



GAMMA RAY CCL  
CEMENT BOND  
SECTOR VDL

Company CRESTONE PEAK RES. OPERATING LLC  
Well LUSSING TRUST 4-64 19-20 2AH  
Field DJ HORIZONTAL NIOBRARA  
County ARAPAHOE  
State COLORADO

Company CRESTONE PEAK RES. OPERATING LLC  
Well LUSSING TRUST 4-64 19-20 2AH  
Field DJ HORIZONTAL NIOBRARA  
County ARAPAHOE State COLORADO

Location: API #: 05-005-07565  
SEC 19 TWP 4S RGE 64W  
Permanent Datum GL Elevation 5696  
Log Measured From KB  
Drilling Measured From KB  
Other Services  
K.B. 5721  
D.F. 5720  
G.L. 5696

Date AUGUST 23, 2024  
Run Number ONE  
Depth Driller 18,146  
Depth Logger 7961  
Bottom Logged Interval 7961  
Top Log Interval 91  
Open Hole Size 8-1/2  
Type Fluid WATER  
Density / Viscosity N/A  
Max. Recorded Temp. 245°F  
Estimated Cement Top 428  
Time Well Ready ROA  
Time Logger on Bottom 8:30  
Equipment Number 802  
Location KERSEY, CO  
Recorded By GREG NOLAN  
Witnessed By JOSH KLIJESON

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

Casing Record	Size	Mgt/Ft	Top	Bottom
Surface String	9-5/8	36# J-55	SURFACE	3229
Prot. String				
Production String	5-1/2	20# P-110	SURFACE	18,146
Liner				

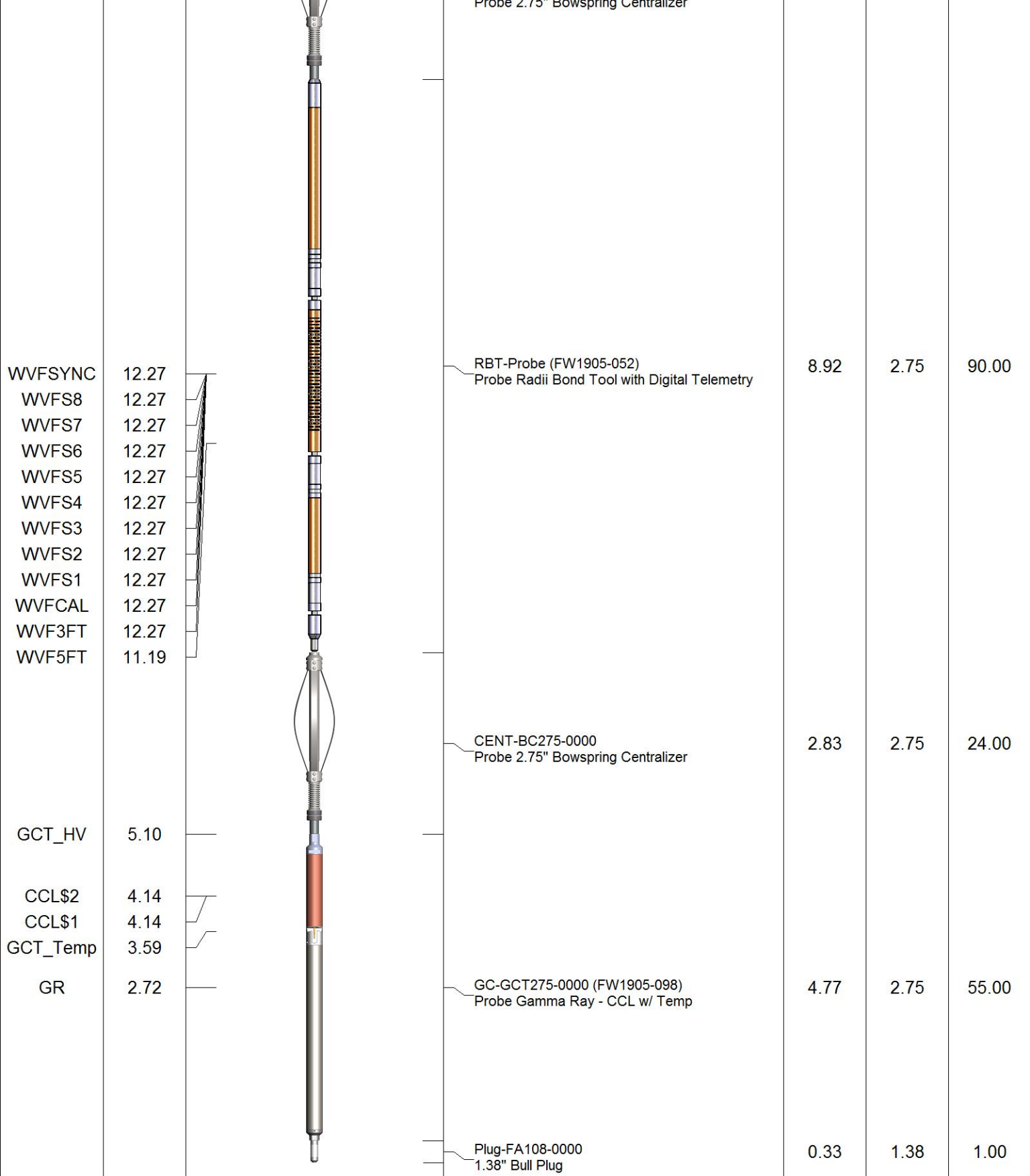
<<< Fold Here >>>

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

THANK YOU FOR CHOOSING SUREFIRE WIRELINE WEST!!!!

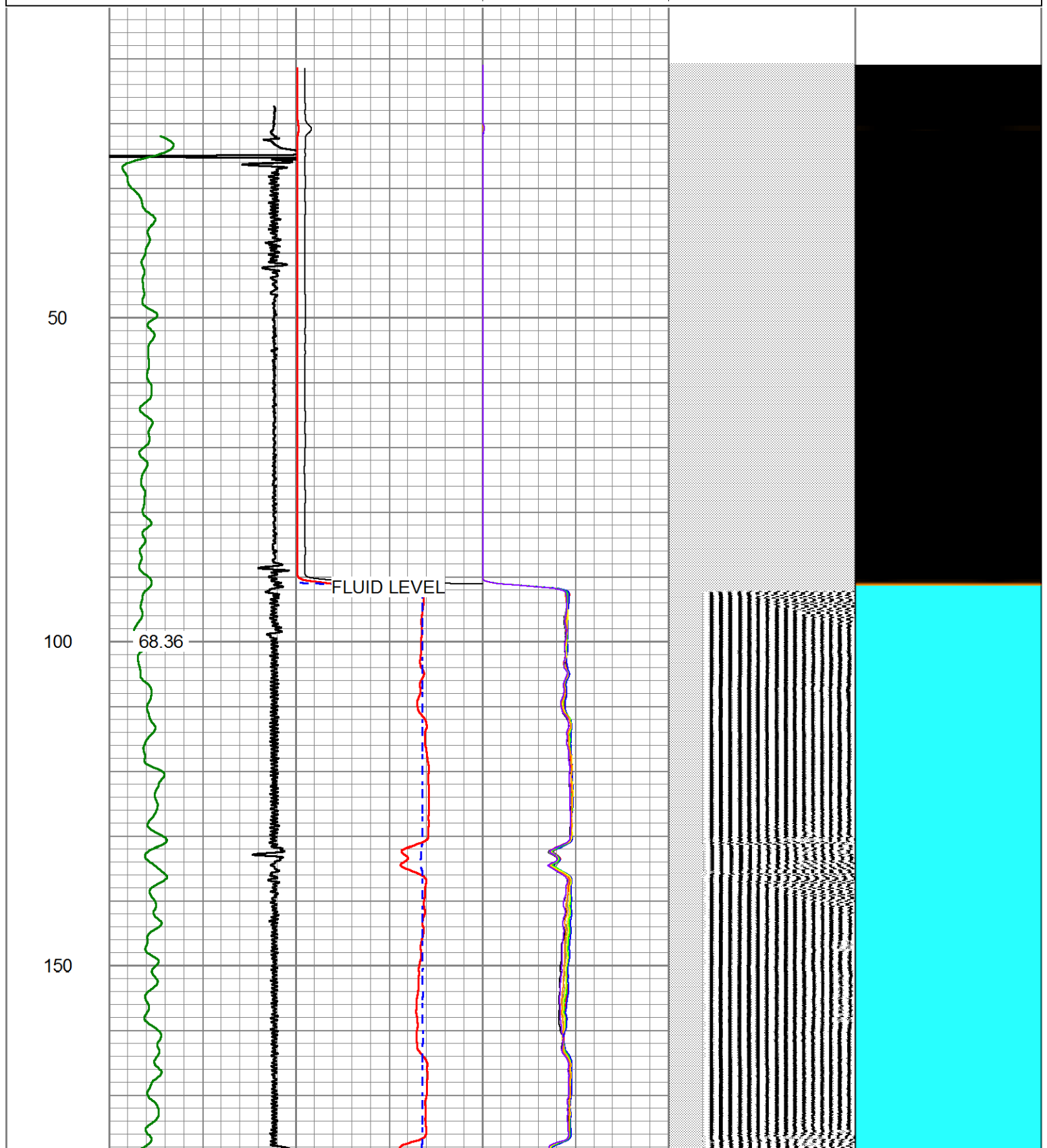
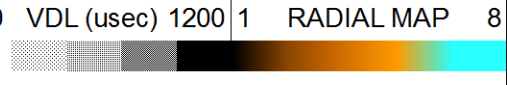
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ErrCt	19.69		CENT-BC275-0000 Pulsar 275L Resonance Centralizer	2.83	2.75	24.00



Dataset: cbl civitas lussing trust 4-64 19-20 2ah.db: field/well/run1/pass4  
 Total length: 19.69 ft  
 Total weight: 194.00 lb  
 O.D.: 2.75 in

Database File: cbl civitas lussing trust 4-64 19-20 2ah.db  
 Dataset Pathname: pass4  
 Presentation Format: civitas  
 Dataset Creation: Fri Aug 23 08:40:40 2024  
 Charted by: Depth in Feet scaled 1:240

5	CCL\$1	-0.625	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	650	TT (usec)	150	0	AMPS2	150						
GCT_TEMP			0	AMPx5 (mV)	20	0	AMPS3	150						
(degF)						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						



