



**RADIAL CEMENT BOND  
GAMMA RAY  
CCL**

Company		KERR MCGEE OIL AND GAS	
Well		STATE L 16-16	
Field		WATTENBERG	
County		WELD	
State		CO	
Company		KERR MCGEE OIL AND GAS	
Well		STATE L 16-16	
Field		WATTENBERG	
County		WELD	
State		CO	
Location:		API # : 05-123-14843	
Permanent Datum		GL	
Log Measured From		KB 10'	
Drilling Measured From		KB	
SEC 16		TWP 3N	
RGE 66W		Elevation 4881'	
Other Services		K.B. 4891'	
		D.F. 4890'	
		G.L. 4881'	
Date		12-12-2014	
Run Number		ONE	
Depth Driller		7501'	
Depth Logger		5628'	
Bottom Logged Interval		5617'	
Top Log Interval		SURFACE	
Open Hole Size		7.875	
Type Fluid		WATER	
Density / Viscosity		1.0	
Max. Recorded Temp.		N/A	
Estimated Cement Top		N/A	
Time Well Ready		N/A	
Time Logger on Bottom		N/A	
Equipment Number		4310	
Location		GREELEY	
Recorded By		N. BREHMER	
Witnessed By		L. MORALES	
Borehole Record		Tubing Record	
Run Number		Bit	
ONE		12.25"	
TWO		7.88"	
From		To	
SURFACE		550'	
550'		7501'	
Size		Wgt/Ft	
8.63		24#	
Top		Bottom	
SURFACE		540'	
Production String		2.875	
6.5#		SURFACE	
7501'			
Liner			

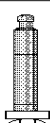
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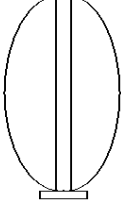
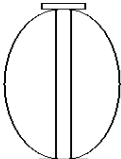
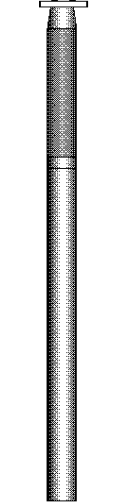
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

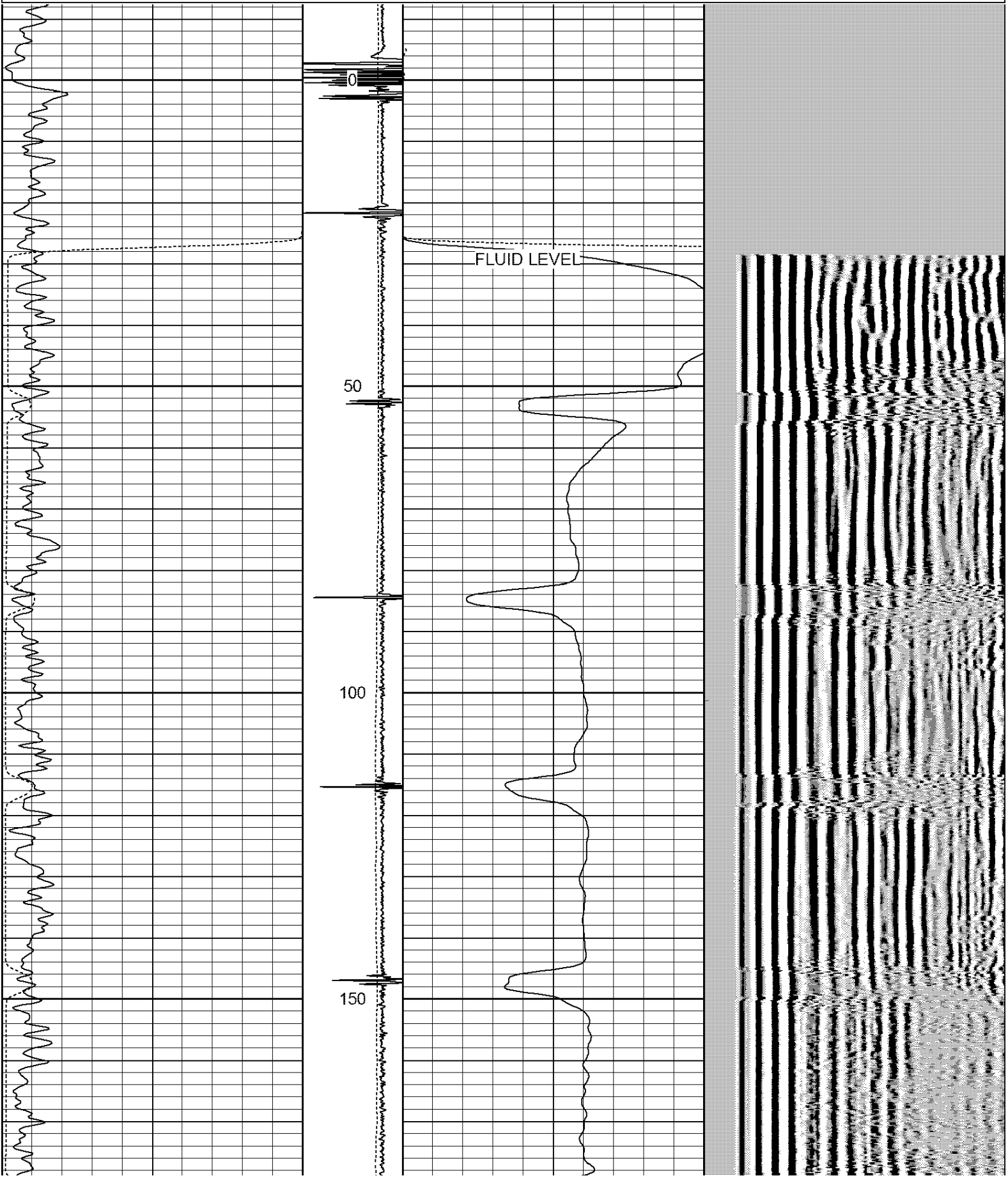
RAN CBL TO VERIFY CEMENT BOND

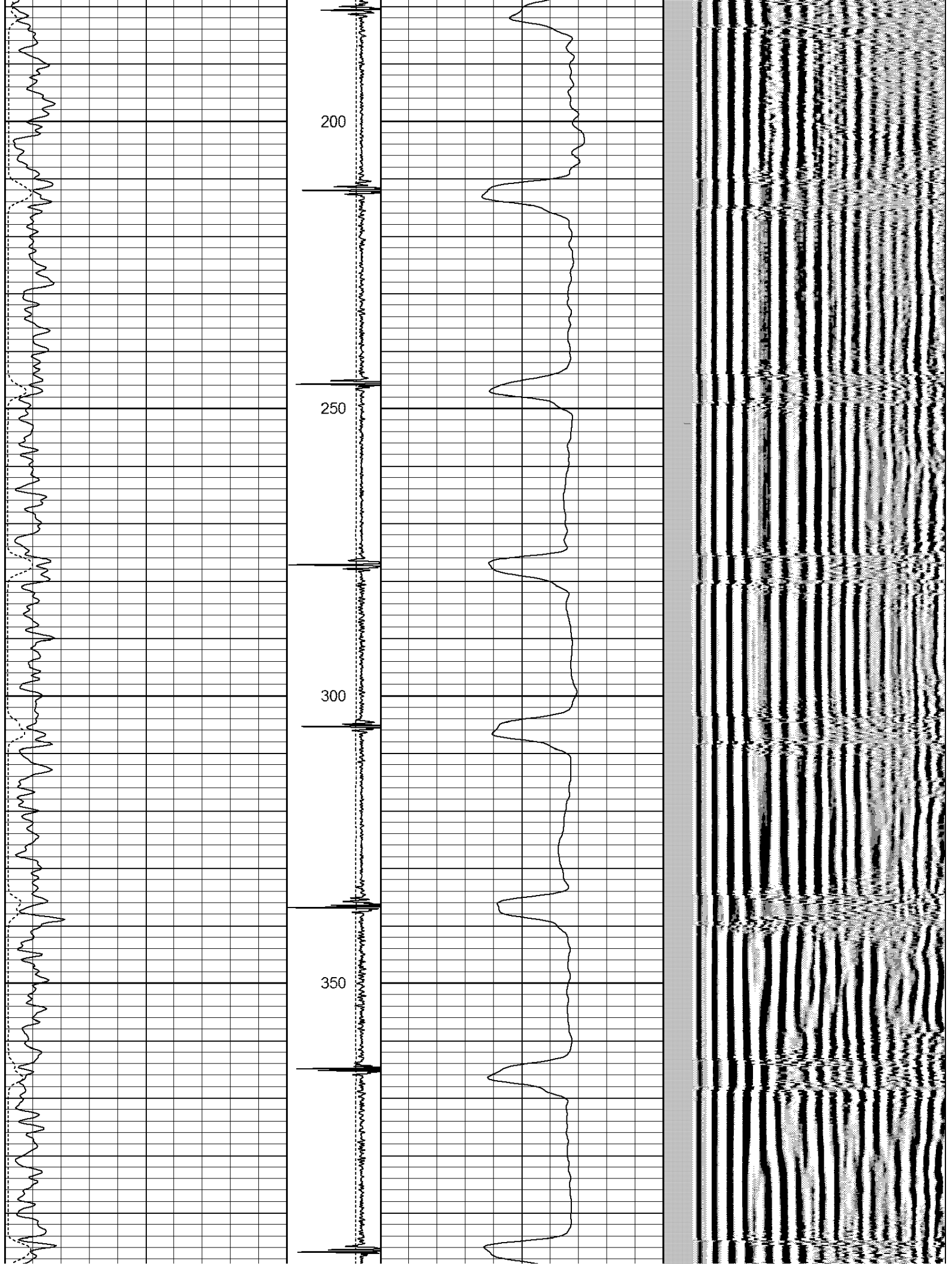
THANK YOU FOR USING WARRIOR !!!!!!!

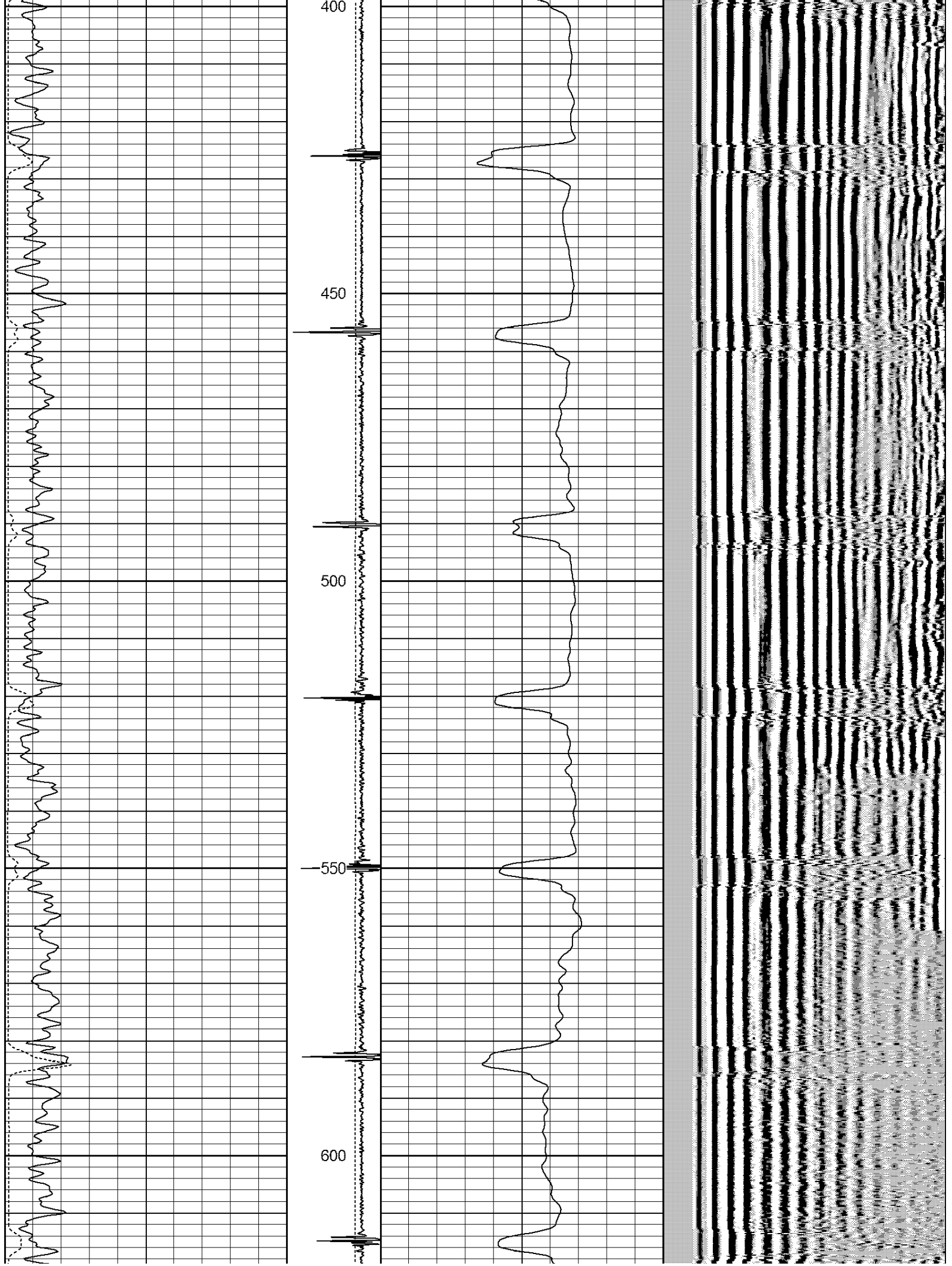
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			1_4	1.00	1.36	5.00

