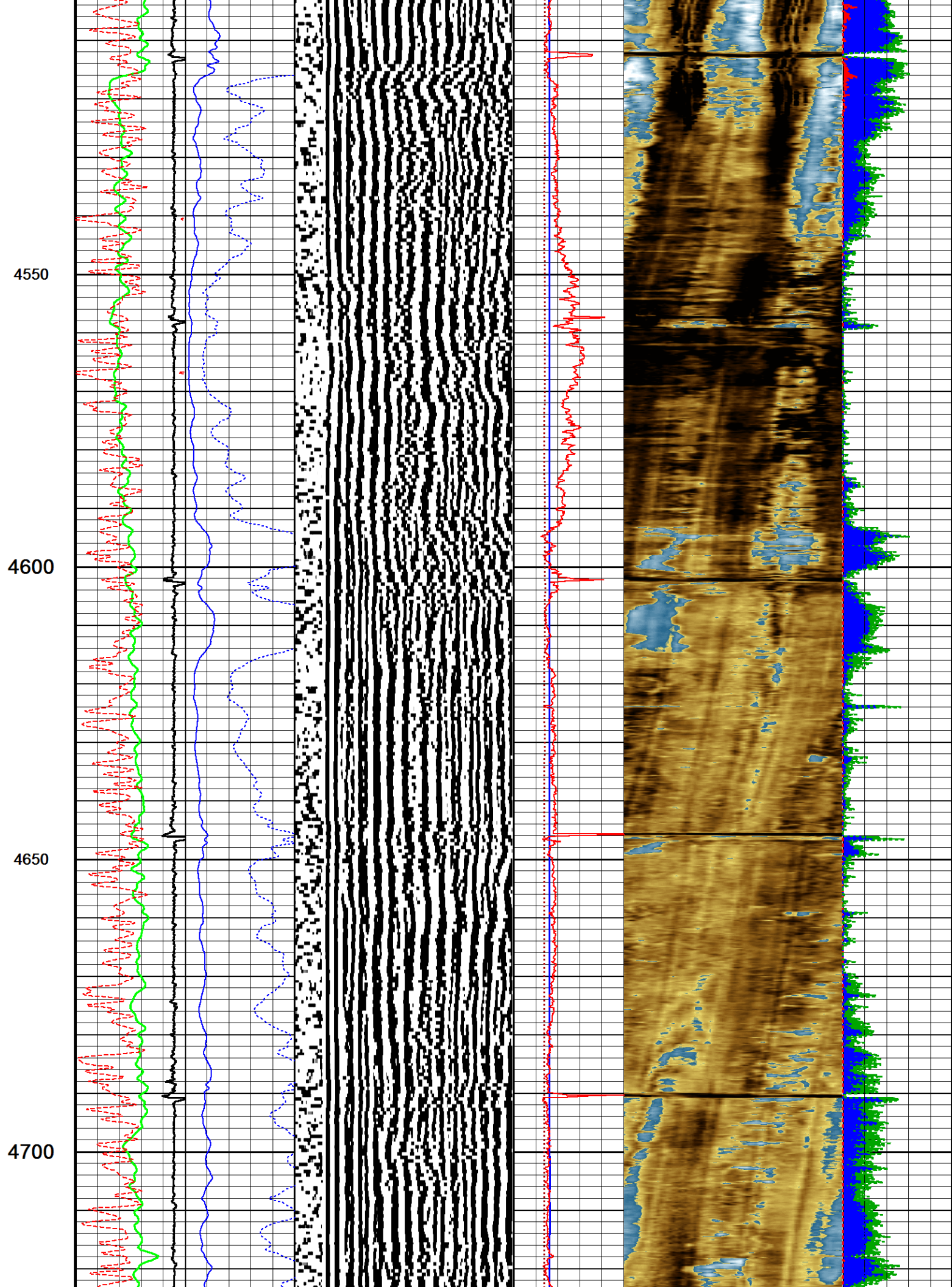
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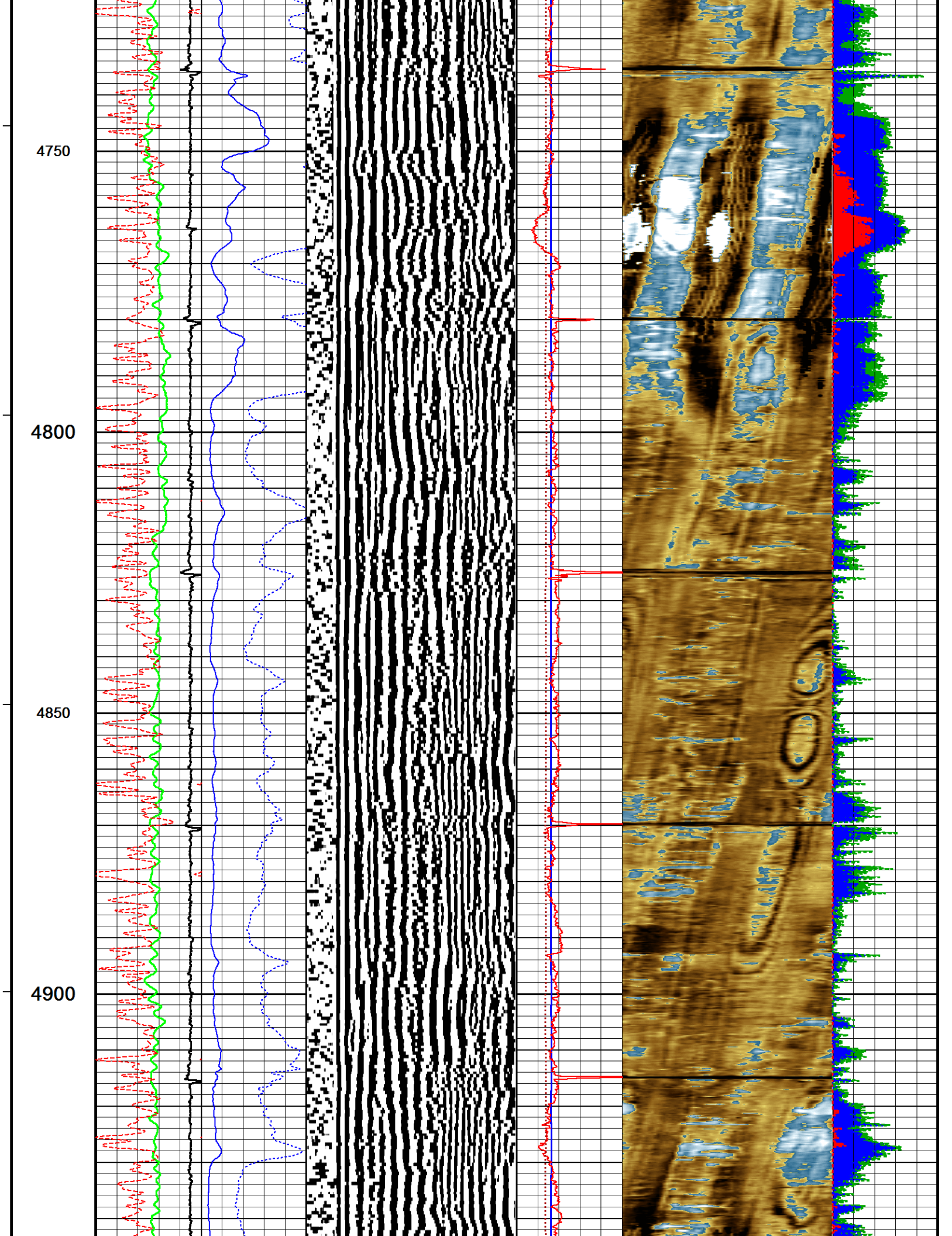
4400

