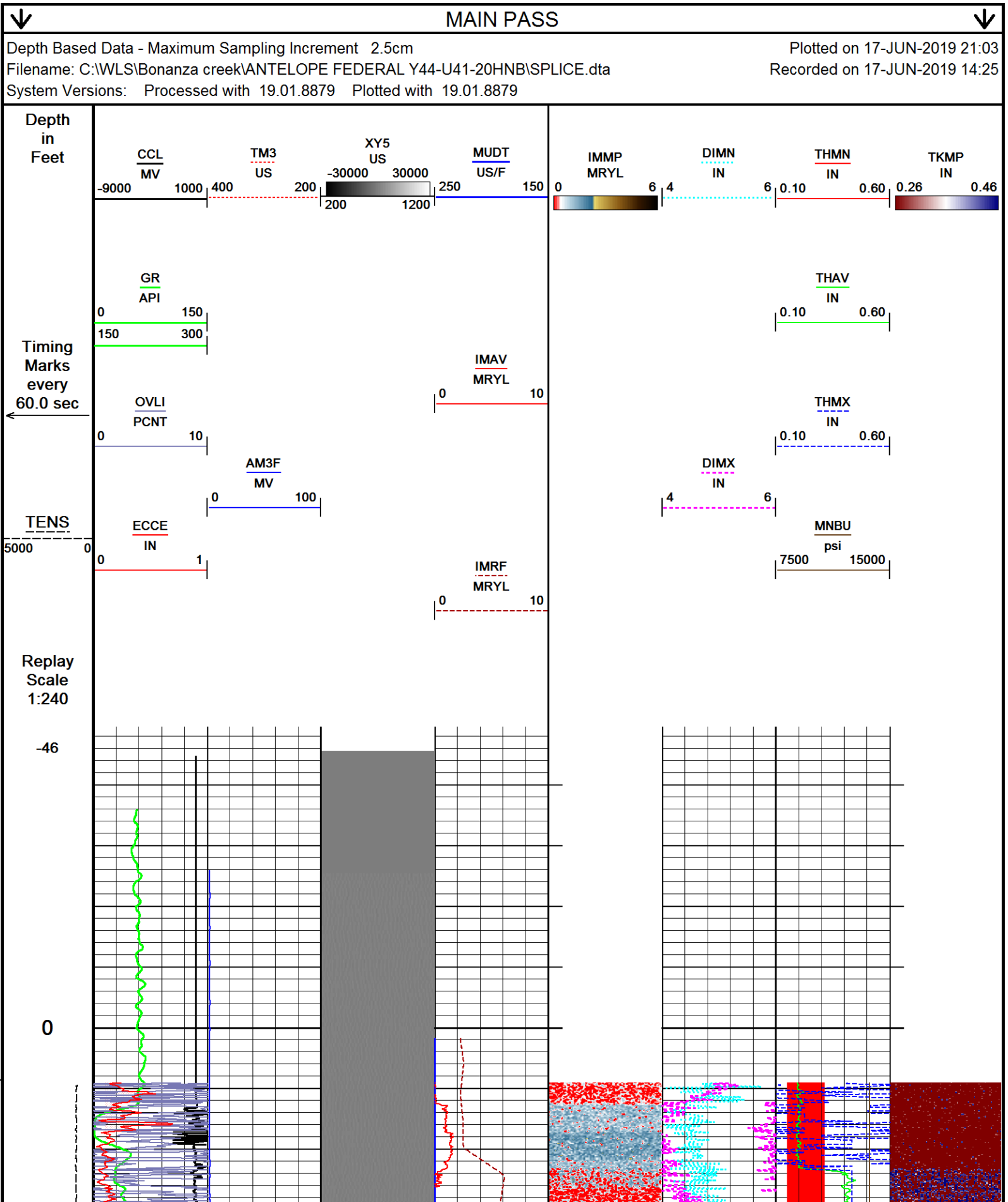
										<div>SECUREVIEW</div> <div>ULTRAVIEW / BONDVIEW</div>									
COMPANY										BONANZA CREEK ENERGY									
WELL										ANTELOPE FEDERAL Y44-U41-20 HNB									
FIELD										WATTENBERA									
PROVINCE/COUNTY										WELD									
COUNTRY/STATE										USA/COLORADO									
LOCATION										649' FSL 2348' FEL									
SEC 20		TWP 5N		RGE 62W		Other Services CALVIEW													
Latitude																			
Longitude																			
API Number		05-123-49095																	
Permanent Datum GL, Elevation 4657 feet																			
Log Measured From KB, 17.00 feet above Permanent Datum																			
Drilling Measured From KB																			
										Elevations: KB 4674.00 DF 4674.00 GL 4657.00									
Date		17-JUN-2019				PERFORATION RECORD													
Run Number		ONE				Shot		Number		Depth From		Depth To							
Service Order		18188-247975268				Density		of Shots		feet		feet							
Type Log		URS/CBL																	
Depth Driller		12736.00																	
Depth Logger		6500.00																	
Top Log Interval		0.00																	
Bottom Log Interval		6500.00																	
Hole Fluid Type		WATER																	
Hole Fluid Level		0.00																	
Restriction ID		4.892																	
Max Recorded Temp		105.90				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				5.500		17.00		0.00		12726.00							
Equipment Name		WSS-E																	
Base		CASPER																	
Recorded By		BASHEER AL-KAFAF																	
Witnessed By		KURT DODGE																	

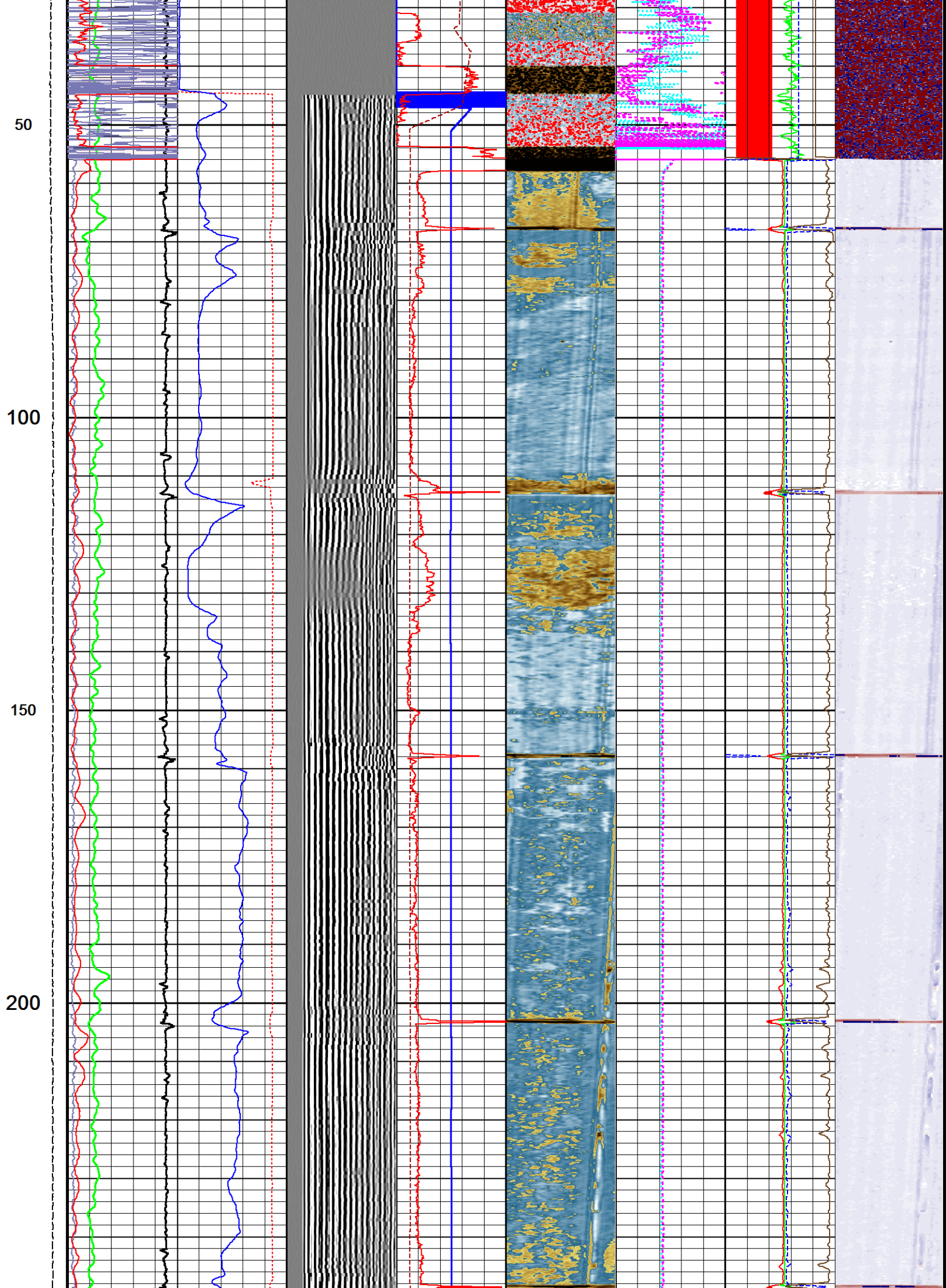
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	P-110	LT&C	5.500	0.00	12726.00	17.00

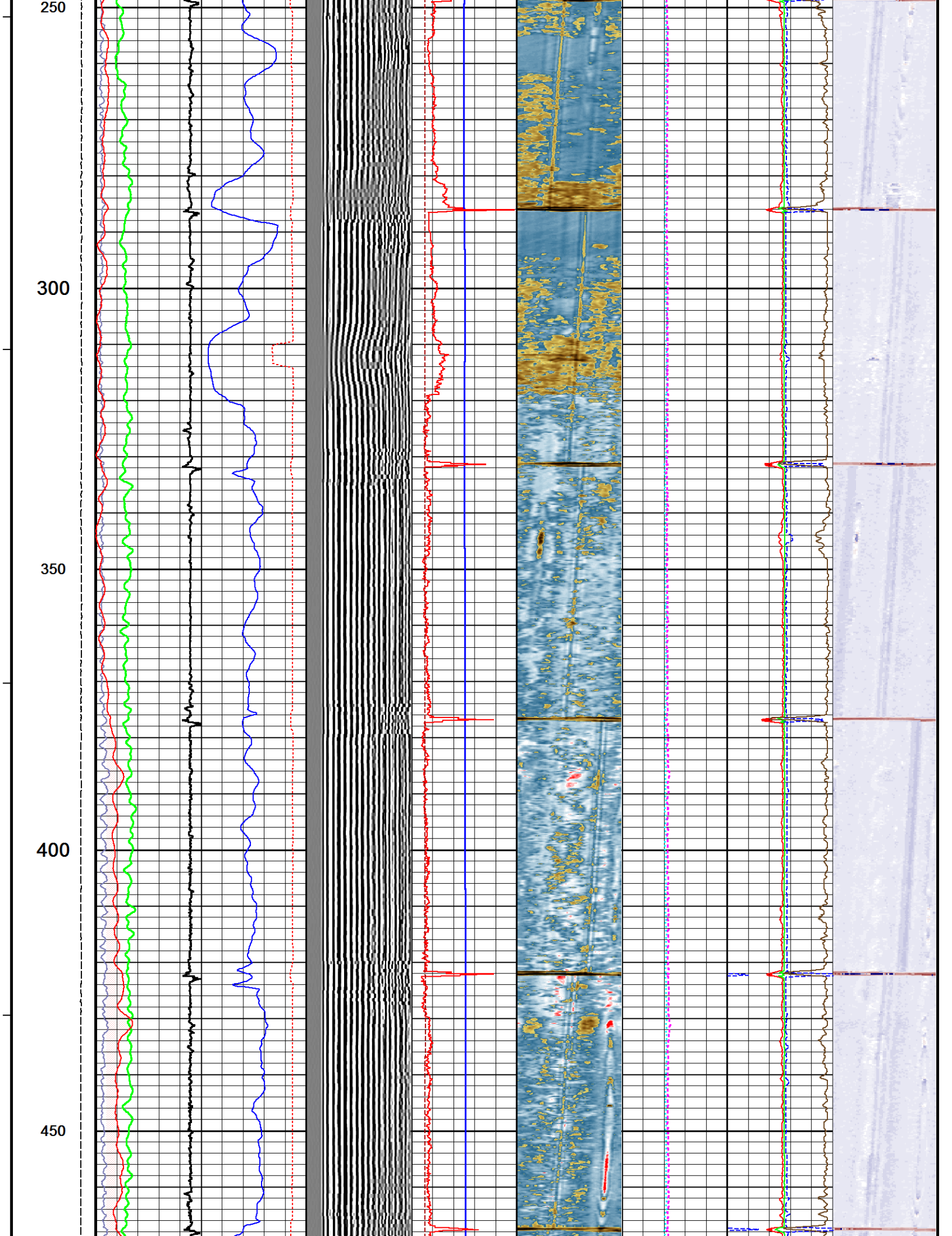
REMARKS
-DEPTH CONTROL SYSTEM BENCHMARK, Z-CHART
-LOGGING WAS CORRELATED TO RIG KB @ 17' ABOVE GROUND LEVEL.
-100% STANDARD FREE PIPE AMPLITUDE IN CASING 5.5" 17 PPF IS 72 MV.
-MAX RECORDED TEMPERATURE 105.9 F
-TOC ESTIMATED @ 1650'
-CREW: AARON BITTLESTON, JAMES HAYCOCK
-WEATHERFORD WIRELINE SERVICES!

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.





