



Radial Cement Bond
Gamma Ray
CCL

Company	Bill Barrett Corporation		
Well	70 Ranch 04-63-4841CH		
Field	Wattenberg		
County	Weld		
State	Colorado		
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Field	Wattenberg		
County	Weld		
State	Colorado		
Location:	API # : 05-123-37993		
1973' FSL & 234' FWL			
Permanent Datum	GL	Elevation	4559
Log Measured From	KB 23	Elevation	4583
Drilling Measured From	GL	Elevation	4559

Date	2-25-2014
Run Number	1
Depth Driller	10879
Depth Logger	5950
Bottom Logged Interval	5948
Top Log Interval	Surface
Open Hole Size	8.875
Type Fluid	Water
Density / Viscosity	1.0
Max. Recorded Temp.	220
Estimated Cement Top	690
Time Well Ready	
Time Logger on Bottom	
Equipment Number	4740
Location	Greeley
Recorded By	Jeremiah Bullard
Witnessed By	Johnny Dawran

Run Number	Bit	From	To	Size	Weight	From	To
One	12.25	0	823				
Two	8.75	823	6524				
Three	6.185	6524	10889				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.875	36#	0	823
Prot. String				
Production String	7	26#	0	6524
Liner	4.5		6524	10889

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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

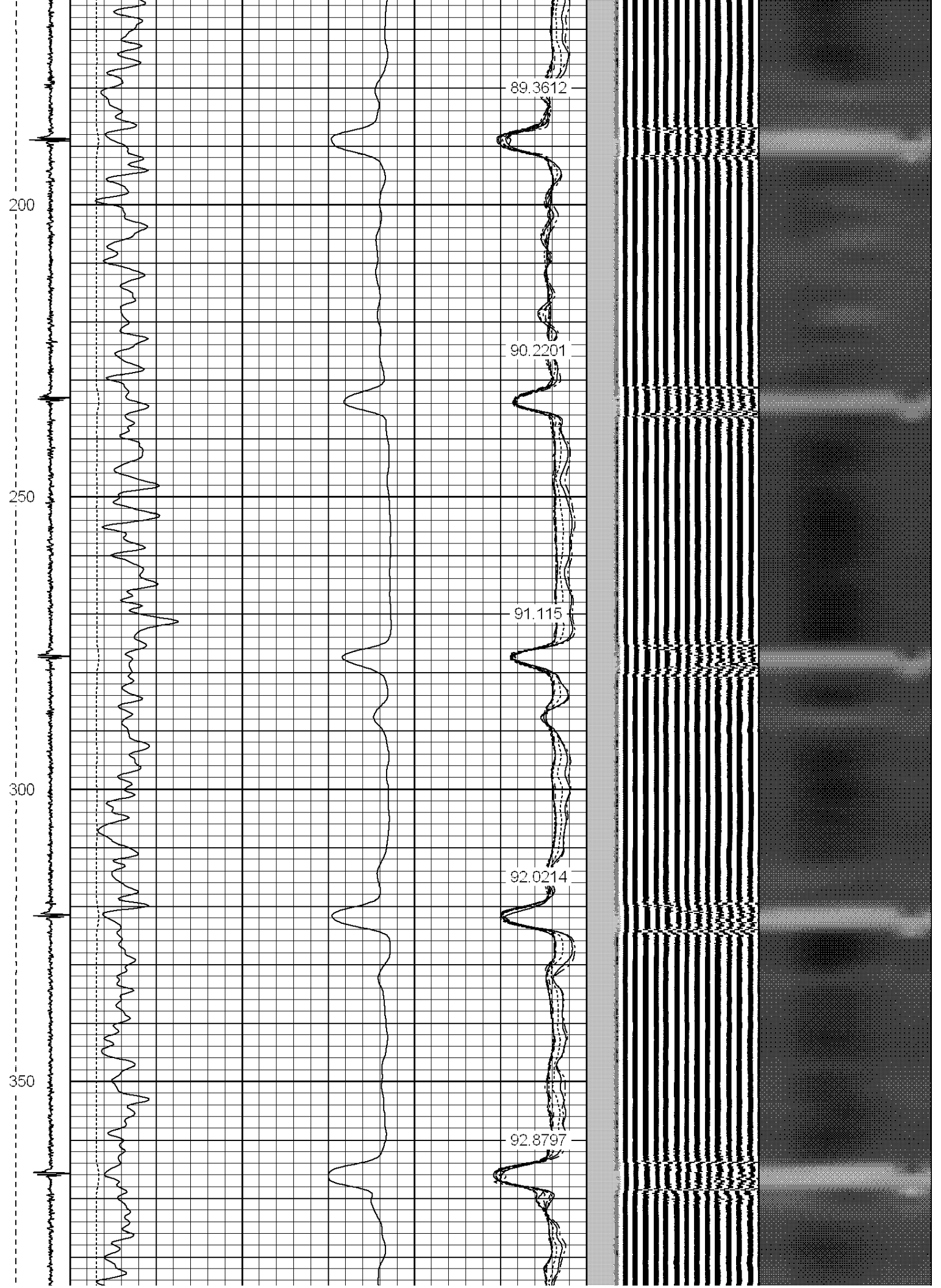
Ran CBL to verify cement
correlated to pipe tally and liner top

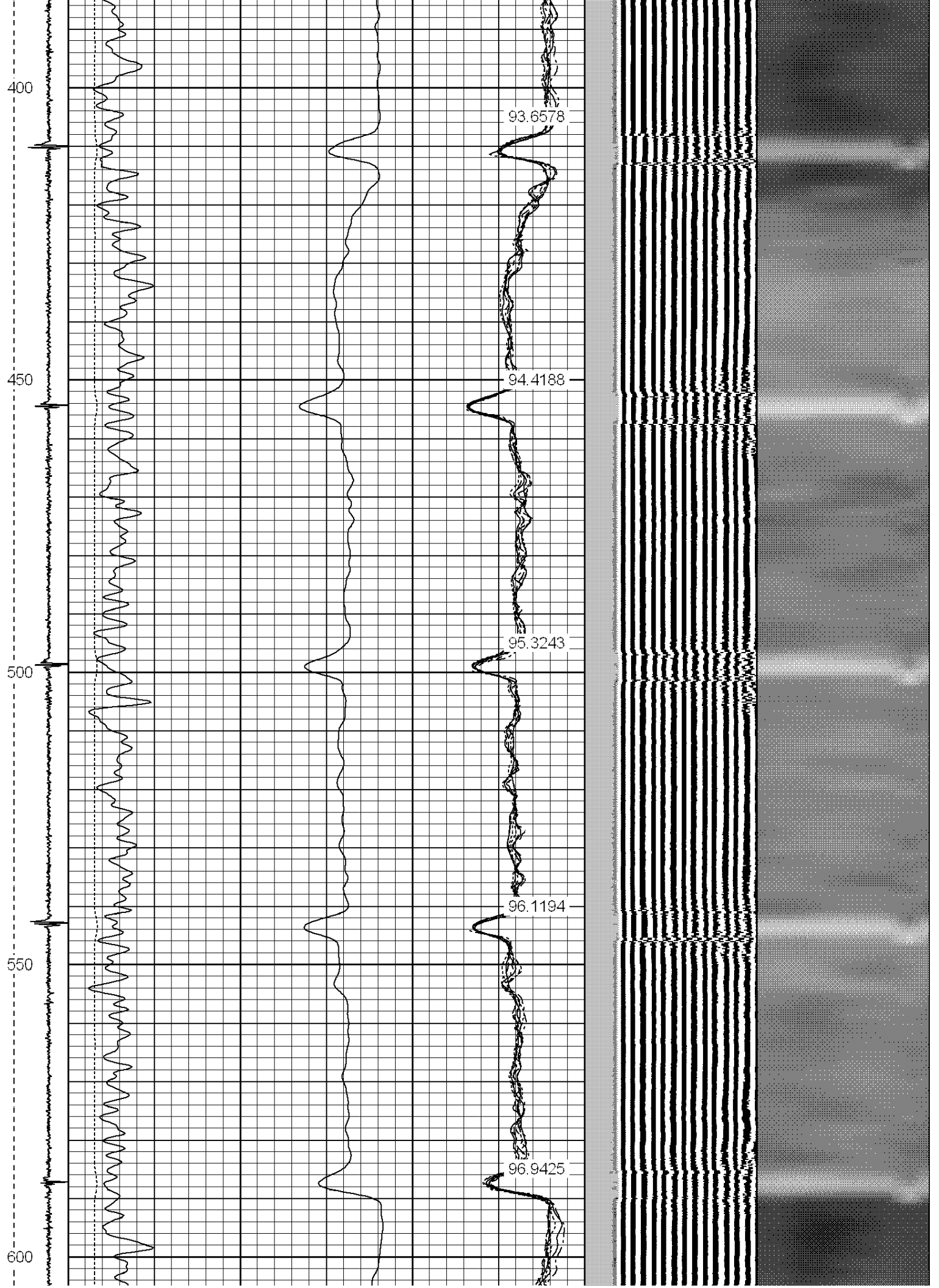
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
						

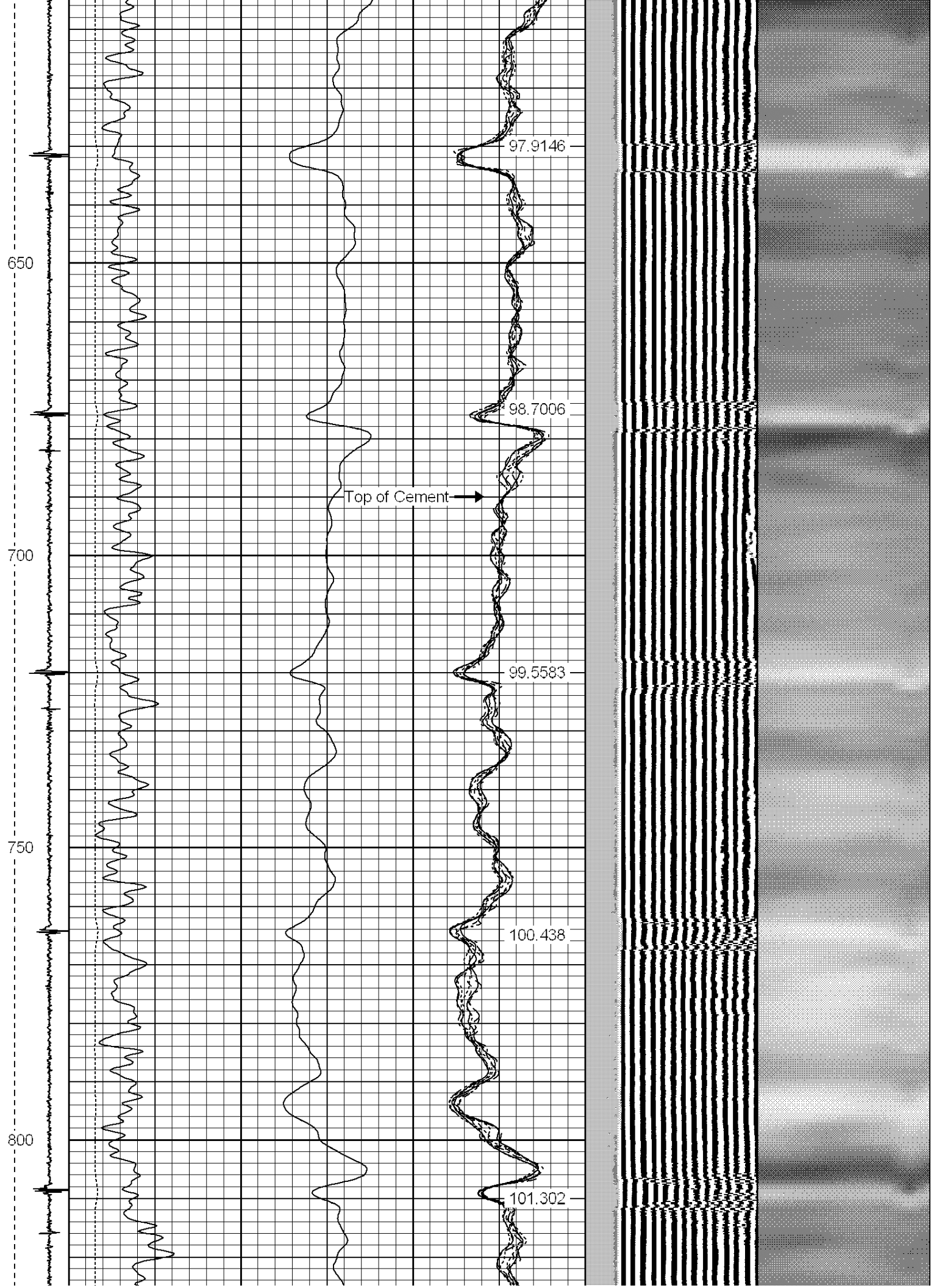
			PTS275	2.83	2.75	
HEADVOLT	16.08					
IntTemp	14.66					
WVF3FT	11.41					
WVFCAL	11.41					
WVFS1	11.41					
WVFS2	11.41					
WVFS3	11.41					
WVFS4	11.41					
WVFS5	11.41					
WVFS6	11.41					
WVFS7	11.41					
WVFS8	11.41					
WVF5FT	10.41					
			RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
CNLSC	6.00					
CNSSC	5.17					
			CNT-Probe_B (275) 6 bow centralizer	2.83	2.75	40.00
CCL	3.64					
			GR-Probe (275) Probe 2.75"	4.33	2.75	30.00
GR	0.90					
Dataset: 70 ranch 4-63-3-4841ch.db: field/well/run1/pass11 Total Length: 18.91 ft Total Weight: 160.00 lb O.D. 2.75 in						

