



**RADIAL CEMENT BOND LOG**  
**GAMMA RAY**  
**CCL**

Company KERR MCGEE OIL AND GAS ONSHORE  
Well SHEROOD L 30-29D  
Field WATTENBERG  
County WELD  
State COLORADO

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Well SHEROOD L 30-29D  
Field WATTENBERG  
County WELD State COLORADO

Location: API # : 05-123-31135  
LAT : 40.20080 LONG : -104.82730  
N1W NW  
Permanent Datum SEC 30 TWP 3N RGE 66W  
Log Measured From KB 15 Elevation 4820  
Drilling Measured From K.B  
Other Services  
K.B. 4835  
D.F. 4834  
G.L. 4820

Date 9-17-2014

Run Number	ONE
Depth Driller	8083
Depth Logger	7134
Bottom Logged Interval	7130
Top Log Interval	SURFACE
Open Hole Size	7.875
Type Fluid	WATER
Density / Viscosity	1.0
Max. Recorded Temp.	206 DEG F
Estimated Cement Top	296
Time Well Ready	NA
Time Logger on Bottom	NA
Equipment Number	4740
Location	GREELEY, CO
Recorded By	J.J.BULLARD
Witnessed By	E.CHAVEZ

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25	0	606				
TWO	8.875	606	8083				
THREE							

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.63	24#	15	606
Prot. String				
Production String	4.5	11.6#	15	8083
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

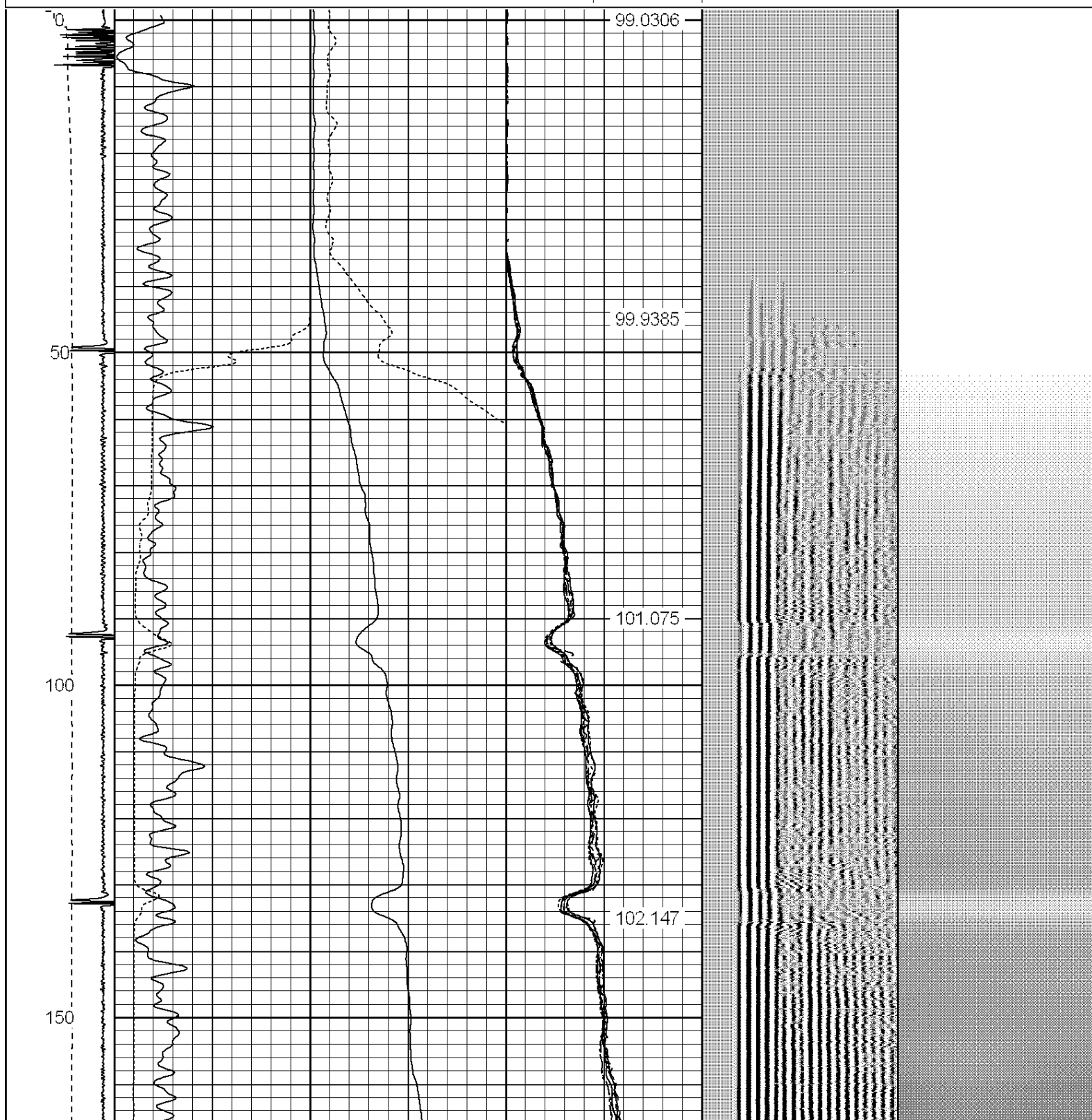
NOT CORRELATED  
RAN CBL TO VERIFY CEMENT BOND.

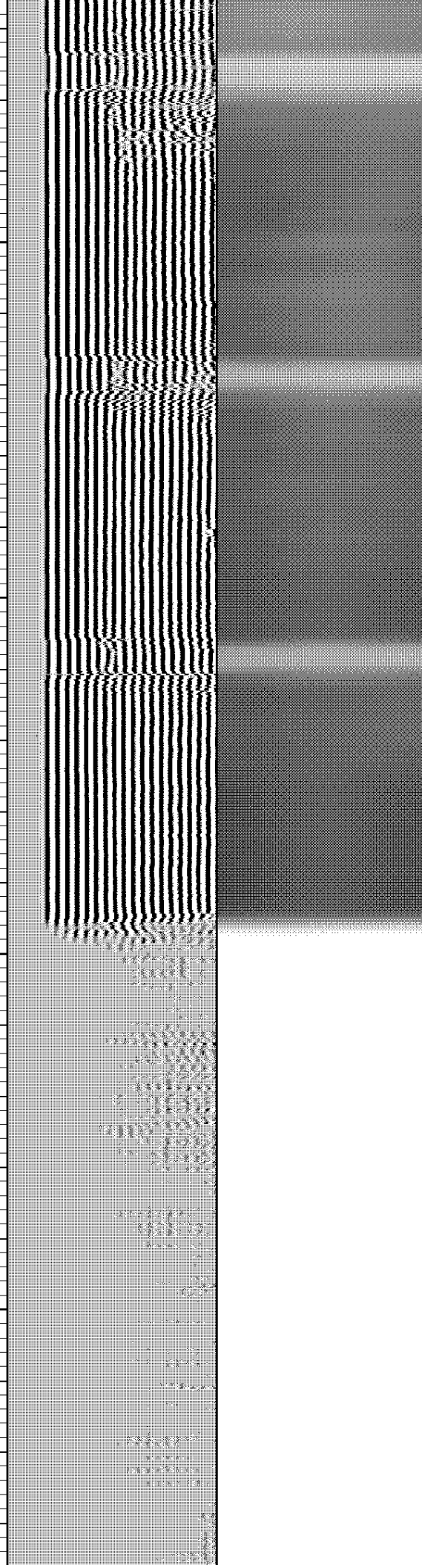
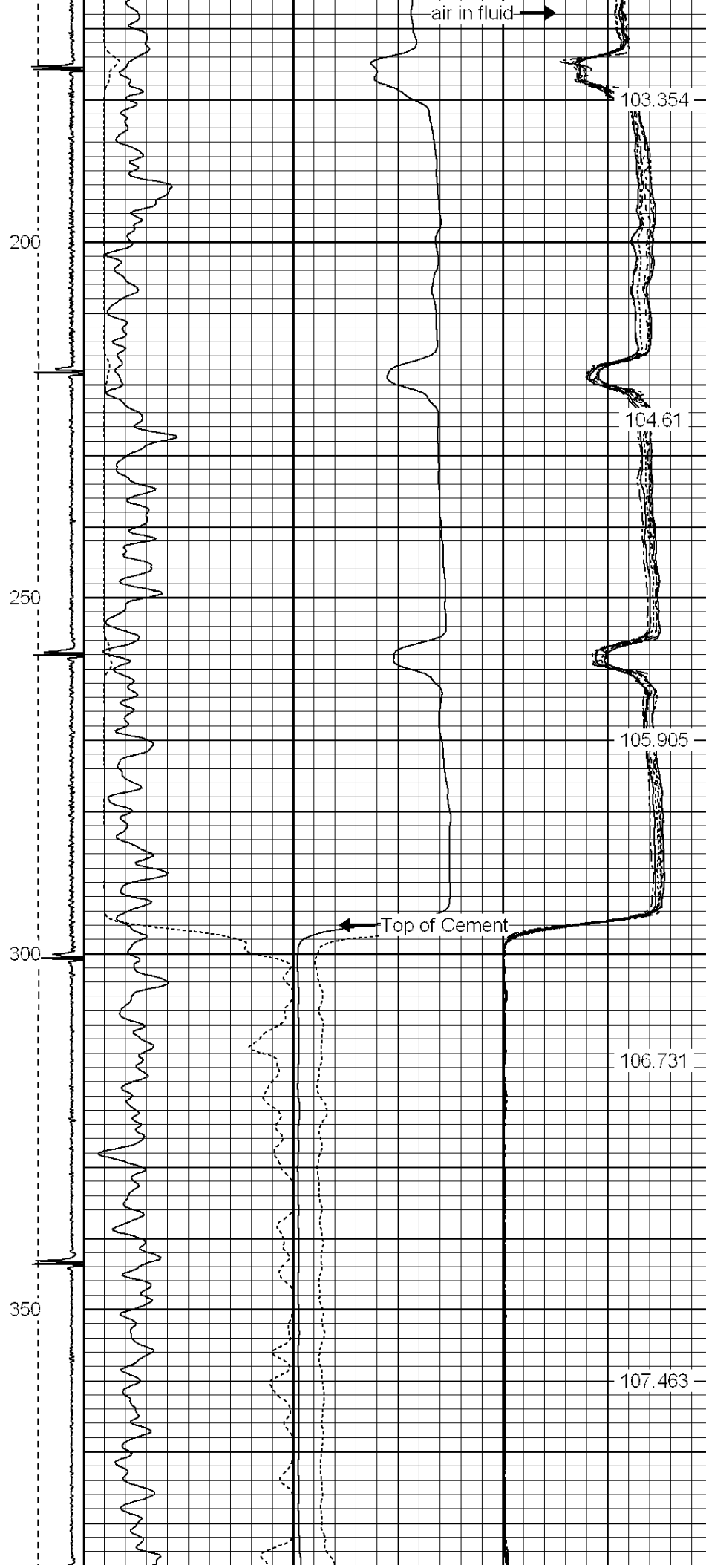
THANK YOU FOR USING WARRIOR ENERGY SERVICES!!!

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

			PTS275	2.83	2.75	
HEADVOLT	16.25					
IntTemp	14.83					
WVF3FT	11.58		RBT-Probe (Base)	8.92	2.75	90.00
WVFCAL	11.58		Probe Radii Bond Tool with Digital Telemetry			
WVFS1	11.58					
WVFS2	11.58					
WVFS3	11.58					
WVFS4	11.58					
WVFS5	11.58					
WVFS6	11.58					
WVFS7	11.58					
WVFS8	11.58					
WVF5FT	10.58					
CNLSC	6.00		CNT-Probe_B (275)	3.00	2.75	40.00
CNSSC	5.17		6 bow centralizer			
CCL	3.64					
			GR-Probe (275)	4.33	2.75	30.00
			Probe 2.75"			
GR	0.90					
Dataset: sherwood 30-29d.db: field/well/run1/pass3 Total Length: 19.08 ft Total Weight: 160.00 lb O.D. 2.75 in						

