 Weatherford®				CEMENT BOND LOG			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				CAERUS OIL & GAS PUCKETT 44A-24 GRAND VALLEY GARFIELD USA / COLORADO			
SEC 24	TWP 6S	RGE 97W	Other Services PND				
Latitude		Permanent Datum GROUND LEVEL, Elevation 8151 feet Log Measured From KB, 30.00 feet above Permanent Datum Drilling Measured From KB			Elevations:		feet
Longitude					KB	8181.00	
API Number					DF	8181.00	
					GL	8151.00	
Date	27-MAR-2018	PERFORATION RECORD					
Run Number	ONE	Shot	Number	Depth From	Depth To		
Service Order	5133-209133639	Density	of Shots	feet	feet		
Type Log	Type Log						
Depth Driller	9099.00						
Depth Logger	8925.00						
Top Log Interval	0.00						
Bottom Log Interval	8925.00						
Hole Fluid Type	WATER						
Hole Fluid Level	230.00	feet					
Restriction ID	3.875	inches	Gun Type				
Max Recorded Temp	232.00	deg F	Gun Size				
Well Head Pressure	0.00	psi	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	1630		9.625	36.00	0.00	2520.00	
Unit	14115		4.500	11.60	0.00	9051.00	
Equipment Name	WSS-E						
Base	CASPER						
Recorded By	P. MAZUR						
Witnessed By	R. TOMPKINS						

BOREHOLE RECORD			Last Edited: 24-MAR-2018 22:50
Bit Size inches	Depth From feet	Depth To feet	
14.750	0.00	2550.00	
8.750	2550.00	9099.00	
CASING / TUBING RECORD			
Type	Grade	TypeJoint	Weight pounds/ft
SURFACE	J-55		36.00
PRODUCTION	P-110		11.60

REMARKS
SOFTWARE VERSION 18.01.5248 - COMMERCIAL VERSION
ALL DEPTH CONTROL PROCEDURES FOR SUBSEQUENT RUN IN HOLE WERE FOLLOWED. LOG WAS CORRELATED TO WEATHERFORD PULSED NEURTON LOG DATED 24-APR-2018
SHORT JOINT LOCATED AT 6338' - 6345"
SURFACE SYSTEM USED: WCM-D 160
TOOLS RUN: CENA, CTBA, GRBA, CENB, SBTA, CENA WERE RAN IN COMBINATION
PREDICTED 3' AMPLITUDE FOR 4.5" WITH 11.6 LB/FT CASING: 81 mv
FREE PIPE CALIBRATION DONE AT 340 FT
FLUID TOP @ 230'

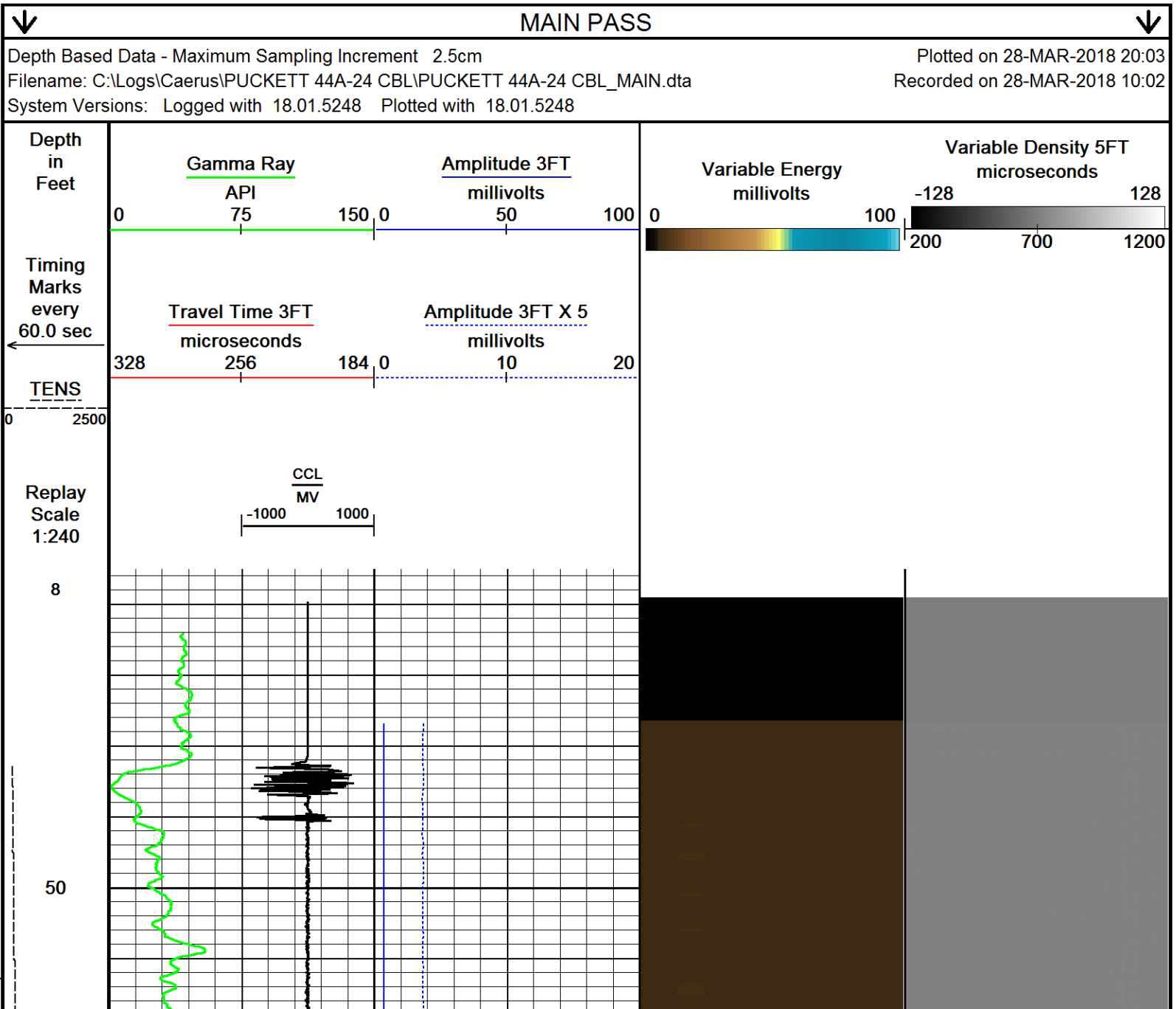
UNKNOWN CEMENT CLASS DUE MISSING DATA FROM CLIENT

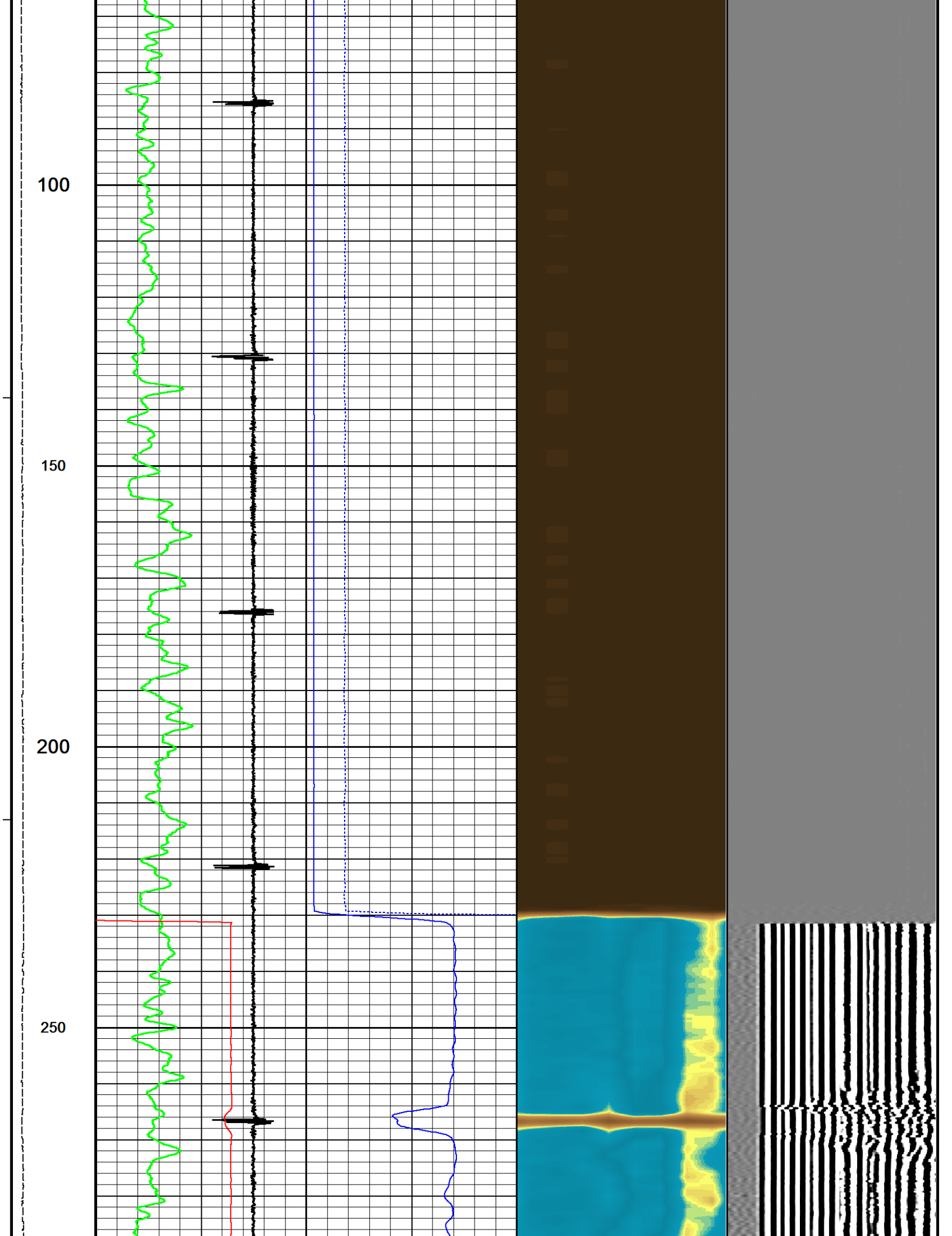
UNKNOWN CEMENT JOB ENDED TIME DUE TO MISSING DATA FROM CLIENT

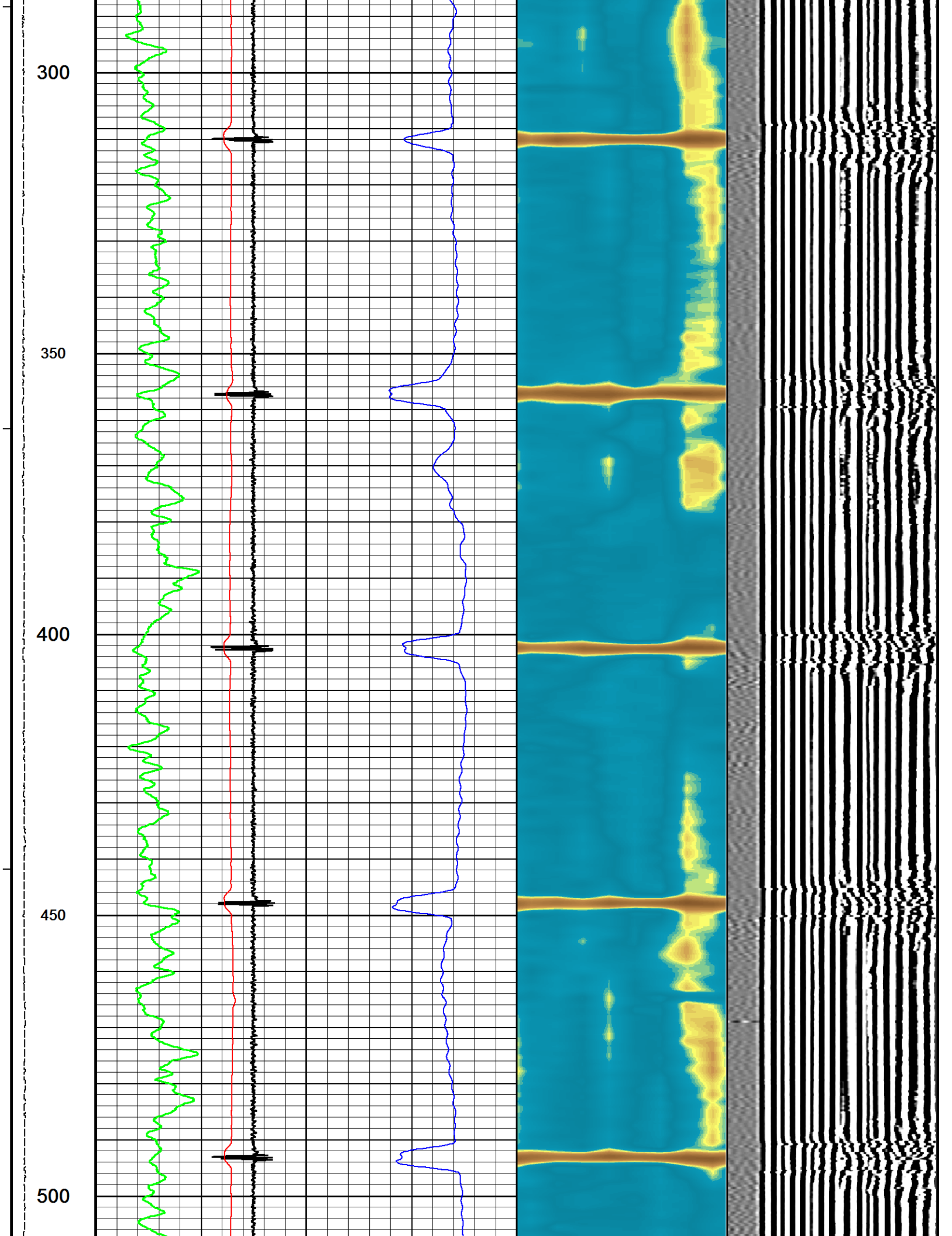
BOTTOM HOLE TEMPERATURE WAS DEG. 232F

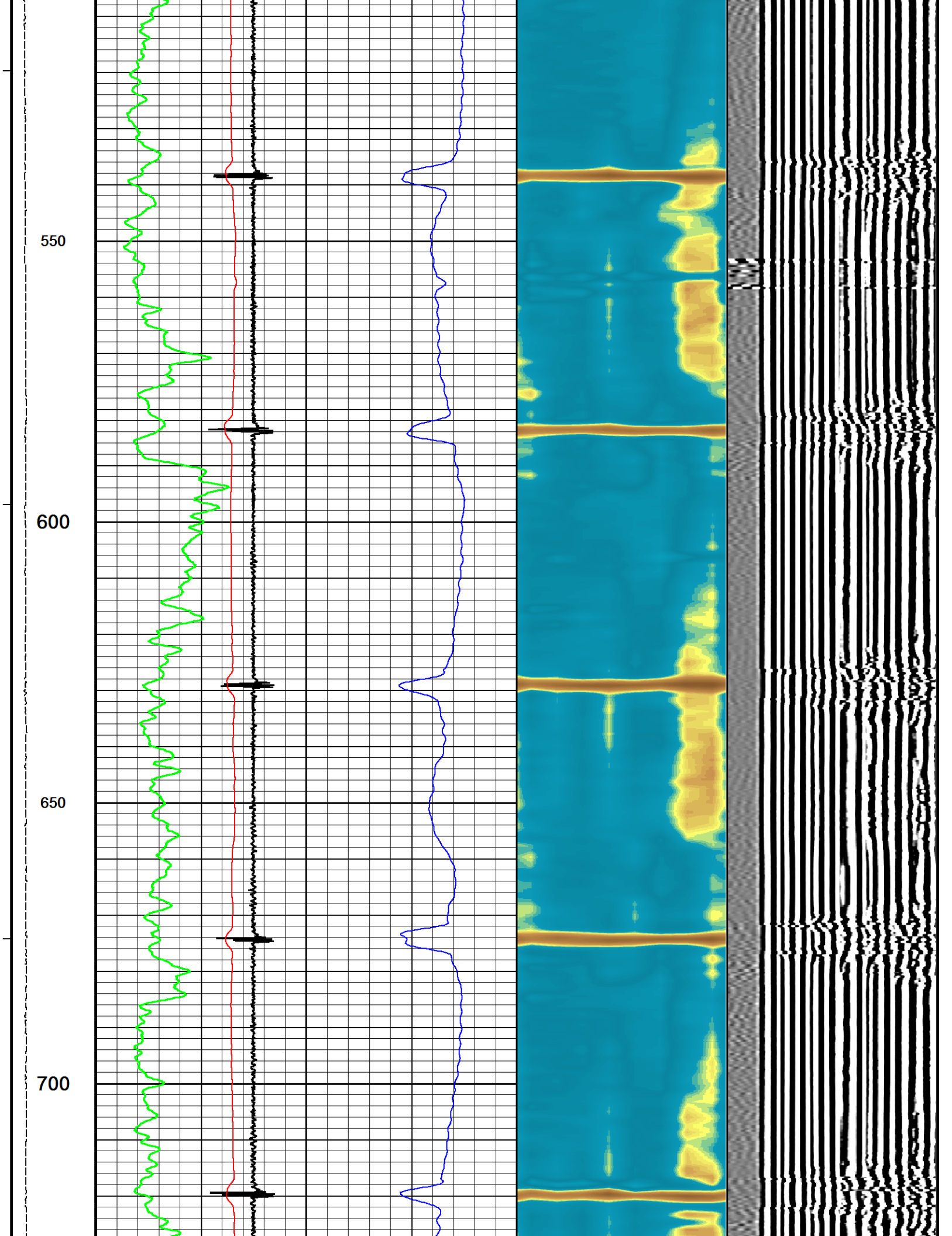
CREW: PAUL MAZUR, MANNY MENDEZ, JEREMY STEWART

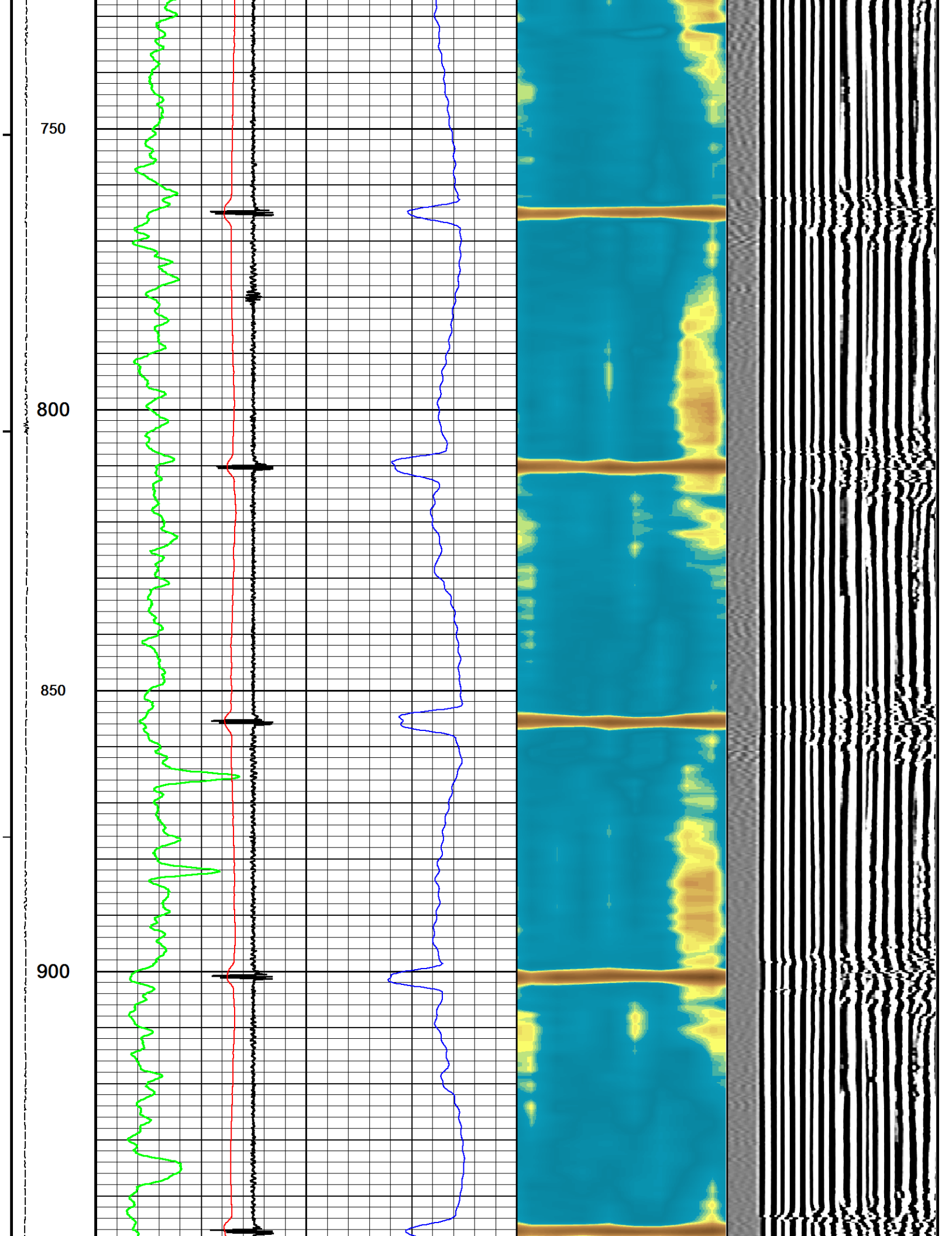
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

