				<div>SECUREVIEW</div> <div>ULTRAVIEW / BONDVIEW</div> <div>LOG</div>			
COMPANY				BONANZA CREEK ENERGY			
WELL				ANTELOPE 034-19-18 MRLNB			
FIELD				WATTENBERG			
PROVINCE/COUNTY				WELD			
COUNTRY/STATE				UNITED STATES / COLORADO			
LOCATION				225' FSL & 1268' FEL			
SEC 19	TWP 5N	RGE 62W	Other Services CALVIEW				
Latitude		Longitude					
API Number		05-123-48256					
Permanent Datum GL, Elevation 4658 feet				Elevations:		feet	
Log Measured From KB, 17.00 feet above Permanent Datum				KB		4675.00	
Drilling Measured From KB				DF			
				GL		4658.00	
Date	21-MAY-2019			PERFORATION RECORD			
Run Number	ONE			Shot	Number	Depth From	Depth To
Service Order	7145-245644939			Density	of Shots	feet	feet
Type Log	URS / CBT						
Depth Driller							
Depth Logger	6300.00						
Top Log Interval	0.00						
Bottom Log Interval	6300.00						
Hole Fluid Type	WATER BASED						
Hole Fluid Level	55.00						
Restriction ID	4.653						
Max Recorded Temp	200.00			Gun Type			
Well Head Pressure	0.00			Gun Size			
Well Head Equipment	NONE			CASING / TUBING RECORD			
Time Well Ready	ON ARRIVAL			Size	Weight	Depth From	Depth To
Time Logger Bottom	14:30			inches	pounds/ft	feet	feet
Unit	14166						
Equipment Name	WSS-E						
Base	CASPER						
Recorded By	K. HUSETH						
Witnessed By	K. DODGE						

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	J-55		9.625	0.00	1616.00	36.00
PRODUCTION	P-110		5.500	0.00	11811.00	20.00

REMARKS
SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO RIG KB @ 17 FT ABOVE GROUND LEVEL
100% STANDARD FREE PIPE AMPLITUDE IN 5.5 INCH CASING IS 72 mV
ESTIMATED TOP OF CEMENT AT 1306 FT

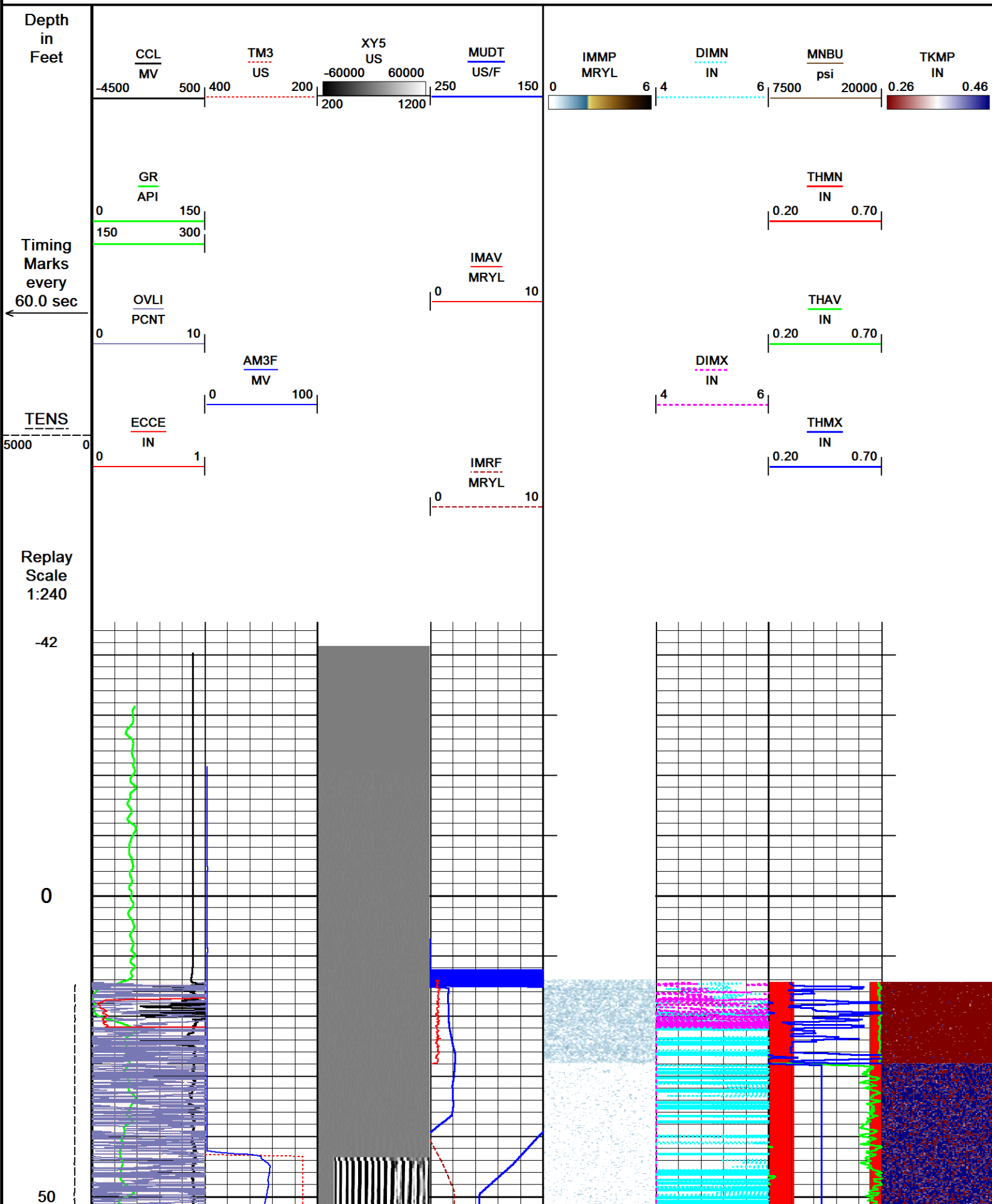
<p>In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.</p>
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Plotted on 21-MAY-2019 19:32

Recorded on 21-MAY-2019 19:06

System Versions: Plotted with 18.05.7089

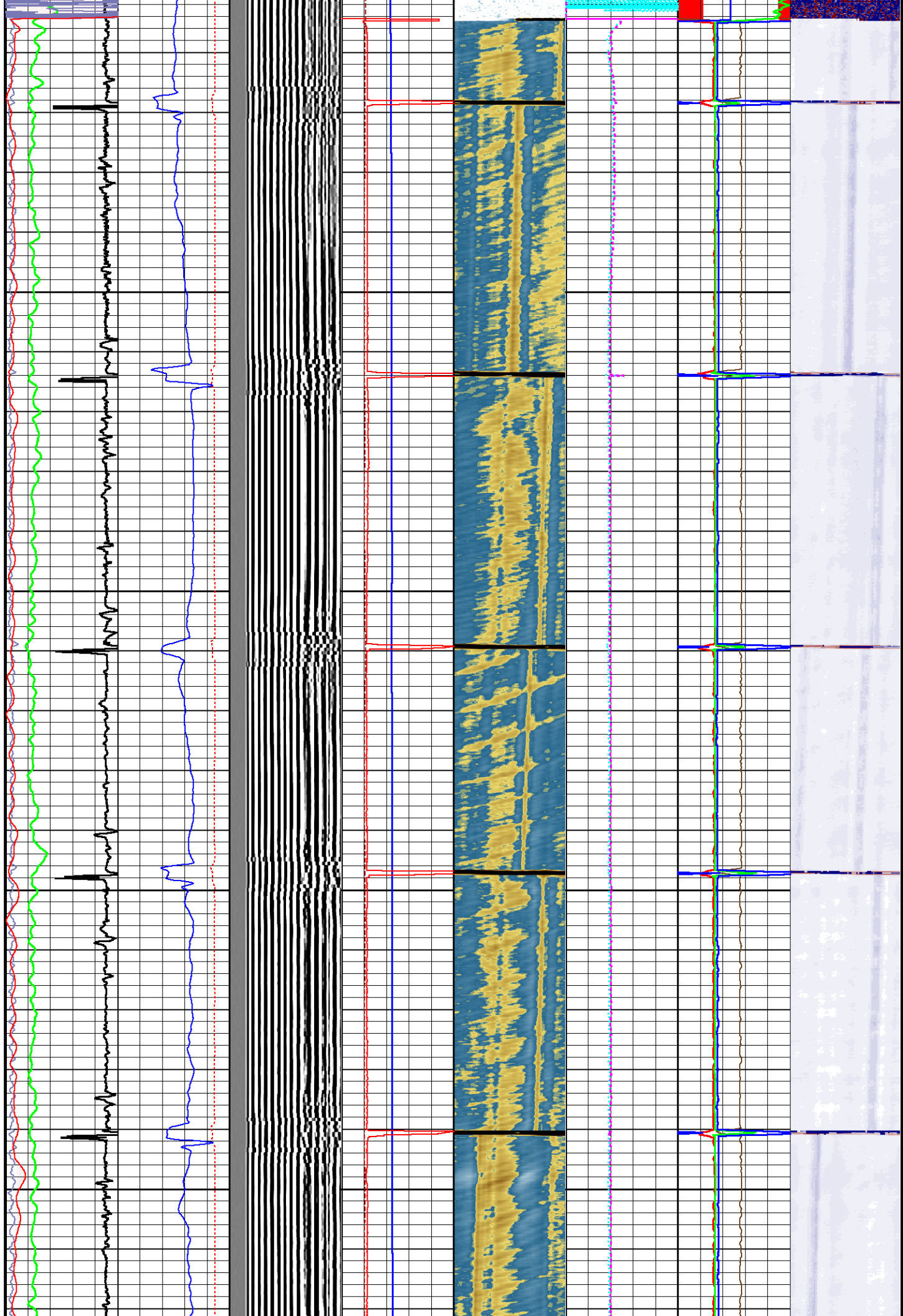


100

150

200

250

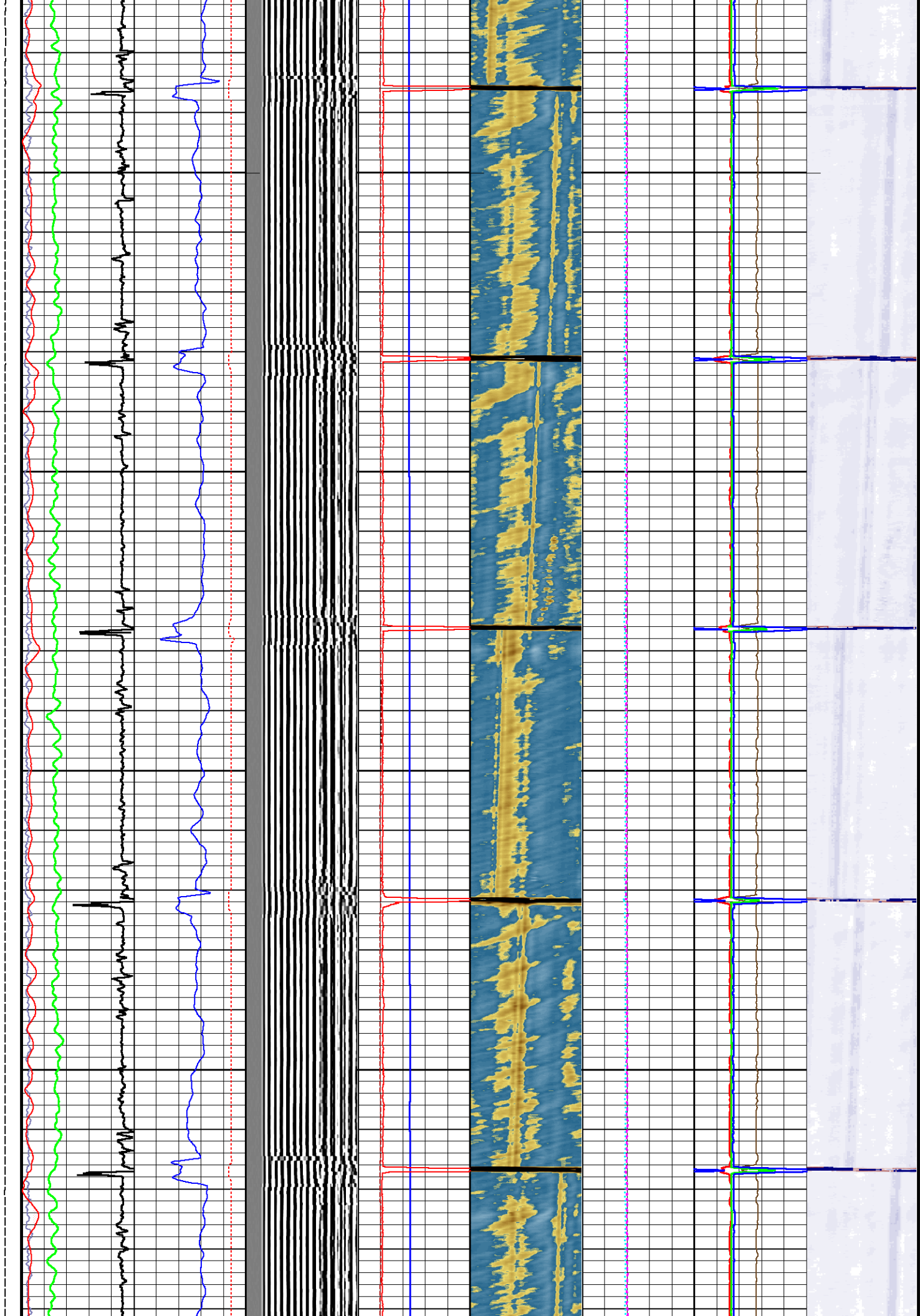


300

350

400

450



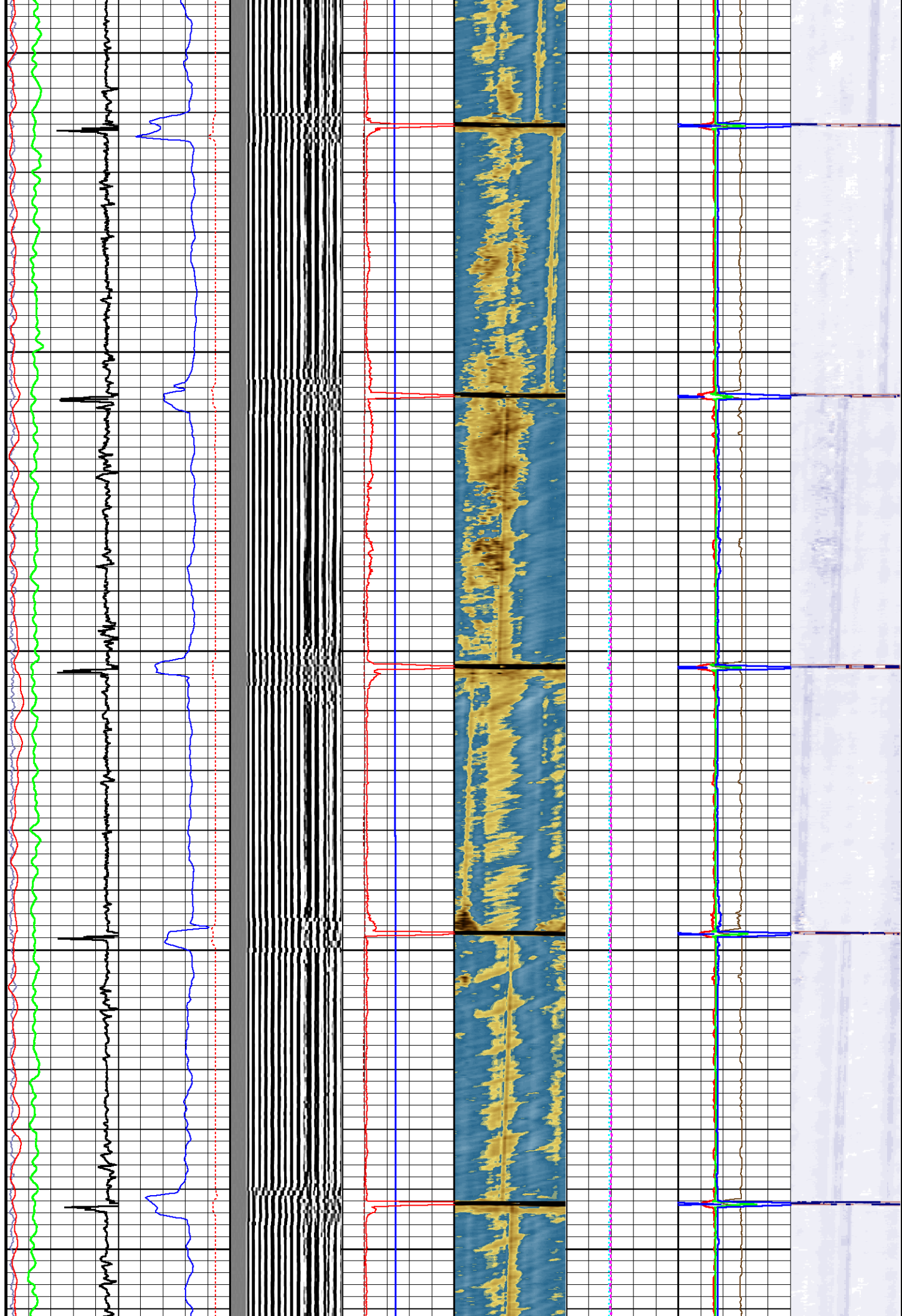
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550

