
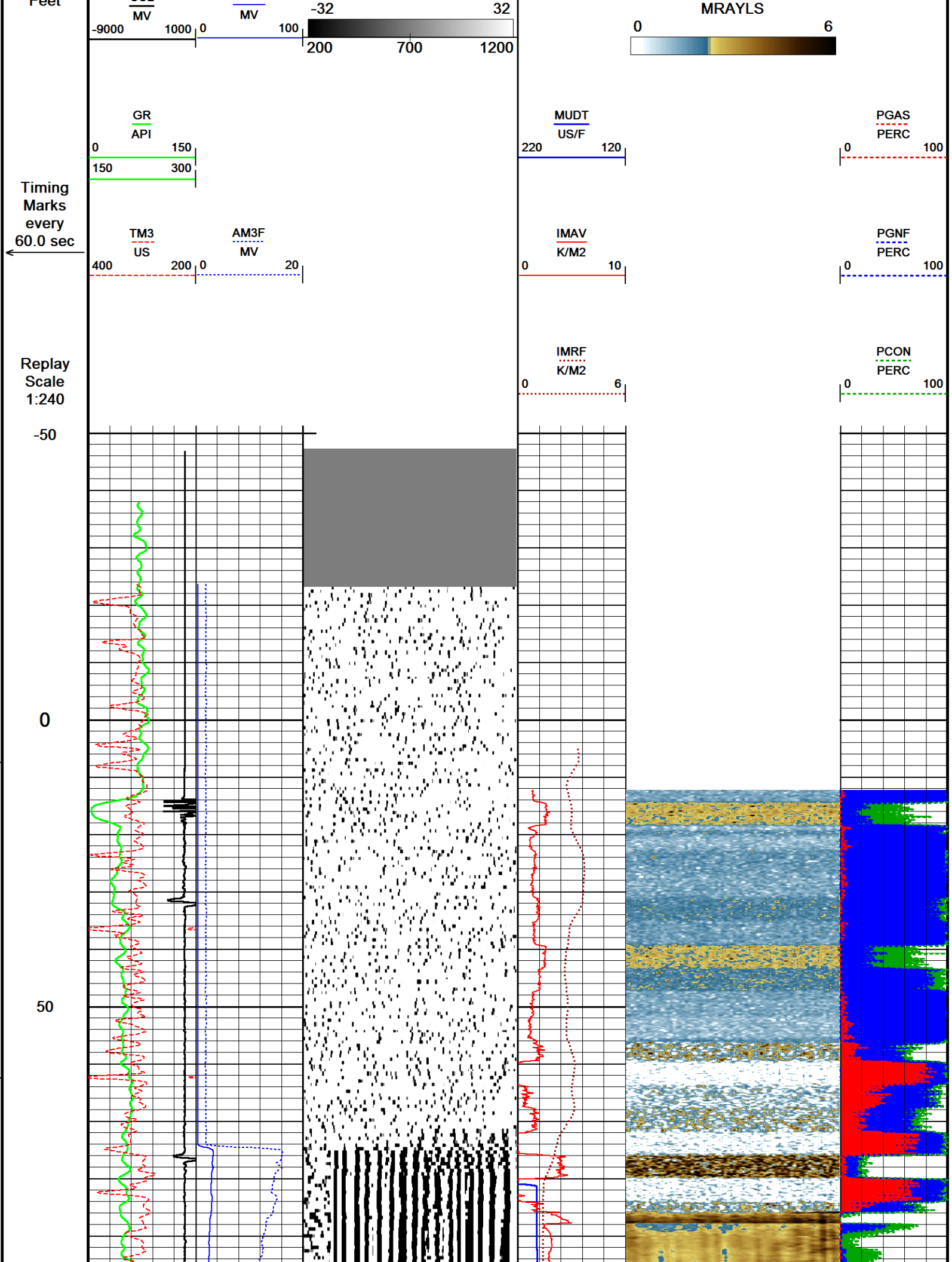
				SECUREVIEW			
				ULTRAVIEW/BONDVIEW			
				CEMENT ANALYSIS			
COMPANY				EXTRACTION OIL & GAS			
WELL				VARRA 4			
FIELD				WATTENBERG			
PROVINCE/COUNTY				WELD			
COUNTRY/STATE				USA / COLORADO			
LOCATION							
SEC 5	TWP 6N	RGE 67W	Other Services				
Latitude							
Longitude							
API Number							
Permanent Datum GROUND LEVEL, Elevation 4899 feet			Elevations: KB 4924.00 DF 4924.00 GL 4899.00				
Log Measured From KB, 25 feet above Permanent Datum							
Drilling Measured From KB @ 25'							
Date	05-DEC-2016		PERFORATION RECORD				
Run Number	ONE		Shot	Number	Depth From	Depth To	
Service Order	168158496		Density	of Shots	feet	feet	
Type Log	URS/CBT						
Depth Driller	17100.00						
Depth Logger	6670.00						
Top Log Interval	0.00						
Bottom Log Interval	6670.00						
Hole Fluid Type	WATER						
Hole Fluid Level	0.00						
Restriction ID	4.767		Gun Type				
Max Recorded Temp			Gun Size				
Well Head Pressure	0.00		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	1600.00	
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	1600.00	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> MAIN PASS <div>↓</div>		
Depth Based Data - Maximum Sampling Increment 2.5cm Filename: C:\Logs\Extraction\VARRA 4\VARRA 4 MAIN PASS.dta System Versions: Logged with 16.05.3841 Plotted with 16.05.3841		
Plotted on 05-DEC-2016 21:24	Recorded on 05-DEC-2016 07:23	
Depth in Feet	XY Signature 5FT microseconds	Impd Map
CCI	AM3F	