4450

4500







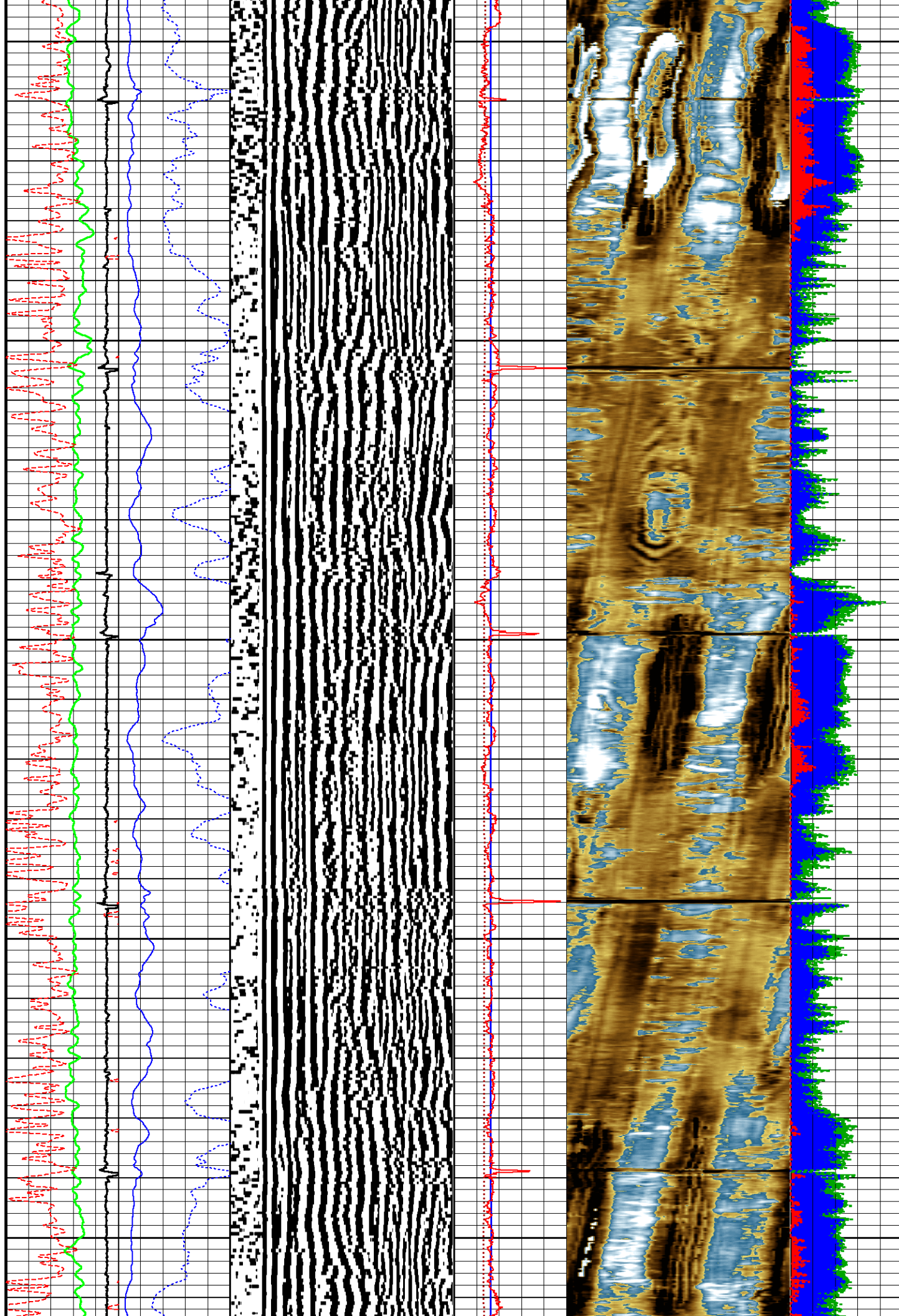
4950

5000

5050

5100

5150

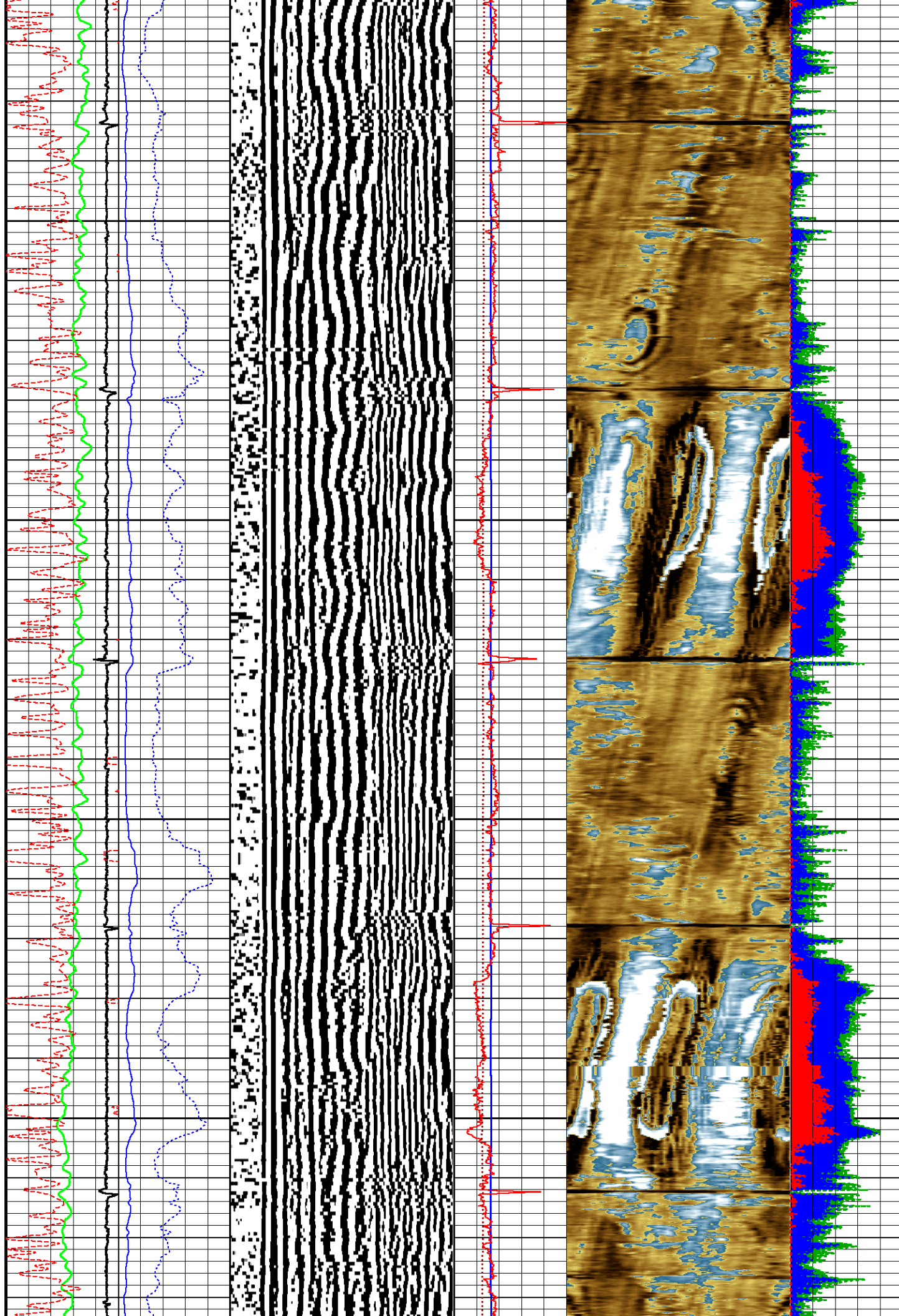


