



TEMPERATURE LOG CCL

Company URSA OPERATING COMPANY
Well CSF 22C-09-07-91
Field CASTLE SPRINGS
County GARFIELD
State CO

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Well CSF 22C-09-07-91
Field CASTLE SPRINGS
County GARFIELD State CO

Location: API #: 05-045-19815-0000
1420' FSL 2 2474' FWL
SEC. 9 TWP. 7S RGE. 91W
Permanent Datum GROUND LEVEL Elevation 6807'
Log Measured From KELLY BUSHING = 15.5'
Drilling Measured From KELLY BUSHING
Other Services
HOLE
Elevation
K.B. 6822.5'
D.F. 6821.5'
G.L. 6807'

Date 24 JULY 2014

Run Number	ONE
Depth Driller	N/A
Depth Logger	7787'
Bottom Logged Interval	7787'
Top Log Interval	SURFACE
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	--8.33#
Max. Recorded Temp.	200.2 DEG F
Estimated Cement Top	SEE LOG
Time Well Ready	13:00
Time Logger on Bottom	14:00
Equipment Number	058
Location	GRAND JUNCTION, CO
Recorded By	R. DONALSON
Witnessed By	N. GILL

Borehole Record			Tubing Record		
Run Number	Bit From	To	Size	Weight	From To
ONE	24"	0'	80'		
TWO	12.25"	60'	1100'		
THREE	7.875"	1100'	BOTTOM		

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625"	32#	0'	1100'
Prot. String				
Production String	4.5"	11.6#	0'	7900'
Liner				

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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 WAS CORRELATED TO KELLY BUSHING
LOG WAS RUN APPROXIMATELY FOUR HOURS AFTER CEMENT JOB

degF —

0

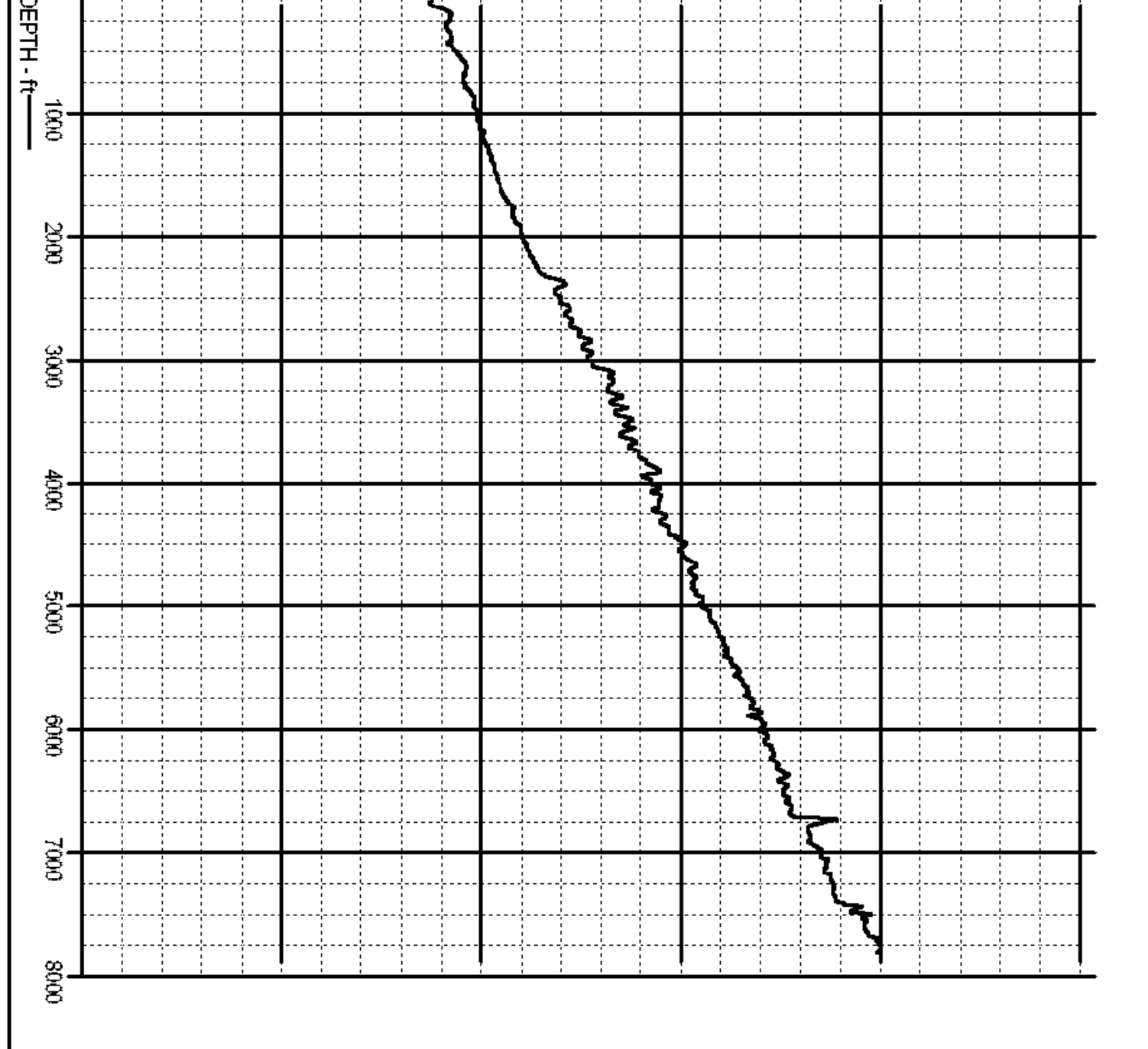
50

100

150

200

250

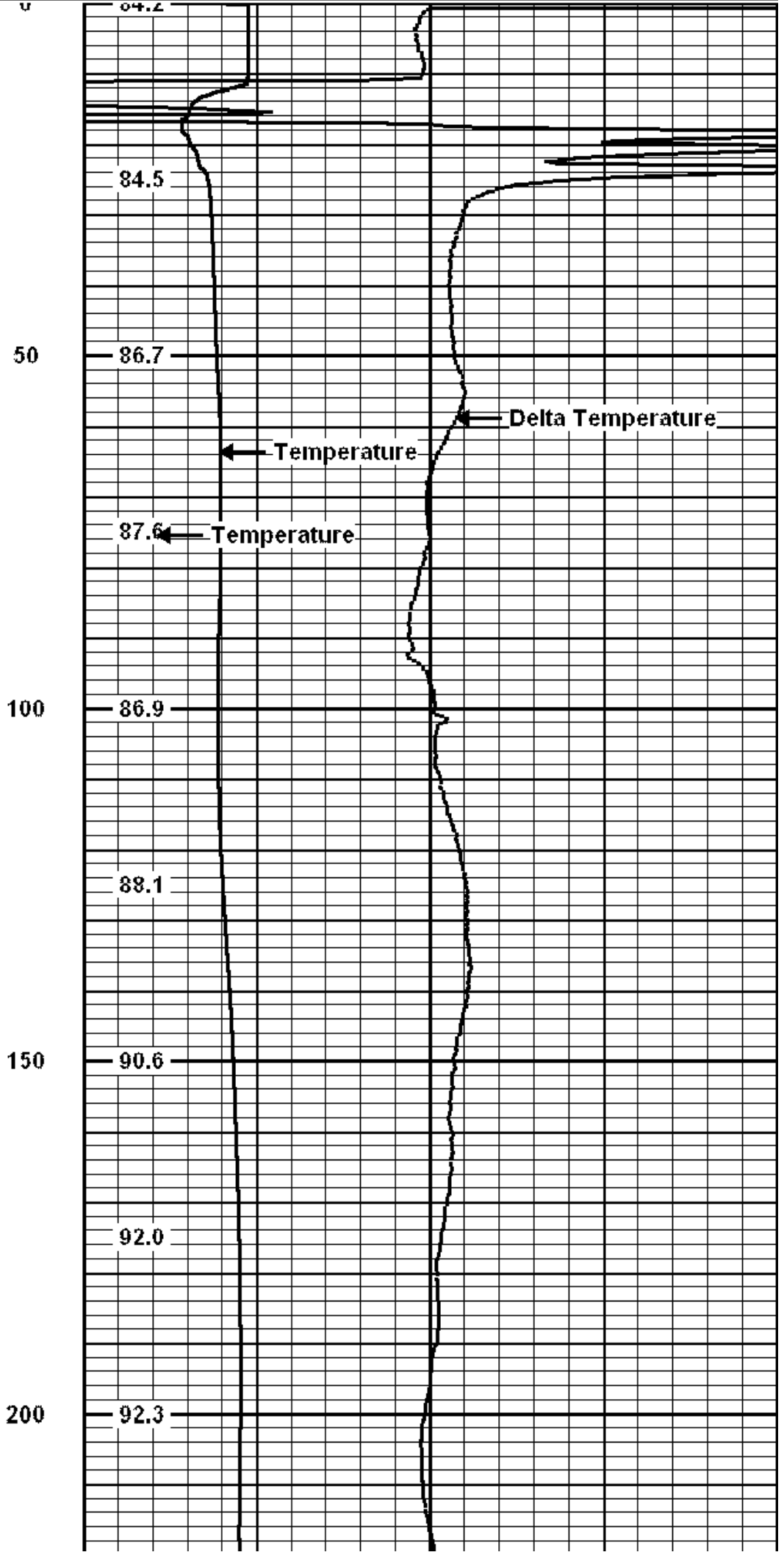
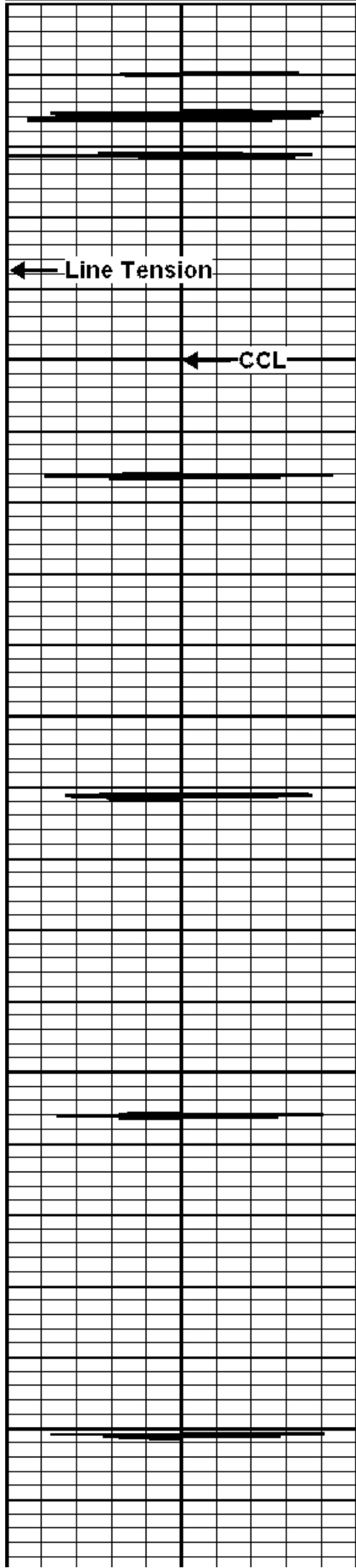


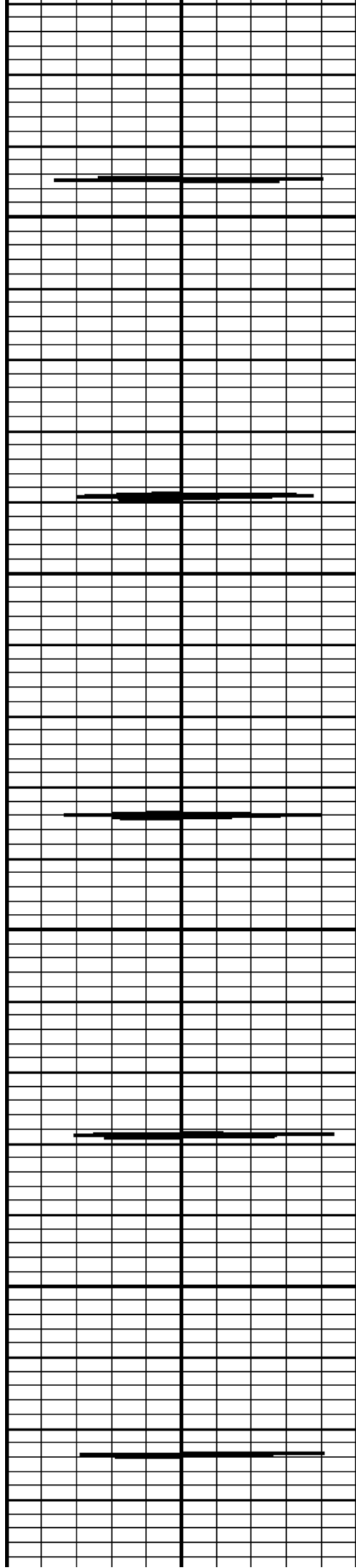
MAIN PASS

Database File: csf_22c-09-07-91_temp.db
Dataset Pathname: pass2
Presentation Format: temp
Dataset Creation: Thu Jul 24 13:14:28 2014 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