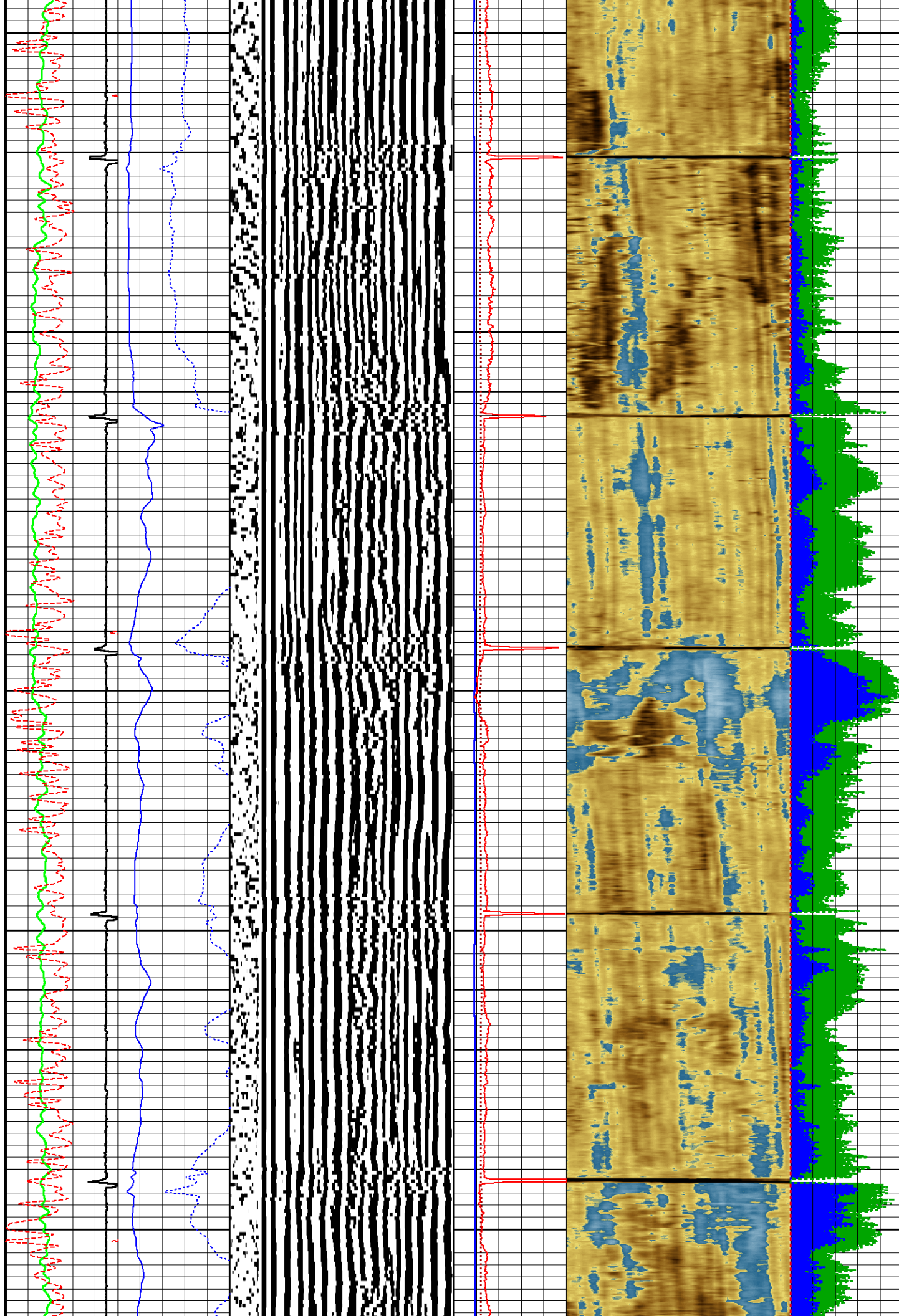
100

150

200

250

300

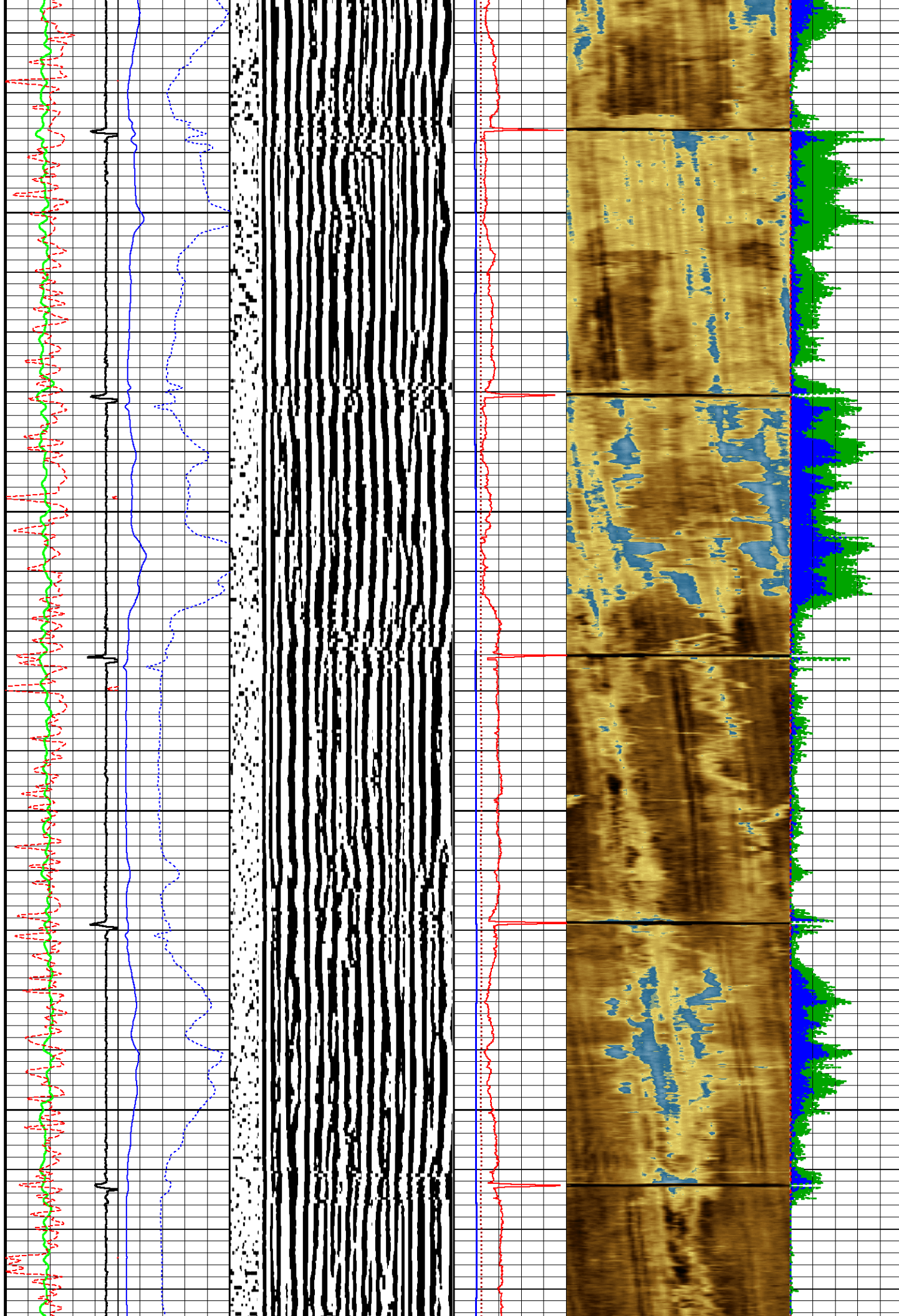


350

400

450

500



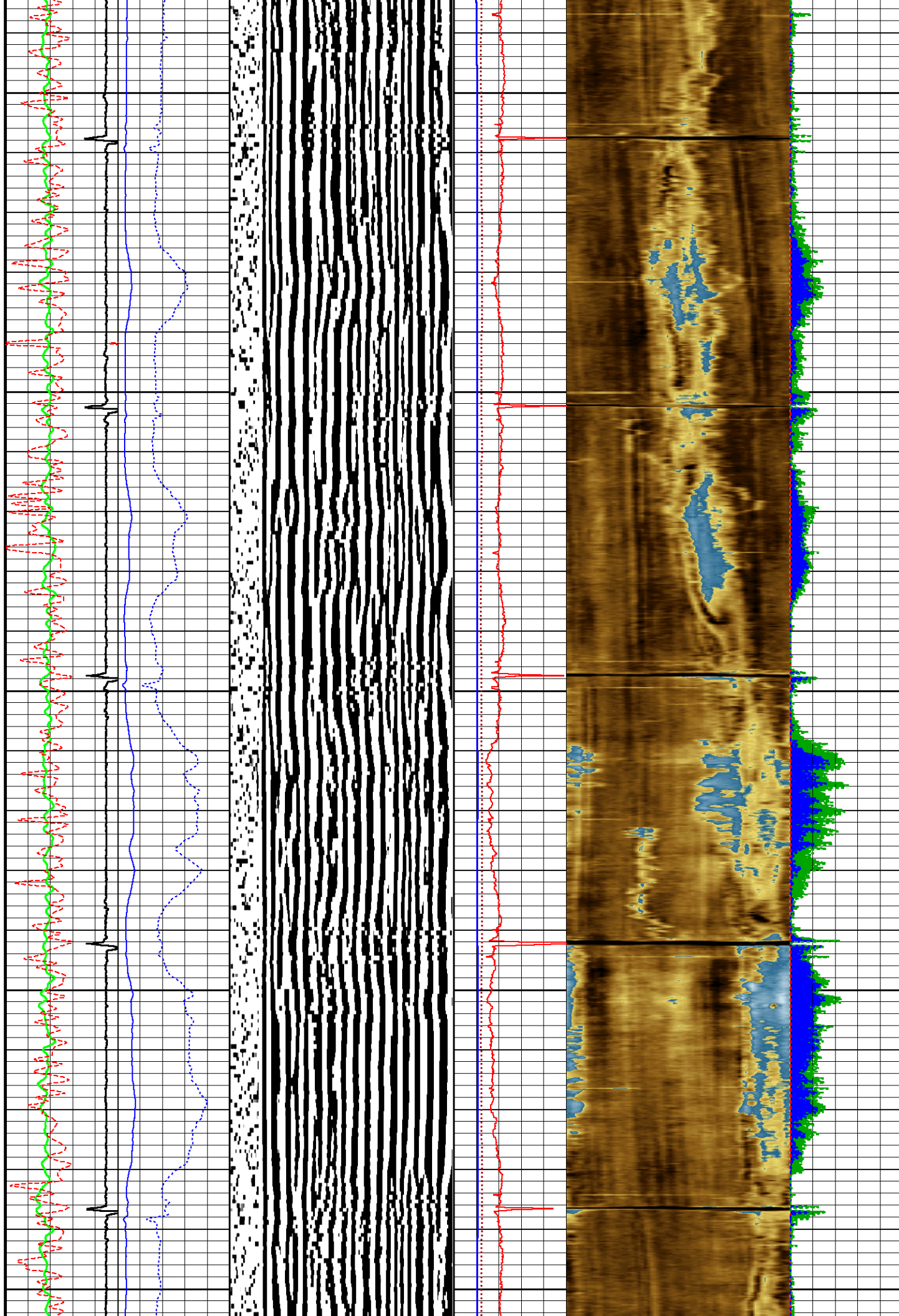
550

600

650

700

750

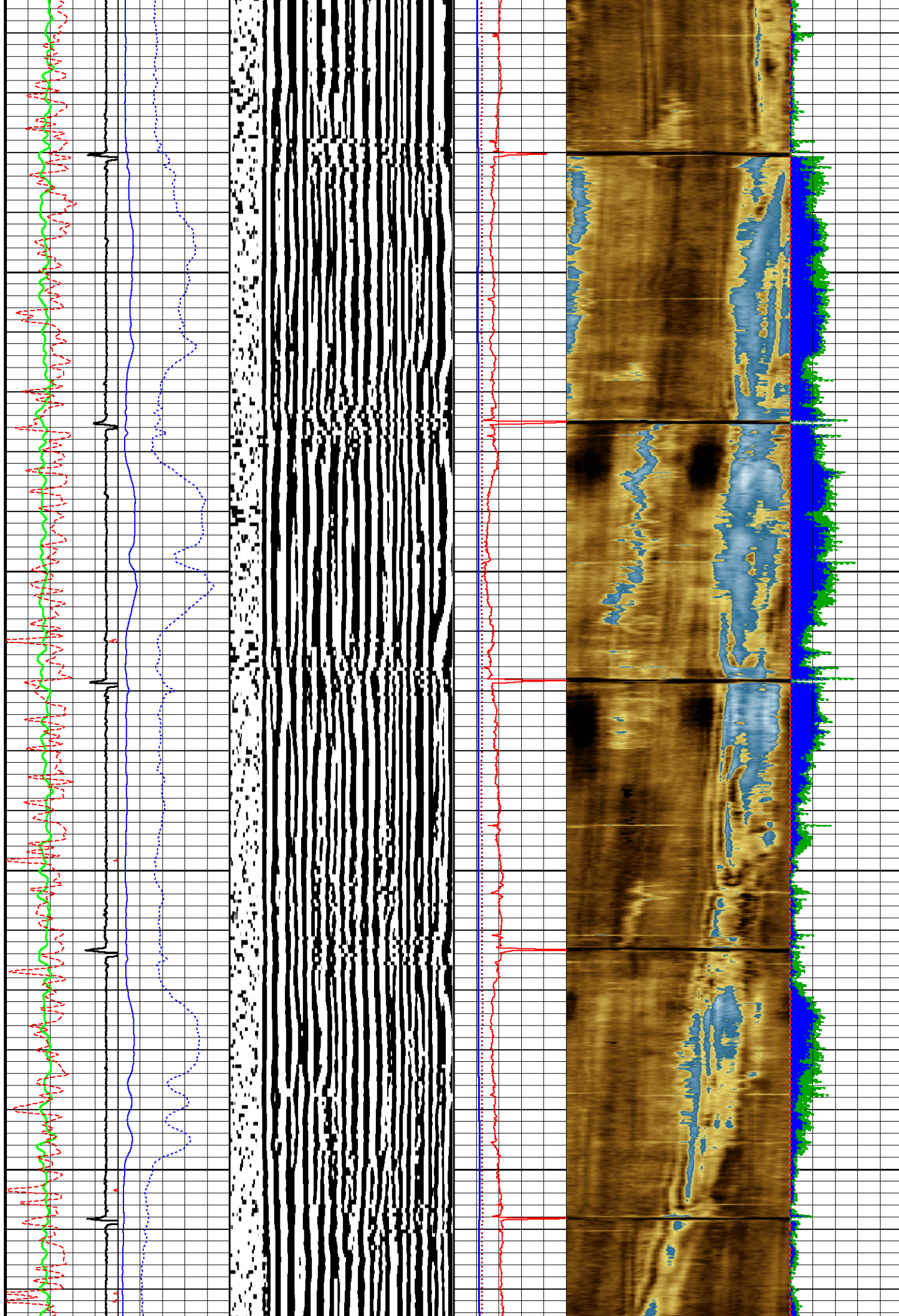


800

850

900

950

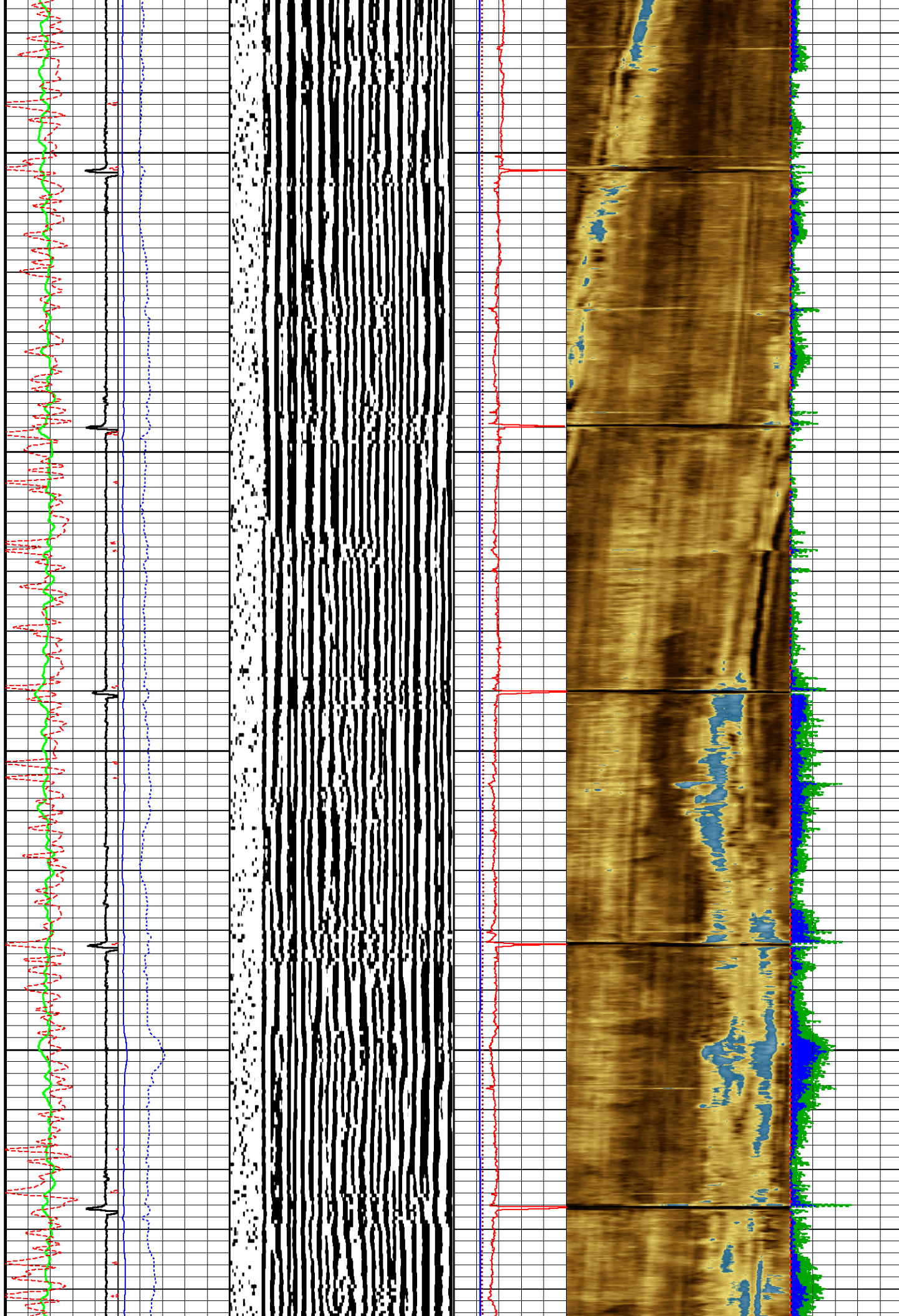


1000

1050

1100

1150



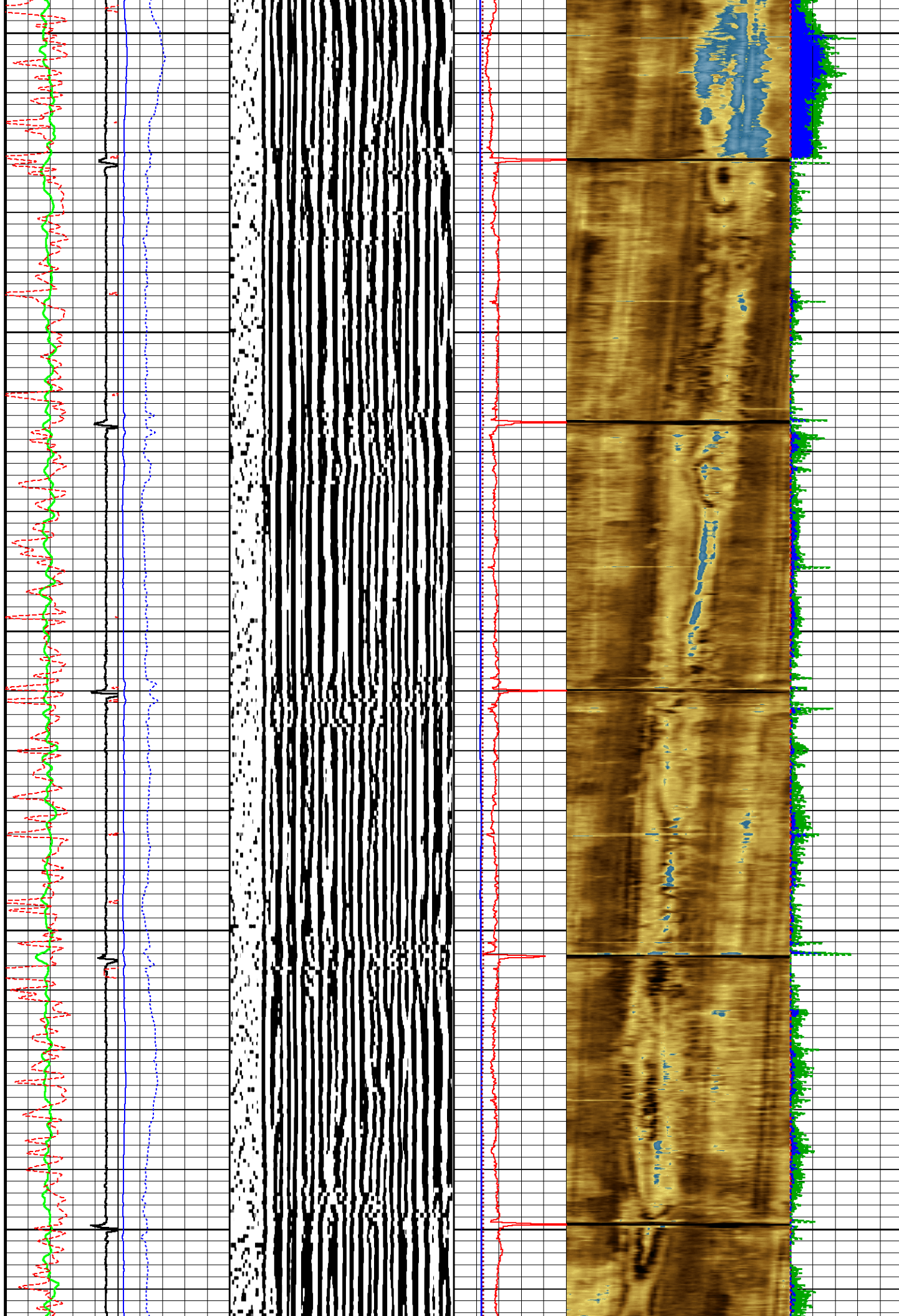
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1250

