										SECUREVIEW											
Weatherford®										ULTRAVIEW / BONDVIEW											
LOG																					
COMPANY										BONANZA CREEK ENERGY											
WELL										NORTH PLATTE K21-O24-28 HNB											
FIELD										WATTENBERG											
PROVINCE/COUNTY										WELD											
COUNTRY/STATE										USA / COLORADO											
LOCATION										271' FNL 428' FEL											
SEC 28		TWP 5N		RGE 63W		Other Services CALVIEW															
Latitude		Longitude																			
API Number		05-123-46915																			
Permanent Datum GL, Elevation 4548 feet										Elevations:											
Log Measured From KB, 17.00 feet above Permanent Datum										KB 4565.00											
Drilling Measured From KB										DF 4565.00											
										GL 4548.00											
Date		01-NOV-2018		PERFORATION RECORD																	
Run Number		ONE		Shot		Number		Depth From		Depth To											
Service Order		18200-228234708		Density		of Shots		feet		feet											
Type Log		URS/CBT																			
Depth Driller		12169.00		feet																	
Depth Logger		6555.00		feet																	
Top Log Interval		0.00		feet																	
Bottom Log Interval		6555.00		feet																	
Hole Fluid Type		WATER																			
Hole Fluid Level		58.00		feet																	
Restriction ID		4.892		inches		Gun Type															
Max Recorded Temp		188.00		deg F		Gun Size															
Well Head Pressure		0.00		psi		CASING / TUBING RECORD															
Well Head Equipment		ROA		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		1639.00											
Unit		14122		5.500		17.00		0.00		12159.00											
Equipment Name		WSS-E																			
Base		CASPER																			
Recorded By		A LITTLE																			
Witnessed By		K DODGE																			

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	J-55	LTC	9.625	0.00	1639.00	36.00
PRODUCTION	P-110	LTC	5.500	0.00	12159.00	17.00

REMARKS
LOG CORRELATED TO RIG KB @ 17' ABOVE GL
STANDARD FREE PIPE AMPLITUDE IN 5.5" 17# CASING IS 72mV
BURST PRESSURE CALCULATED USING 5.5" 17# P-110 CASING

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.



MAIN PASS



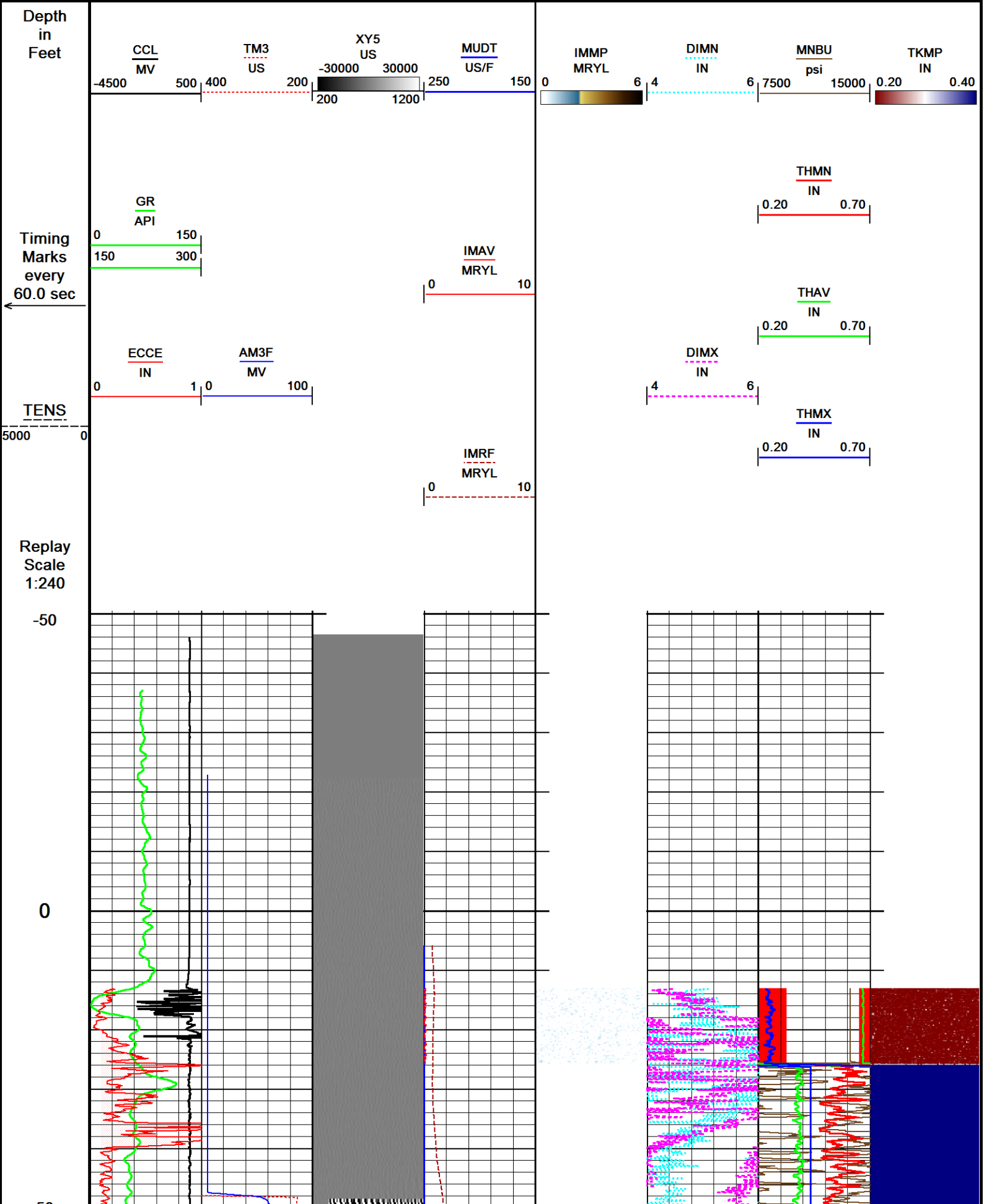
Depth Based Data - Maximum Sampling Increment 2.5cm

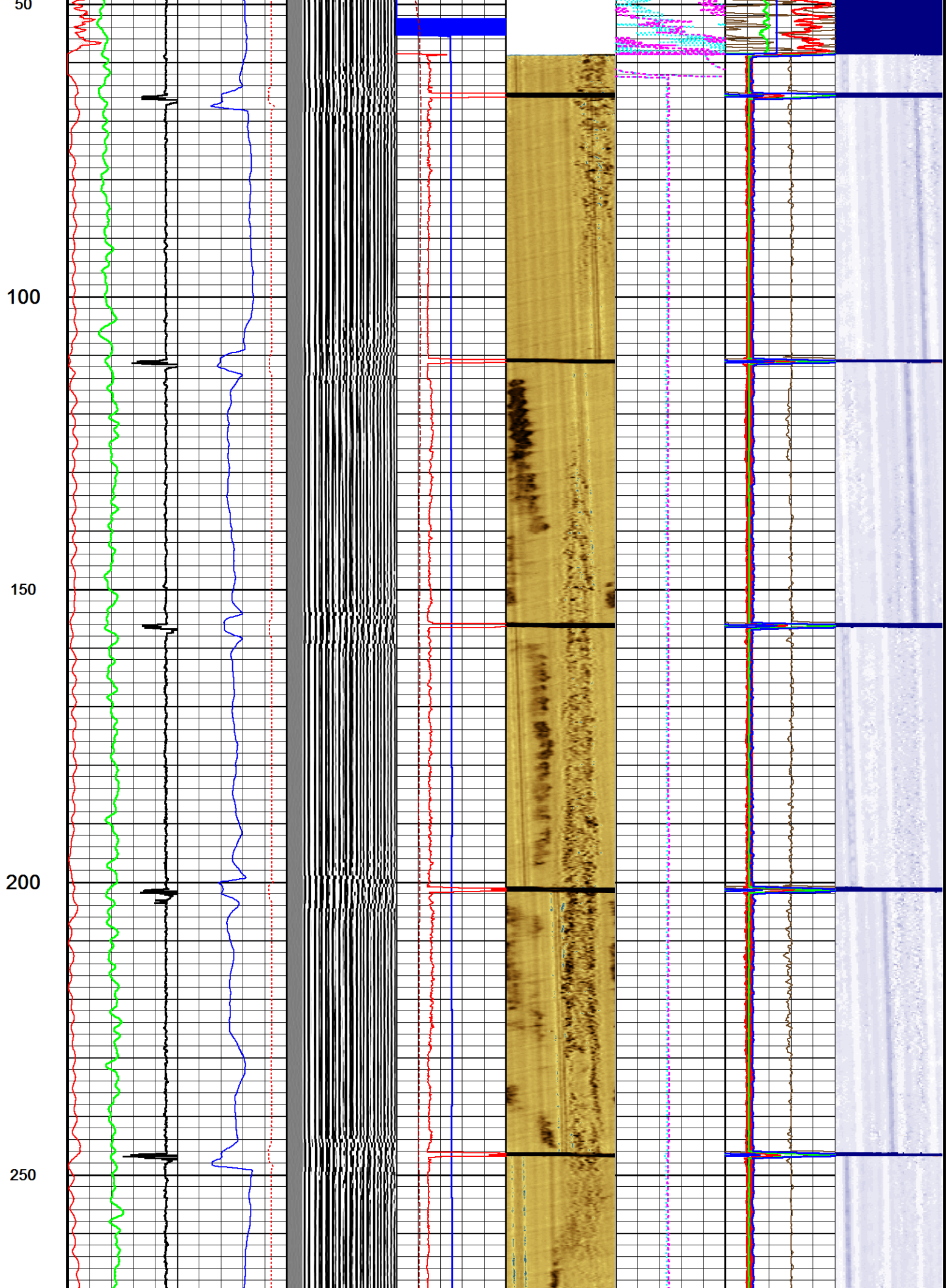
Plotted on 01-NOV-2018 22:38

Filename: C:\LOGS\BONANZA CREEK\9 WELL PAD\11-1-2018\NORTH PLAT...\MAIN PASS_002.dta

Recorded on 01-NOV-2018 22:07

System Versions: Logged with 18.03.8633 Processed with 18.03.8633 Plotted with 18.03.8633