600

650

700

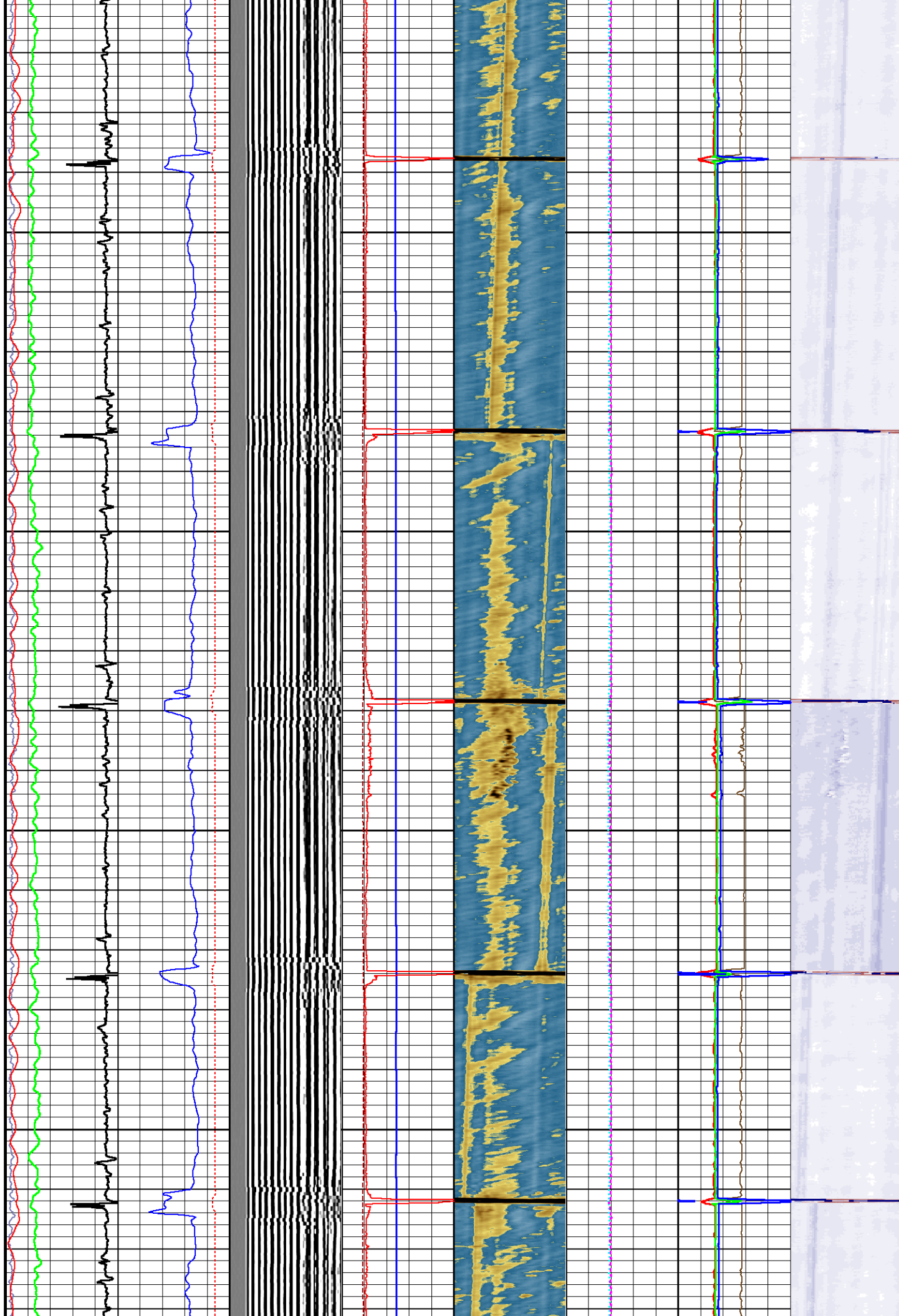


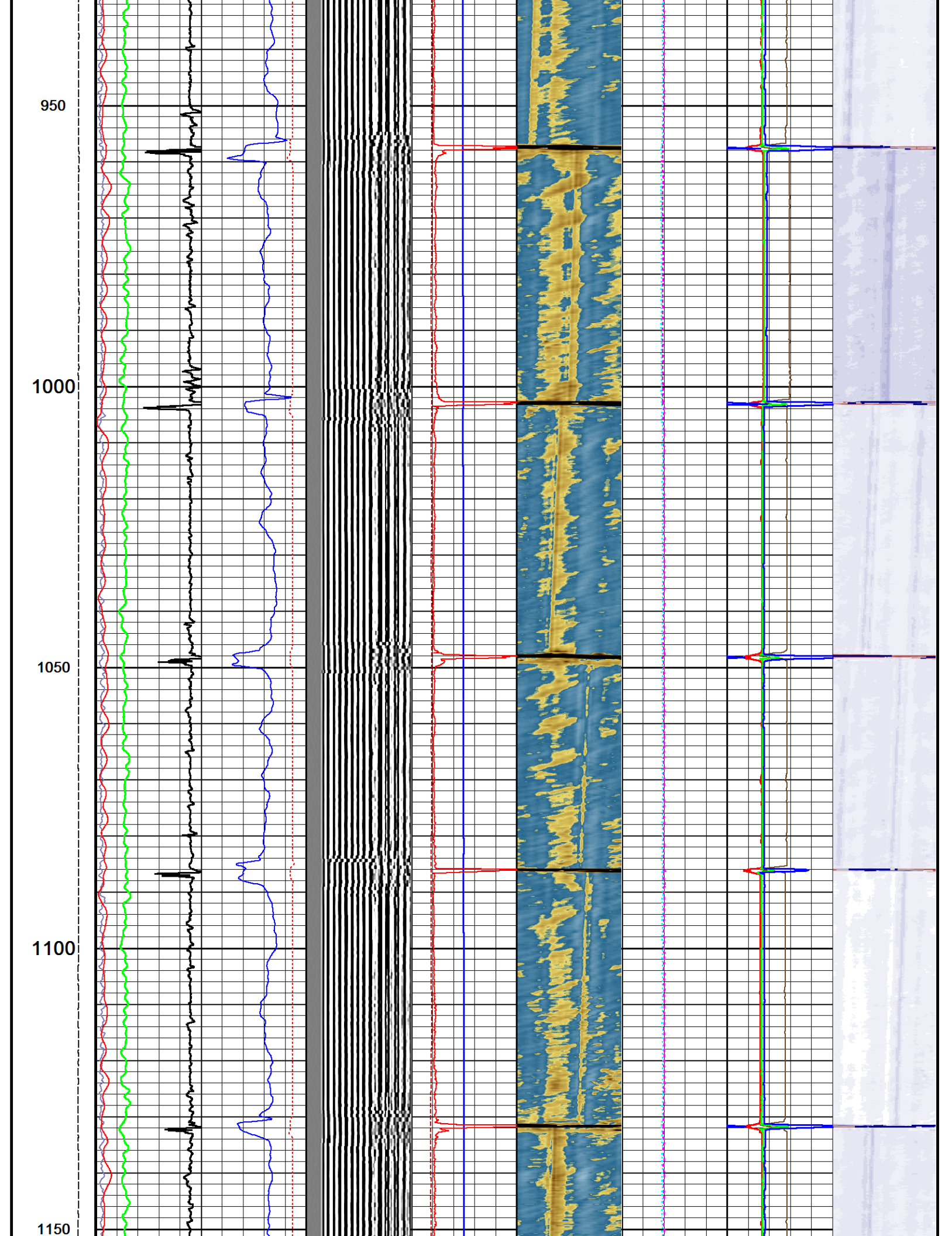
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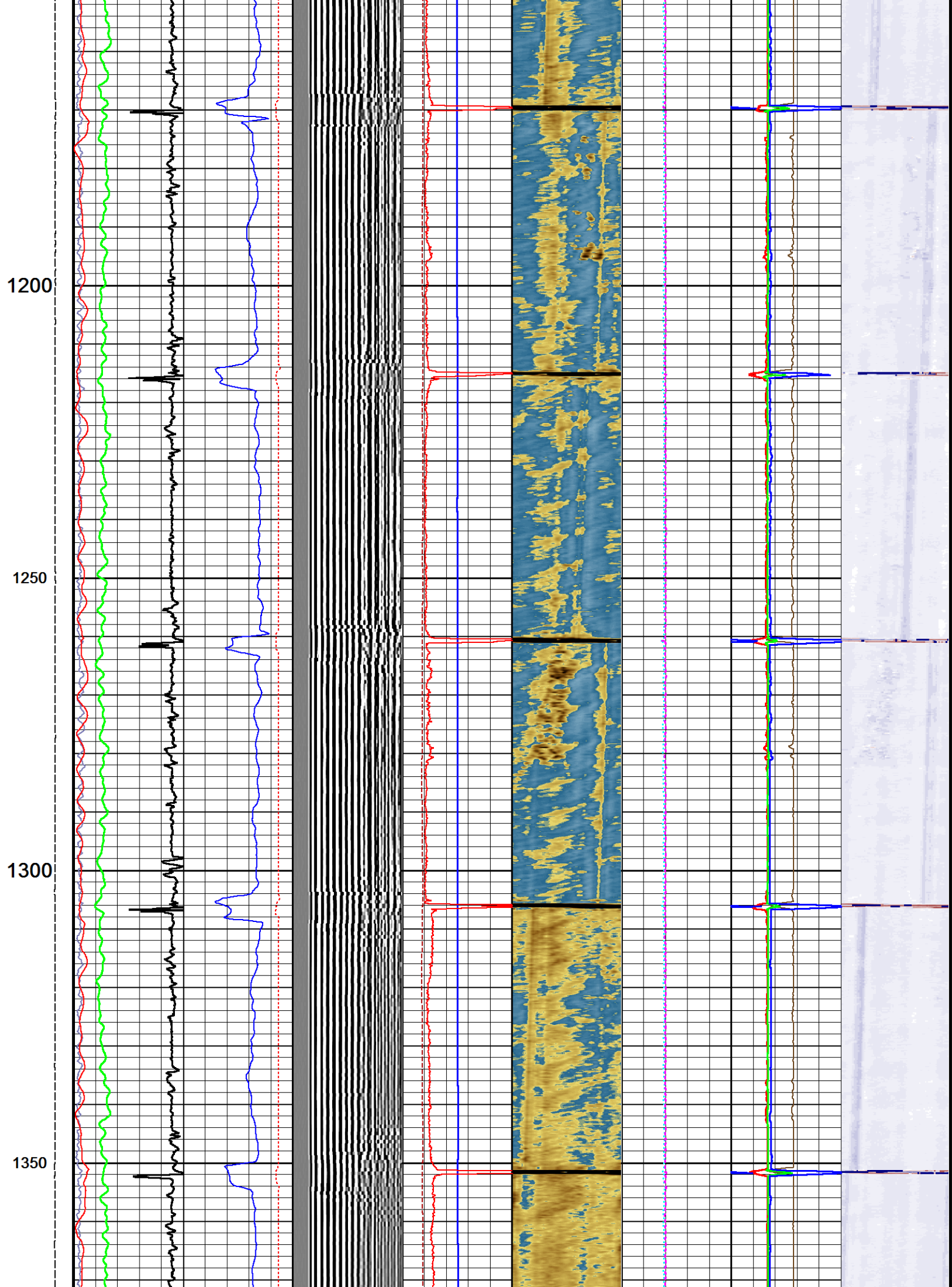
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850

