











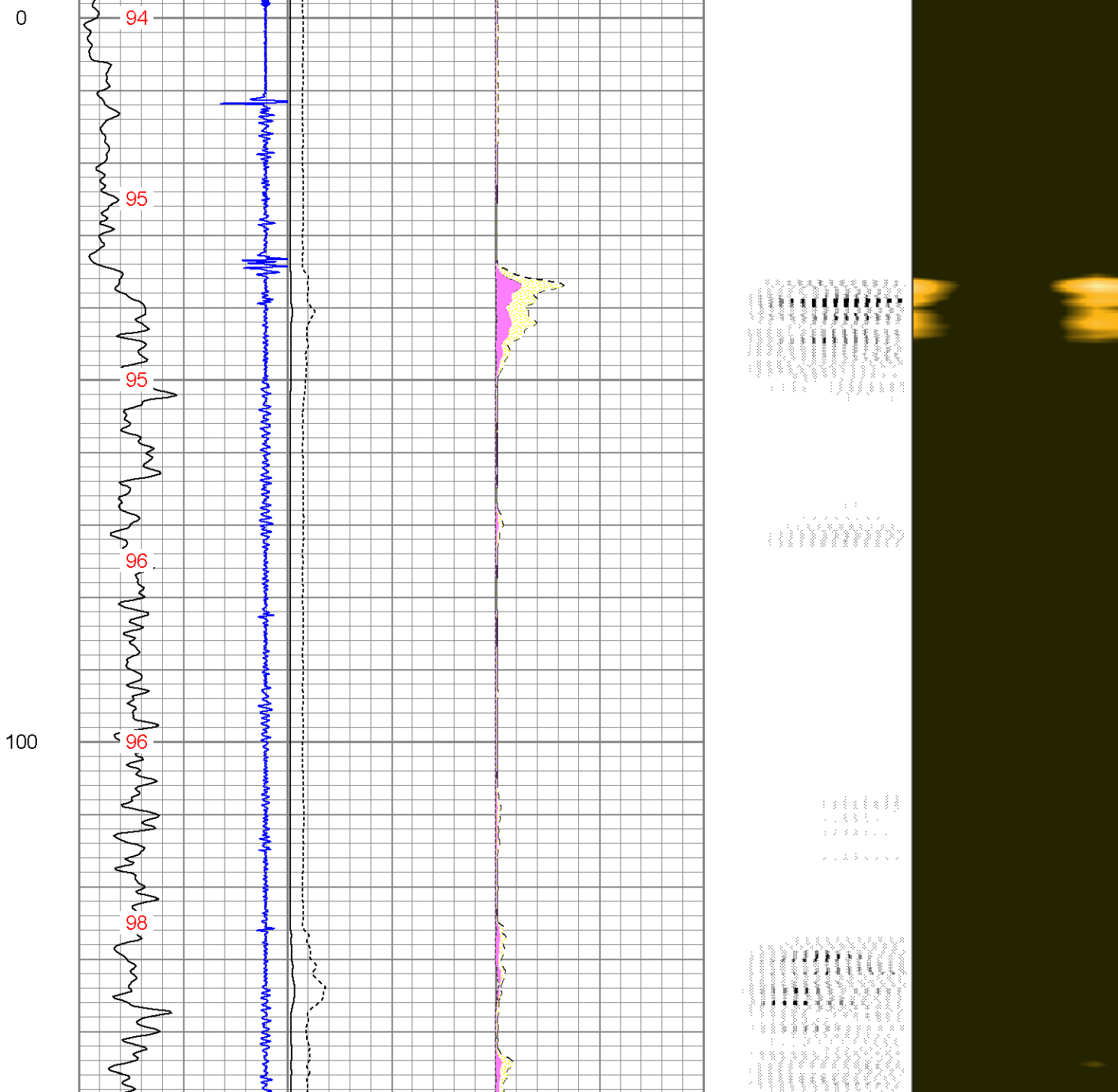
Pioneer Energy Services

# Main Pass

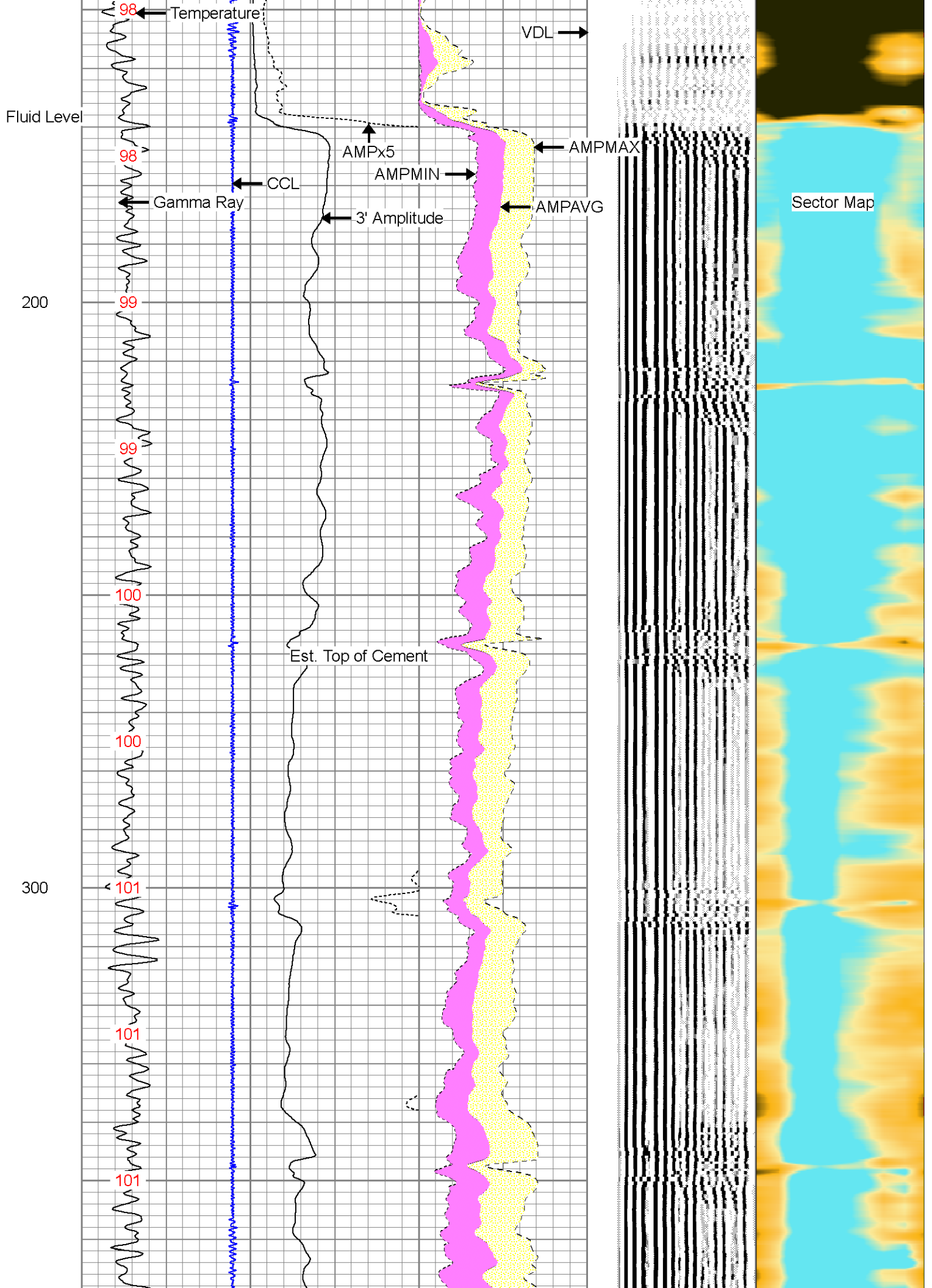
Logged with 0 PSI applied at surface

Database File: mumbystate4d-36h-p266\_rbl.db  
Dataset Pathname: pass5  
Presentation Format: scbl02  
Dataset Creation: Thu Jul 24 00:36:07 2014 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:240

-9	CCL	1	3' Amplitude	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
	Gamma Ray	0	(mV)	100	0	AMPMAX	150			10		60
0	(GAPI)	200	0	AMPx5 (mV)	20	0	AMPMIN	150				
Well Temp												
(degF)												









