 Weatherford®				SECUREVIEW ULTRAVIEW / BONDVIEW LOG			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				BONANZA CREEK ENERGY NORTH PLATTE P31-T34-28 HNB WATTENBERG WELD USA / COLORADO 326° FNL 370° FEL			
SEC 28	TWP 5N	RGE 63W	Other Services CALVIEW				
Latitude Longitude		API Number		05-123-46921			
Permanent Datum GL, Elevation 4548 feet Log Measured From KB, 17.00 feet above Permanent Datum Drilling Measured From KB						Elevations: KB 4565.00 DF 4565.00 GL 4548.00	
Date				03-NOV-2018			
Run Number				ONE			
Service Order				18200-228439666			
Type Log				URS/CBT			
Depth Driller				11692.00			
Depth Logger				6255.00			
Top Log Interval				0.00			
Bottom Log Interval				6255.00			
Hole Fluid Type				WATER			
Hole Fluid Level				54.00			
Restriction ID				4.892			
Max Recorded Temp				190.00			
Well Head Pressure				0.00			
Well Head Equipment				7 1/16" 5K			
Time Well Ready				ROA			
Time Logger Bottom				SEE LOG			
Unit				14122			
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	1637.00	36.00
PRODUCTION	P-110	LTC	5.500	0.00	11682.00	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



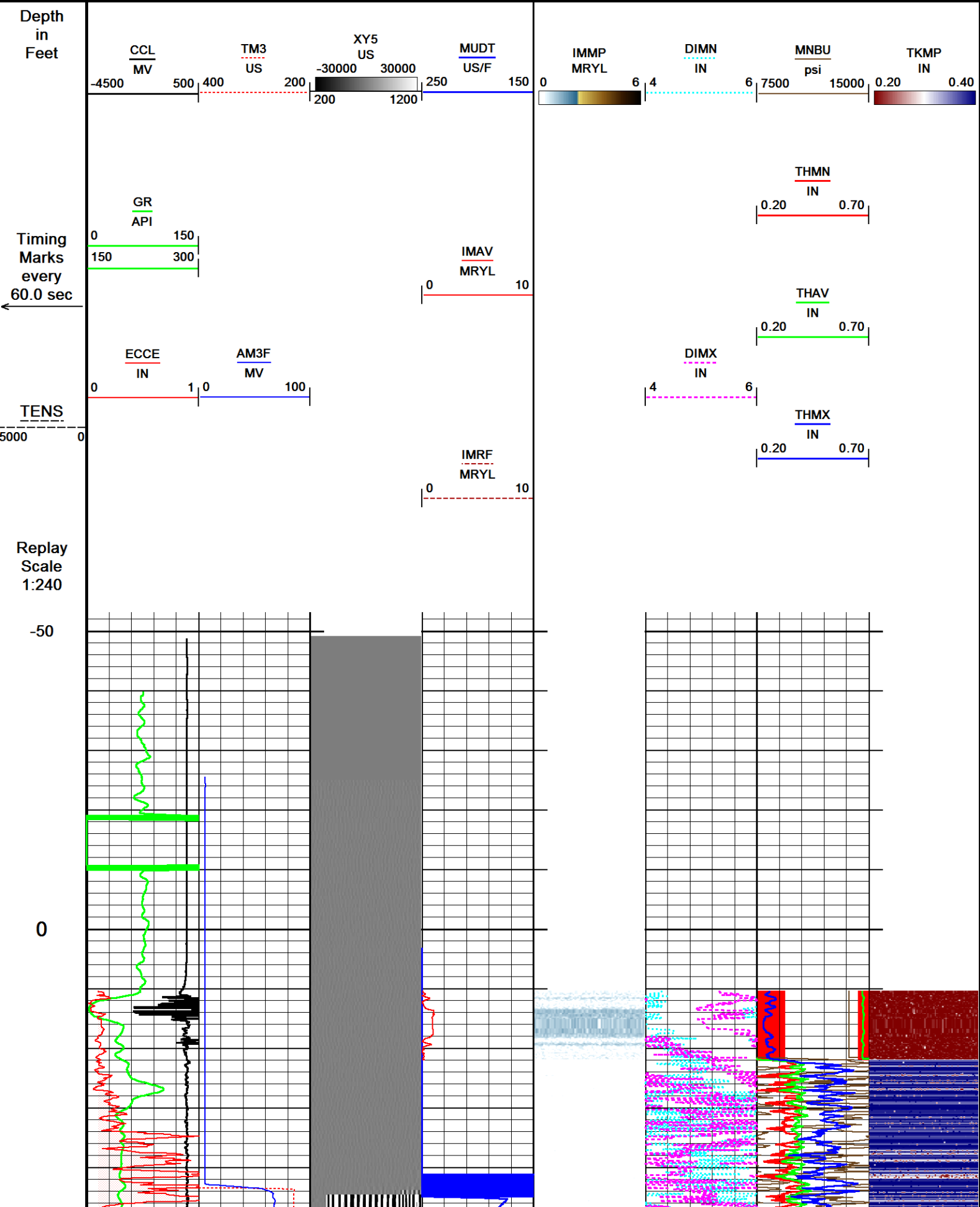
Depth Based Data - Maximum Sampling Increment 2.5cm

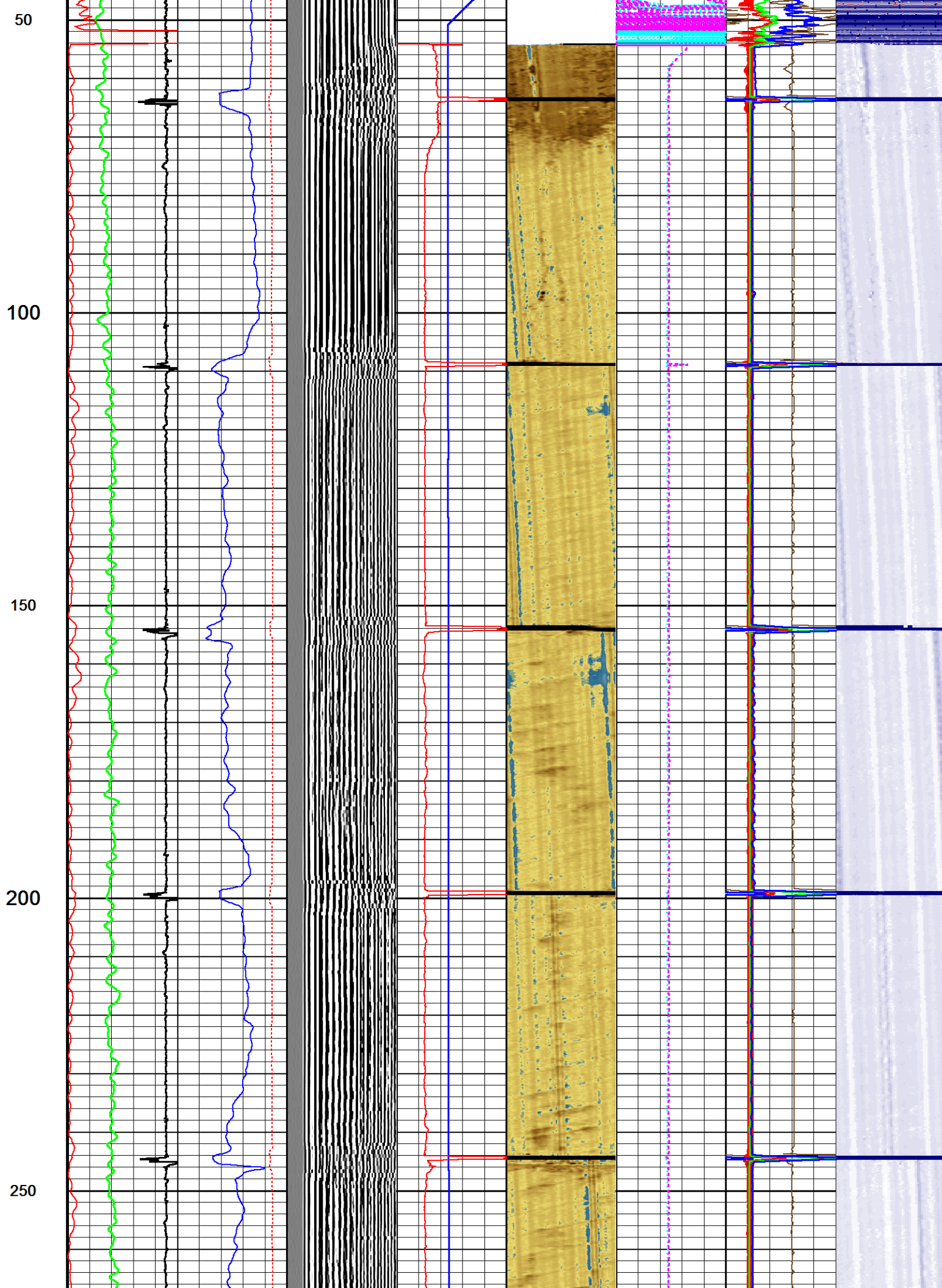
Plotted on 03-NOV-2018 11:01

Filename: C:\LOGS\BONANZA CREEK\9 WELL PAD\11-3-2018\NORTH PLAT...\MAIN PASS_001.dta

Recorded on 03-NOV-2018 10:13

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



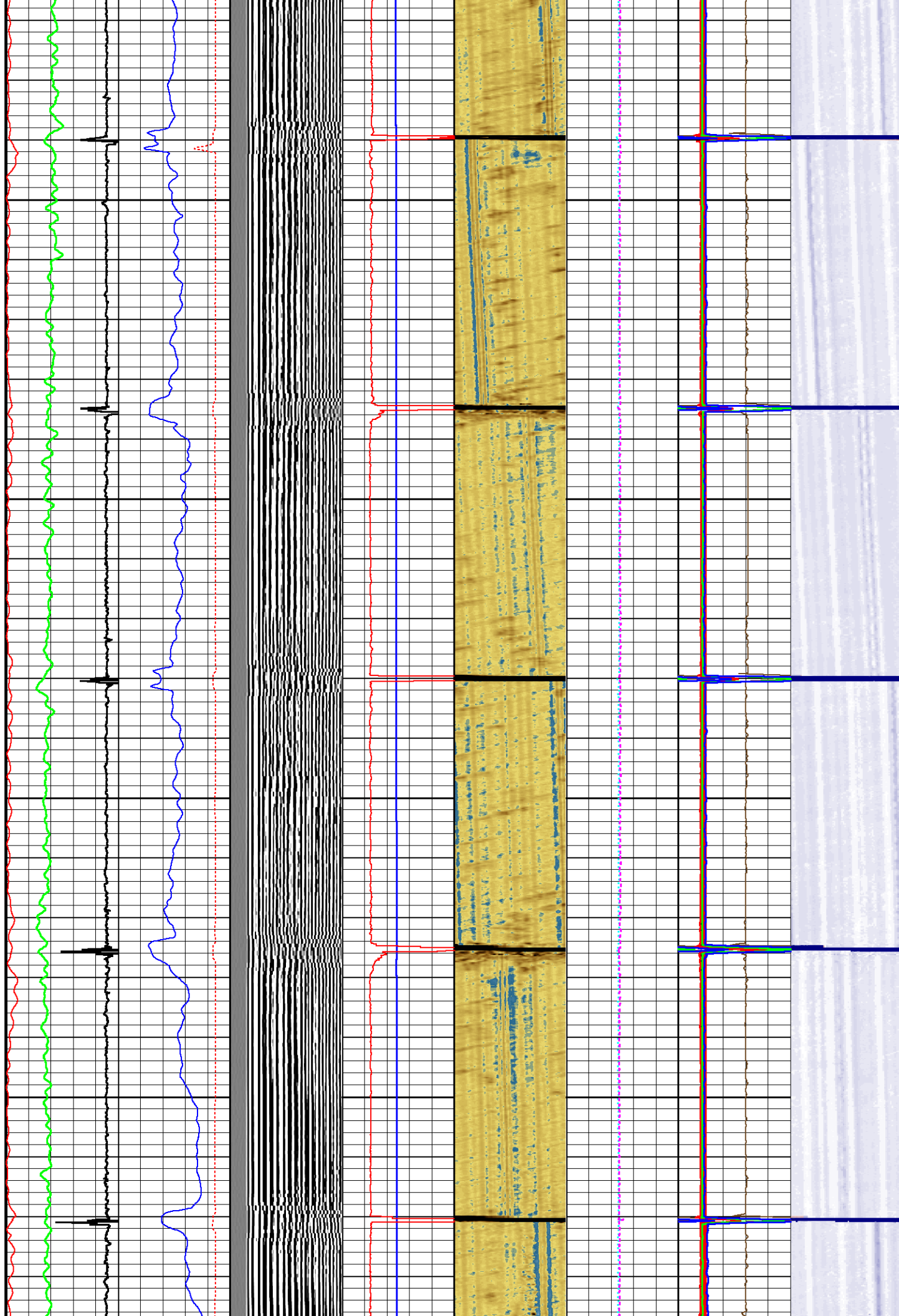


300

350

400

450



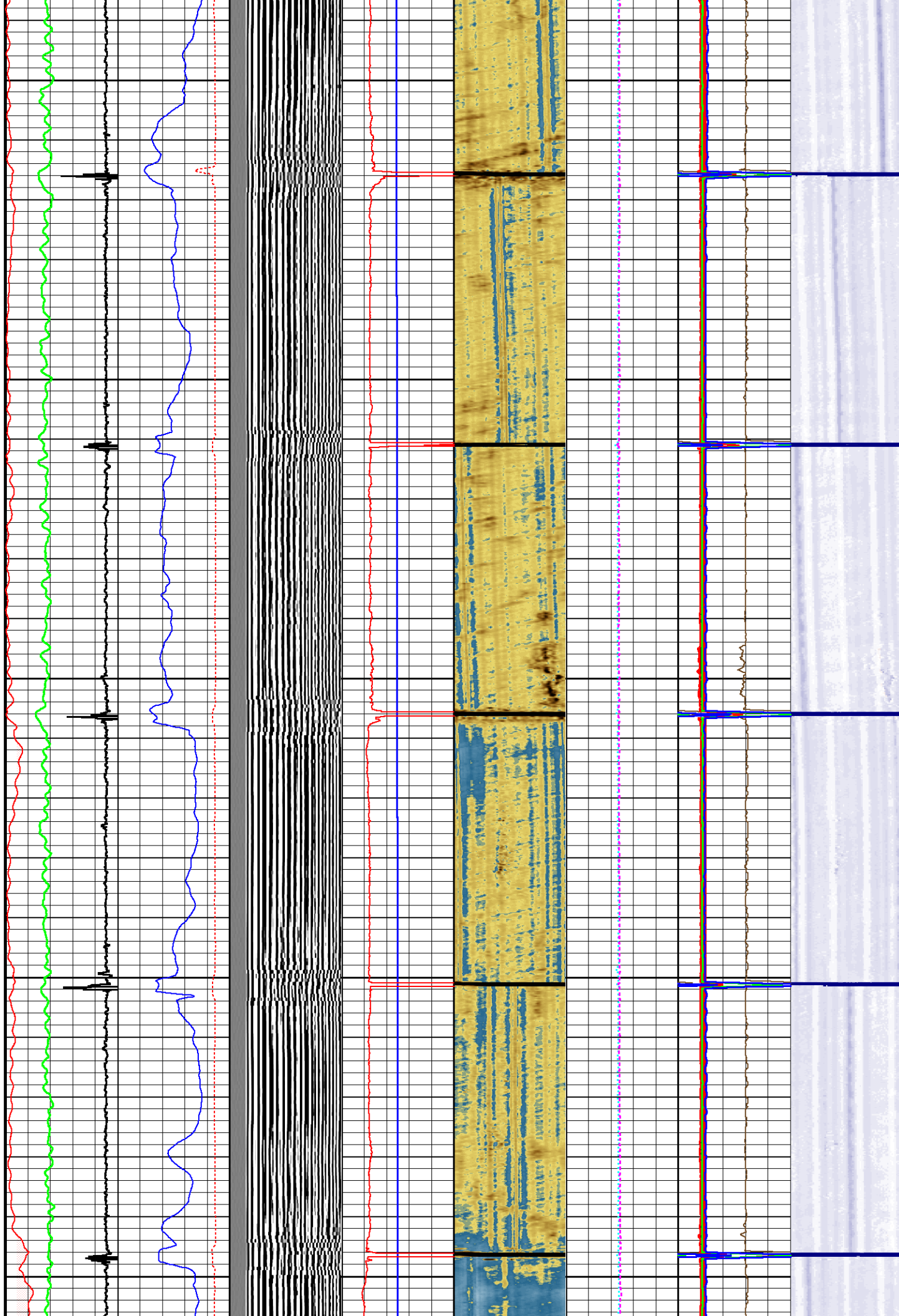
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550

