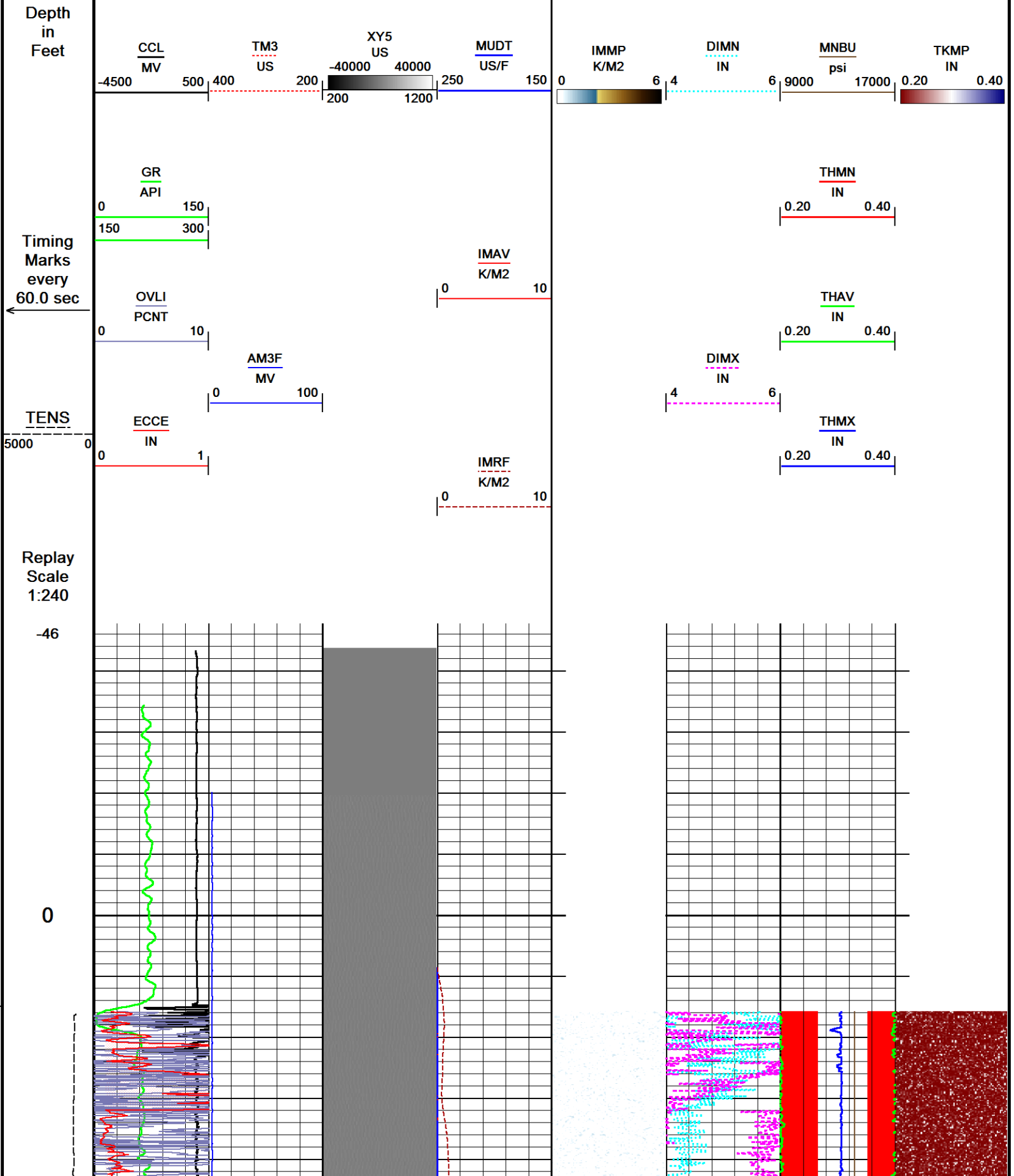
 Weatherford®				SECUREVIEW ULTRAVIEW / BONDVIEW LOG			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				BONANZA CREEK ENERGY STATE ANTELOPE T44-2-14 XRLNB WATTENBERG WELD USA / COLORADO 330° FNL 778° FEL			
SEC 11		TWP 5N	RGE 62W	Other Services ULTRAVIEW		BONDVIEW	
Latitude		Longitude		API Number		05-123-44483	
Permanent Datum GL, Elevation 4636 feet				Elevations: KB 4653.00 DF 4653.00 GL 4636.00			
Log Measured From KB, 17.00 feet above Permanent Datum							
Drilling Measured From KB							
Date		10-SEP-2018		PERFORATION RECORD			
Run Number		ONE		Shot	Number	Depth From	Depth To
Service Order		18200-223797534		Density	of Shots	feet	feet
Type Log		MSC					
Depth Driller		16868.00					
Depth Logger		6106.00					
Top Log Interval		0.00					
Bottom Log Interval		6106.00					
Hole Fluid Type		WATER					
Hole Fluid Level		98.00					
Restriction ID		4.892		Gun Type			
Max Recorded Temp		201.00		Gun Size			
Well Head Pressure		0.00		CASING / TUBING RECORD			
Well Head Equipment				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	1625.00
Unit		14122		5.500	17.00	0.00	16851.00
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	LT&C	9.625	0.00	1625.00	36.00
PRODUCTION	P-110	LT&C	5.500	0.00	16851.00	17.00

REMARKS
SECUREVIEW ULTRAVIEW BONDVIEW LOG CORRELATED TO MARKER JOINT AT 5169'
100% FREEPIPE AMPLITUDE IN 5.5' 17# CASING IS 72mv
SEVERAL SECTION OF THE LOG EXPERIENCED DECENTRALIZATION AND CALVIEW LOG WILL BE PERFORMED OVER THOSE SECTIONS TO ENSURE THAT THE CASING SHOWS NO DAMAGE
CREW: AARON LITTLE, KYLE HUSETH, LEVI DONALDSON, JACOB PAULSON

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



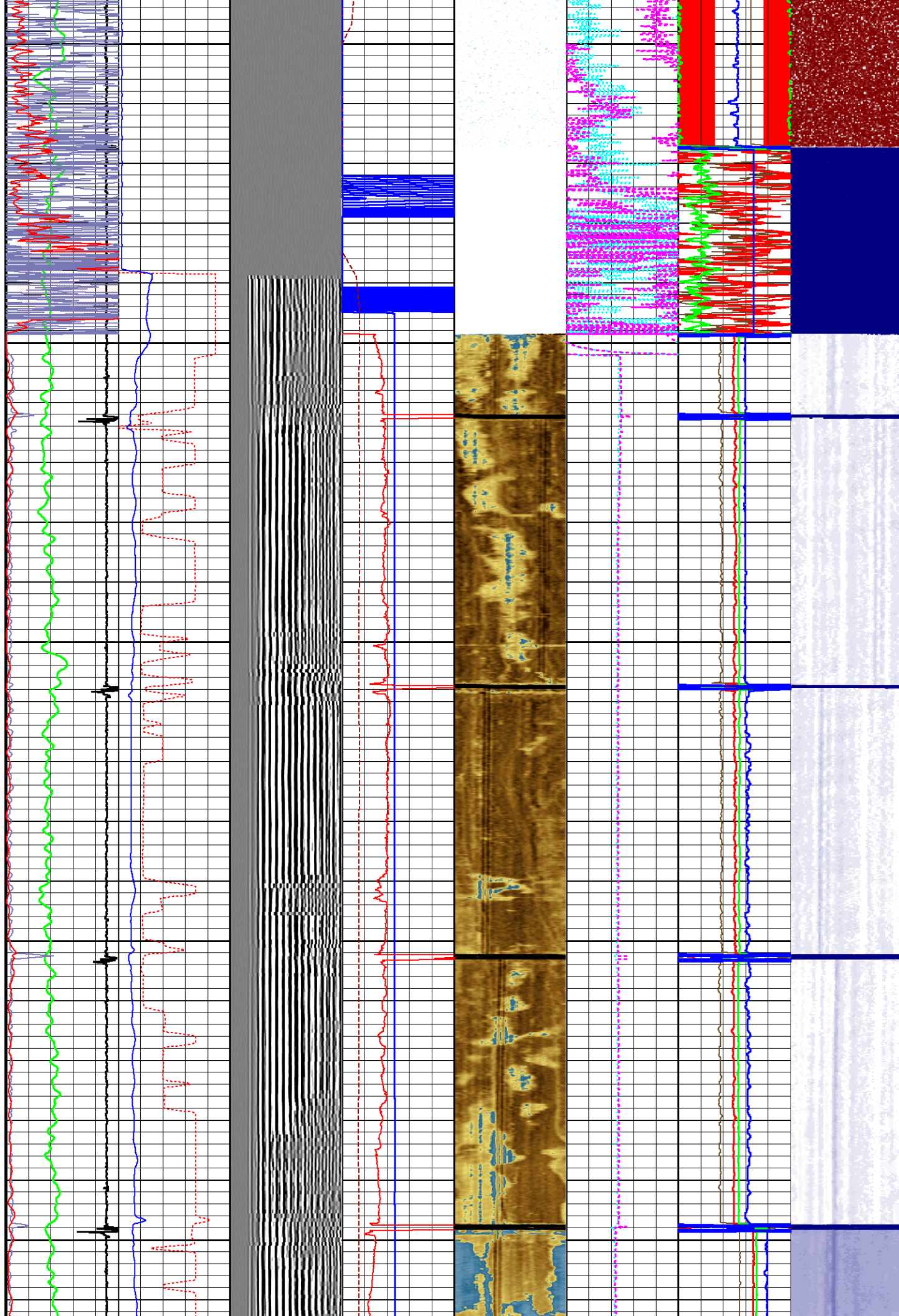
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200