1300

1350

1400

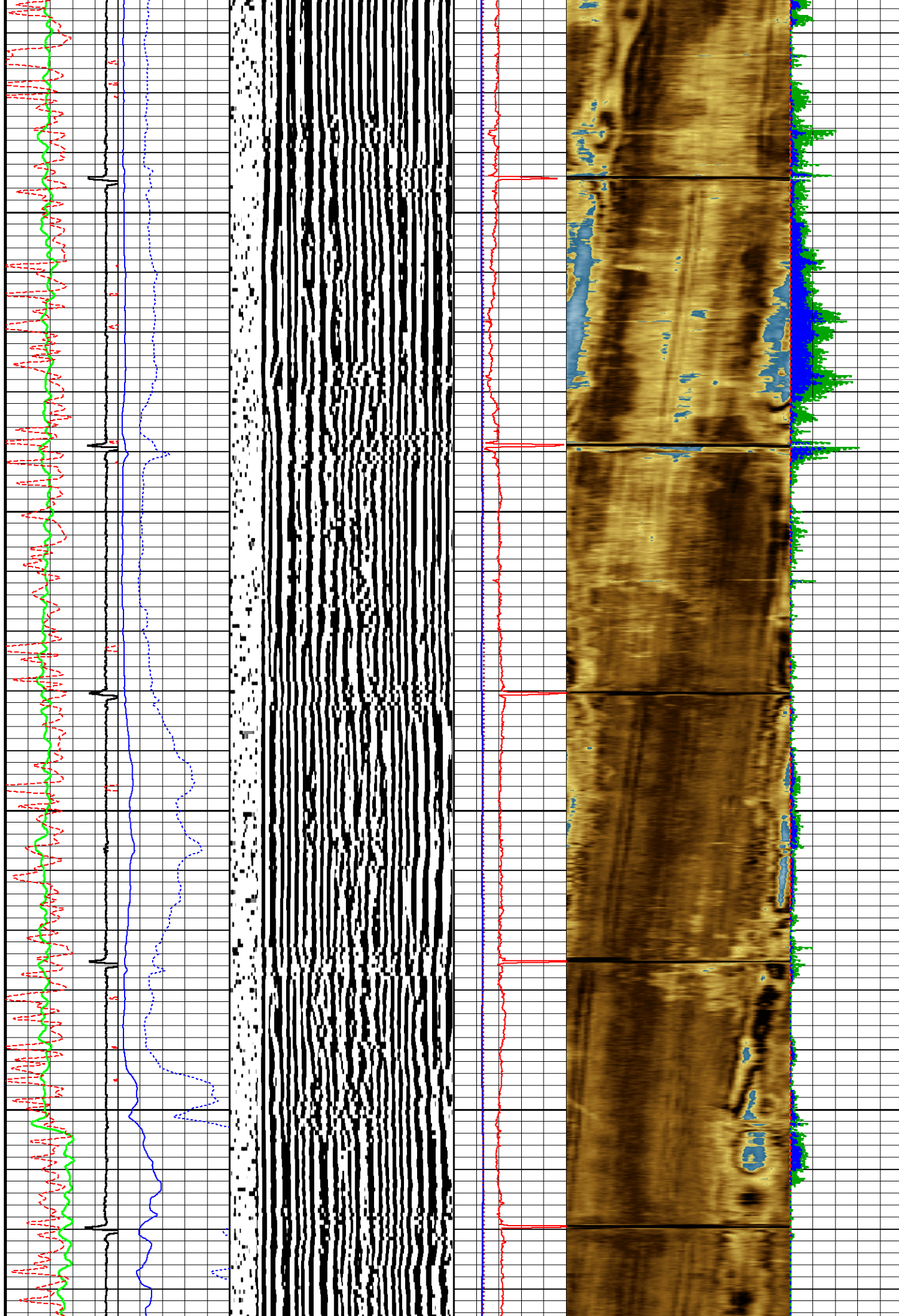


1450

1500

1550

1600



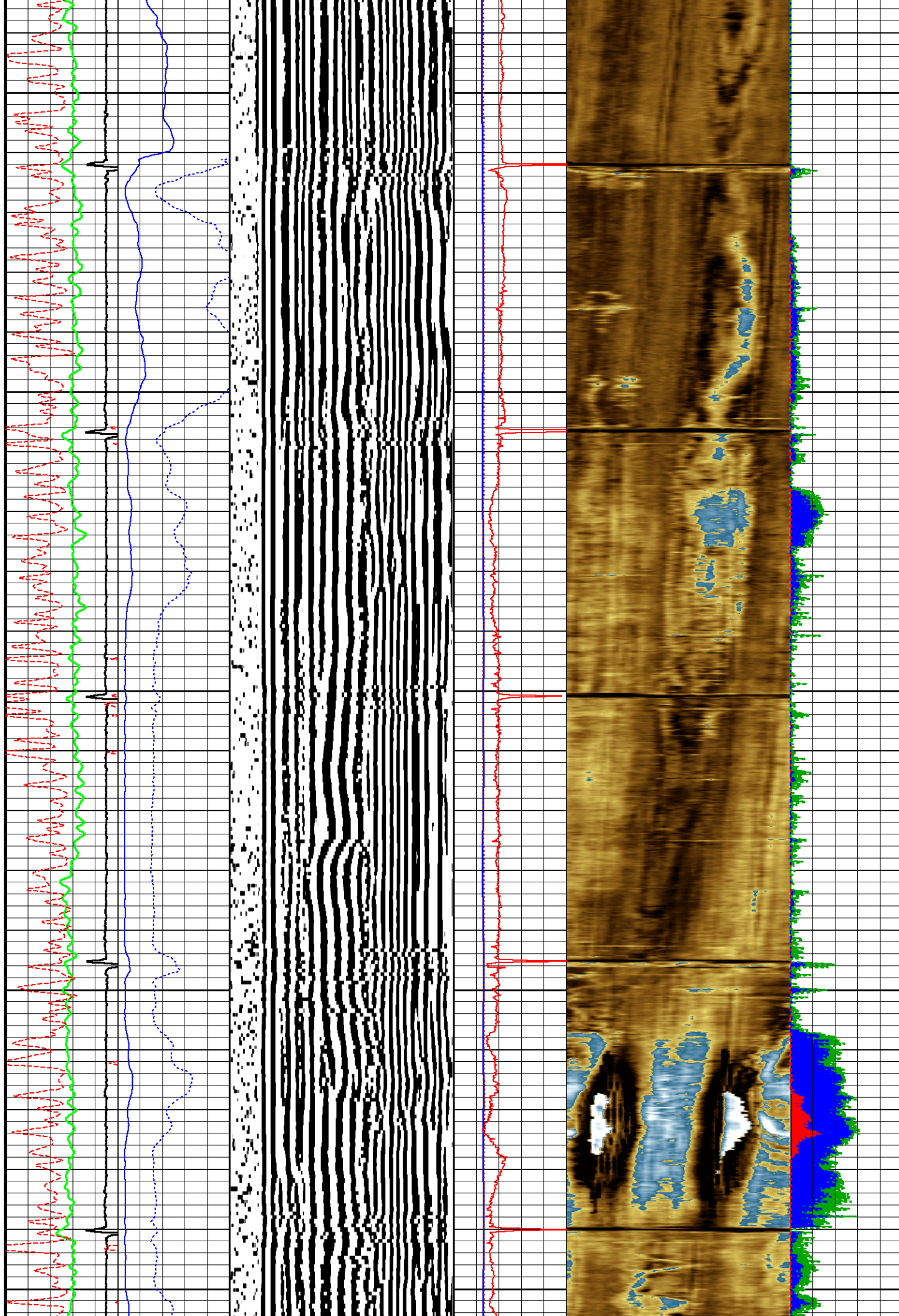
1650

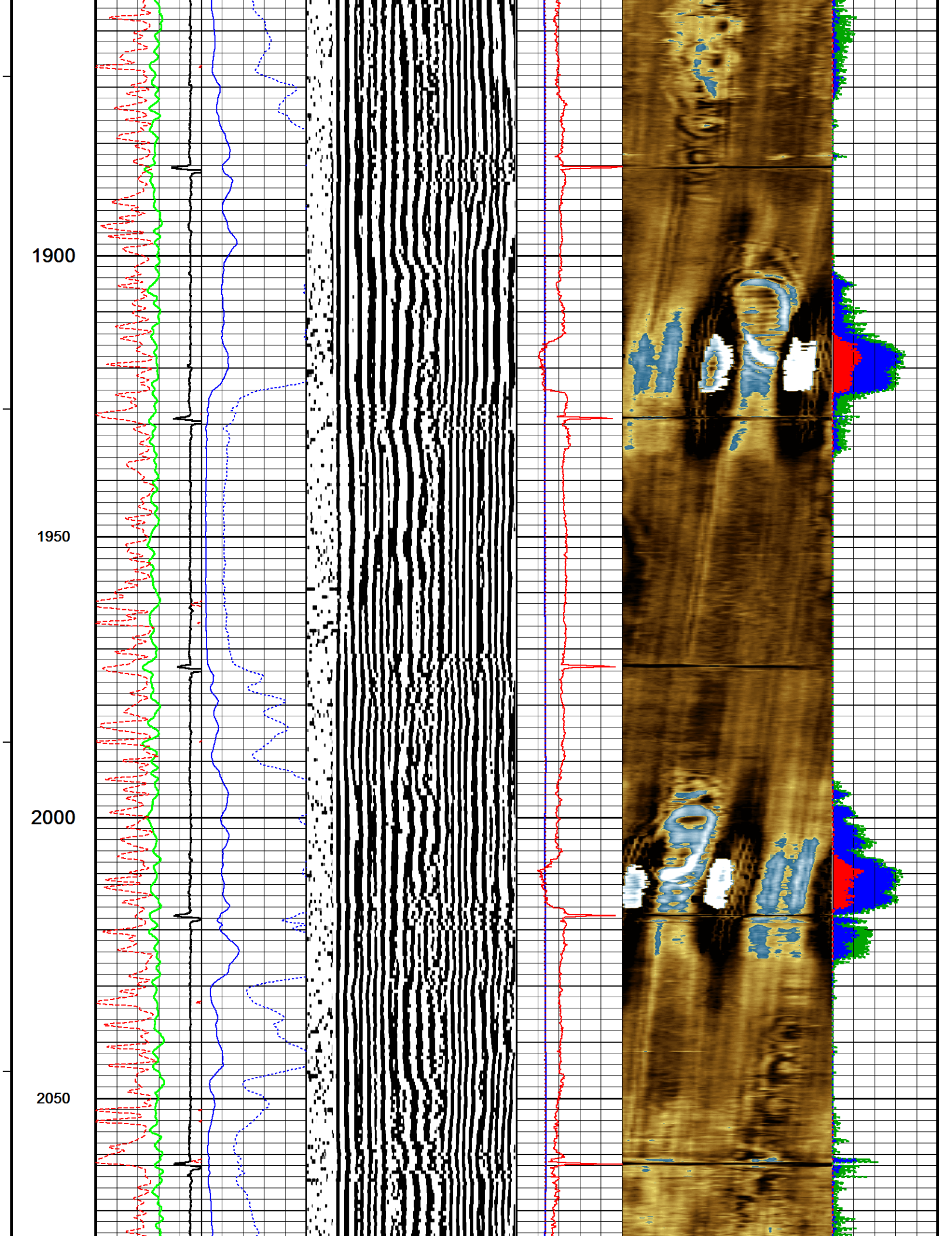
1700

1750

1800

1850



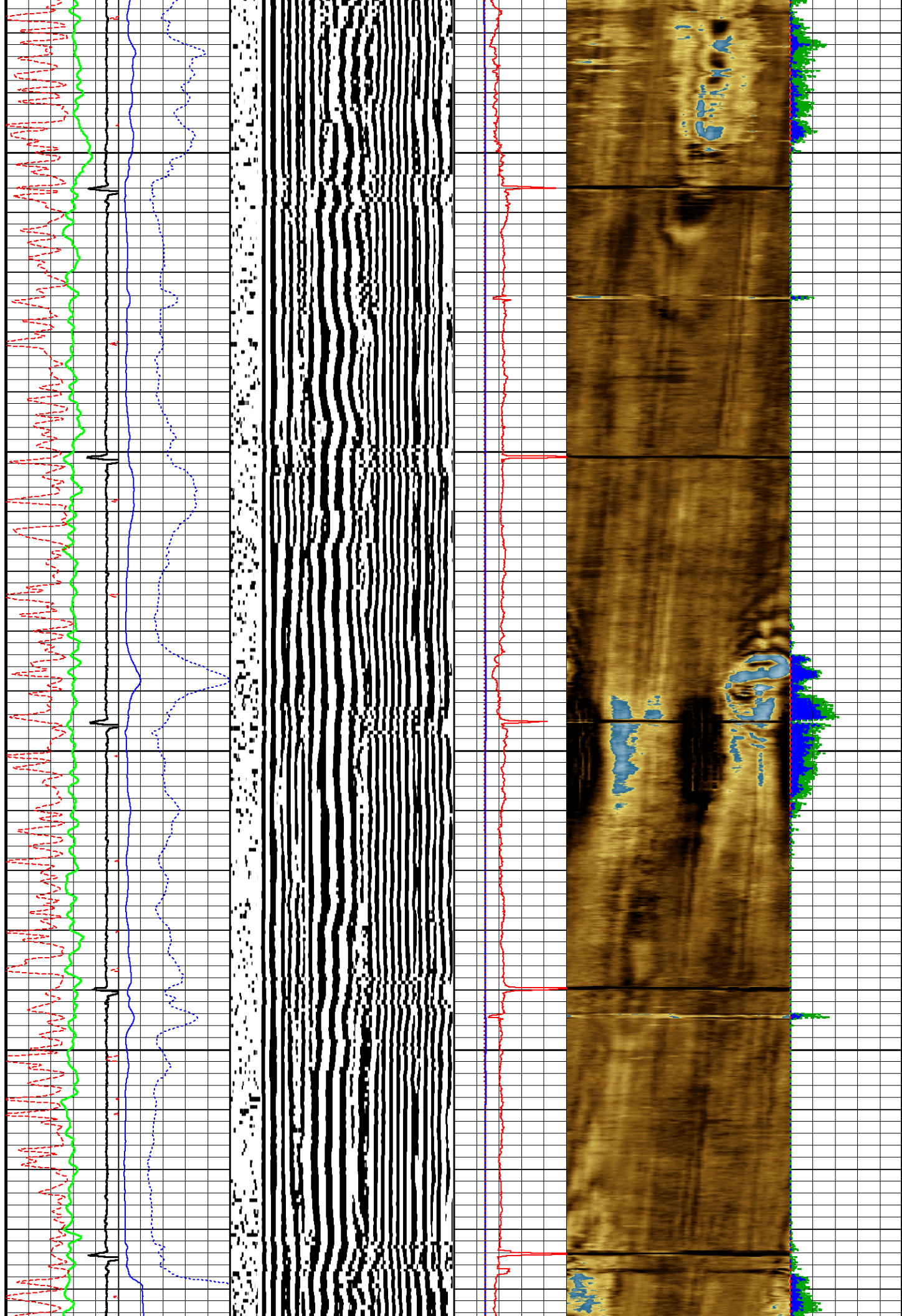


2100

2150

2200

2250



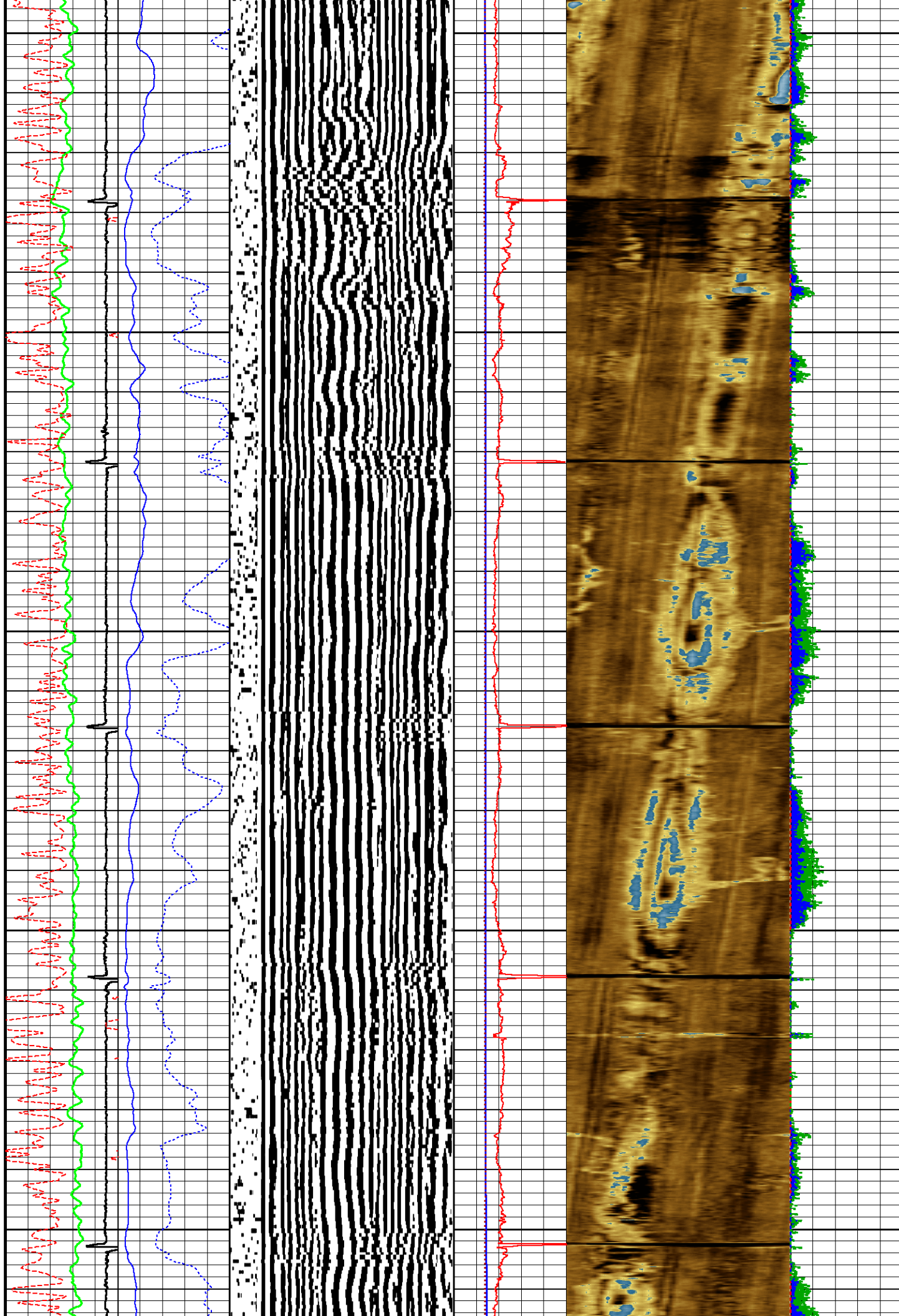
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2350