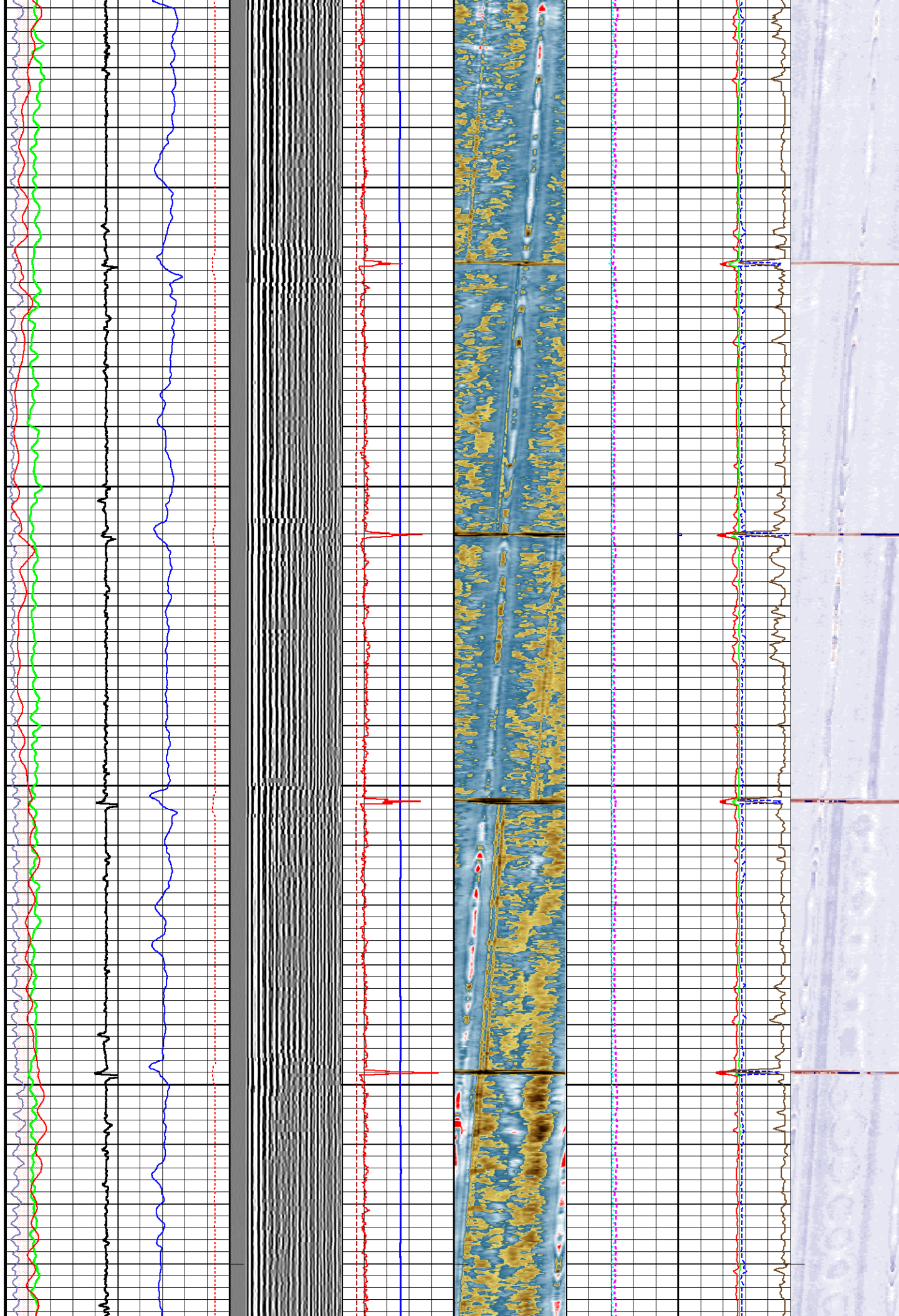


500

550

600

650



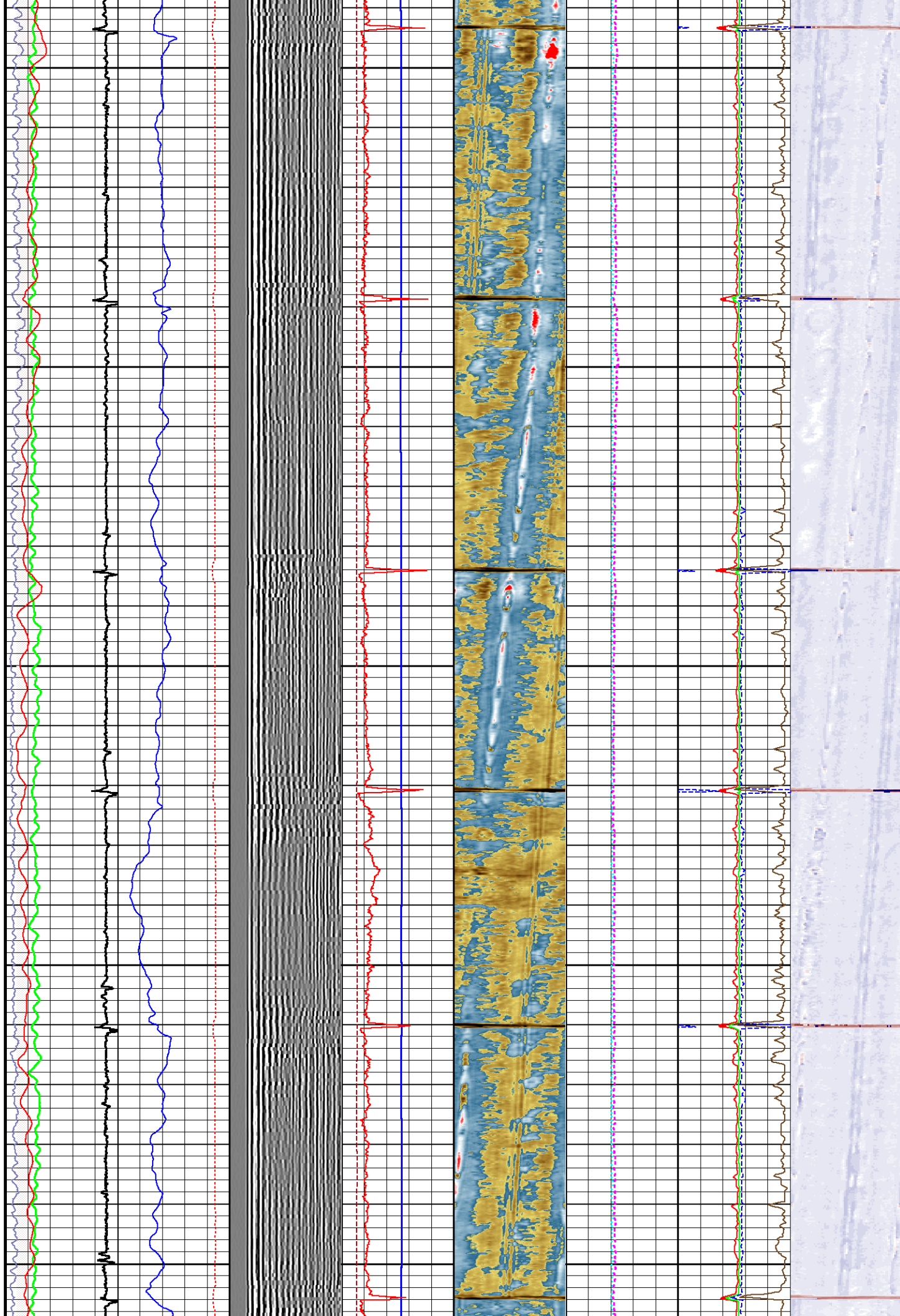
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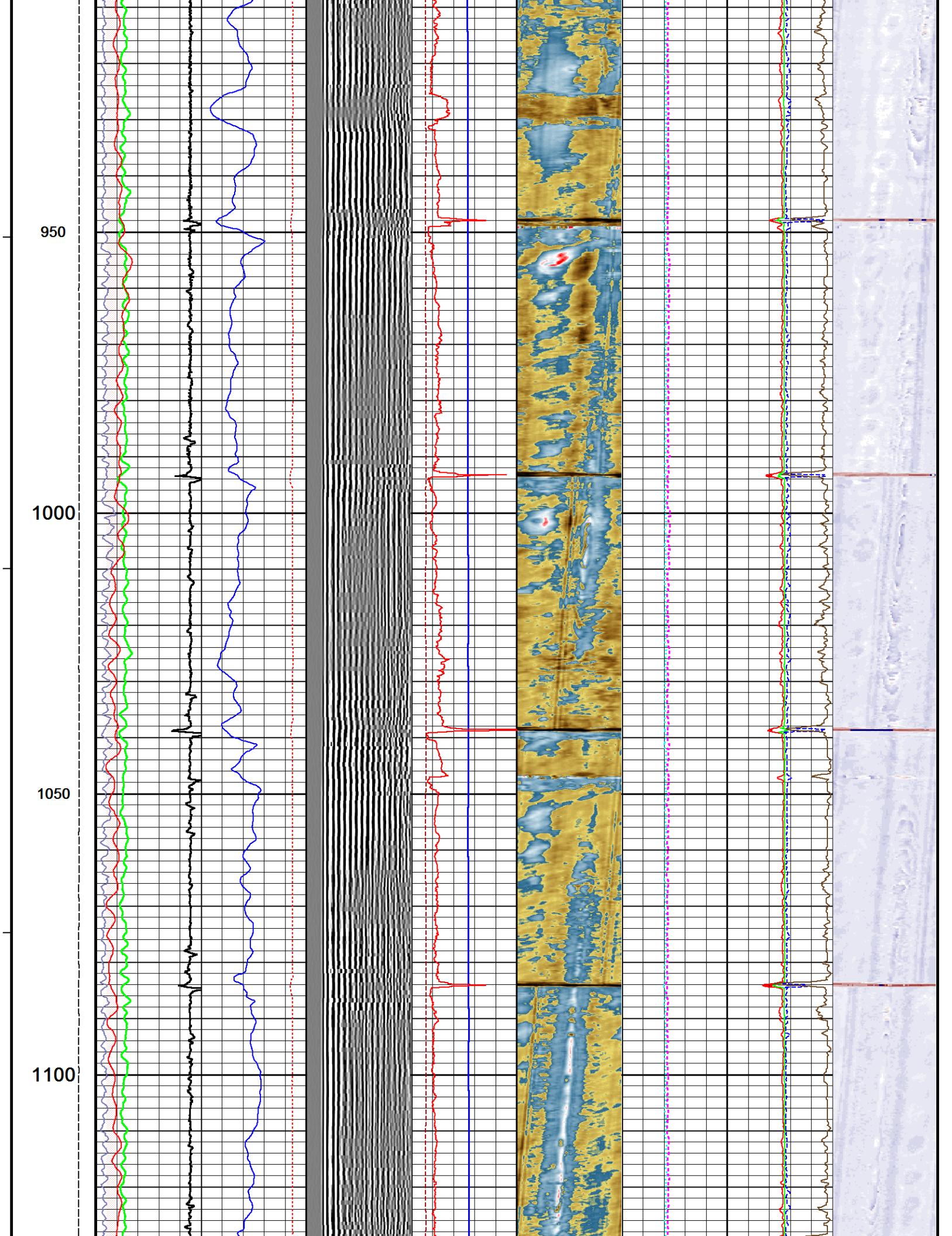
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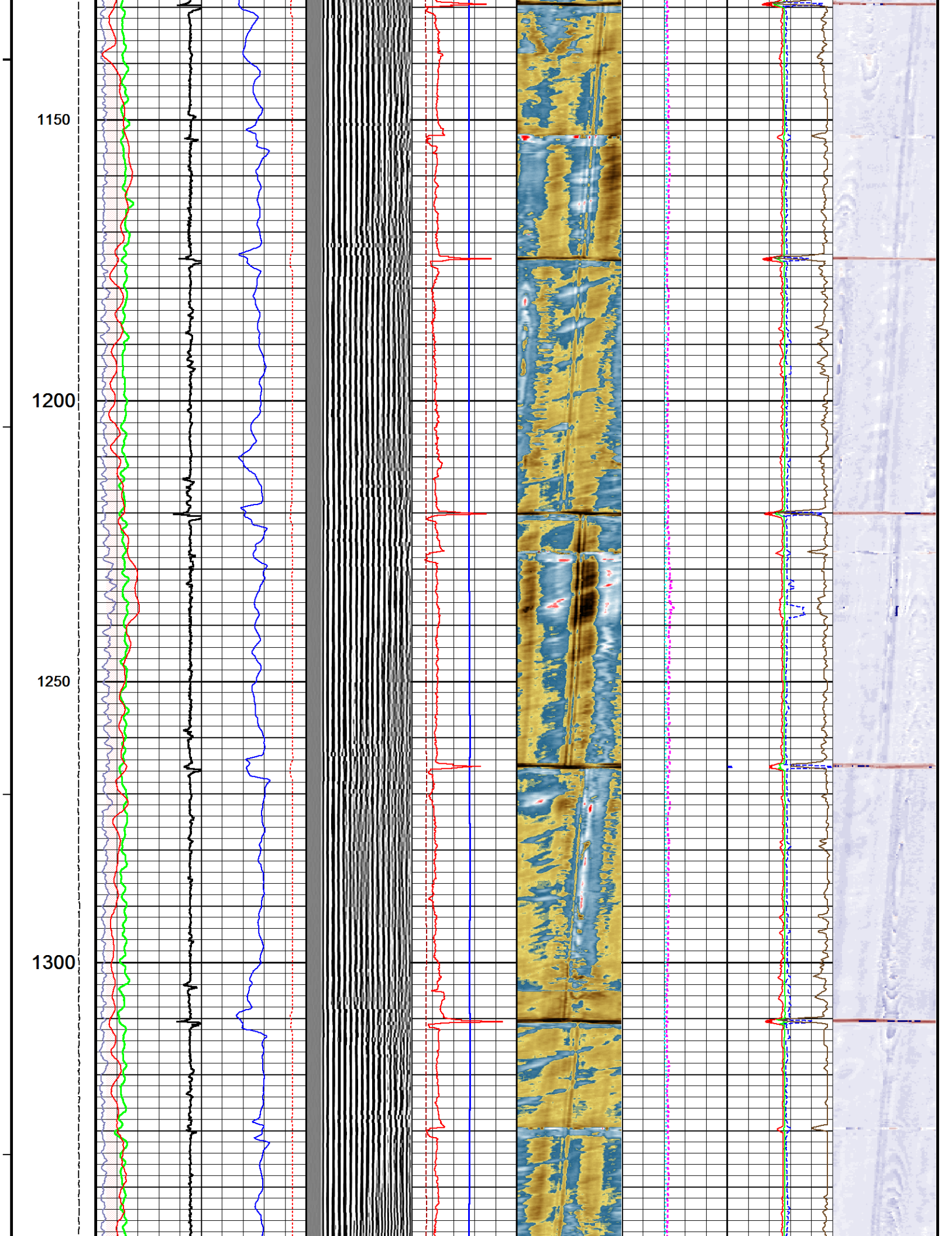
