

Digital Cement Bond Log
Gamma Ray
CCL

Company		KERR MCGEE OIL AND GAS	
Well		MUSE 1	
Field		WATTENBERG	
County		WELD	
State		COLORADO	
Location:		APL # : 05-123-08643	
SHL: 1460' FNL 990' FEL		Other Services	
LAT: 40.14200 LONG: -104.70090		SE/NE	
SEC 18 TWP 2N RGE 65W		Elevation	
Permanent Datum		GL KB 11'	
Log Measured From		KB 11'	
Drilling Measured From		KB	
Date		2-4-2015	
Run Number		ONE	
Depth Driller		7945'	
Depth Logger		6782'	
Bottom Logged Interval		6774'	
Top Log Interval		SURFACE	
Open Hole Size		WATER	
Type Fluid		1.0	
Density / Viscosity		211 DEG F	
Max. Recorded Temp.		276'	
Estimated Cement Top		N/A	
Time Well Ready		N/A	
Time Logger on Bottom		3812	
Equipment Number		GREELEY	
Location		N.POLLOCK	
Recorded By		RANDY J.	
Witnessed By			
Run Number		Borehole Record	
Bit		From	
To		Size	
Weight		From	
To		Tubing Record	
ONE		From	
TWO		To	
Casing Record		Size	
Surface String		8.58	
Prot. String		24#	
Production String		4.5	
Liner		11.6#	
		SURFACE	
		7940'	

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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

FREE PIPE CALIBRATION AT 3019' (81mV)
RAN OUT OF FLUID AT 105'
RAN C.B.L. TO VERIFY CEMENTN TOP.

THANK YOU FOR USING WARRIOR ENERGY SERVICES!

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CENT	19.08					

Tool Joint	Length (ft)	Weight (lb)	OD (in)	Notes
PTS275	2.83	2.75		
HEADVOLT	16.25			
RBT	16.25			
IntTemp	14.83			
WVFS3FT	11.58			
WVFCAL	11.58			
WVFS1	11.58			
WVFS2	11.58			
WVFS3	11.58			
WVFS4	11.58			
WVFS5	11.58			
WVFS6	11.58			
WVFS7	11.58			
WVFS8	11.58			
WVFS5FT	10.58			
RBT-Probe (Base)	8.92	2.75	90.00	Probe Radii Bond Tool with Digital Telemetry
CNLSC	6.00			
CNSSC	5.17			
GR	4.33			
CCL	3.64			
GR-Probe (275)	4.33	2.75	30.00	Probe 2.75"
GR	0.90			
CNT-Probe_B (275)	3.00	2.75	40.00	6 bow centralizer

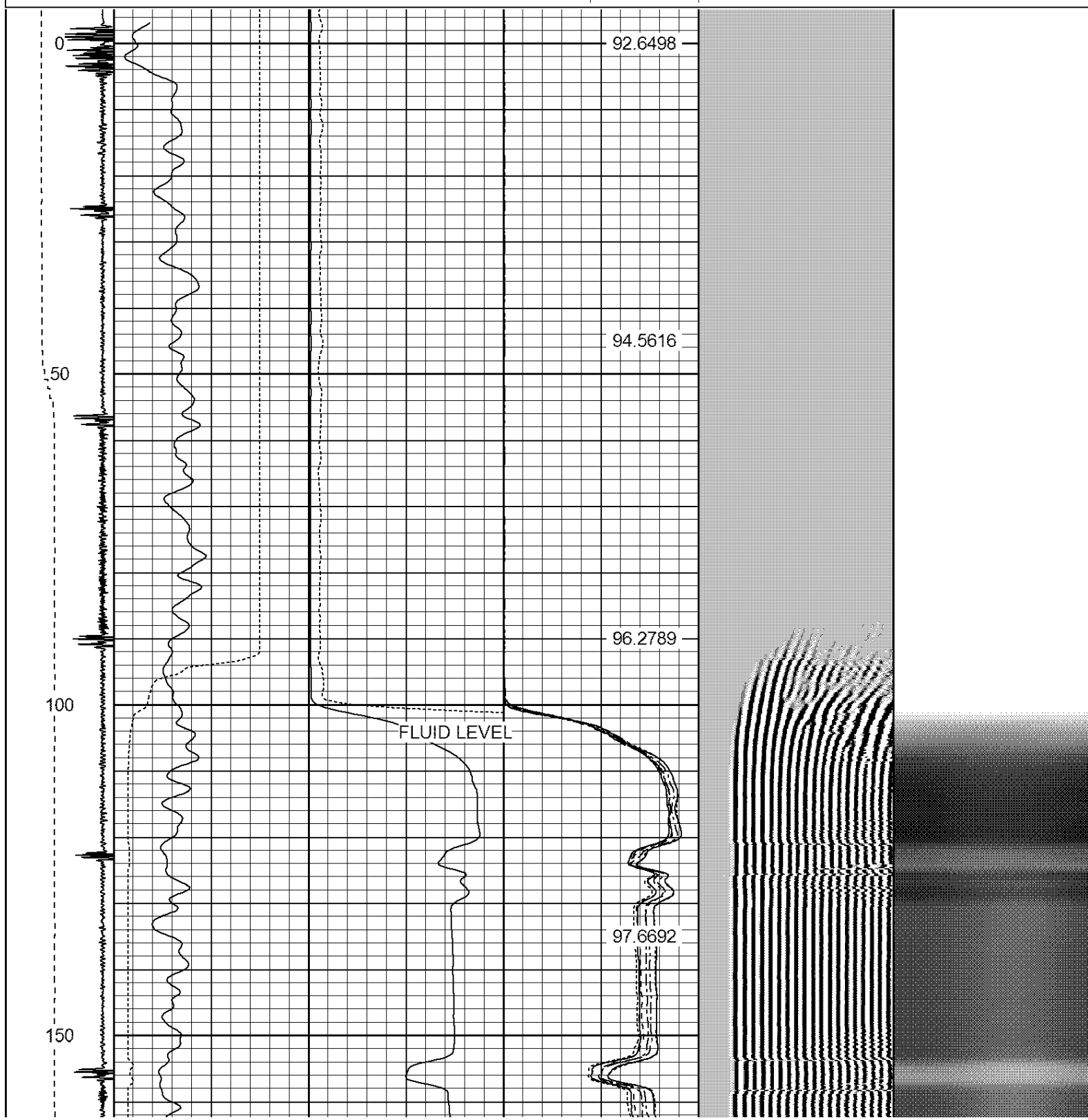
Dataset: muse 1.db: field/well/run1/pass5