-5	CCL	5
0	LTEN (lb)	5000

55	TEMP (degF)	220
-1	DTMP (degF)	1
TEMP (degF)		



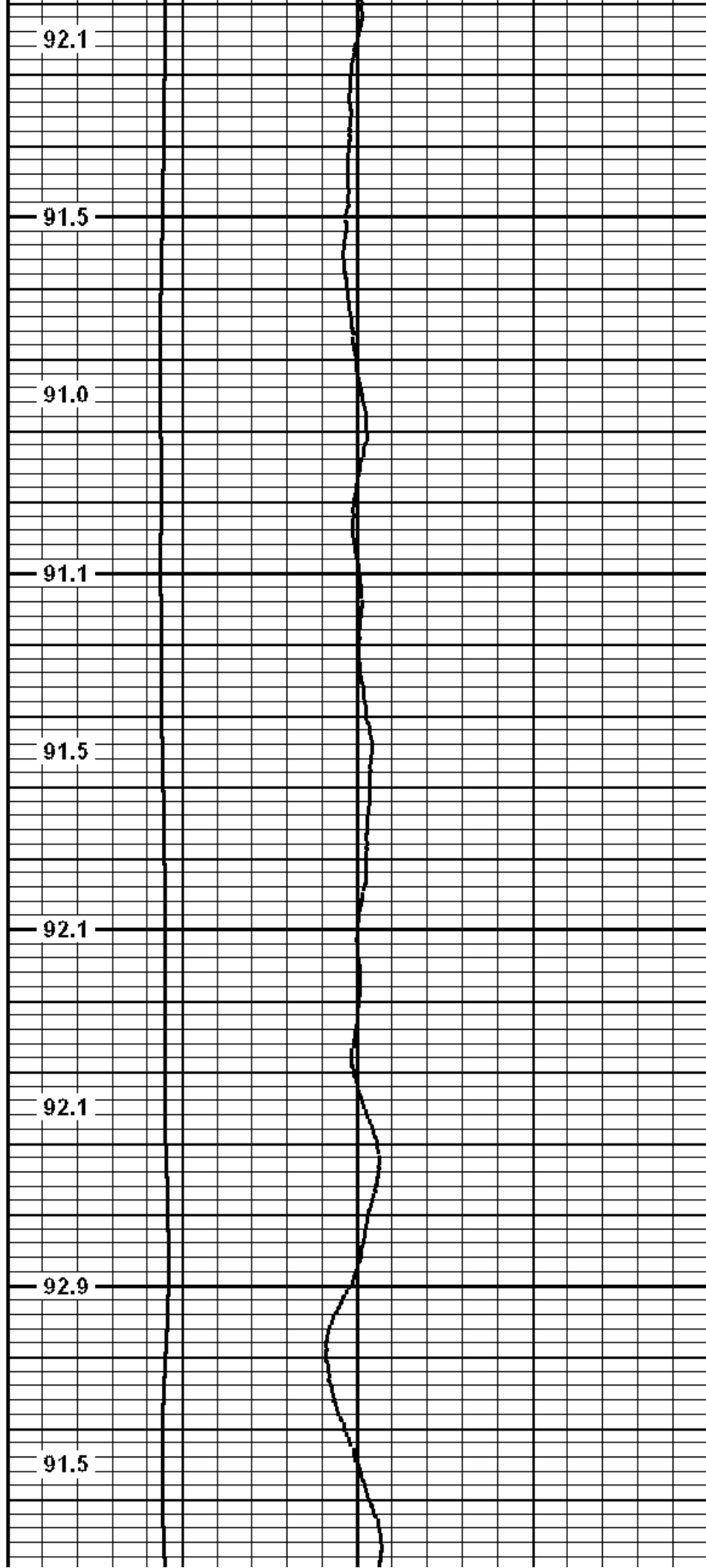


250

300

350

400



92.1

91.5

91.0

91.1

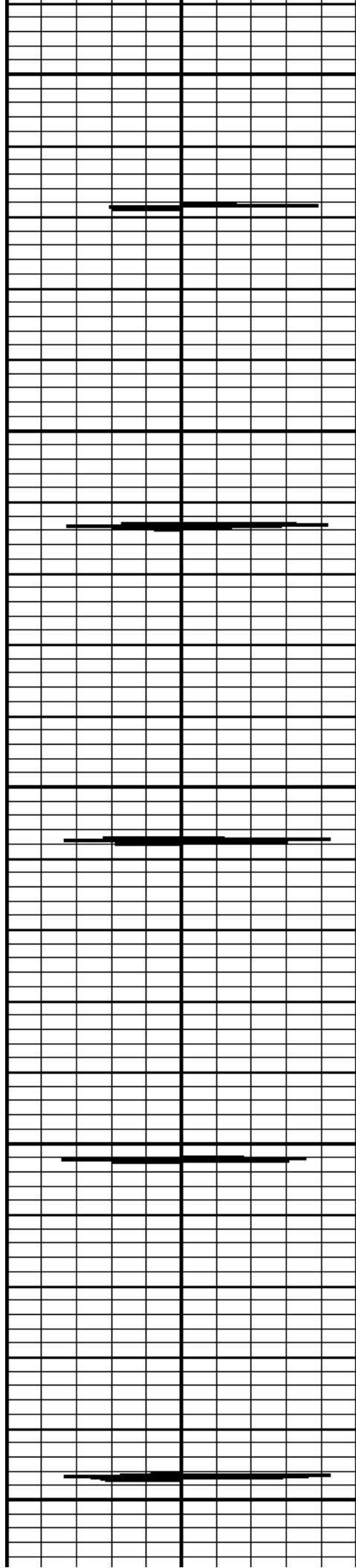
91.5

92.1

92.1

92.9

91.5



450

500

550

600

650

92.7

93.2

94.0

94.5

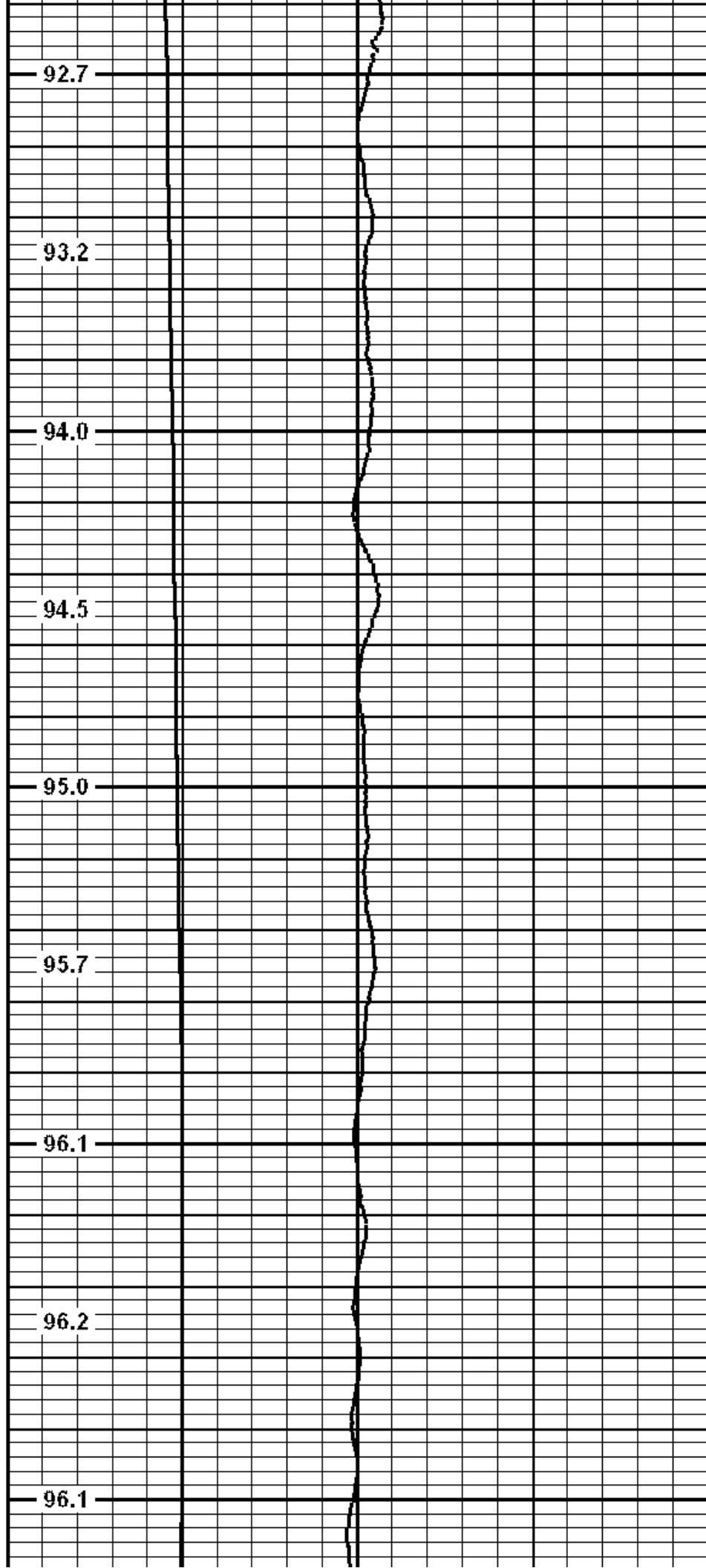
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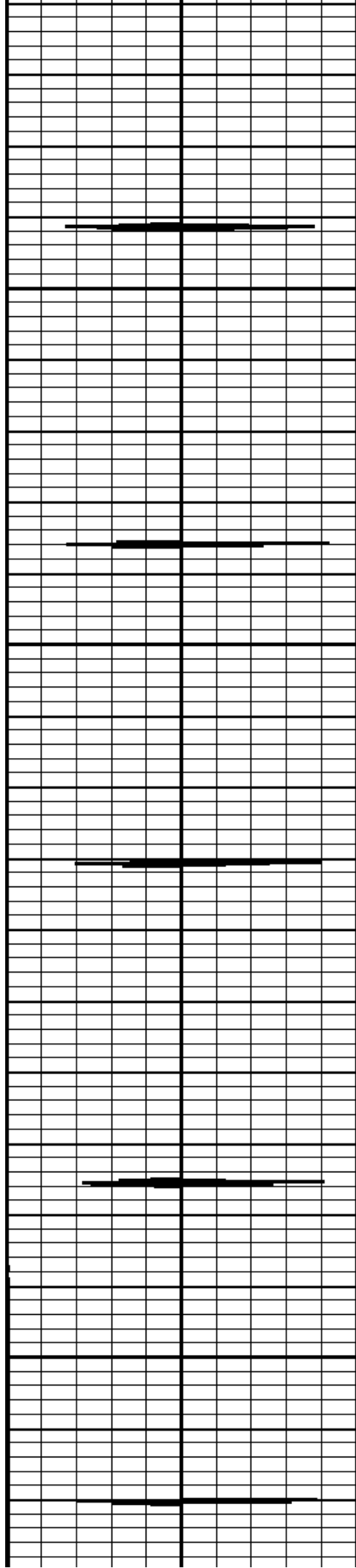
95.7

96.1

96.2

96.1





700

750

800

850

95.7

95.5

95.6

95.8

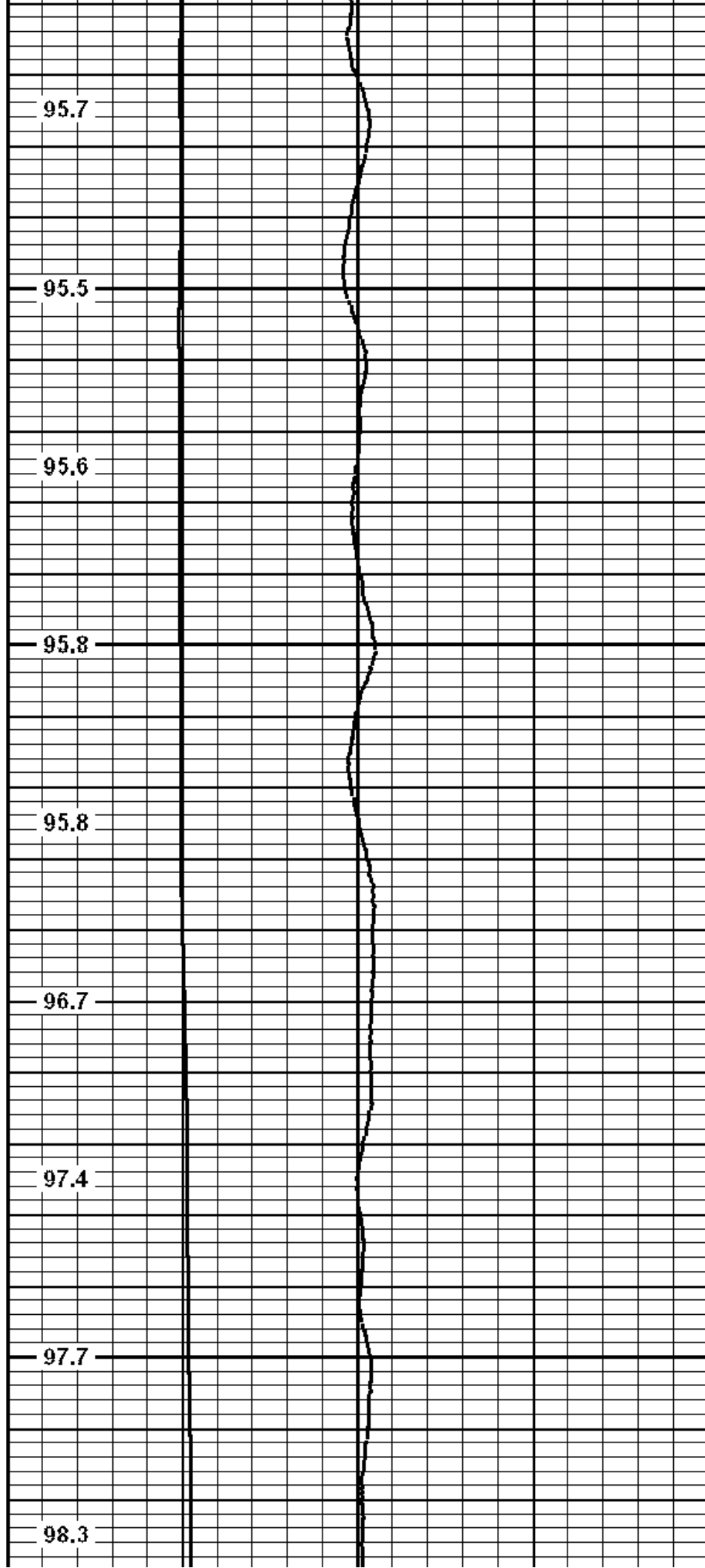
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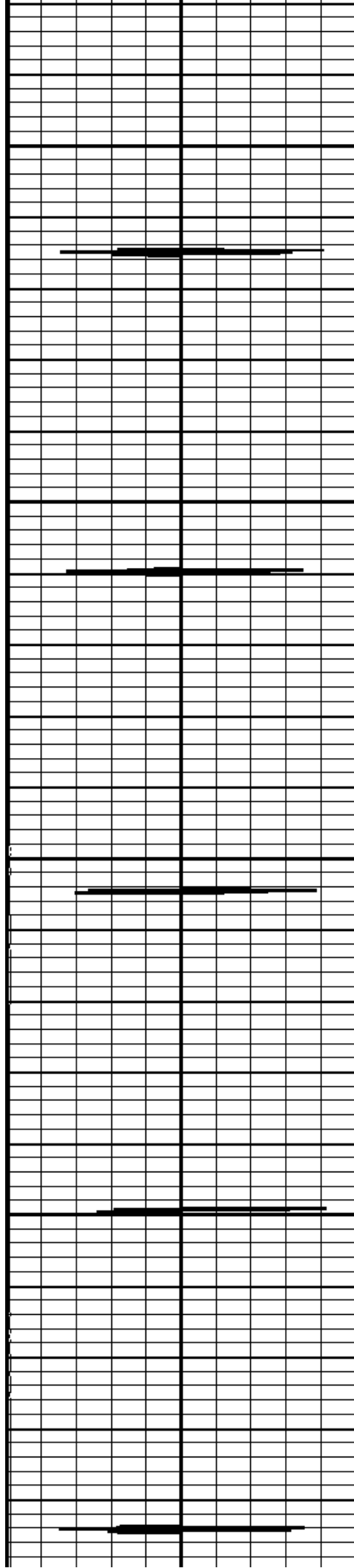
96.7

97.4

97.7

98.3





900

950

1000

1050

1100

98.2

97.9

98.4

99.0

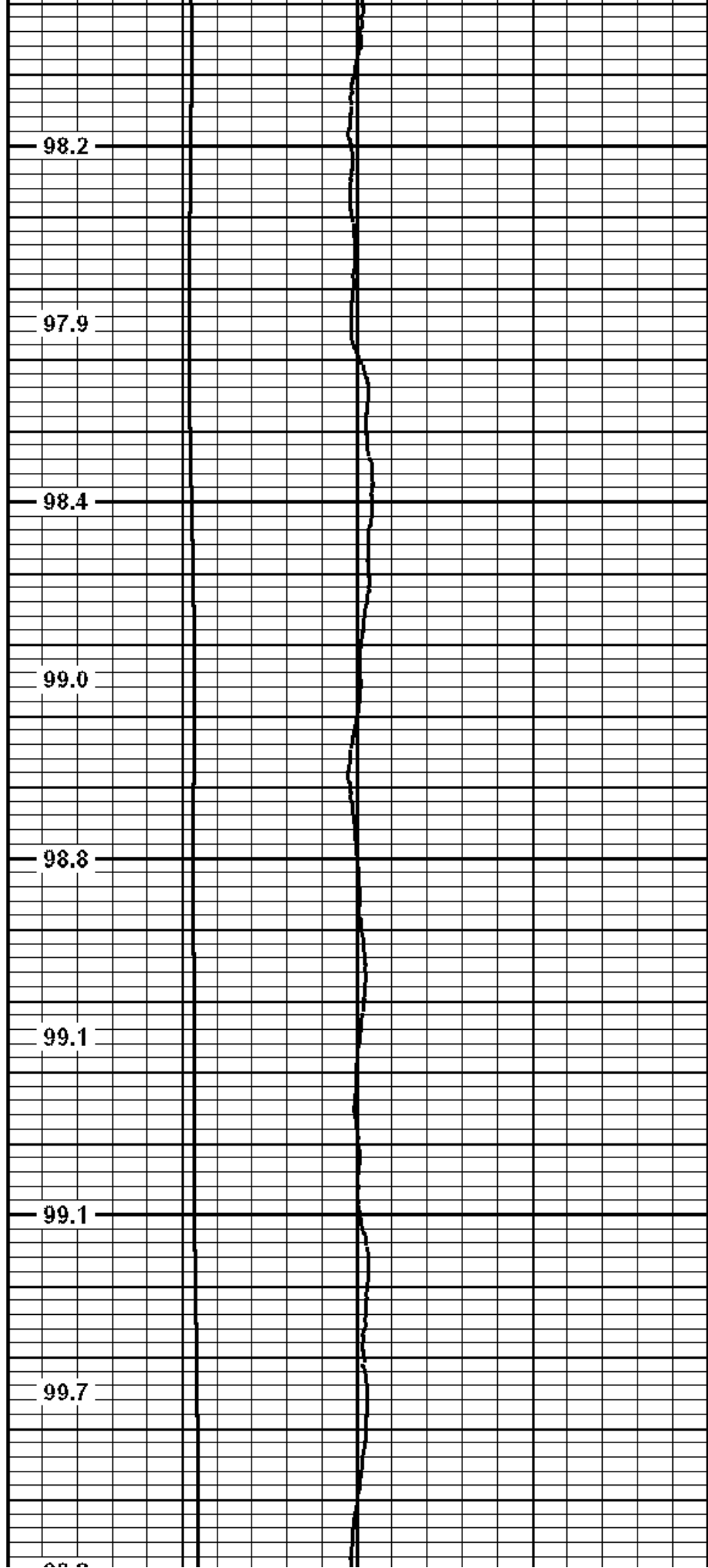
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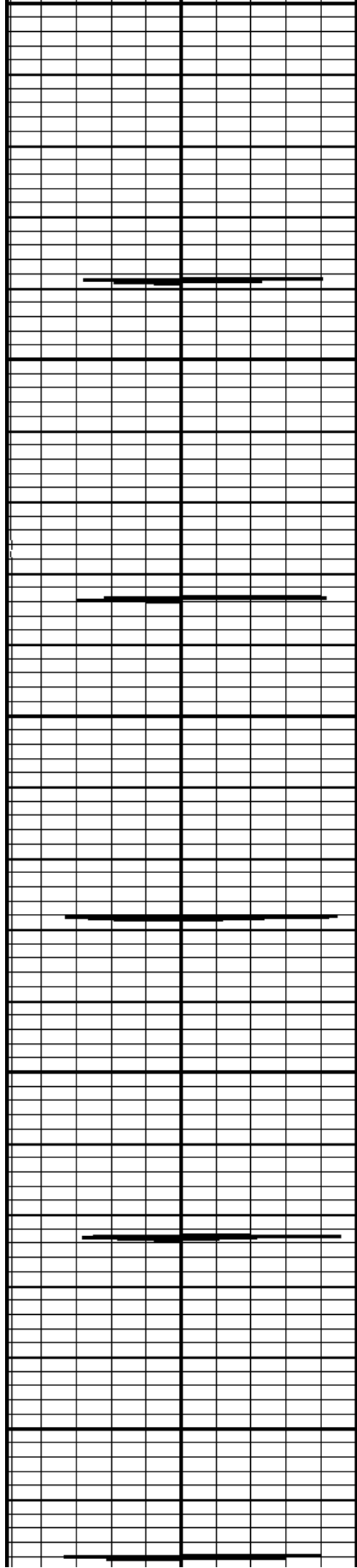
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99.1

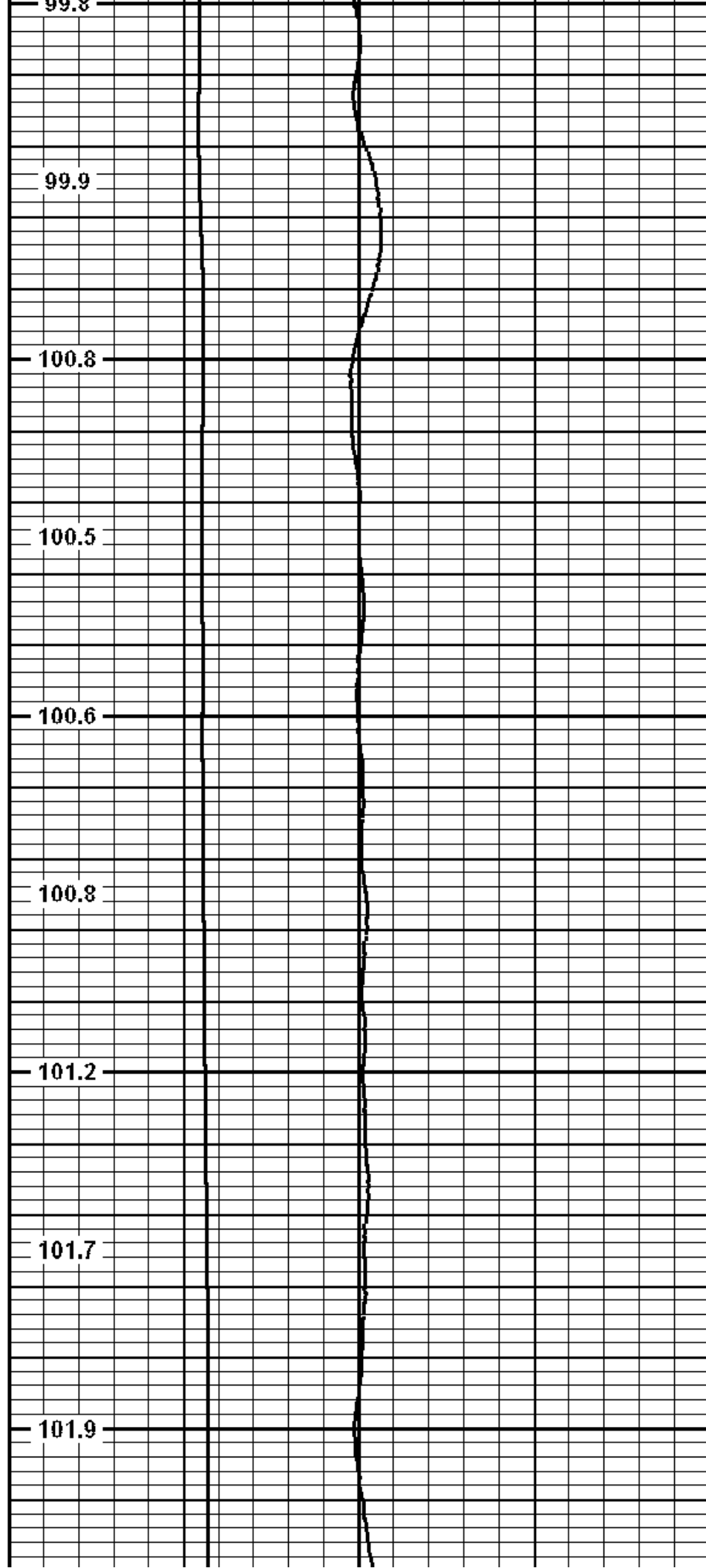
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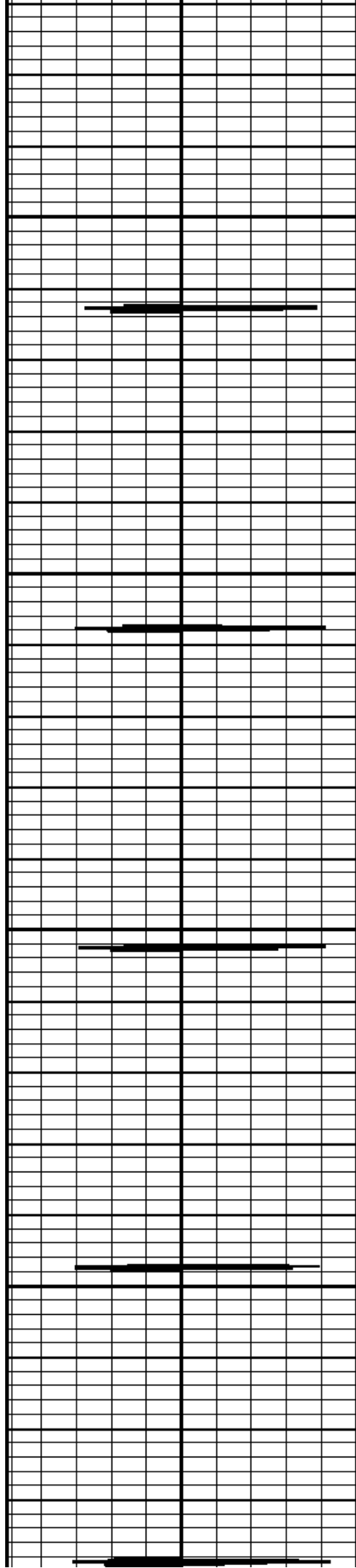
99.8