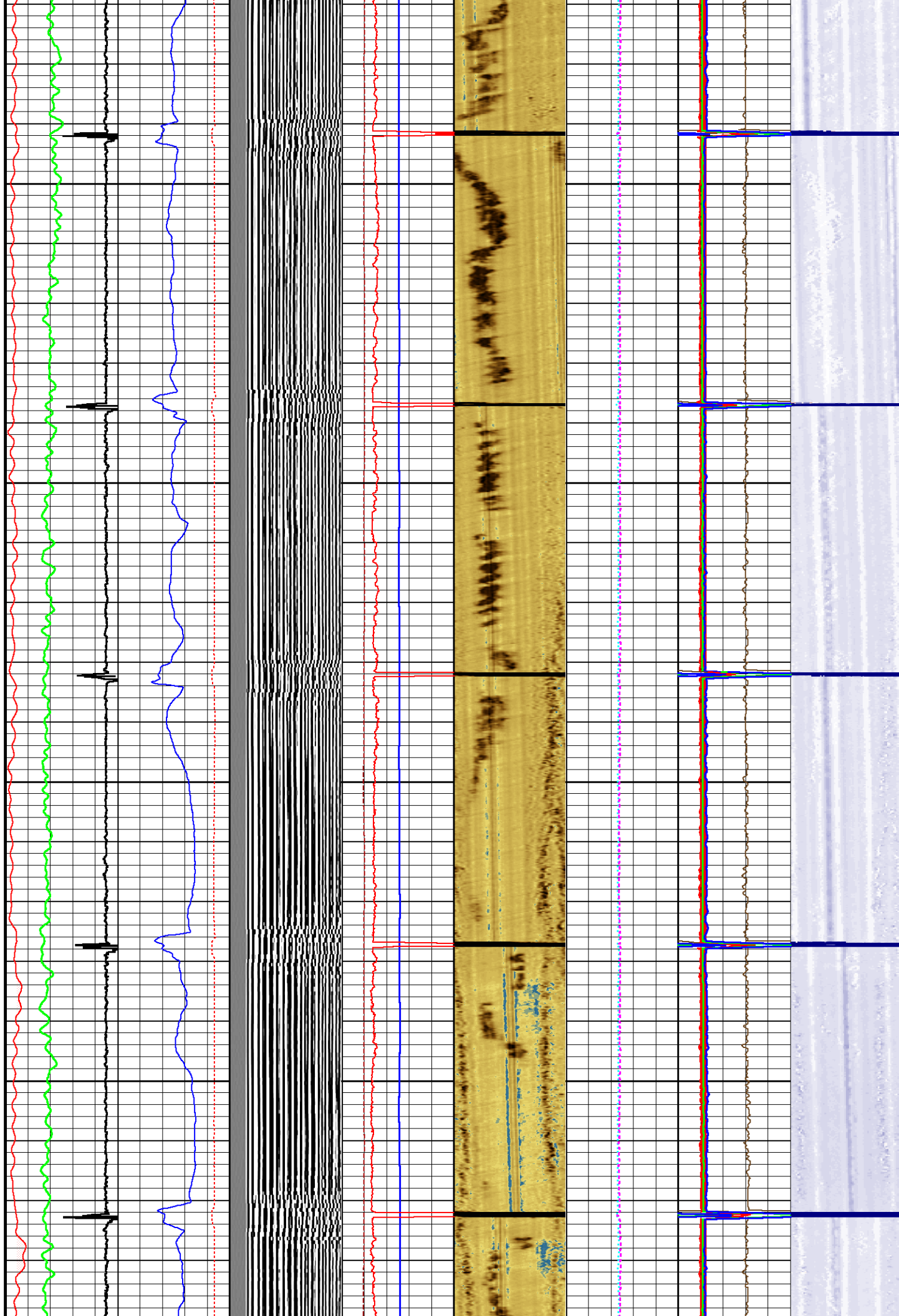


300

350

400

450



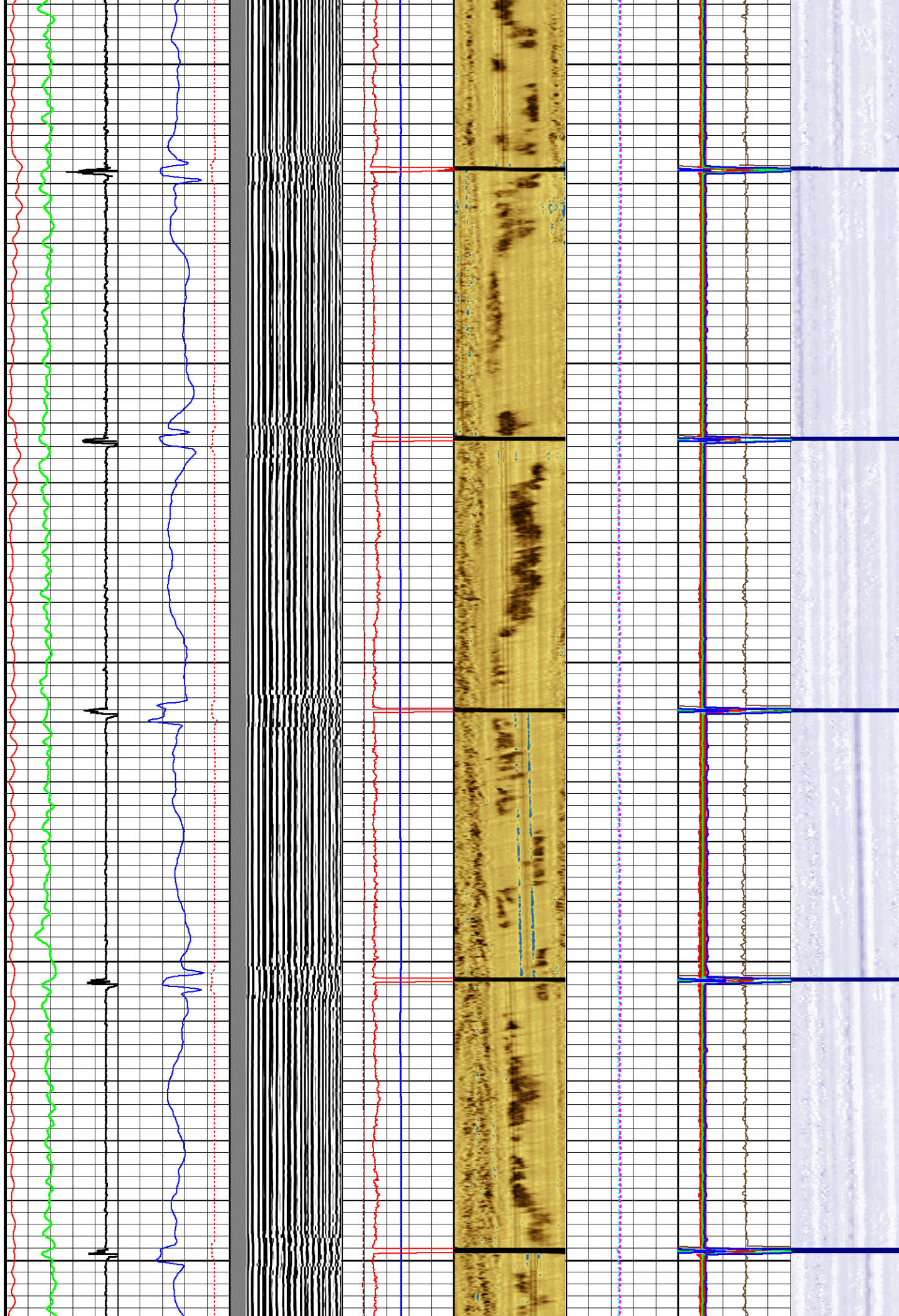
500

550

600

650

700

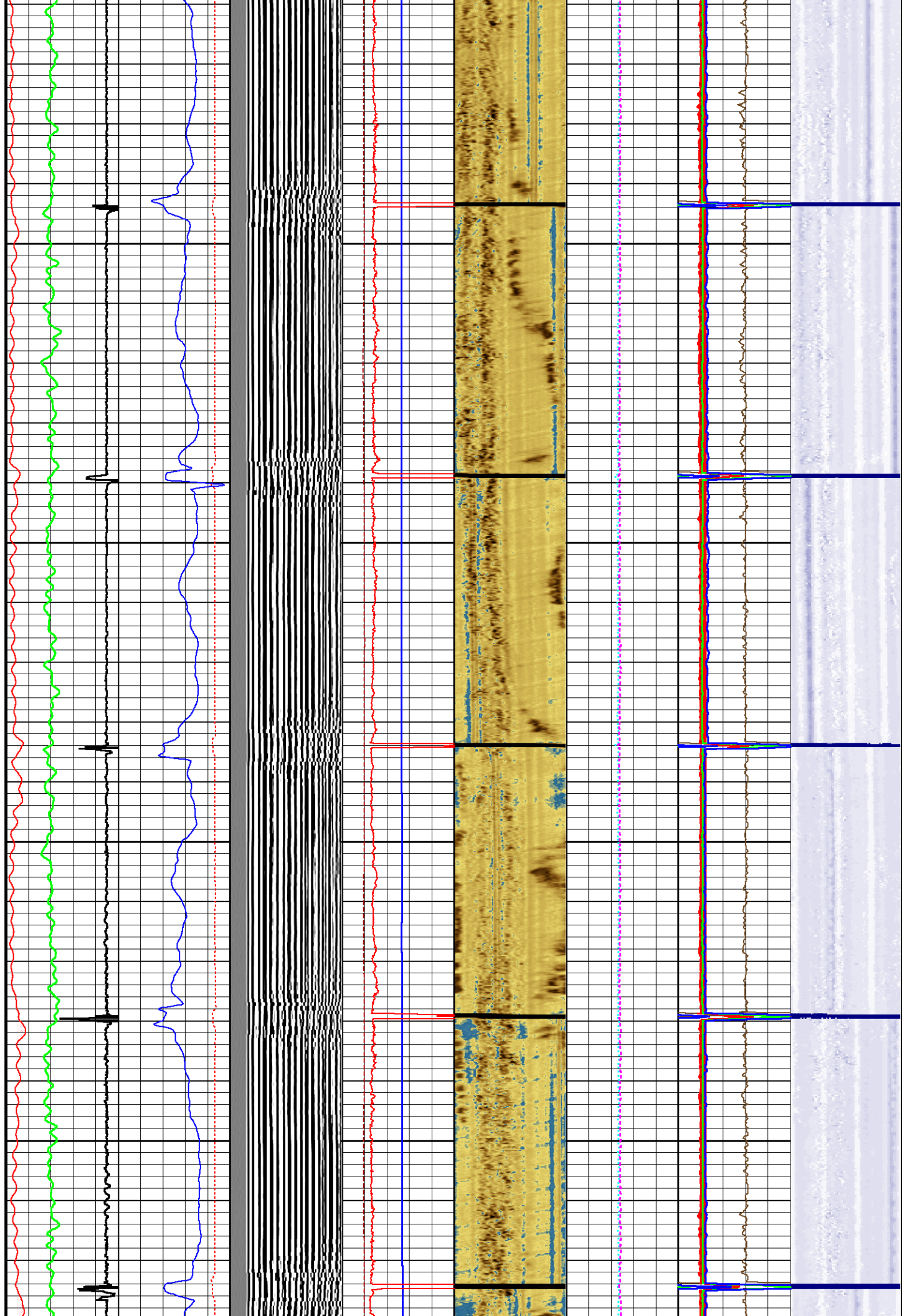


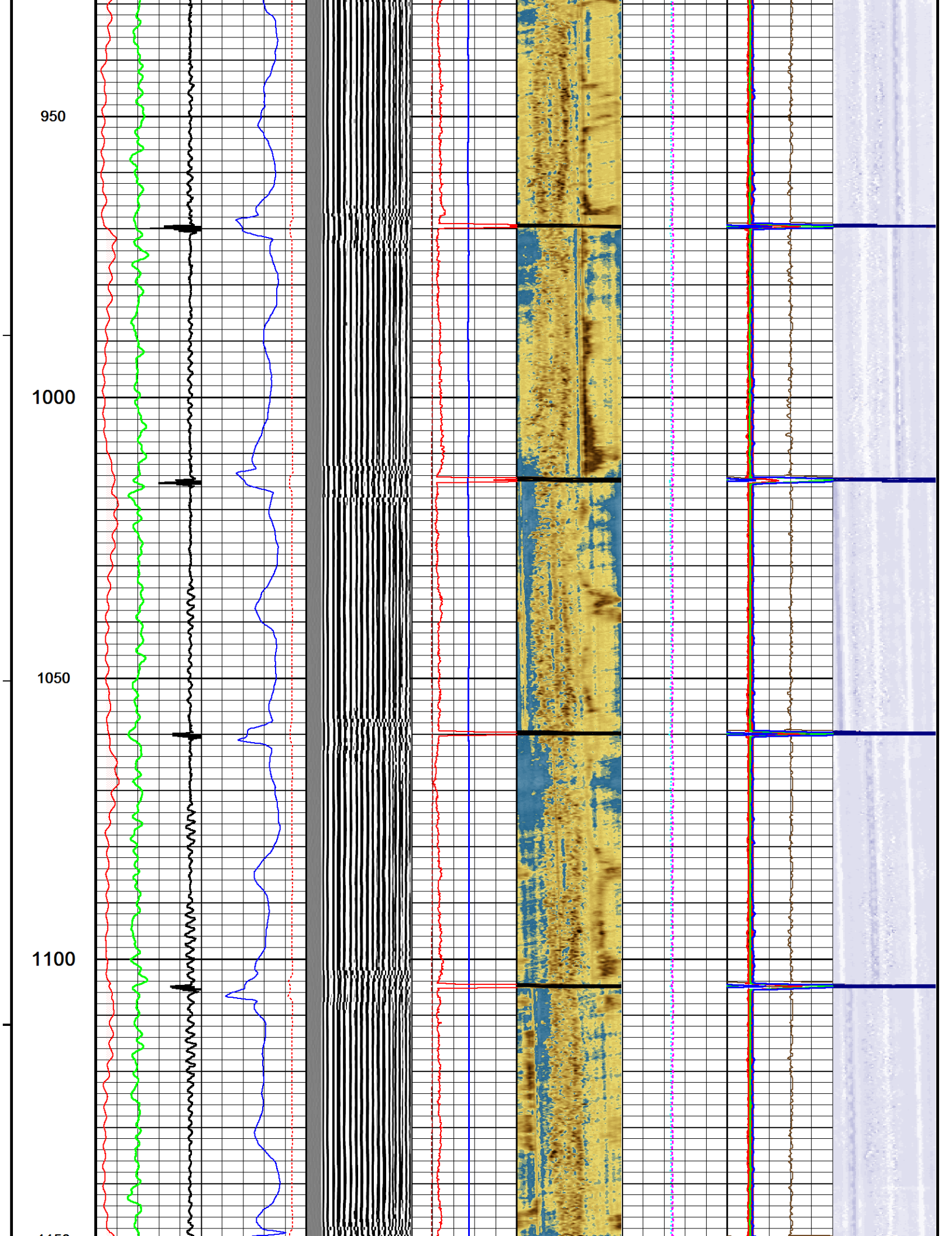
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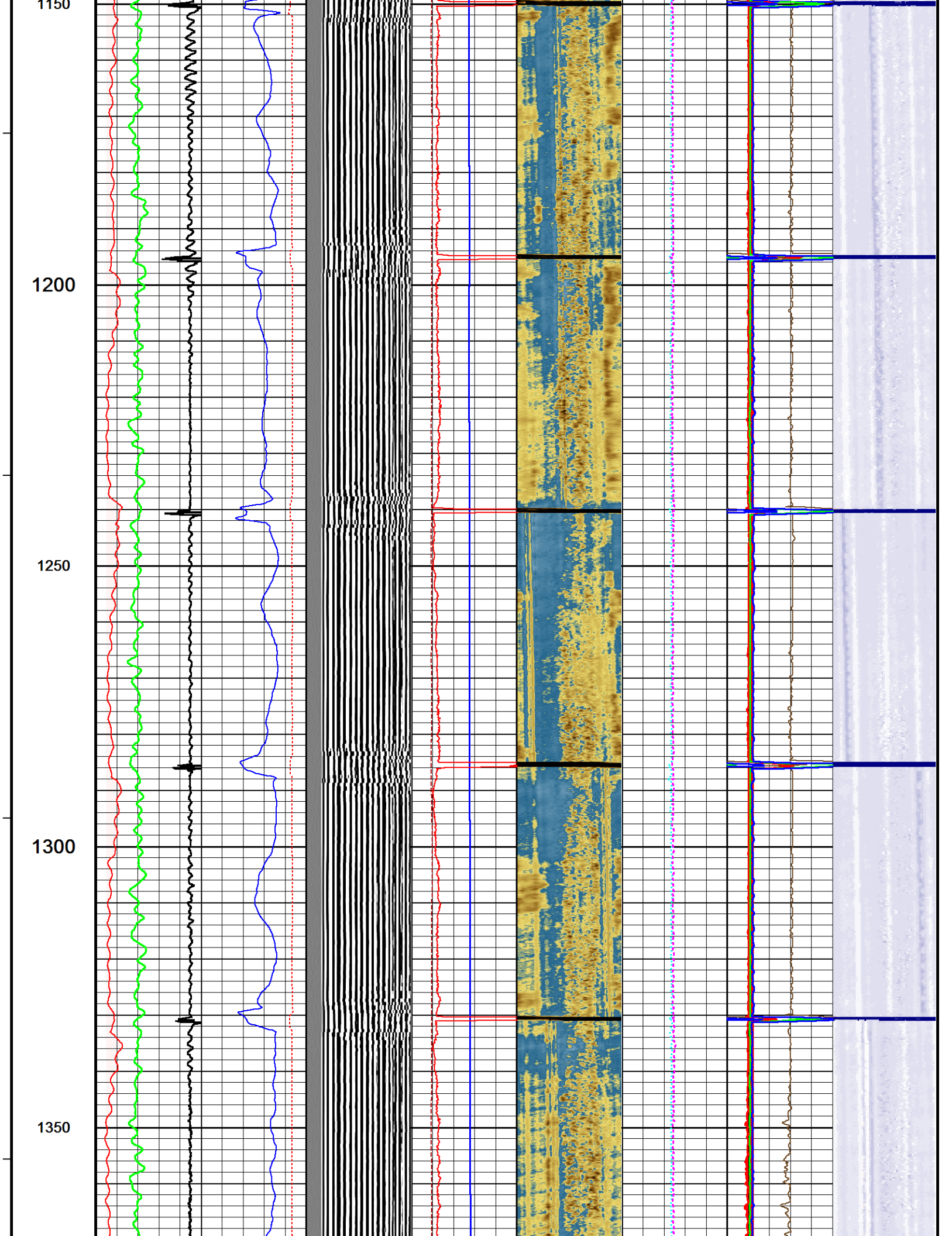
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850

