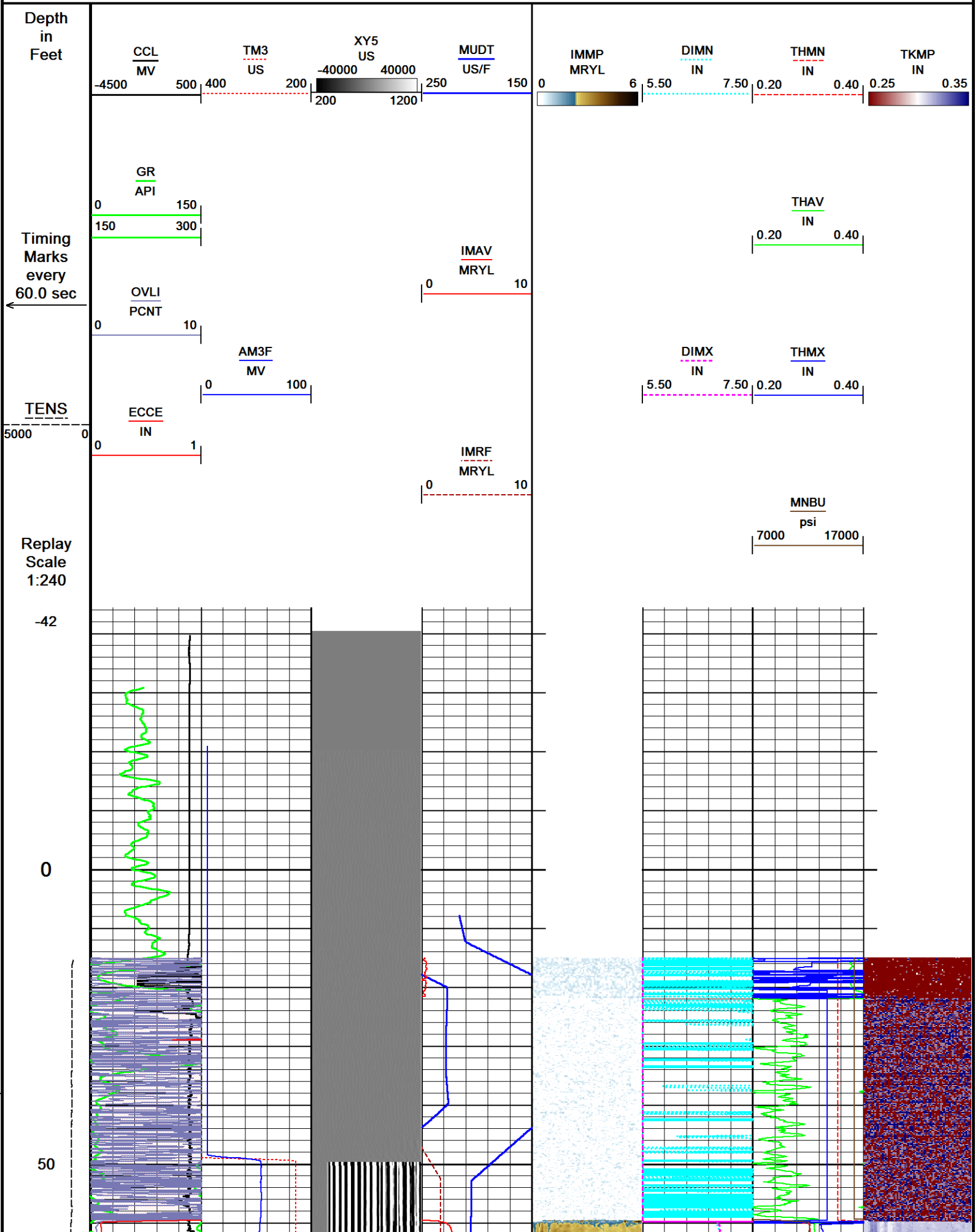
				SECUREVIEW			
Weatherford®				ULTRAVIEW / BONDVIEW			
				COMPOSITE			
COMPANY				BONANZA CREEK ENERGY			
WELL				NORTH PLATTE F-J-28 HNC			
FIELD				WATTENBERG			
PROVINCE/COUNTY				WELD			
COUNTRY/STATE				US / COLORADO			
LOCATION				1431' FSL 1424' FWL			
SEC	TWP	RGE	Other Services				
Latitude		CALVIEW		CASING ANALYSIS LOG			
Longitude							
API Number		05-123-47012					
Permanent Datum GL, Elevation 4553 feet						Elevations:	
Log Measured From KB, 17.00 feet above Permanent Datum						KB 4570.00	
Drilling Measured From KB						DF 4570.00	
						GL 4553.00	
Date	18-OCT-2018			PERFORATION RECORD			
Run Number	ONE			Shot	Number	Depth From	Depth To
Service Order	18188-227074521			Density	of Shots	feet	feet
Type Log	URS/CBT						
Depth Driller	11610.00						
Depth Logger	6065.00						
Top Log Interval	0.00						
Bottom Log Interval	6065.00						
Hole Fluid Type	WATER						
Hole Fluid Level	0.00						
Restriction ID	4.892						
Max Recorded Temp	183.00			Gun Type			
Well Head Pressure	0.00			Gun Size			
Well Head Equipment	N/A			CASING / TUBING RECORD			
Time Well Ready	R.O.A.			Size	Weight	Depth From	Depth To
Time Logger Bottom	SEE LOG			inches	pounds/ft	feet	feet
Unit	14166			9.625	36.00	0.00	1629.00
				5.500	17.00	0.00	11680.00
Equipment Name	WSS-E						
Base	CASPER						
Recorded By	BASHEER A.						
Witnessed By	KURT D.						

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	J-55	LT&C	9.625	0.00	1629.00	36.00
CASING	P-110	LT&C	5.500	0.00	11680.00	17.00

REMARKS
- SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO RIG KB @17.0 FT ABOVE GROUND LEVEL.
- 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.

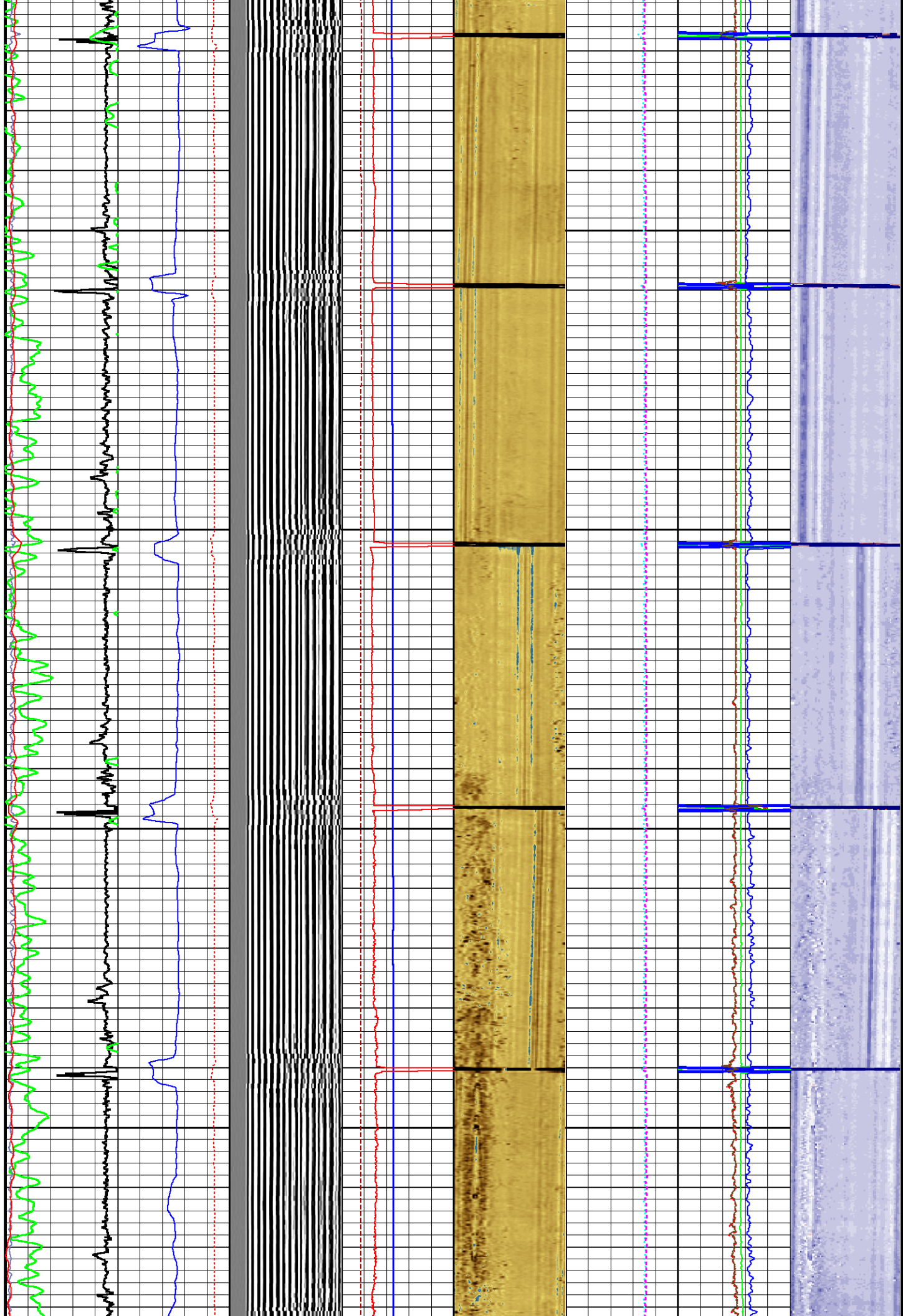


100

150

200

250



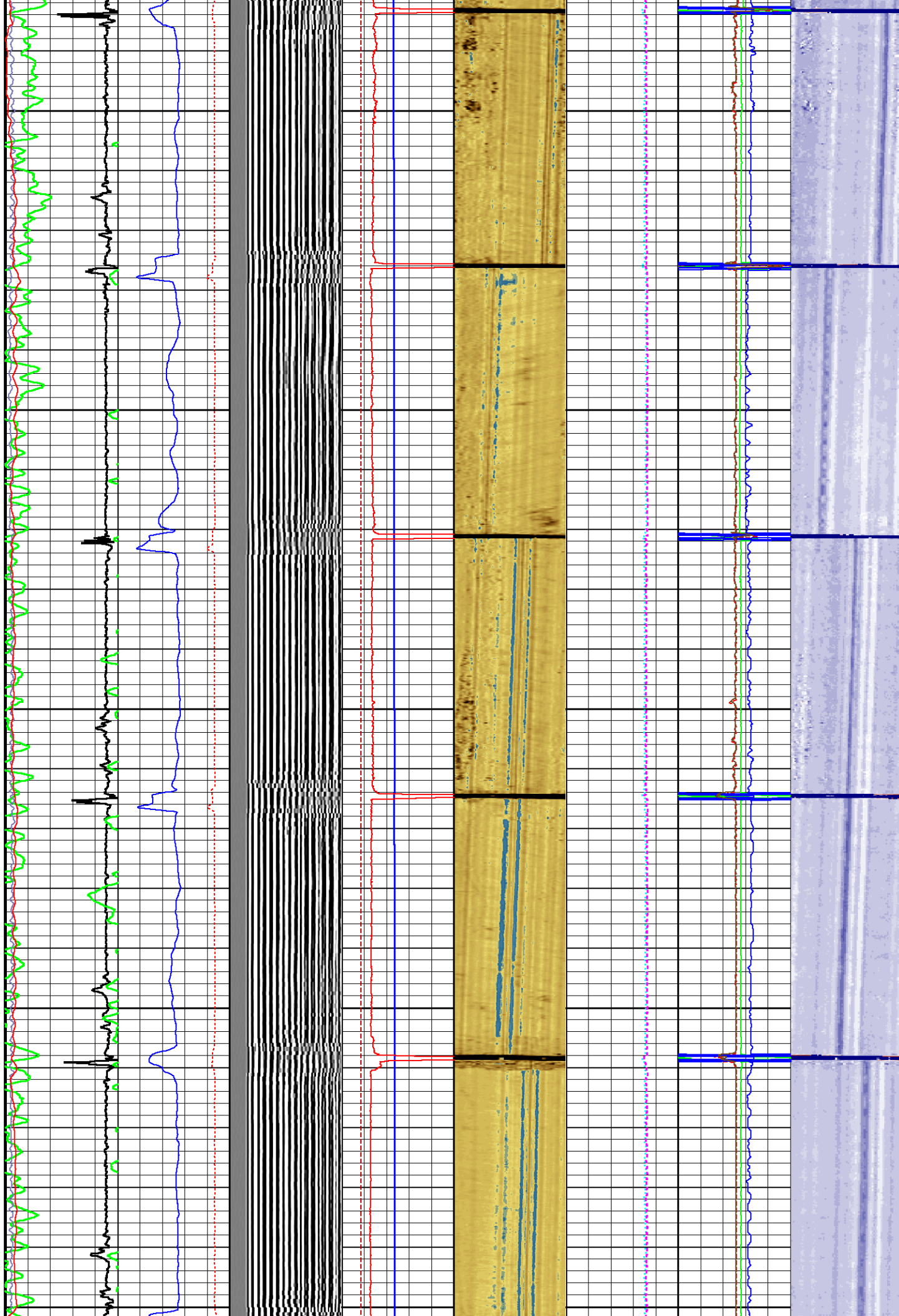
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350