1100
1150
1200
1250
1300



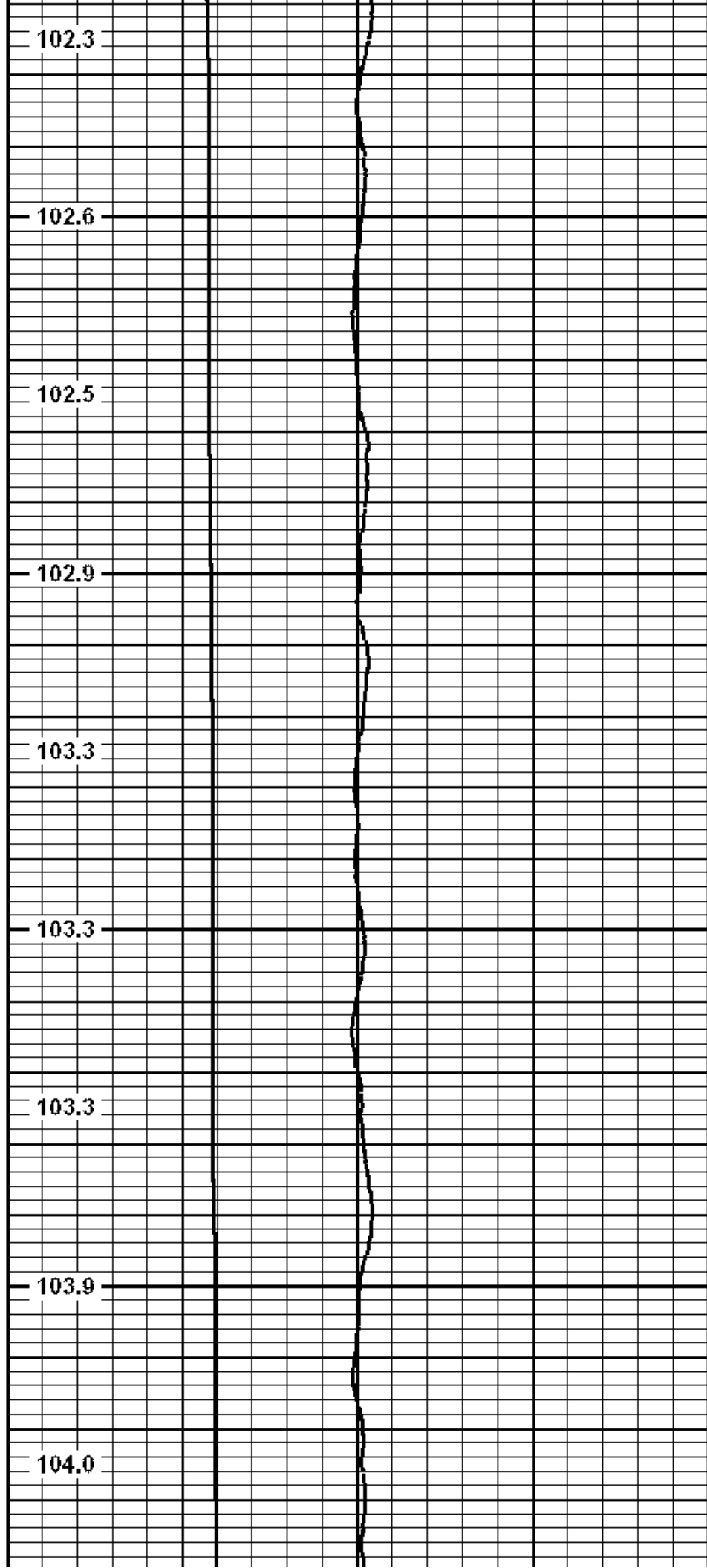


1350

1400

1450

1500



102.3

102.6

102.9

102.5

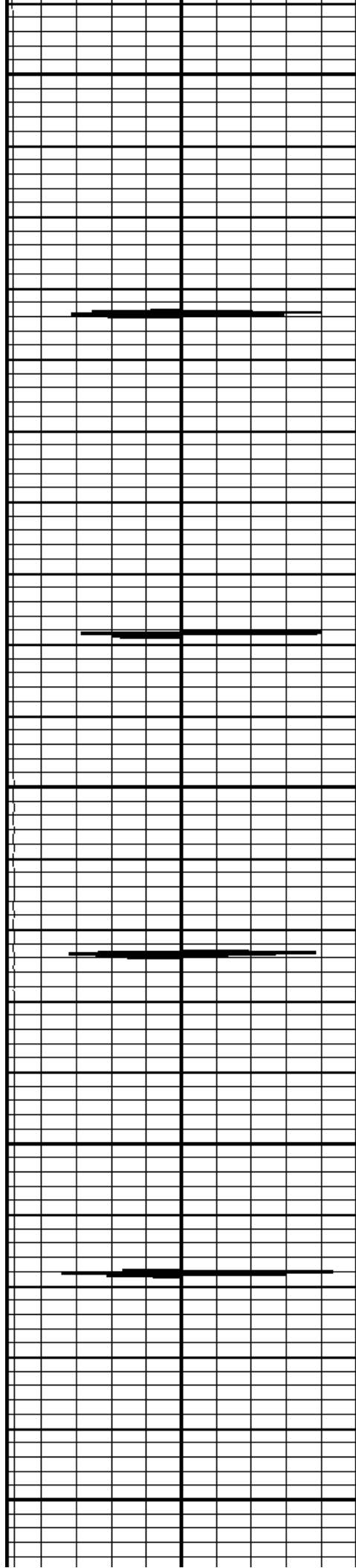
103.3

103.3

103.3

103.9

104.0



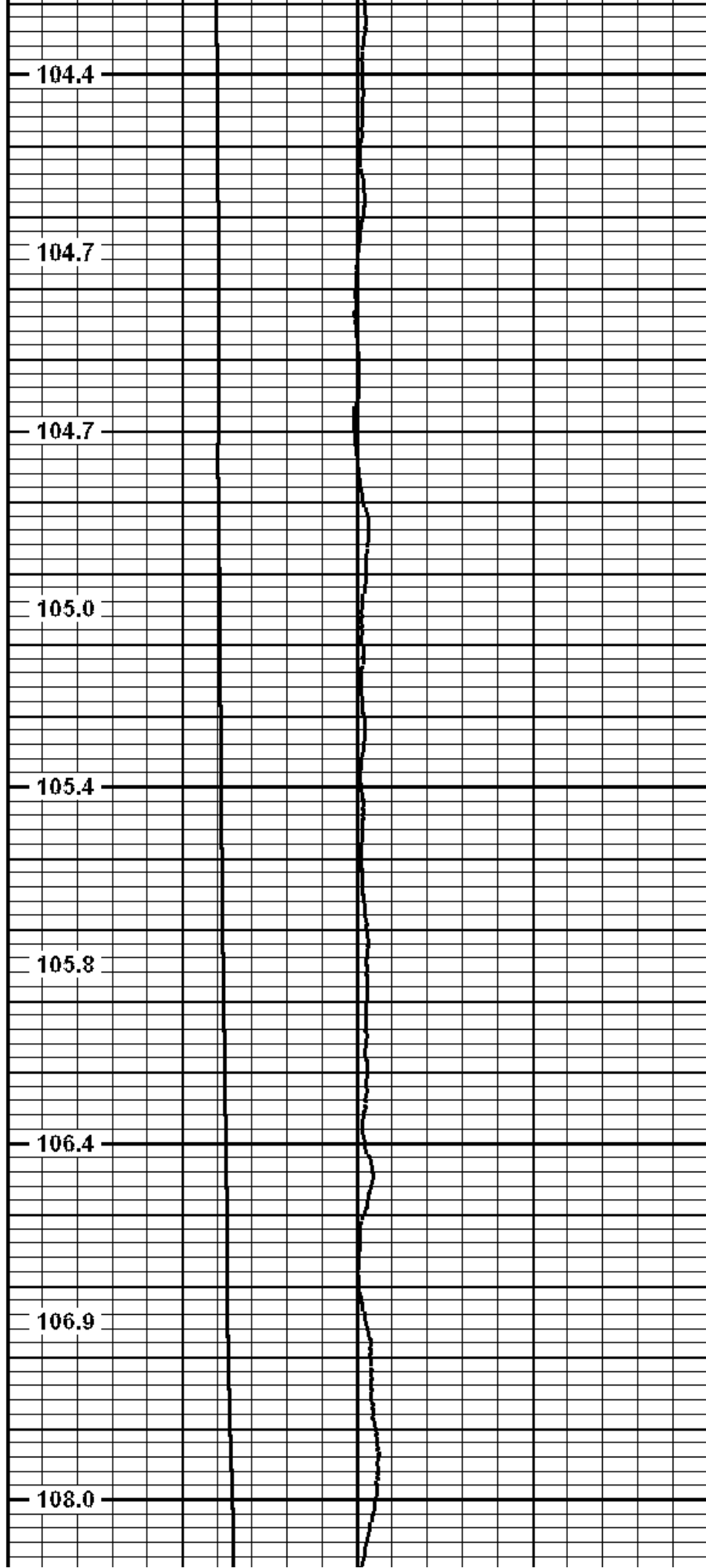
1550

1600

1650

1700

1750



104.4

104.7

104.7

105.0

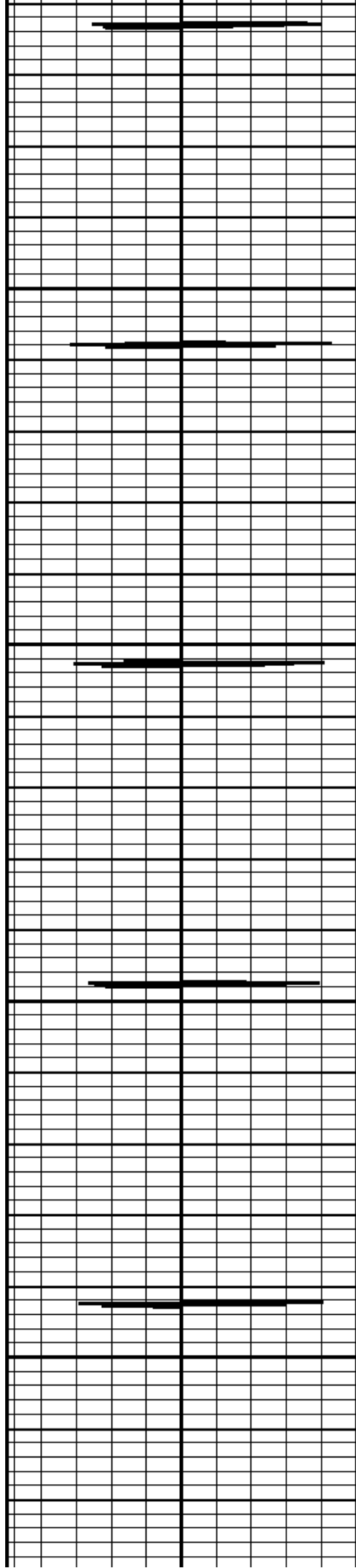
105.4

105.8

106.4

106.9

108.0



1800

1850

1900

1950

107.9

107.9

107.7

108.2

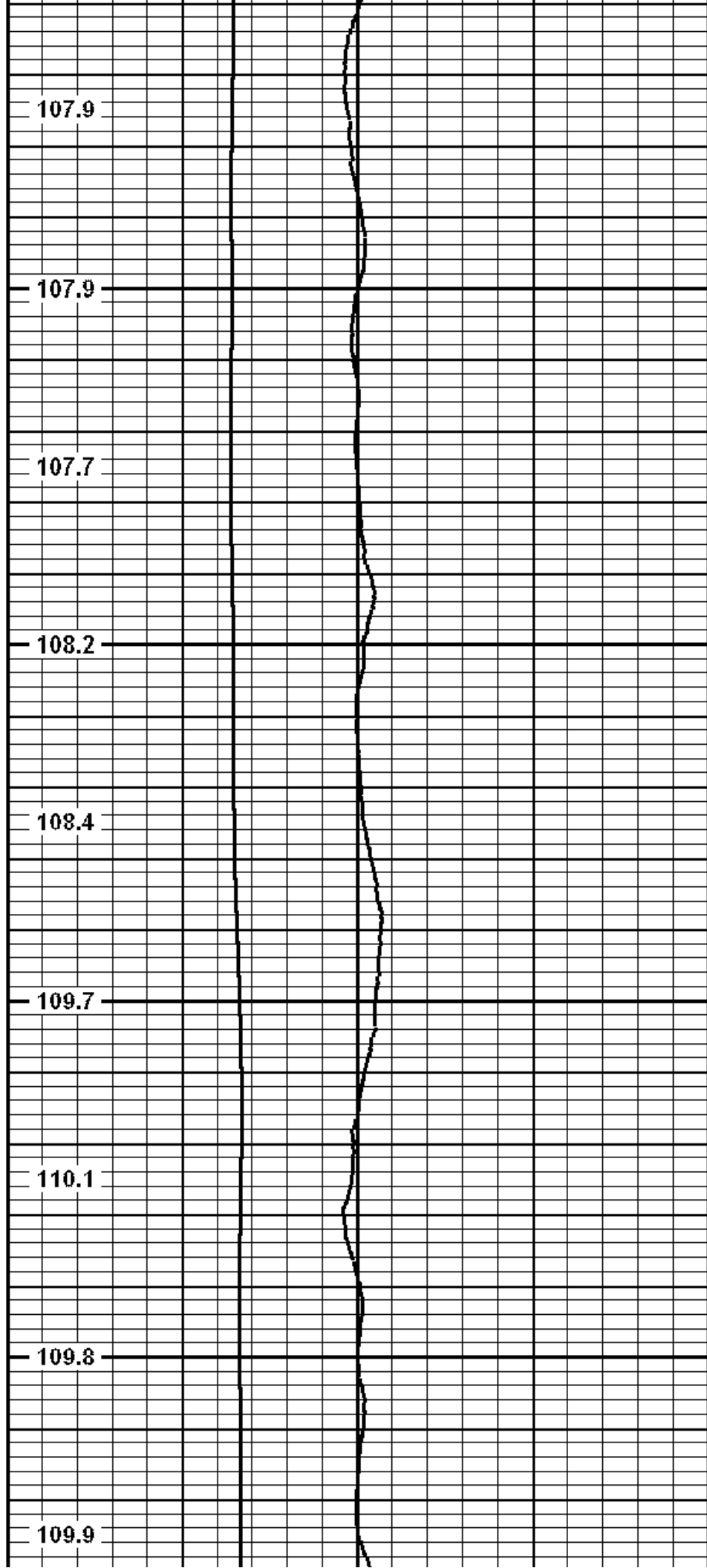
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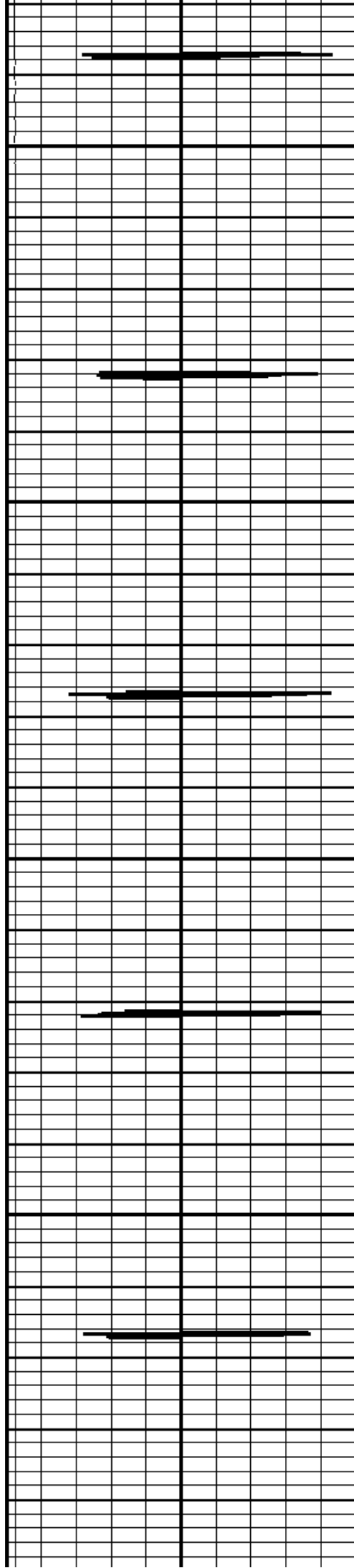
109.7

110.1

109.8

109.9





2000

2050

2100

2150

2200

110.2

110.8

111.2

111.5

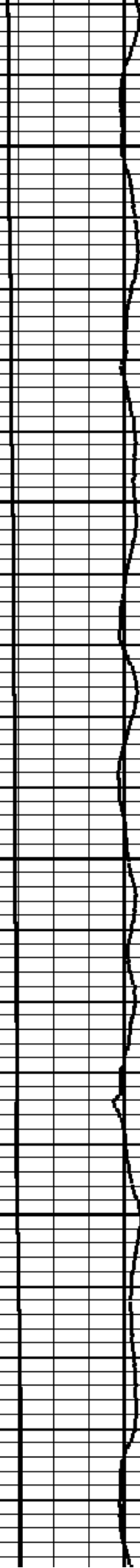
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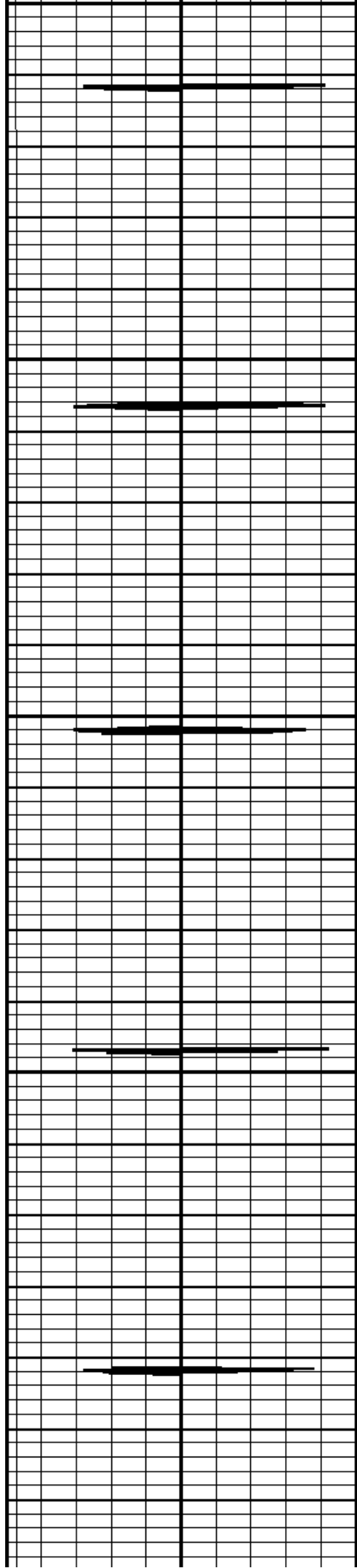
112.1

