 <div>SECTOR BOND LOG</div>									
COMPANY WELL FIELD COUNTY STATE/COUNTRY LOCATION					CAERUS PUCKETT 32B-26 GRAND VALLEY GARFIELD COLORADO NORTH PARACHUTE				
SEC	26	TWP	6S	RGE	97W	Other Services			
Latitude		39.498808			Elevation 8396 Elevations: K.B. 8426 D.F. 8426 G.L. 8396				
Longitude		-108.182317							
API Number		05-045-23360							
Permanent Datum		GL							
Log Measured From		KB							
Drilling Measured From		KB							
Date					12 MAY 17				
Run Number					1				
Service Order					TBD				
Type Log					SBT				
Depth Driller					9007				
Depth Logger					8970				
Top Log Interval					0				
Bottom Log Interval					8970				
Hole Fluid Type					H2O				
Hole Fluid Level					160				
Restriction ID					NA				
Max. Recorded Temp.					NA				
Well Head Pressure					NA				
Well Head Equipment					NA				
Time Well Ready					1600				
Time Logger on Bottom					SEE LOG				
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 Fileg:\caerus puckett pad day 1\puckett 32b-26 sbt\caerus32b.db

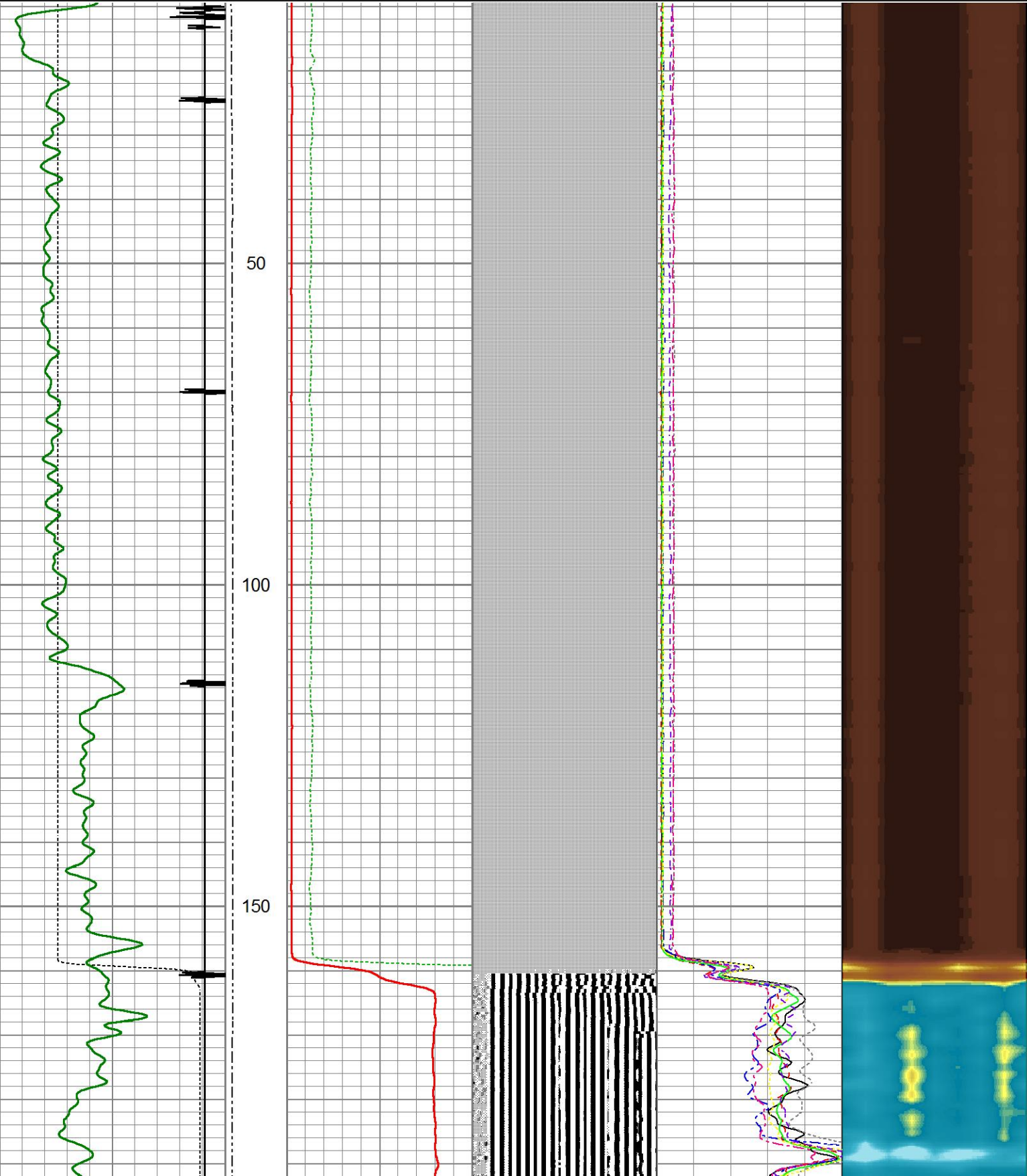
Dataset Pathnamepass1.1

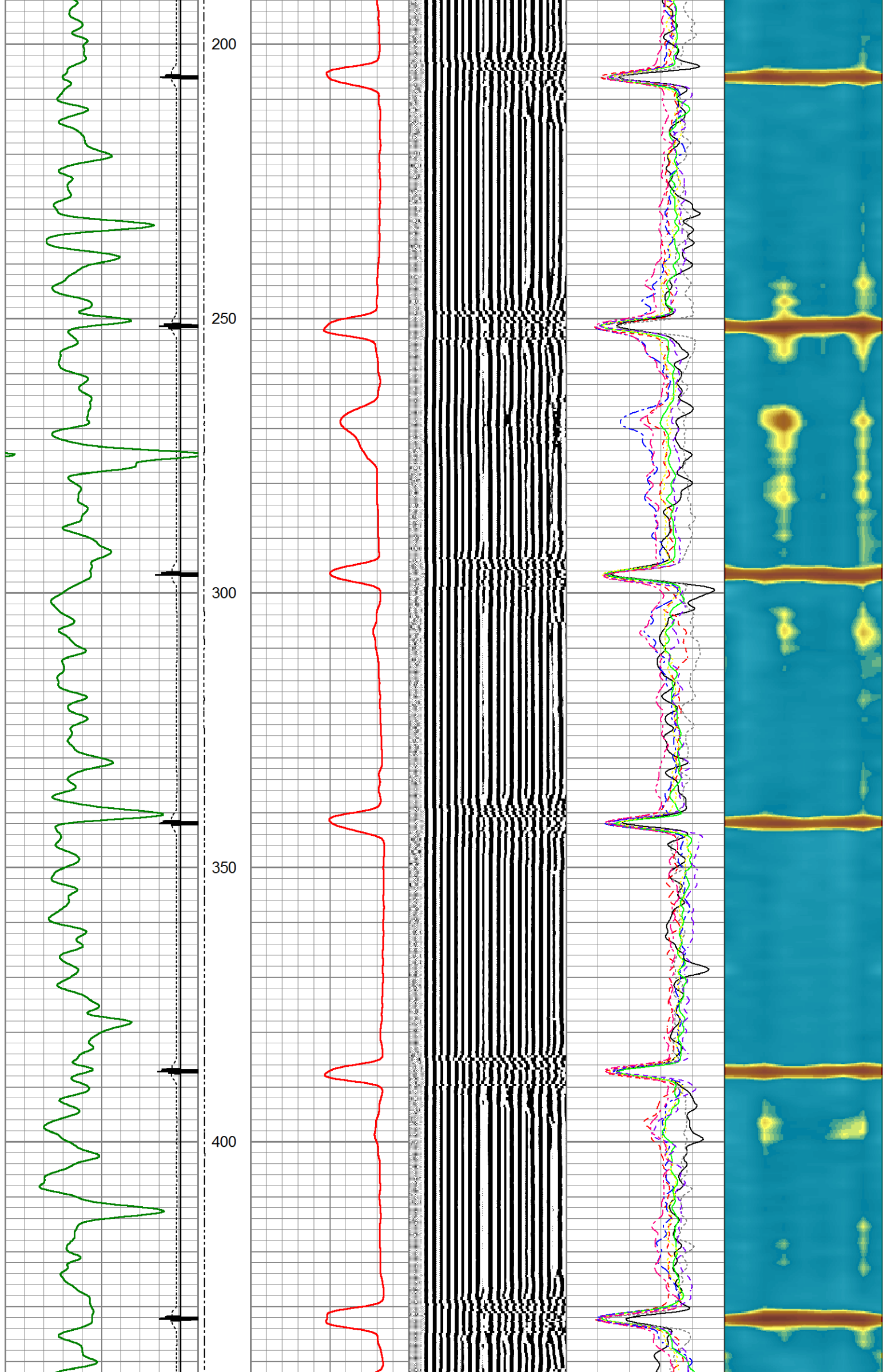
Presentation Formatsectors2

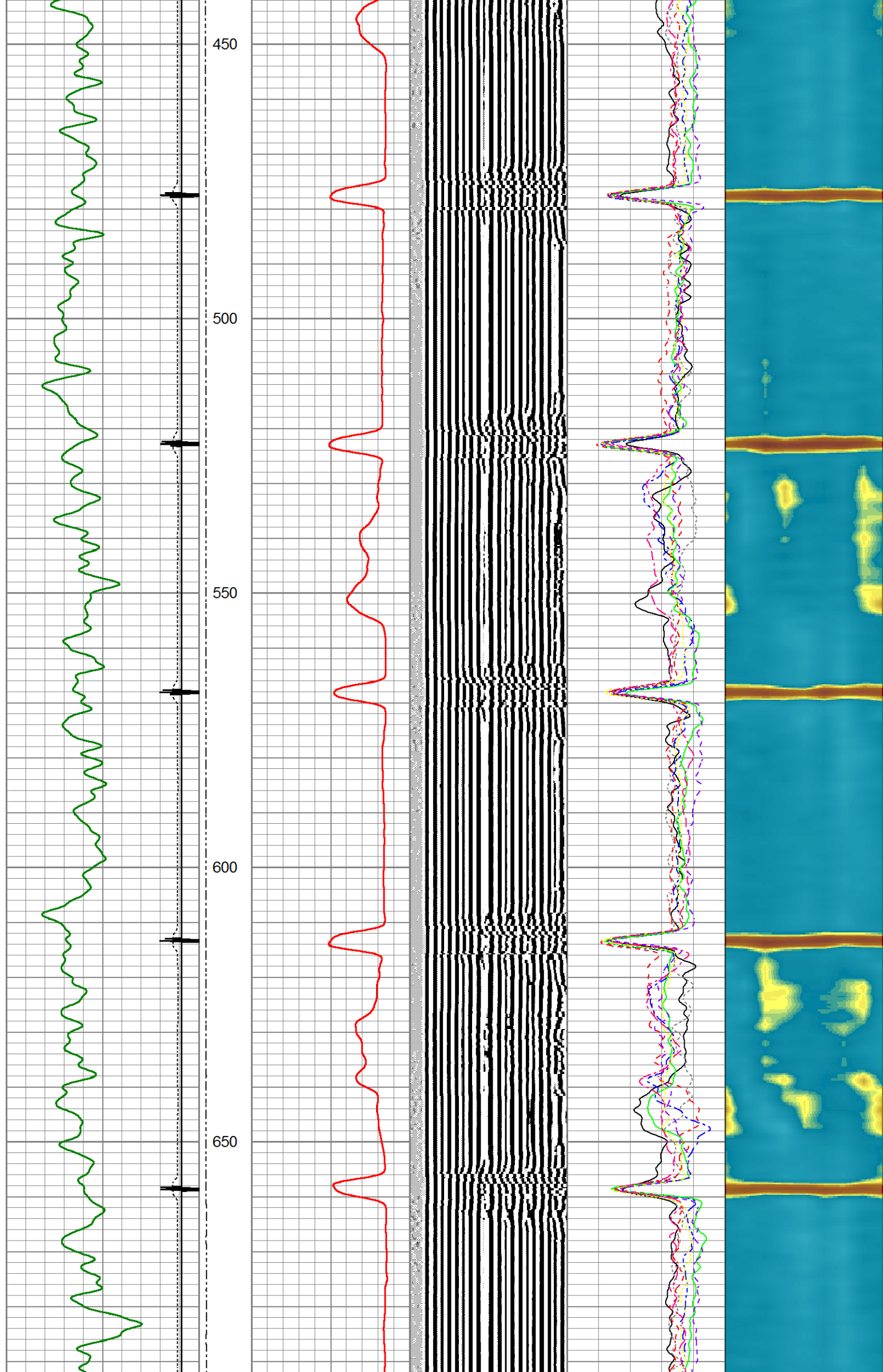
Dataset CreationFri May 12 19:56:50 2017

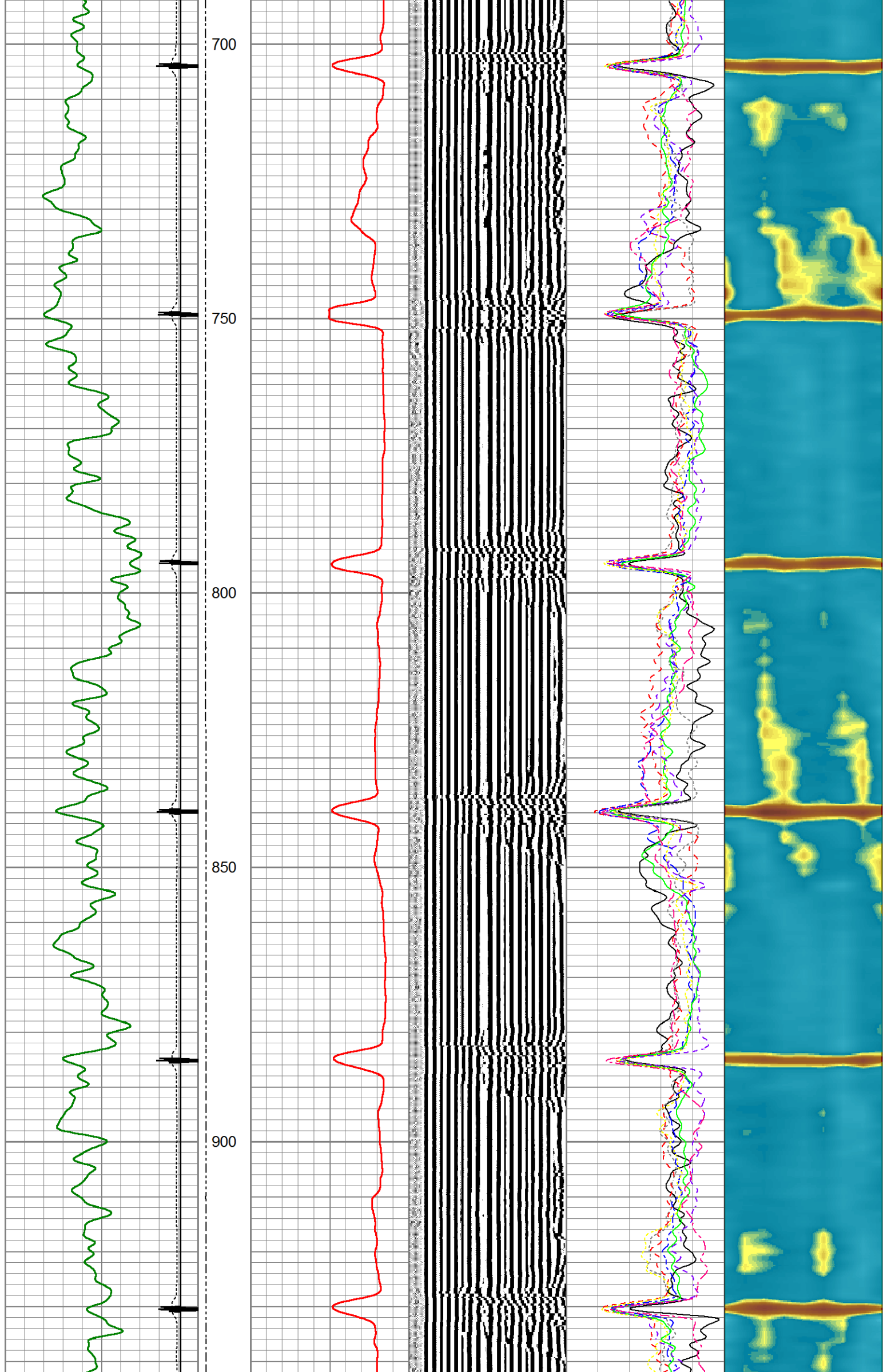
Charted byDepth in Feet scaled 1:240

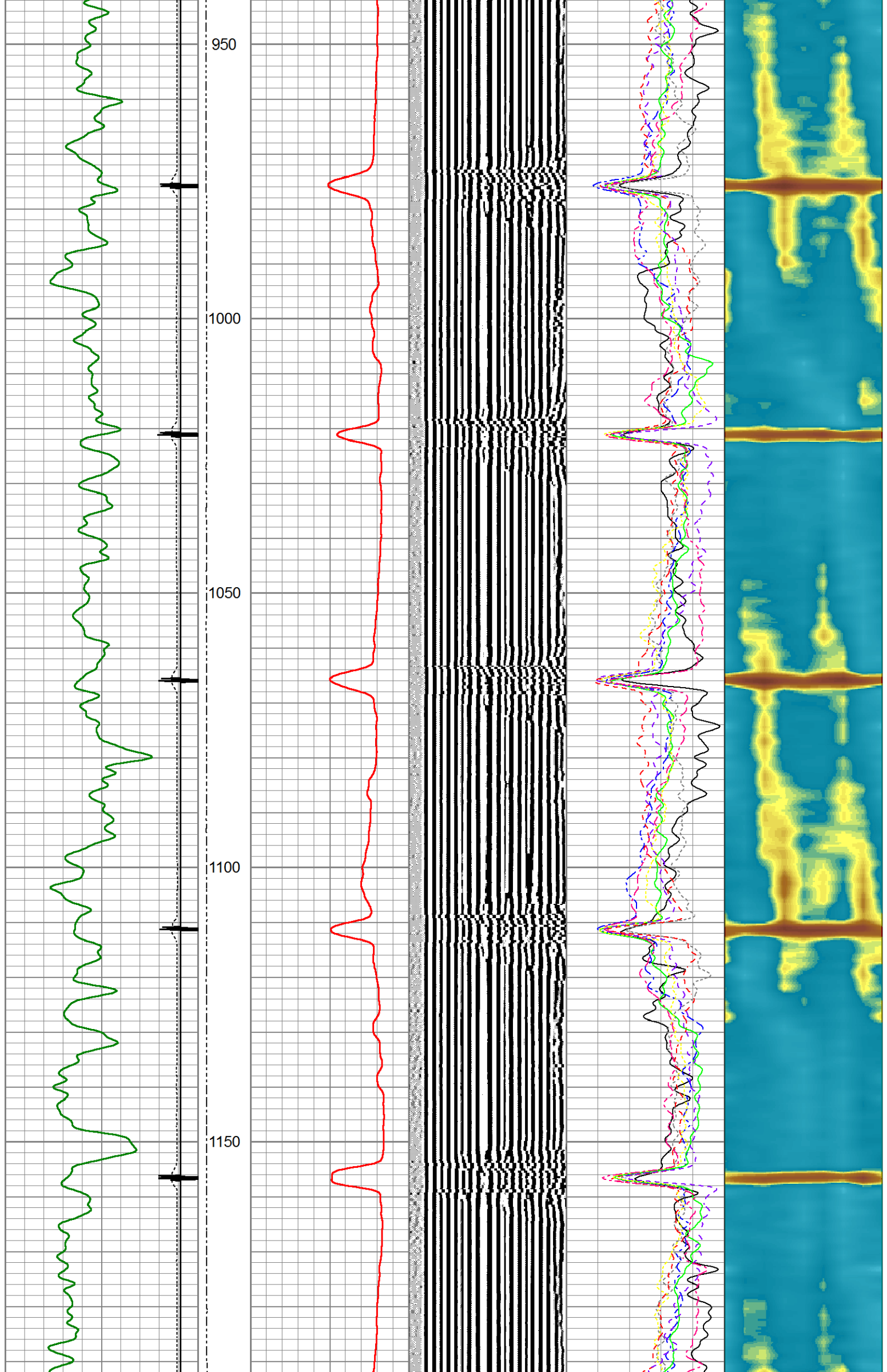
450	TT (usec)	150	LTEN	Amplified Amplitude	200	VDL (V)	1200	0	AMPS1	100	1	Sector Map	8
20	Collars	-2	(lb)	0	(mV)	20	200	PPT (usec)	1200	0	AMPS2	100	0
0	Gamma Ray	200	0 3000	0	Amplitude (mV)100					0	AMPS3	100	
										0	AMPS4	100	
										0	AMPS5	100	
										0	AMPS6	100	
										0	AMPS7	100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