400

450

500

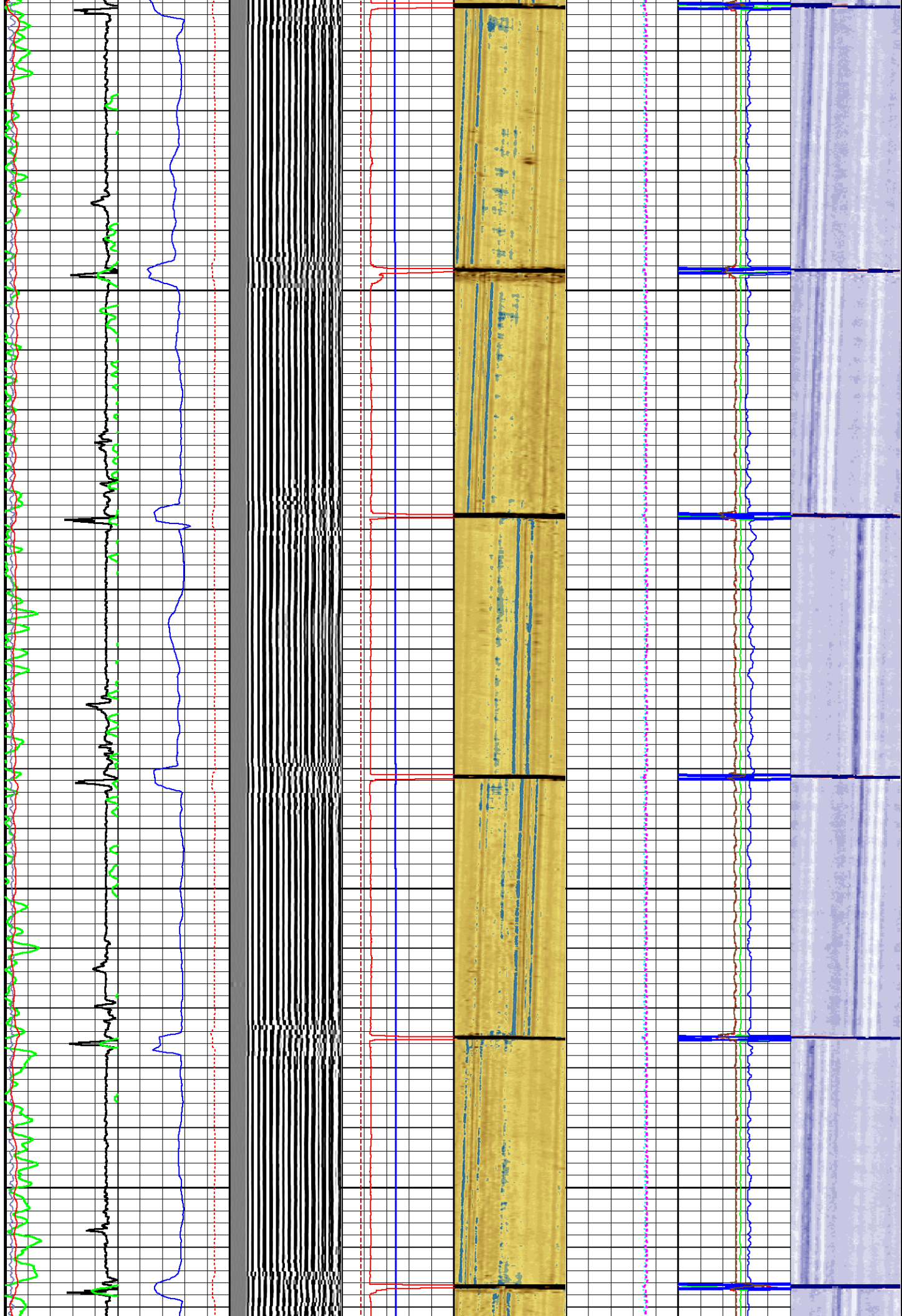


550

600

650

700

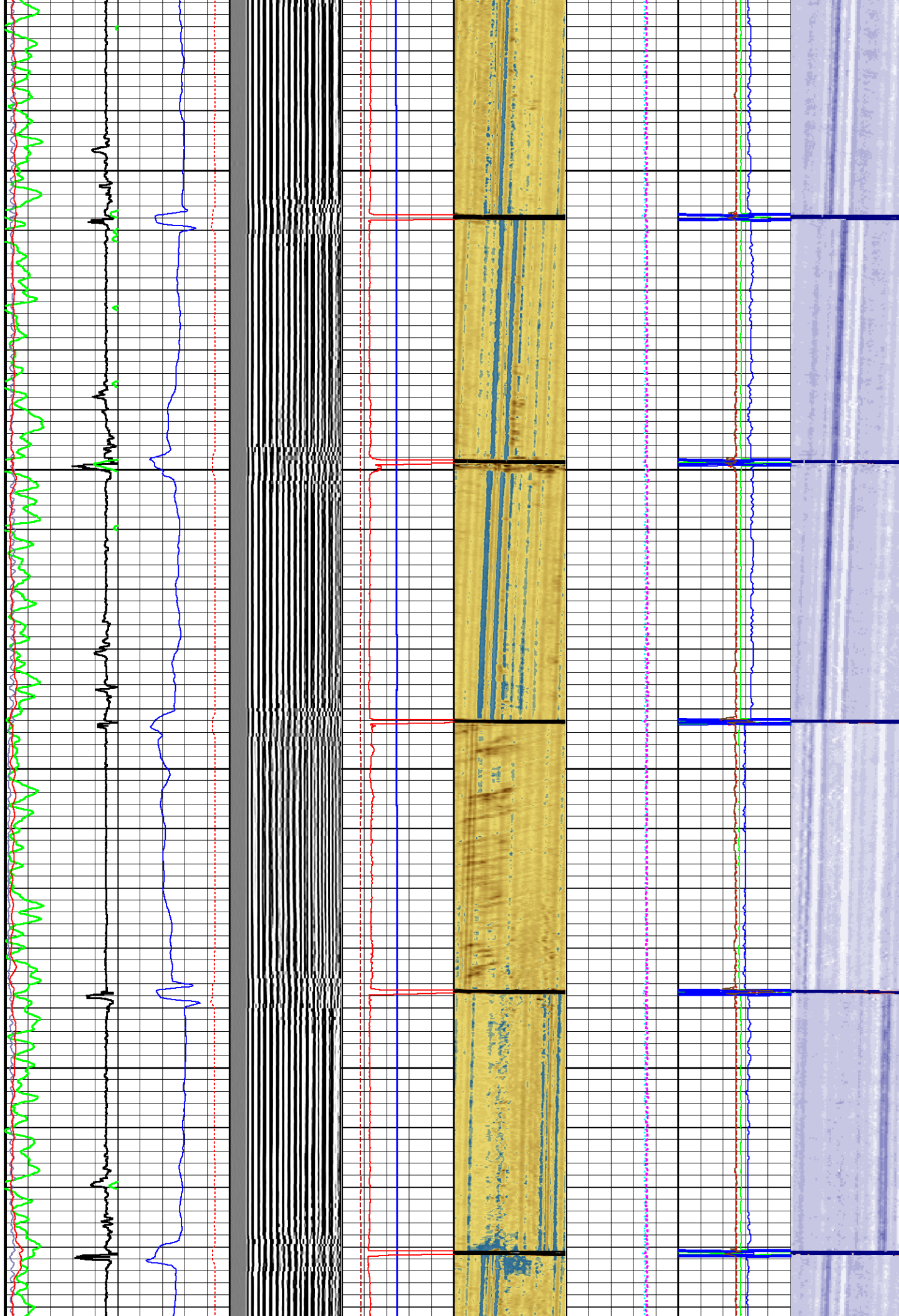


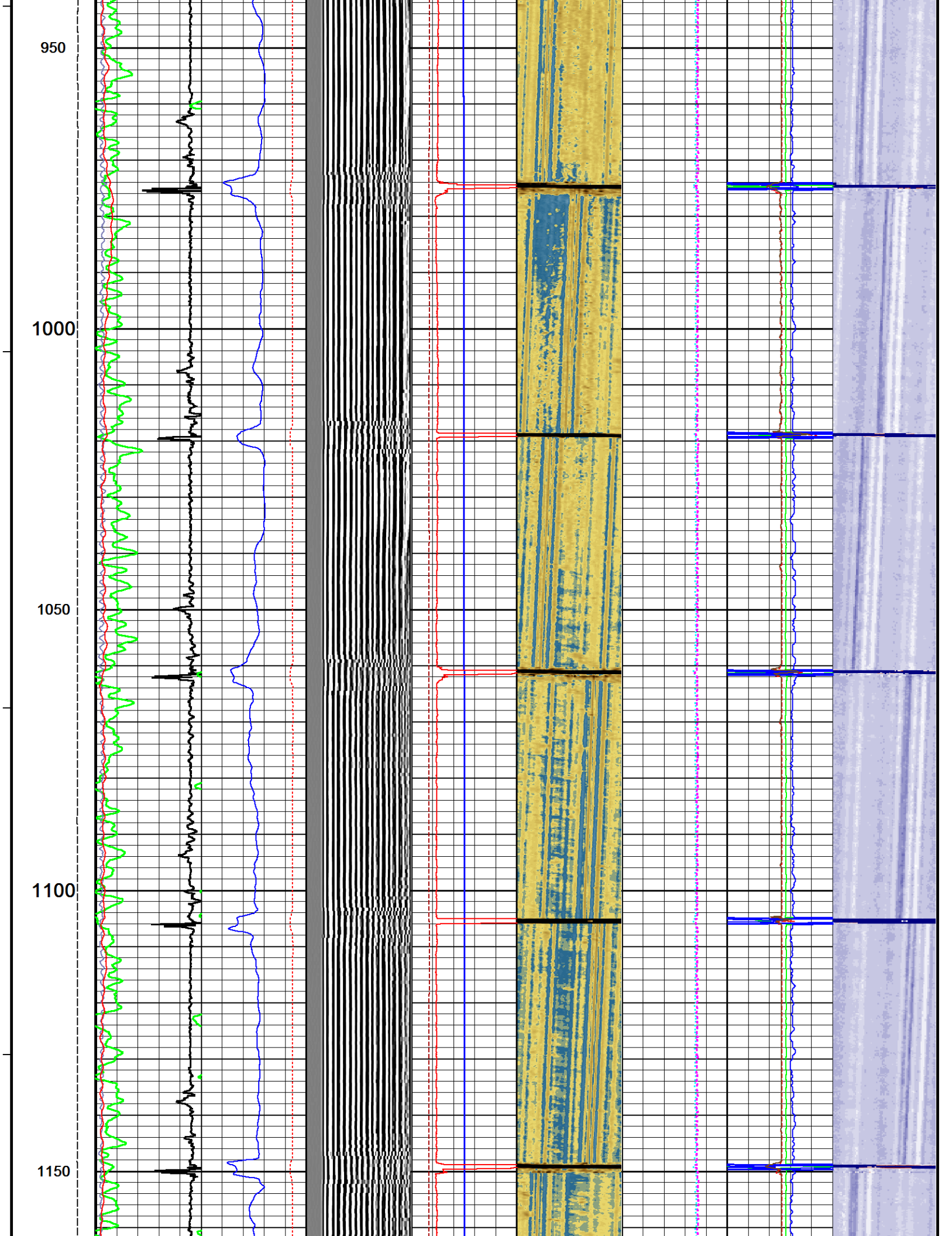
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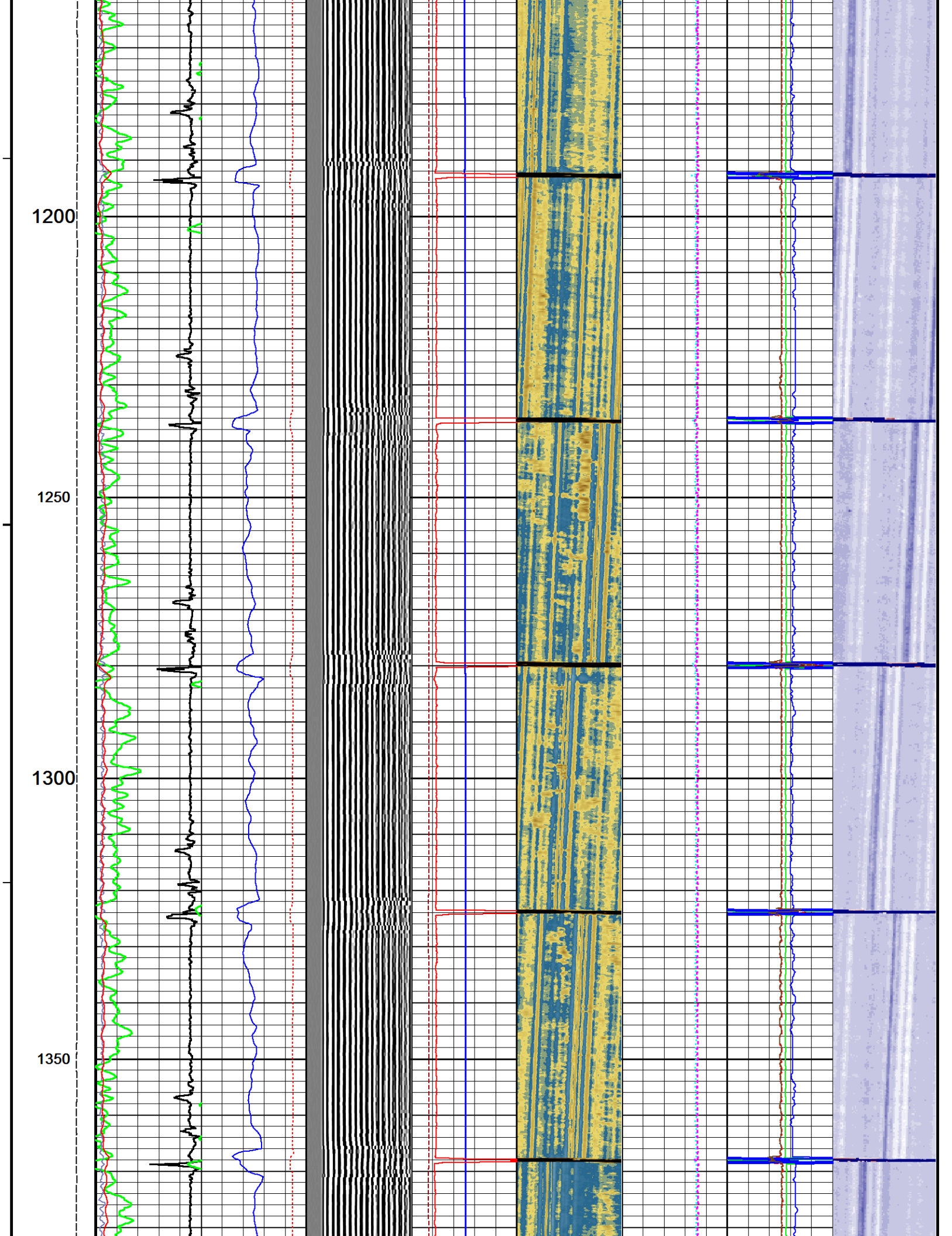
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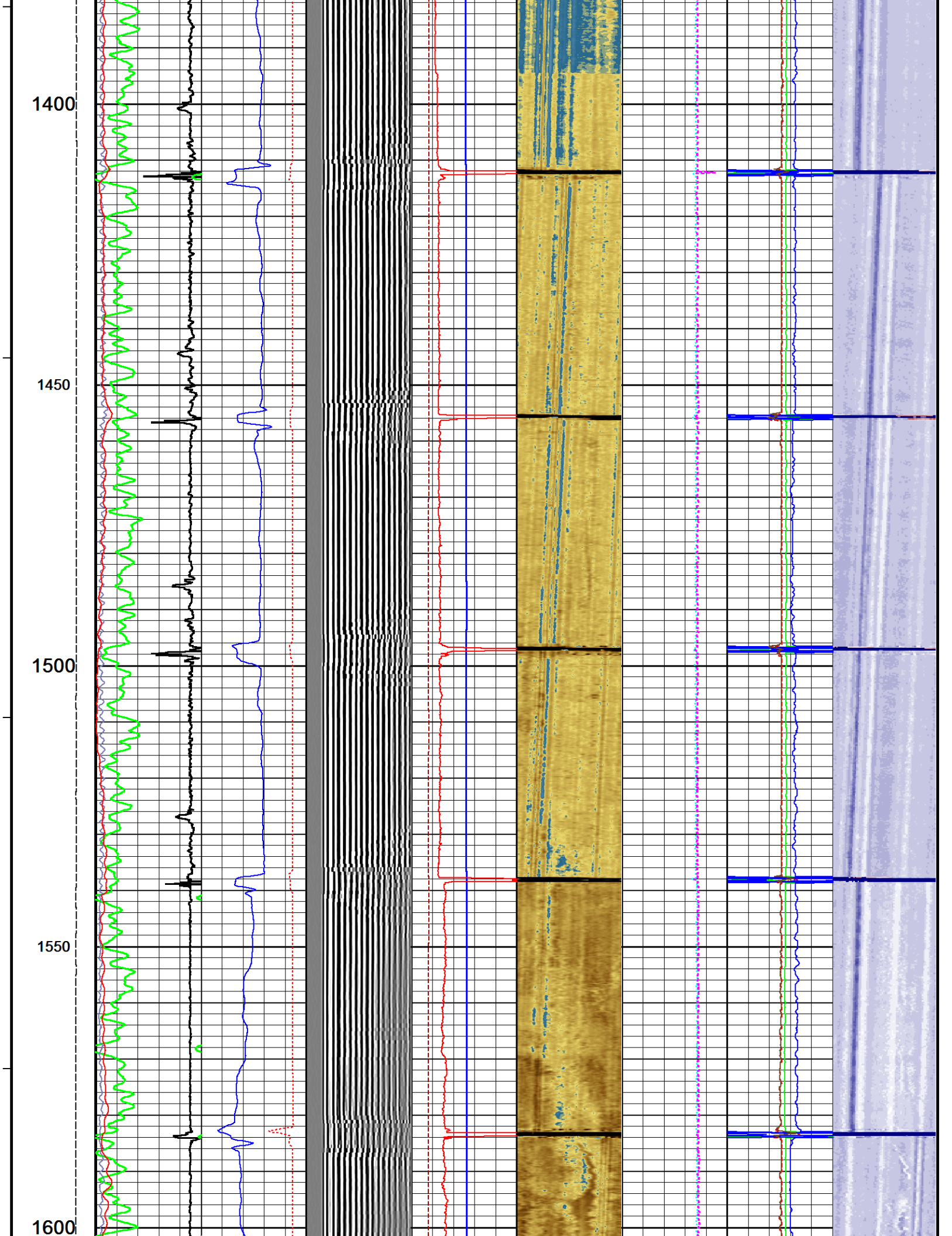
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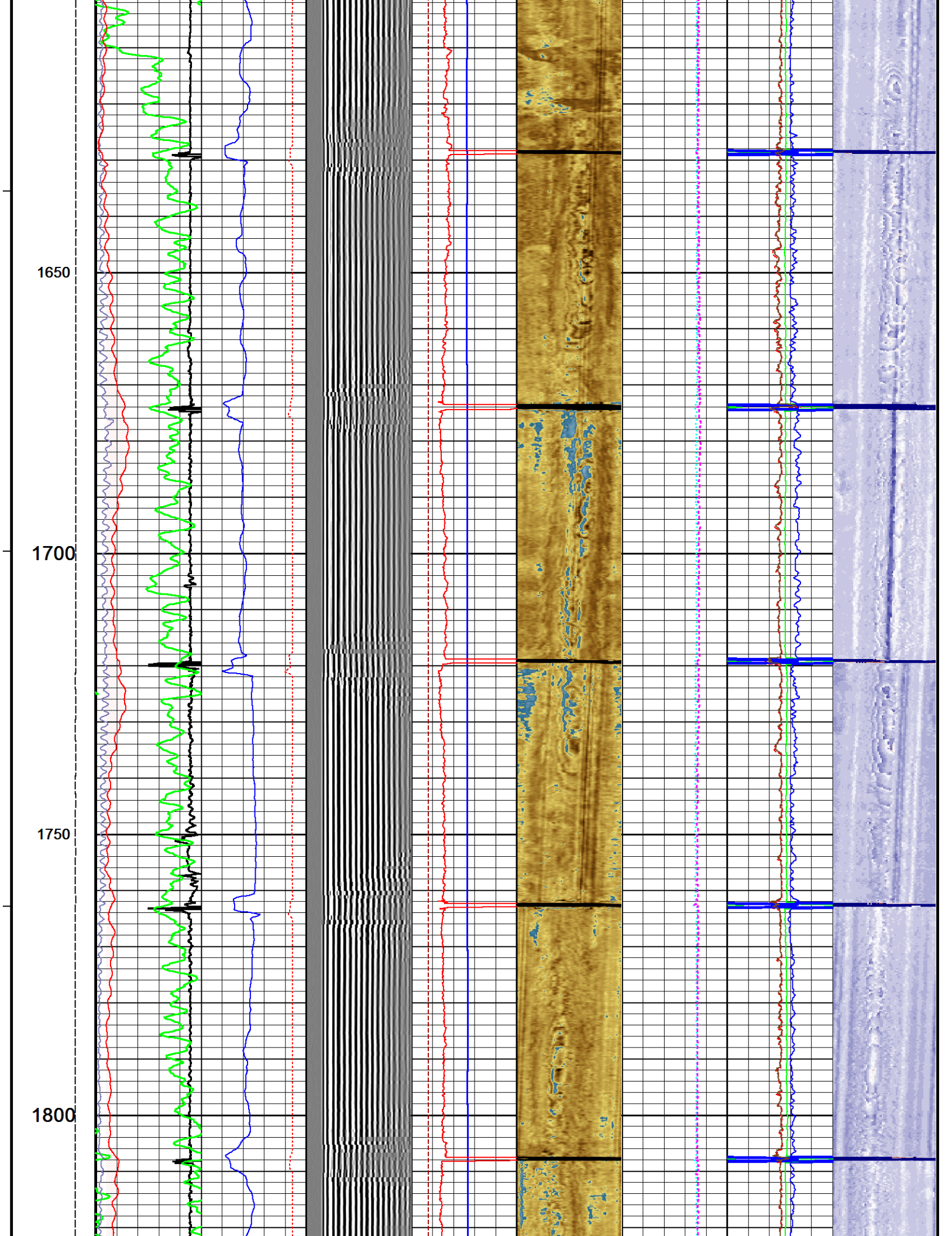
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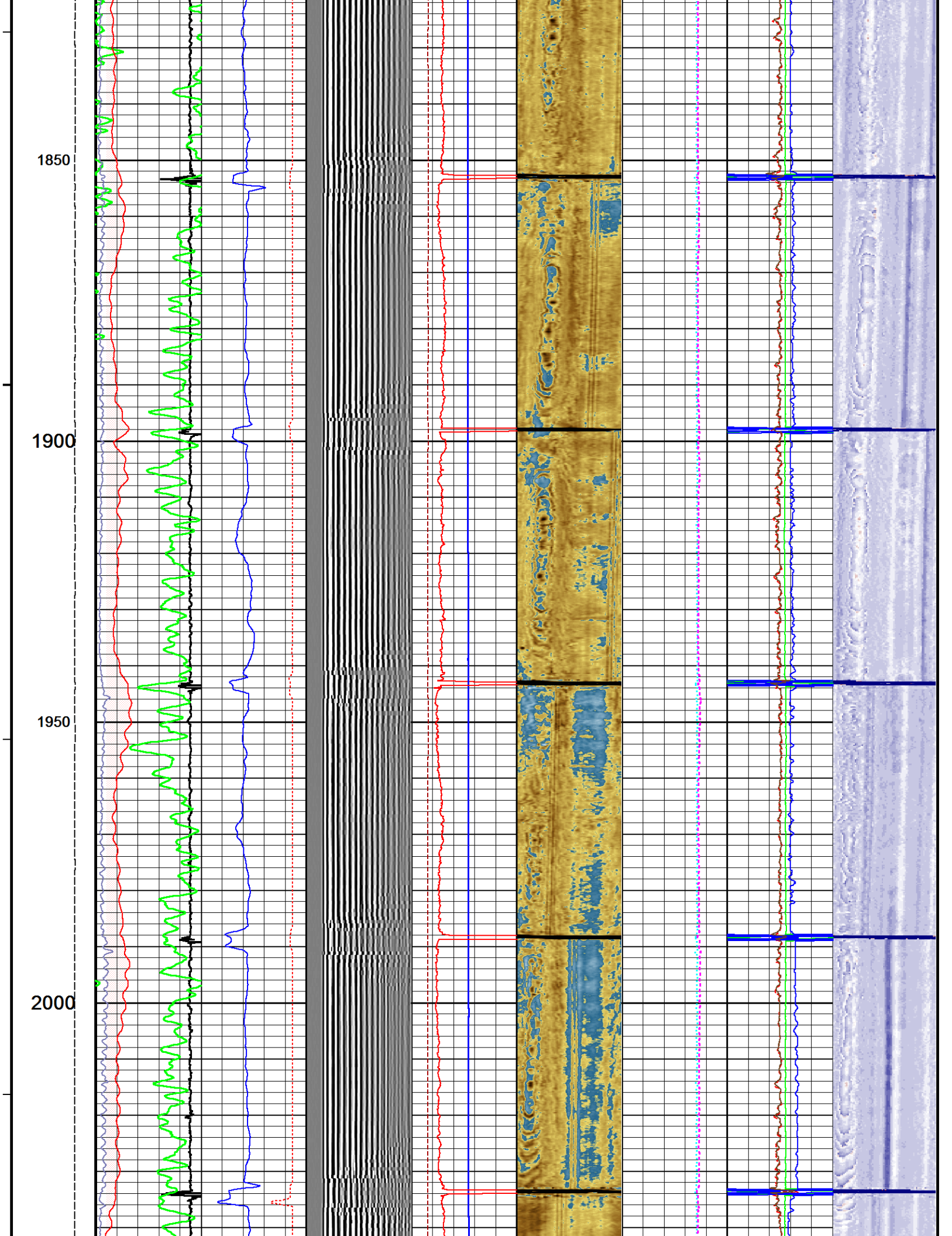