200

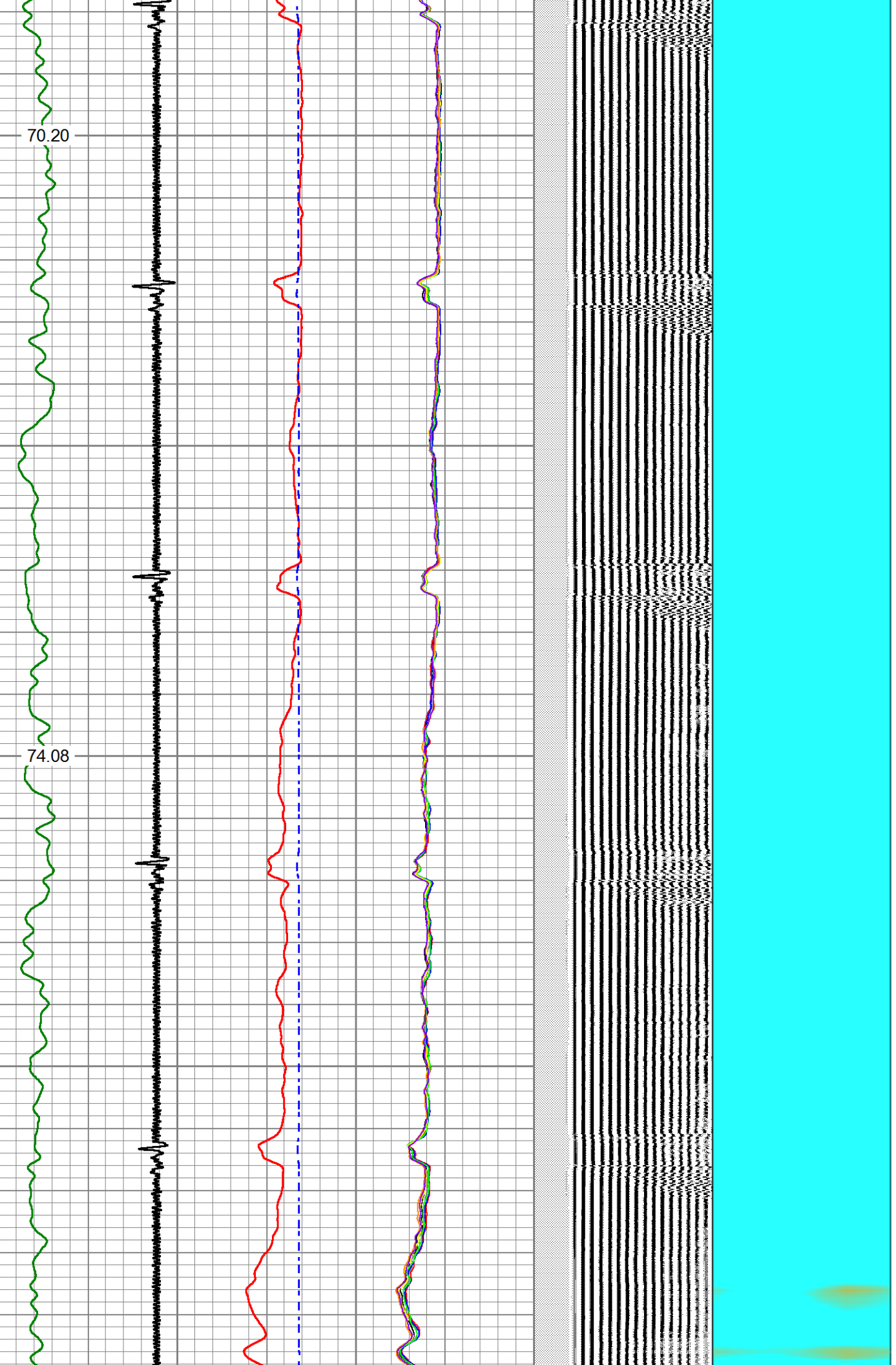
70.20

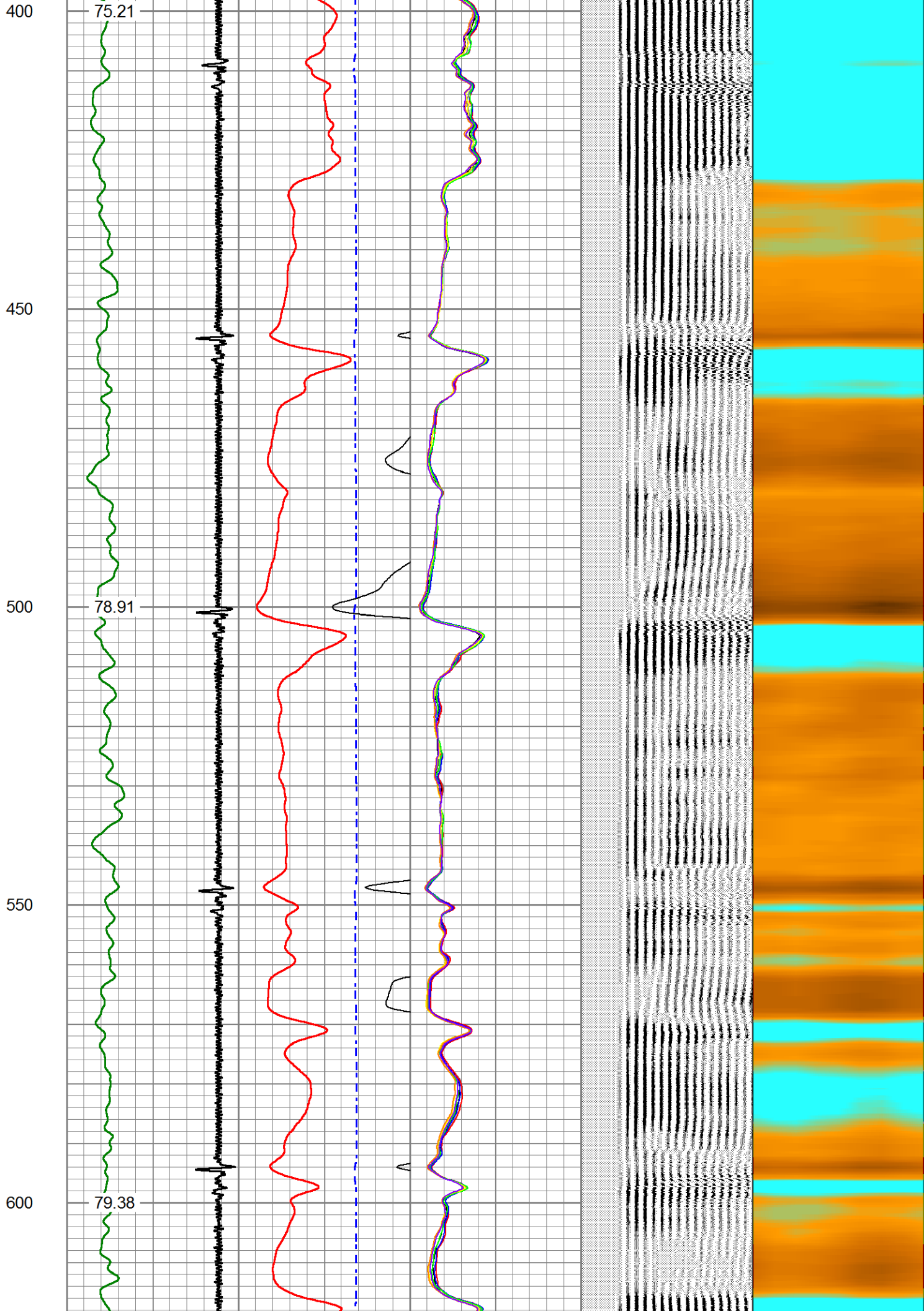
250

300

74.08

350





650

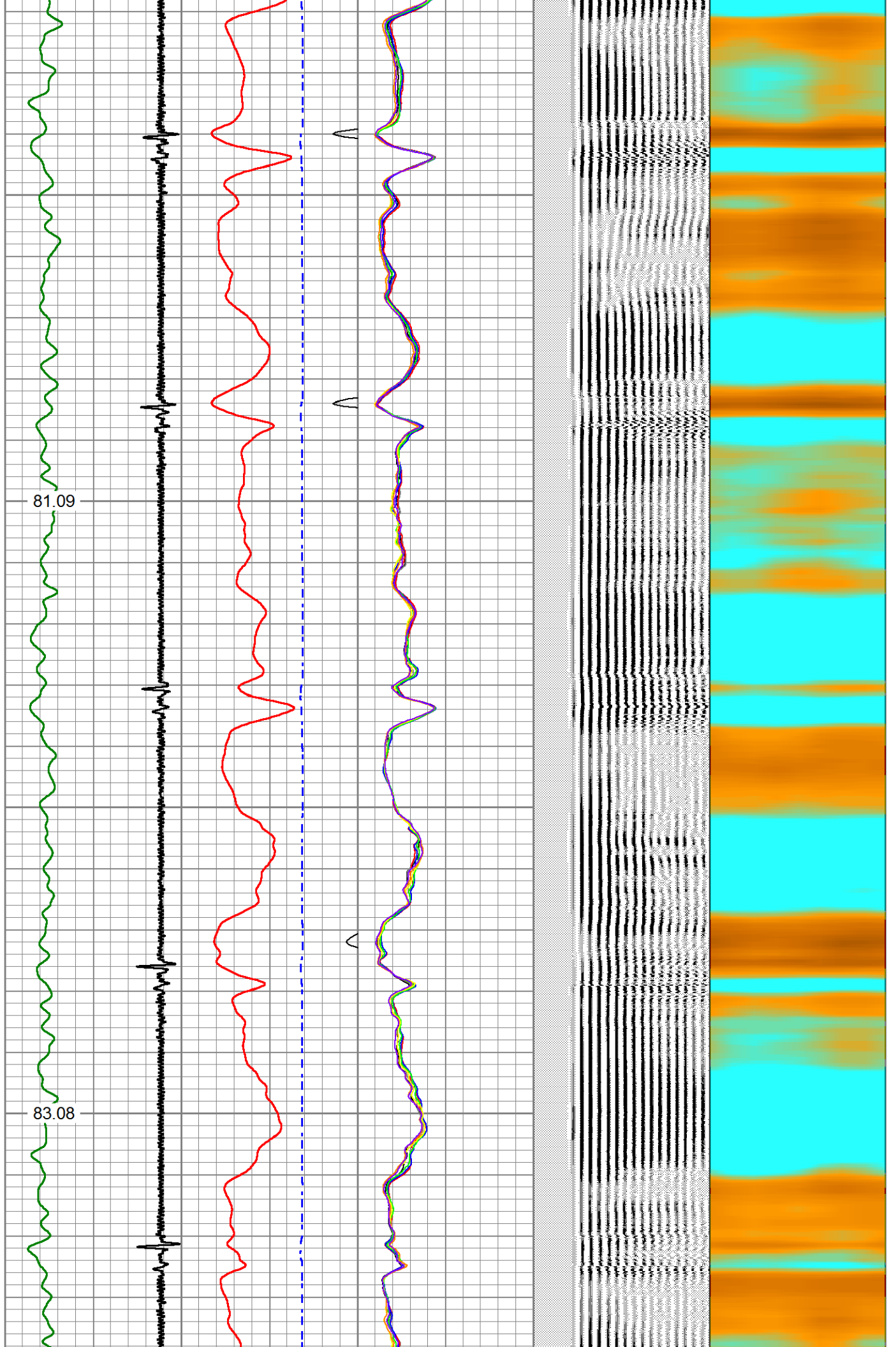
700

750

800

81.09

83.08



850

900

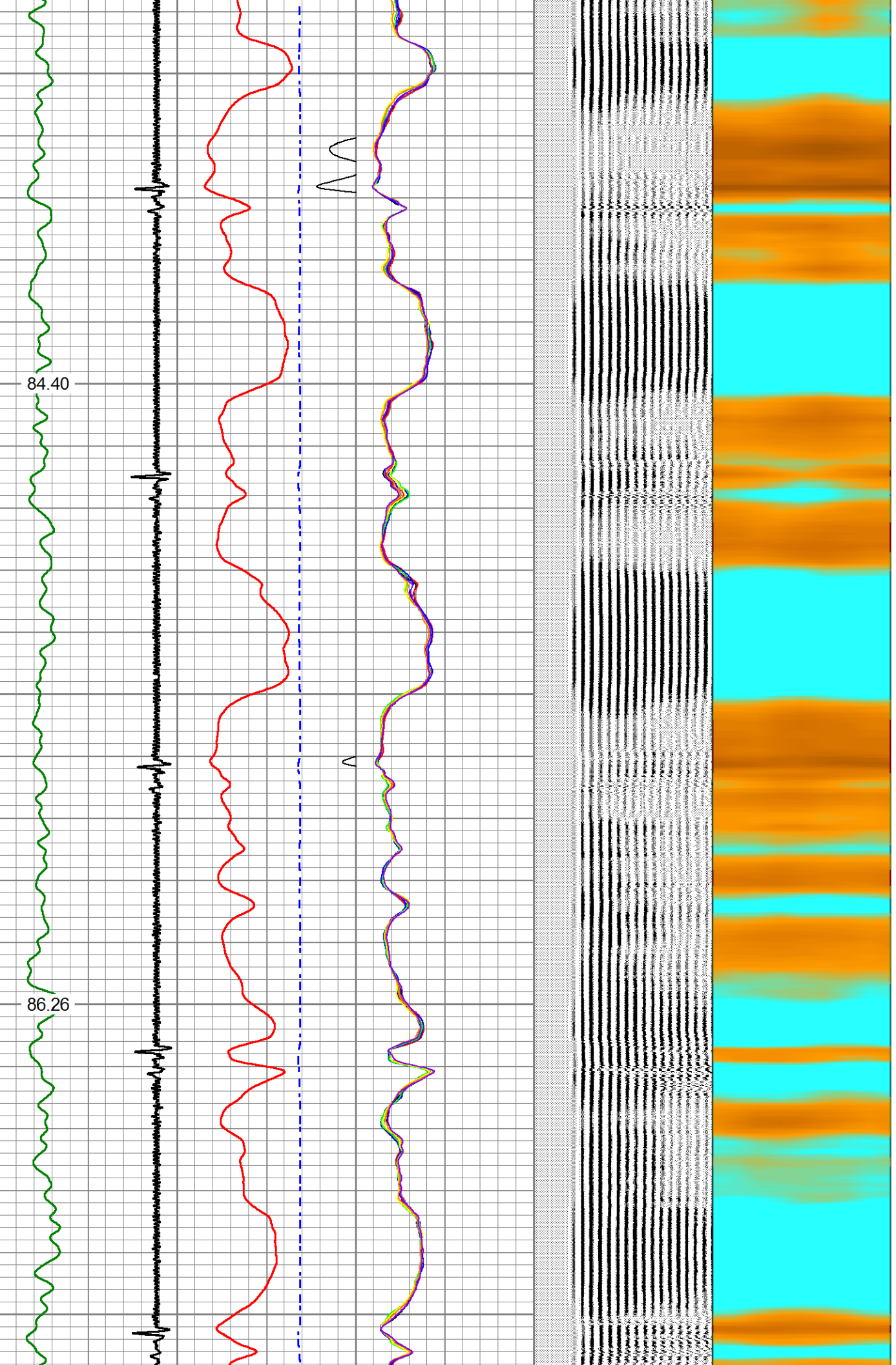
950

1000

1050

84.40

86.26



1100

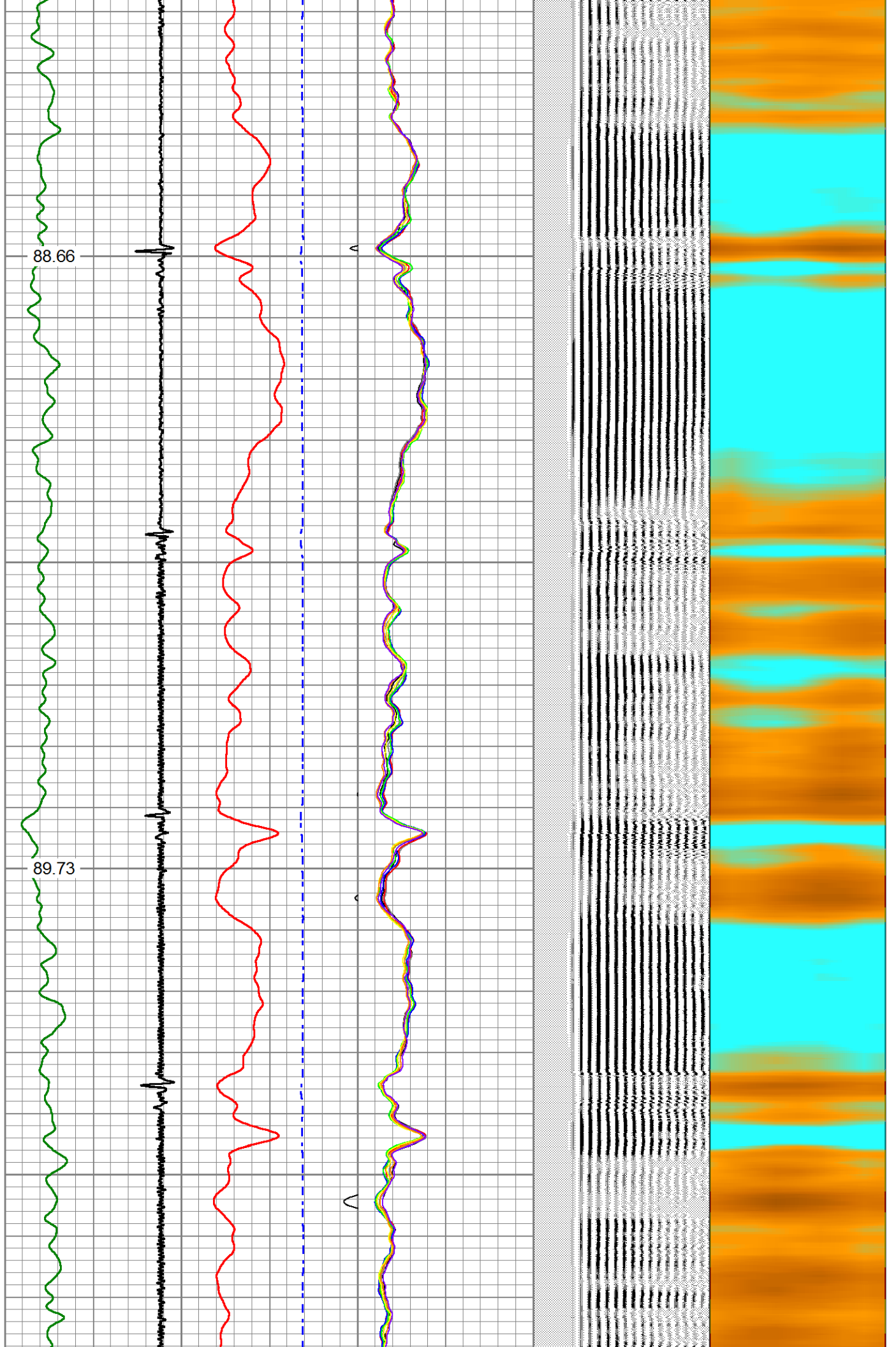
88.66

1150

1200

89.73

1250



1300

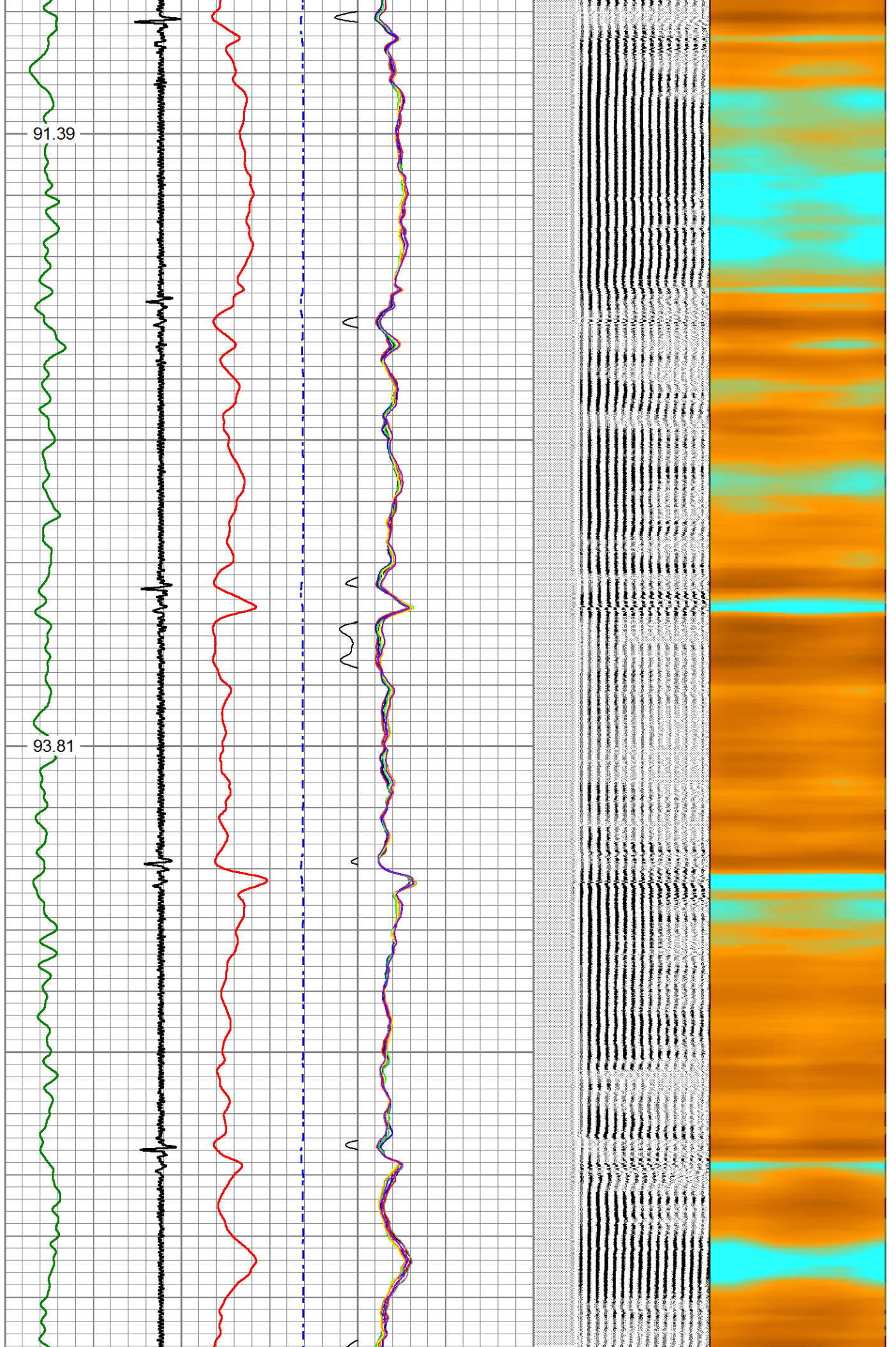
91.39

1350

1400

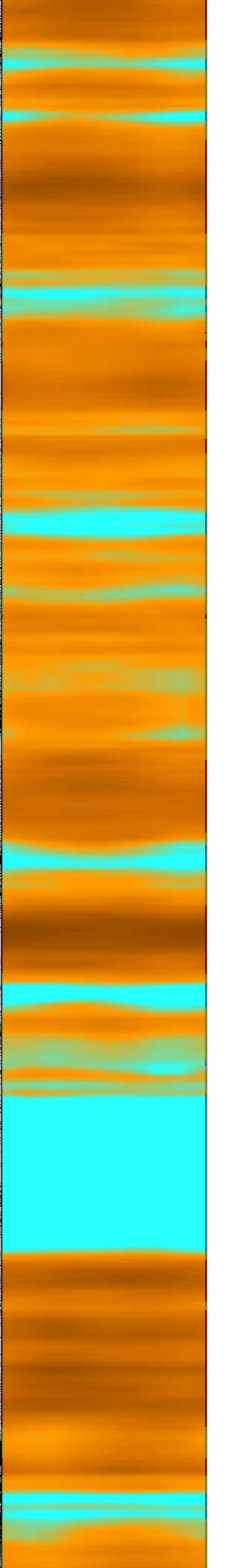
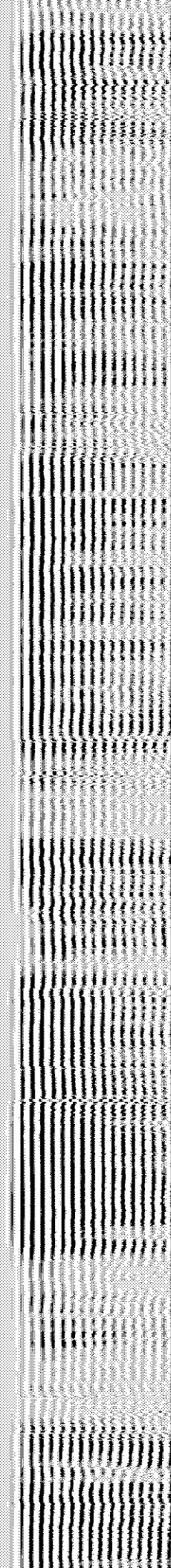
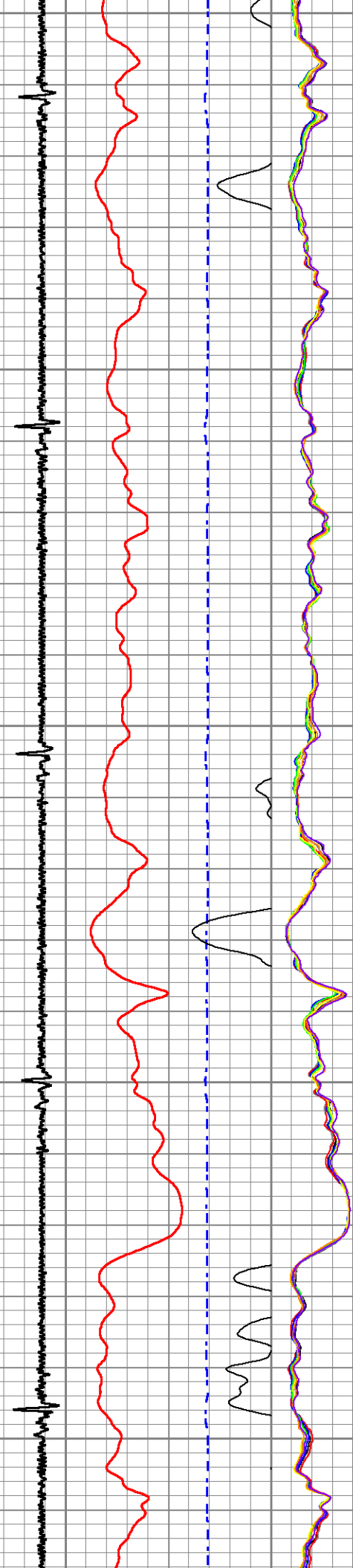
93.81

1450



1500  
1550  
1600  
1650  
1700

95.99  
97.28  
100.60

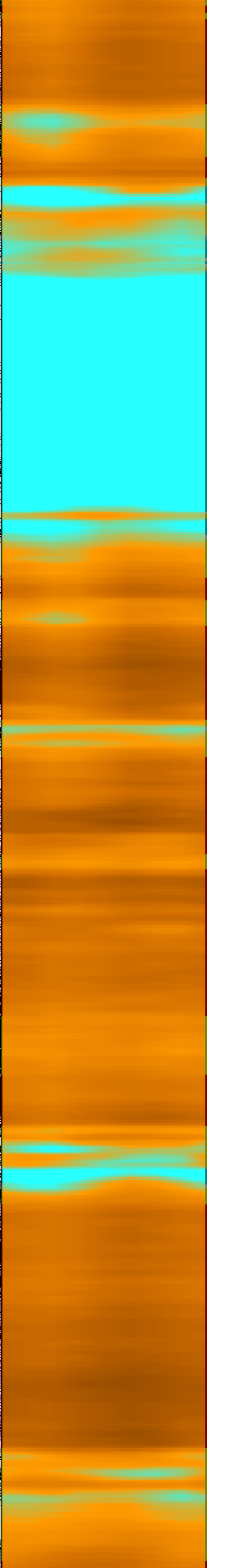
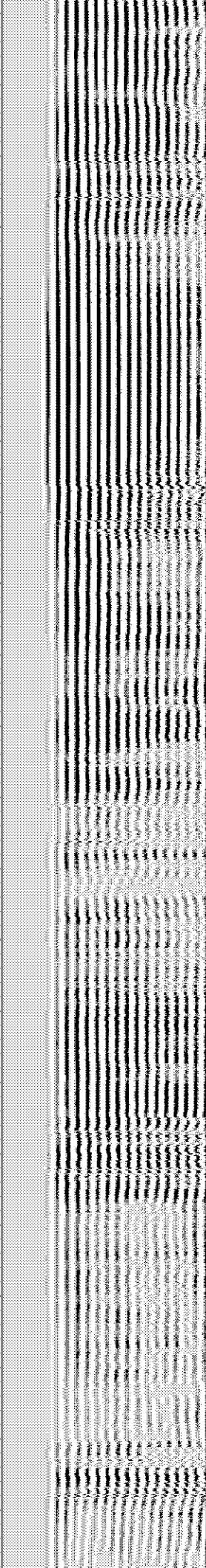
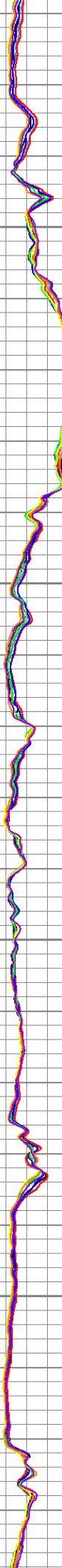
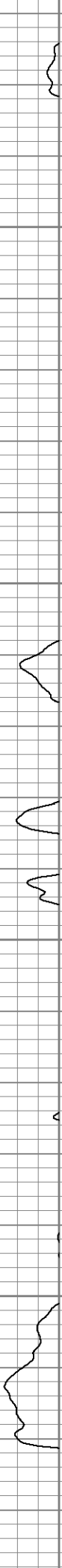
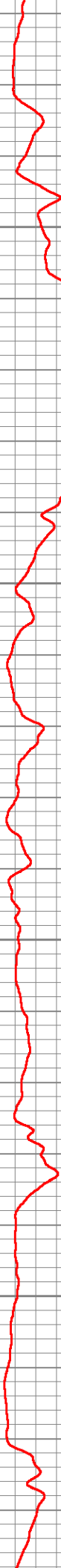
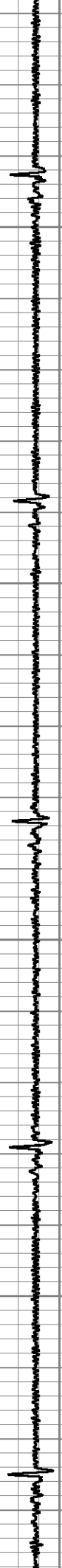
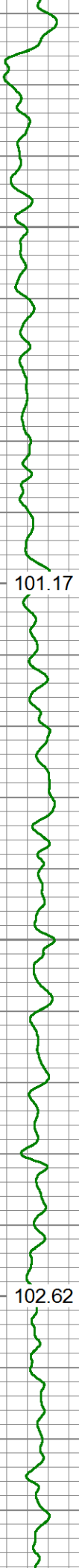


