



**RADIAL CEMENT BOND
GAMMA RAY
CCL**

Company		KERR MCGEE OIL AND GAS	
Well		HSR ELLIOT FARMS 7-18	
Field		WATTENBERG	
County		WELD	
State		CO	
Location:		API # : 05-123-17972	
Permanent Datum		GL	Elevation
Log Measured From		KB 10'	4829'
Drilling Measured From		KB	Elevation
			KB. 4839'
			D.F. 4938'
			G.L. 4829'
SEC 18		TWP 3N	RGE 67W
Date		3-4-14	
Run Number	ONE		
Depth Driller	731'		
Depth Logger	4338'		
Bottom Logged Interval	4335'		
Top Log Interval	SURFACE		
Open Hole Size	7.875		
Type Fluid	WATER		
Density / Viscosity	1.0		
Max. Recorded Temp.	N/A		
Estimated Cement Top	4040'		
Time Well Ready	N/A		
Time Logger on Bottom	N/A		
Equipment Number	4310		
Location	GREELEY		
Recorded By	N. BREHMER		
Witnessed By	R. CINTORA		
Borehole Record		Tubing Record	
Run Number	Bit	From	To
ONE			
TWO			
Casing Record	Size	Wgt/Ft	Top
Surface String	8.63	24#	0
Prot. String			
Production String	2.875	6.5#	0
Liner			

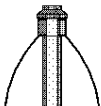
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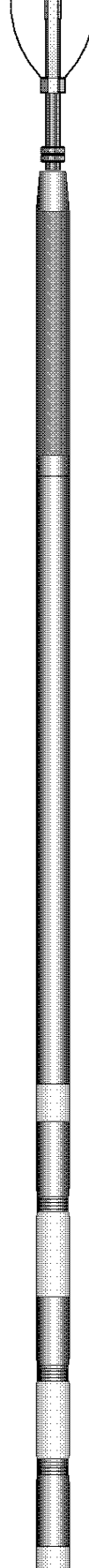
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

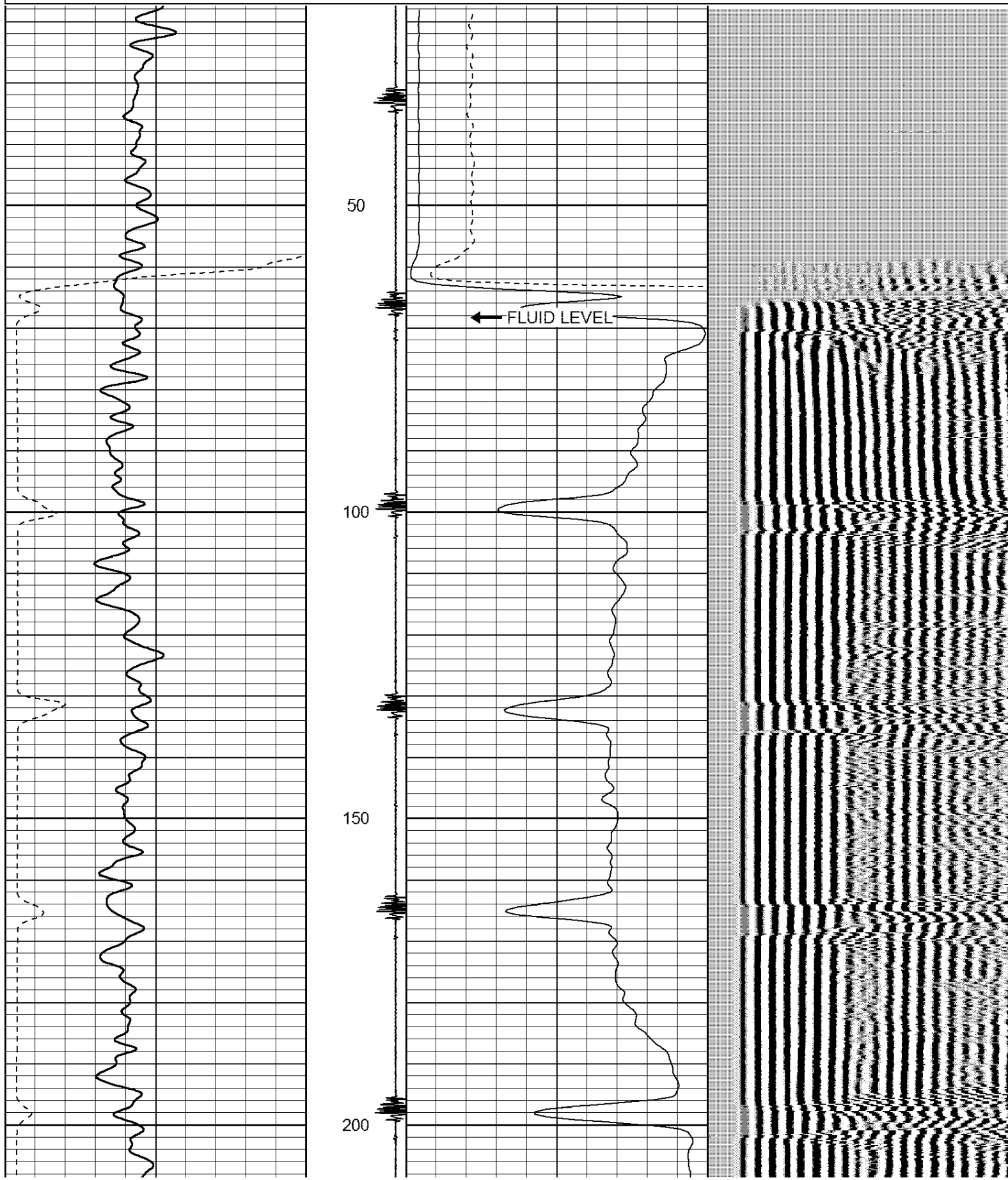
RAN CBL TO VERIFY CEMENT BOND

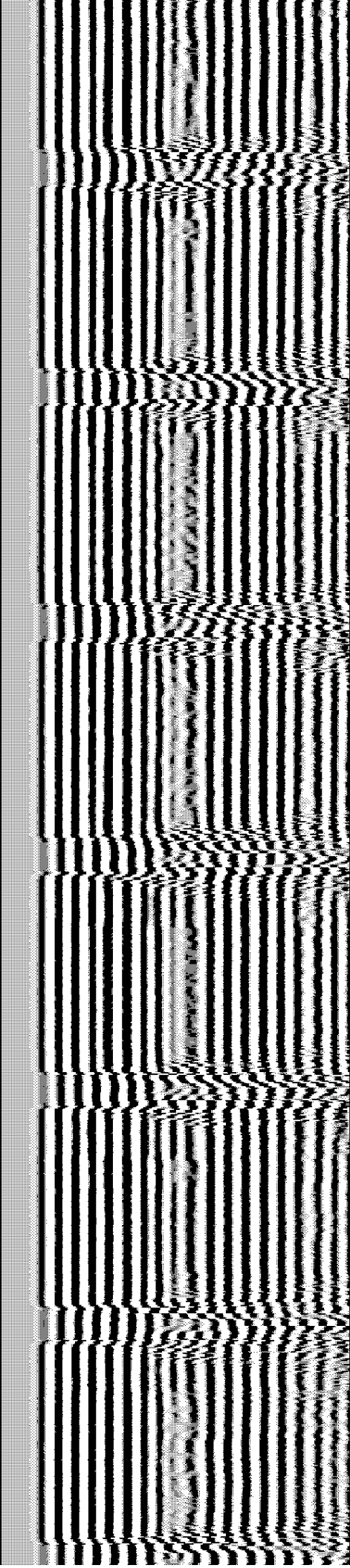
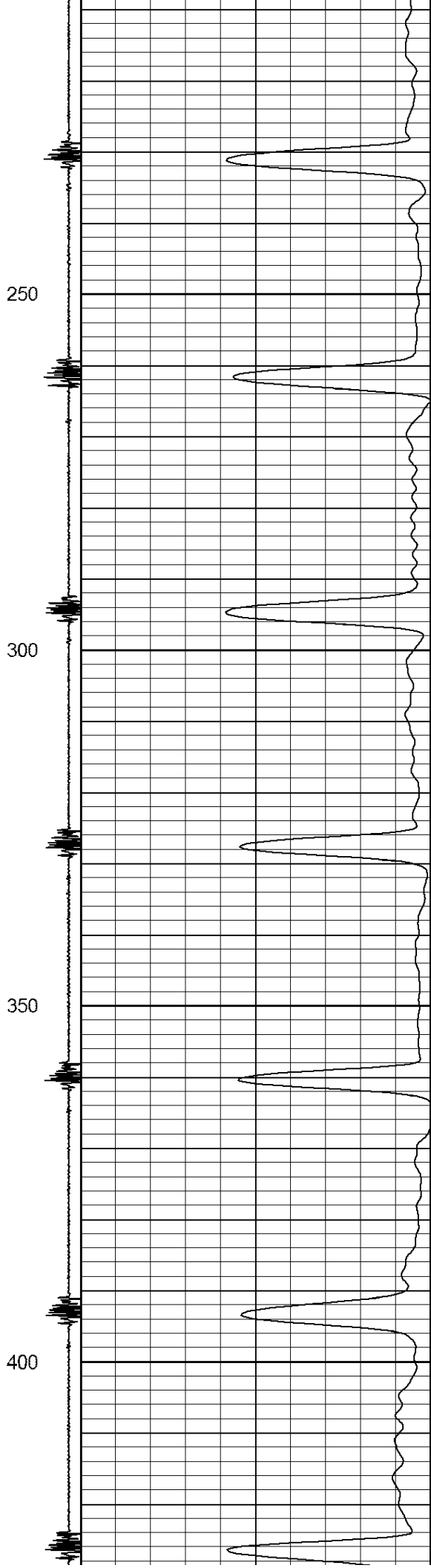
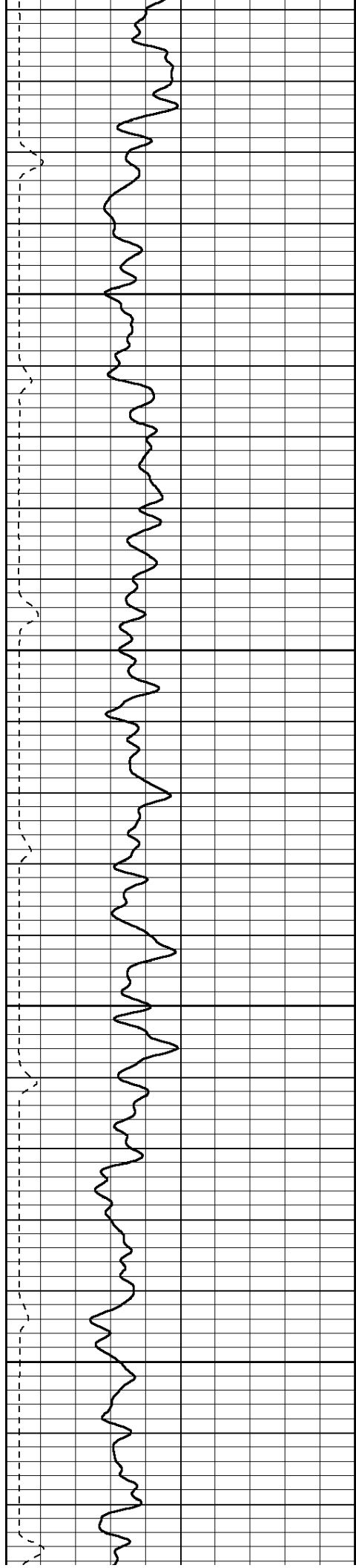
THANK YOU FOR USING WARRIOR !!!!!!!

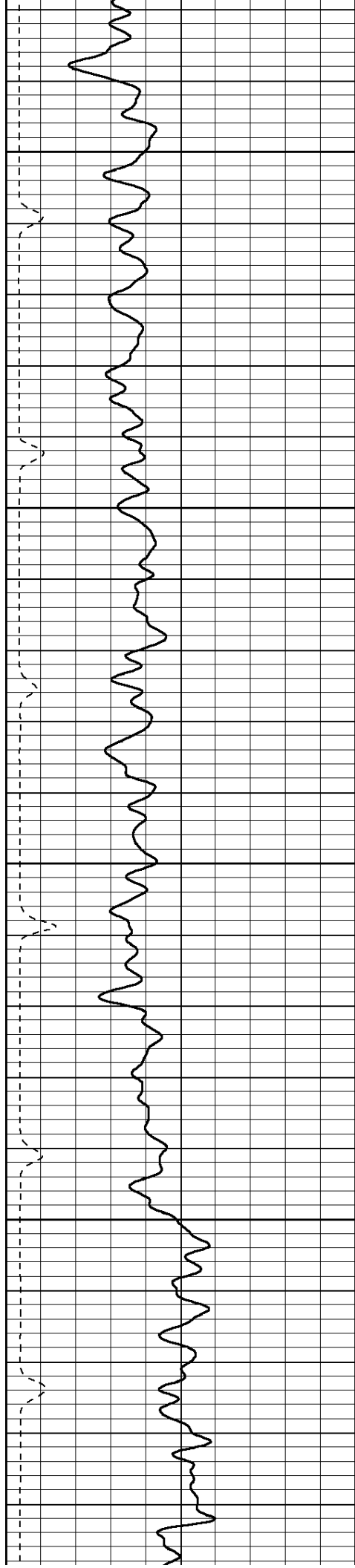
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
						

				CENT-ComProbe (cmpcent)	2.21	1.69	5.00
CCL	10.17			CCL-CMP35CCL (CMP35A)	2.50	2.12	30.00
GR	8.58			GR-Cmp35GR (CMP35A) Dual Reciever Gamma Ray	5.00	2.13	15.00
WVF3	2.33			CBL-sb2 (20000)	4.00	2.13	40.00
WVF5	0.00						
Dataset: new well.db: field/well/run1/pass4 Total Length: 13.71 ft Total Weight: 90.00 lb O.D. 2.13 in							

0	Gamma Ray (cps)	200	Collar Locator	0	Amplified Amplitude (mV)	20	200	VDL	1200
200	TT3 (usec)	1000	9	-1	0	Amplitude (mV)	100		
200	gr (cps)	400							