2400

2450

2500

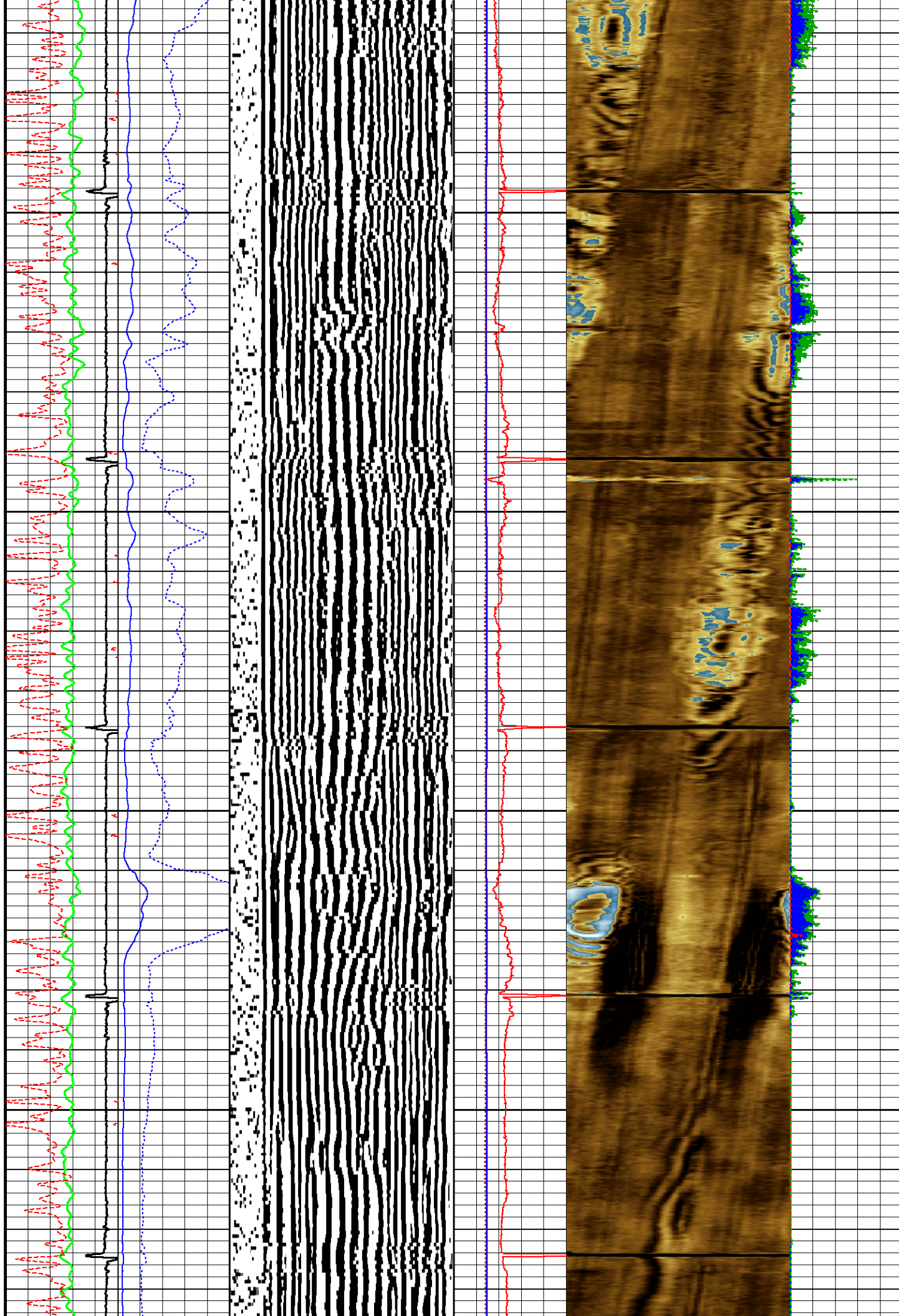


2550

2600

2650

2700



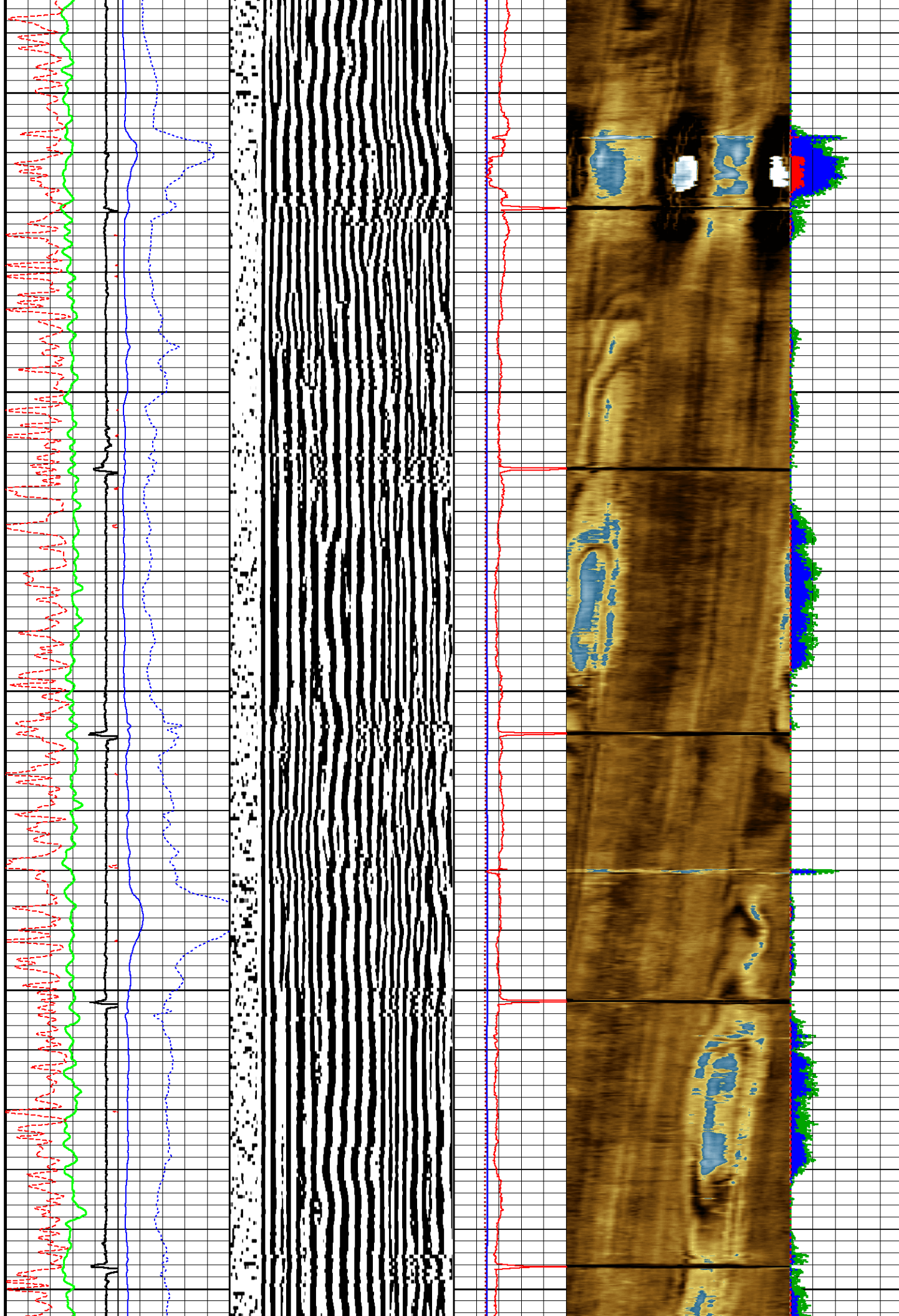
2750

2800

2850

2900

2950

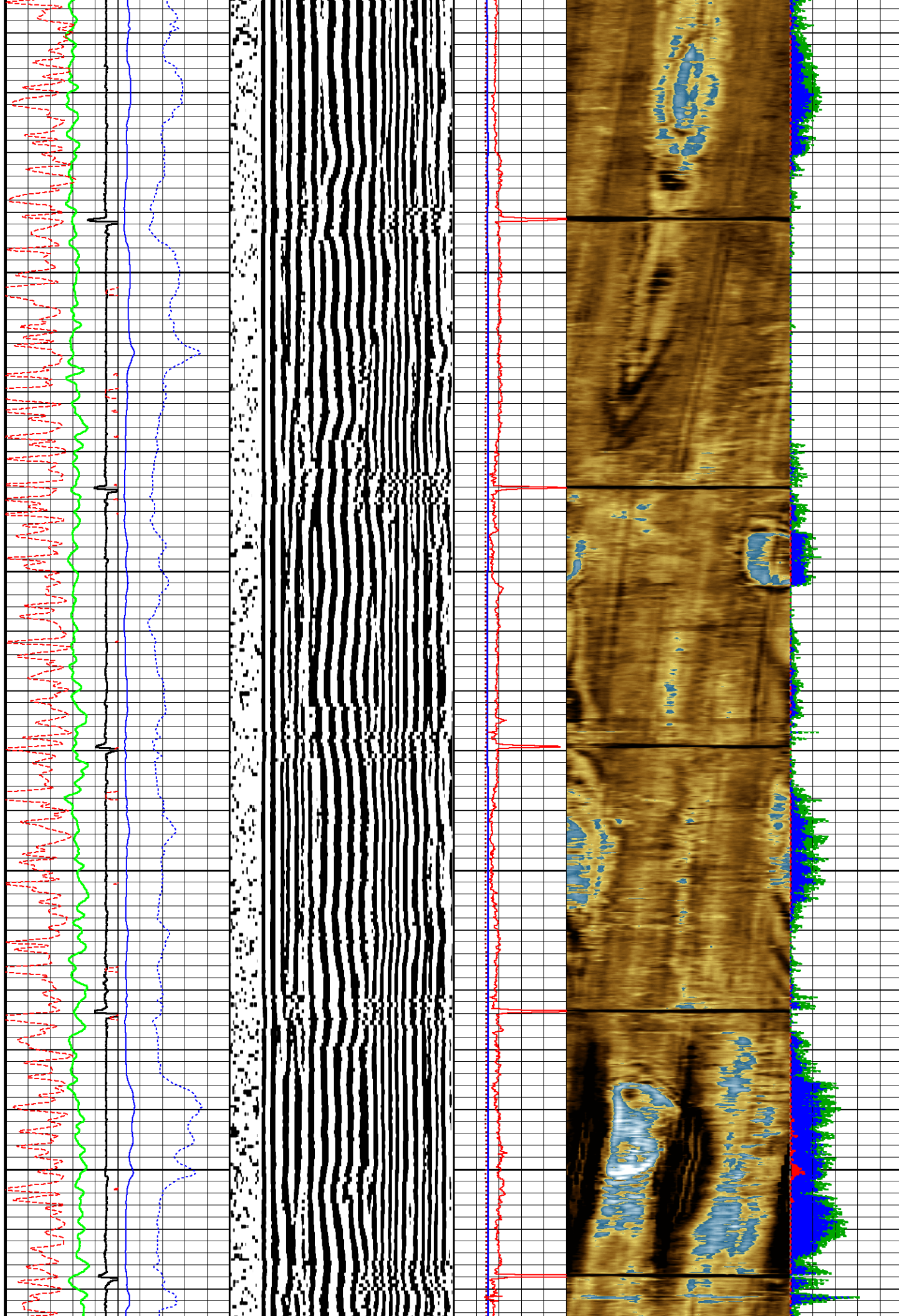


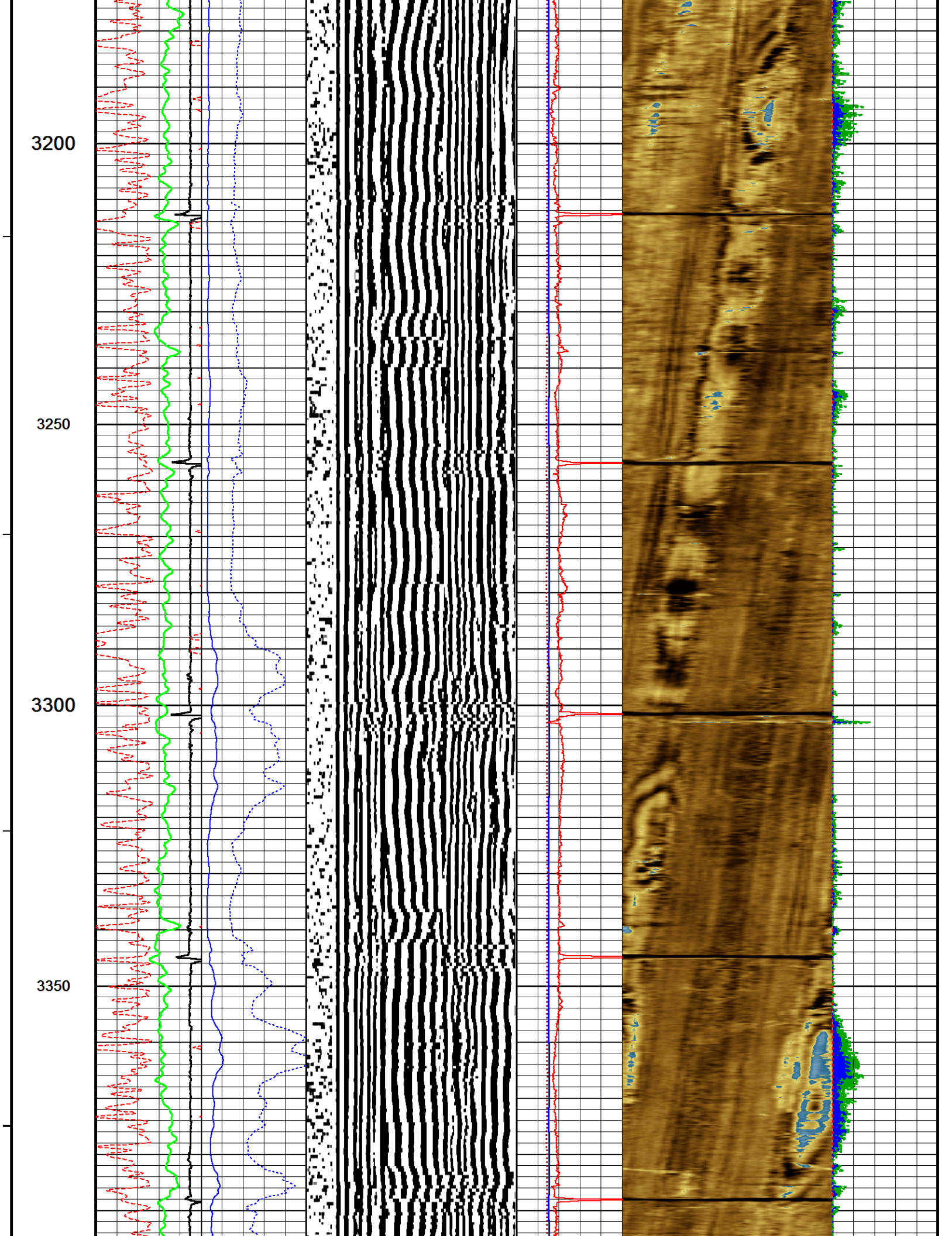
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3050

3100

3150





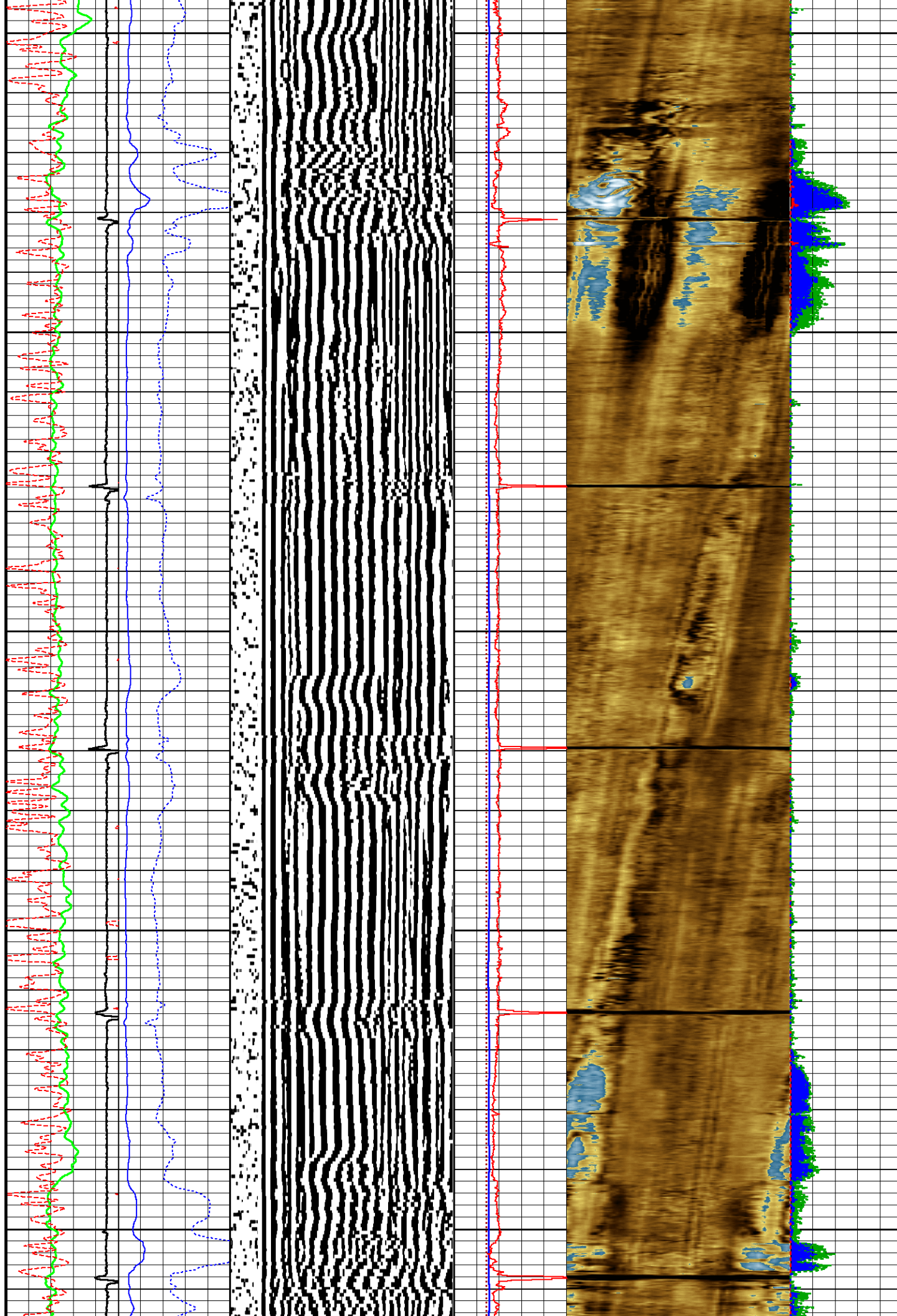
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3450

