



GAMMA RAY / CCL
ACUSTIC CEMENT
BOND LOG

Company		BISON EXPLORATION		Country USA	
Well		CAVANAUGH 1-X		Well	
Field		P&A		Field	
County		ARAPAHOE		County	
State		COLORADO		State	
Location:		SEC .21 TWP .45 RGE .46W		Country USA	
Permanent Datum		GROUND LEVEL		Elevation	
Log Measured From		K.B. N/A		K.B. N/A	
Drilling Measured From		KELLY BUSHING		D.F. N/A	
Date		01-26-2018		G.I. N/A	
Run Number		ONE		Other Services	
Depth Driller		N/A		4-1/2" CASING	
Depth Logger		3010'			
Bottom Logged Interval		3000'			
Top Log Interval		SURFACE			
Open Hole Size		N/A			
Type Fluid		WATER			
Density / Viscosity		N/A			
Max. Recorded Temp.		N/A			
Estimated Cement Top		SEE LOG			
Time Well Ready		SEE LOG			
Time Logger on Bottom		SEE LOG			
Equipment Number		WL-40			
Location		PLATTEVILLE CO.			
Recorded By		BILL JEAN			
Witnessed By		MR. JAY PAPE			
Run Number		Borehole Record		Tubing Record	
Bit		From		To	
Size		Wgt/Ft		Top	
8-5/8"		23#		SURFACE	
4-1/2"		11.6#		SURFACE	
1796' TO 1799'				8202'	

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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.

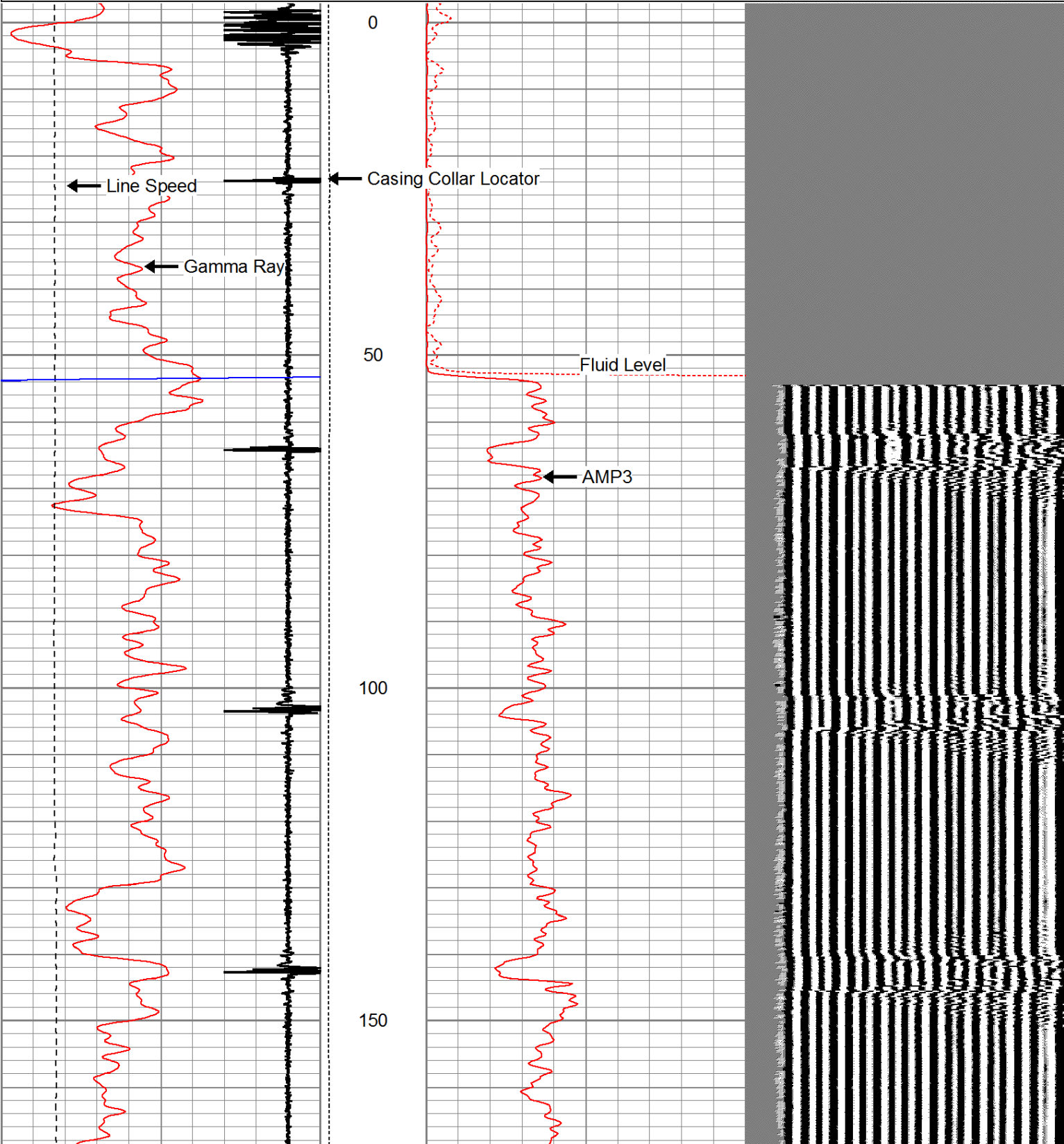
Comments

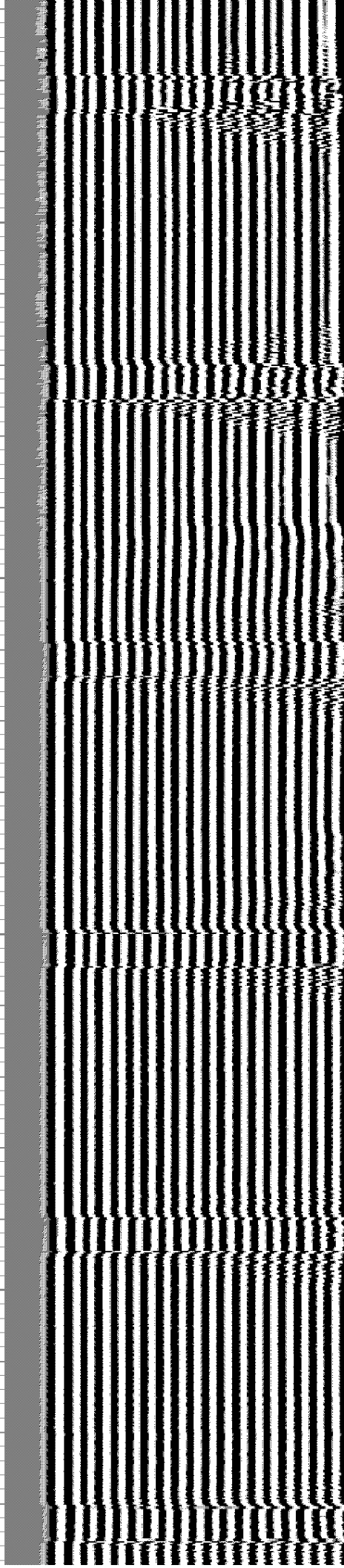
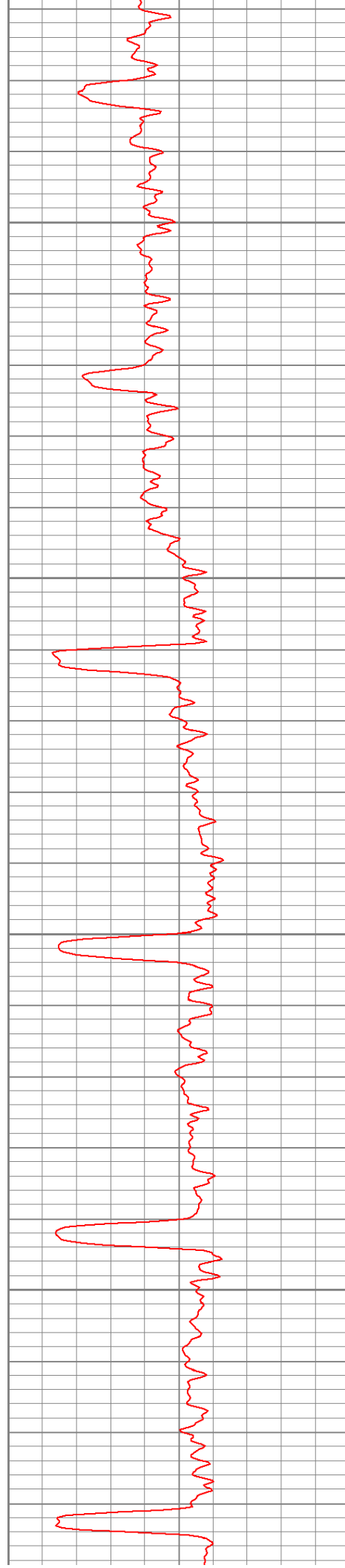
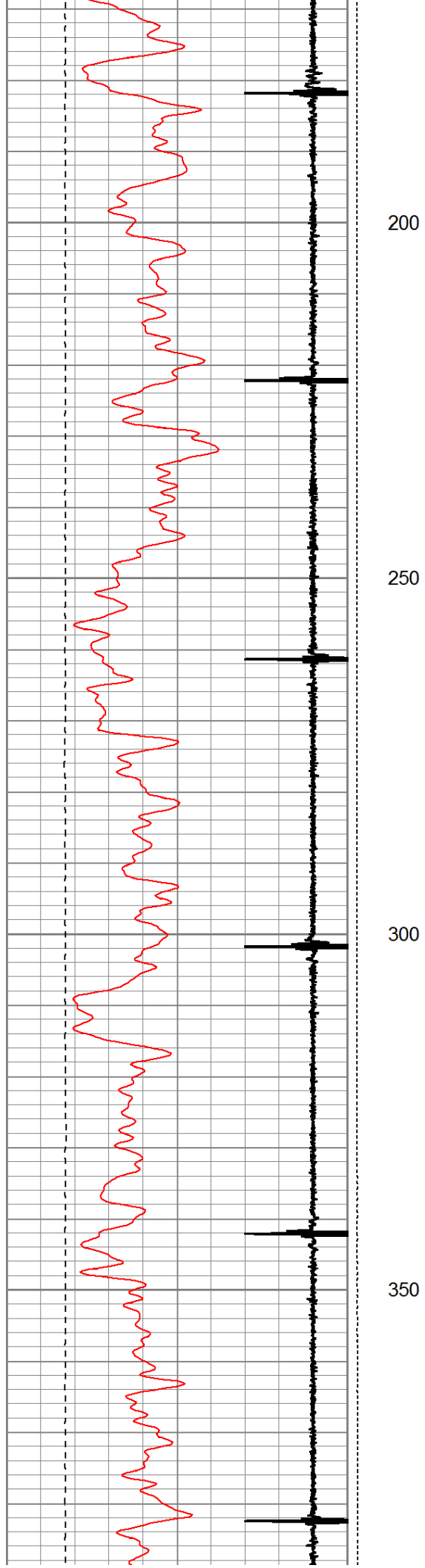
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CHD	23.25		CHD-STNDRD (GOI) Standard Cable Head	1.00	1.69	10.00
CENT	22.25					

