



RCBL  
GAMMA RAY / CCL

Company HIGHPOINT RESOURCES  
Well GRINDE 01-64-05-6457 CB  
Field WATTENBERG  
County WELD  
State COLORADO

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Well GRINDE 01-64-05-6457 CB  
Field WATTENBERG  
County WELD State COLORADO

Location: API #: 05-123-49720-00  
SHL: 1550' FSL 365' FWL  
NWSW  
Permanent Datum GL Elevation 5030'  
Log Measured From GL  
Drilling Measured From KB 16.5'  
Other Services  
NONE  
Elevation  
K.B. 5046.5'  
D.F. 5046.5'  
G.L. 5030'

Date 12 AUG. 2020

Run Number	1
Depth Driller	17386.6'
Depth Logger	7353'
Bottom Logged Interval	7353'
Top Log Interval	SERFACE
Open Hole Size	8.75"
Type Fluid	H2O
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	SEE LOG
Time Well Ready	0730
Time Logger on Bottom	0750
Equipment Number	216
Location	GREELEY, CO.
Recorded By	S. STUMP
Witnessed By	R. BEHRENDT

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.5/8"	36#	0"	1259'
Prod. String	7"	23#	0"	7693'
Production String	4.5"	13.5#	0"	7792.2'
Liner	4.5"	11.6#	7792.2'	17386.6'

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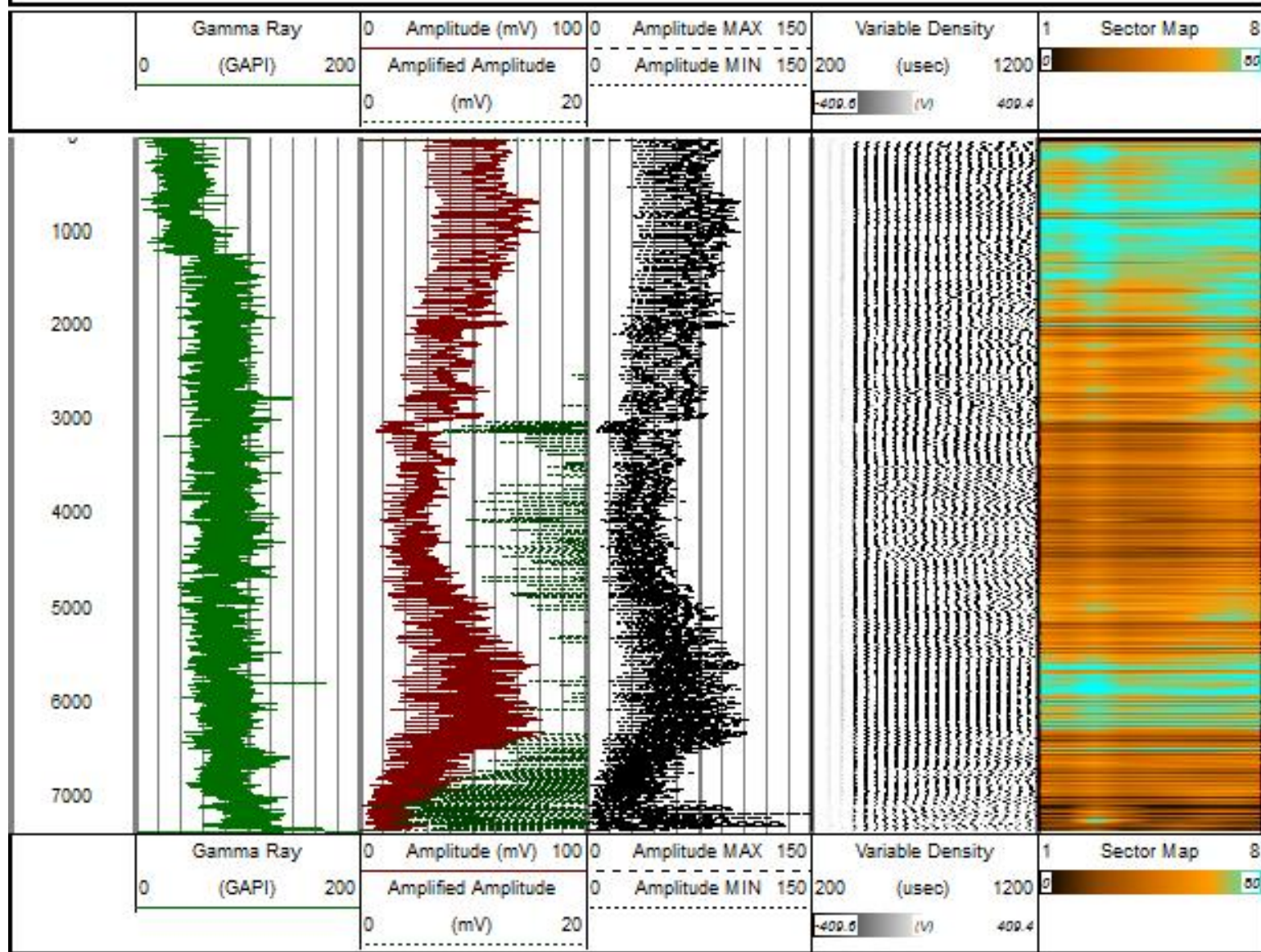
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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



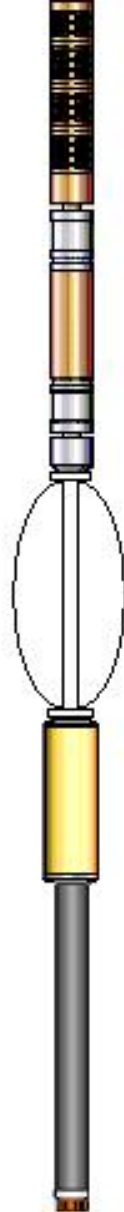
# QUICK LOOK

Database File 90671\_highpoint\_grinde\_robl.db  
 Dataset Pathname QUICK\_LOOK  
 Presentation Format rbl\_1inch\_2020  
 Dataset Creation Sun Jan 12 09:13:34 2020  
 Charted by Depth in Feet scaled 1:20000



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STNDRD Standard Cable Head	1.00	1.44	1.00
			CENT-tekoo	2.73	2.75	50.00



WVFS8	12.56		RBT-Probe (DD3_9_5_8) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFS7	12.56					
WVFS6	12.56					
WVFS5	12.56					
WVFS4	12.56					
WVFS3	12.56					
WVFS2	12.56					
WVFS1	12.56					
WVFCAL	12.56					
WVF3FT	12.56					
WVF5FT	11.48					
		CENT-tekoo		2.73	2.75	50.00
CCL	4.33	CCL-tekoo (D3) 3.125 logging ccl		1.83	3.13	20.00
		GR-probe 2.75 (DA2)		3.67	2.75	100.00
GR	1.13					
Dataset: 90671_highpoint_grinde_rcbl.db: field/well/run1/MAIN.1 Total length: 20.88 ft Total weight: 311.00 lb O.D.: 3.13 in						

Calibration Report		
Database File	90671_highpoint_grinde_rcbl.db	
Dataset Pathname	MAIN.1	
Dataset Creation	Sun Jan 12 09:10:52 2020	
Gamma Ray Calibration Report		
Serial Number:	DA2	
Tool Model:	probe 2.75	
Performed:	Thu Jan 08 13:40:14 2015	
Calibrator Value:	200.0	GAPI
Background Reading:	39.6	cps
Calibrator Reading:	259.2	cps
Sensitivity:	0.9108	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	DD3_9_5_8	

Tool Model: Probe  
 Calibration Casing Diameter: 4.500 in  
 Calibration Depth: 154.843 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.031	0.754	1.000	81.196	110.934	-2.406
CAL	1.017	1.016				
5'	0.022	0.663	1.000	81.196	125.015	-1.749
SUM						
S1	0.051	0.858	0.000	100.000	123.917	-6.335
S2	0.036	0.870	0.000	100.000	119.921	-4.315
S3	0.009	0.696	0.000	100.000	145.643	-1.326
S4	0.036	0.779	0.000	100.000	134.609	-4.853
S5	0.028	0.758	0.000	100.000	137.045	-3.822
S6	0.033	0.779	0.000	100.000	134.002	-4.427
S7	0.040	0.825	0.000	100.000	127.446	-5.131
S8	0.065	0.894	0.000	100.000	120.599	-7.662

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.017	1.016	1.000	0.000

Air Zero Calibration, performed Tue Jan 07 10:08:37 2020:

	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	



## MAIN PASS

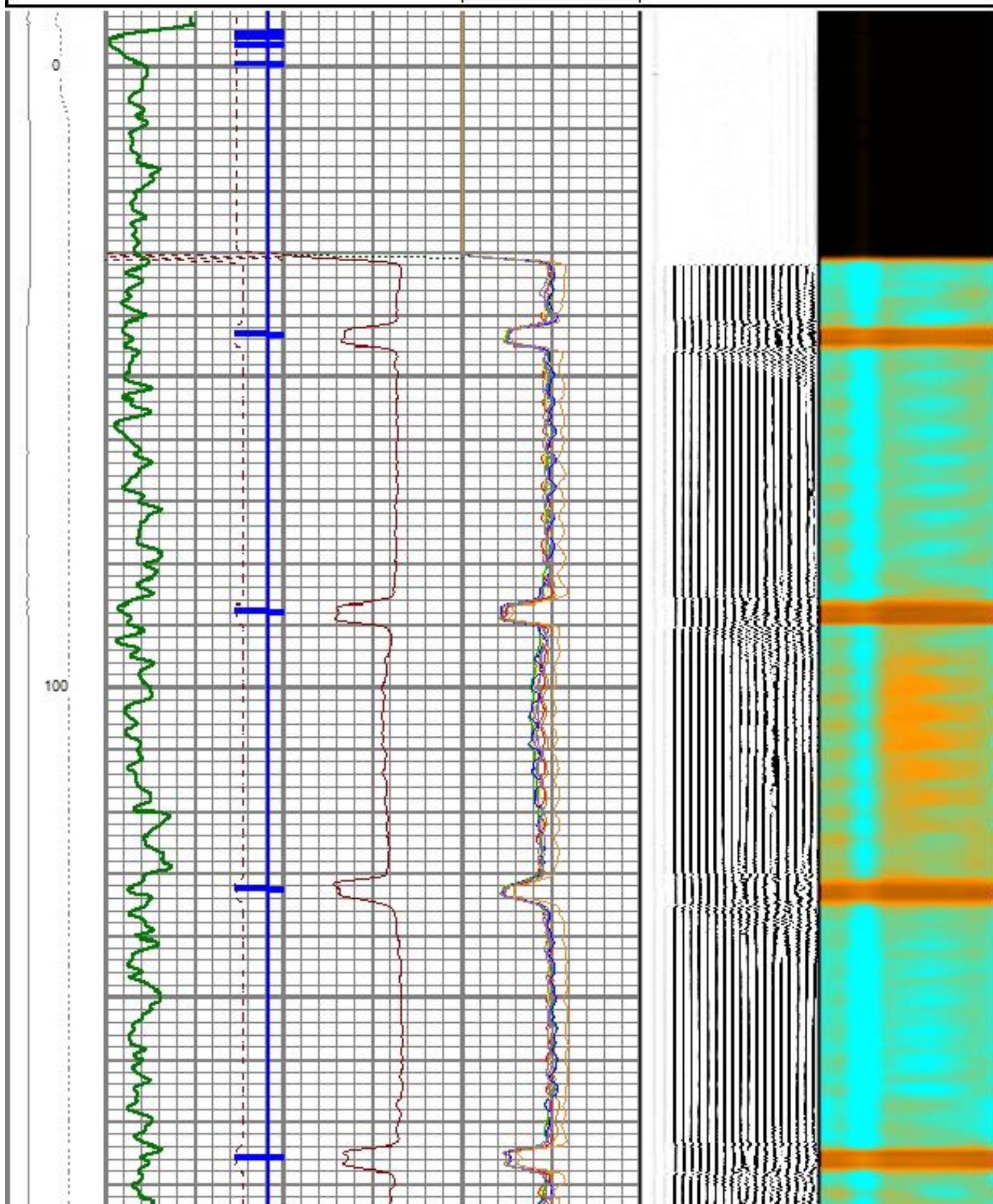
0 PSI ON WELL WHILE LOGGING

Database File 90671\_highpoint\_grinde\_robl.db  
 Dataset Pathname MAIN.1  
 Presentation Format rbl\_all\_8\_2020  
 Dataset Creation Sun Jan 12 09:10:52 2020  
 Charted by Depth in Feet scaled 1:240

LTEN	3' Travel Time	0 3' Amplitude (mV) 100	0 AMPS1 150	5' Variable Density	1 SECTORS 8
0 (lb) 1000	400 (usec) 200	3 'Amplified Amplitude	0 AMPS2 150	200 (usec) 1200	2
Casing Collar Locator		(mV) 20	0 AMPS3 150		



LSPD		Casing Collar Location		(mV)		AMT 33		409.0		409.0	
(ft/min)		Gamma Ray				0	AMPS4	150			
500	-500	(GAPI)				0	AMPS5	150			
		0				0	AMPS6	150			
						0	AMPS7	150			
						0	AMPS8	150			