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





400

108.108

450

108.632

500

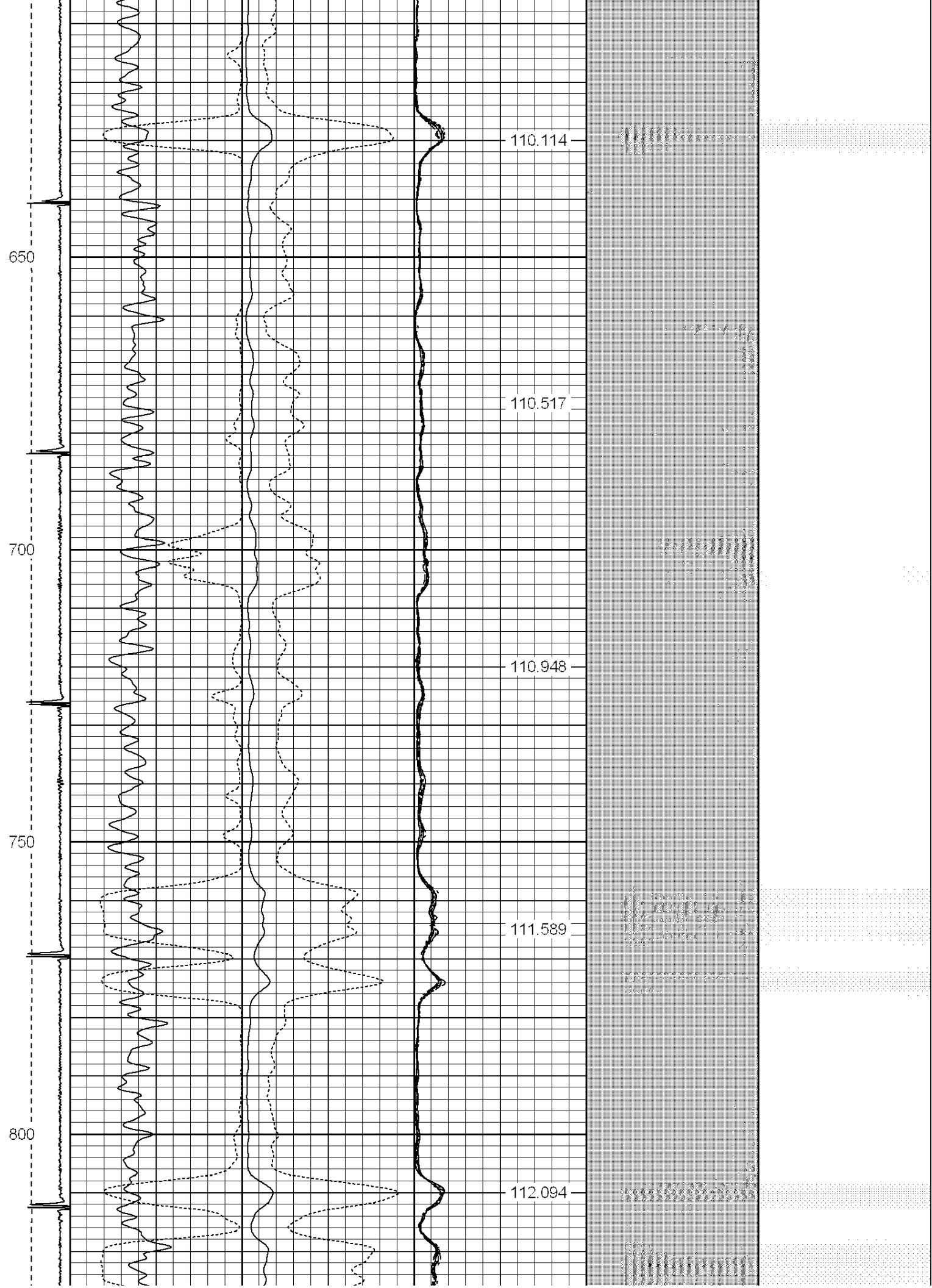
109.252

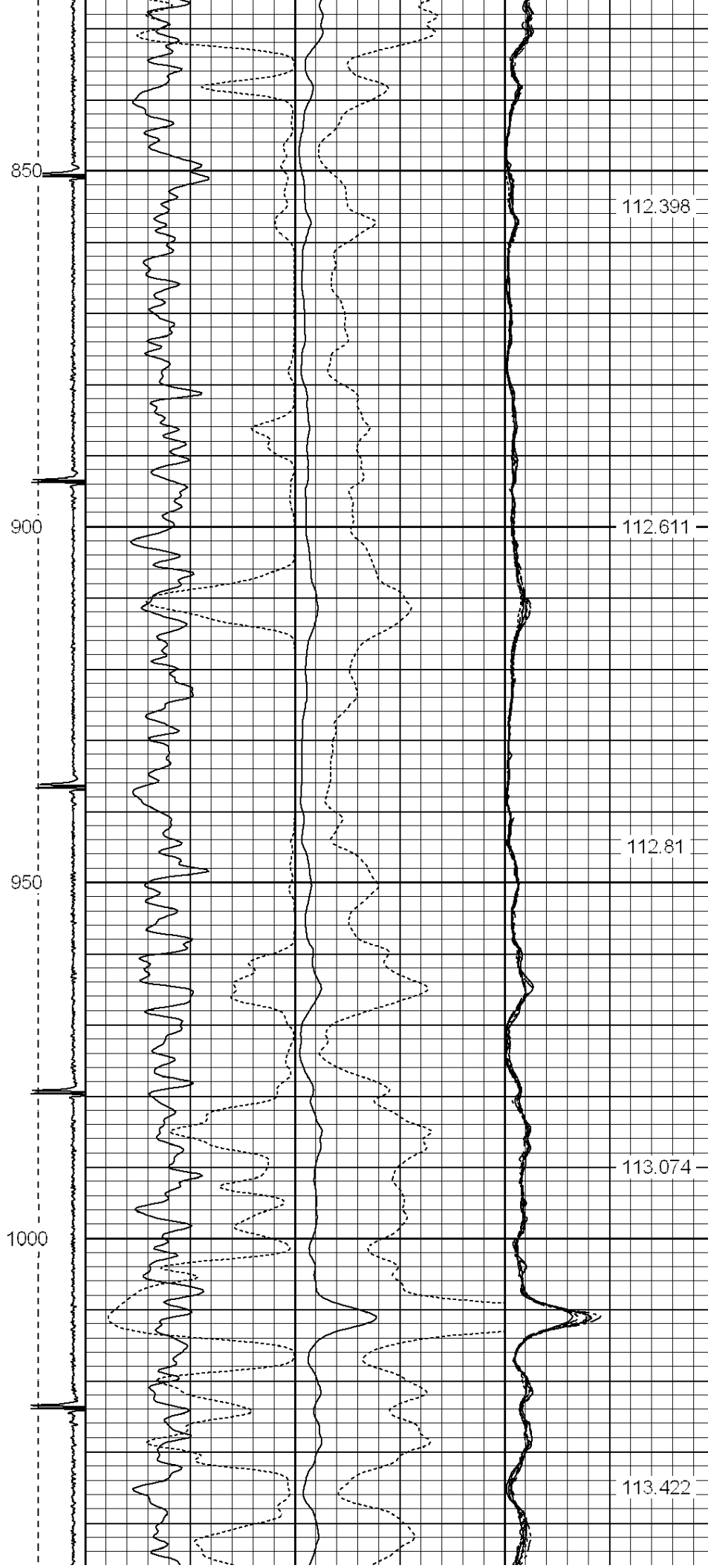
550

109.767

600

109.988







1050

1100

1150

1200

1250

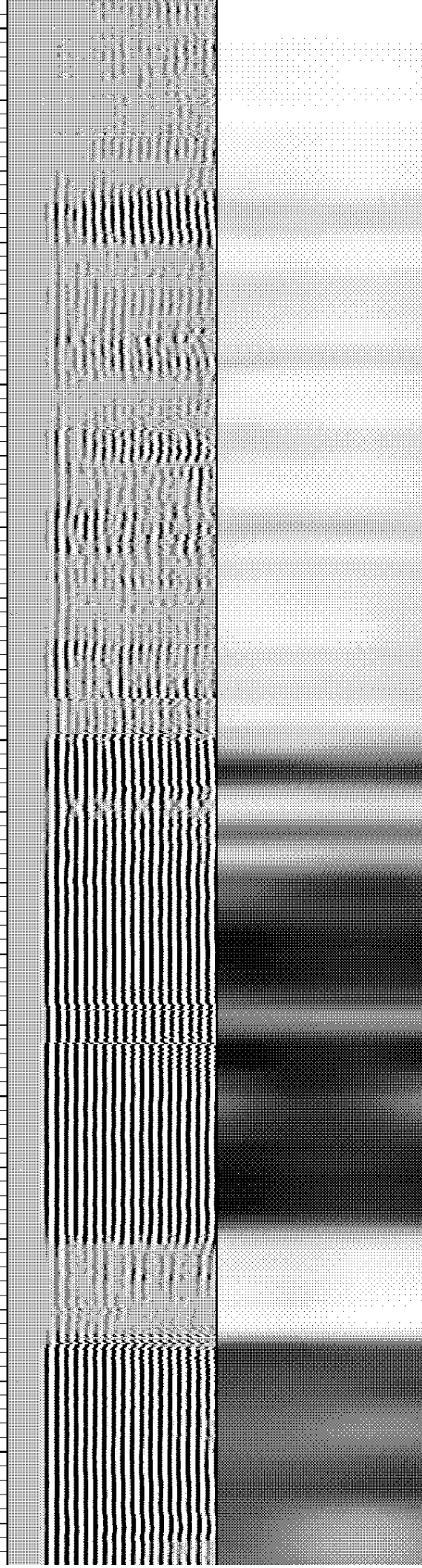
113.792

114.17

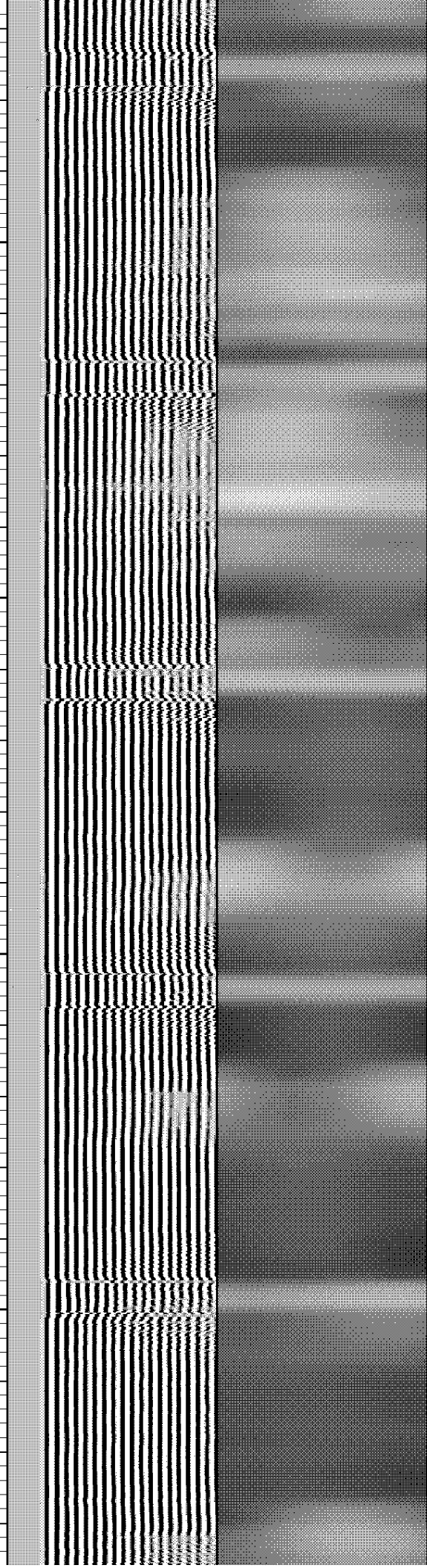
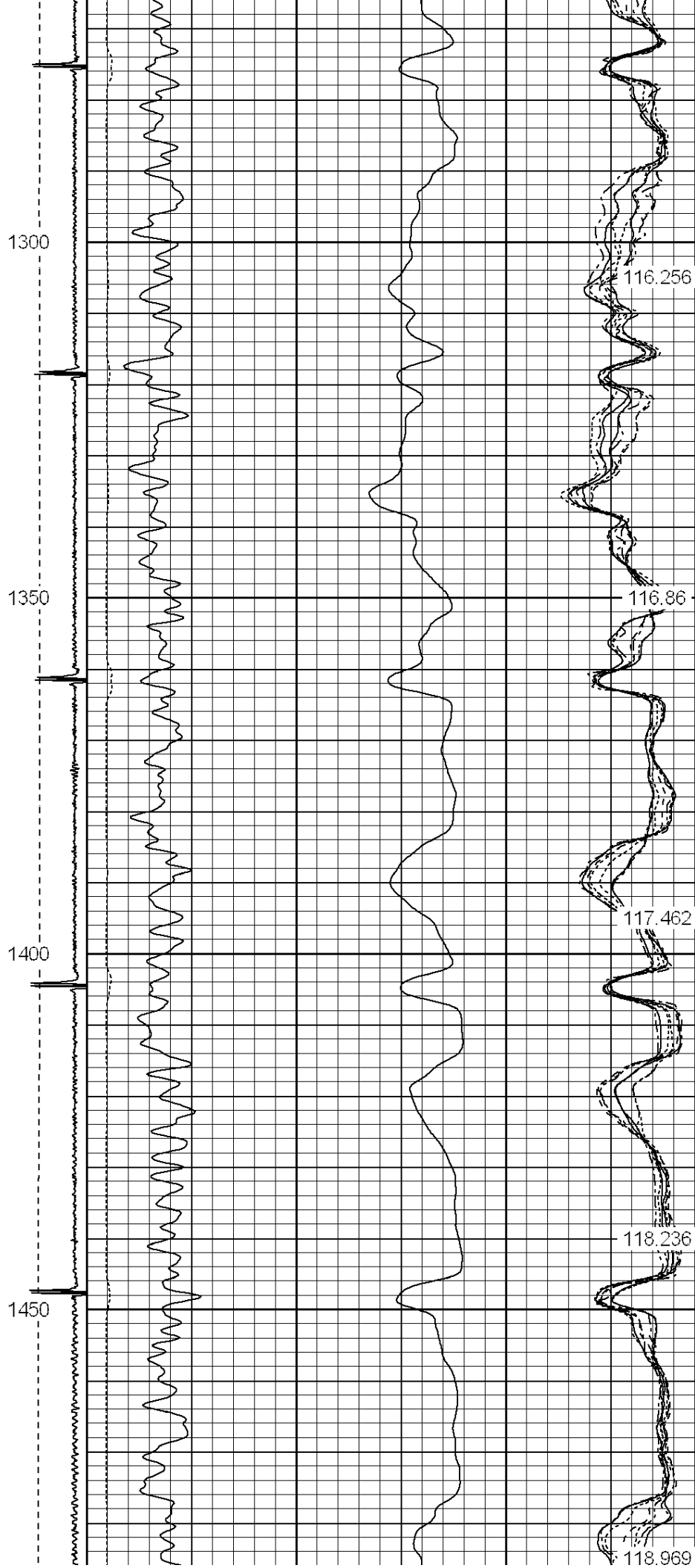
114.665