112.3

113.0

113.4





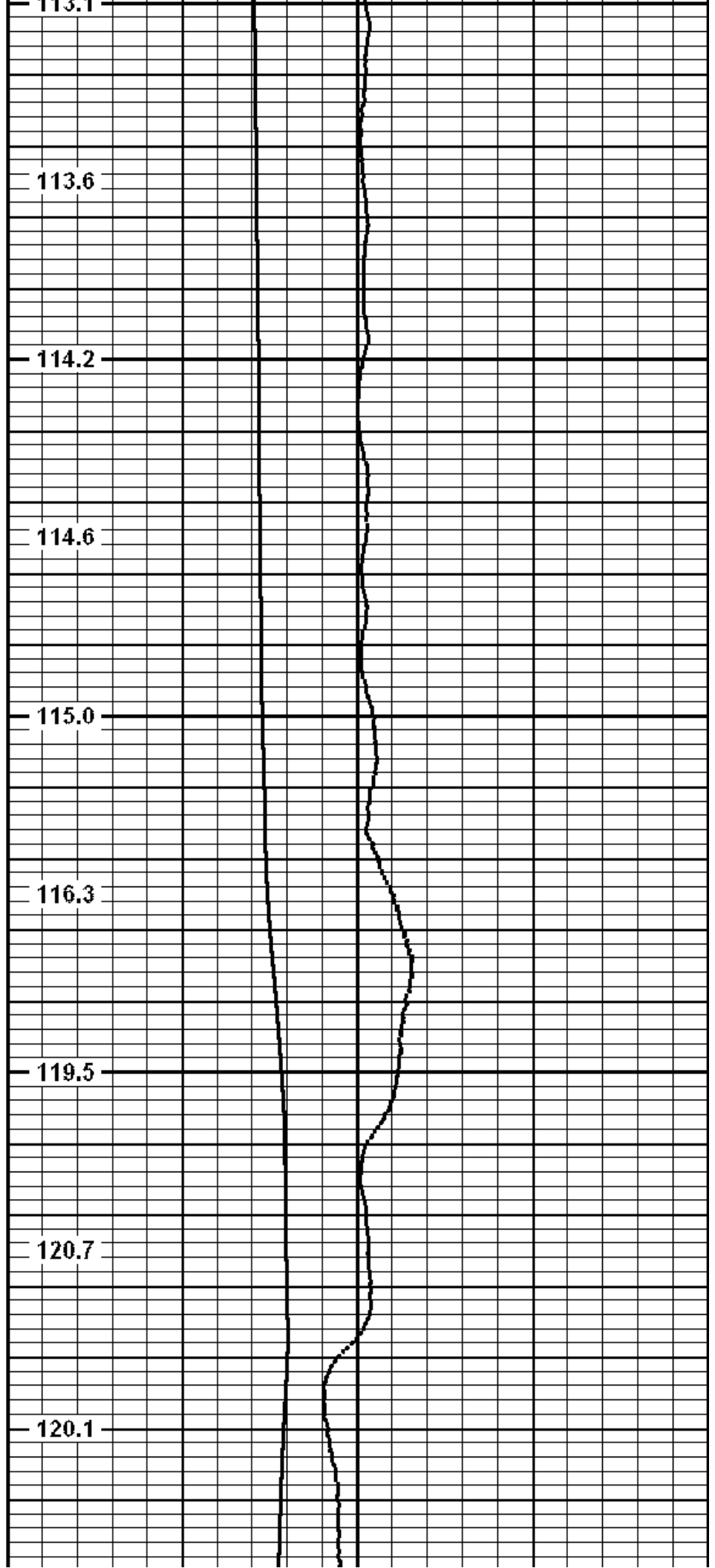
2200

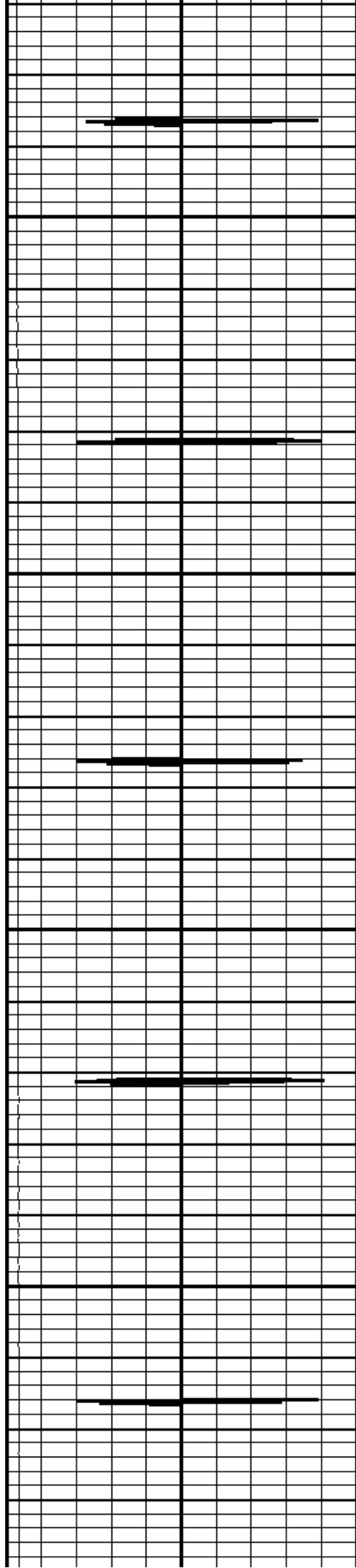
2250

2300

2350

2400





2450

2500

2550

2600

118.7

118.4

119.2

119.9

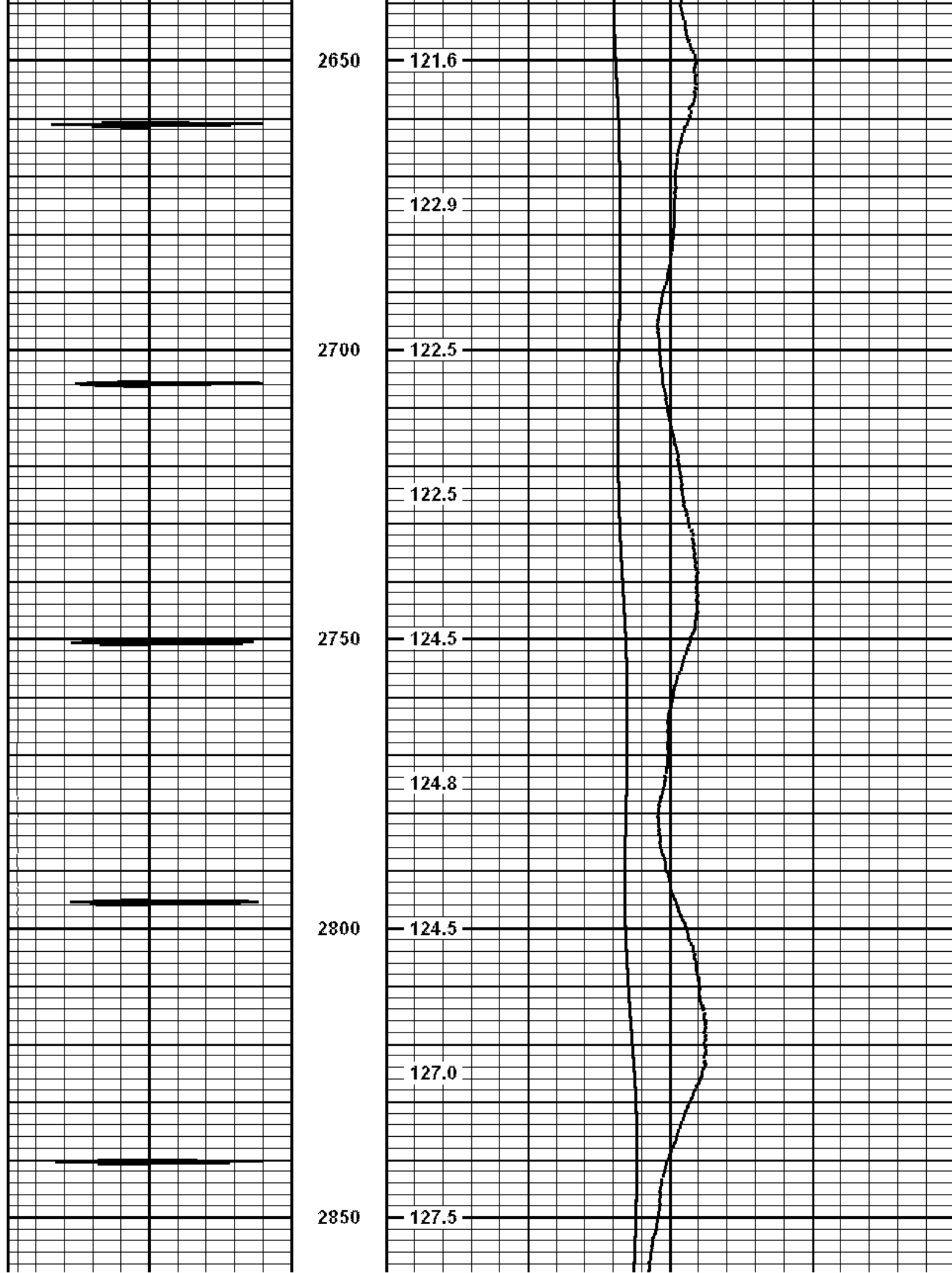
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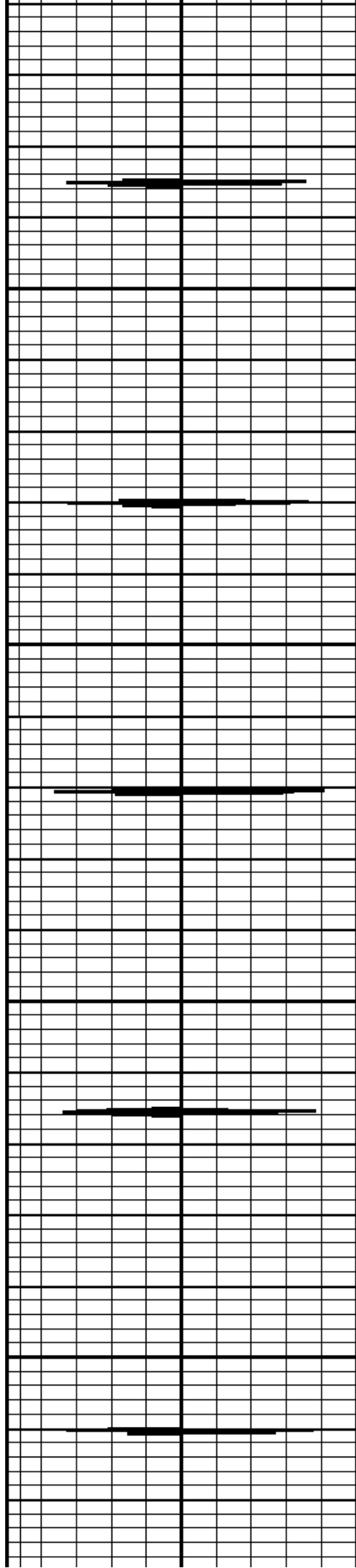
120.8

122.1

121.7

120.9





2900

2950

3000

3050

125.8

125.3

126.8

127.6

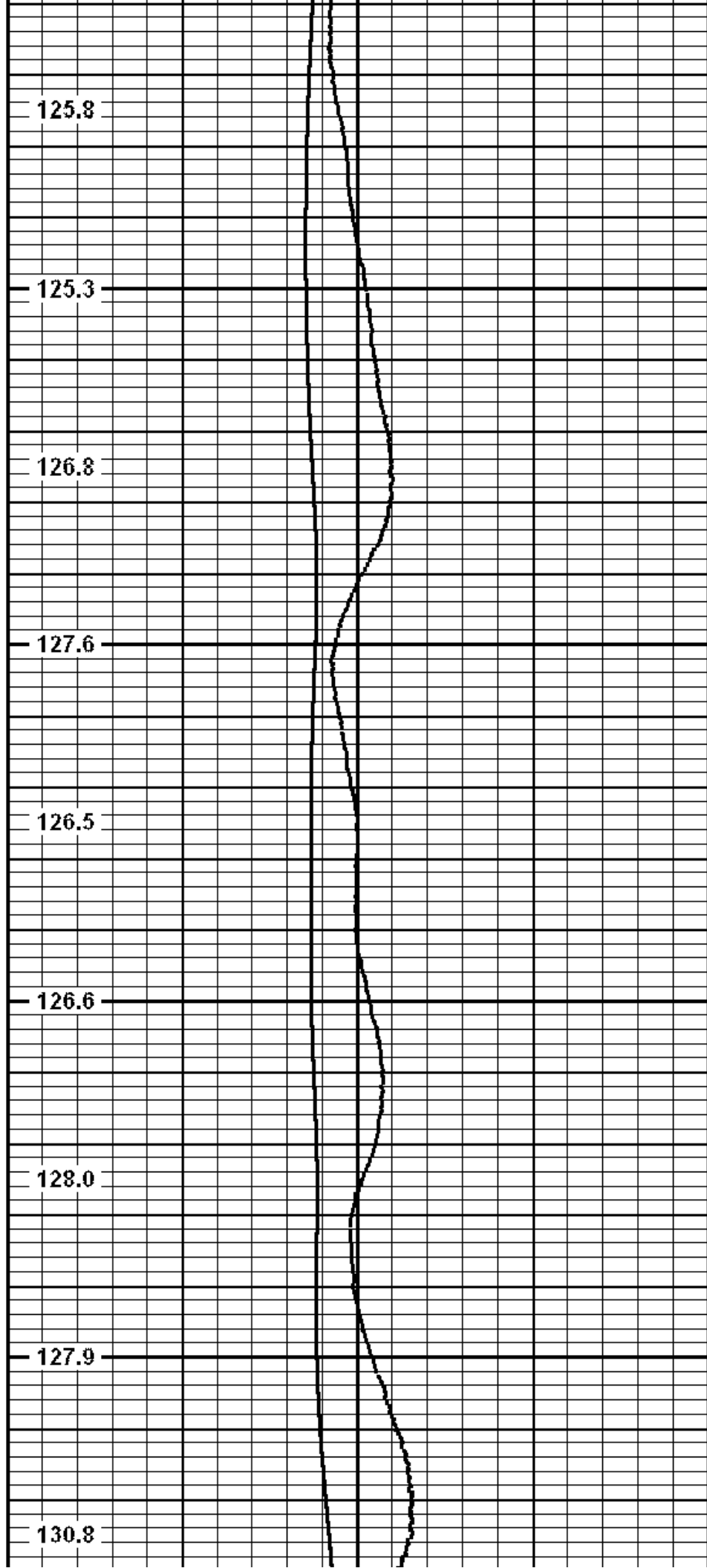
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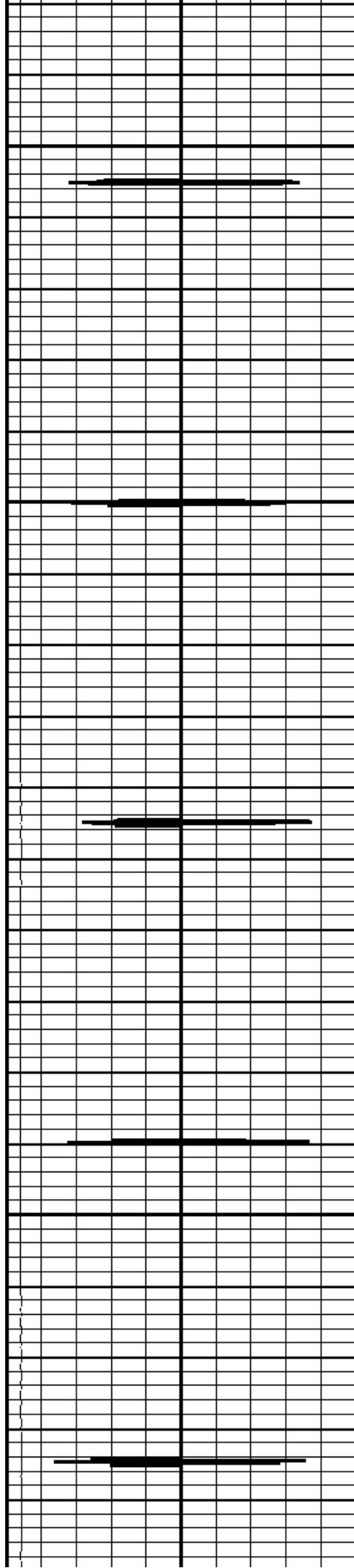
126.6

128.0

127.9

130.8





3100

3150

3200

3250

3300

132.7

132.1

132.6

133.0

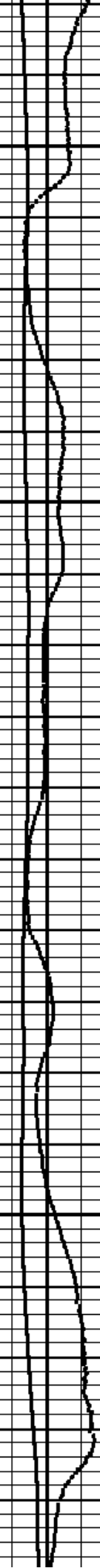
132.5

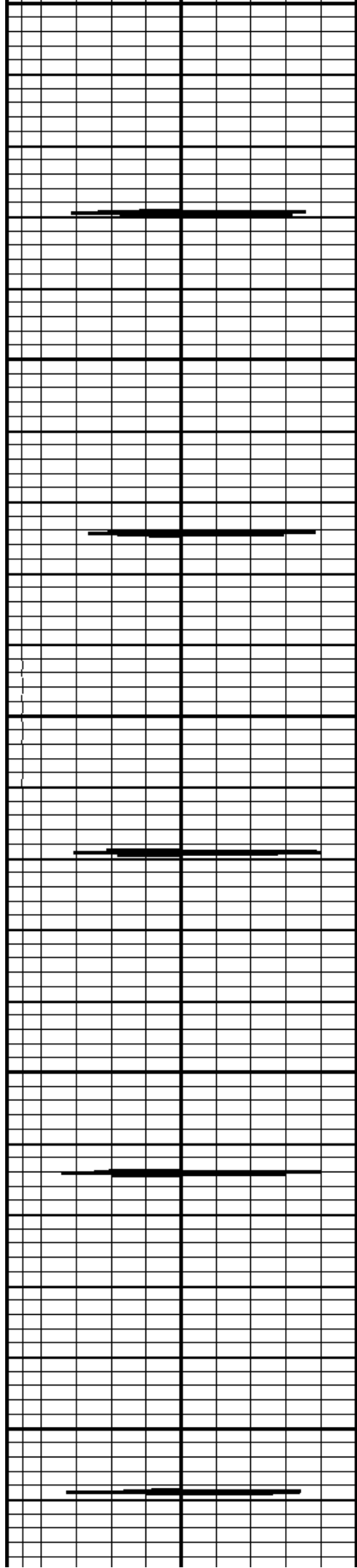
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131.6

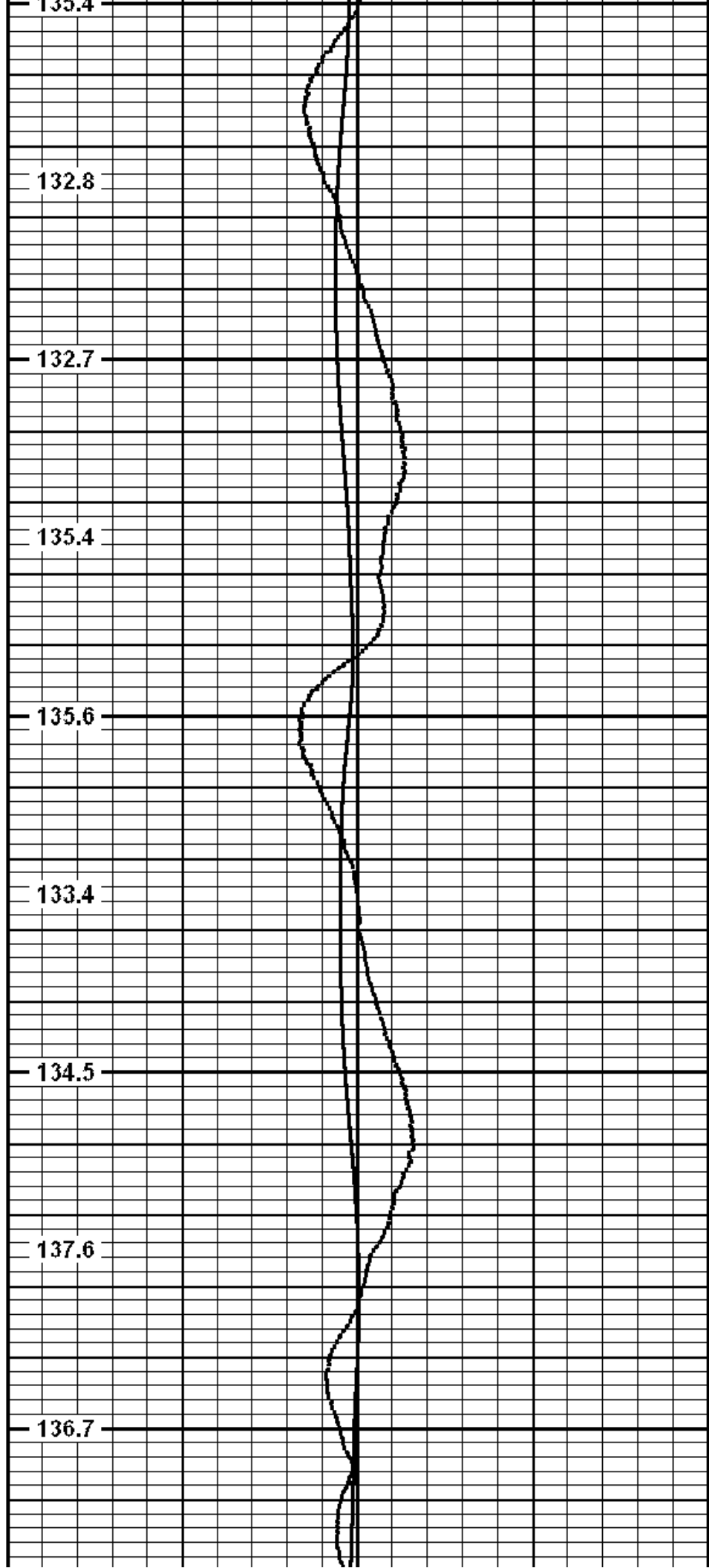
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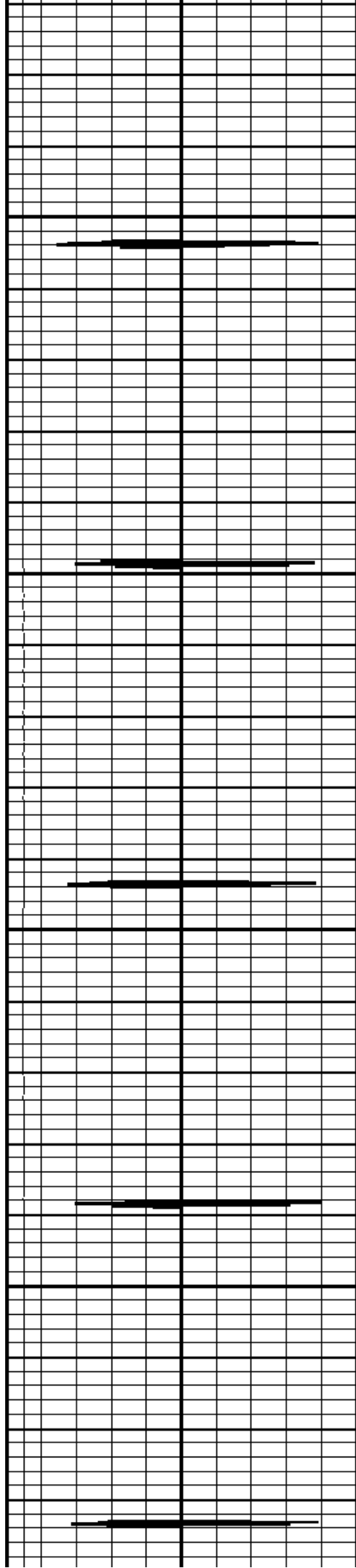
135.4