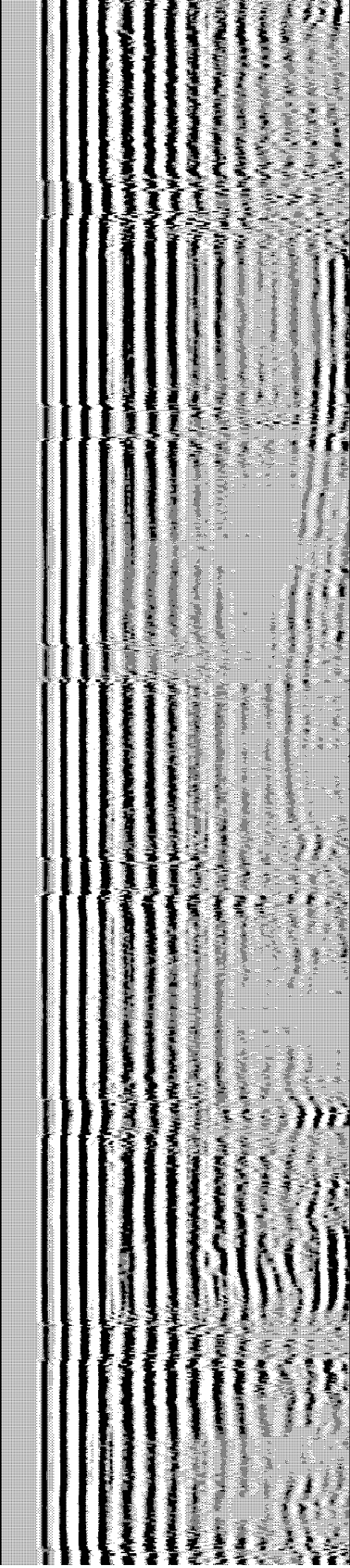
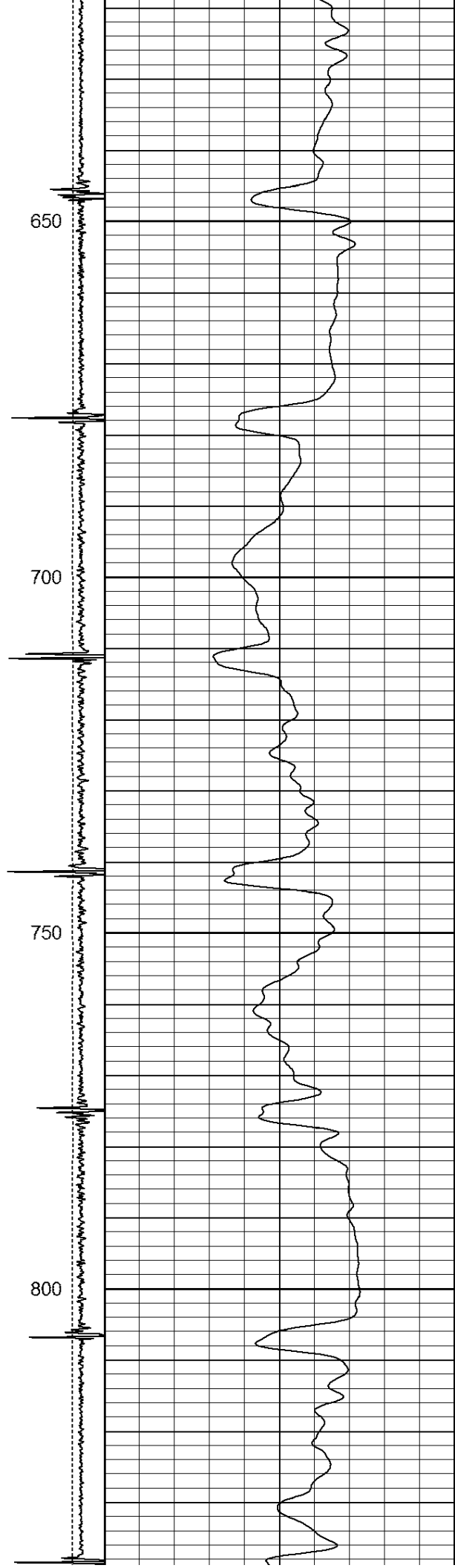
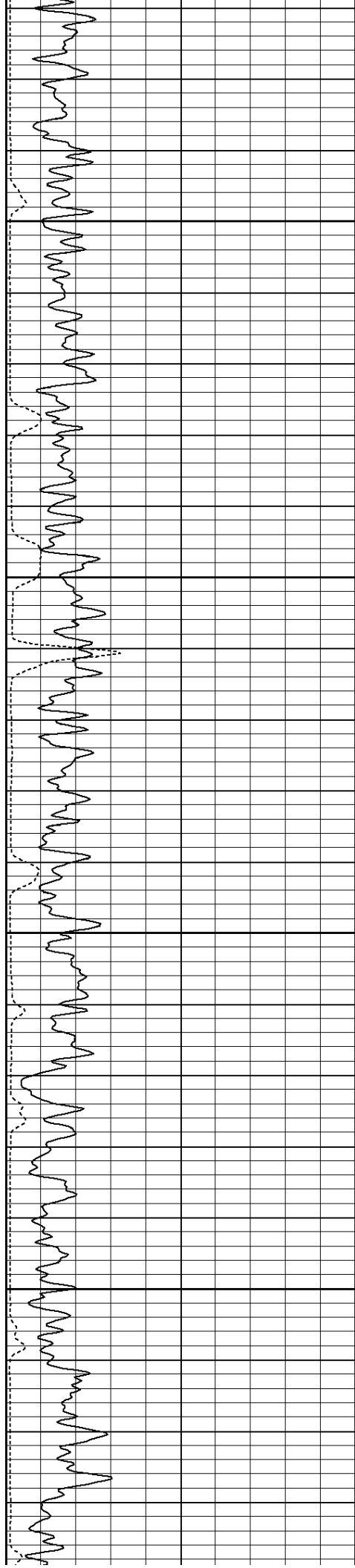
			1.69variable 1.69" Centrilizer Variable Length	2.17	1.69	15.00
WVF3FT	11.07		CBL102-Tekco102 (102-001)	9.51	1.69	50.00
WVF5FT	10.07					
WVFSYNC	6.74		1.69variable 1.69" Centrilizer Variable Length	1.66	1.69	15.00
CCL	4.17		CCL-sb1 (10000)	1.67	1.63	5.00
GR	2.67		GR-comp1a (10000)	3.42	1.75	20.00
Dataset: state I 16-16.db: field/well/run1/pass18 Total Length: 19.42 ft Total Weight: 110.00 lb O.D. 1.75 in						

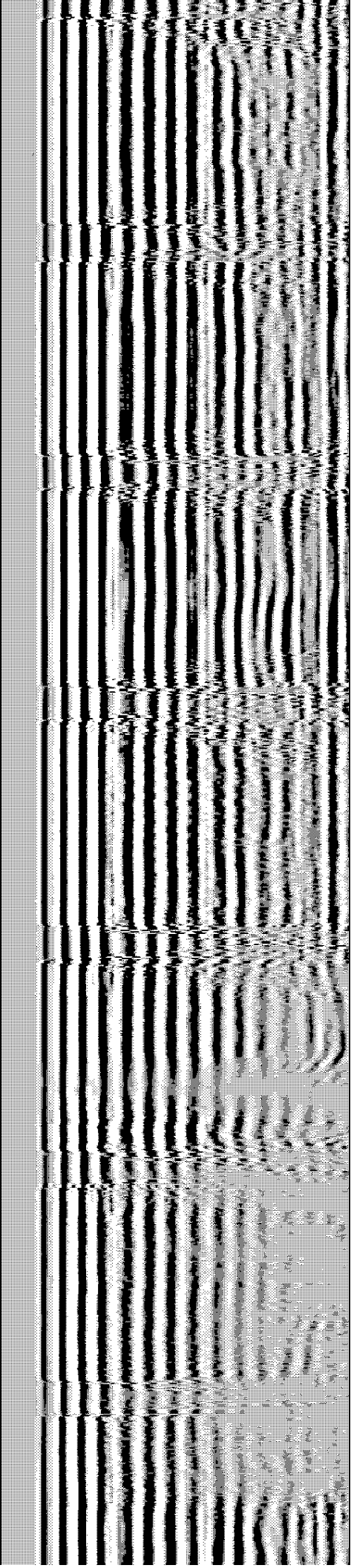
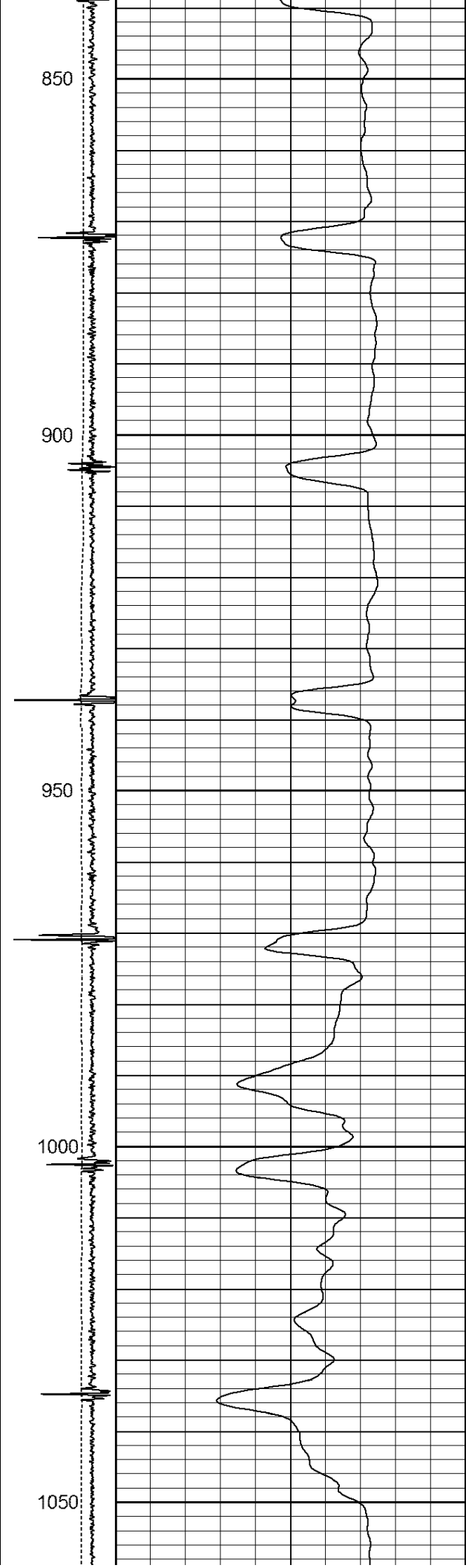
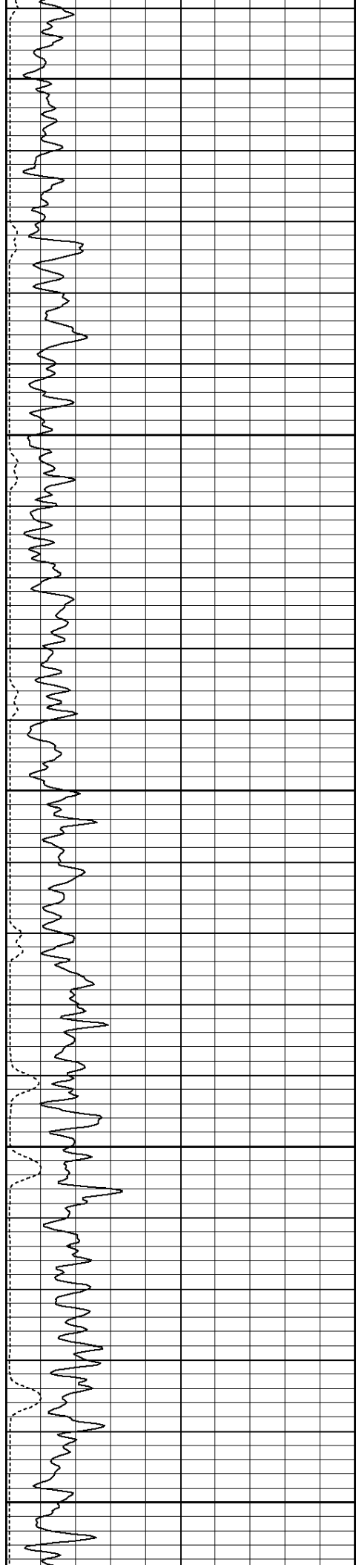
200	TT (usec)	800	-4	CCL	1	0	AMP (mV)	100	200	VDL	1200
0	GR (cps)	200	LSPD (ft/min)			0	AMPx5 (mV)	20			
200	GR (cps)	400									
			0		150						



