
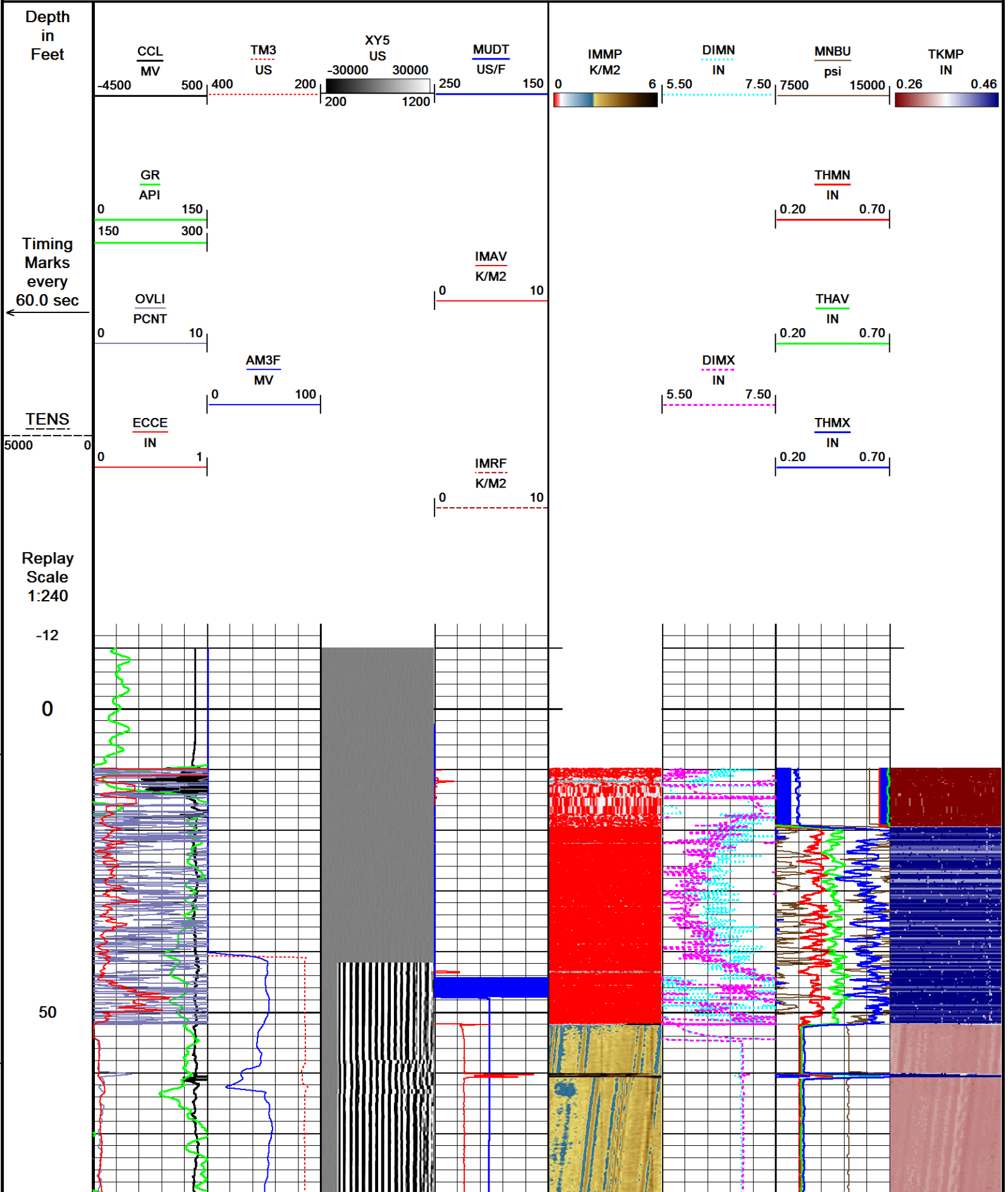
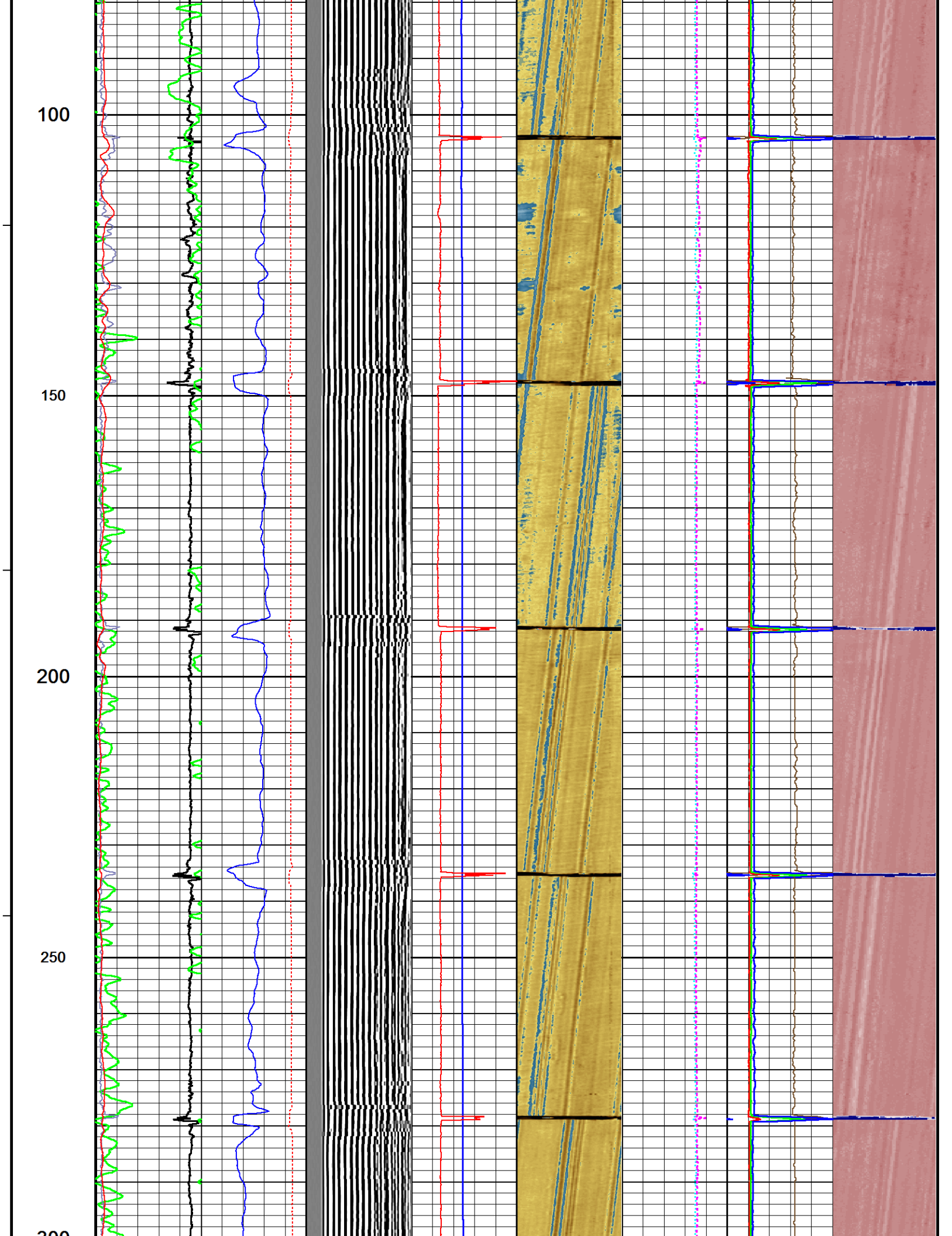
				SECUREVIEW			
				ULTRAVIEW / BONDVIEW			
				LOG			
COMPANY				BONANZA CREEK ENERGY			
WELL				NORTH PLATTE 31-35-2MRLNC			
FIELD				WATTENBERG			
PROVINCE/COUNTY				WELD			
COUNTRY/STATE				UNITED STATES / COLORADO			
LOCATION				560' FSL & 2552' FEL			
SEC 26		TWP 5N	RGE 63W	Other Services			
Latitude				MSC			
Longitude							
API Number		05-123-46384					
Permanent Datum GL, Elevation 4550 feet				Elevations:			
Log Measured From KB, 17.00 feet above Permanent Datum				KB 4567.00			
Drilling Measured From KB				DF 4567.00			
				GL 4550.00			
Date		02-JUN-2018		PERFORATION RECORD			
Run Number		ONE		Shot	Number	Depth From	Depth To
Service Order		21507/9954		Density	of Shots	feet	feet
Type Log							
Depth Driller		11589.00					
Depth Logger		6300.00					
Top Log Interval		0.00					
Bottom Log Interval		6300.00					
Hole Fluid Type		WATER					
Hole Fluid Level		0.00					
Restriction ID		4.892					
Max Recorded Temp		201.00					
Well Head Pressure		0.00					
Well Head Equipment		5 1/8" 5K					
Time Well Ready		R.O.A		Size	Weight	Depth From	Depth To
Time Logger Bottom		SEE LOG		inches	pounds/ft	feet	feet
Unit		14122		9.625	36.00	0.00	1537.00
Equipment Name		WSS-E		5.500	17.00	0.00	11589.00
Base		CASPER					
Recorded By		J. RICHARDS					
Witnessed By		K. DODGE					

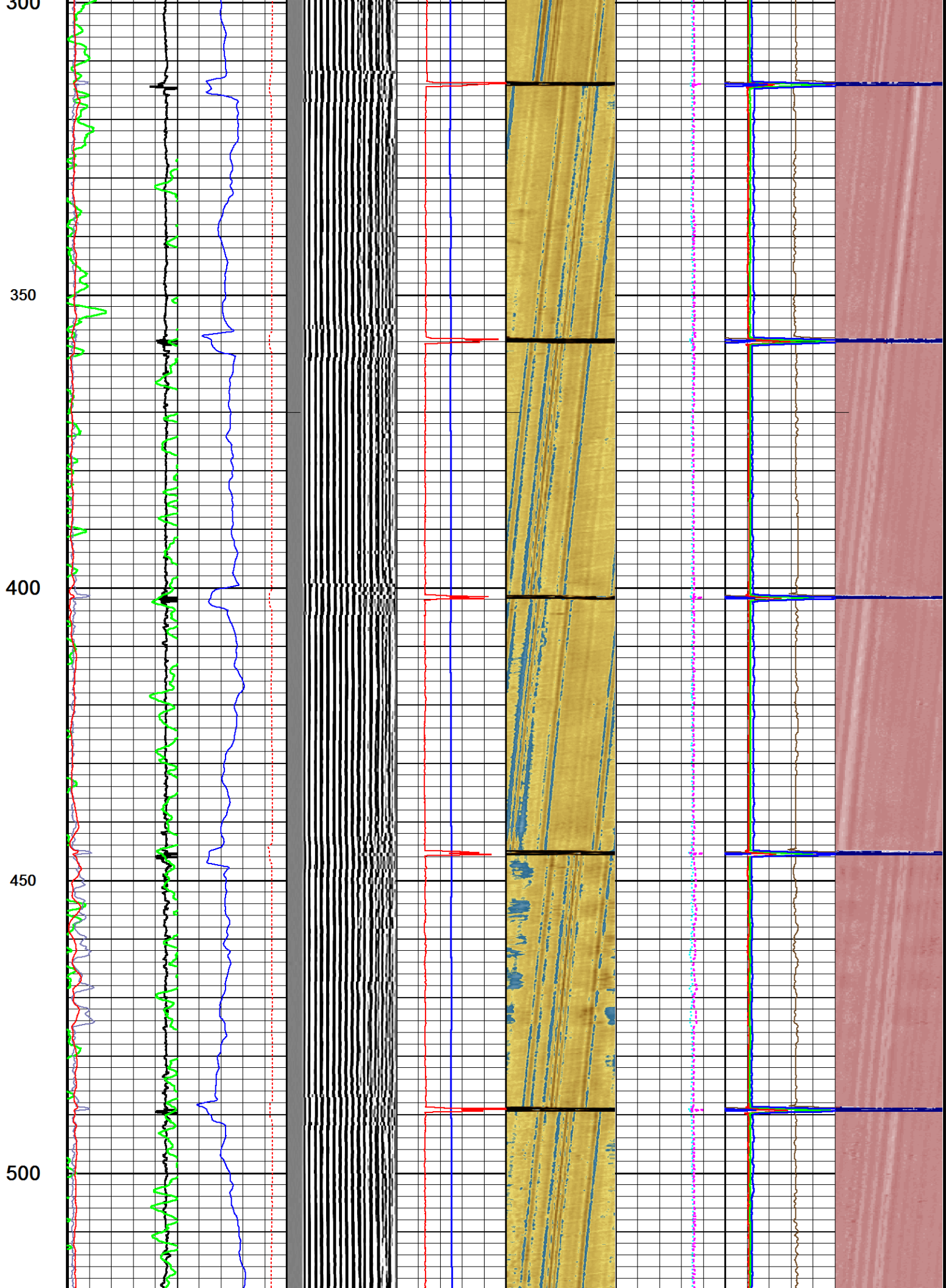
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	J 55	LT C	9.625	0.00	1537.00	36.00
PRODUCTION	P 110	LT C	5.500	0.00	11589.00	17.00