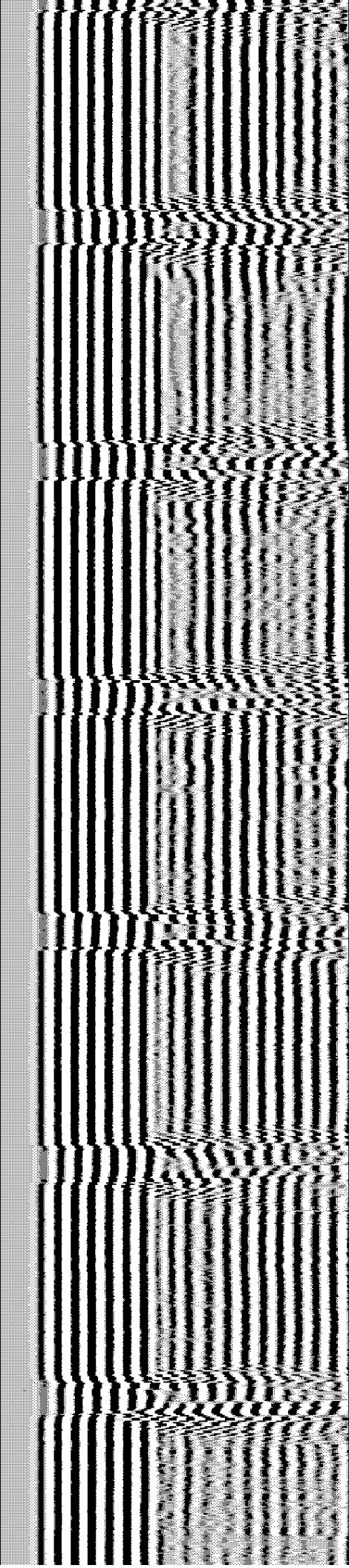
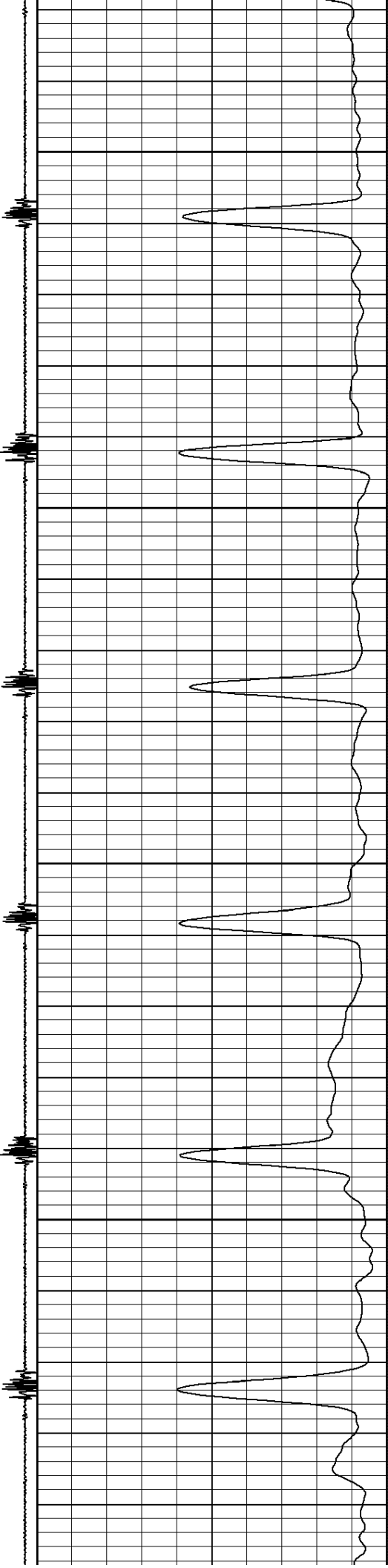