600

650

700

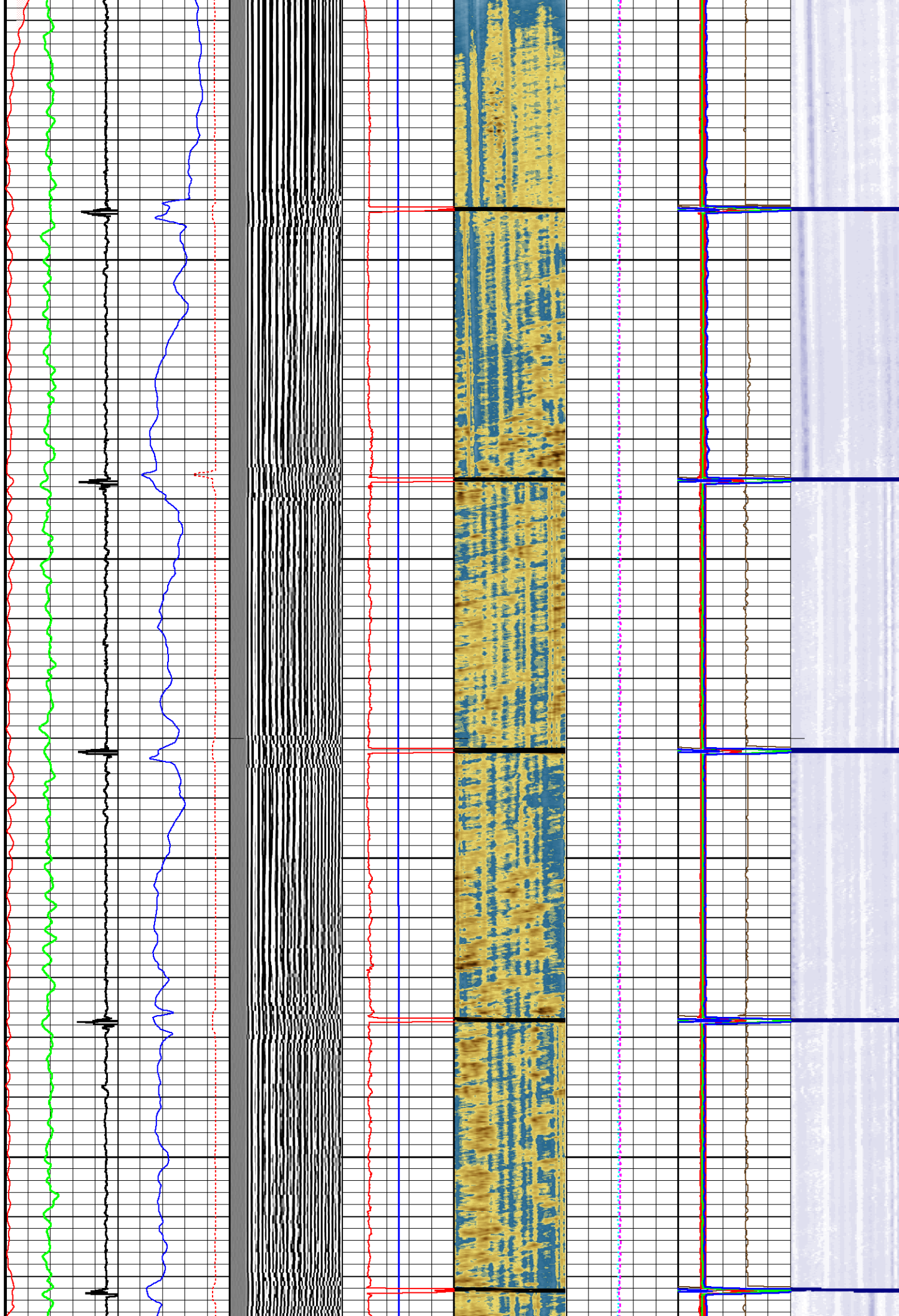


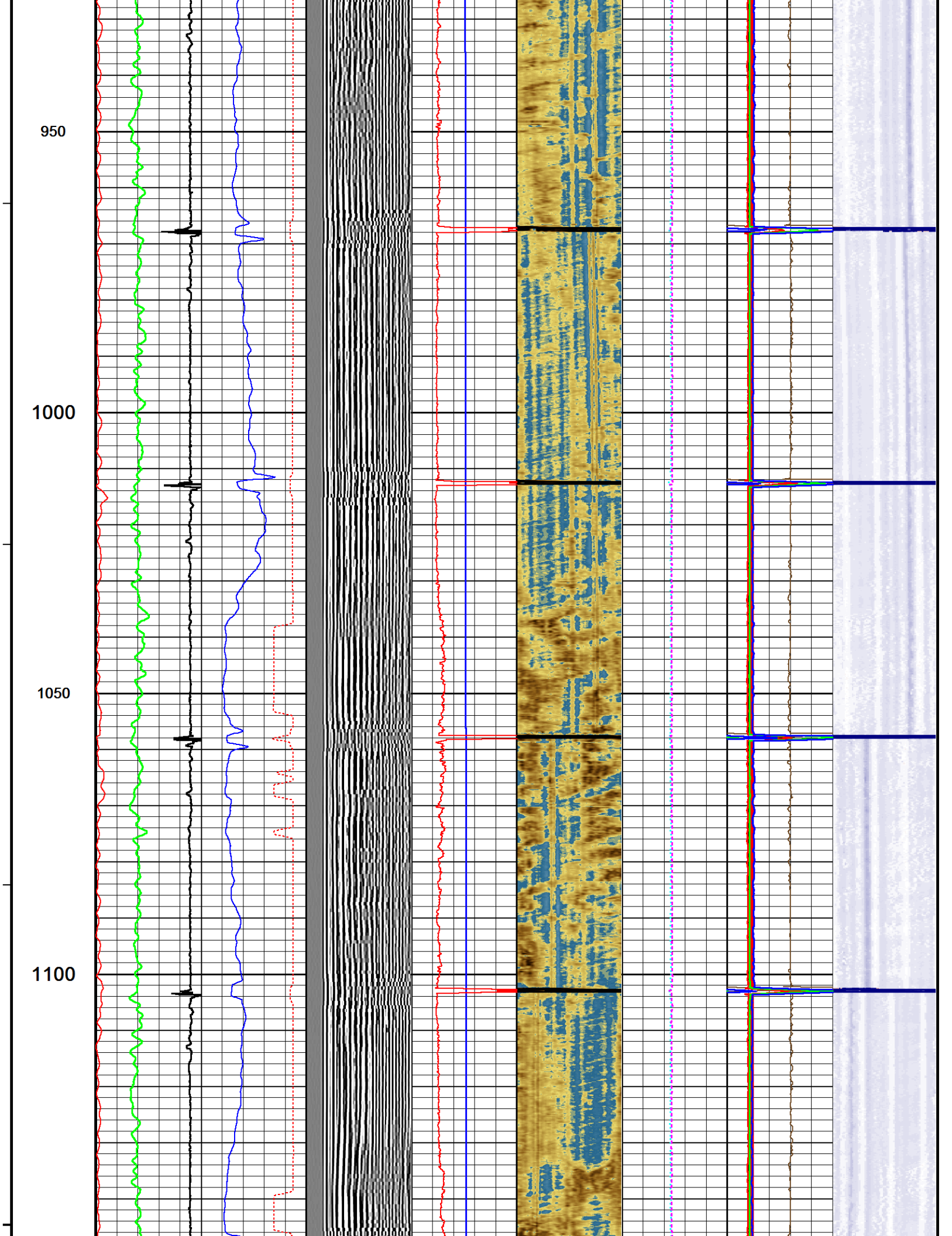
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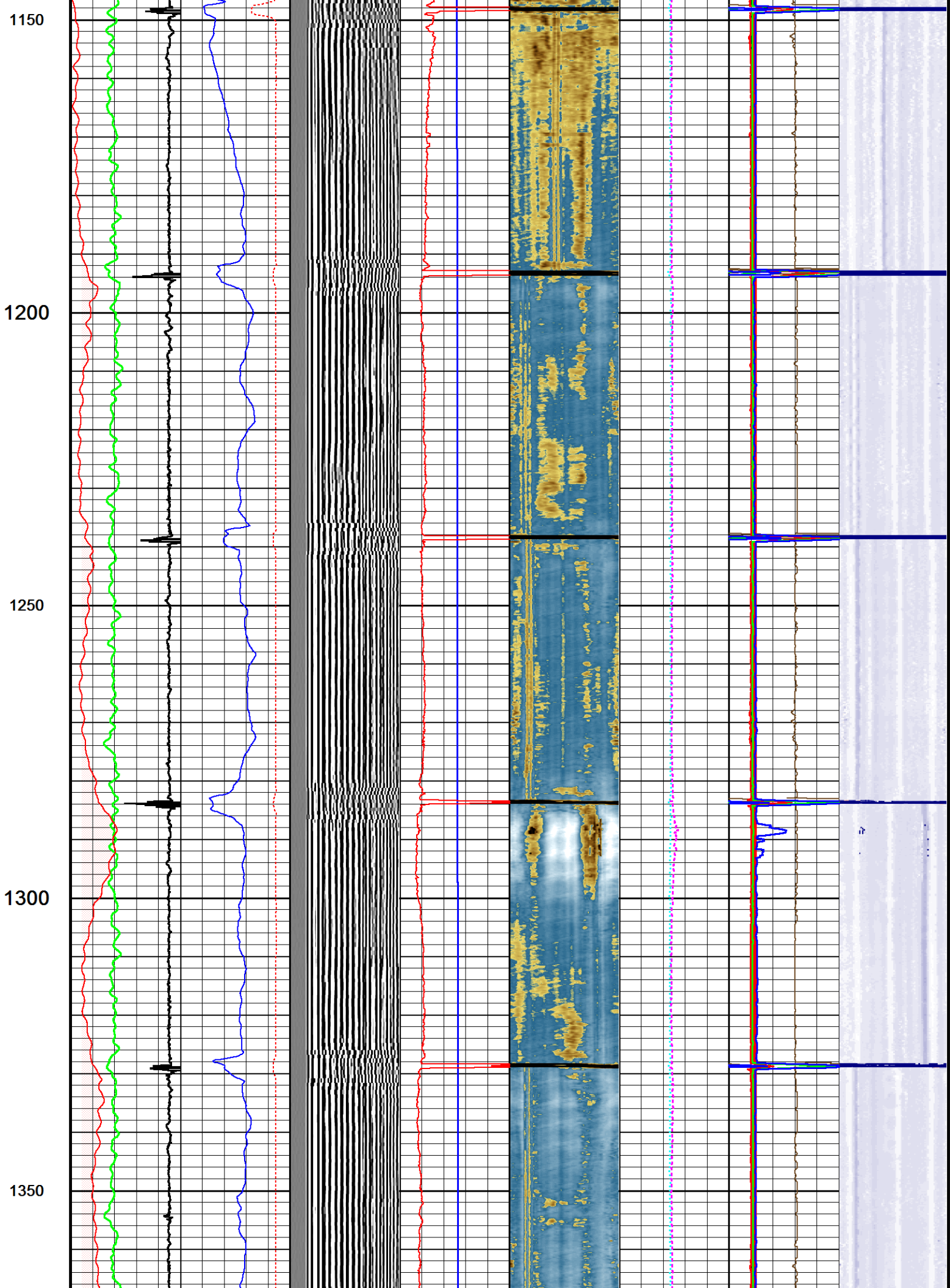
800