250

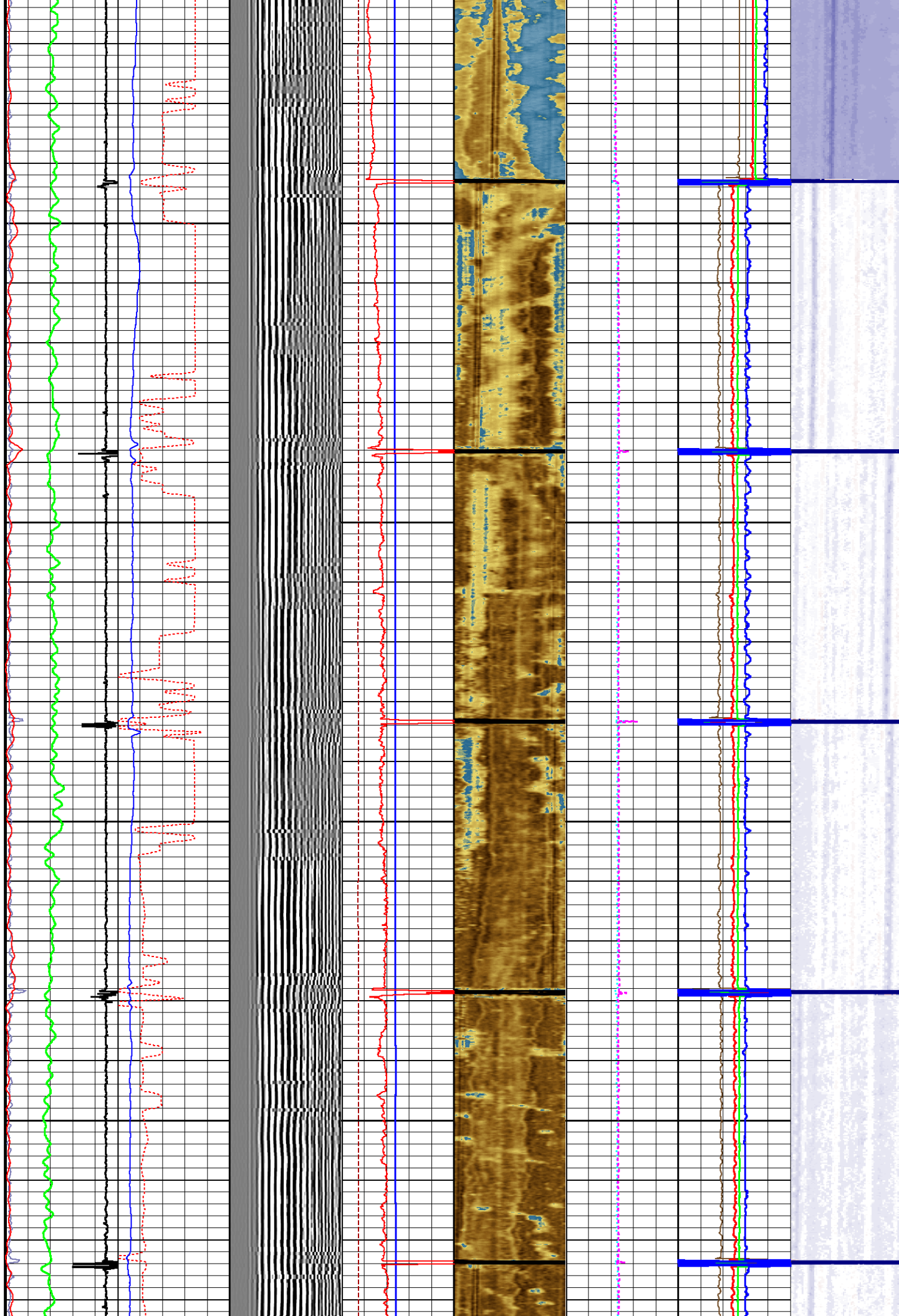


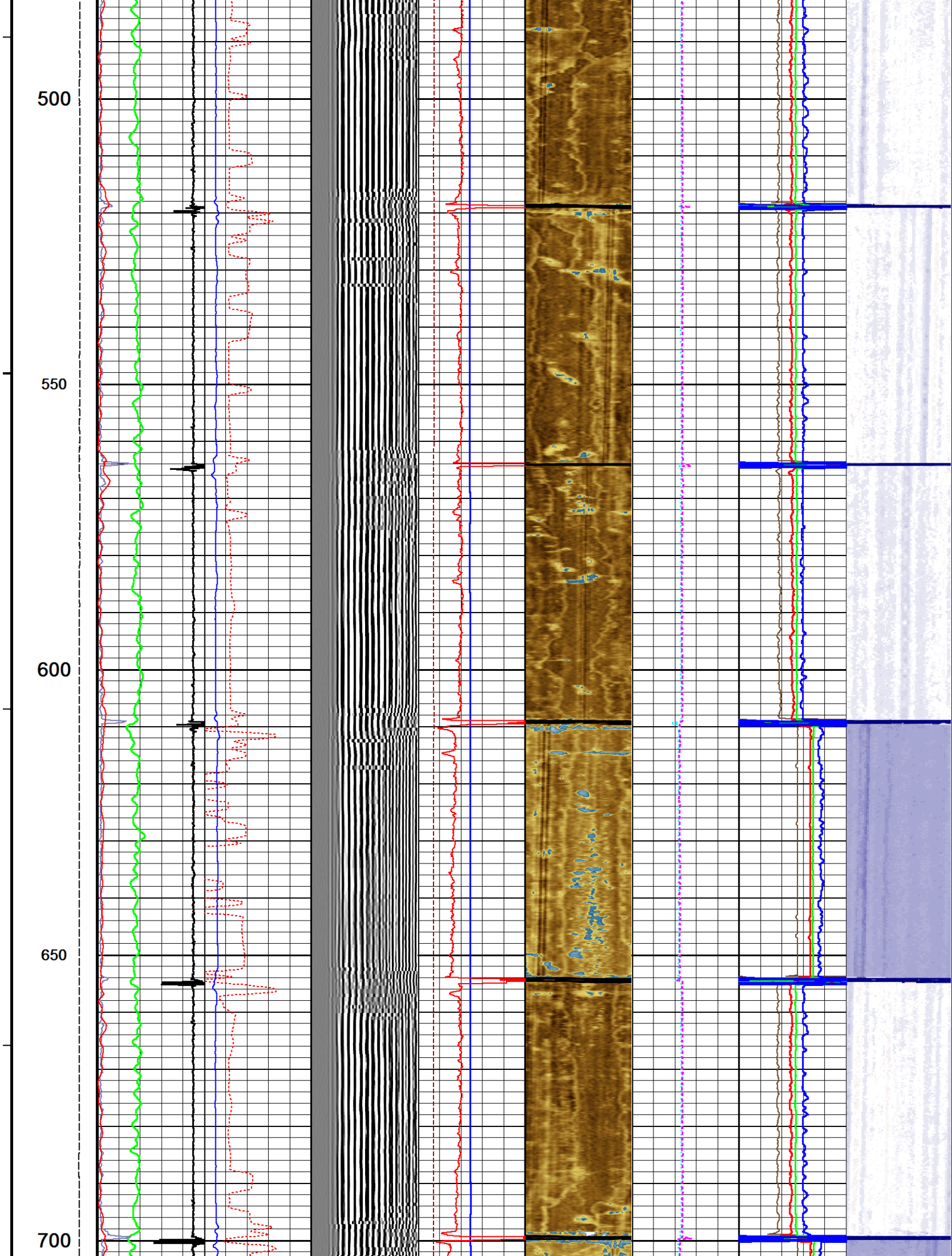
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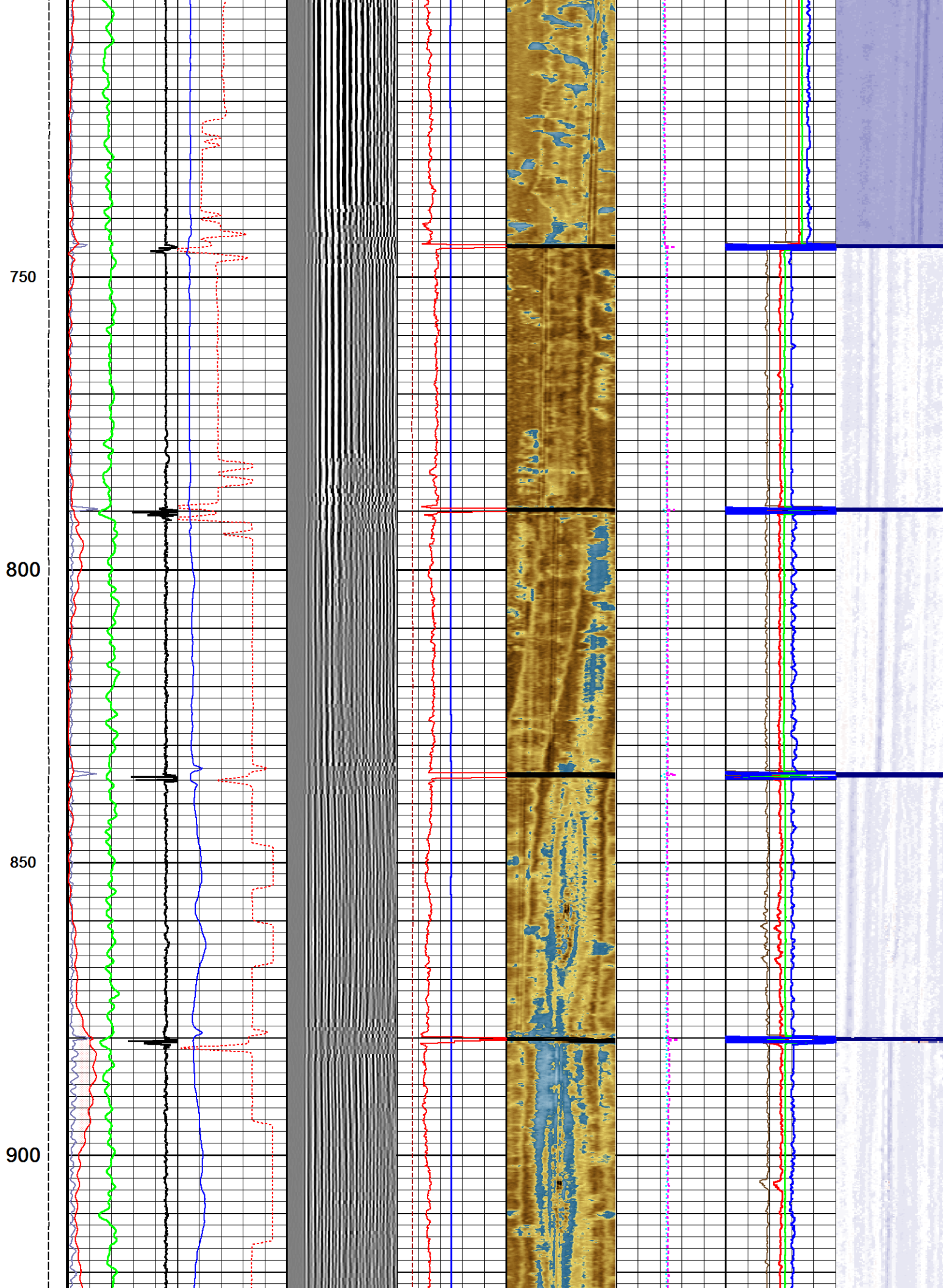
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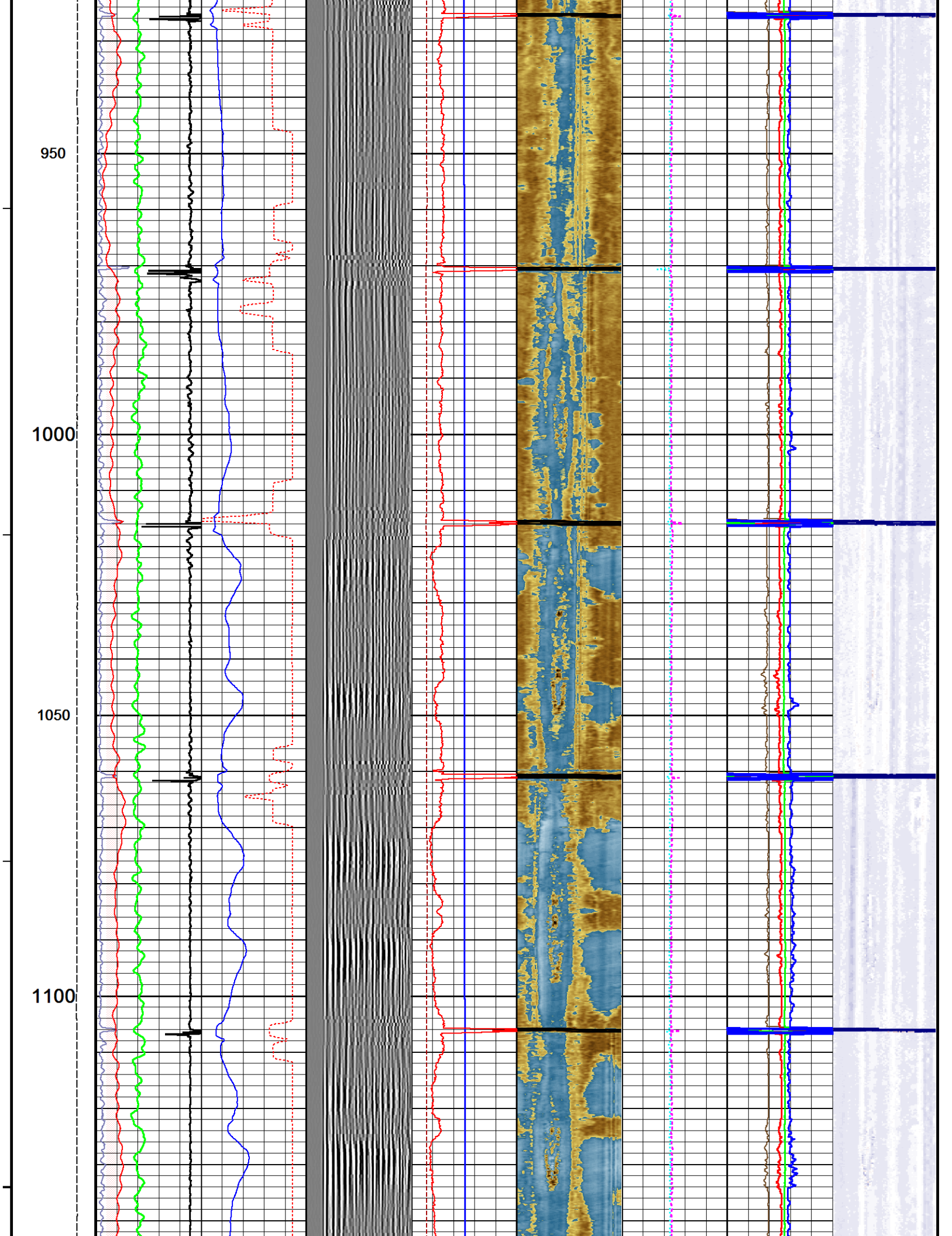
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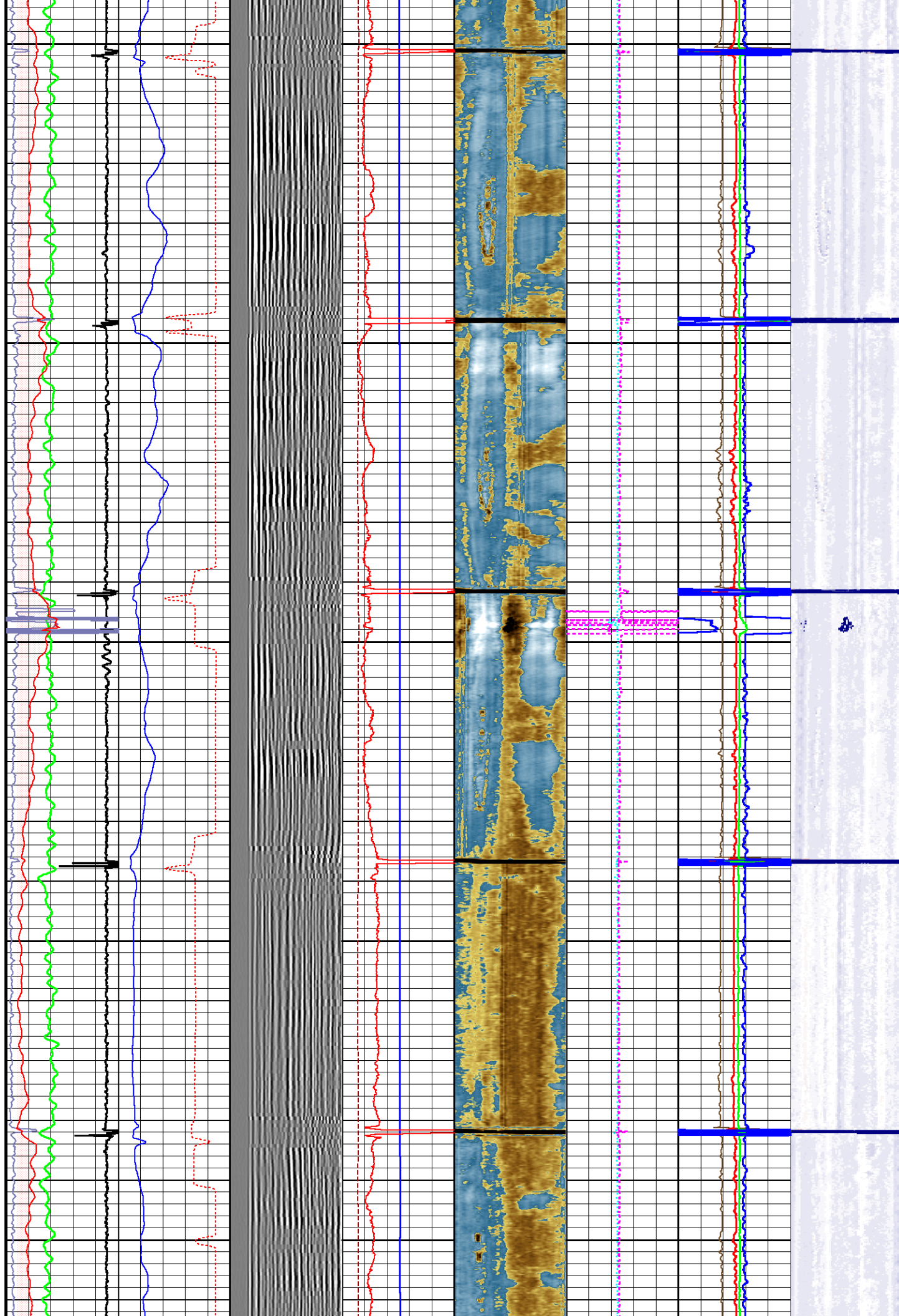
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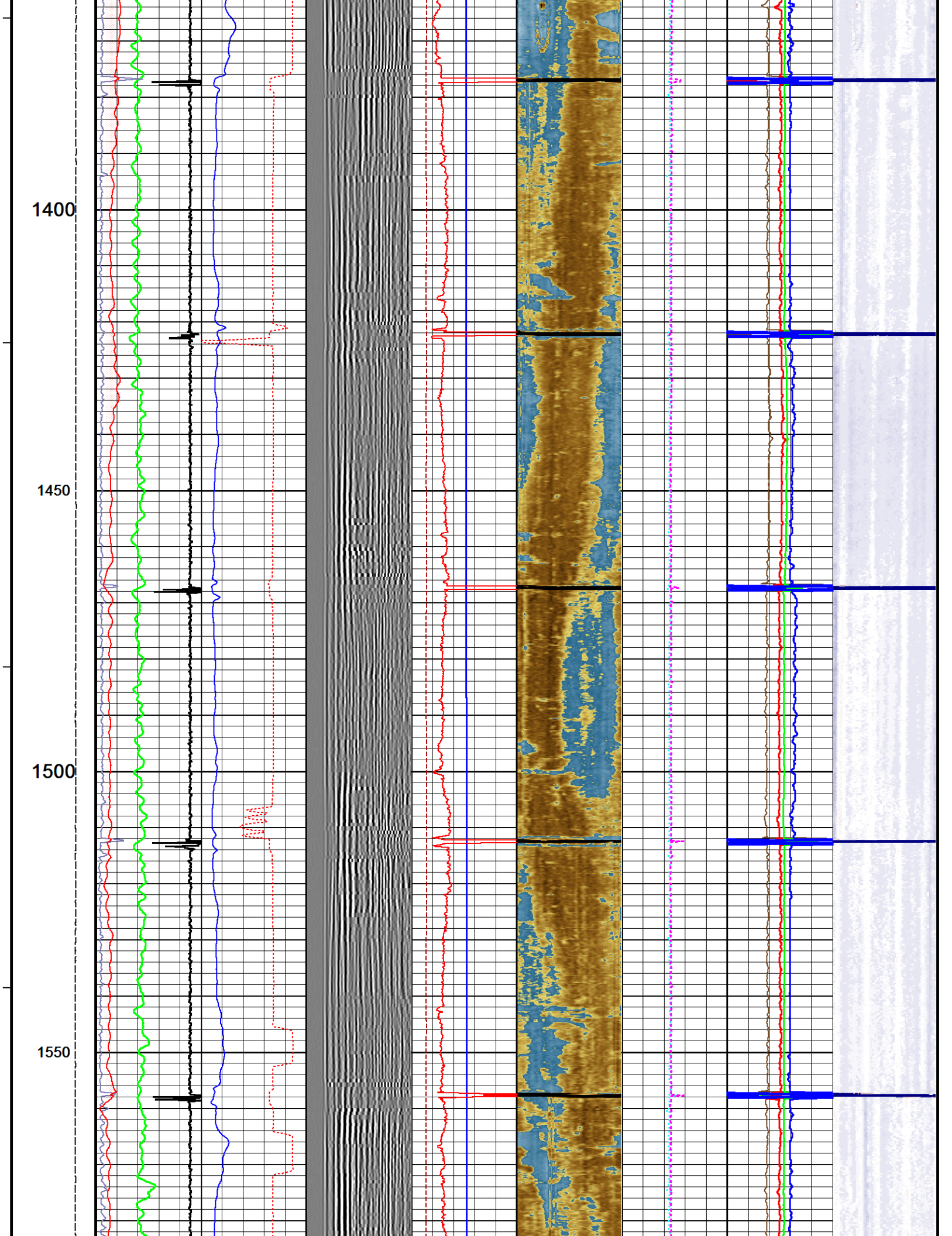
