 Weatherford®				CEMENT BOND LOG			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				CAERUS OIL & GAS PUCKETT 34B-24 GRAND VALLEY GARFIELD USA / COLORADO			
SEC 24	TWP 6S	RGE 97W	Other Services PND				
Latitude		Longitude		Permanent Datum GROUND LEVEL, Elevation 8151 feet Log Measured From KB, 30.00 feet above Permanent Datum Drilling Measured From KB			
API Number							
Date		28-MAR-2018					
Run Number		ONE					
Service Order		5133-209228252		Shot	Number	Depth From	Depth To
Type Log		Type Log		Density	of Shots	feet	feet
Depth Driller		9077.00					
Depth Logger		8950.00					
Top Log Interval		0.00					
Bottom Log Interval		8930.00					
Hole Fluid Type		WATER					
Hole Fluid Level							
Restriction ID		3.875		Gun Type			
Max Recorded Temp				Gun Size			
Well Head Pressure		0.00		CASING / TUBING RECORD			
Well Head Equipment		N/A		Size	Weight	Depth From	Depth To
Time Well Ready		ROA		inches	pounds/ft	feet	feet
Time Logger Bottom		1330		9.625	36.00	0.00	2525.00
Unit		14115		4.500	11.60	0.00	9052.00
Equipment Name		WSS-E					
Base		CASPER					
Recorded By		P. MAZUR					
Witnessed By		R. TOMPKINS					

BOREHOLE RECORD							Last Edited: 25-MAR-2018 23:26
Bit Size inches		Depth From feet			Depth To feet		
14.750		0.00			2550.00		
8.750		2550.00			9077.00		
CASING / TUBING RECORD							
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	J-55		9.625	0.00	2525.00	36.00	
PRODUCTION	P-110		4.500	0.00	9052.00	11.60	

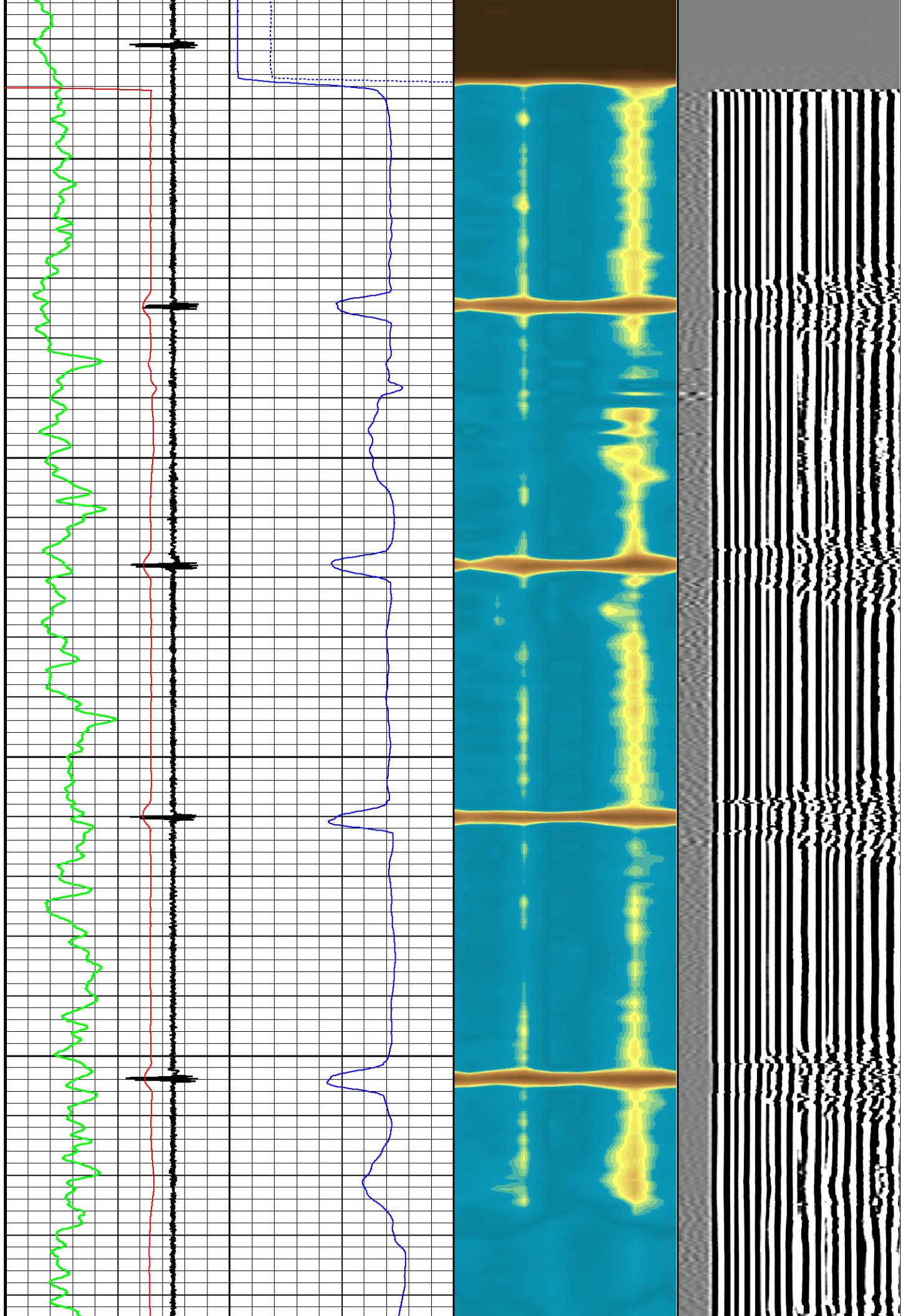
REMARKS
SOFTWARE VERSION 18.01.5248 - COMMERCIAL VERSION
ALL DEPTH CONTROL PROCEDURES FOR SUBSEQUENT RUN IN HOLE WERE FOLLOWED. LOG WAS RUN FROM 30' K.B.
SHORT JOINT LOCATED AT 6804' - 6825.5'
SURFACE SYSTEM USED: WCM-D 160
TOOLS RUN: CCPC, PNEE, PDTS, PGNS WERE RAN IN COMBINATION
PREDICTED 3' AMPLITUDE FOR 4.5" WITH 16.6 LB/FT CASING: 81 mv
FREE PIPE CALIBRATION DONE AT 220 FT
UNKNOWNEN CEMENT CLASS DUE MISSING DATA FROM CLIENT

100

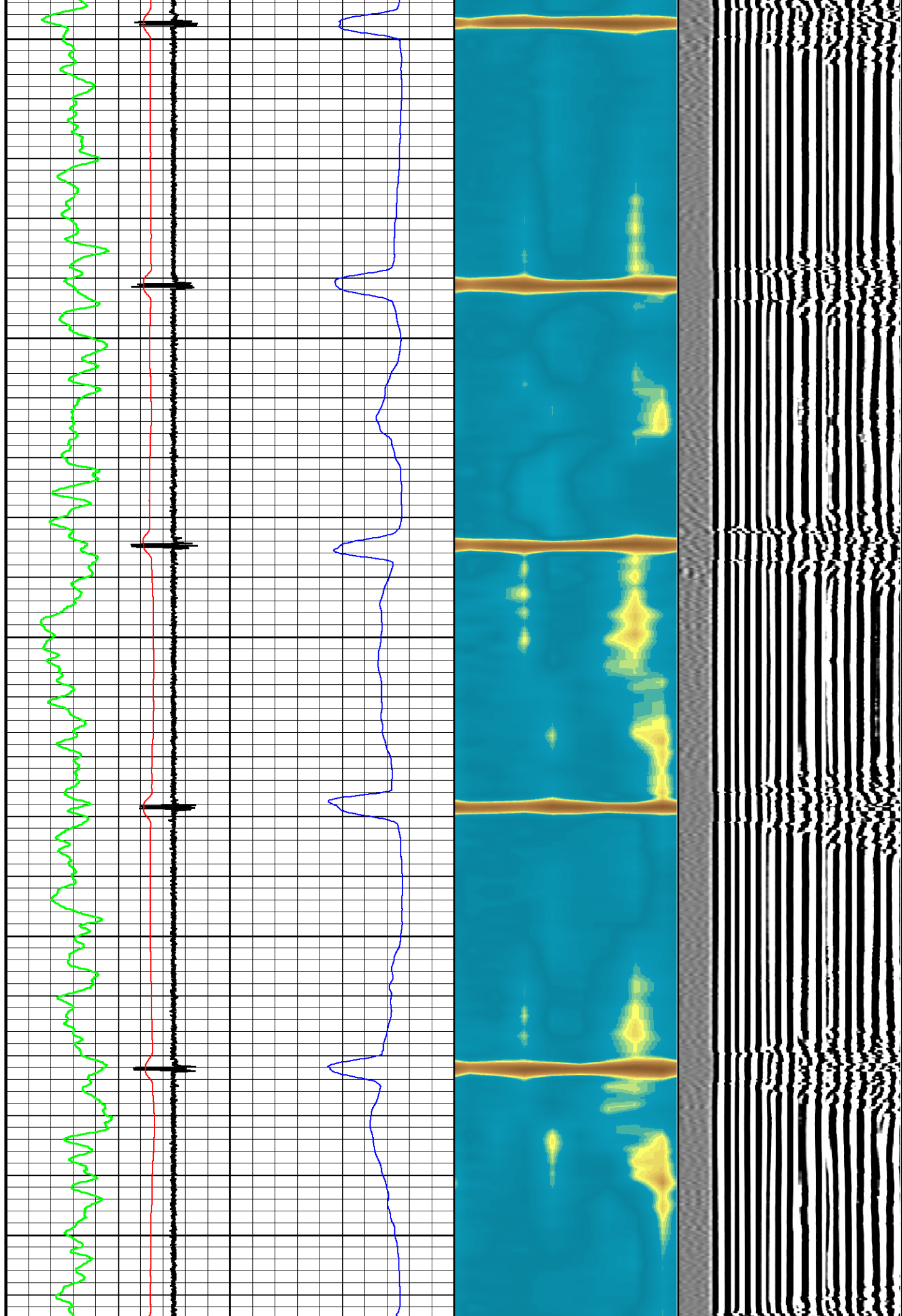
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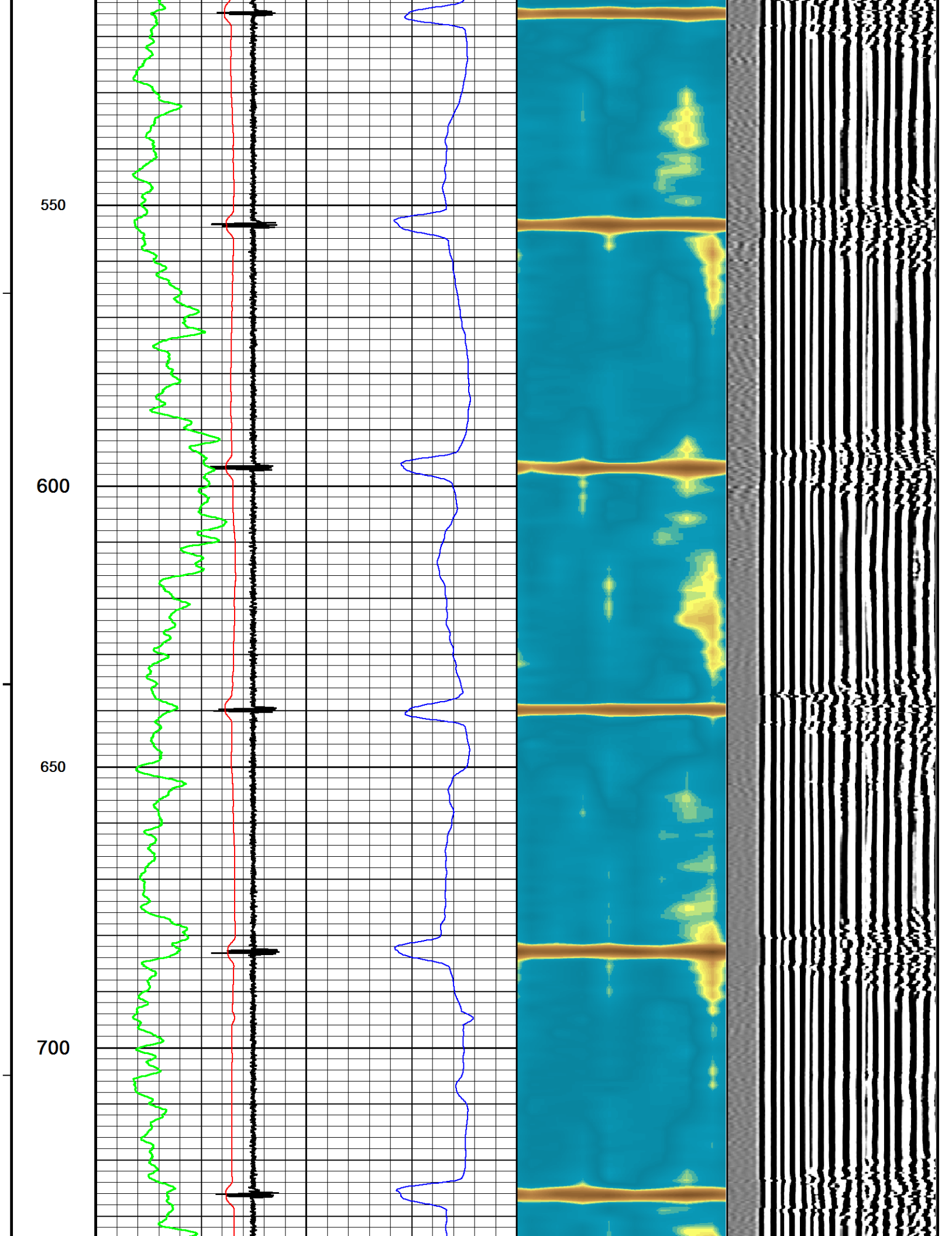
200