850

900





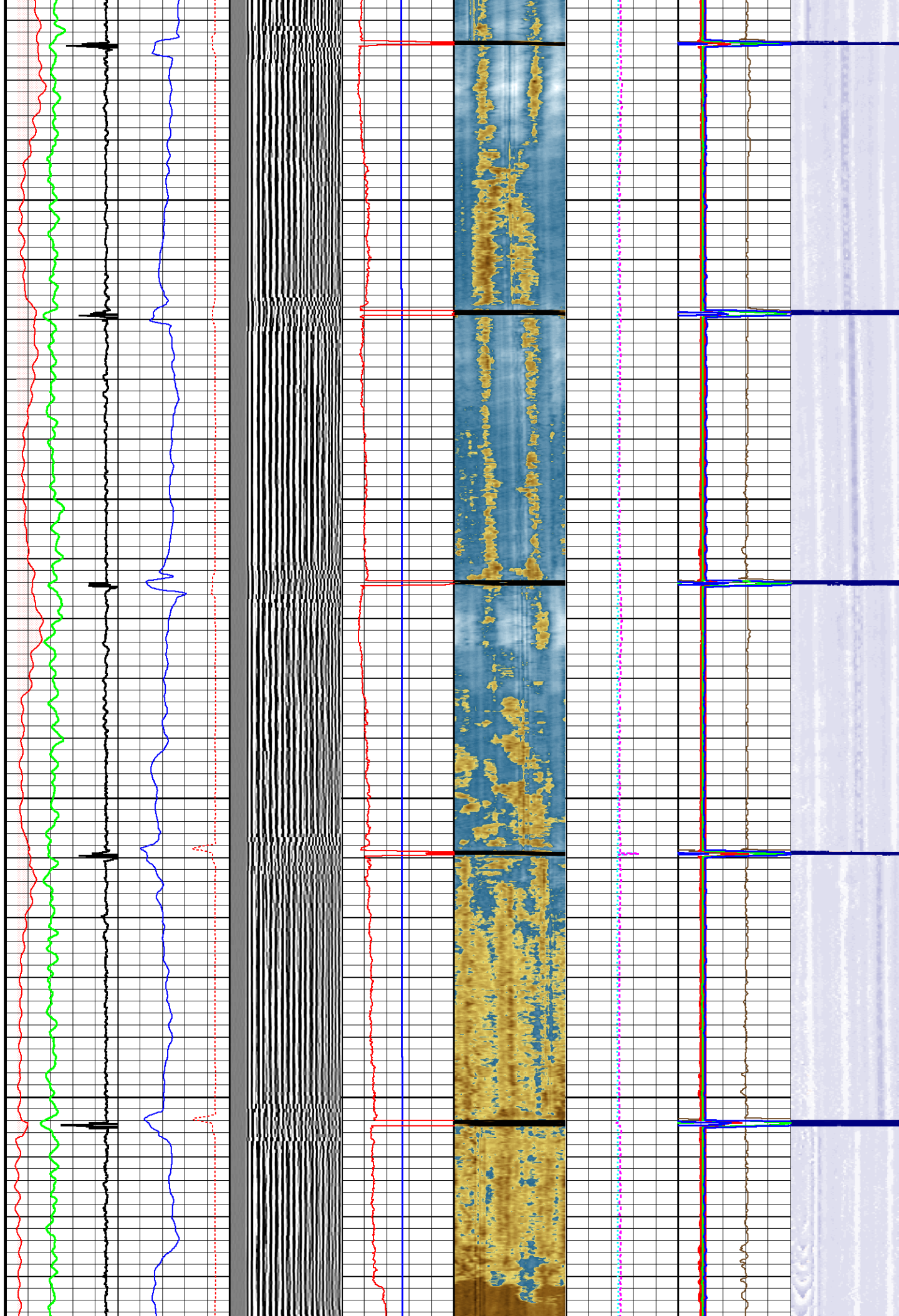


1400

1450

1500

1550



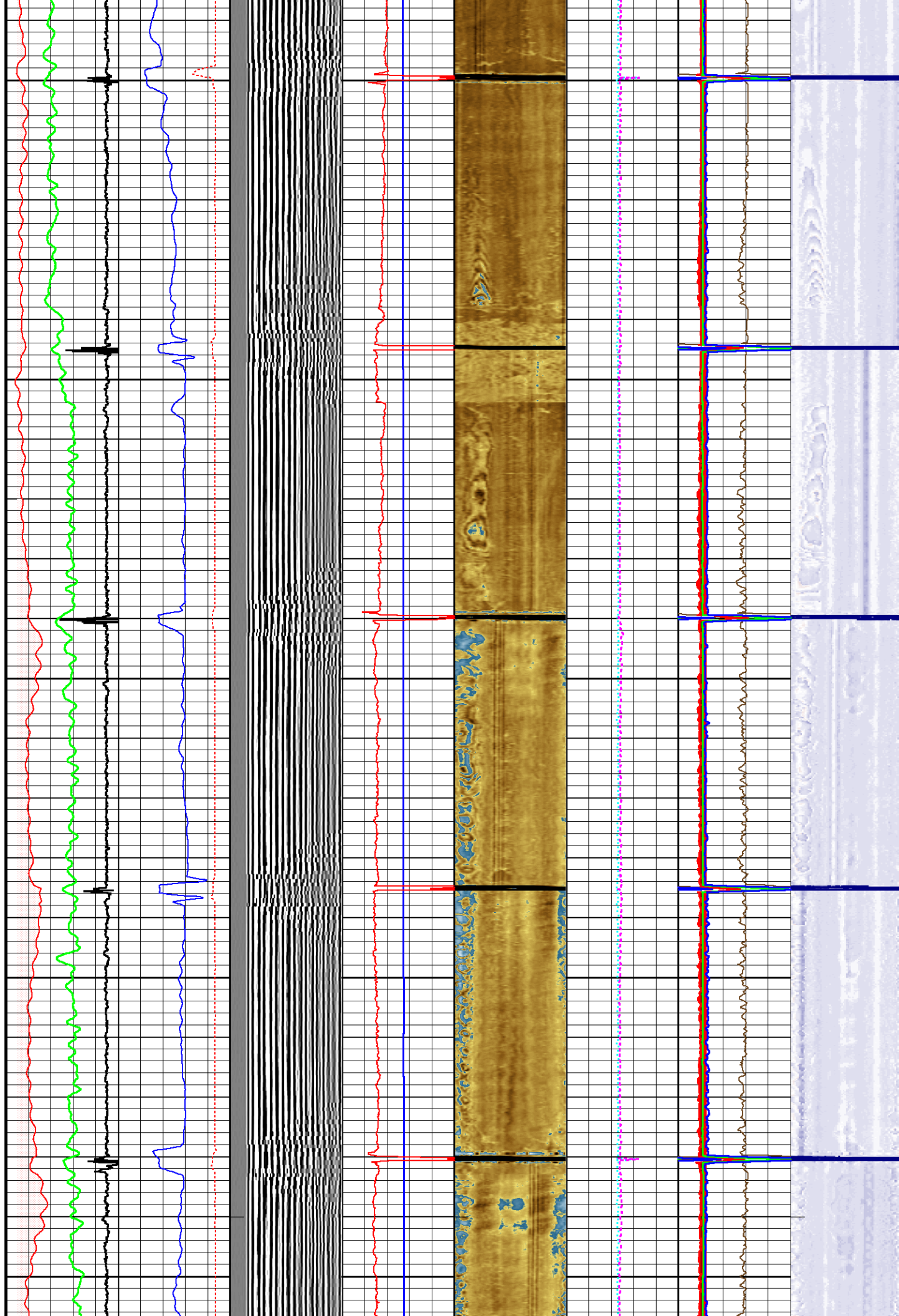
1600

1650

1700

1750

1800

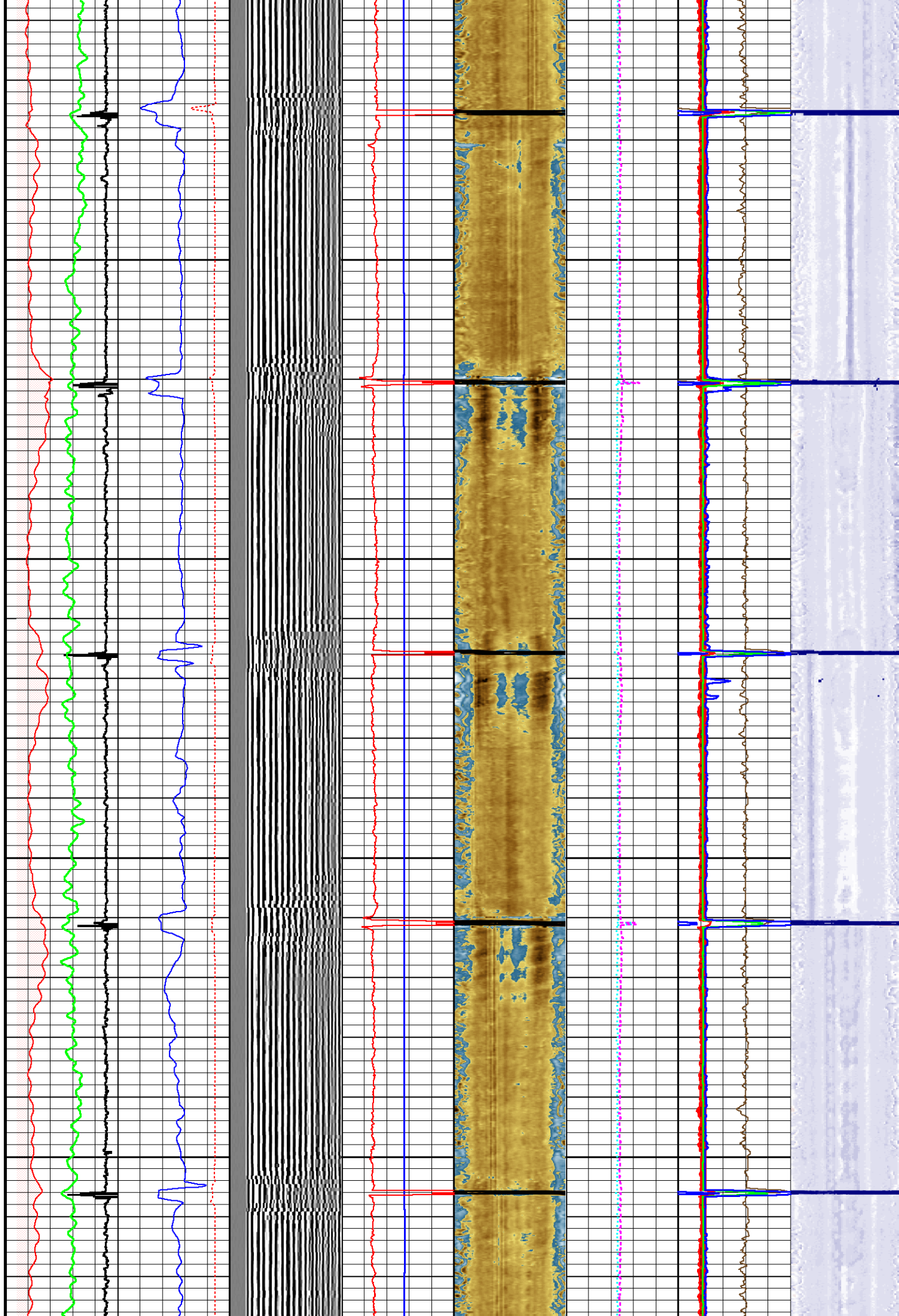


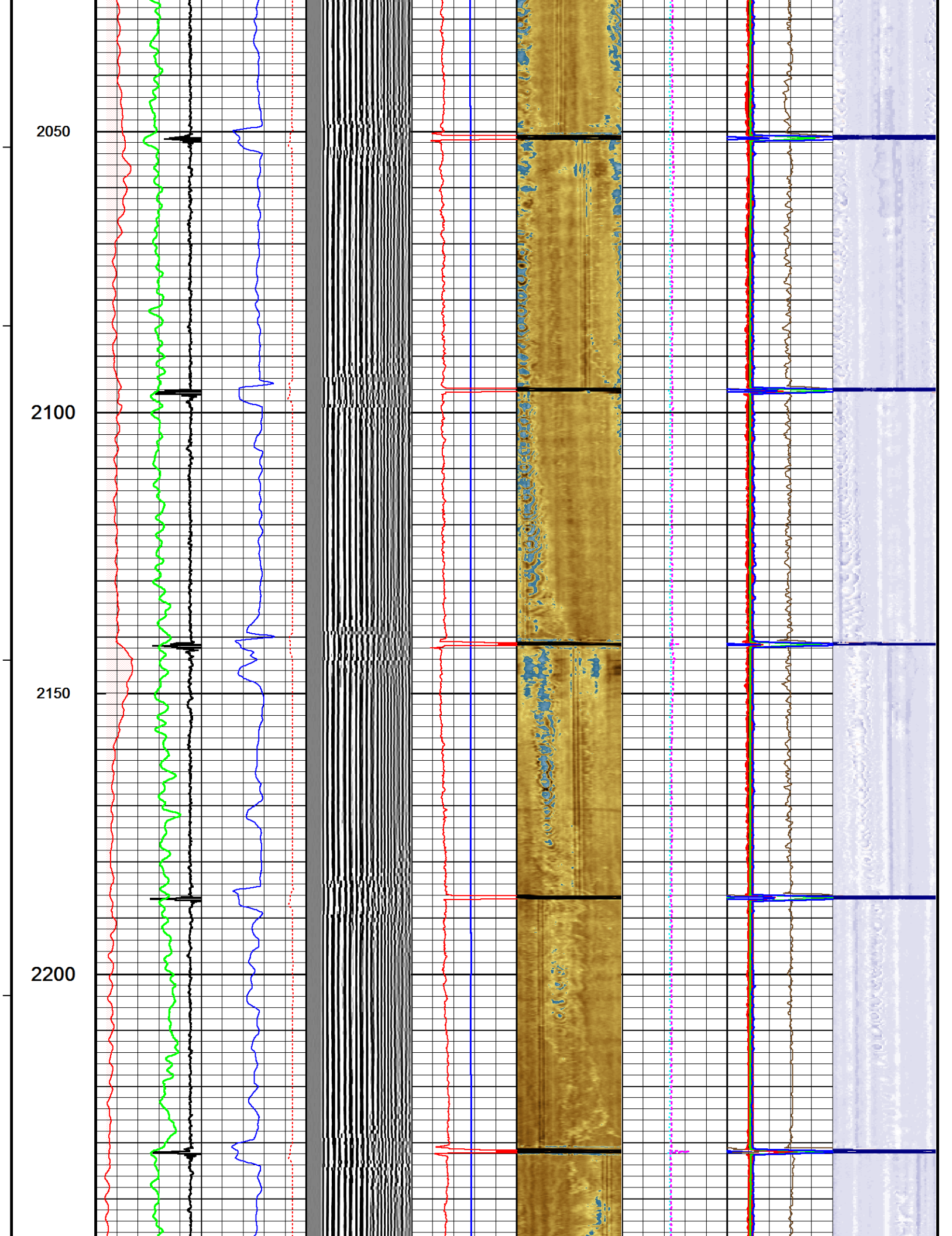
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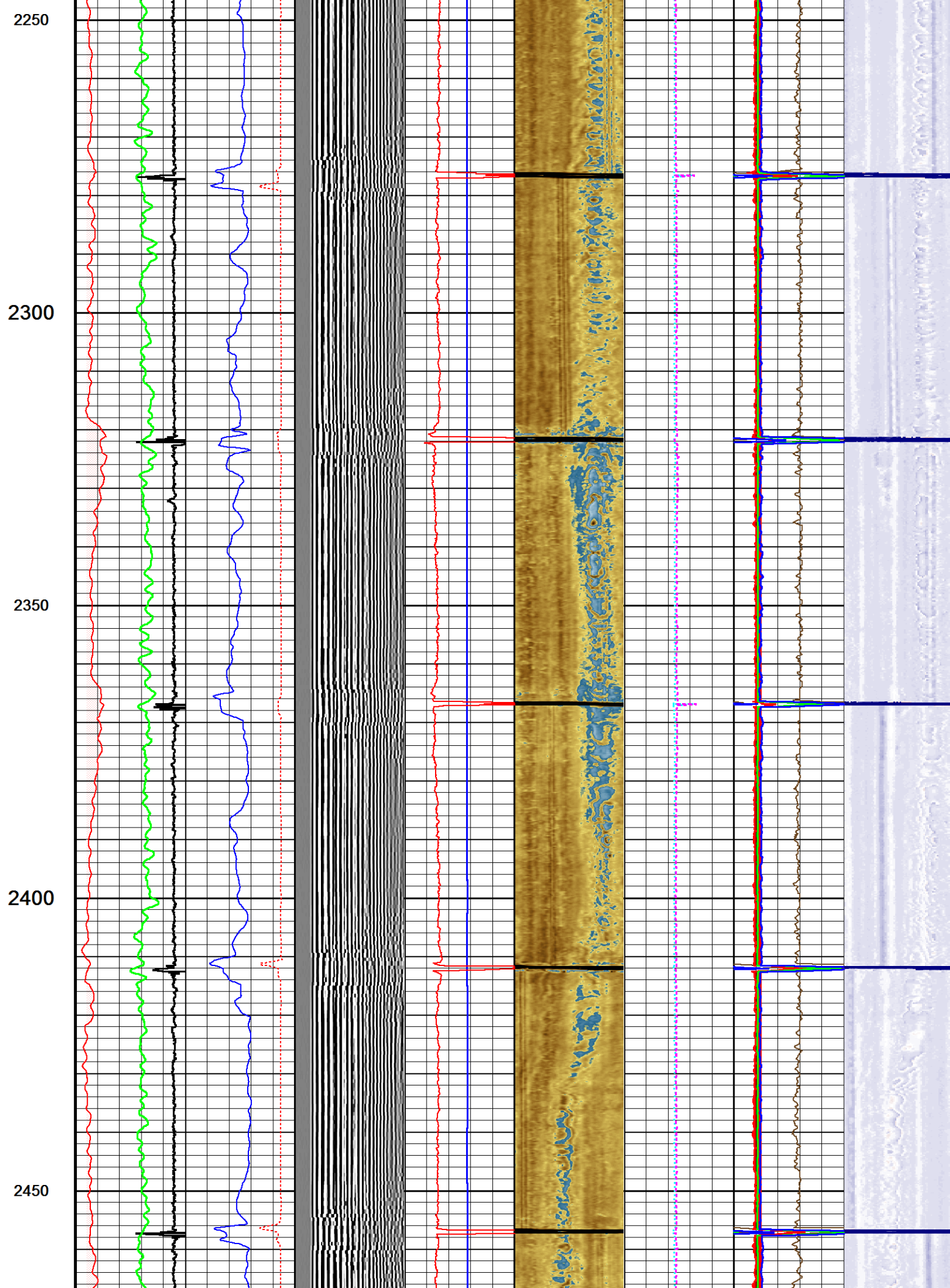
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1950