3300
3350
3400
3450
3500





3550

3600

3650

3700

135.8

138.4

136.7

134.9

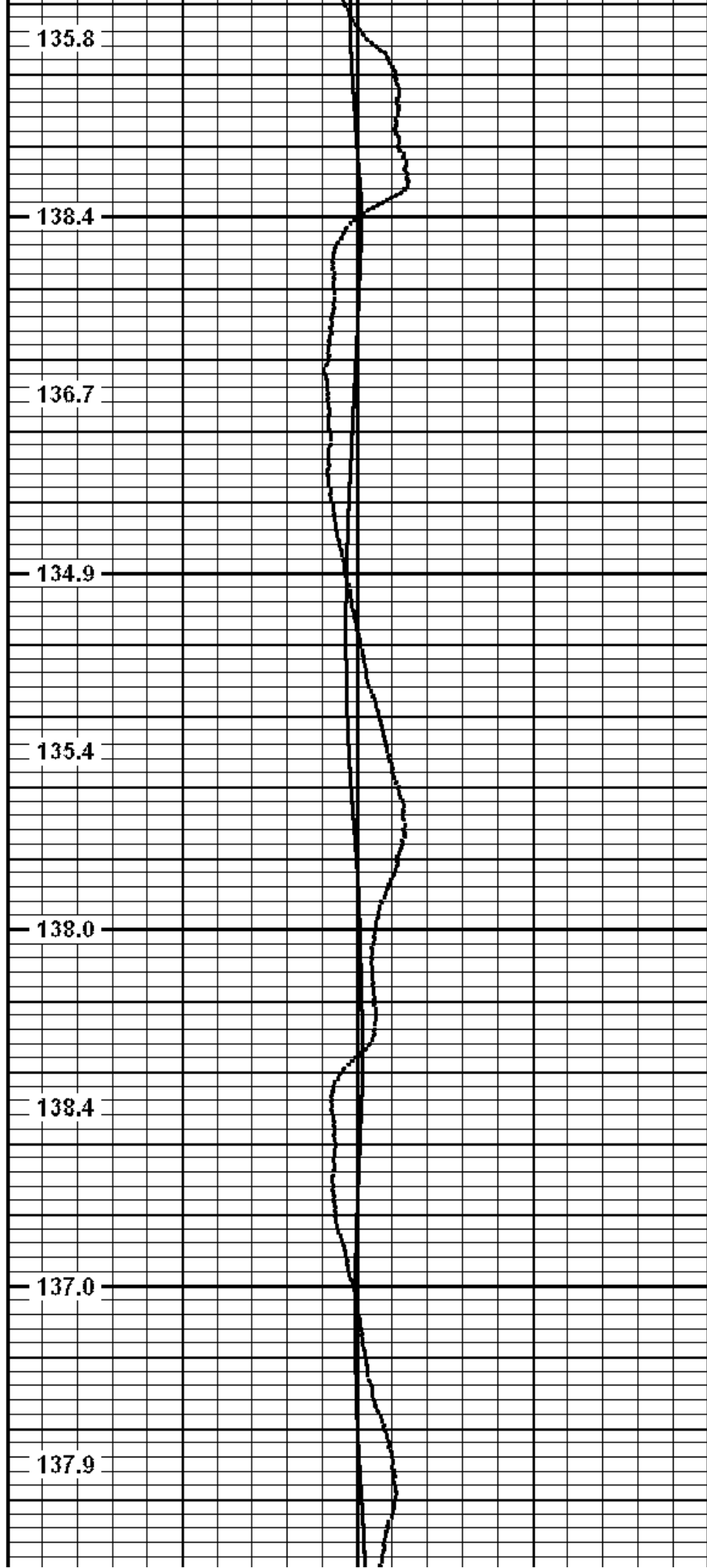
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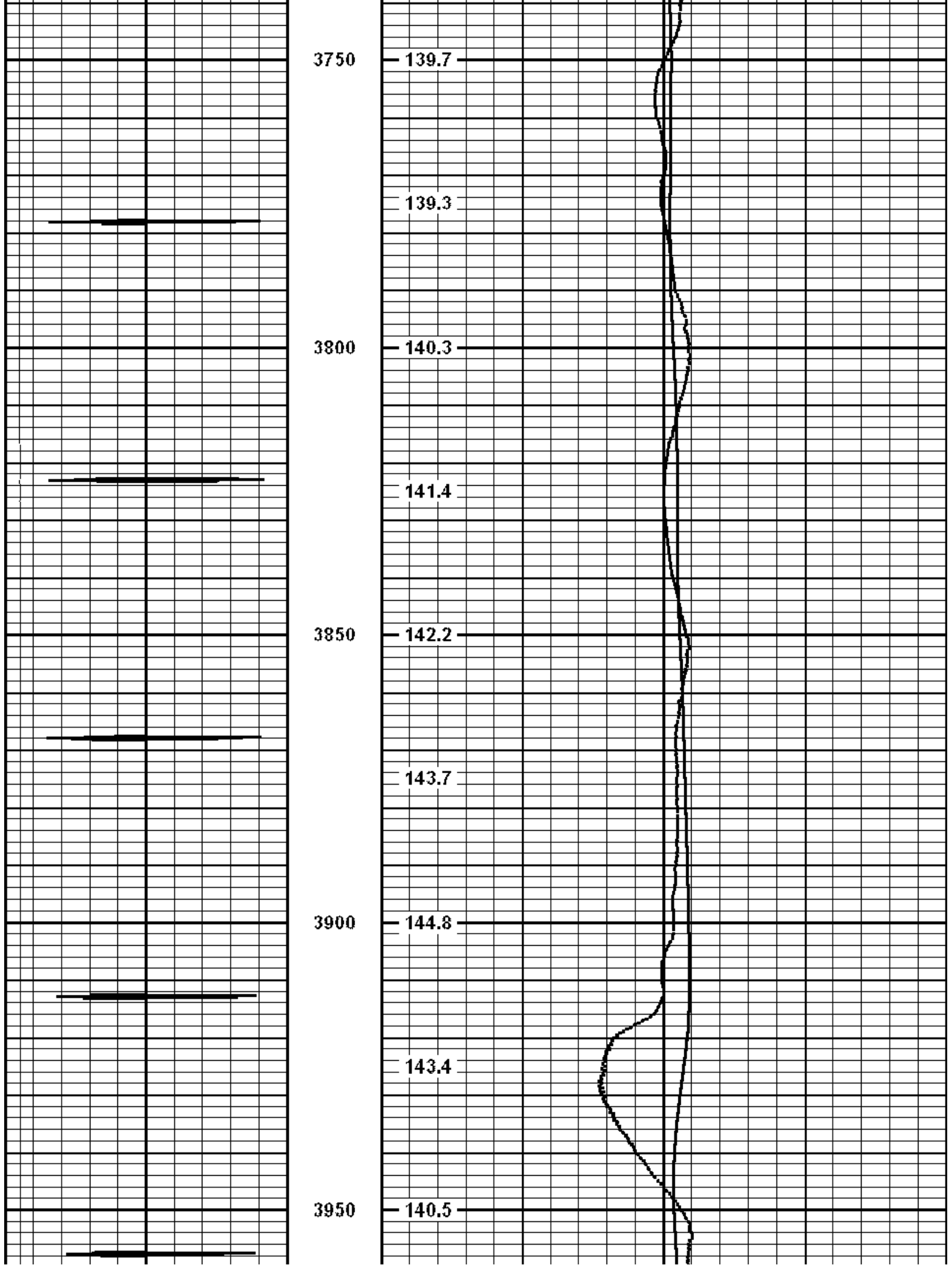
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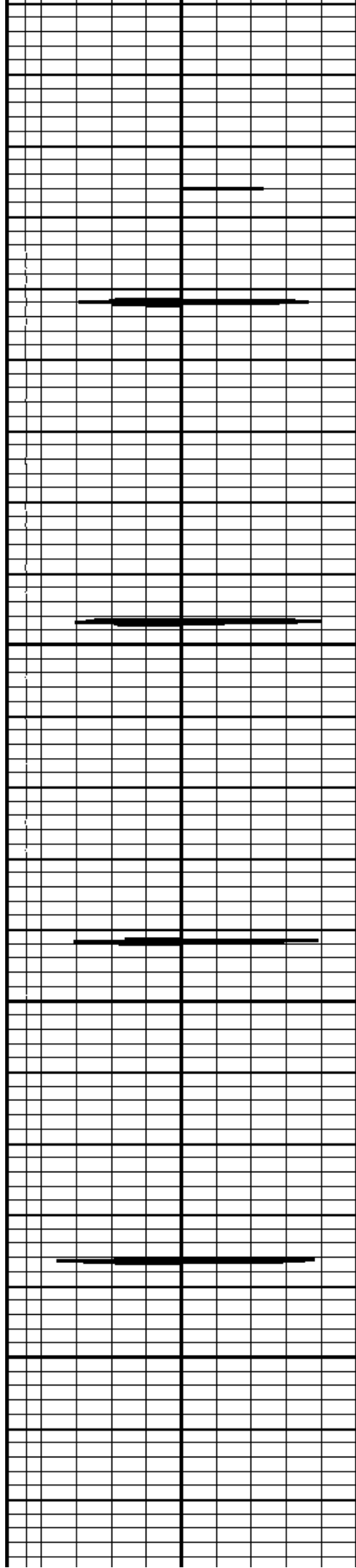
138.4

137.0

137.9







4000

4050

4100

4150

142.4

142.6

144.3

143.9

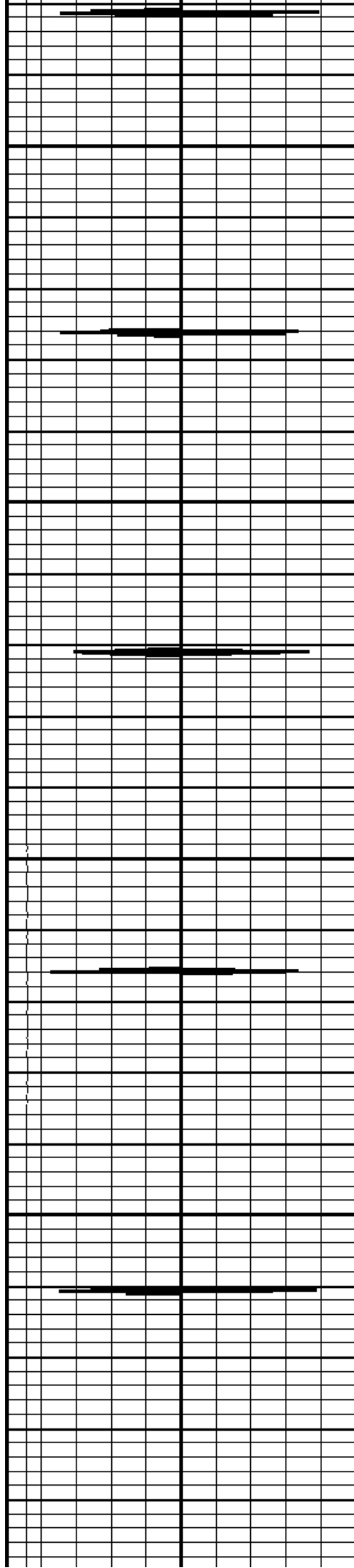
142.9

145.3

144.6

144.4

144.4



4200

4250

4300

4350

4400

143.7

143.3

146.1

146.3

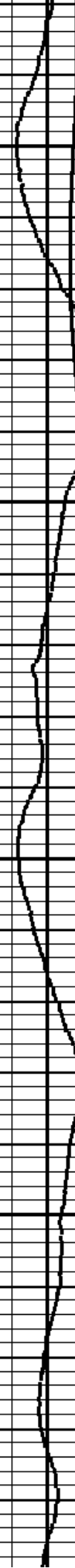
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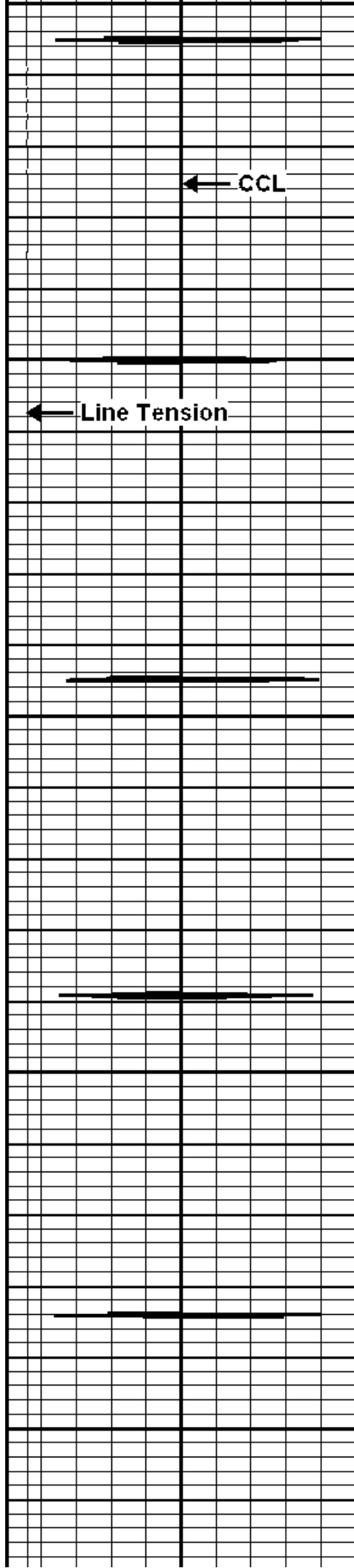
144.8