900





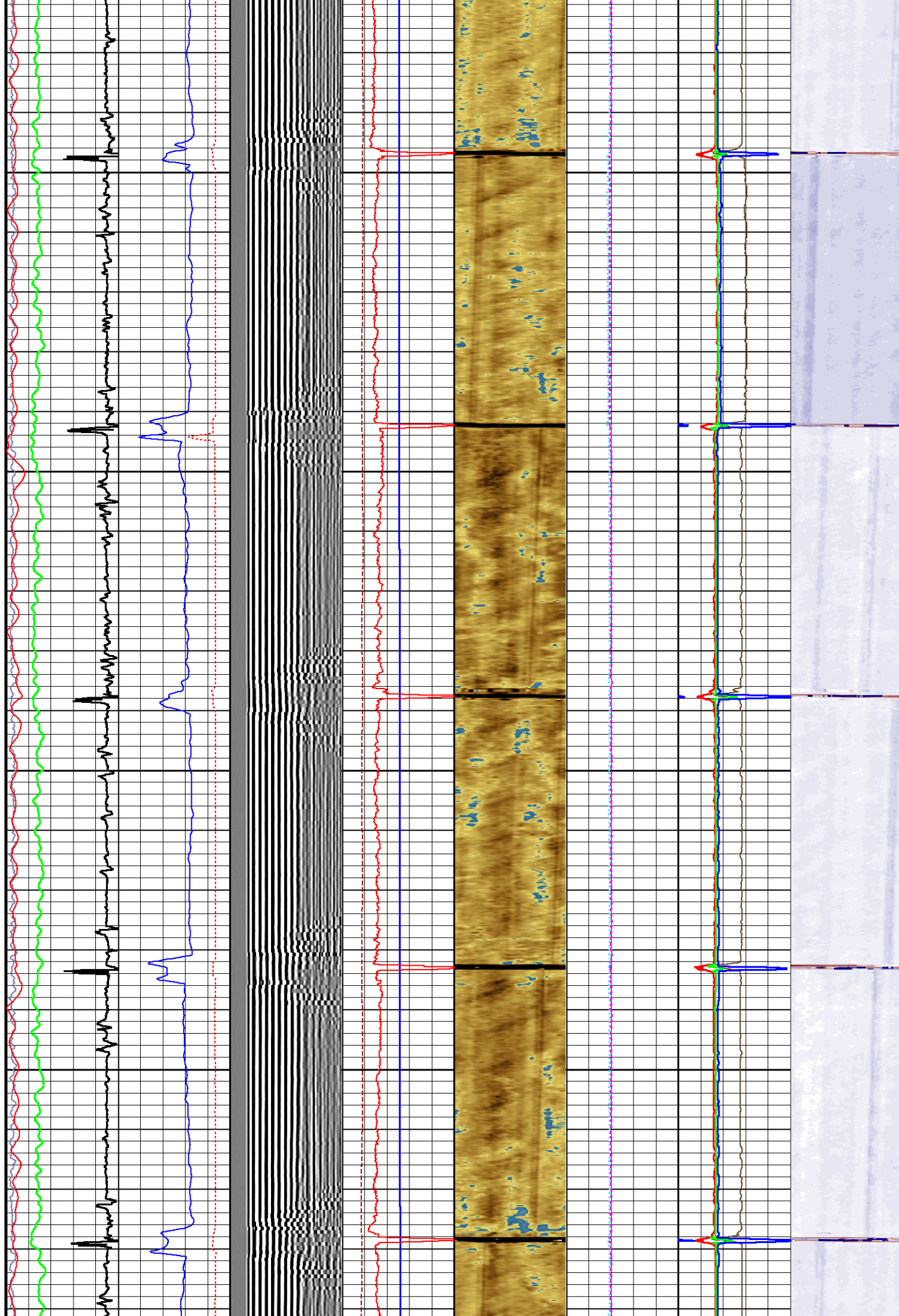


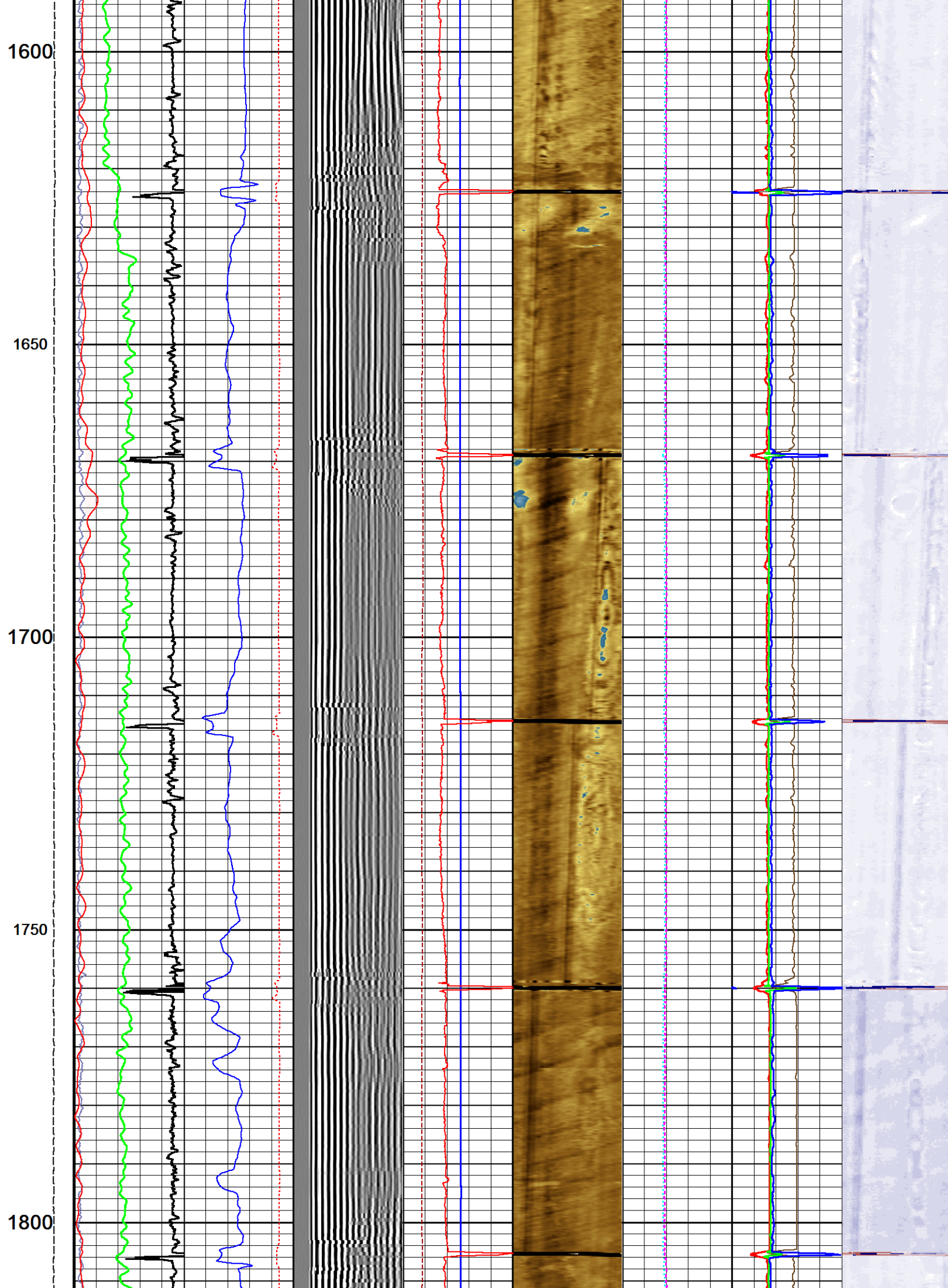
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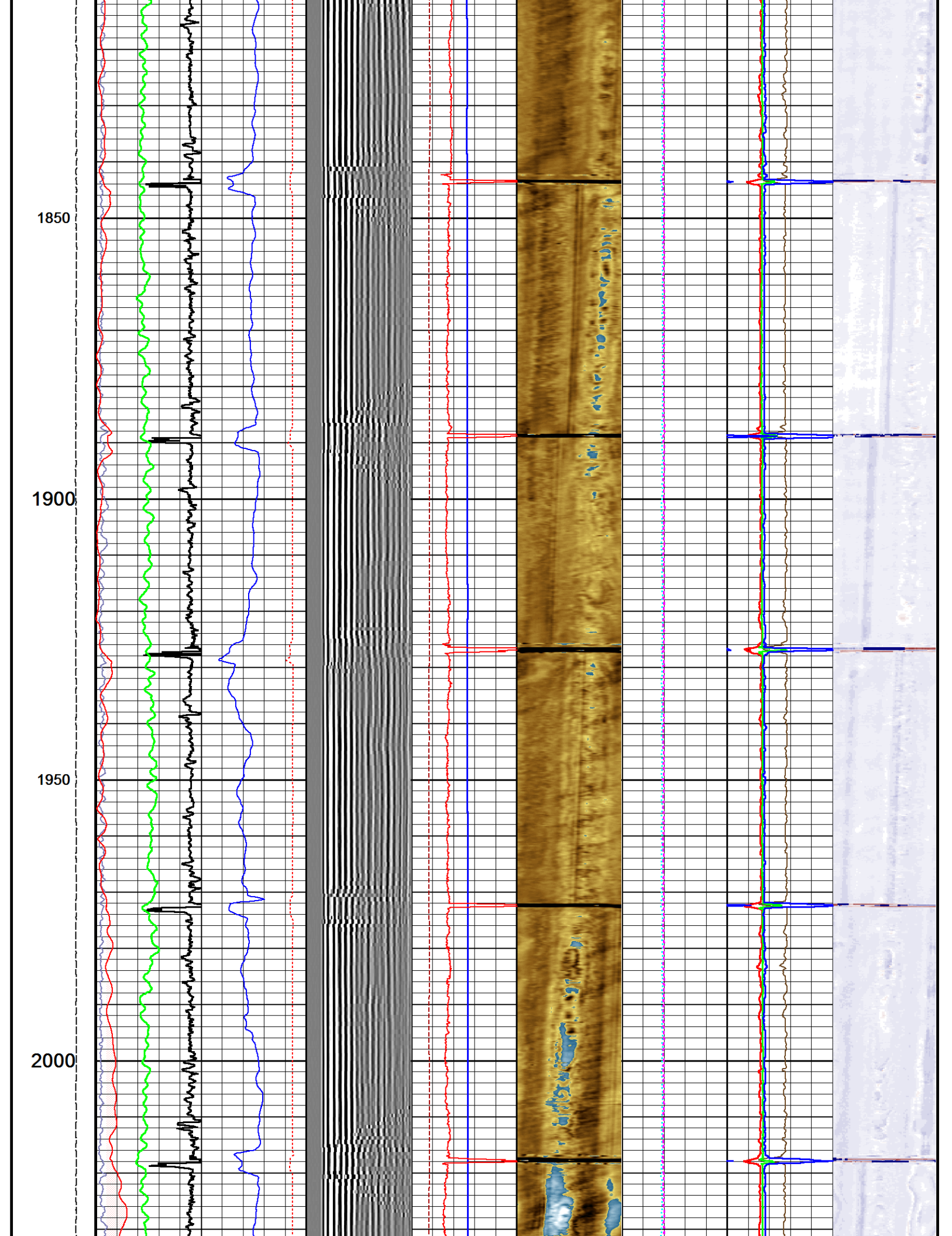
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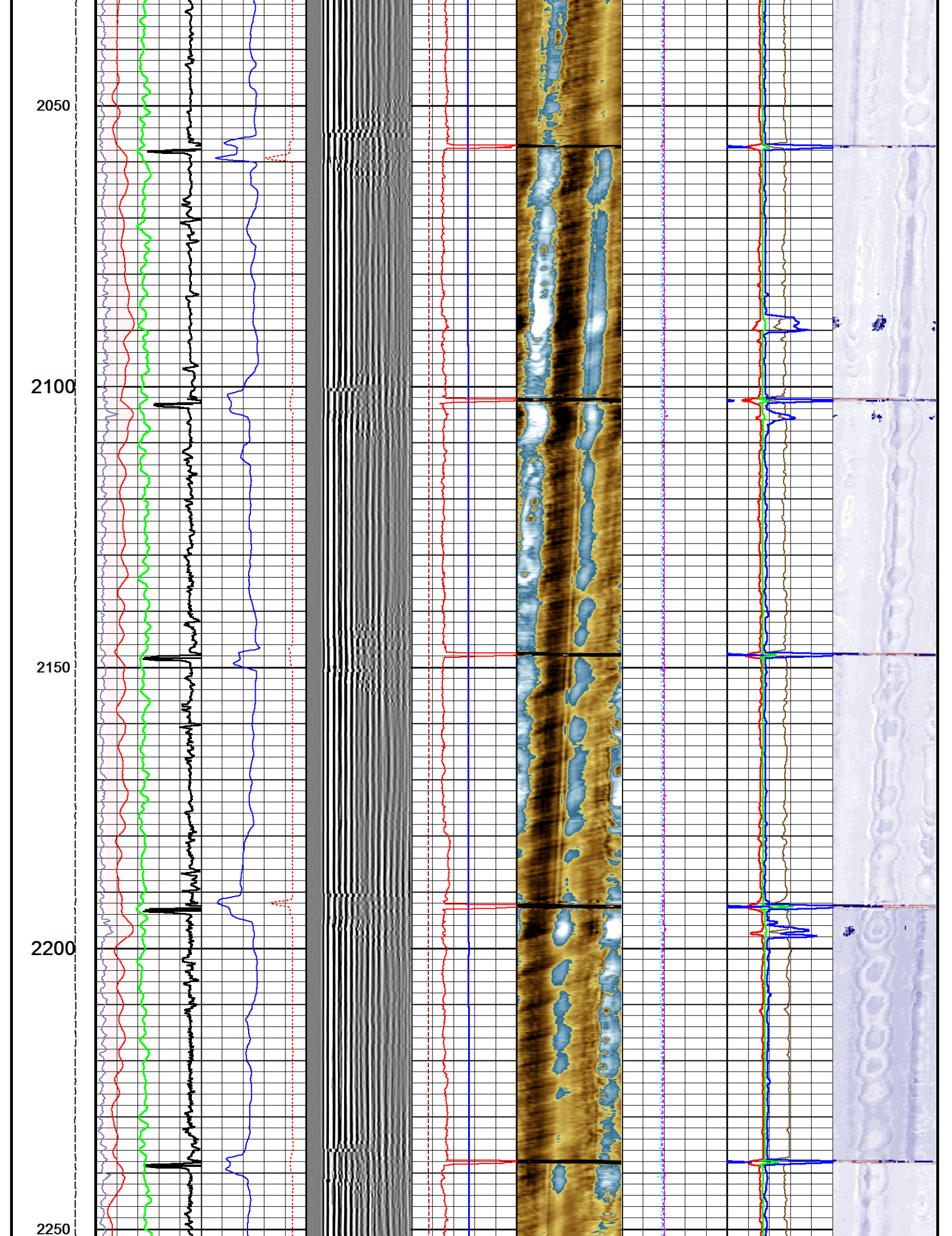
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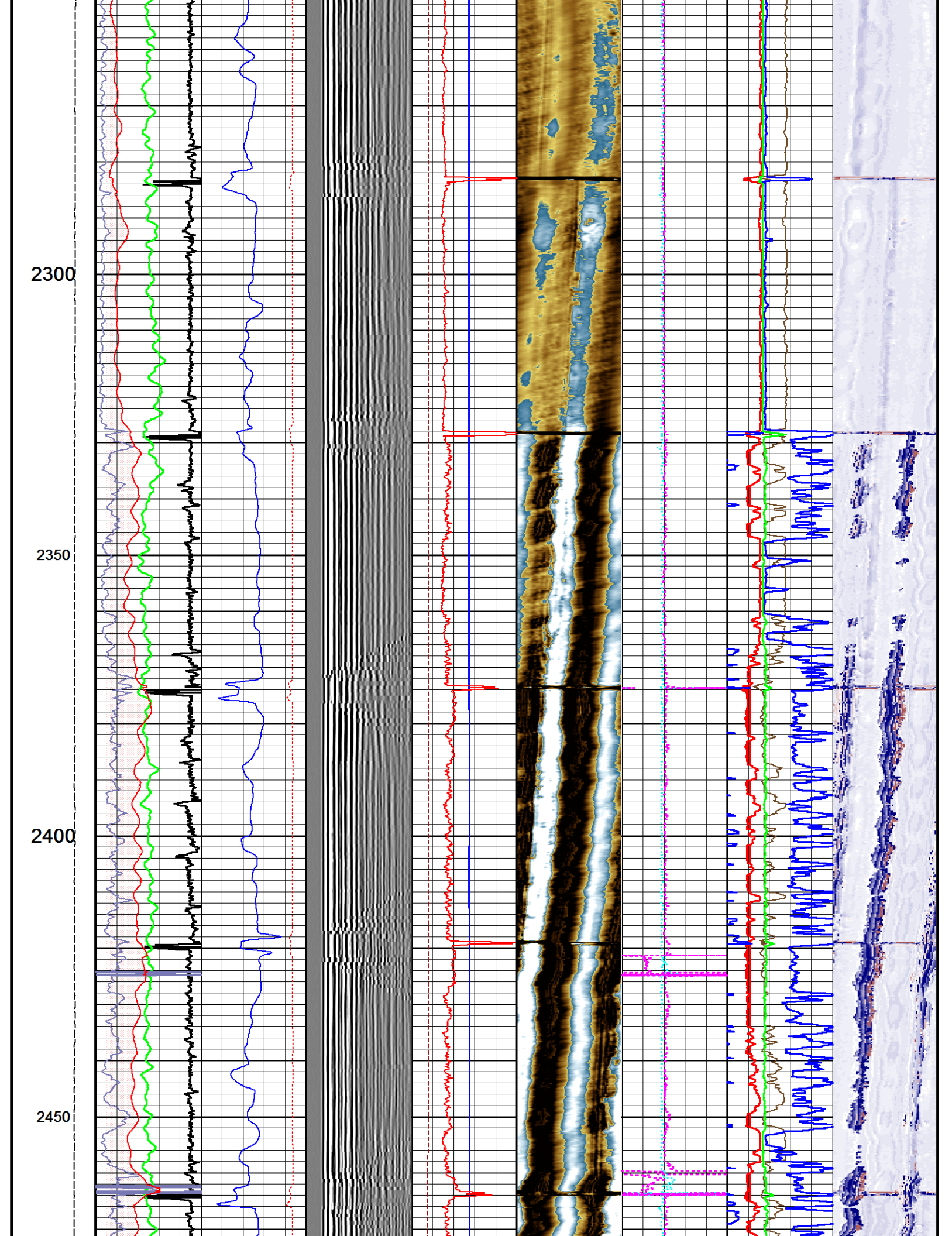
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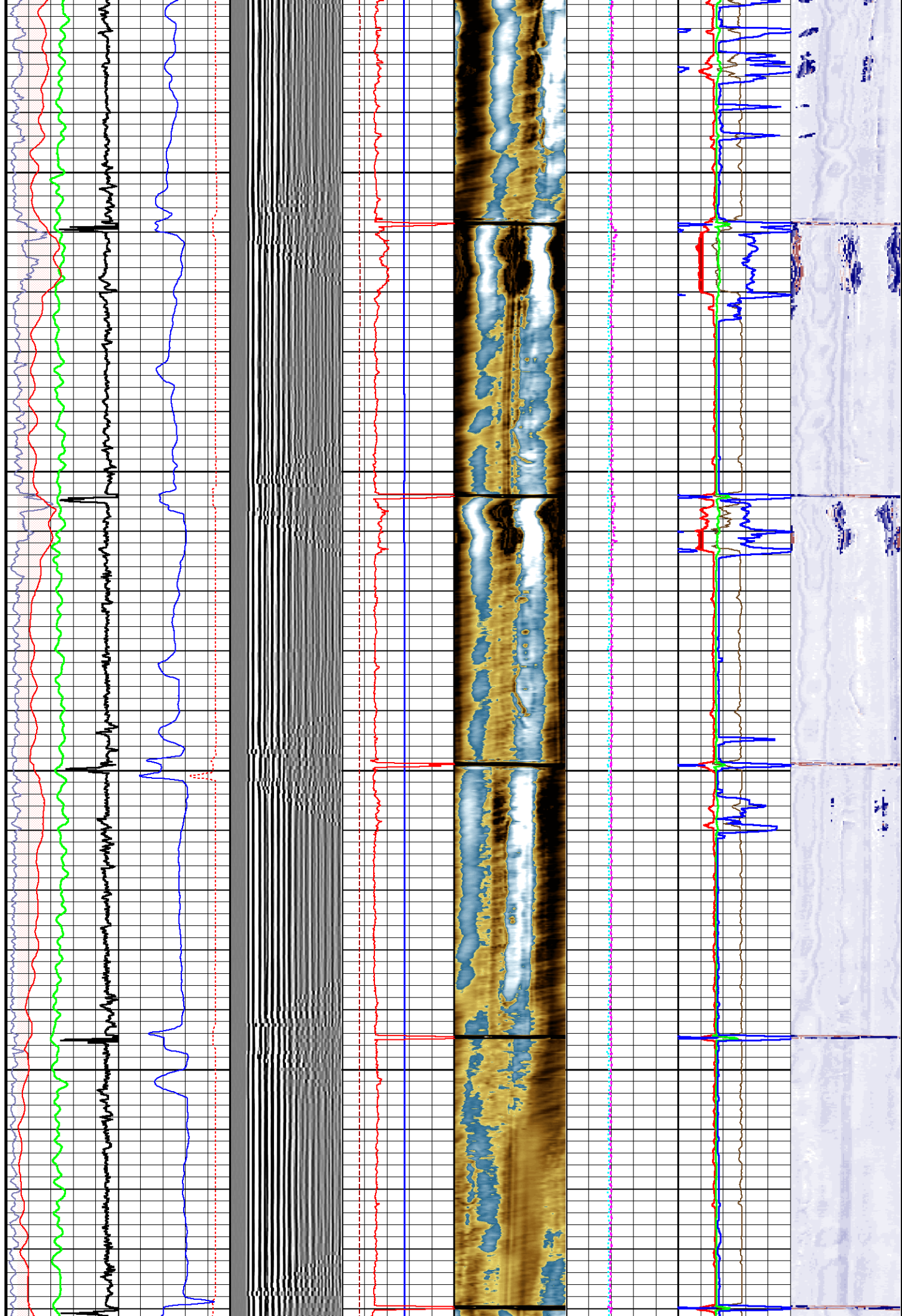