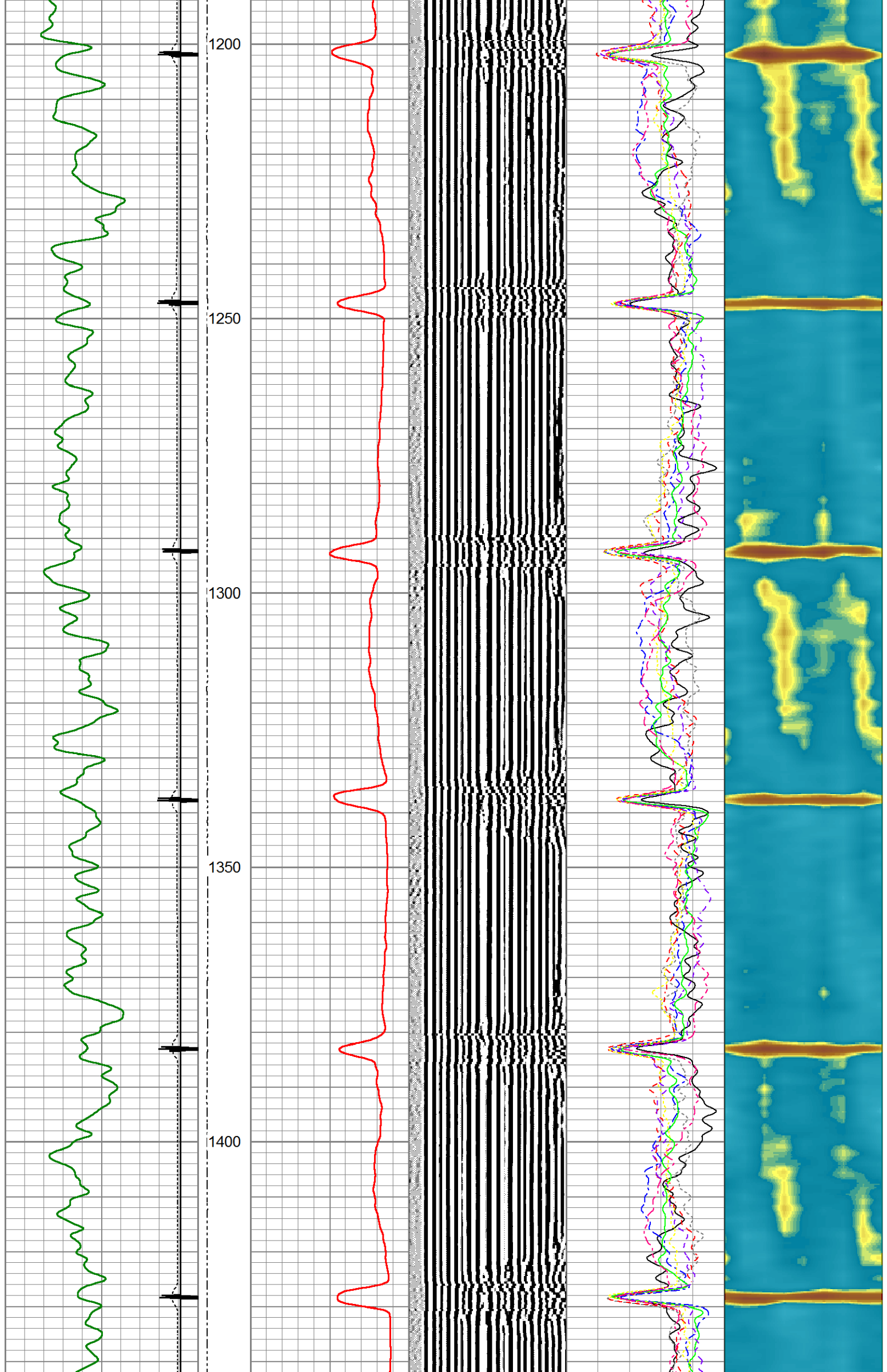


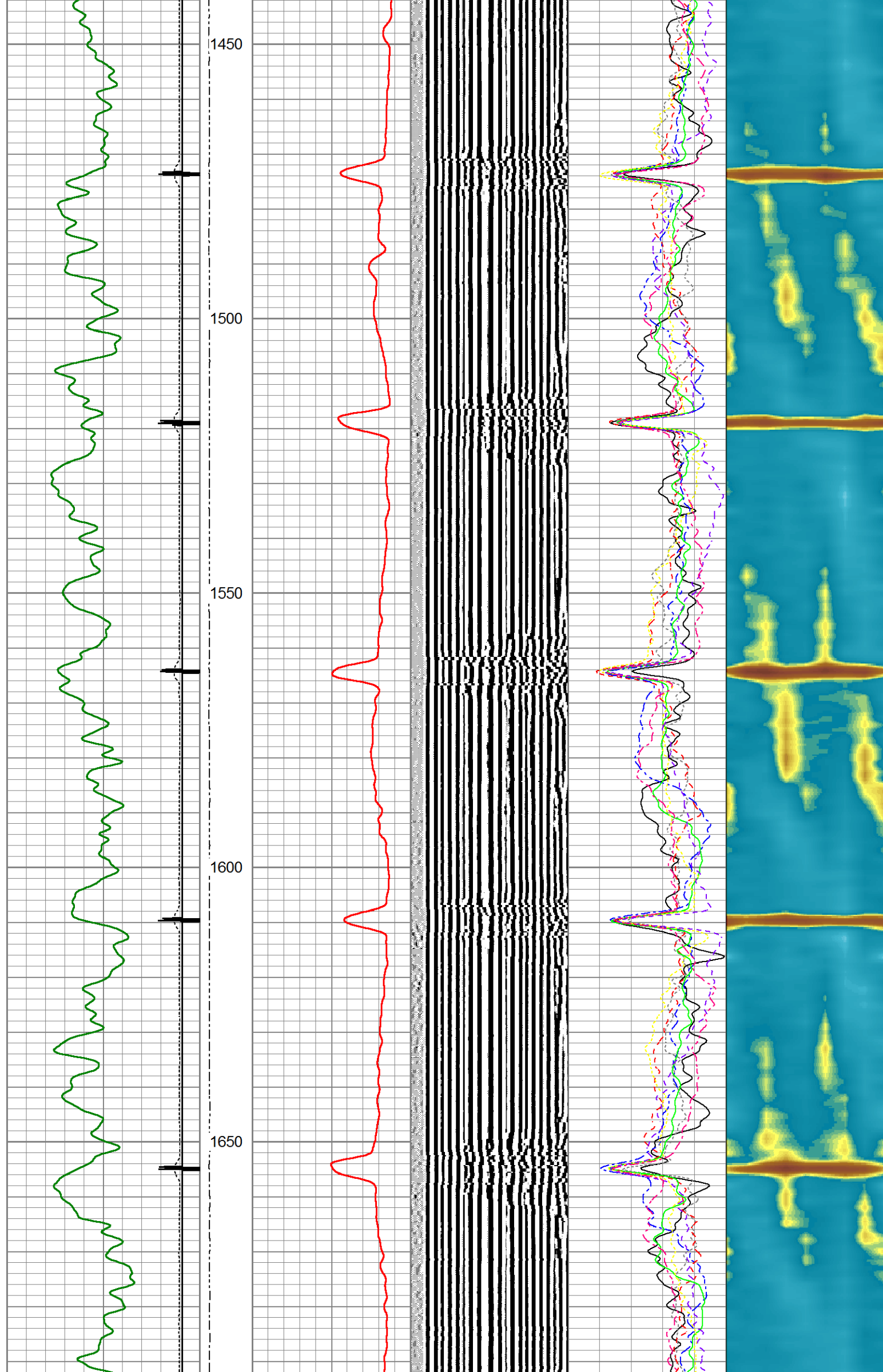


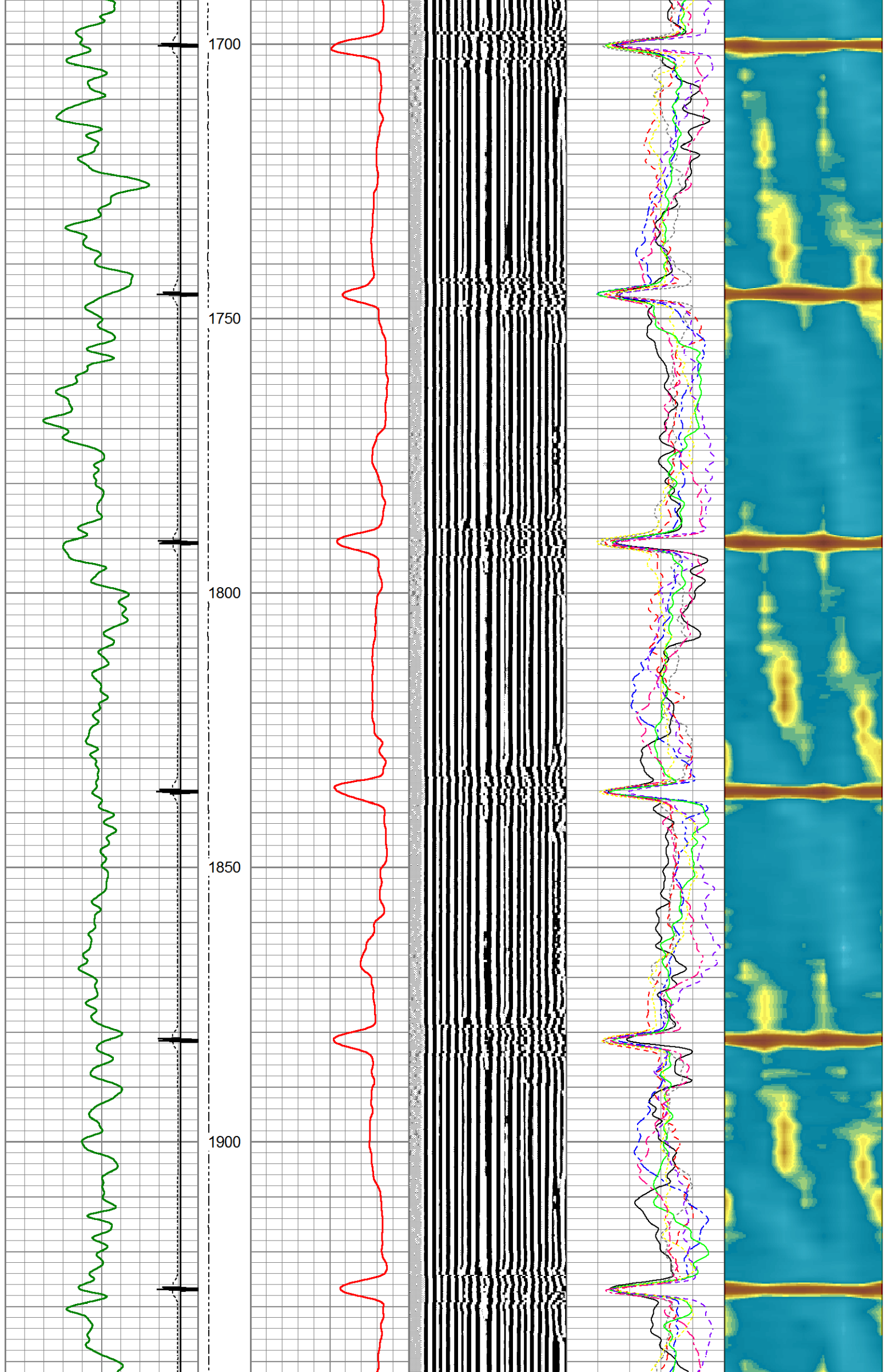


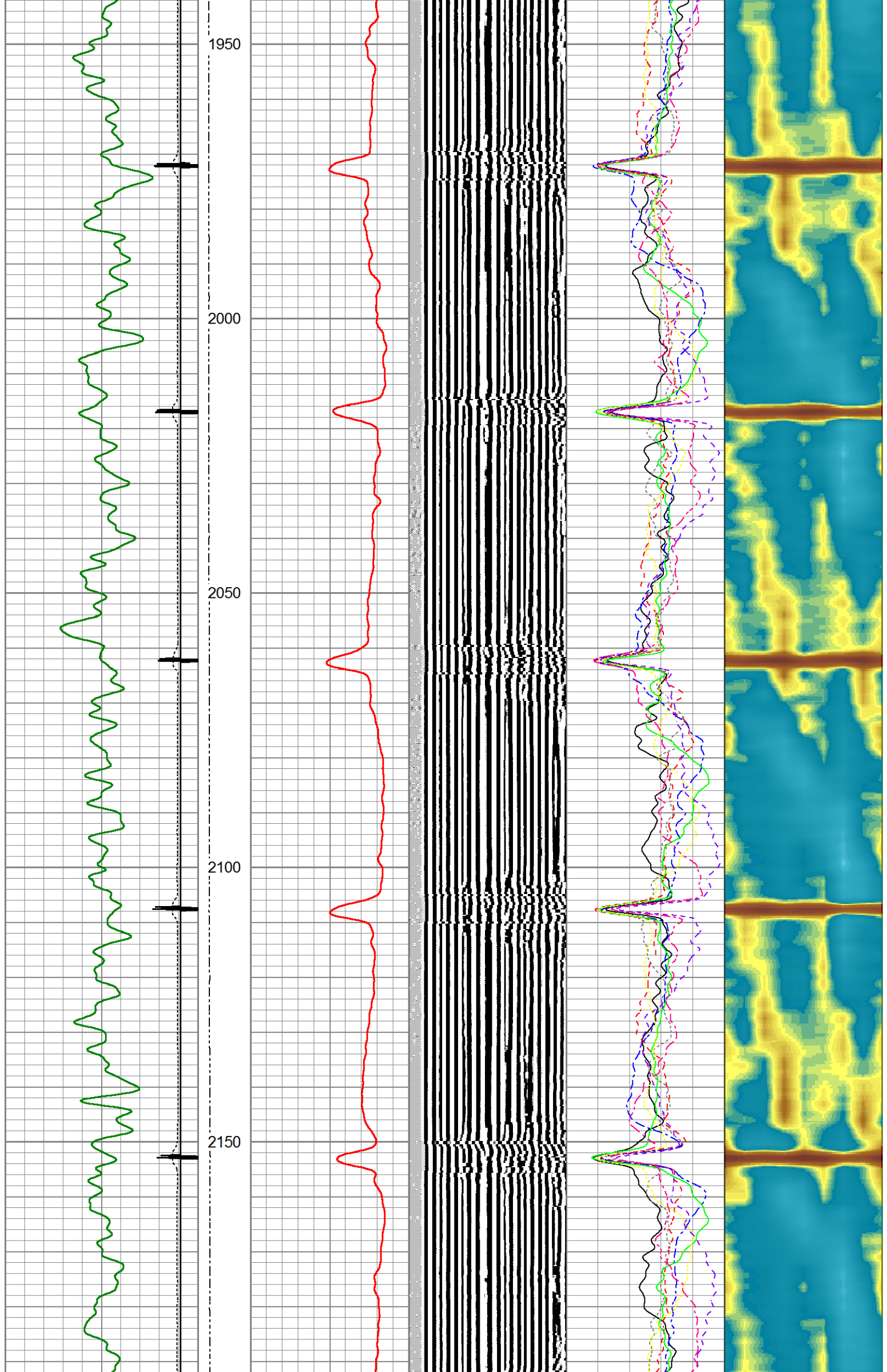


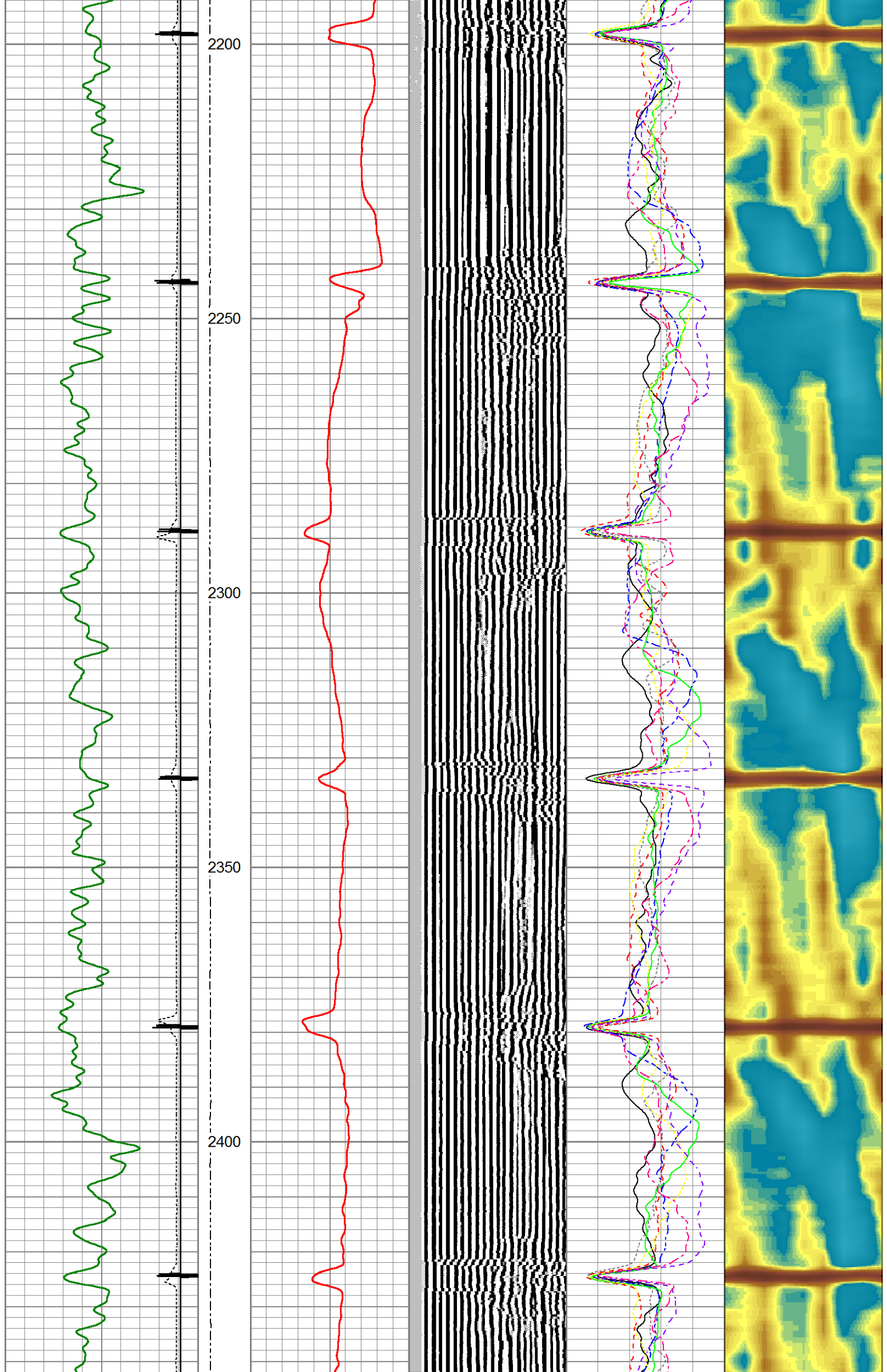


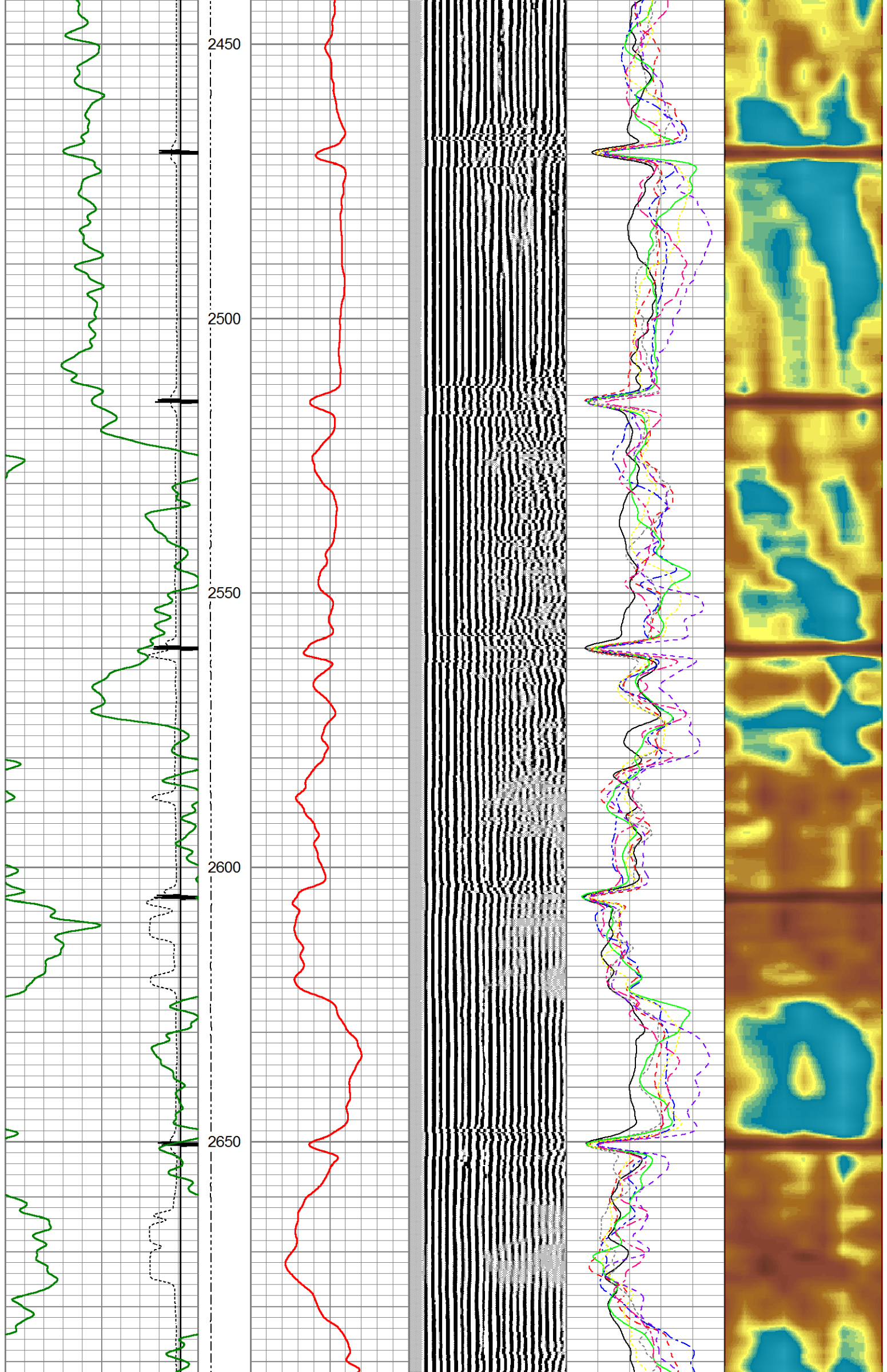


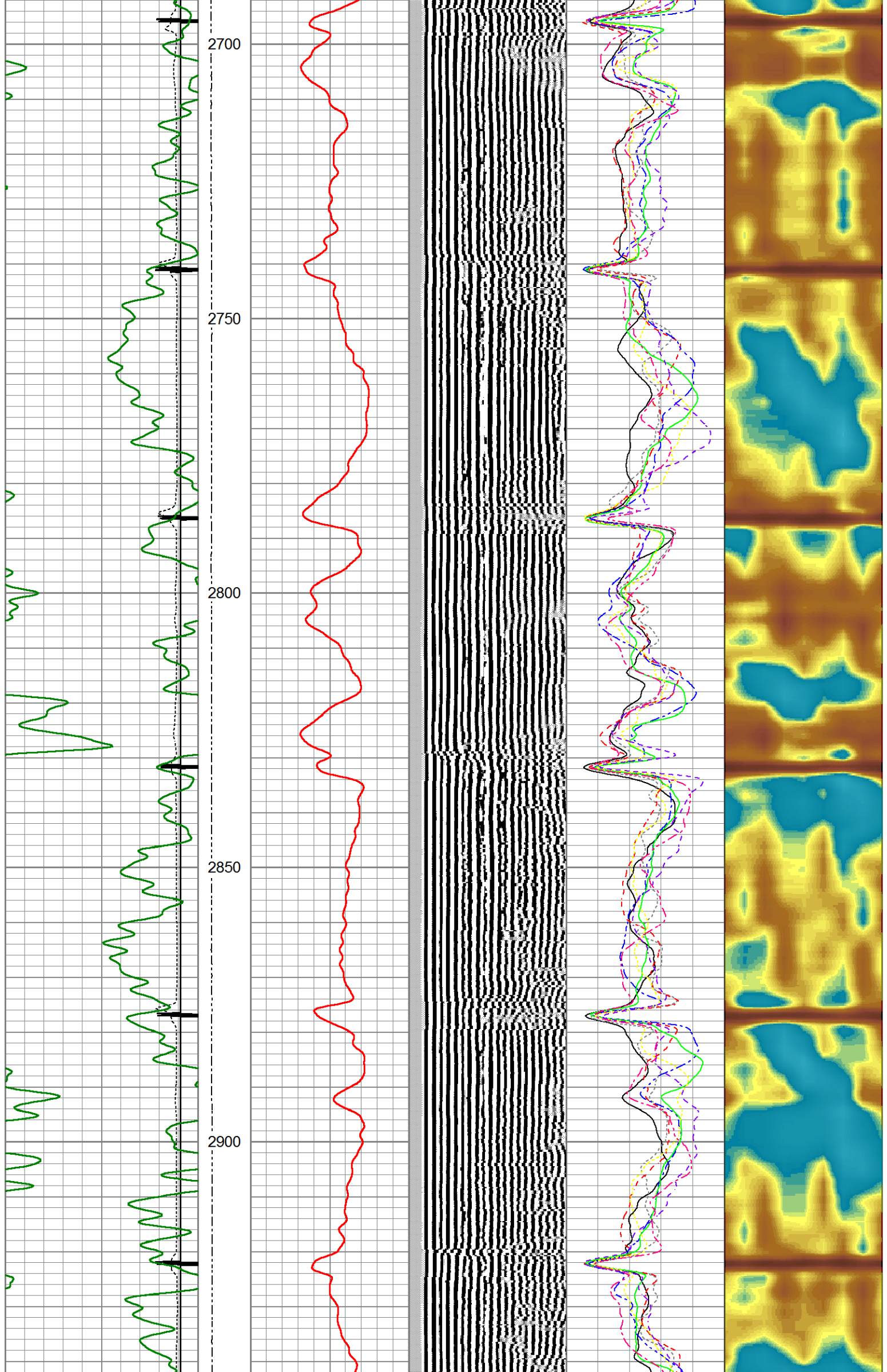


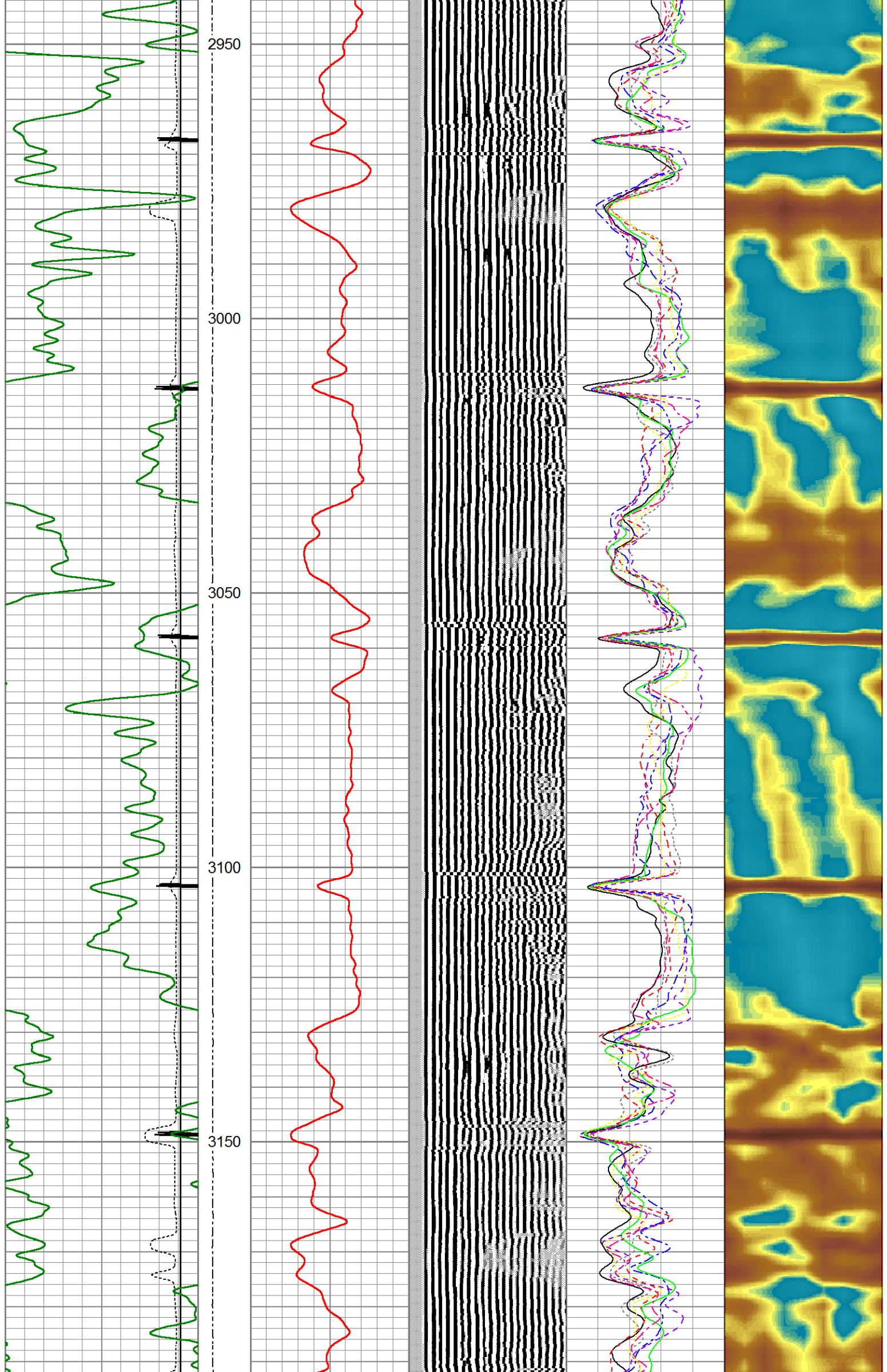


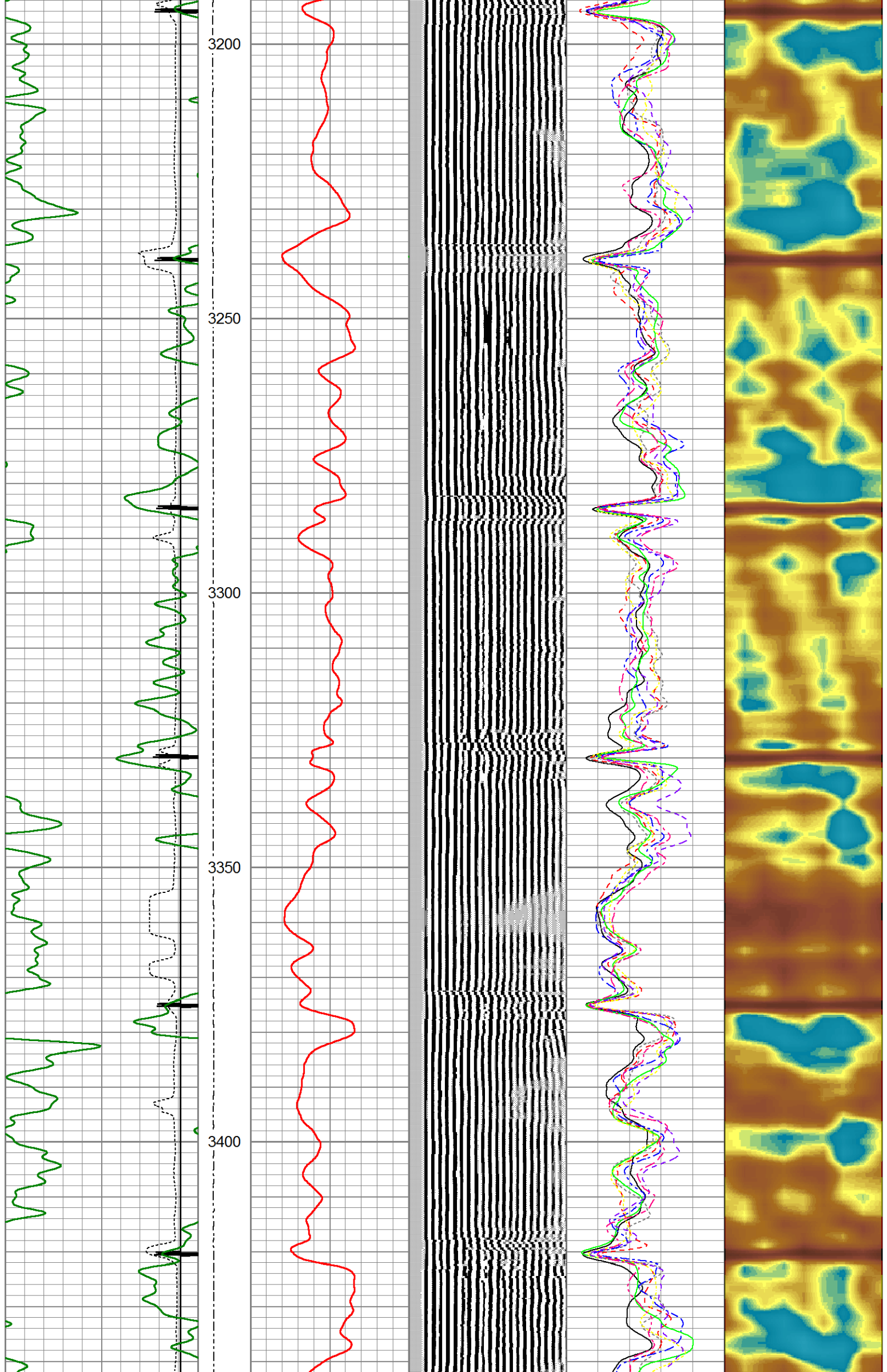


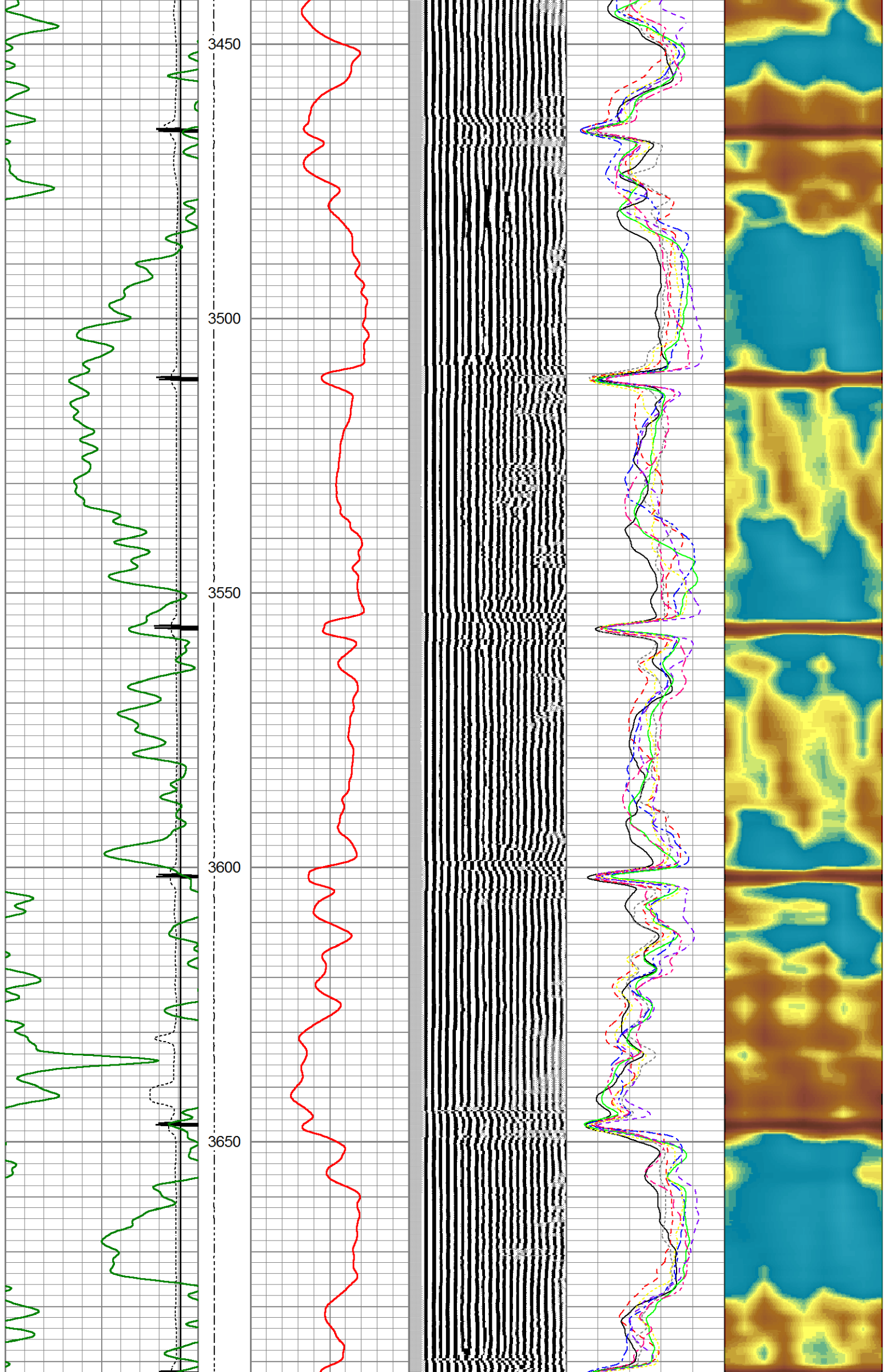


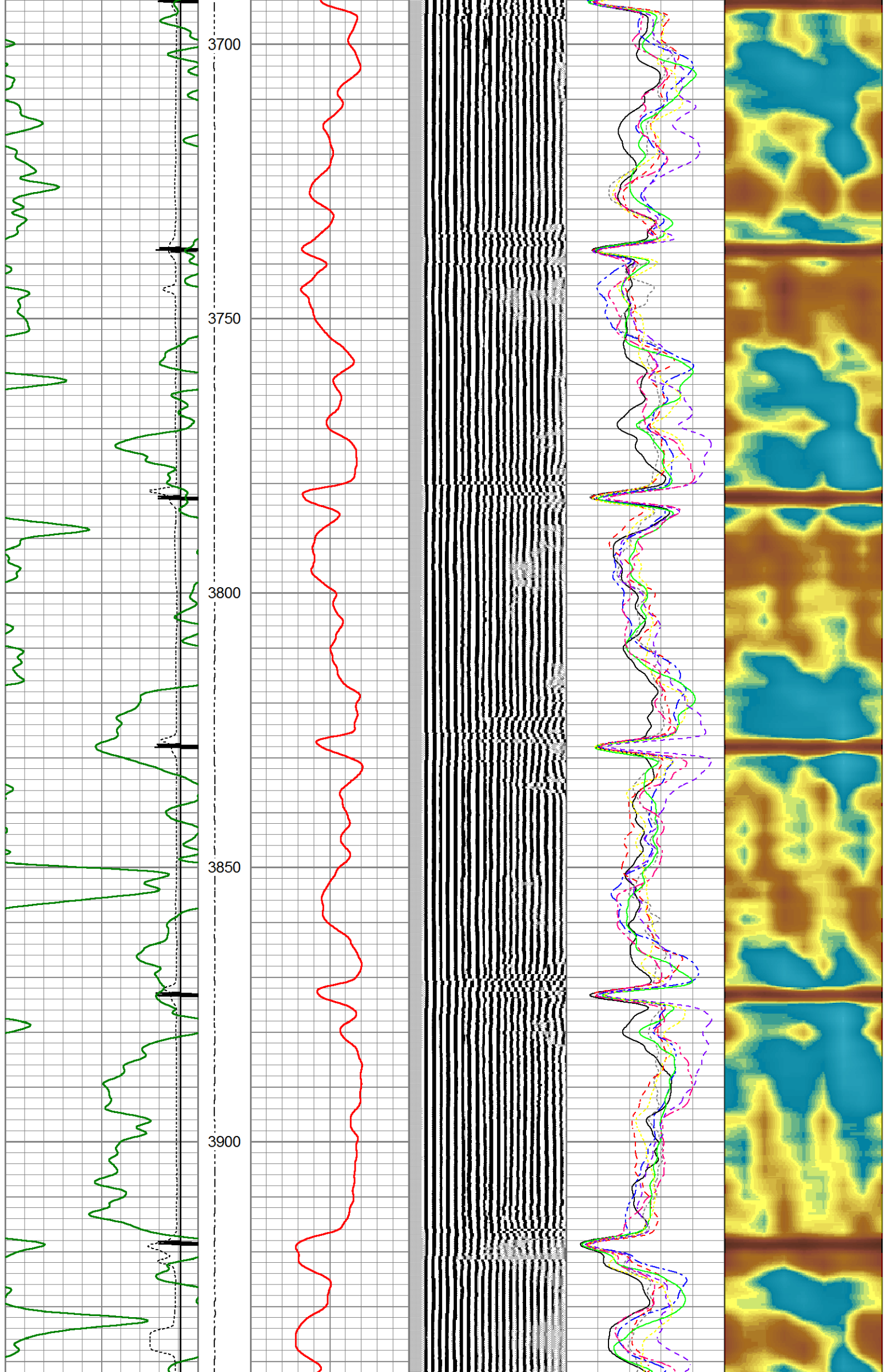