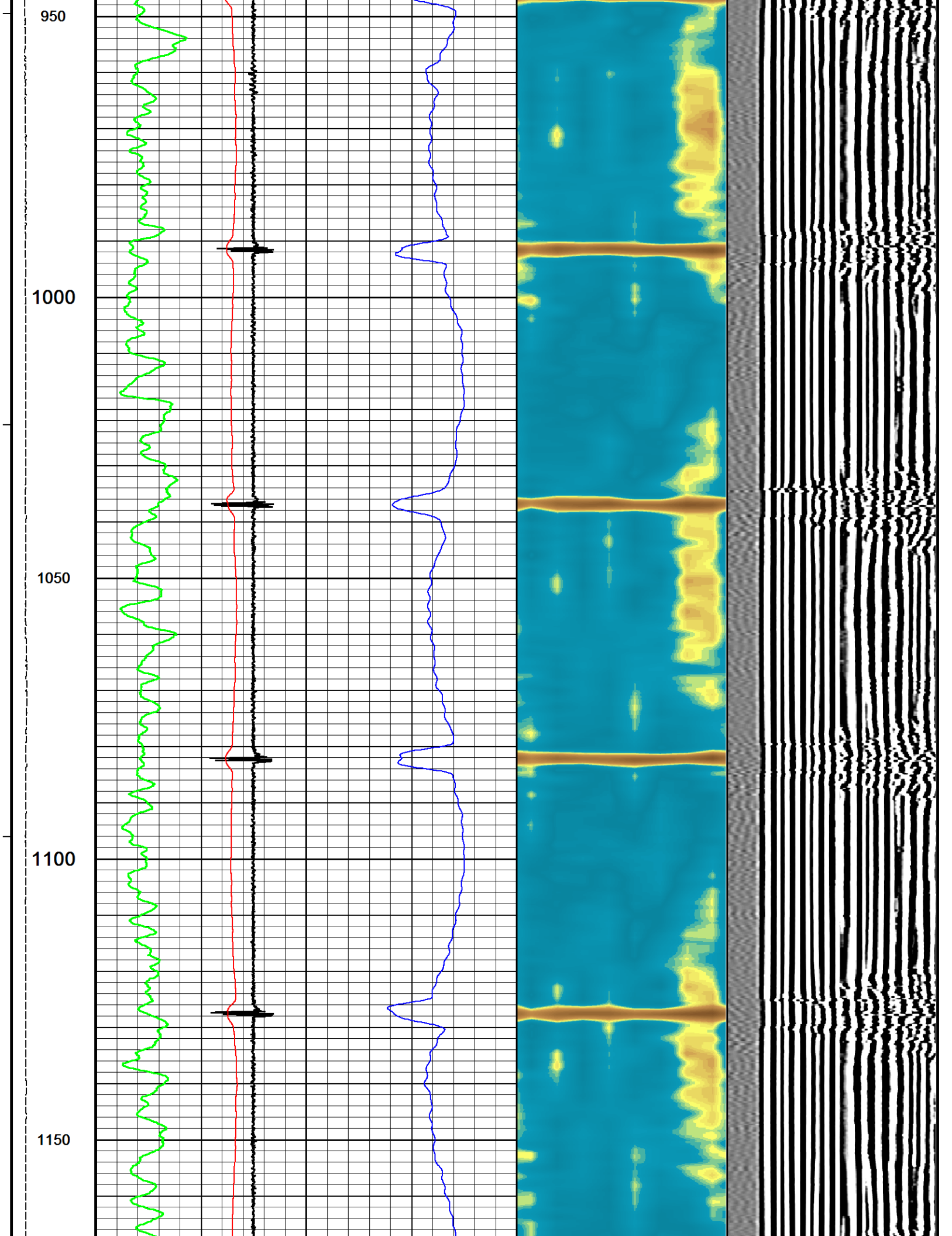


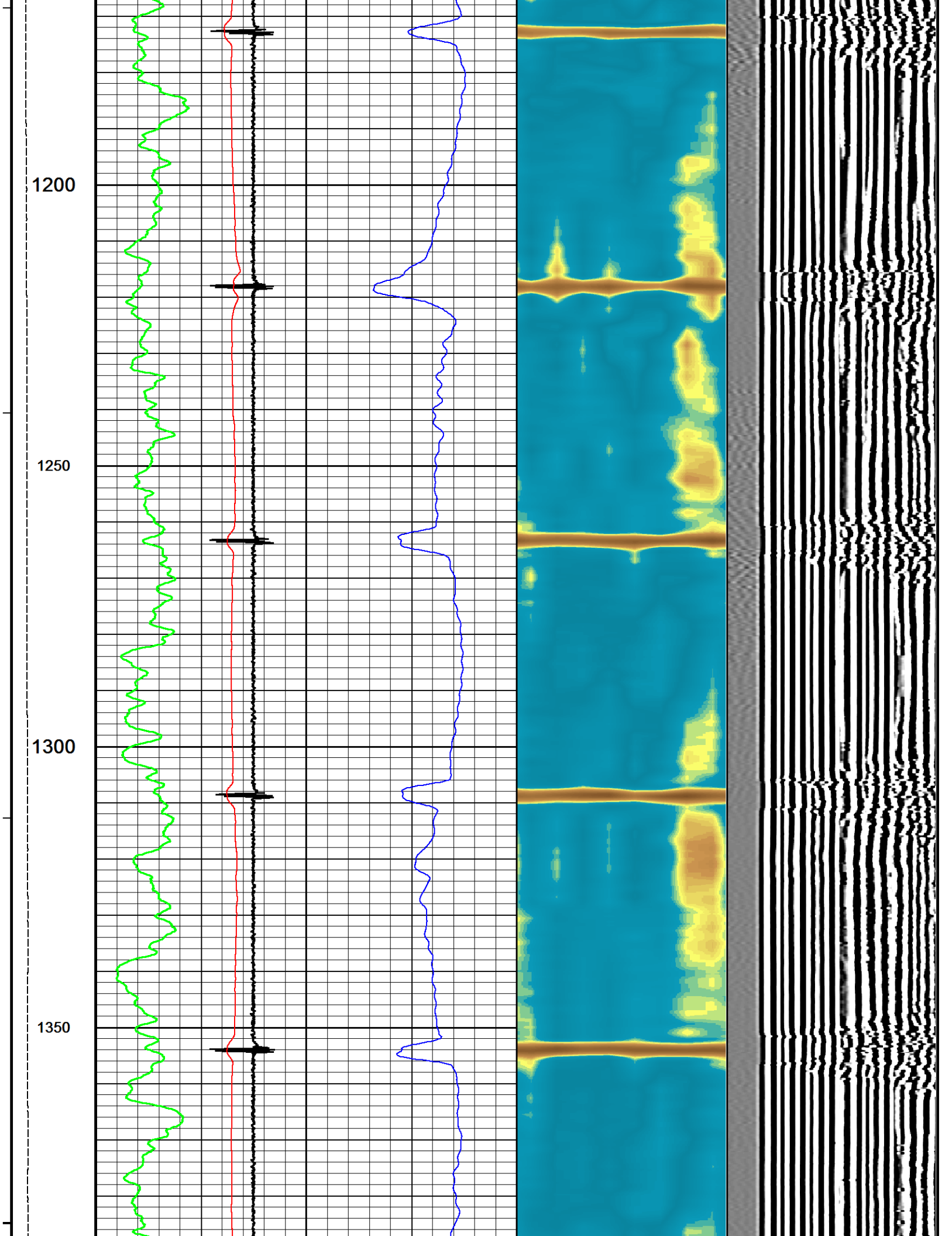


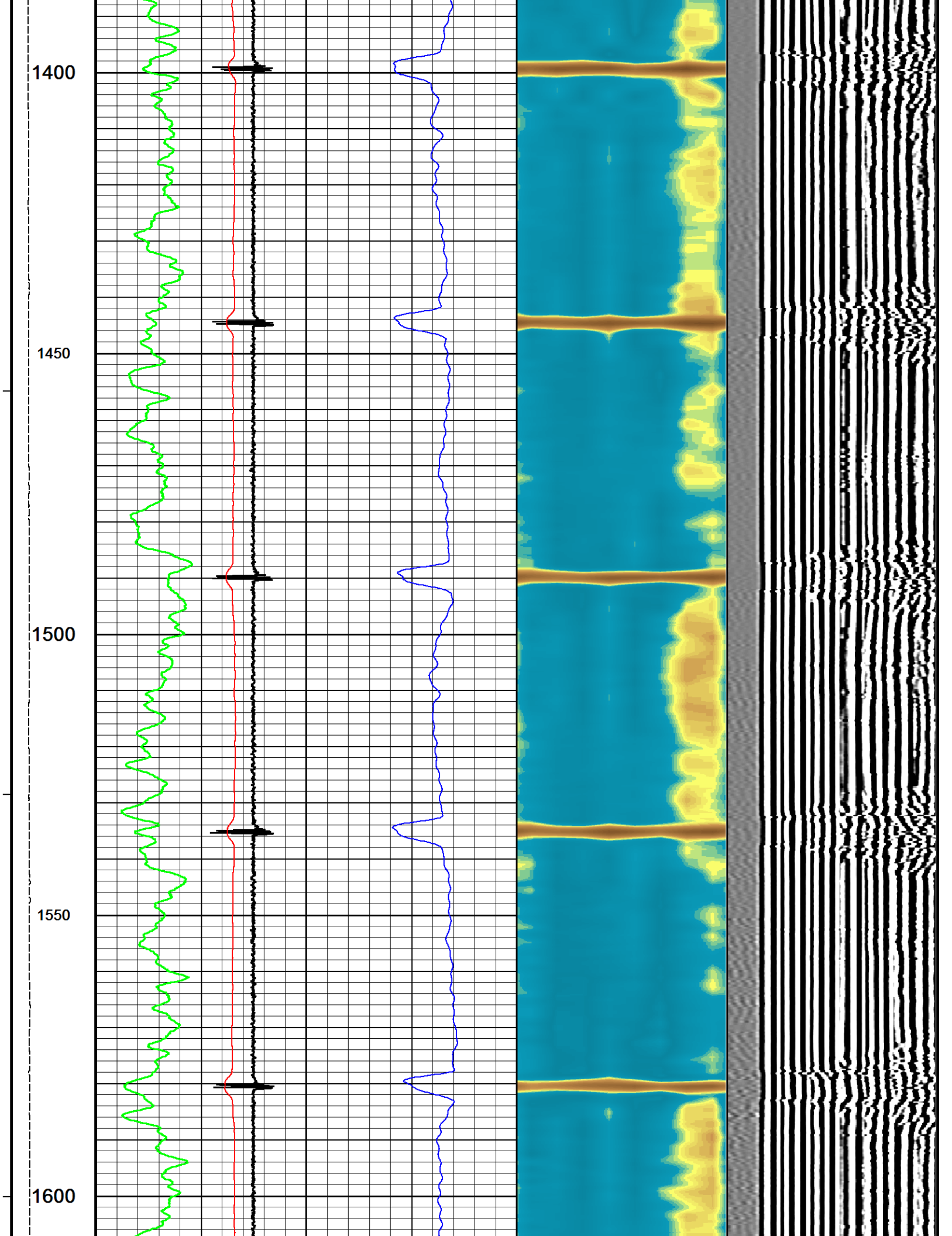


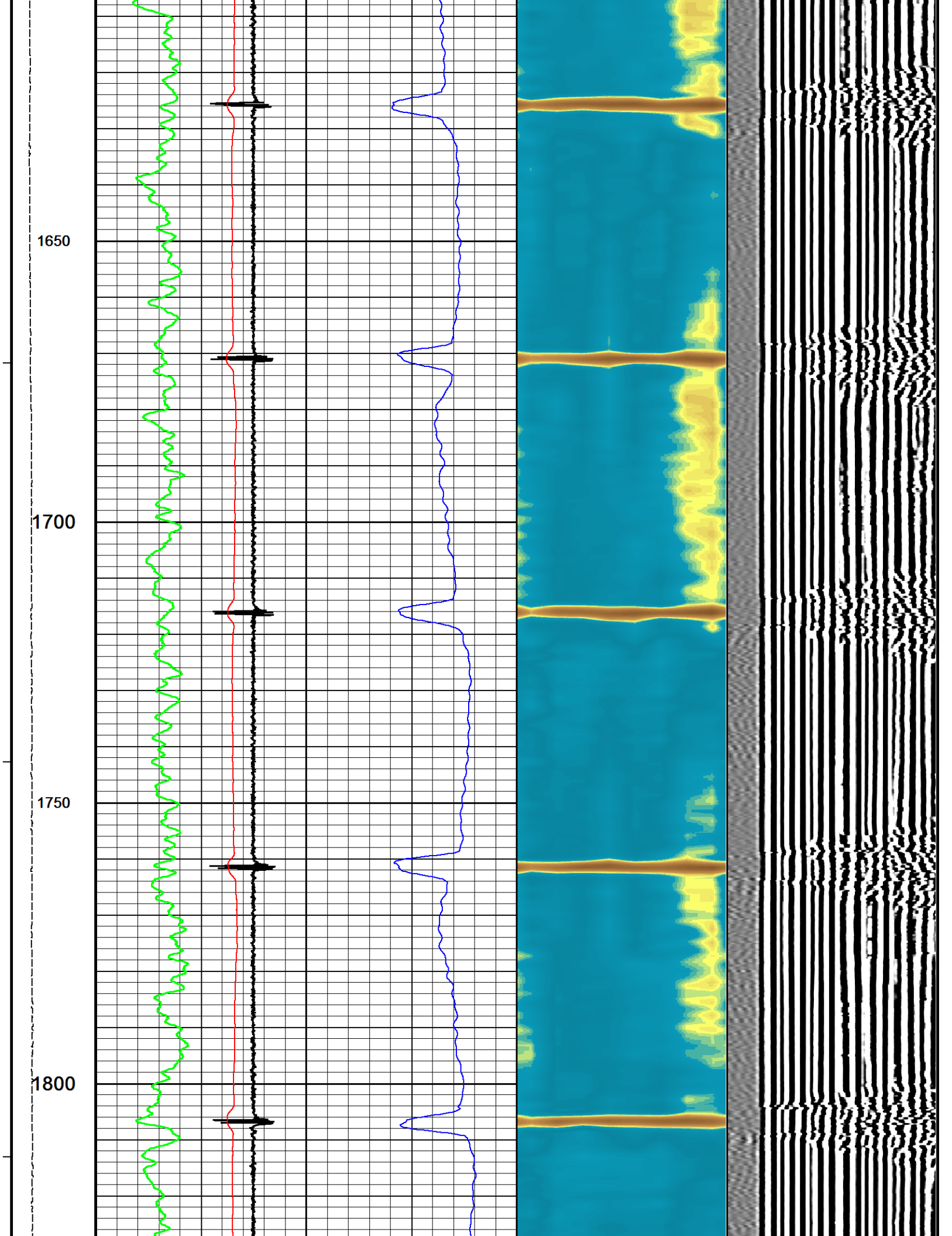


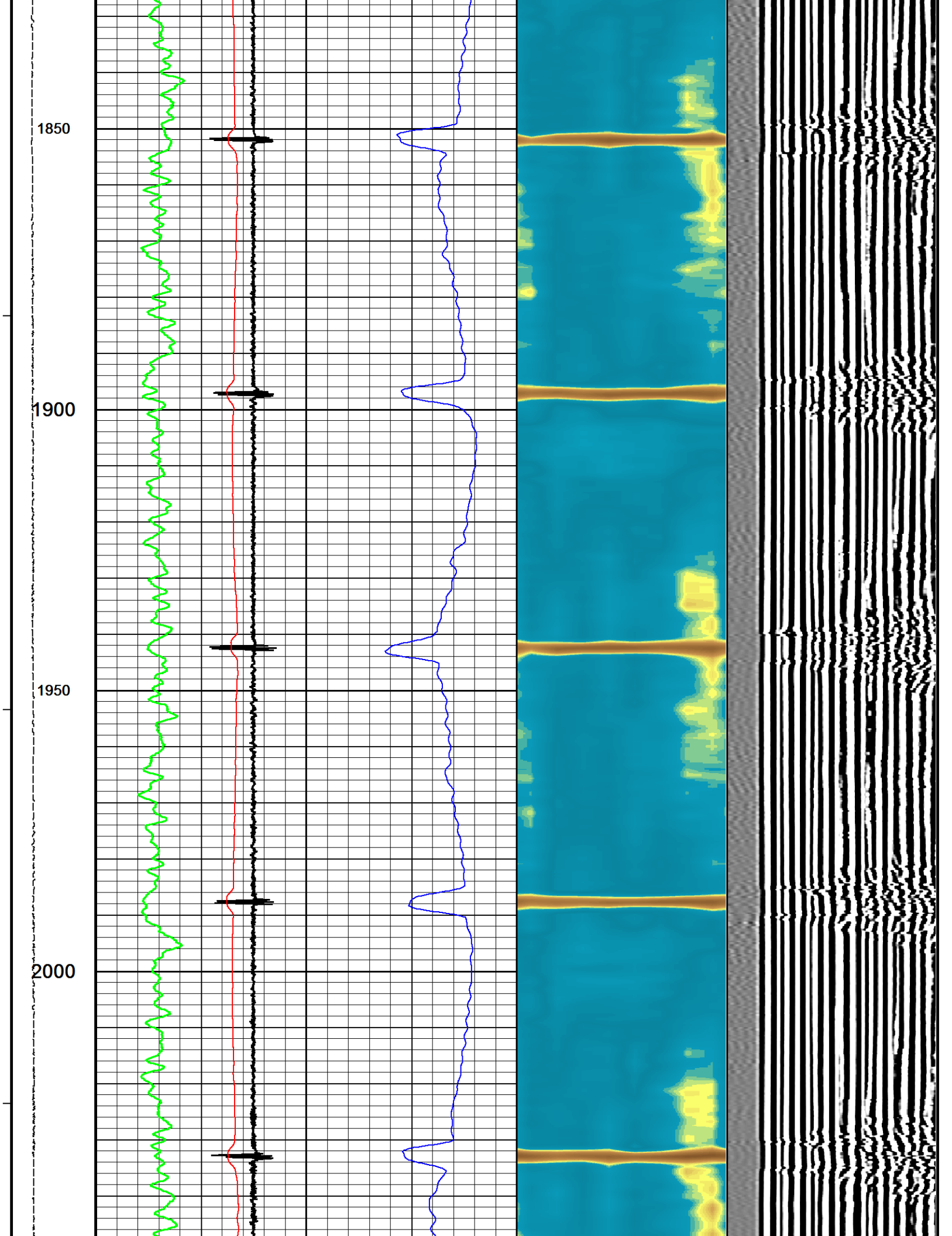


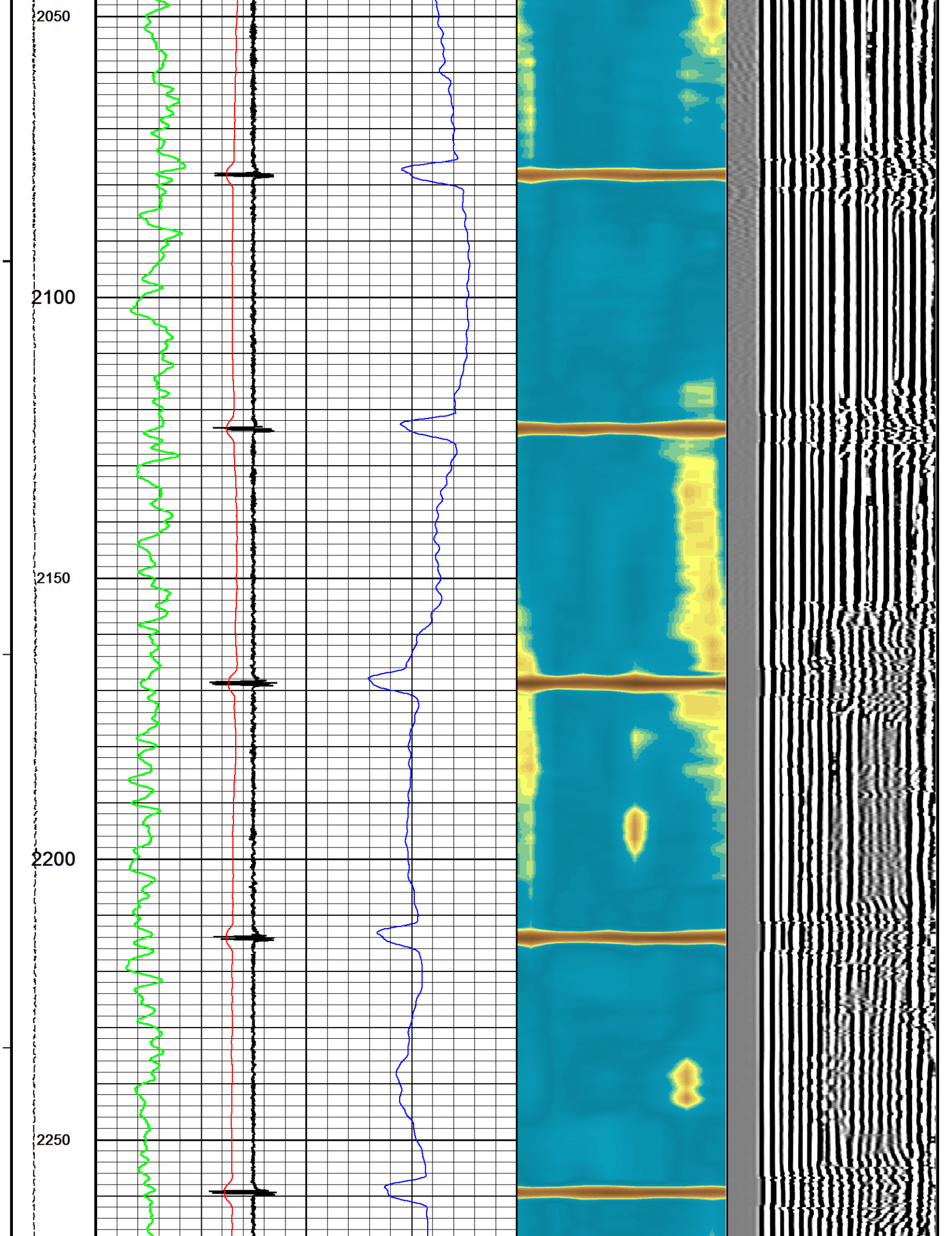


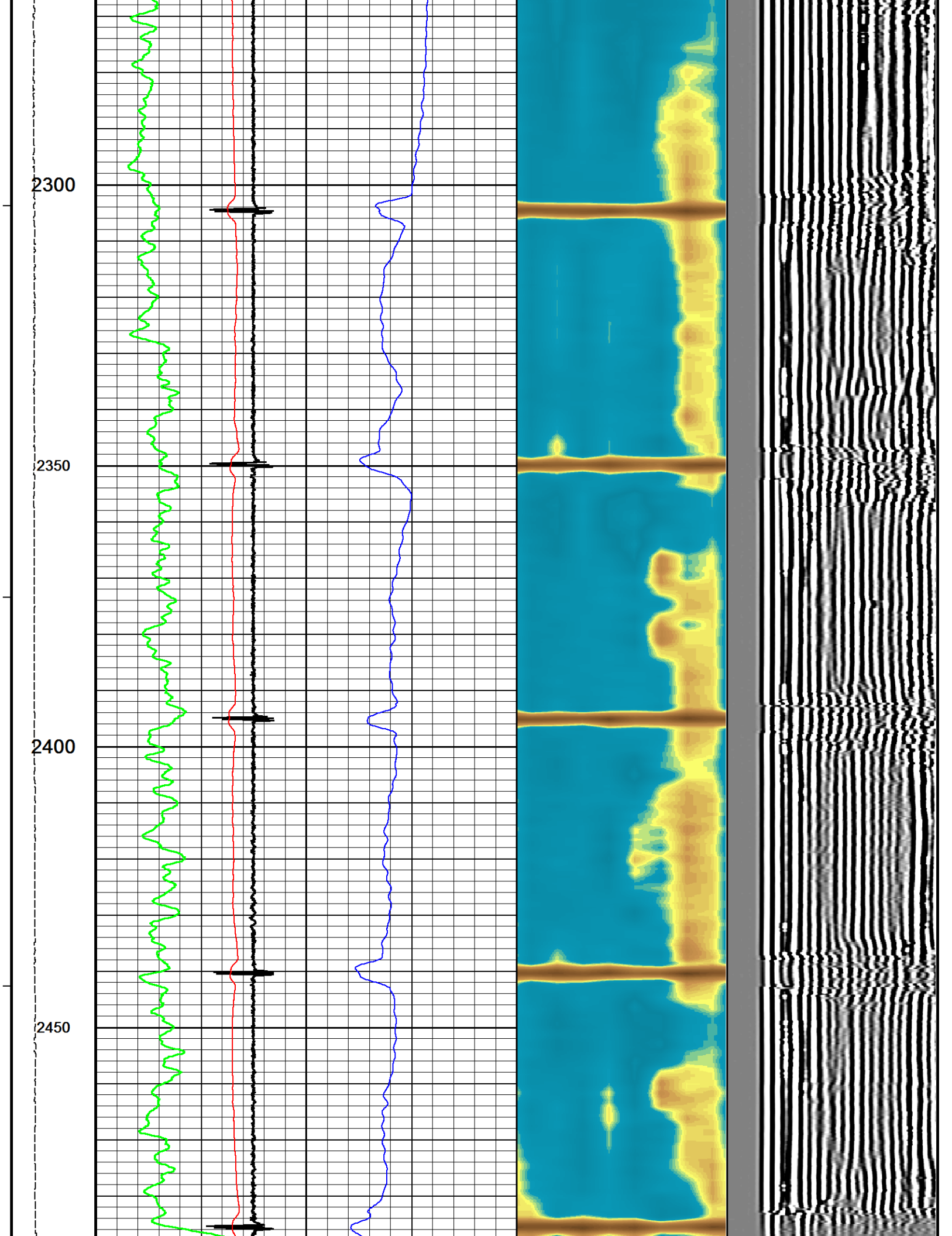


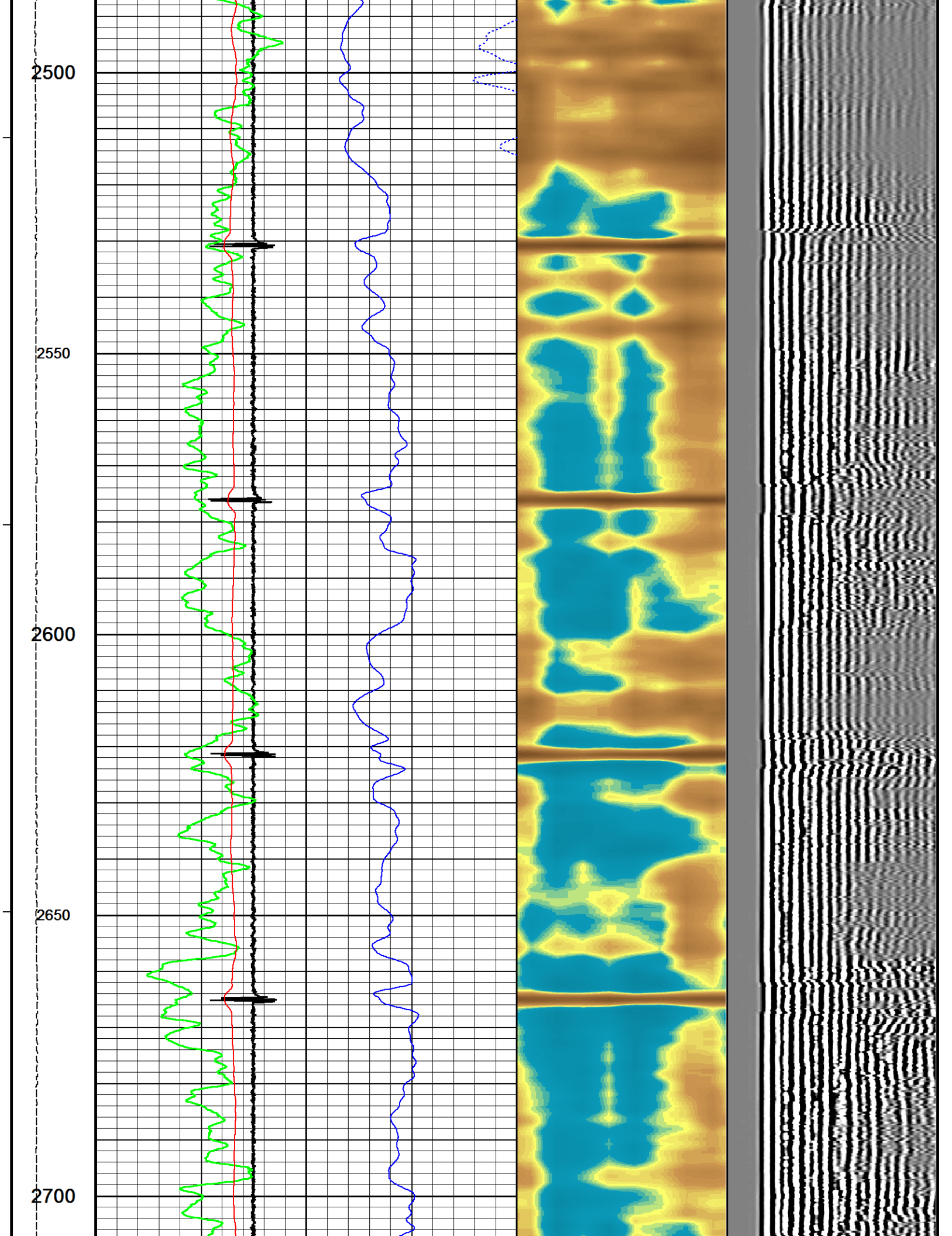


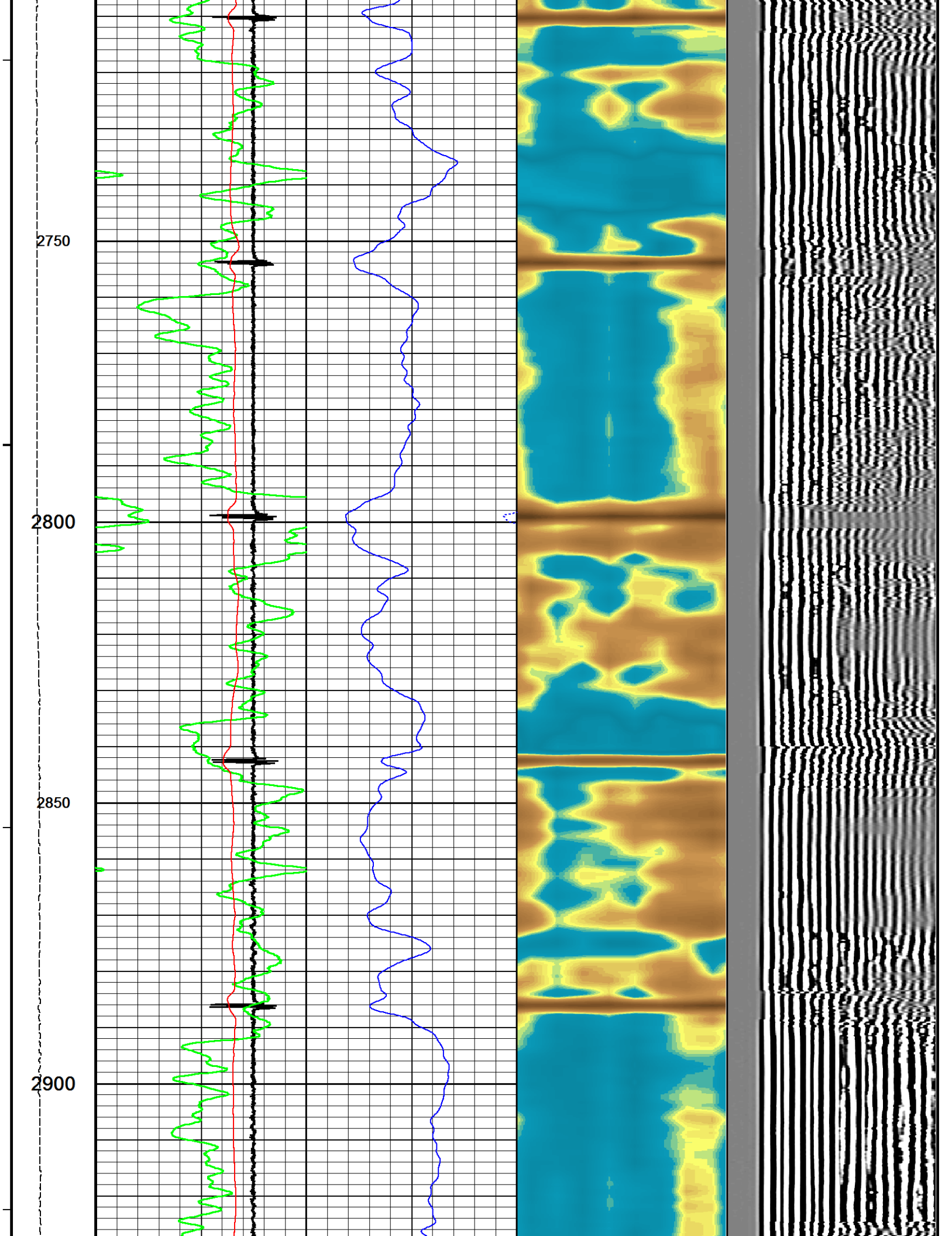


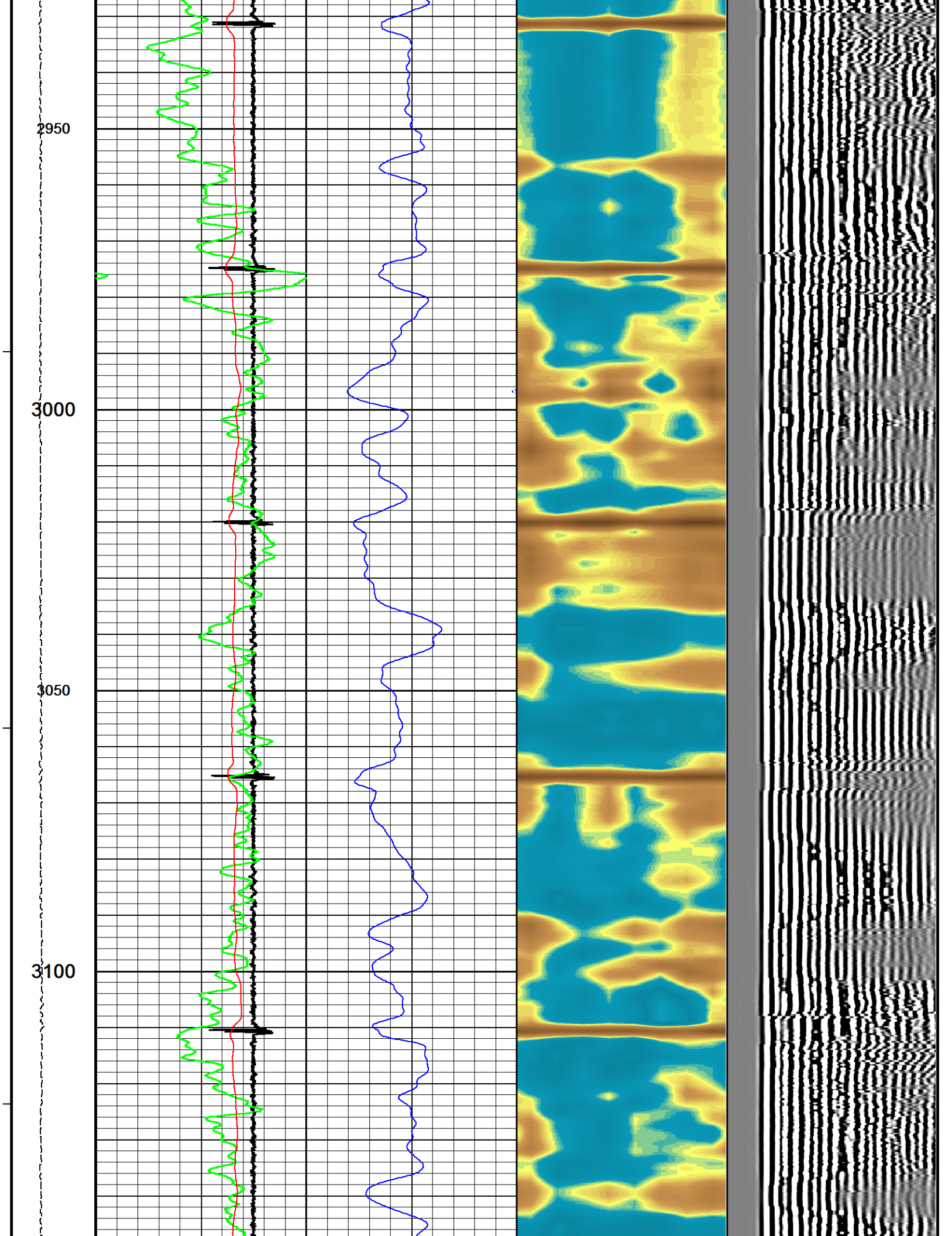


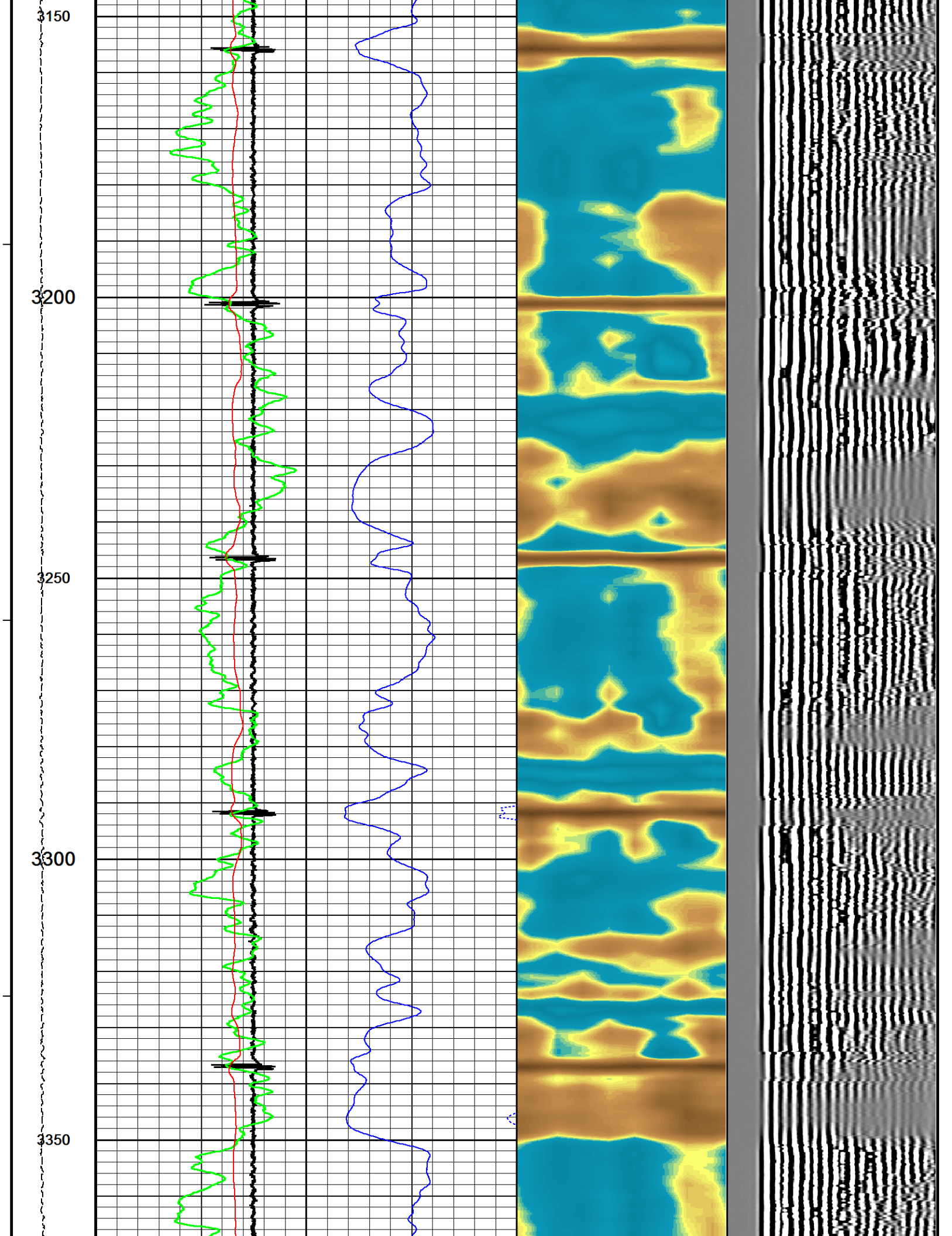


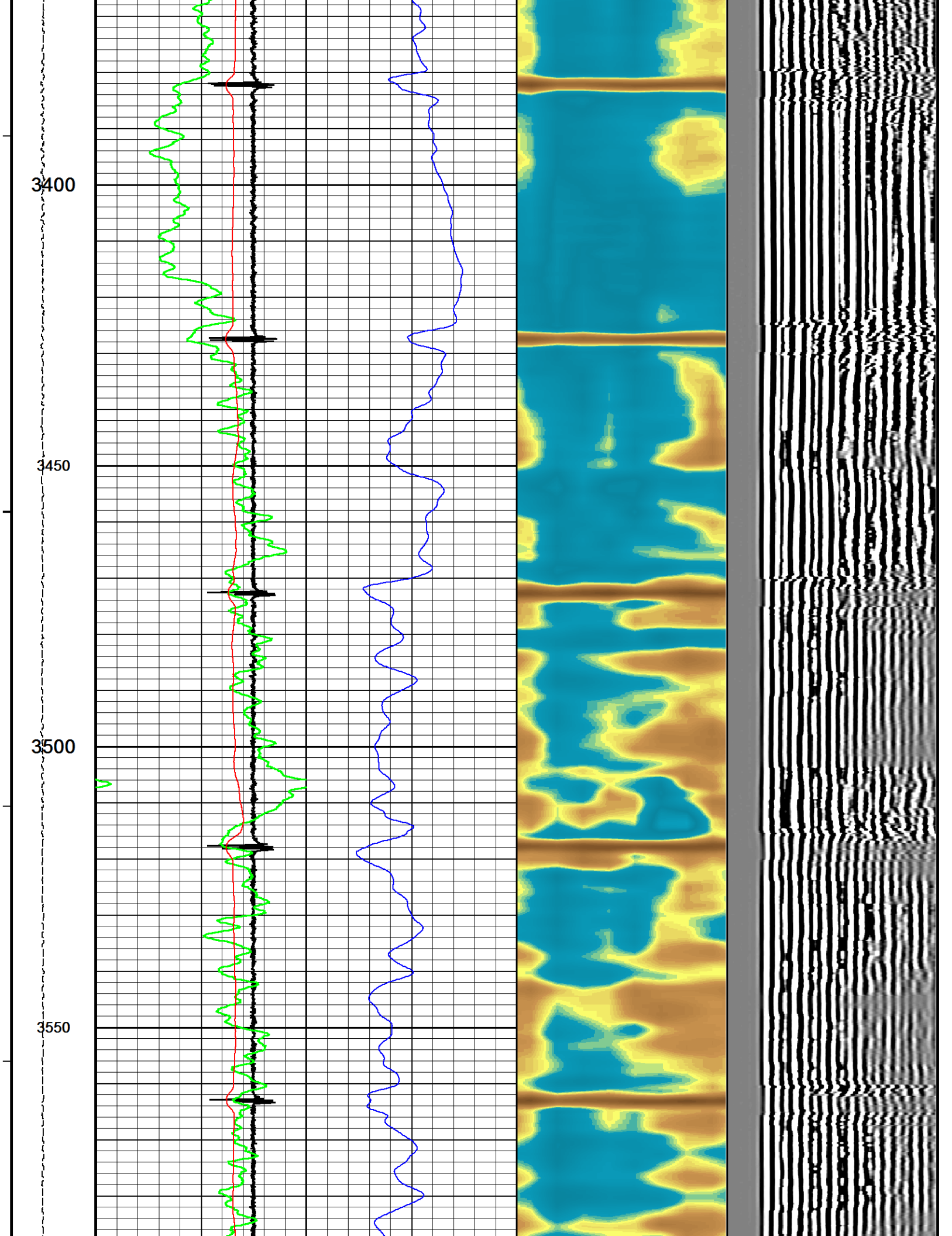


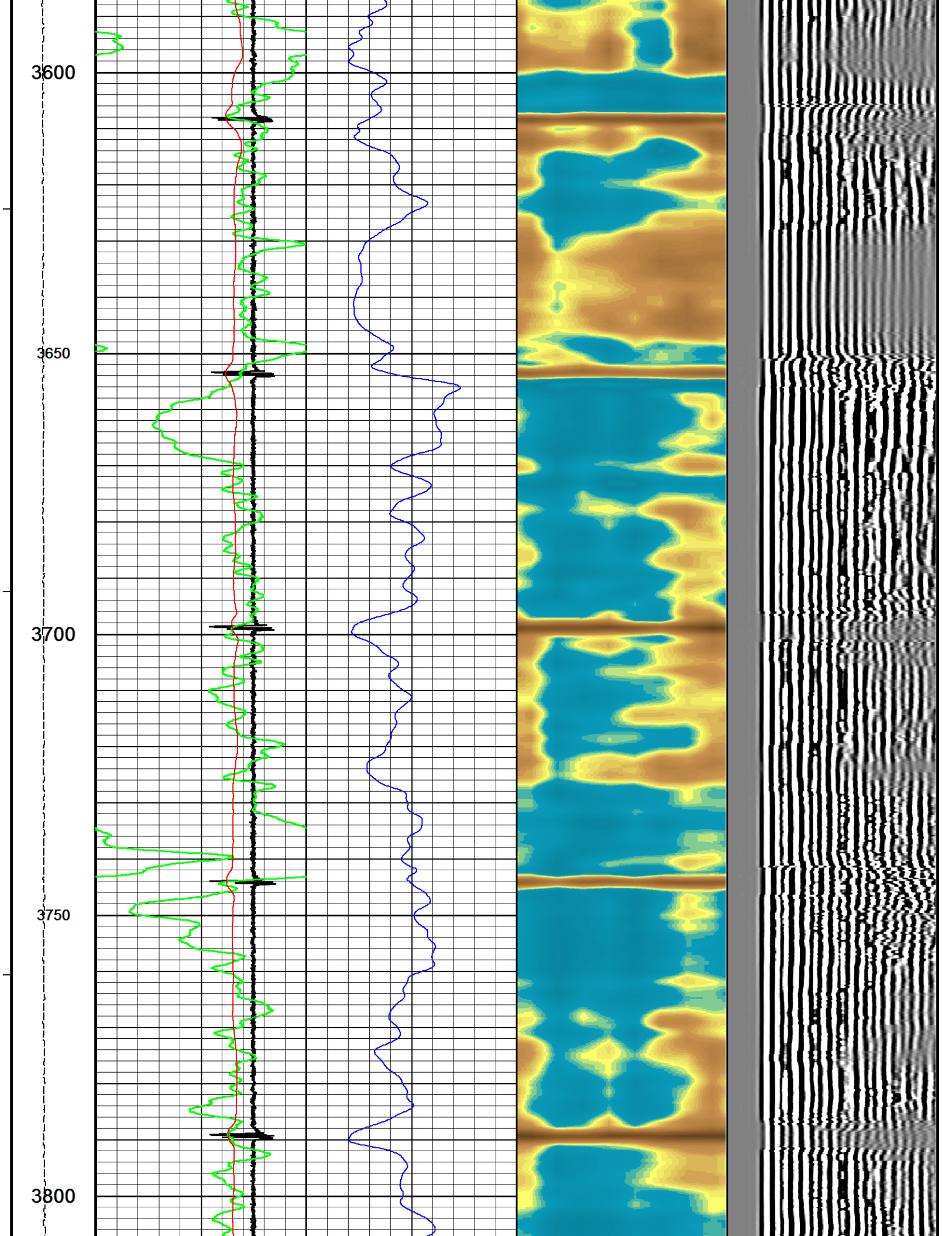


