




Radial Cement Bond Log
Gamma Ray CCL

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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

Corrected Uphole 13' to Schlumberger Open Hole Log Dated 10-09-2015.
Max Temperature Thermometer Ran With Gamma Ray CCL 290 F.
CBL/ GR/CCL Ran under 1000 PSI

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CENT	18.91					

			PTS275	2.83	2.75	
HEADVOLT	16.08					
RBT	16.08					
IntTemp	14.66					
WVF3FT	11.41					
WVFCAL	11.41					
WVFS1	11.41					
WVFS2	11.41					
WVFS3	11.41					
WVFS4	11.41					
WVFS5	11.41					
WVFS6	11.41					
WVFS7	11.41					
WVFS8	11.41					
WVF5FT	10.41					
CNLSC	6.00					
CNSSC	5.17					
GR	4.33					
CCL	3.64					
GR	0.90					
<div> <div>Dataset:</div> <div>ngl c5a.db: field/well/run1/pass12</div> </div> <div> <div>Total Length:</div> <div>18.91 ft</div> </div> <div> <div>Total Weight:</div> <div>160.00 lb</div> </div> <div> <div>O.D.</div> <div>2.75 in</div> </div>						

Gamma Ray Calibration Report

Serial Number: 275
 Tool Model: Probe
 Performed: Fri Nov 07 09:08:01 2014

 Calibrator Value: 120.0 cps

 Background Reading: 30.0 cps
 Calibrator Reading: 210.0 cps

 Sensitivity: 1.1000 cps/cps

Compensated Neutron Calibration Report

Serial Number: 275
 Tool Model: Probe_B

CALIBRATION Wed Jul 30 08:47:19 2008

Detector	Readings	Target	Normalization
Short Space	5001.20 cps	0.00 cps	1.0000
Long Space	1029.31 cps	0.00 cps	1.0000

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

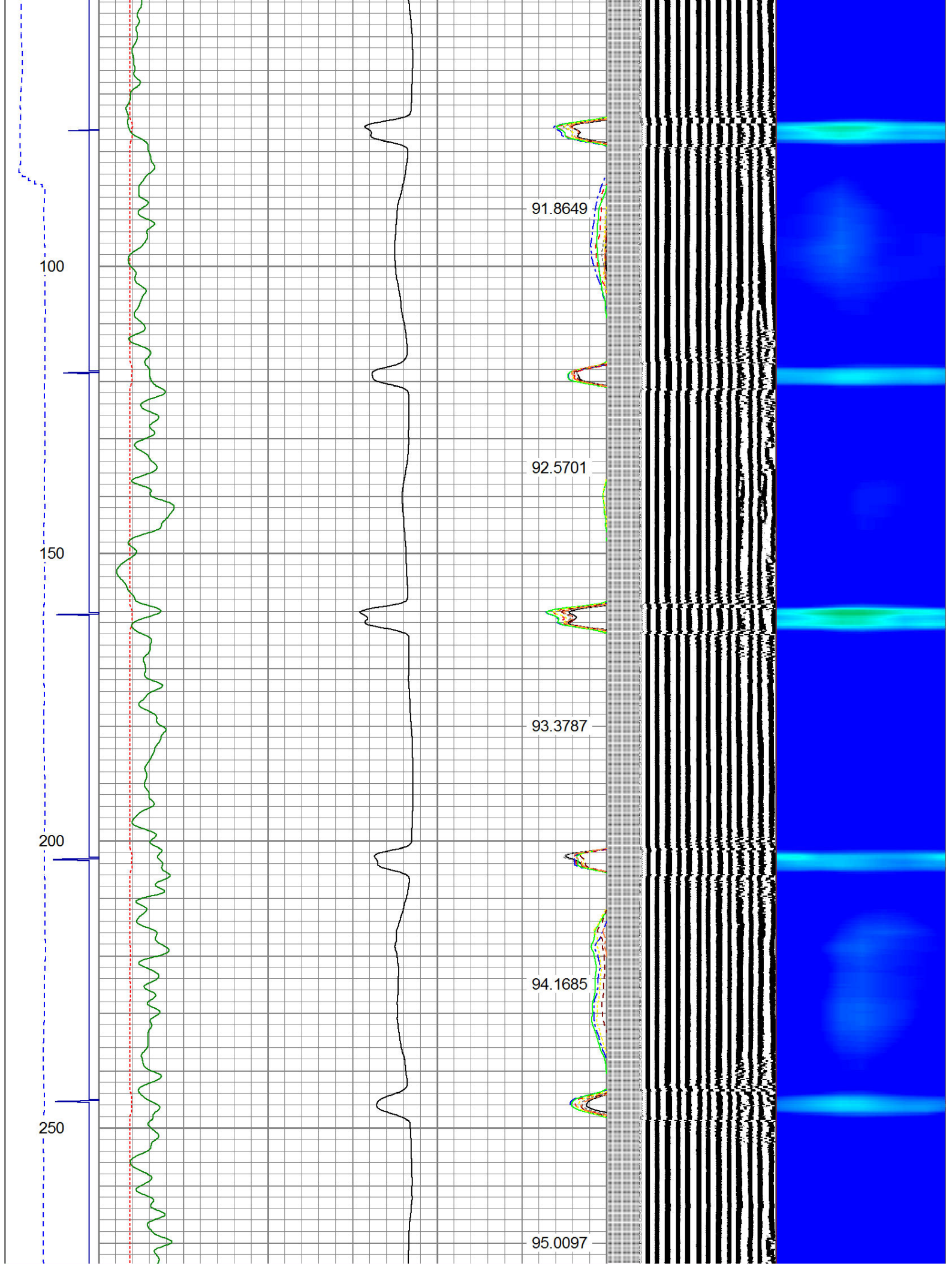
Segmented Cement Bond Log Calibration Report

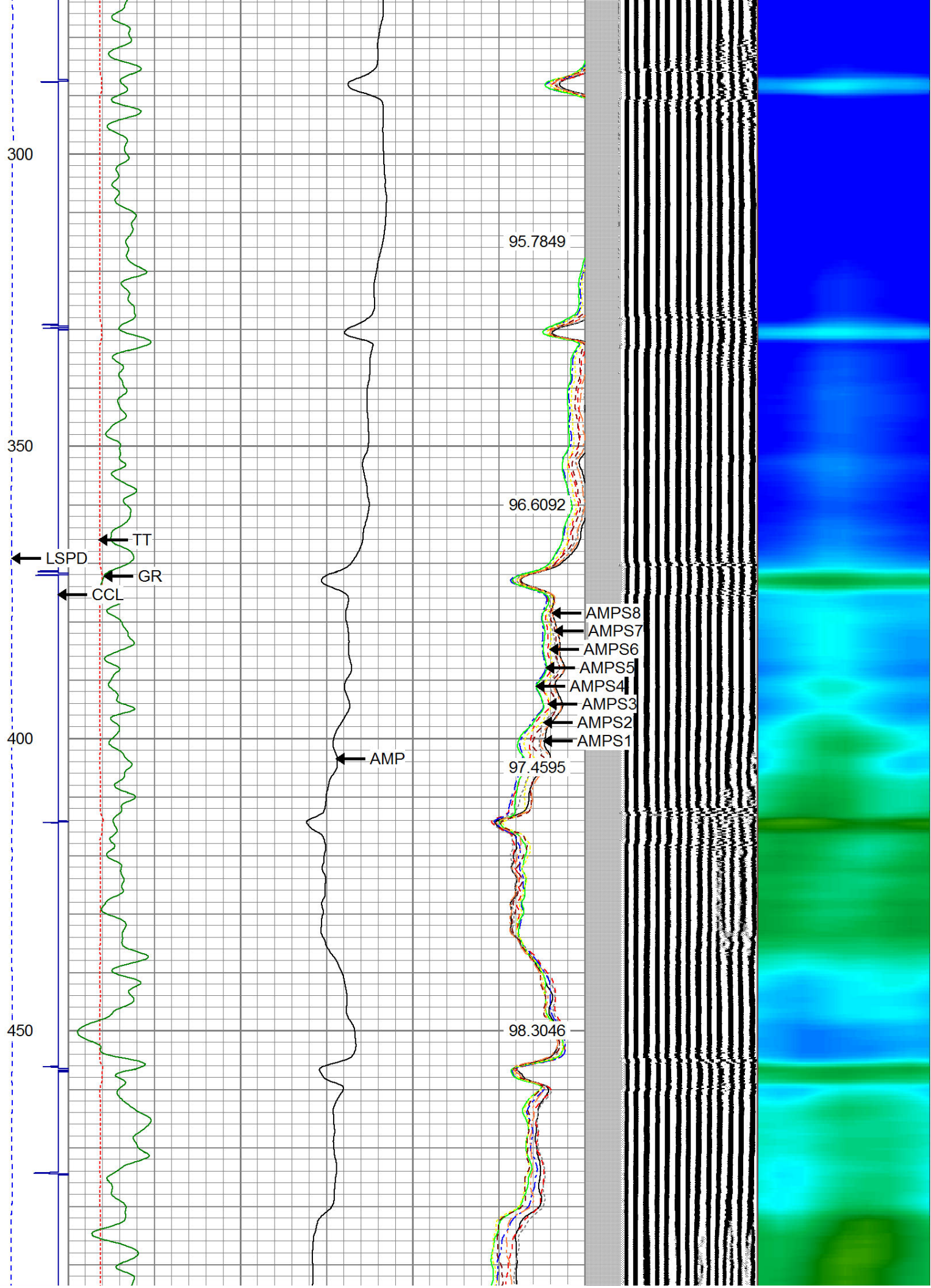
Serial Number: Base
 Tool Model: Probe

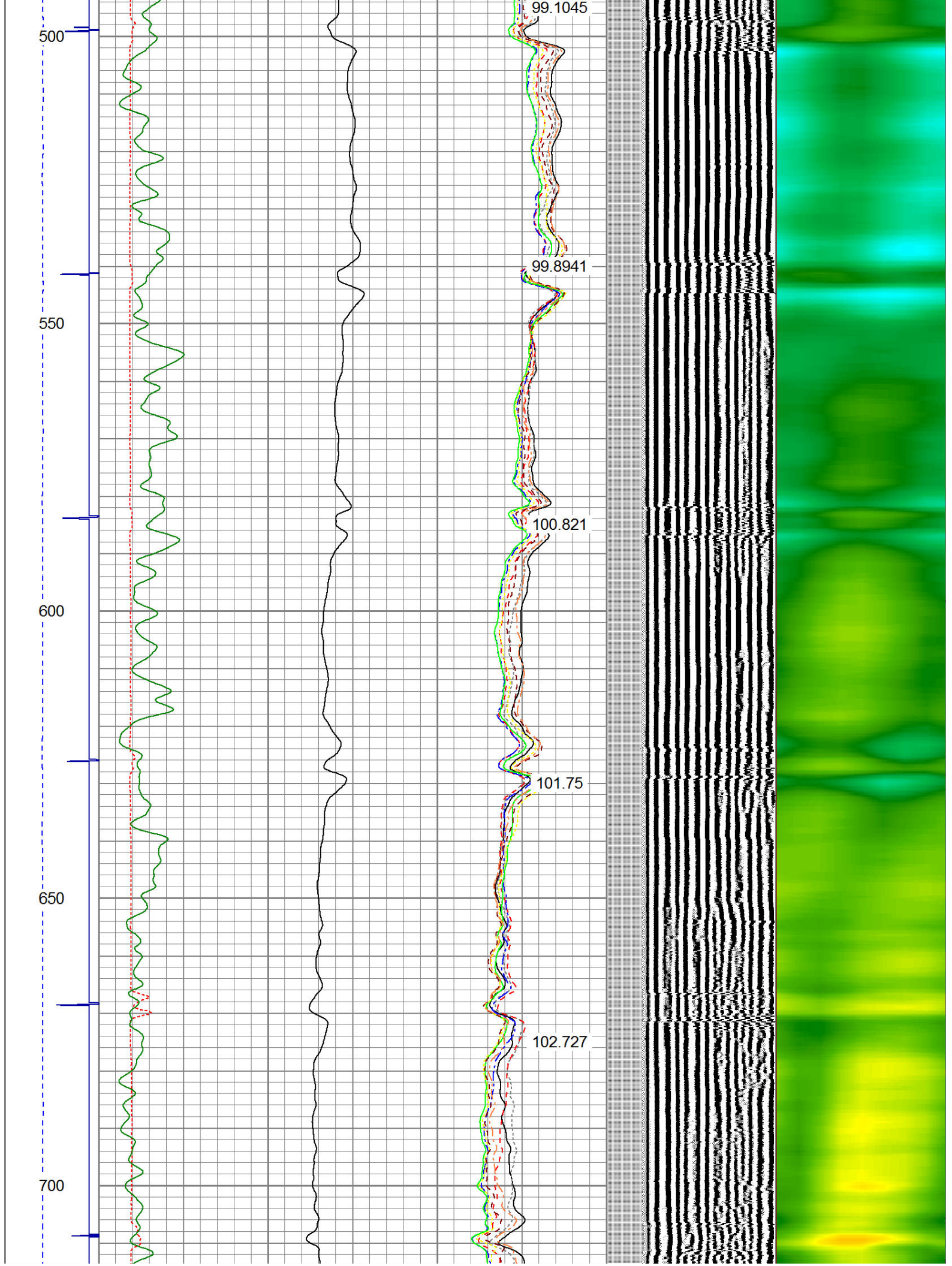
 Calibration Casing Diameter: 4.500 in
 Calibration Depth: 3372.692 ft

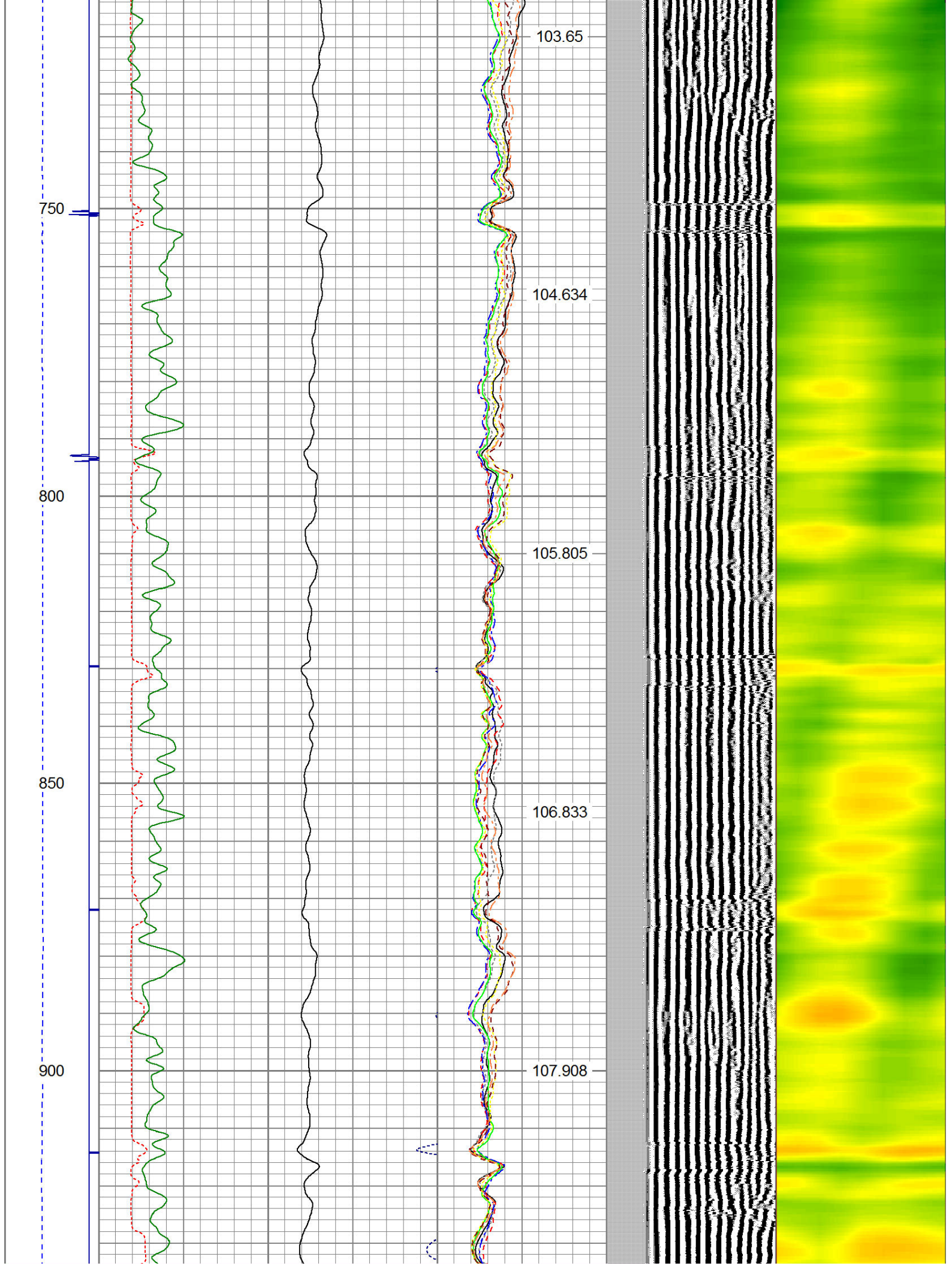
Master Calibration, performed Mon Nov 02 07:40:22 2015:

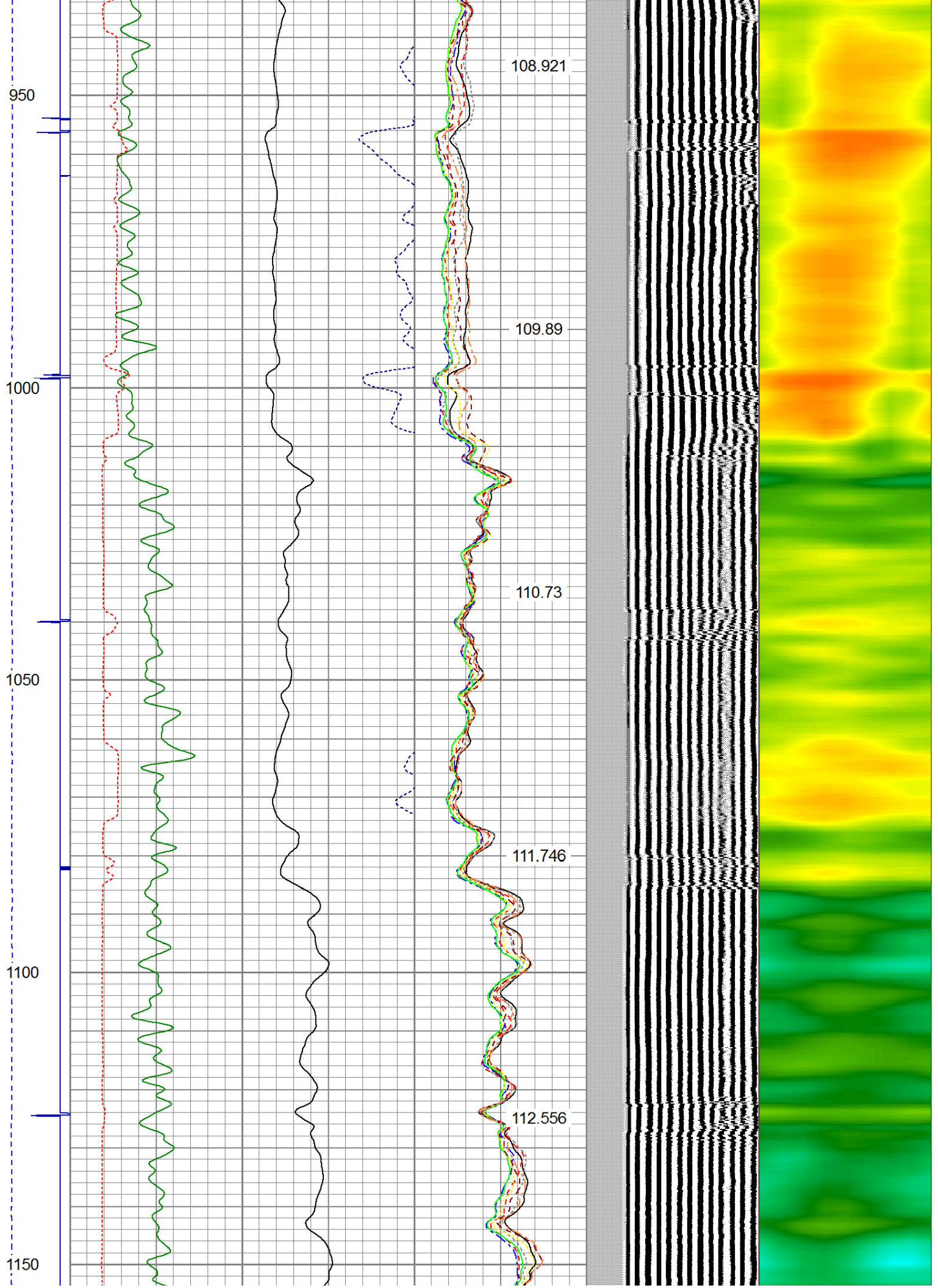
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	2.248	1.500	81.196	35.508	1.376
CAL	1.039	2.490				