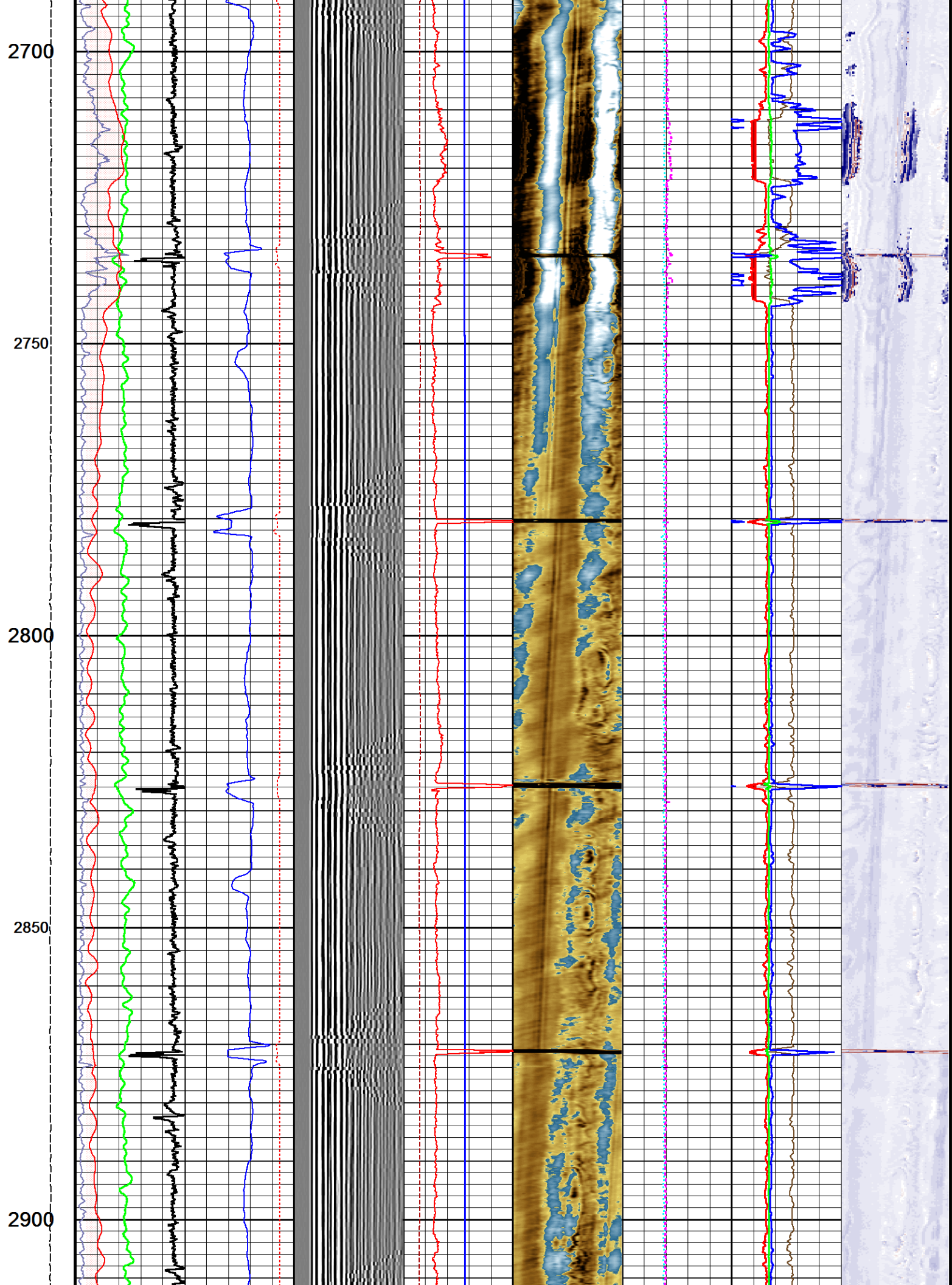
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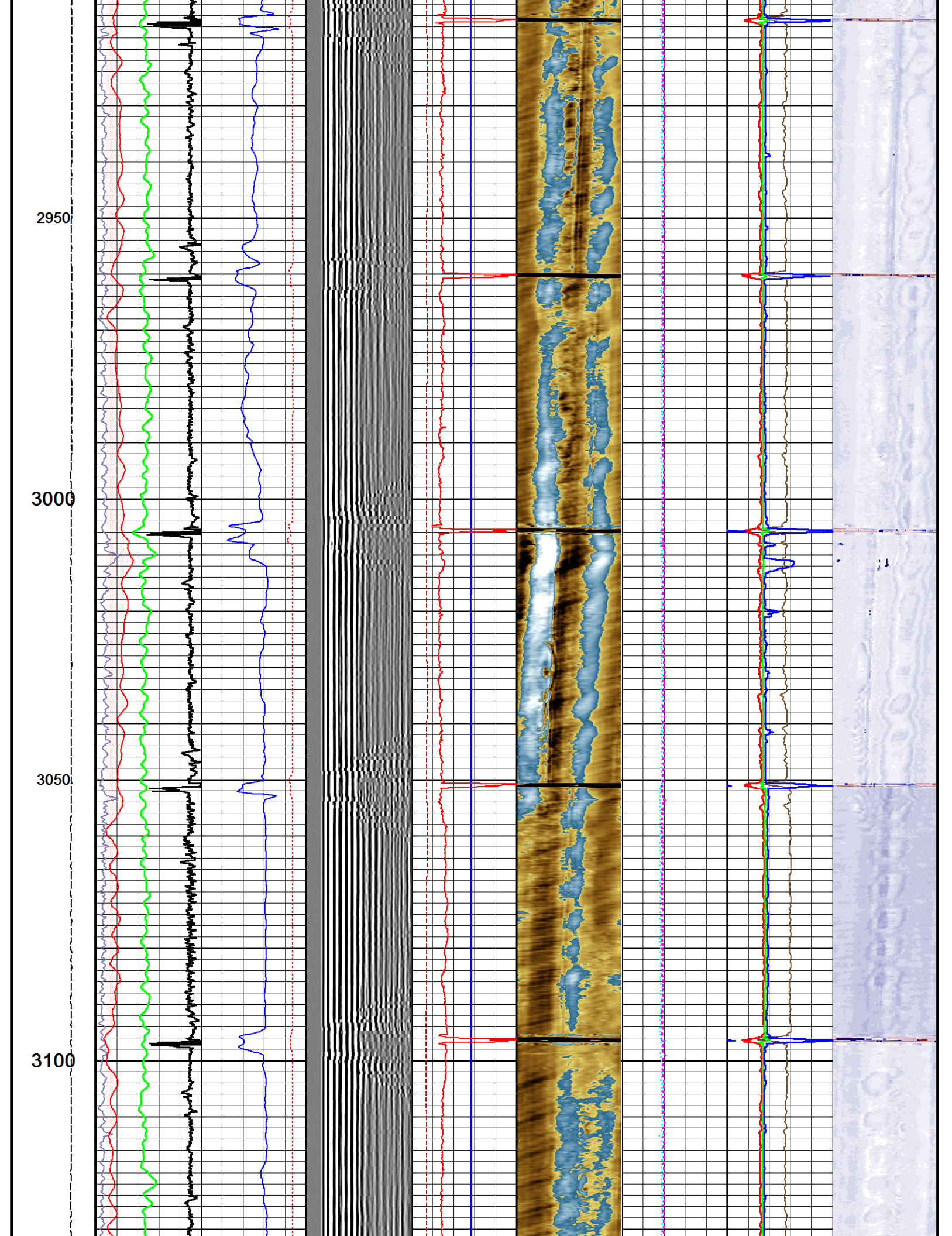
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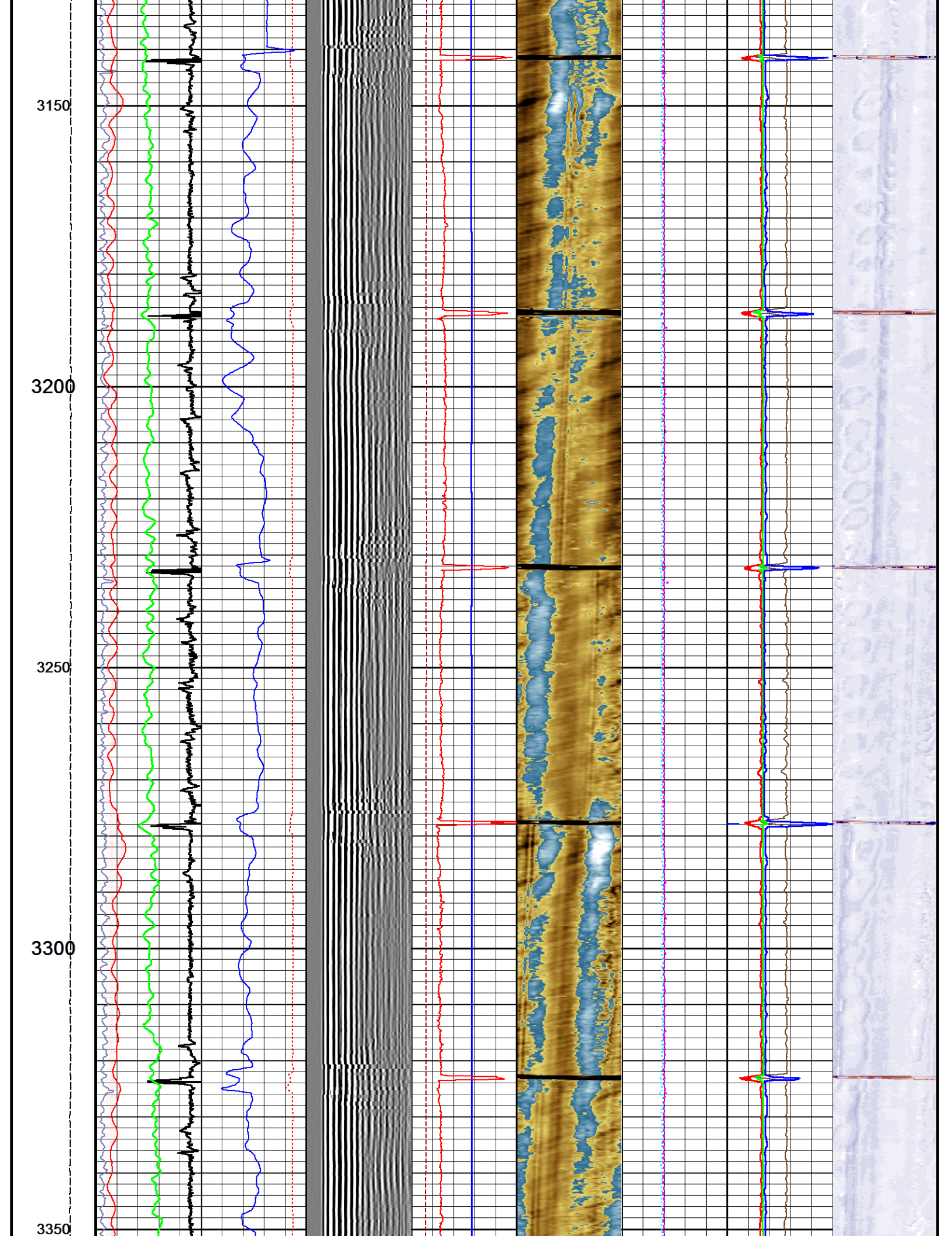
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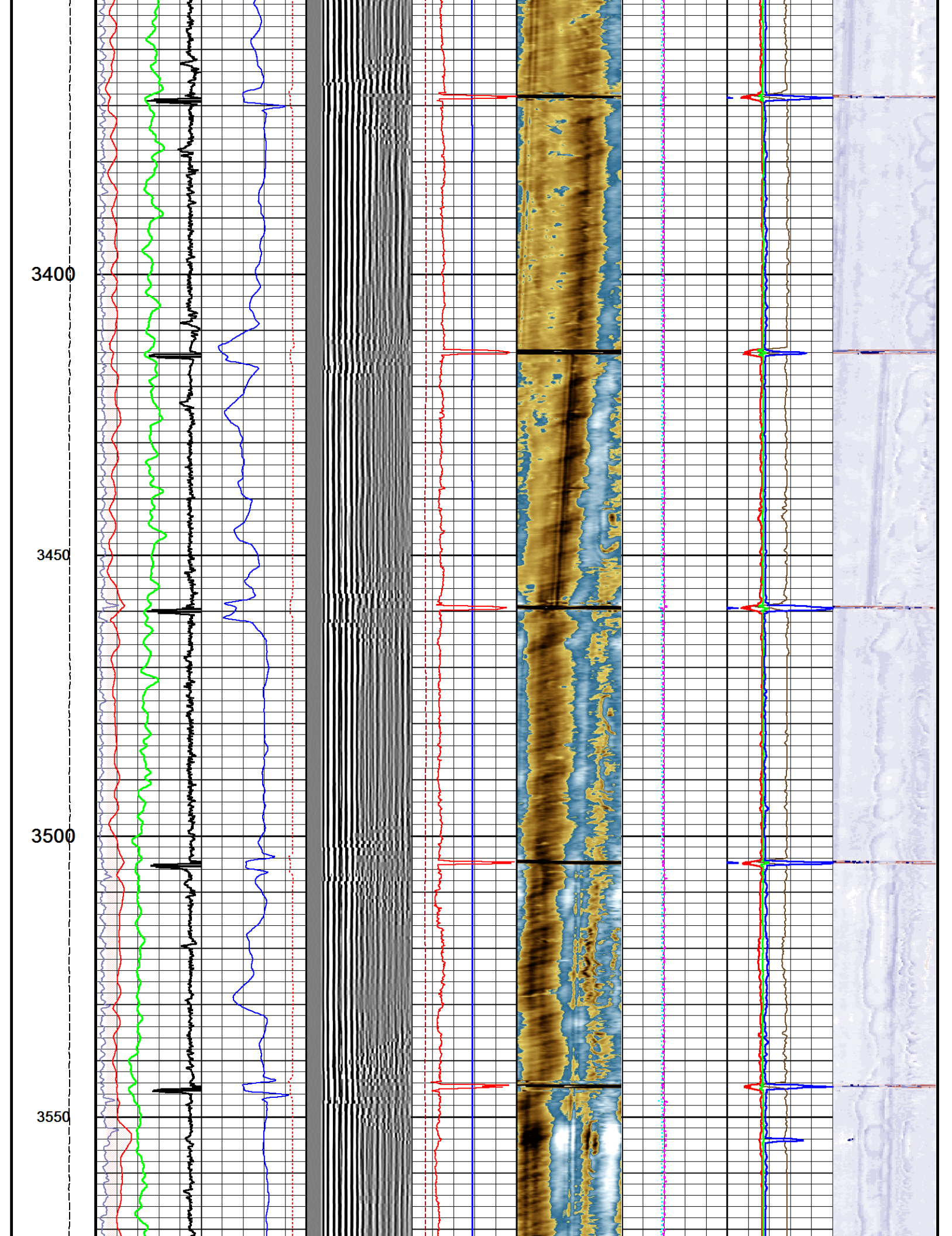
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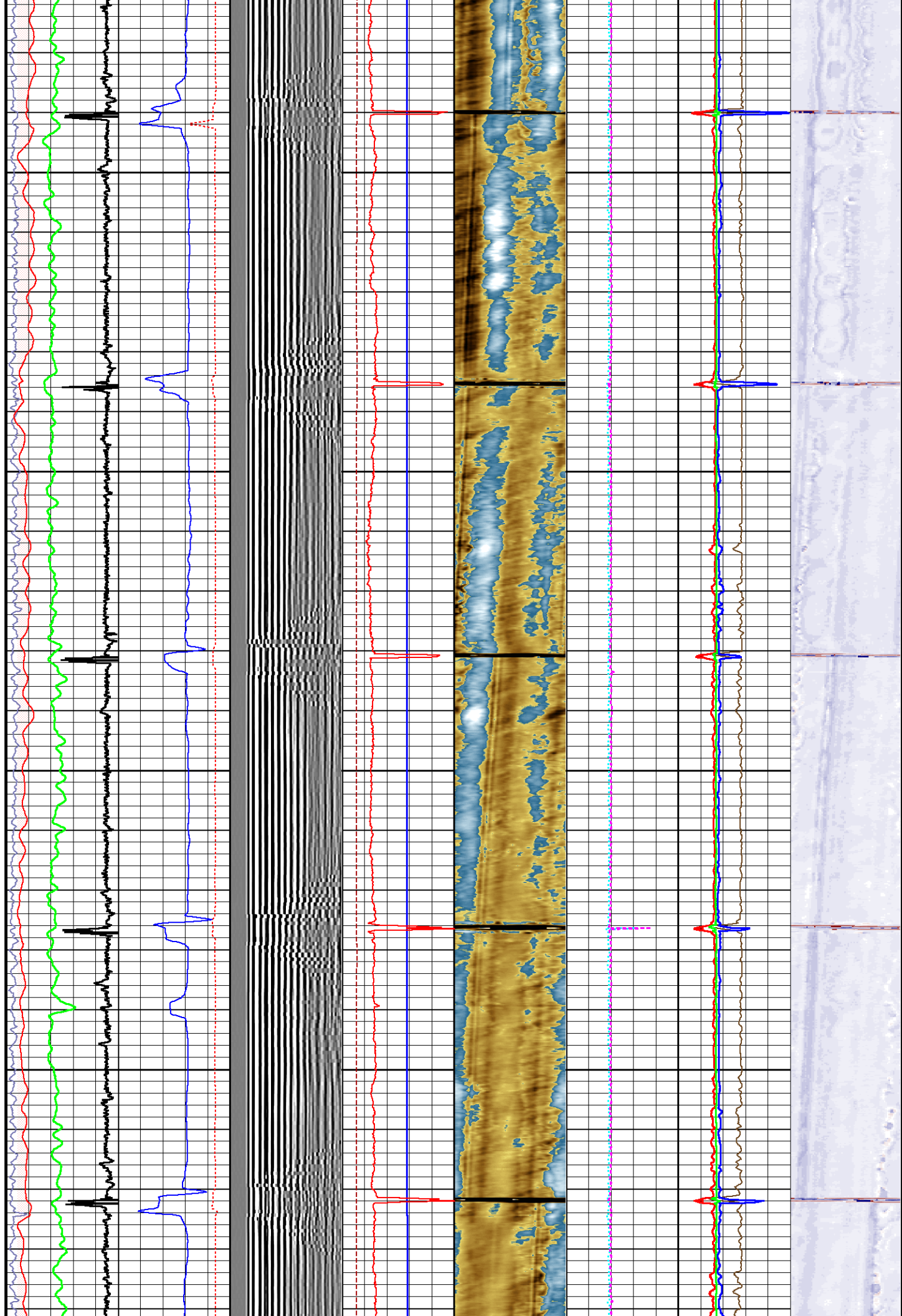