900





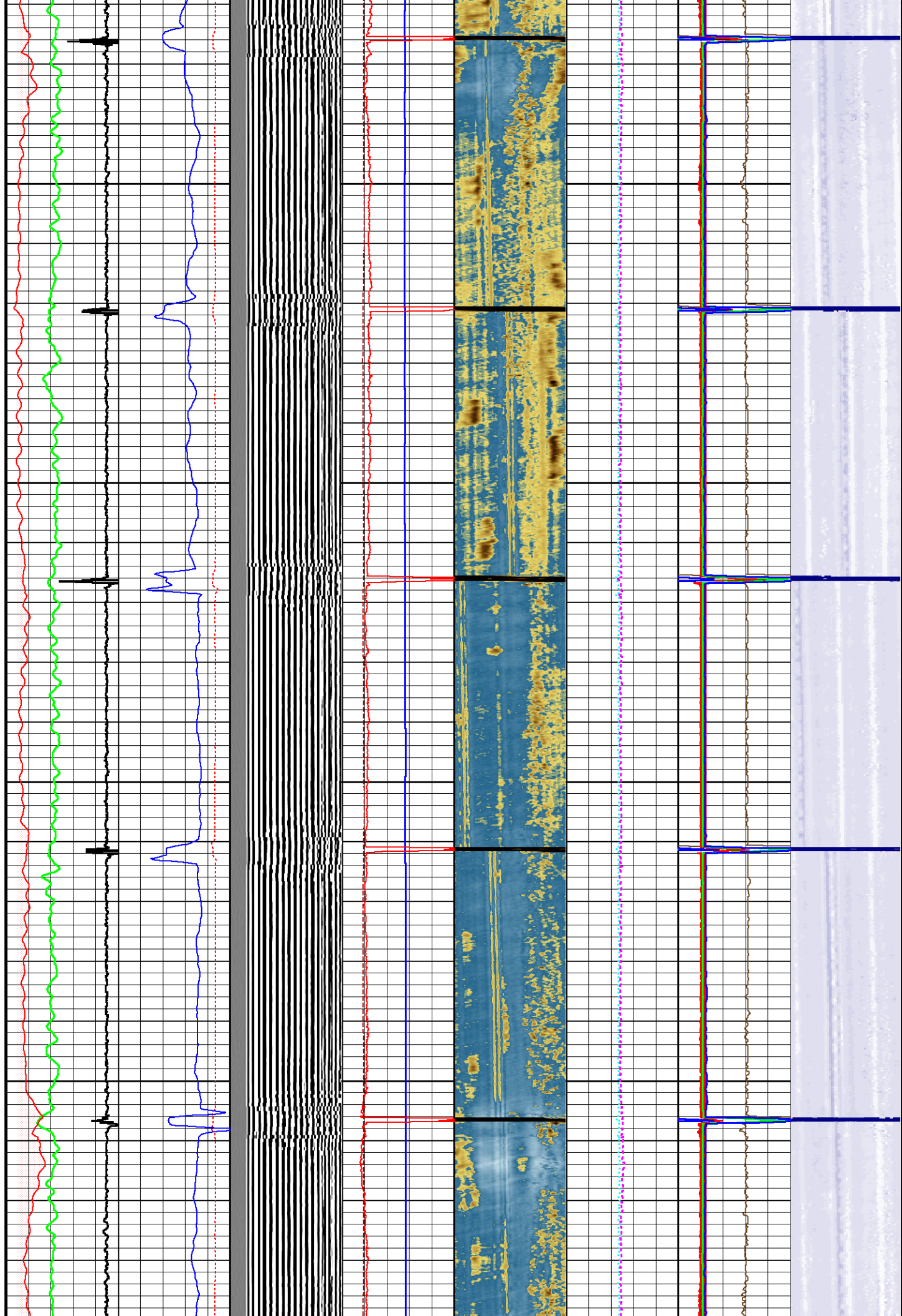


1400

1450

1500

1550



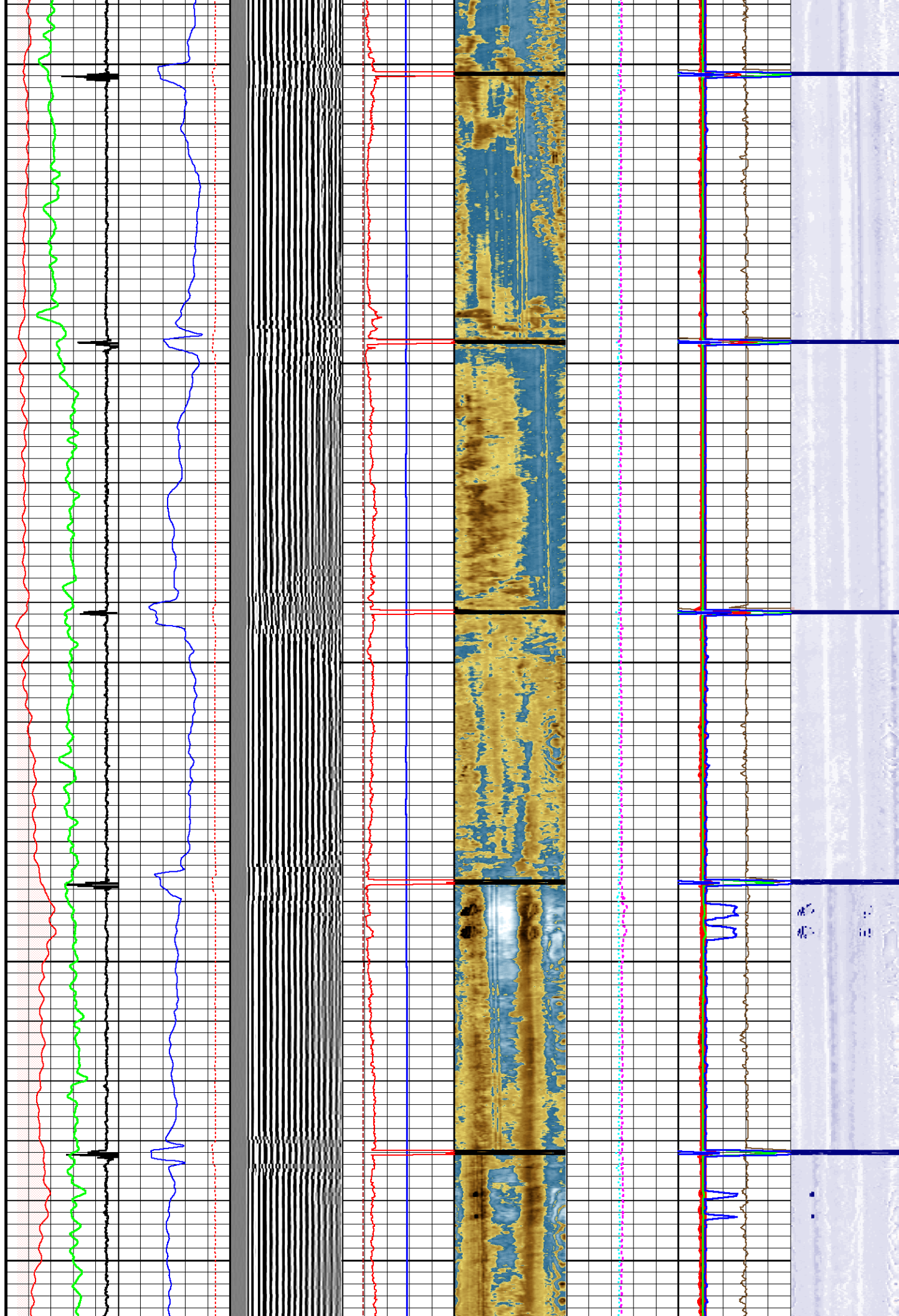
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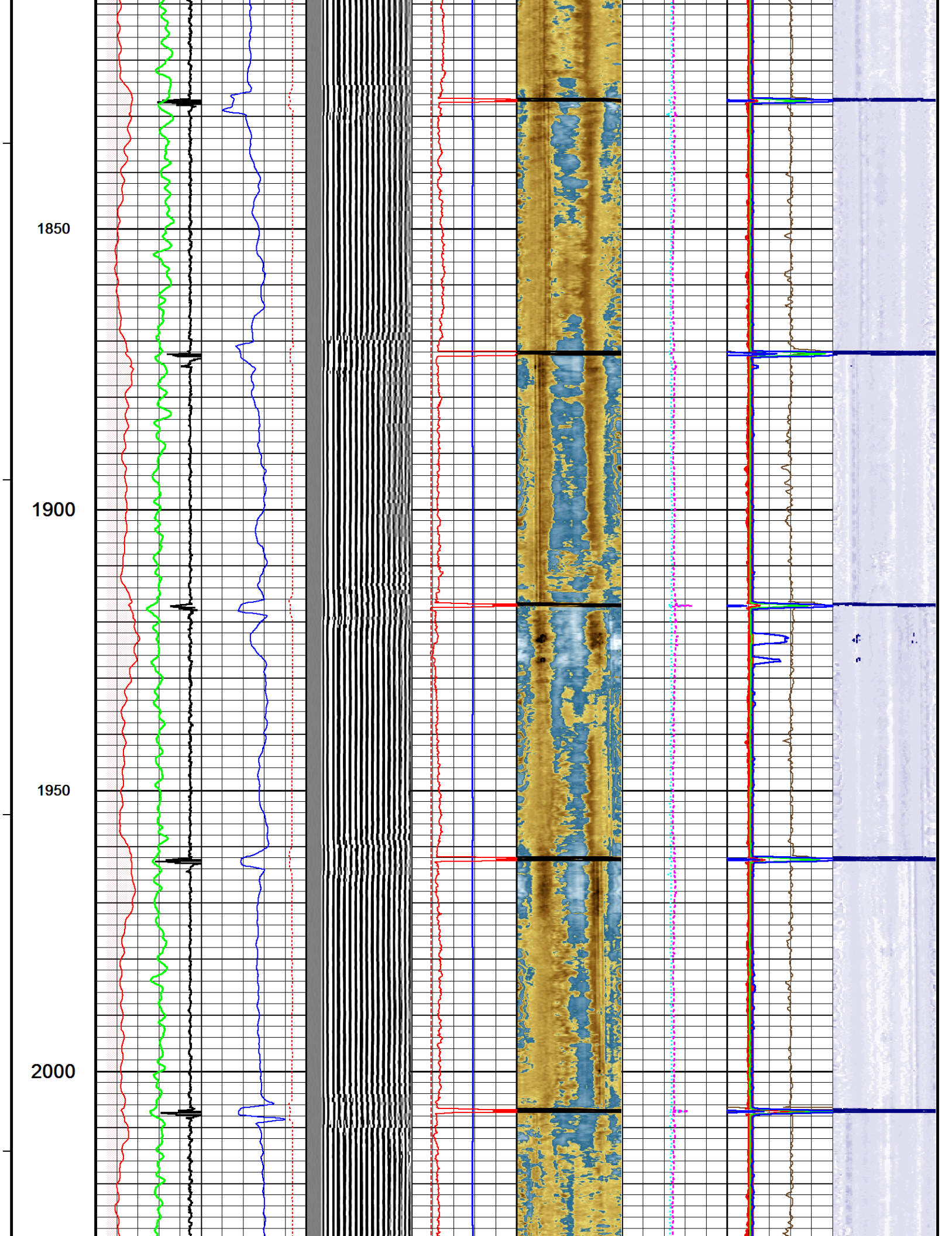
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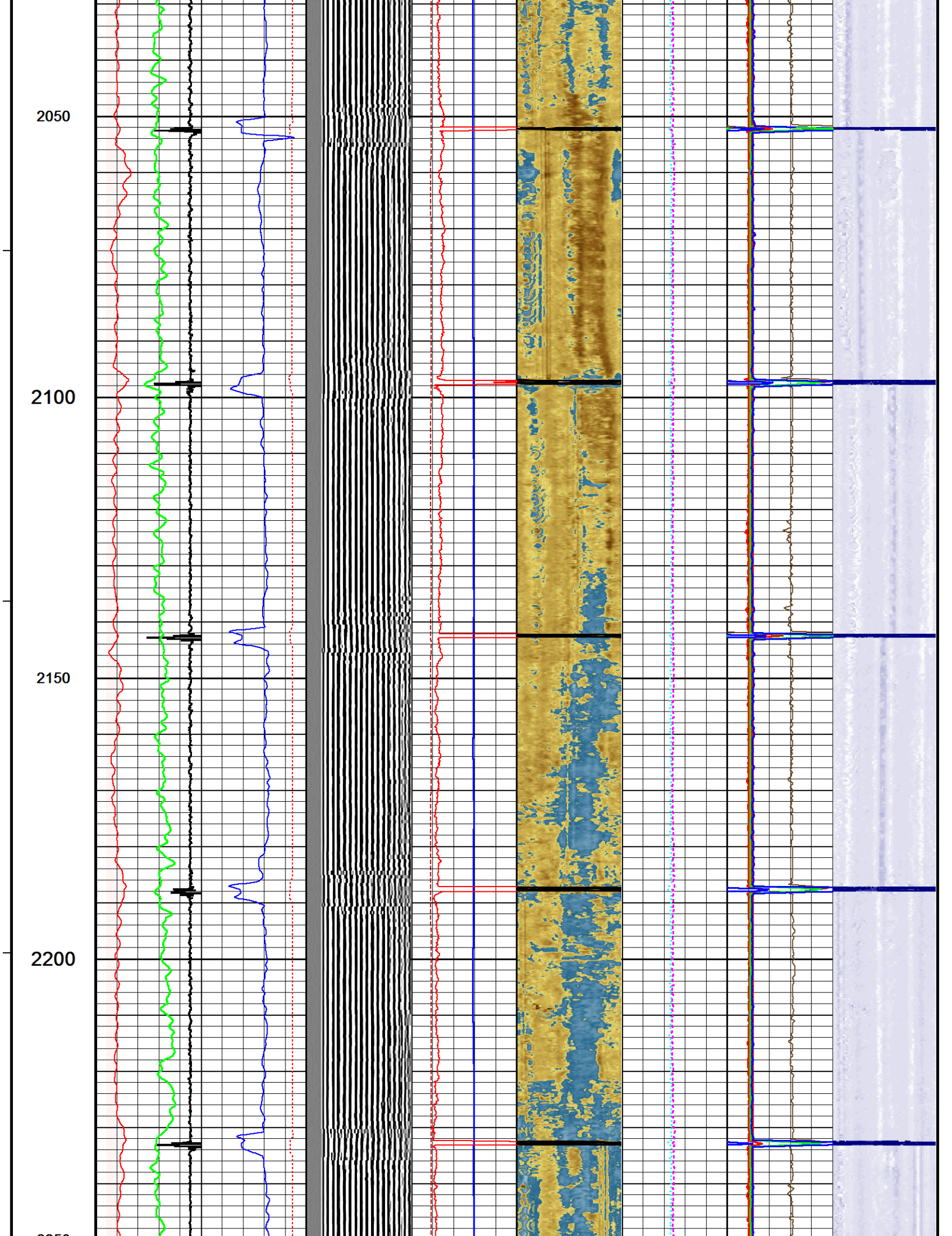
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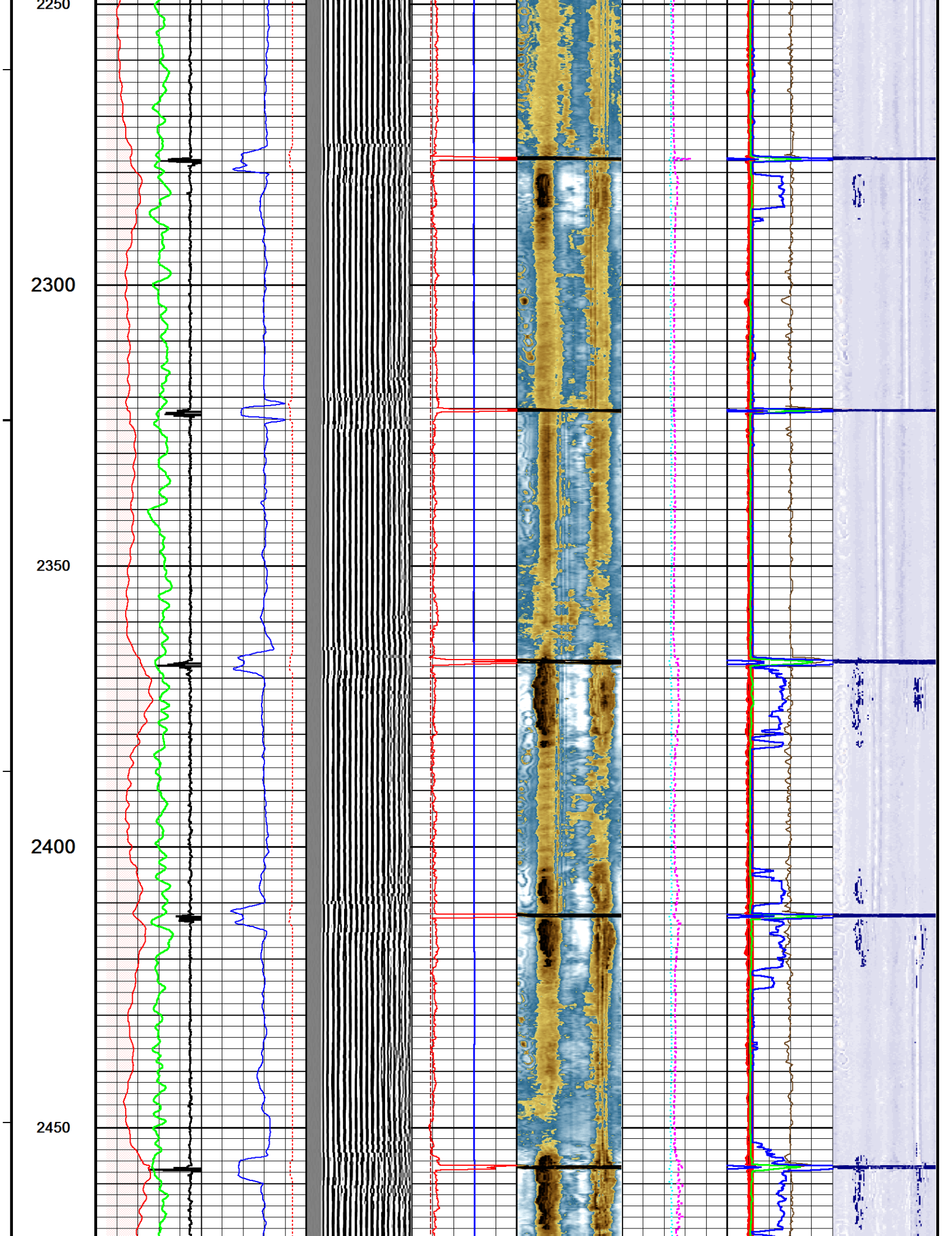
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1800