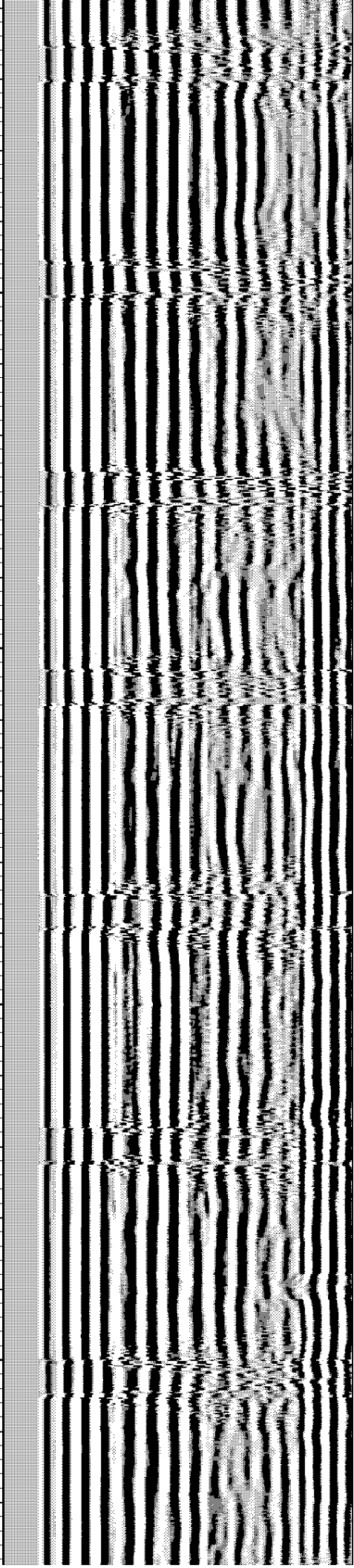
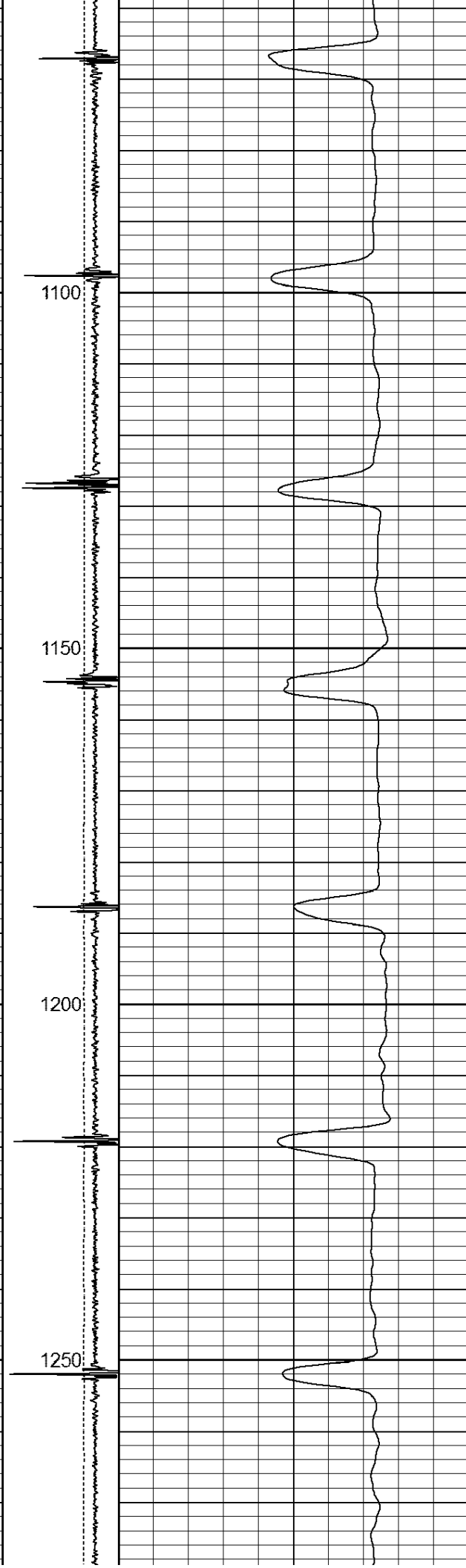
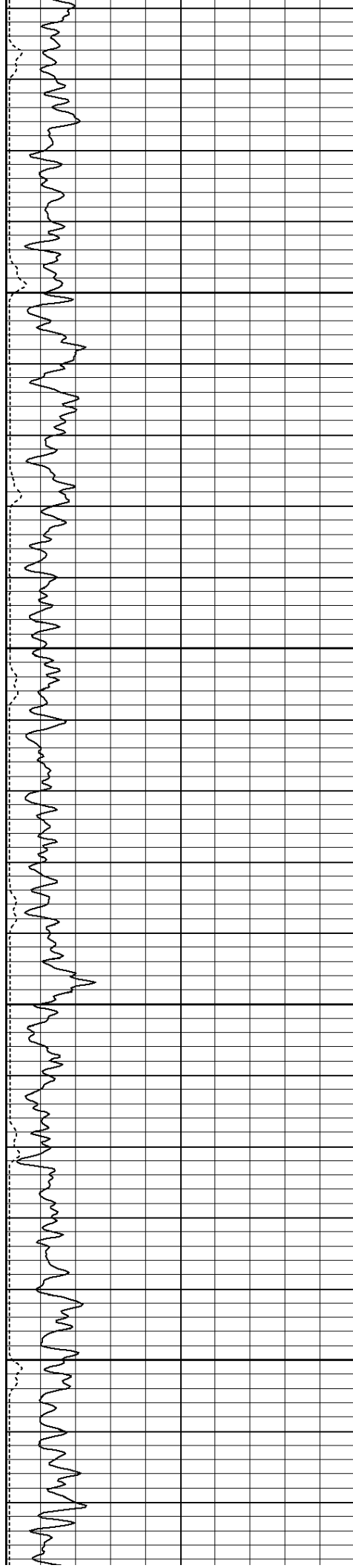