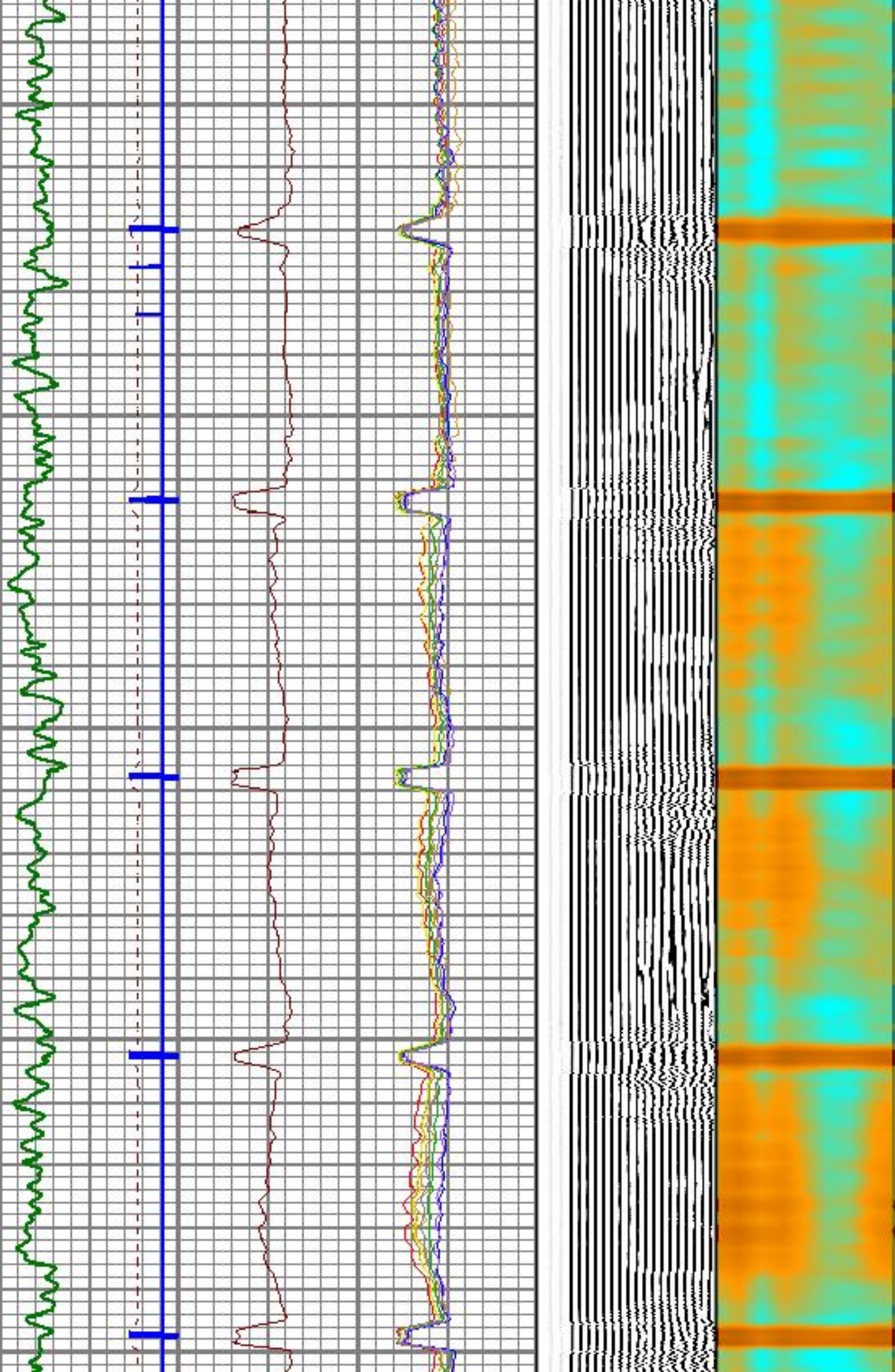




200

300

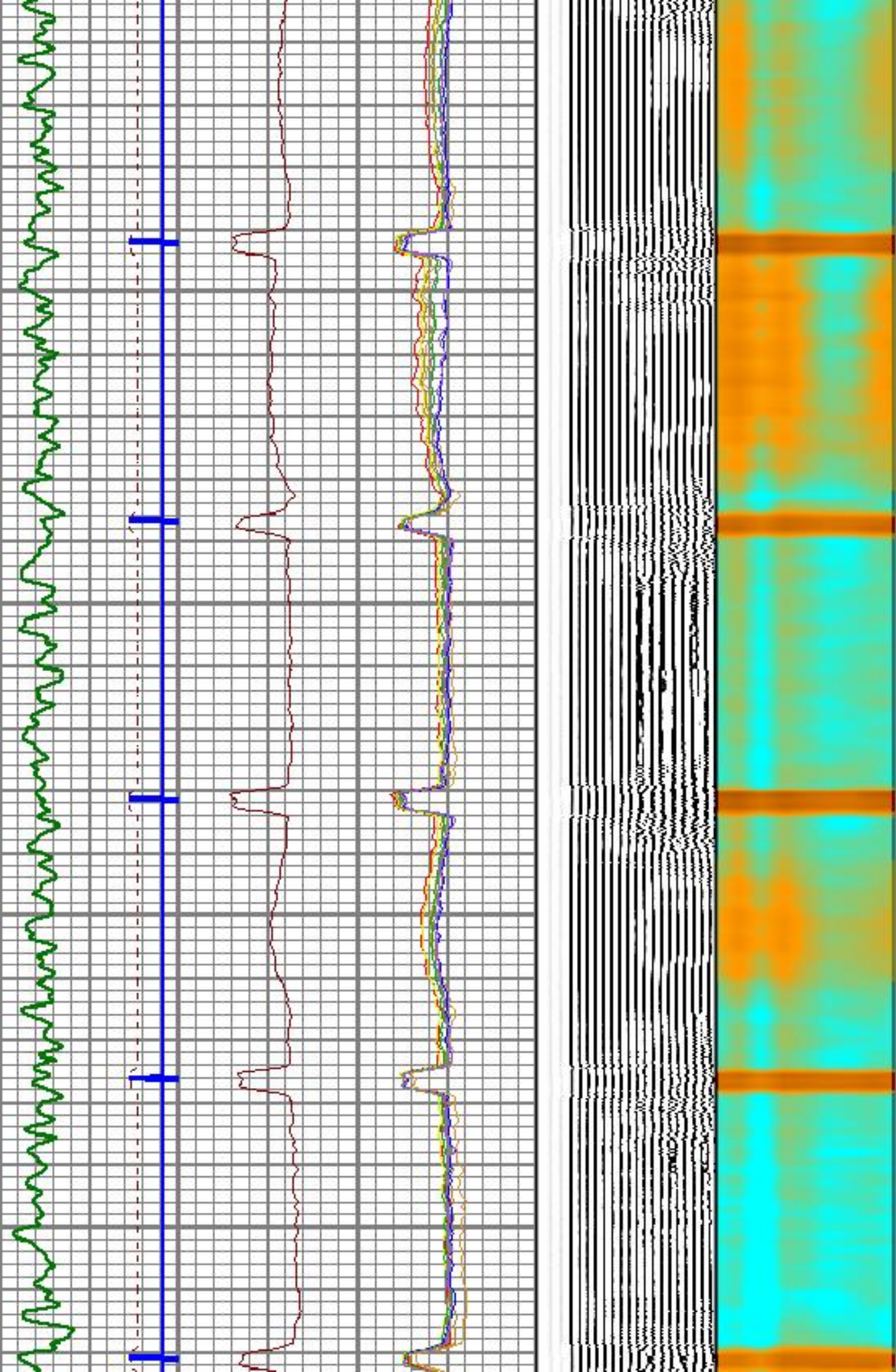
400





500

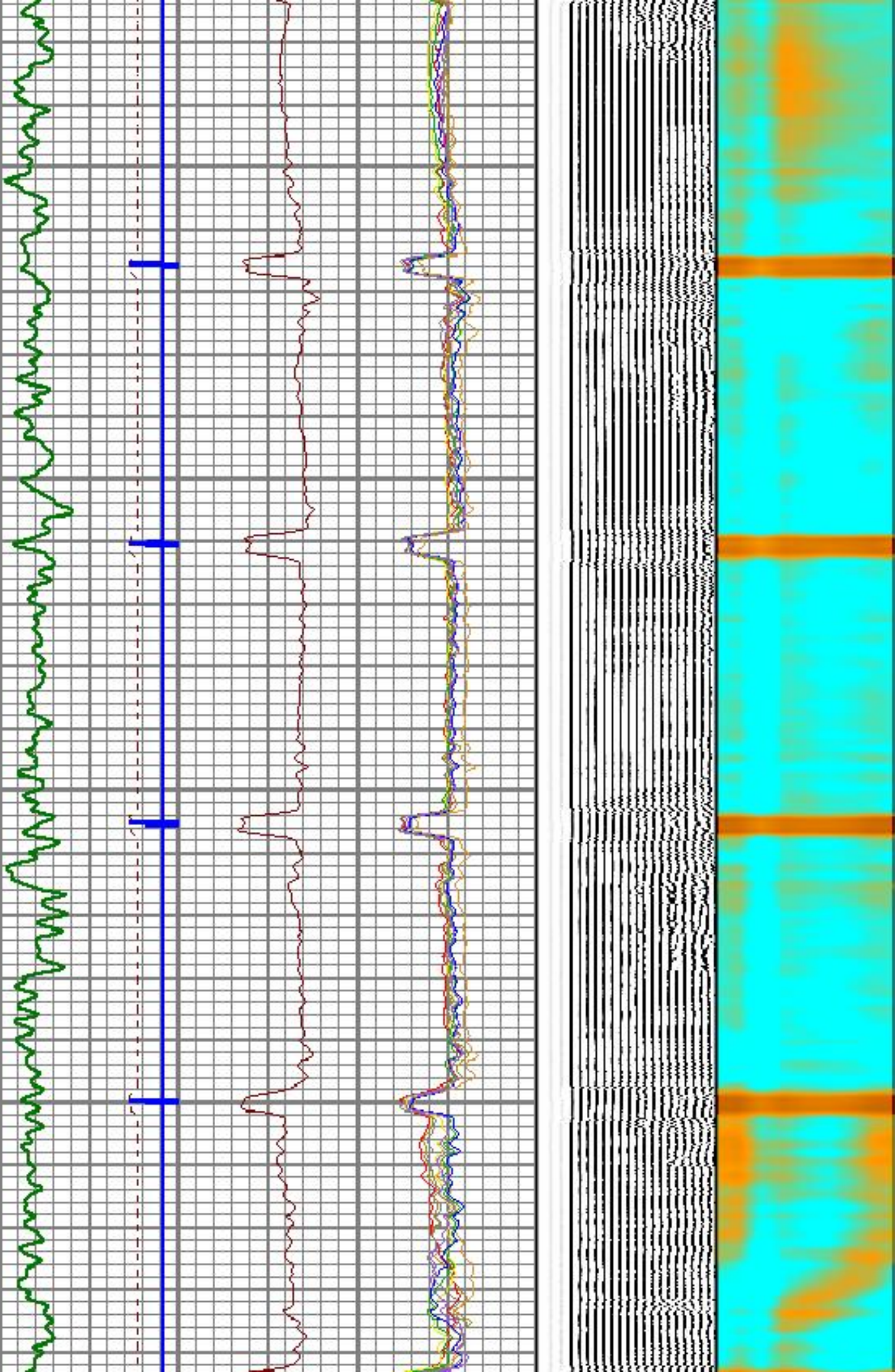
600



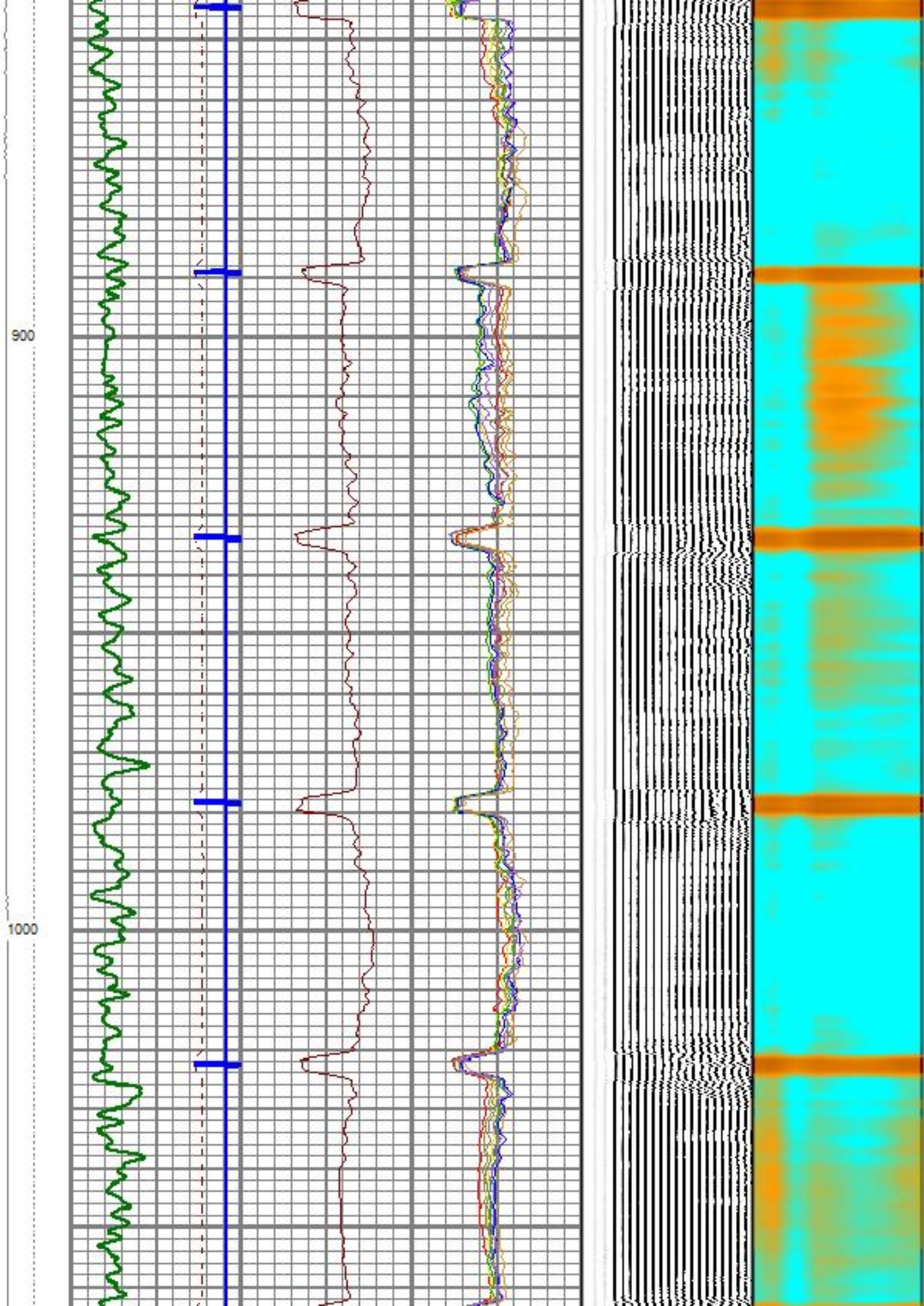


700

800



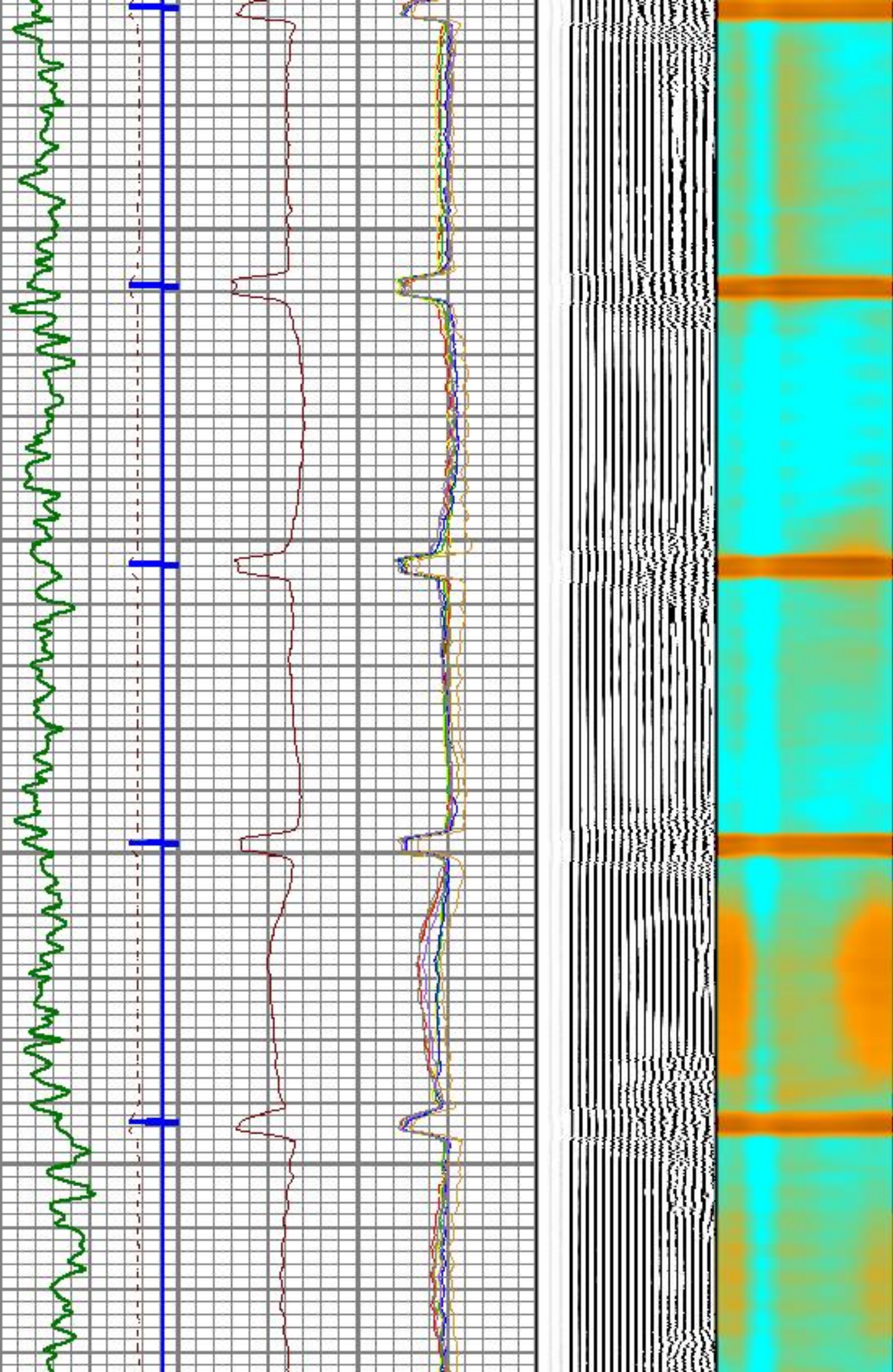






1100

1200

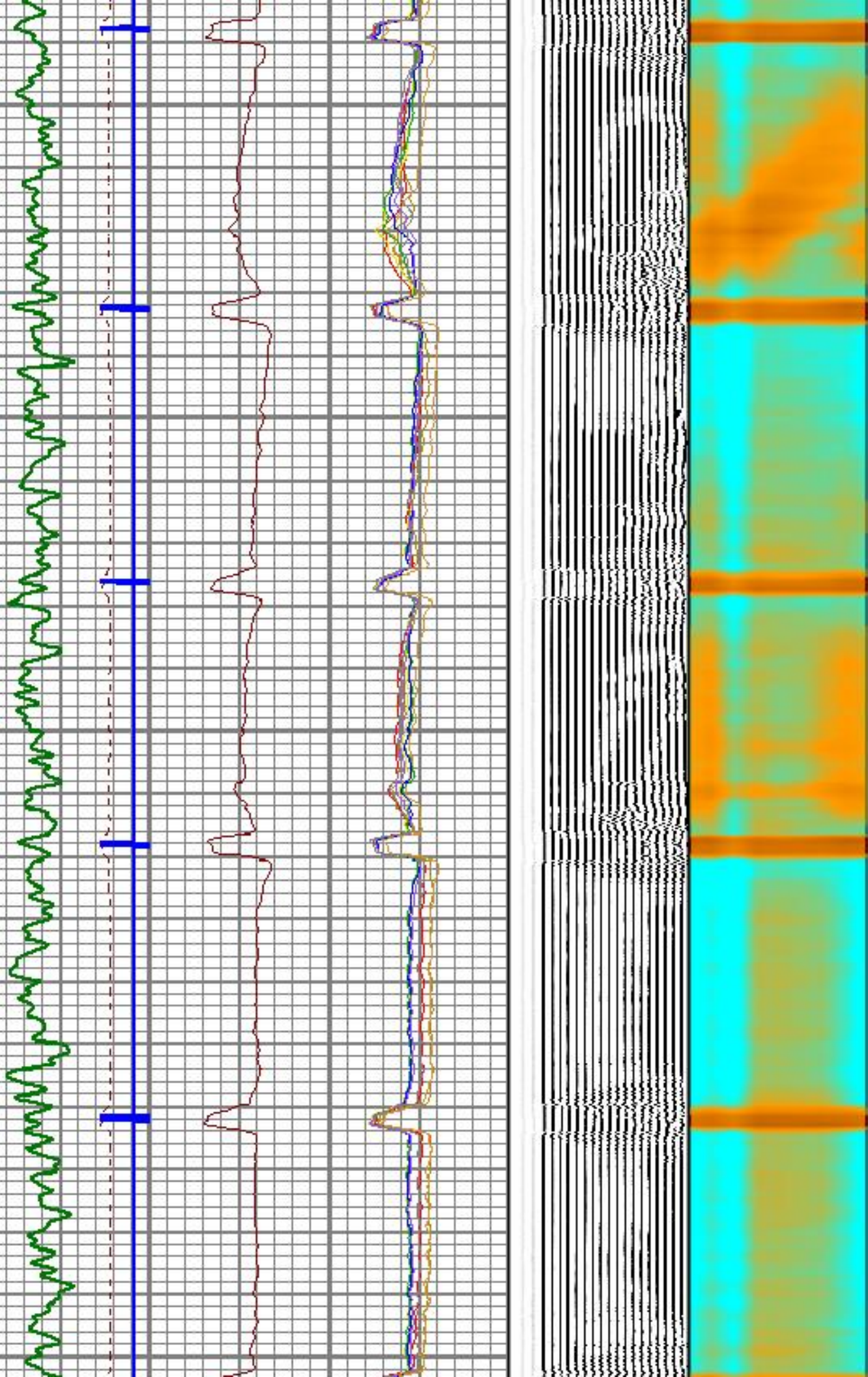




1300

1400

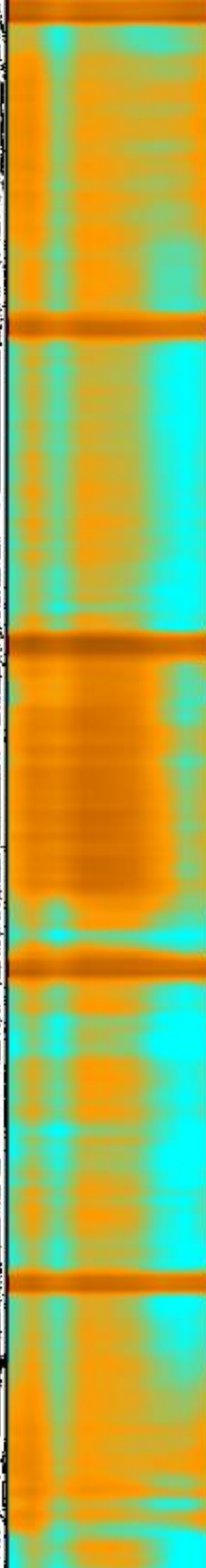
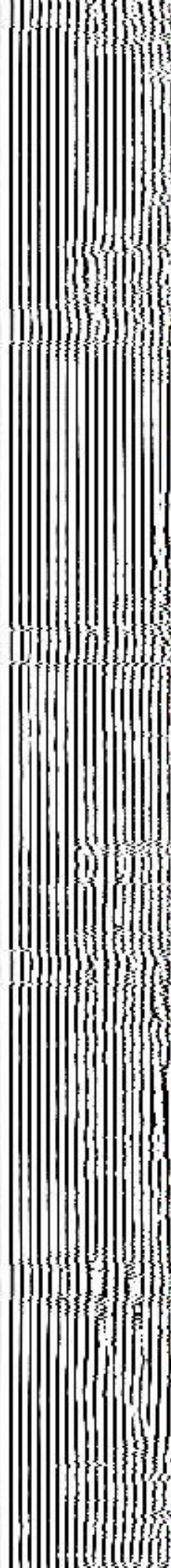
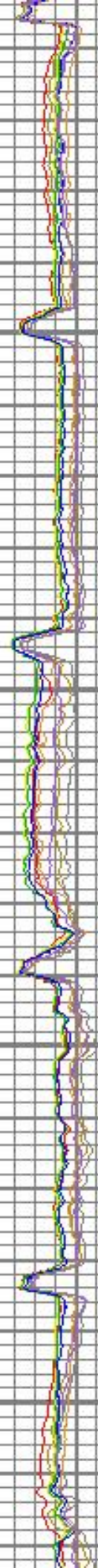
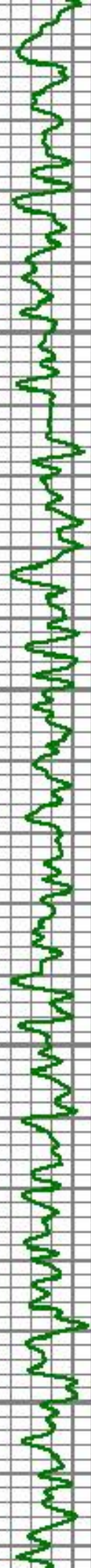
1500