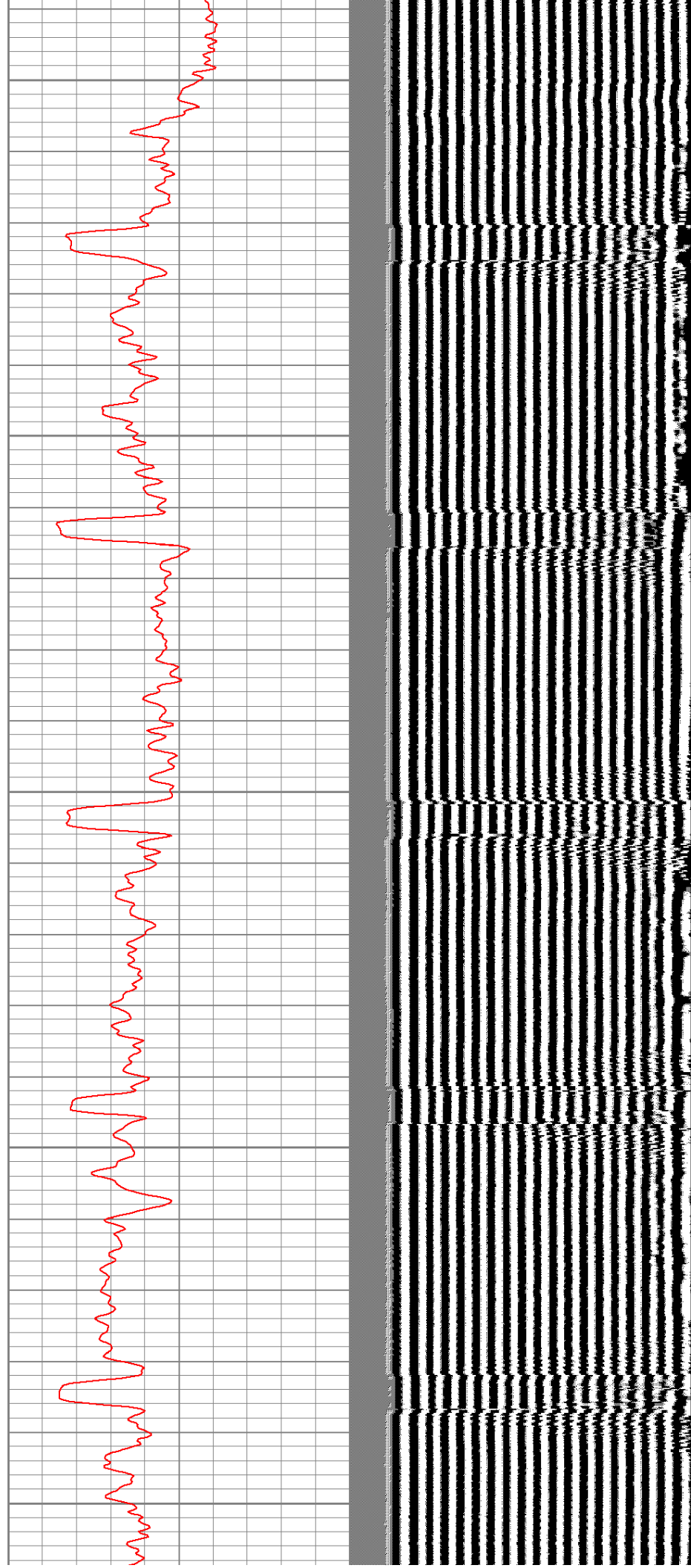
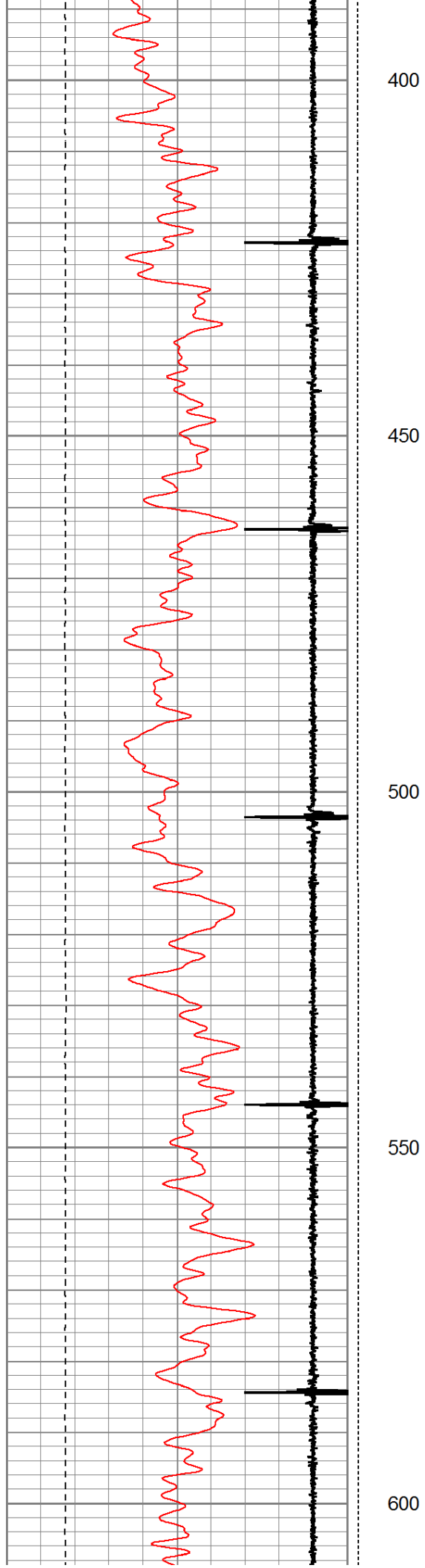
			PTS275	2.83	2.75	
WVF3	14.50			9.17	2.75	100.00
WVF5	13.50					
CENT	10.25					
			PTS275	2.83	2.75	
GR	7.42					
CCL	6.47					
				4.58	2.75	30.00
GR	3.73					
CENT	2.83					
			PTS275	2.83	2.75	
Dataset: exstration.db: field/well/run1/pass3 Total Length: 23.25 ft Total Weight: 140.00 lb O.D. 2.75 in						