400

500

102

102

102

103

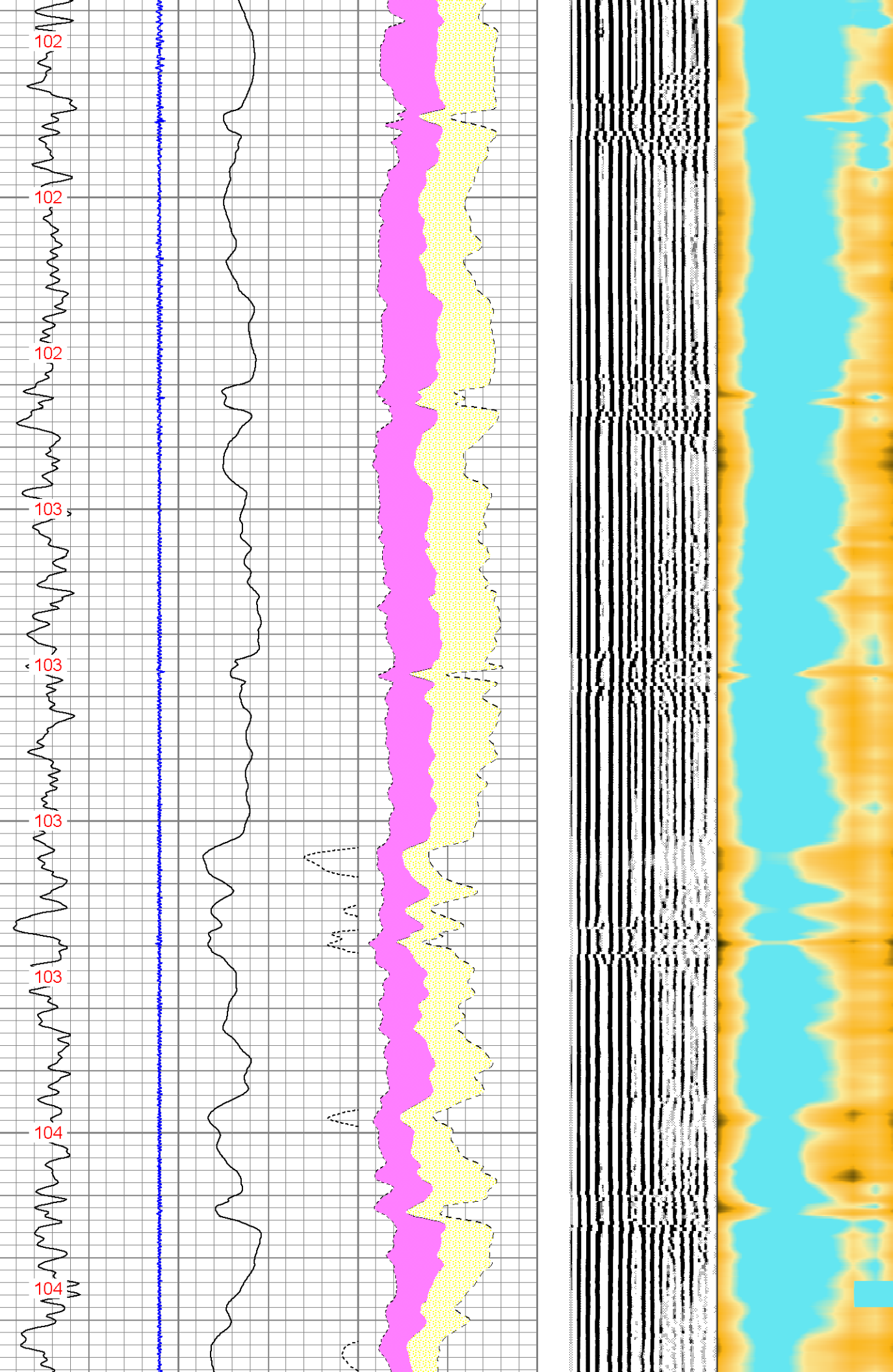
103

103

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104

104





600

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104

105

105

700

105

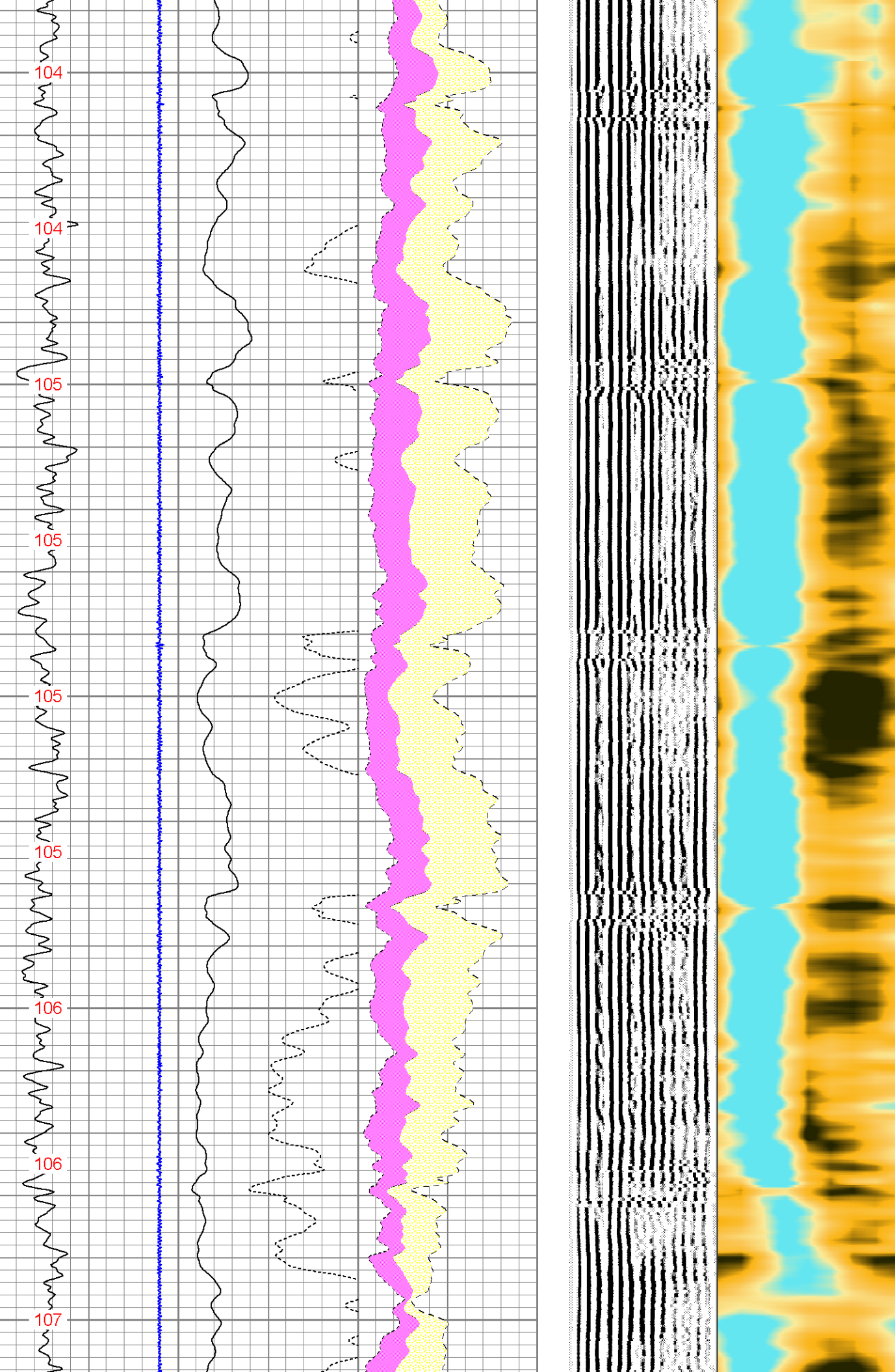
105

106

106

800

107





900

1000

107

107

108

108

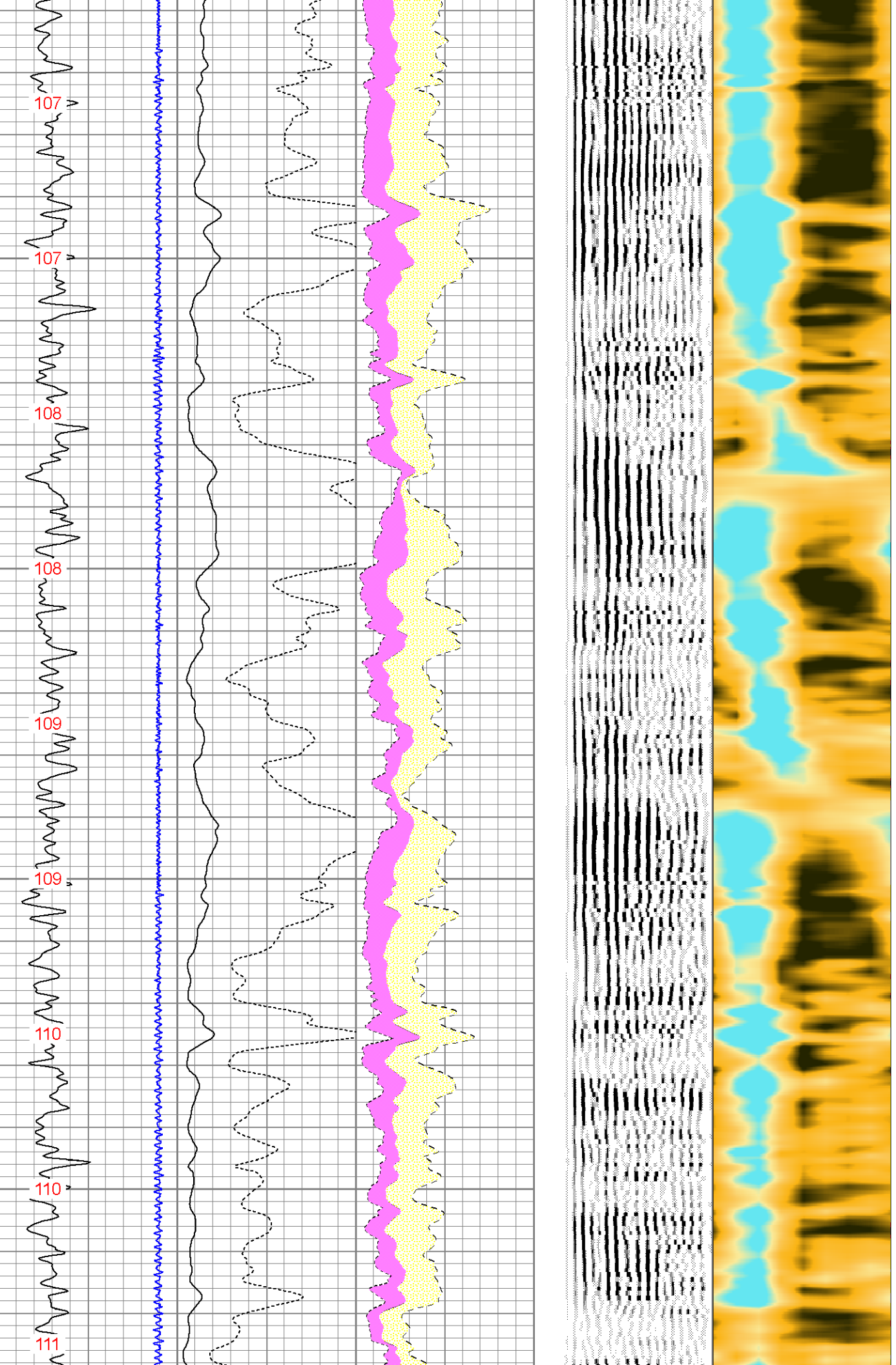
109

109

110

110

111





1100

1200

111

111

112

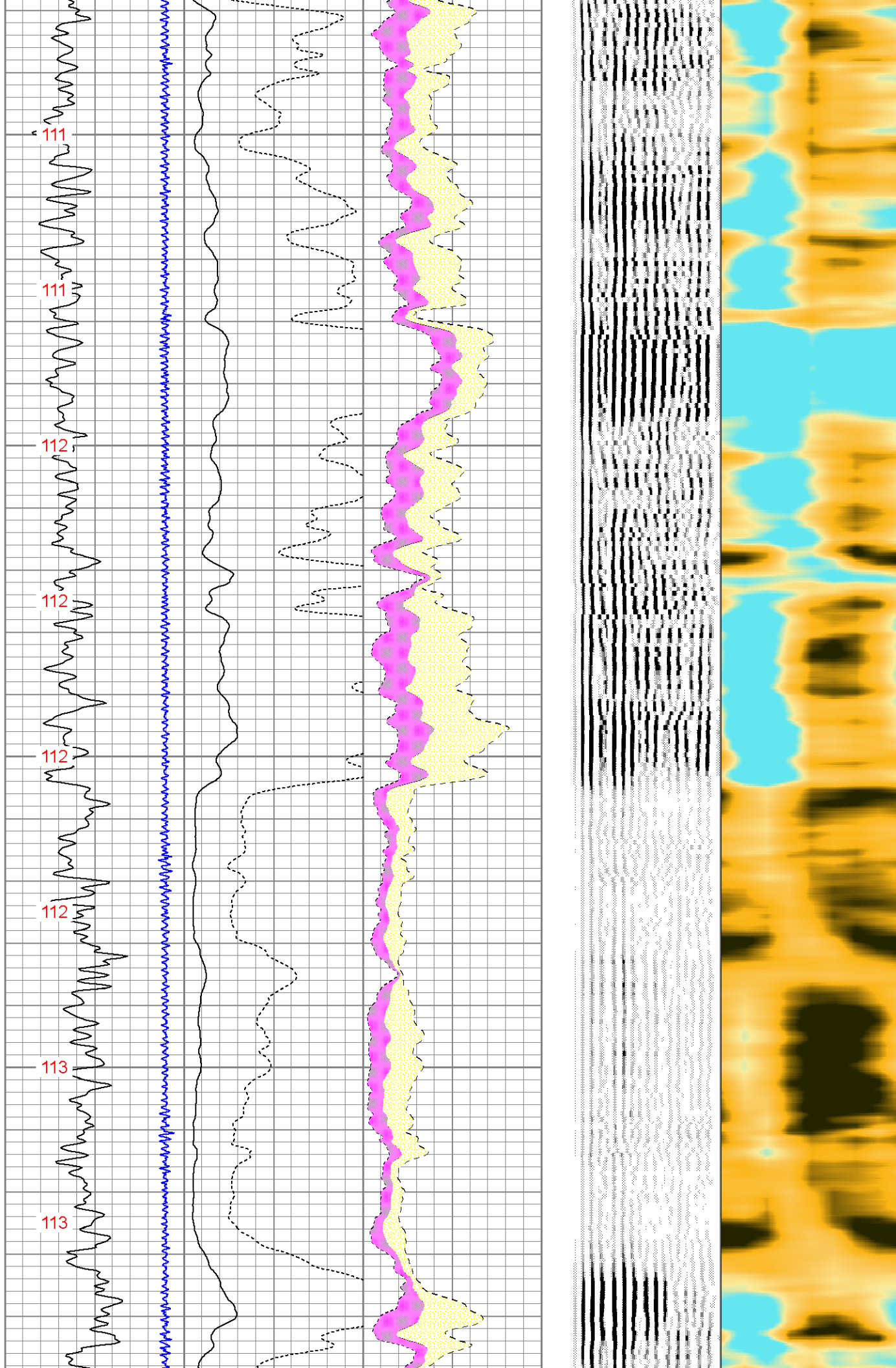
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112

113

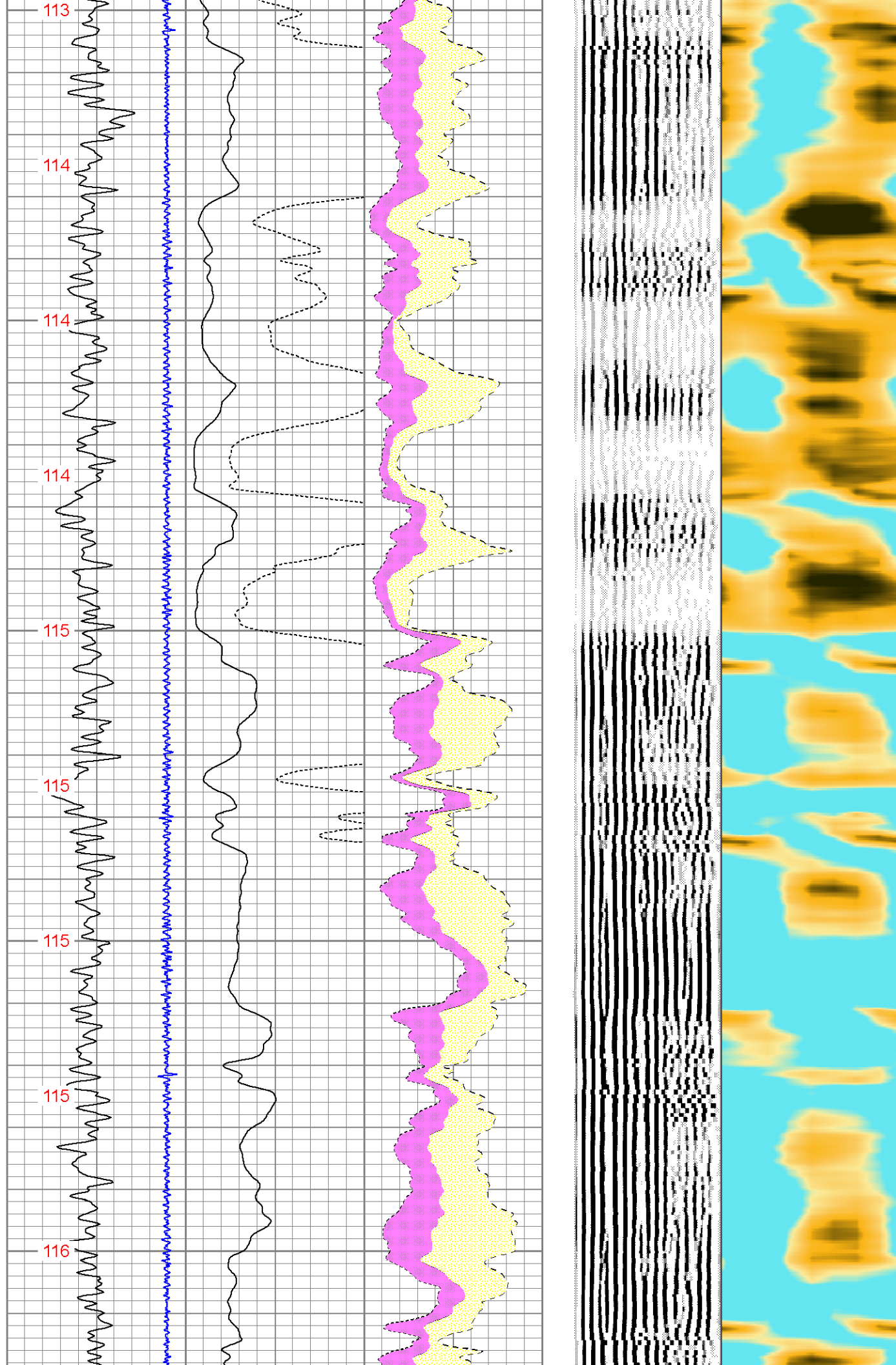
113





1300

1400





1500

1600

116

117

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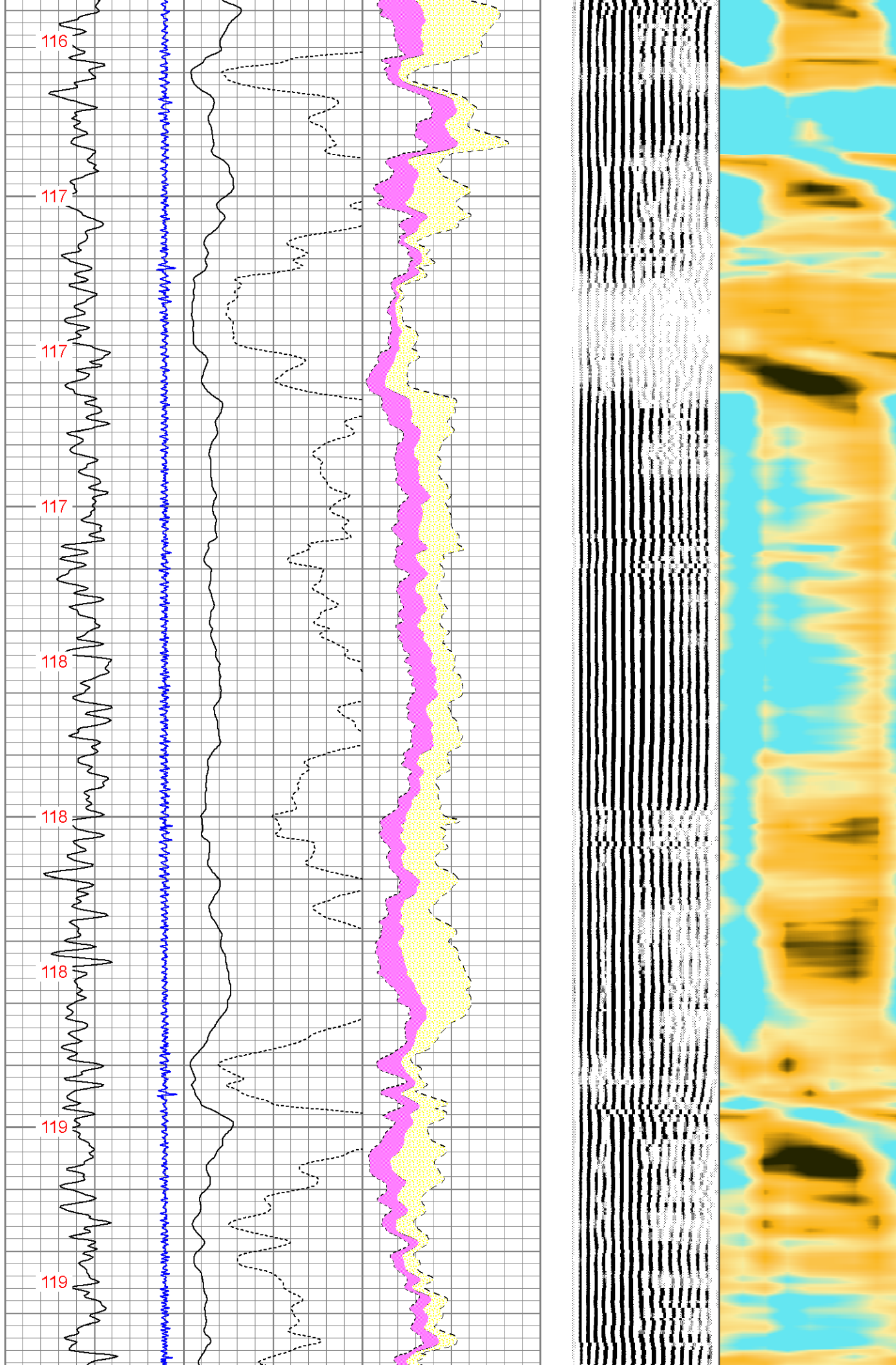
118