115.151

115.781







1500

1550

1600

1650

1700

119.596

120.137

120.715

121.511

1750

1800

1850

1900

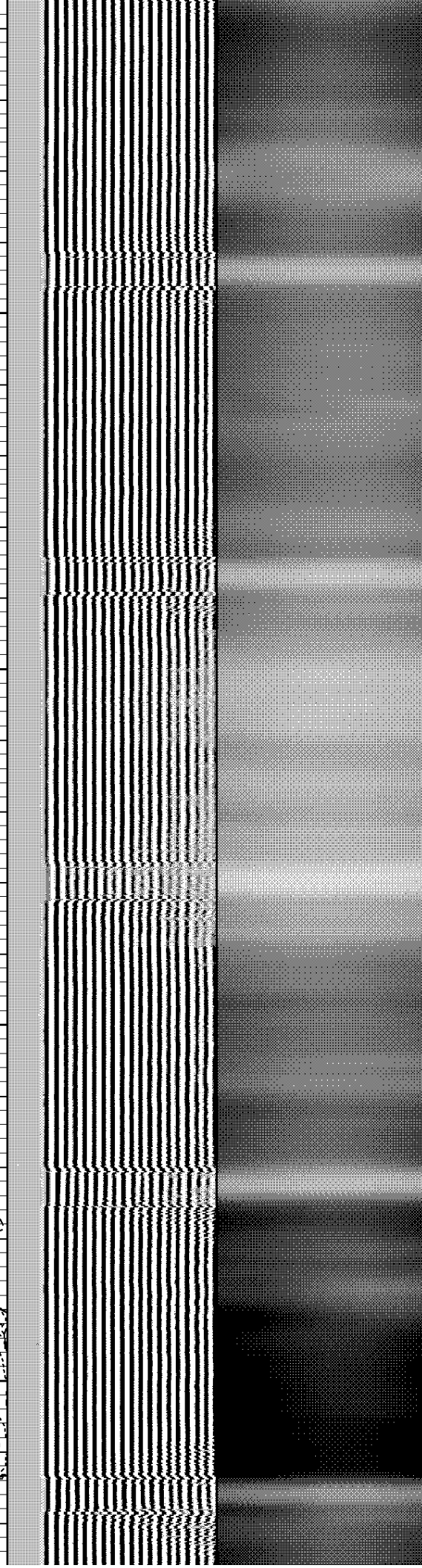
122.093

122.787

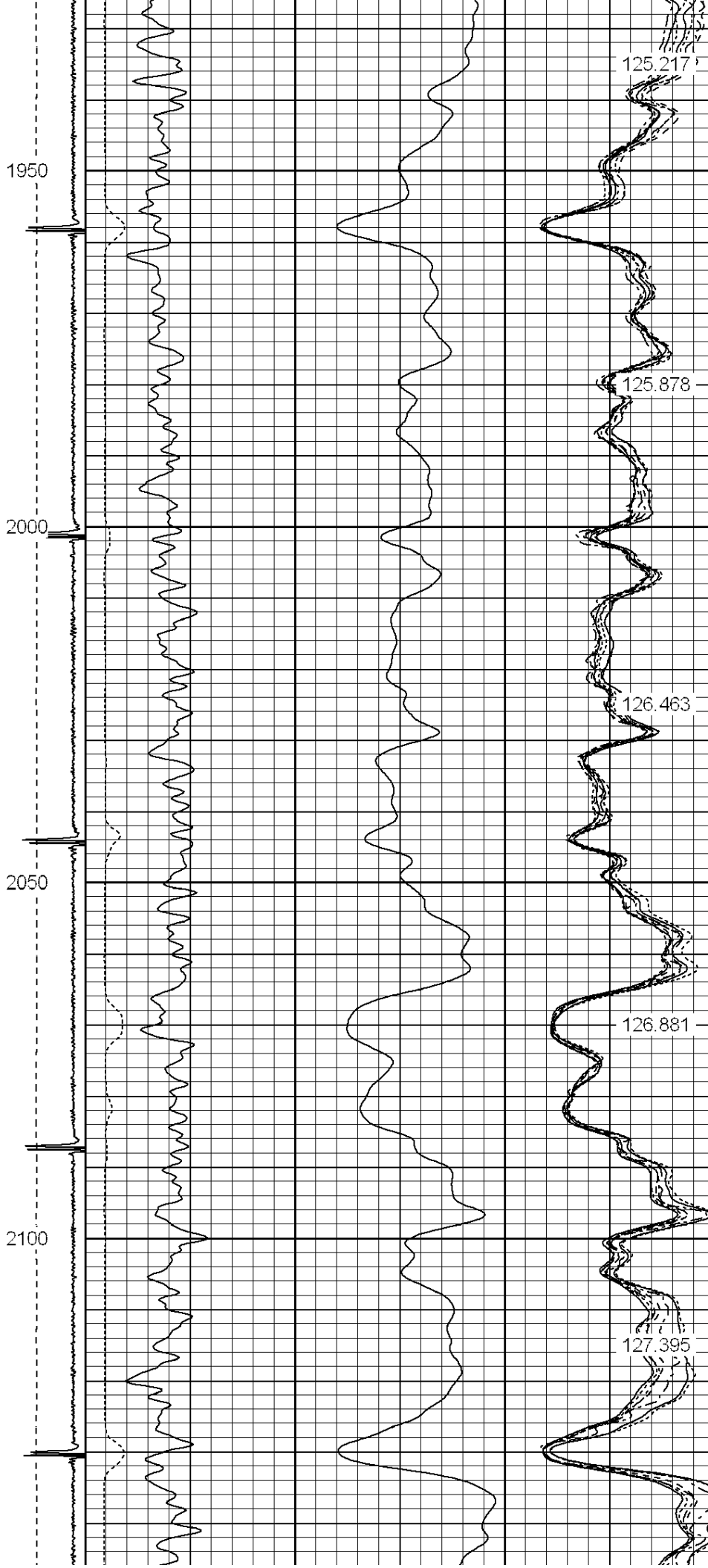
123.4

124.019

124.673







2150

2200

2250

2300

2350

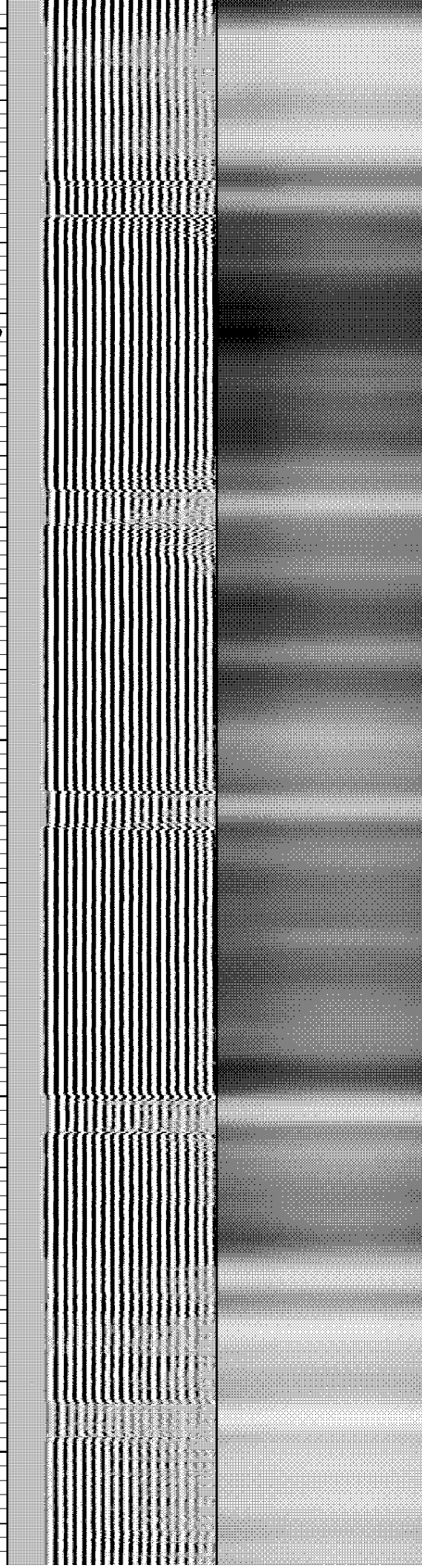
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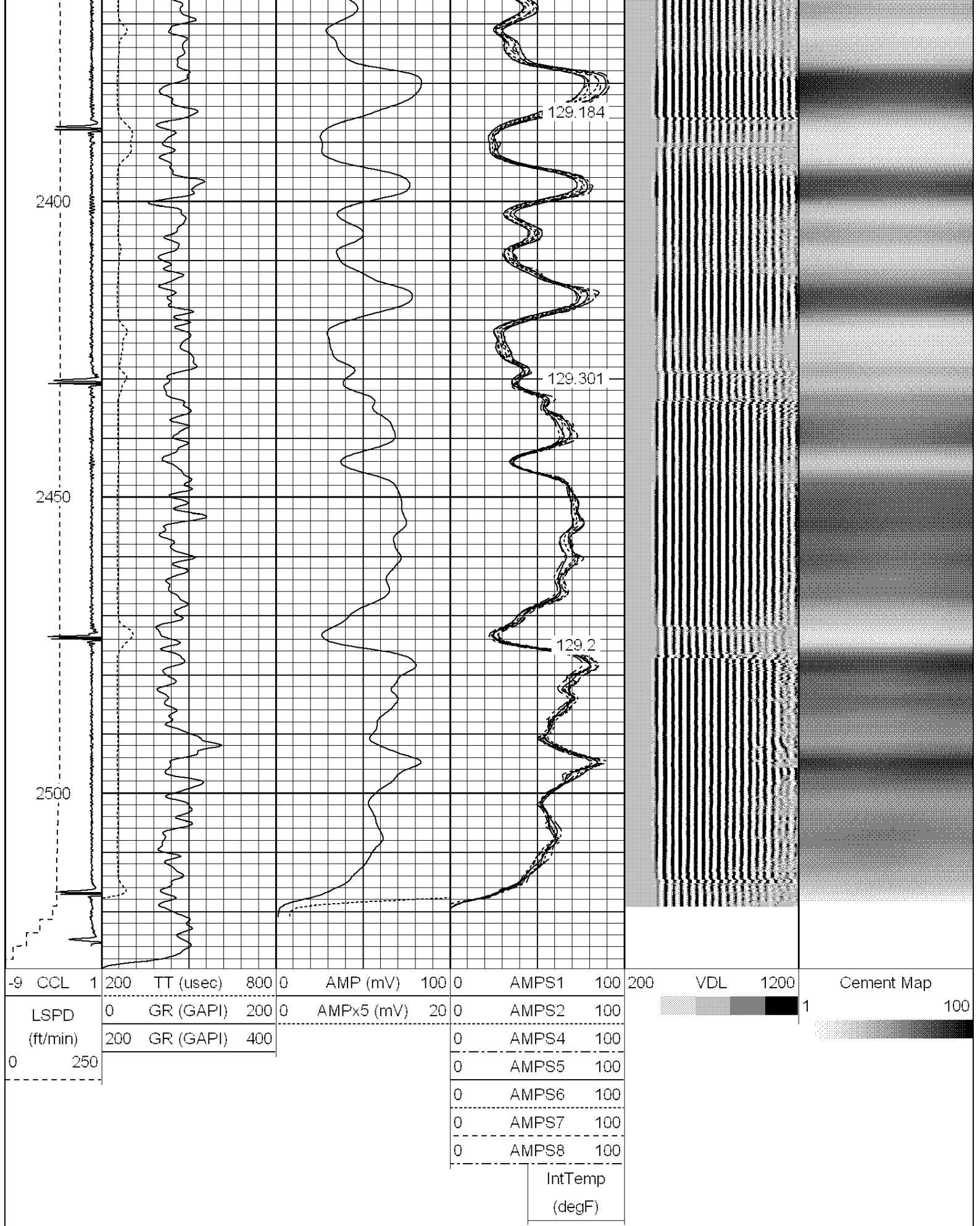
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128.414

