



RADIAL CEMENT BOND LOG

GAMMA RAY

CCL

Company		Kerr McGee Oil & Gas					
Well		NELSON HAROLD UNIT "A" TRUE #1					
Field		Wattenberg					
County		WELD					
State		CO					
Location:		APL # : 05-123-11548 SE/SE					
Other Services							
Permanent Datum		GL	Elevation				
Log Measured From		KB - 15	4806				
Drilling Measured From		KB	K.B. 4821 D.F. 4820 G.L. 4806				
SEC 31		TWP 3N	RGE 67W				
Run Number		ONE					
Depth Driller		7890					
Depth Logger		7540					
Bottom Logged Interval		7540					
Top Log Interval		SURFACE					
Open Hole Size		4.5					
Type Fluid		WATER					
Density / Viscosity		NA					
Max. Recorded Temp.		223					
Estimated Cement Top		3710/SURFACE					
Time Well Ready		NA					
Time Logger on Bottom		NA					
Equipment Number		7770					
Location		GREELEY					
Recorded By		C.JONES					
Witnessed By		R.RIVERA					
Borehole Record		Tubing Record					
Run Number	Bit	From	To	Size	Weight	From	To
ONE				2.38	4.7#	15	7713
TWO							
Casing Record	Size	Wgt/Ft	Top	Bottom			
Surface String	12.25	36#	15	563			
Prot. String							
Production String	4.5	11.6#	15	7890			
Liner							

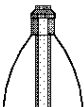
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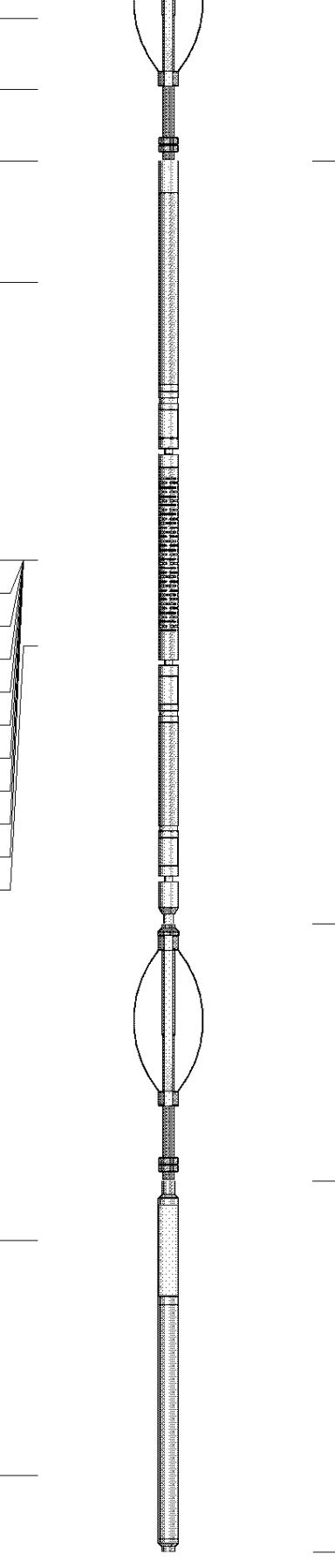
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

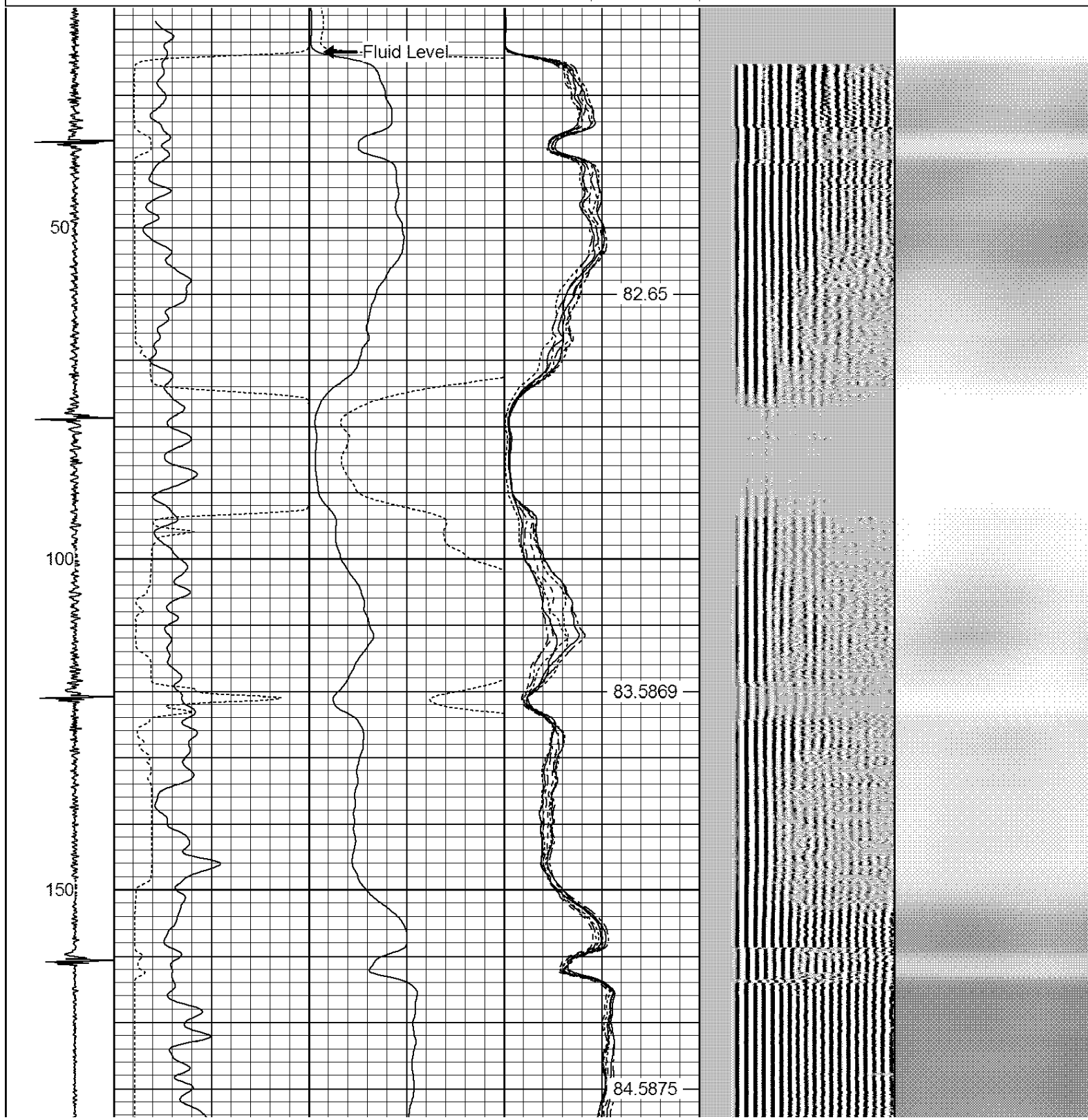
RAN CBL TO VERIFY CEMENT COVERAGE.

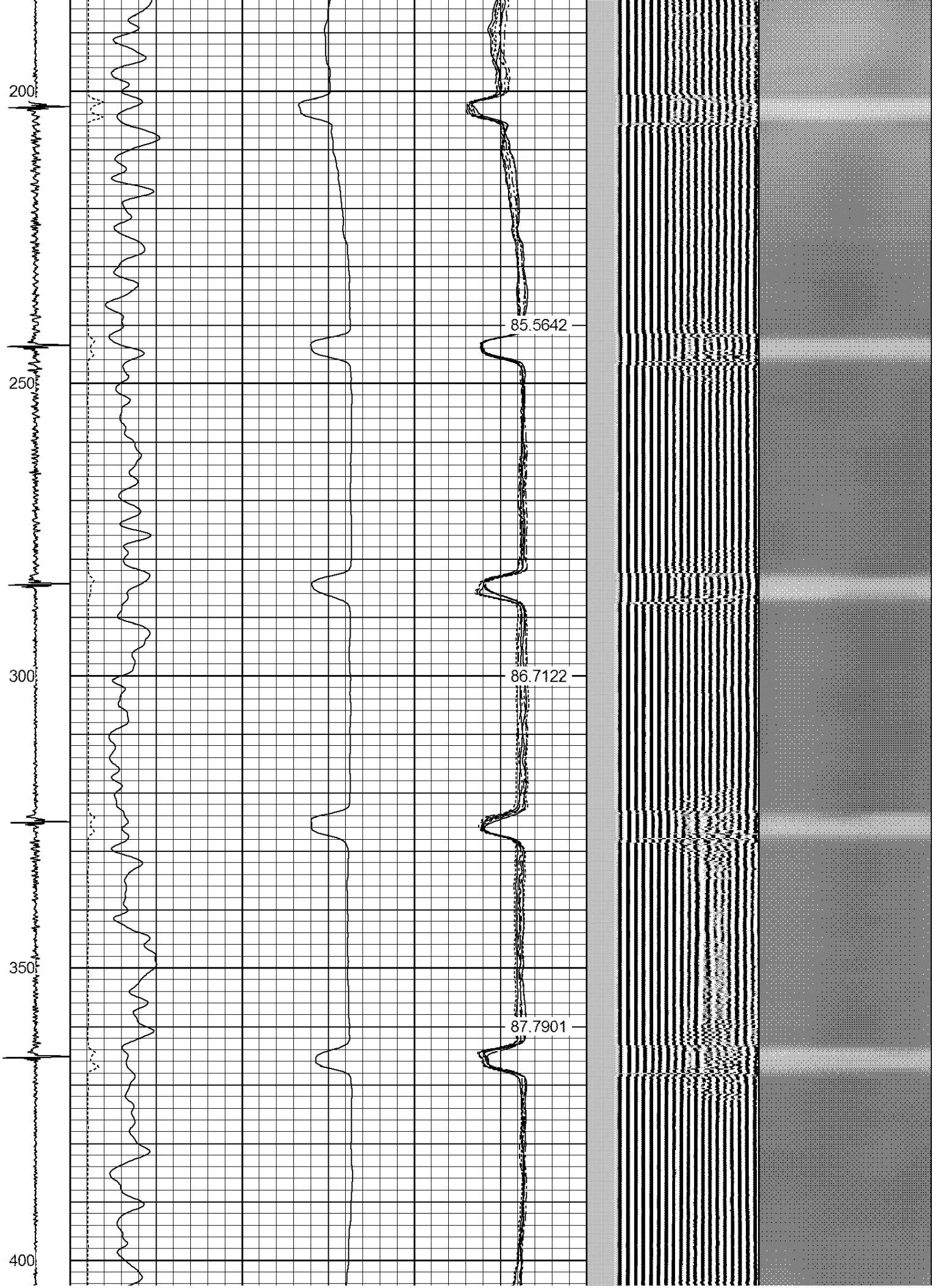
THANK YOU FOR USING WARRIOR ENERGY SERVICES!

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

CNLSC	17.92		CNT-Probe_B (275) 6 bow centralizer	3.00	2.75	18.00
CNSSC	17.08					
HEADVOLT	16.25					
IntTemp	14.83					
WVF3FT	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					
WVF5FT	10.58					
			RBT-Probe (Base) Probe Radli Bond Tool with Digital Telemetry	8.92	2.75	90.00
			CENT-Probe (PT_MONO2)	3.00	2.75	35.00
CCL	3.64					
			GR-Probe (275) Probe 2.75"	4.33	2.75	30.00
GR	0.90					
Dataset: harold nelson unit a true 1.db: field/well/run1/pass5 Total Length: 19.25 ft Total Weight: 173.00 lb O.D. 2.75 in						

-9	CCL	5	200	TT (usec)	800	0	AMP (mV)	100	0	AMPS1	100	200	VDL	1200	1	Cement Map	8
LSPD			0	GR (GAPI)	200	0	AMPx5 (mV)	20	0	AMPS2	100				1		100
(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)							