118

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119





1700

120

120

120

121

1800

121

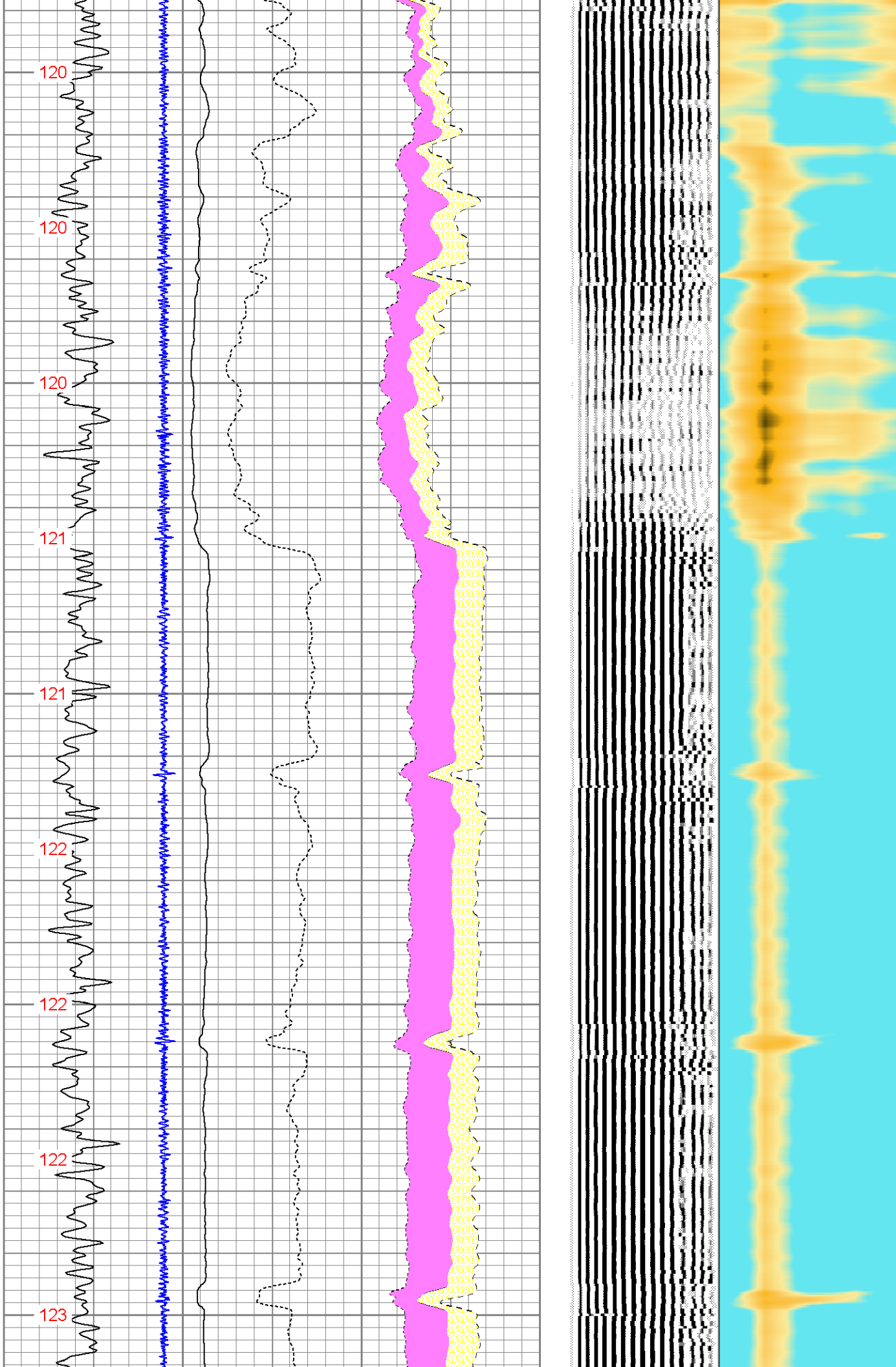
122

122

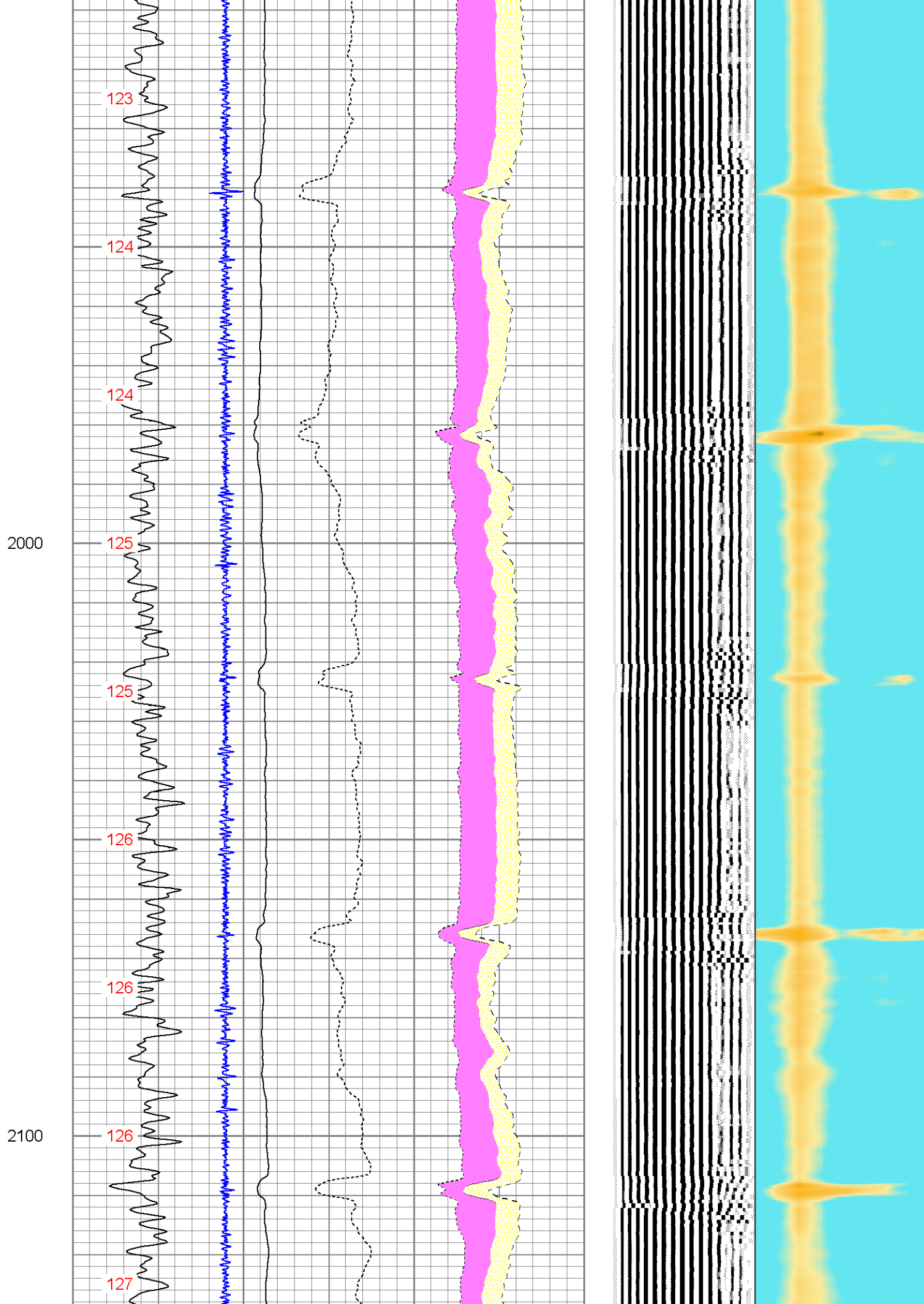
122

1900

123









2200

2300

127

128

128

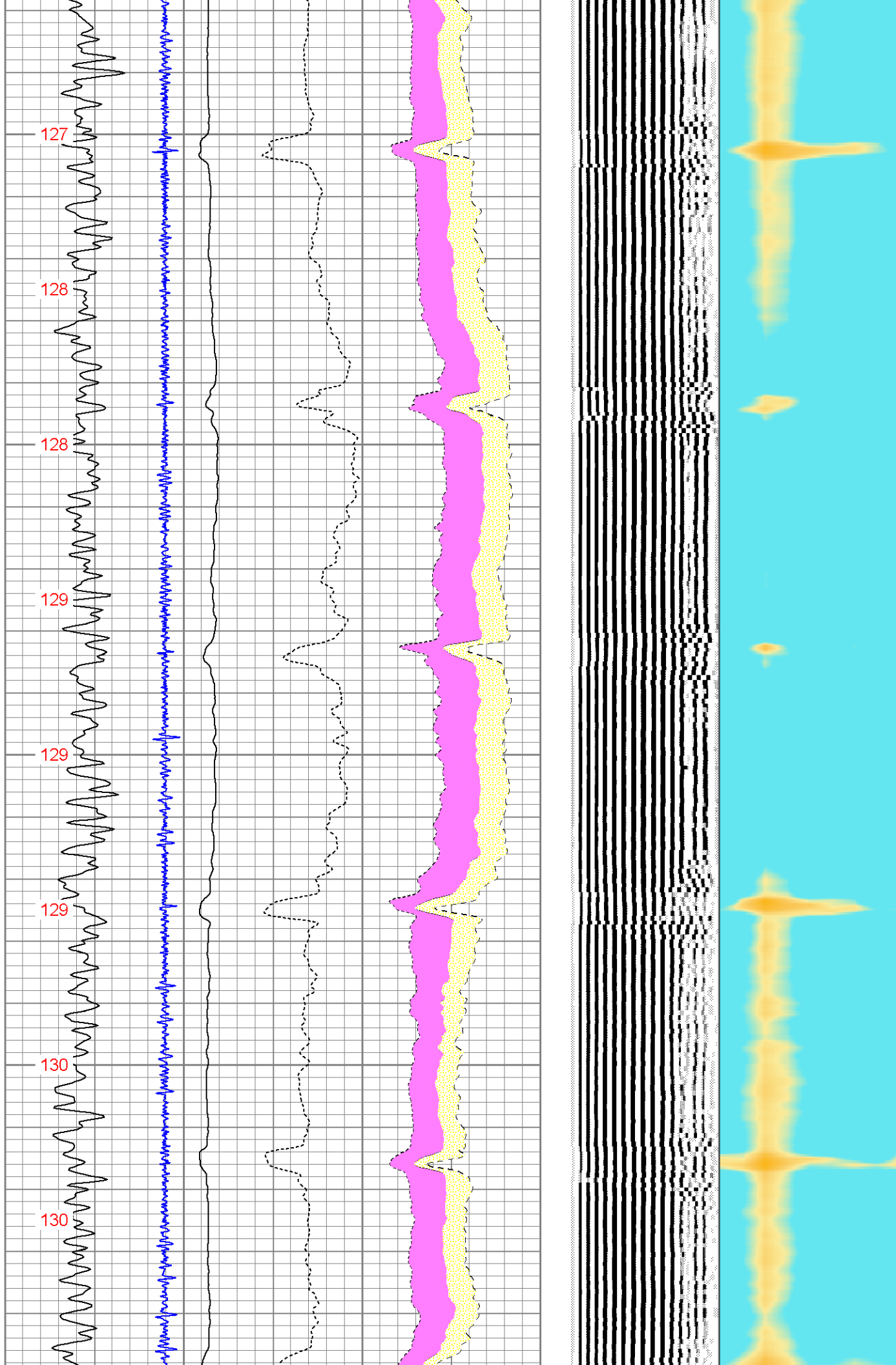
129

129

129

130

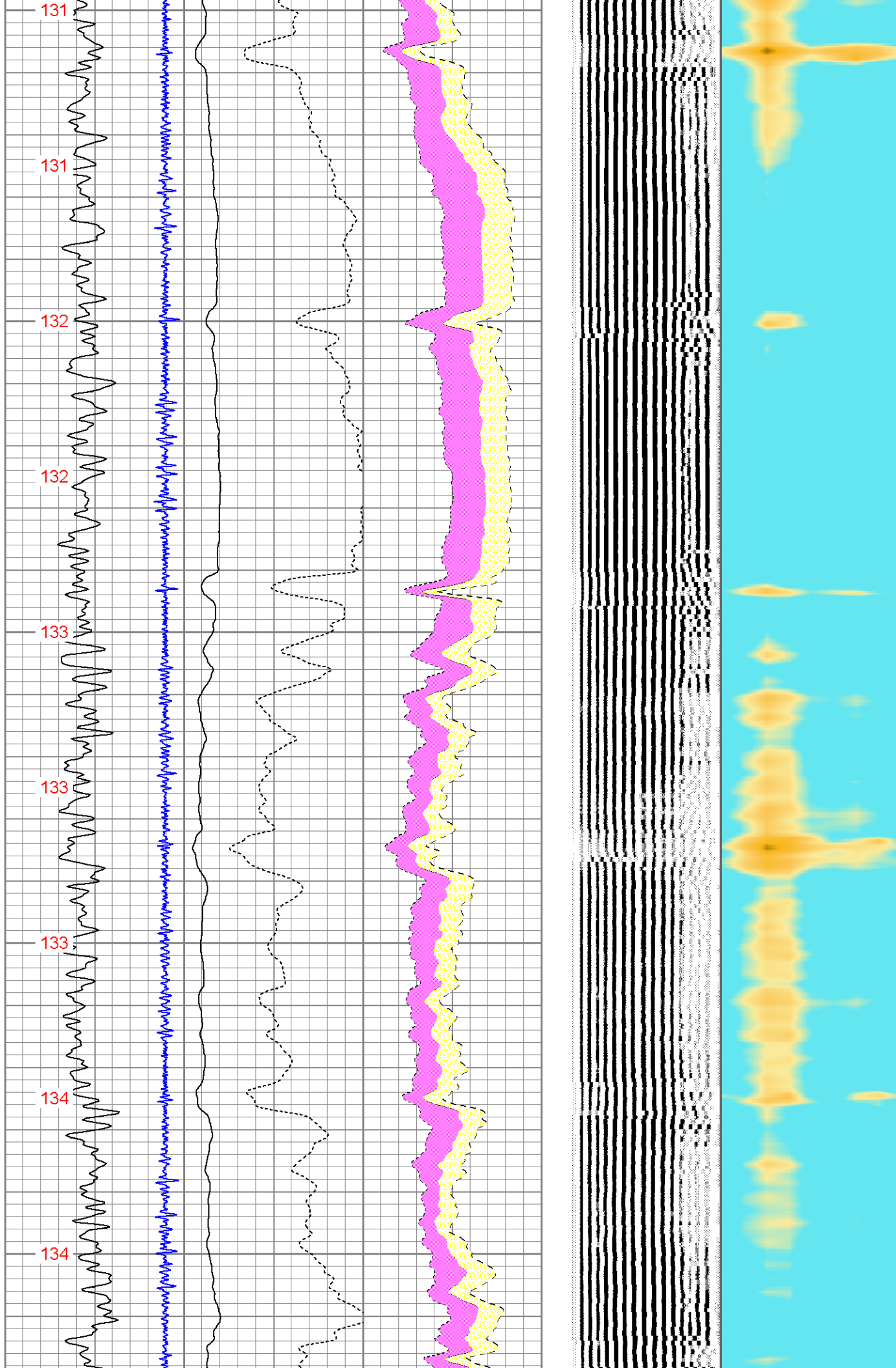
130





2400

2500





2600

2700

135

135

136

136

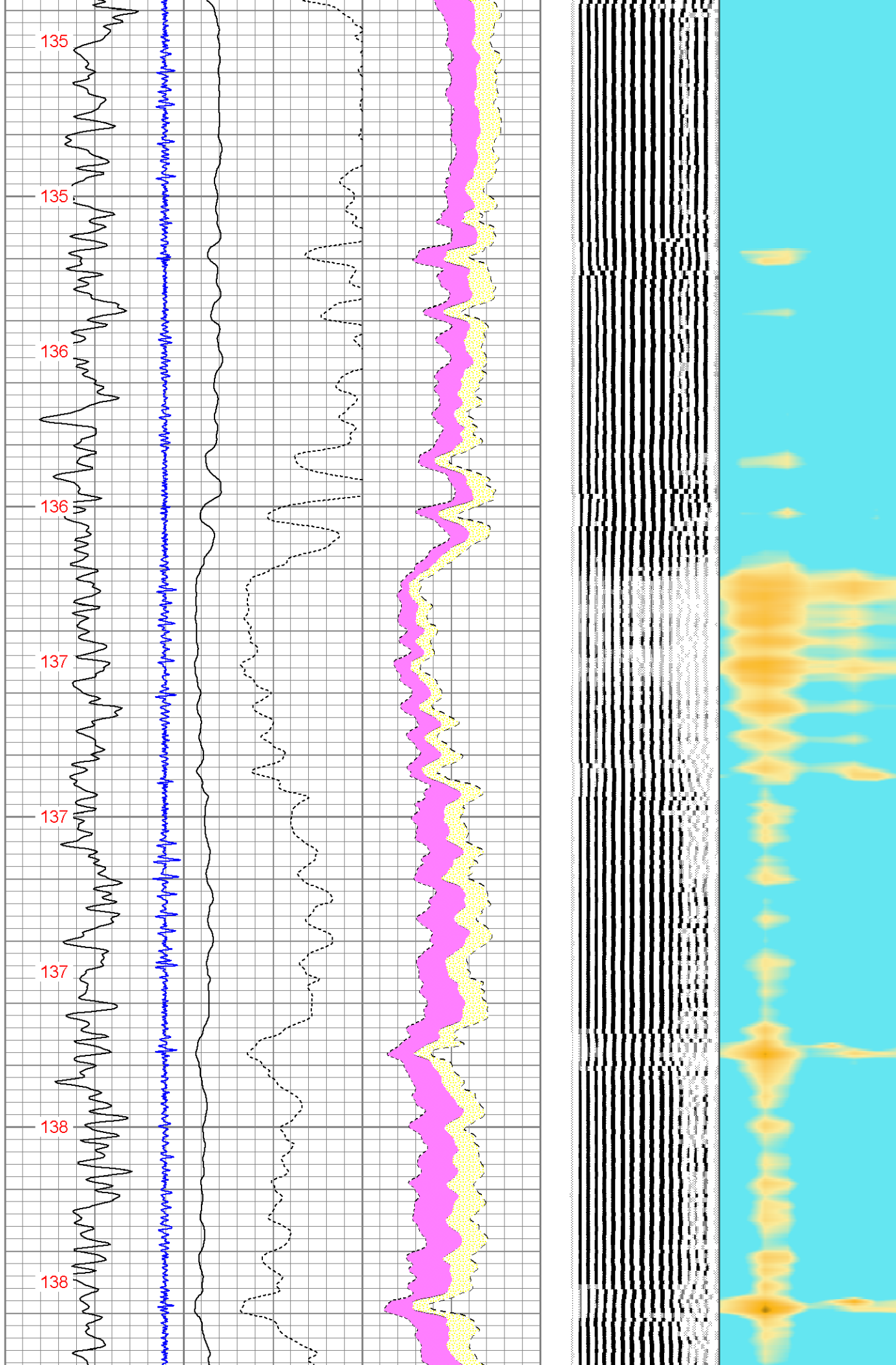
137

137

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2800

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140

2900

140