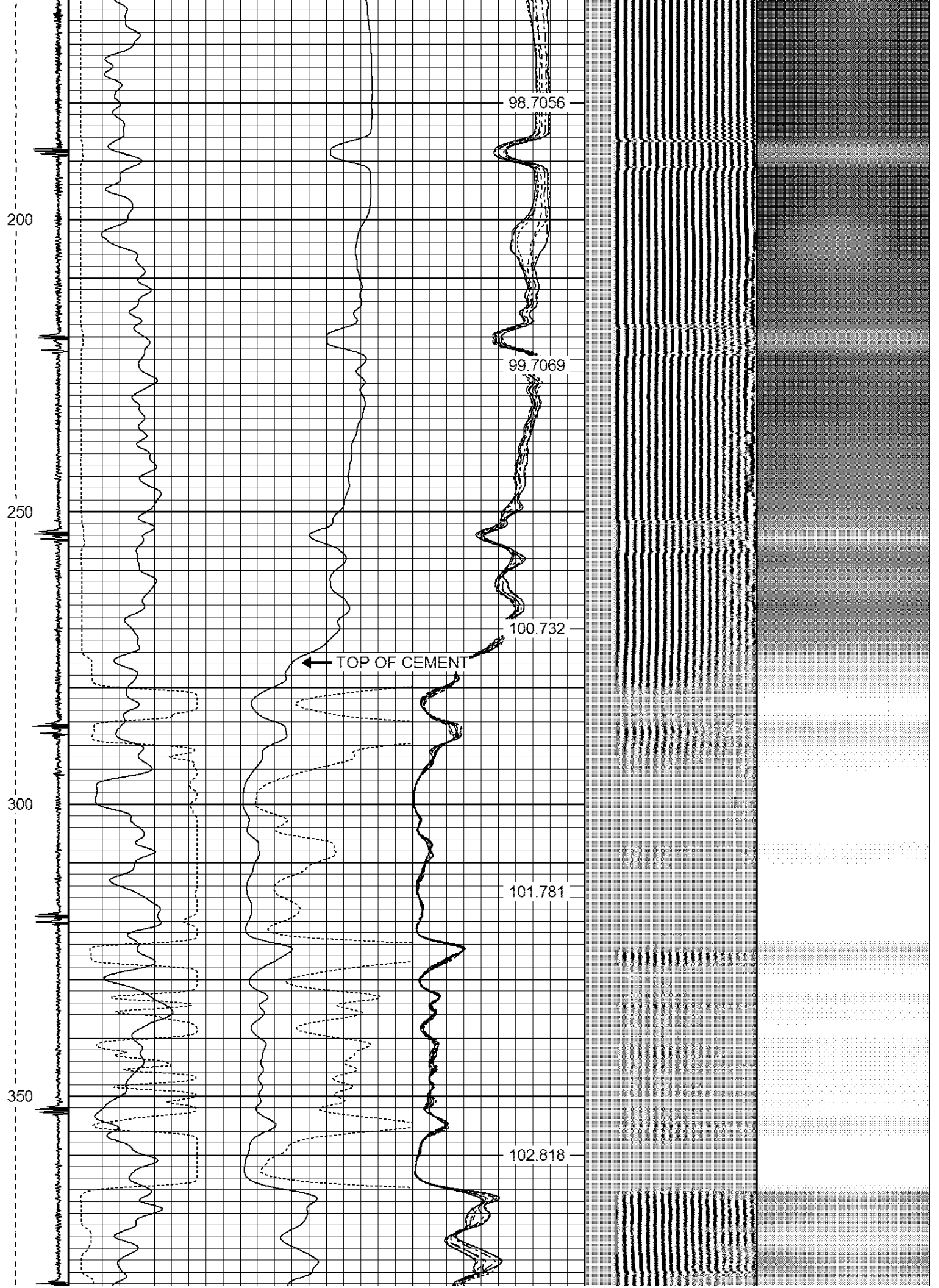
Total Length: 19.08 ft

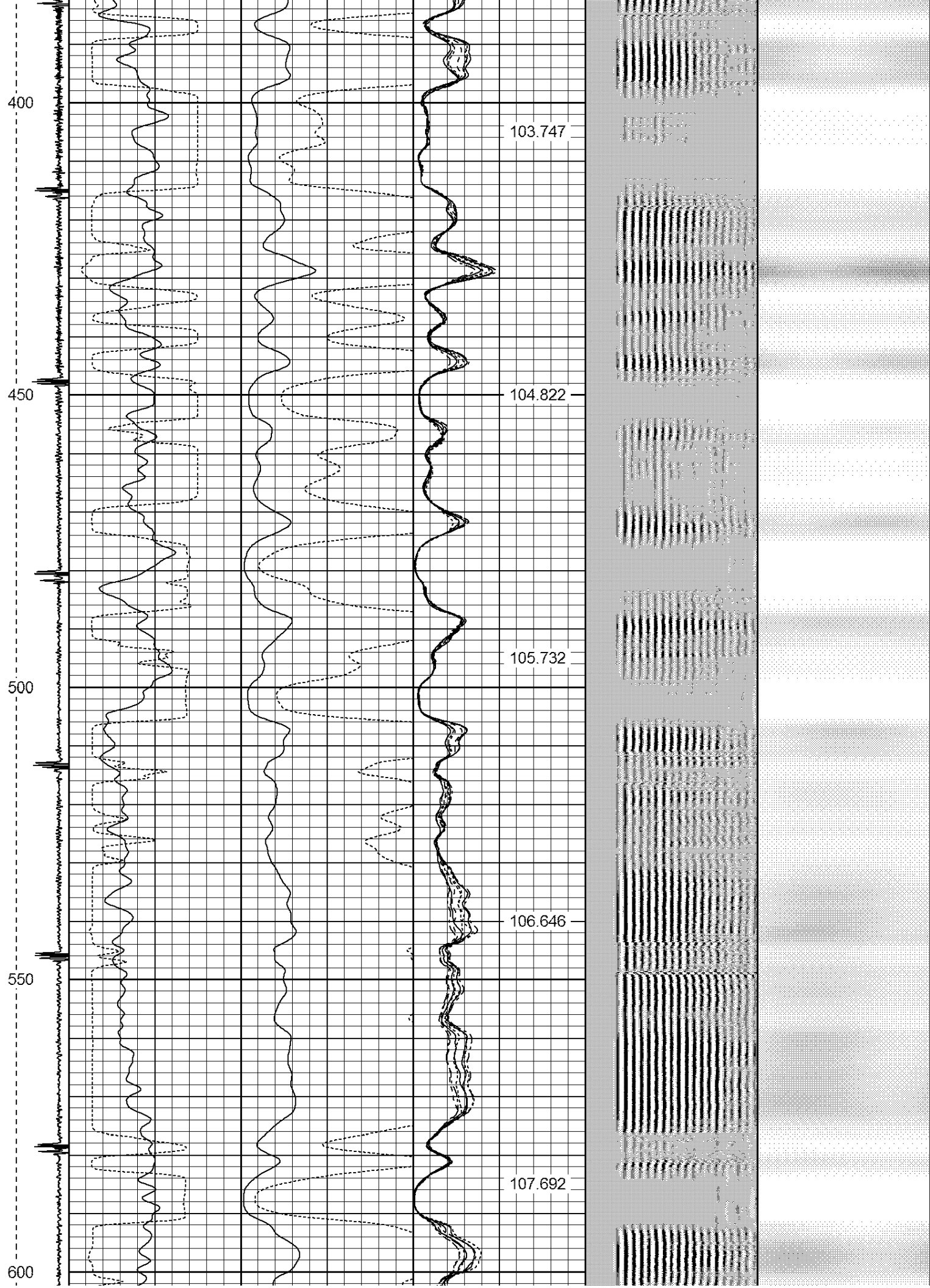
Total Weight: 160.00 lb

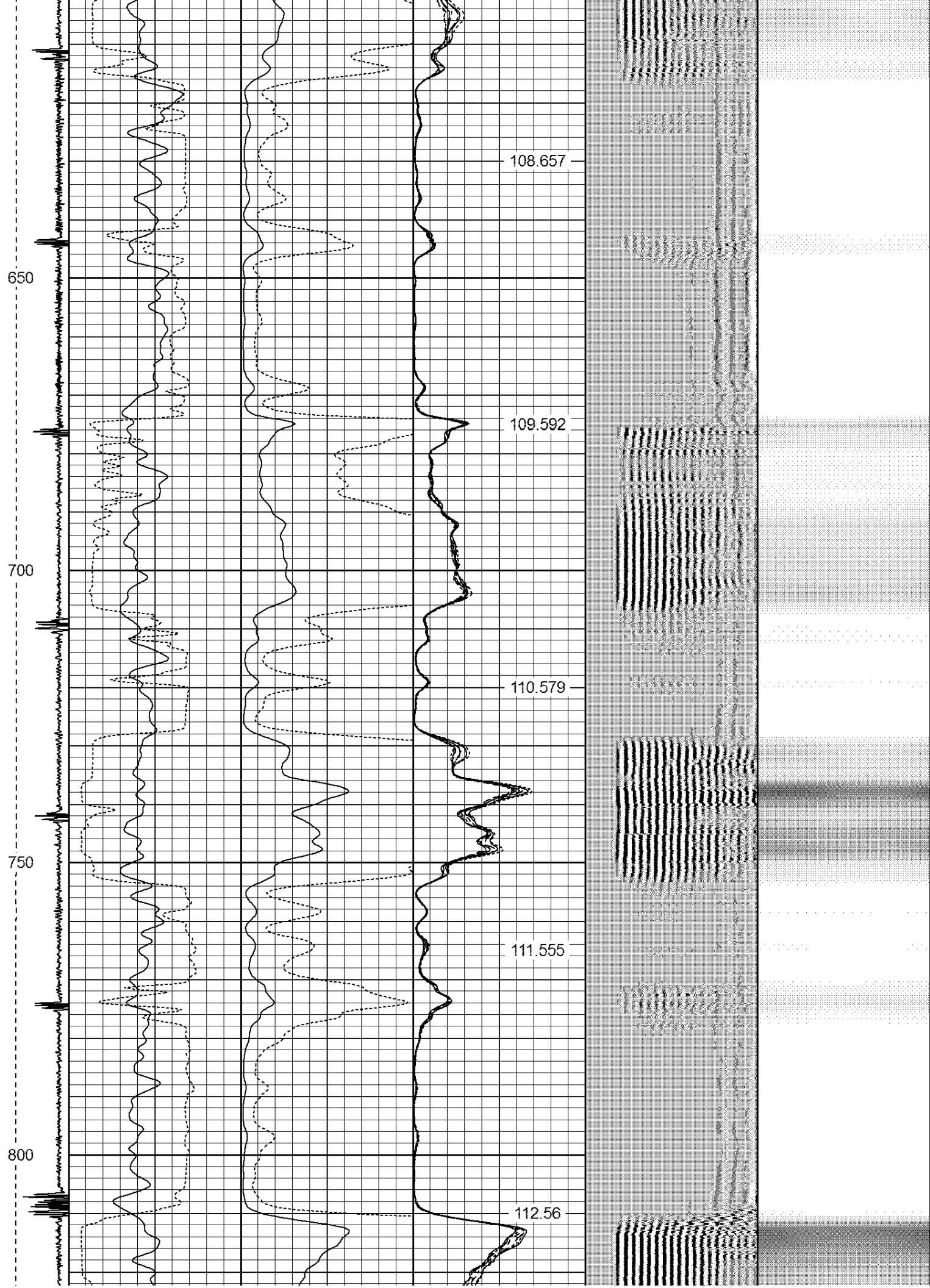
O.D. 2.75 in

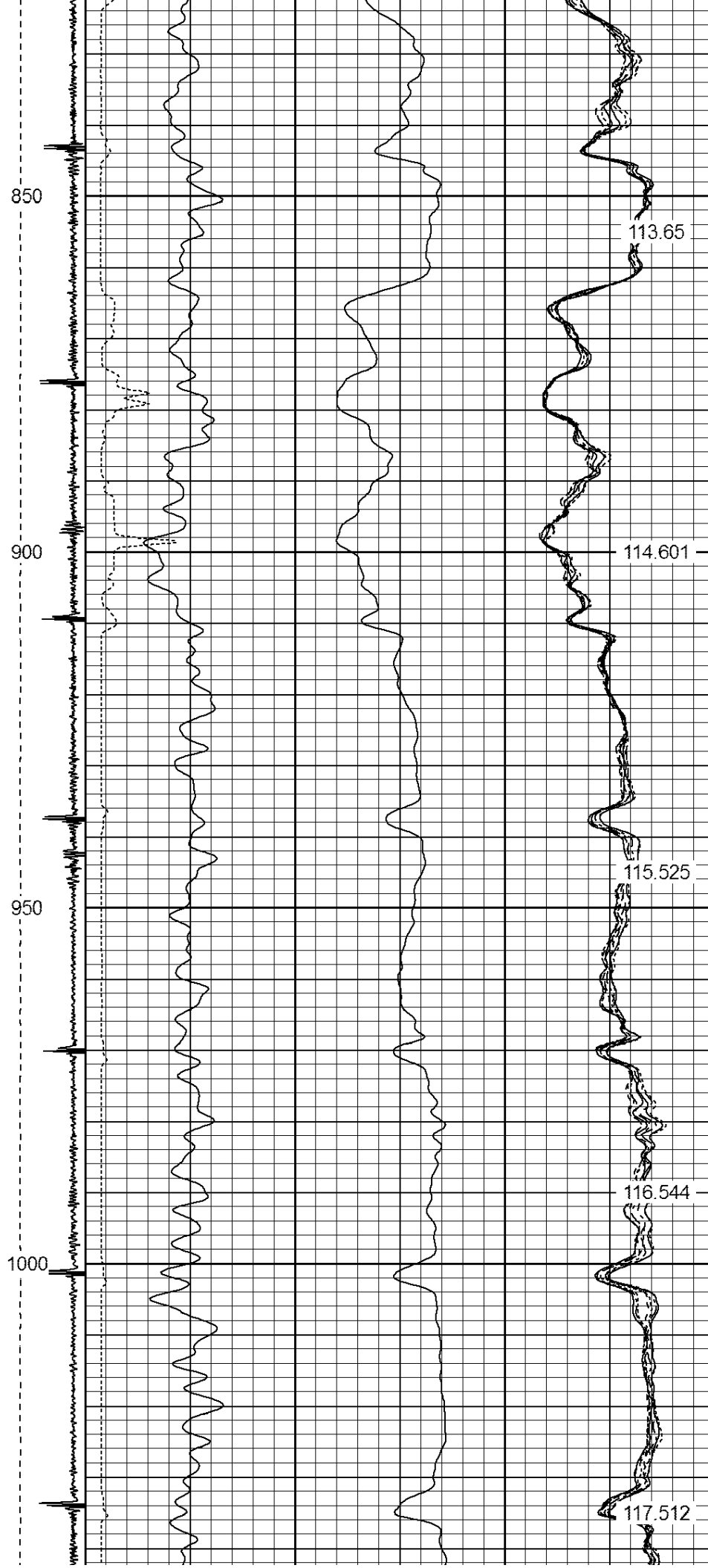
-9	CCL	1	200	TT (usec)	1000	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8
LSPD (ft/min)			0	GR (cps)	200	0	AMPx5 (mV)	20	0	AMPS2	100						
			200	GR (cps)	400			0	AMPS4	100							
0	250								0	AMPS5	100						
-----									0	AMPS6	100						
									0	AMPS7	100						
									0	AMPS8	100						
										IntTemp (degF)							