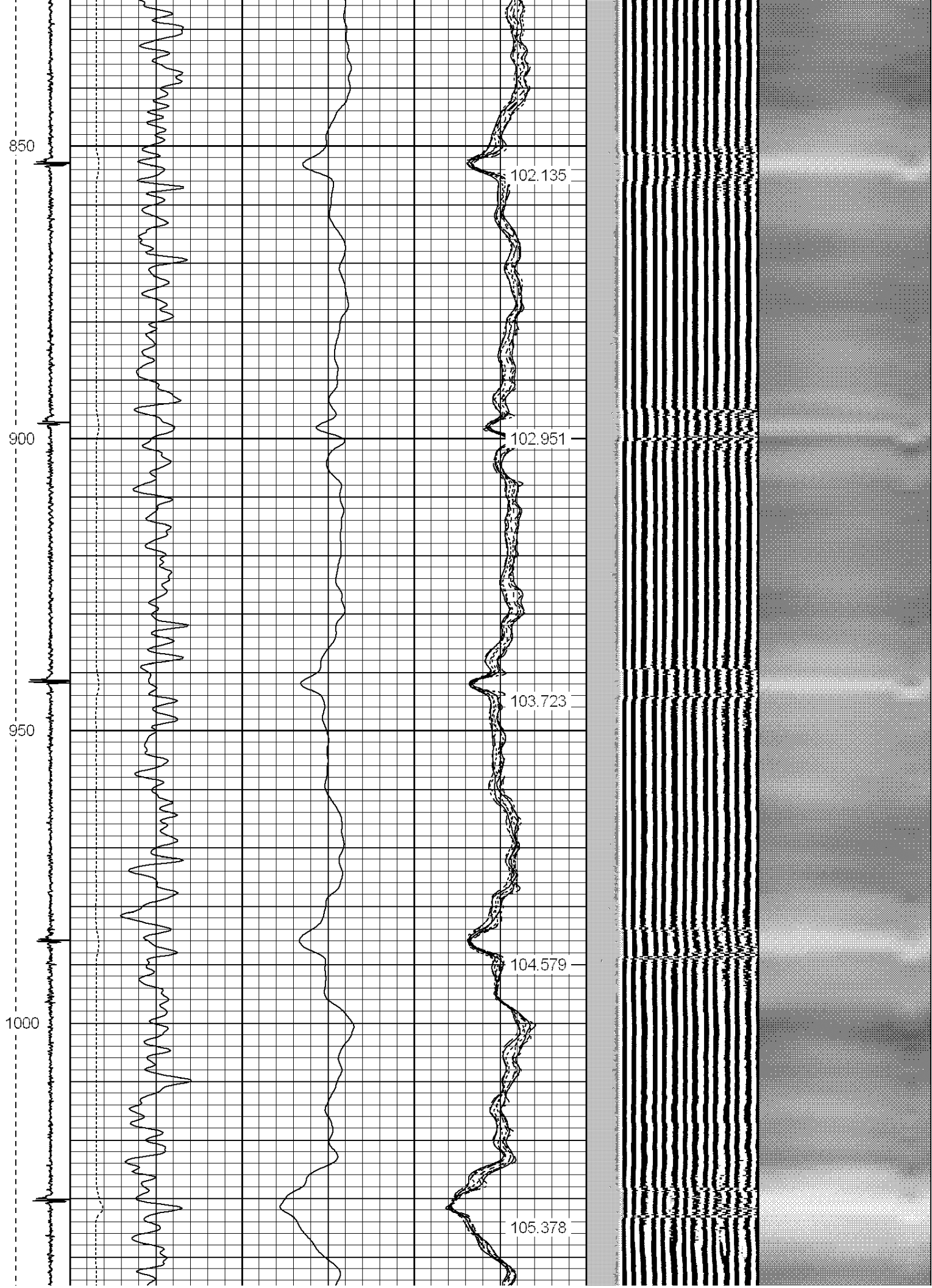
-4	CCL	1	200	TT (usec)	800	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8			
LSPD (ft/min)	0		0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100							1	100	
	200		200	GR (GAPI)	400				0	AMPS4	100									
	0								0	AMPS5	100									
									0	AMPS6	100									
										0	AMPS7	100								
										0	AMPS8	100								
											IntTemp (degF)									











1050

1100

1150

1200

1250

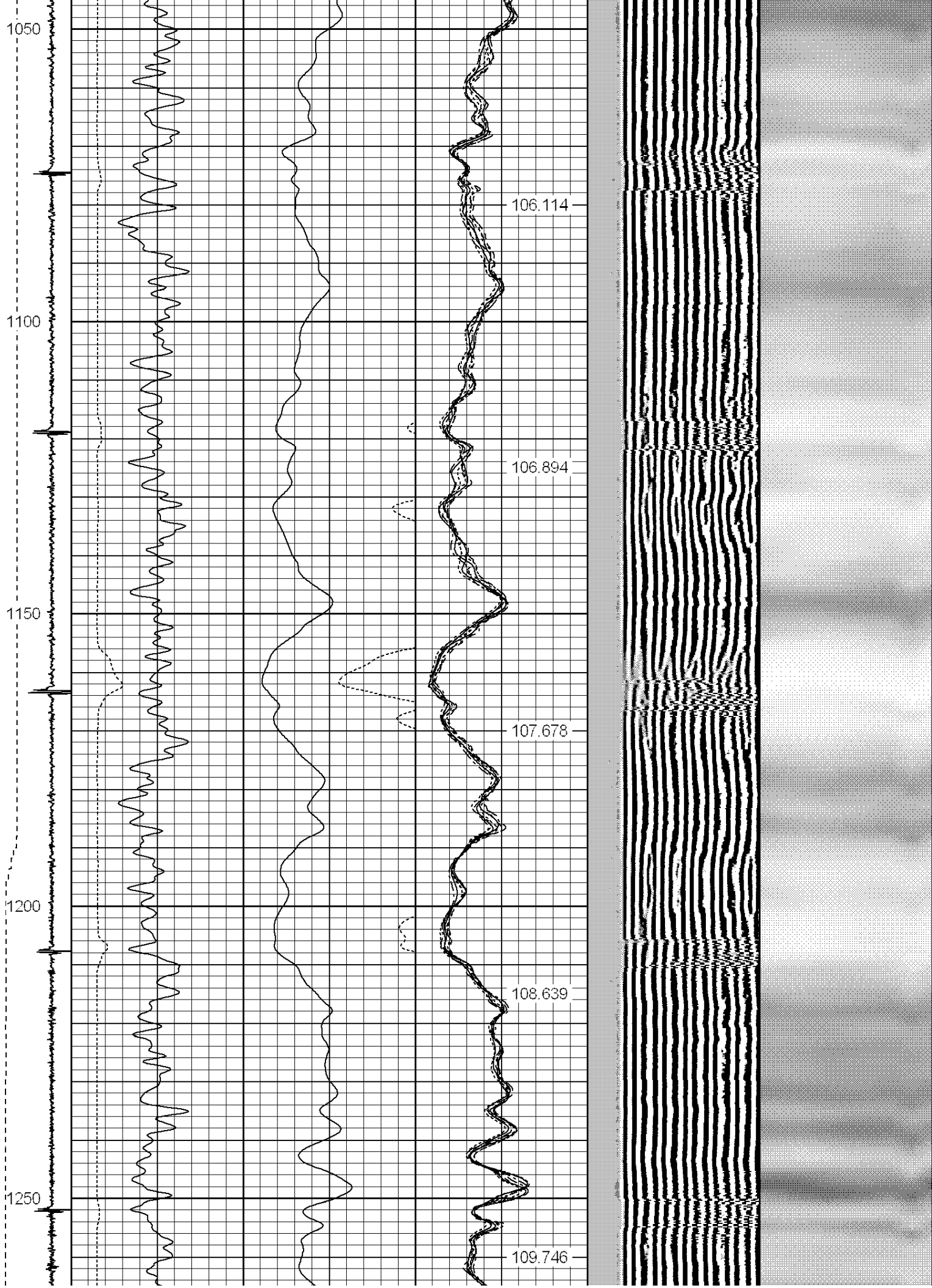
106.114

106.894

107.678

108.639

109.746



1300

1350

1400

1450

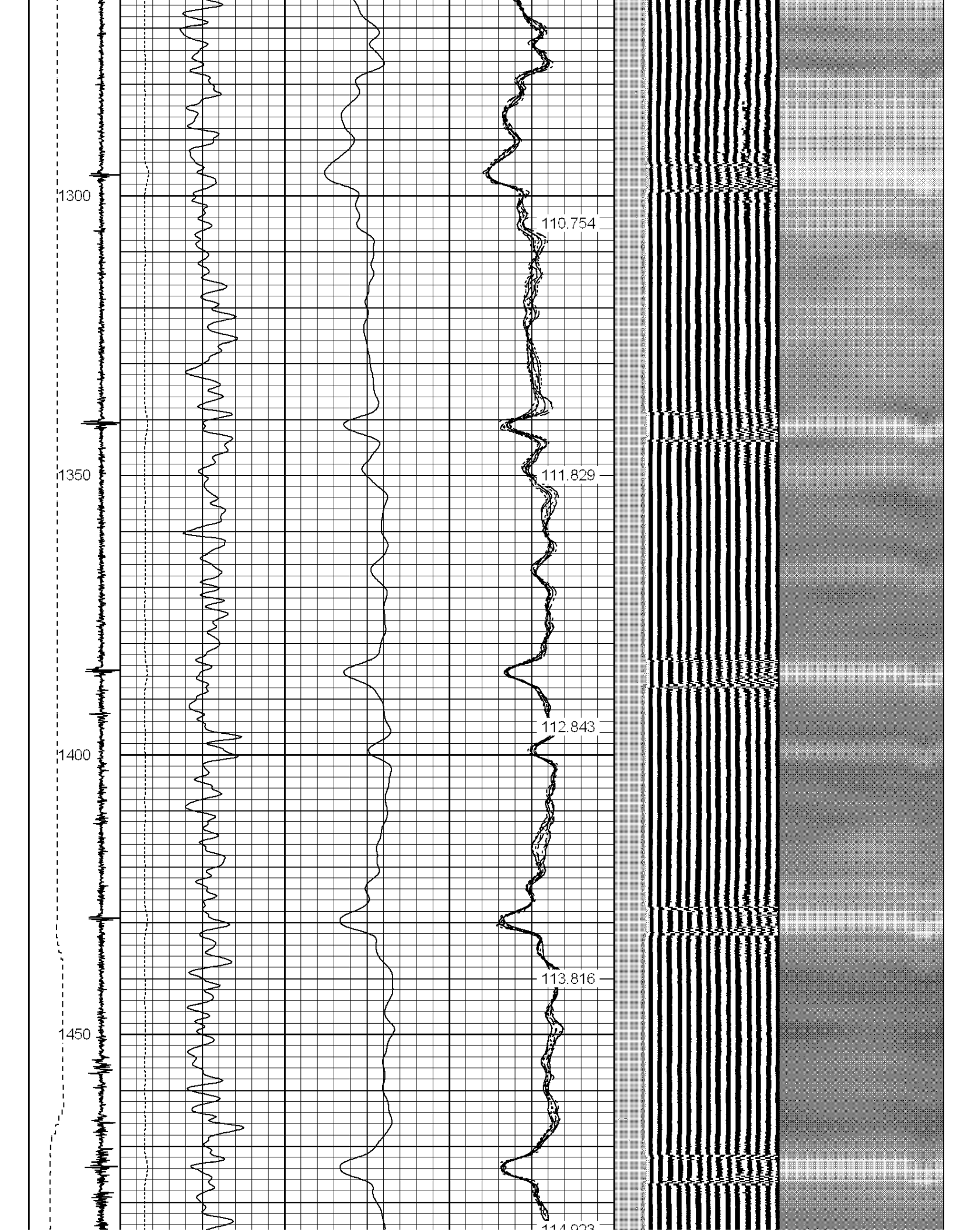
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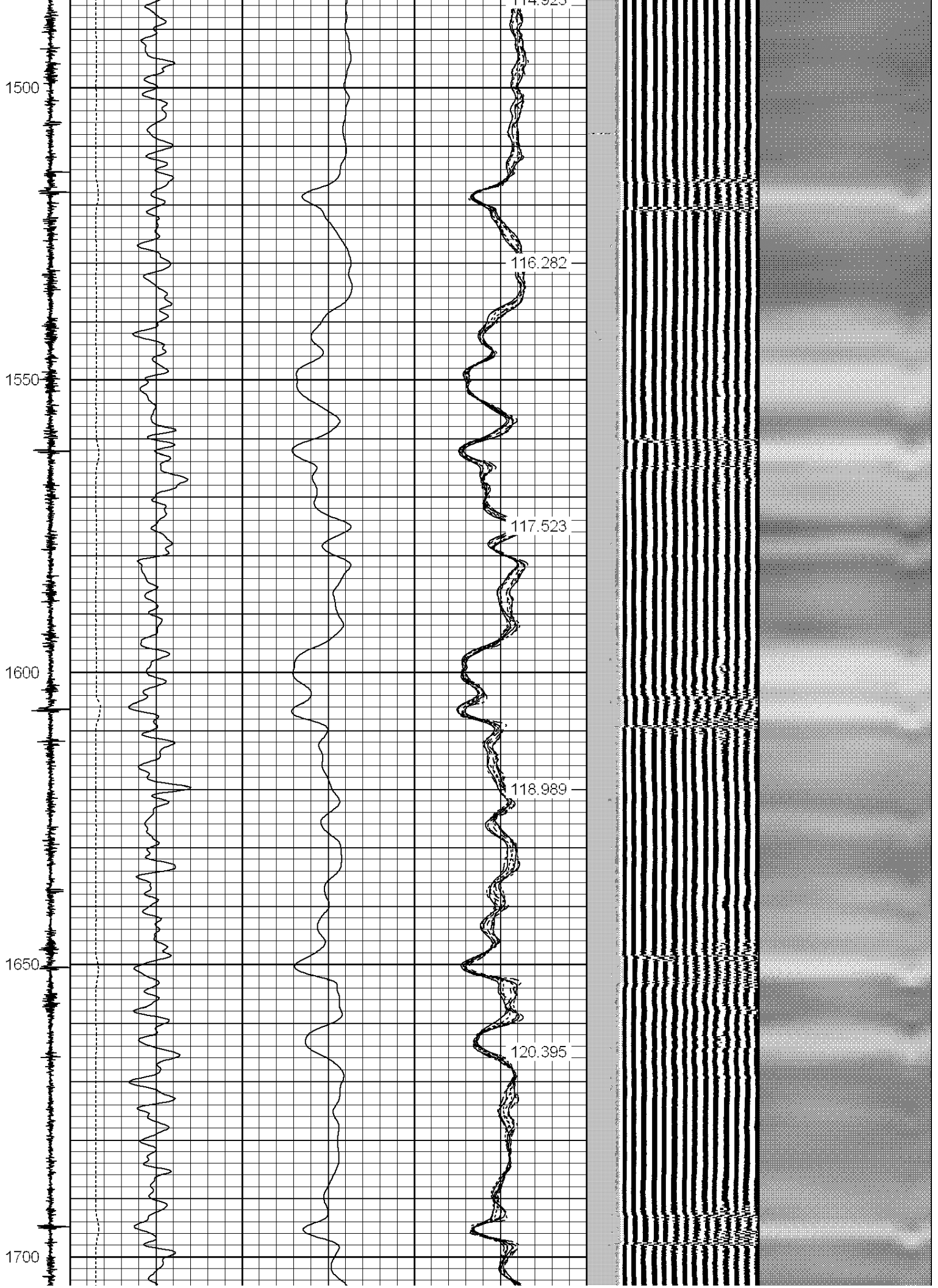
111.829