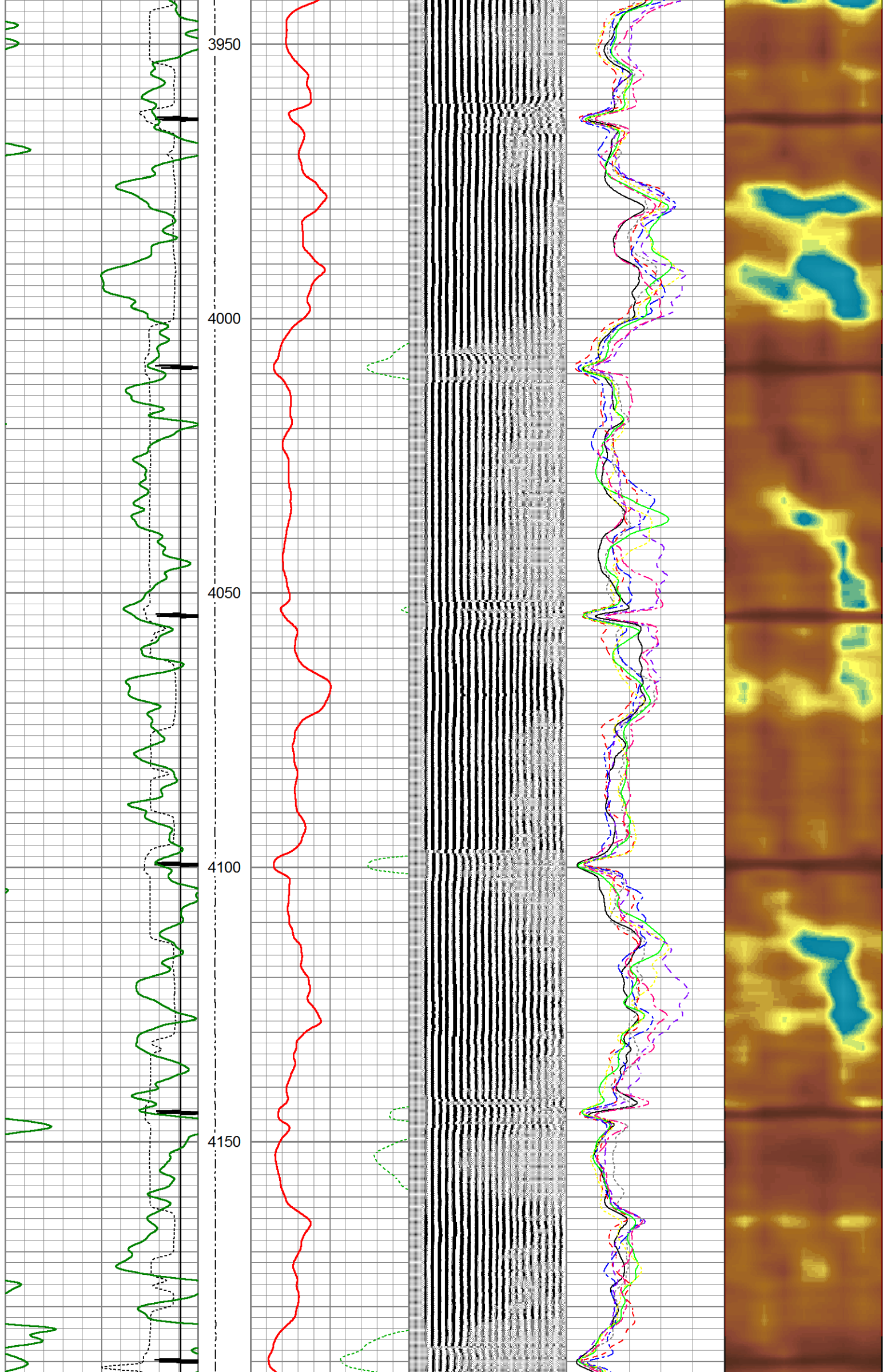


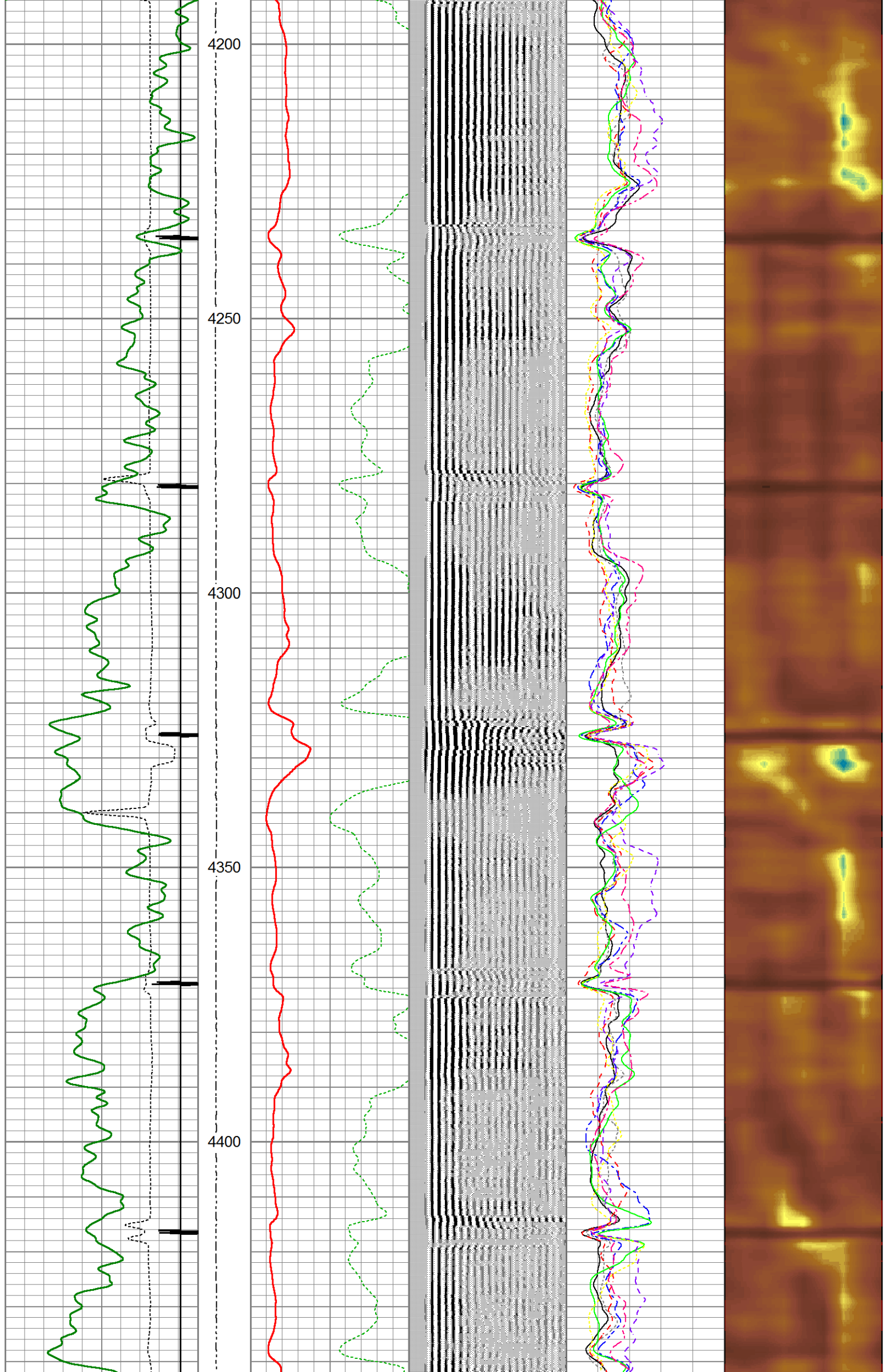


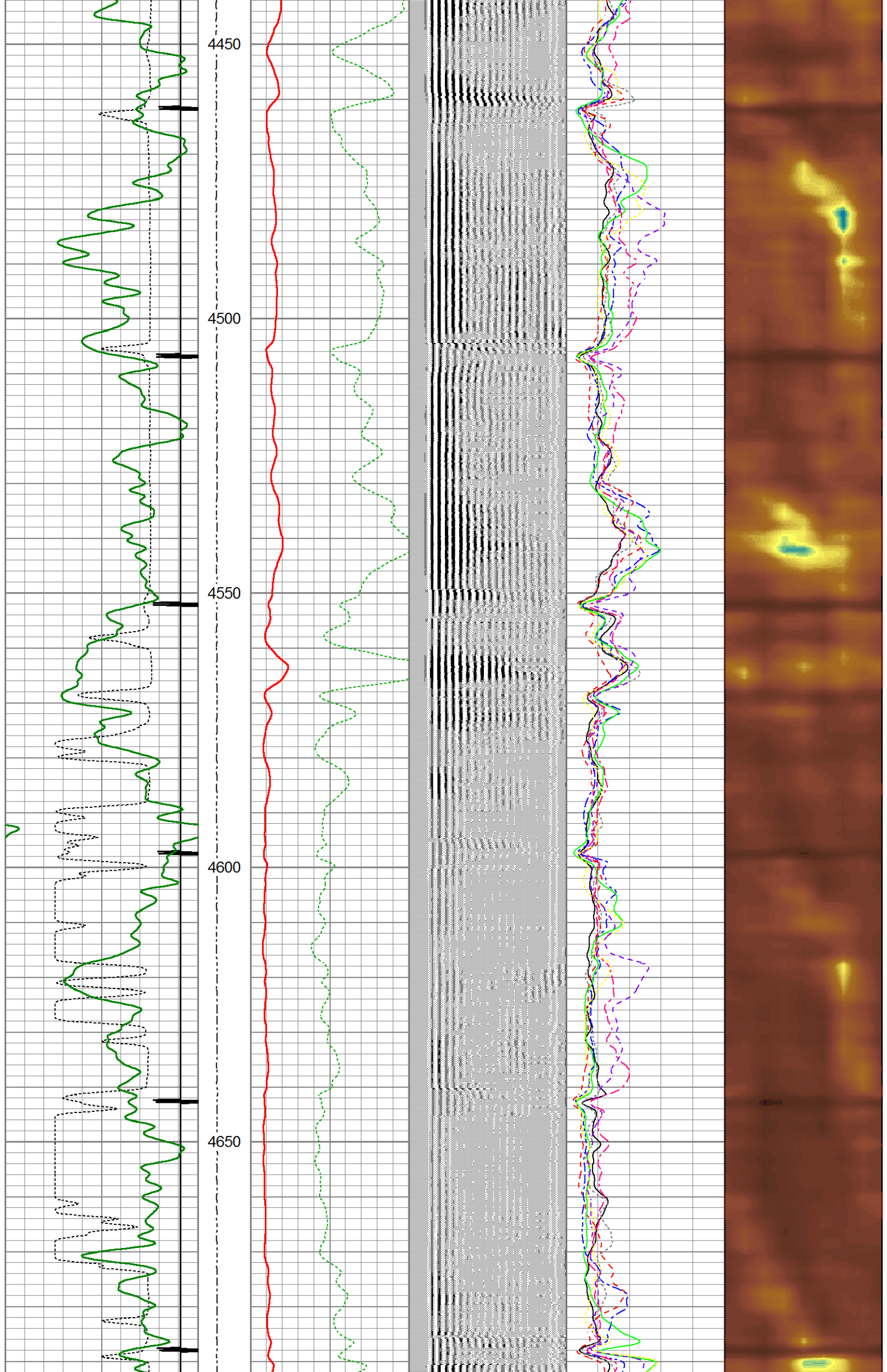


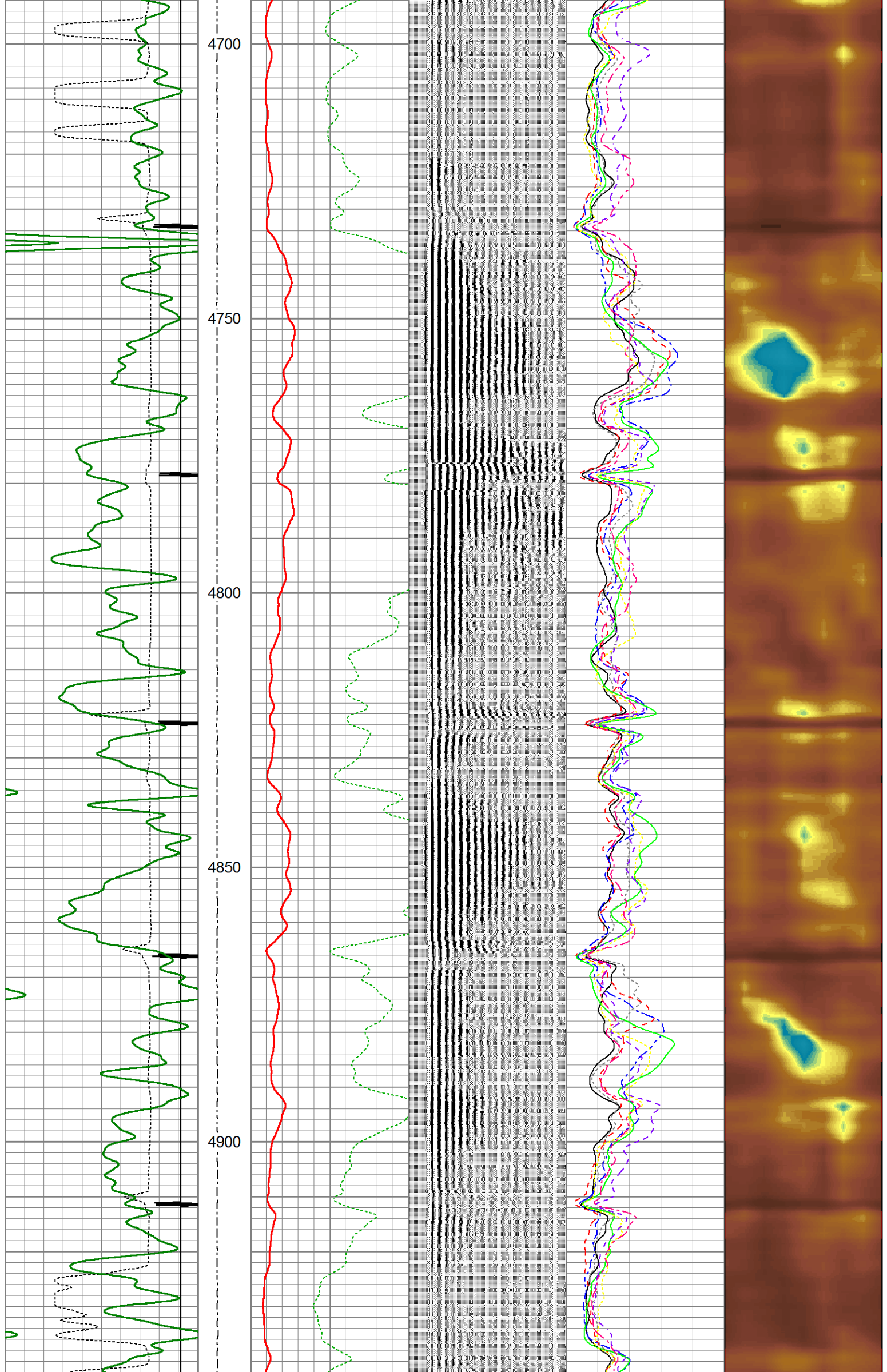


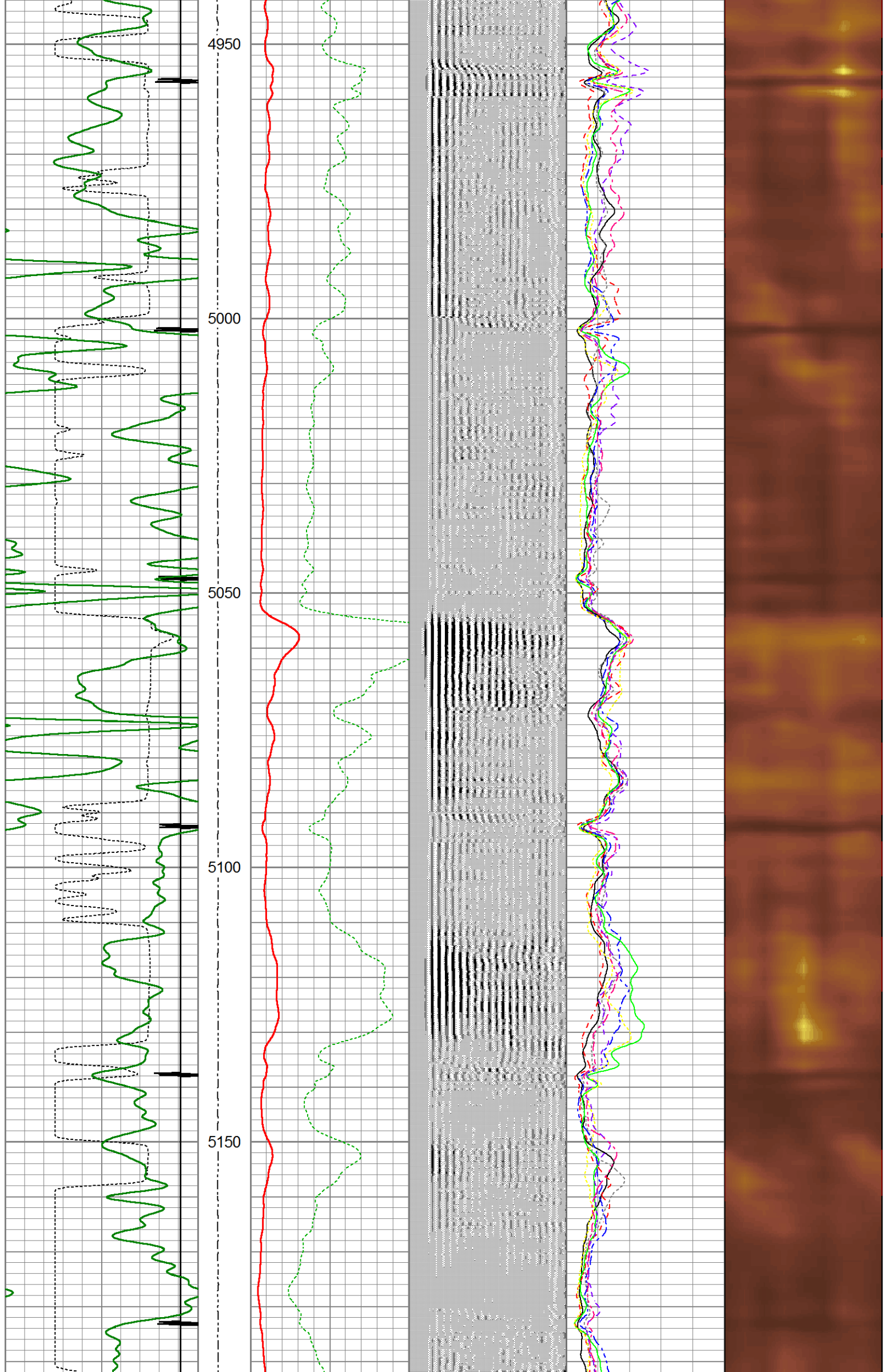


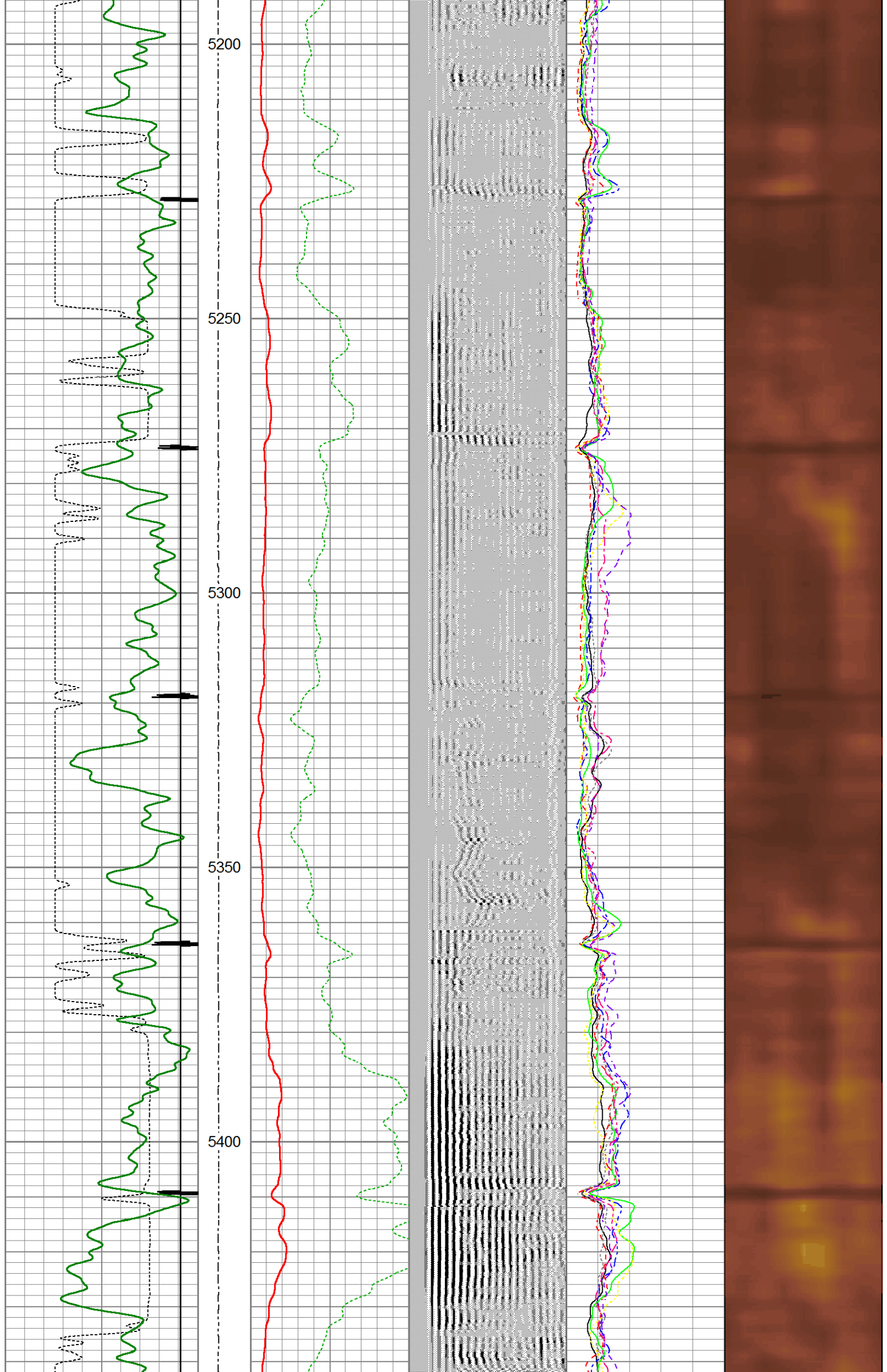


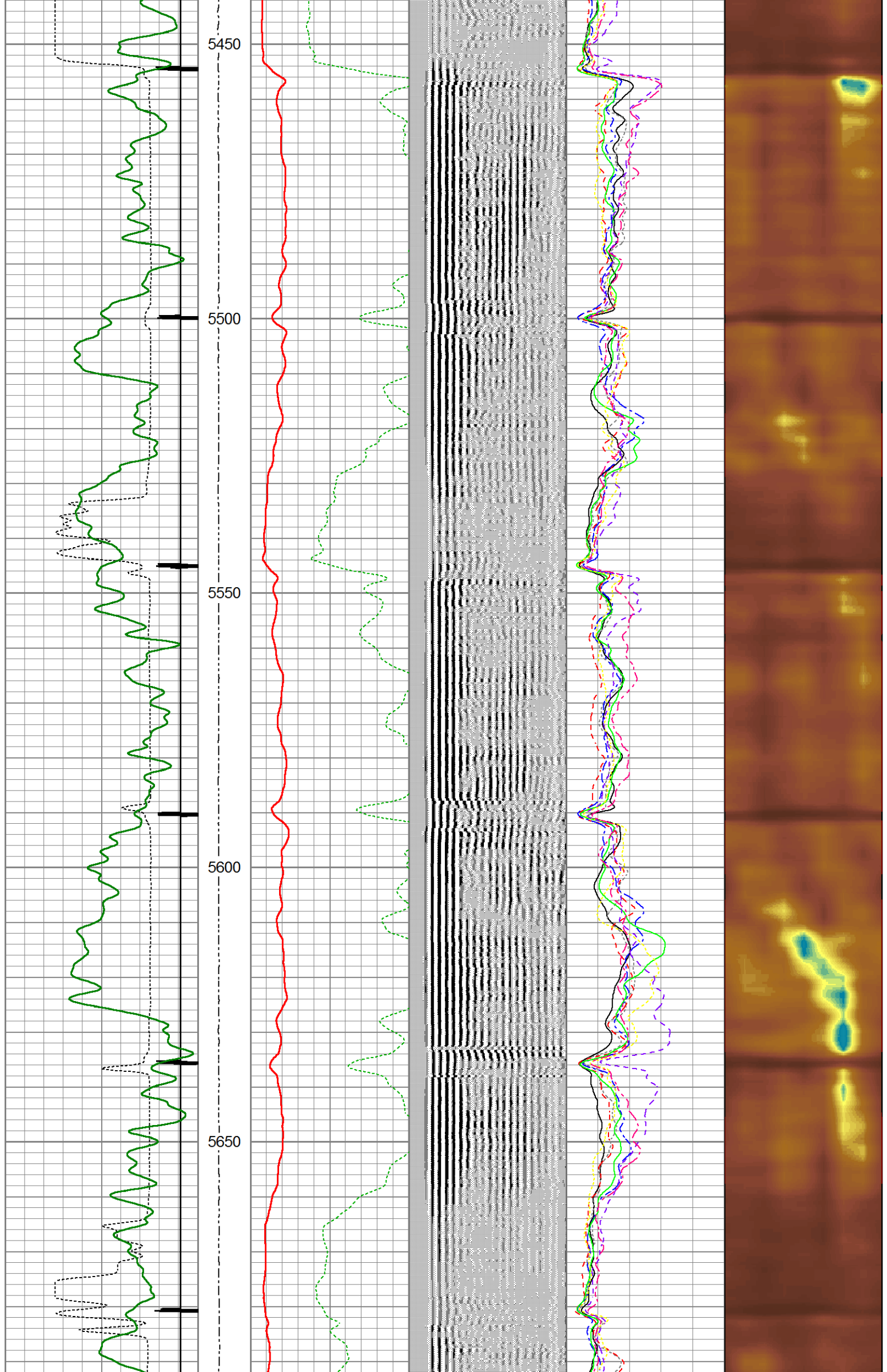


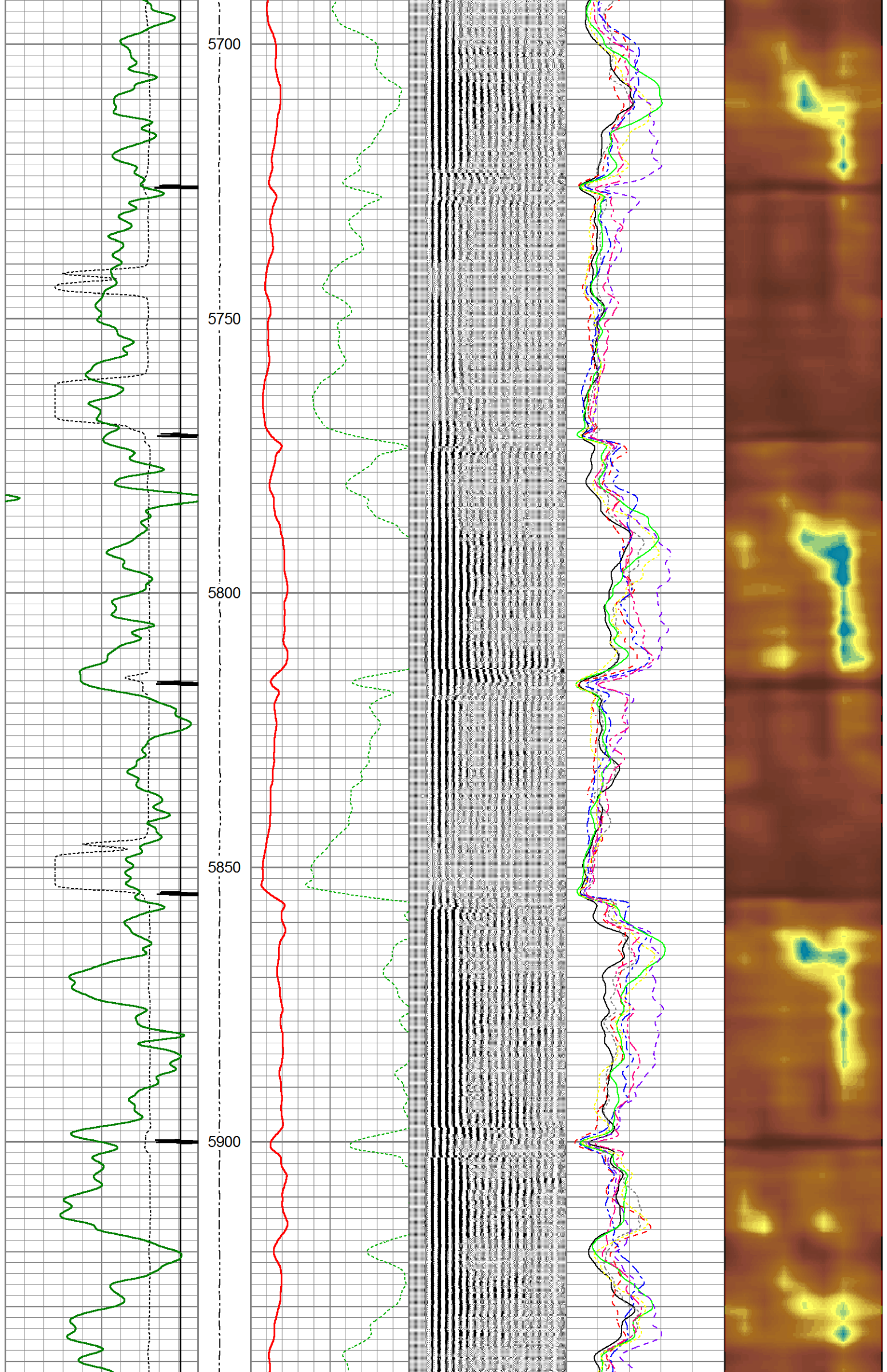


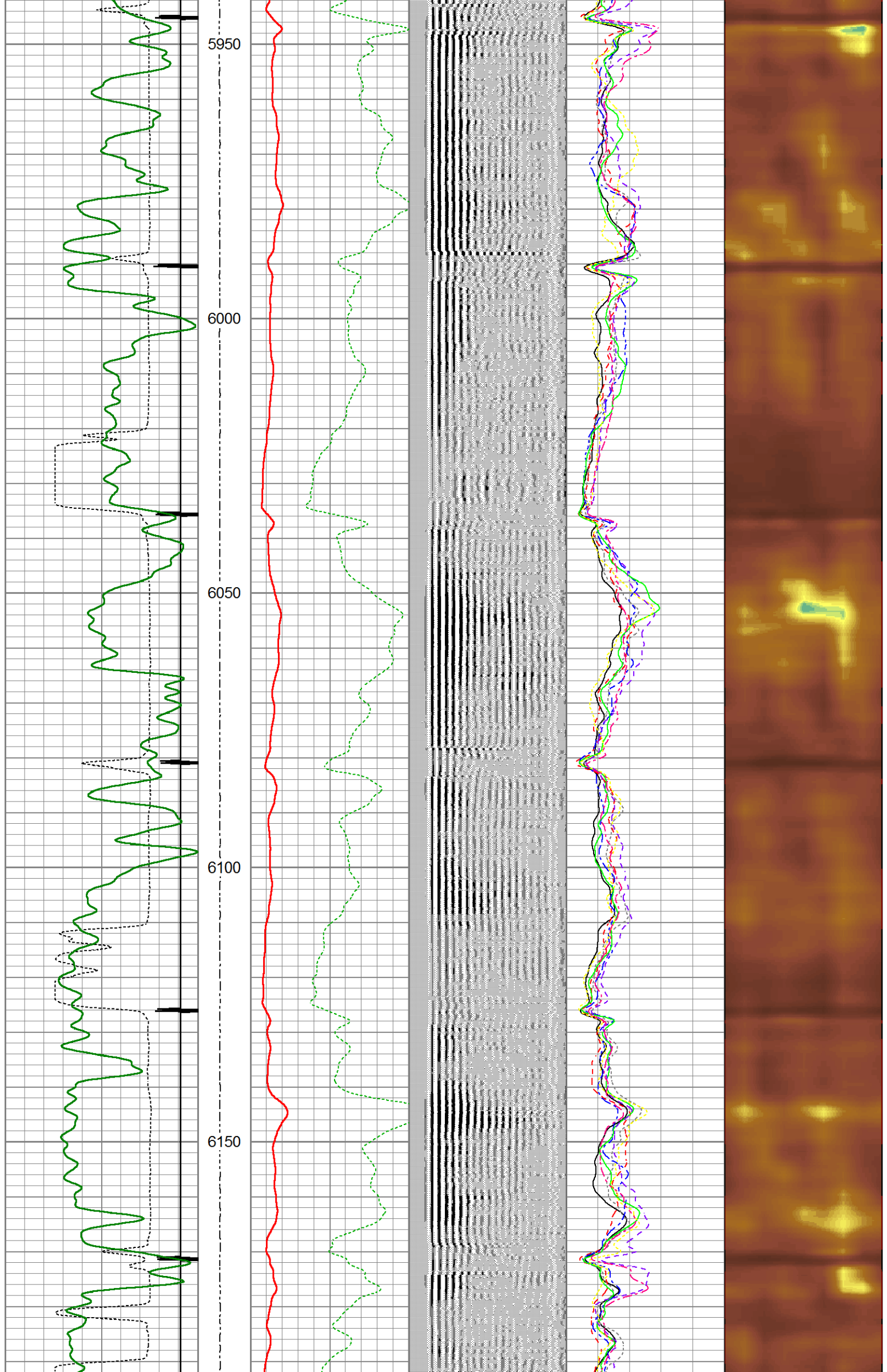


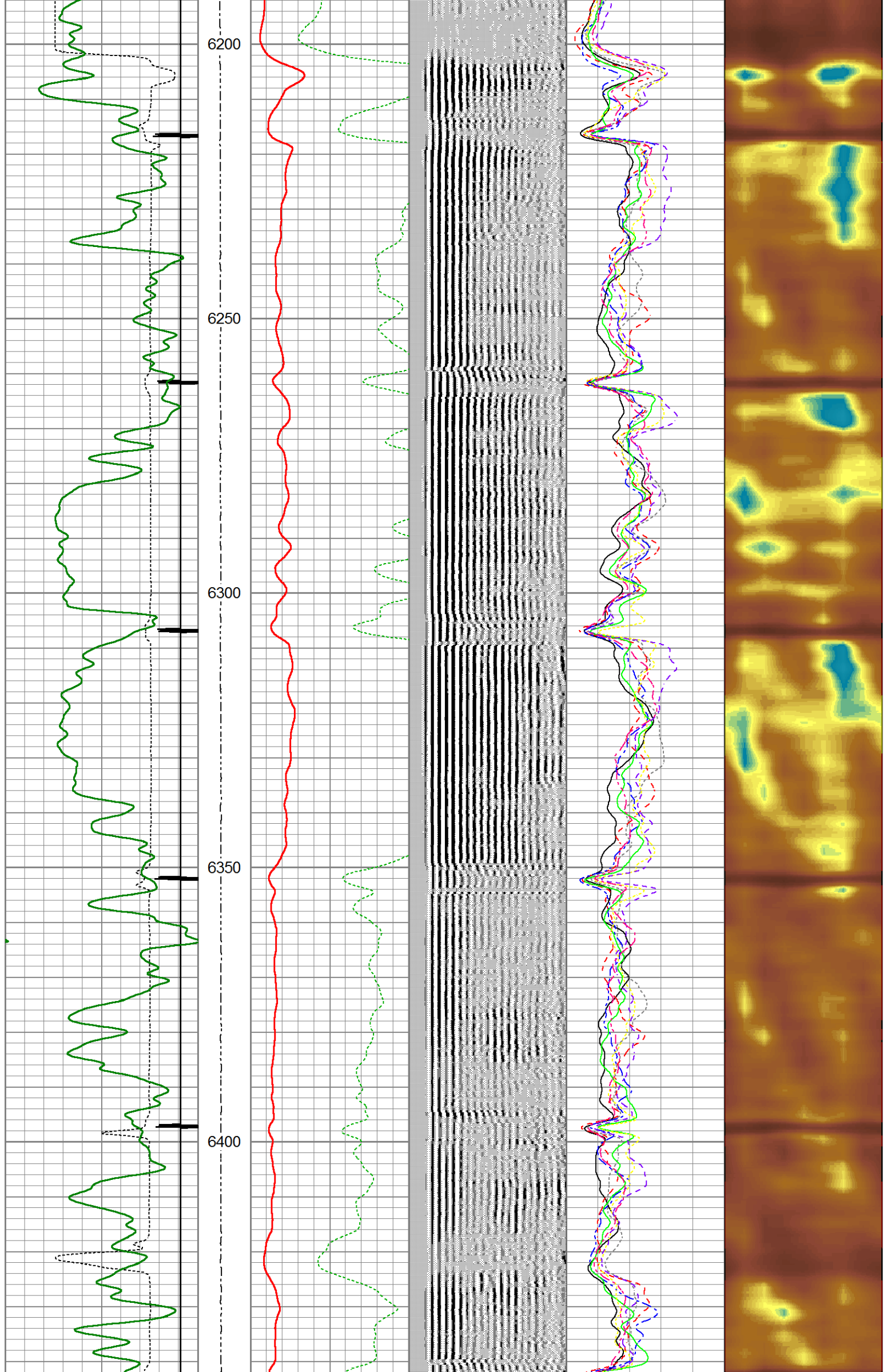


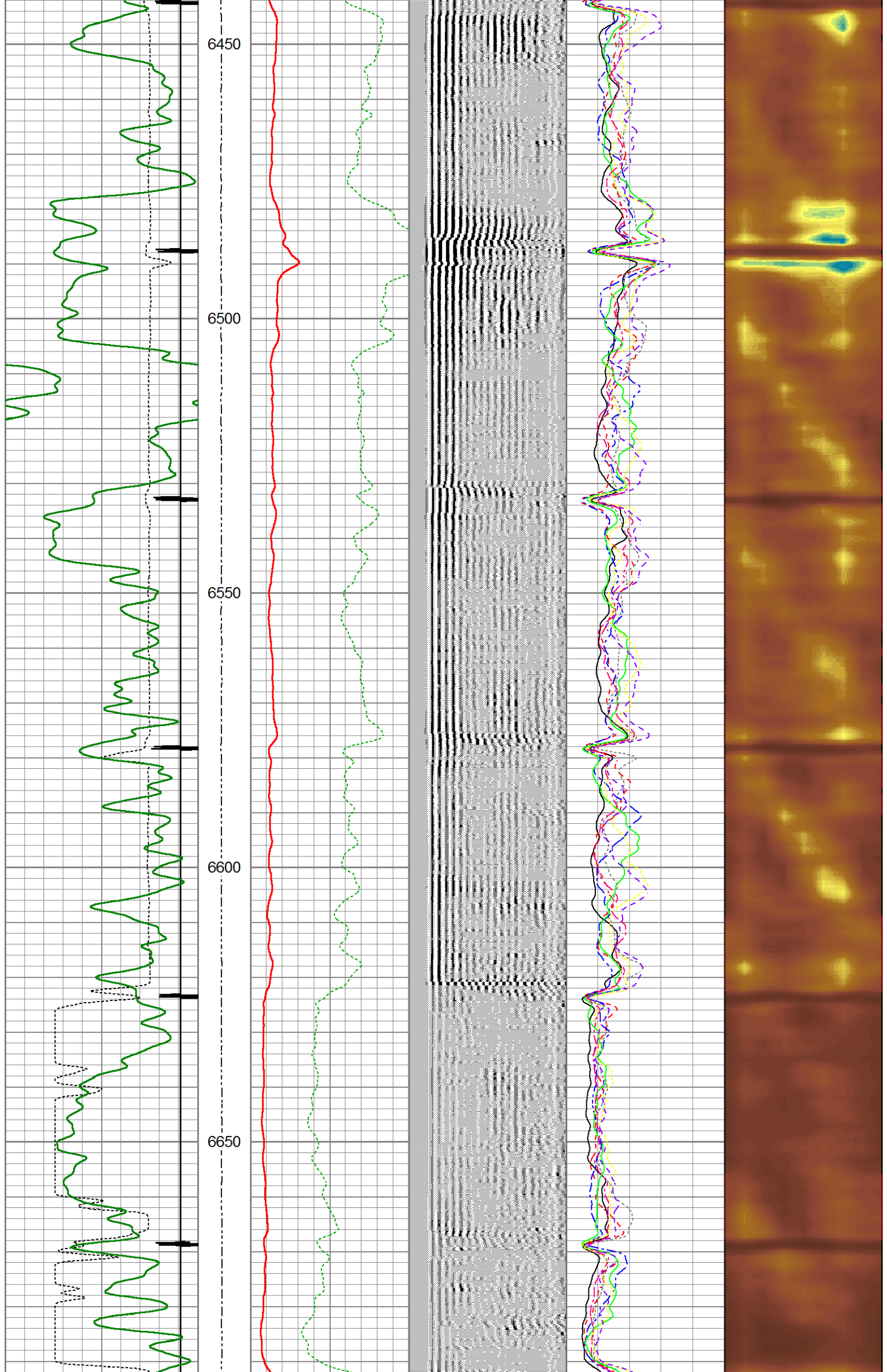