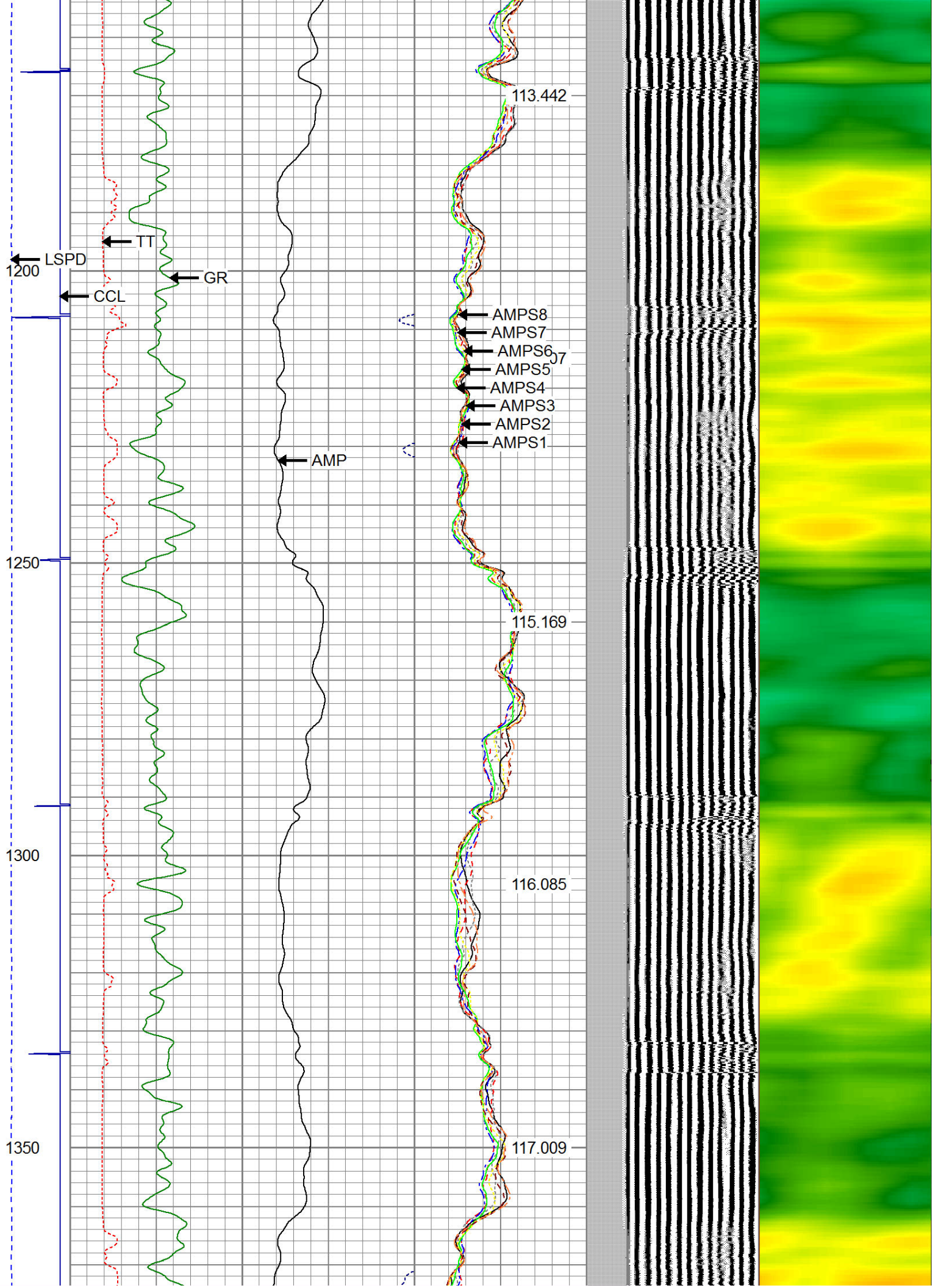












1400

1450

1500

1550

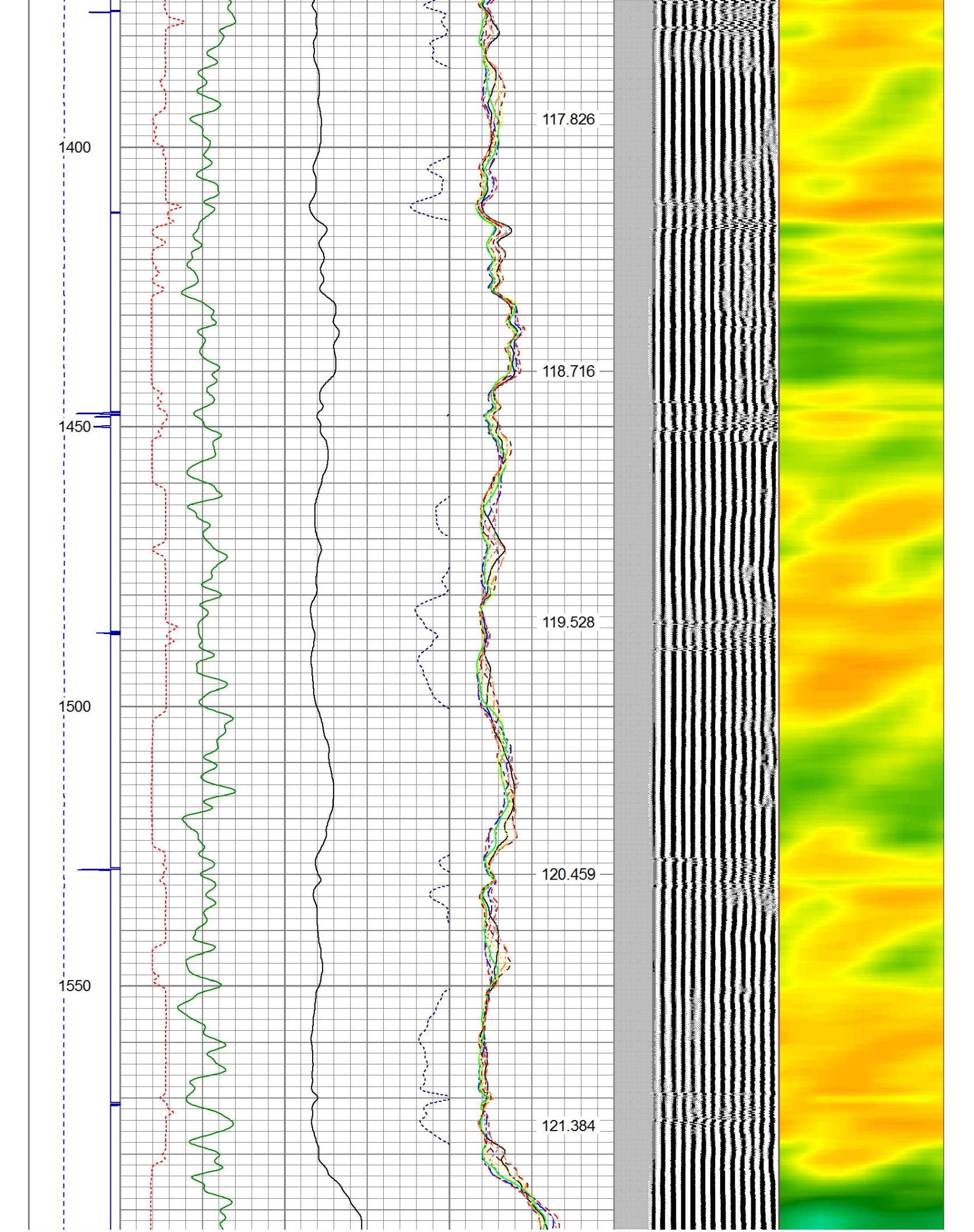
117.826

118.716

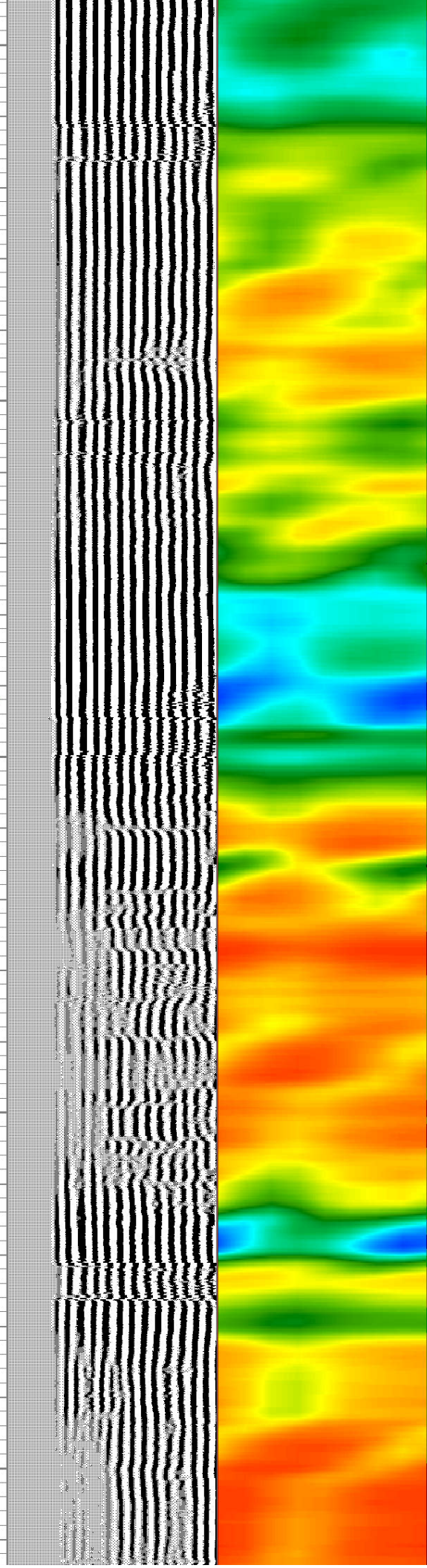
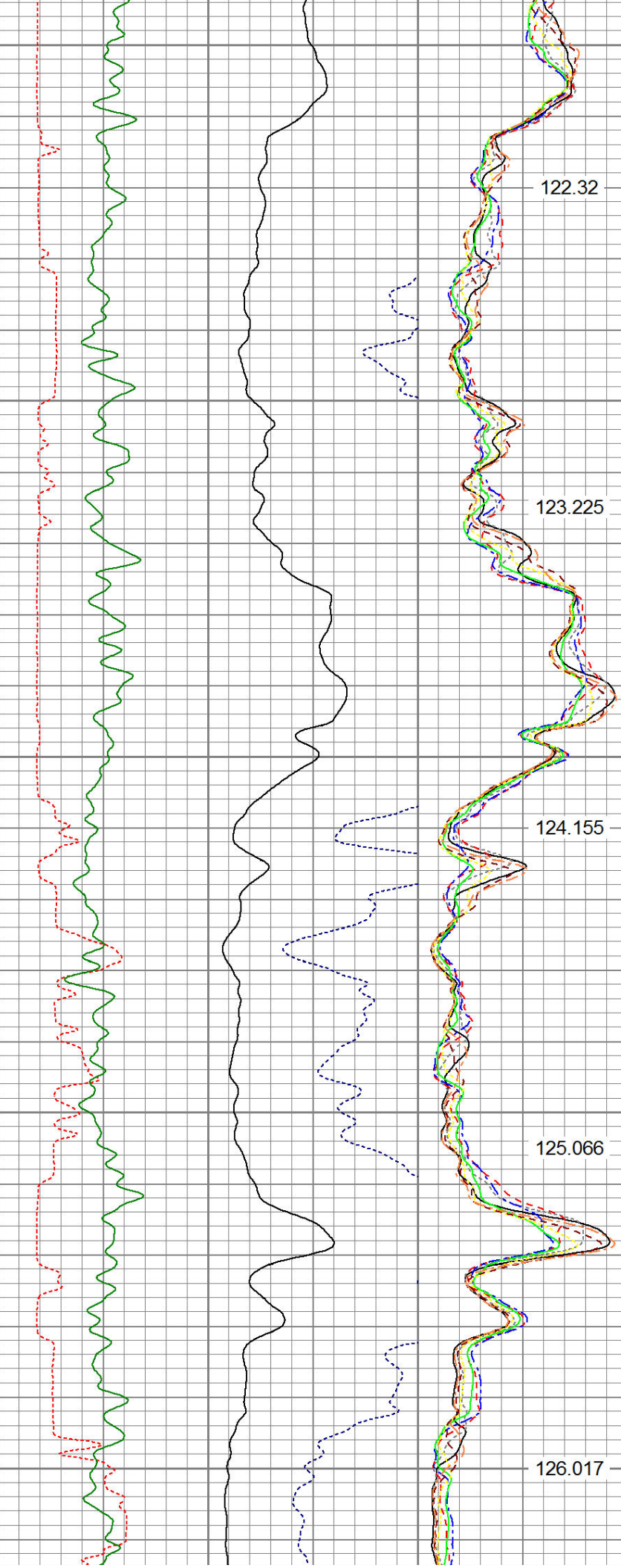
119.528

