 Weatherford®				SBT			
COMPANY WELL FIELD COUNTY STATE/COUNTRY LOCATION				CAERUS PUCKETT 32C-26 GRAND VALLEY GARFIELD COLORADO NORTH PARACHUTE			
SEC	26	TWP	6S	RGE	97W	Other Services	
Latitude		39.498792					
Longitude		-108.182300					
API Number		05-045-23366					
Permanent Datum		GL		Elevation 8396		Elevations: K.B. 8426 D.F. 8426 G.L. 8396	
Log Measured From		KB					
Drilling Measured From		KB					
Date		12 MAY 17		PERFORATION RECORD			
Run Number		1		Shot		Number	
Service Order		TBD		Density		Of Shots	
Type Log		SBT				Depth From	
Depth Driller		9007				Depth To	
Depth Logger		8950					
Top Log Interval		0					
Bottom Log Interval		8950					
Hole Fluid Type		H2O					
Hole Fluid Level		70		GUN TYPE			
Restriction ID		NA		GUN SIZE			
Max. Recorded Temp.		NA		CASING / TUBING RECORD			
Well Head Pressure		NA		Size		Weight	
Well Head Equipment		NA		Inches		lbs/ft	
Time Well Ready		1600				Depth From	
Time Logger on Bottom		SEE LOG				Depth To	
Unit Number		14166					
Acquisition System		WARRIOR					
Location		CASPER					
Recorded By		N.SOUTHAM					
Witnessed By							

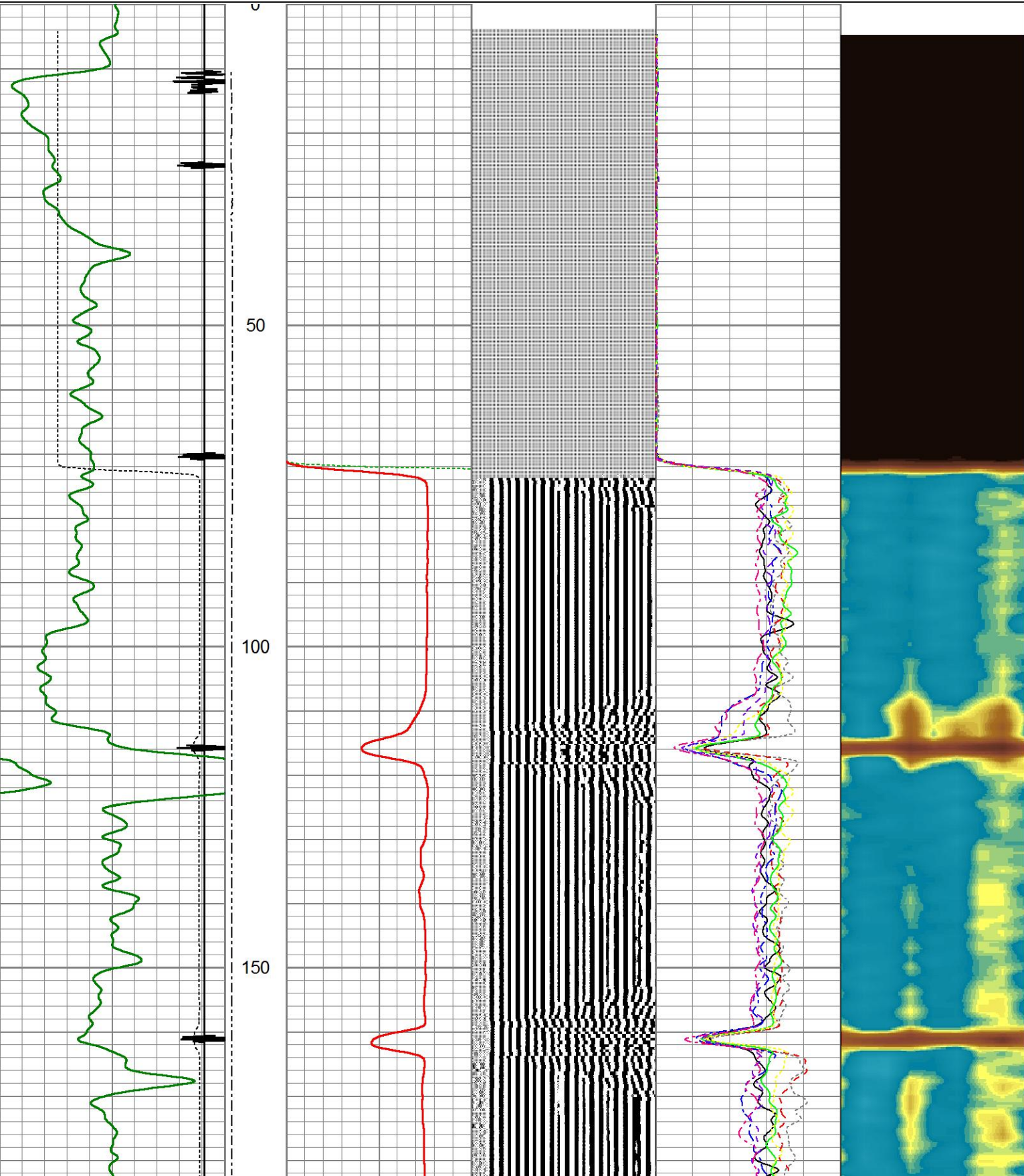
<<< Fold Here >>>

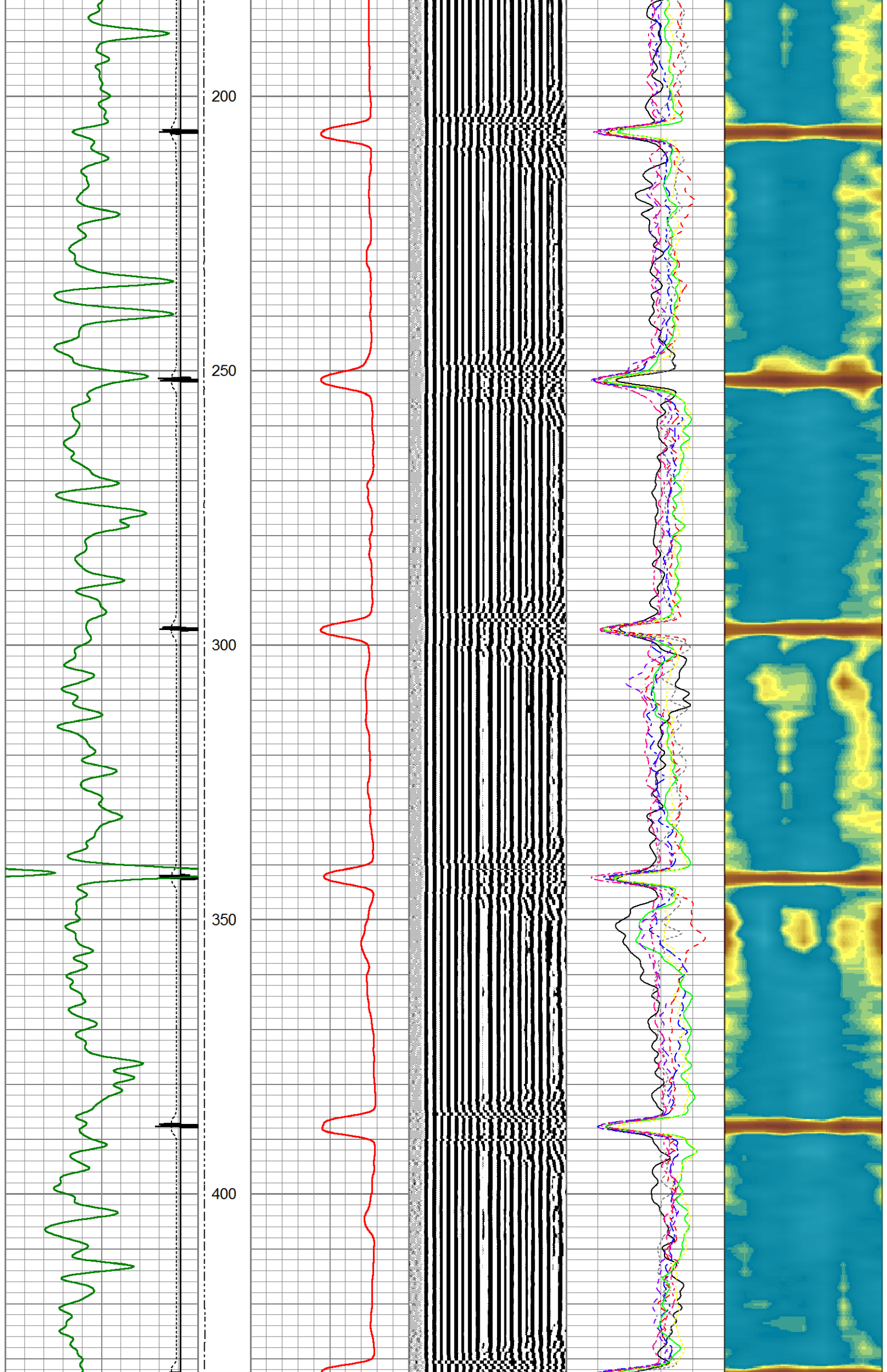
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

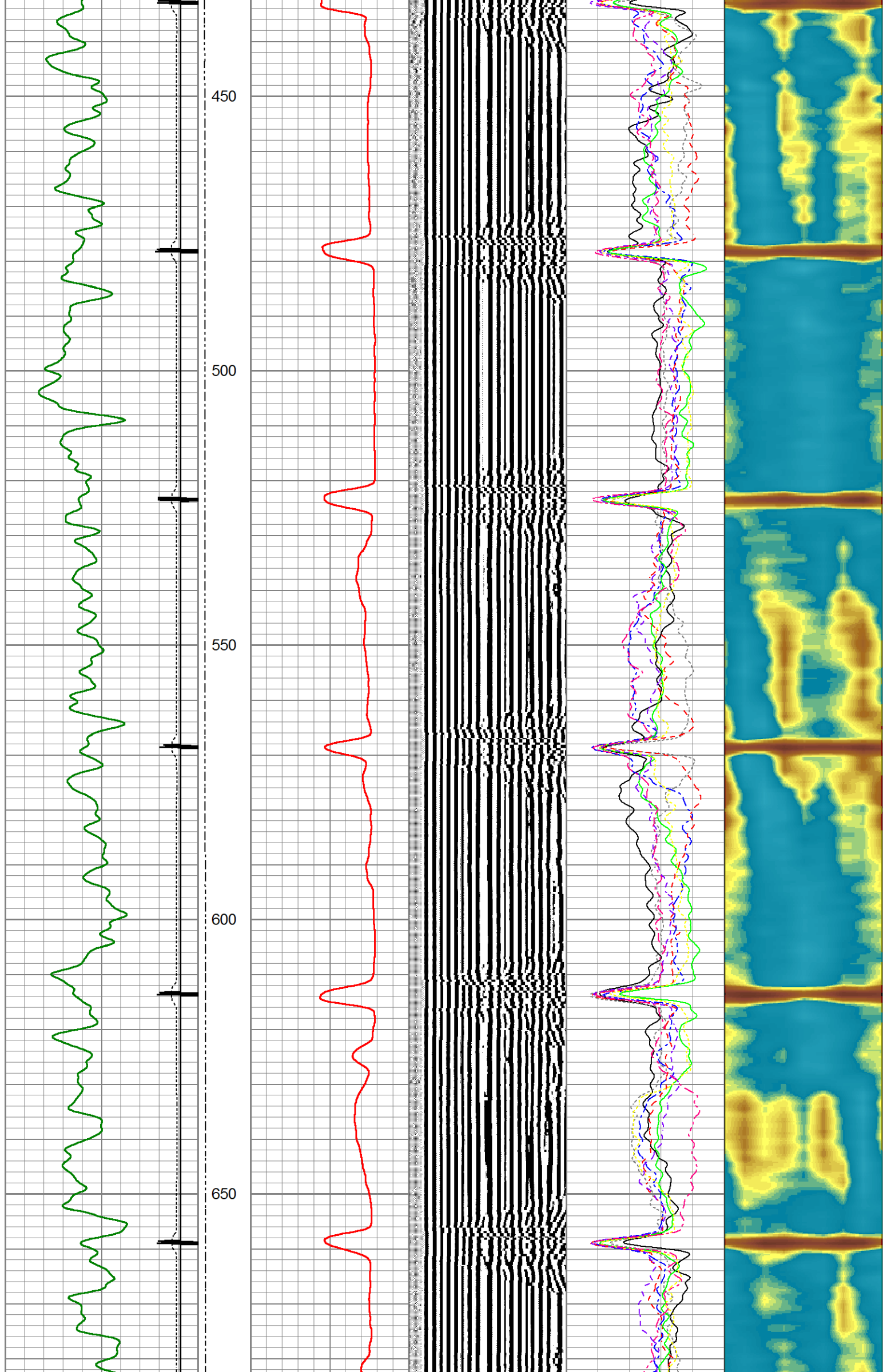
Comments	
Rig Name:	
THANK YOU FOR CHOOSING WEATHERFORD WIRELINE FOR THIS JOB. YOUR CREW FOR THIS LOG WAS N. SOUTHAM B. ENSLEY THIS LOG WAS RAN AT COSTUMER REQUEST FROM TD TO SURFACE TO VERIFY CEMENT THIS IS THE MAIN LOG FOR PERFORATING	

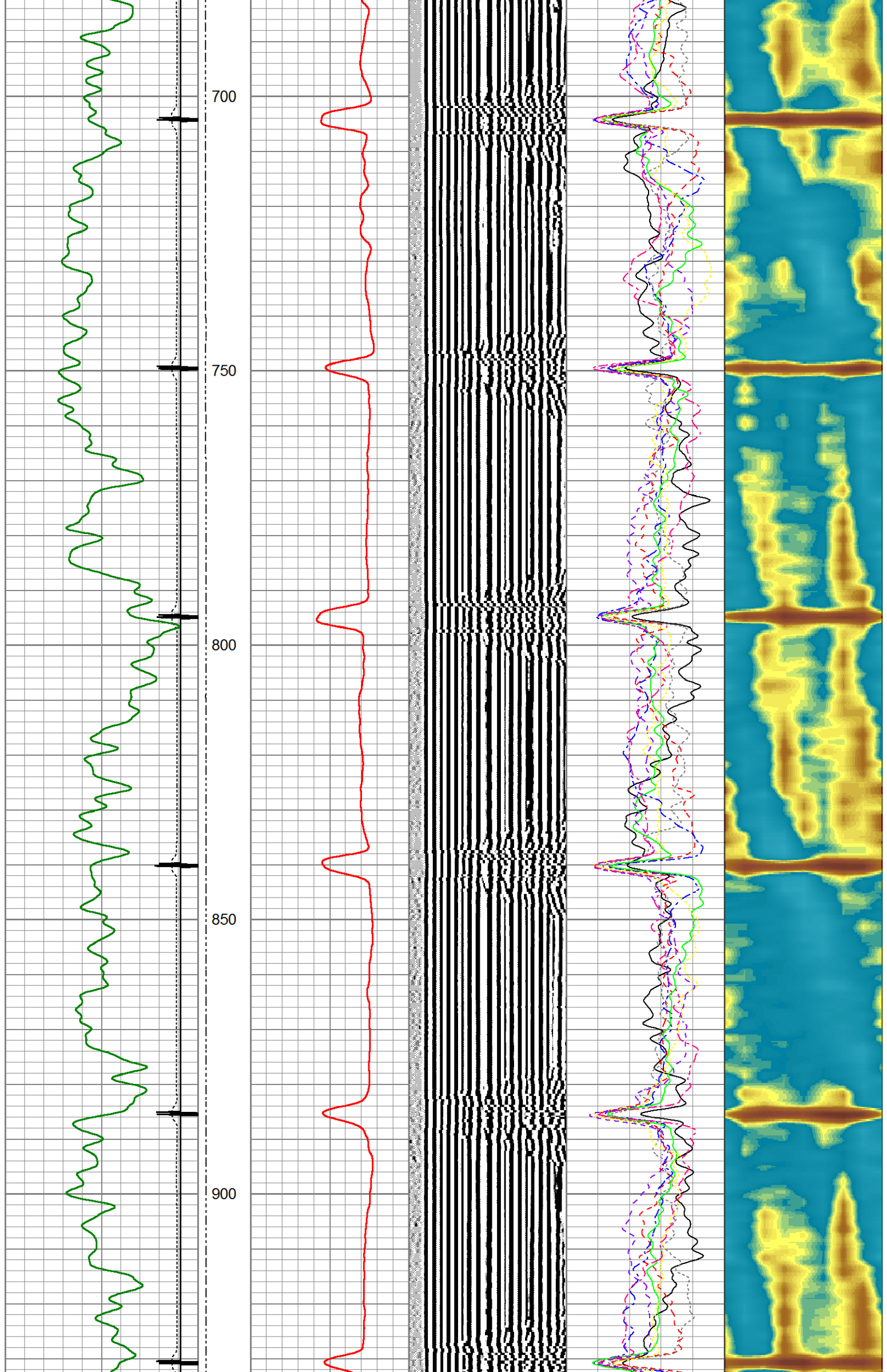
Database File caerus32c.db
Dataset Pathname pass4.1
Presentation Format sectors2
Dataset Creation Fri May 12 22:48:45 2017
Charted by Depth in Feet scaled 1:240