3500

3550

3600

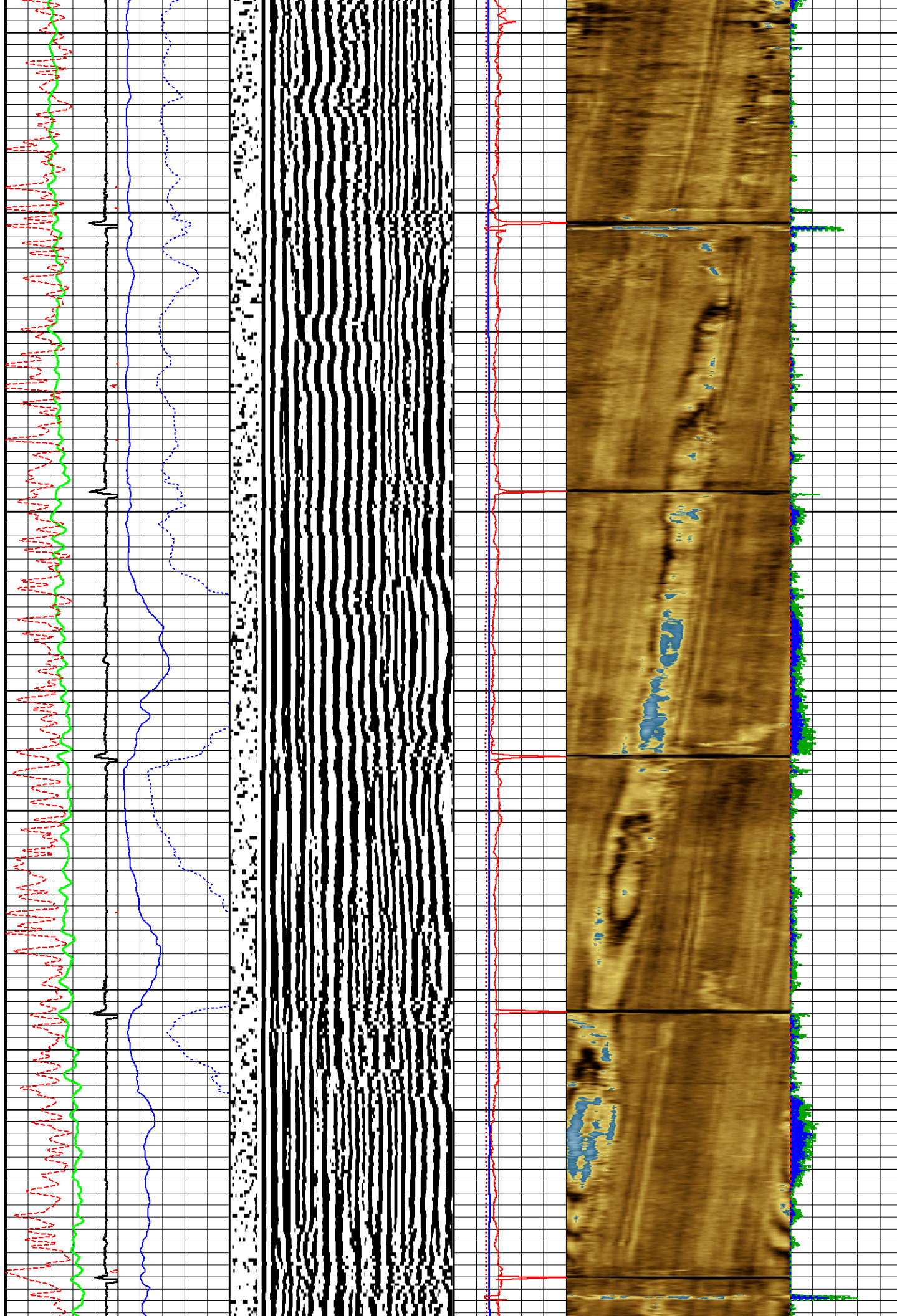


3650

3700

3750

3800



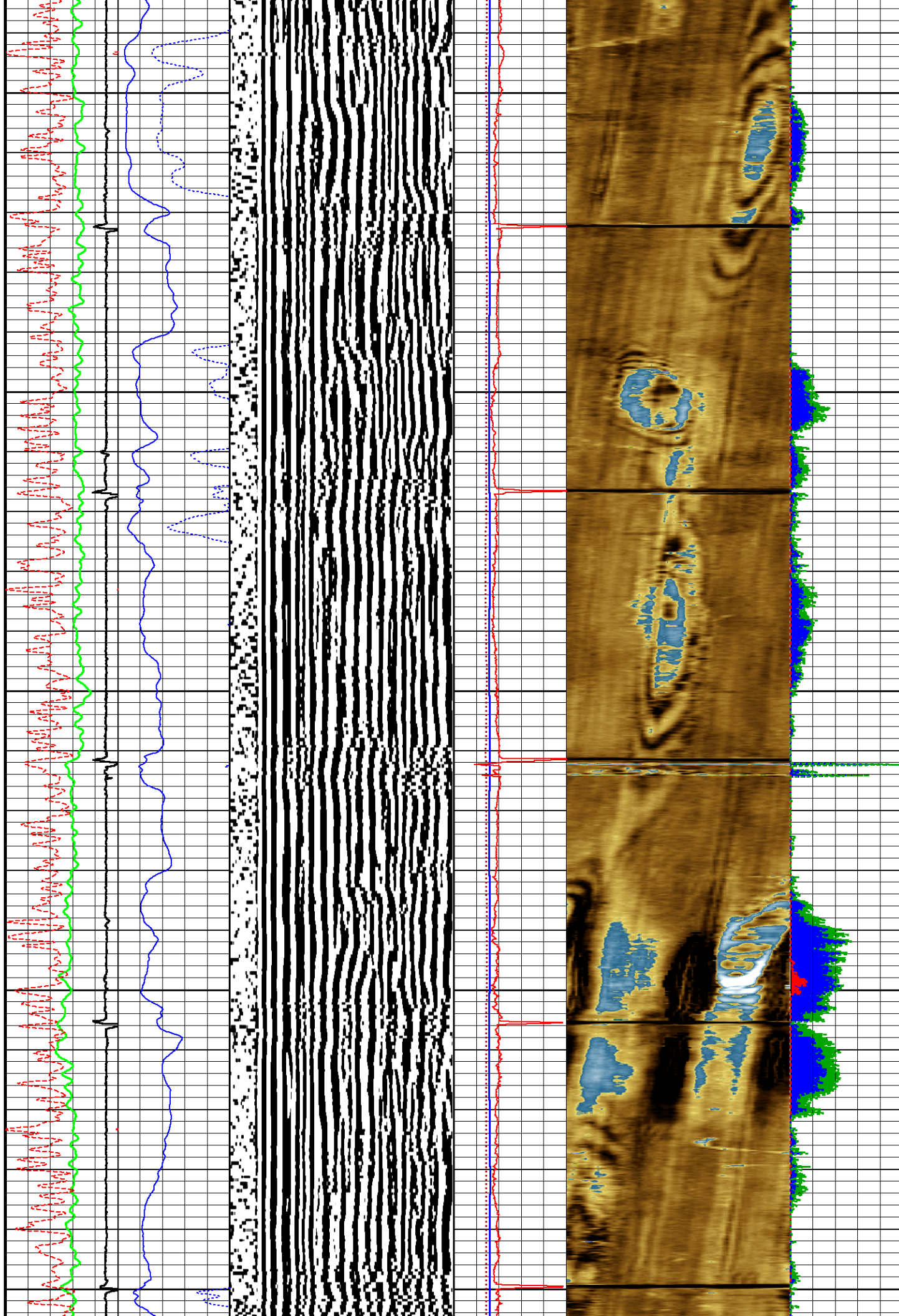
3850

3900

3950

4000

4050

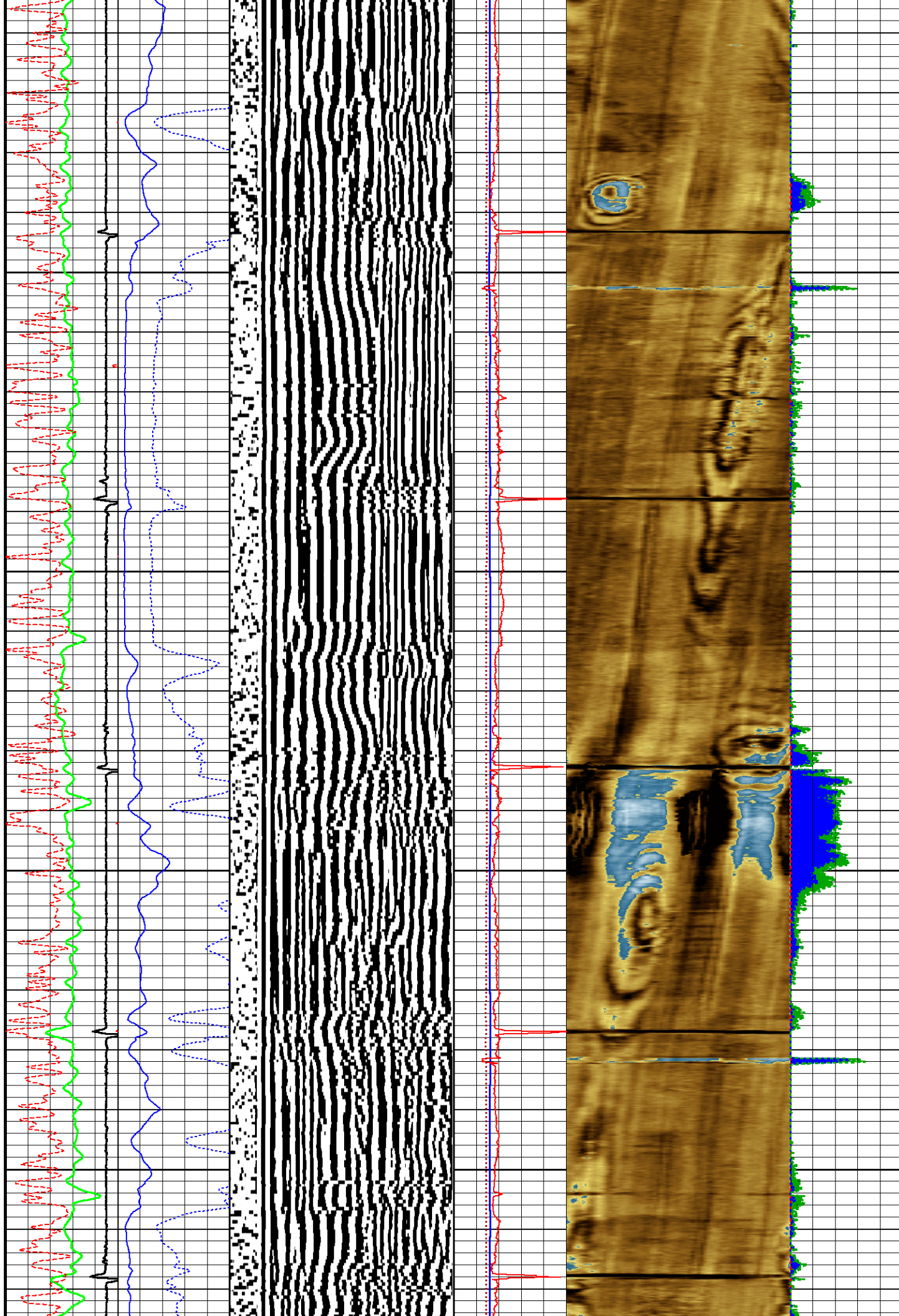


4100

4150

4200

4250

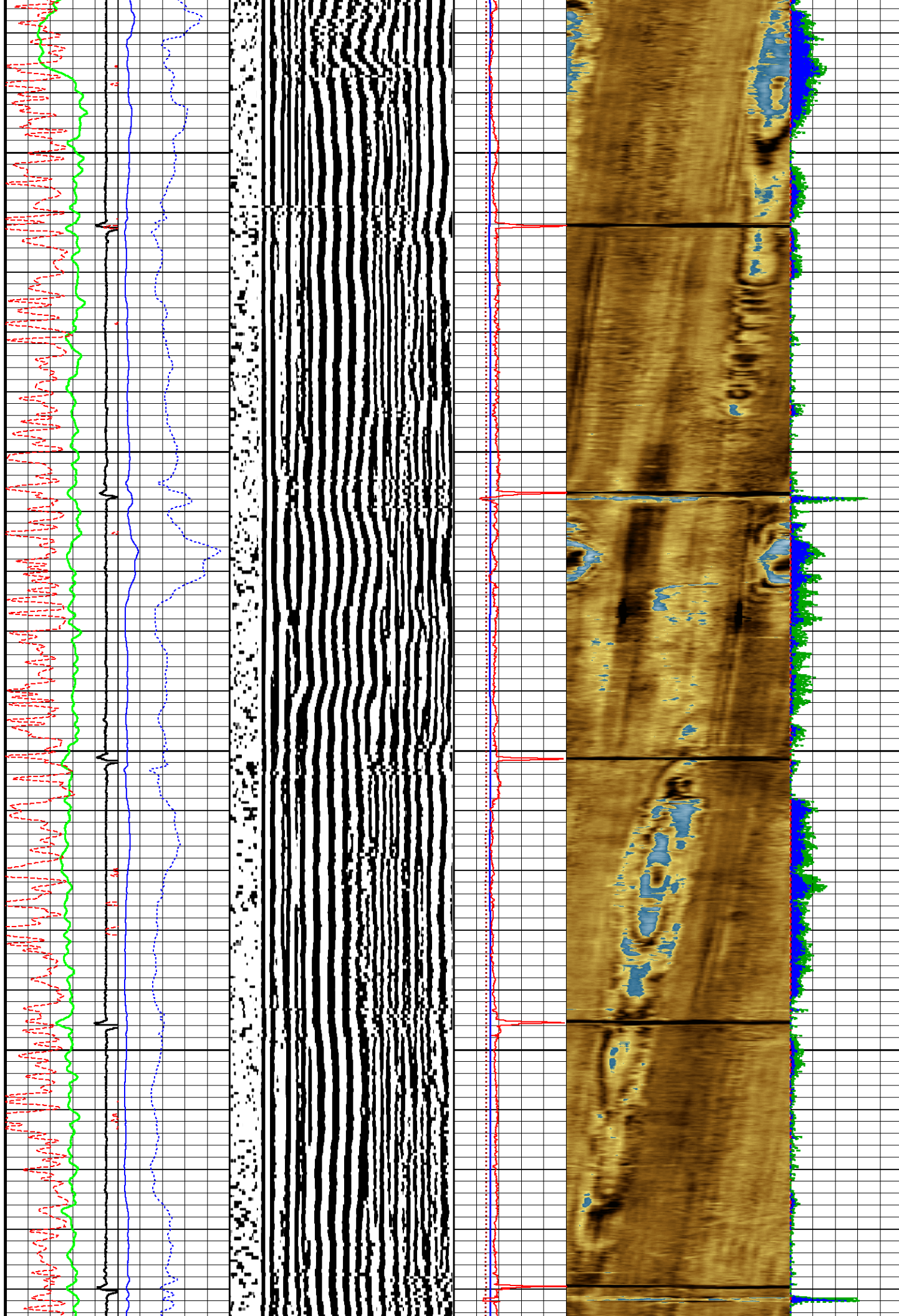


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4350

4400

4450



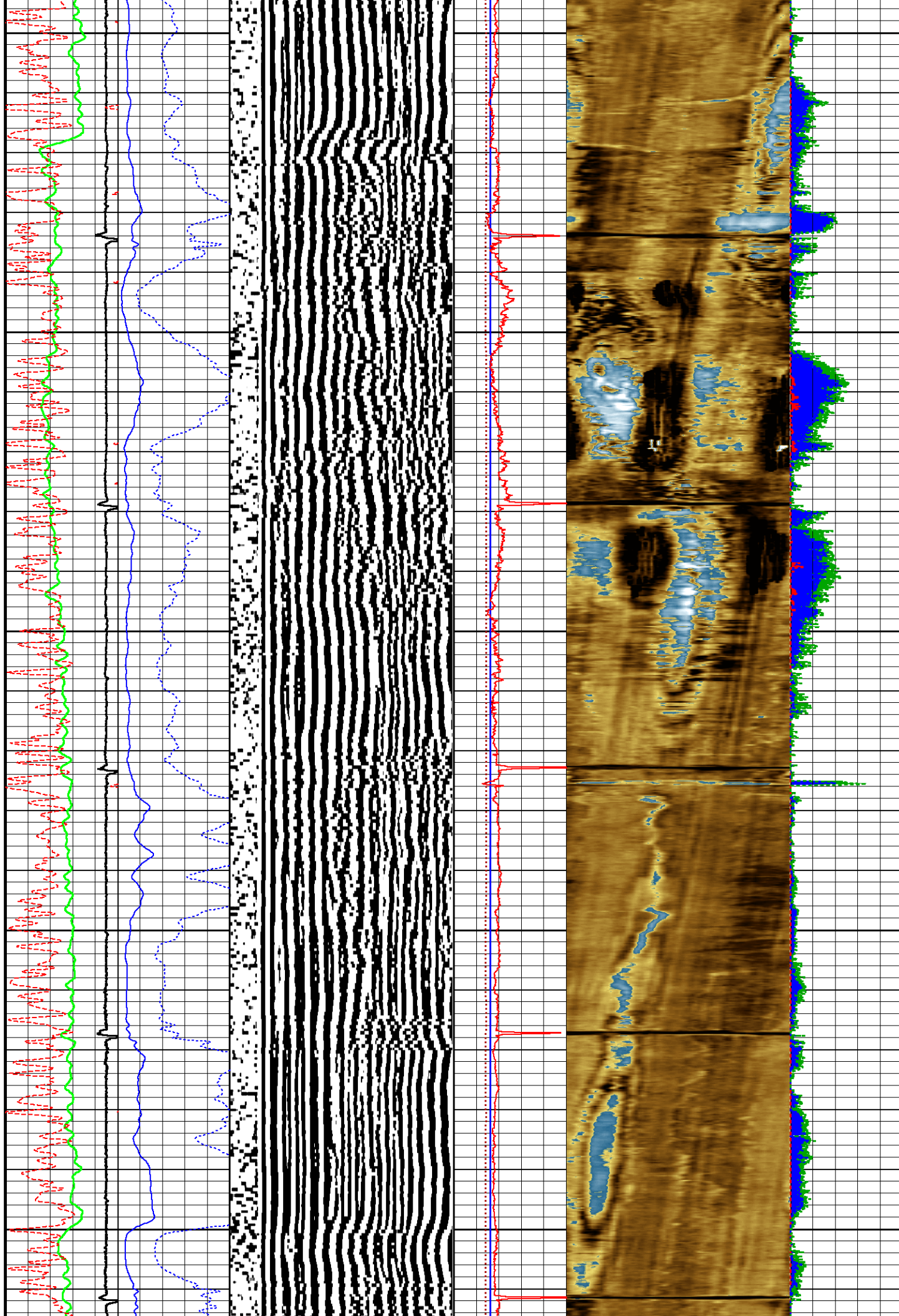
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4550