REMARKS
DATA WERE 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
CREW: A. LITTLE, T. PARSONS, A. BITTLESTON

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







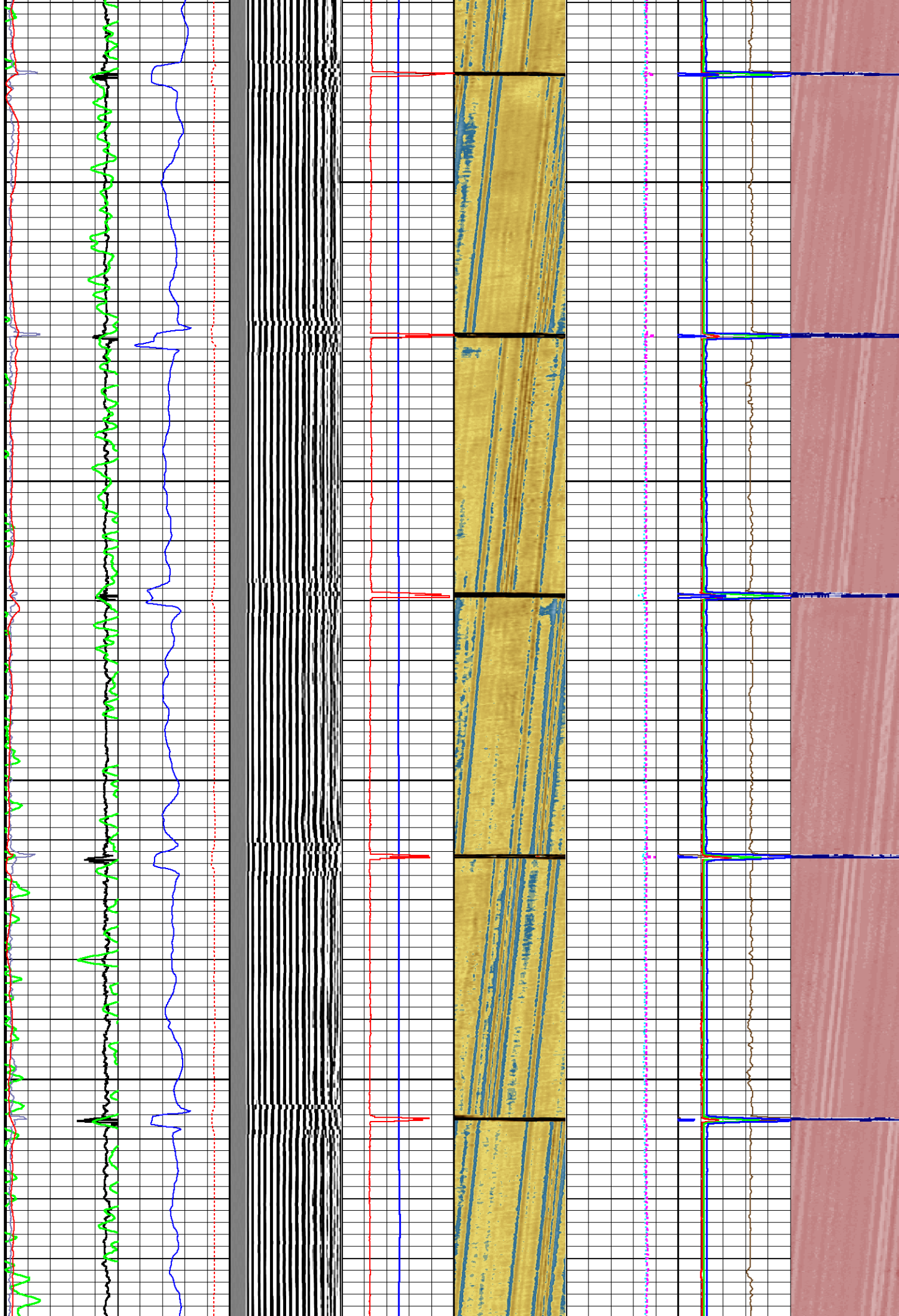


550

600

650

700



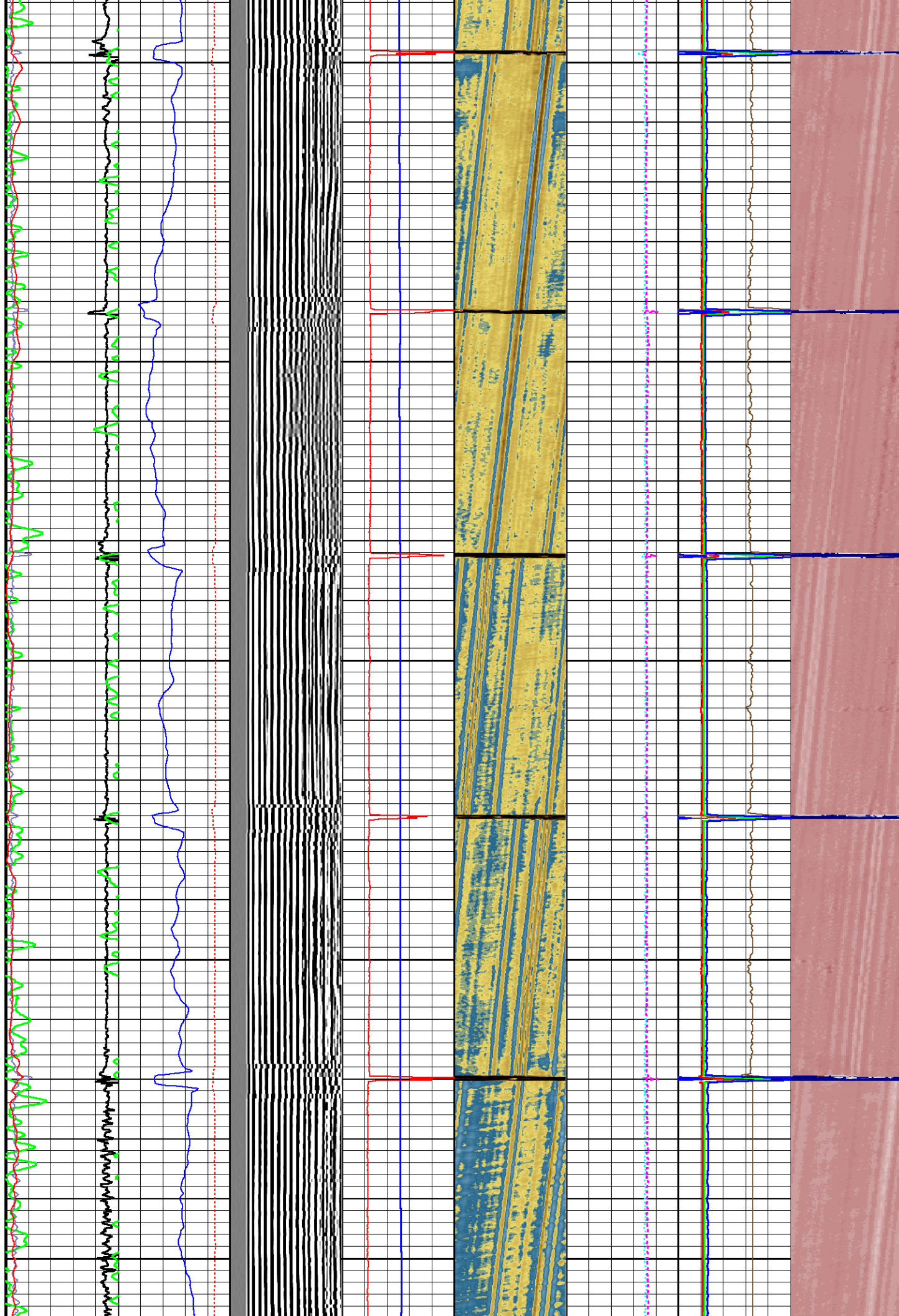
750

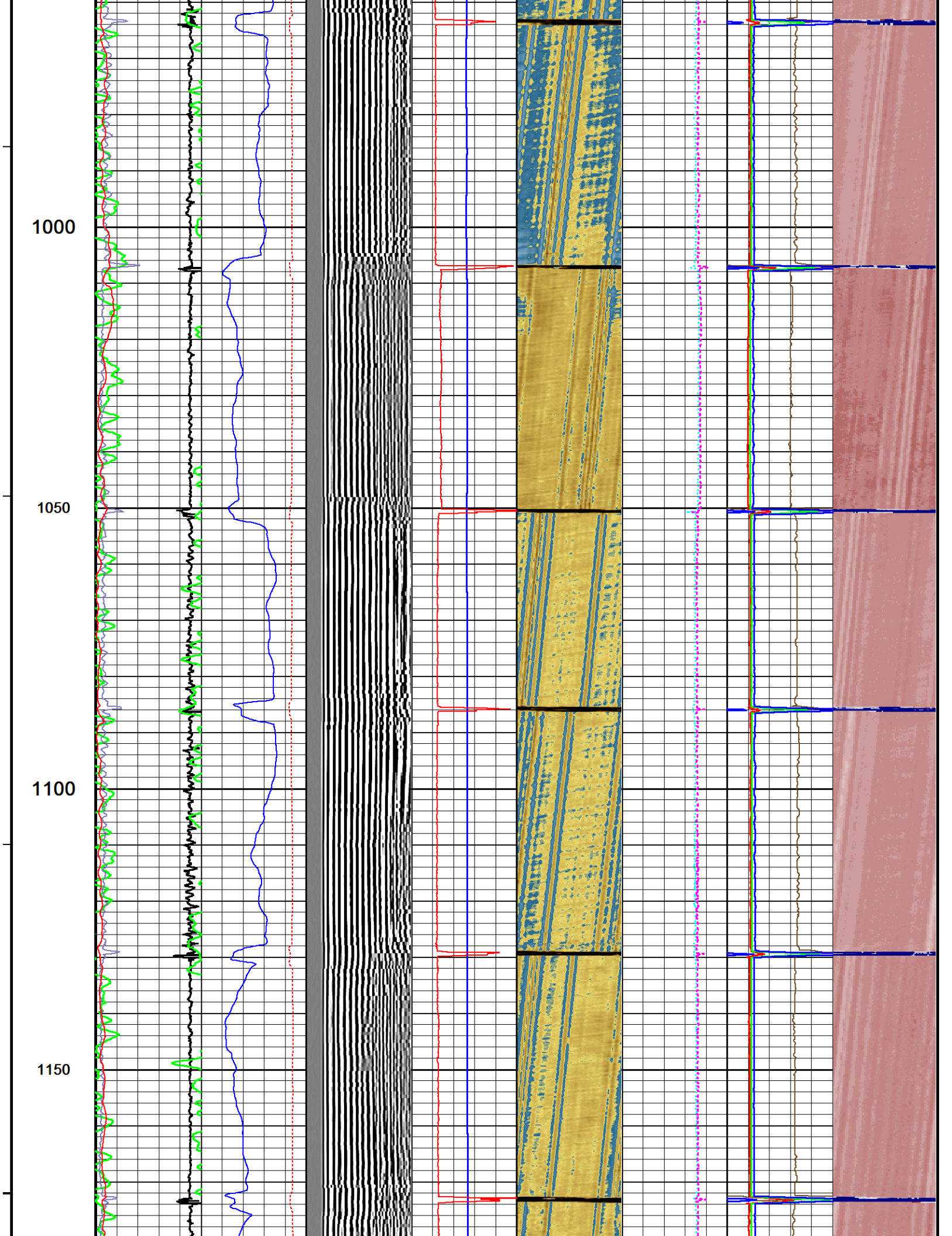
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850

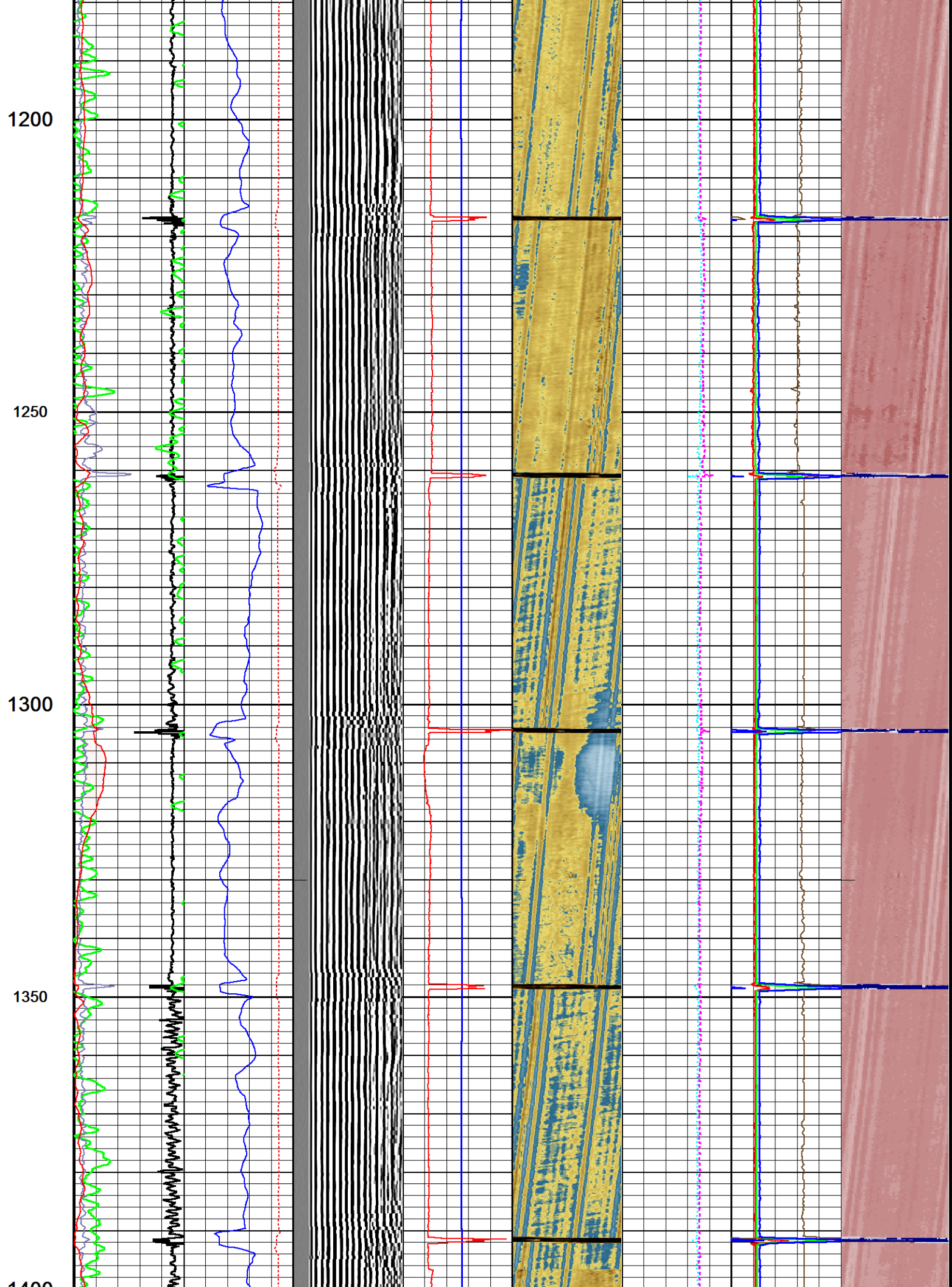
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950

