



# CEMENT EVALUATION LOG RADII SECTOR TOOL FINAL PRINT

Company **TABULA RASA PARTNERS**  
Well **CADDELL #2**  
Field **OAKDALE**  
County **HUERFANO**  
State **COLORADO**

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Location: **API #: 05-055-06312**  
Other Services  
SEC 4 TWP 28S RGE 69W  
Permanent Datum **GROUND LEVEL** Elevation **7830'**  
Log Measured From **KELLY BUSHING** = 14.5'  
Drilling Measured From **KELLY BUSHING** Elevation **K.B. 7844.5'**  
D.F. 7843.5'  
C.L. 7830'

Date **1/15/14**  
Run Number **ONE**  
Depth Driller **5955'**  
Depth Logger **5852'**  
Bottom Logged Interval **5852'**  
Top Log Interval **550'**  
Open Hole Size **8 3/4"**  
Type Fluid **WATER**  
Density/Viscosity **~ 8.3# PER/GAL**  
Max. Recorded Temp. **67°**  
Estimated Cement Top **1300**  
Time Well Ready **1330**  
Time Logger on Bottom **D-5/RS1632**  
Equipment Number **FARMINGTON, NM**  
Location **C.PAGE**  
Recorded By **RAY**  
Witnessed By

Borehole Record			Tubing Record		
Run Number	Size	From	To	Size	Weight
ONE	17 1/2"	0'			
TWO	12 1/4"	UNK	UNK		
THREE	8 3/4"	UNK	UNK		

Casing Record			Top		
Surface String	Size	Weight	Bottom		
Prod. String	13 3/8"	48# H40	106'		
Production String	9 5/8"	36# J55	590'		
Lineer	7"	26# L-80 & J55	5955'		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

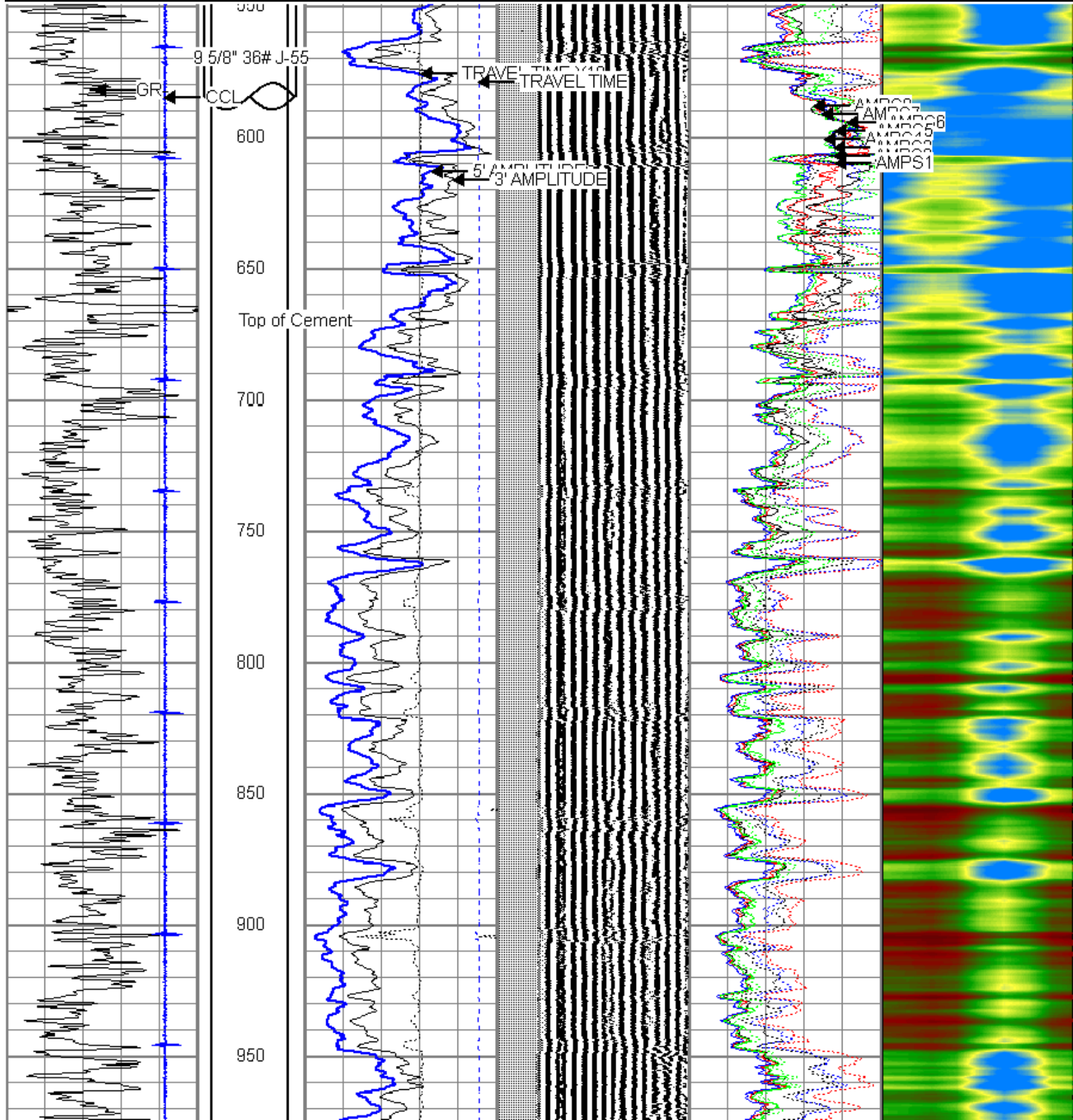
## Comments

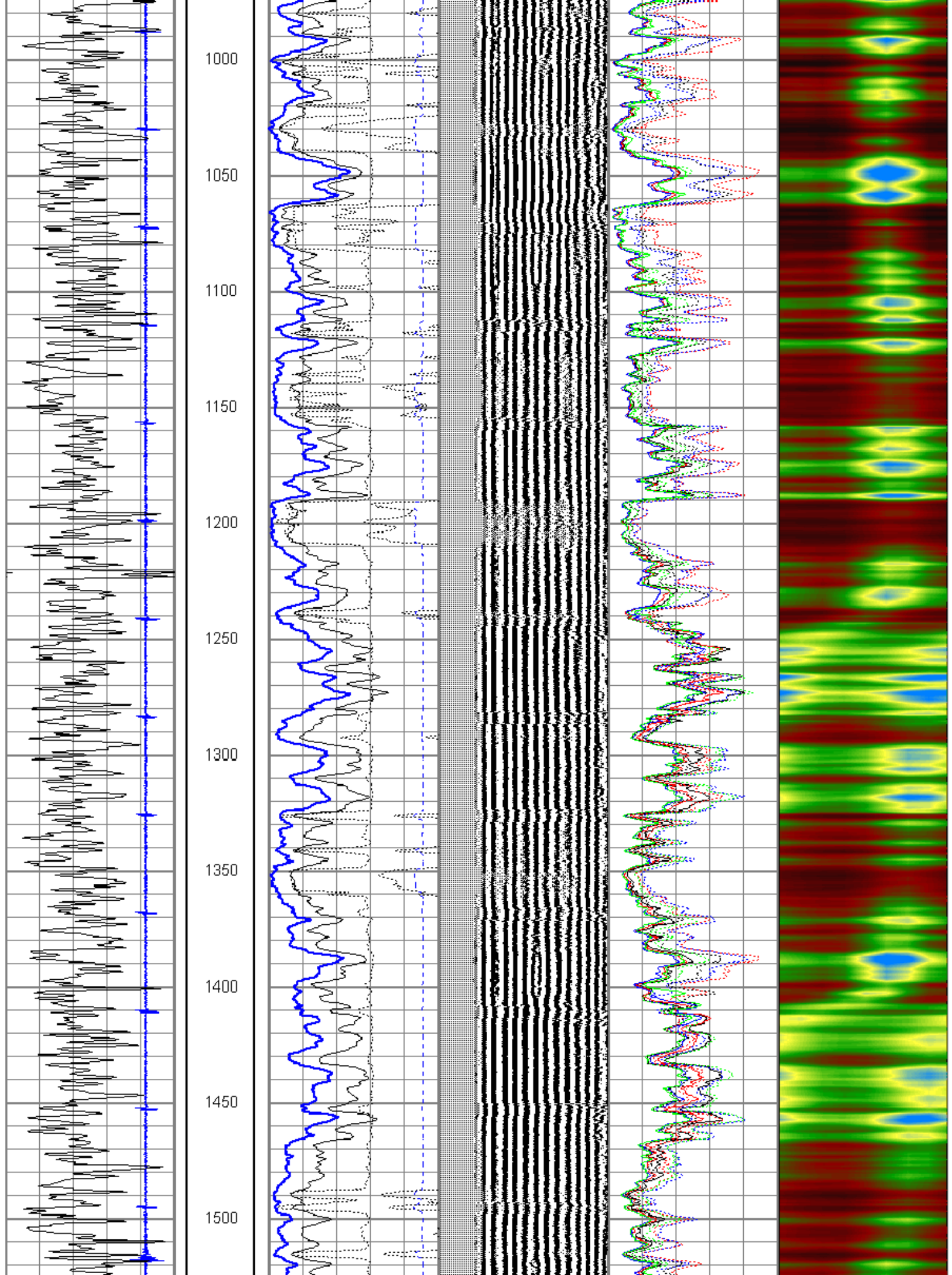
**LOG CORRELATED TO BAKERHUGHES HIGH INDUCTION LOG DATED 12/15/2013**  
**LOGGED UNDER 0 PSI.**  
**SHORT JOINT @ 5082' - 5103'**

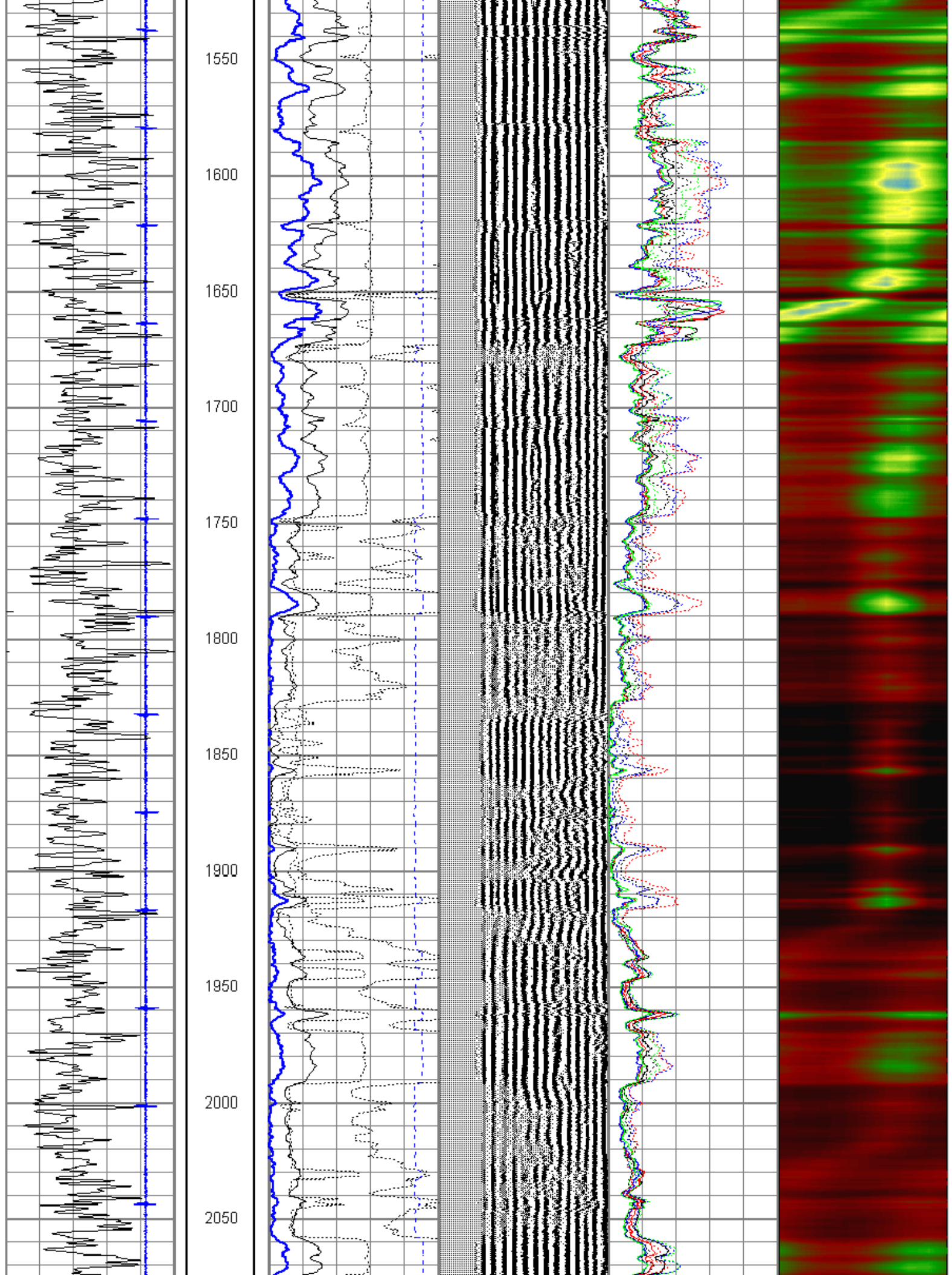
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)