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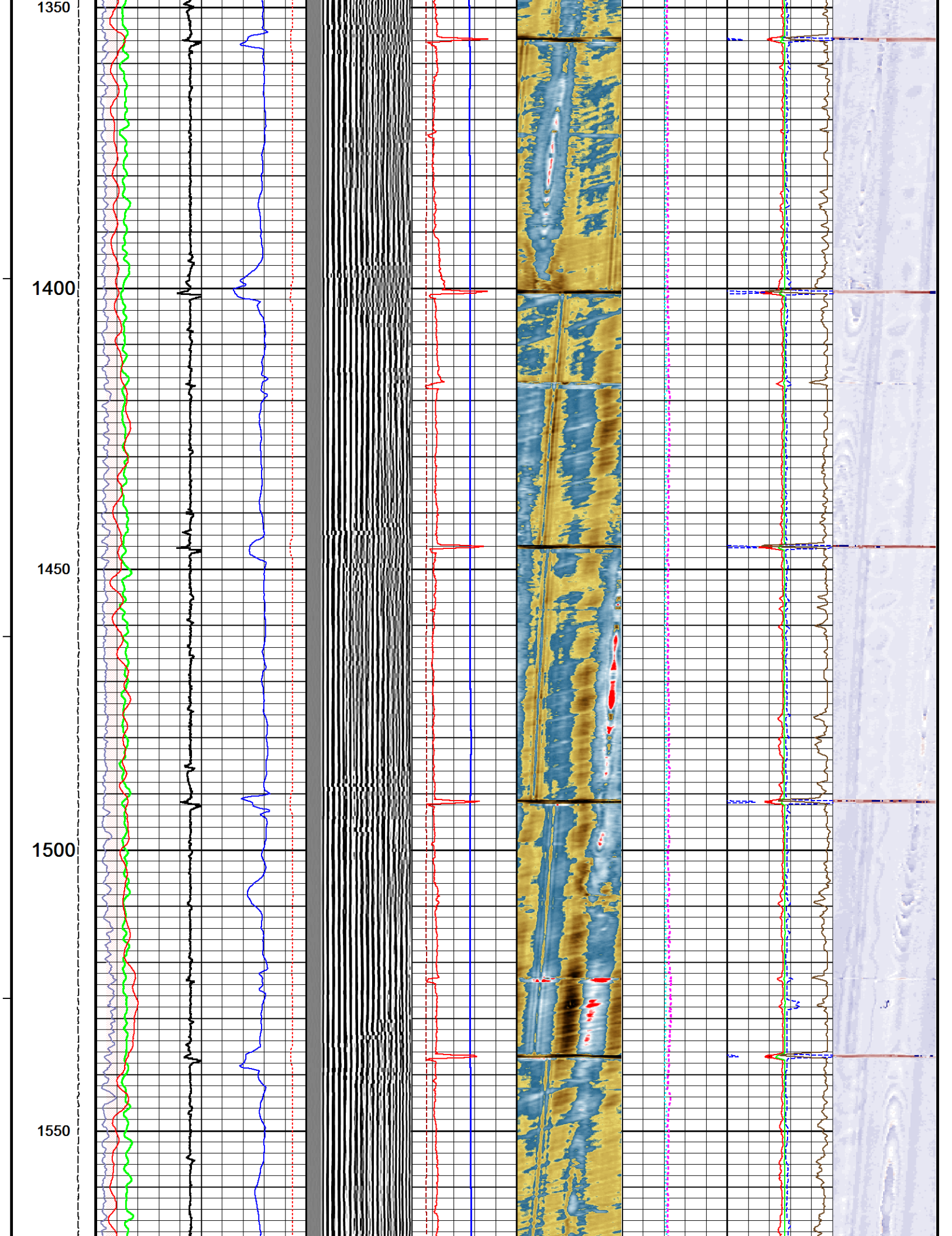
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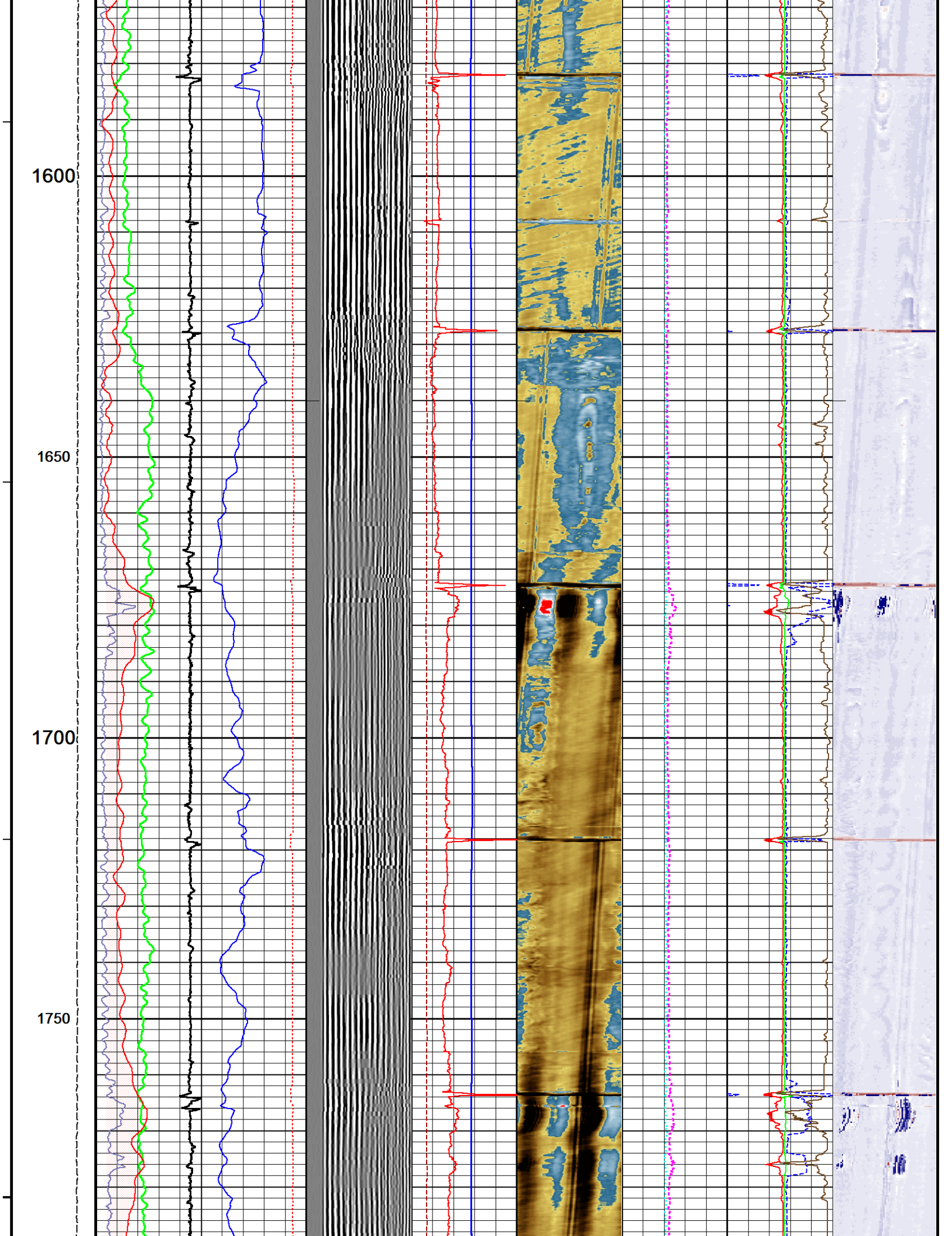
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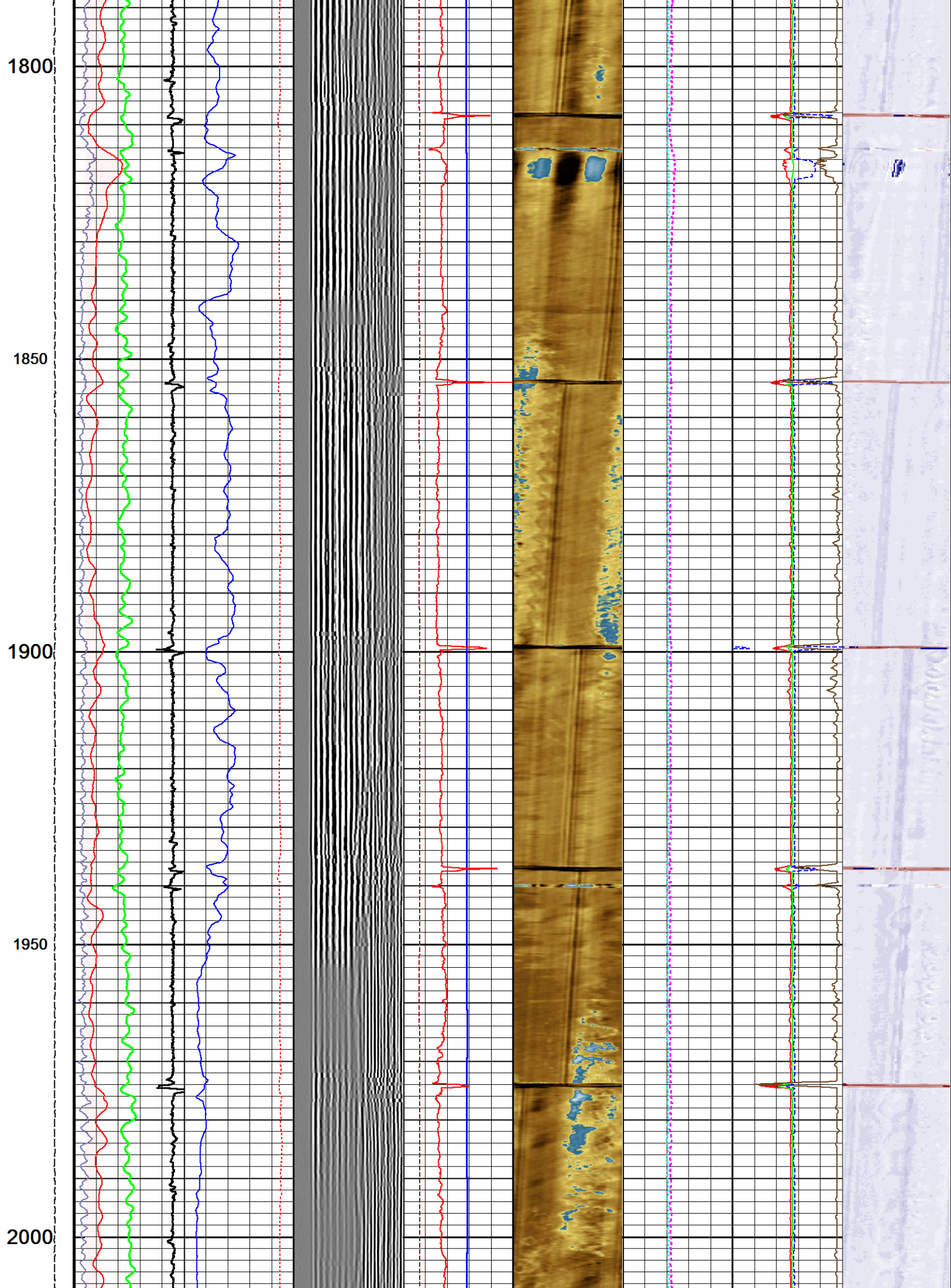