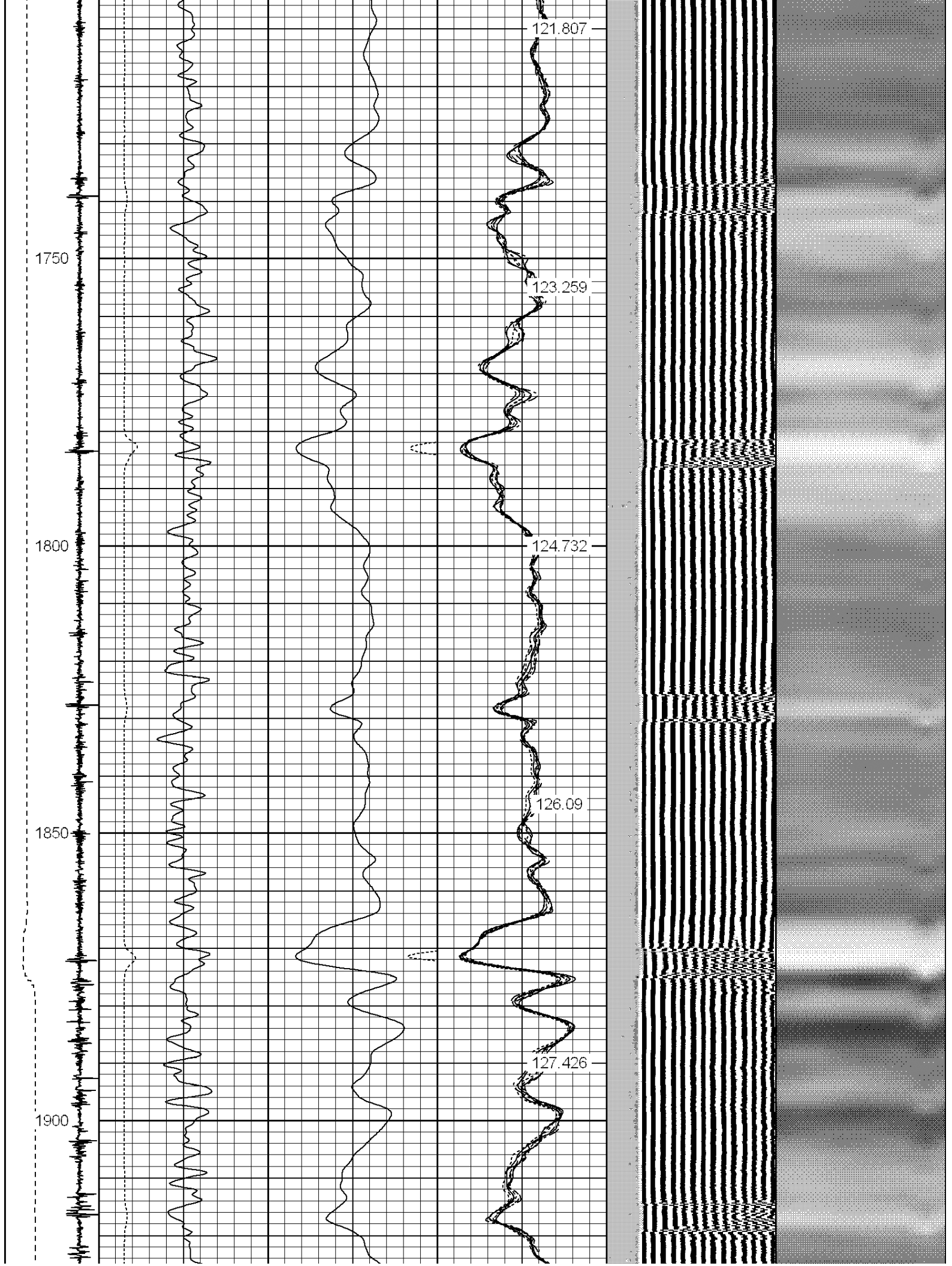
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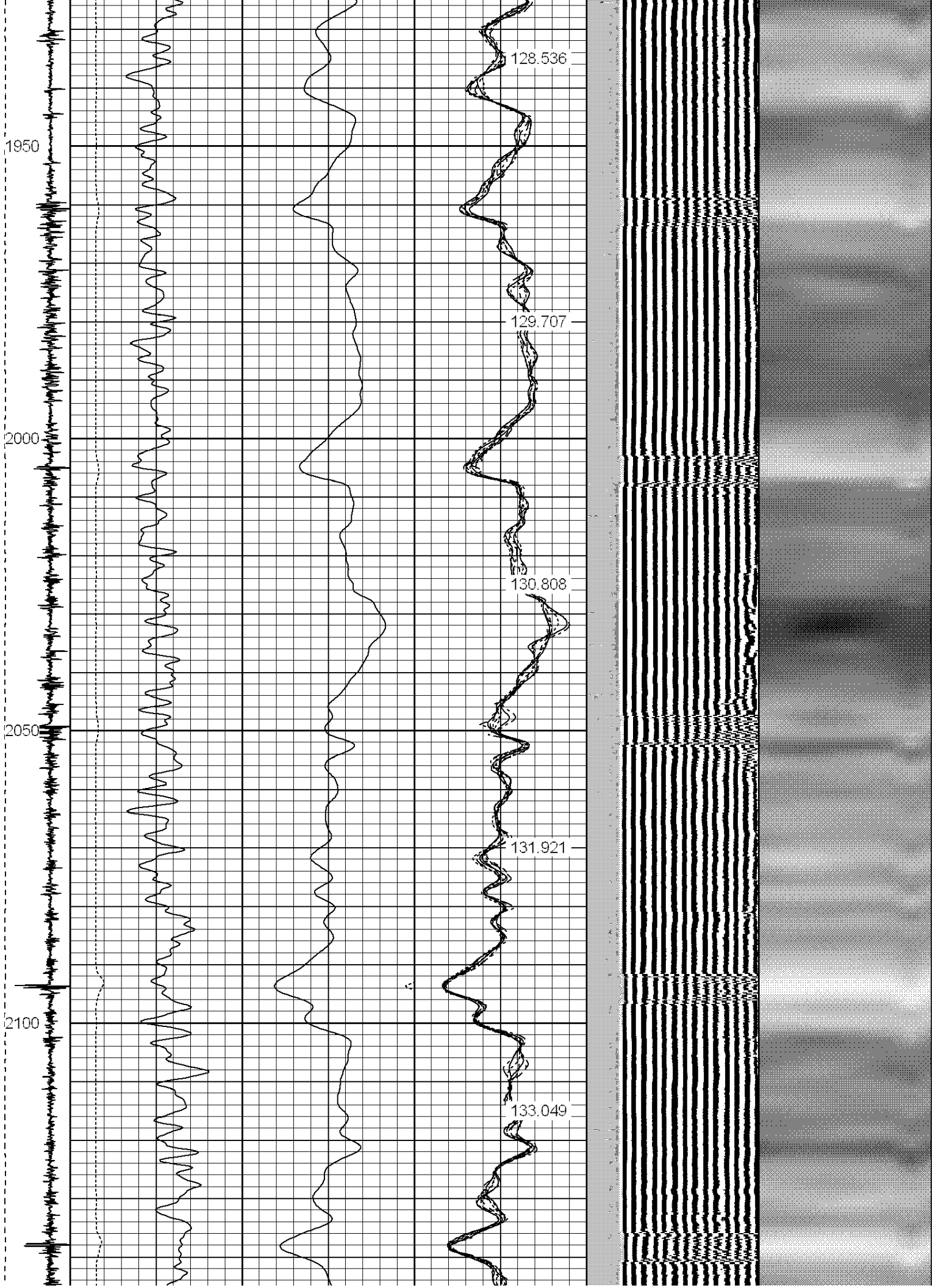
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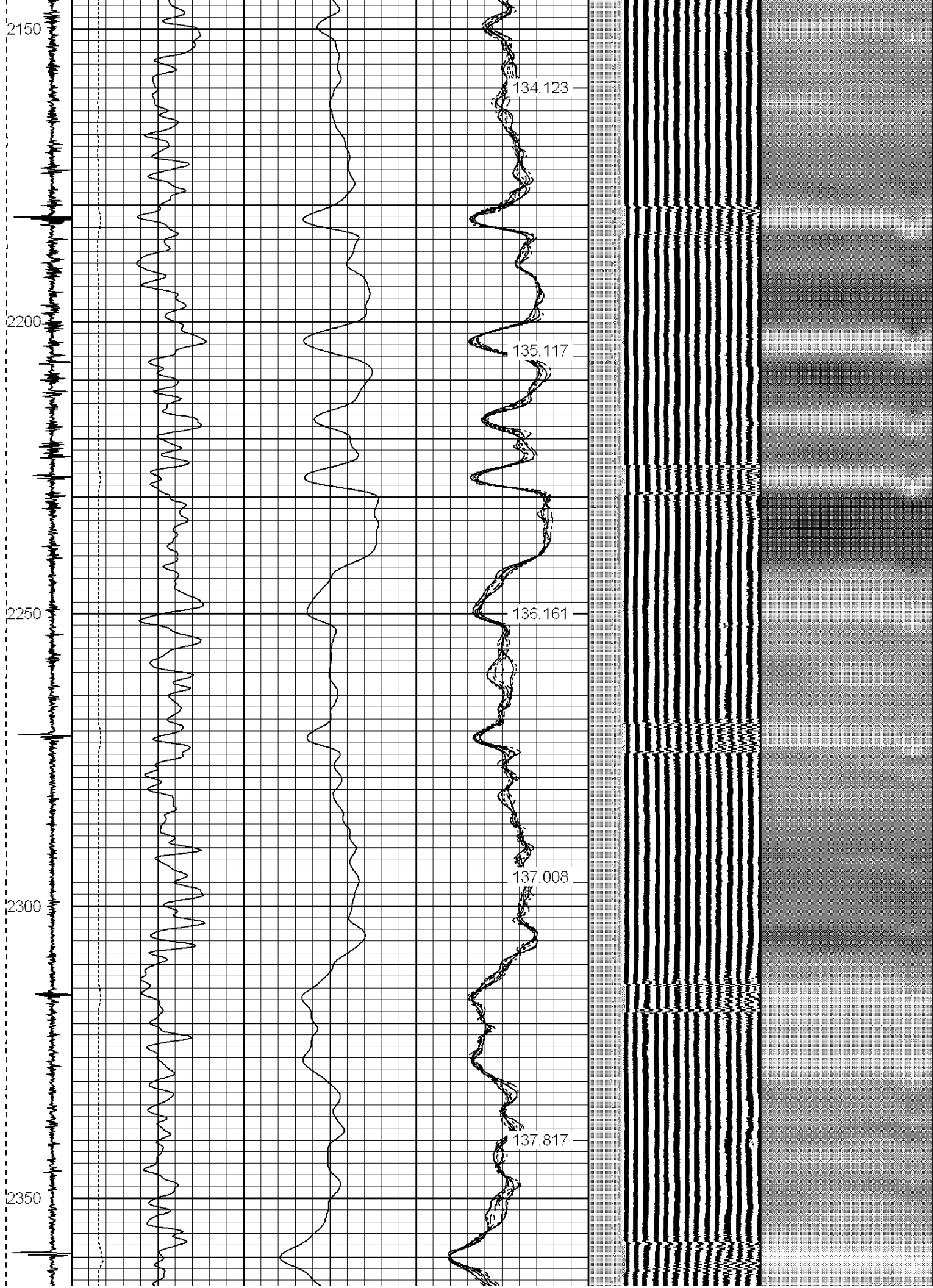
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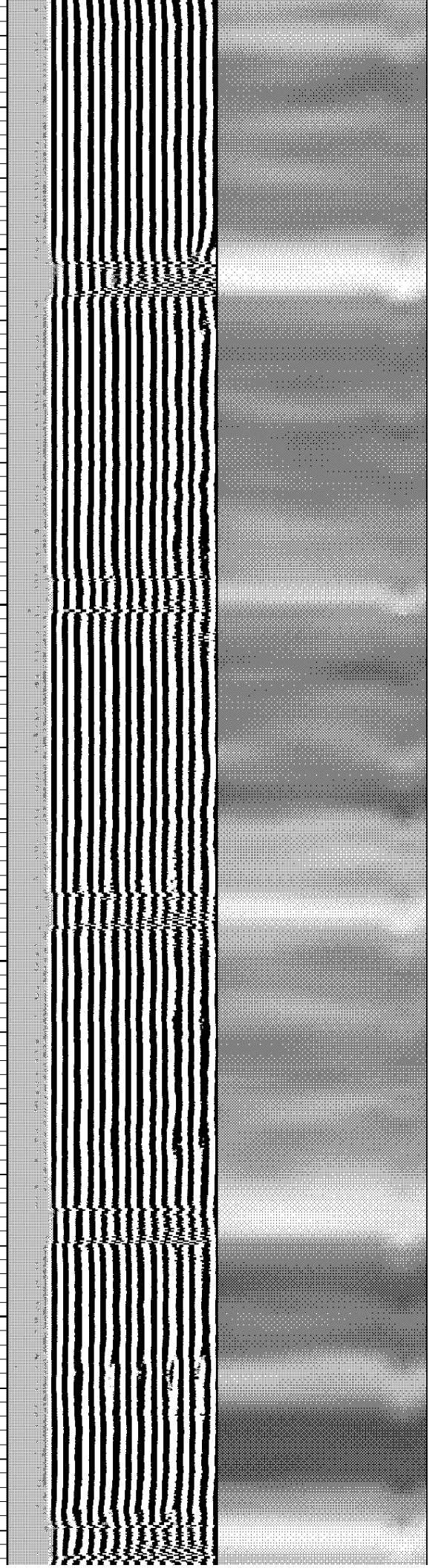
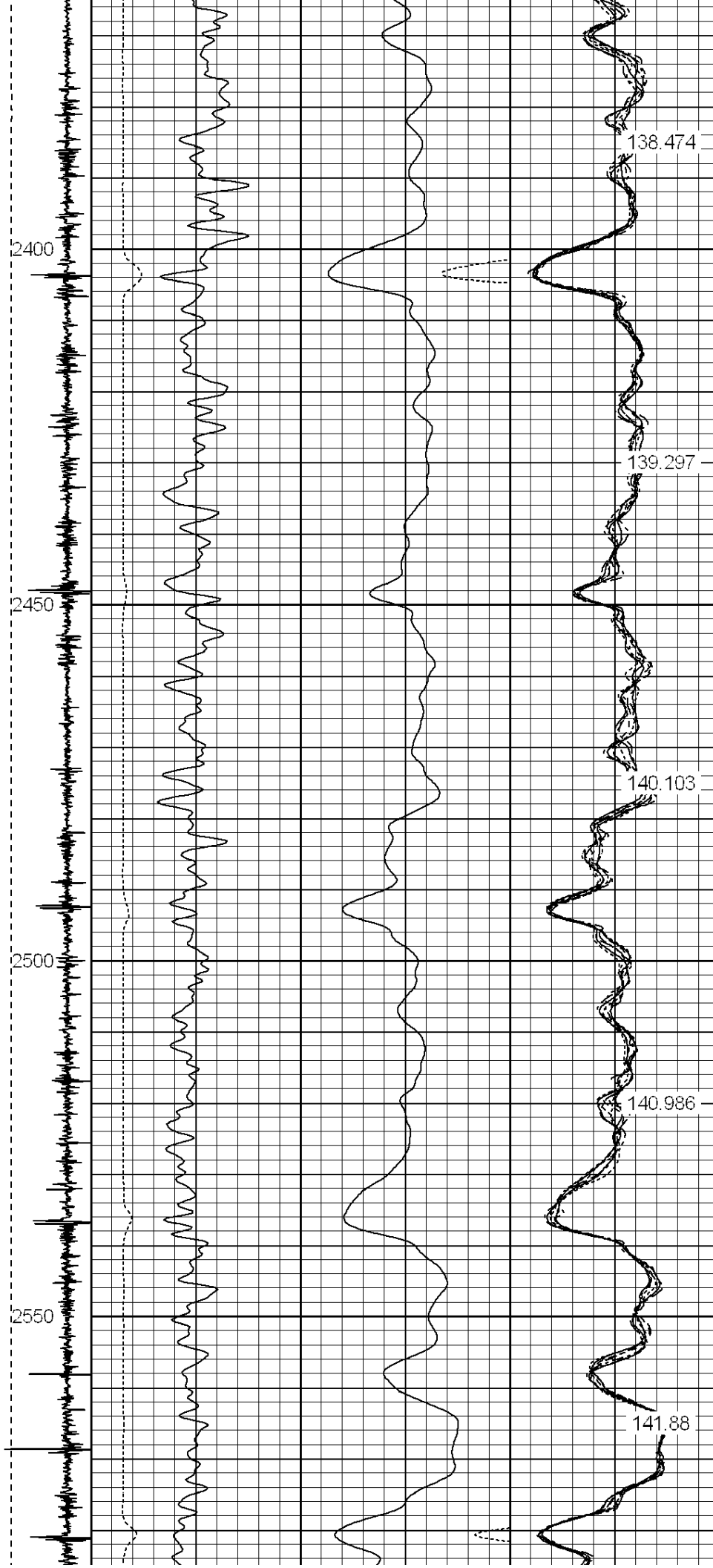