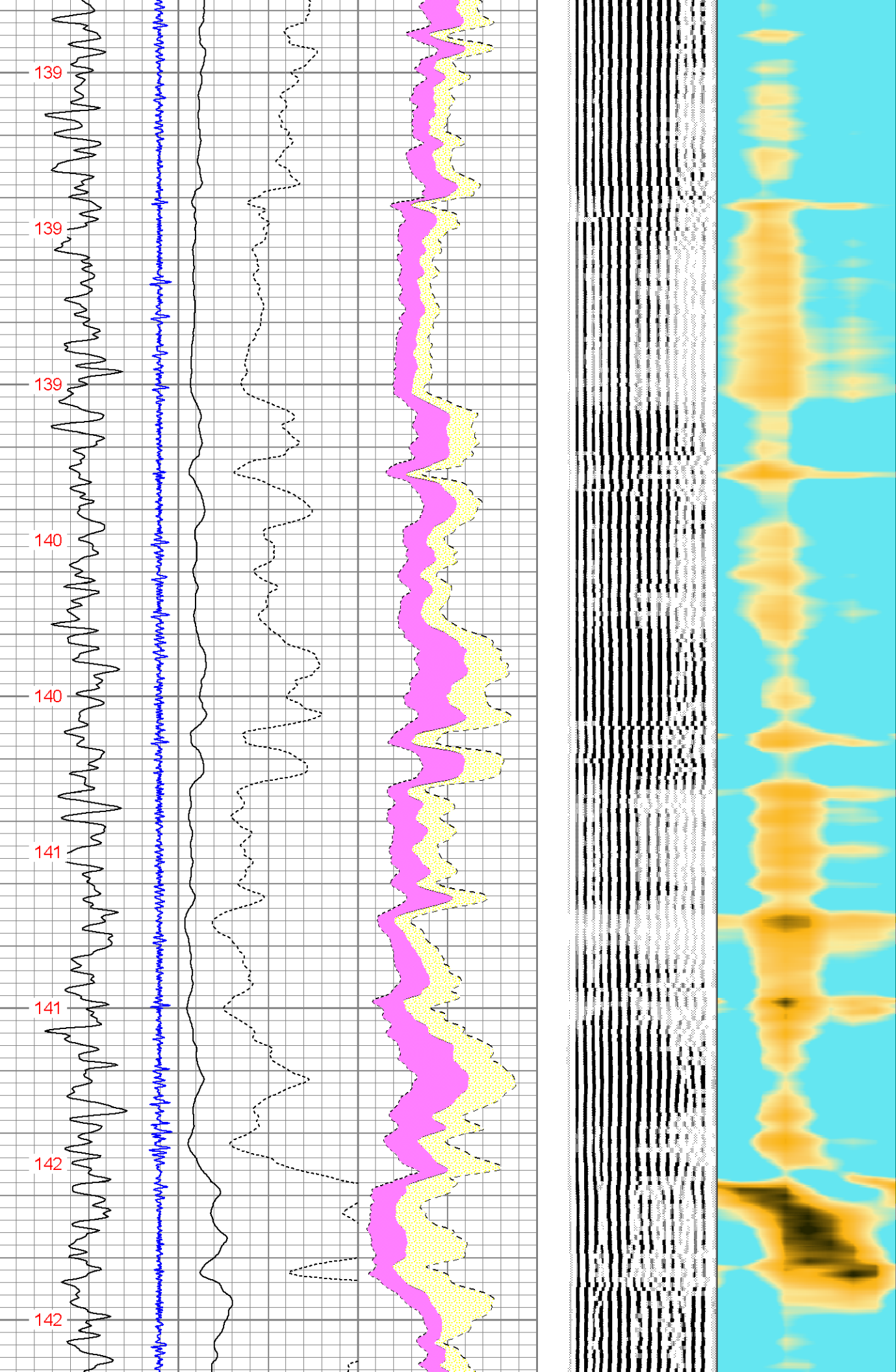
141

141

142

3000

142





3100

3200

143

143

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144

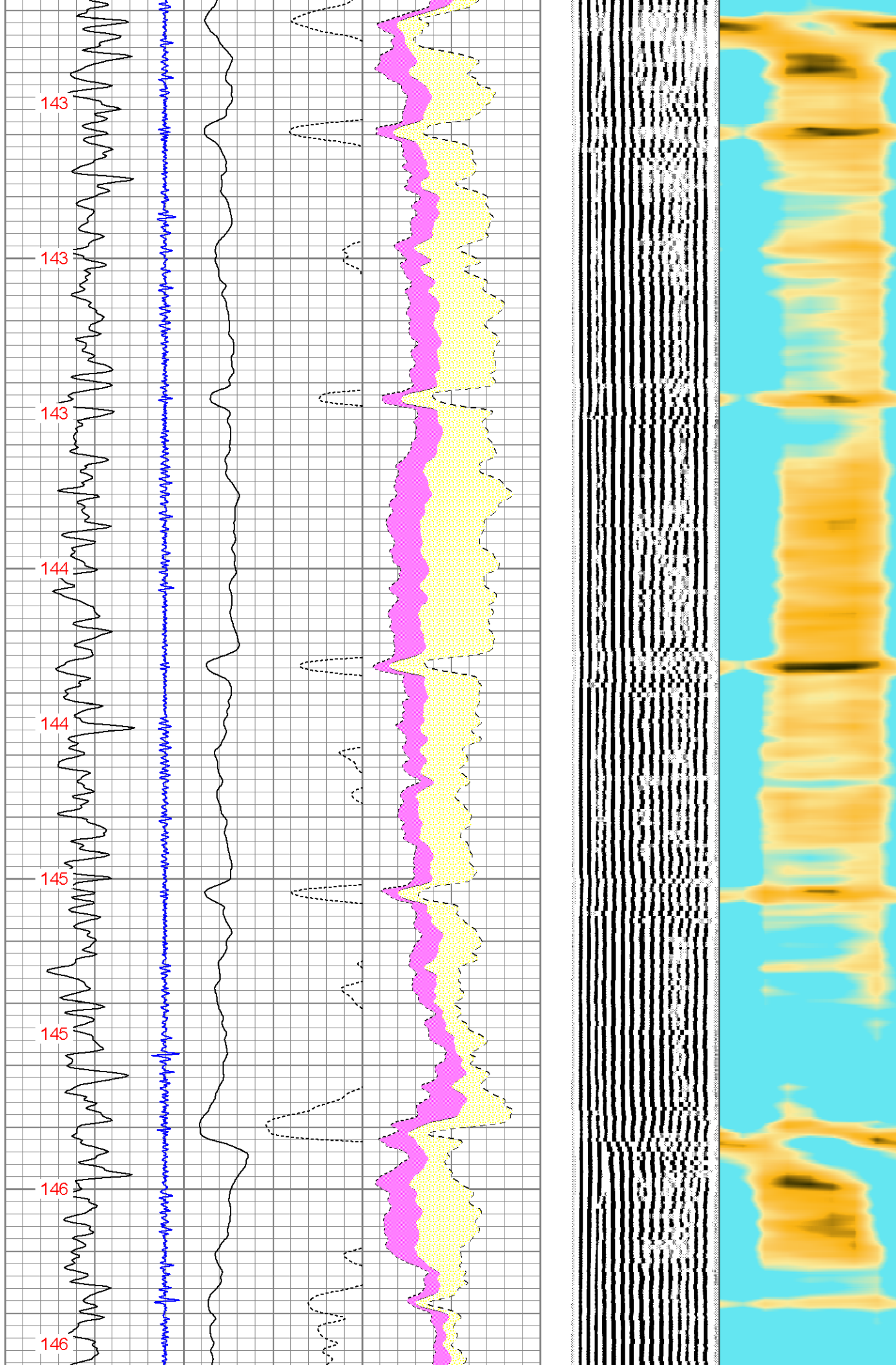
144

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146





3300

3400

146

147

147

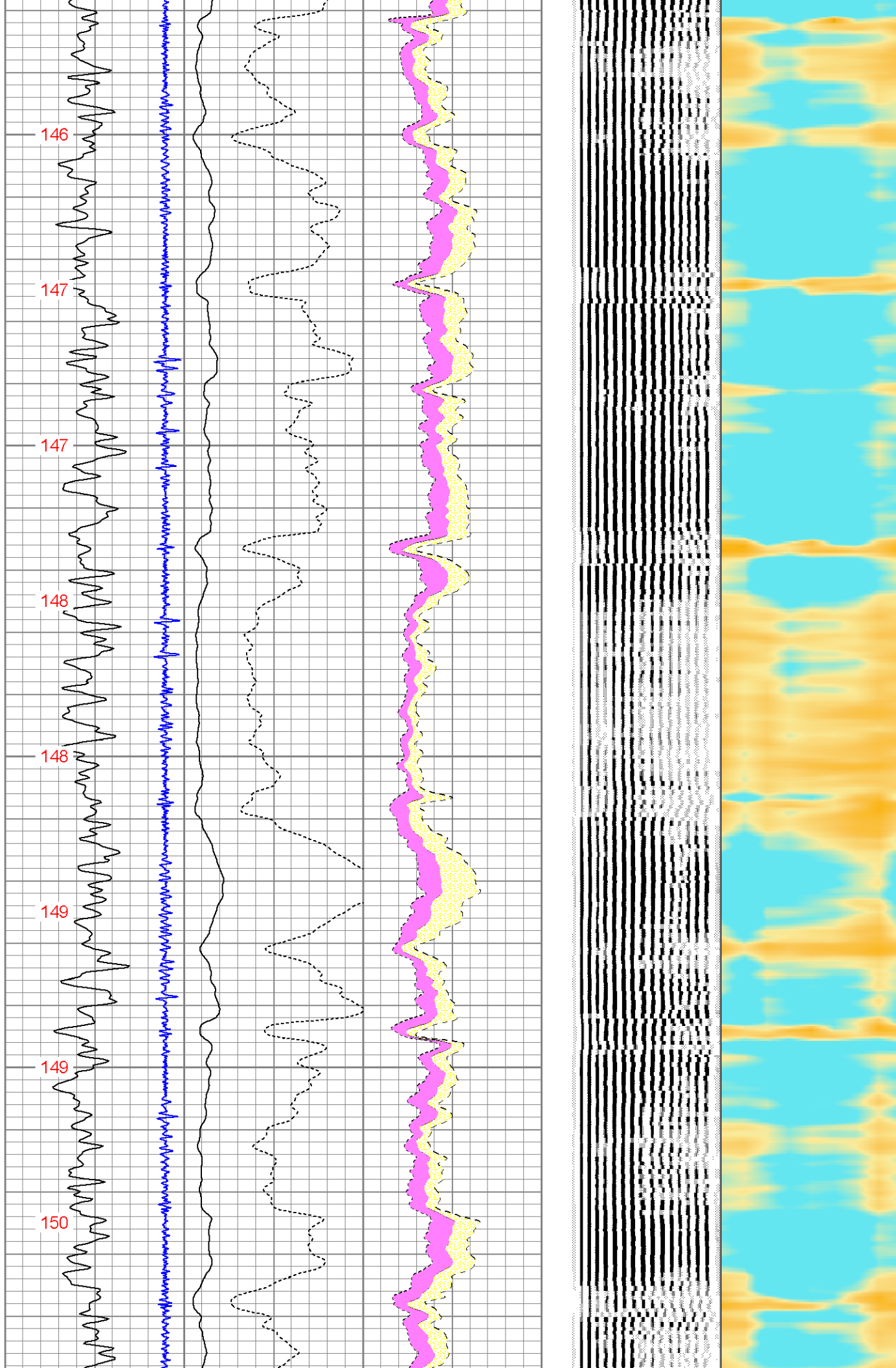
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148

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149

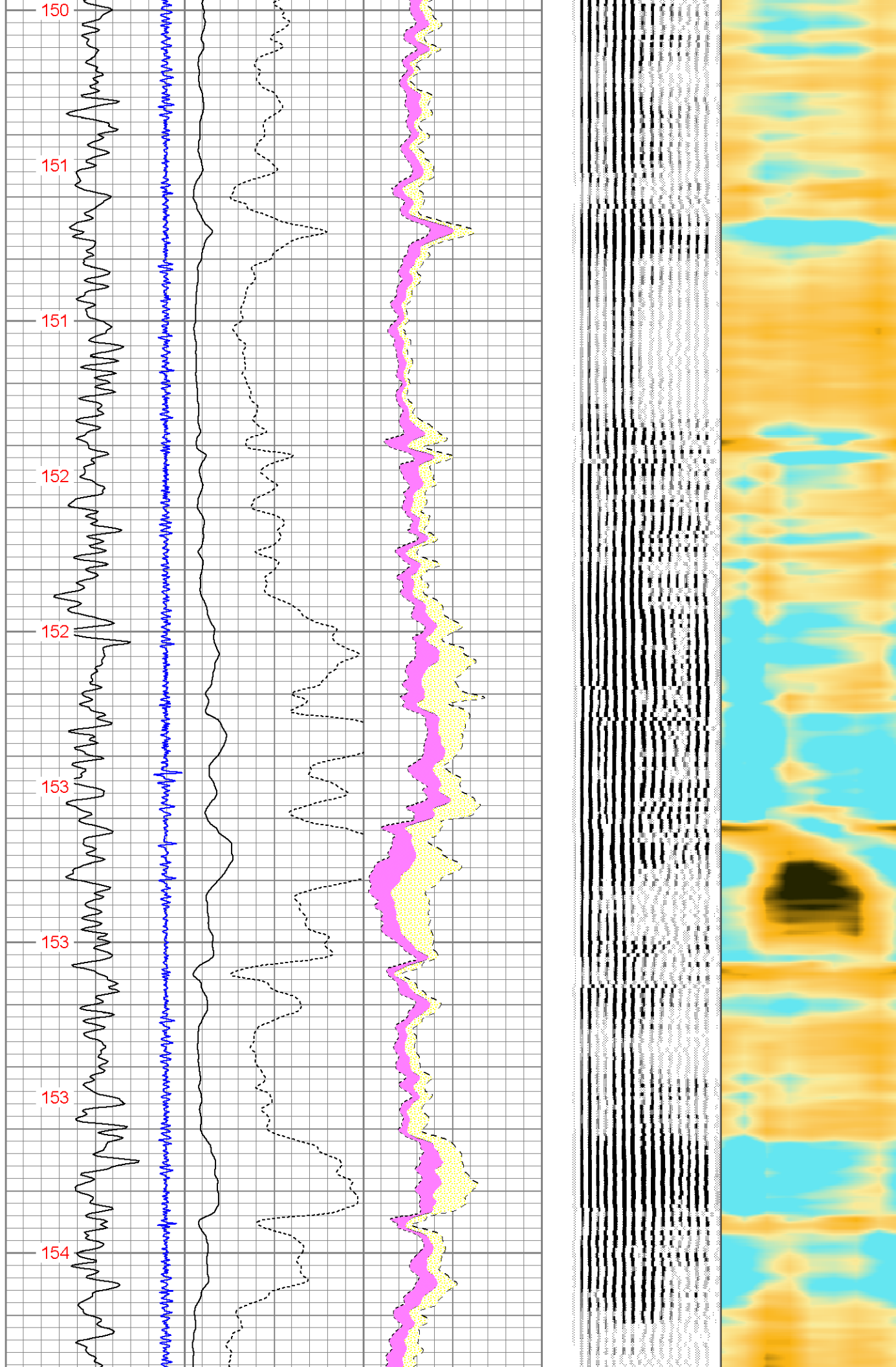
150





3500

3600





3700

3800

154

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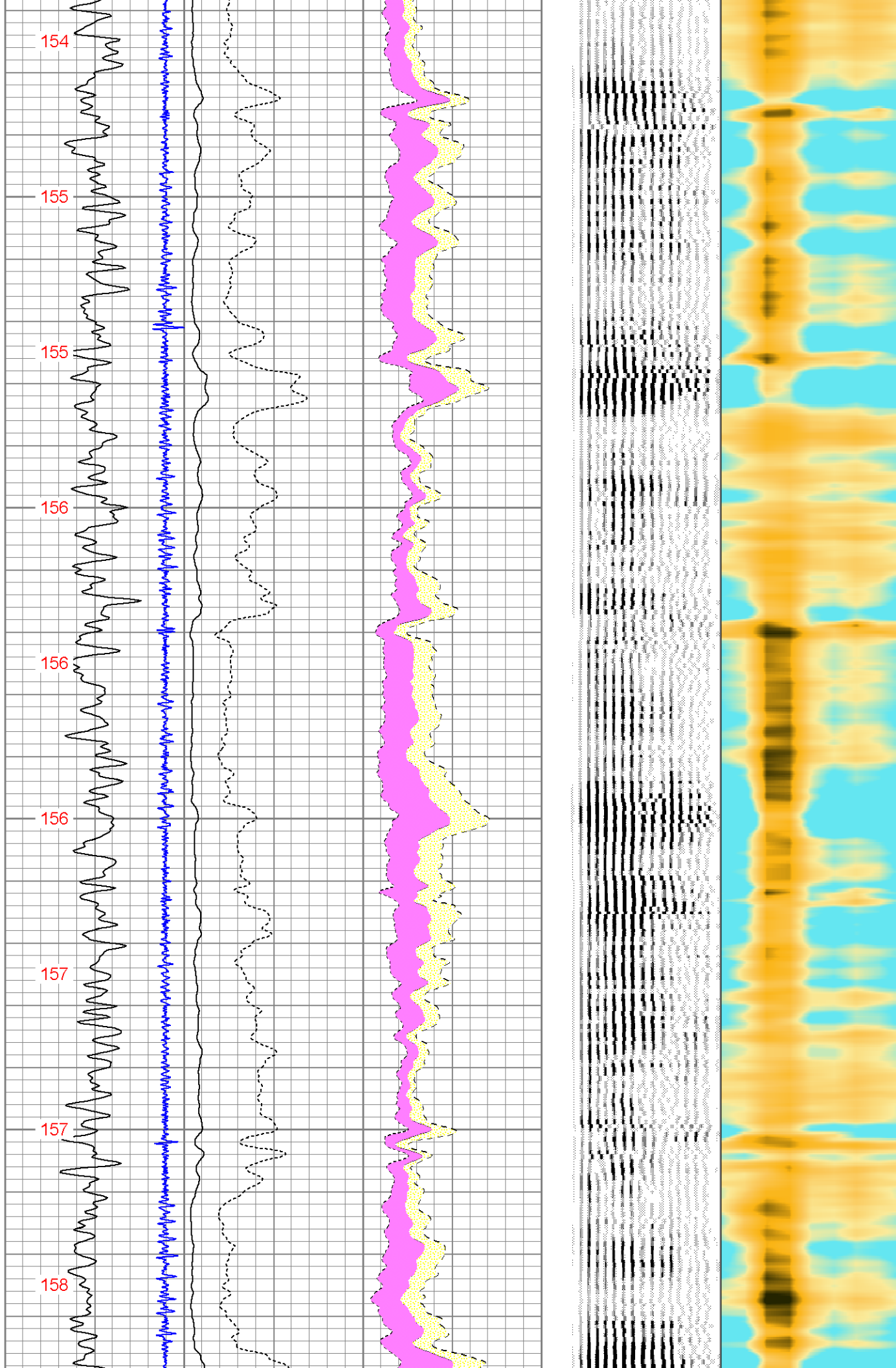
156