1750

1800

1850

1900



1950

2000

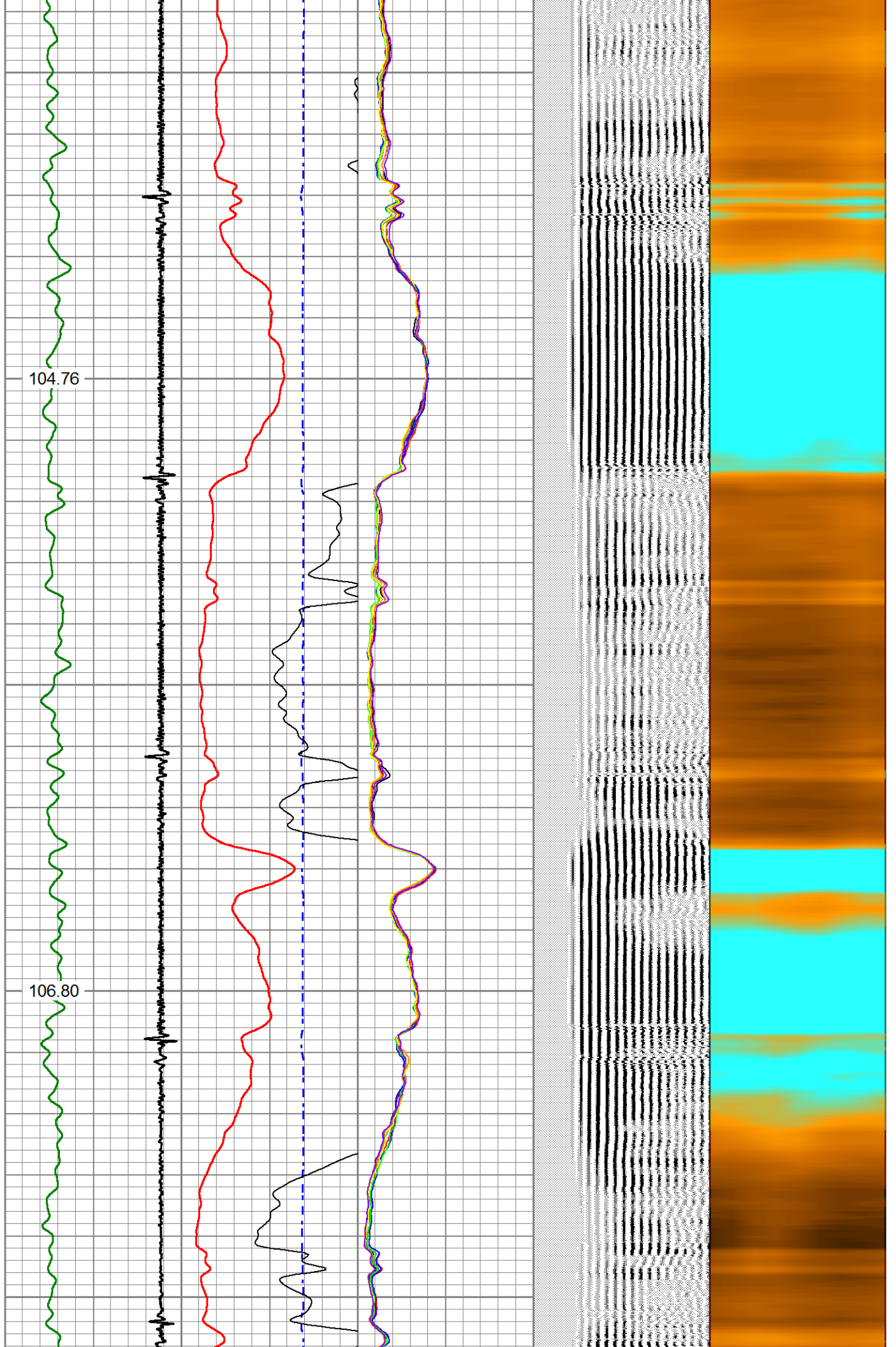
2050

2100

2150

104.76

106.80



2200

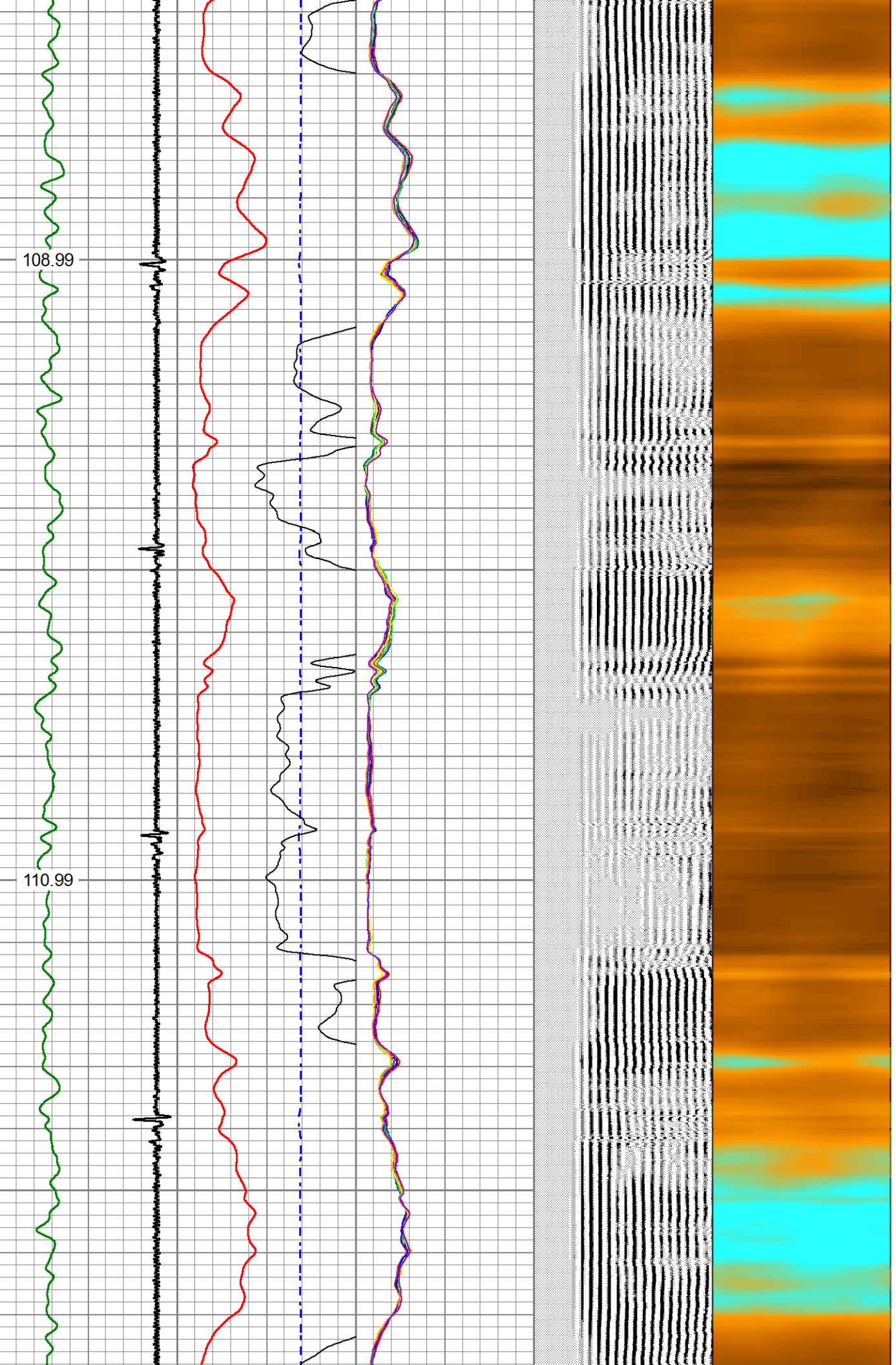
108.99

2250

2300

110.99

2350



2400

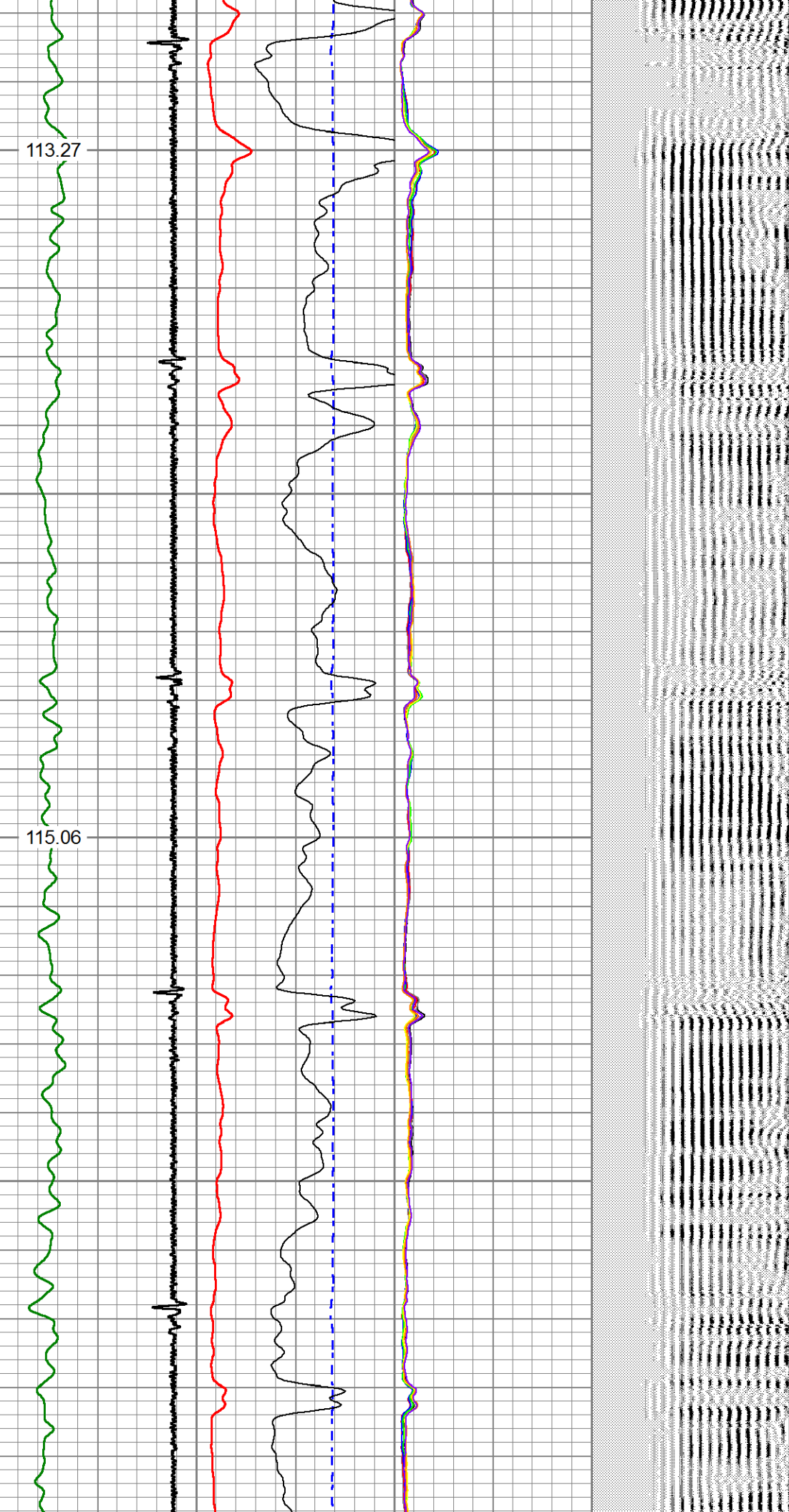
113.27

2450

2500

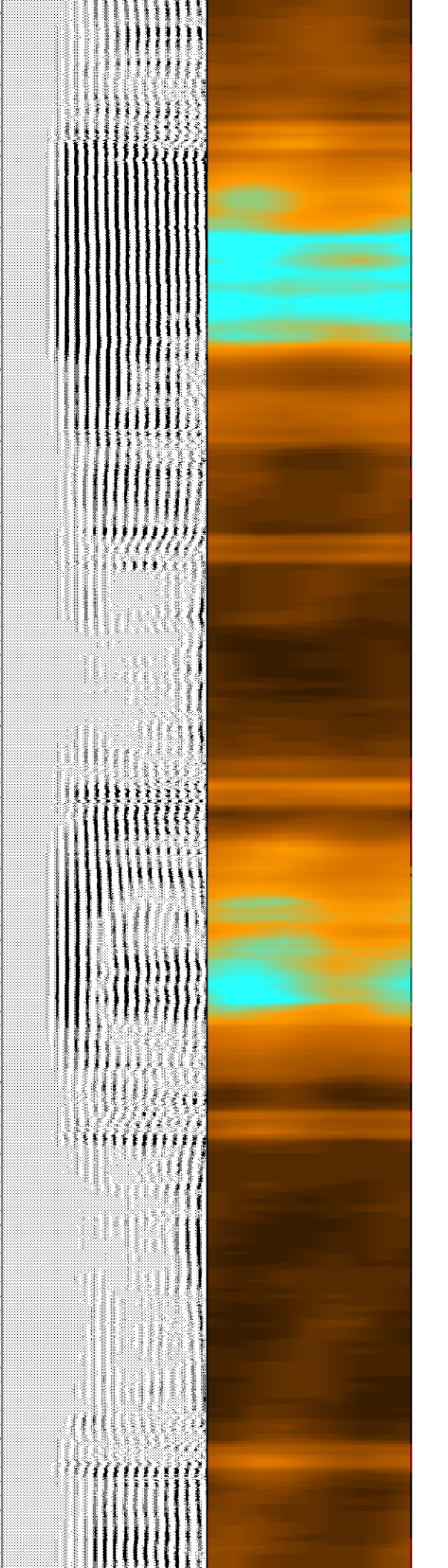
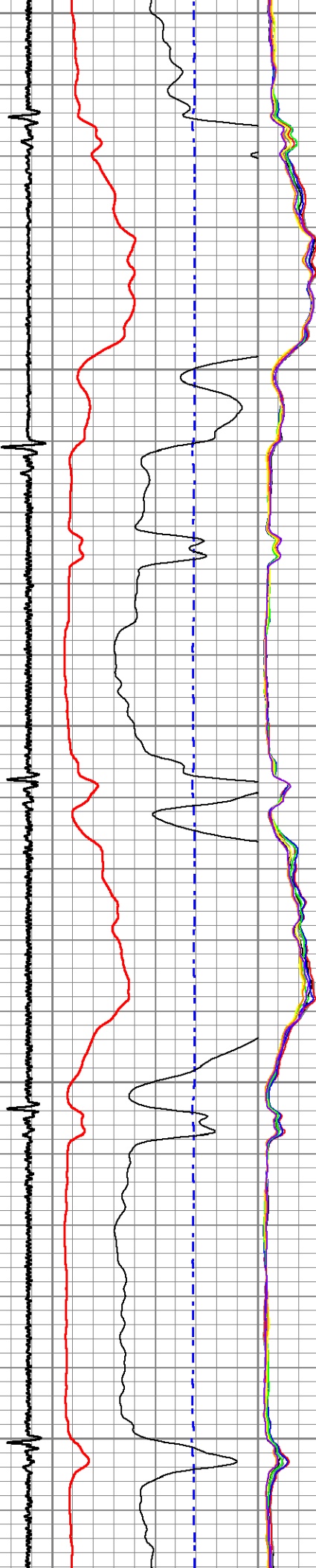
115.06