650

700

750

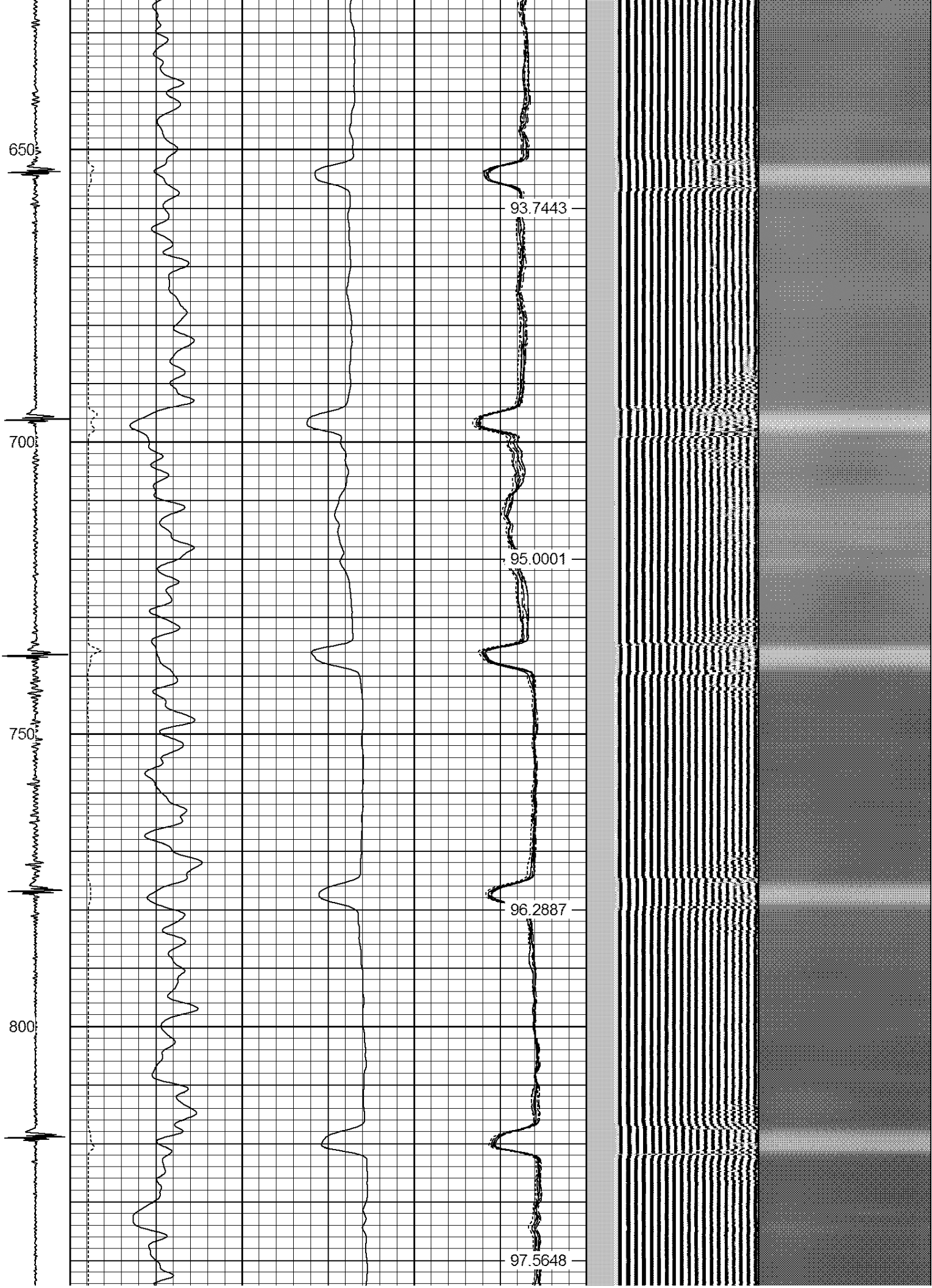
800

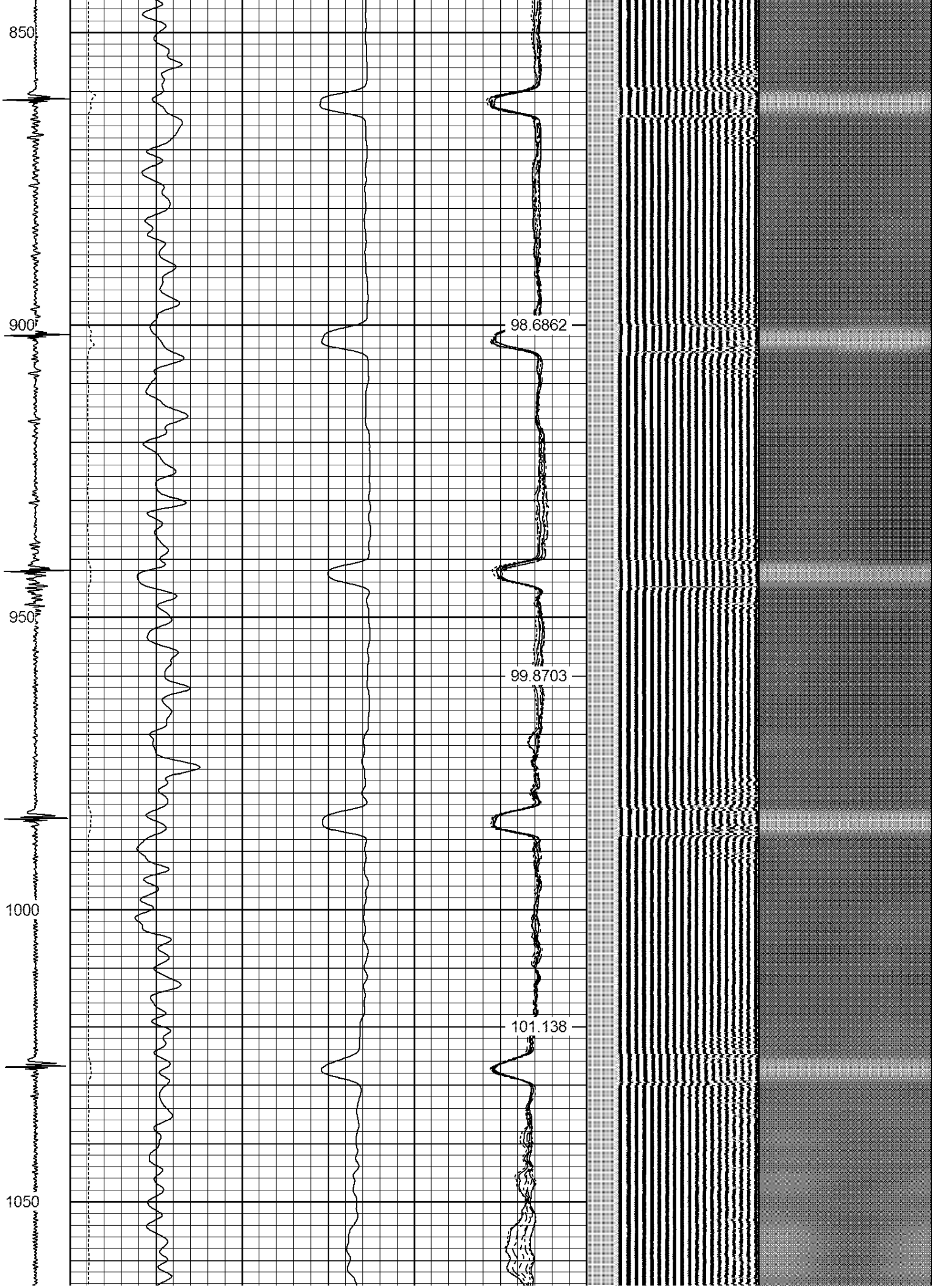
93.7443

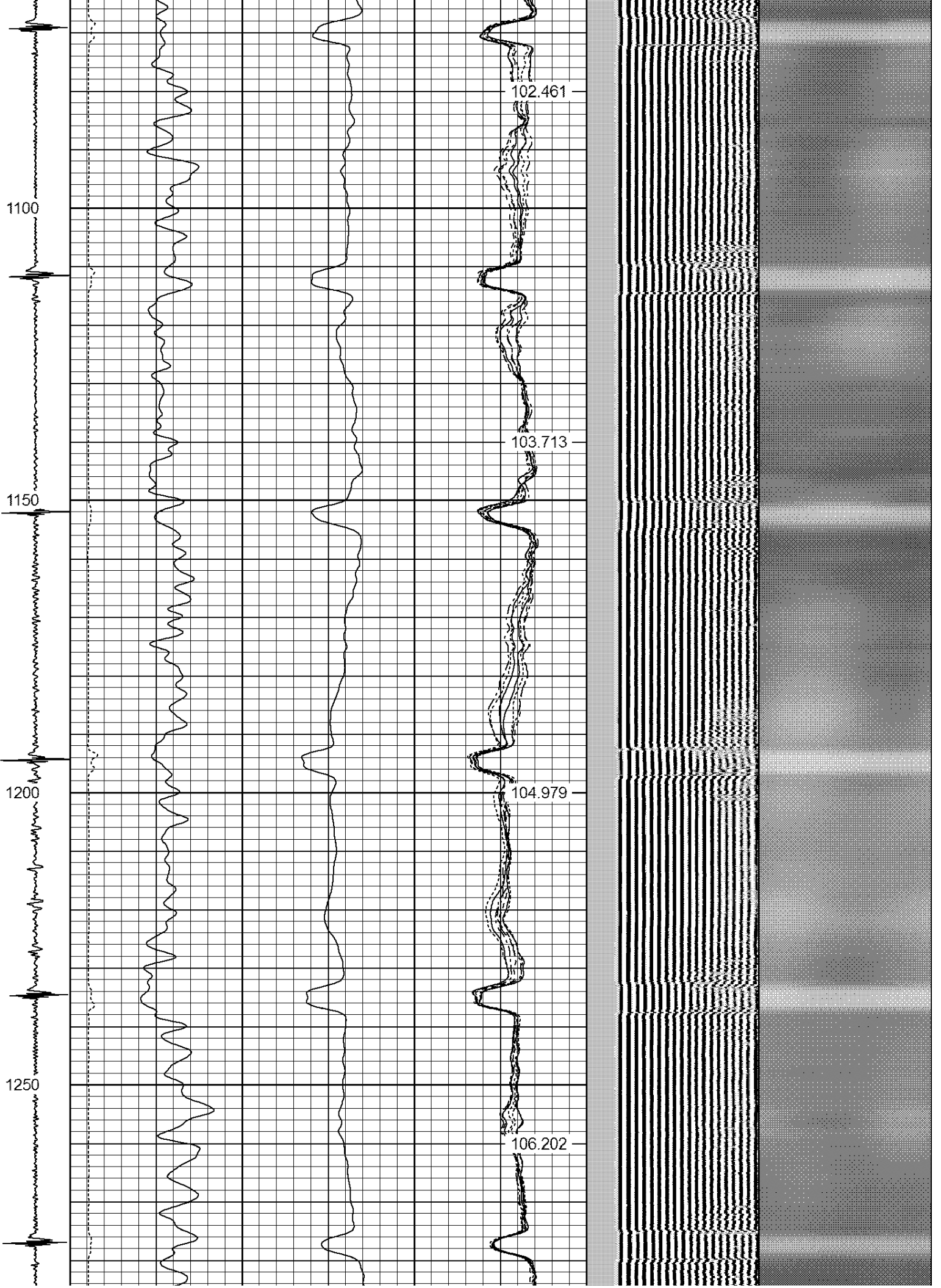
95.0001

96.2887

97.5648







1300

1350

1400

1450

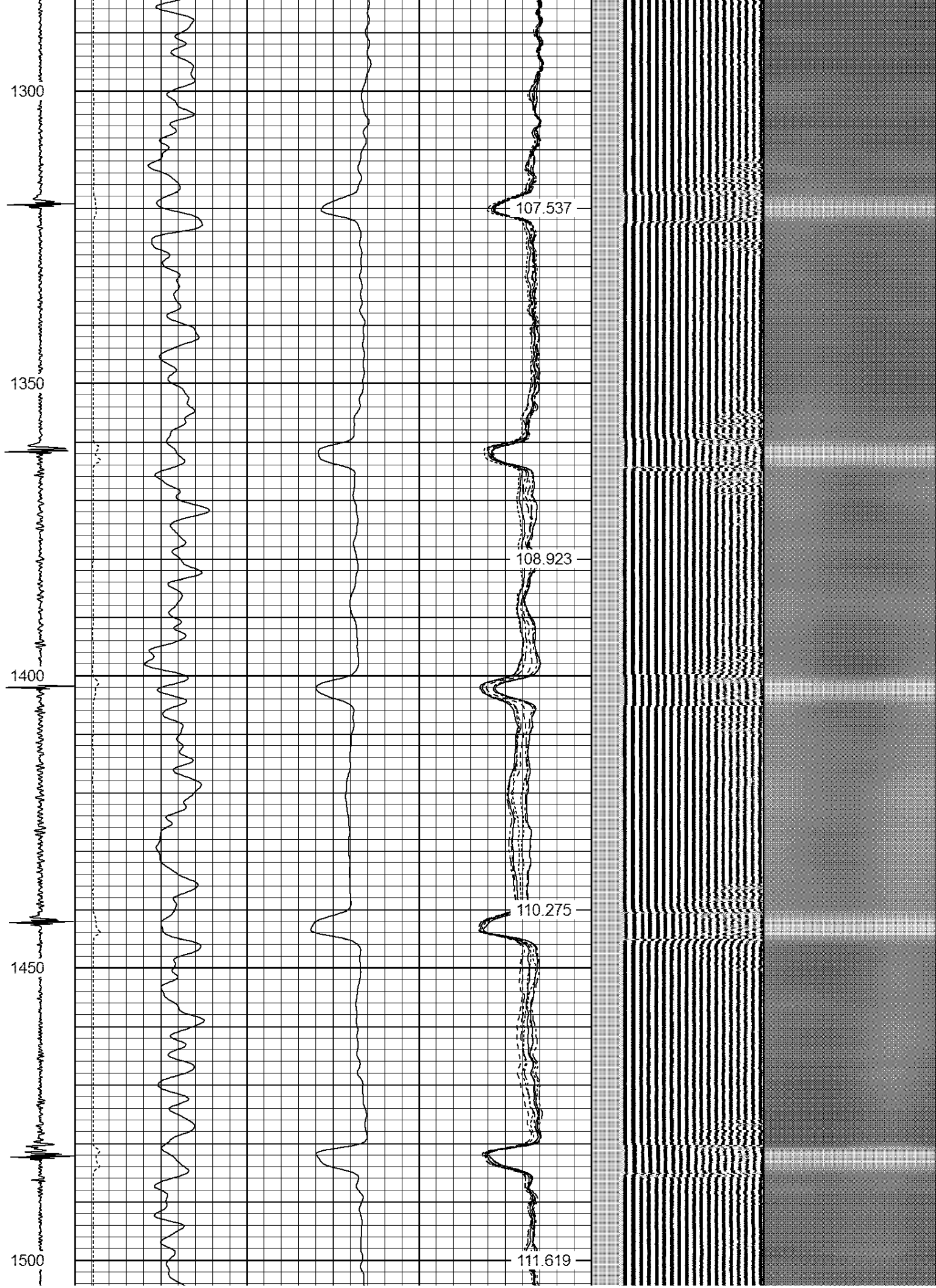
1500

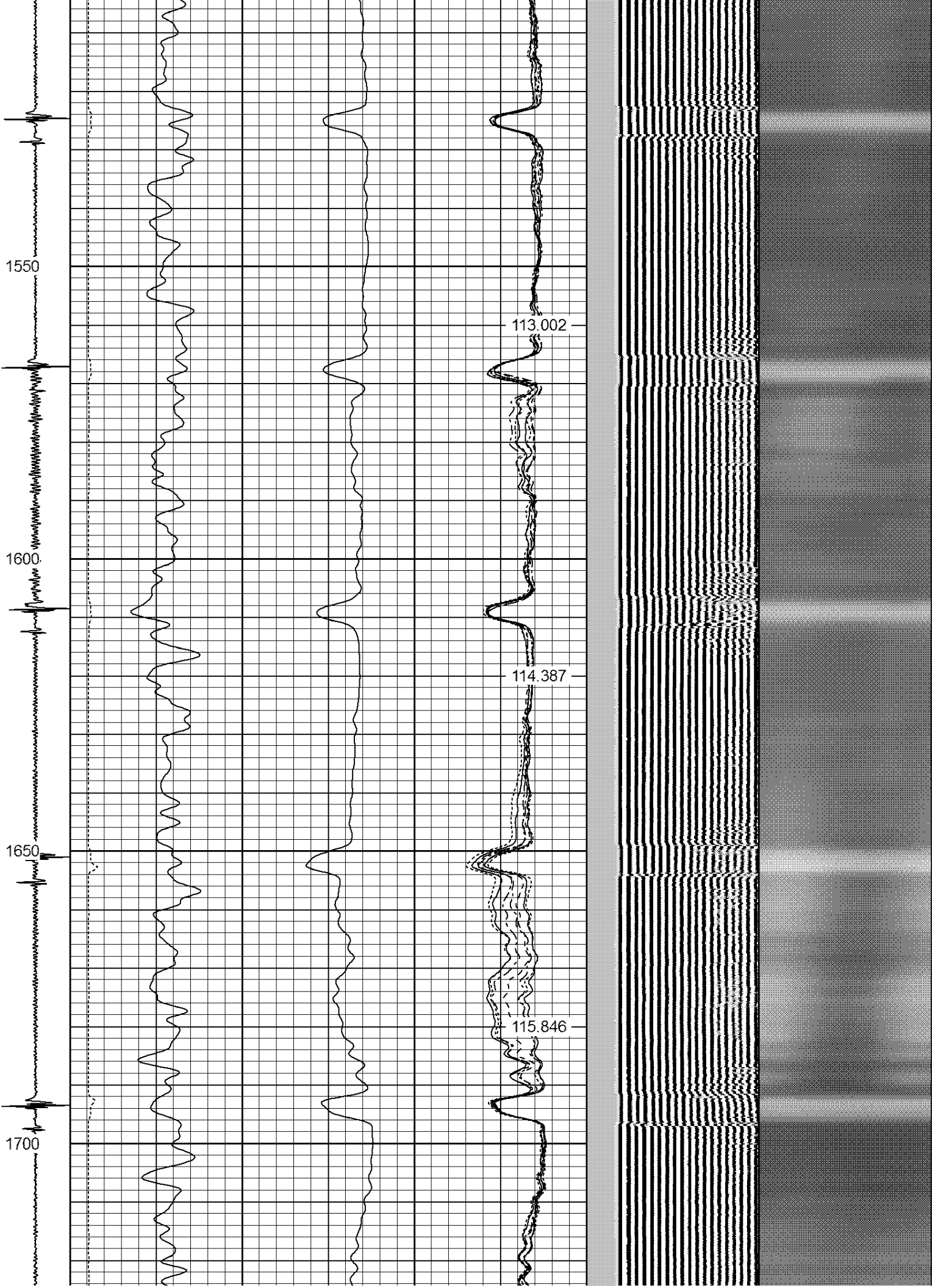
107.537

108.923

110.275

111.619





1750

1800

1850