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158





3900

158

158

159

160

4000

160

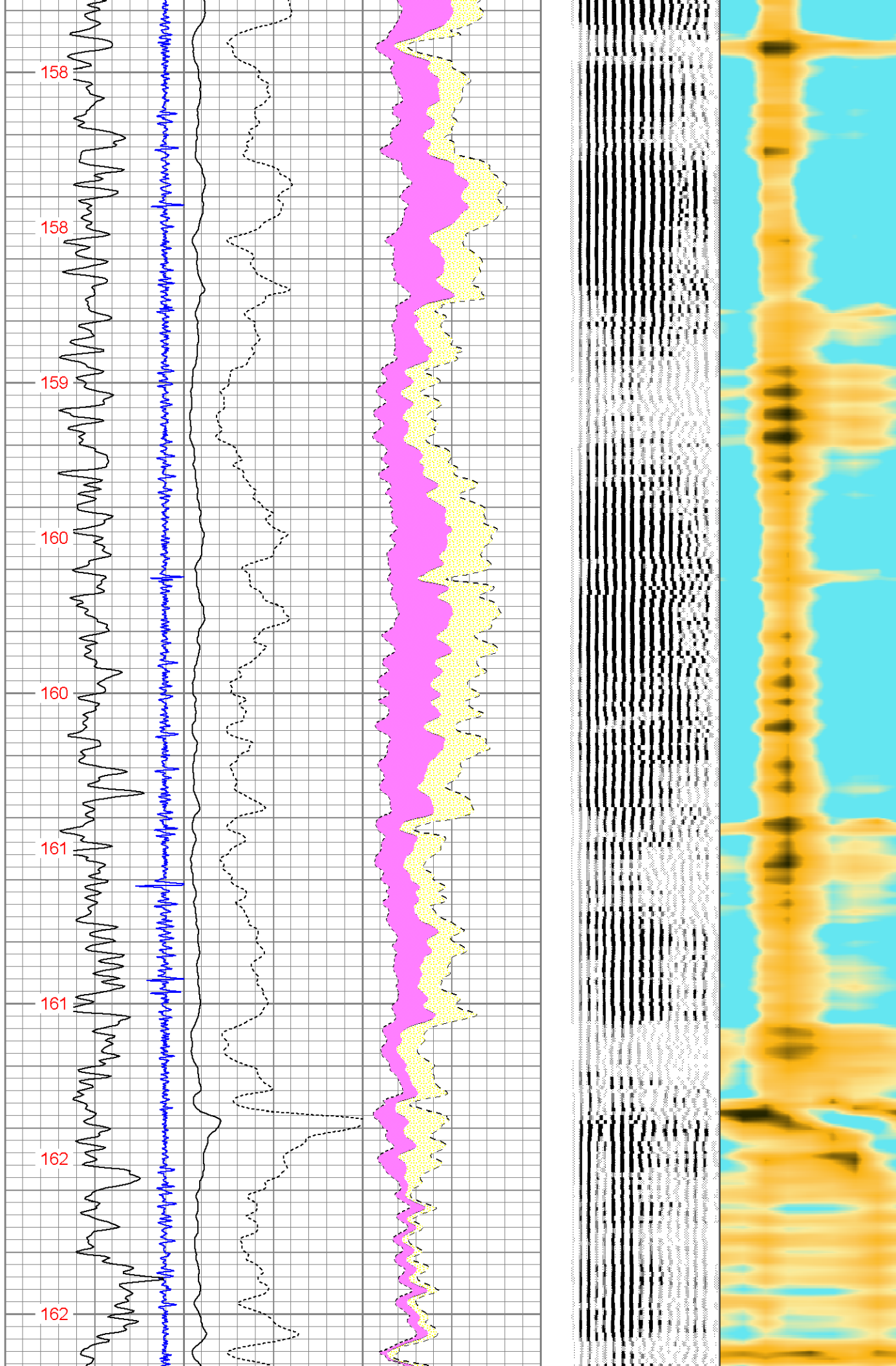
161

161

162

4100

162





4200

4300

163

163

163

164

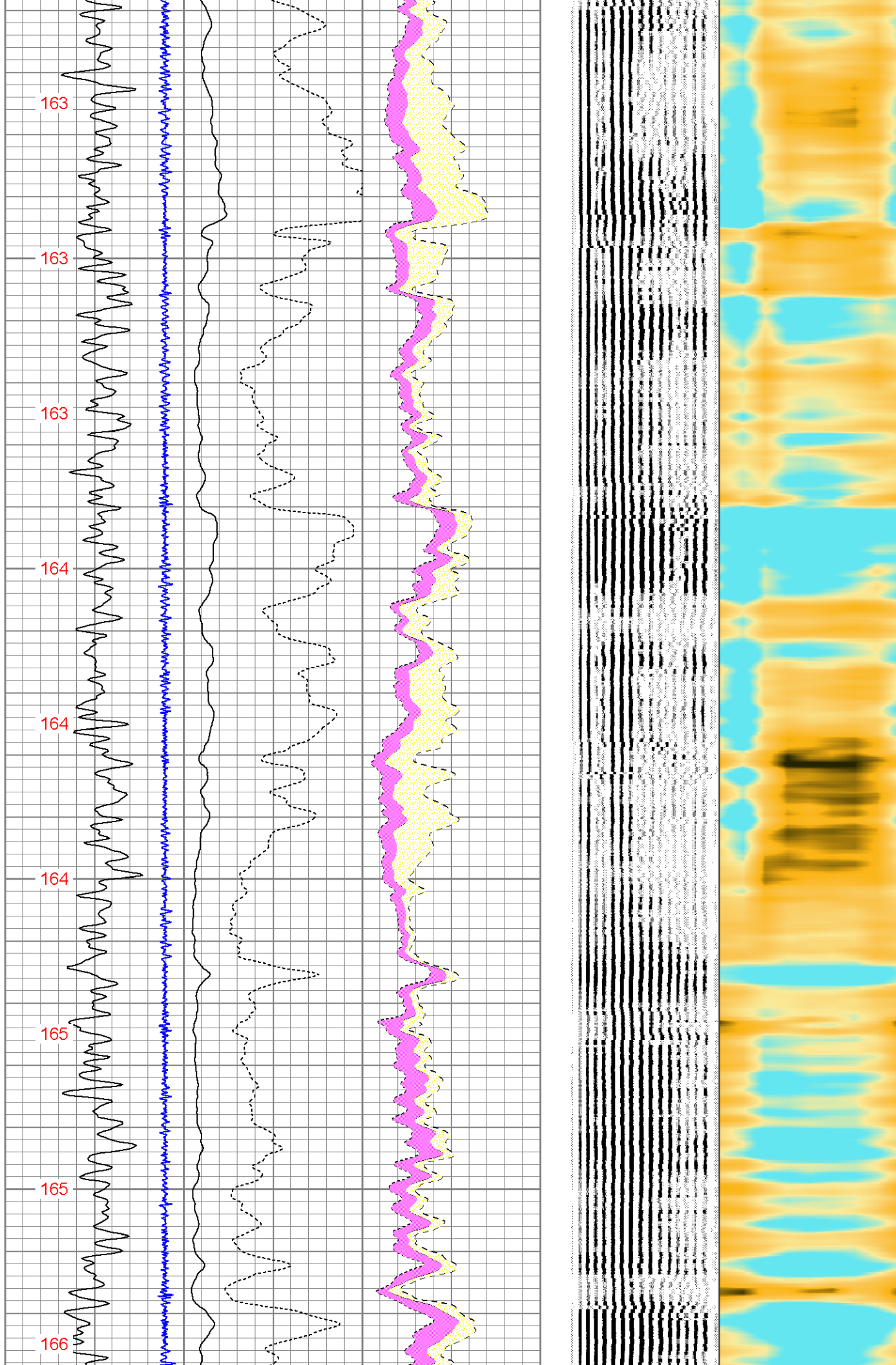
164

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166





4400

4500

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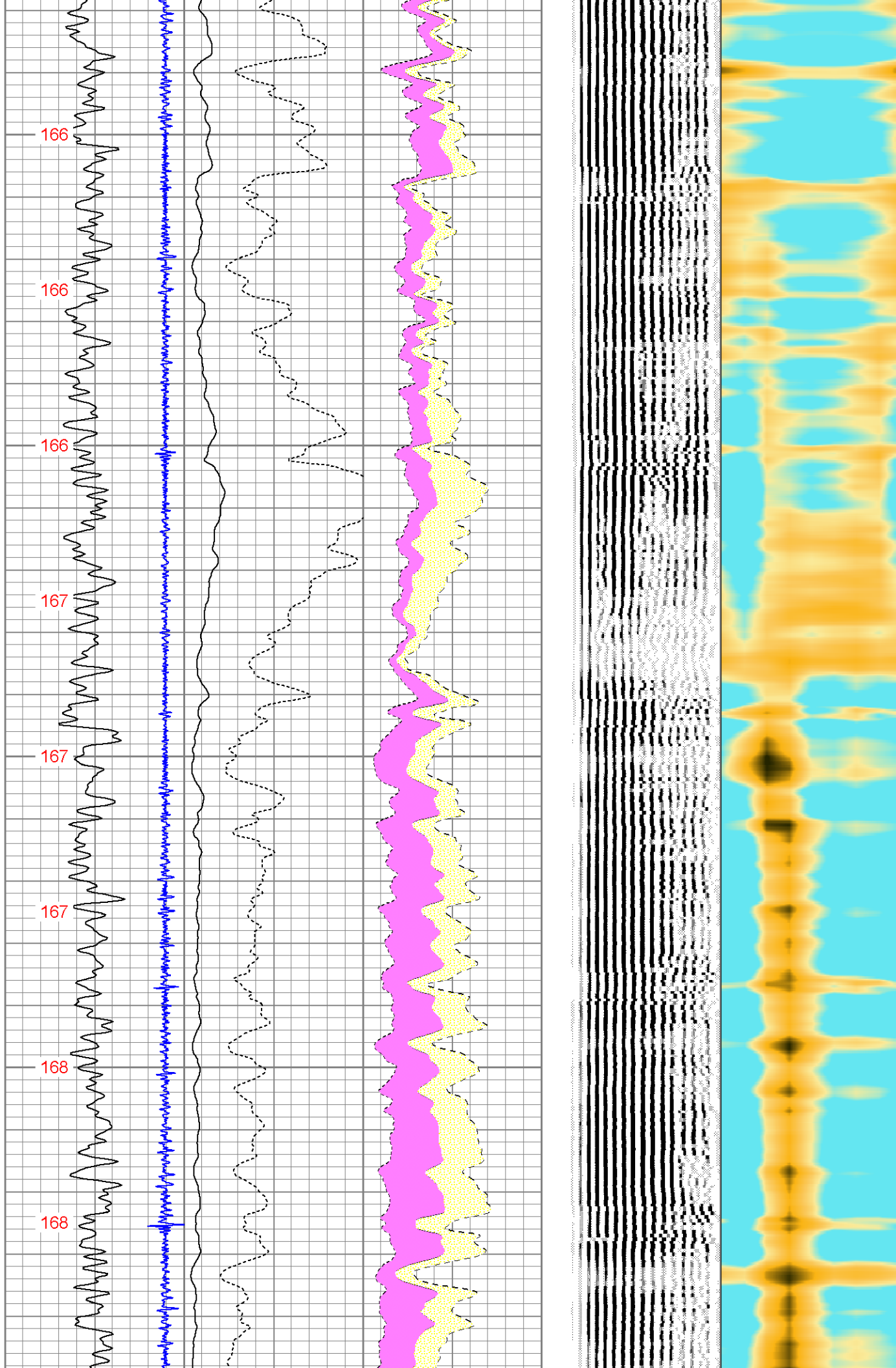
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4600

4700

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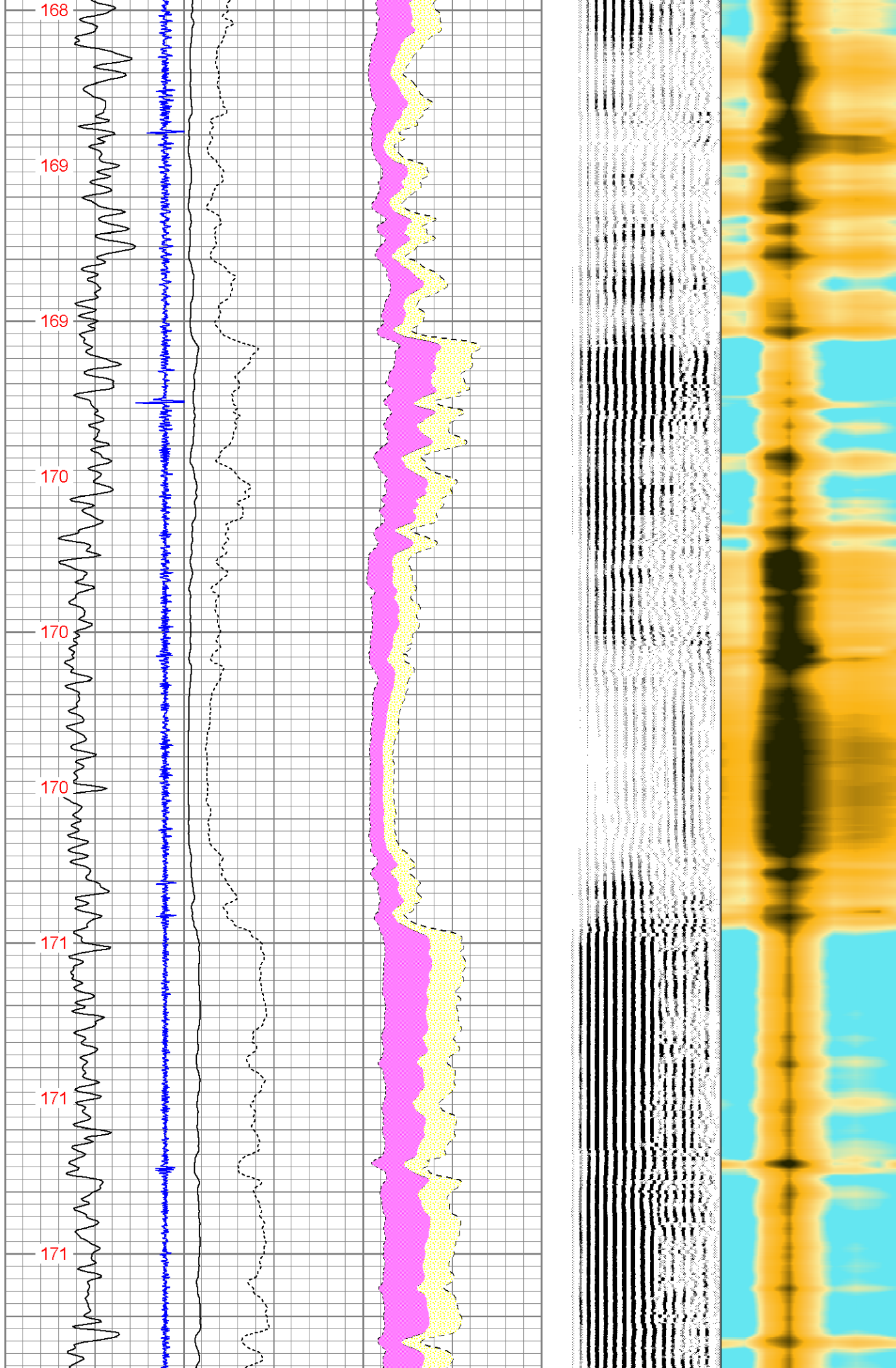
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4800

4900

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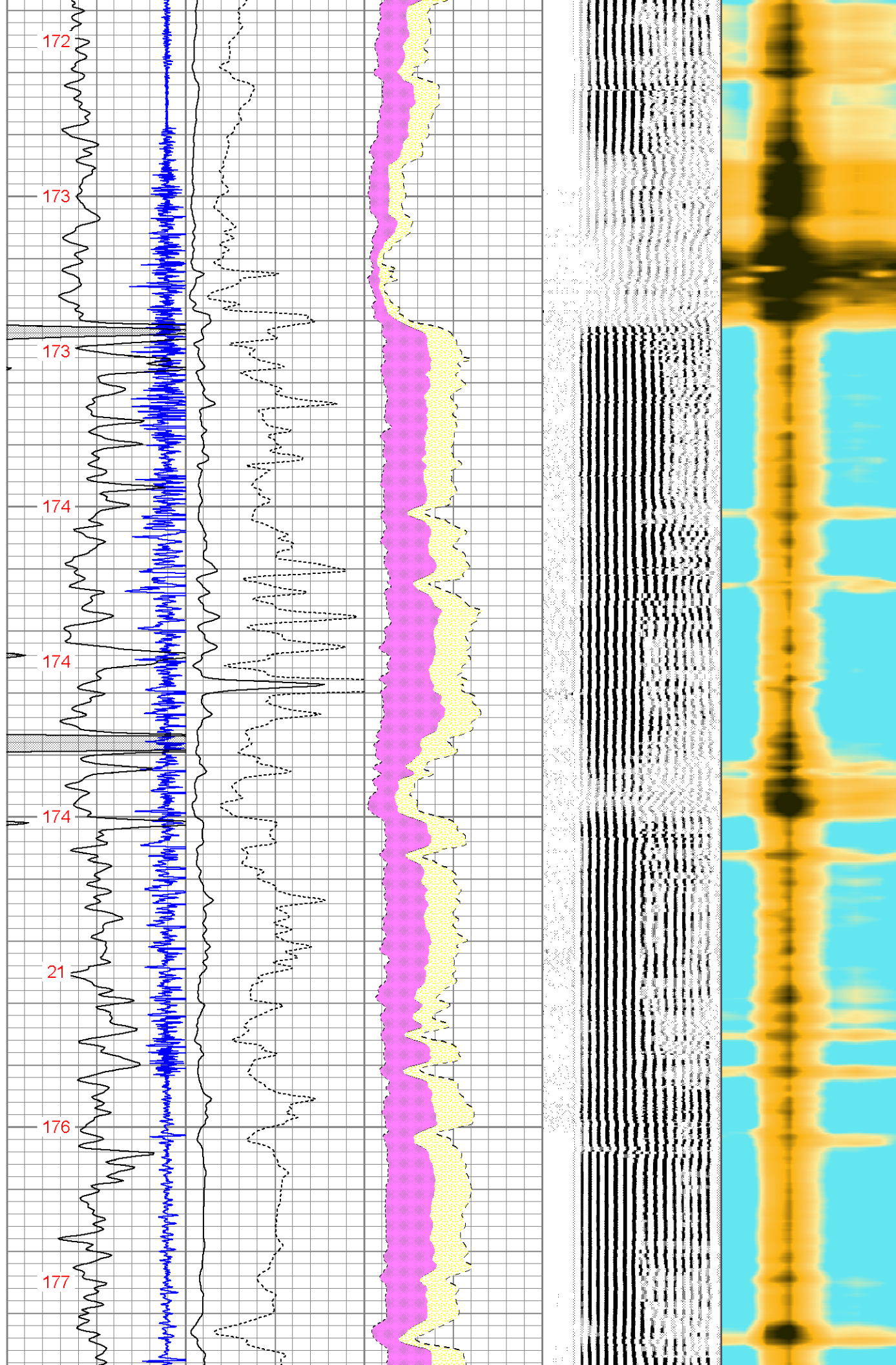
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21

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177





5000

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178

179

179

5100

179

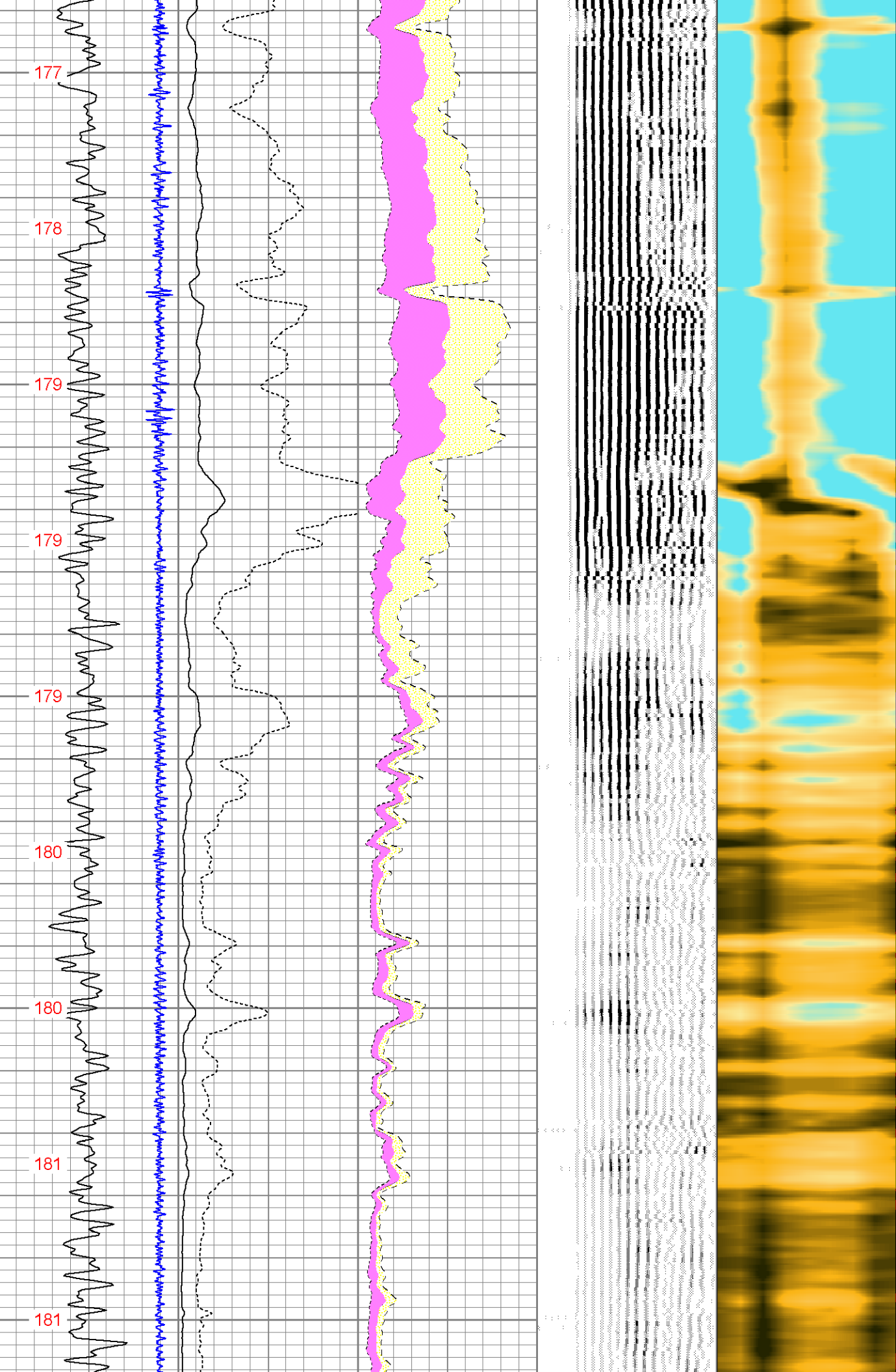
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181