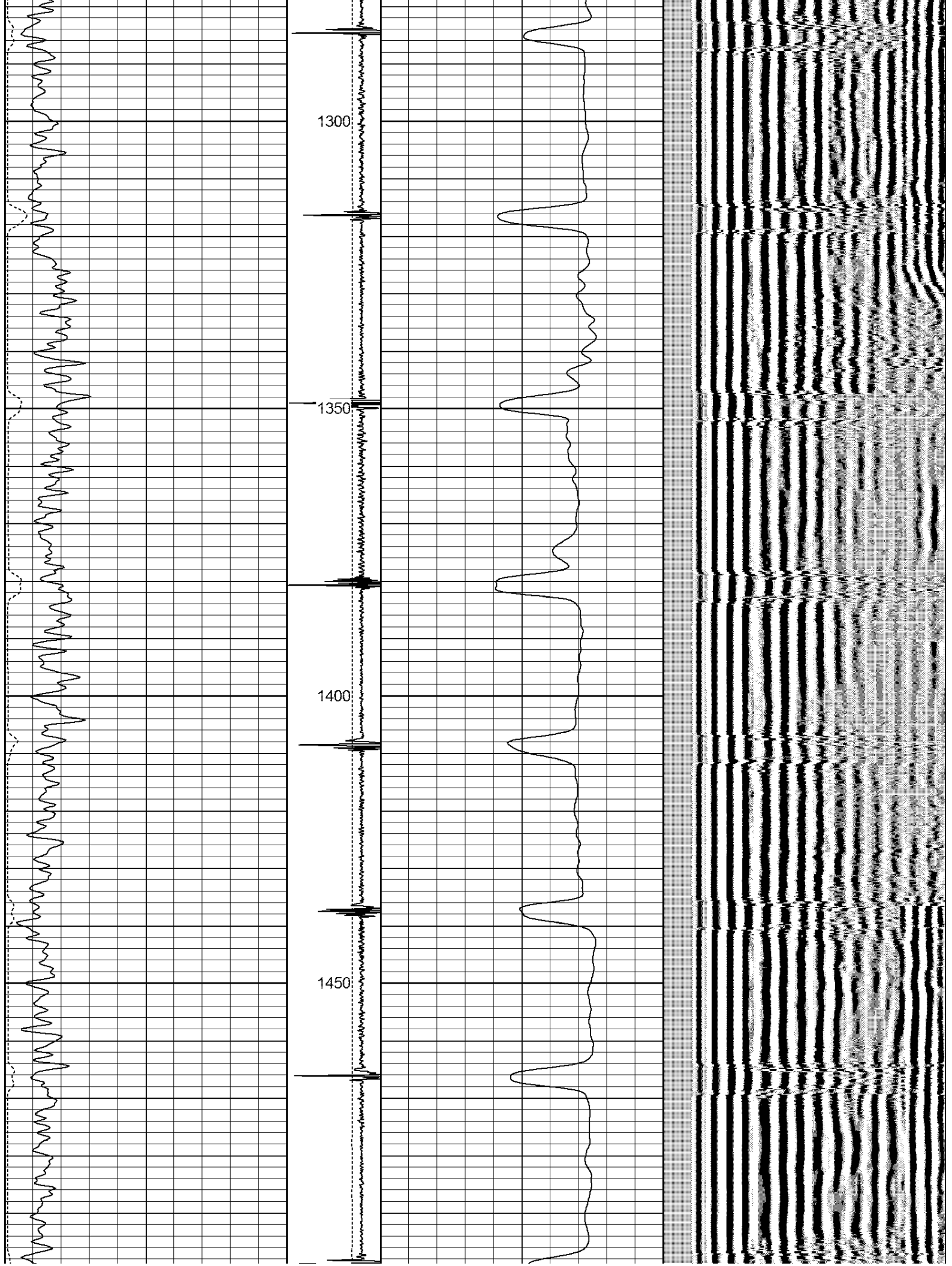


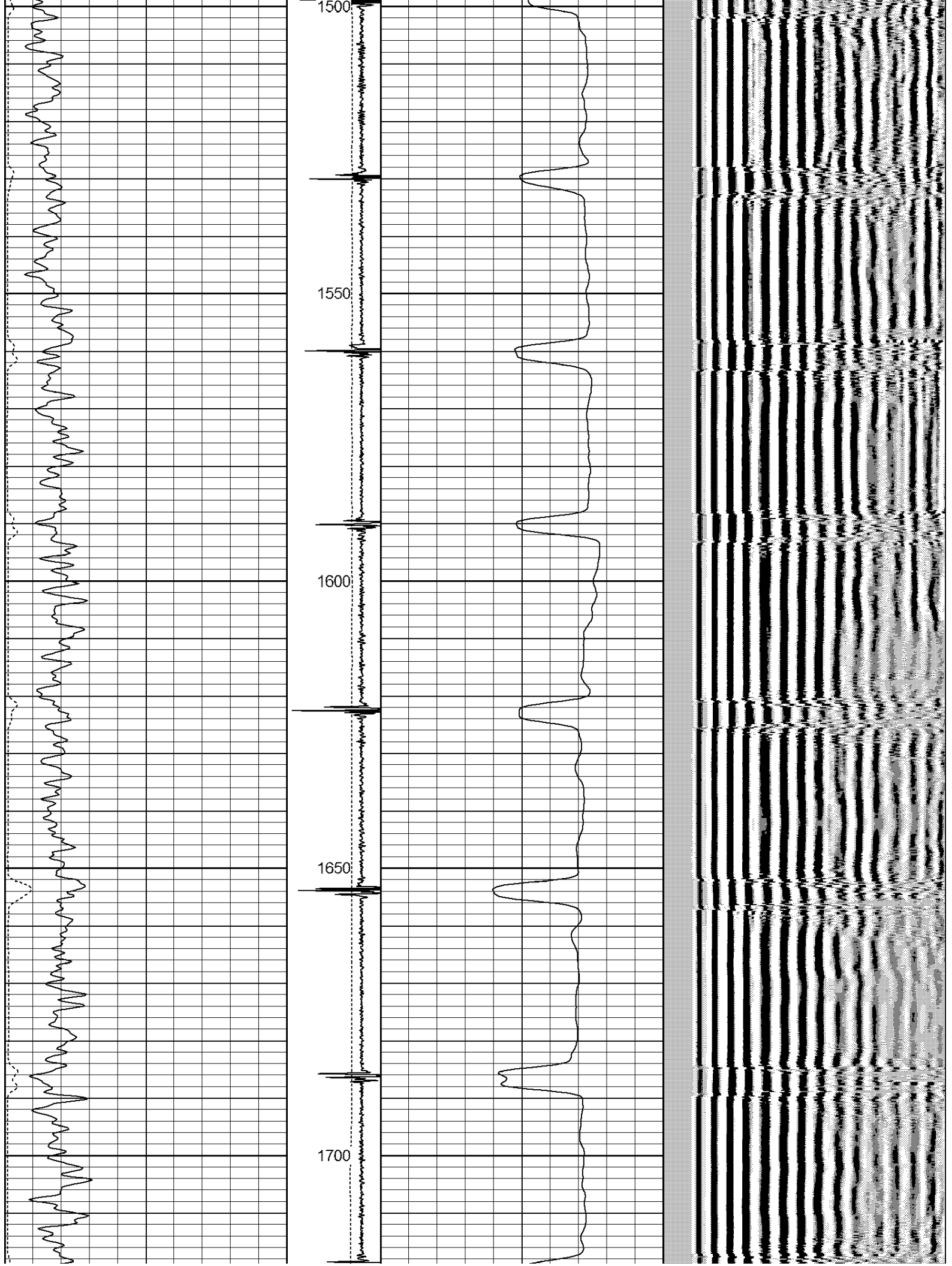


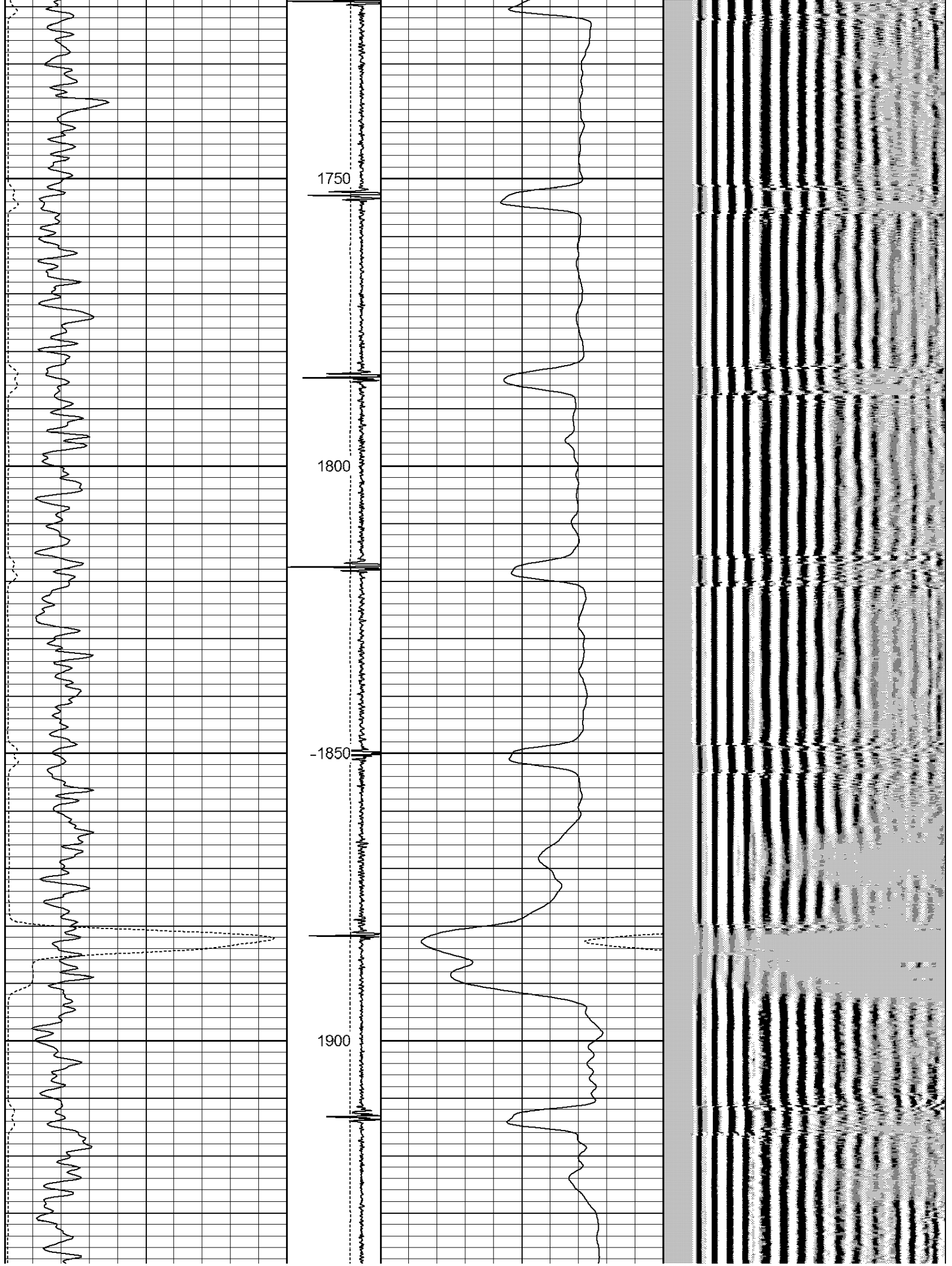


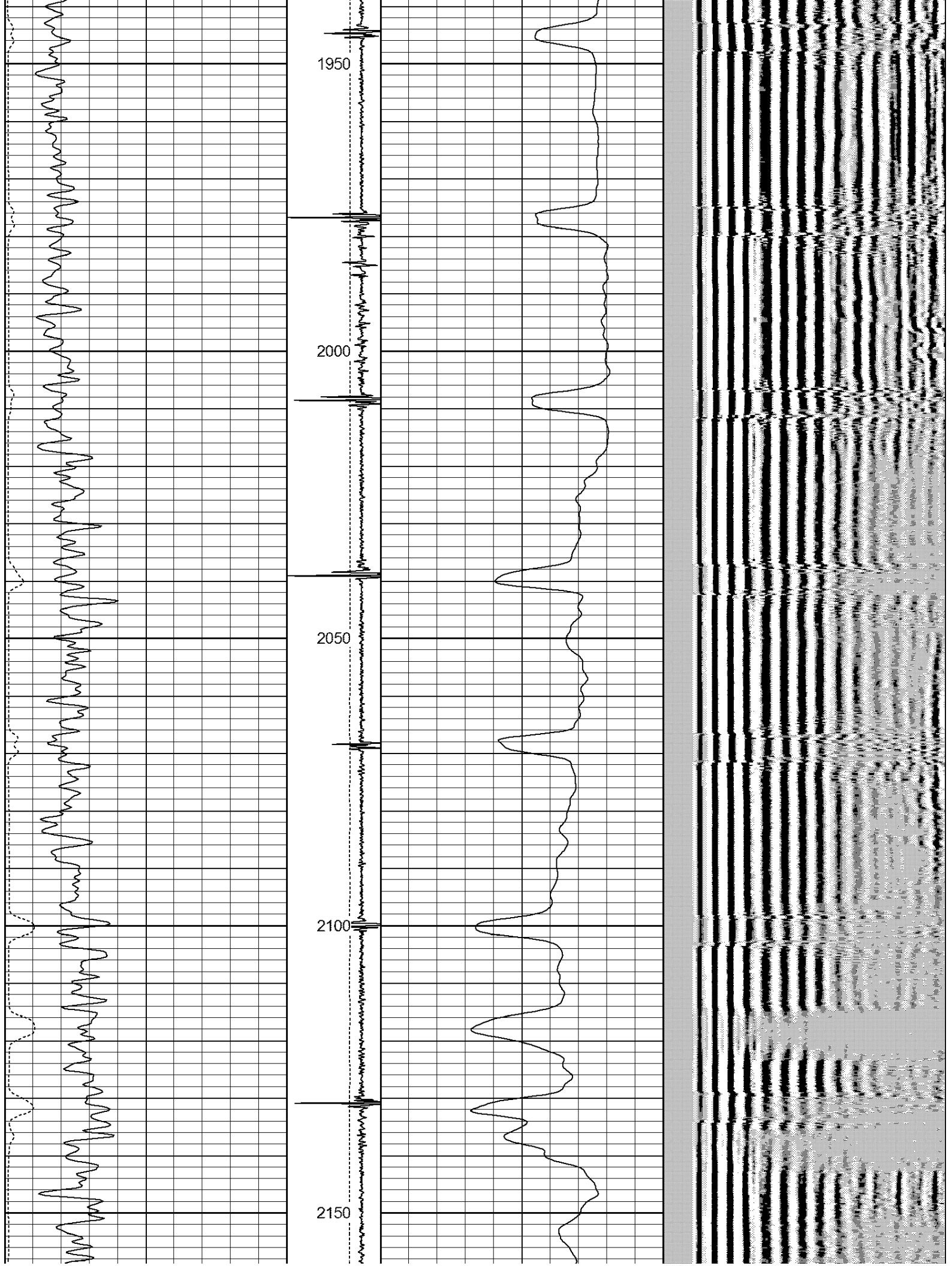


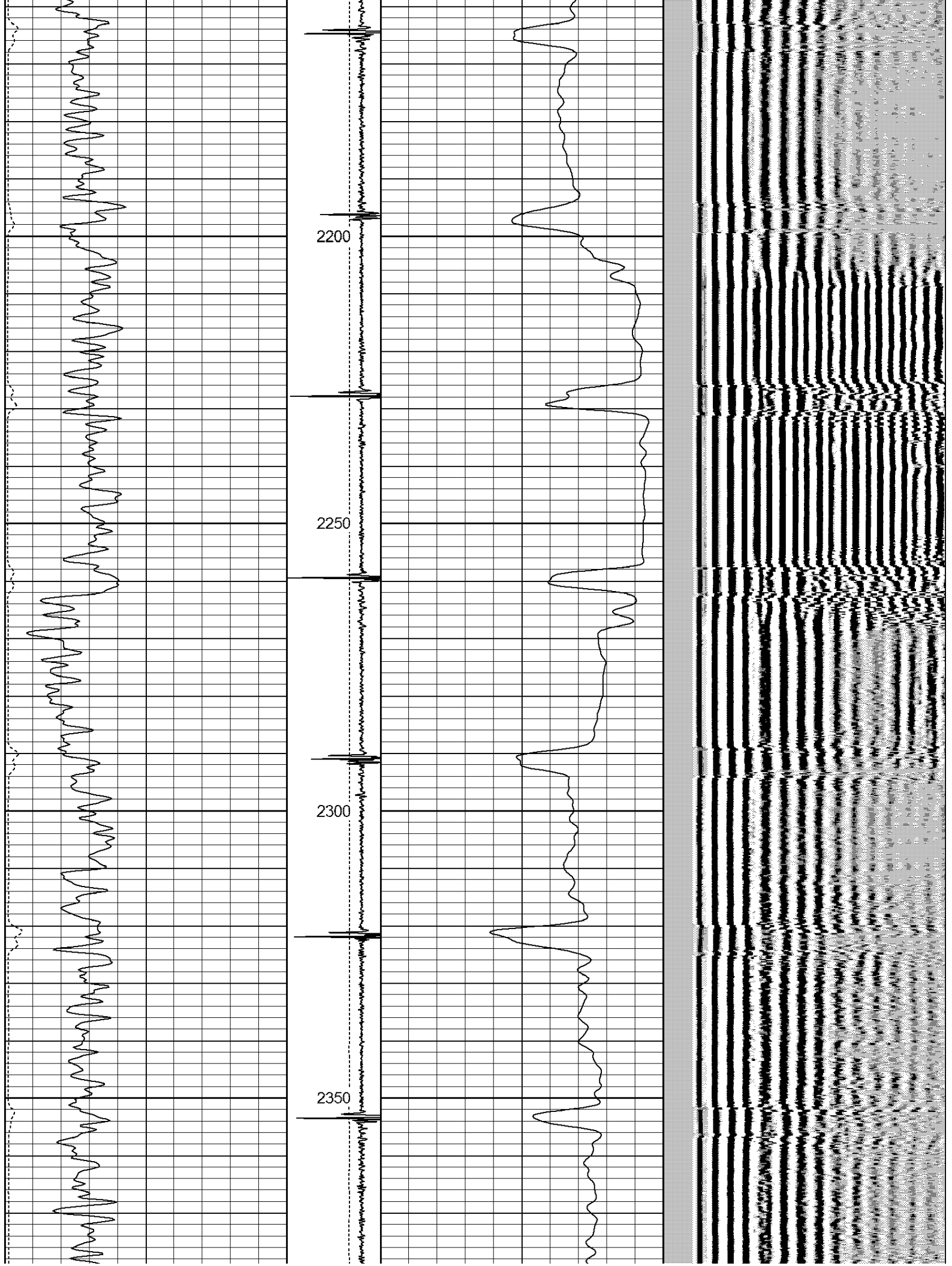