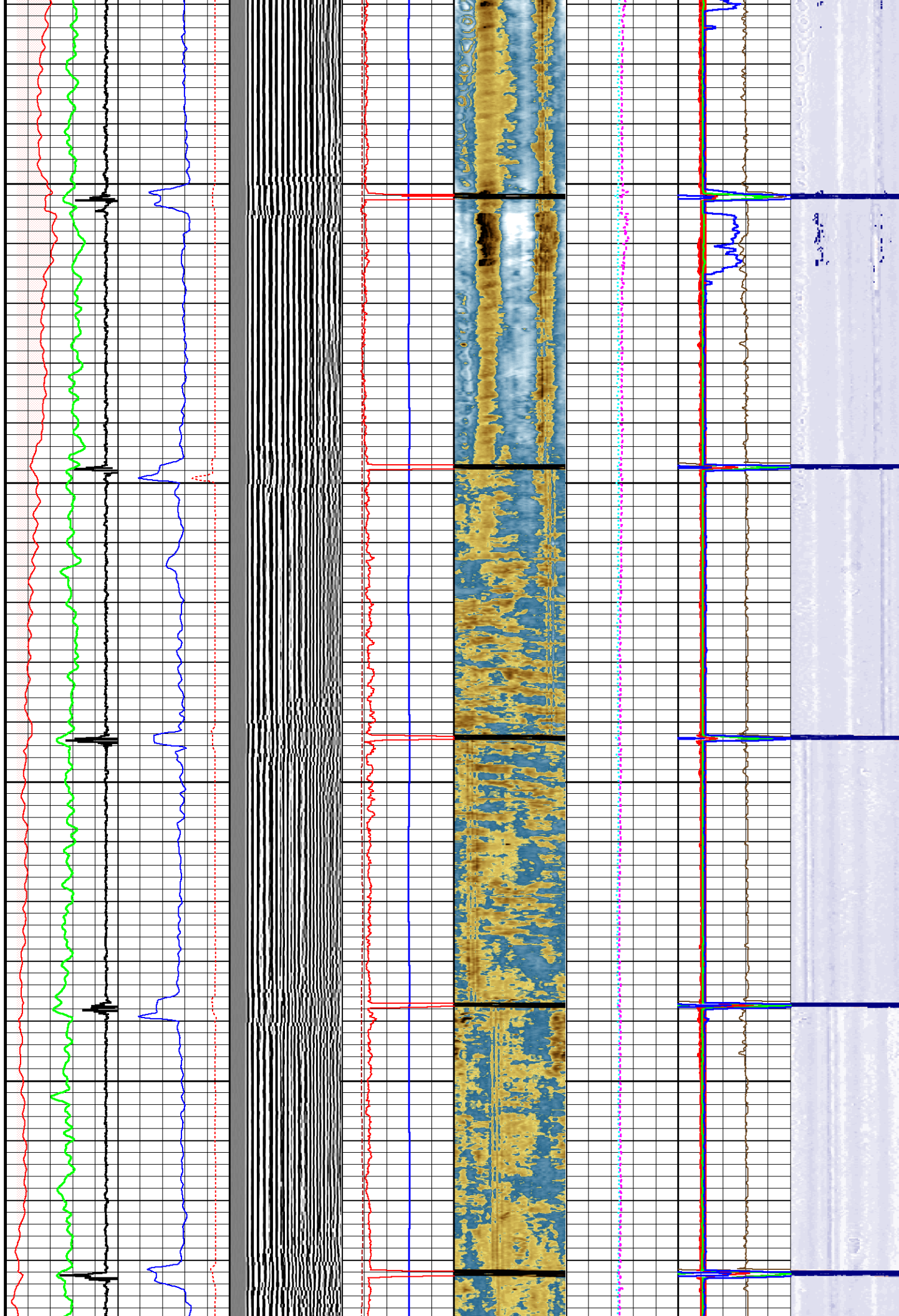


2500

2550

2600

2650



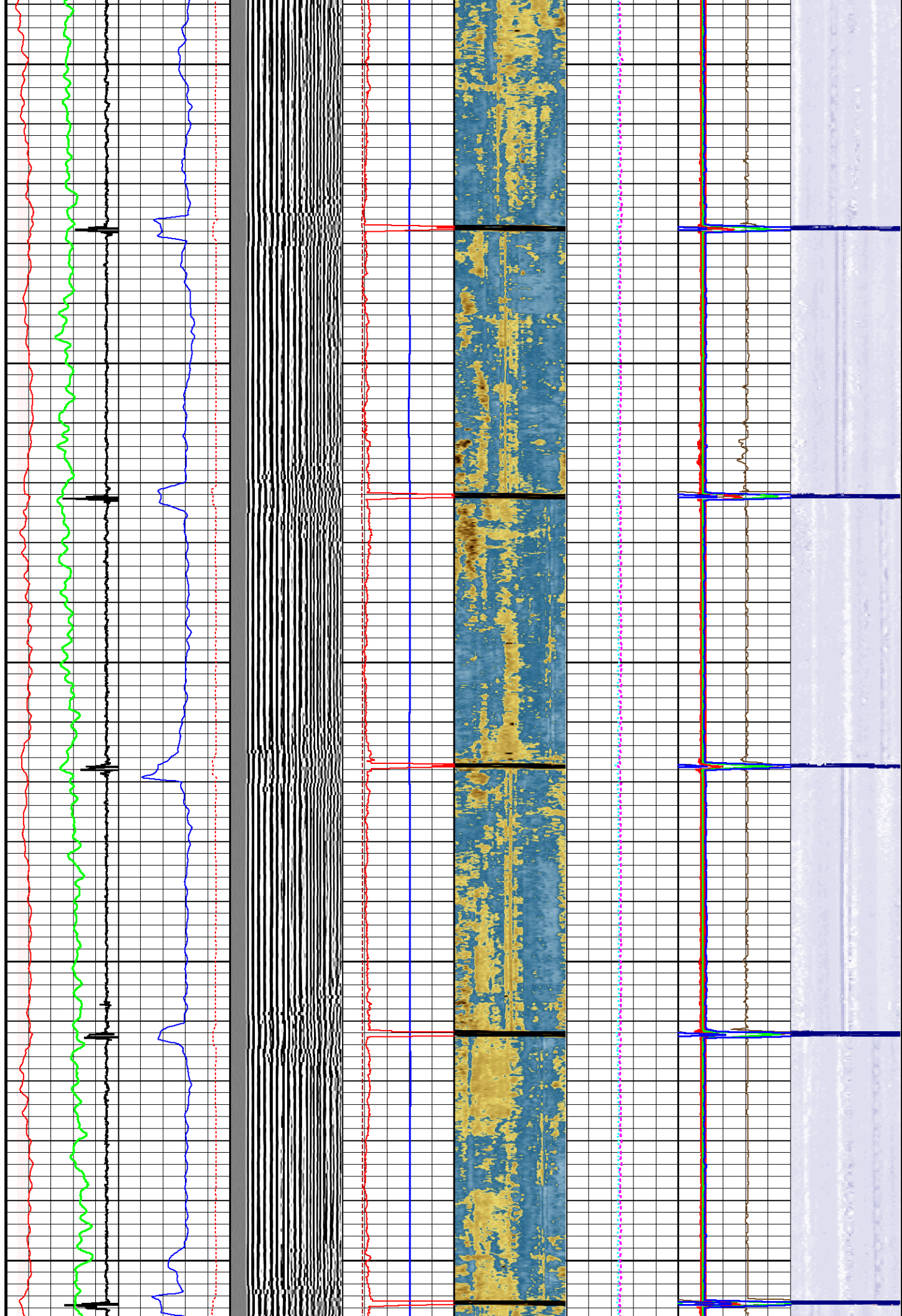
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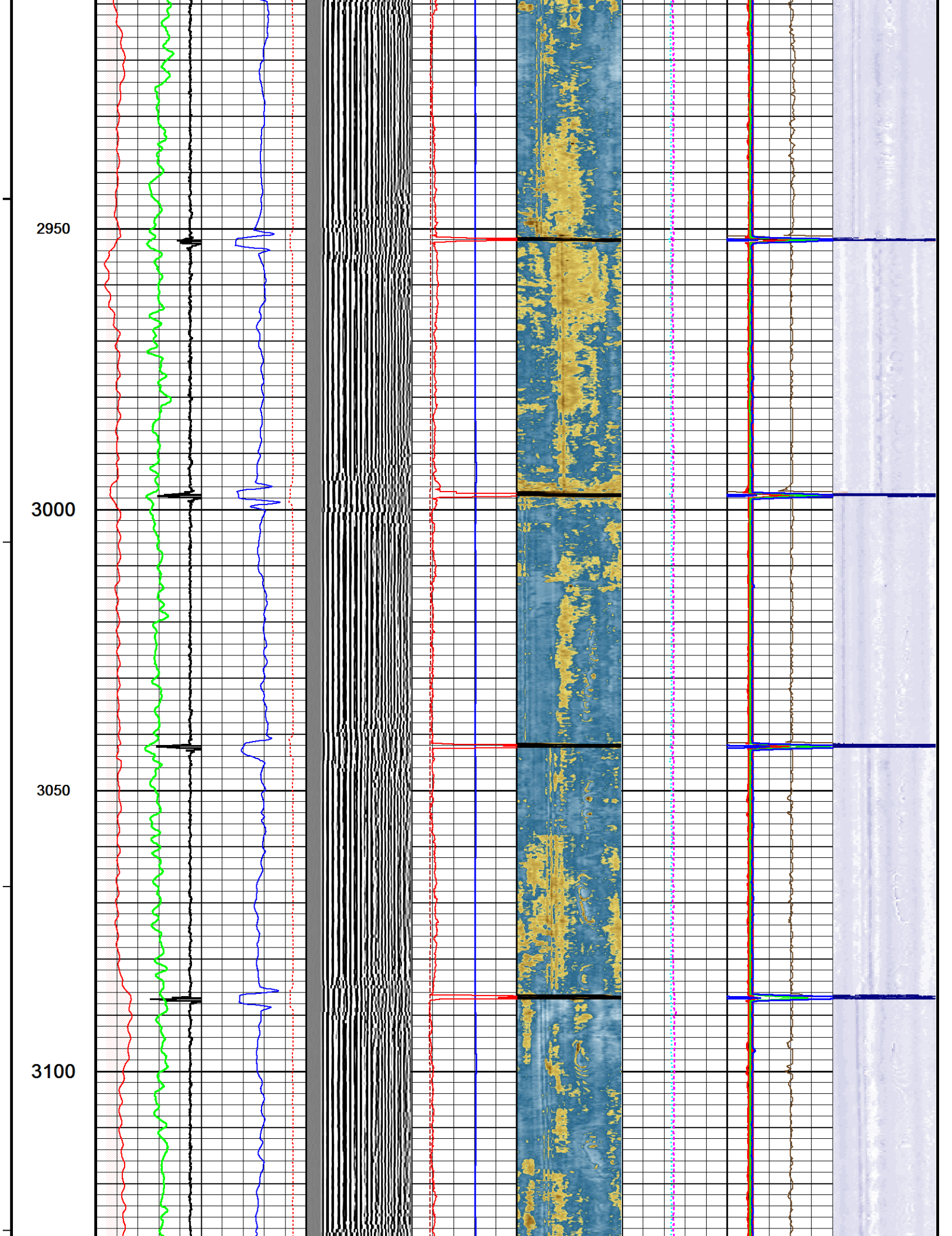
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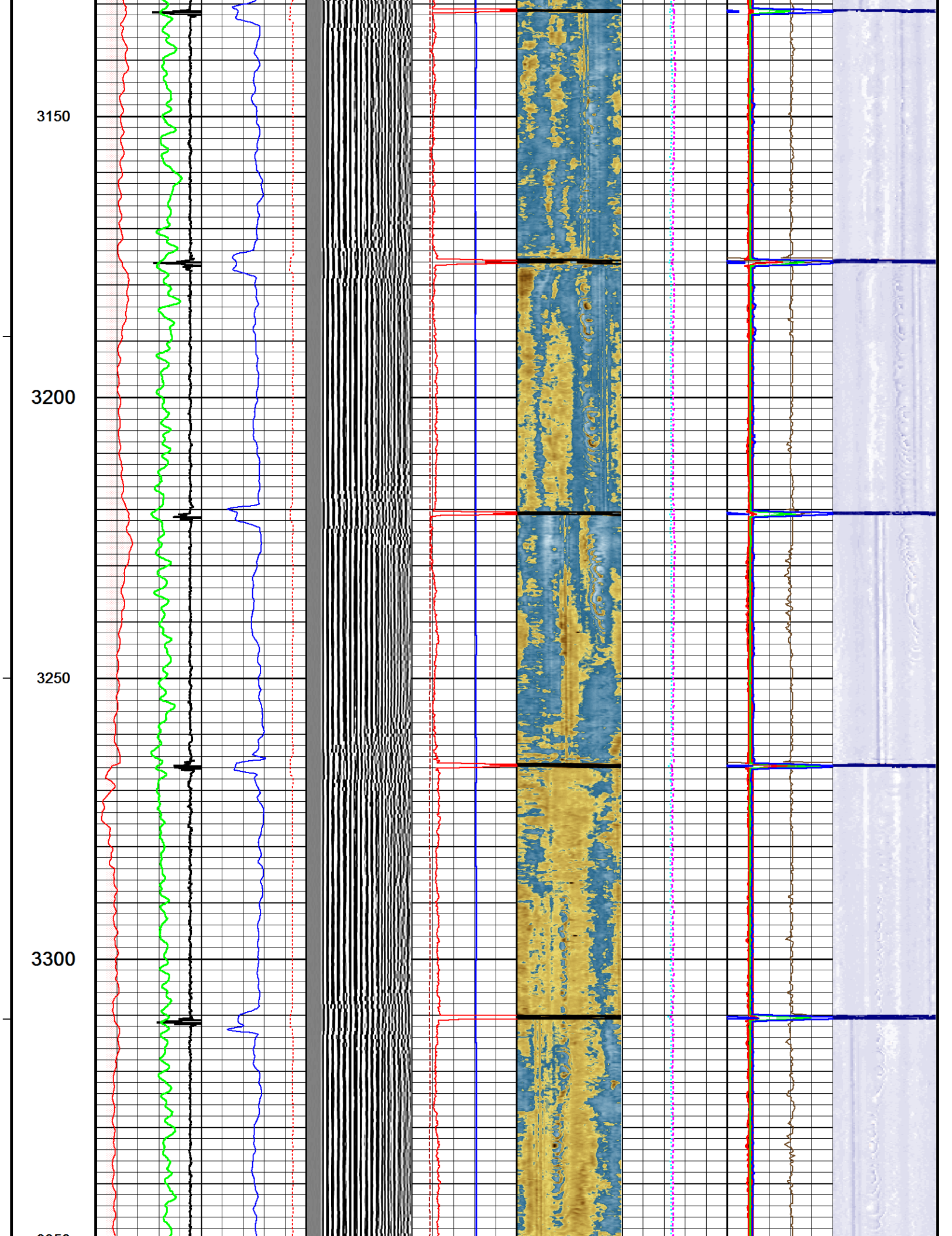
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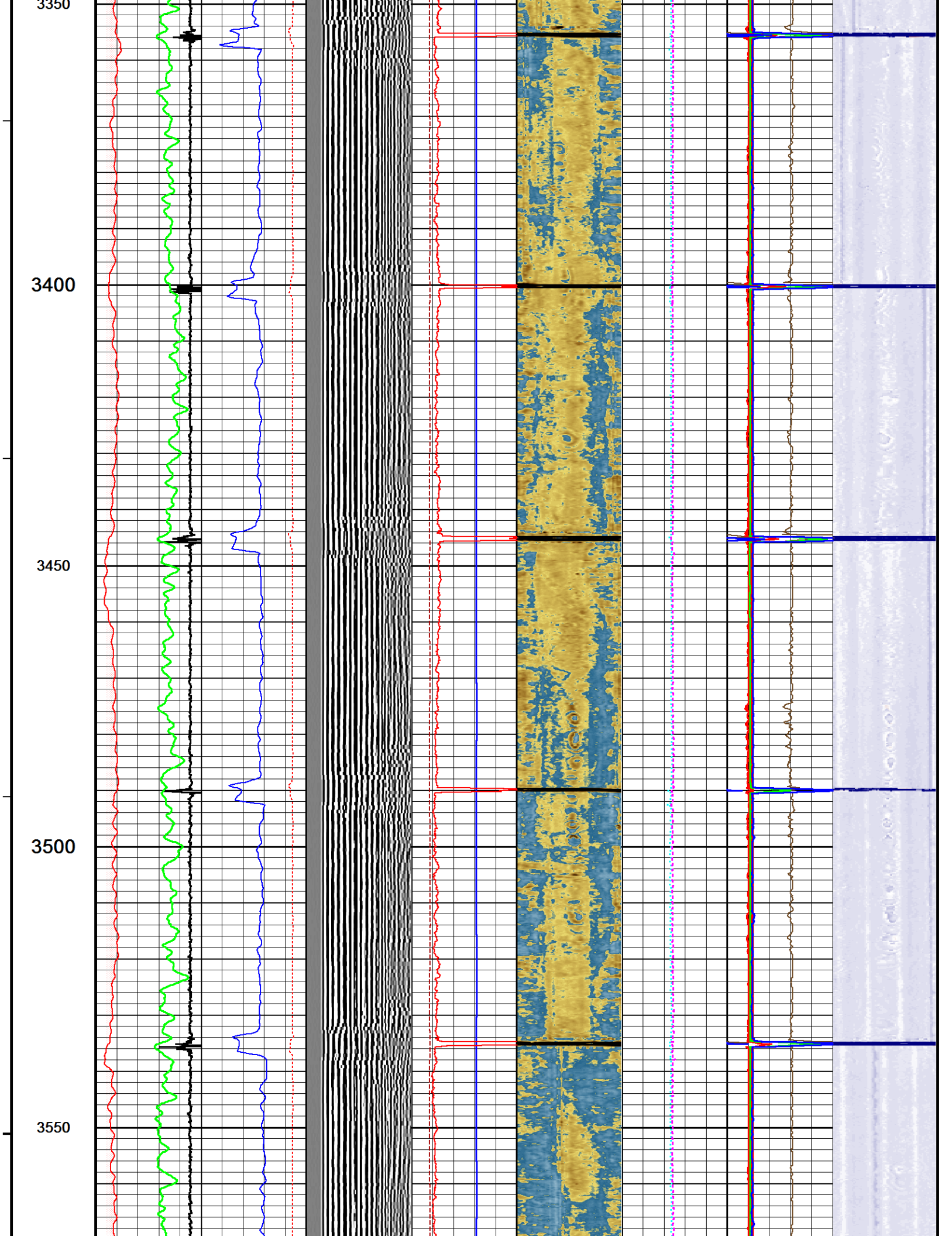
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2900