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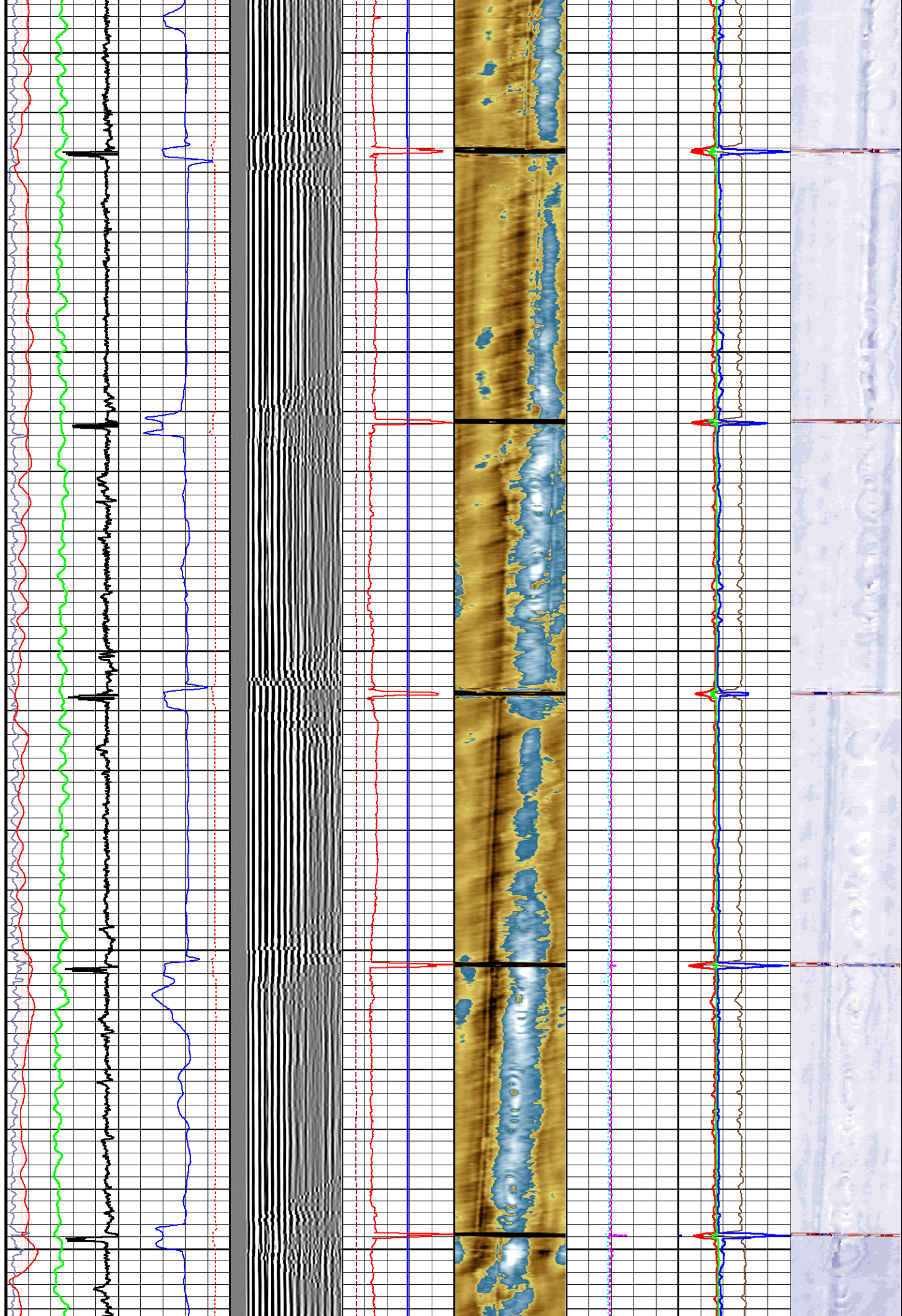
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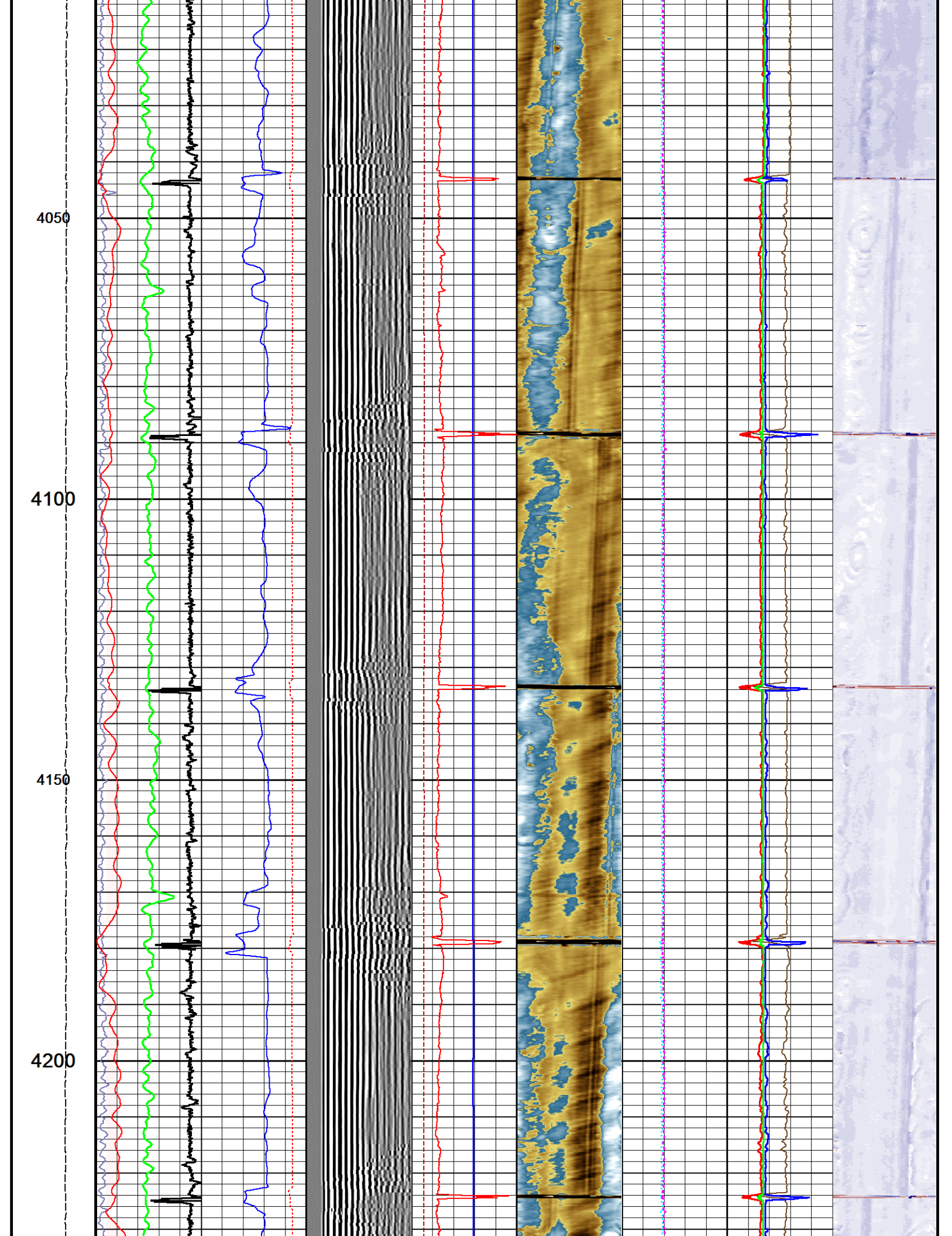
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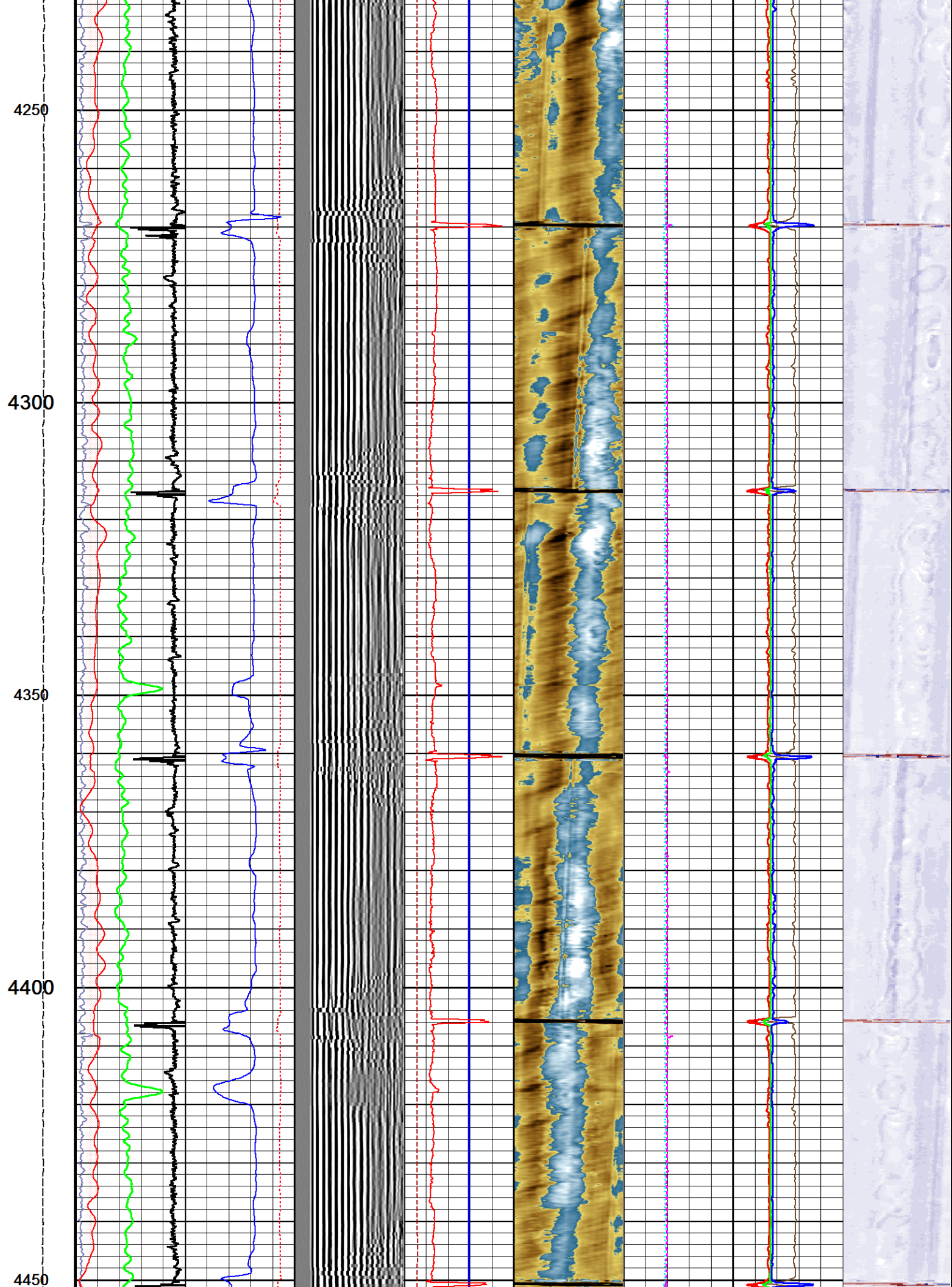
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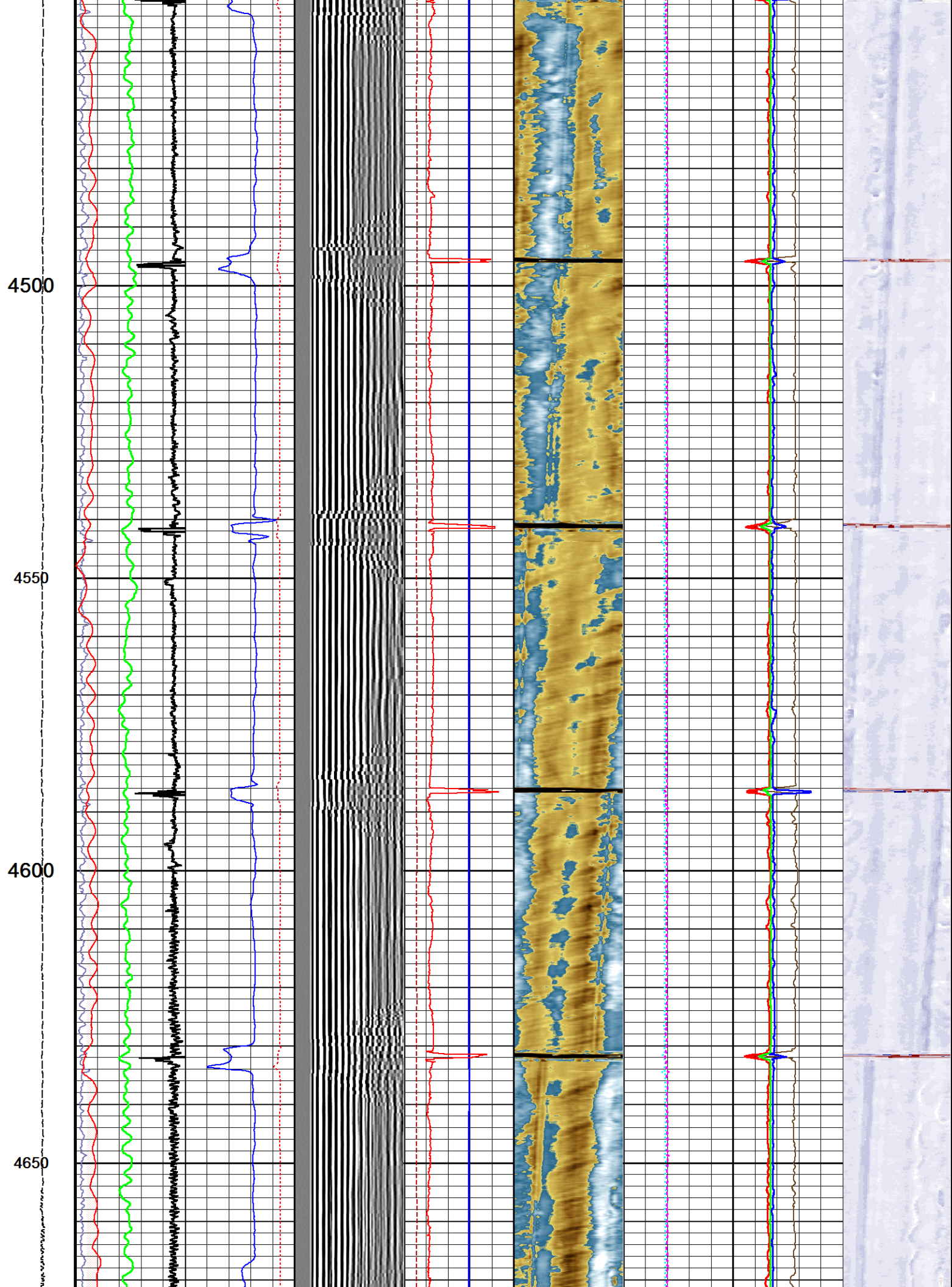