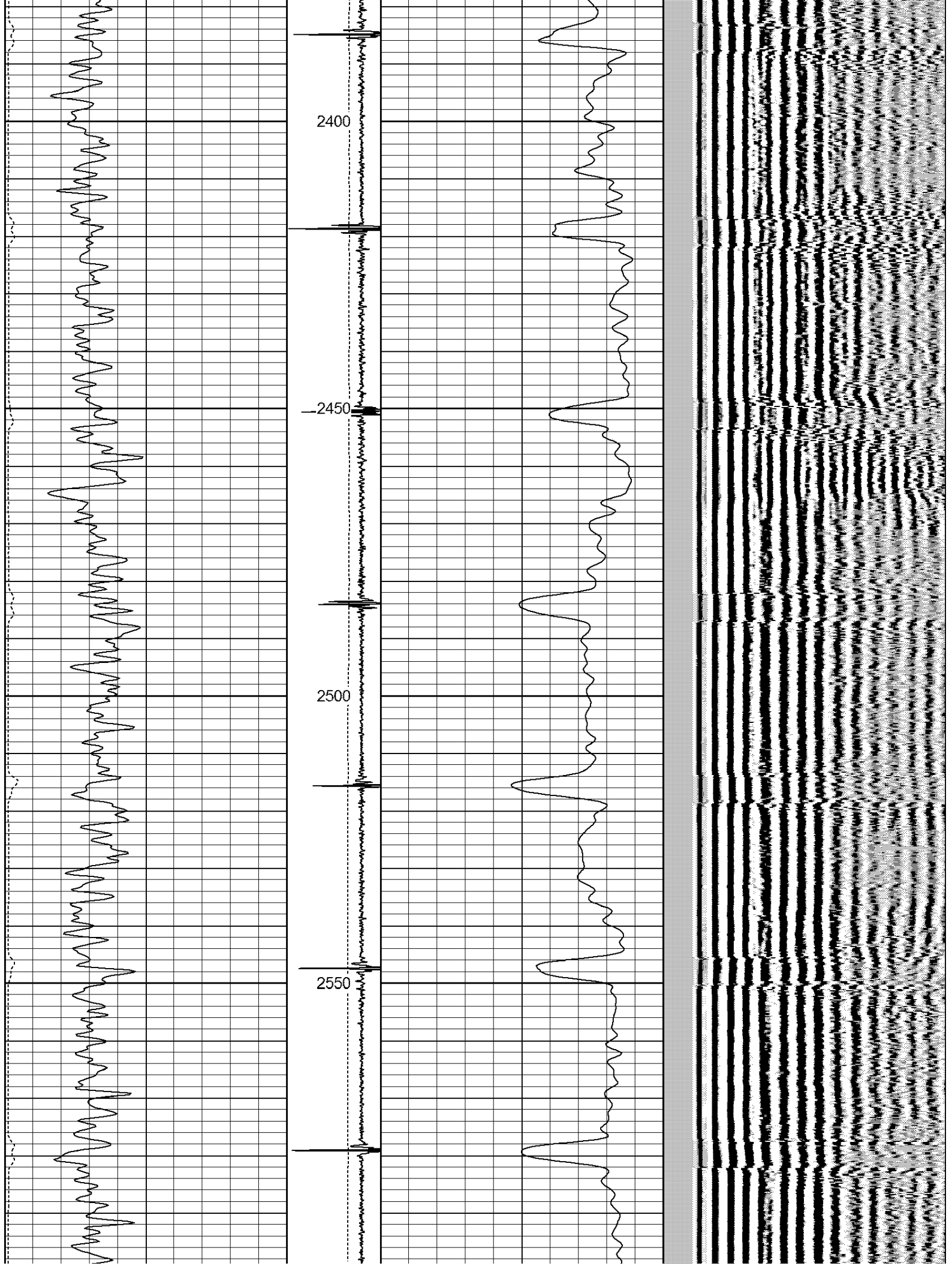


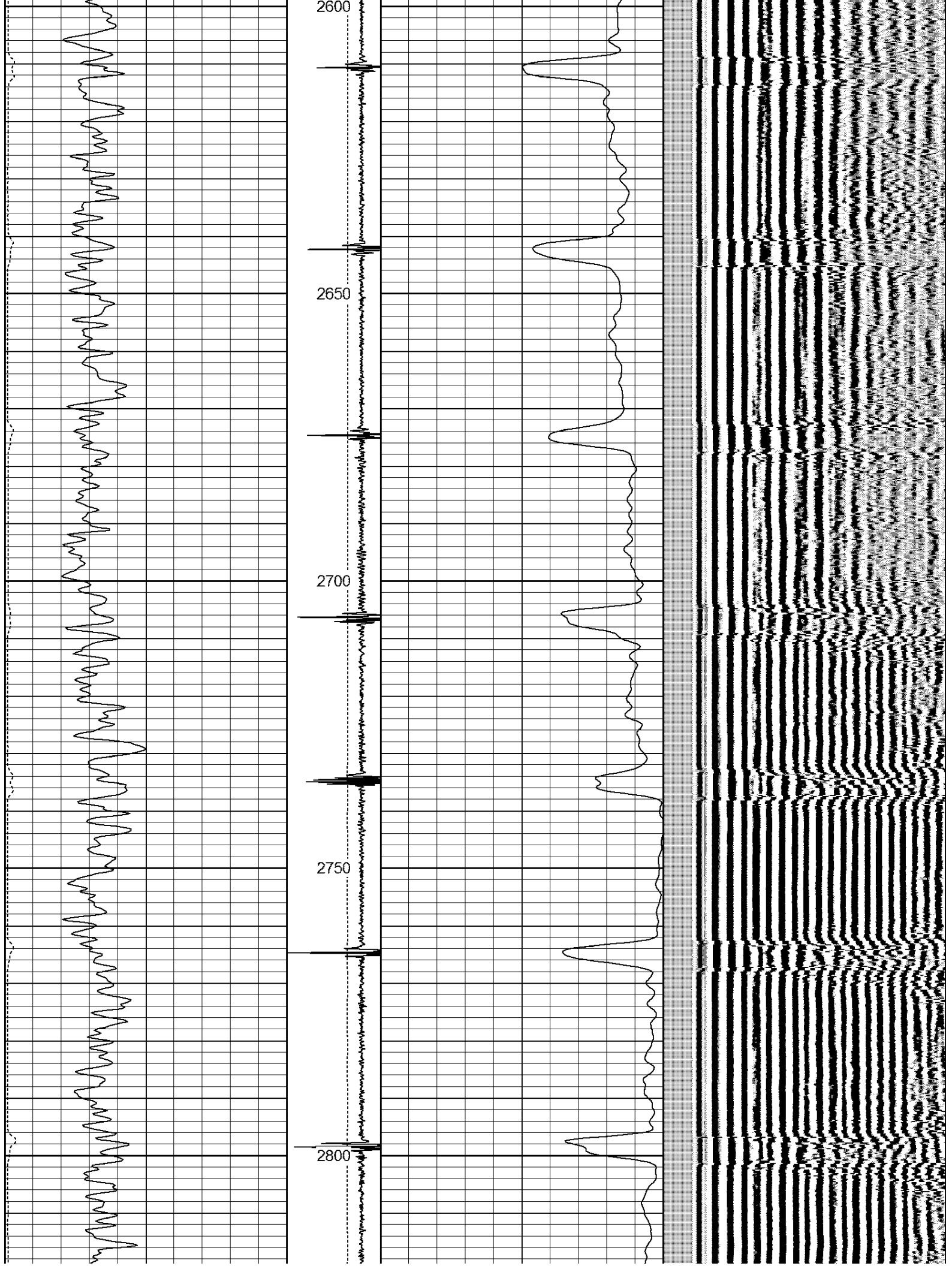




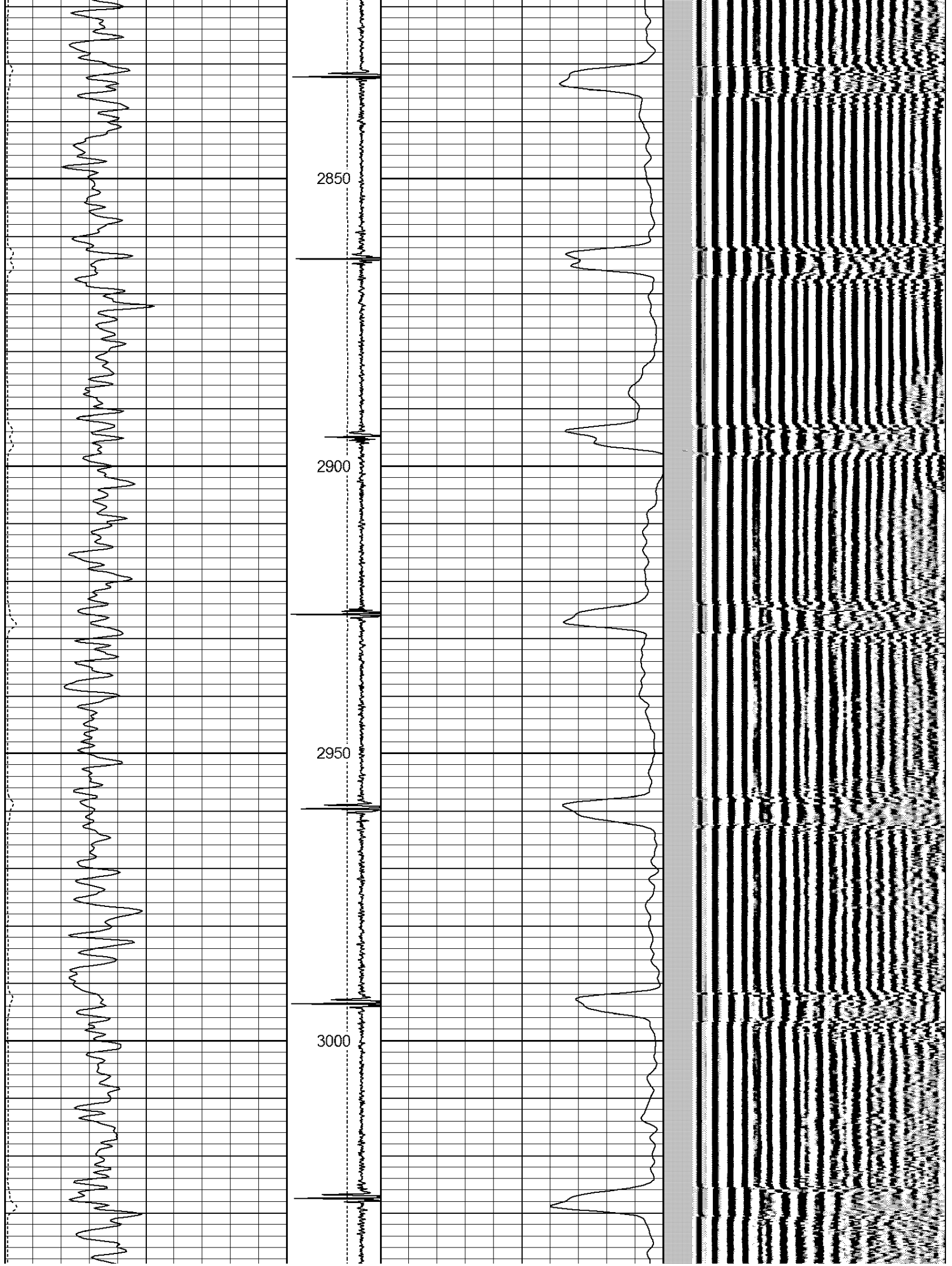


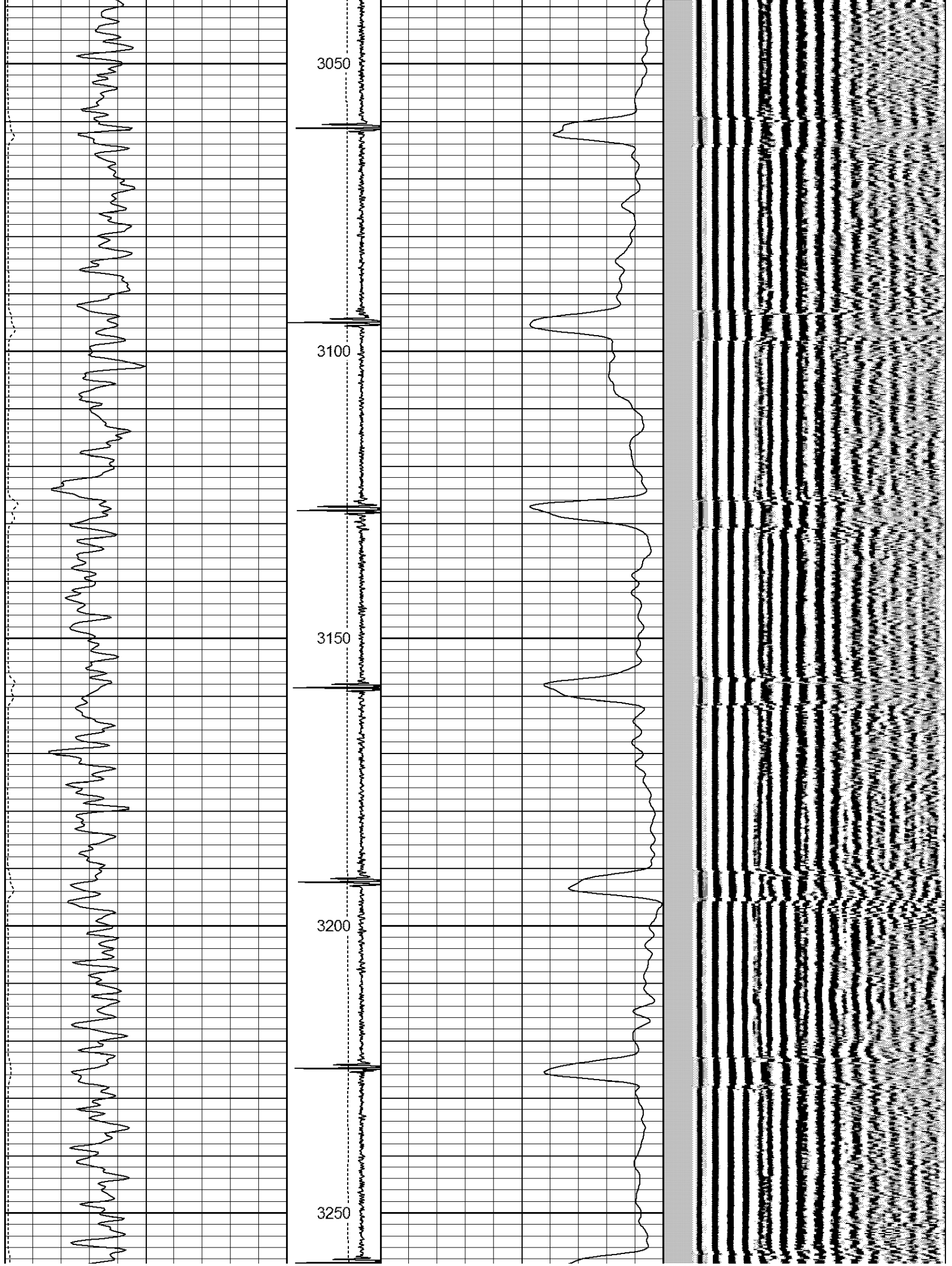


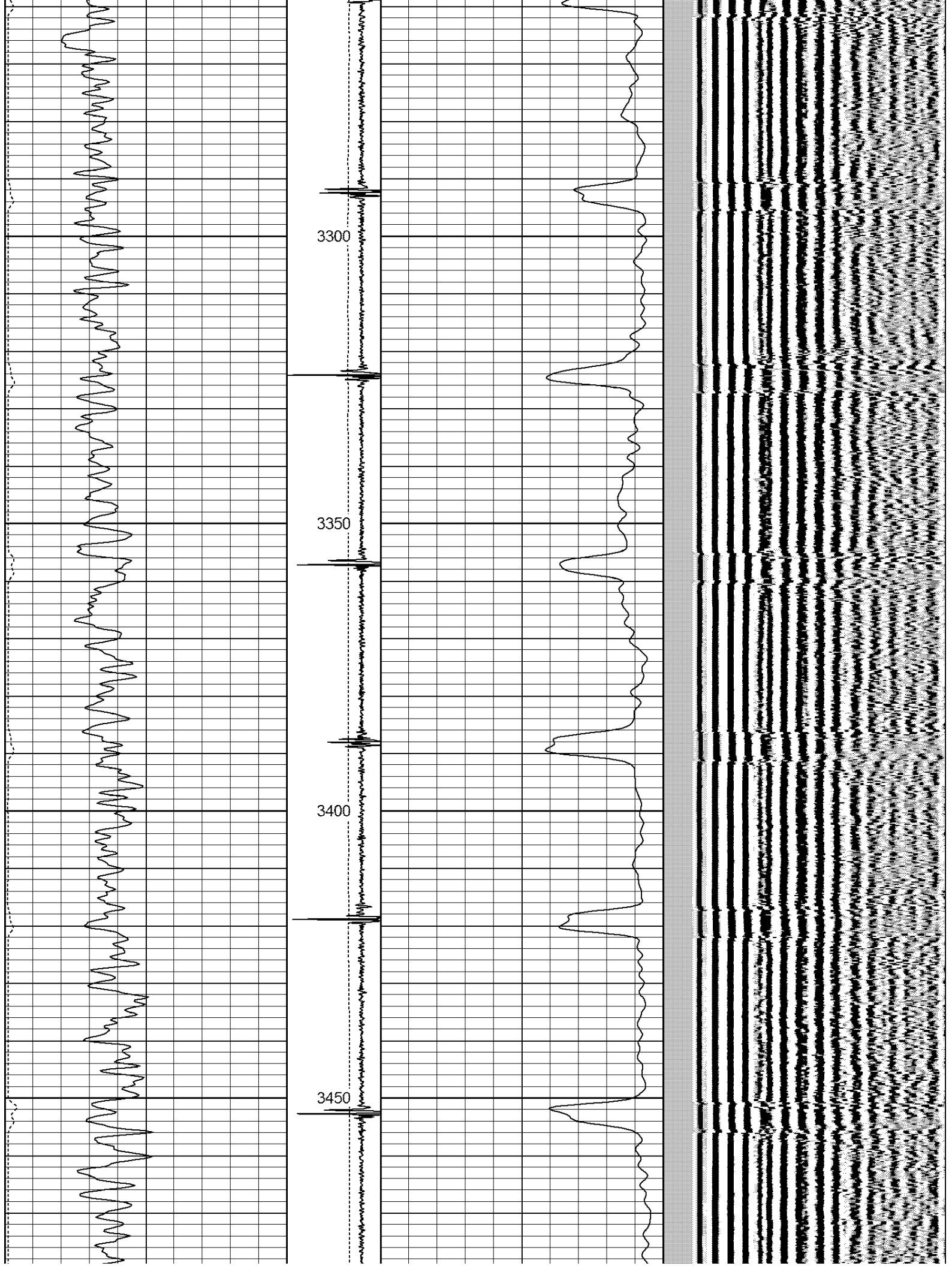


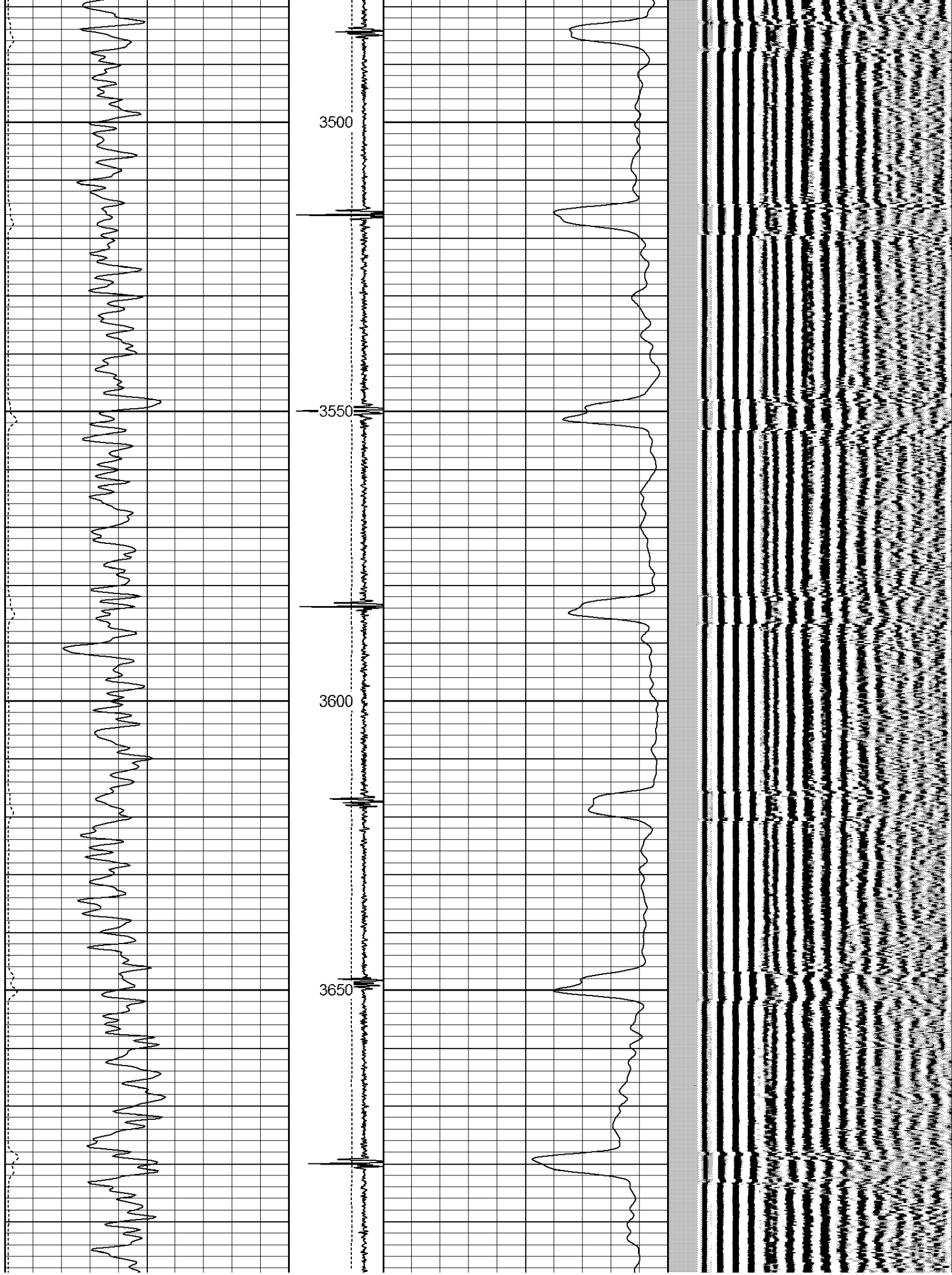