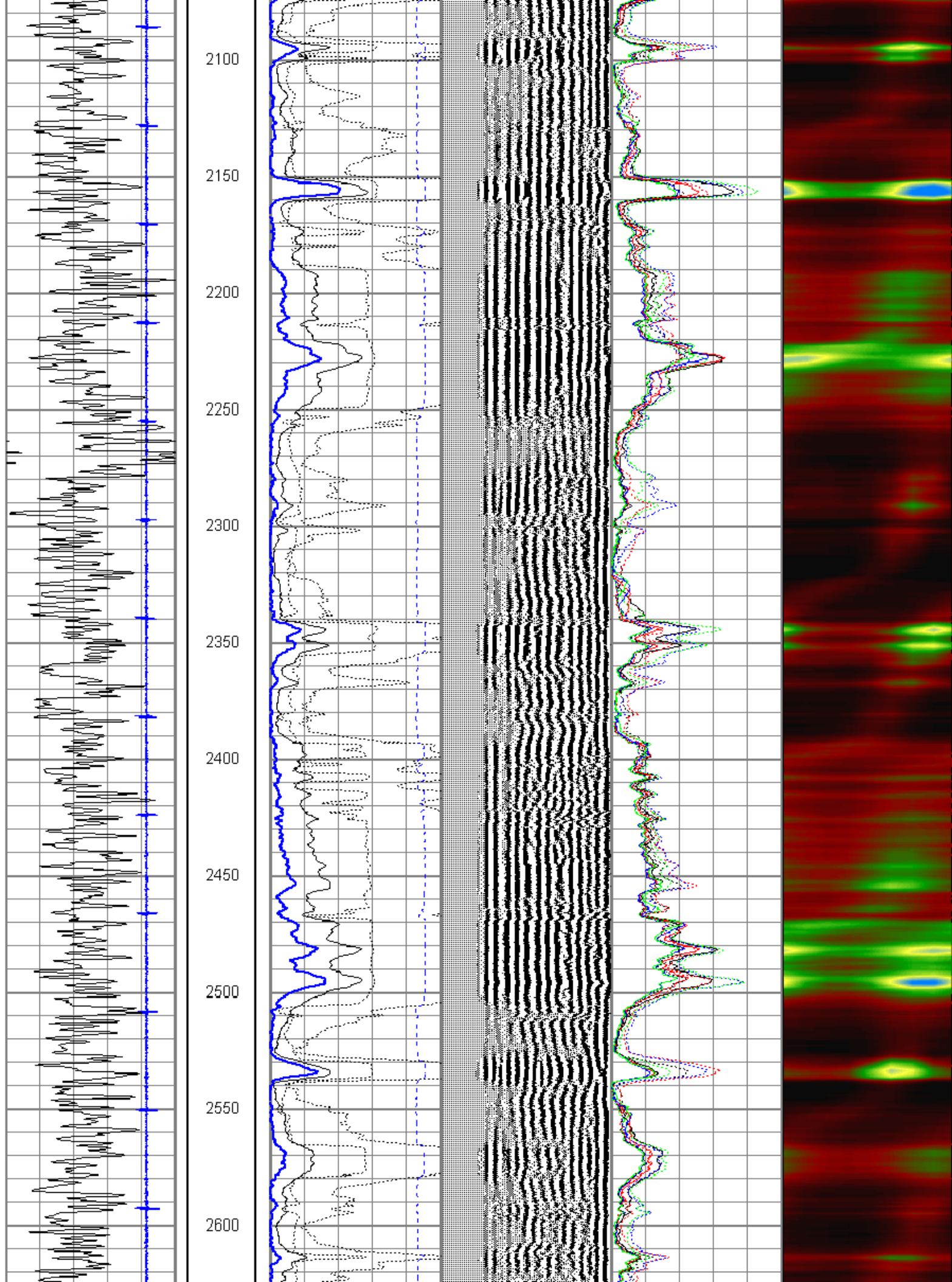
			Probe (PTS_MONO)	2.88	2.75	35.00

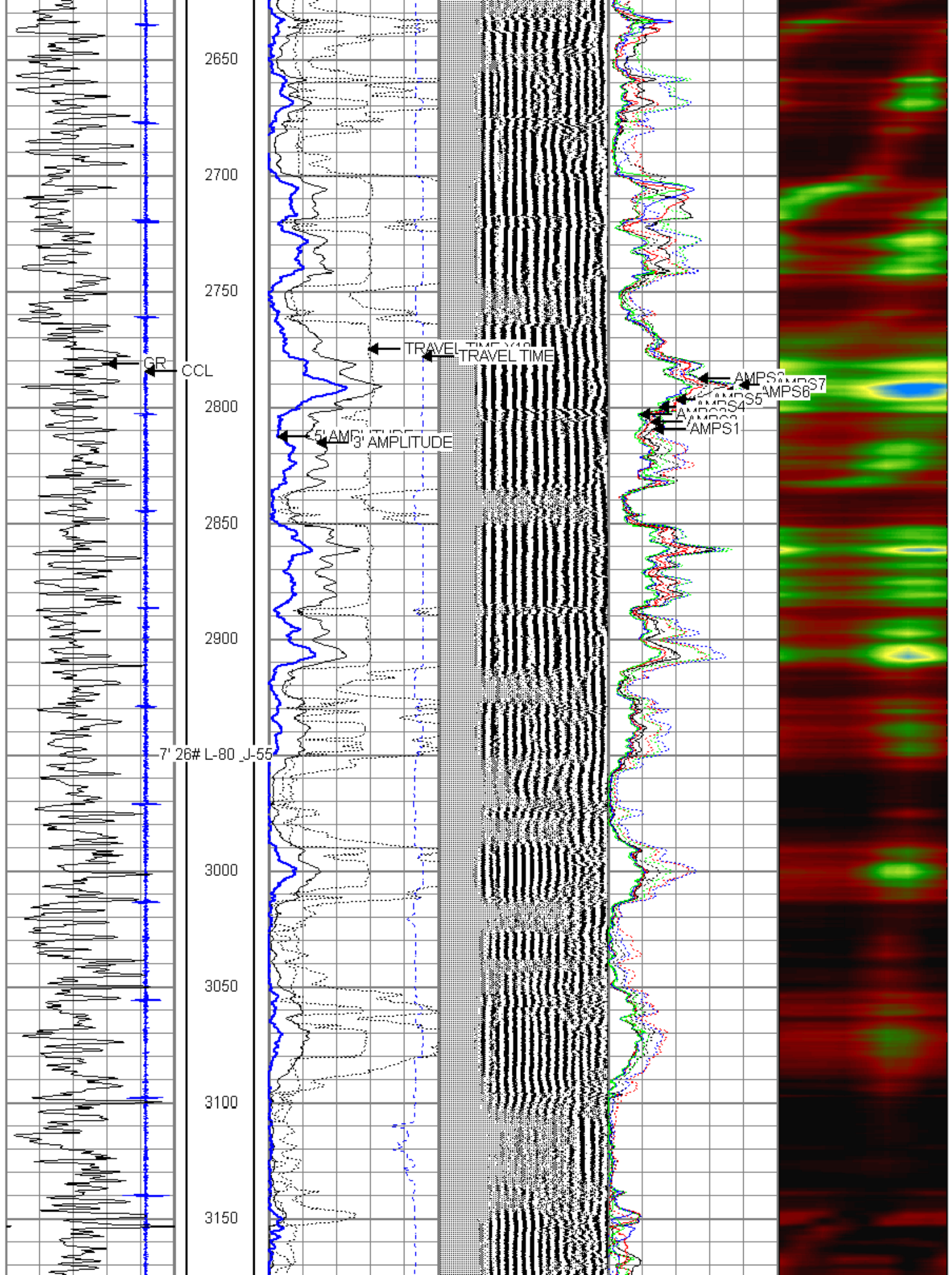
-5	CCL	1	3' AMPLITUDE	200	VDL	1200	0	AMPS1	80	1	Cement Map	8
0	GR (GAPI)	150	(mV)	80			0	AMPS2	80	1		60
			AMPx5 (mV)	16			0	AMPS3	80			
			TRAVEL TIME				0	AMPS4	80			
			(usec)	200			0	AMPS5	80			
			5' AMPLITUDE				0	AMPS6	80			
			(mV)	80			0	AMPS7	80			
			TRAVEL TIME X10				0	AMPS8	80			
			(usec)	250								