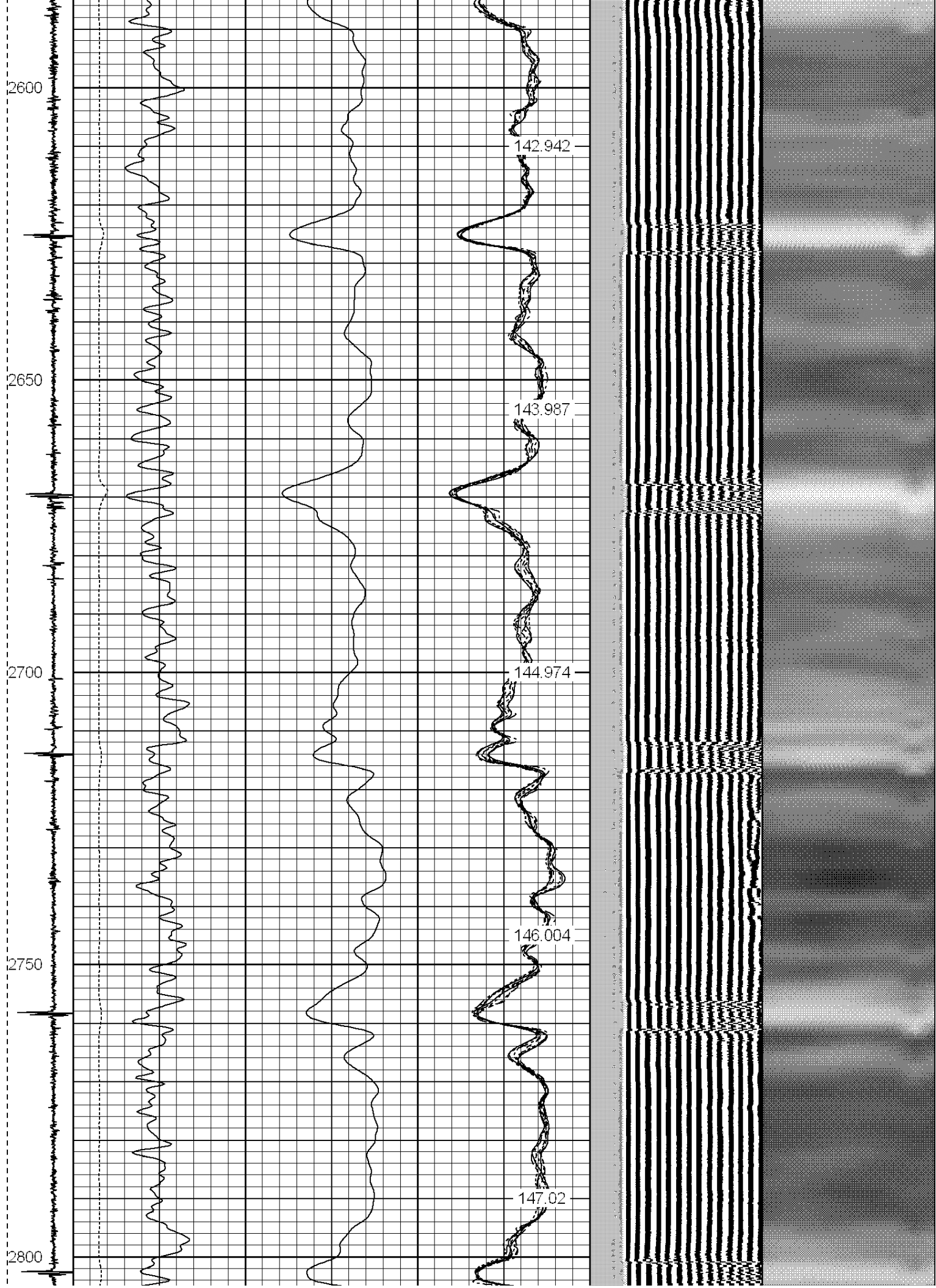


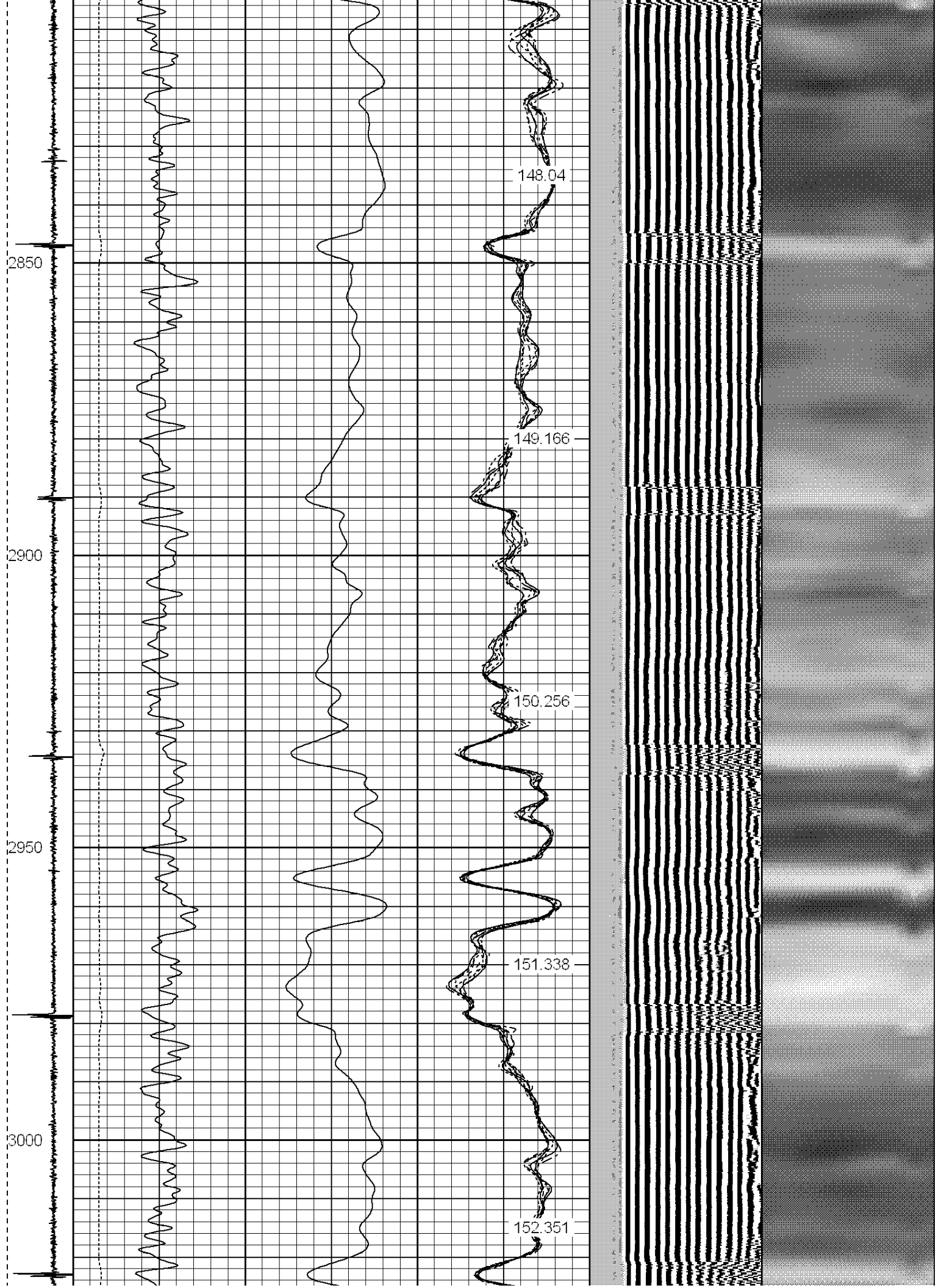


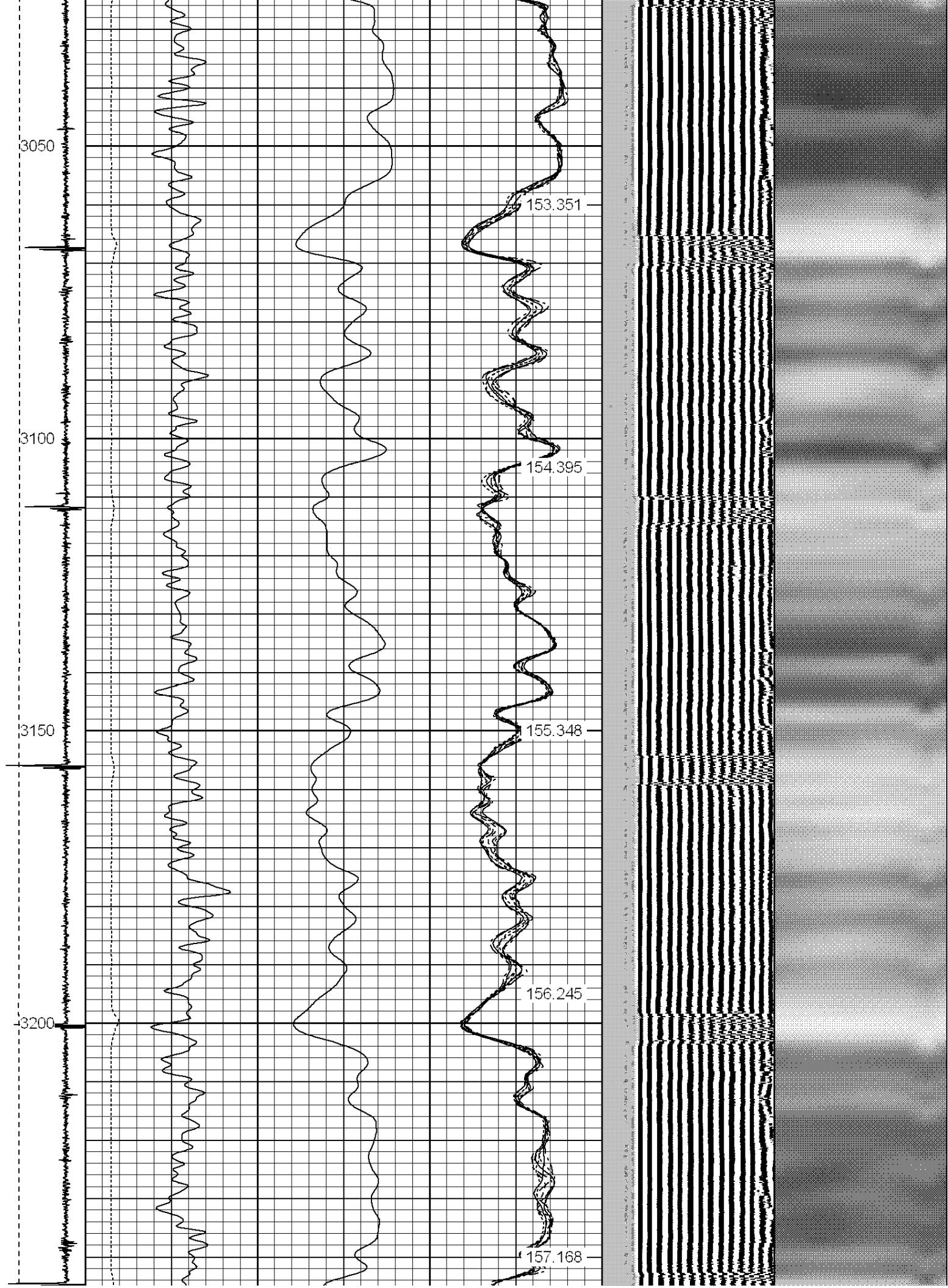


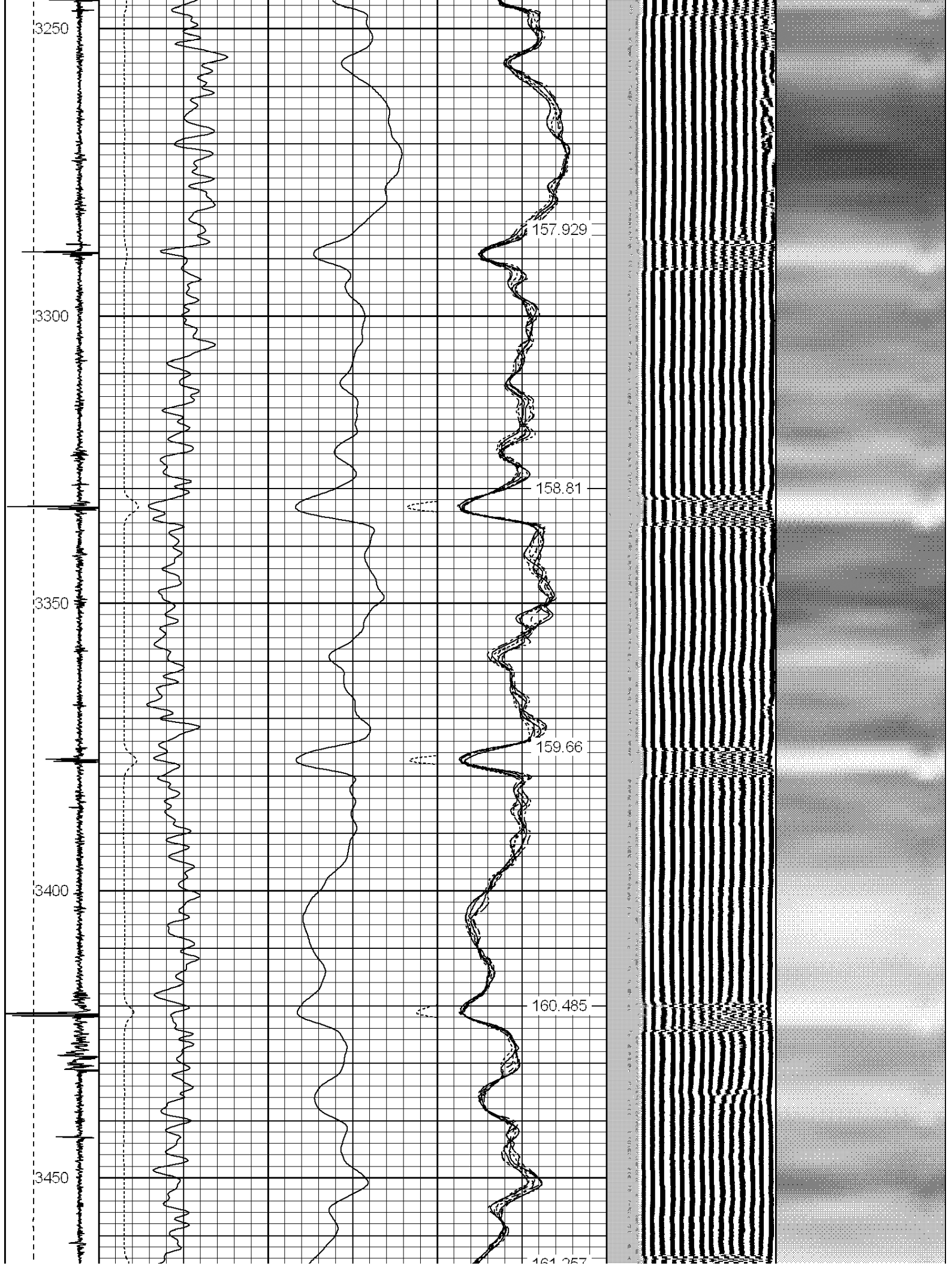