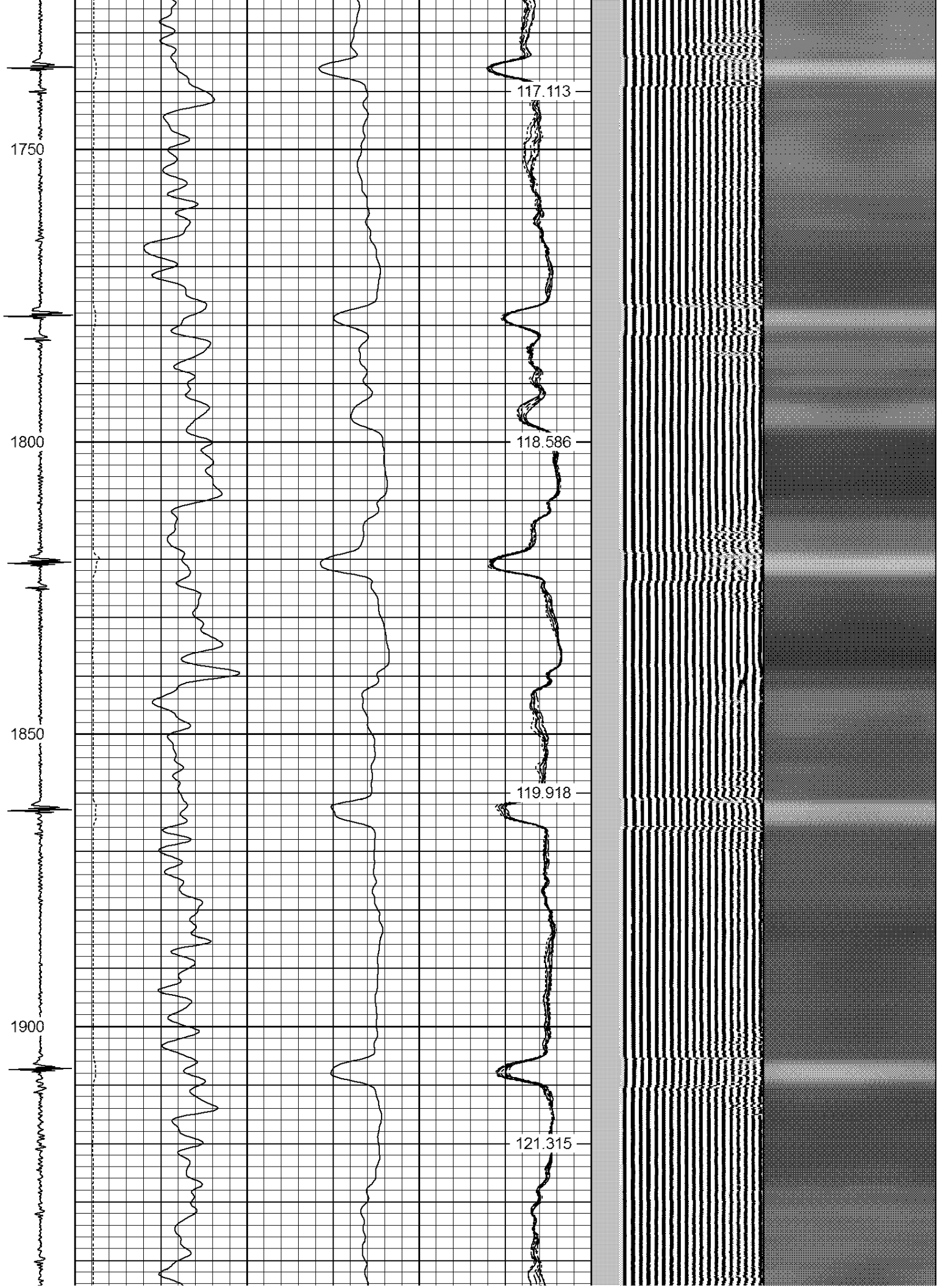
1900

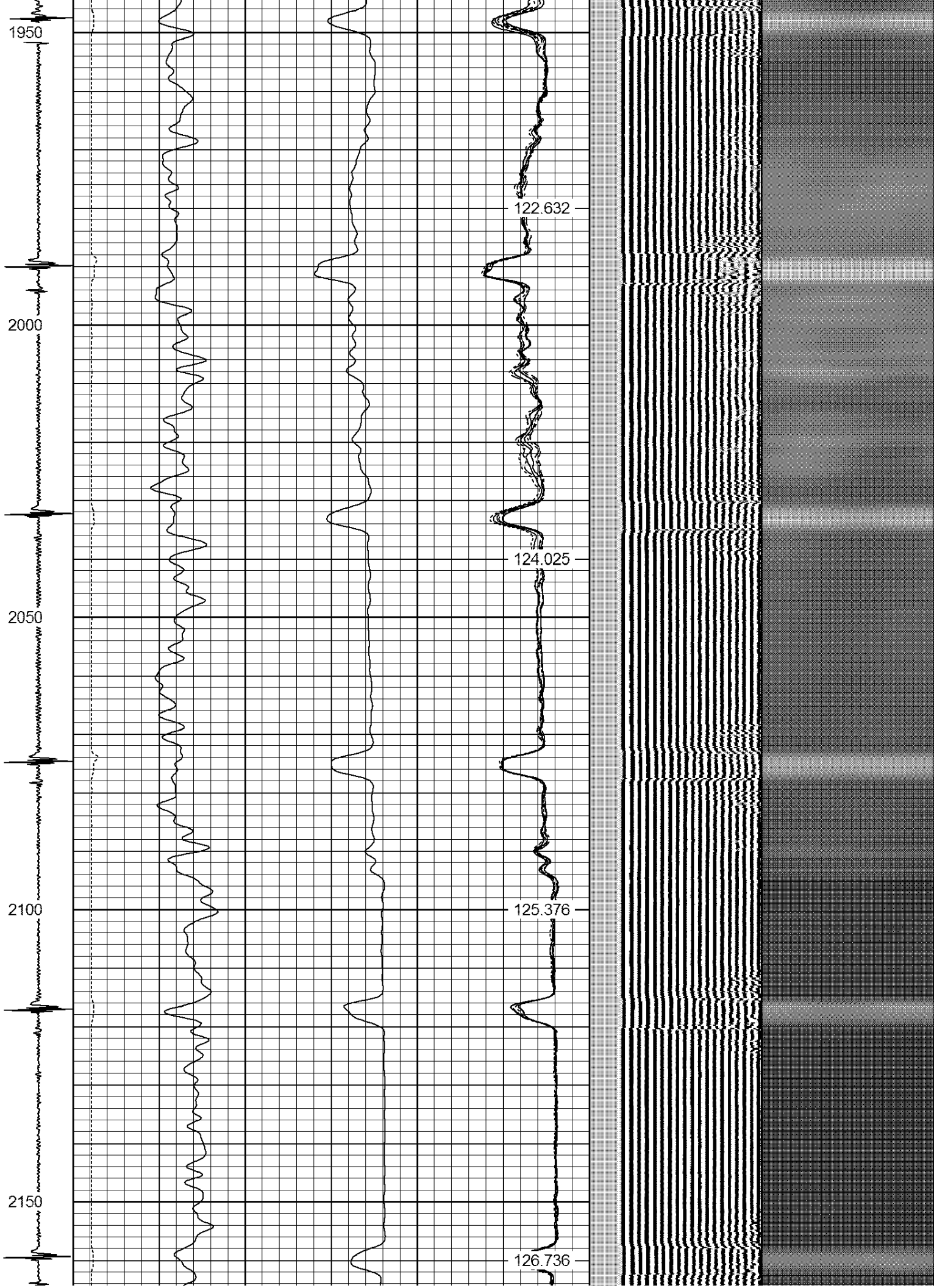
117.113

118.586

119.918

121.315





2200

2250

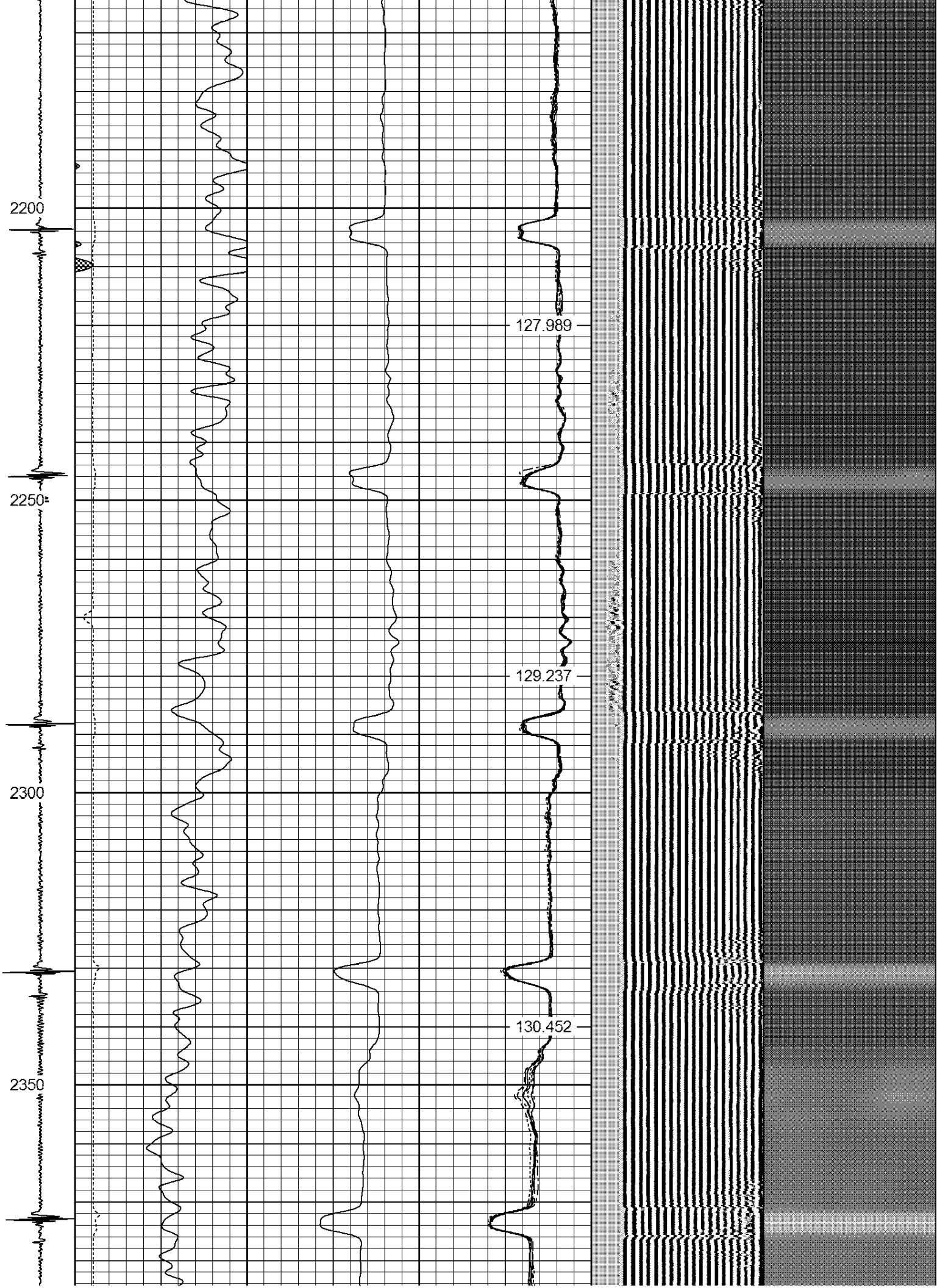
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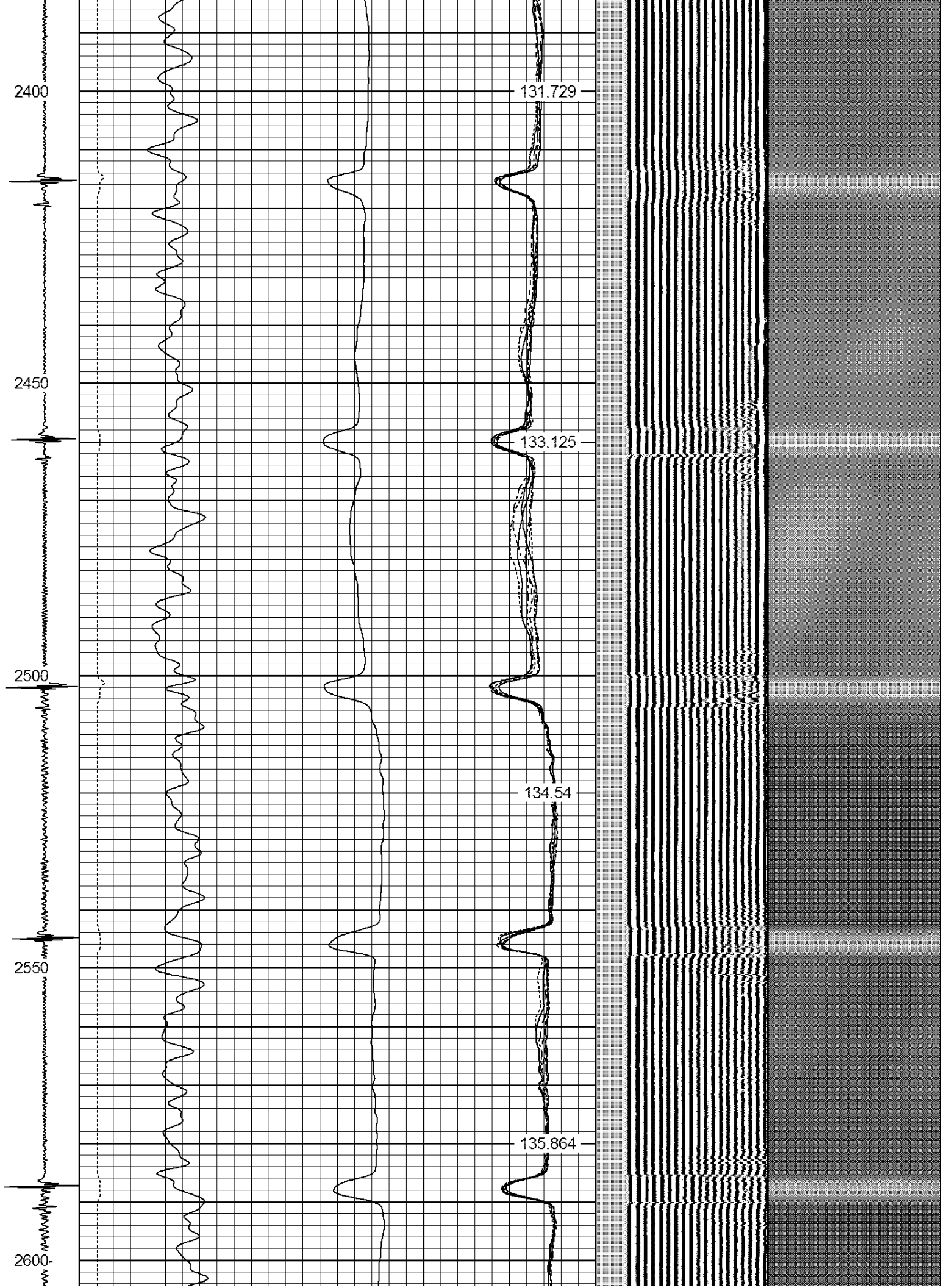
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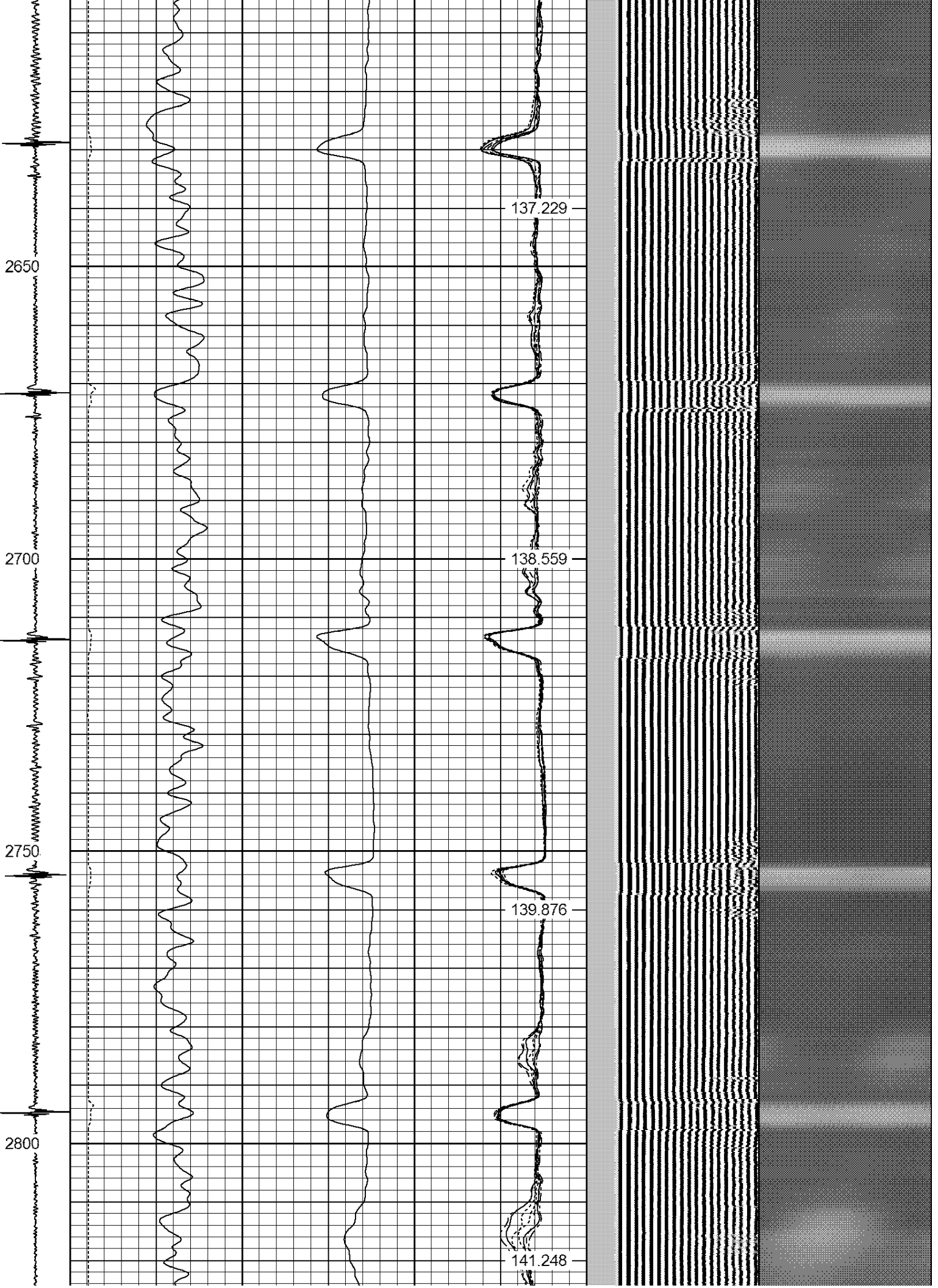
127.989