5200

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5300

5400

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183

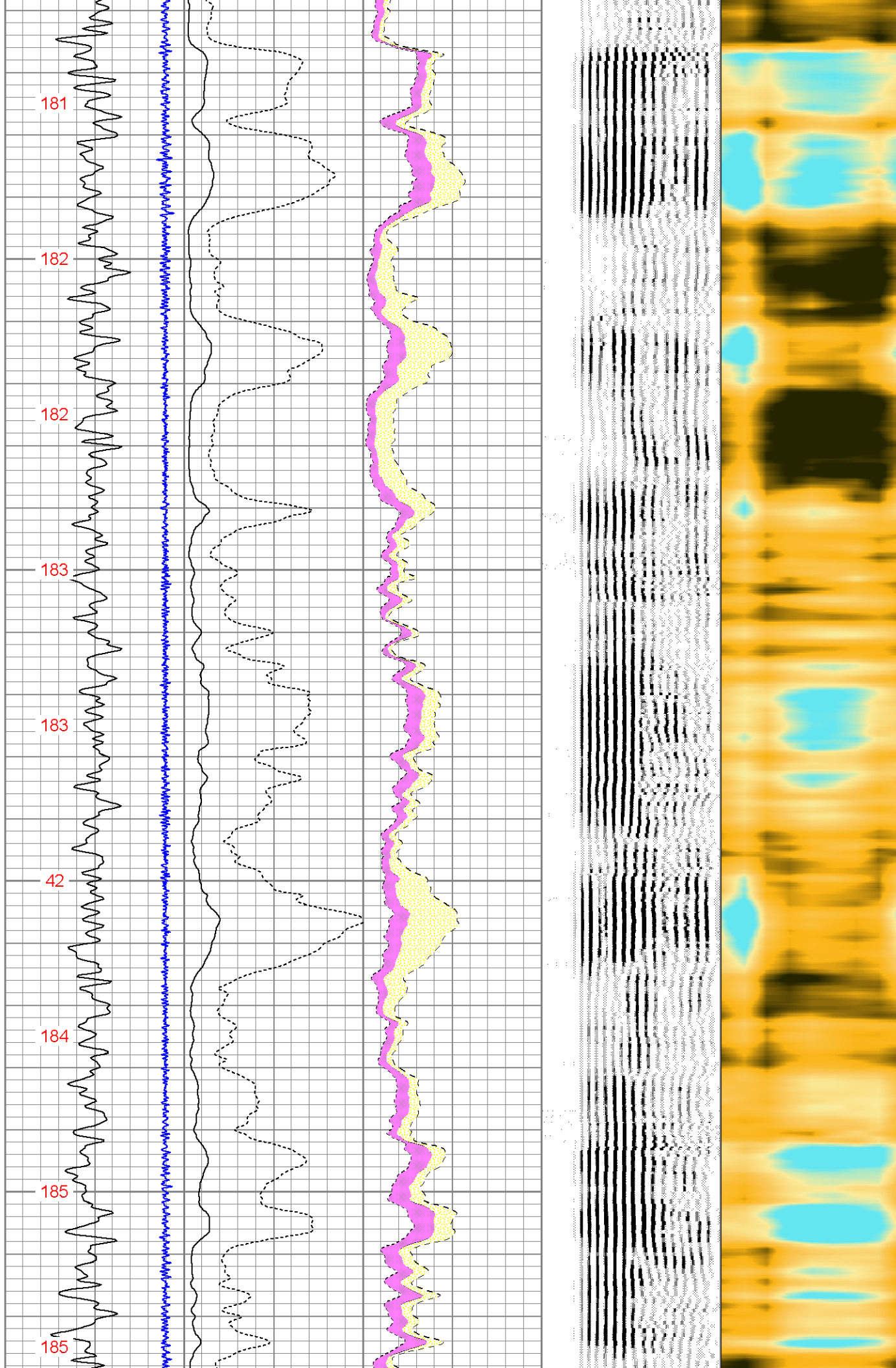
183

42

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5500

5600

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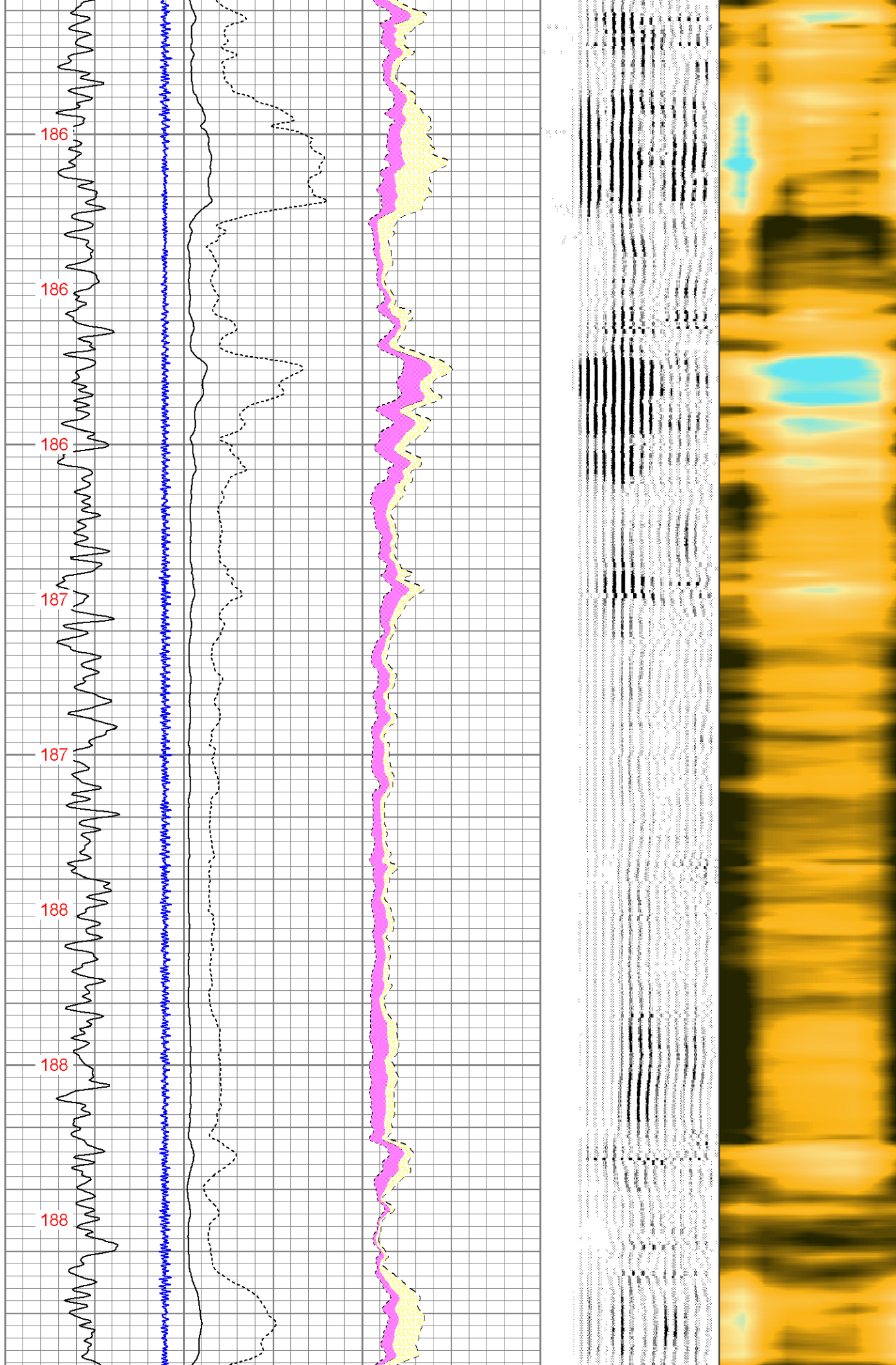
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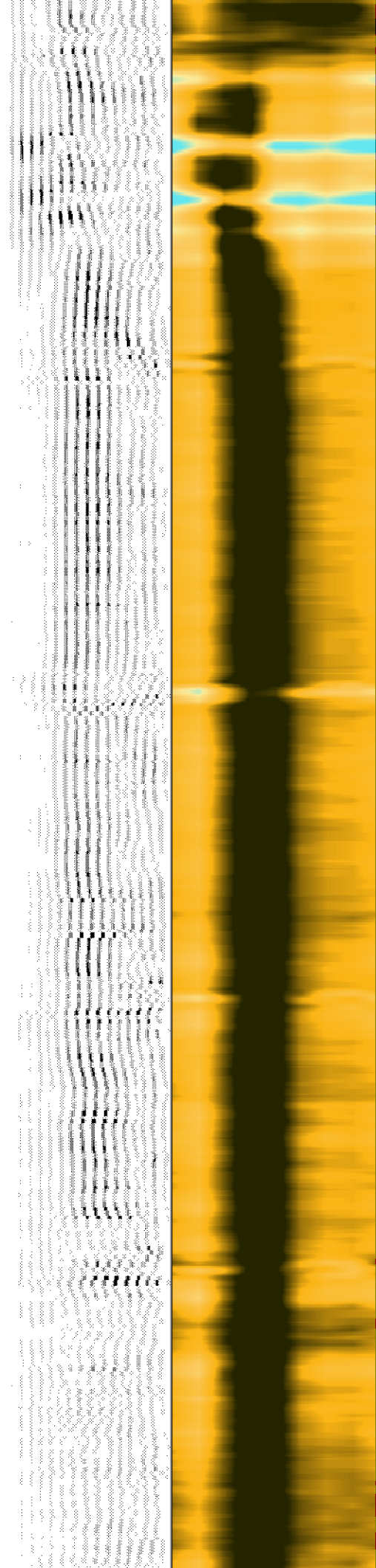
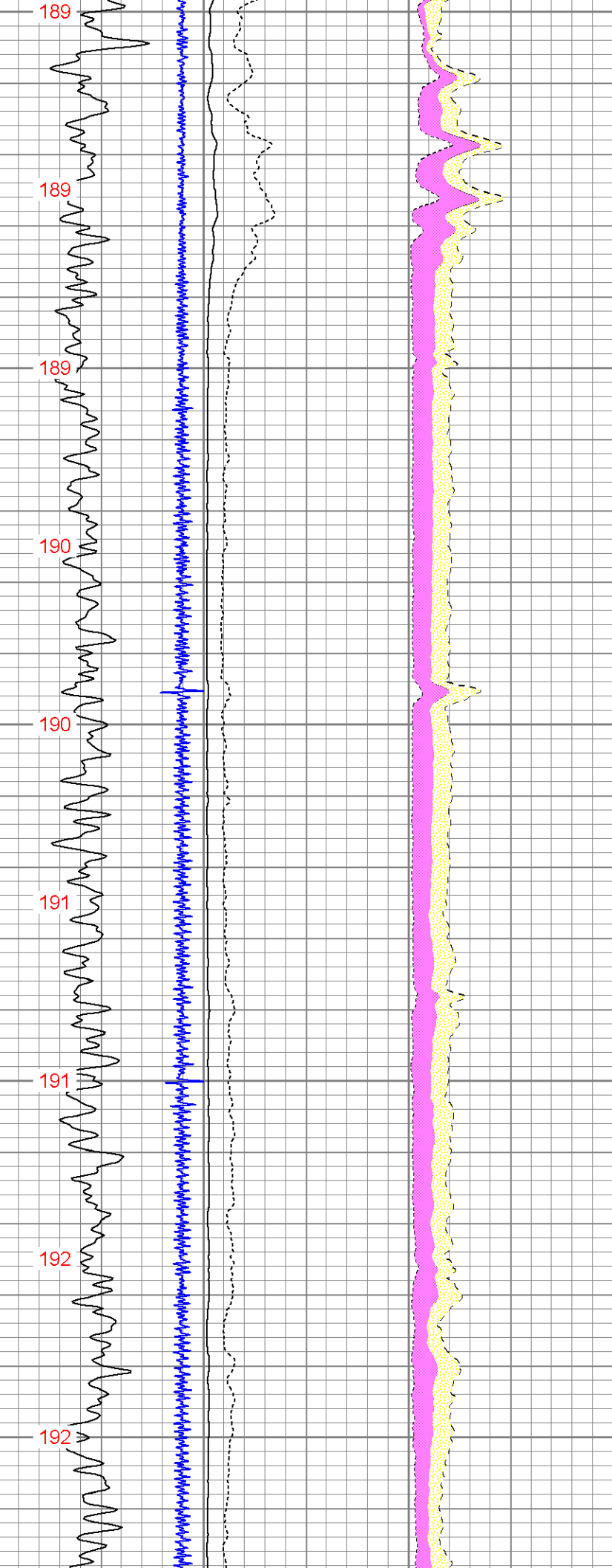
188





5700

5800





5900

6000

193

194

194

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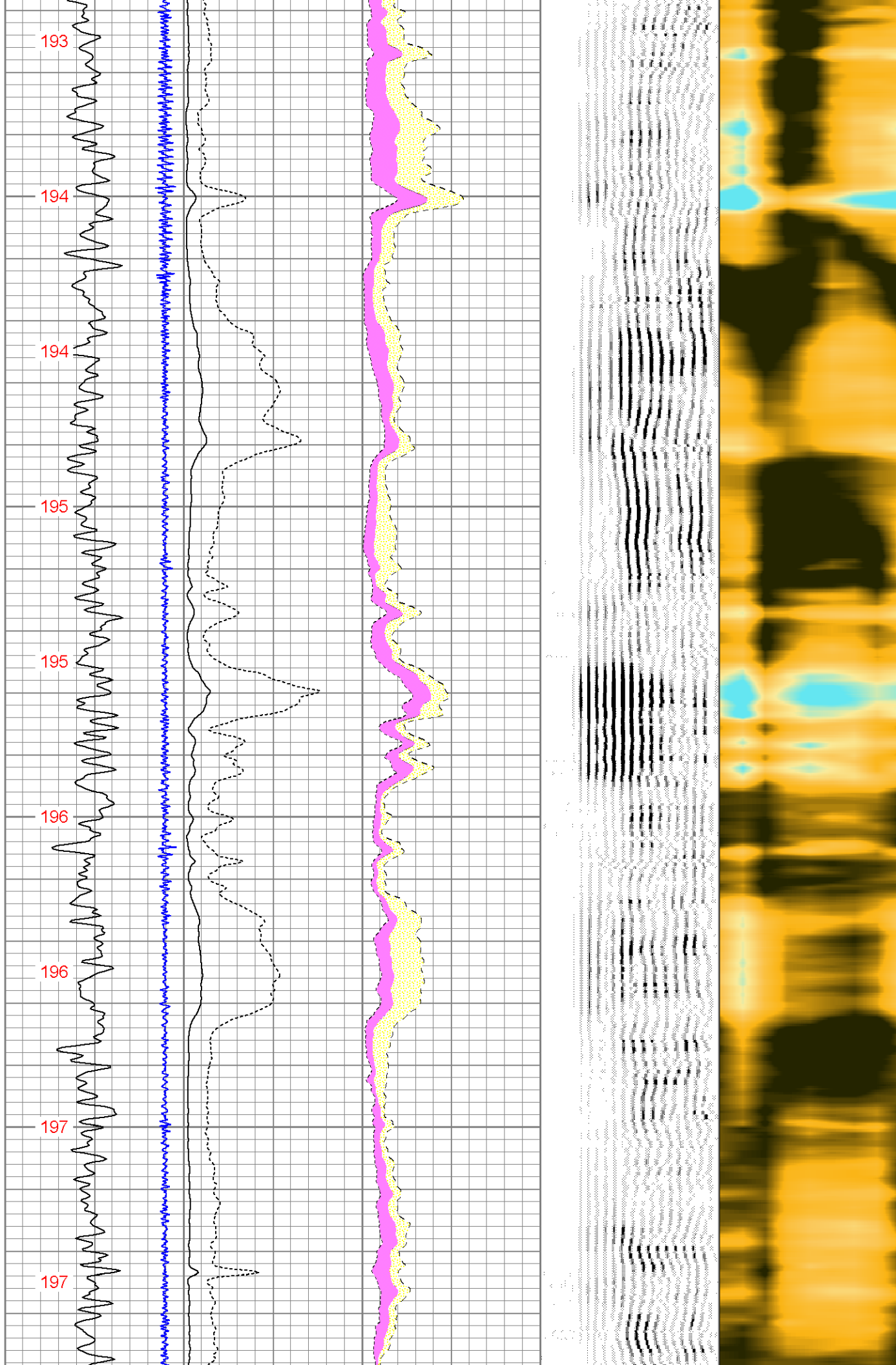
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6100

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6200

200

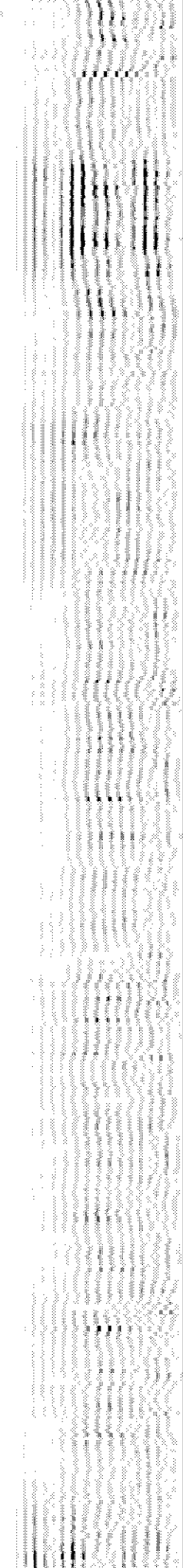
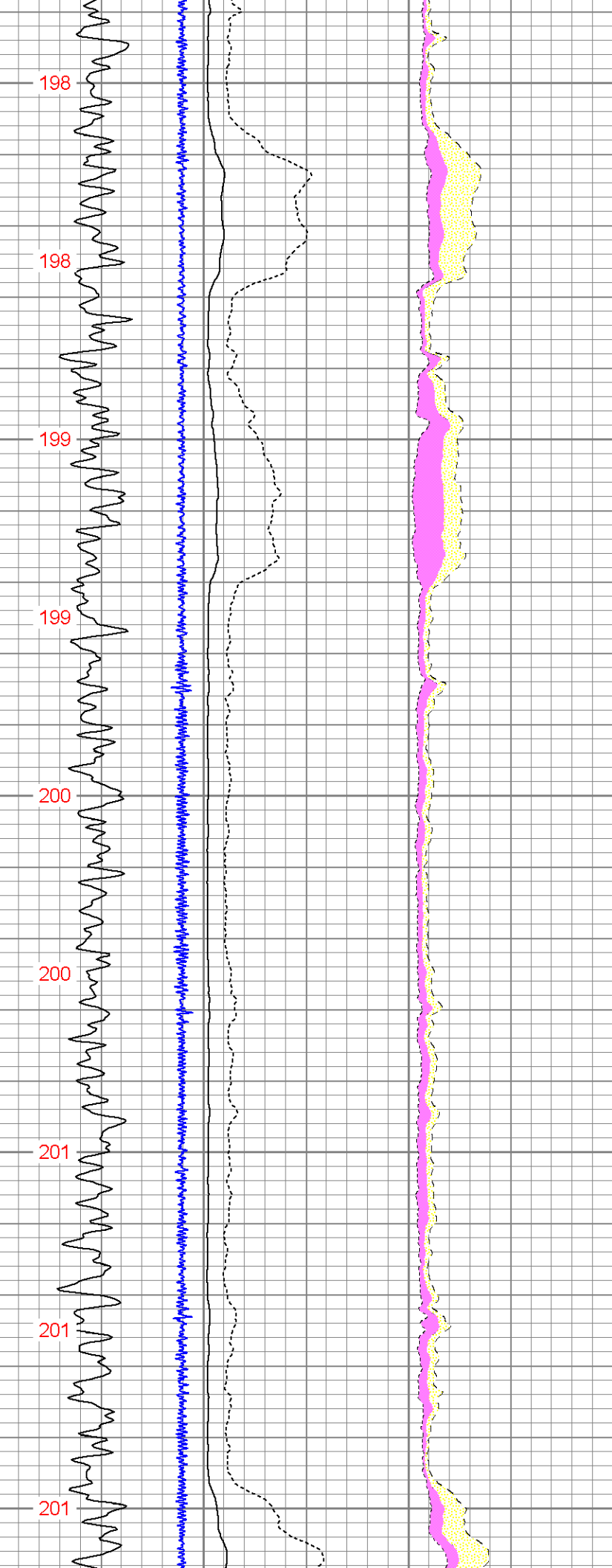
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201