2550



2600  
2650  
2700  
2750  
2800

116.86  
118.92  
120.94



2850

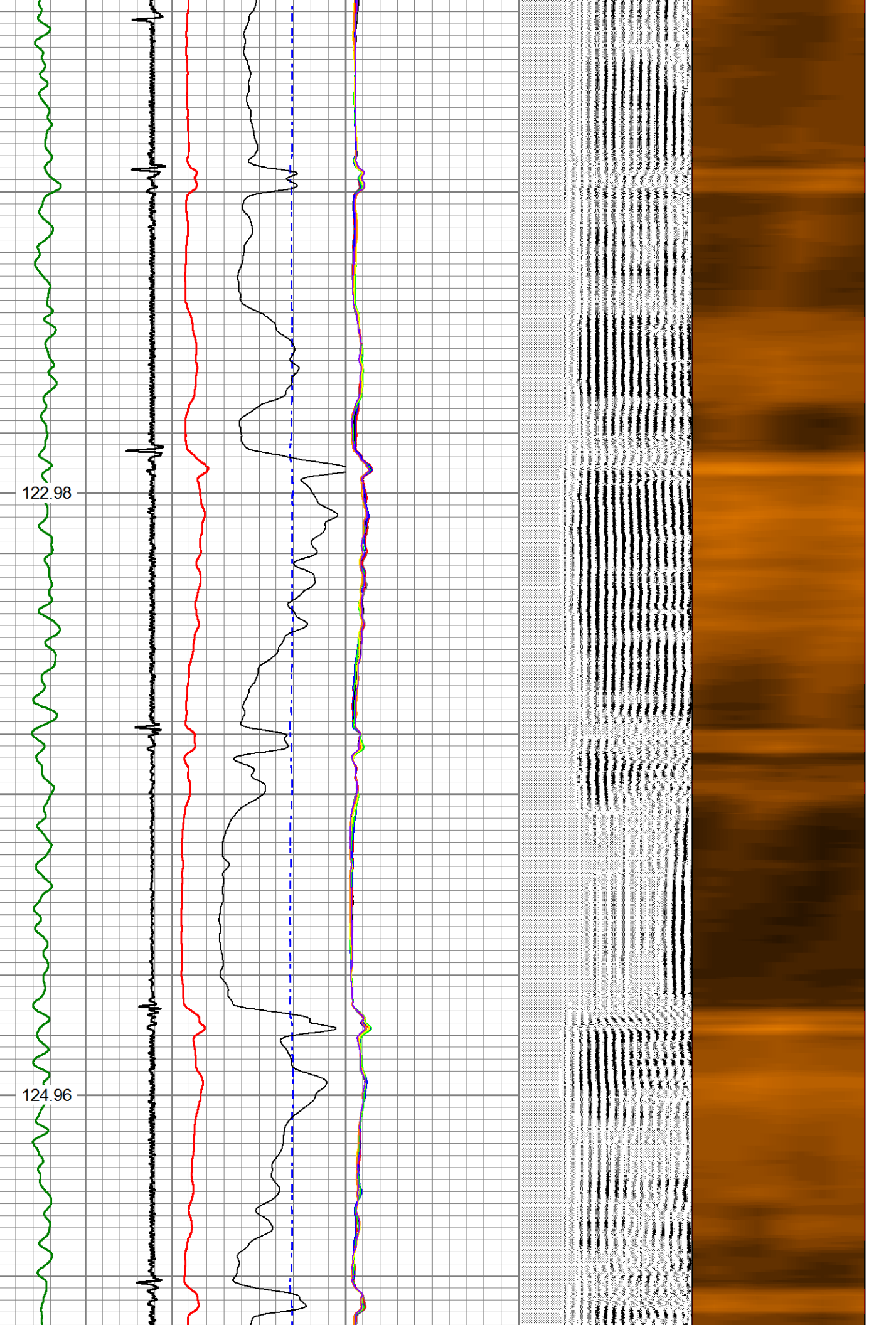
2900

2950

3000

122.98

124.96



3050

3100

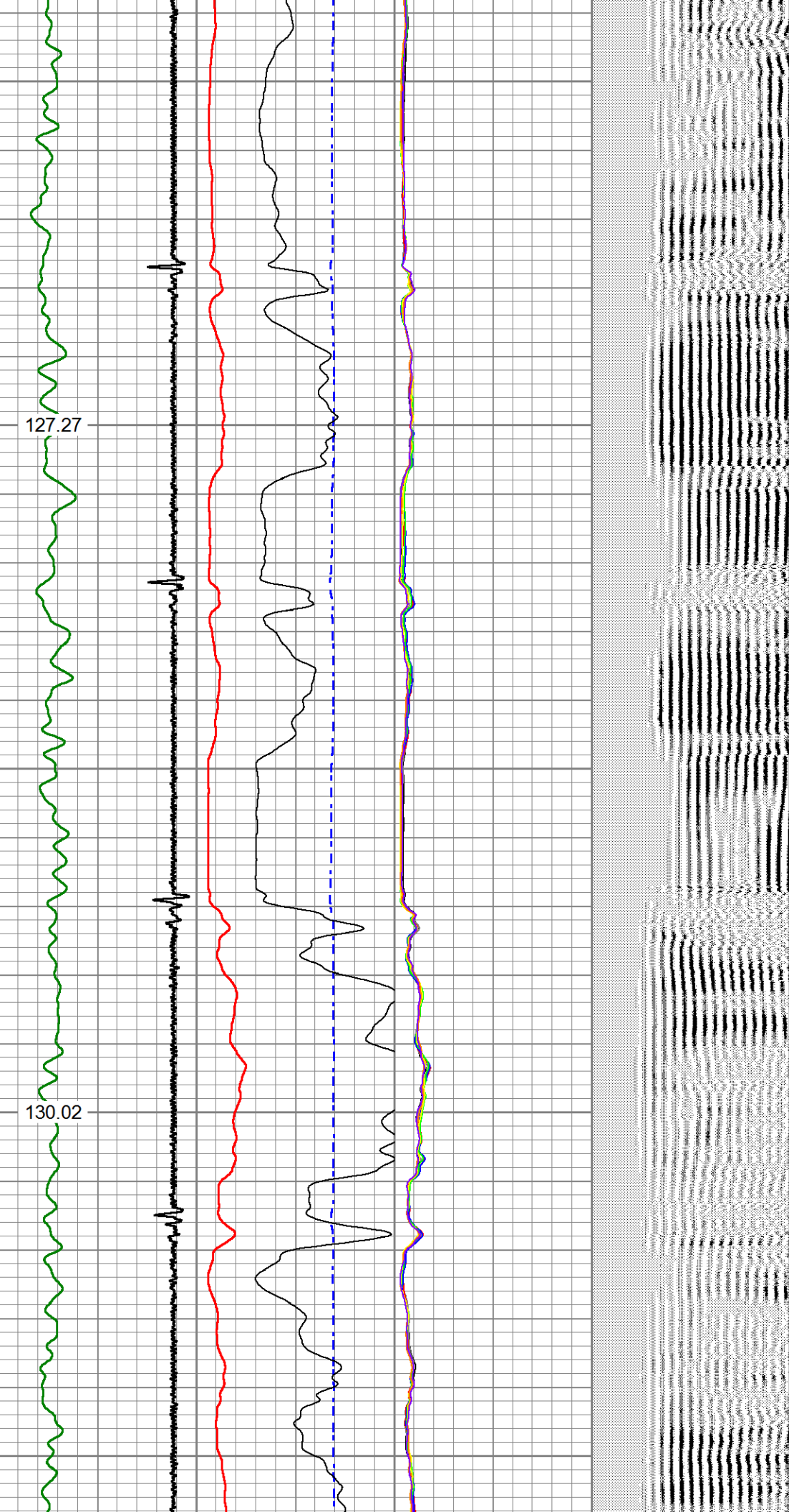
3150

3200

3250

127.27

130.02



3300

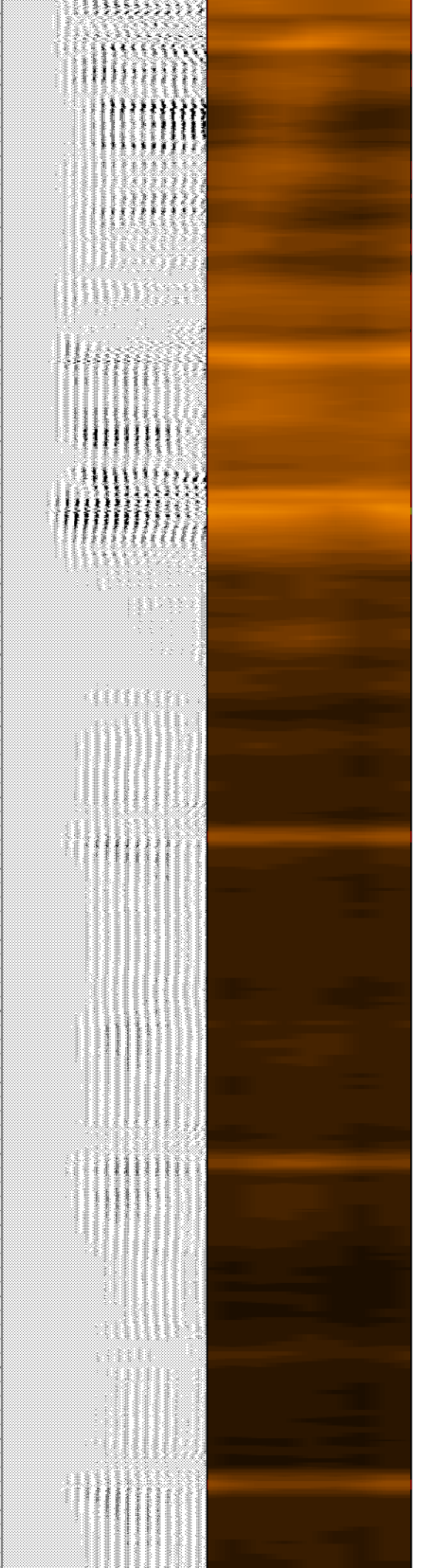
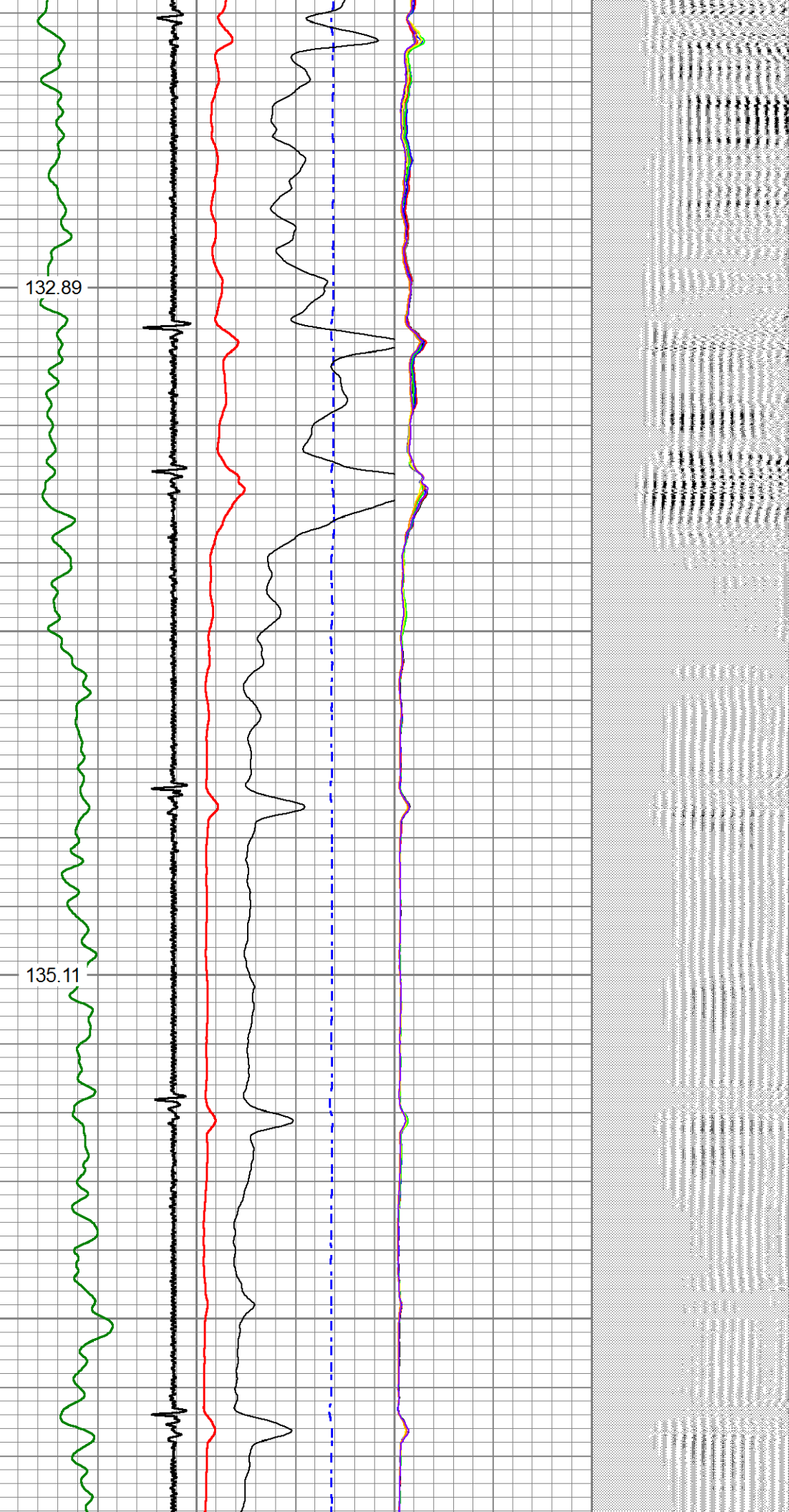
132.89

3350

3400

135.11

3450



3500

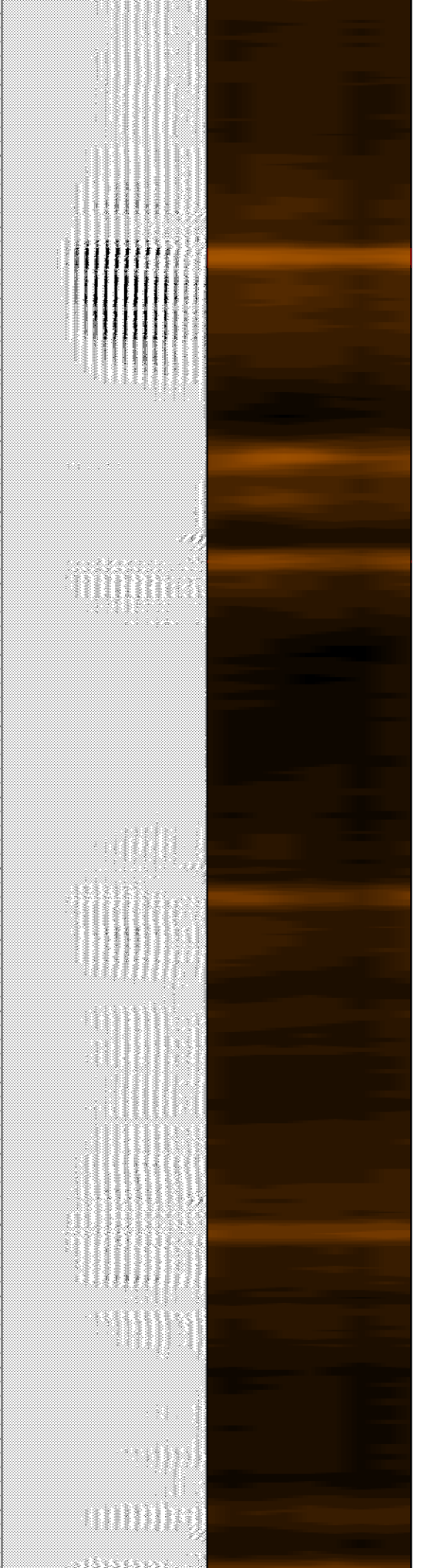
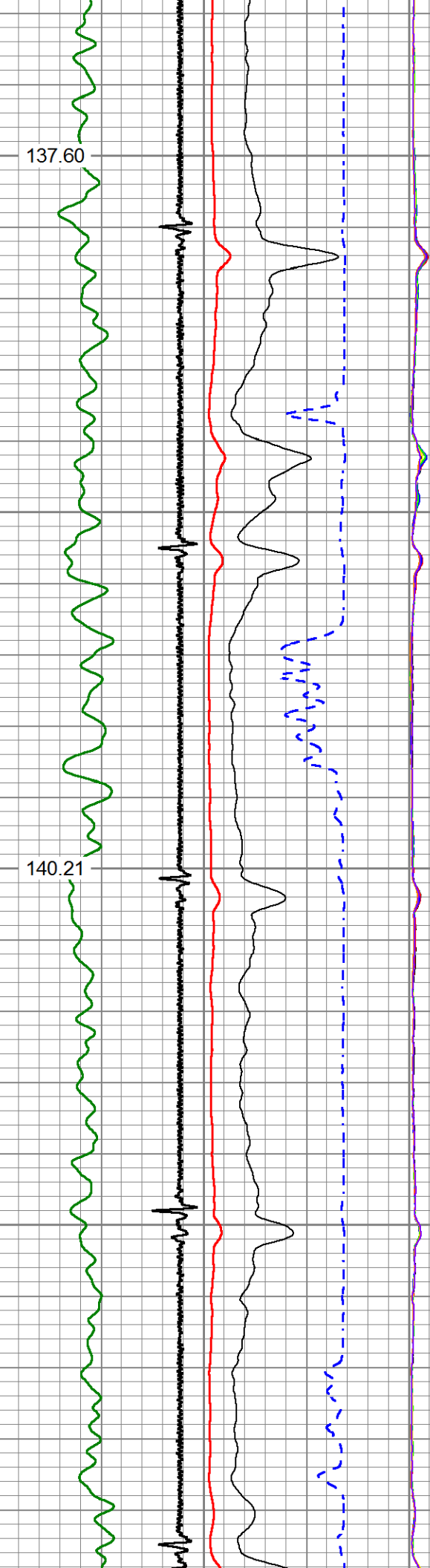
137.60

3550

3600

140.21

3650



3700

142.92

3750

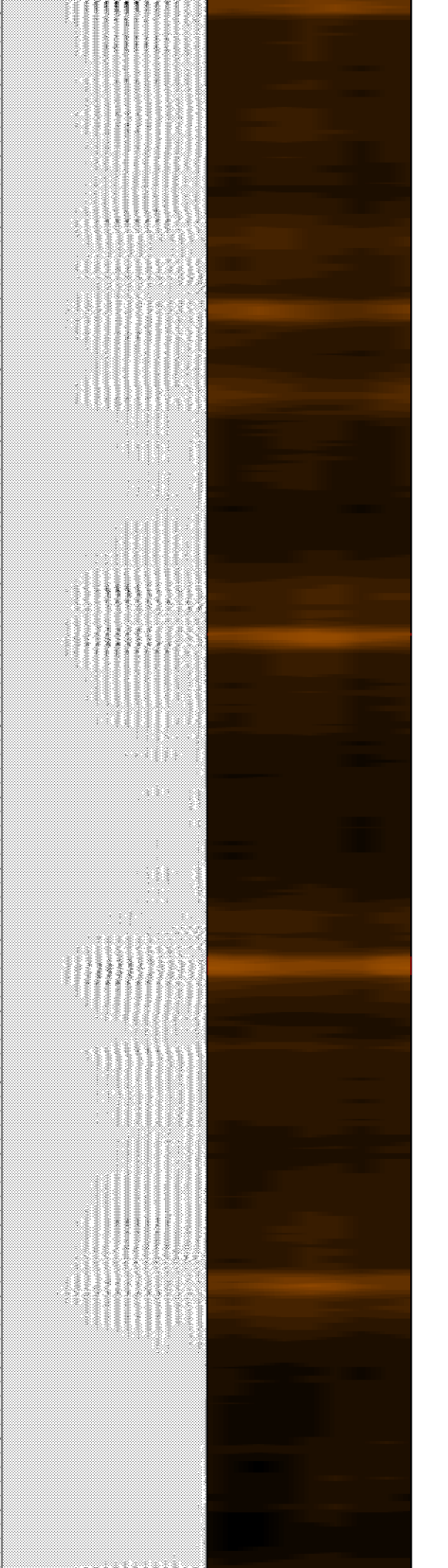
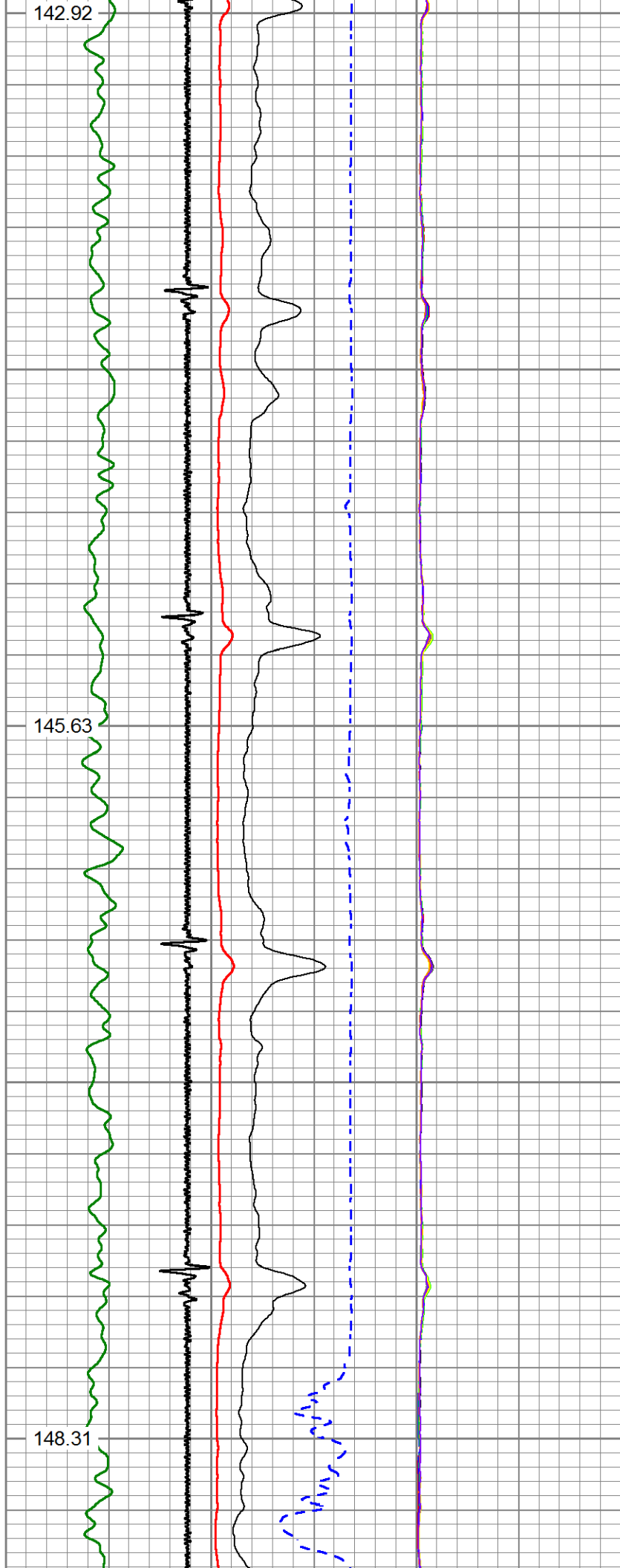
3800

145.63

3850

3900

148.31



3950

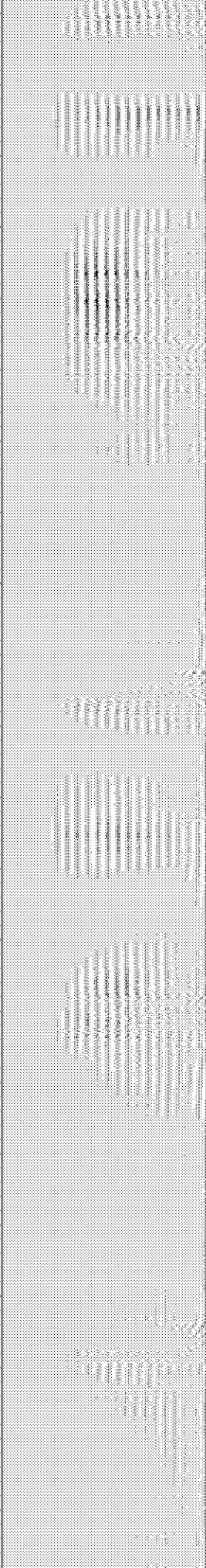
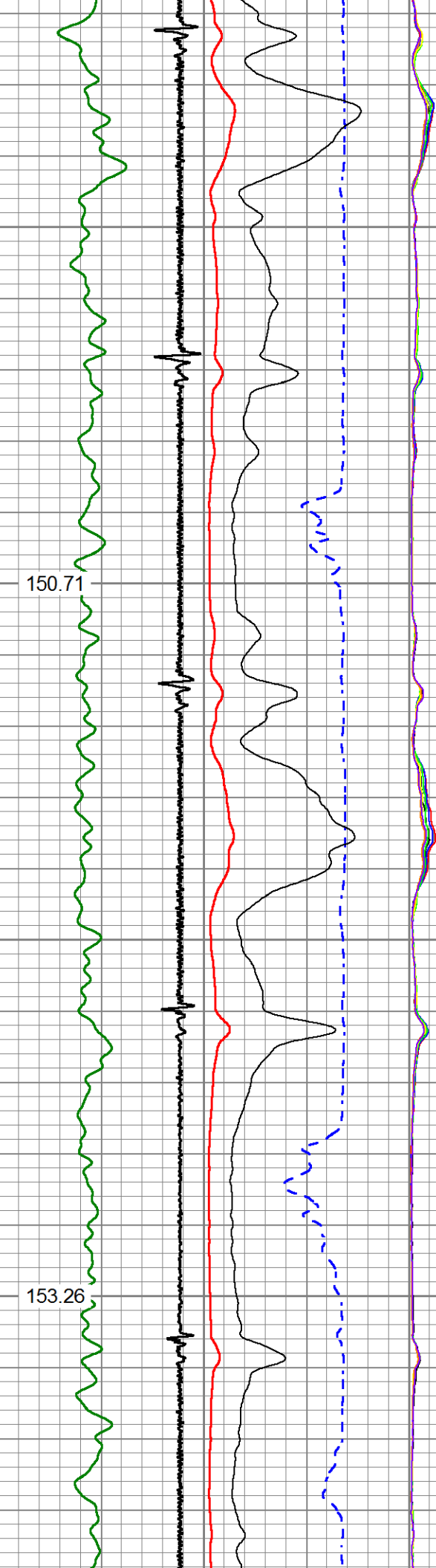
4000

4050

4100

150.71

153.26



4150

4200

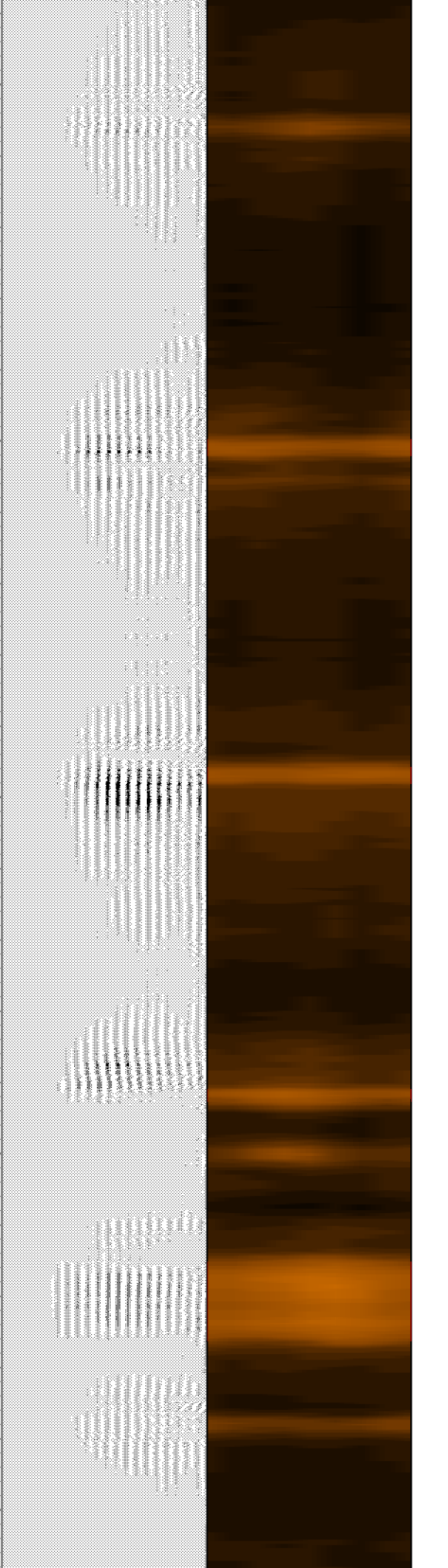
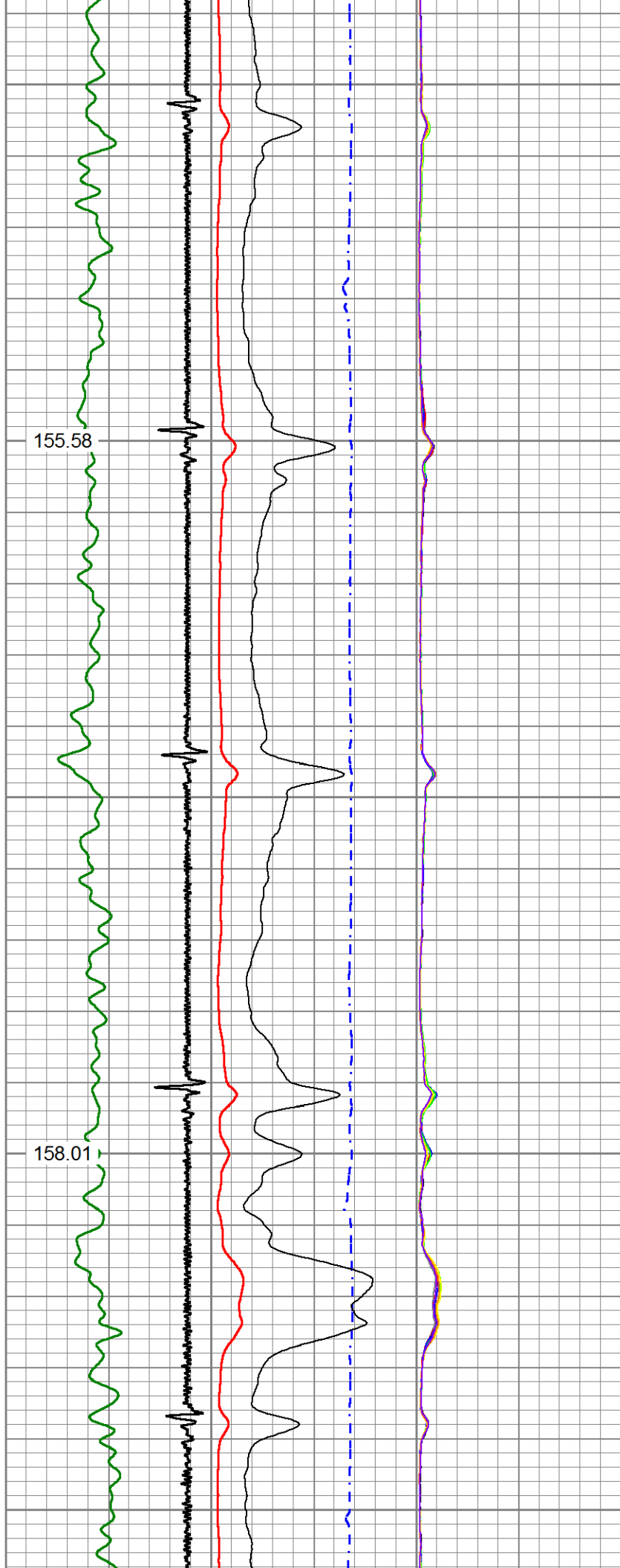
4250