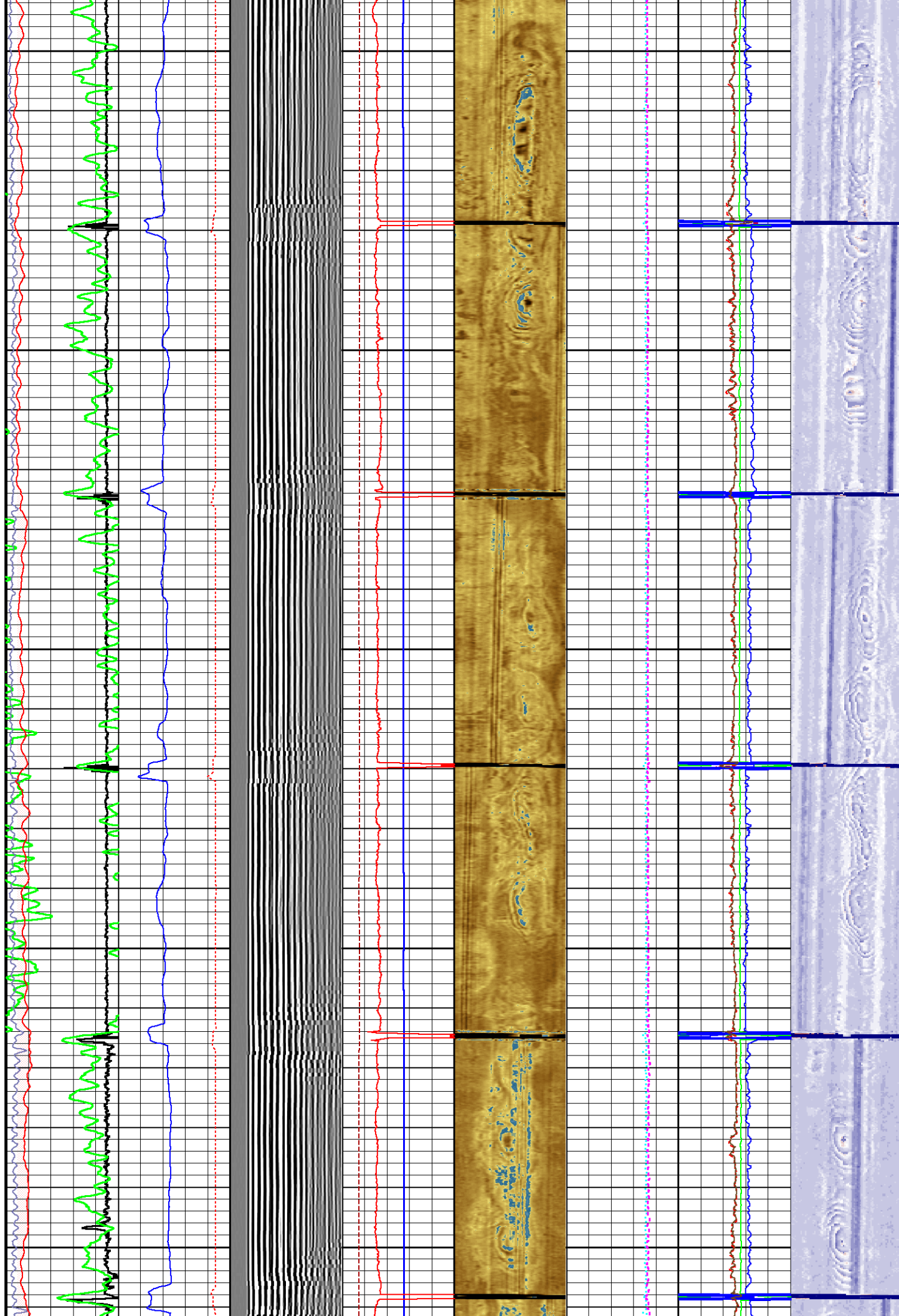
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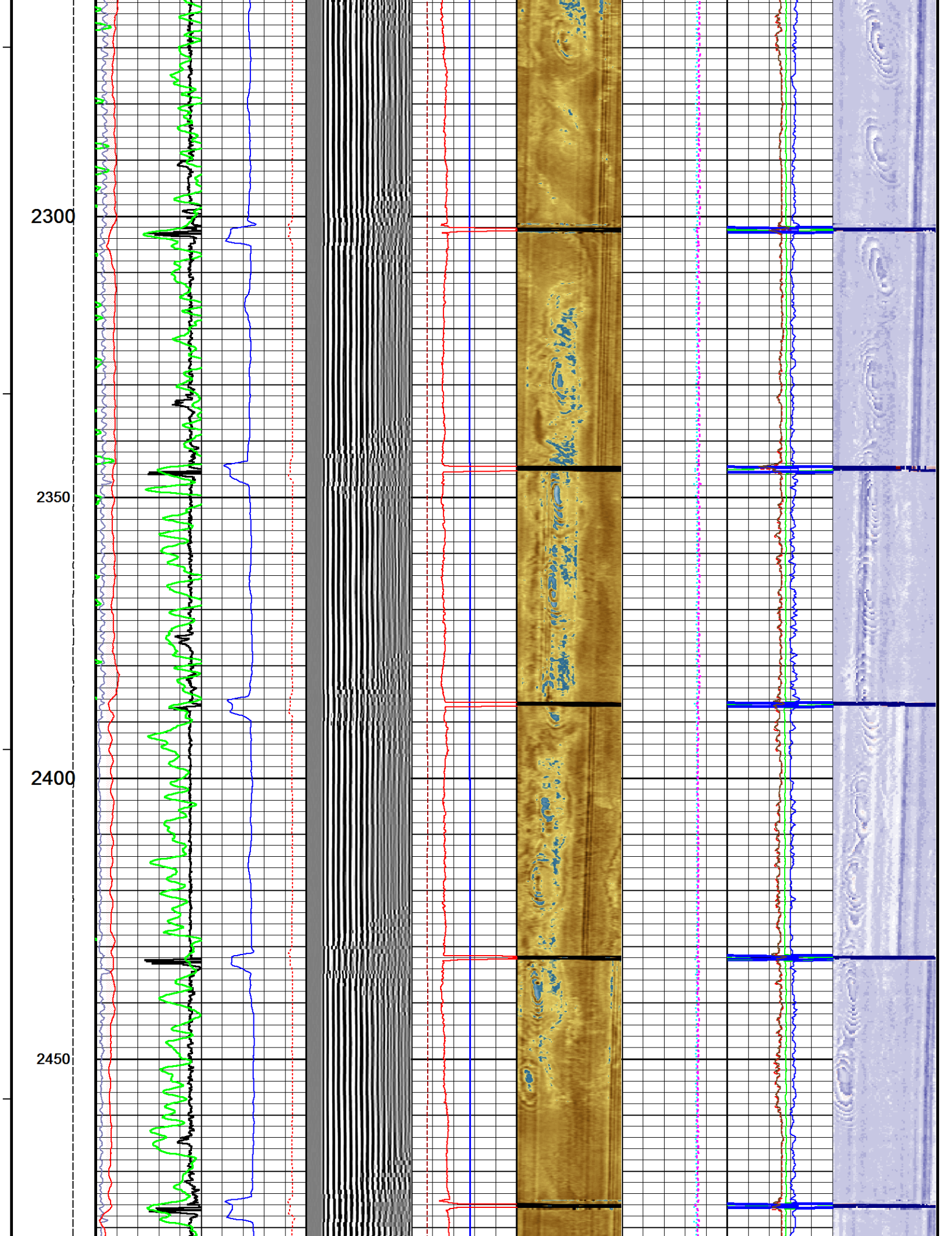
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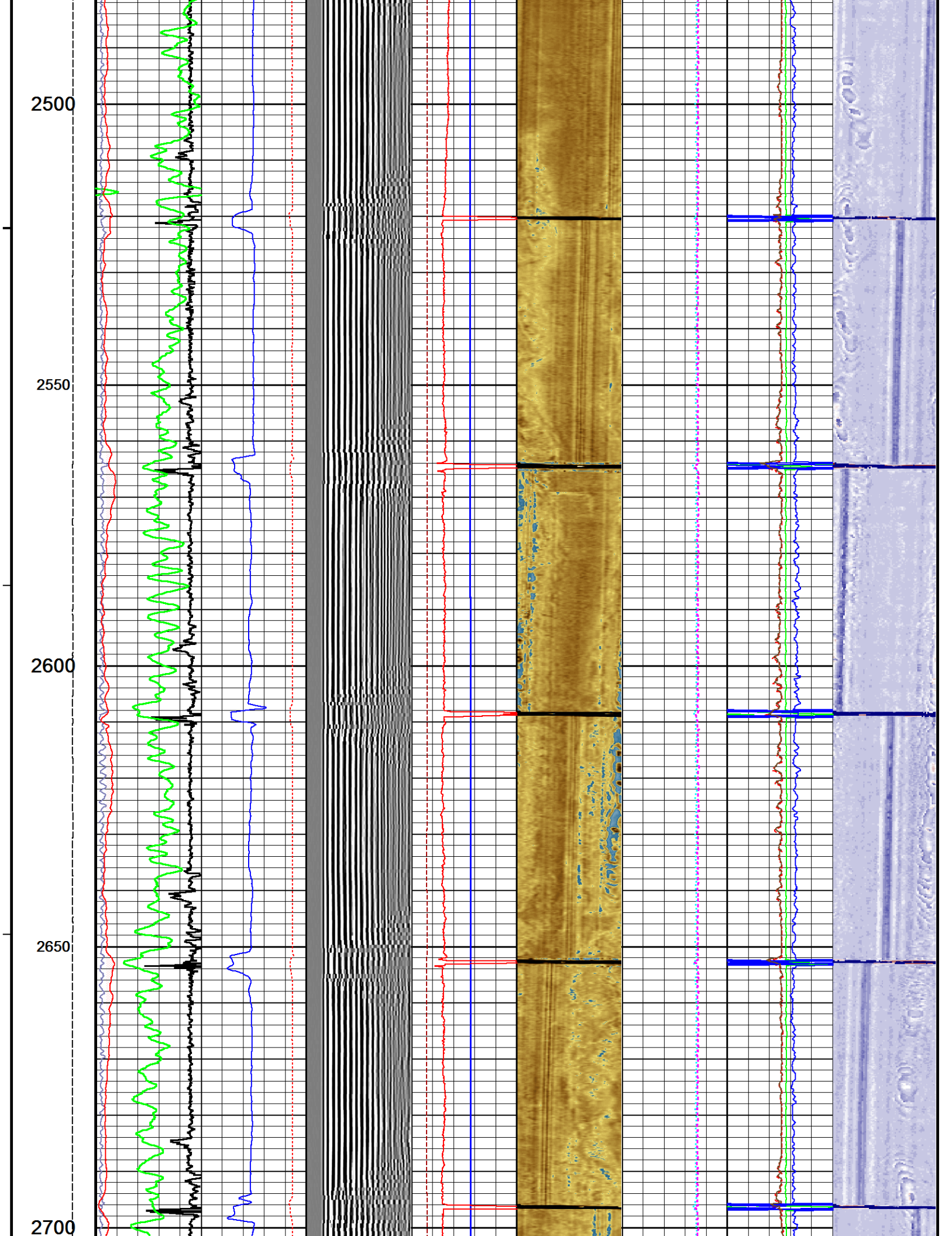
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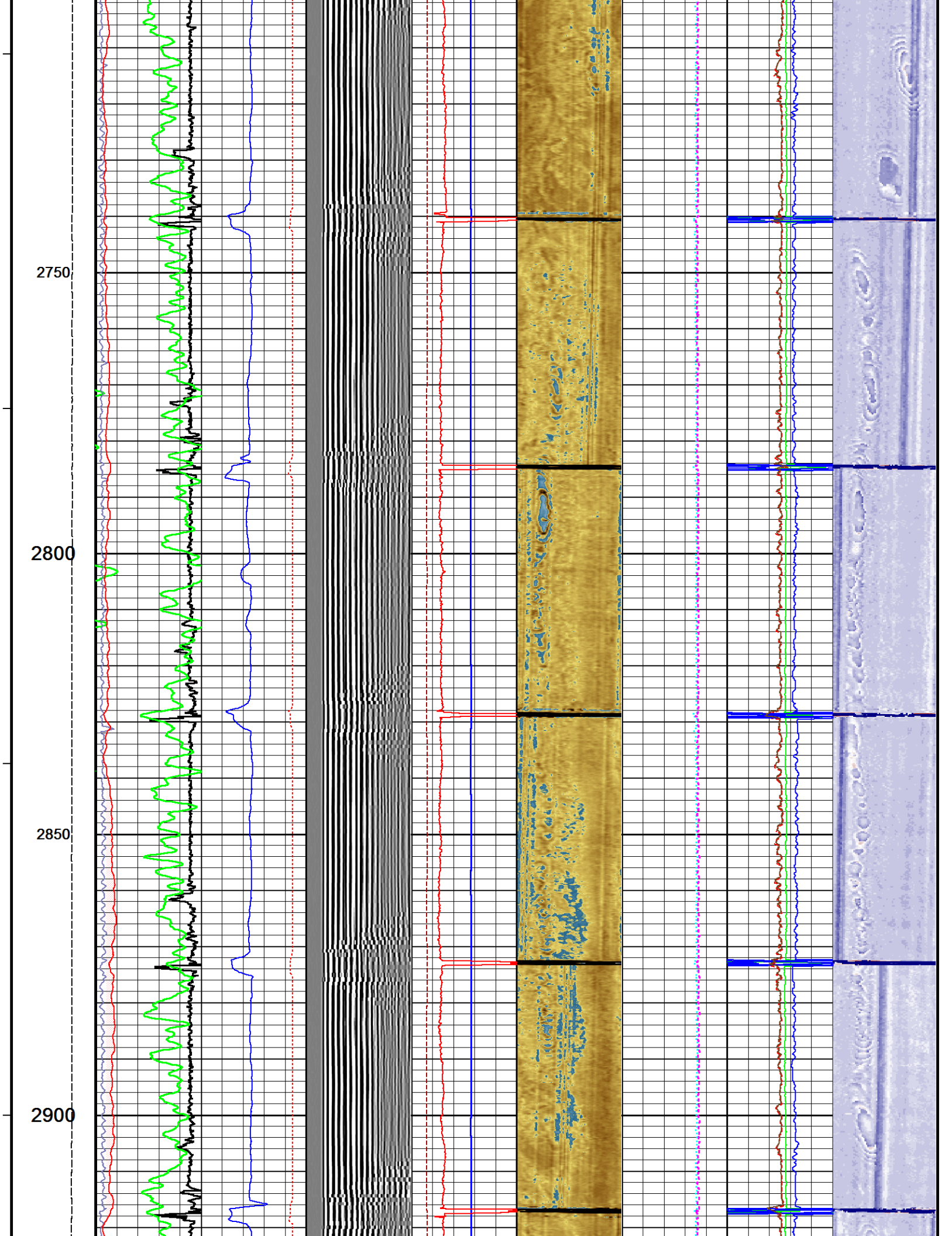
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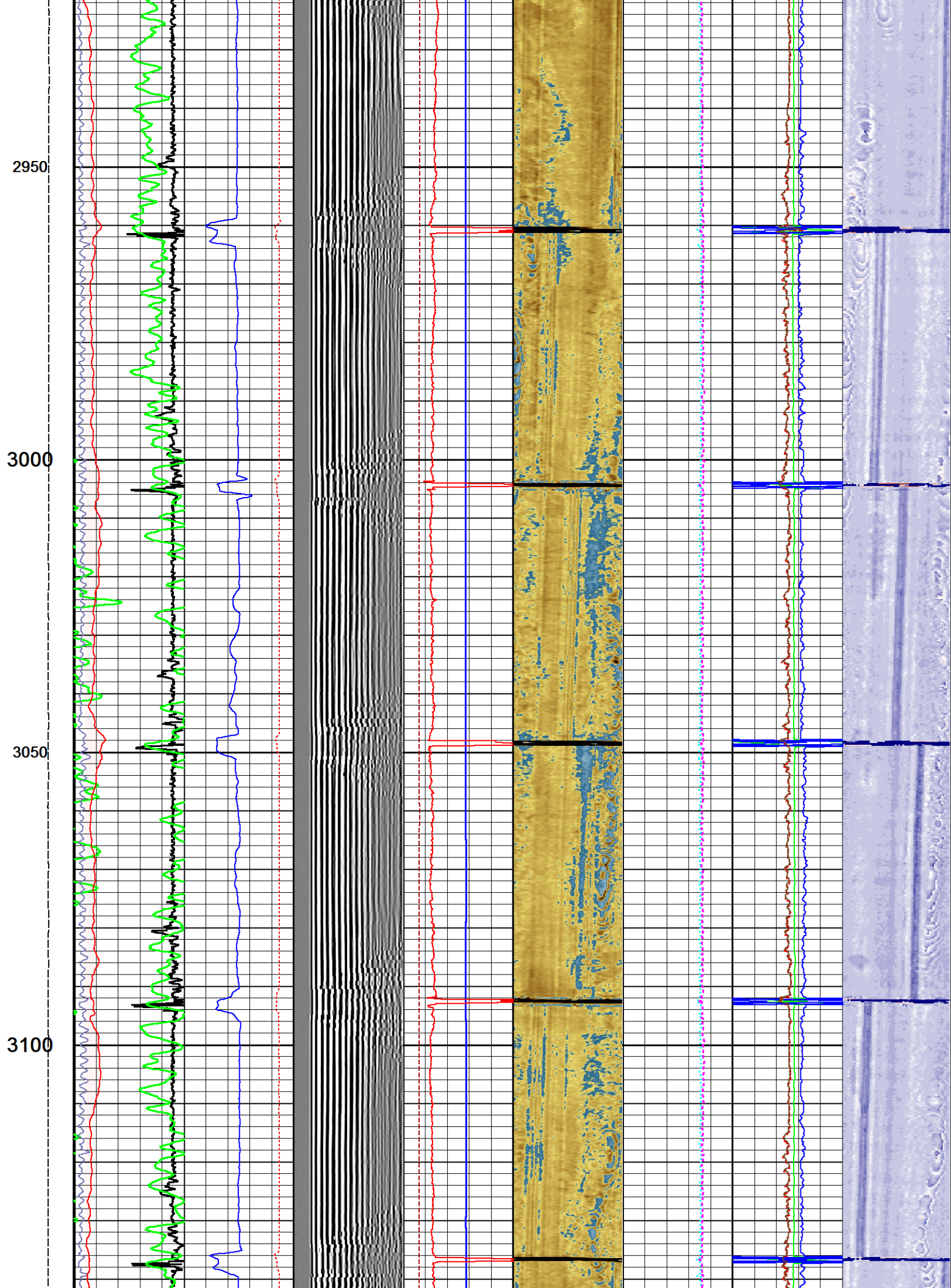
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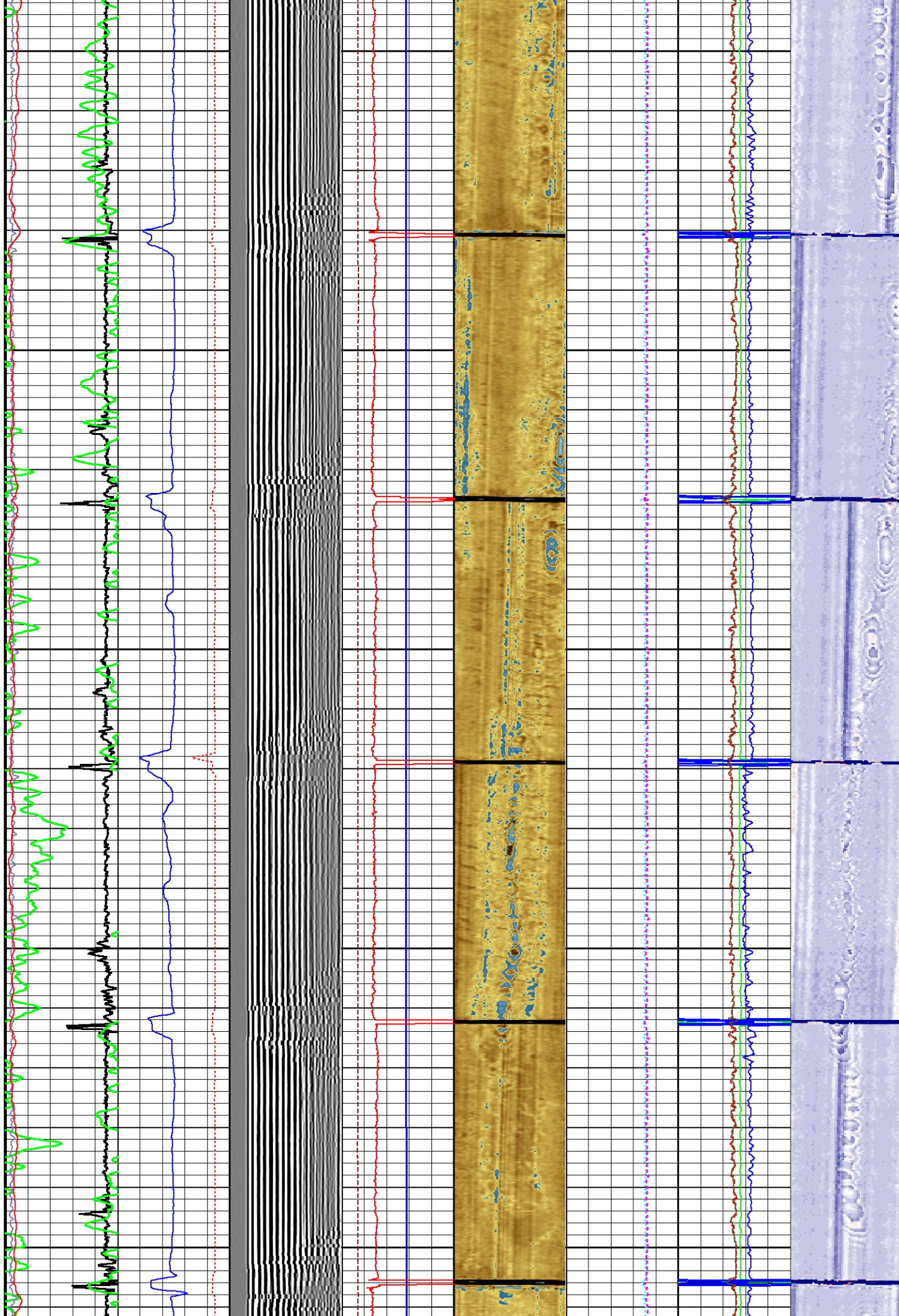