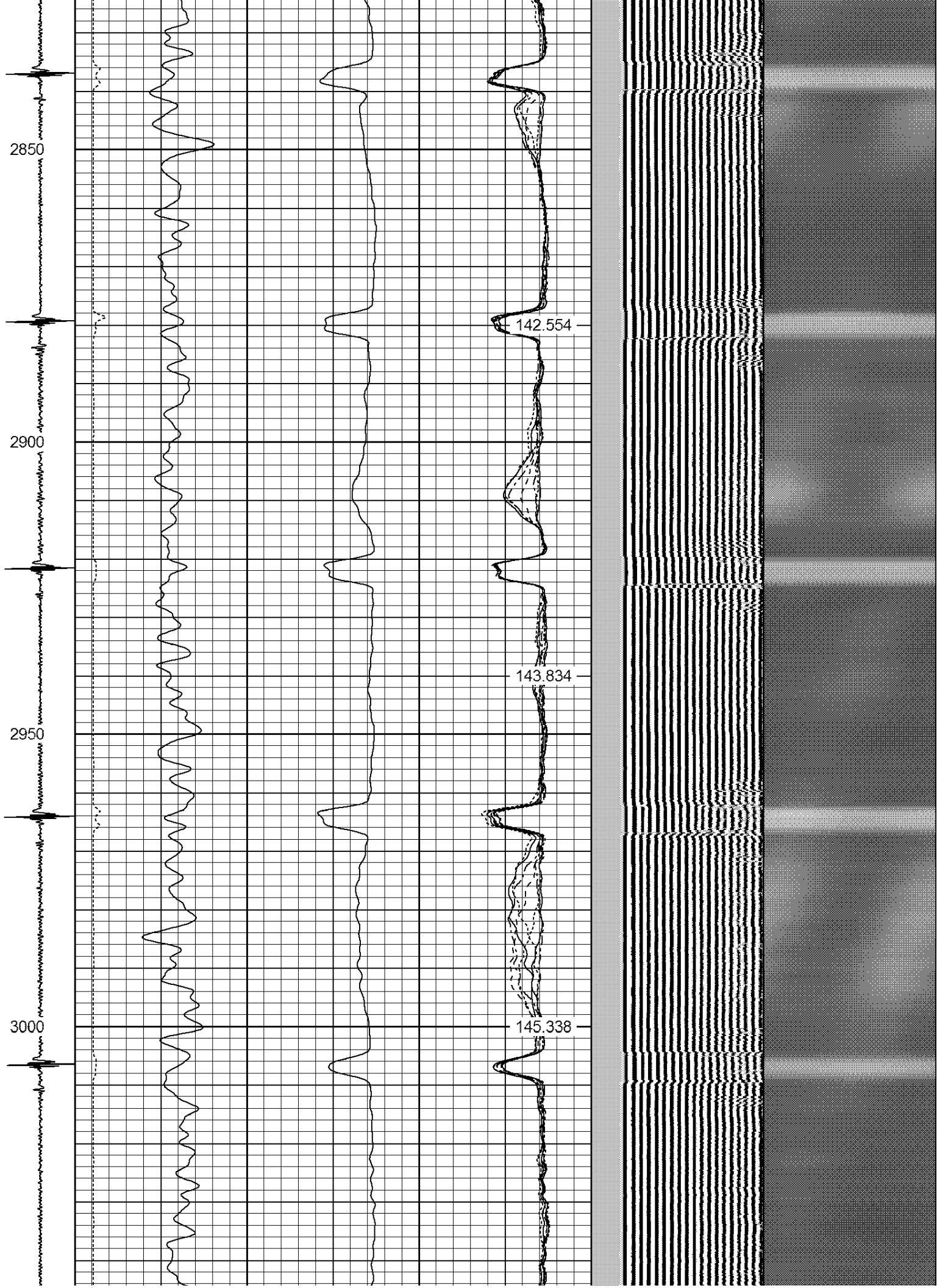
129.237

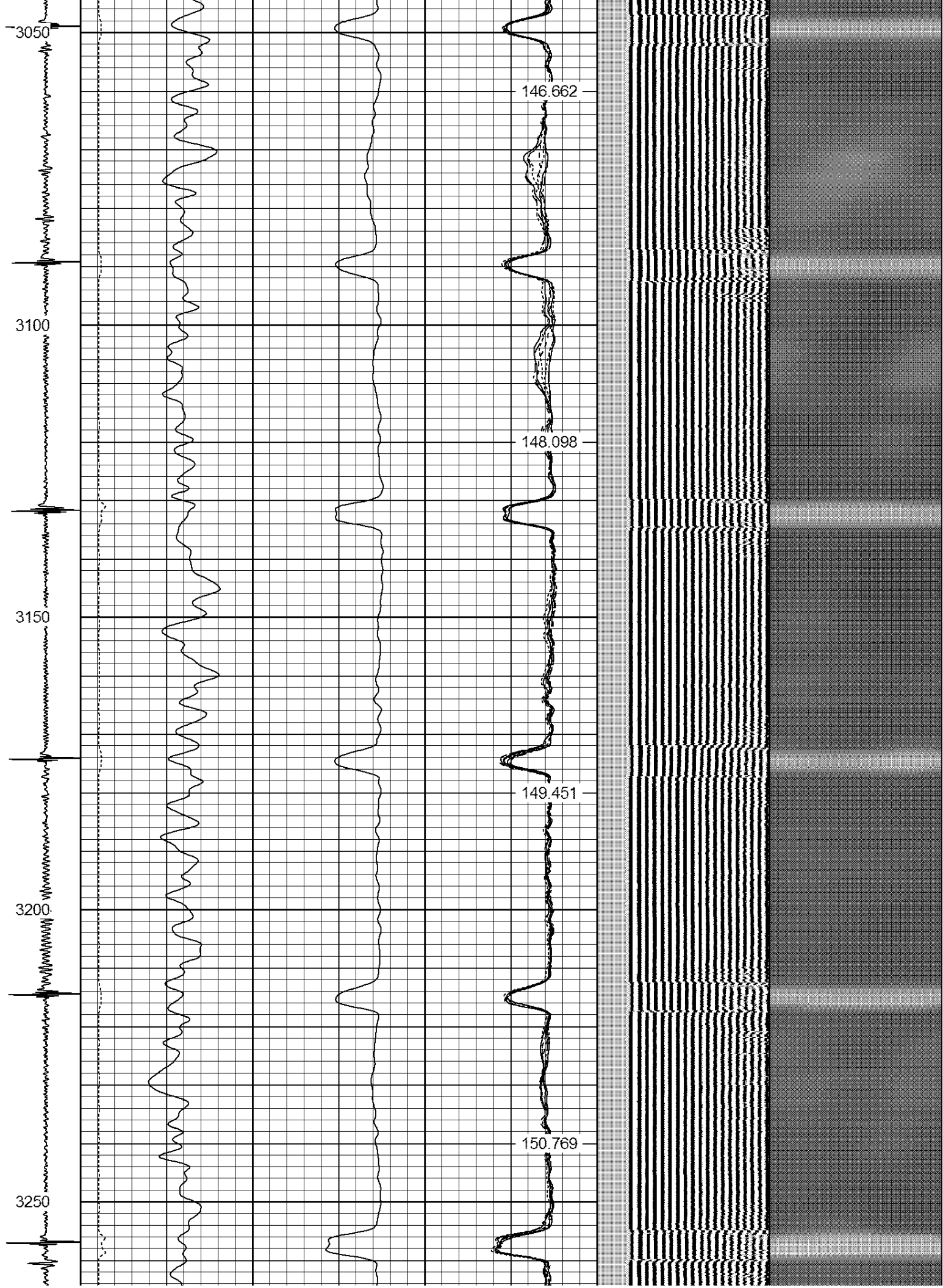
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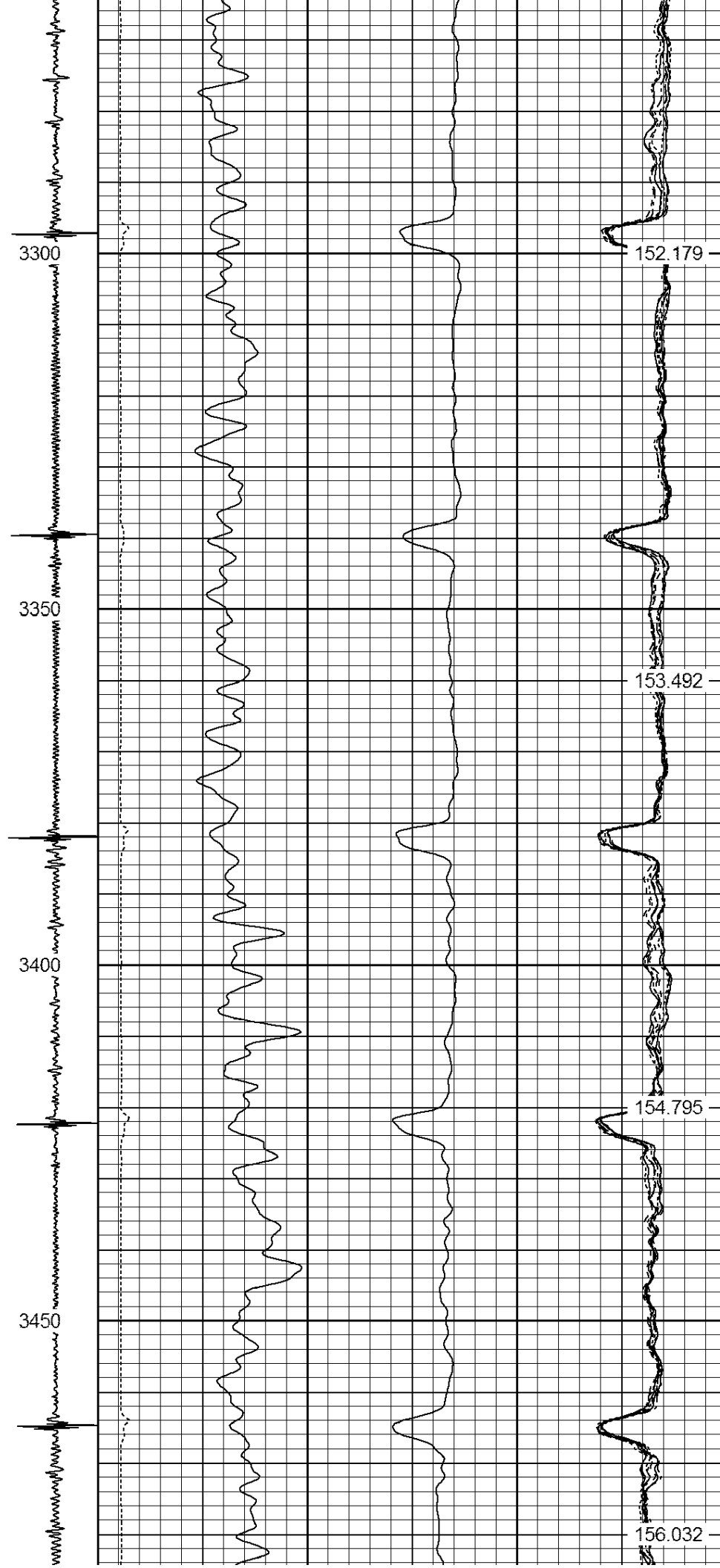


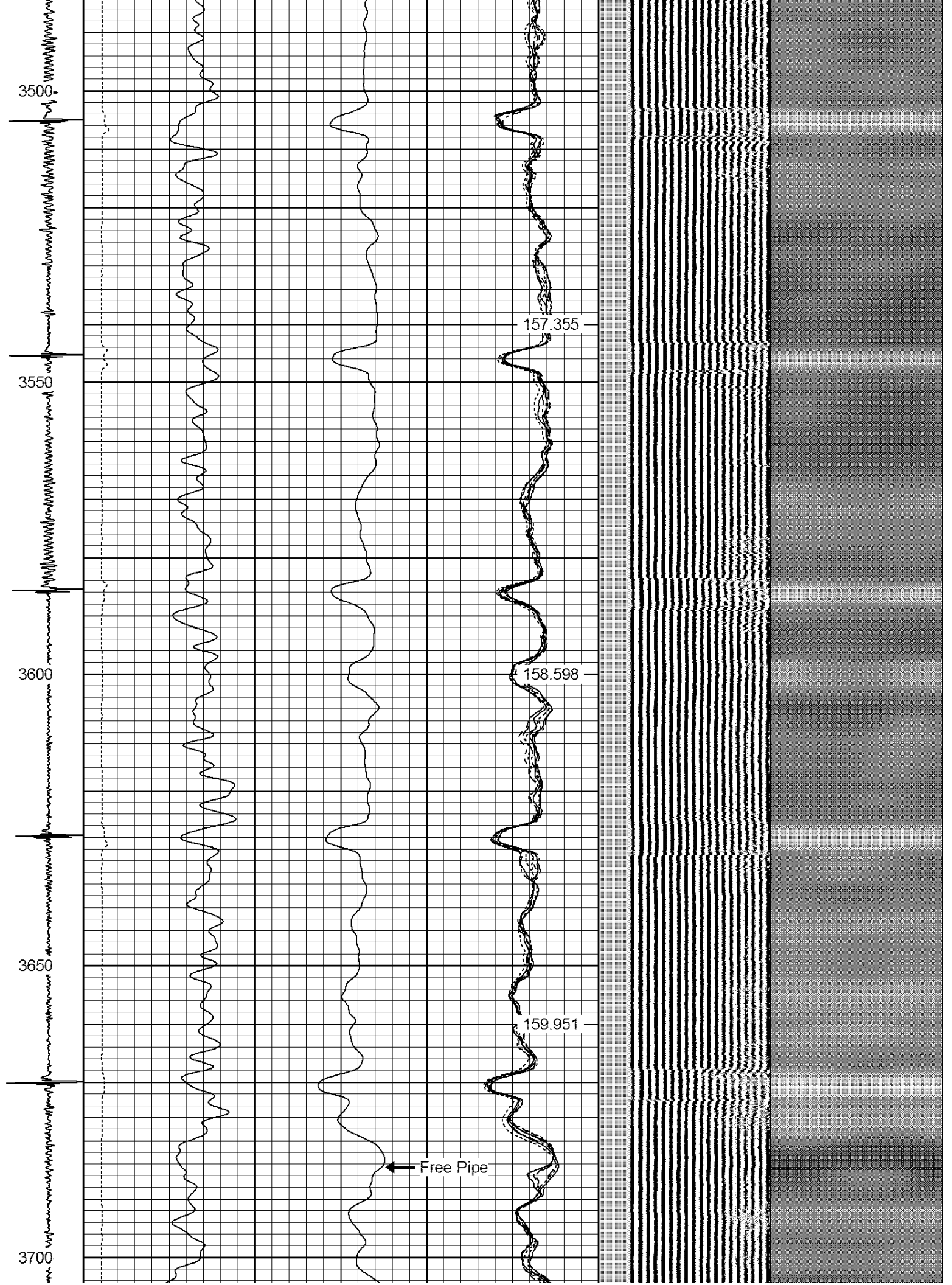


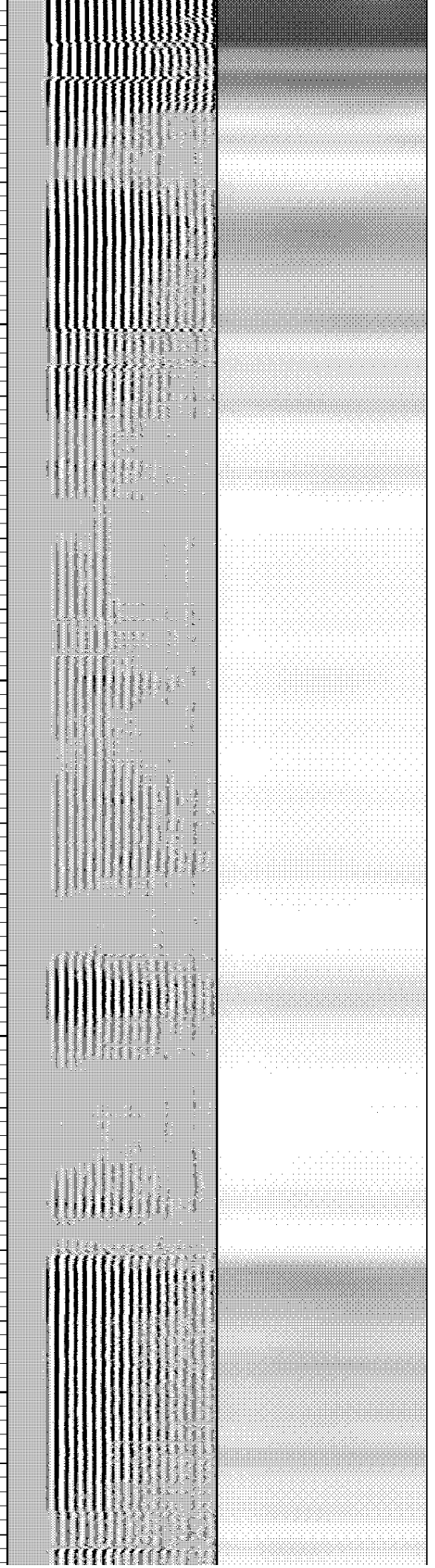
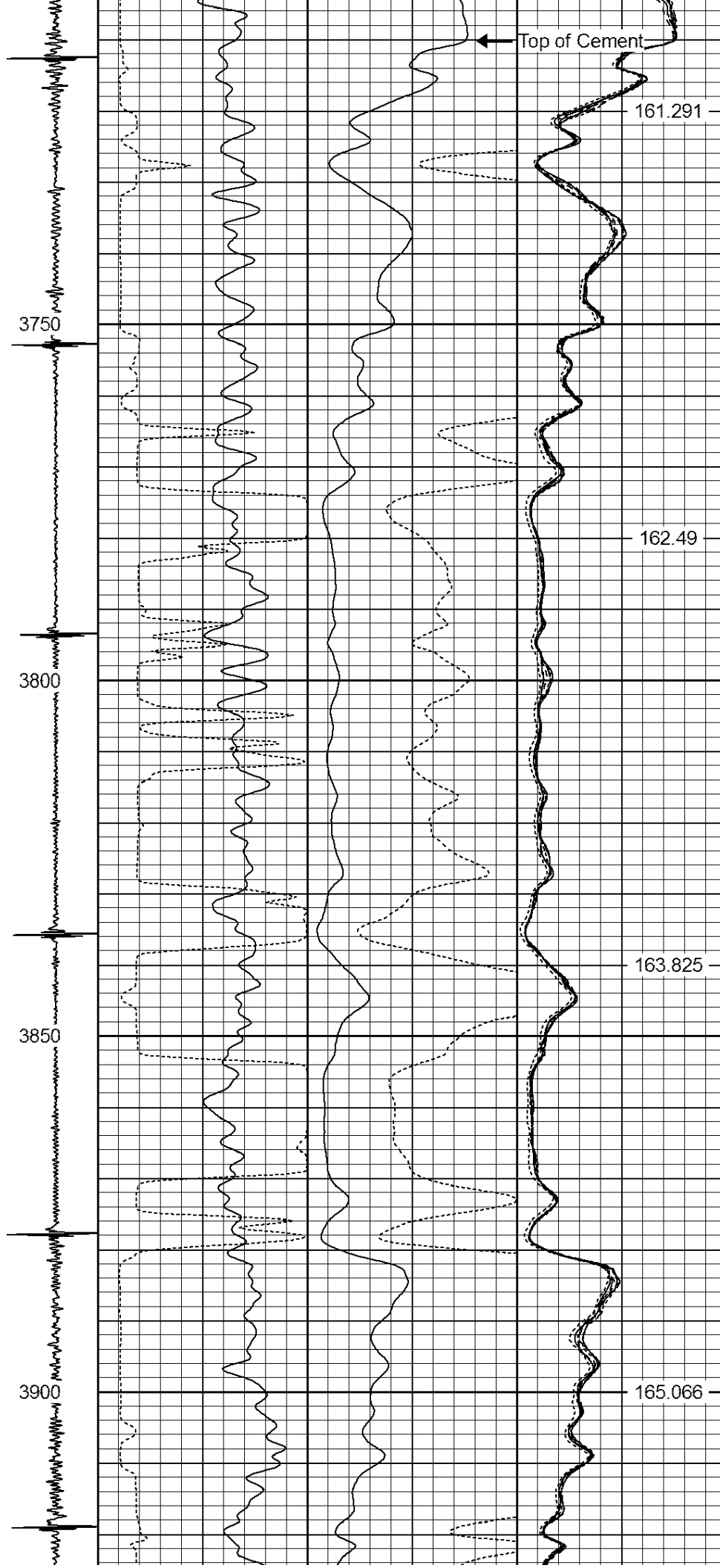