4300

4350

155.58

158.01



4400

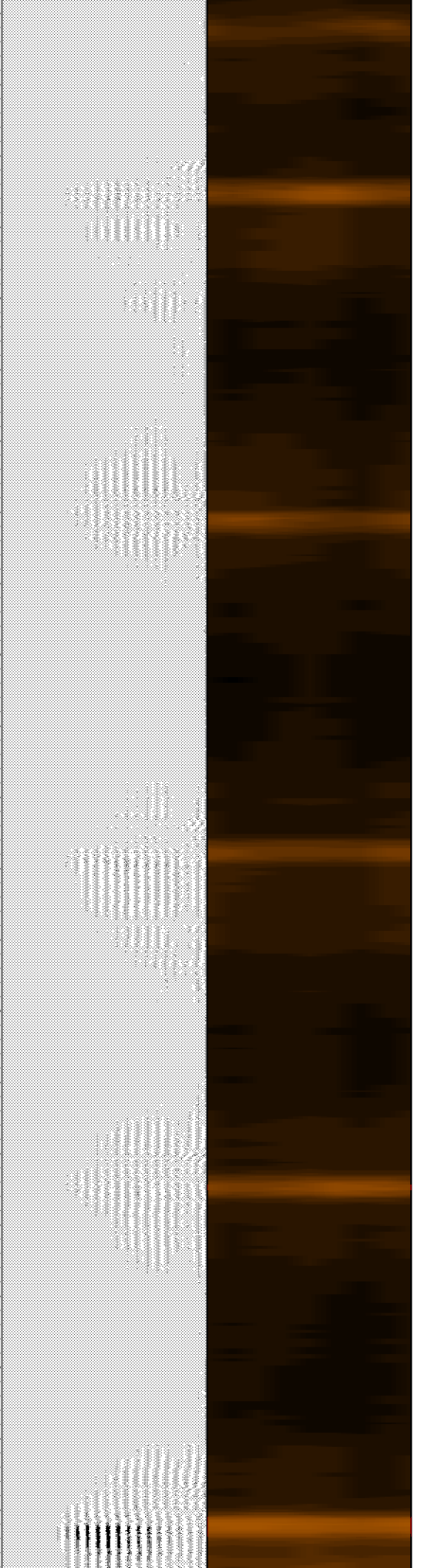
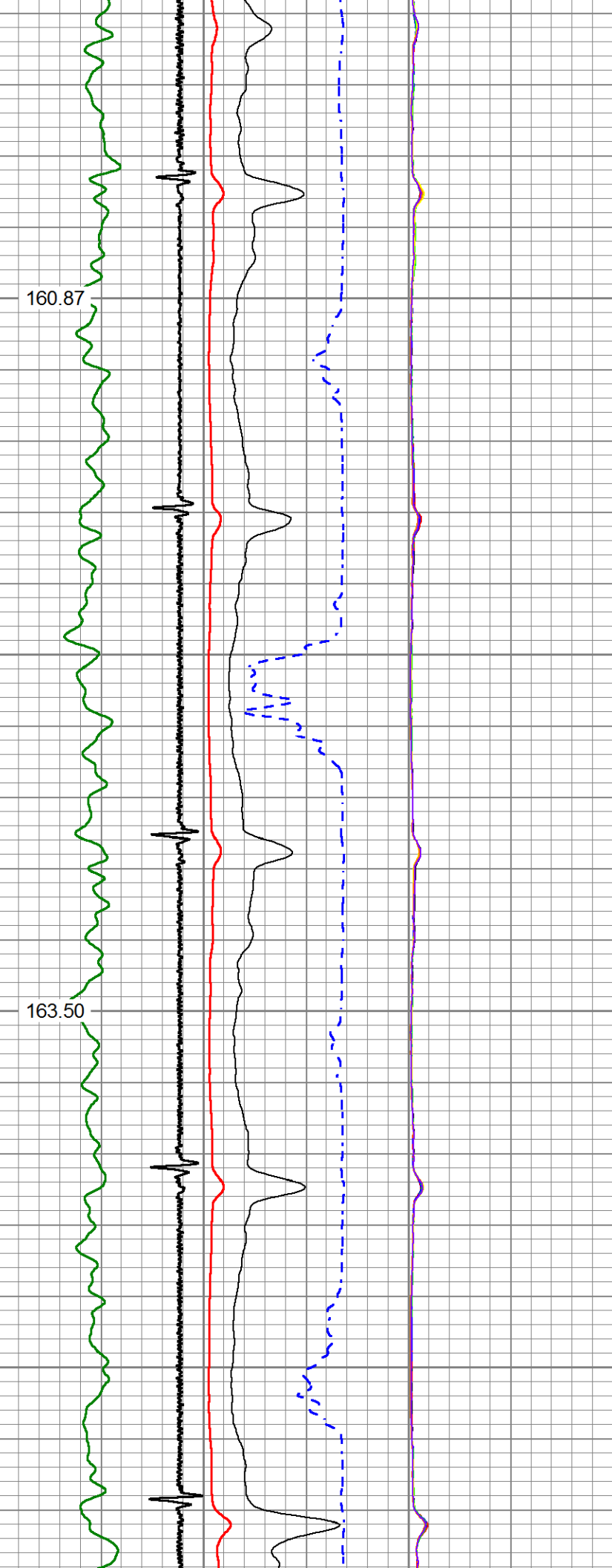
160.87

4450

4500

163.50

4550



4600

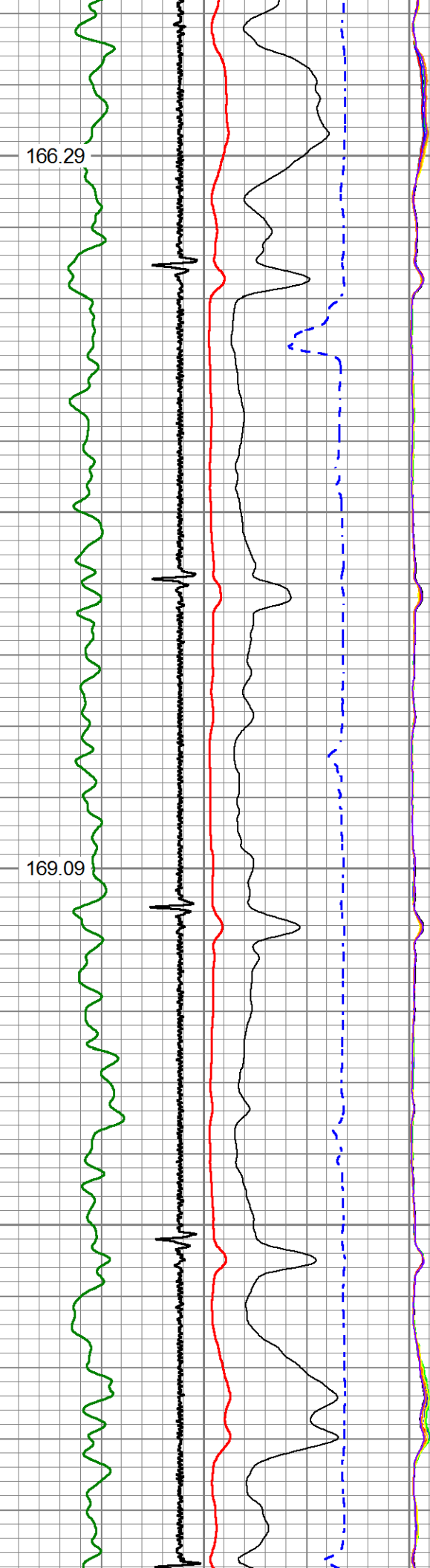
166.29

4650

4700

169.09

4750



166.29

169.09

166.29

169.09

166.29

169.09

4800

171.89

4850

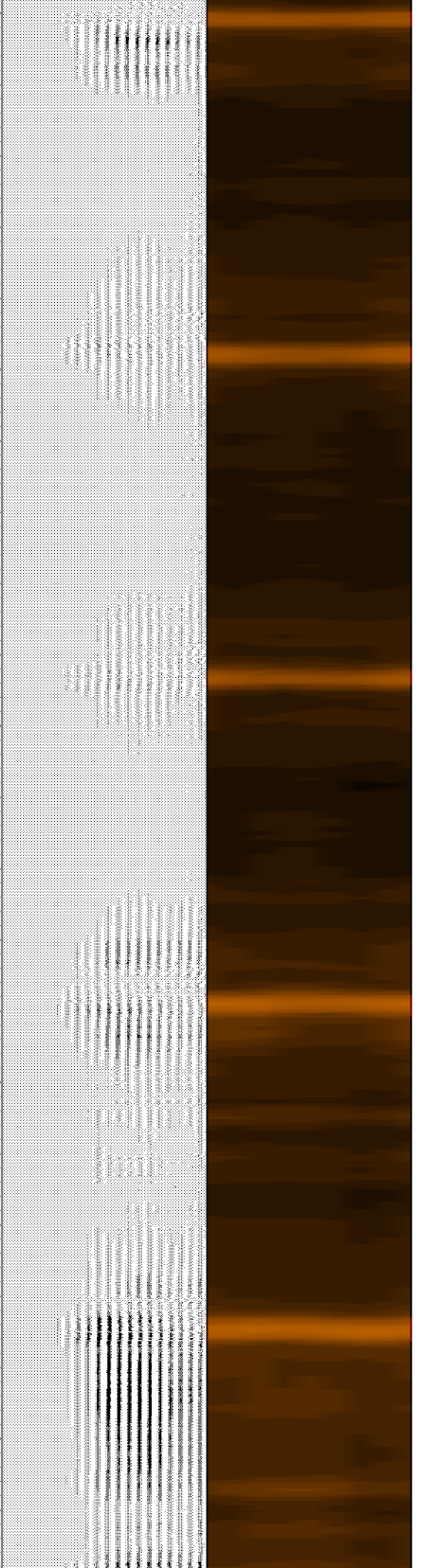
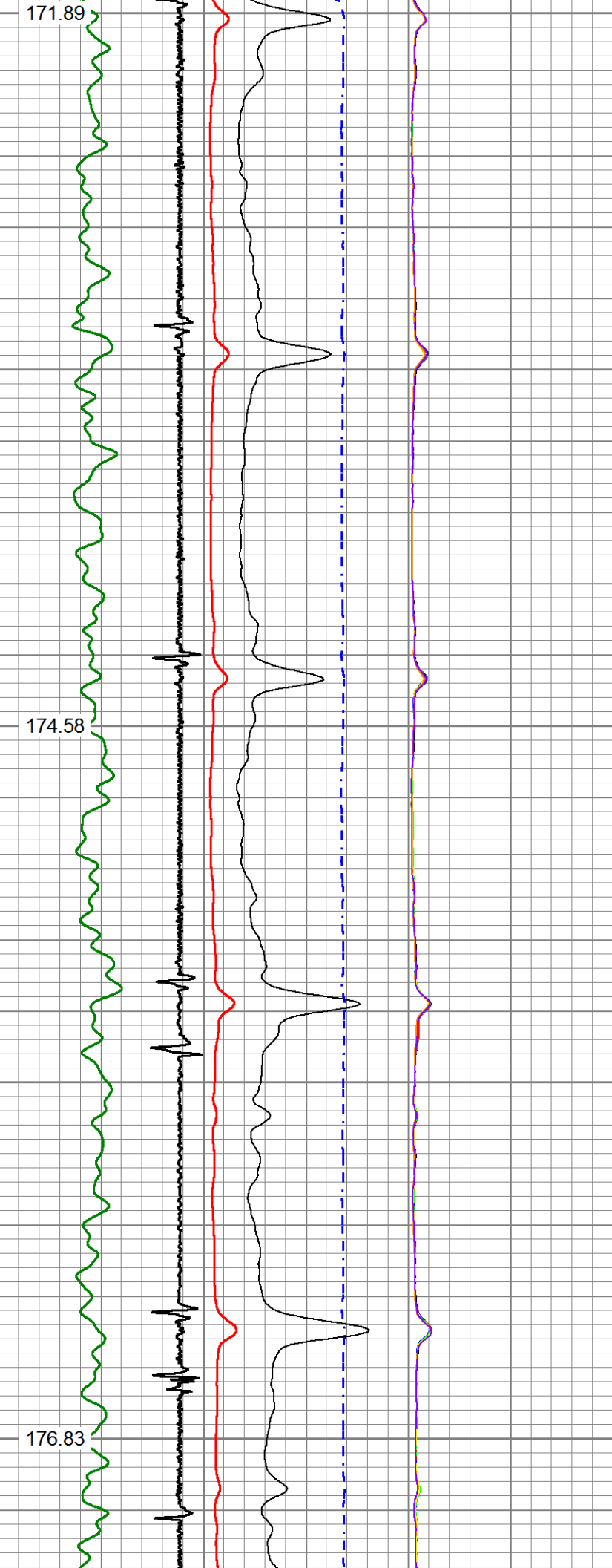
4900

174.58

4950

5000

176.83



5050

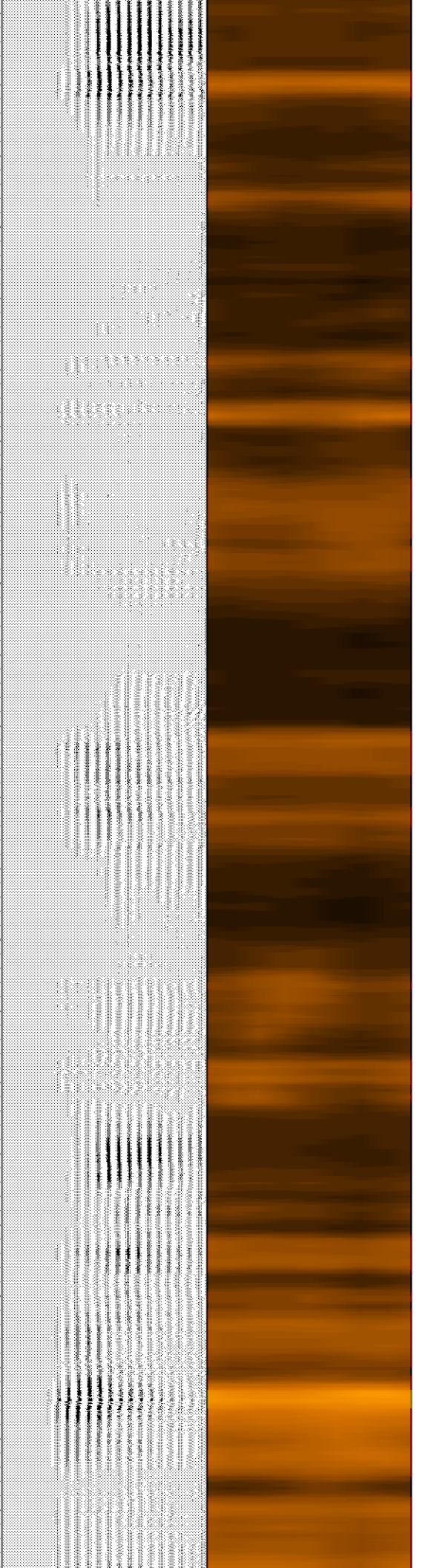
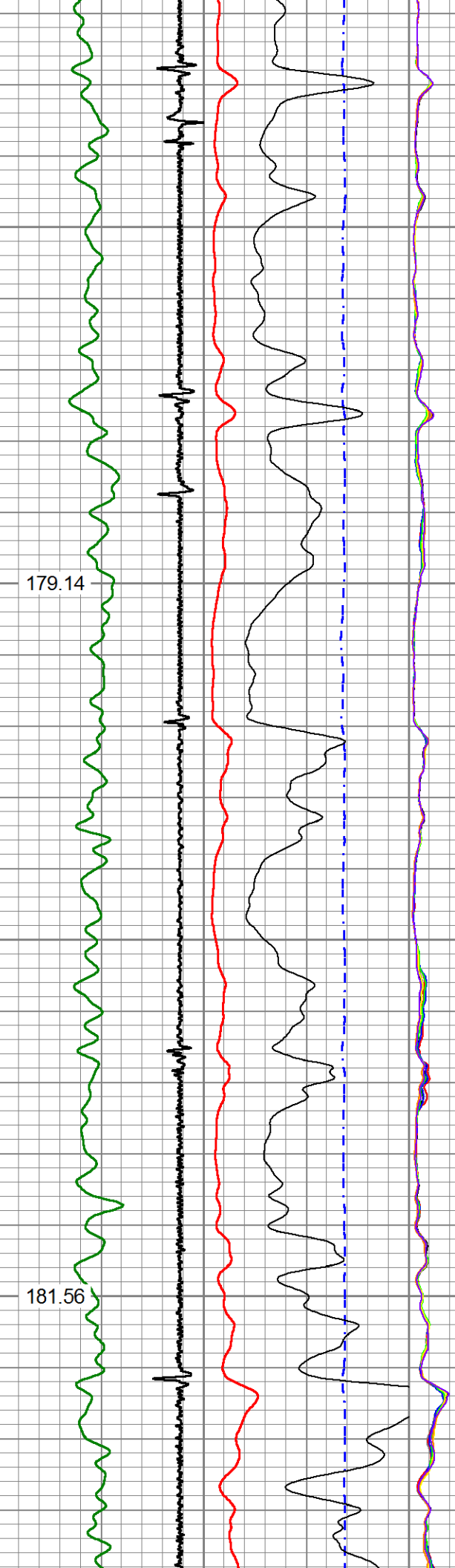
5100

5150

5200

179.14

181.56



5250

5300

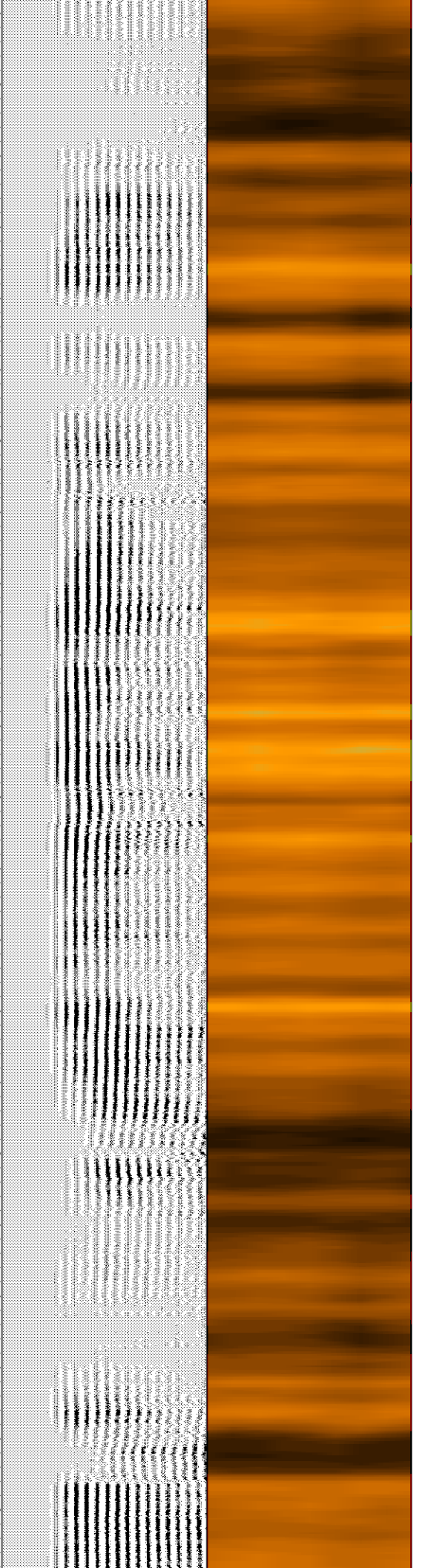
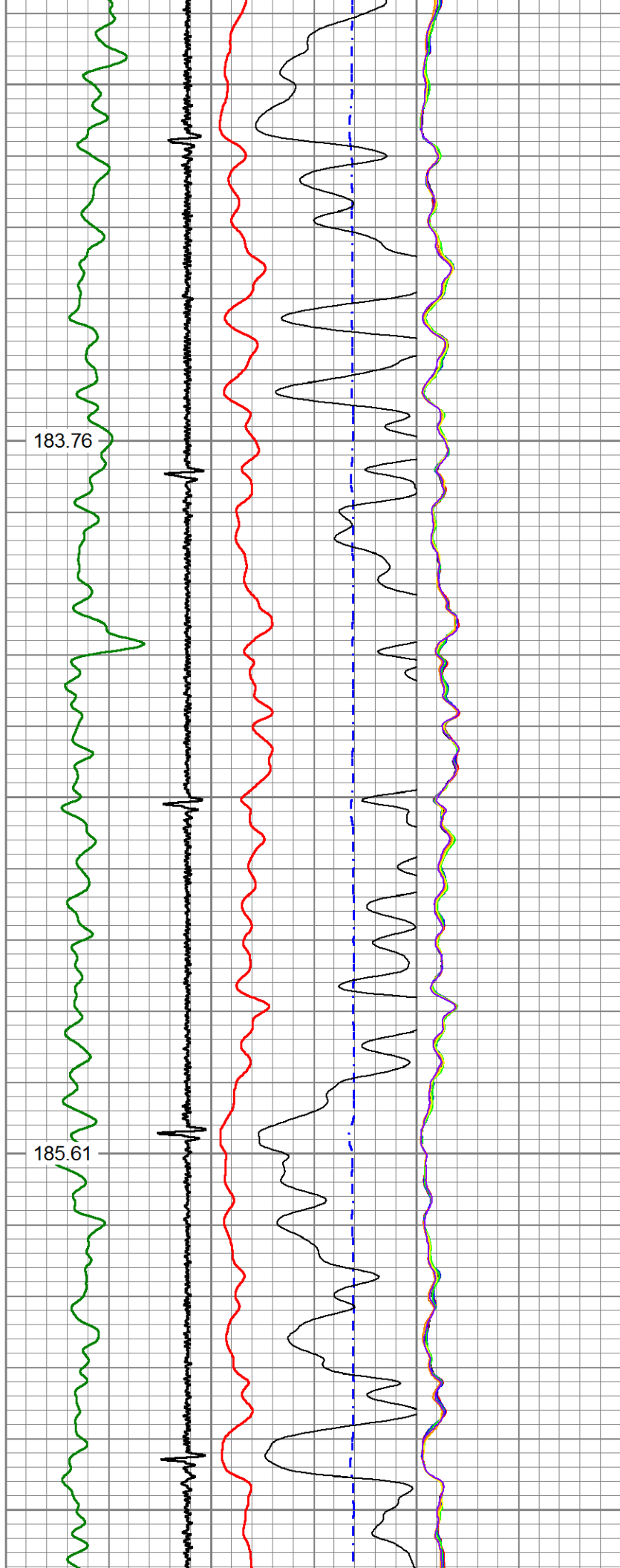
5350