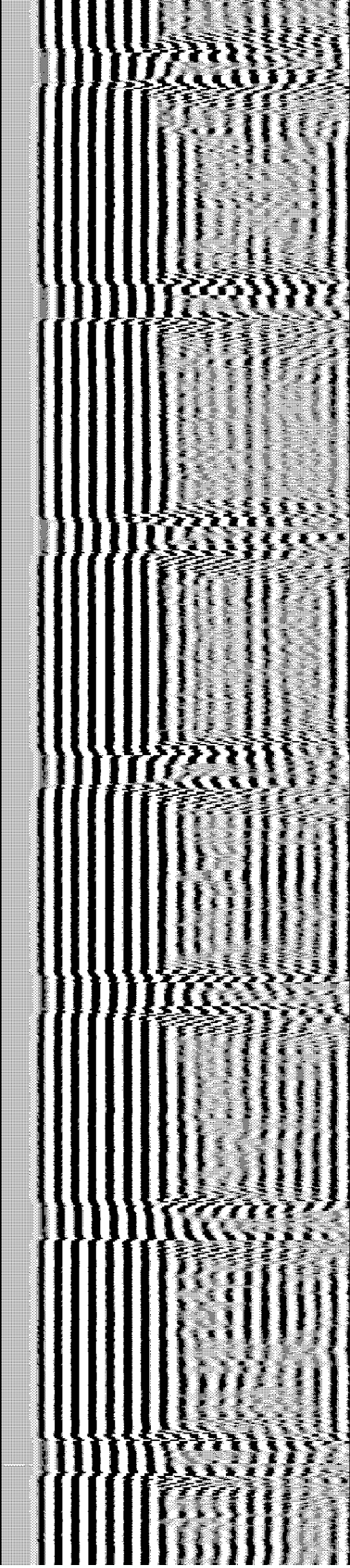
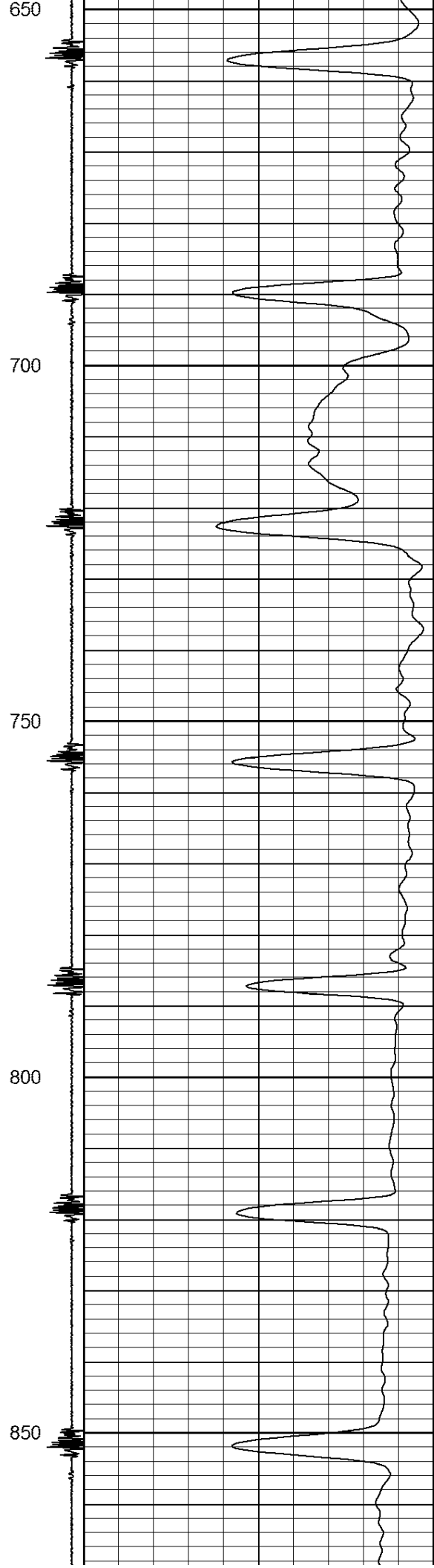
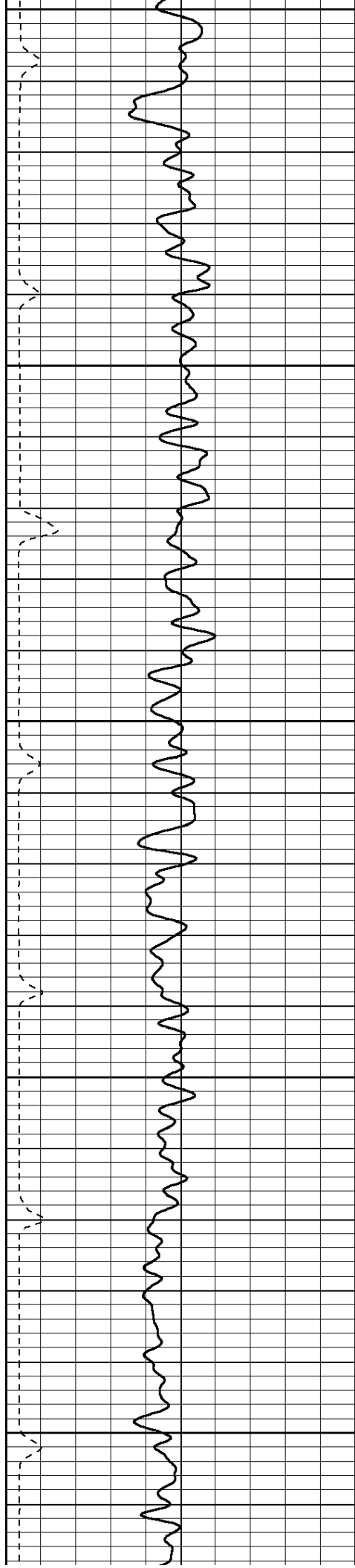
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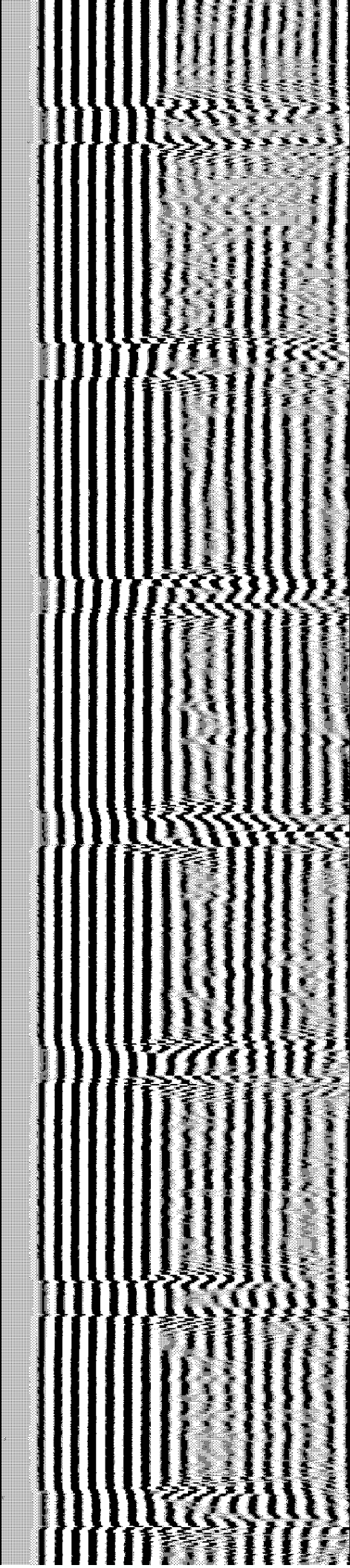
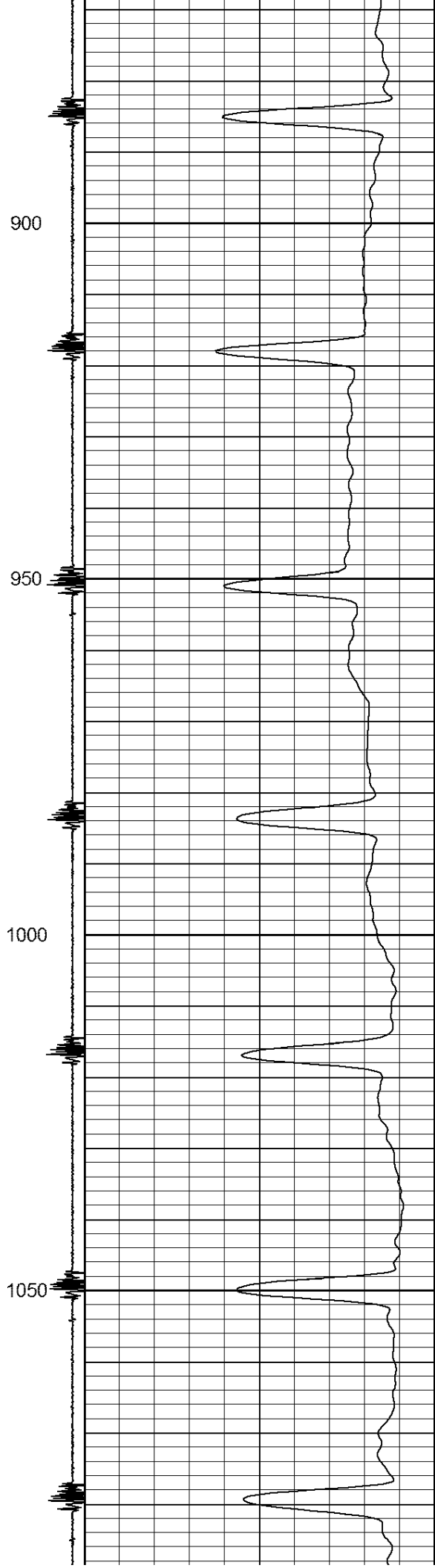
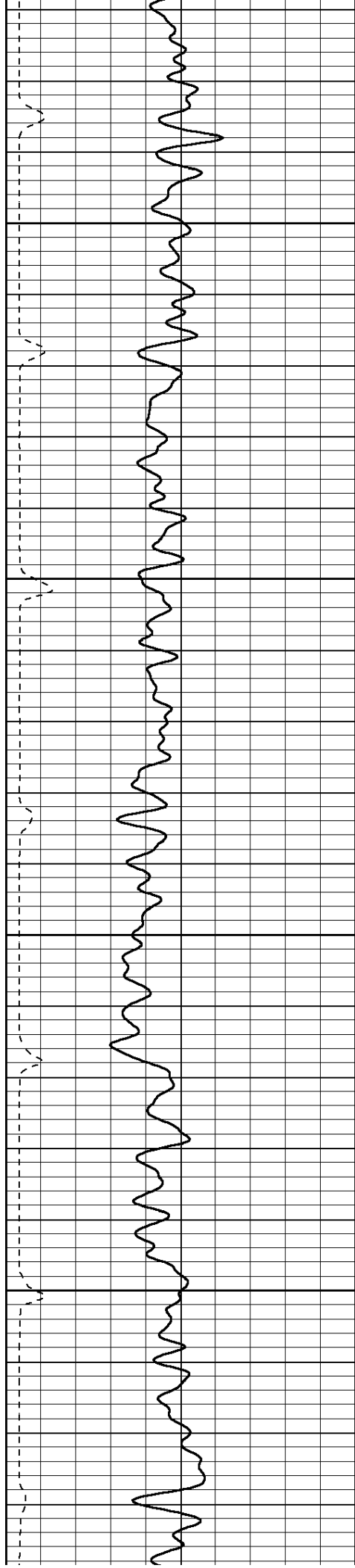
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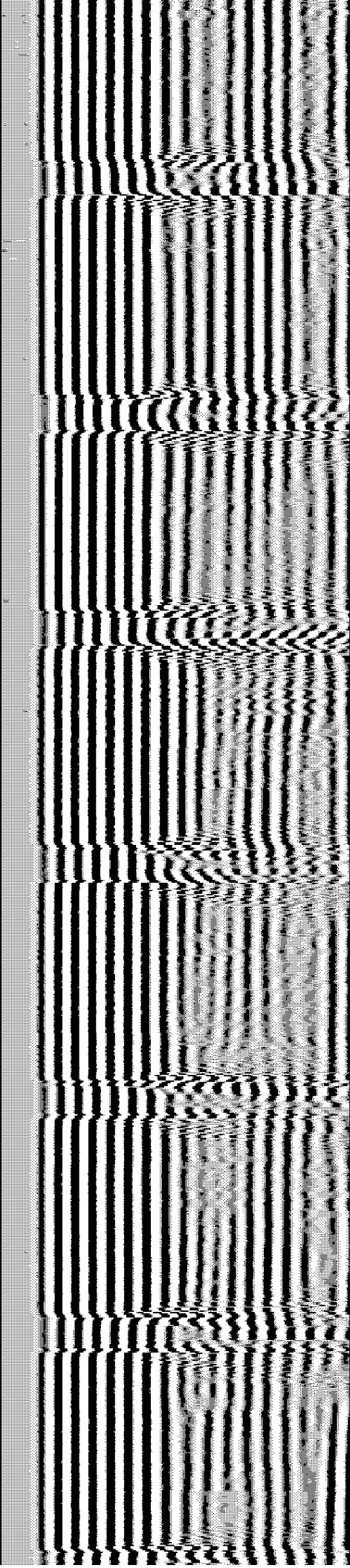
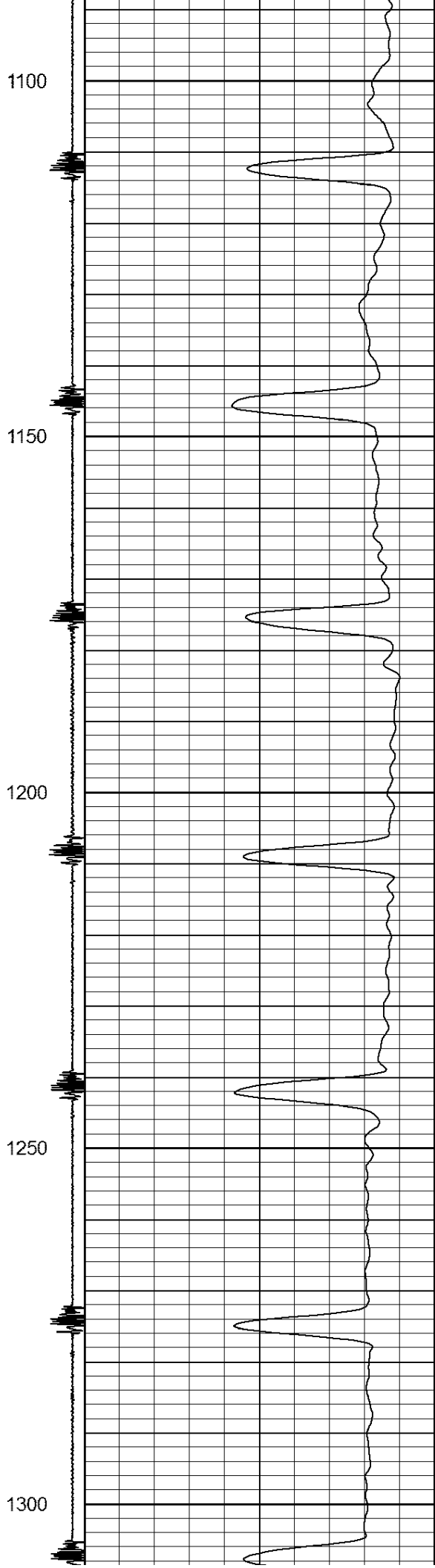
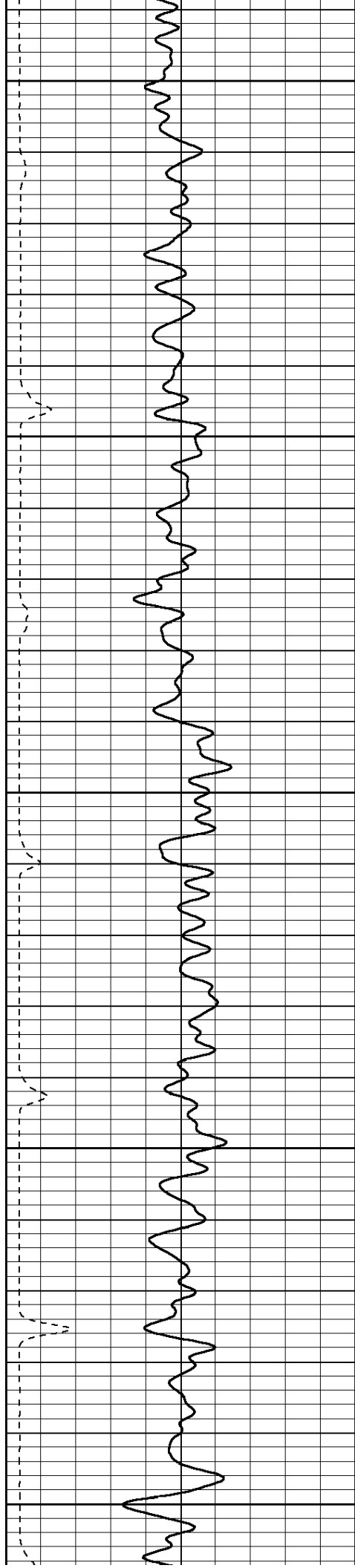
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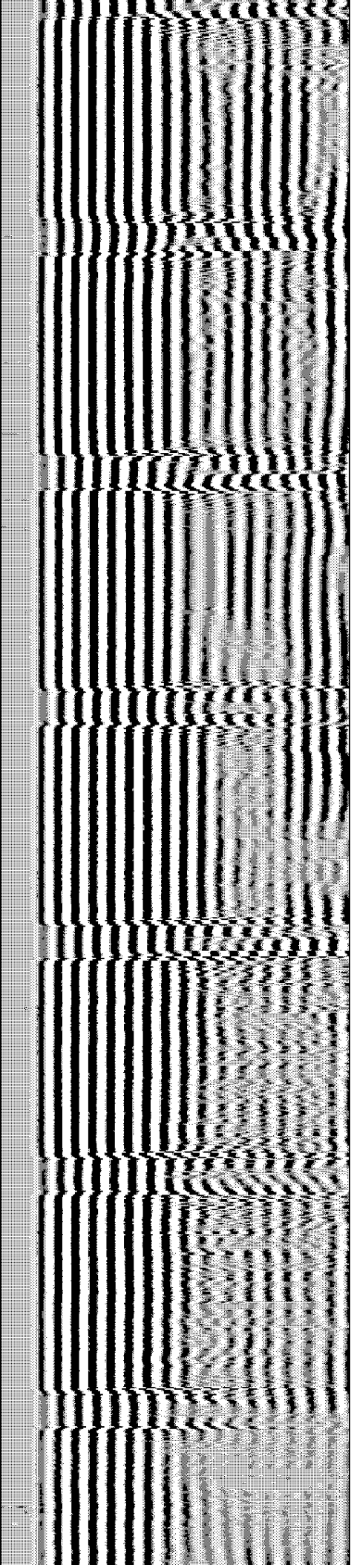
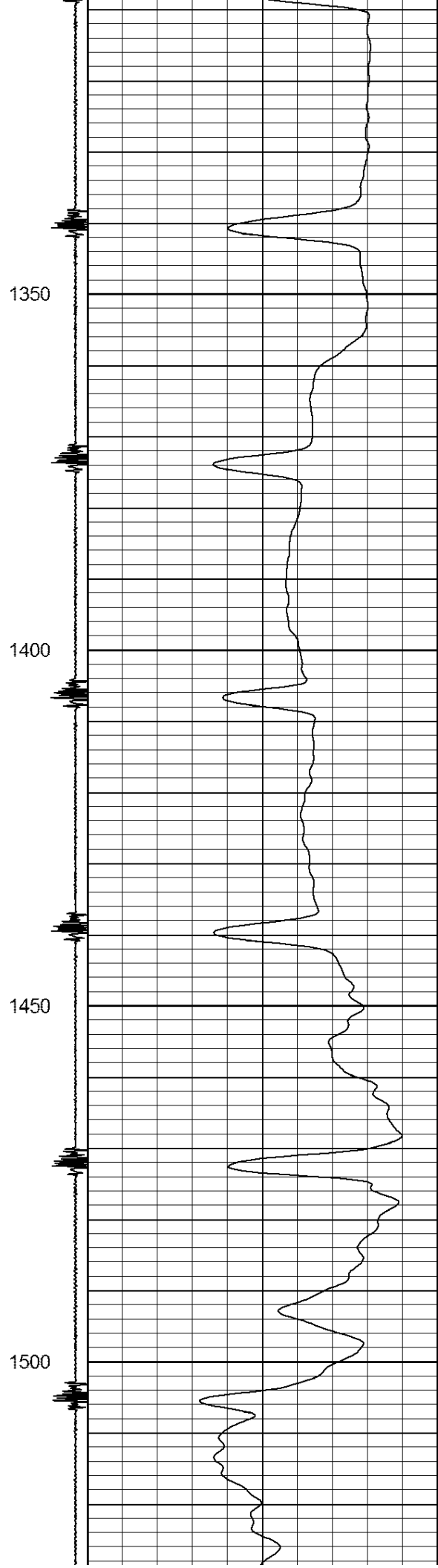
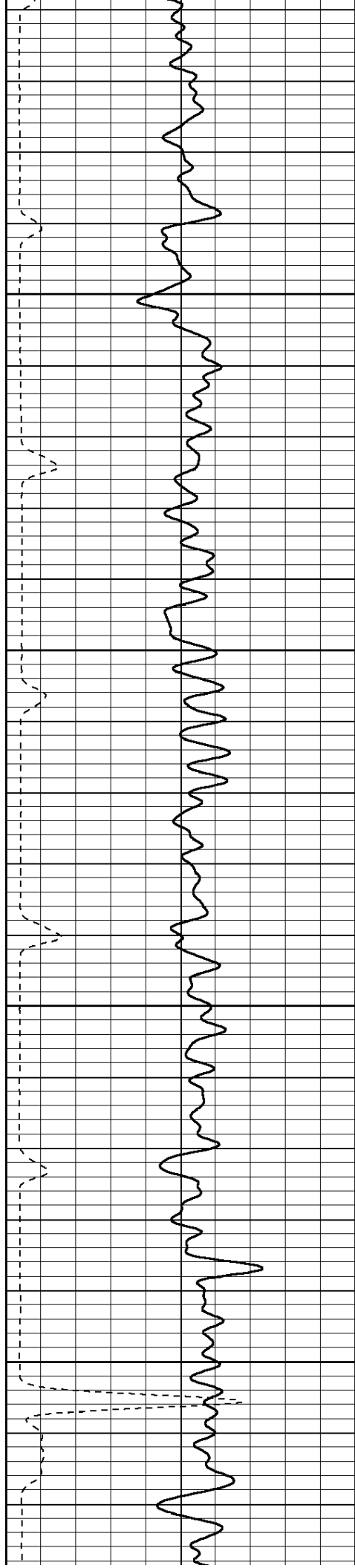
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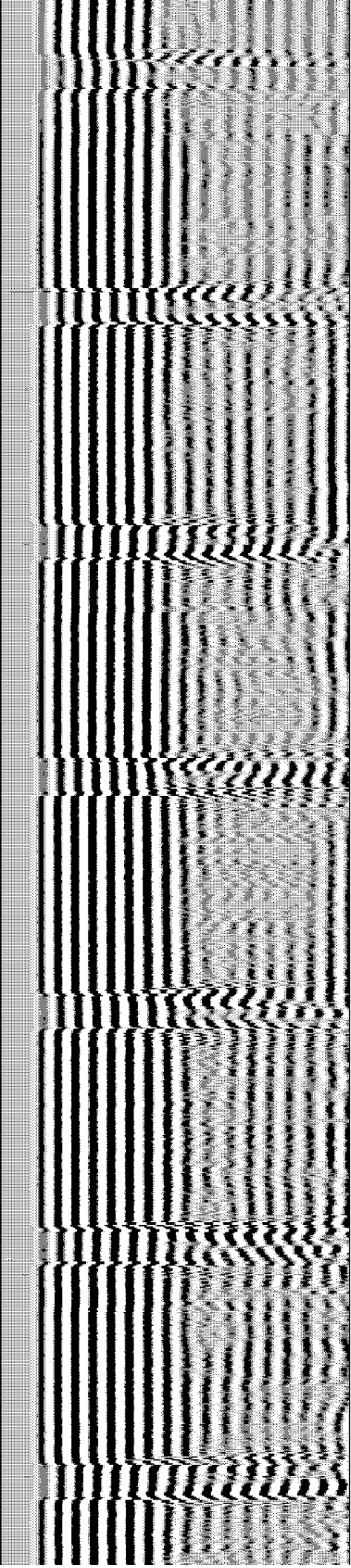
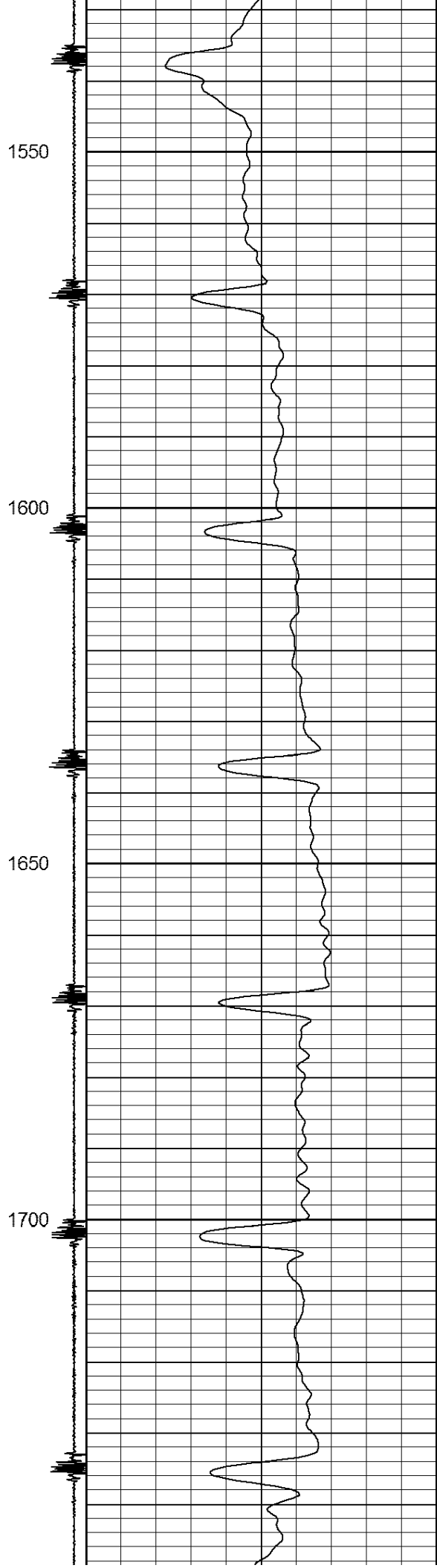
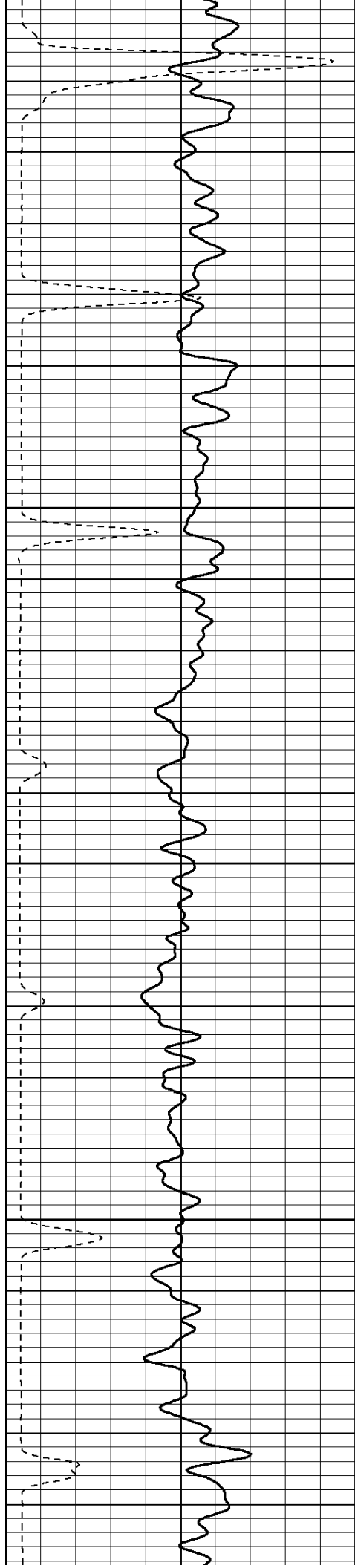