120.459

121.384



1600
1650
1700
1750
1800



1850

1900

1950

2000

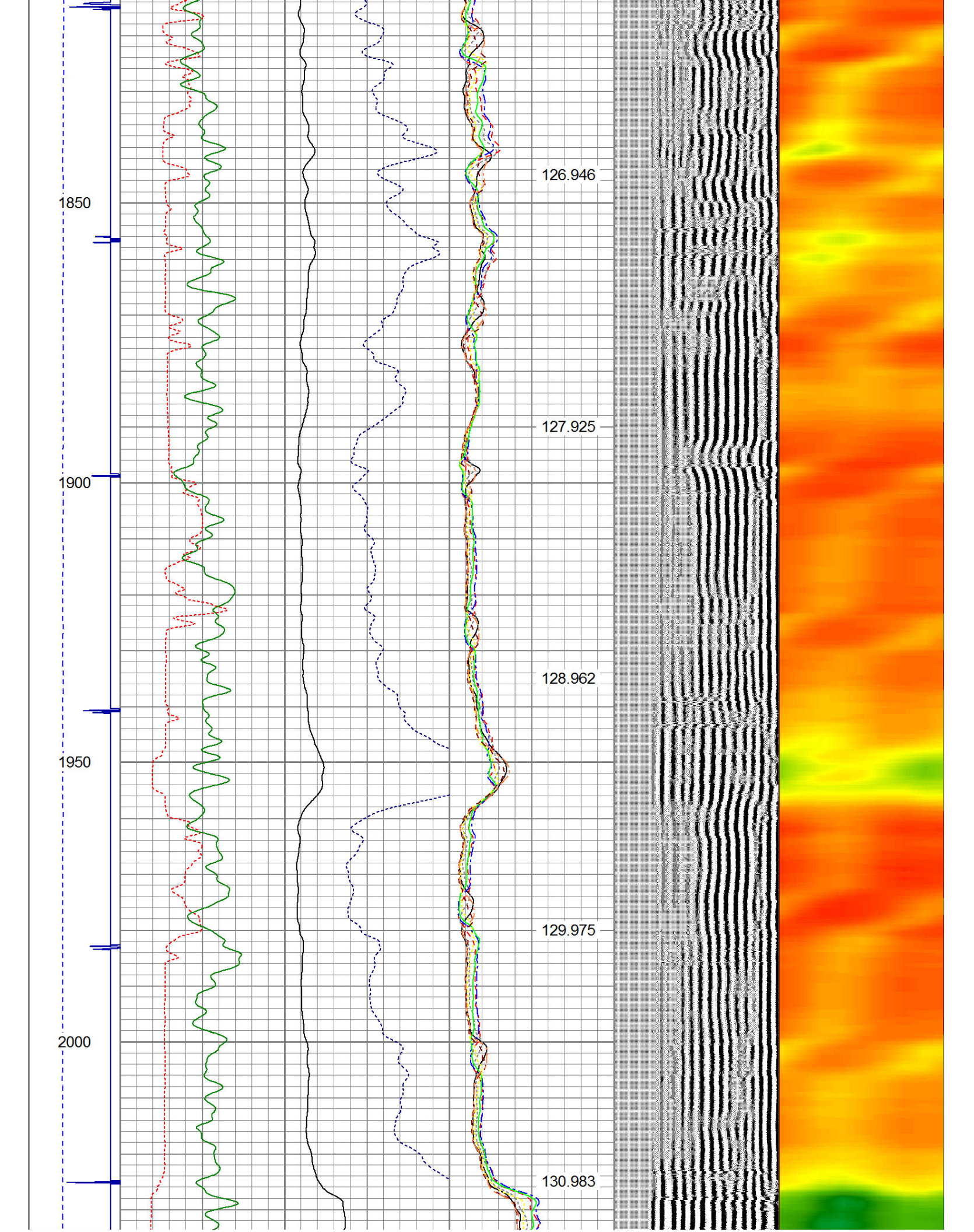
126.946

127.925

128.962

129.975

130.983



2050

2100

2150

2200

2250

132.095

133.06

134.139

135.087

136.239

LSPD

TT

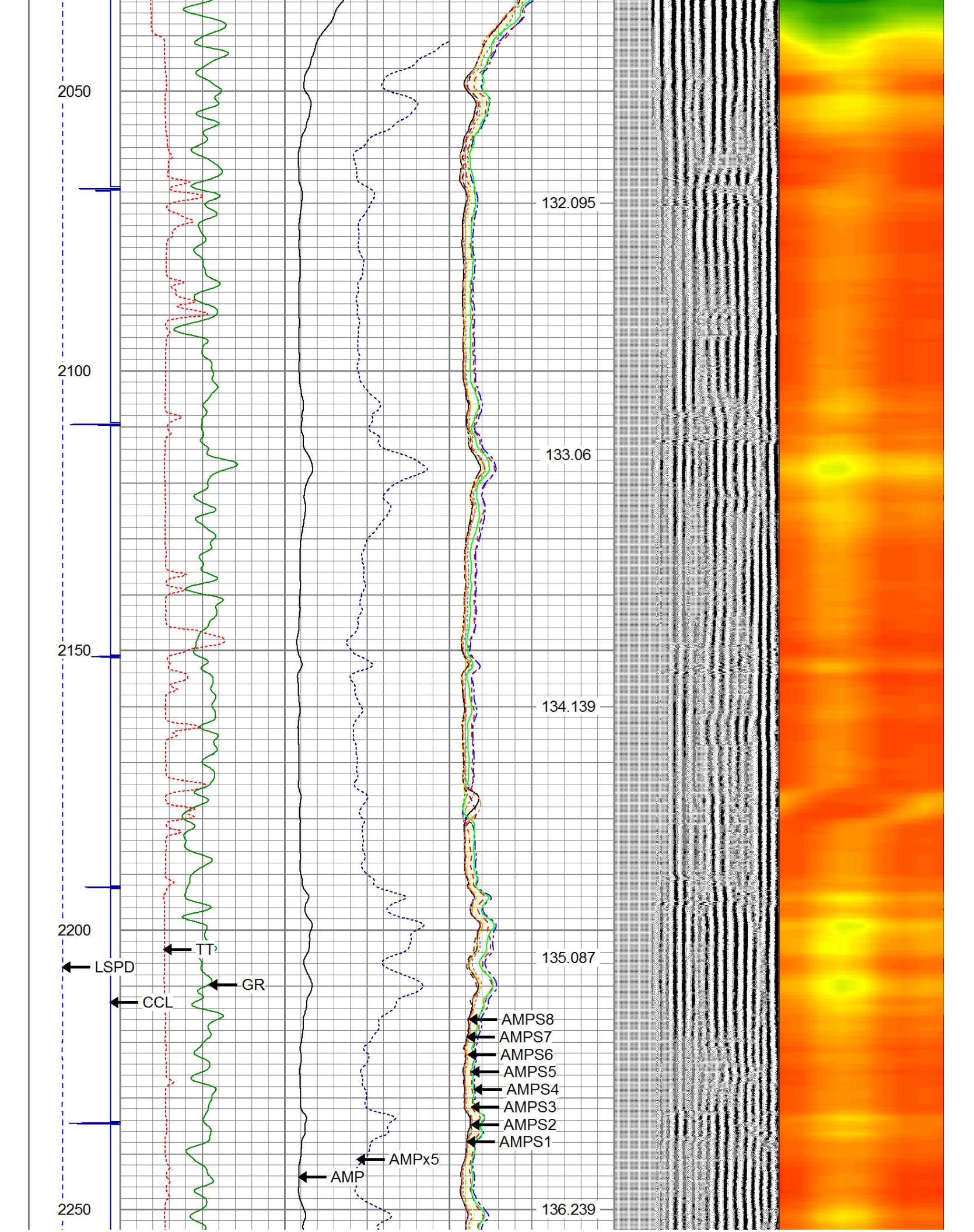
CCL

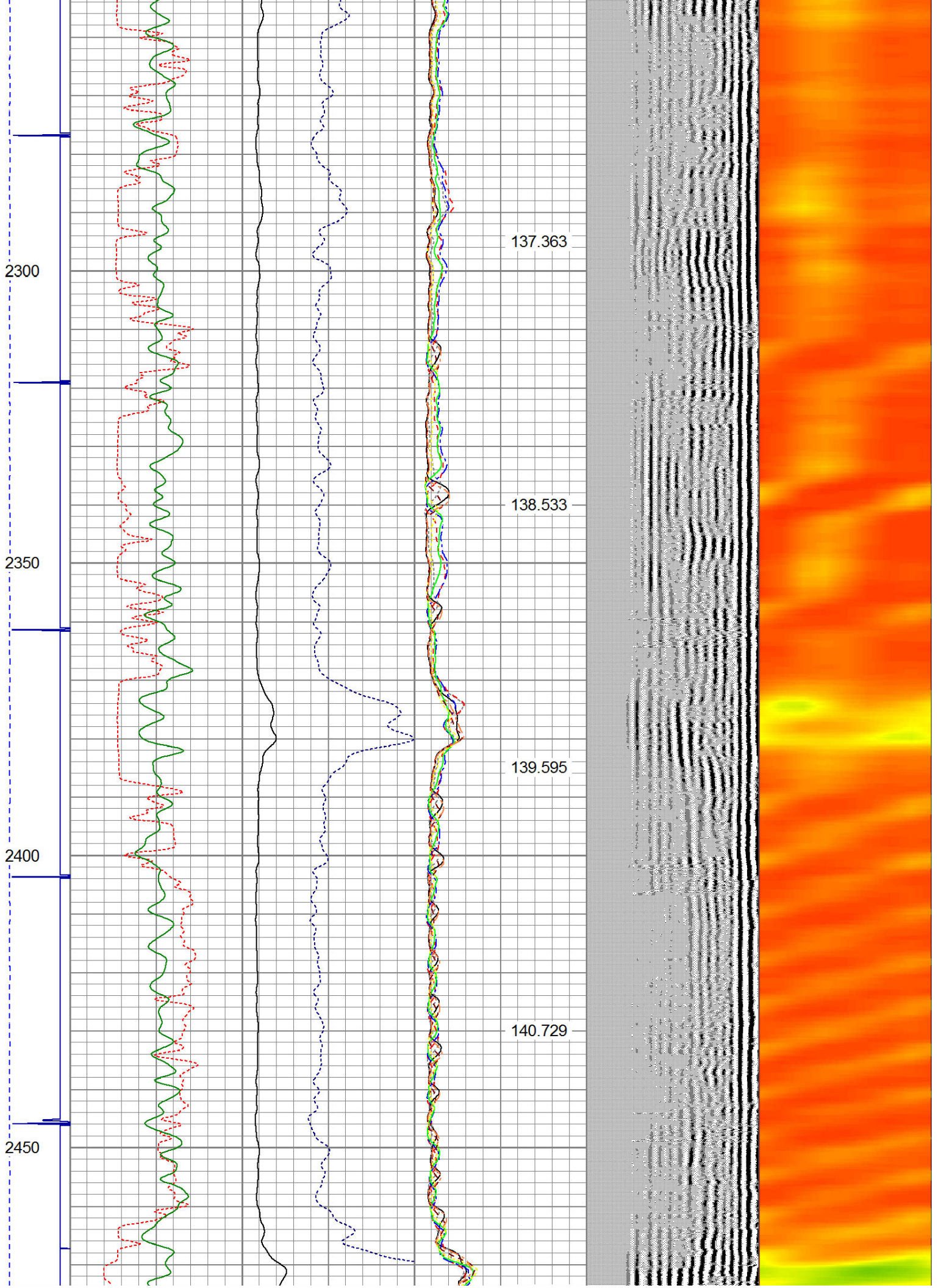
GR

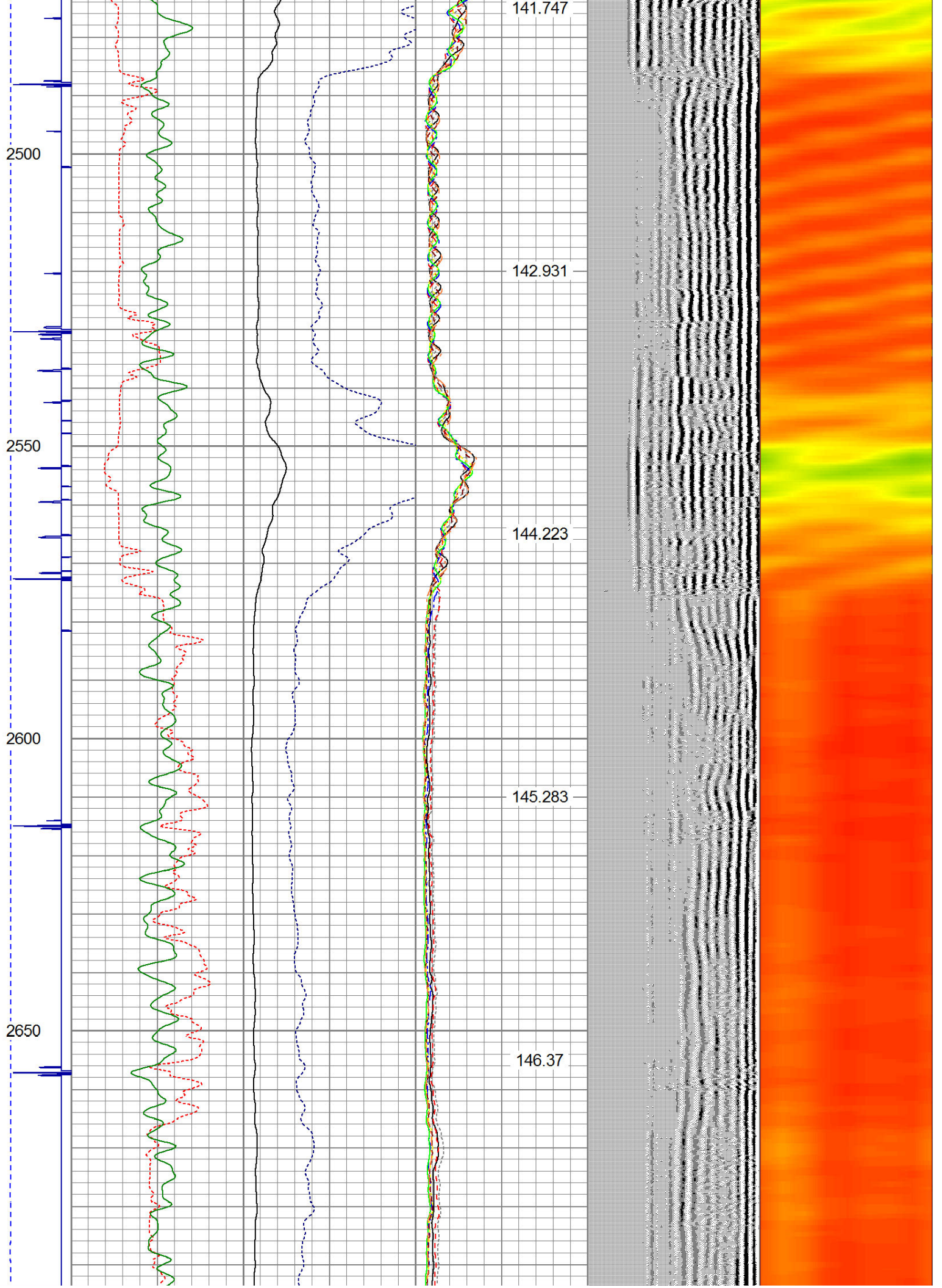
AMP

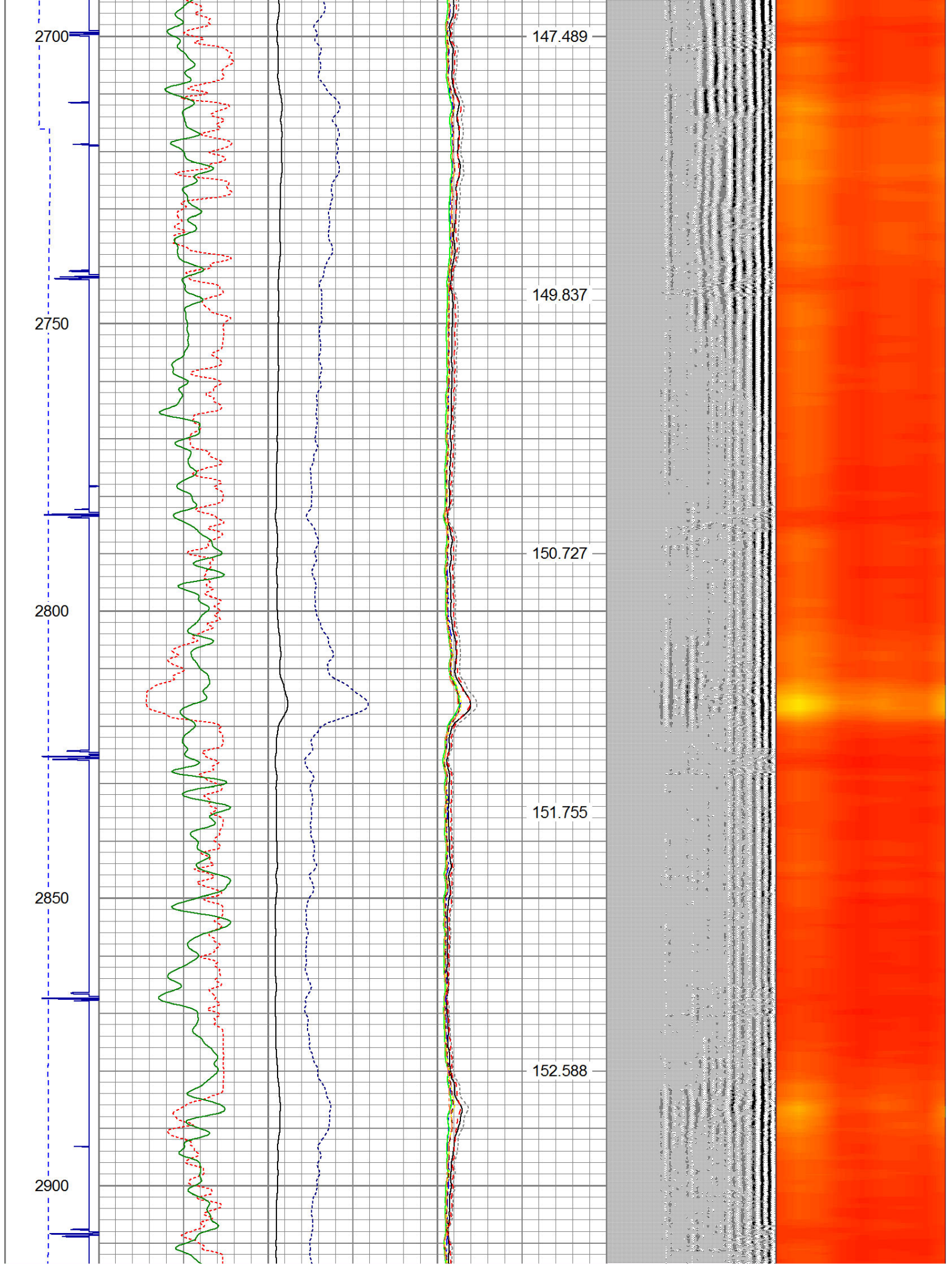
AMPx5

AMPS8
AMPS7
AMPS6
AMPS5
AMPS4
AMPS3
AMPS2
AMPS1









2950

3000

3050

3100

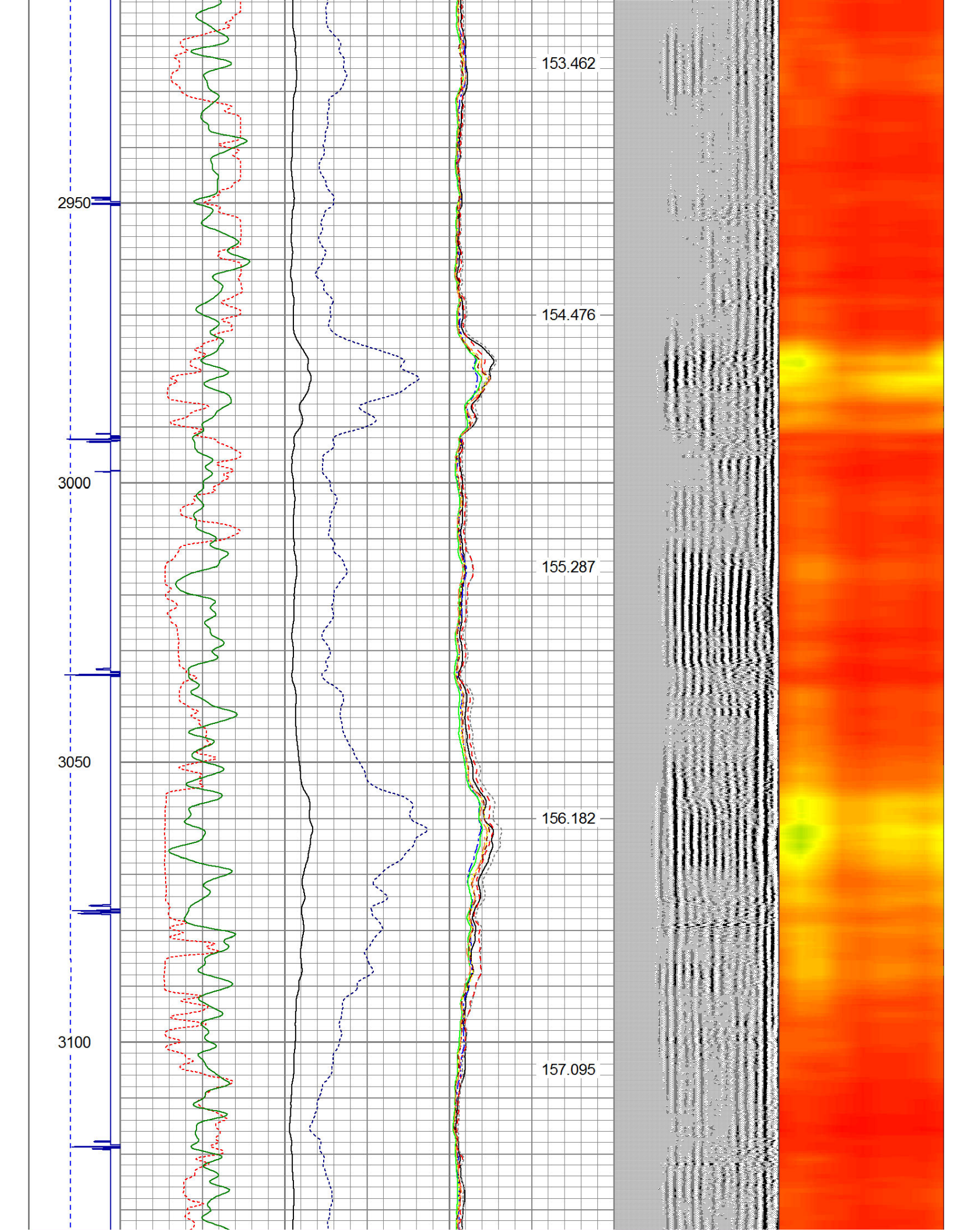
153.462

154.476

155.287

156.182

157.095



3150

157.966

3200

158.833

LSPD

TT

GR

CCL

AMPS8

AMPS7

AMPS6

AMPS5

AMPS4

AMPS3

AMPS2

AMPS1

AMPx5

159.734

AMP

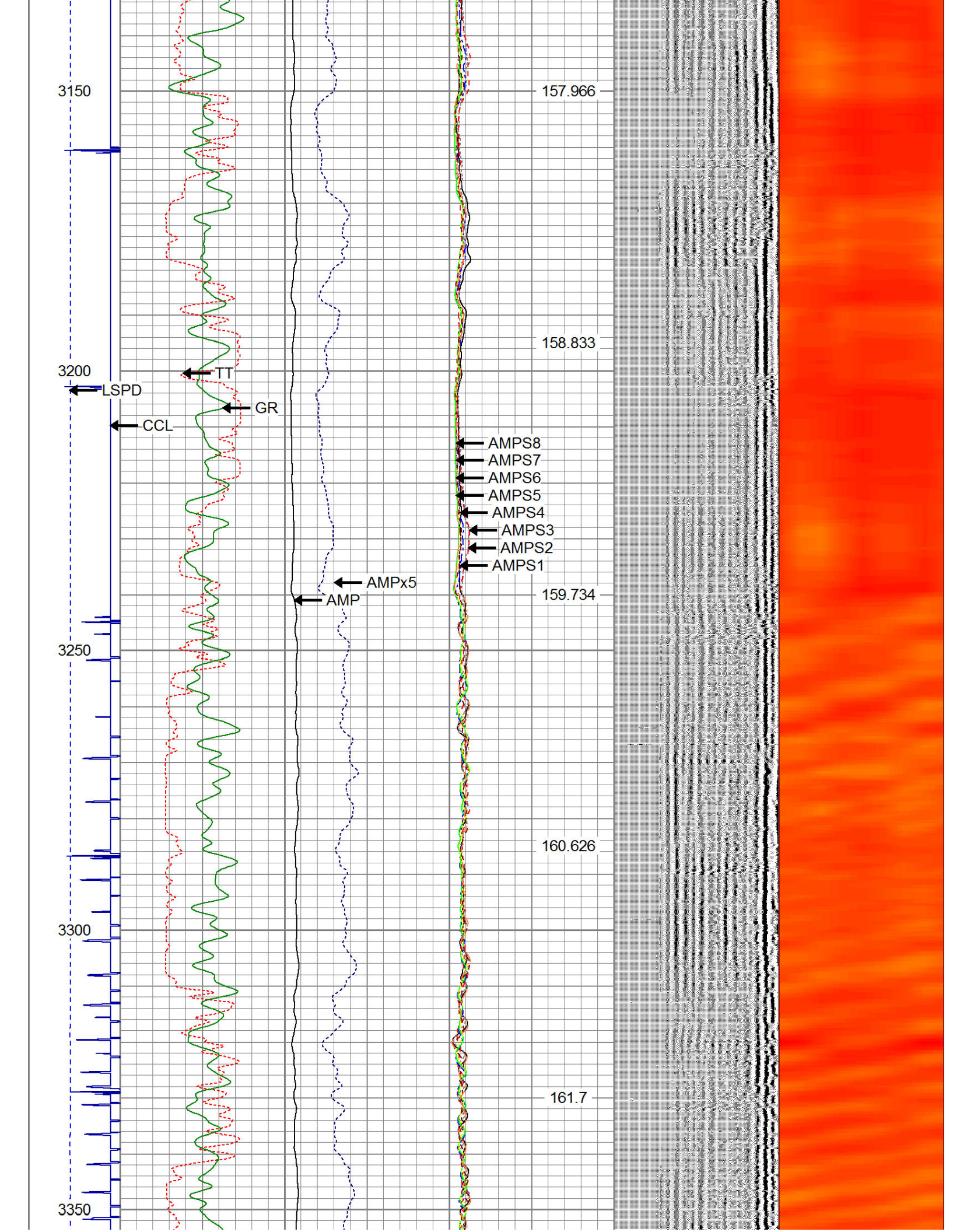
3250

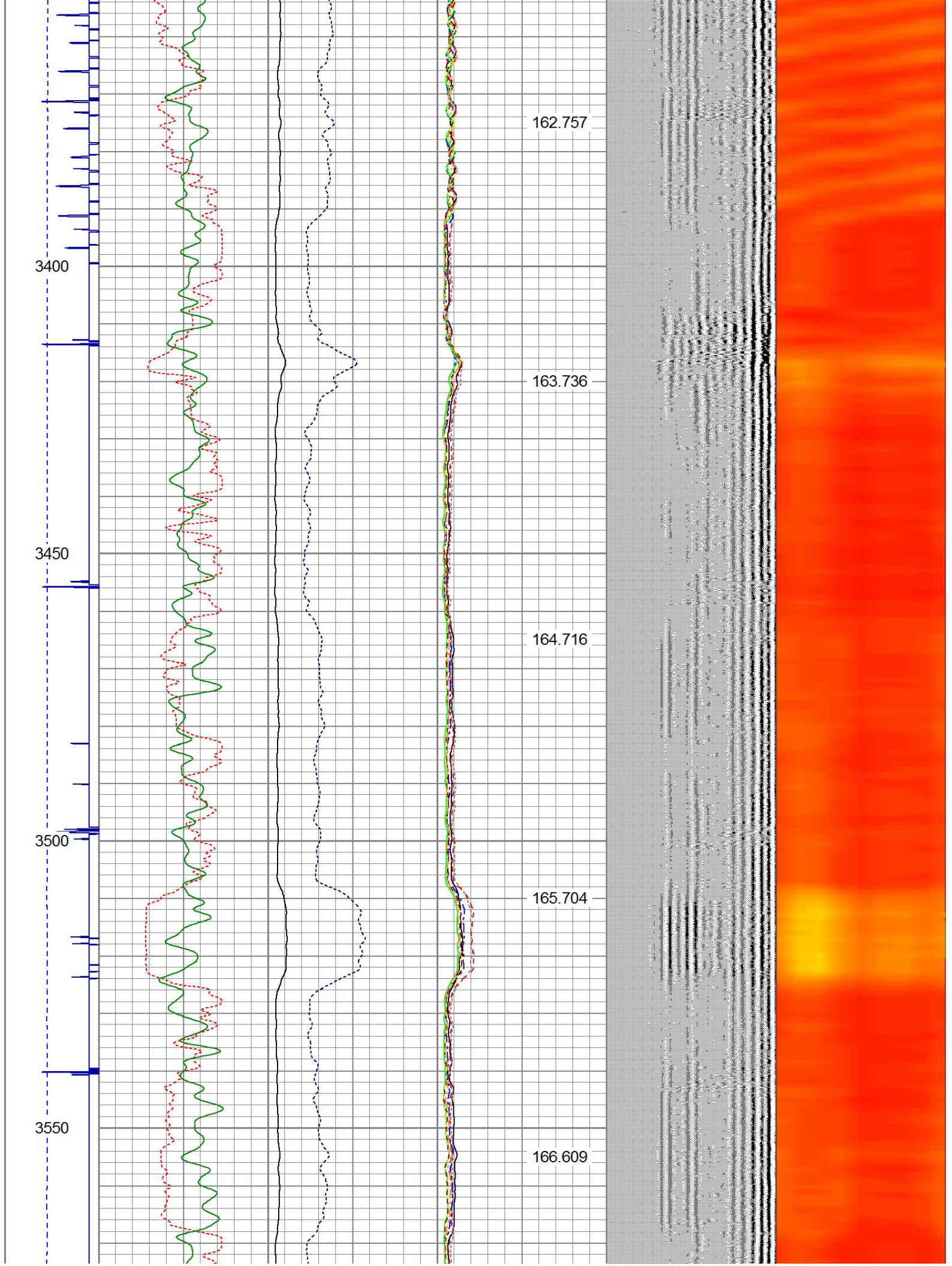
160.626

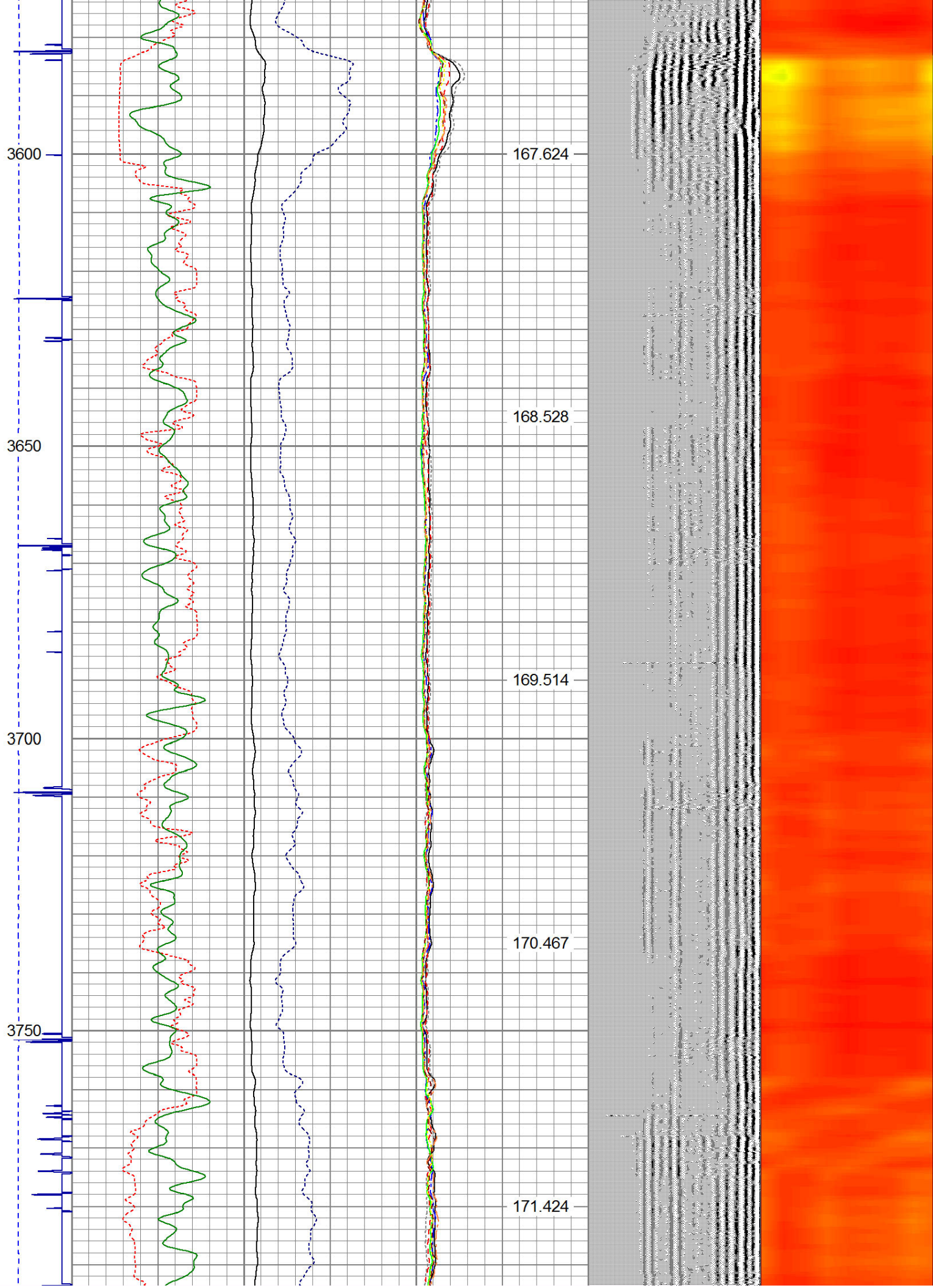
3300

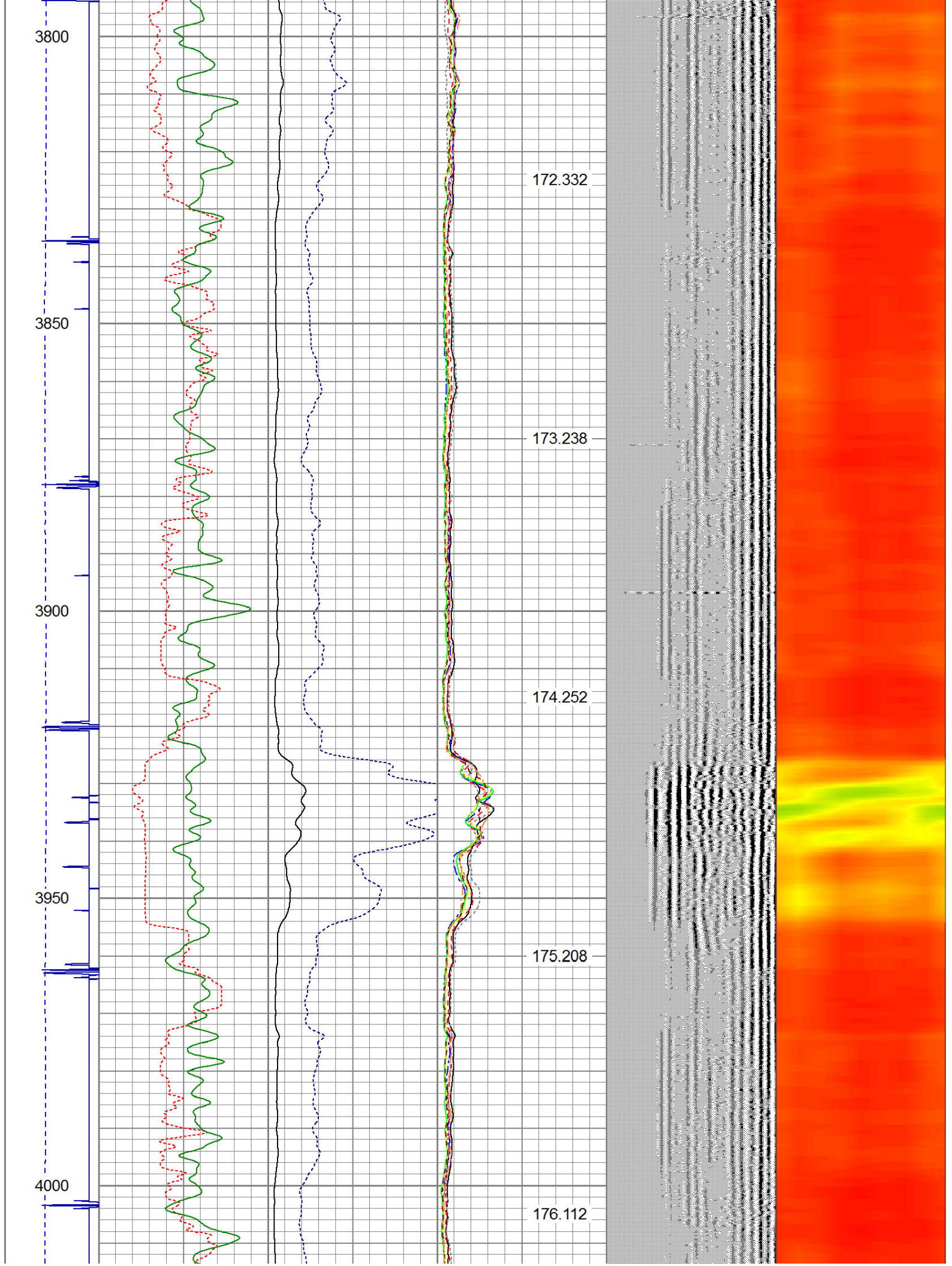
161.7

3350









4050

176.97

4100

177.817