1600

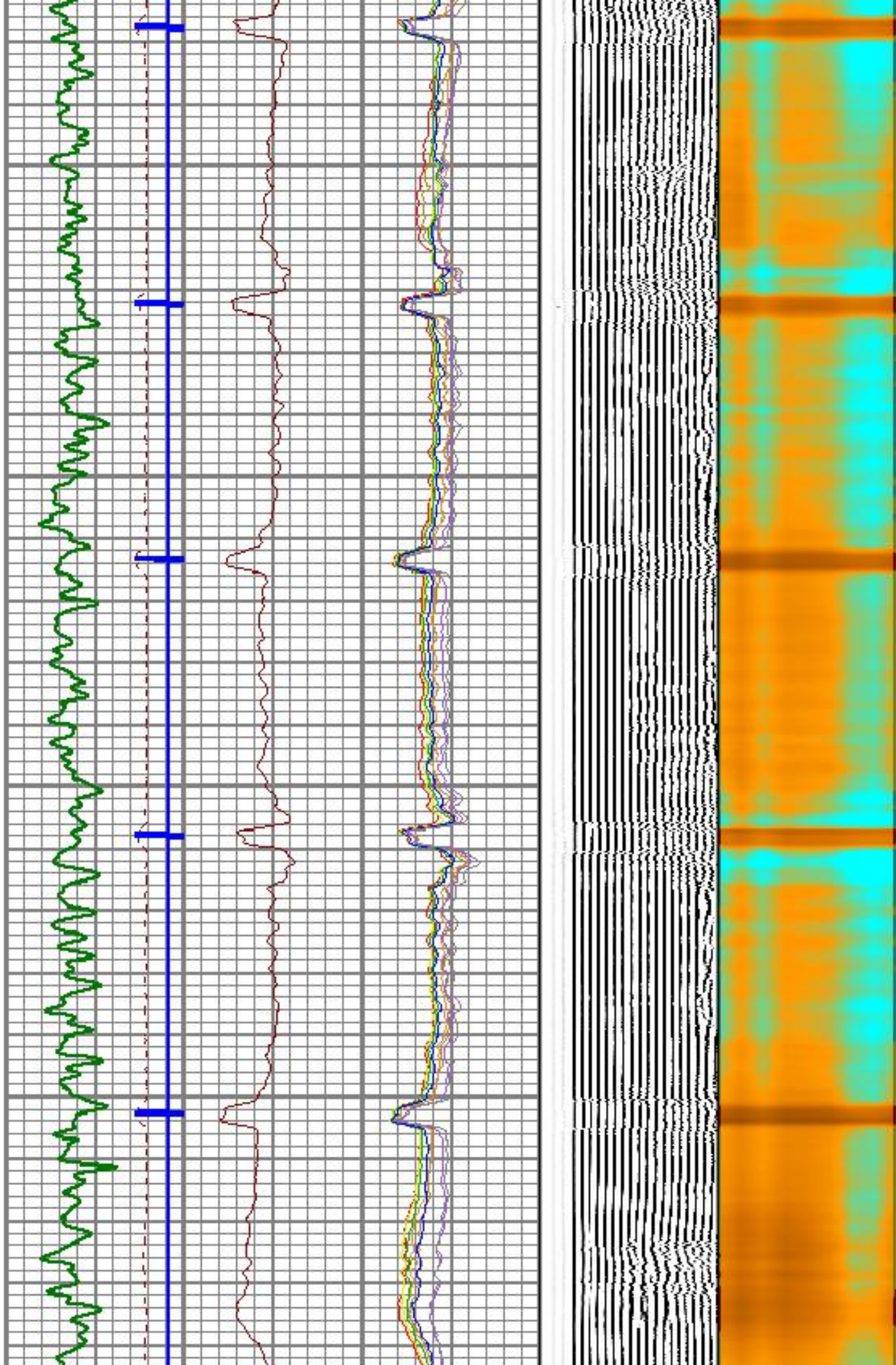
1700



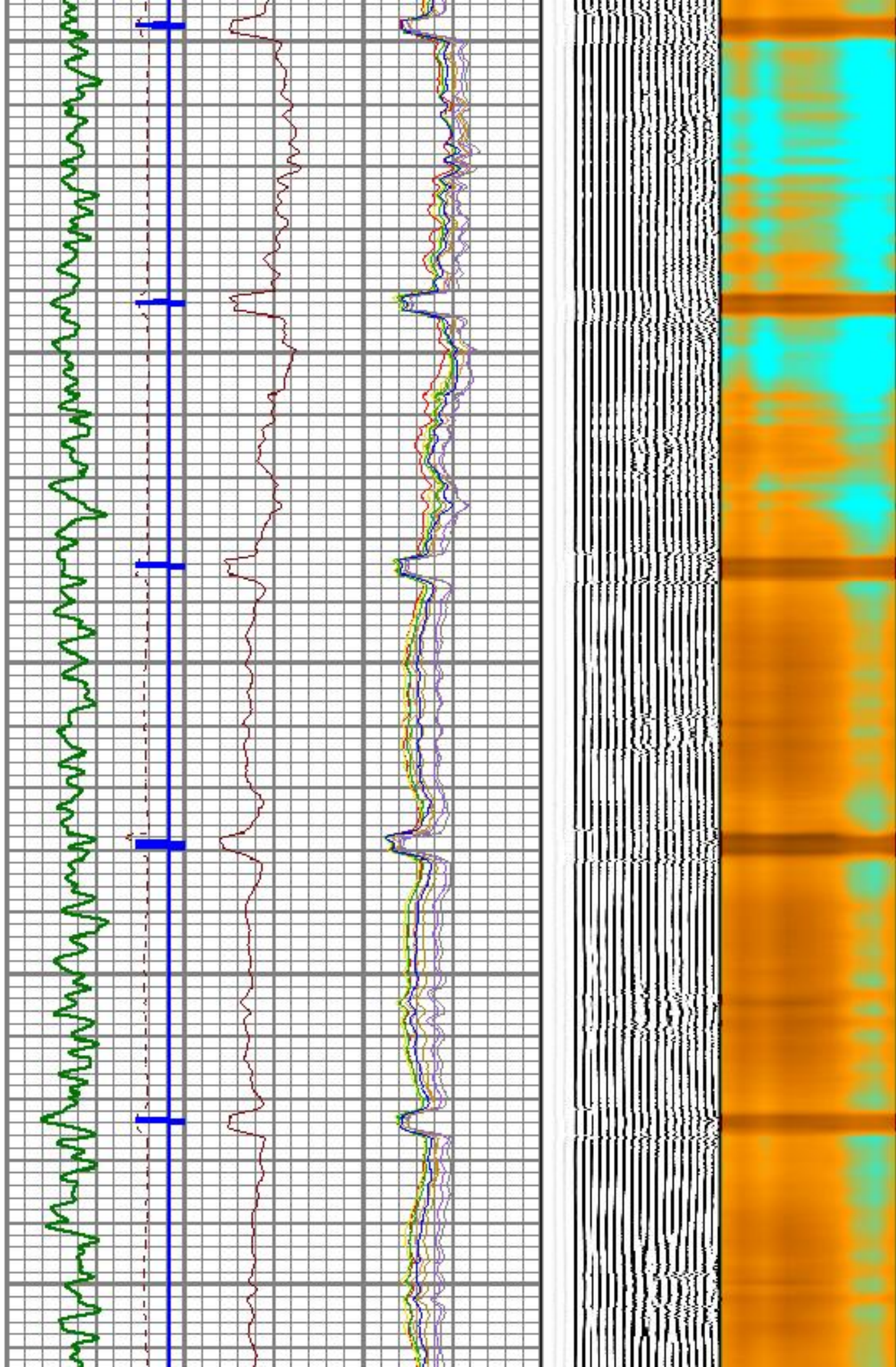


1800

1900



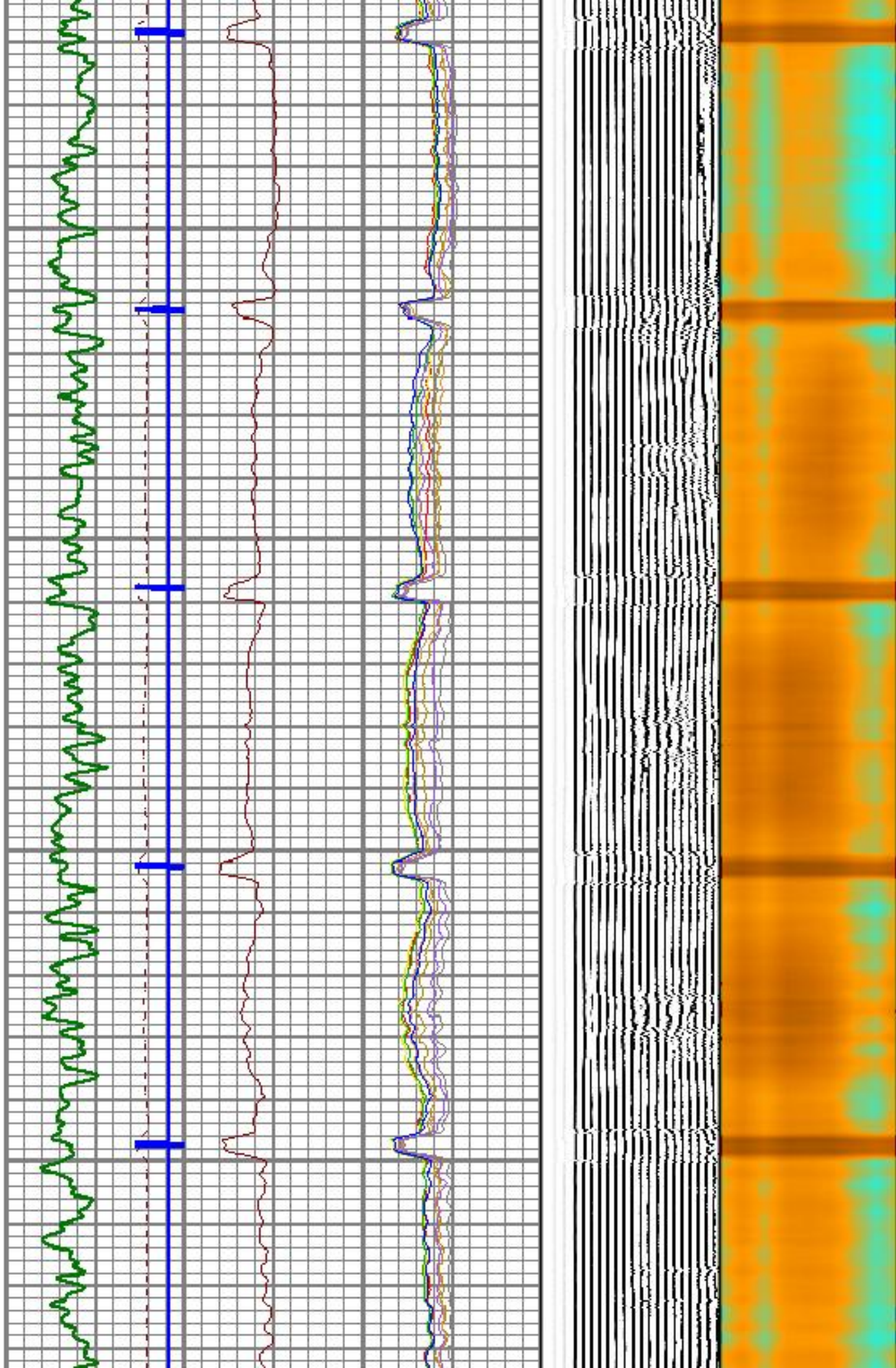






2200

2300

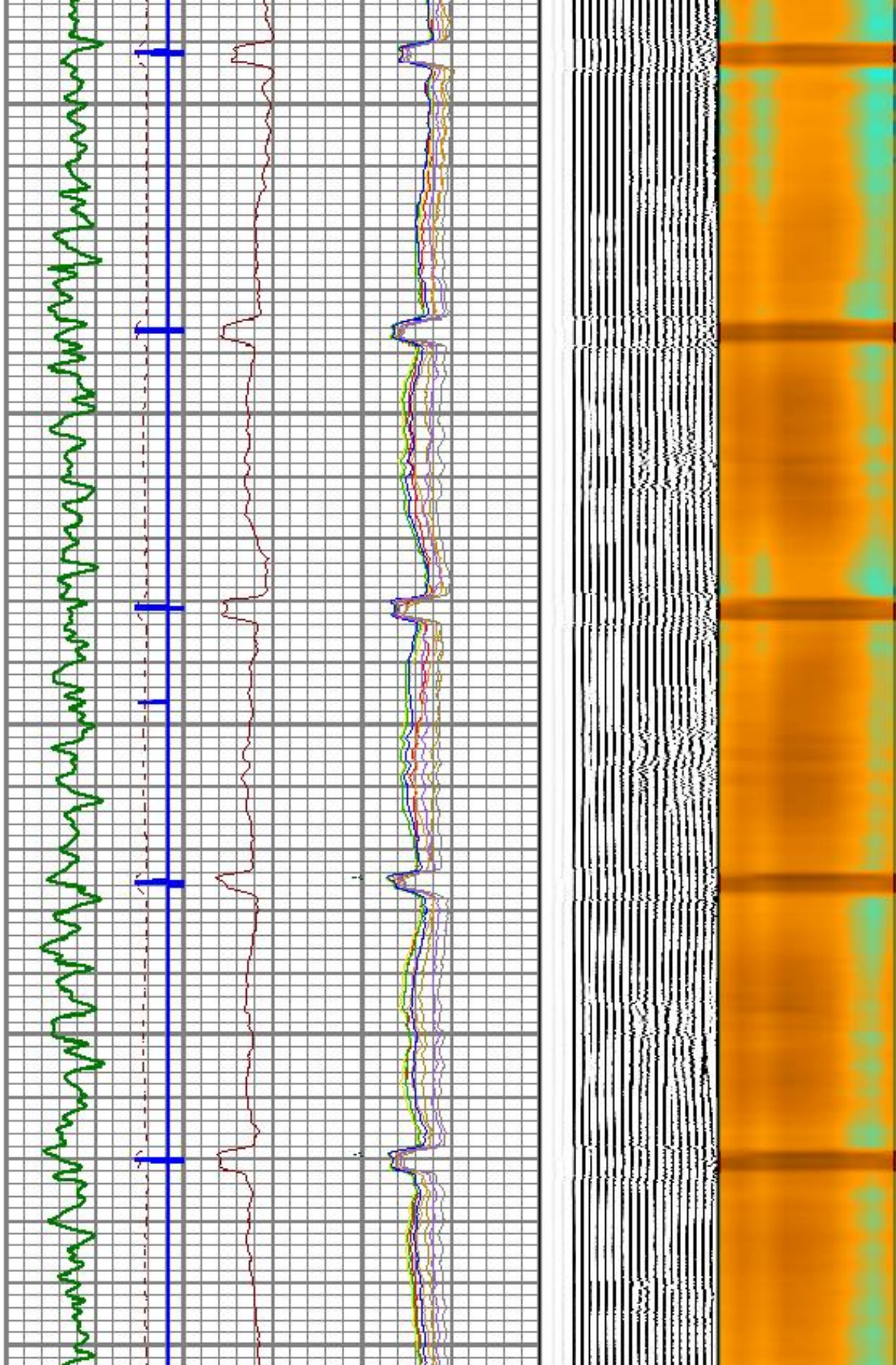




2400

2500

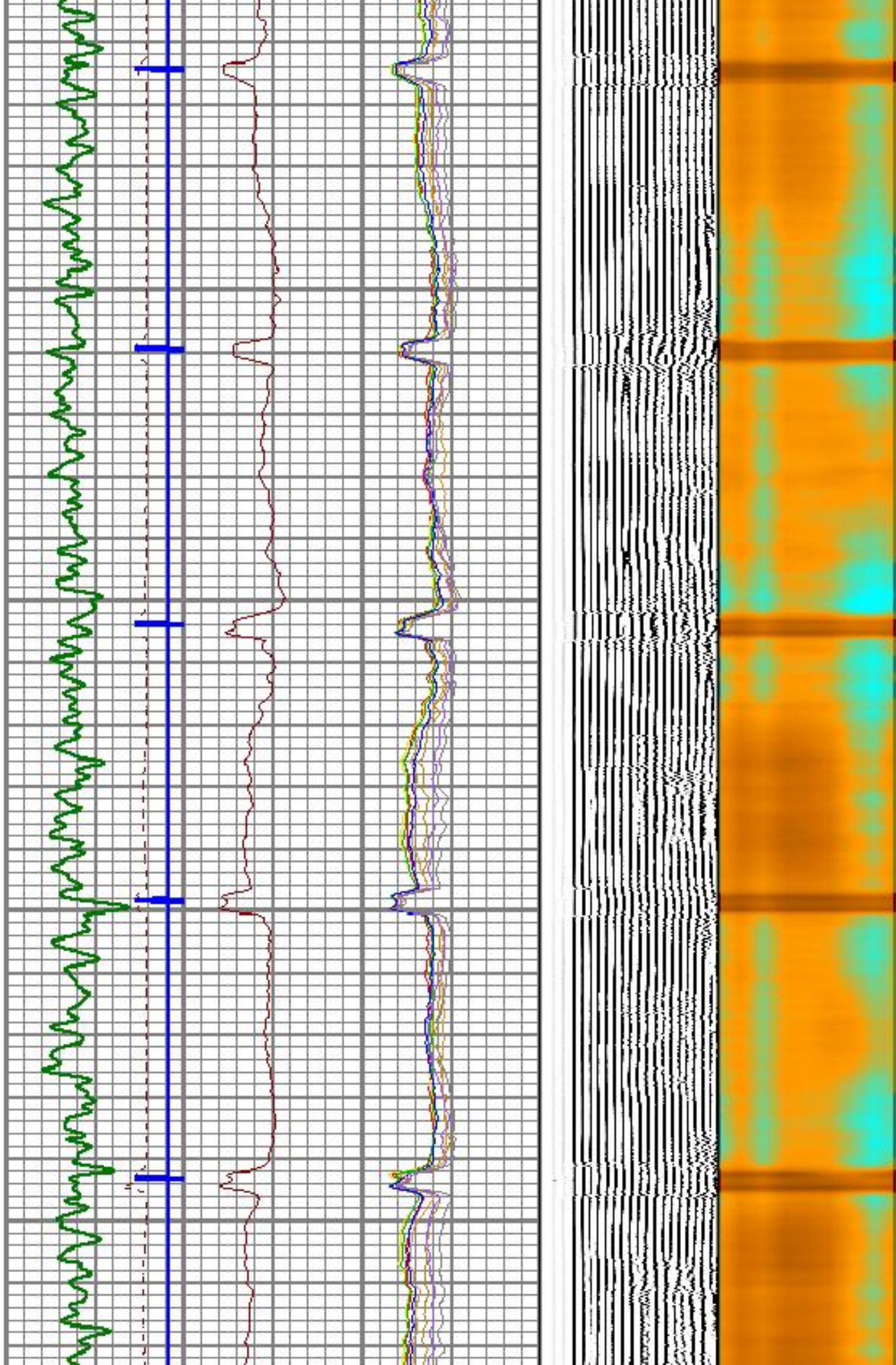
2600





2700

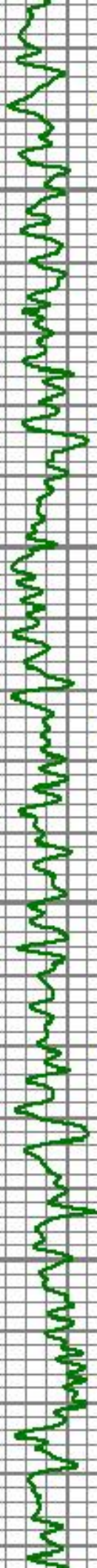
2800



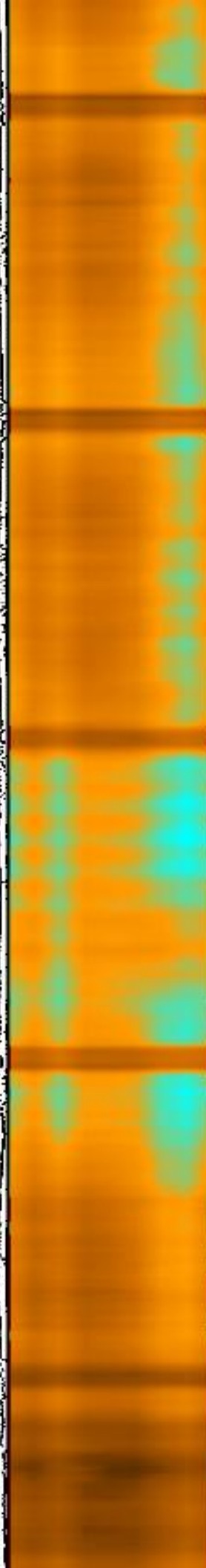
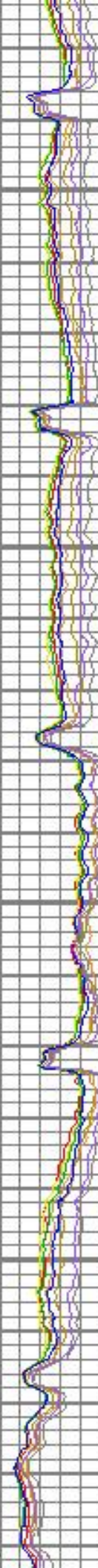