146.7

147.1

147.2





4400

← CCL

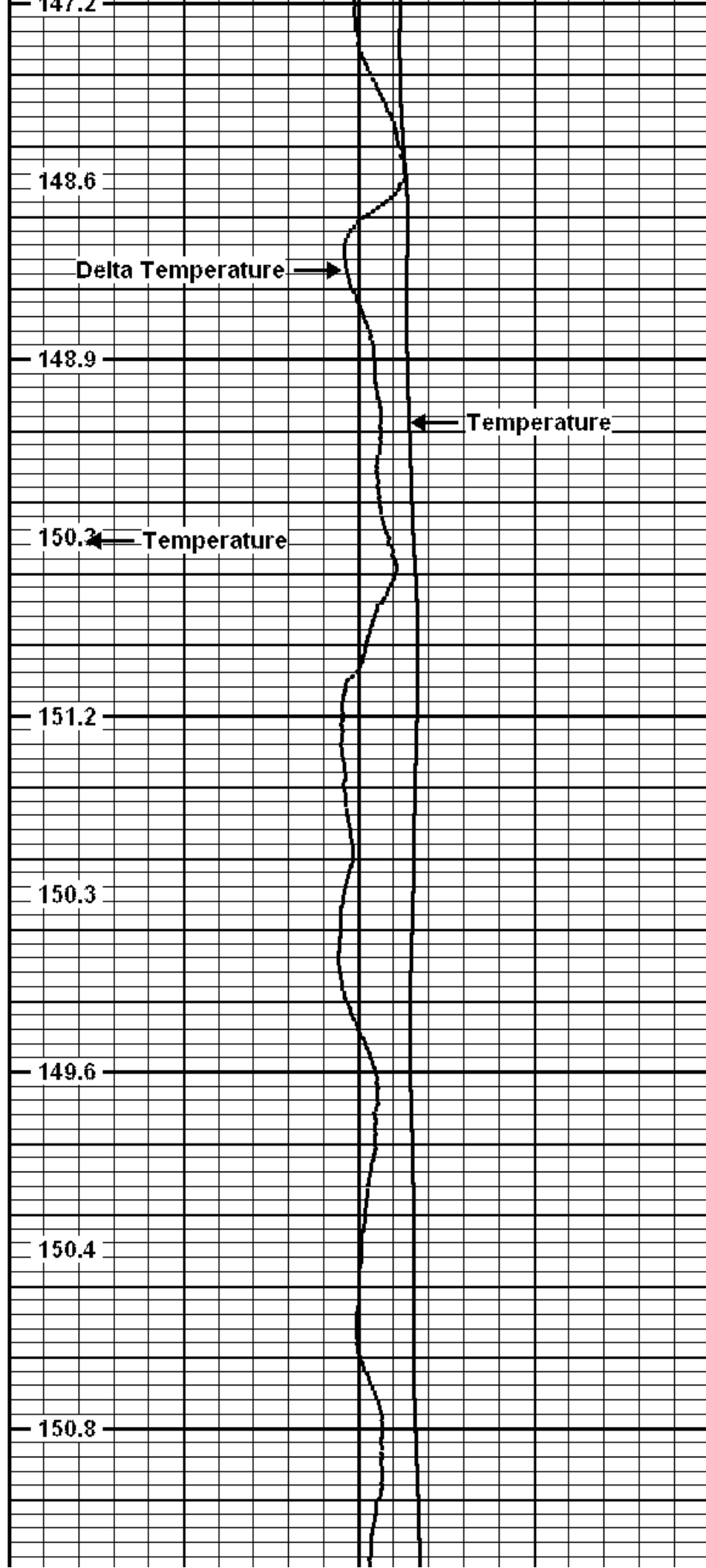
4450

← Line Tension

4500

4550

4600



147.2

Delta Temperature →

148.6

148.9

← Temperature

150.2

150.3

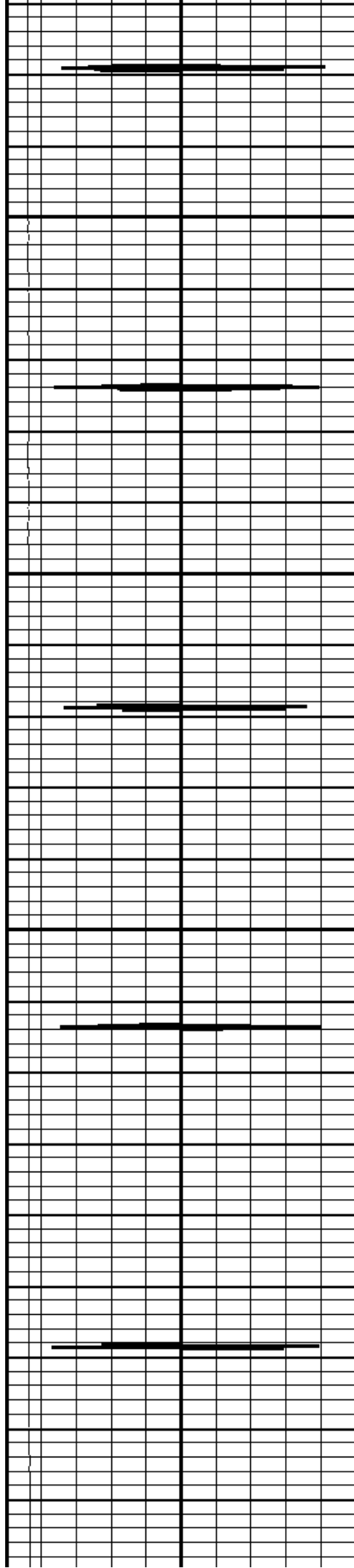
151.2

149.6

150.4

150.8

← Temperature



4650

4700

4750

4800

152.0

153.6

154.0

152.6

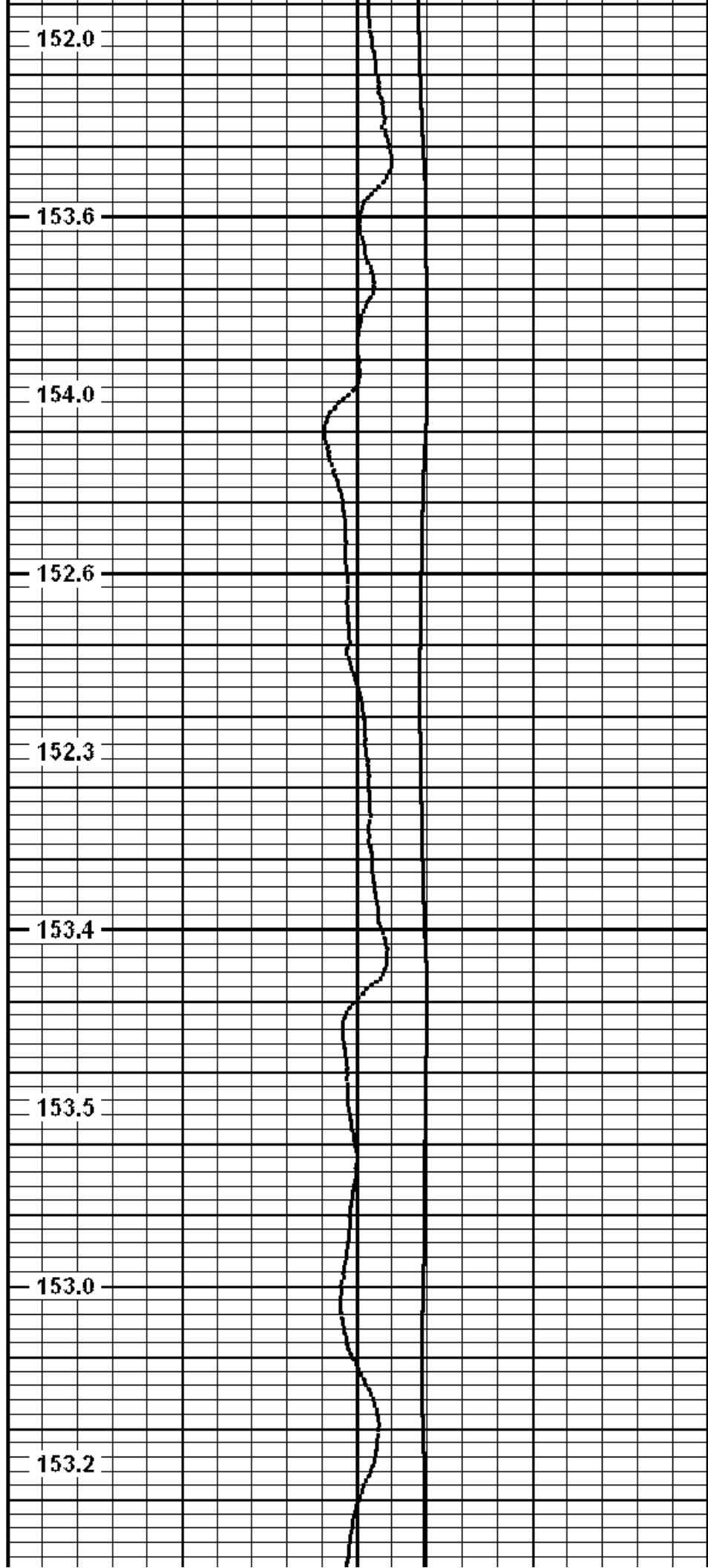
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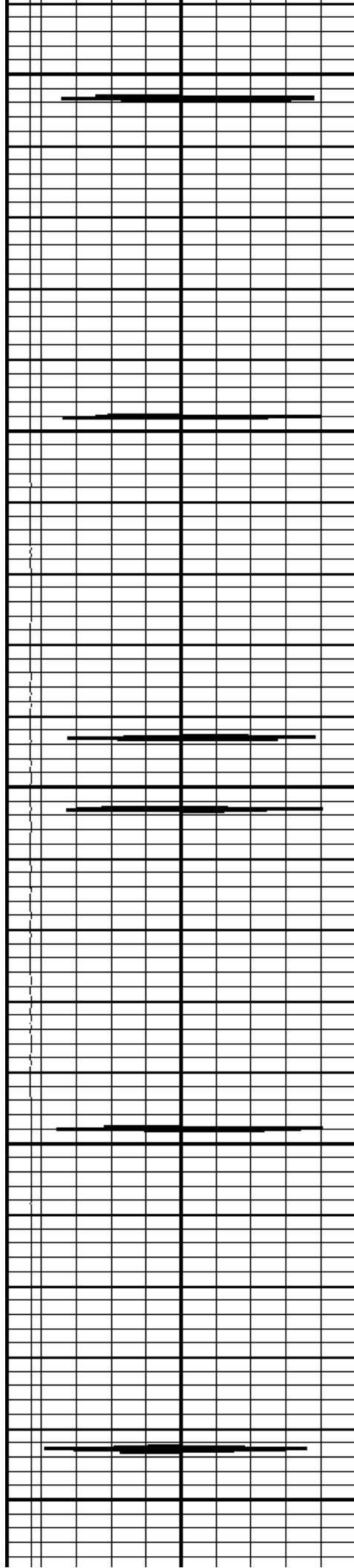
153.4

153.5

153.0

153.2





4850

4900

4950

5000

5050

152.9

153.7

153.6

155.3

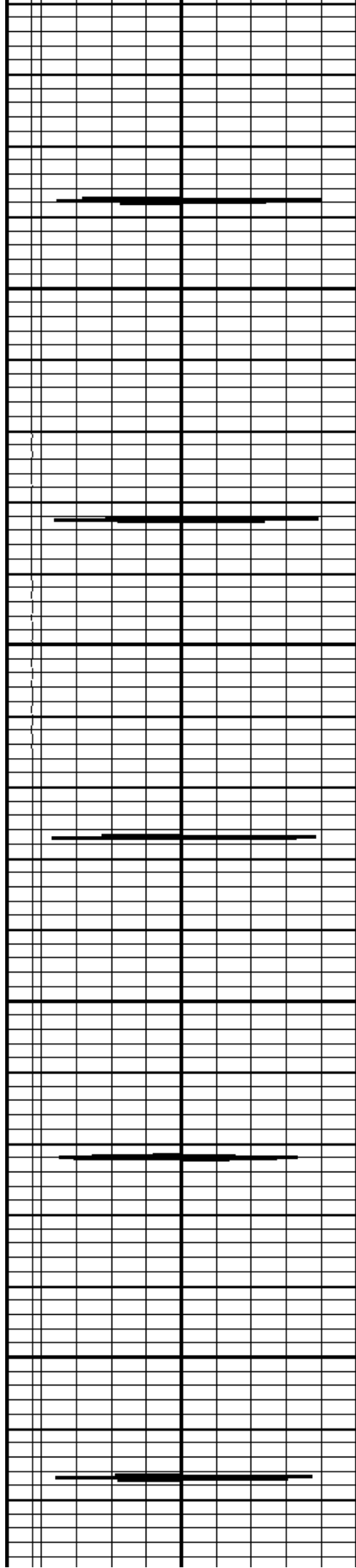
155.3

154.7

155.1

156.1

157.5

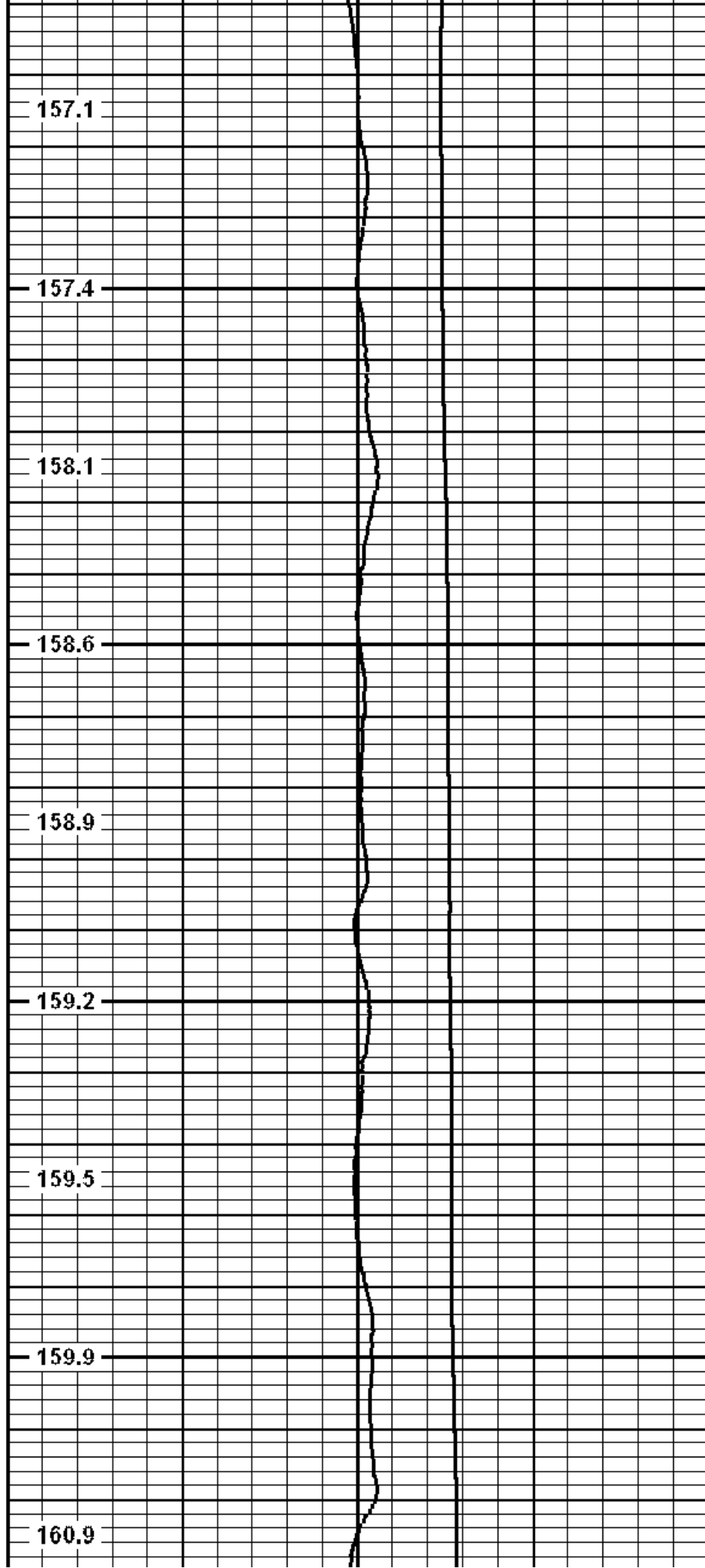


5100

5150

5200

5250



157.1

157.4

158.1

158.6

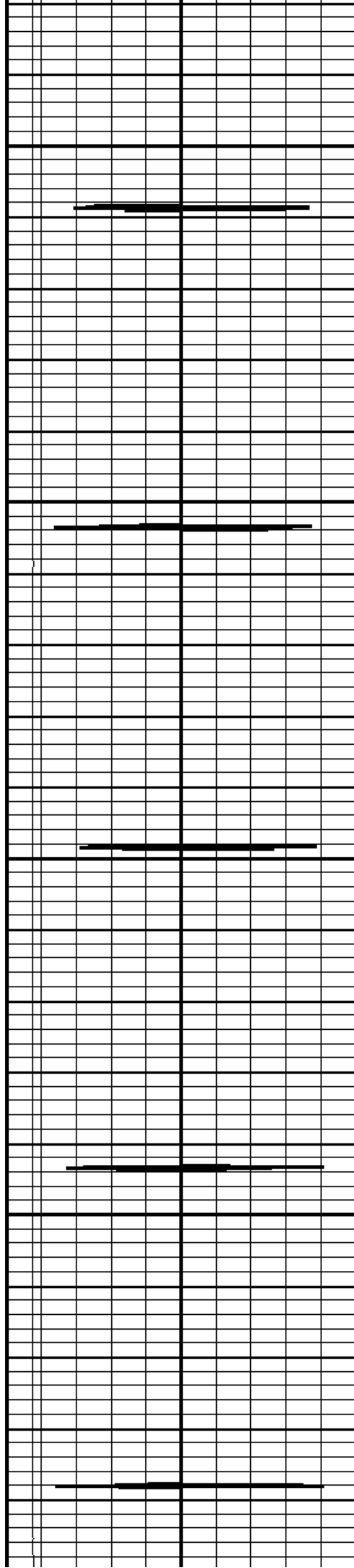
158.9

159.2

159.5

159.9

160.9



5300

5350

5400

5450

5500

160.5

161.0

160.9

161.5

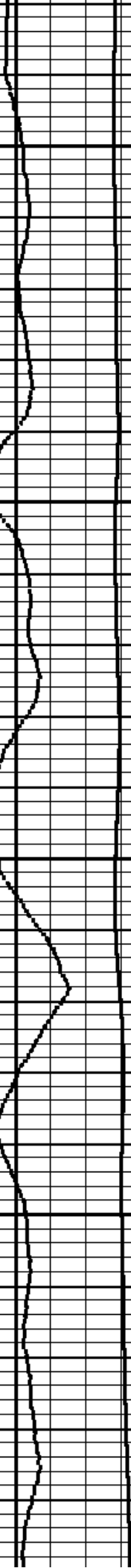
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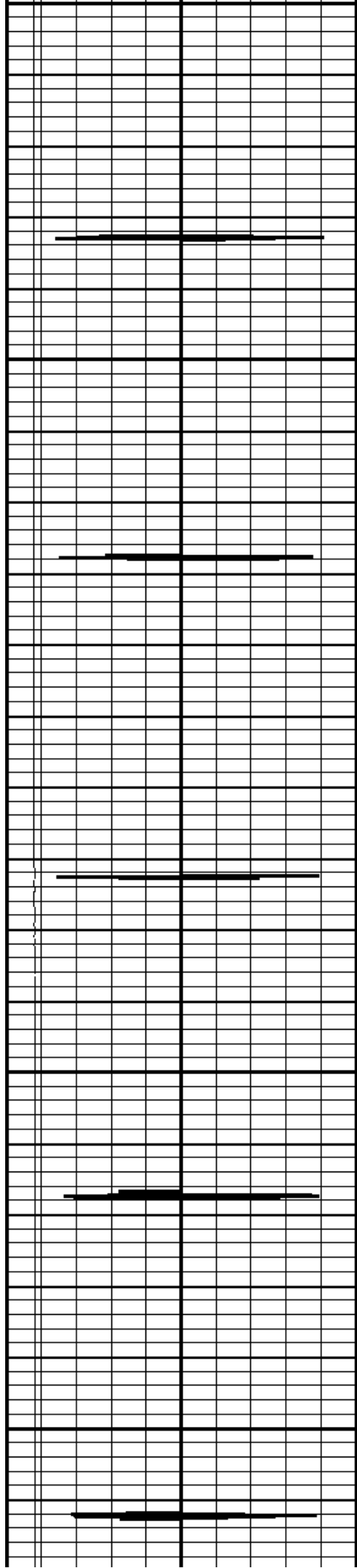
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162.3

163.1

164.0





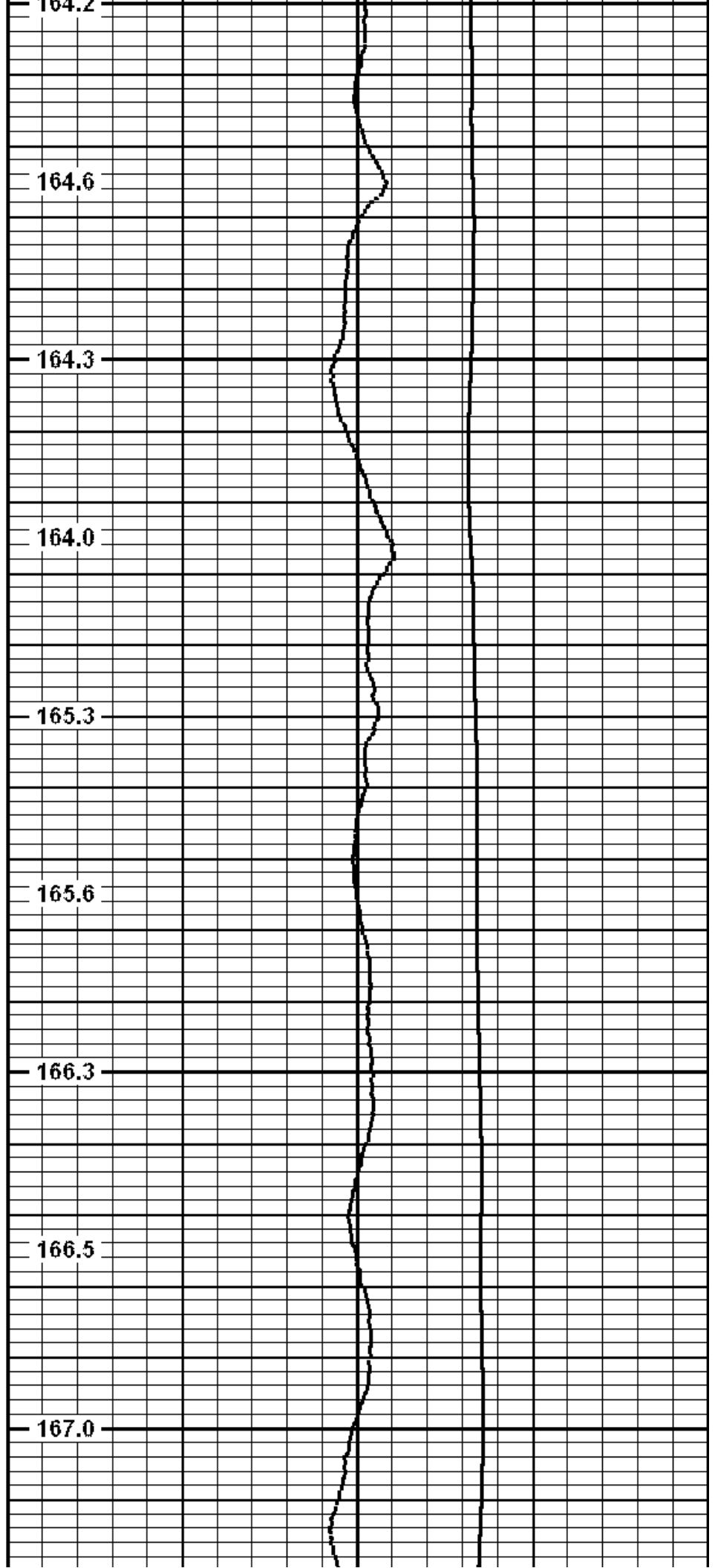
5500

5550

5600

5650

5700



164.6

164.3

164.0

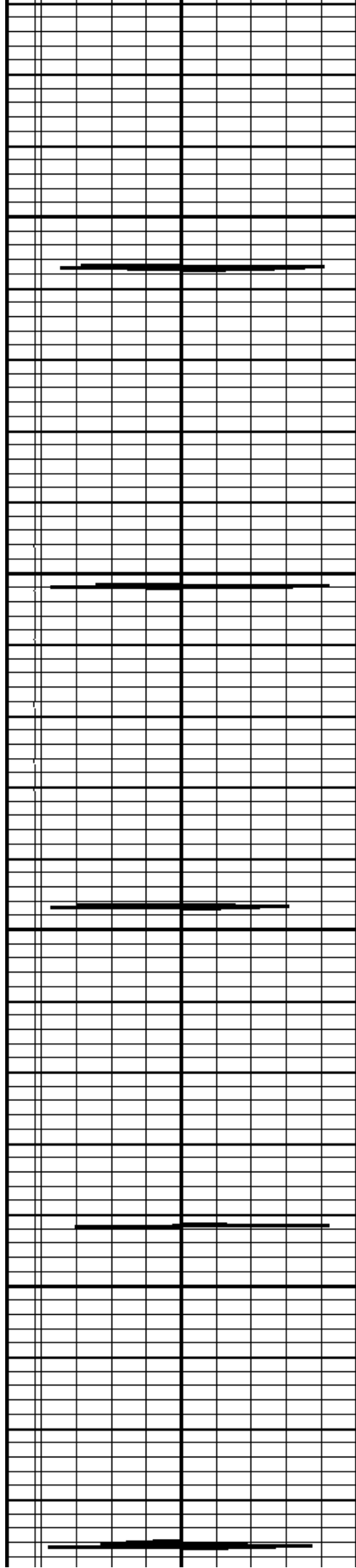
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165.6