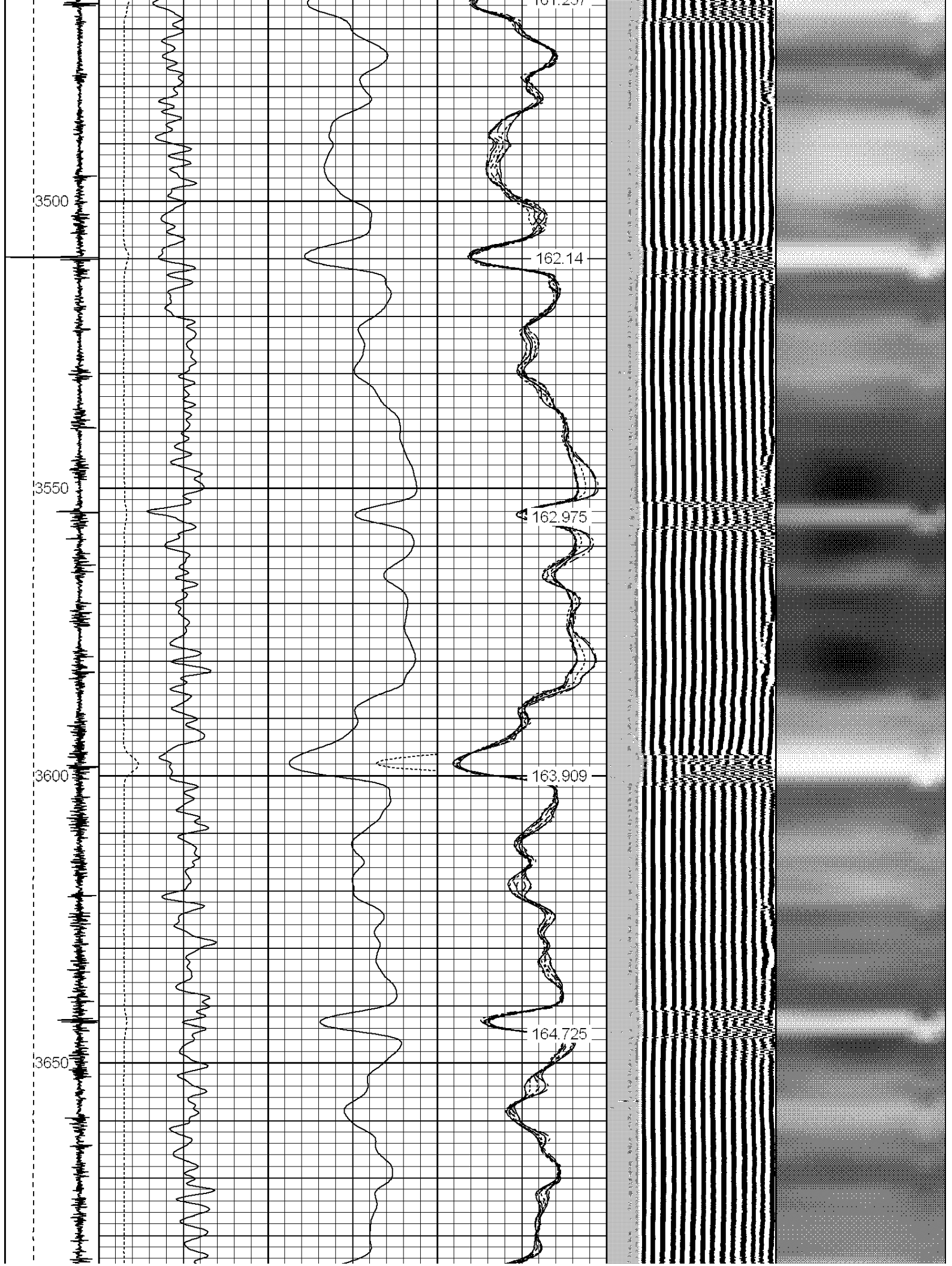




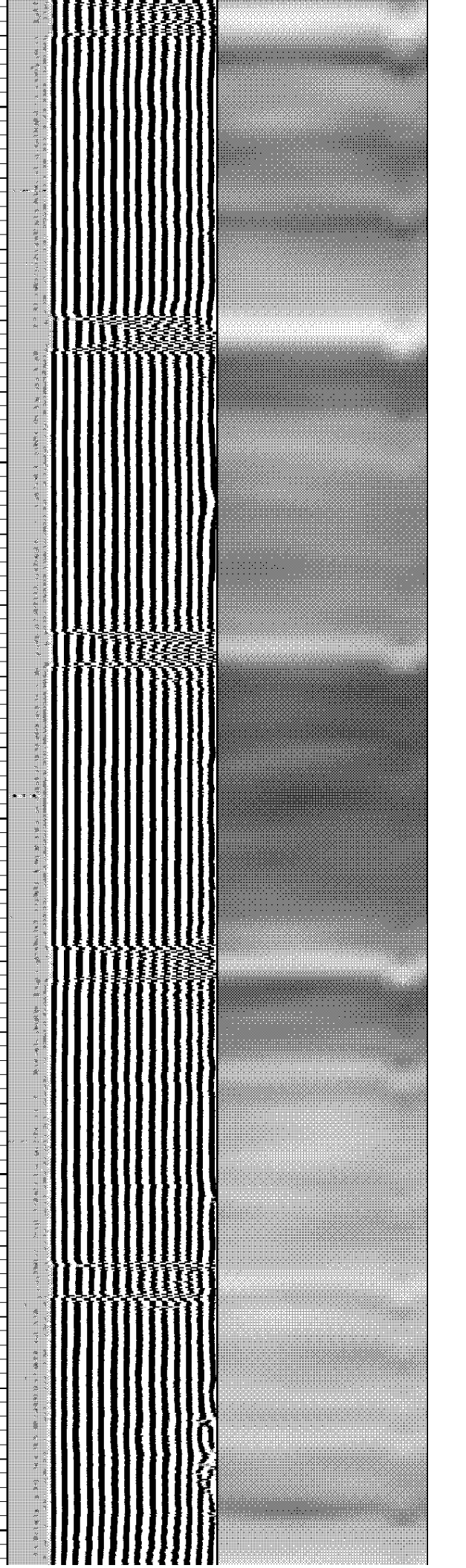
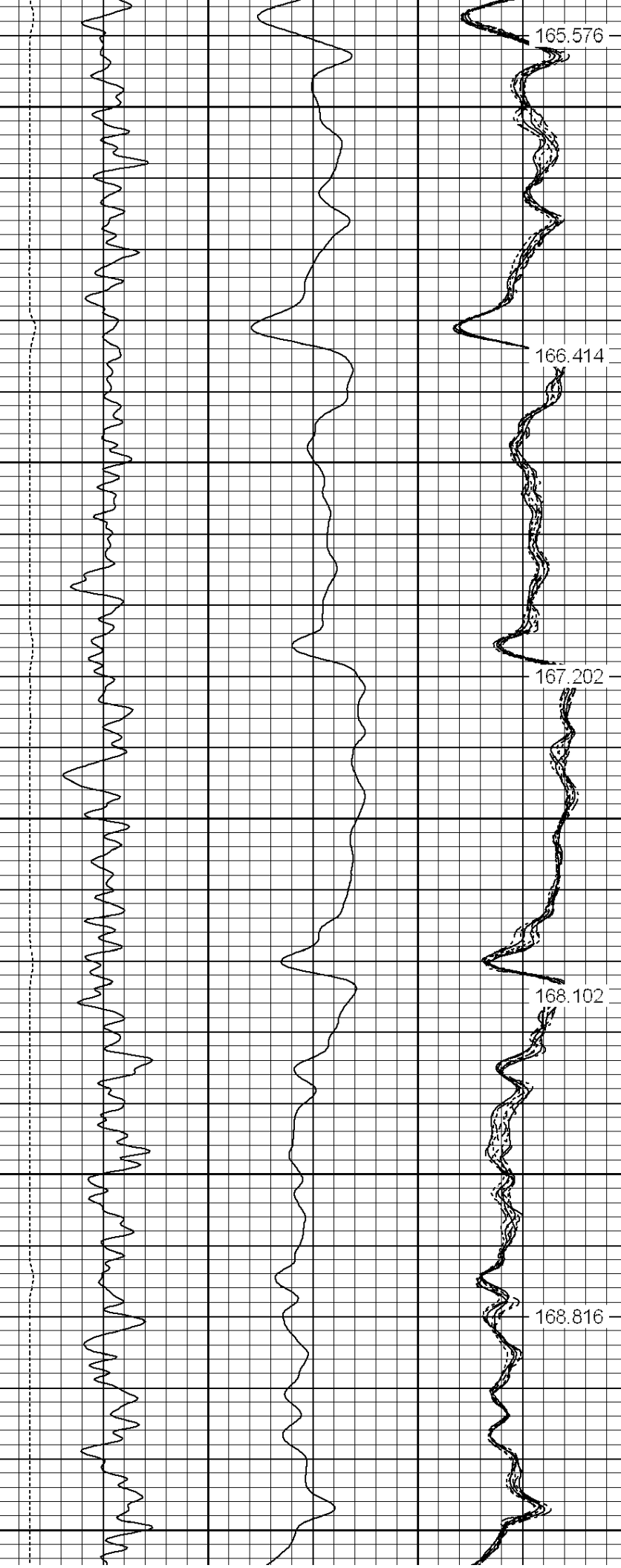








3700
3750
3800
3850
3900