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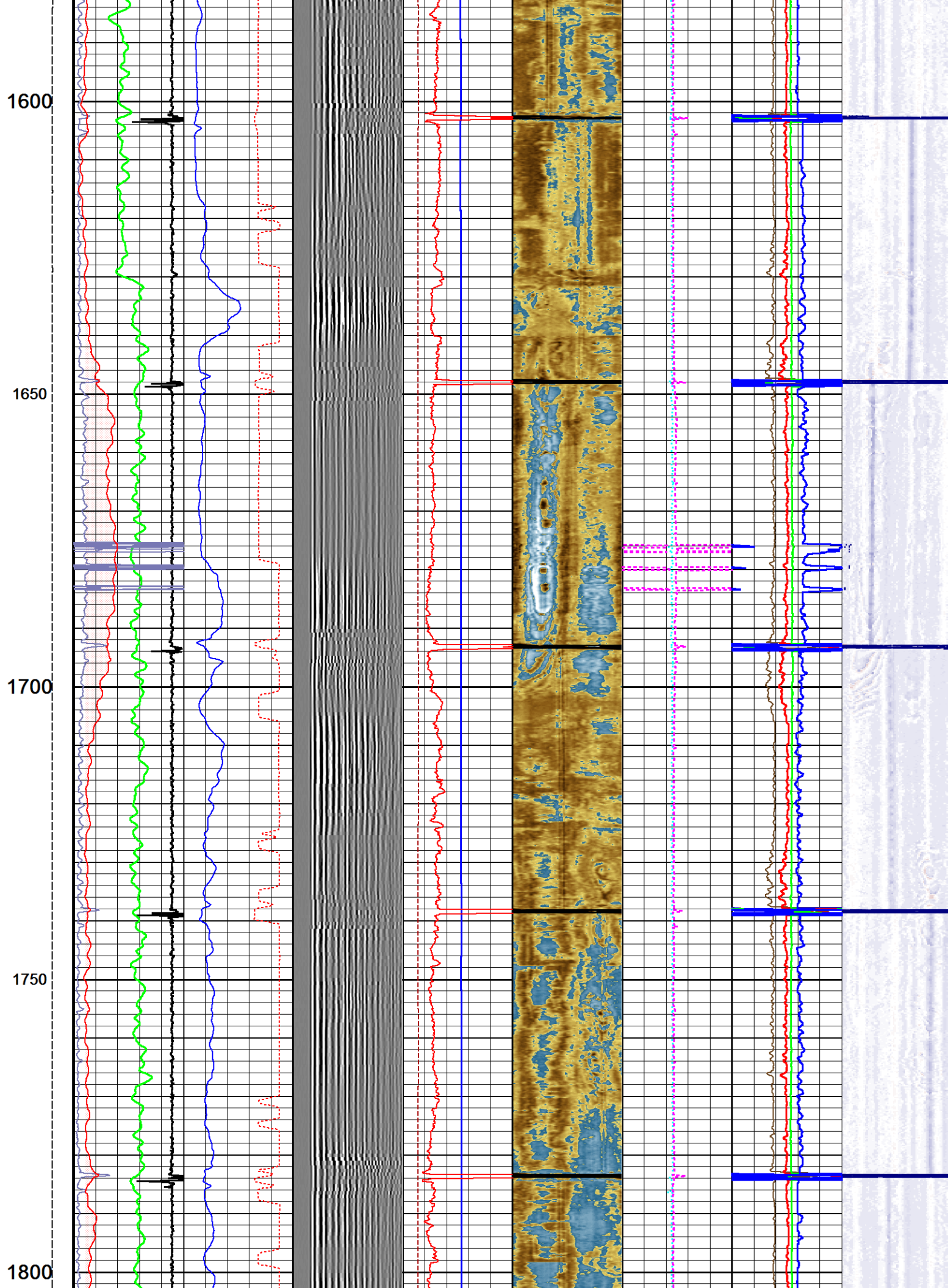
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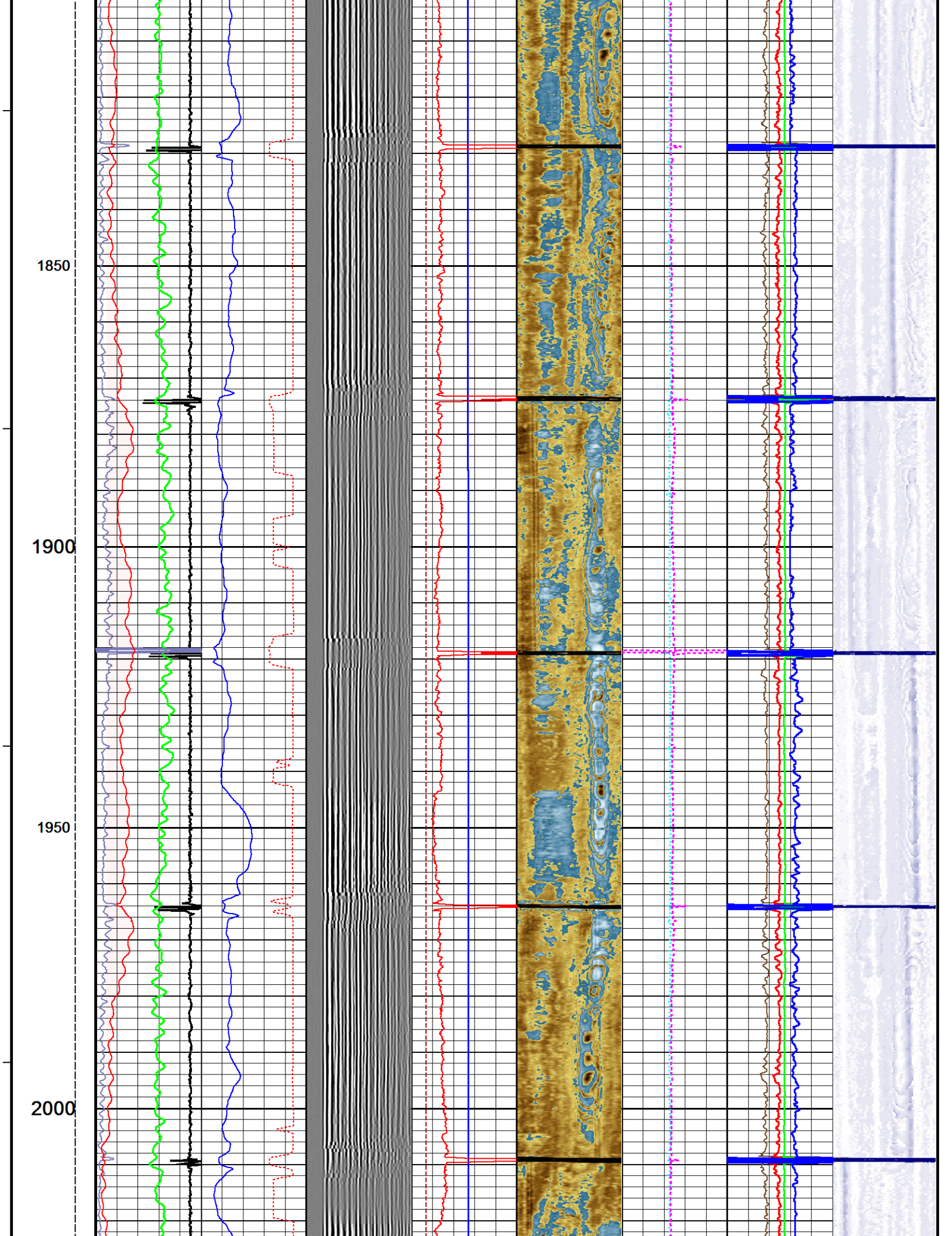
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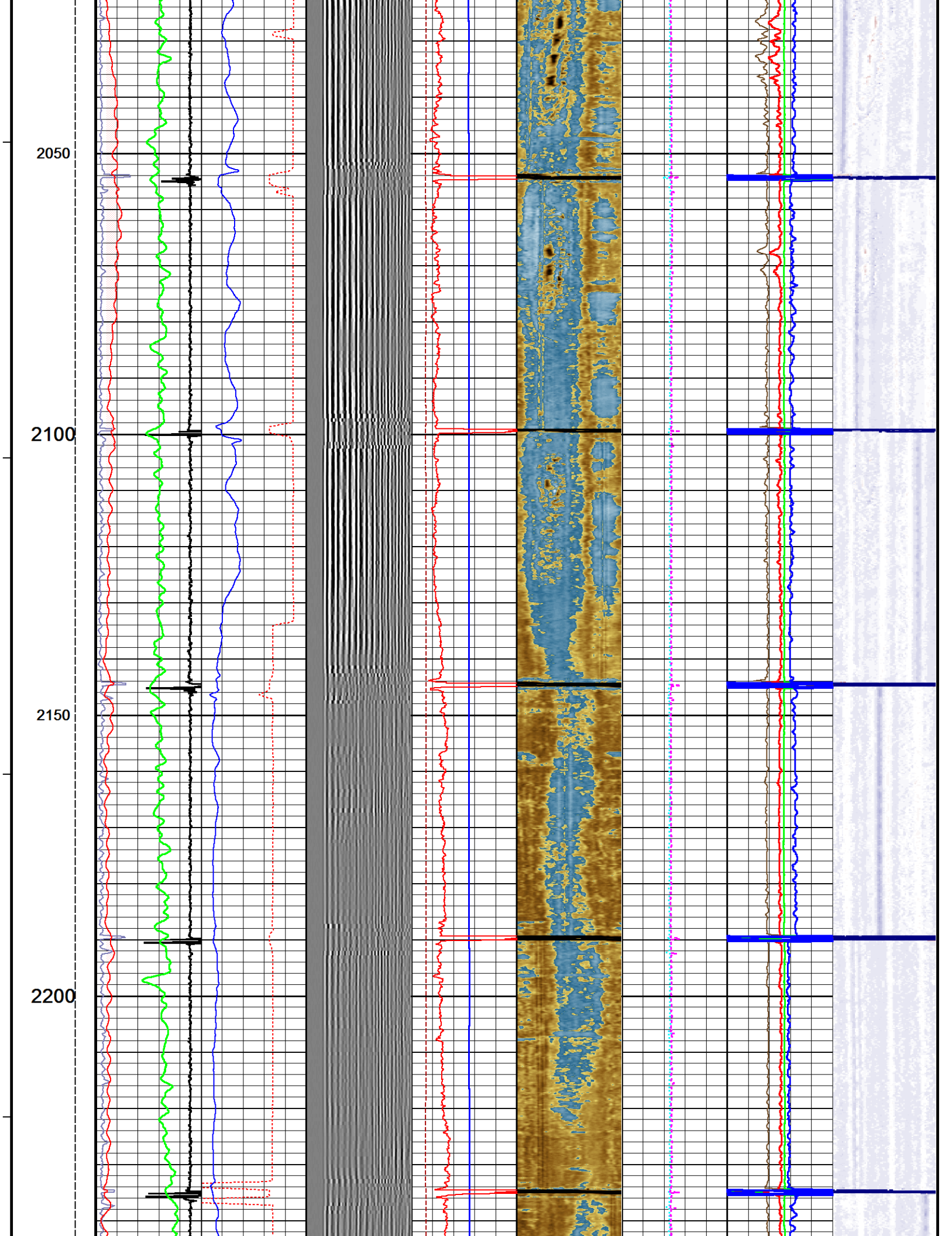
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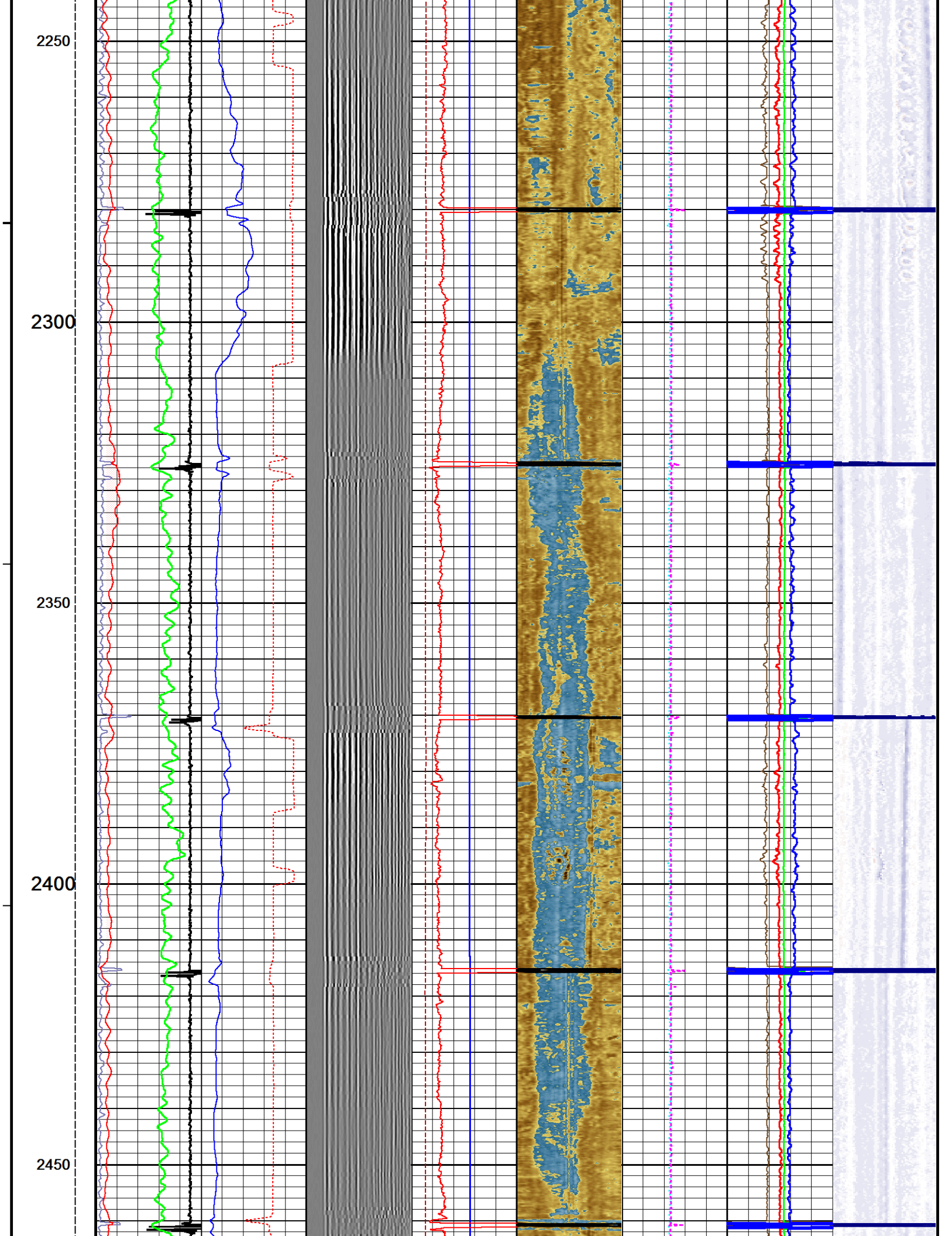