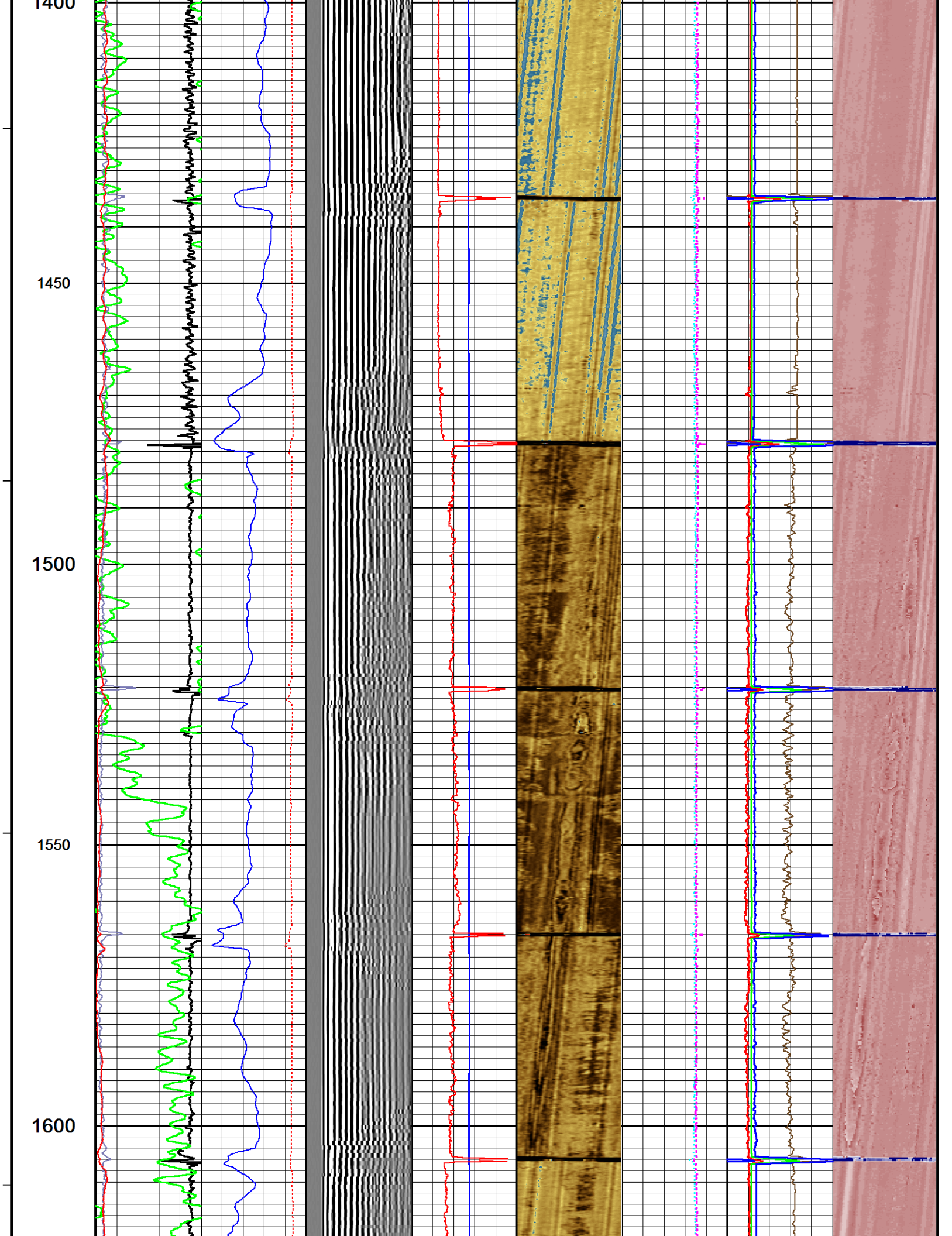










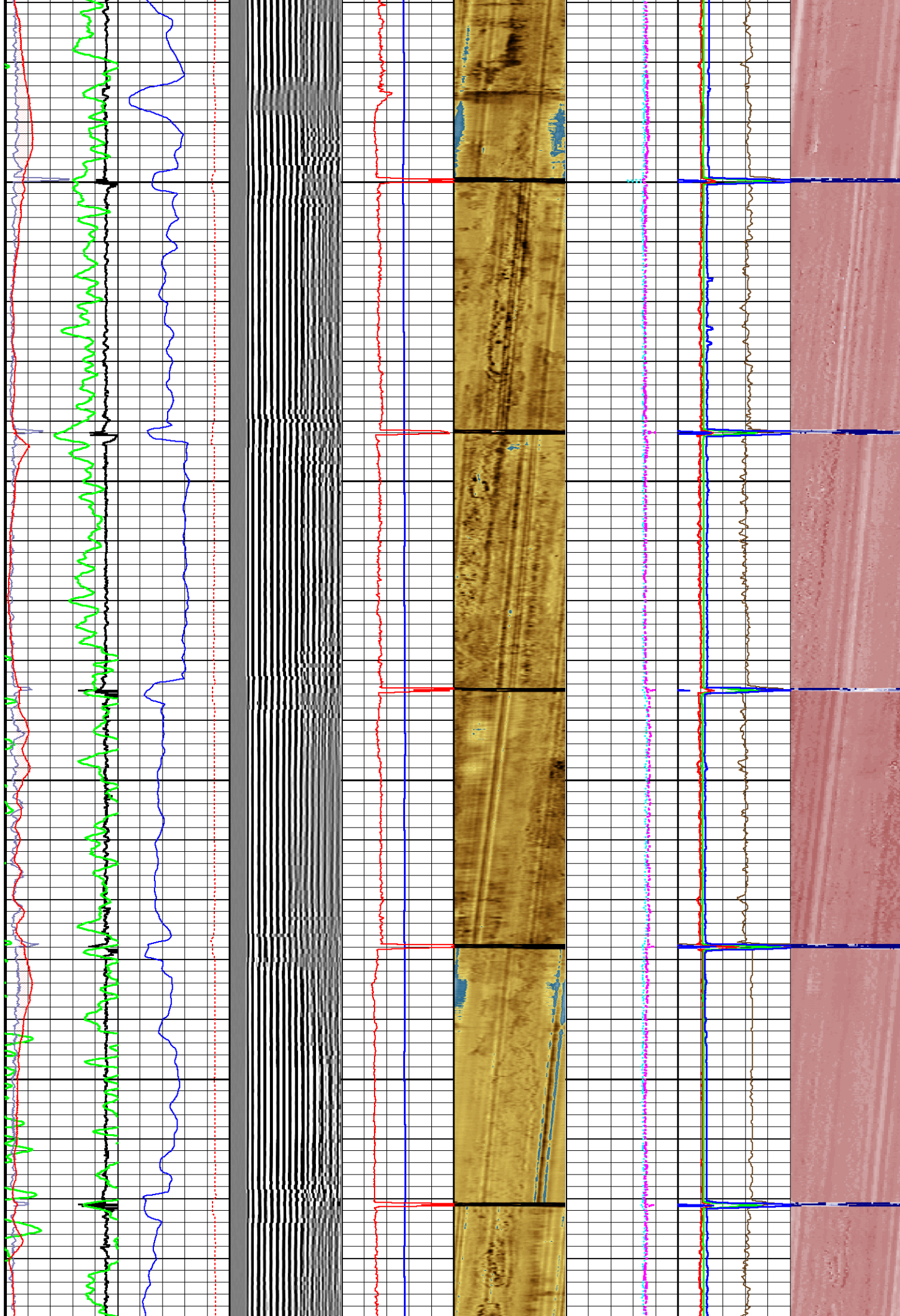


1650

1700

1750

1800





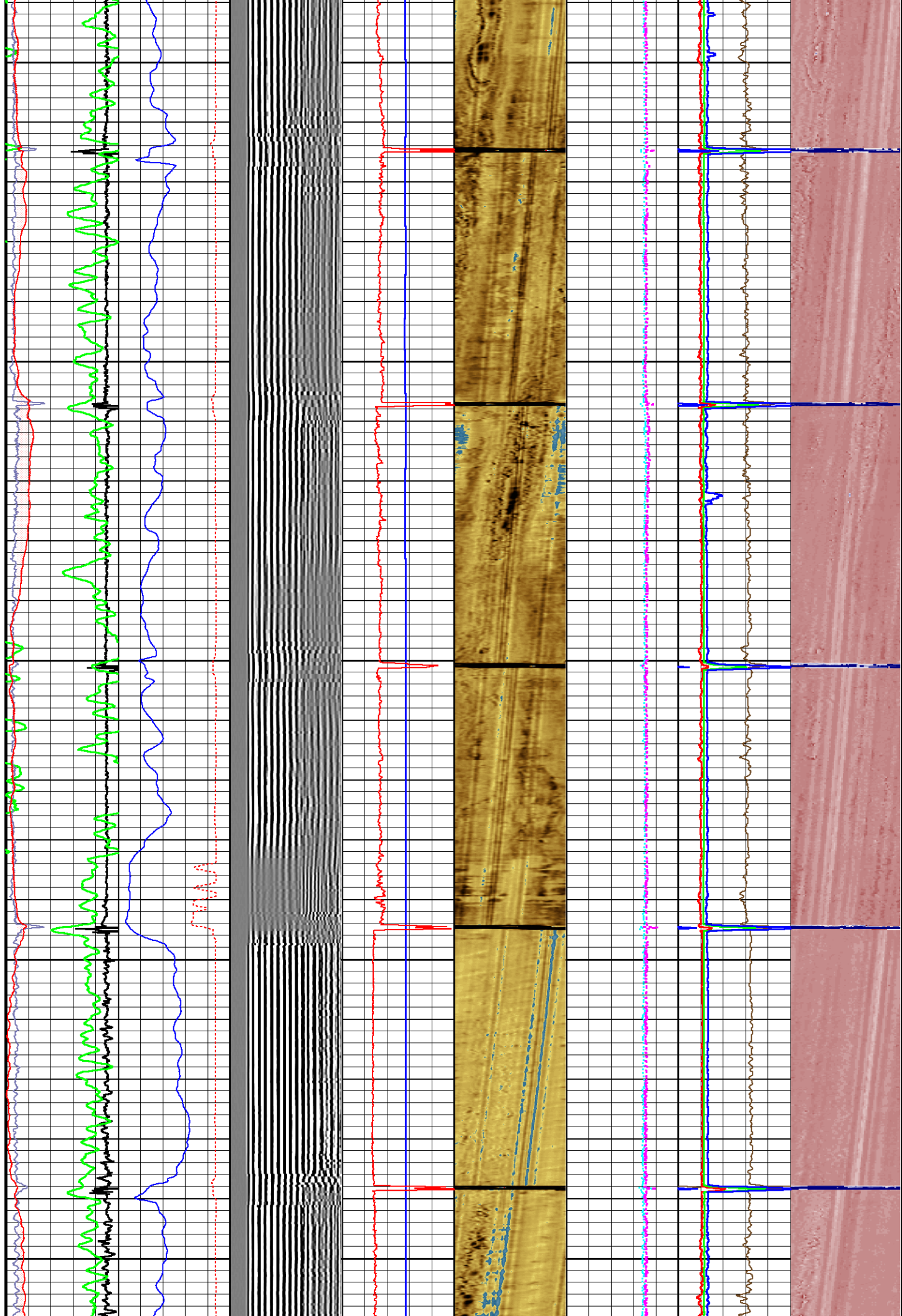
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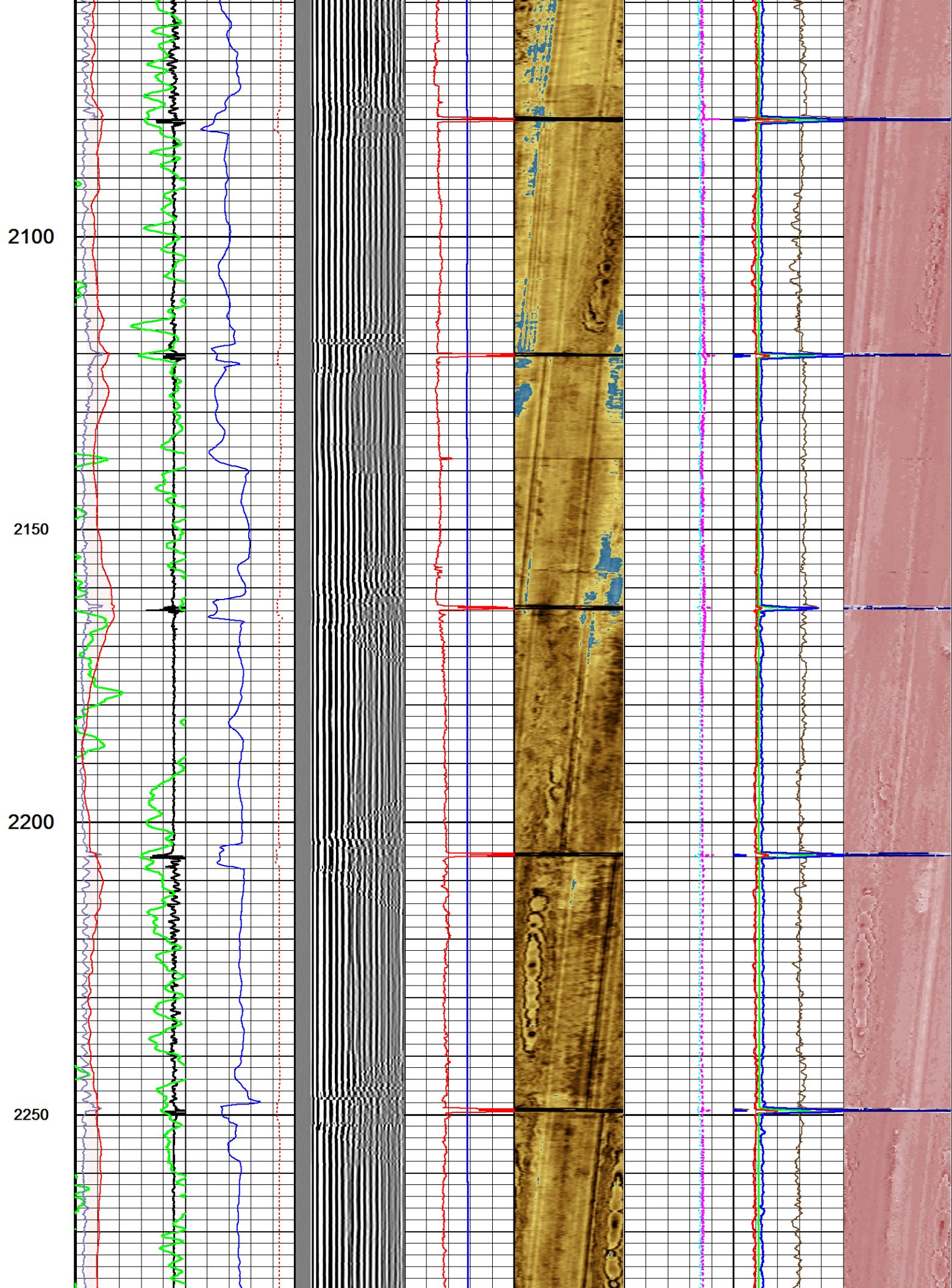
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1950

2000

2050







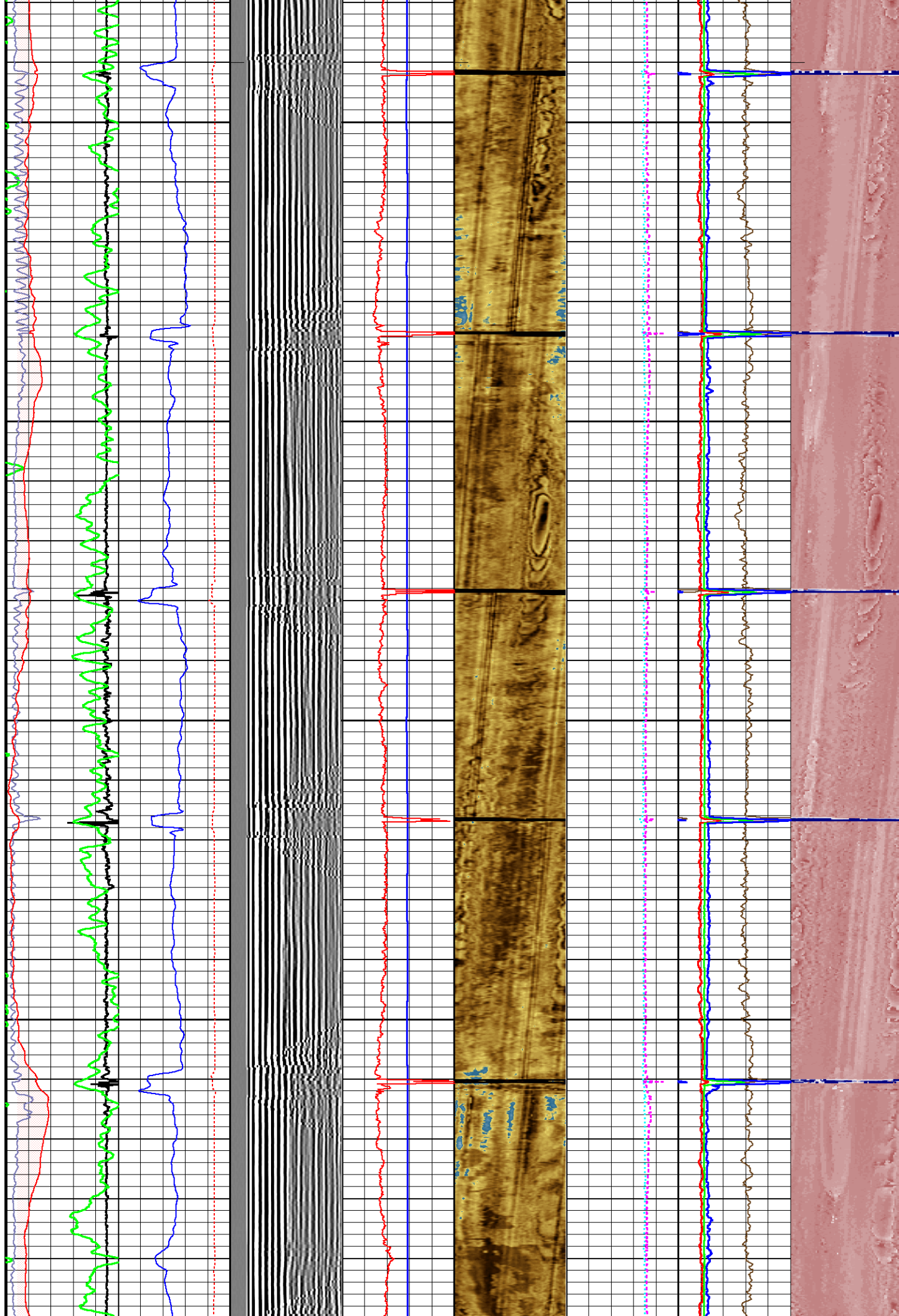
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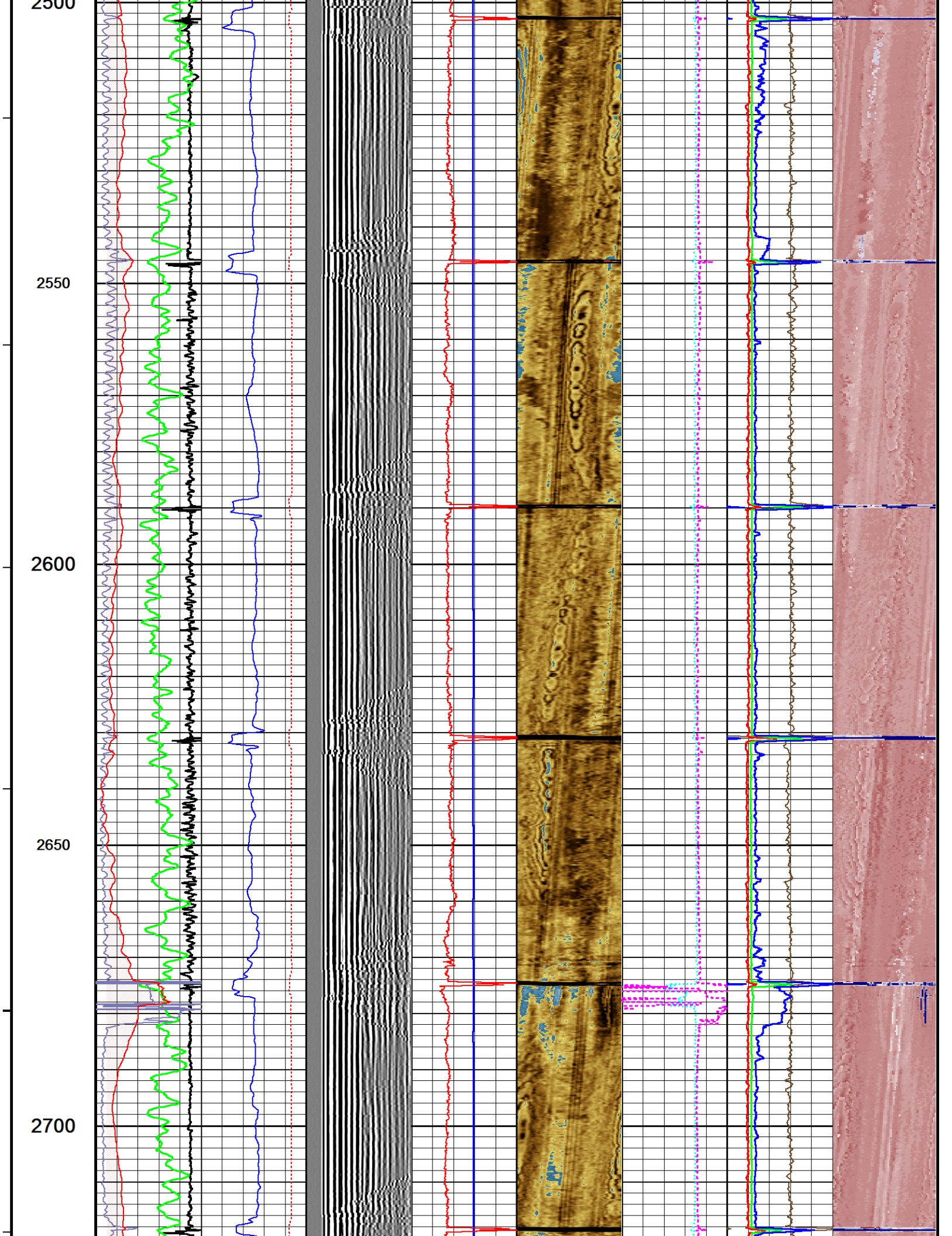
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2400