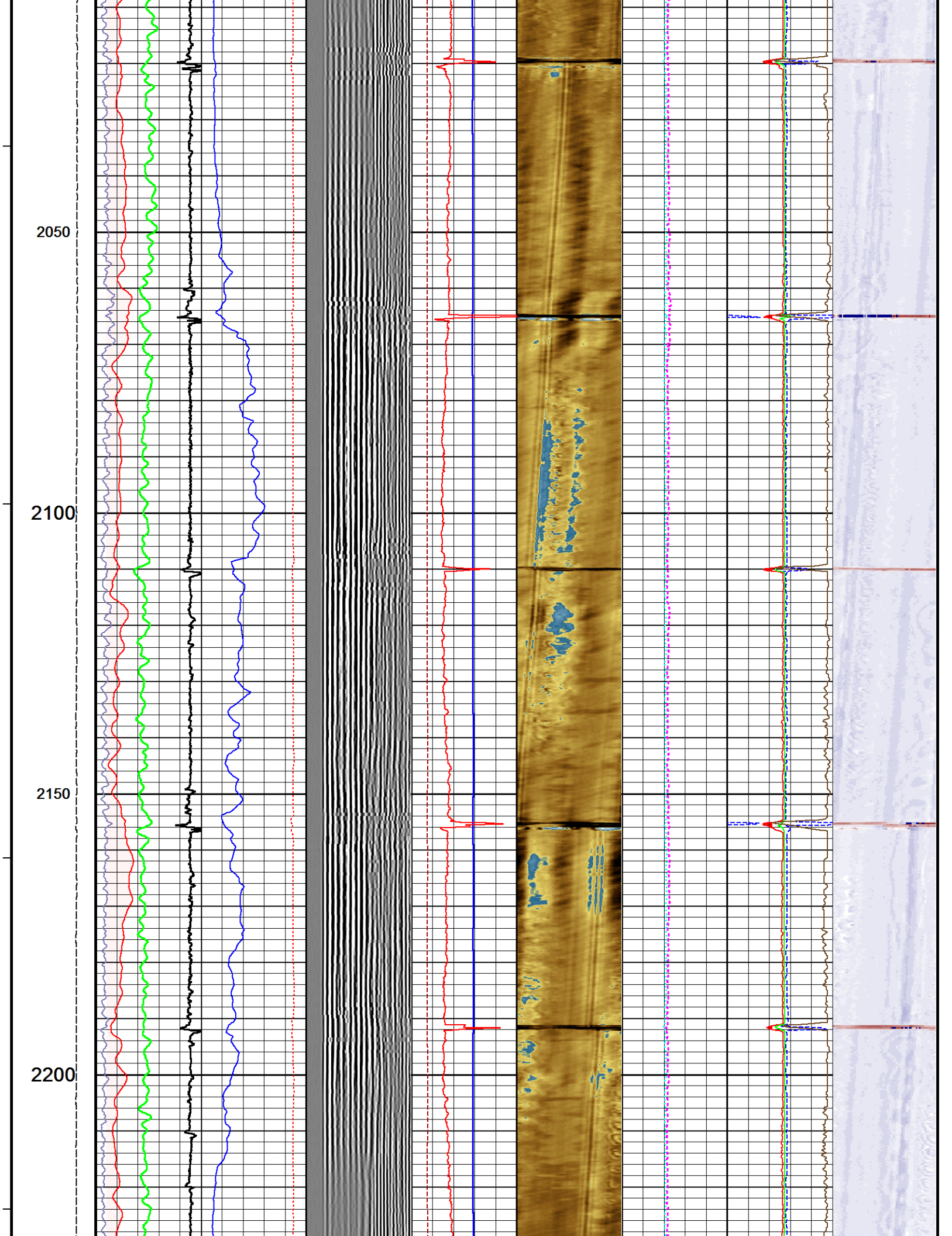


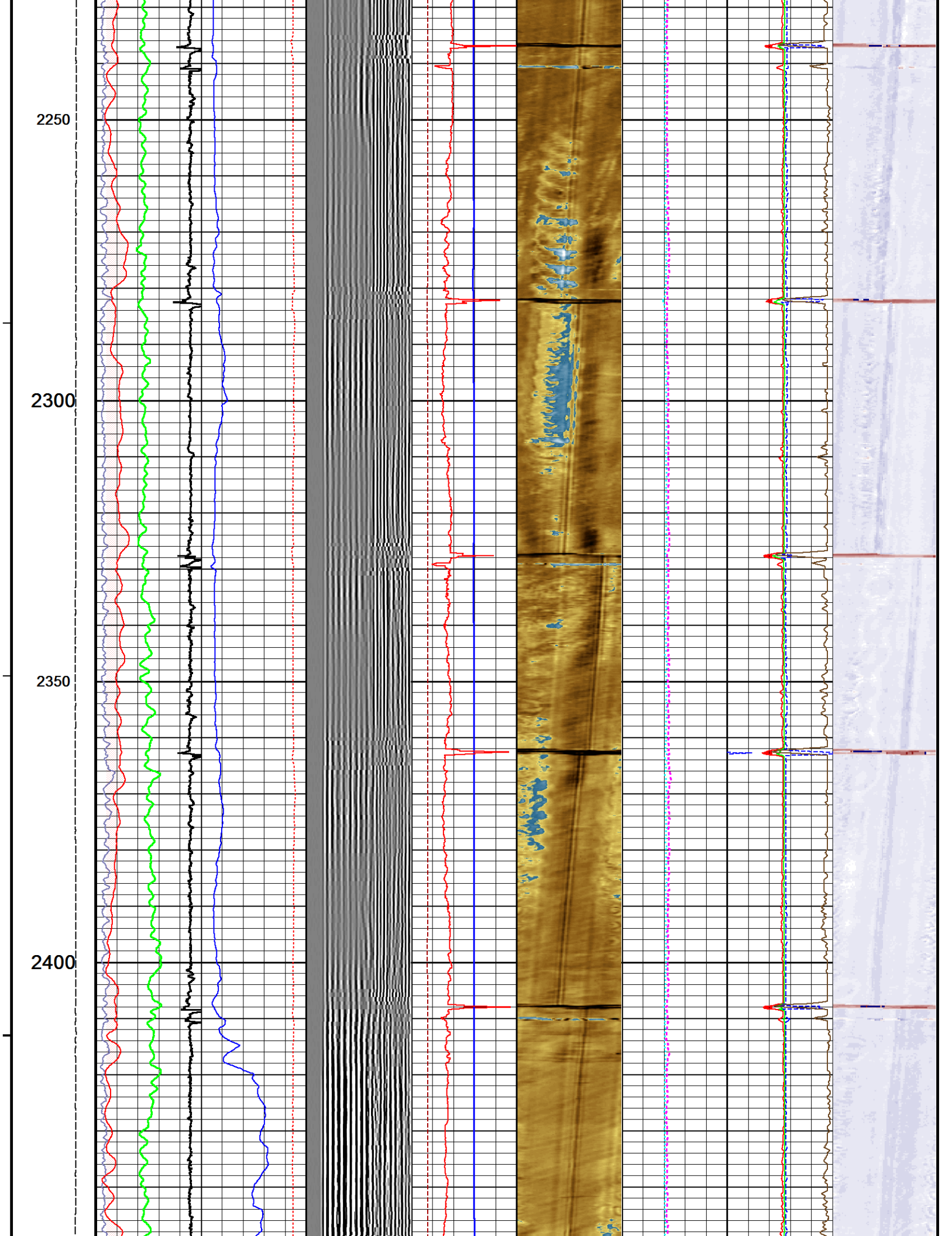


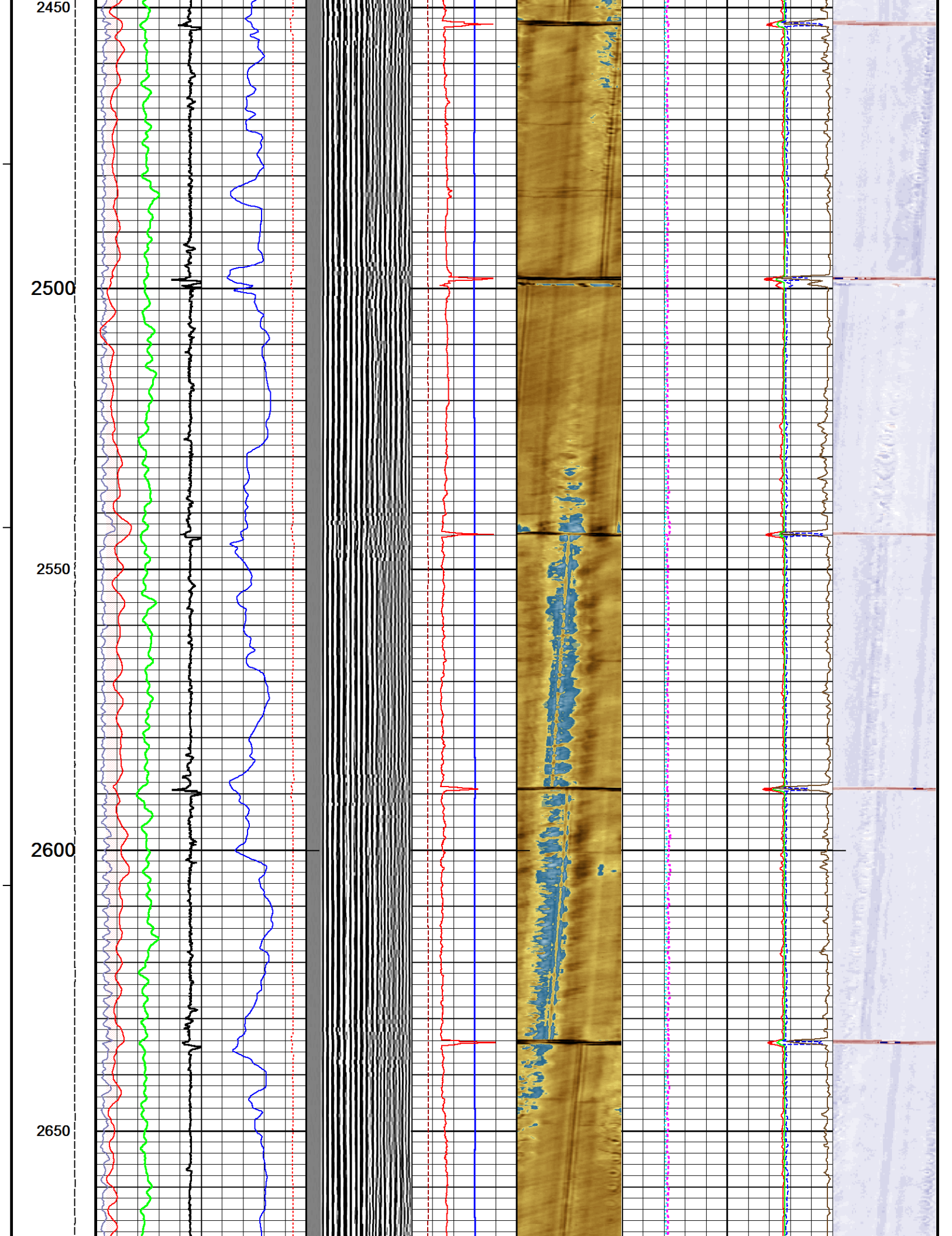


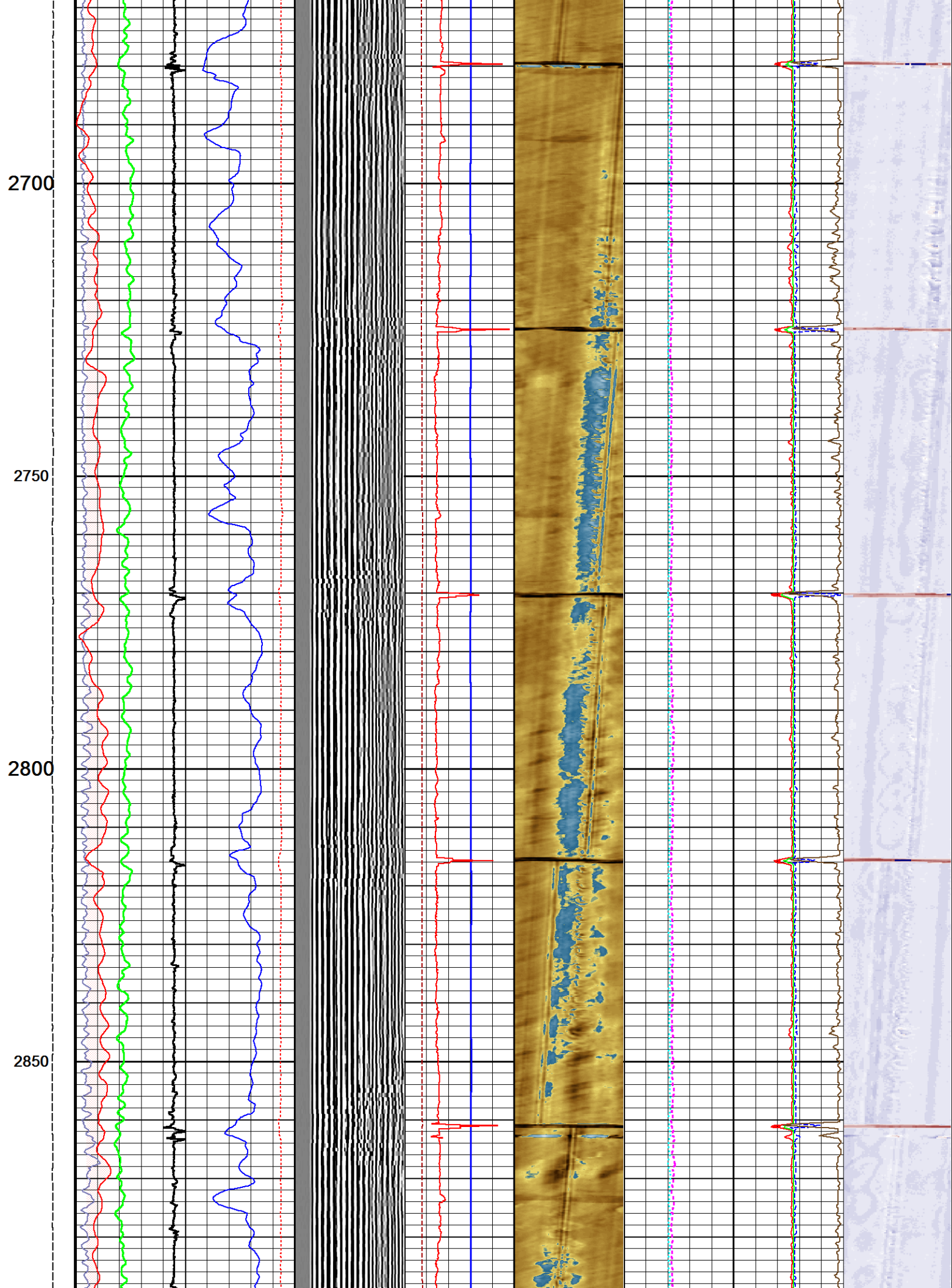


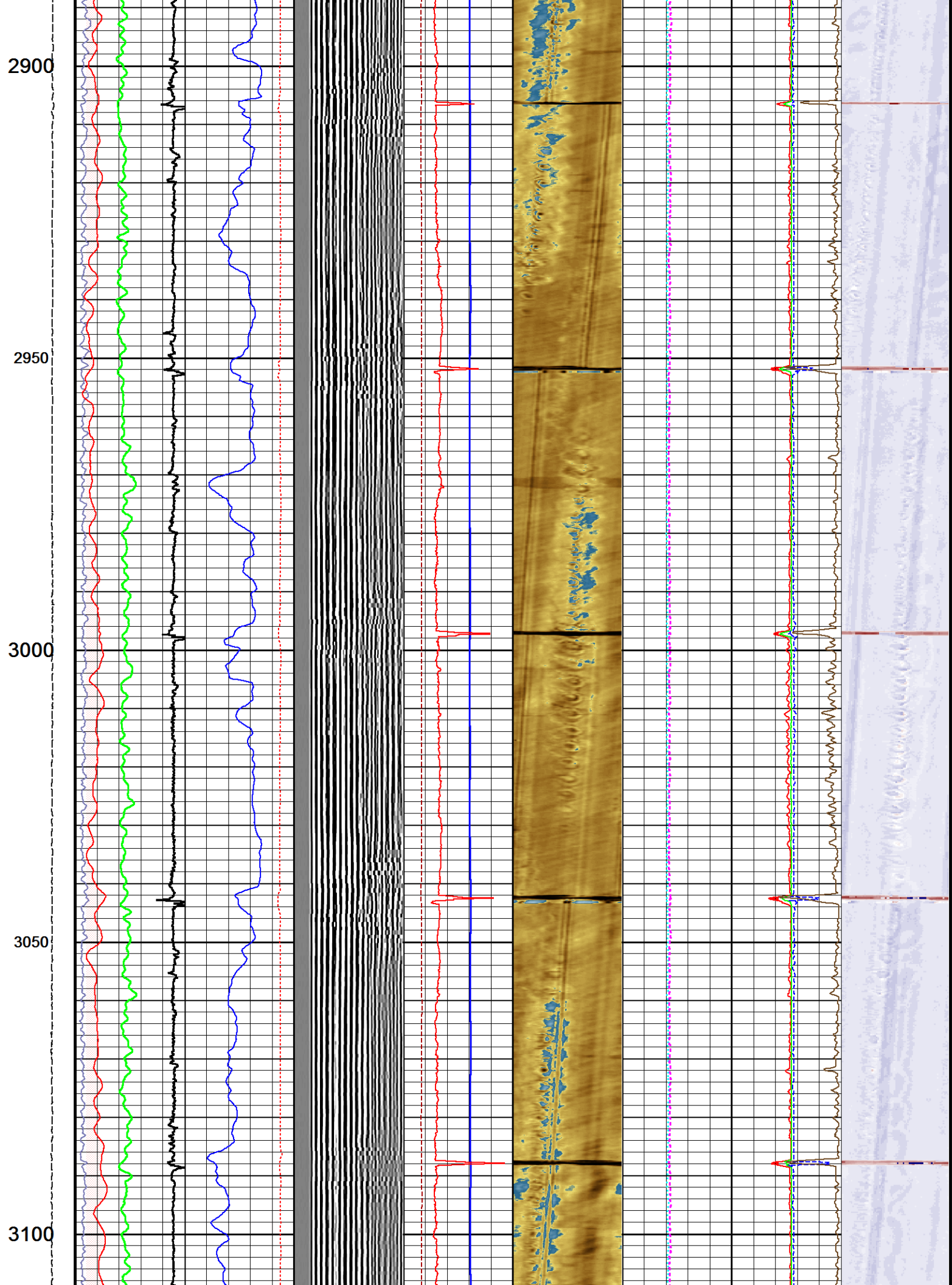


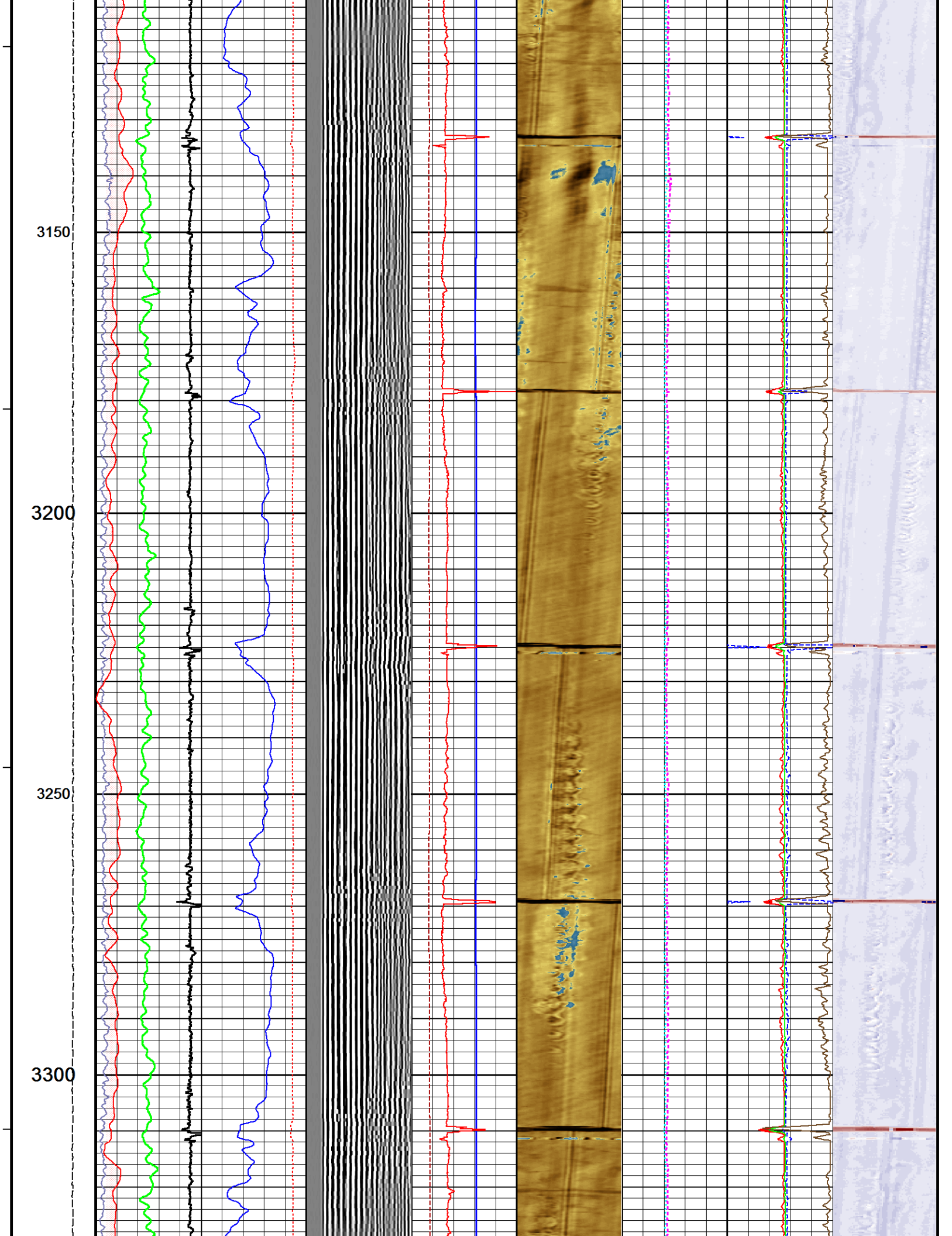