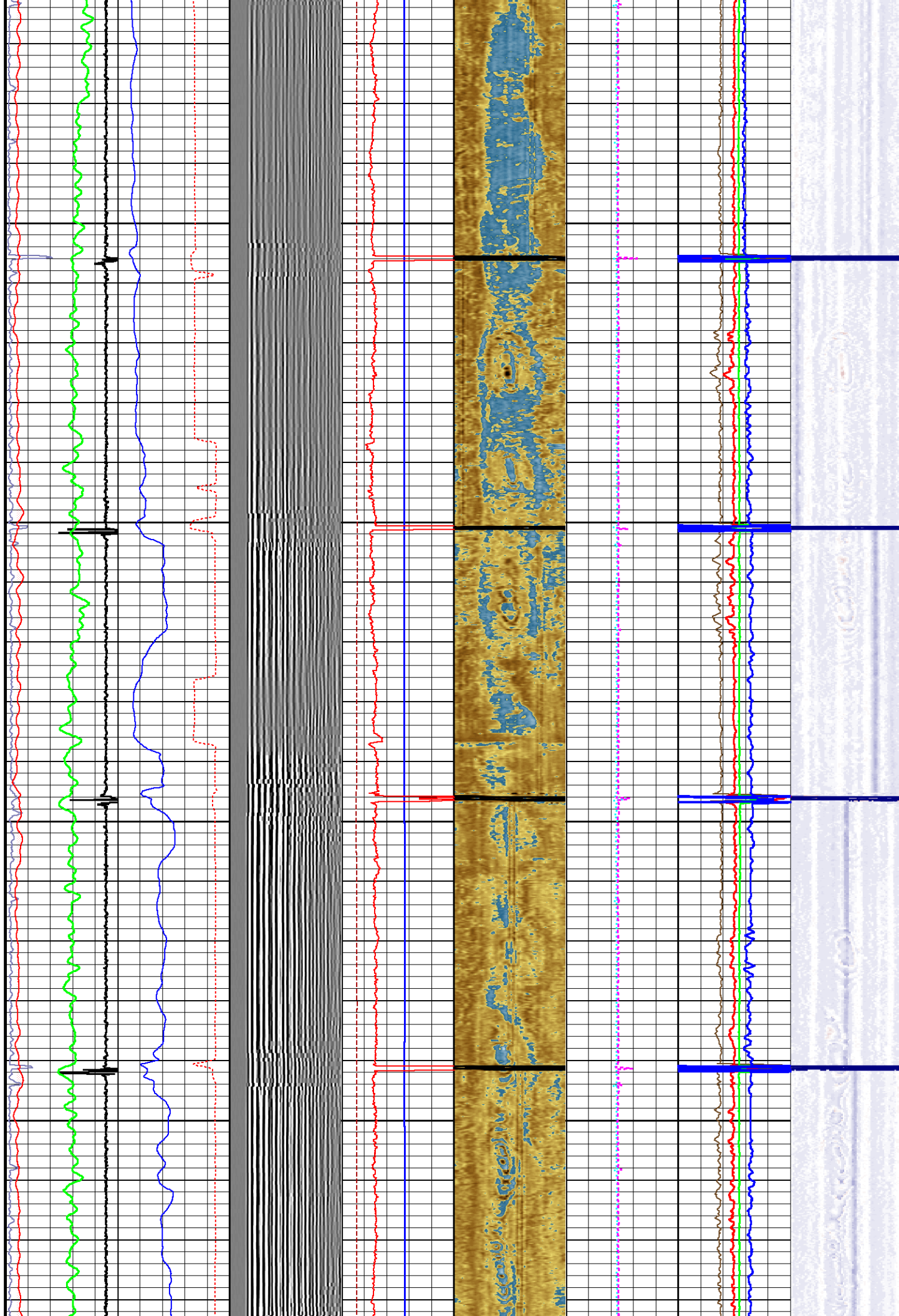


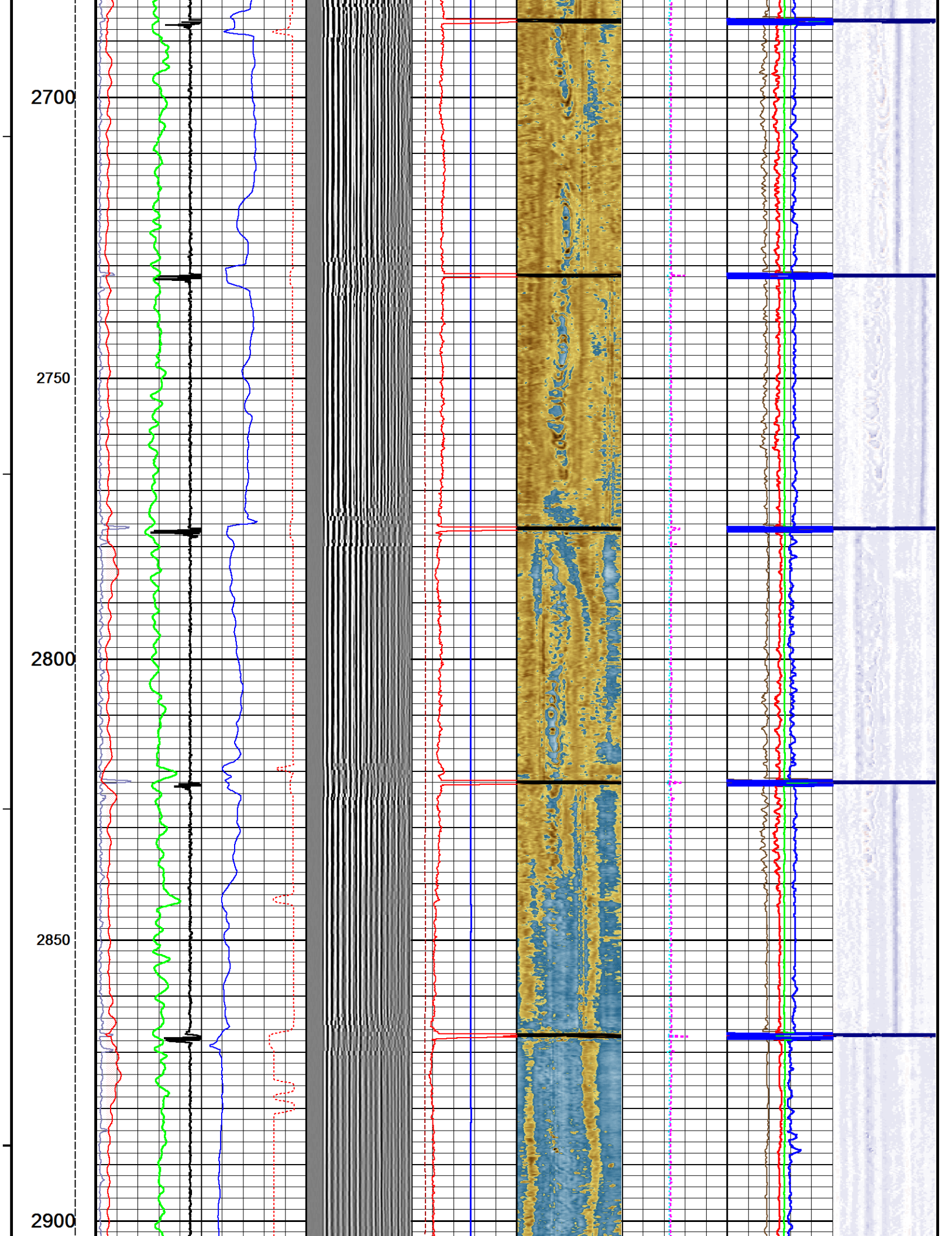
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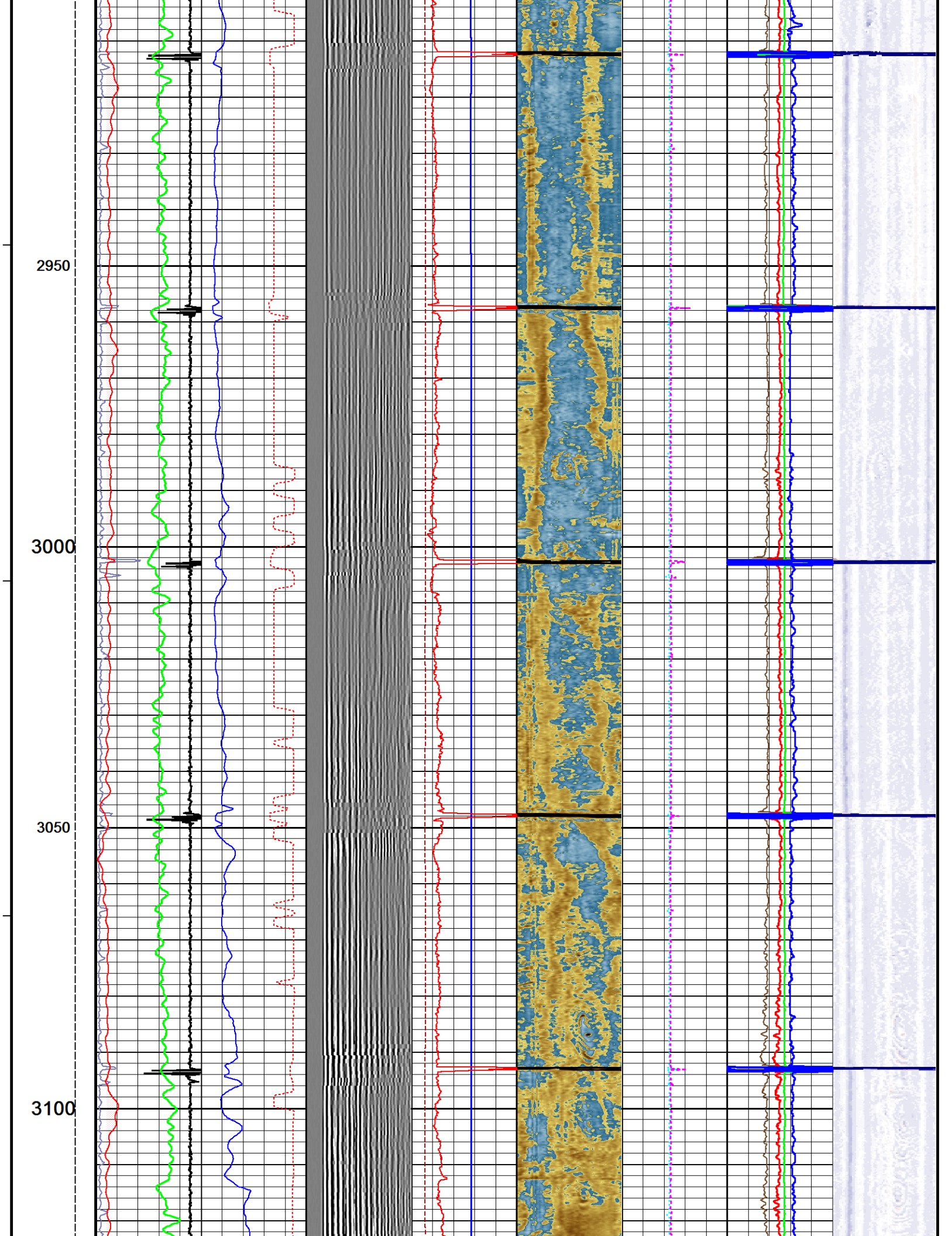
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