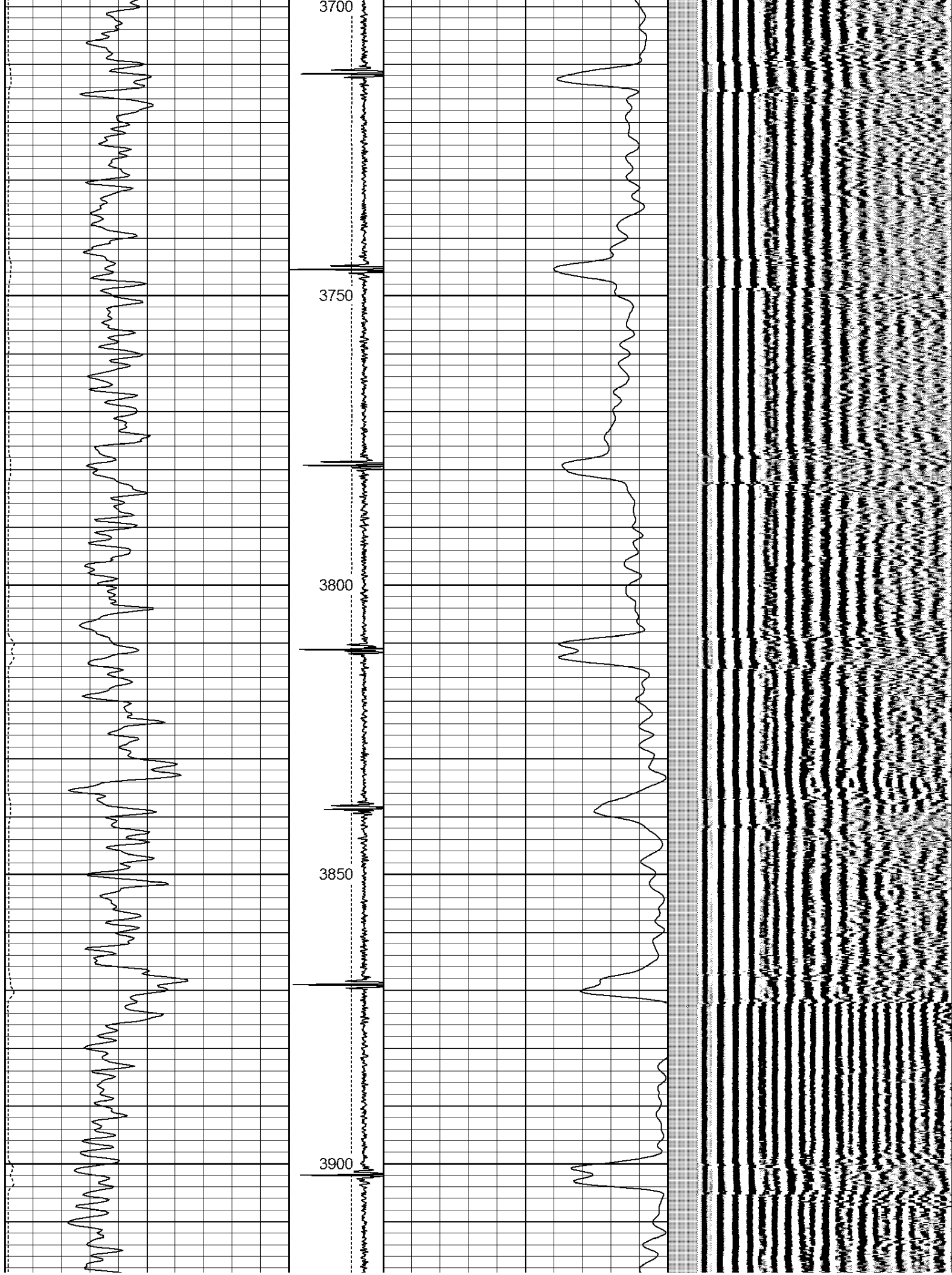


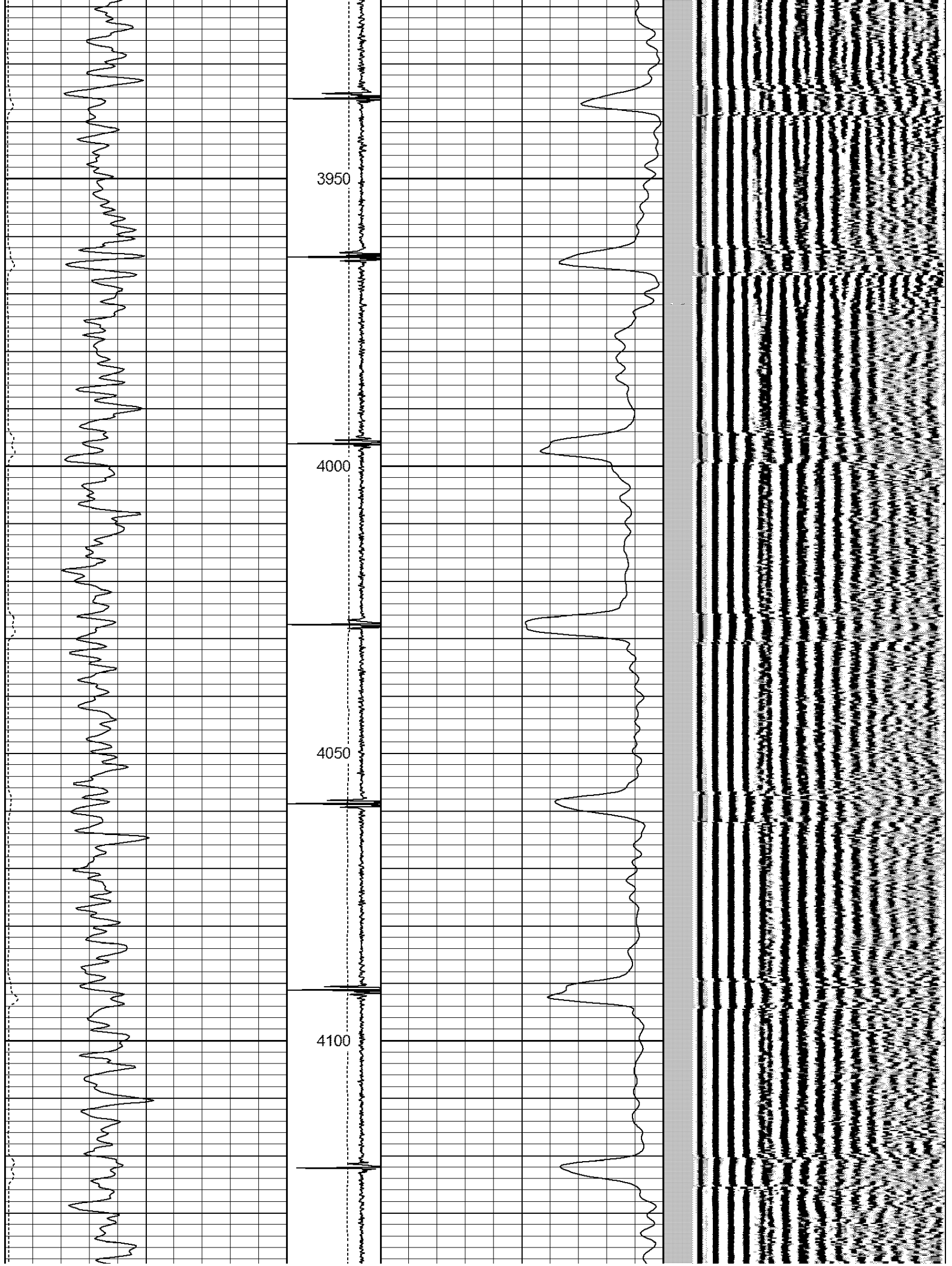




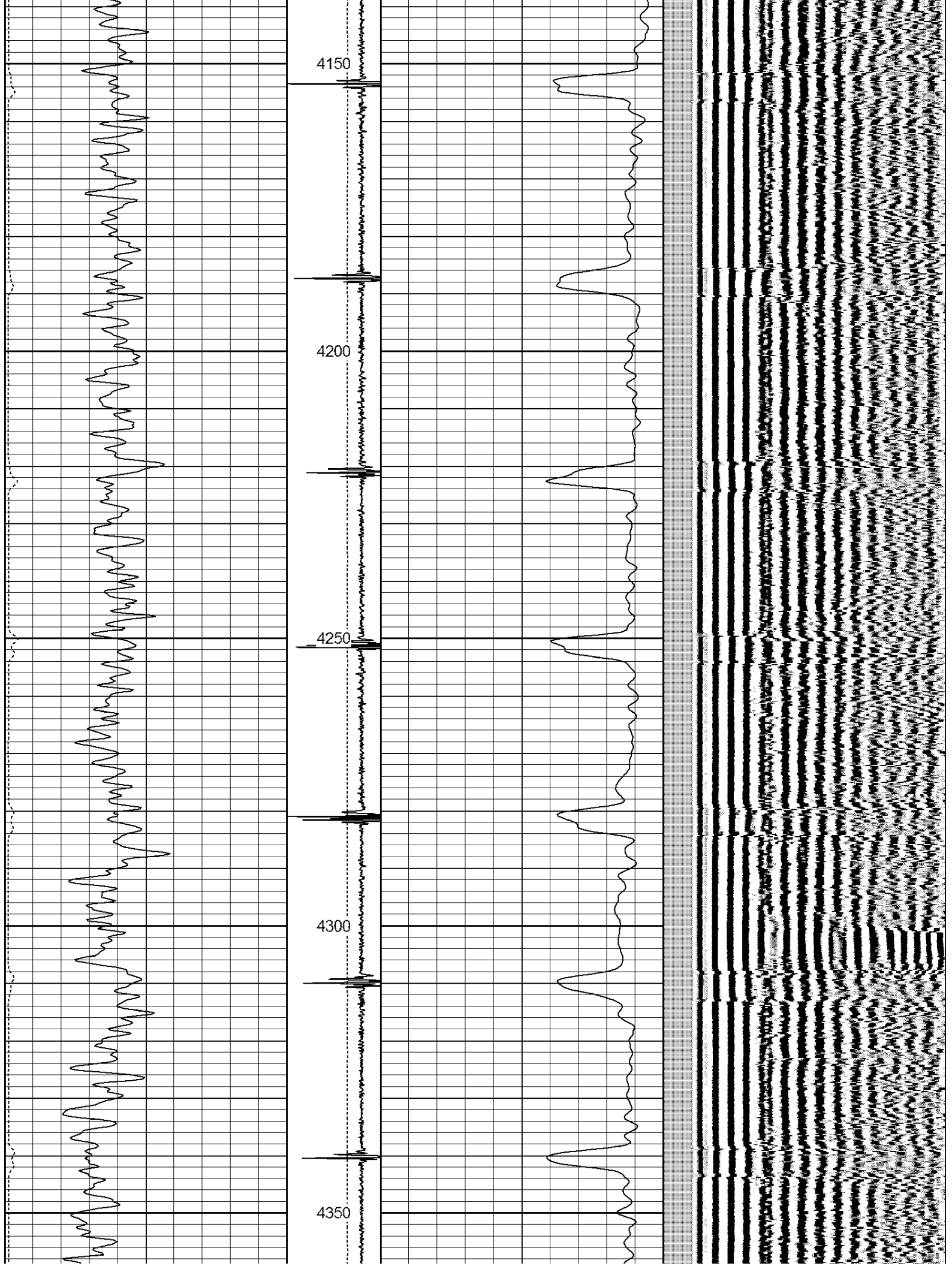




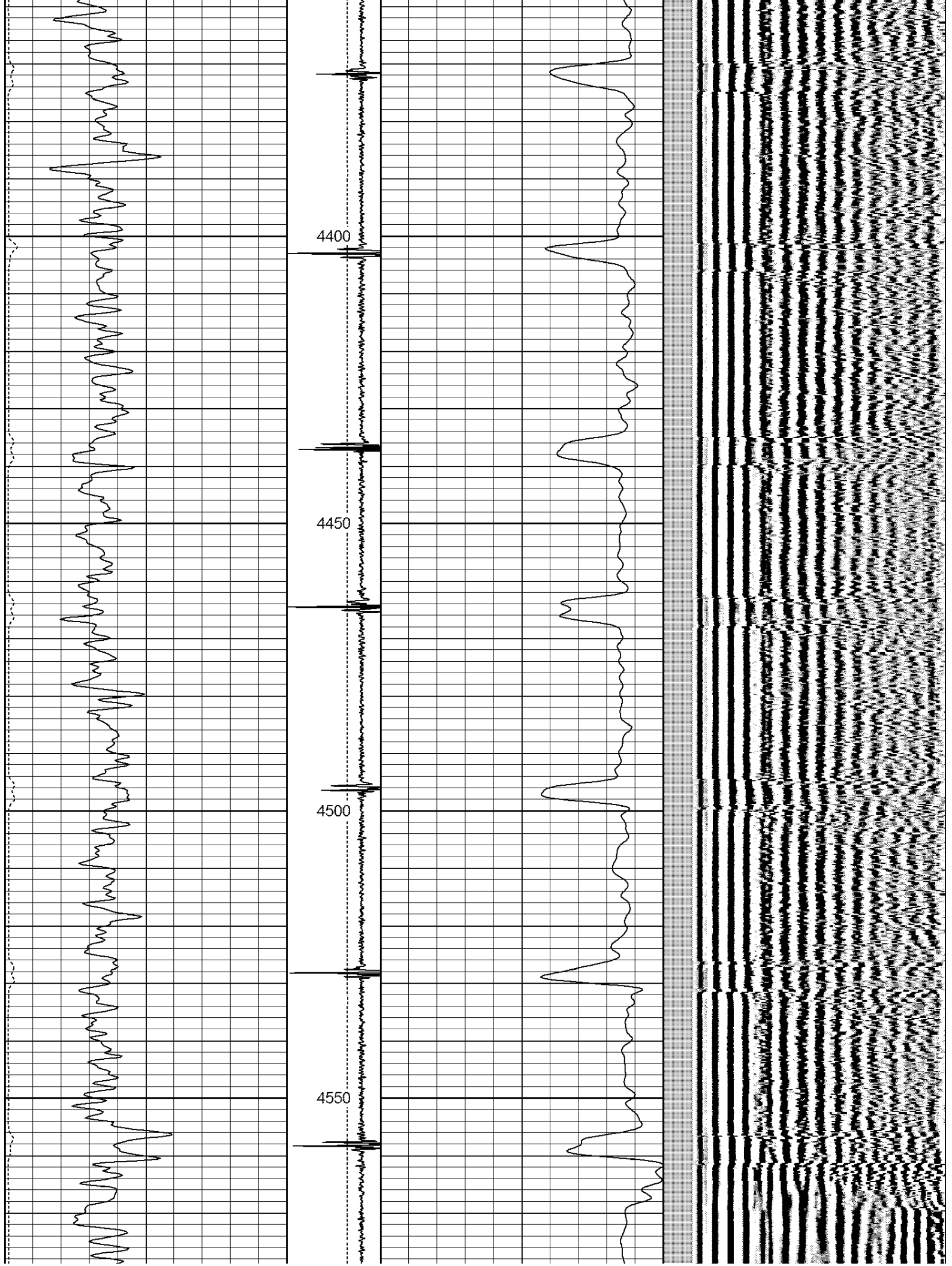


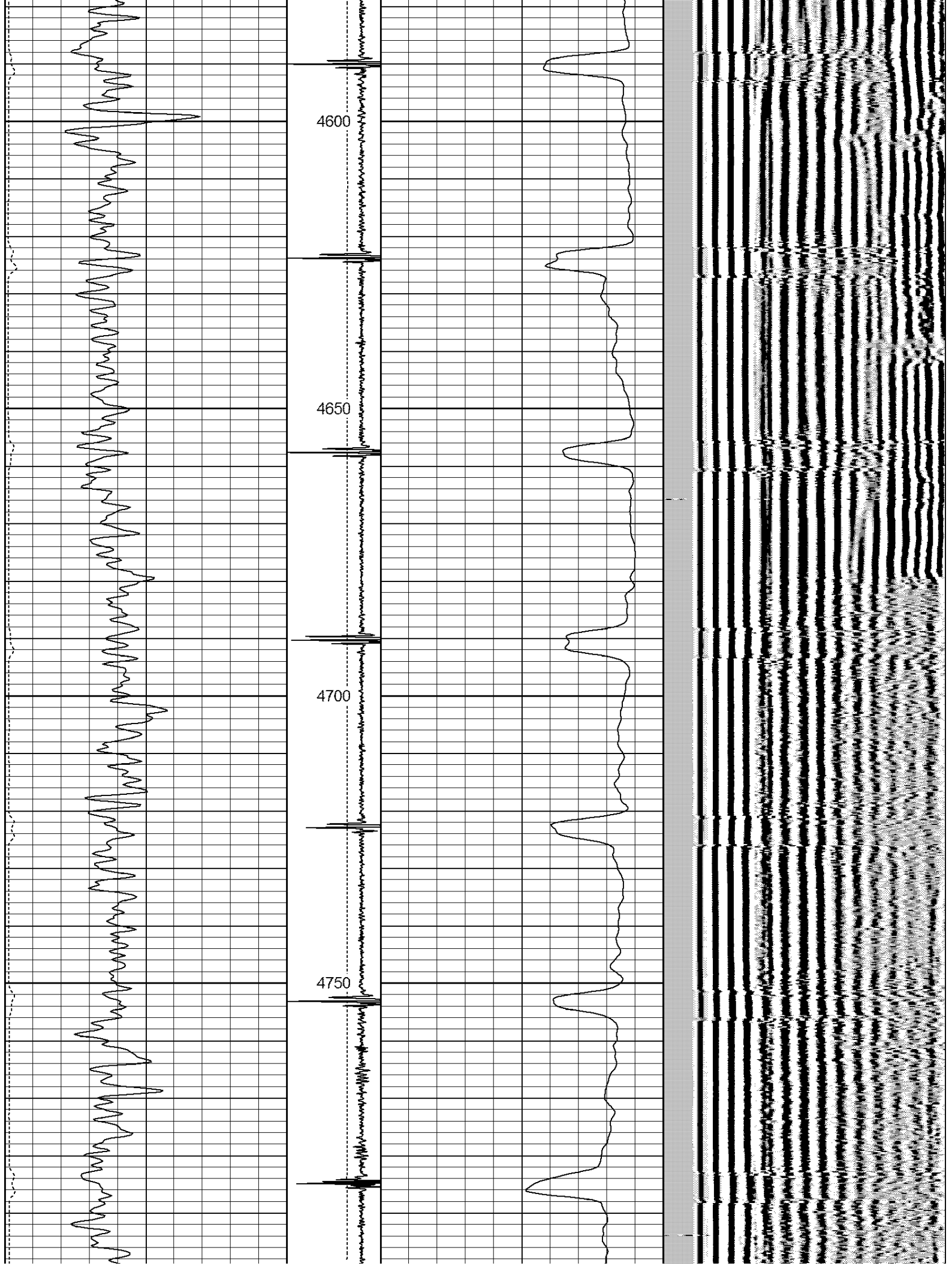