2000





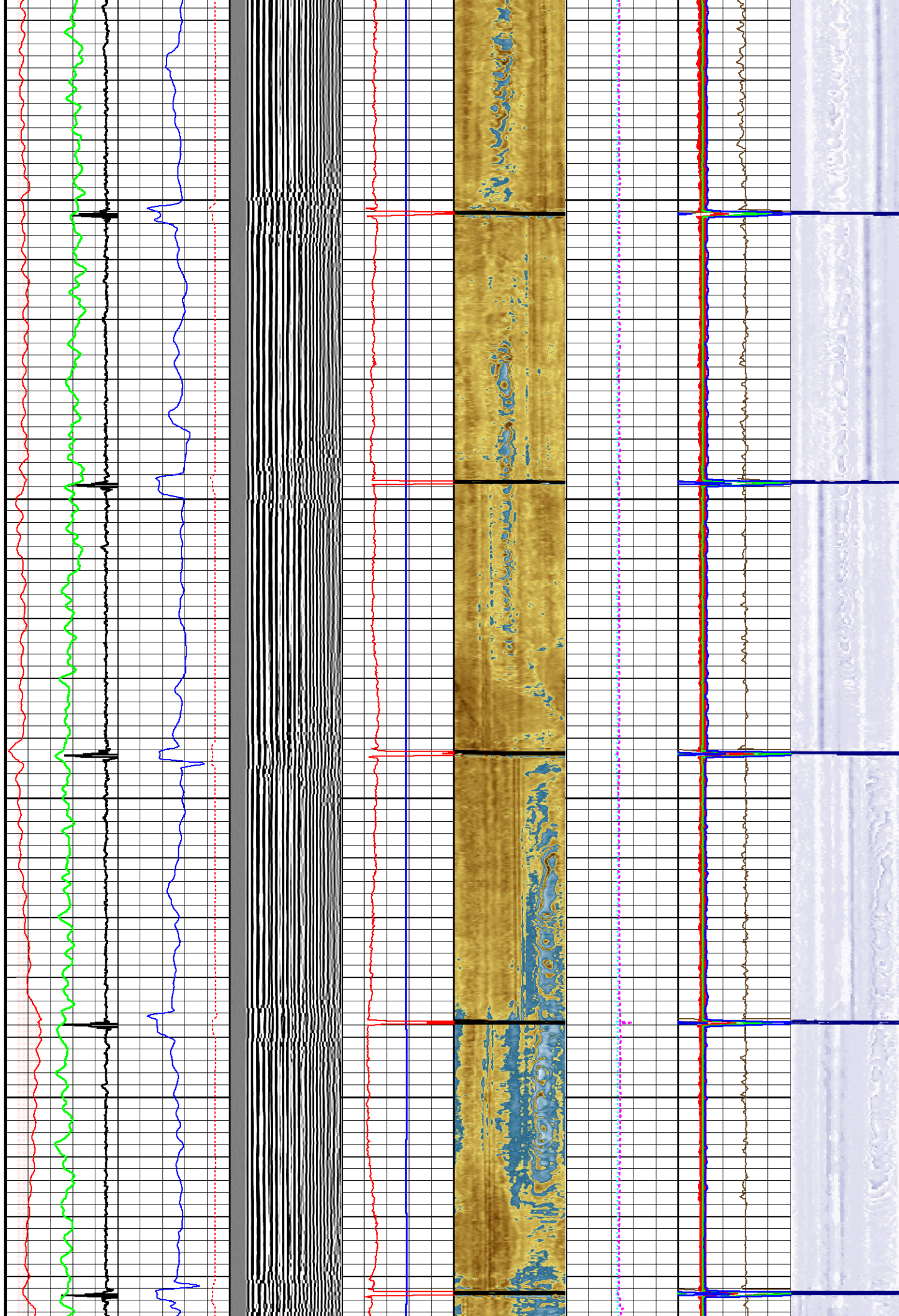


2500

2550

2600

2650



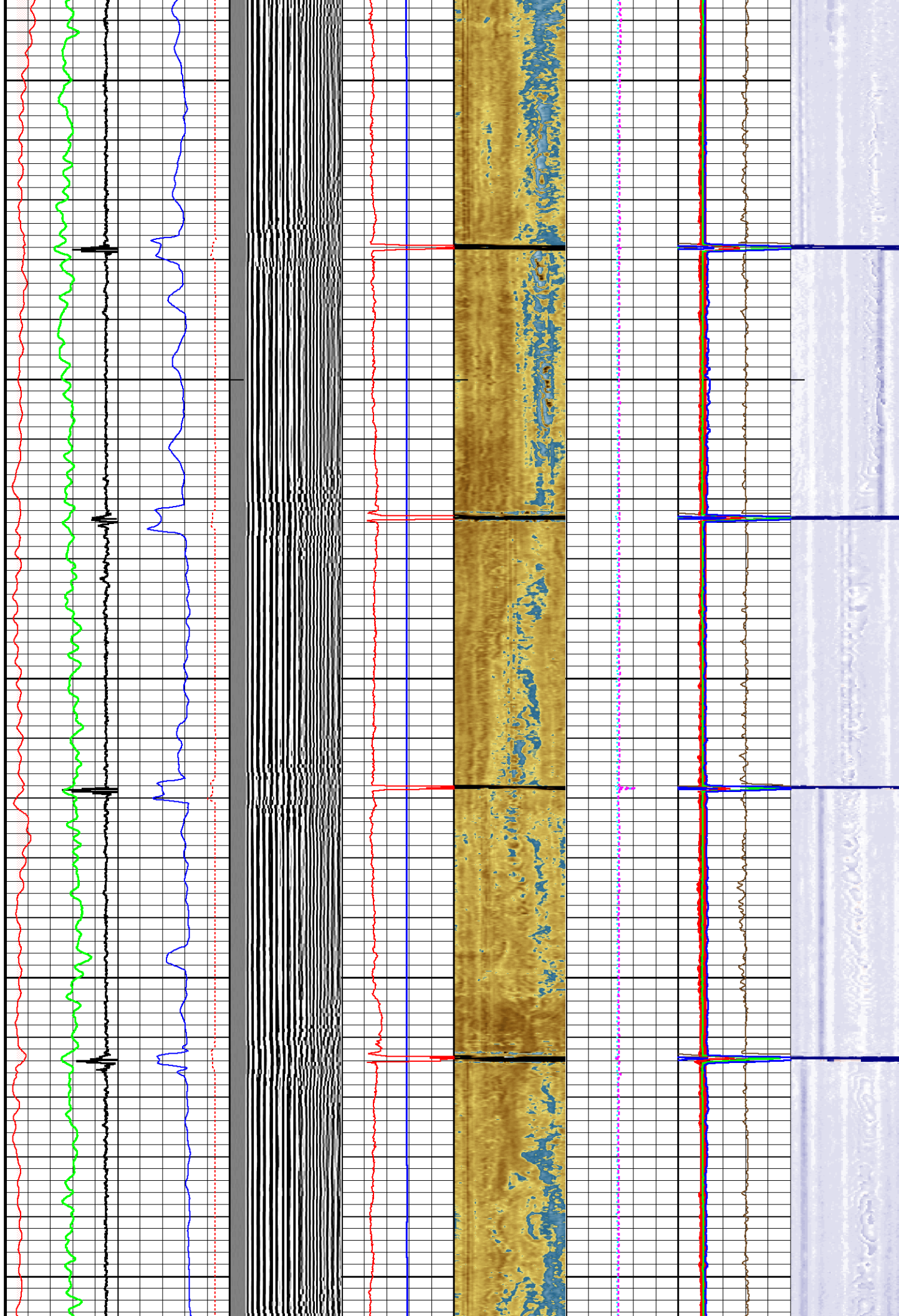
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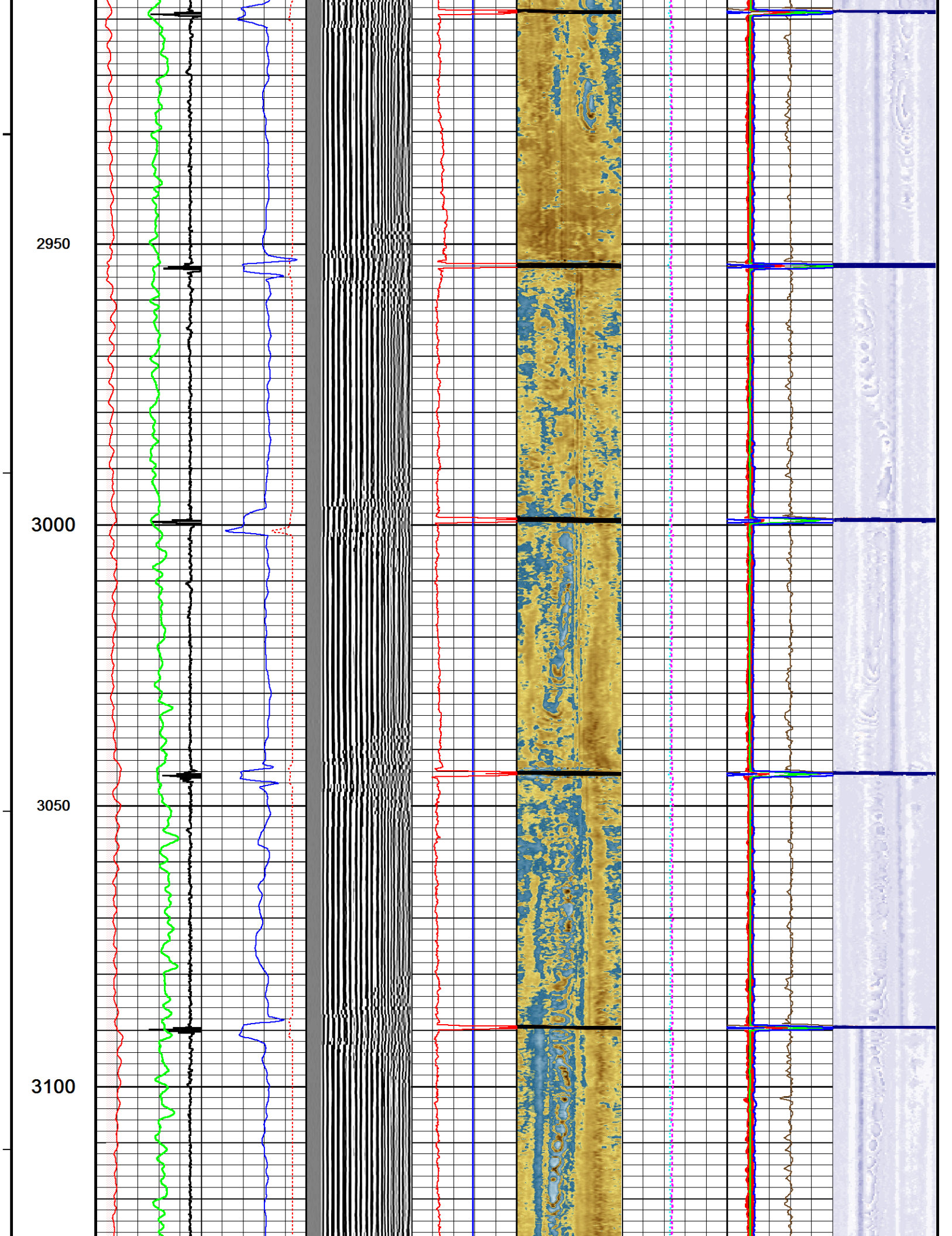
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2800

2850

2900



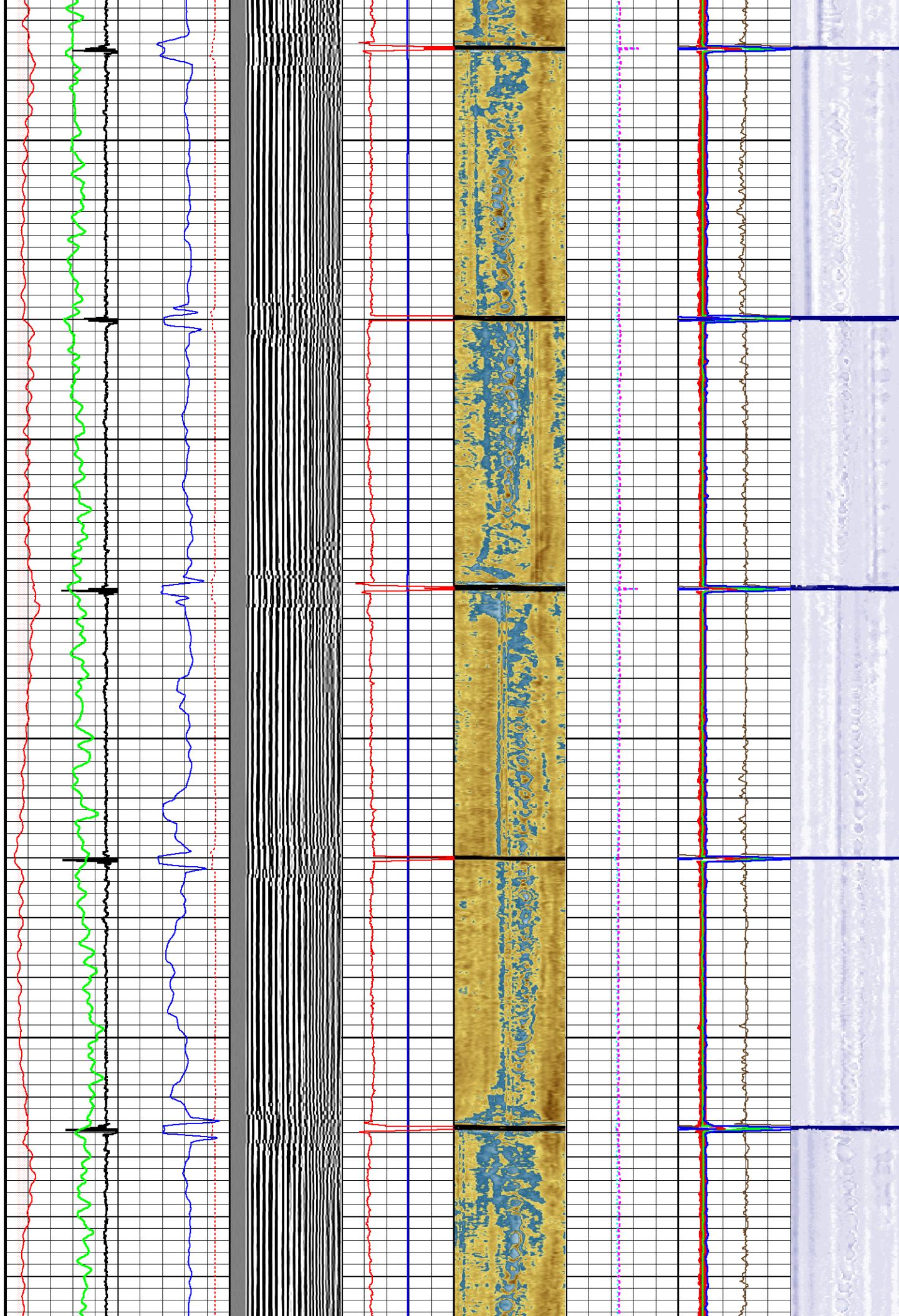


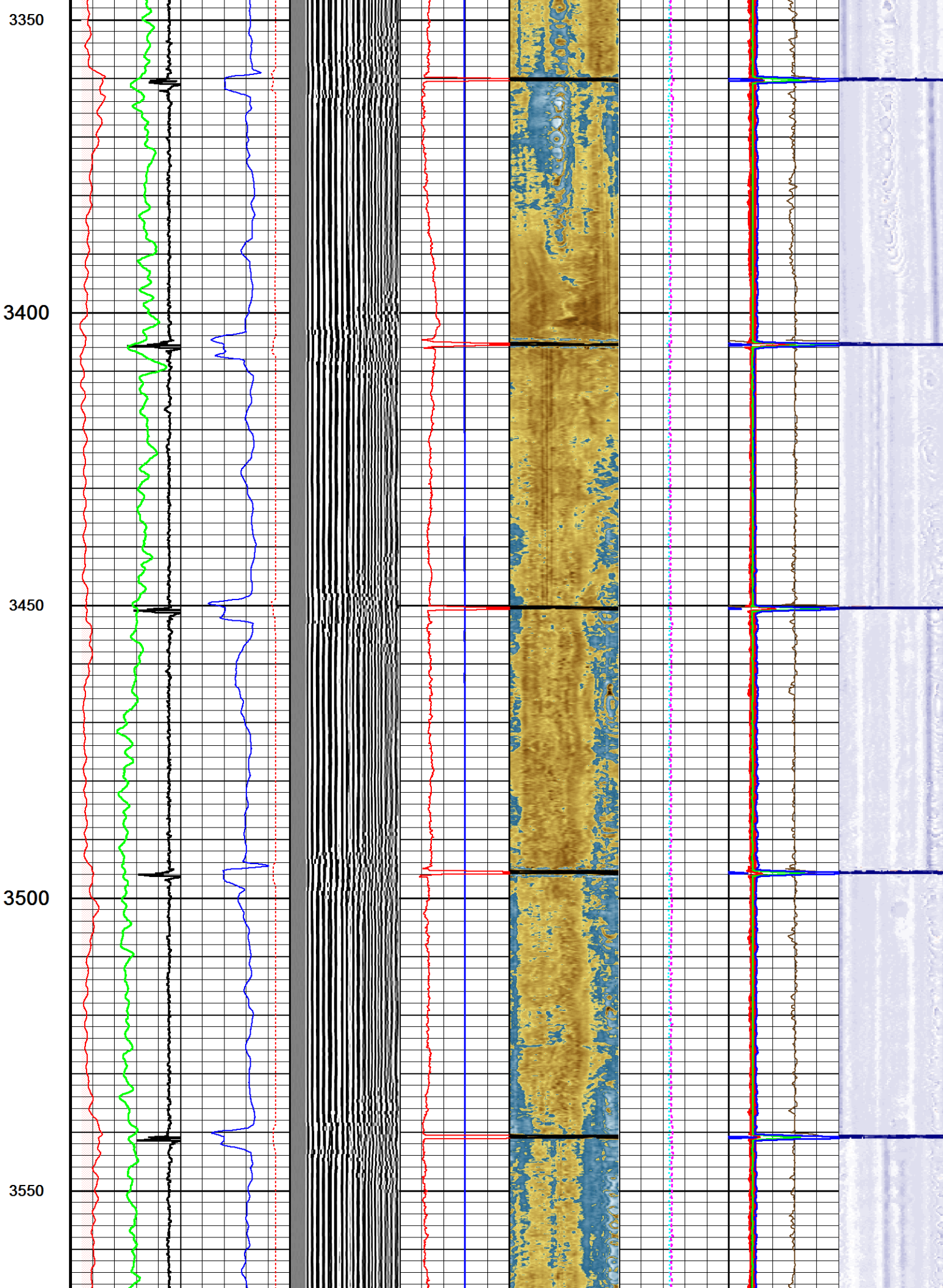
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3200