3800
3850
3900
3950
4000







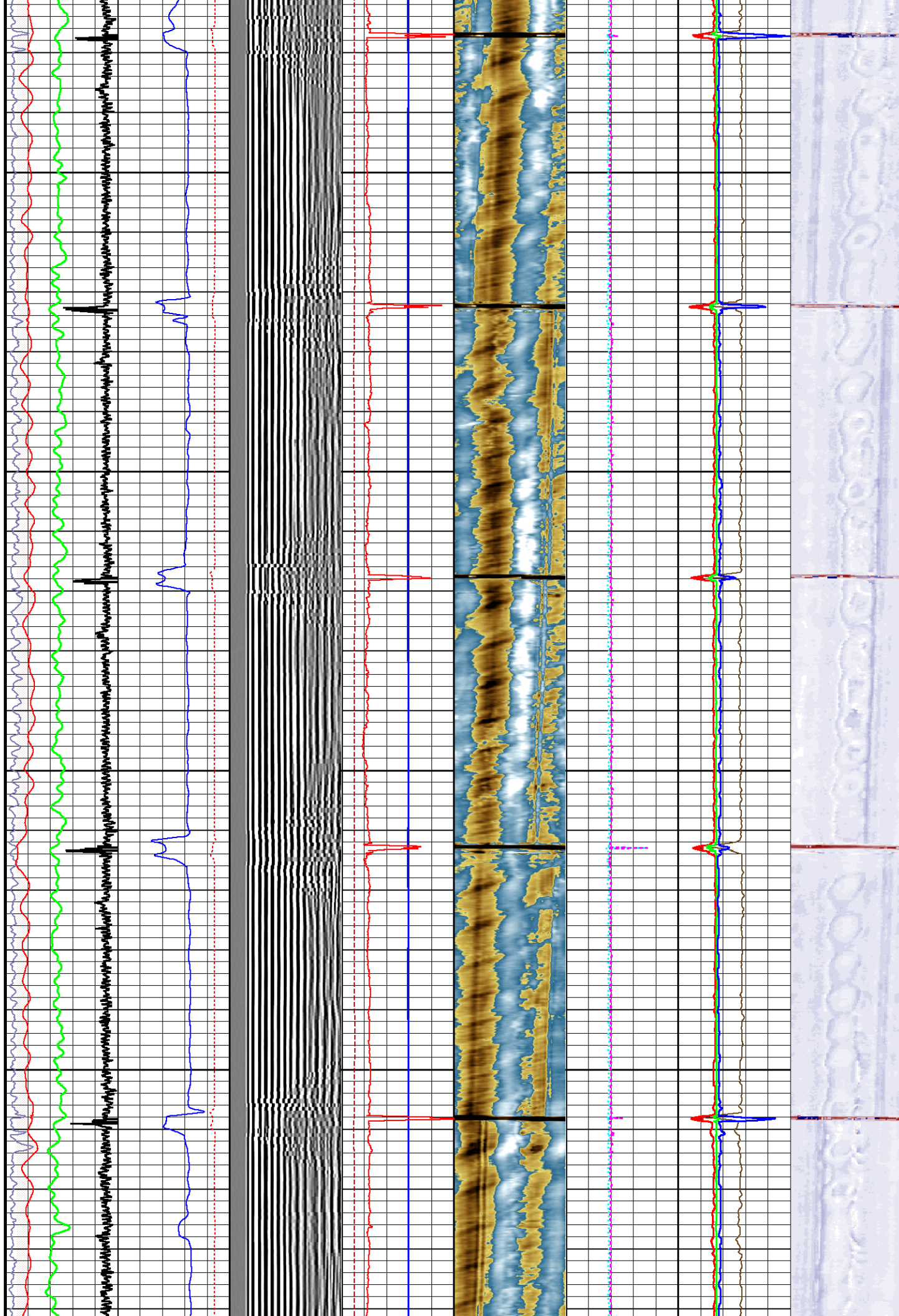


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4750

4800

4850



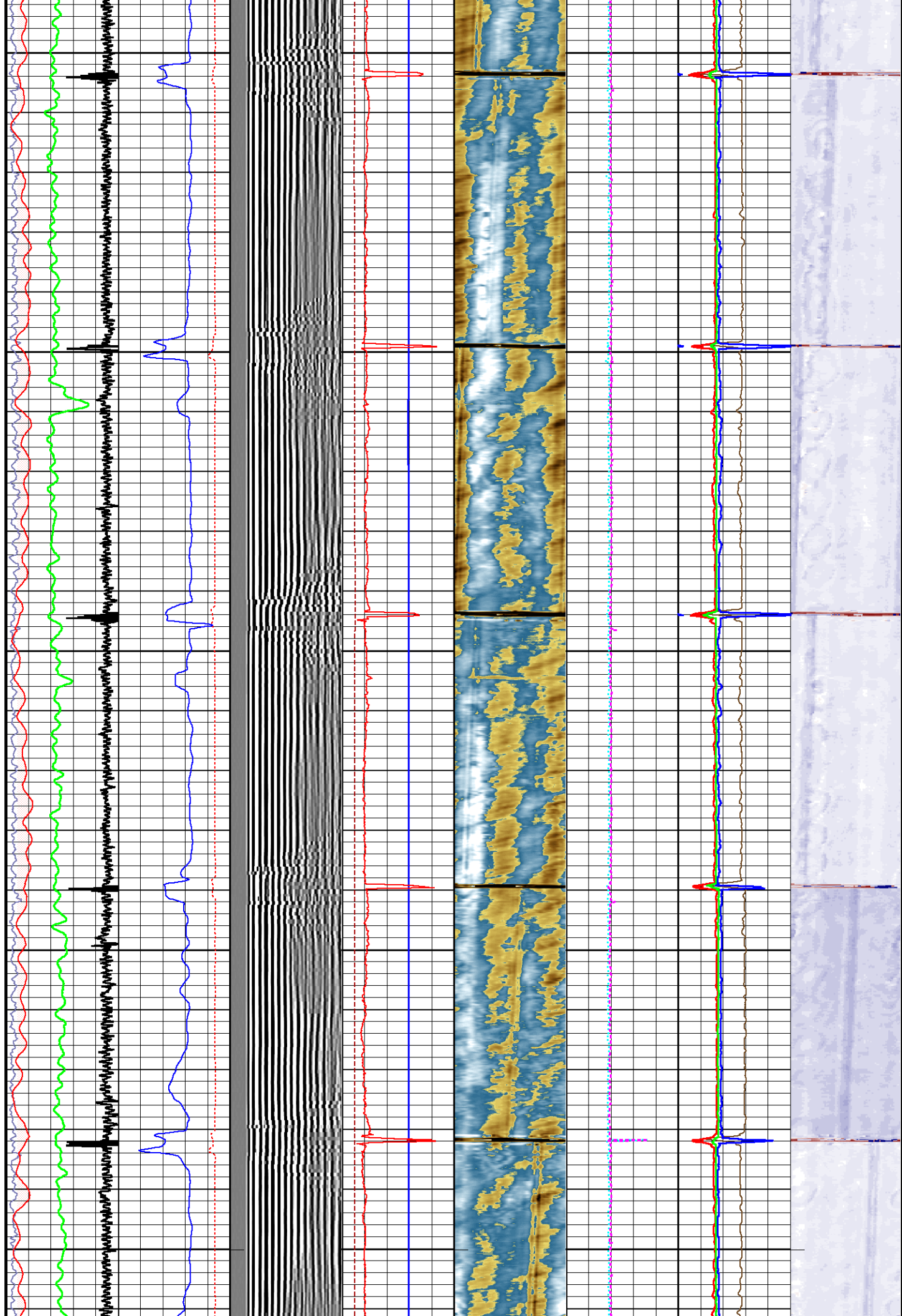
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4950