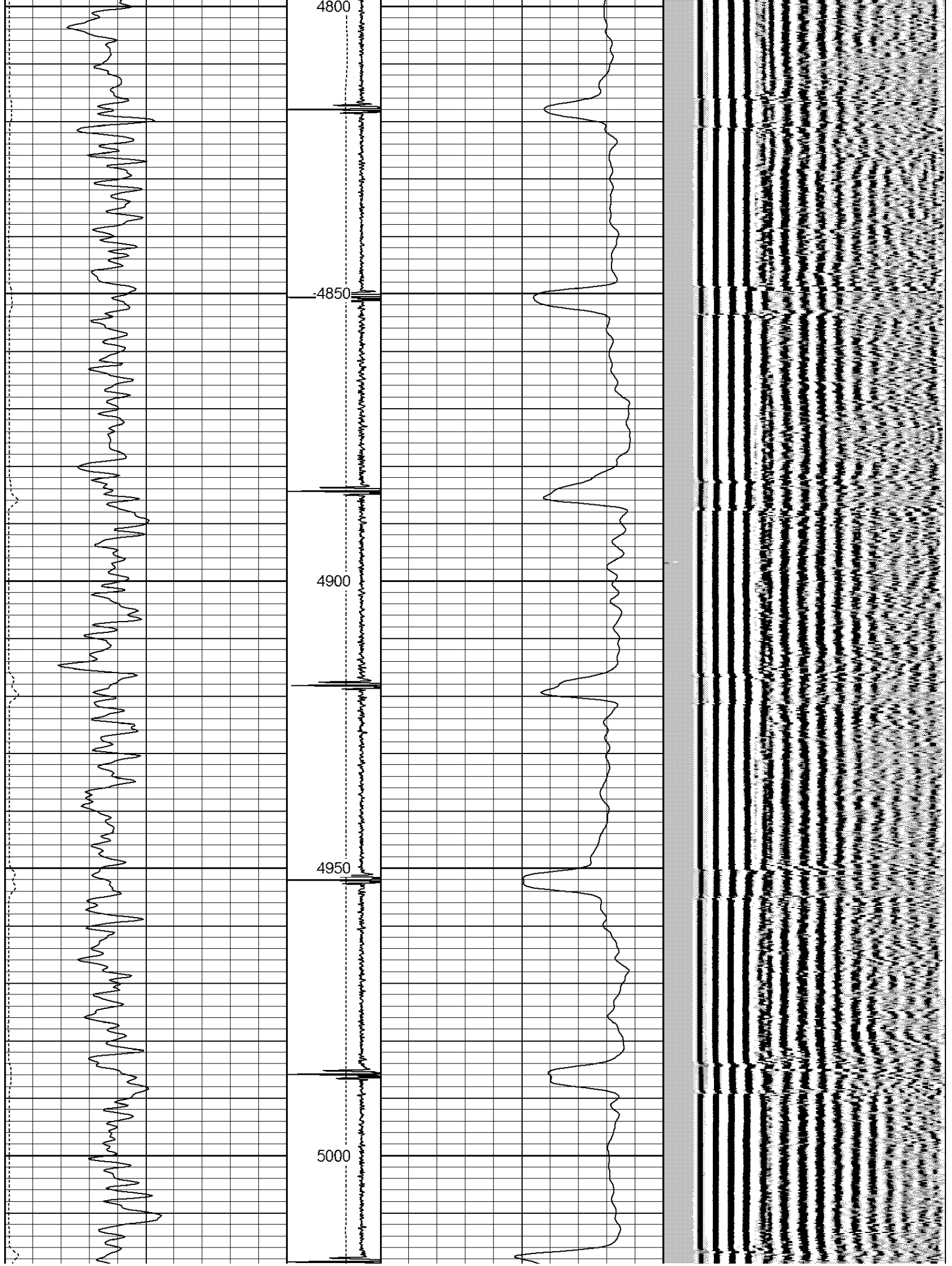


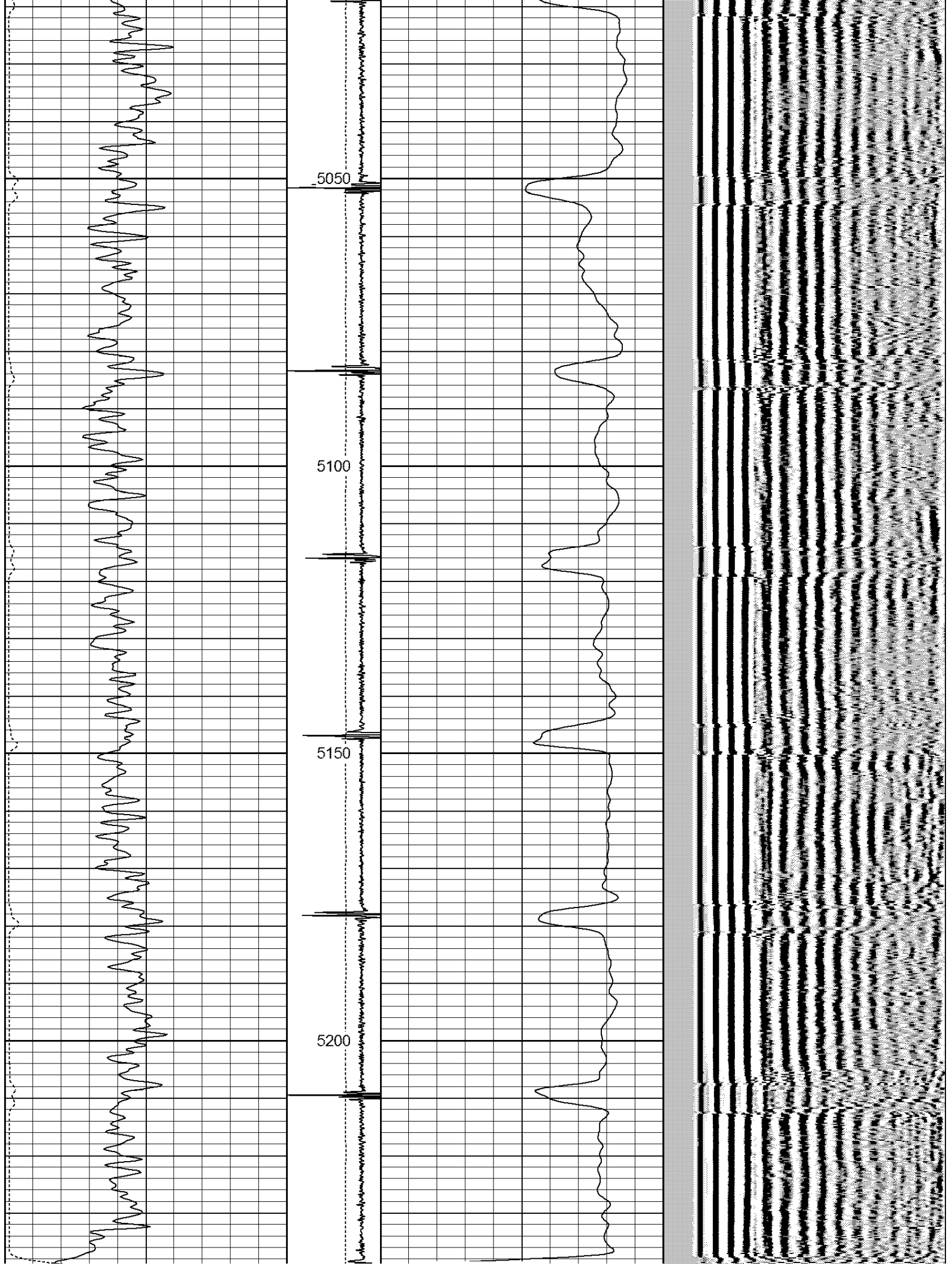


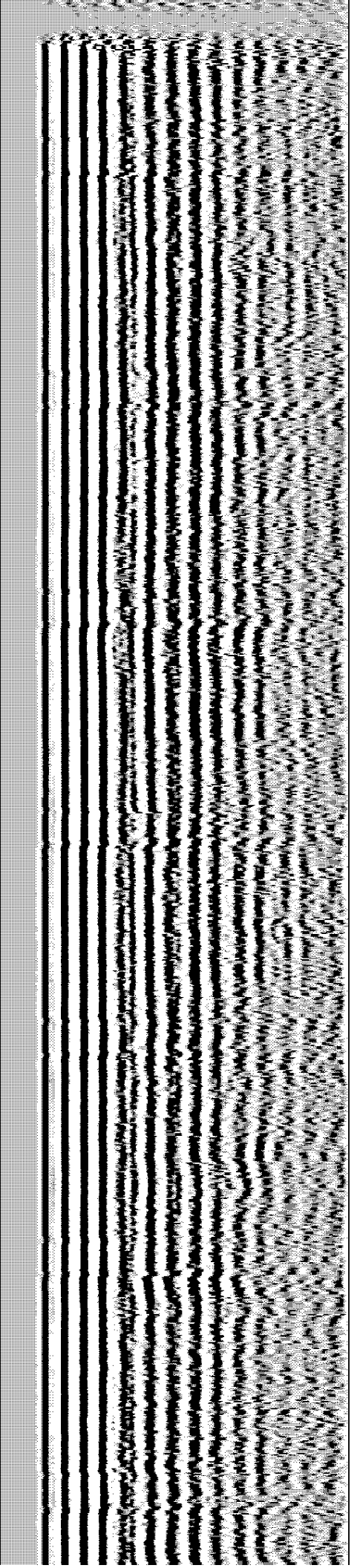
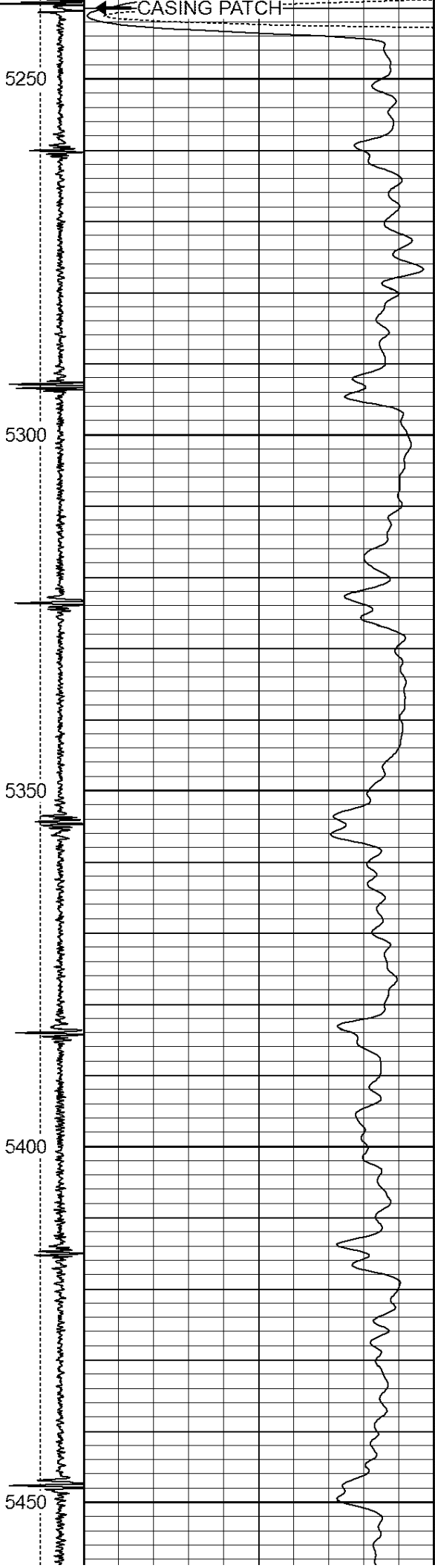
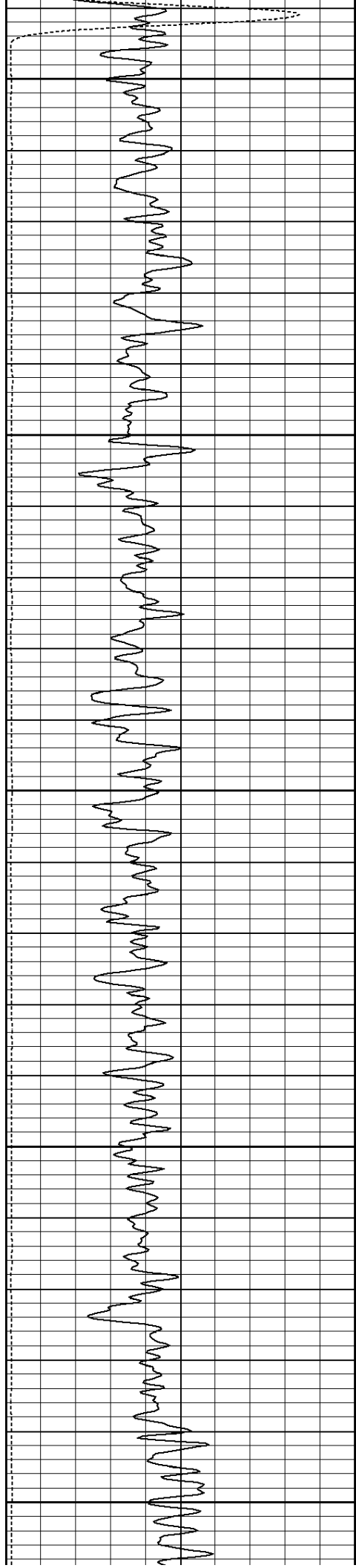


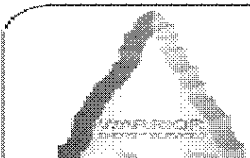