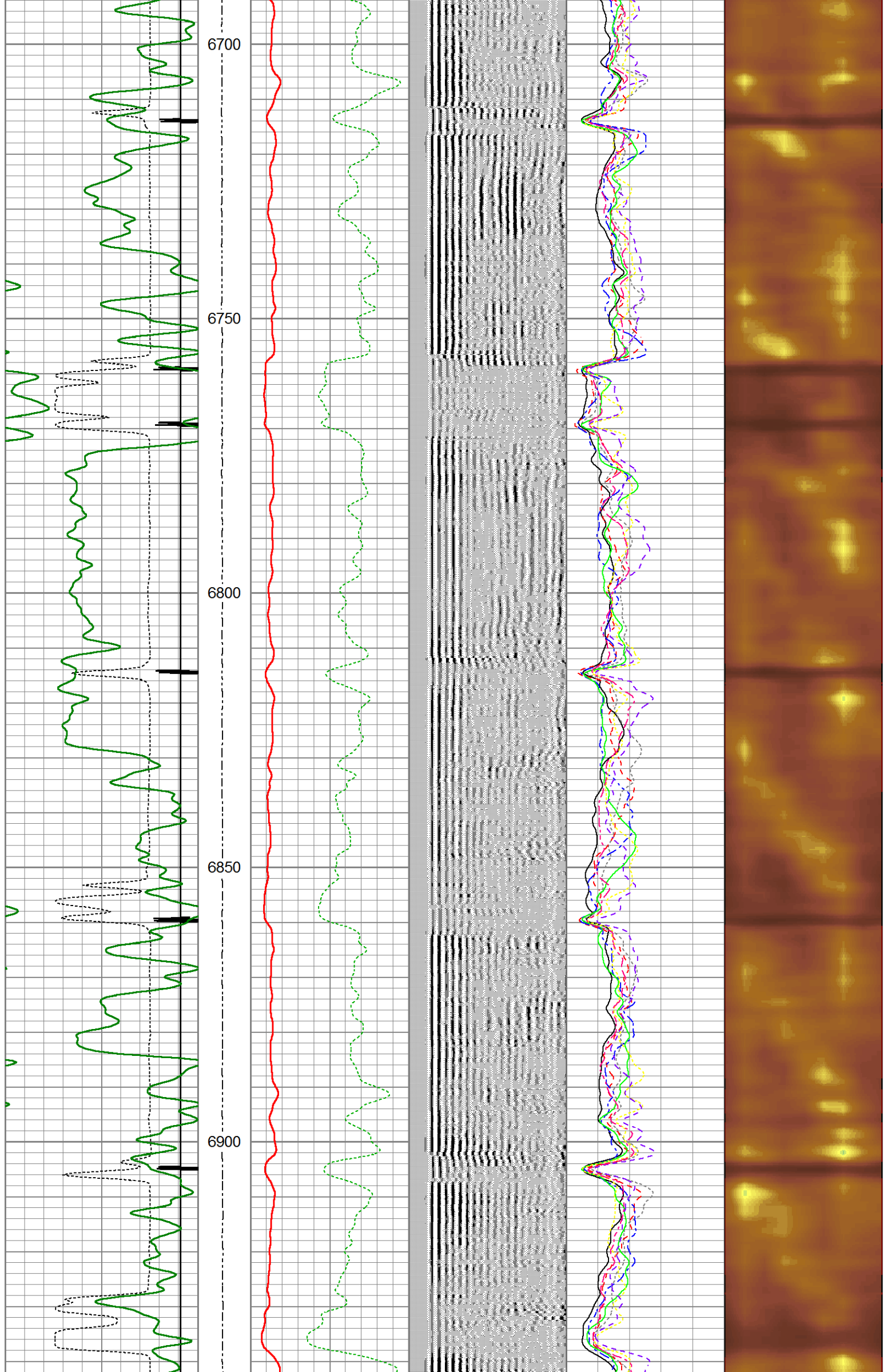


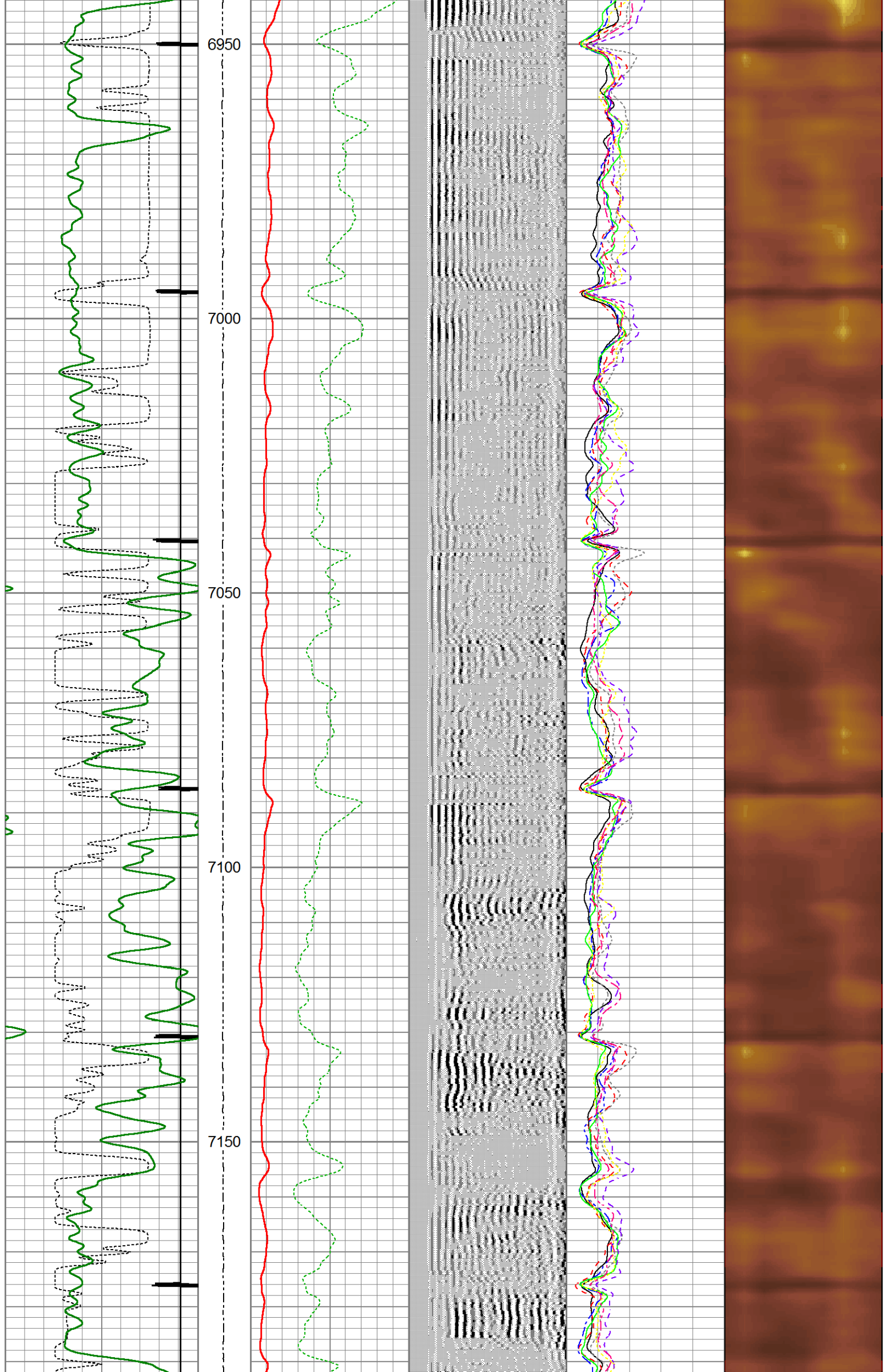


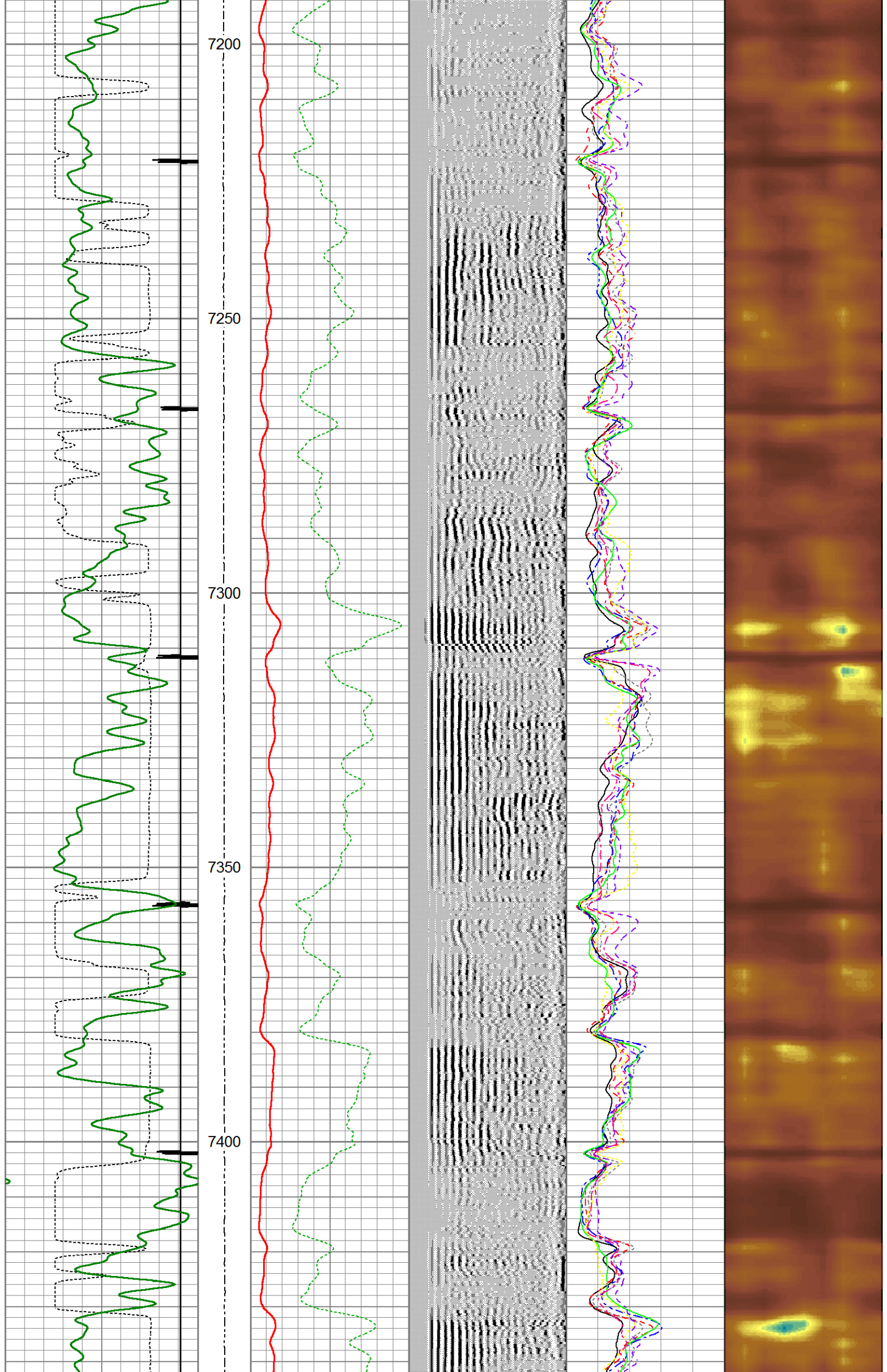


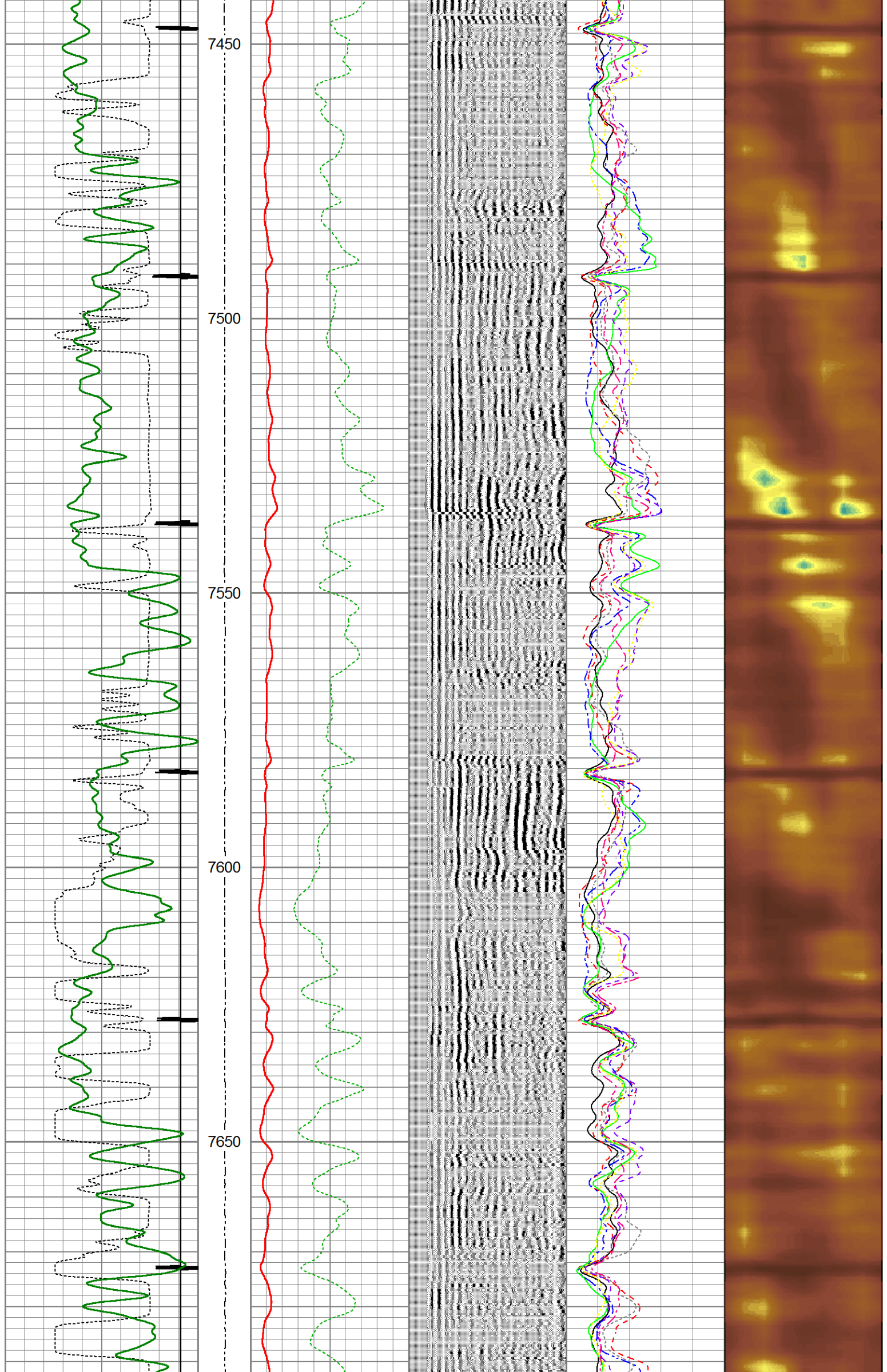


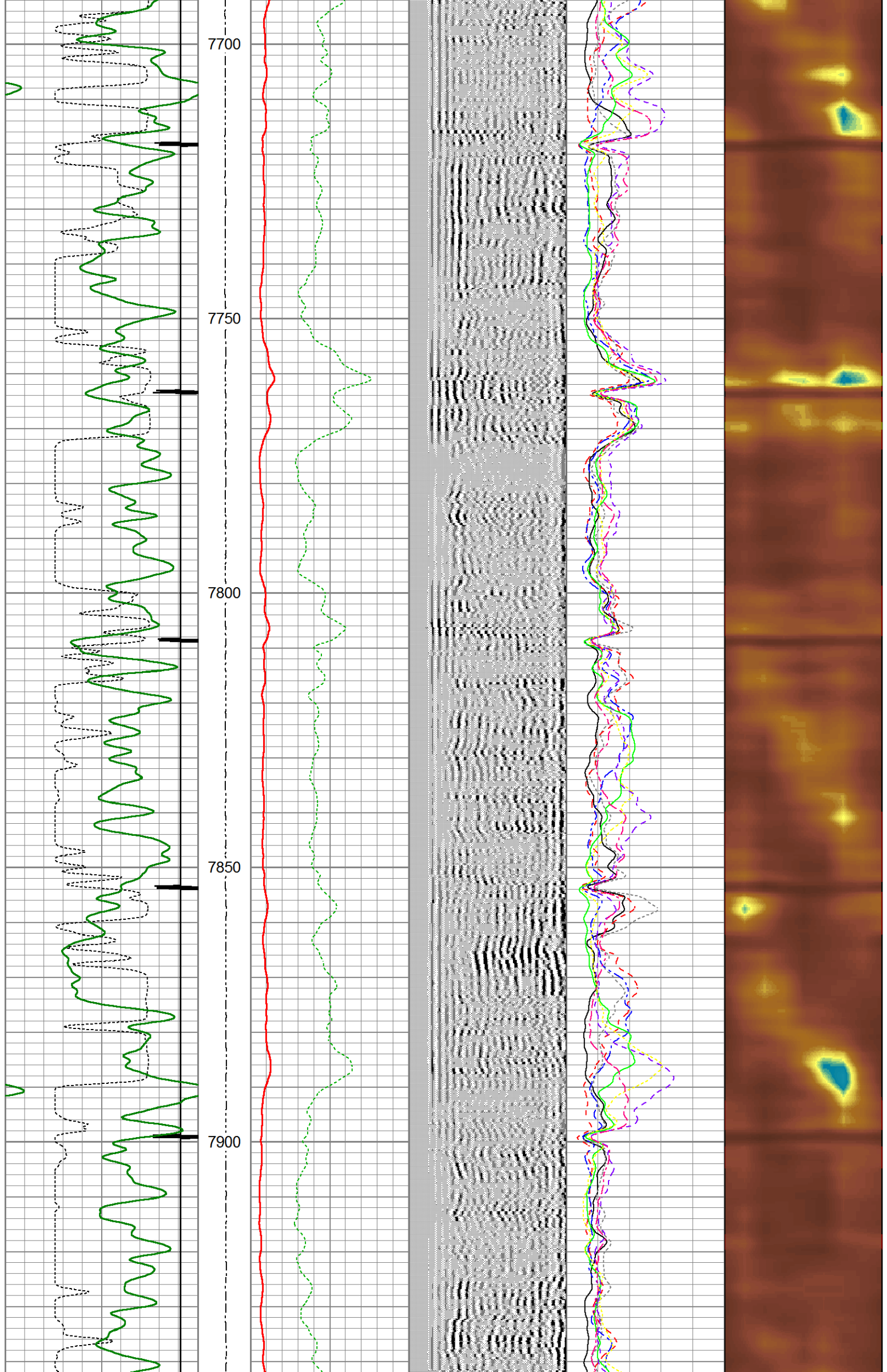


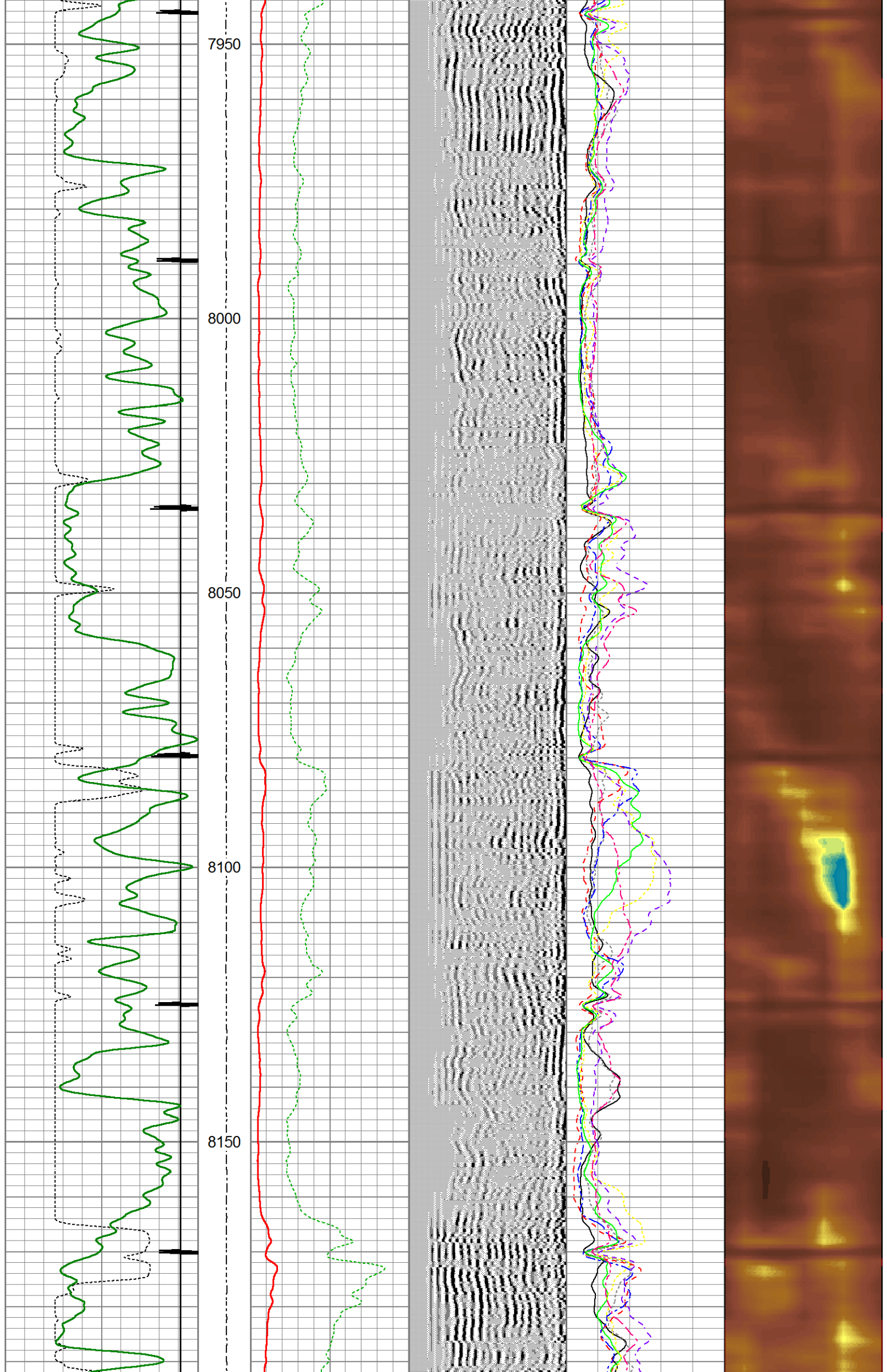


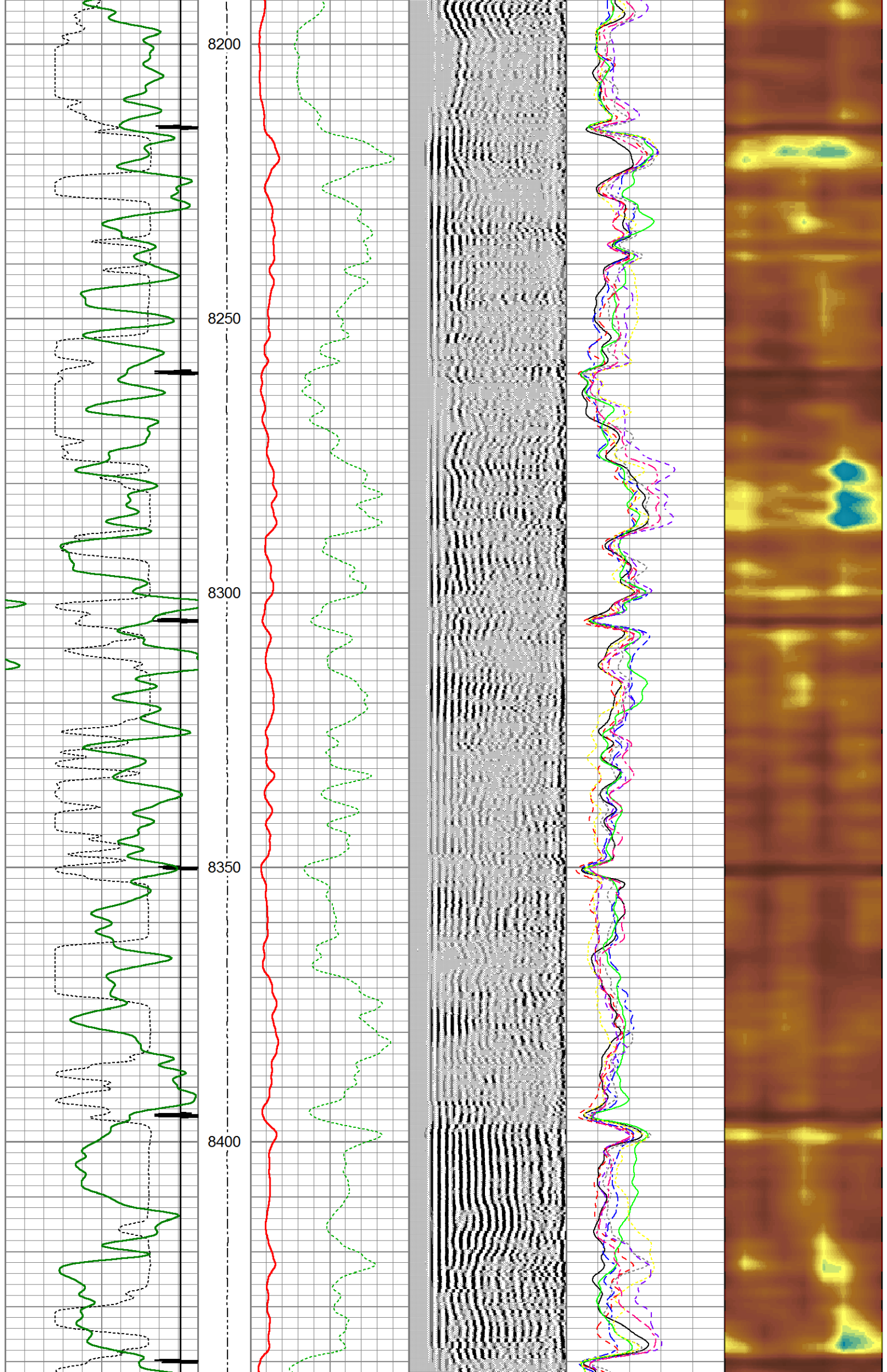


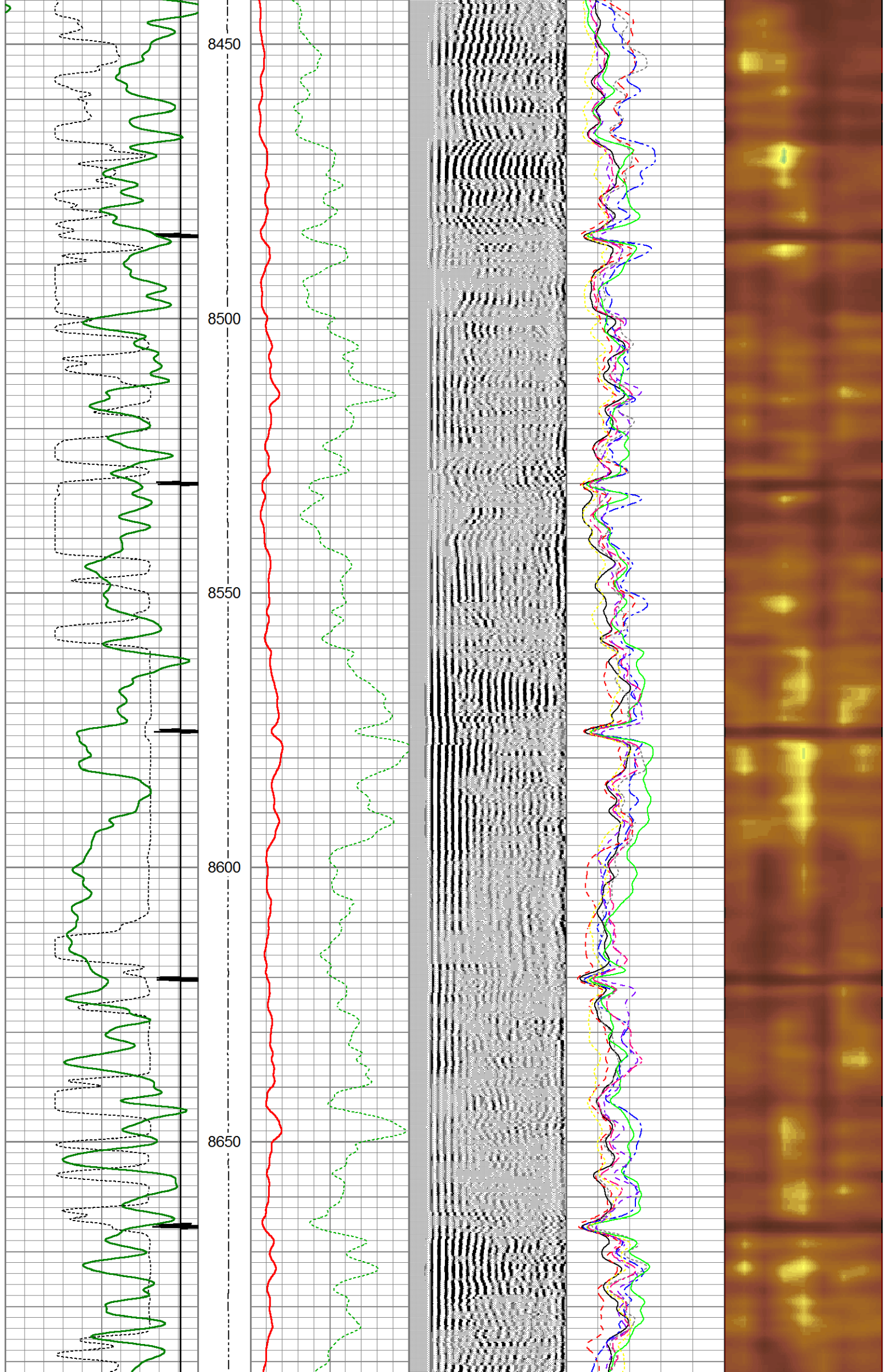


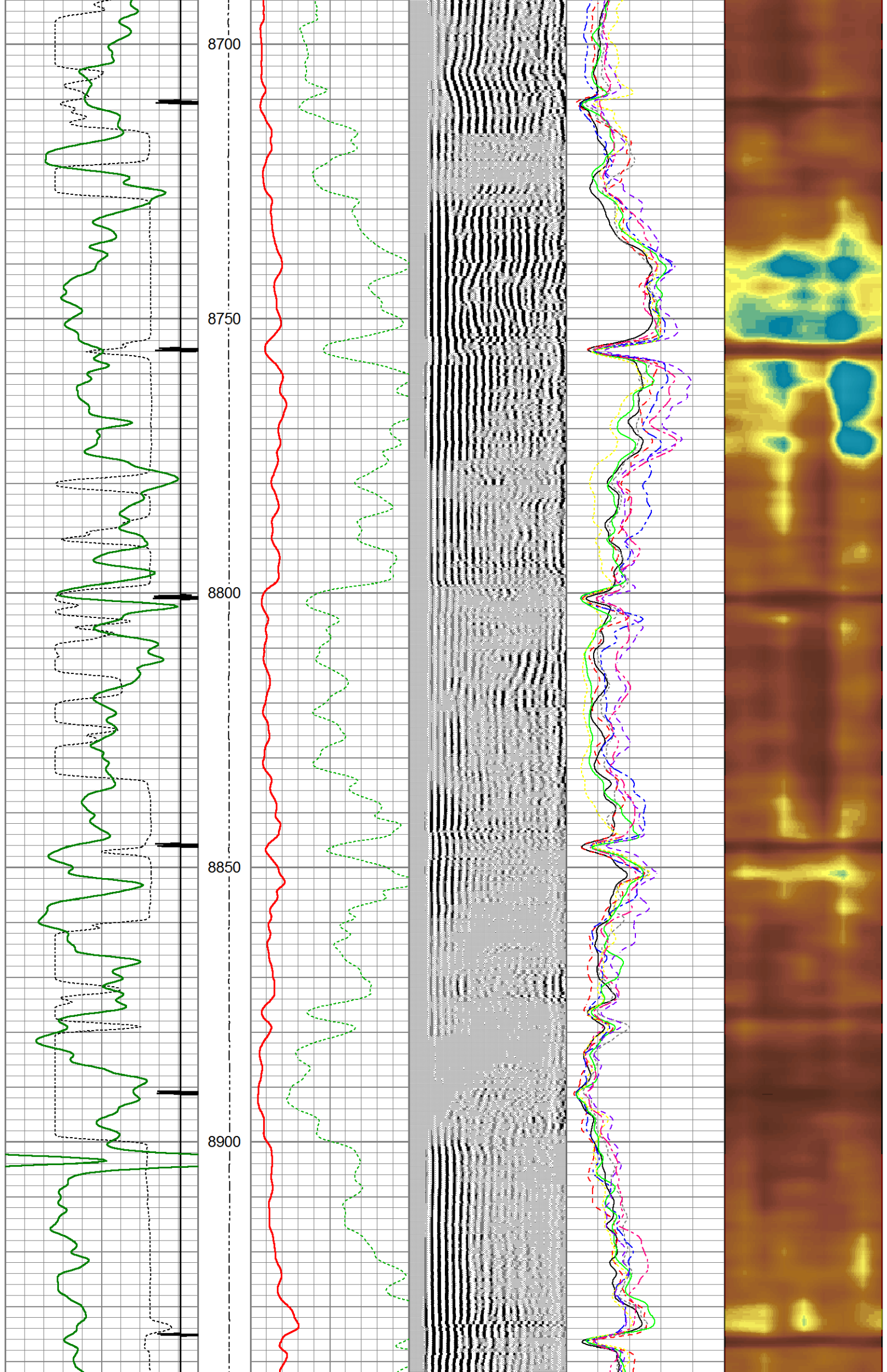


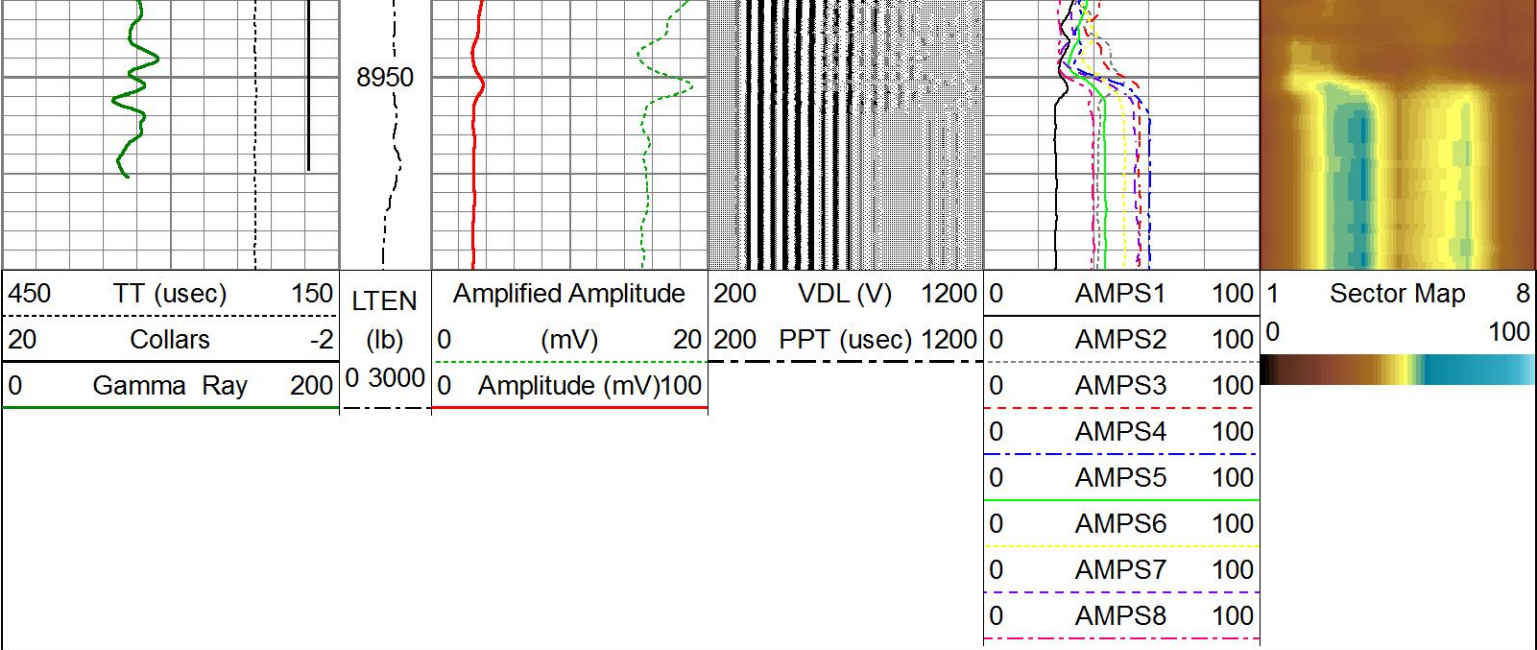










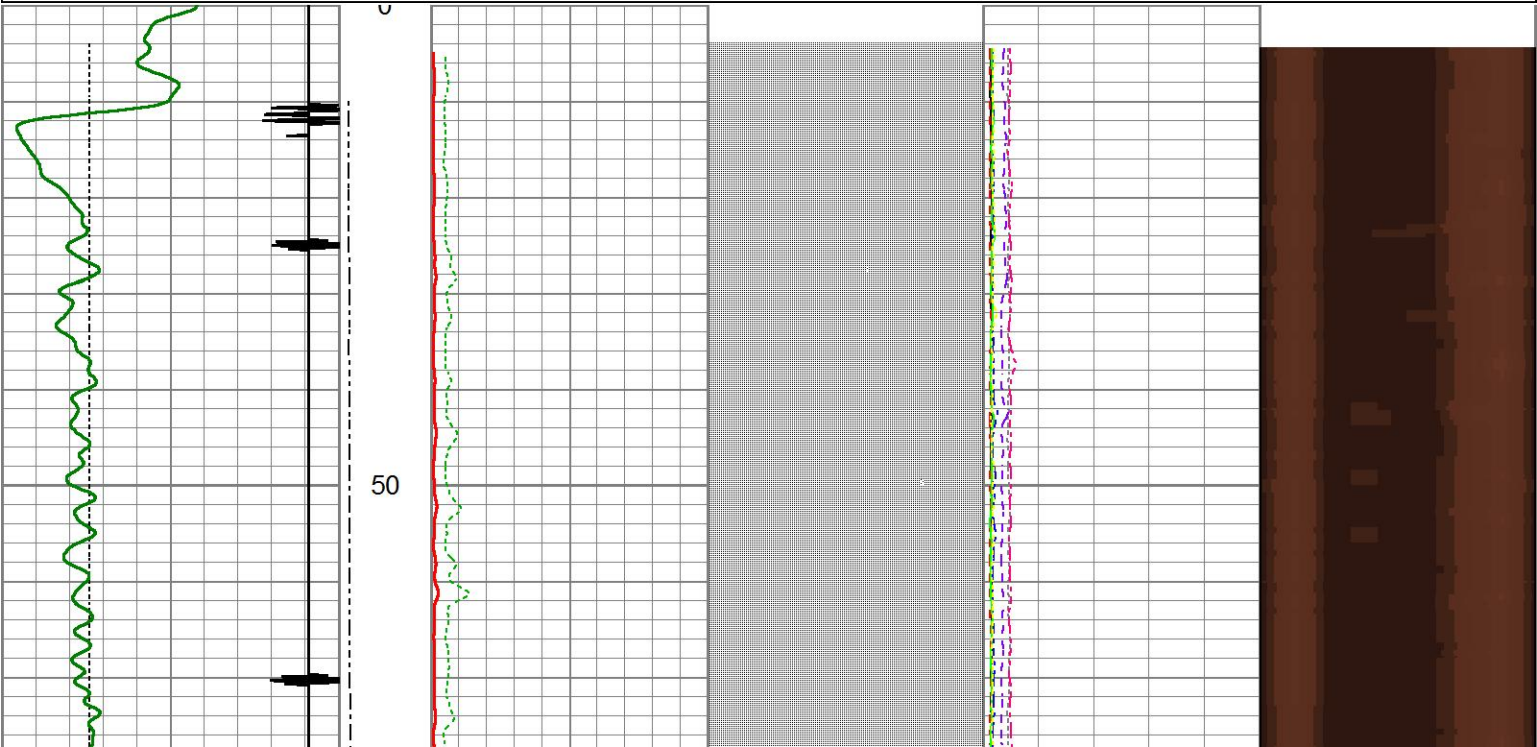