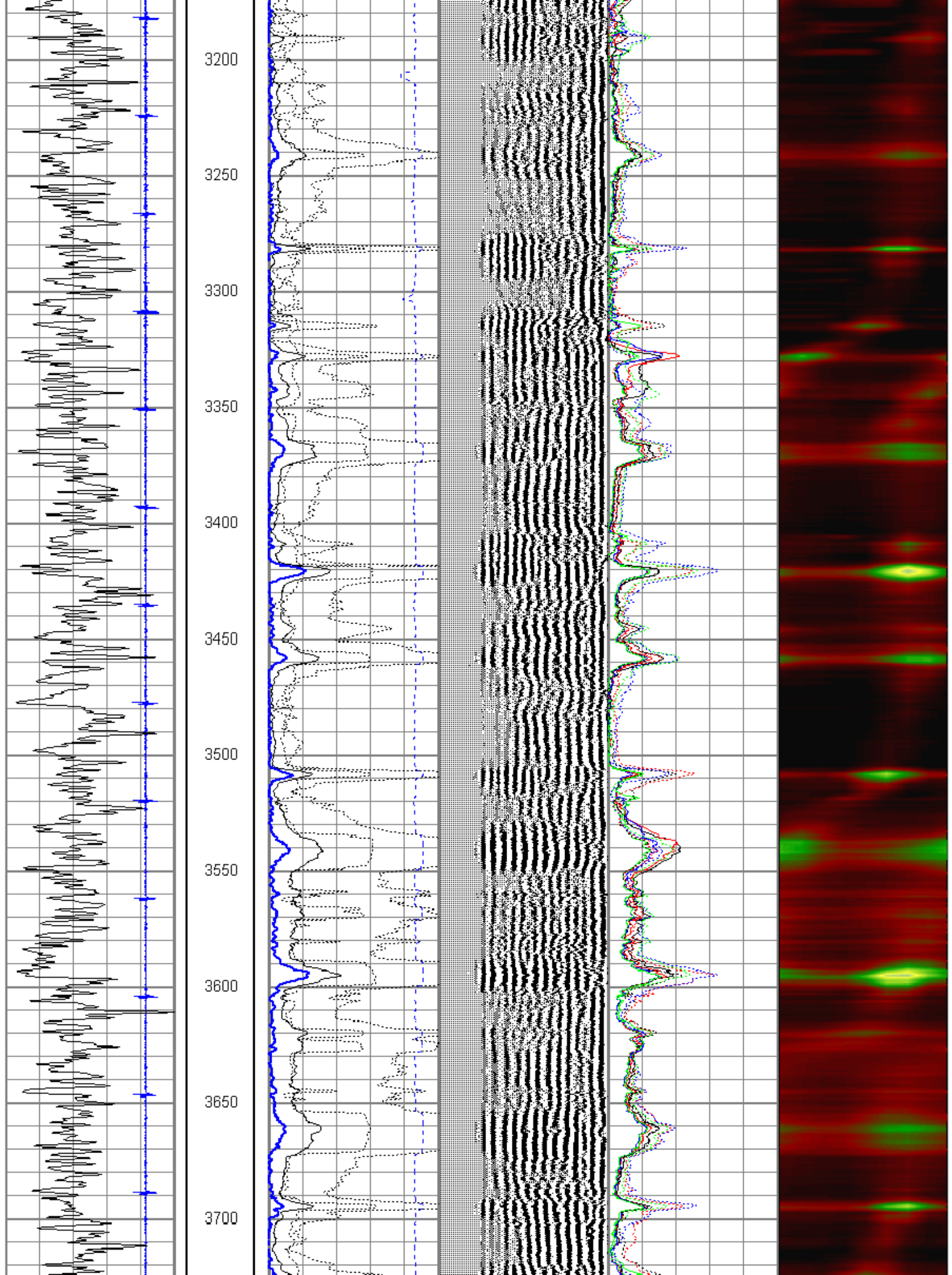


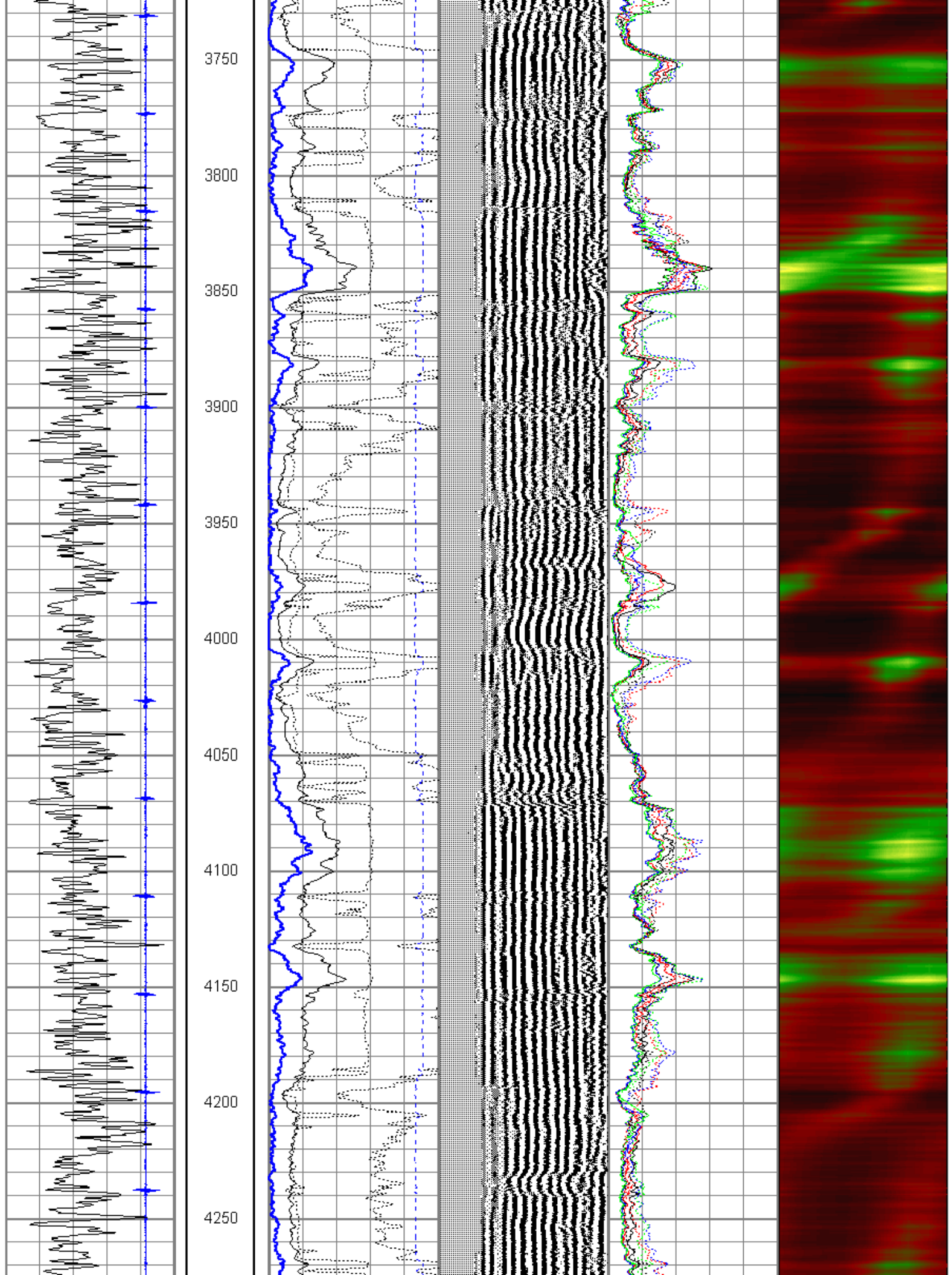


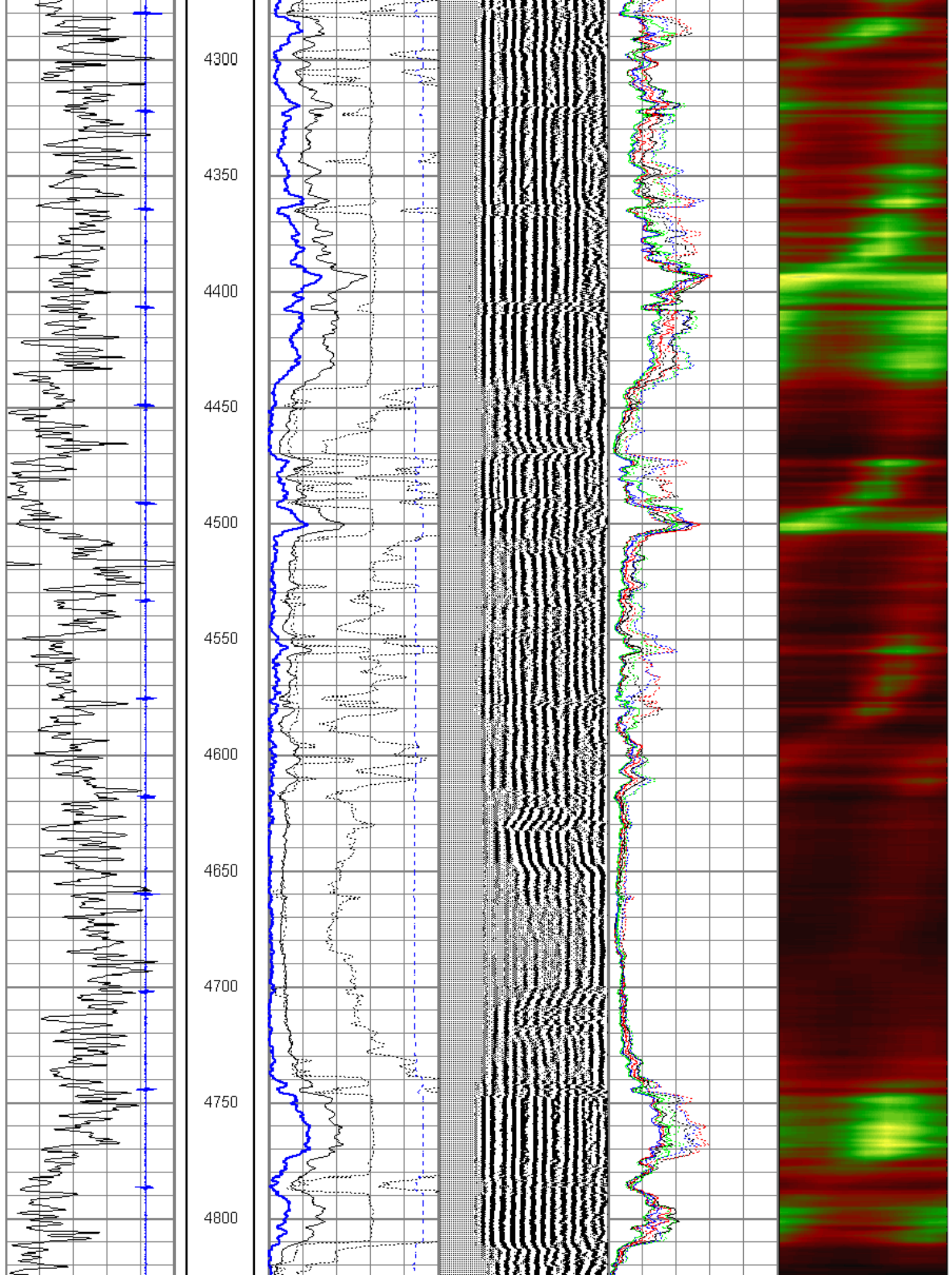


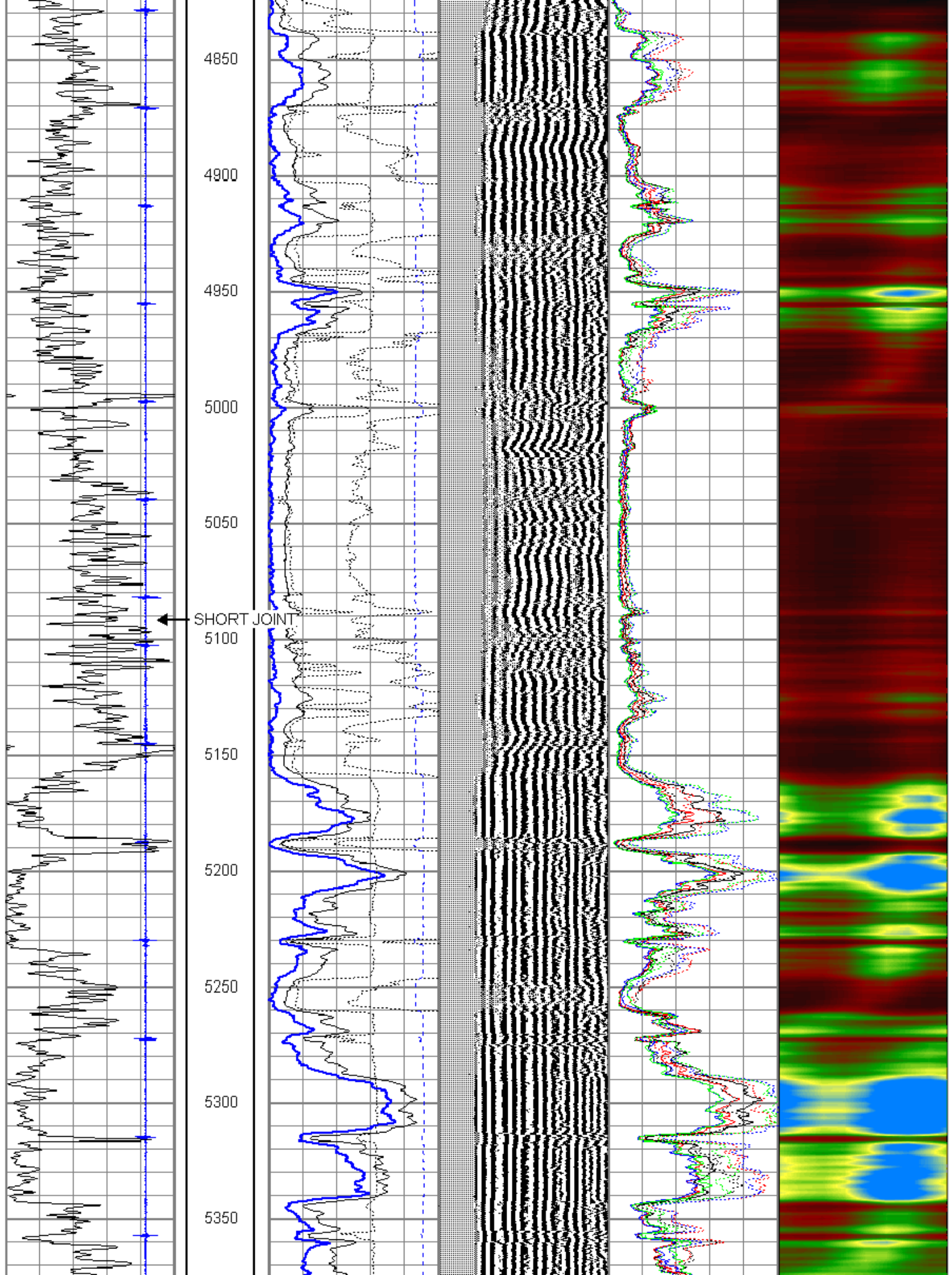


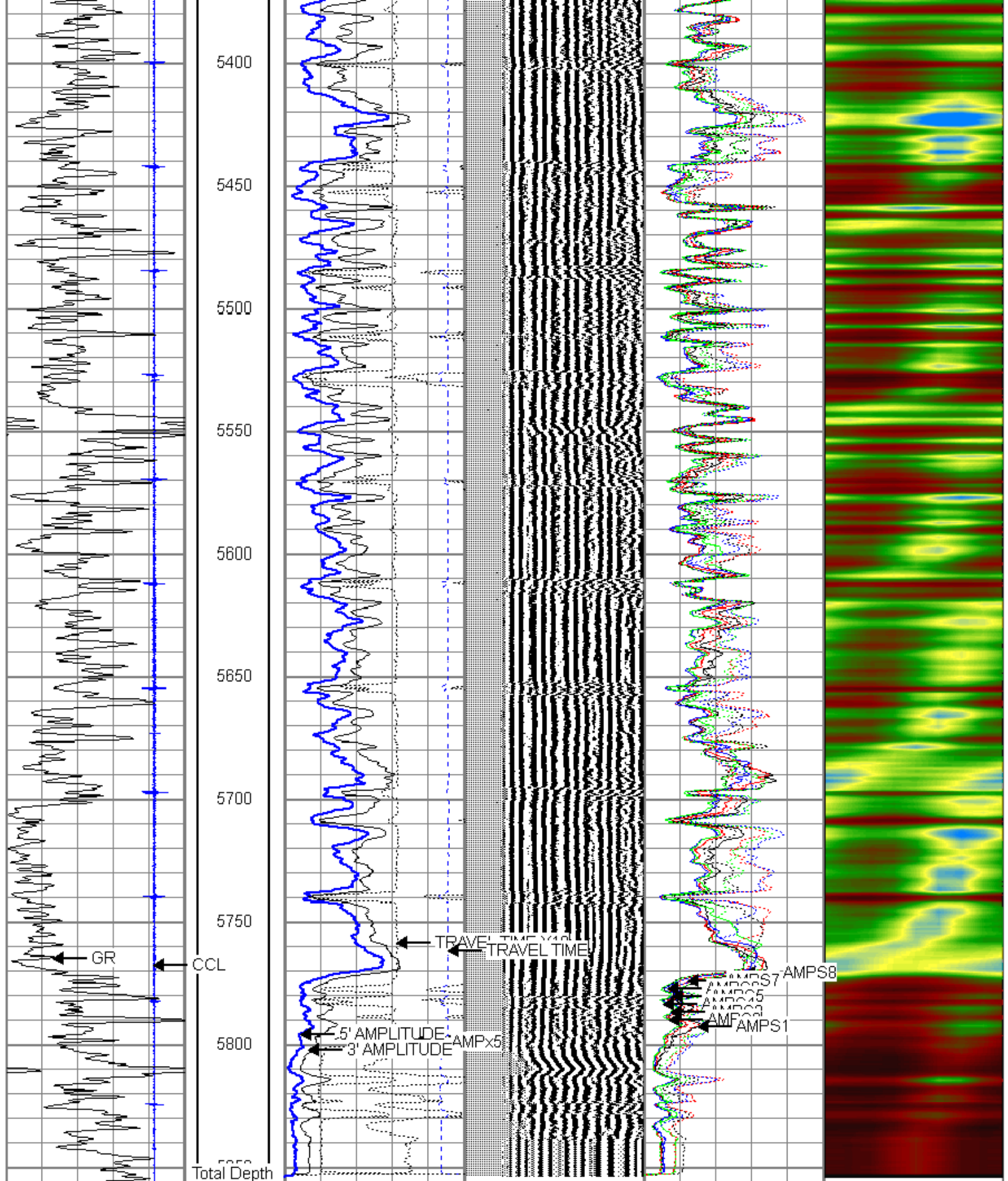










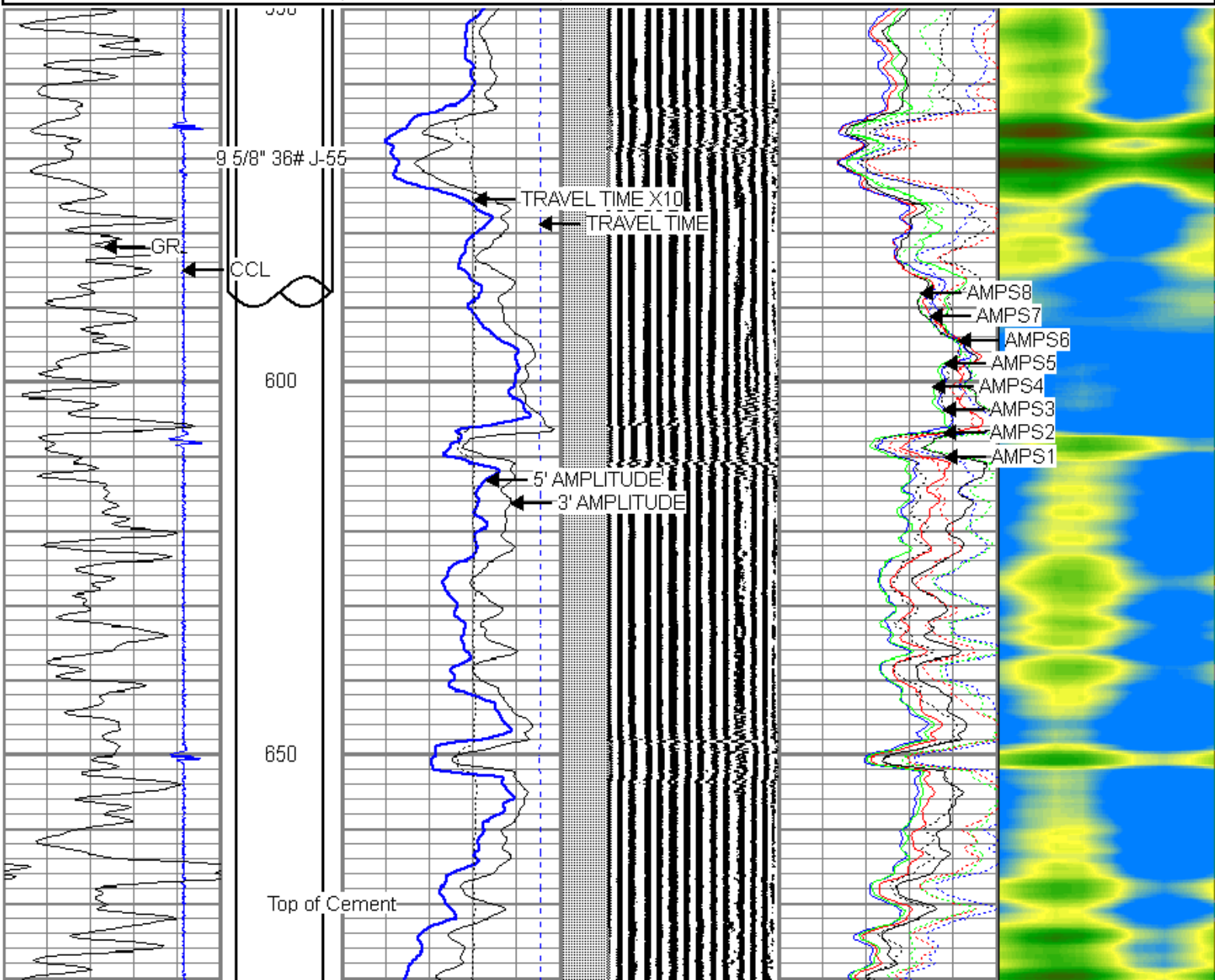


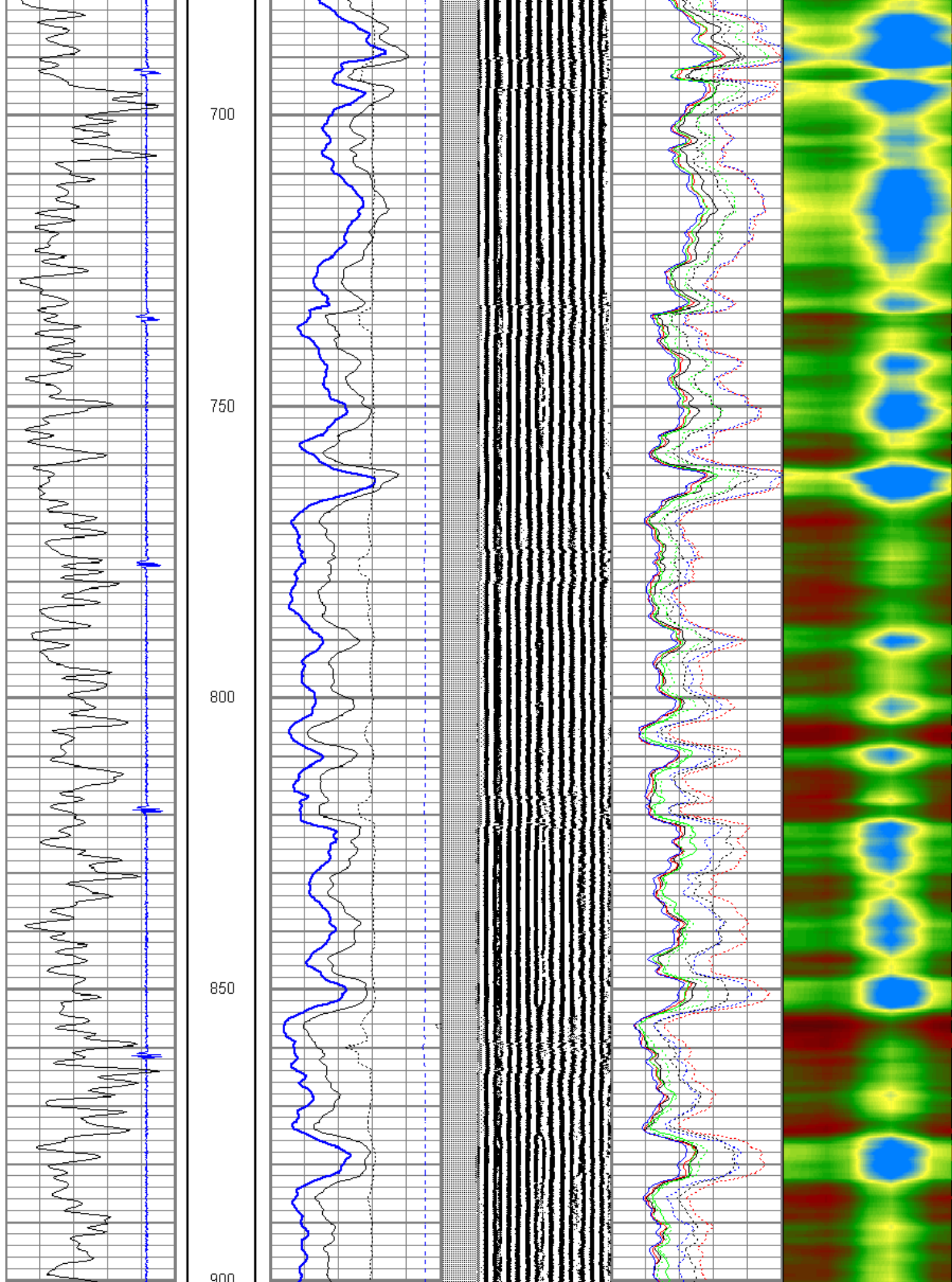
-5	CCL	1	3' AMPLITUDE	200	VDL	1200	0	AMPS1	80	1	Cement Map	8
0	GR (GAPI)	150	0 (mV)	80			0	AMPS2	80	1		80
			0 AMPx5 (mV)	16			0	AMPS3	80			
			TRAVEL TIME				0	AMPS4	80			
			1200 (μsec)	200			0	AMPS5	80			

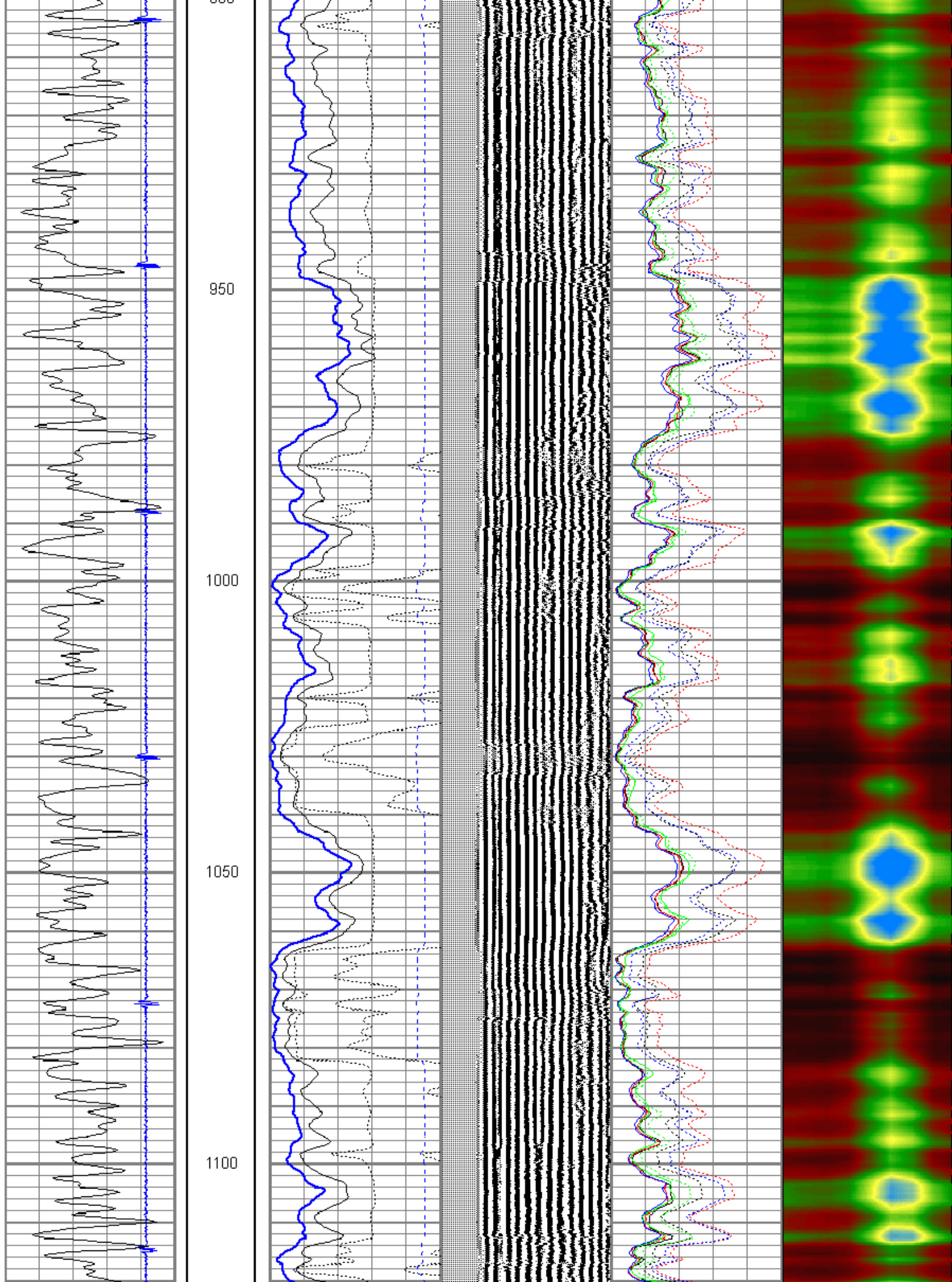
1200	(usec)	250	0	AMPS6	80
5' AMPLITUDE			0	AMPS7	80
0	(mV)	80	0	AMPS8	80
TRAVEL TIME X10					
350	(usec)	250			