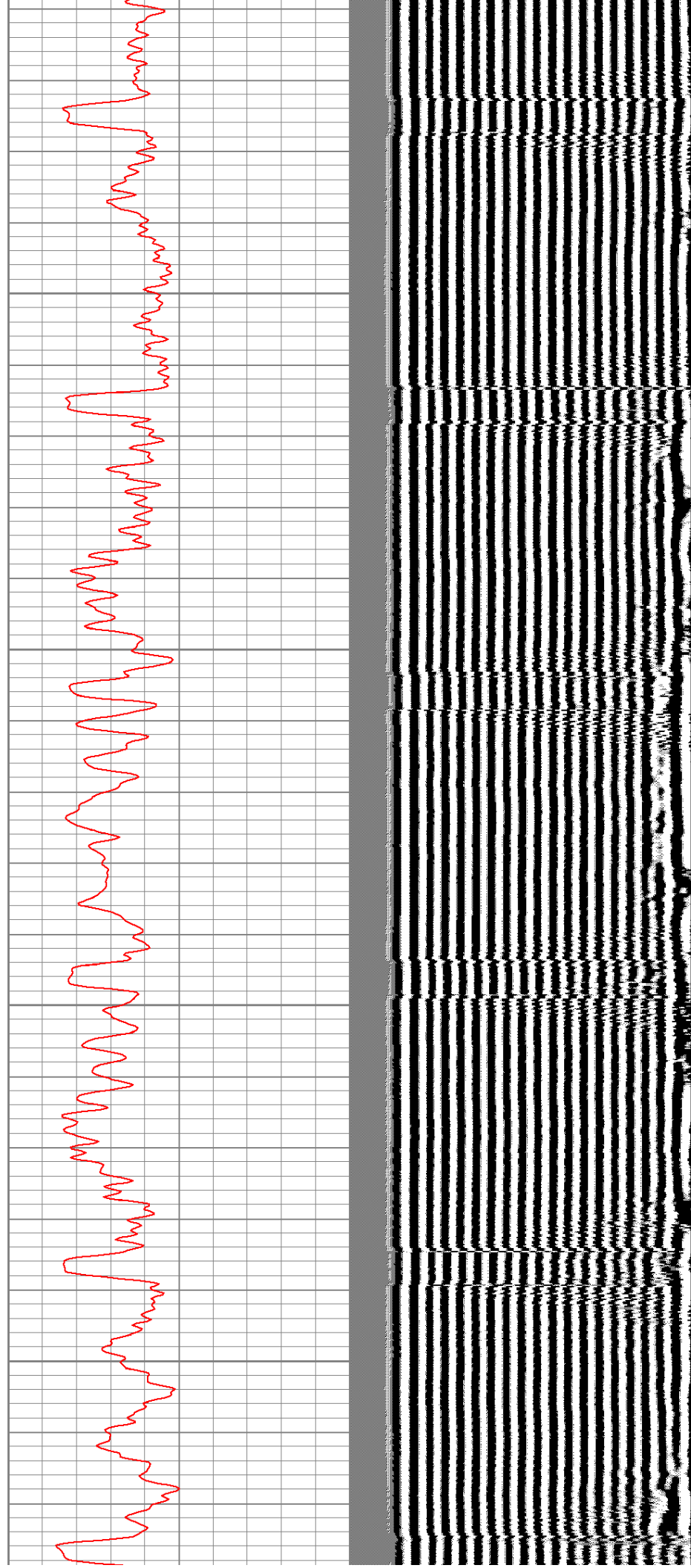
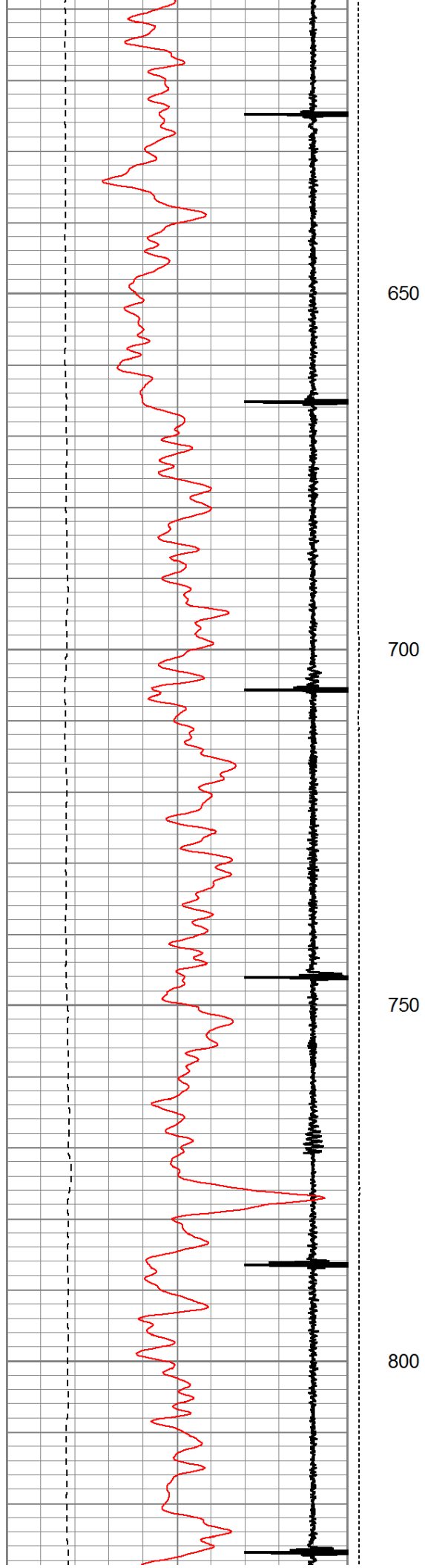
Database File: exstration.db
Dataset Pathname: pass3
Presentation Format: cblww
Dataset Creation: Fri Jan 26 09:34:07 2018 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

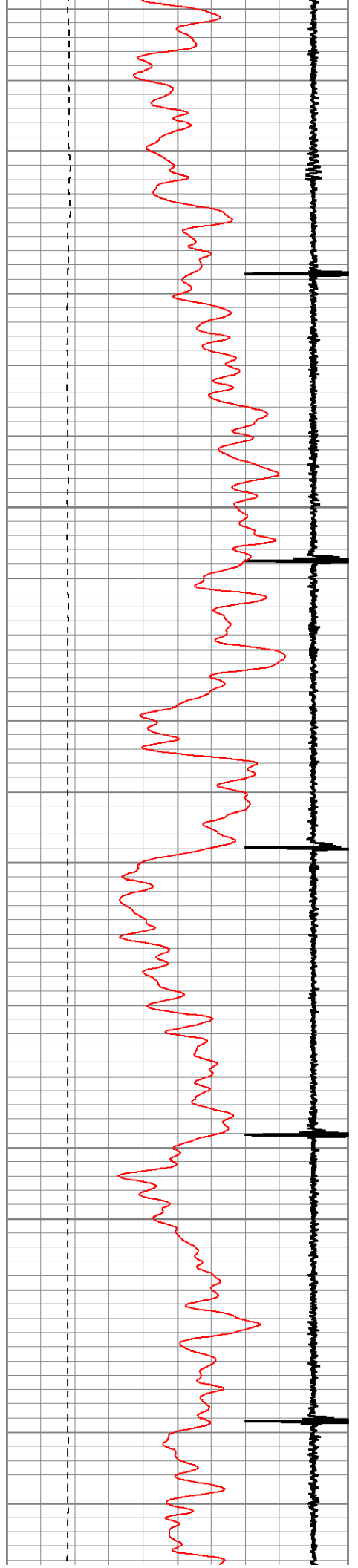
9	Collar Locator	-1	LTEN	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	200	0 (lb'2800	0	Amplitude (mV)	100			
-100	Line Speed (ft/min)	100							
230	TT3 (usec)	330							









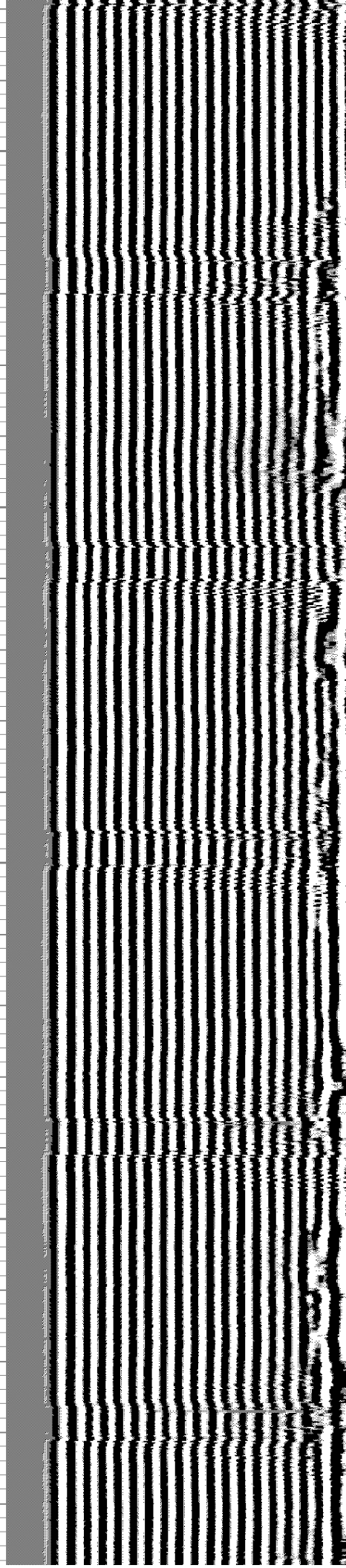
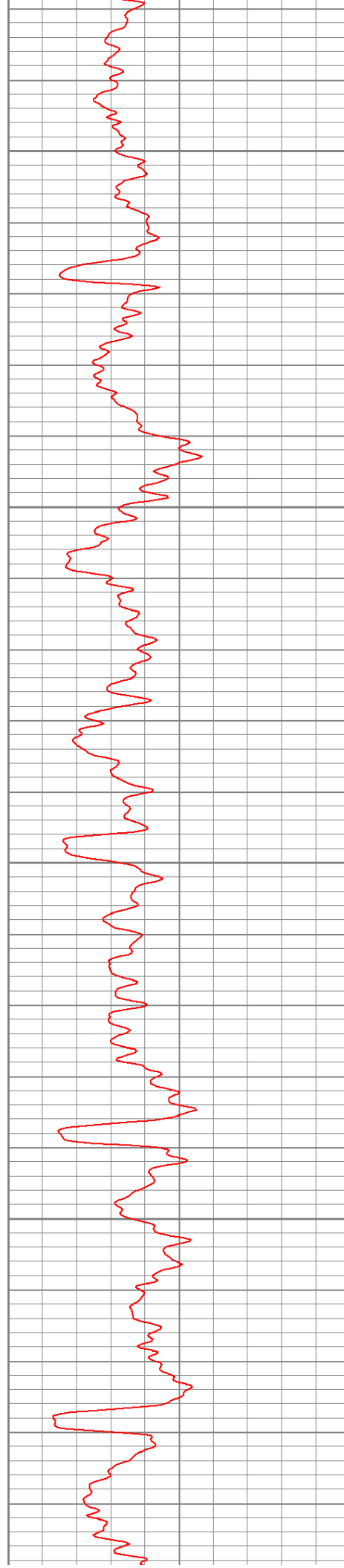