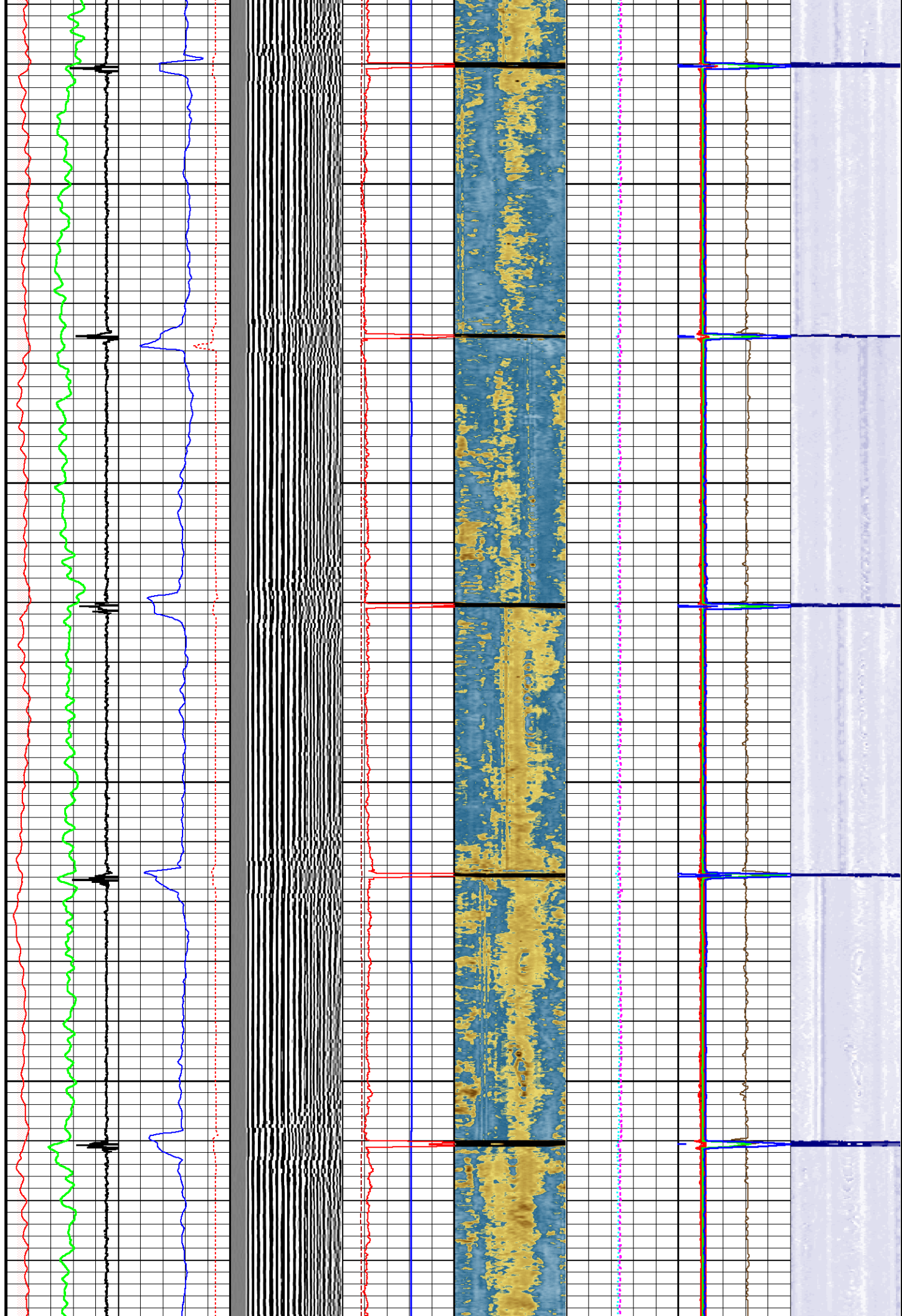


3600

3650

3700

3750



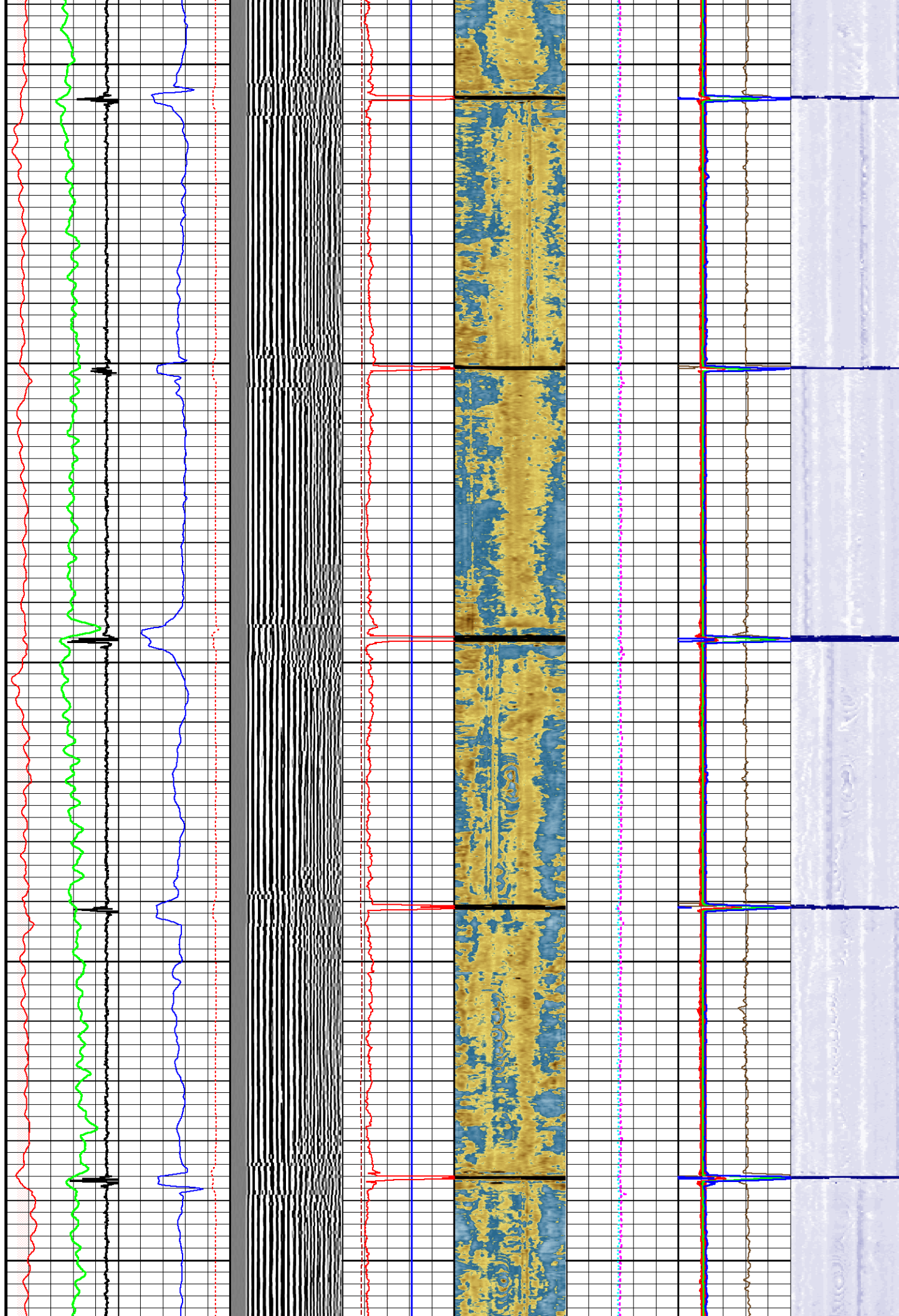
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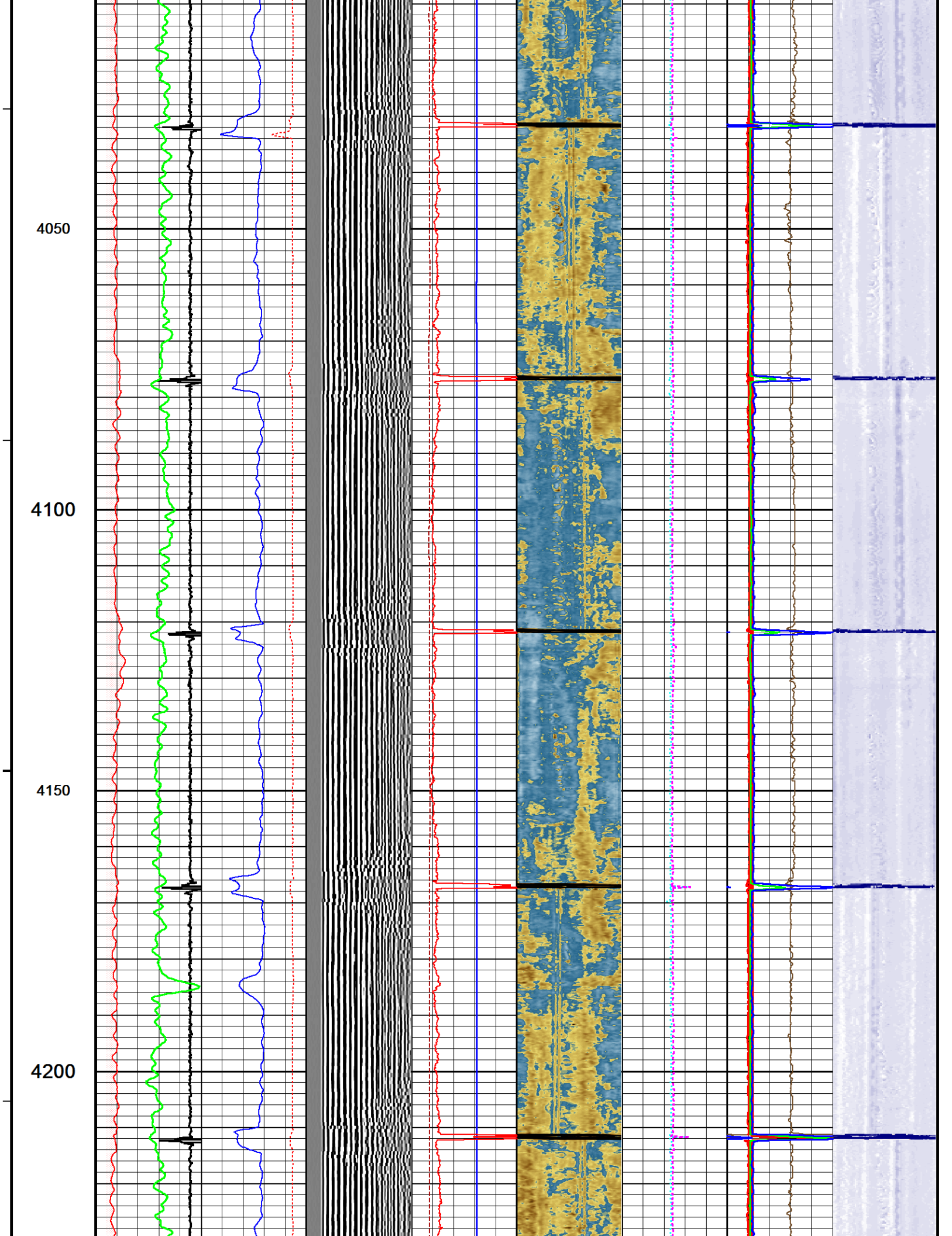
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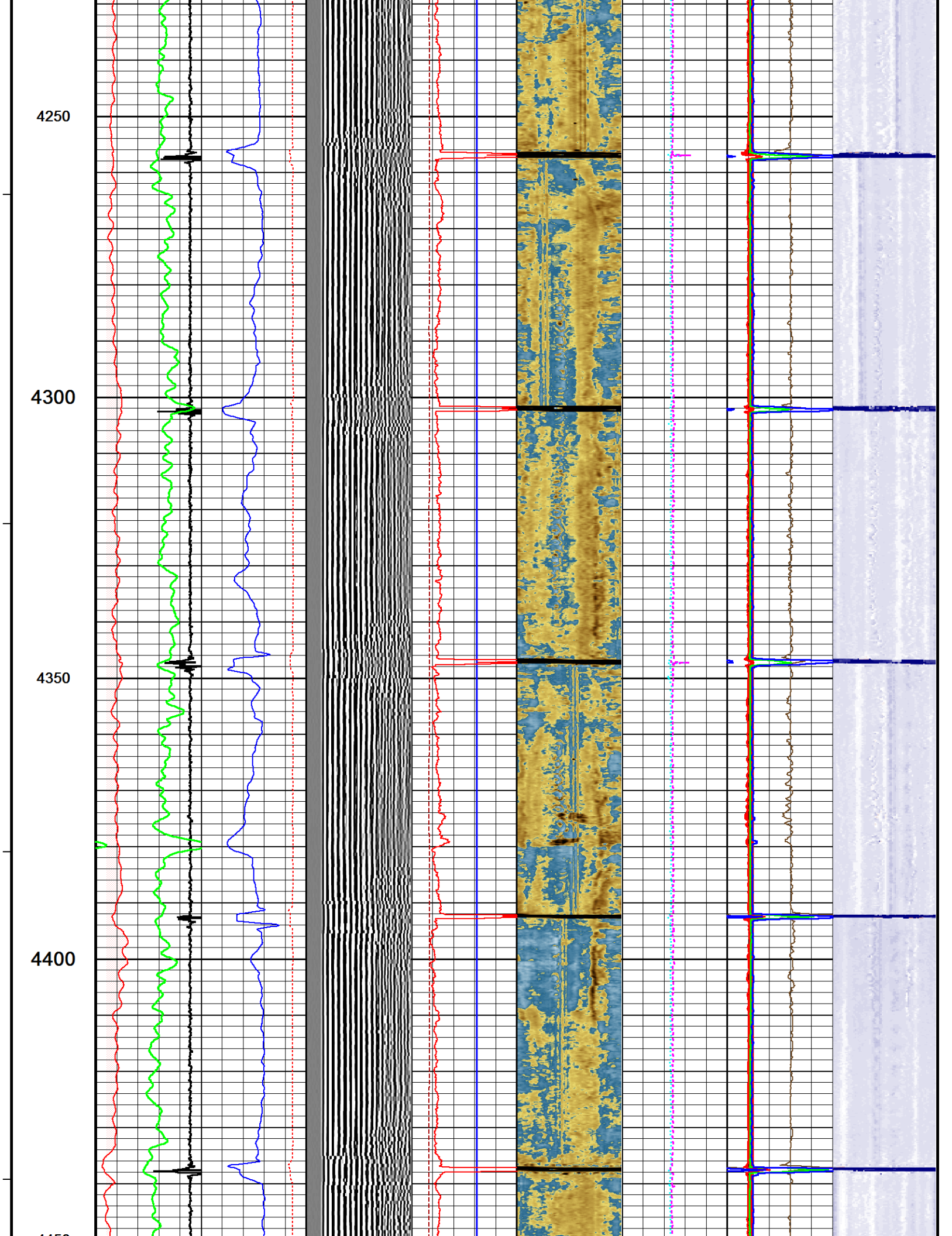
3900