4150

178.726

4200 LSPD

179.612

TT

GR

CCL

AMPS8

AMPS7

AMPS6

AMPS5

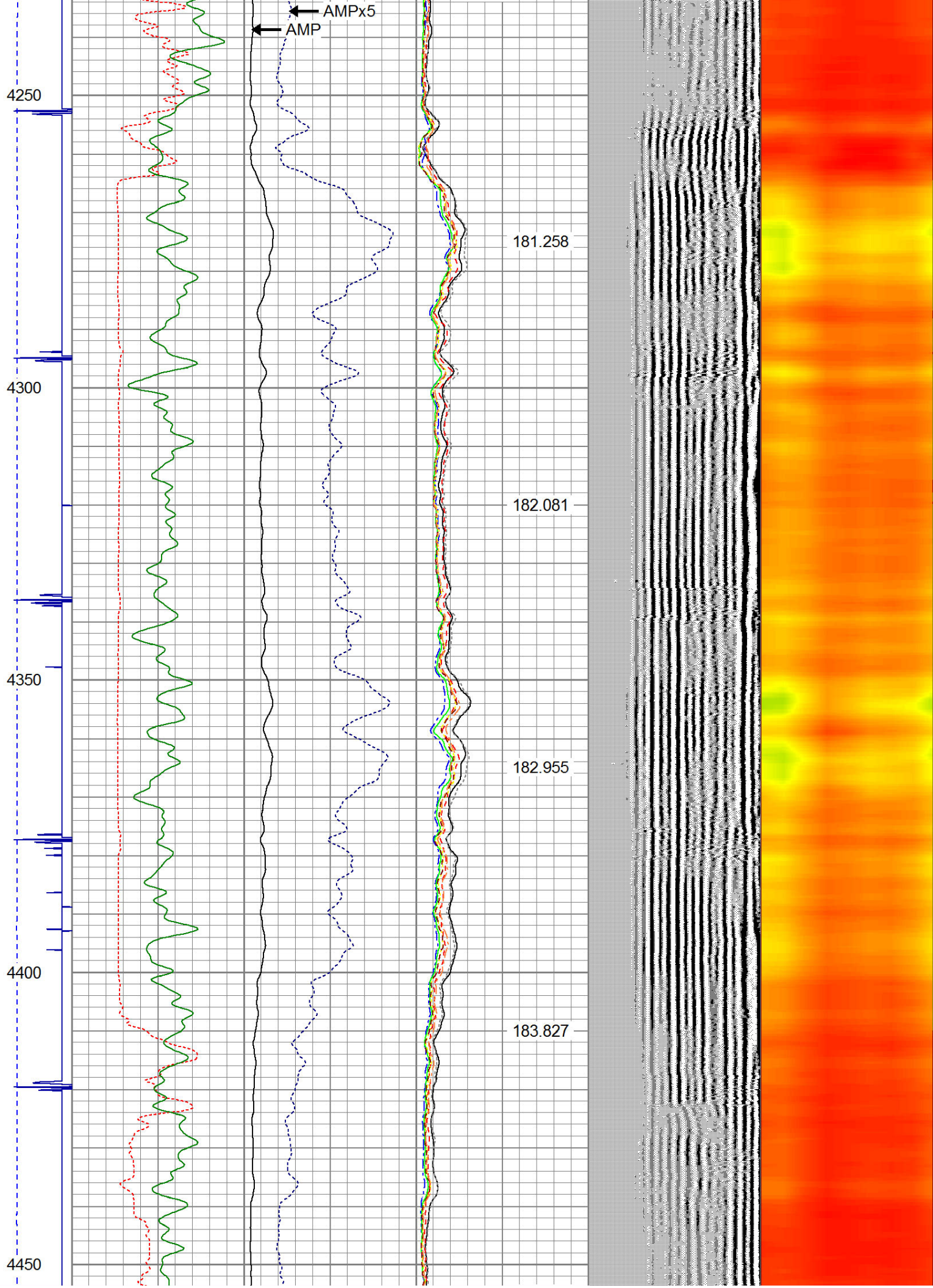
AMPS4

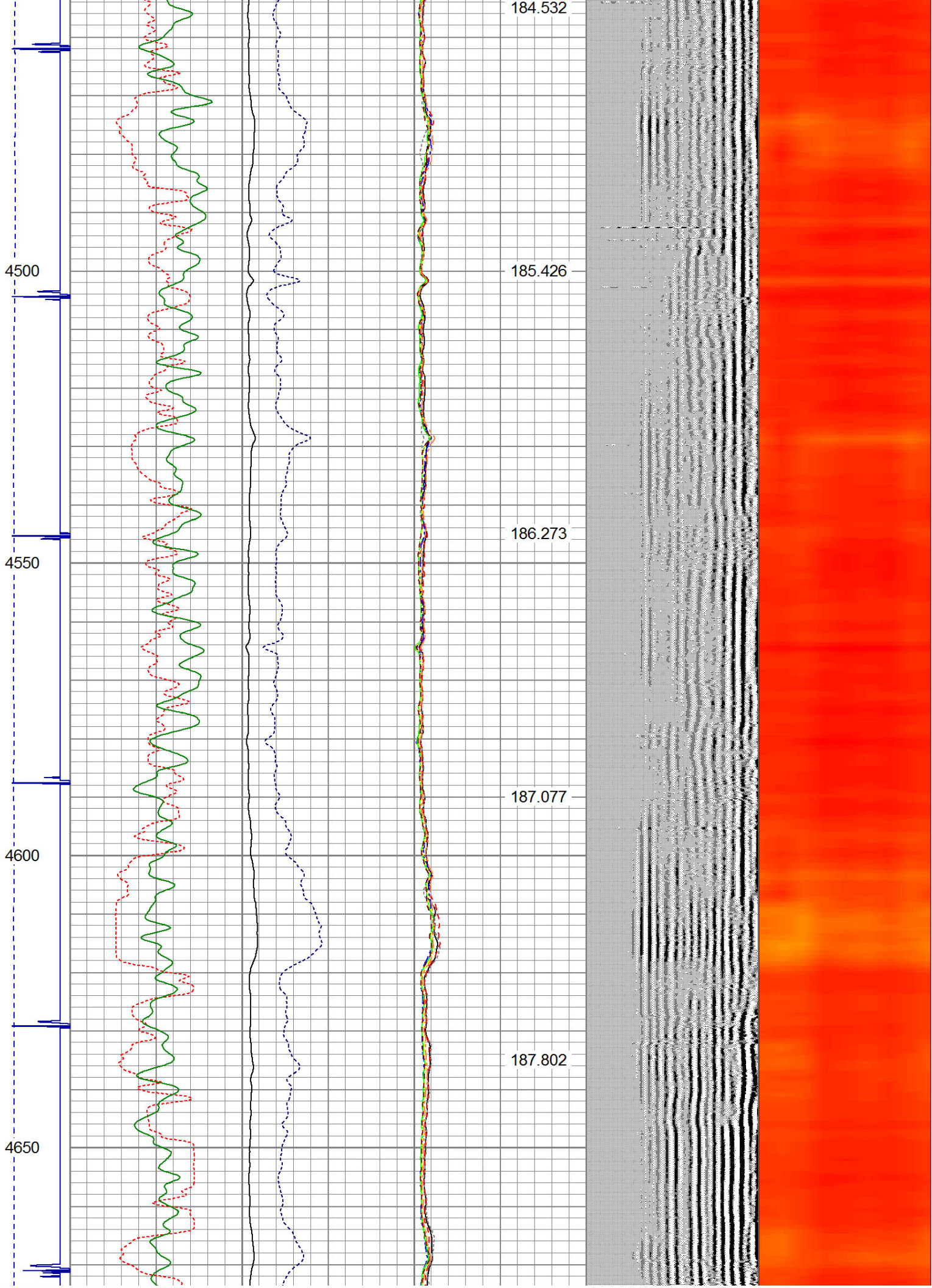
AMPS3

AMPS2

AMPS1

180.399





4700

4750

4800

4850

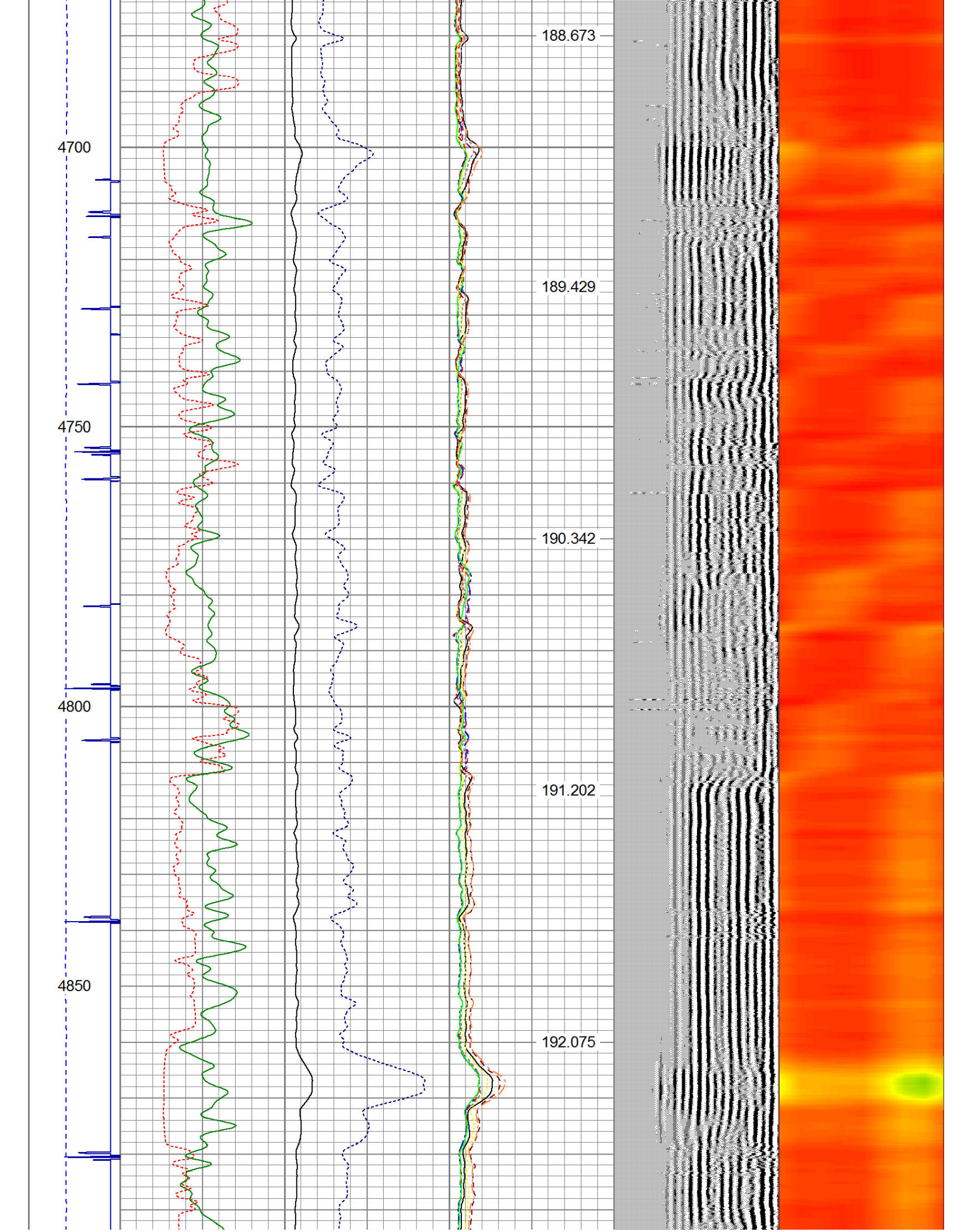
188.673

189.429

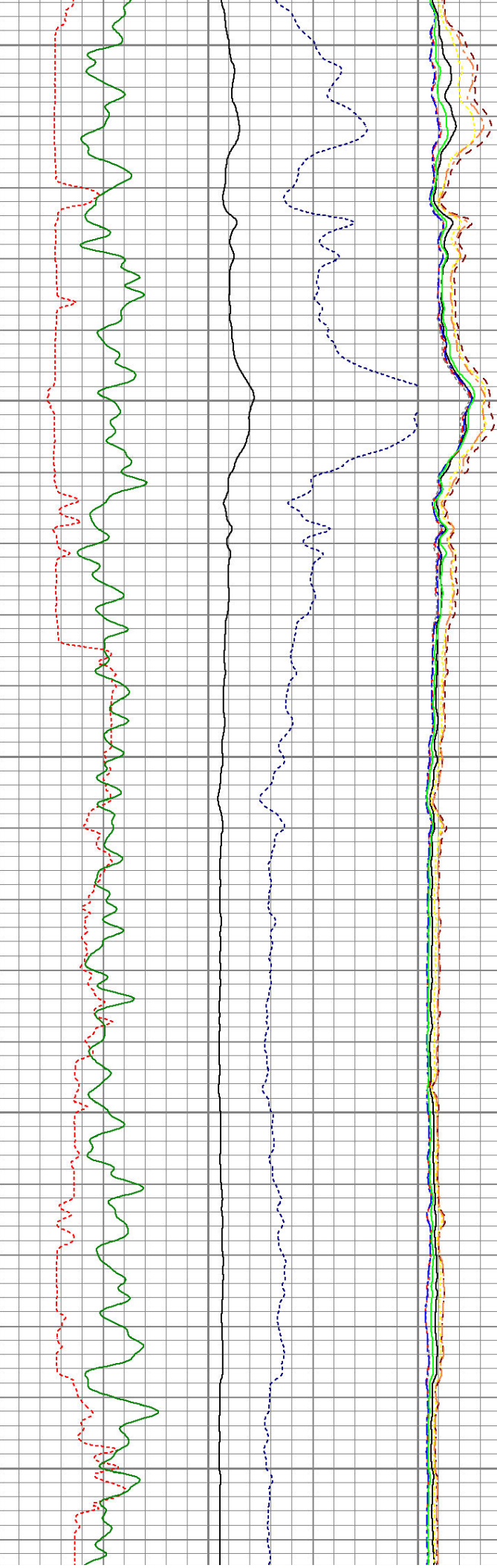
190.342

191.202

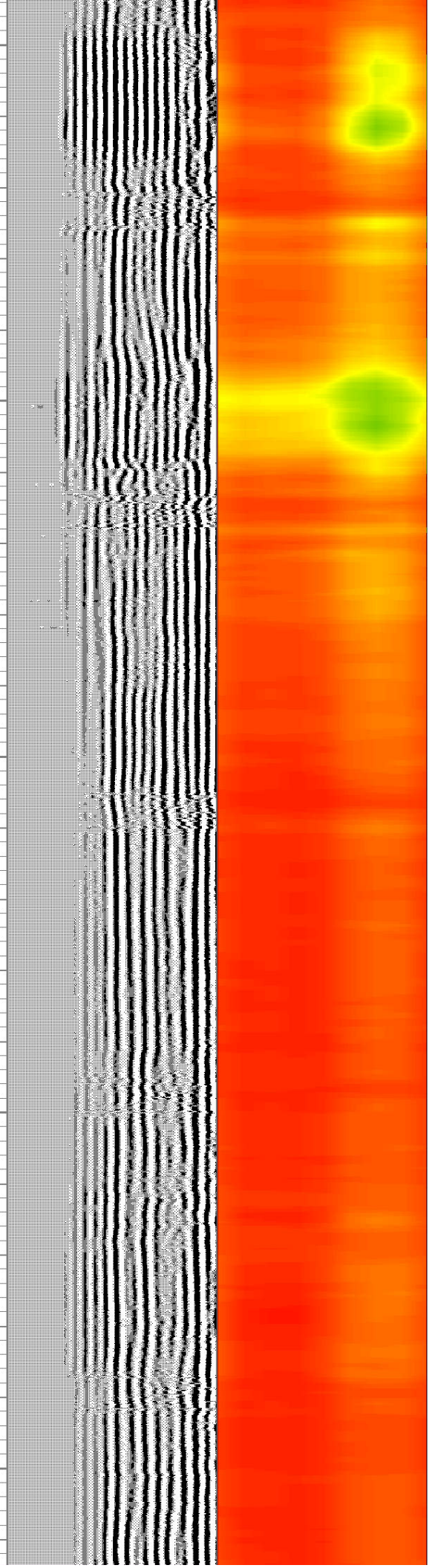
192.075



4900
4950
5000
5050
5100



192.953
193.849
194.818
195.705
196.676



5150

5200

5250

5300

197.671

198.642

199.531

200.504

201.465

LSPD

CCL

TT

GR

AMPS8

AMPS7

AMPS6

AMPS5

AMPS4

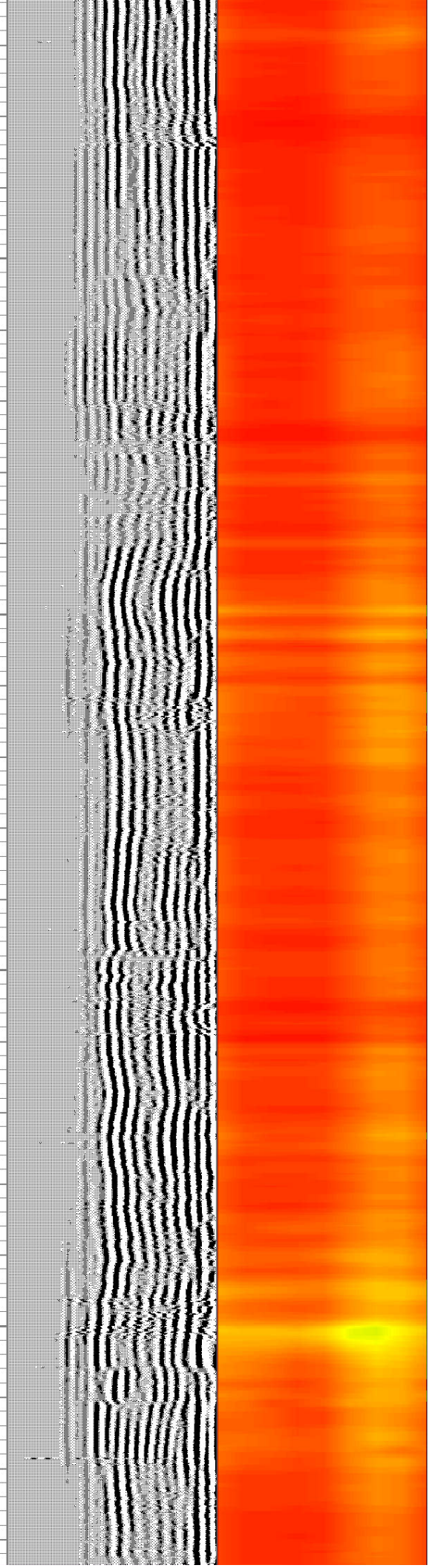
AMPS3

AMPS2

AMPS1

AMPx5

AMP



5350

5400

5450

5500

5550

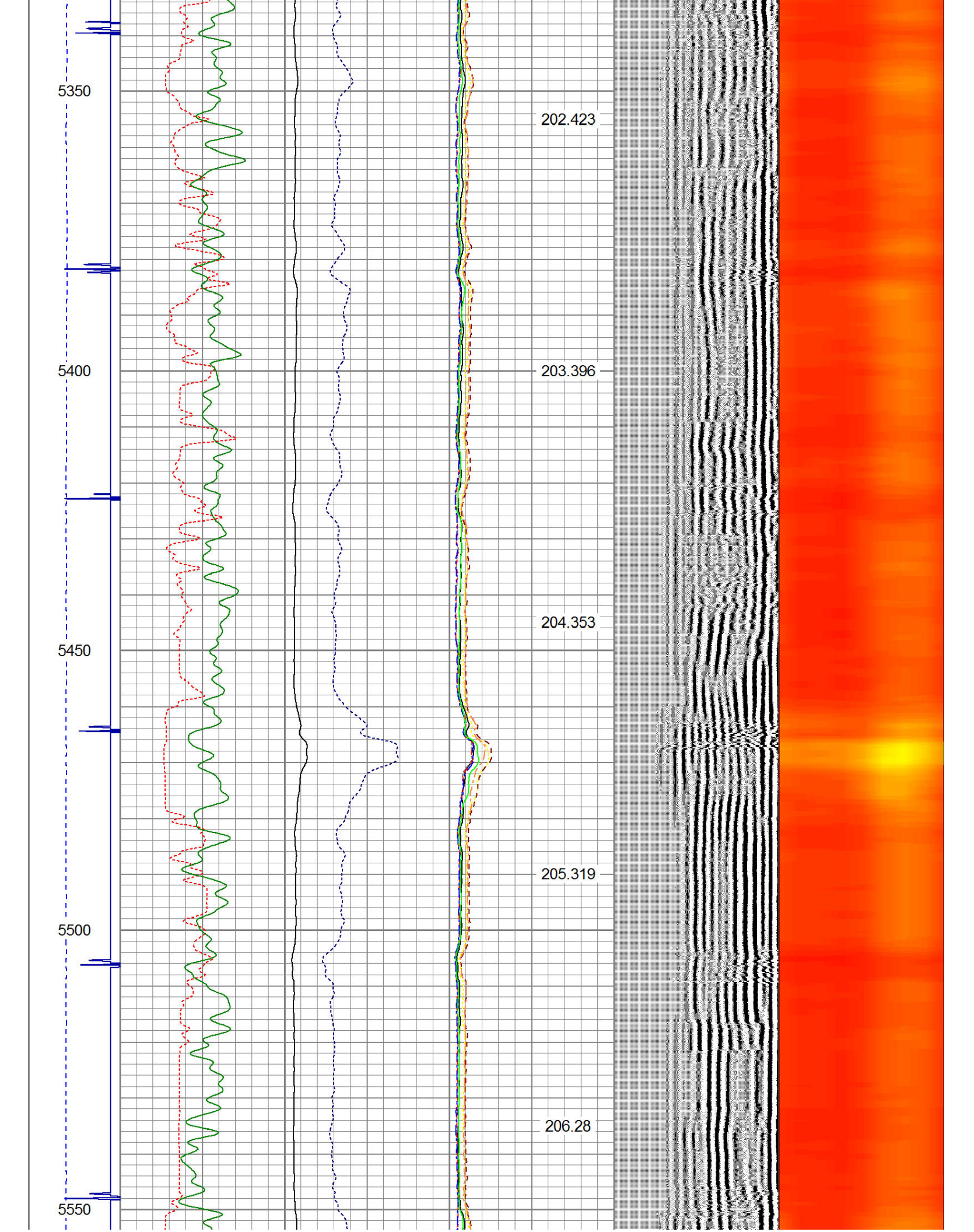
202.423

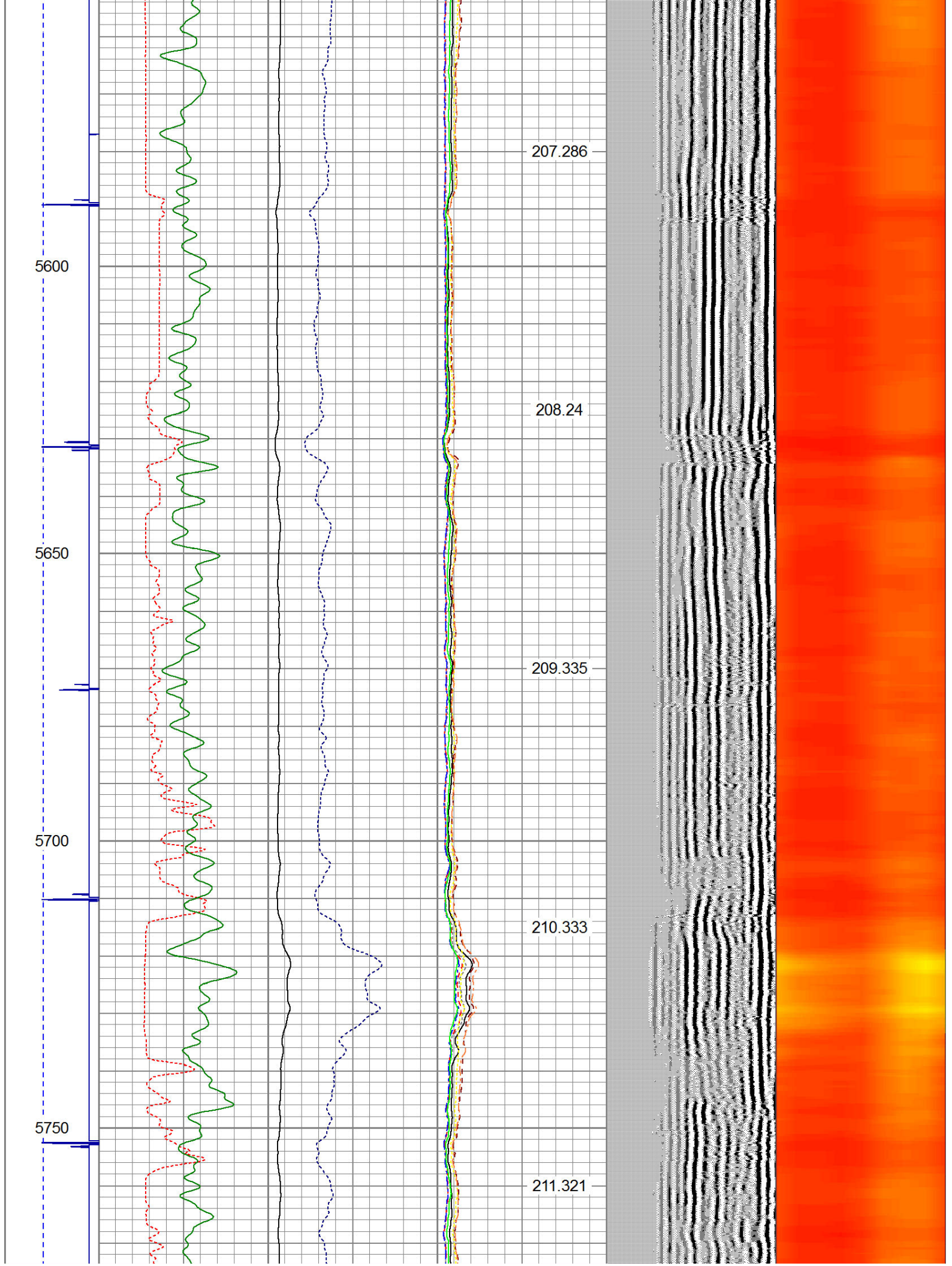
203.396

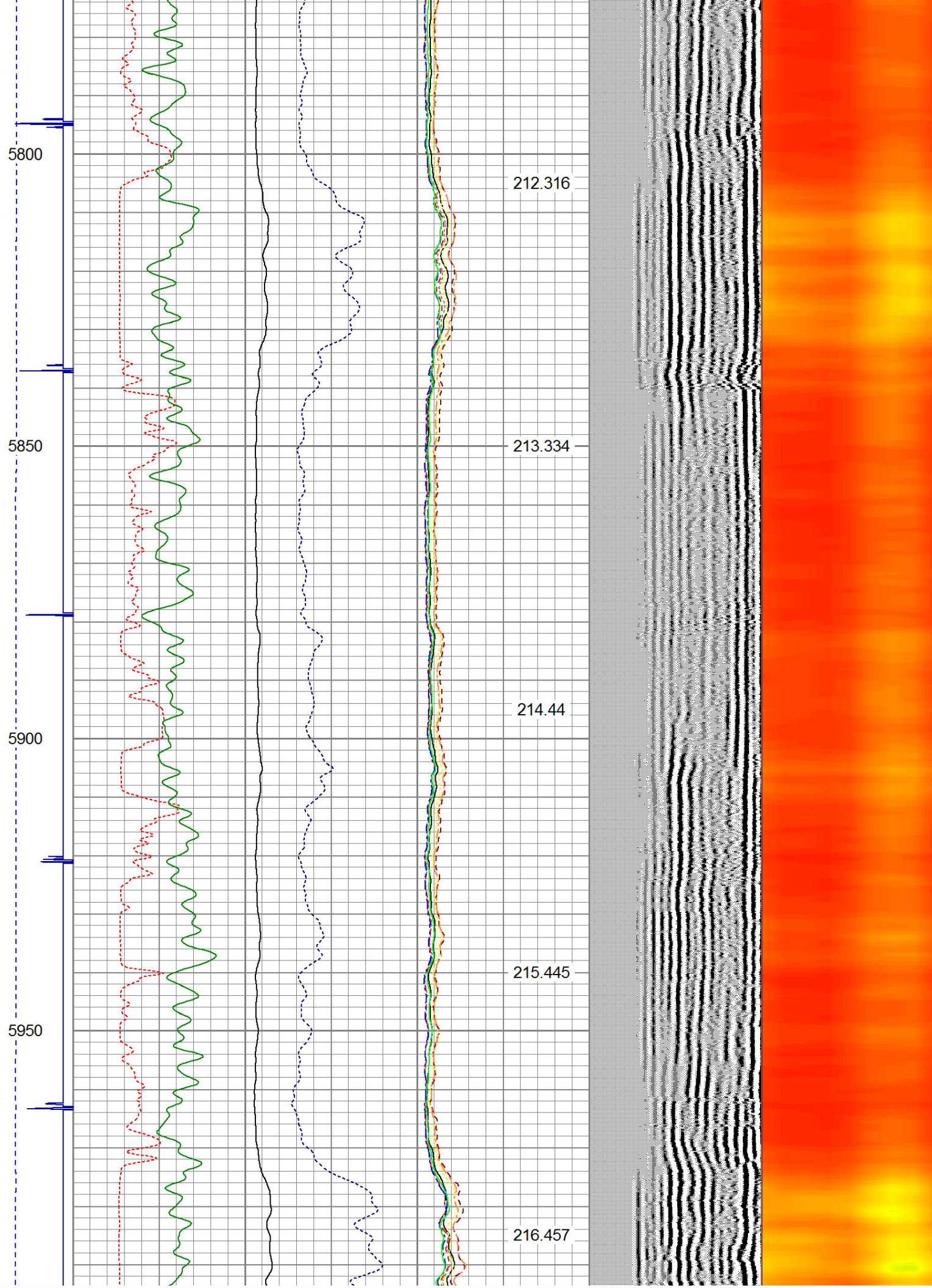
204.353

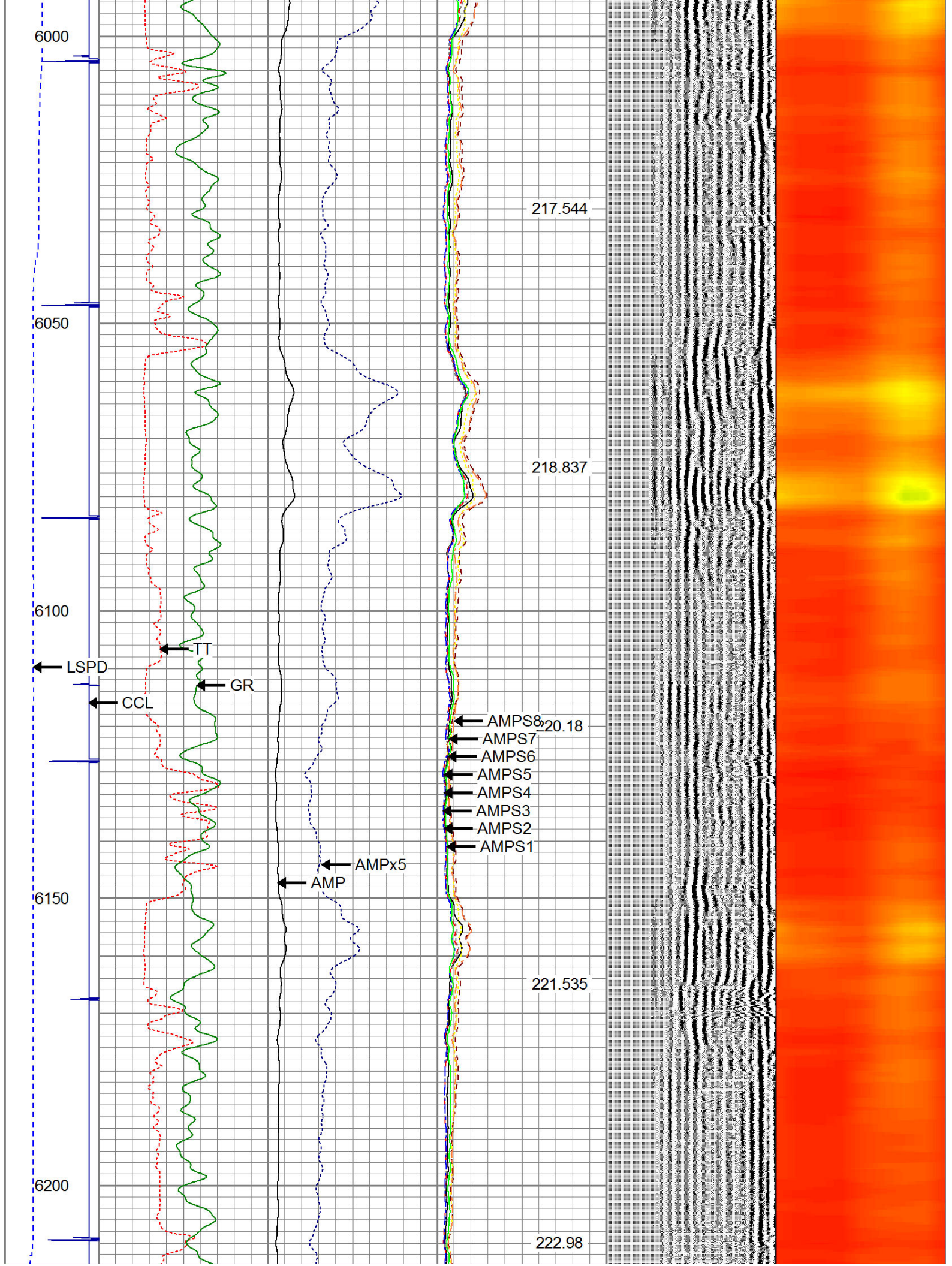
205.319

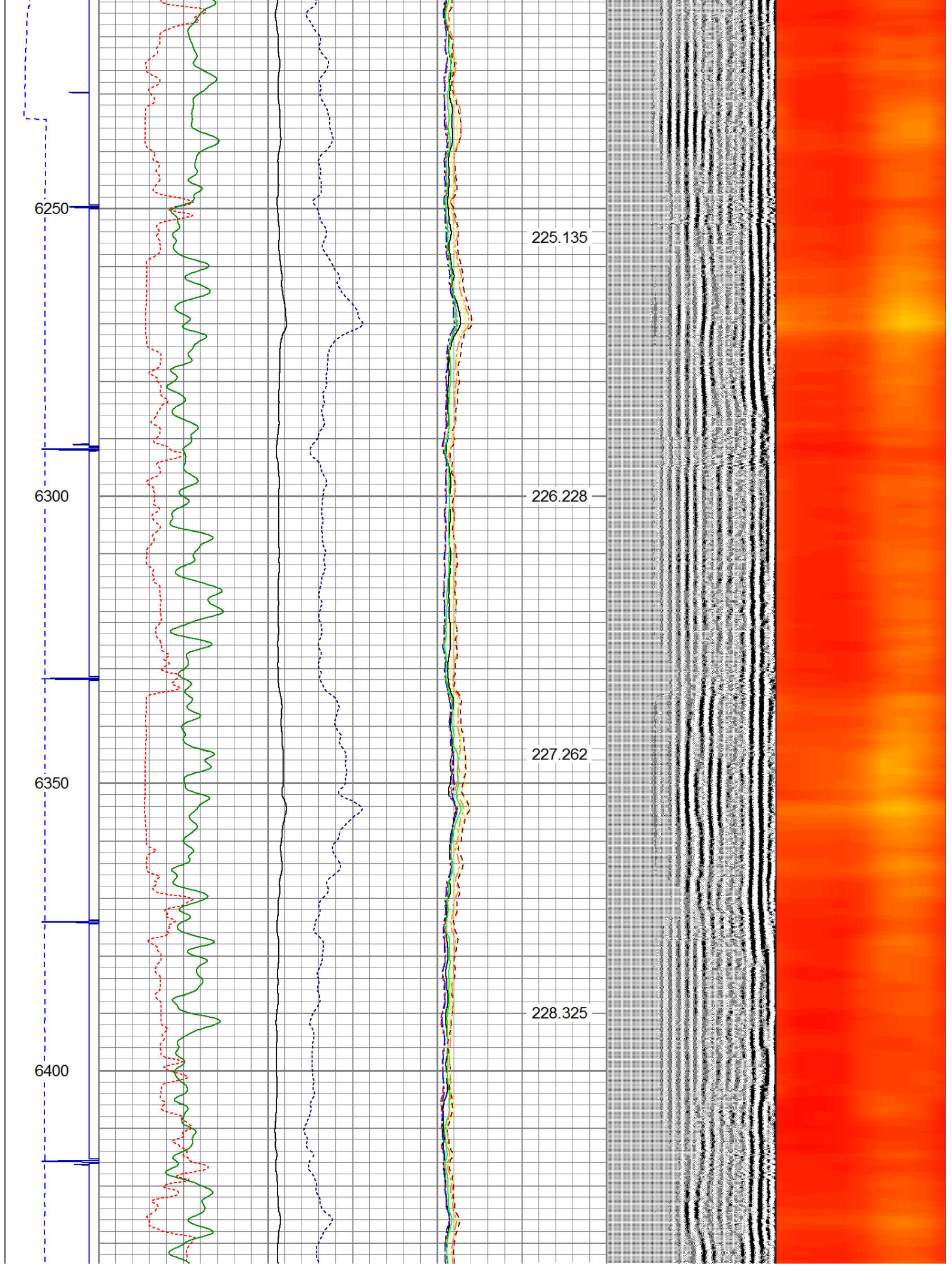
206.28











6450