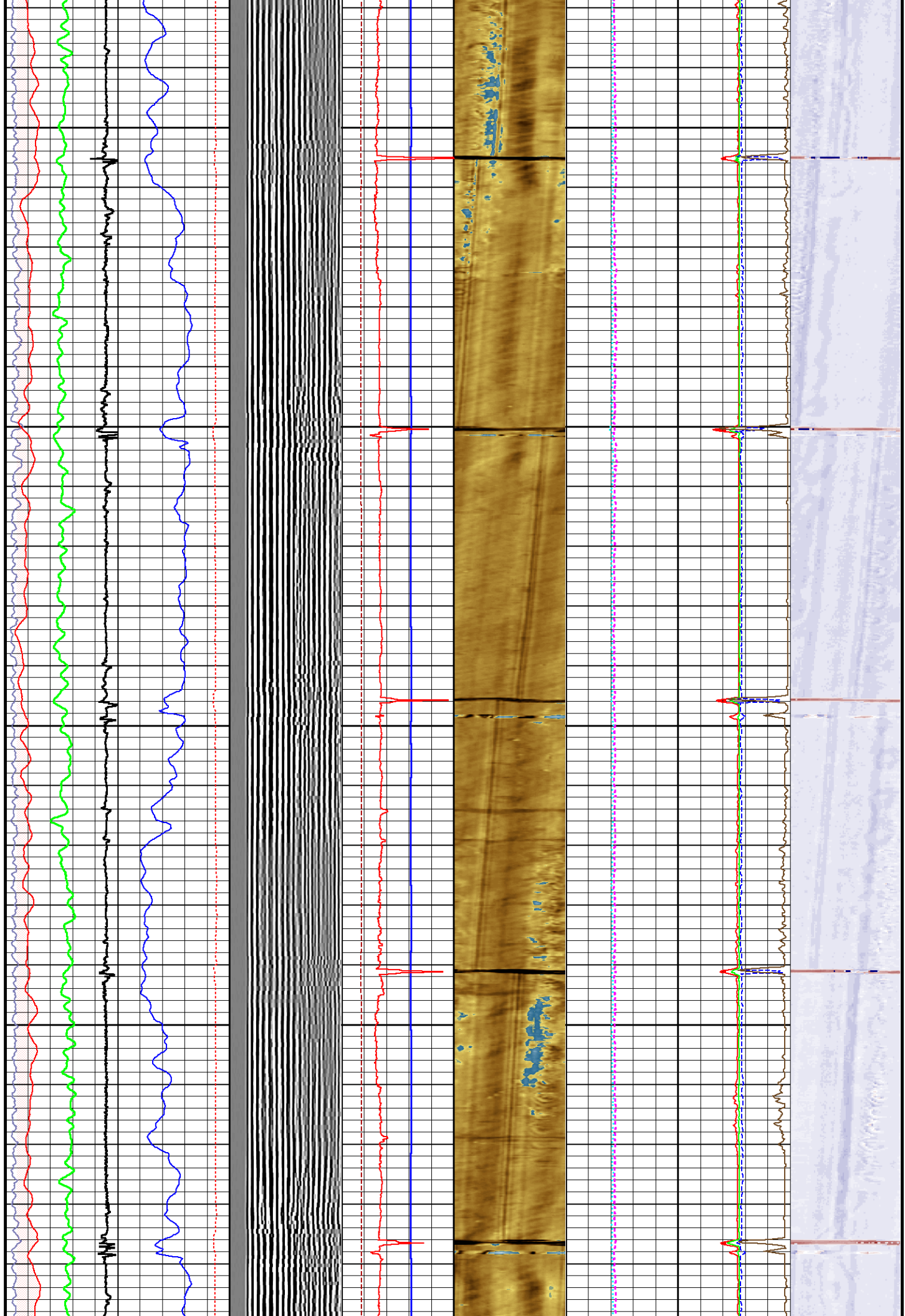


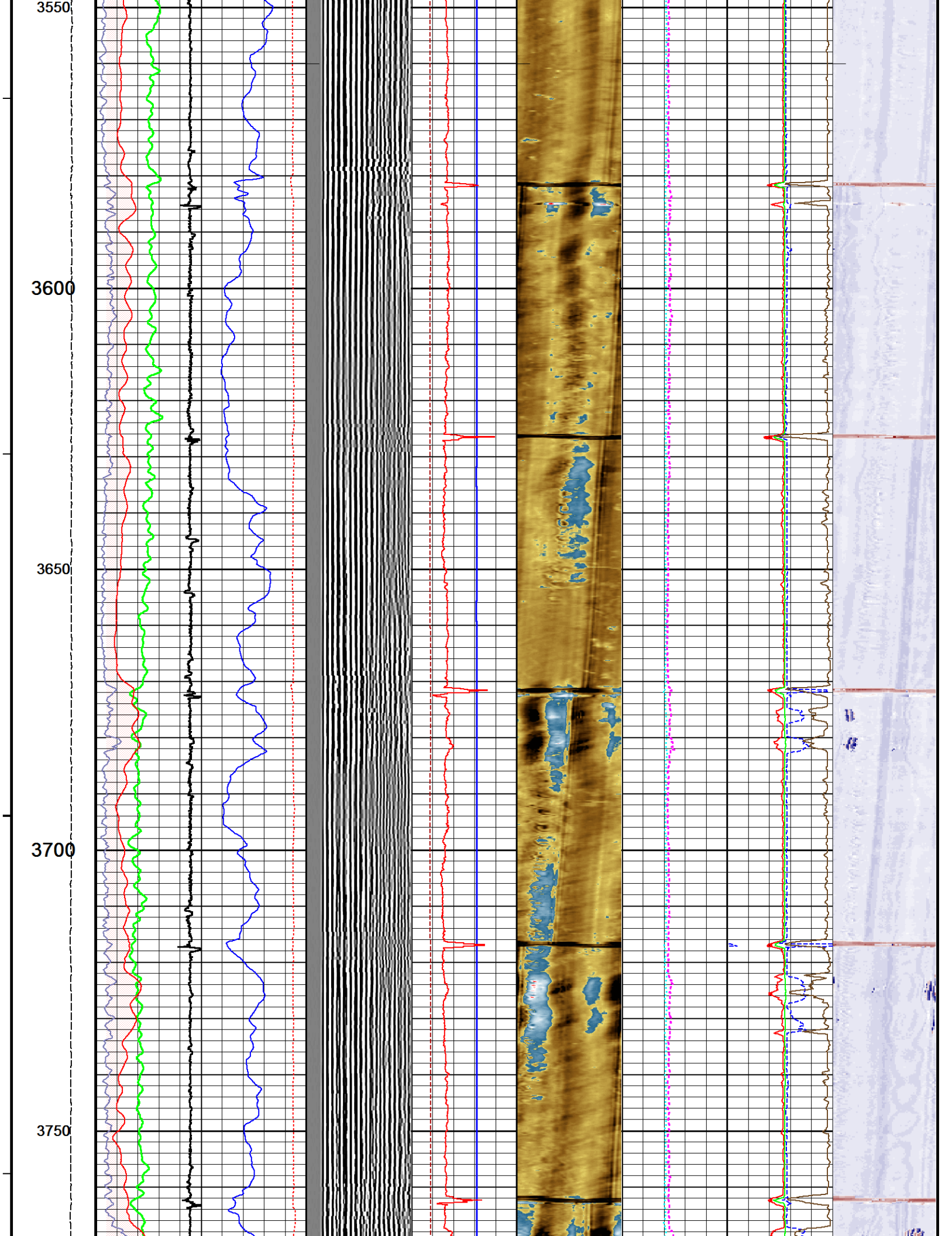
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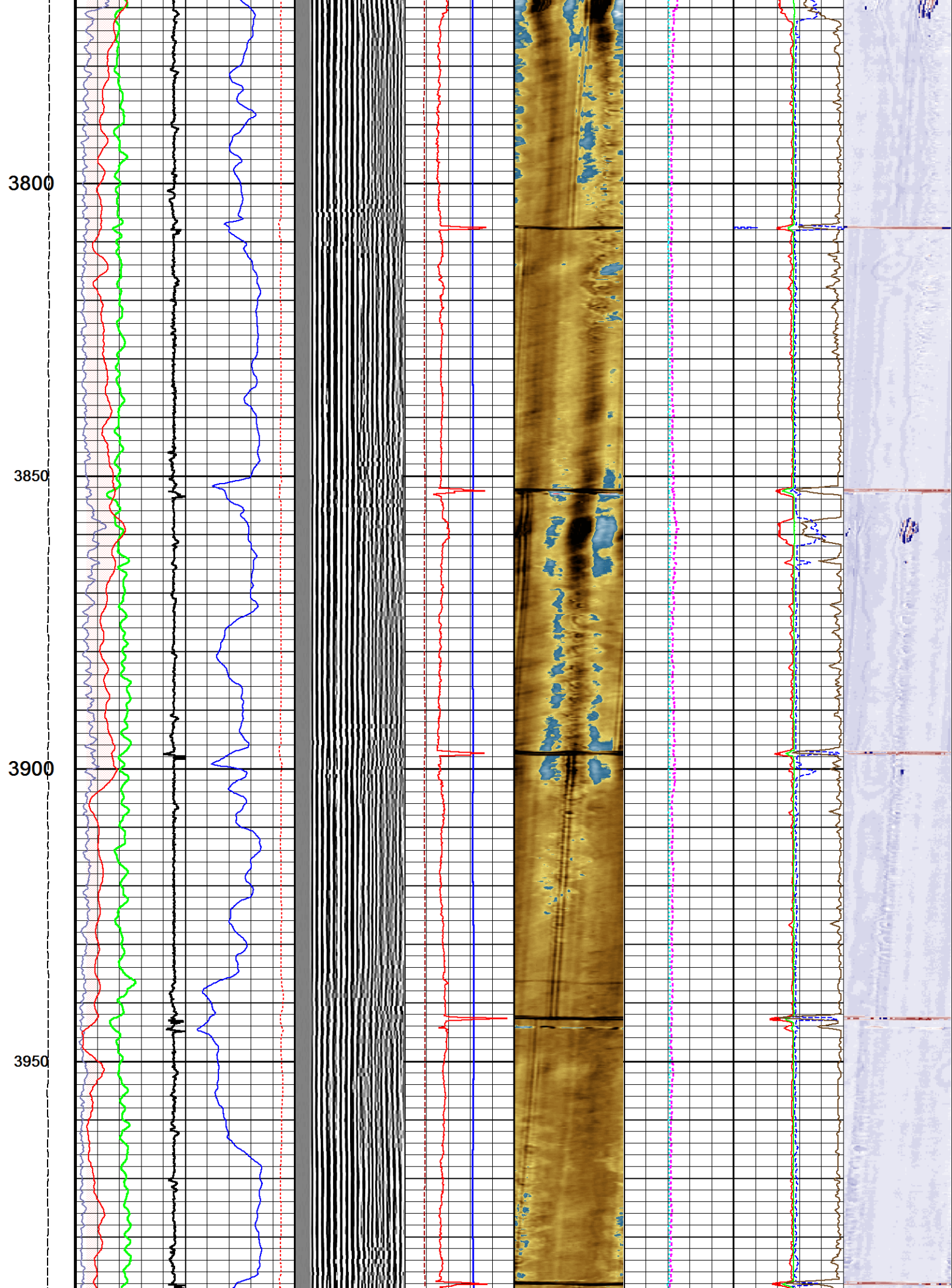
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3450