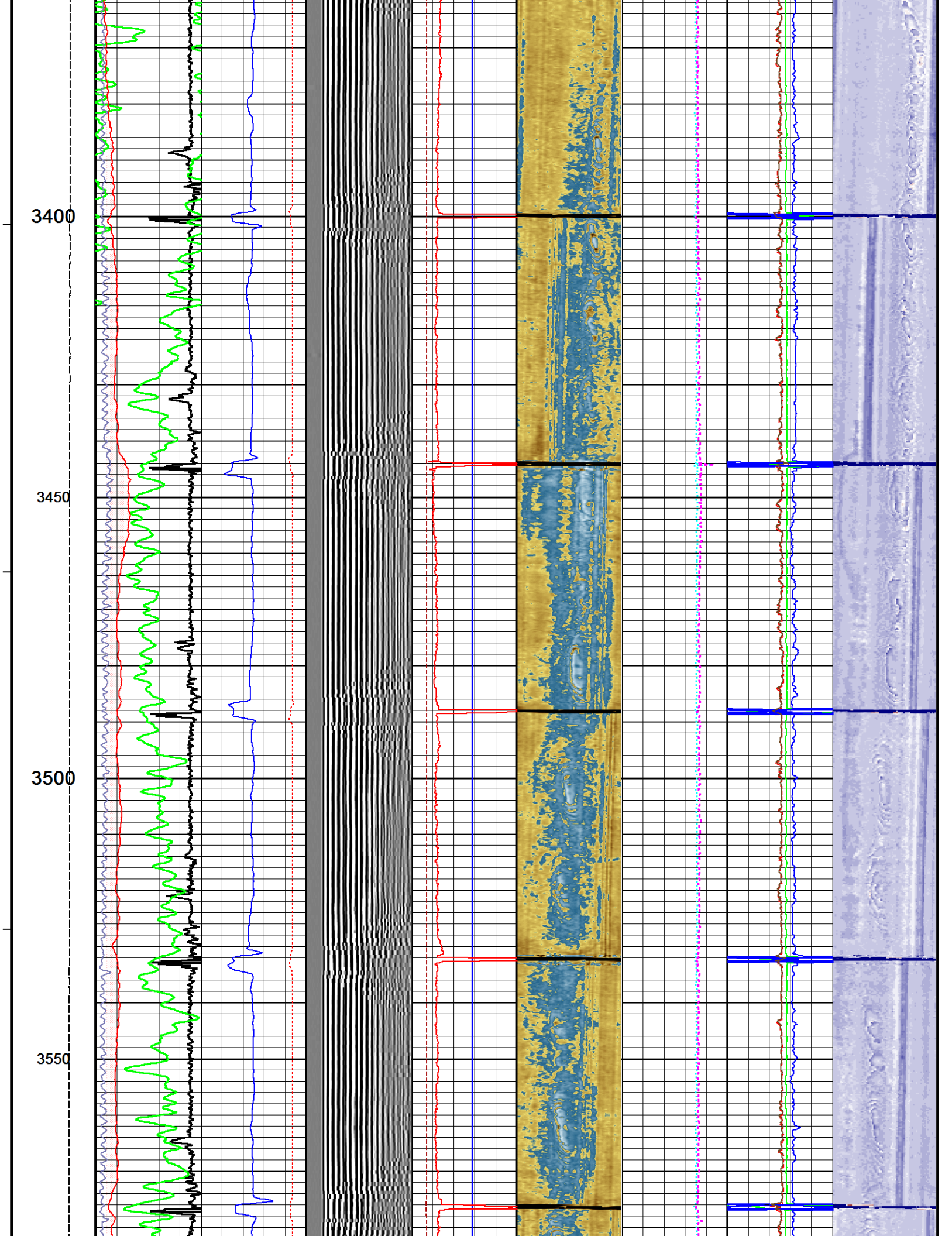


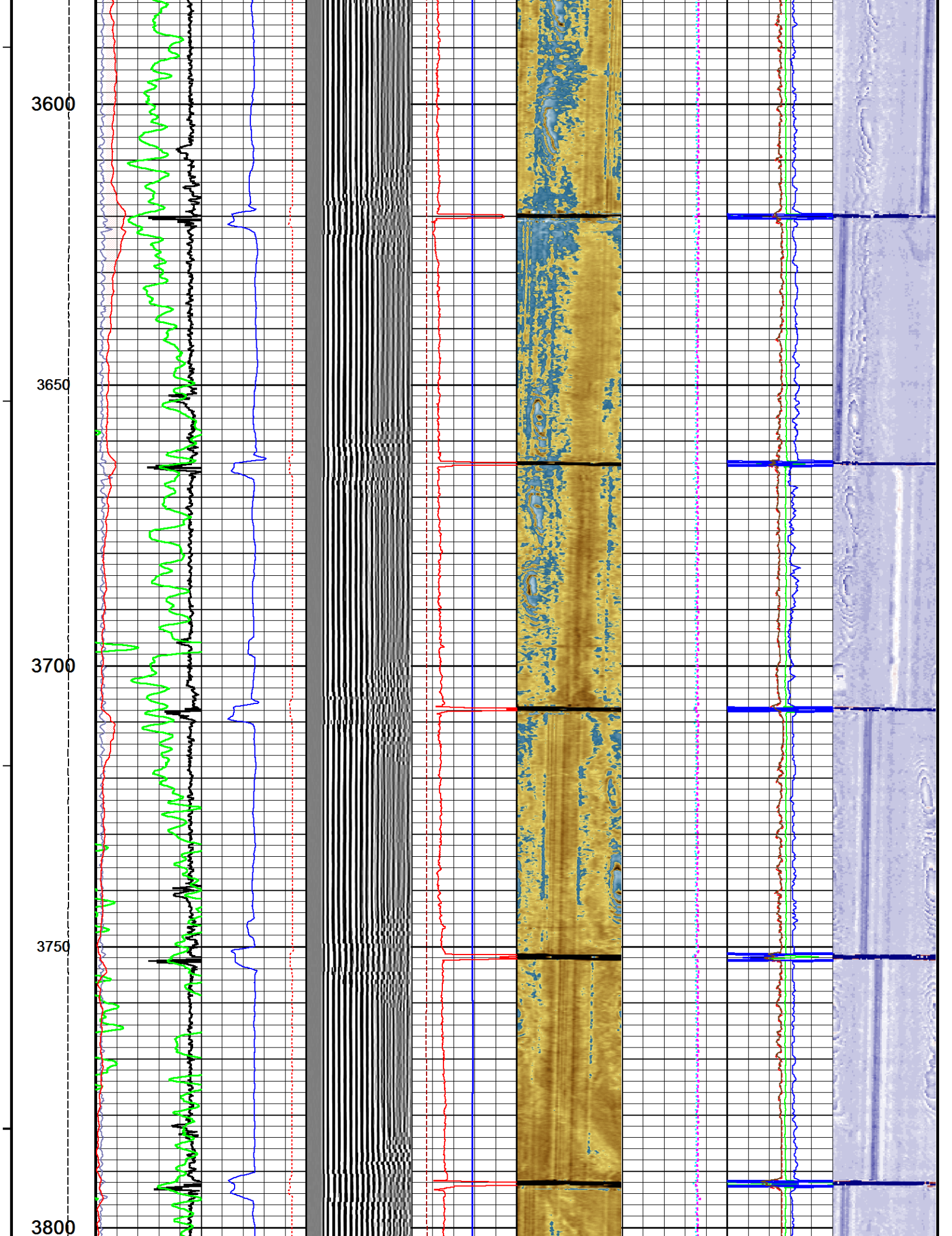


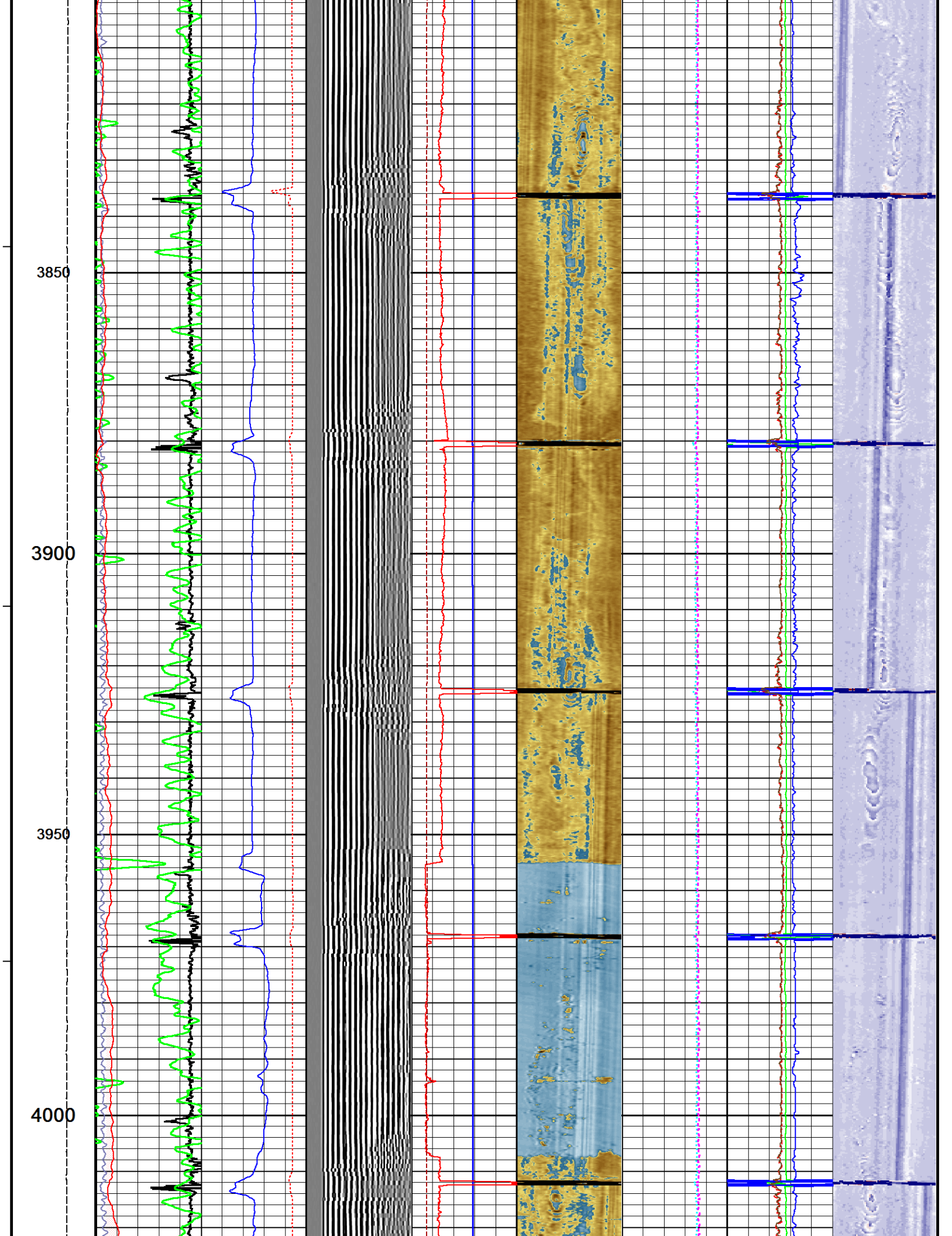


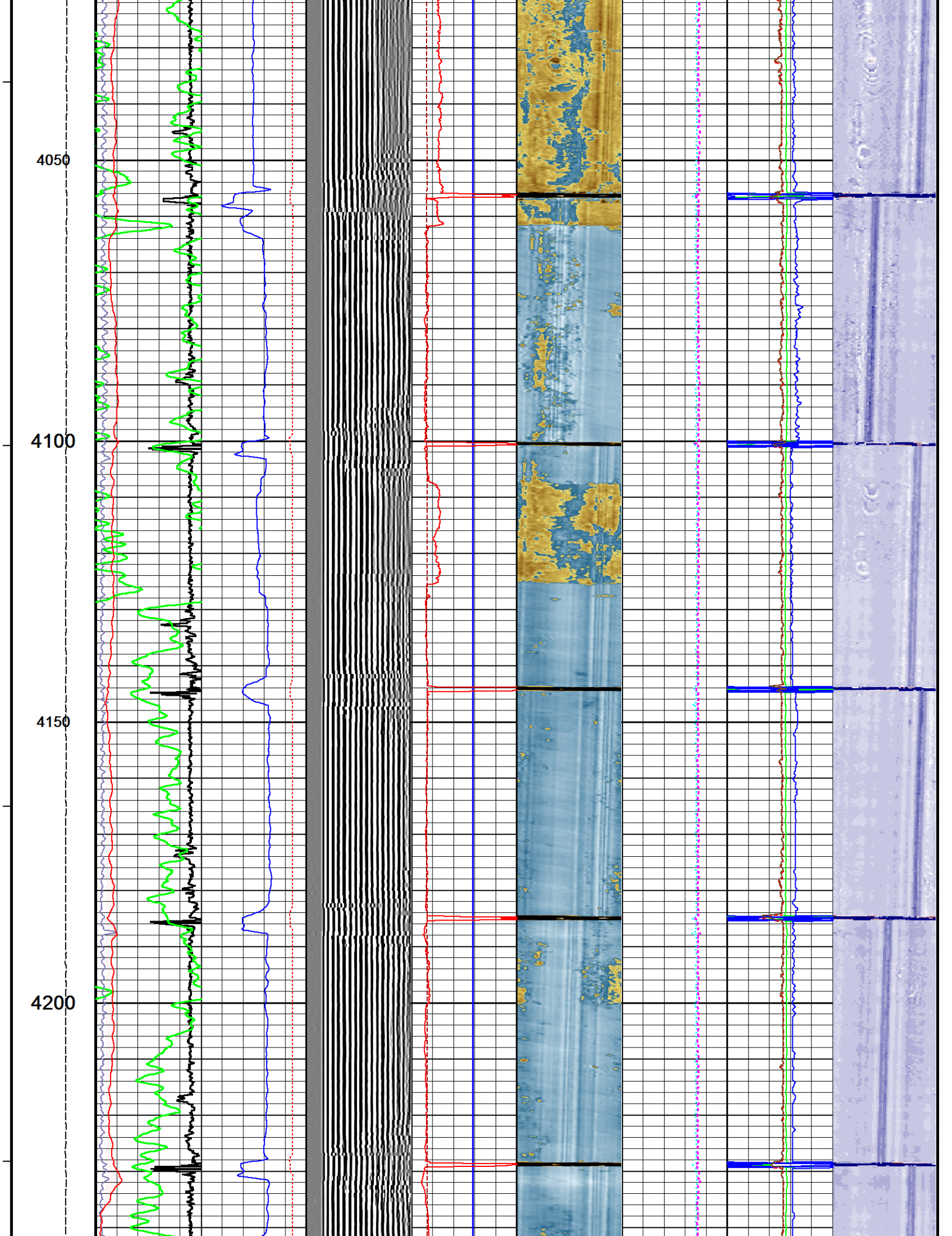
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3200
3250
3300
3350