2450

2500





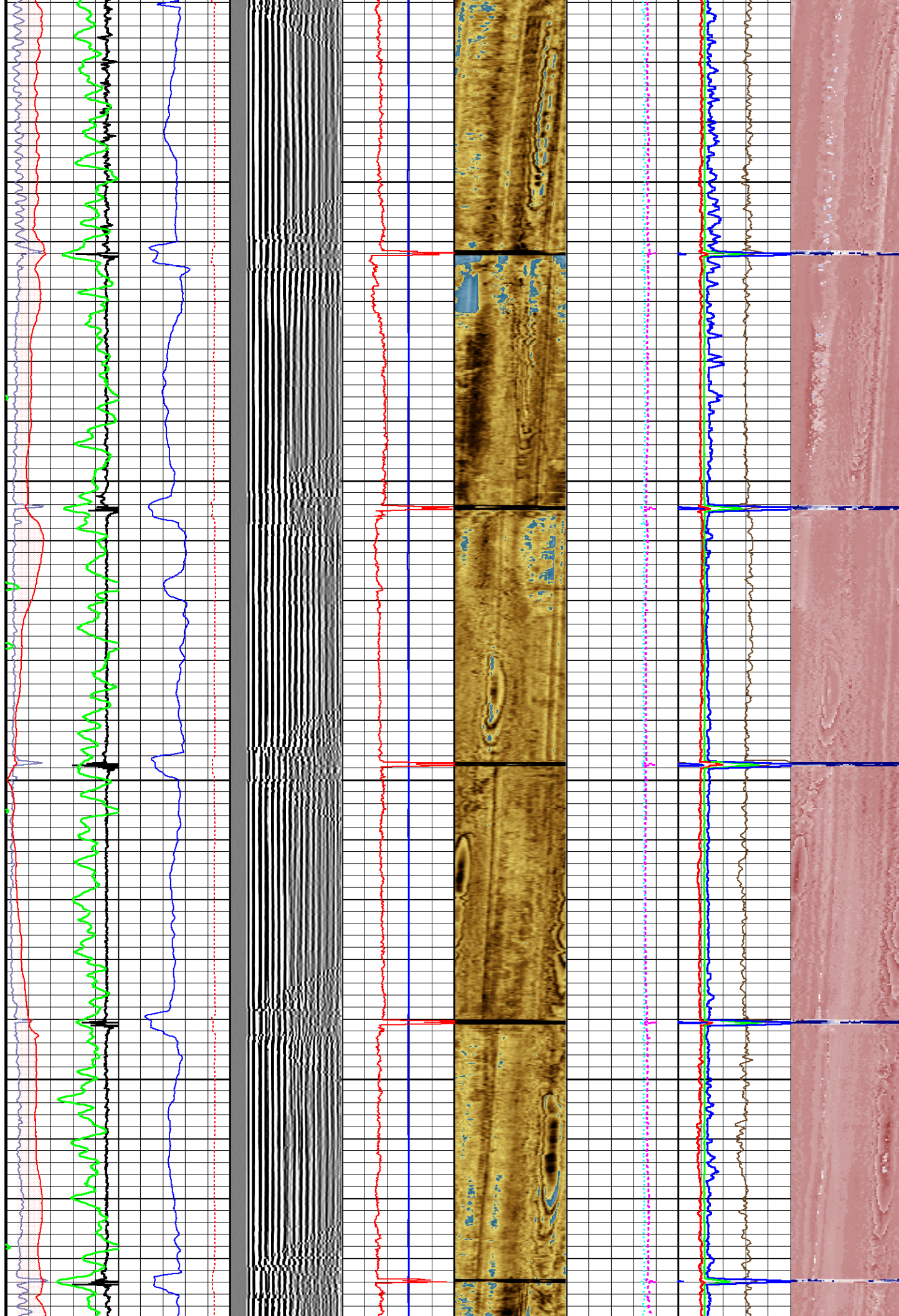


2750

2800

2850

2900



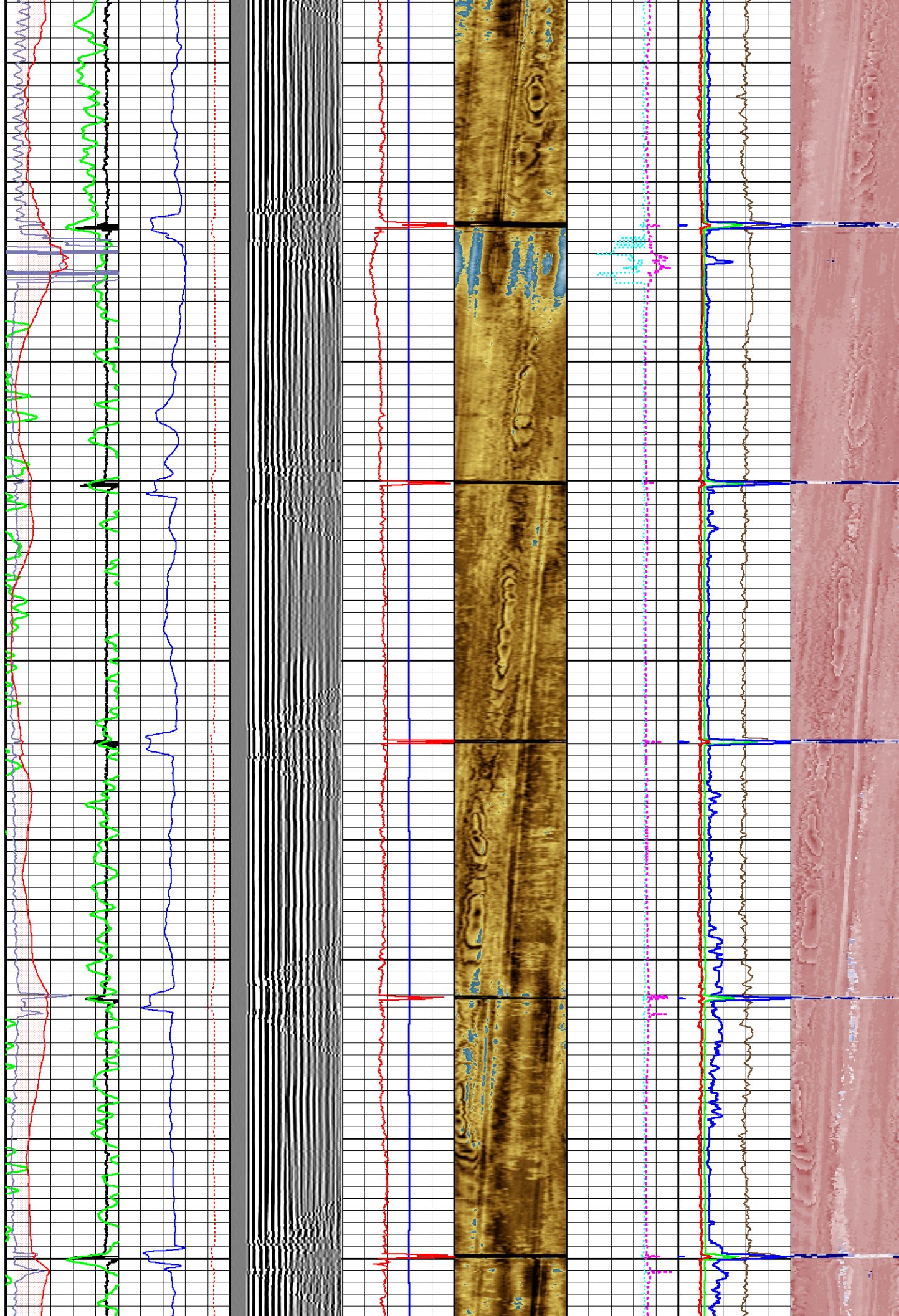
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3000

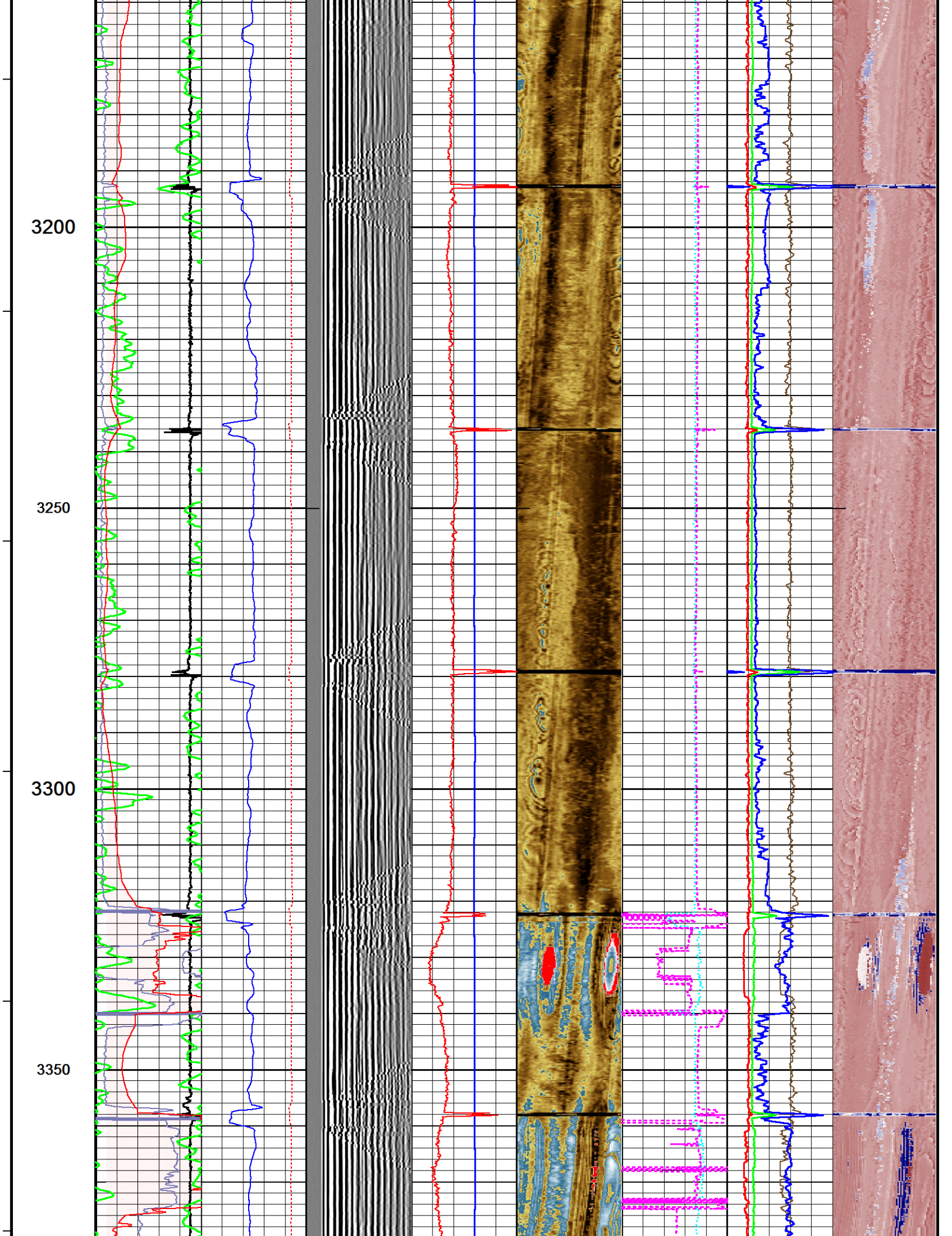
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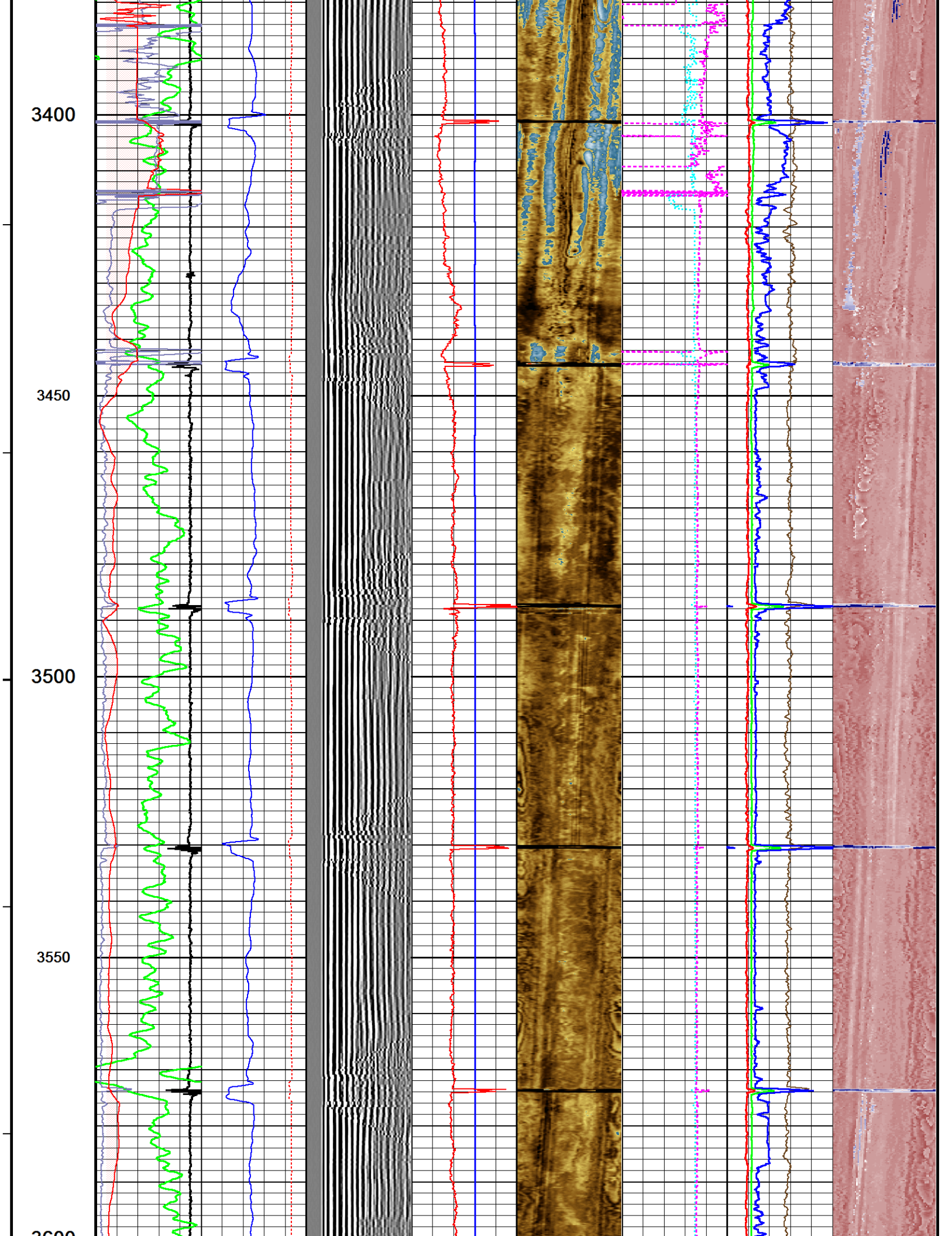
3100