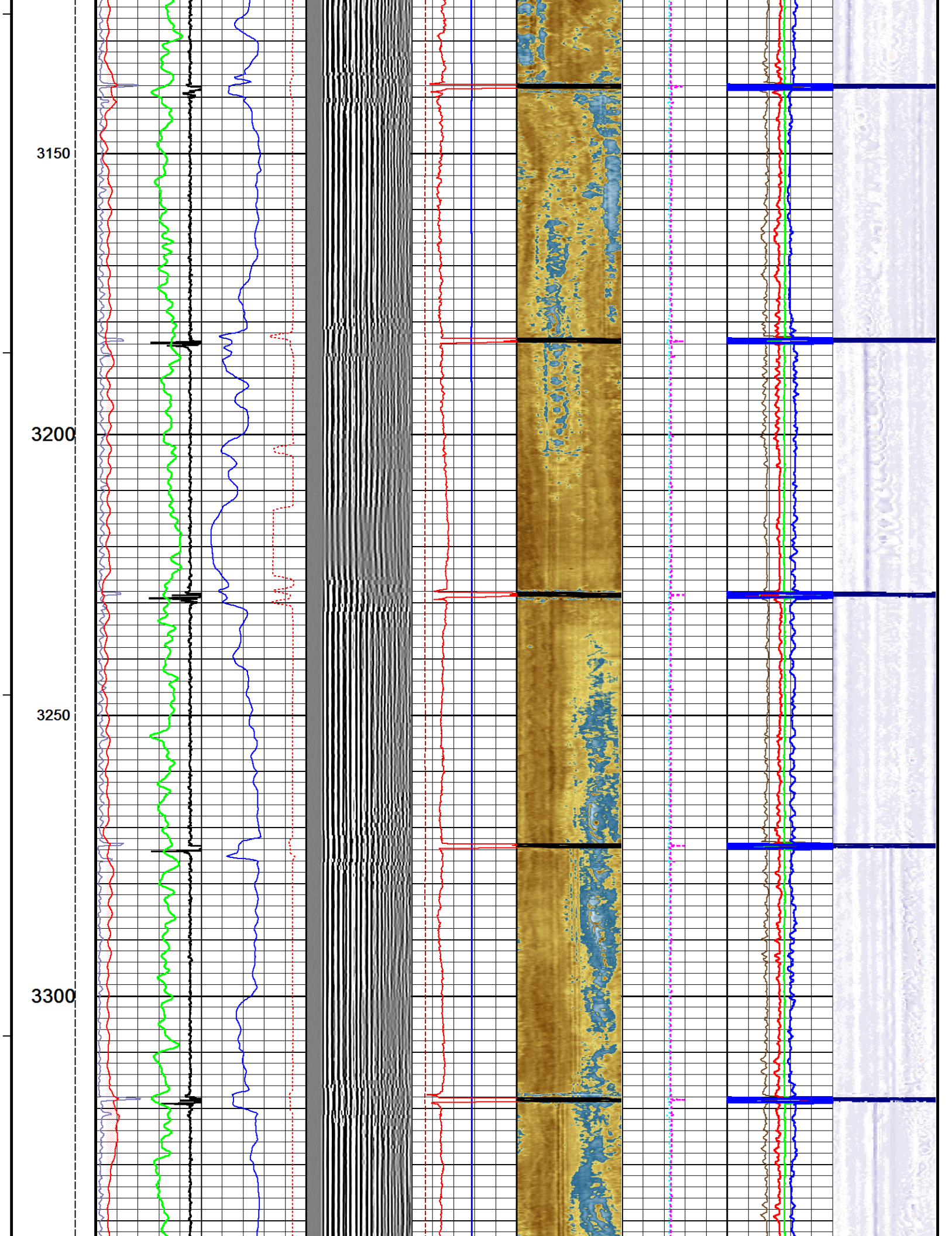
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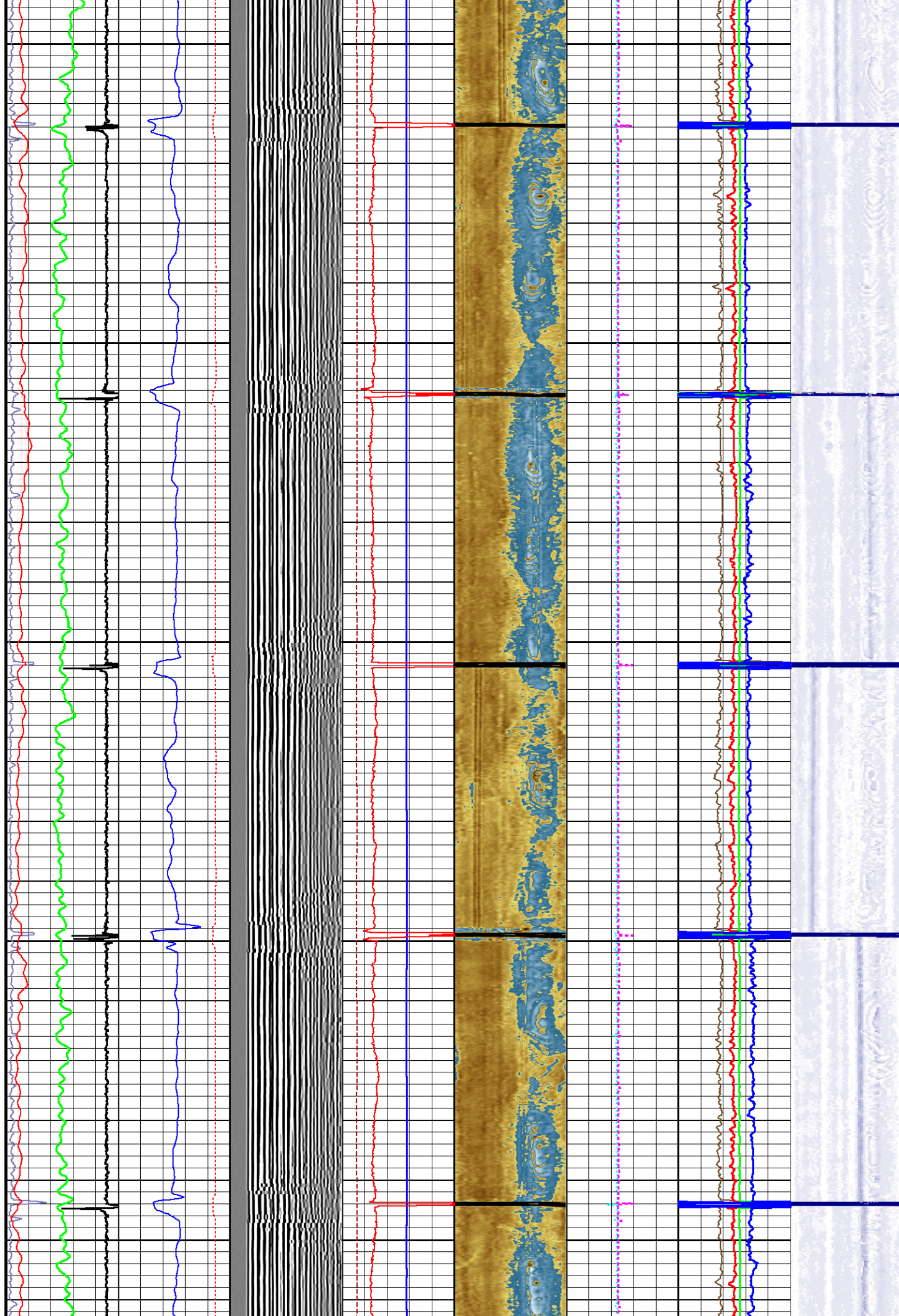
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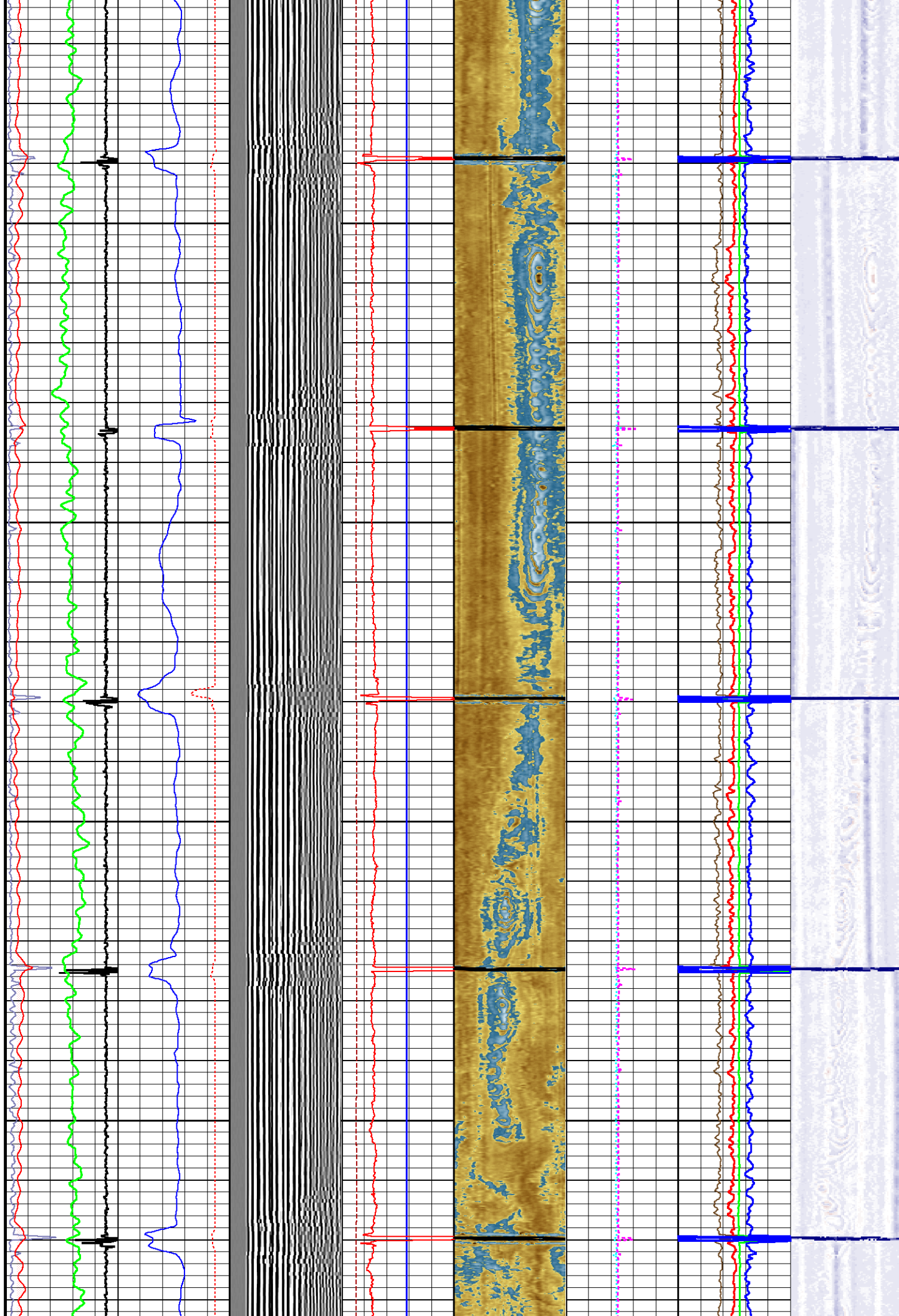