3250

3300



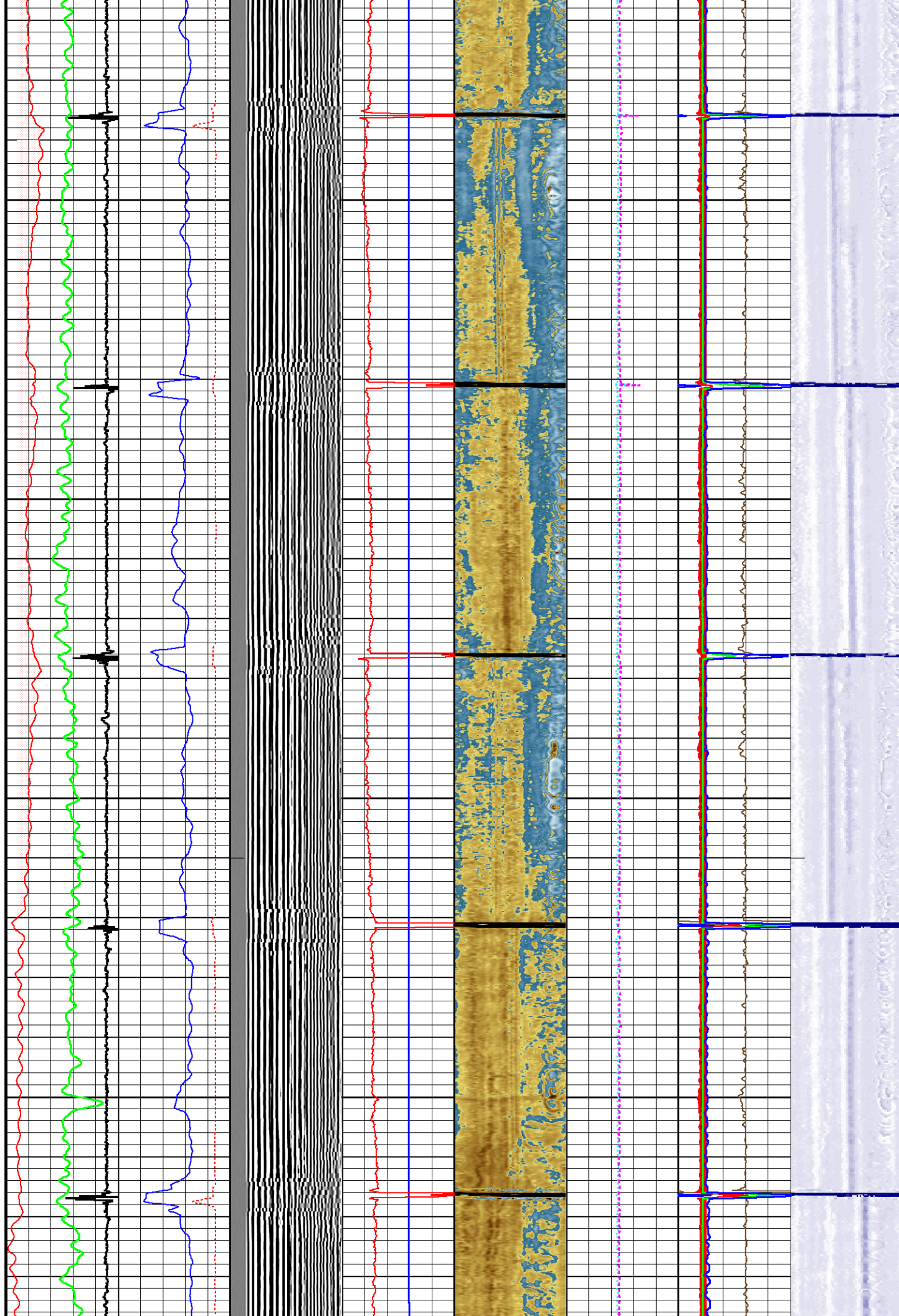


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3650

3700

3750



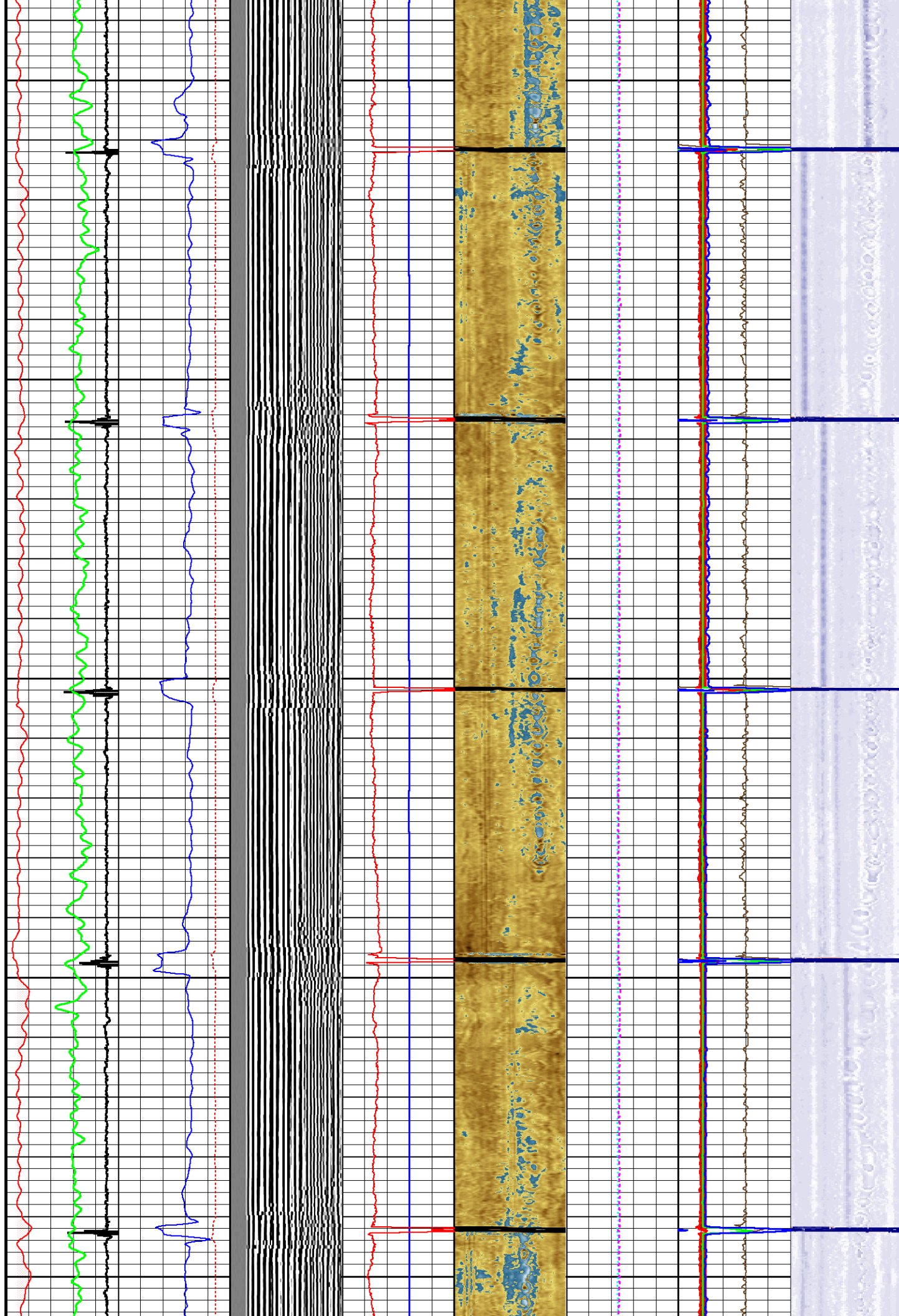
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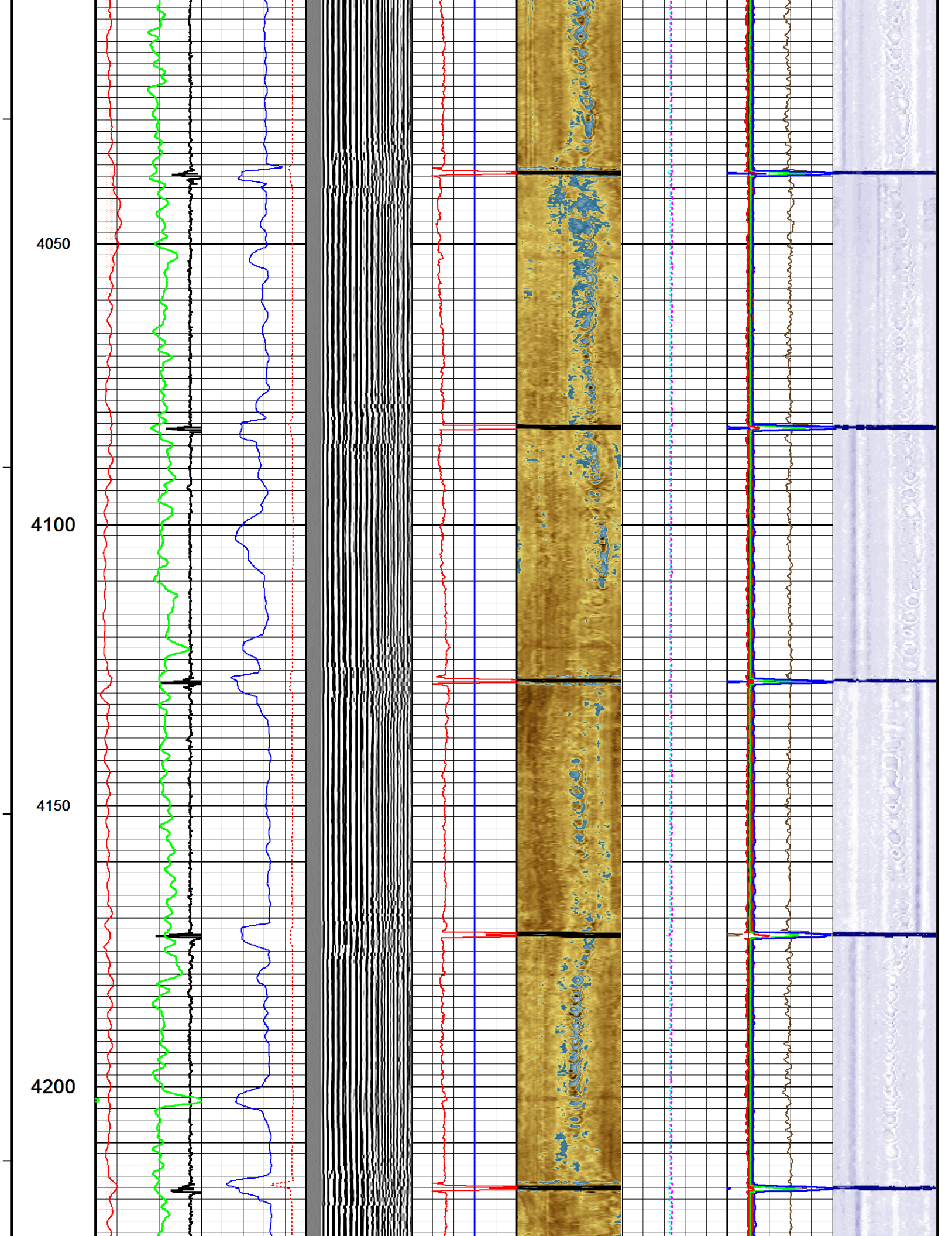
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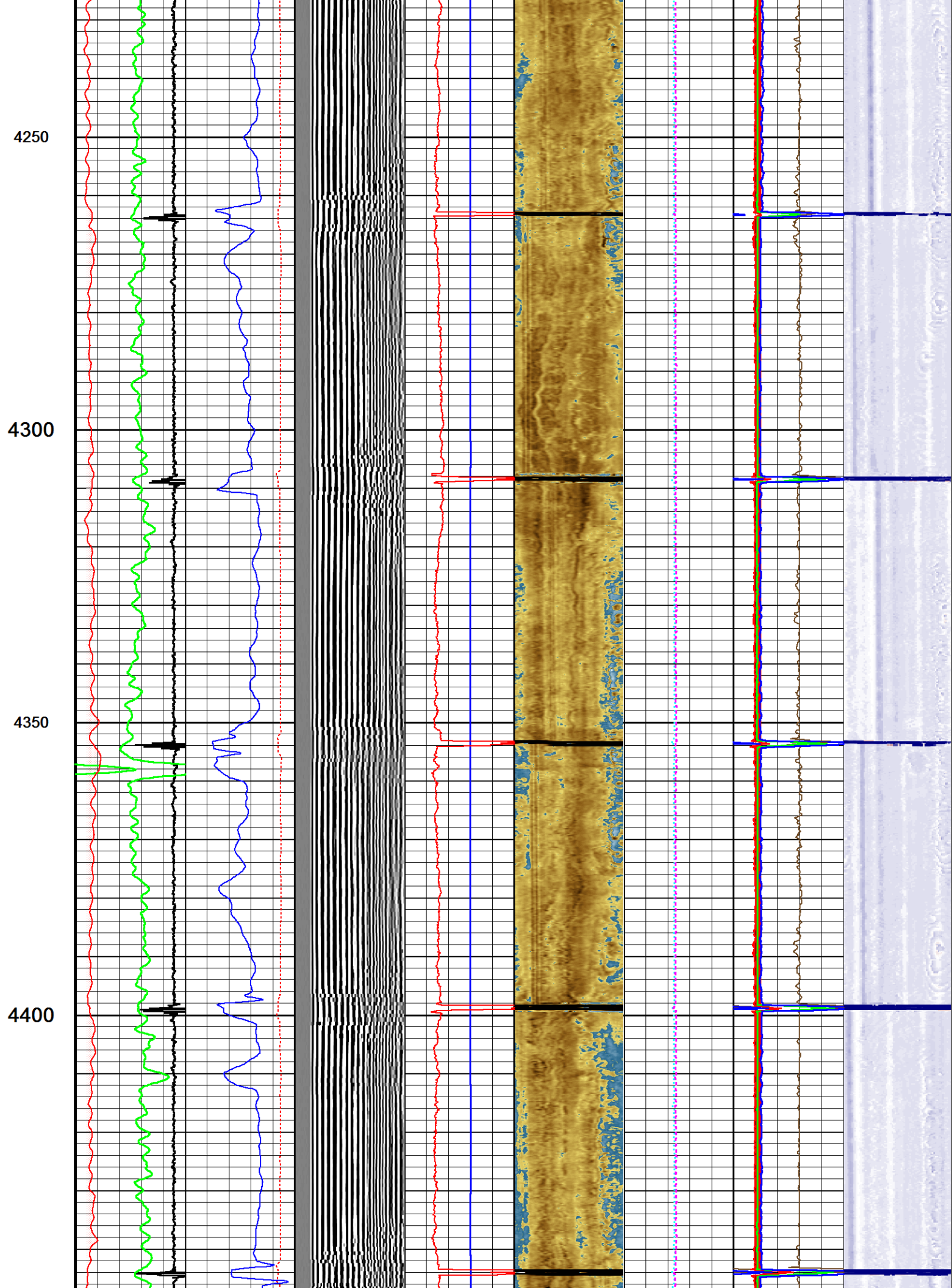
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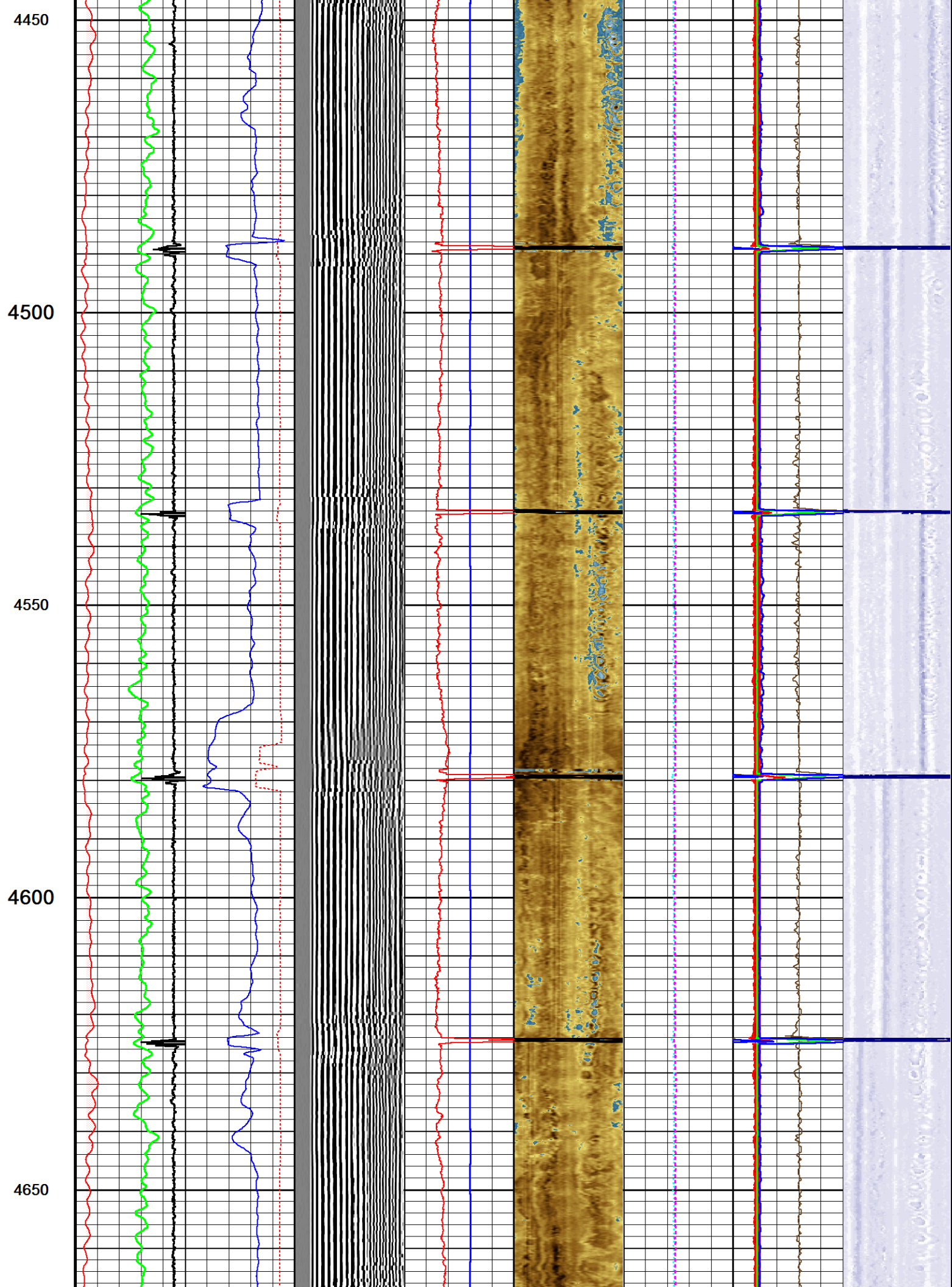
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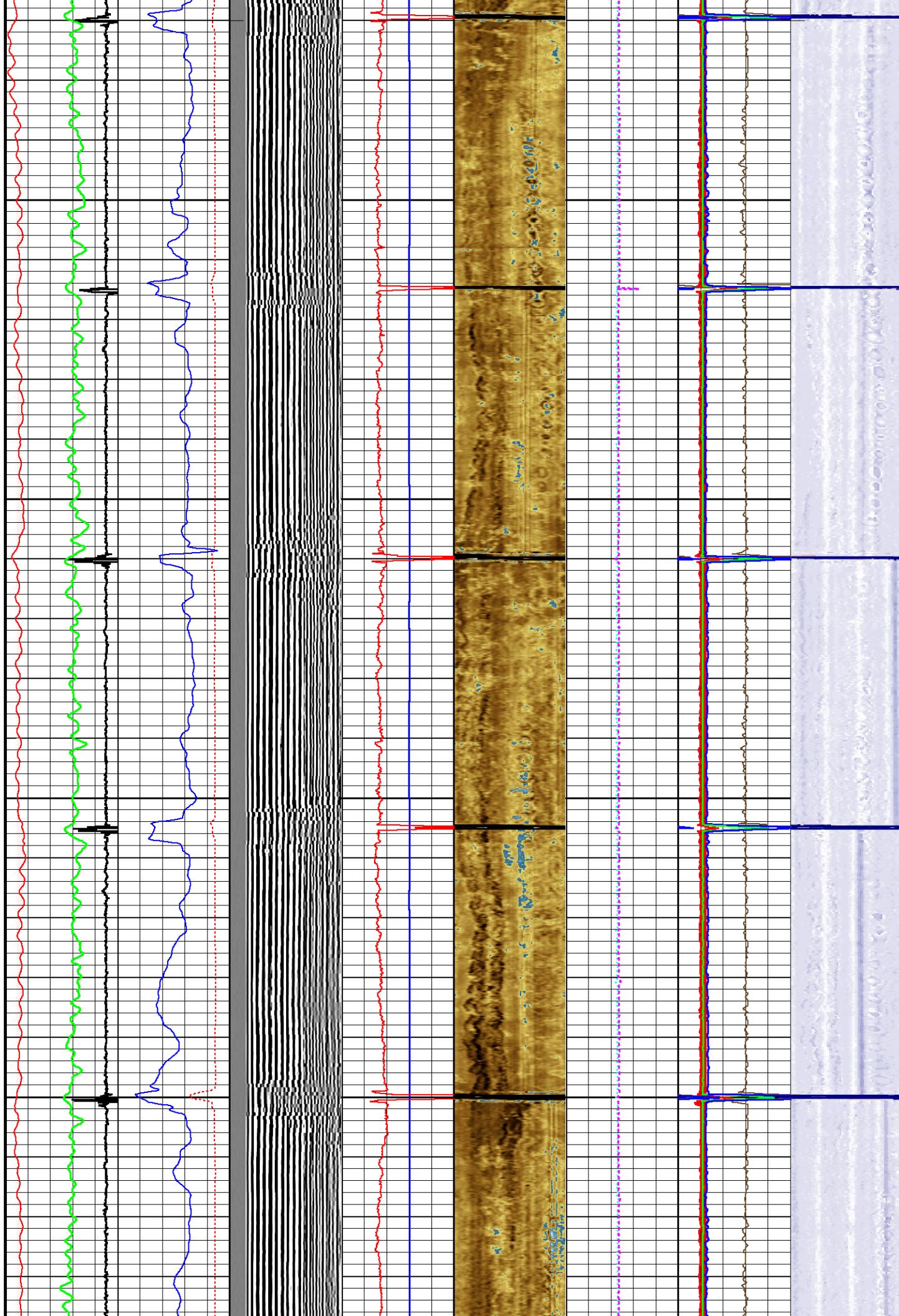