3500







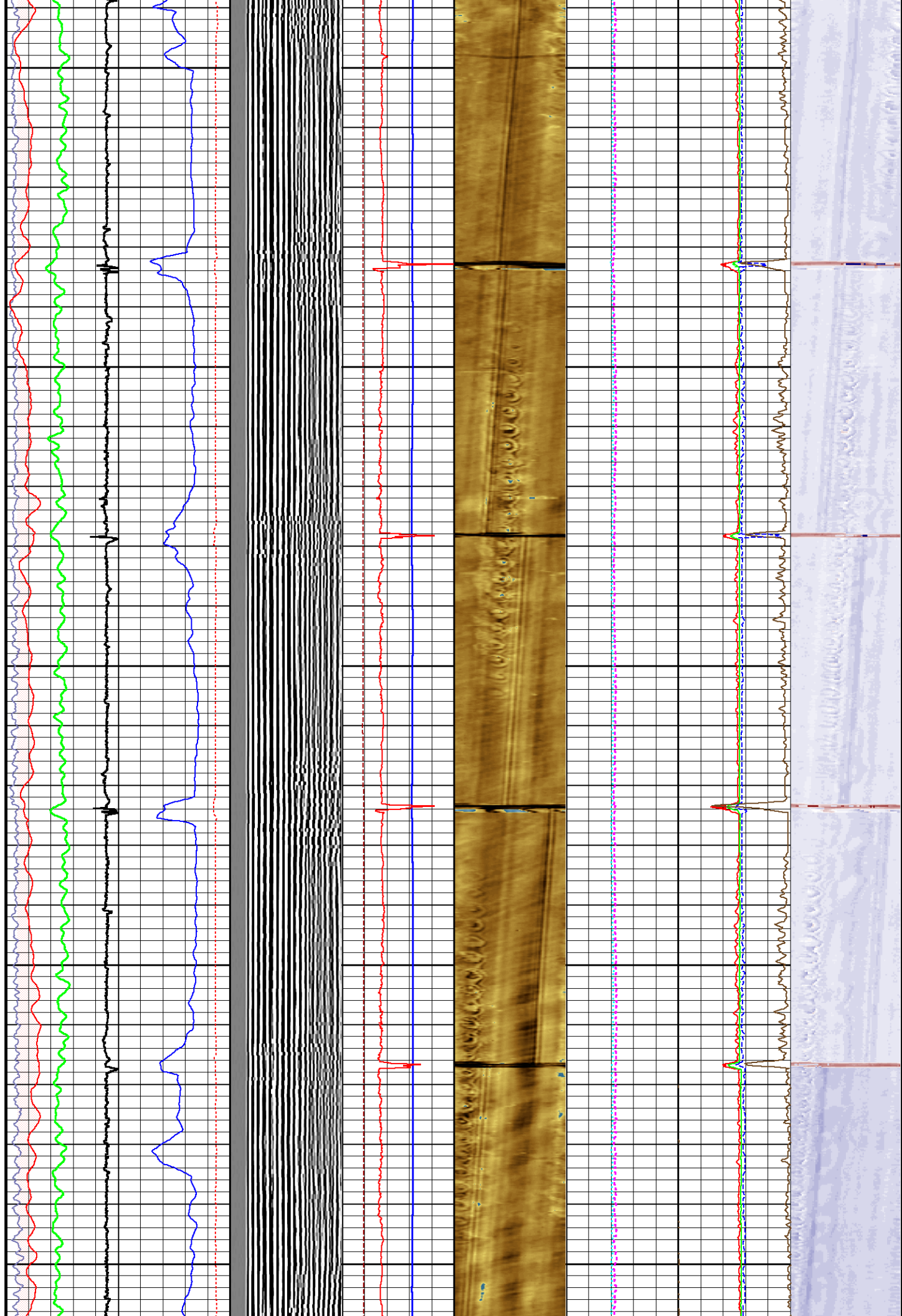
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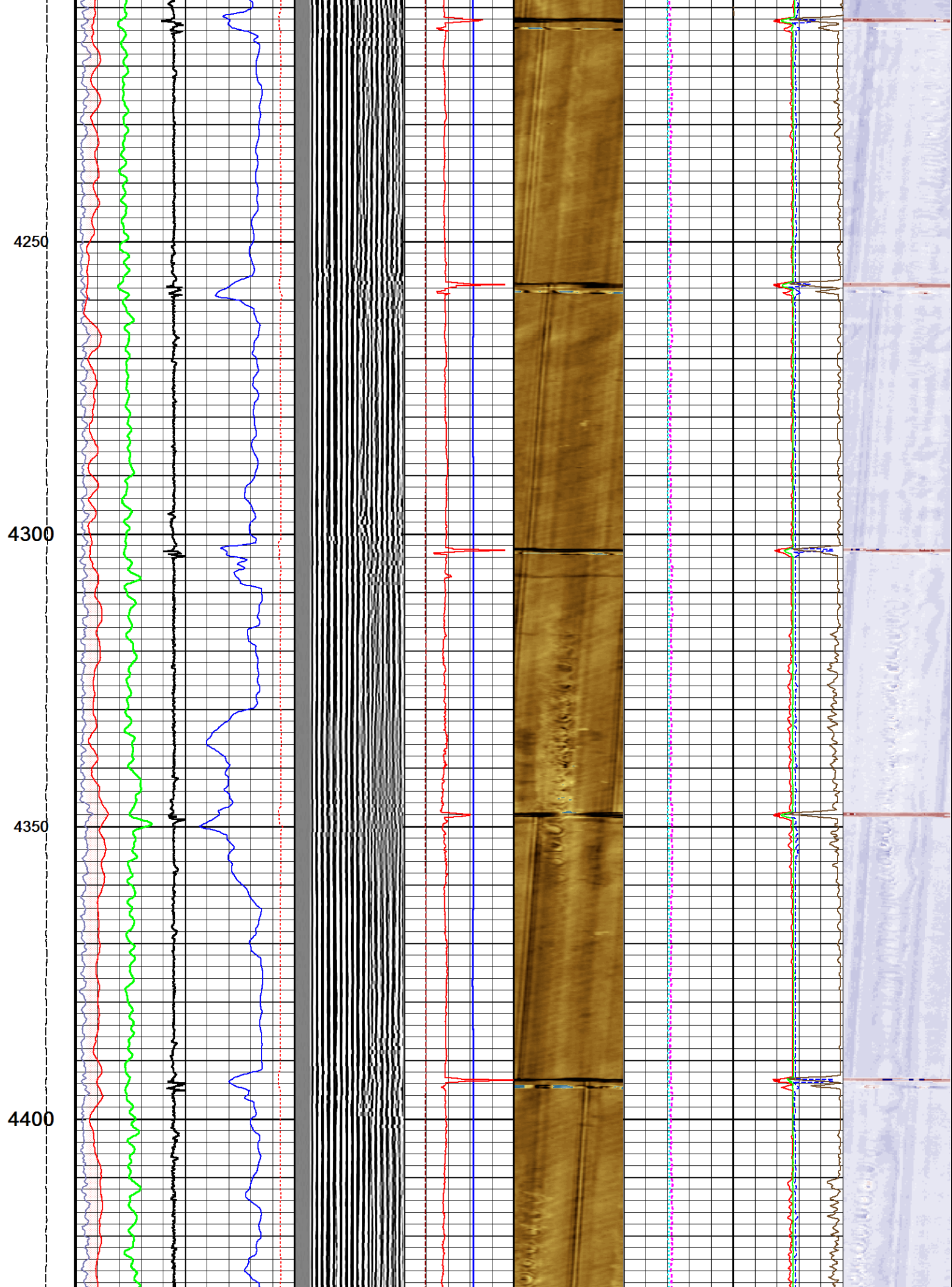
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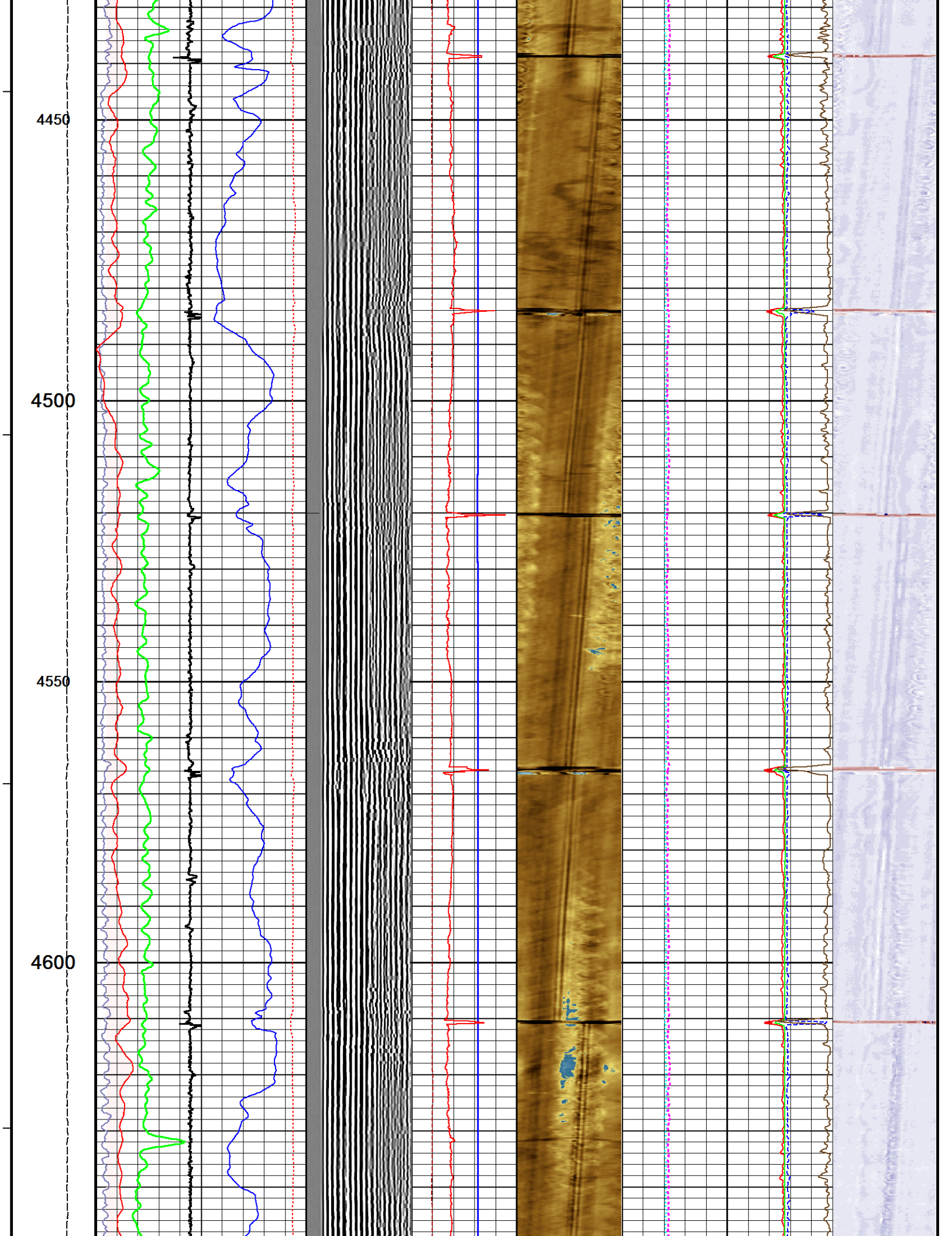
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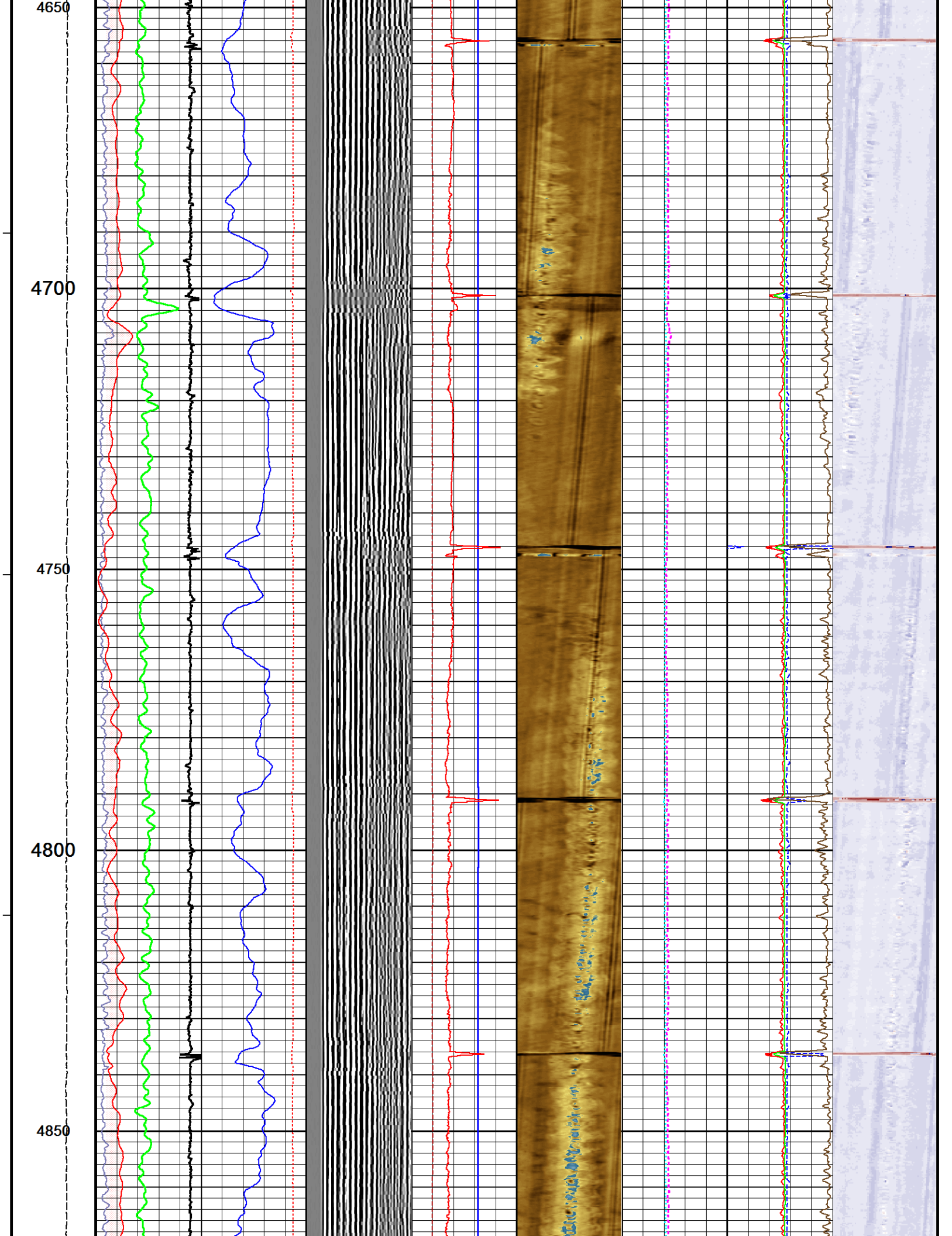
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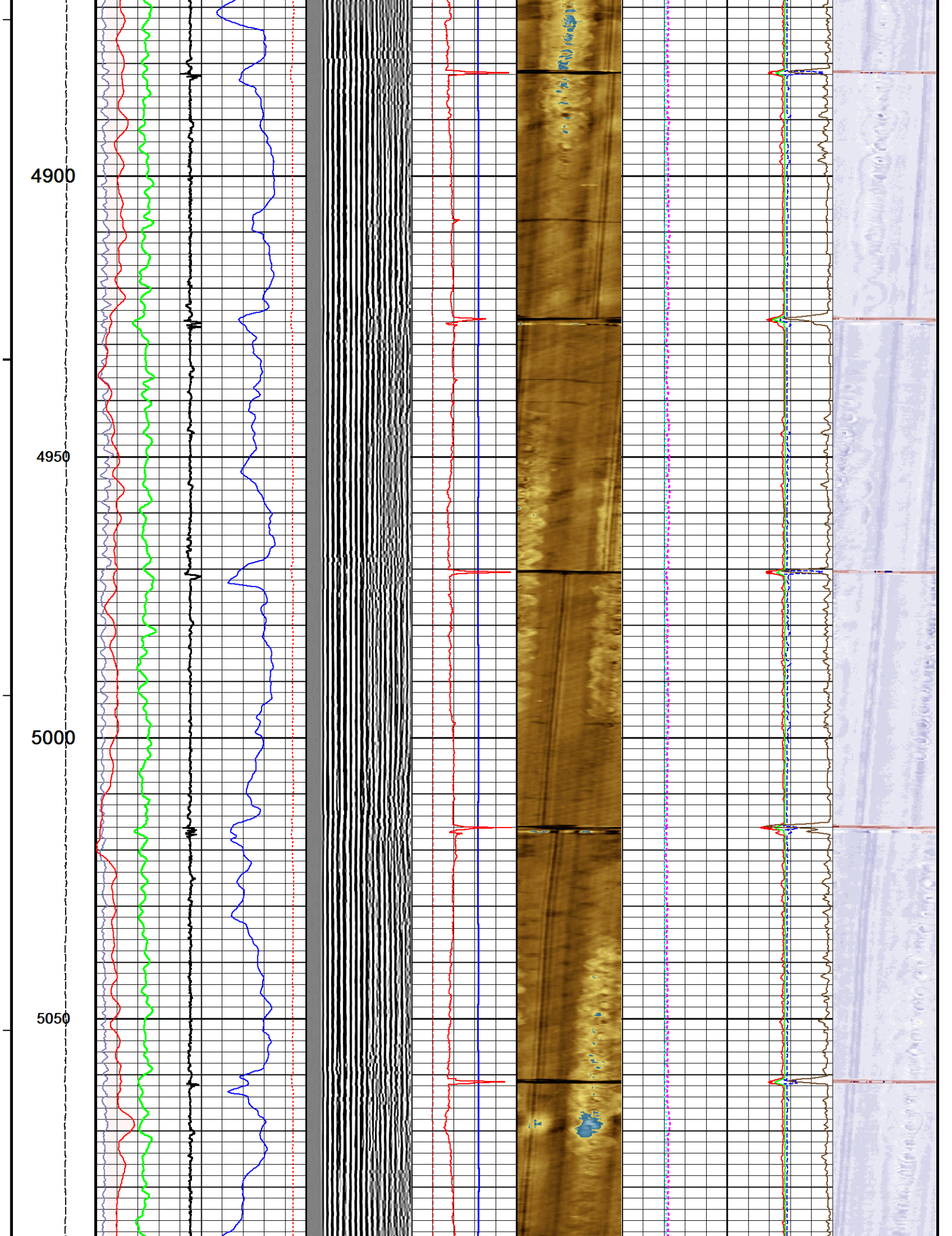
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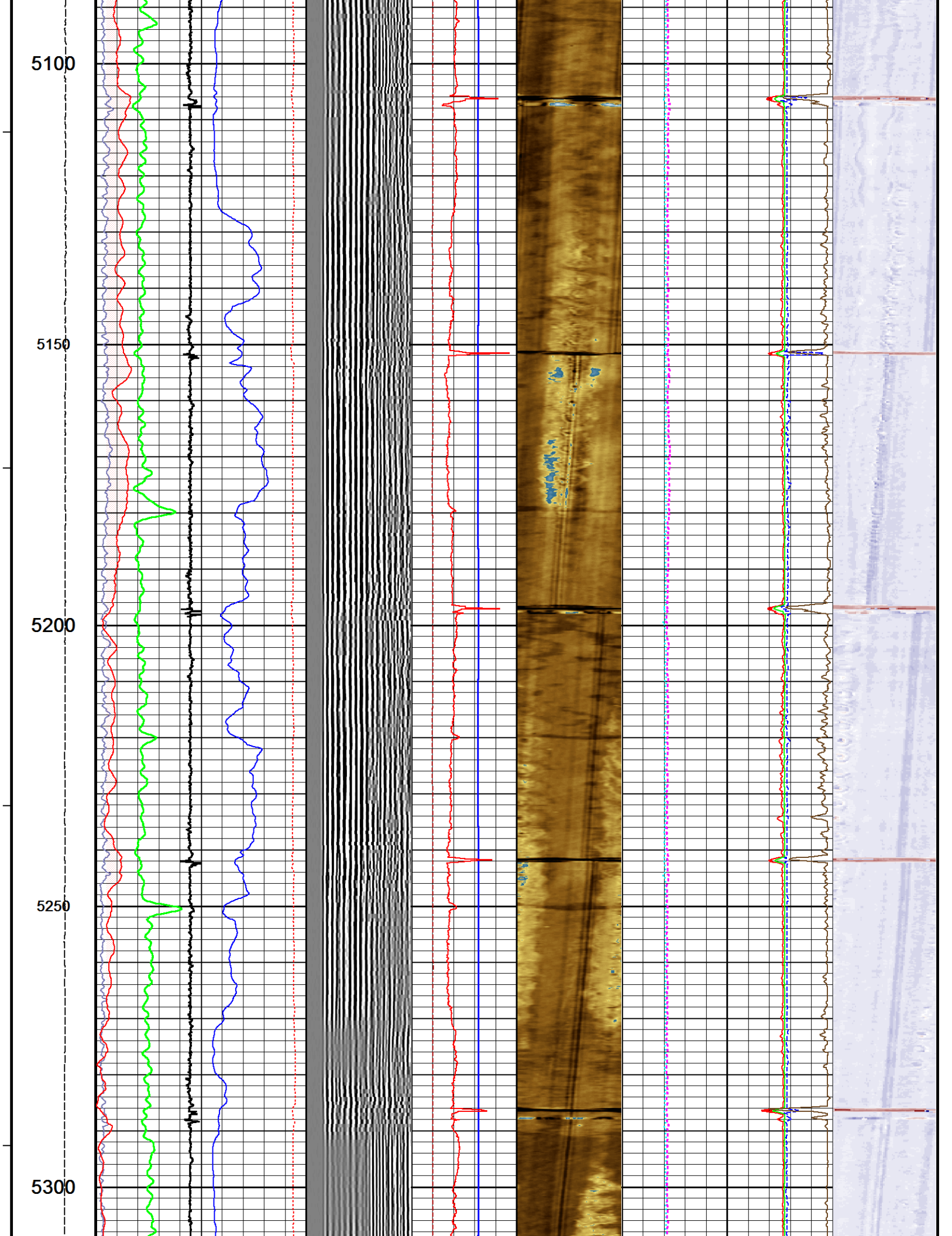