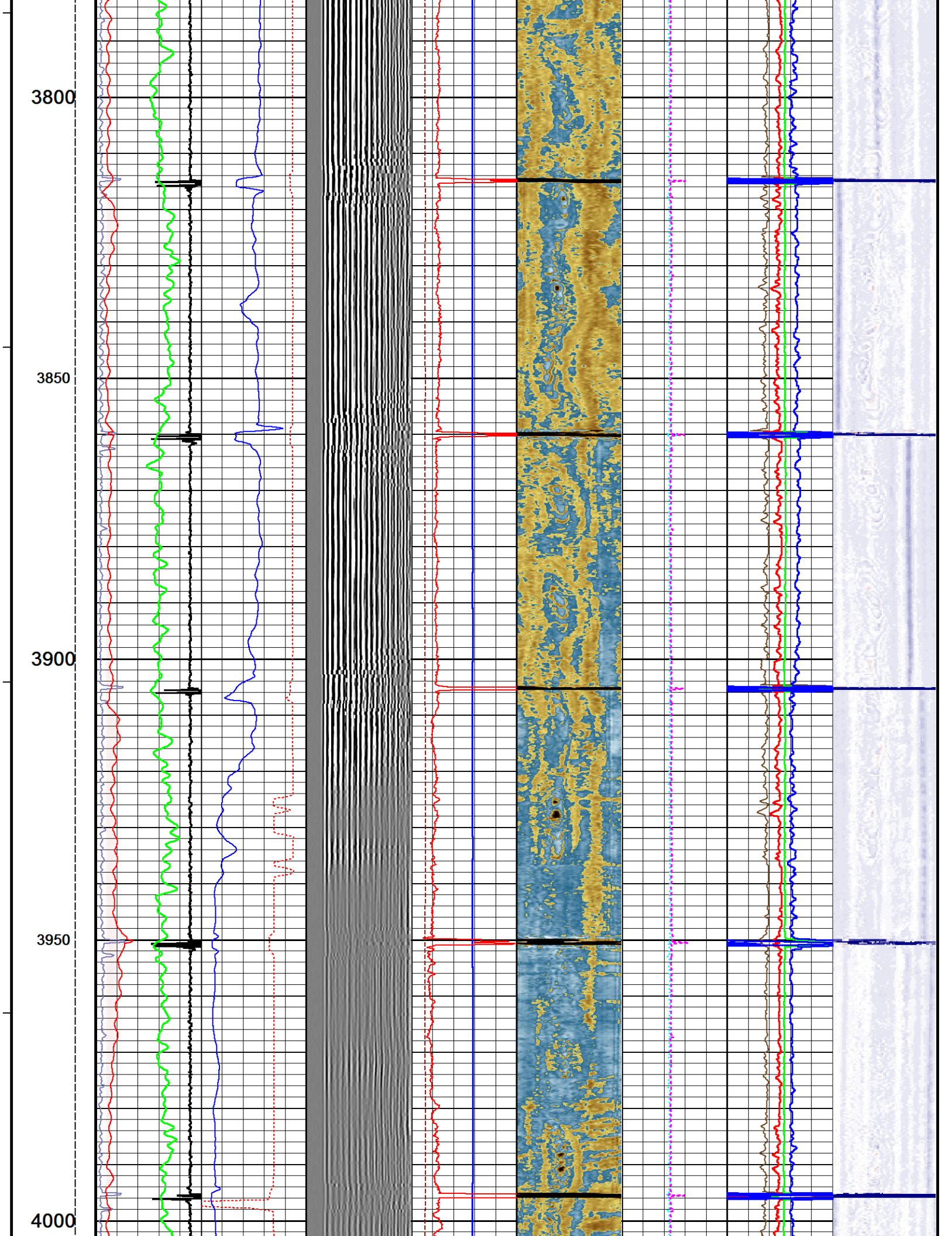
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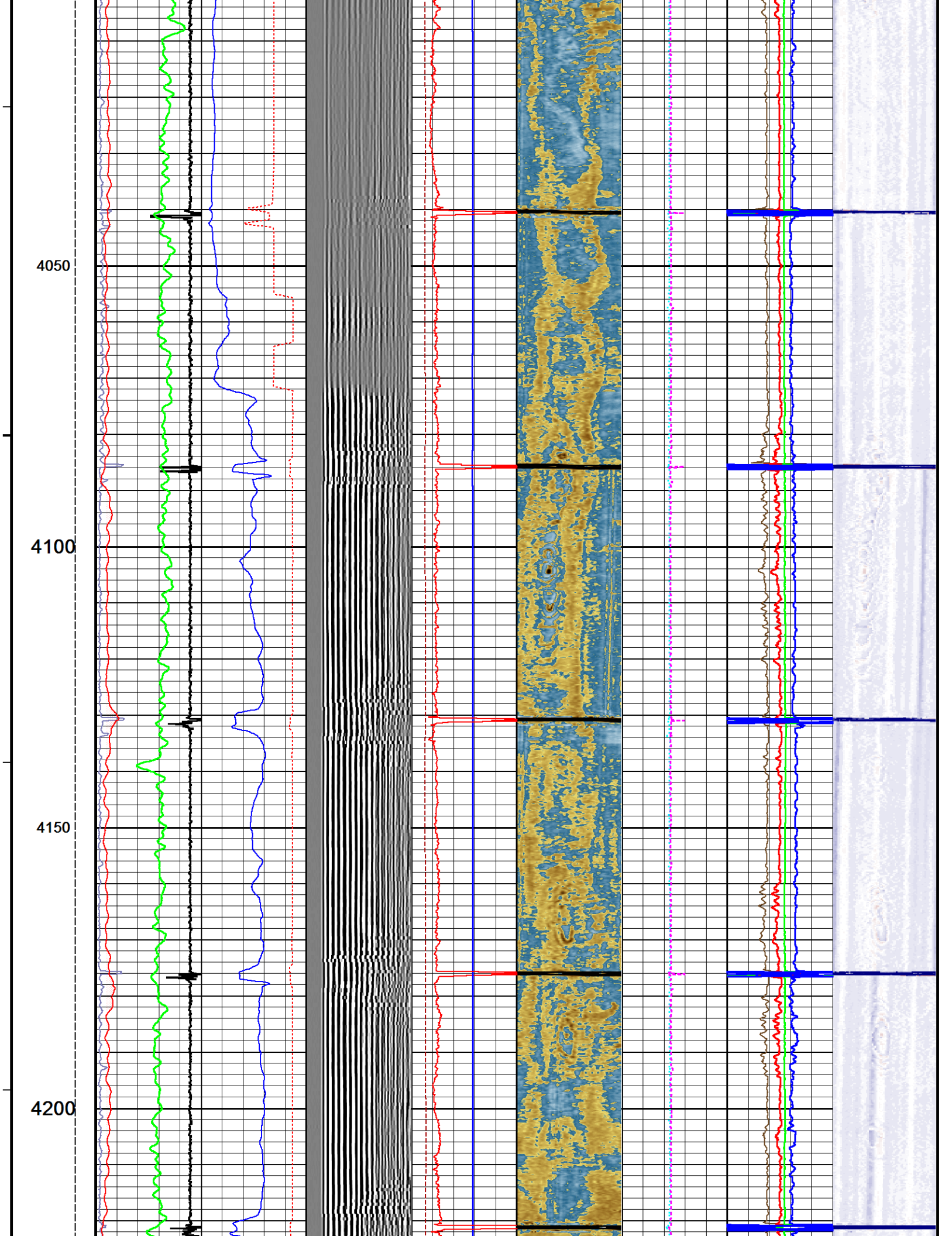
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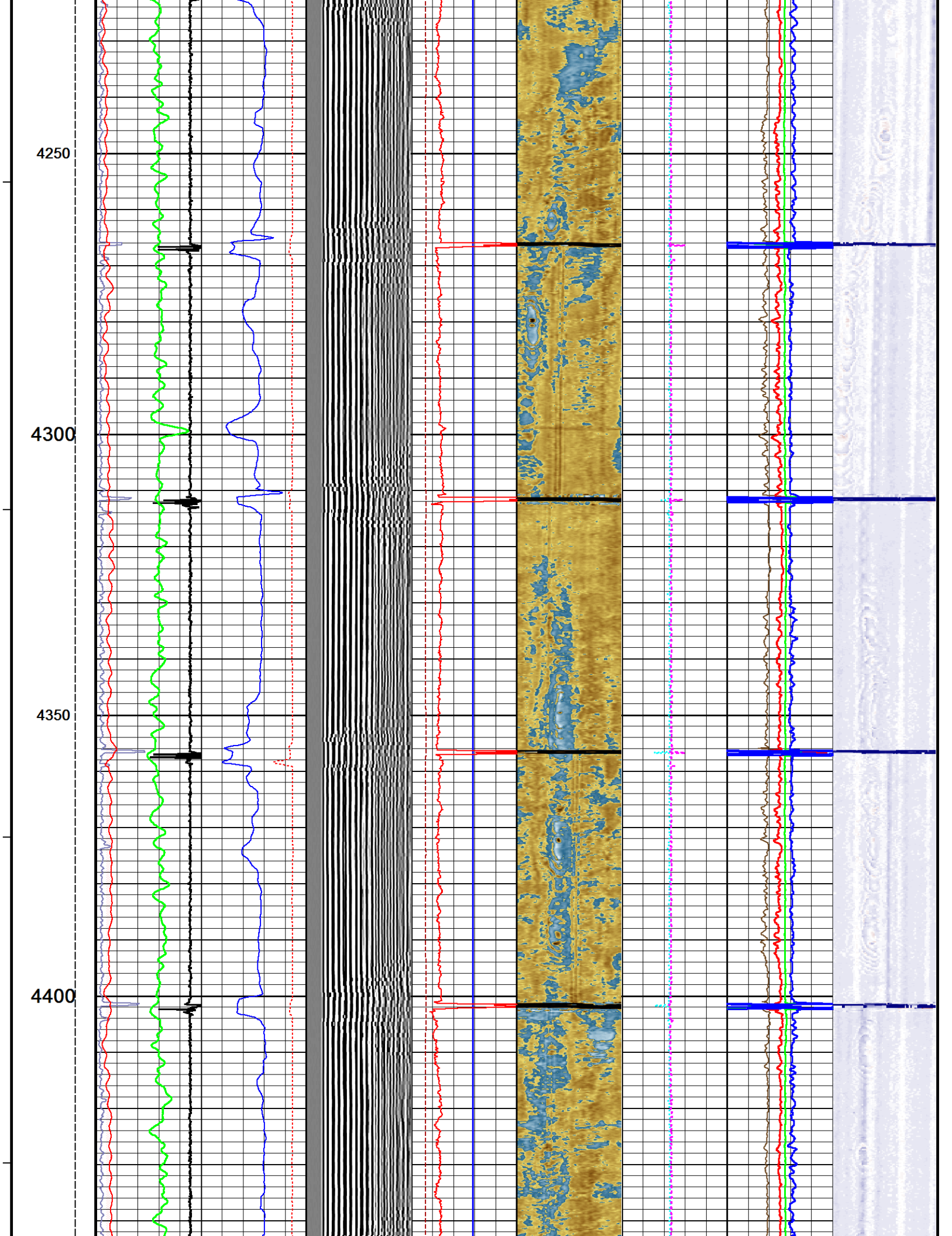
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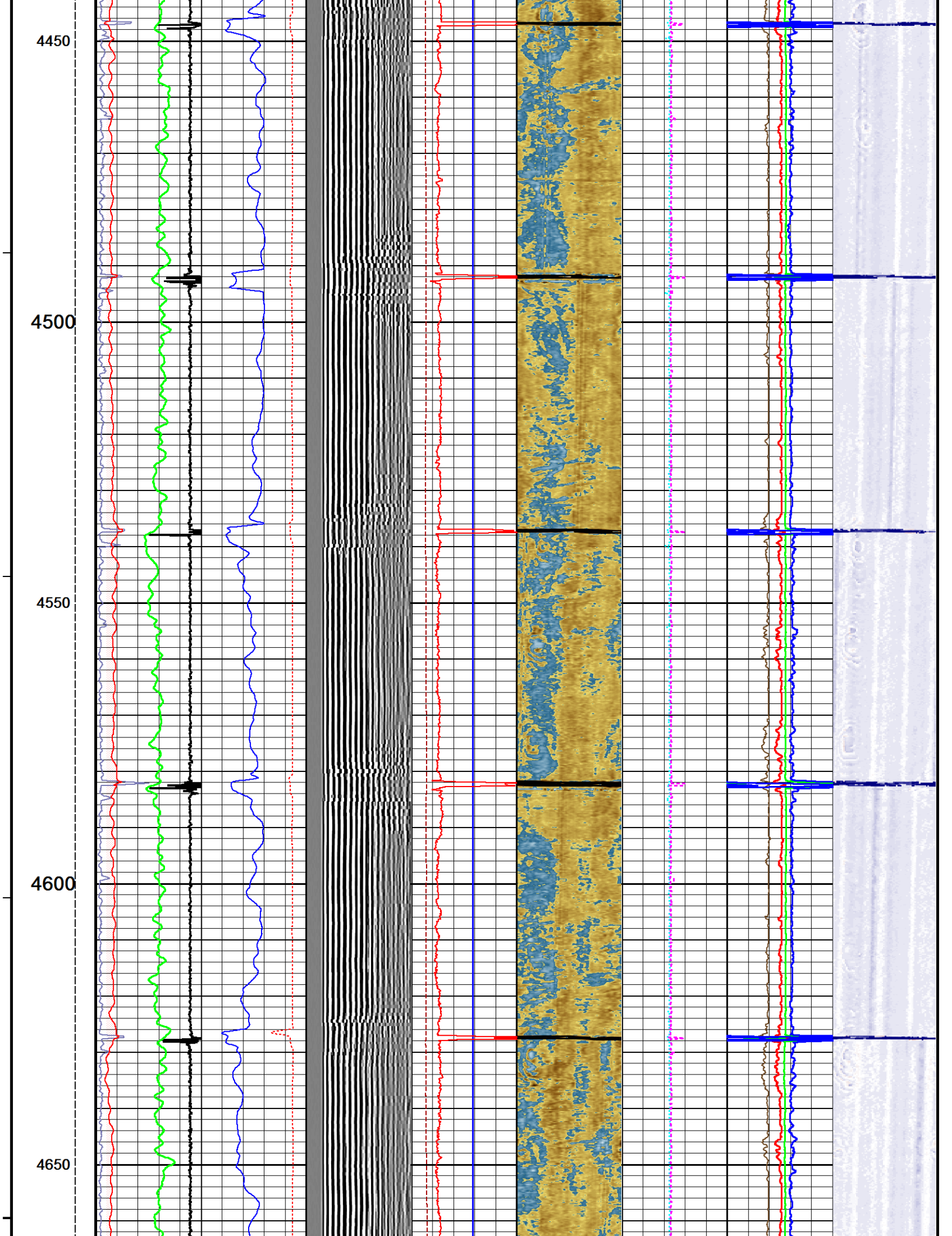
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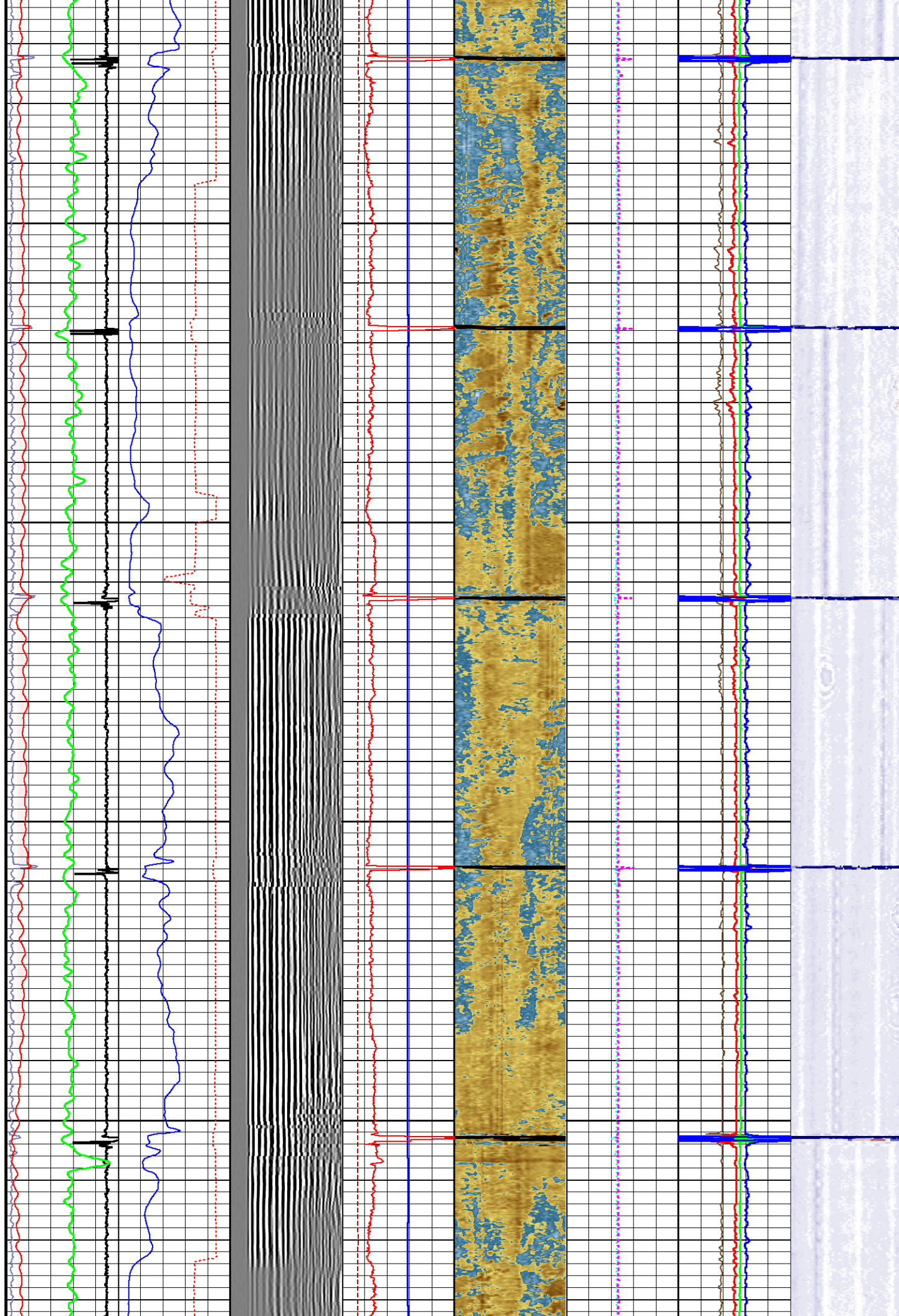