5200

5250

5300

5350



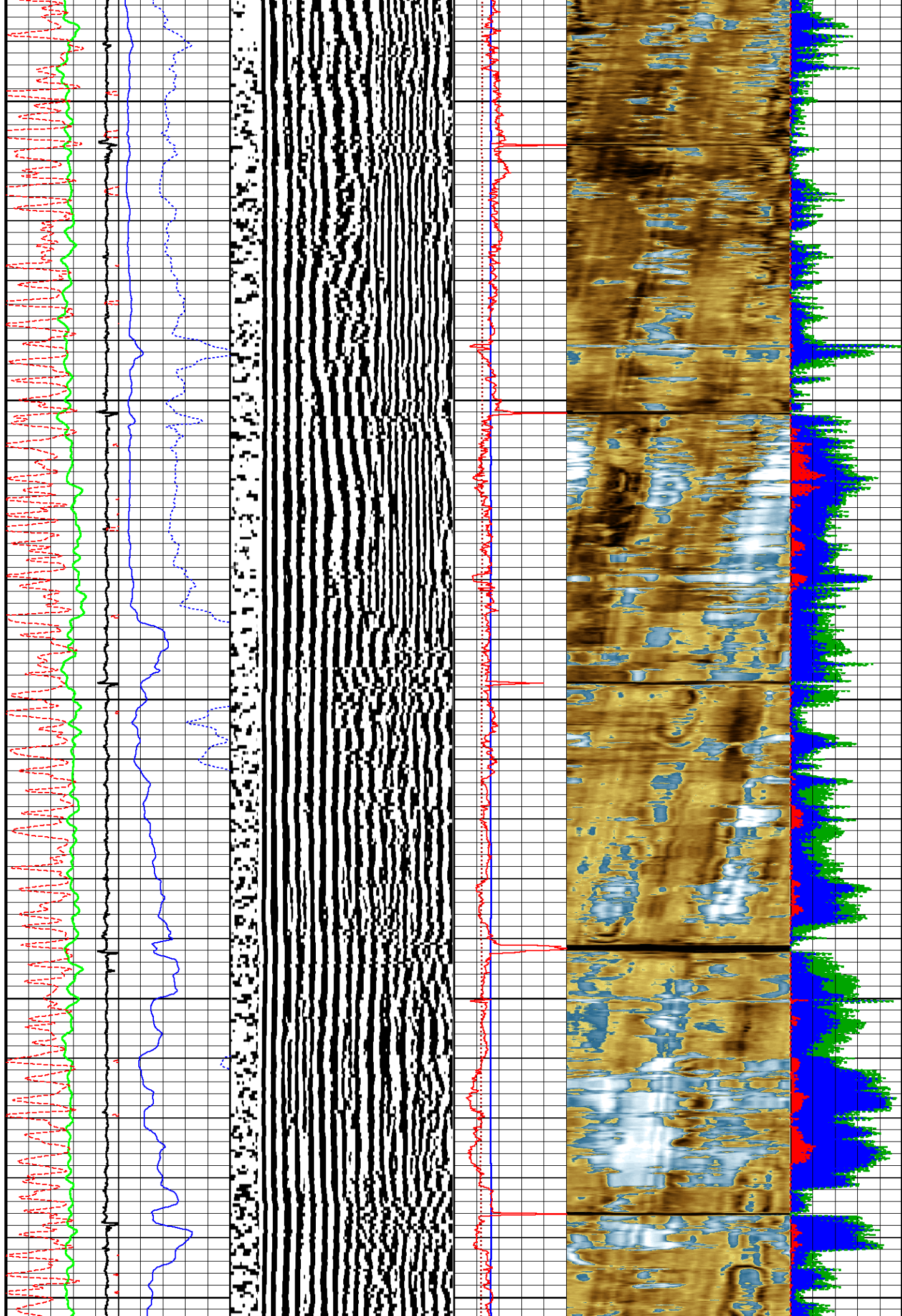
5400

5450

5500

5550

5600

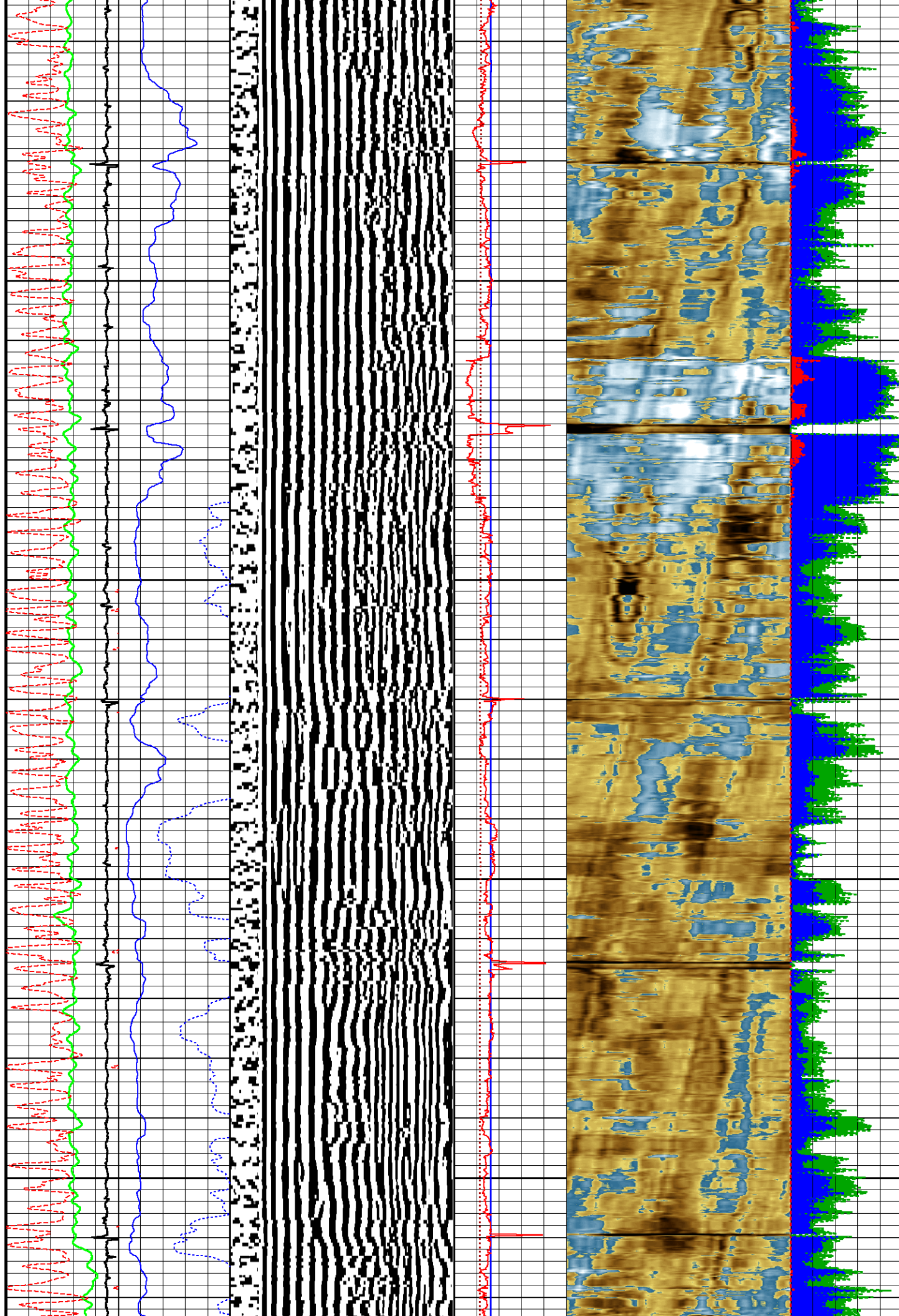