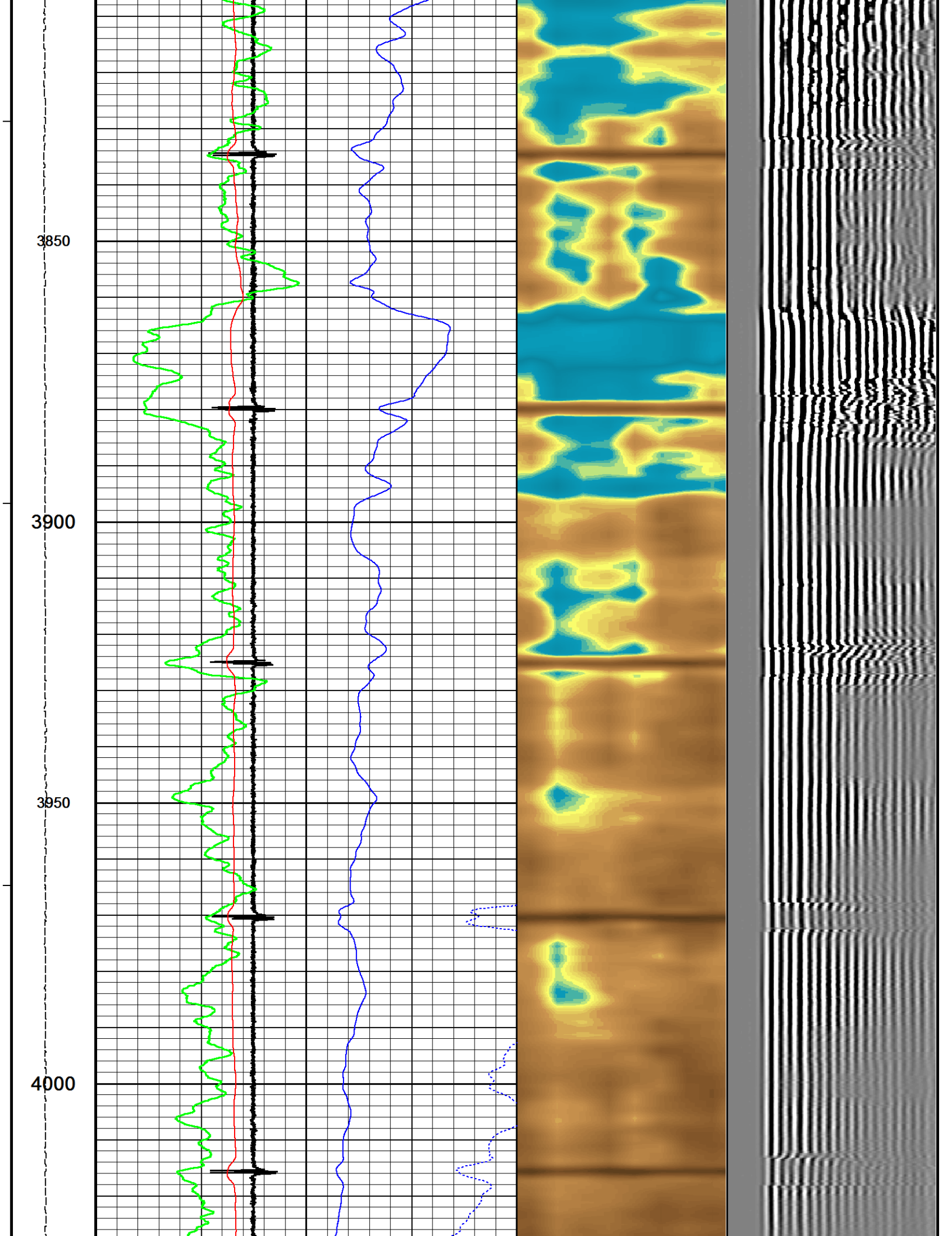


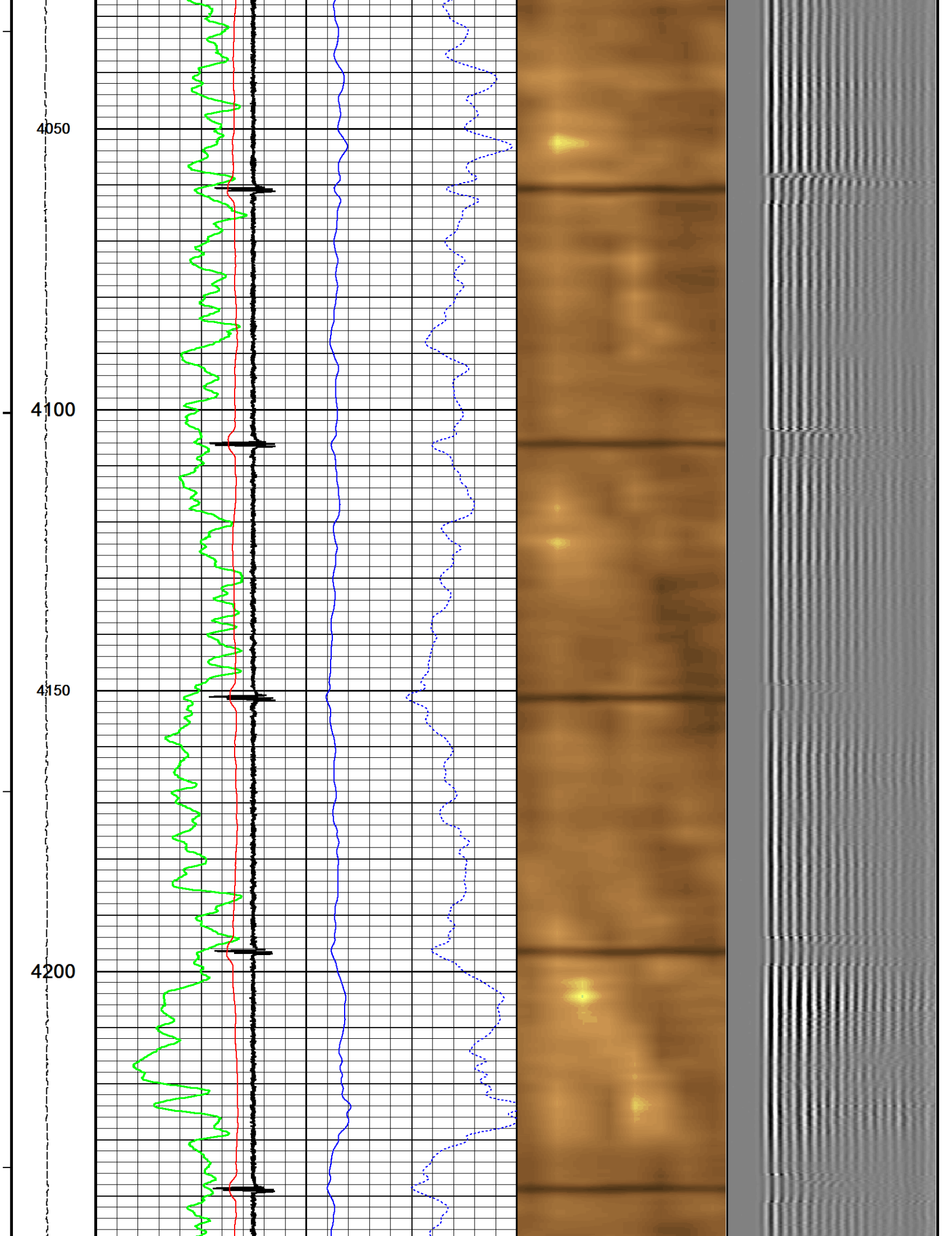


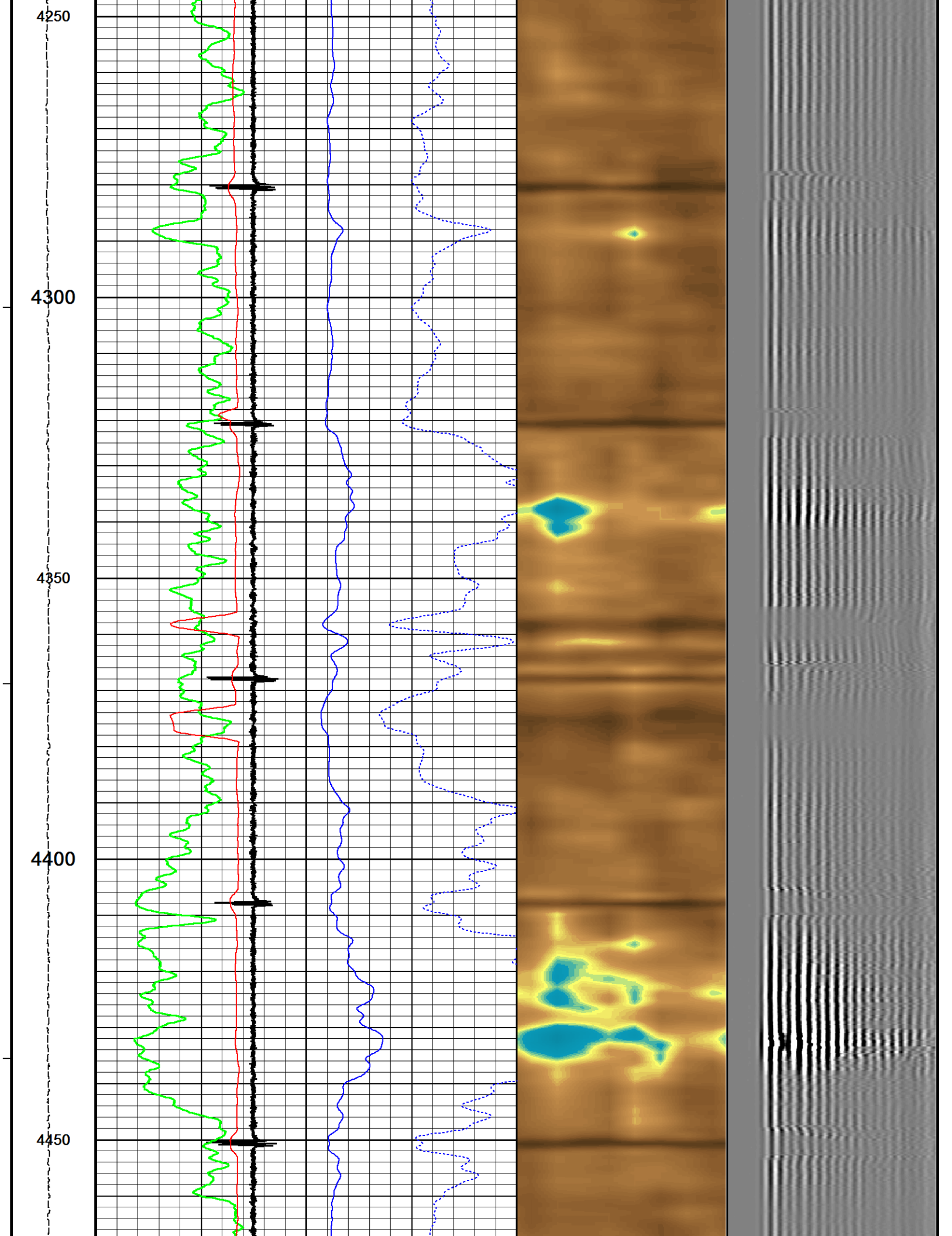


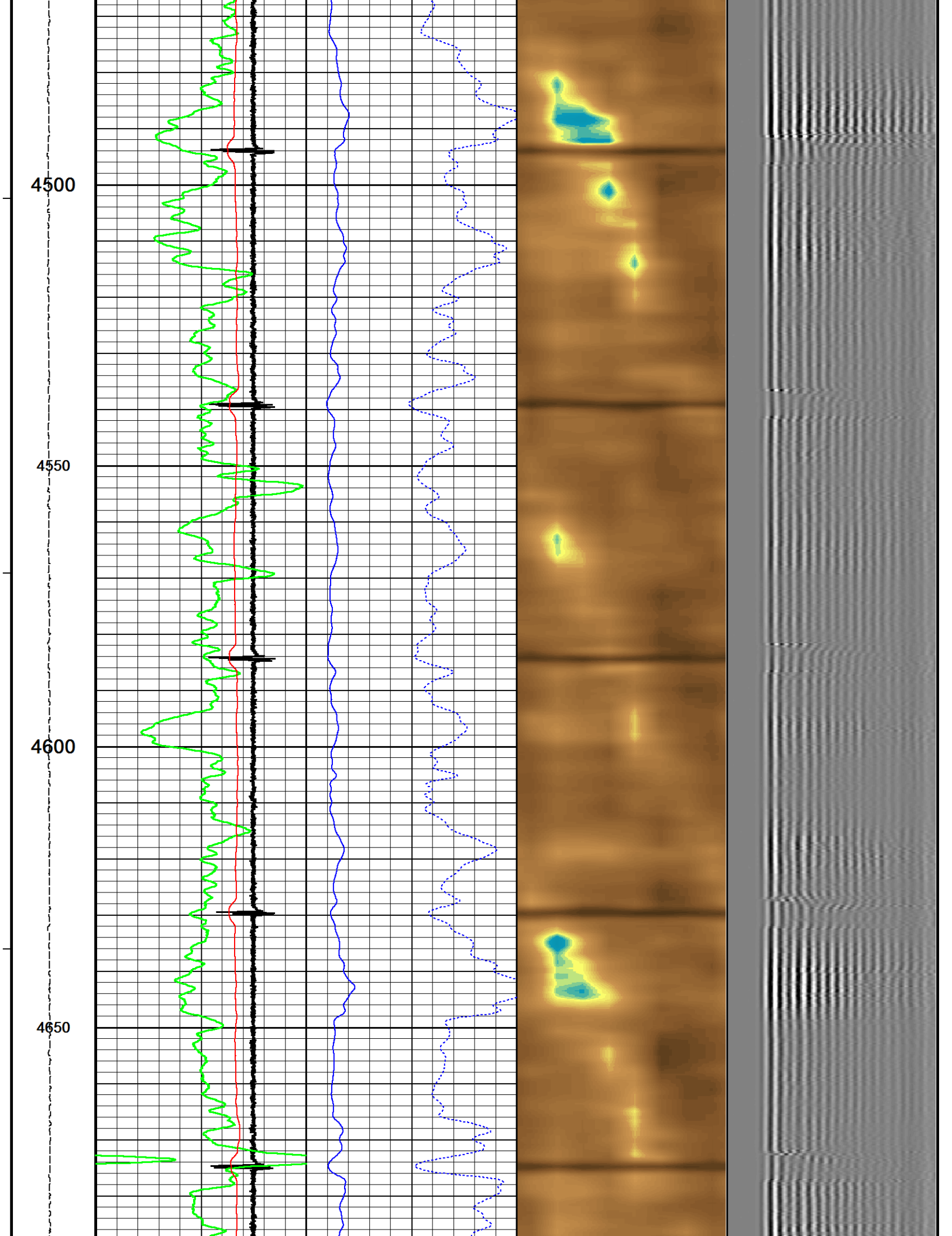


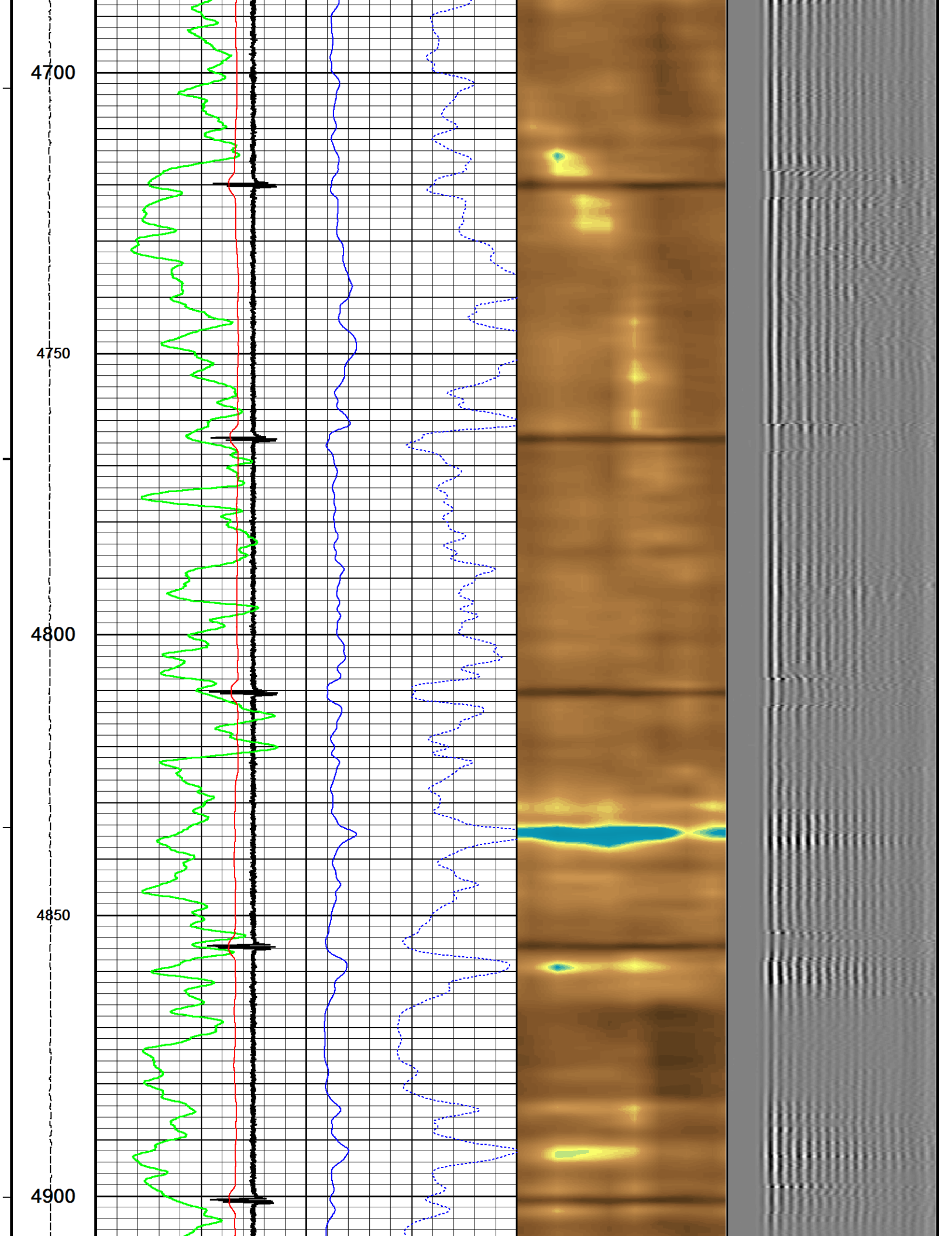


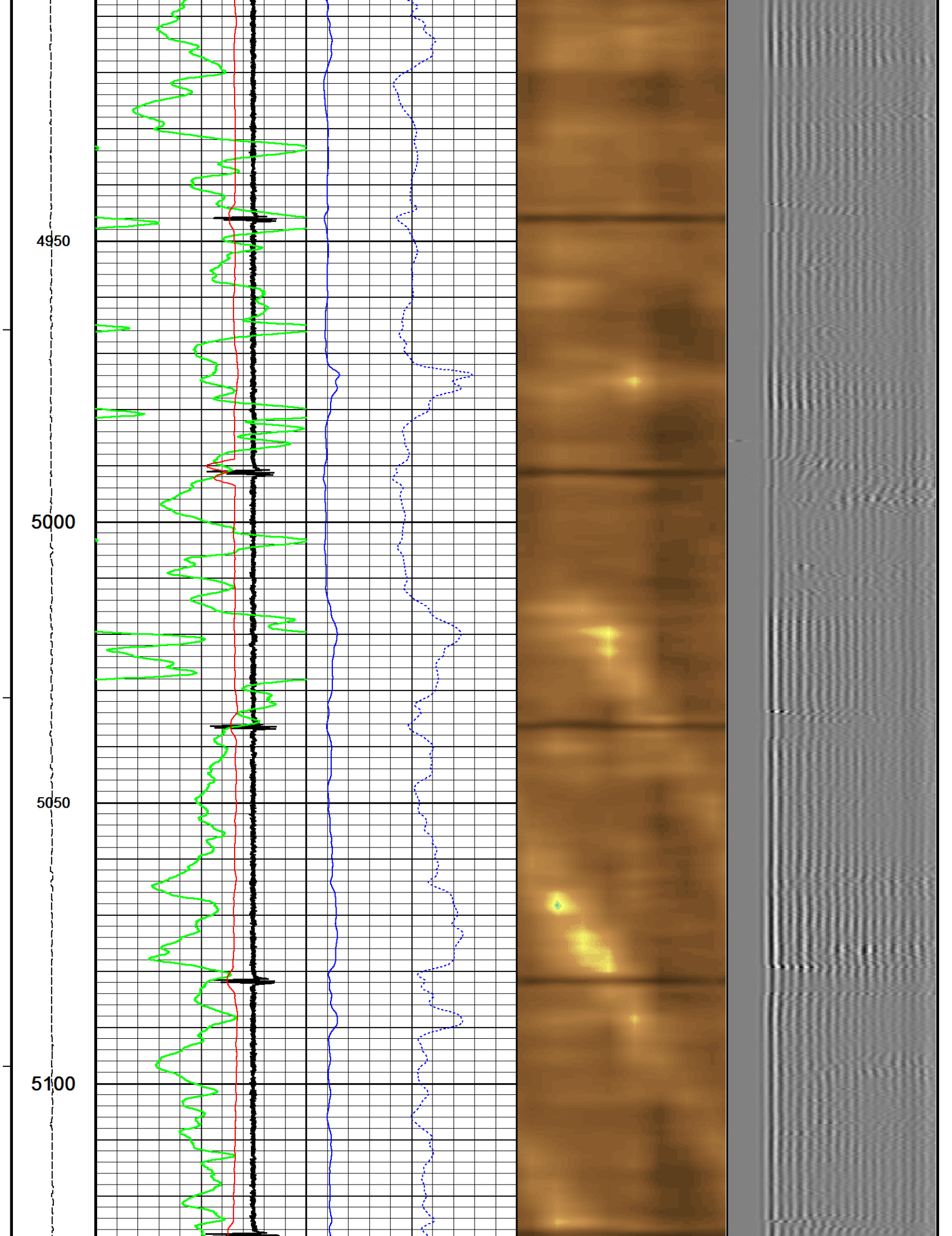


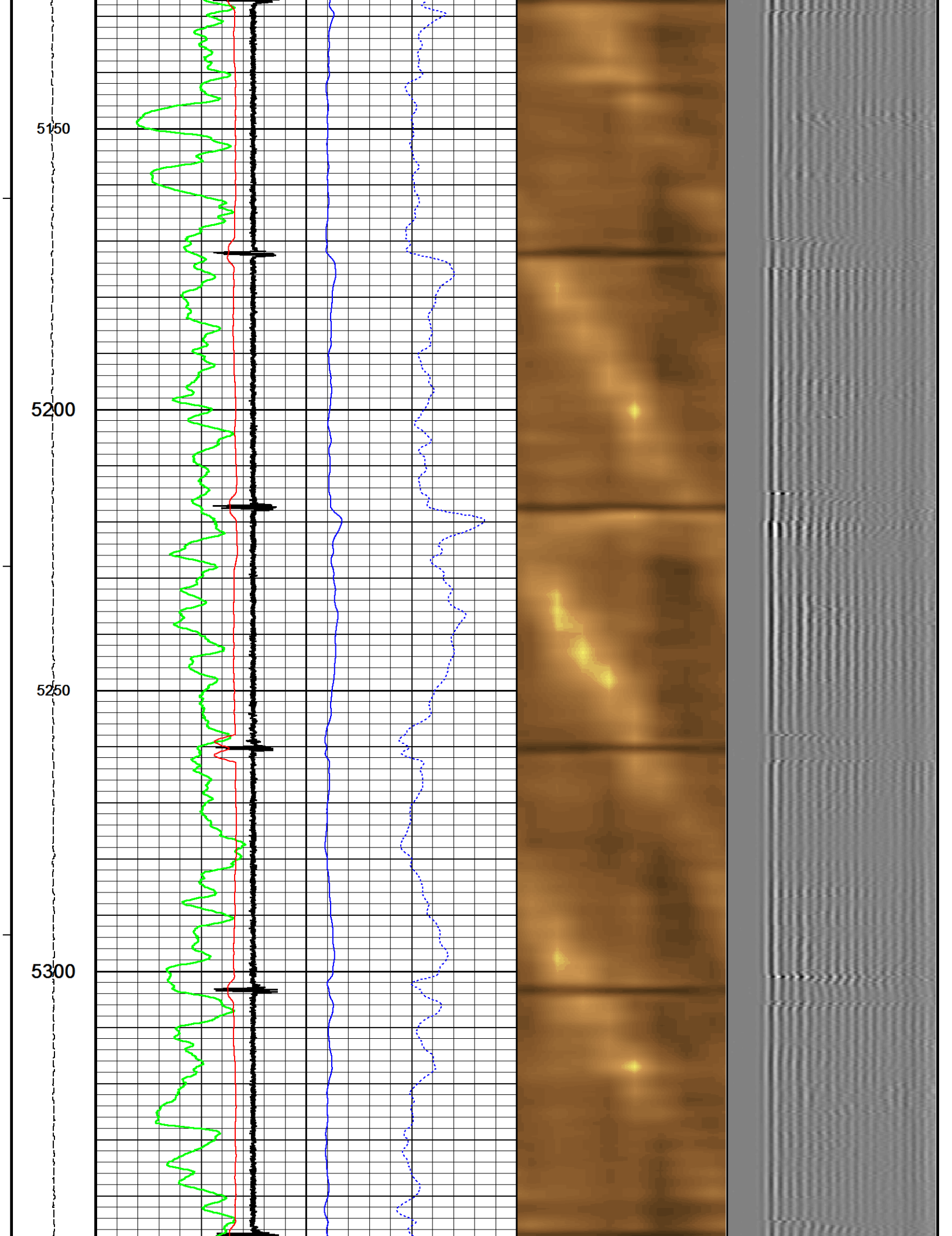


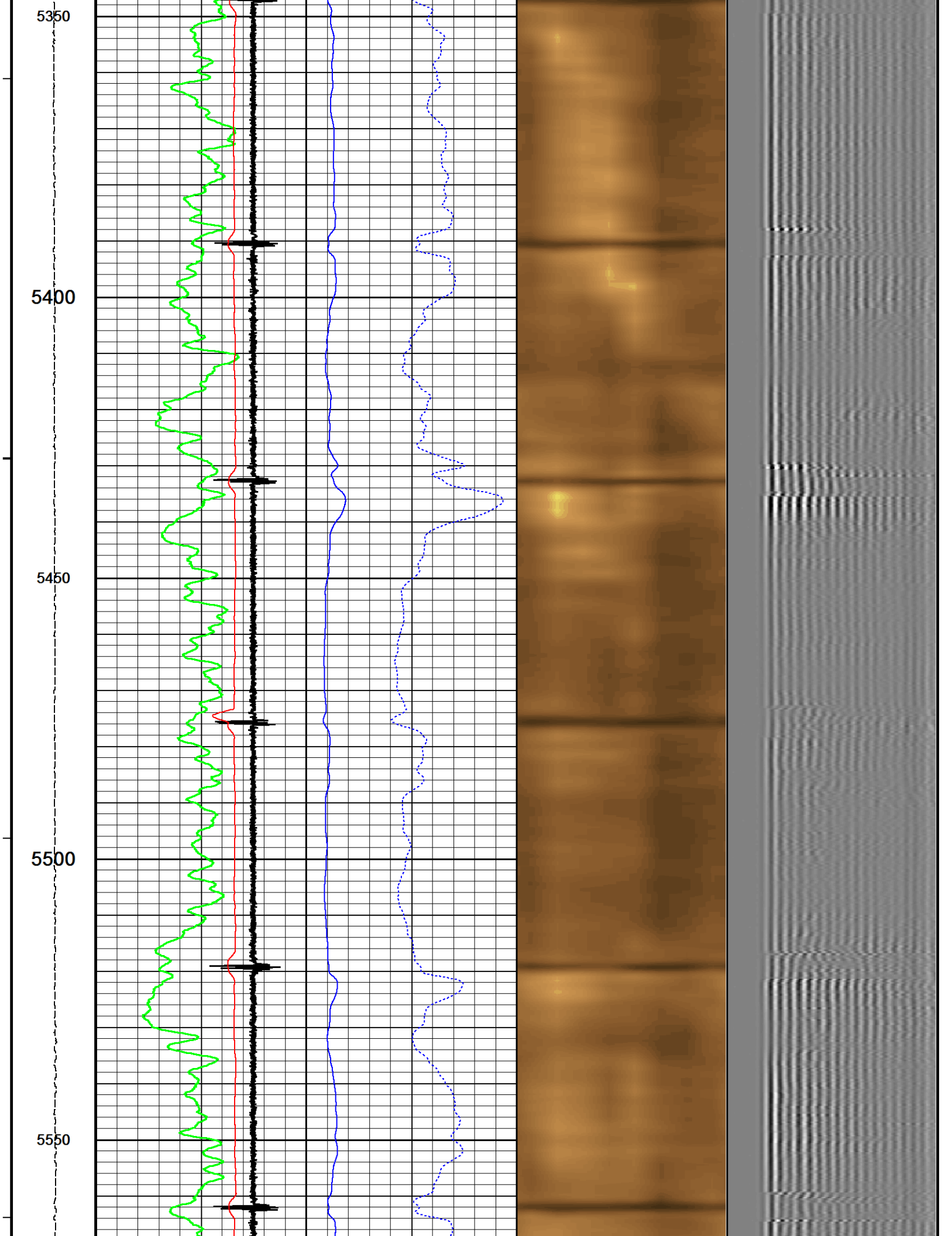


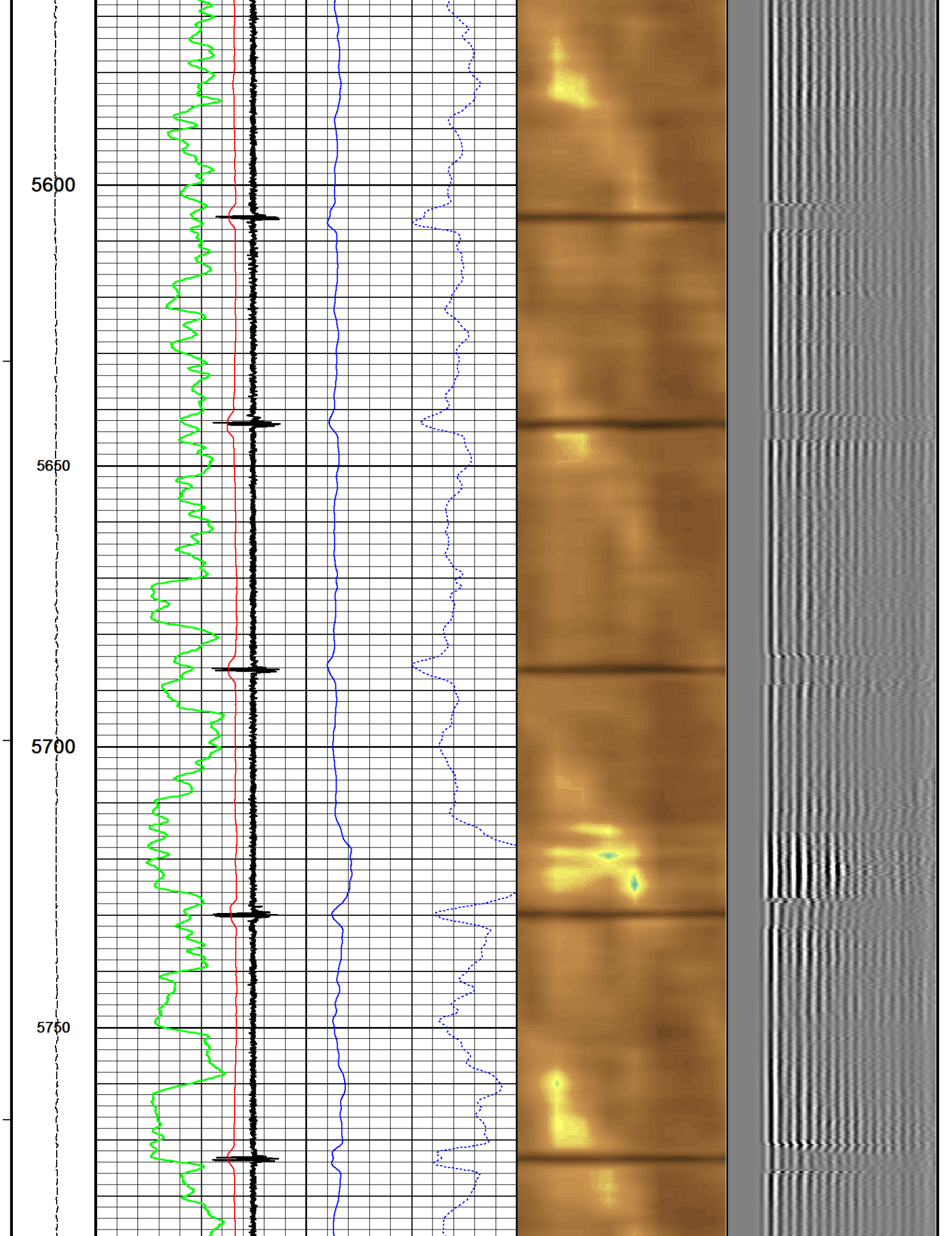


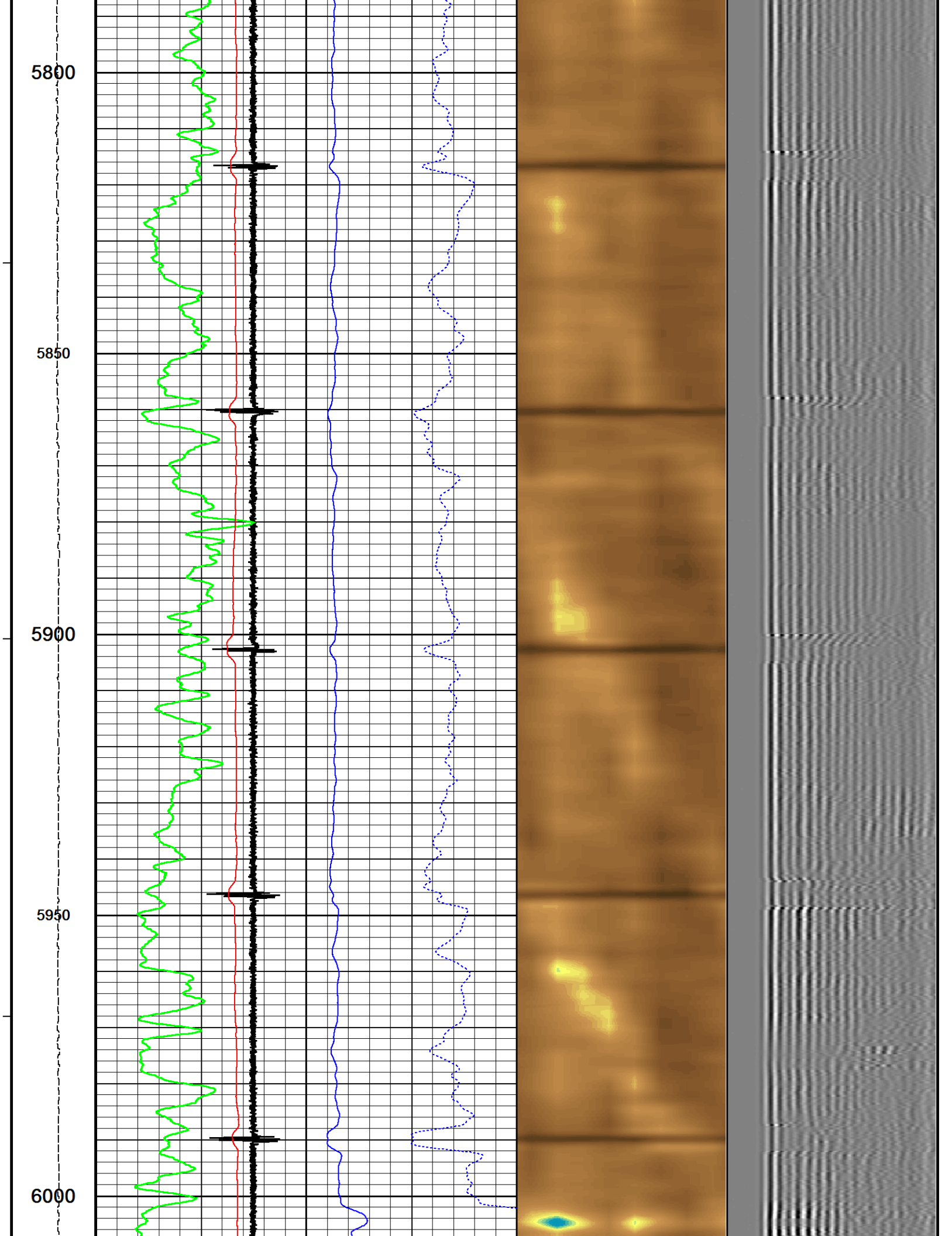


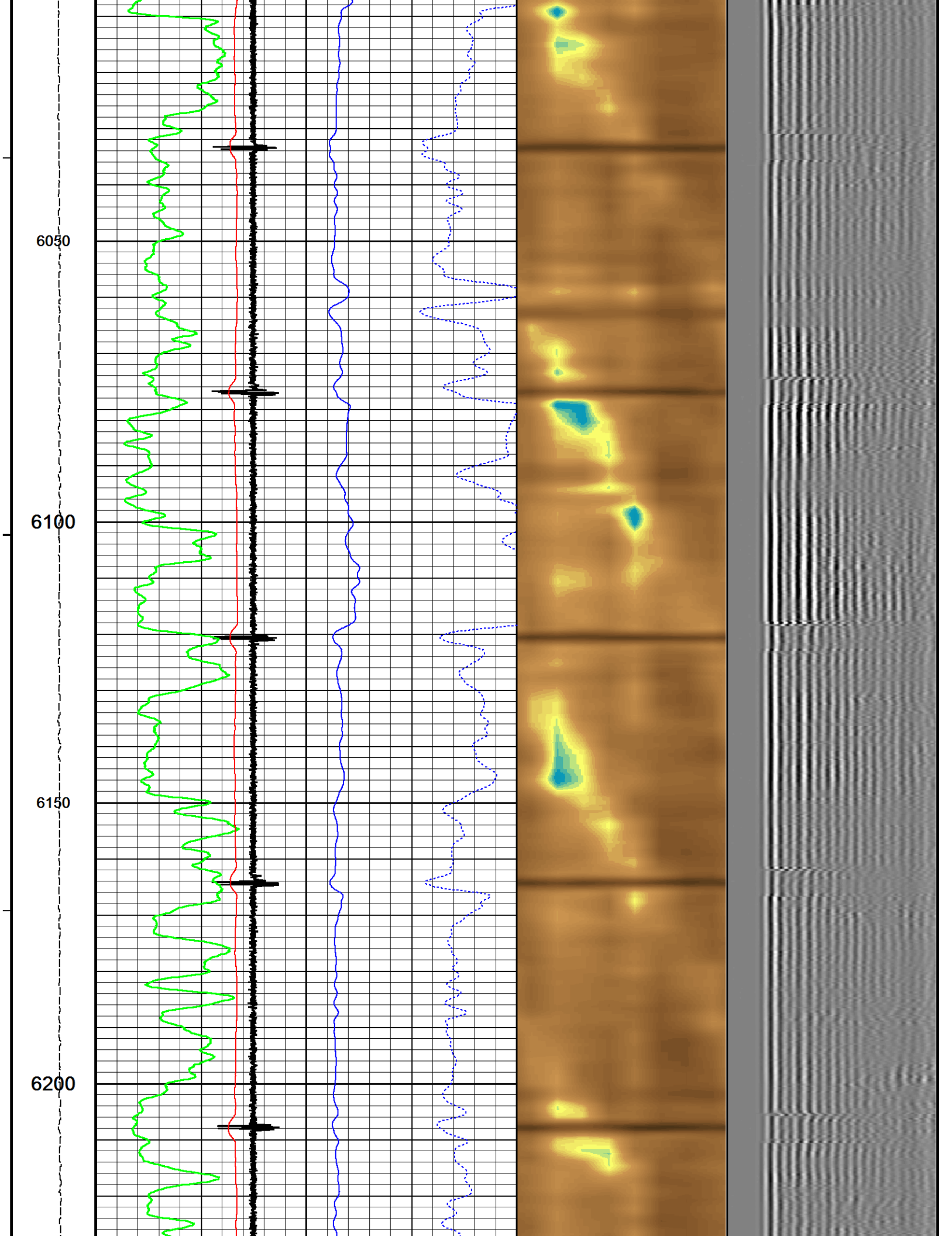


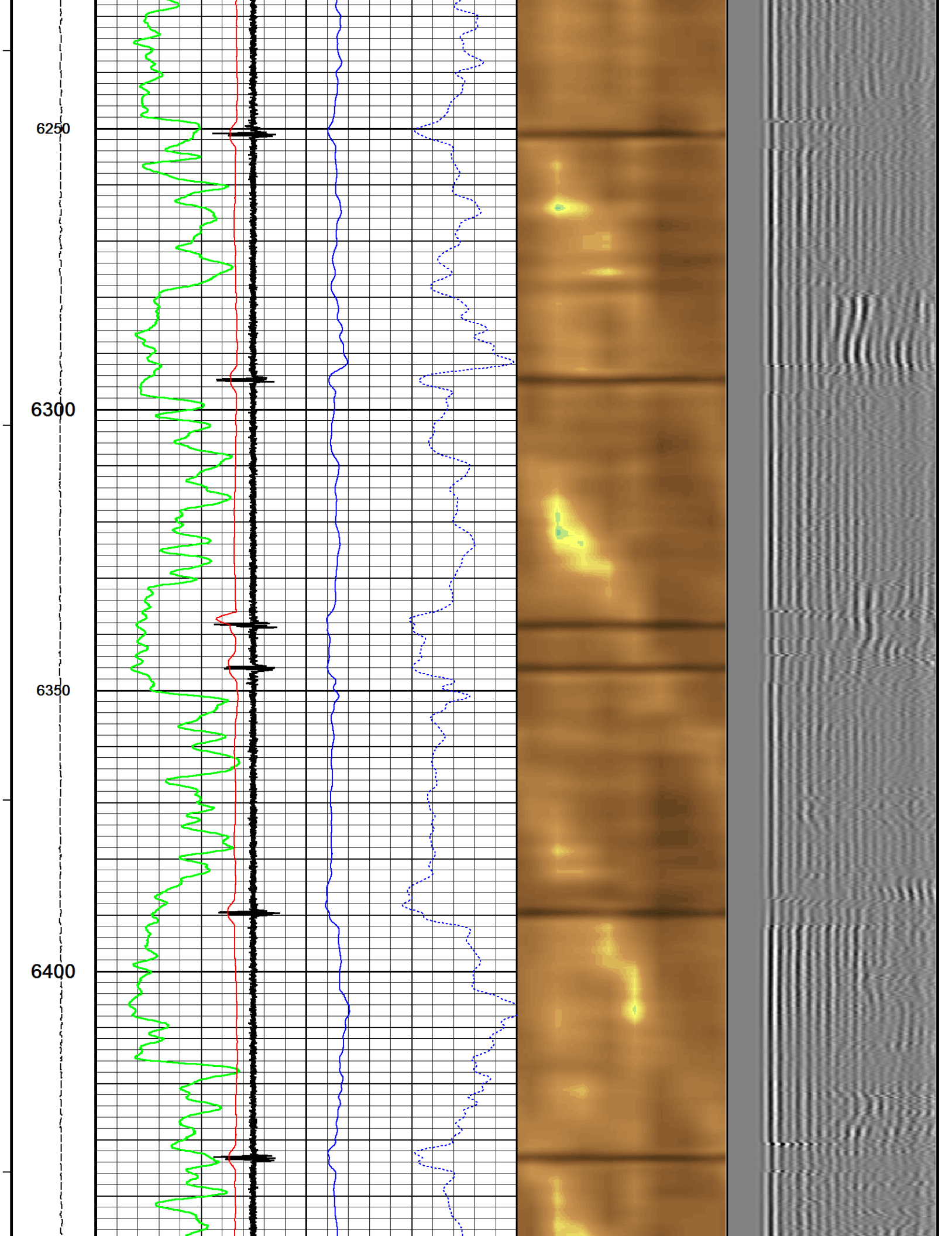


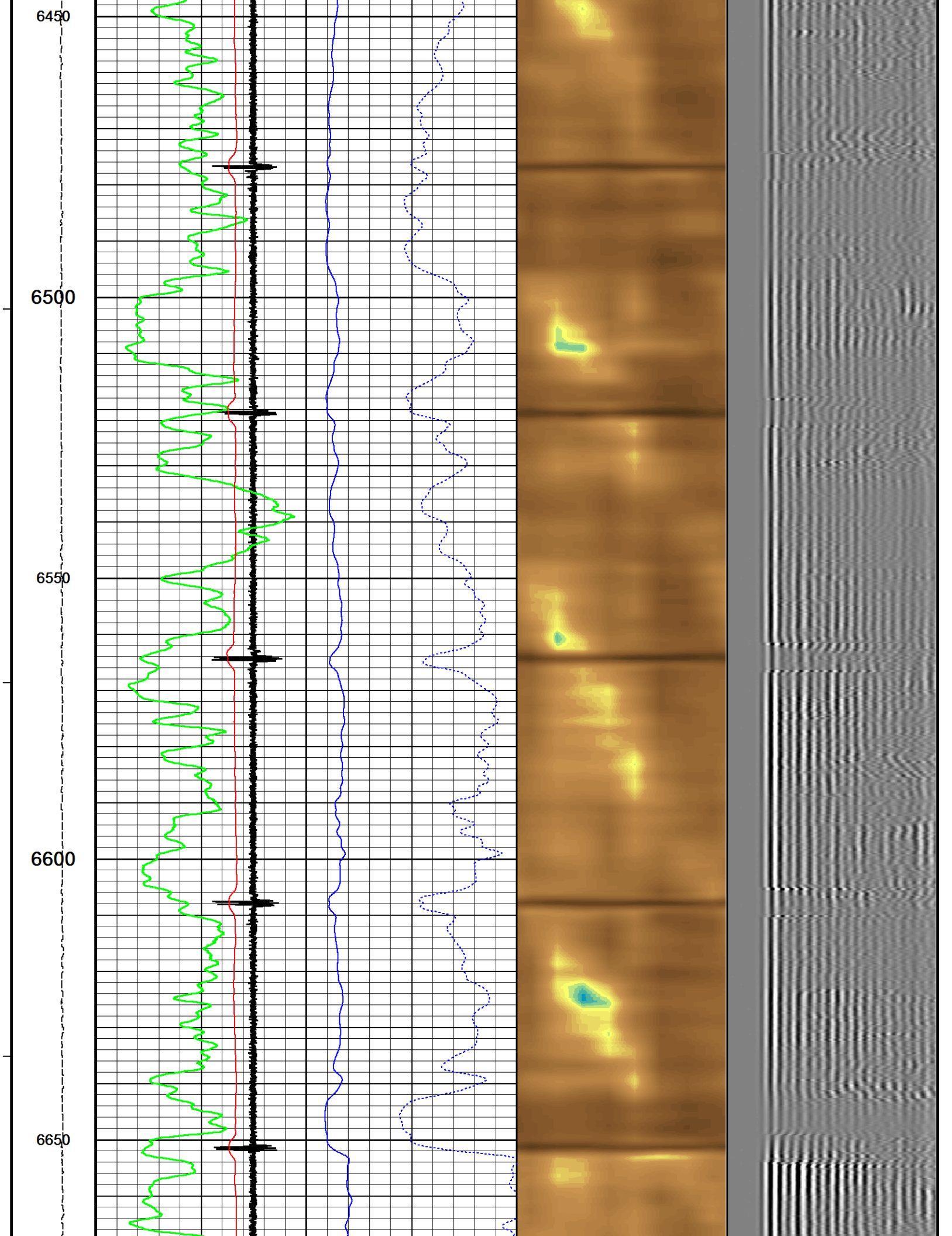