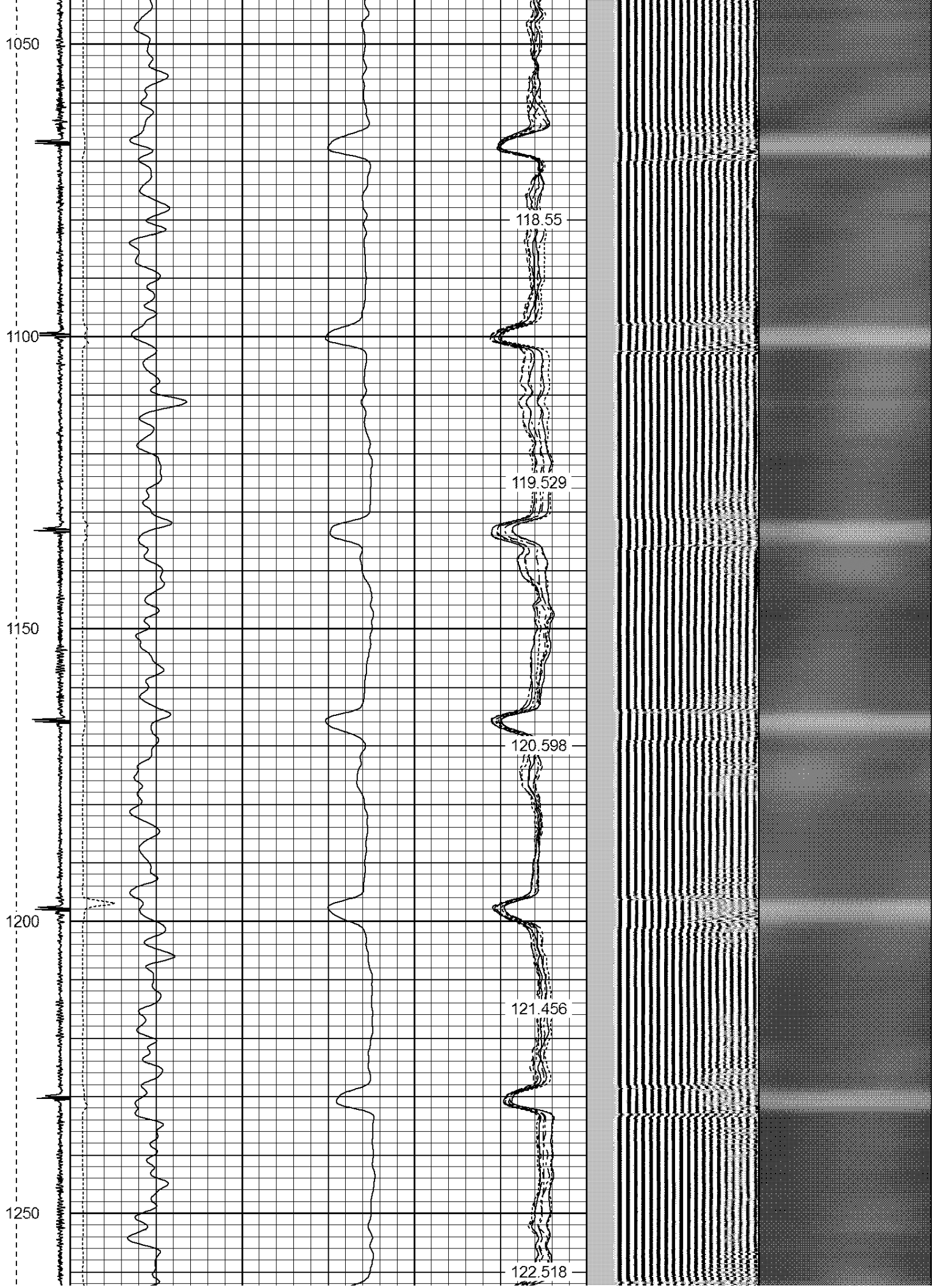


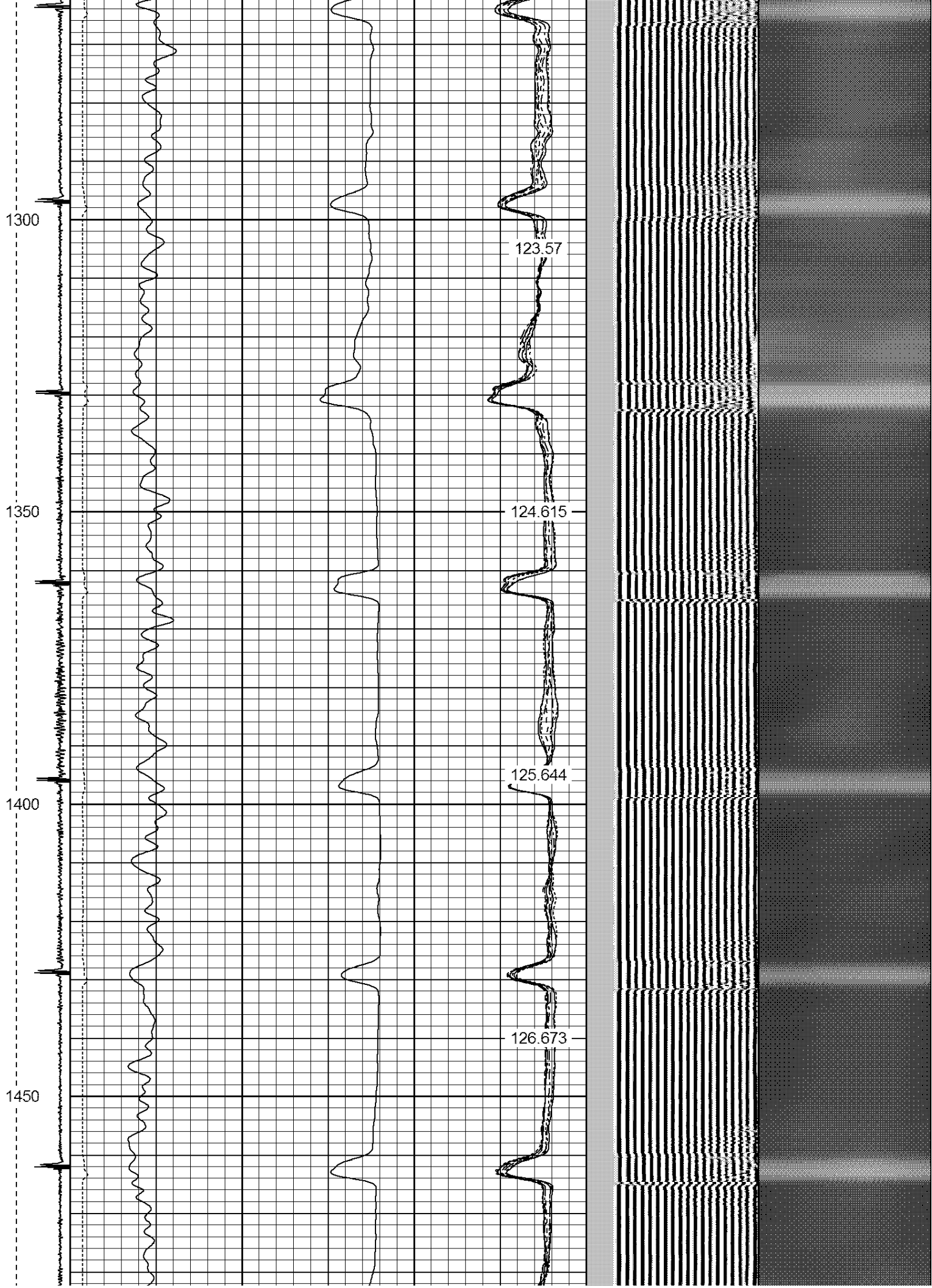


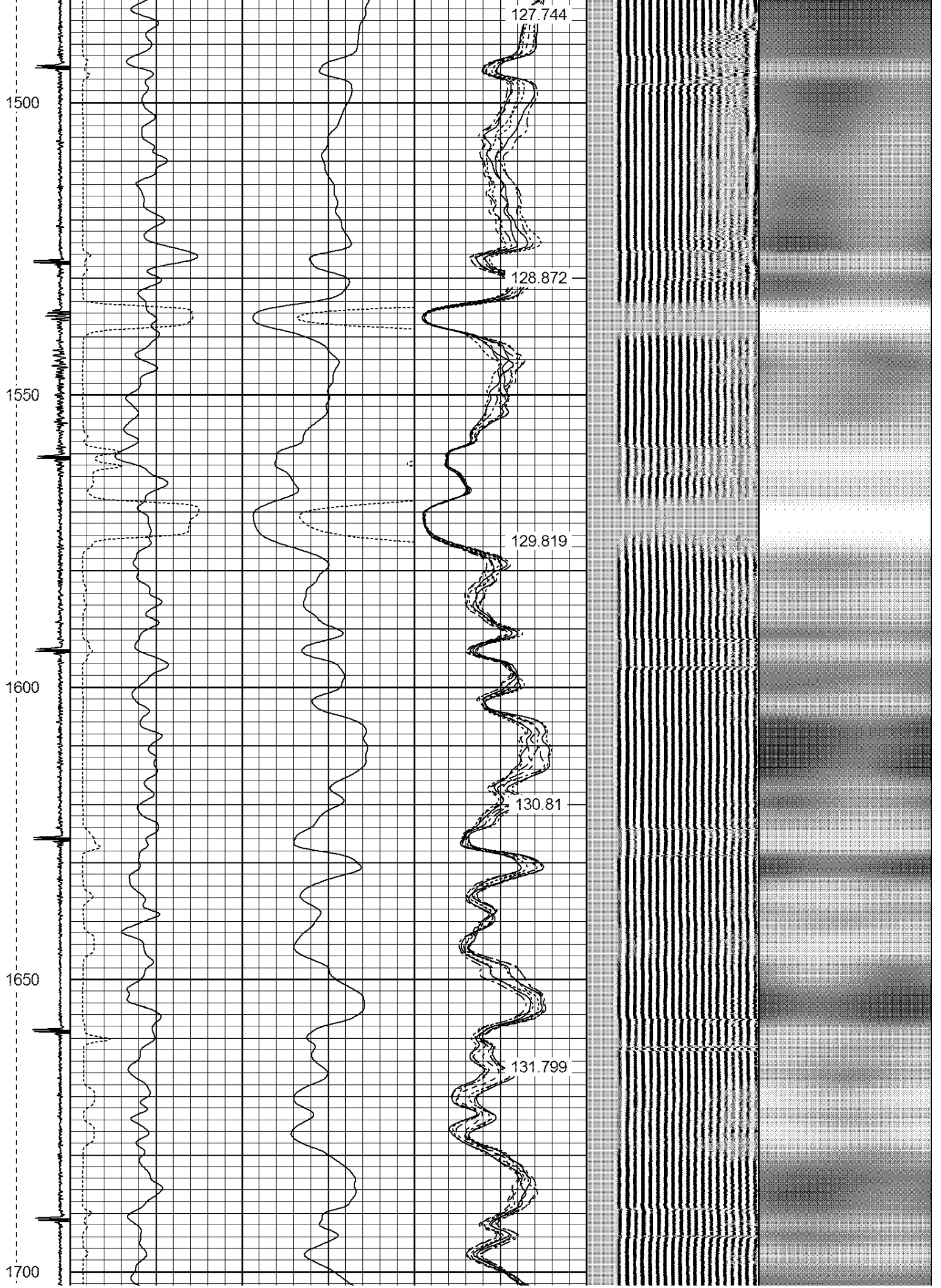


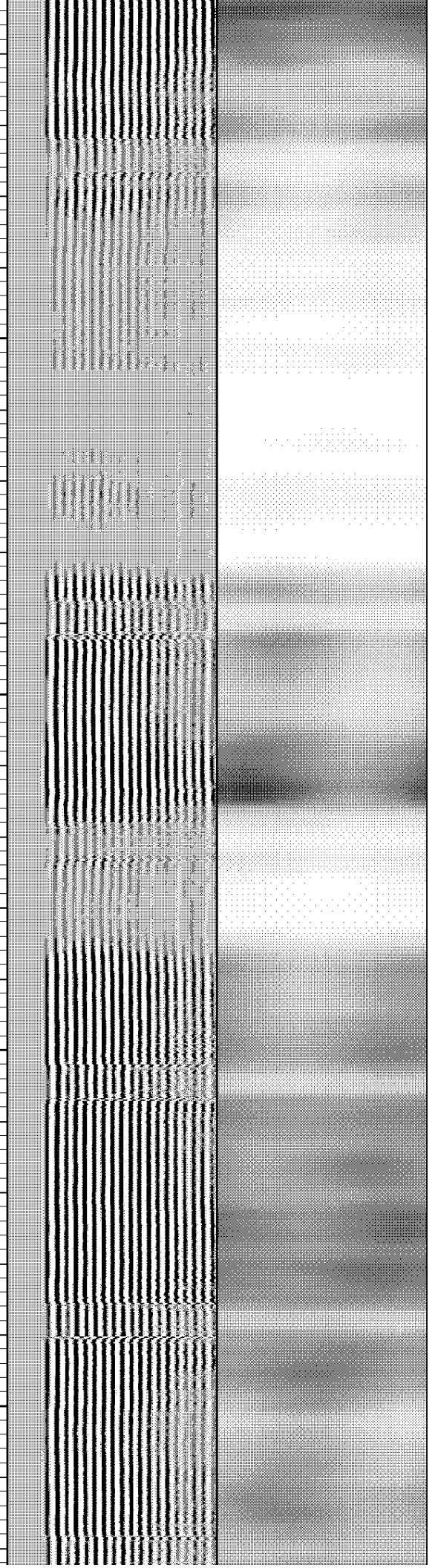
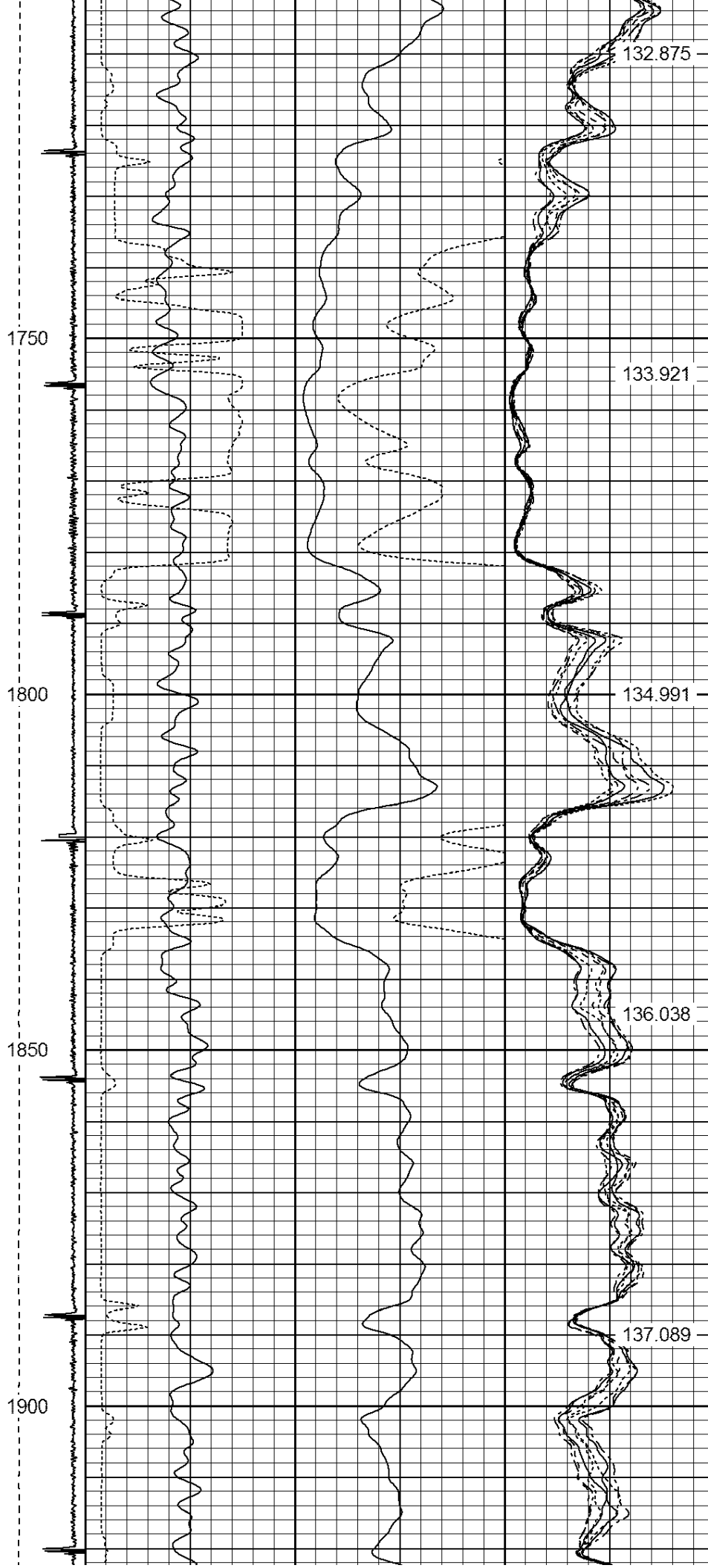