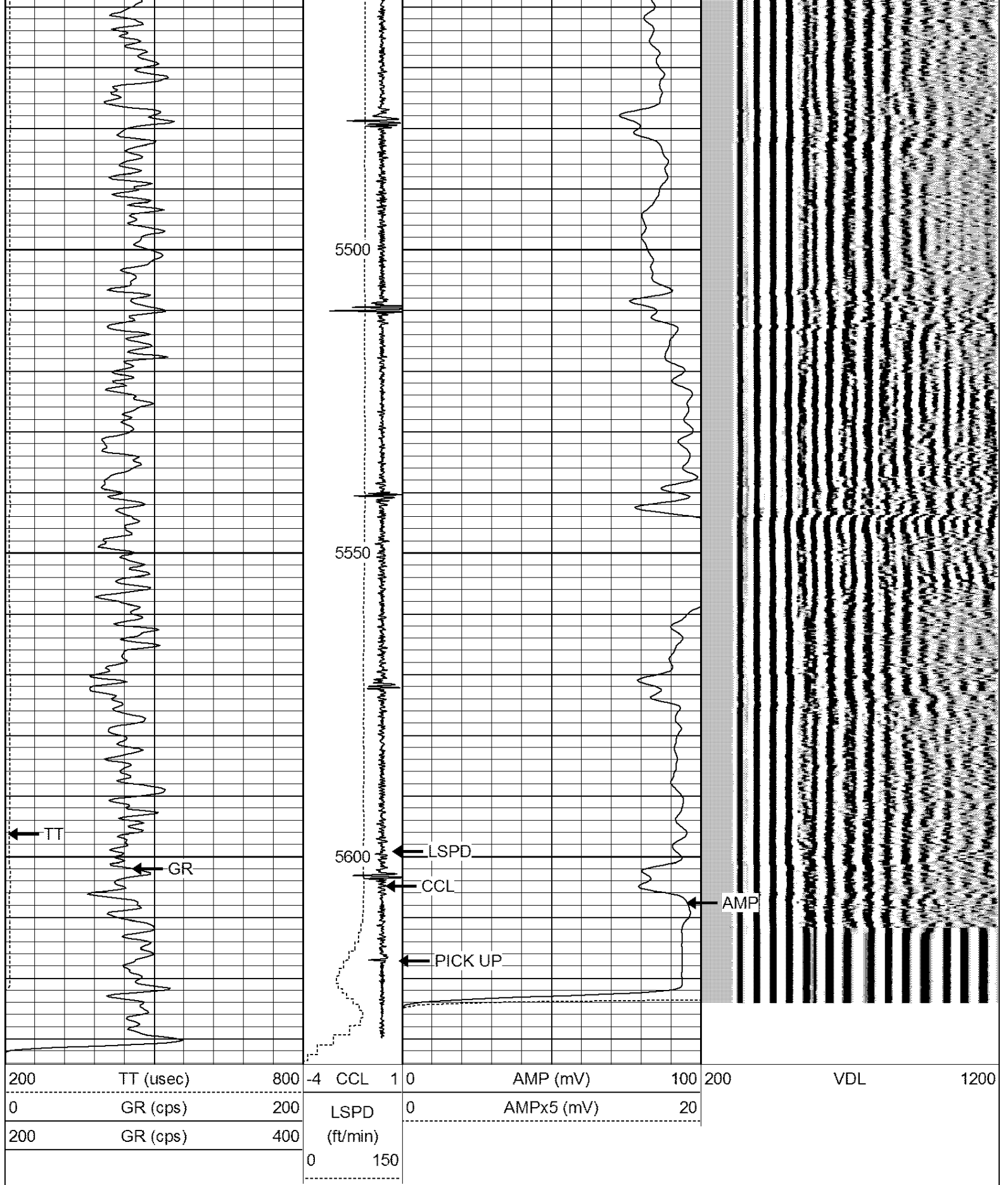










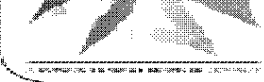


**WARRIOR**  
ENERGY SERVICES

Company KERR McGEE OIL AND GAS

Well STATE L 16-16

Field WATTENBERG



County WELD  
State CO