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6300

201





6400

6500

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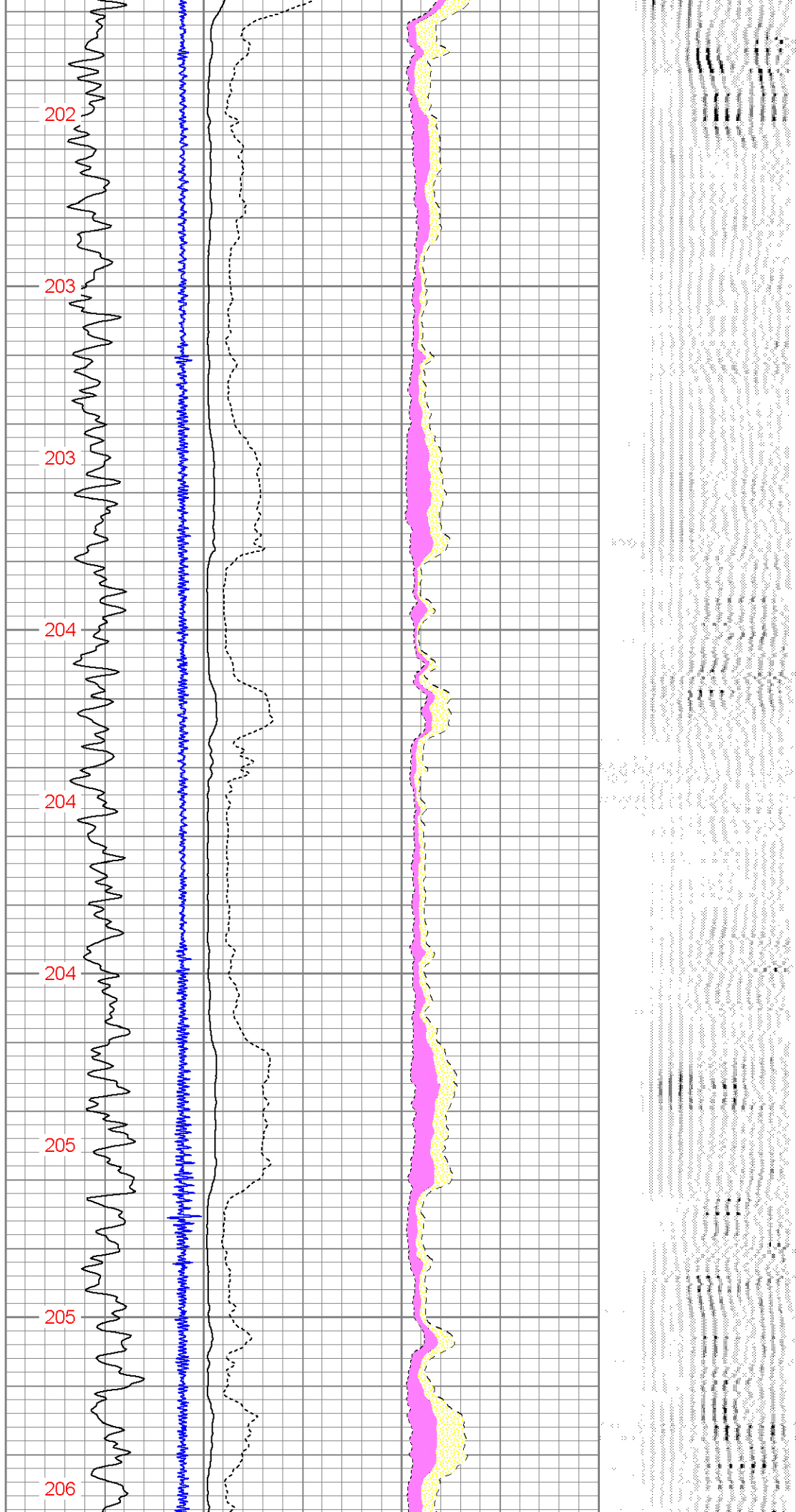
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6600

6700

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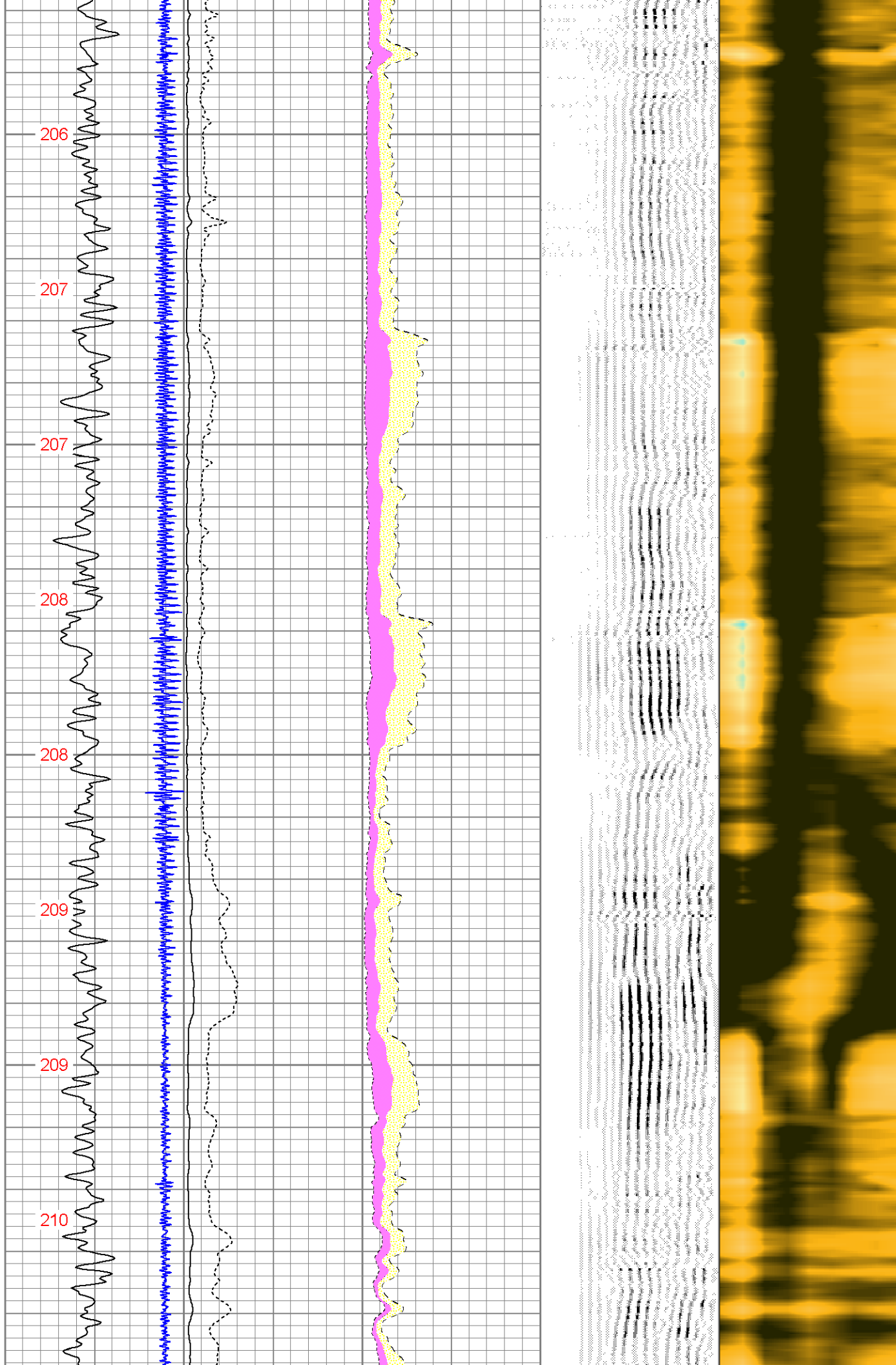
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6800

6900

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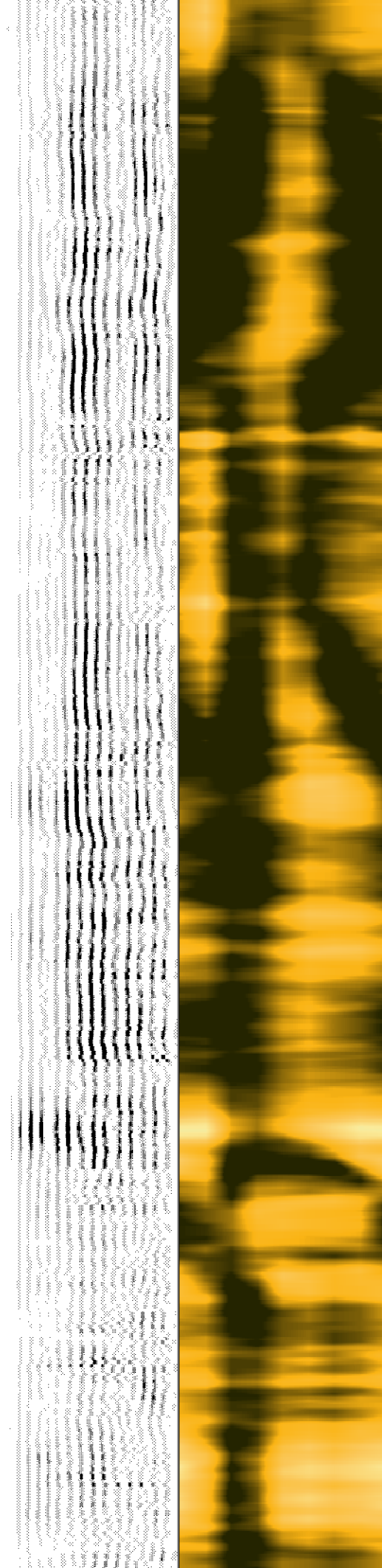
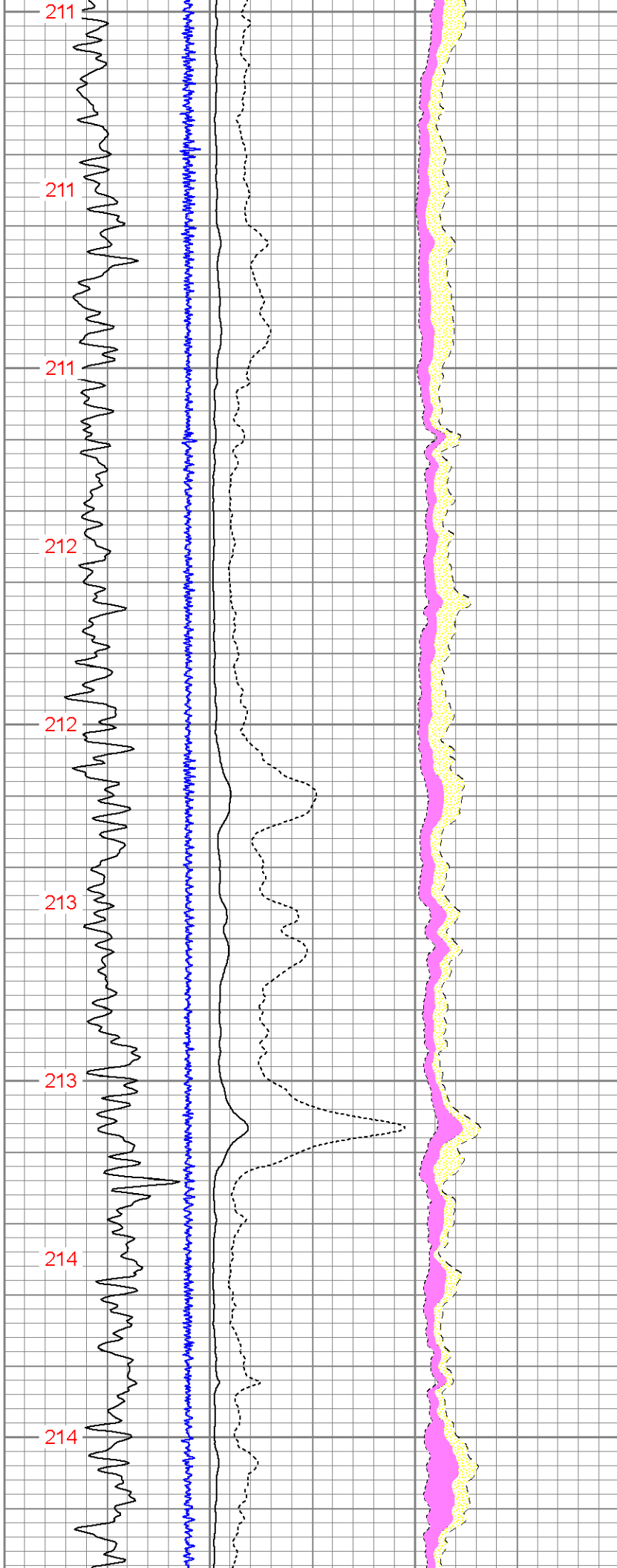
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214





7000

7100

214

215

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215

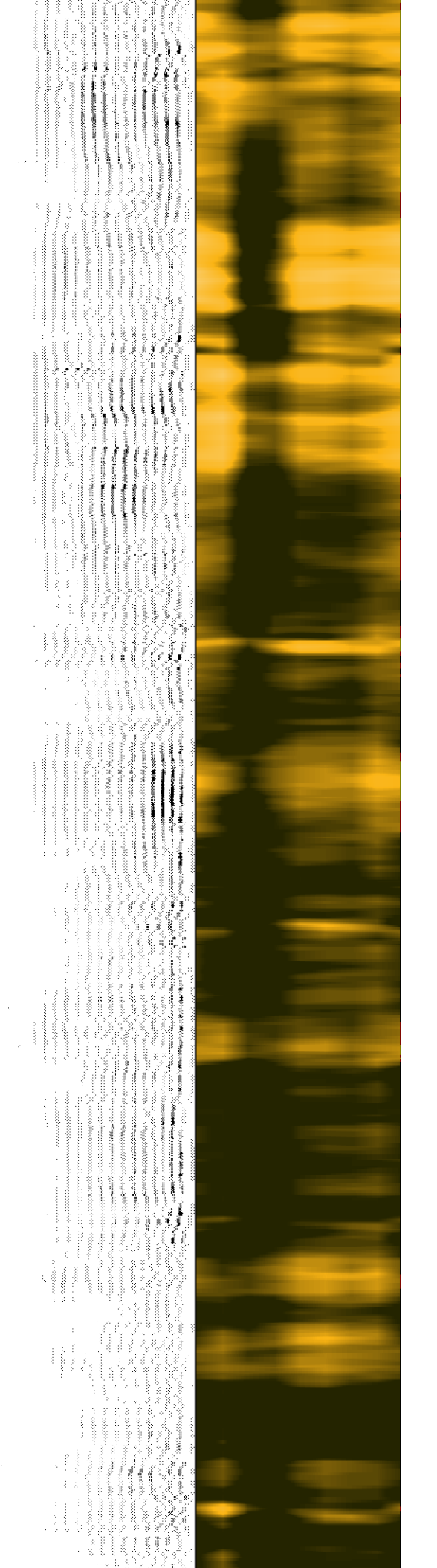
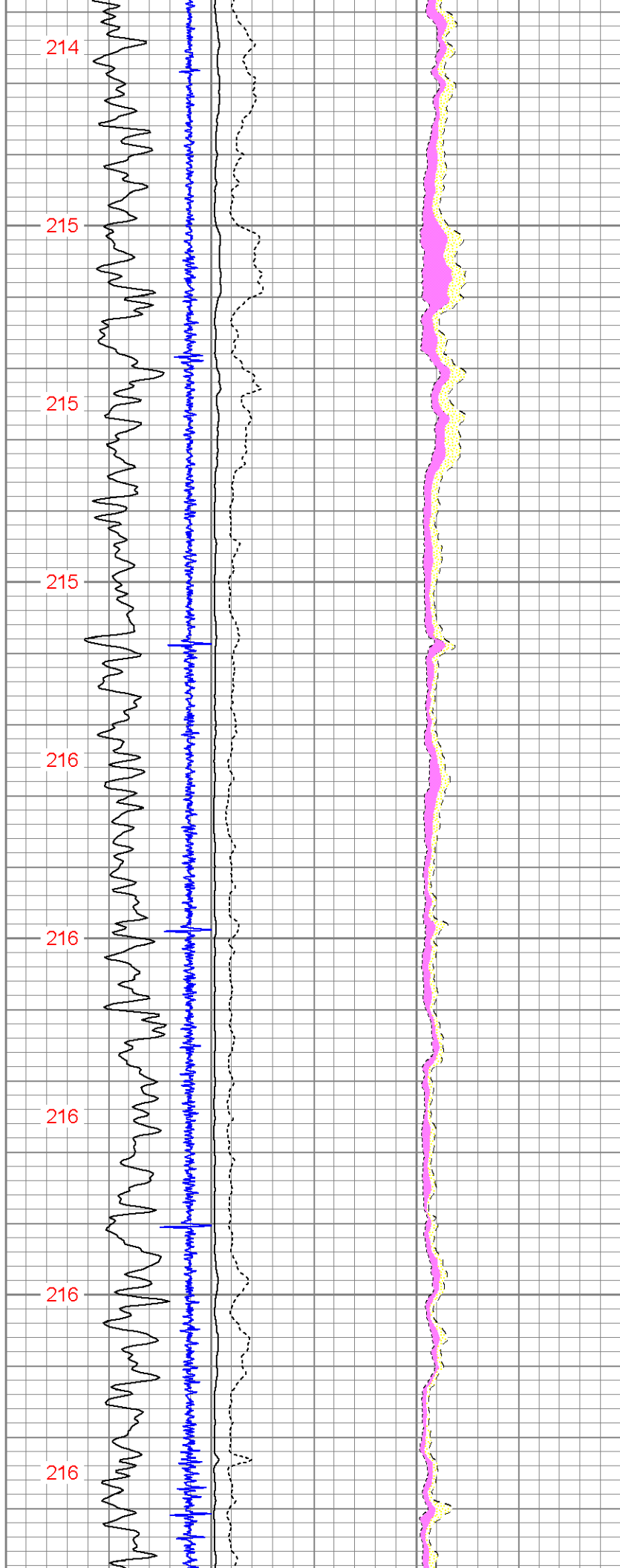
216