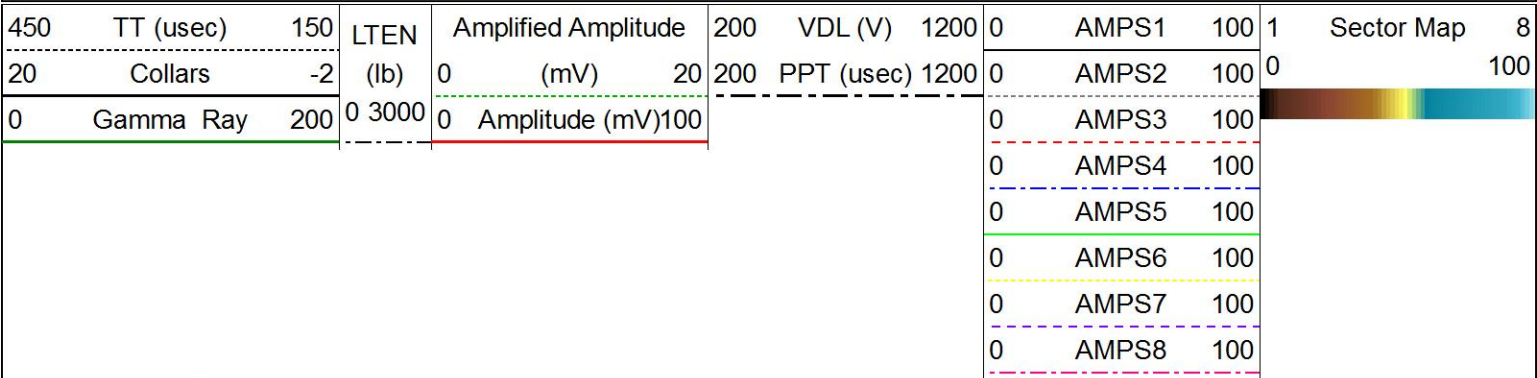


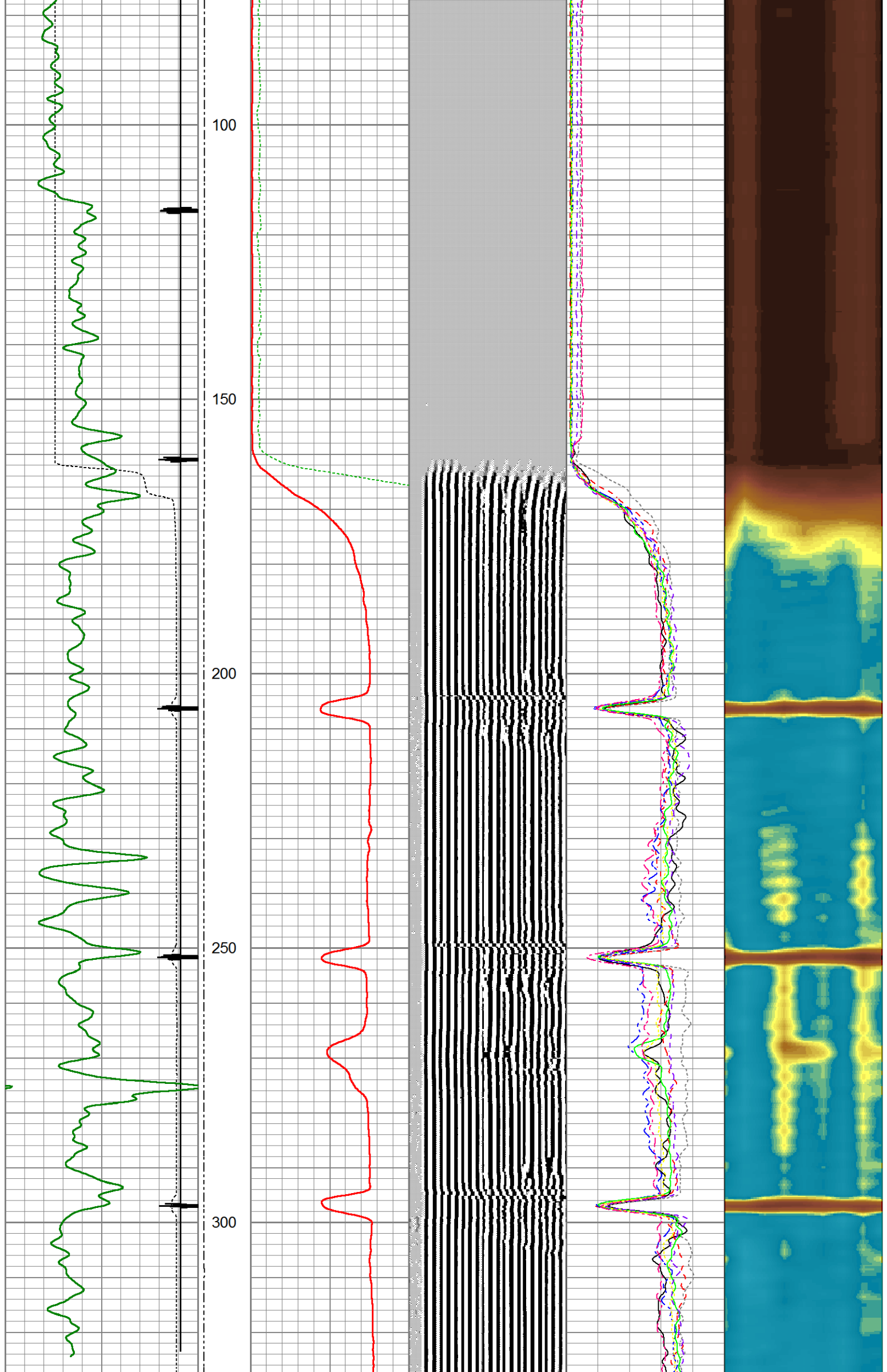
MAIN PASS
SECTOR BOND LOG

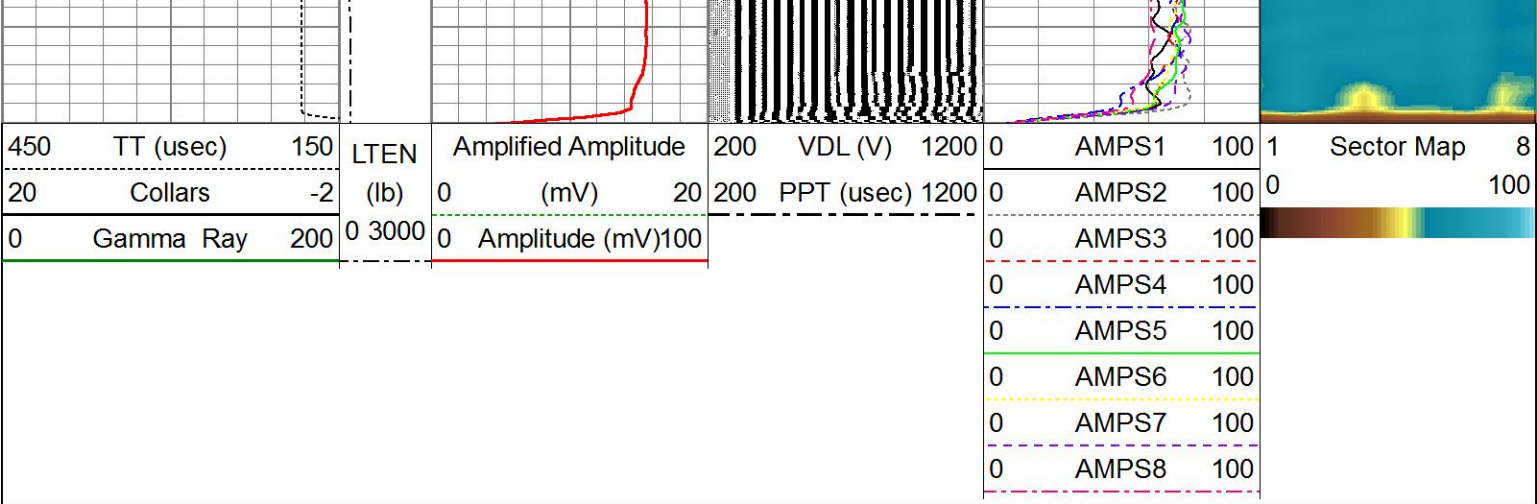


REPEAT PASS
SECTOR BOND LOG

Database File g:\caerus puckett pad day 1\puckett 32b-26 sbt\caerus32b.db
Dataset Pathname pass2.1
Presentation Format sectors2
Dataset Creation Fri May 12 20:03:25 2017
Charted by Depth in Feet scaled 1:240







Weatherford®

REPEAT PASS

SECTOR BOND LOG

Calibration Report	