3150

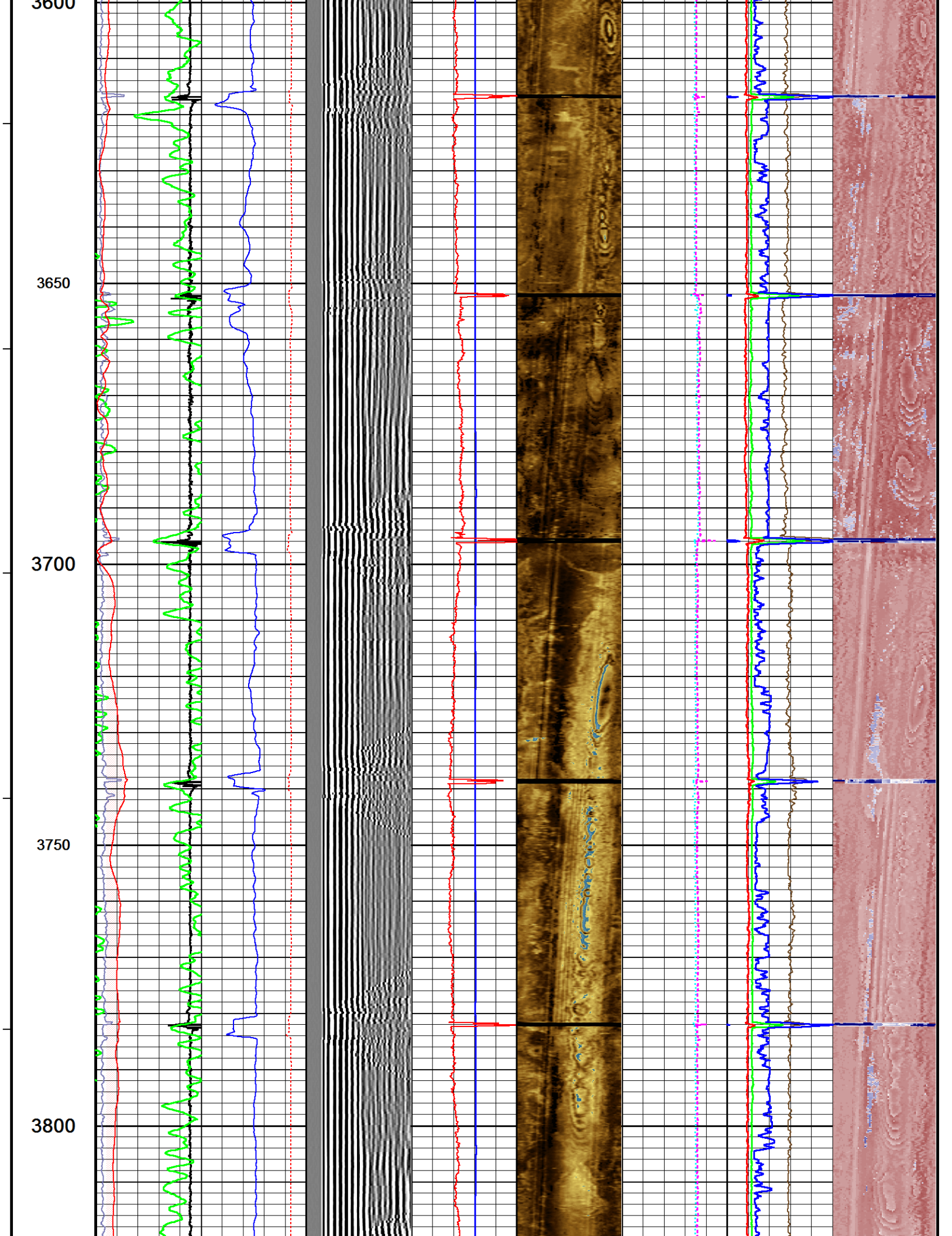










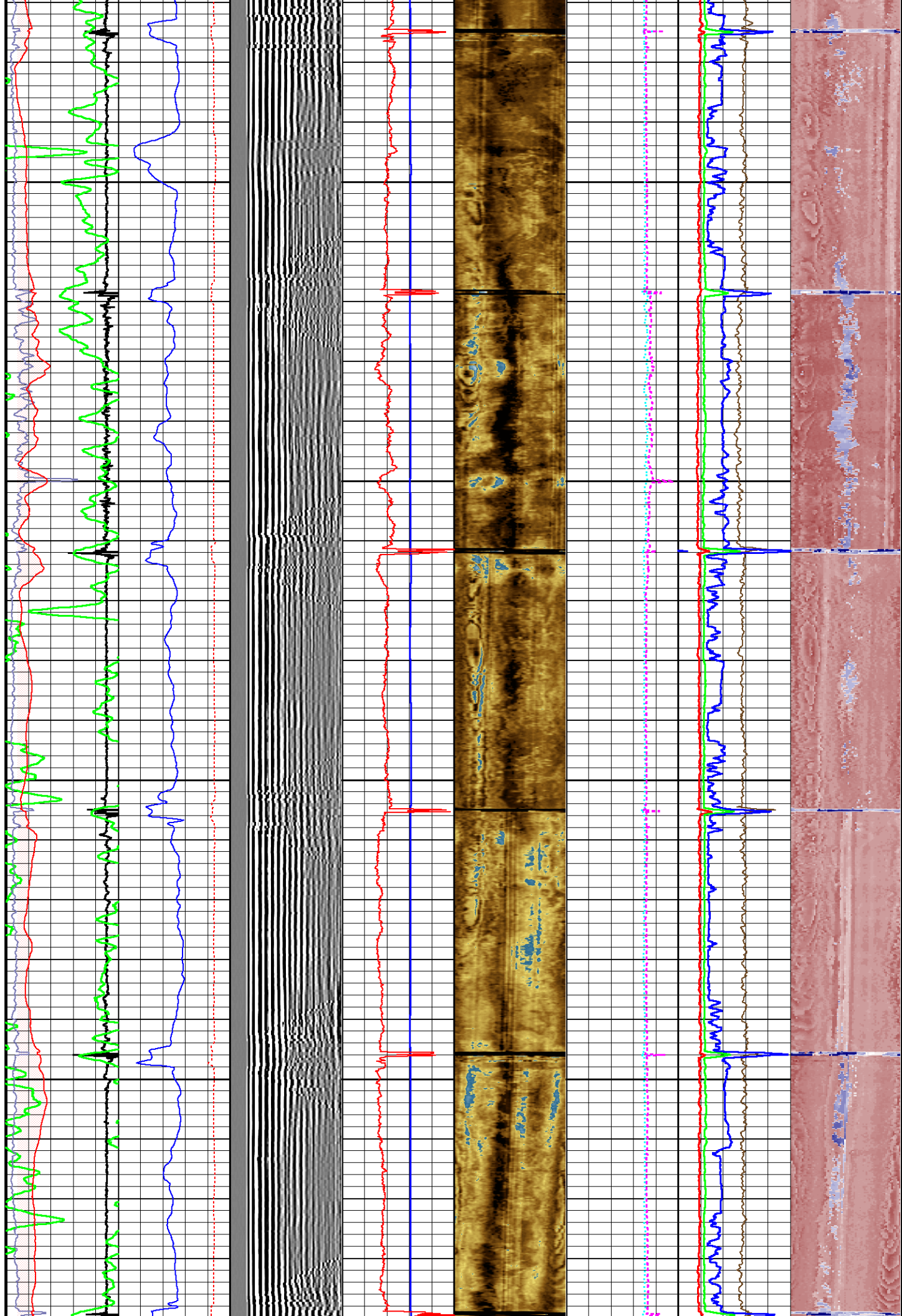


3850

3900

3950

4000





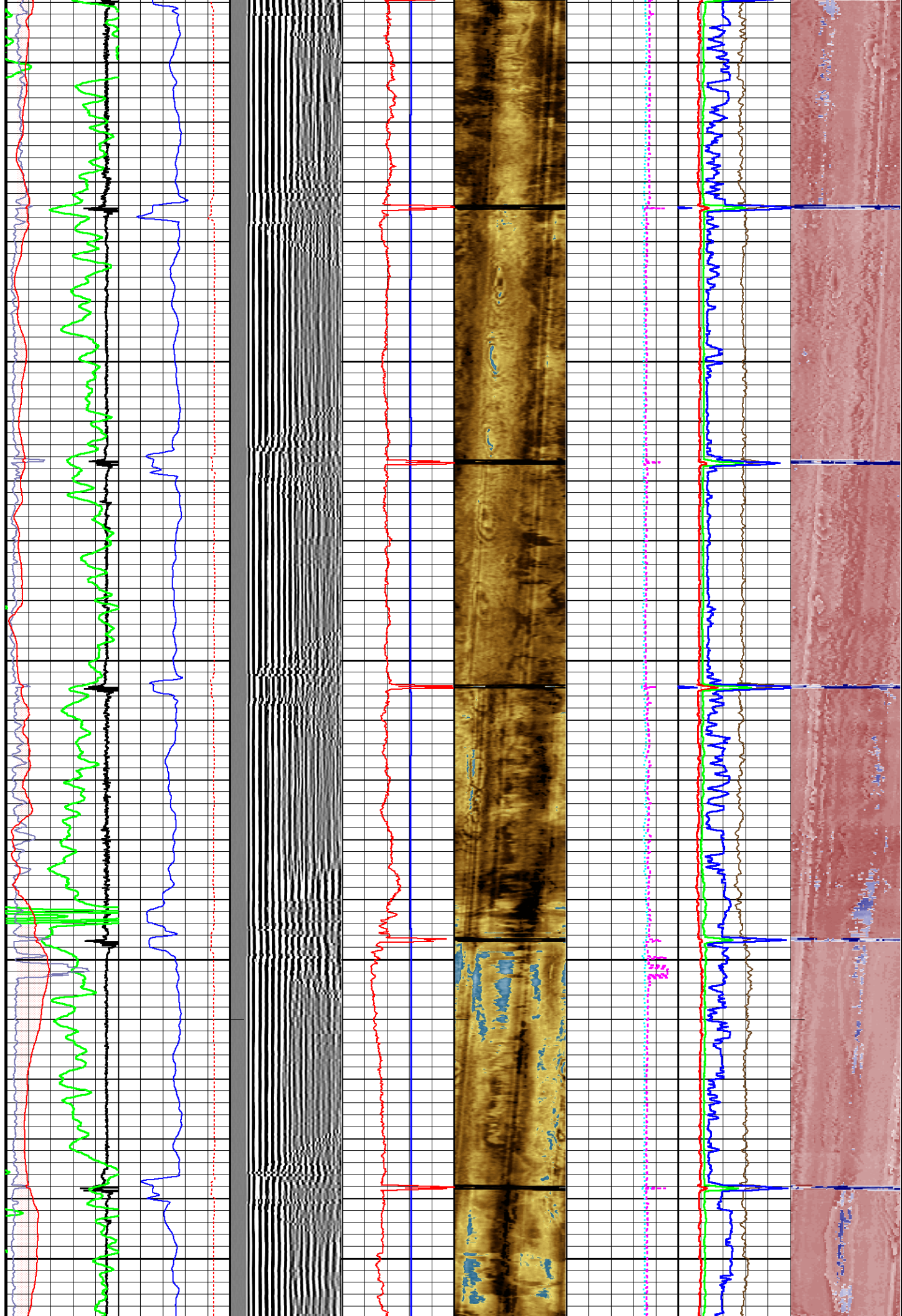
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4100