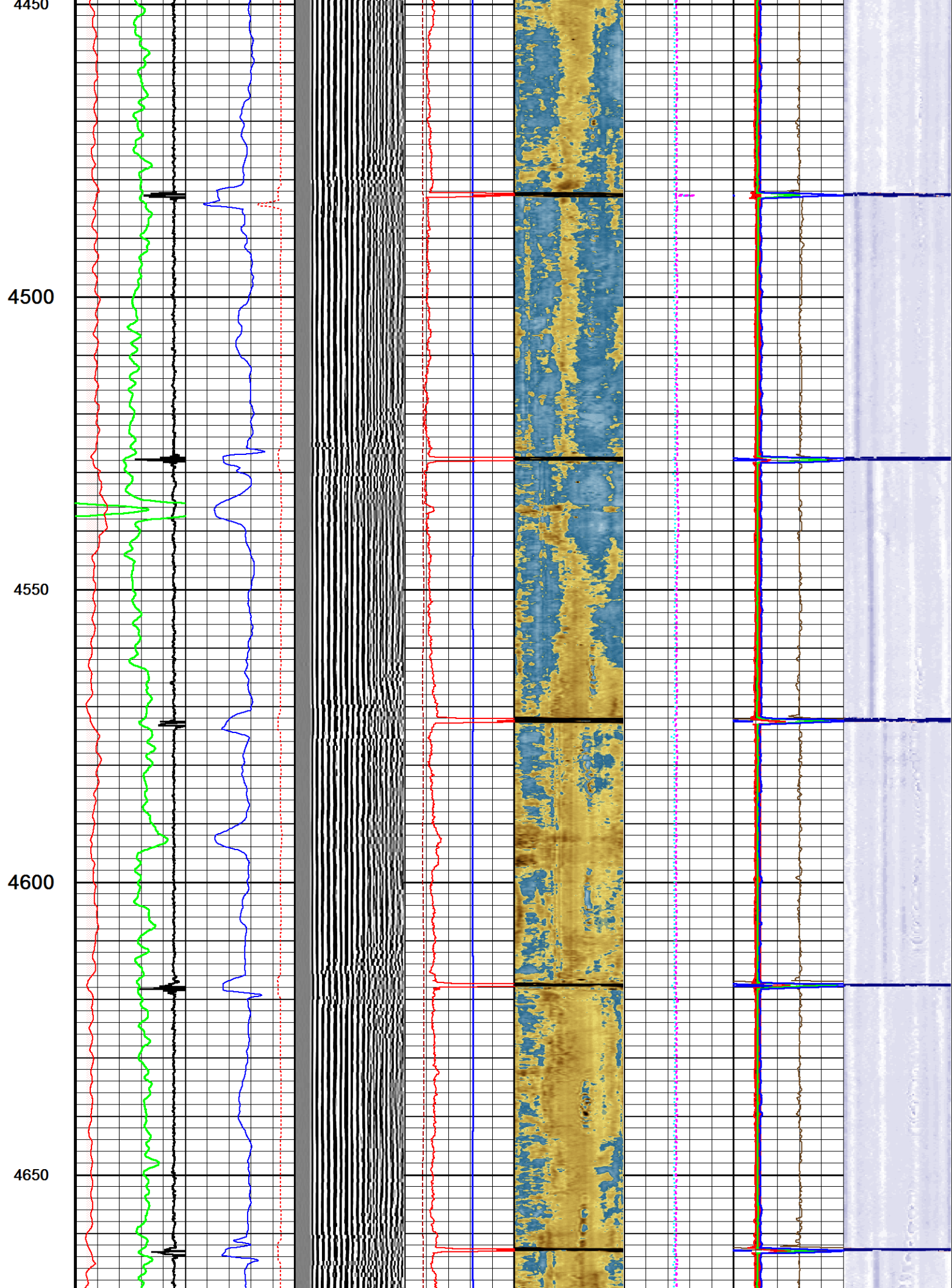
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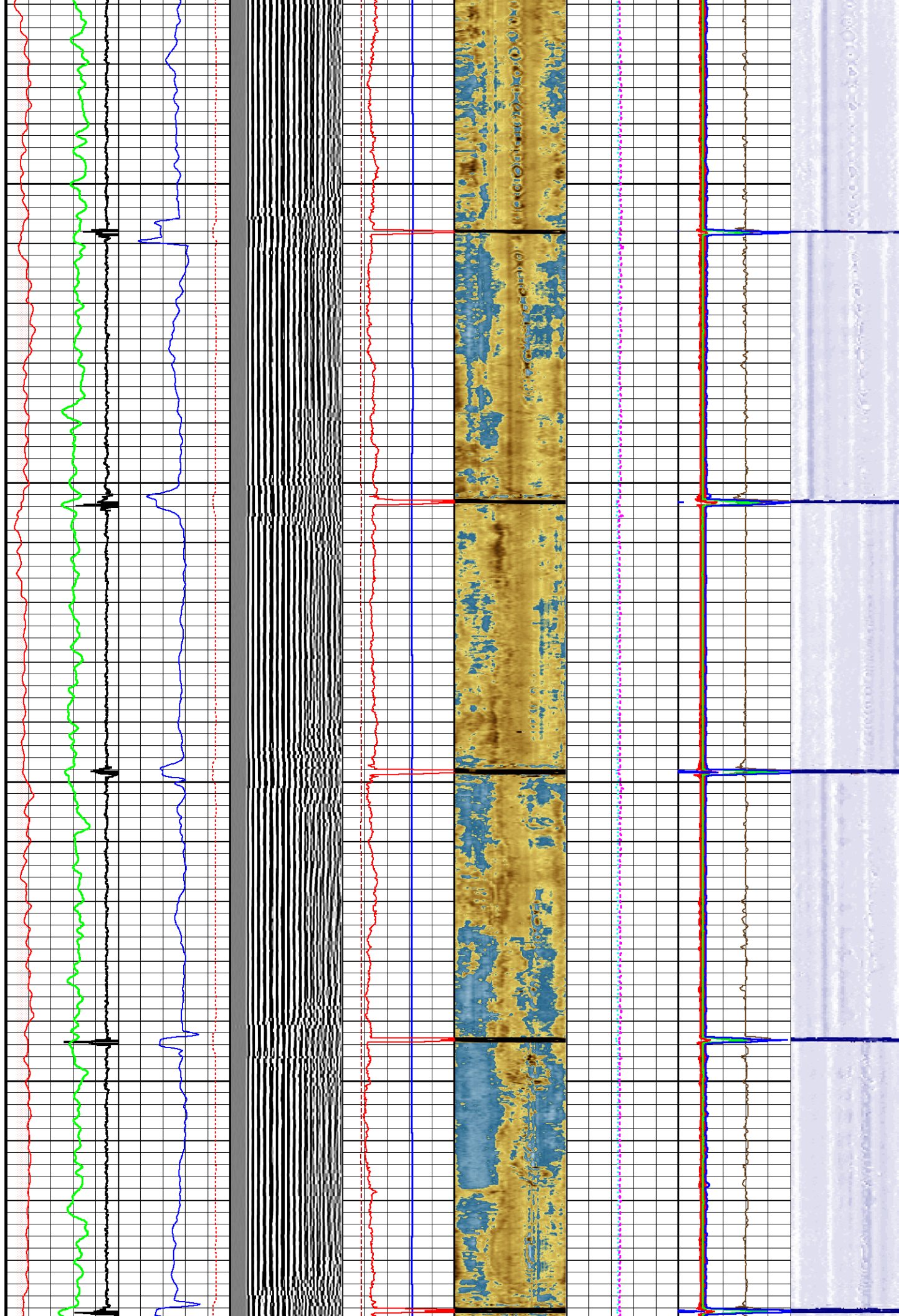