2900

3000



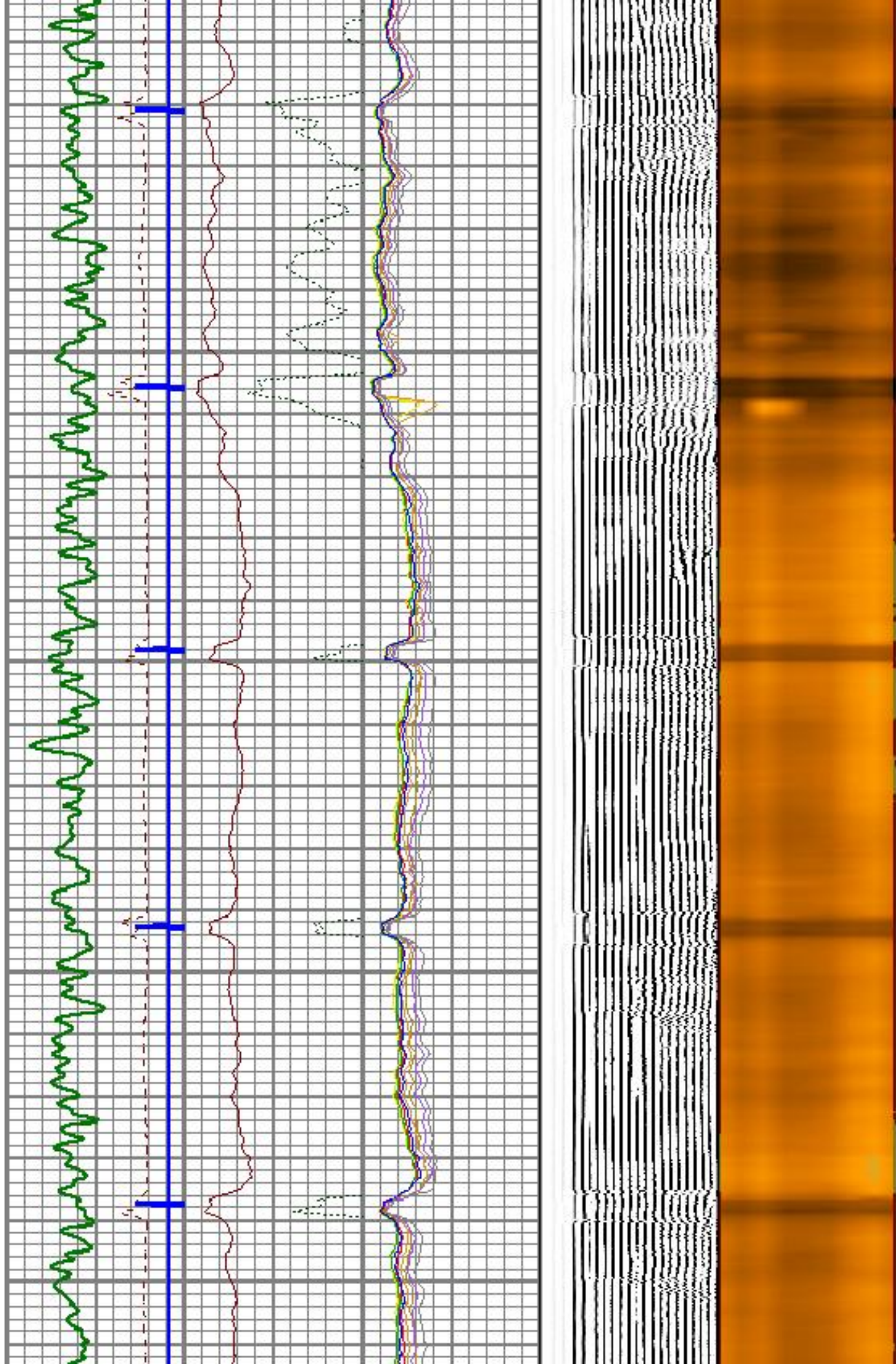
4.5





3100

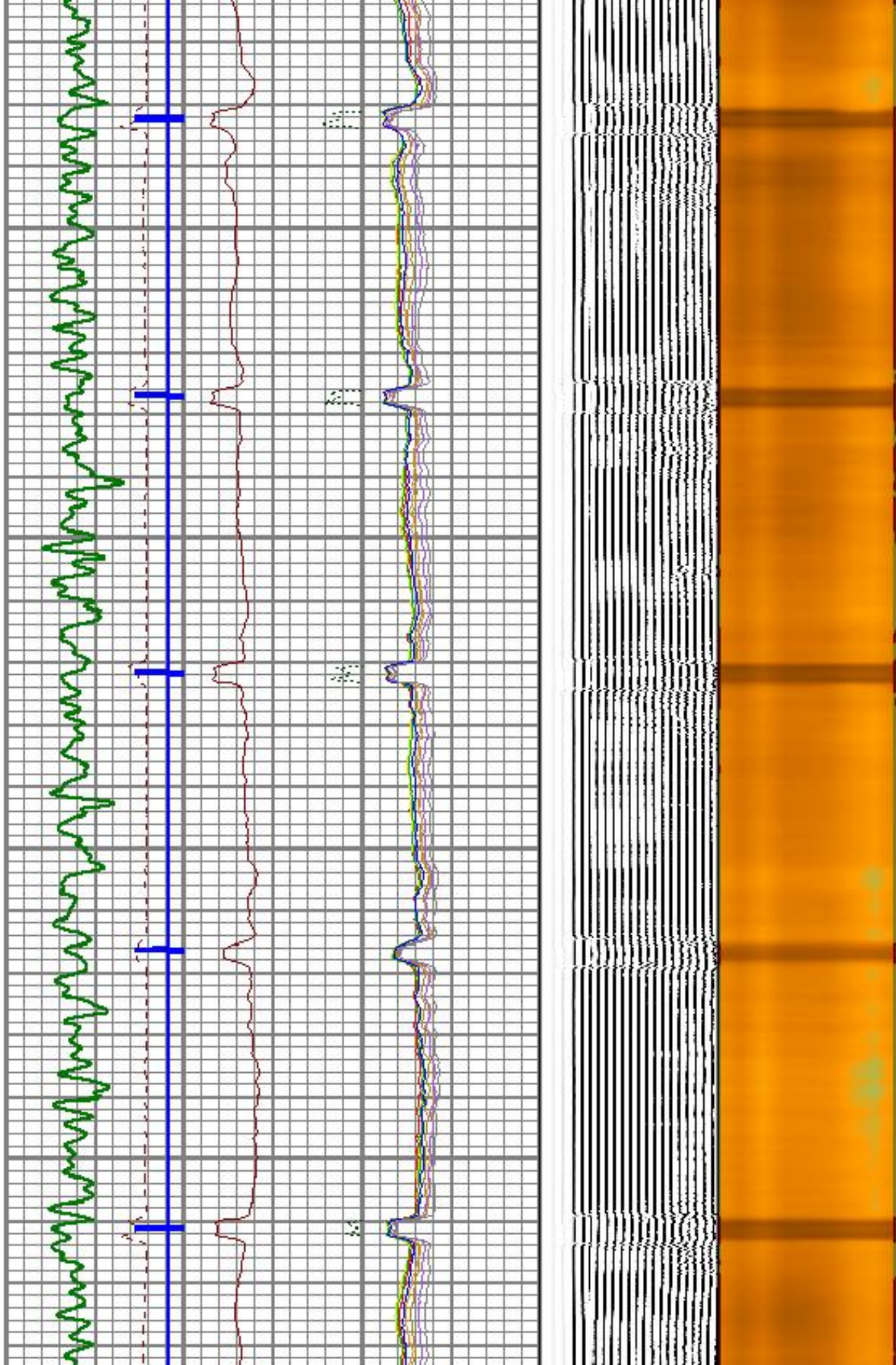
3200





3300

3400

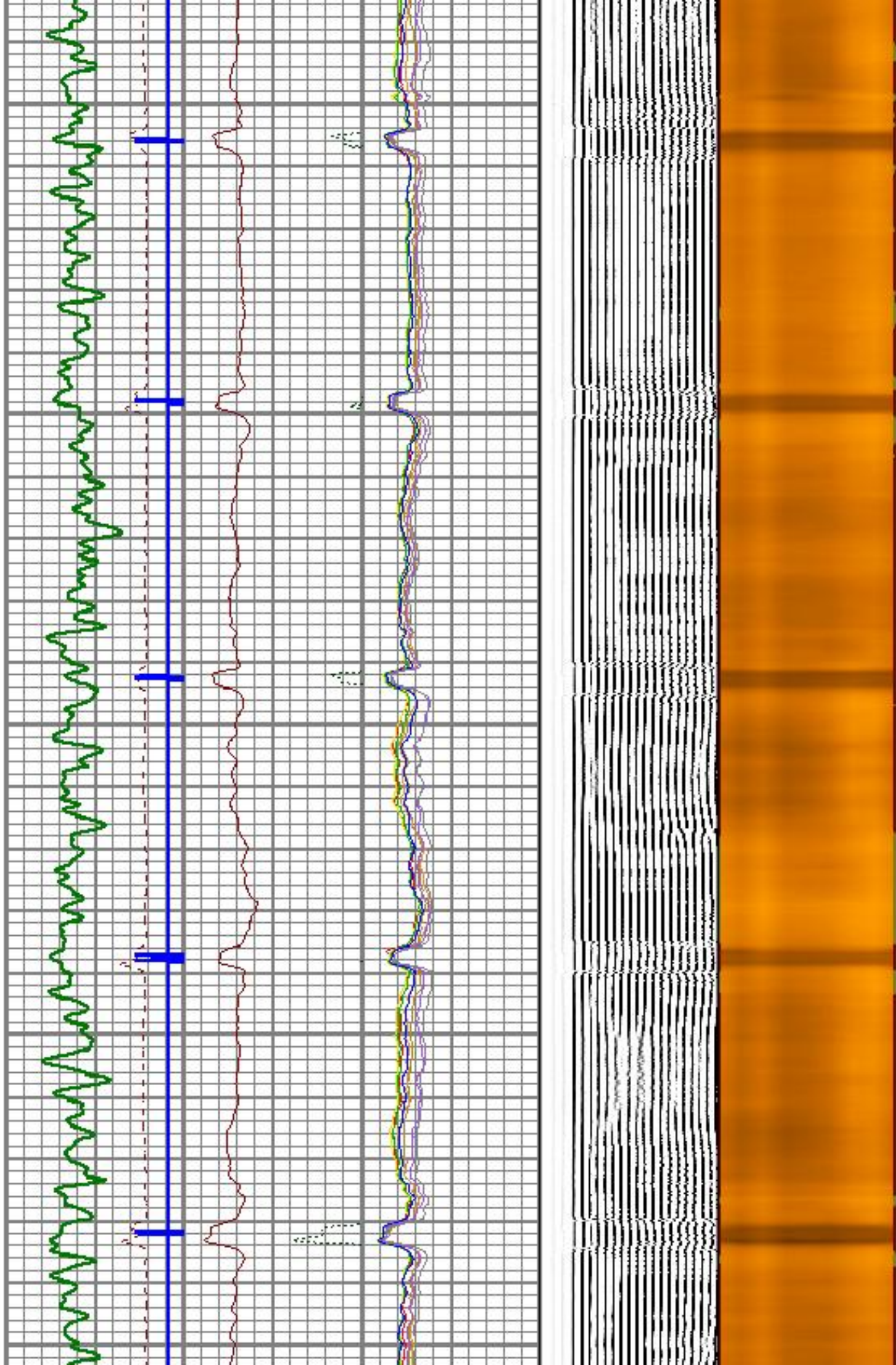




3500

3600

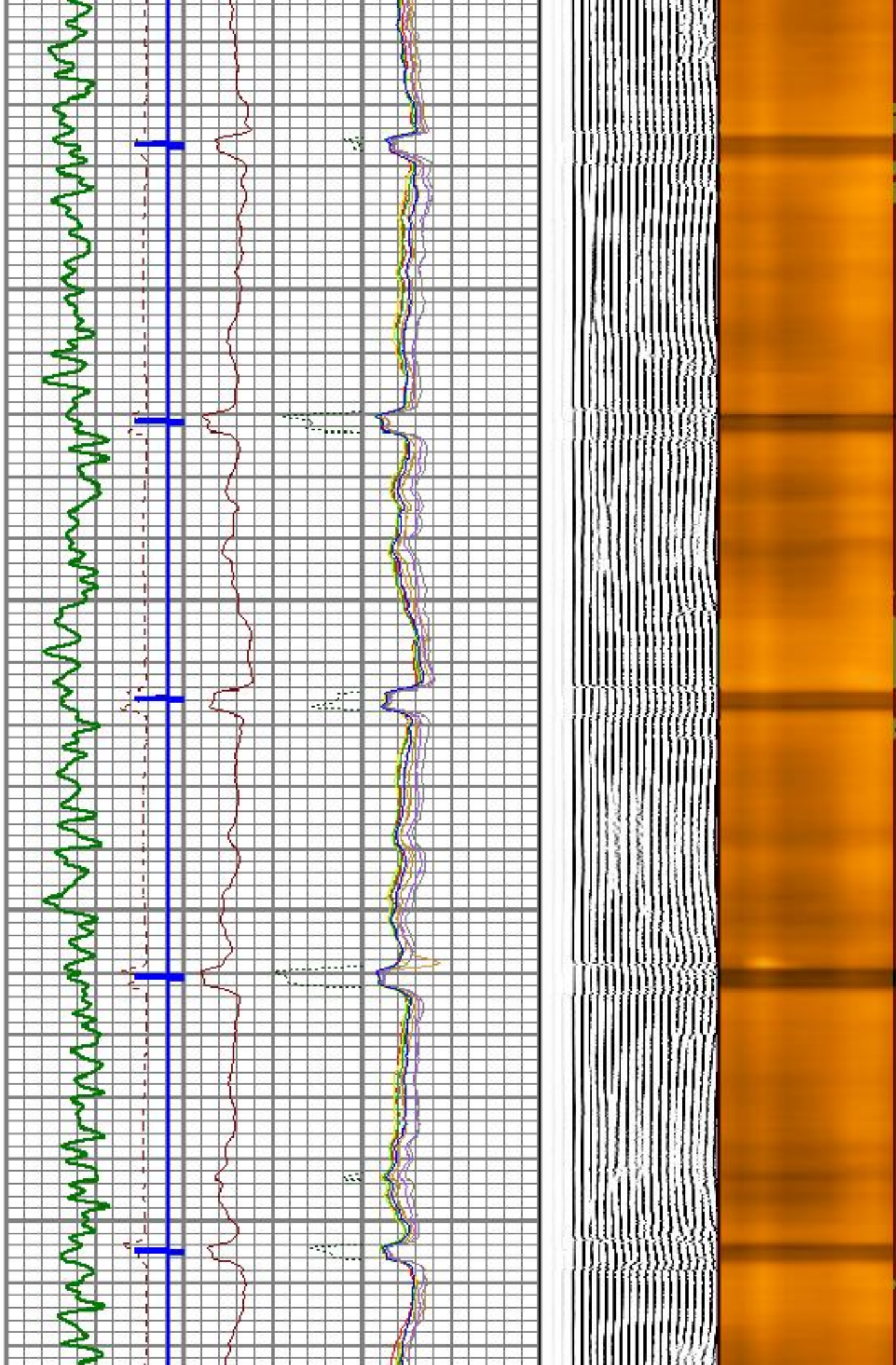
3700





3800