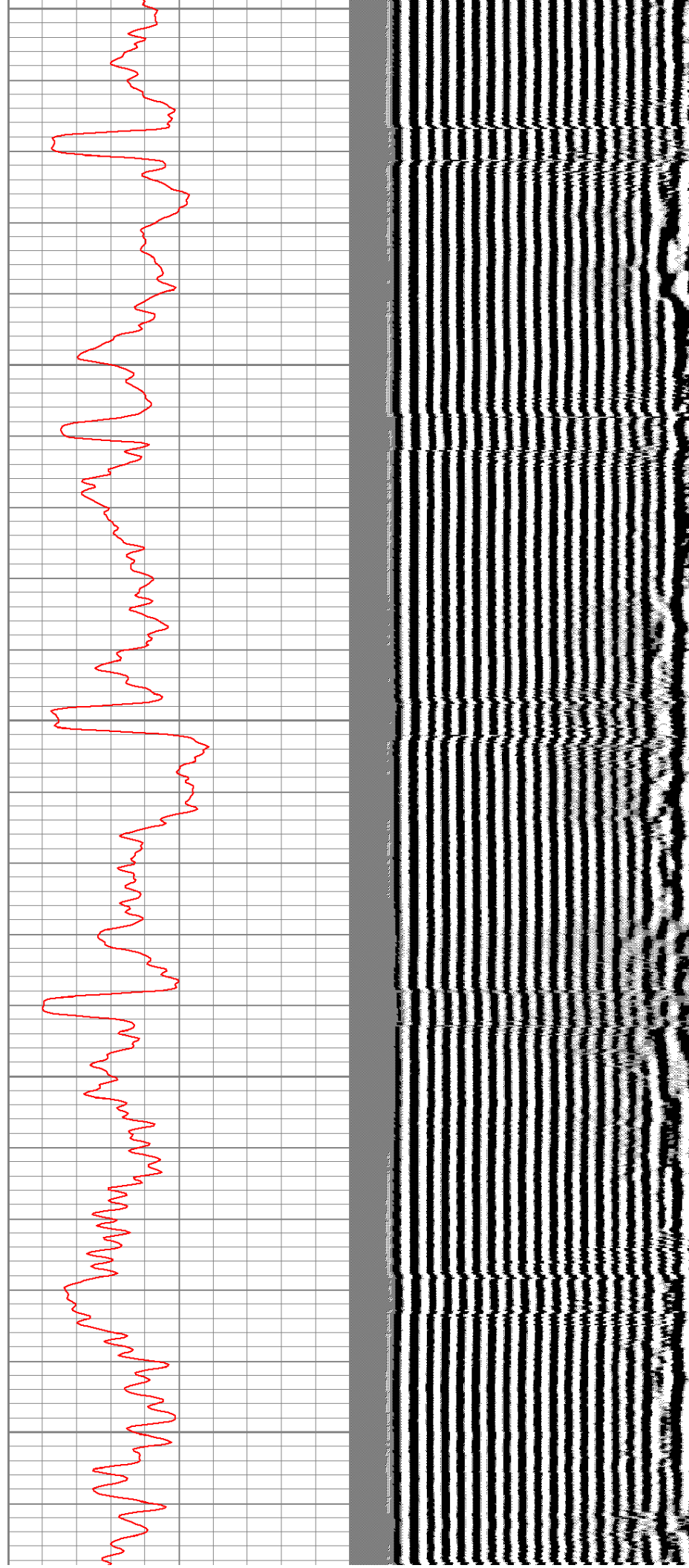
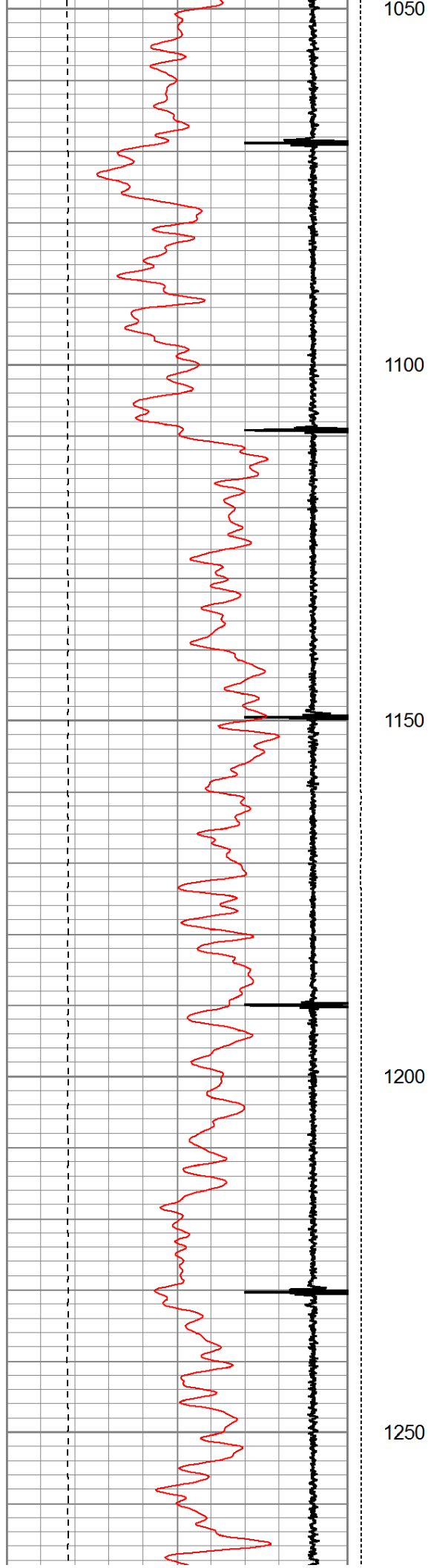
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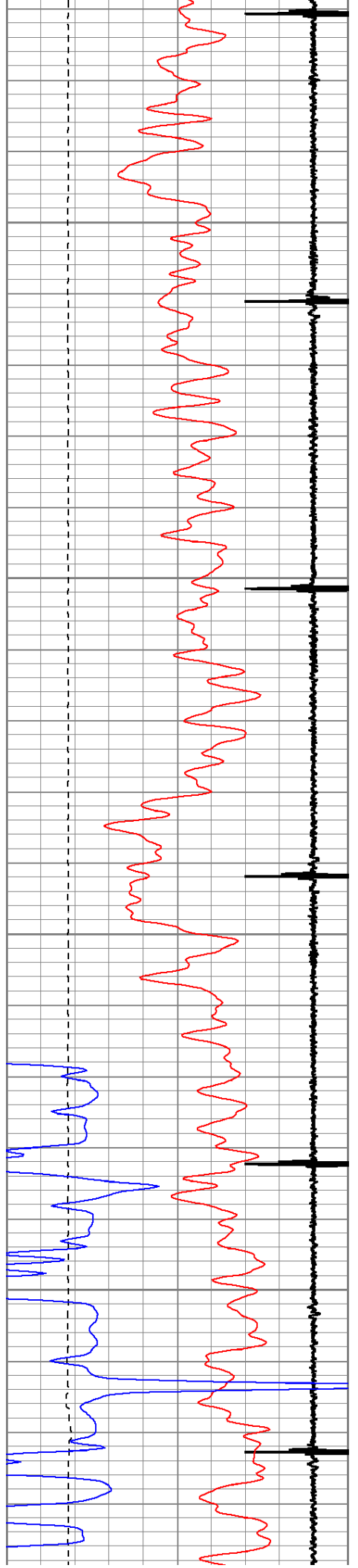
900