6500

6550

6600

6650

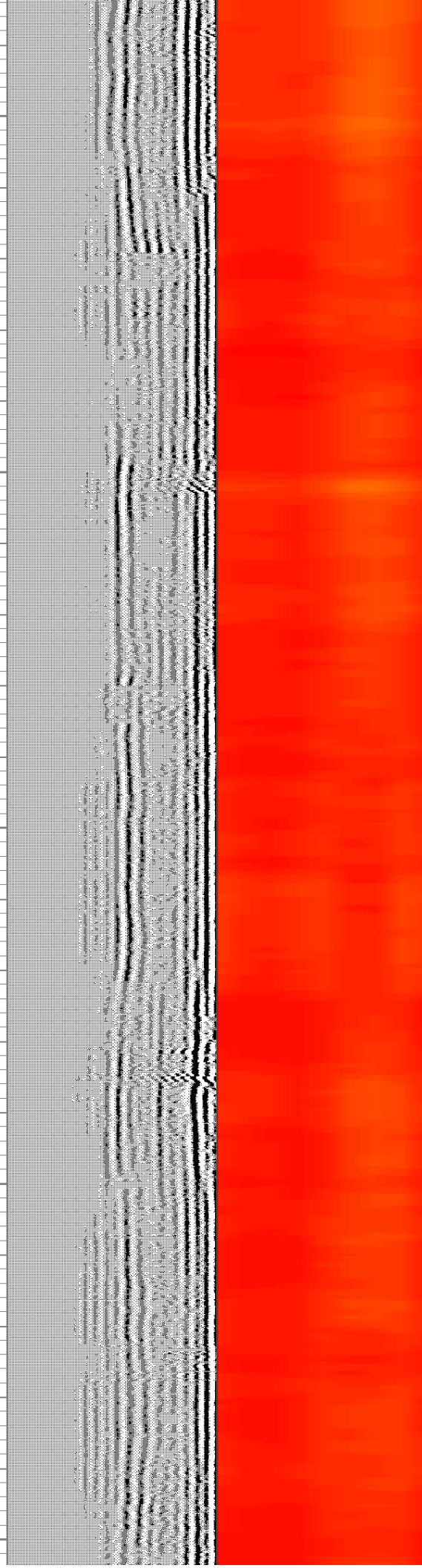
229.448

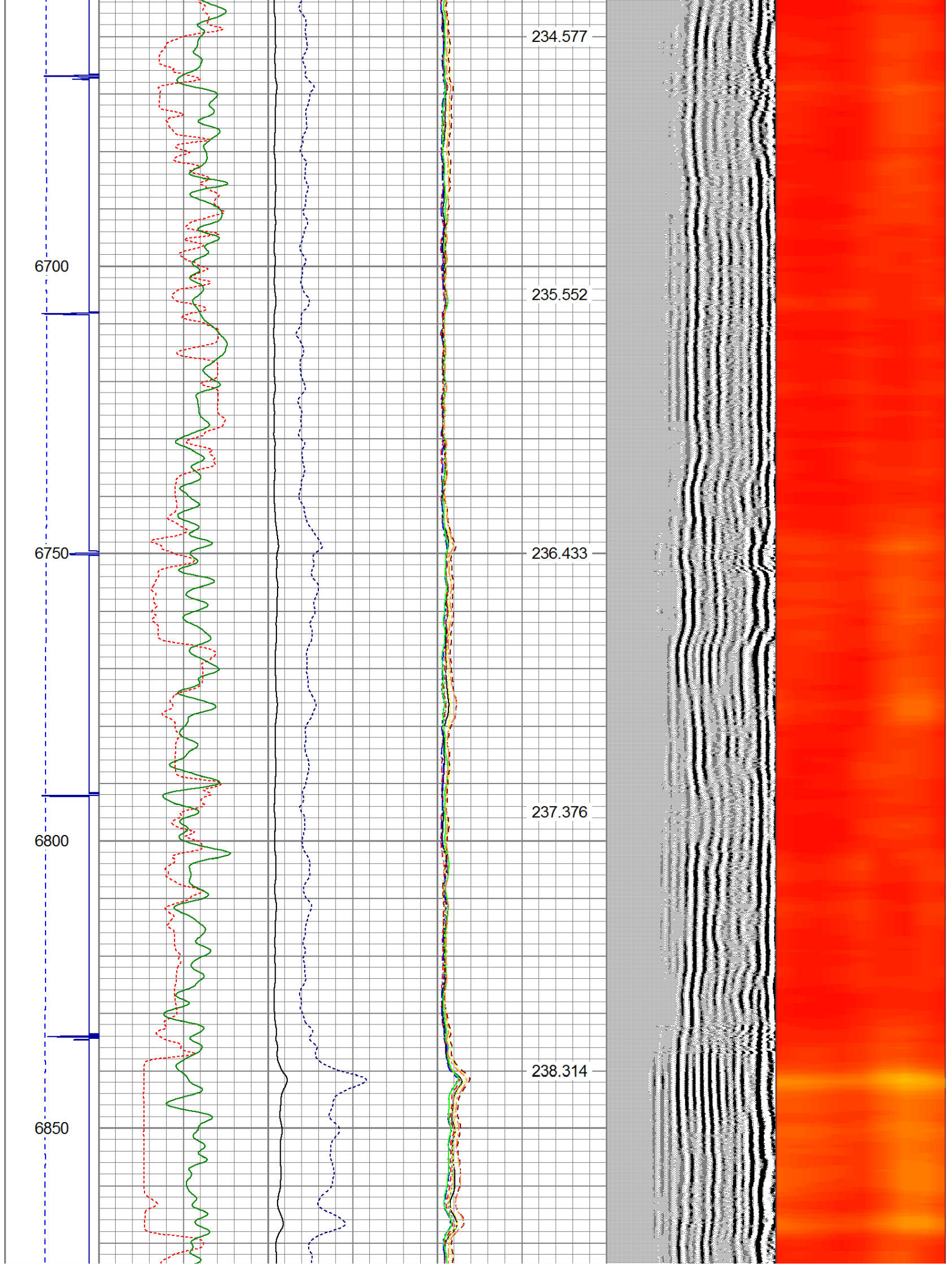
230.439

231.537

232.612

233.576





6900

6950

7000

7050

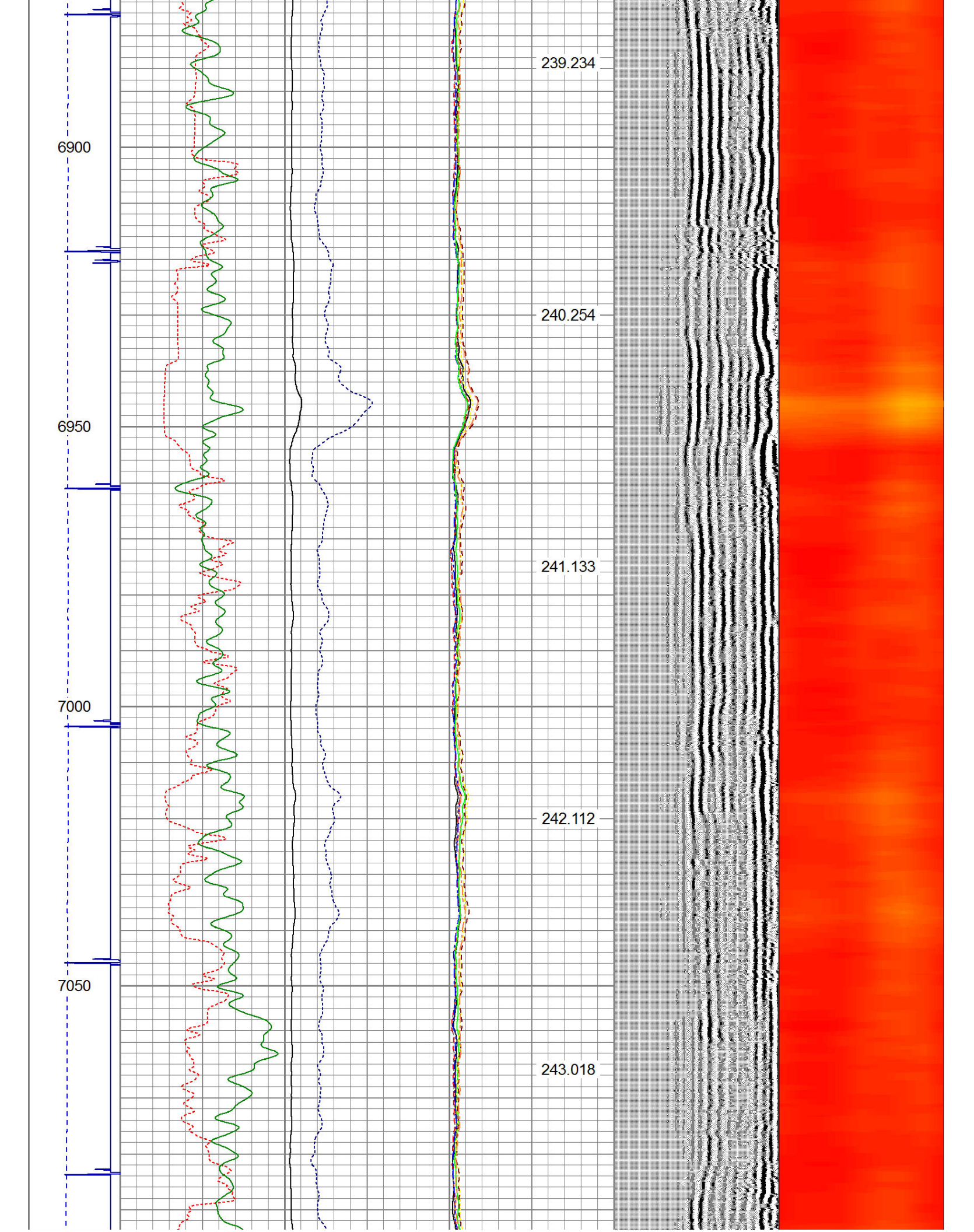
239.234

240.254

241.133

242.112

243.018



7100

7150

7200

7250

7300

244.009

244.887

245.911

246.82

247.696

LSPD

CCL

TT

GR

AMPx5

AMP

AMPS8

AMPS7

AMPS6

AMPS5

AMPS4

AMPS3

AMPS2

AMPS1

7350

7400

7450

7500

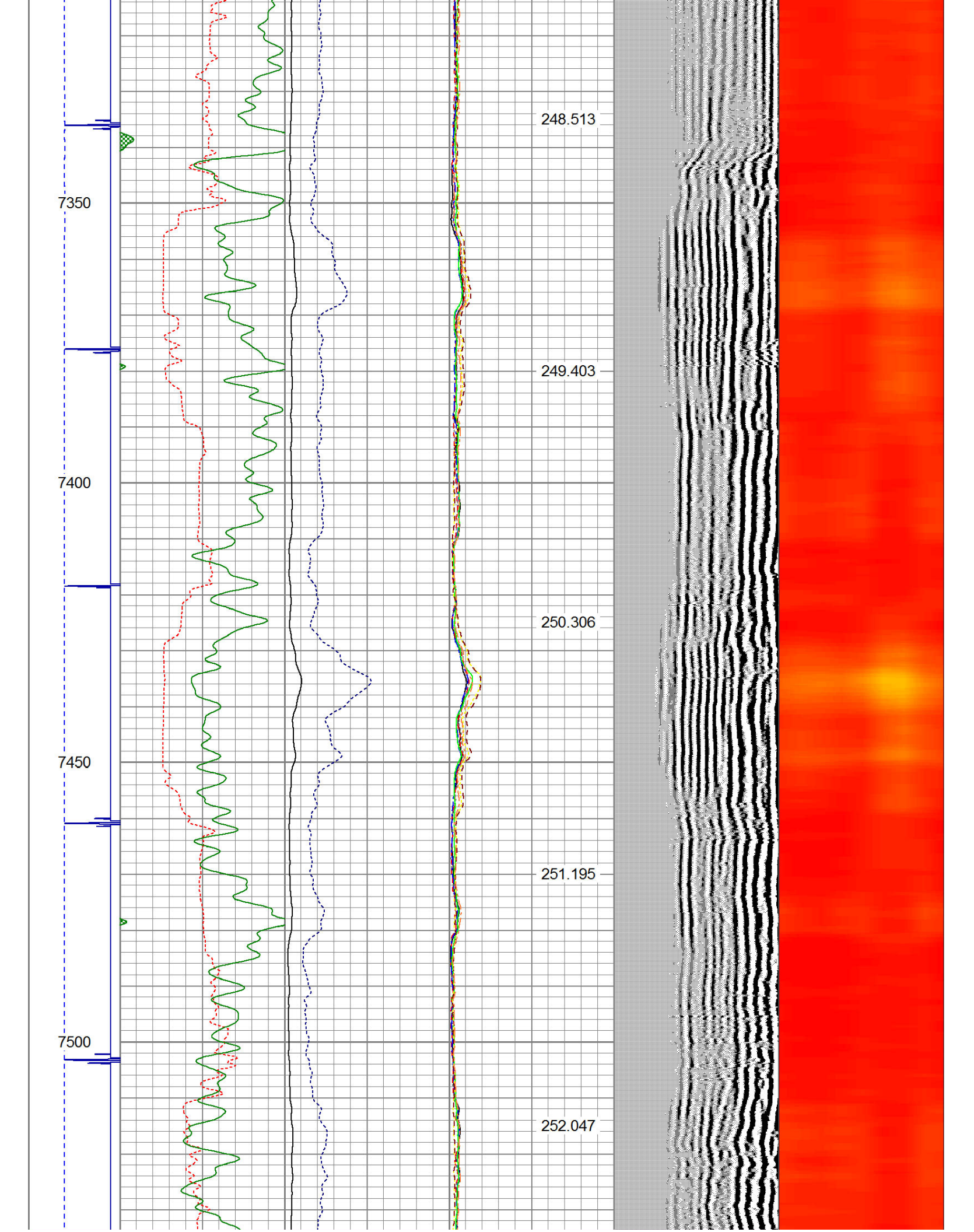
248.513

249.403

250.306

251.195

252.047



7550

7600

7650

7700

7750

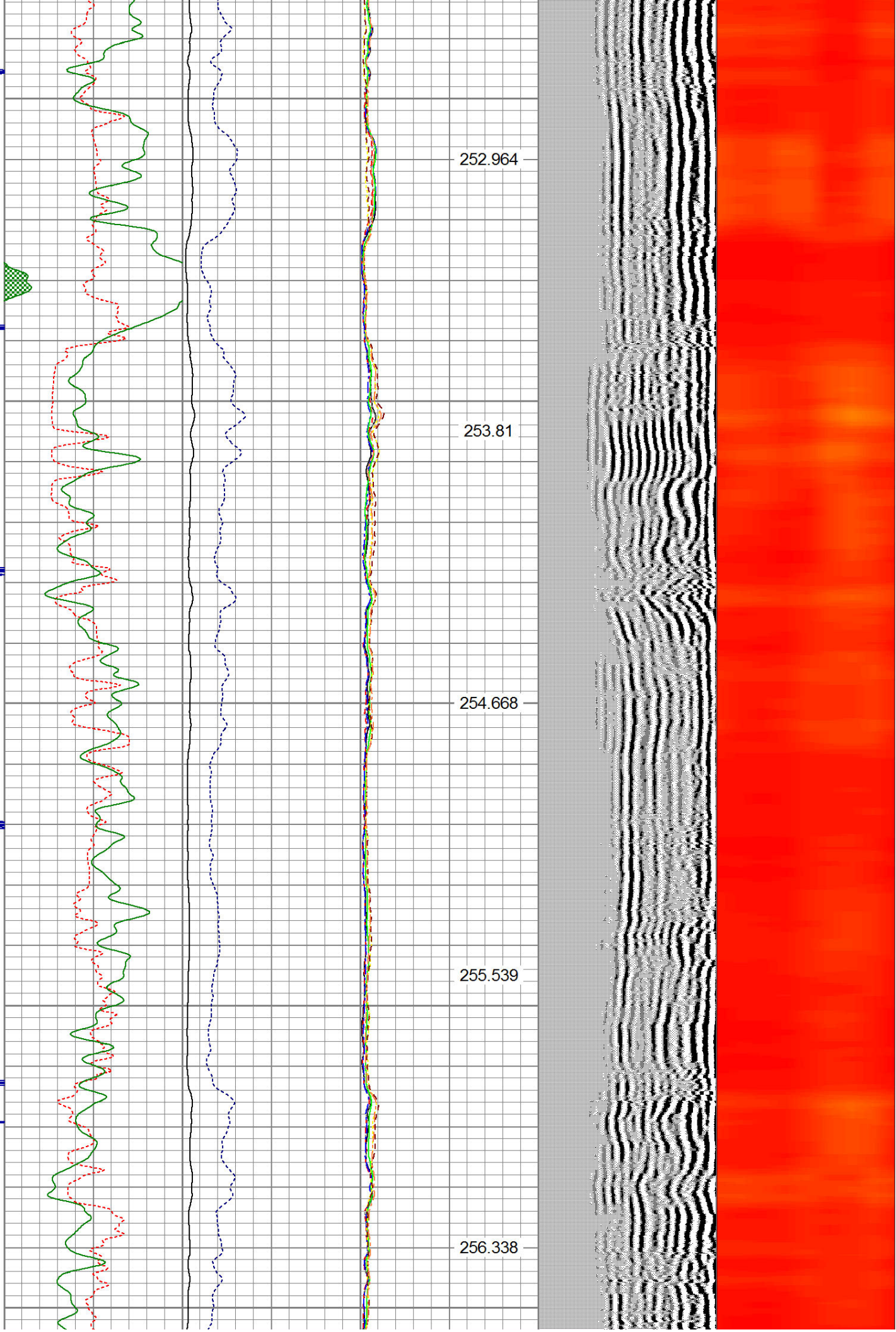
252.964

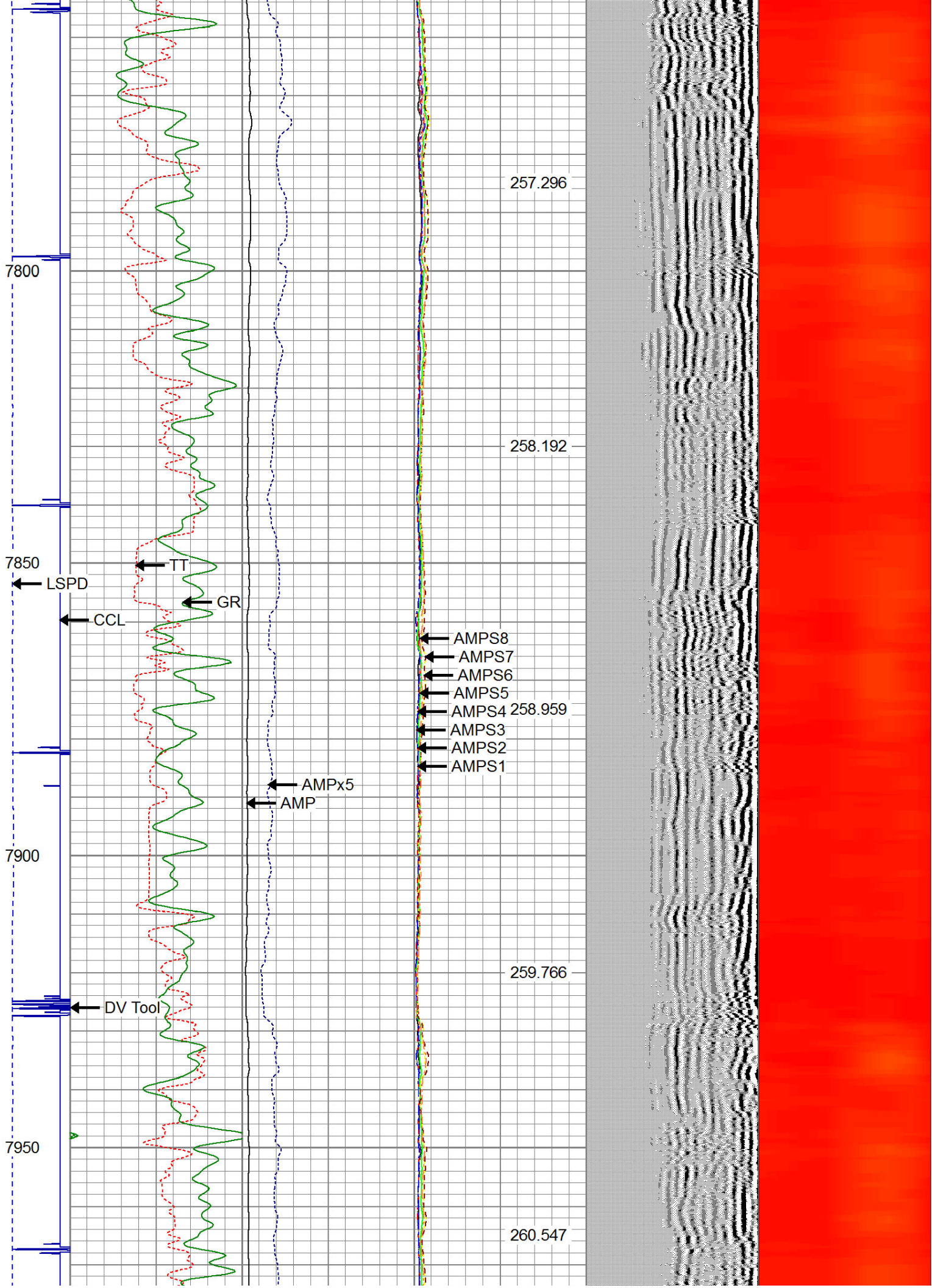
253.81

254.668

255.539

256.338





8000

261.225

8050

261.859

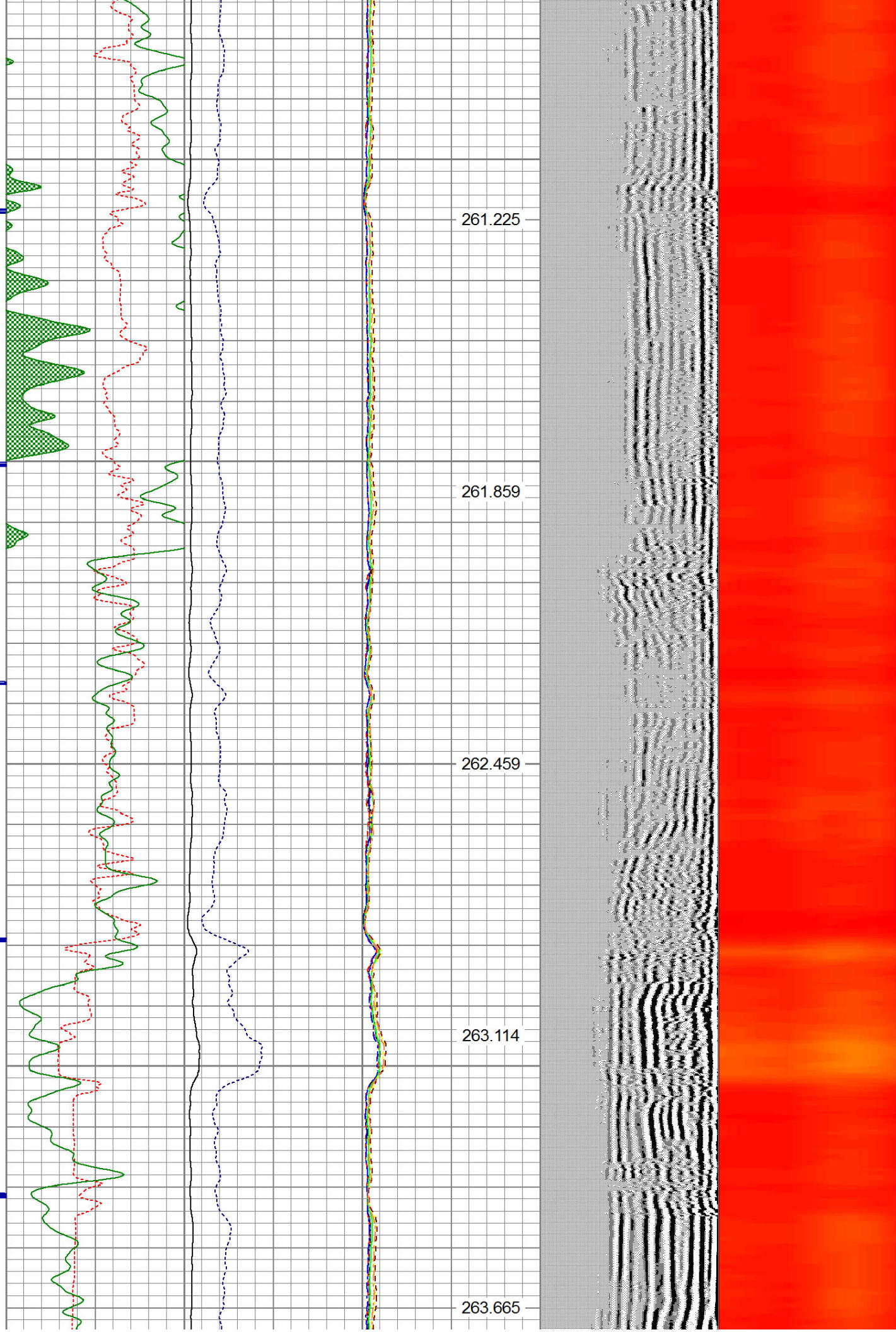
8100

262.459

8150

263.114

263.665



8200 LSPD
← CCL
← TT
← GR

← AMPS8
← AMPS7
← AMPS6
← AMPS5
← AMPS4
← AMPS3
← AMPS2
← AMPS1

← AMPx5
← AMP

8250

8300

8350

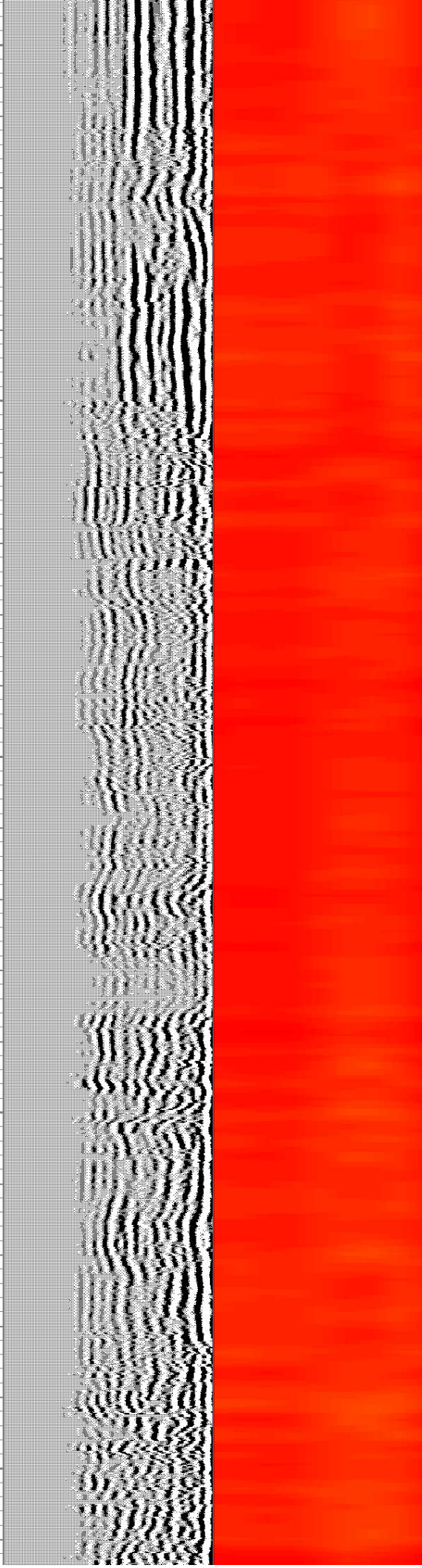