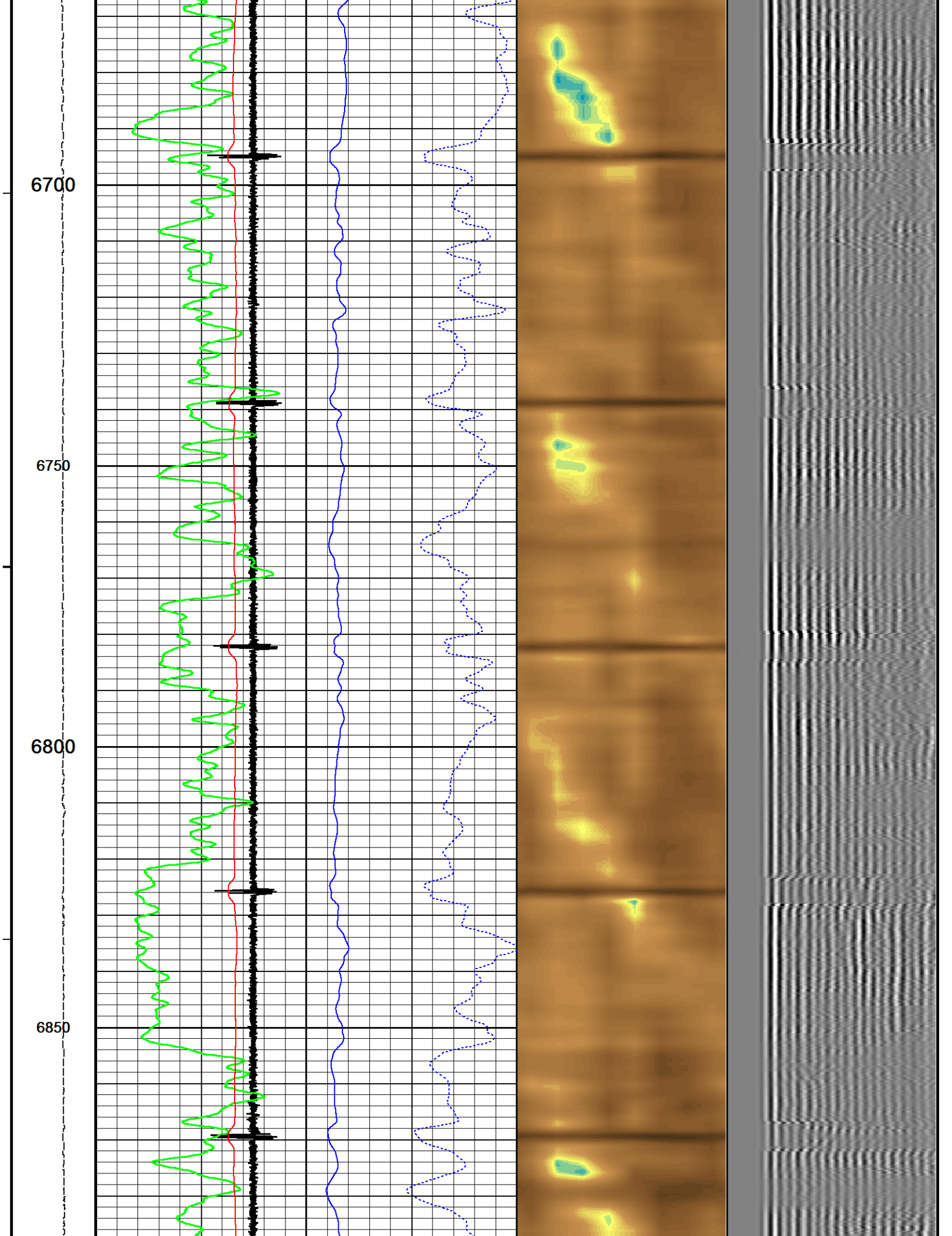


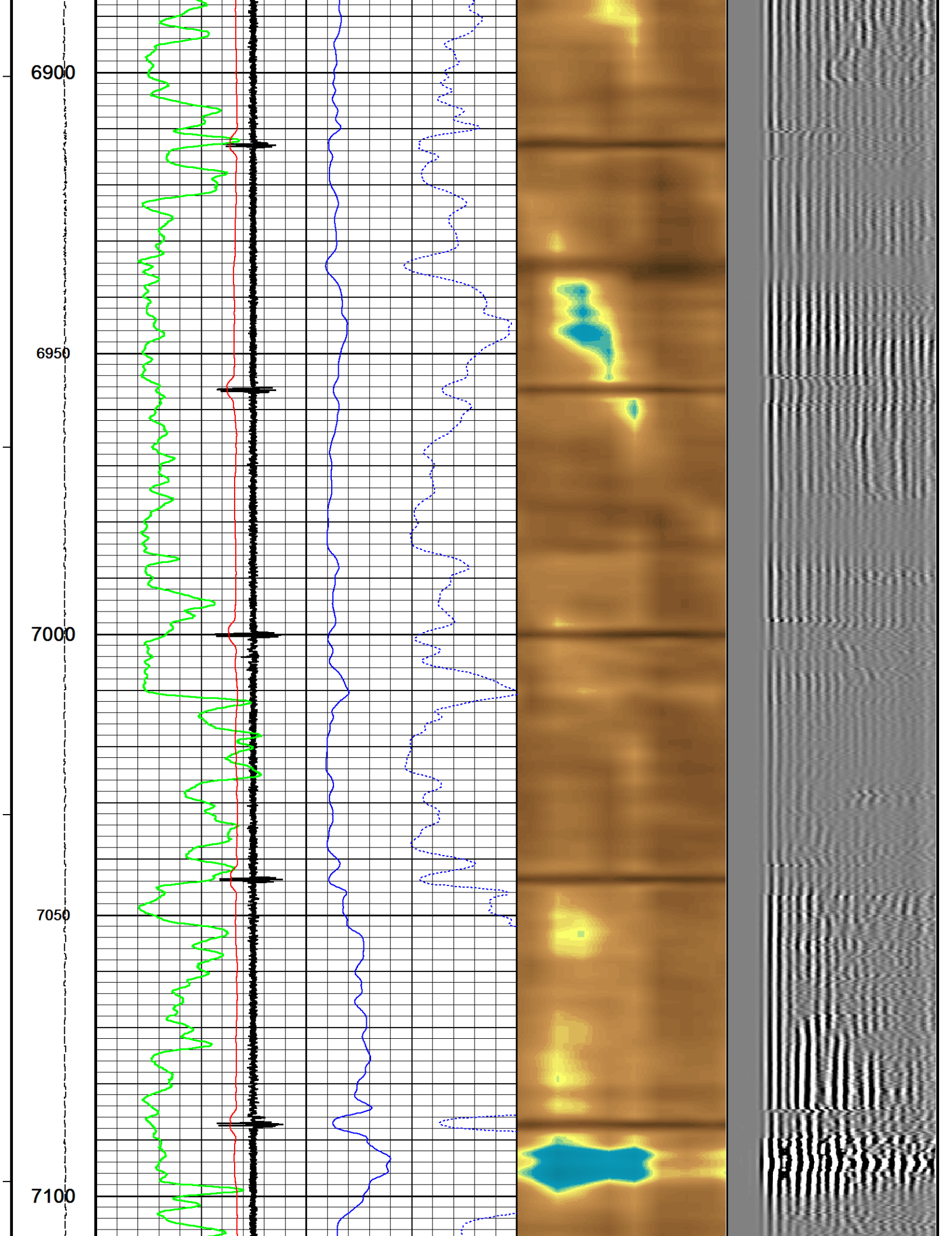


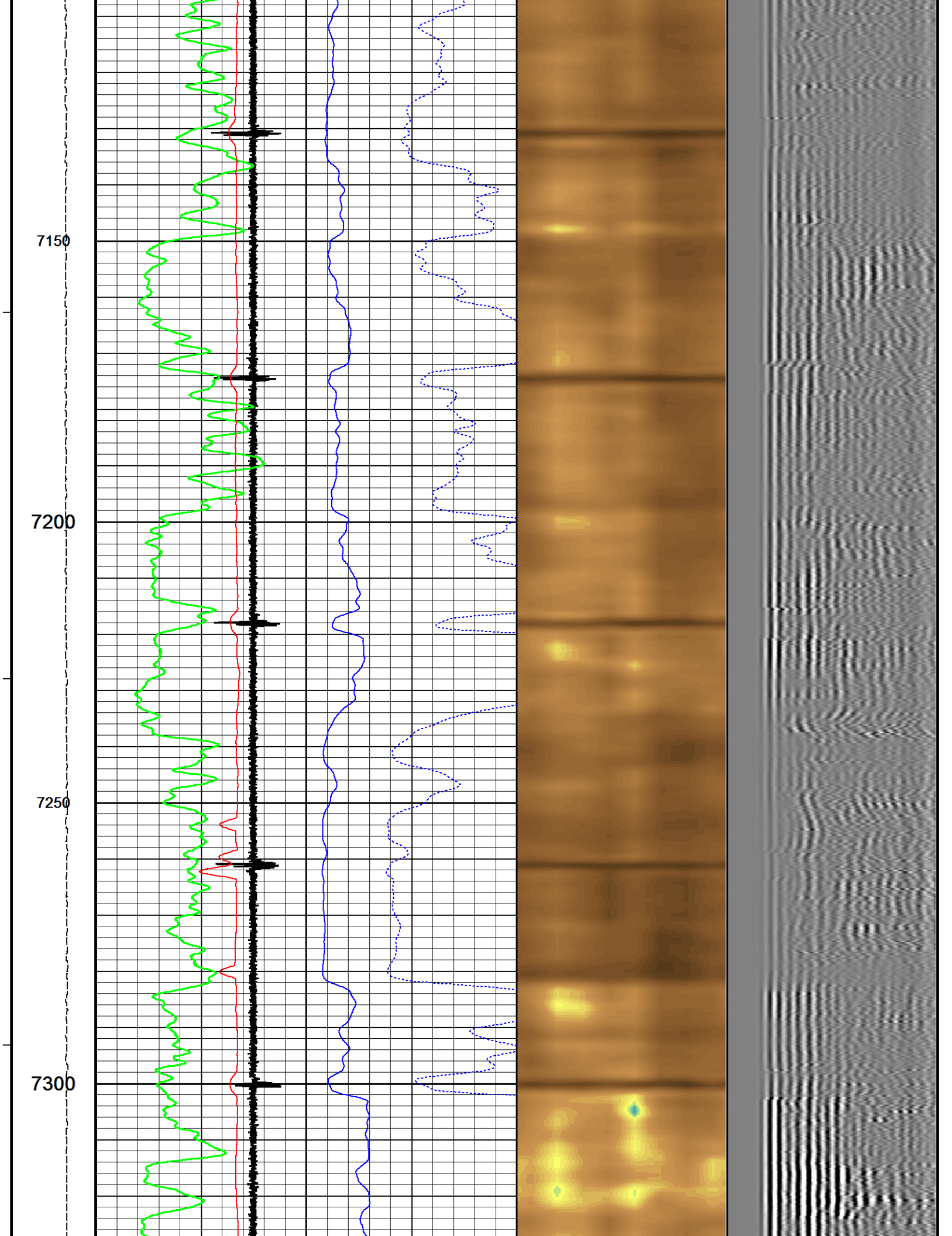


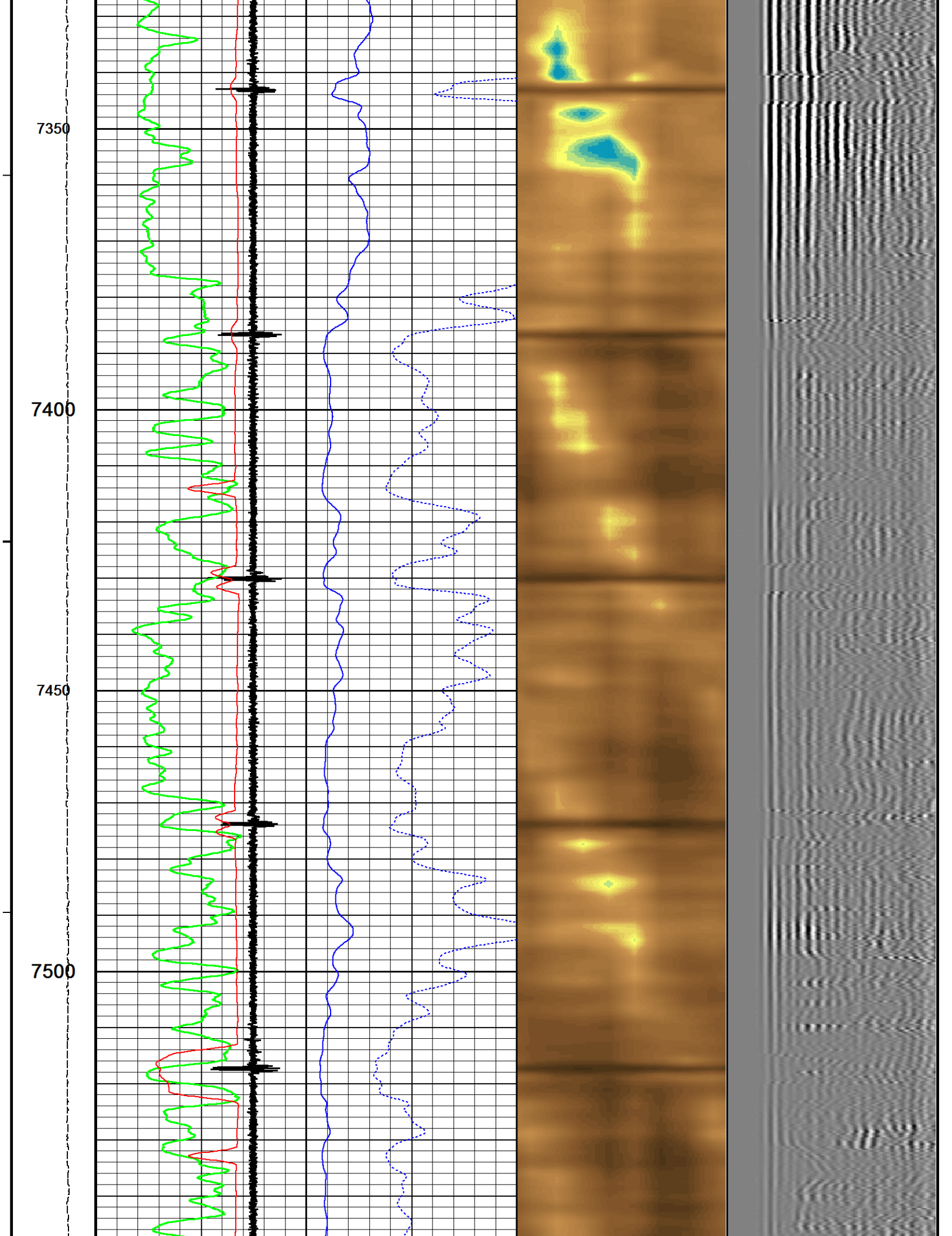


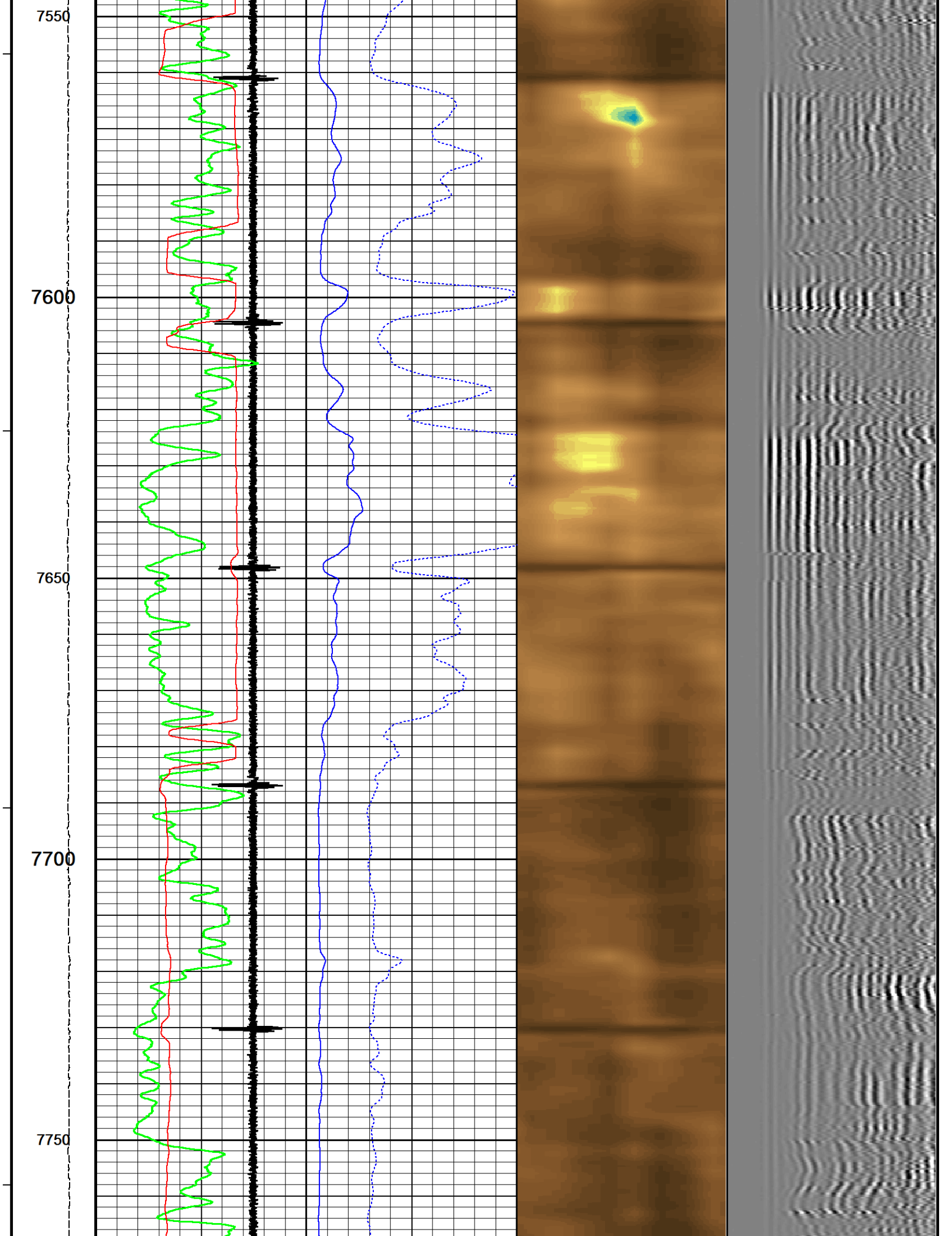


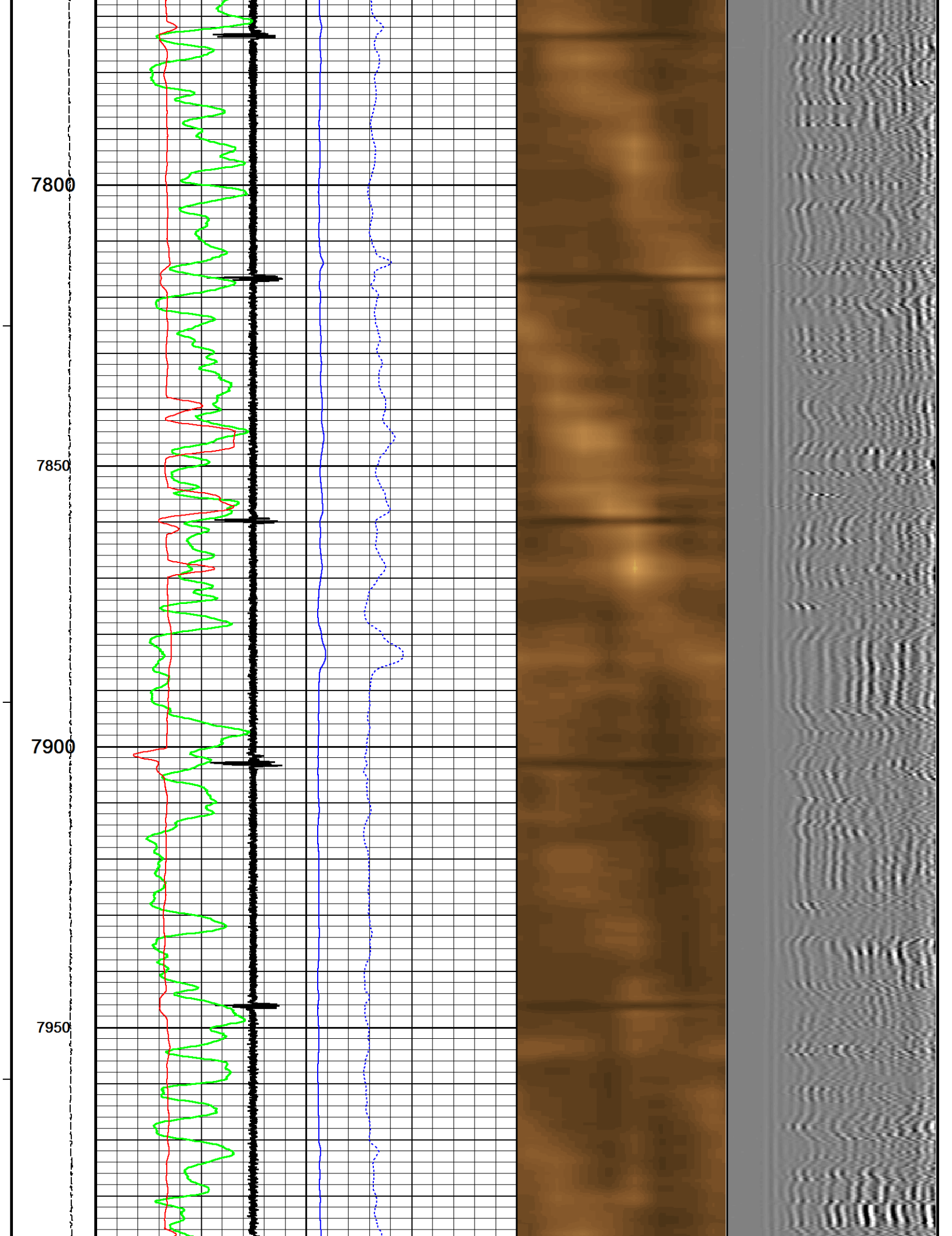


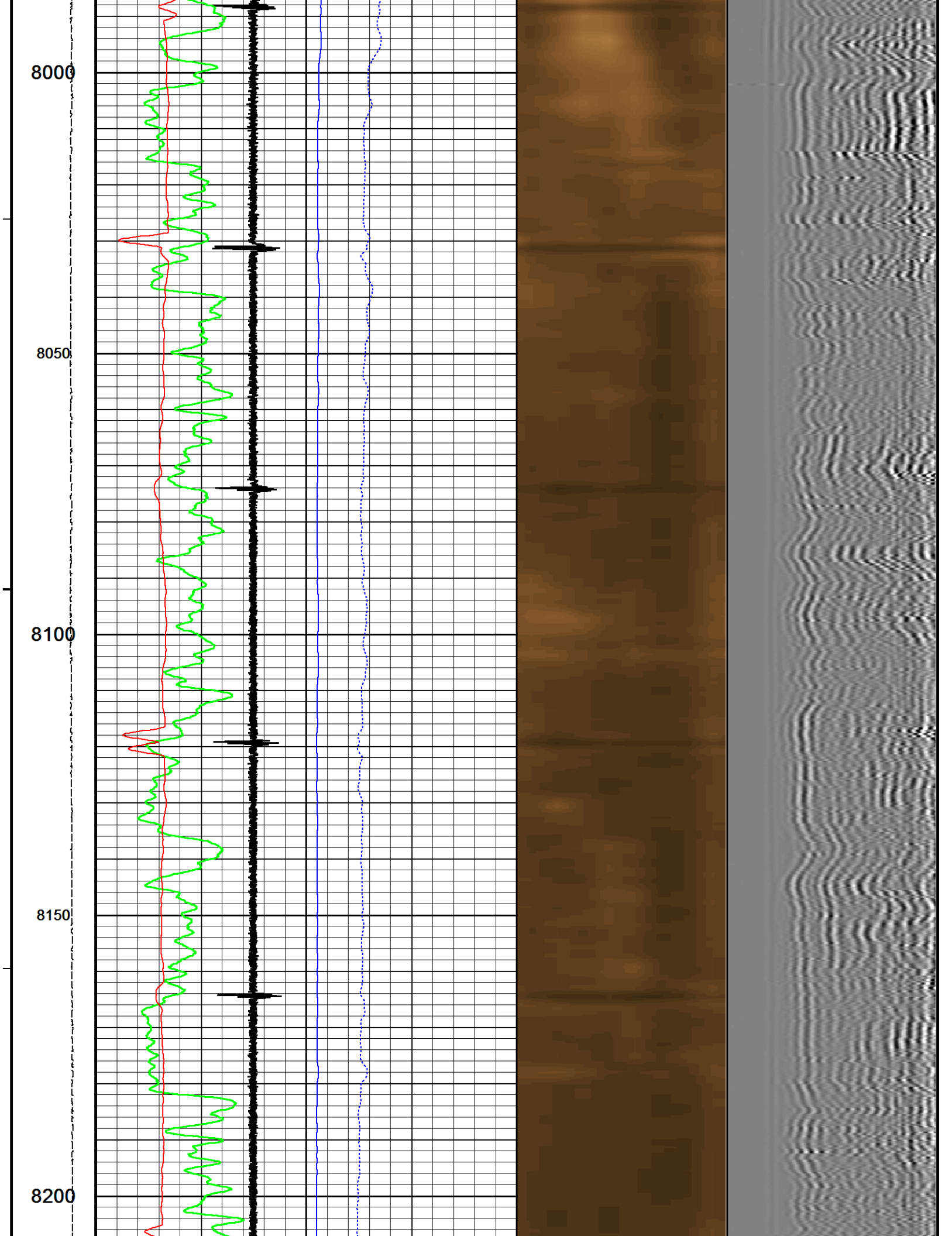


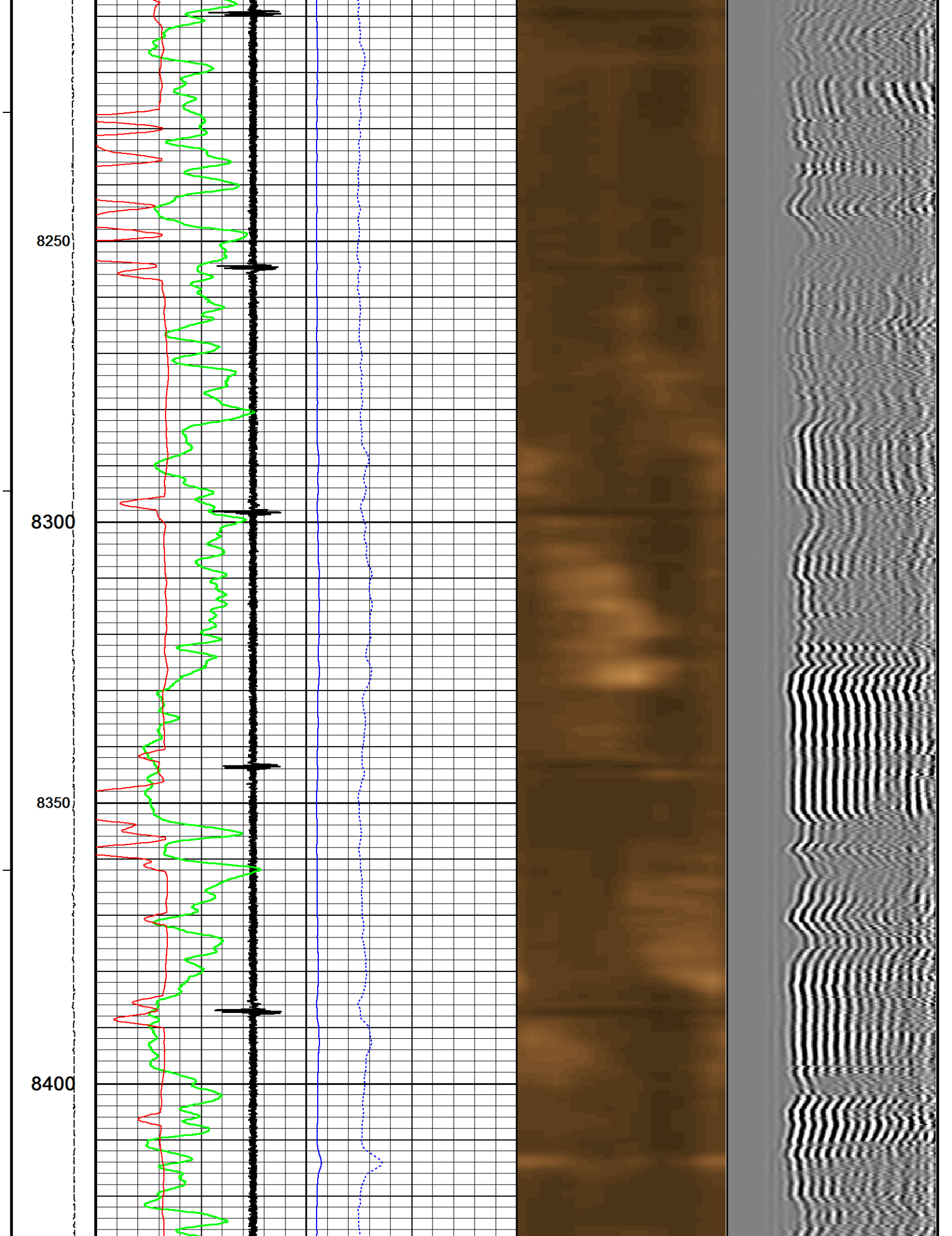


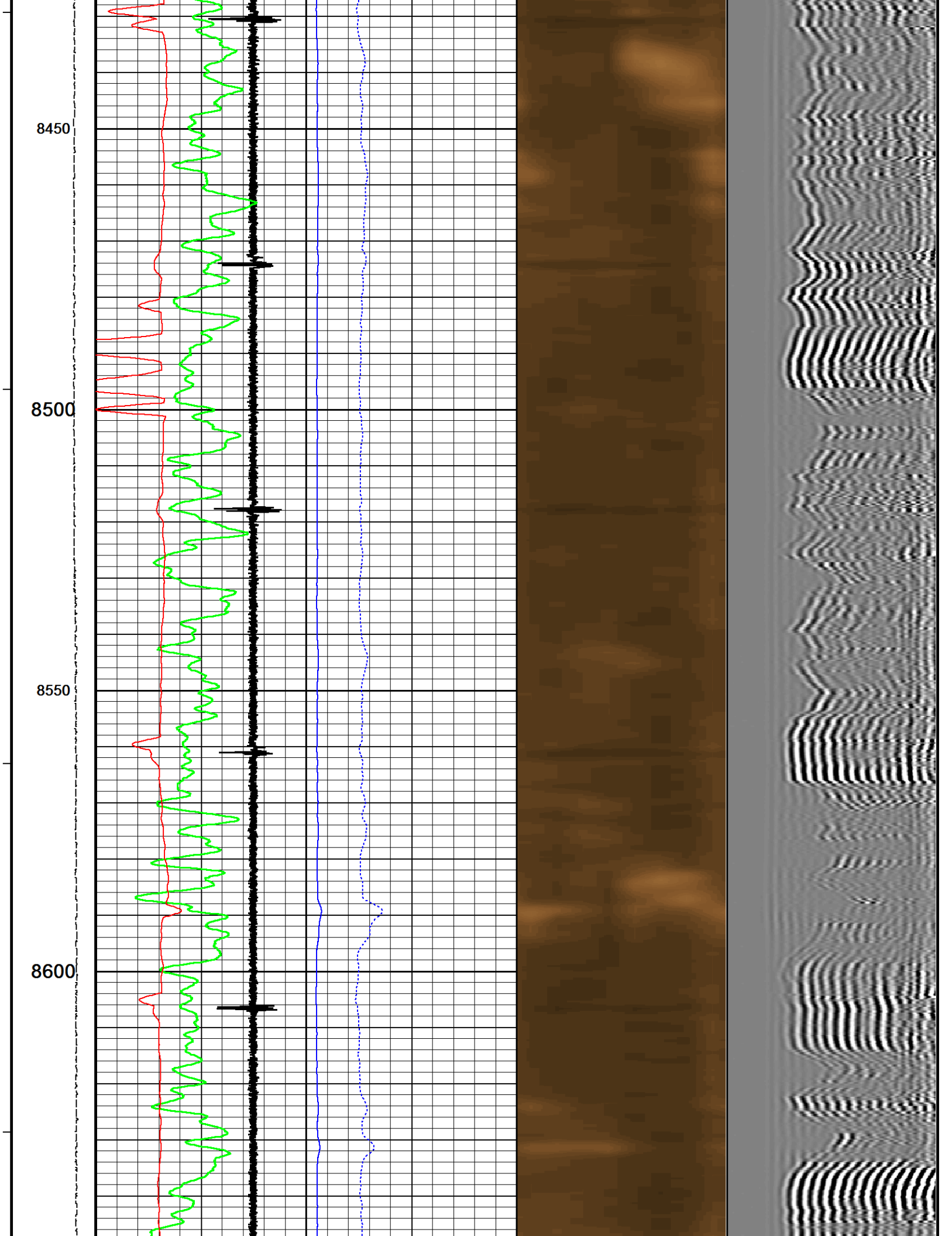


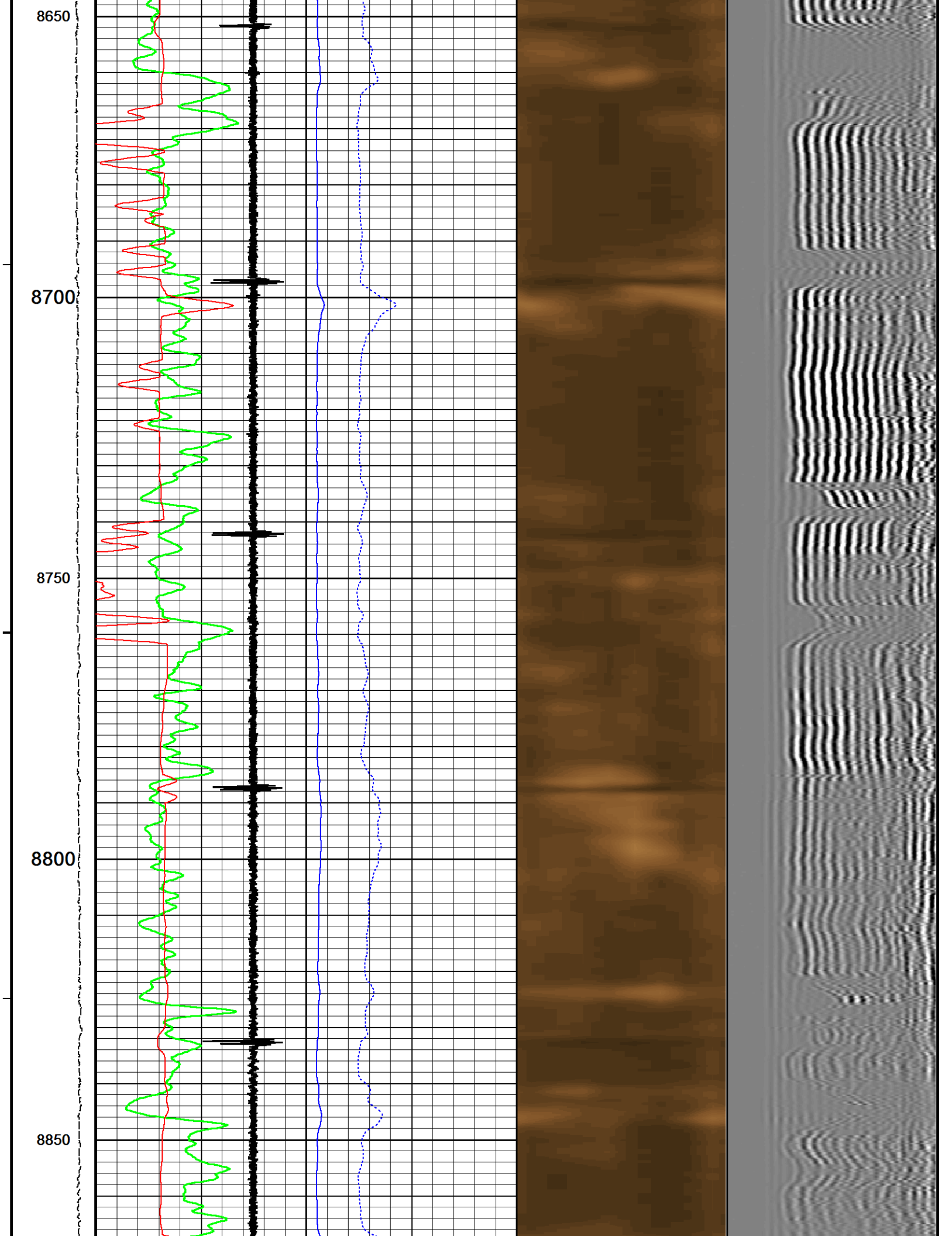


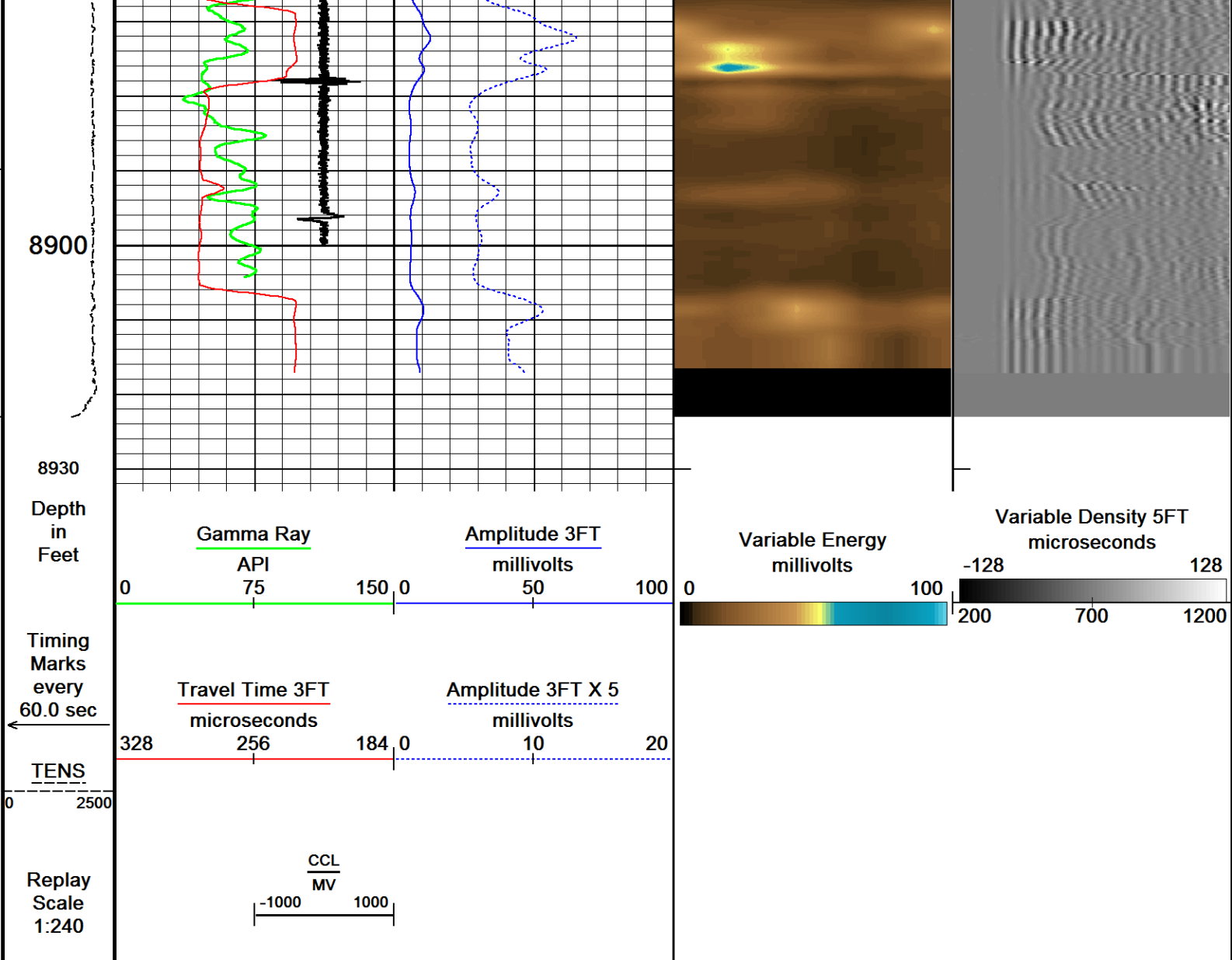






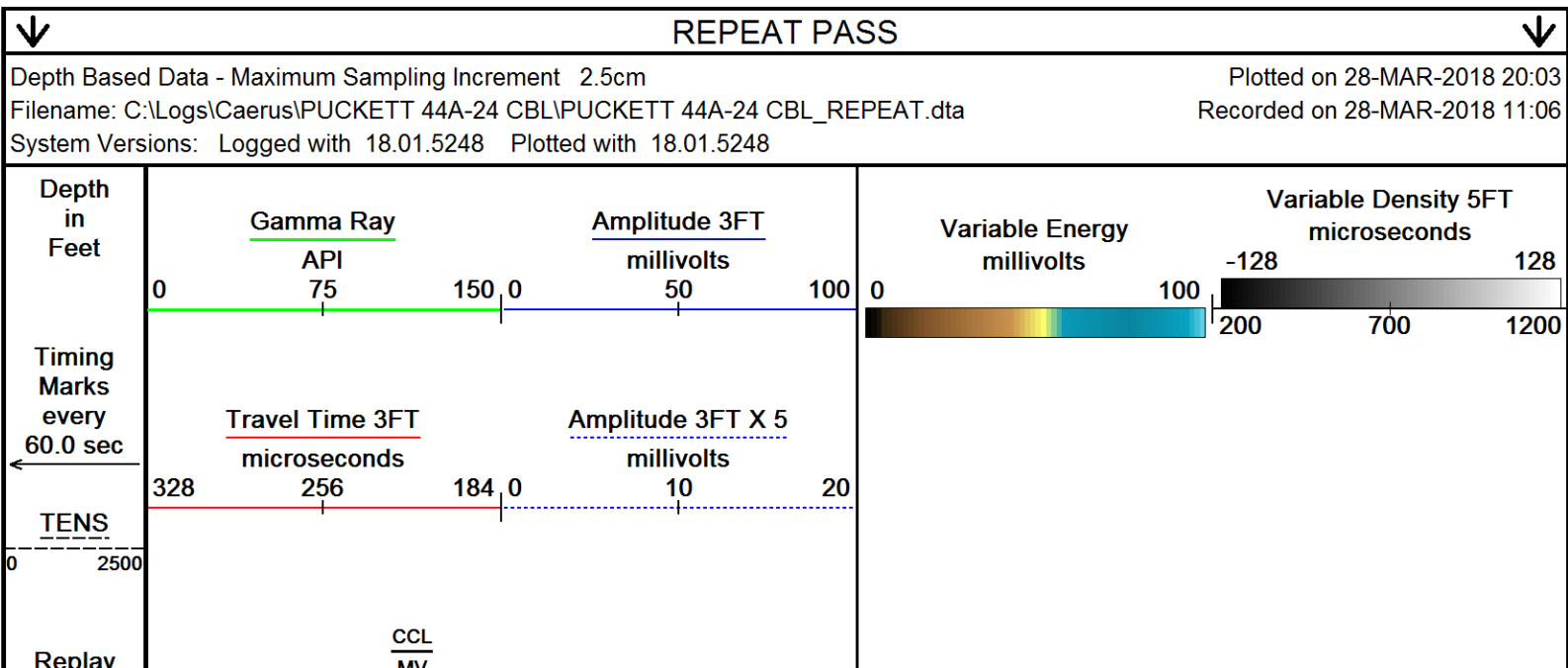