250



300
350
400
450
500





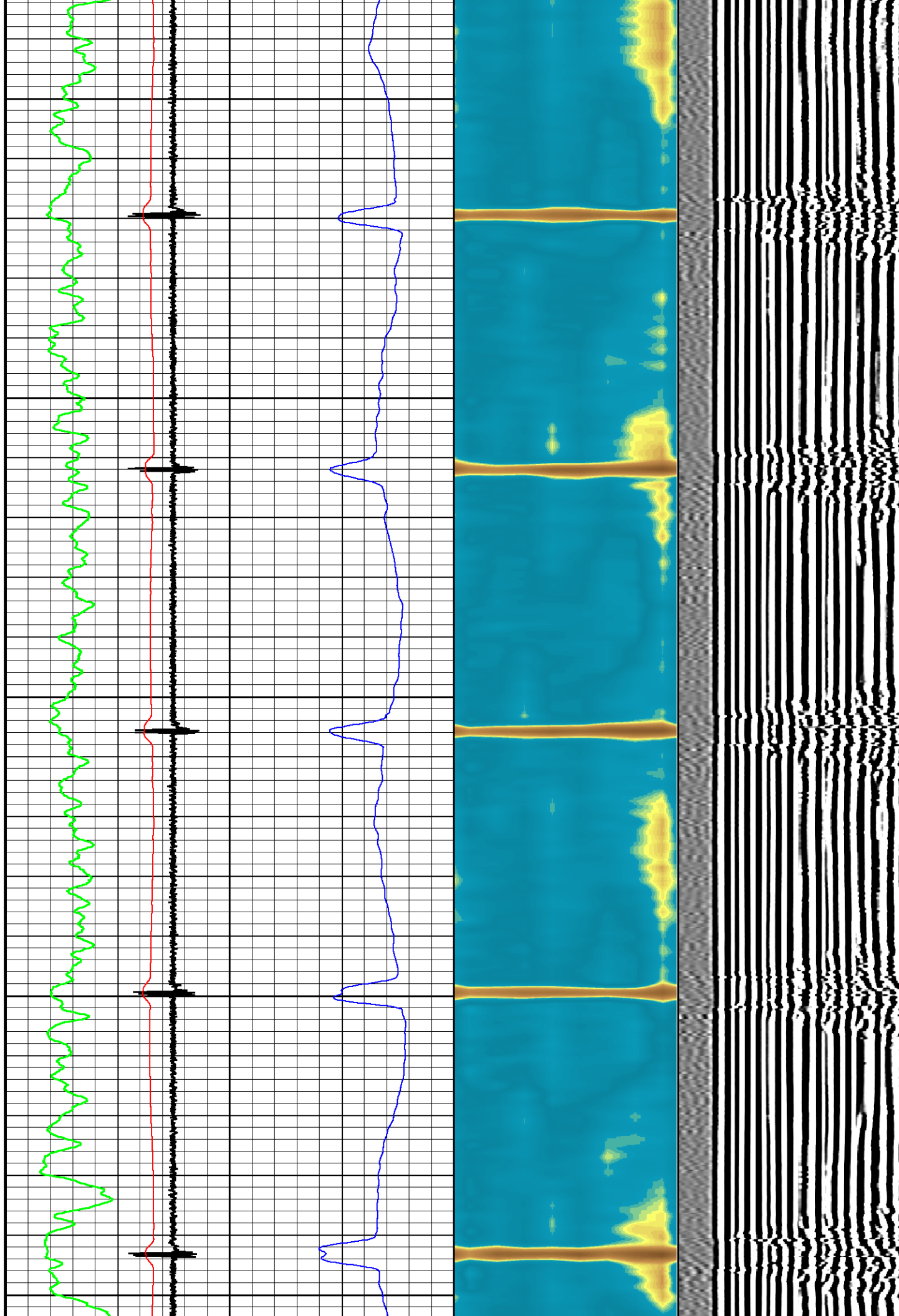
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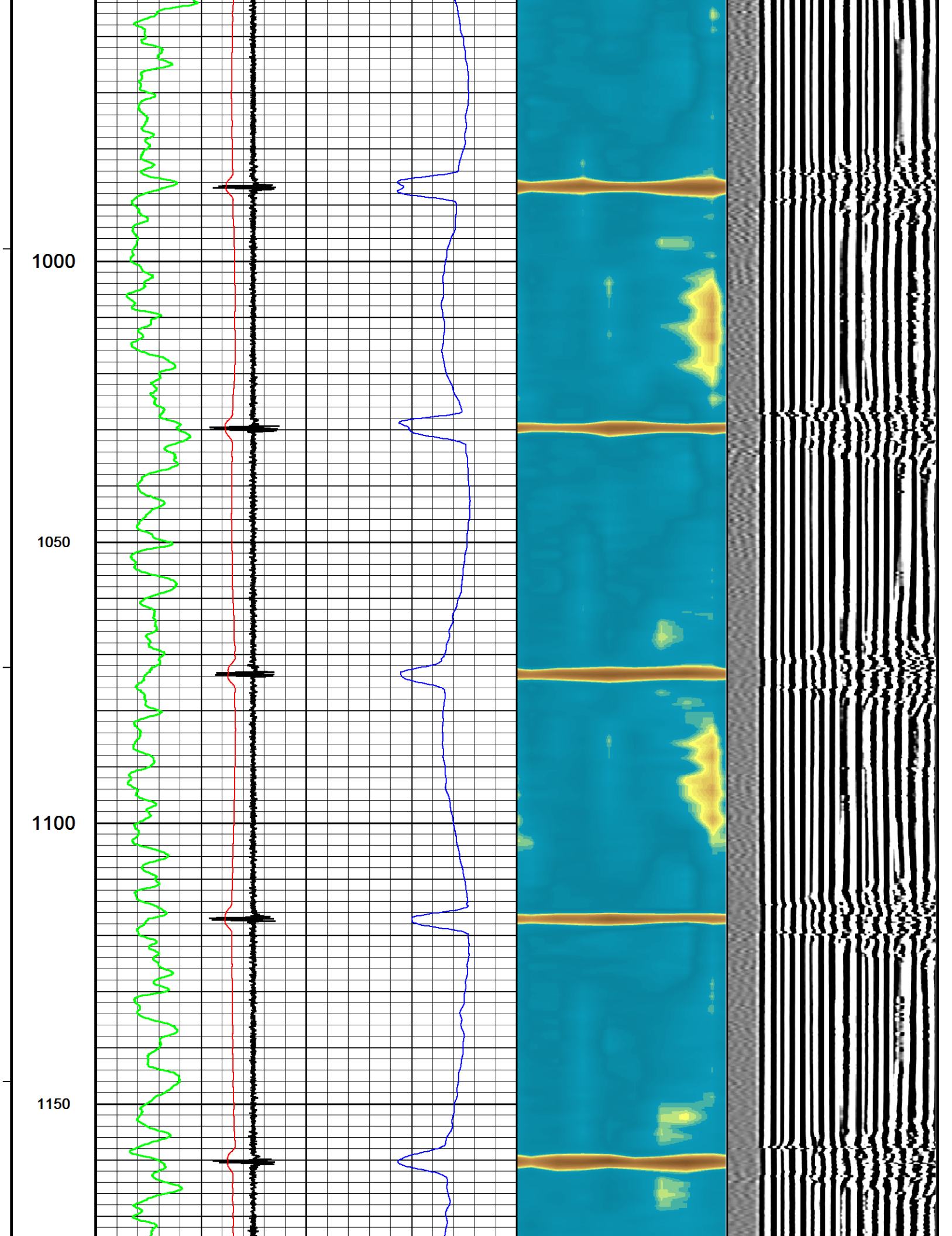
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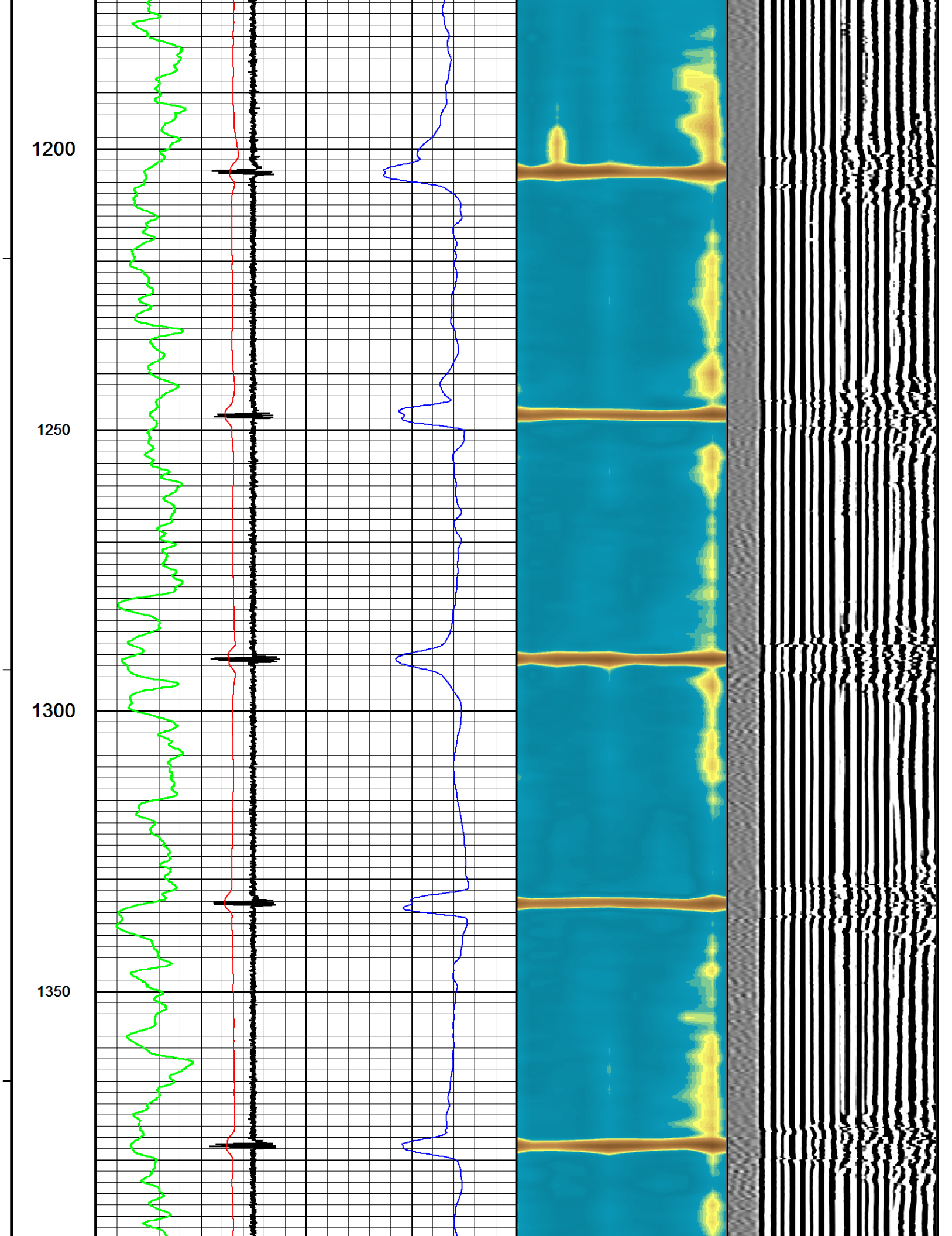
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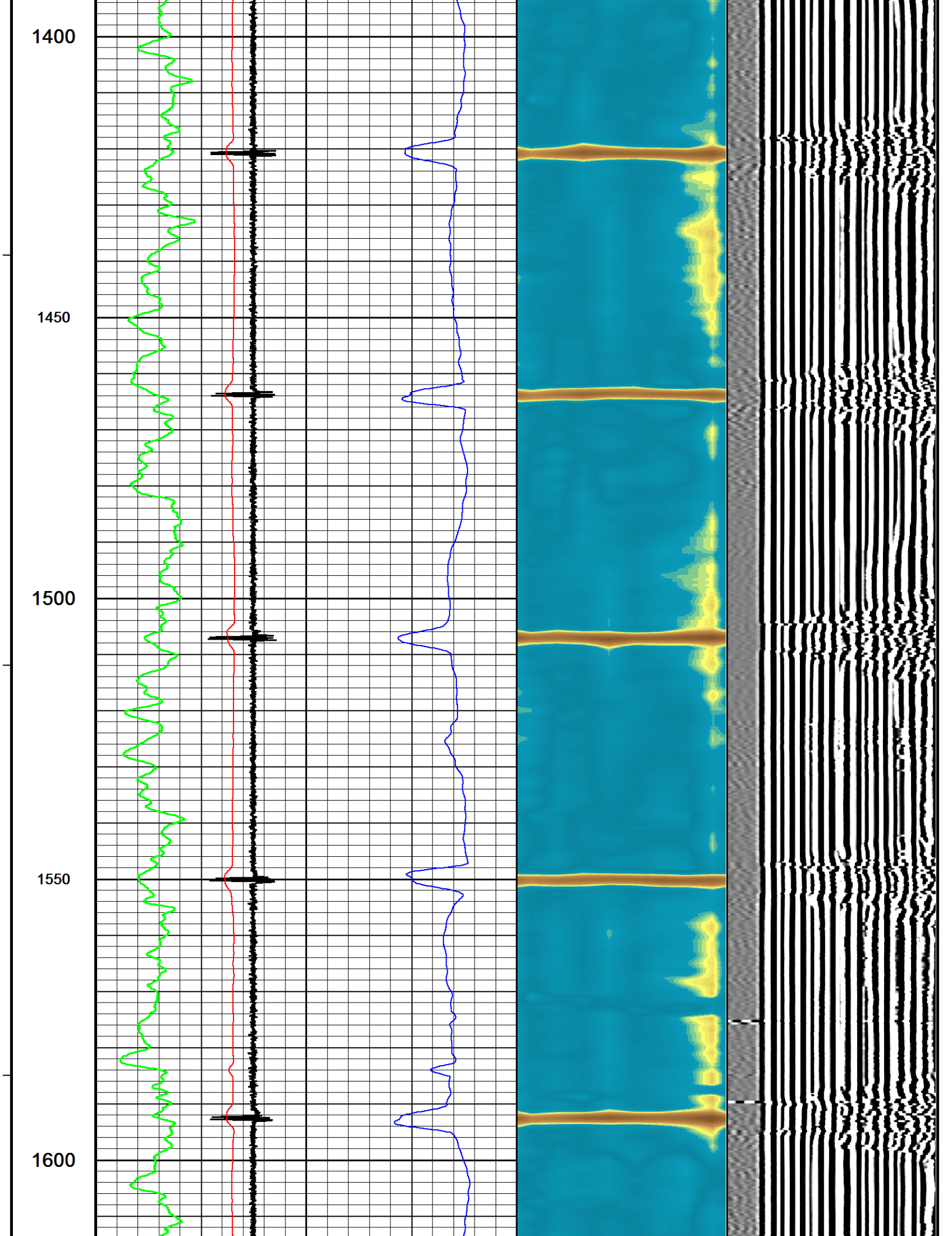
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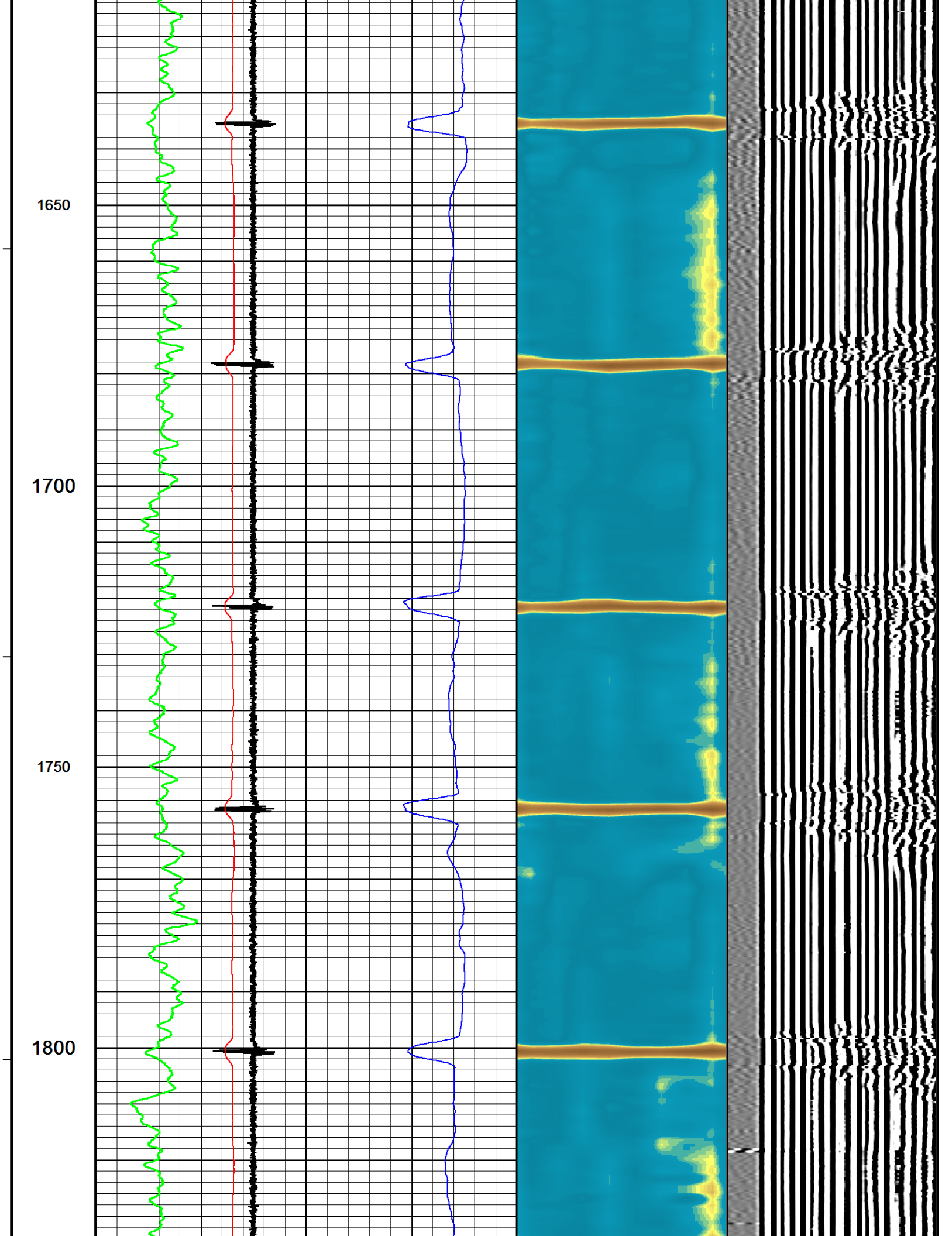
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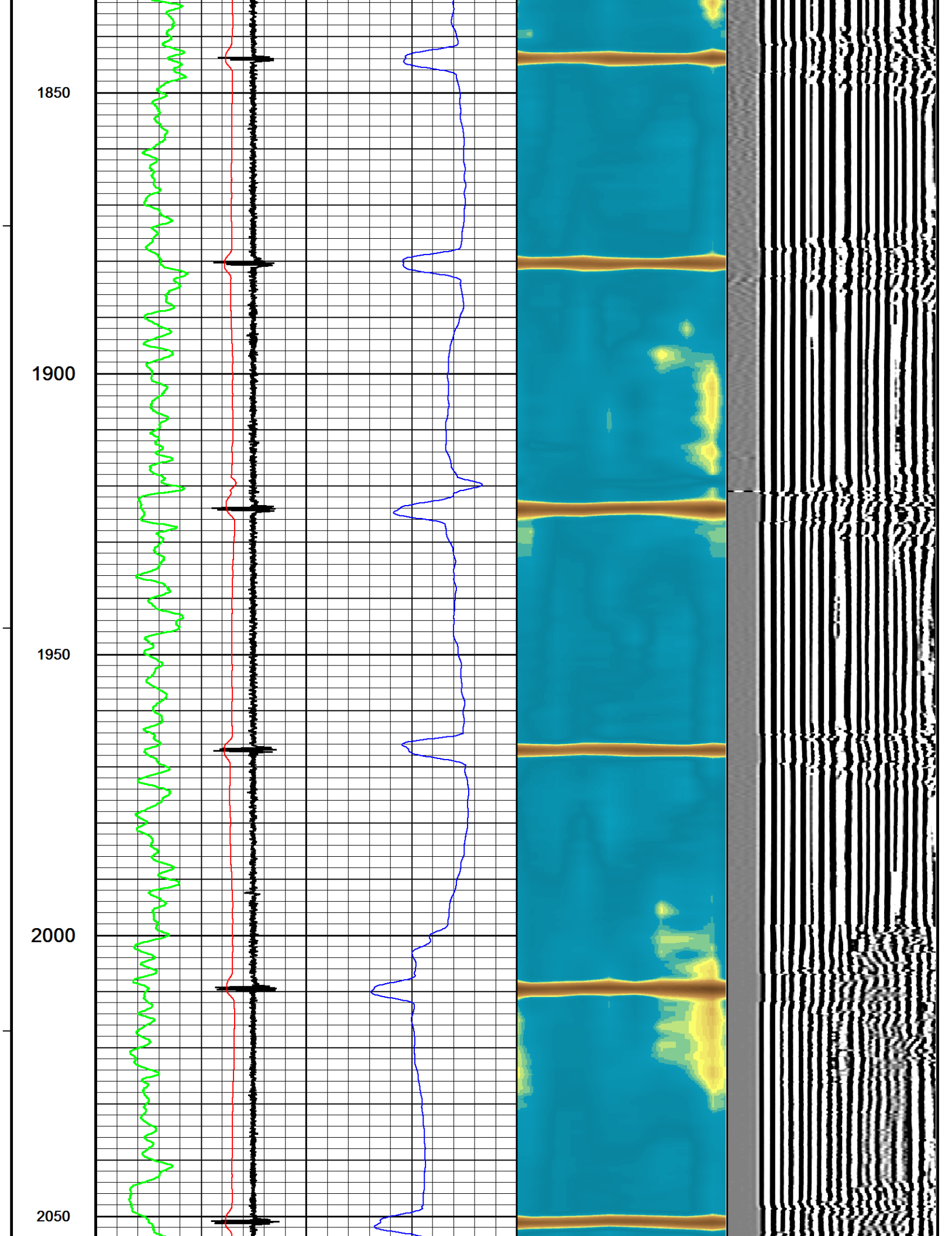