166.3

166.5

167.0



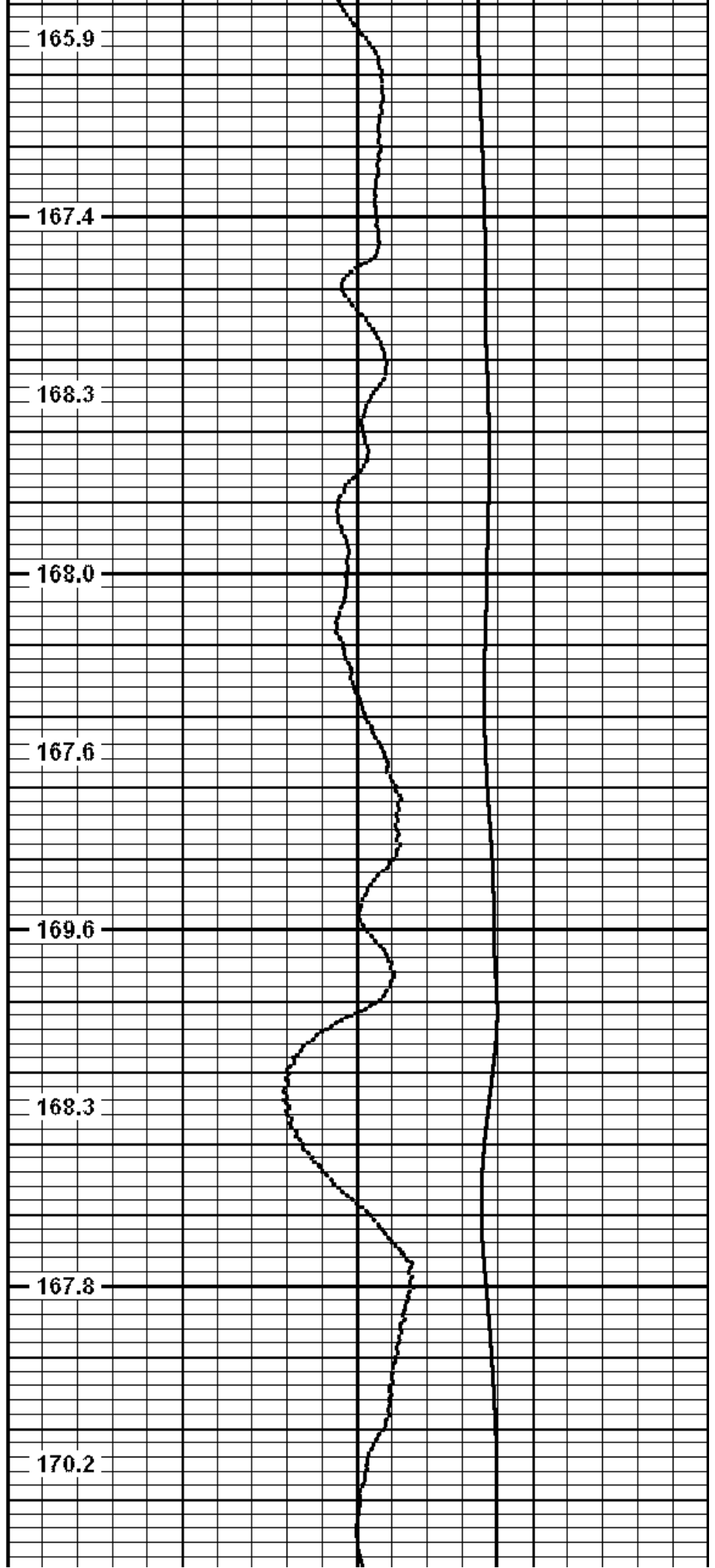
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5800

5850

5900

5950



165.9

167.4

168.3

168.0

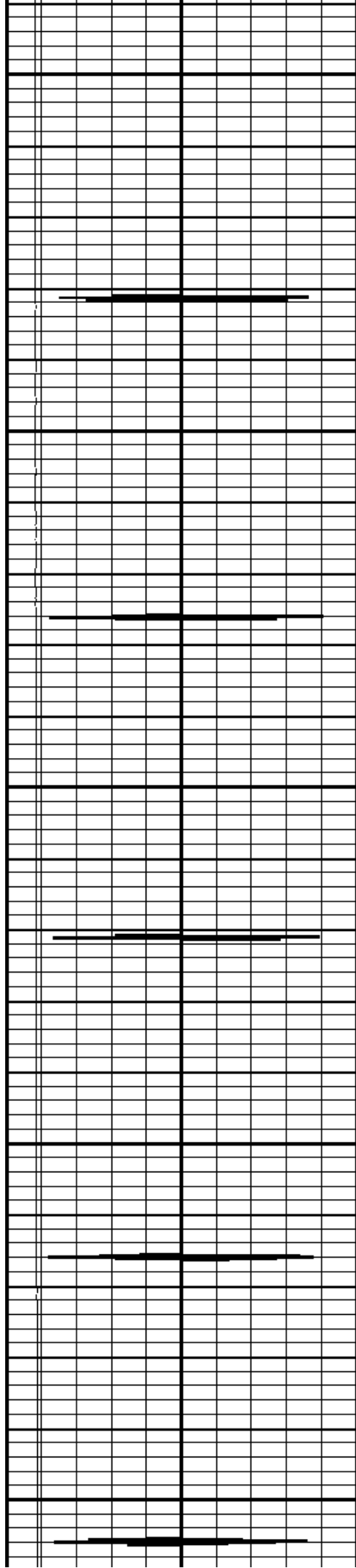
167.6

169.6

168.3

167.8

170.2



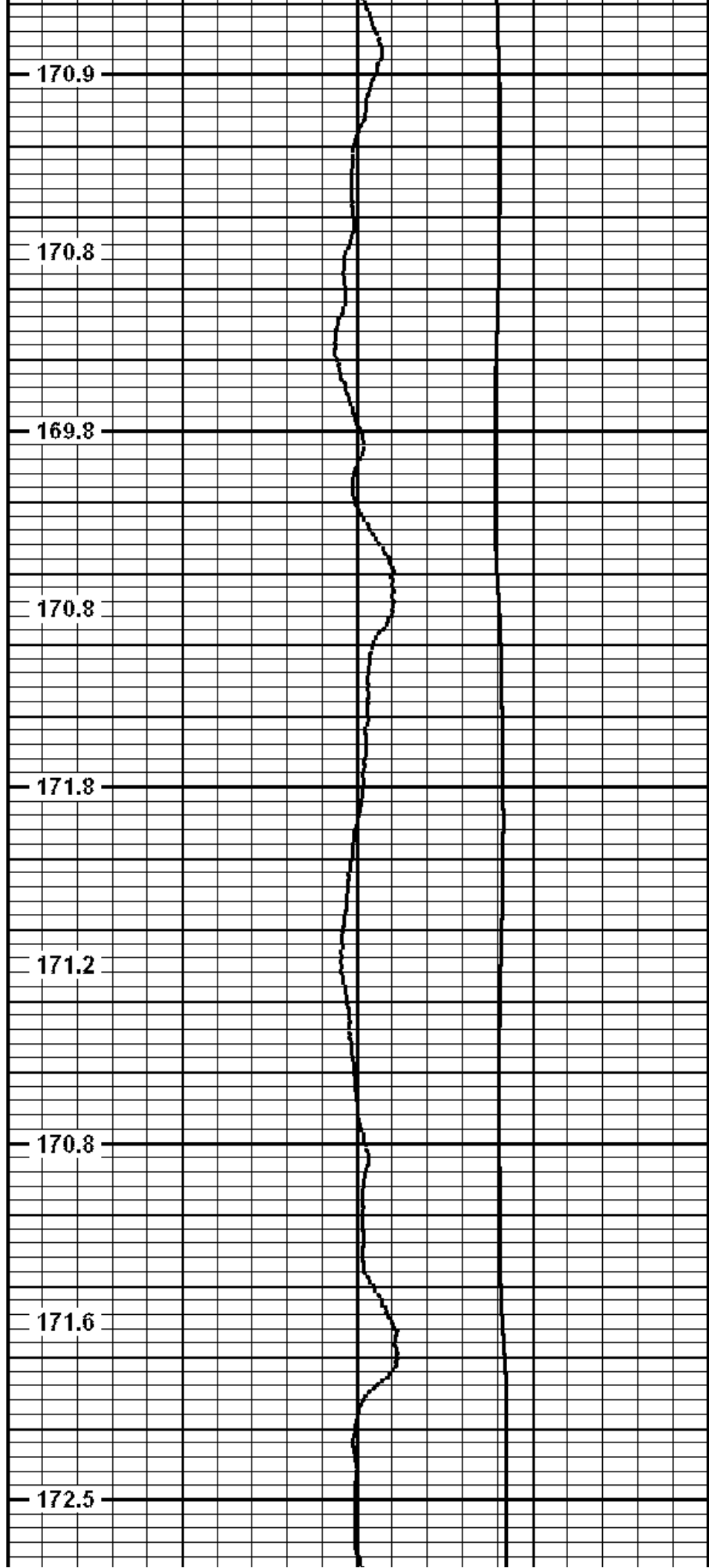
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6000

6050

6100

6150



170.9

170.8

169.8

170.8

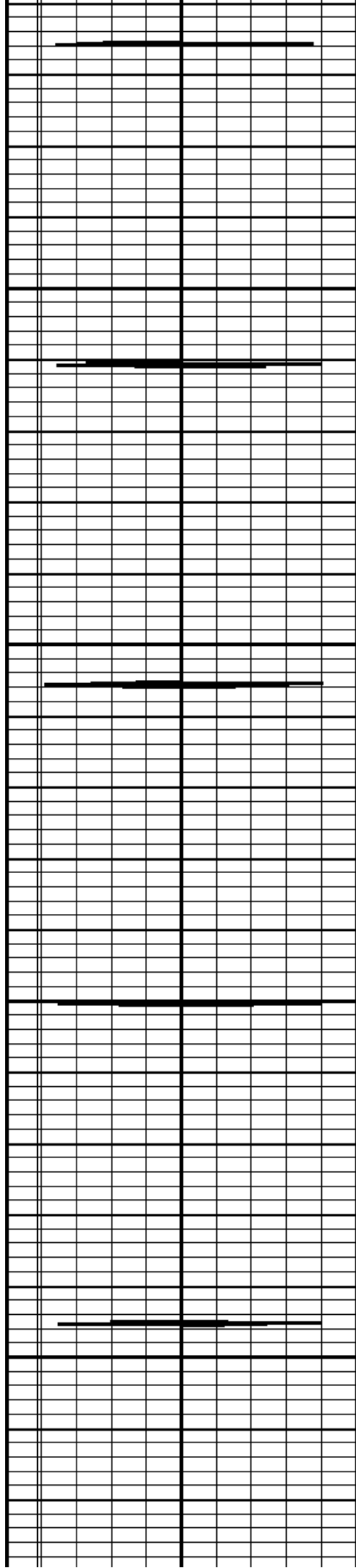
171.8

171.2

170.8

171.6

172.5



6200

6250

6300

6350

172.9

173.3

172.7

173.0

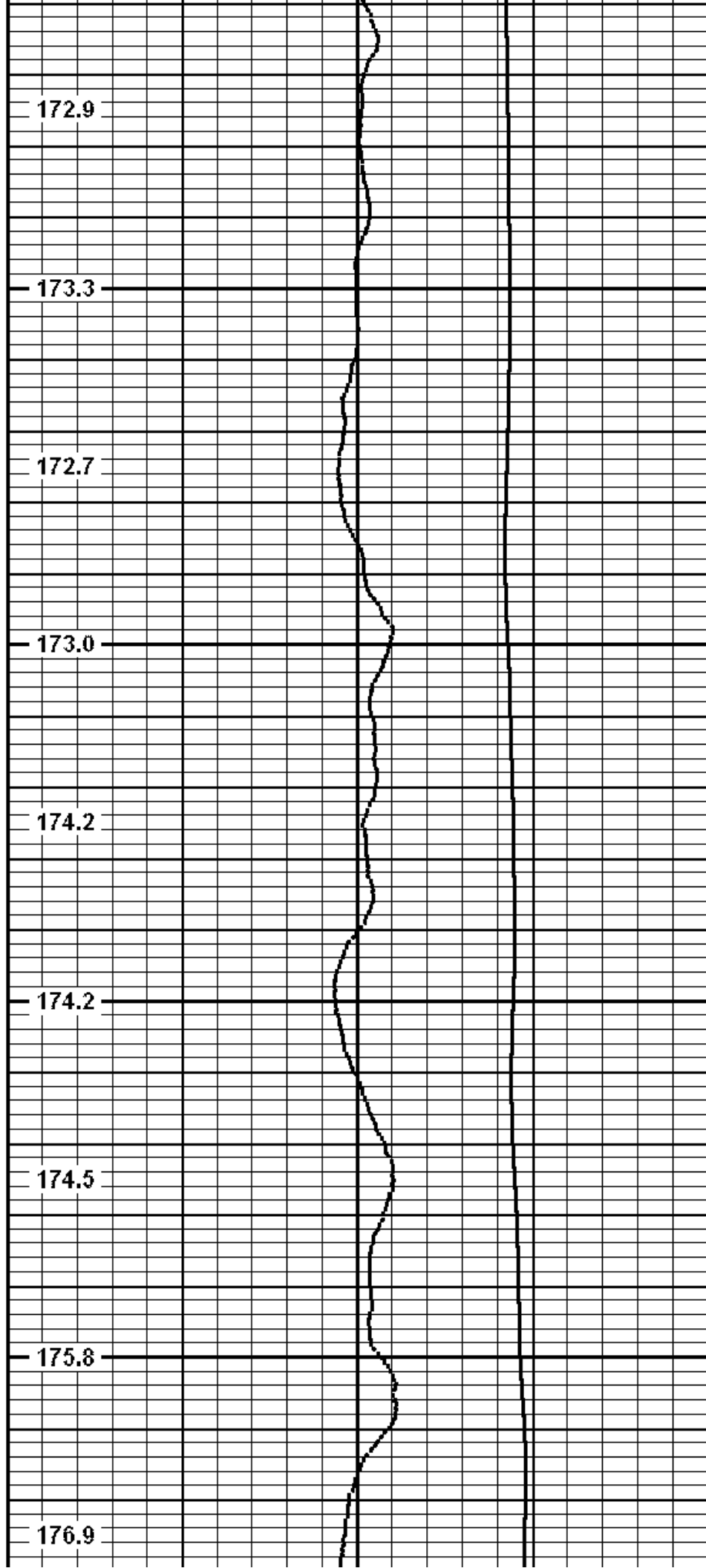
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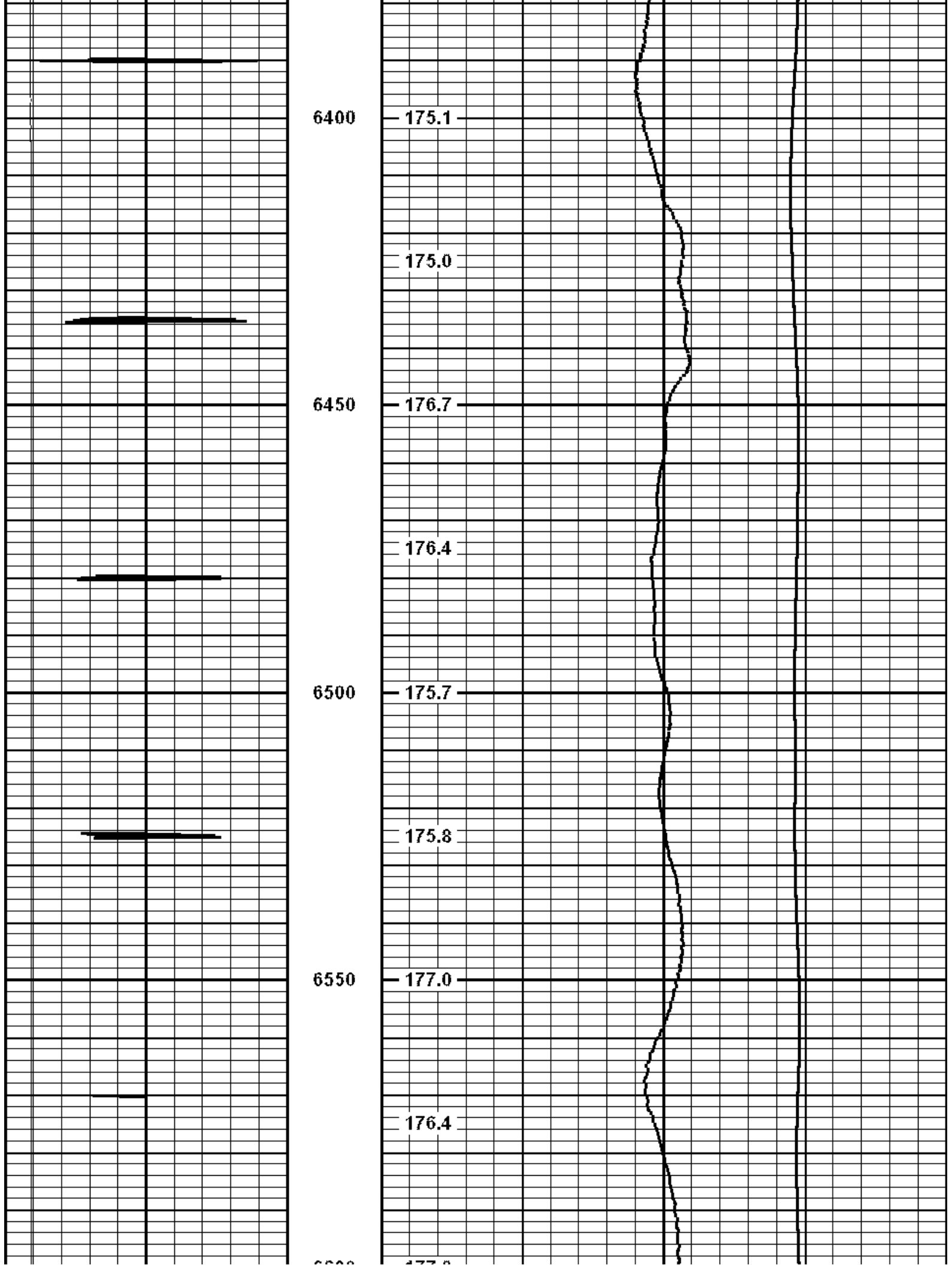
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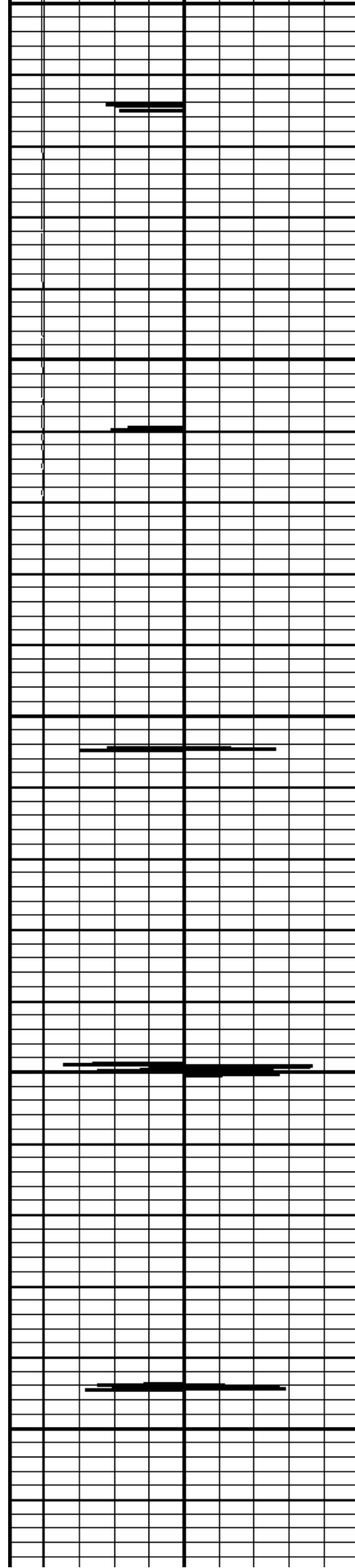
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175.8