4150

4200

4250

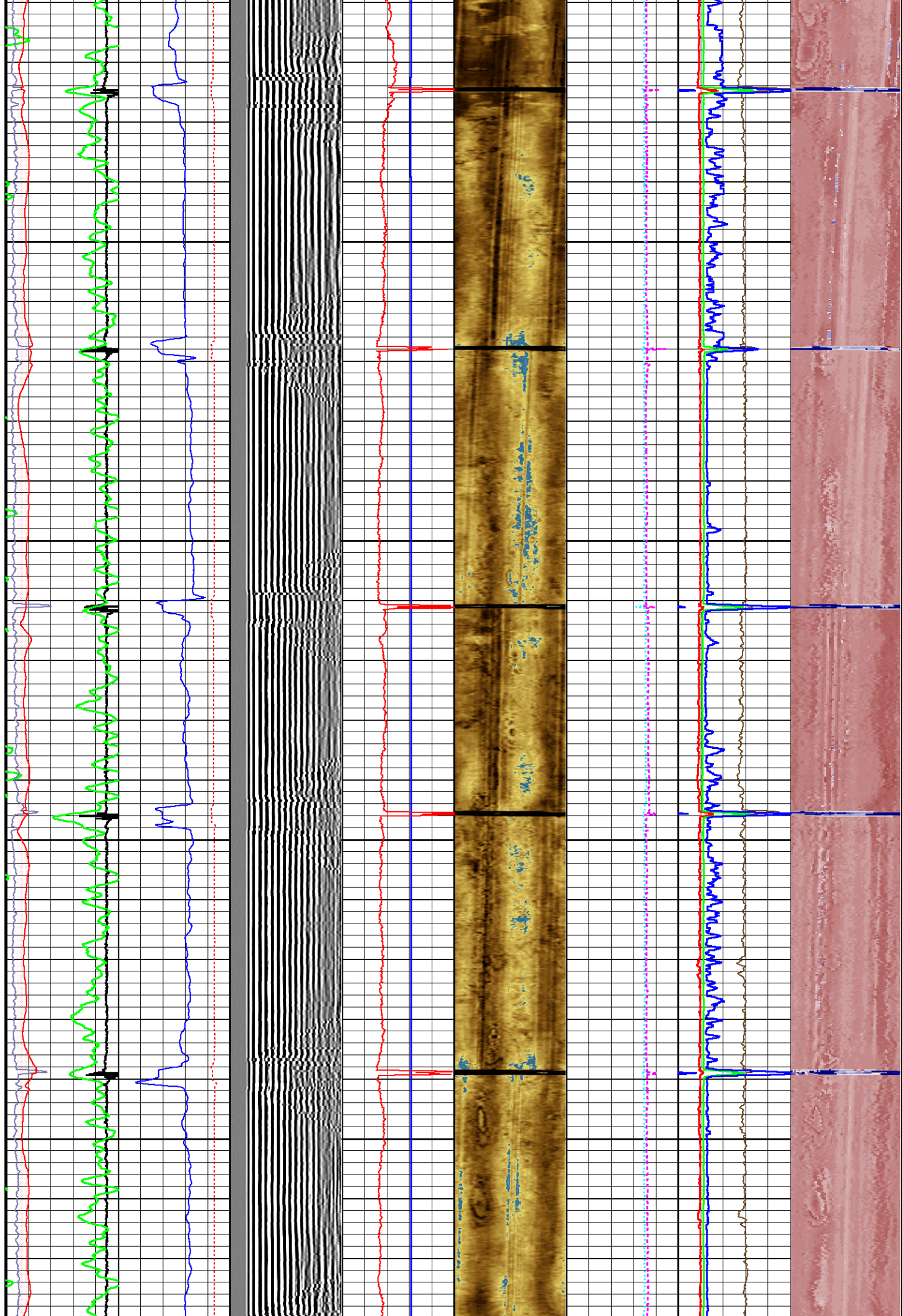


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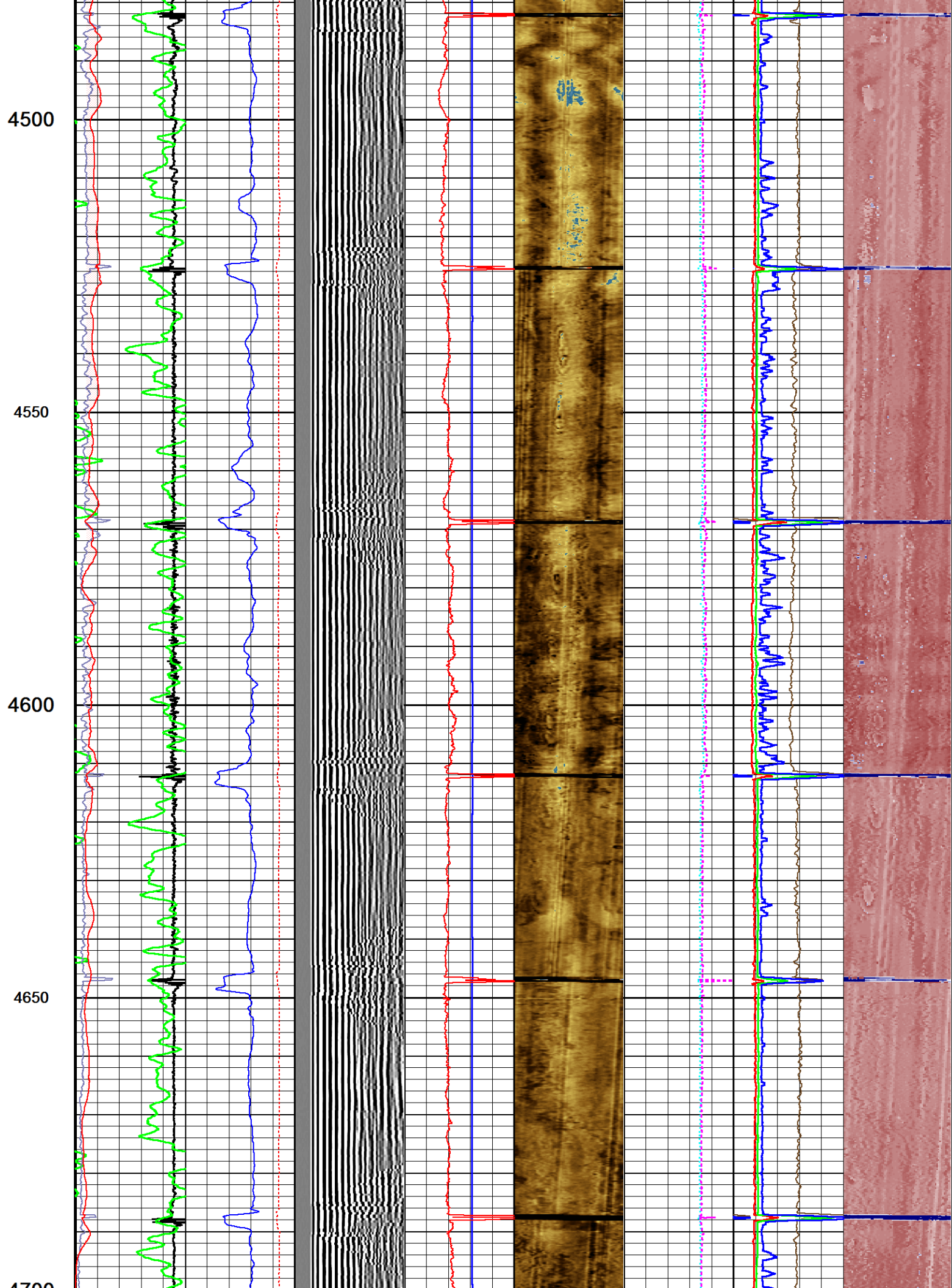
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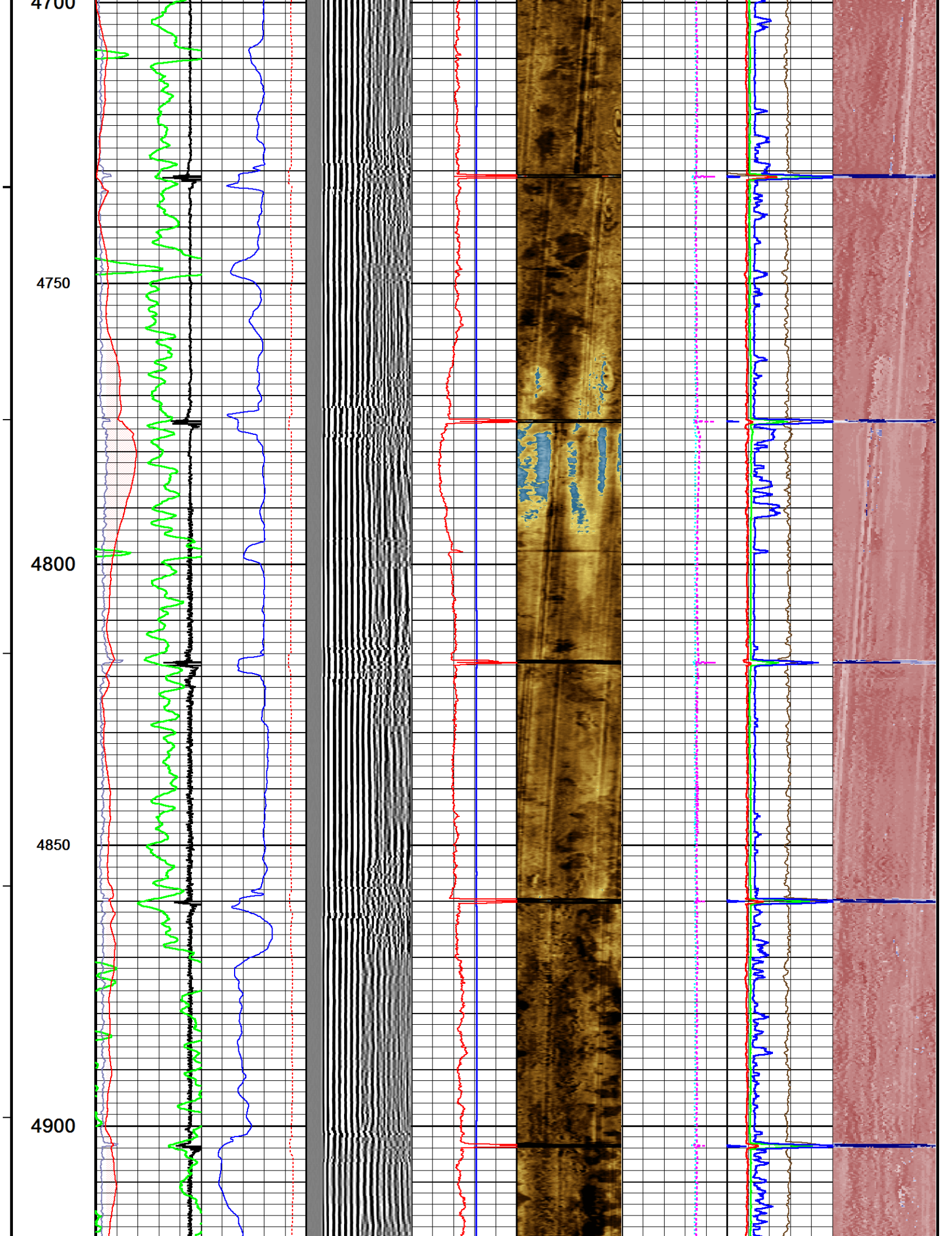
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4450