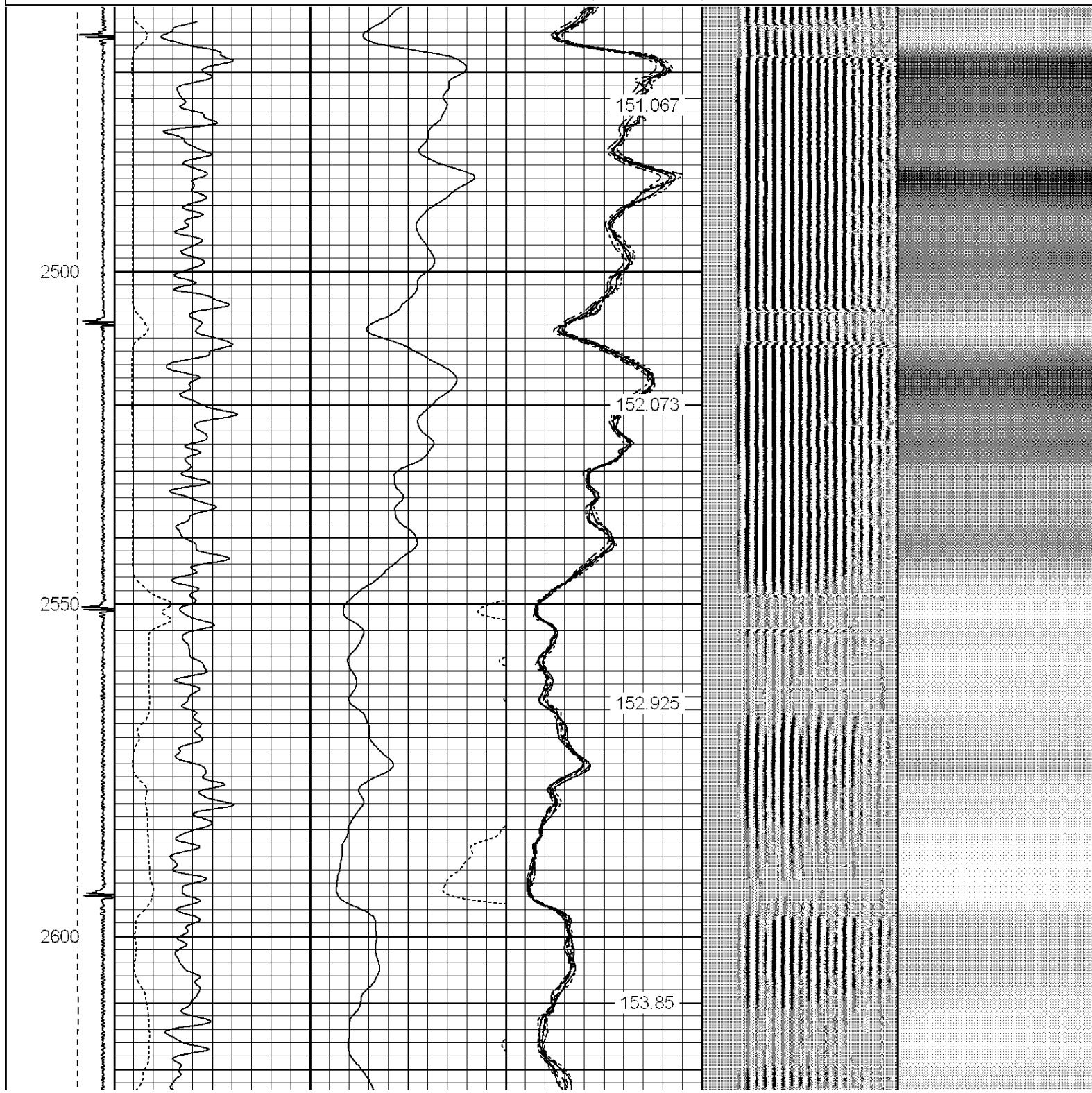
128.767

128.949





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





2650

154.714

2700

155.699

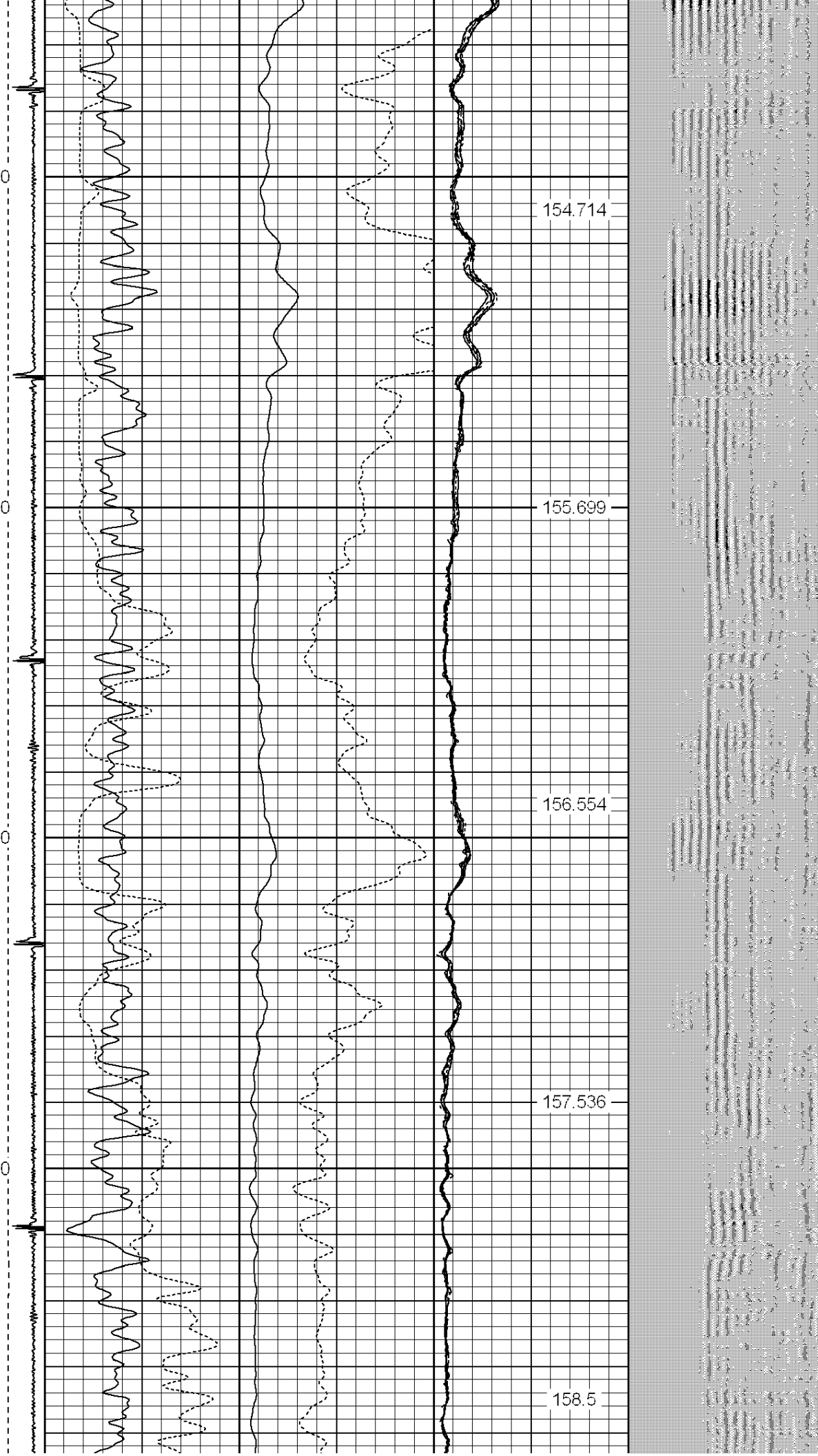
2750

156.554

2800

157.536

158.5



2850

2900

2950

3000

3050

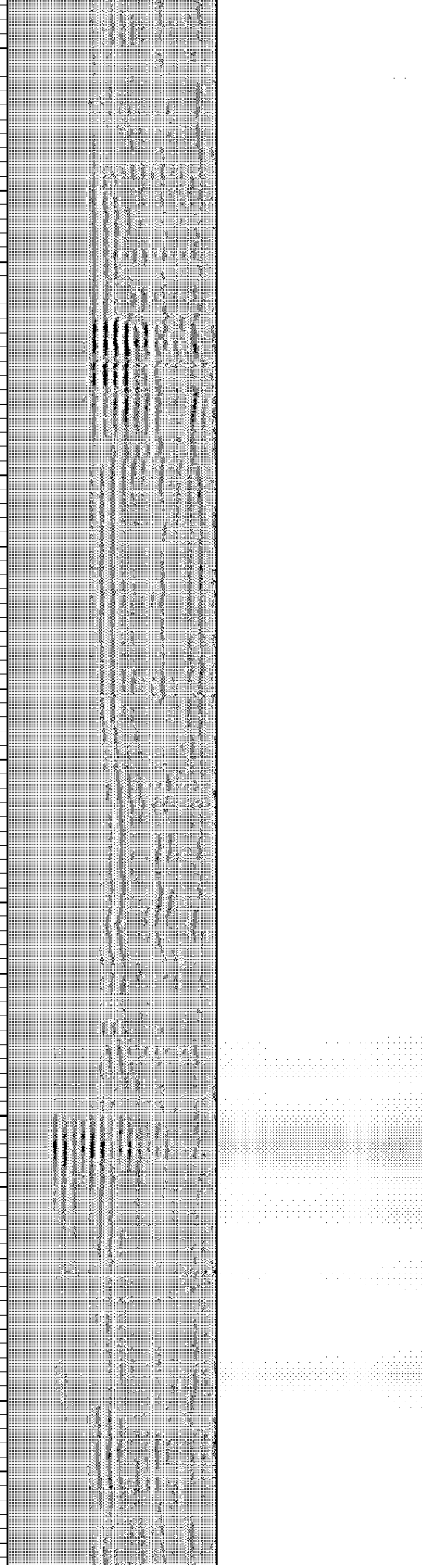
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160.34

161.271

162.157

163.068



3100

163.931

3150

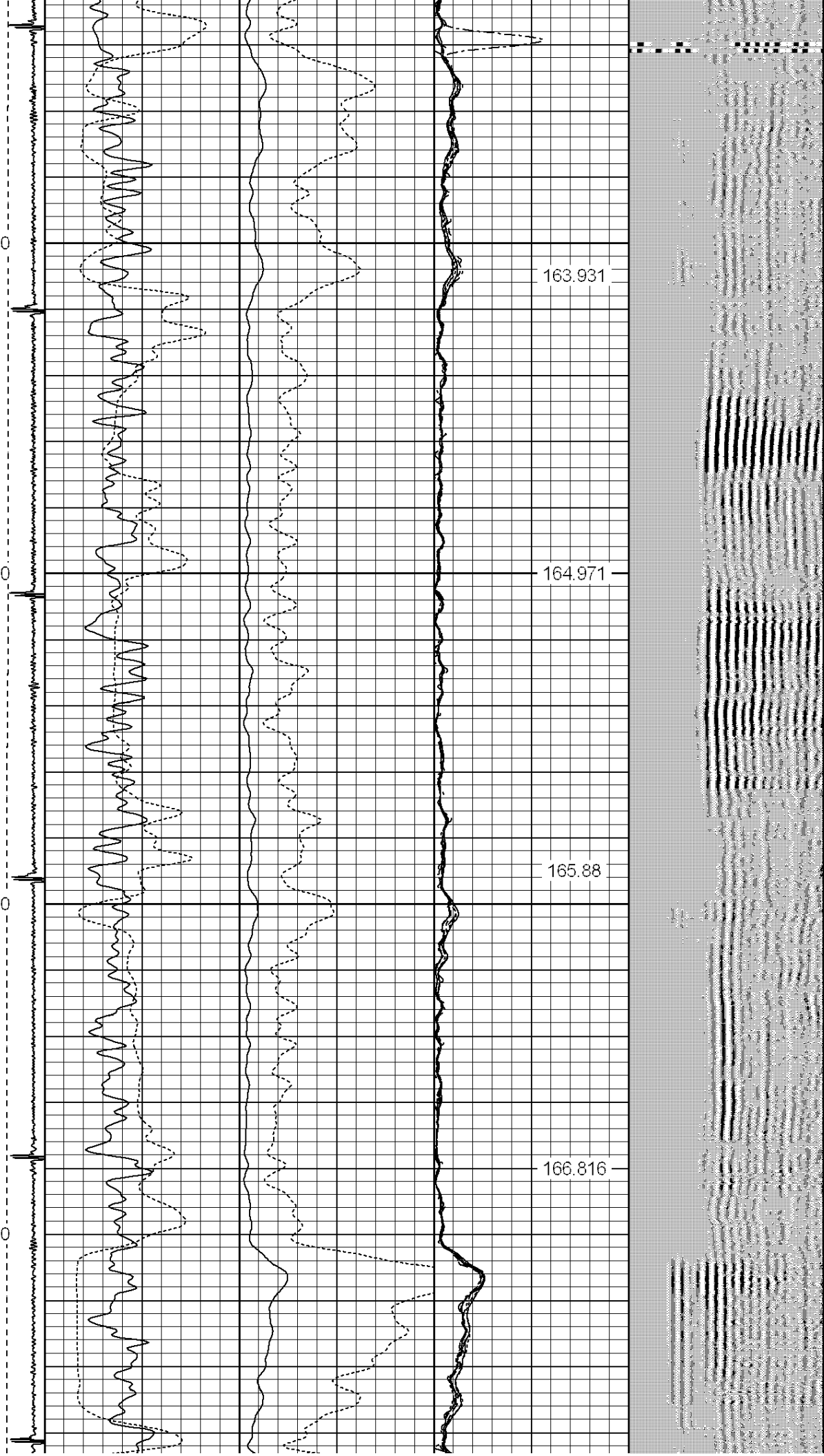
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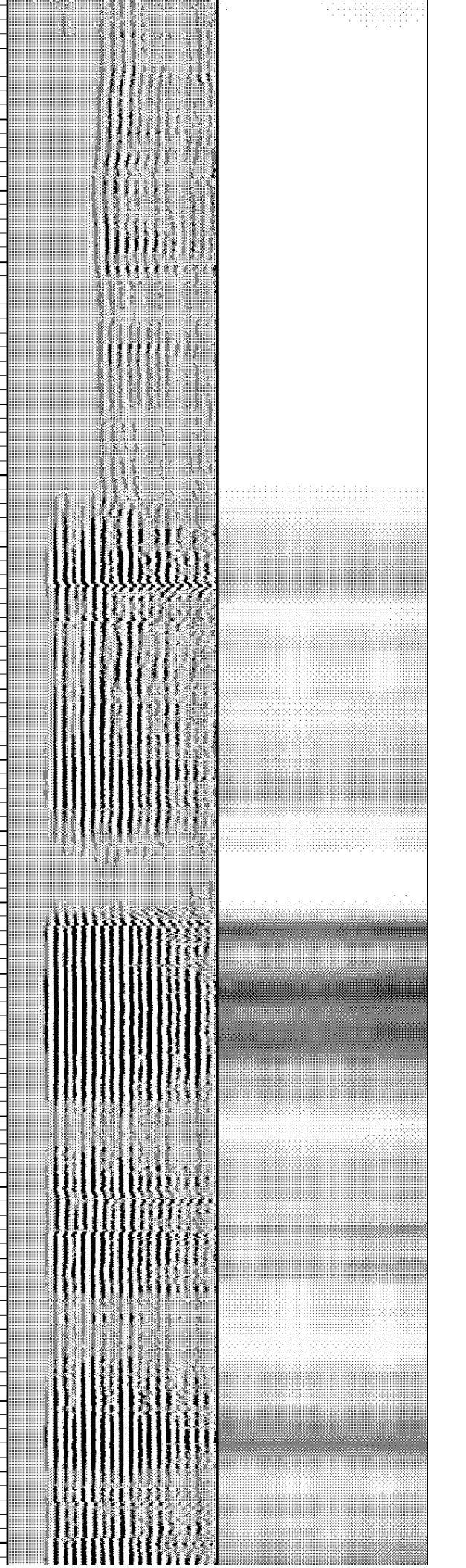
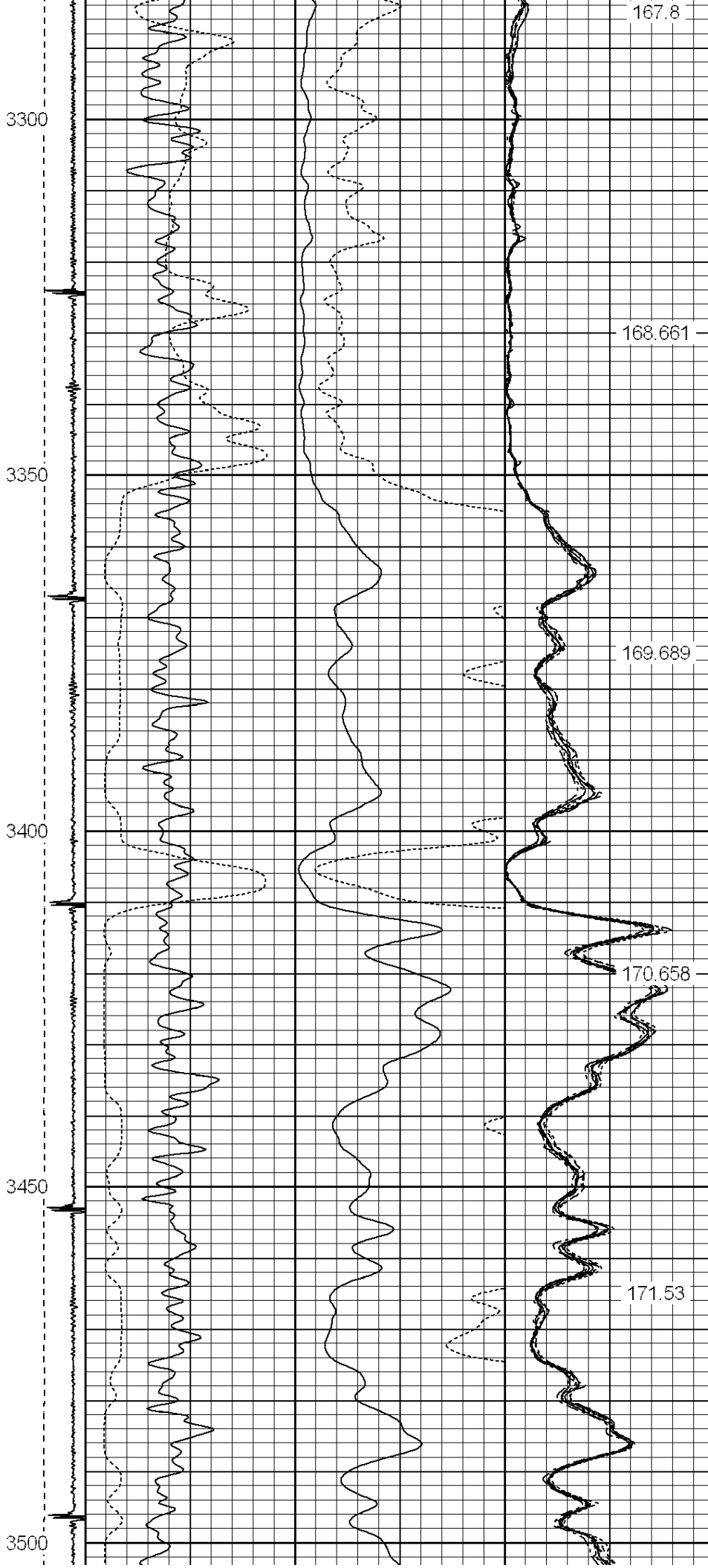
3200