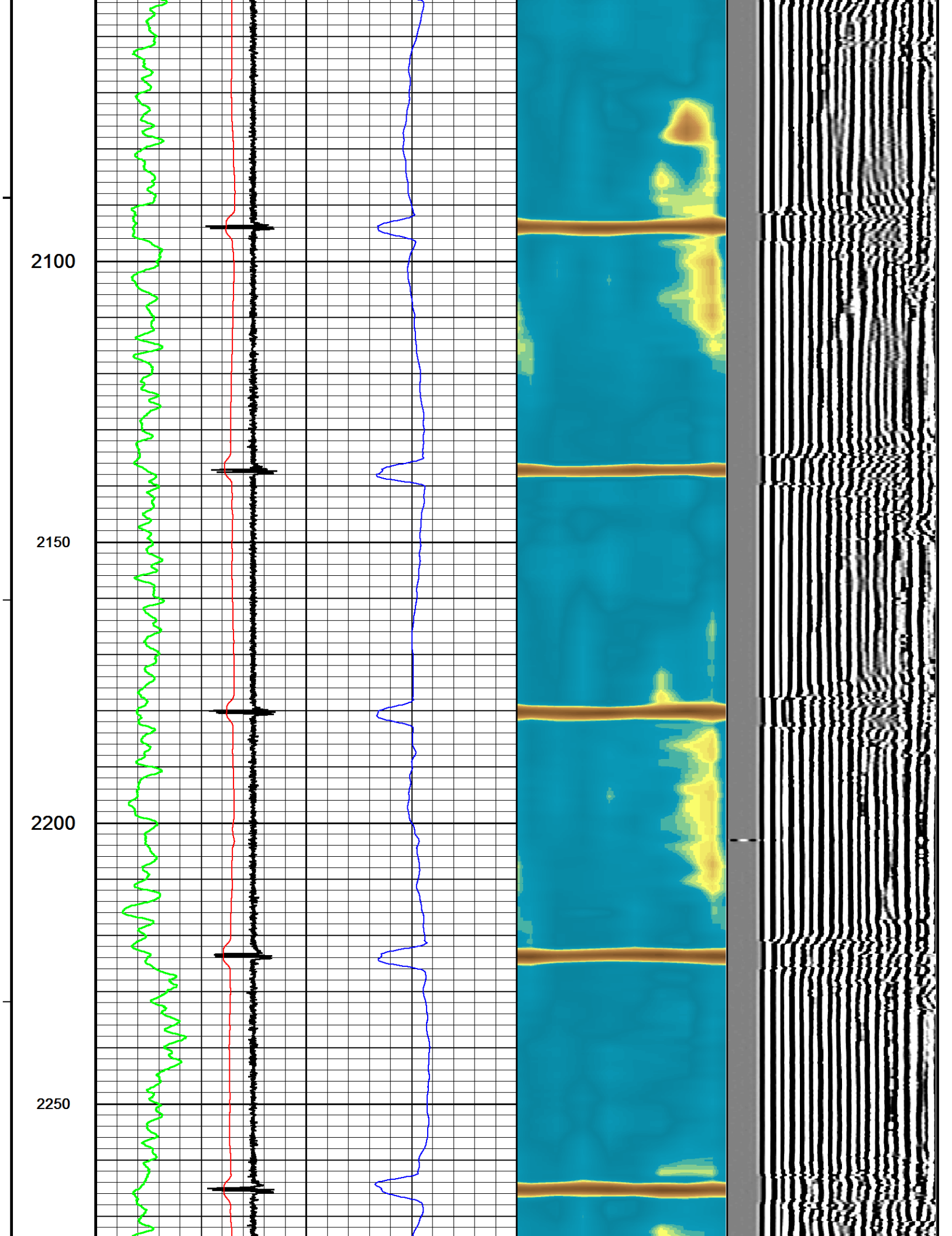


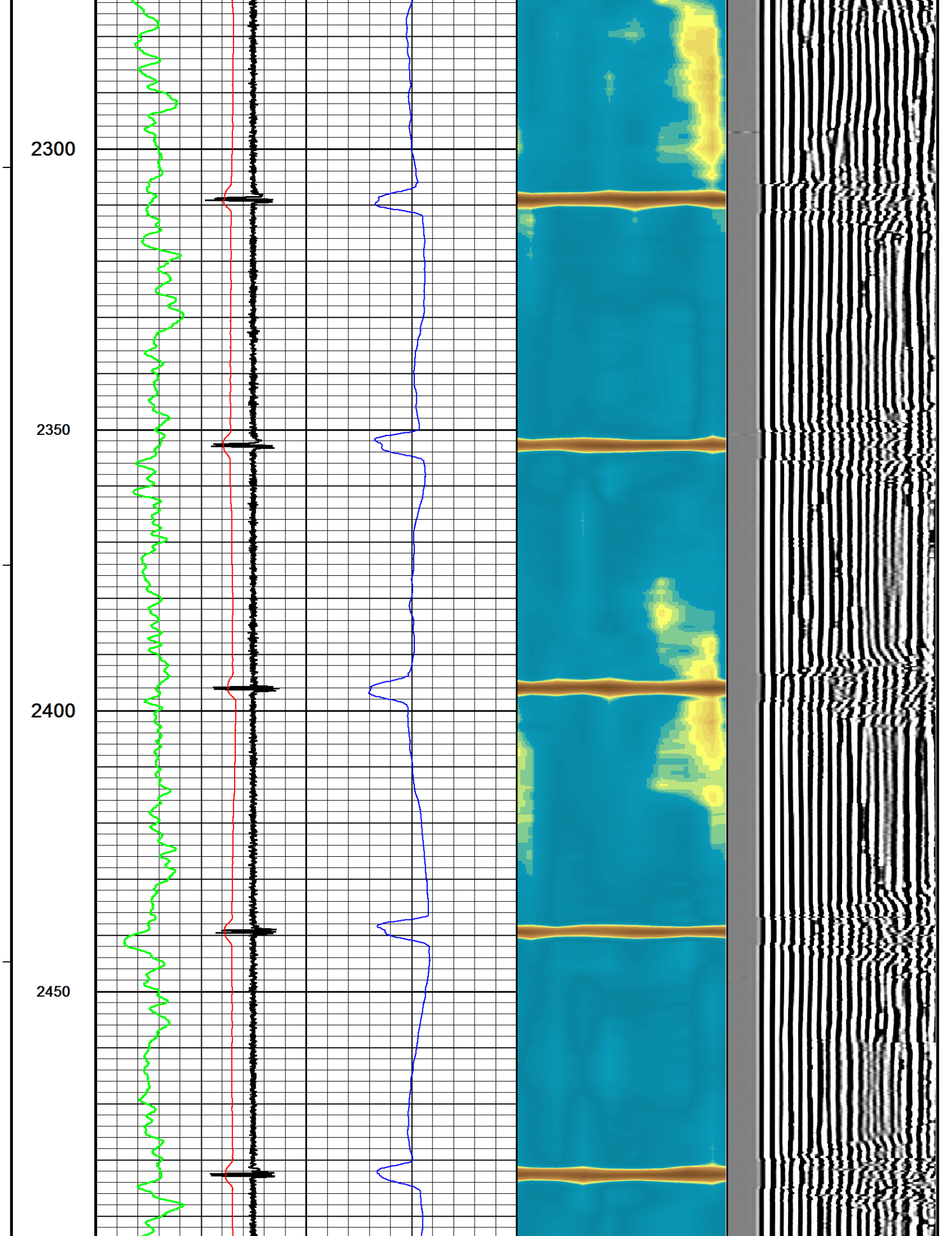












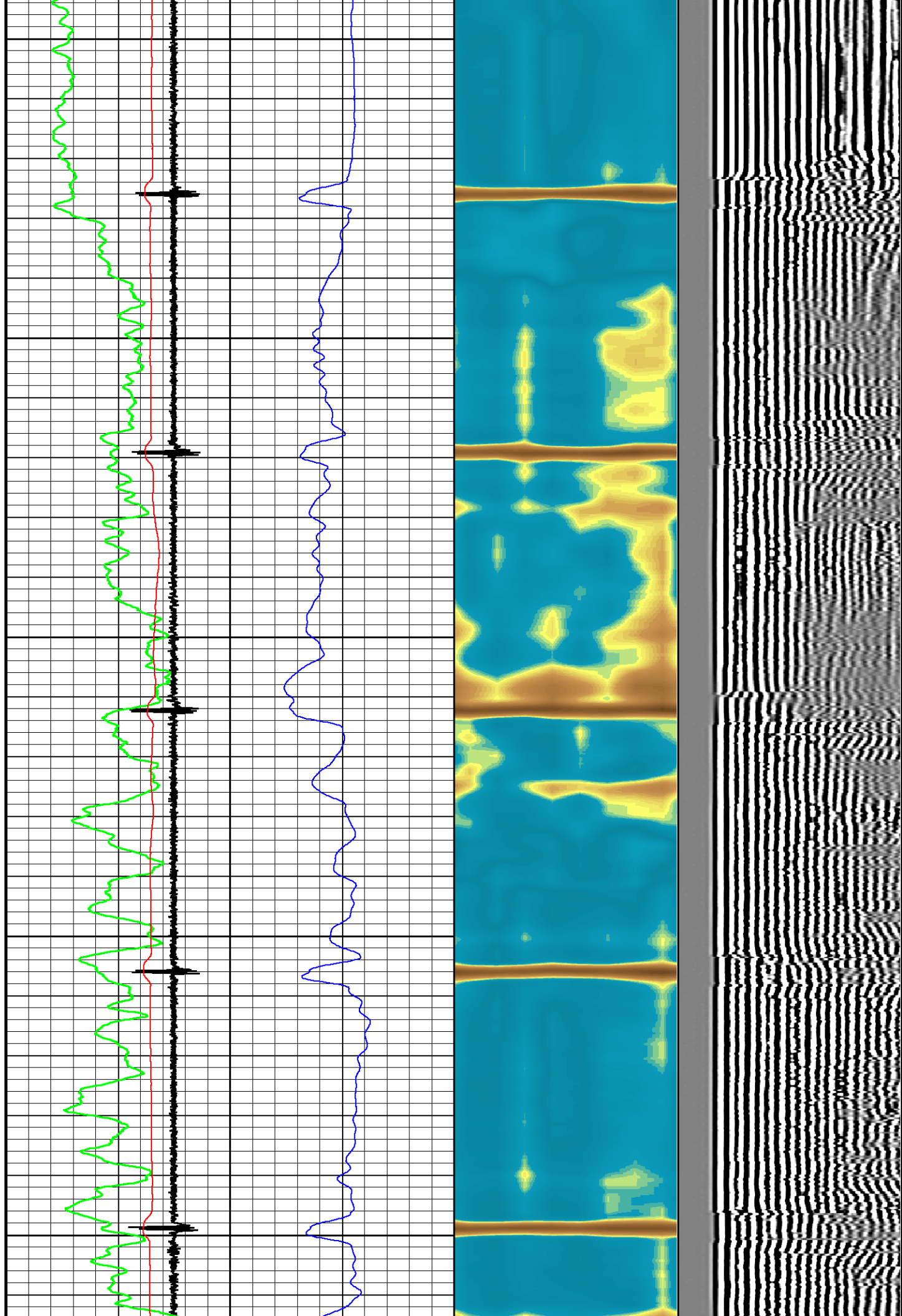
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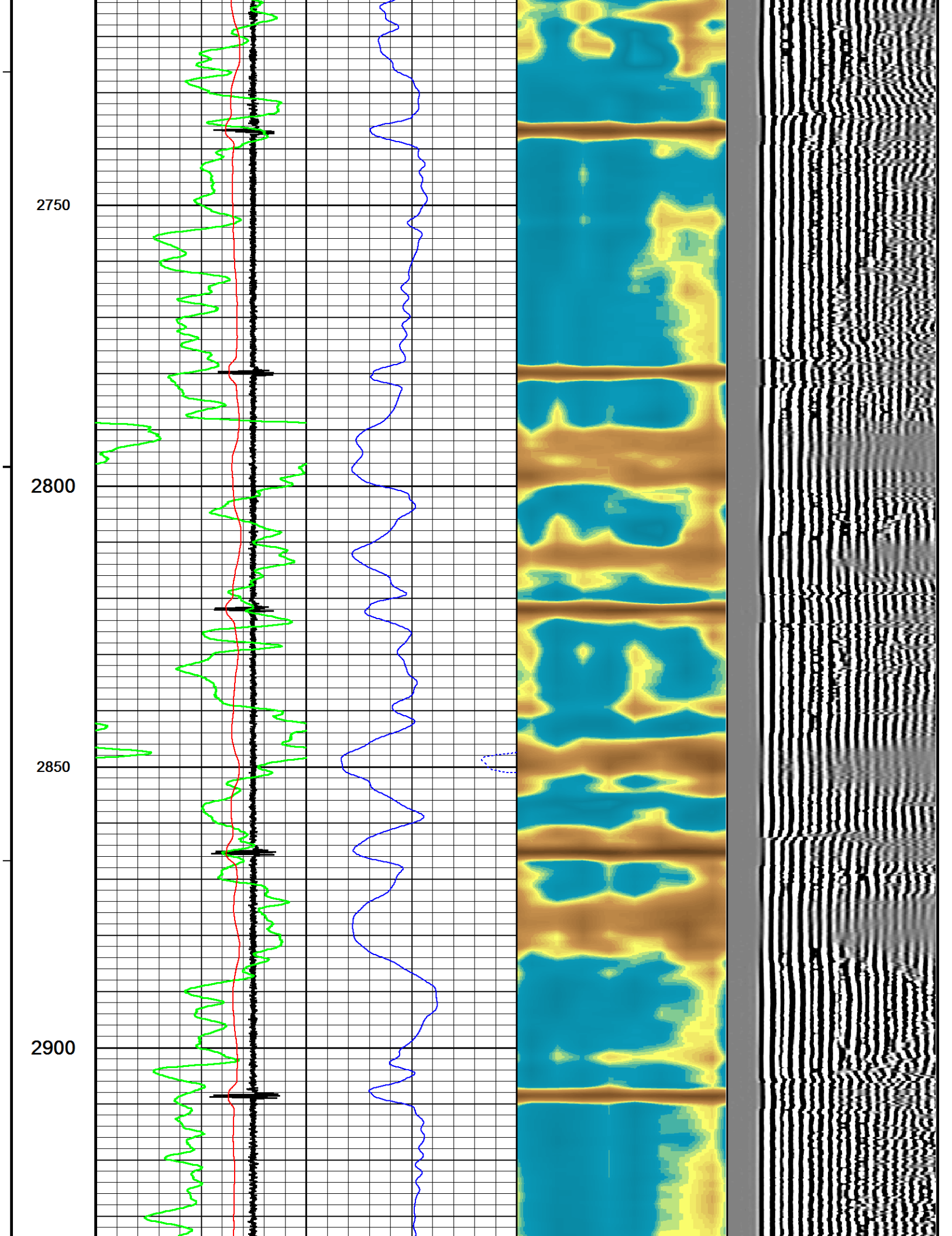
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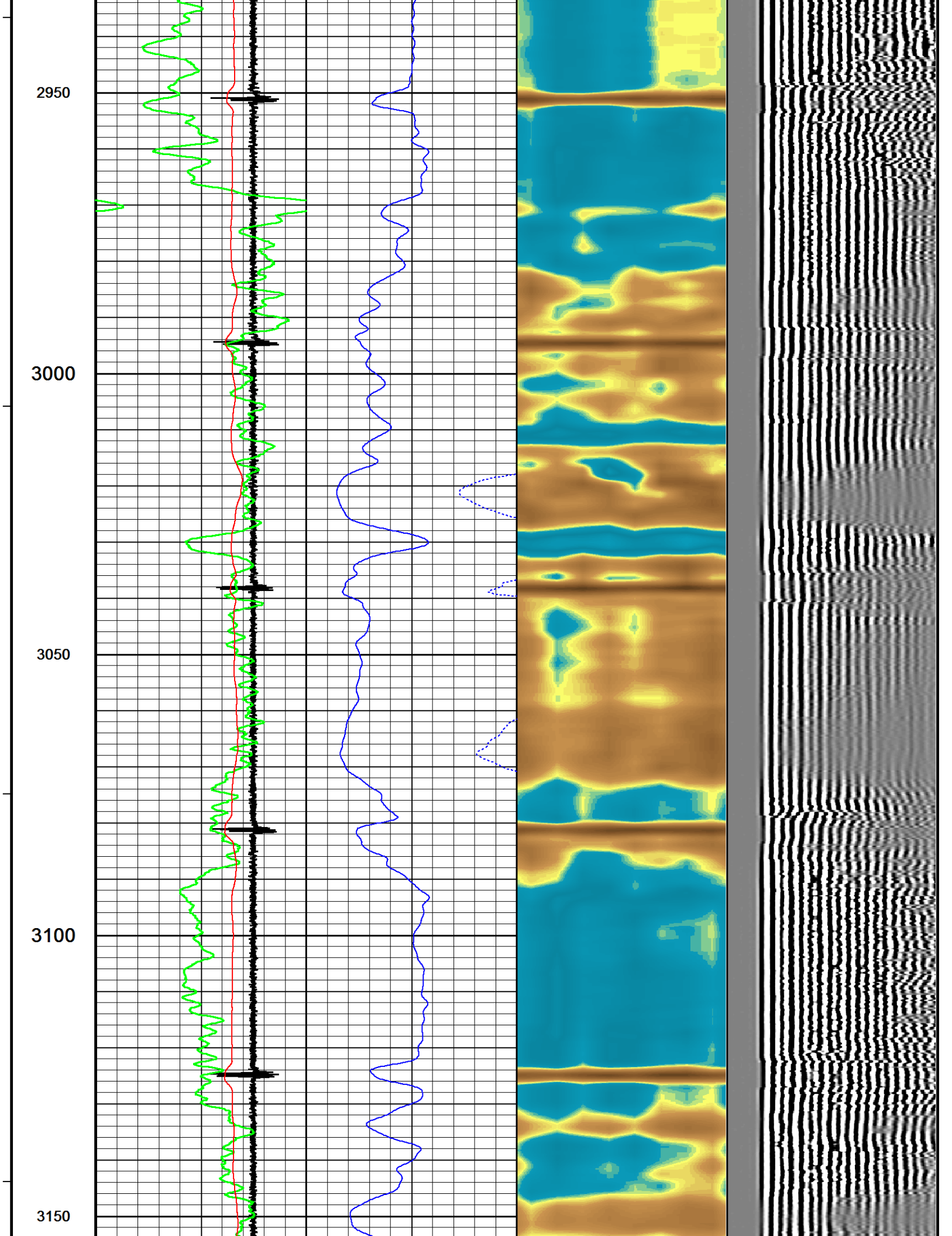
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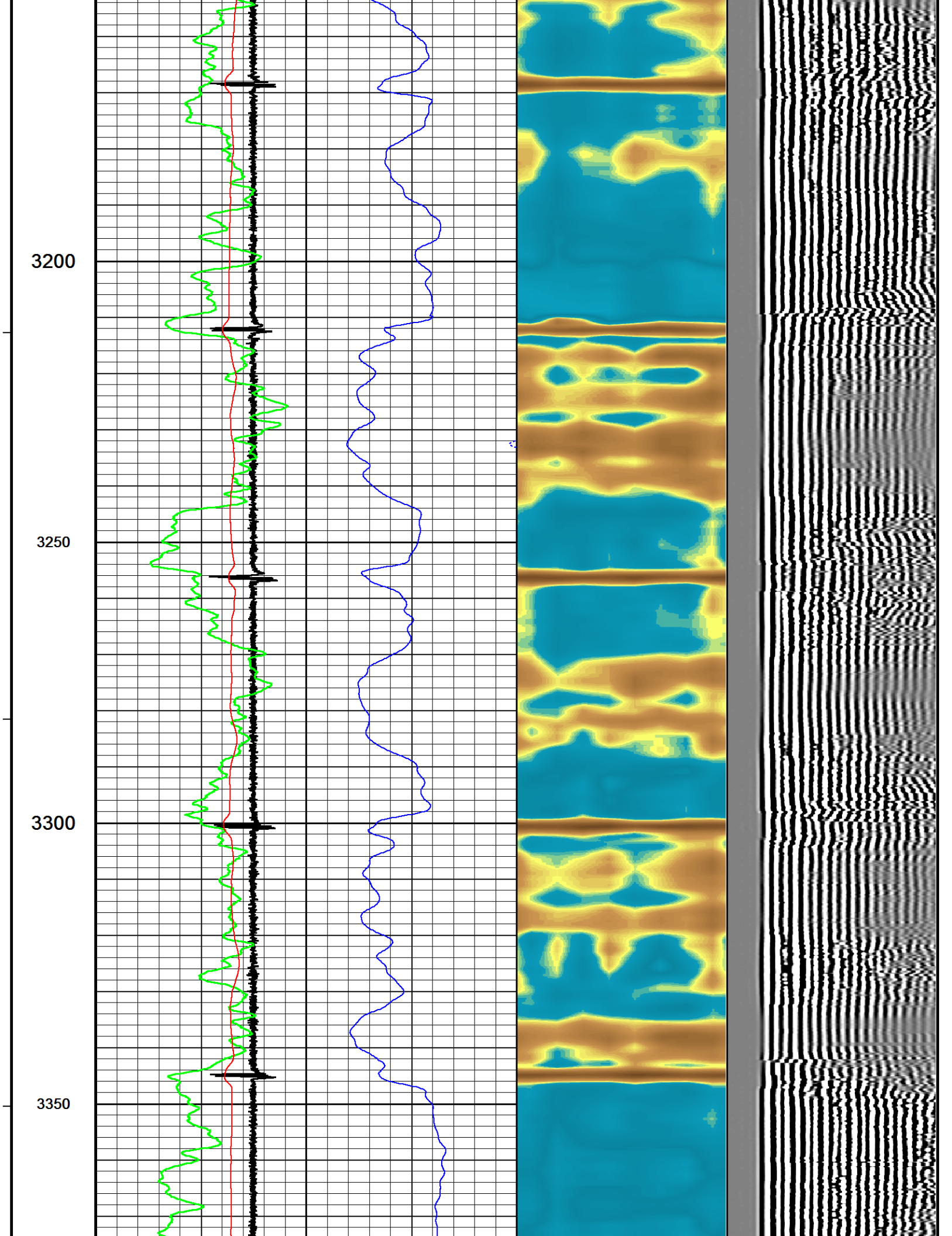
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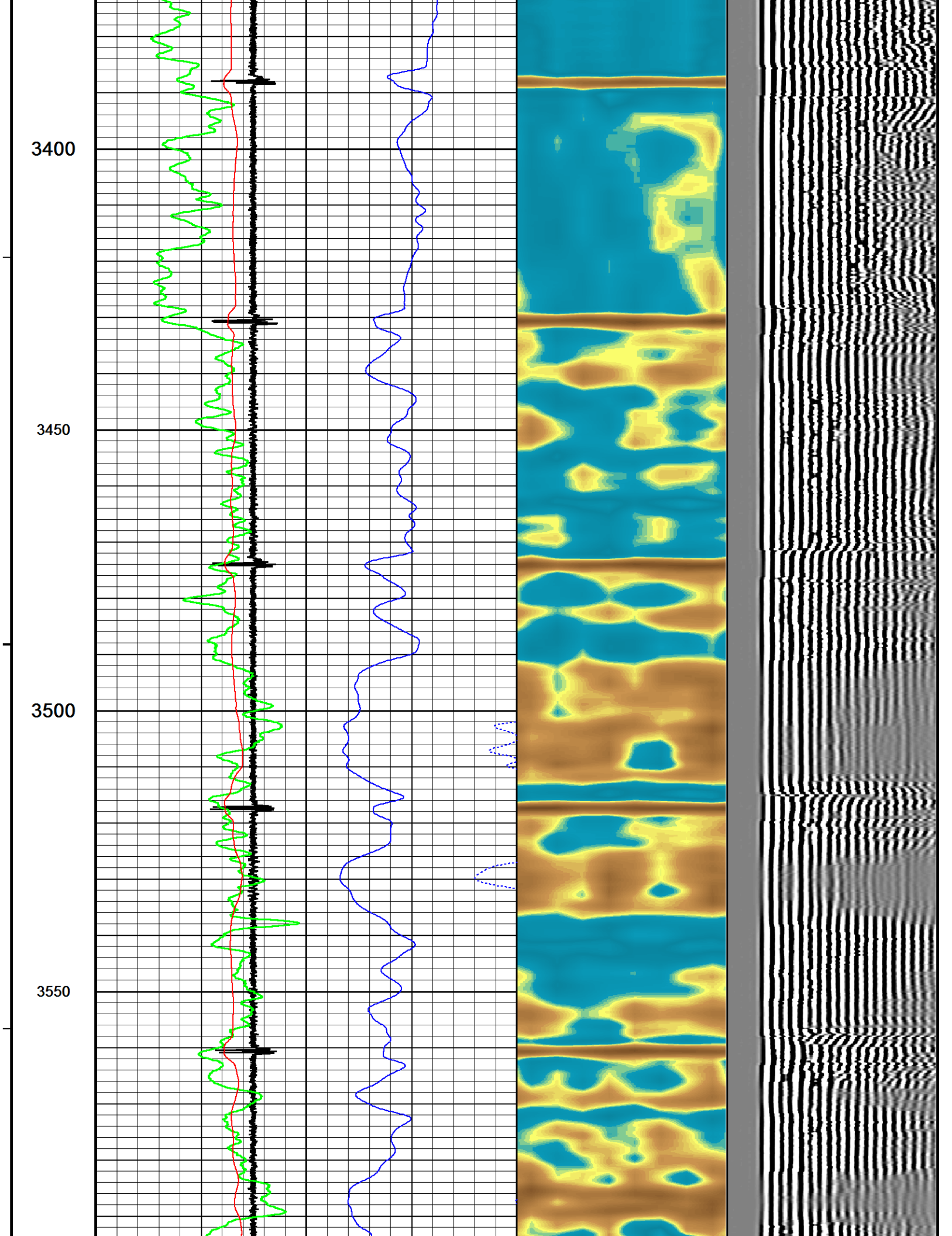