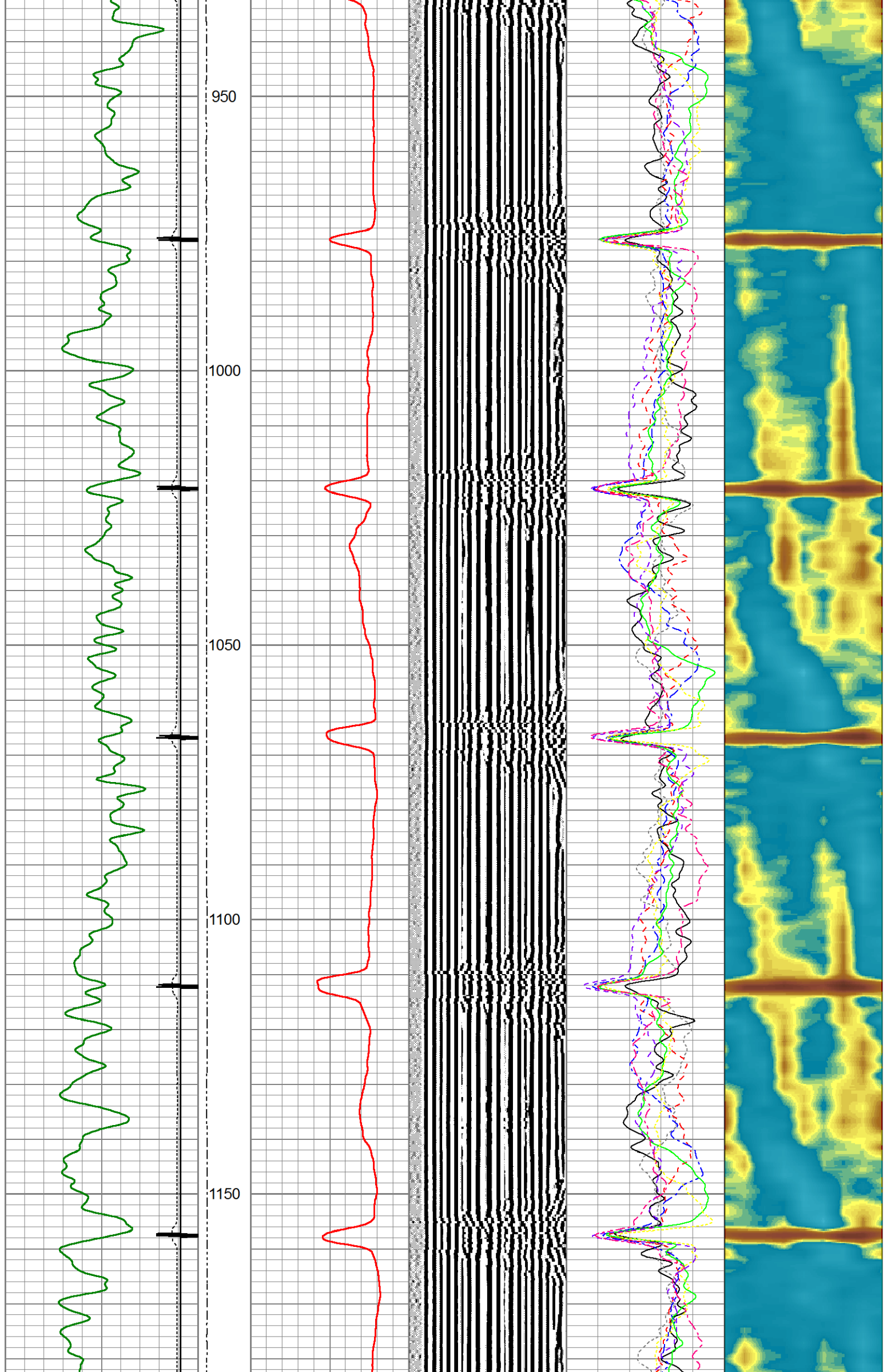
450	TT (usec)	150	LTEN	Amplified Amplitude	200	VDL (V)	1200	0	AMPS1	100	1	Sector Map	8
20	Collars	-2	(lb)	(mV)	20	PPT (usec)	1200	0	AMPS2	100	0		100
0	Gamma Ray	200	0 3000	0 Amplitude (mV)100				0	AMPS3	100			
								0	AMPS4	100			
								0	AMPS5	100			
								0	AMPS6	100			
								0	AMPS7	100			
								0	AMPS8	100			