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4750

4800

4850



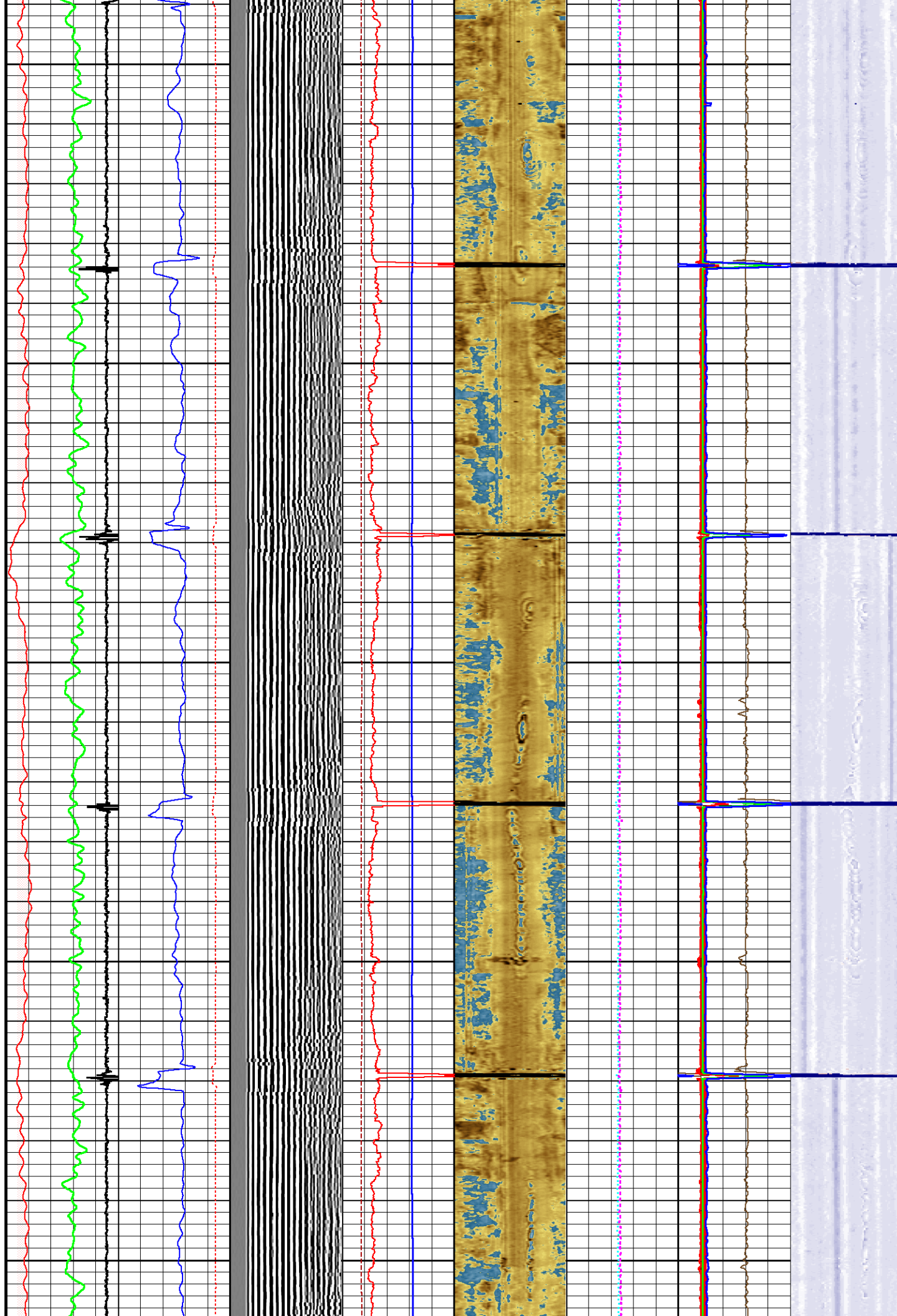
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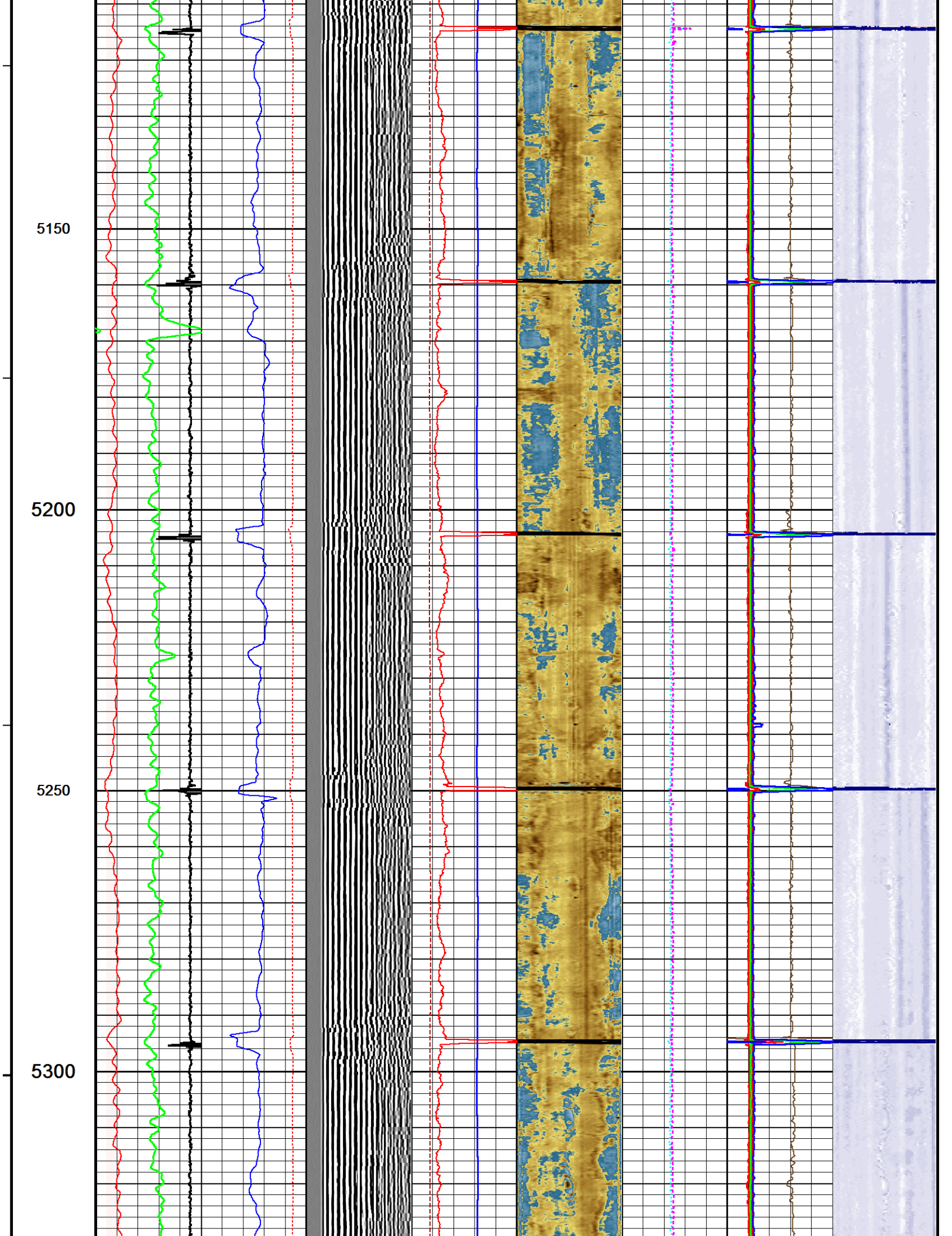
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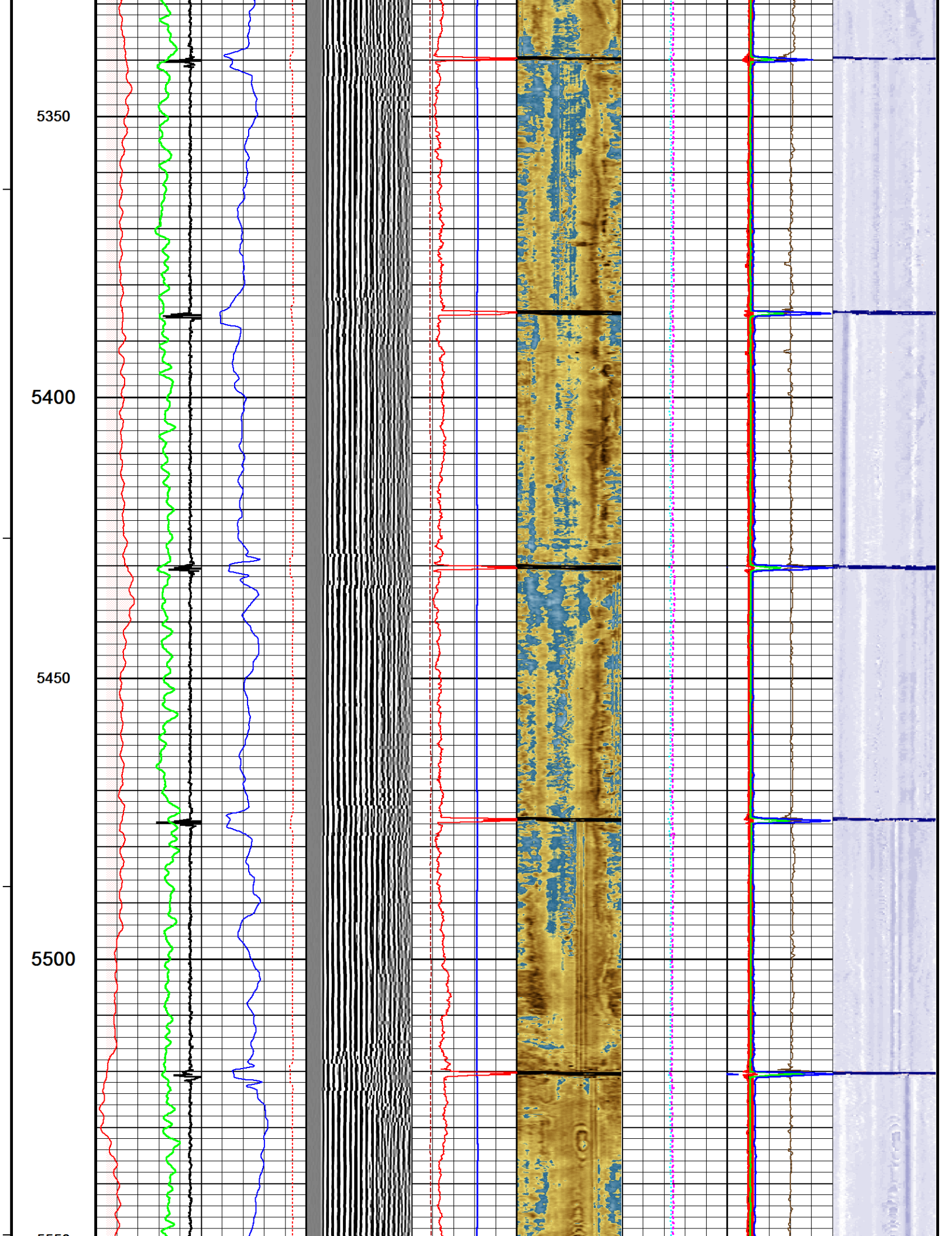
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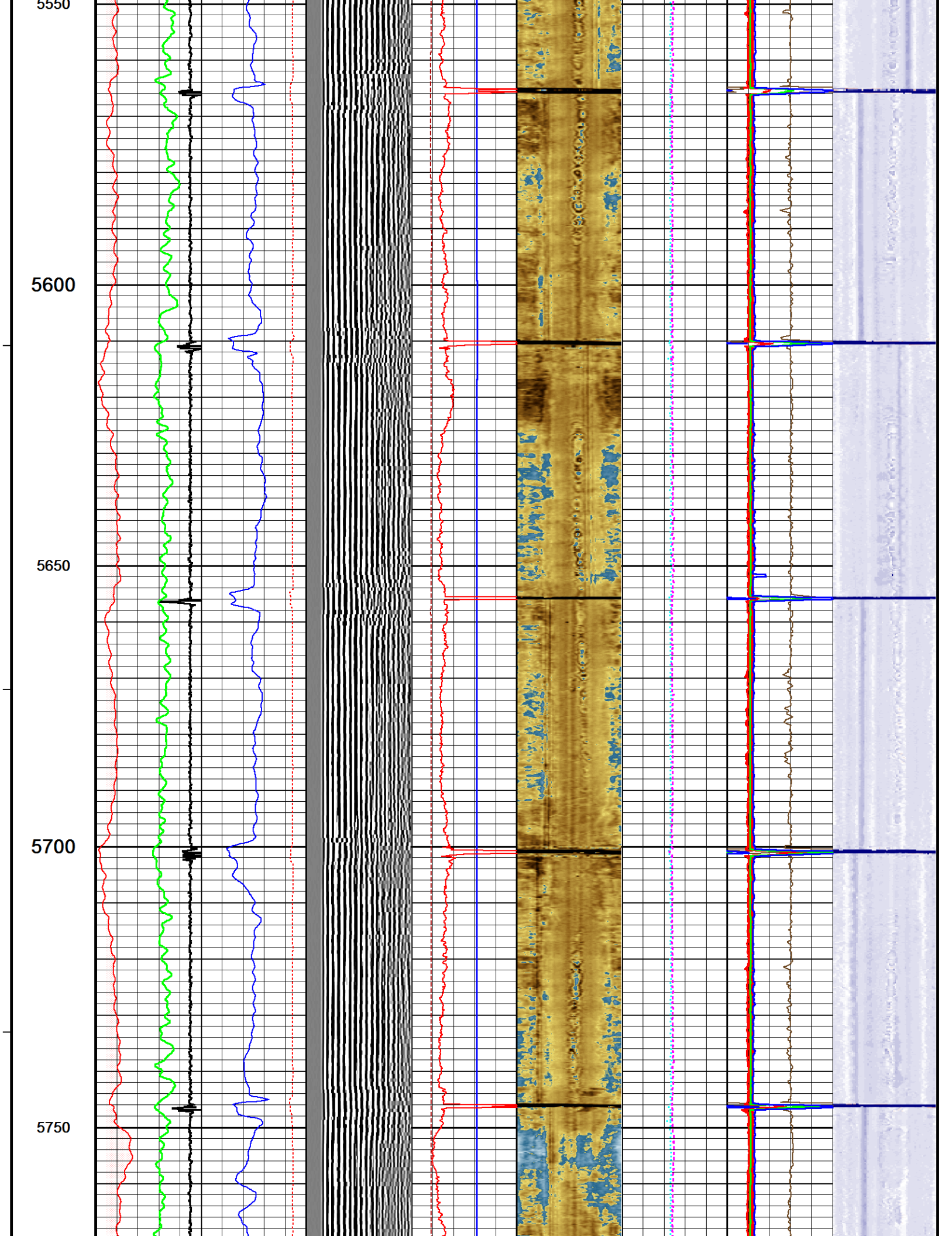
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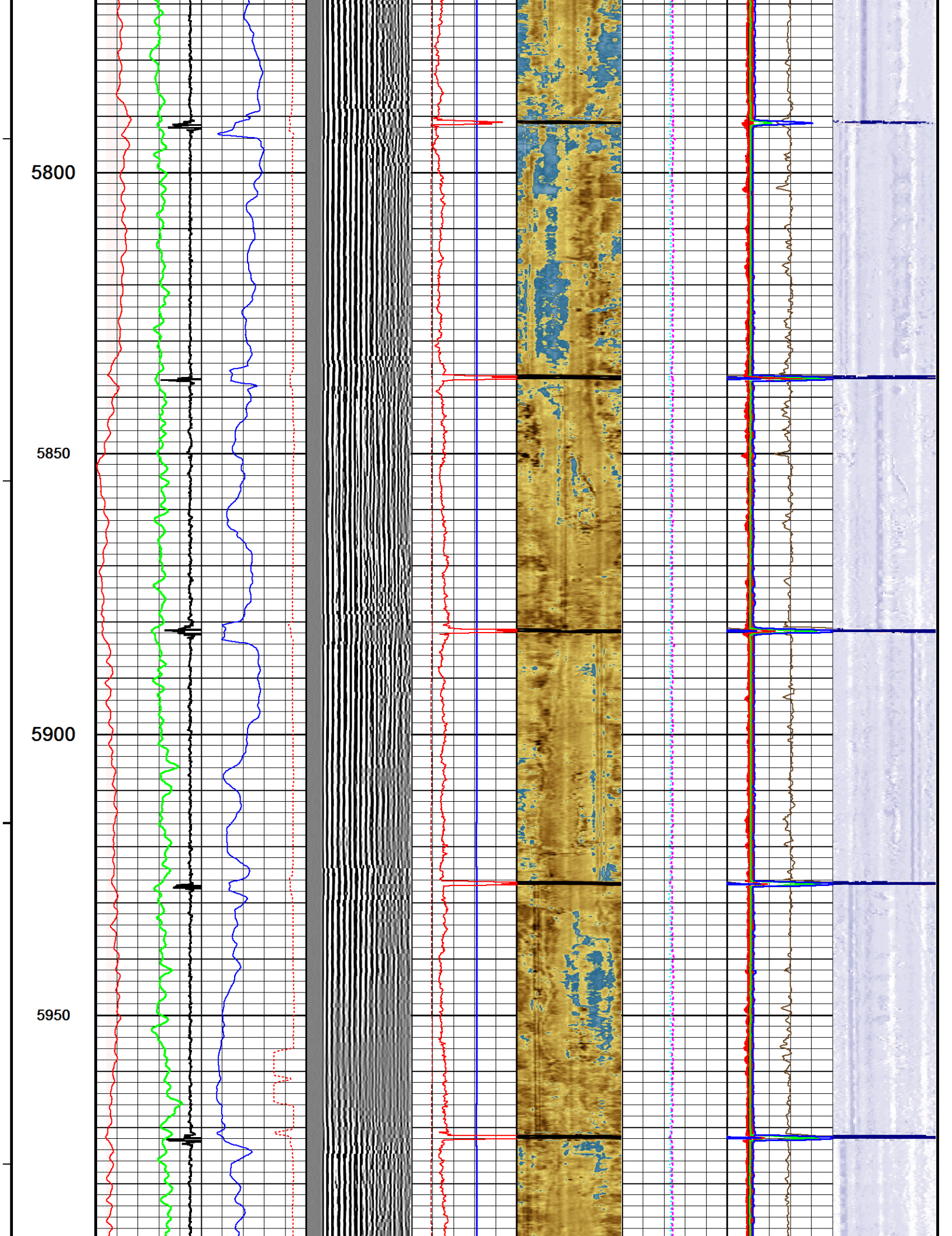
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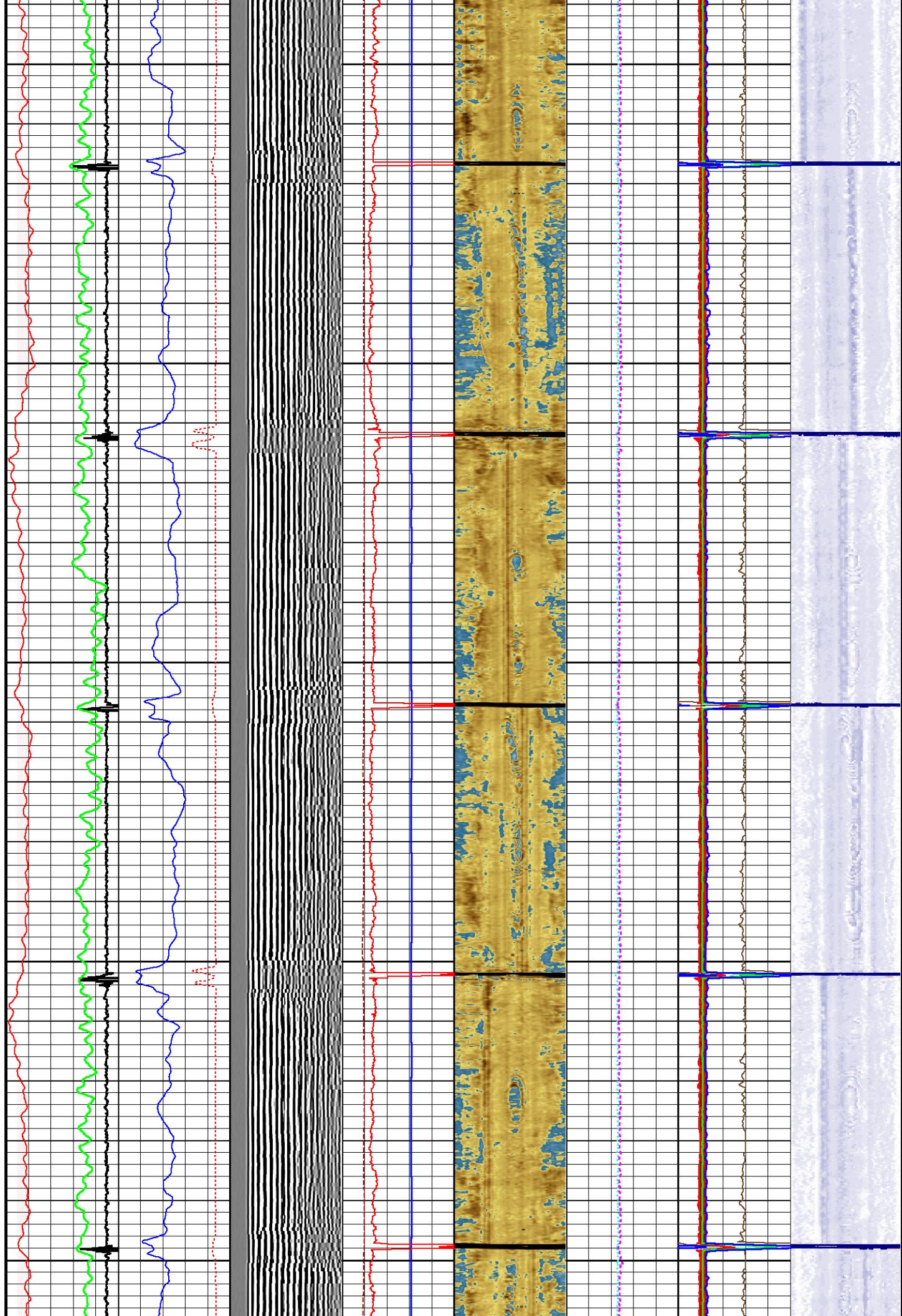
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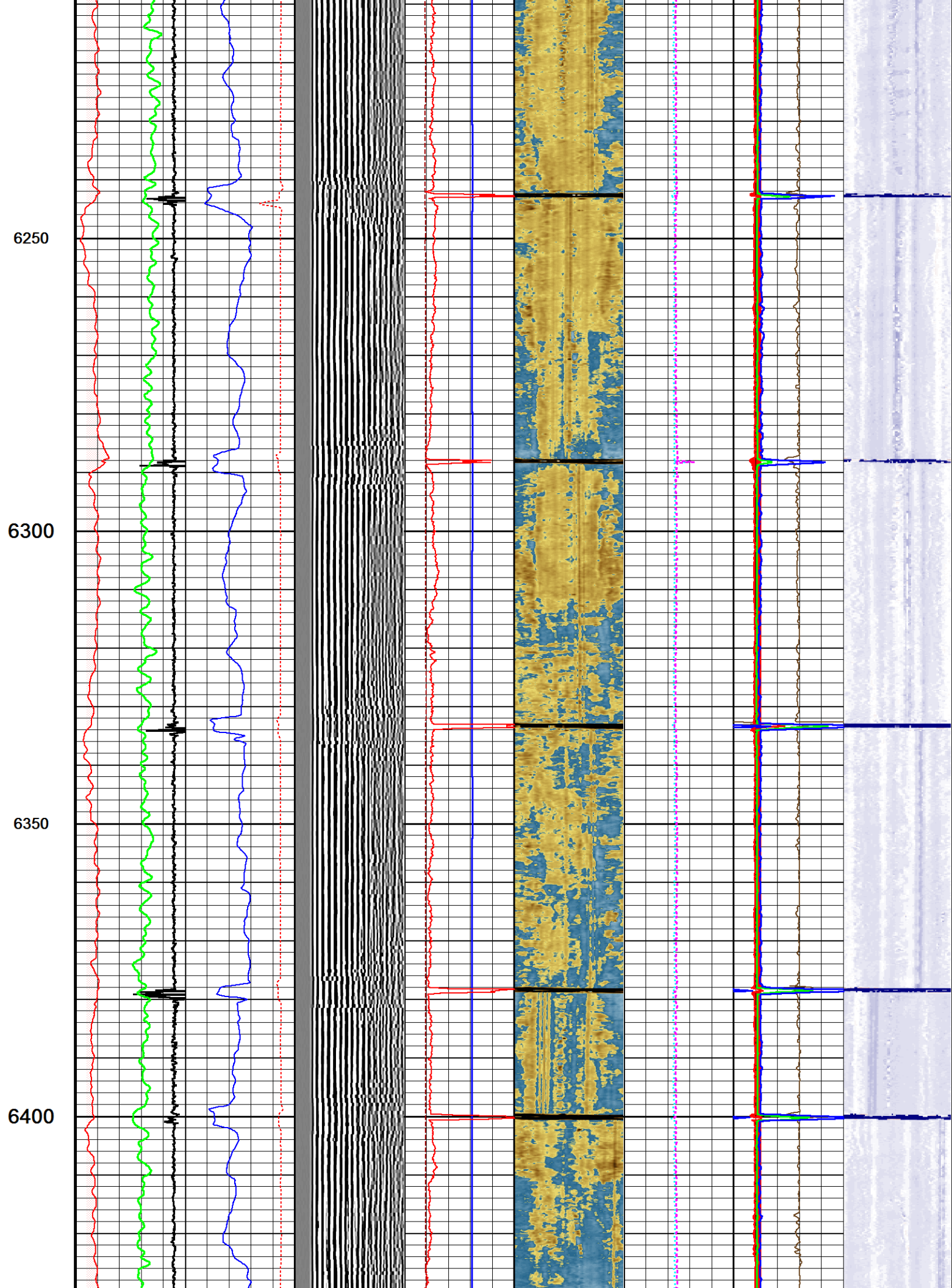
6050

6100

6150

6200



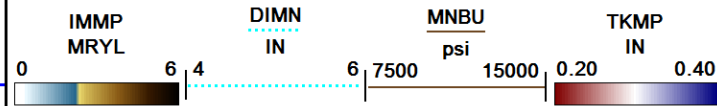
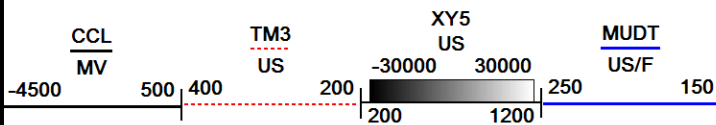


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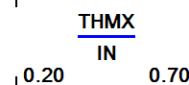
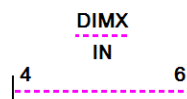
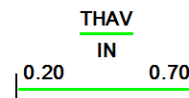
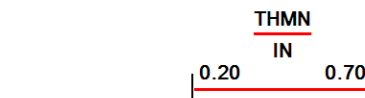
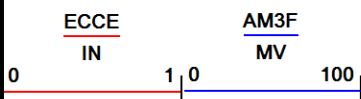
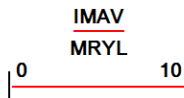
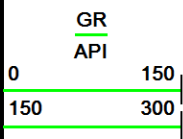
6500

6550

6572
Depth
in
Feet



Timing
Marks
every
60.0 sec



TENS

5000

0

A horizontal number line with a vertical tick mark at 0 on the left and a vertical tick mark at 10 on the right. A dashed red line is drawn horizontally across the middle of the number line, representing the value 5.