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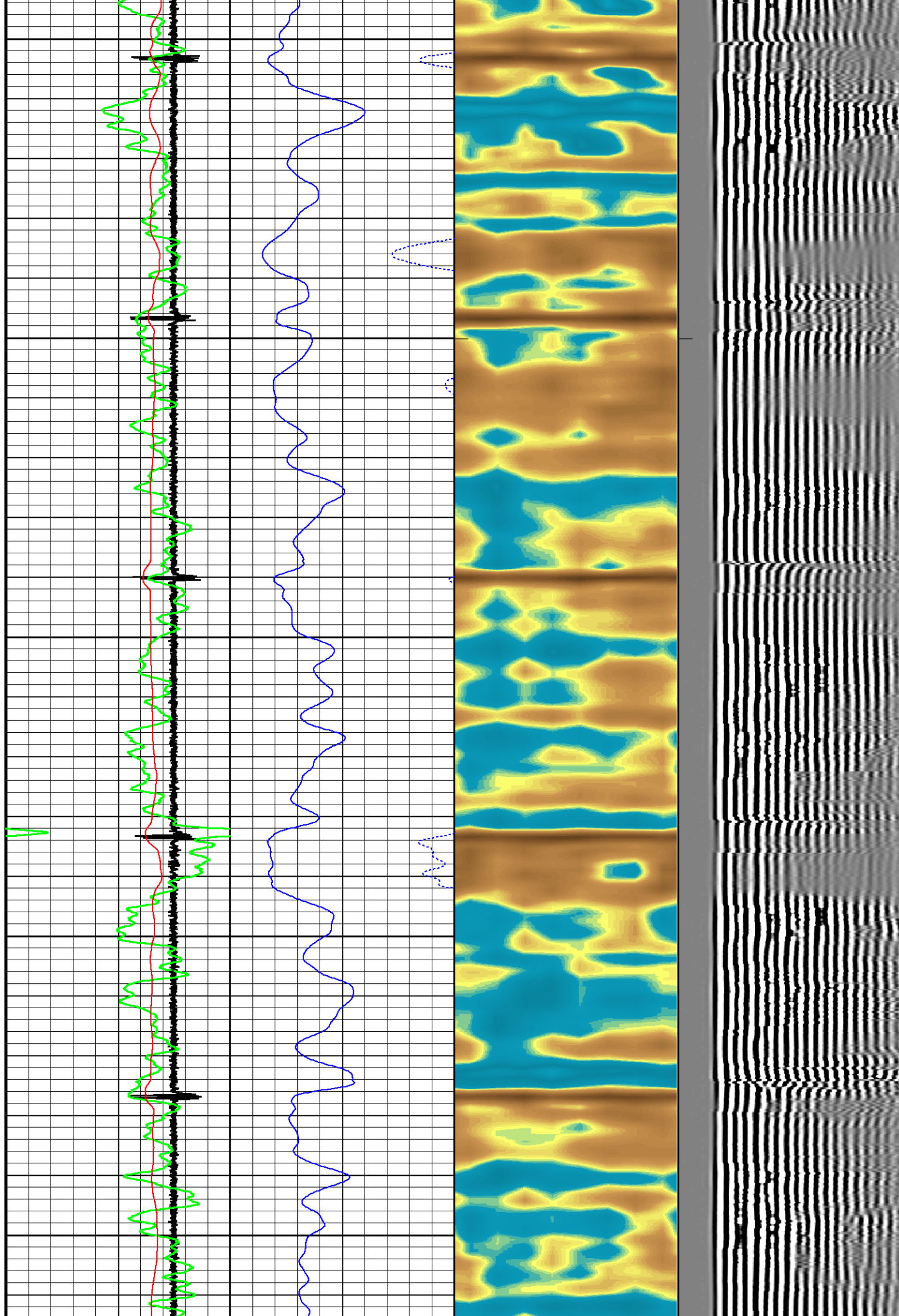
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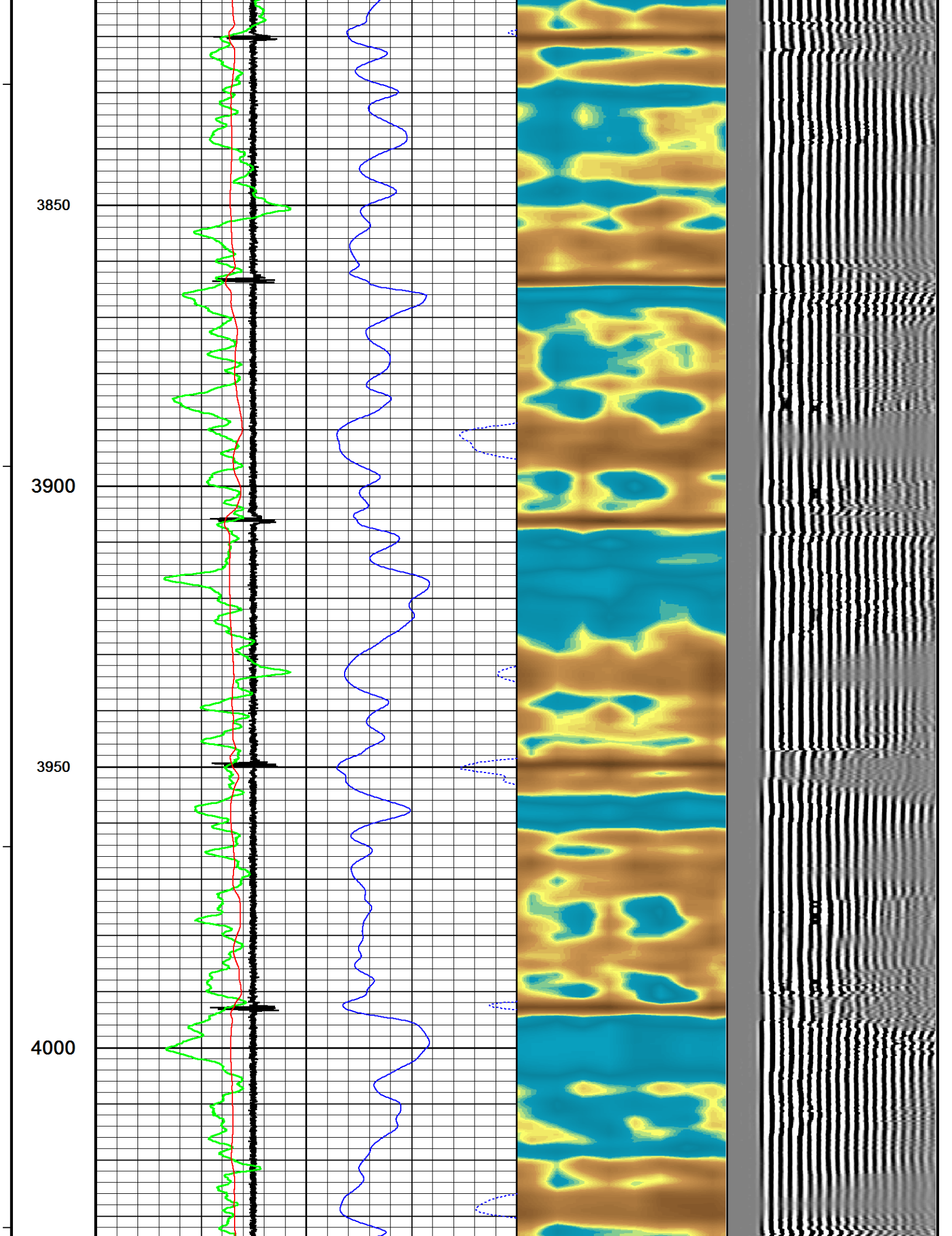
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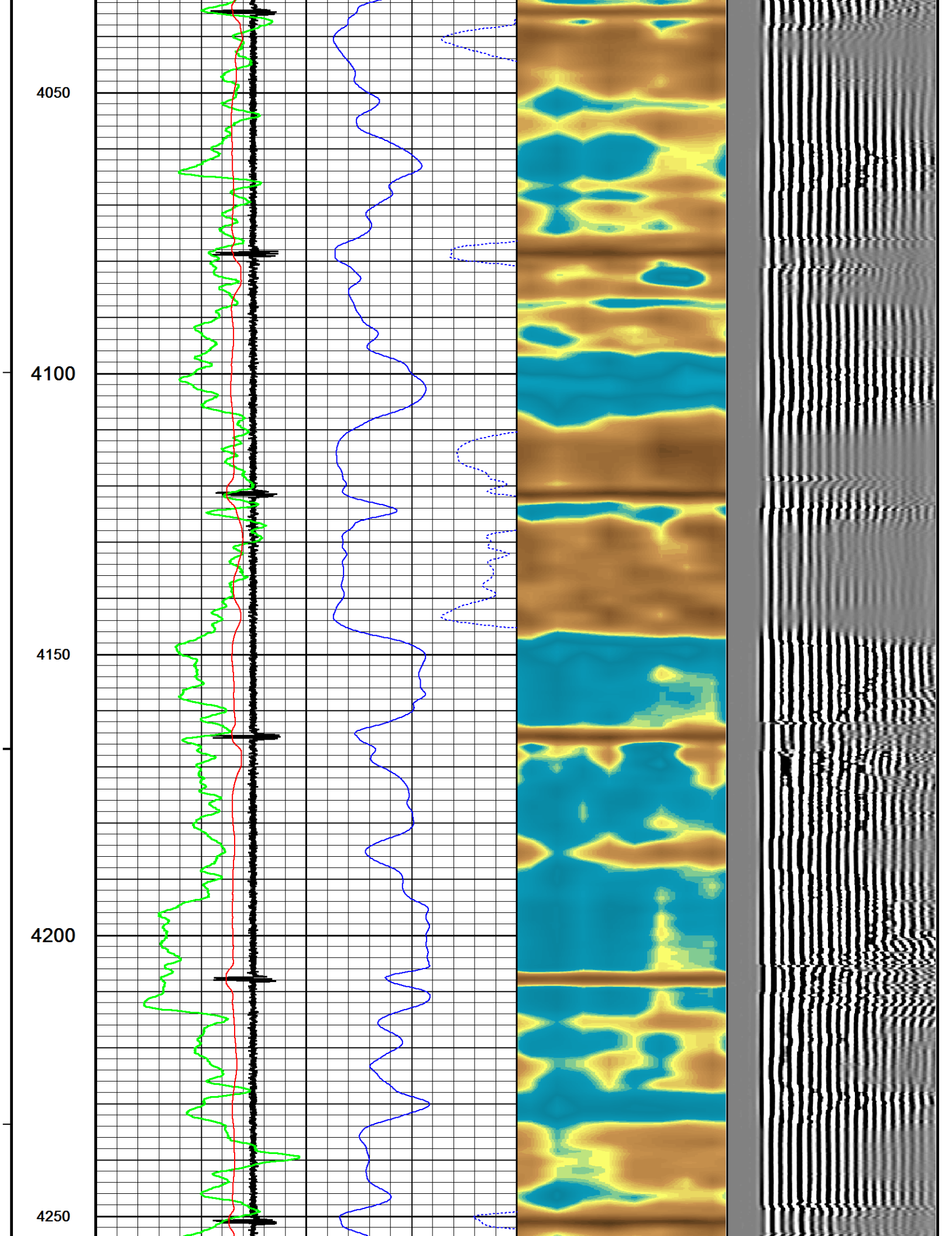
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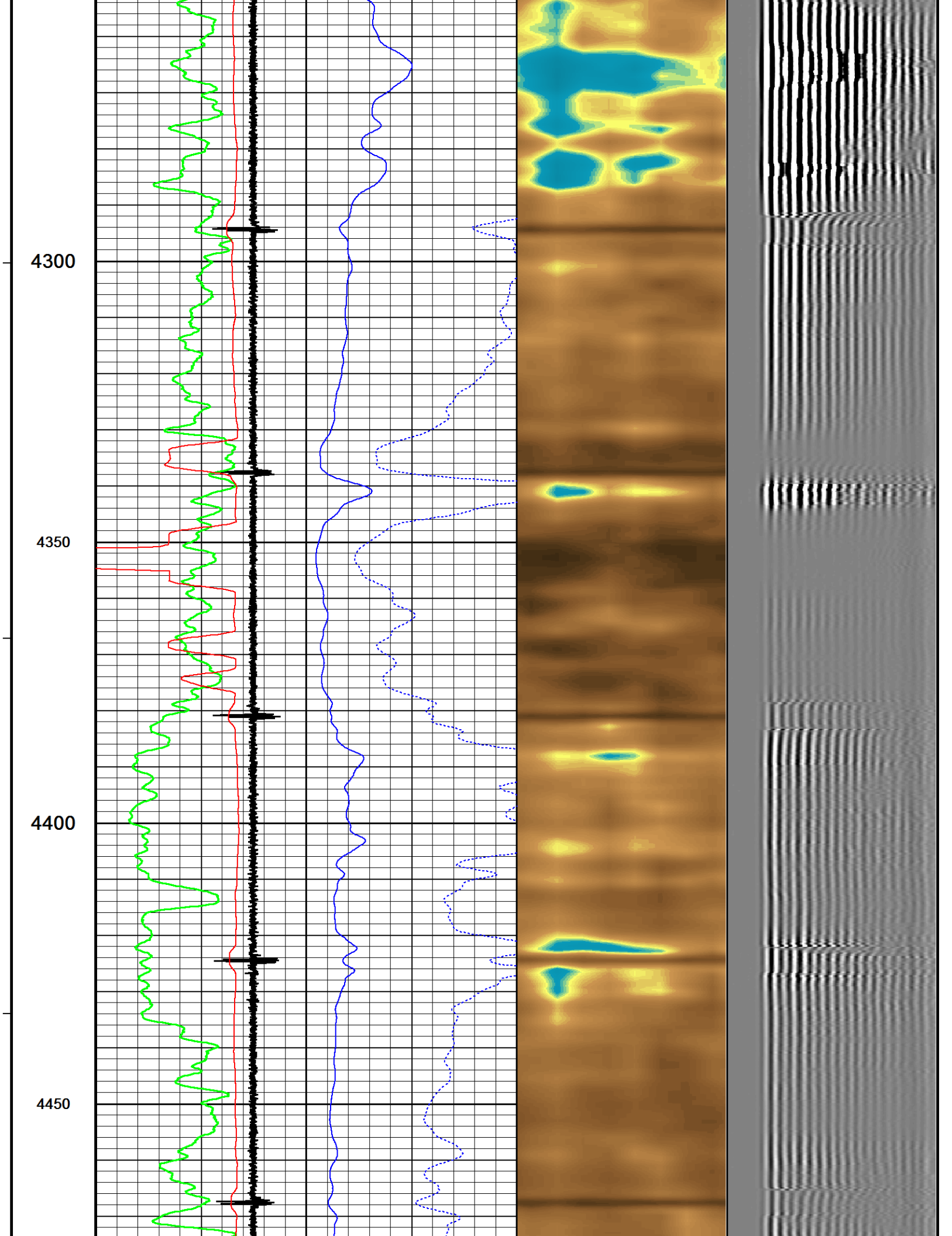
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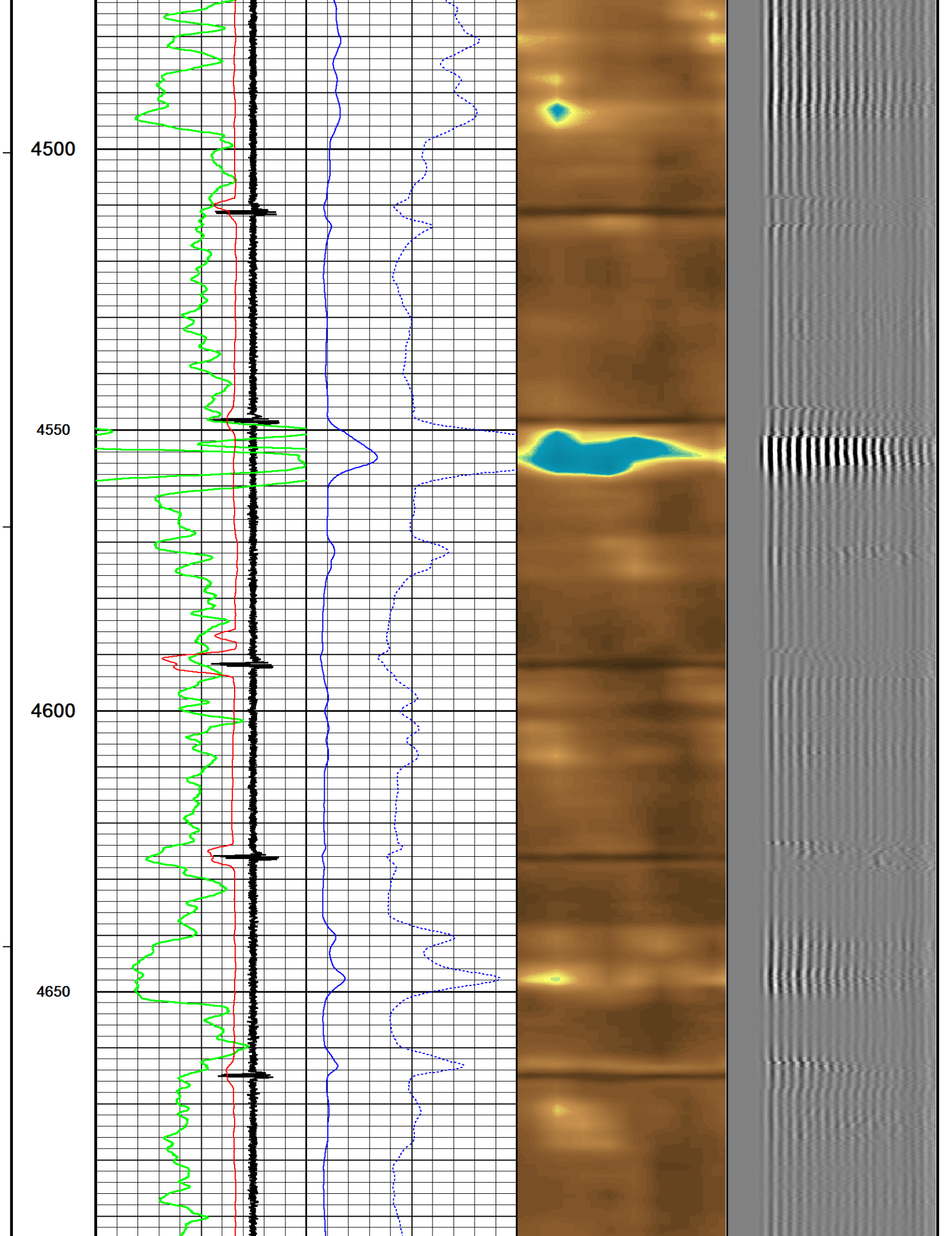
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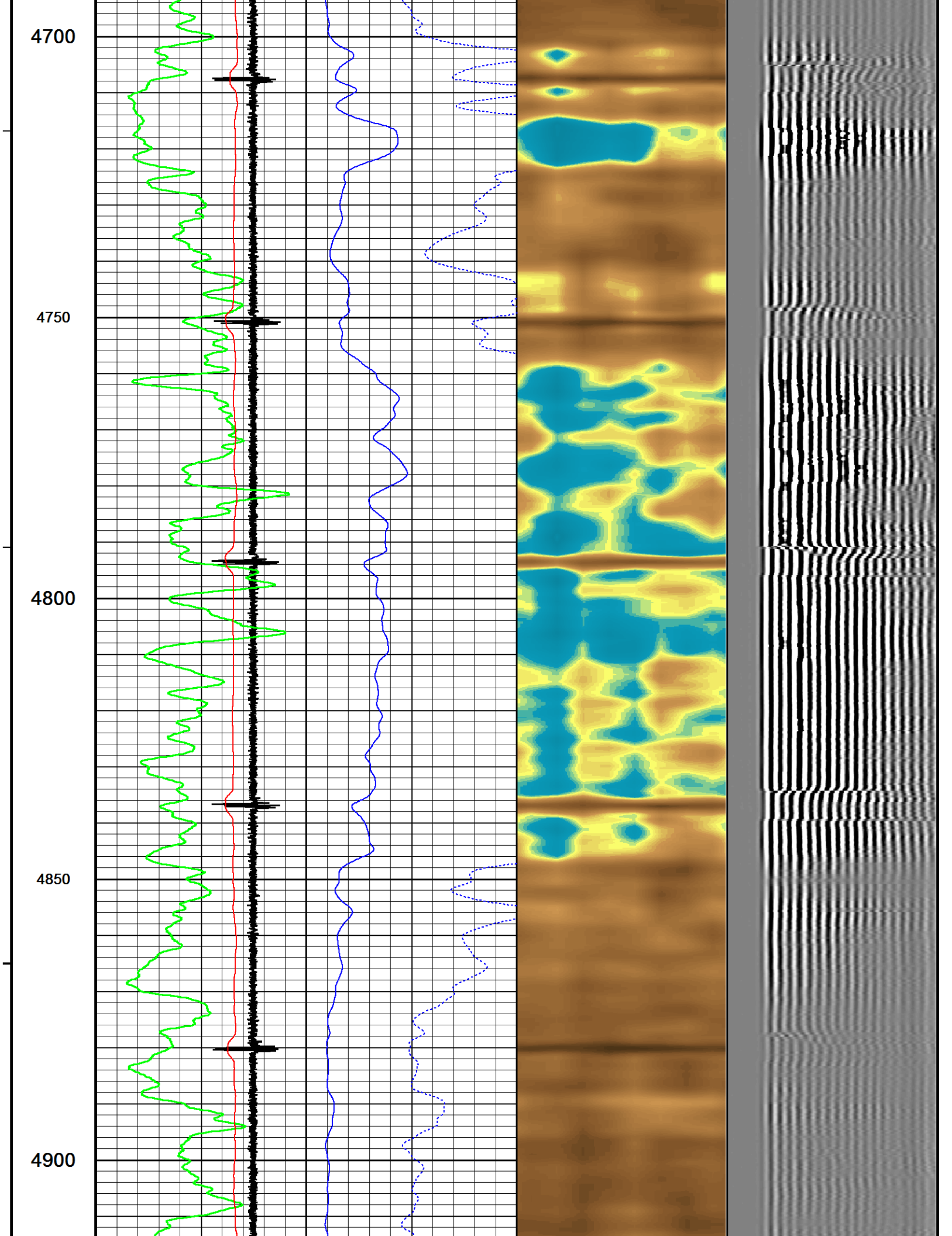