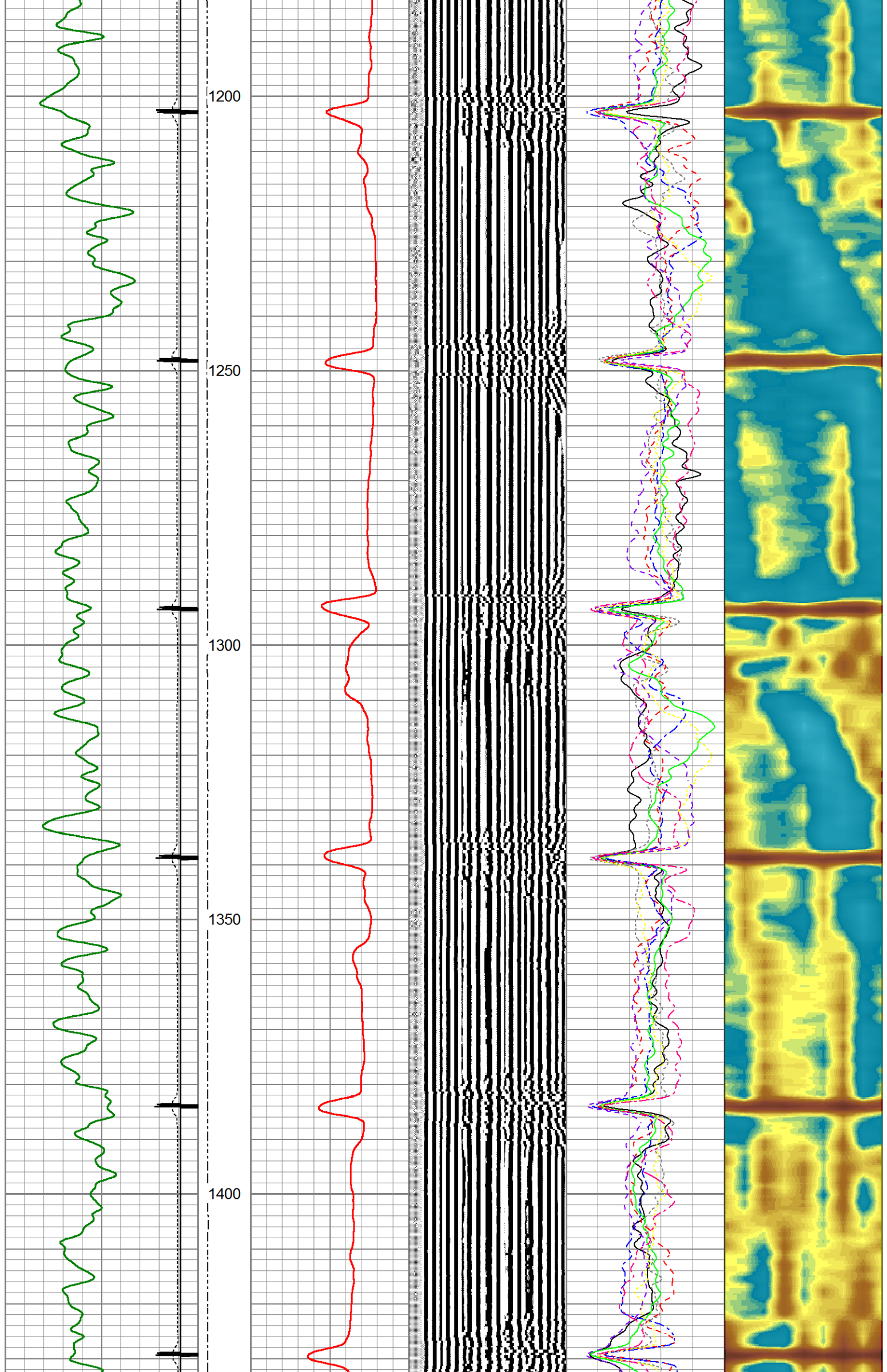


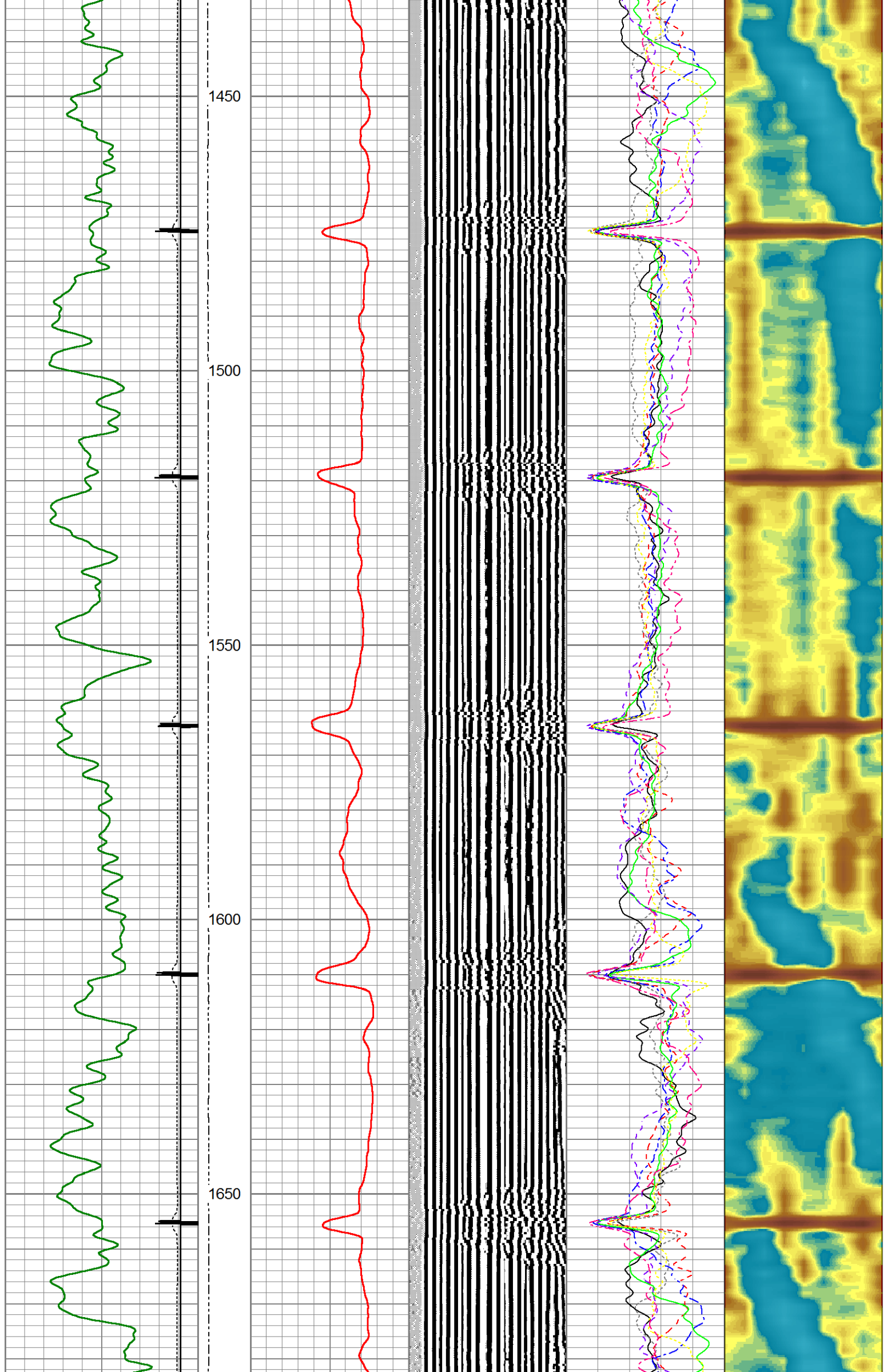


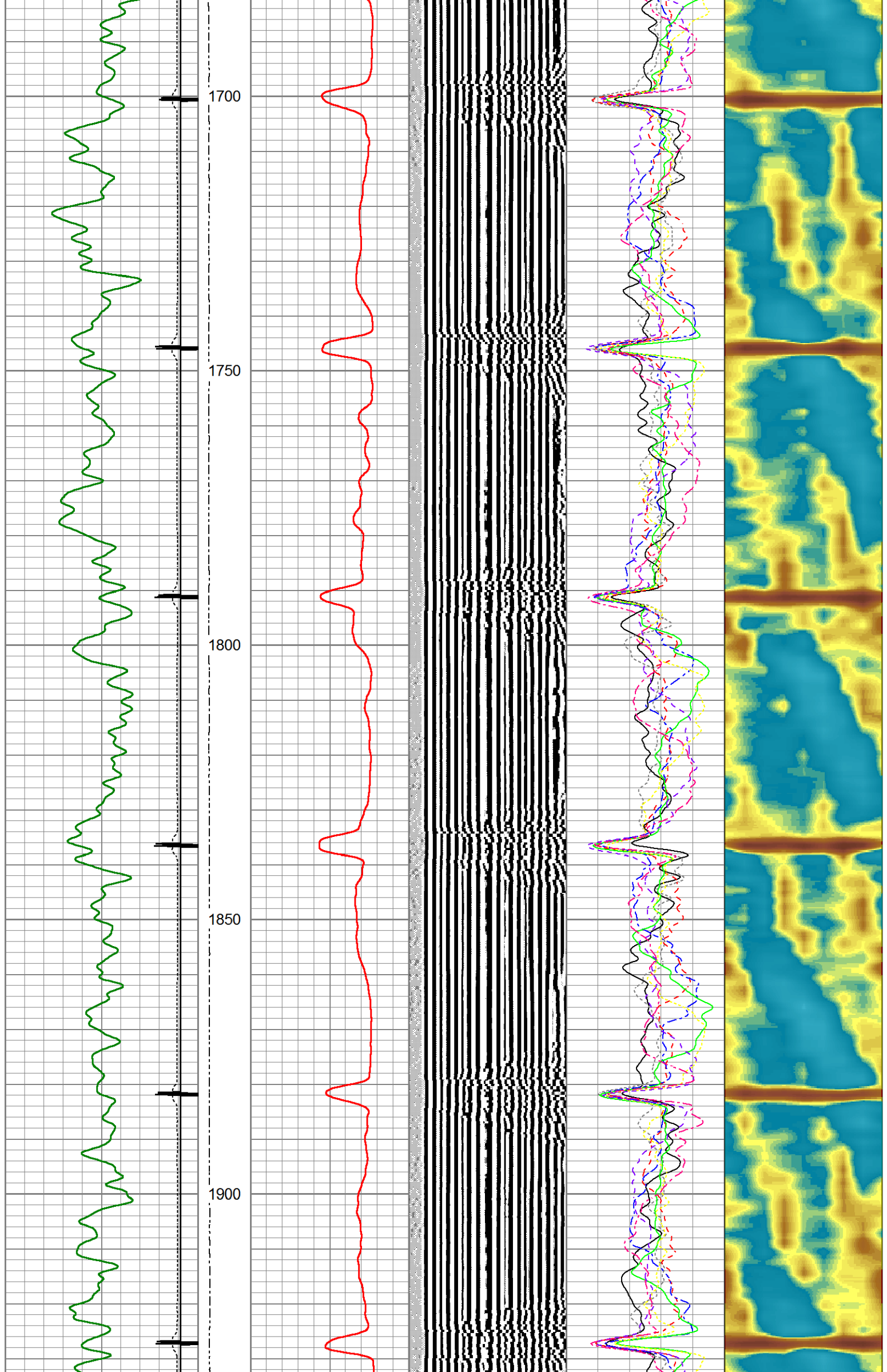


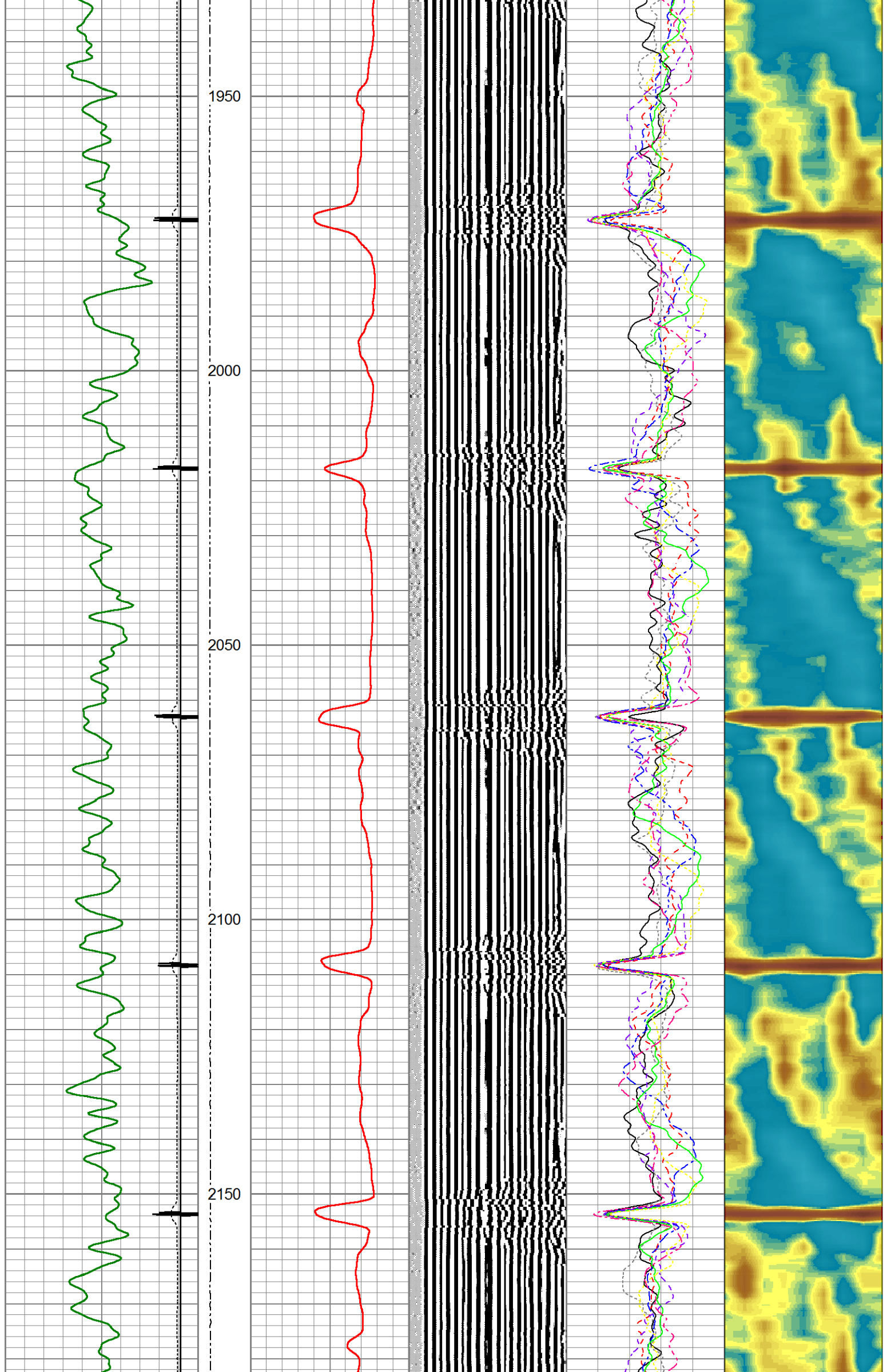


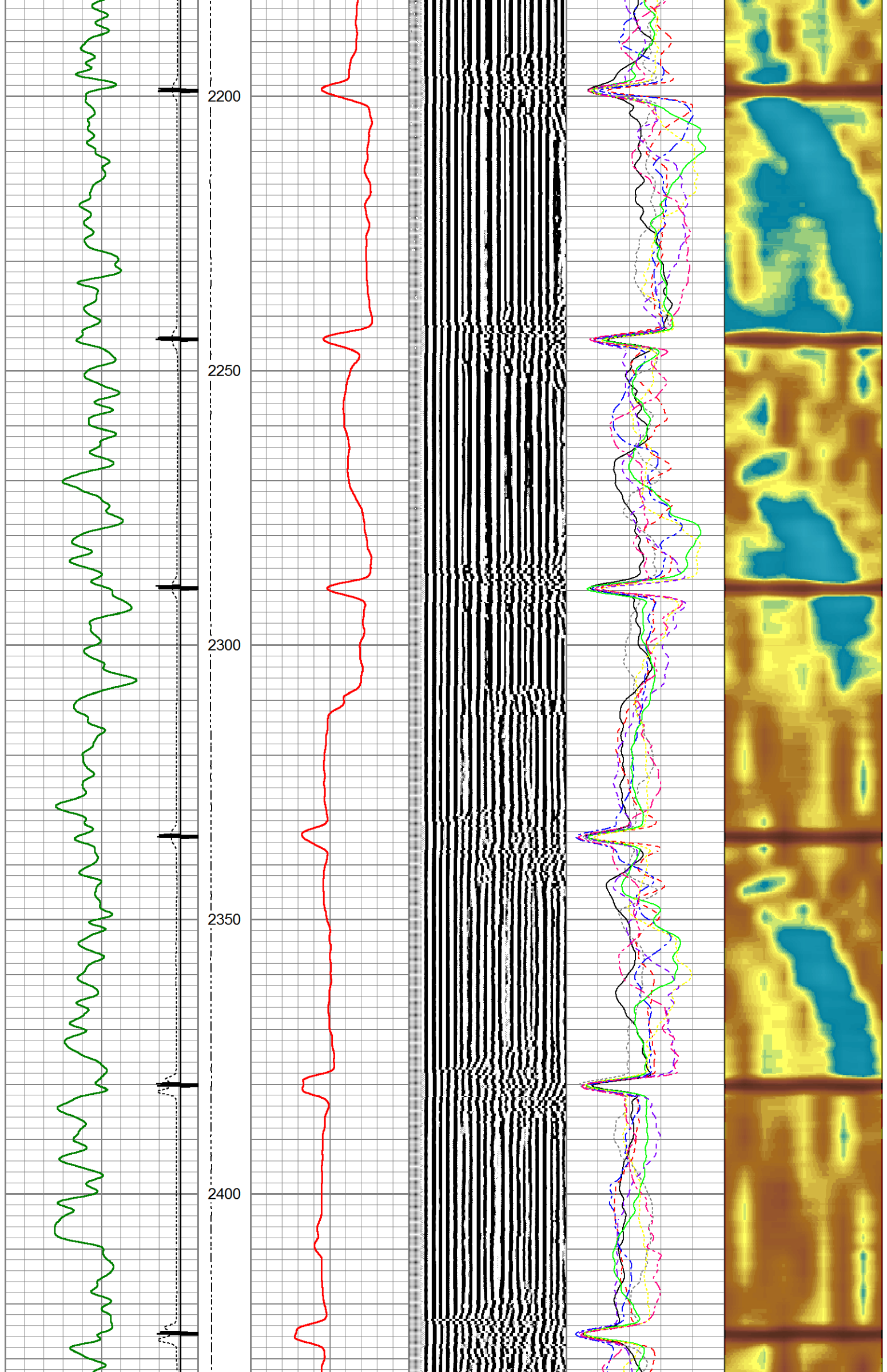


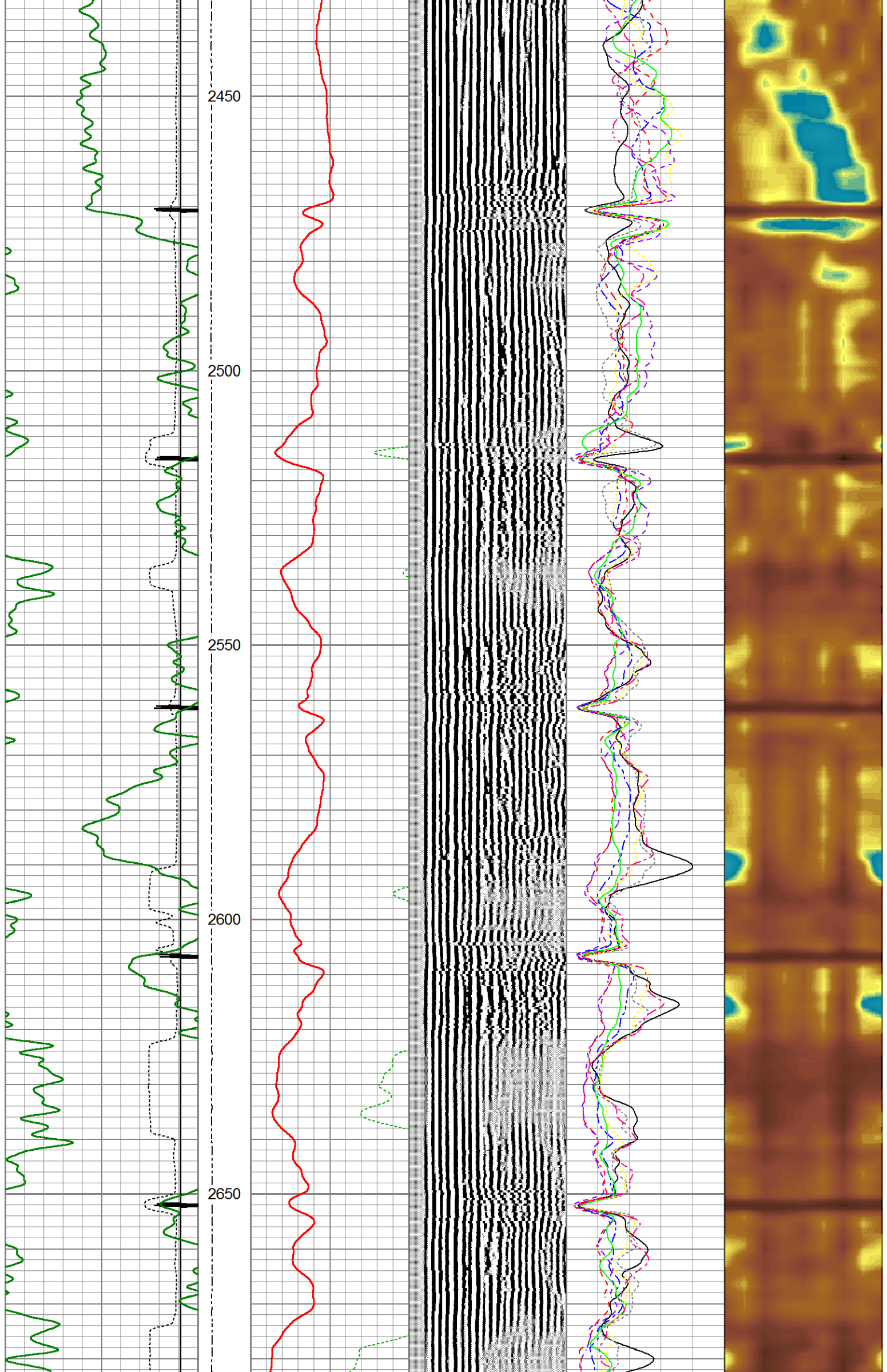


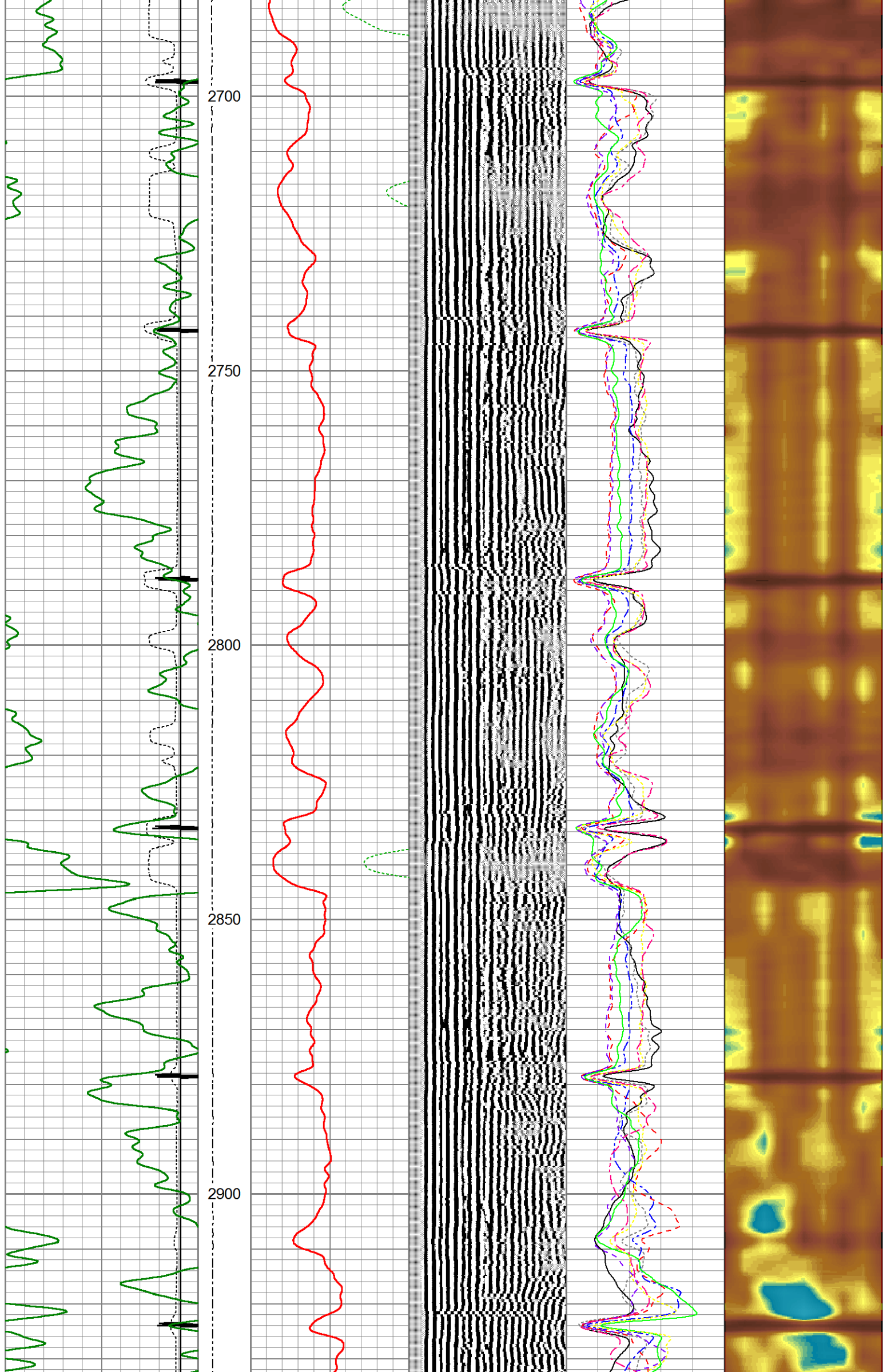


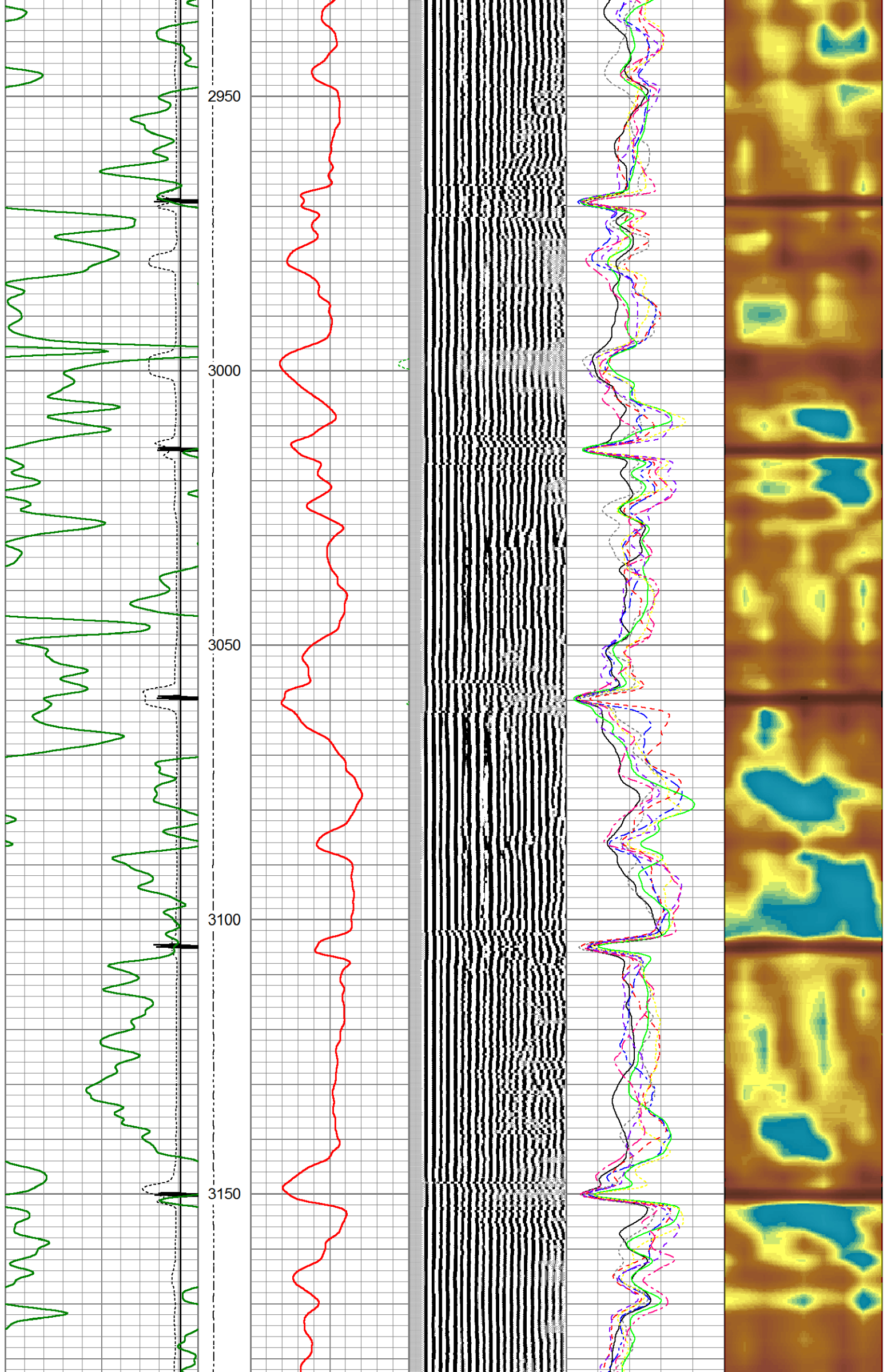


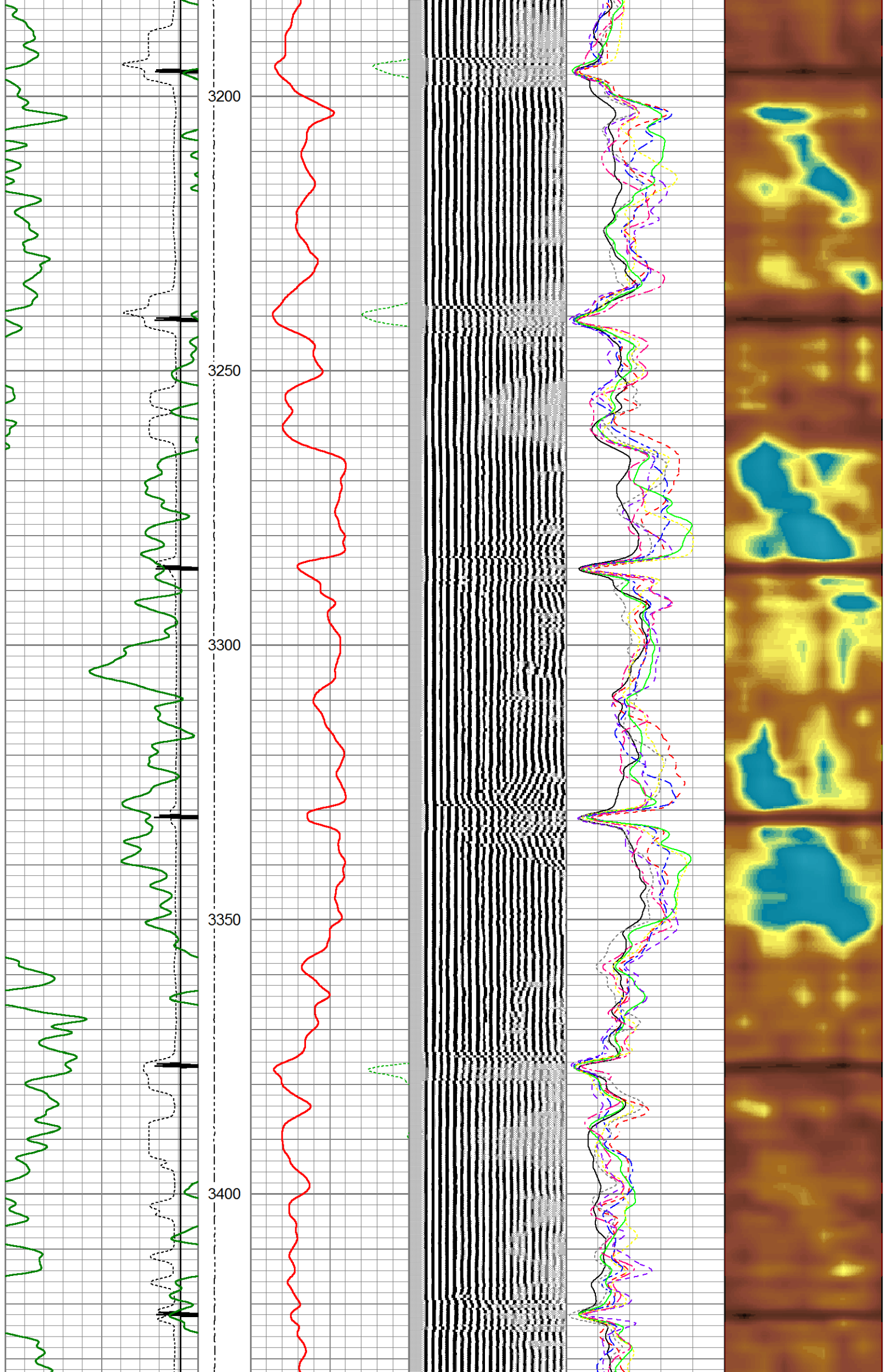


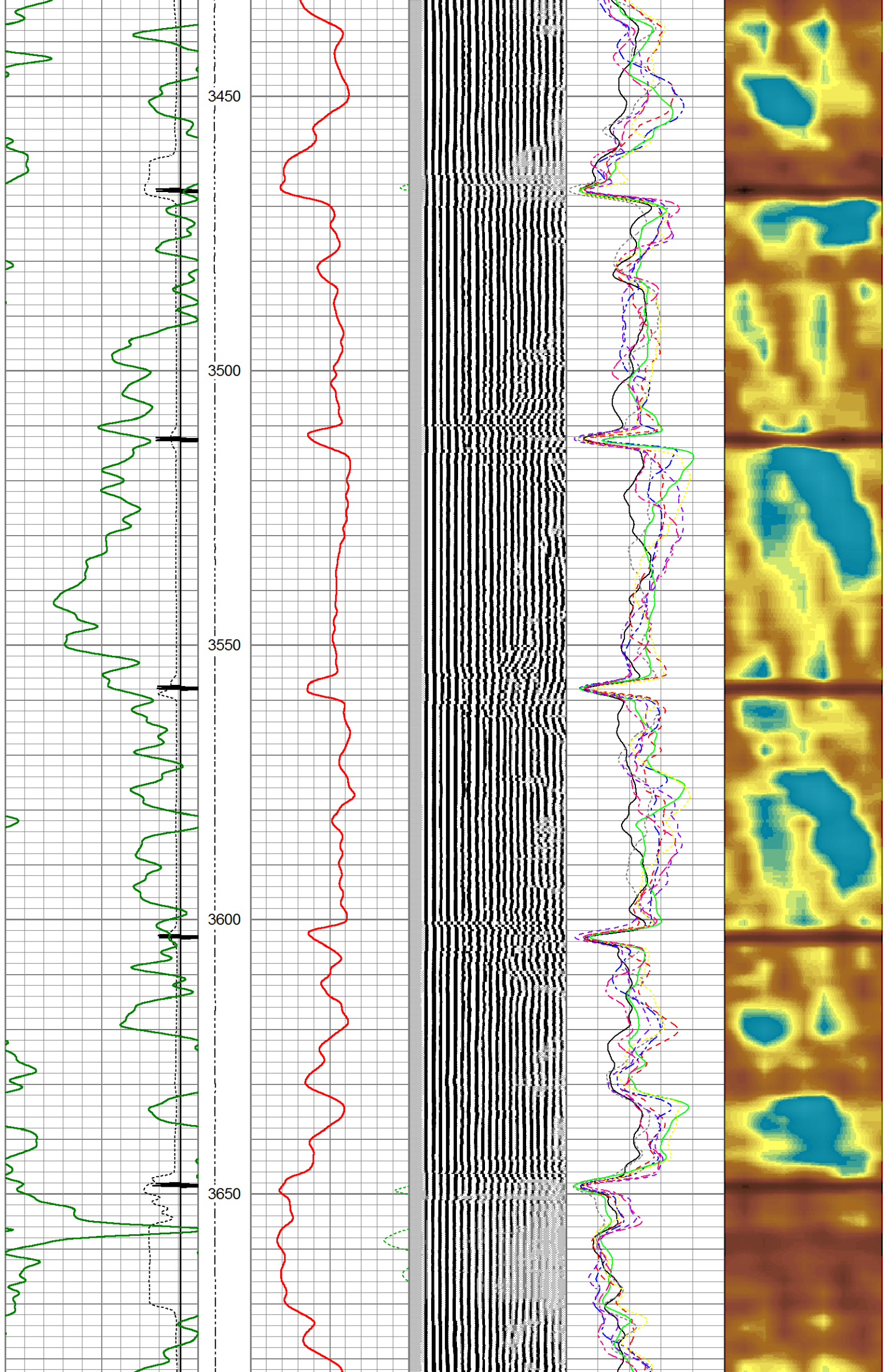


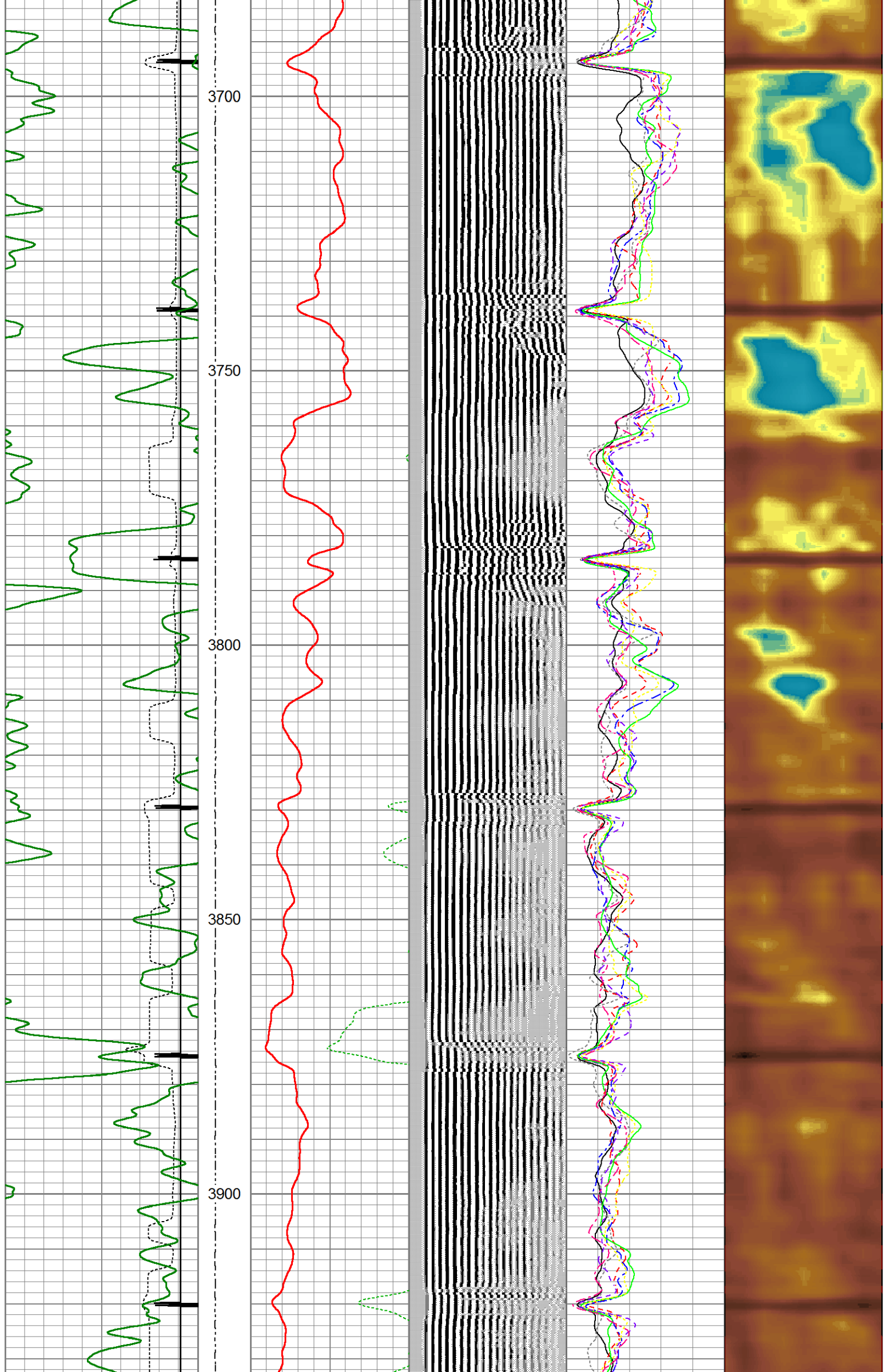


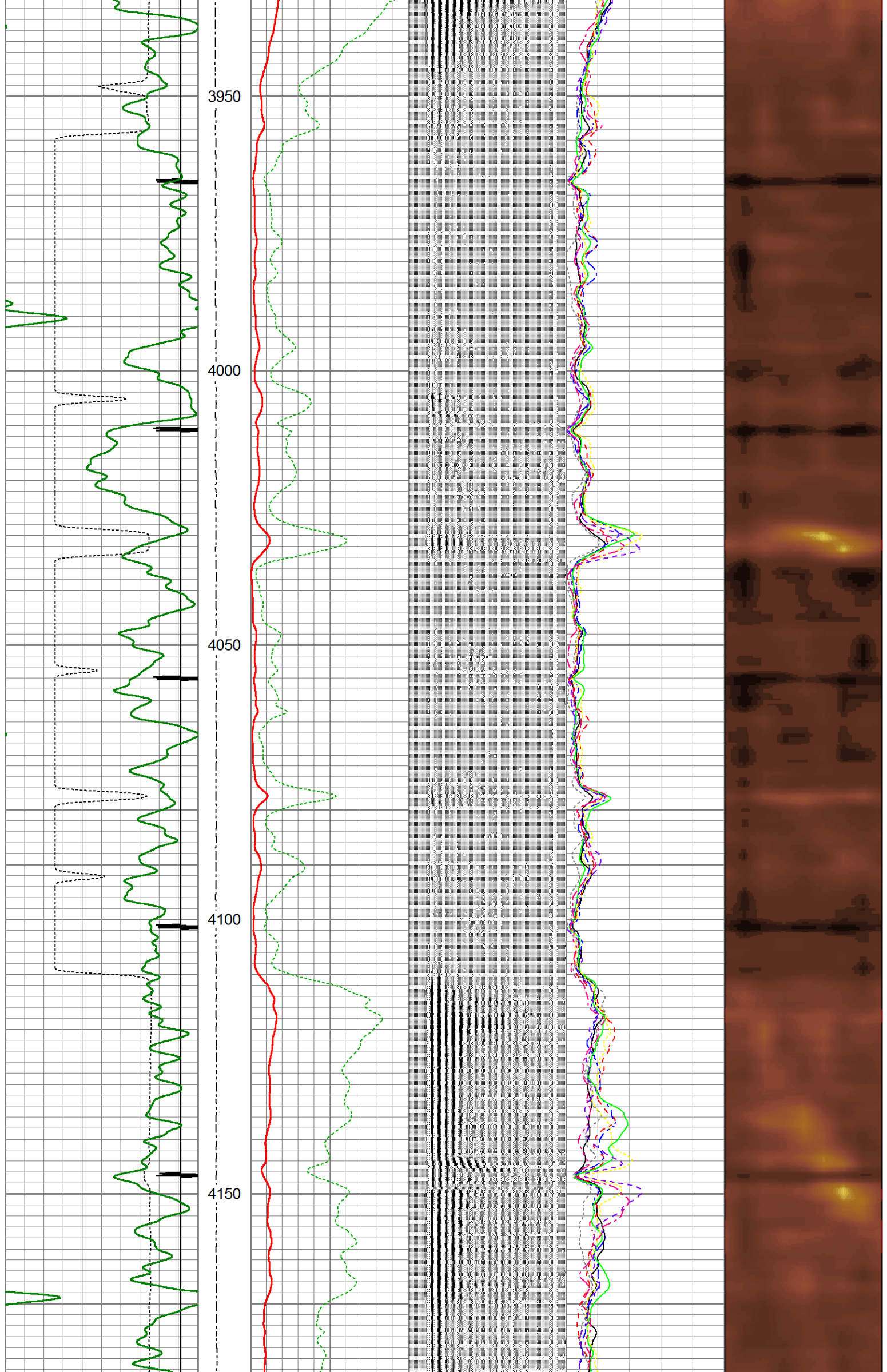


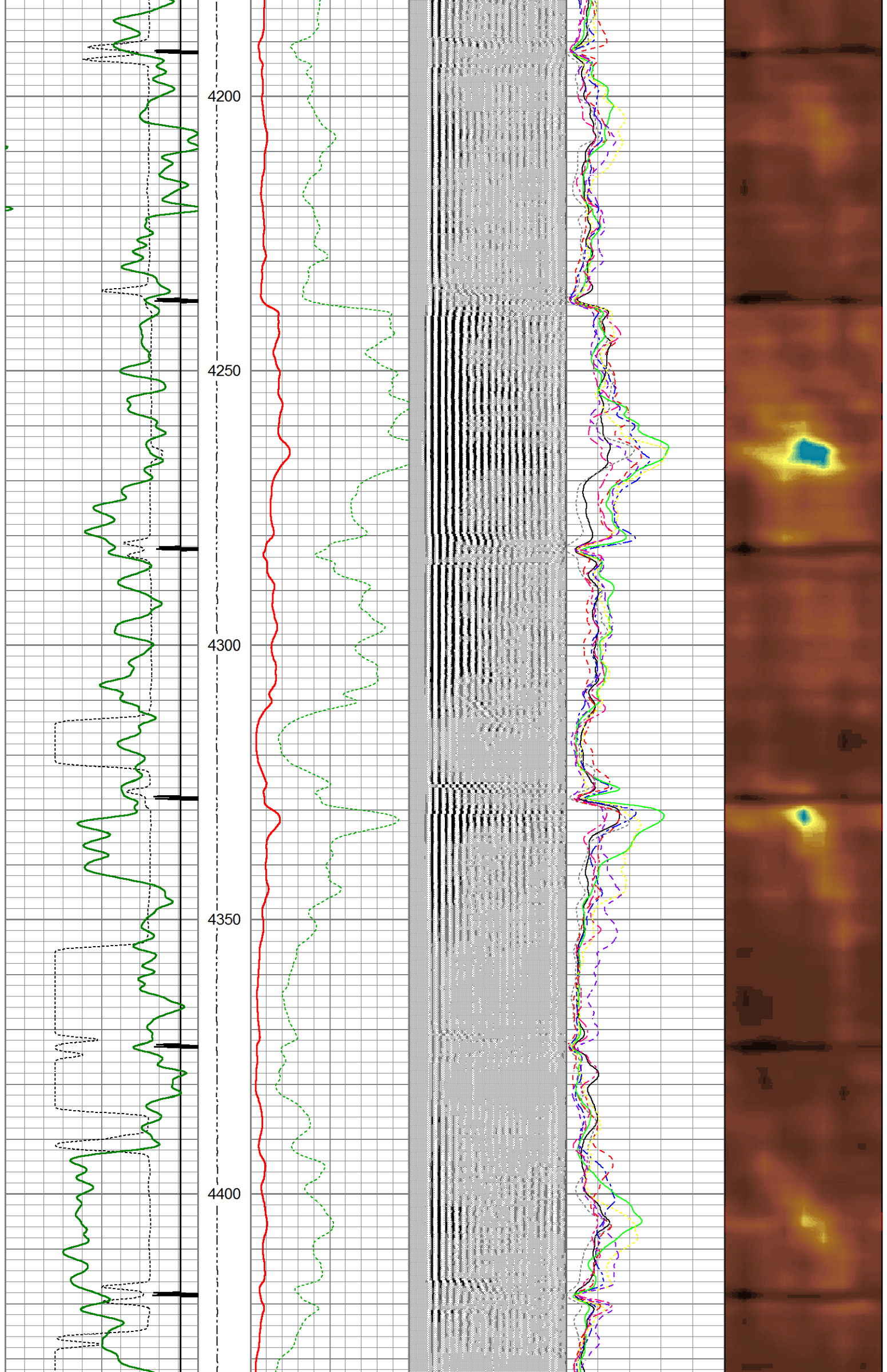


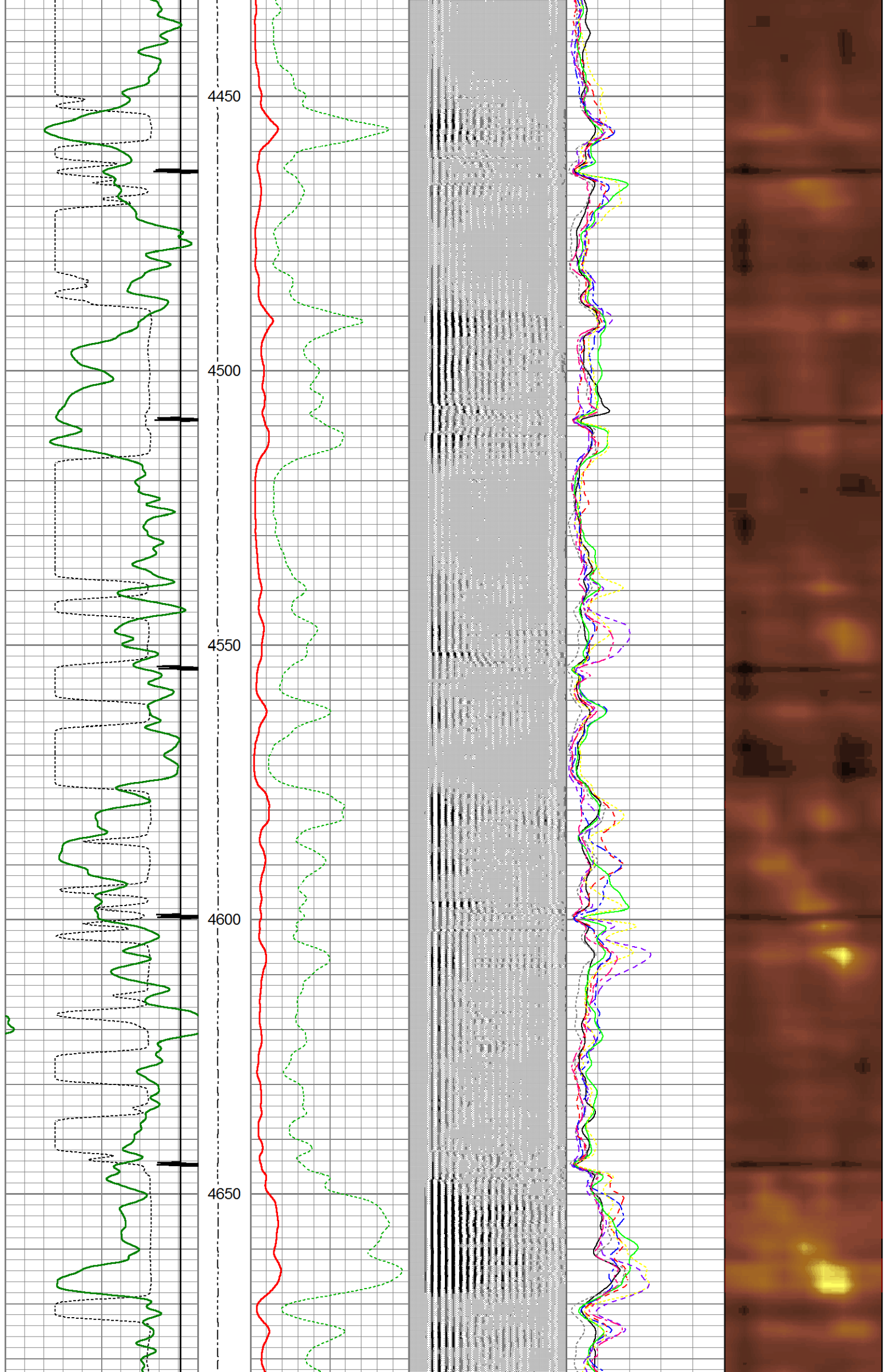