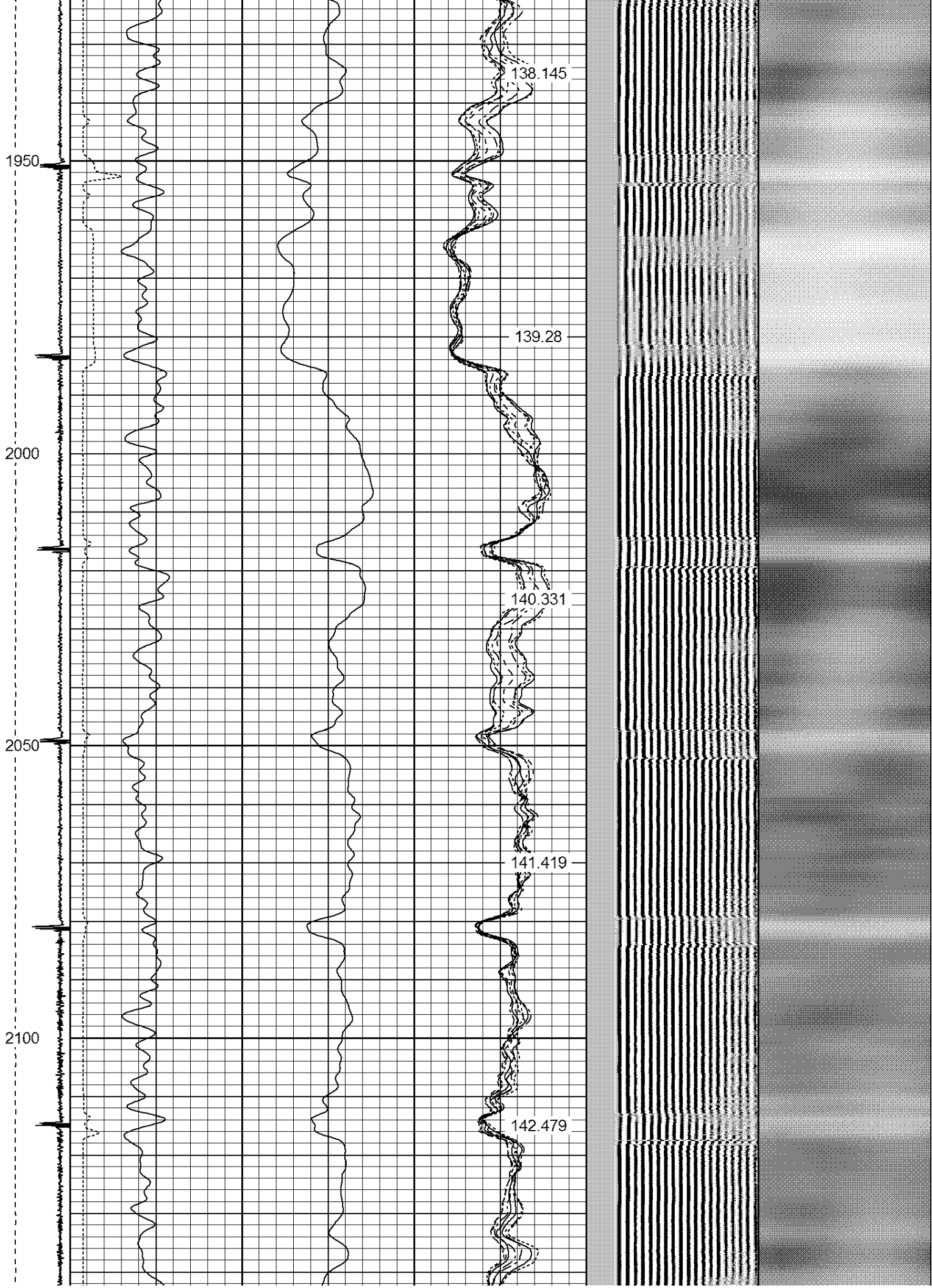












2150

143.627

2200

144.686

2250

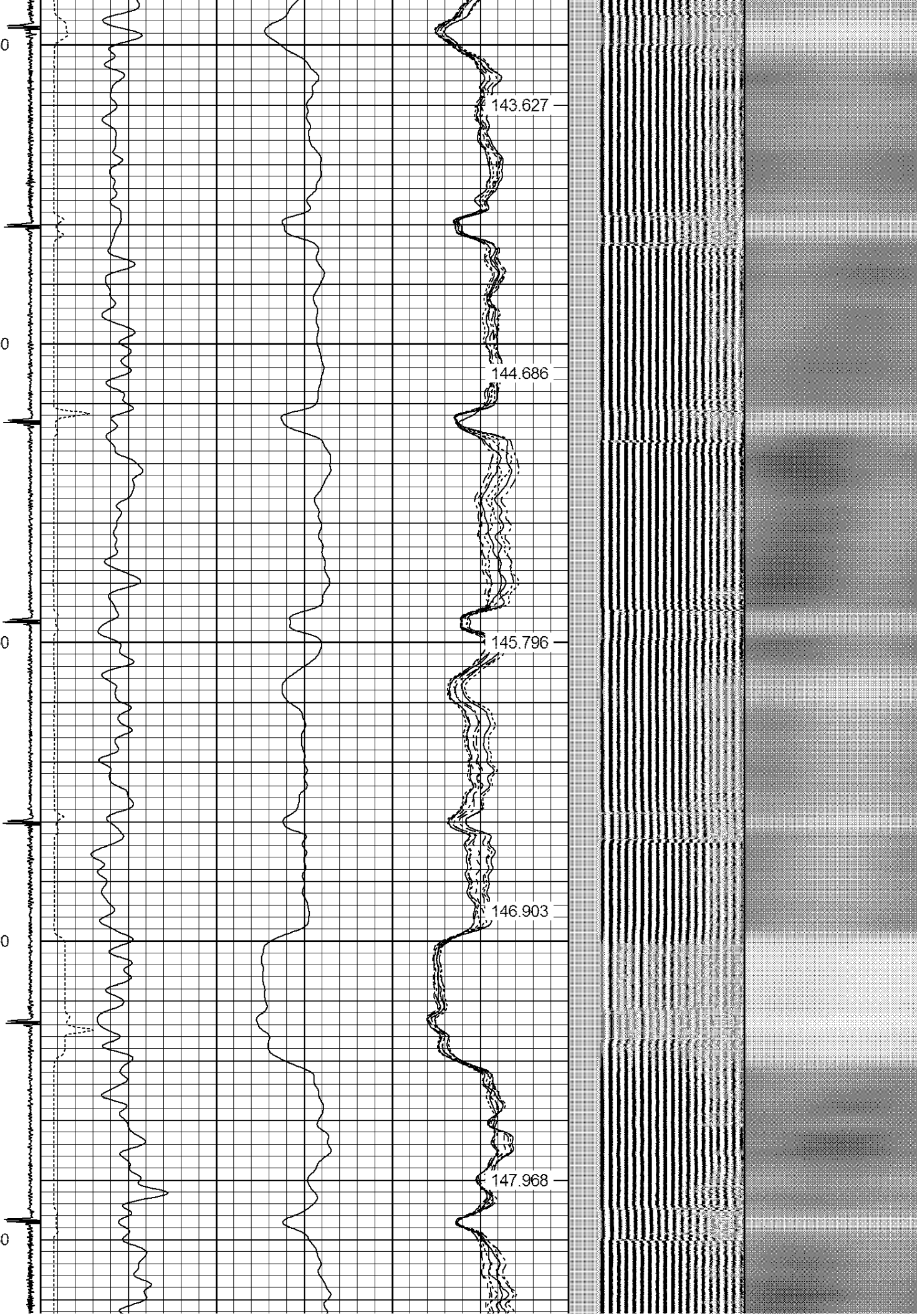
145.796

2300

146.903

2350

147.968



2400

2450

2500

2550

149.011

150.038

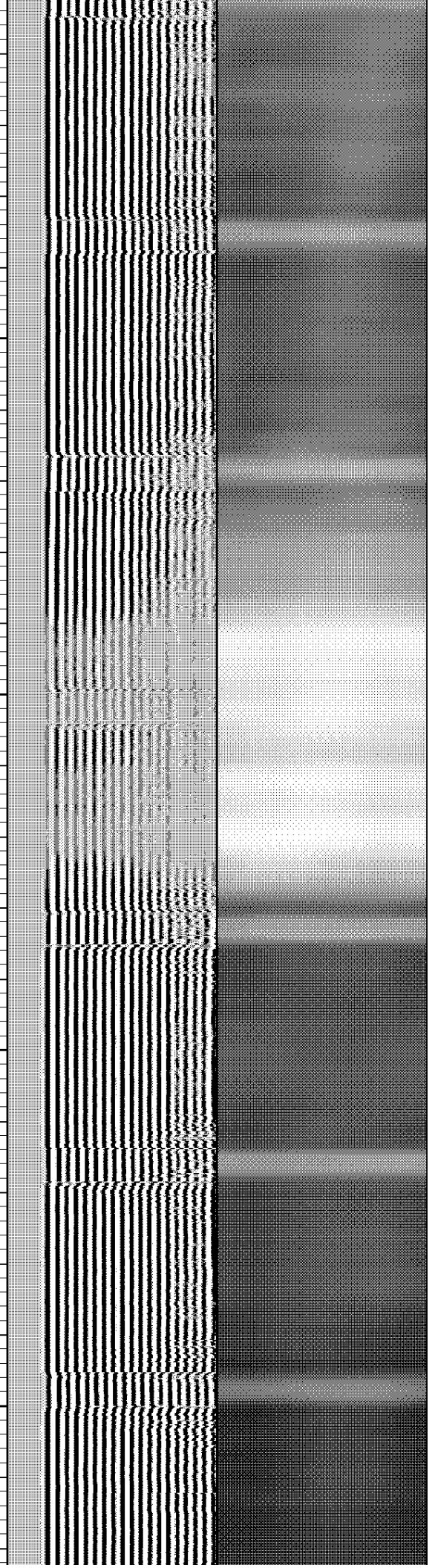
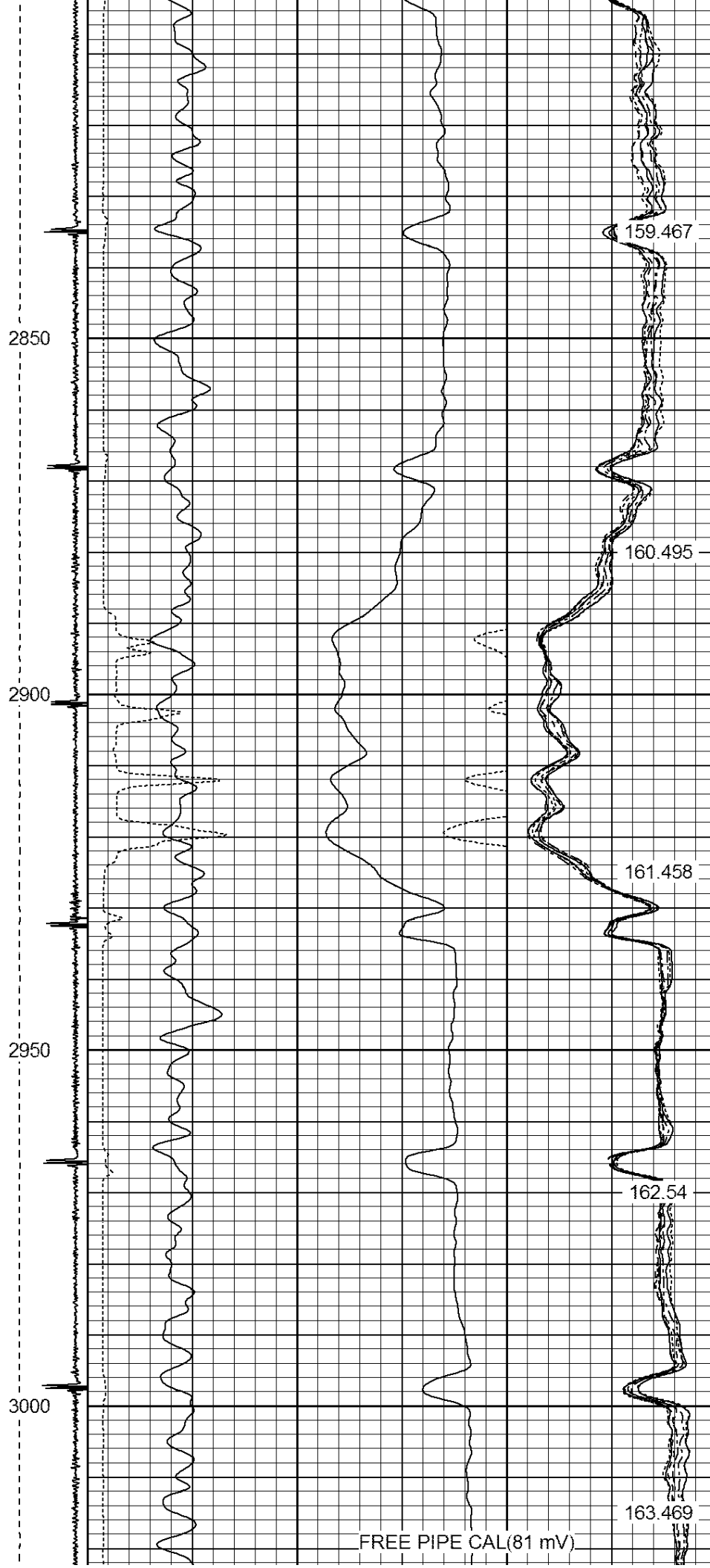
151.12

152.225

153.292







3050

3100

3150

3200

164.539

165.49

166.594

167.667

168.718

3250

3300

3350

3400

3450

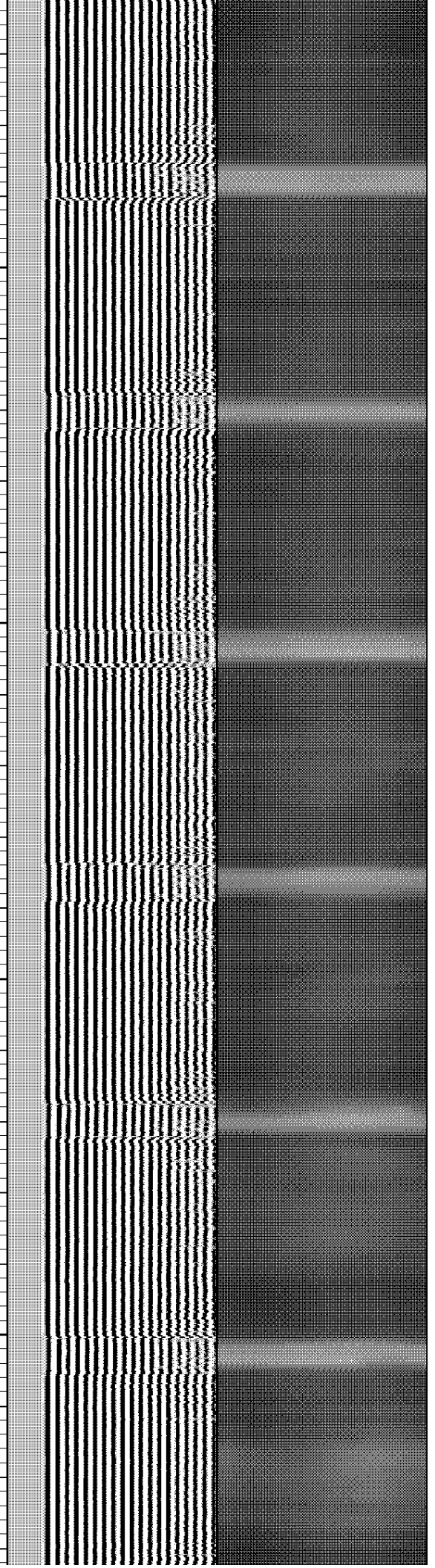
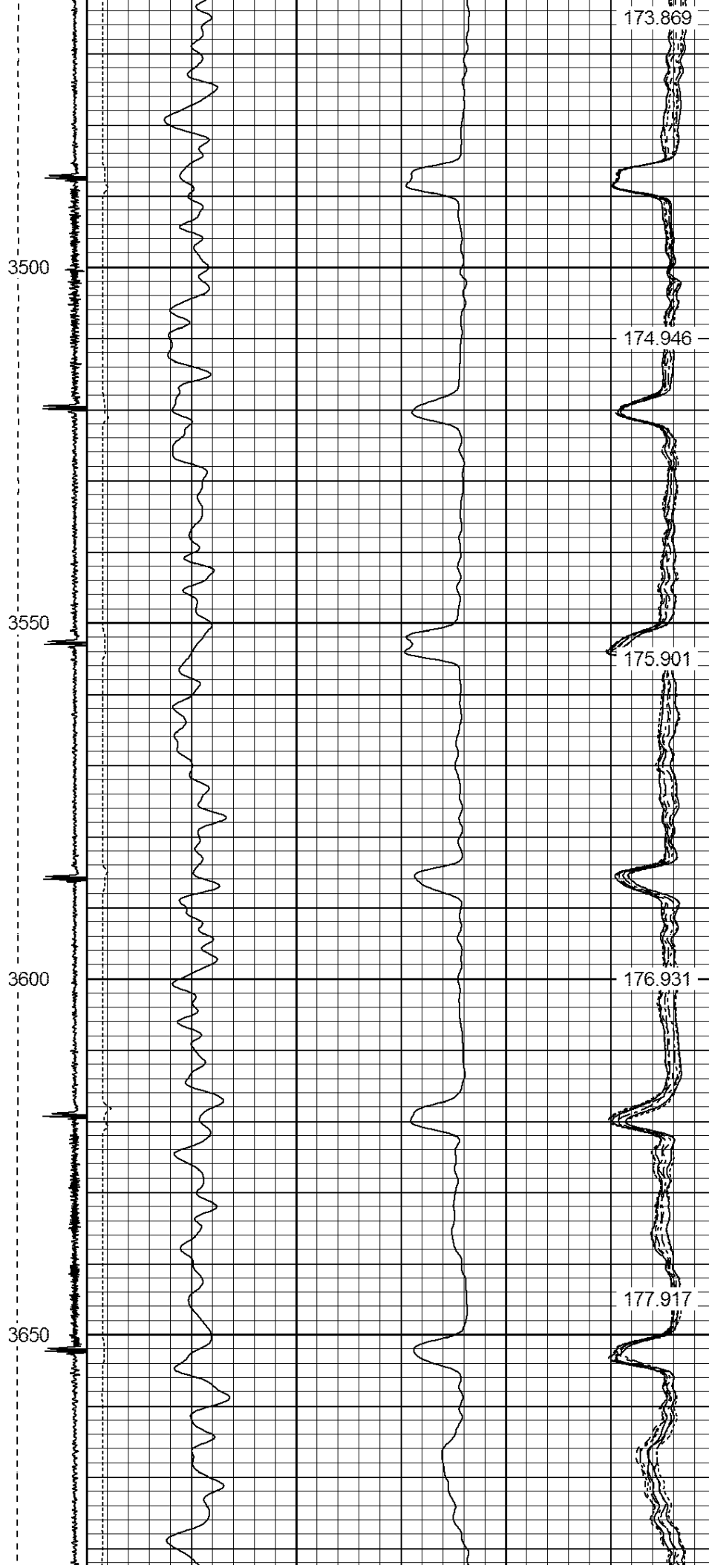
169.748