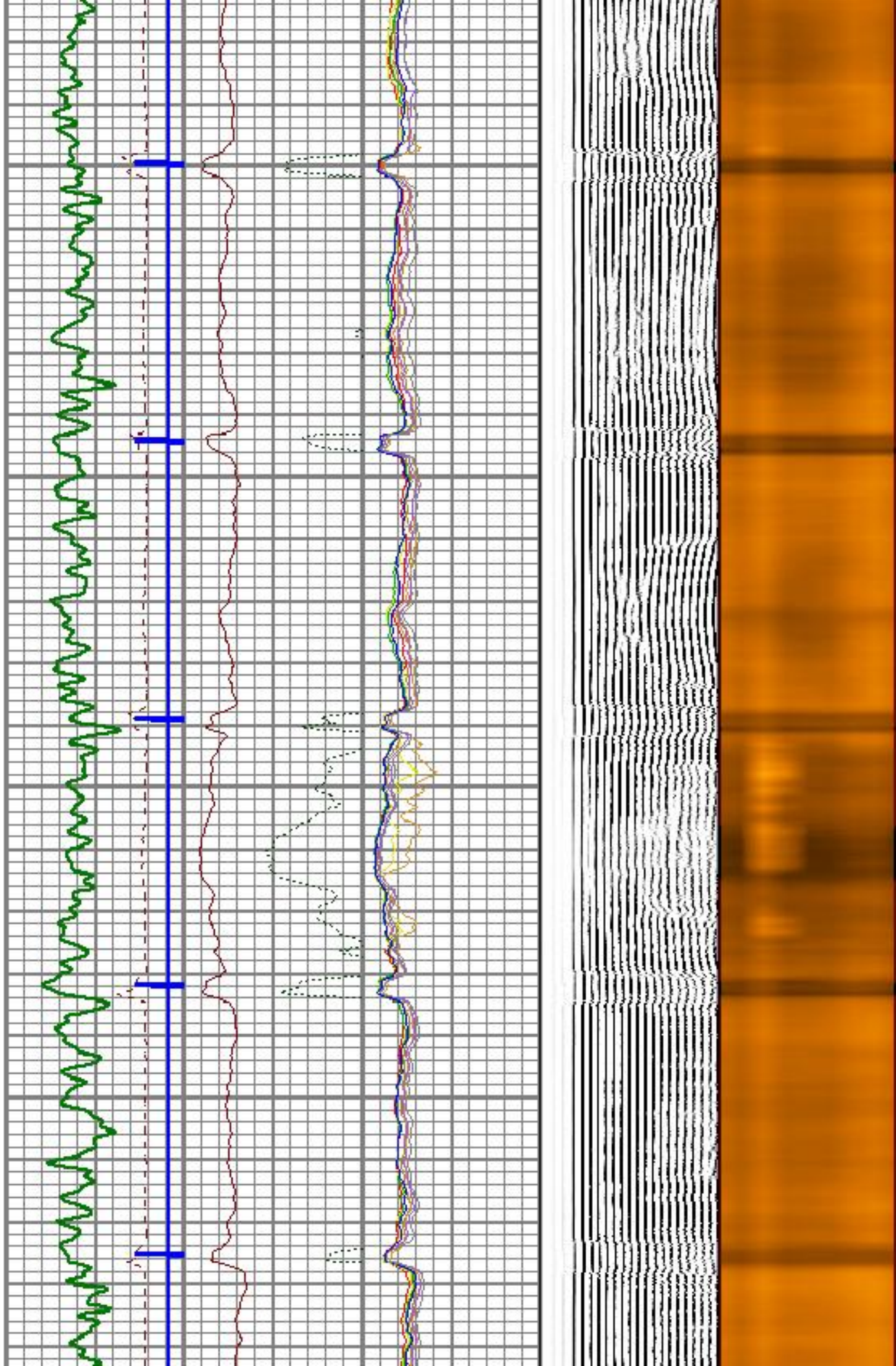
3900





4000

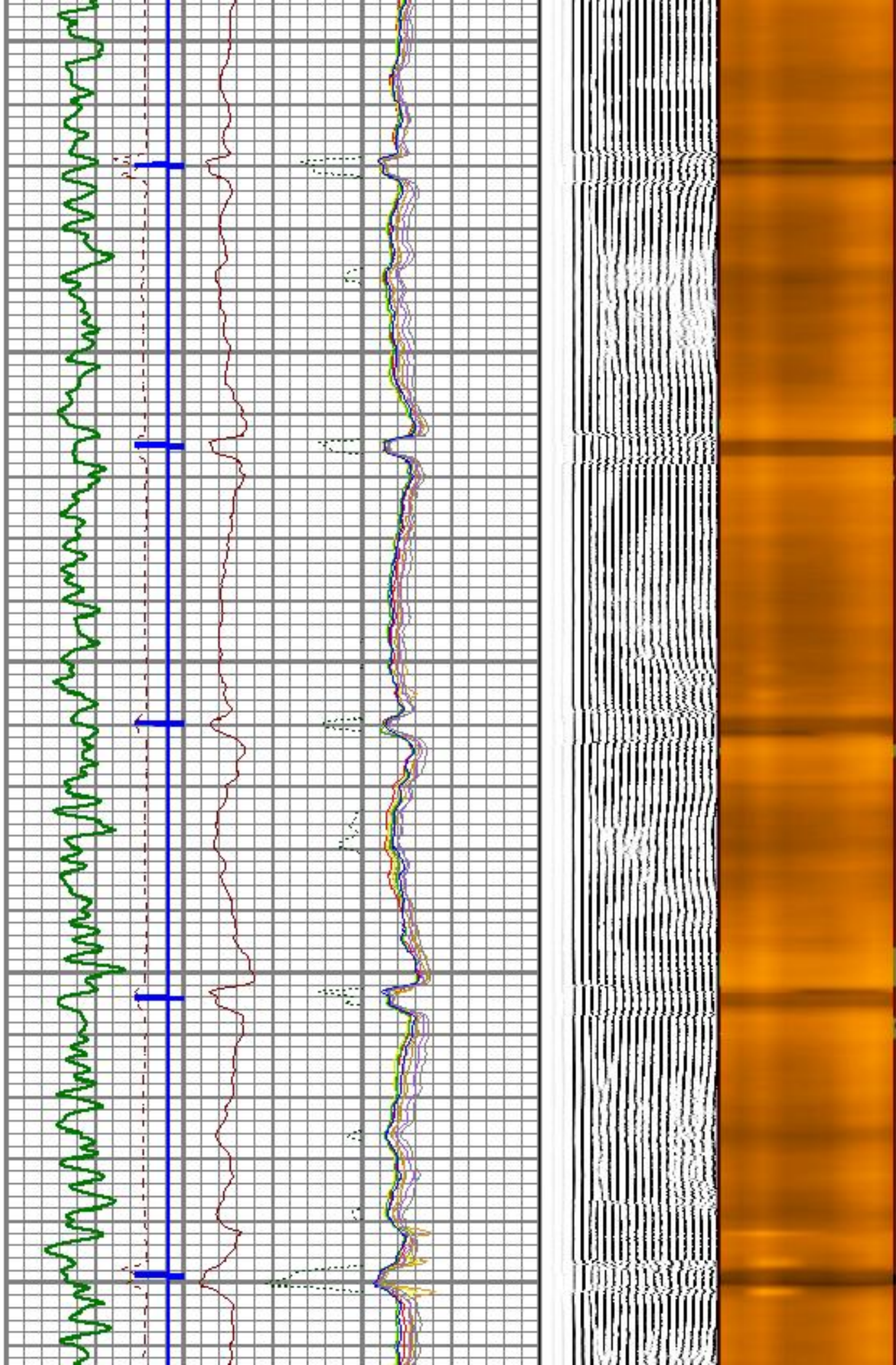
4100





4200

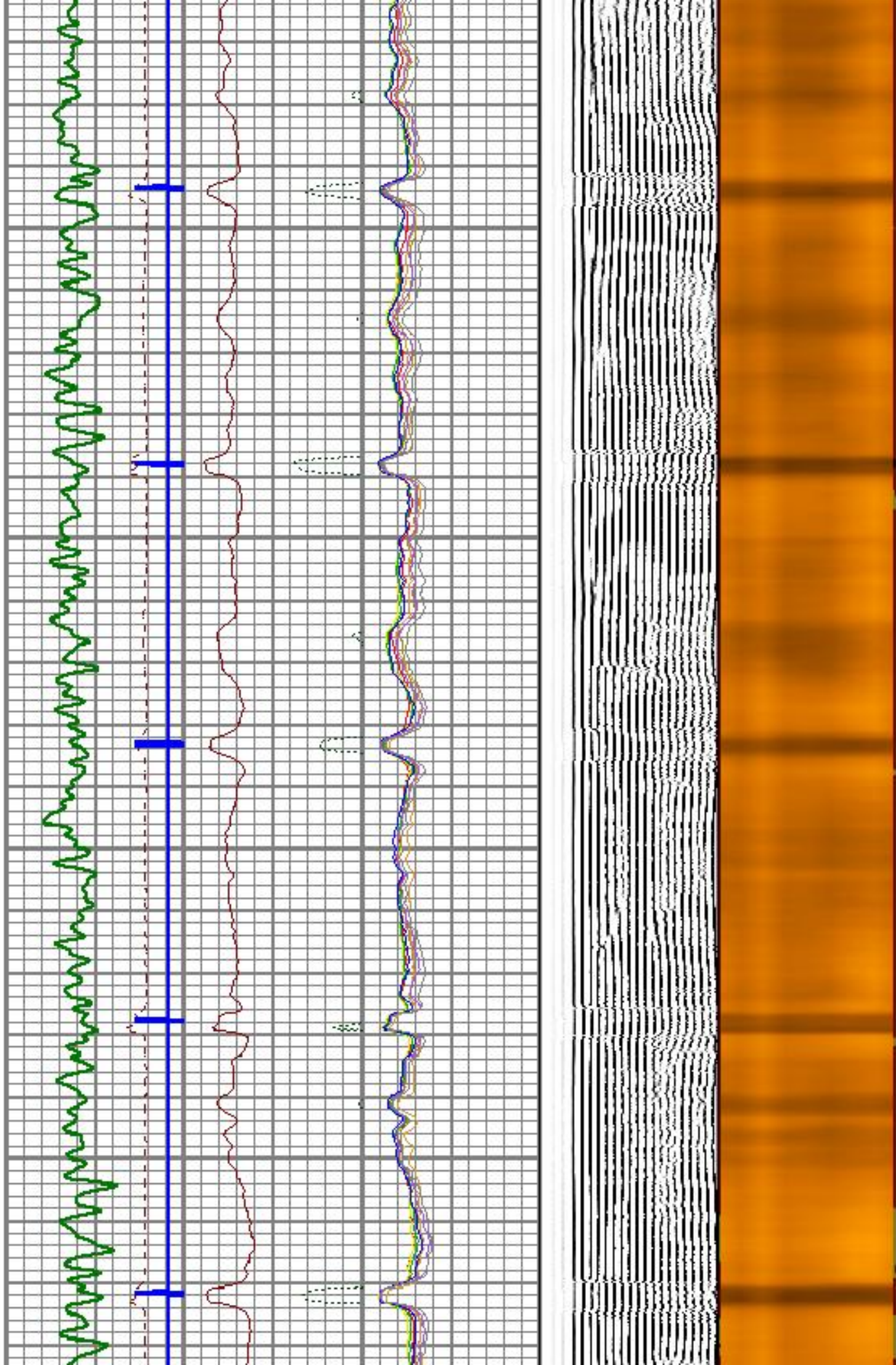
4300





4400

4500

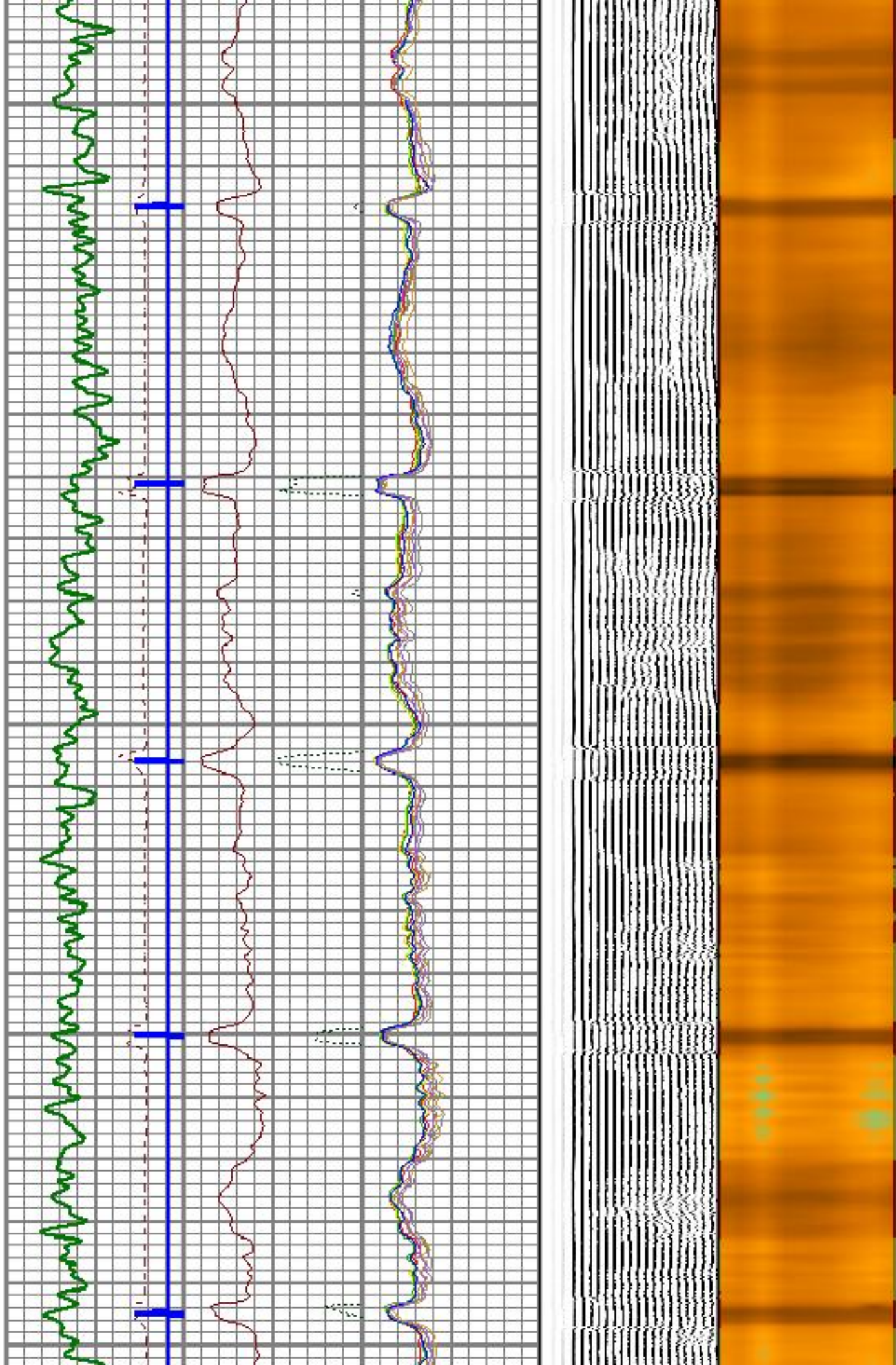




4600

4700

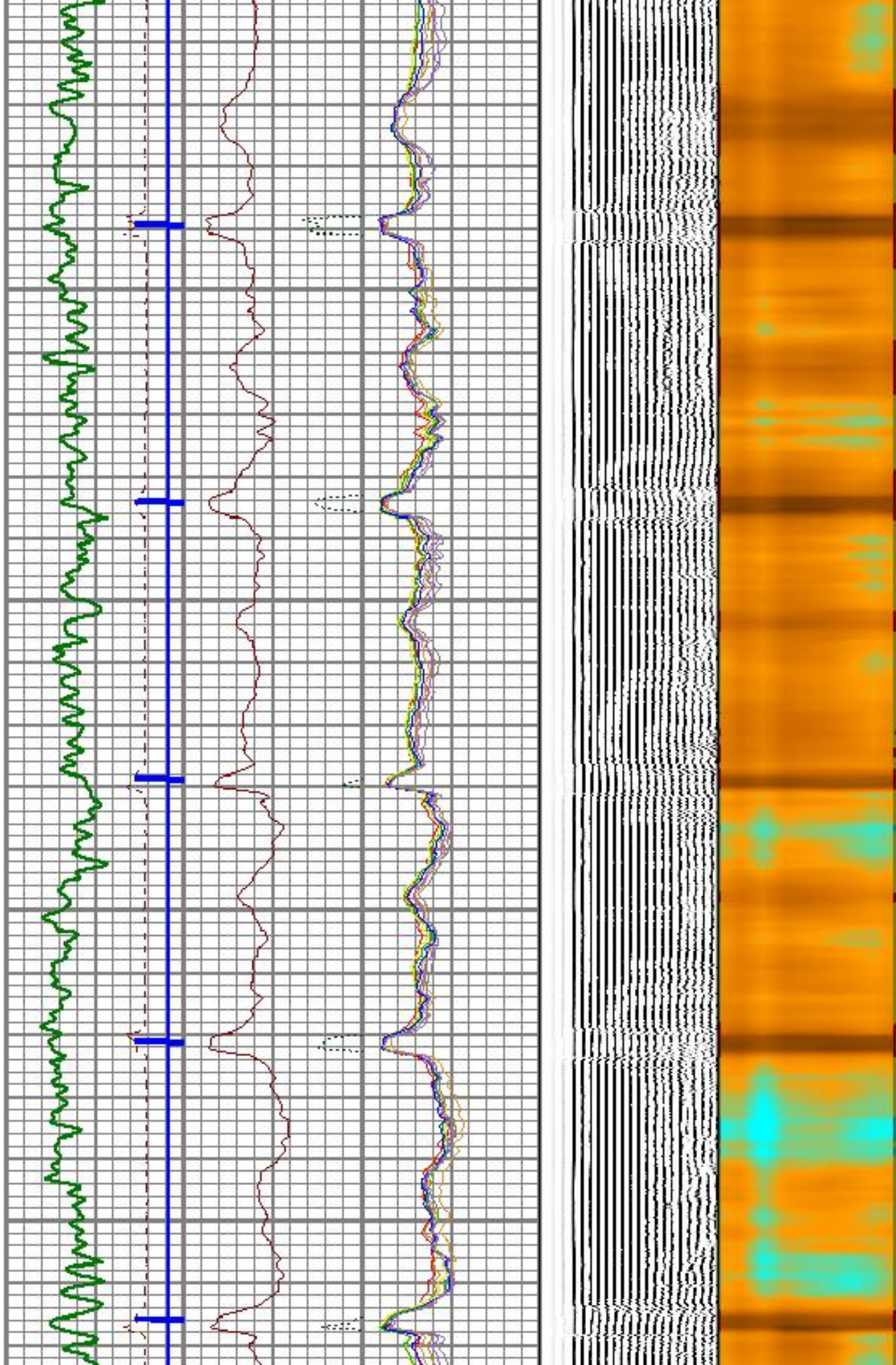
4800