4600

4650

4700

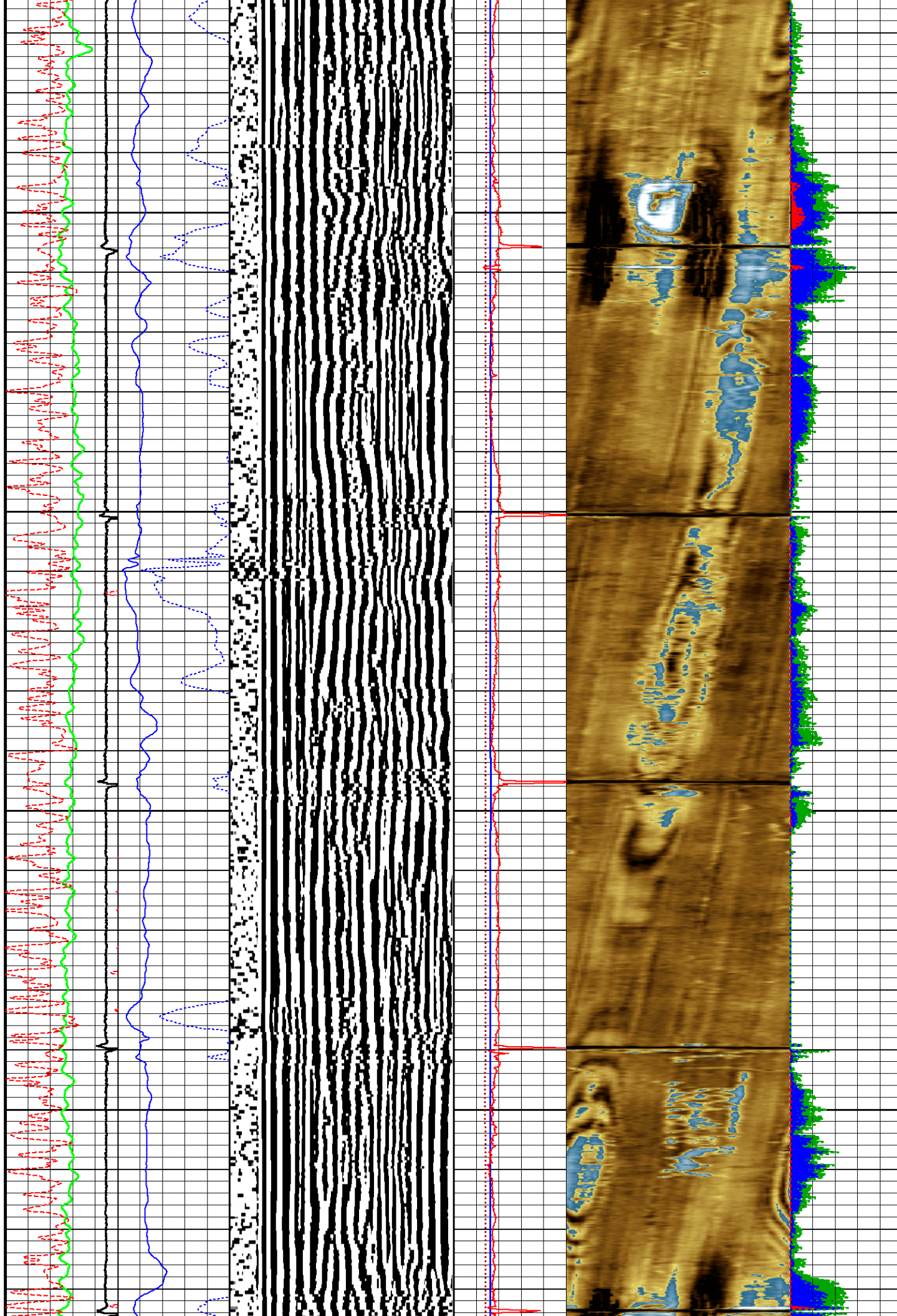


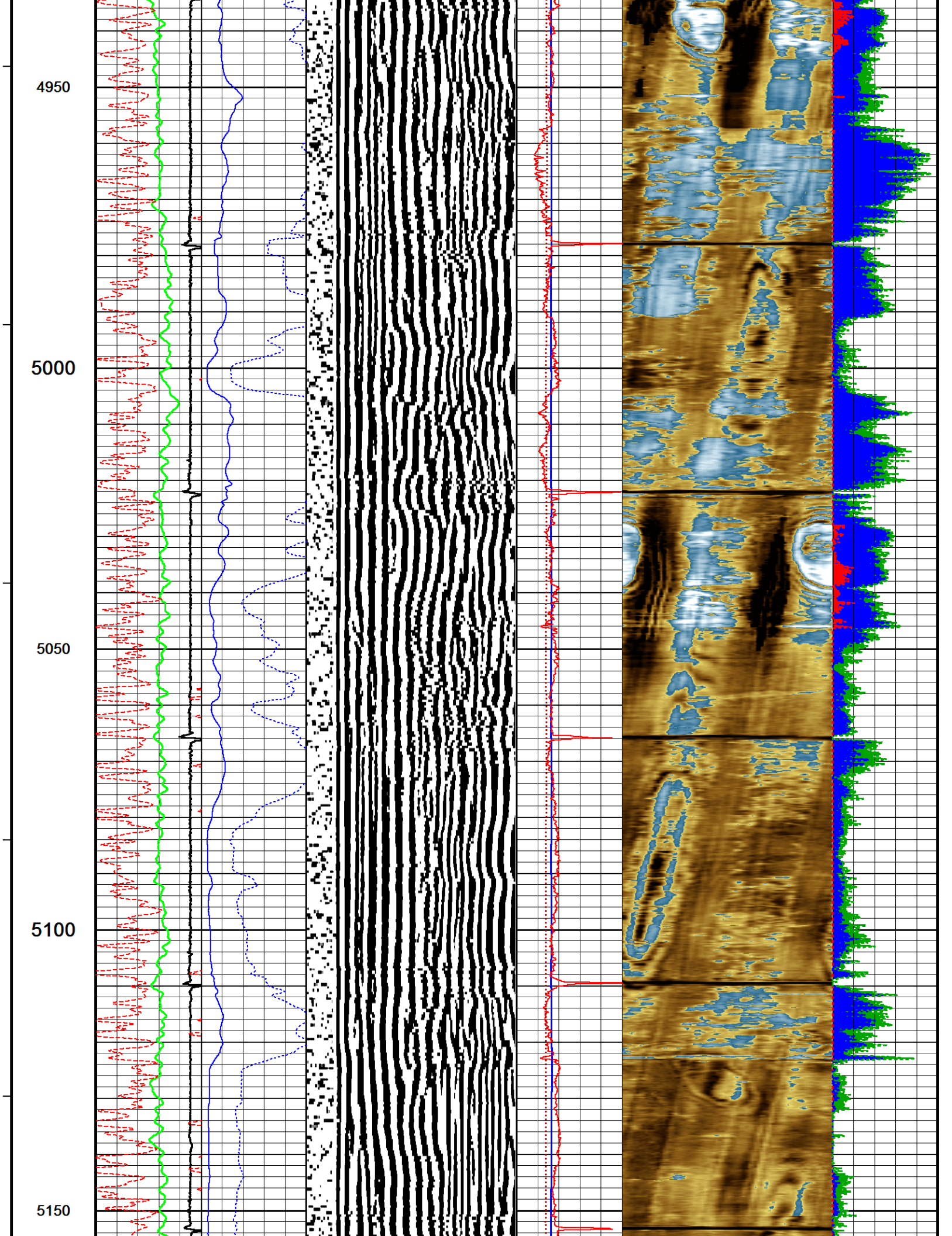
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4800

4850

4900



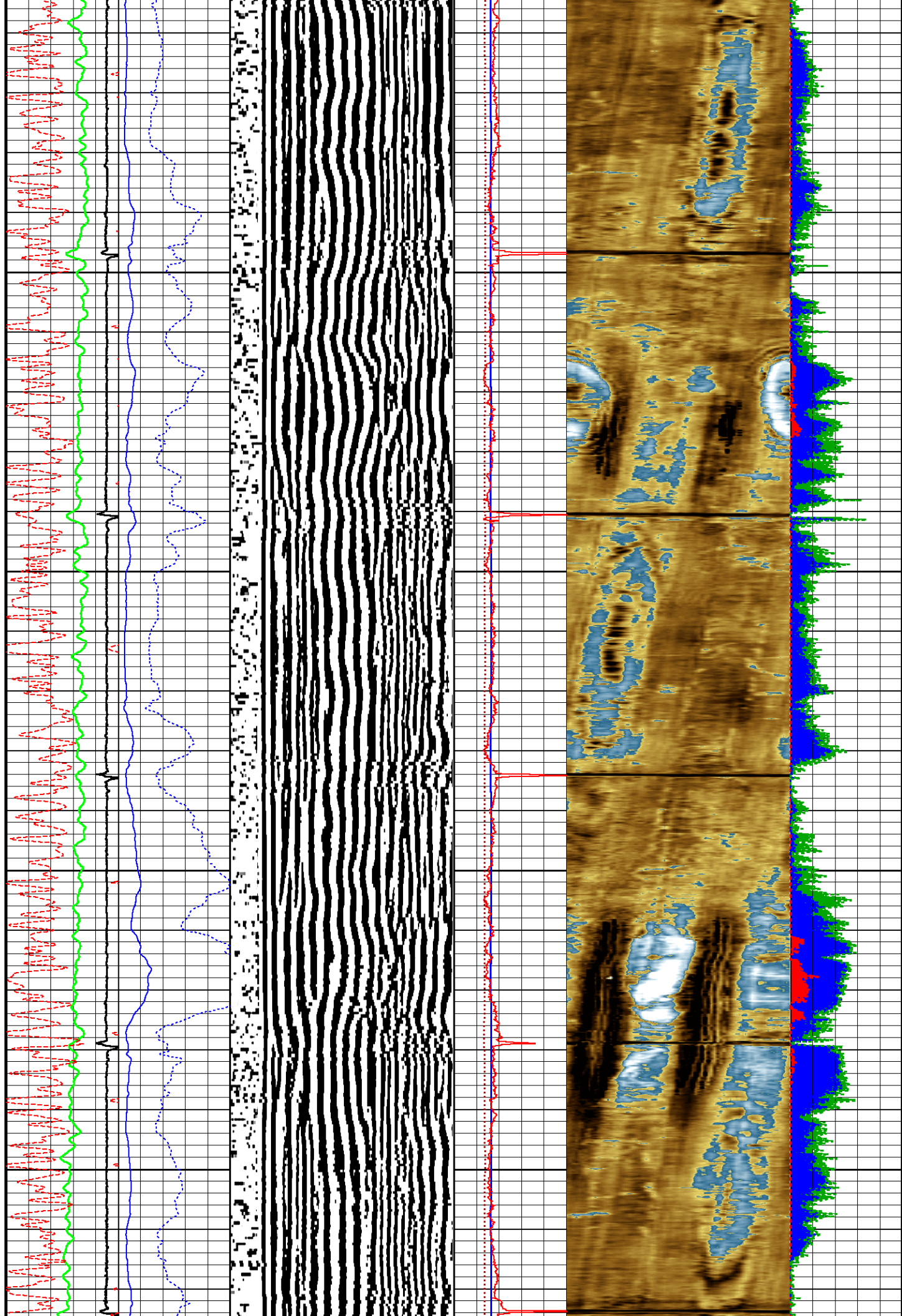


5200

5250

5300

5350

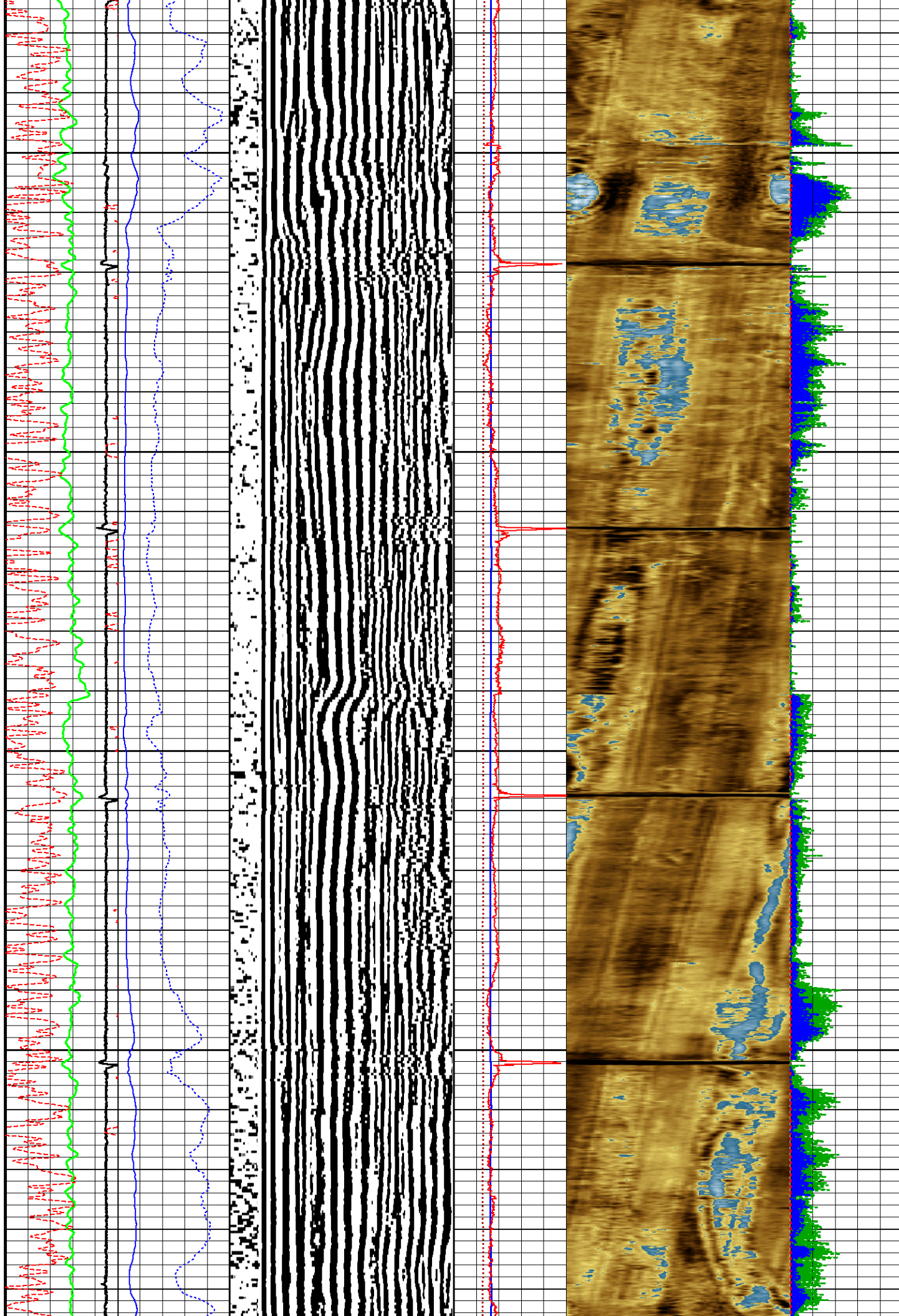


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5450

5500

5550



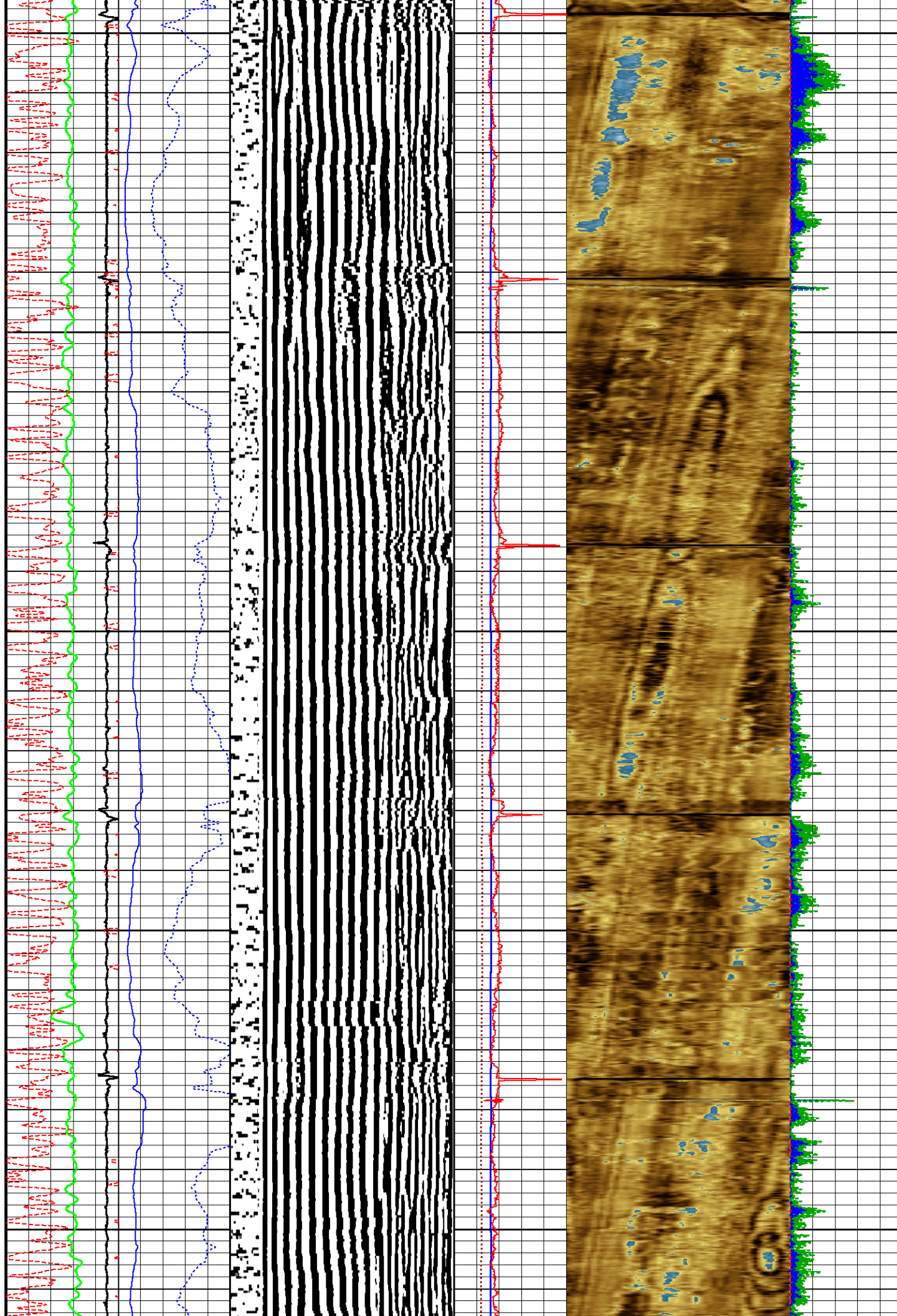
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5650