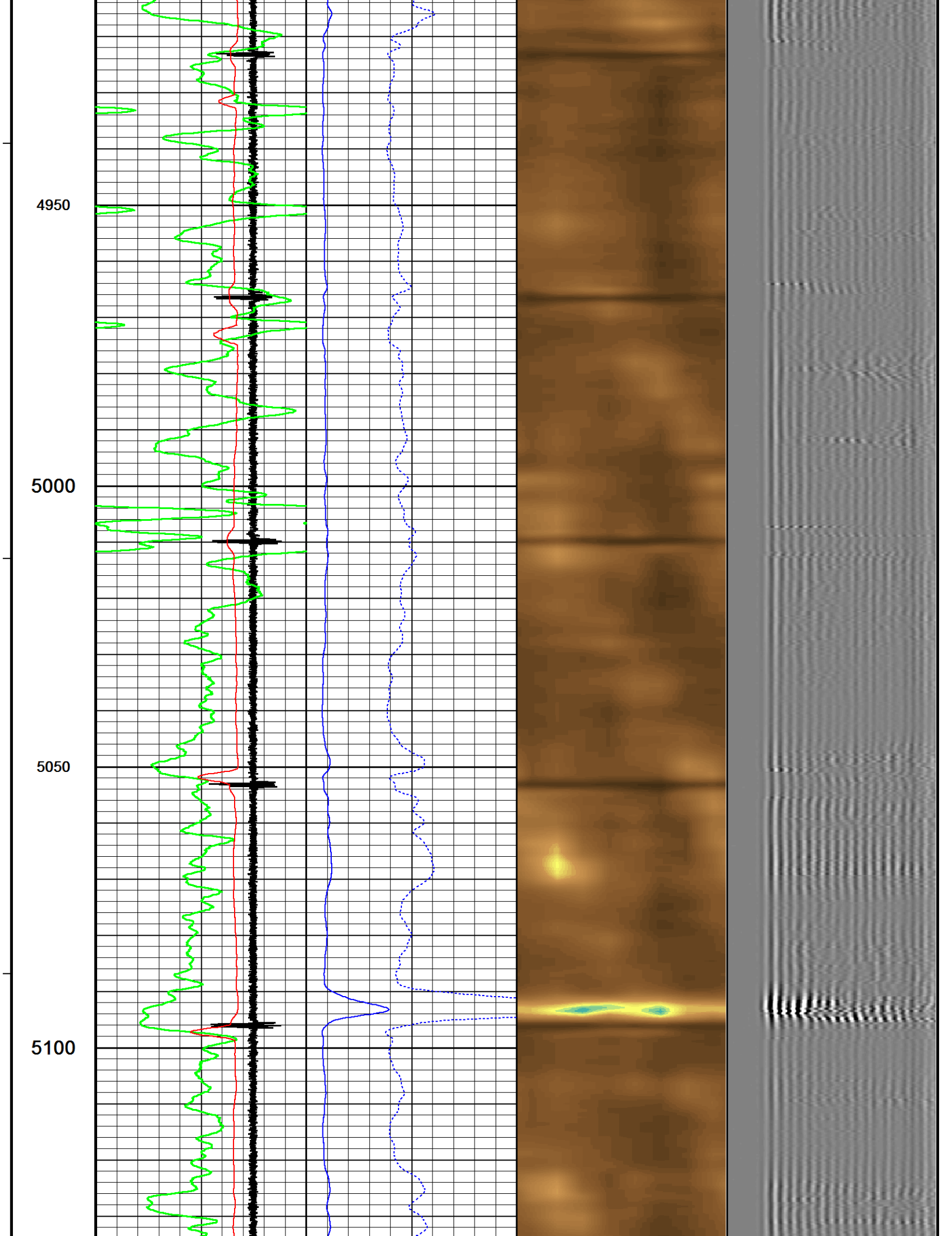


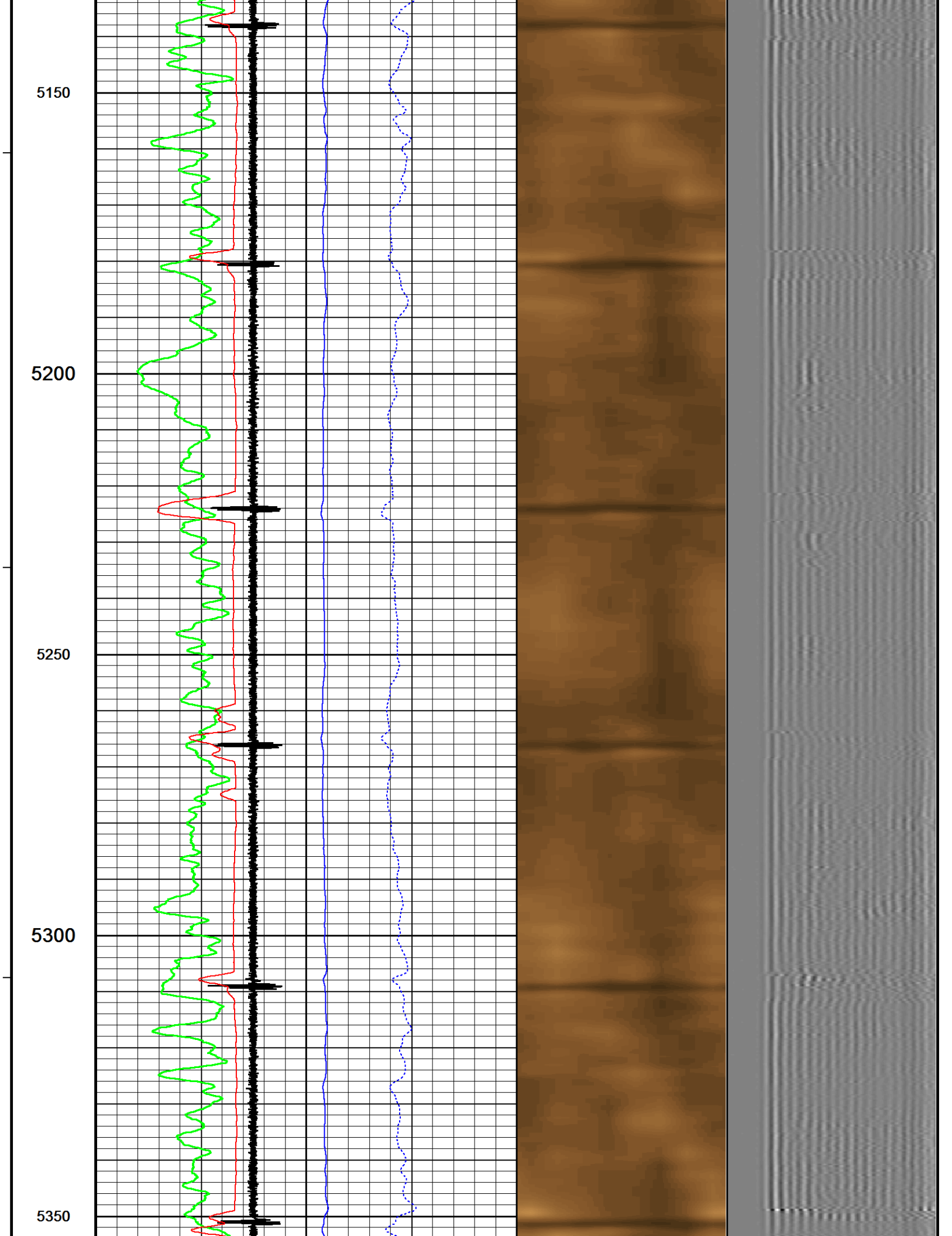


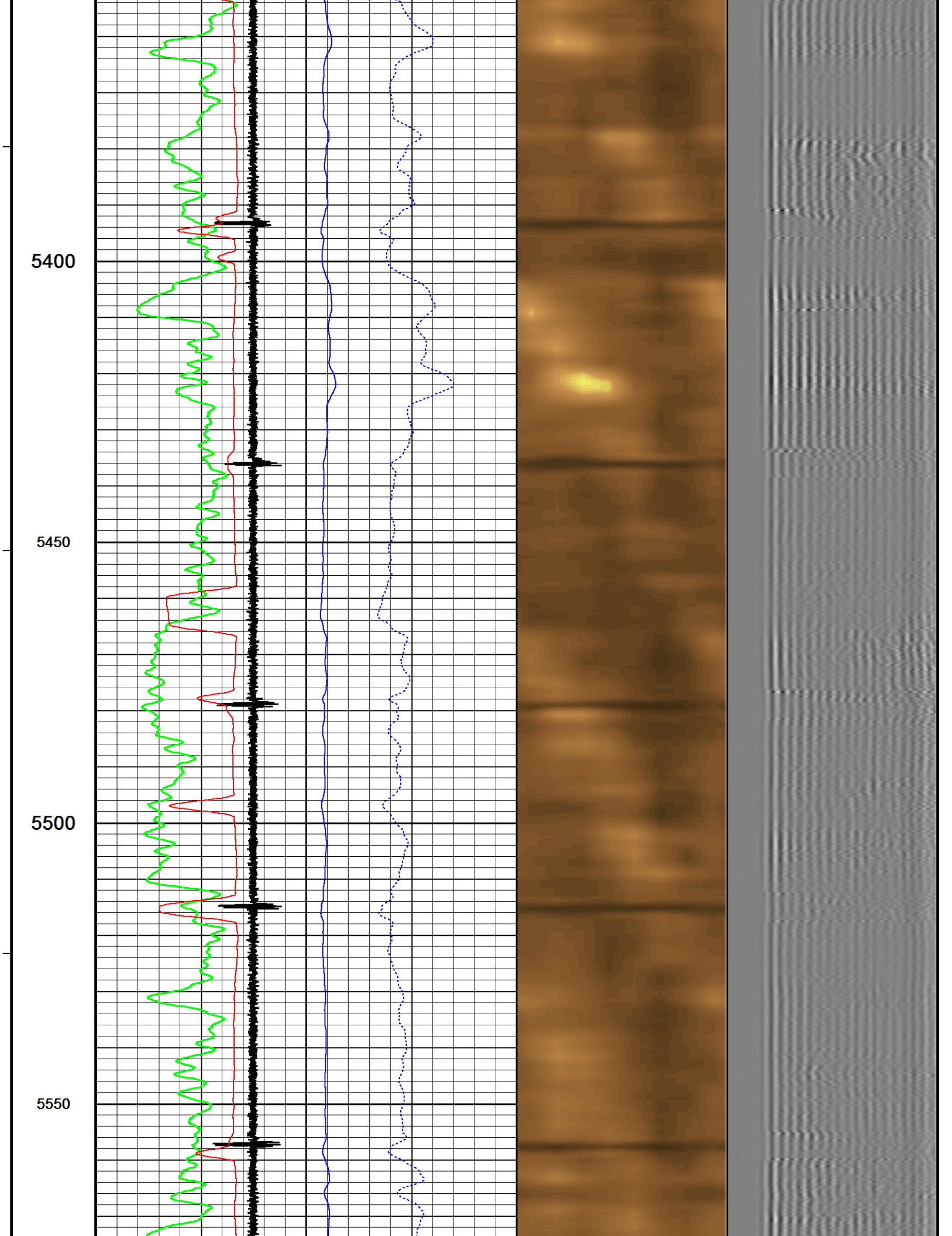


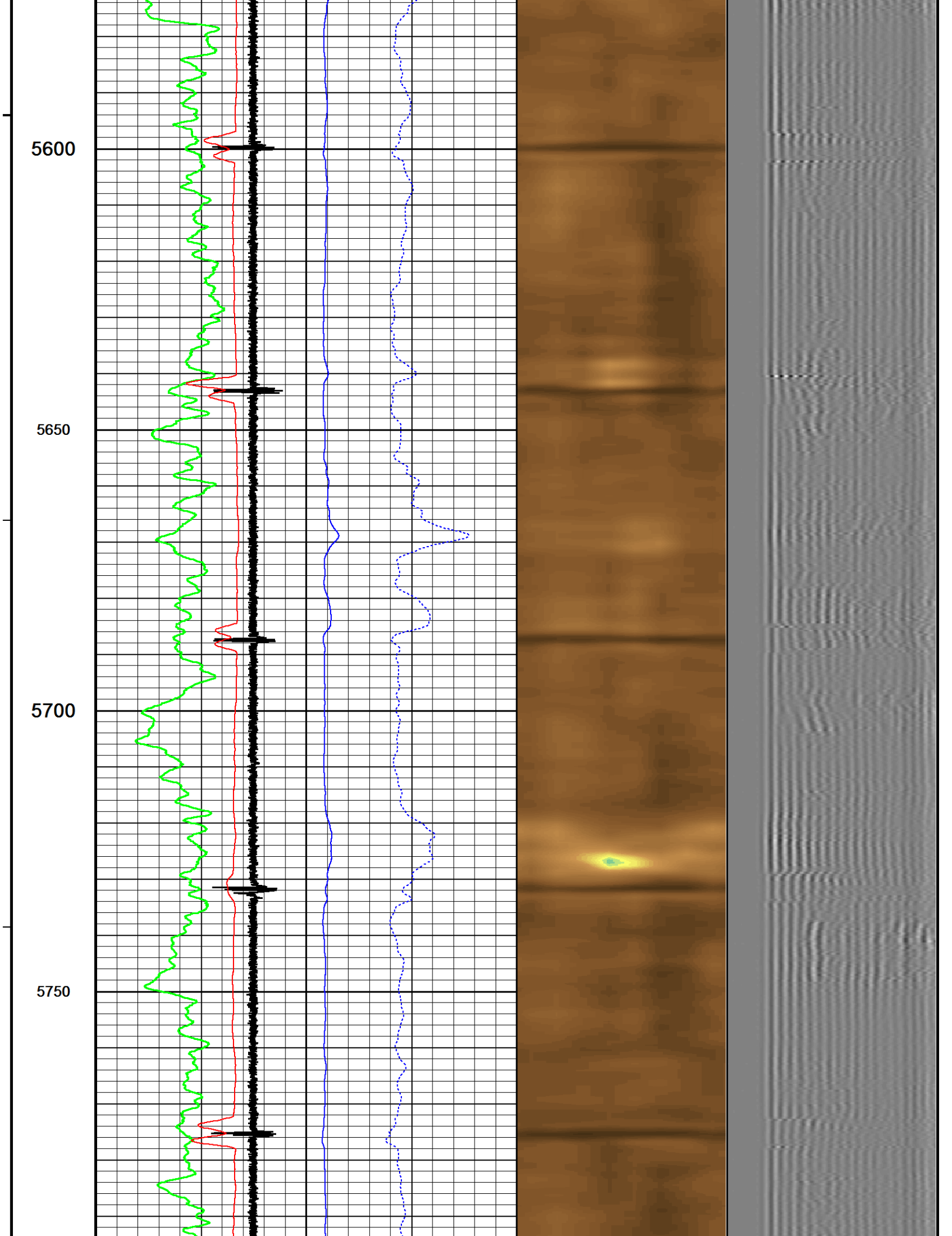












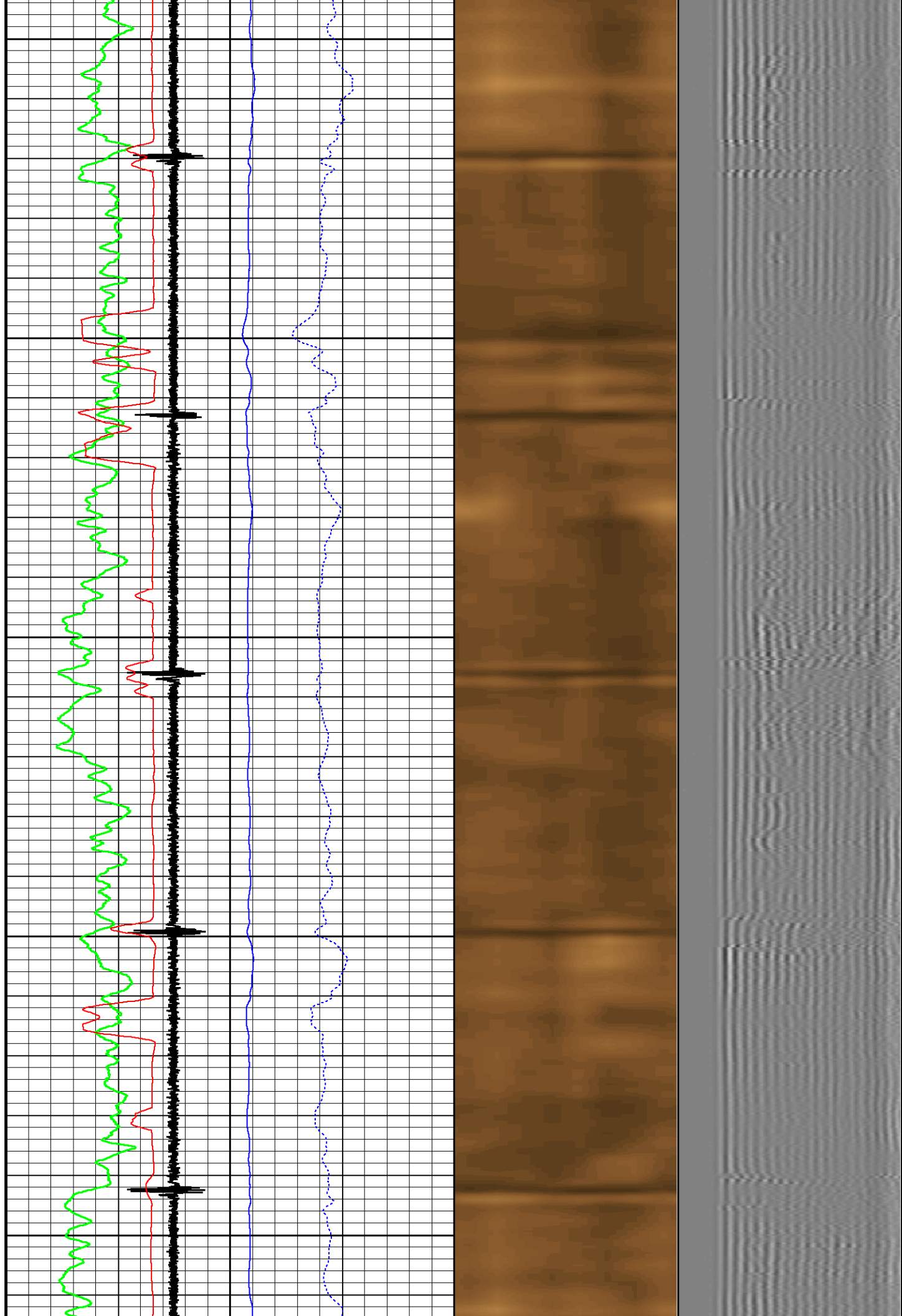
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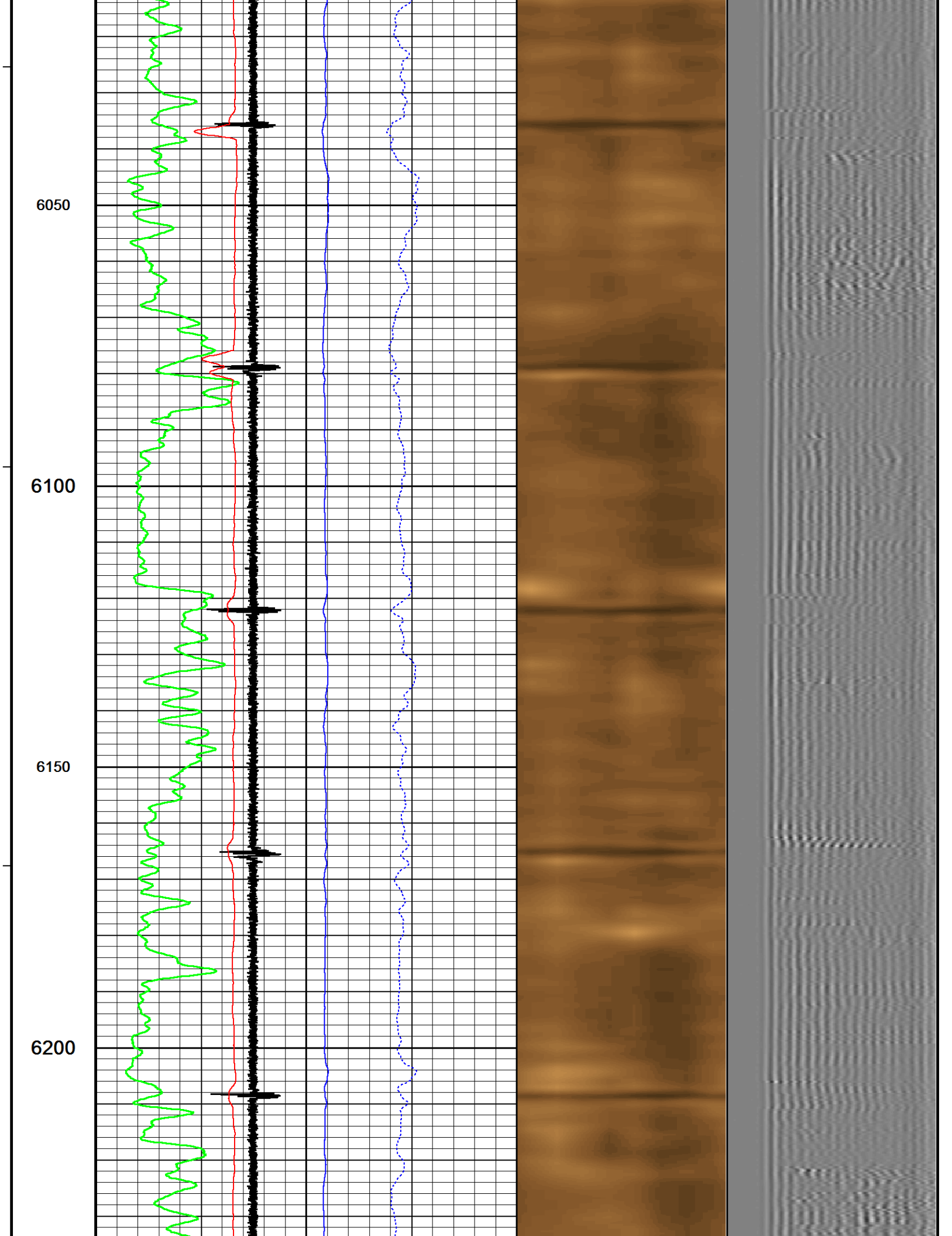