5650

5700

5750

5800

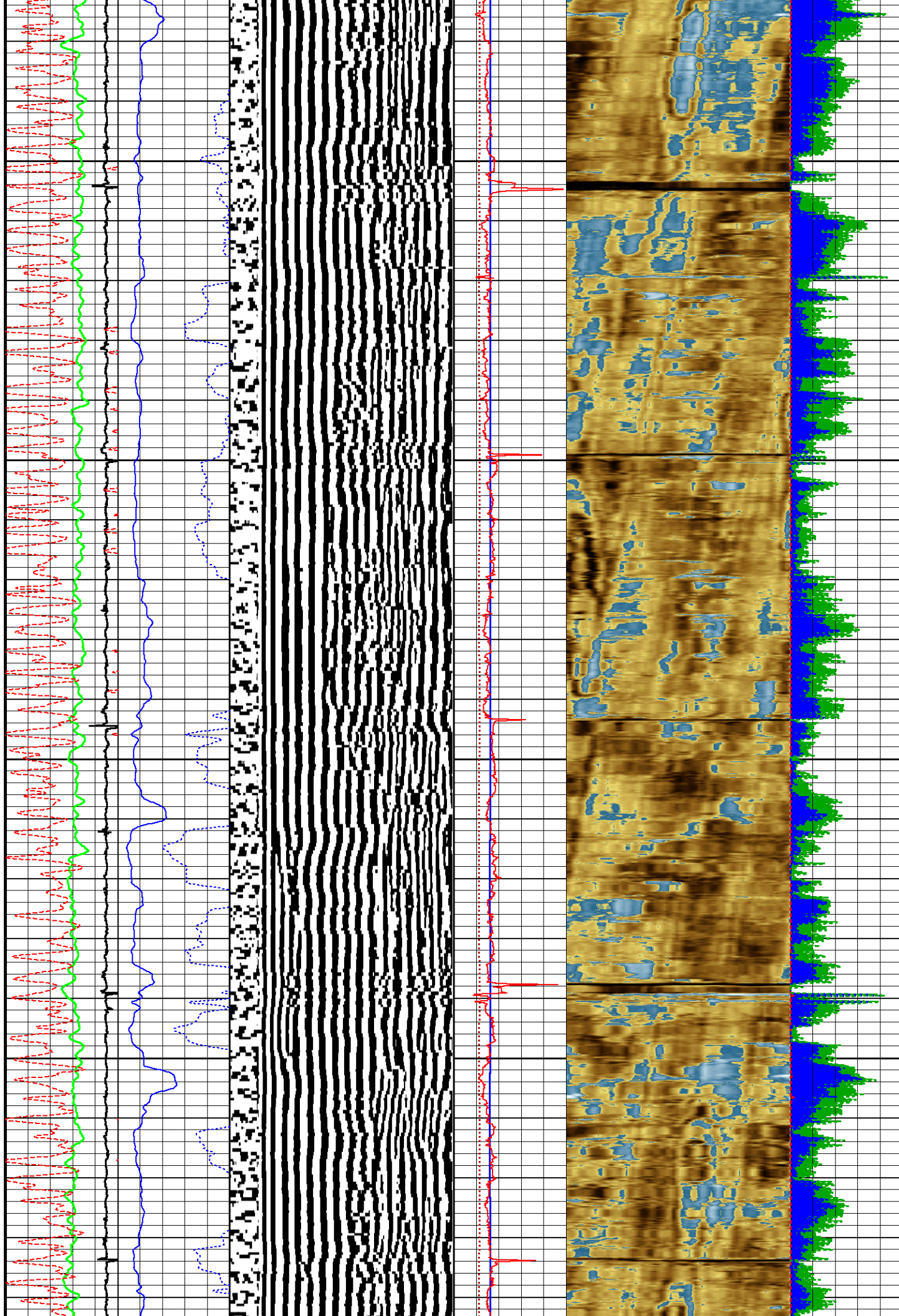


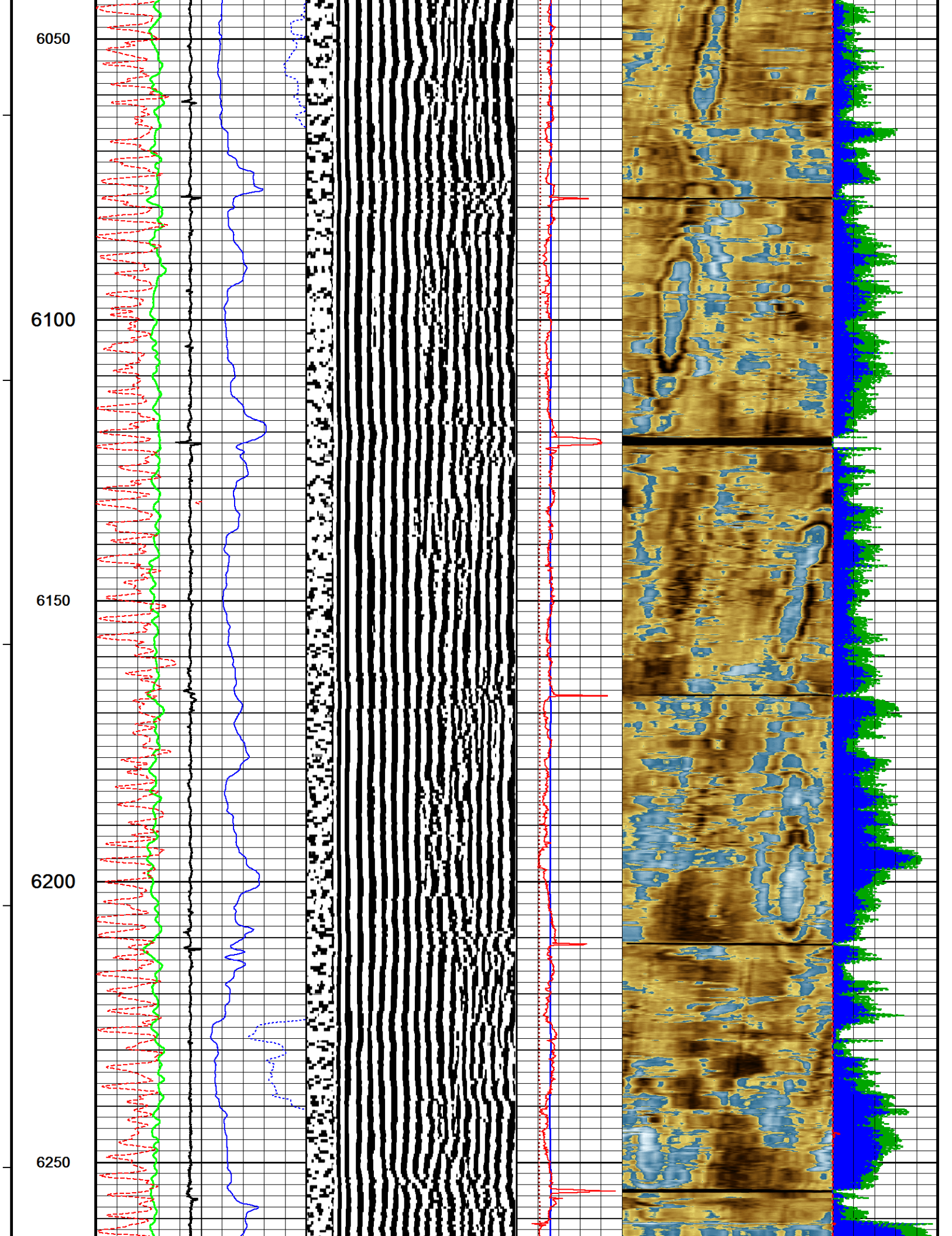
5850

5900

5950