3950

4000

4050

4100

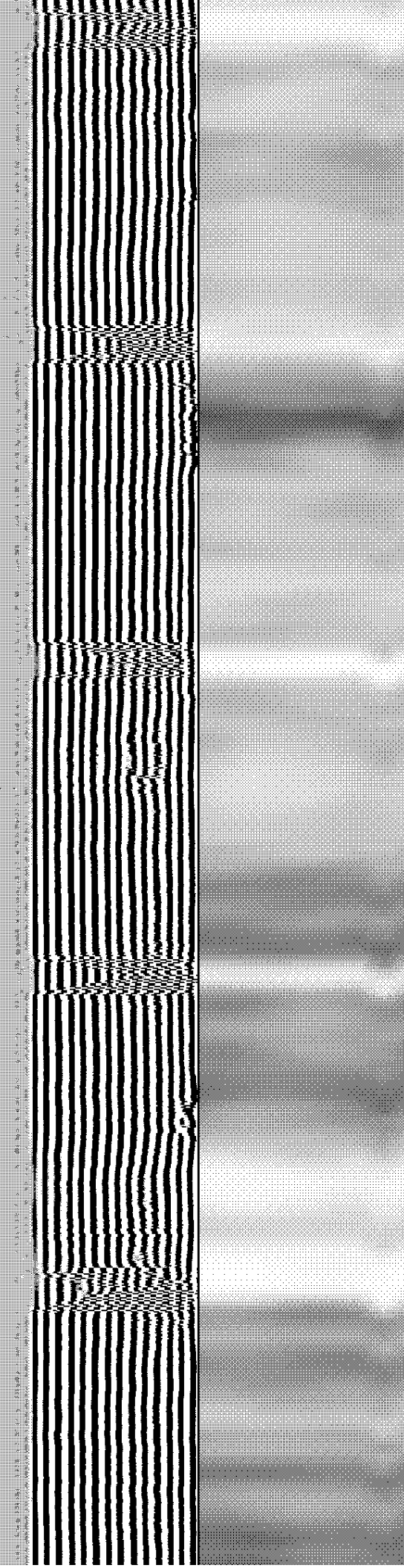
169.585

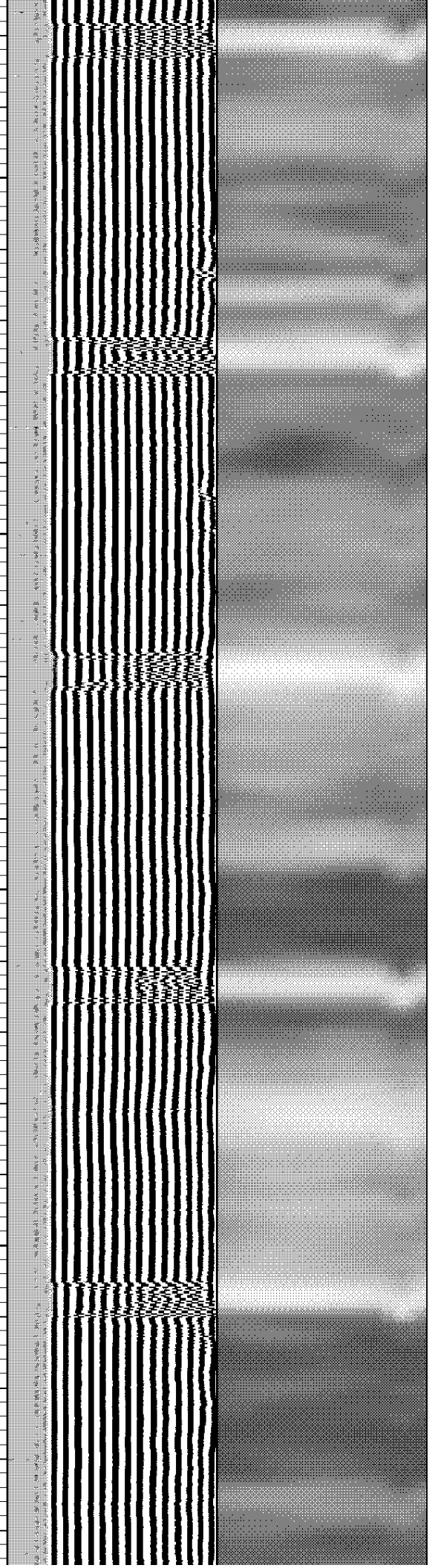
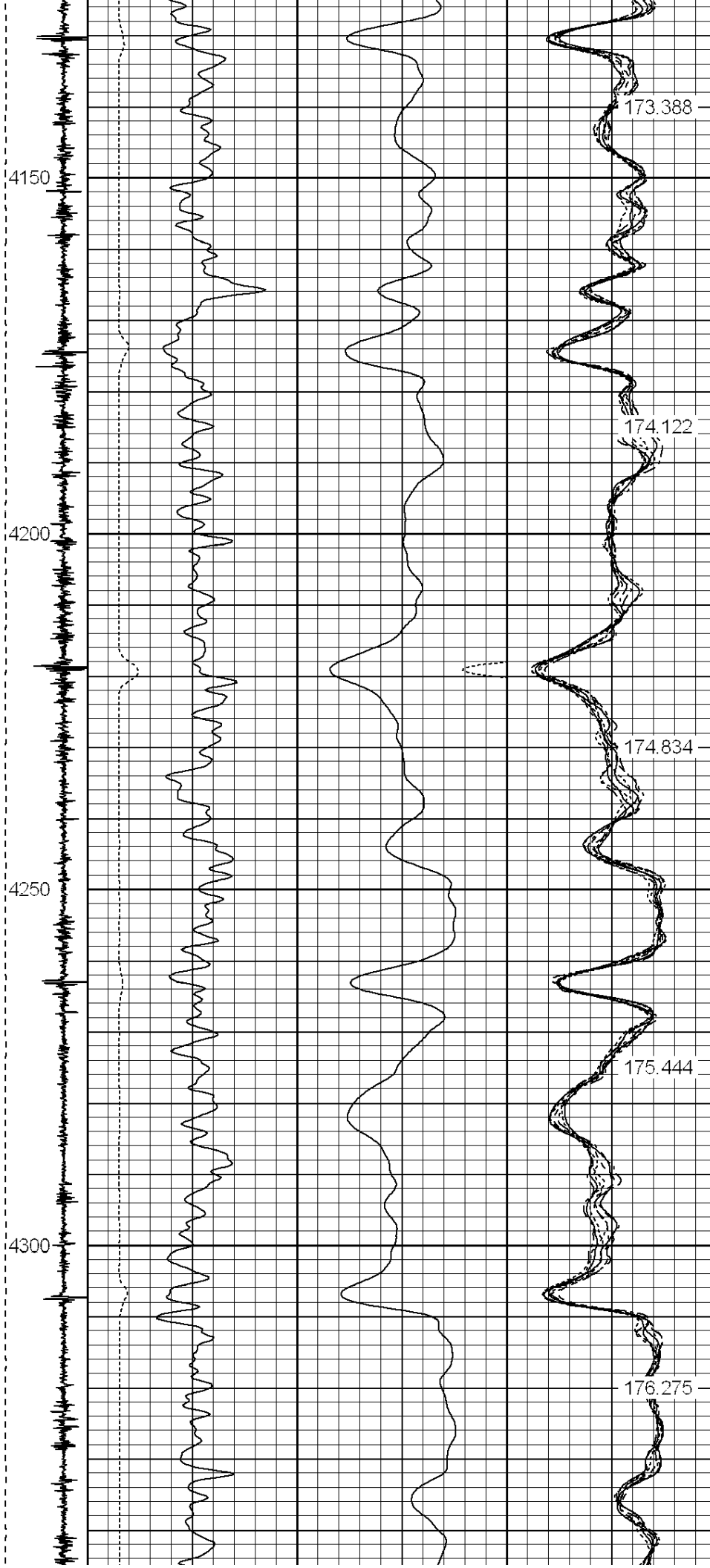
170.405