950

1000





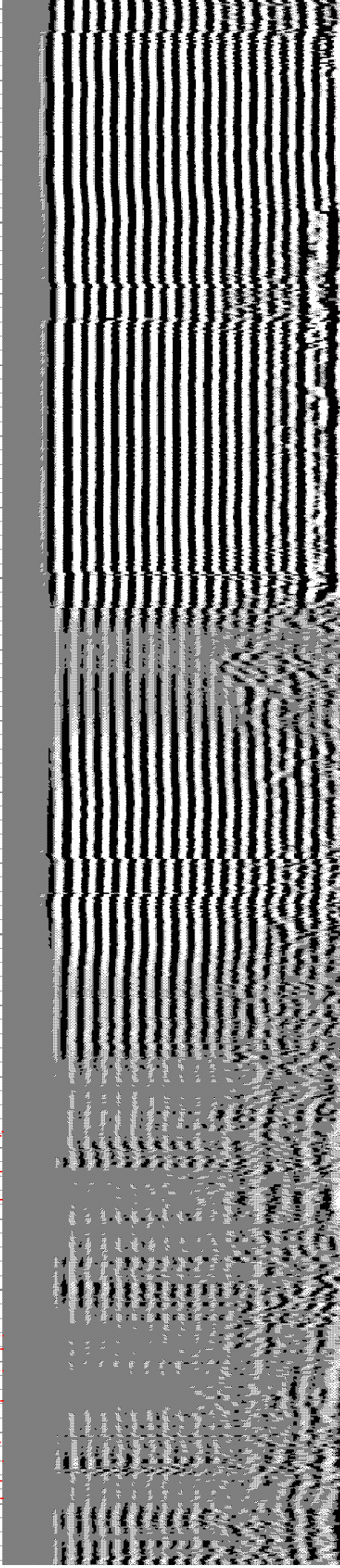
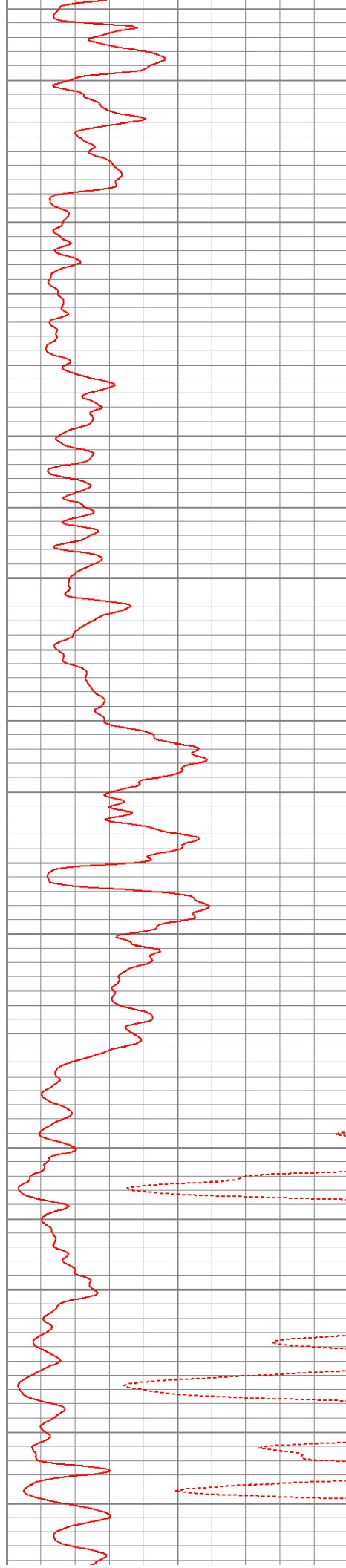


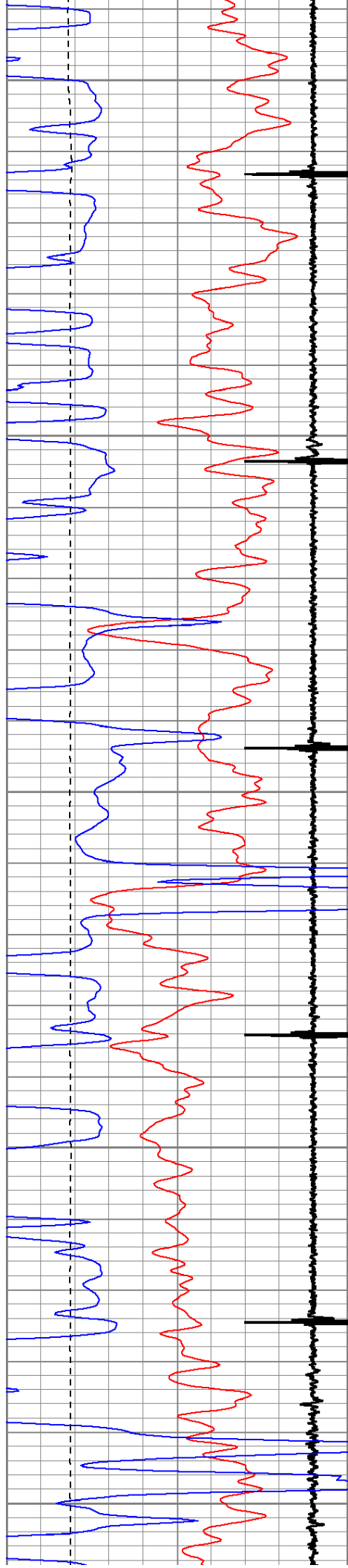
1300

1350

1400

1450





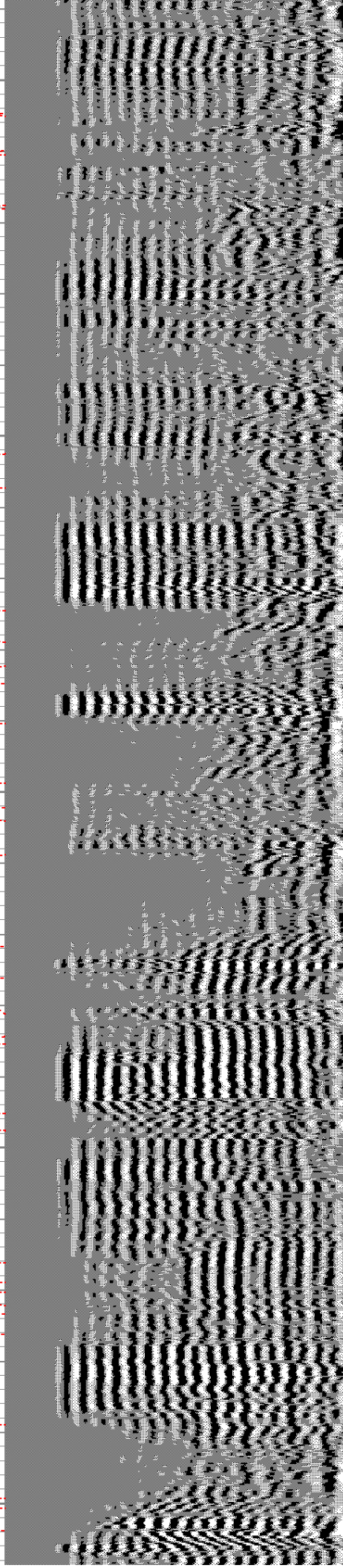
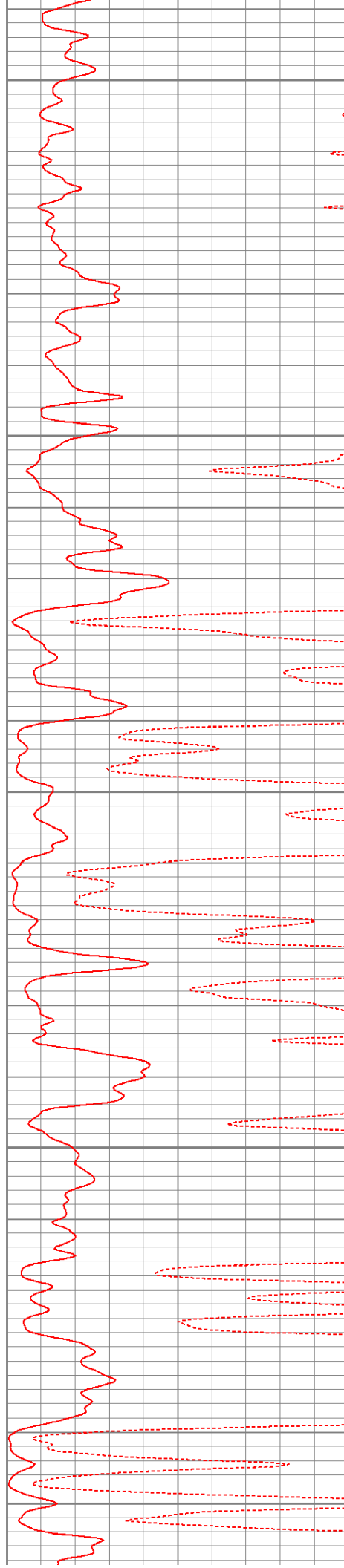
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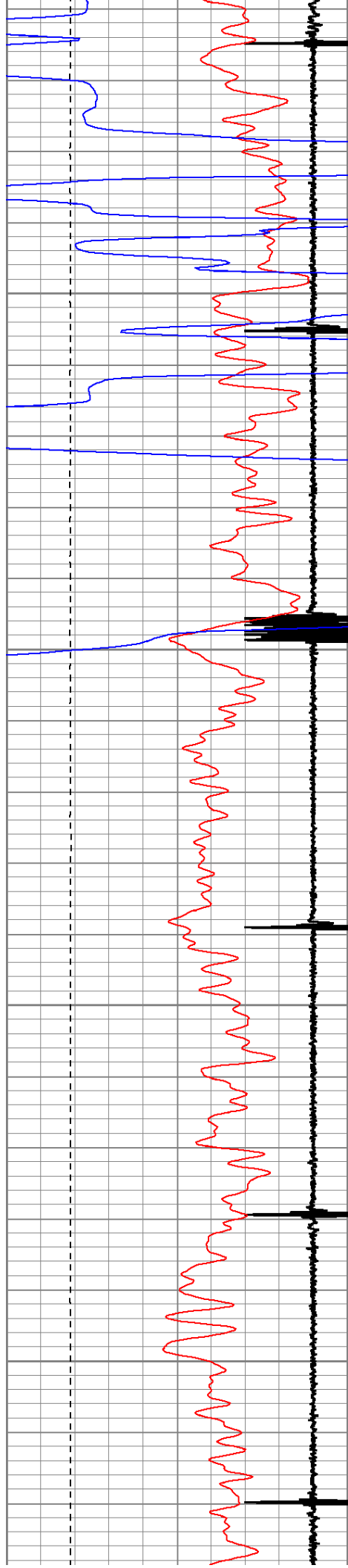
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1600