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4750

4800

4850



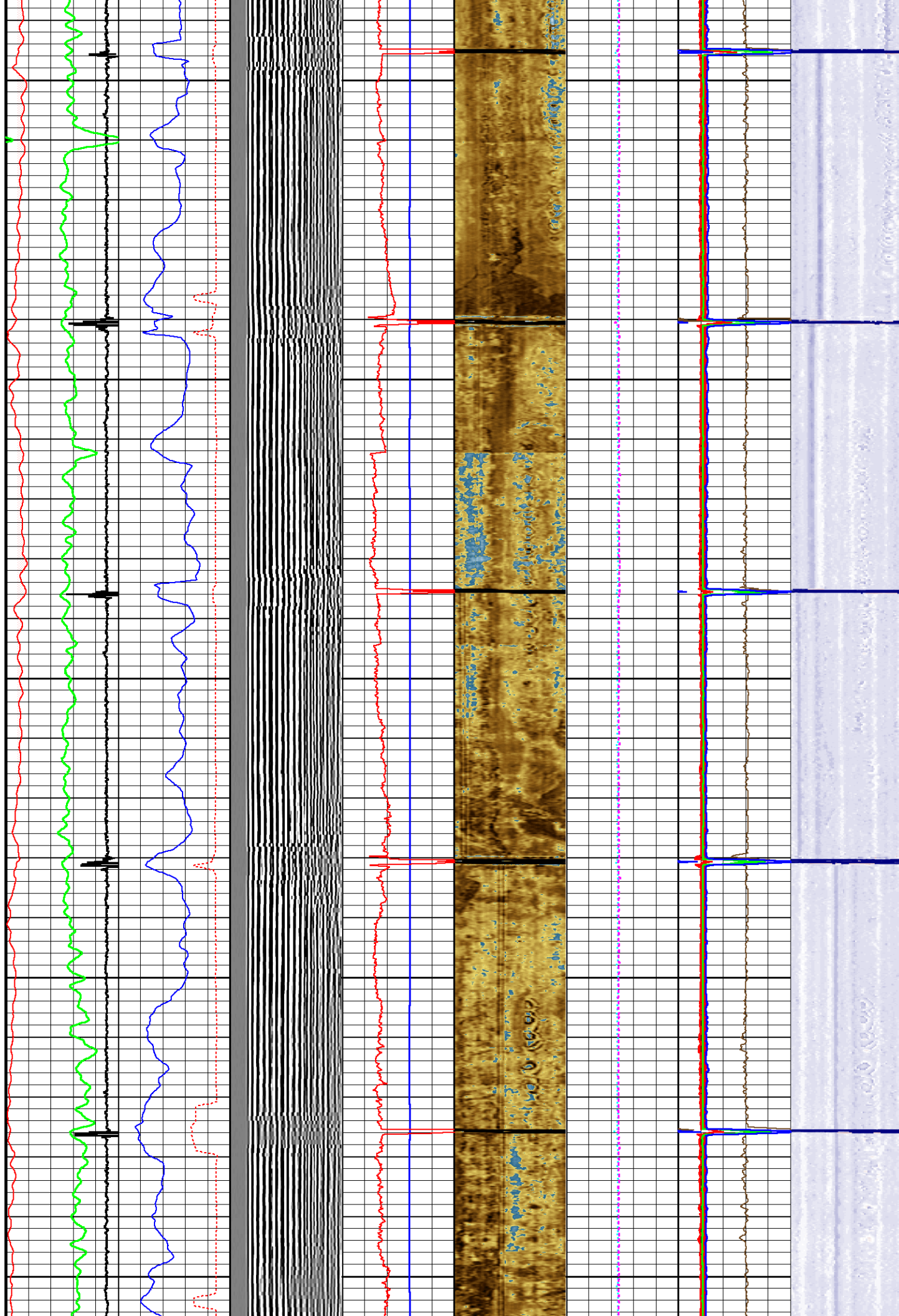
4900

4950

5000

5050

5100

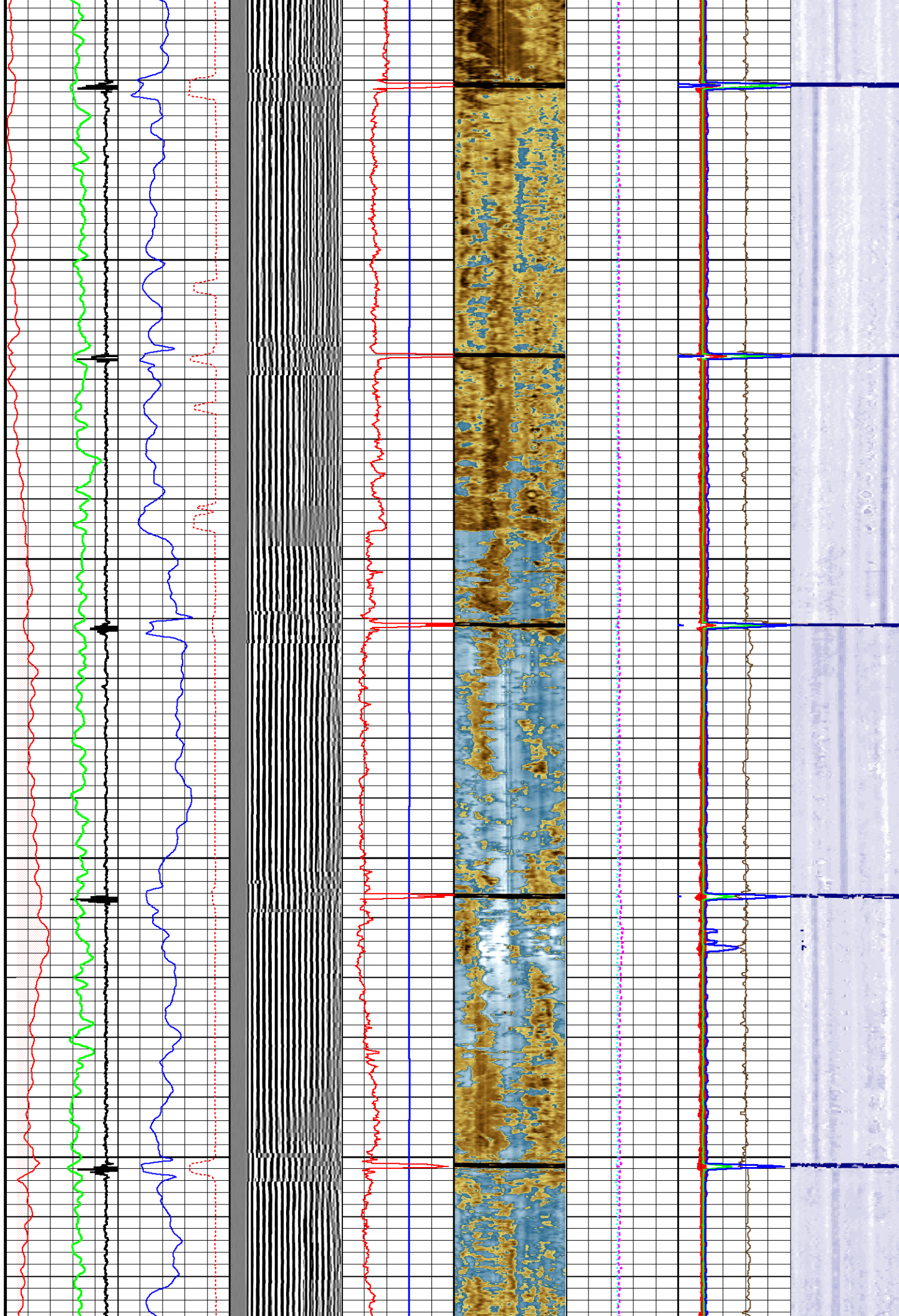


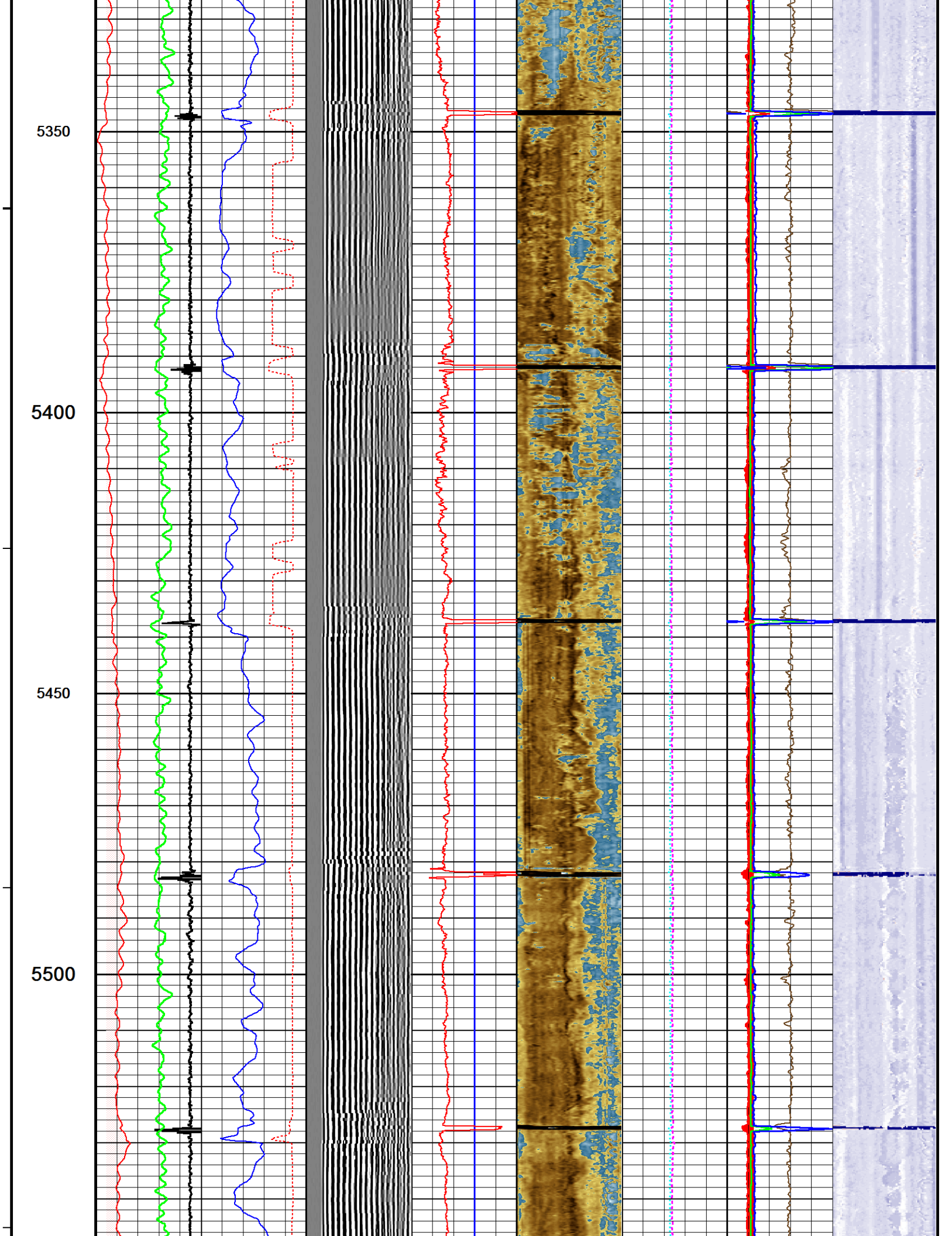
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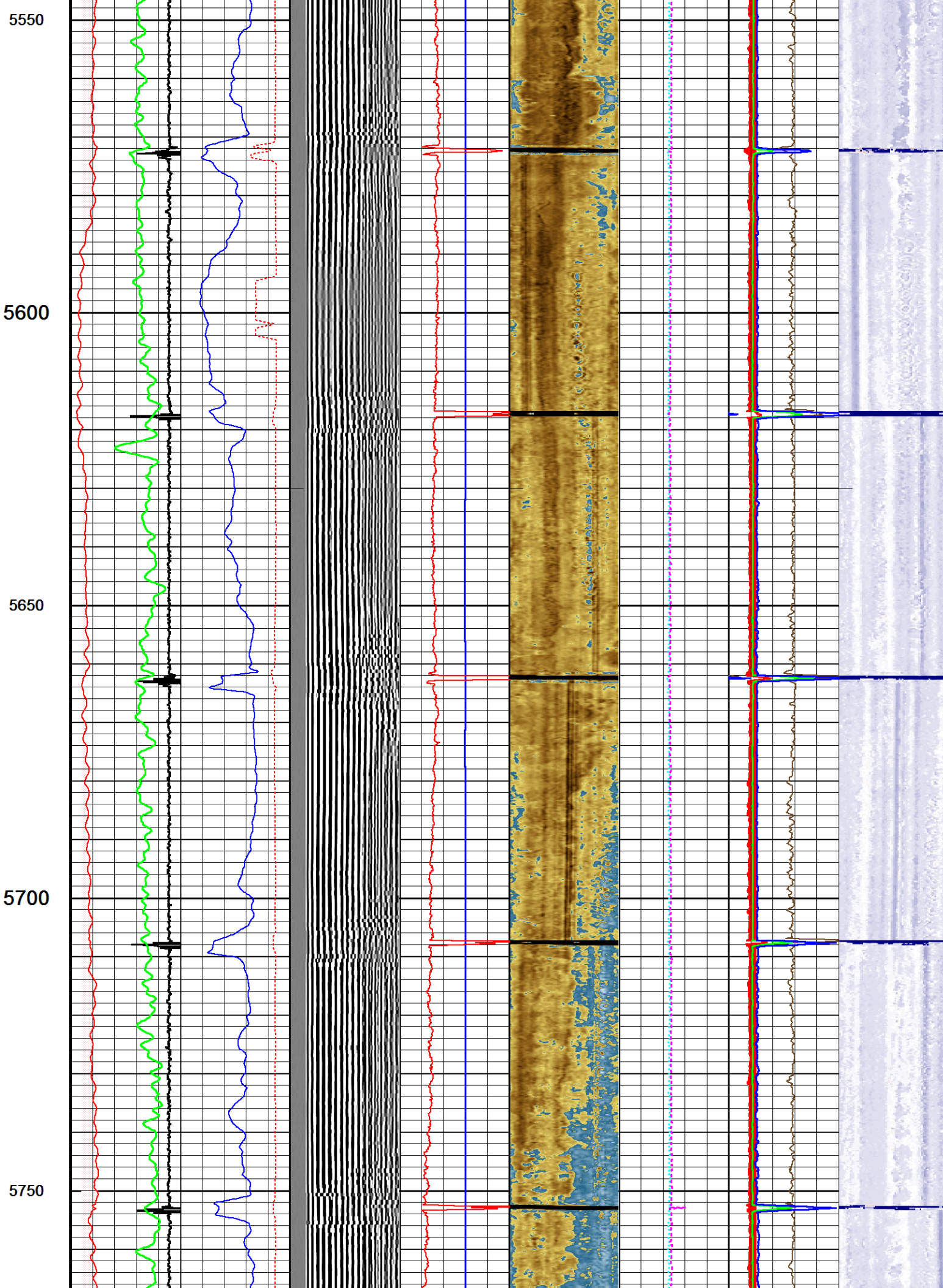