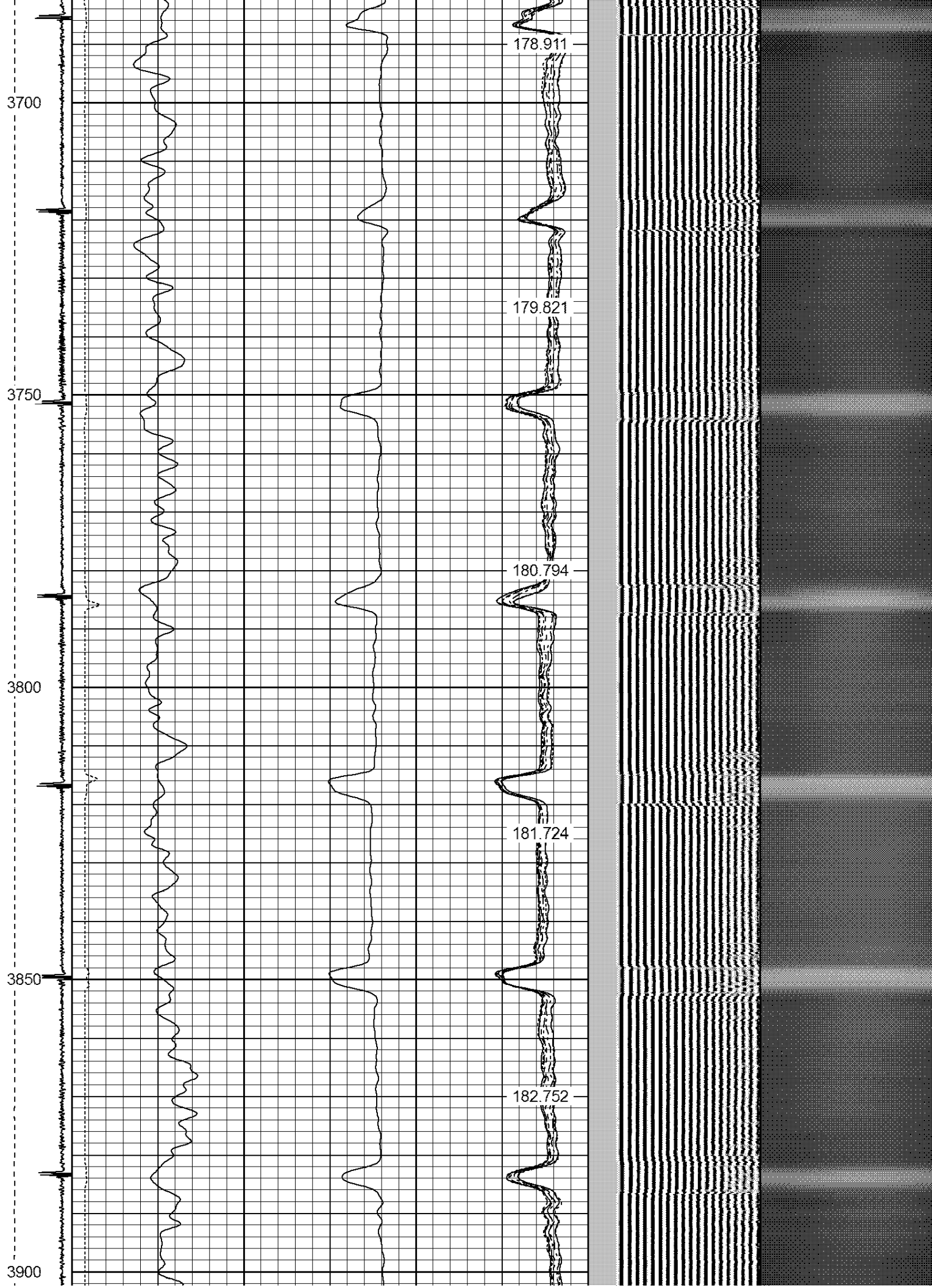
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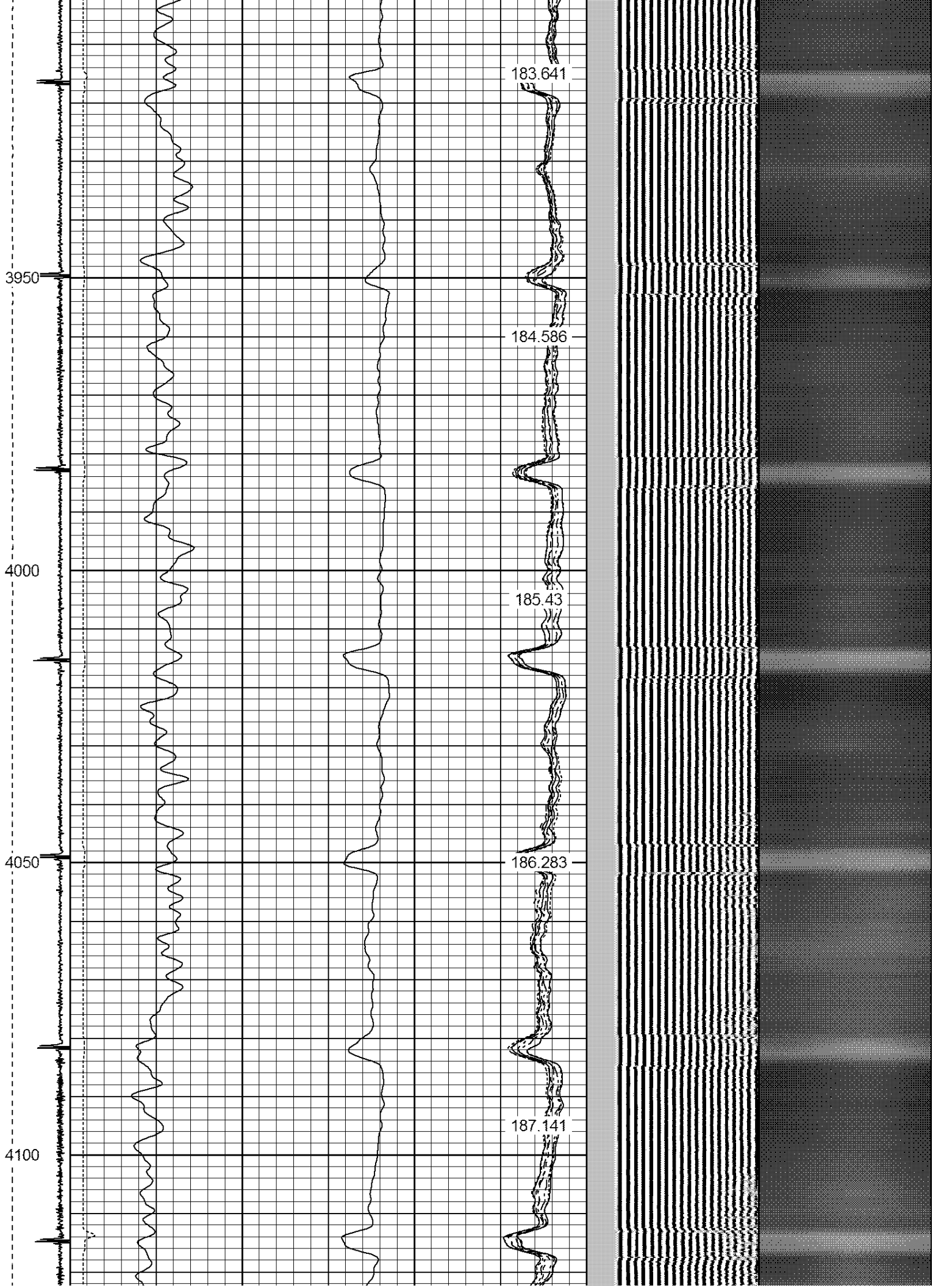
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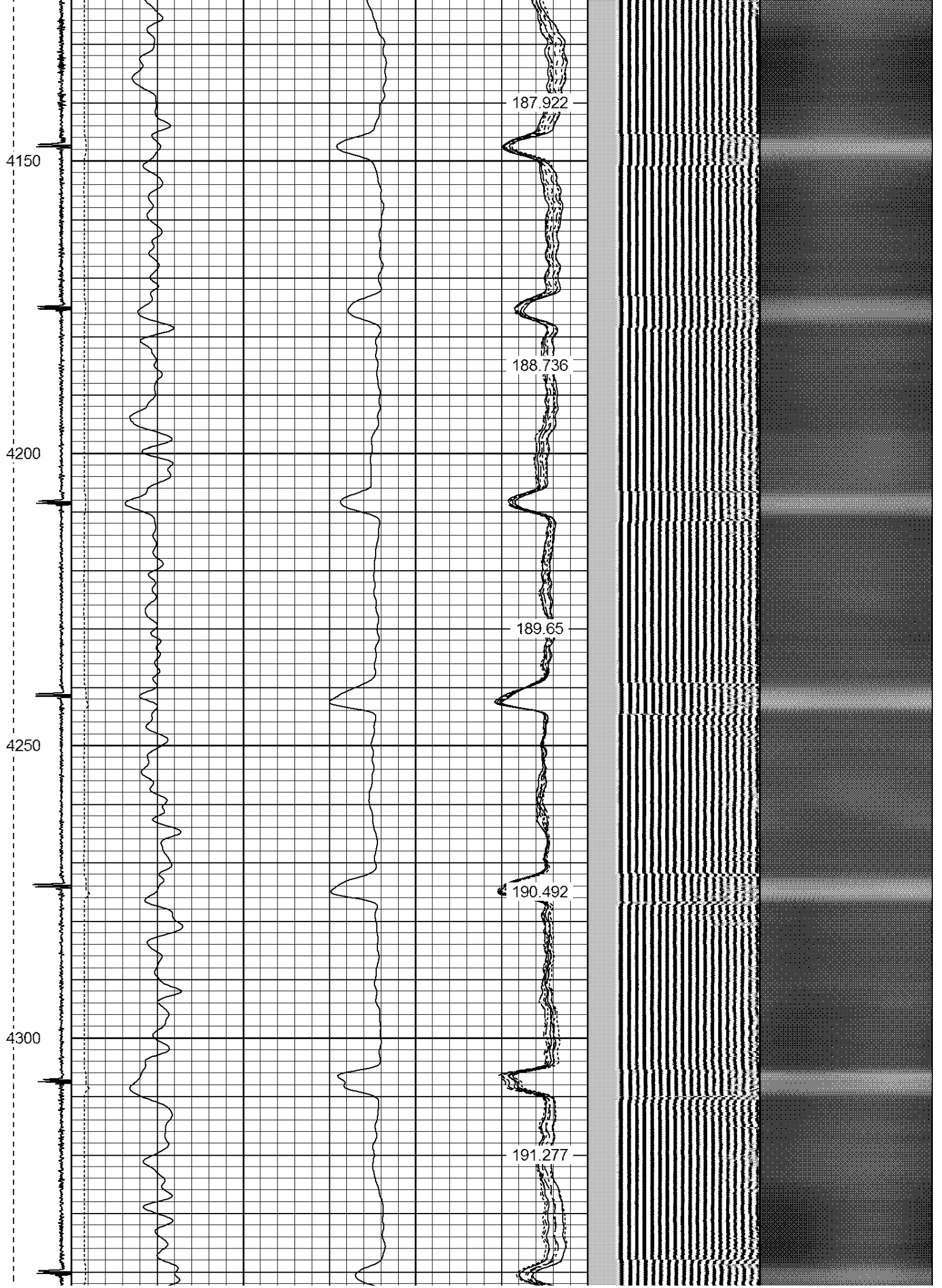
172.807