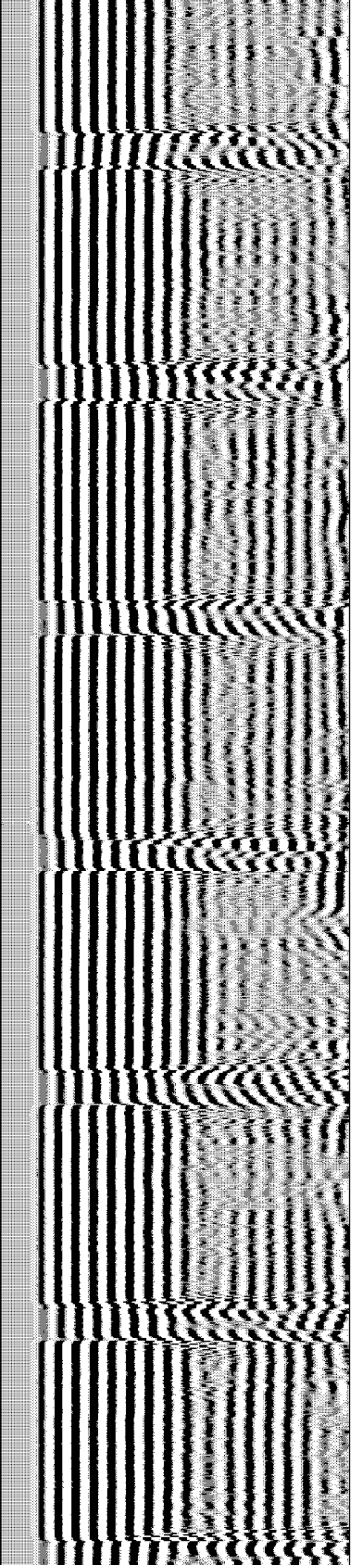
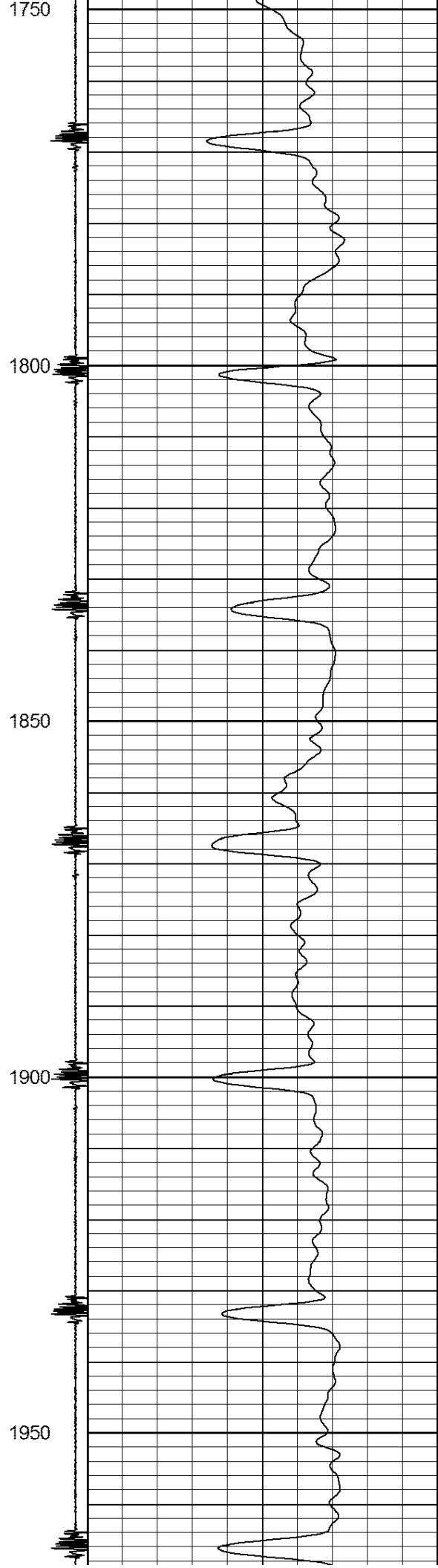
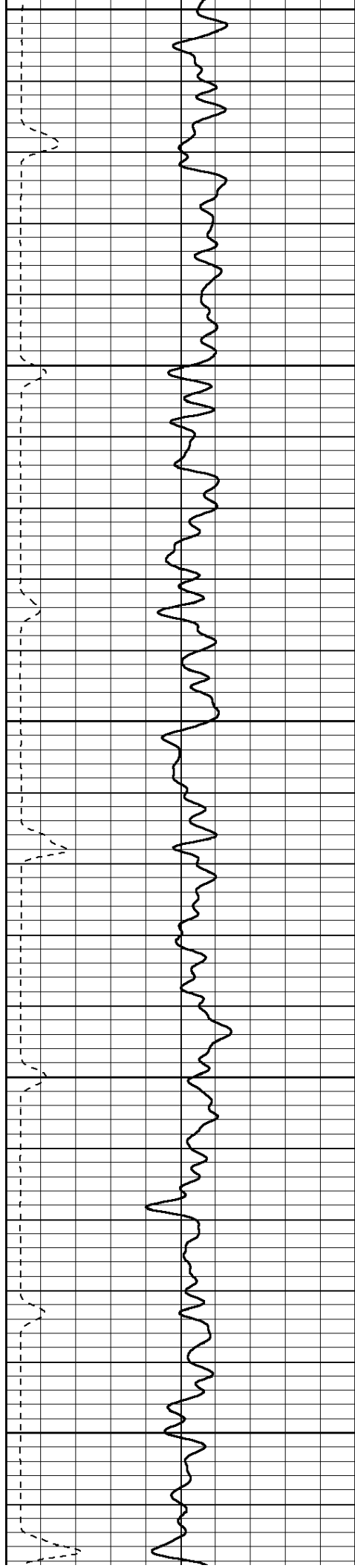


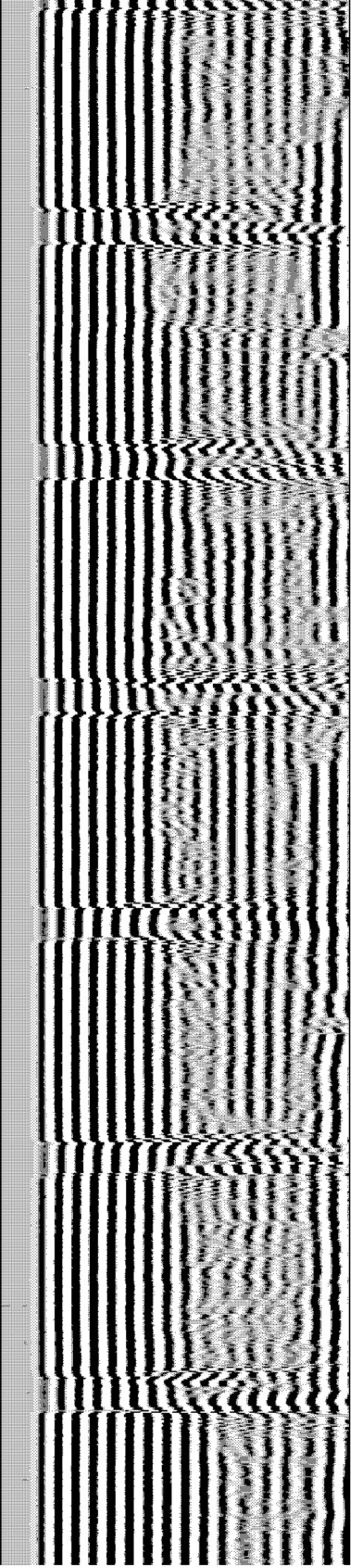
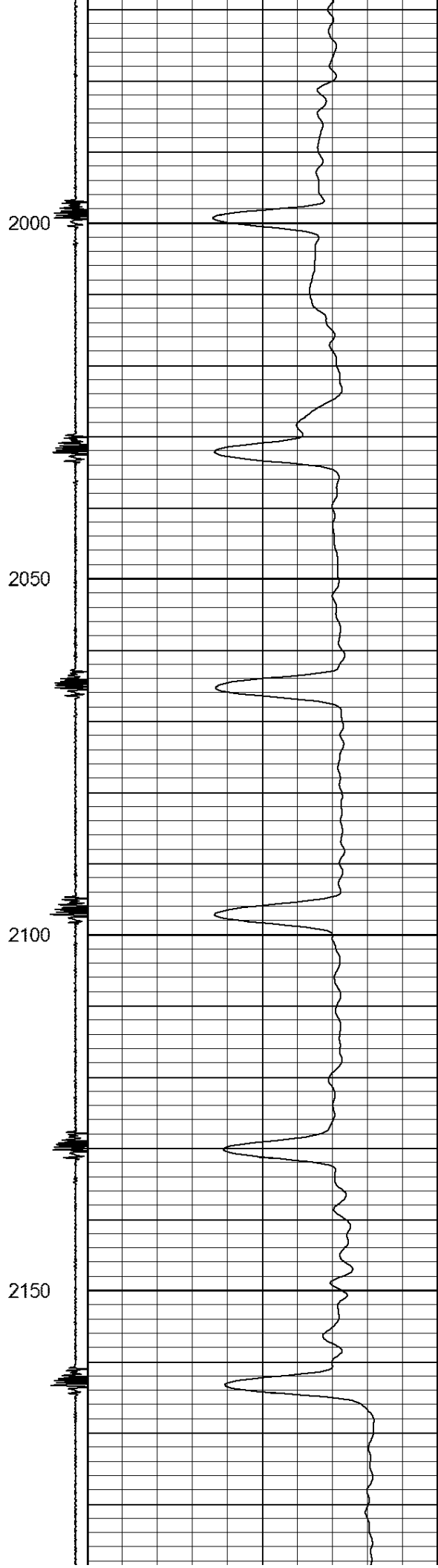
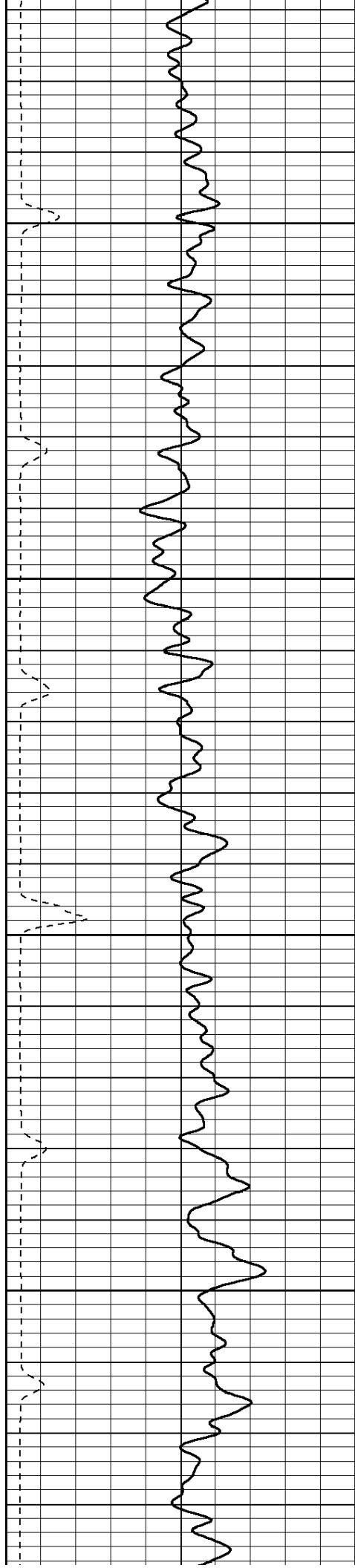