1650

1700





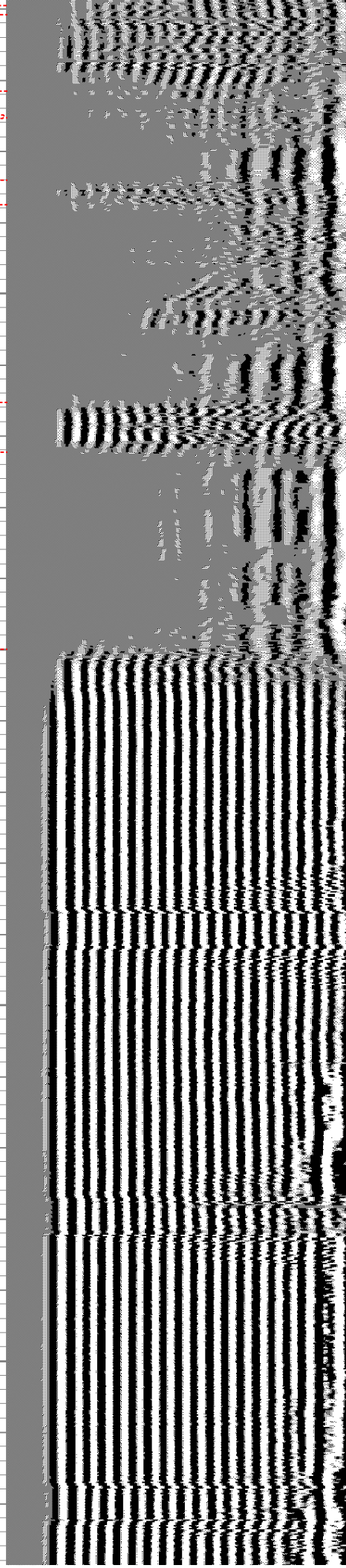
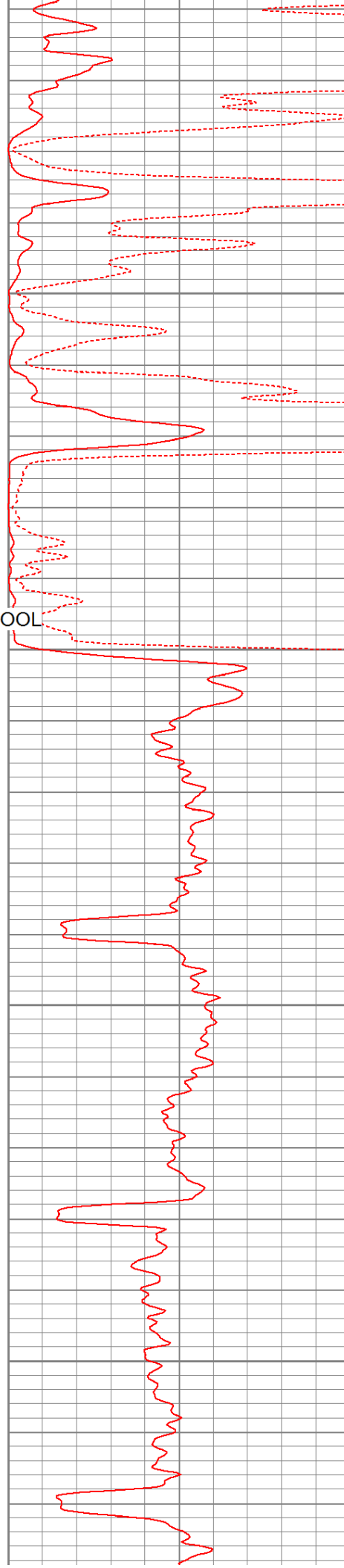
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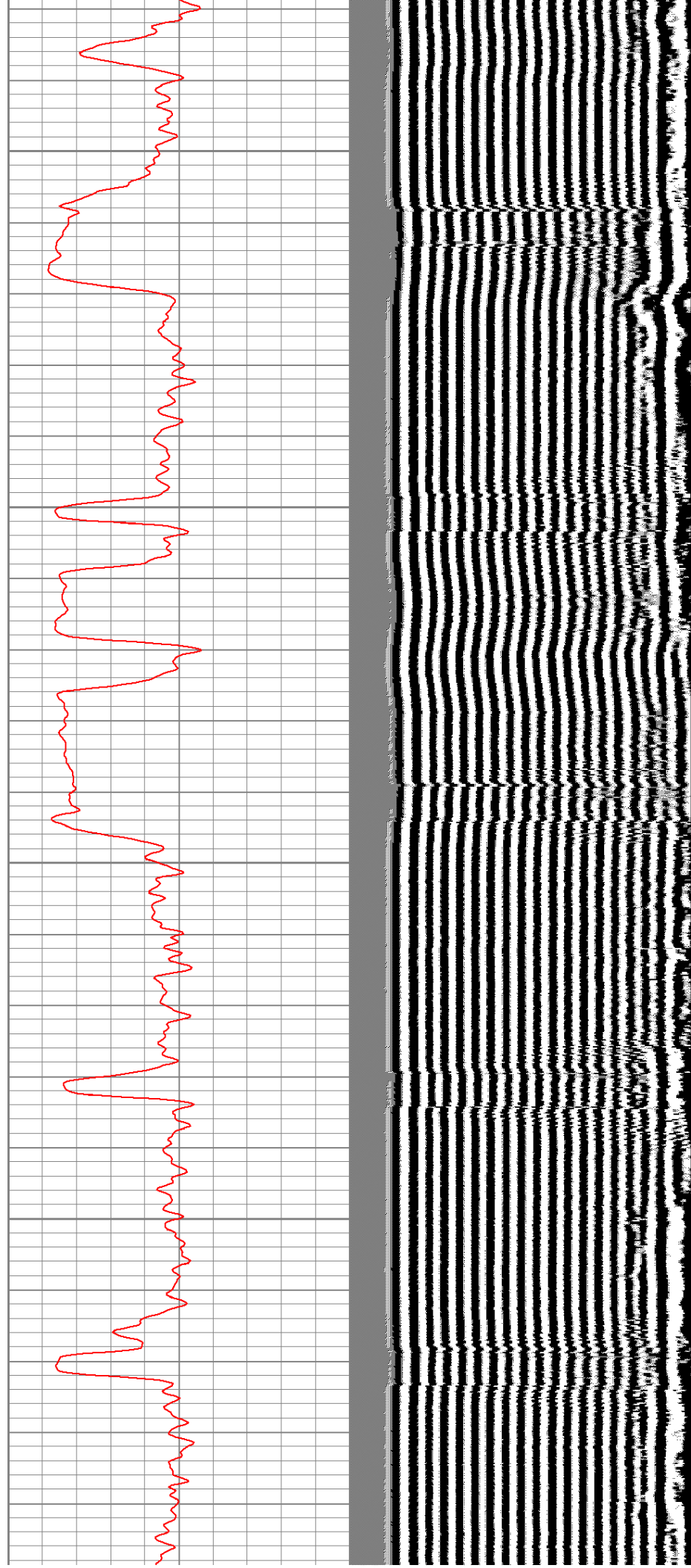
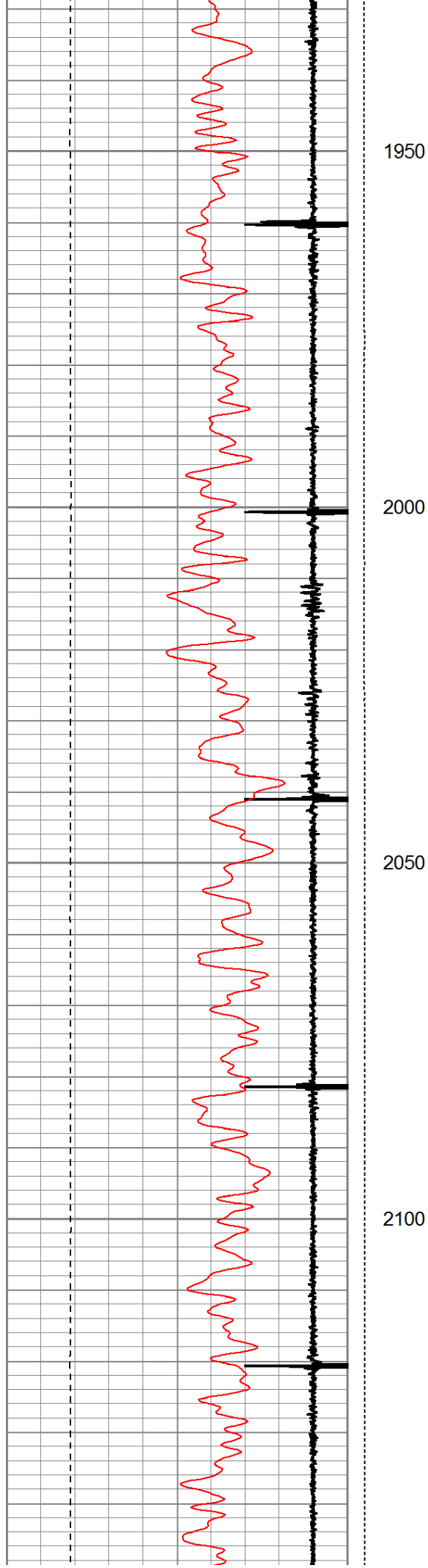
← D.V. TOOL