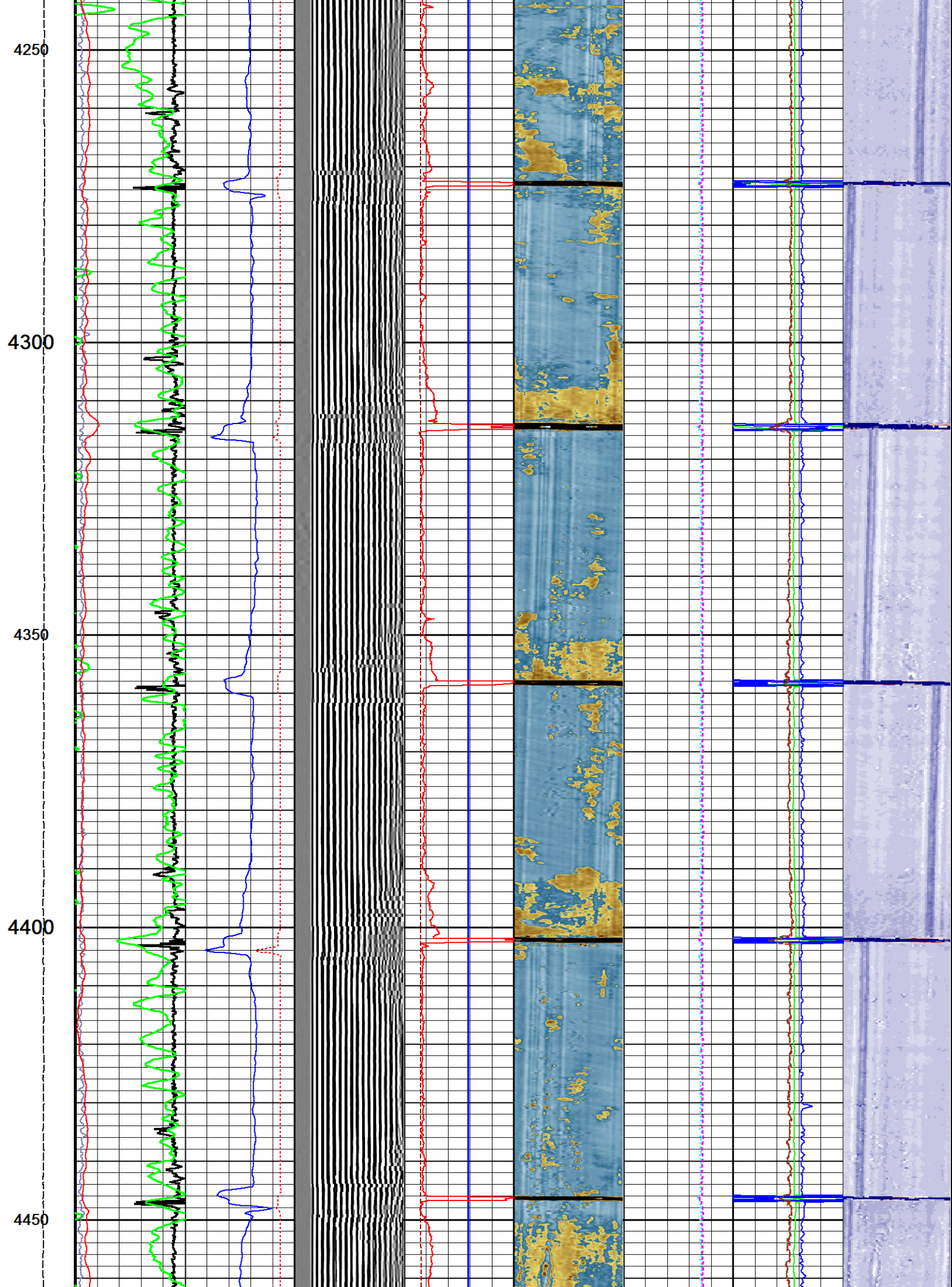


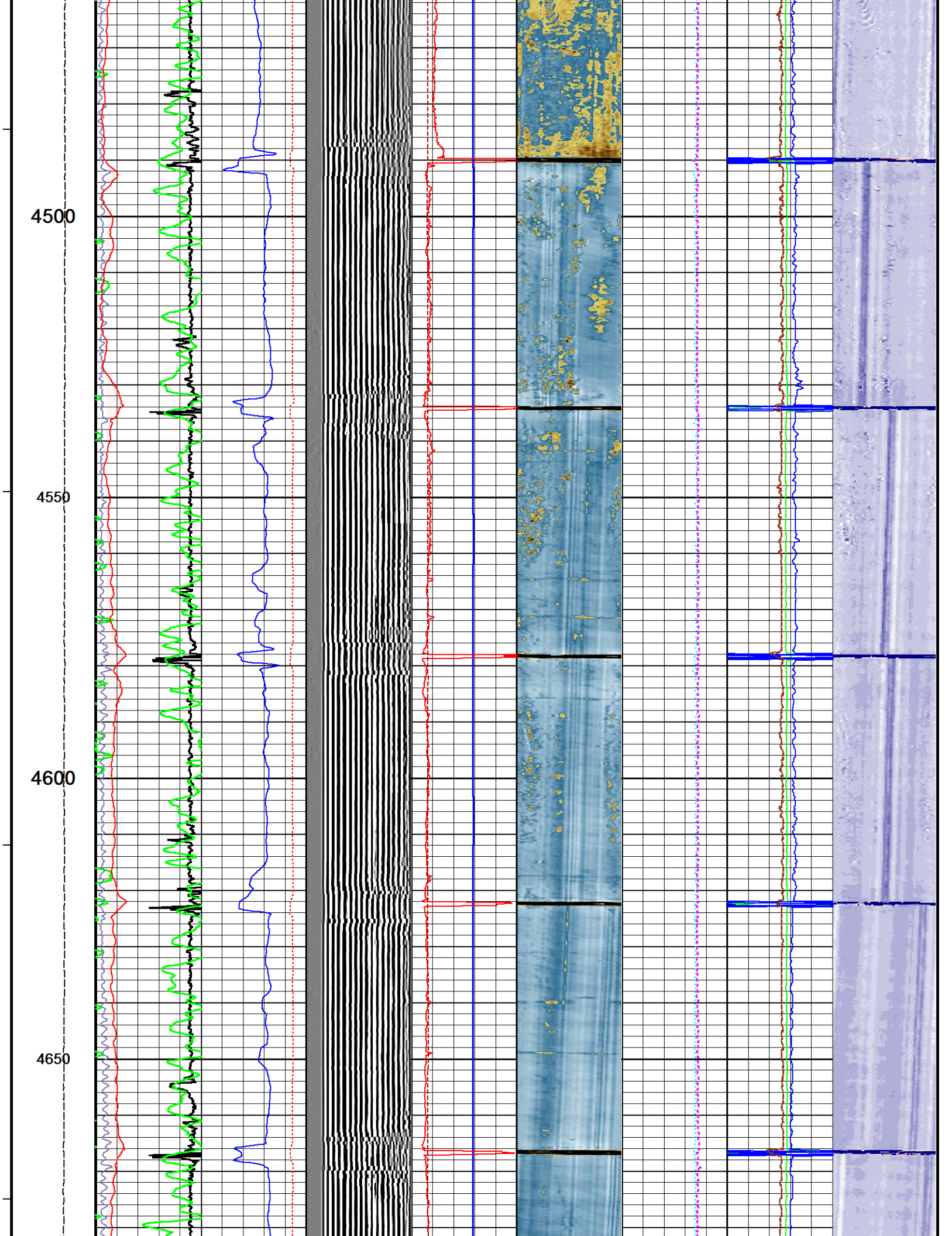


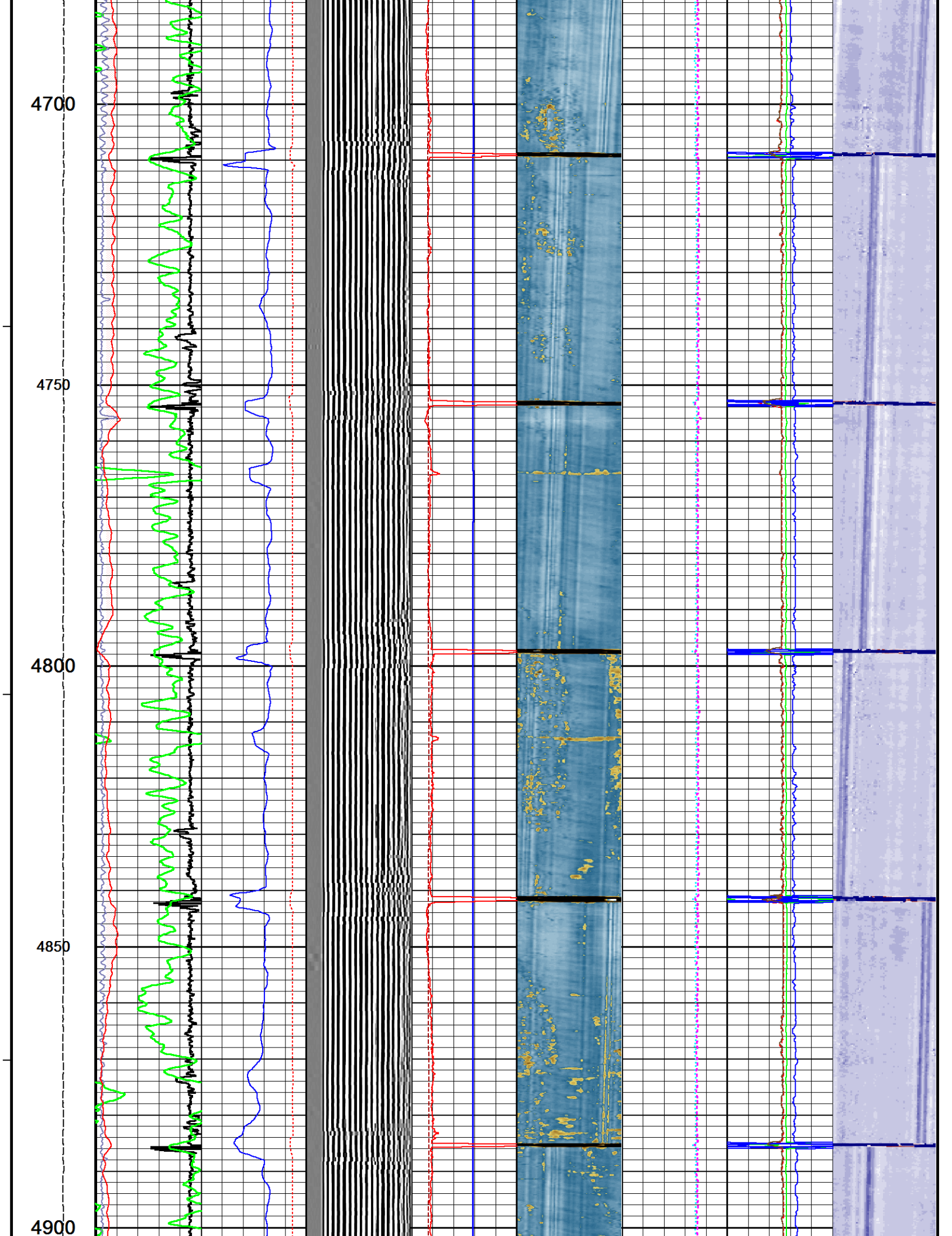


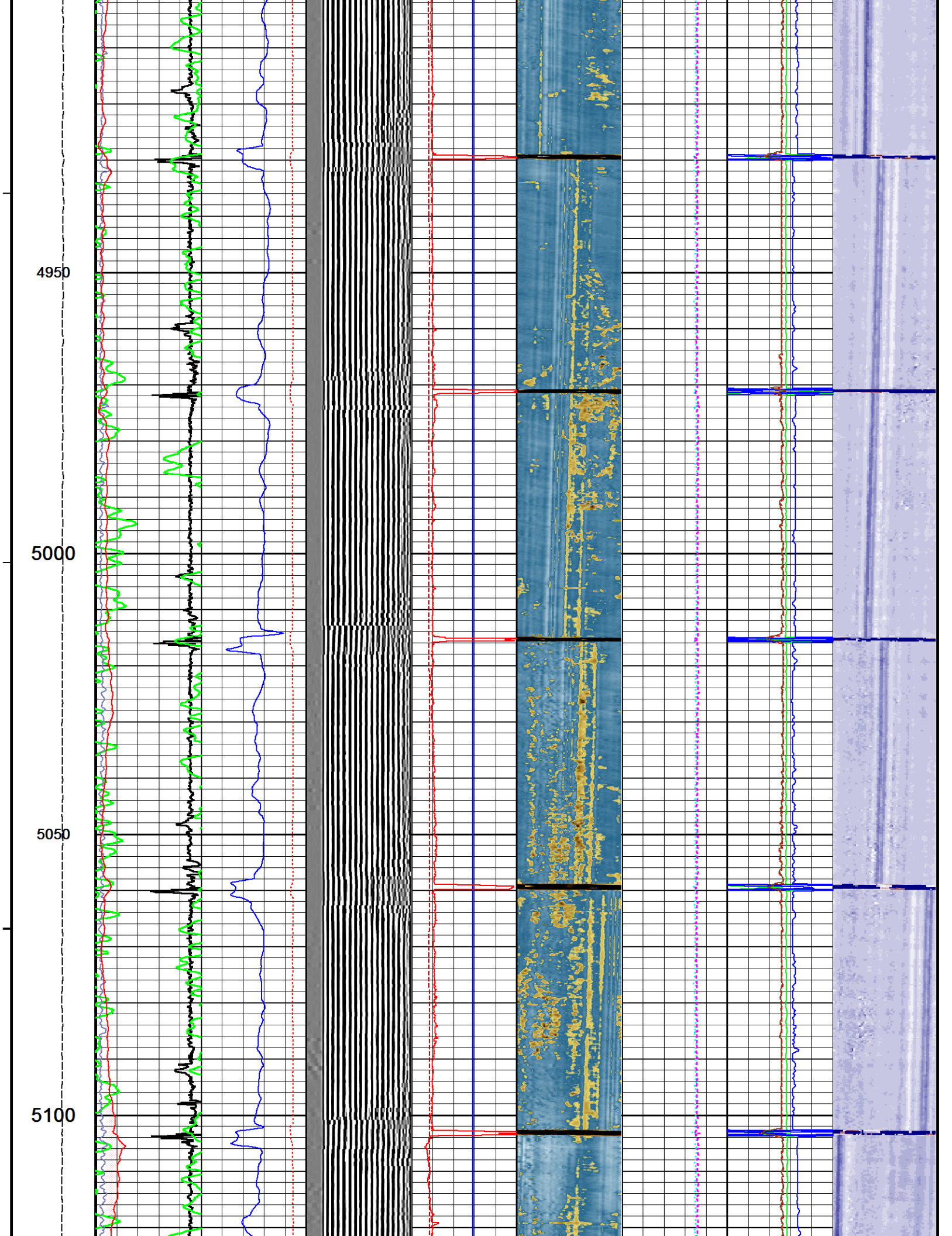


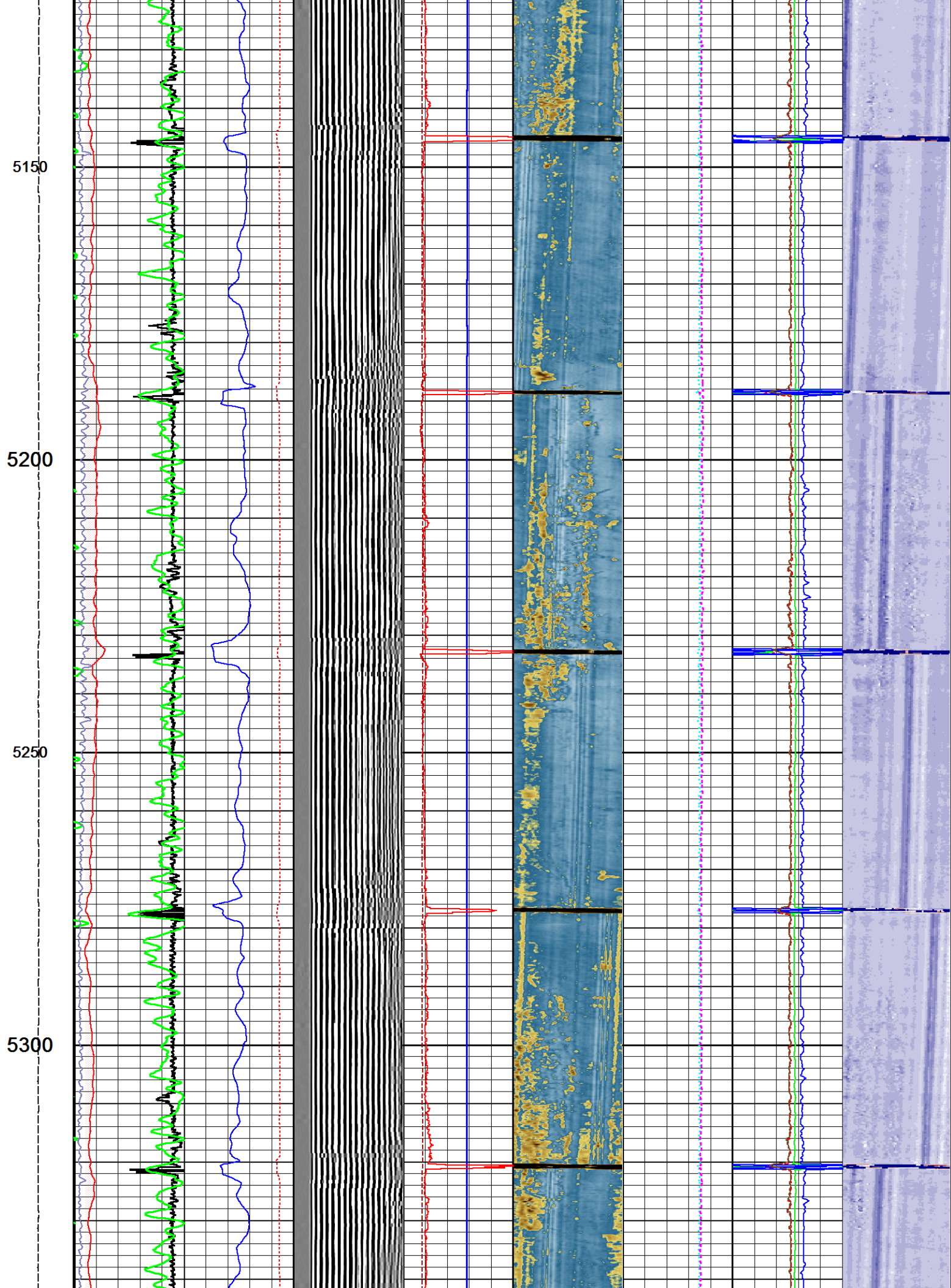