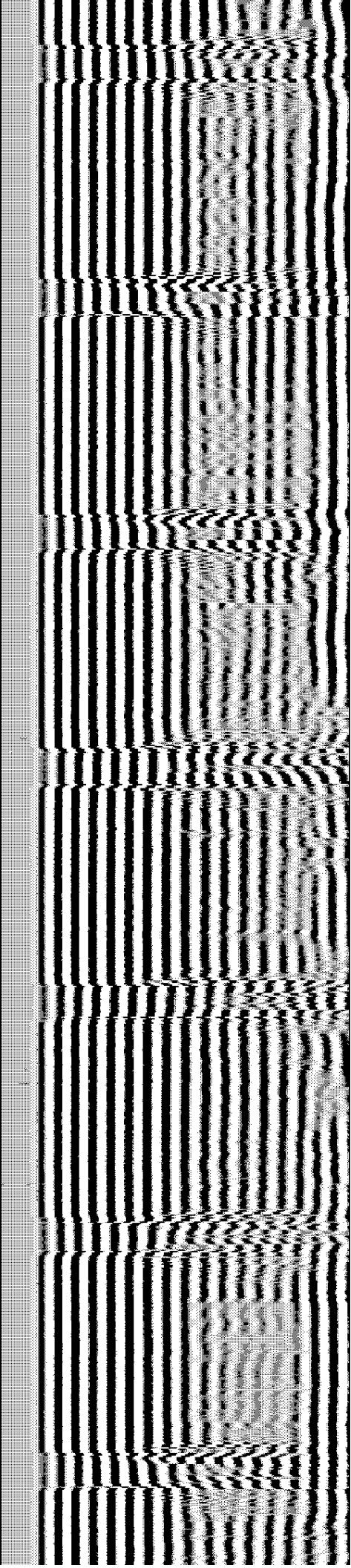
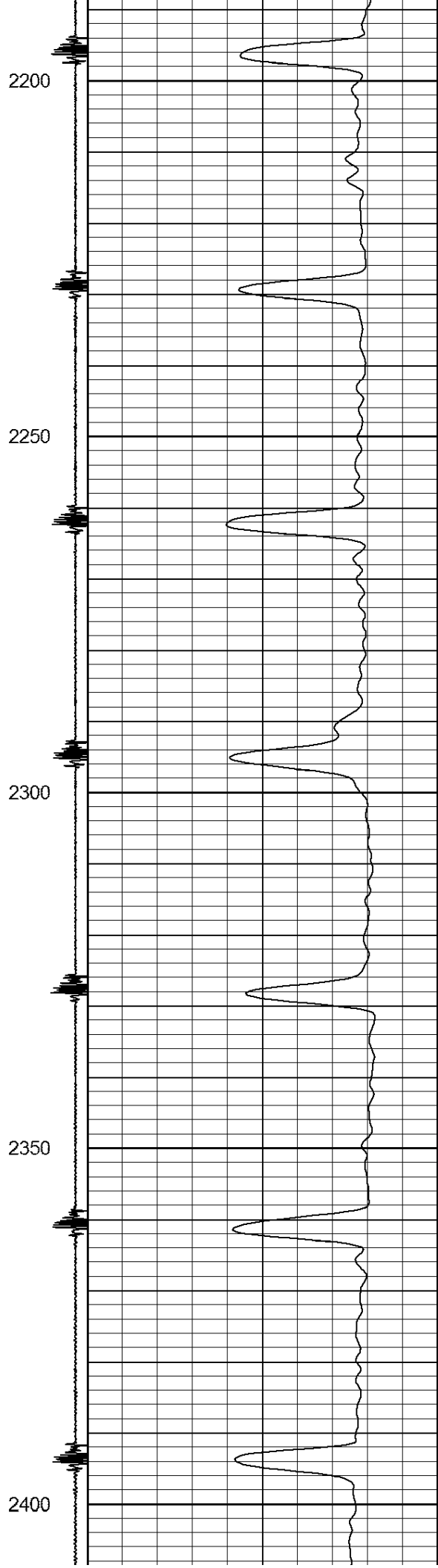
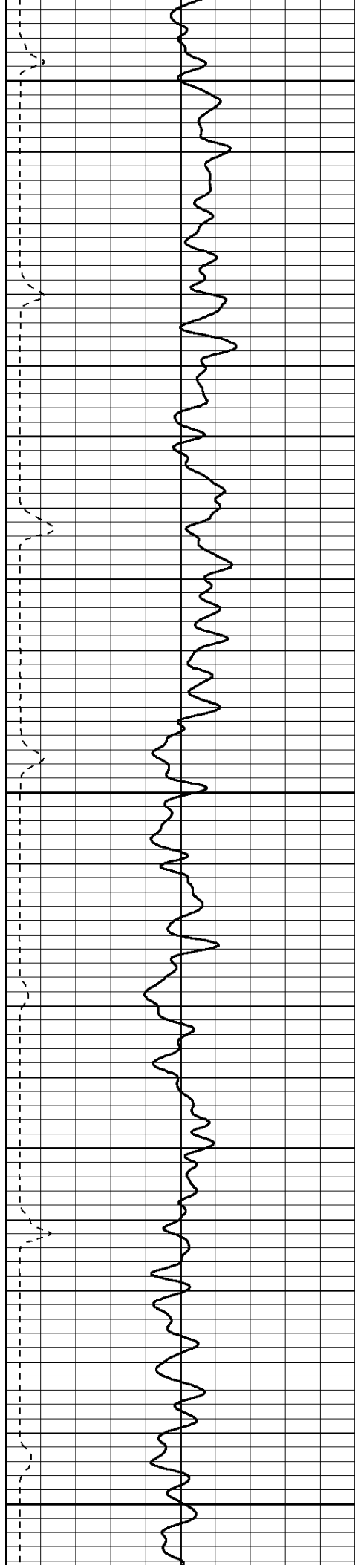


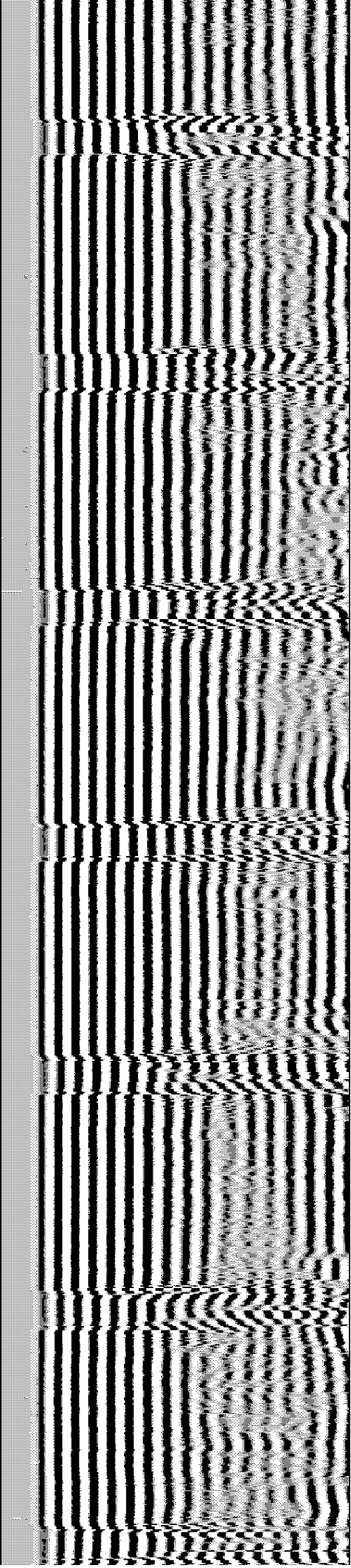
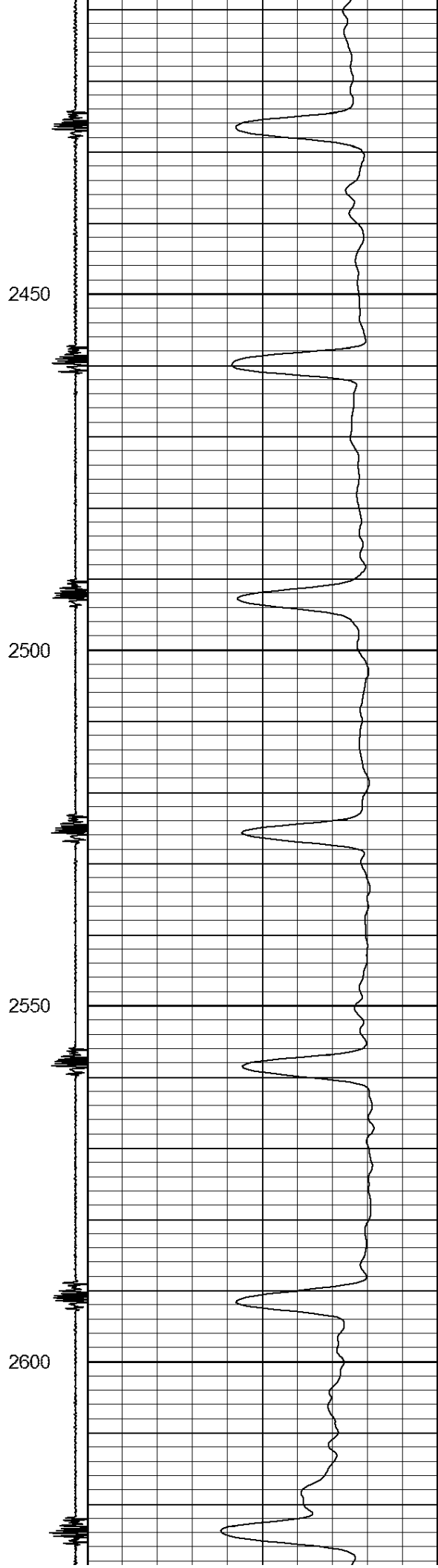
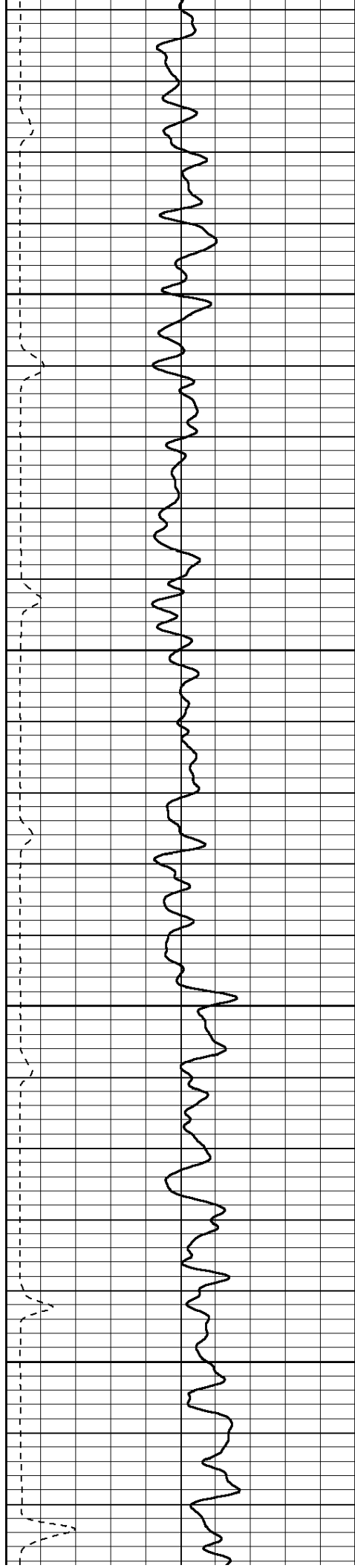