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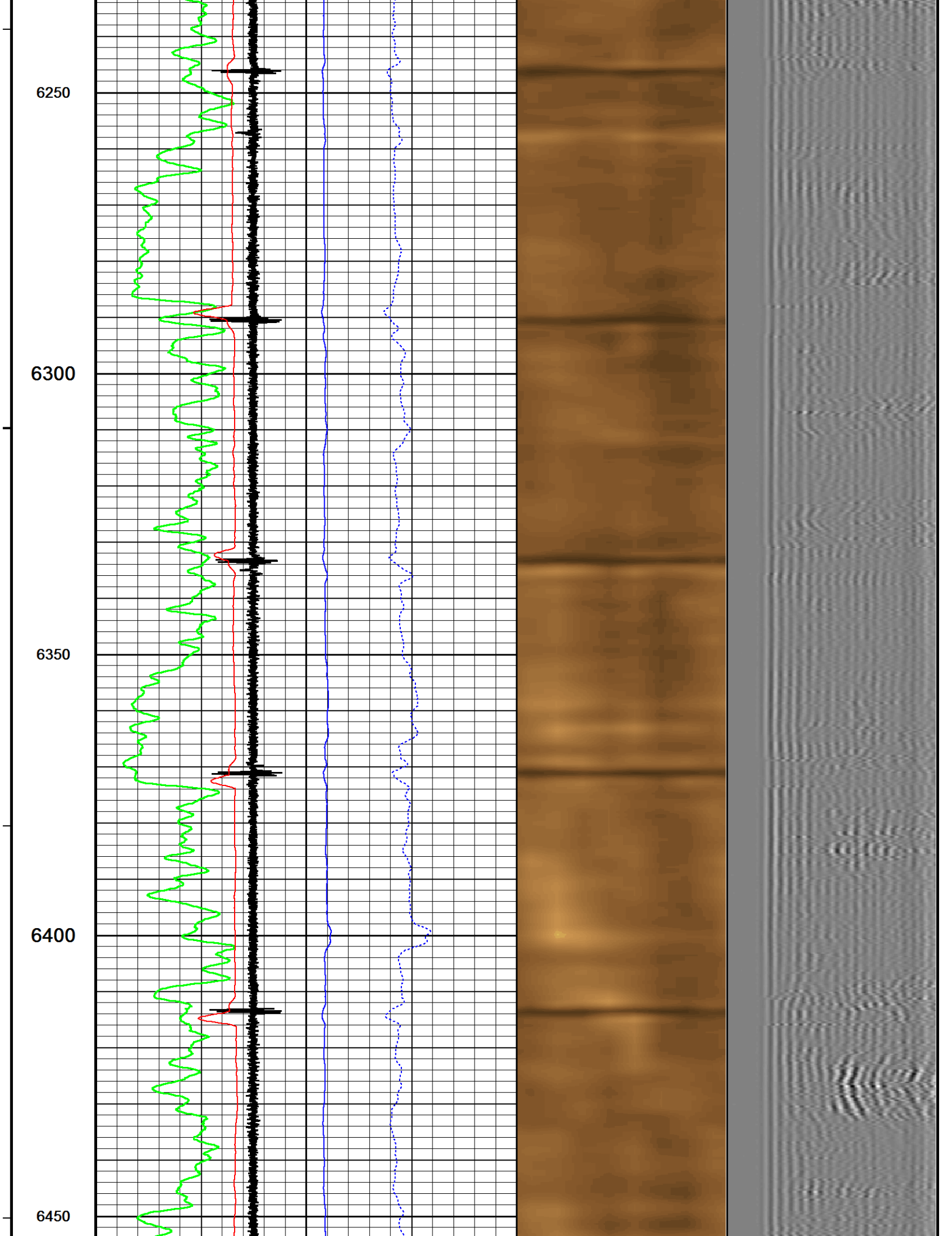
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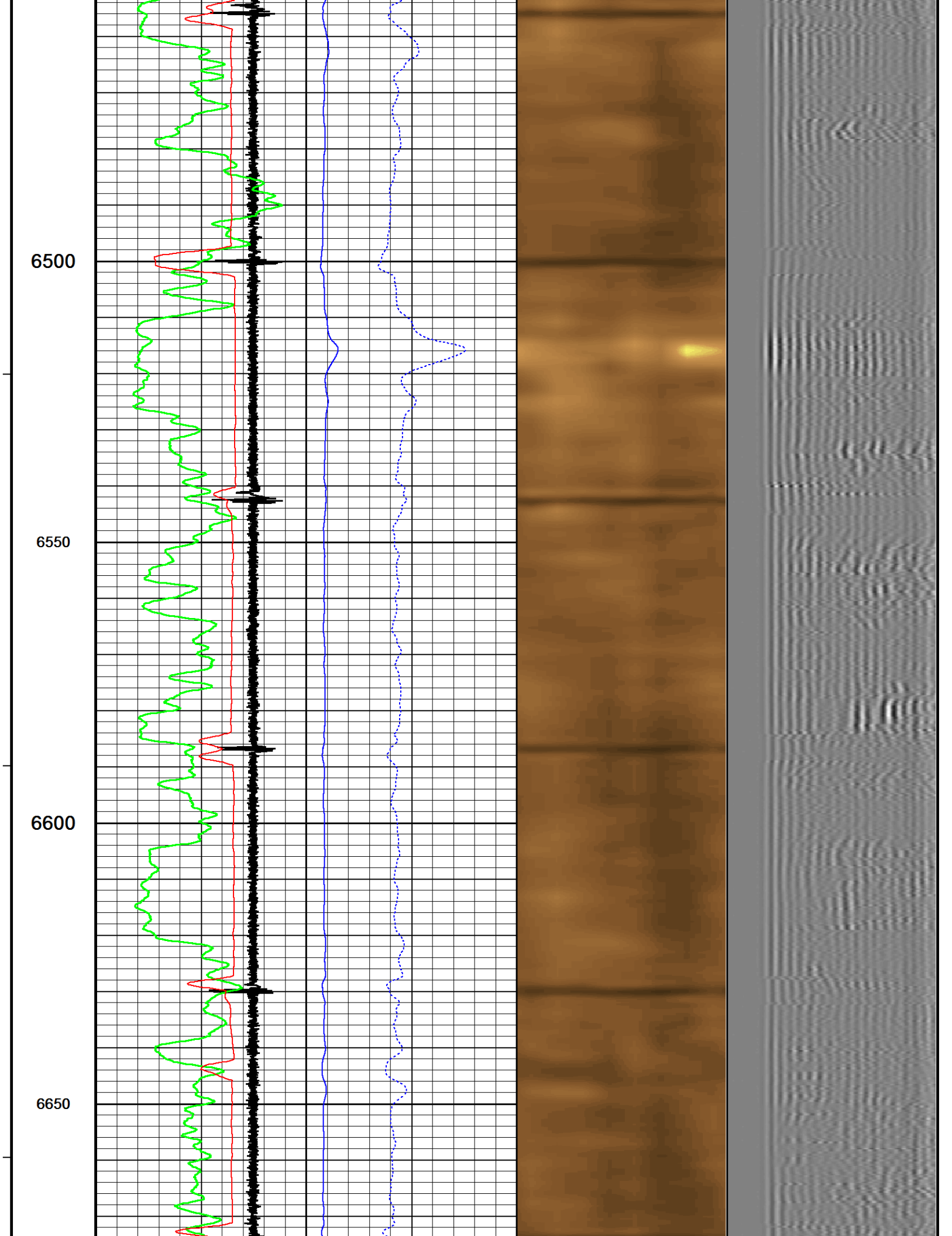
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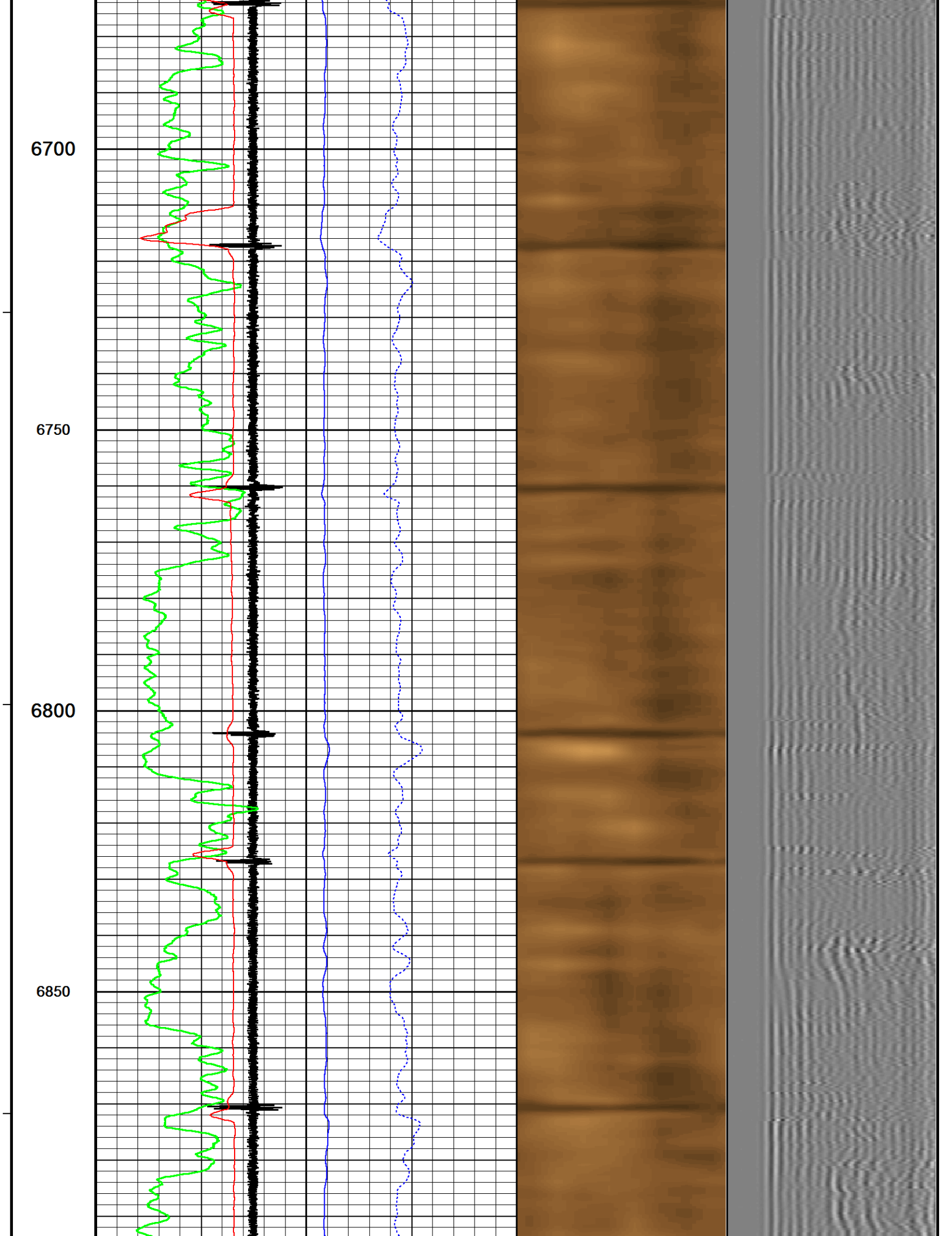
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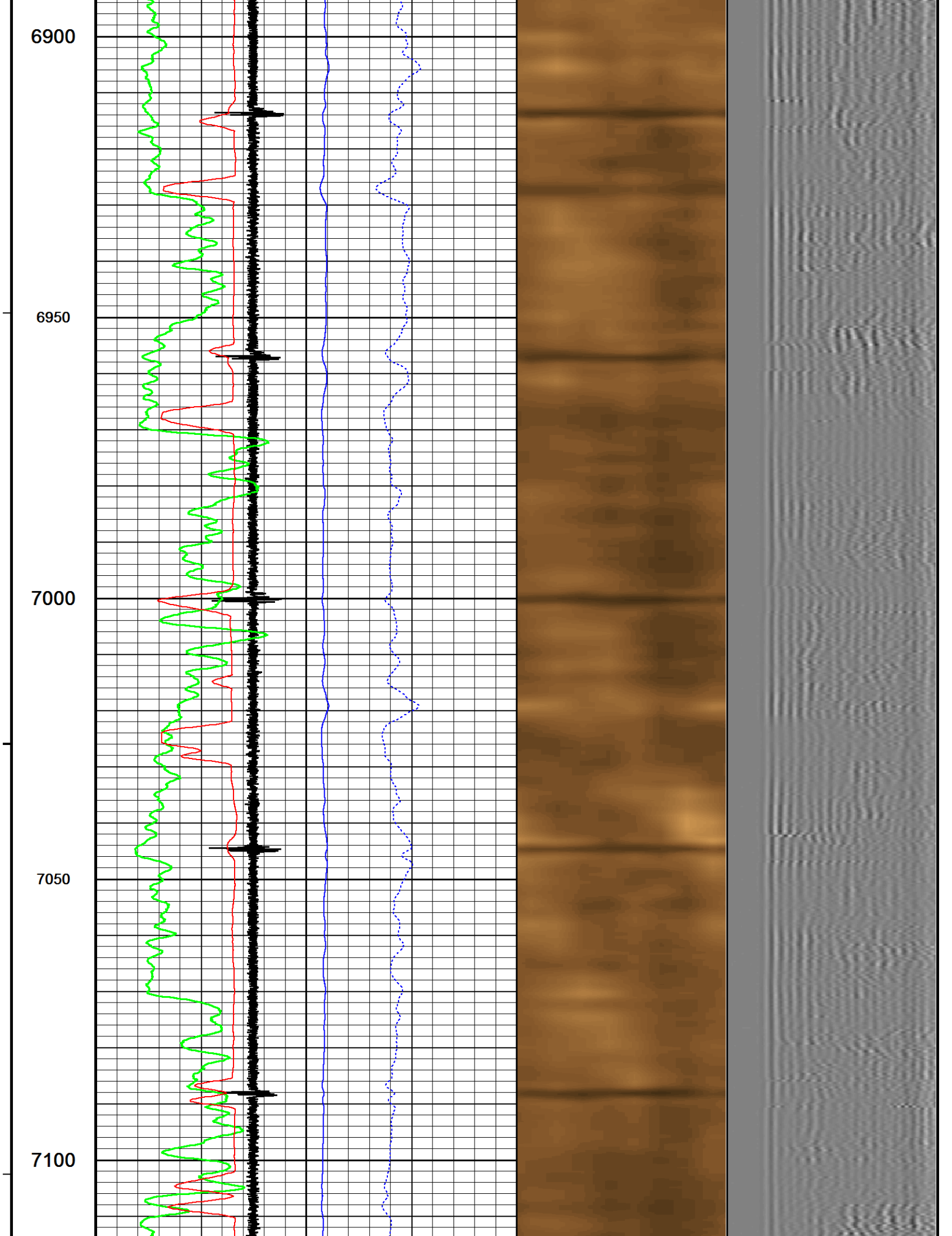