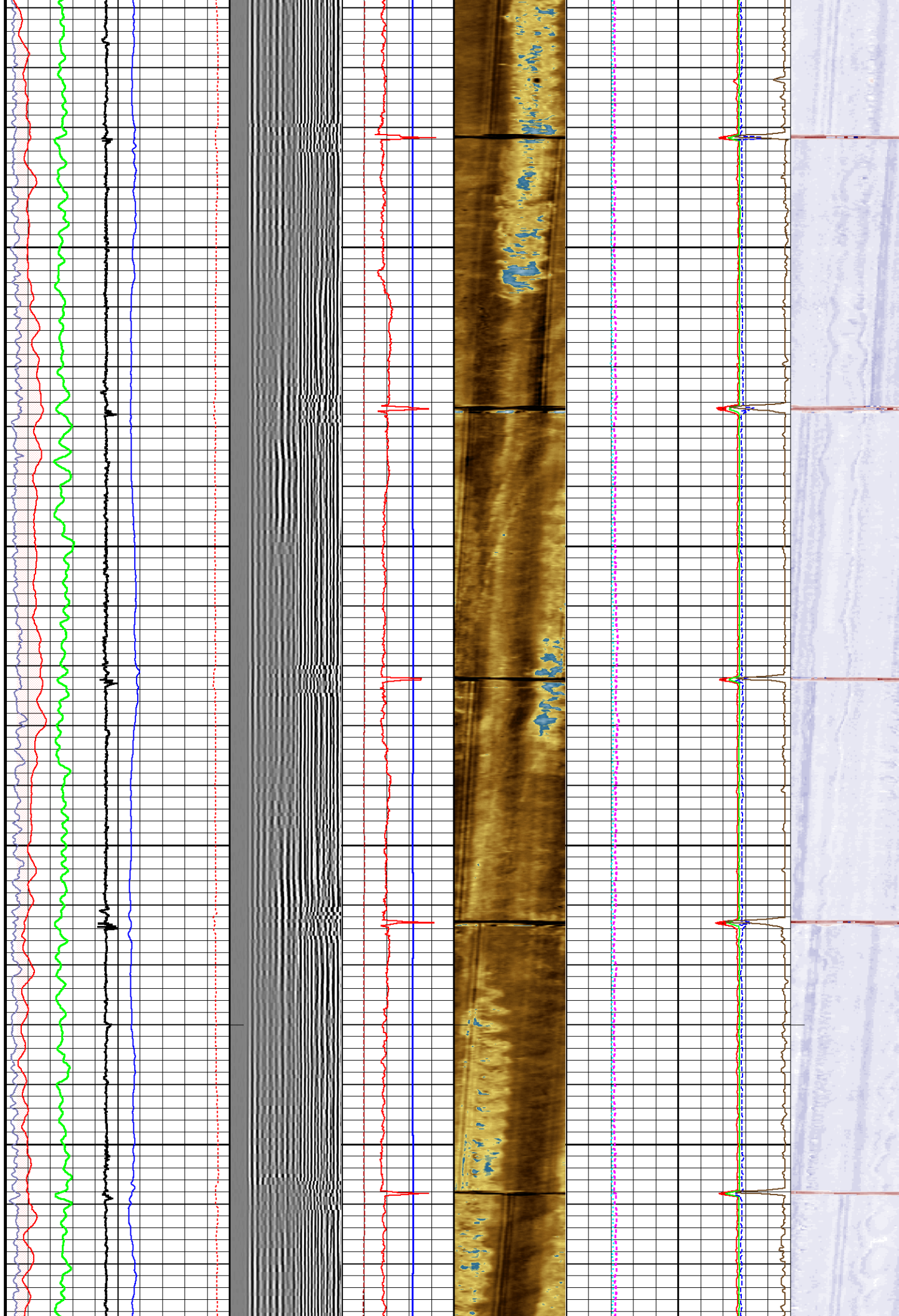


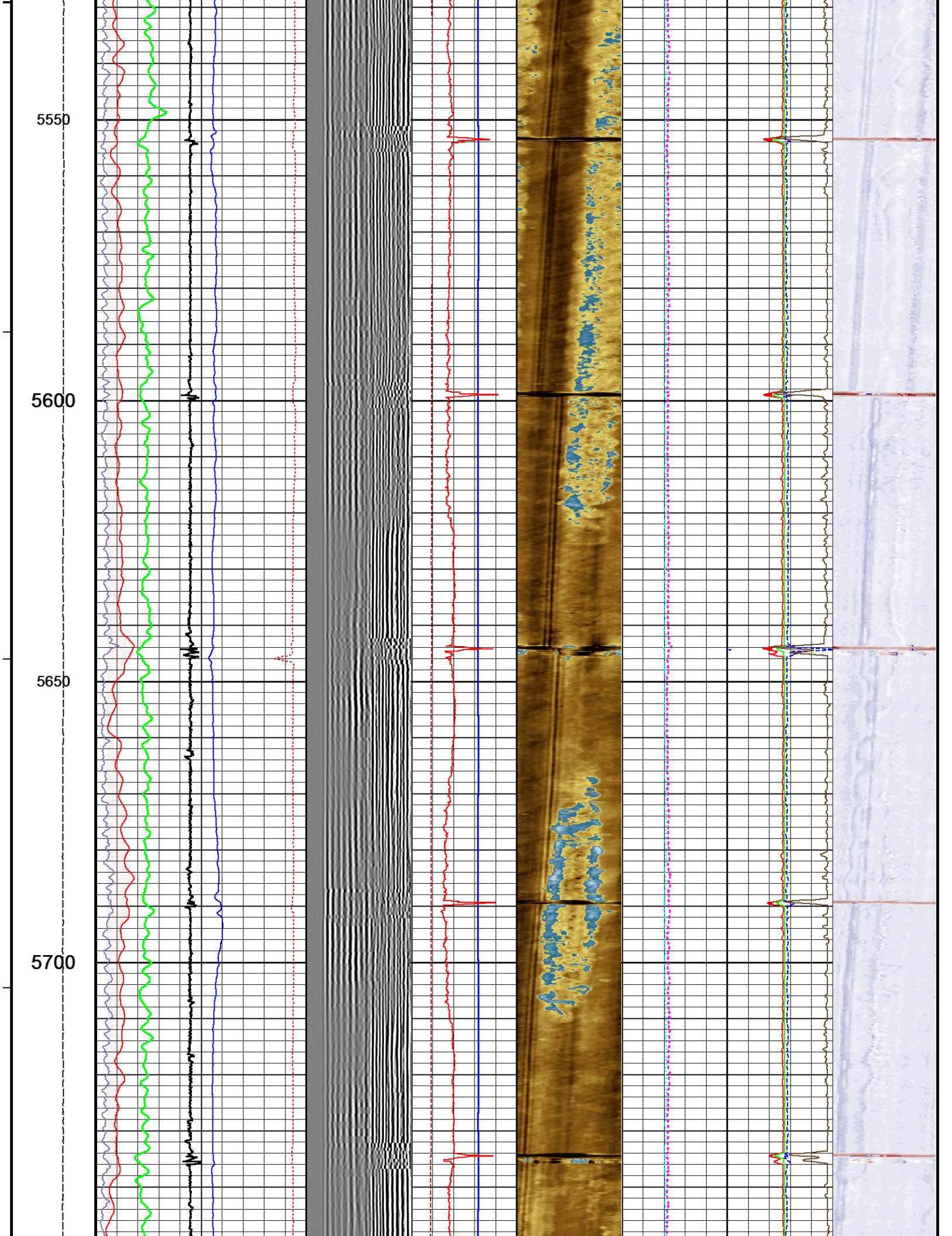
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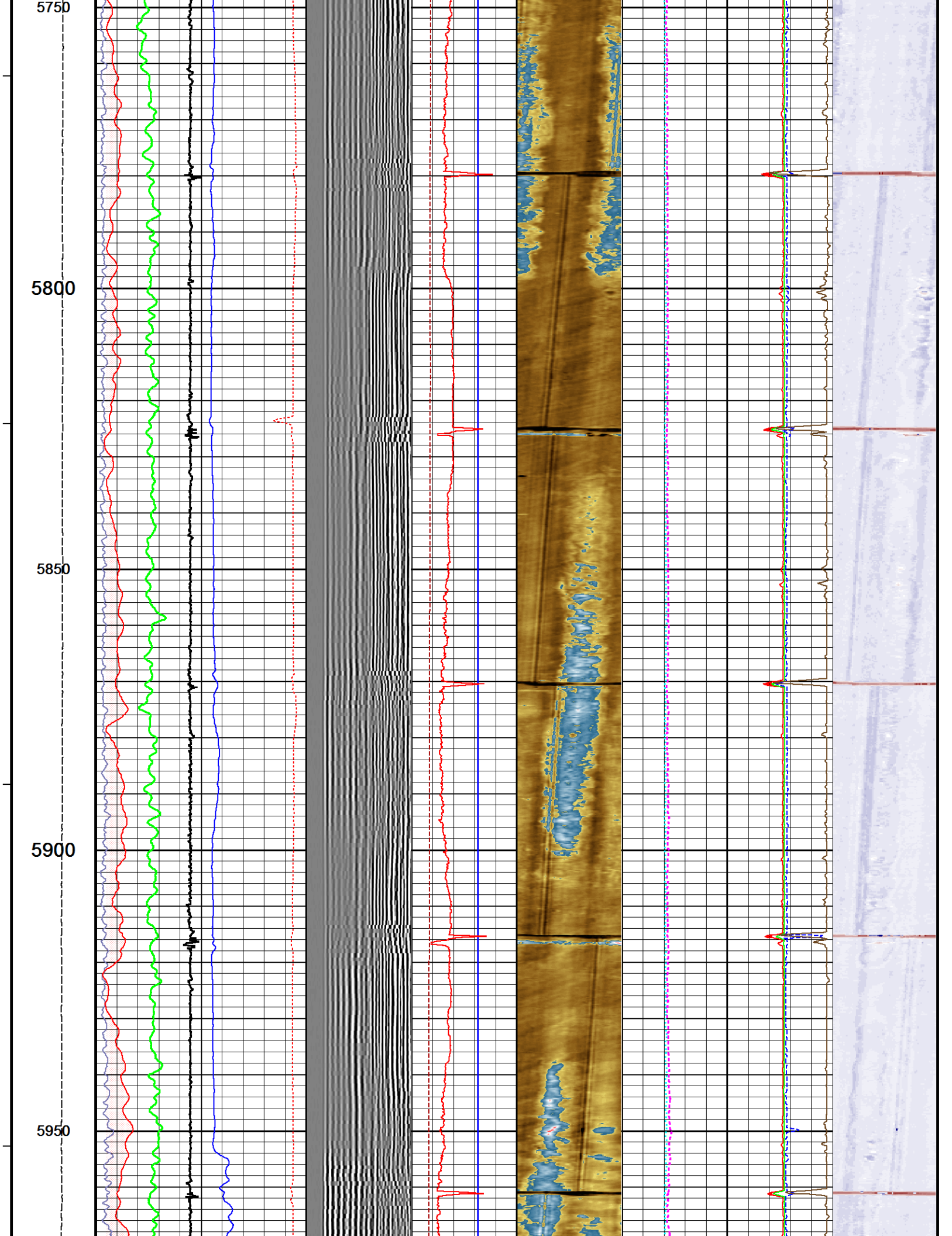
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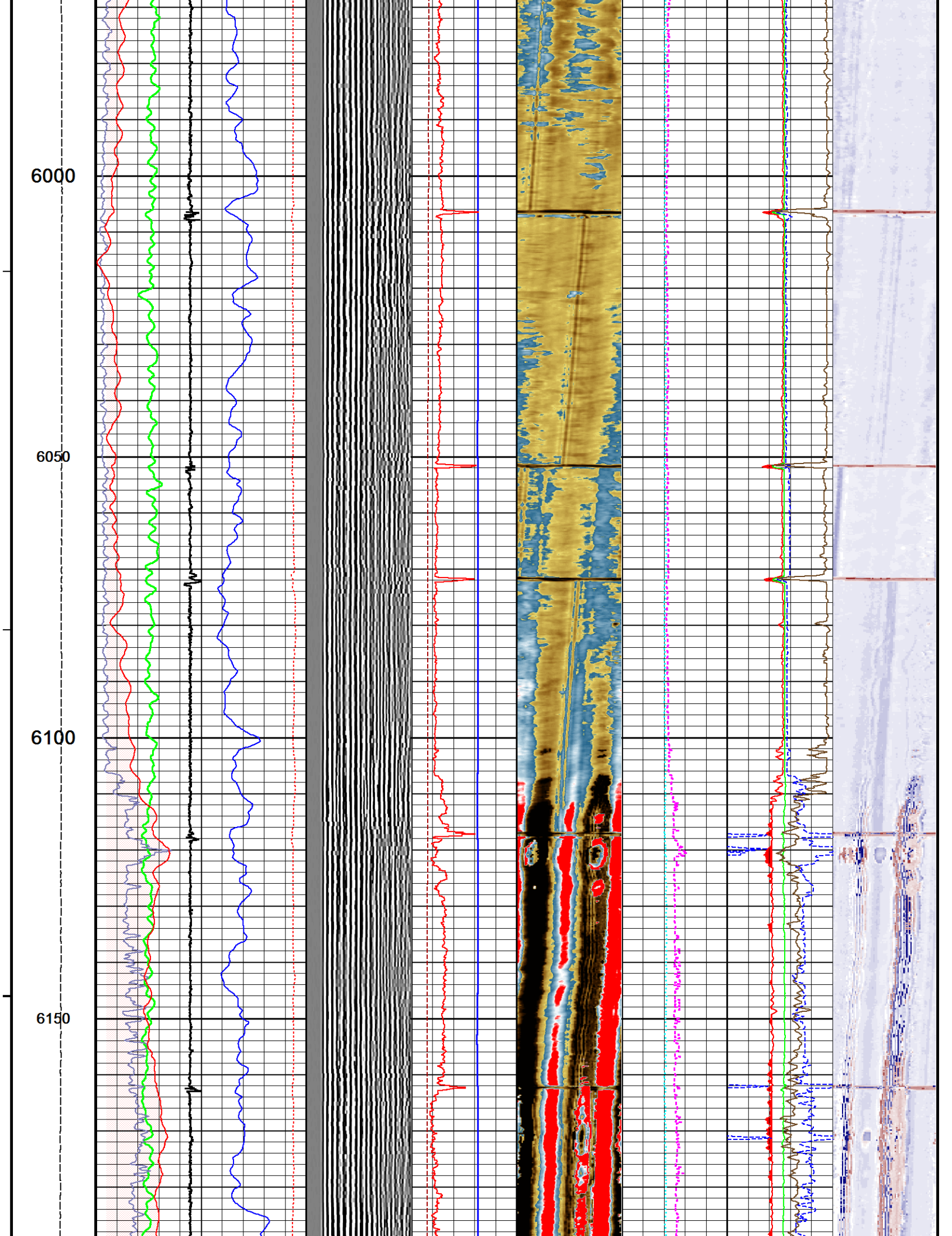
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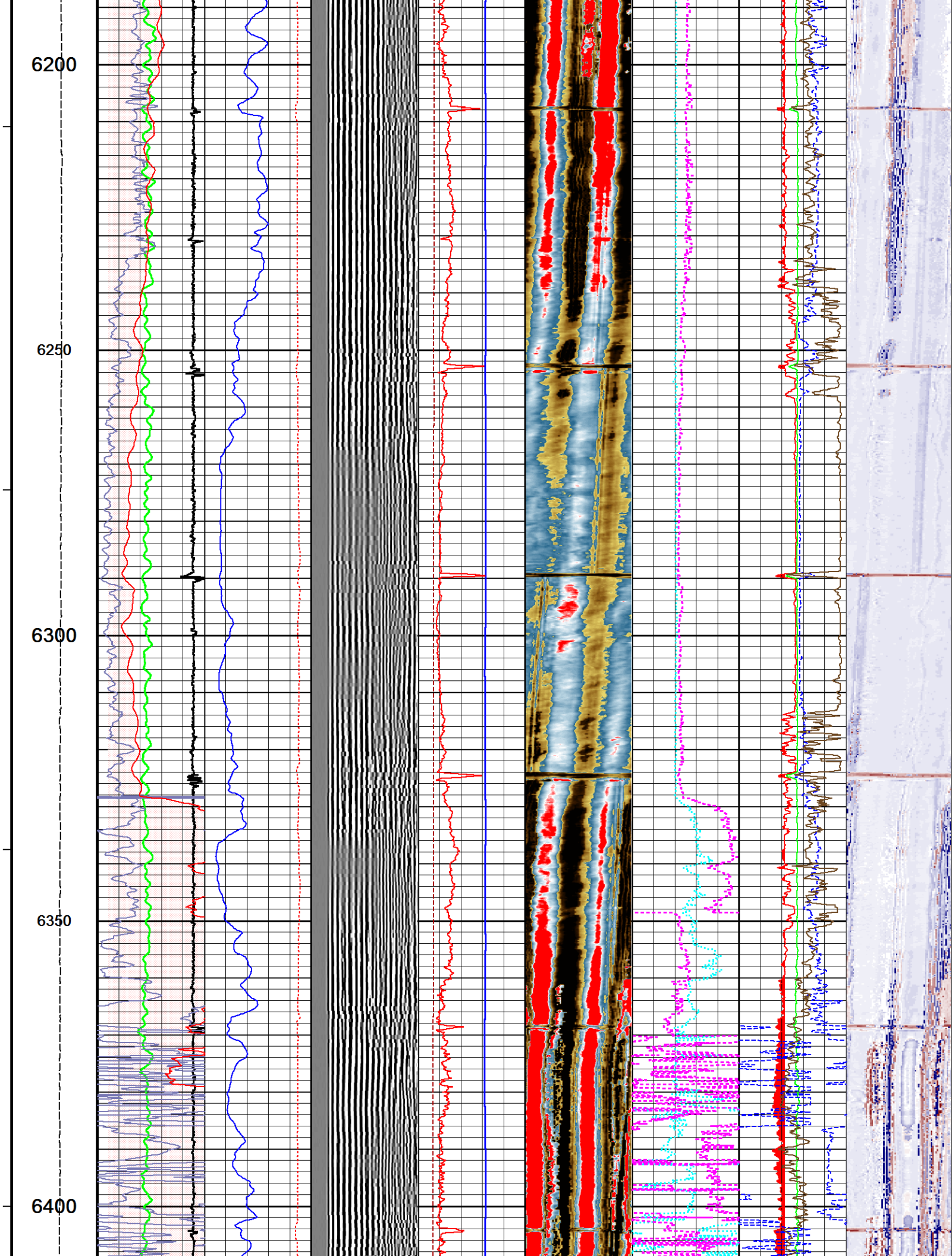
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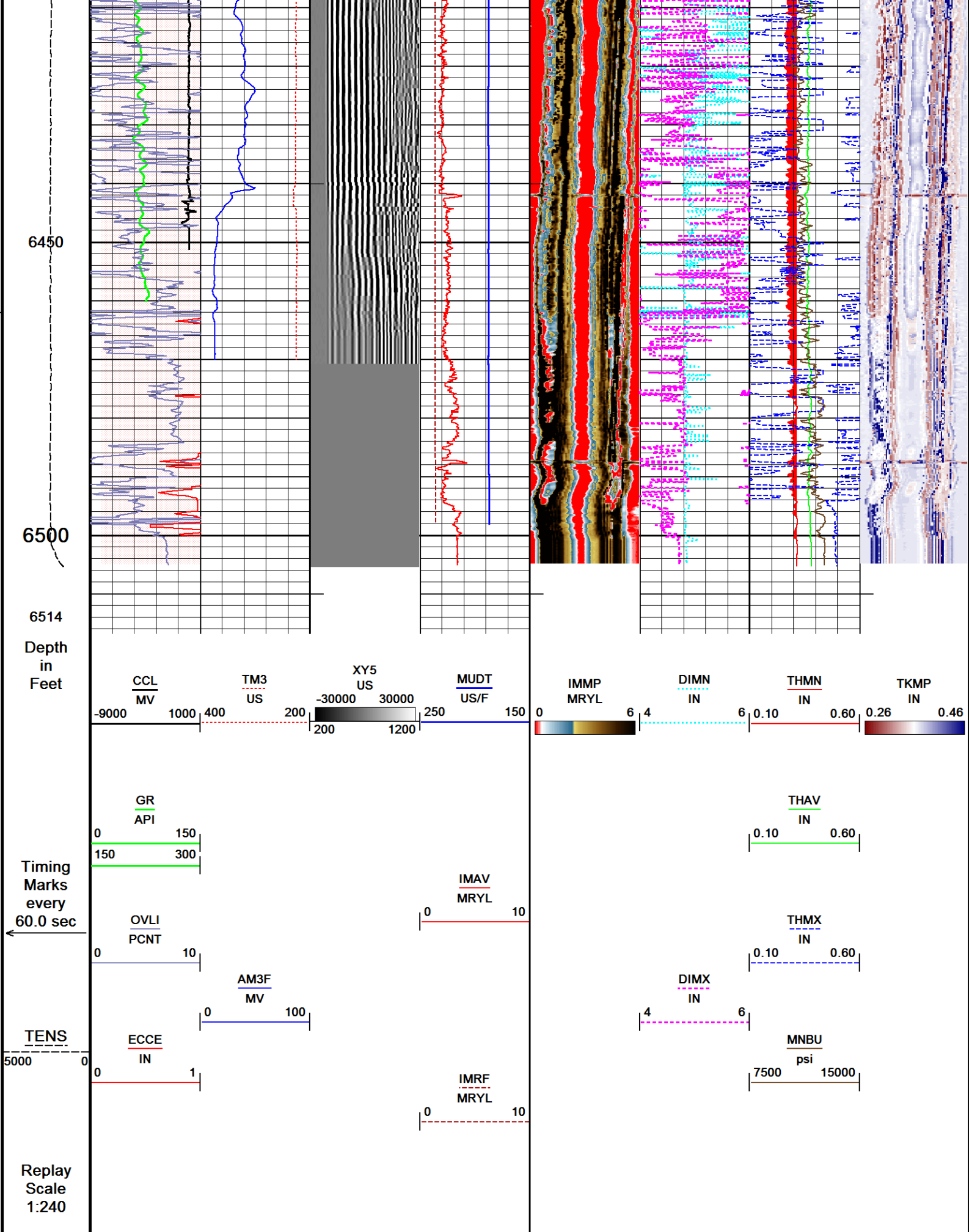