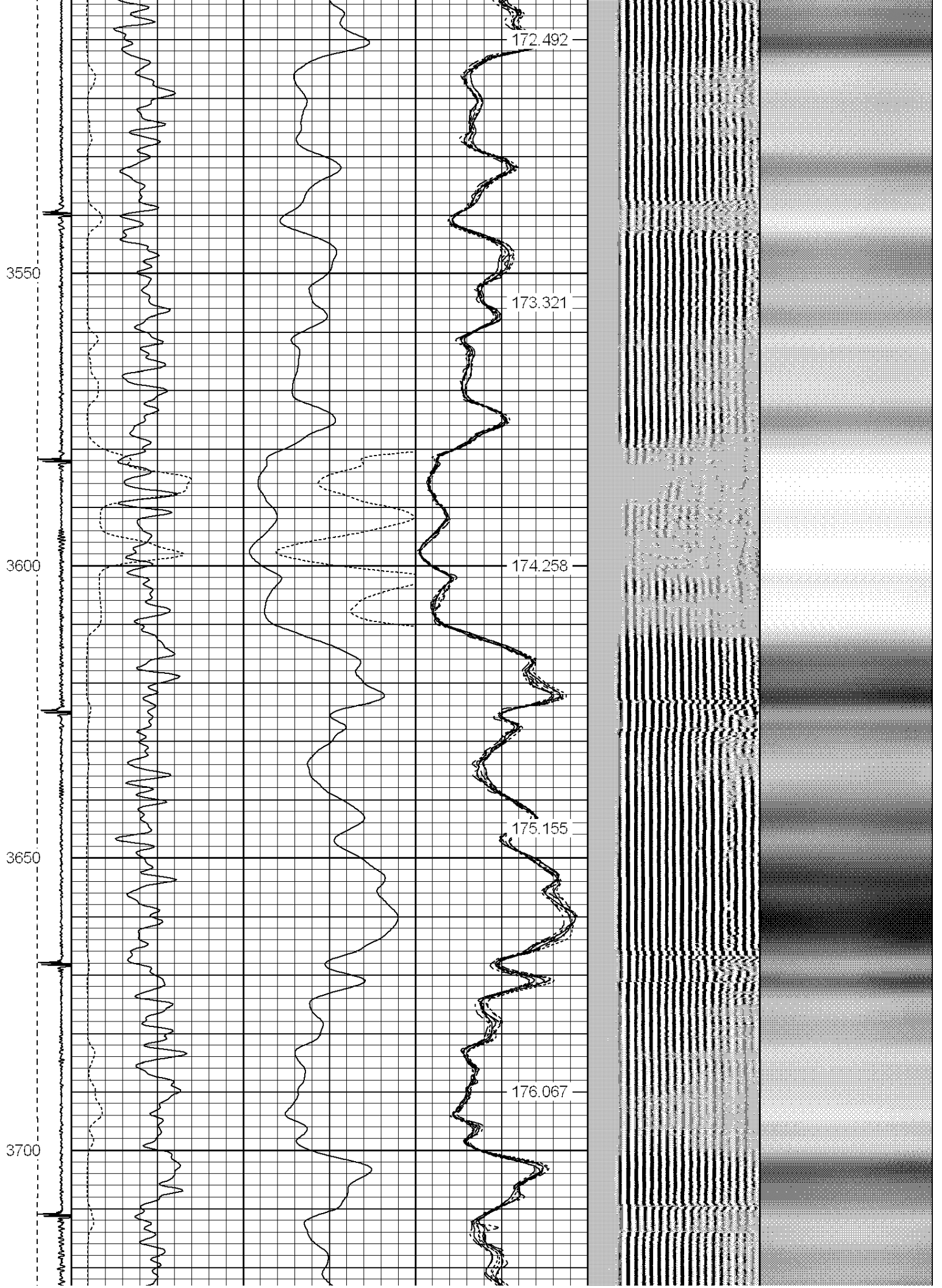
165.88

3250

166.816









3750

3800

3850

3900

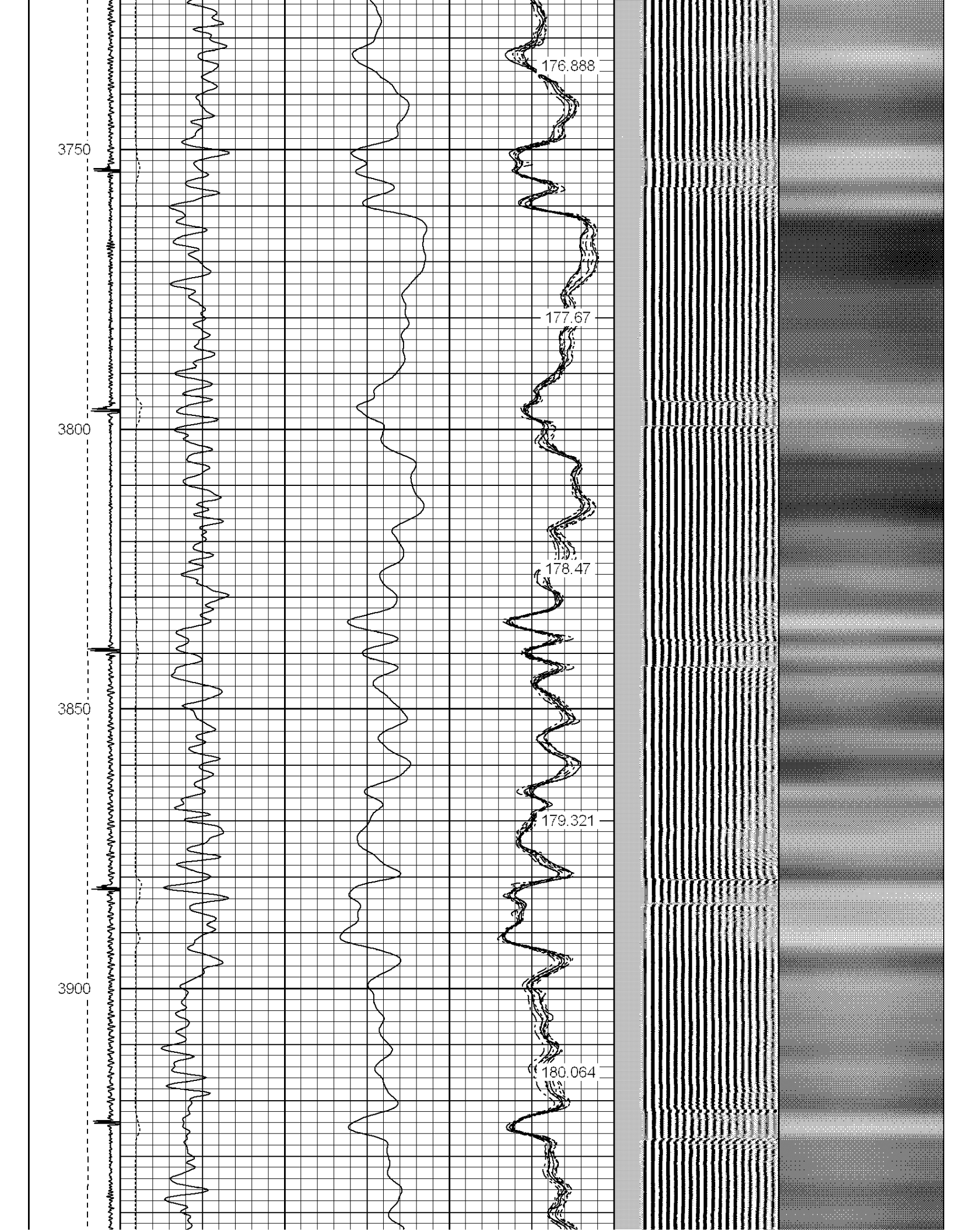
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177.67

178.47

179.321

180.064



3950

4000

4050

4100

4150

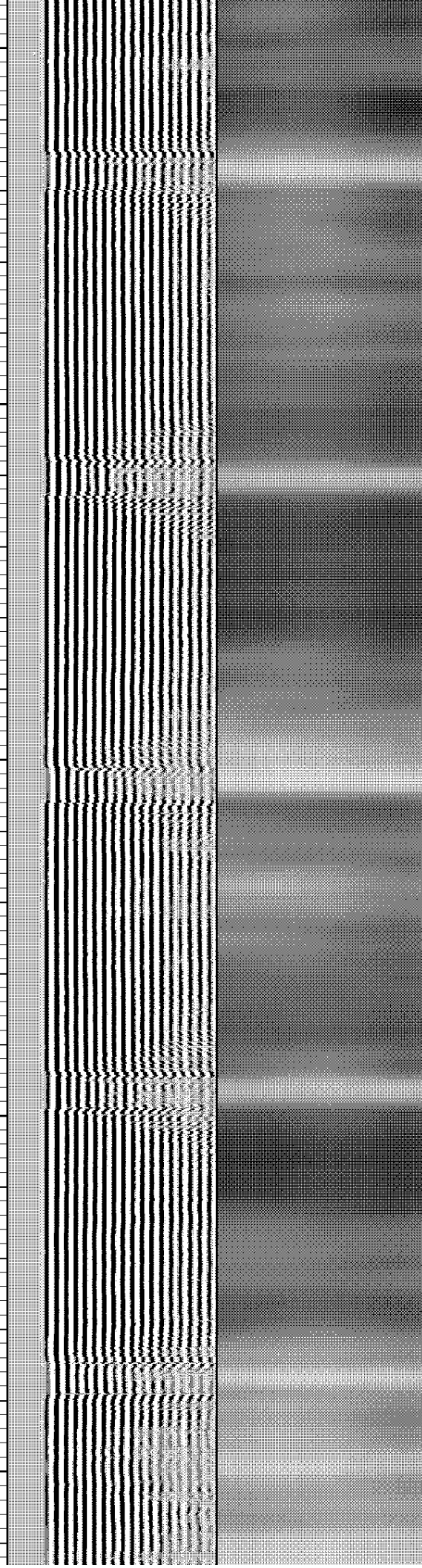
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181.643