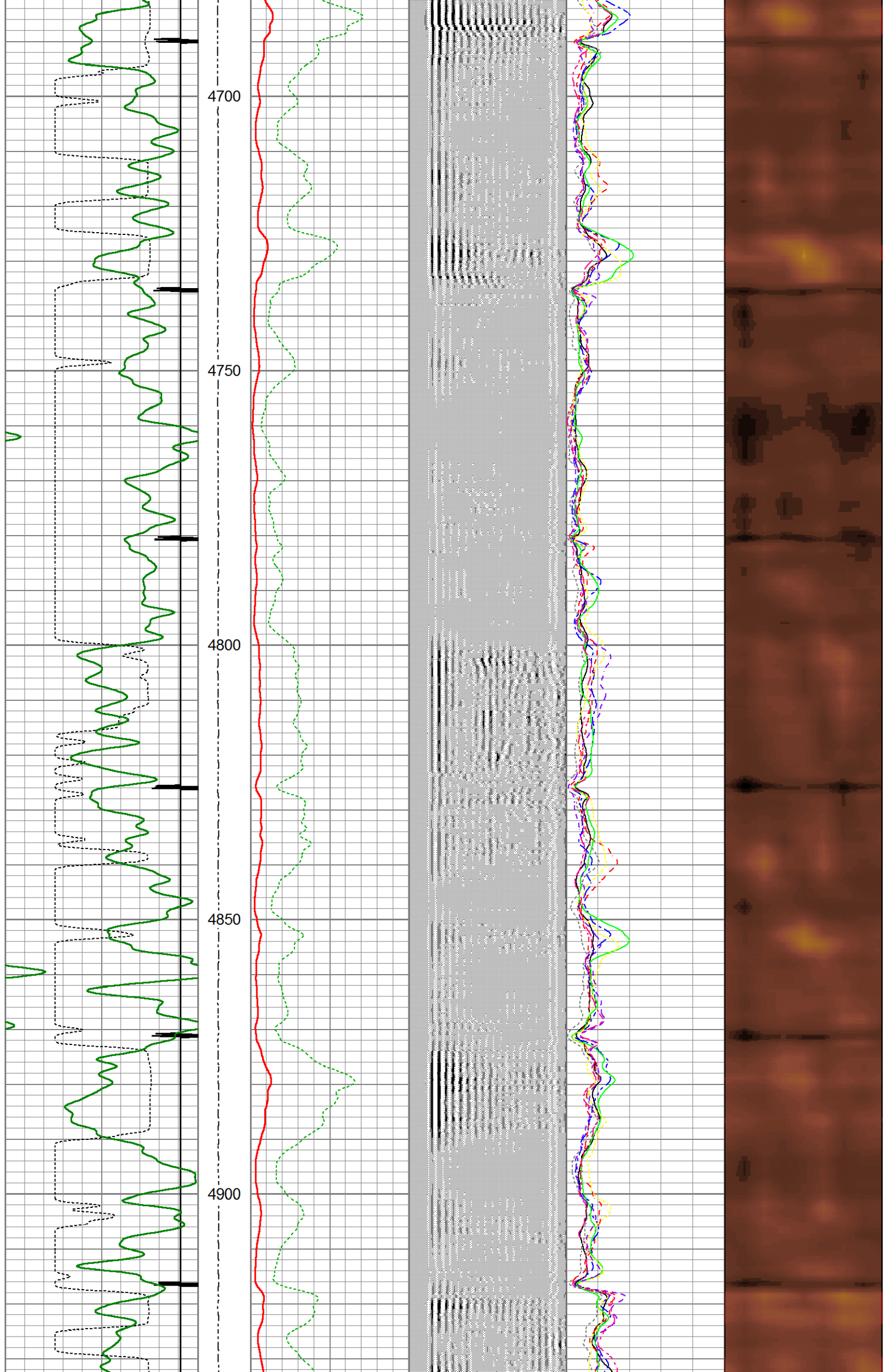


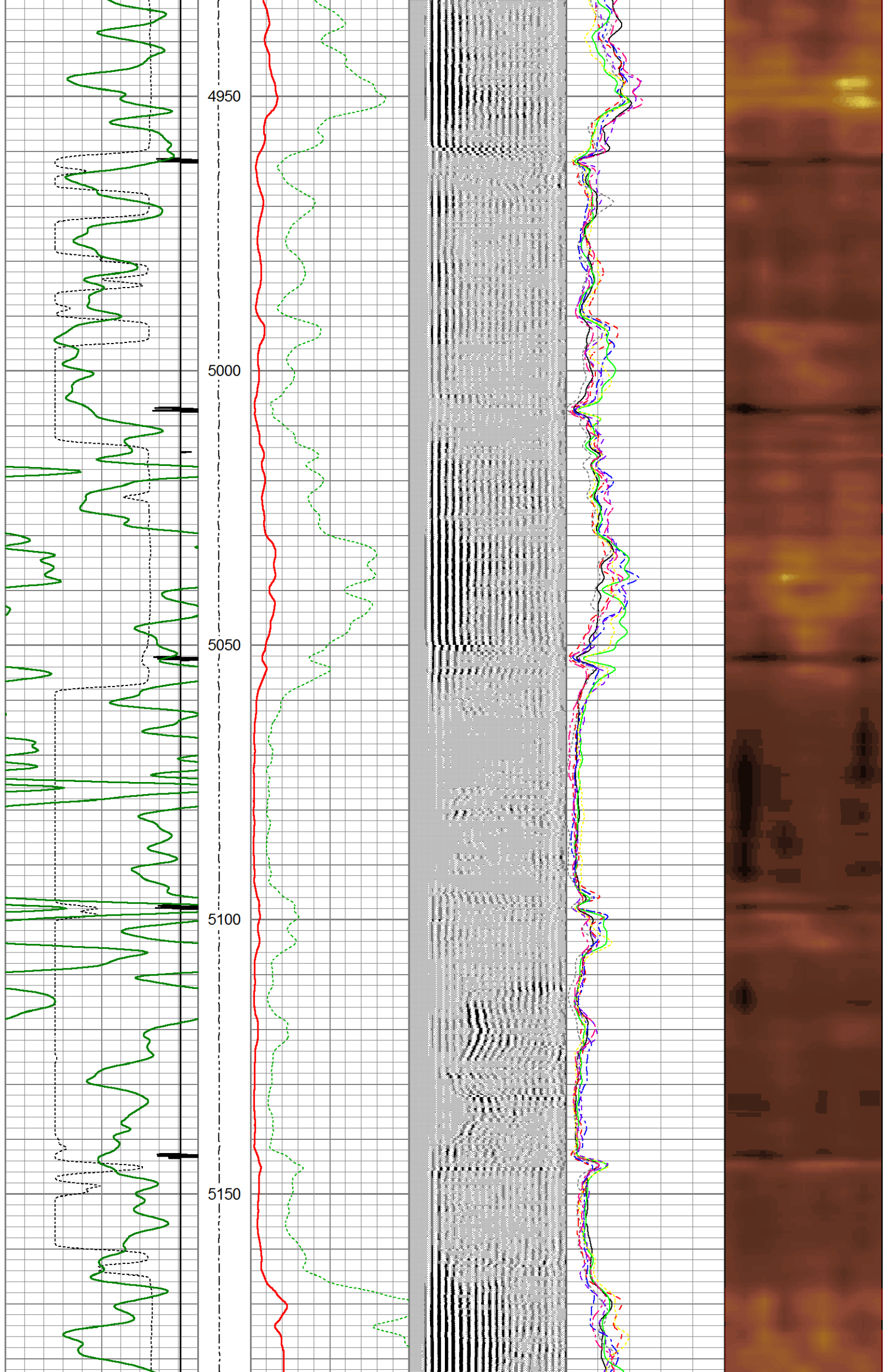


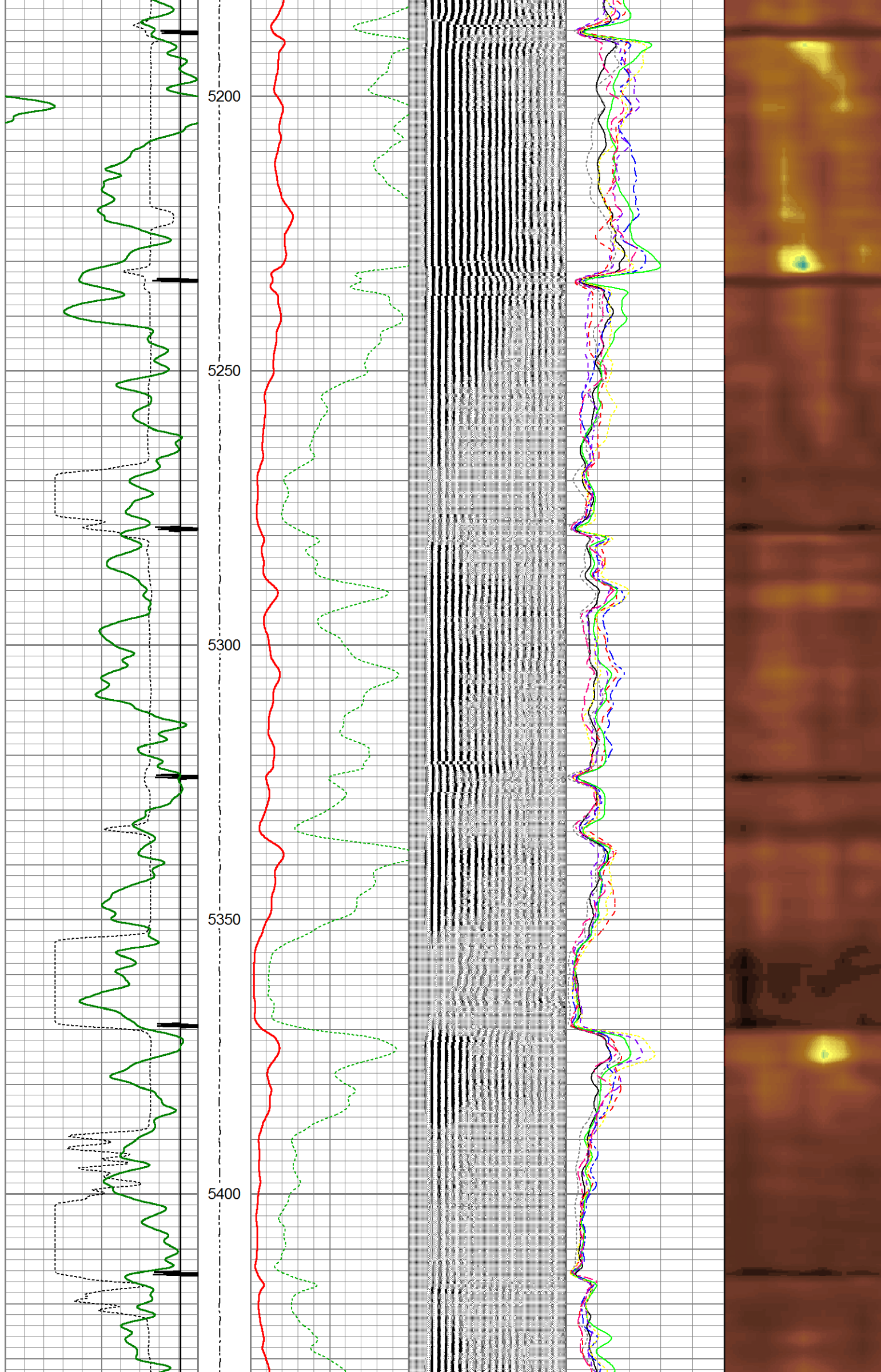


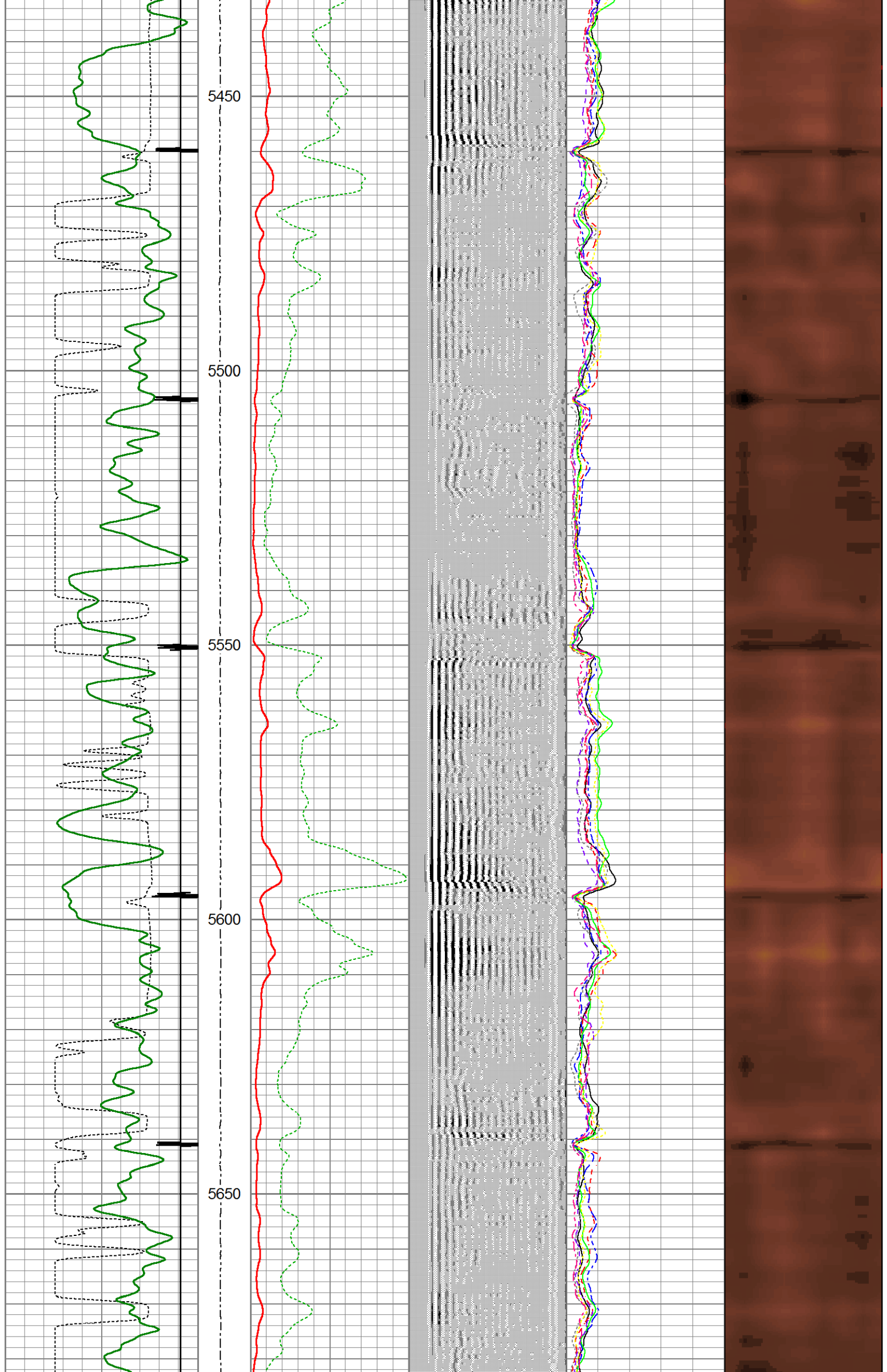


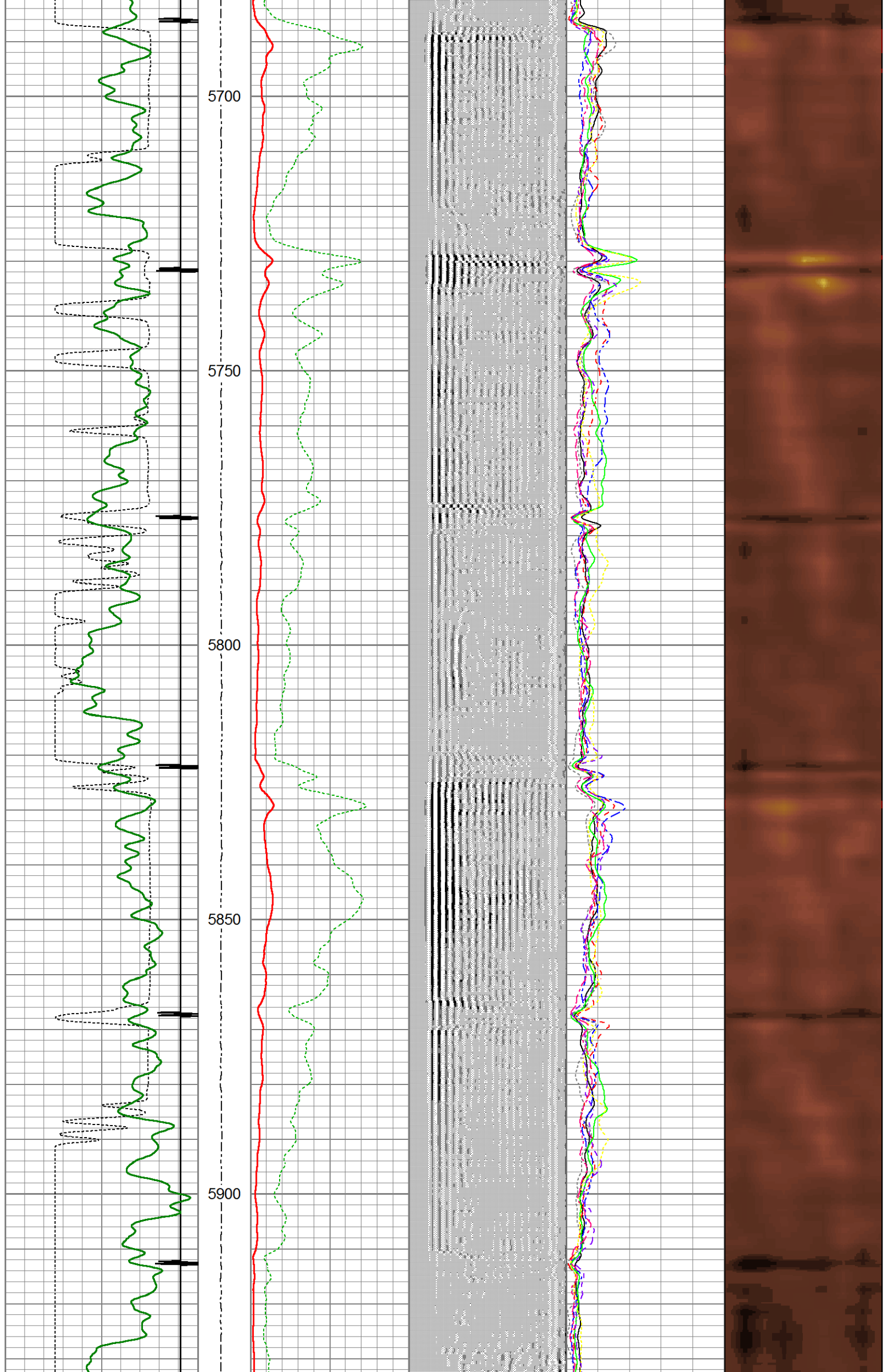


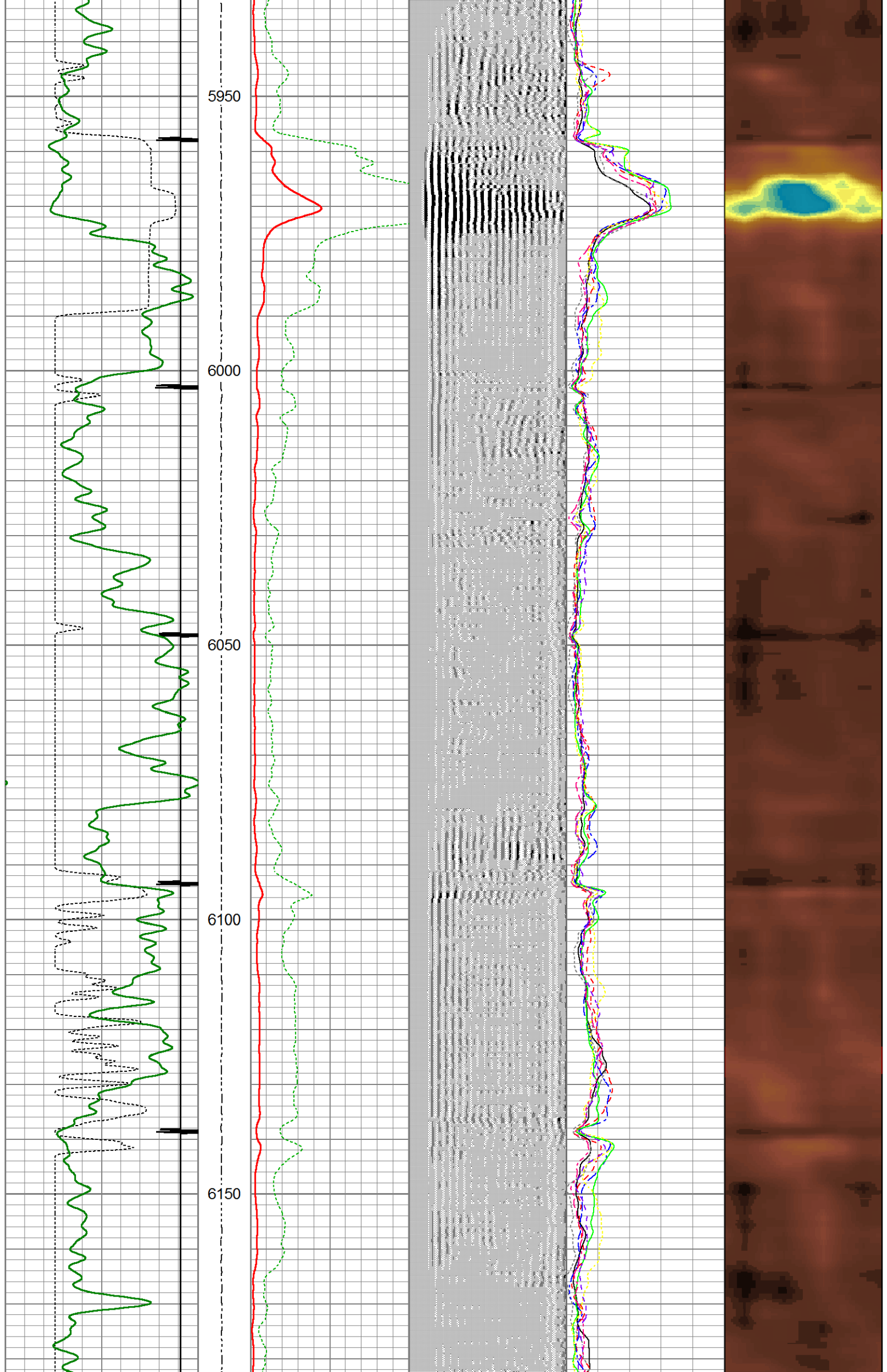


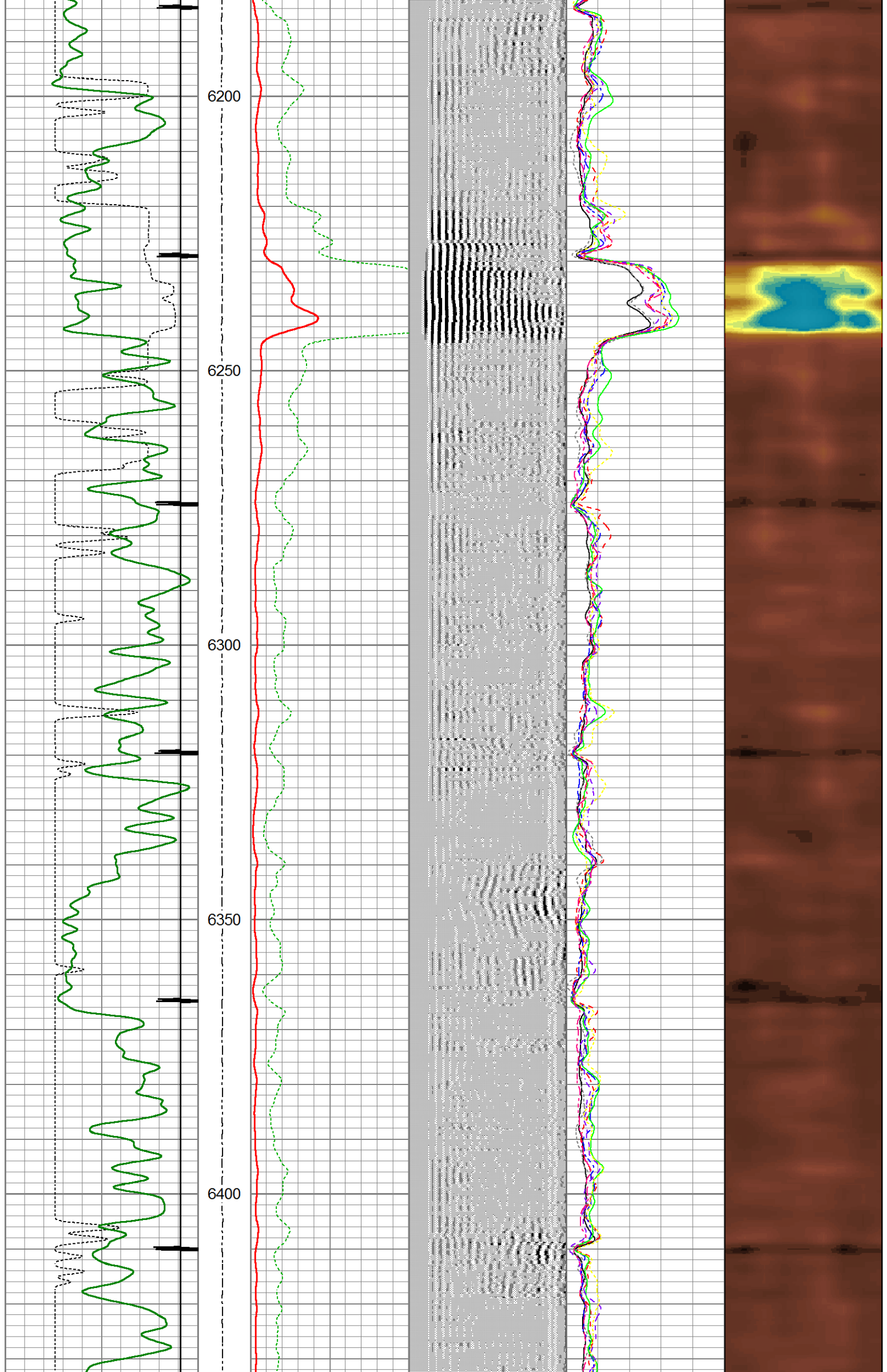


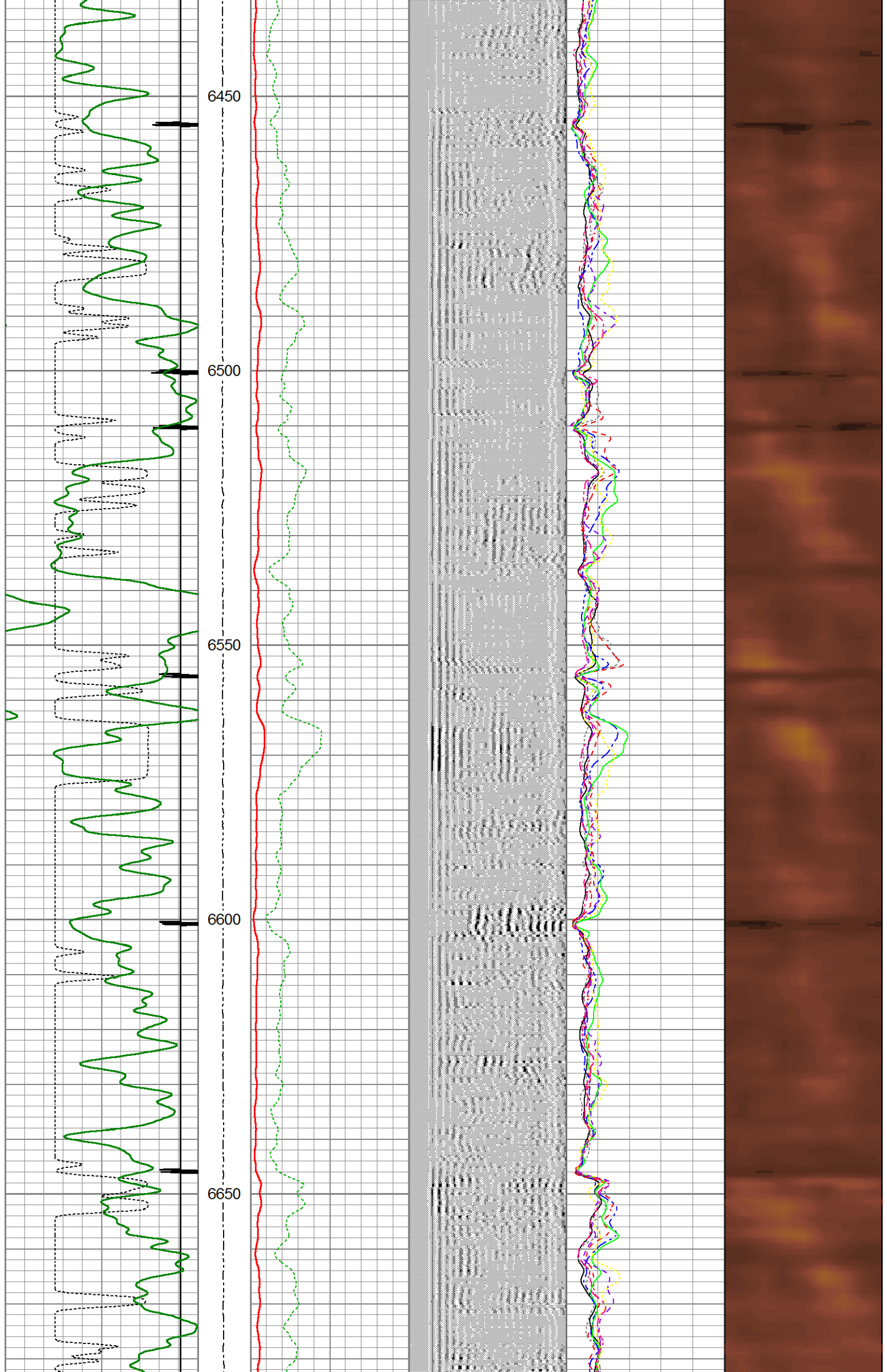


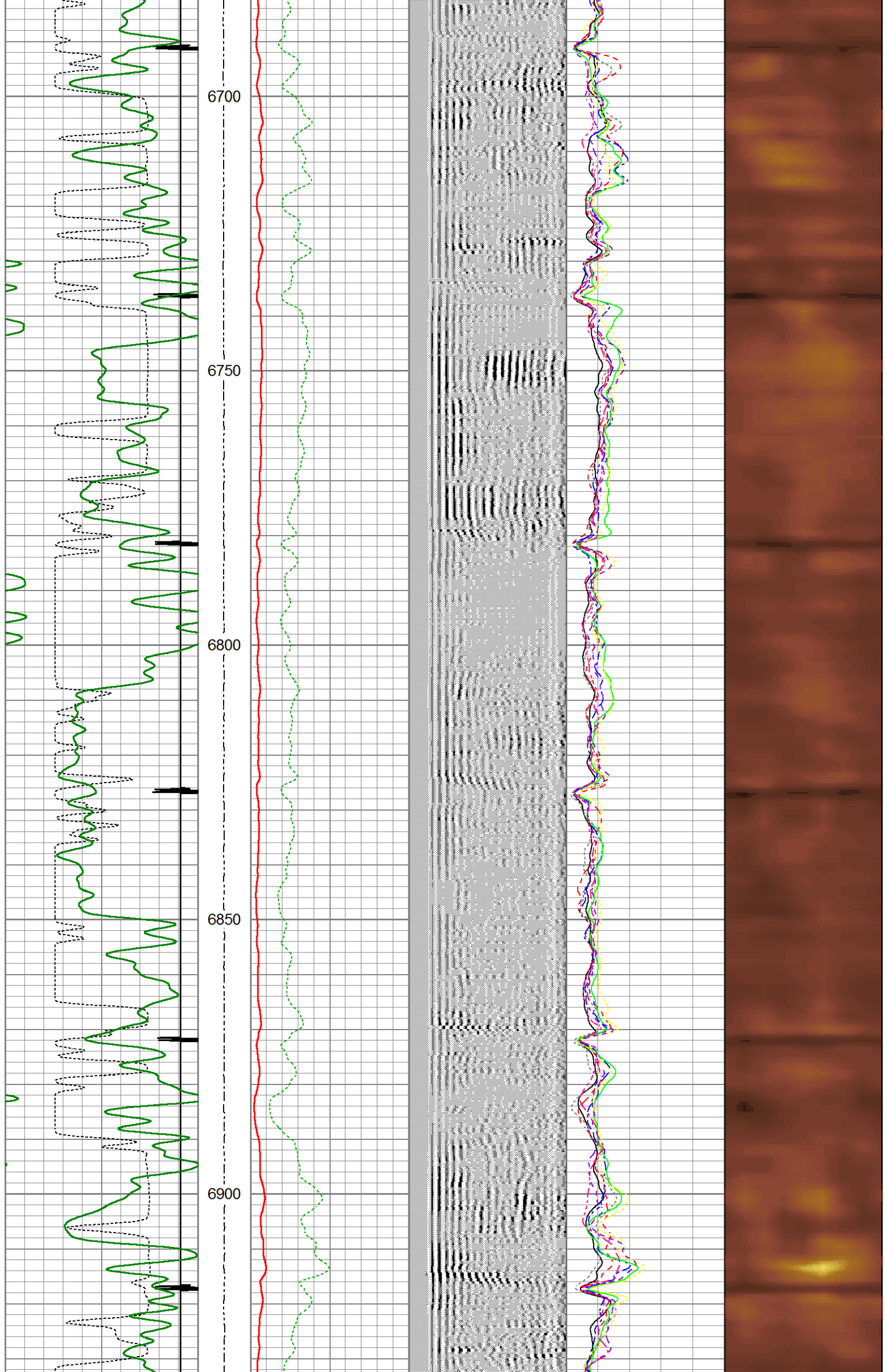


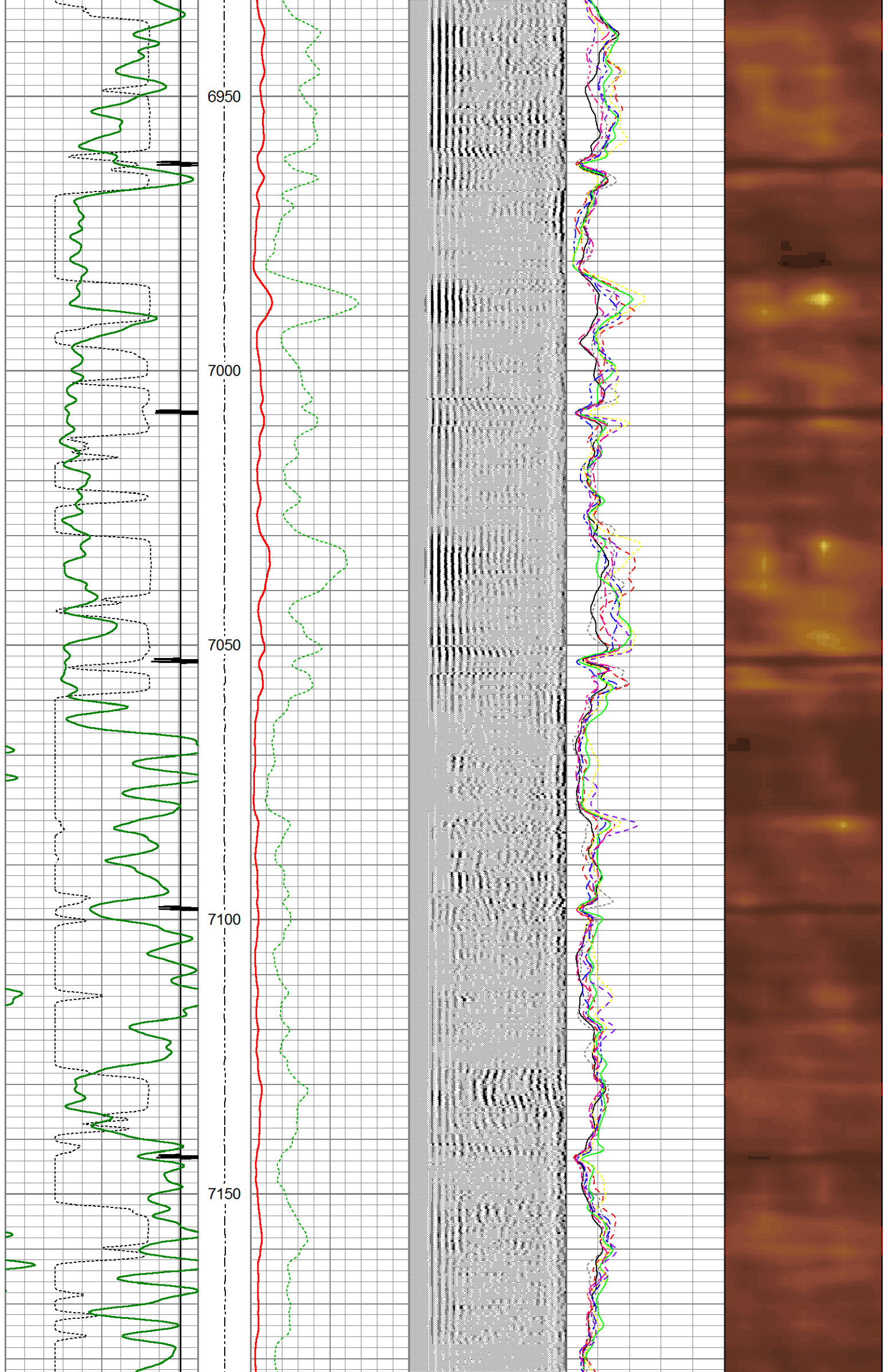


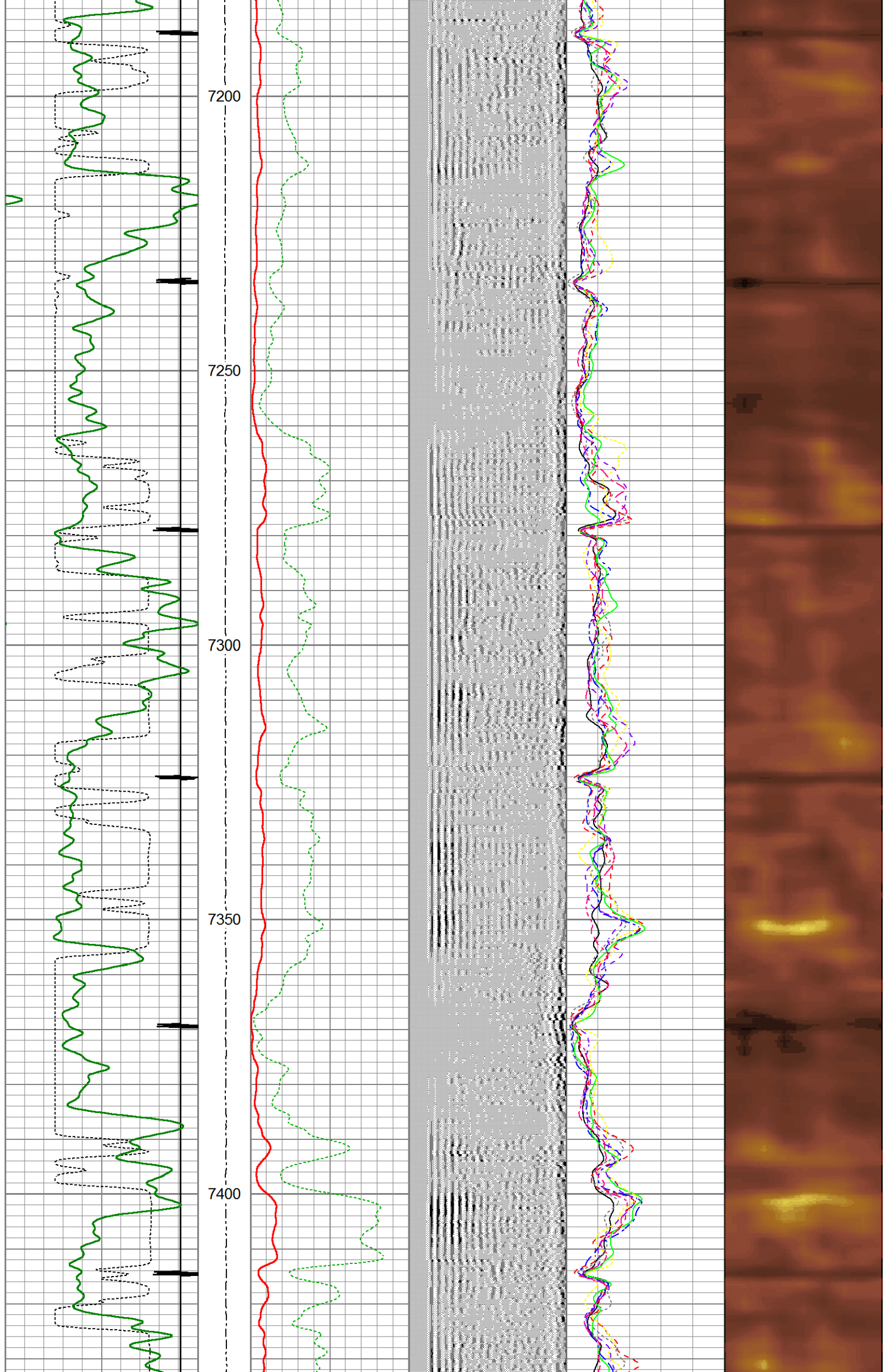


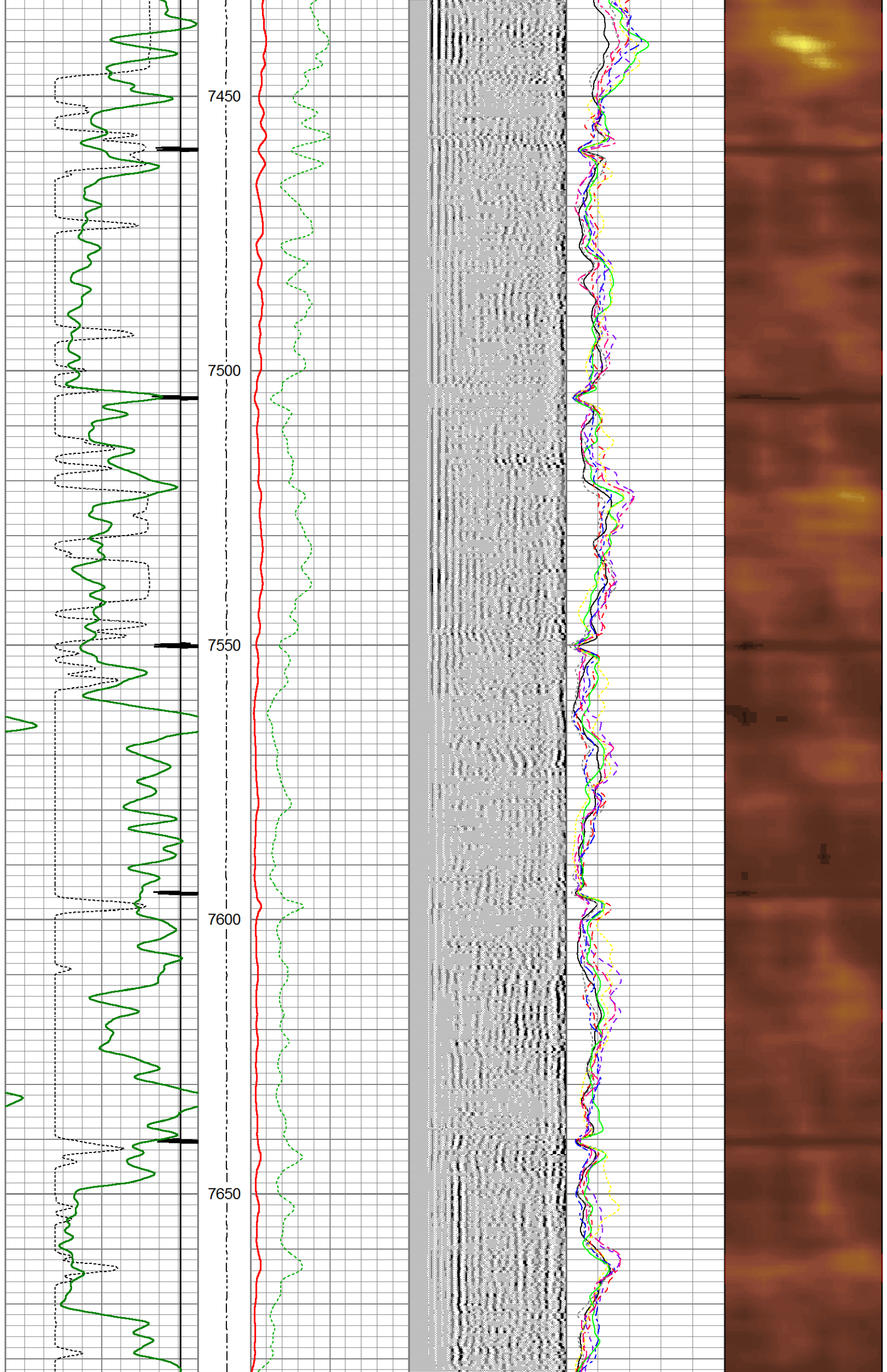


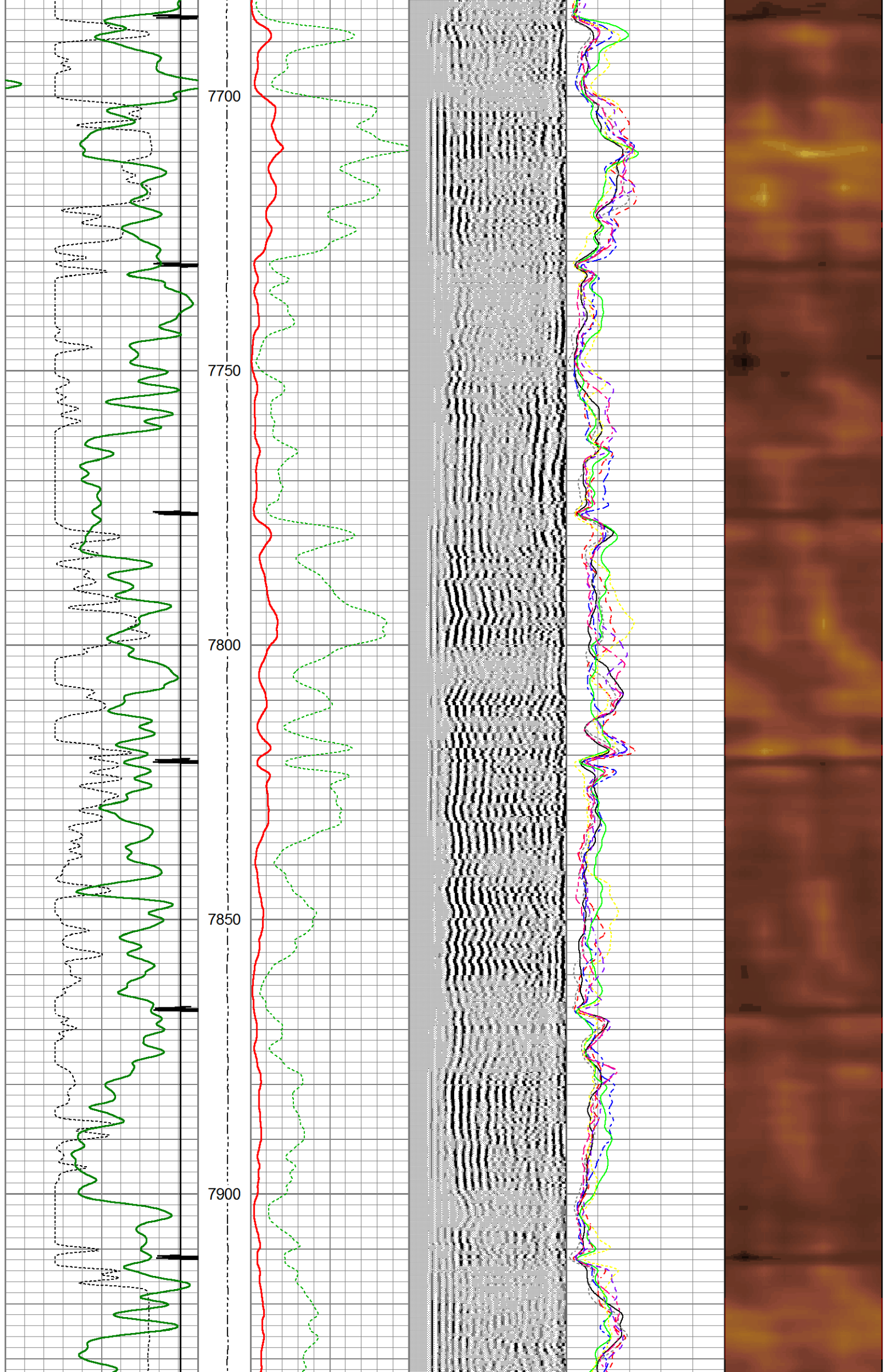