8400

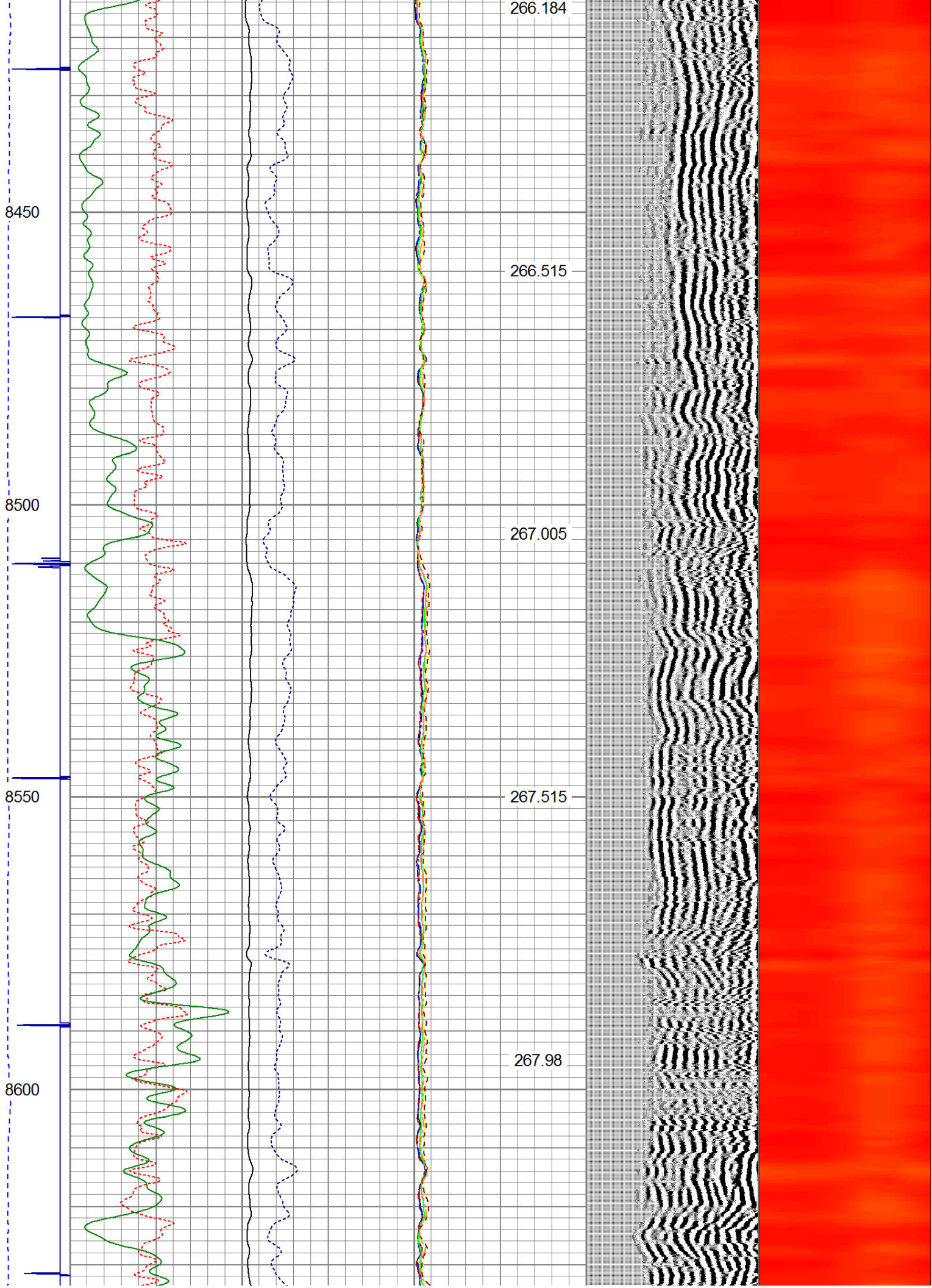
264.227

264.822

265.258

265.74





8650

8700

8750

8800

8850

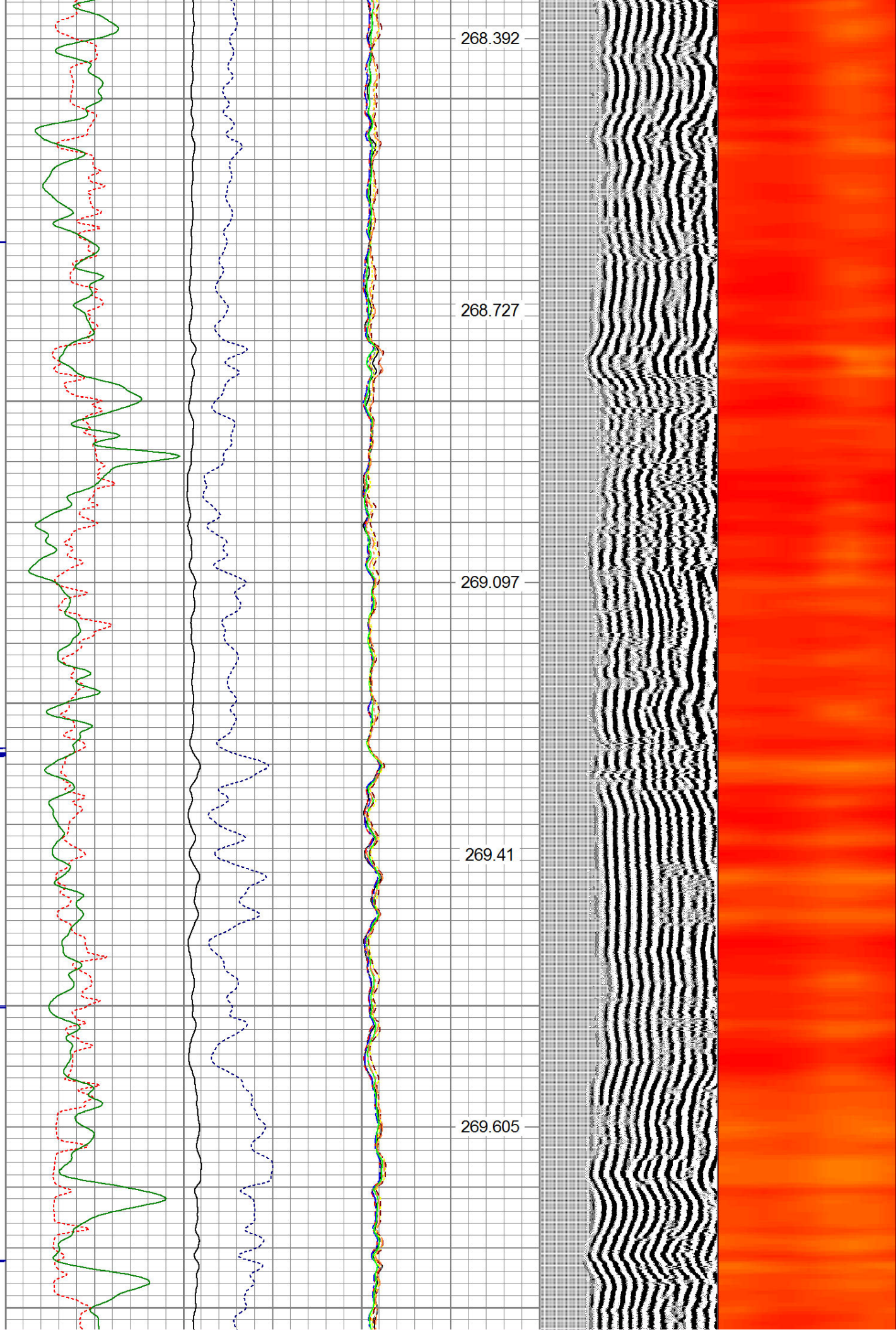
268.392

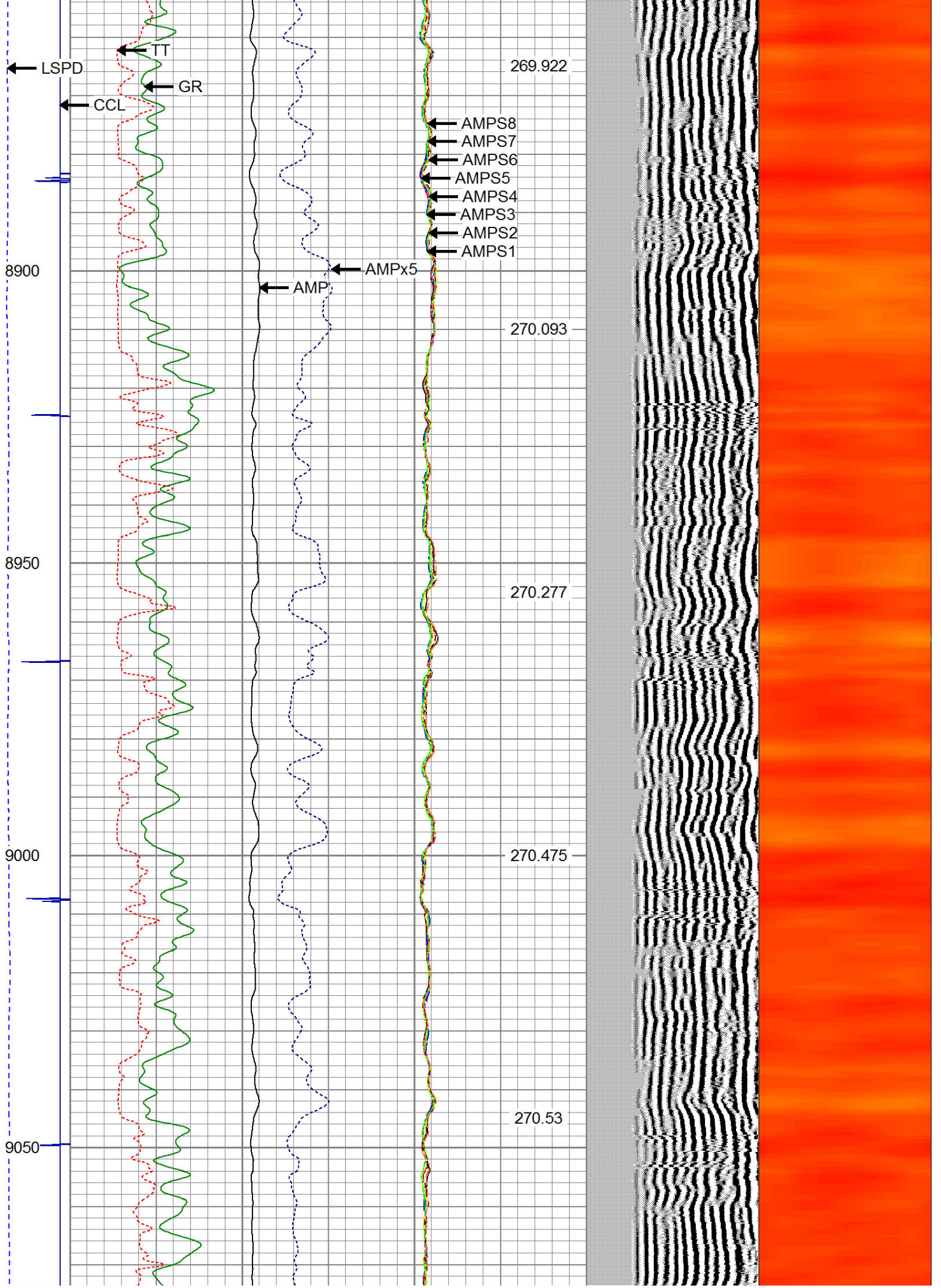
268.727

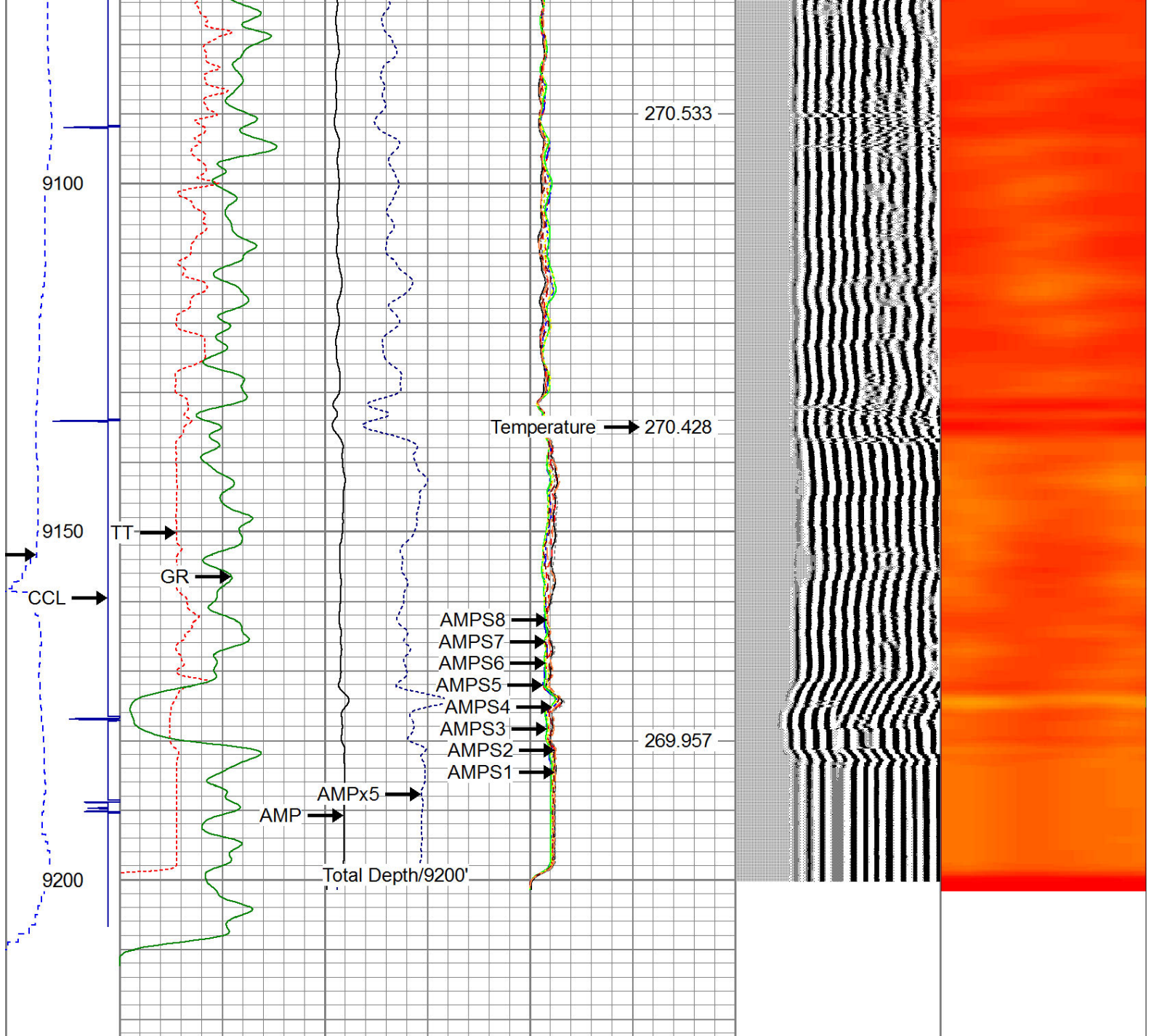
269.097

269.41

269.605







-9	CCL	1	200	TT (usec)	800	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8
LSPD			0	GR (cps)	200	0	AMPx5 (mV)	20	0	AMPS2	100				1		100
(ft/min)			200	GR (cps)	400					AMPS3	100						
0	250									AMPS4	100						
										AMPS5	100						
										AMPS6	100						
										AMPS7	100						
										AMPS8	100						
										IntTemp							
										(degF)							



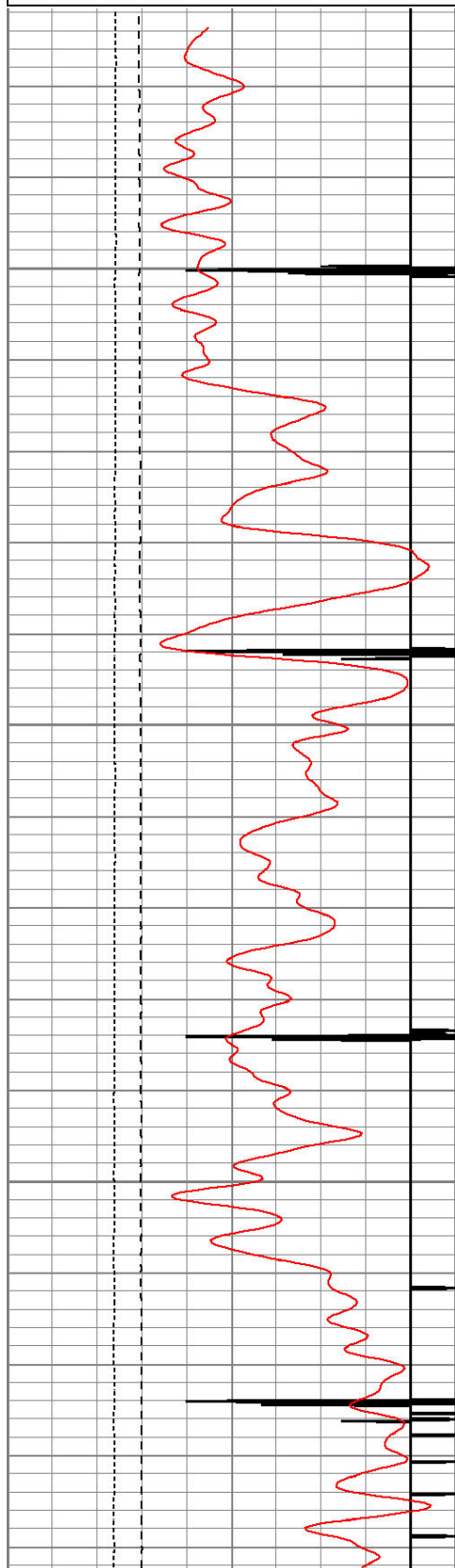
NGL C5A

CCL/Gamma Ray

Maximum Temperature: 270.533 degF

Database File: ngl c5a.db
 Dataset Pathname: pass4
 Presentation Format: gr-ccl
 Dataset Creation: Thu Nov 05 10:05:50 2015 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