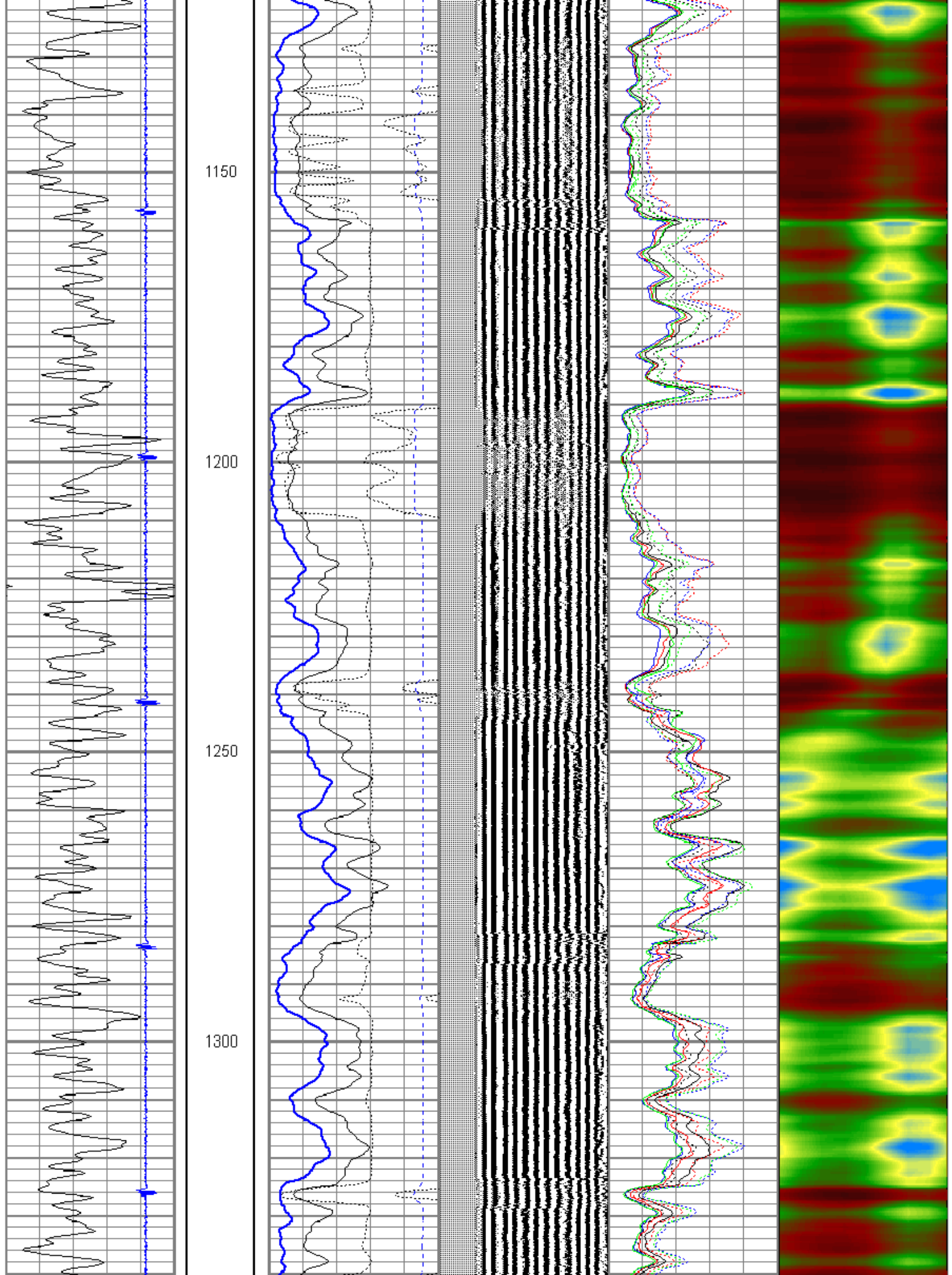
Database File	tabularasacaddell2cbl.db
Dataset Pathname	pass3
Presentation Format	rst7inpl
Dataset Creation	Wed Jan 15 14:13:22 2014
Charted by	Depth in Feet scaled 1:240

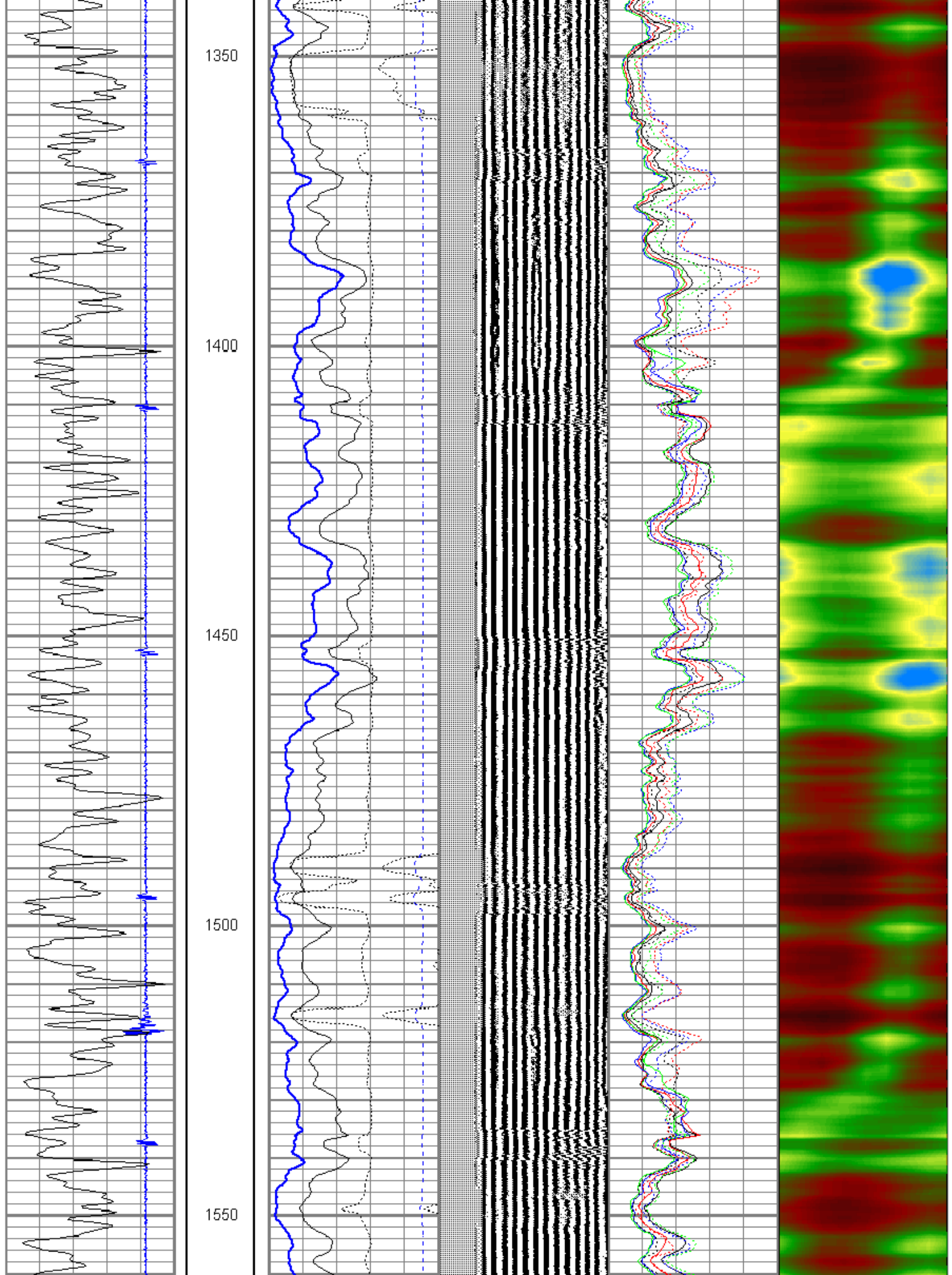
-5	CCL	1	200	VDL	1200	0	AMPS1	80	1	Cement Map	8
0	GR (GAPI)	150	0	(mV)	80	0	AMPS2	80	1		60
			0	AMPx5 (mV)	16	0	AMPS3	80			
			TRAVEL TIME			0	AMPS4	80			
			1200	(usec)	200	0	AMPS5	80			
			5' AMPLITUDE			0	AMPS6	80			
			0	(mV)	80	0	AMPS7	80			
			TRAVEL TIME X10			0	AMPS8	80			
			350	(usec)	250						