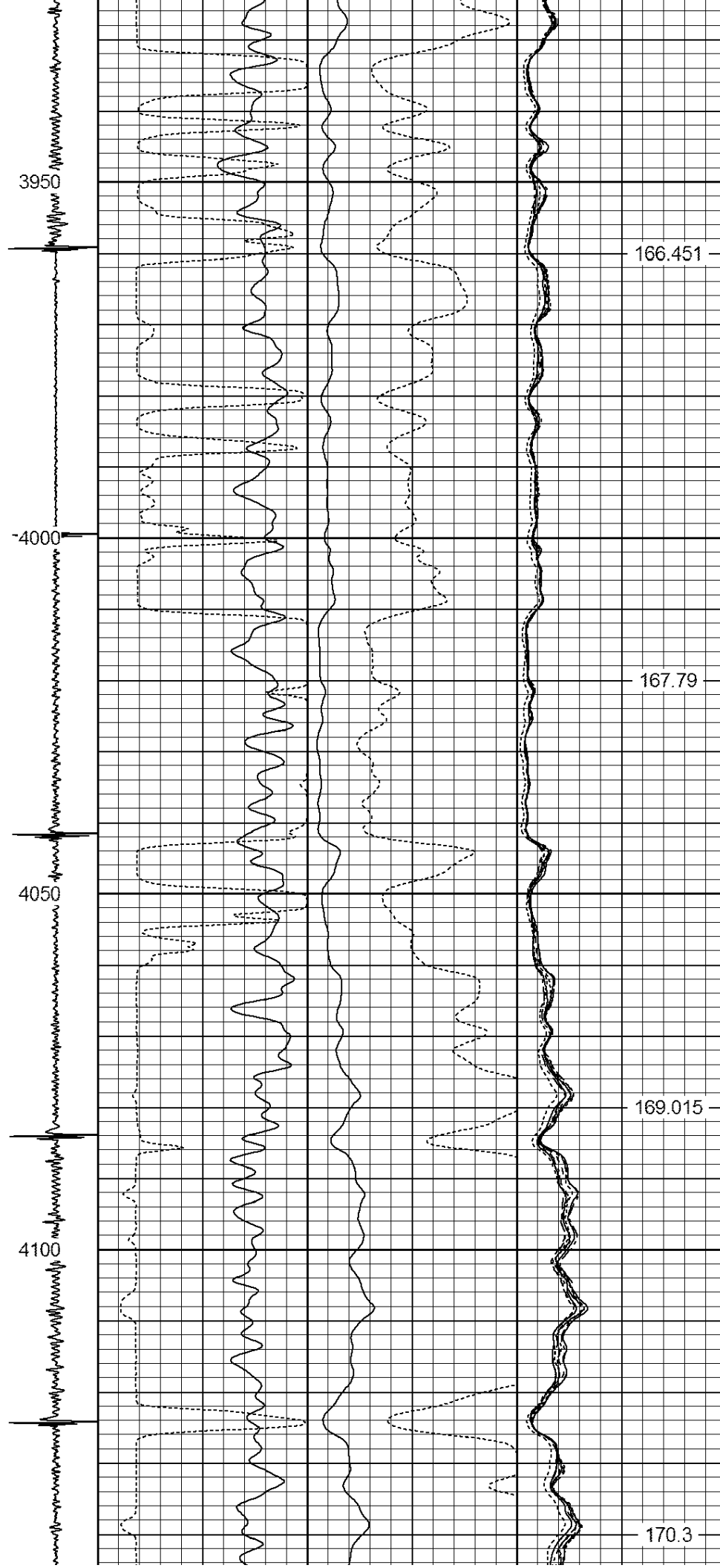


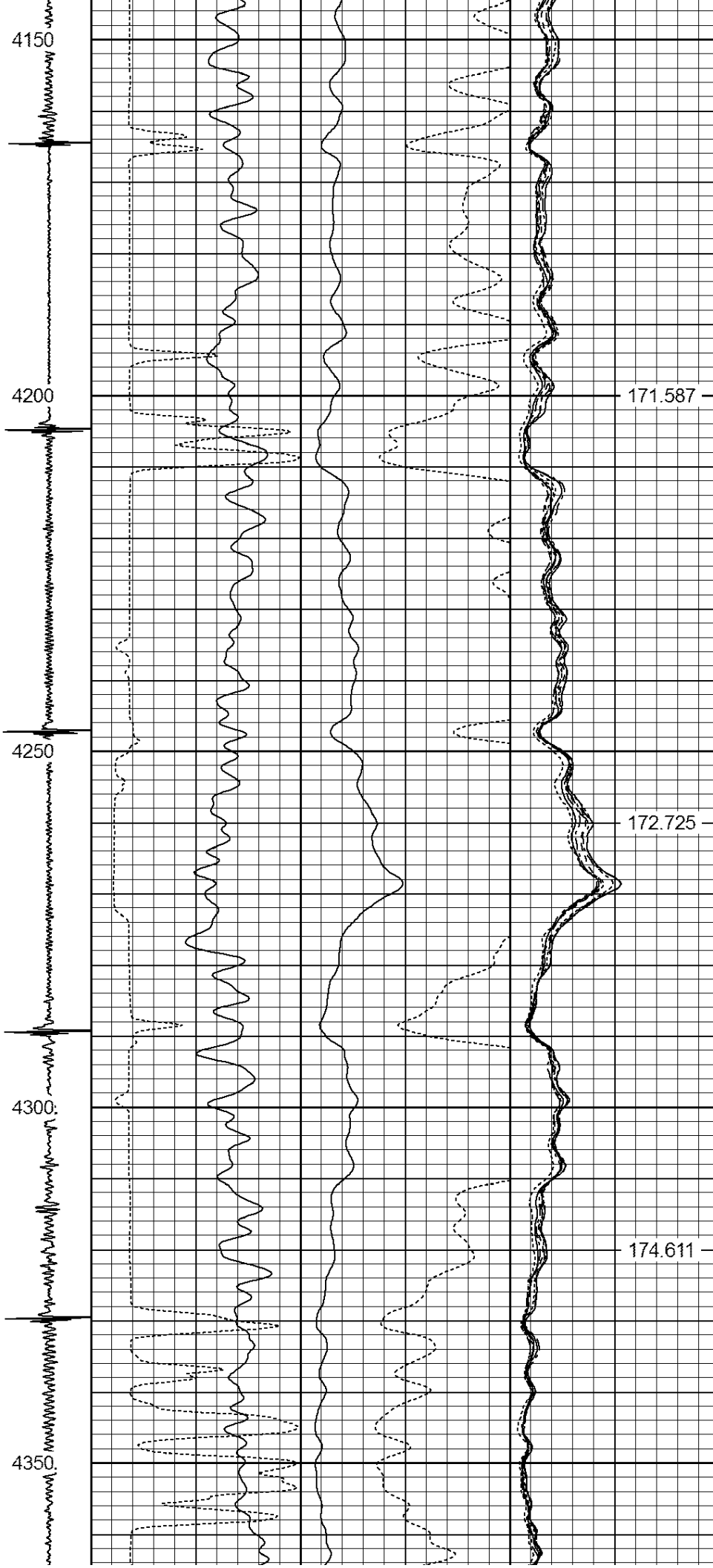


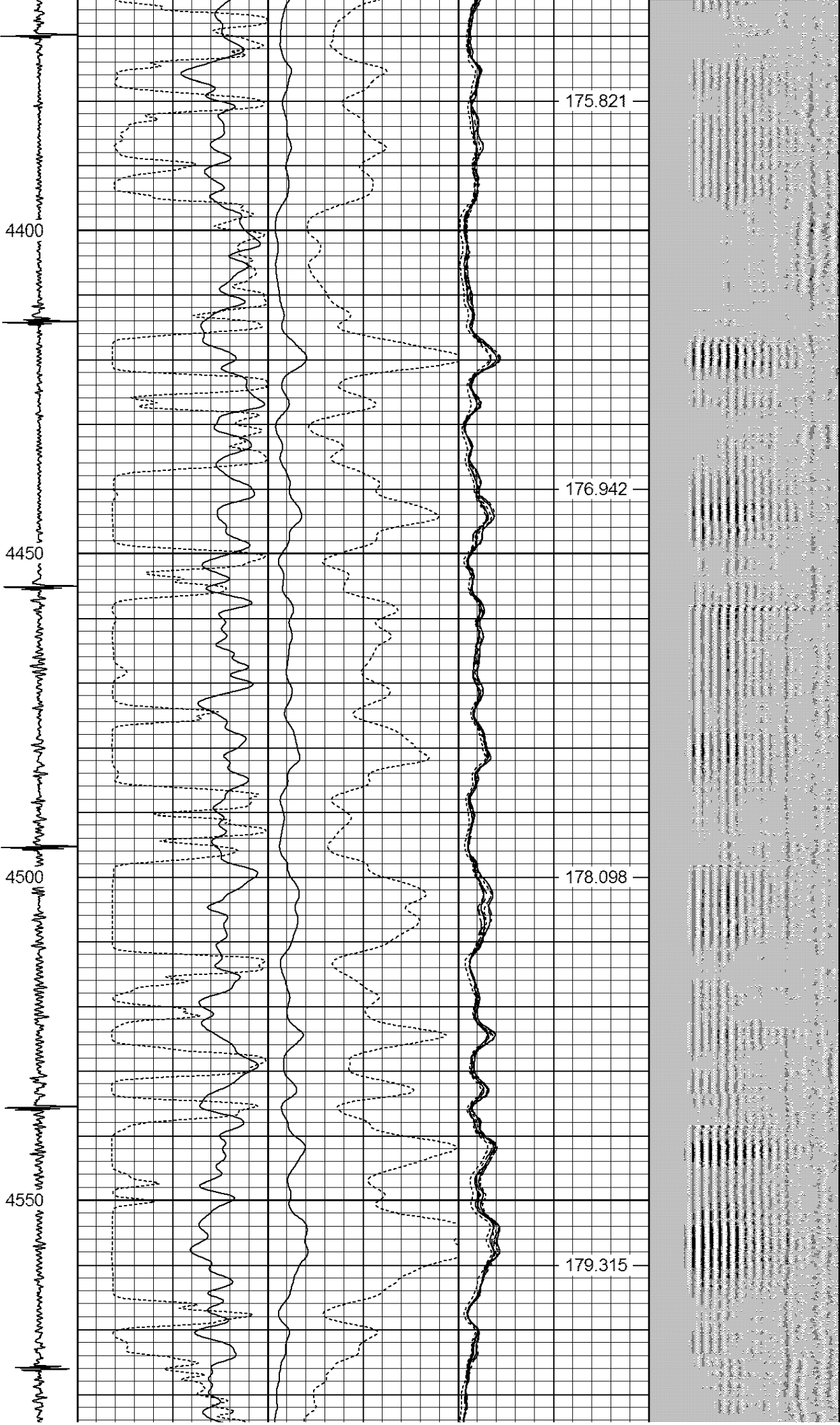


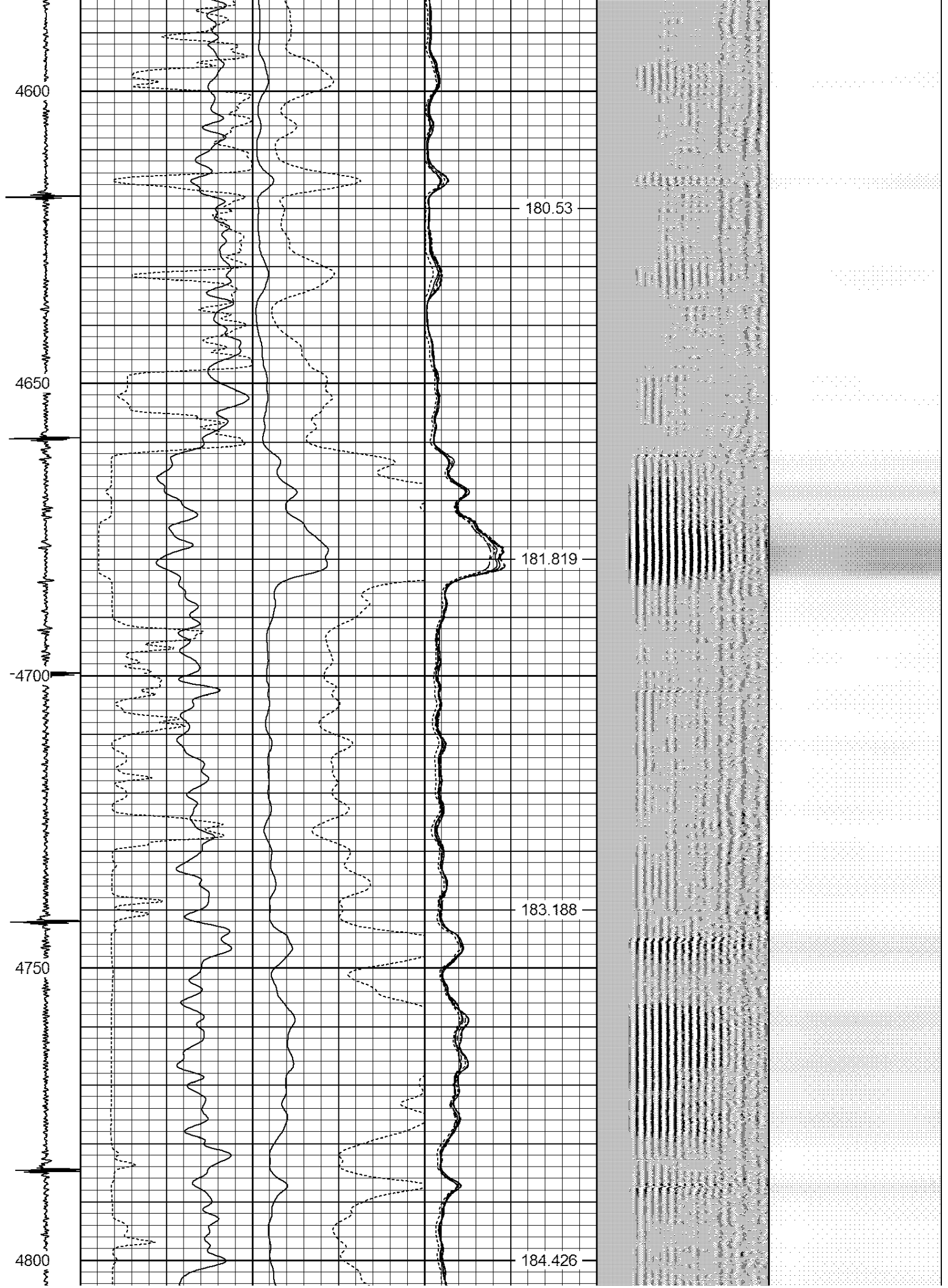


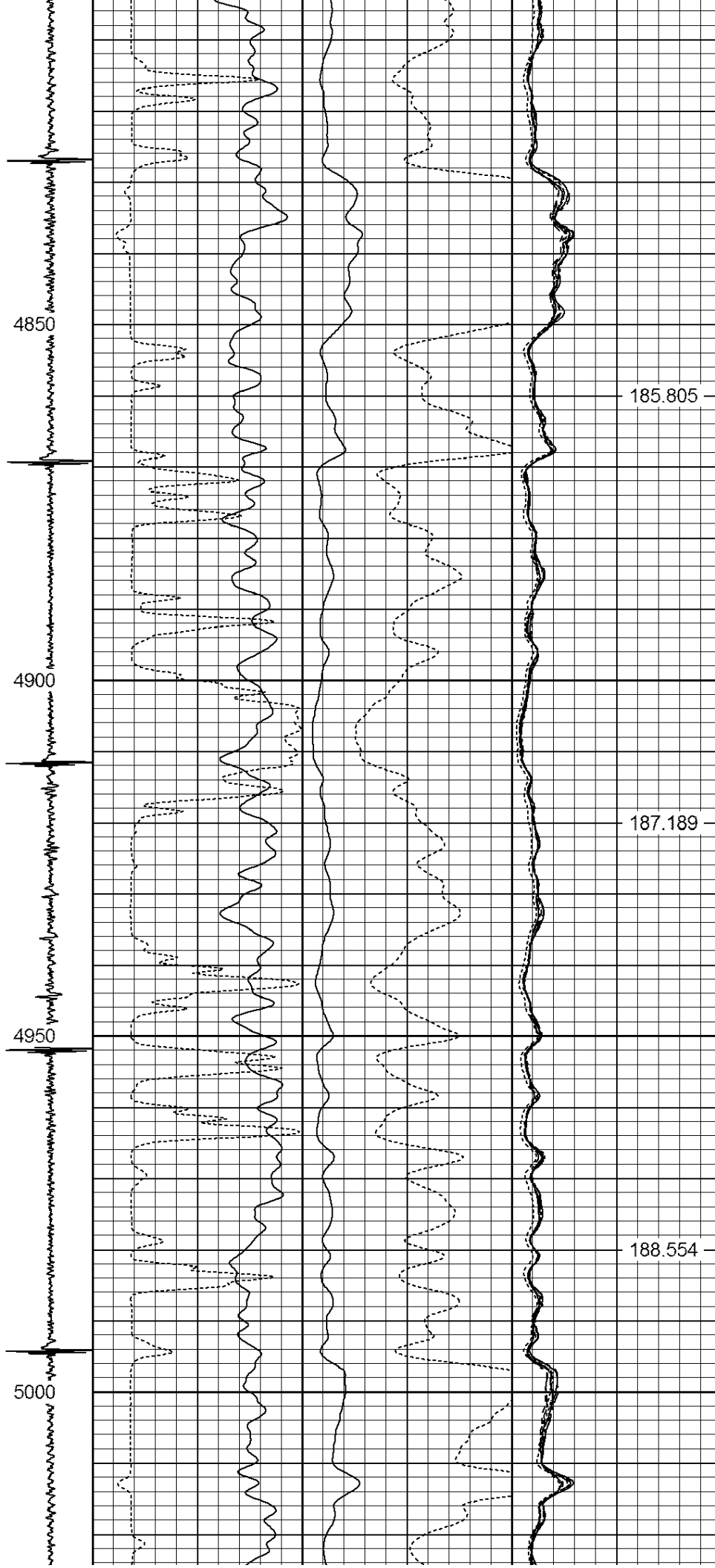


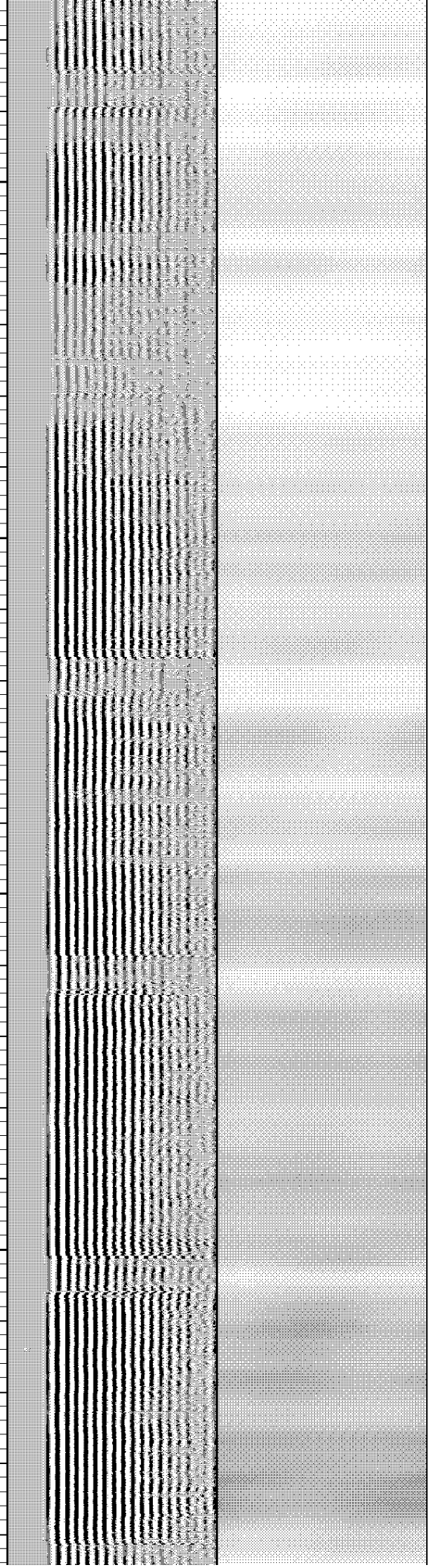
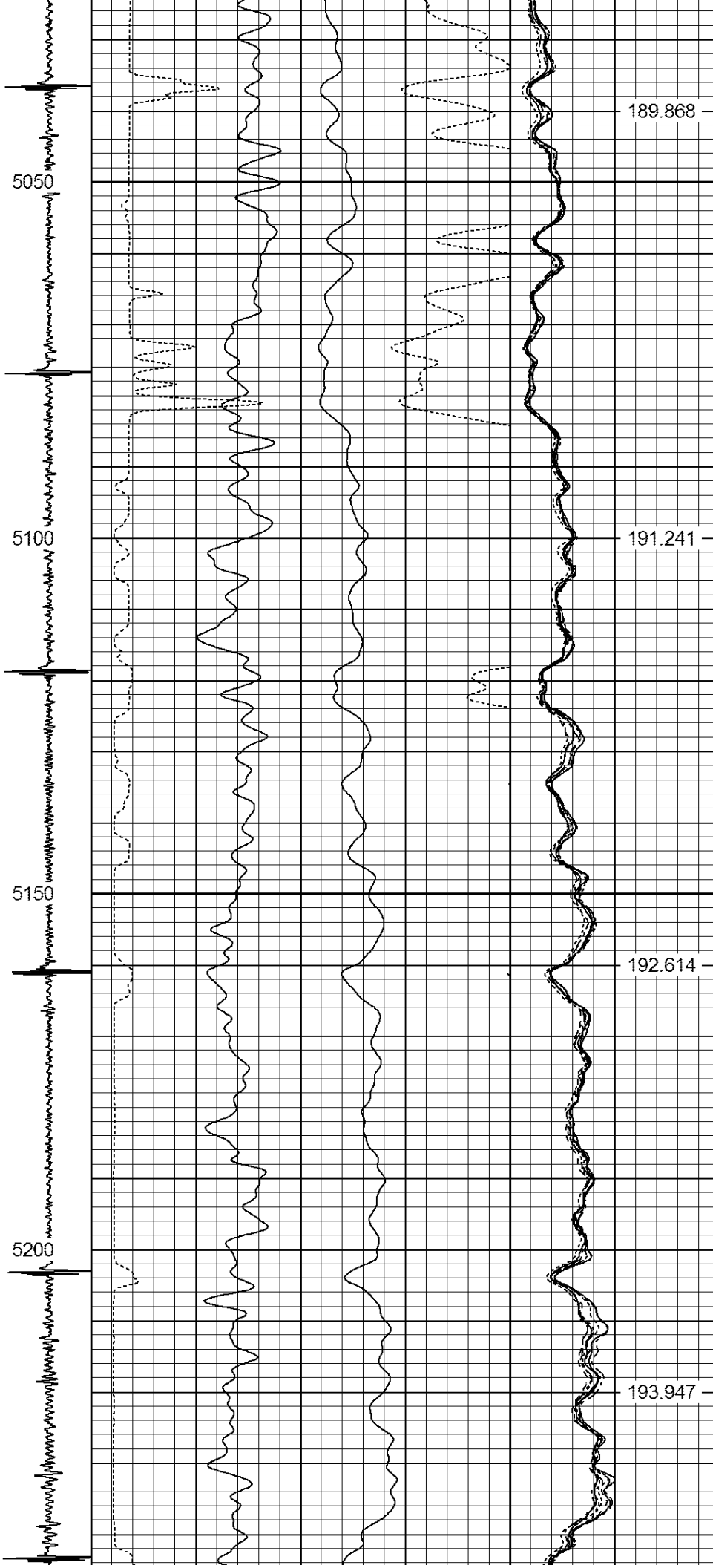