Depth Based Data - Maximum Sampling Increment 2.5cm
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System Versions: Logged with 18.01.5248 Plotted with 18.01.5248
Plotted on 28-MAR-2018 20:03
Recorded on 28-MAR-2018 10:02

↑ MAIN PASS ↑



Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Logs\Caerus\PUCKETT 44A-24 CBL\PUCKETT 44A-24 CBL_REPEAT.dta
System Versions: Logged with 18.01.5248 Plotted with 18.01.5248
Plotted on 28-MAR-2018 20:03
Recorded on 28-MAR-2018 11:06

↓ REPEAT PASS ↓

Display
Scale
1:240

-1000 MV 1000

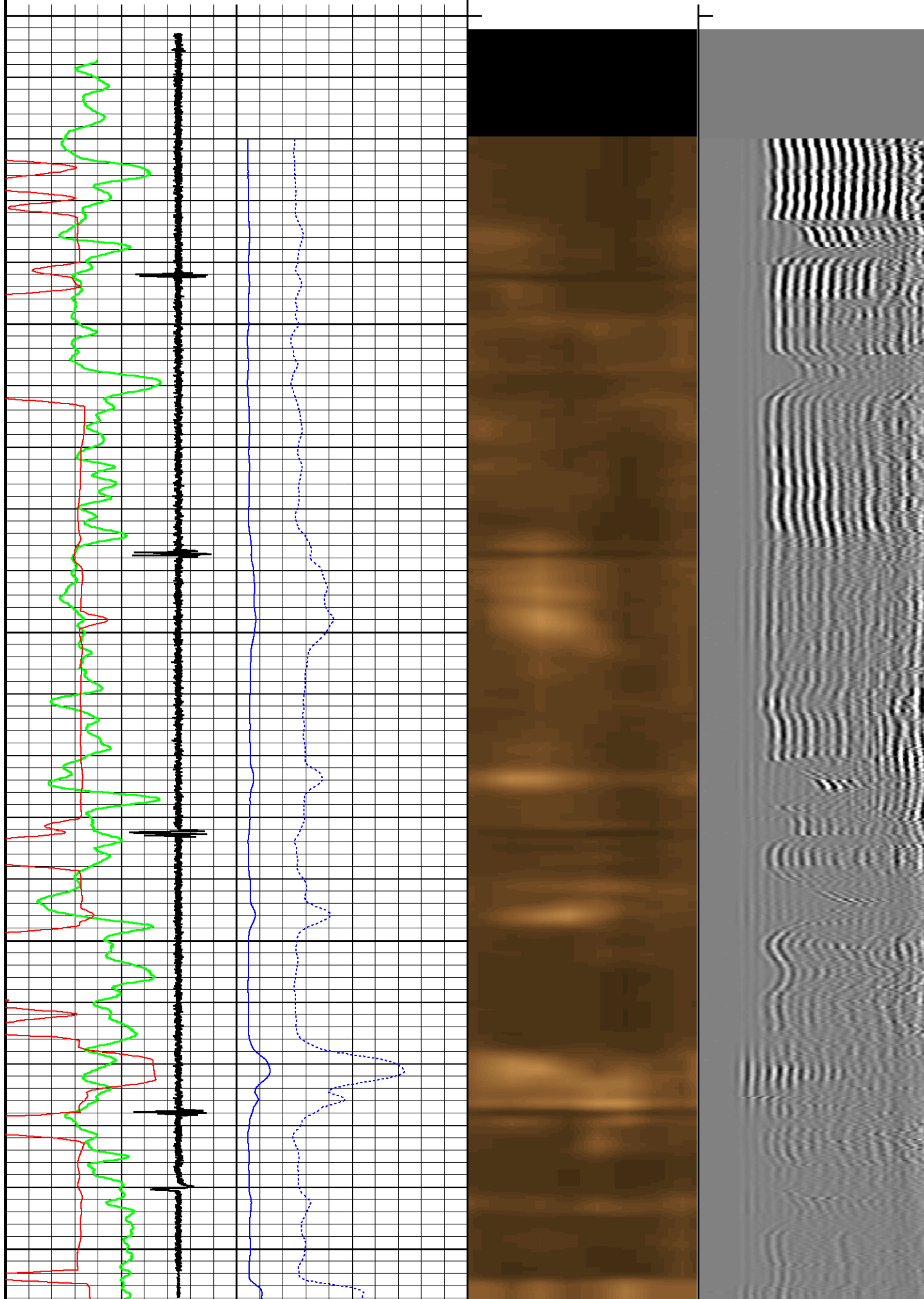