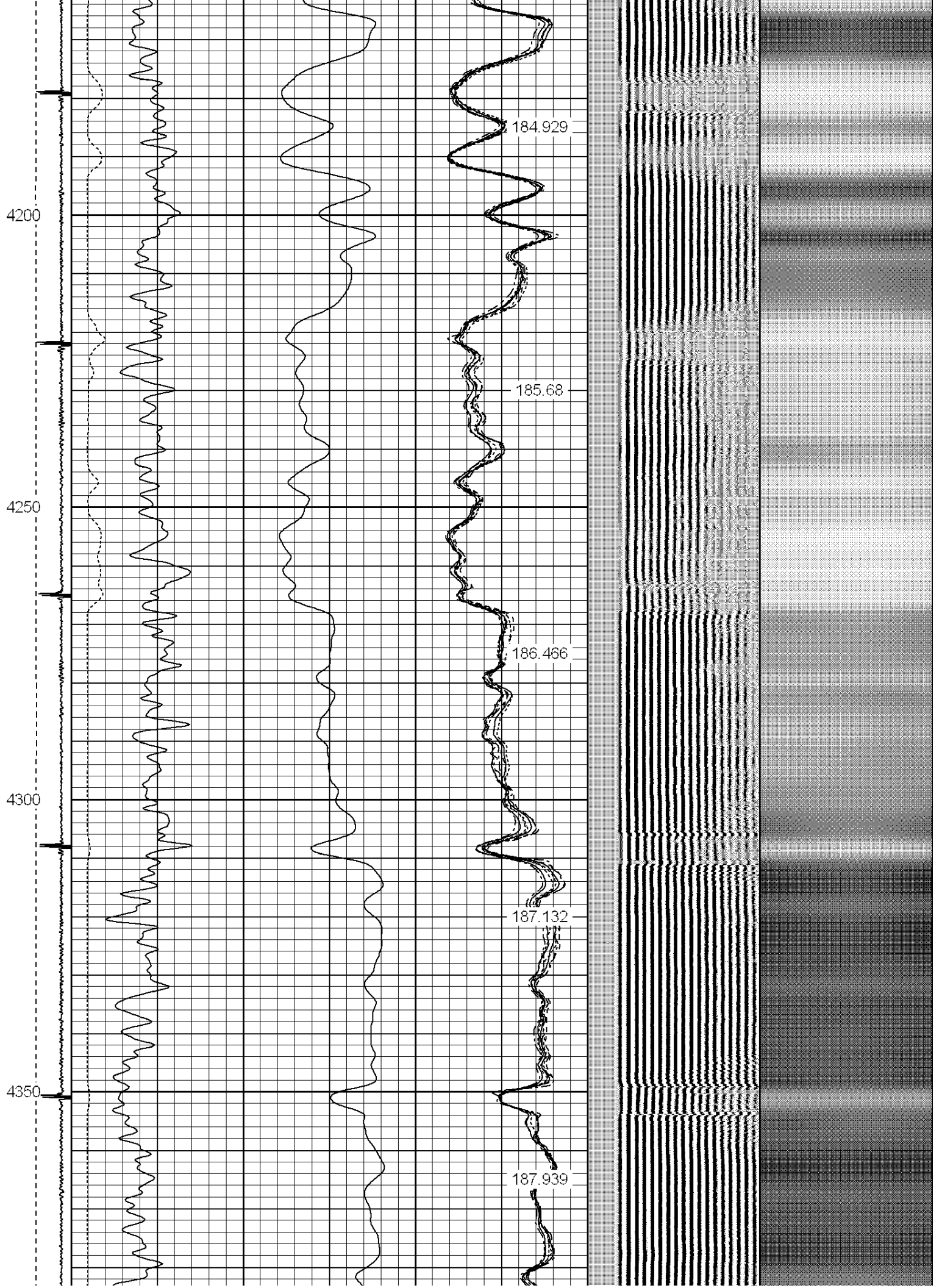
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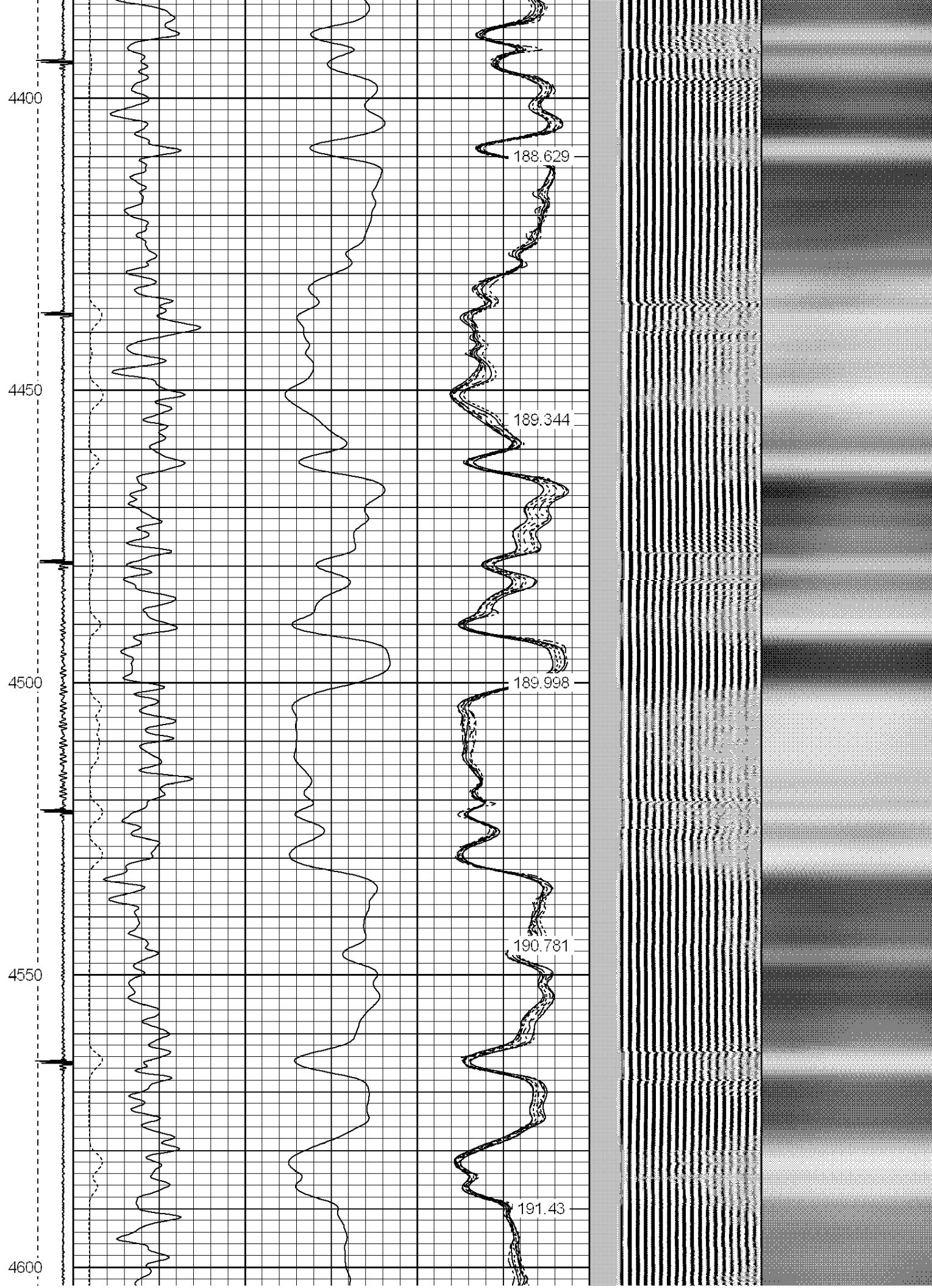
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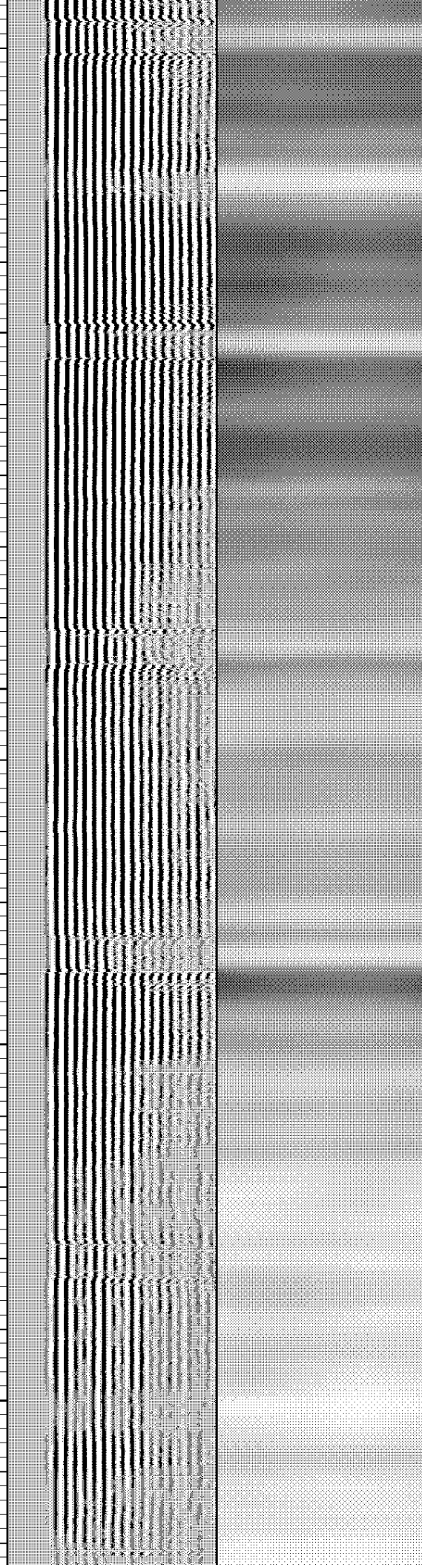
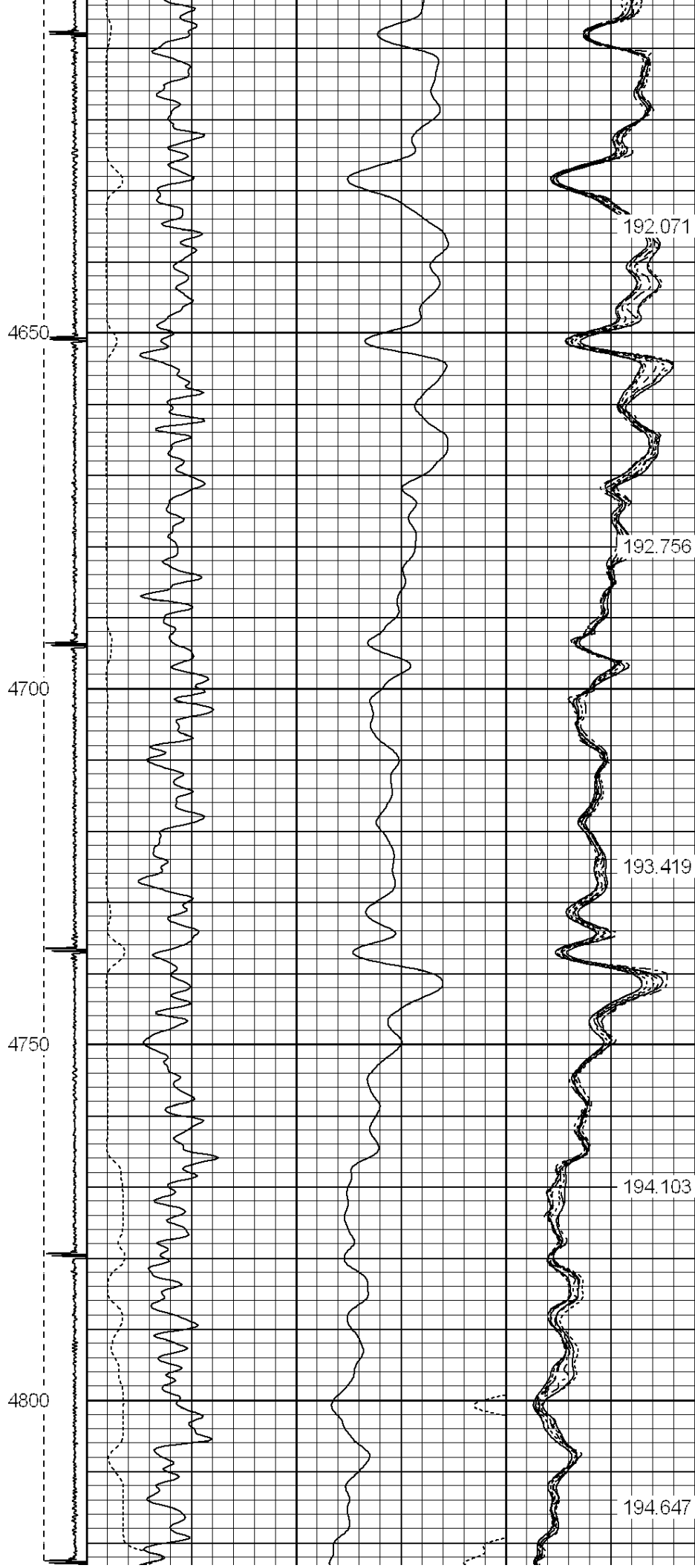
184.027