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5250

5300





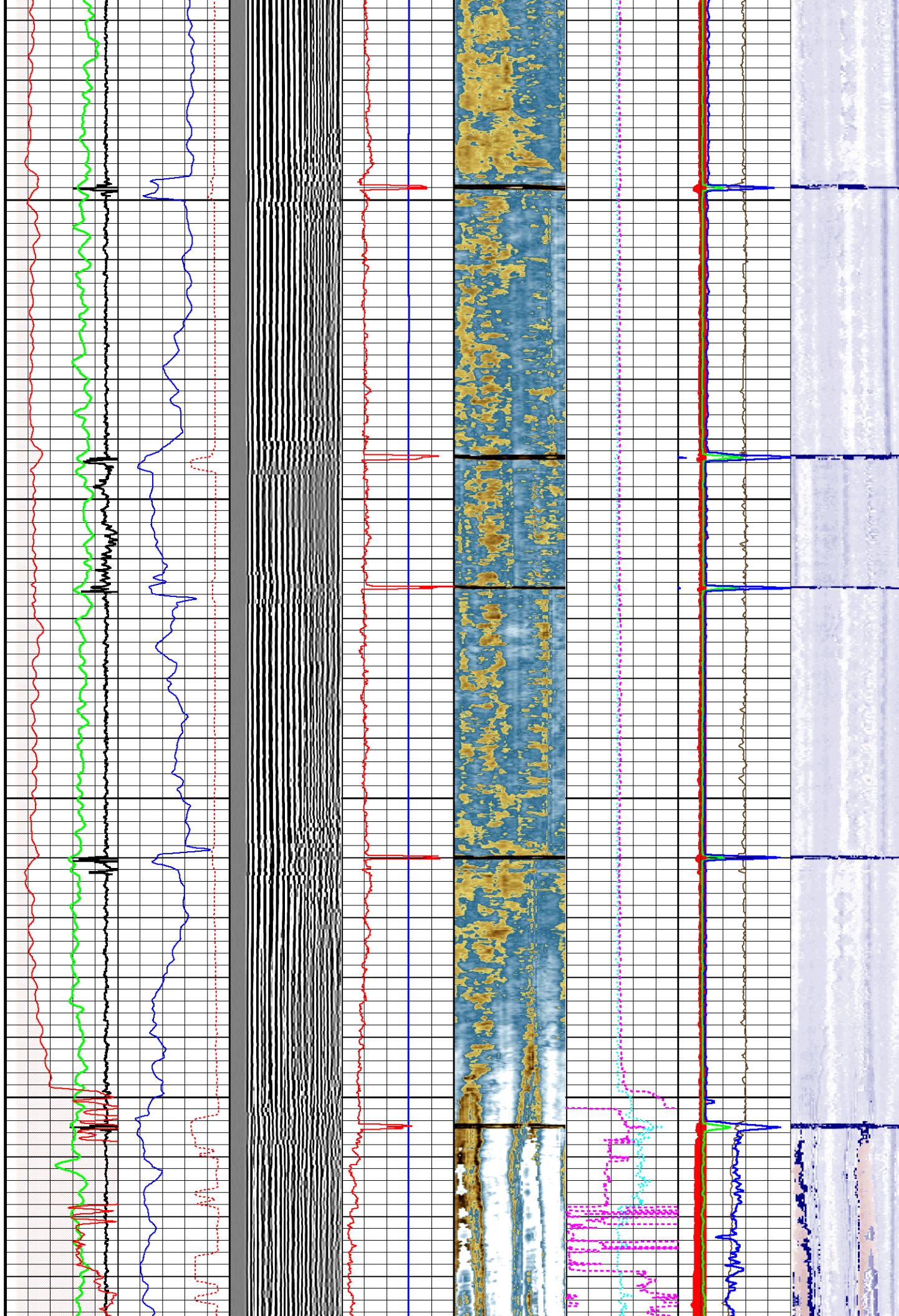


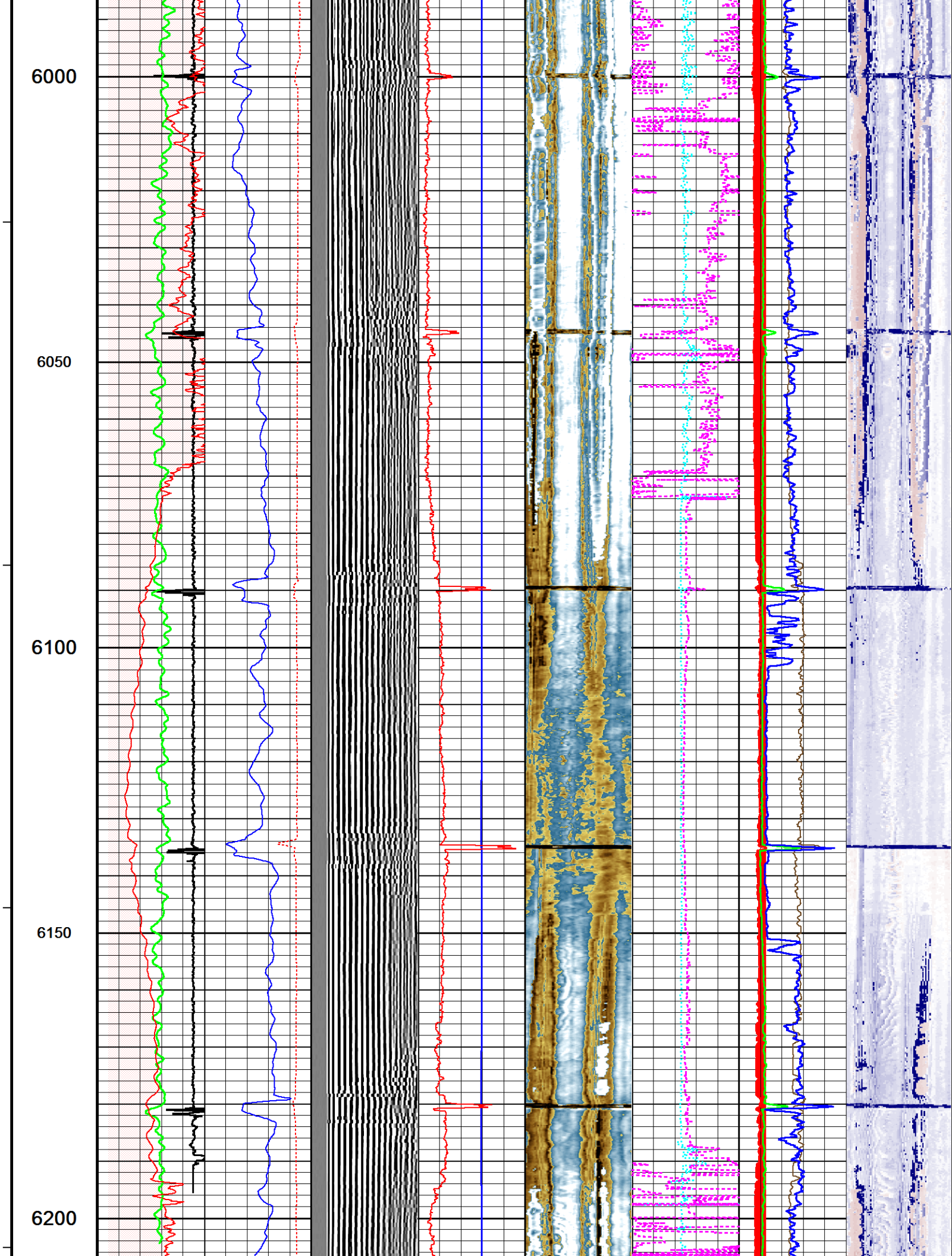
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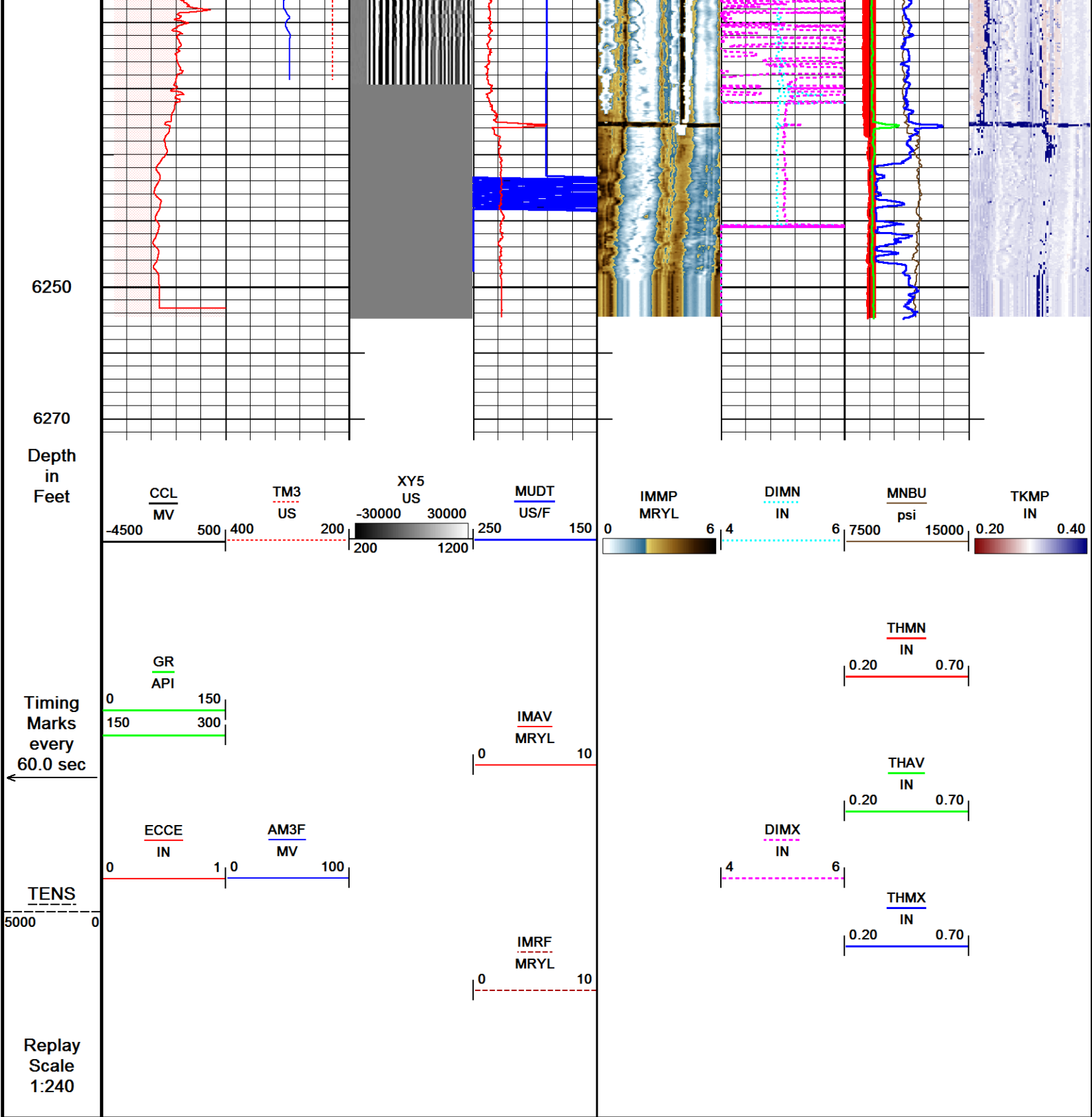
5850