6000



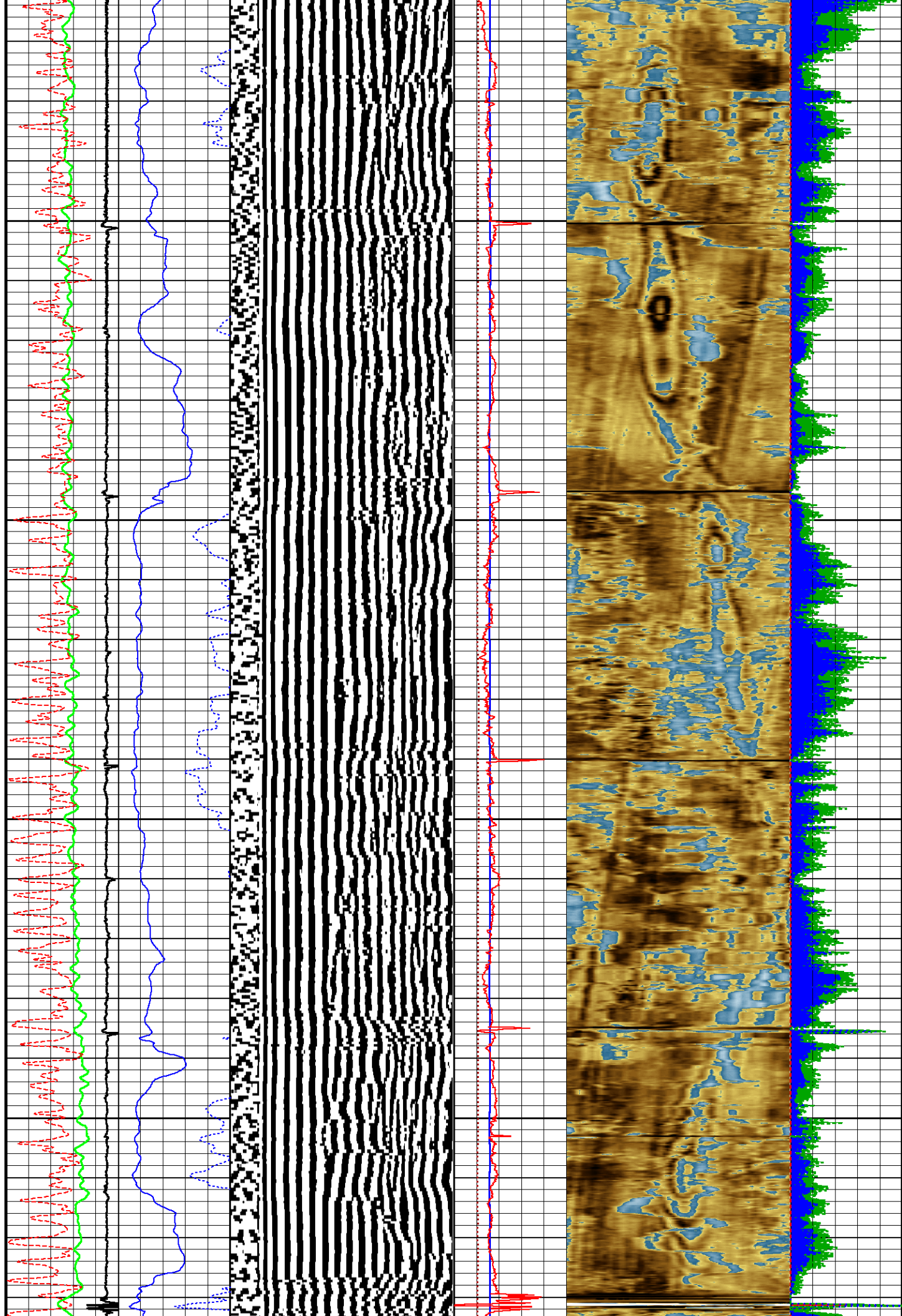


6300

6350

6400

6450



6500

6550

6600

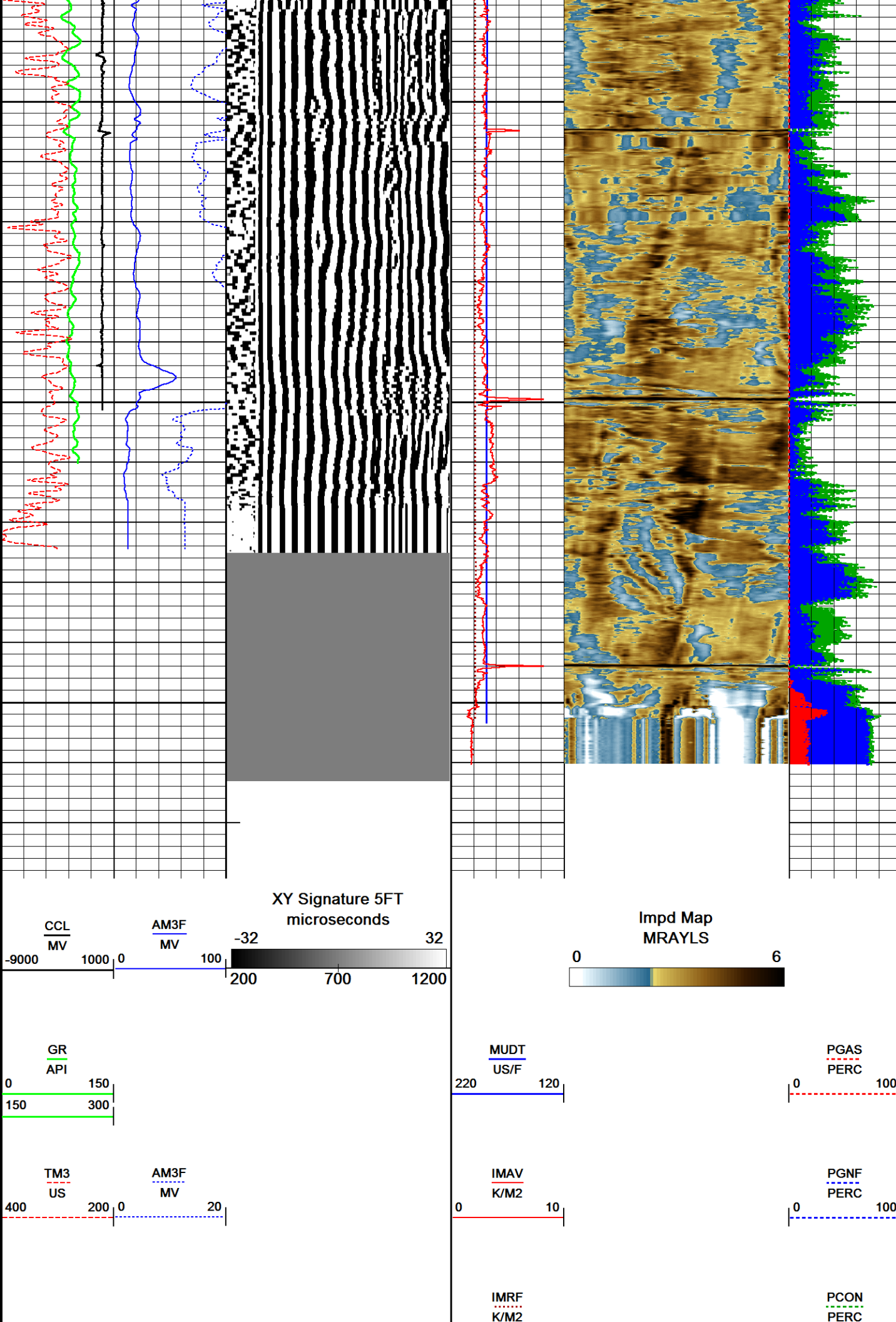