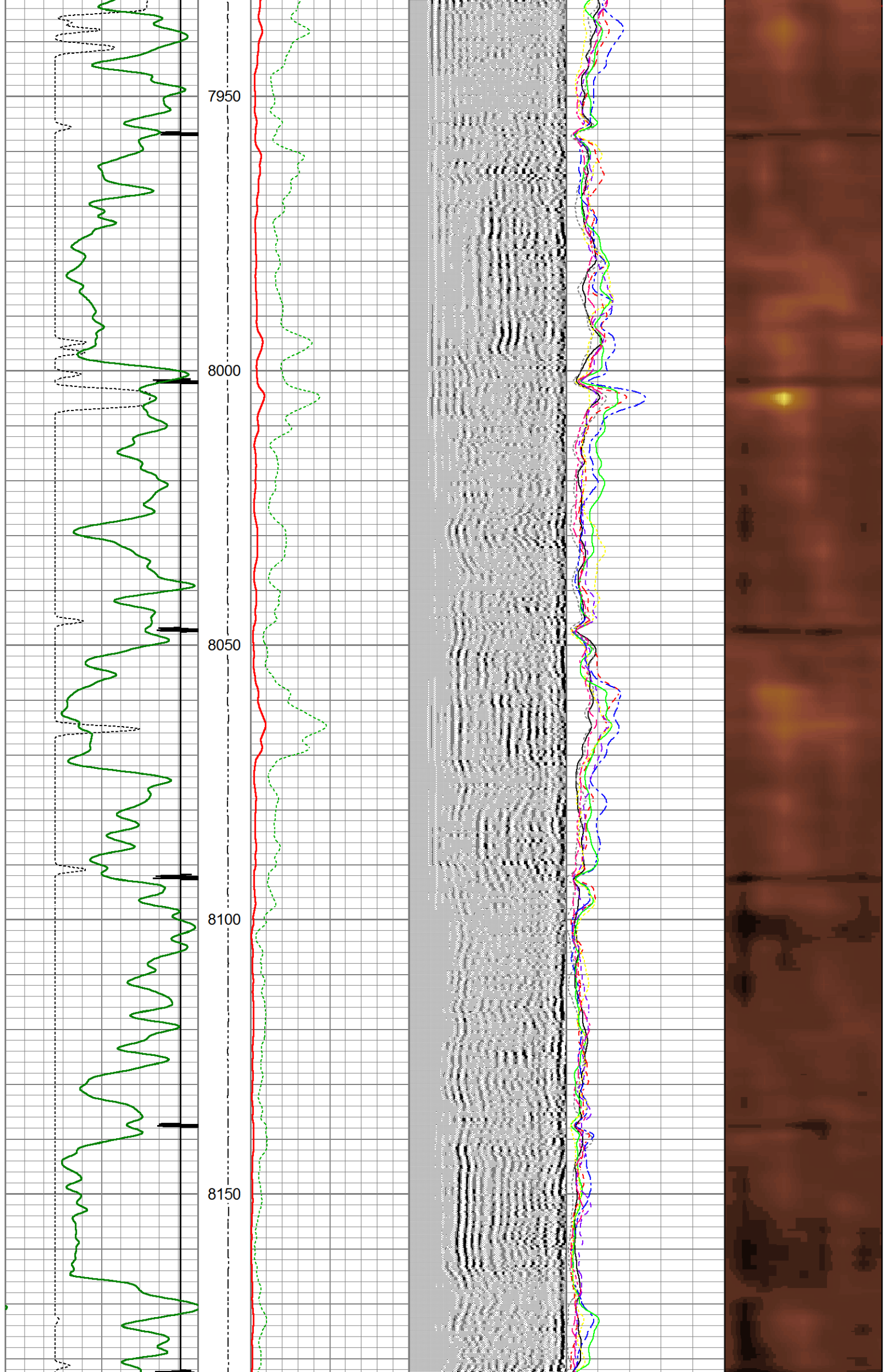


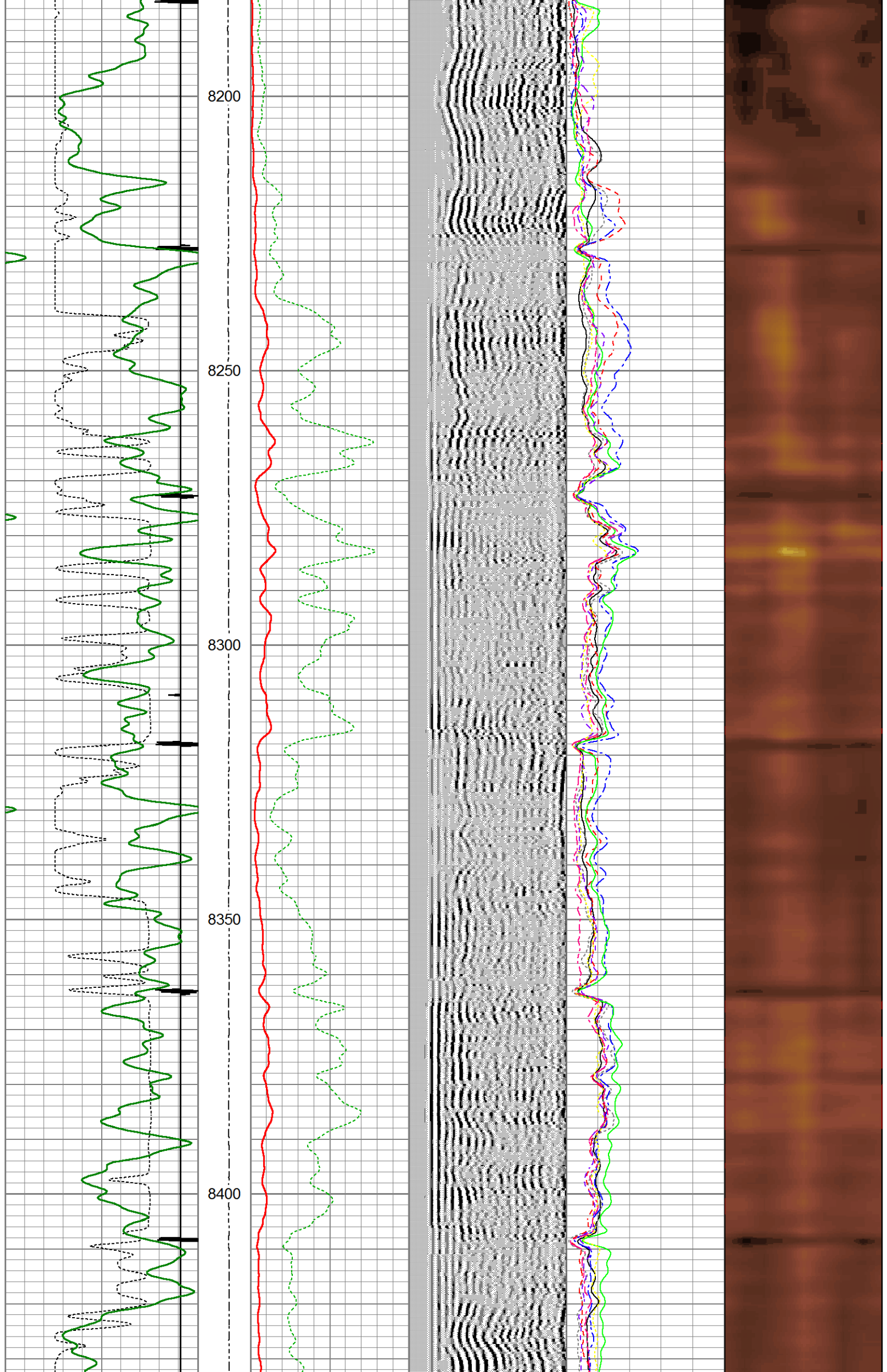


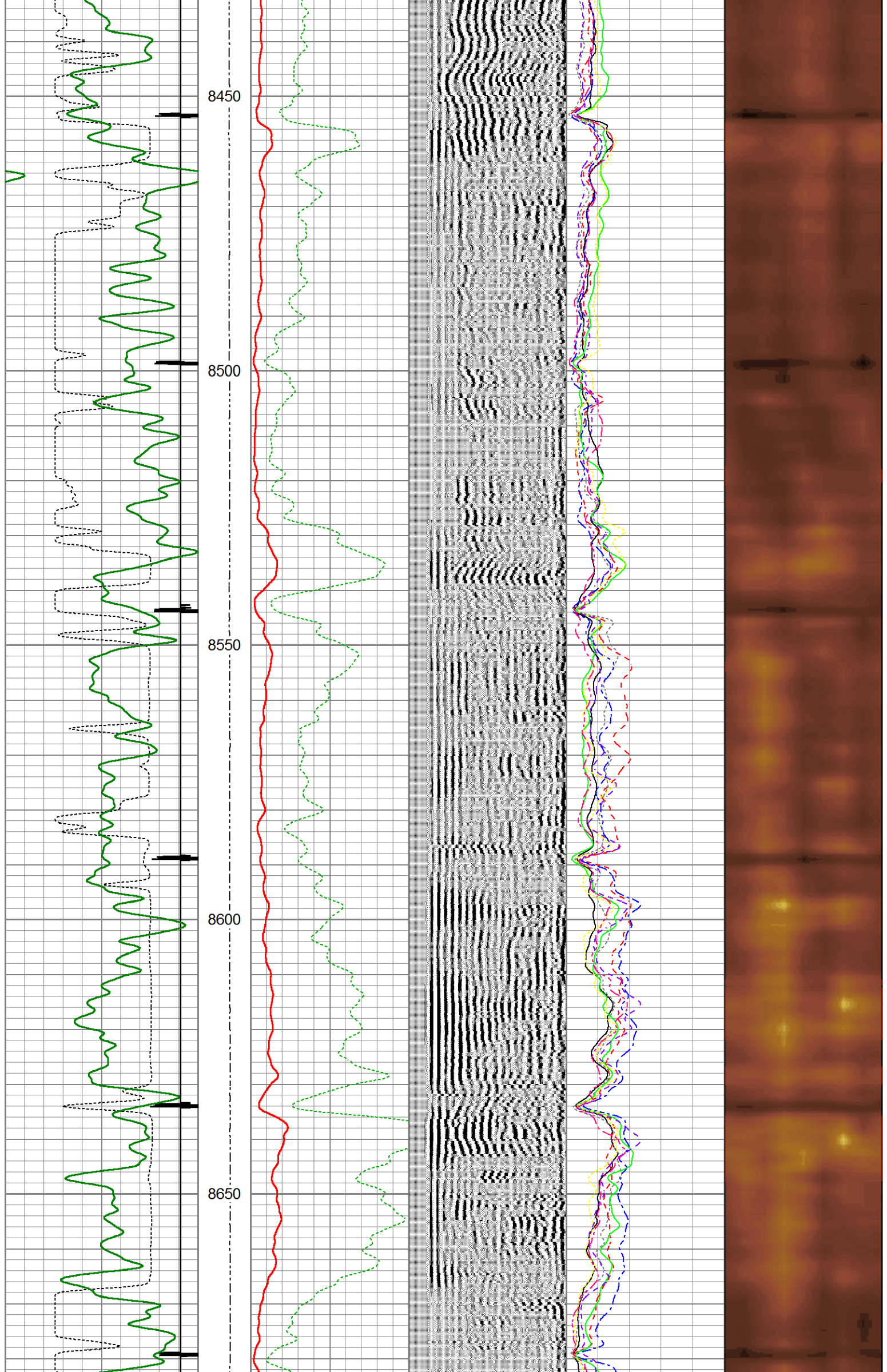


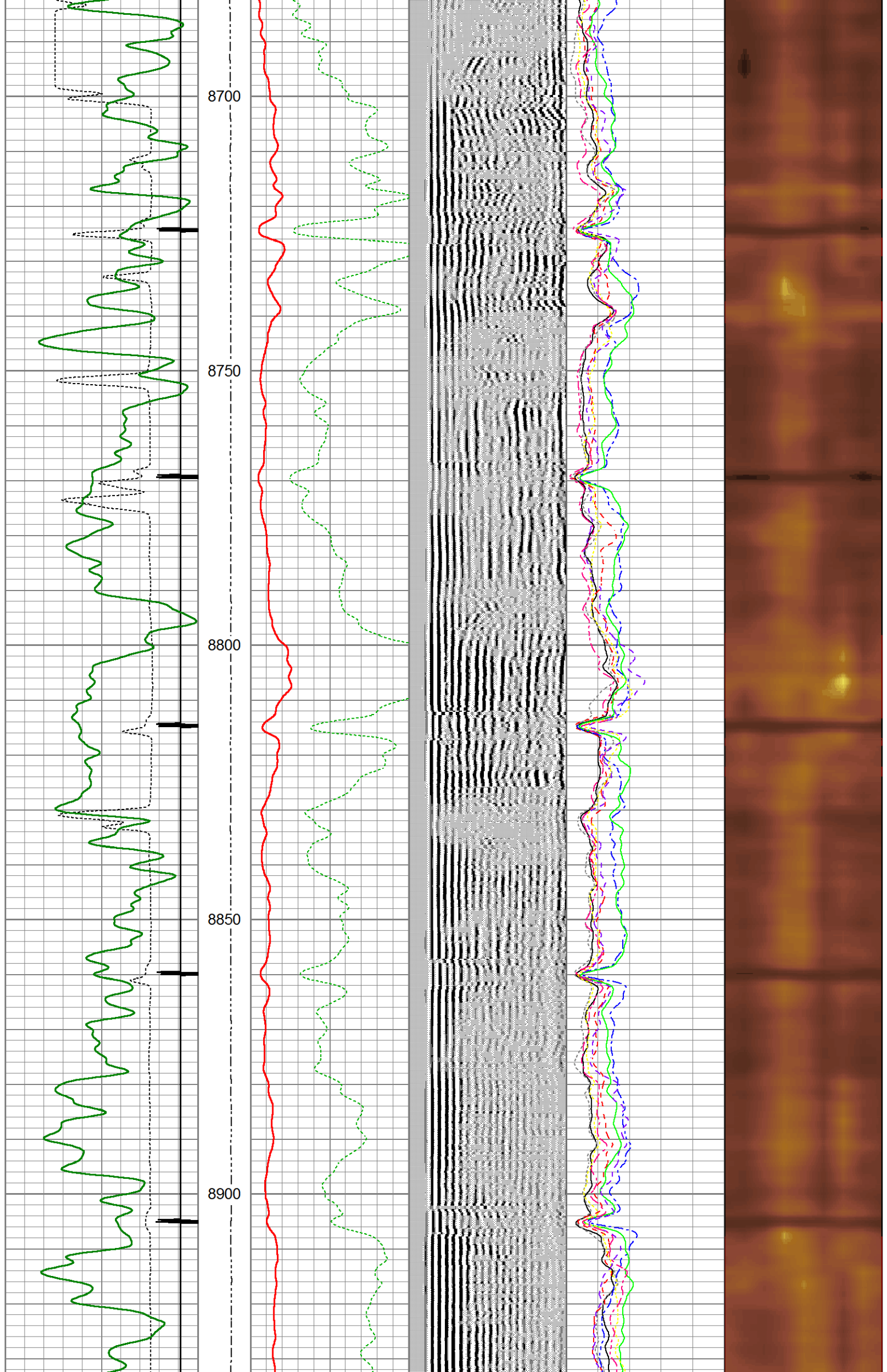


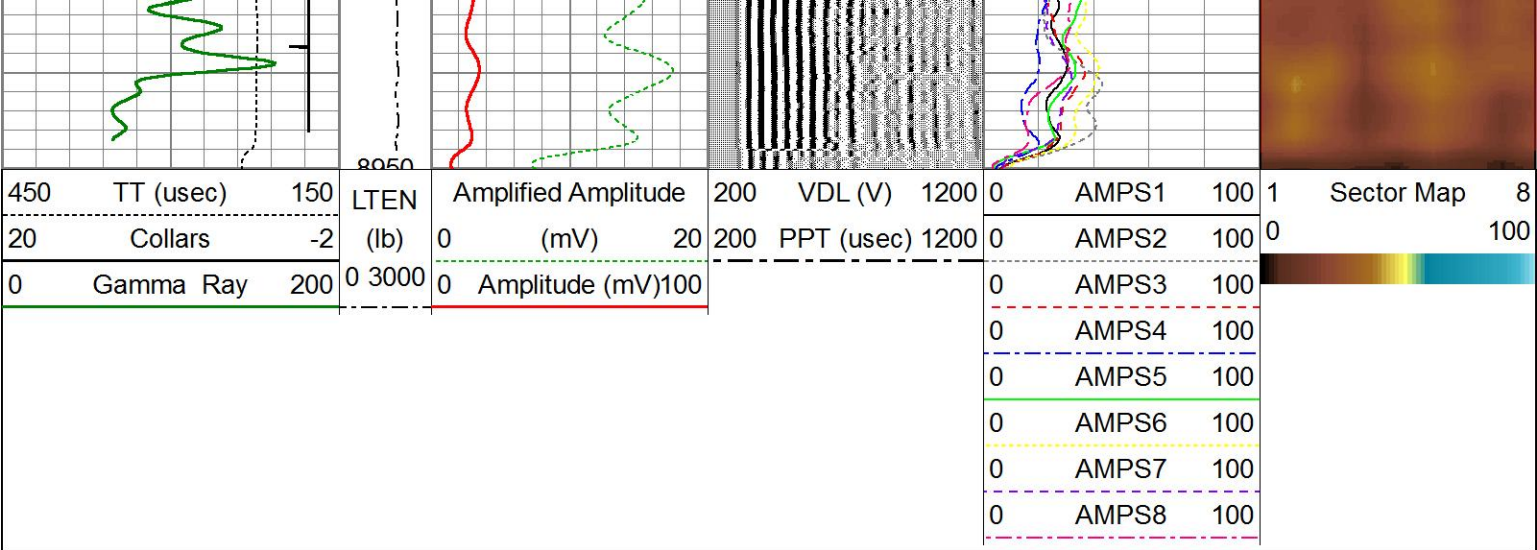












MAIN PASS

Weatherford®

SECTOR BOND LOG

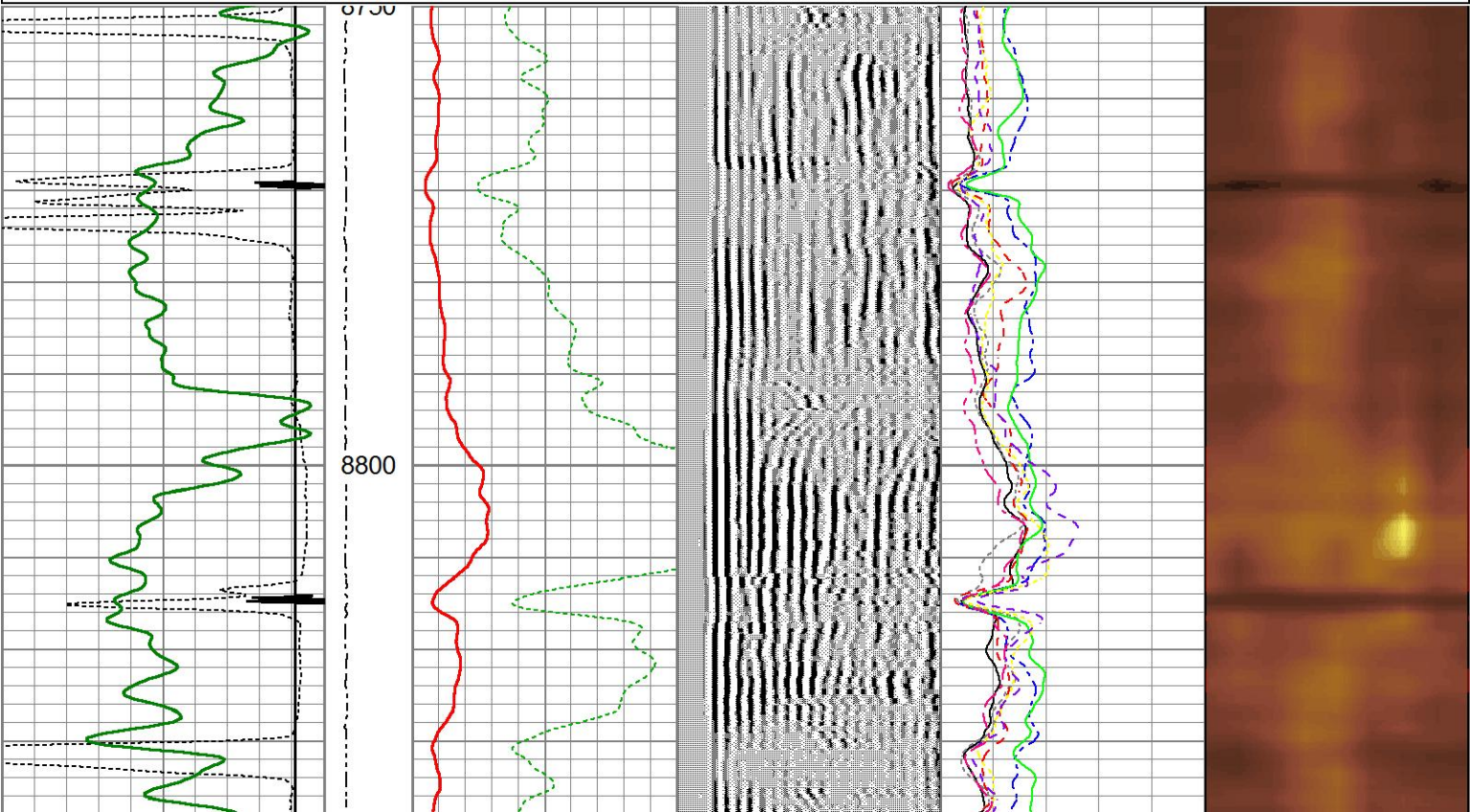
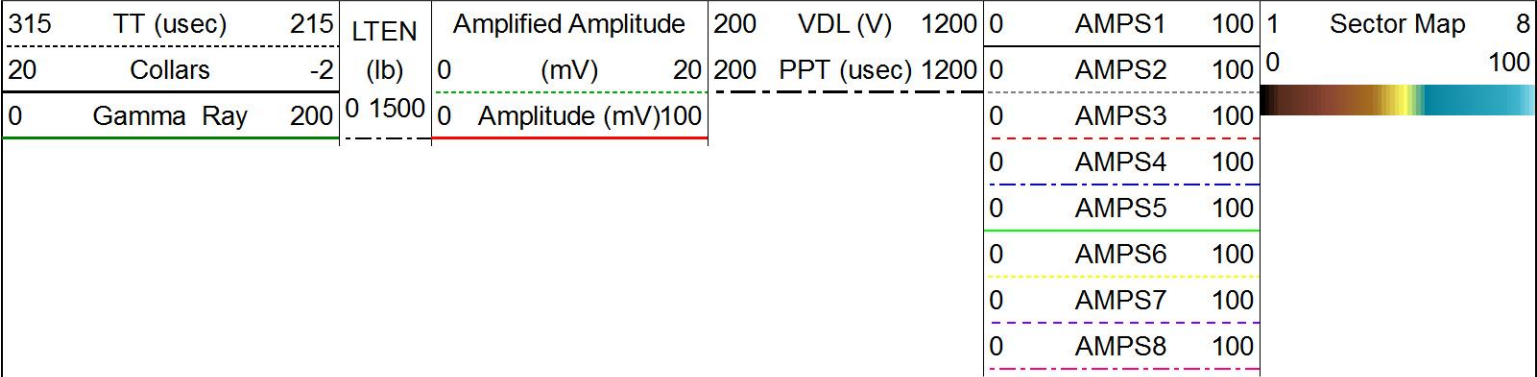


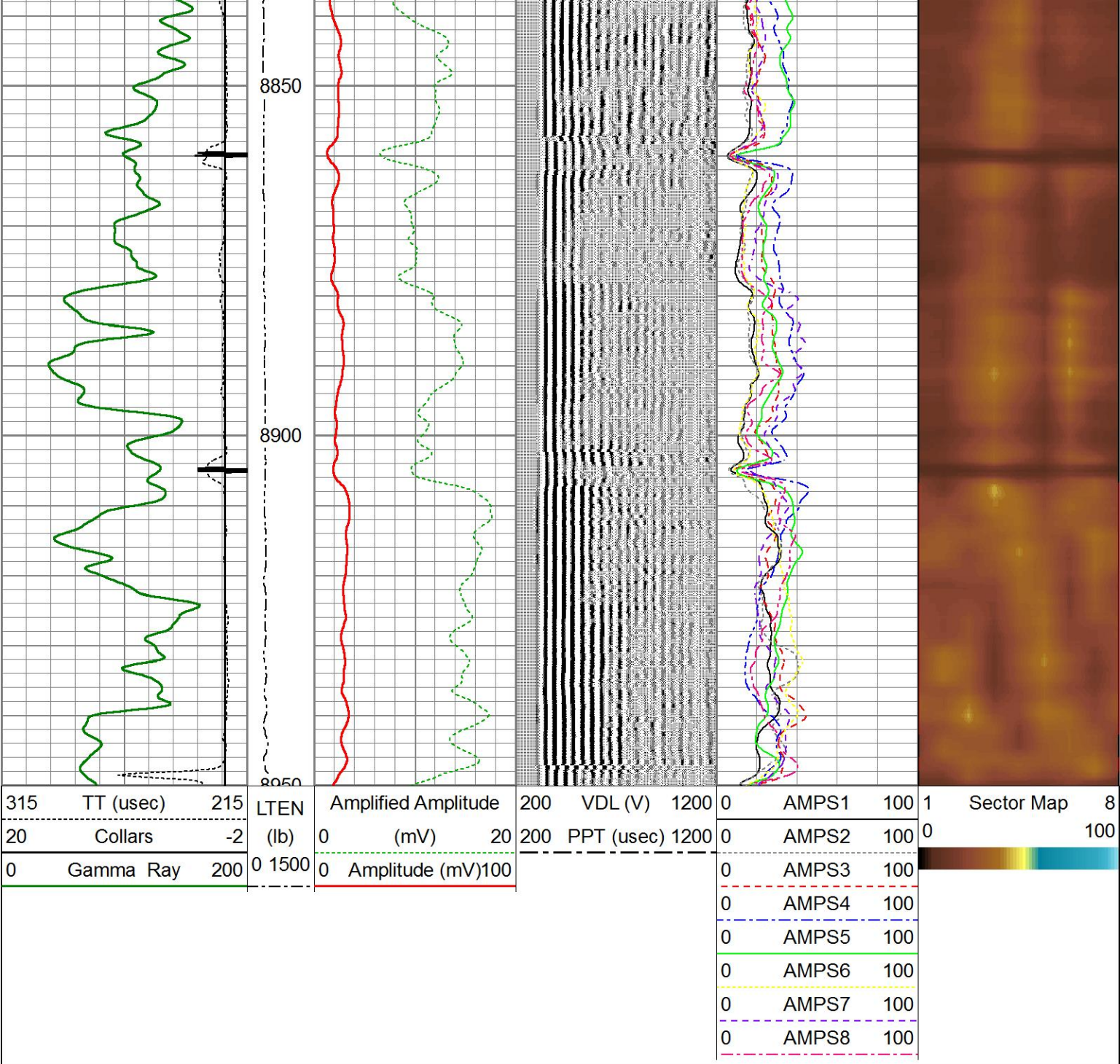
REPEAT PASS

Weatherford®

SECTOR BOND LOG

Database File caerus32c.db
Dataset Pathname pass3.1
Presentation Format sectors2
Dataset Creation Fri May 12 22:55:10 2017
Charted by Depth in Feet scaled 1:240