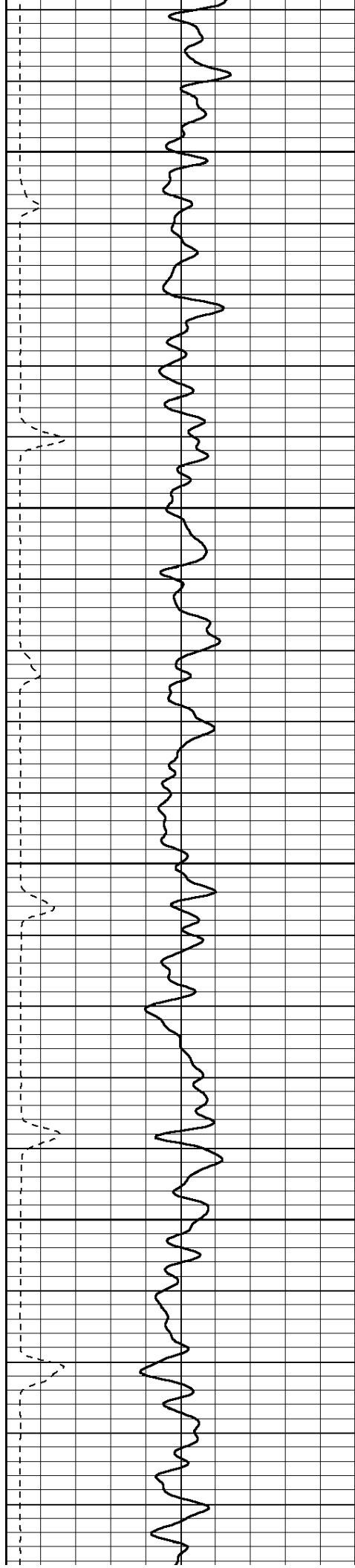










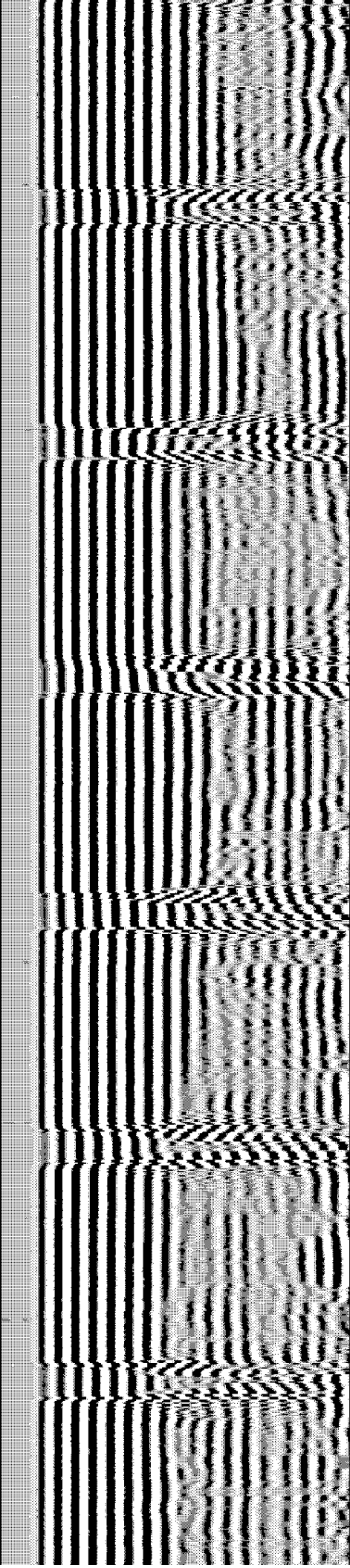
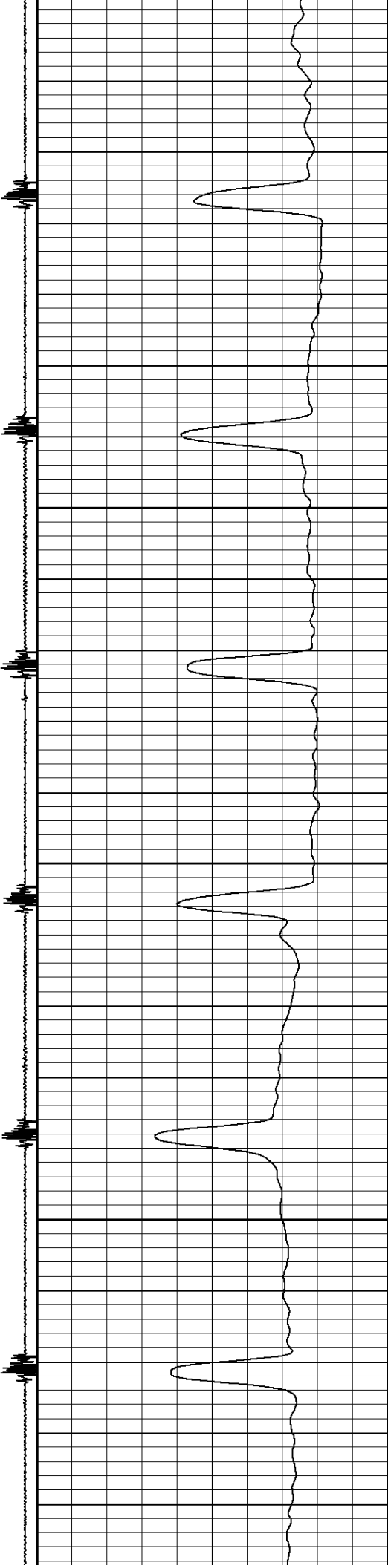