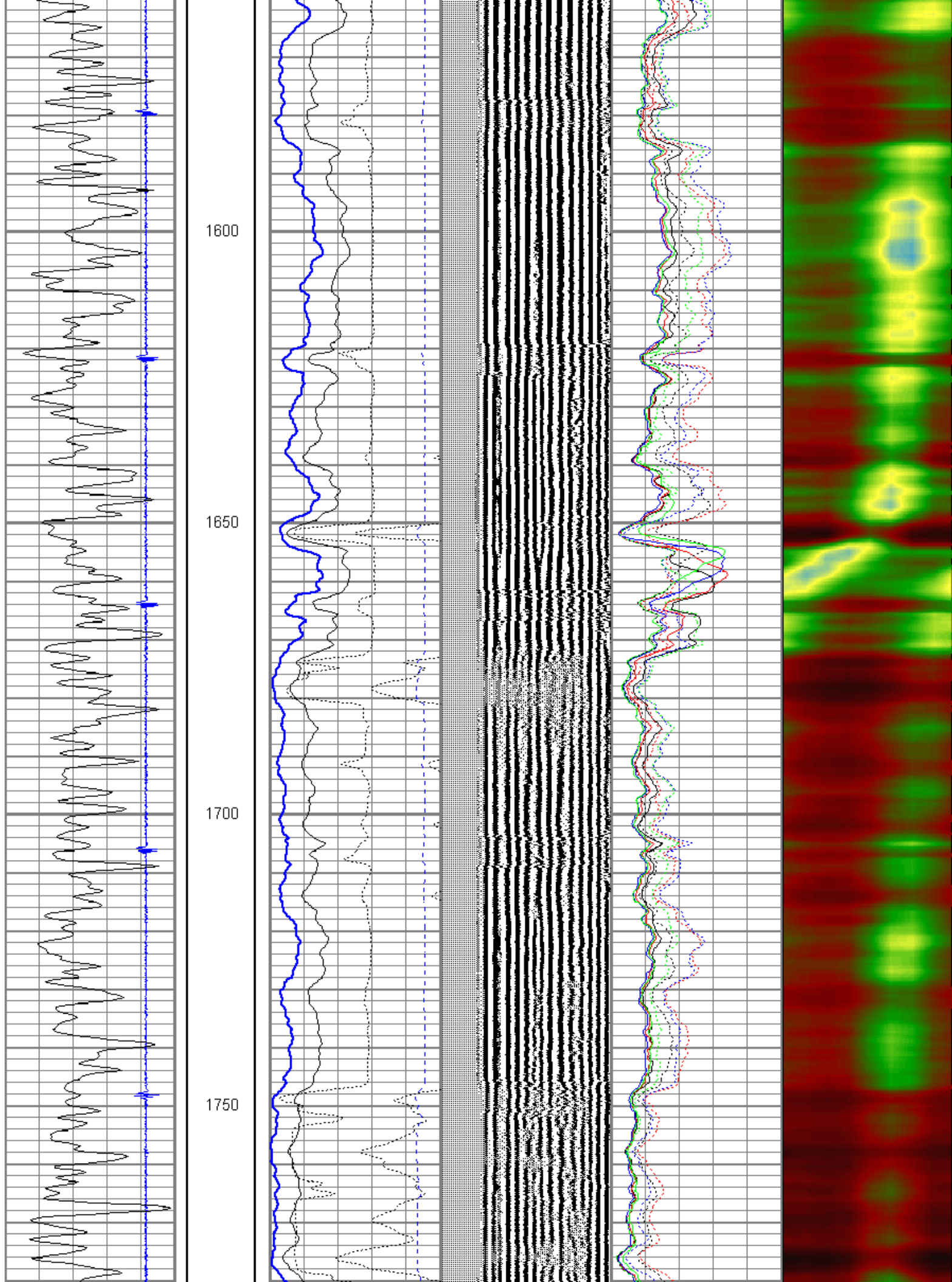


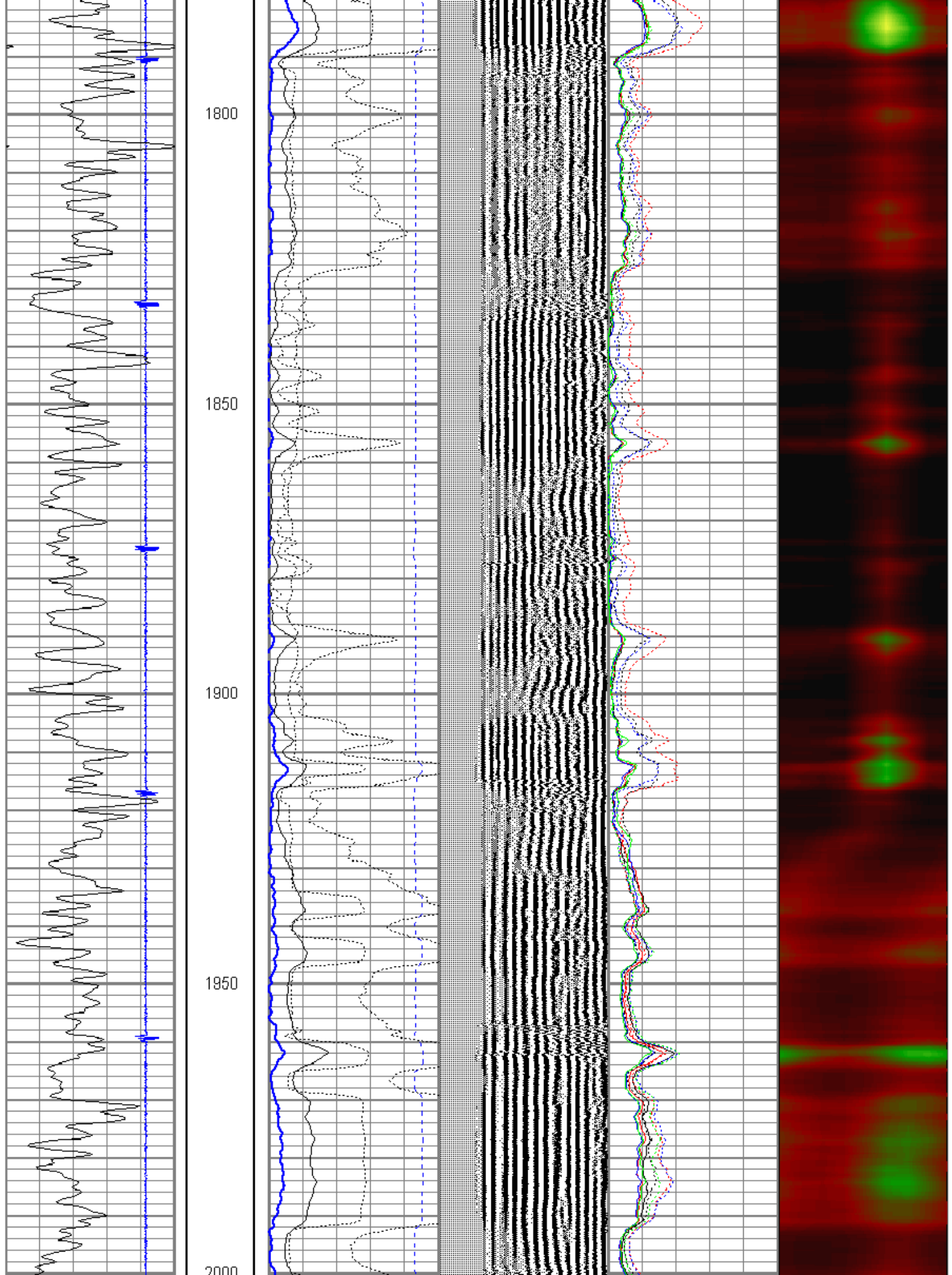


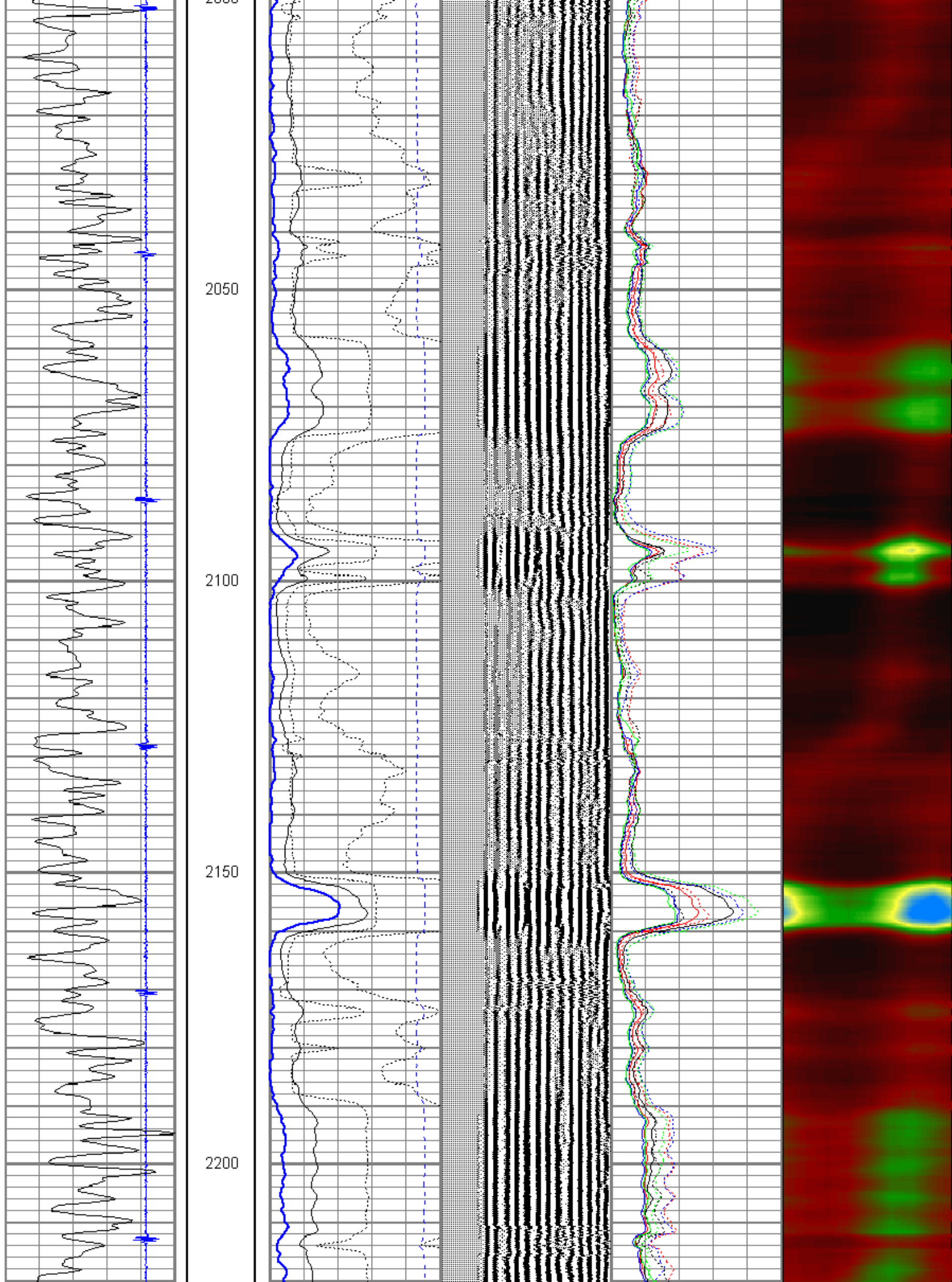


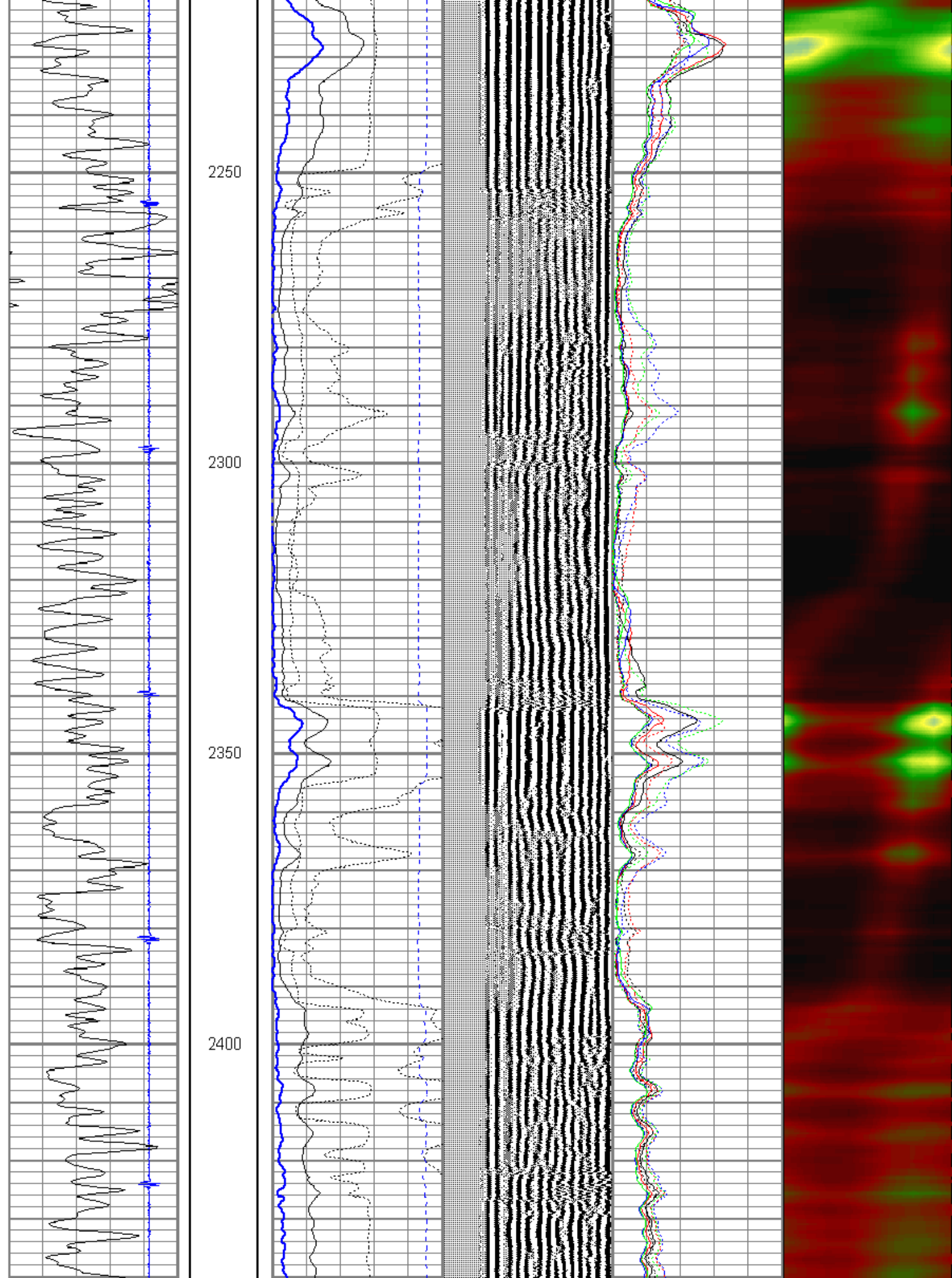


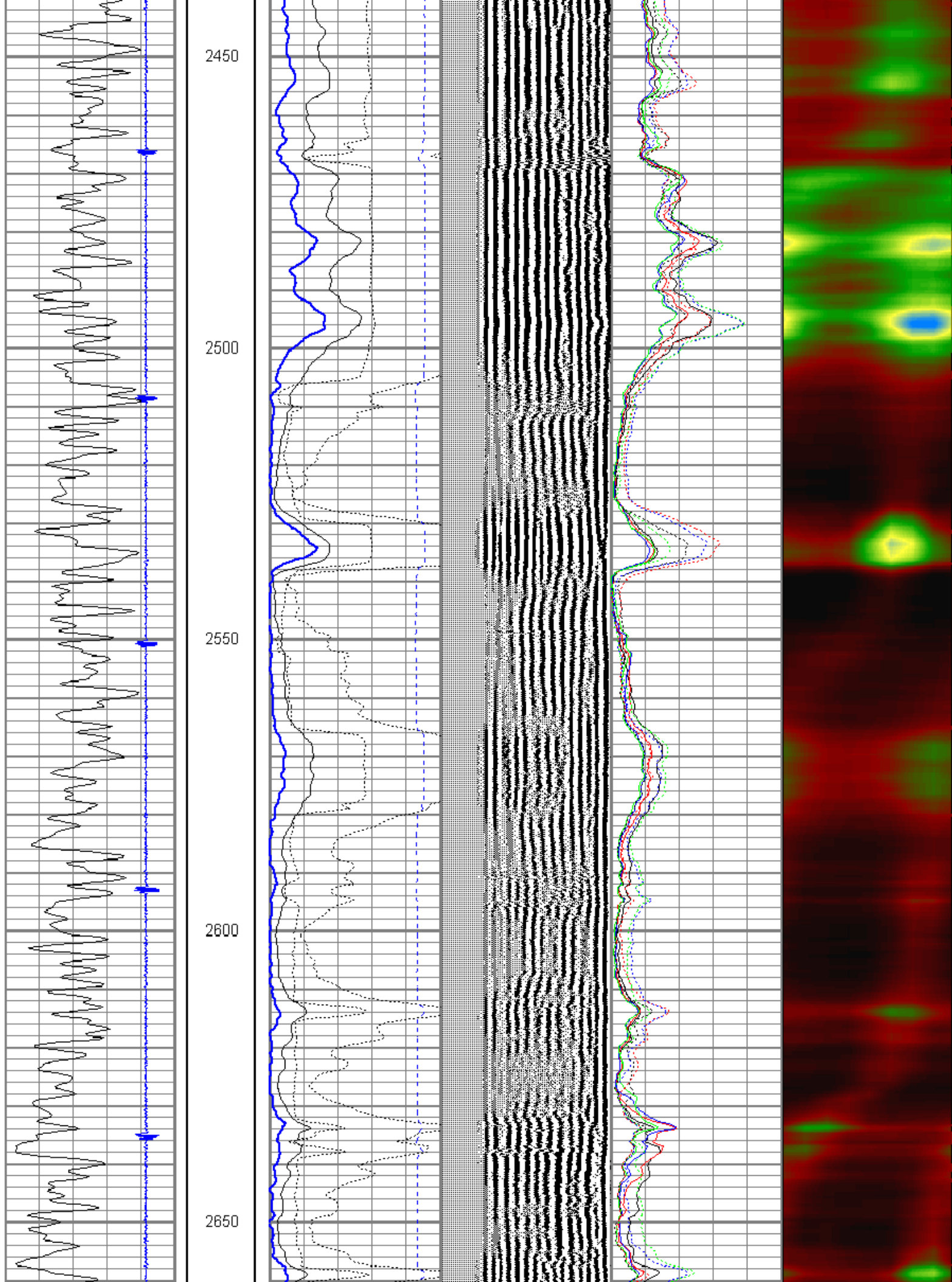


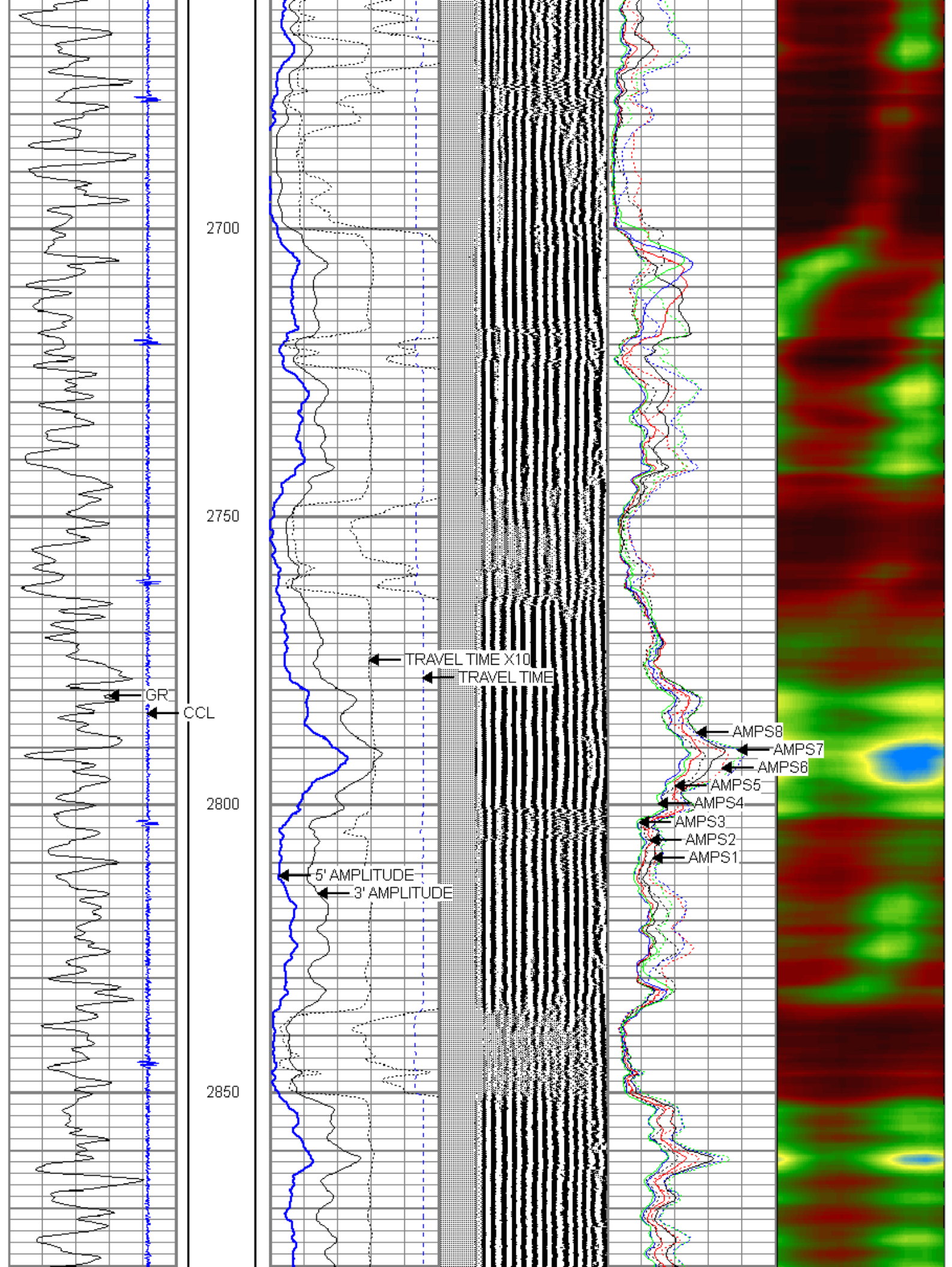


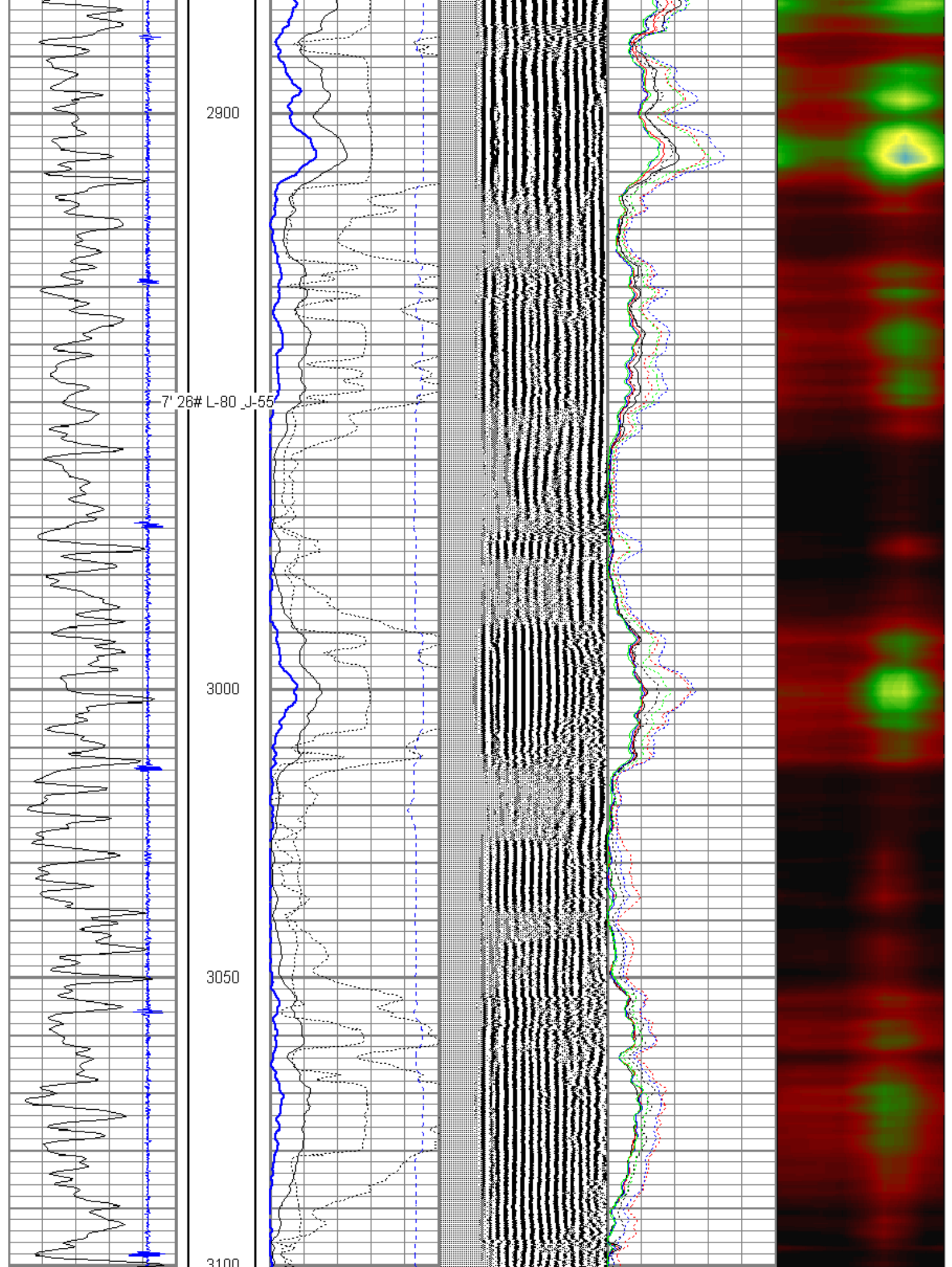


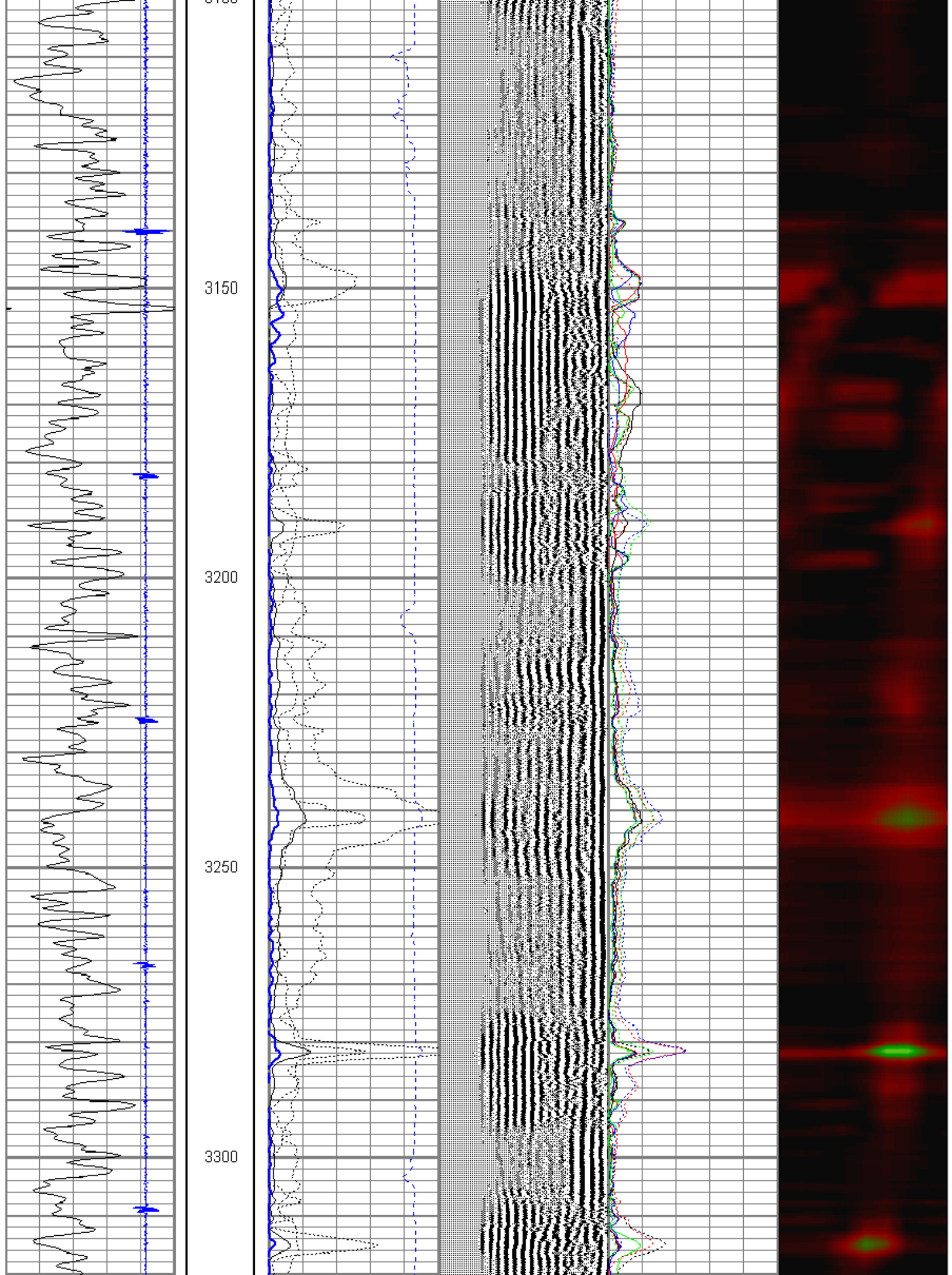


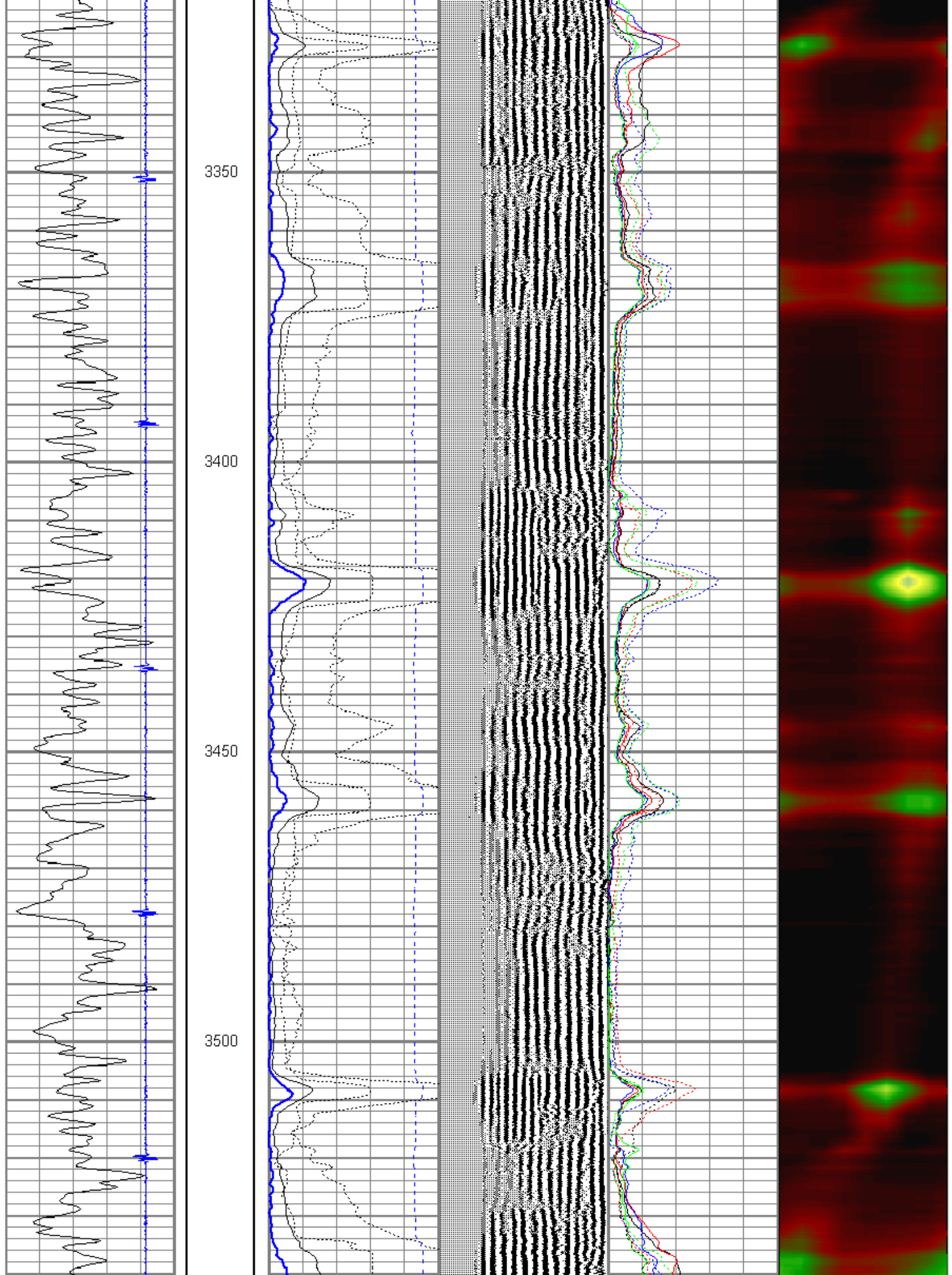


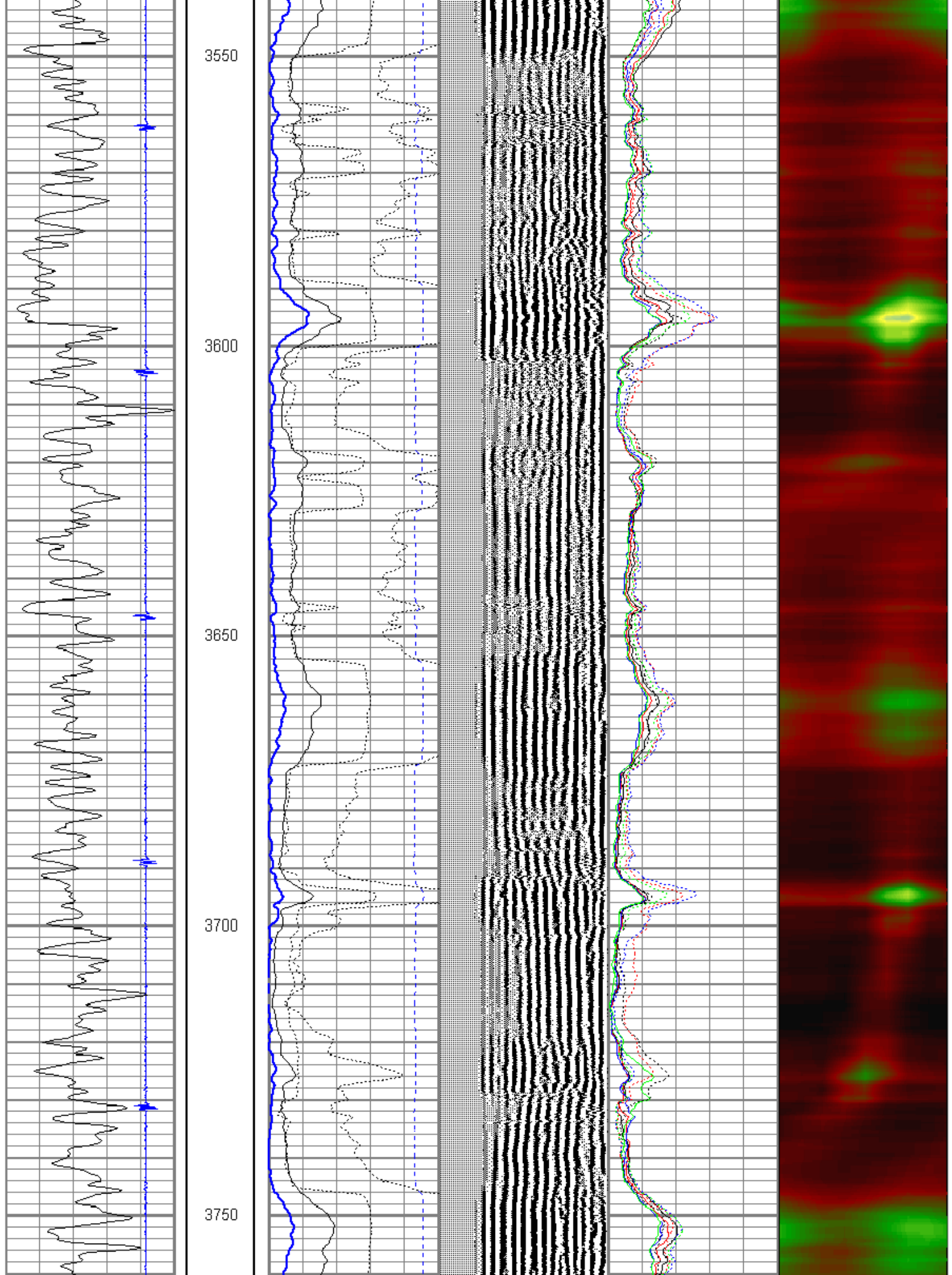


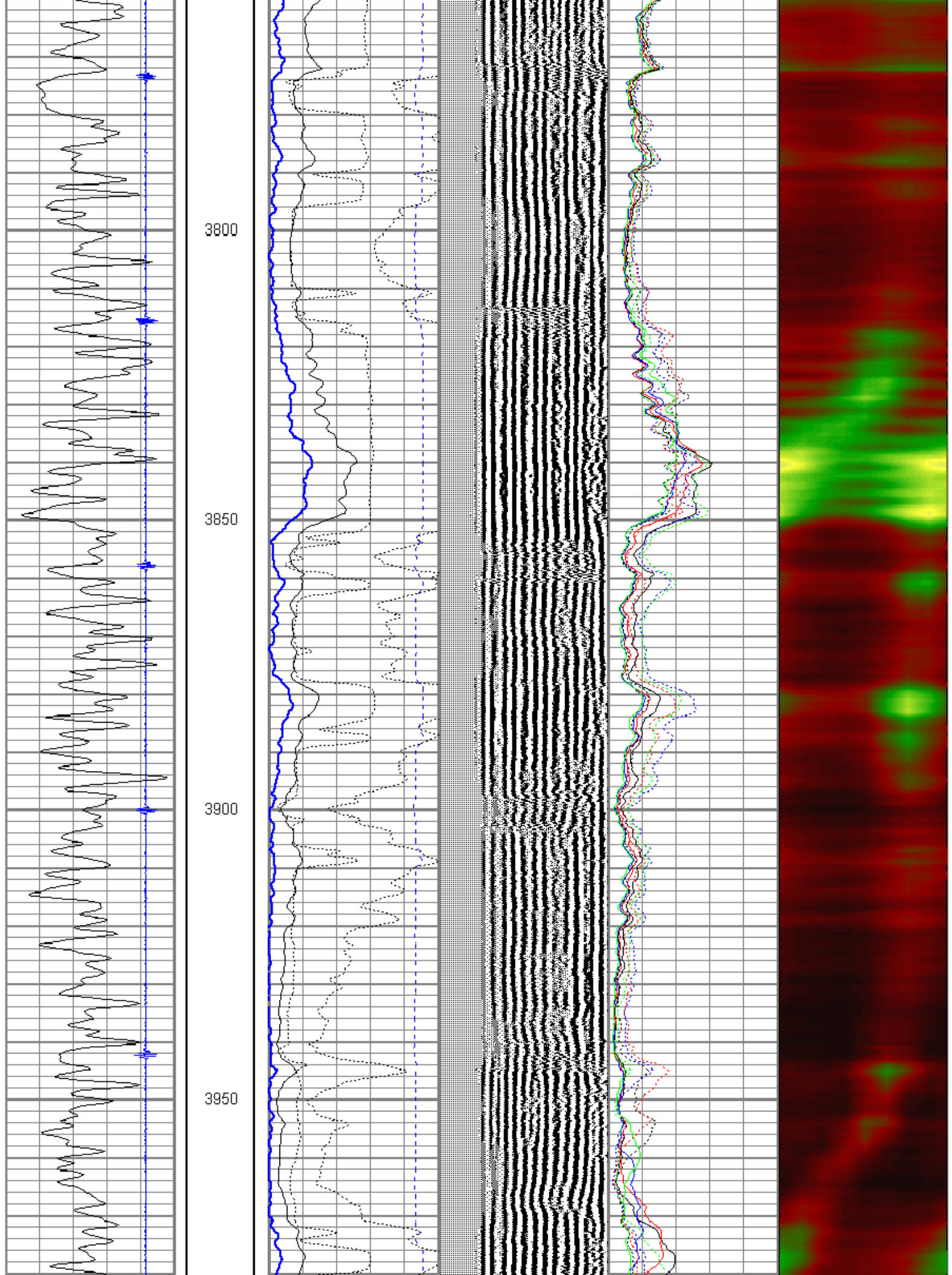


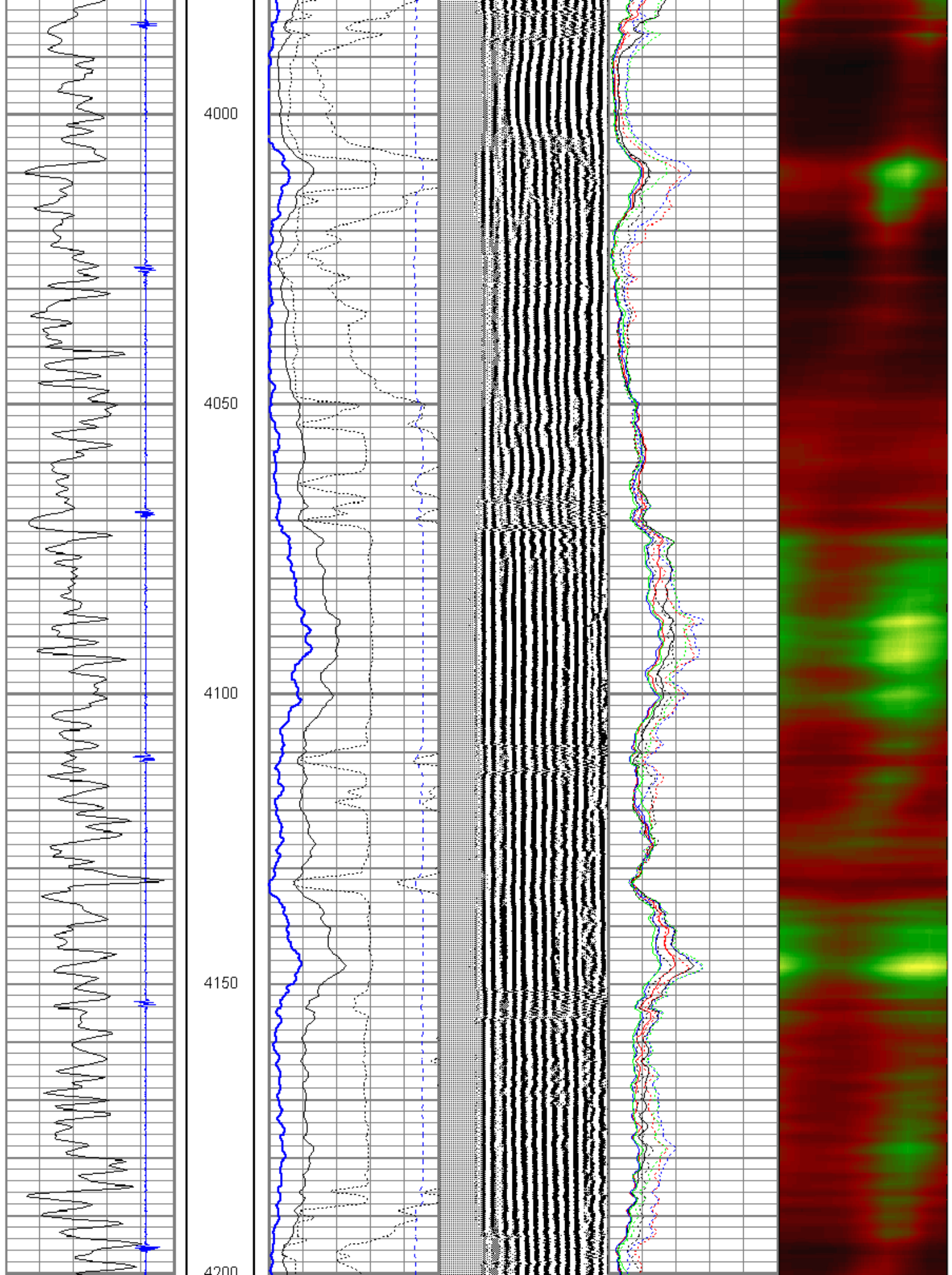