5000

5050

5100

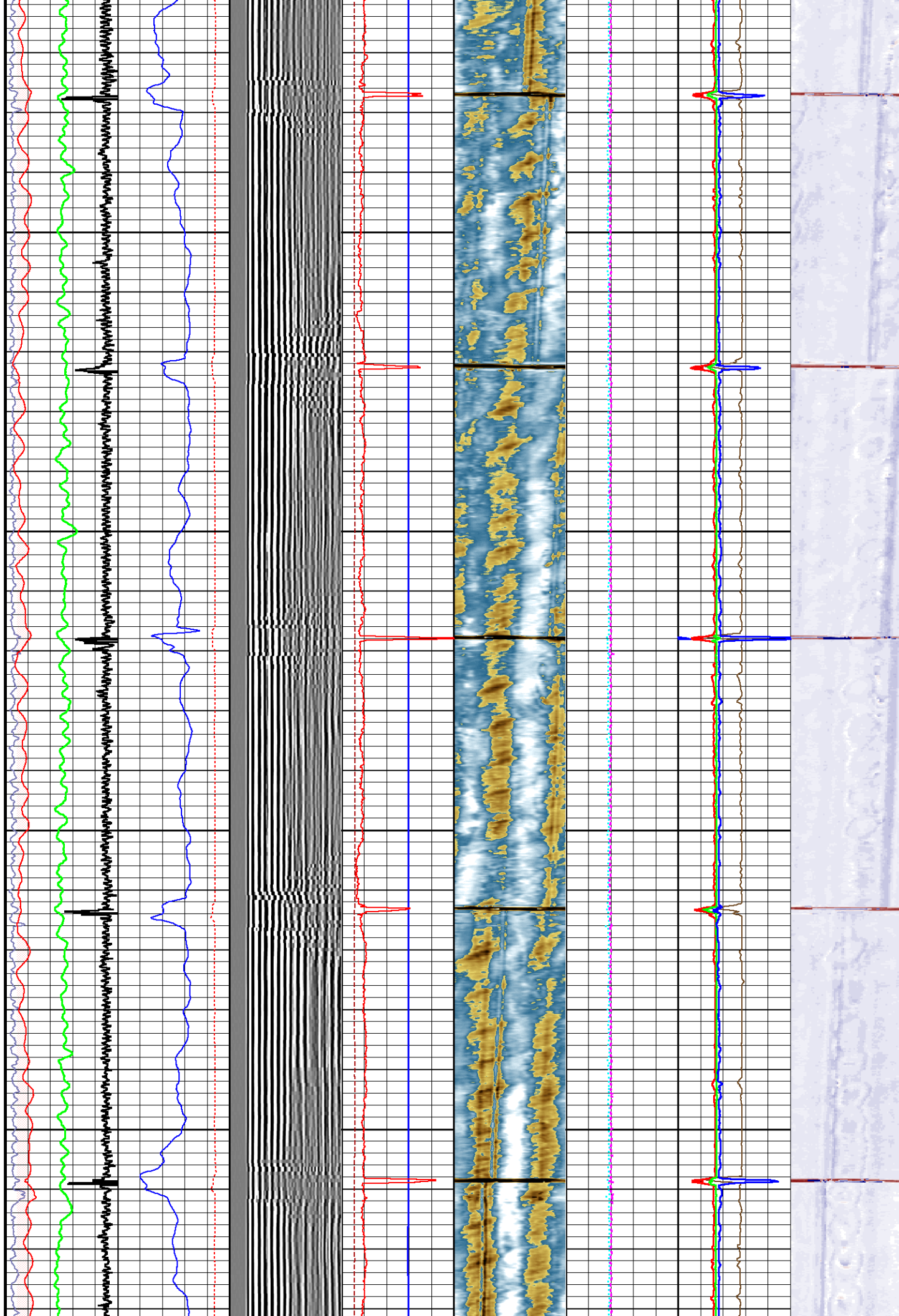


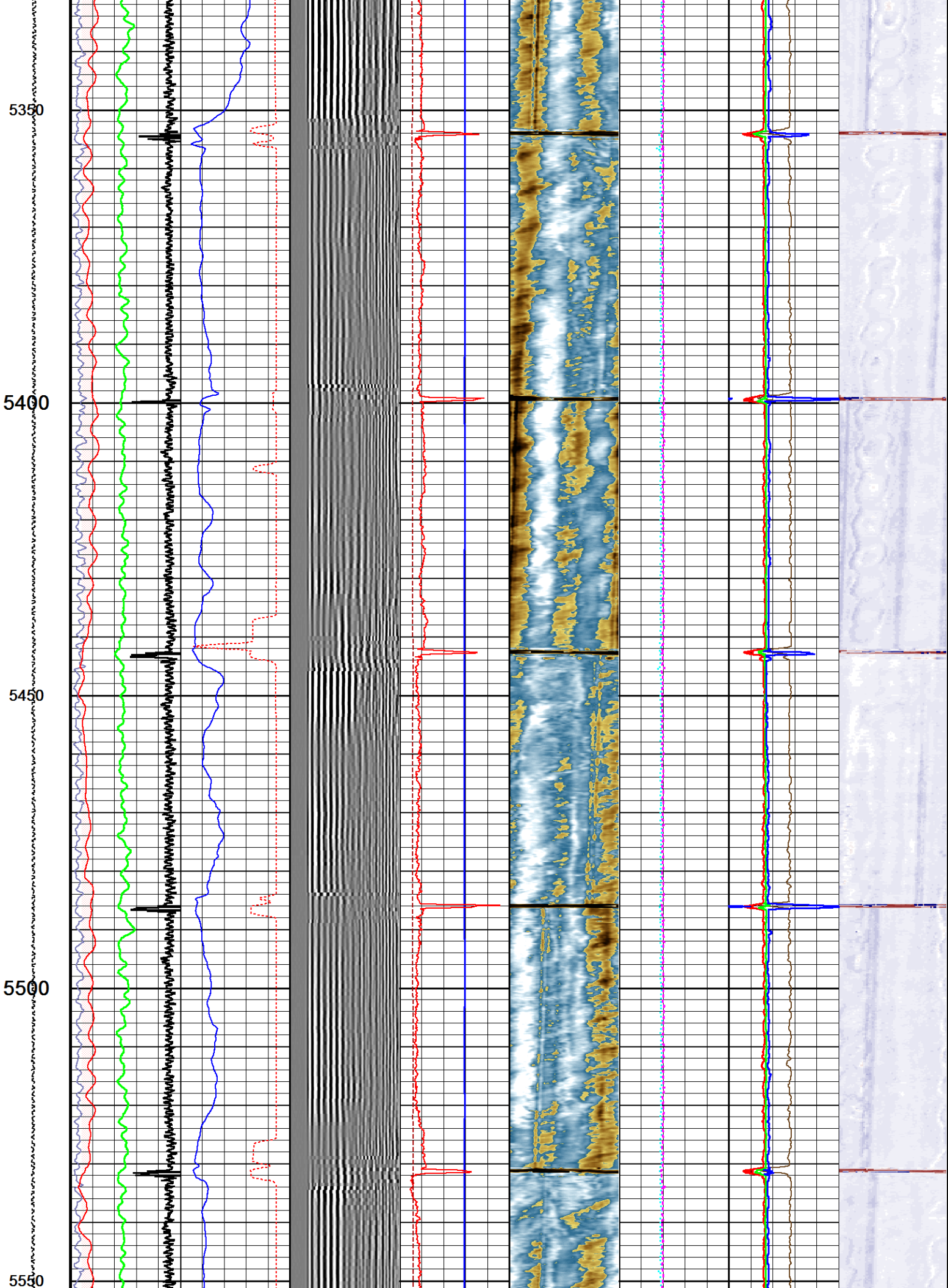
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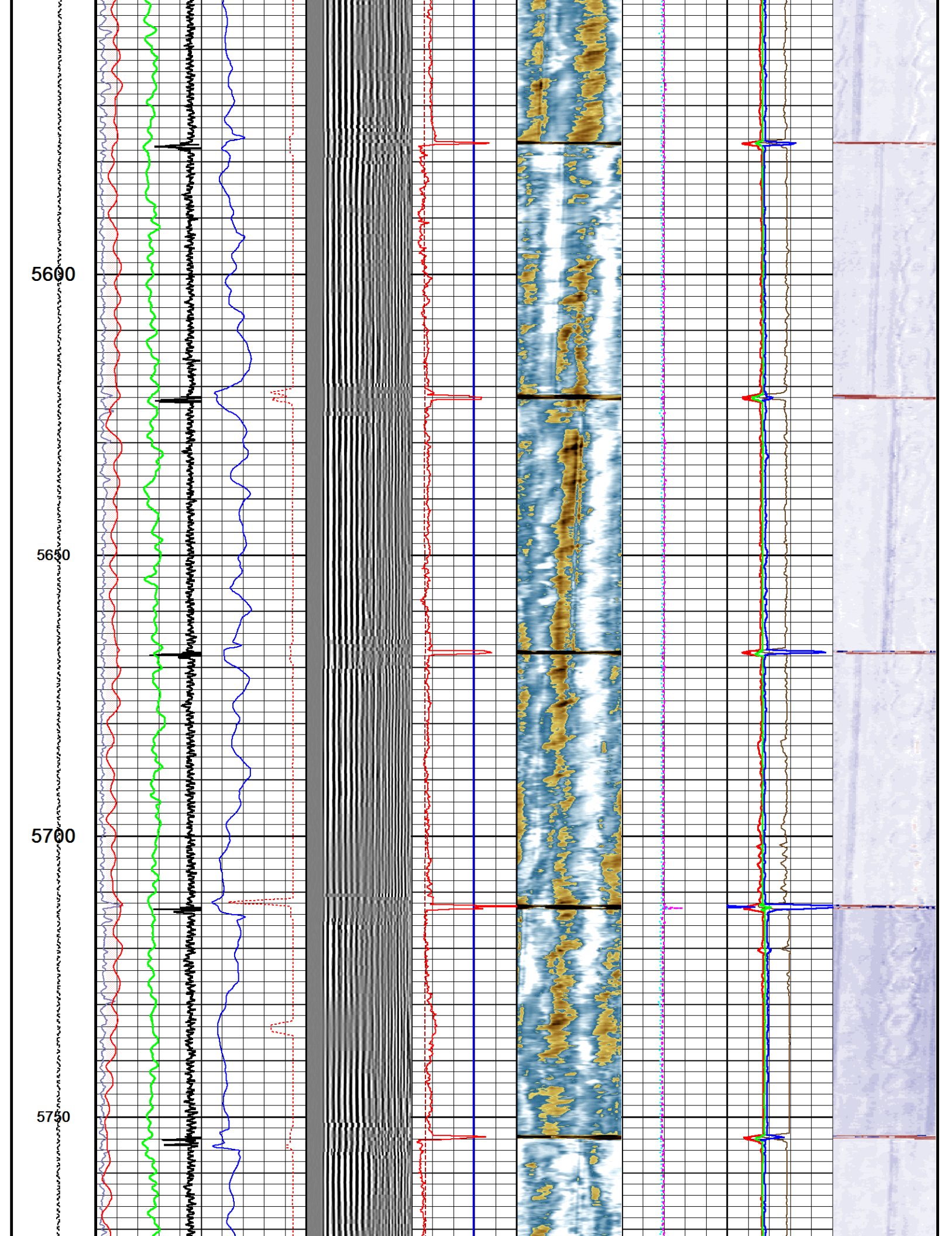
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5250

5300





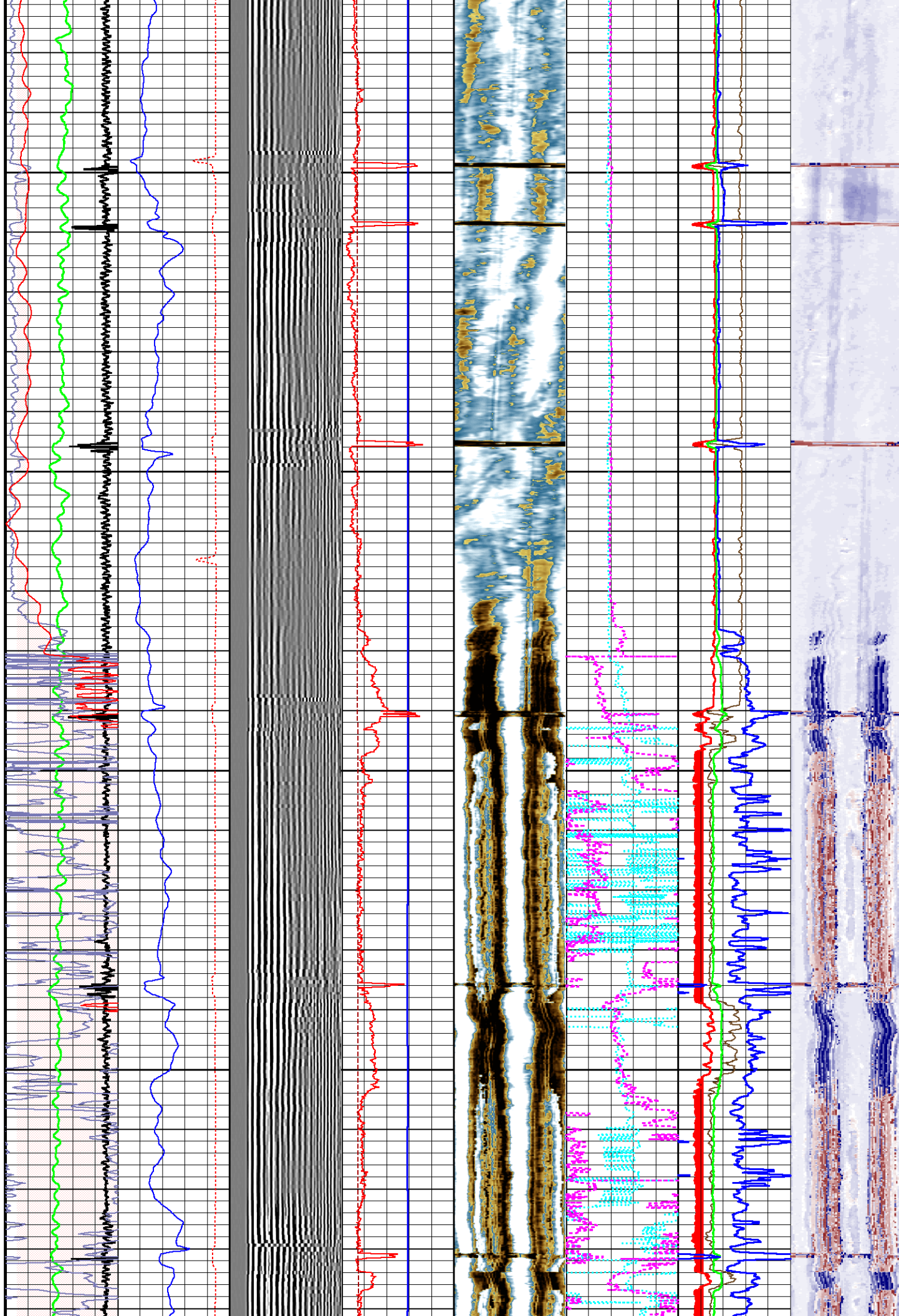


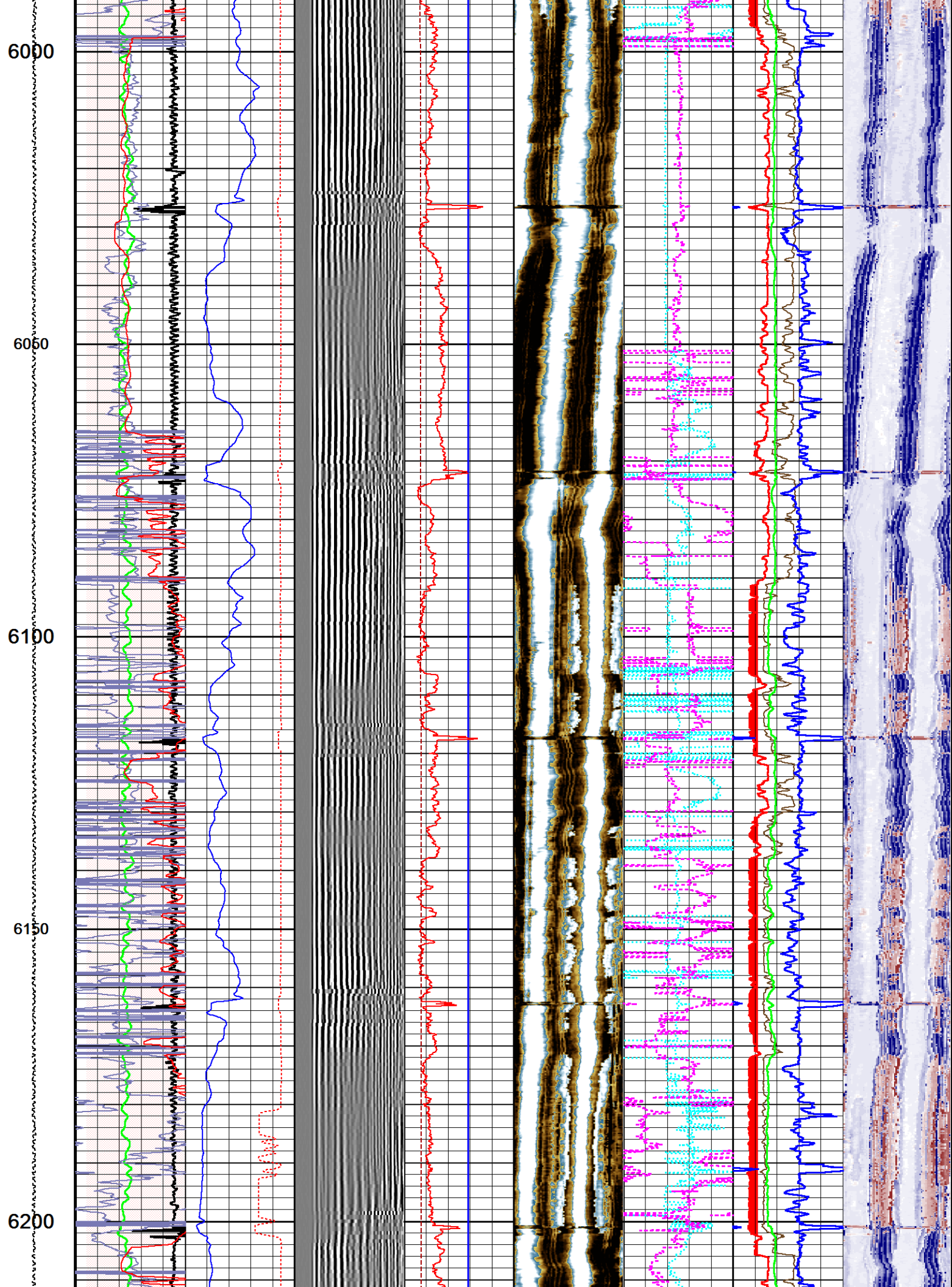
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5850