5700

5750

5800

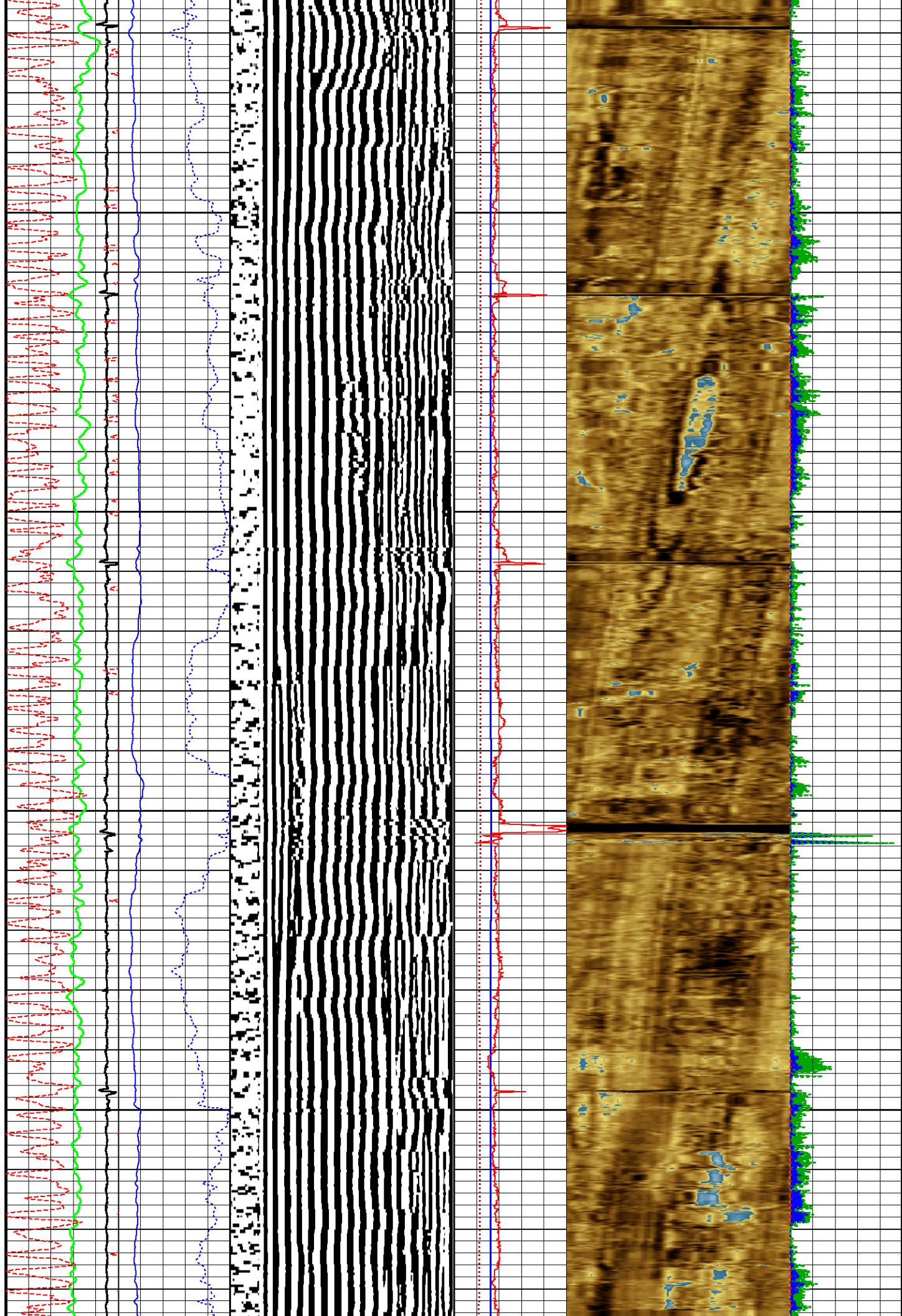


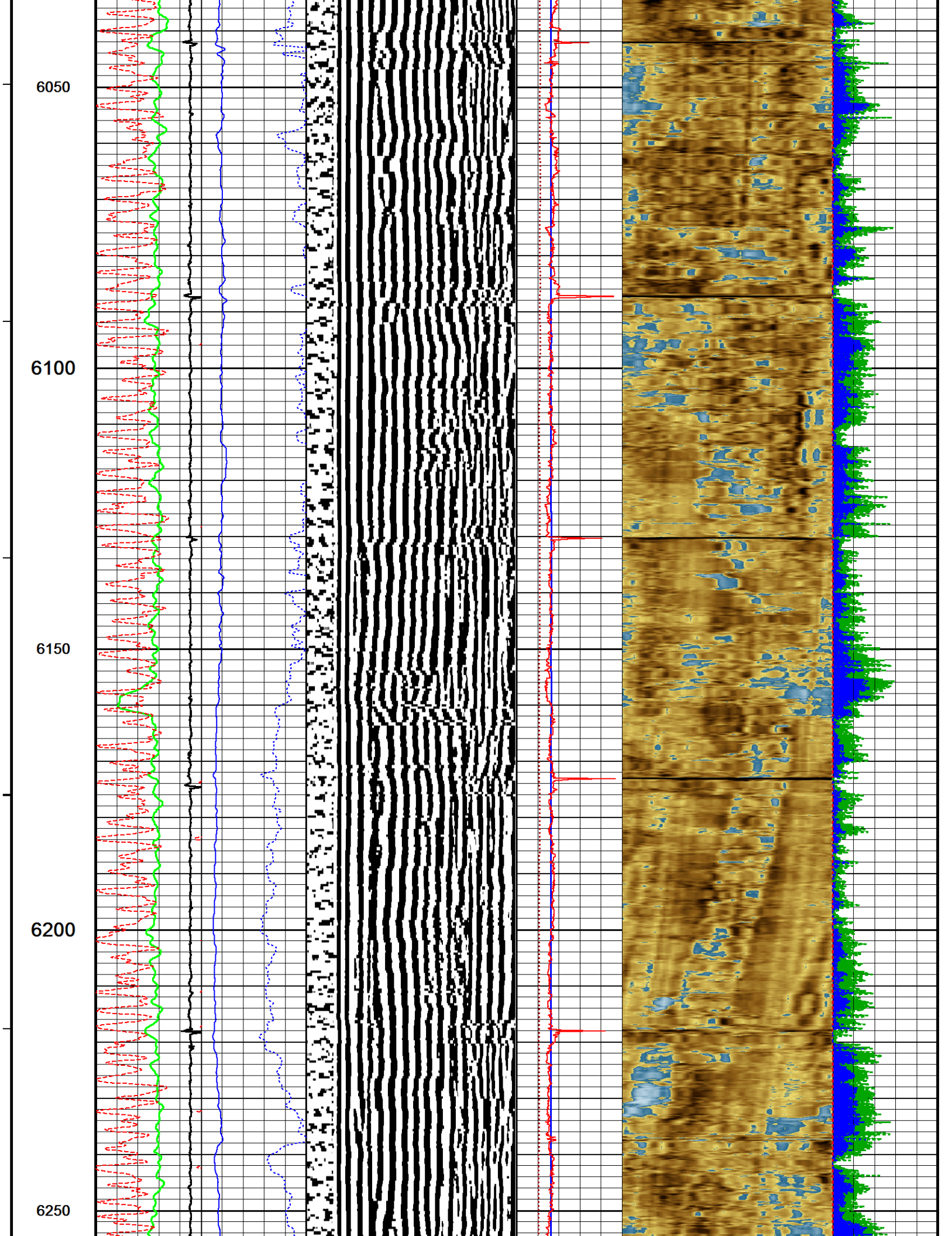
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5900

5950

6000



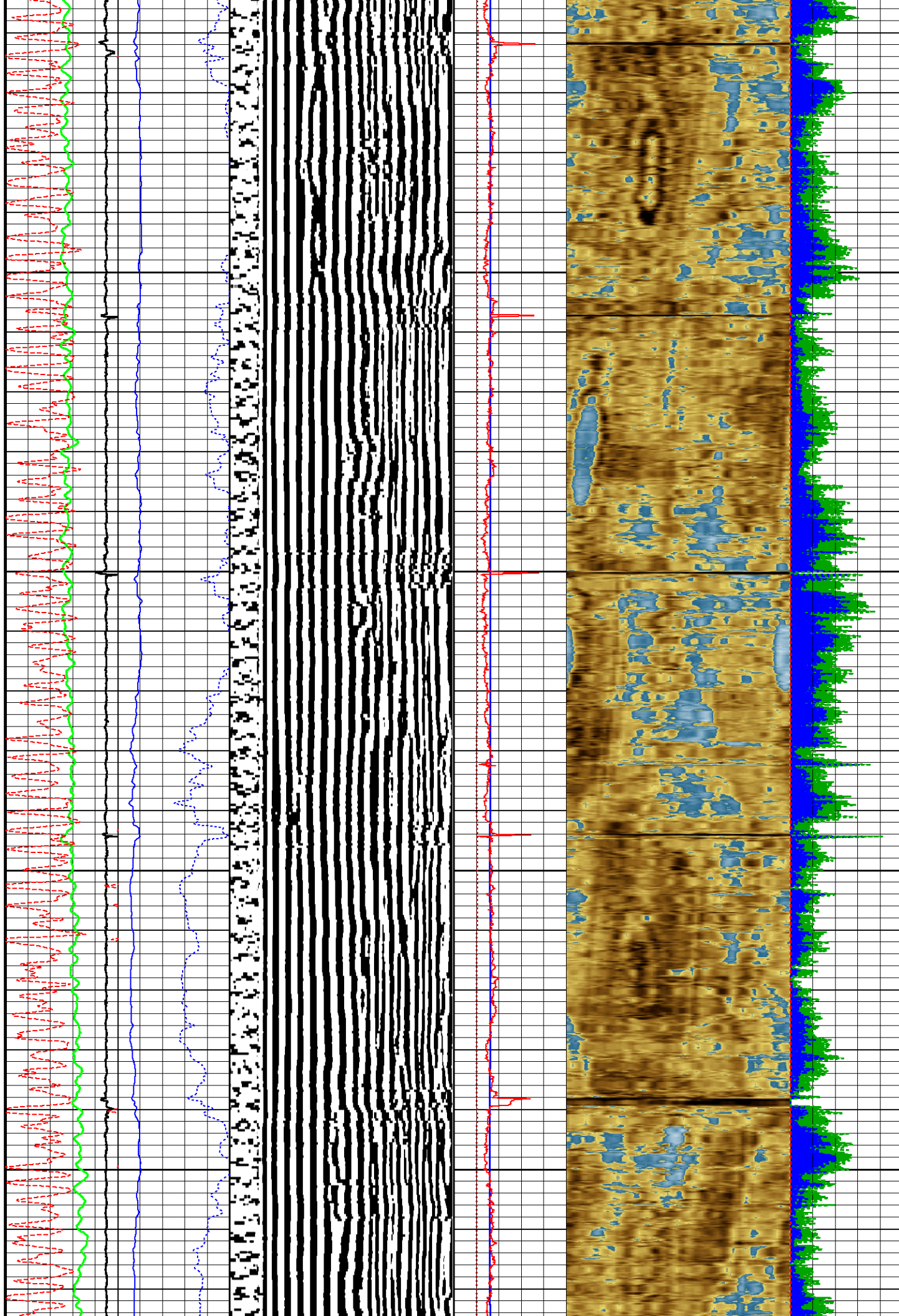


6300

6350

6400

6450



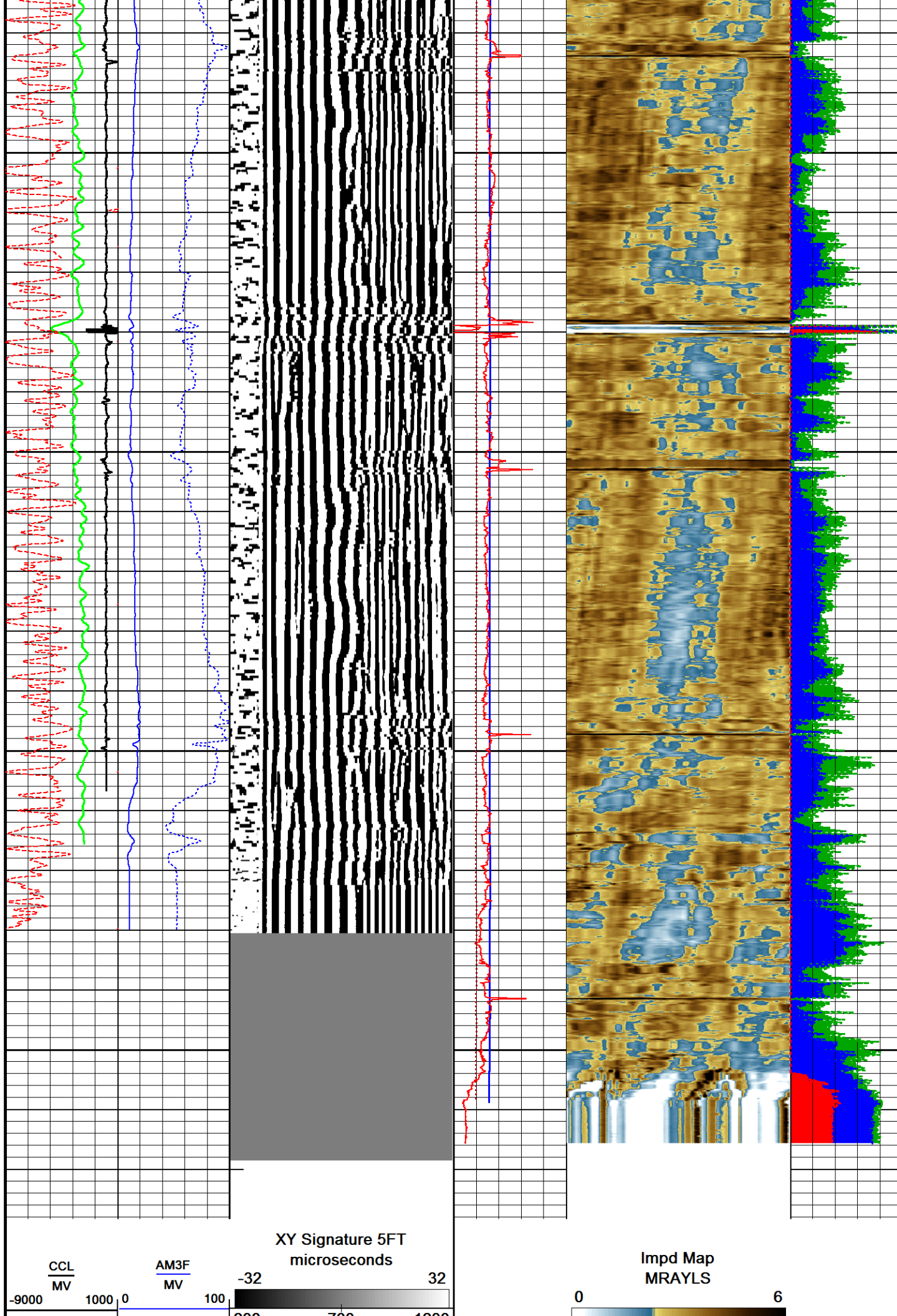
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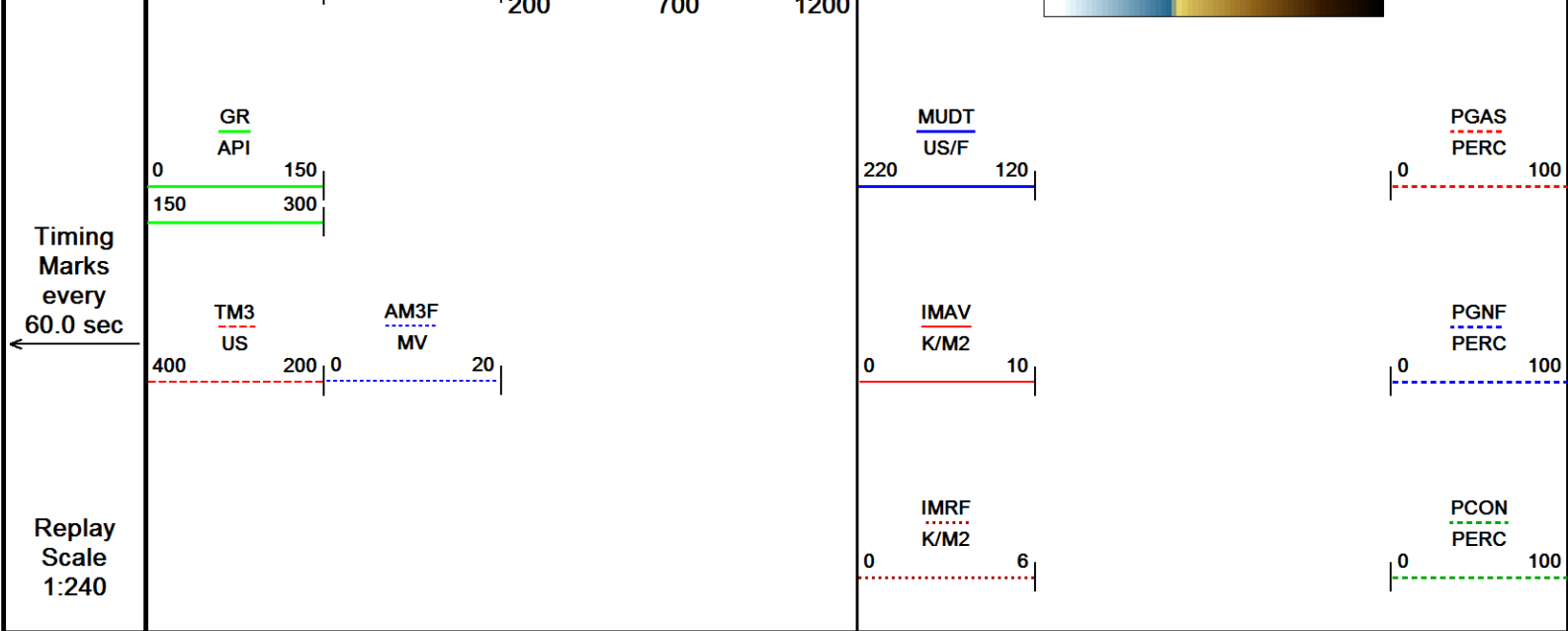
6550

6600

6650

Depth
in
Feet





Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Logs\Extraction\VARRA 4\VARRA 4 MAIN PASS.dta