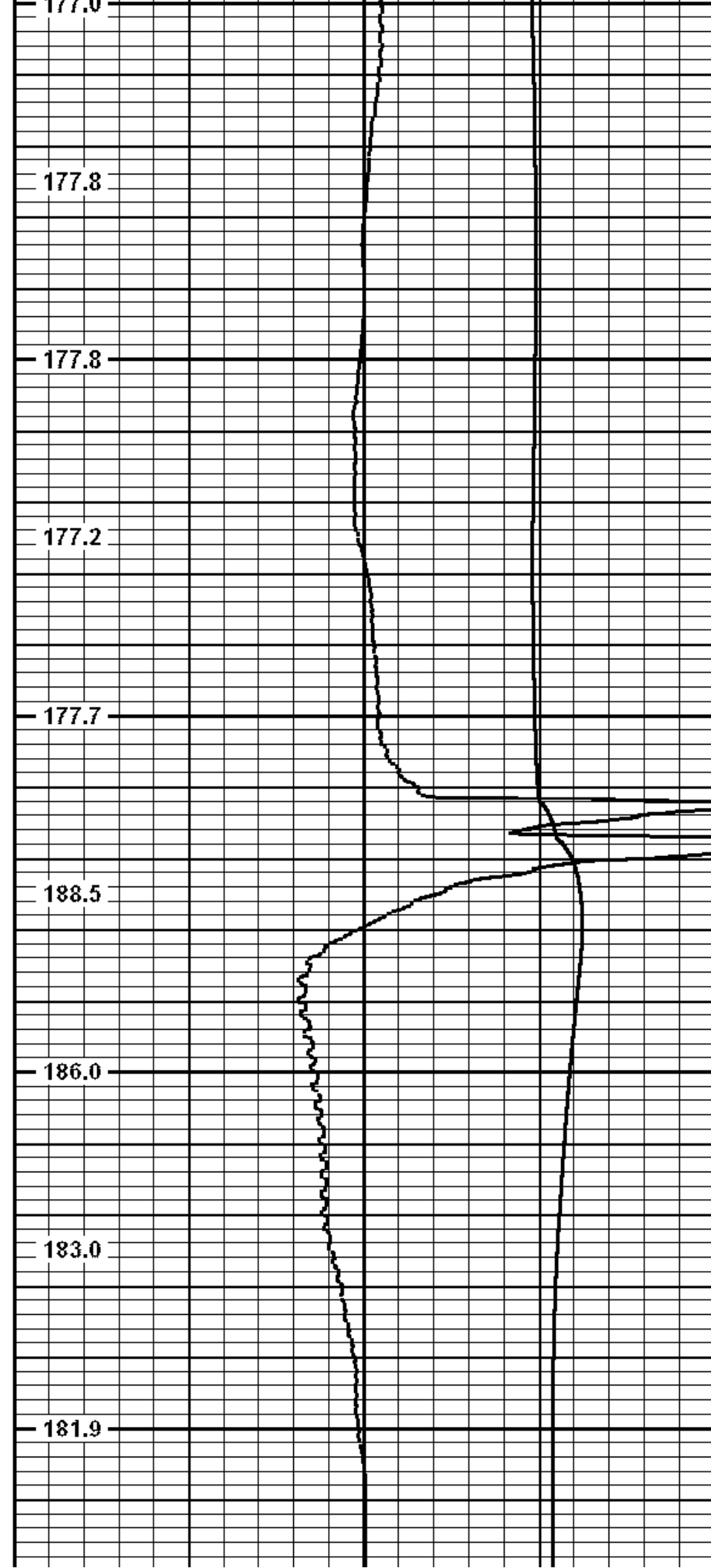
176.9







6600
6650
6700
6750
6800



177.0

177.8

177.8

177.2

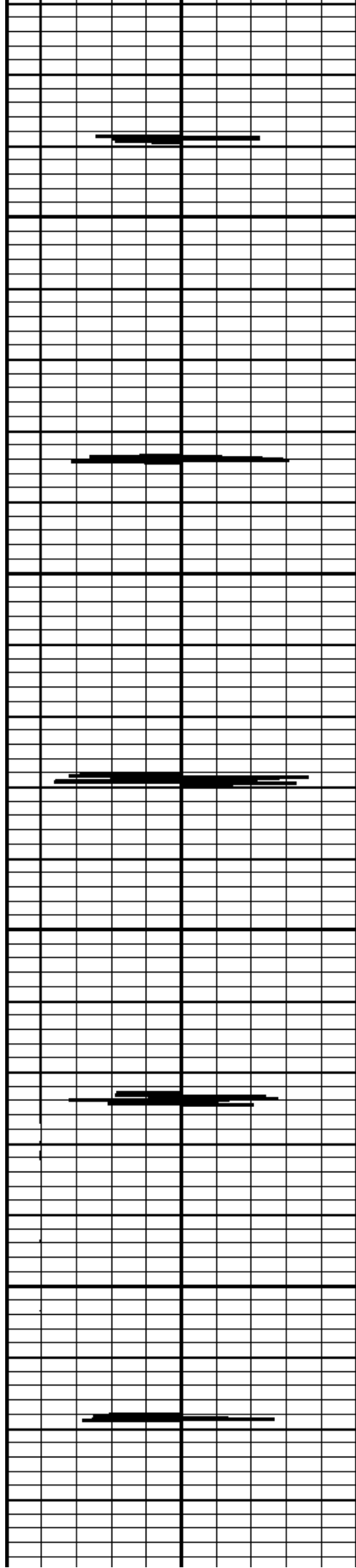
177.7

188.5

186.0

183.0

181.9

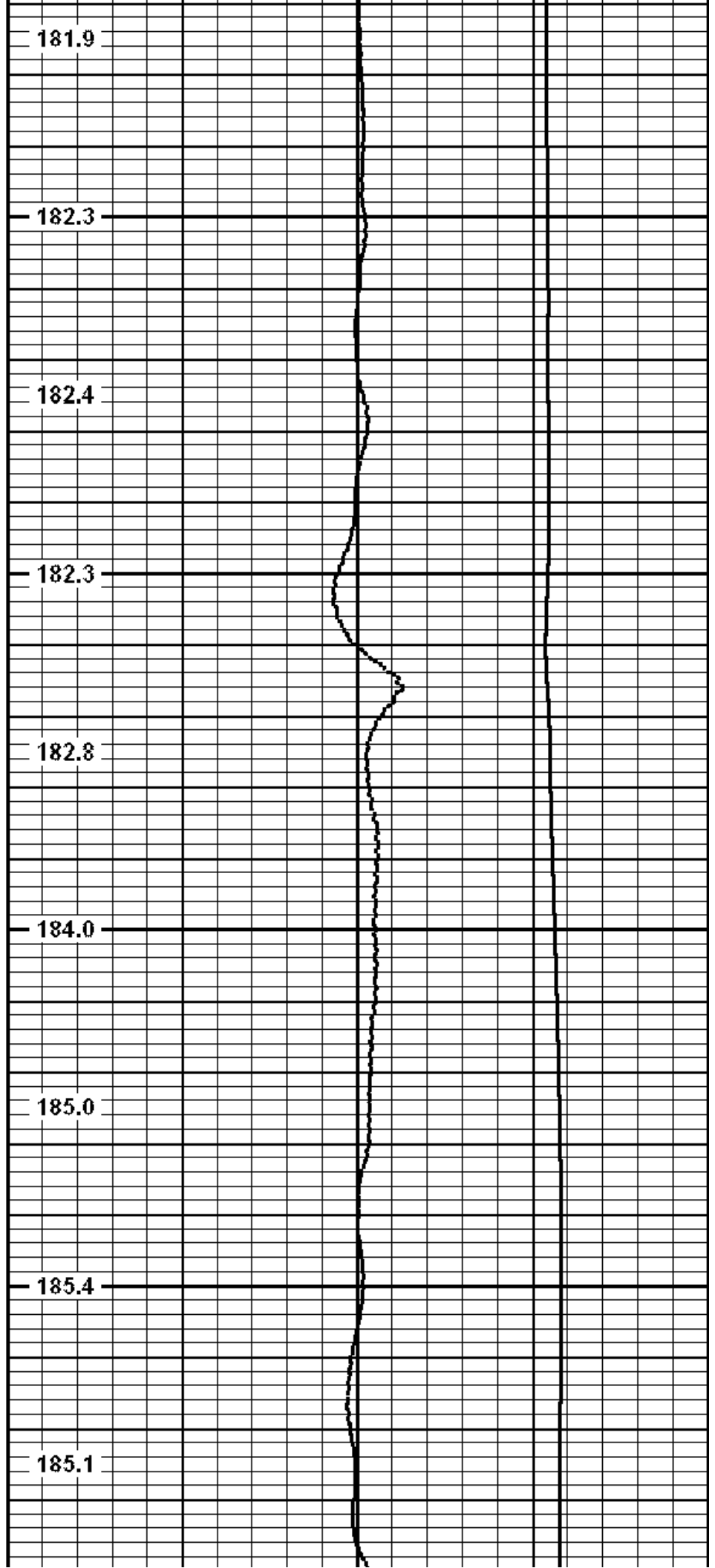


6850

6900

6950

7000



181.9

182.3

182.4

182.3

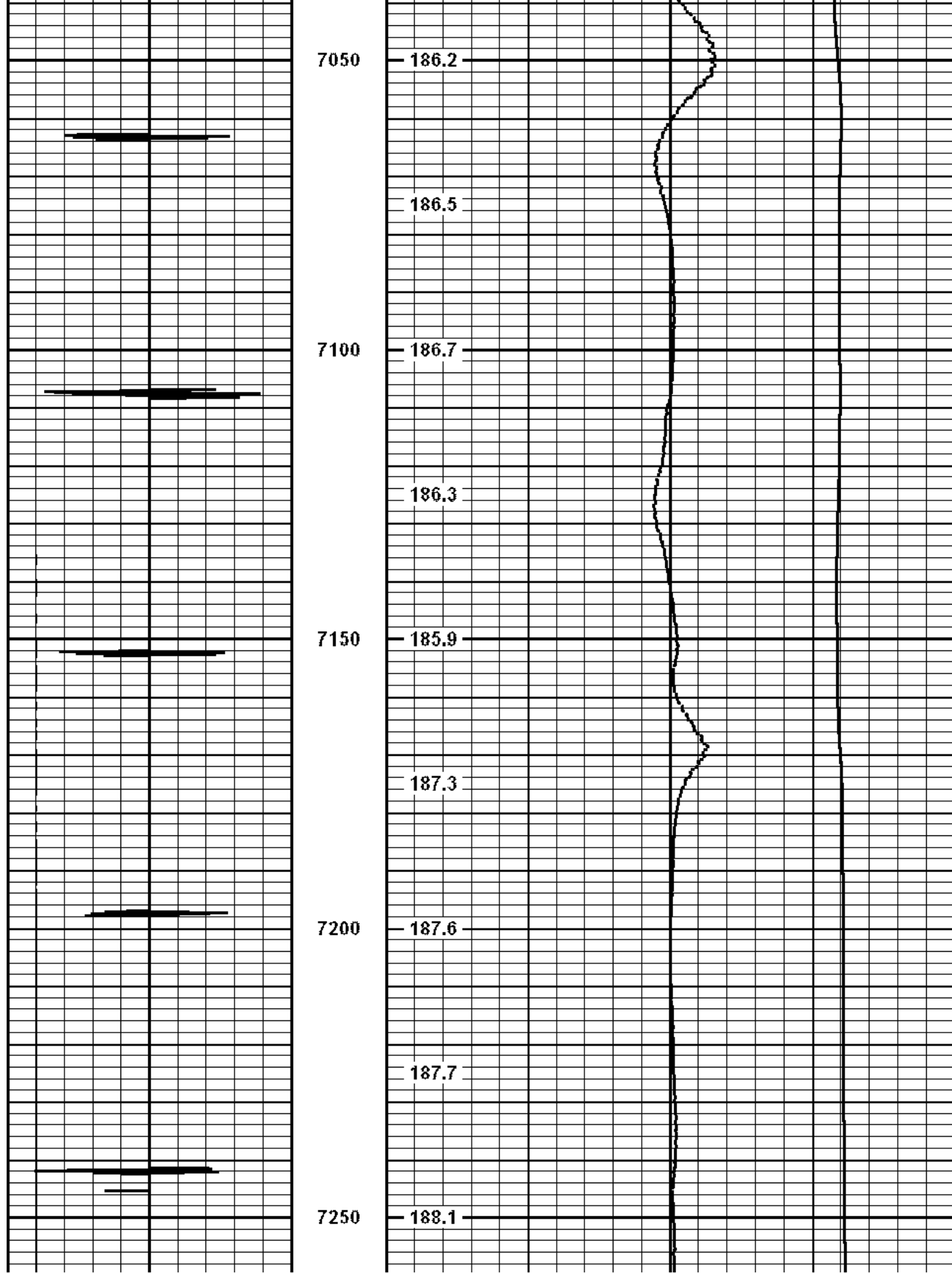
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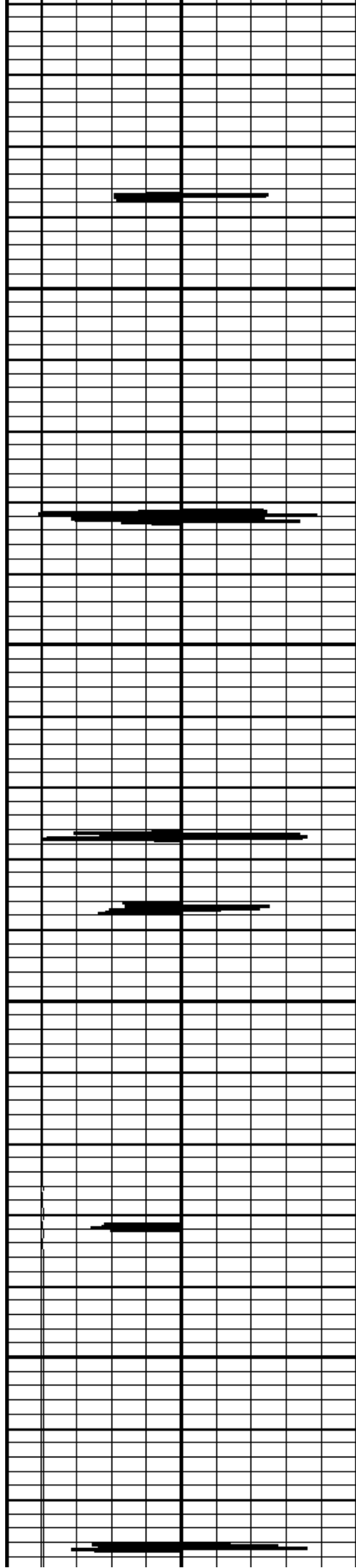
184.0

185.0

185.4

185.1





7300

7350

7400

7450

188.3

188.3

188.2

188.5

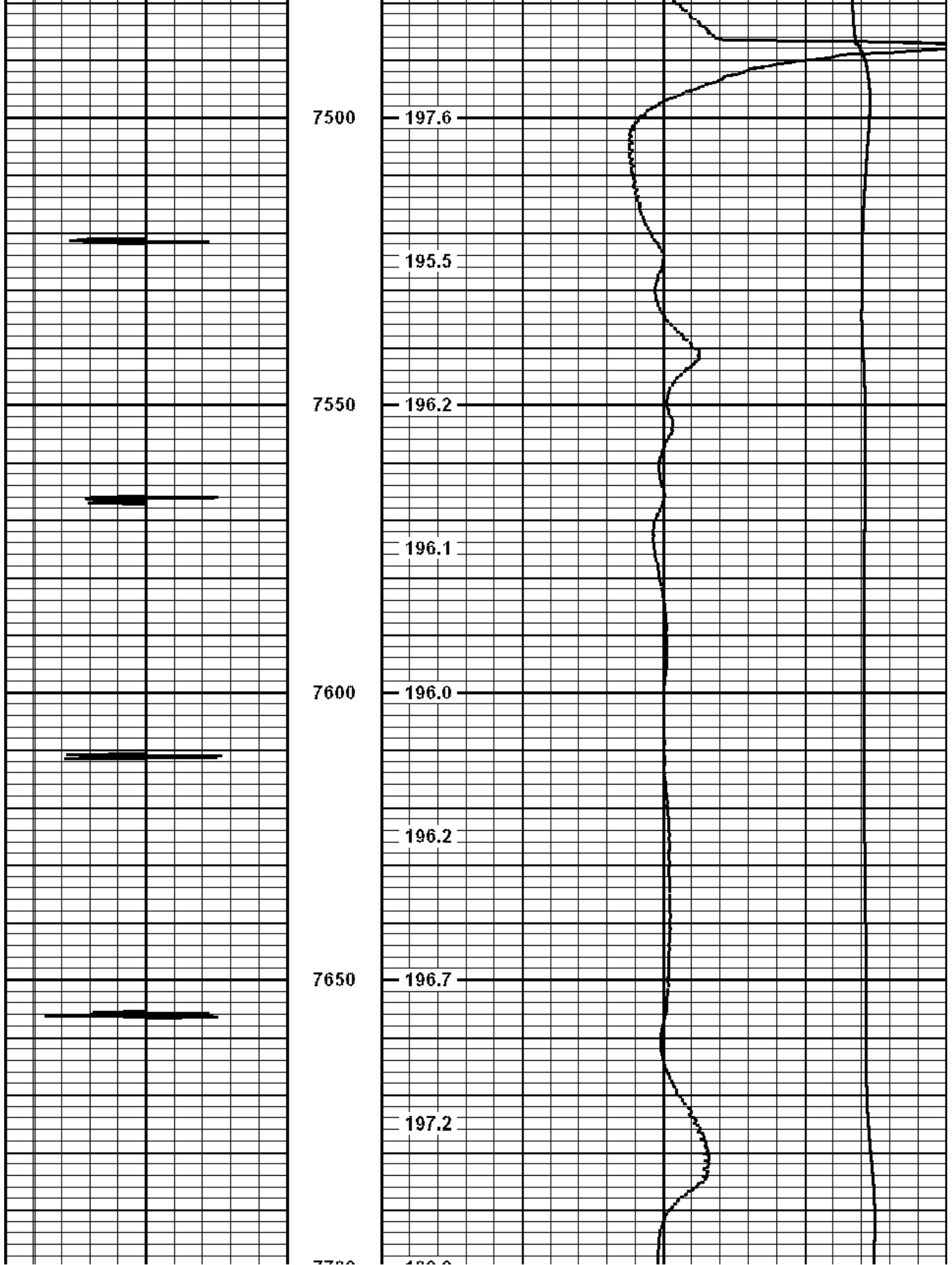
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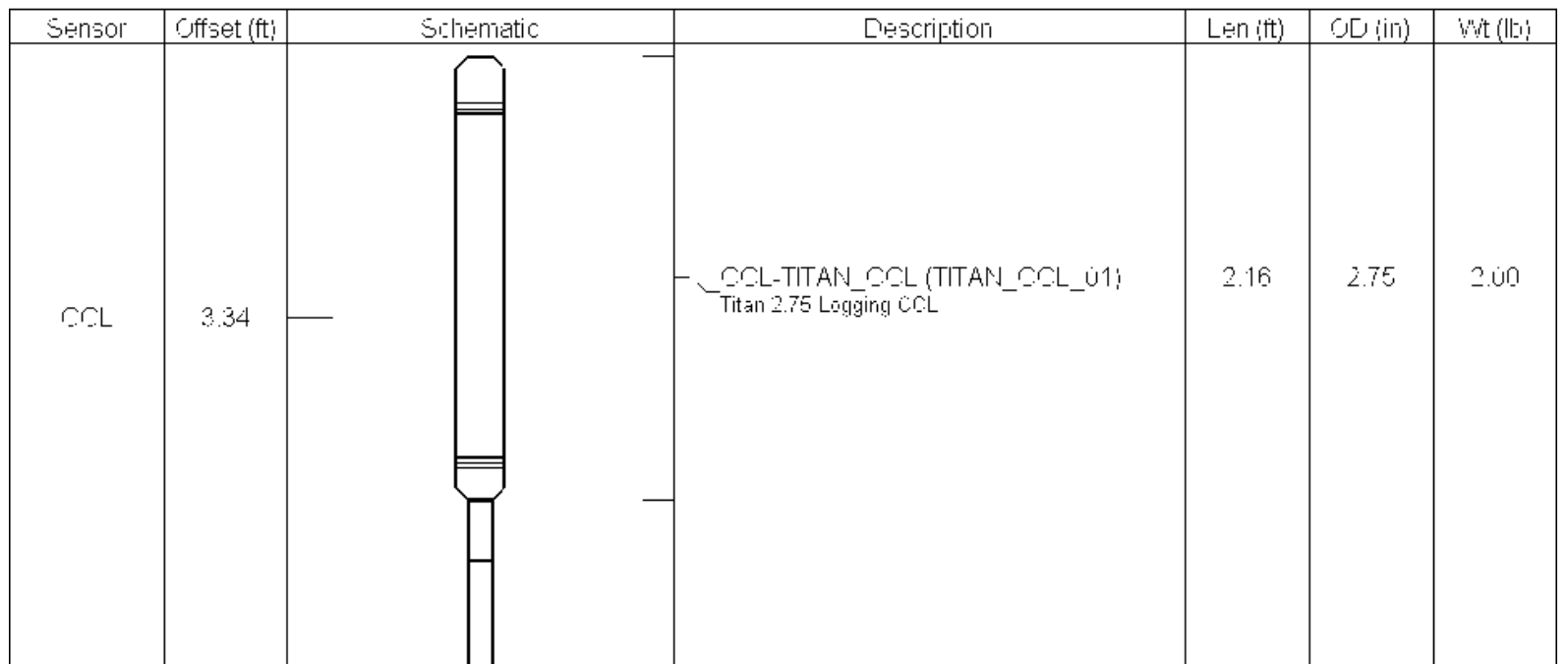
189.1


191.0

194.1

192.6





TEMP	0.35		TEMP-1.375TEMP (11116HT) 1.375 Titan Temp Tool	2.46	1.40	30.00
Dataset: csf_22c-09-07-91_temp.db; field/well/run1/pass2 Total Length: 4.61 ft Total Weight: 32.00 lb O.D.: 2.75 in						

	Company	URSA OPERATING COMPANY
	Well	CSF 22C-09-07-91
	Field	CASTLE SPRINGS
	County	GARFIELD
	State	CO