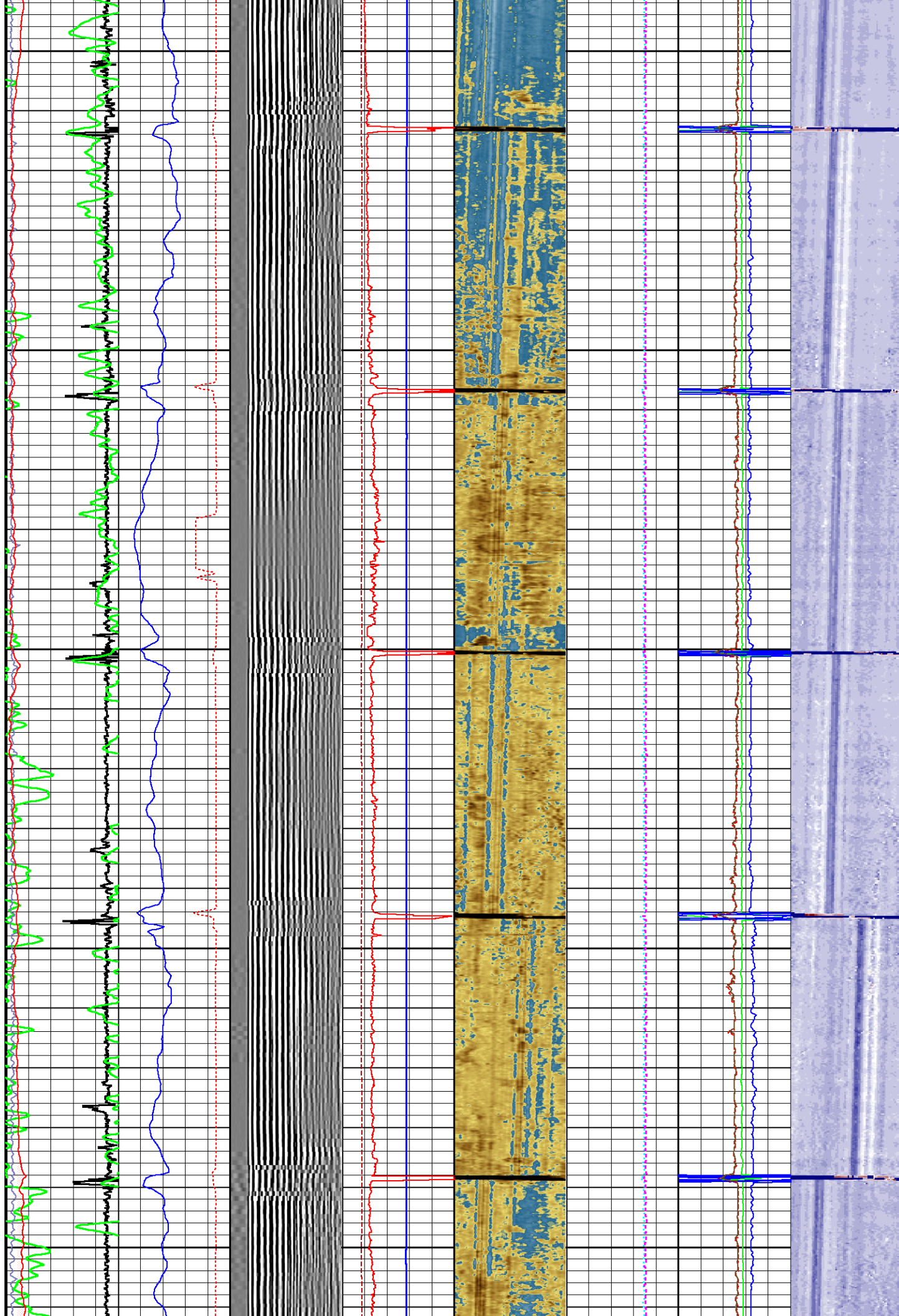
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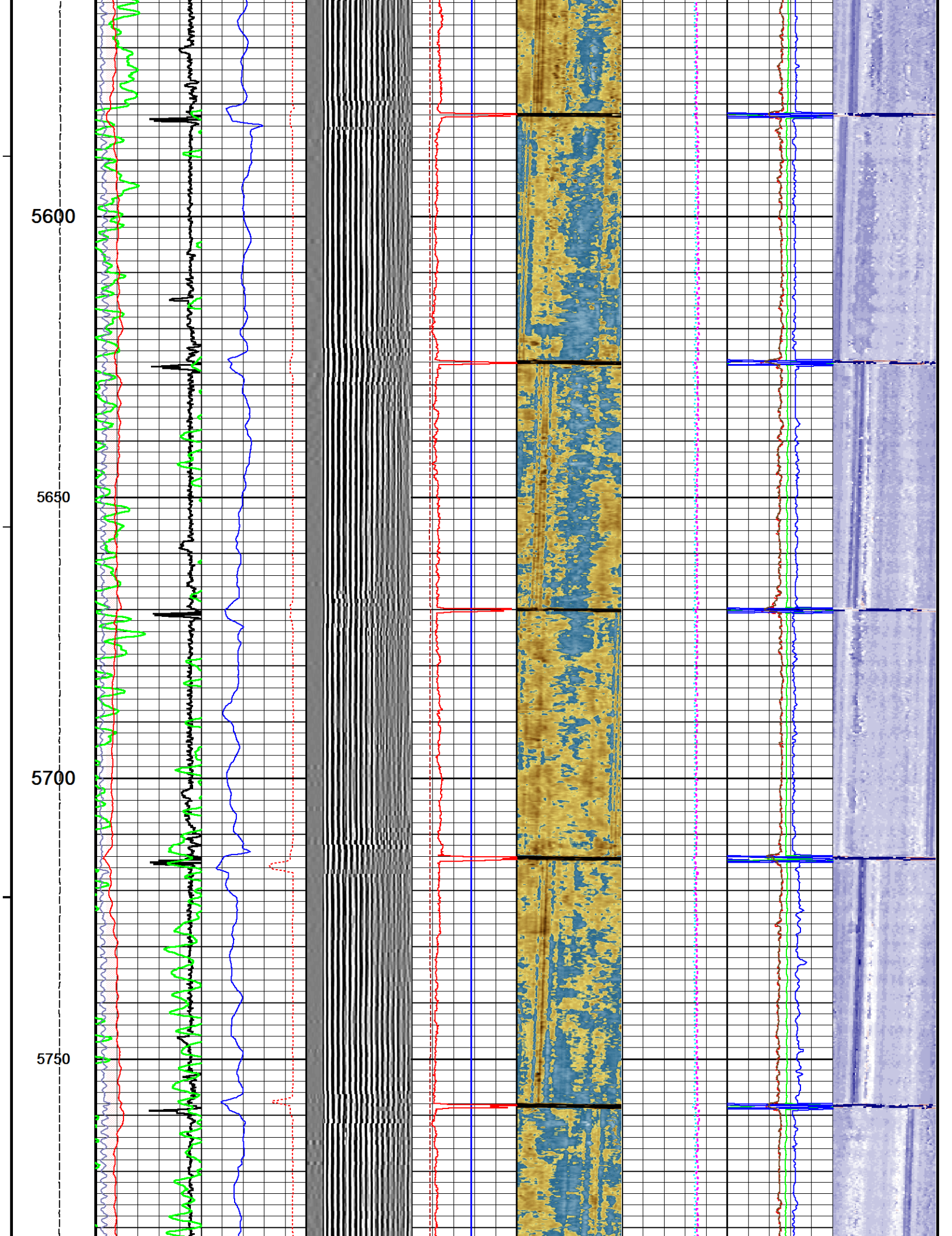
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5450