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

Plotted on 05-DEC-2016 21:25

Recorded on 05-DEC-2016 07:23

MAIN PASS

REPEAT PASS

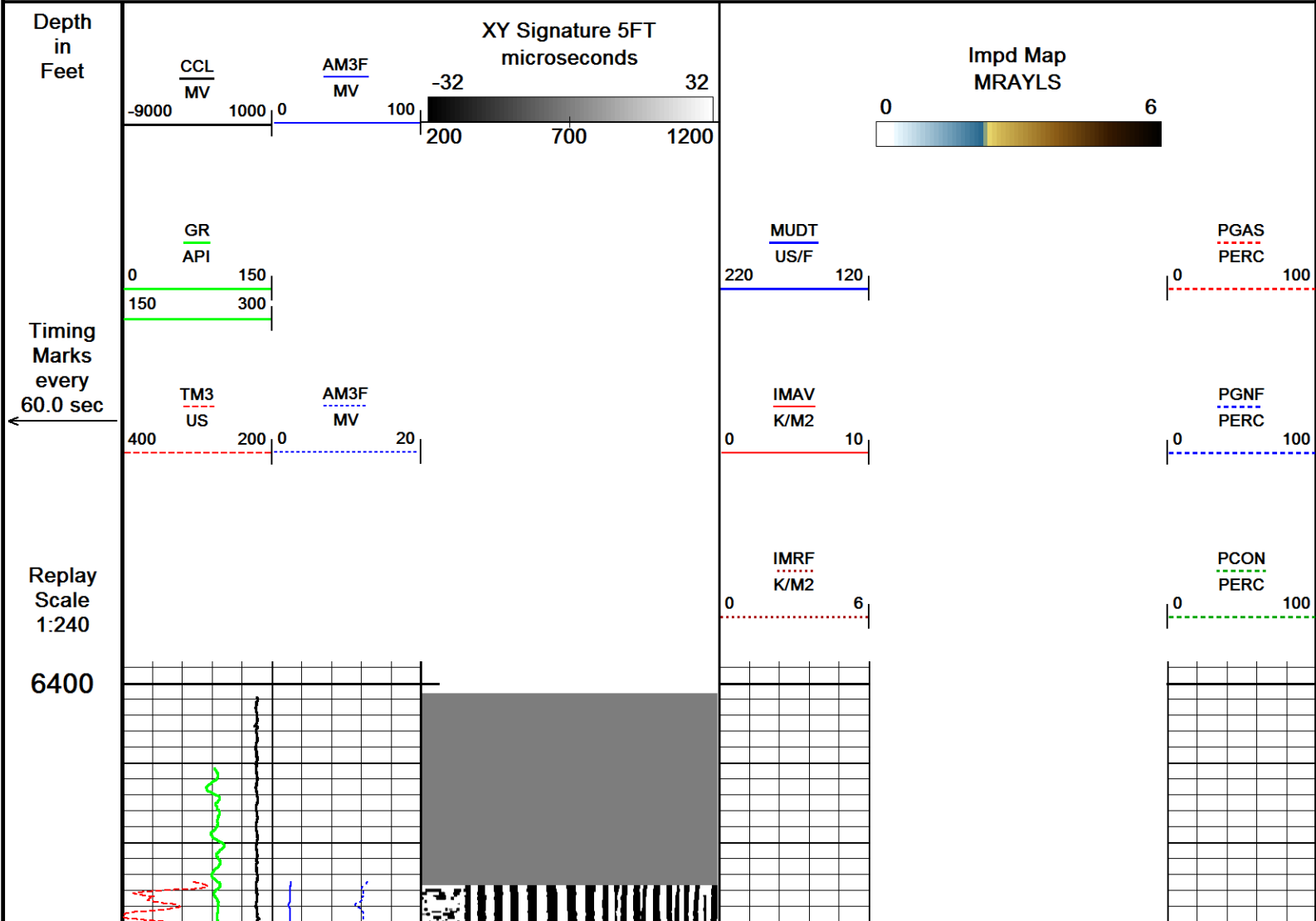
Depth Based Data - Maximum Sampling Increment 2.5cm

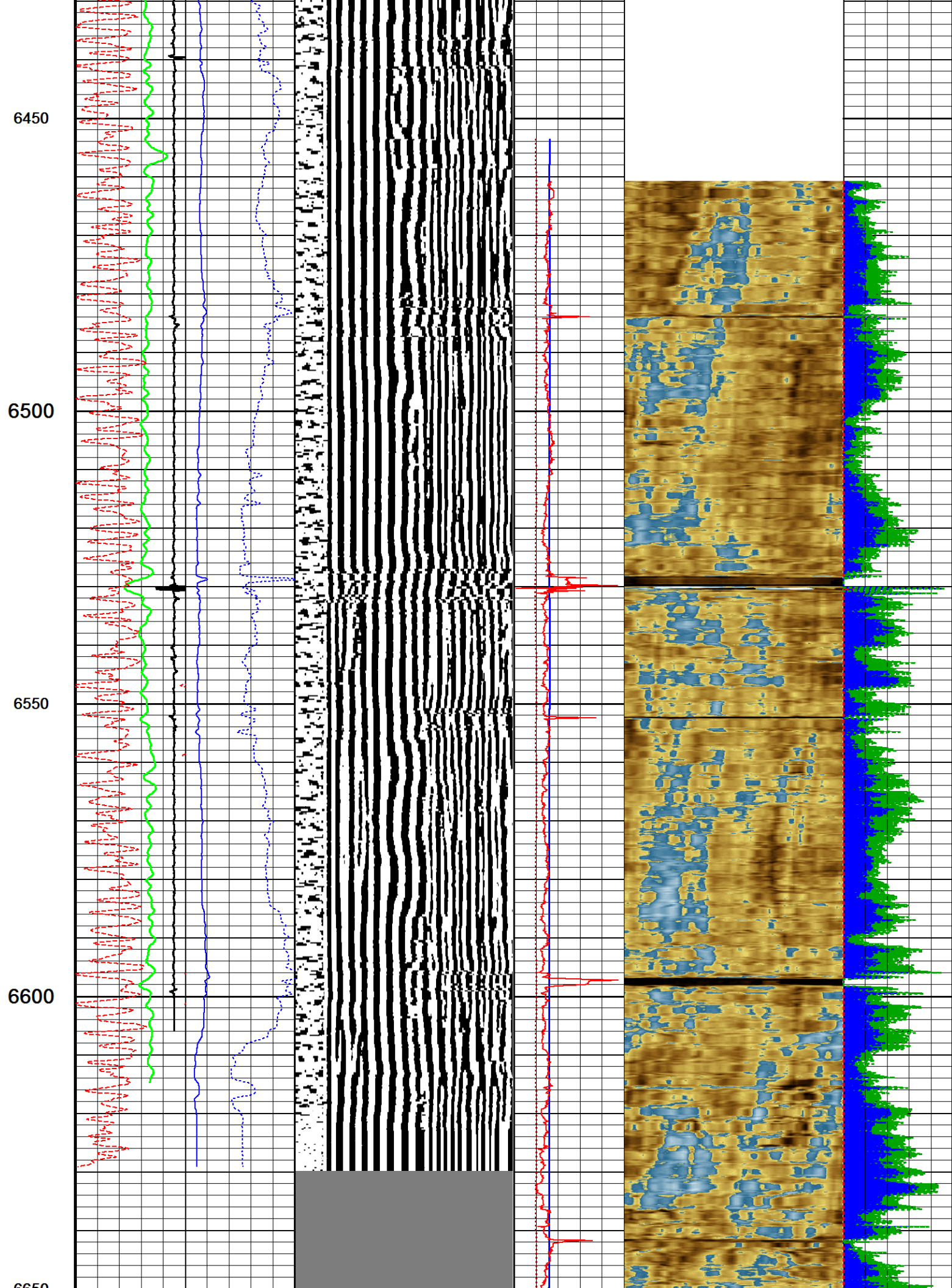
Filename: C:\Logs\Extraction\VARRA 4\VARRA 4 REPEAT PASS.dta

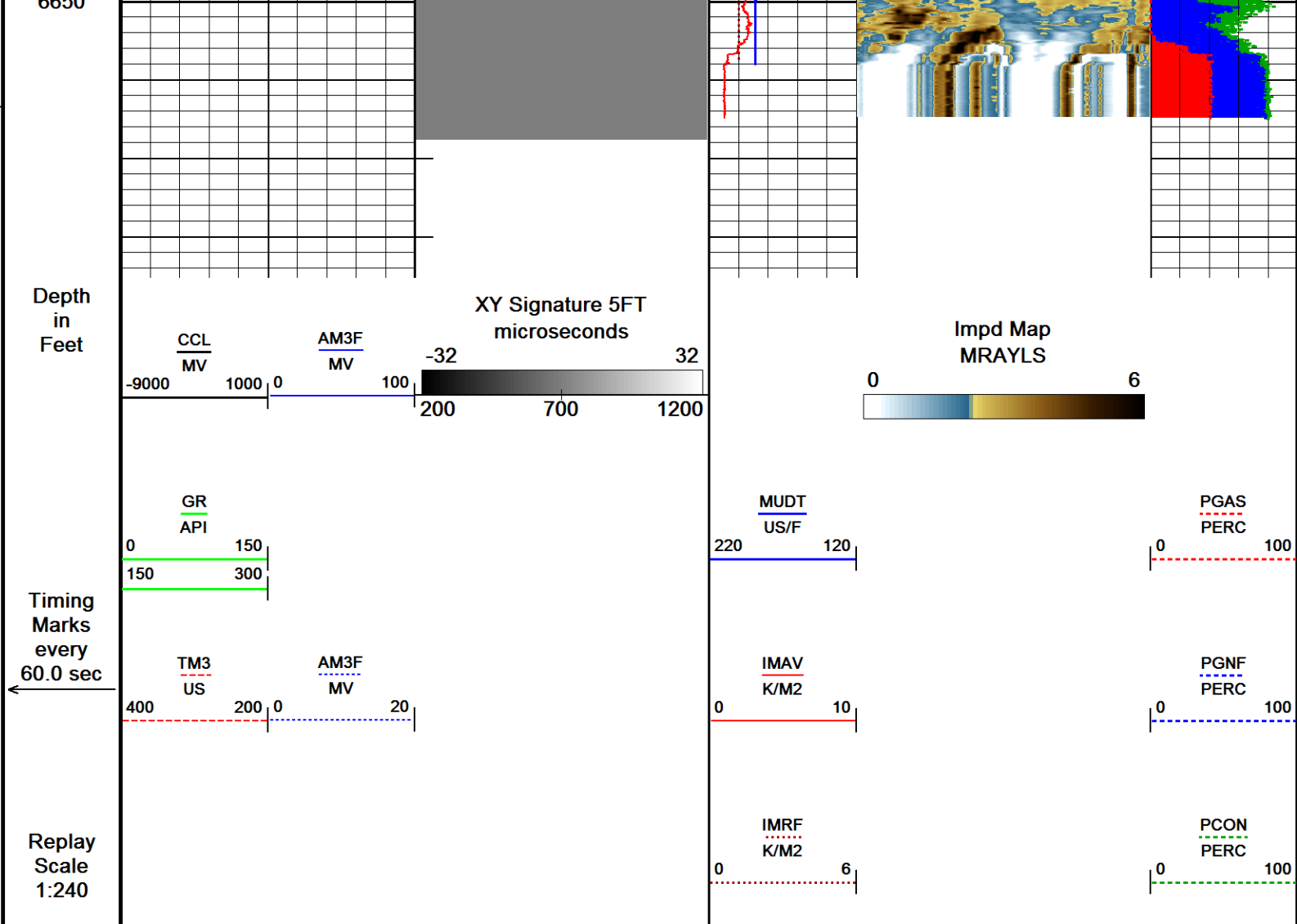
System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

Plotted on 05-DEC-2016 21:25

Recorded on 05-DEC-2016 07:11







Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Logs\Extraction\VARRA 4\VARRA 4 REPEAT PASS.dta

System Versions: Logged with 16.05.3841 Plotted with 16.05.3841

Plotted on 05-DEC-2016 21:25

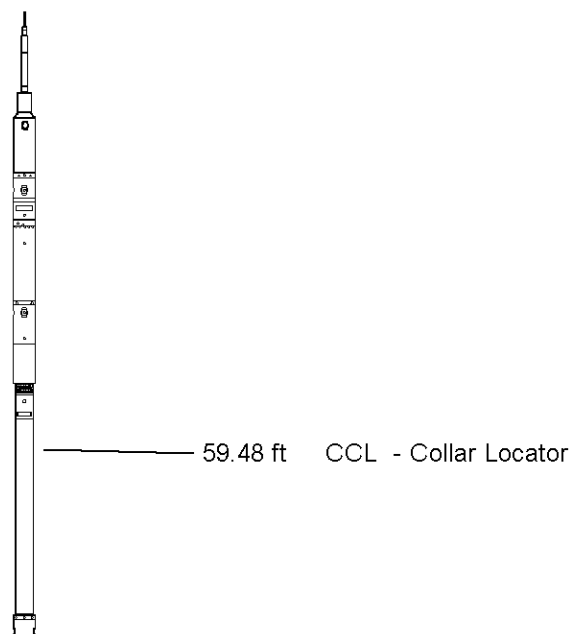
Recorded on 05-DEC-2016 07:11

↑ REPEAT PASS ↑

DOWNHOLE EQUIPMENT

C:\Logs\Extraction\VARRA 4\VARRA 4 MAIN PASS.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 173 LG: 2.72 ft WT: 77.2 lb OD: 3.346 in
- Casing Collar Locator, 55 pin
CCL-WA 142 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in
- Communication Cartridge 55pin 3-3/8in



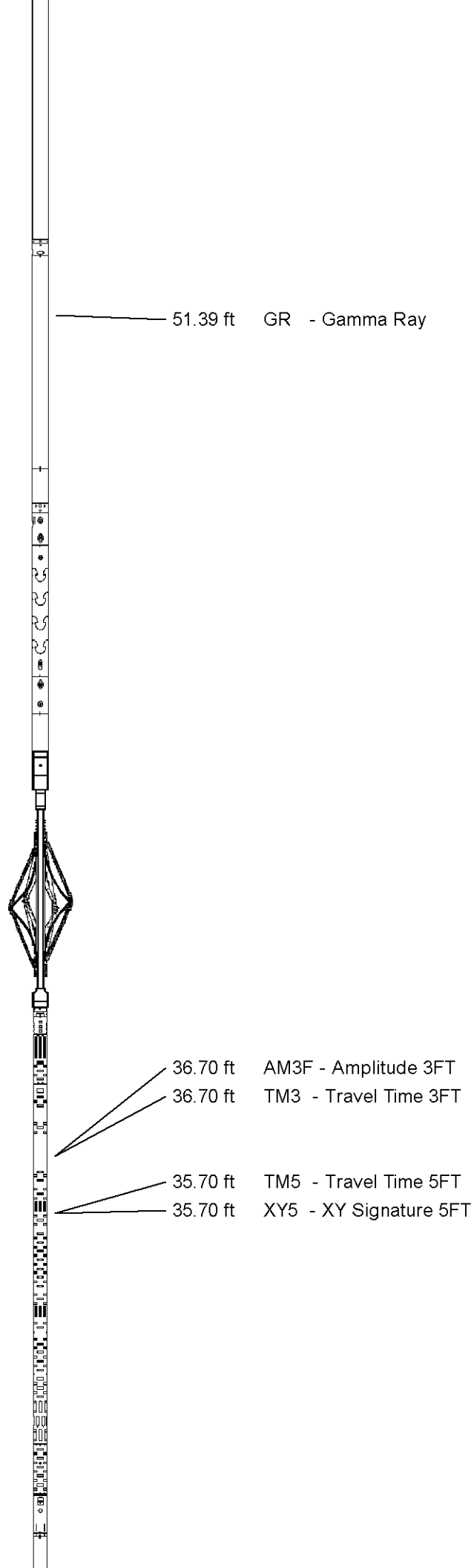
WCC-DA 125 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

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

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

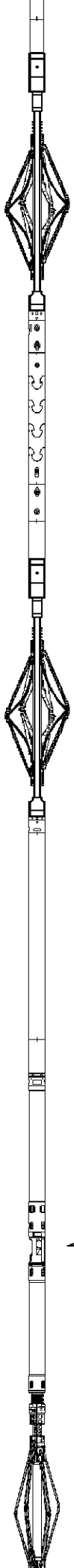
55 pin Roller Centralizer
CEN-XA 221 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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



7.65 ft IMRF - Mud Impedance
7.65 ft MUDT - Mud Slowness

0.37 ft IMM - Max Impedance
0.37 ft IMAV - Avg Impedance
0.37 ft IMM - Min Impedance
0.37 ft ECCE - Eccentering
0.37 ft OVLI - ID Ovality
0.37 ft DIMX - Max Diameter
0.37 ft DIAV - Avg Diameter
0.37 ft DIMN - Min Diameter
0.37 ft ARMX - Max Area
0.37 ft ARMA - Avg Area



All measurements relative to tool zero.

SHOP AND FIELD CALIBRATIONS

C:\Logs\Extraction\VARRA 4\VARRA 4 MAIN PASS.dta

UGR Field Survey Cal UGR-JD 223

Field calibration on 03-NOV-2016 11:17

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 05-DEC-2016 07:23

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

Last Edited on 05-DEC-2016 07:23

*** 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	1600.00	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

WELL			VARRA 4		
FIELD			WATTENBERG		
PROVINCE/COUNTY			WELD		
COUNTRY/STATE			USA / COLORADO		
Elevation Kelly Bushing	4924	feet	Bottom Log Interval	6670.00	feet
Elevation Drill Floor	4924	feet	Depth Driller	17100.00	feet
Elevation Ground Level	4899	feet	Depth Logger	6670.00	feet
<div><div><div><div>Weatherford[®]</div></div></div><div>SECUREVIEW ULTRAVIEW/BONDVIEW CEMENT ANALYSIS</div></div>					