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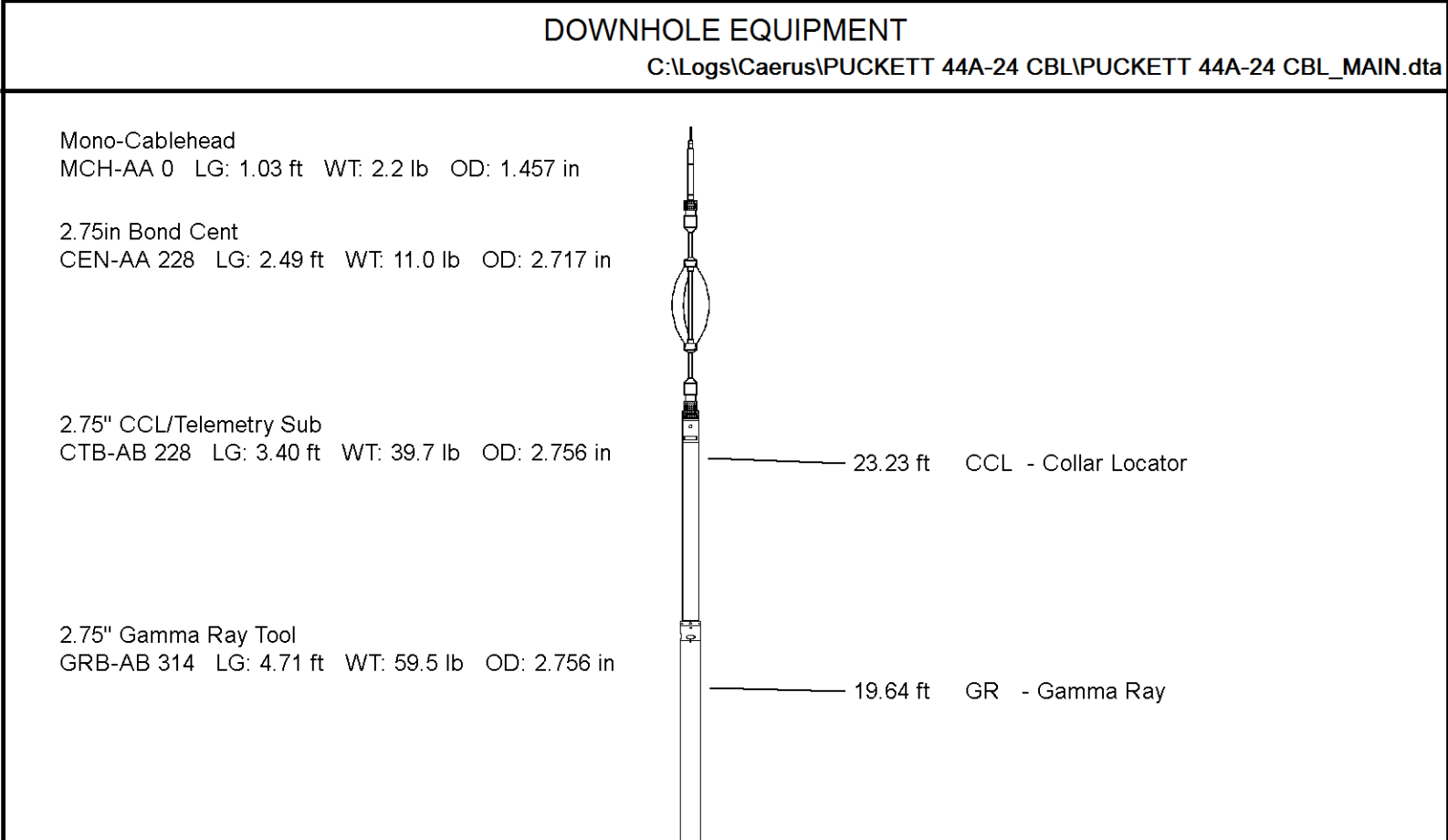
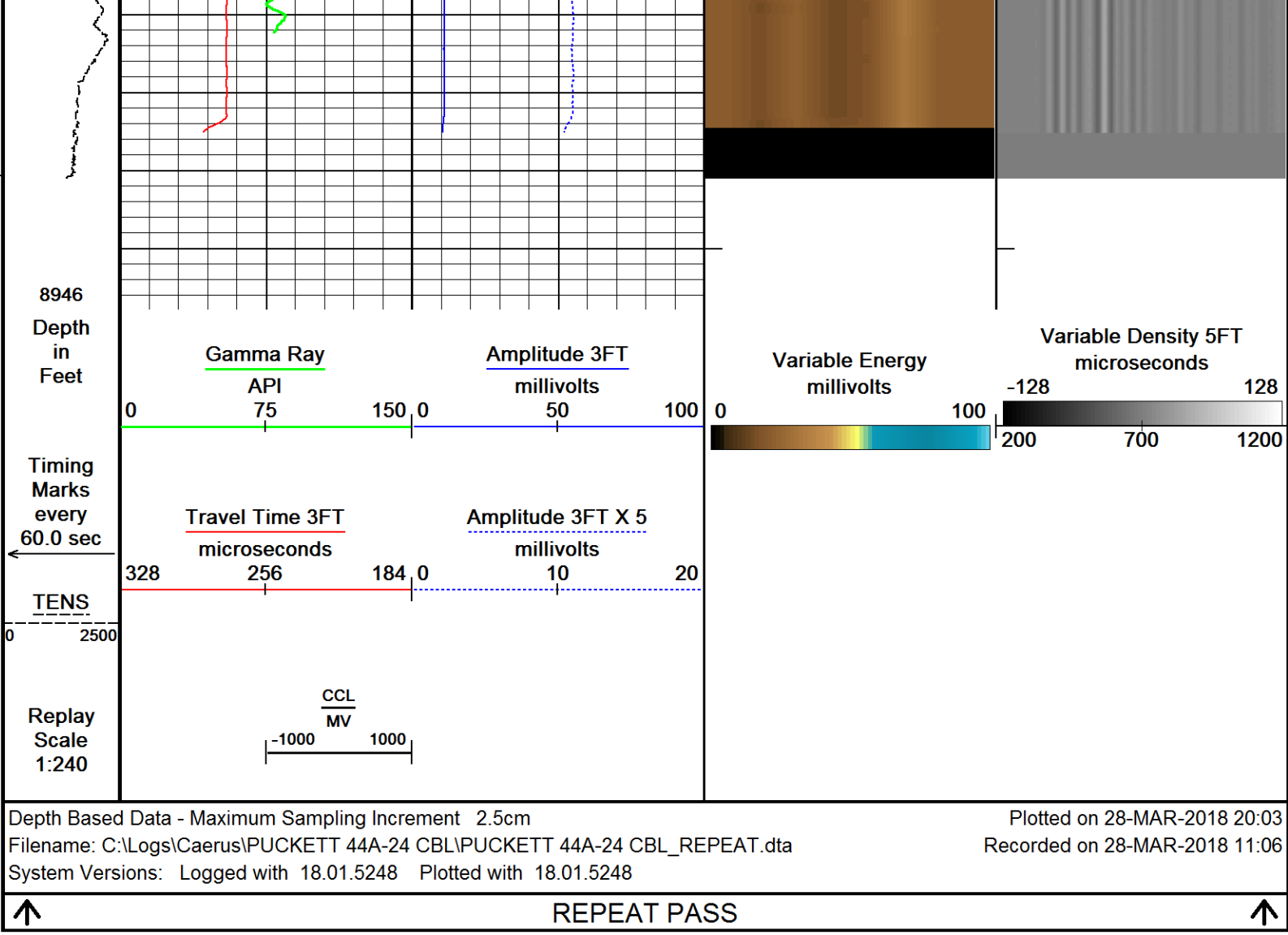
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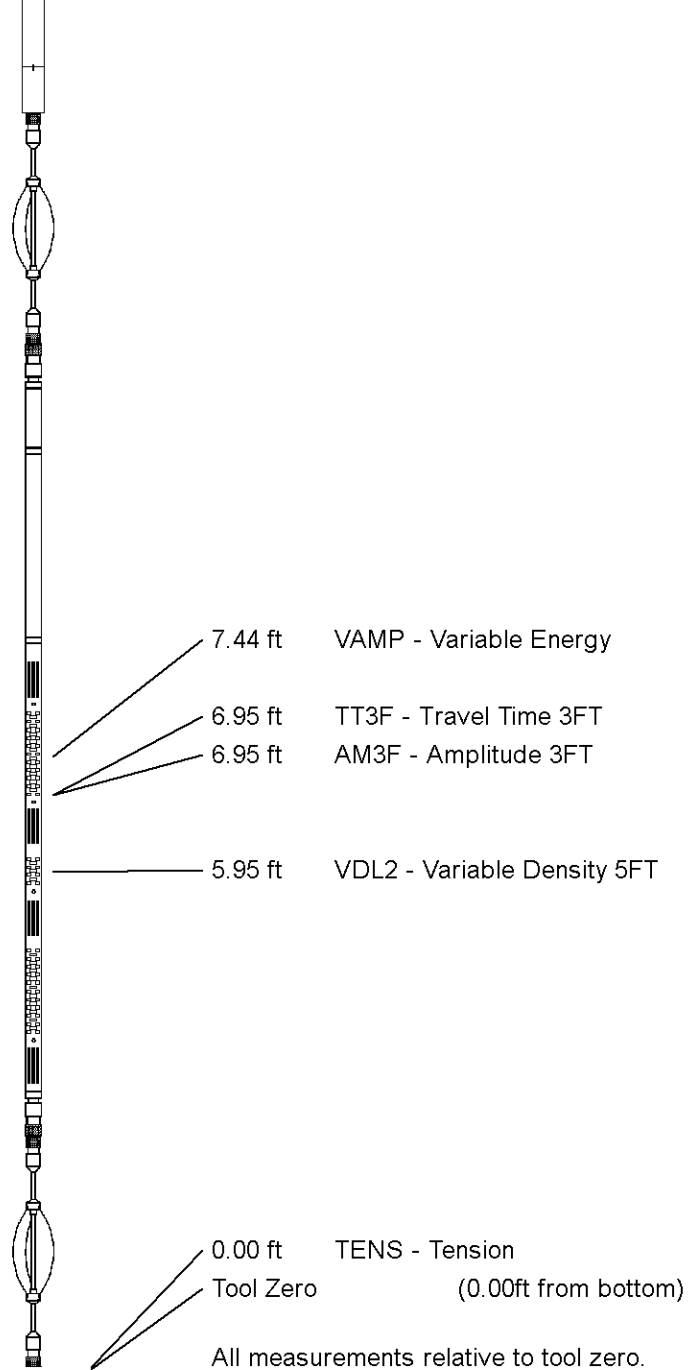


2.75in SBT Middle
CEN-BA 123 LG: 3.08 ft WT: 22.0 lb OD: 2.717 in

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 44A-24 CBL\PUCKETT 44A-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
calibrator No:

Serial No: 314

Background	Calibrator	Standard	Units
102.2	492.8	140.0	CPS

Delta Counts Per Sec: 390.6