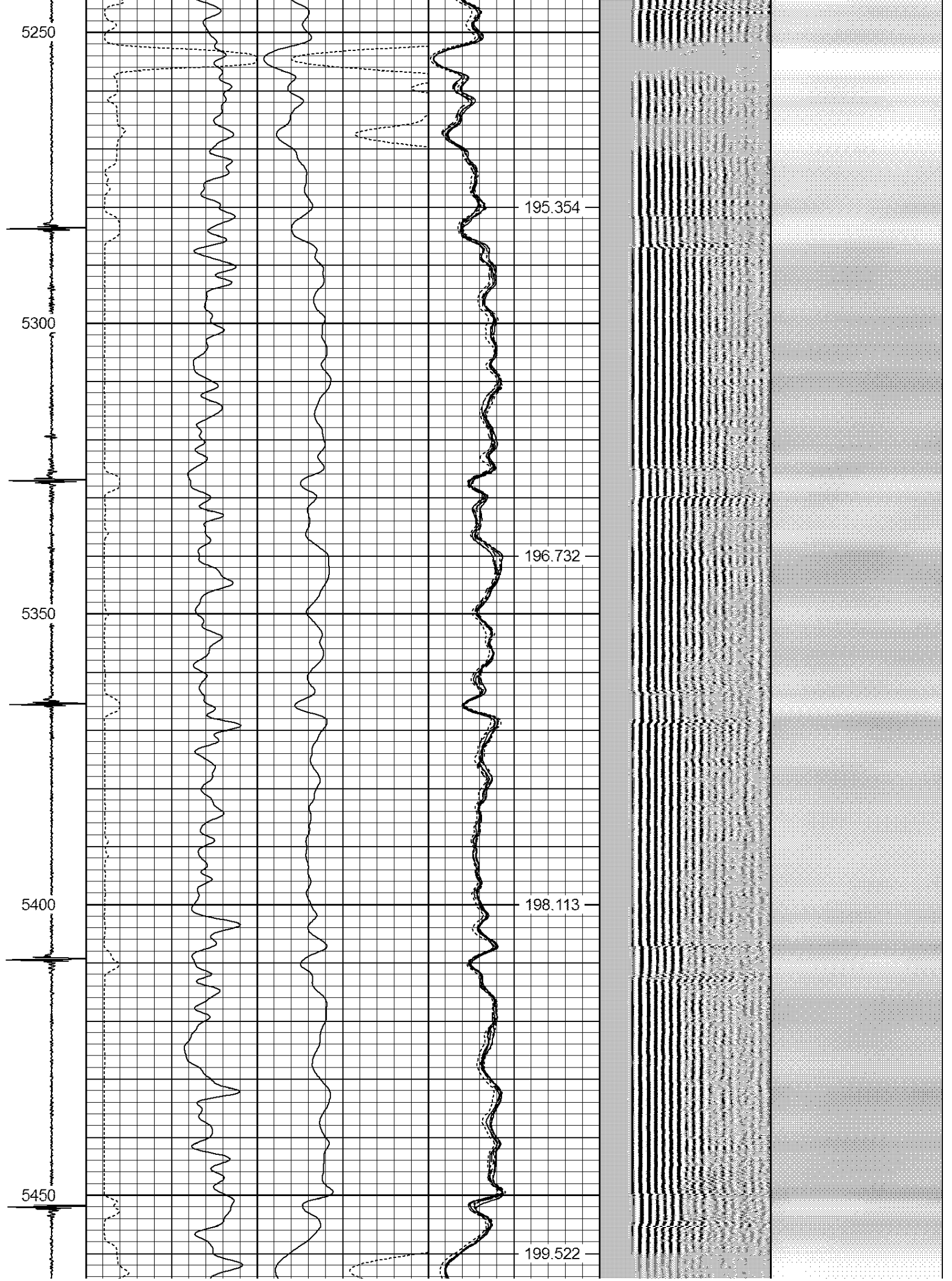


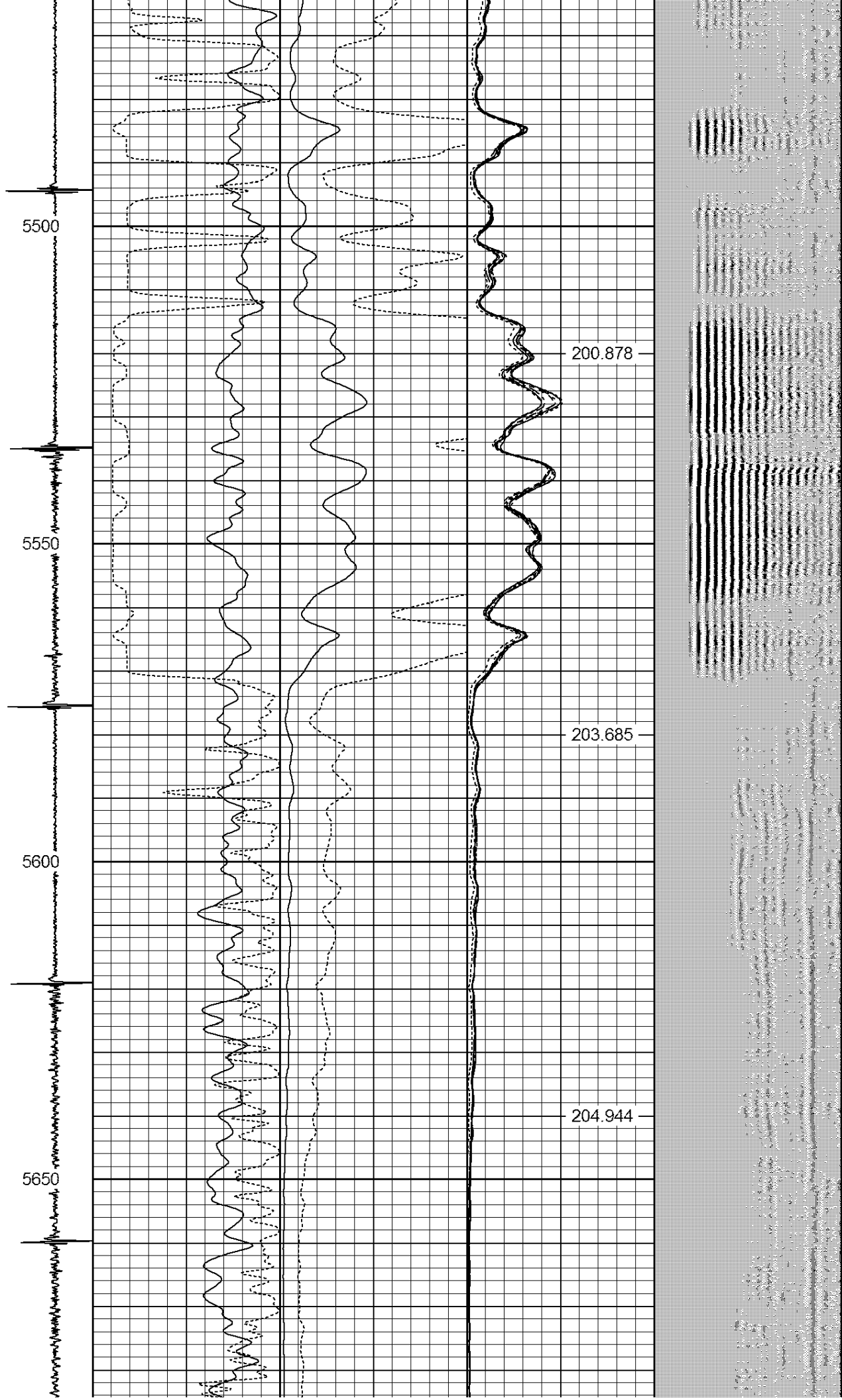


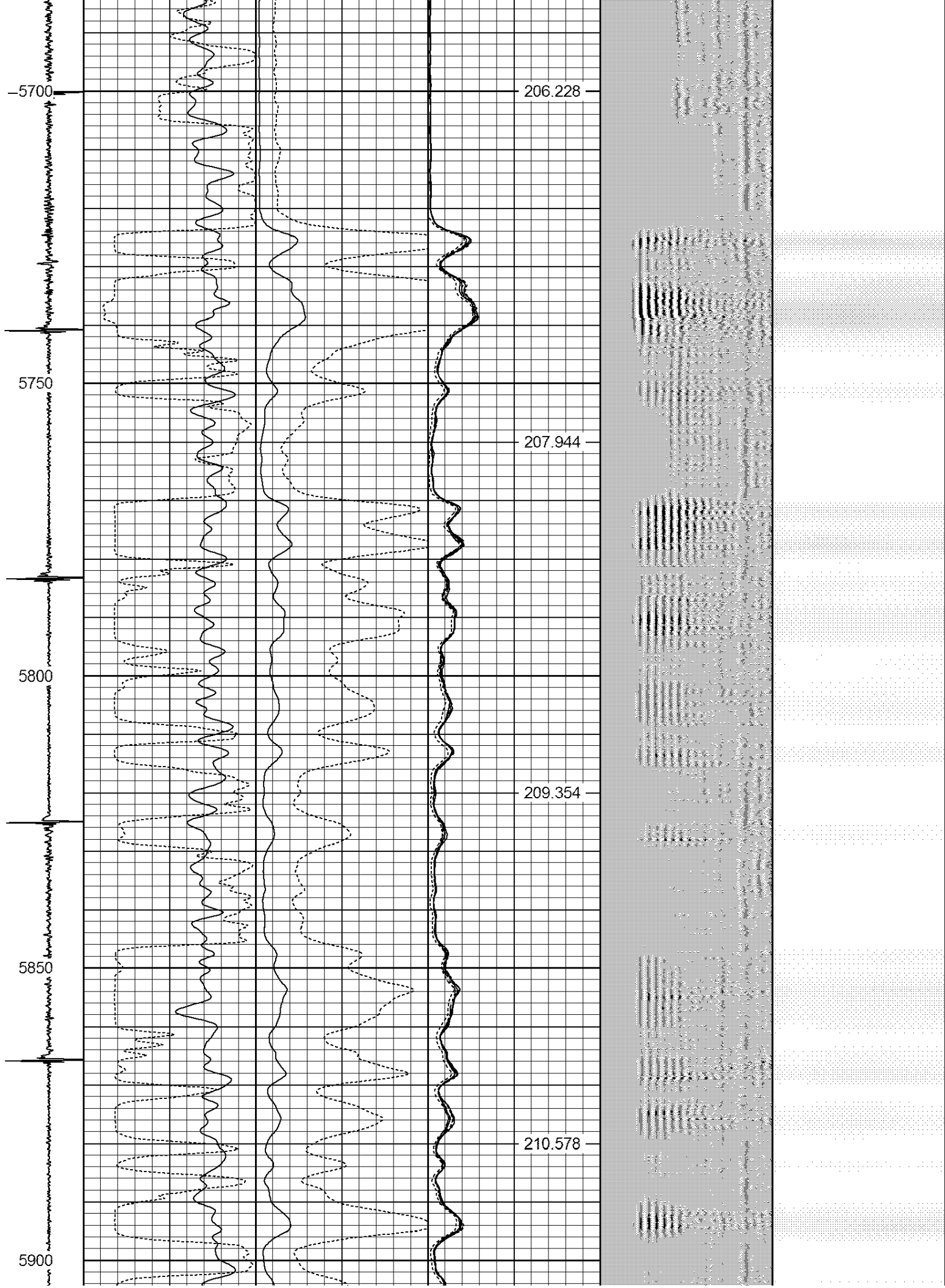


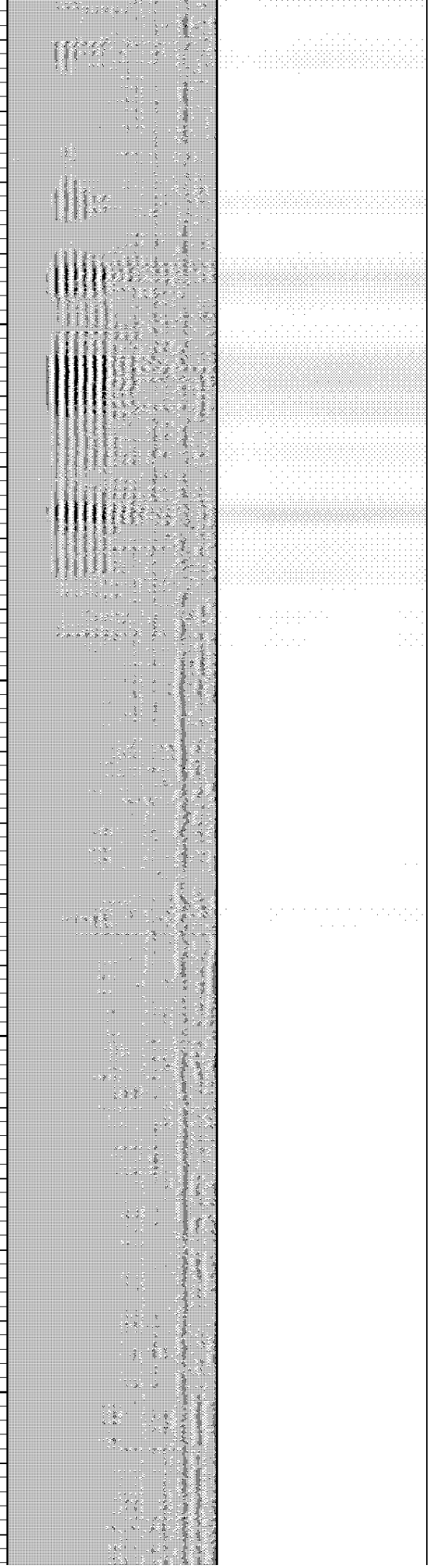
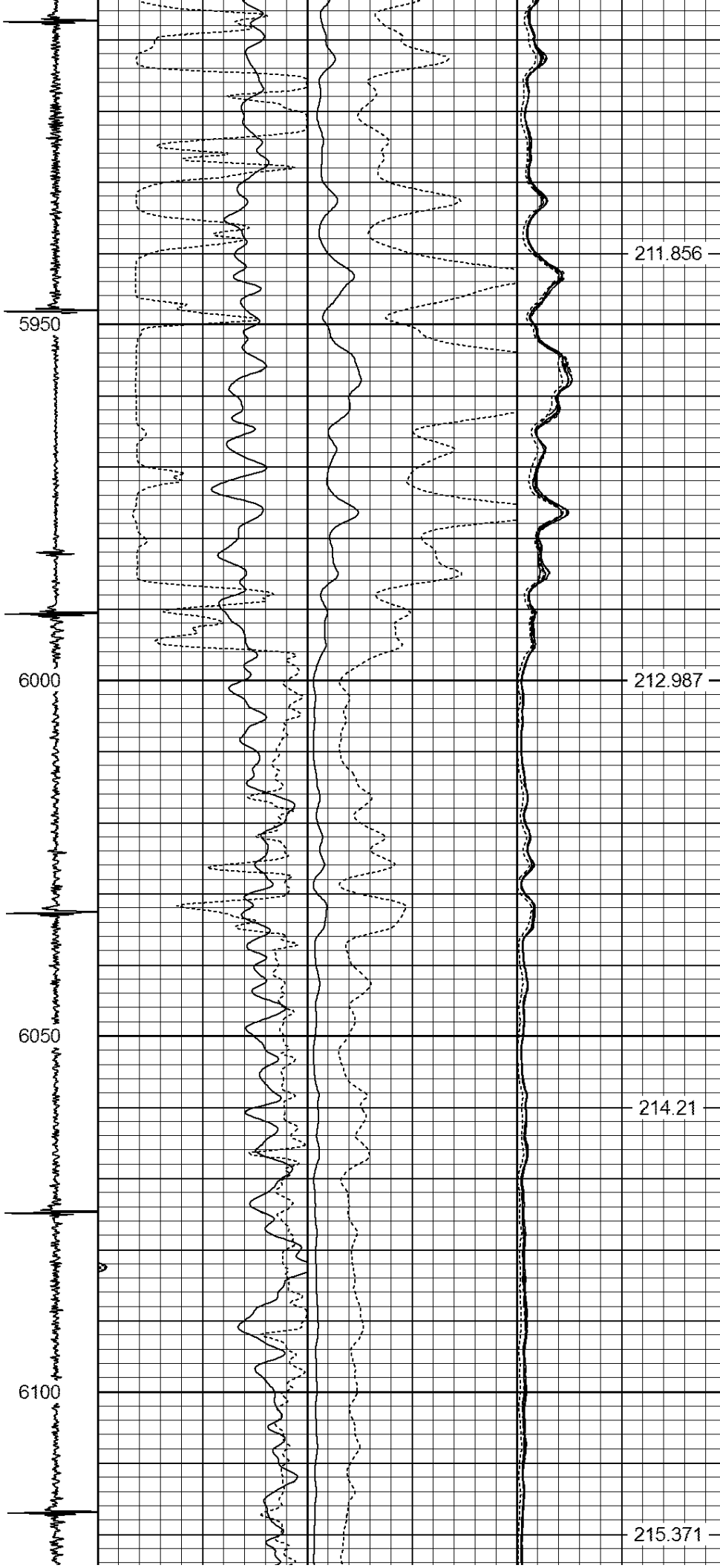