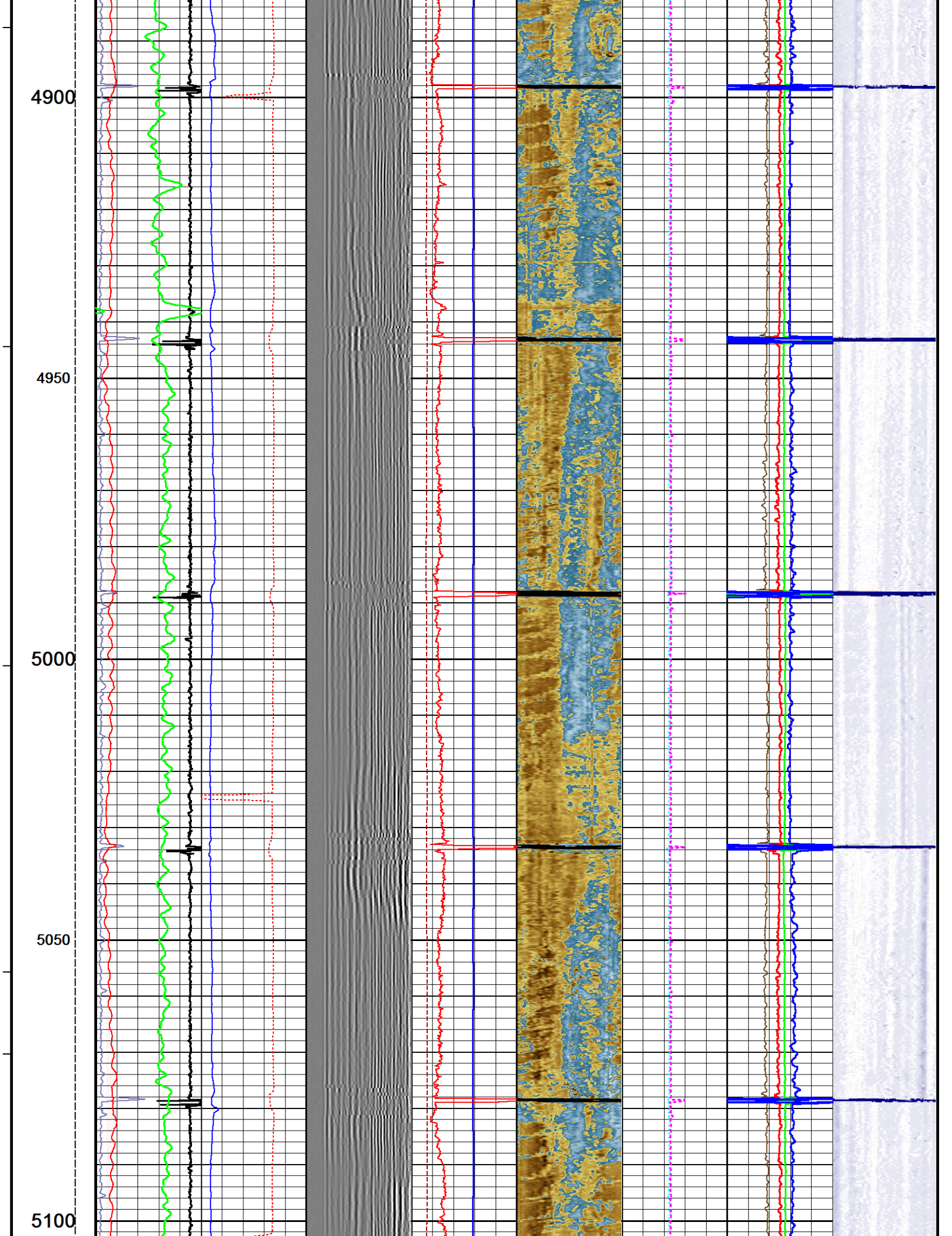
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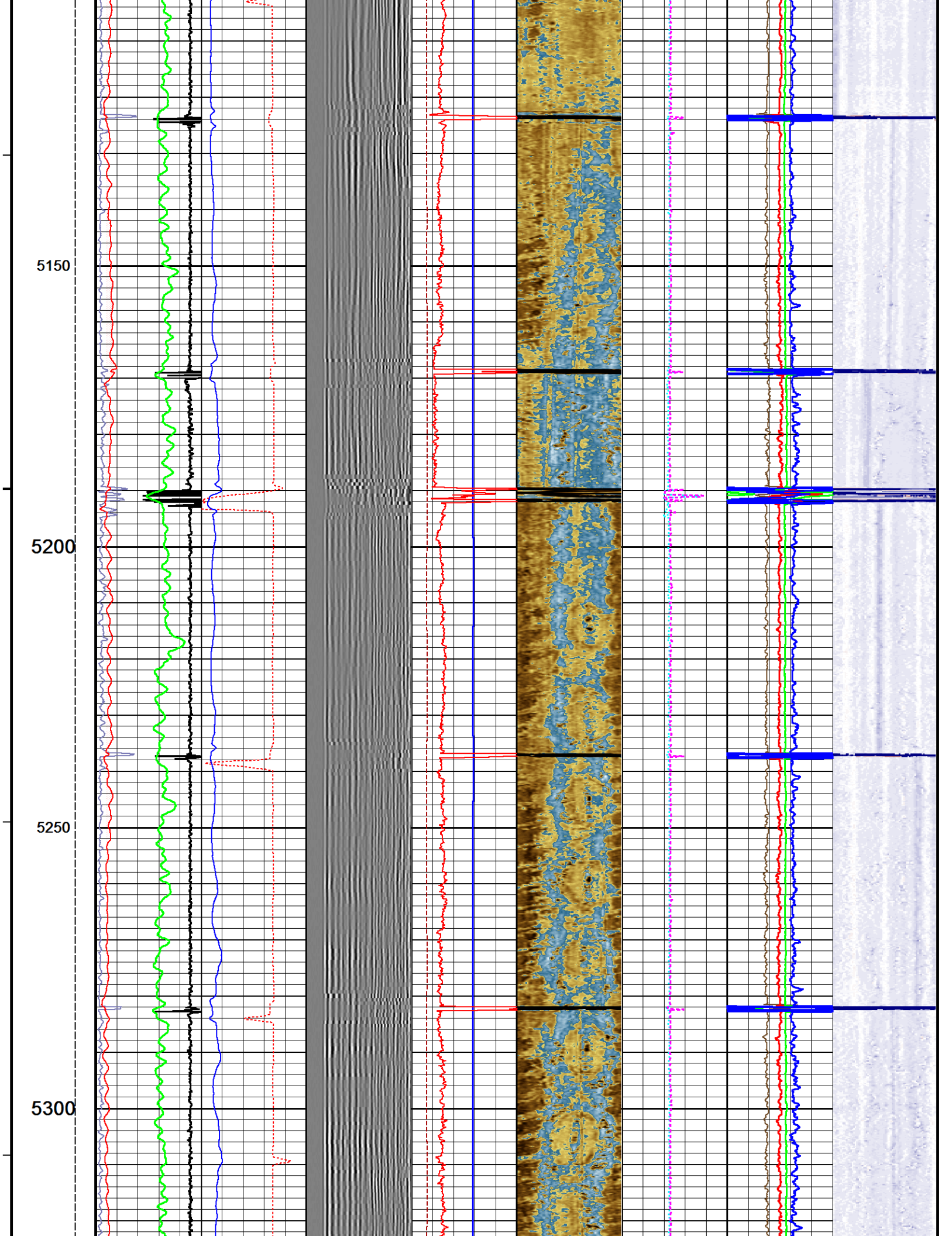
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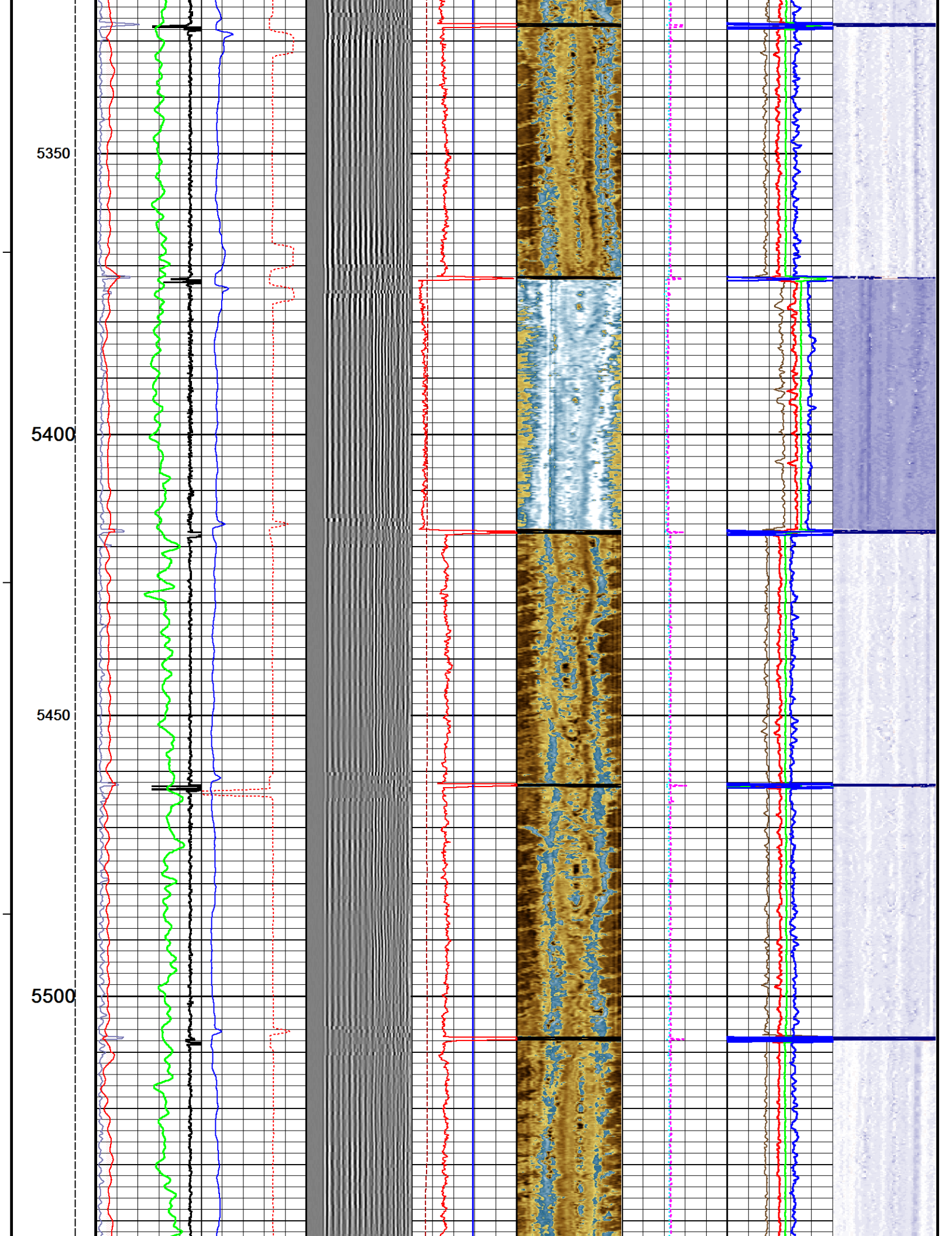
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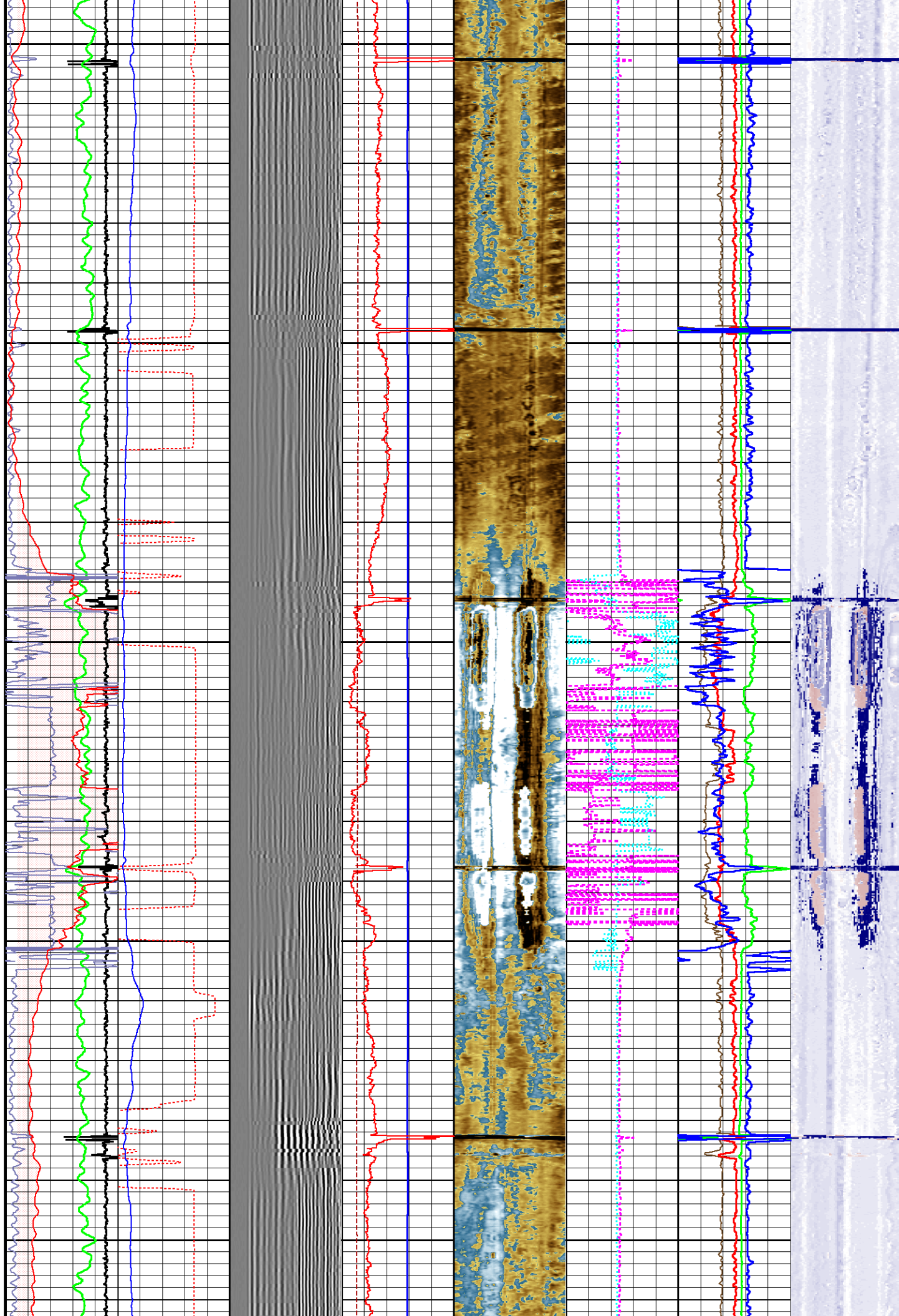
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5600