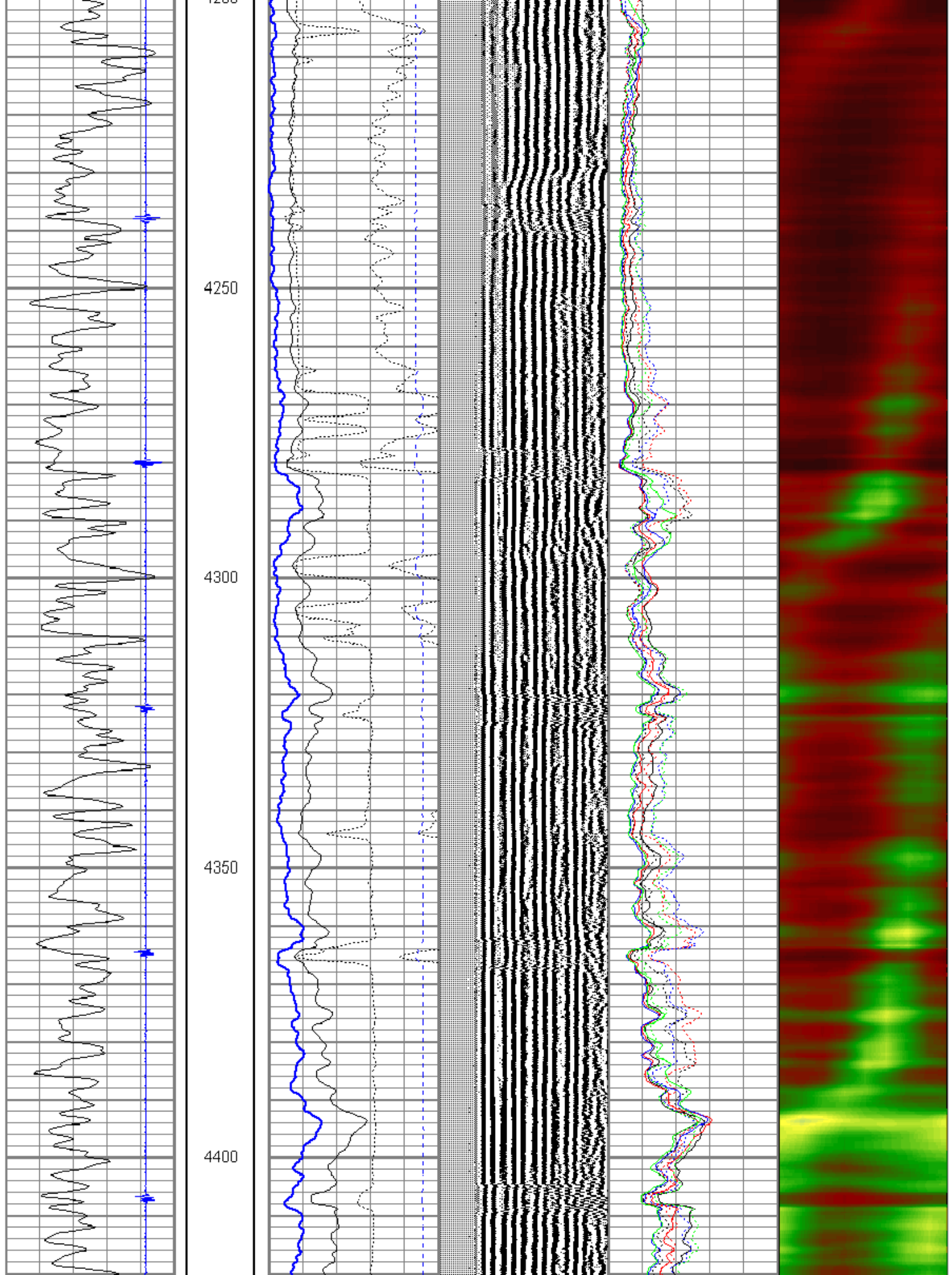


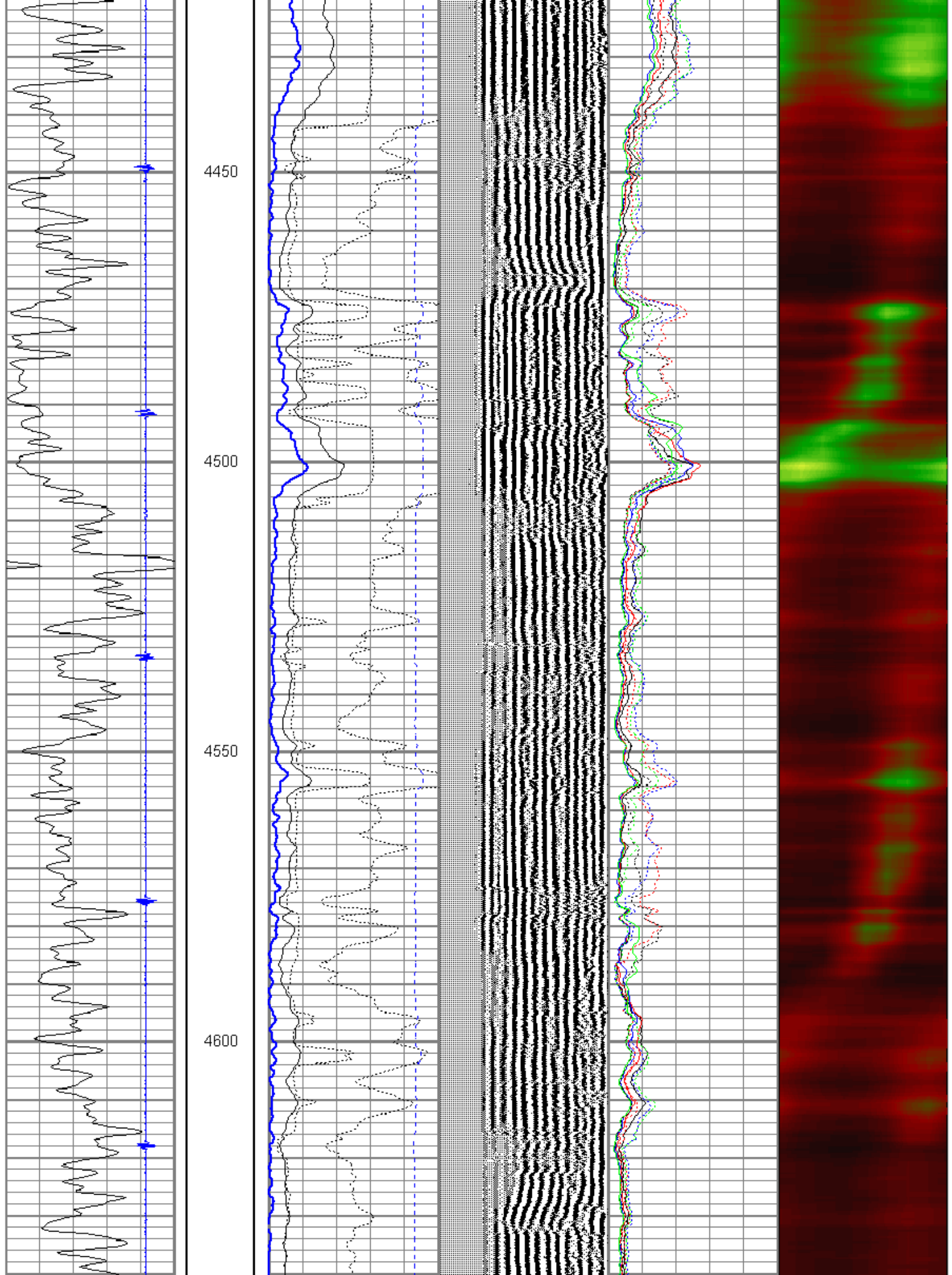


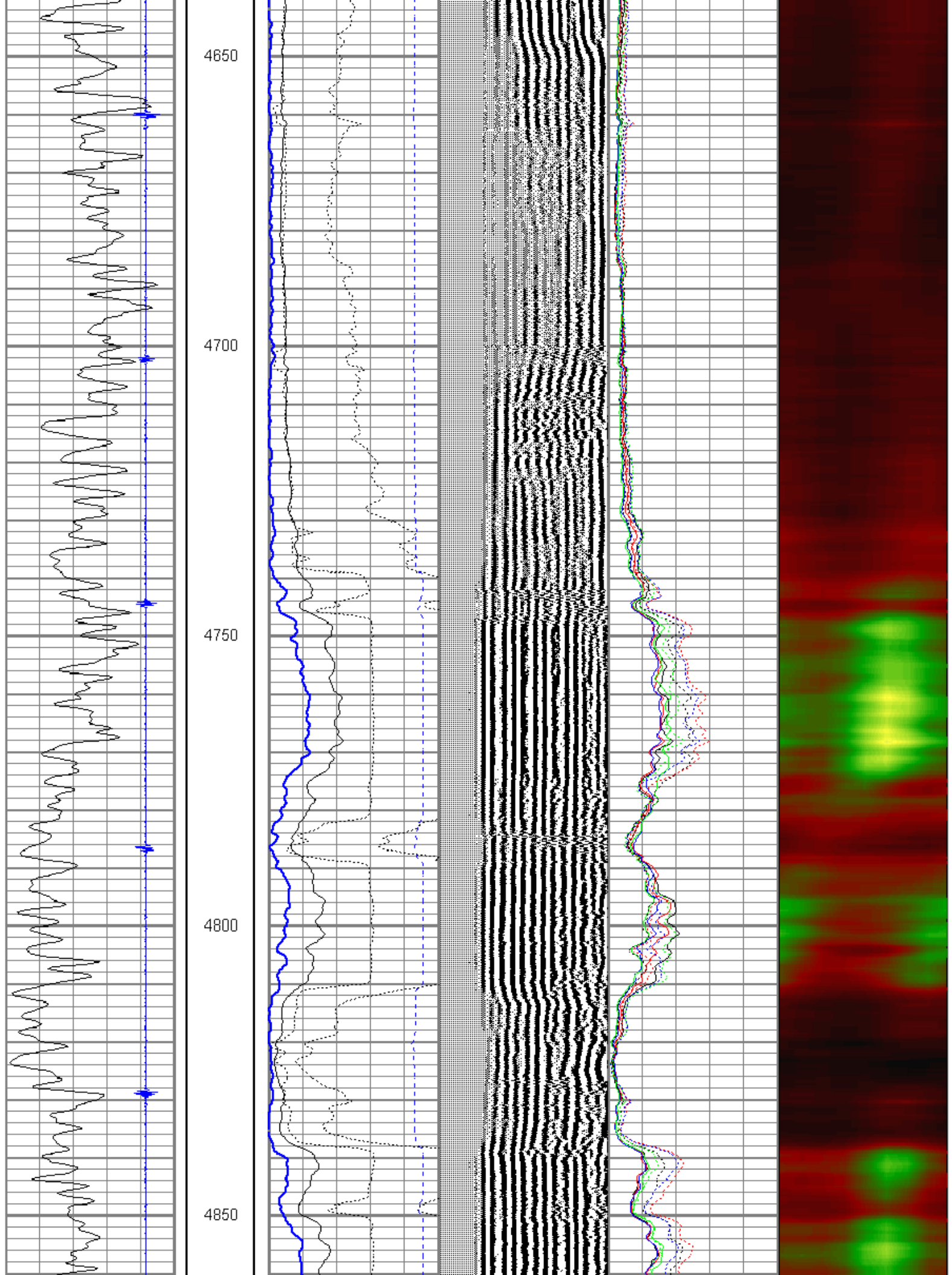


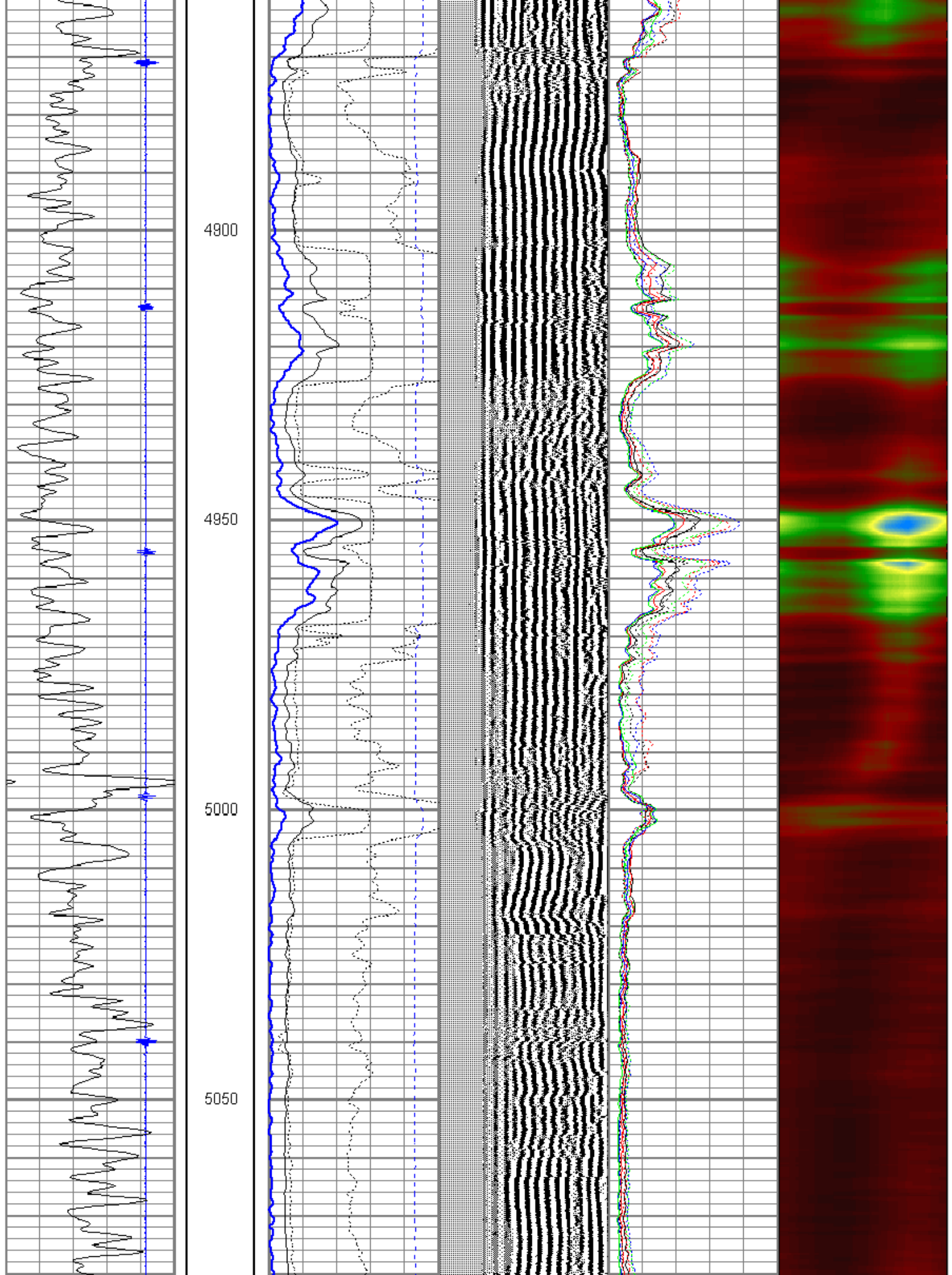


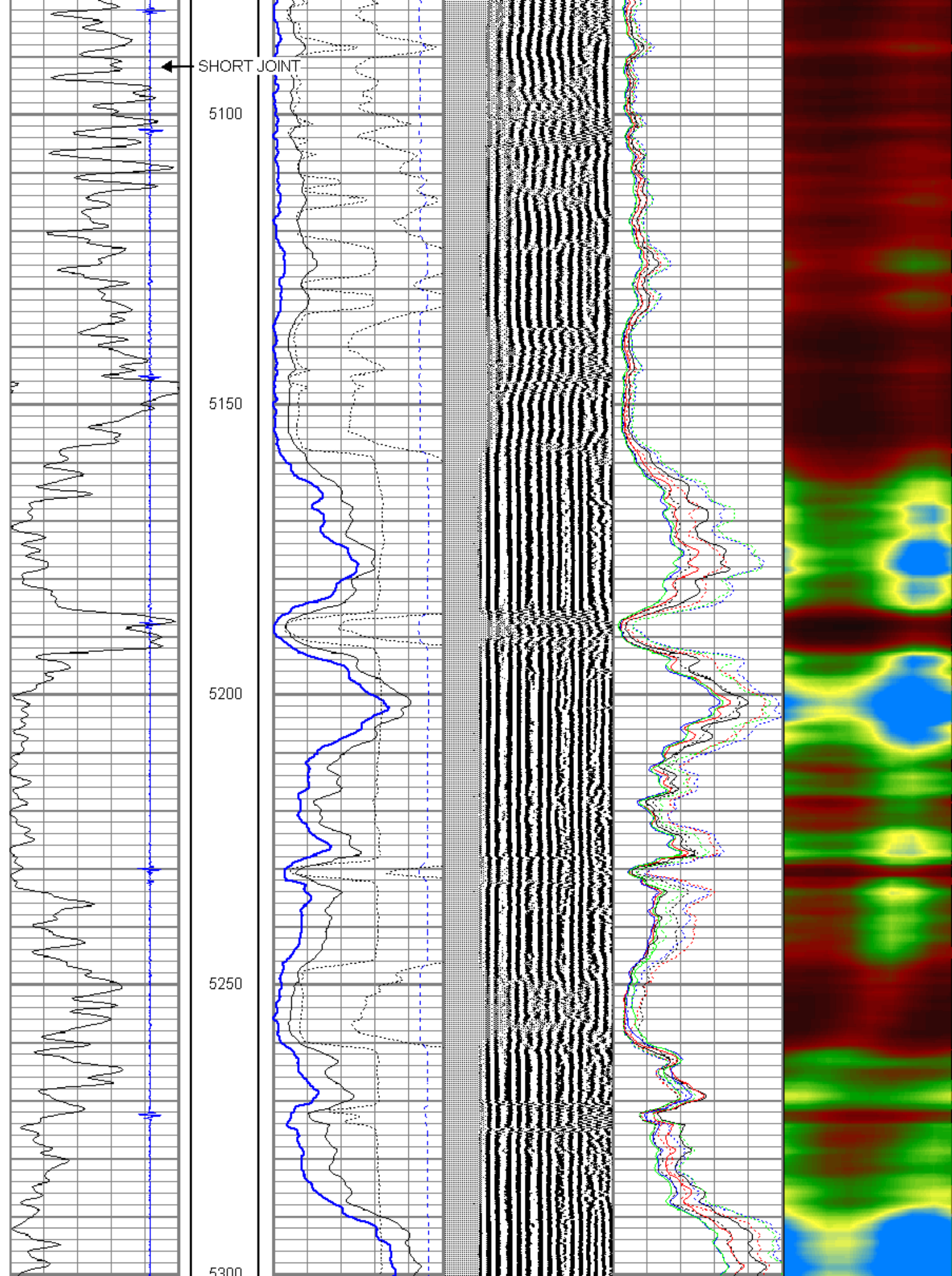


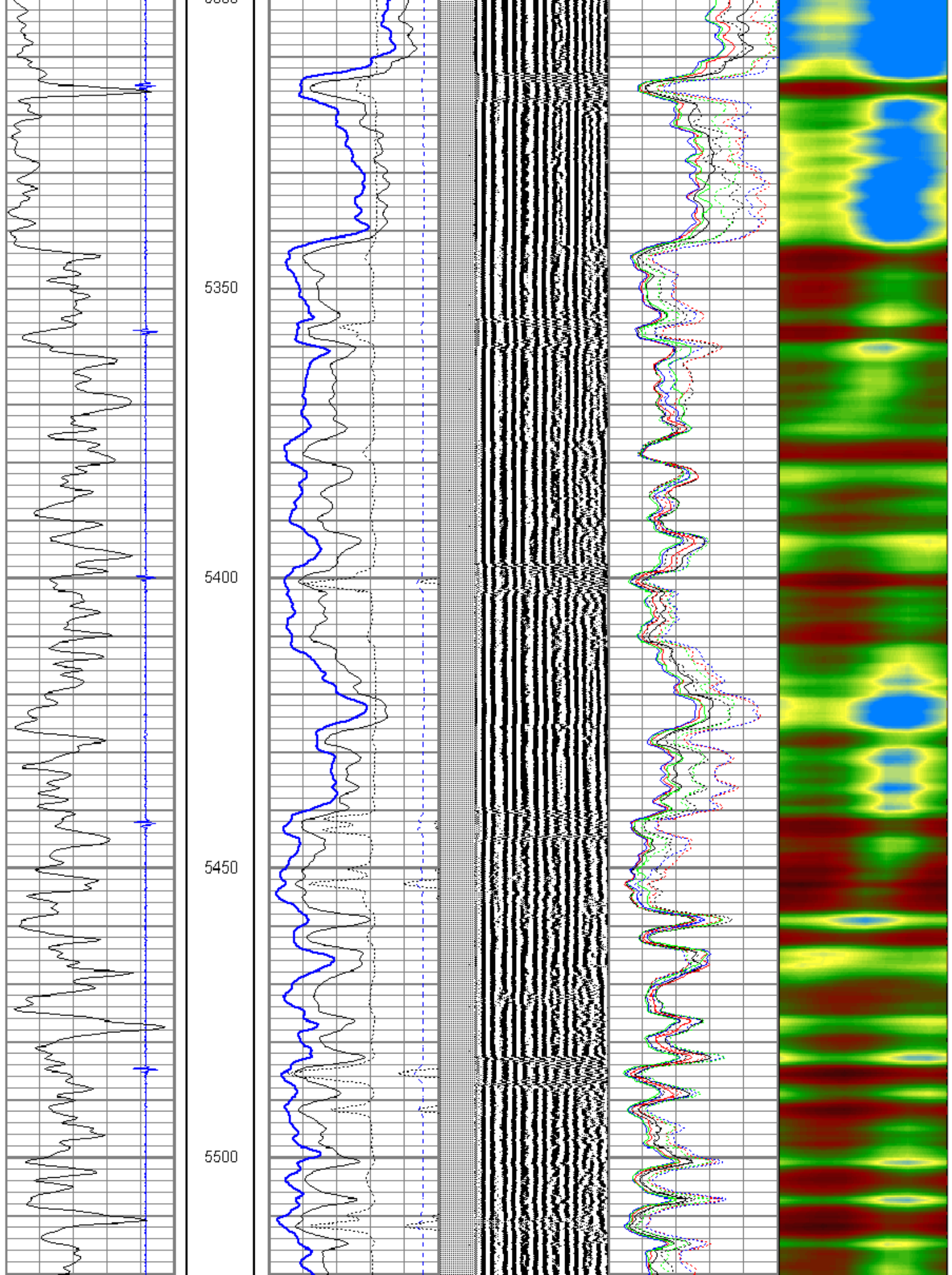


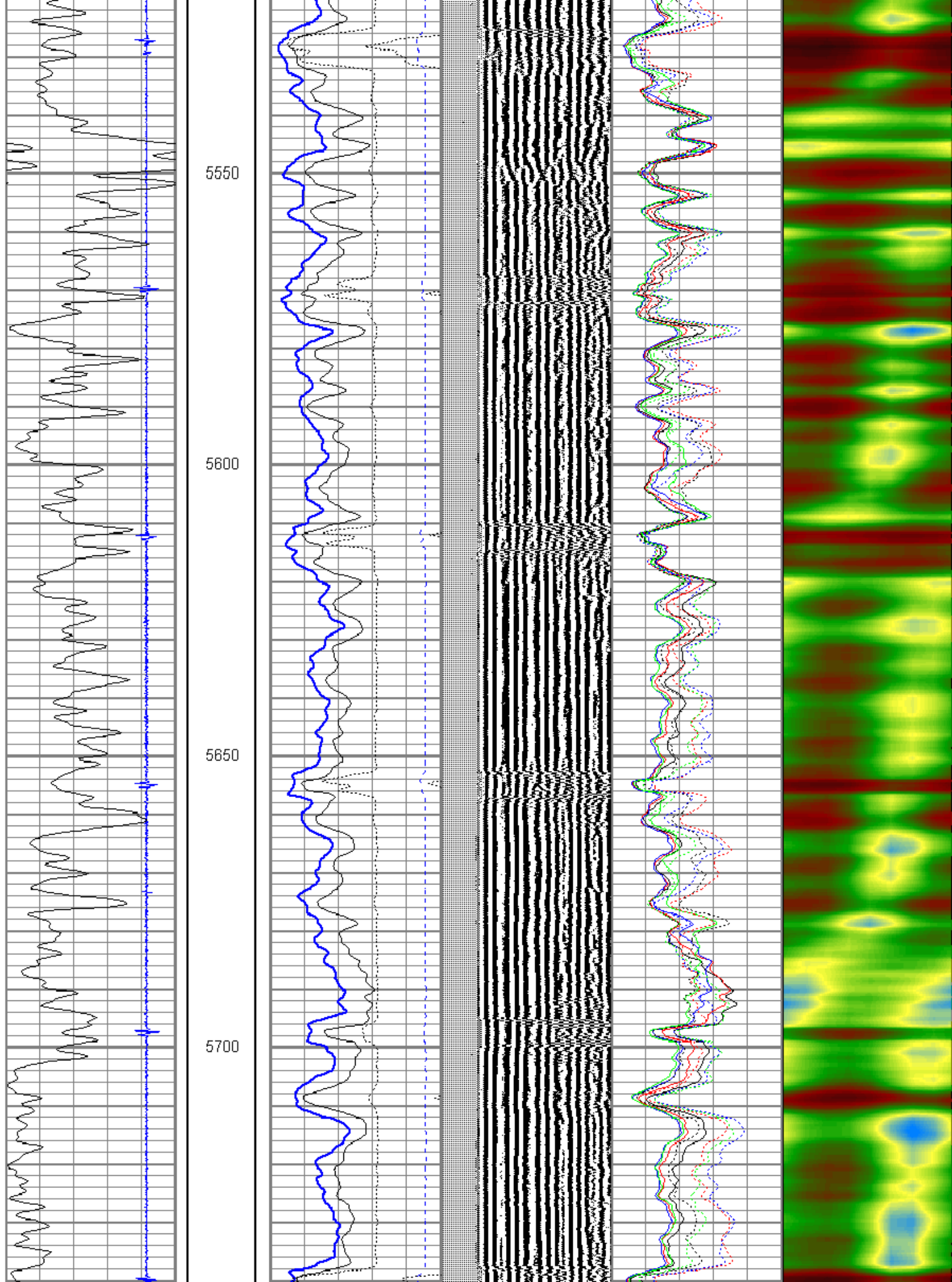


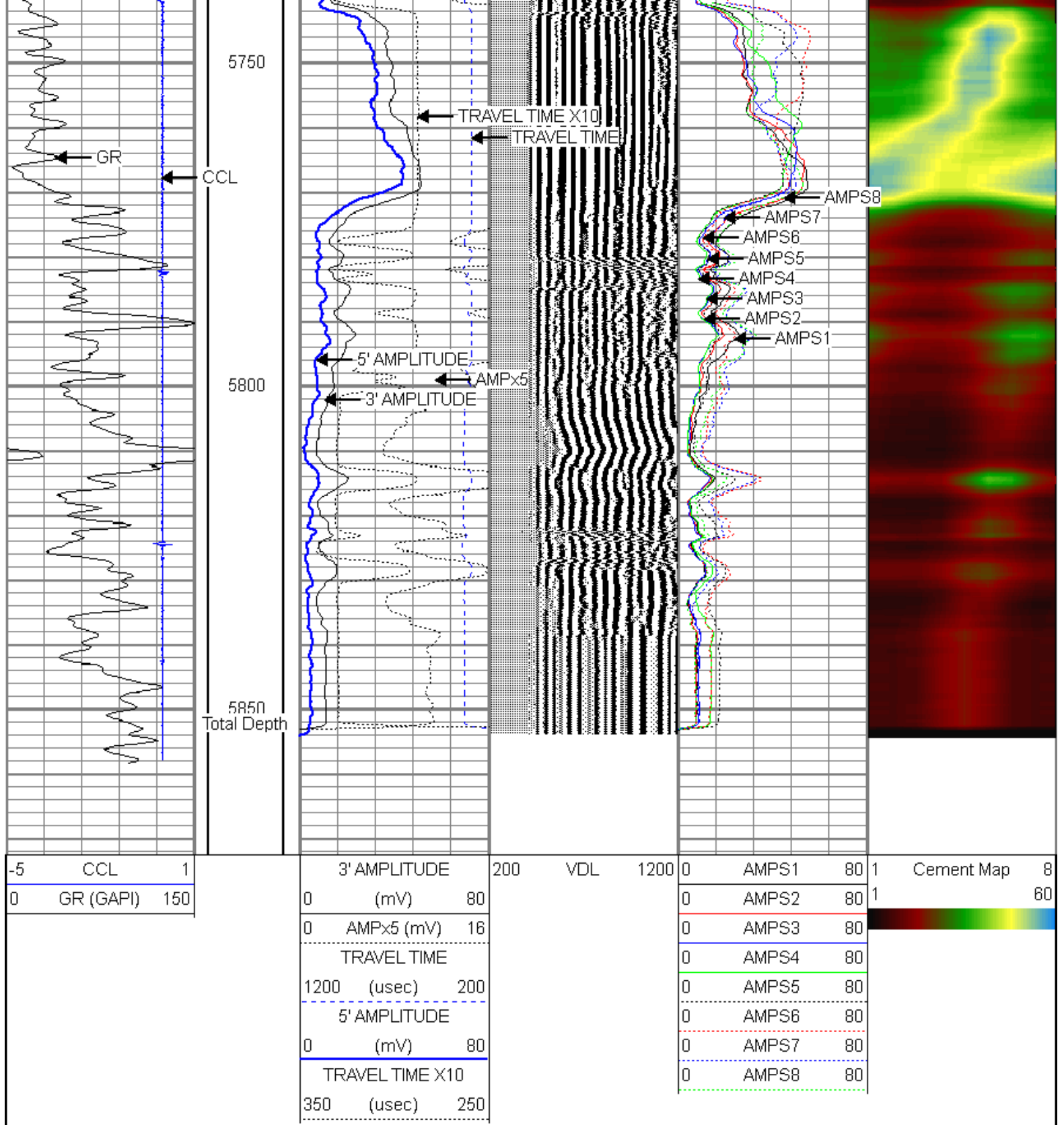












### Calibration Report

Database File: tabularasacaddell2cbl.db  
 Dataset Pathname: pass3  
 Dataset Creation: Wed Jan 15 14:13:22 2014

### Gamma Ray Calibration Report

Serial Number: 060719  
 Tool Model: Probe  
 Performed: Fri Oct 25 09:33:36 2013

Calibrator Value: 360.0 GAPI

Background Reading:	10.8	cps
Calibrator Reading:	56.1	cps
Sensitivity:	5.0000	GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number:	060632
Tool Model:	Probe
Calibration Casing Diameter:	5.500 in
Calibration Depth:	0.000 ft

Master Calibration, performed Mon Jan 06 11:09:35 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.018	0.314	0.650	91.000	305.720	-4.970
CAL	0.317	0.316				
5'	0.020	0.313	0.650	91.000	308.099	-5.503
SUM						
S1	0.017	0.308	0.000	91.000	313.066	-5.343
S2	0.017	0.319	0.000	91.000	301.811	-5.232
S3	0.018	0.337	0.000	91.000	284.477	-4.994
S4	0.019	0.344	0.000	91.000	279.580	-5.249
S5	0.019	0.319	0.000	91.000	302.890	-5.738
S6	0.019	0.298	0.000	91.000	326.546	-6.194
S7	0.019	0.295	0.000	91.000	329.287	-6.142
S8	0.019	0.304	0.000	91.000	319.424	-6.024

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.317	0.316	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000