5400

5450

183.76

185.61



5500

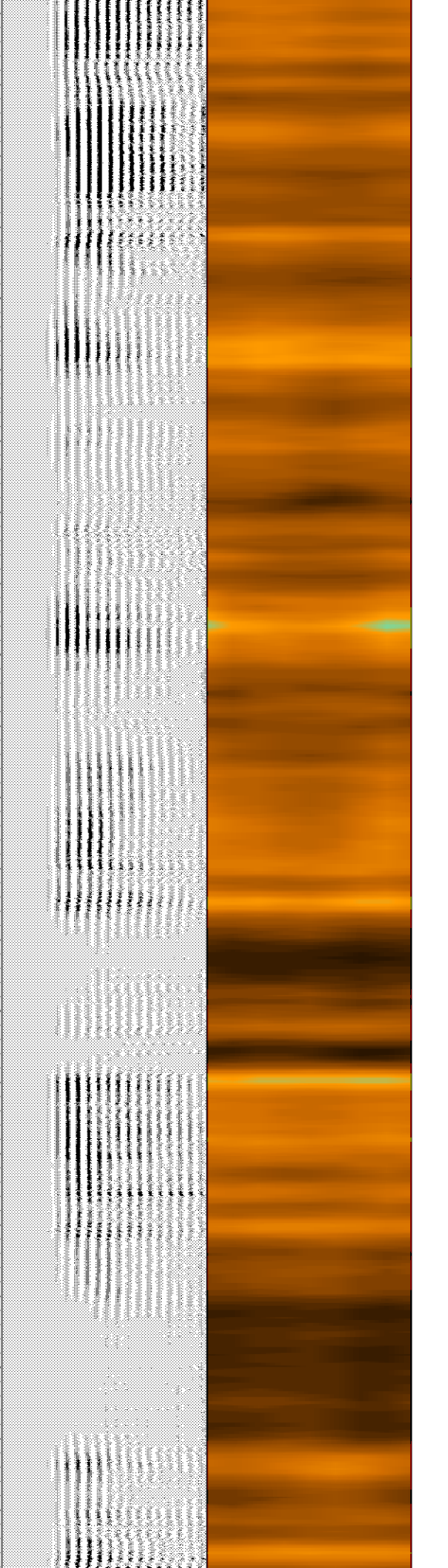
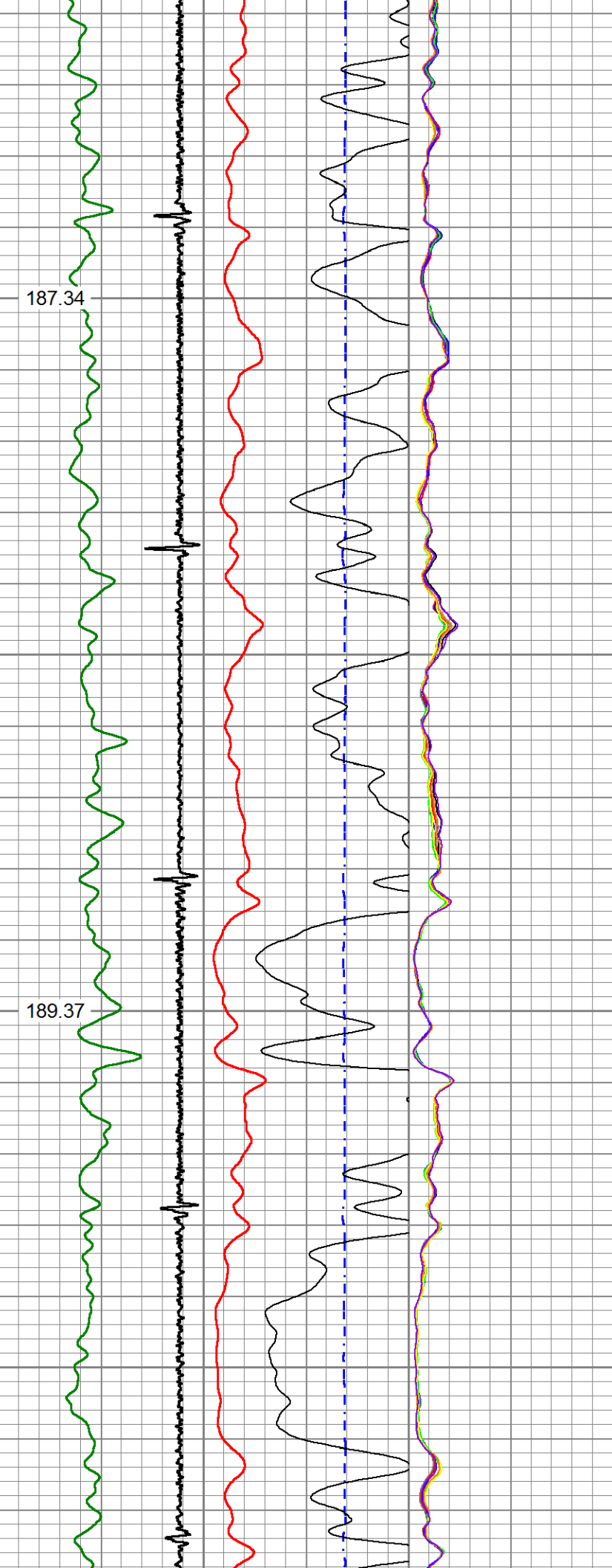
187.34

5550

5600

189.37

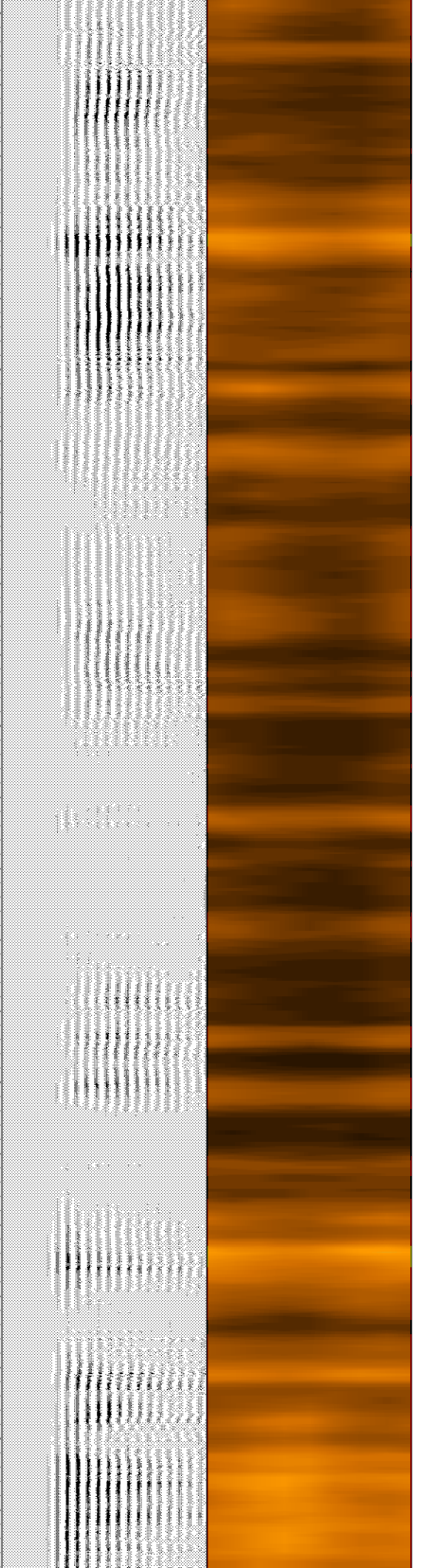
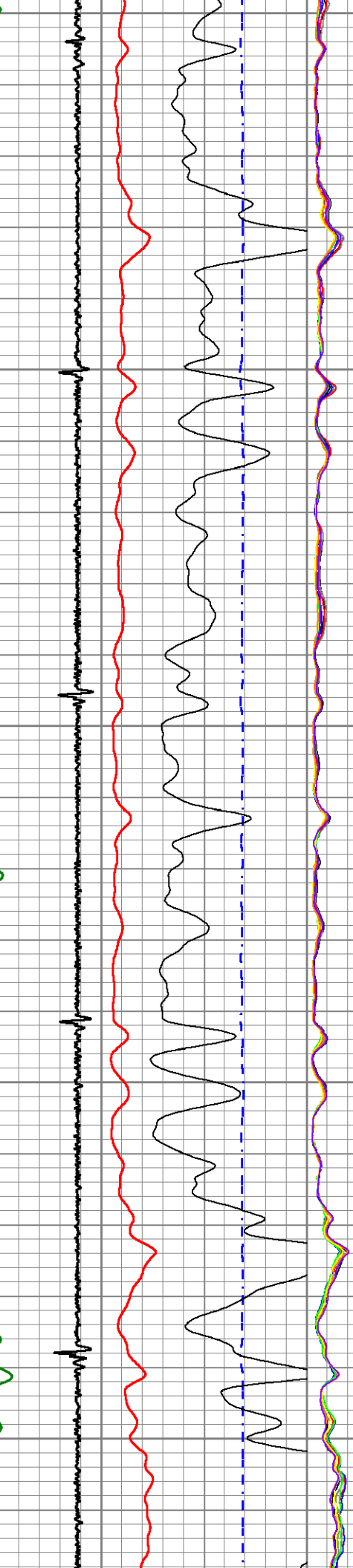
5650





5900  
5950  
6000  
6050  
6100

195.77  
198.24  
200.65



6150

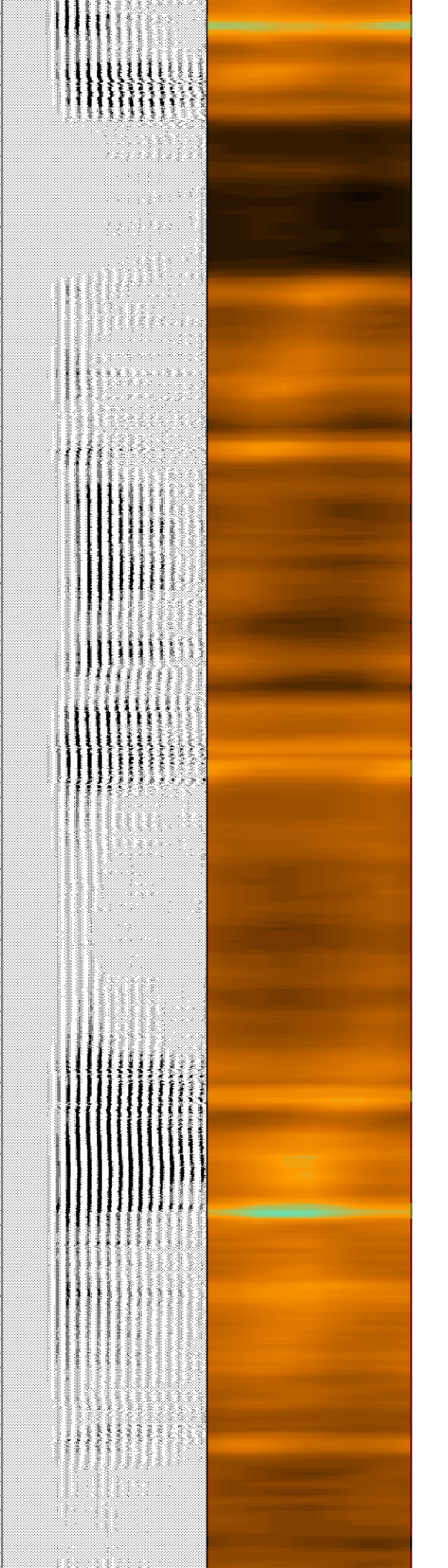
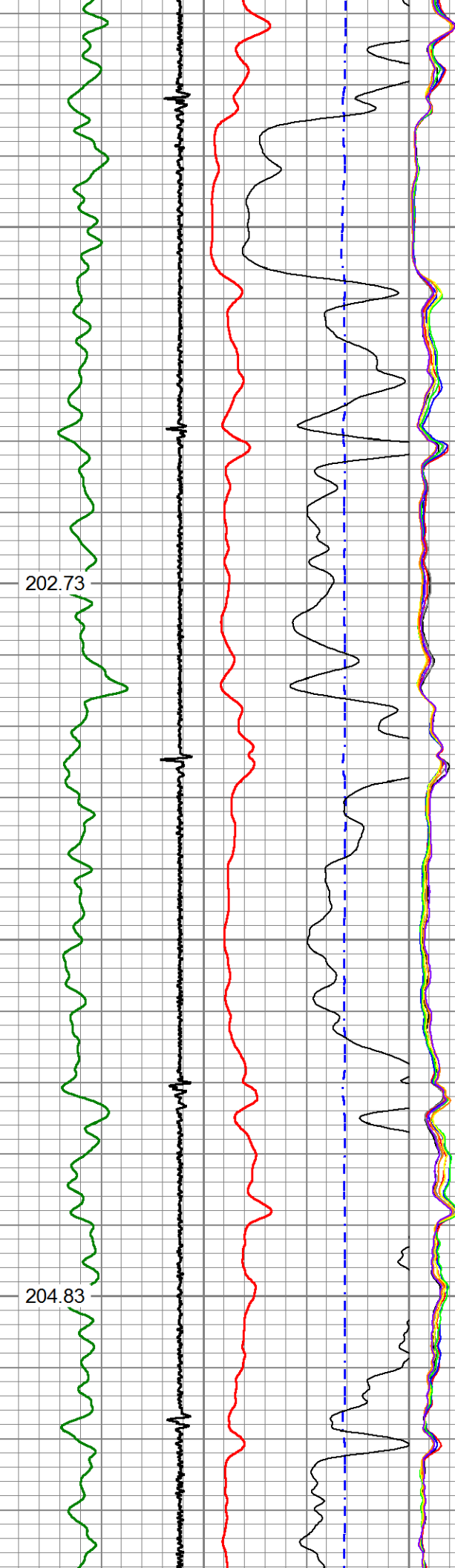
6200

6250

6300

202.73

204.83



6350

6400

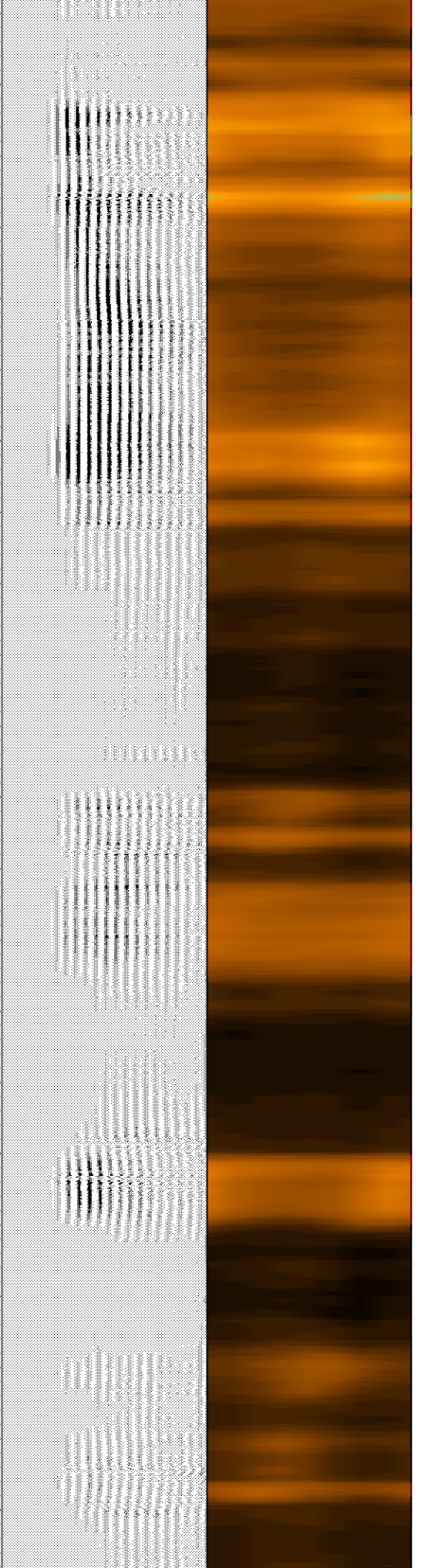
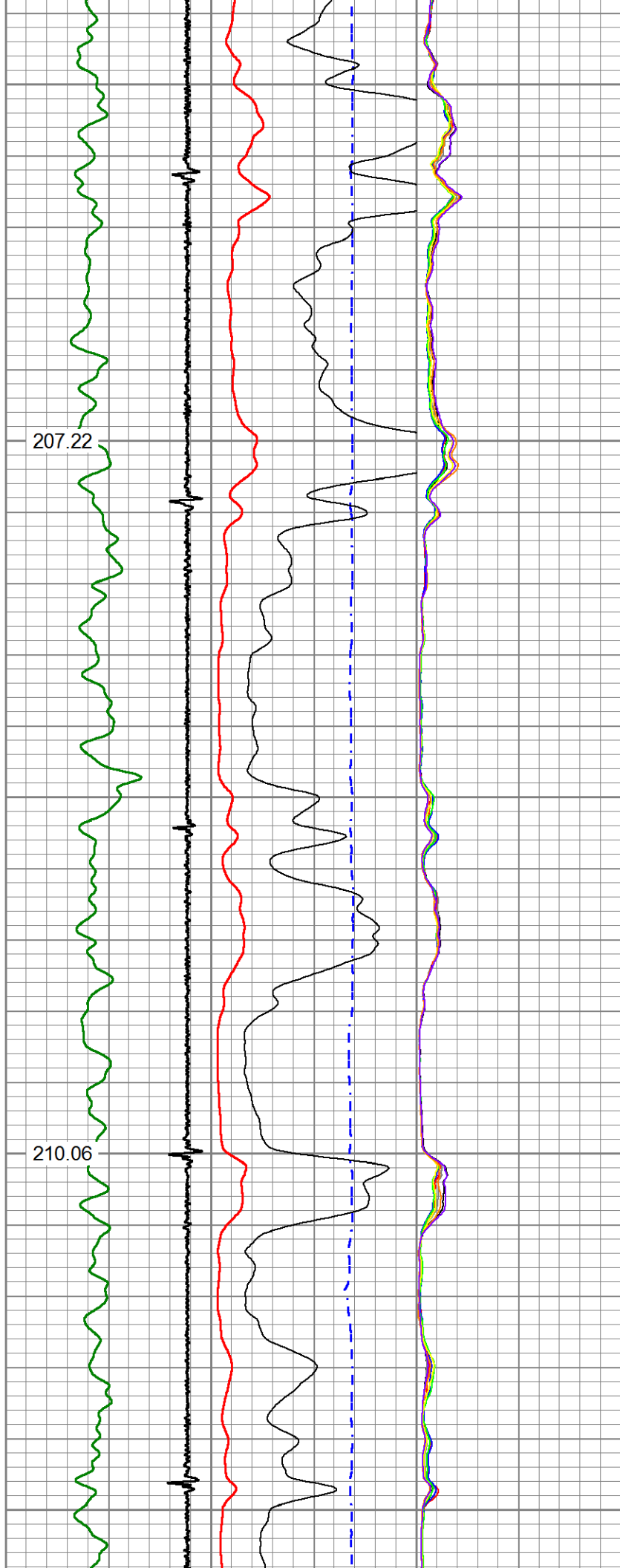
6450

6500

6550

207.22

210.06



6600

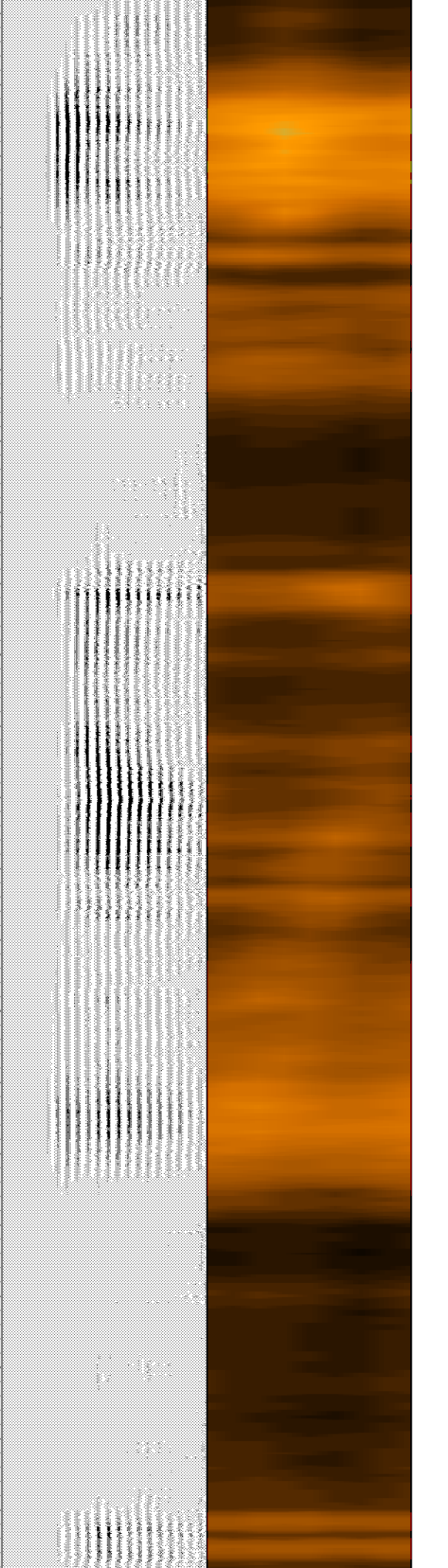
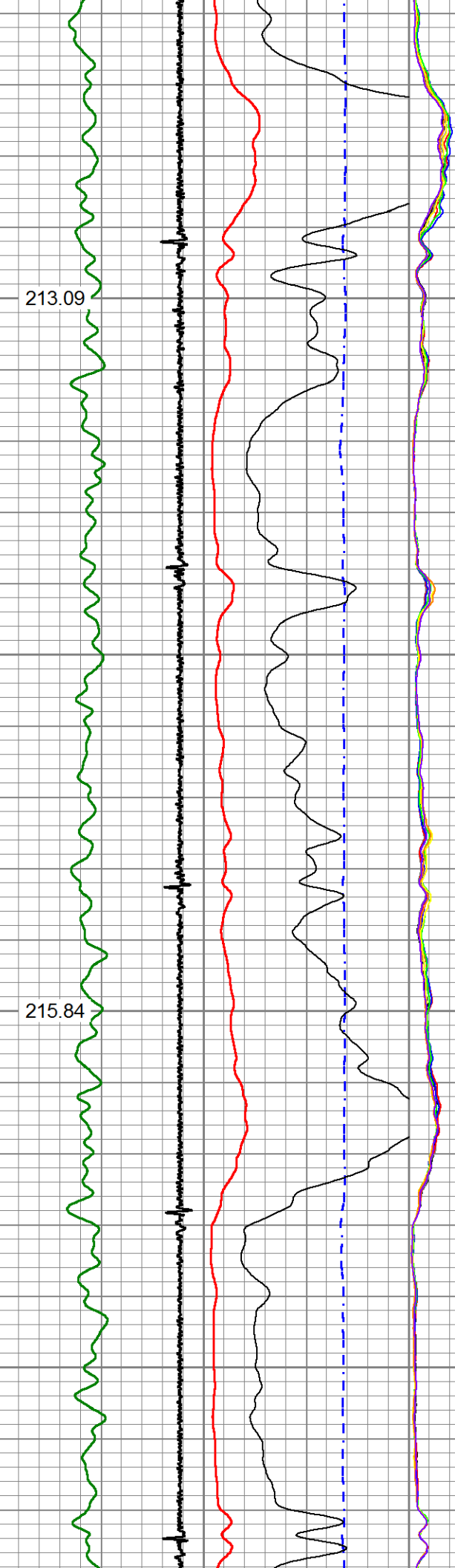
213.09