5500

5550





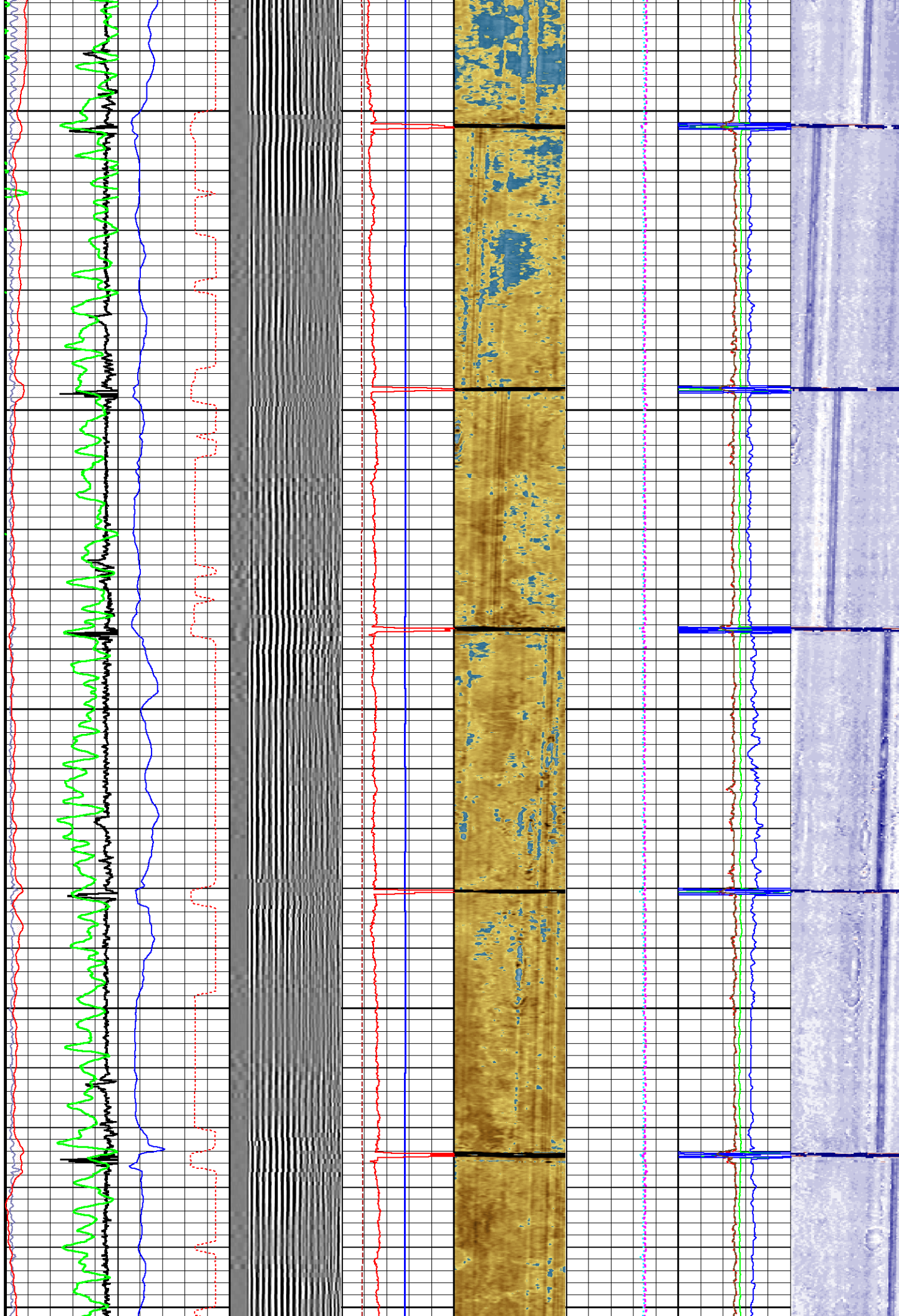
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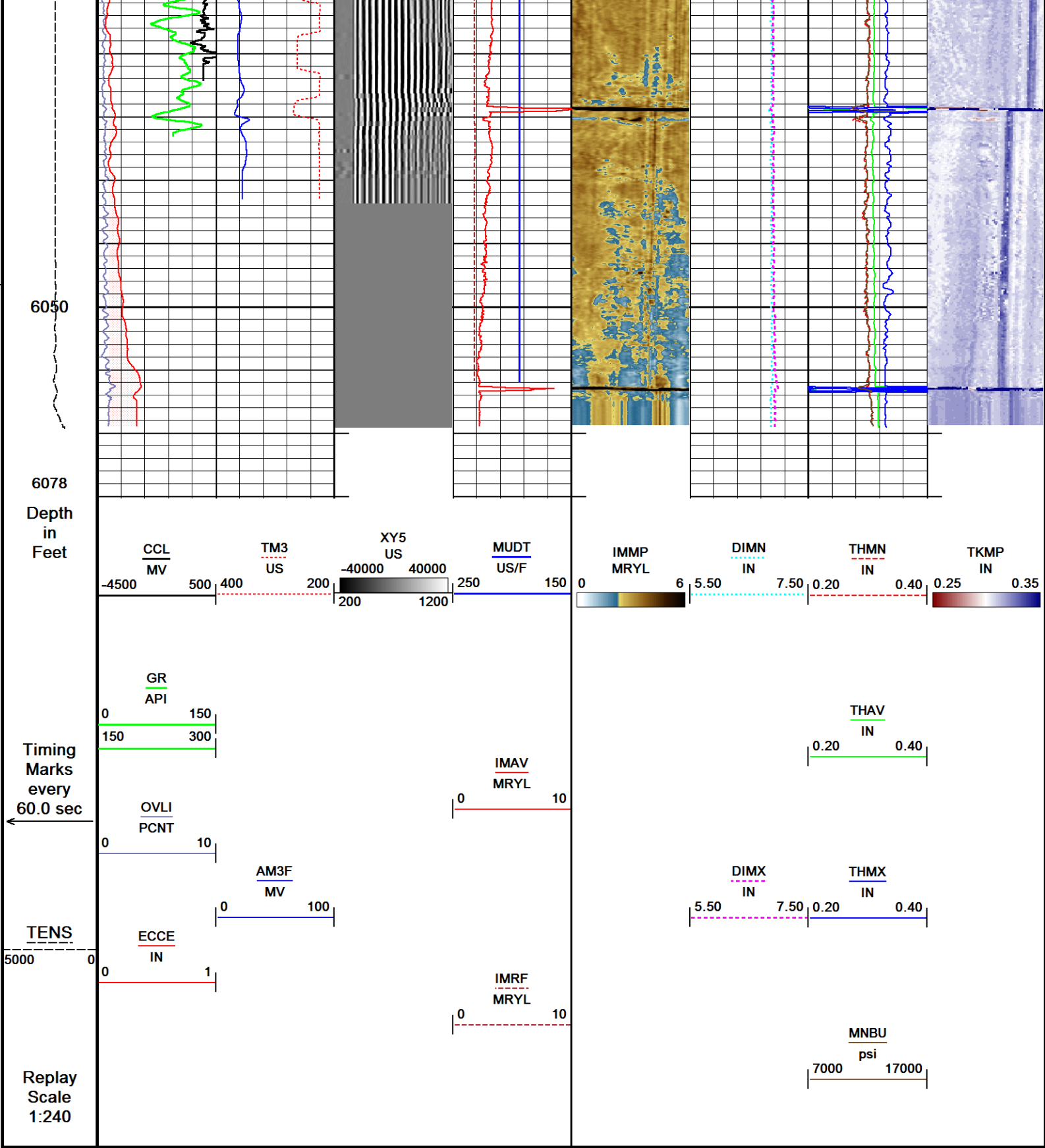
5850

5900

5950

6000





Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\WLS\BONANZA CREEK\...NORTH PLATTE F-J-28 HNC _ URS_ MAIN PASS_002.dta
System Versions: Logged with 18.03.9328 Plotted with 18.03.9328

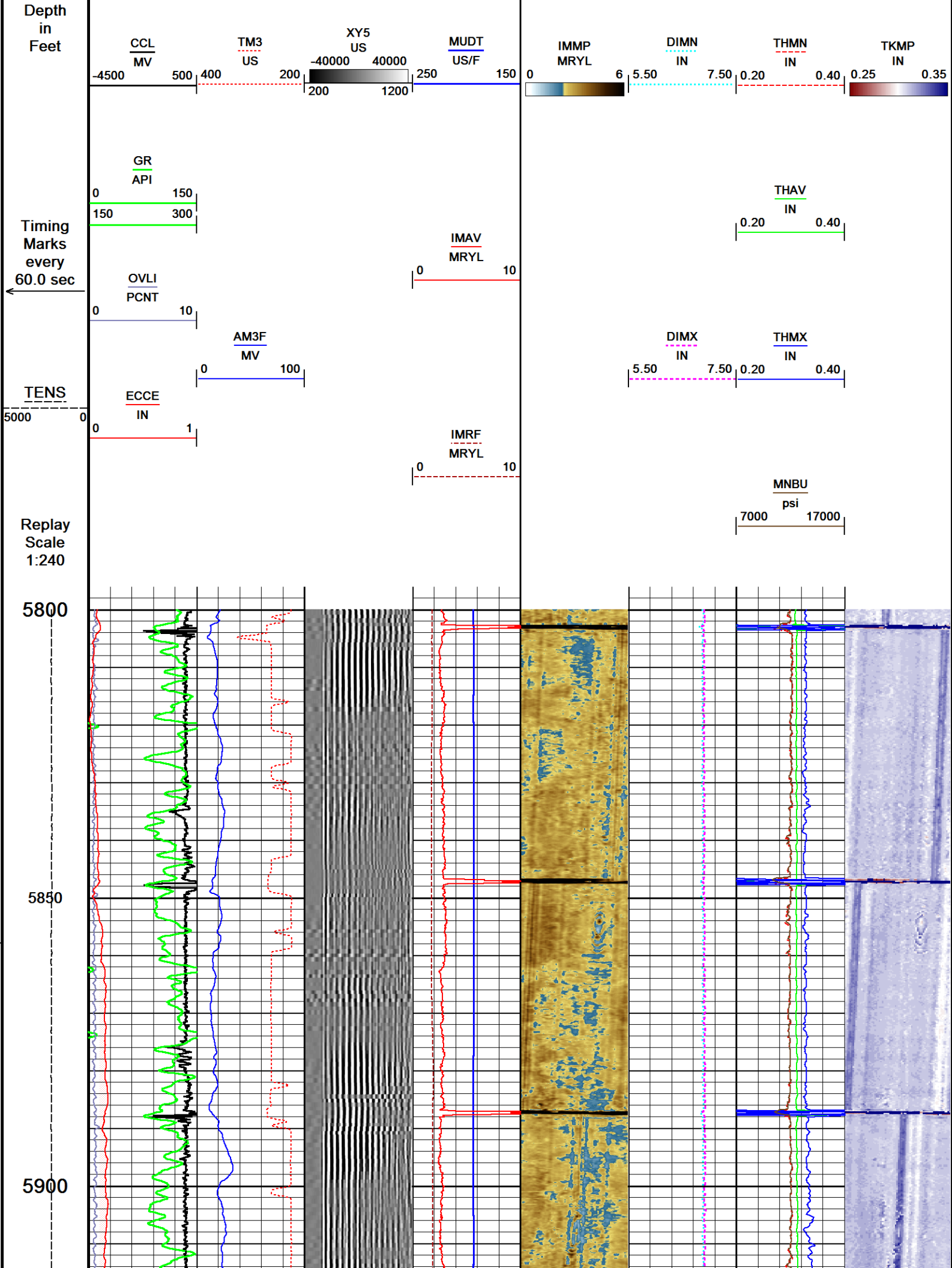
Plotted on 22-OCT-2018 14:26
Recorded on 18-OCT-2018 11:33

MAIN PASS

REPEAT PASS

Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\WLS\BONANZA CREEK\...NORTH PLATTE F-J-28 HNC _ URS_ REPEAT PASS_001.dta
System Versions: Logged with 18.03.9328 Plotted with 18.03.9328