↑

MAIN PASS

↑

↓

REPEAT PASS

↓

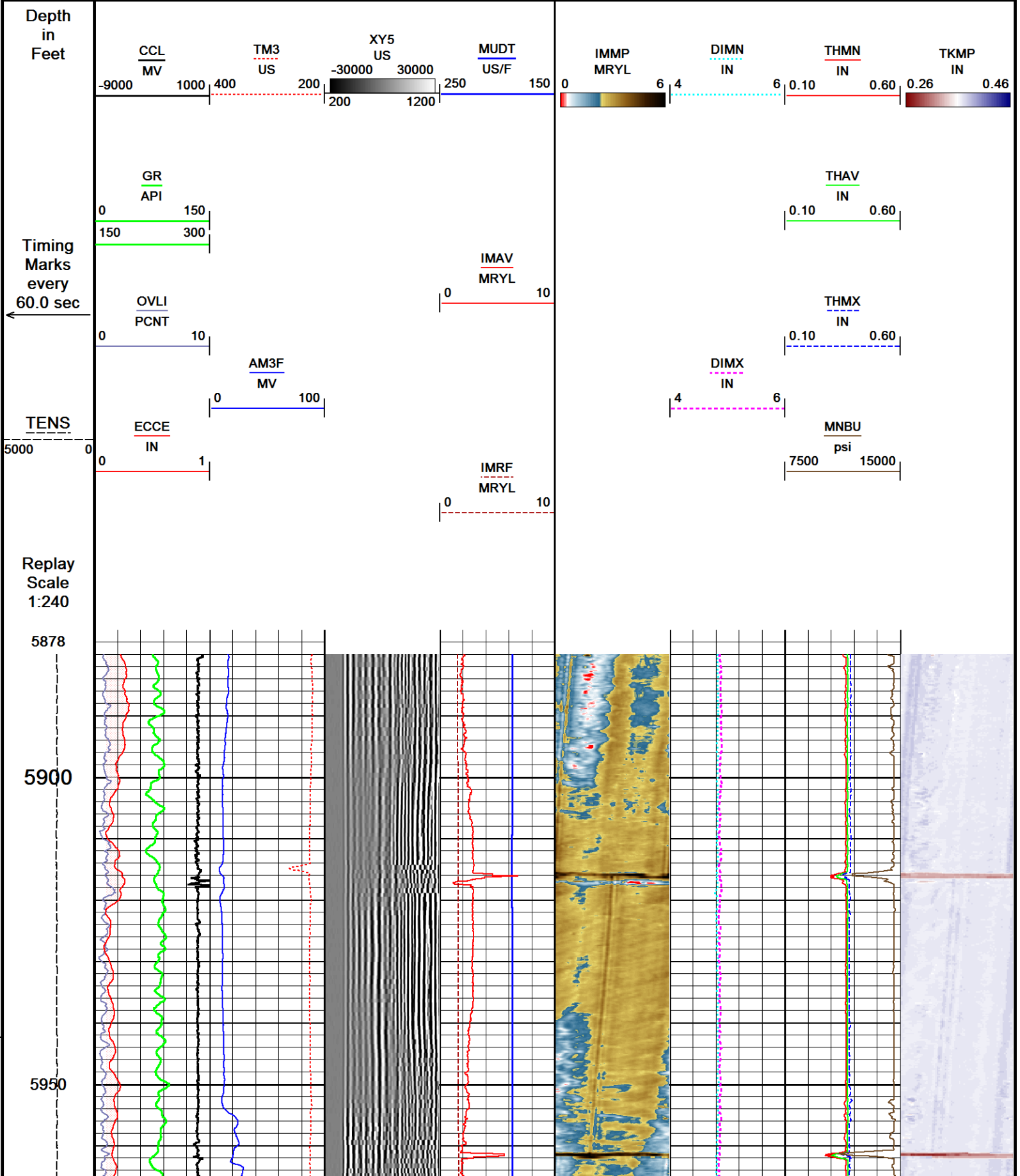
Depth Based Data - Maximum Sampling Increment 2.5cm

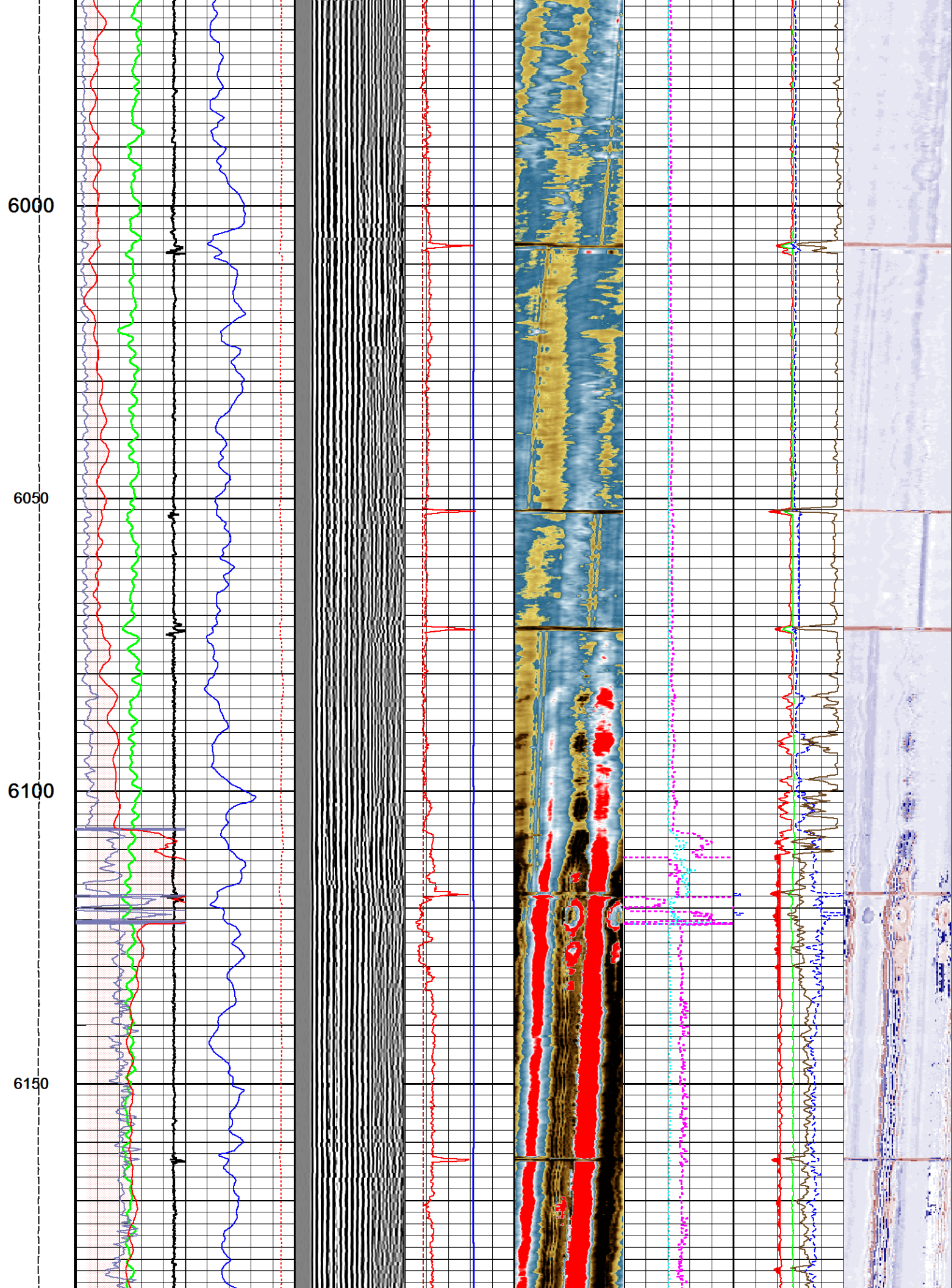
Plotted on 17-JUN-2019 21:04

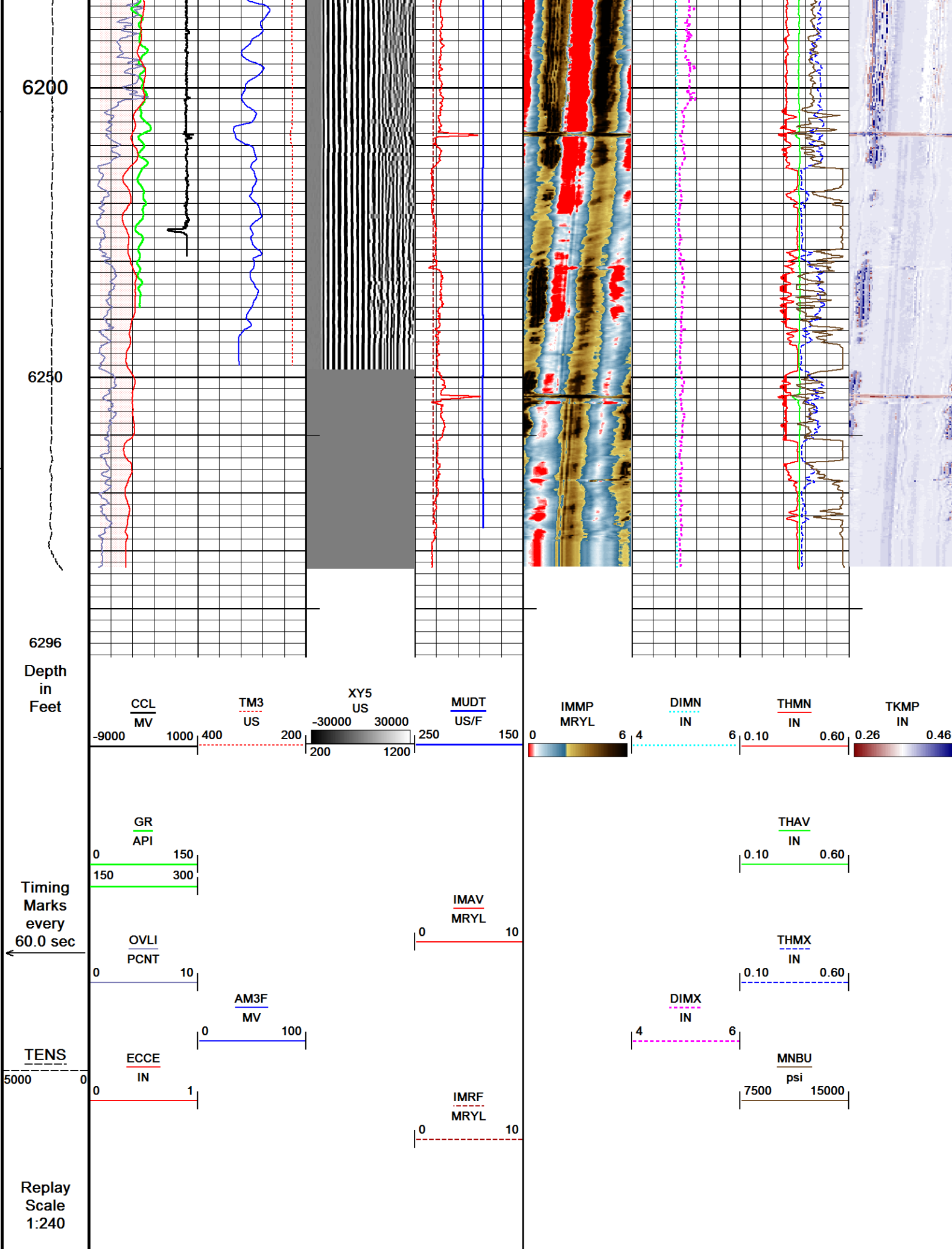
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Recorded on 17-JUN-2019 20:09

System Versions: Logged with 19.01.8879 Plotted with 19.01.8879







SHOP AND FIELD CALIBRATIONS

C:\WLS\Bonanza creek\ANTELOPE FEDERAL Y44-U41-20HNB\SPLICE.dta

UGR Field Survey Cal UGR-JD 108

Field calibration on 00-JAN-1988 00:00

Gamma Ray Field Survey Calibration

Tool Type: UGR-JD Serial No: 108
Calibrator No:

Background	Calibrator	Standard	Units
0.0	490.0	140.0	CPS

Delta Counts Per Sec: 490.0 CPS/API = 3.500

CBT Field Calibration CBT-AA 115

Field calibration on 17-JUN-2019 09:16

Cement Bond Tool Amplitude Field Calibration

Tool Type CBT-AA Serial No 115

Free Pipe Depth

Sensor	Description	Standard(mv)	Measured(mv)
AMP 3 FT	100 % Bond	2.00	1.55
	Free Pipe	72.00	461.00
AMP 5 FT	100 % Bond	0.20	1.06
	Free Pipe	48.00	504.00

CBT Constants CBT-AA 115

Last Edited on 17-JUN-2019 12:21

Min Ampl 100% Bond	2.00 MV
Max Ampl 0% Bond	72.00 MV
Cement Cmpr Strength	1500 PSI
Casing Size	5.50 IN
Casing Weight	17.0 LB/F
Casing Velocity	57.00 US/F
DT Fluid	204.0 US/F
Maximum Attenuation	12.00 DB/F
3' TT Correction	0.0 US
Cement Weight	10.00 LB/G

Ultrasonic Radial Scanner Before Cal USH-AB 125

Field calibration on 17-JUN-2019 09:22

Ultrasonic Radial Scanner Before Calibration

	Measured	Minimum	Maximum	
Free Pipe	-999.250	0.000	0.000	MRYL
Mud Impedance	1.500	0.000	0.000	MRYL

URS Constants USH-AB 125

Last Edited on 17-JUN-2019 12:21

*** 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	2.85
ZMud Cal Area Ratio	4.50

** 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	12726.00	5.50	17.00	2.64	1.50	0.30	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	1.50 MRYL
Z_mud Outside	1.90 MRYL

Gas Impedance Cutoff	0.38 MRYL
Fluid Impedance Cutoff	2.30 MRYL
Contam Impedance Cutoff	2.70 MRYL

Relative Bearing Rotate

OFF

RB Offset Angle

0.00 DEG

Cement Density

14.00 LB/G

DOWNHOLE EQUIPMENT

C:\WLS\Bonanza creek\ANTELOPE FEDERAL Y44-U41-20HNB\SPLICE.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 120 LG: 1.05 ft WT: 15.4 lb OD: 3.386 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 141 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

Gamma Ray
UGR-JD 108 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

55 pin Roller Centralizer
CEN-XA 185 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

54.24 ft CCL - Collar Locator

46.15 ft GR - Gamma Ray

35.79 ft AM3F - Amplitude 3FT

35.79 ft TM3 - Travel Time 3FT

34.79 ft XY5 - XY Signature 5FT

55 pin Roller Centralizer

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

Flexible Joint, 55 Pin
FTP-AA 159 LG: 3.44 ft WT: 77.2 lb OD: 3.346 in

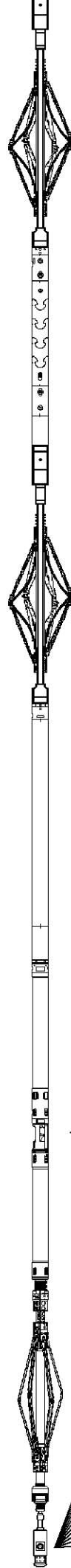
55 pin Roller Centralizer
CEN-XA 218 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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

URS Sonde Section
USS-AB 189 LG: 9.65 ft WT: 167.6 lb OD: 3.386 in

Ultrasonic Radial Scanner Head A
USH-AB 125 LG: 1.03 ft WT: 13.2 lb OD: 3.386 in

Total Length: 57.16 ft Weight: 941.4 lb



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

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

0.00 ft TENS - Tension
Tool Zero (0.00ft from bottom)

All measurements relative to tool zero.

COMPANY	BONANZA CREEK ENERGY
WELL	ANTELOPE FEDERAL Y44-U41-20 HNB
FIELD	WATTENBERA
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA/COLORADO

Elevation Kelly Bushing	4674	feet	Bottom Log Interval	6500.00	feet
Elevation Drill Floor	4674	feet	Depth Driller	12736.00	feet
Elevation Ground Level	4657	feet	Depth Logger	6500.00	feet



SECUREVIEW
ULTRAVIEW / BONDVIEW

Weatherford®