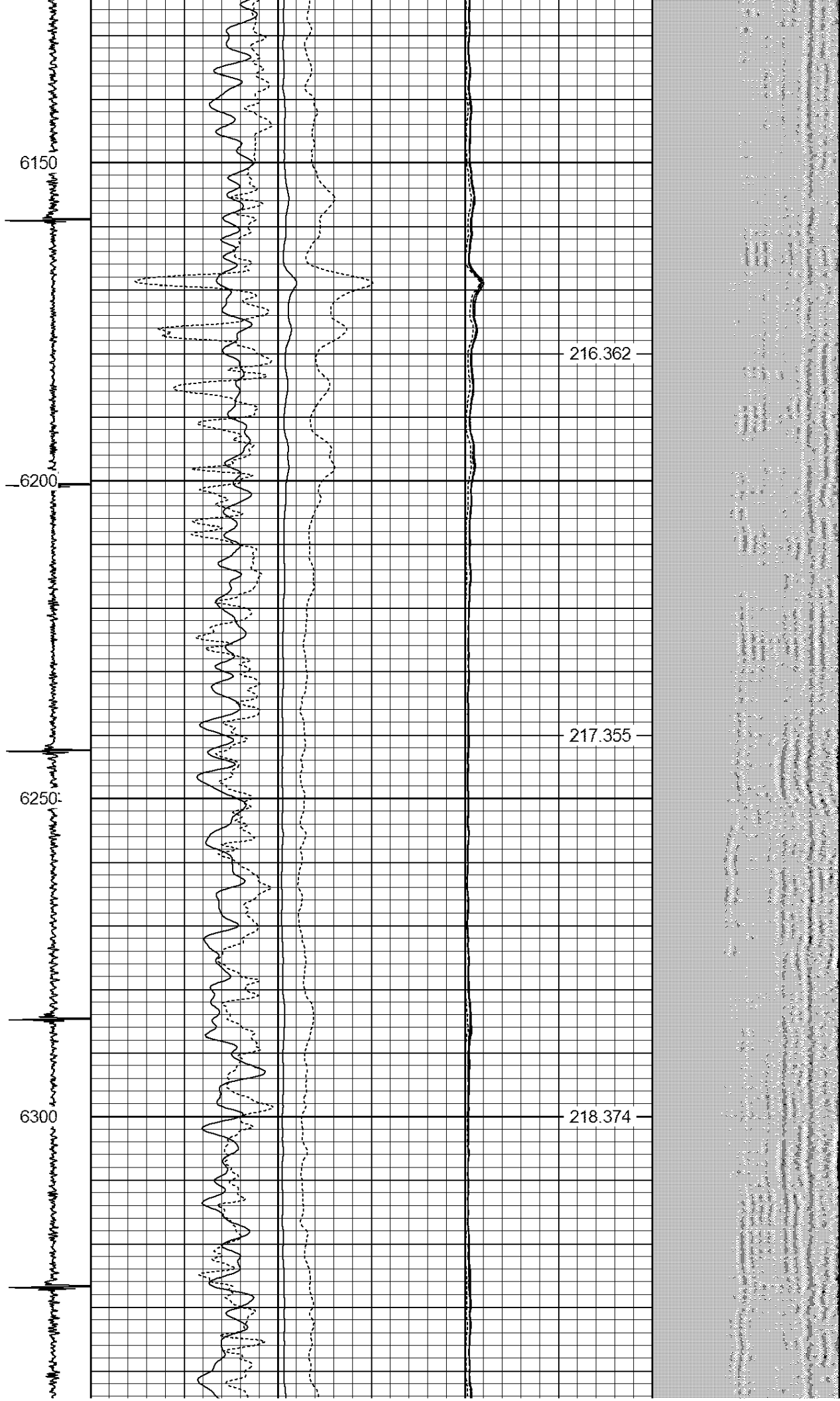


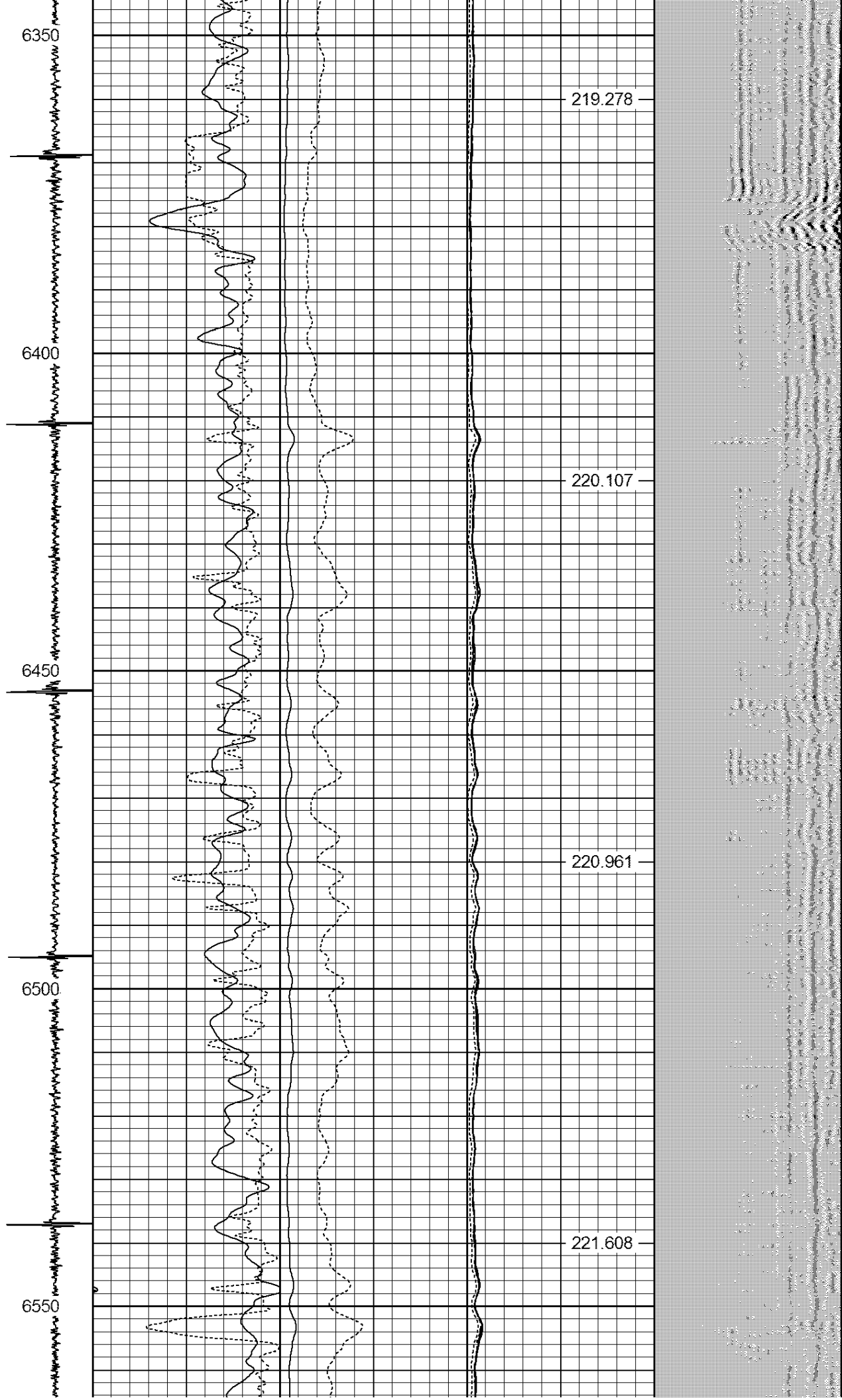


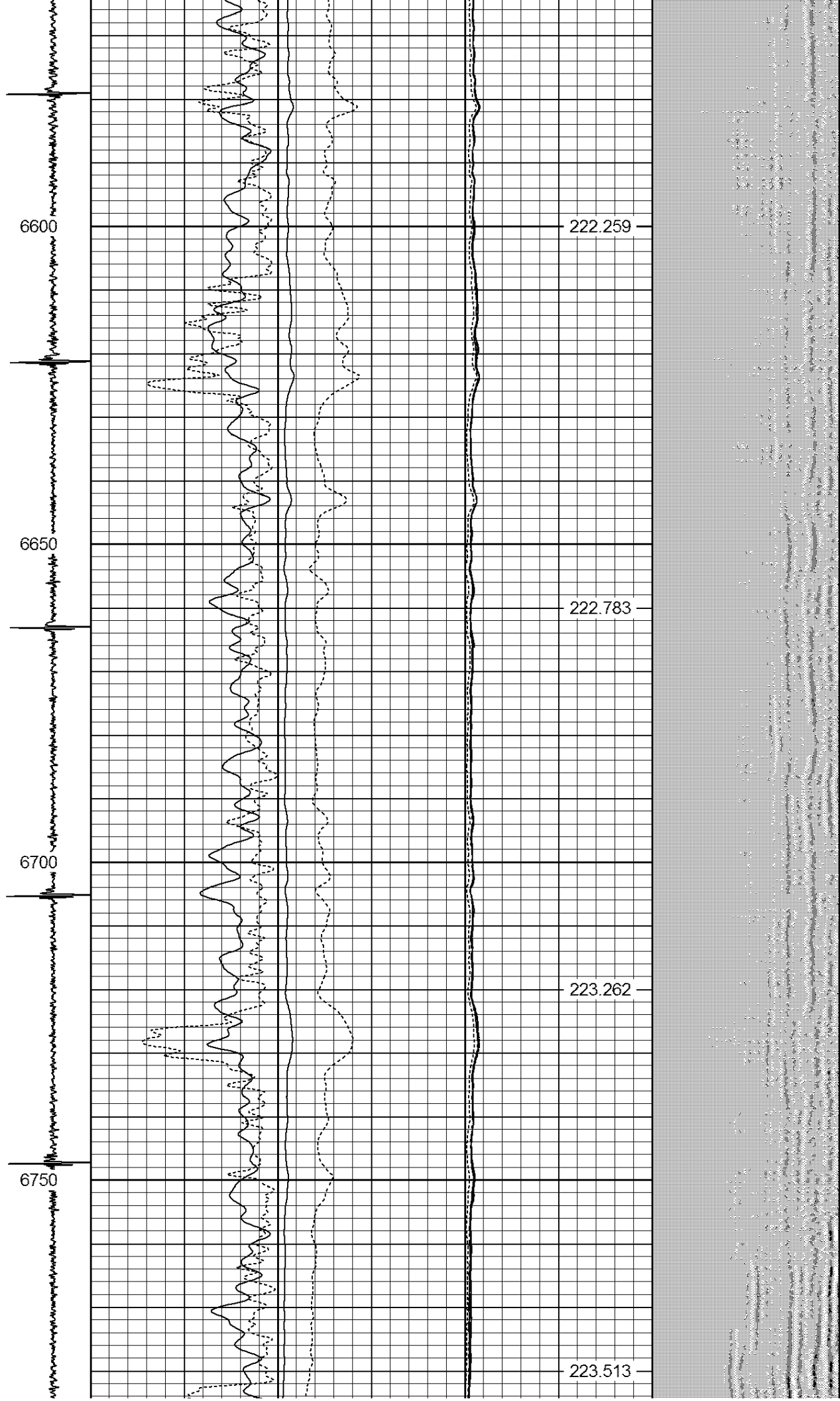


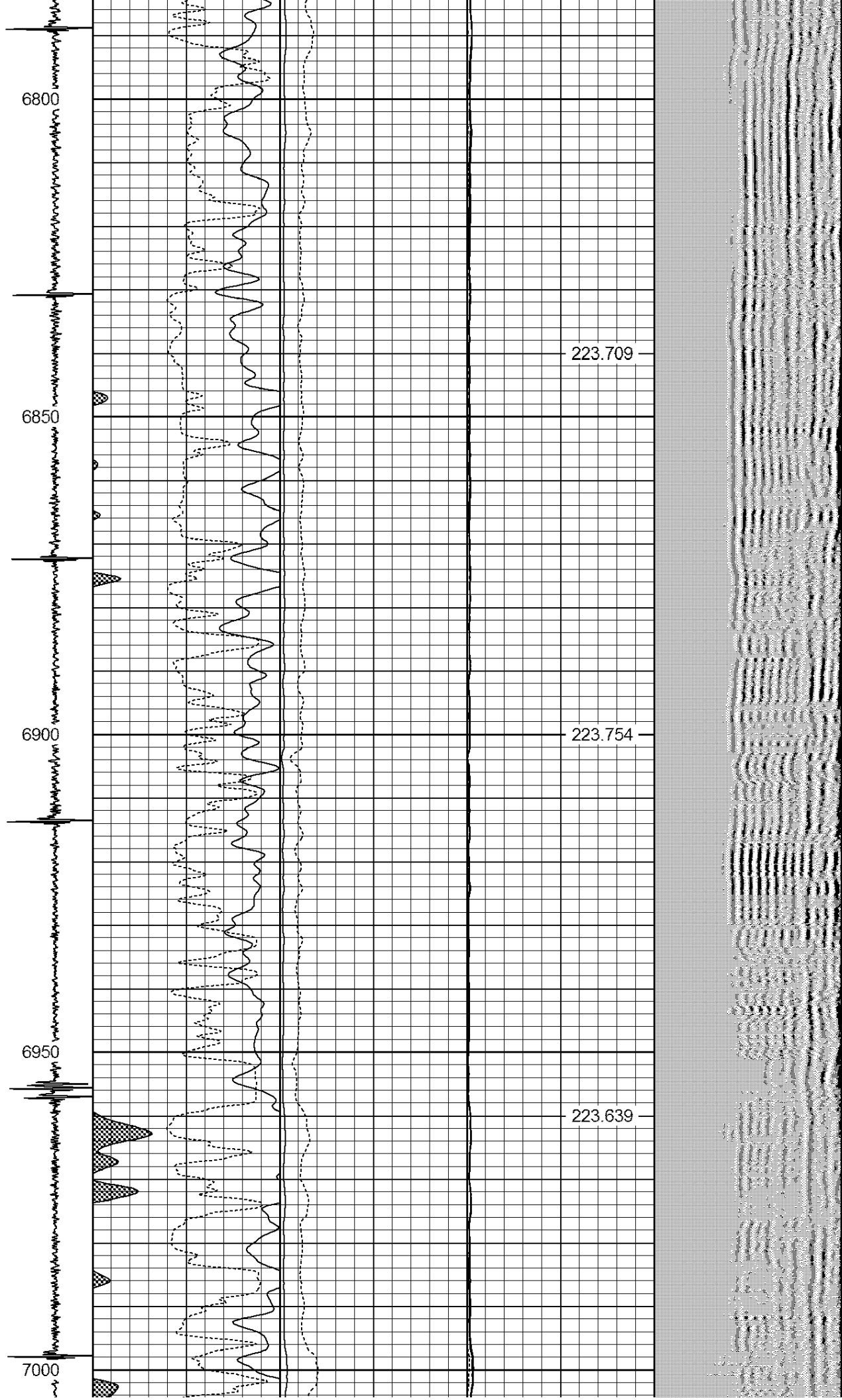


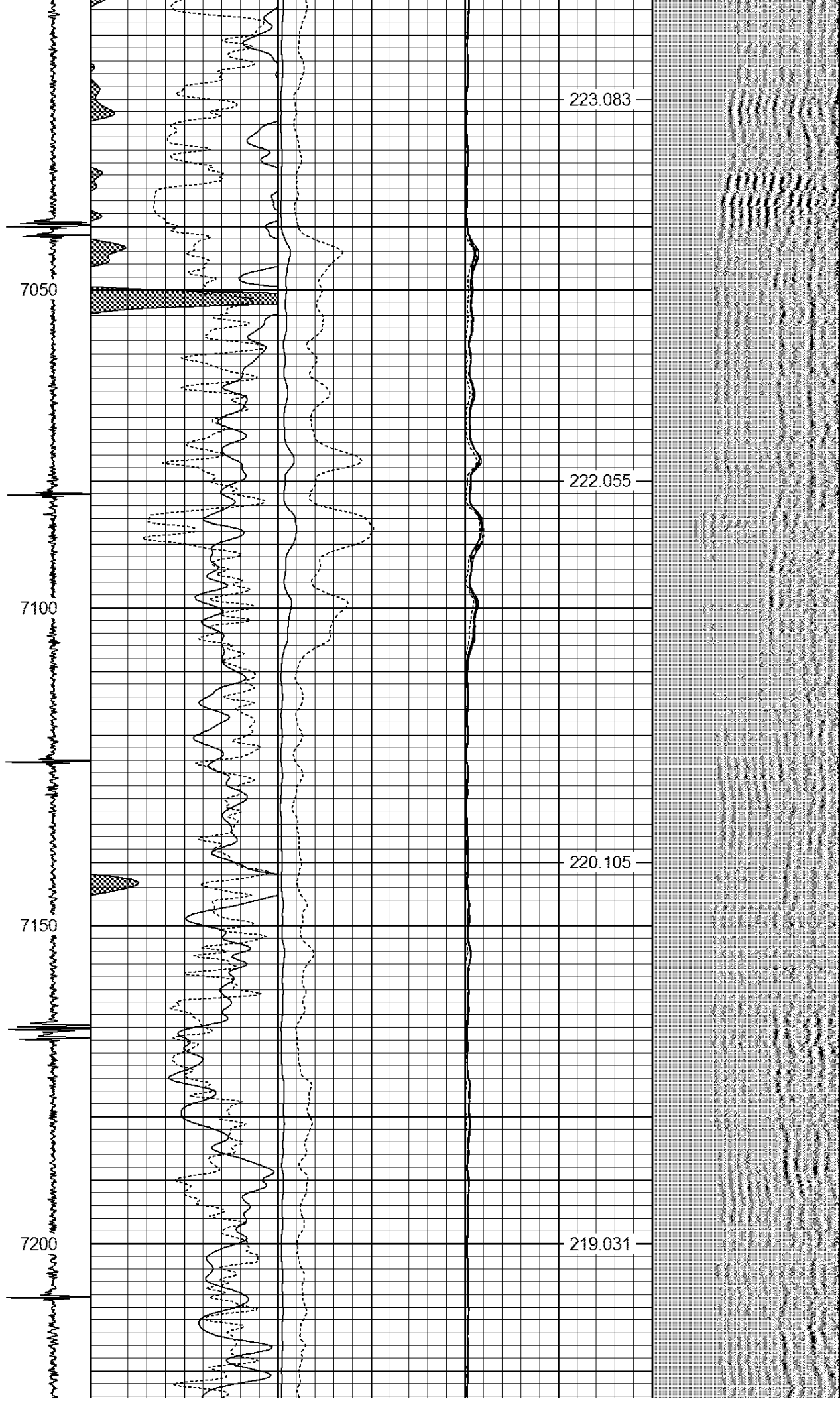


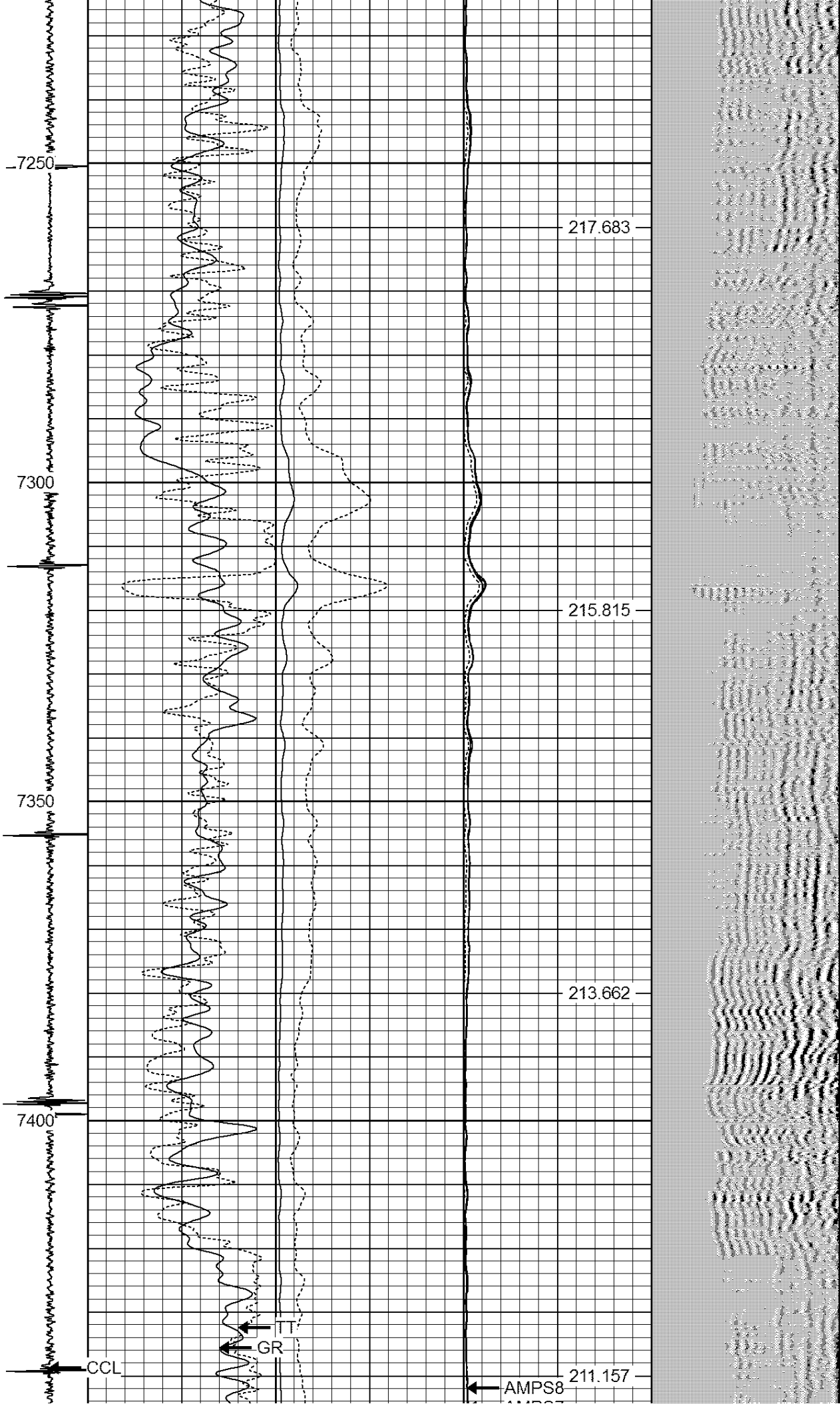