Depth  
in  
Feet

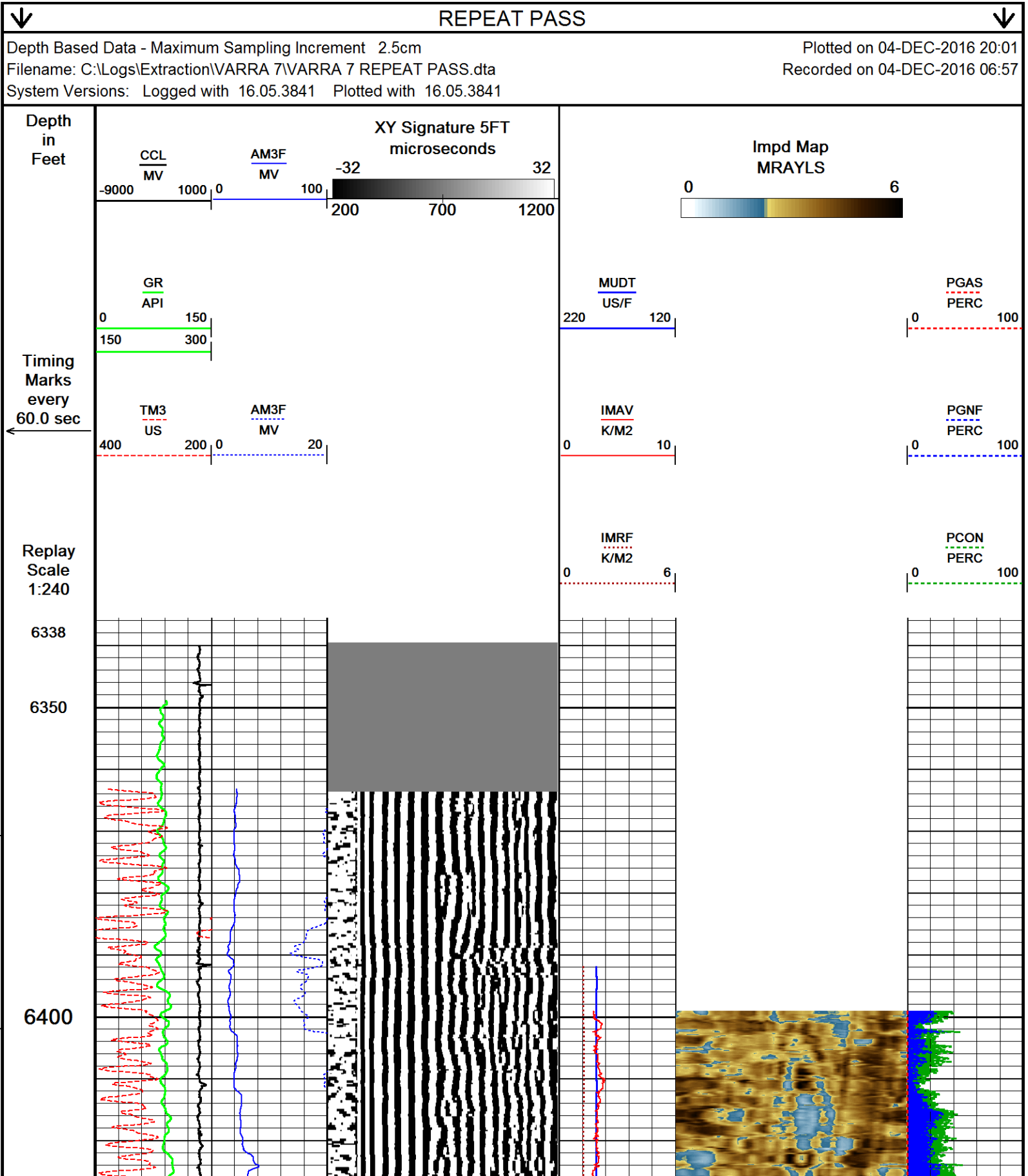
XY Signature 5FT  
microseconds

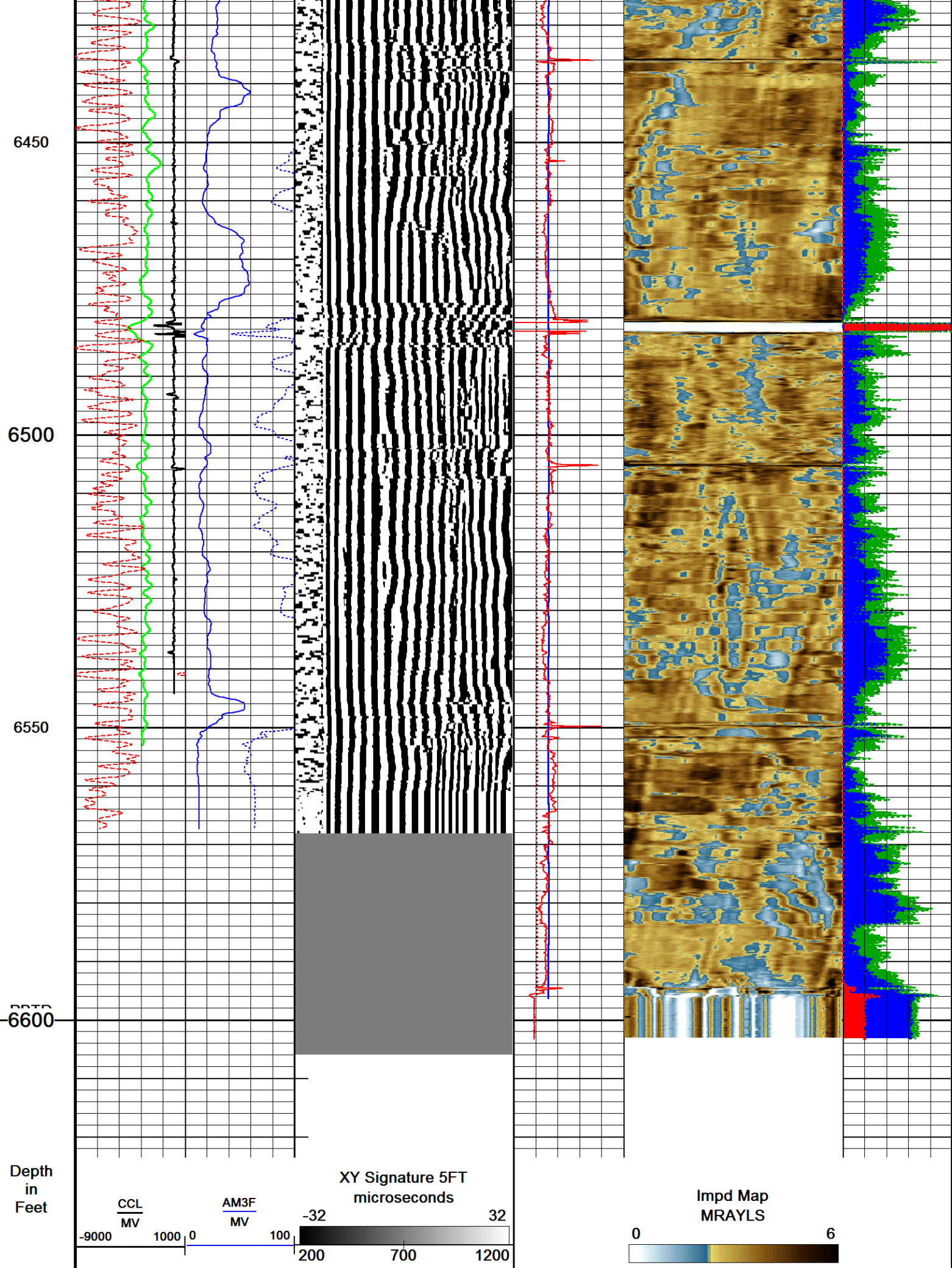