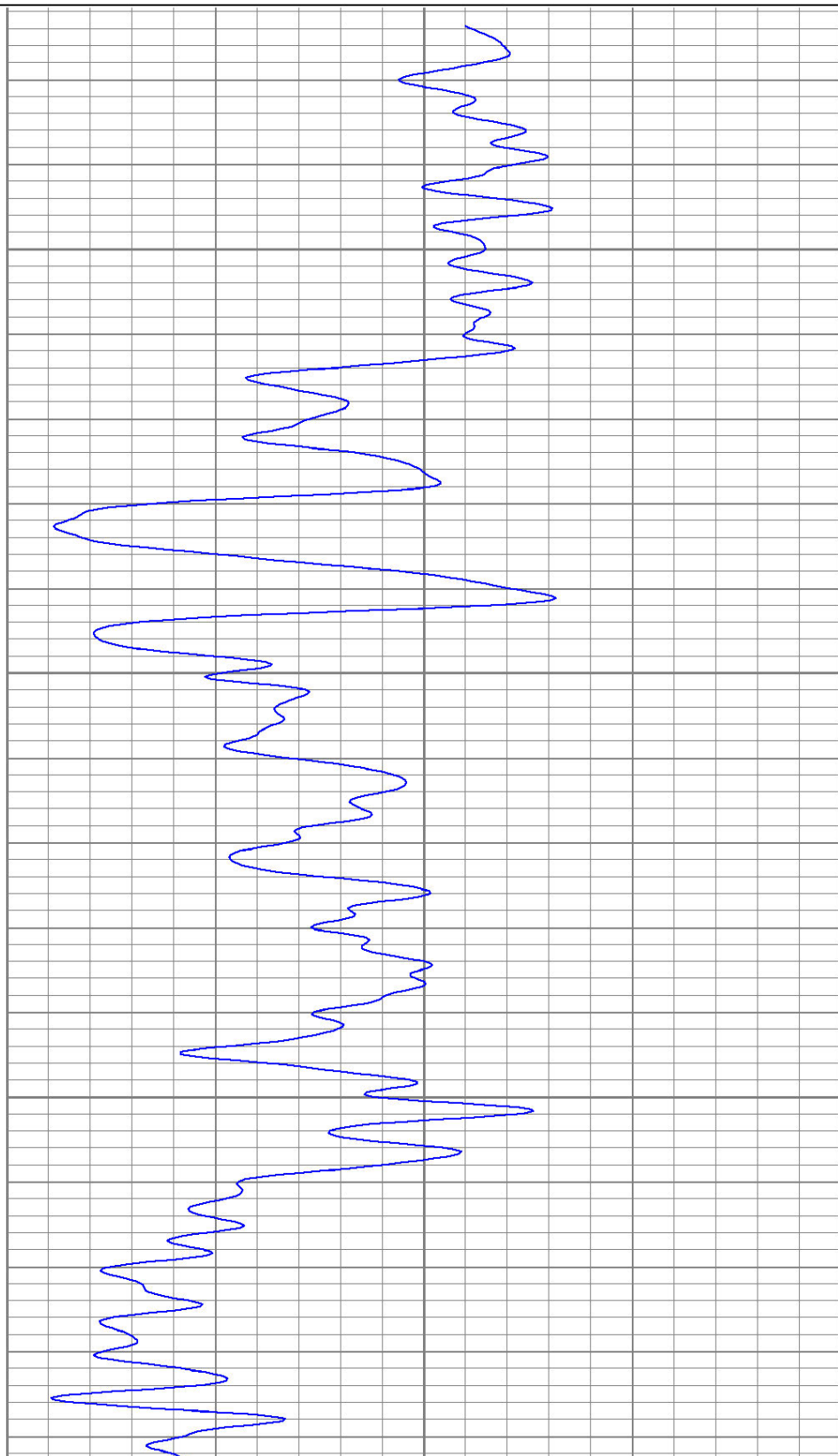
9	CCL	-1	150	GR (cps)	0
0	GR (cps)	150			
0	LTEN (lb)	4000			
0	LSPD (ft/min)	300			