Database File	G:\CAERUS PUCKETT PAD DAY 1\PUCKETT 32B-26 SBT\caerus32b.db
Dataset Pathname	pass2.1
Dataset Creation	Fri May 12 20:03:25 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	276.220	0.000
5'	0.600	80.000	-0.003	0.640	123.438	1.023
S1	0.000	85.000	-0.004	0.283	213.832	1.098
S2	0.000	85.000	-0.004	0.300	201.103	1.210
S3	0.000	85.000	-0.005	0.276	227.160	1.386
S4	0.000	85.000	-0.005	0.277	246.395	1.437
S5	0.000	85.000	-0.005	0.258	264.271	1.546
S6	0.000	85.000	-0.005	0.280	243.885	1.455
S7	0.000	85.000	-0.005	0.286	263.030	1.406
S8	0.000	85.000	-0.004	0.269	224.148	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)
			CabIHD-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

Tool Joint	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)	Tool Joint Description	Tool Joint Length (ft)	Tool Joint Weight (lb)	Tool Joint O.D. (in)
CCL	23.43			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	7.70			SCBT-SCBT2.7H (SBTA330) 2 3/4" 350F/20K PSI Weatherford Sector Bond Tool	10.29	2.75	90.00
WVFS7	7.70						
WVFS6	7.70						
WVFS5	7.70						
WVFS4	7.70						
WVFS3	7.70						
WVFS2	7.70						
WVFS1	7.70						
WVF3FT	7.20						
WVF5FT	6.22						
WVFSYNC	2.71			CENT-CEN-A SBT Centralizer 2-3/4" Single Pin (4 Bowspring)	2.50	2.75	11.90
WVFCAL	2.71			BullPlug-BullPlug 1.69	0.21	2.75	2.00
Dataset: caerus32b.db: field/well/run1/pass2.1 Total length: 27.74 ft Total weight: 184.60 lb O.D.: 2.75 in							