4850

4900

4950

5000

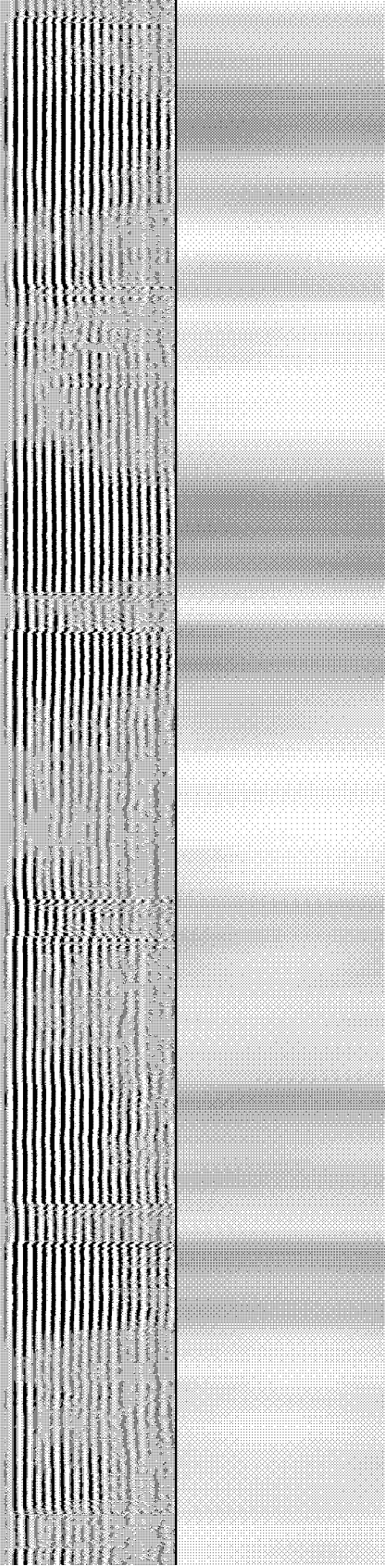
195.306

195.883

196.617

197.227

197.816



5050

5100

5150

5200

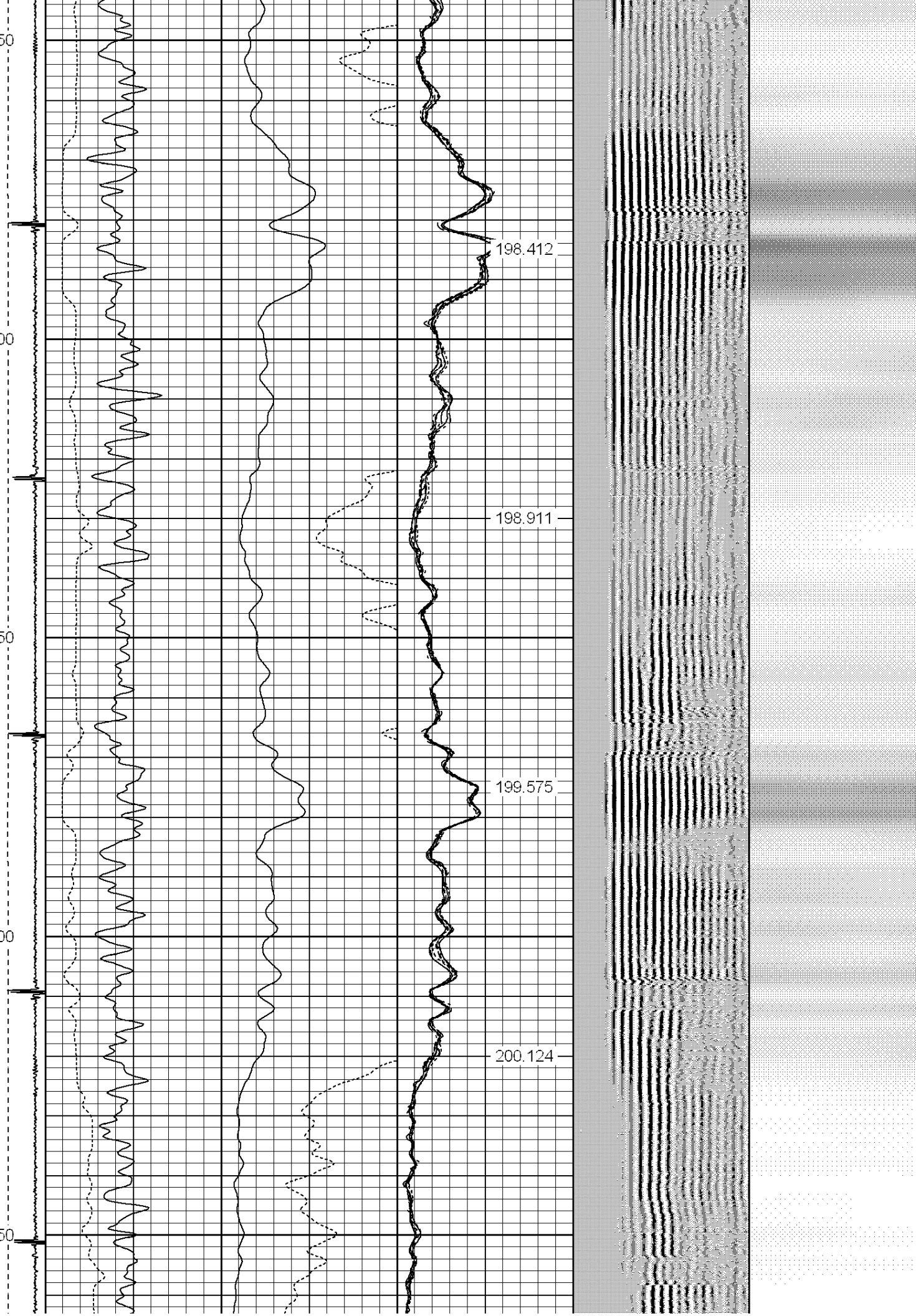
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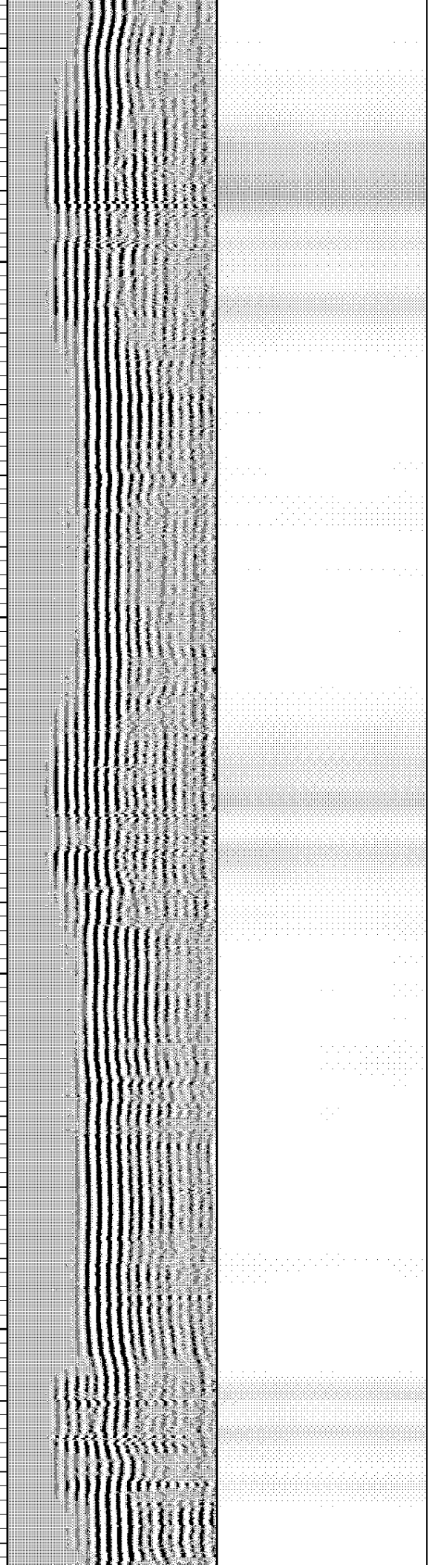
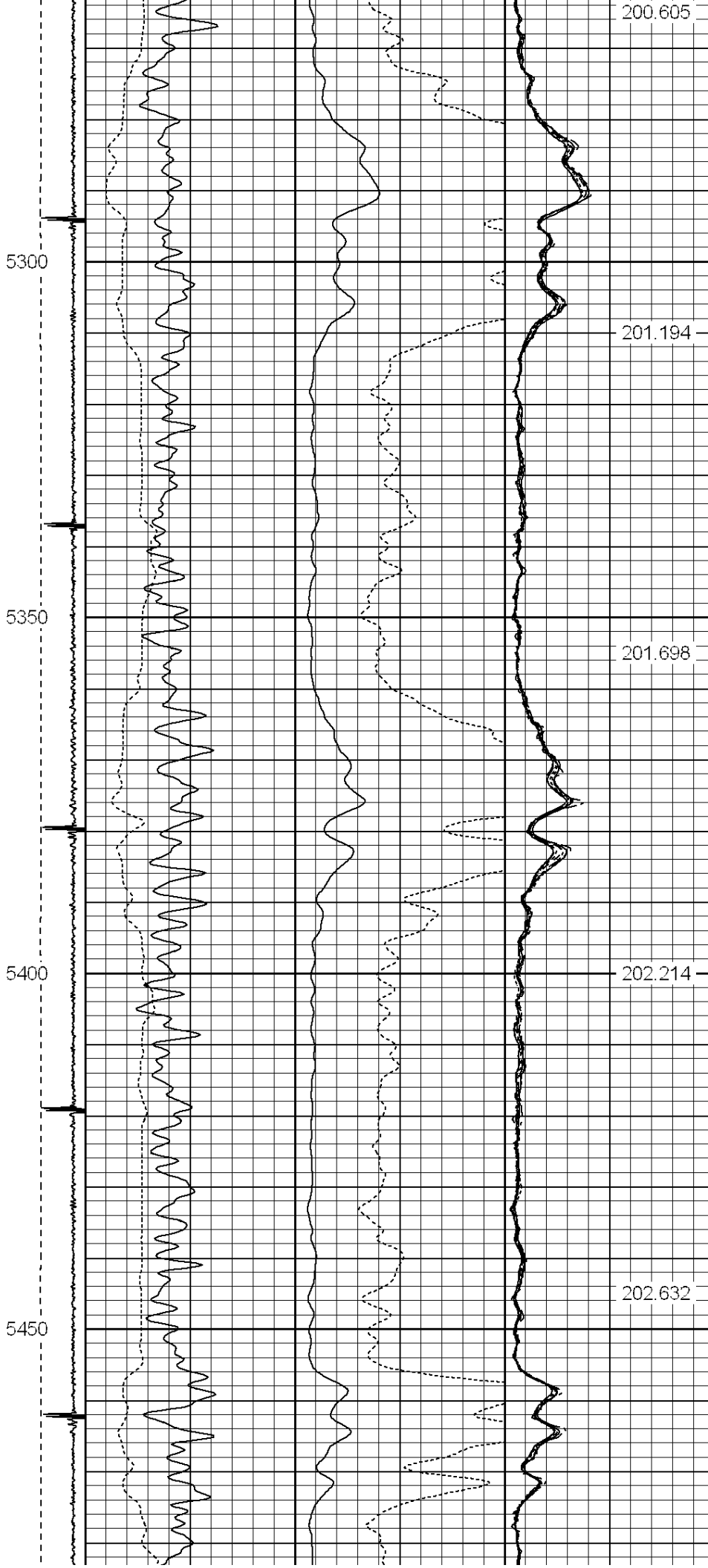
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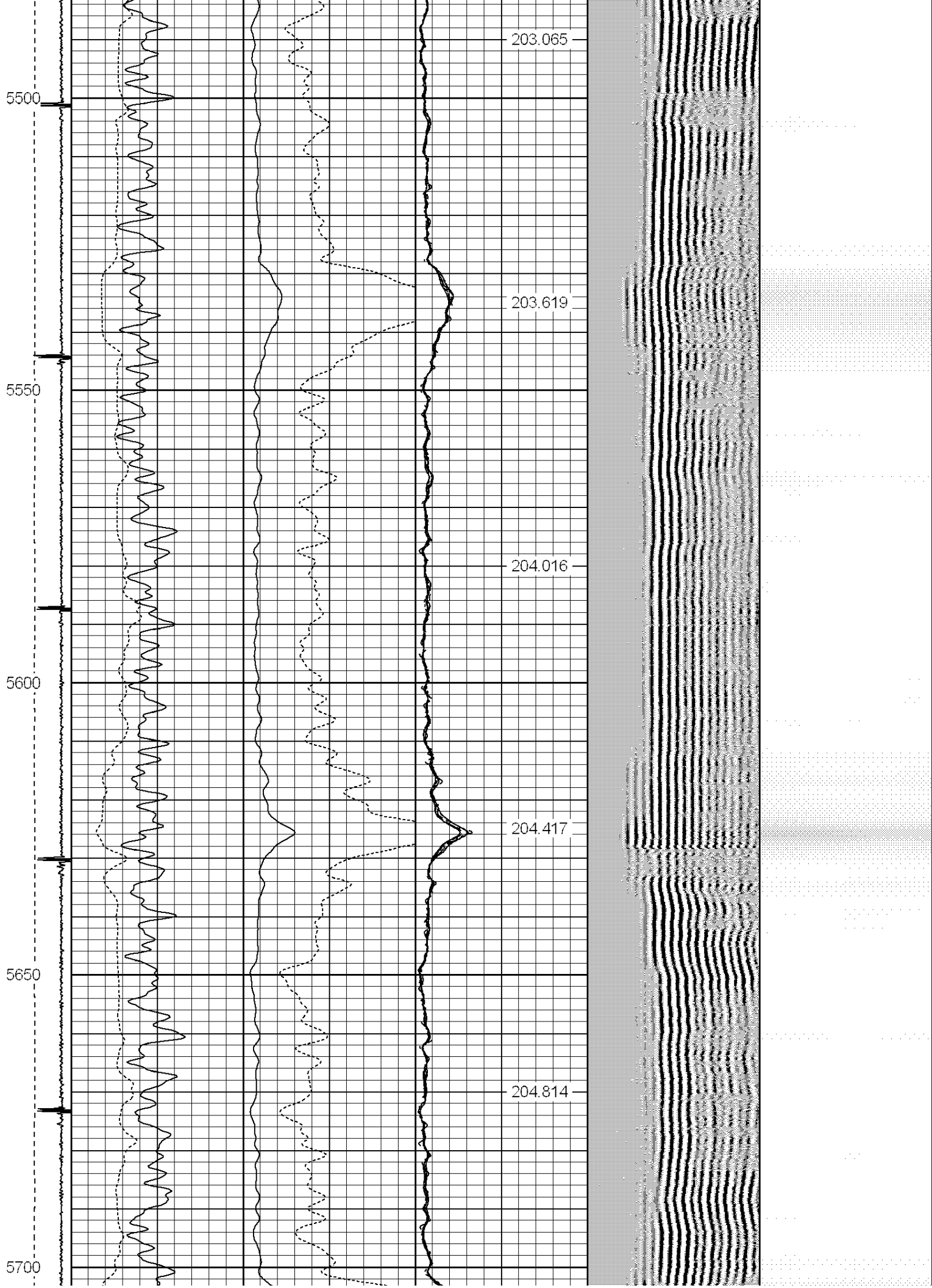
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199.575

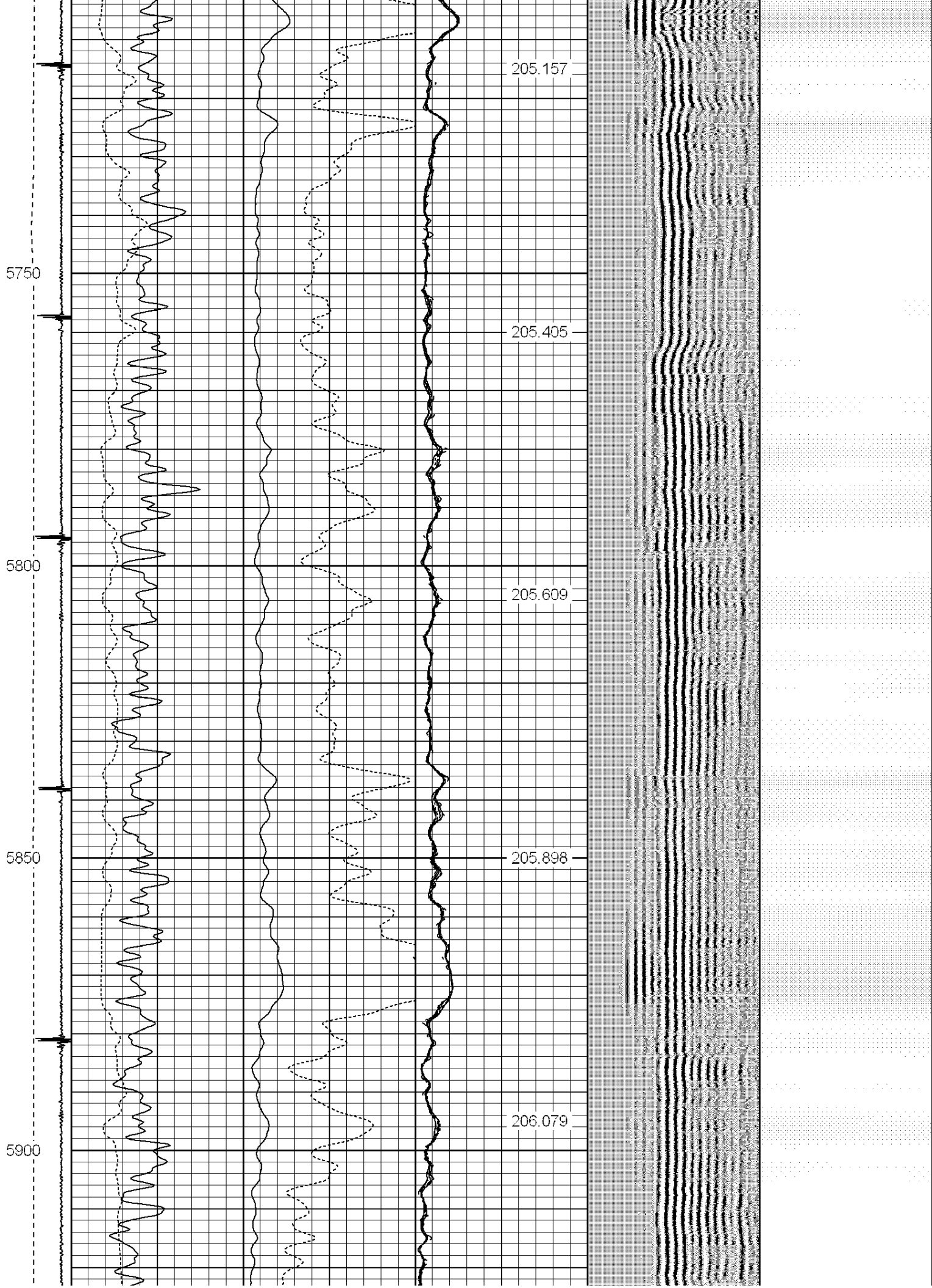
200.124











5950

6000

6050

6100

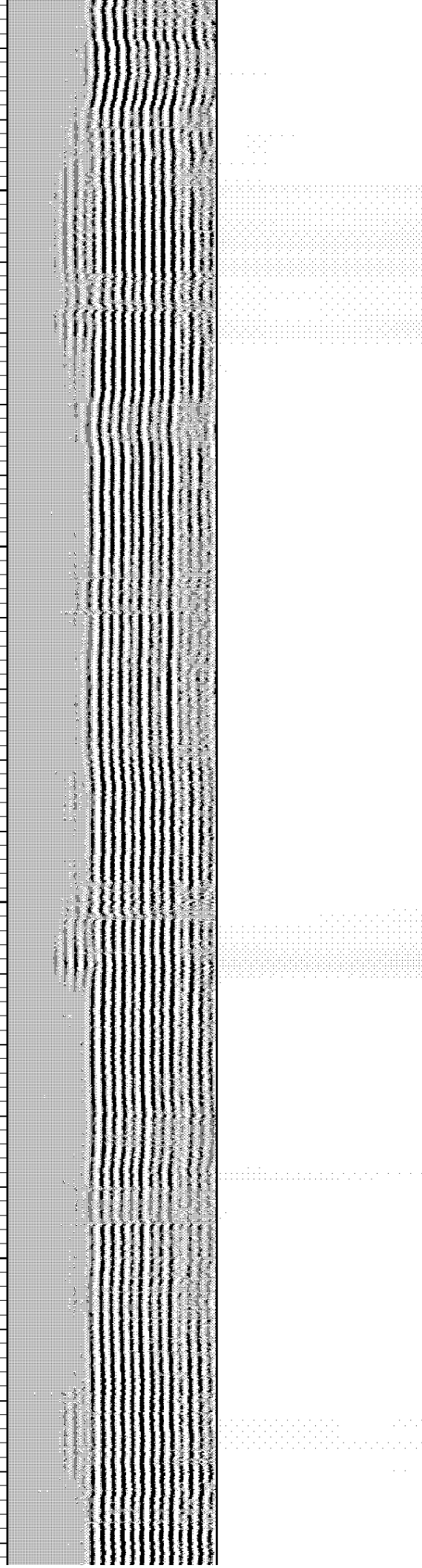
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206.306