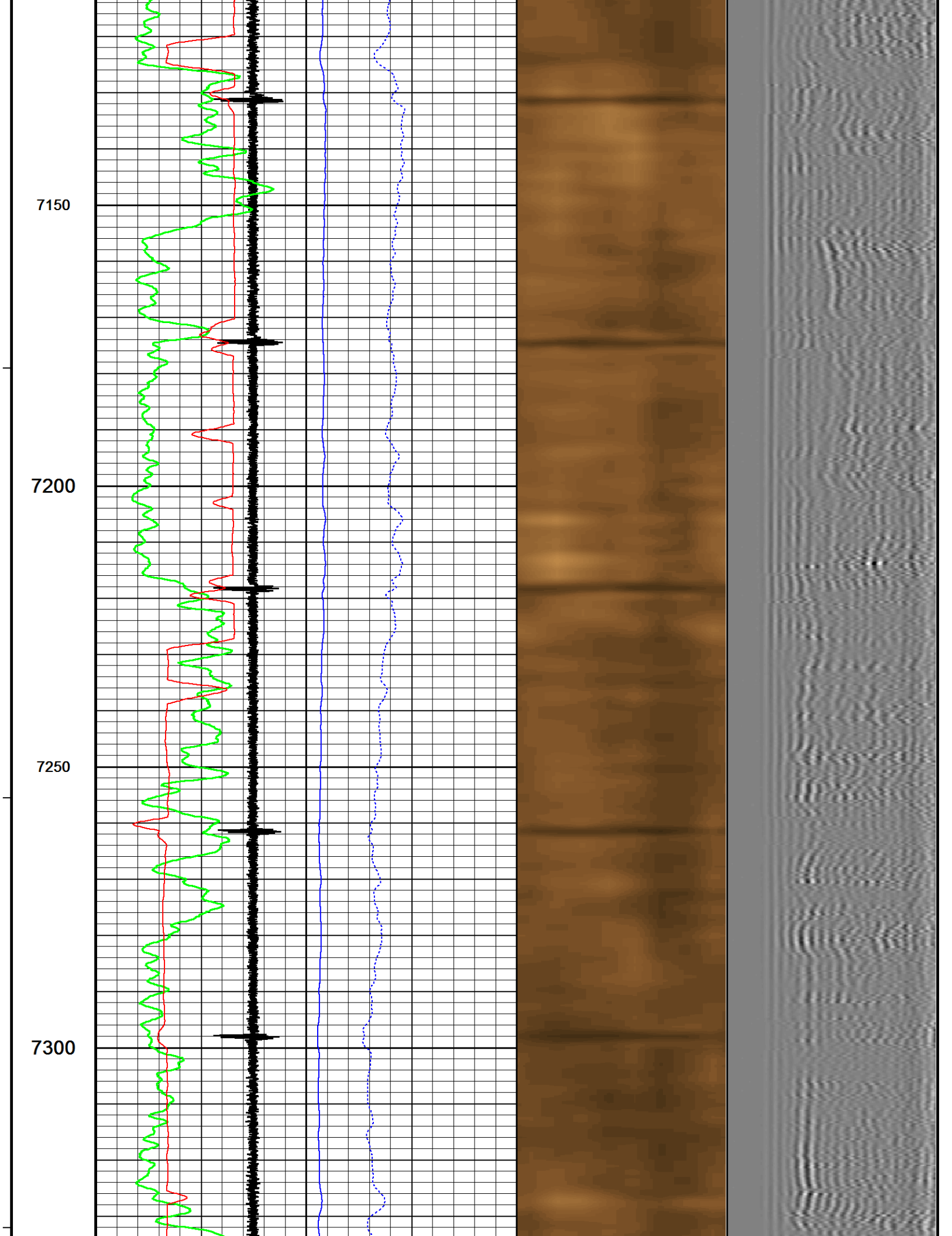


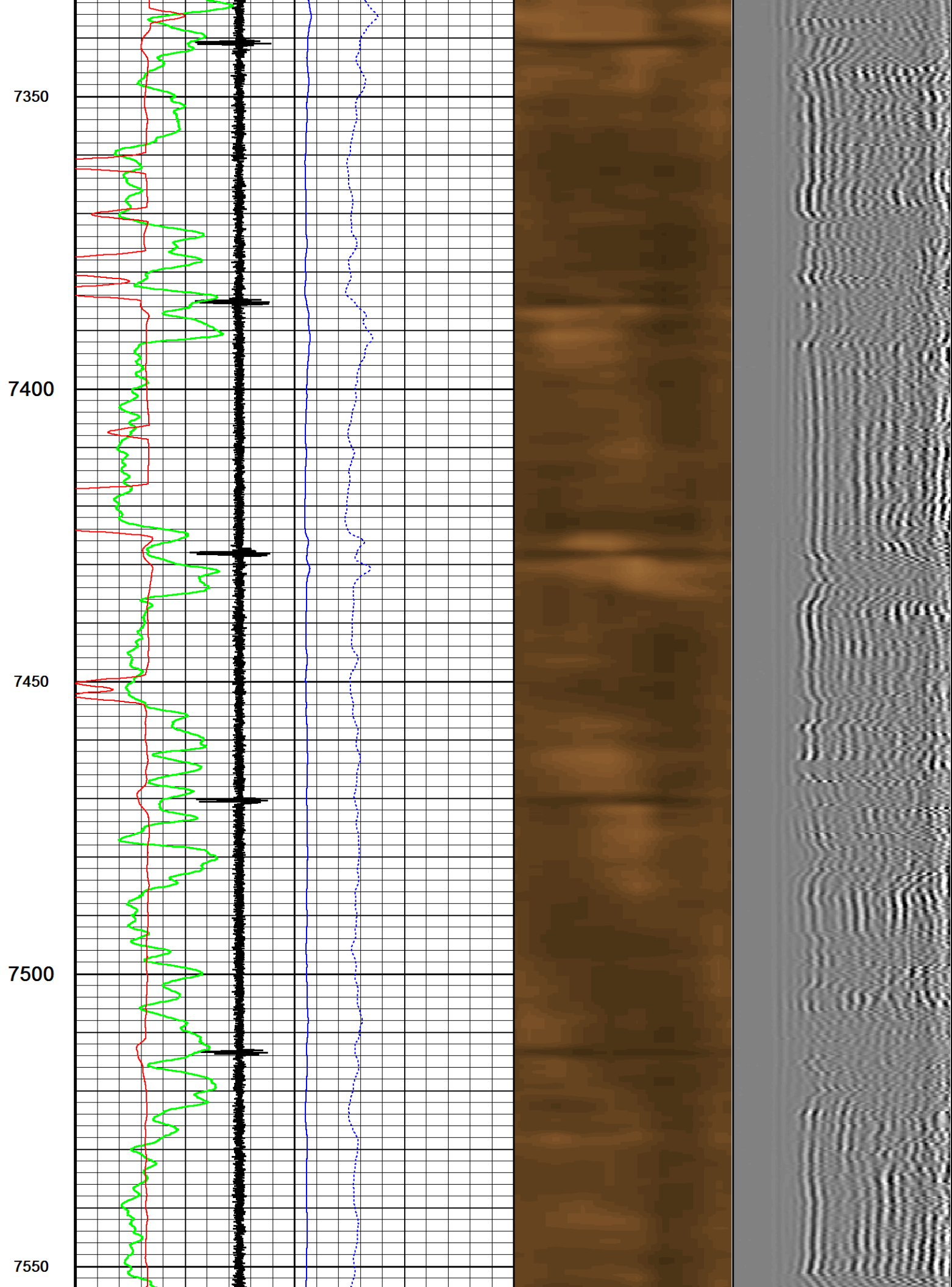


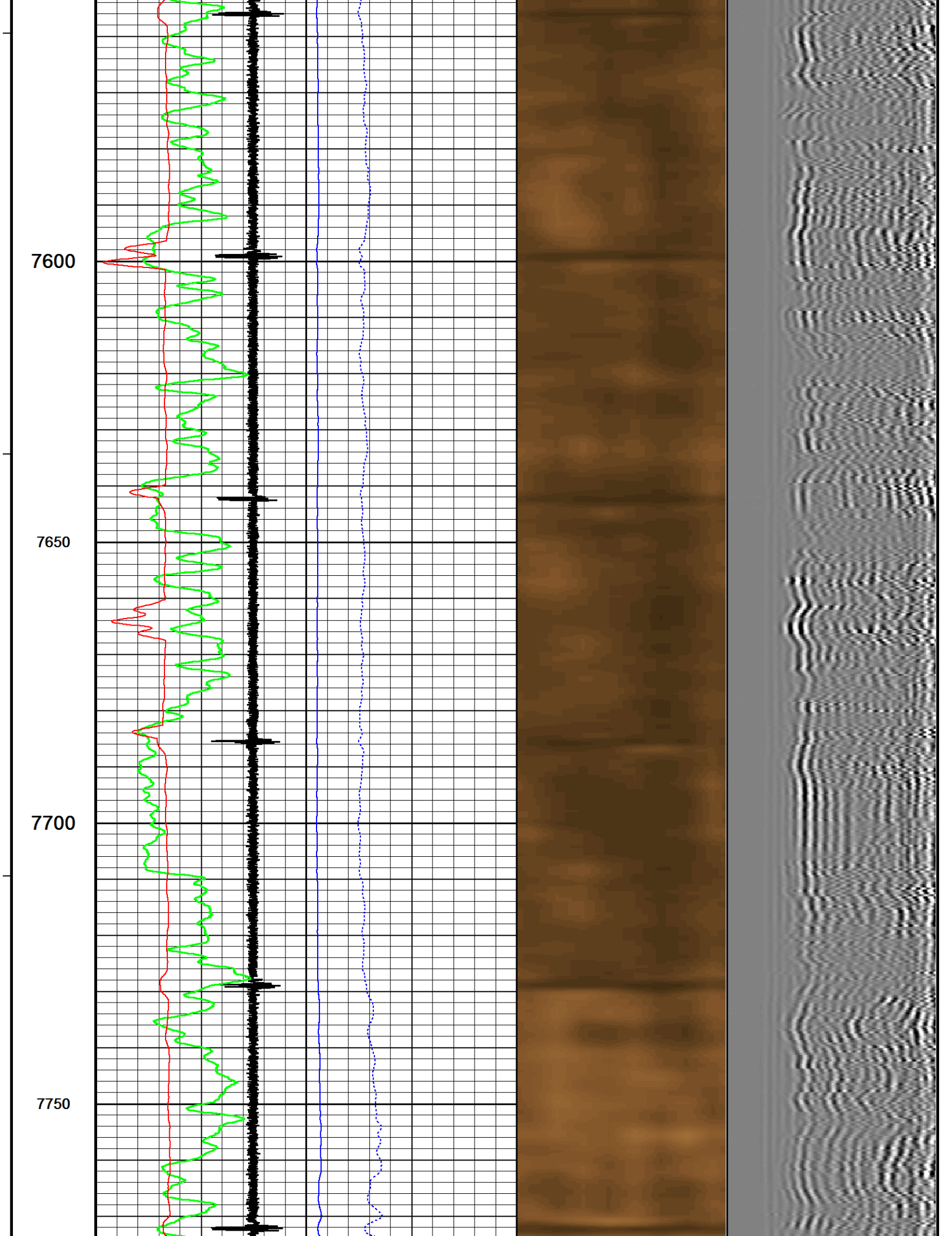


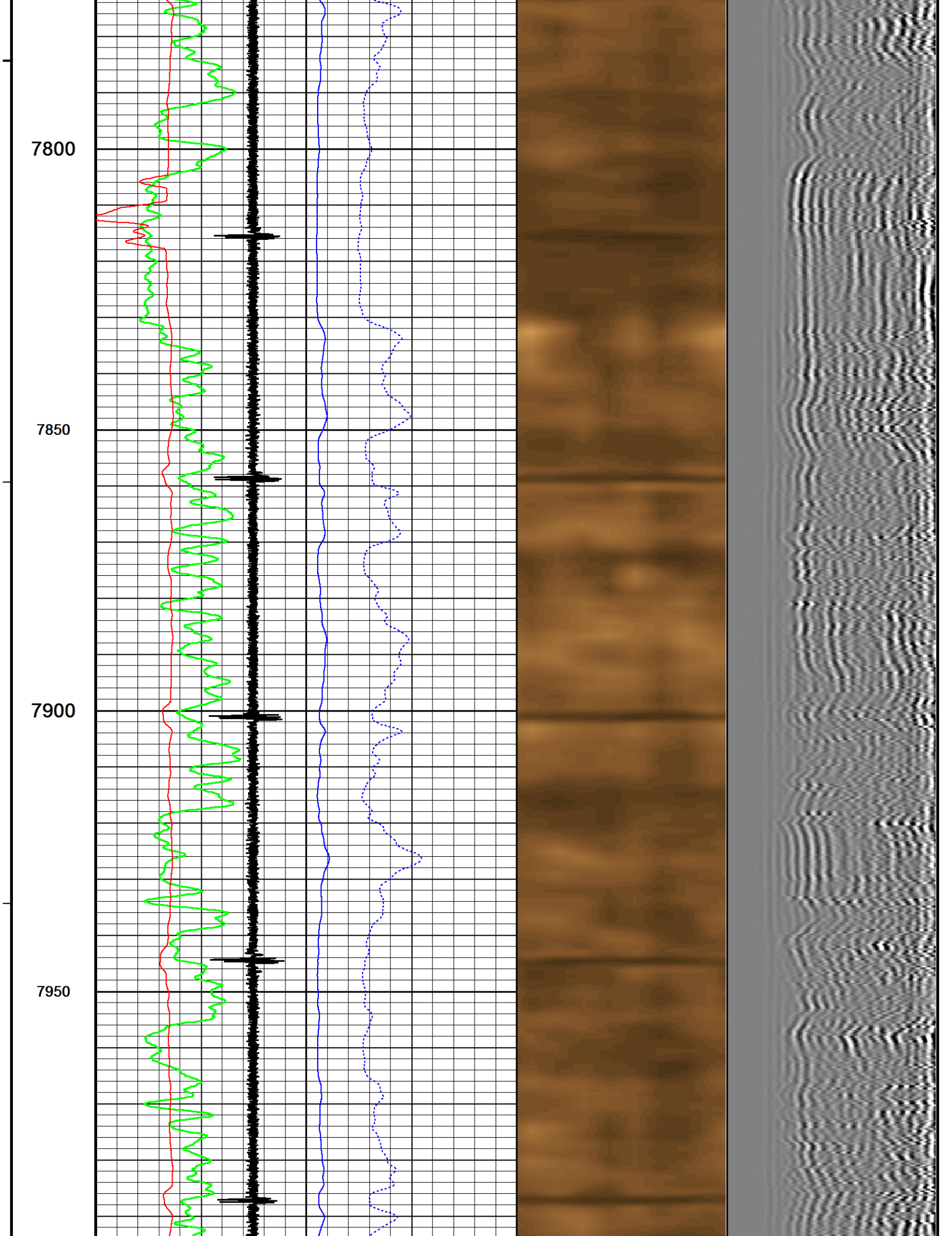


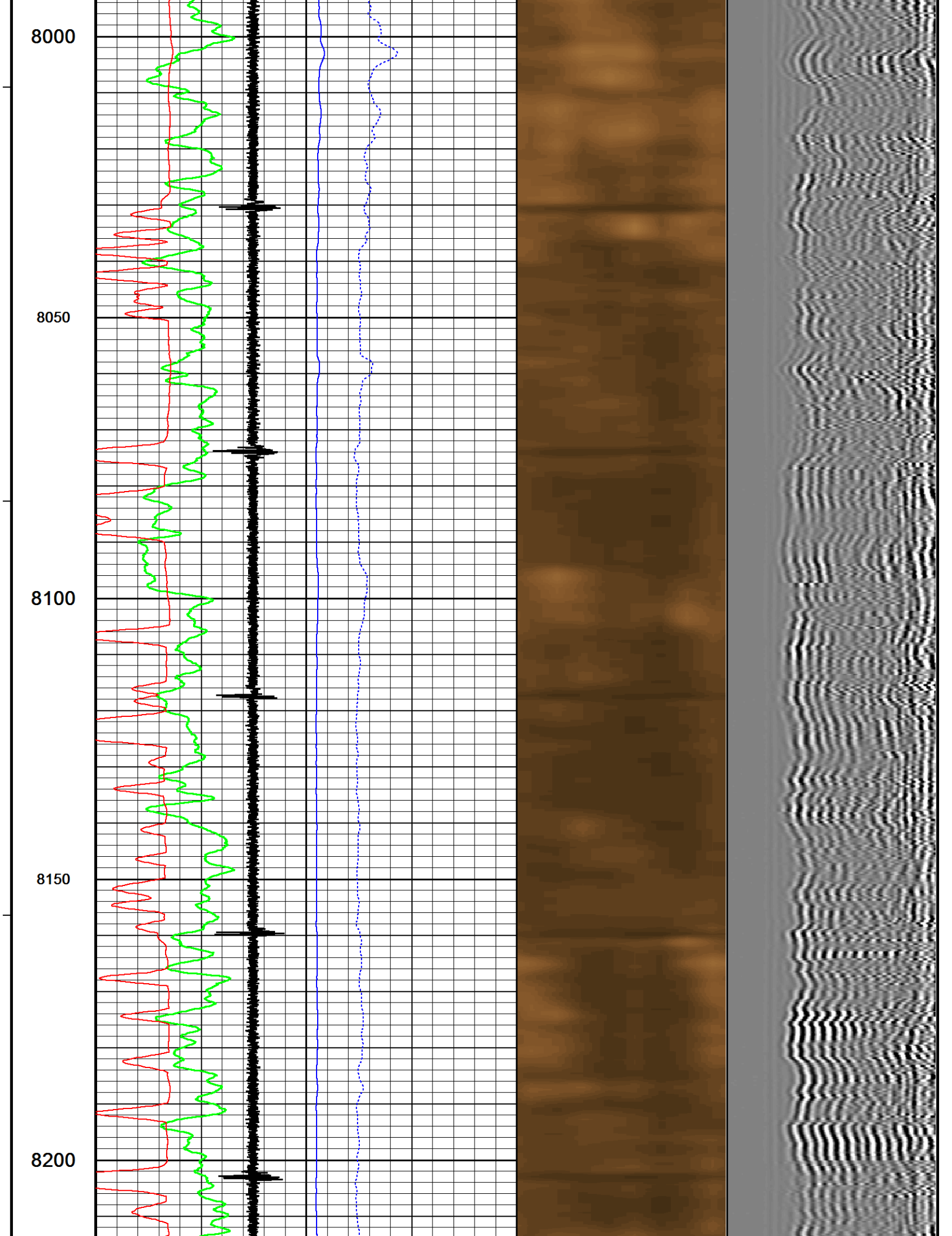


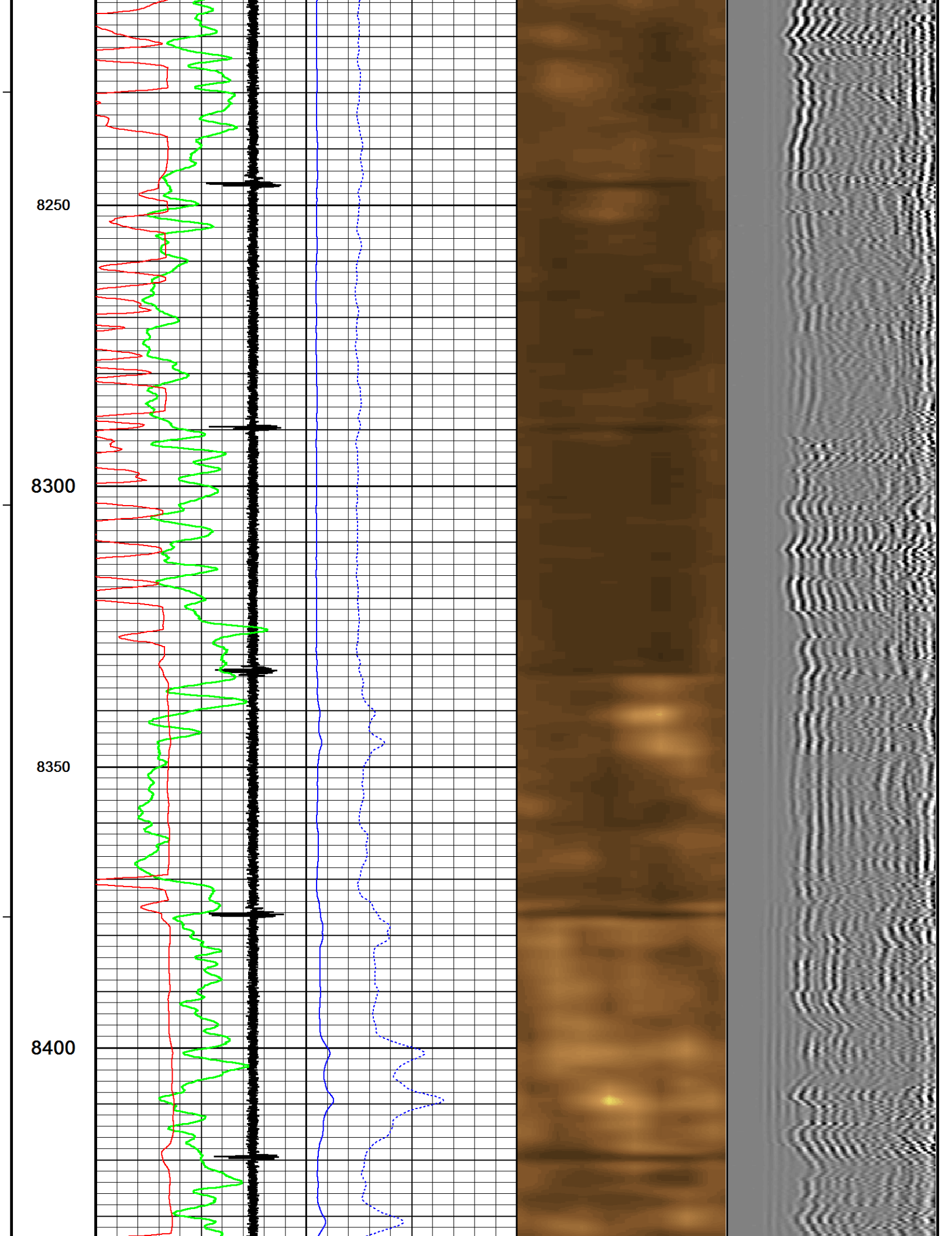


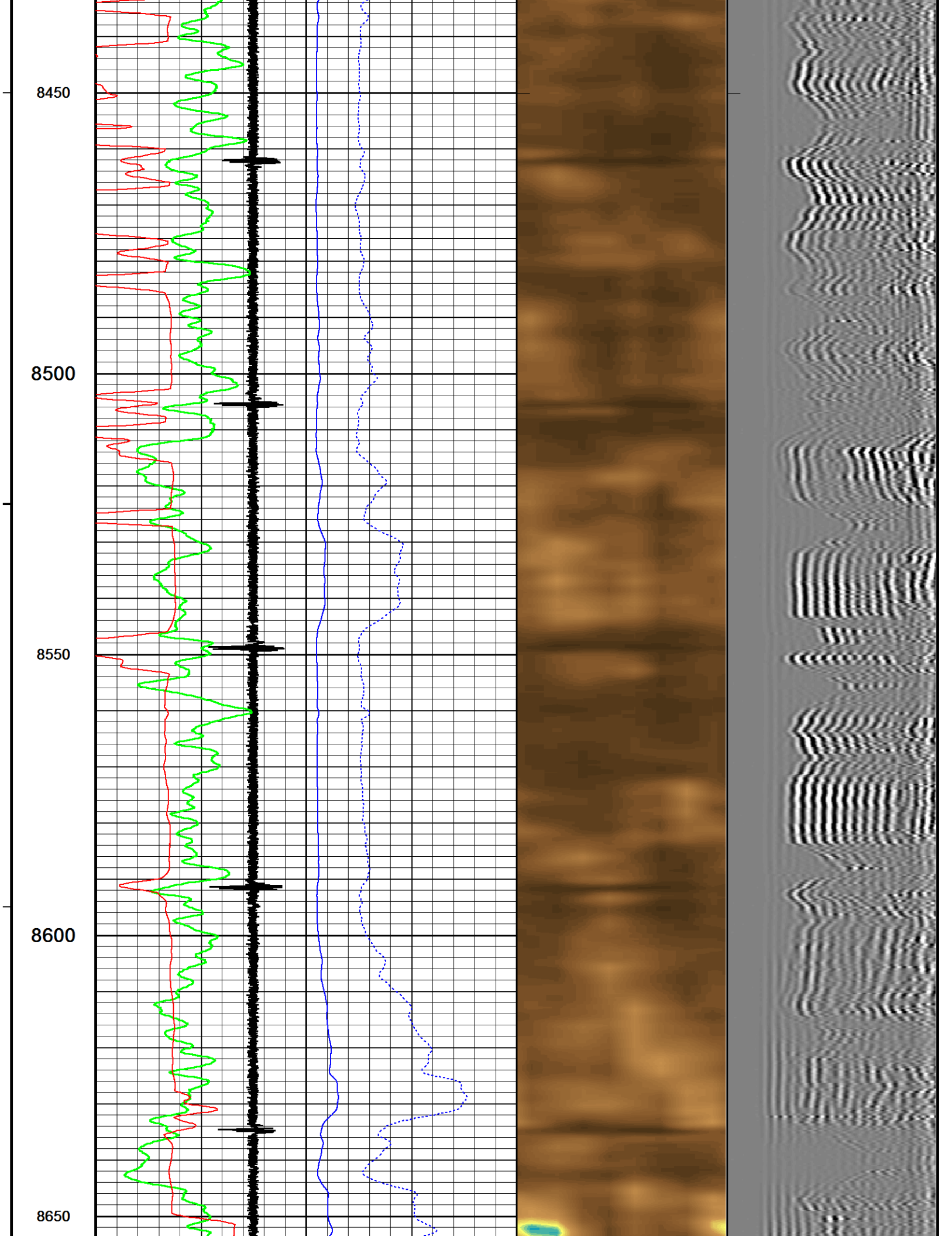


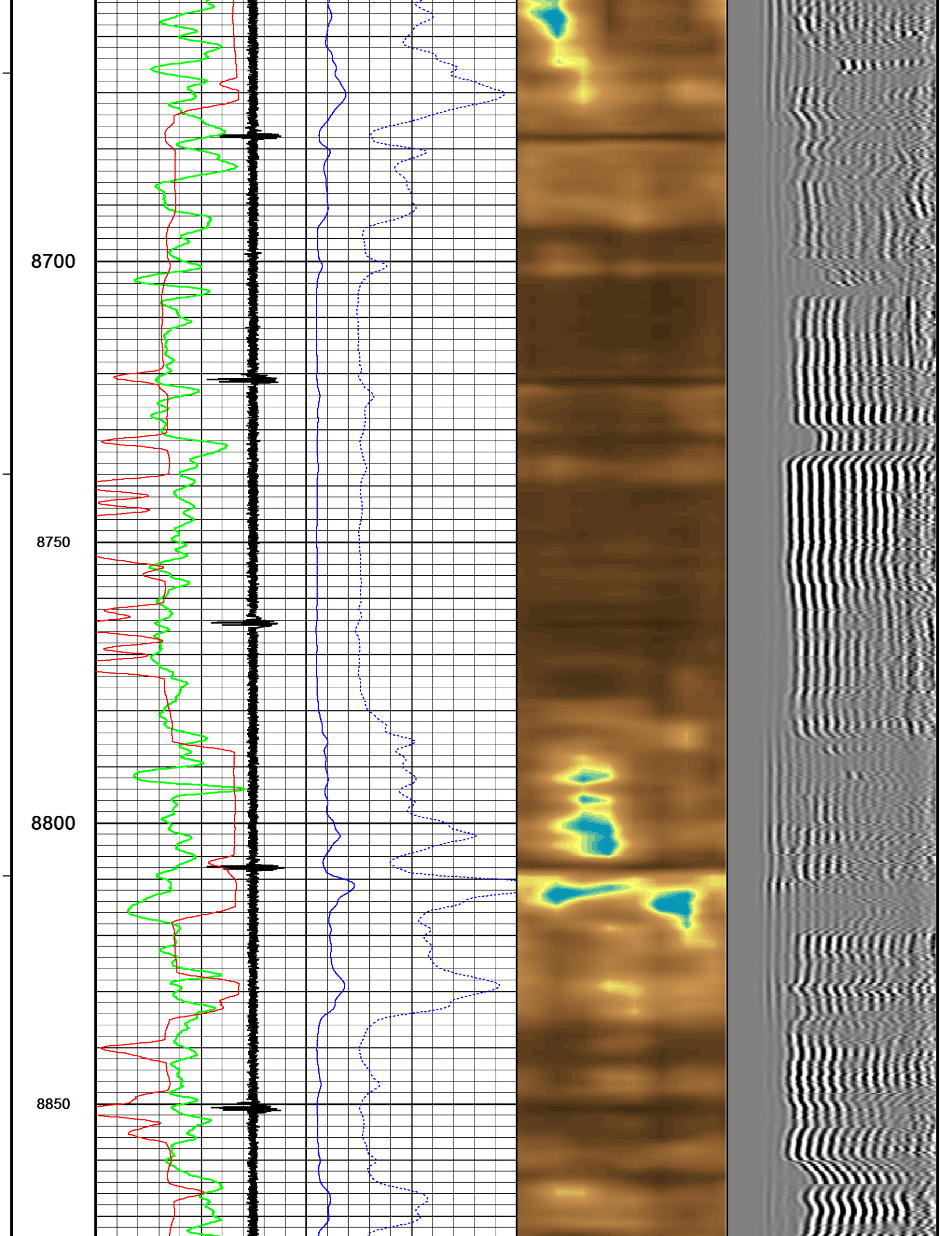


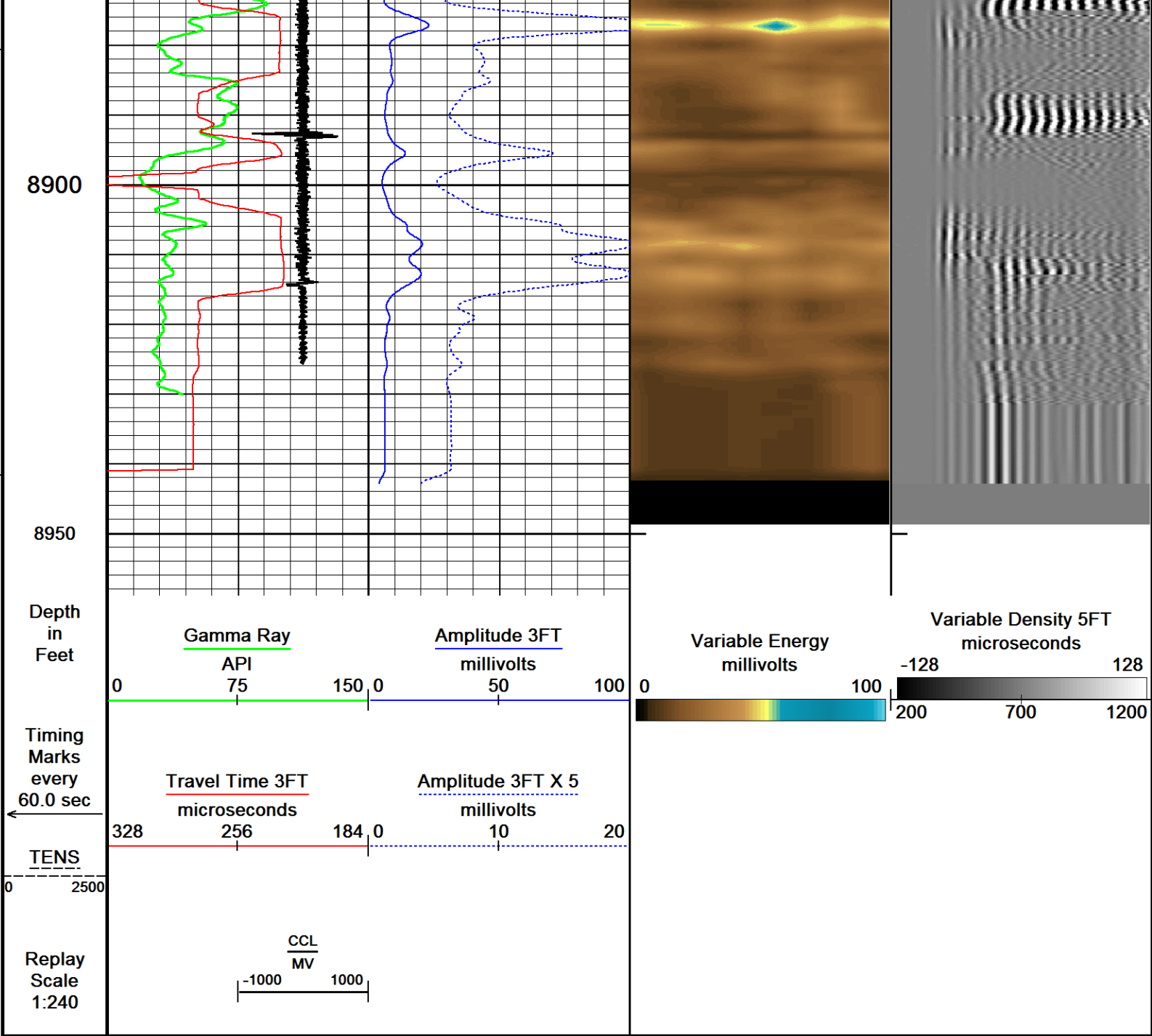






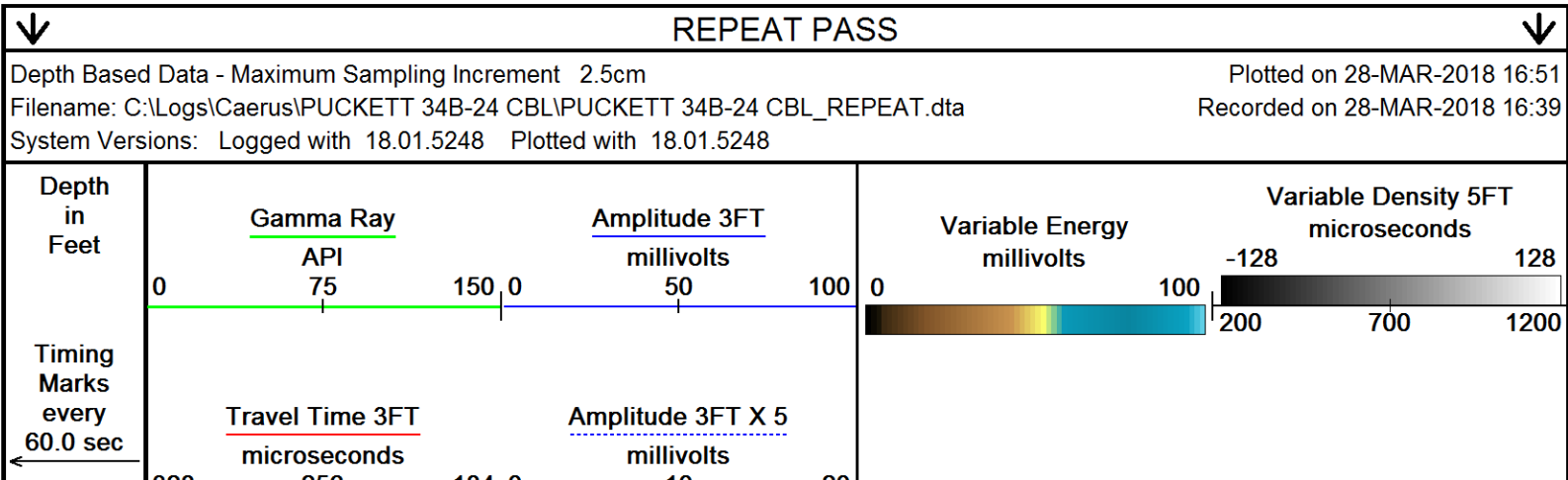






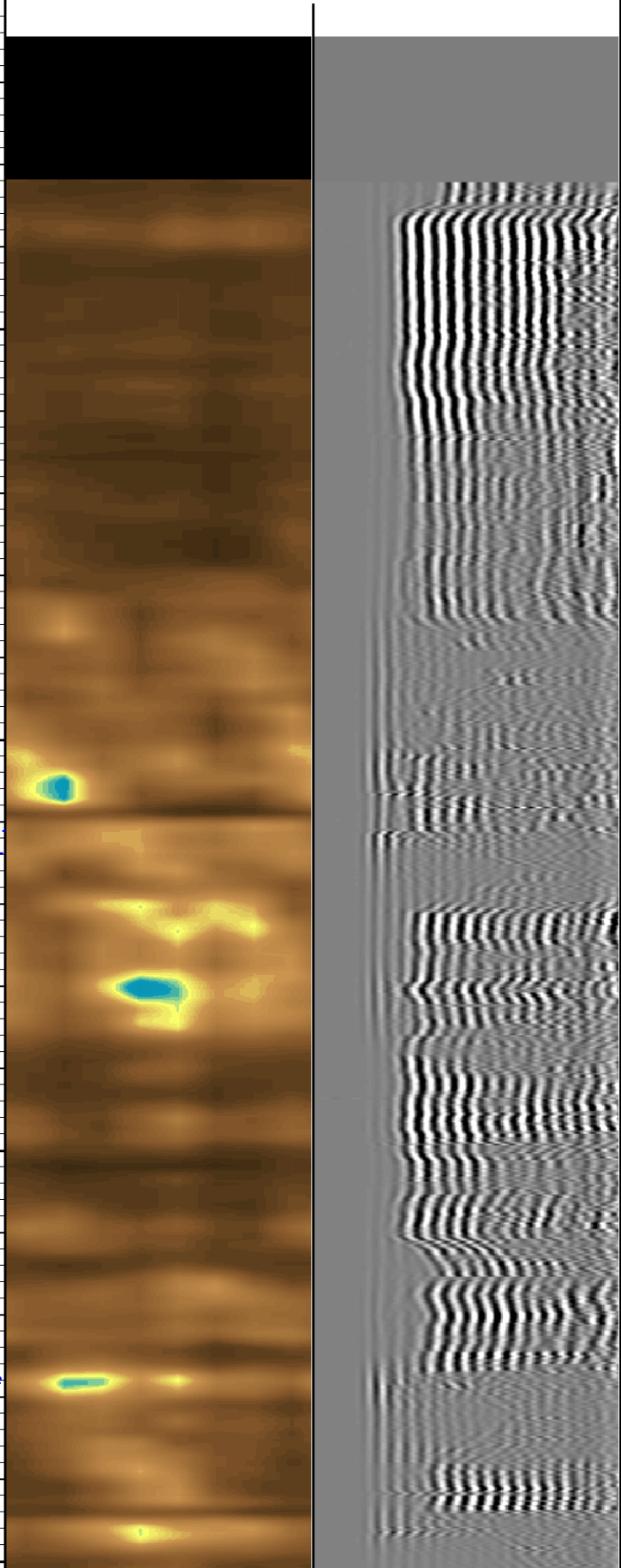
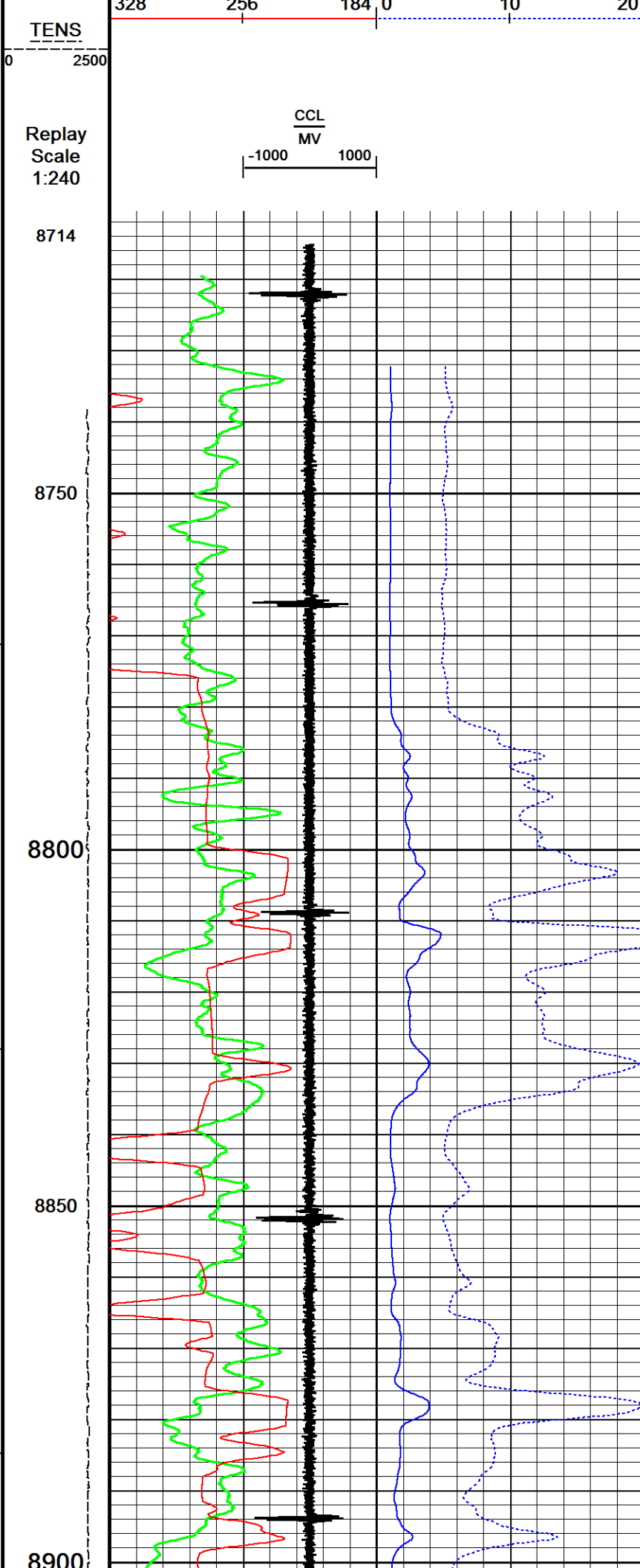
Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Logs\Caerus\PUCKETT 34B-24 CBL\PUCKETT 34B-24 CBL_MAIN.dta
System Versions: Logged with 18.01.5248 Plotted with 18.01.5248
Plotted on 28-MAR-2018 16:51
Recorded on 28-MAR-2018 16:33

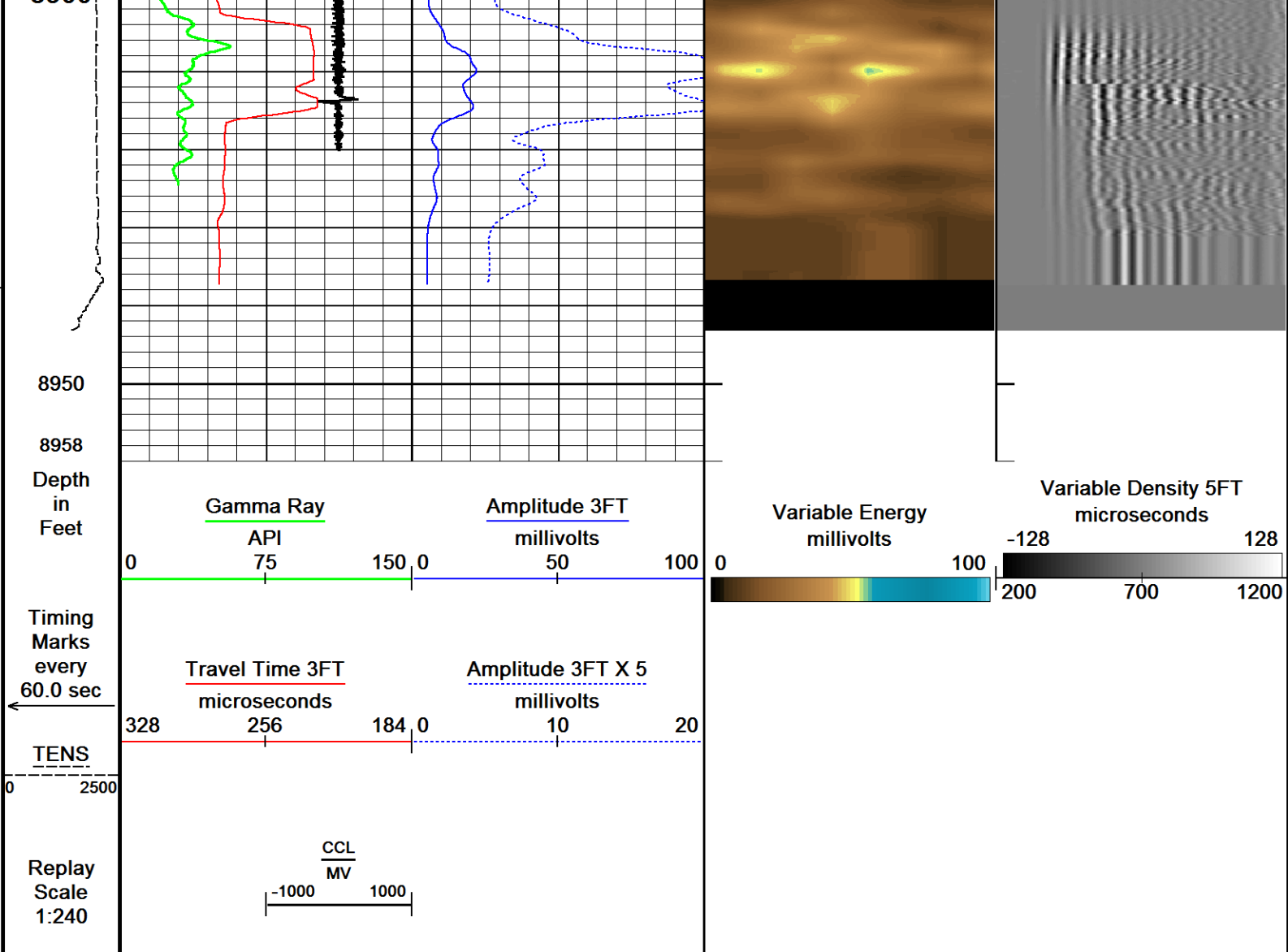
↑ MAIN PASS ↑



↓ REPEAT PASS ↓

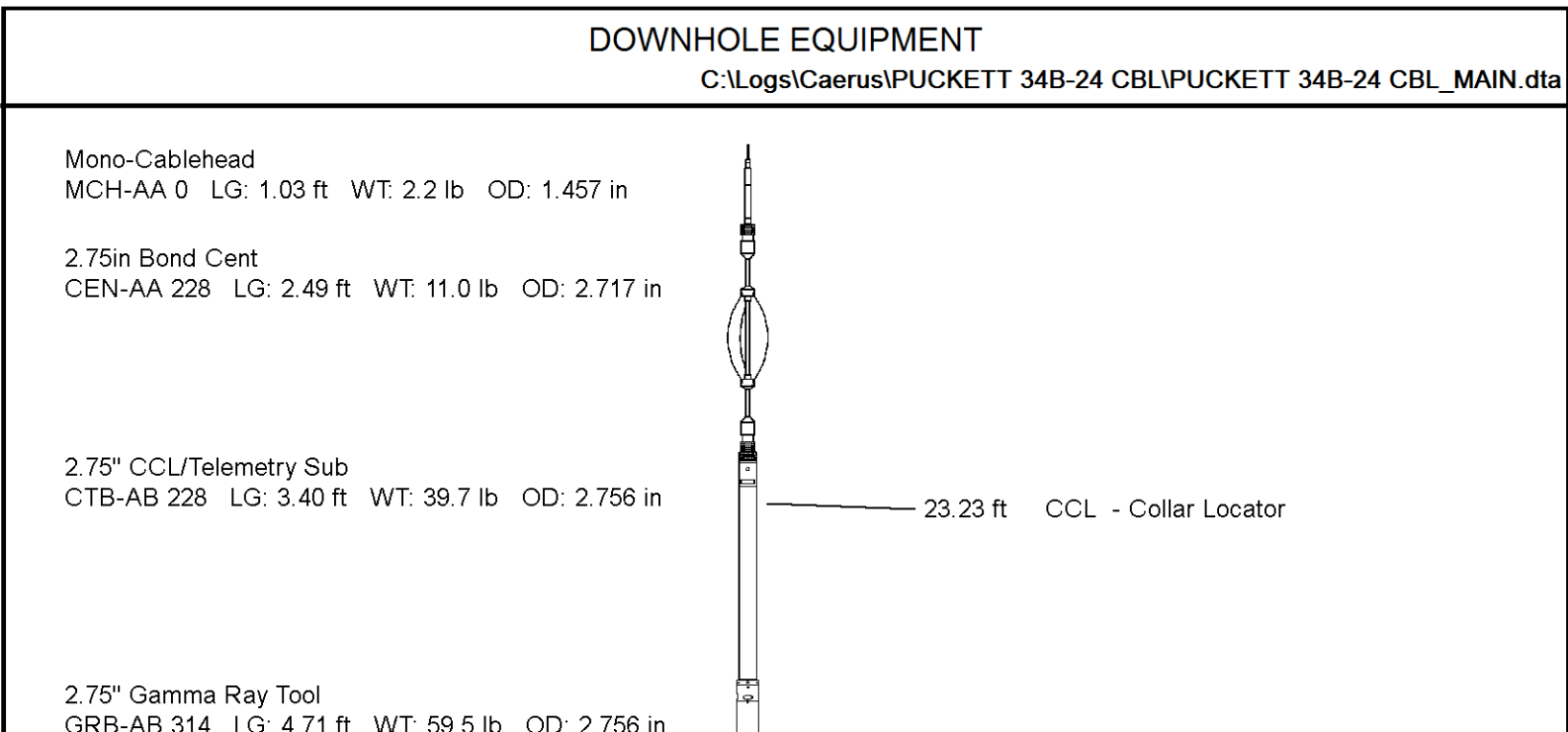
Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Logs\Caerus\PUCKETT 34B-24 CBL\PUCKETT 34B-24 CBL_REPEAT.dta
System Versions: Logged with 18.01.5248 Plotted with 18.01.5248
Plotted on 28-MAR-2018 16:51
Recorded on 28-MAR-2018 16:39





Depth Based Data - Maximum Sampling Increment 2.5cm
 Plotted on 28-MAR-2018 16:51
 Filename: C:\Logs\Caerus\PUCKETT 34B-24 CBL\PUCKETT 34B-24 CBL_REPEAT.dta
 Recorded on 28-MAR-2018 16:39
 System Versions: Logged with 18.01.5248 Plotted with 18.01.5248

↑ REPEAT PASS ↑



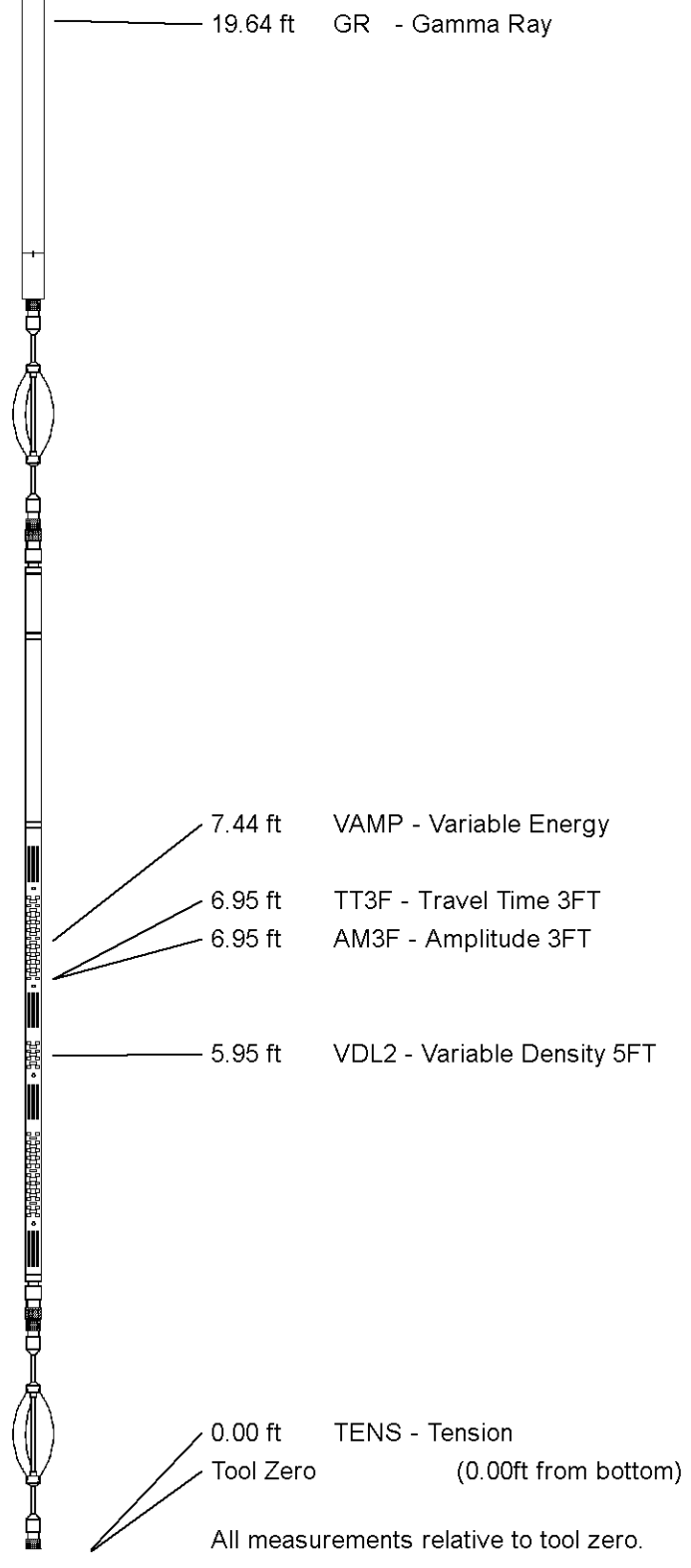
GRB-AB 314 LG: 27.53 ft WT: 235.9 lb OD: 2.717 in

2.75in SBT Middle
CEN-BA 123 LG: 3.08 ft WT: 22.0 lb OD: 2.717 in

Sector Bond Tool
SBT-AA 316 LG: 10.32 ft WT: 90.4 lb OD: 2.717 in

2.75in Bond Cent
CEN-AA 216 LG: 2.49 ft WT: 11.0 lb OD: 2.717 in

Total Length: 27.53 ft Weight: 235.9 lb



SHOP AND FIELD CALIBRATIONS

C:\Logs\Caerus\PUCKETT 34B-24 CBL\PUCKETT 34B-24 CBL_MAIN.dta