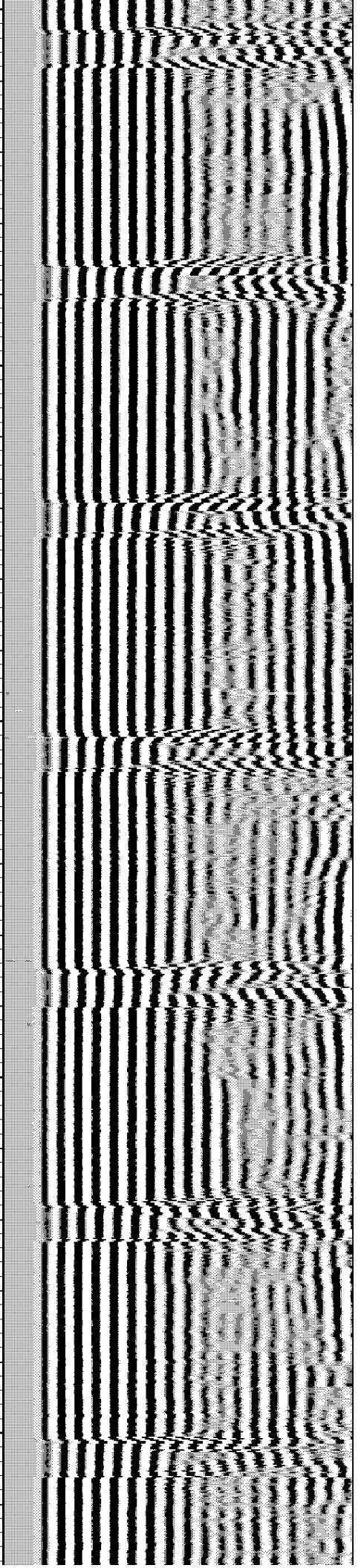
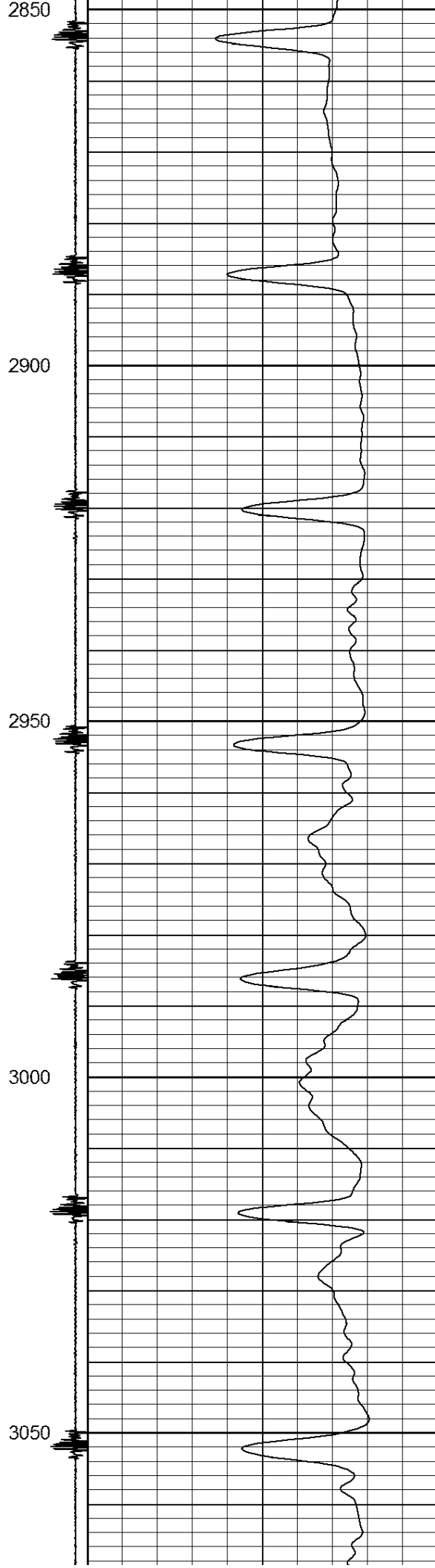
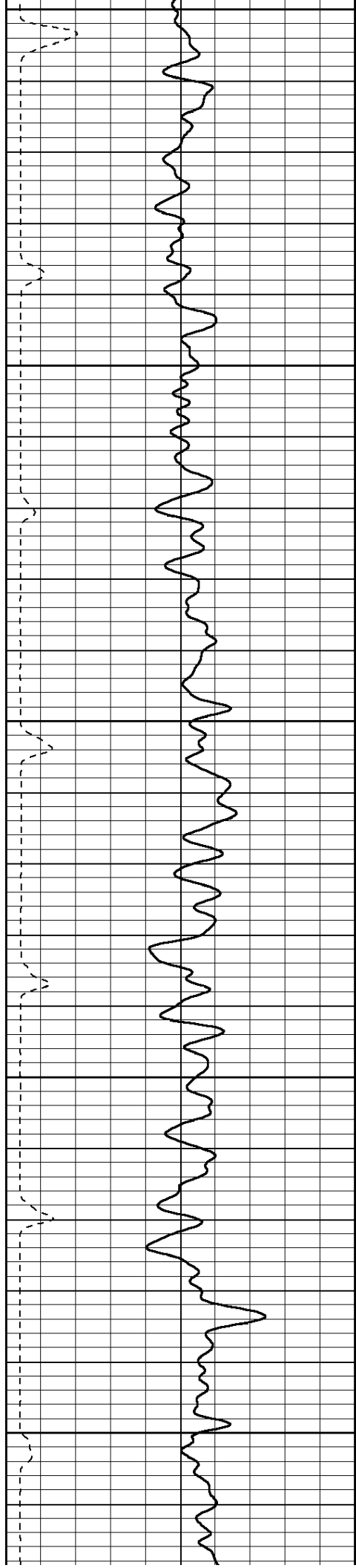
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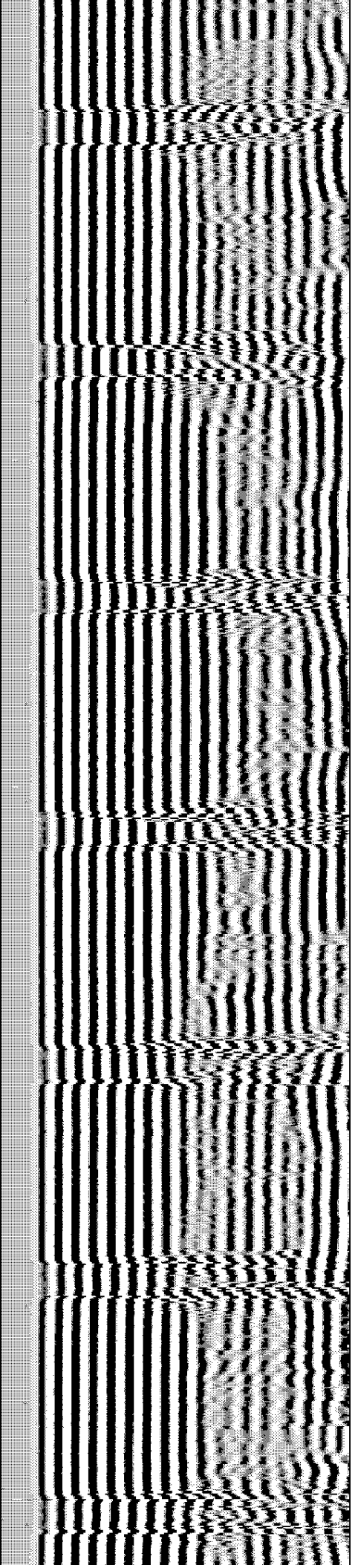
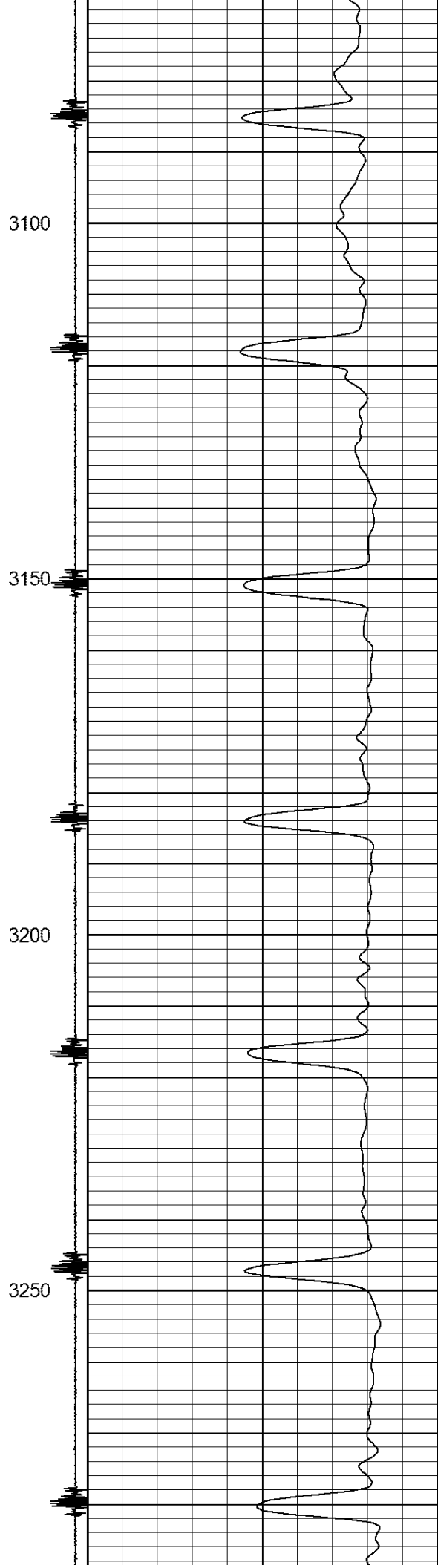
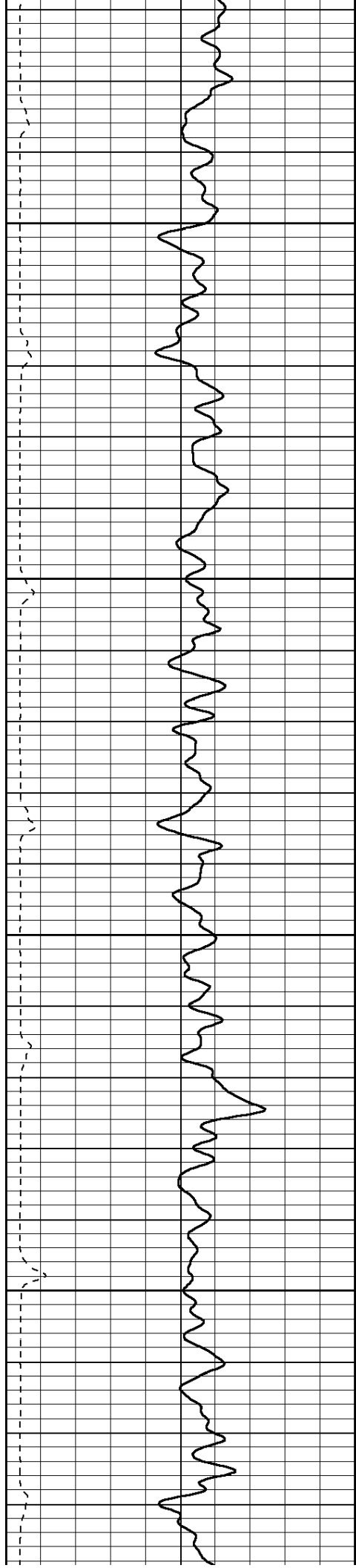
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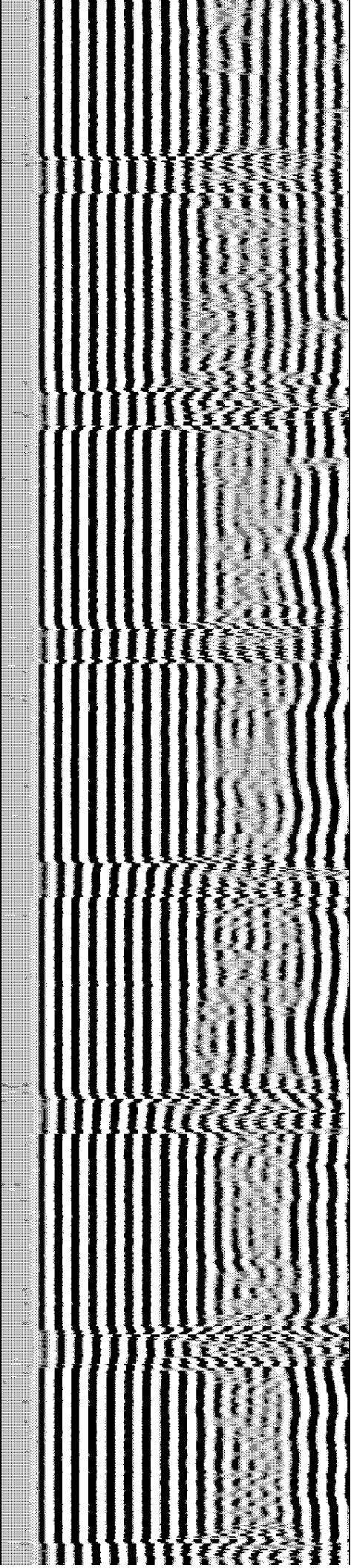
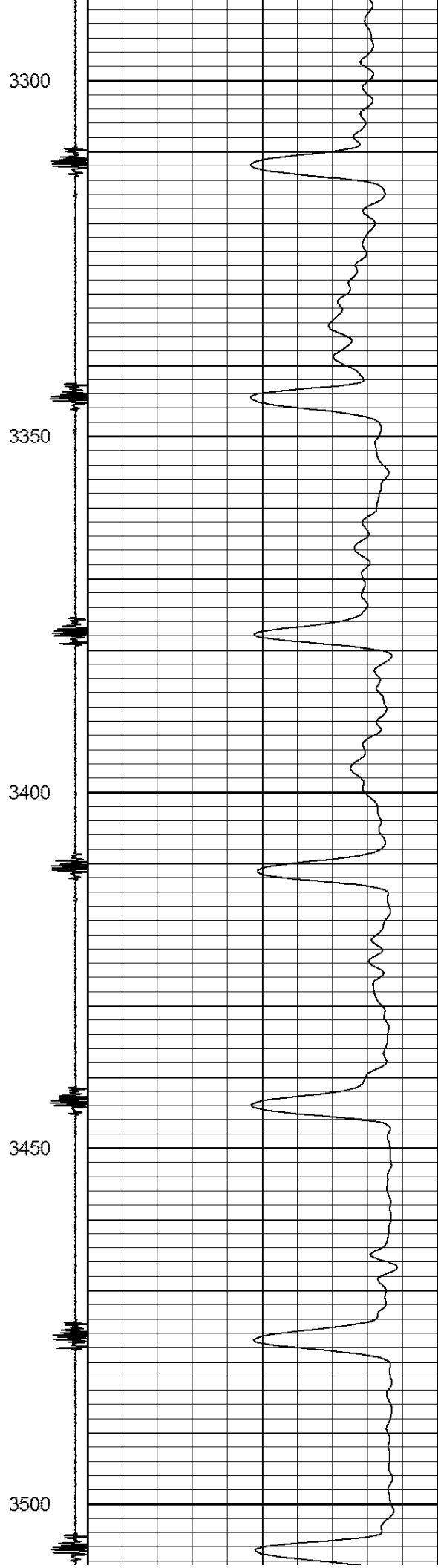
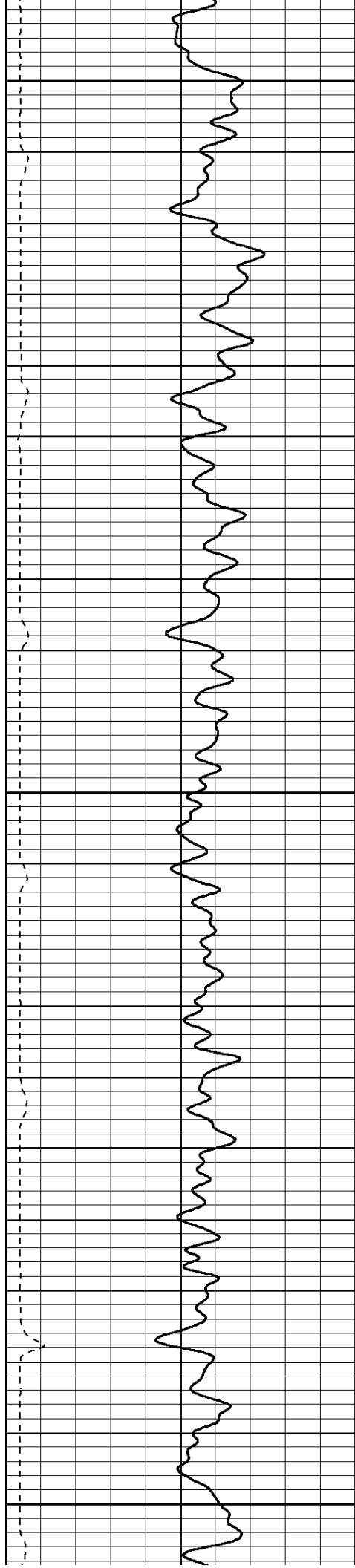
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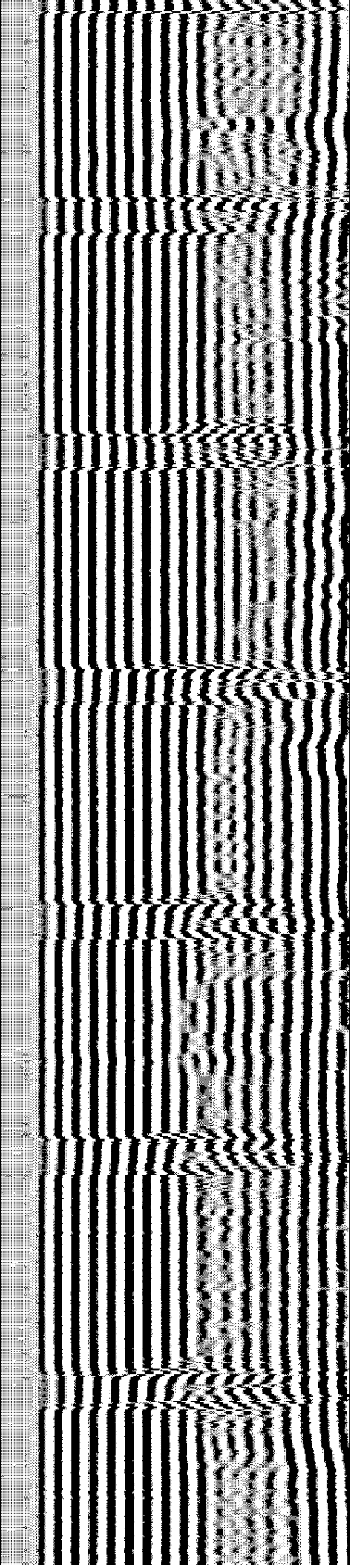
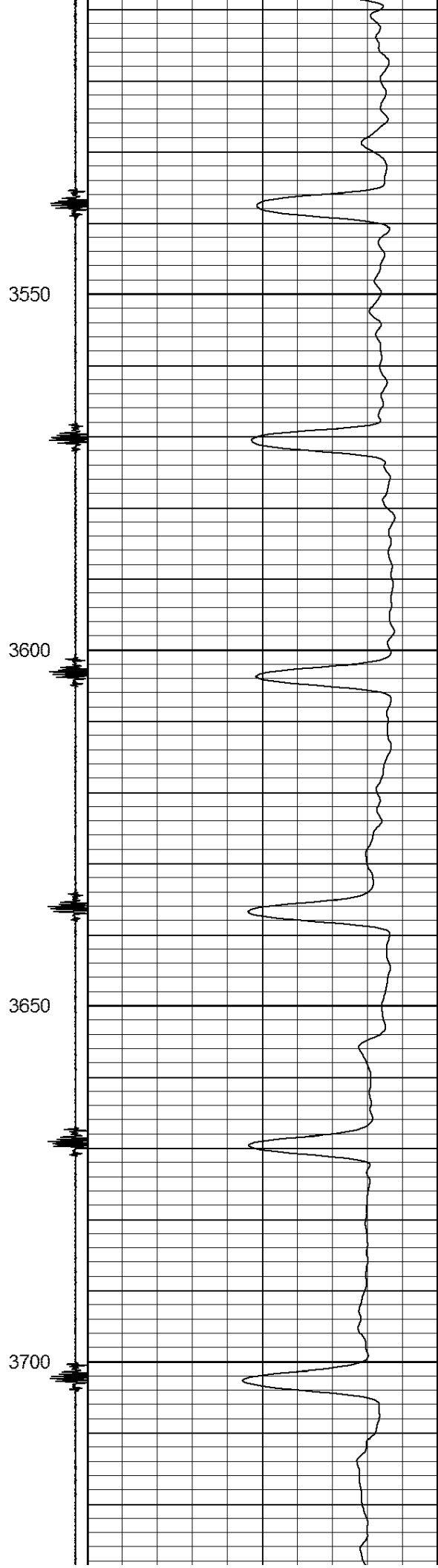
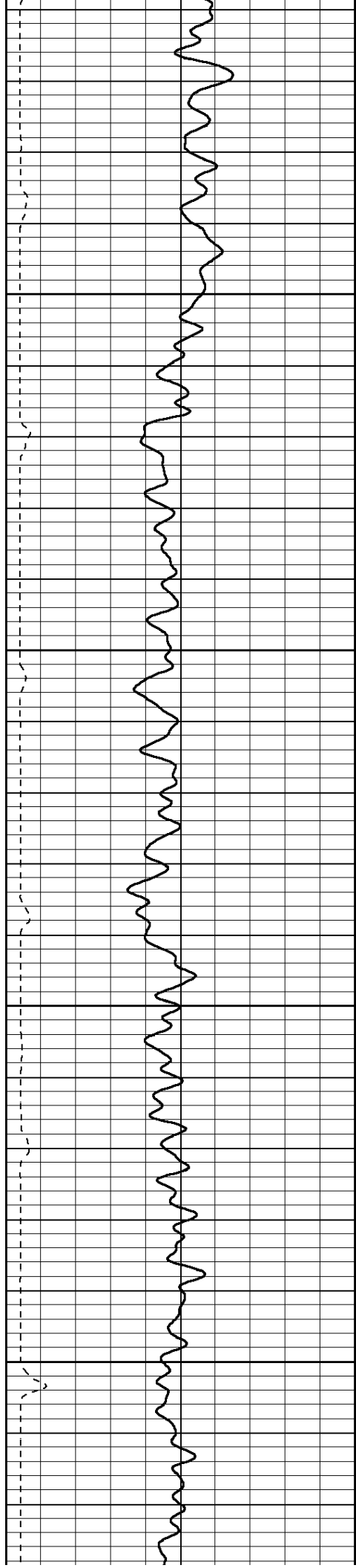
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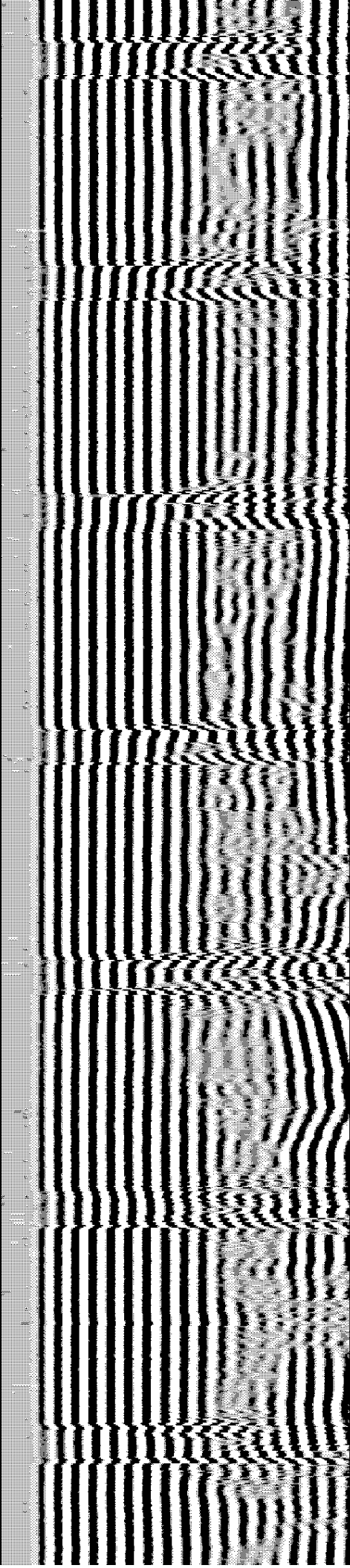
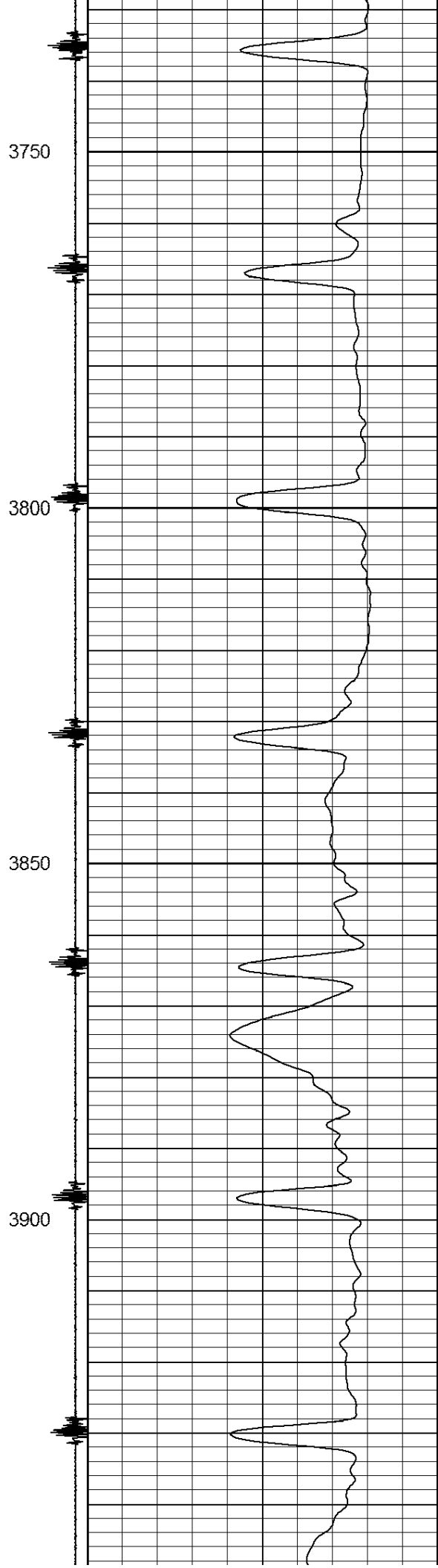
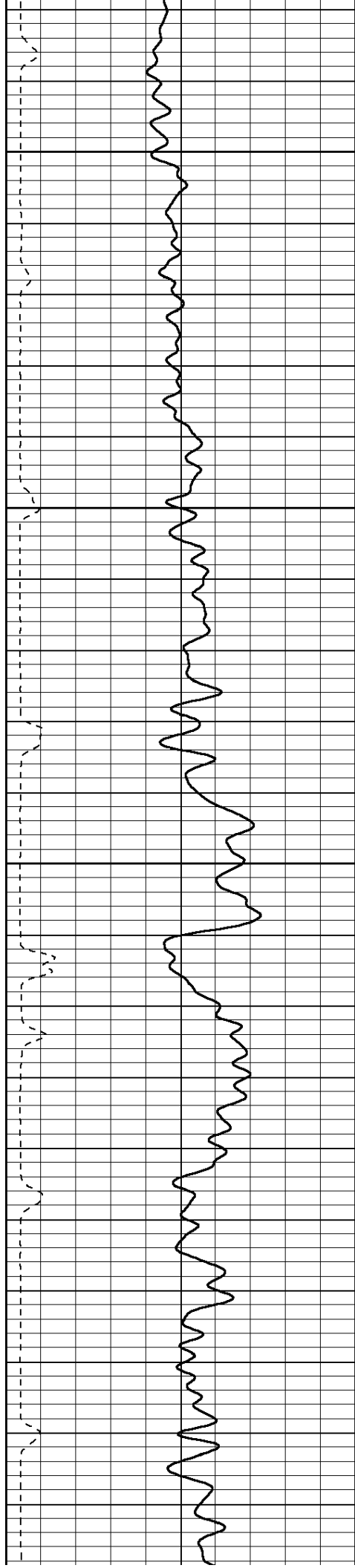