6650

6700

215.84

6750



6800

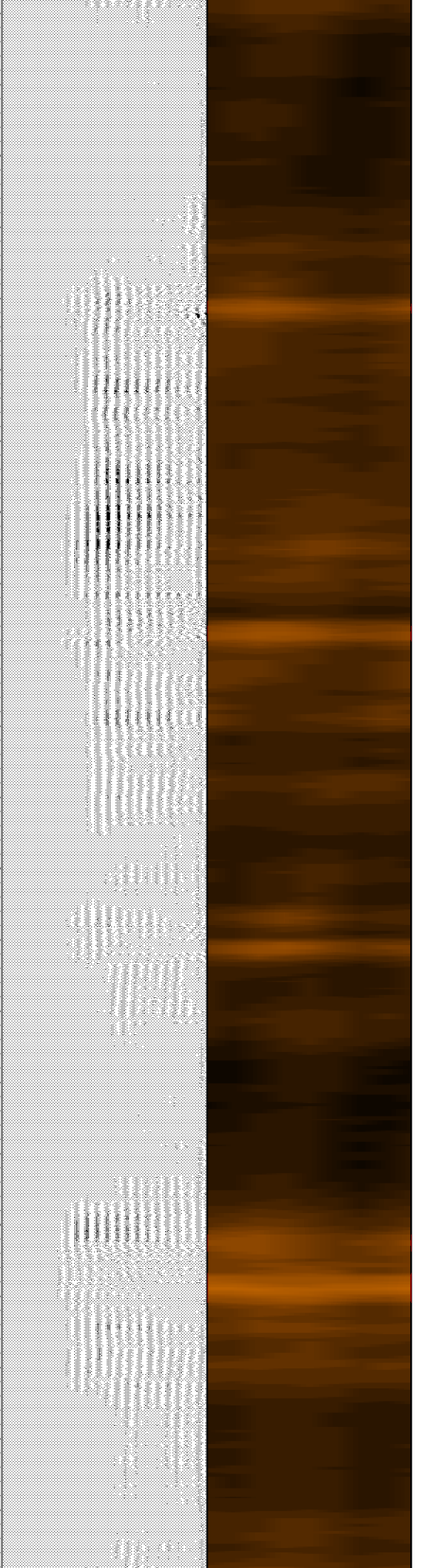
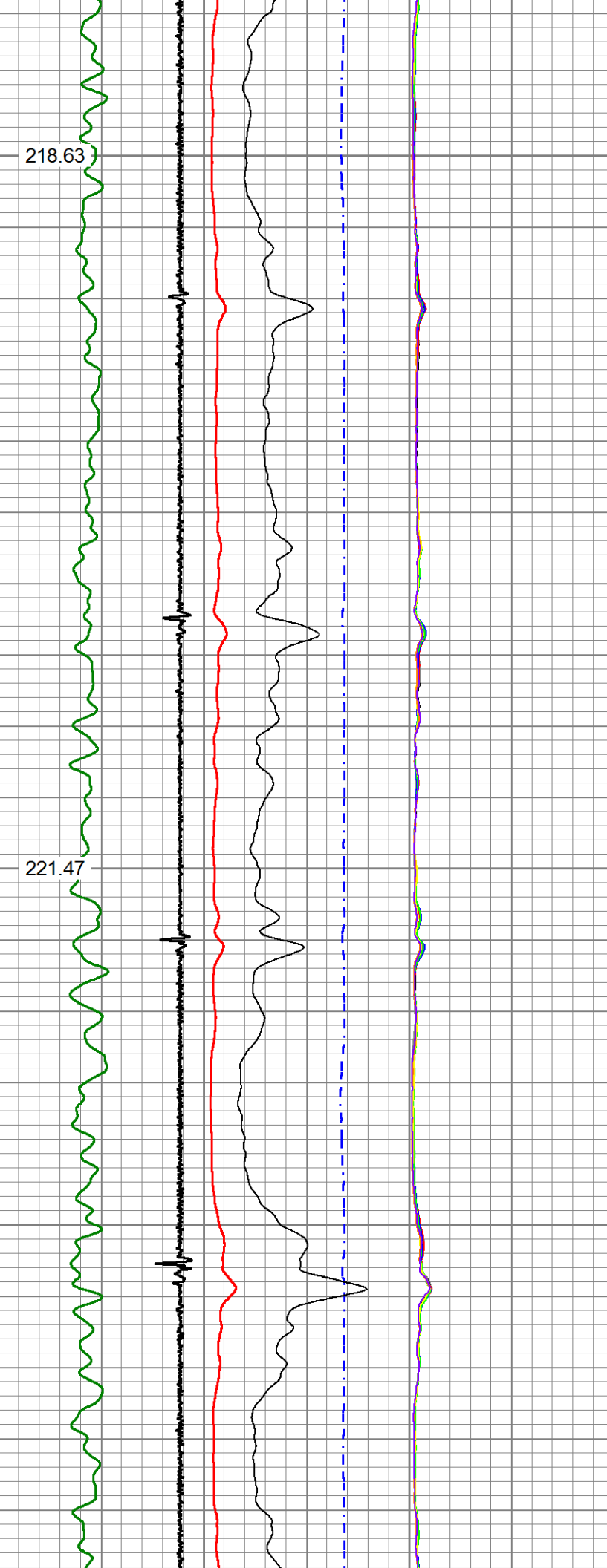
218.63

6850

6900

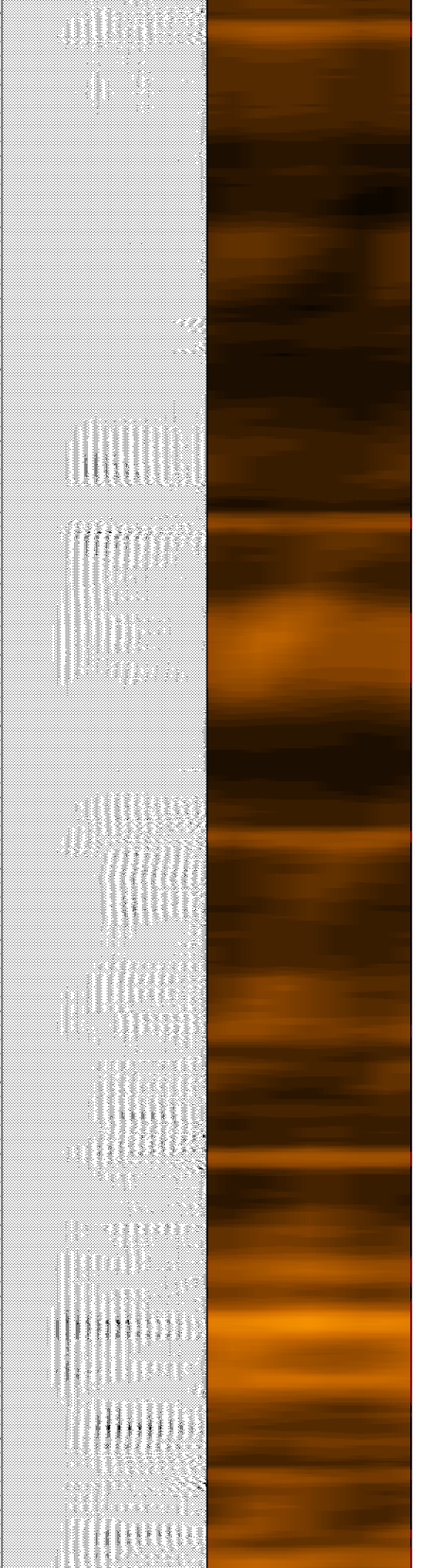
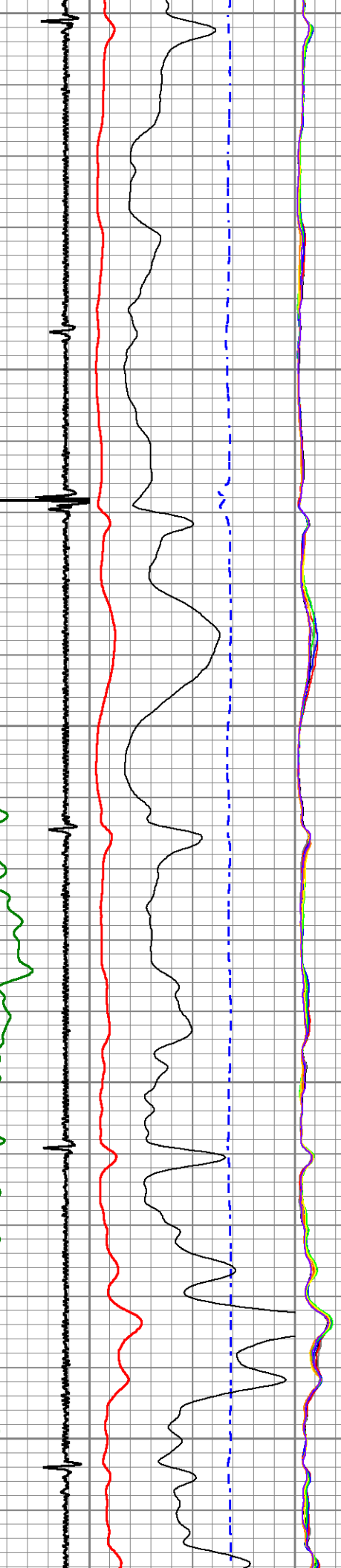
221.47

6950



7000  
7050  
7100  
7150  
7200

224.36  
227.64  
230.57



7250

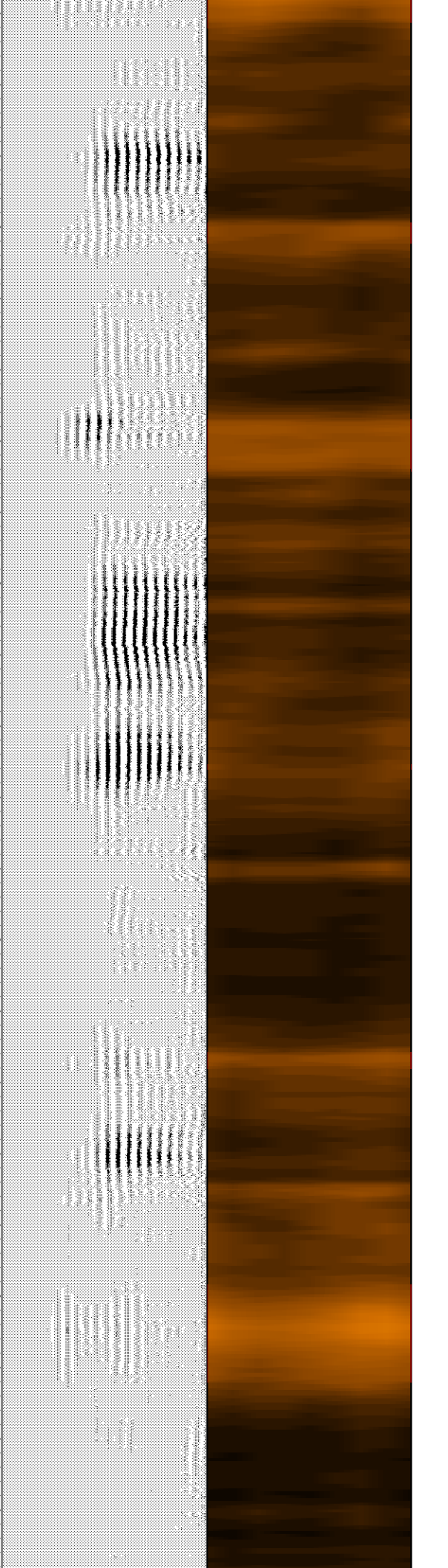
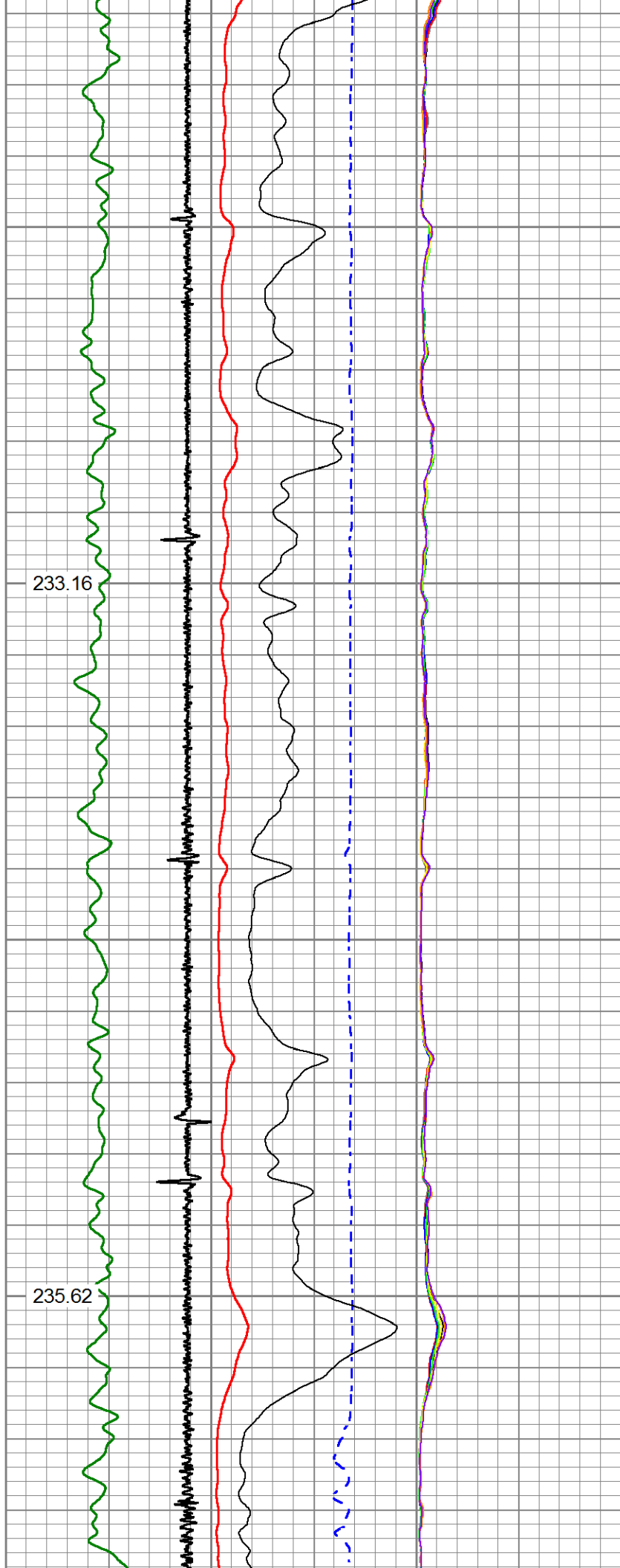
7300

7350

7400

233.16

235.62



7450

7500

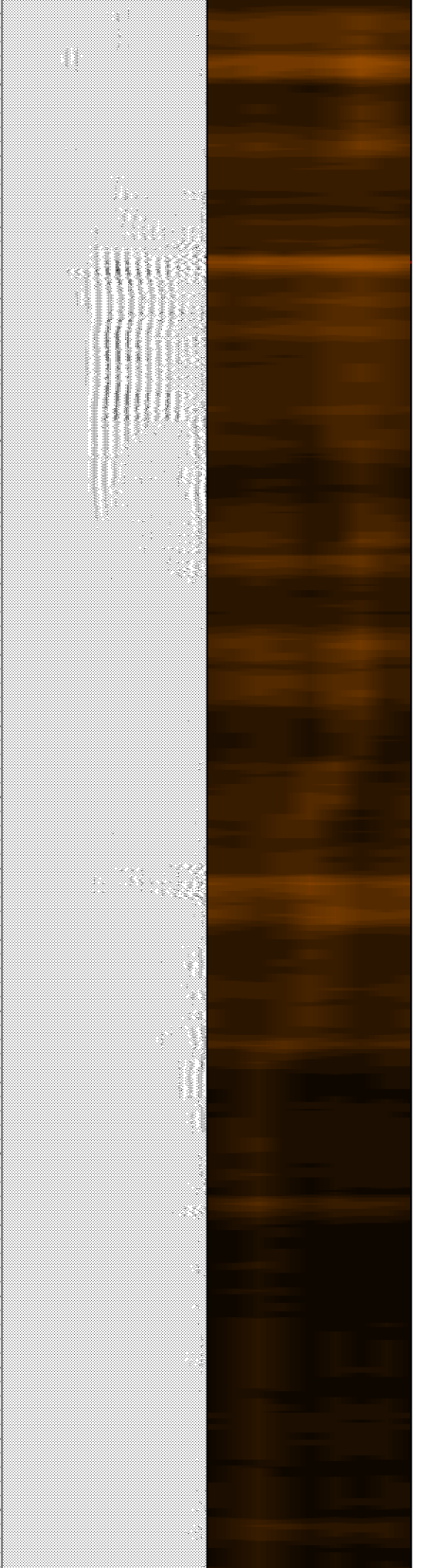
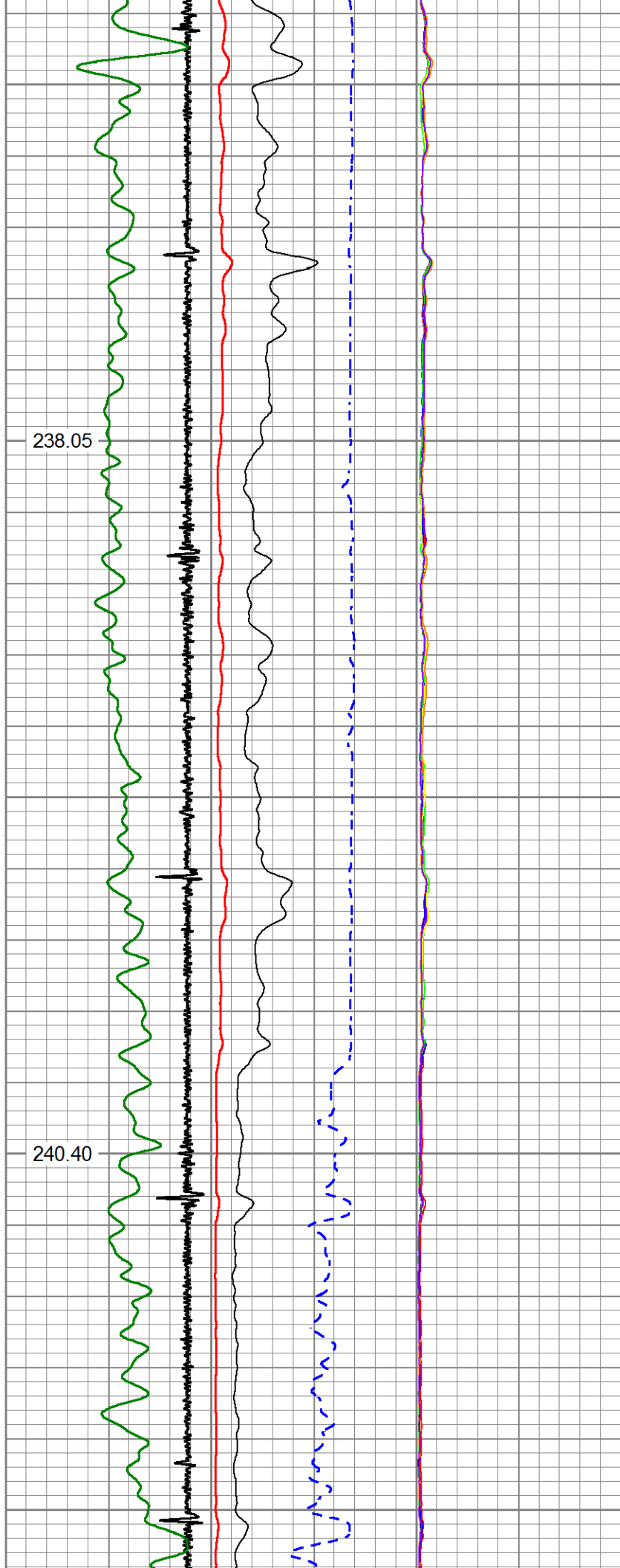
7550