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7200

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7300

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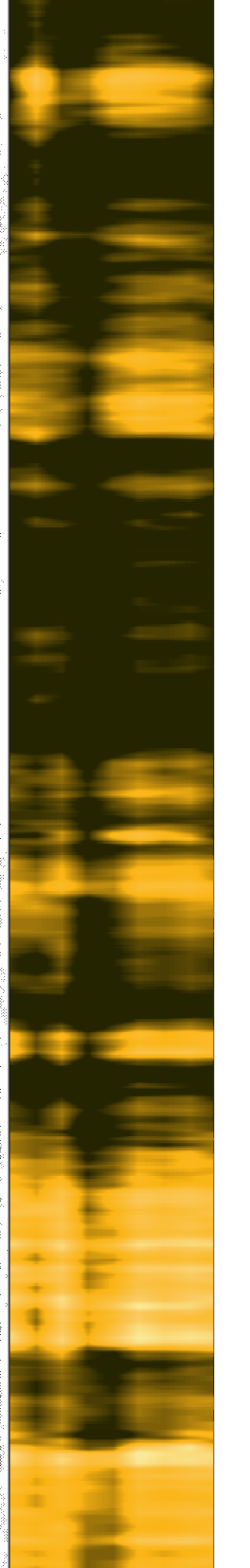
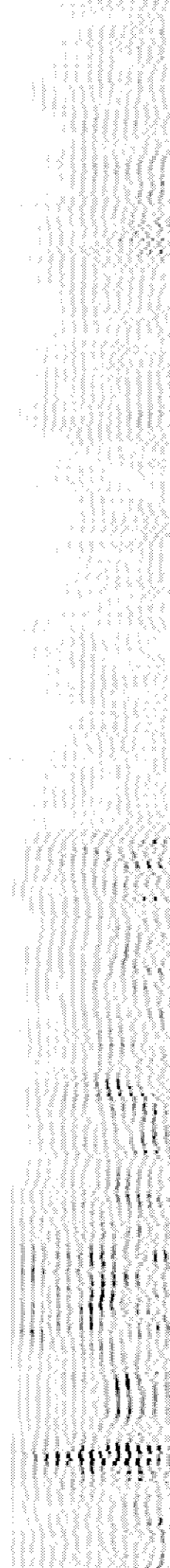
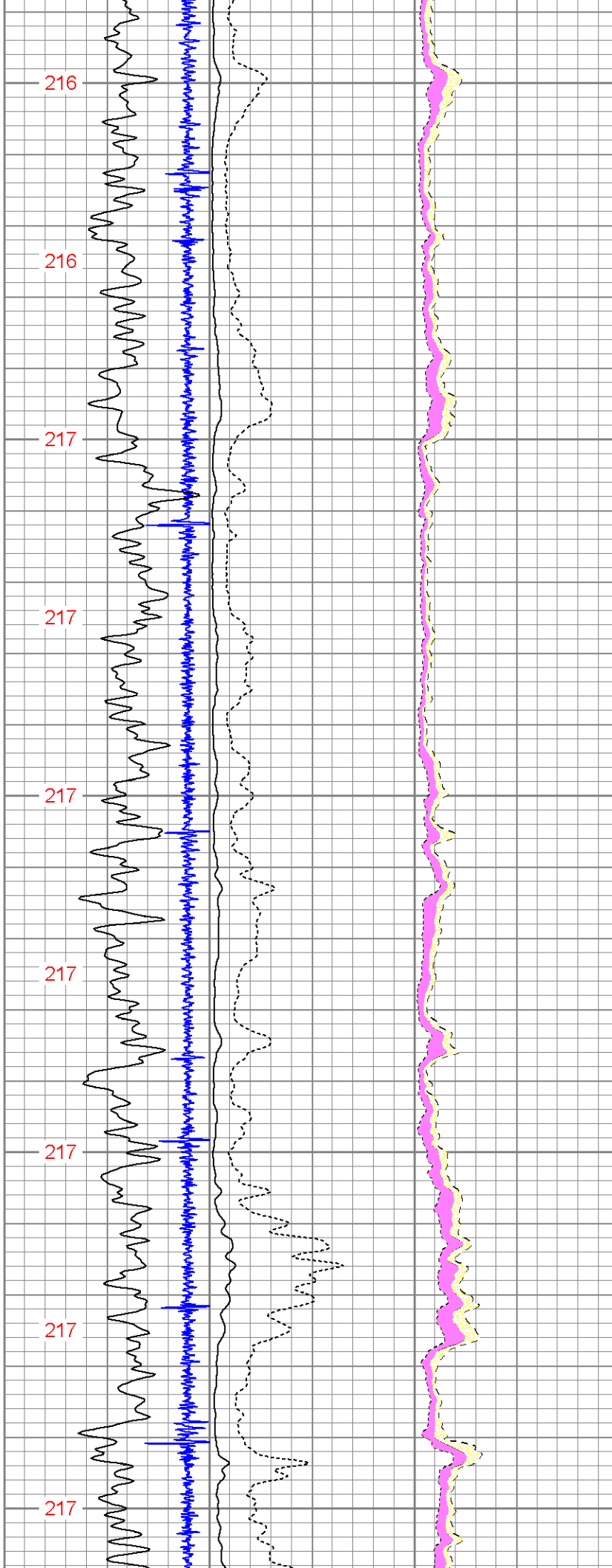
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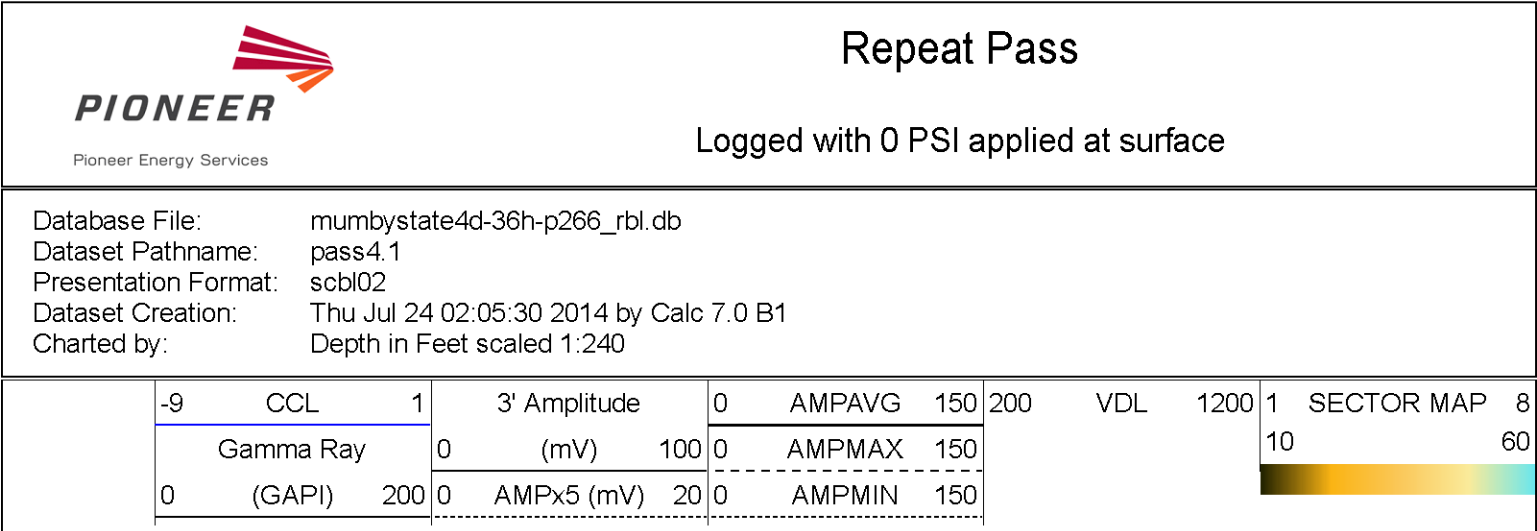
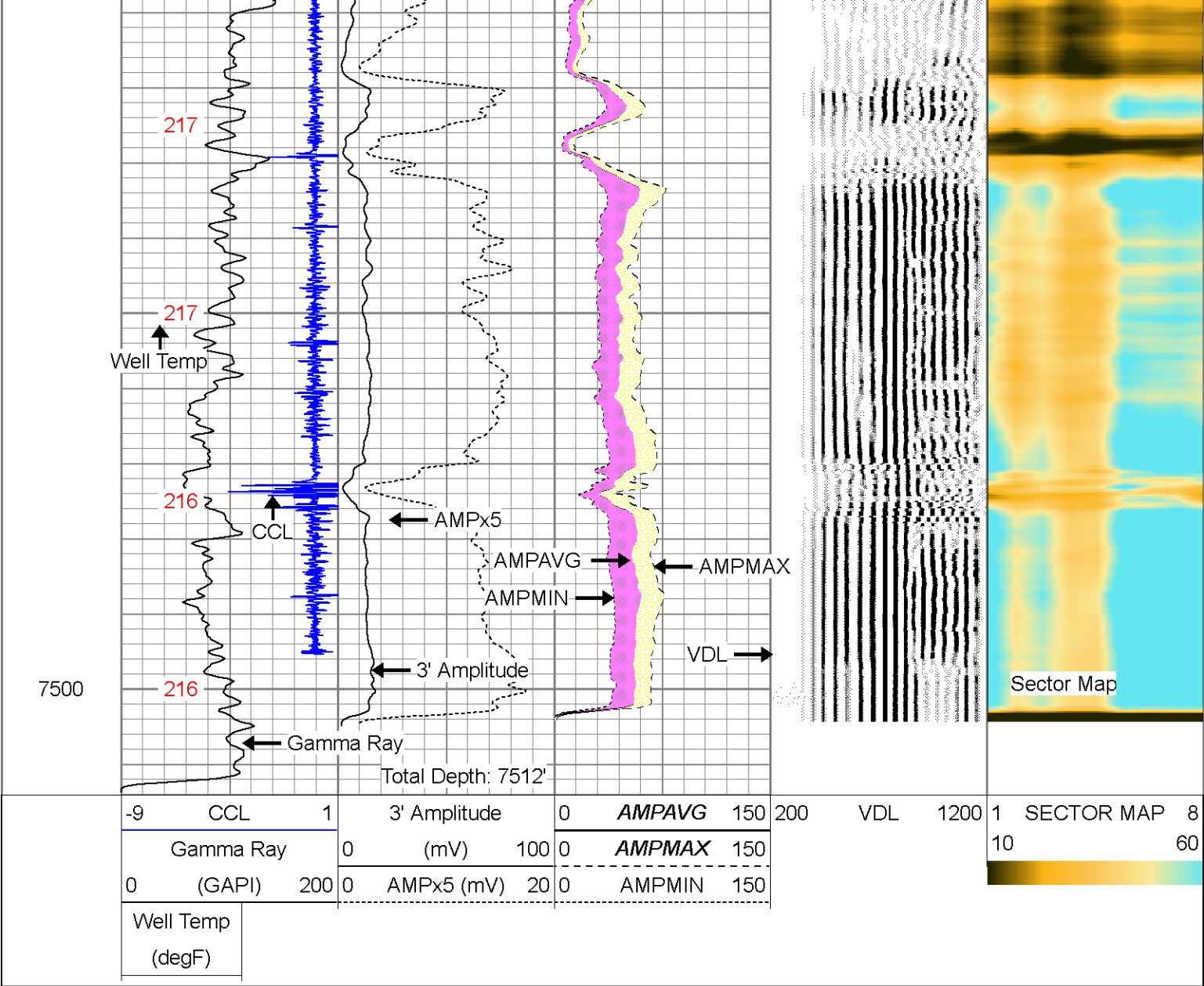
217

7400

217





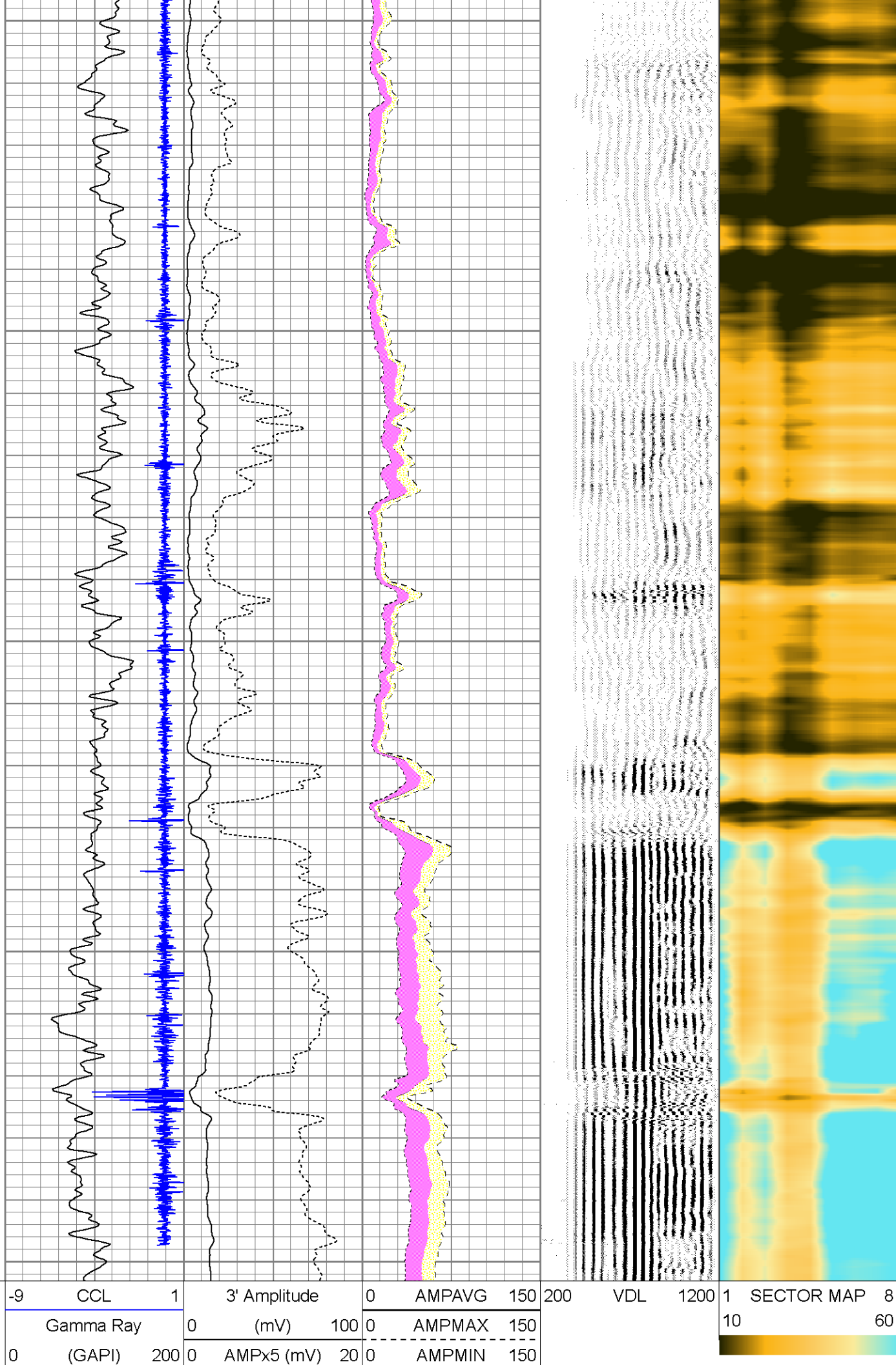




7300

7400

7500





# Calibration Report

Database File: mumbystate4d-36h-p266\_rbl.db  
 Dataset Pathname: pass1  
 Dataset Creation: Wed Jul 23 23:19:59 2014 by Log 7.0 B1

## Gamma Ray Calibration Report

Serial Number: SDS  
 Tool Model: SDSGR  
 Performed: Thu Jul 17 13:33:21 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 1.3000 GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number: 1234  
 Tool Model: 275RIB

Calibration Casing Diameter: 5.500 in  
 Calibration Depth: 0.000 ft

Master Calibration, performed Thu Jul 24 23:15:29 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.009	1.915	0.000	71.921	37.379	0.327
CAL	-0.011	0.998				
5'	-0.006	2.500	0.000	71.921	35.000	0.174
SUM						
S1	-0.008	1.742	0.000	100.000	50.000	0.467
S2	-0.008	1.765	0.000	100.000	50.000	0.472
S3	-0.008	1.890	0.000	100.000	50.000	0.423
S4	-0.007	1.975	0.000	100.000	50.466	0.330
S5	-0.008	2.021	0.000	100.000	50.000	0.397
S6	-0.009	1.939	0.000	100.000	50.000	0.479
S7	-0.009	1.791	0.000	100.000	50.000	0.494
S8	-0.008	1.736	0.000	100.000	50.000	0.487

Internal Reference Calibration, performed Thu Jul 3 09:31:53 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.011	0.998	1.000	0.000

Air Zero Calibration, performed Thu Jul 3 09:48:36 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	-0.009		0.000		0.000	
5'	-0.007		0.000		0.001	
SUM						
S1	-0.009		0.000		0.001	



S1	0.000	0.000	0.001
S2	-0.008	0.000	-0.000
S3	-0.010	0.000	0.002
S4	-0.008	0.000	0.002
S5	-0.008	0.000	0.000
S6	-0.009	0.000	-0.000
S7	-0.007	0.000	-0.001
S8	-0.007	0.000	-0.001

### Temperature Calibration Report

Serial Number: 1234  
Tool Model: 275RIB  
Performed: Thu Oct 12 09:43:27 2006

	Reference	Reading
Low Reference:	75.00 degF	300.00 usec
High Reference:	400.00 degF	1282.00usec

Gain: 0.33  
Offset: -7.00  
Delta Spacing 1



Company: ENCANA OIL & GAS (USA) INC.  
Well: MUMBY STATE 4D-36H-P266  
Field: WATTENBERG  
County: WELD  
State: CO