171.195

171.916

172.622





4350

4400

4450

4500

4550

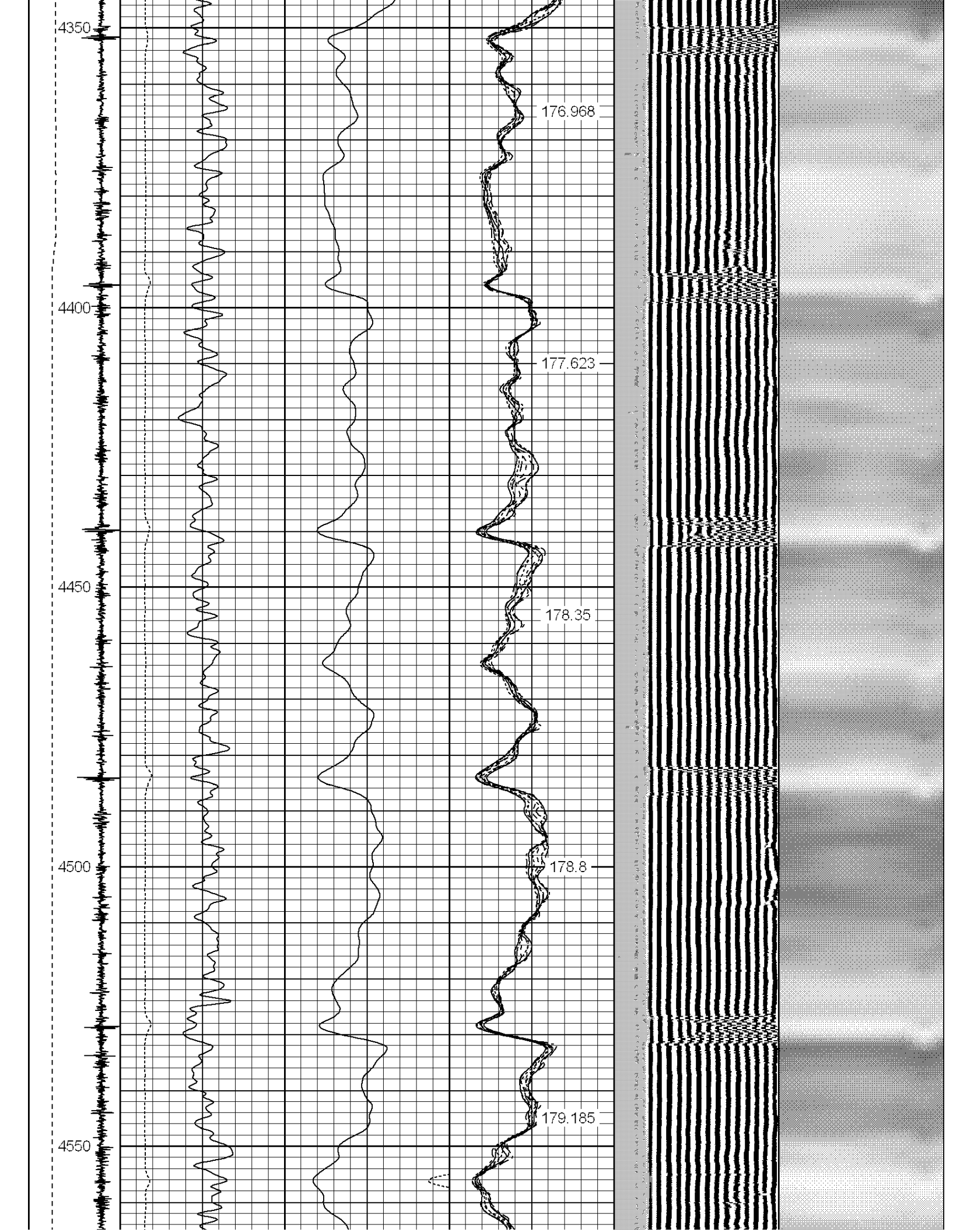
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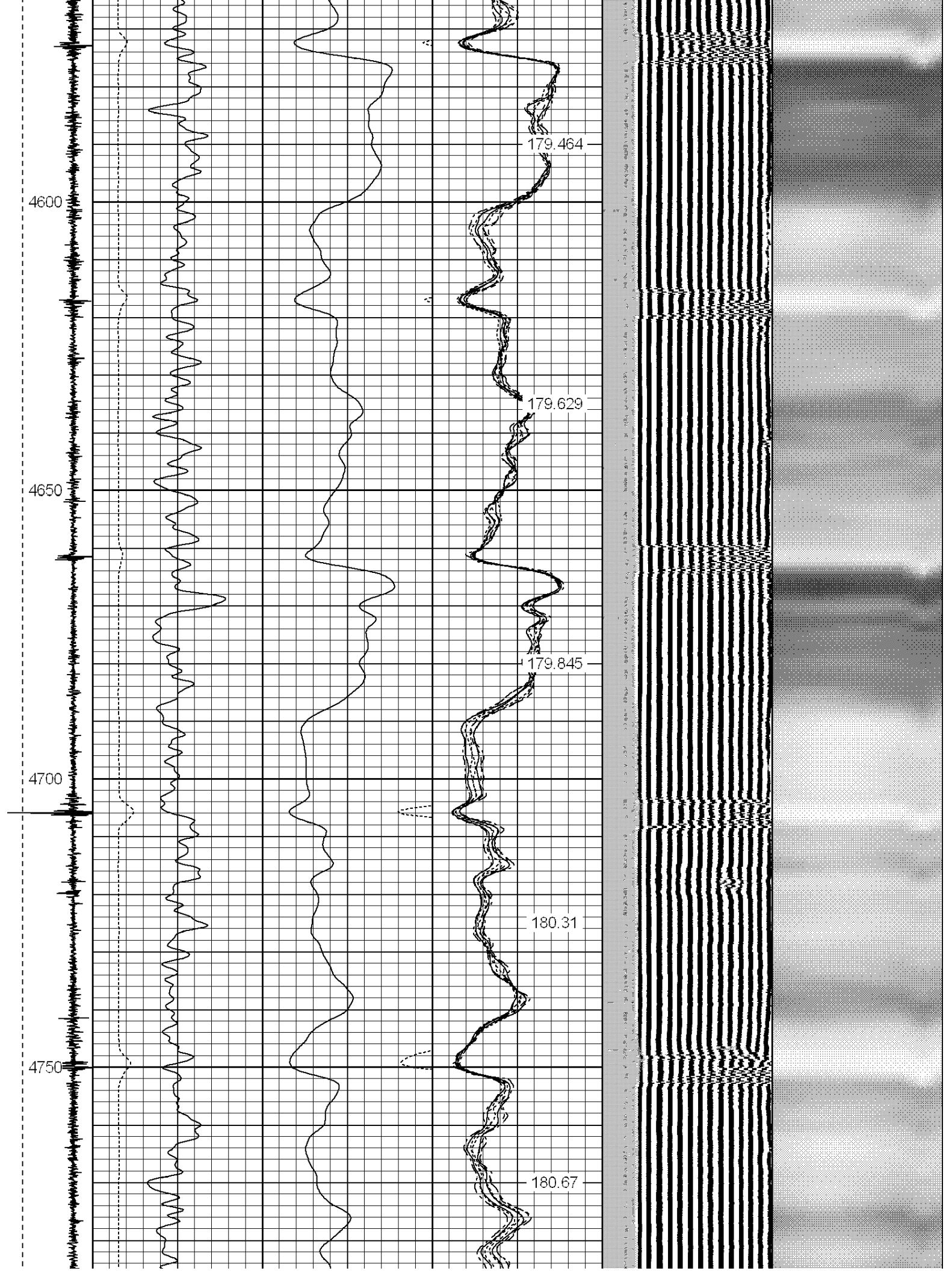
177.623

178.35

178.8

179.185





4800

4850

4900

4950

5000

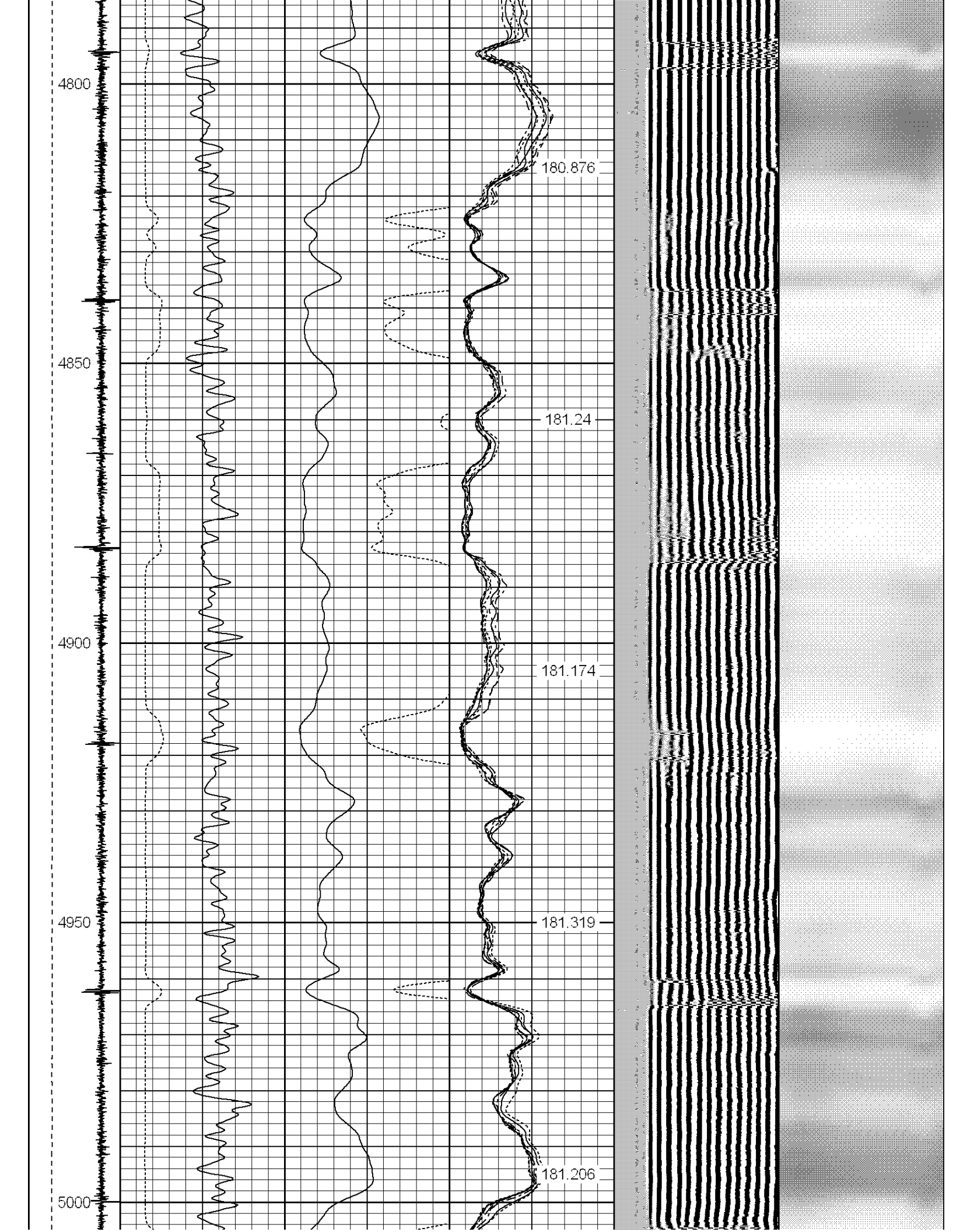
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181.24

181.174

181.319

181.206



5050

5100

5150

5200

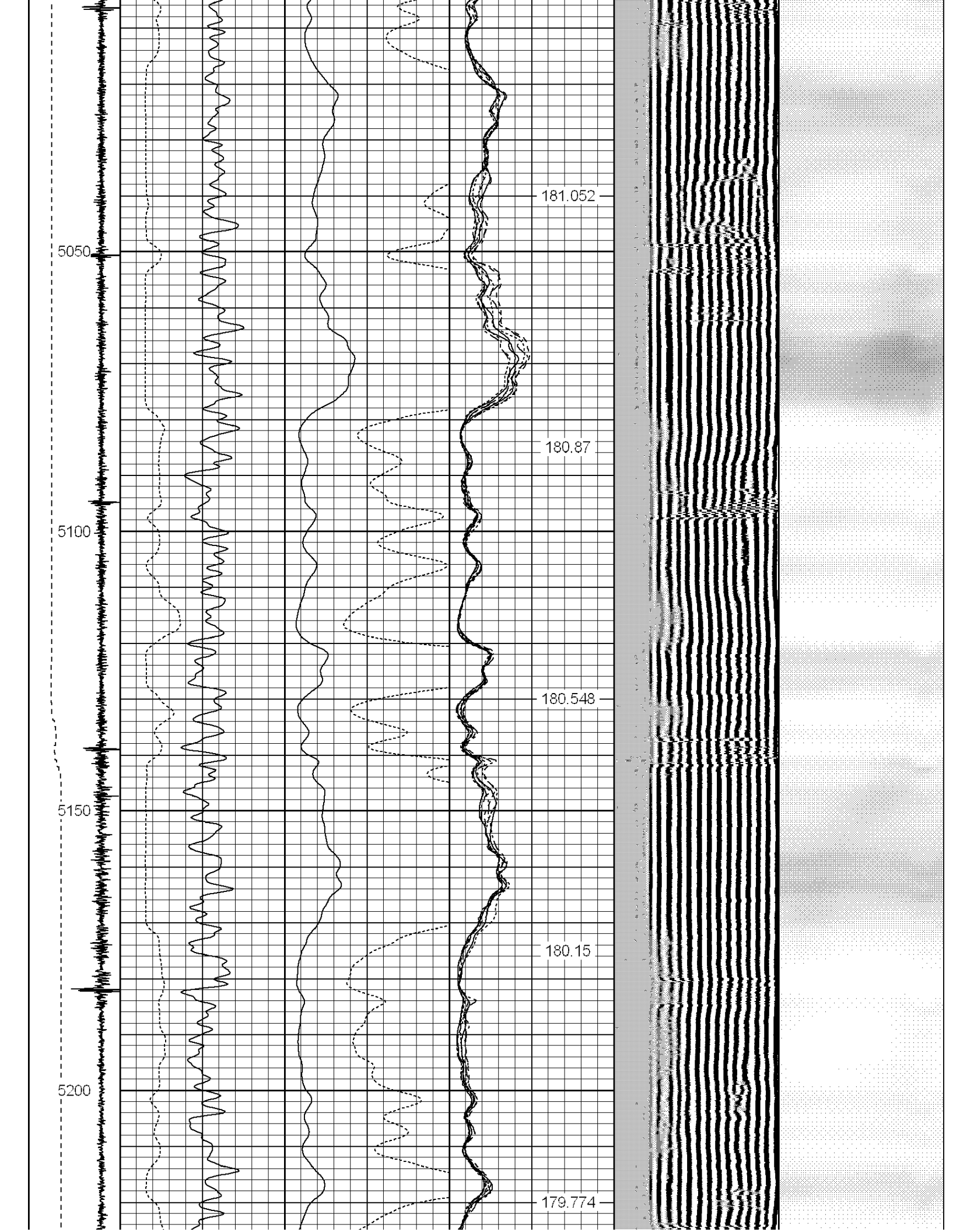
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180.87