System Versions: Logged with 18.03.8633 Processed with 18.03.8633 Plotted with 18.03.8633



↓

System Versions: Logged with 18.03.8633 Processed with 18.03.8633 Plotted with 18.03.8633

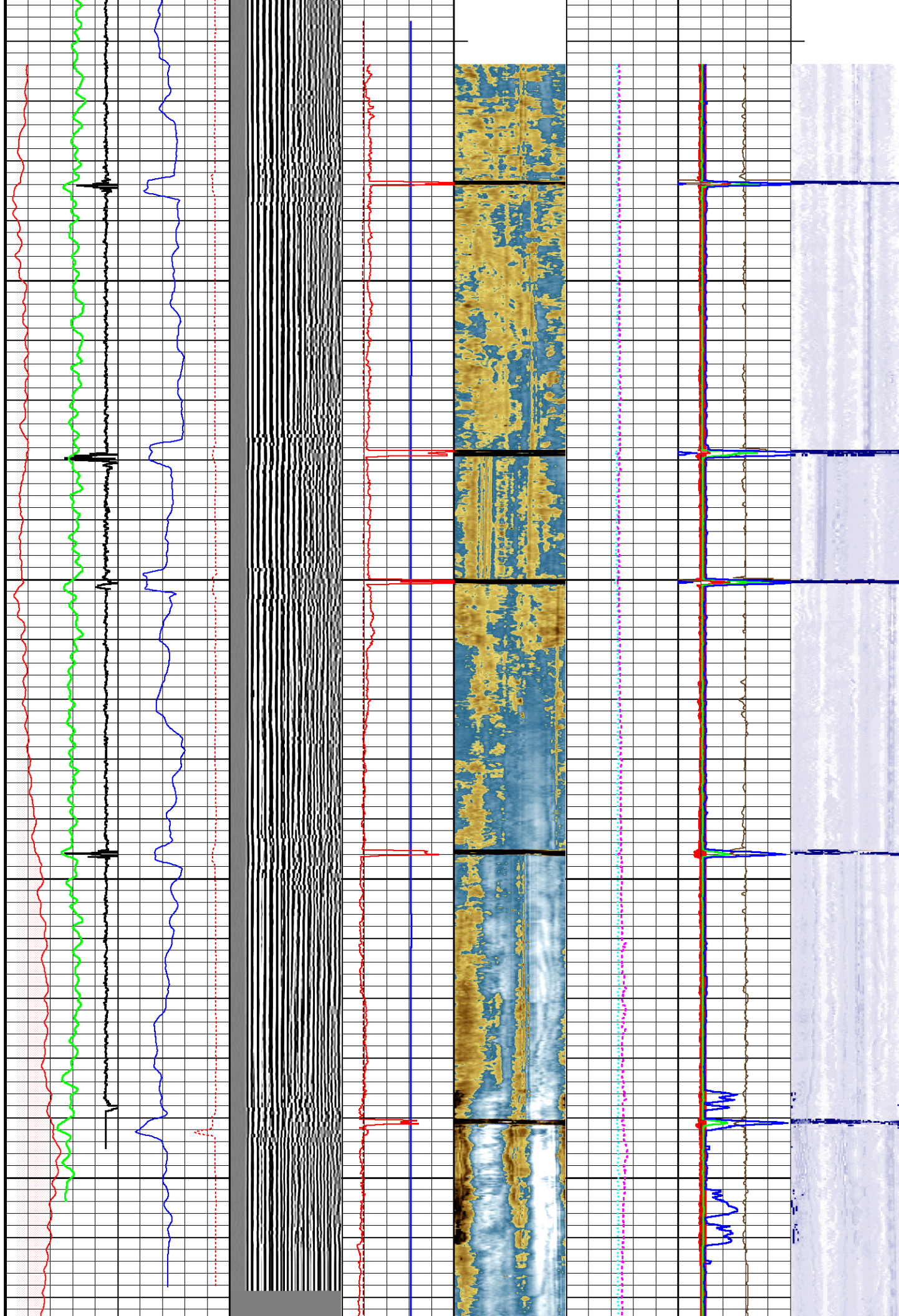
6300

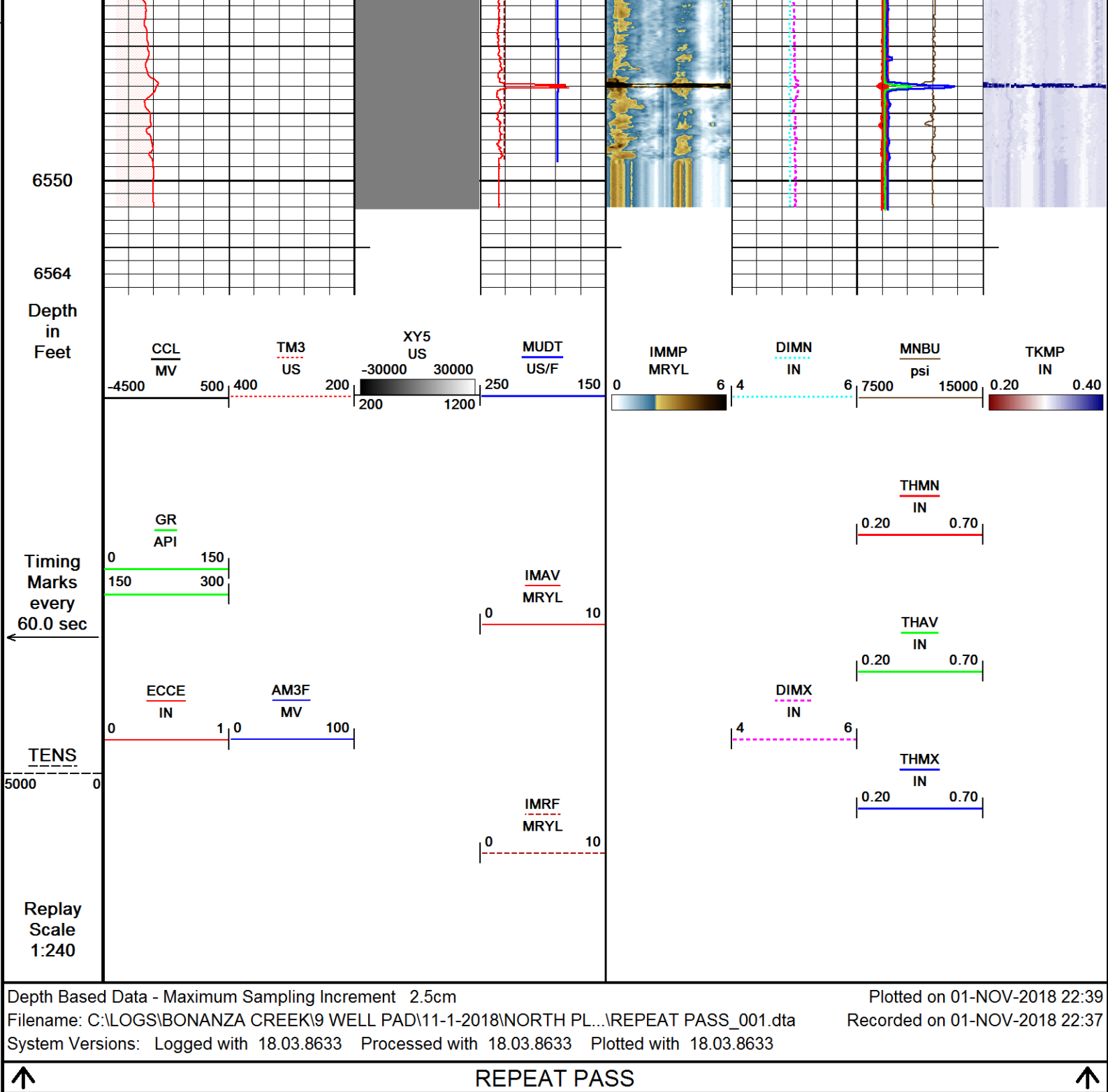
6350

6400

6450

6500





SHOP AND FIELD CALIBRATIONS			
C:\LOGS\BONANZA CREEK\9 WELL PAD\11-1-2018\NORTH PLATTE K21-O24-28 HNB\MAIN PASS_002.dta			
UGR Field Survey cal UGR-JD 135			
Field calibration on 00-JAN-1988 00:00			
Gamma Ray Field survey calibration			
Tool Type: UGR-JD		Serial No: 135	
Calibrator No:			
Background	Calibrator	Standard	Units
0.0	412.0	140.0	CPS

Delta Counts Per Sec: 412.0

CPS/API = 2.943

CBT Field Calibration CBT-AA 115

Field Calibration on 01-NOV-2018 08:51

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	5.60	1.70
	Free Pipe	72.00	605.75
AMP 5 FT	100 % Bond	0.90	1.93
	Free Pipe	48.00	564.89

CBT Constants CBT-AA 115

Last Edited on 01-NOV-2018 21:54

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 01-NOV-2018 08:50

Ultrasonic Radial Scanner Before Calibration

Tool Type USH-AB Serial No 136

	Measured	Minimum	Maximum	
Free Pipe	-999.250	0.000	0.000	MRYL
Mud Impedance	3.960	0.000	0.000	MRYL

URS Constants USH-AB 136

Last Edited on 01-NOV-2018 21:54

*** 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	3.40
ZMud Cal Area Ratio	4.60

**** 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	1639.00	5.50	36.00	1.50	1.50	0.30	1.00
0.00	12159.00	5.50	17.00	3.64	3.96	0.30	1.00

**** Constants ****

Thickness Calculated from	Tool
Radius Offset	-0.51
Mud Slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.60 MRYL
Z_mud Outside	1.65 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:\LOGS\BONANZA CREEK\9 WELL PAD\11-1-2018\NORTH PLATTE K21-O24-28 HNB\MAIN PASS_002.dta

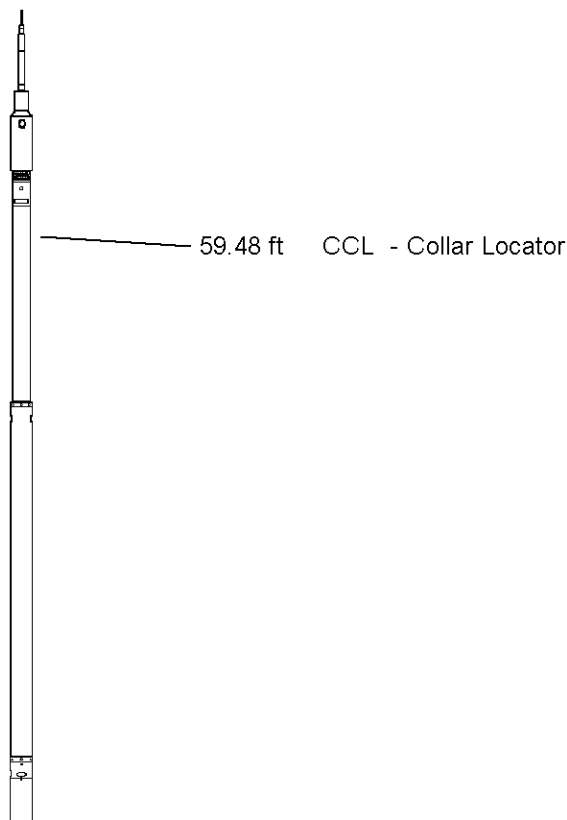
Mono-Cablehead
MCH-AA 777 LG: 1.03 ft WT: 2.2 lb OD: 1.460 in

Crossover 1-pin to 55-pin for WCC-D
XOV-WC 125 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 135 LG: 4.60 ft WT: 81.6 lb OD: 3.386 in

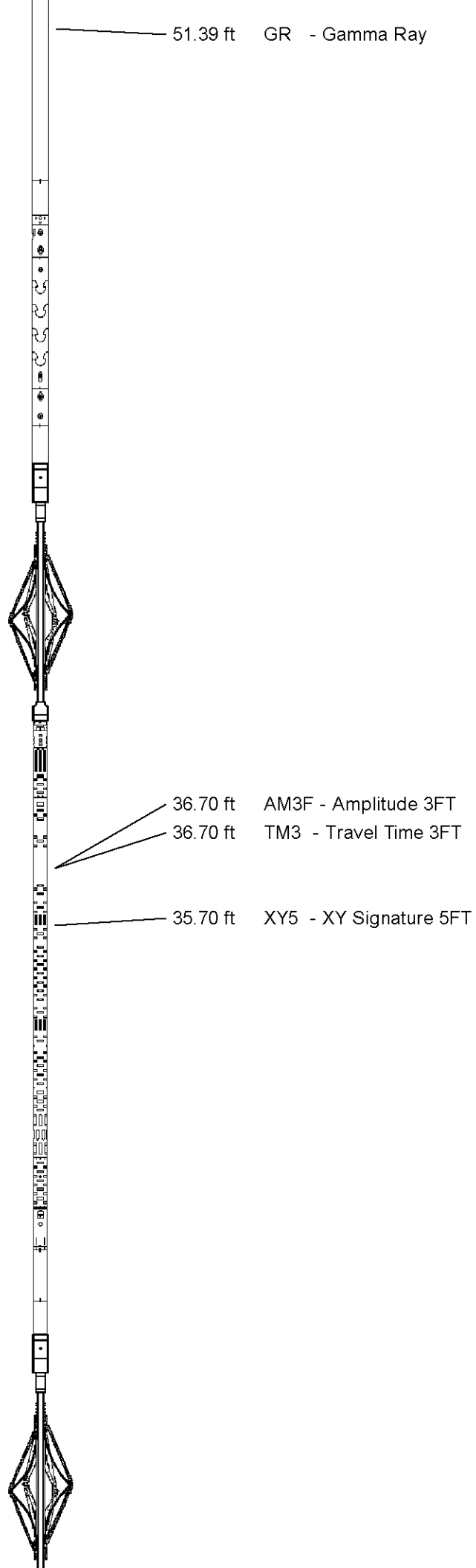


Flexible Joint, URS, 55 Pin
FTP-FA 131 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in

55 pin Roller Centralizer
CEN-XA 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

55 pin Roller Centralizer
CEN-XA 213 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

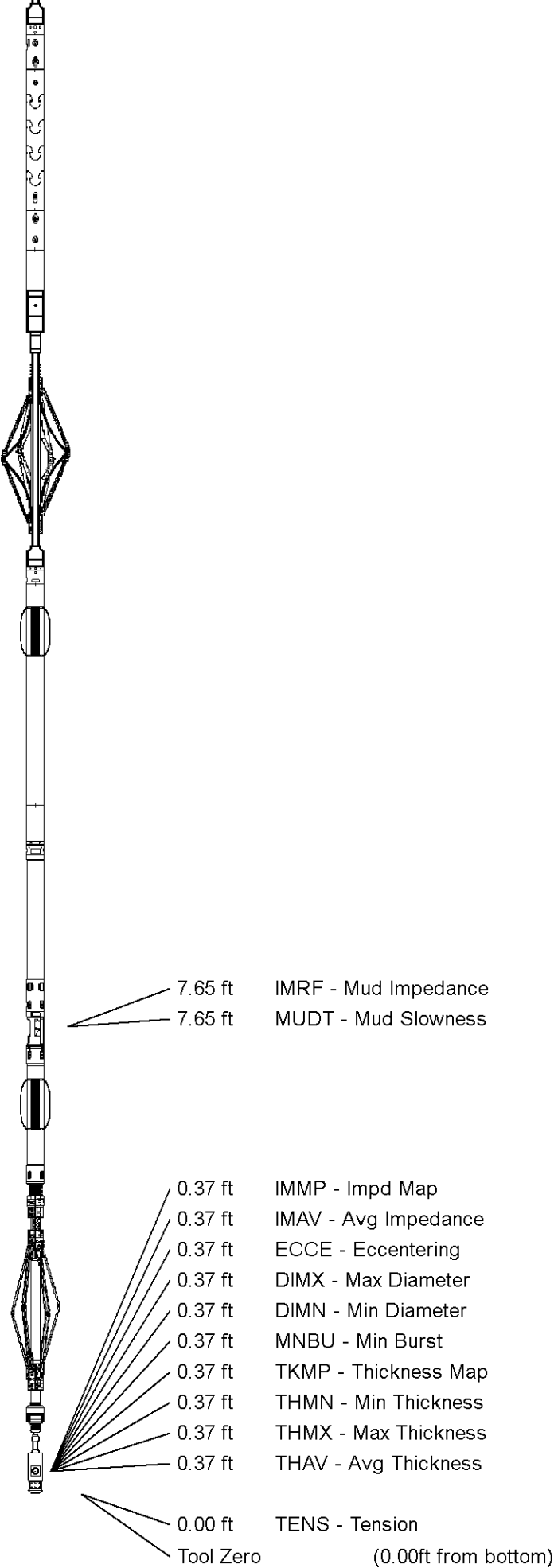
55 pin Roller Centralizer
CEN-XA 225 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

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


URS Sonde Section
USS-AB 181 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: 62.40 ft Weight: 1045.0 lb



All measurements relative to tool zero.

COMPANY	BONANZA CREEK ENERGY				
WELL	NORTH PLATTE K21-O24-28 HNB				
FIELD	WATTENBERG				
PROVINCE/COUNTY	WELD				
COUNTRY/STATE	USA / COLORADO				
Elevation Kelly Bushing	4565	feet	Bottom Log Interval	6555.00	feet
Elevation Drill Floor	4565	feet	Depth Driller	12169.00	feet
Elevation Ground Level	4548	feet	Depth Logger	6555.00	feet
<div><div>SECUREVIEW ULTRAVIEW / BONDVIEW LOG</div></div>					