4900

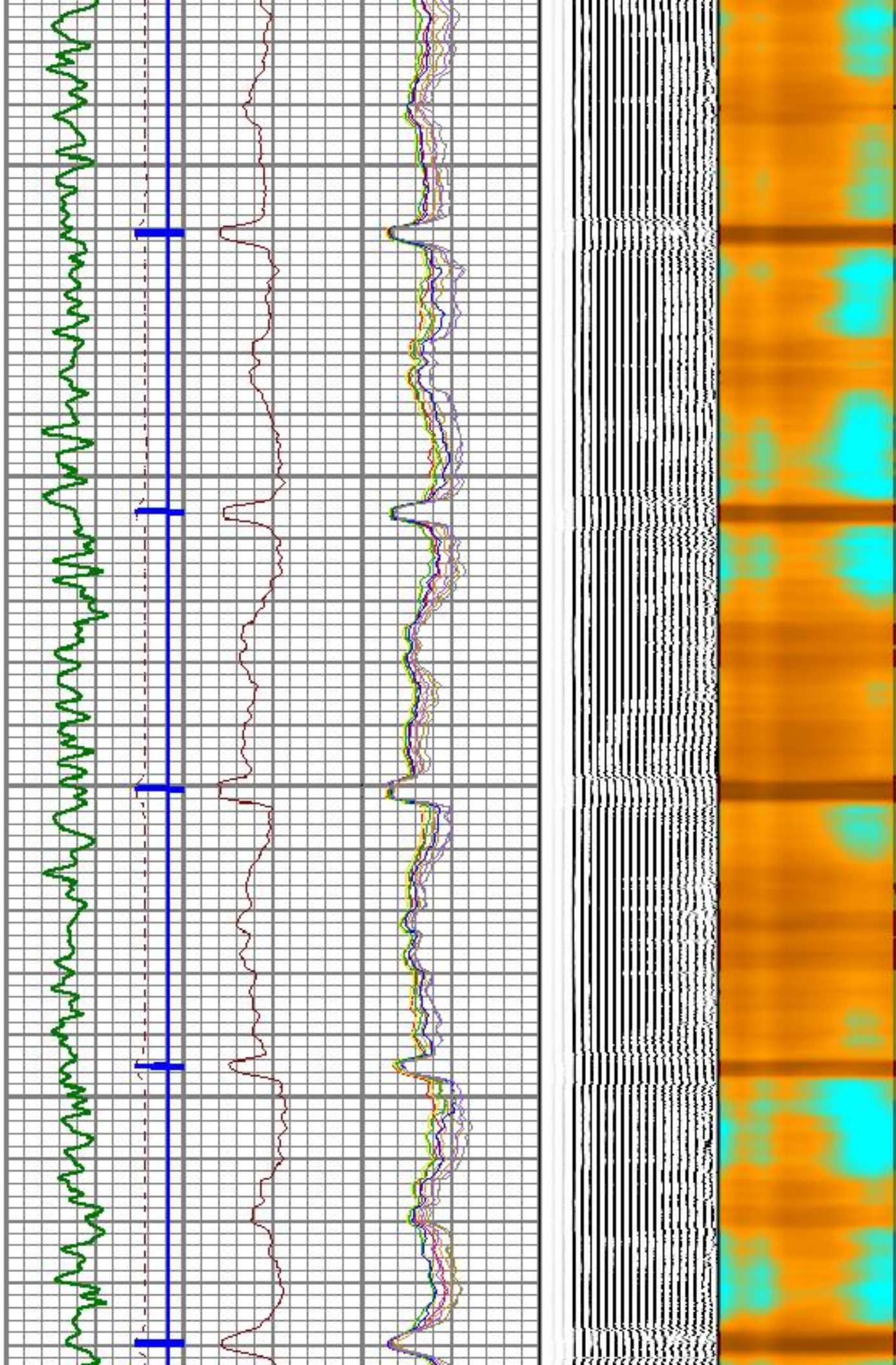
5000





5100

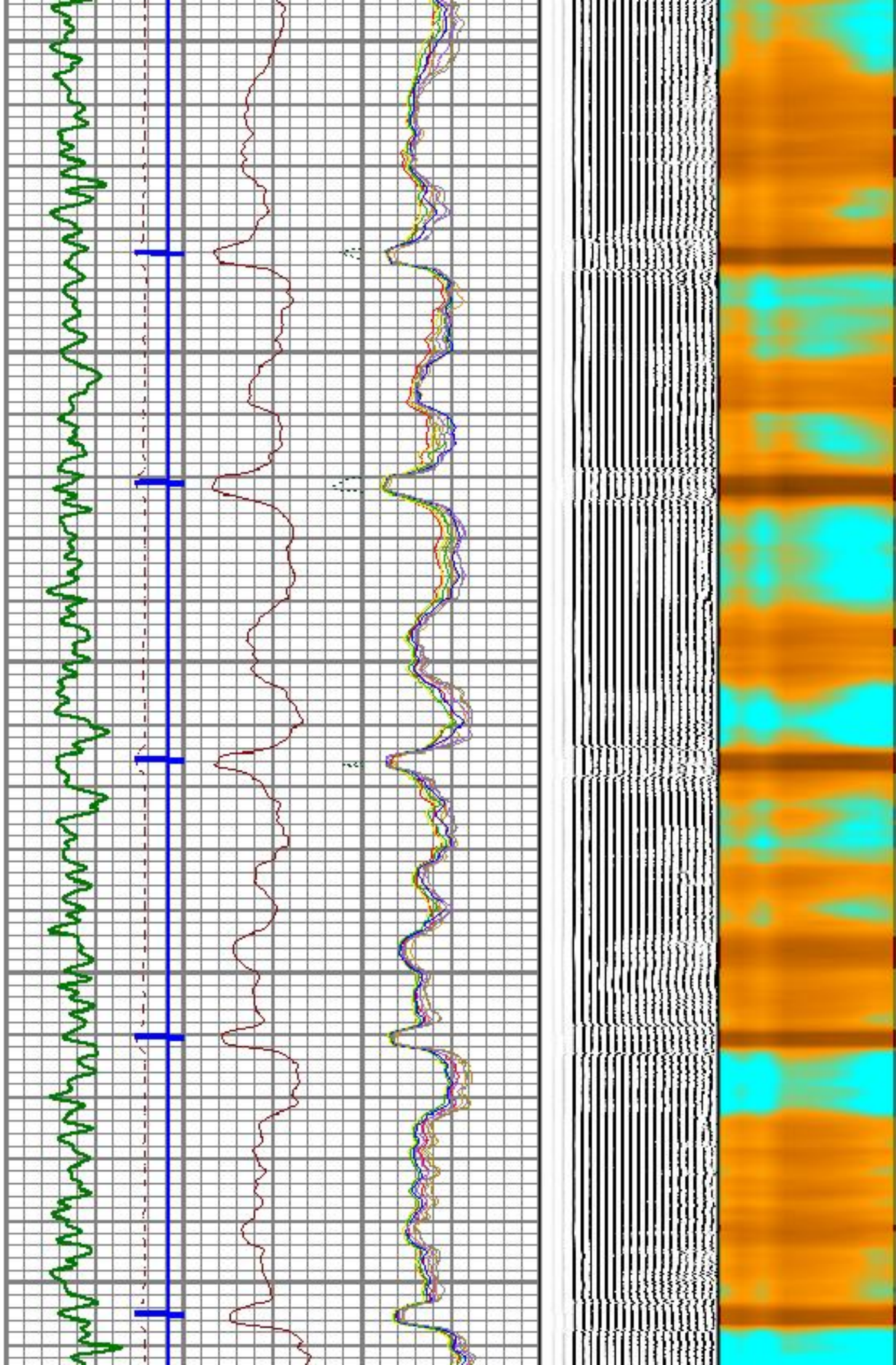
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5300

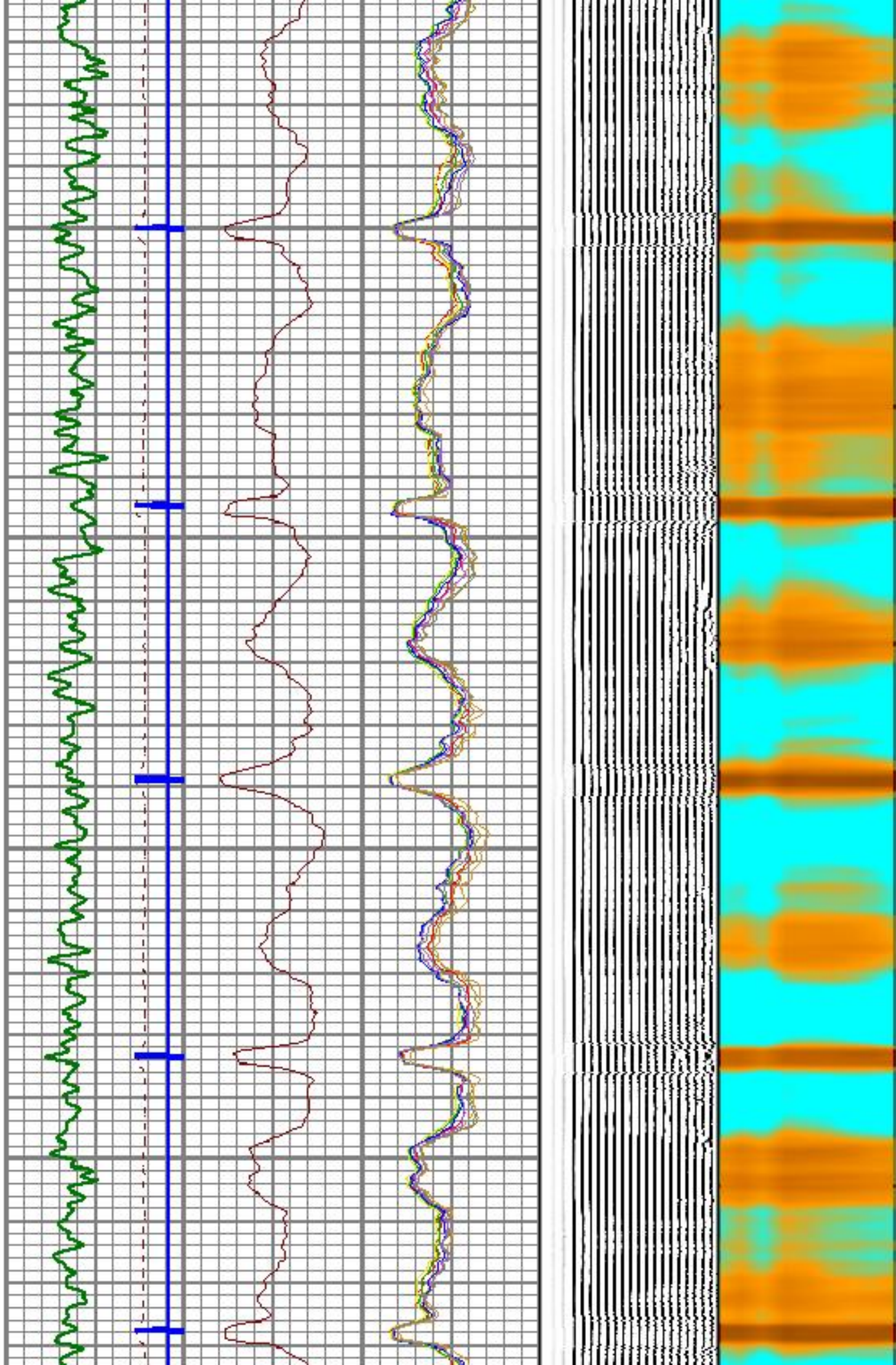
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5500