5650

5700

5750

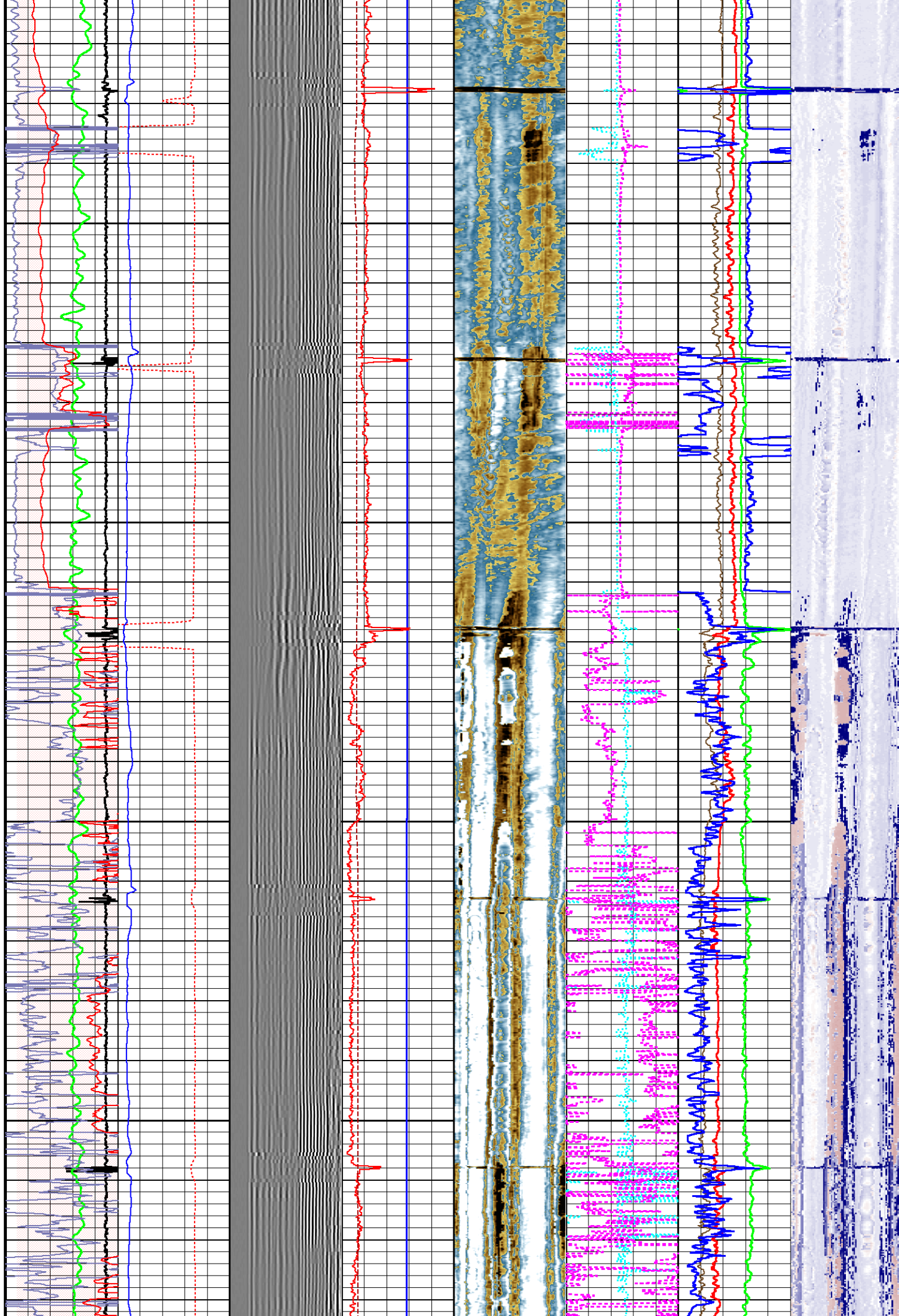


5800

5850

5900

5950



6000

6050

6100

6112

Depth
in
Feet

CCL
MV

TM3
US

XY5
US

MUDT
US/F

IMMP
K/M2

DIMN
IN

MNBU
psi

TKMP
IN

-4500 500

400 200

-40000 40000

250 150

0 6 4

6 9000 17000

0.20 0.40

GR
API

0 150

150 300

OVLI
PCNT

0 10

AM3F
MV

0 100

ECCE
IN

0 1

IMAV
K/M2

0 10

IMRF
K/M2

0 10

THMN
IN

0.20 0.40

THAV
IN

0.20 0.40

DIMX
IN

4 6

THMX
IN

0.20 0.40

Timing
Marks
every
60.0 sec

TENS

5000 0

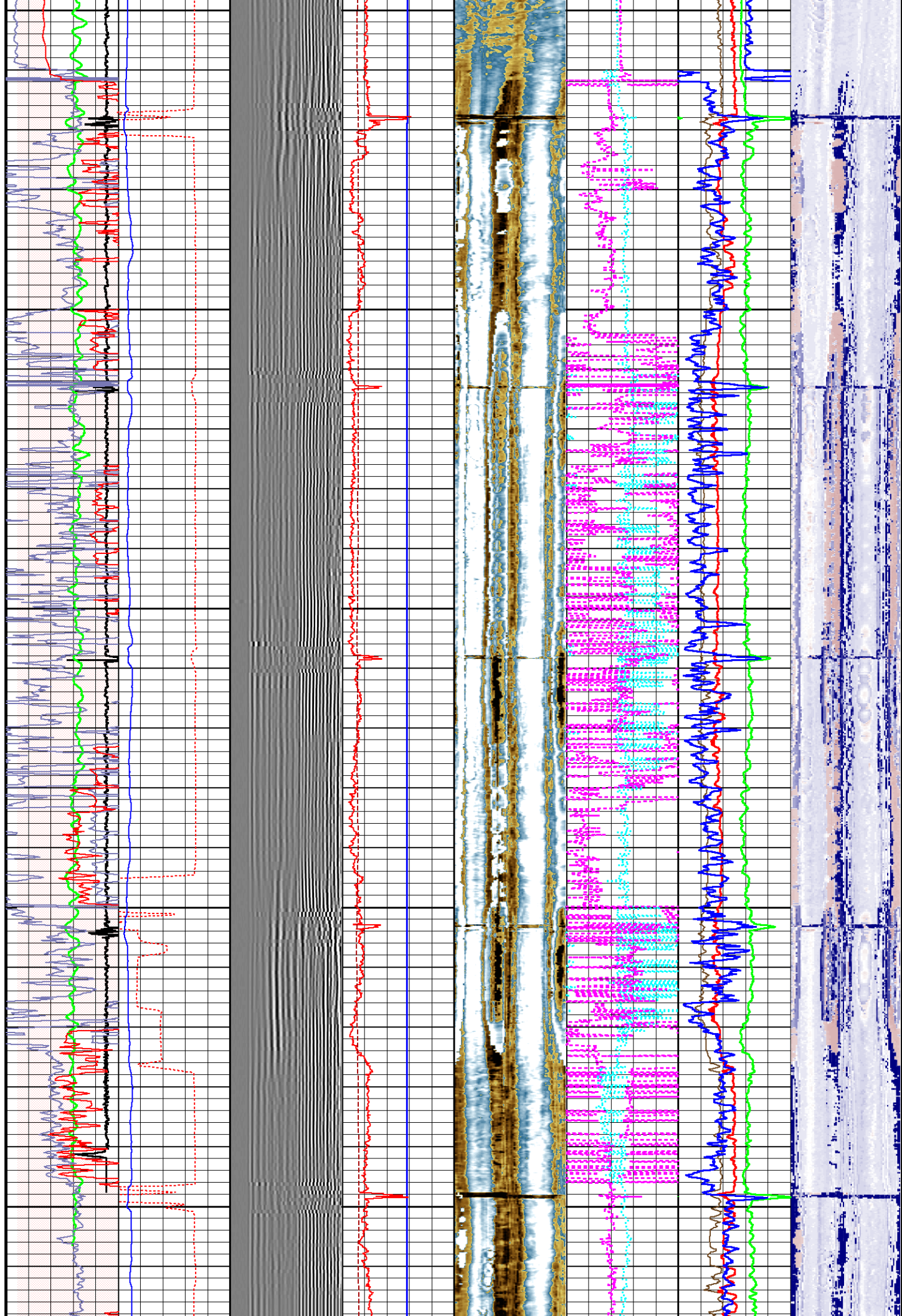
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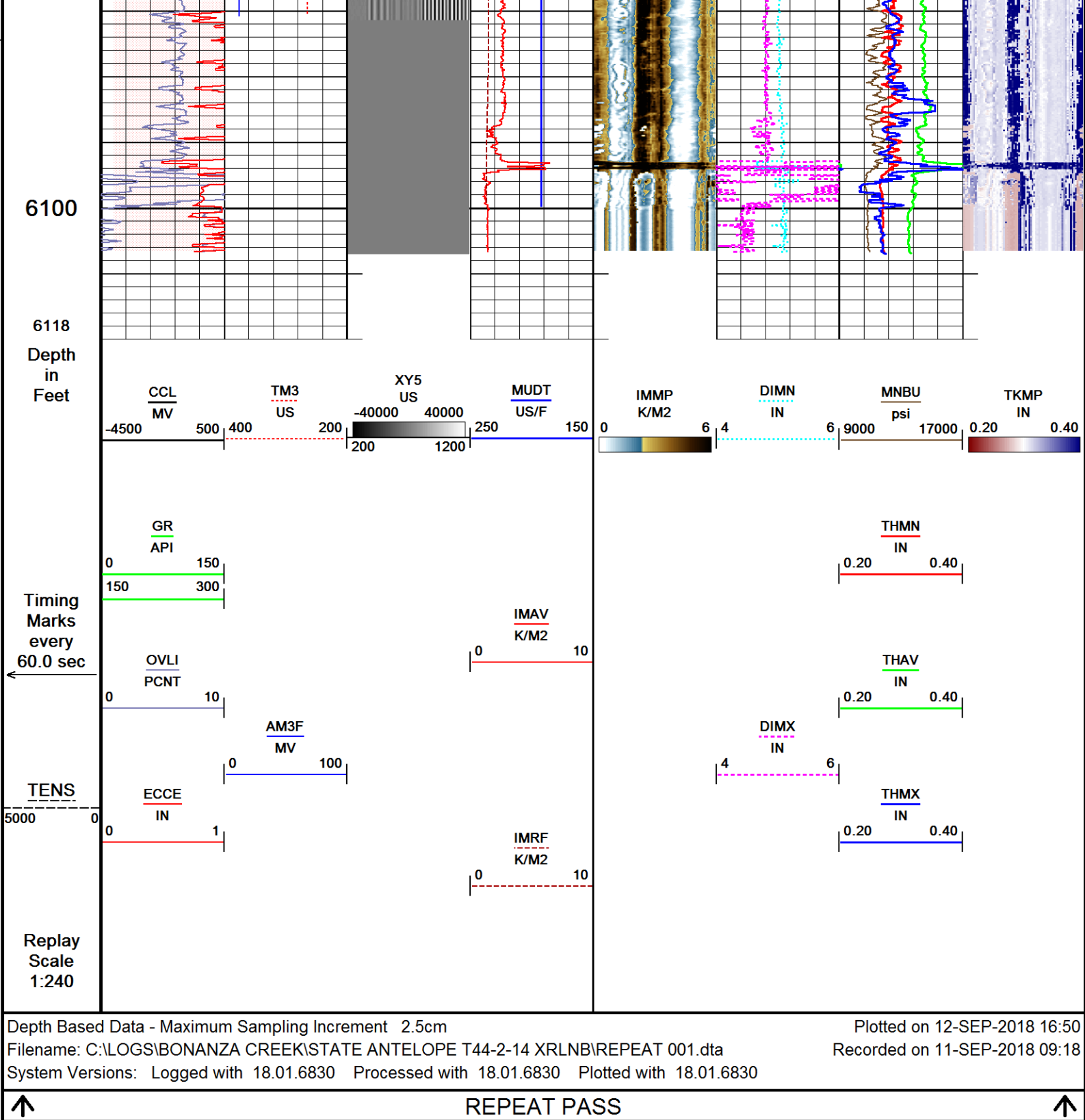
5900

5950

6000

6050





Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\LOGS\BONANZA CREEK\STATE ANTELOPE T44-2-14 XRLNB\REPEAT 001.dta

System Versions: Logged with 18.01.6830 Processed with 18.01.6830 Plotted with 18.01.6830

Plotted on 12-SEP-2018 16:50

Recorded on 11-SEP-2018 09:18

SHOP AND FIELD CALIBRATIONS

C:\LOGS\BONANZA CREEK\STATE ANTELOPE T44-2-14 XRLNB\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
------------	------------	----------	-------

Background	0.0	Surf. Backscat	412.0	Standard	140.0	Count	CPS
Delta Counts Per Sec: 412.0				CPS/API = 2.943			

CBT Field Calibration CBT-AA 115			
Field calibration on 10-SEP-2018 10:30			
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	3.10	1.21
	Free Pipe	72.00	609.00
AMP 5 FT	100 % Bond	0.30	2.72
	Free Pipe	48.00	564.35

CBT Constants CBT-AA 115			
Last Edited on 11-SEP-2018 09:08			
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 07-AUG-2018 09:28			
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	4.040	0.000	0.000	K/M2

URS Constants USH-AB 136			
Last Edited on 11-SEP-2018 09:08			
*** 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

It will be obtained from Depth Specific Settings Entry

** General Settings **

Use General Settings	ON
ZHead Cal Area Ratio	2.90
ZMud Cal Area Ratio	4.07

** 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	1625.00	5.50	36.00	1.50	1.50	0.30	1.00
0.00	16851.00	5.50	17.00	2.32	4.04	0.30	1.00

** Constants **

Thickness calculated from	Tool
Radius Offset	-0.25
Mud slowness Offset	0.00 US/F
Mud Chamber Equation	Mud Plate
Z_mud at Calibration	1.50 K/M2
Z_mud Outside	1.70 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

DOWNHOLE EQUIPMENT

C:\LOGS\BONANZA CREEK\STATE ANTELOPE T44-2-14 XRLNB\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 119 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



59.48 ft CCL - Collar Locator

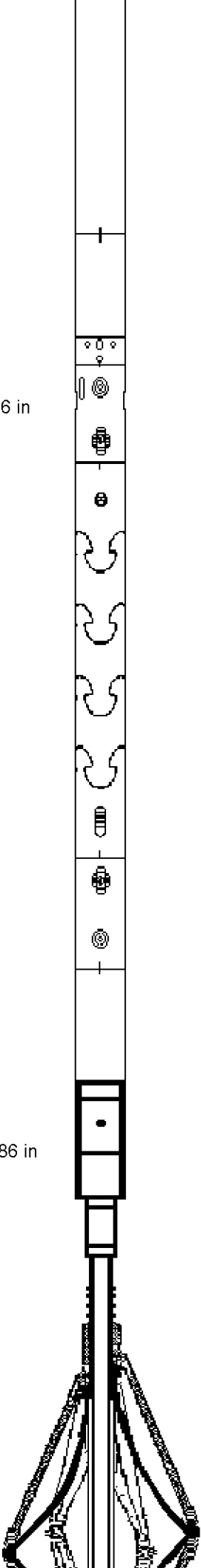
Communication Cartridge 55pin 3-3/8in
WCC-DA 119 LG: 4.60 ft WT: 63.9 lb OD: 3.386 in

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

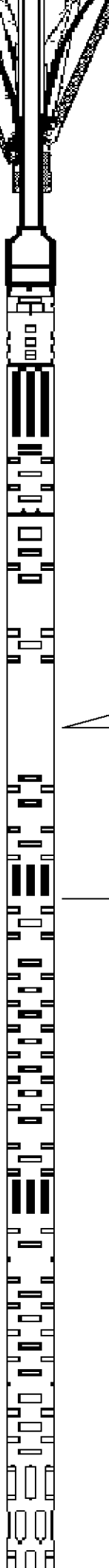
51.39 ft GR - Gamma Ray

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



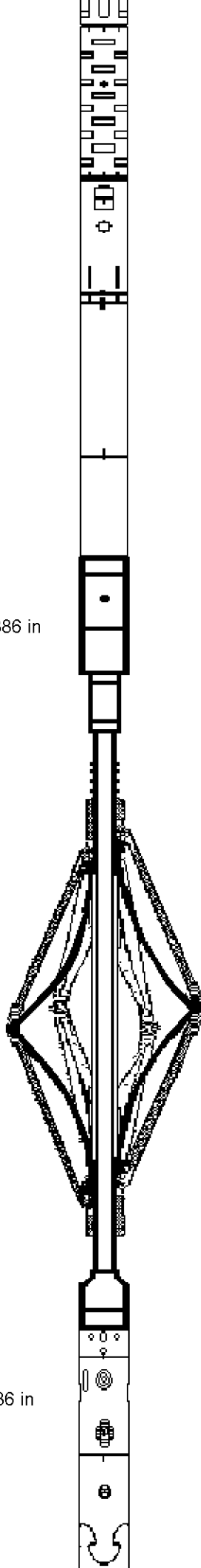
Cement Bond Tool
CBT-AA 115 LG: 10.75 ft WT: 163.1 lb OD: 3.386 in



36.70 ft TM3 - Travel Time 3FT
36.70 ft AM3F - Amplitude 3FT

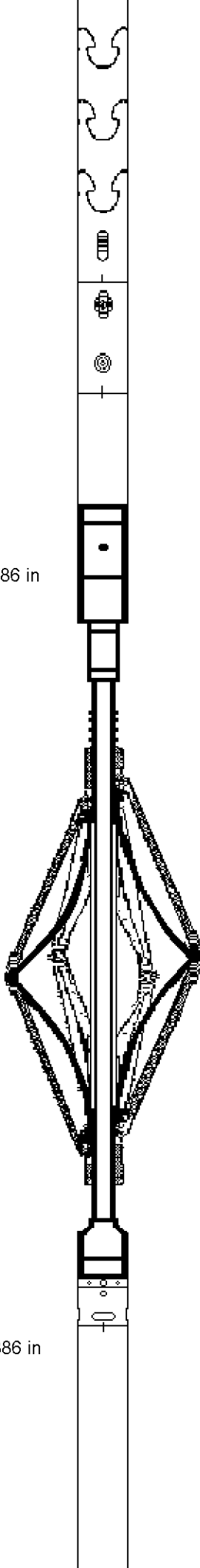
35.70 ft XY5 - XY Signature 5FT

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

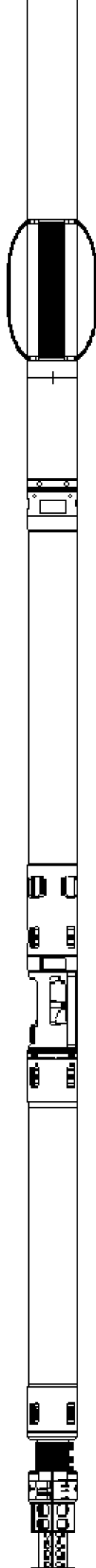
55 pin Roller Centralizer
CEN-XA 215 LG: 4.49 ft WT: 86.0 lb OD: 3.386 in



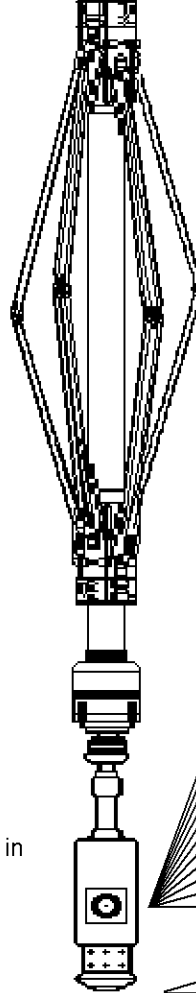
URS Electronics Cartridge
UCC-AA 192 LG: 4.51 ft WT: 79.4 lb OD: 3.386 in

URS Sonde Section

USS-AB 192 LG: 9.65 ft WT: 167.6 lb OD: 3.386 in




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



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

- 0.37 ft DIMN - Min Diameter
- 0.37 ft DIMX - Max Diameter
- 0.37 ft OVLI - ID Ovality
- 0.37 ft ECCE - Eccentering
- 0.37 ft IMAV - Avg Impedance
- 0.37 ft IMMP - Impd Map
- 0.37 ft TKMP - Thickness Map
- 0.37 ft MNBU - Min Burst
- 0.37 ft THMN - Min Thickness
- 0.37 ft THAV - Avg Thickness
- 0.37 ft THMX - Max Thickness
- 0.00 ft TENS - Tension
- Tool Zero (0.00ft from bottom)

Total Length: 62.40 ft Weight: 1045.0 lb All measurements relative to tool zero.

COMPANY		BONANZA CREEK ENERGY			
WELL		STATE ANTELOPE T44-2-14 XRLNB			
FIELD		WATTENBERG			
PROVINCE/COUNTY		WELD			
COUNTRY/STATE		USA / COLORADO			
Elevation Kelly Bushing	4653	feet	Bottom Log Interval	6106.00	feet
Elevation Drill Floor	4653	feet	Depth Driller	16868.00	feet
Elevation Ground Level	4636	feet	Depth Logger	6106.00	feet
		SECUREVIEW			
		ULTRAVIEW / BONDVIEW			
		LOG			