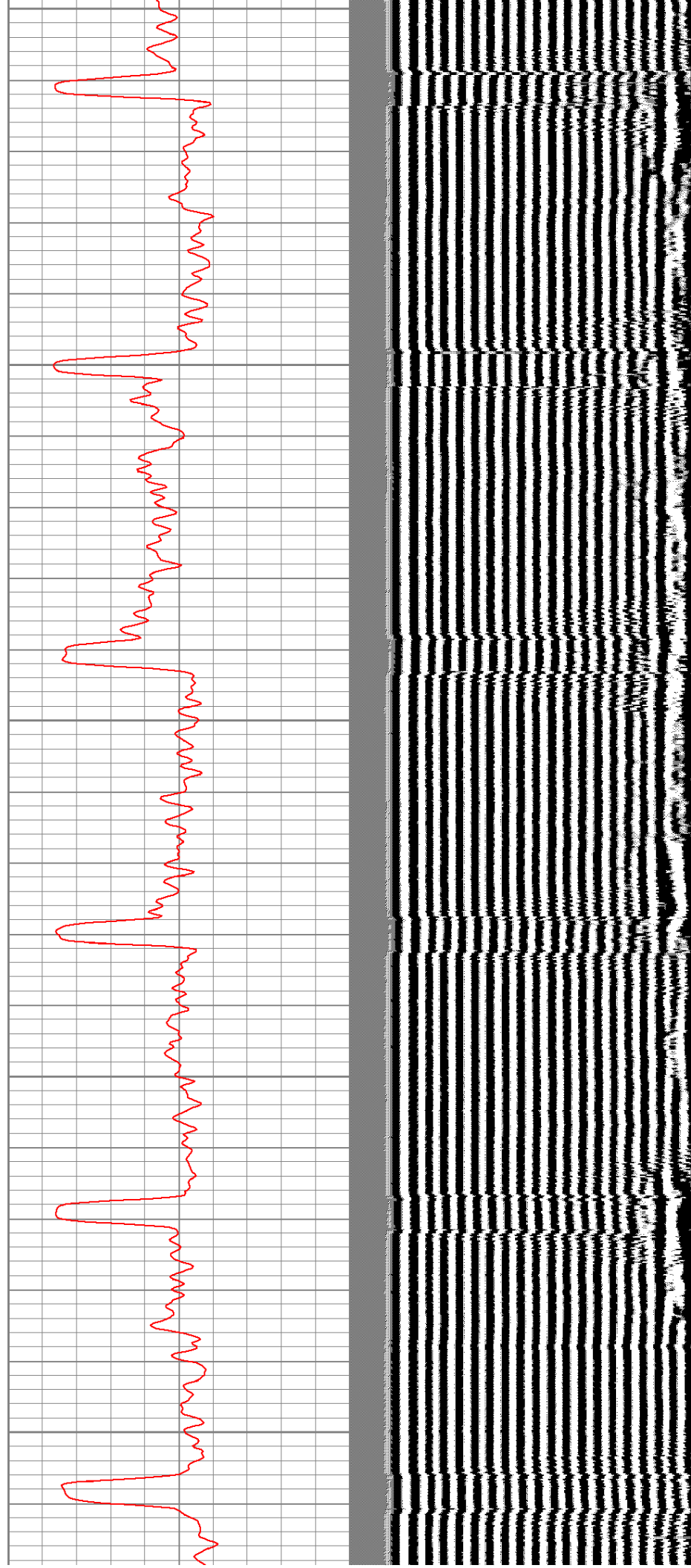
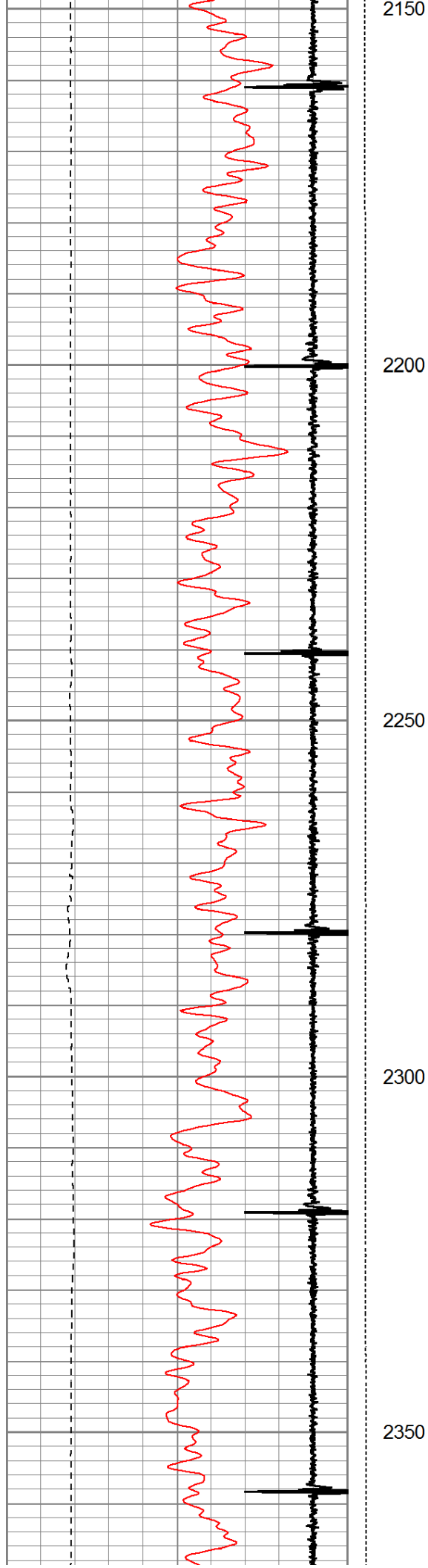
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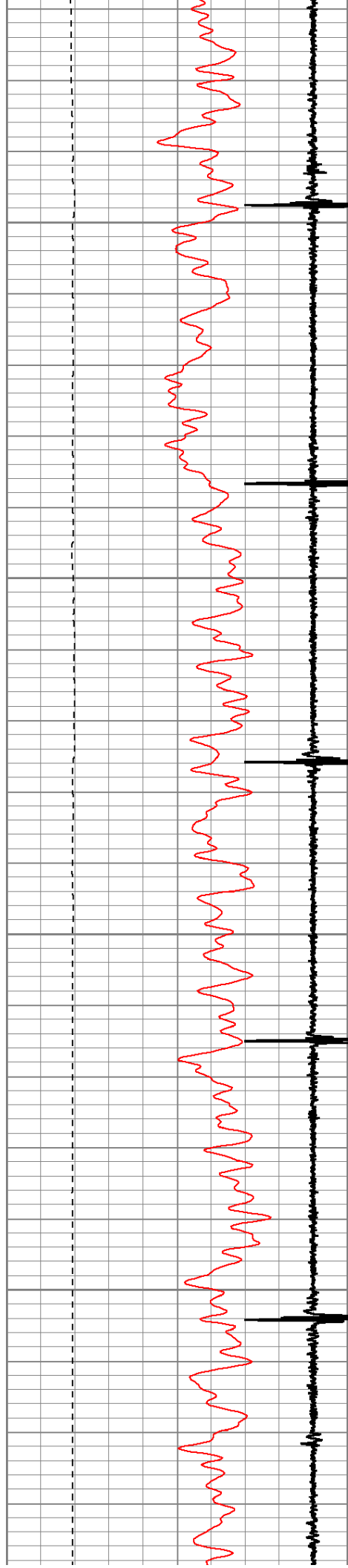
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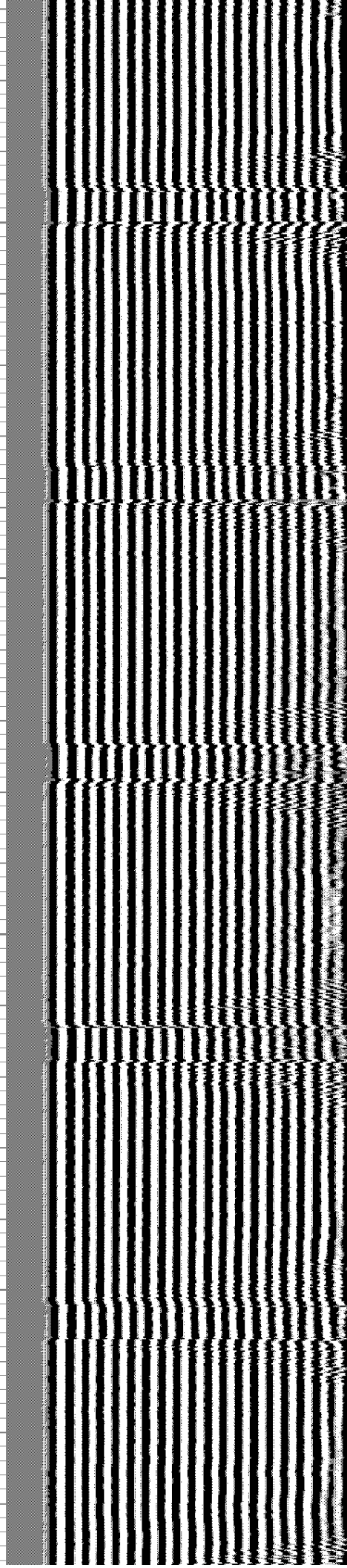
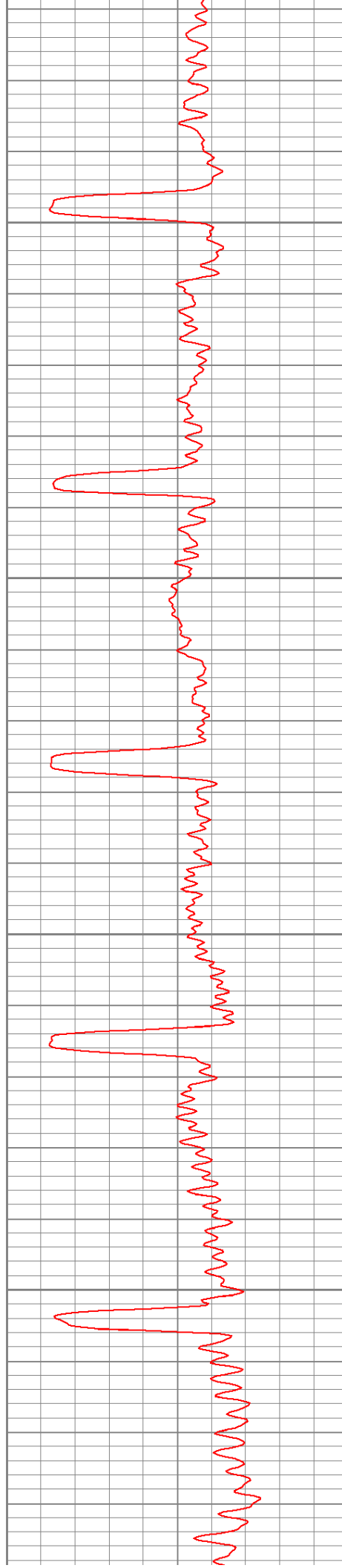