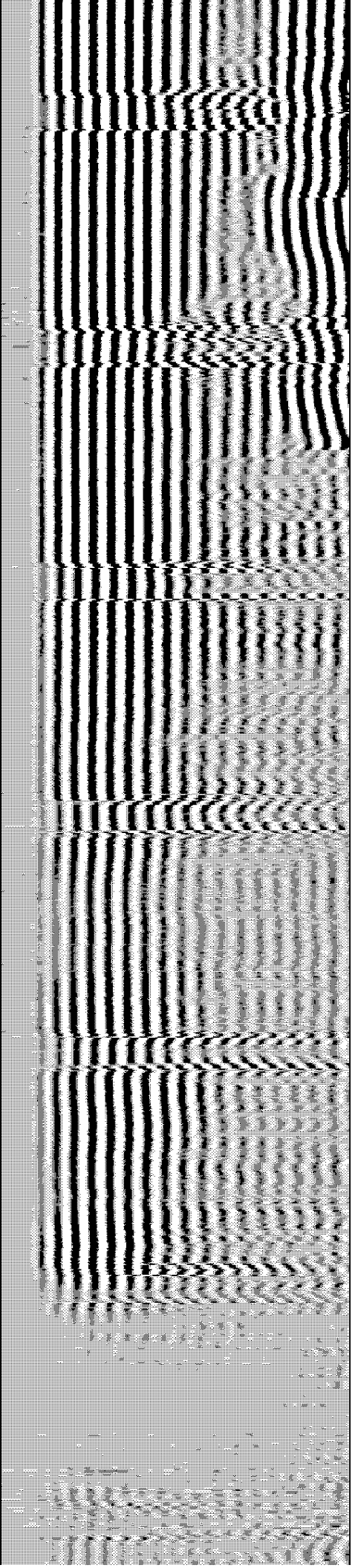
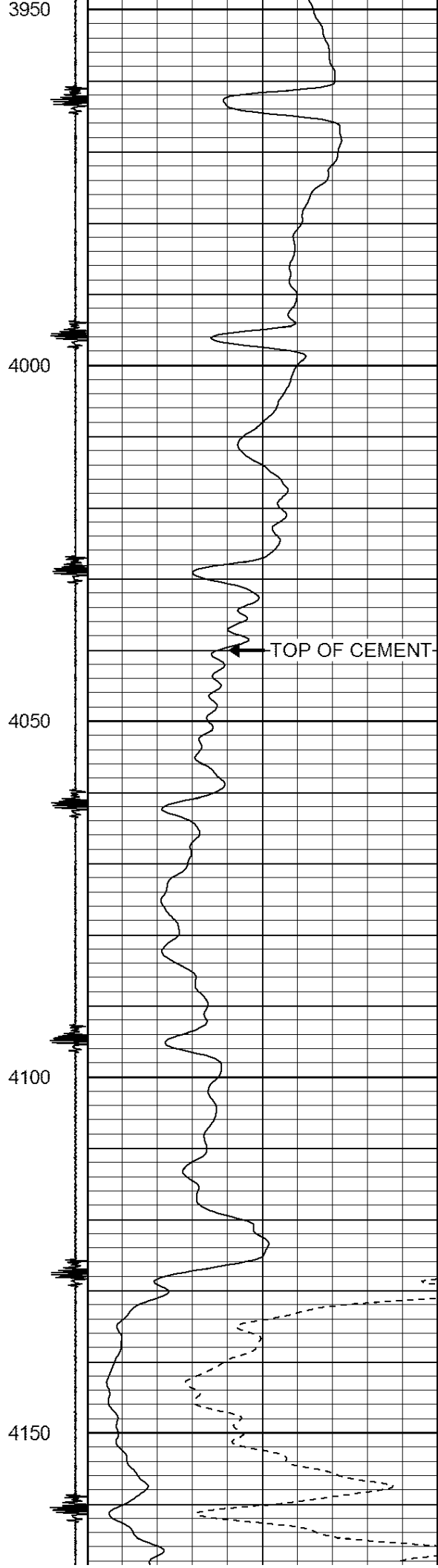
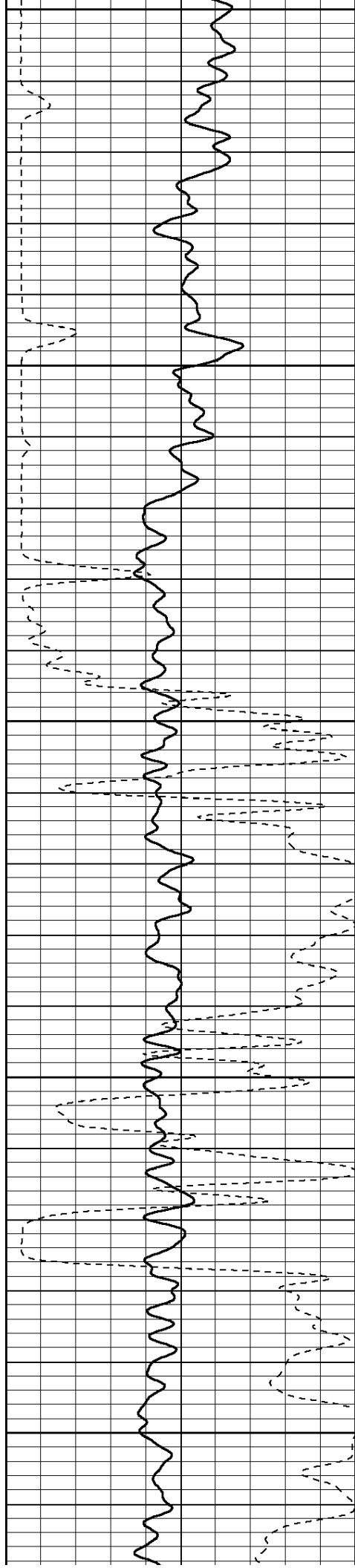


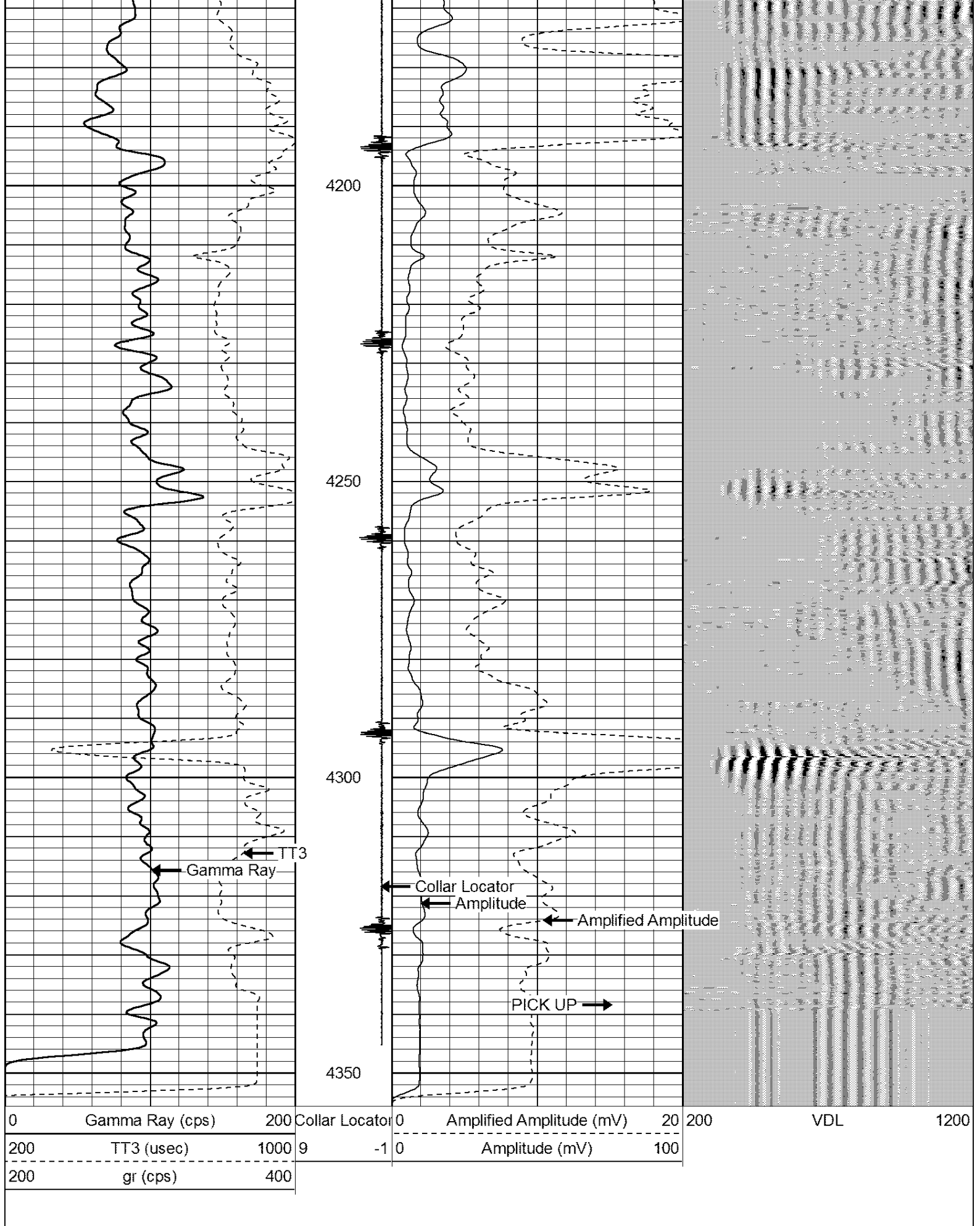


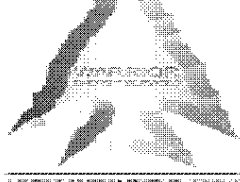












WARRIOR

ENERGY SERVICES

Well	HSR ELLIOT FARMS 7-18
Field	WATTENBERG
County	WELD
State	CO