CPS/API = 2.790

SBT Field calibration SBT-AA 316

Sector Bond Field Calibration

Tool Type	SBT-AA	Serial No	316
T0 Gain	-21dB	Free Pipe Depth	

Sensor	Description	Standard(mV)	Measured(mV)
AMP 3FT	100% Bond	3.60	0.50
	Free Pipe	81.00	848.30
AMP 5FT	100% Bond	0.40	0.50
	Free Pipe	54.00	2011.50
1 SECTOR AMP	100% Bond	5.00	1.90
	Free Pipe	95.00	753.60
2 SECTOR AMP	100% Bond	5.00	20.90
	Free Pipe	95.00	796.80
3 SECTOR AMP	100% Bond	5.00	0.80
	Free Pipe	95.00	707.10
4 SECTOR AMP	100% Bond	5.00	2.00
	Free Pipe	95.00	735.80
5 SECTOR AMP	100% Bond	5.00	0.50
	Free Pipe	95.00	814.10
6 SECTOR AMP	100% Bond	5.00	17.10
	Free Pipe	95.00	784.40
7 SECTOR AMP	100% Bond	5.00	2.90
	Free Pipe	95.00	761.40
8 SECTOR AMP	100% Bond	5.00	7.20
	Free Pipe	95.00	718.70


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 44A-24
FIELD	GRAND VALLEY
PROVINCE/COUNTY	GARFIELD

COUNTRY/STATE			USA / COLORADO		
Elevation Kelly Bushing	8181	feet	Bottom Log Interval	8925.00	feet
Elevation Drill Floor	8181	feet	Depth Driller	9099.00	feet
Elevation Ground Level	8151	feet	Depth Logger	8925.00	feet



Weatherford[®]

CEMENT BOND LOG