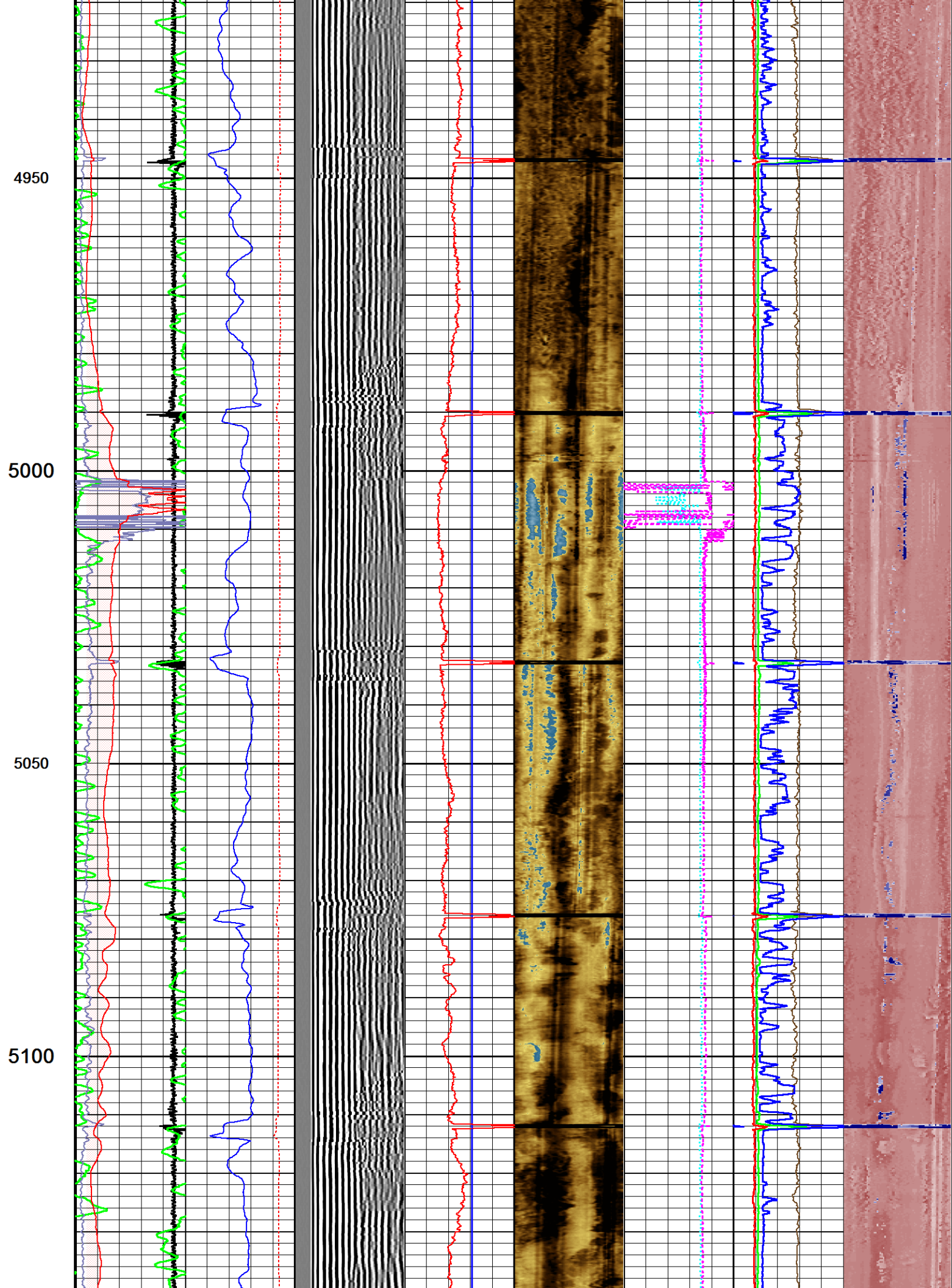


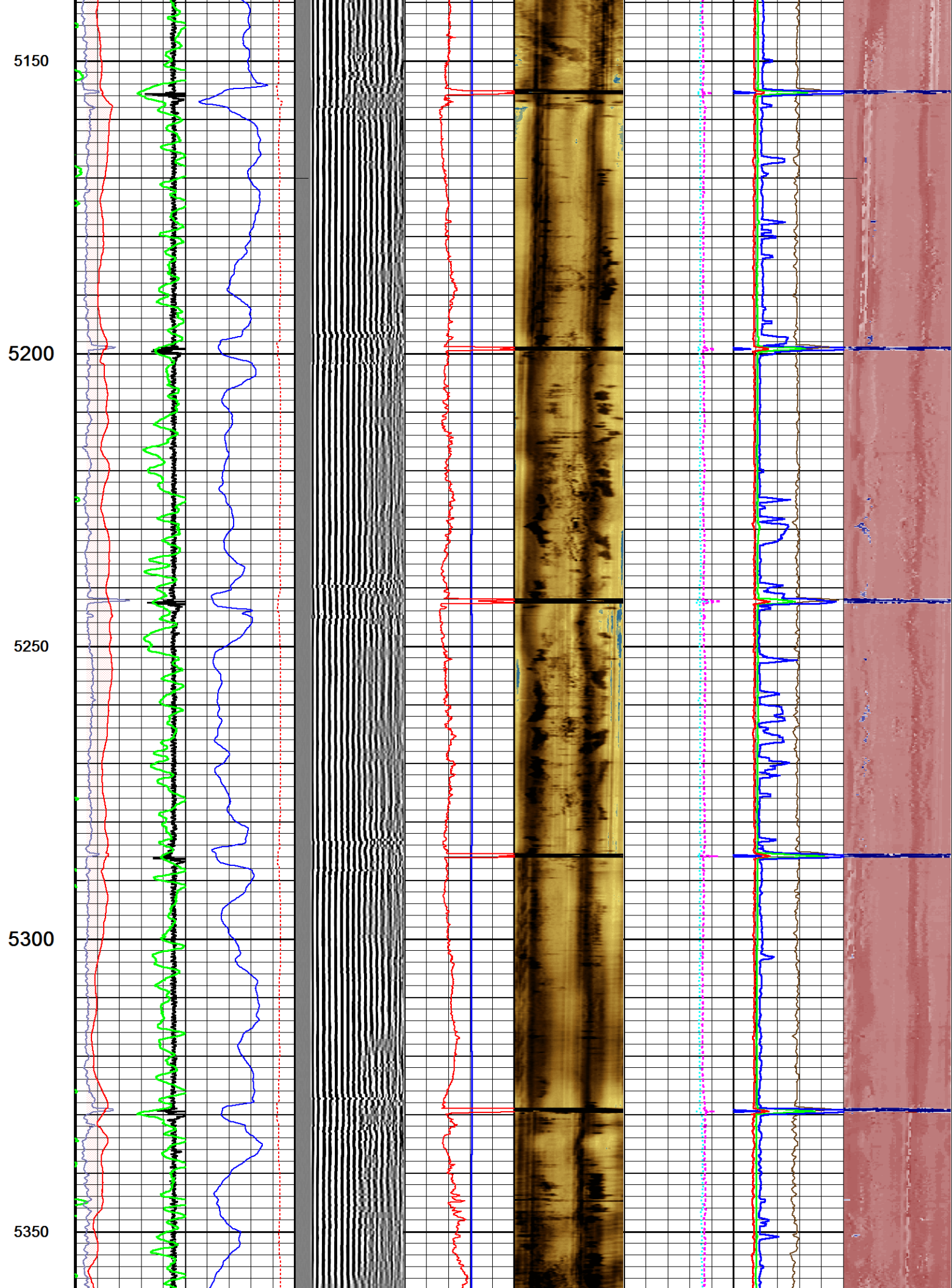












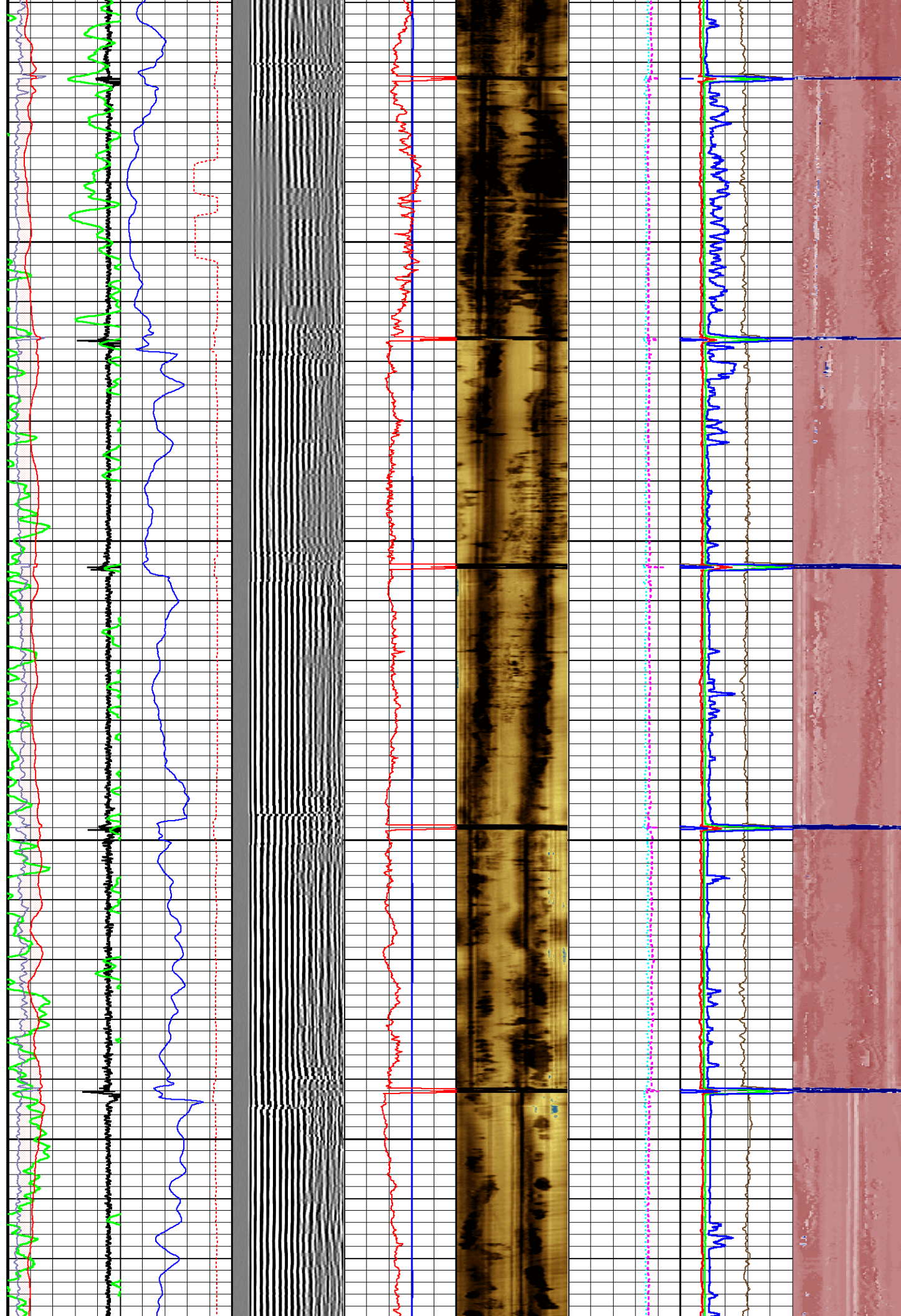


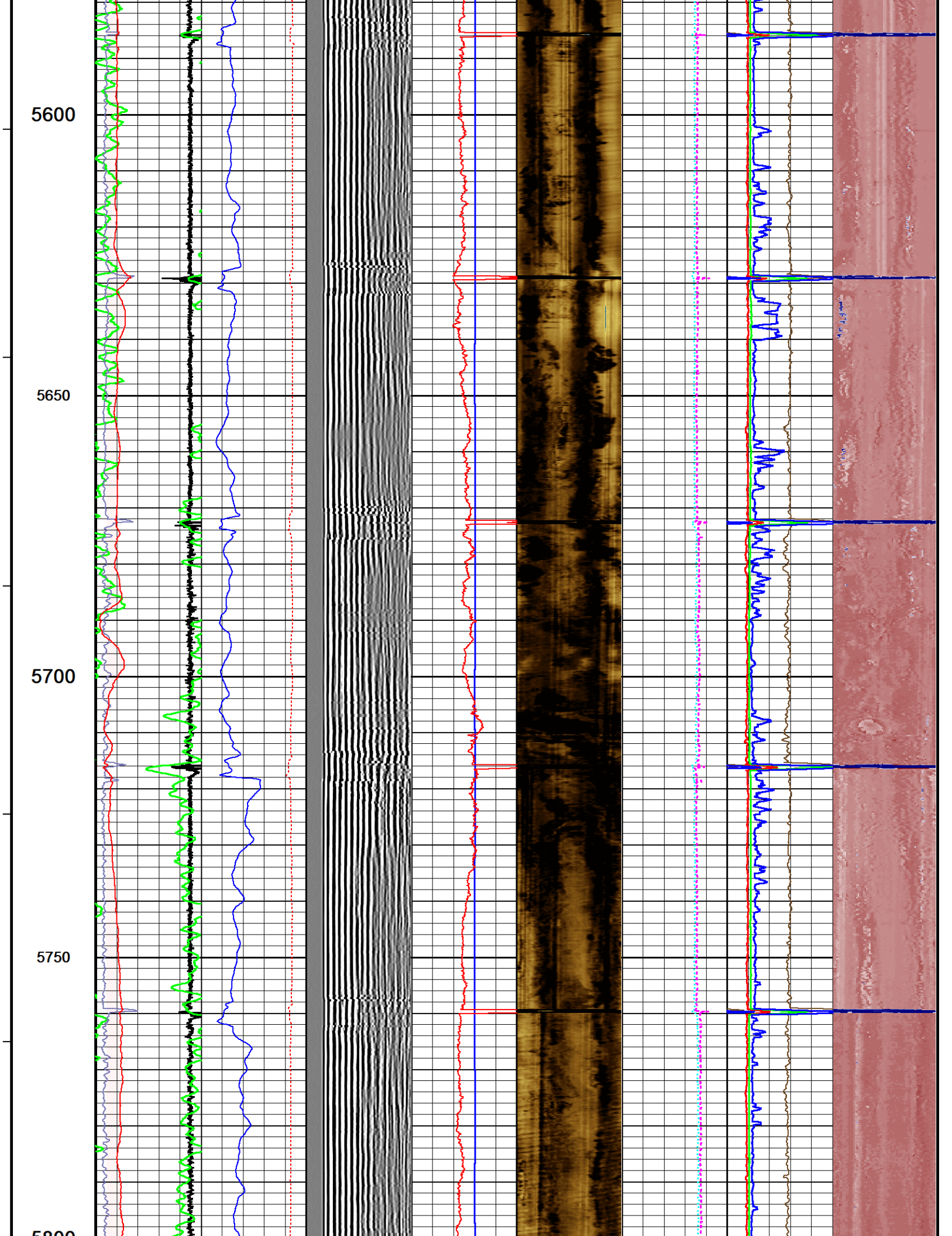
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5450

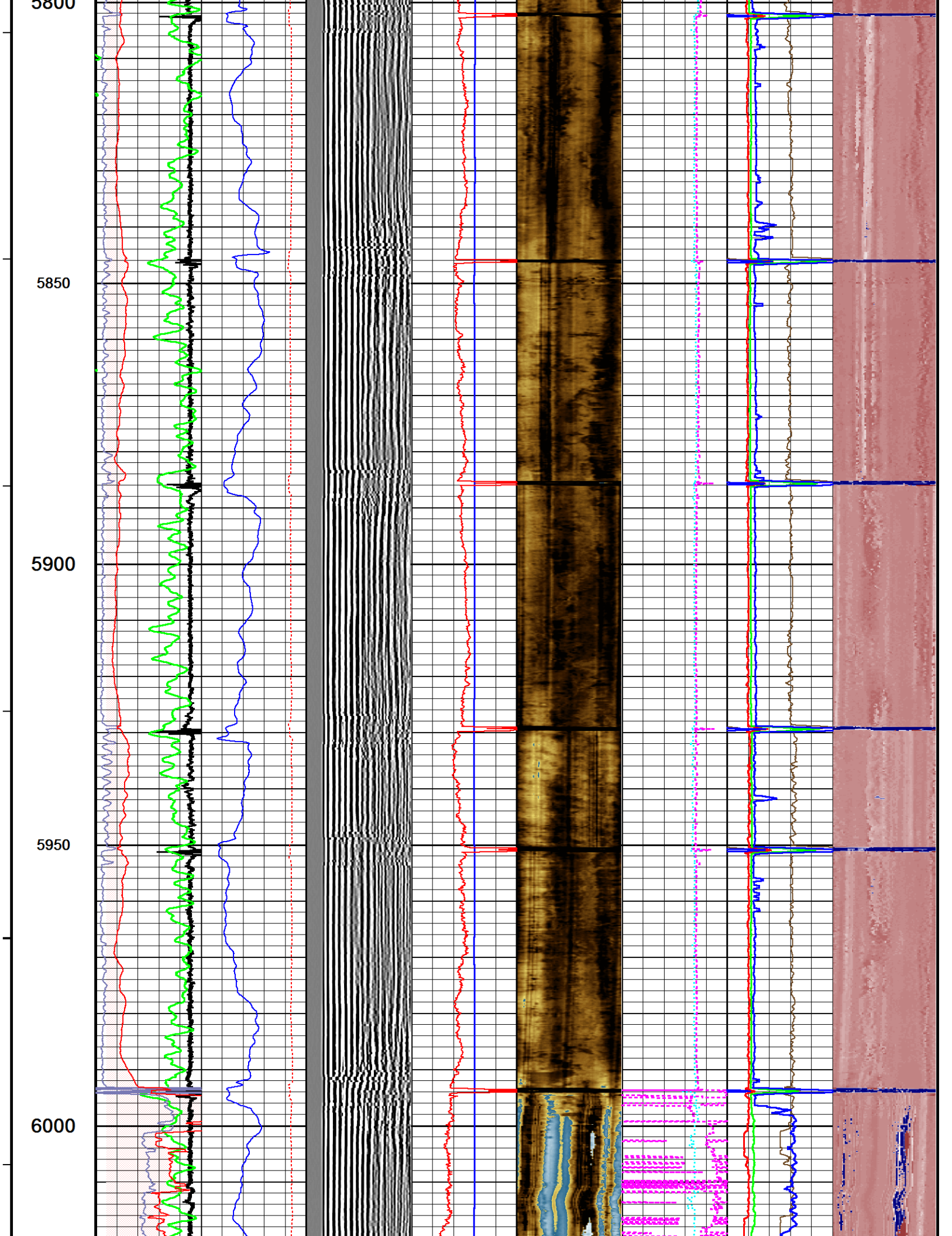
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5550