5600

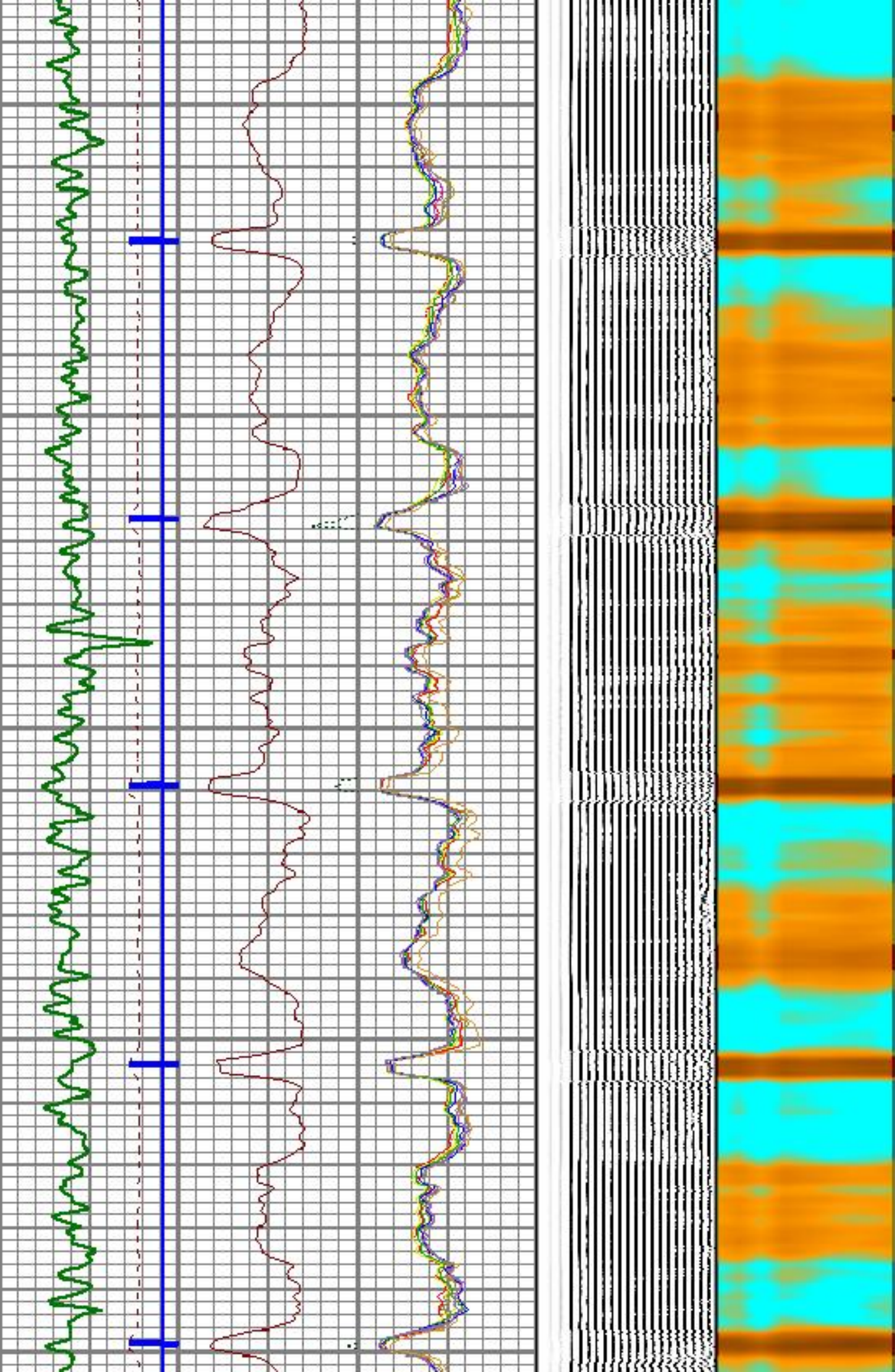




5700

5800

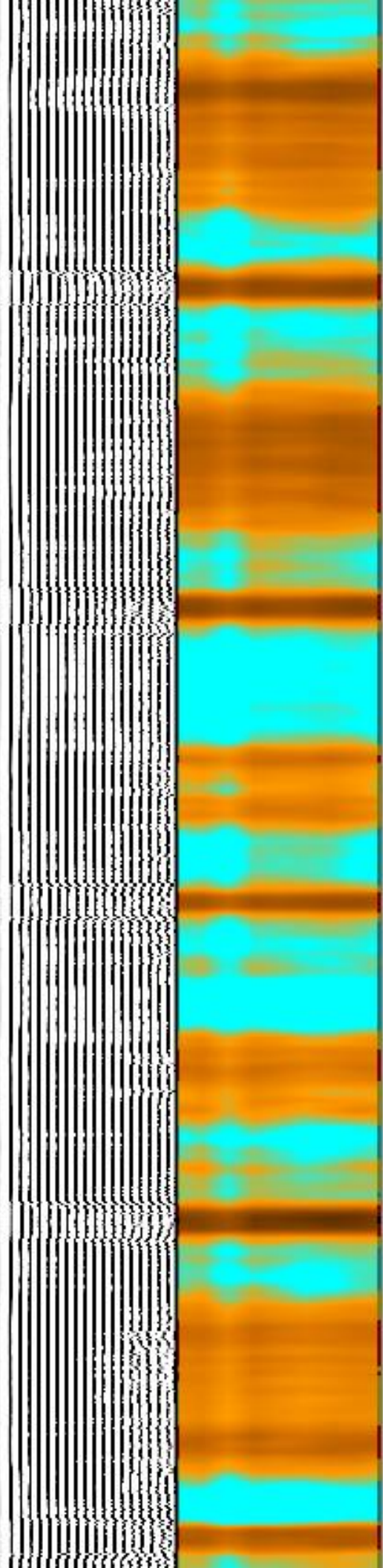
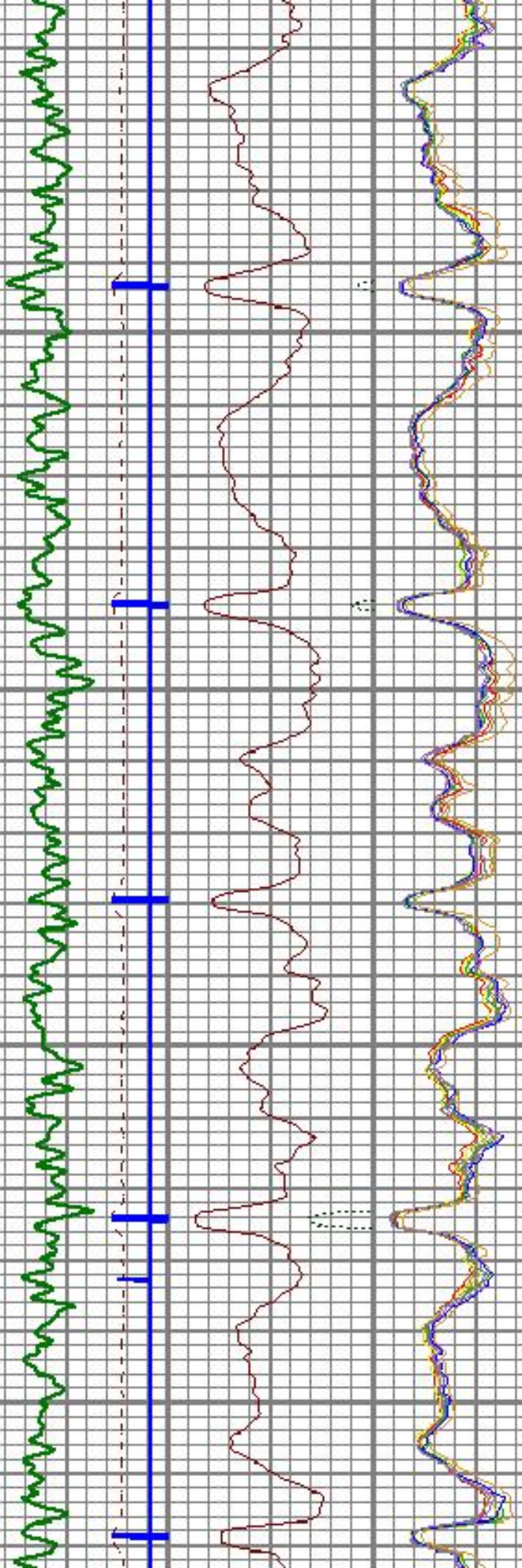
5900





6000

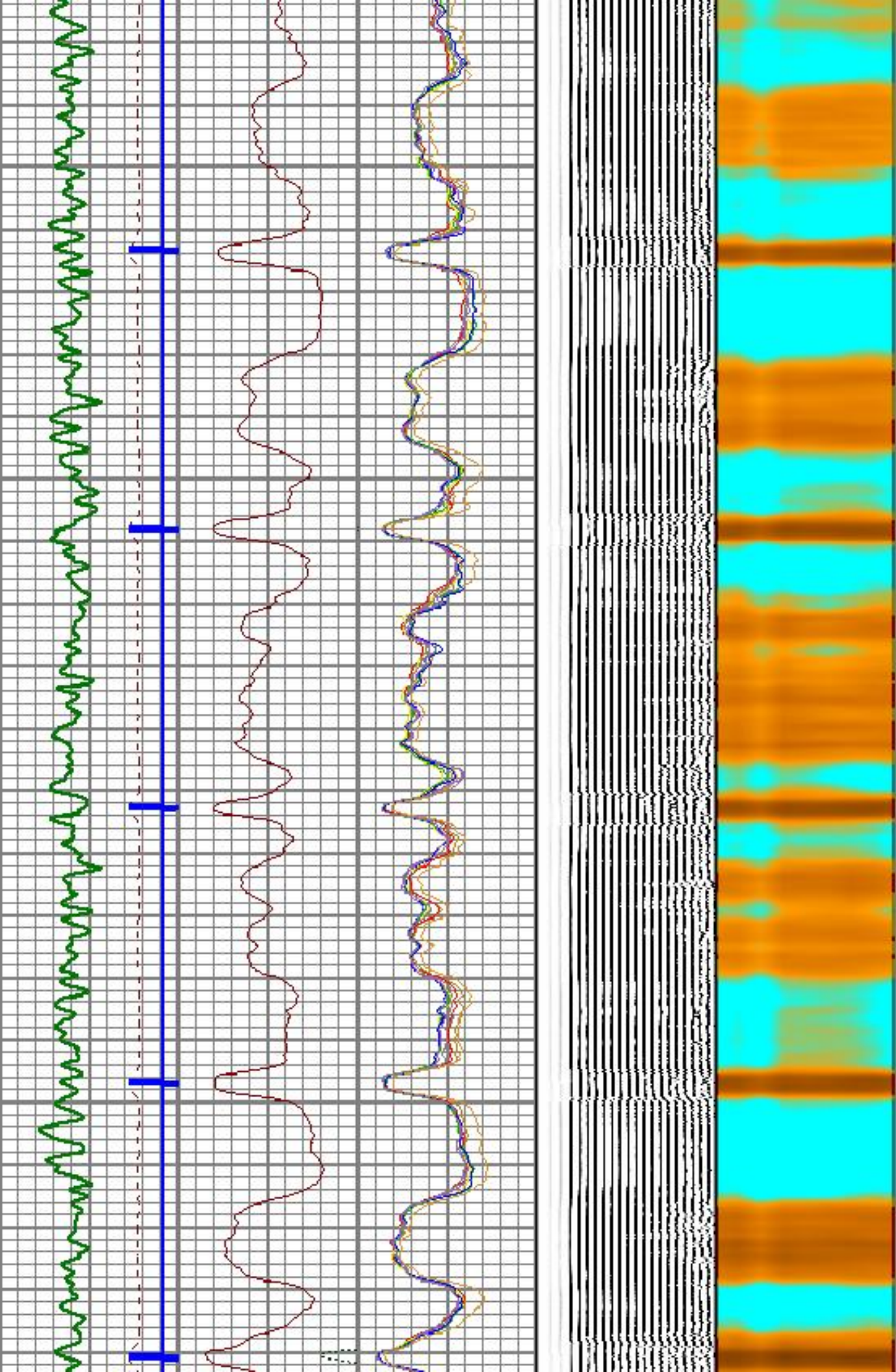
6100





6200

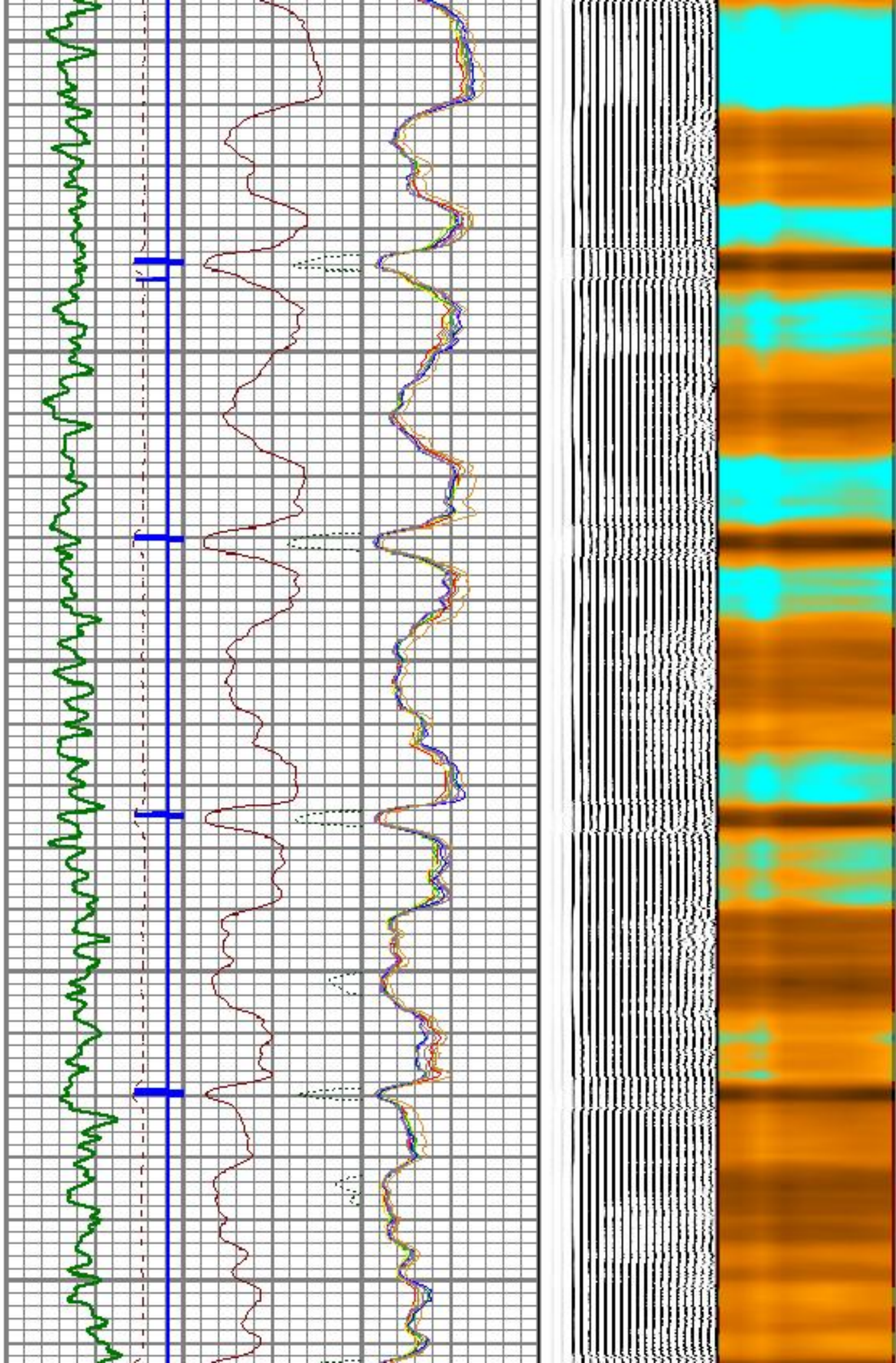
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6400

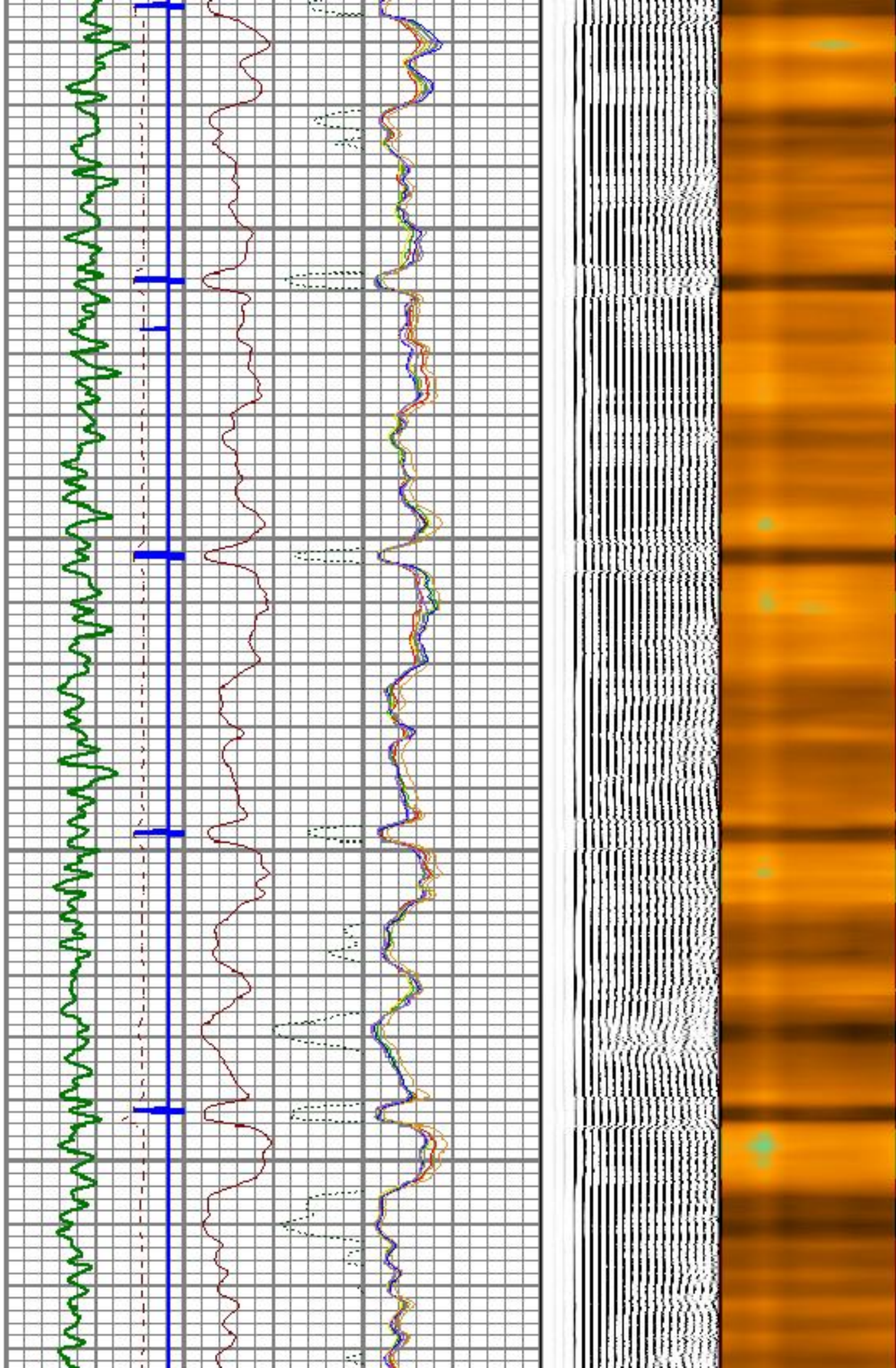
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6600