UGR Field Survey Cal GRB-AB 314

Field calibration on 00-JAN-1988 00:00

Gamma Ray Field Survey calibration

Tool Type: GRB-AB Serial No: 314
Calibrator No:

Background	calibrator	Standard	Units
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102.2	102.2	110.0	CPM
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Delta Counts Per Sec: 390.6

CPS/API = 2.790

SBT Field Calibration SBT-AA 316

Field Calibration on 27-MAR-2018 15:38

Sector Bond Field Calibration

Tool Type SBT-AA Serial No 316

TO Gain 3dB Free Pipe Depth

Sensor	Description	Standard(mv)	Measured(mv)
AMP 3FT	100% Bond	3.60	0.40
	Free Pipe	81.00	853.40
AMP 5FT	100% Bond	0.40	0.70
	Free Pipe	54.00	1894.20
1 SECTOR AMP	100% Bond	5.00	1.90
	Free Pipe	95.00	726.90
2 SECTOR AMP	100% Bond	5.00	25.10
	Free Pipe	95.00	794.30
3 SECTOR AMP	100% Bond	5.00	0.90
	Free Pipe	95.00	725.80
4 SECTOR AMP	100% Bond	5.00	2.30
	Free Pipe	95.00	739.80
5 SECTOR AMP	100% Bond	5.00	0.80
	Free Pipe	95.00	860.50
6 SECTOR AMP	100% Bond	5.00	16.70
	Free Pipe	95.00	804.10
7 SECTOR AMP	100% Bond	5.00	2.80
	Free Pipe	95.00	663.40
8 SECTOR AMP	100% Bond	5.00	7.70
	Free Pipe	95.00	711.40

SBT Constants SBT-AA 316

Last Edited on 27-MAR-2018 15:37

Min Ampl 100% Bond	3.63 MV
Max Ampl 0% Bond	81.03 MV
Casing Size	4.50 IN
Casing Weight	11.6 LB/F
3' TT Correction	-999.0 US
DT Fluid	200.0 US/F
Fast Formation TT	38.5 US/F
Cement Cmpr Strength	580 PSI
Casing Velocity	57.00 US/F
Maximum Attenuation	12.00 DB/F
Cement Weight	0.00 LB/G

COMPANY	CAERUS OIL & GAS
WELL	PUCKETT 34B-24
FIELD	GRAND VALLEY
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	8181	feet	Bottom Log Interval	8930.00	feet
Elevation Drill Floor	8181	feet	Depth Driller	9077.00	feet
Elevation Ground Level	8151	feet	Depth Logger	8950.00	feet



Weatherford®

CEMENT BOND LOG