Plotted on 22-OCT-2018 14:26
Recorded on 18-OCT-2018 11:47



5950

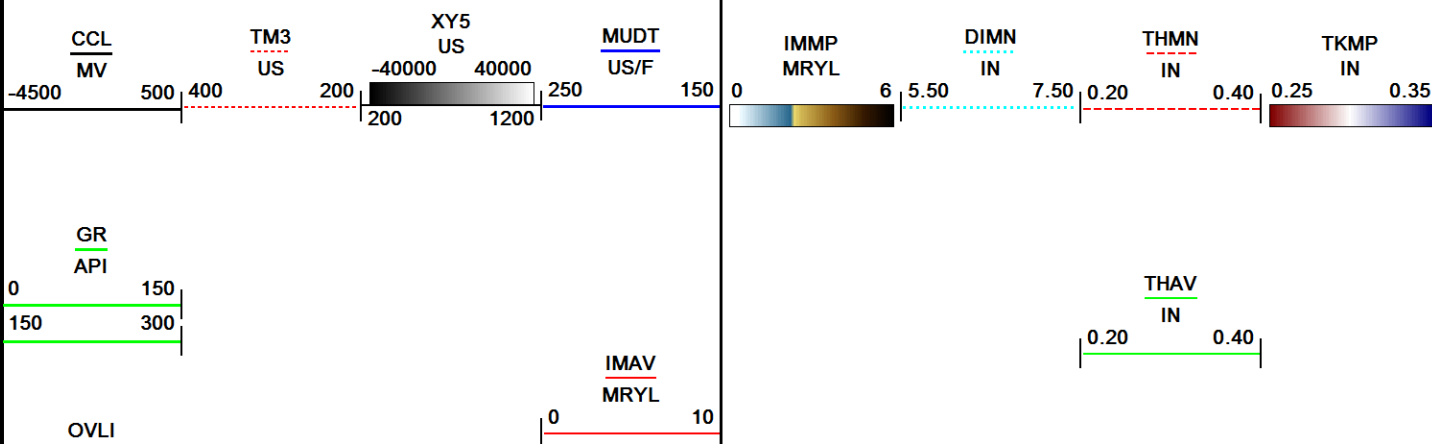
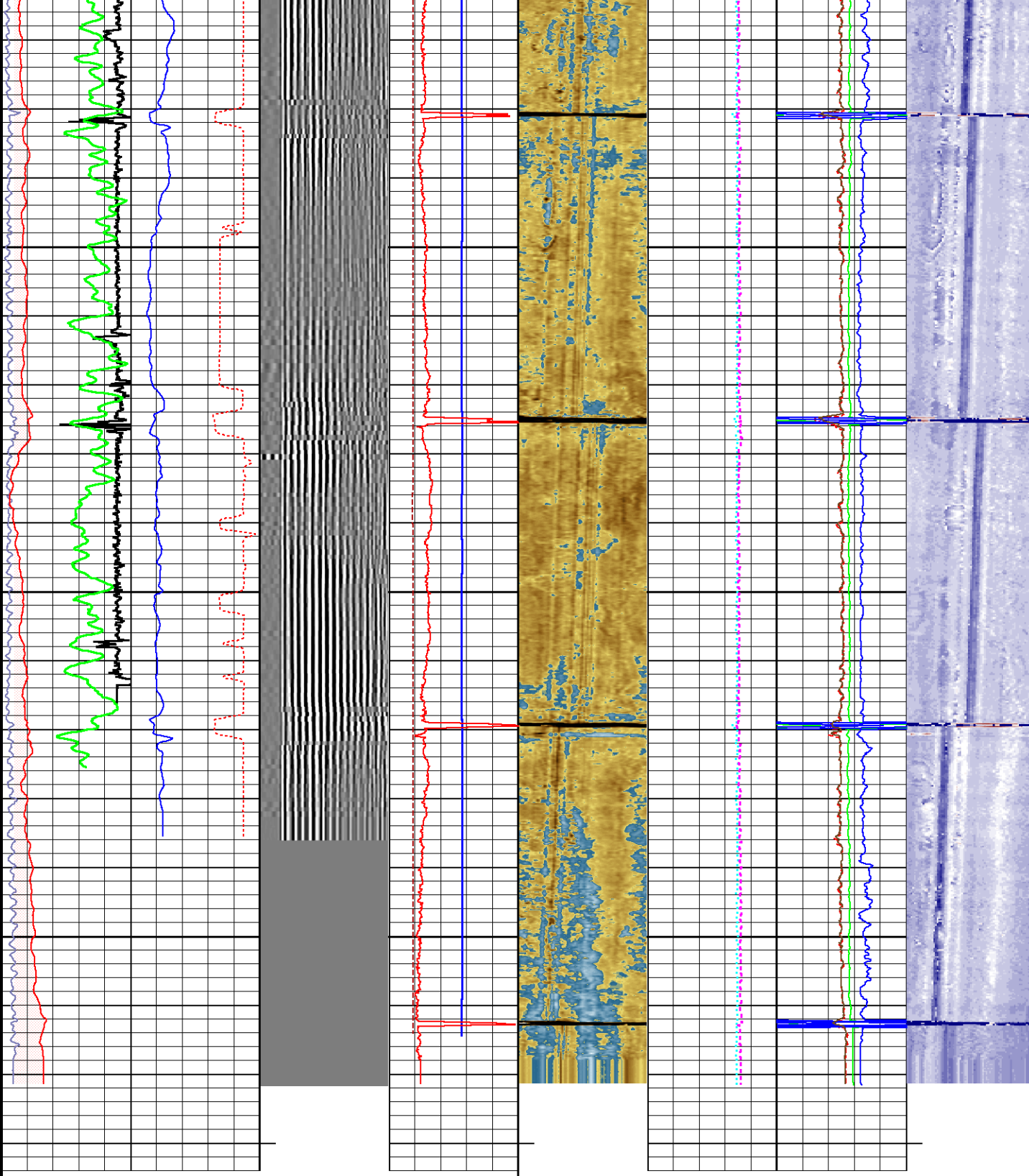
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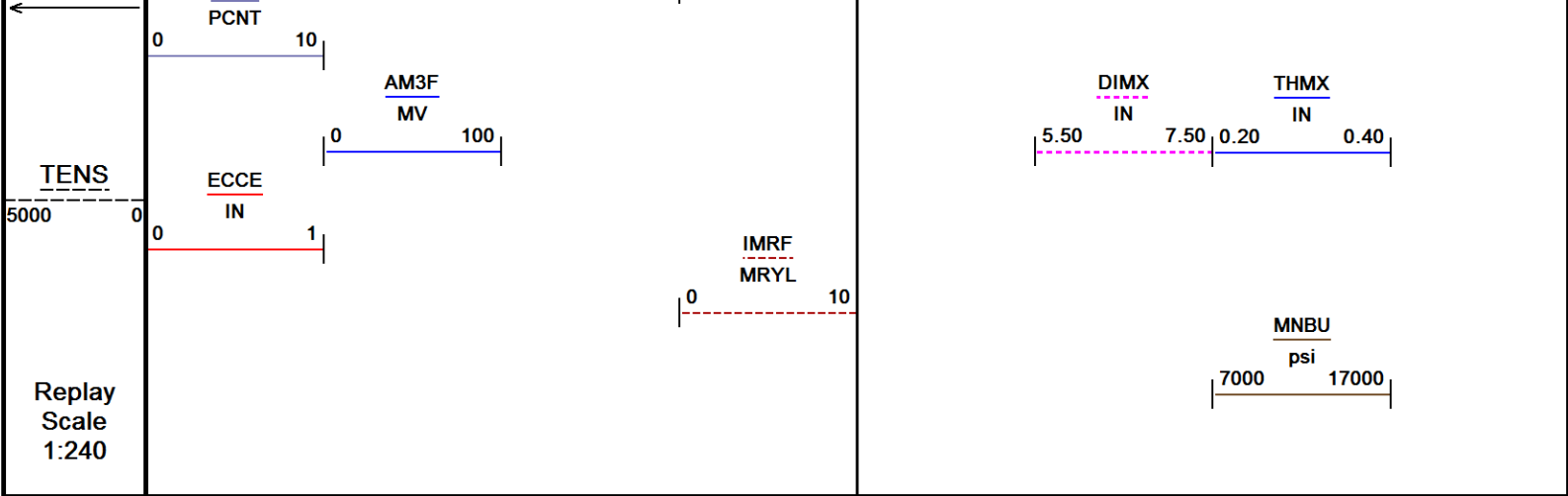
6050

6082

Depth
in
Feet

Timing
Marks
every
60.0 sec

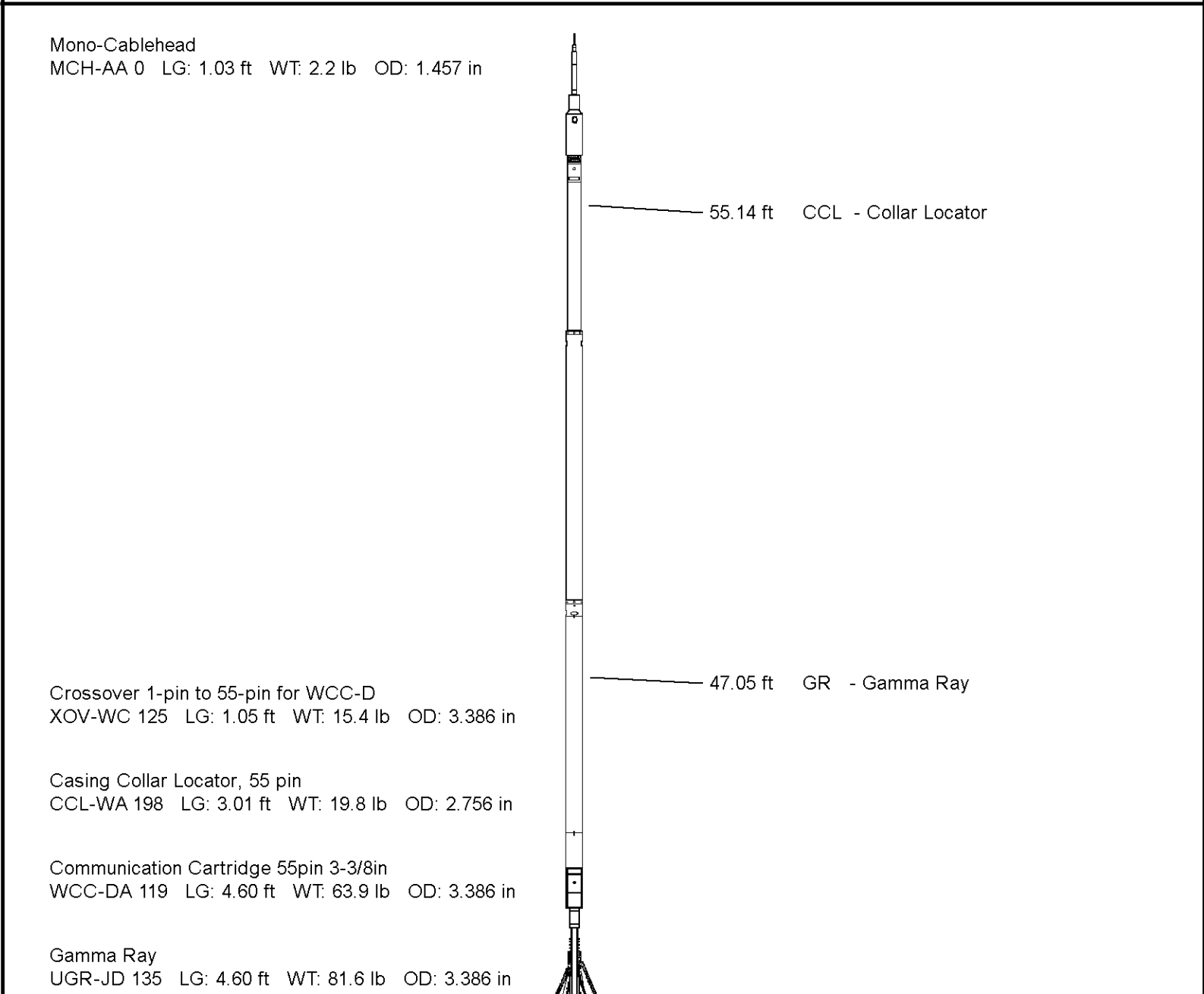




Depth Based Data - Maximum Sampling Increment 2.5cm Plotted on 22-OCT-2018 14:26
Filename: C:\WLS\BONANZA CREEK\NORTH PLATTE F-J-28 HNC _ URS _ REPEAT PASS_001.dta Recorded on 18-OCT-2018 11:47
System Versions: Logged with 18.03.9328 Plotted with 18.03.9328

↑ REPEAT PASS ↑

DOWNHOLE EQUIPMENT
C:\WLS\BONANZA CREEK\NORTH PLATTE F-J-28 HNC\NORTH PLATTE F-J-28 HNC _ URS_RIH.dta



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

Cement Bond Tool
CBT-AA 115 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

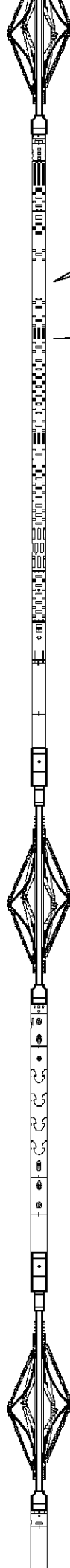
35.70 ft XY5 - XY Signature 5FT

55 pin Roller Centralizer
CEN-XA 225 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 213 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



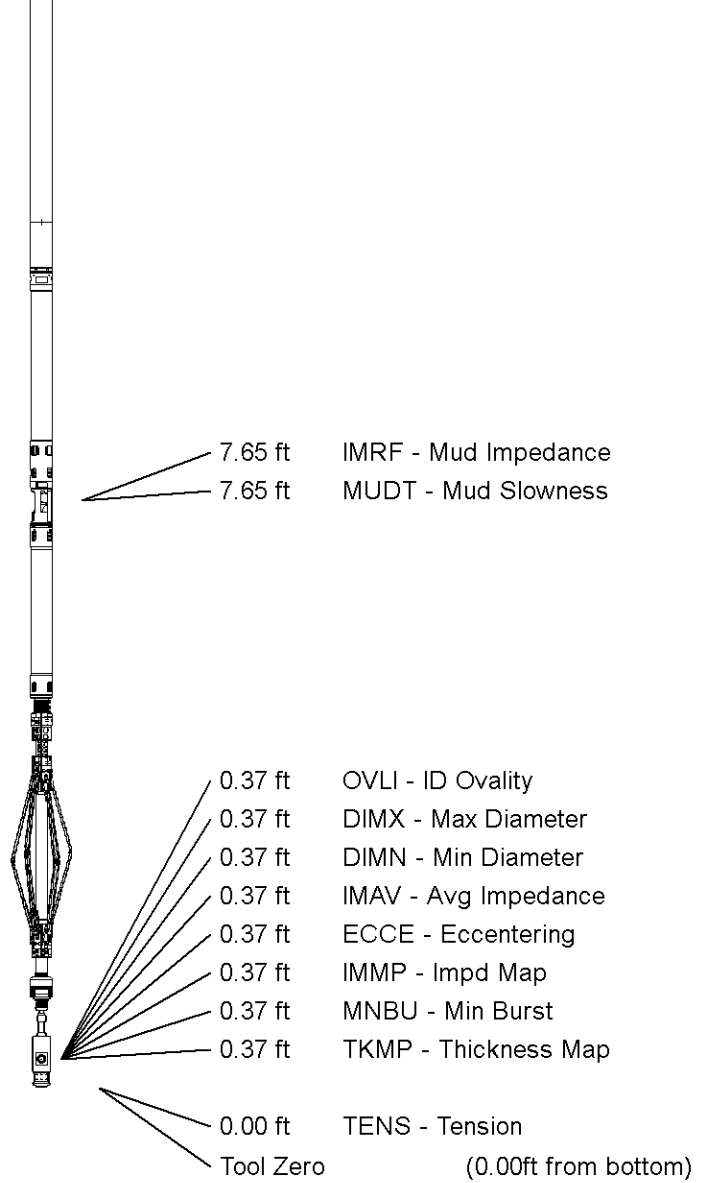
URS Sonde Section

USS-AB 189 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: 58.06 ft Weight: 954.6 lb



All measurements relative to tool zero.

SHOP AND FIELD CALIBRATIONS

C:\WLS\BONANZA CREEK\NORTH PLATTE F-J-28 HNC\NORTH PLATTE F-J-28 HNC _ URS_ MAIN PASS.dta

CBT Field Calibration CBT-AA 115

Field calibration on 18-OCT-2018 08:23

Cement Bond Tool Amplitude Field Calibration

Tool Type	CBT-AA	Serial No	115
		Free Pipe Depth	1866.0 F
Sensor	Description	Standard(mV)	Measured(mV)
AMP 3 FT	100 % Bond	5.60	1.50
	Free Pipe	72.00	377.98
AMP 5 FT	100 % Bond	0.90	2.12
	Free Pipe	48.00	337.47

CBT Constants CBT-AA 115

Last Edited on 18-OCT-2018 08:13

Min Ampl 100% Bond	5.63 MV
Max Ampl 0% Bond	71.77 MV
Cement Cmpr Strength	580 PSI
Casing Size	5.50 IN
Casing Weight	17.0 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 18-OCT-2018 08:25

Ultrasonic Radial Scanner Before Calibration

Tool Type USH-AB Serial No 136

	Measured	Minimum	Maximum	
Free Pipe	3.149	3.123	3.172	MRYL
Mud Impedance	3.774	3.752	3.786	MRYL

URS Constants USH-AB 136

Last Edited on 18-OCT-2018 08:13

*** 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	3.17
ZMud Cal Area Ratio	3.79

** 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	1629.00	5.50	36.00	1.50	1.50	0.30	1.00
0.00	11680.00	5.50	17.00	3.17	3.77	0.30	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 MRYL
Z_mud Outside	1.70 MRYL
Gas Impedance Cutoff	0.38 MRYL
Fluid Impedance Cutoff	2.30 MRYL
Cement Impedance Cutoff	2.70 MRYL

Contam Impedance Cutoff	2.70 MRYL
Relative Bearing Rotate	OFF
RB Offset Angle	0.00 DEG
Cement Density	14.00 LB/G

COMPANY	BONANZA CREEK ENERGY				
WELL	NORTH PLATTE F-J-28 HNC				
FIELD	WATTENBERG				
PROVINCE/COUNTY	WELD				
COUNTRY/STATE	US / COLORADO				
Elevation Kelly Bushing	4570	feet	Bottom Log Interval	6065.00	feet
Elevation Drill Floor	4570	feet	Depth Driller	11610.00	feet
Elevation Ground Level	4553	feet	Depth Logger	6065.00	feet



SECUREVIEW
ULTRAVIEW / BONDVIEW
COMPOSITE