4350

192.111

4400

192.929

4450

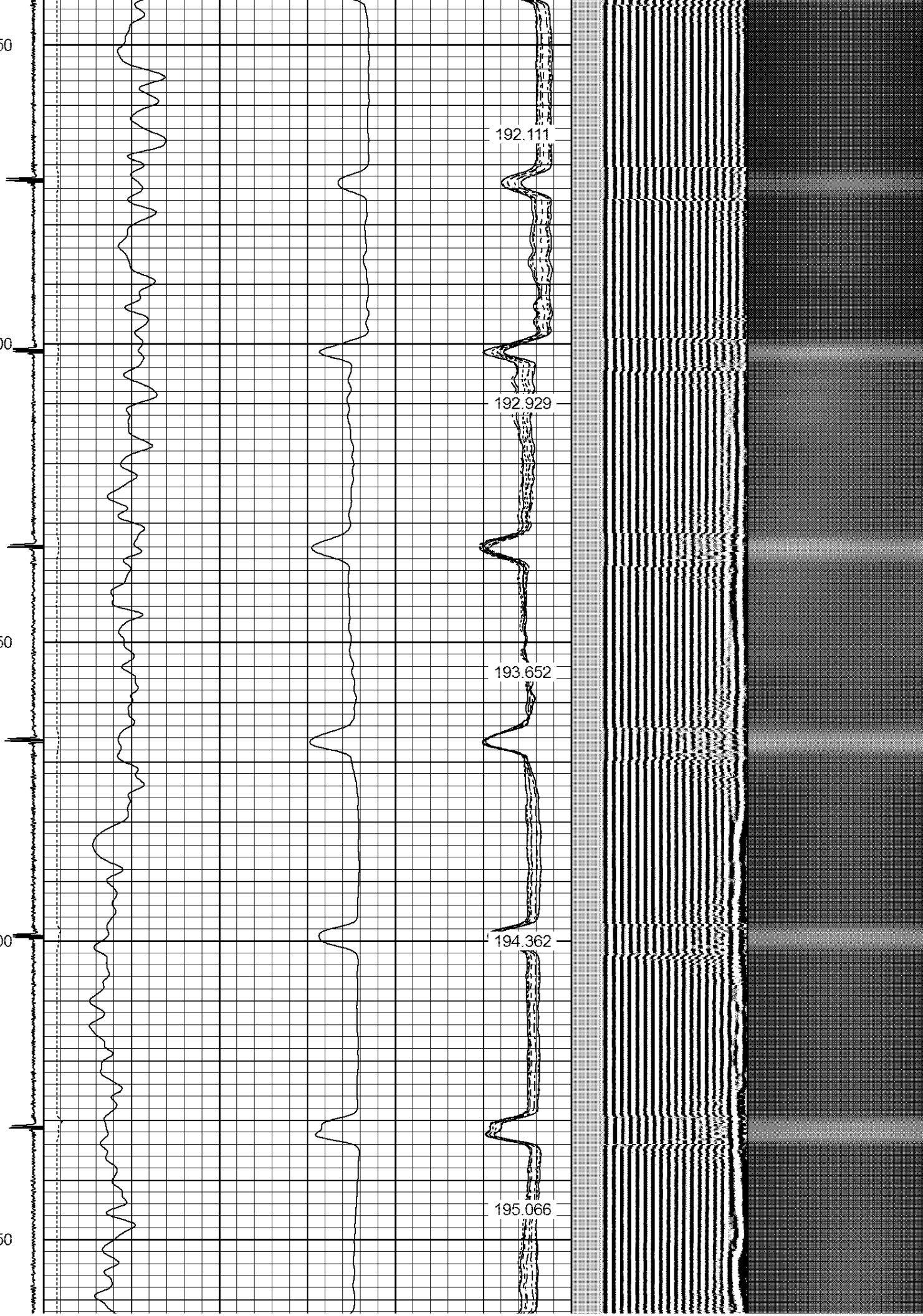
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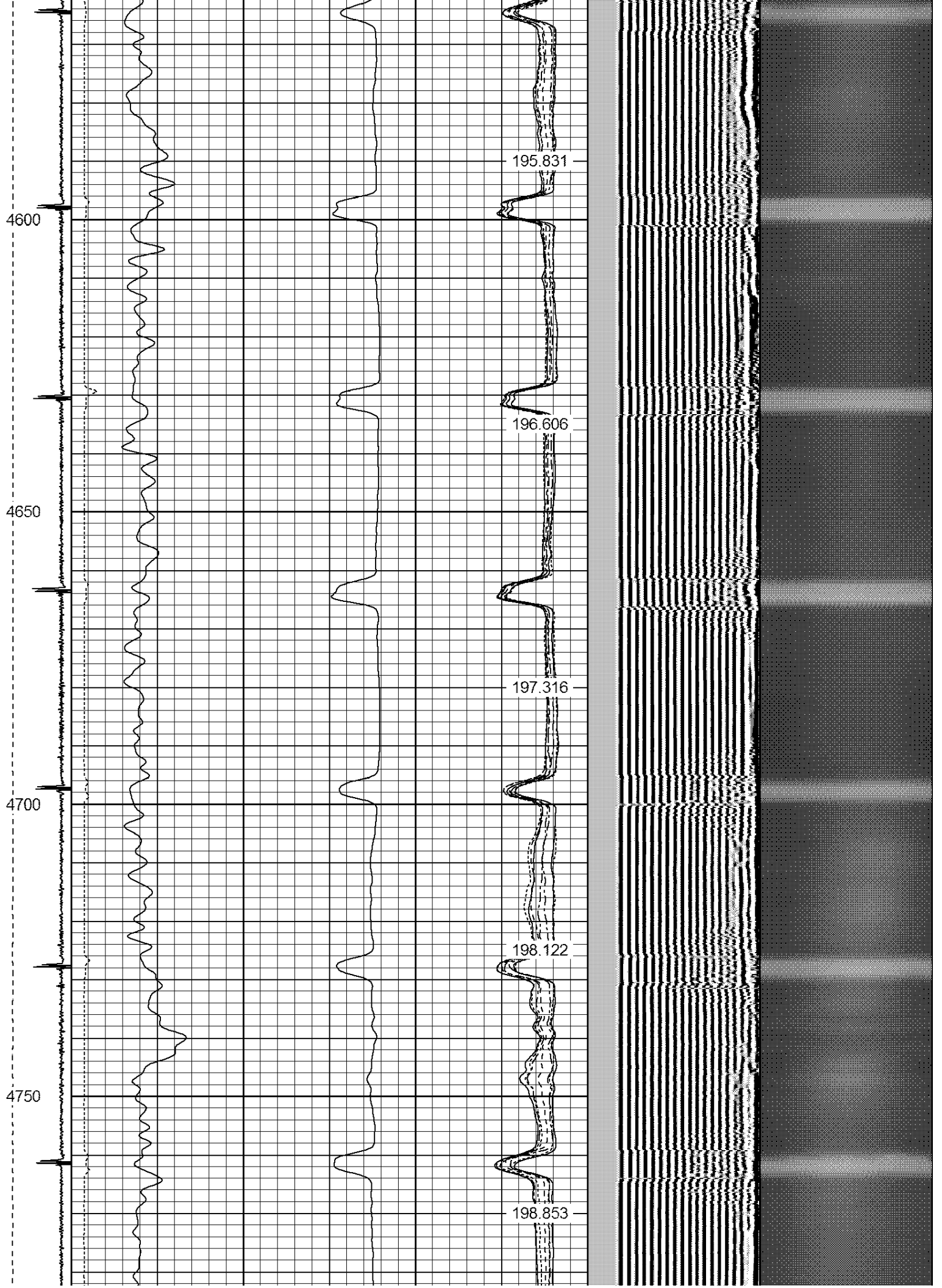
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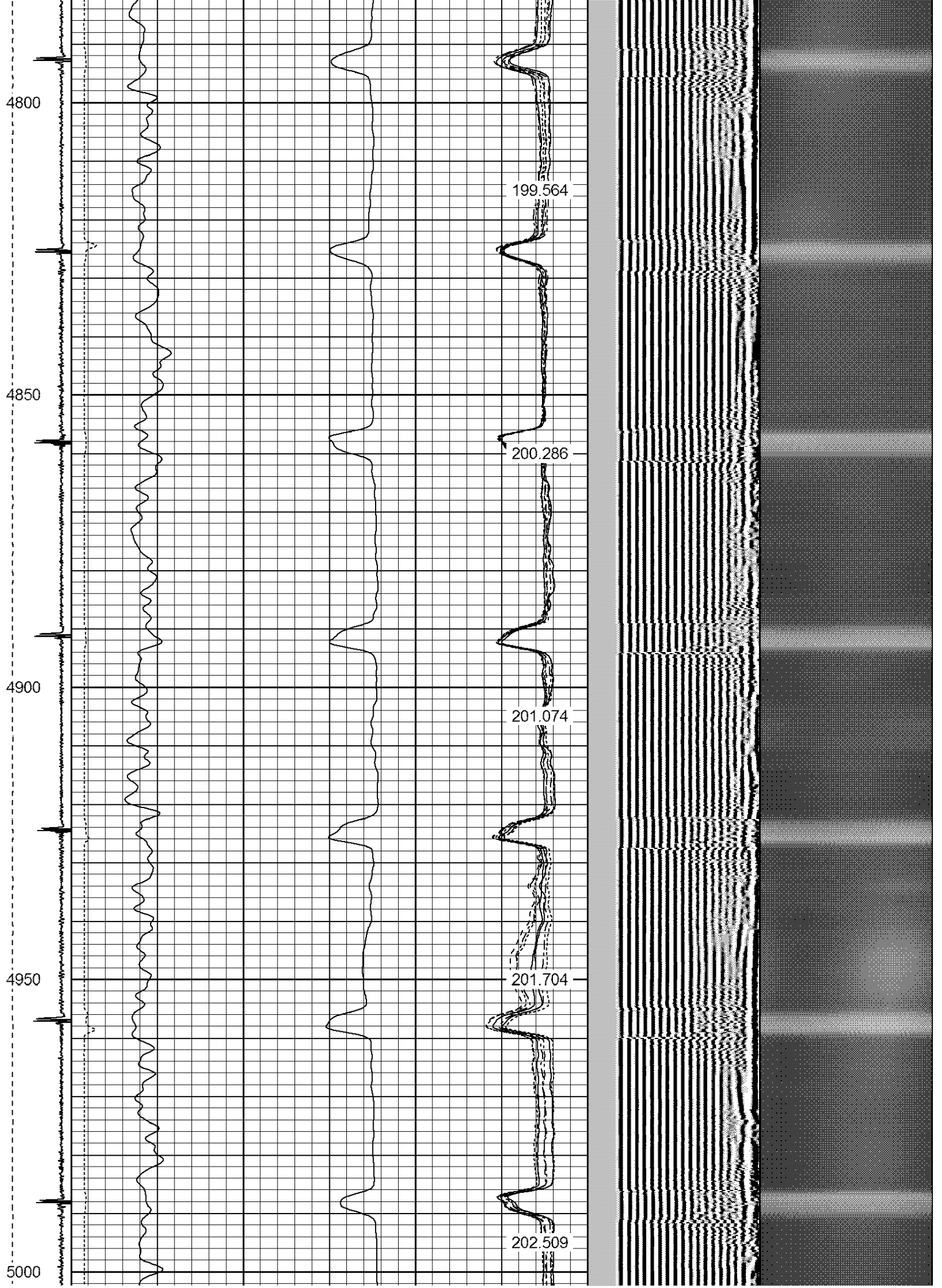
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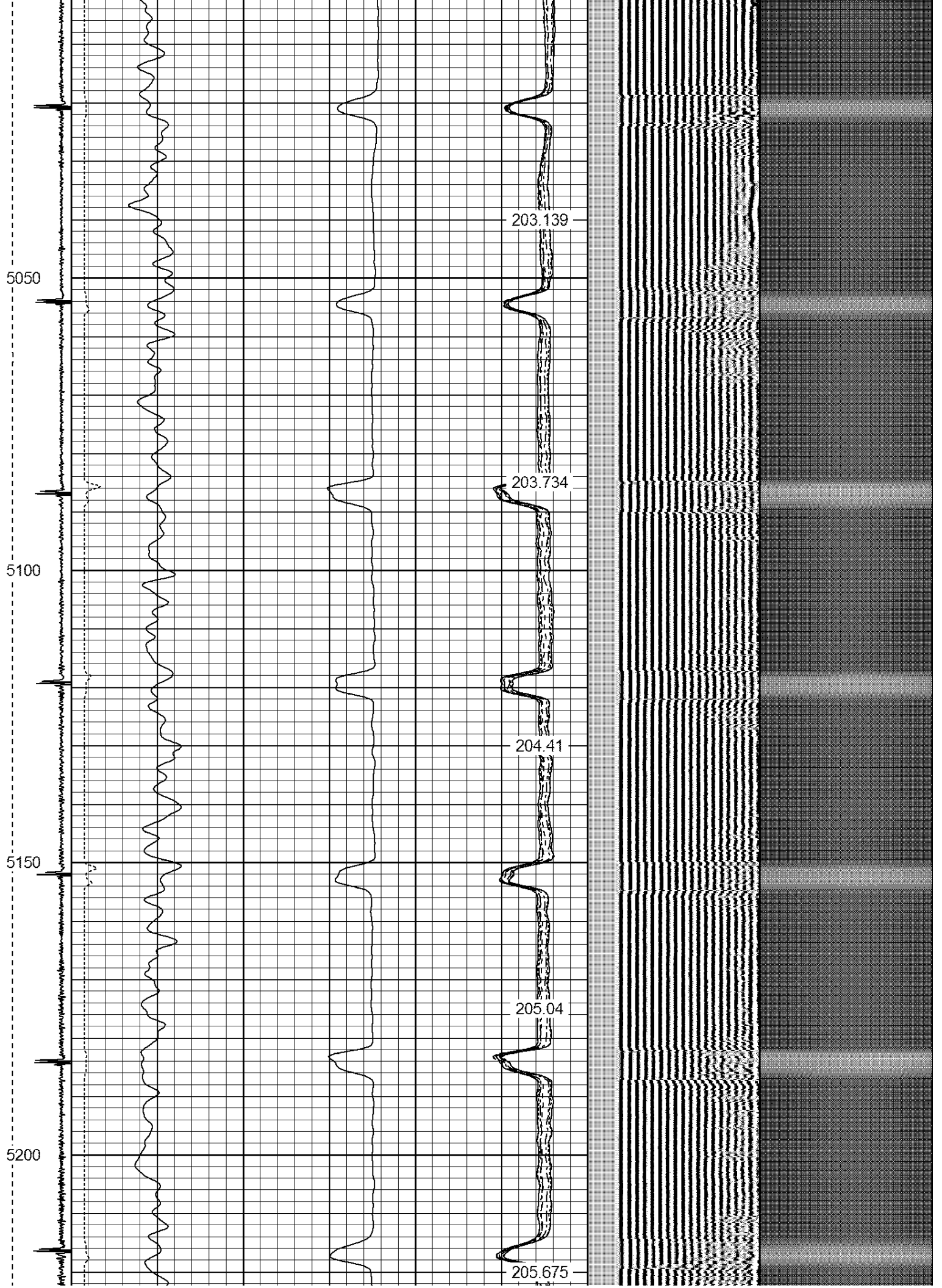
4550