Impd Map  
MRAYLS

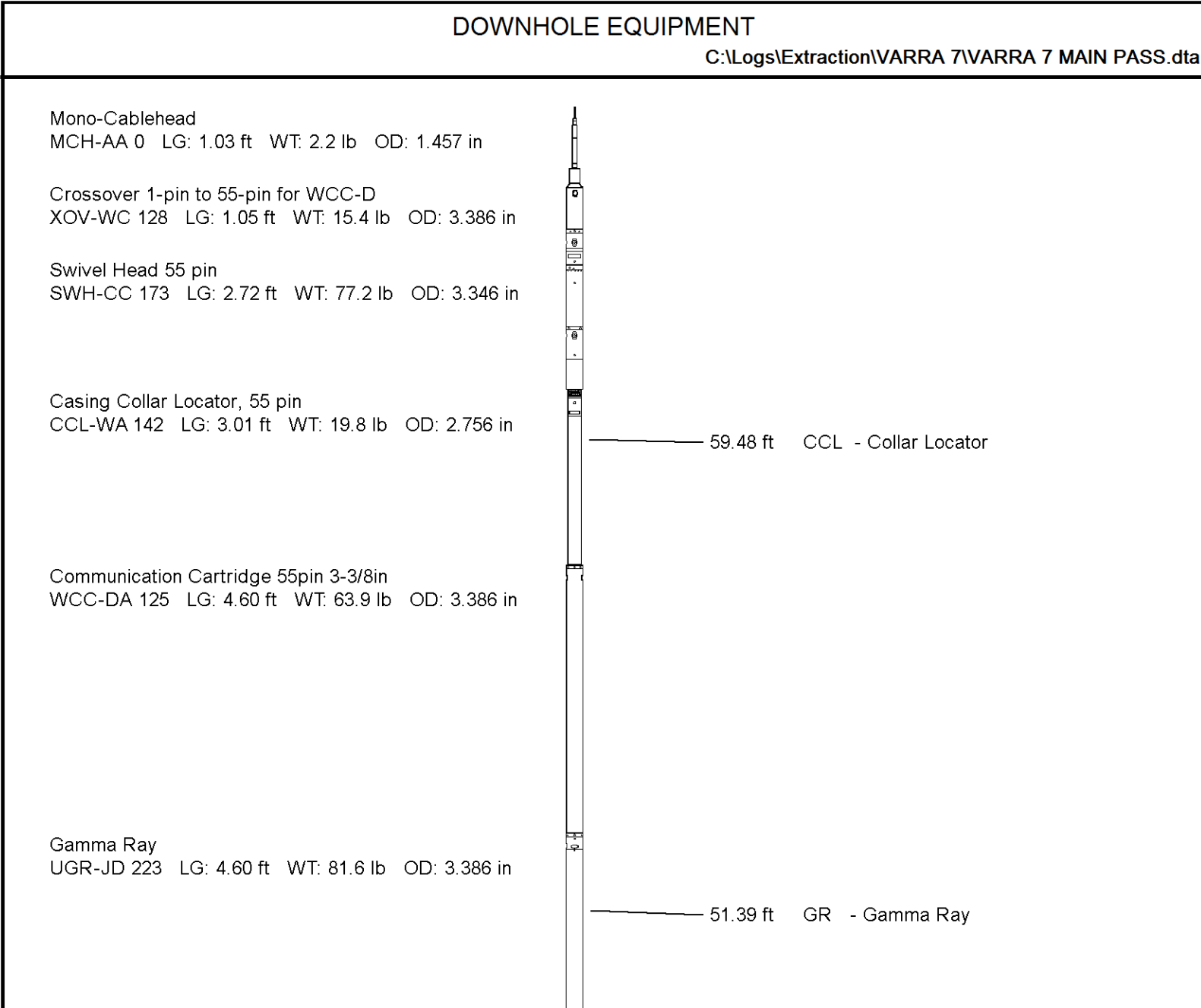
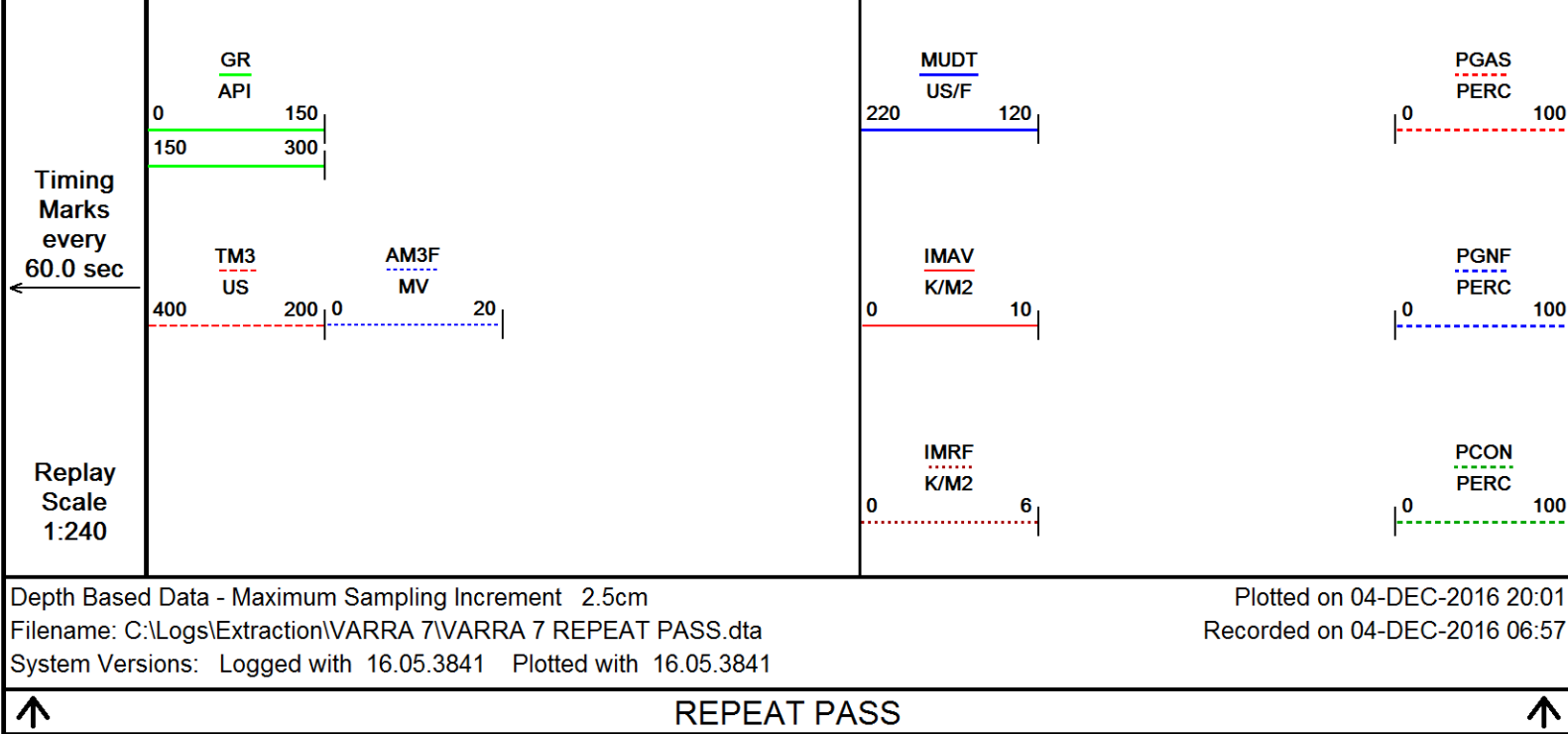
Timing  
Marks  
every  
60.0 sec