5900

5950







Depth Based Data - Maximum Sampling Increment 2.5cm

Plotted on 03-NOV-2018 11:02

Filename: C:\LOGS\BONANZA CREEK\9 WELL PAD\11-3-2018\NORTH PLAT...\MAIN PASS_001.dta

Recorded on 03-NOV-2018 10:13

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

MAIN PASS

REPEAT PASS

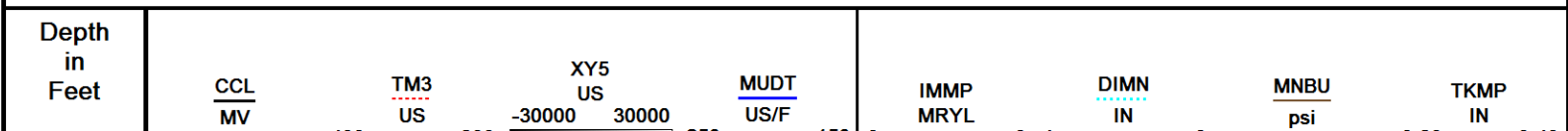
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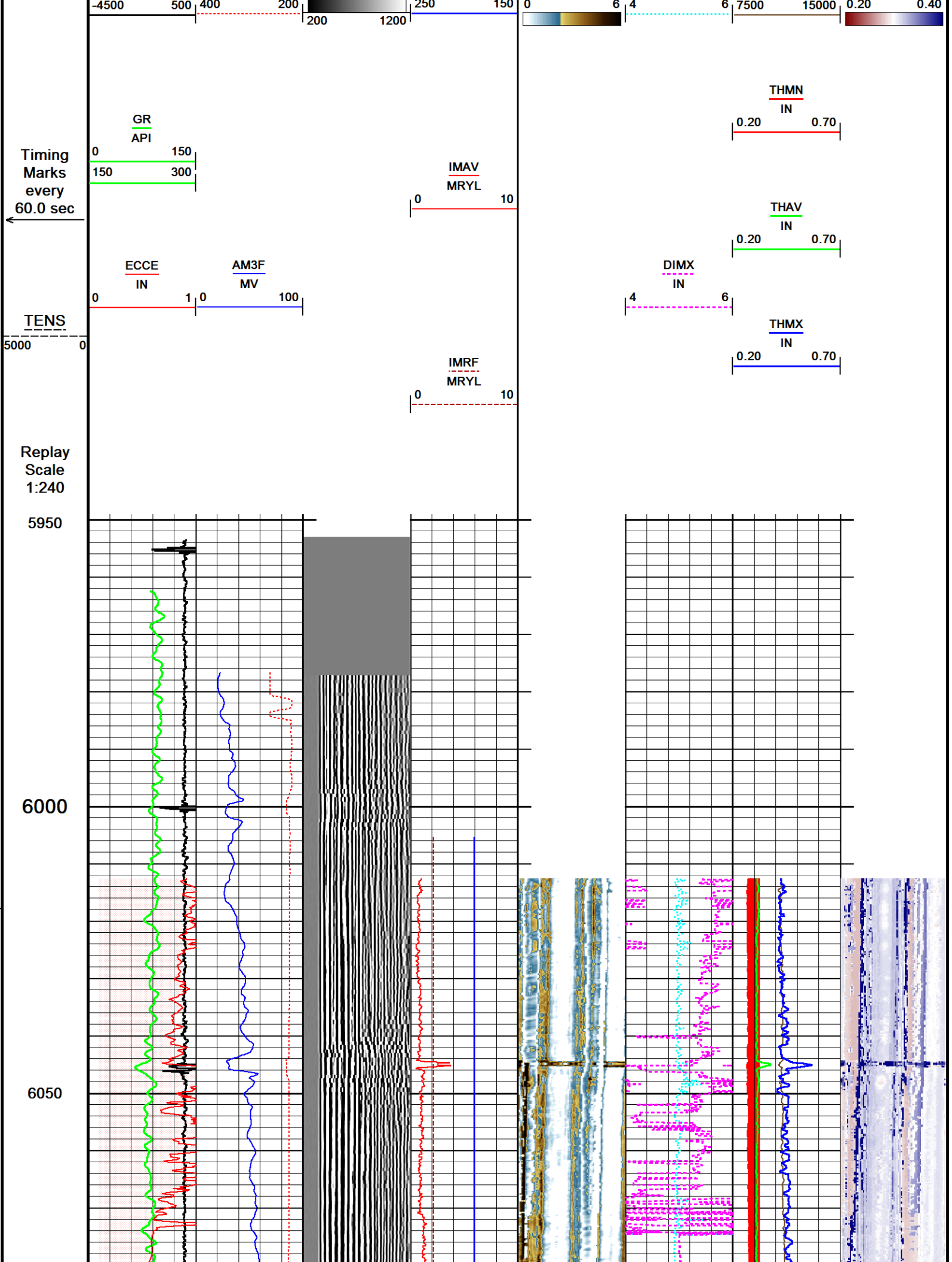
Plotted on 03-NOV-2018 11:02

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Recorded on 03-NOV-2018 10:52

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





6100

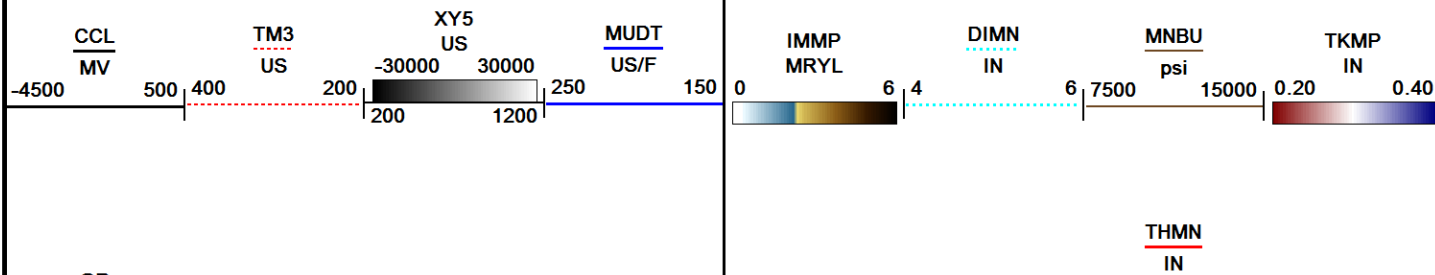
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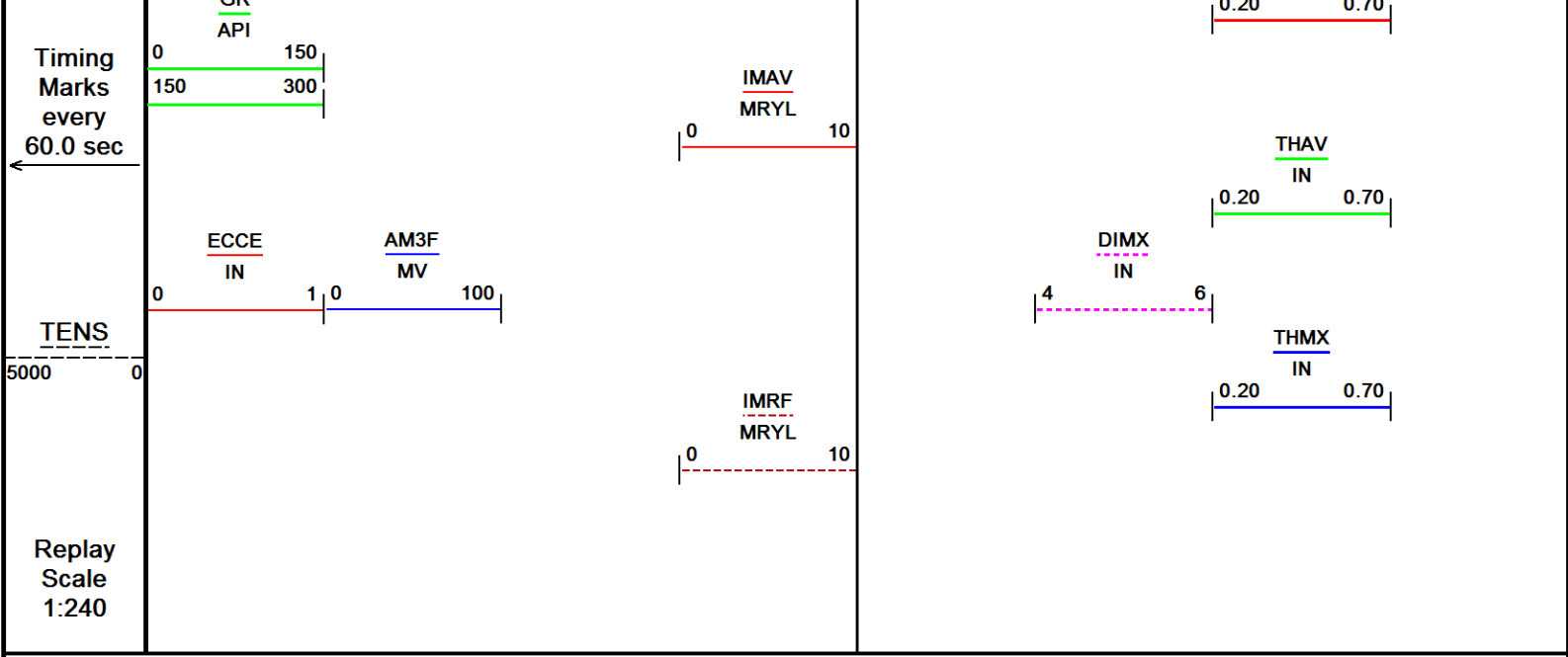
6200

6250

6264

Depth
in
Feet





Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\LOGS\BONANZA CREEK\9 WELL PAD\11-3-2018\NORTH PLATTE\REPEAT PASS_001.dta
System Versions: Logged with 18.03.8633 Processed with 18.03.8633 Plotted with 18.03.8633

↑ REPEAT PASS ↑

SHOP AND FIELD CALIBRATIONS
C:\LOGS\BONANZA CREEK\9 WELL PAD\11-3-2018\NORTH PLATTE P31-T34-28 HNB\URS\MAIN PASS_001.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 03-NOV-2018 07:48

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	0.85
	Free Pipe	72.00	520.35
AMP 5 FT	100 % Bond	0.90	2.44
	Free Pipe	48.00	491.21

CBT Constants CBT-AA 115

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 03-NOV-2018 07:49

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	4.360	0.000	0.000	MRYL

URS Constants USH-AB 136

Last Edited on 03-NOV-2018 08:06

*** 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	2.98
ZMud Cal Area Ratio	5.20

** 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	1637.00	5.50	36.00	1.50	1.50	0.30	1.00
0.00	11682.00	5.50	17.00	2.98	4.36	0.30	1.00

** Constants **

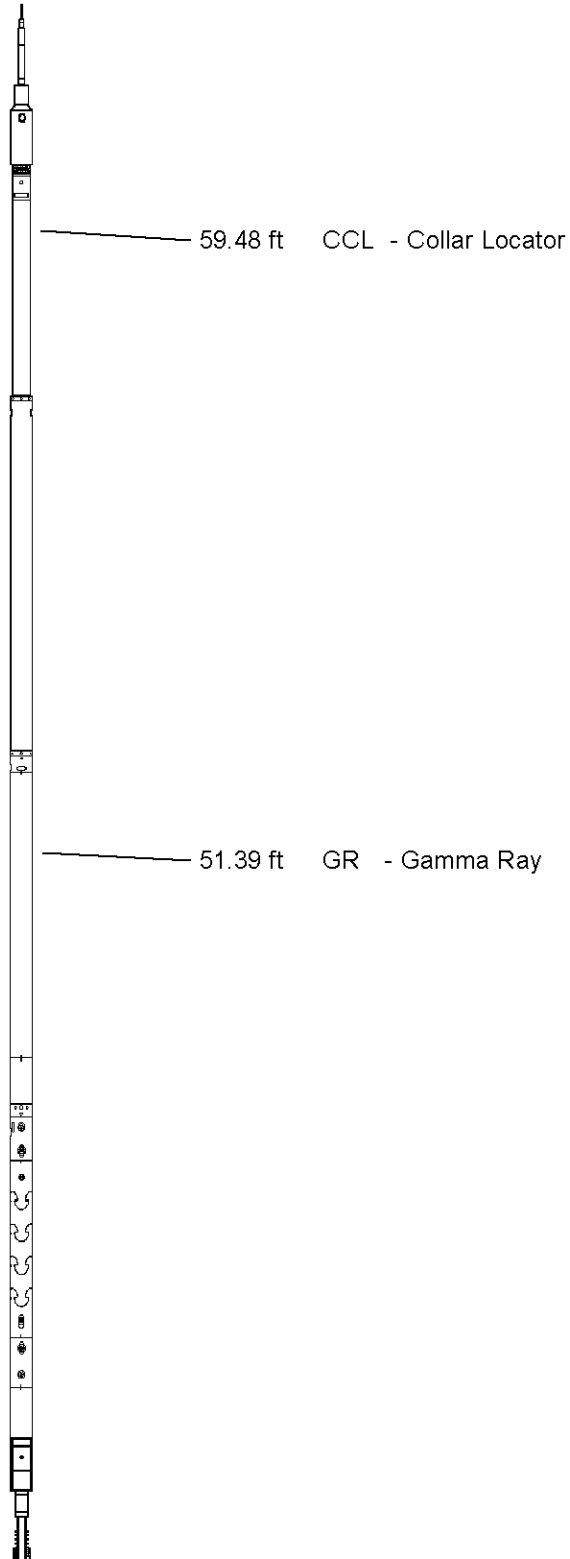
Thickness Calculated from	Tool
Radius Offset	-0.51
Mud slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.60 MRYL
Z_mud Outside	1.70 MRYL
Gas Impedance Cutoff	0.38 MRYL

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\11-3-2018\NORTH PLATTE P31-T34-28 HNB\URS\MAIN PASS.dta

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



- 35.70 ft XY5 - XY Signature 5FT

UCC-AA 132 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

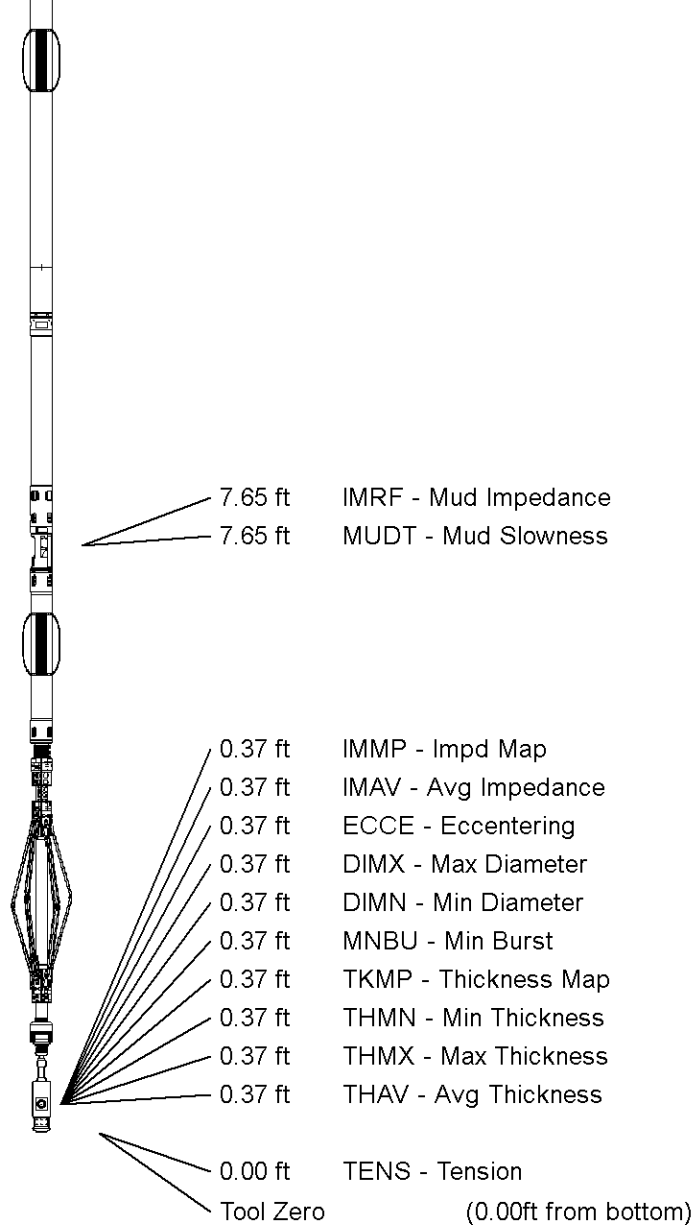
URS Sonde Section

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: 62.40 ft Weight: 1045.0 lb



All measurements relative to tool zero.

COMPANY	BONANZA CREEK ENERGY
WELL	NORTH PLATTE P31-T34-28 HNB
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	4565	feet	Bottom Log Interval	6255.00	feet
Elevation Drill Floor	4565	feet	Depth Driller	11692.00	feet
Elevation Ground Level	4548	feet	Depth Logger	6255.00	feet



SECUREVIEW
ULTRAVIEW / BONDVIEW
LOG

Weatherford®