6700

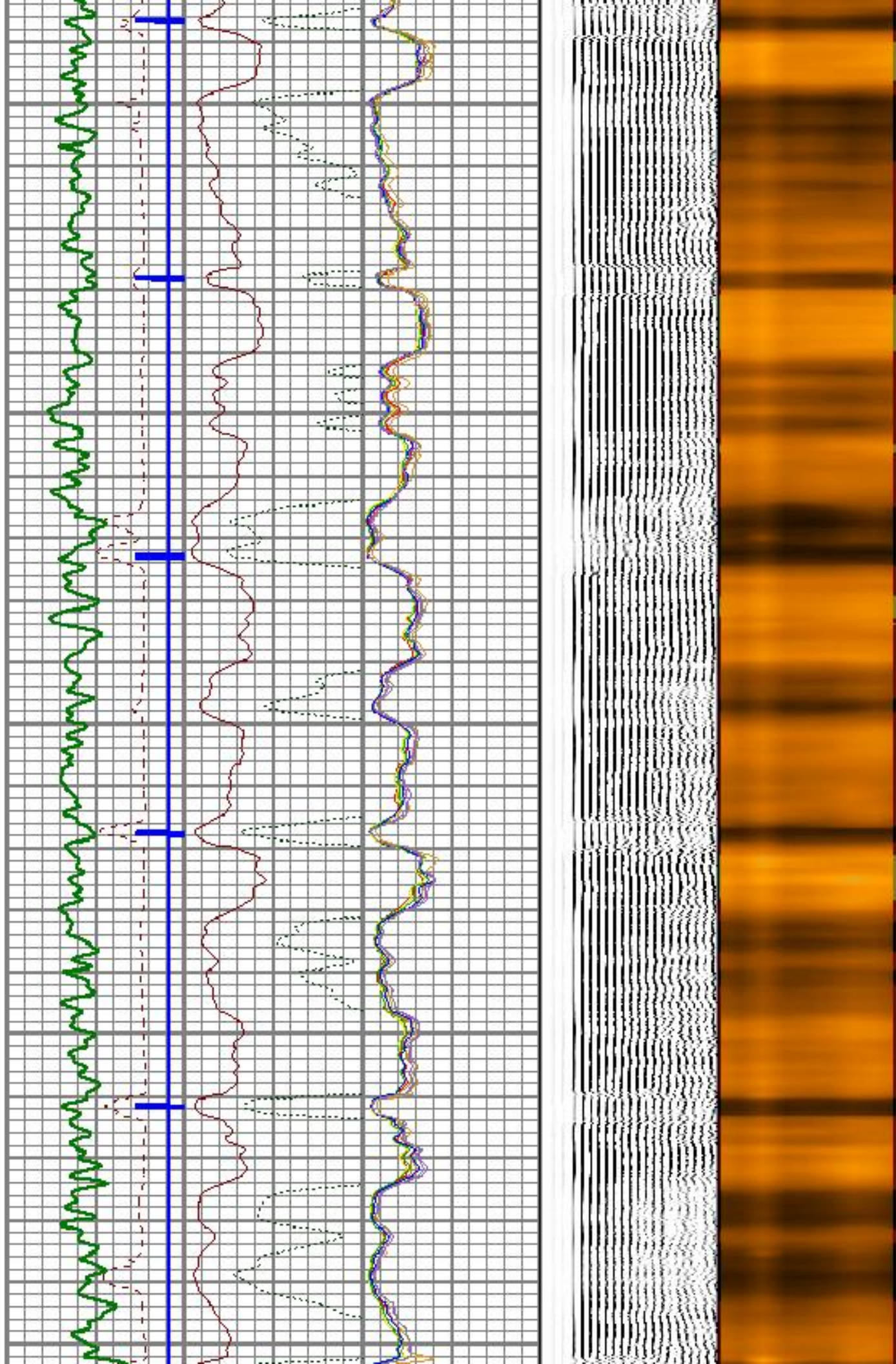




6800

6900

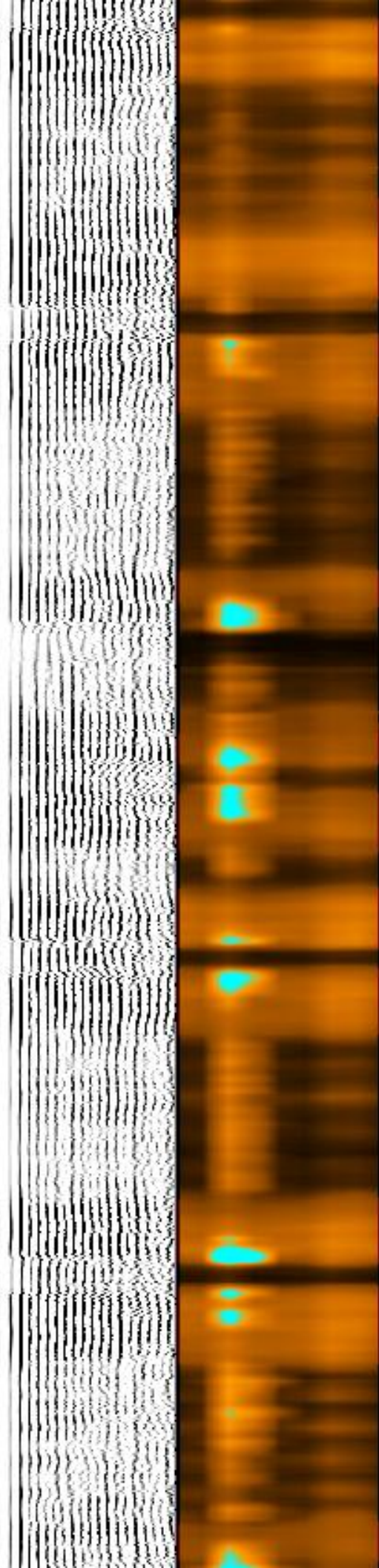
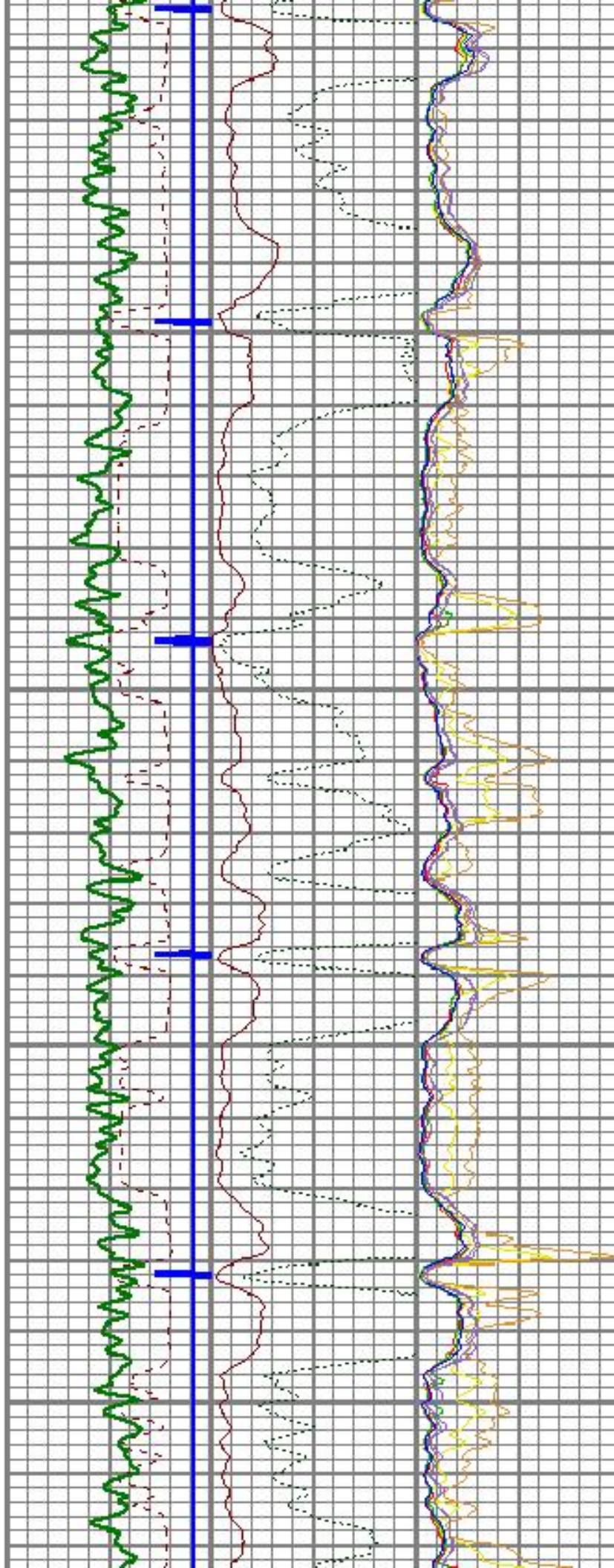
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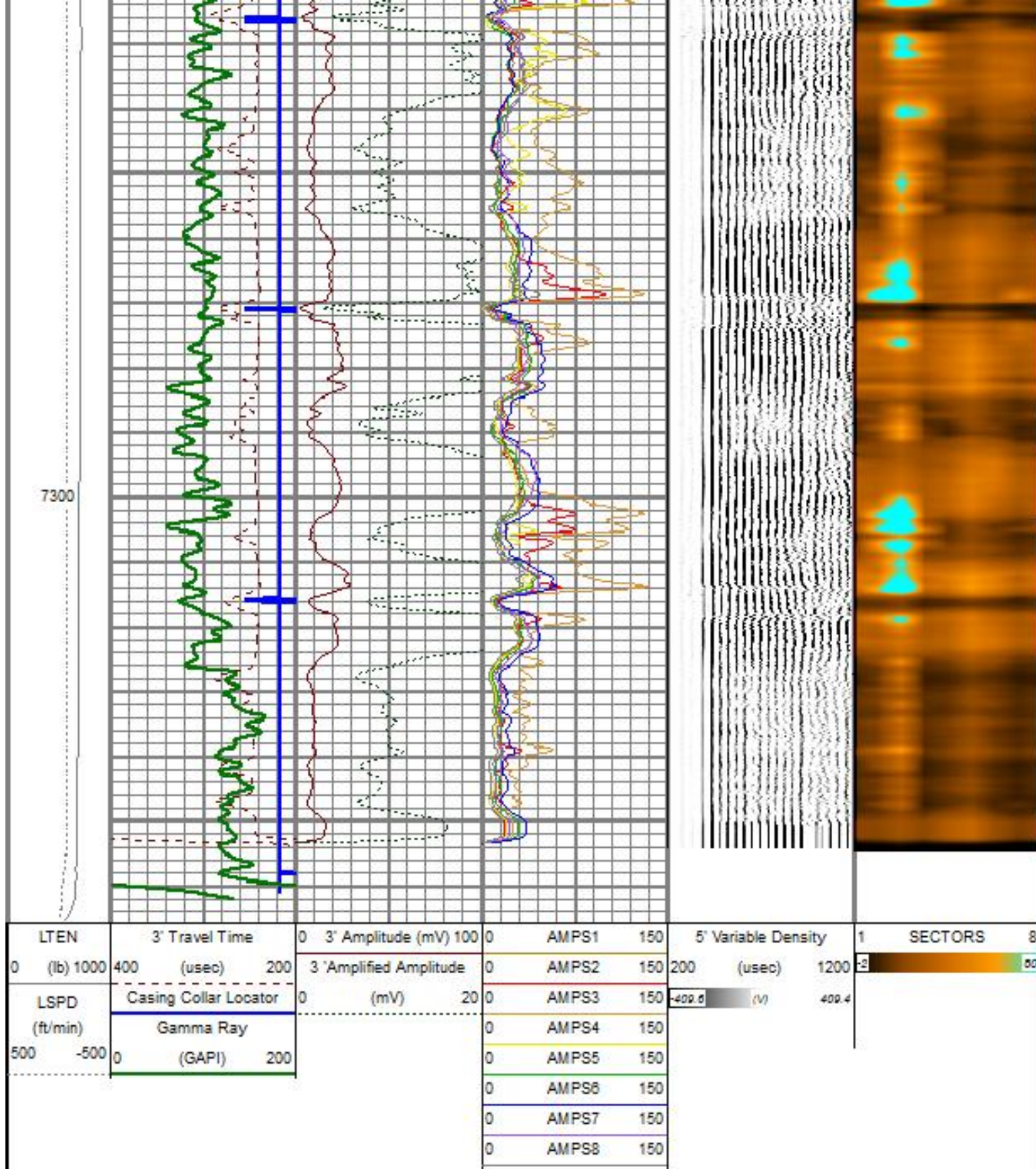


7100

7200





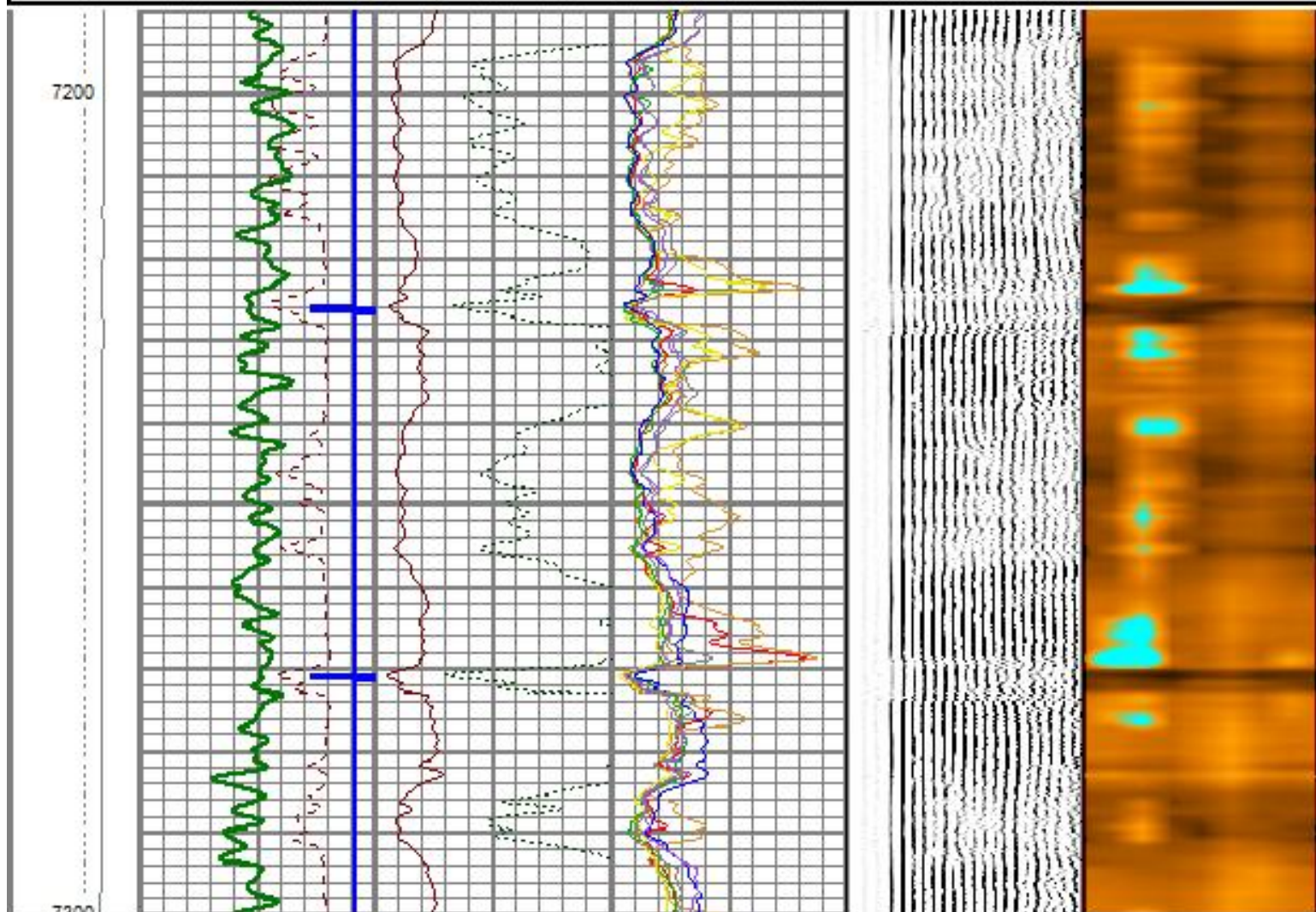


# REPEAT SECTION

Database File 90671\_highpoint\_grinde\_robl.db  
 Dataset Pathname pass3  
 Presentation Format rbl\_all\_8\_2020  
 Dataset Creation Sun Jan 12 07:53:09 2020



LTEN	3' Travel Time	0 3' Amplitude (mV) 100	0 AMPS1 150	5' Variable Density	1 SECTORS 8
0 (lb) 1000	400 (usec) 200	3 'Amplified Amplitude	0 AMPS2 150	200 (usec) 1200	-2 80
LSPD	Casing Collar Locator	0 (mV) 20	0 AMPS3 150	-400.0 (V) 400.4	
(ft/min)	Gamma Ray		0 AMPS4 150		
500 -500	0 (GAPI) 200		0 AMPS5 150		
			0 AMPS6 150		
			0 AMPS7 150		
			0 AMPS8 150		



LTEN	3' Travel Time	0 3' Amplitude (mV) 100	0 AMPS1 150	5' Variable Density	1 SECTORS 8
0 (lb) 1000	400 (usec) 200	3 'Amplified Amplitude	0 AMPS2 150	200 (usec) 1200	-2 80
LSPD	Casing Collar Locator	0 (mV) 20	0 AMPS3 150	-400.0 (V) 400.4	
(ft/min)	Gamma Ray		0 AMPS4 150		
500 -500	0 (GAPI) 200		0 AMPS5 150		
			0 AMPS6 150		
			0 AMPS7 150		
			0 AMPS8 150		