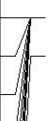
REPEAT PASS

SECTOR BOND LOG

Calibration Report						
Database File	caerus32c.db					
Dataset Pathname	pass3.1					
Dataset Creation	Fri May 12 22:55:10 2017					
Segmented Cement Bond Log Calibration Report						
Serial Number:	SBTA330					
Tool Model:	SCBT2.7H					
Performed:	Fri May 12 16:19:28 2017					
Depth:	590.340			ft		
Casing Diameter:	5.500			in		
	References (mv)		Readings (v)		Results	
	Zero	Reference	Zero	Reference	m	b
3'	0.600	80.000	-0.003	0.271	278.000	0.000
5'	0.600	80.000	-0.003	0.640	123.438	1.023
S1	0.000	85.000	-0.004	0.283	188.182	1.098

S2	0.000	85.000	-0.004	0.300	208.421	1.210
S3	0.000	85.000	-0.005	0.276	227.143	1.386
S4	0.000	85.000	-0.005	0.277	227.143	1.437
S5	0.000	85.000	-0.005	0.258	251.053	1.546
S6	0.000	85.000	-0.005	0.280	251.053	1.455
S7	0.000	85.000	-0.005	0.286	227.143	1.406
S8	0.000	85.000	-0.004	0.269	230.000	1.349

Gamma Ray Calibration Report						
Serial Number:		GRBA 160				
Tool Model:		GRBA2.7H				
Performed:		Thu Mar 09 10:01:02 2017				
Calibrator Value:		140.0				
Background Reading:		20.0	cps			
Calibrator Reading:		280.0	cps			
Sensitivity:		0.7000	/cps			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	23.43		CablHD-Weatherford 1 7/16 Cable Head	1.00	1.44	5.00
			CENT-CEN-A SBT Centralizer 2-3/4" Single Pin (4 Bowspring)	2.50	2.75	11.90
			CCLL-CTBA2.7H (CTBA 224) 2-3/4" 350F/20K PSI Weatherford Logging CCL/Telemetry (6Pin Bottom)	3.40	2.75	
GR	19.82		GR-GRBA2.7H (GRBA 160) 2 3/4" 350F/20K PSI Weatherford Gamma Ray (6Pin)	4.76	2.75	40.00
			CENT-CEN-B SBT Centralizer 2-3/4" 6Pin (4 Bowspring)	3.08	2.75	23.80
WVFS8 WVFS7 WVFS6	7.70 7.70 7.70		SCBT-SCBT2.7H (SBTA330) 2 3/4" 350F/20K PSI Weatherford Sector Bond Tool	10.29	2.75	90.00

[illegible]