7600

7650

238.05

240.40



7700

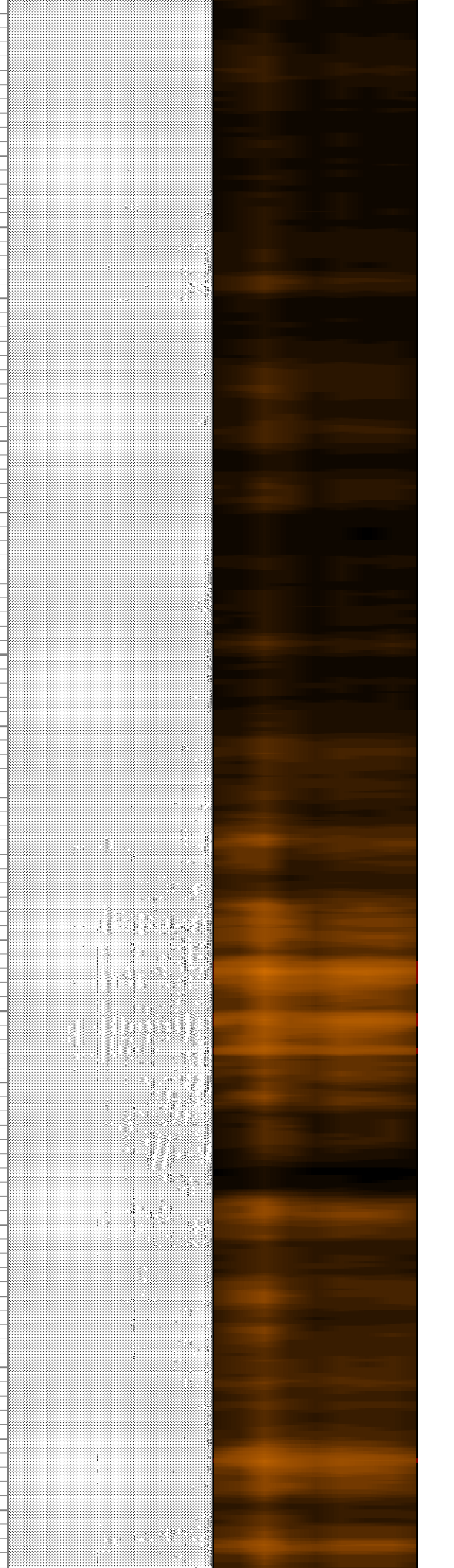
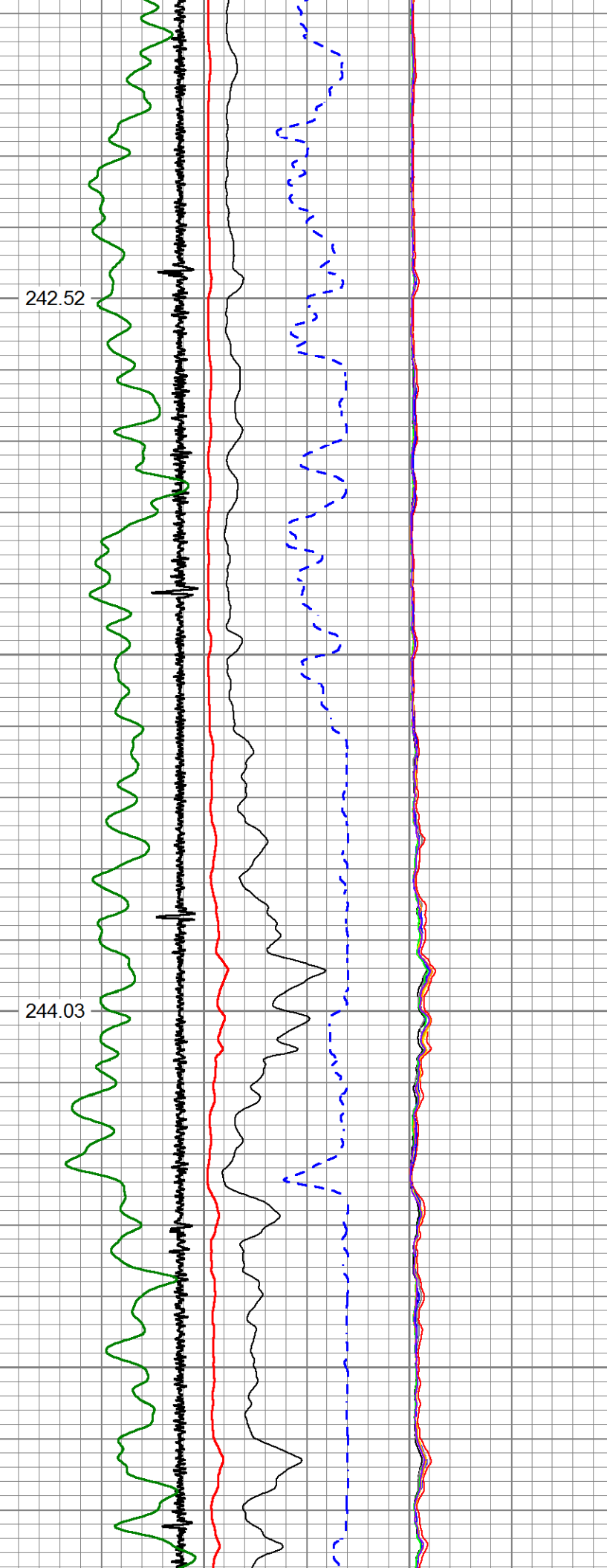
242.52

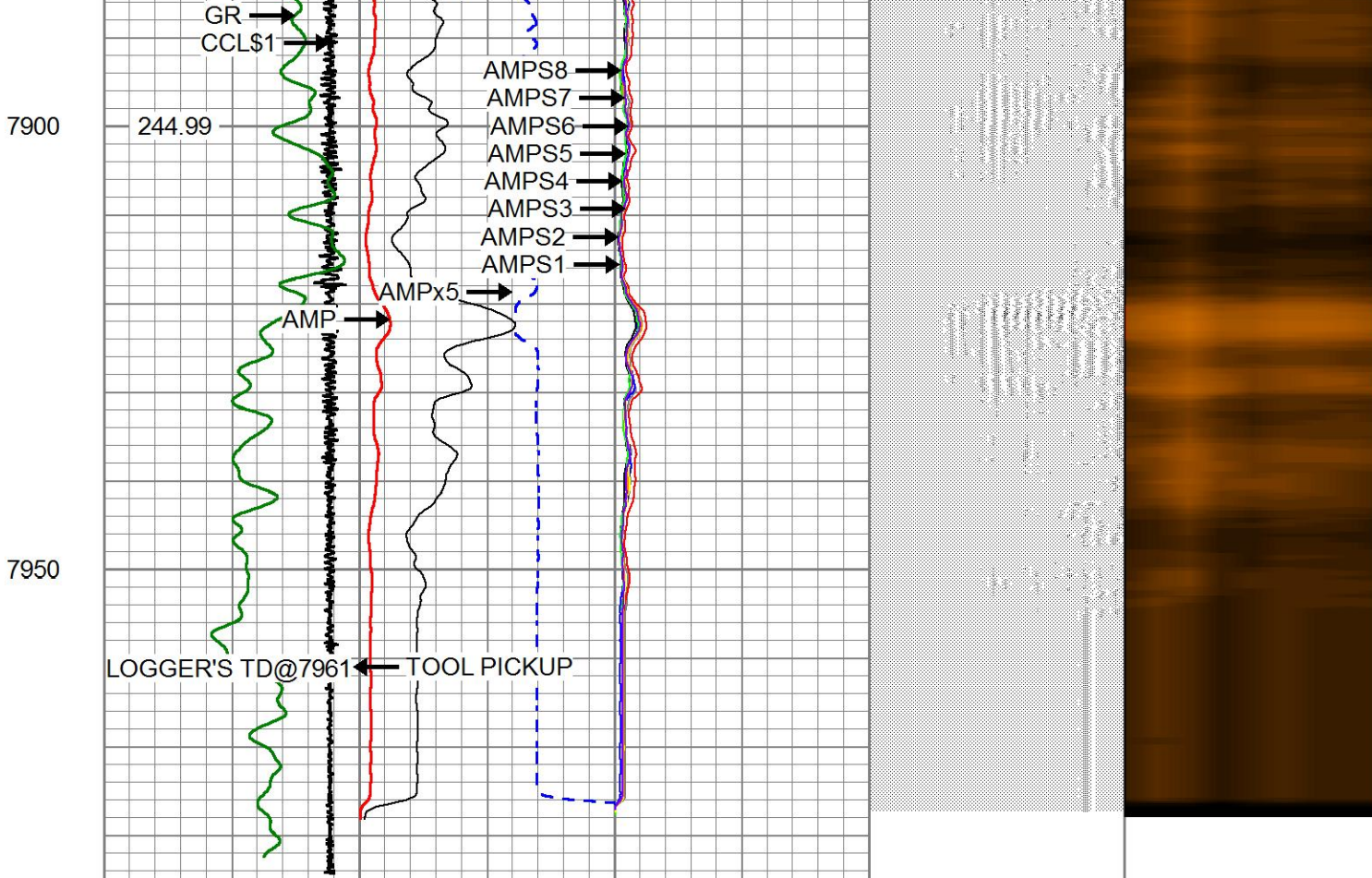
7750

7800

244.03

7850





5	CCL\$1	-0.625	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	650	TT (usec)	150	0	AMPS2	150						
GCT_TEMP			0	AMPx5 (mV)	20	0	AMPS3	150						
(degF)						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						



## REPEAT SECTION

Database File      cbl civitas lussing trust 4-64 19-20 2ah.db  
 Dataset Pathname    pass3  
 Presentation Format   civitas  
 Dataset Creation    Fri Aug 23 08:34:42 2024  
 Charted by            Depth in Feet scaled 1:240

5	CCL\$1	-0.625	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	650	TT (usec)	150	0	AMPS2	150						
GCT_TEMP			0	AMPx5 (mV)	20	0	AMPS3	150						
(degF)						0	AMPS4	150						
						0	AMPS5	150						

0	AMPS6	150
0	AMPS7	150
0	AMPS8	150

7650

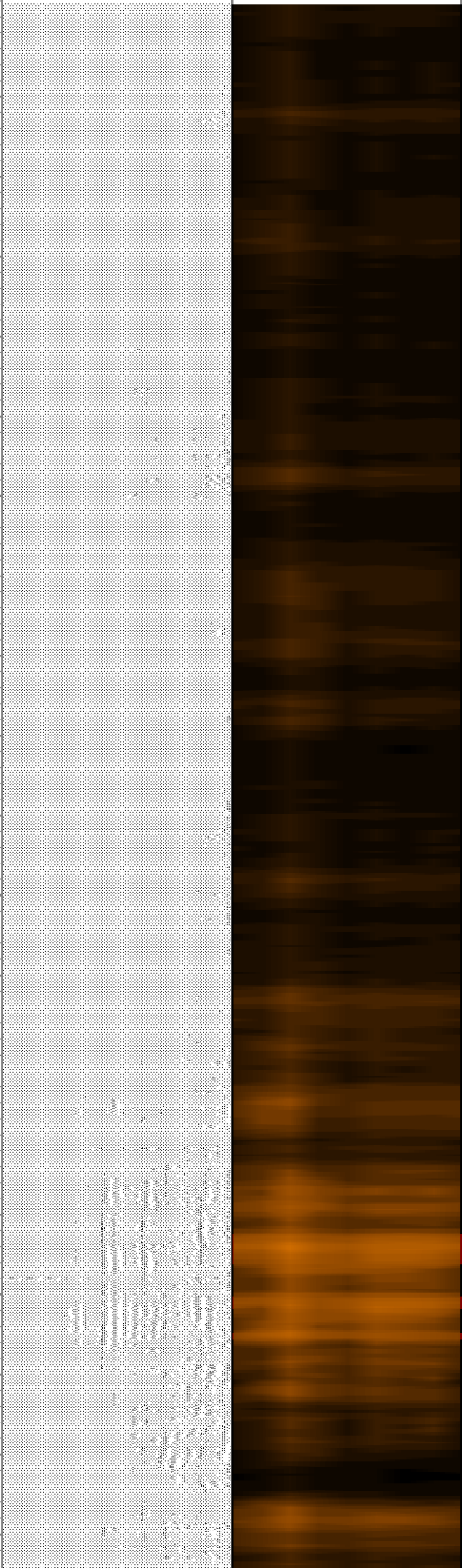
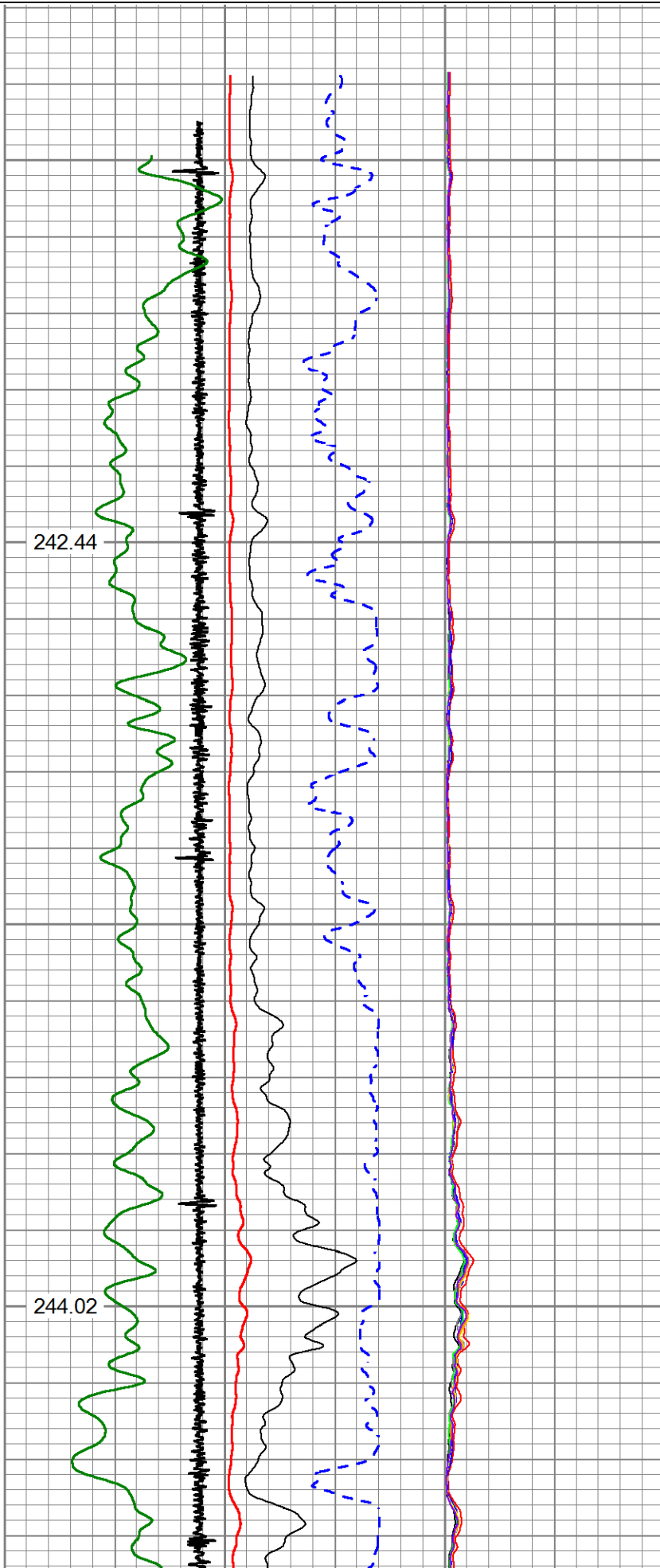
7700

7750

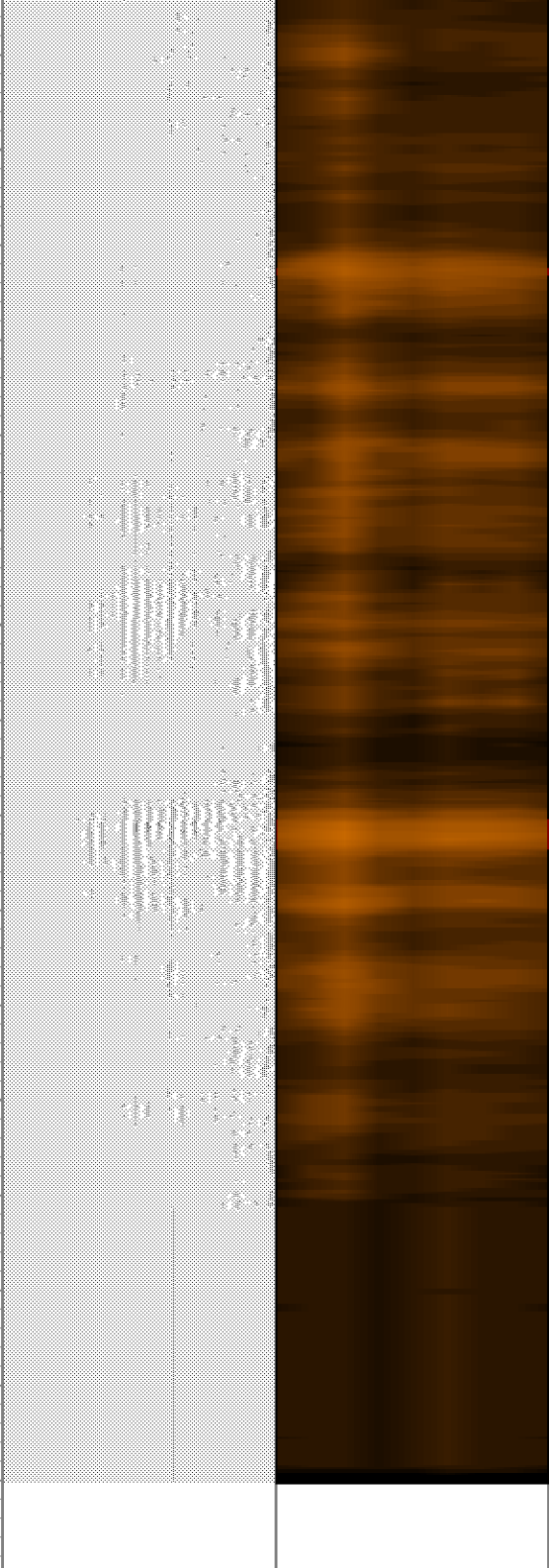
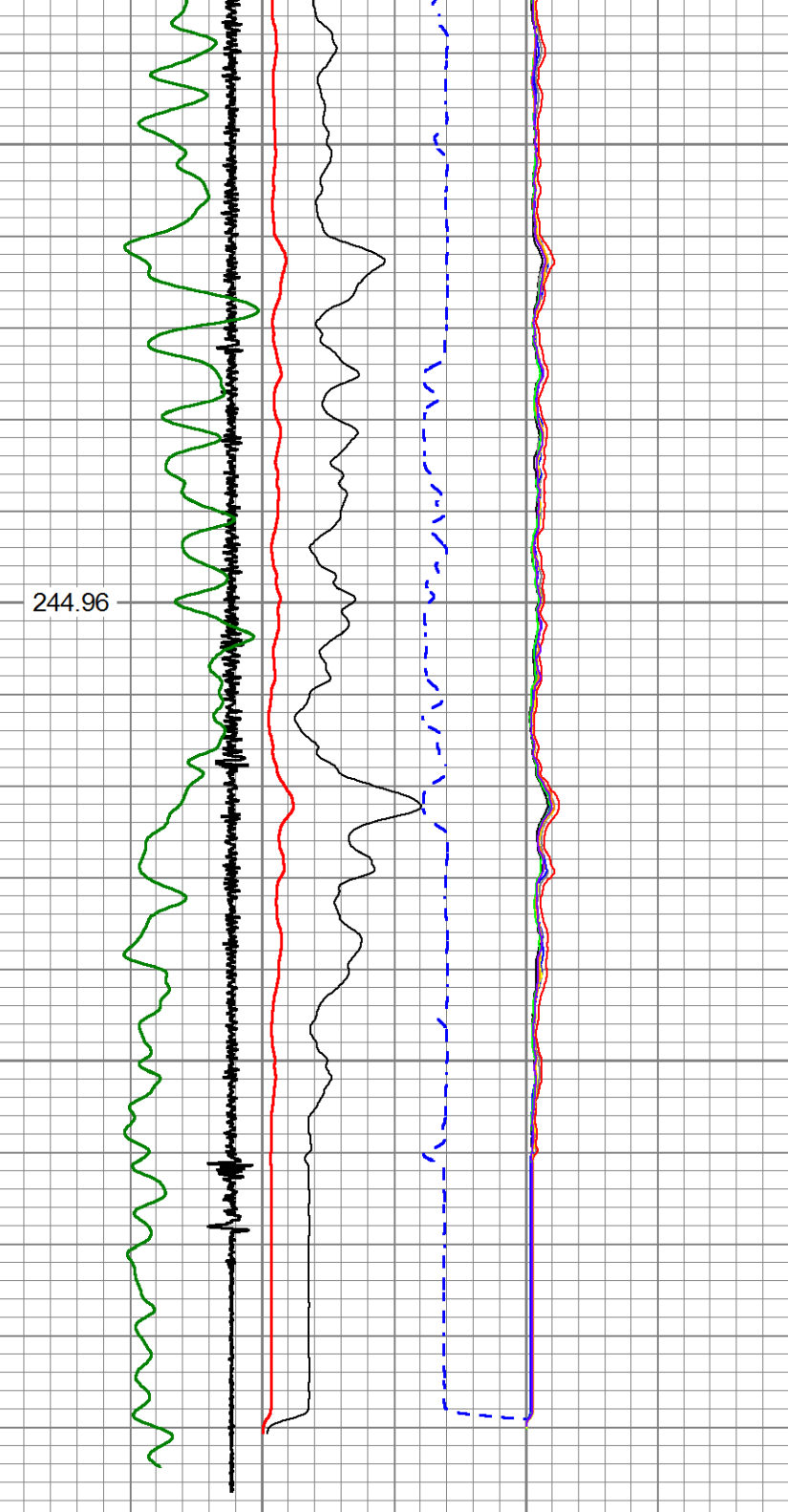
7800

242.44

244.02



7850  
7900  
7950  
8000



5	CCL\$1	-0.625	0	AMP (mV)	100	0	AMPS1	150	200	VDL (usec)	1200	1	RADIAL MAP	8
0	GR (GAPI)	150	650	TT (usec)	150	0	AMPS2	150						
GCT_TEMP			0	AMPx5 (mV)	20	0	AMPS3	150						
(degF)						0	AMPS4	150						
						0	AMPS5	150						
						0	AMPS6	150						
						0	AMPS7	150						
						0	AMPS8	150						

Calibration Report

Gamma Ray Calibration Report

Serial Number: FW1905-098  
 Tool Model: GCT275-0000  
 Performed: Fri Aug 25 09:31:17 2023

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1905-052  
 Tool Model: Probe

Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 141.892 ft

Master Calibration, performed Fri Aug 23 08:13:45 2024:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.011	2.086	0.800	71.921	34.284	0.407
CAL	2.219	2.190				
5'	0.025	2.109	0.800	71.921	34.117	-0.042
SUM						
S1	0.008	2.105	0.000	71.921	34.292	-0.262
S2	0.020	2.091	0.000	71.921	34.730	-0.711
S3	0.018	2.103	0.000	71.921	34.494	-0.609
S4	0.016	2.079	0.000	71.921	34.852	-0.550
S5	0.013	2.051	0.000	71.921	35.287	-0.467
S6	0.015	2.046	0.000	71.921	35.413	-0.532
S7	0.024	2.023	0.000	71.921	35.986	-0.880
S8	0.016	2.102	0.000	71.921	34.492	-0.566

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	2.219	2.190	1.000	0.000

Air Zero Calibration, performed Wed Aug 21 15:15:51 2024:

	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

S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000