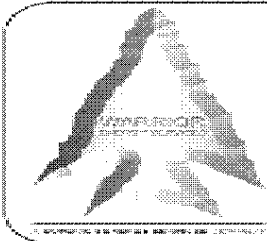
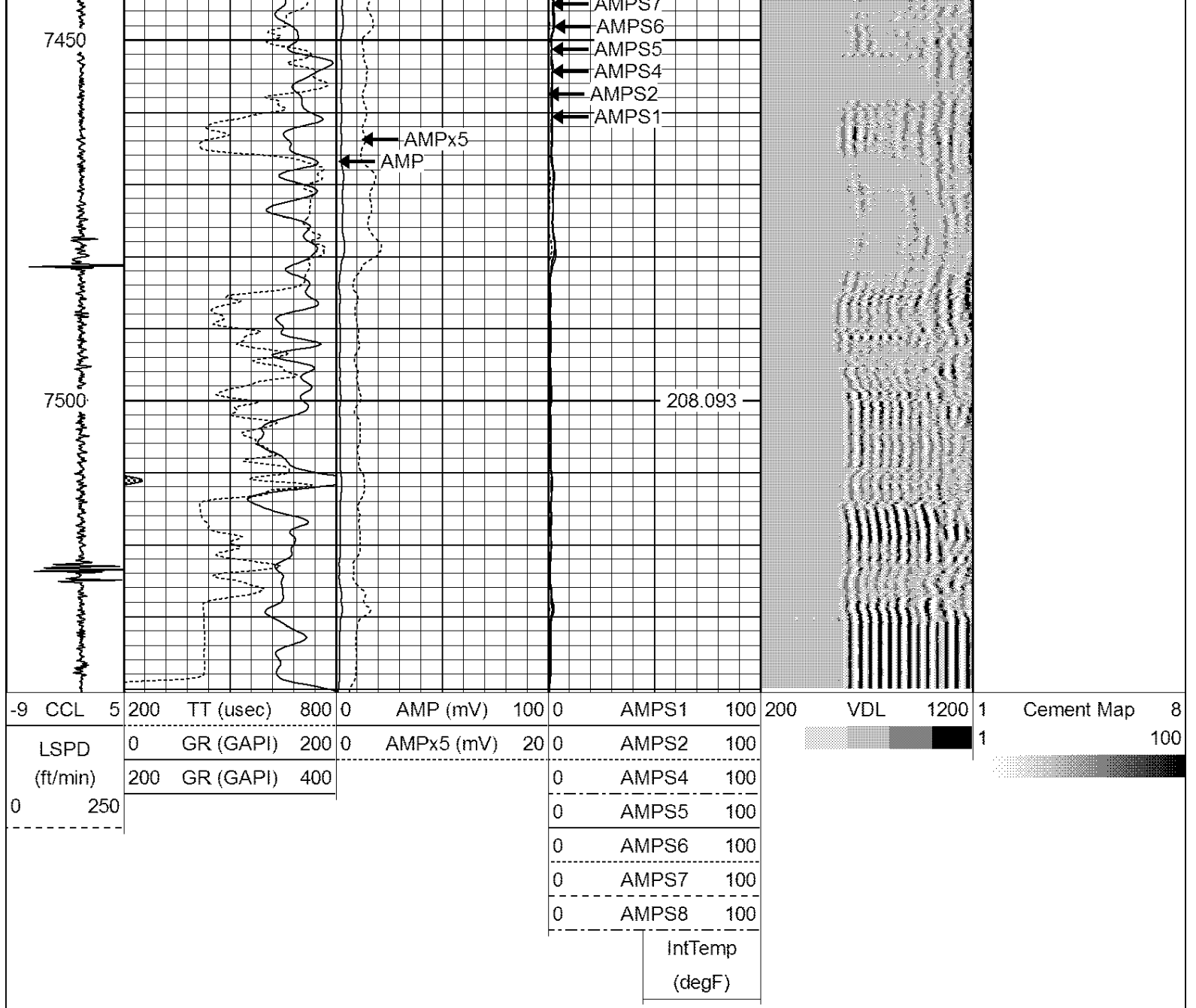












WARRIOR
ENERGY SERVICES

Company Kerr McGee Oil and Gas

Well NELSON HAROLD UNIT "A" TRUE #1

Field WATTENBERG

County WELD

State CO