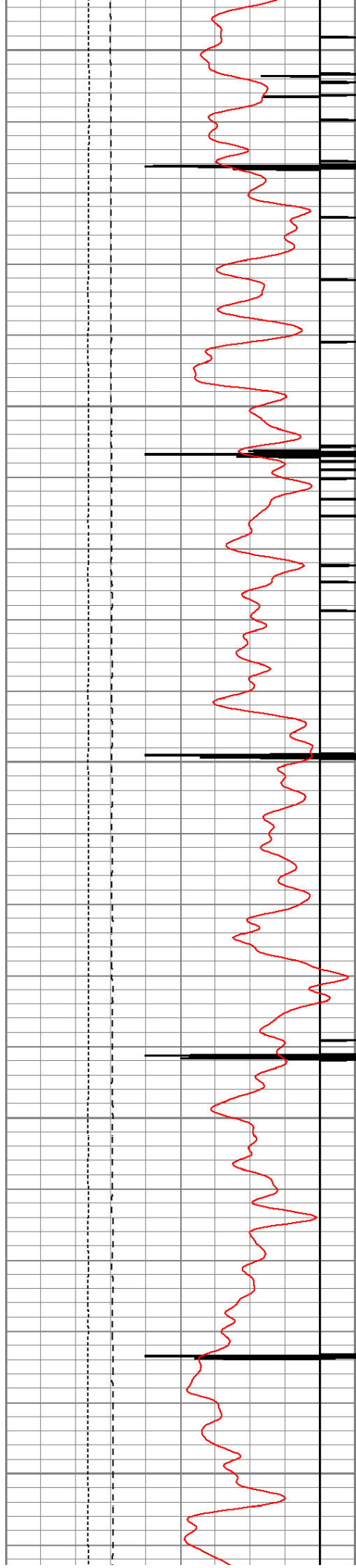


8800

8850

8900





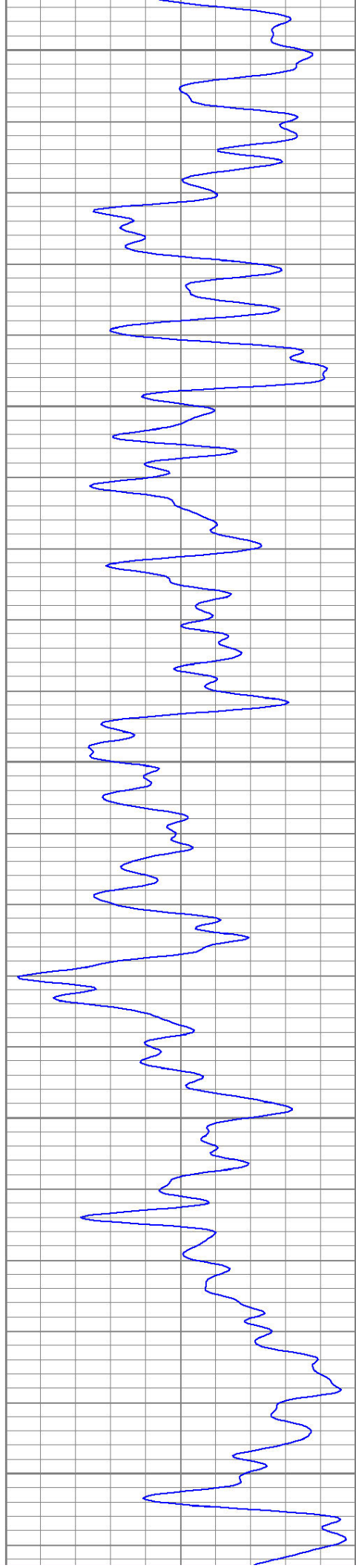
8950

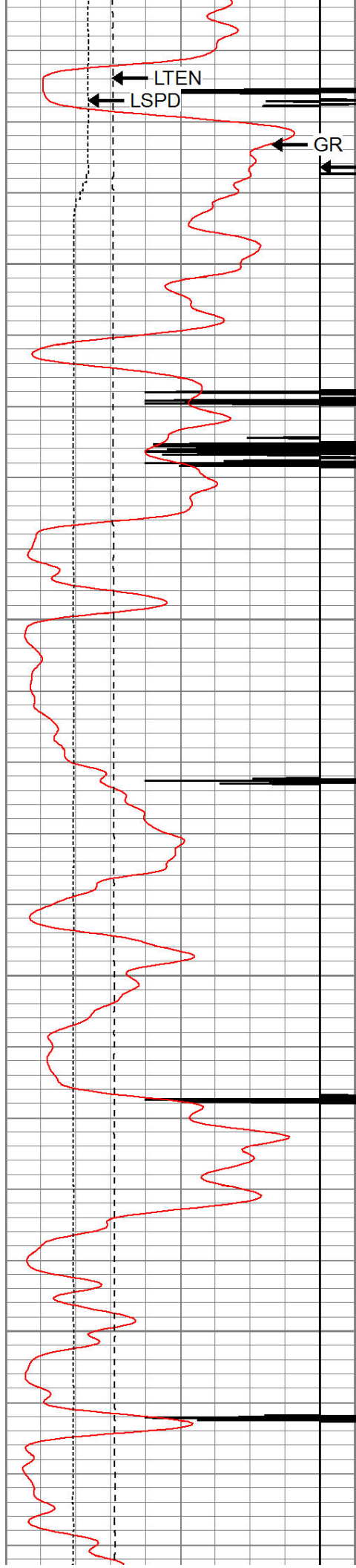
9000

9050

9100

9150





9200

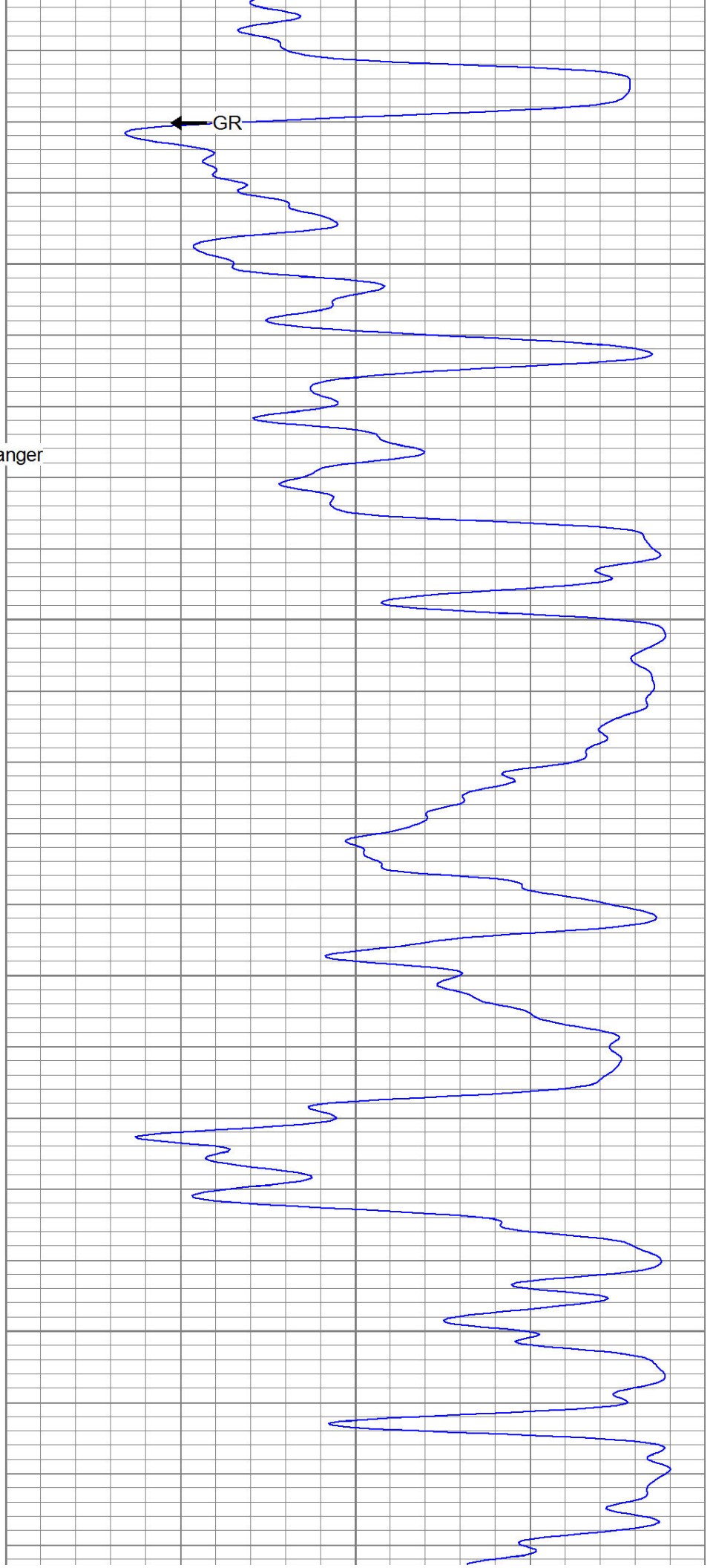
PBR

Liner Hanger

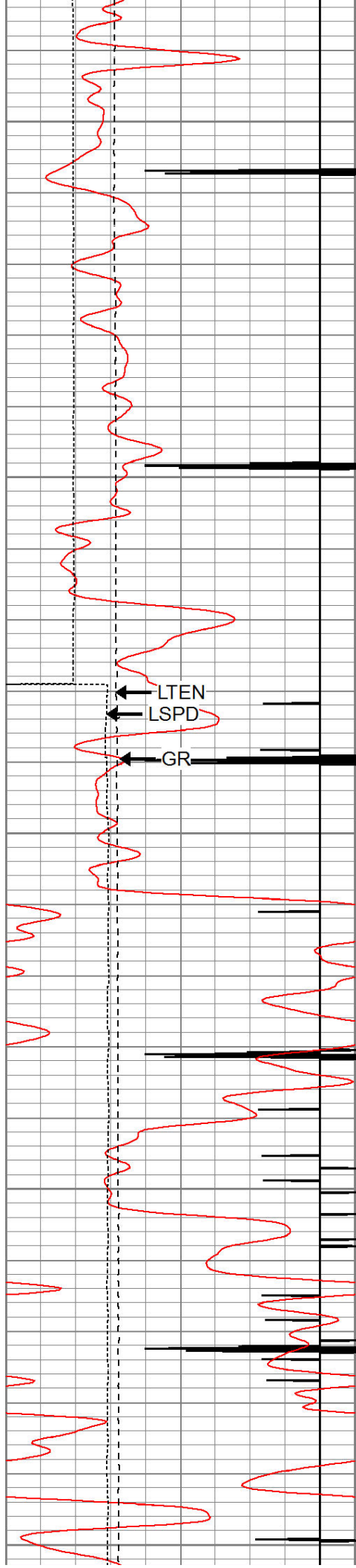
9250

9300

9350



GR



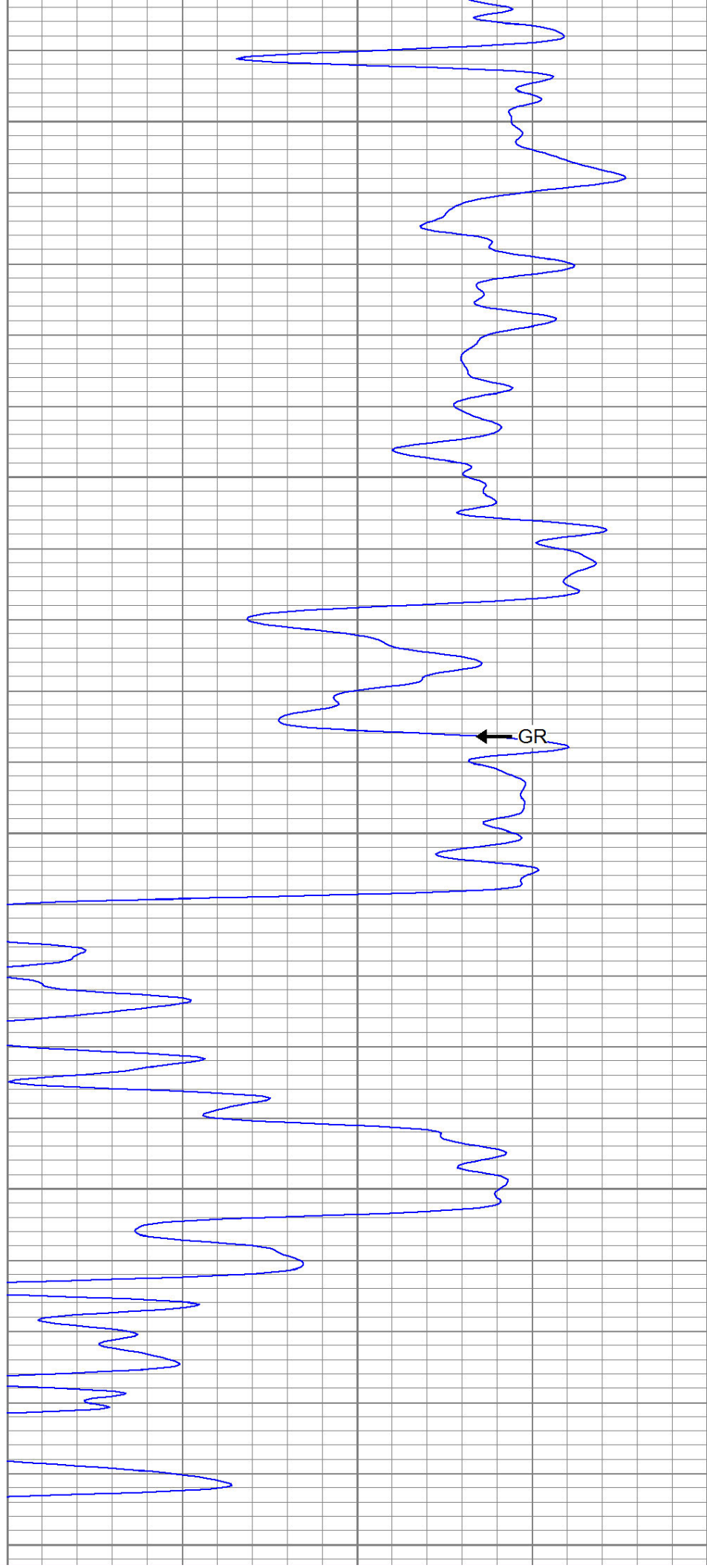
9400

9450

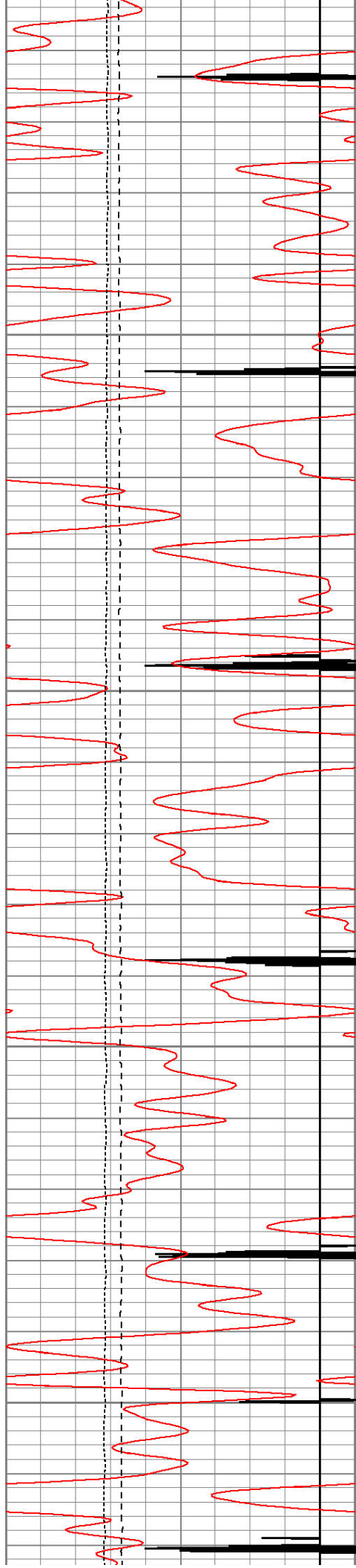
9500

9550

9600



GR

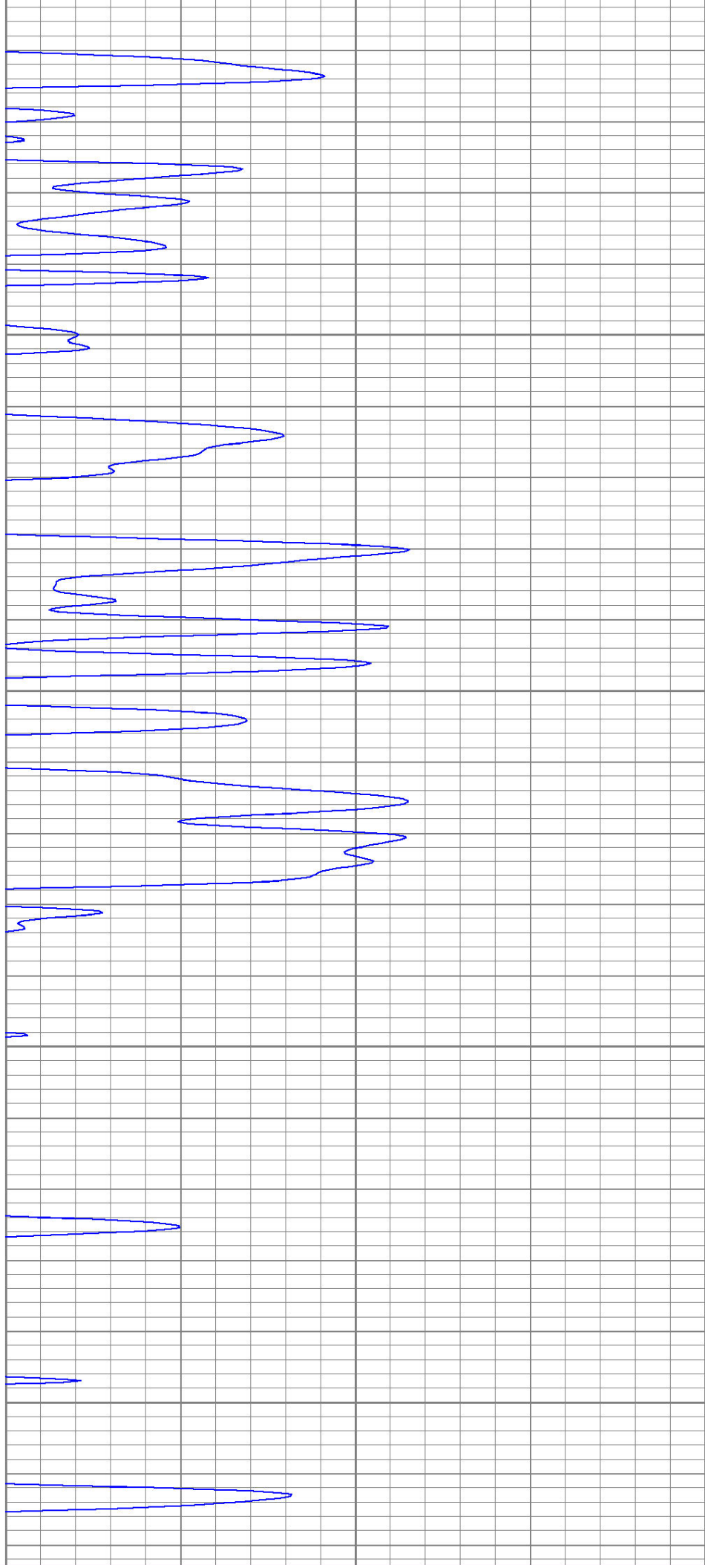


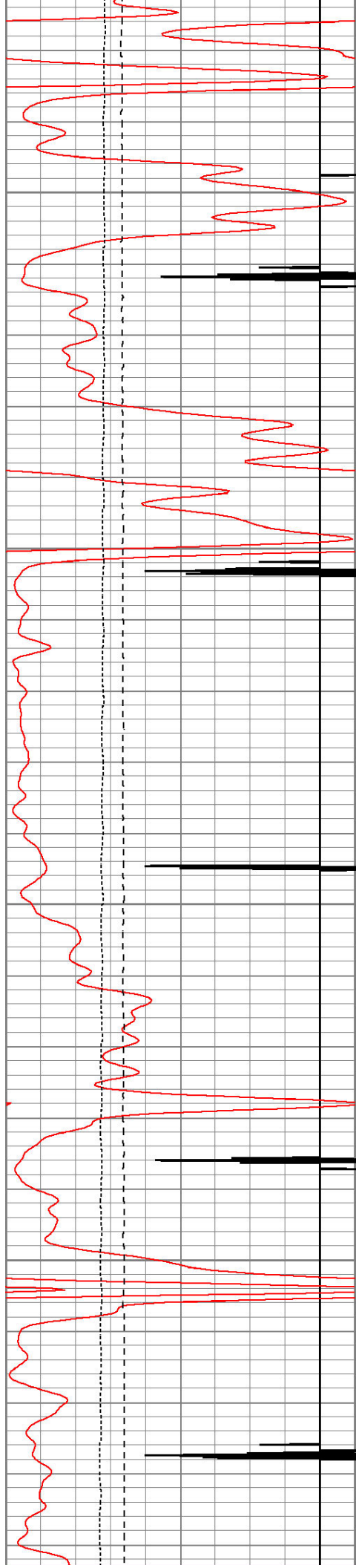
9650

9700

9750

9800



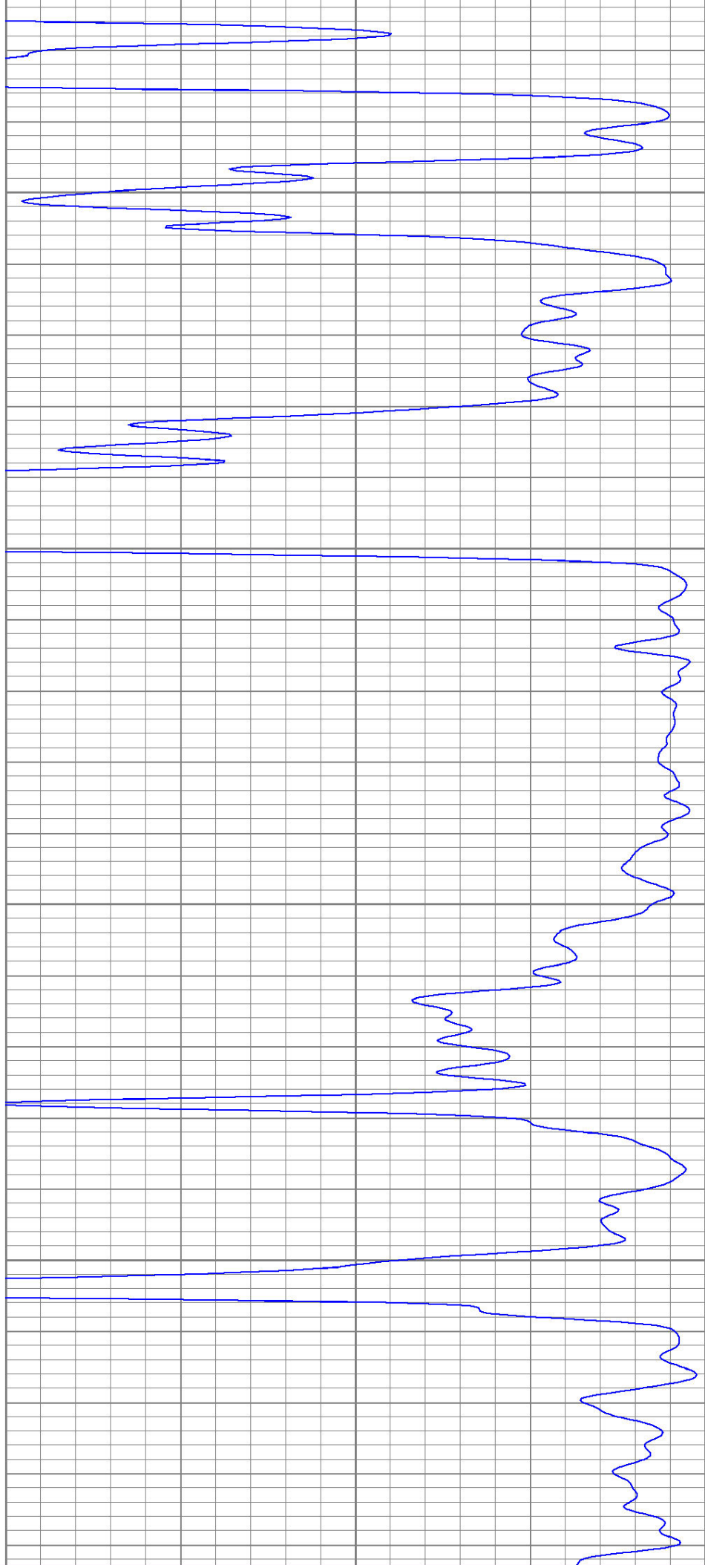


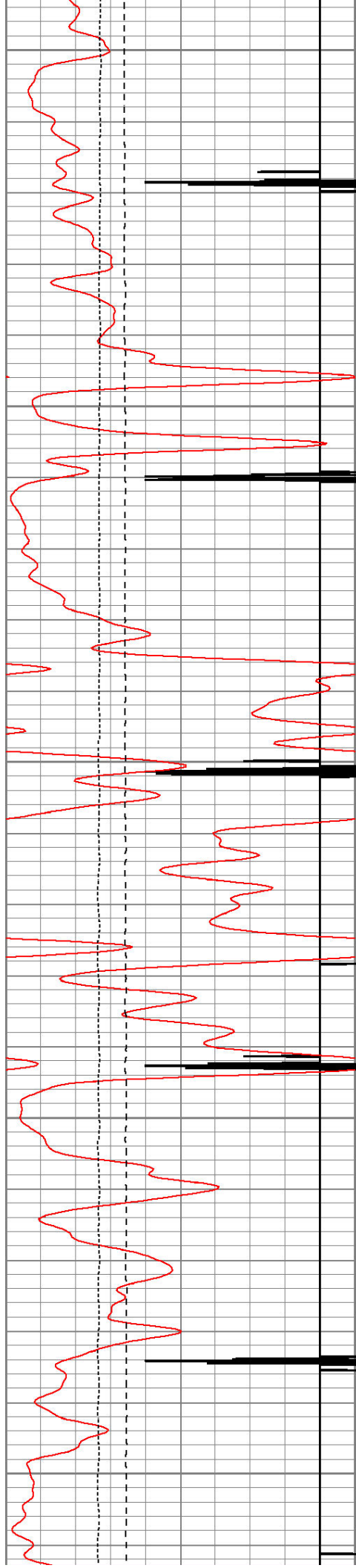
9850

9900

9950

10000





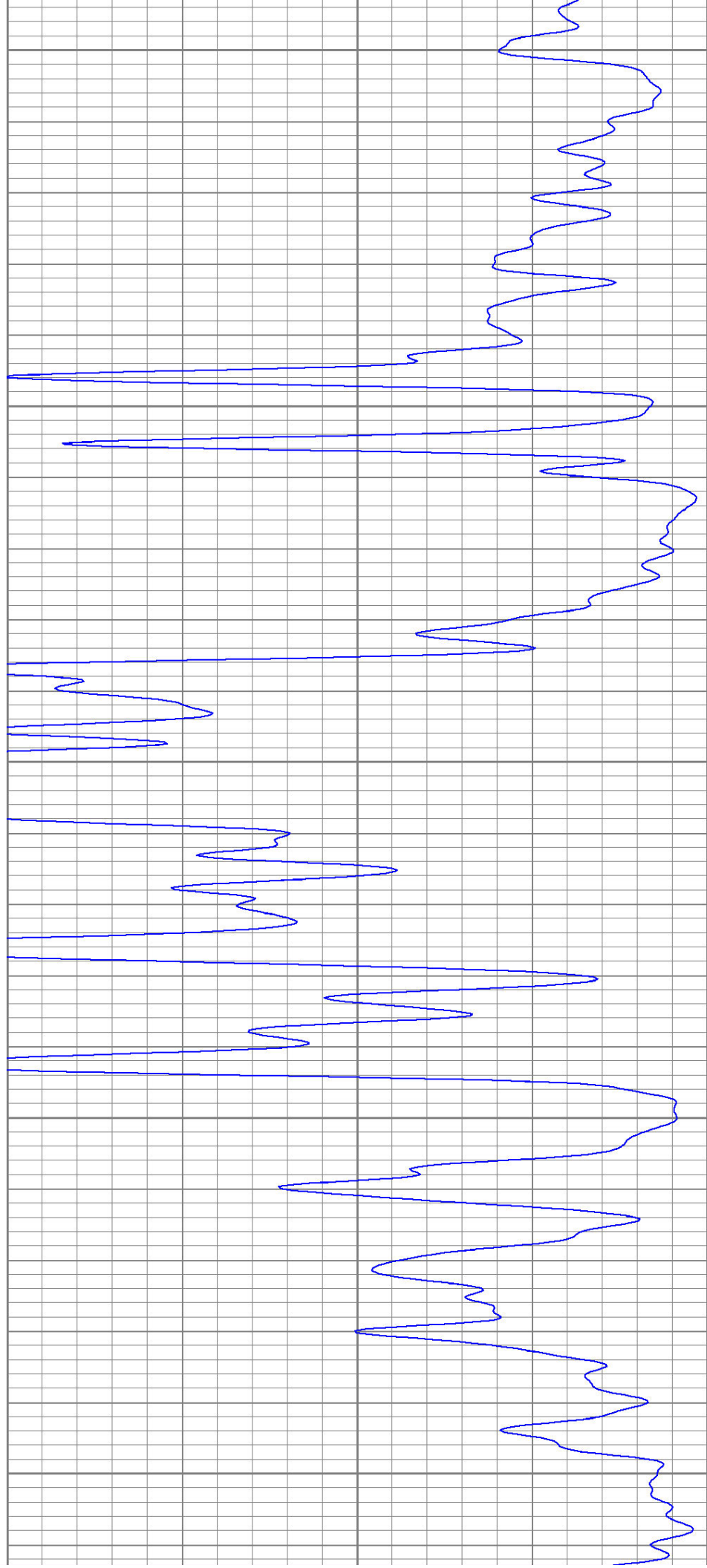
10050

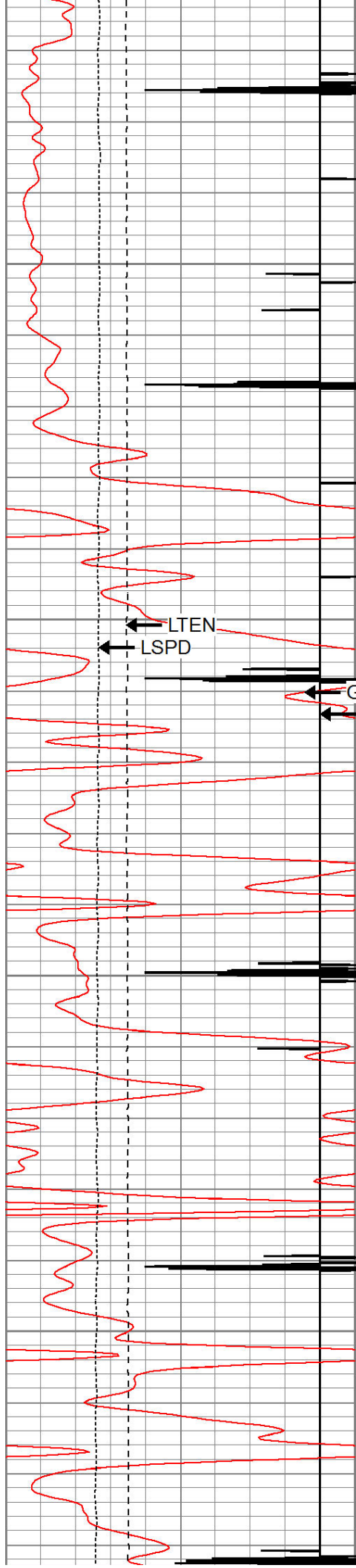
10100

10150

10200

10250





10300

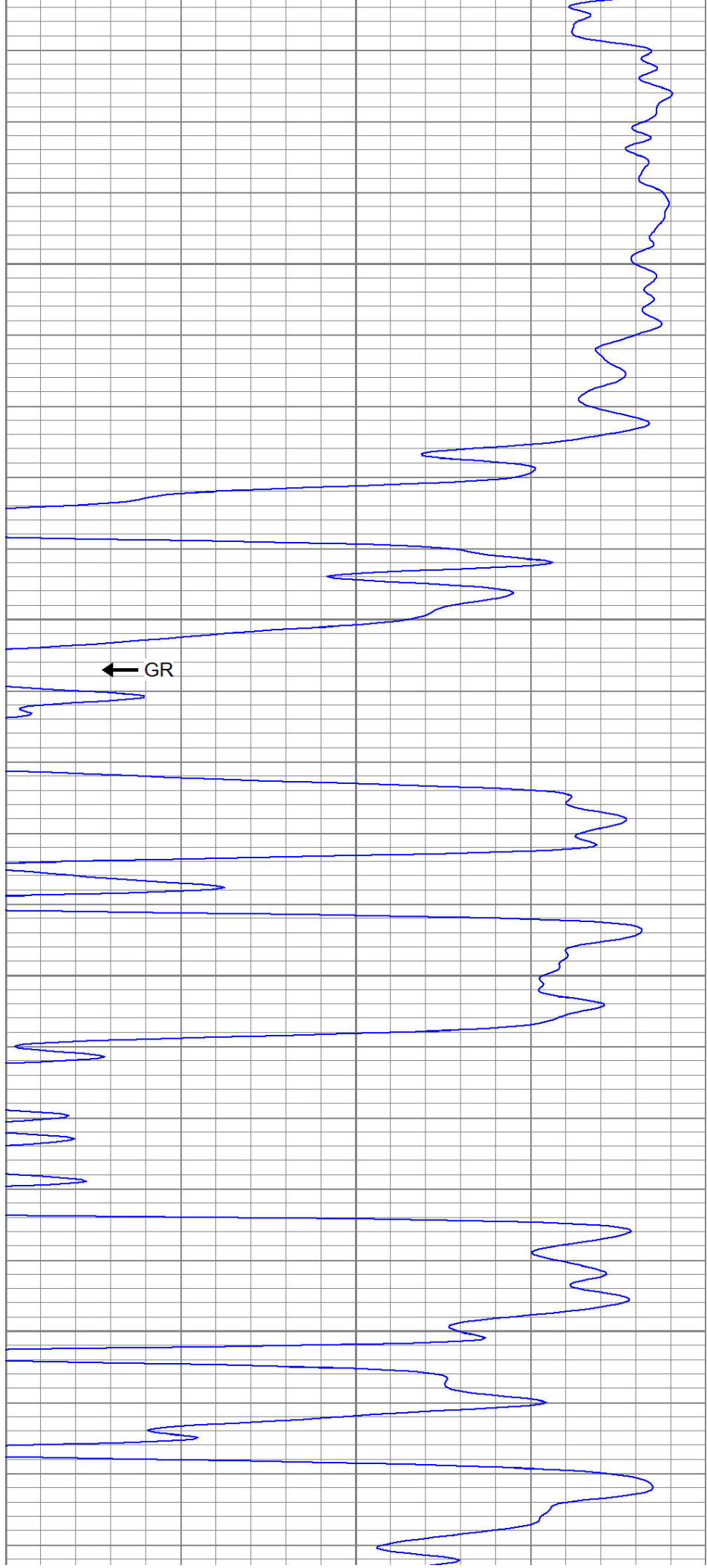
10350

10400

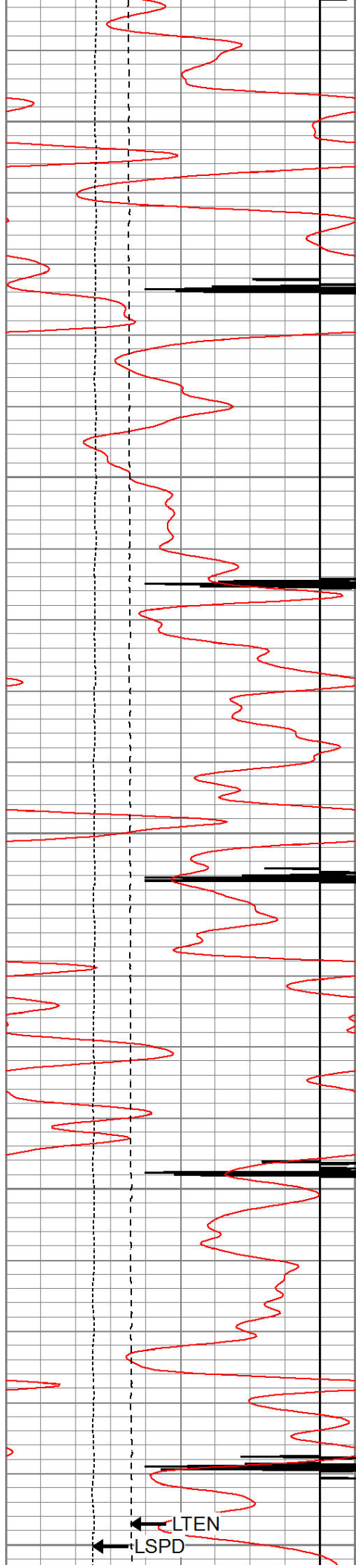
10450

← LTEN
← LSPD

← GR
← CCL



← GR



10500

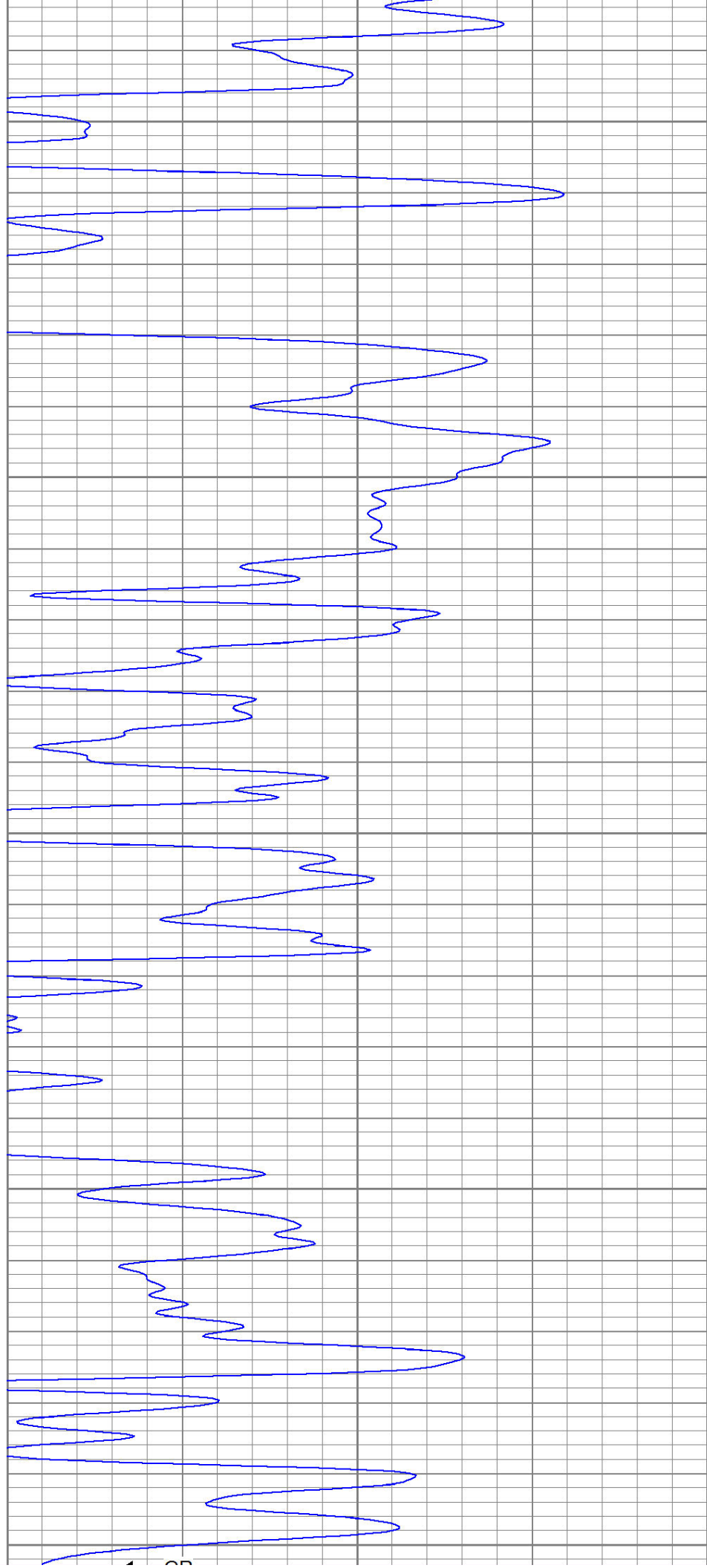
10550

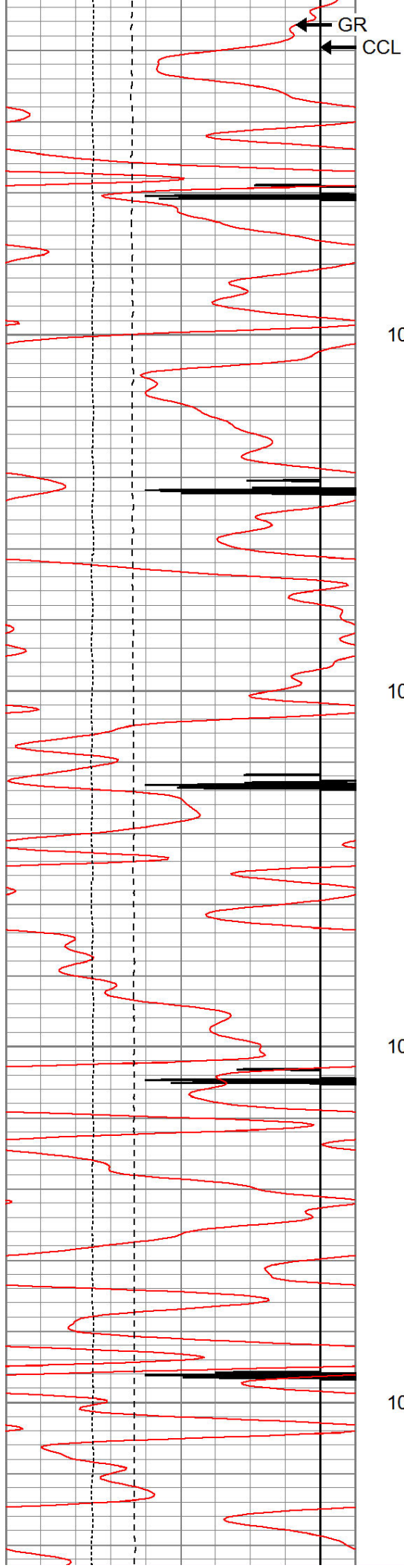
10600

10650

10700

←LTEN
←LSPD



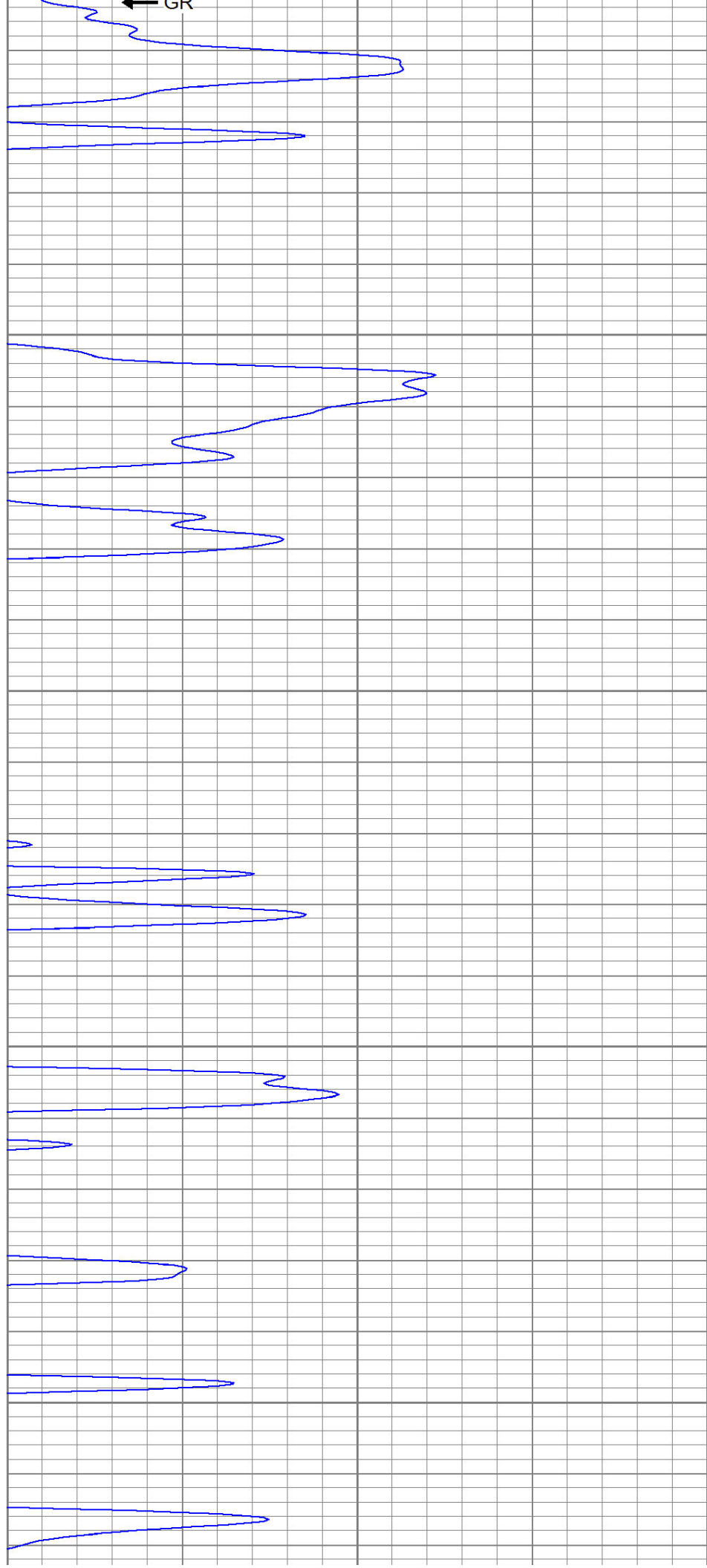


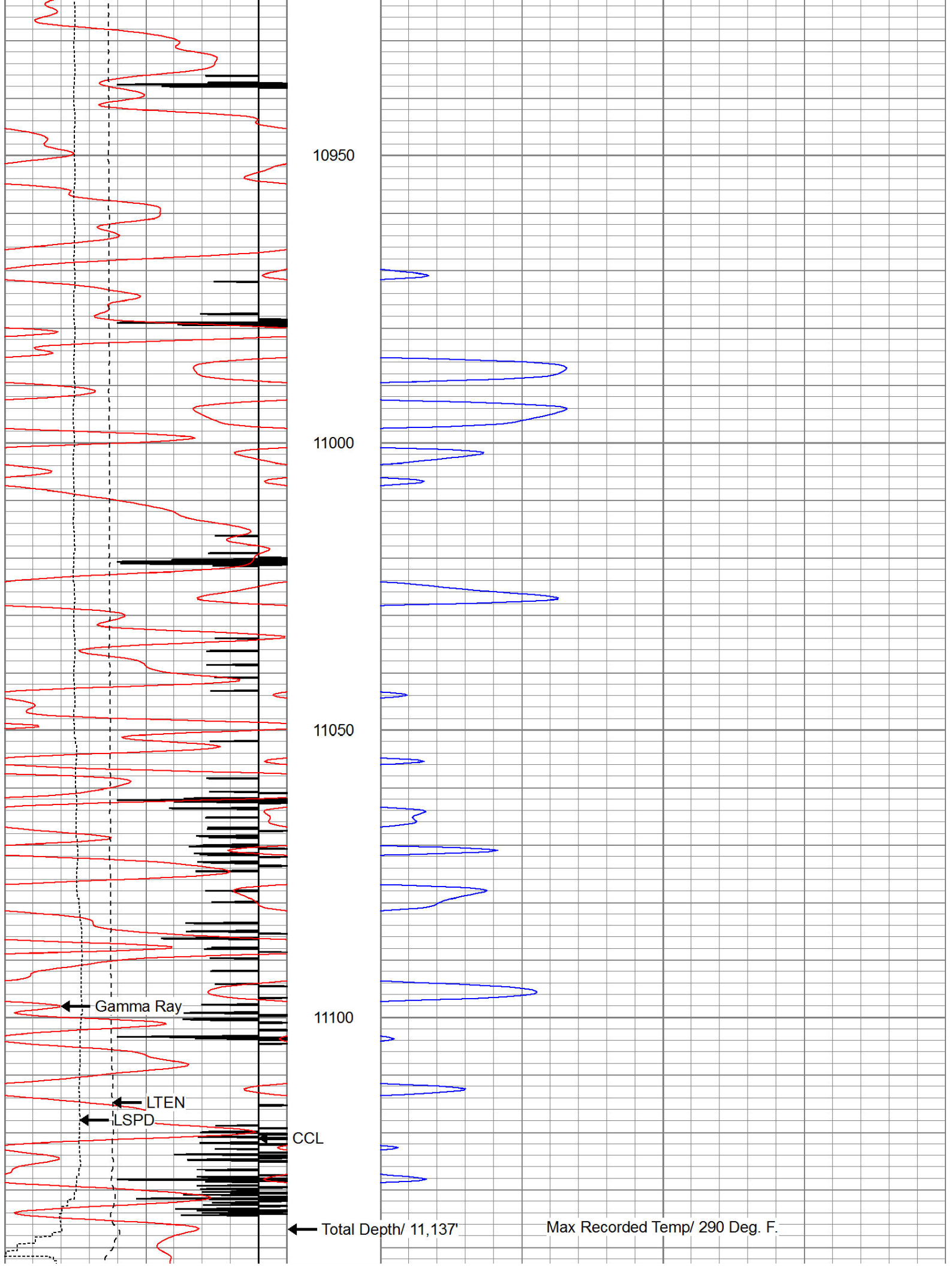
10750

10800

10850

10900







GR (cps)

0

GR (cps)

LTEN (lb)

LSPD (ft/min)



Well	NGL C5A
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Field Wattenberg

County Weld

State Colorado