195.066









5250

5300

5350

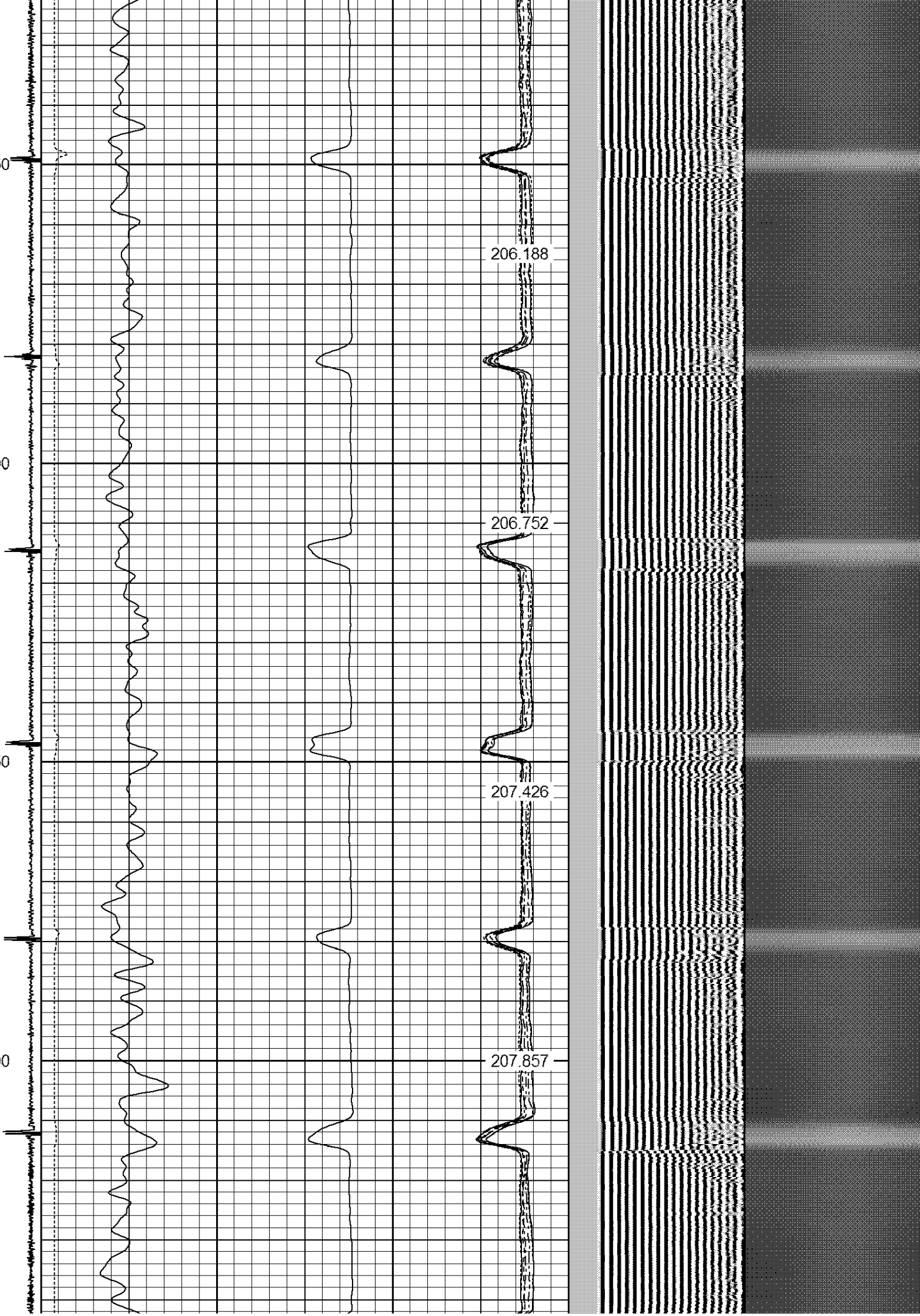
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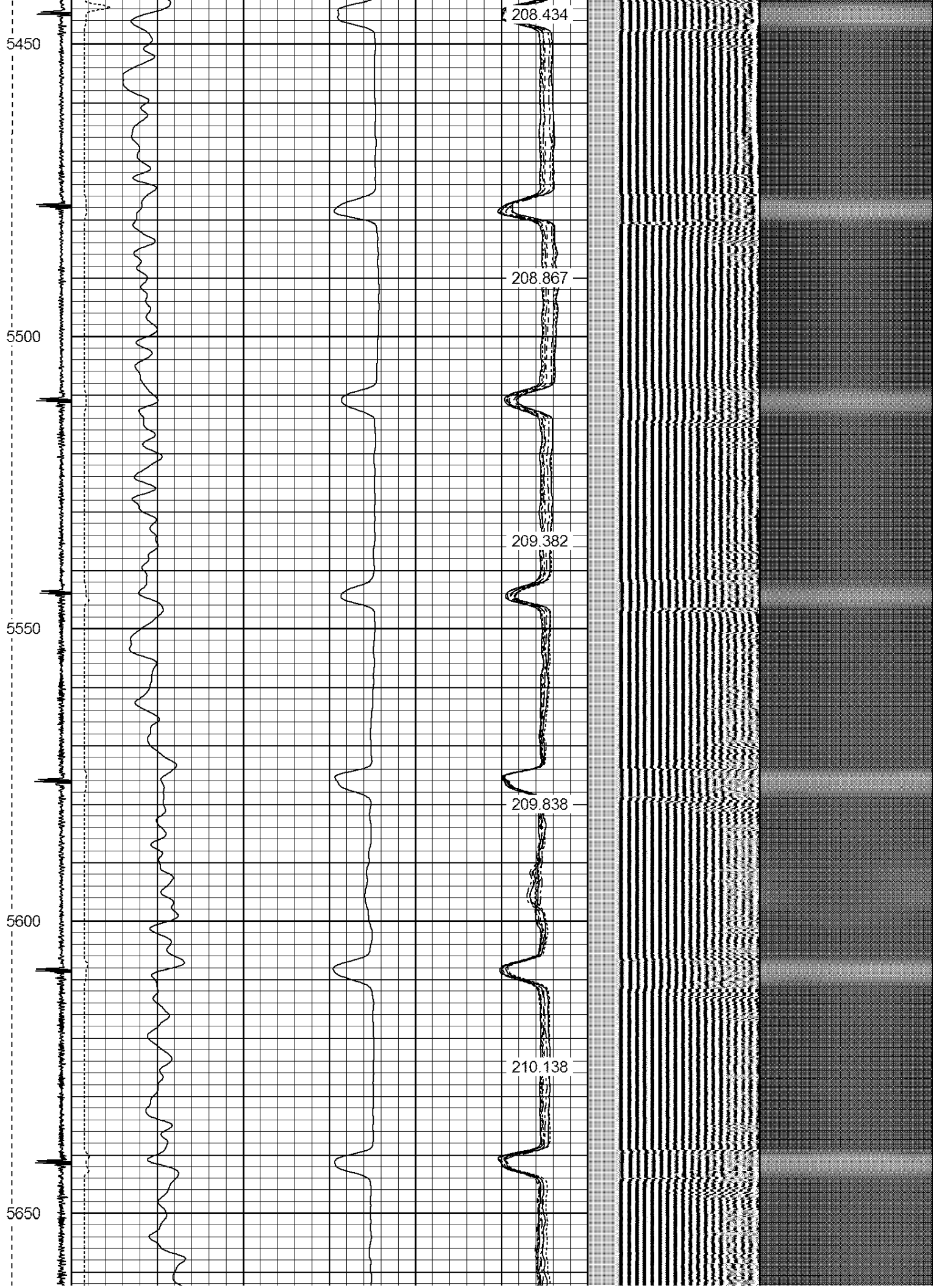
206.188