180.548

180.15

179.774



5250

5300

5350

5400

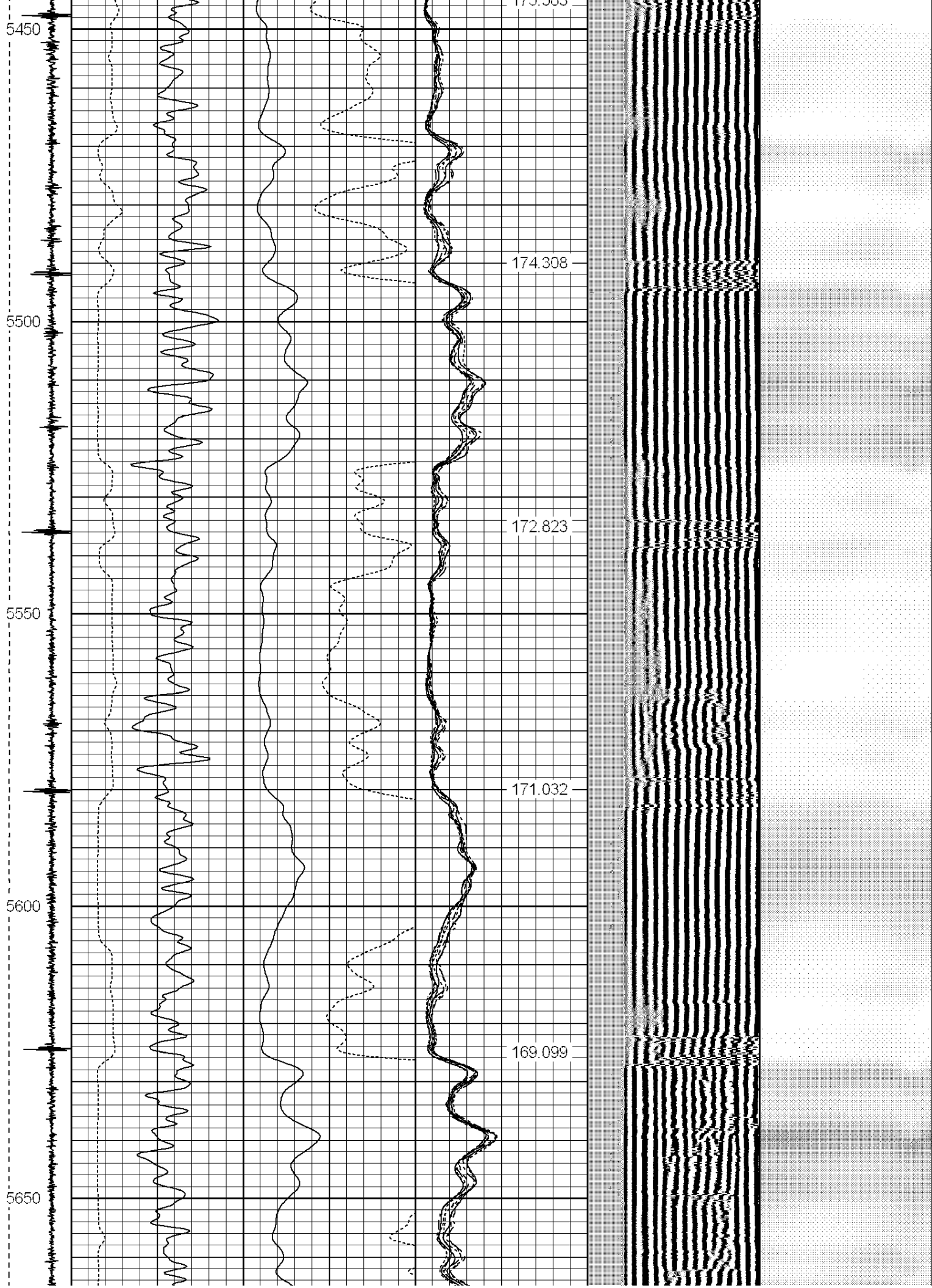
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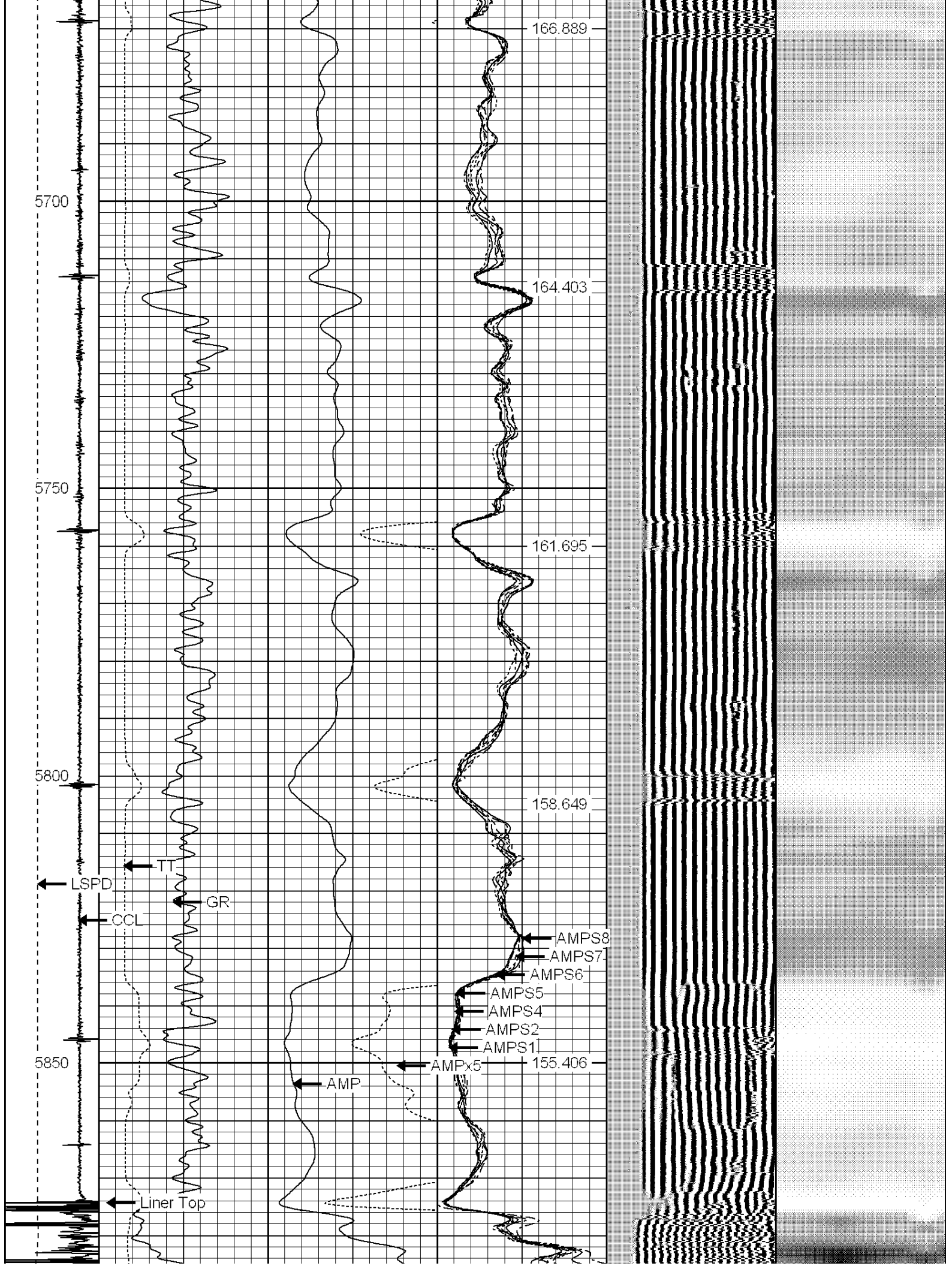
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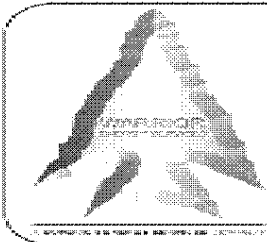
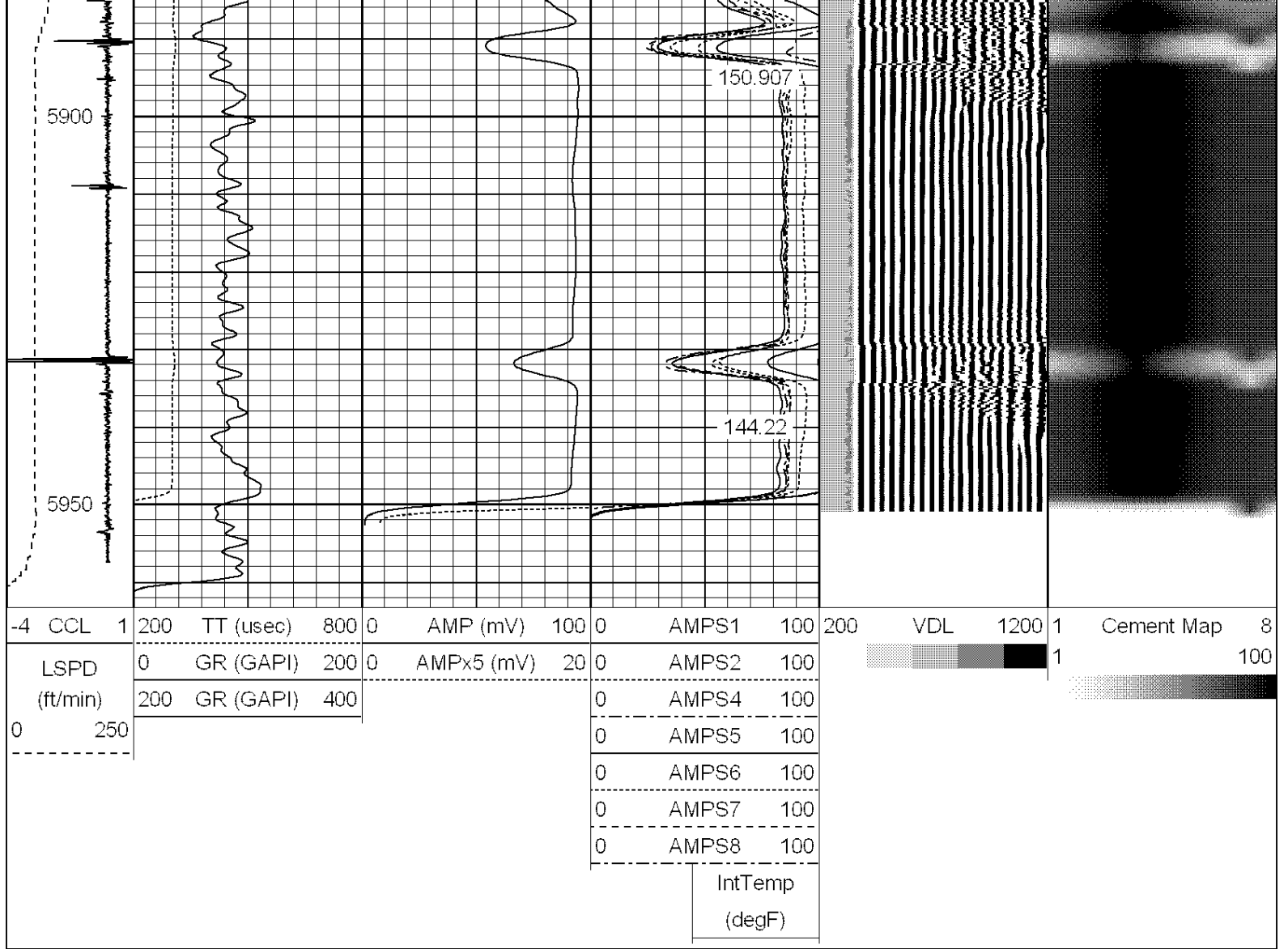
177.716

176.756

175.502







WARRIOR
ENERGY SERVICES

Company Bill Barrett Corporation
Well 70 Ranch 04-63-4841CH
Field Wattenberg
County Weld
State Colorado