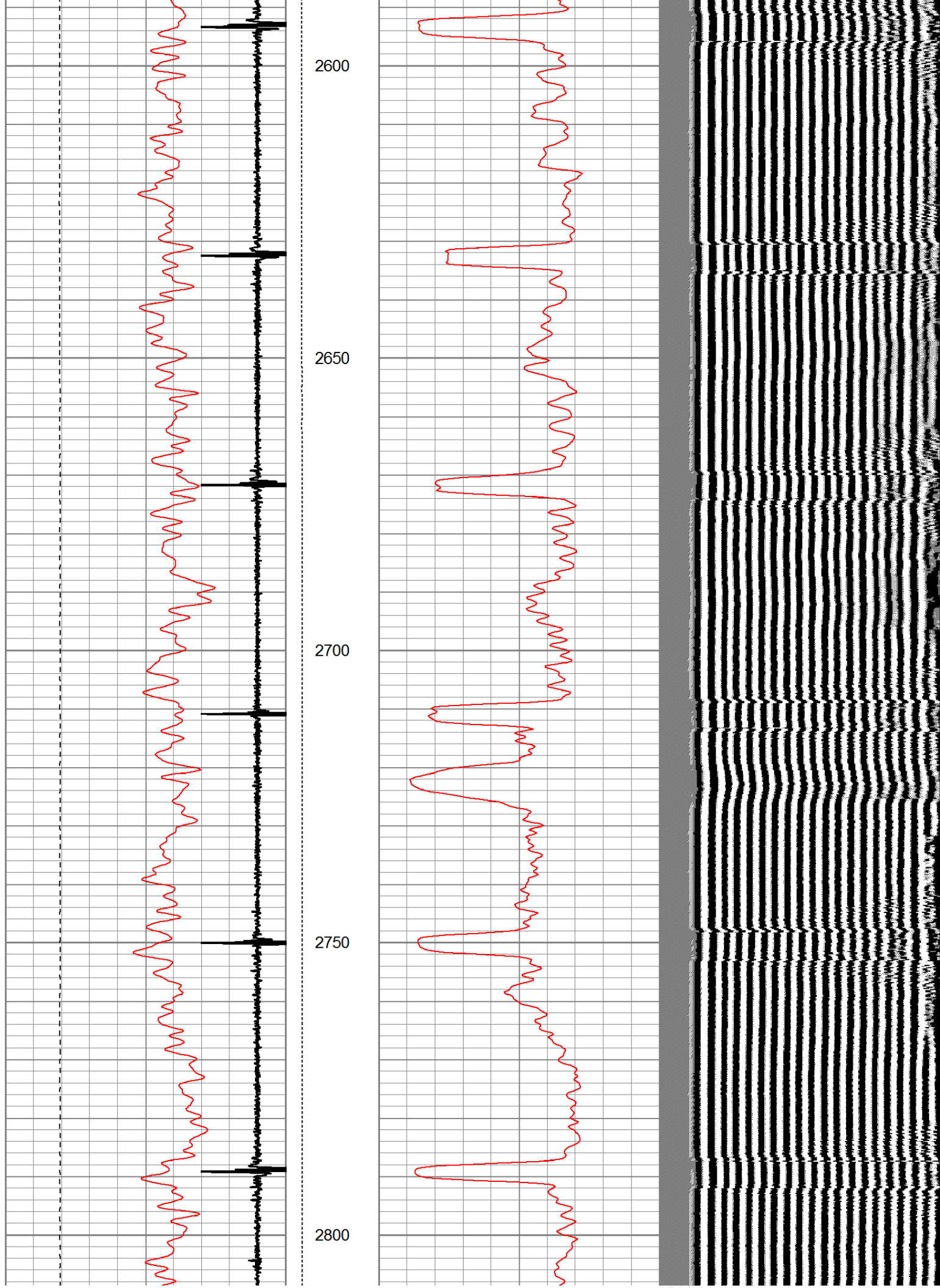
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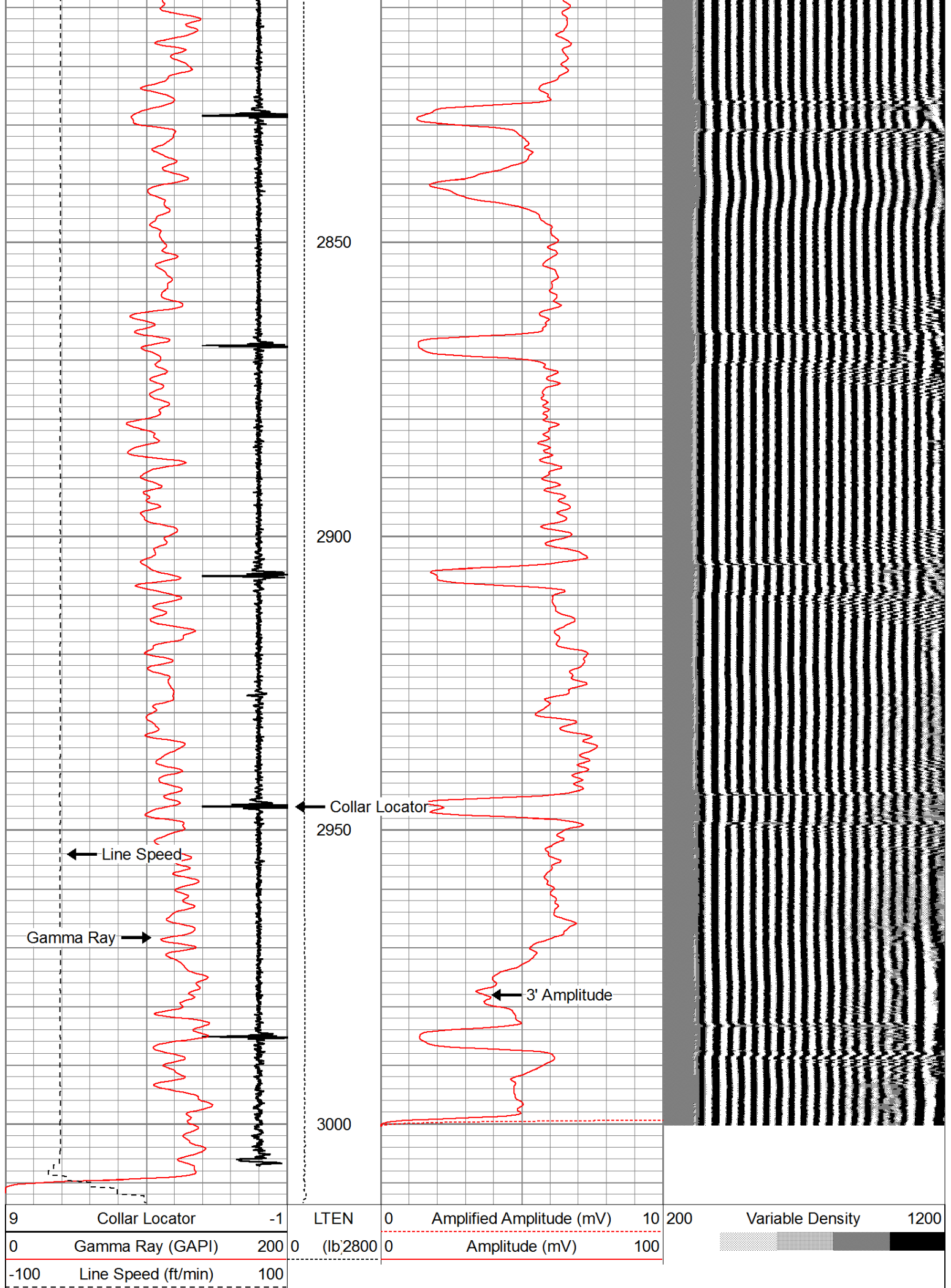
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2500

2550







230	TT3 (usec)	330