206.244

206.204

206.123



6150

206.073

6200

205.865

6250

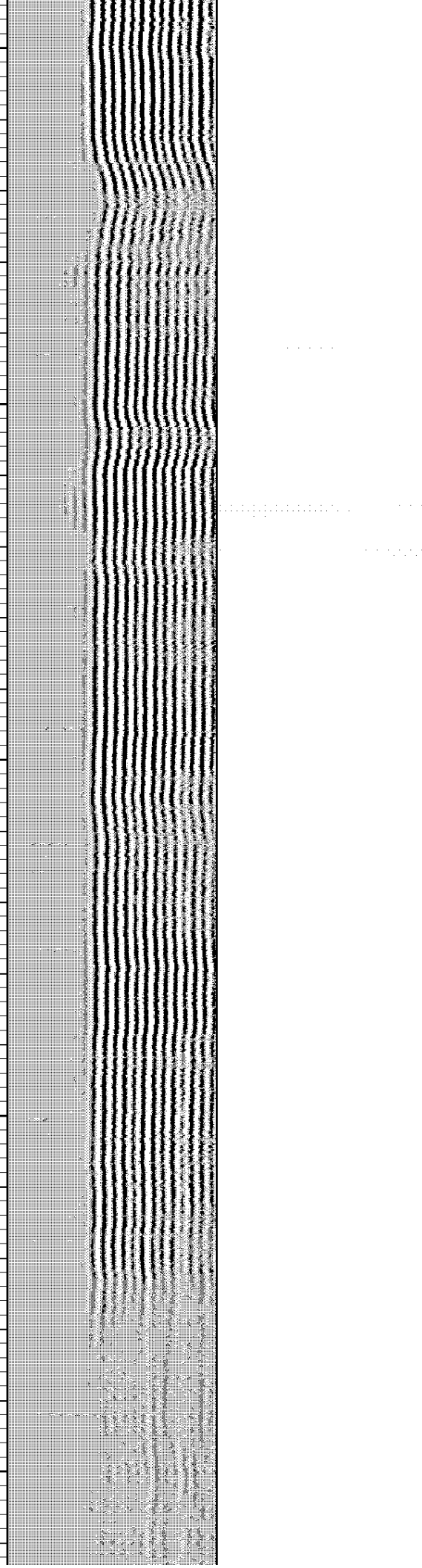
205.704

6300

205.554

6350

205.067



6400

6450

6500

6550

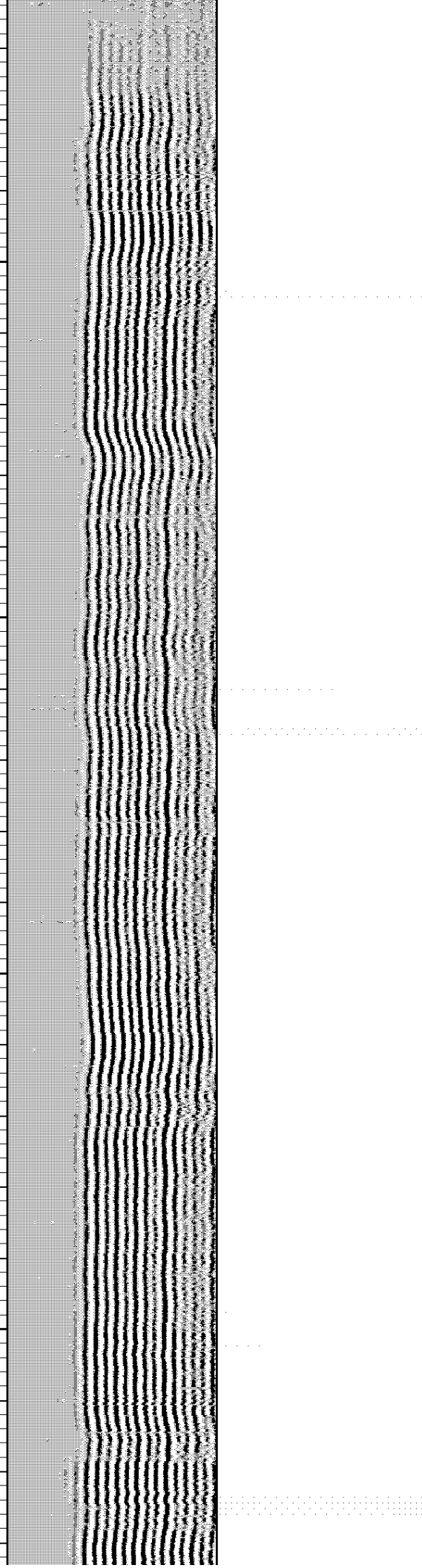
204.562

204.056

203.417

202.596

201.799



6600

200.84

6650

199.838

6700

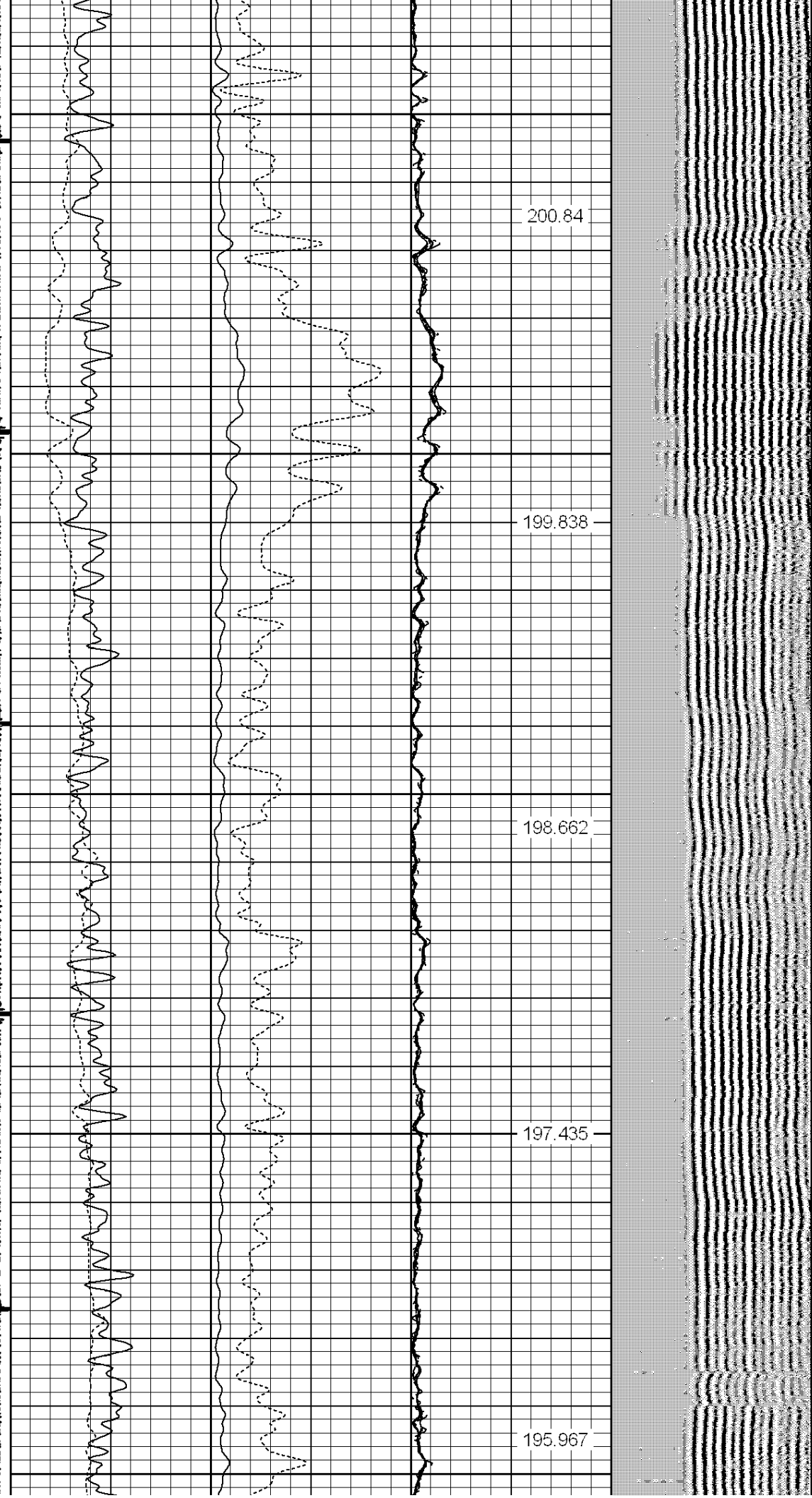
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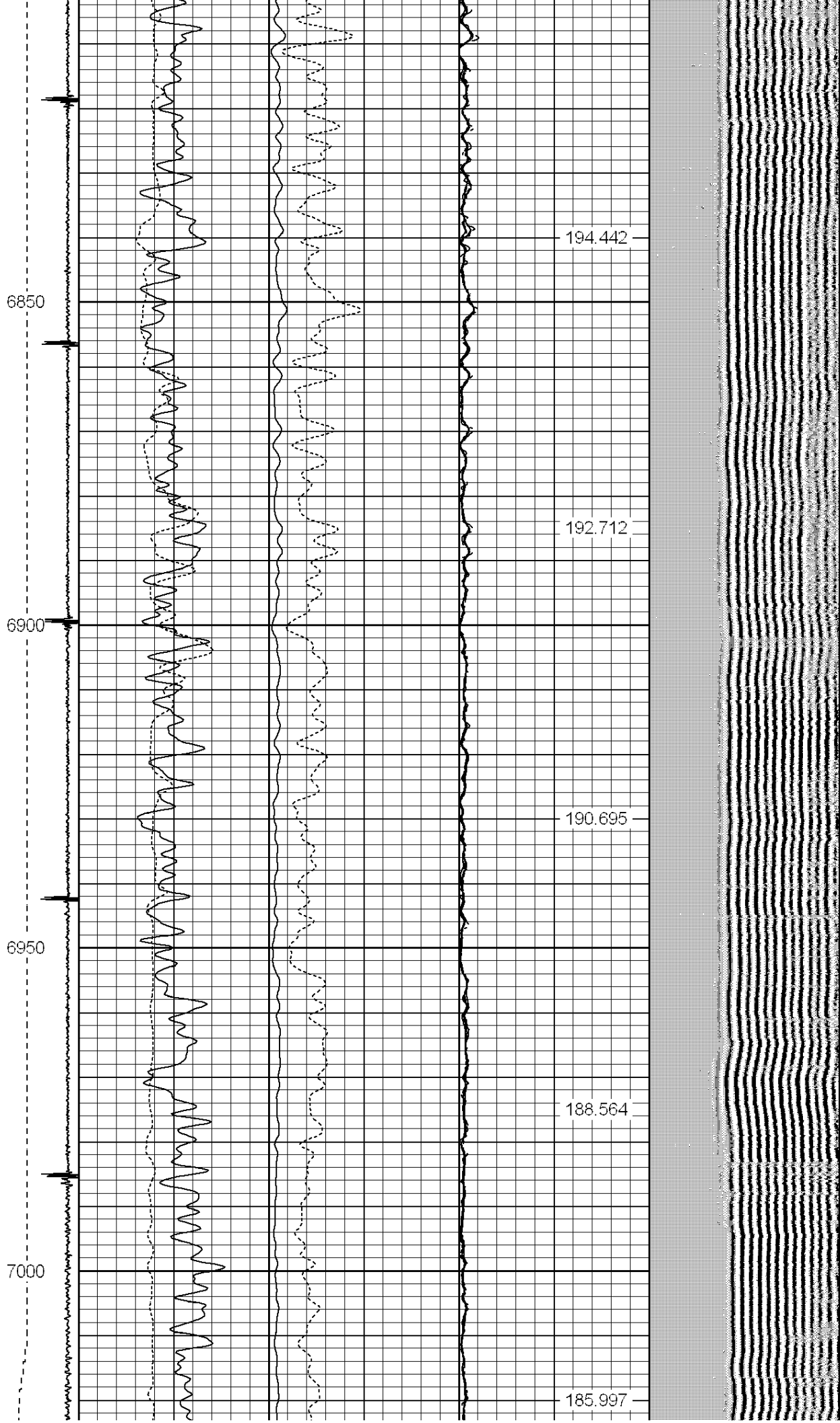
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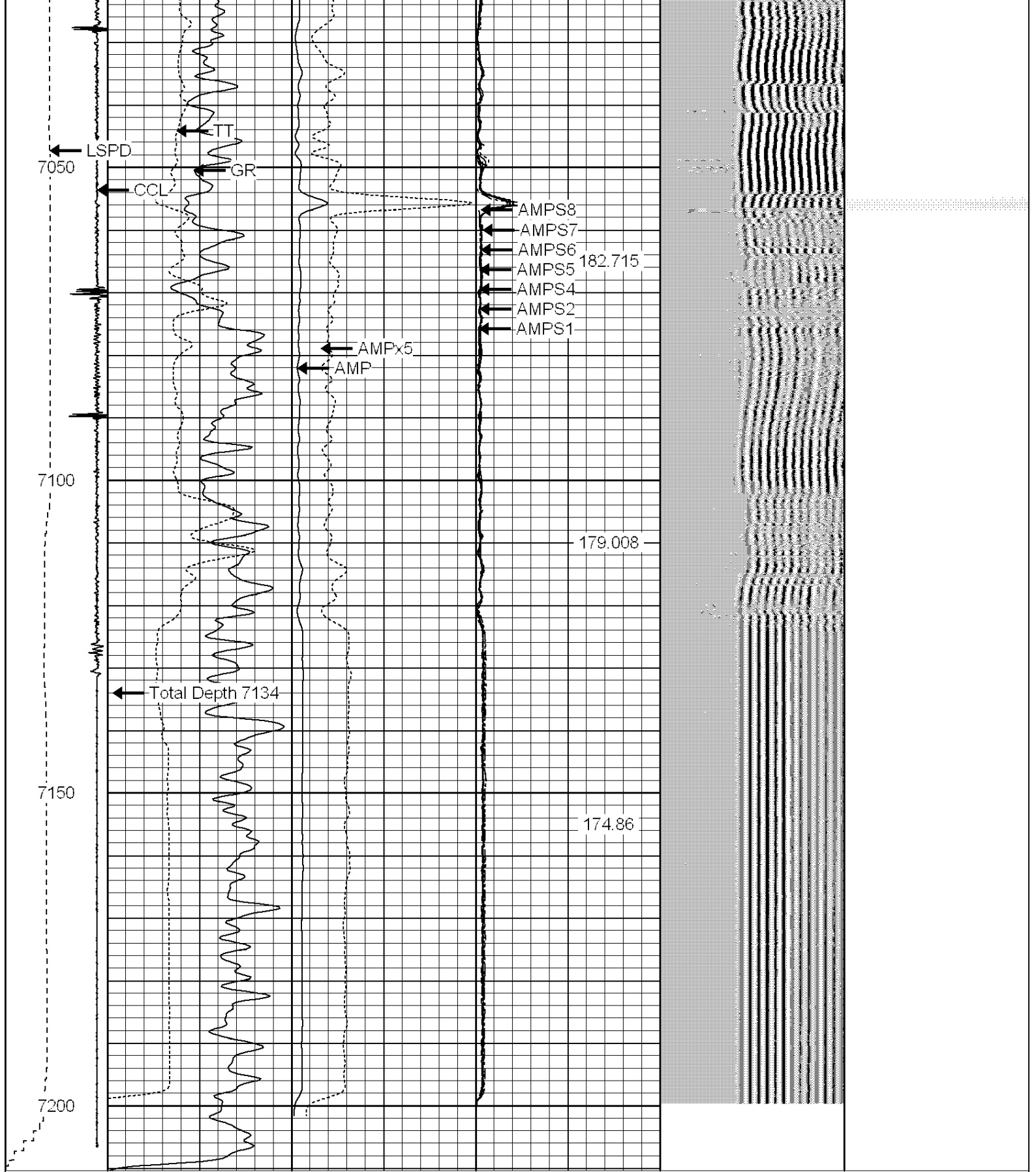
197.435

6800

195.967



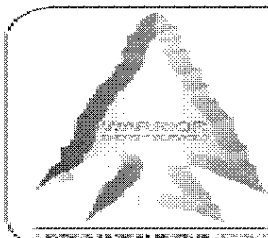




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(ft/min)	200	GR (GAPI)	400					0	AMPS4	100						
0	250							0	AMPS5	100						
								0	AMPS6	100						
								0	AMPS7	100						
								0	AMPS8	100						



IntTemp  
(degF)



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