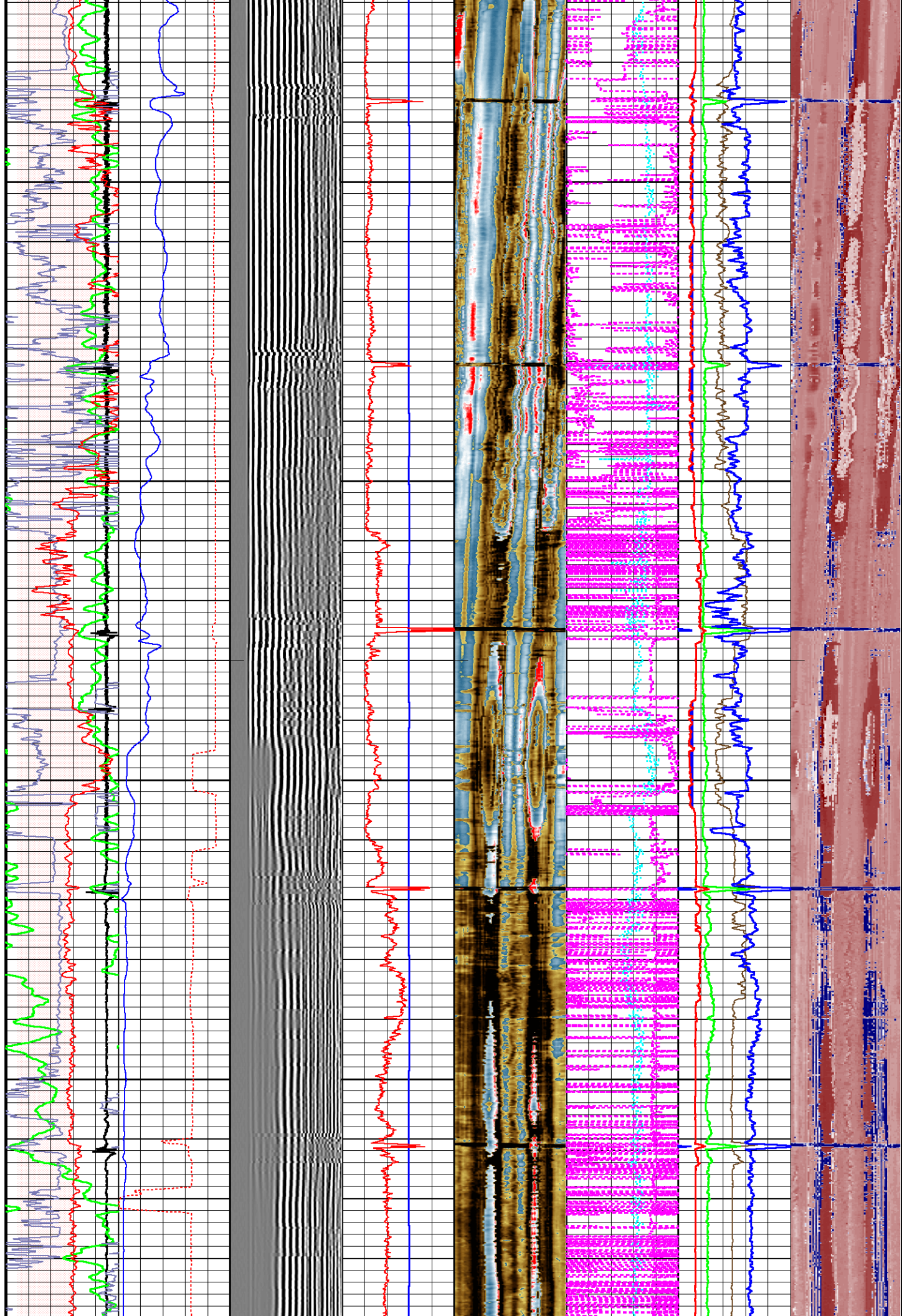


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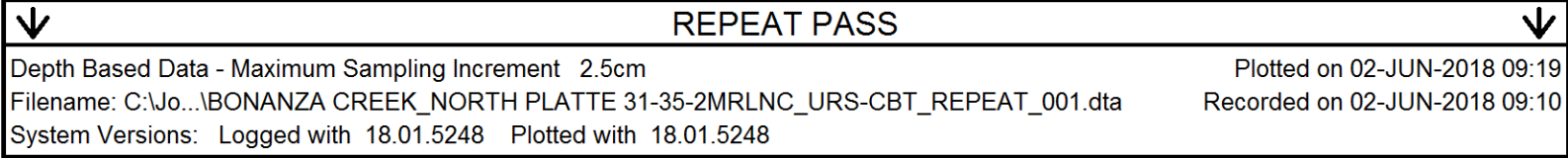
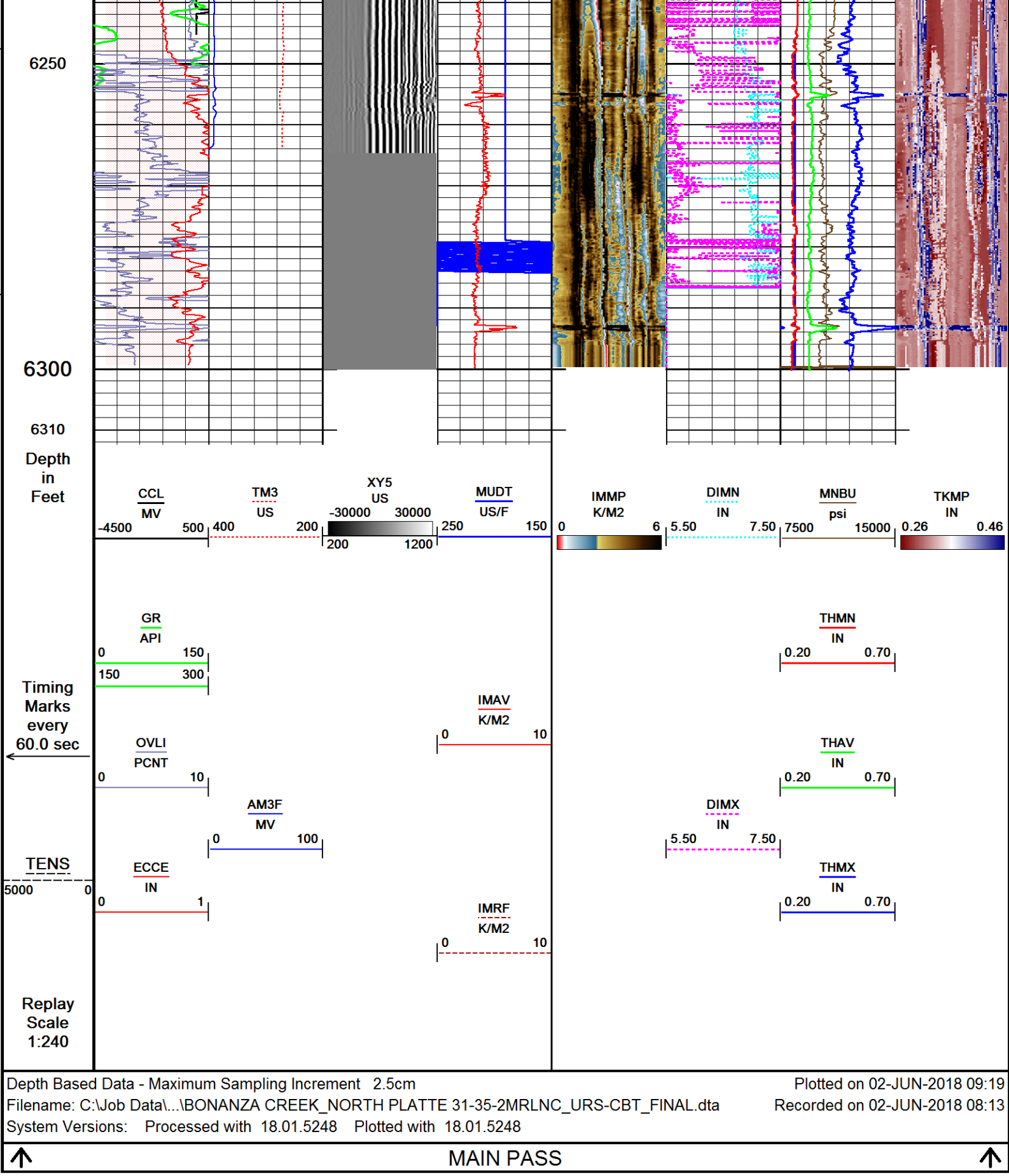
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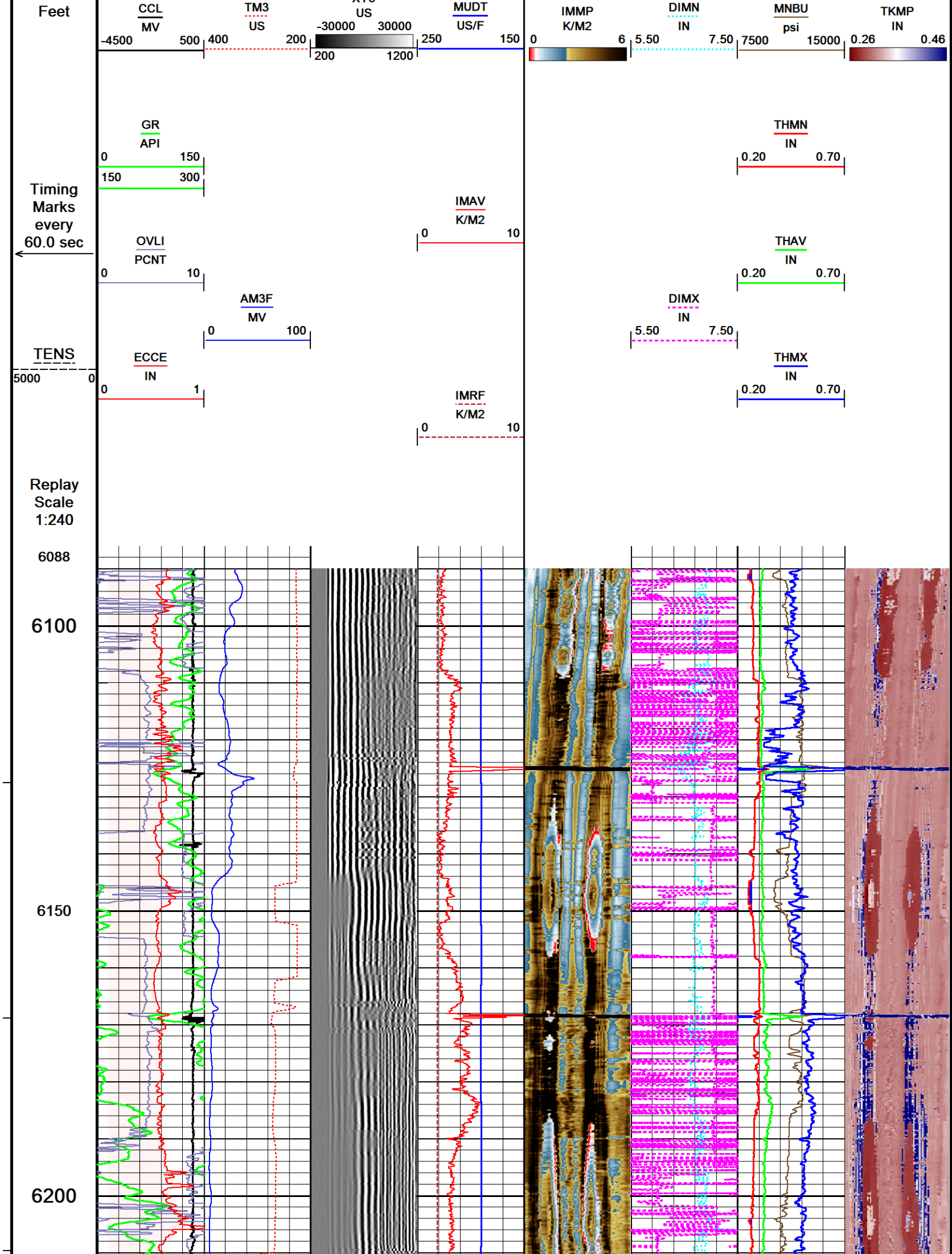
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6200

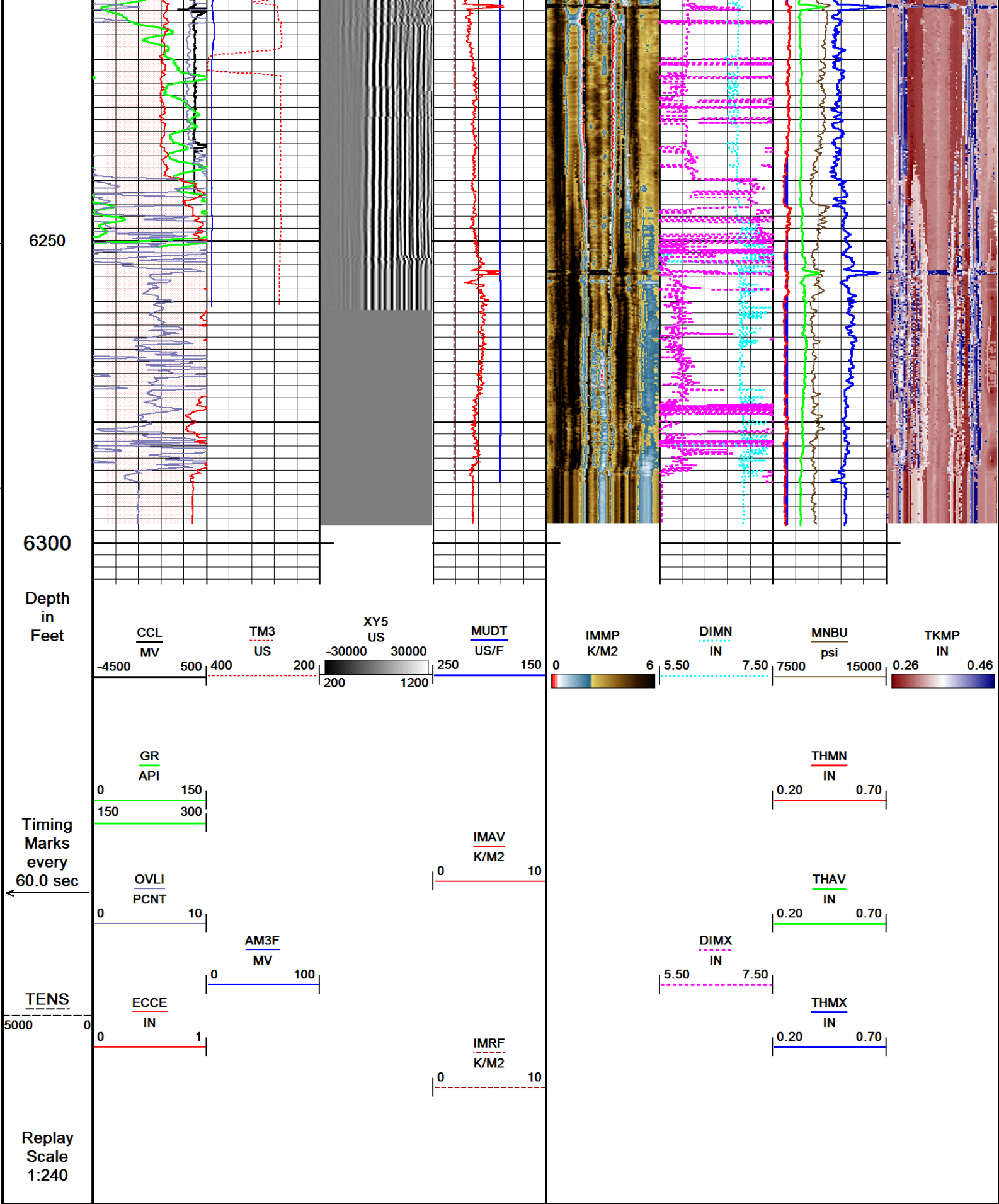












Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 02-JUN-2018 09:19

Filename: C:\Jo...\BONANZA CREEK\_NORTH PLATTE 31-35-2MRLNC\_URS-CBT\_REPEAT\_001.dta

Recorded on 02-JUN-2018 09:10

System Versions: Logged with 18.01.5248 Plotted with 18.01.5248

# DOWNHOLE EQUIPMENT

C:\Job Data\2018\Bonanza Creek\North Platte 31-35-... \BONANZA CREEK\_NORTH PLATTE 31-35-2MRLNC\_URS-CBT\_FINAL.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 119 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

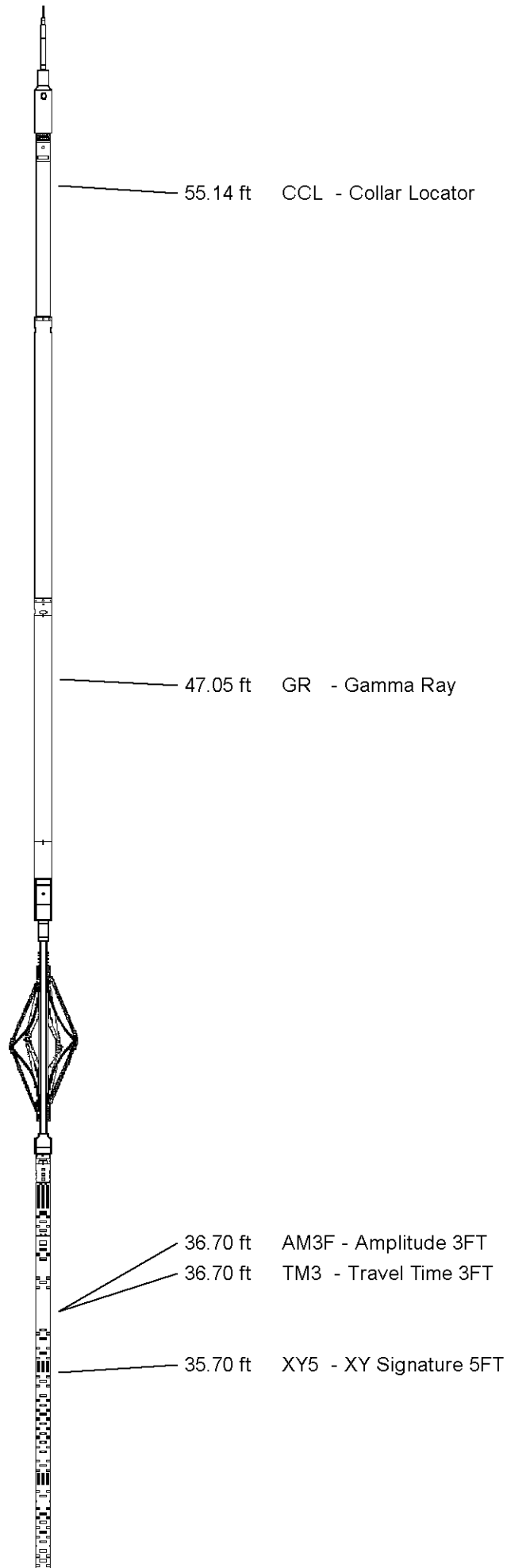
UGR-JD 135 LG: 4.60 ft WT: 81.6 lb OD: 3.390 in

## 55 pin Roller Centralizer

CEN-XA 196 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in

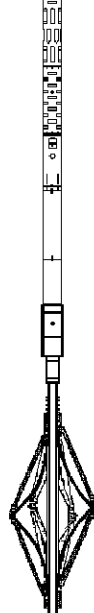
## Cement Bond Tool

CBT-AA 111 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in

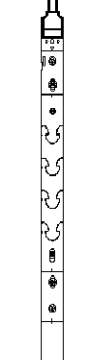




55 pin Roller Centralizer  
CEN-XA 225 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in



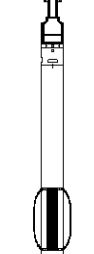
Flexible Joint, URS, 55 Pin  
FTP-FA 131 LG: 4.35 ft WT: 90.4 lb OD: 3.386 in



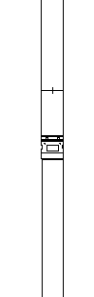
55 pin Roller Centralizer  
CEN-XA 213 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in



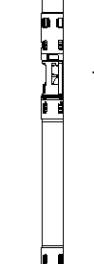
URS Electronics Cartridge  
UCC-AA 191 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in



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



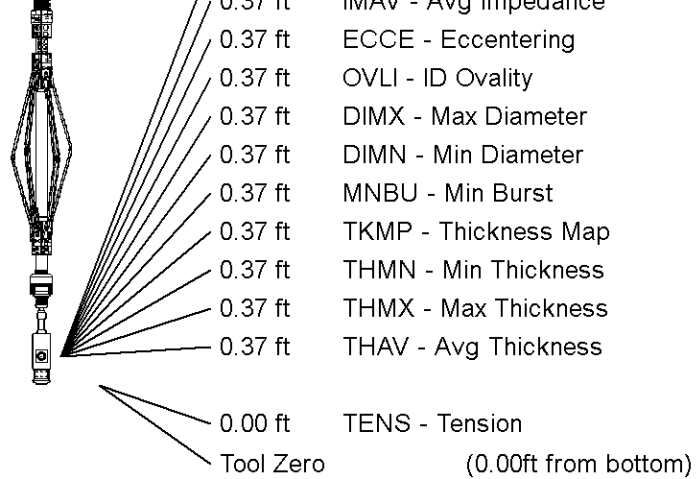
Ultrasonic Radial Scanner Head A  
USH-AB 136 LG: 1.03 ft WT: 13.2 lb OD: 3.386 in



Total Length: 58.06 ft Weight: 954.6 lb

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

0.37 ft IMMP - Impd Map  
0.37 ft IMAV - Avg Impedance



All measurements relative to tool zero.

## SHOP AND FIELD CALIBRATIONS

C:\Job Data\2018\Bonanza Creek\North Platte 31-35-... \BONANZA CREEK\_NORTH PLATTE 31-35-2MRLNC\_URS-CBT\_FINAL.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  
 Calibrator No:

Serial No: 135

Background	Calibrator	Standard	Units
0.0	140.0	140.0	CPS

Delta Counts Per Sec: 140.0

CPS/API = 1.000

CBT Field Calibration CBT-AA 111

Field calibration on 31-MAY-2018 08:12

### Cement Bond Tool Amplitude Field Calibration

Tool Type CBT-AA

Serial No 111

Free Pipe Depth

Sensor	Description	Standard(mv)	Measured(mv)
AMP 3 FT	100 % Bond	0.80	0.28
	Free Pipe	72.00	852.79
AMP 5 FT	100 % Bond	0.00	0.57
	Free Pipe	48.00	865.08

CBT Constants CBT-AA 111

Last Edited on 02-JUN-2018 08:40

Min Ampl 100% Bond	3.06 MV
Max Ampl 0% Bond	71.77 MV
Cement Cmpr Strength	1000 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 31-MAY-2018 08:16

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 02-JUN-2018 08:40

\*\*\* 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	2.65
ZMud Cal Area Ratio	4.10

\*\* 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	1537.00	5.50	36.00	1.50	1.50	0.30	1.00
0.00	11589.00	5.50	17.00	1.50	1.50	0.30	1.00


\*\* Constants \*\*

Thickness Calculated from	Tool
Radius Offset	-0.76
Mud slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.50 K/M2
Z_mud Outside	1.50 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

COMPANY	BONANZA CREEK ENERGY		
WELL	NOTH PLATTE 31-35-2MRLNC		
FIELD	WATTENBERG		
PROVINCE/COUNTY	WELD		
COUNTRY/STATE	UNITED STATES / COLORADO		

Elevation Kelly Bushing	4567	feet	Bottom Log Interval	6300.00	feet
Elevation Drill Floor	4567	feet	Depth Driller	11589.00	feet
Elevation Ground Level	4550	feet	Depth Logger	6300.00	feet



SECUREVIEW

ULTRAVIEW / BONDVIEW

LOG