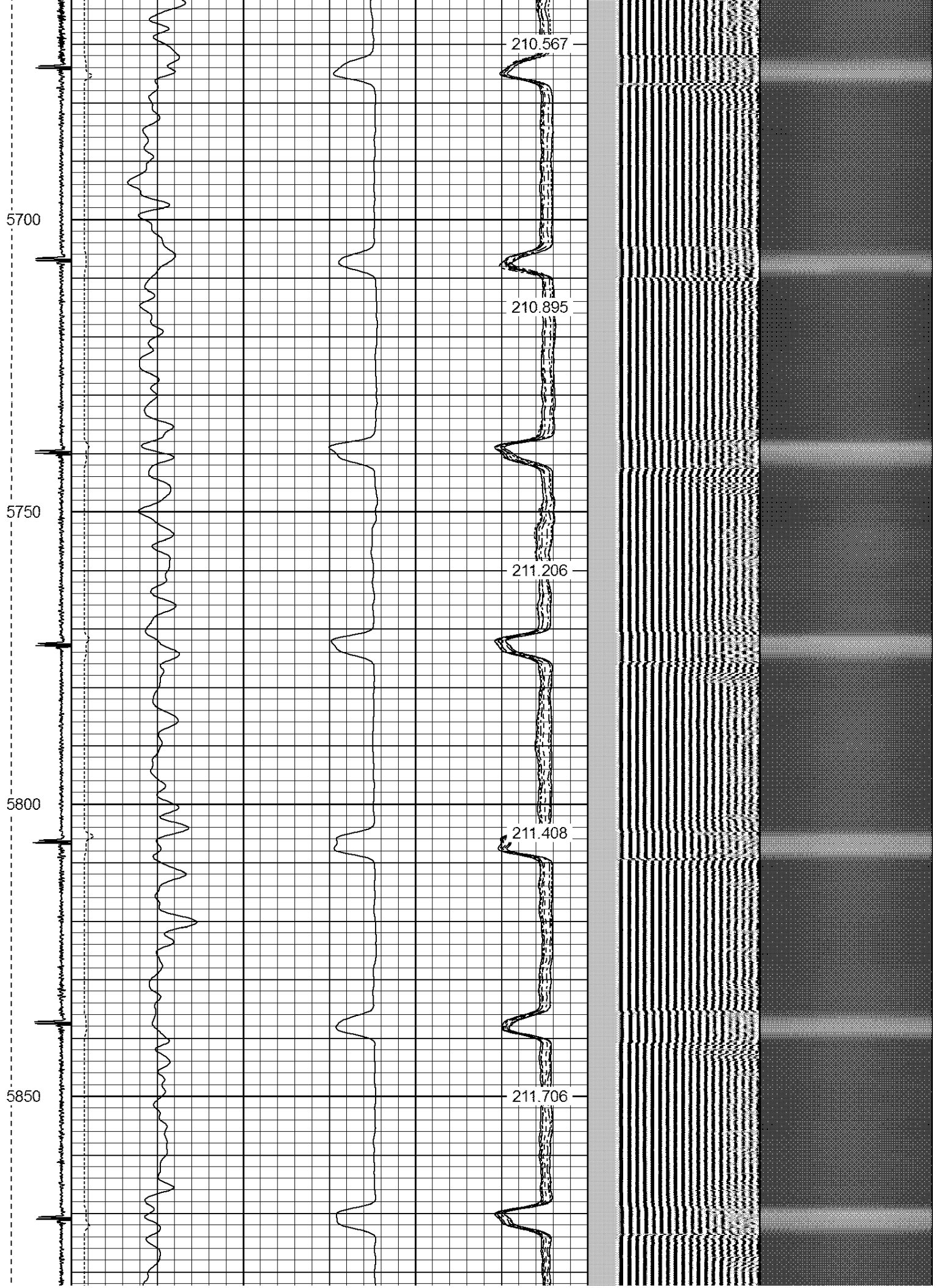
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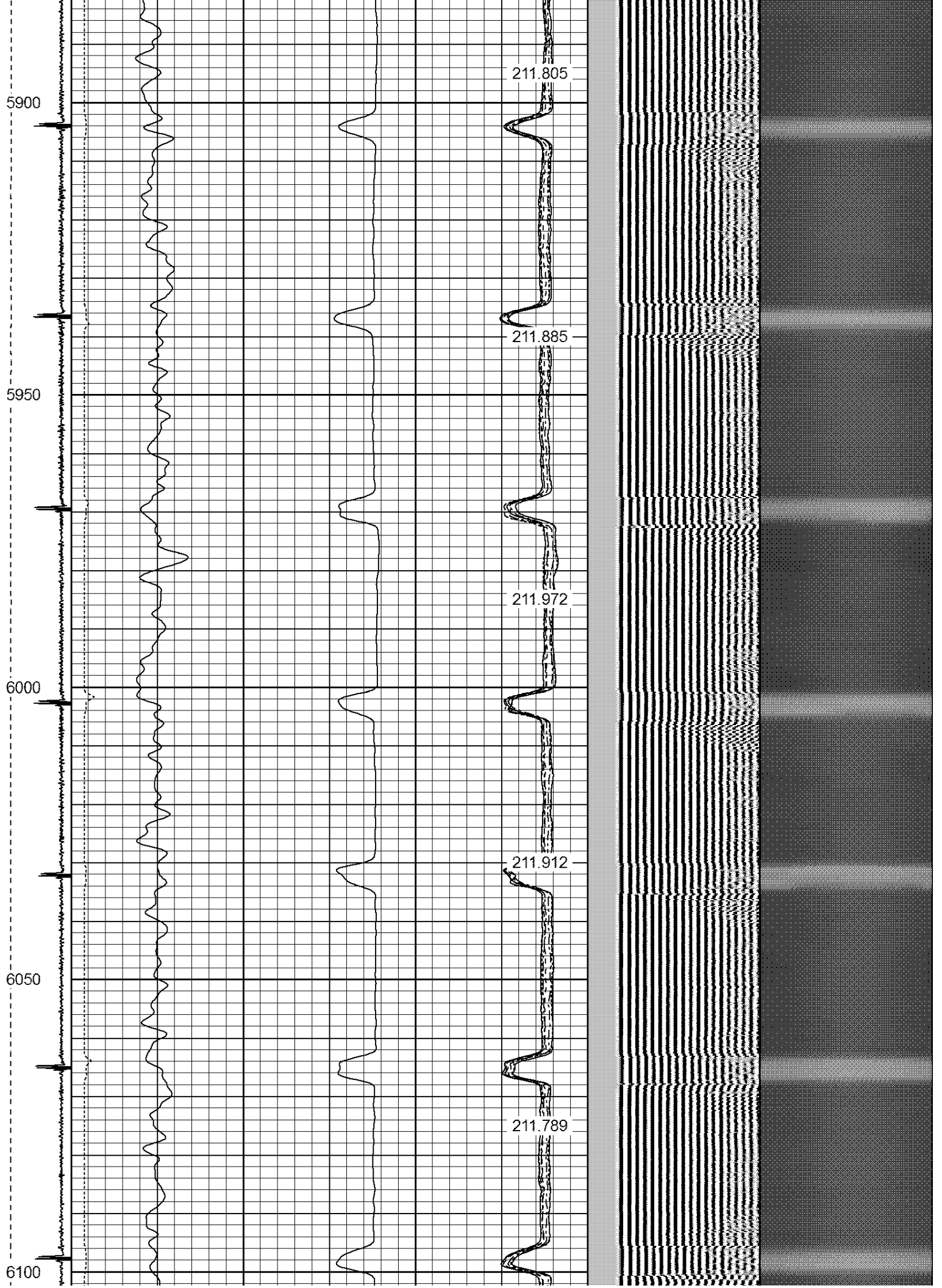
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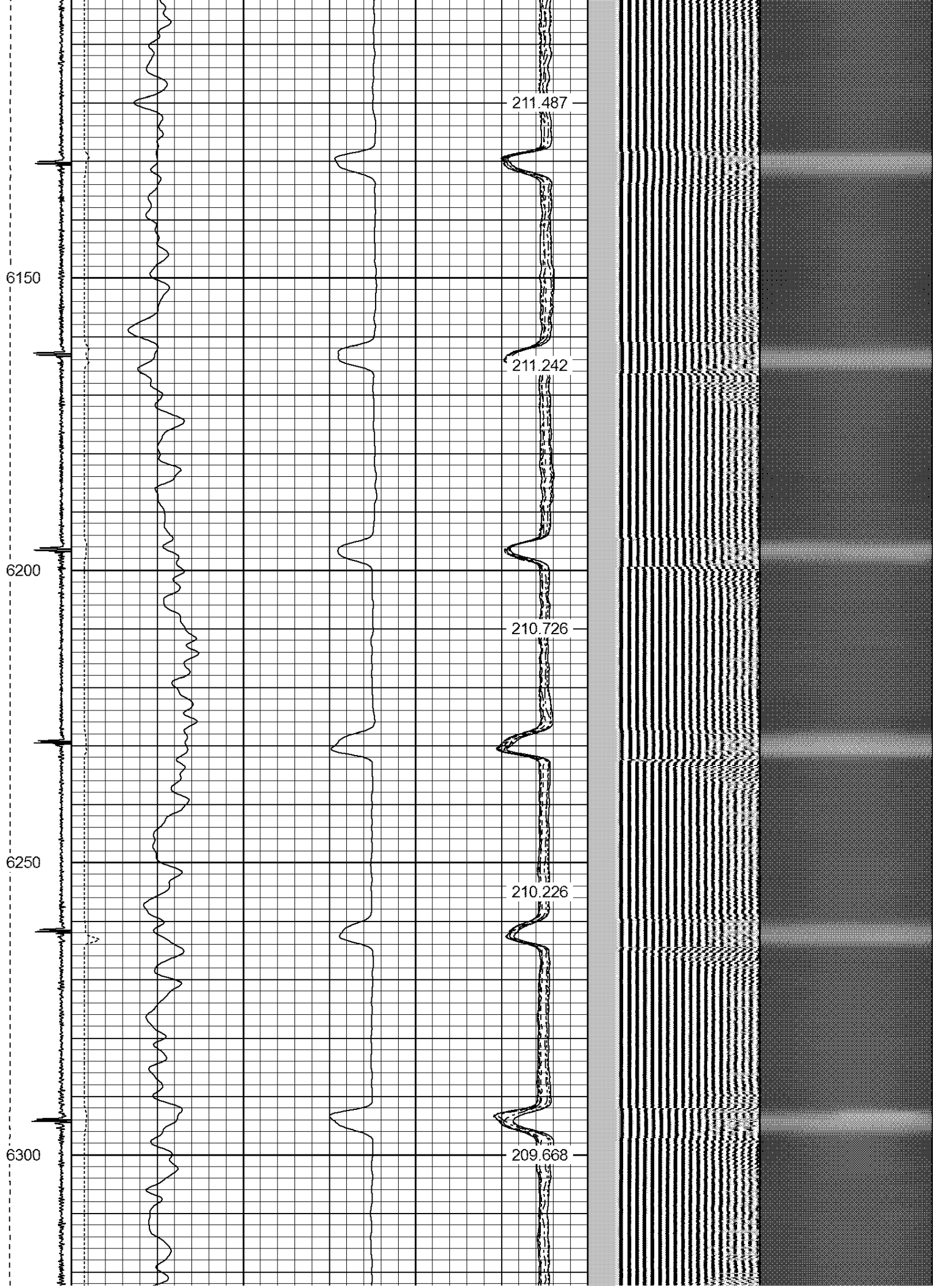
207.857











6350

6400

6450

6500

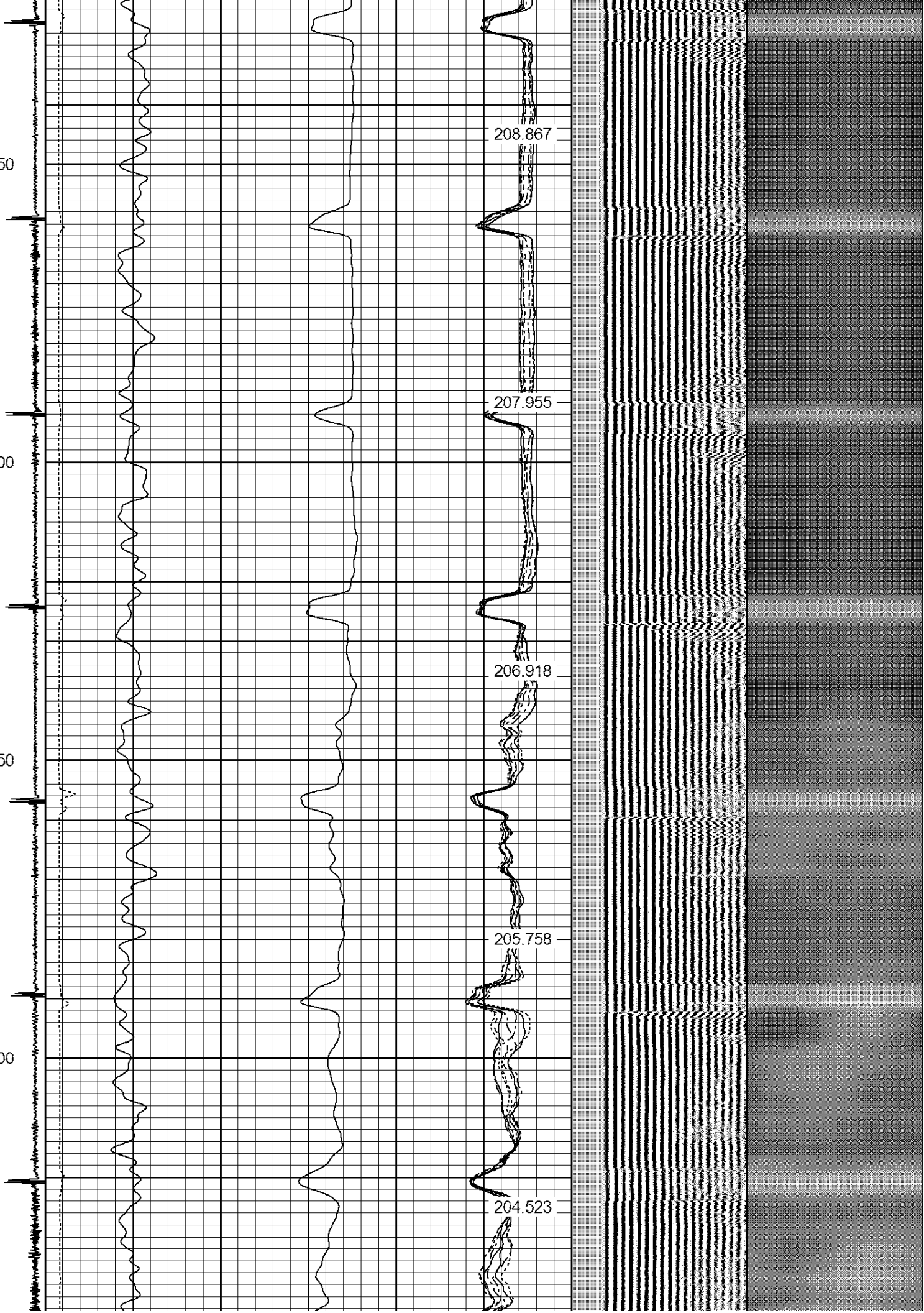
208.867

207.955

206.918

205.758

204.523



6550

6600

6650

6700

6750

203.144

201.427

199.767

TEMPERATURE → 197.624

194.875

← LSPD

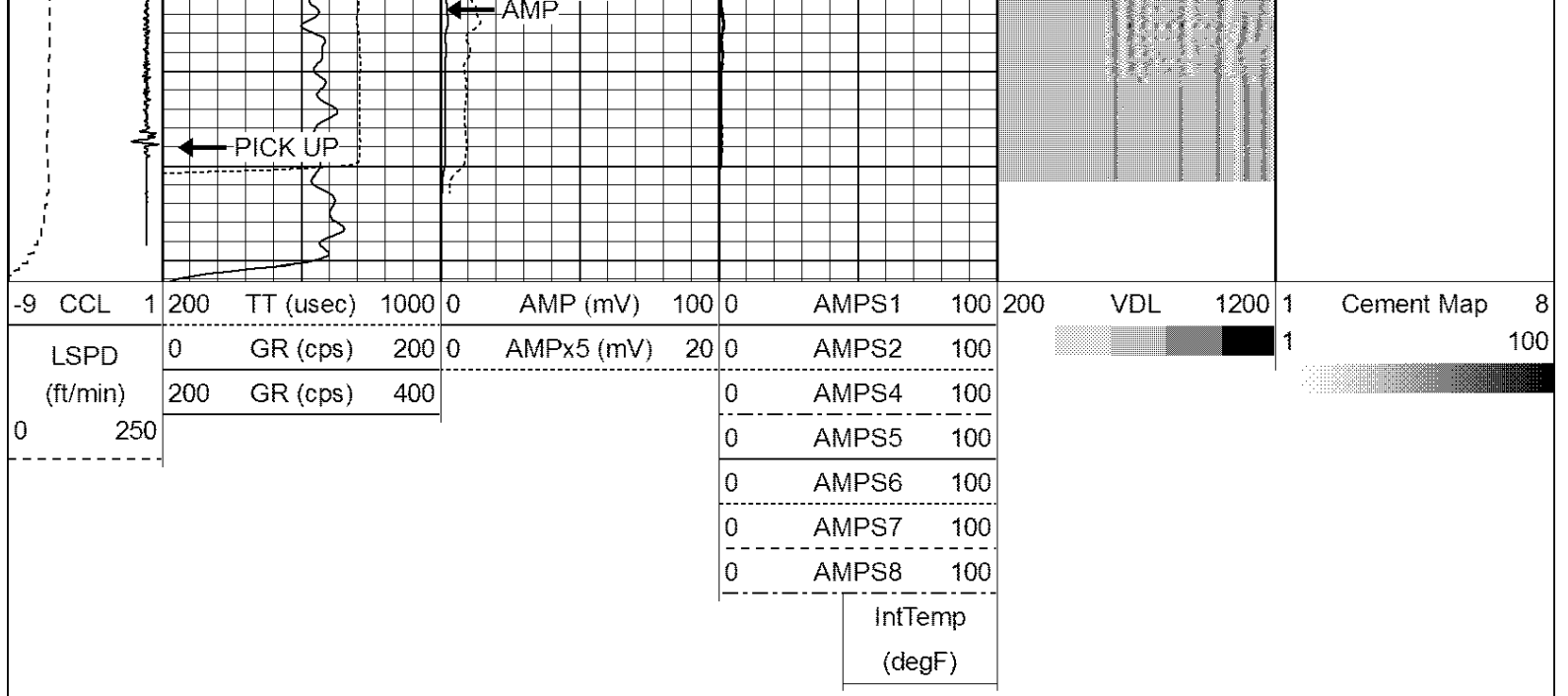
← CCL

← GR

← TT

← AMPx5

← AMPS7
← AMPS6
← AMPS5
← AMPS4
← AMPS2
← AMPS1





WARRIOR

ENERGY SERVICES

Company KERR MCGEE OIL AND GAS

Well MUSE 1

Field WATTENBERG

County WELD

State COLORADO