5900

5950





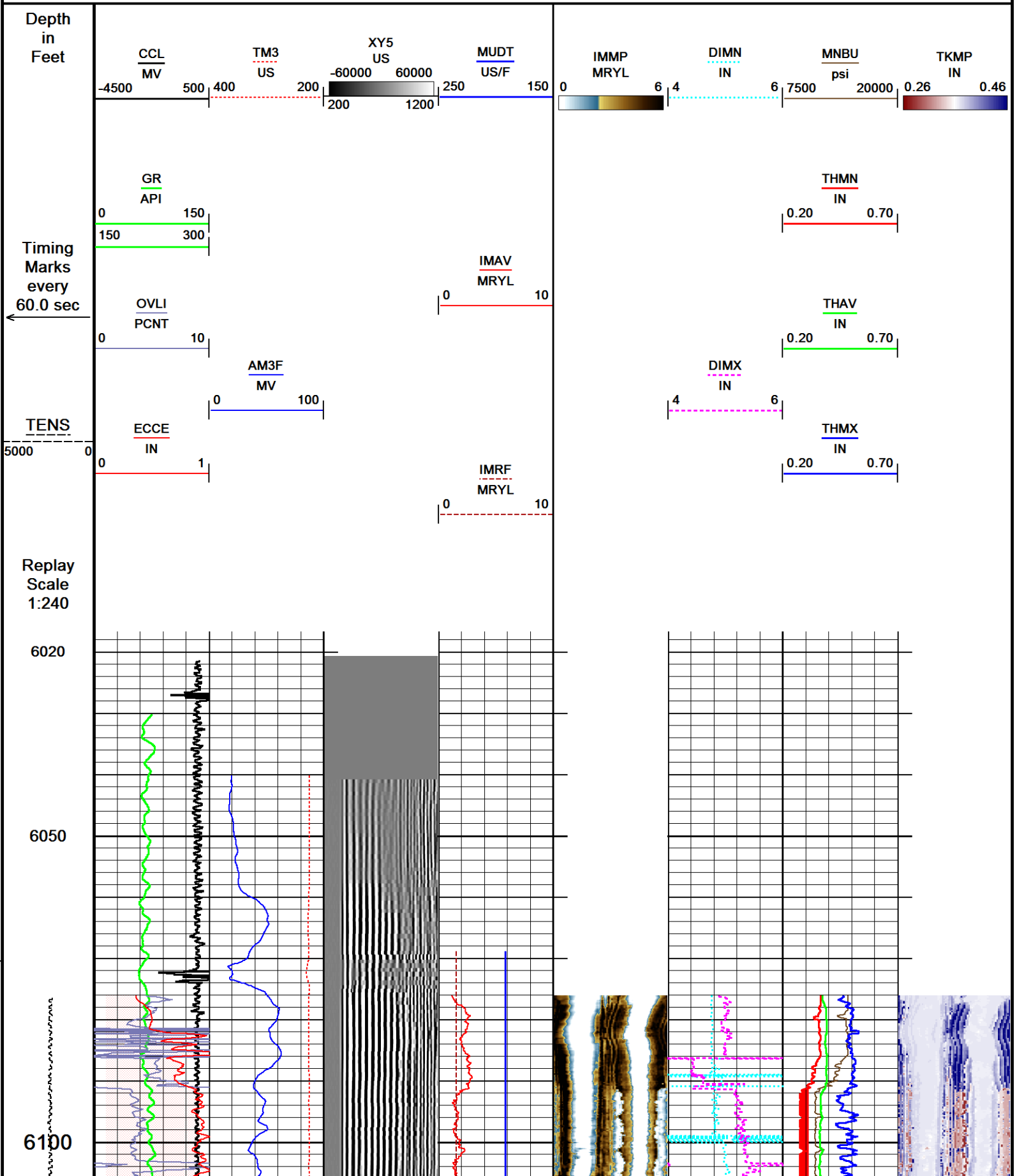
Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 21-MAY-2019 19:32

Filename: C:\Users\le197426\Desktop\LOGS\BONANZA CREEK\ANTELOP...REPEAT PASS_001.dta

Recorded on 21-MAY-2019 19:28

System Versions: Logged with 18.05.7089 Processed with 18.05.7089 Plotted with 18.05.7089



6150

6200

6250

6300

6312

Depth
in
Feet

CCL
MV

TM3
UIS

XY5
US
-60000 60000

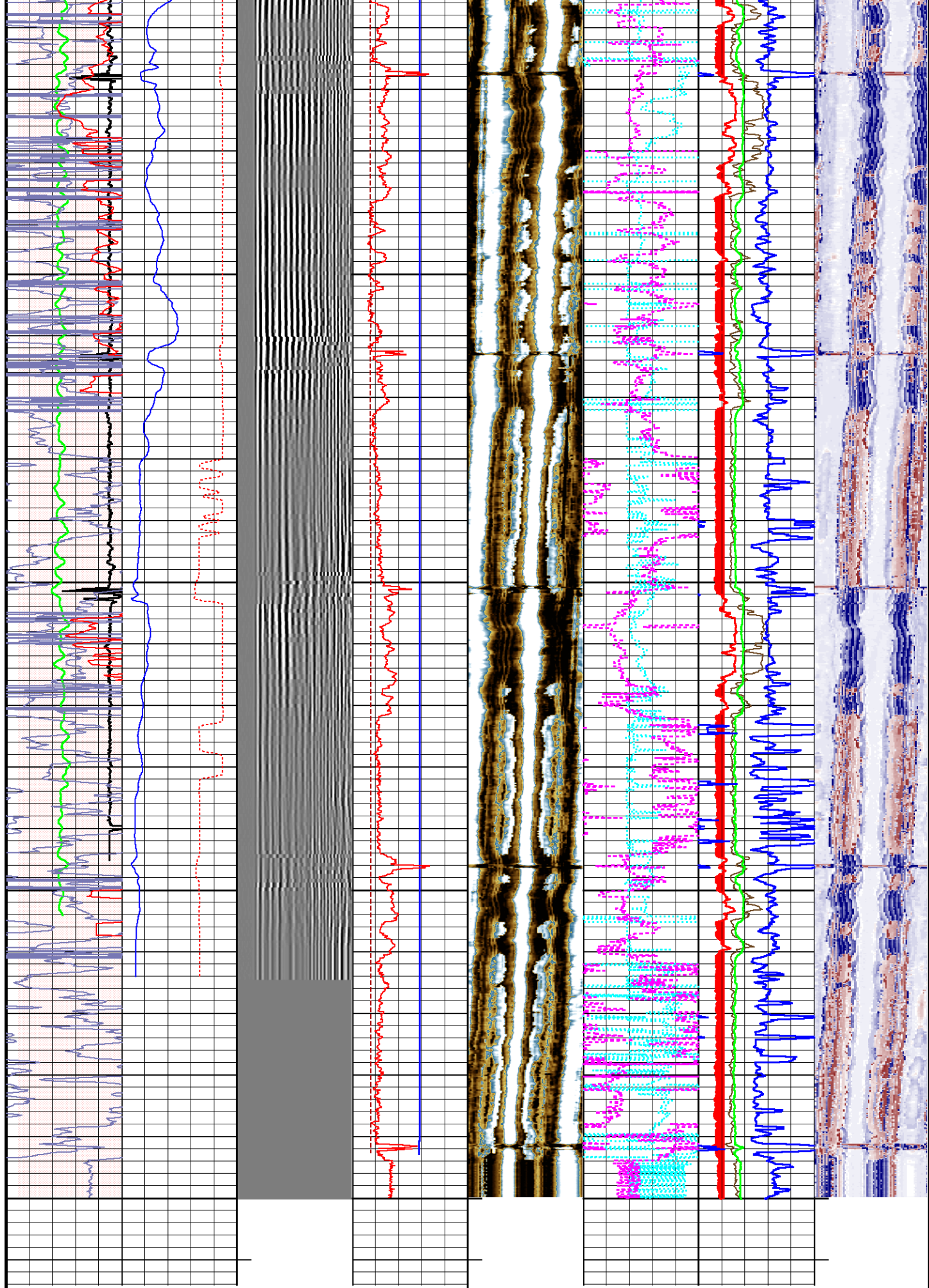
MUDT
UIS/E

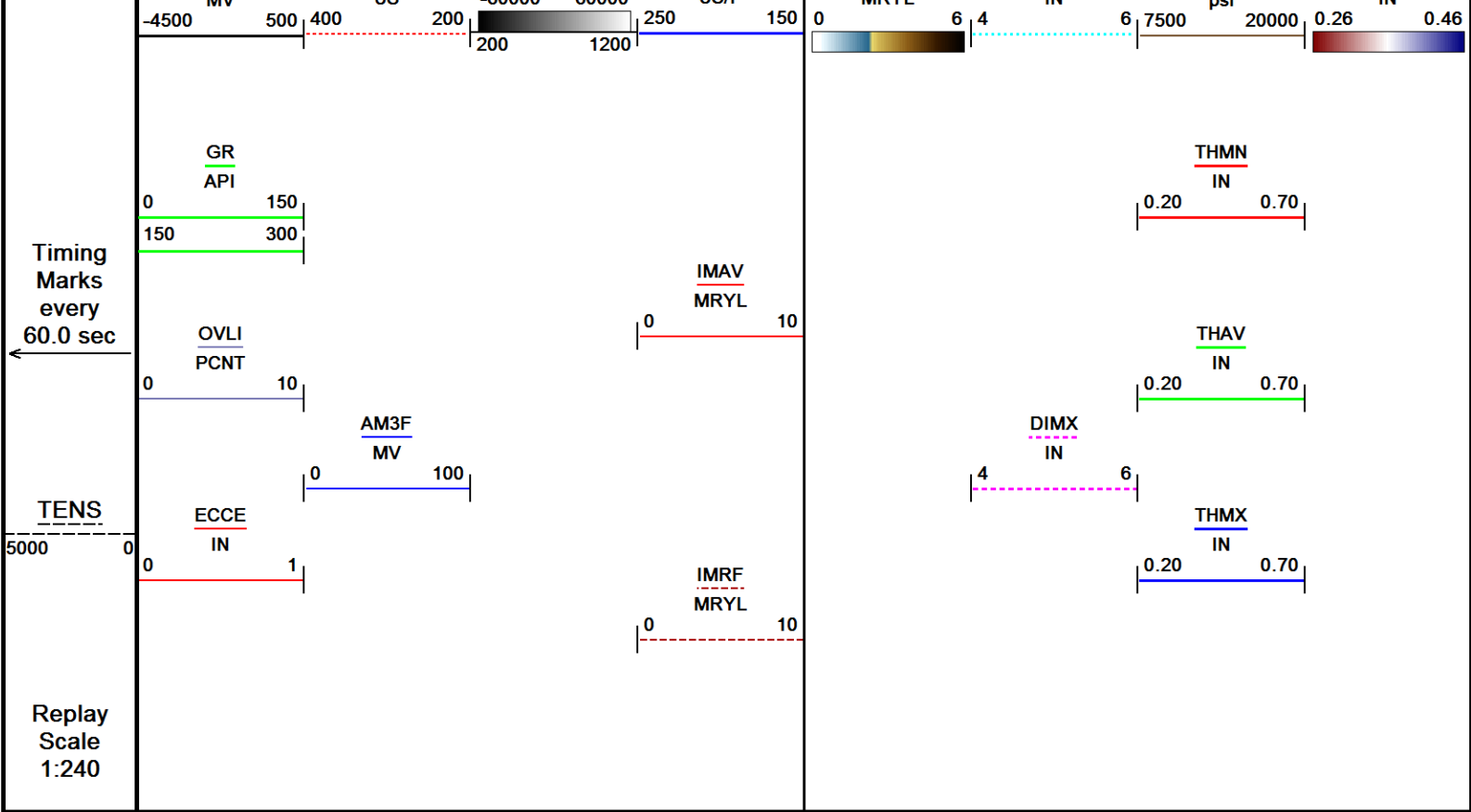
IMMP
MRYI

DIMN
IN

MNBU
psi

TKMP
IN





Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Users\le197426\Desktop\LOGS\BONANZA CREEK\ANTELOP...REPEAT PASS_001.dta
System Versions: Logged with 18.05.7089 Processed with 18.05.7089 Plotted with 18.05.7089

↑ REPEAT PASS ↑

SHOP AND FIELD CALIBRATIONS
C:\Users\le197426\Desktop\LOGS\BONANZA CREEK\ANTELOPE O34-19-18 MRLNB\MAIN PASS_002.dta

UGR Field survey cal UGR-JD 104

Field calibration on 25-APR-2019 09:23

Gamma Ray Field Survey calibration

Tool Type: UGR-JD Serial No: 104
Calibrator No: TH38

Background	Calibrator	Standard	Units
85.4	574.3	140.0	CPS

Delta Counts Per Sec: 488.9 CPS/API = 3.492

CBT Field calibration CBT-AA 101

Field calibration on 00-JAN-1988 00:00

Cement Bond Tool Amplitude Field calibration

Tool Type	Serial No	Free Pipe Depth
CBT-AA	101	

Sensor	Description	Standard(mv)	Measured(mv)
AMP 3 FT	100 % Bond	2.00	0.00

AMP 5 FT	Free Pipe	72.00	742.40
	100 % Bond	0.20	0.00
	Free Pipe	48.00	540.60

CBT Constants CBT-AA 101

Last Edited on 21-MAY-2019 17:36

Min Ampl 100% Bond	2.01 MV
Max Ampl 0% Bond	71.77 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 00-JAN-1988 00:00

Ultrasonic Radial Scanner Before Calibration

Tool Type USH-AB Serial No 125

	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 21-MAY-2019 17:36

*** 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	4.30
ZMud Cal Area Ratio	4.70

** 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	1616.00	5.50	36.00	1.50	1.50	0.36	1.00
0.00	11811.00	5.50	20.00	1.50	1.50	0.36	1.00

** Constants **

Thickness calculated from	Tool
Radius offset	-0.51

Radius Offset	0.01
Mud slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.65 MRYL
Z_mud Outside	1.75 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:\Users\le197426\Desktop\LOGS\BONANZA CREEK\ANTELOPE O34-19-18 MRLNB\MAIN PASS_002.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

Casing Collar Locator, 55 pin

CCL-WA 198 LG: 3.01 ft WT: 19.8 lb OD: 2.756 in

Communication Cartridge 55pin 3-3/8in

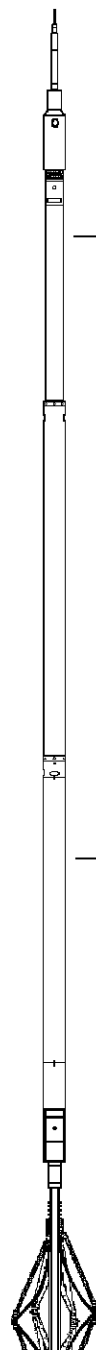
WCC-DA 119 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

Gamma Ray

UGR-JD 104 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 101 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 222 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 218 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

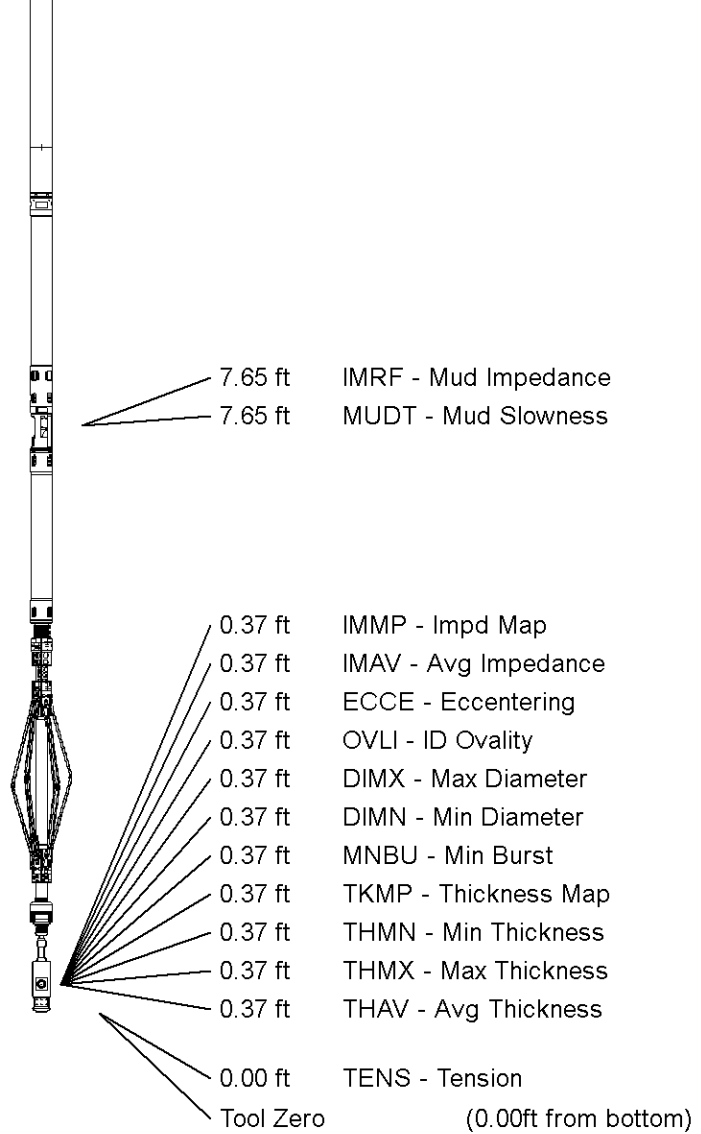
URS Electronics Cartridge

UCC-AA 192 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section
USS-AB 192 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: 58.06 ft Weight: 954.6 lb



All measurements relative to tool zero.

COMPANY	BONANZA CREEK ENERGY
WELL	ANTELOPE O34-19-18 MRLNB
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	UNITED STATES / COLORADO

Elevation Kelly Bushing	4675	feet	Bottom Log Interval	6300.00	feet
Elevation Drill Floor		feet	Depth Driller		feet
Elevation Ground Level	4658	feet	Depth Logger	6300.00	feet



Weatherford®

SECUREVIEW
ULTRAVIEW / BONDVIEW
LOG