Replay









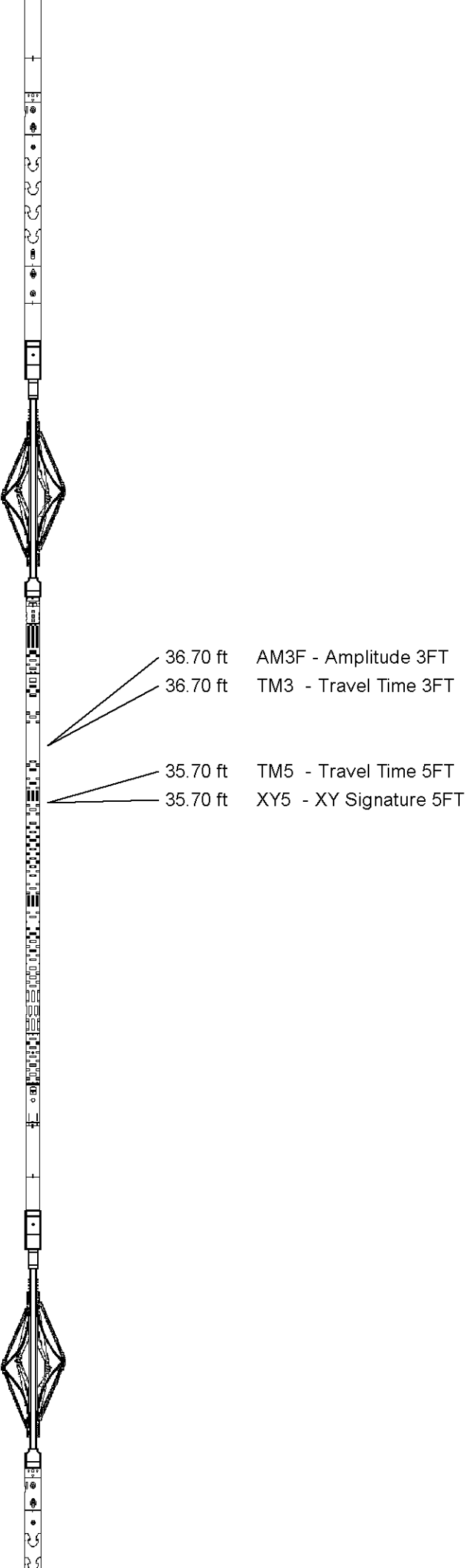
Flexible Joint, URS, 55 Pin  
FTP-FA 131 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in

55 pin Roller Centralizer  
CEN-XA 162 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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

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 182 LG: 4.35 ft WT: 90.4 lb OD: 3.390 in



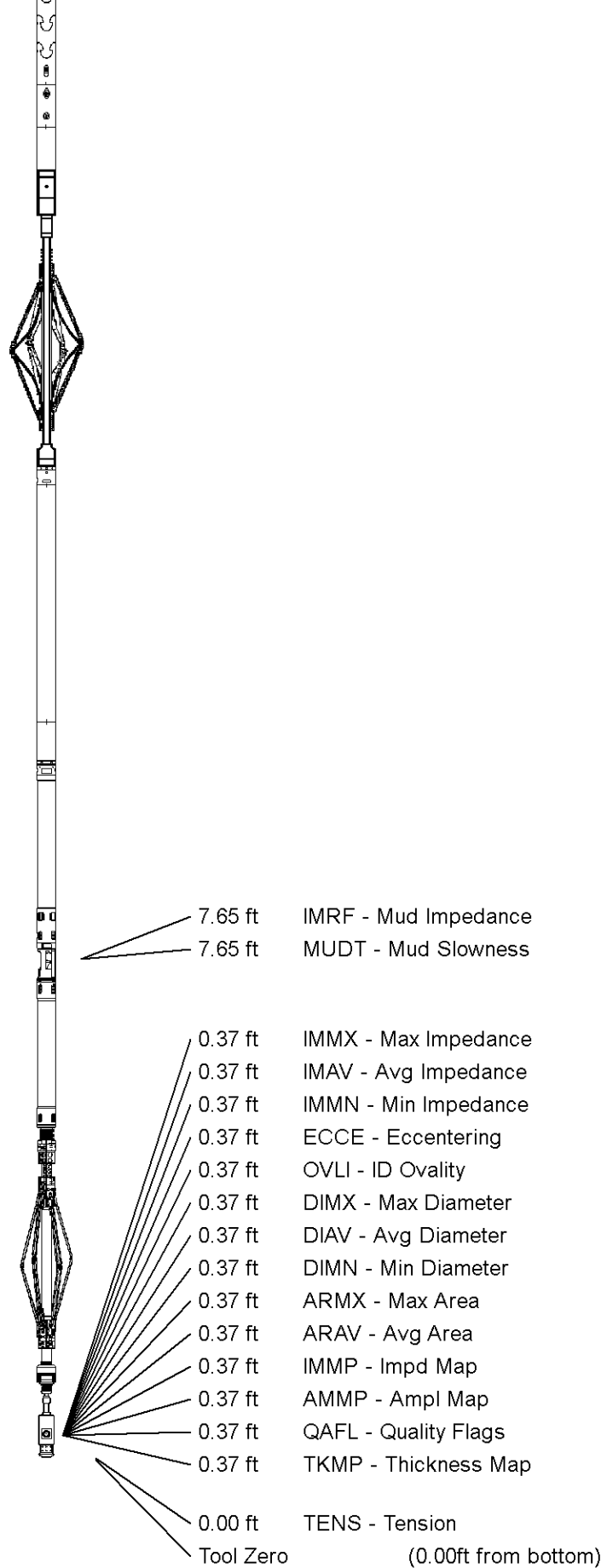
55 pin Roller Centralizer  
CEN-XA 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

URS Electronics Cartridge  
UCC-AA 194 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section  
USS-AB 178 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



All measurements relative to tool zero.

## SHOP AND FIELD CALIBRATIONS

C:\Logs\Extraction\VARRA 7\VARRA 7 MAIN PASS.dta

## Gamma Ray Field Survey Calibration

Tool Type: UGR-JD  
Calibrator No: TH 047

Serial No: 223

Background	Calibrator	Standard	Units
89.3	548.2	155.0	CPS

Delta Counts Per Sec: 458.9      CPS/API = 2.961

## CBT Field Calibration    CBT-AA 101

Field Calibration on 08-NOV-2016 08:11

## 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	1.80	0.00
	Free Pipe	55.00	444.52
AMP 5 FT	100 % Bond	1.20	0.00
	Free Pipe	36.00	408.30

## CBT Constants    CBT-AA 101

Last Edited on 04-DEC-2016 07:07

Min Ampl 100% Bond	2.00 MV
Max Ampl 0% Bond	90.00 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	187.0 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 15-NOV-2016 08:41

## 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

## \*\*\* 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	3.75
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	1571.00	5.50	36.00	1.50	1.50	0.36	1.00
0.00	17100.00	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	Titanium Air Backed
Z_mud at Calibration	1.60 K/M2
Z_mud Outside	1.70 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	VARRA 7
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	4924	feet	Bottom Log Interval	6600.00	feet
Elevation Drill Floor	4924	feet	Depth Driller	17100.00	feet
Elevation Ground Level	4899	feet	Depth Logger	6600.00	feet



SECUREVIEW  
ULTRAVIEW/BONDVIEW  
CEMENT ANALYSIS

**Weatherford®**

