



# VDL CCL GAMMA RAY CEMENT BOND LOG

Pioneer Energy Services

Company KERR-MCGEE OIL & GAS ONSHORE LP  
Well NELSON 33-35  
Field WATTENBERG  
County WELD State COLORADO

Location: API # : 05123293790000 Other Services  
1597' FSL & 1665' FWL  
NESW  
SEC 35 TWP 2N RGE 68W  
Permanent Datum GL Elevation 4969'  
Log Measured From KB  
Drilling Measured From KB  
Elevation K.B. 4984'  
D.F. 4983'  
G.L. 4969'

Date 121-20-13

Run Number ONE  
Depth Driller 8517'  
Depth Logger 2500'  
Bottom Logged Interval 2500'  
Top Log Interval 500'  
Open Hole Size 7.875"  
Type Fluid WATER  
Density / Viscosity NA  
Max. Recorded Temp. 188 DEG. F  
Estimated Cement Top 795'  
Time Well Ready NA  
Time Logger on Bottom NA  
Equipment Number 9605  
Location FT MORGAN  
Recorded By TODD YOUNG  
Witnessed By NICK LANG

Borehole Record  
Run Number Bit From To Size Weight From To

Casing Record  
Surface String Size Wgt/Ft Top Bottom  
Prot. String 4.5" 11.6# SURFACE TD  
Production String  
Liner


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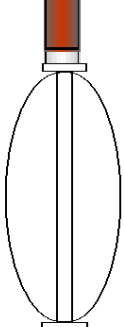

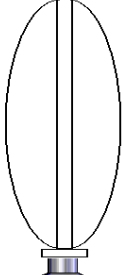
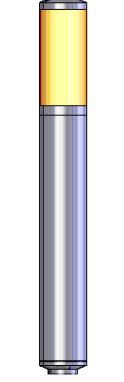
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

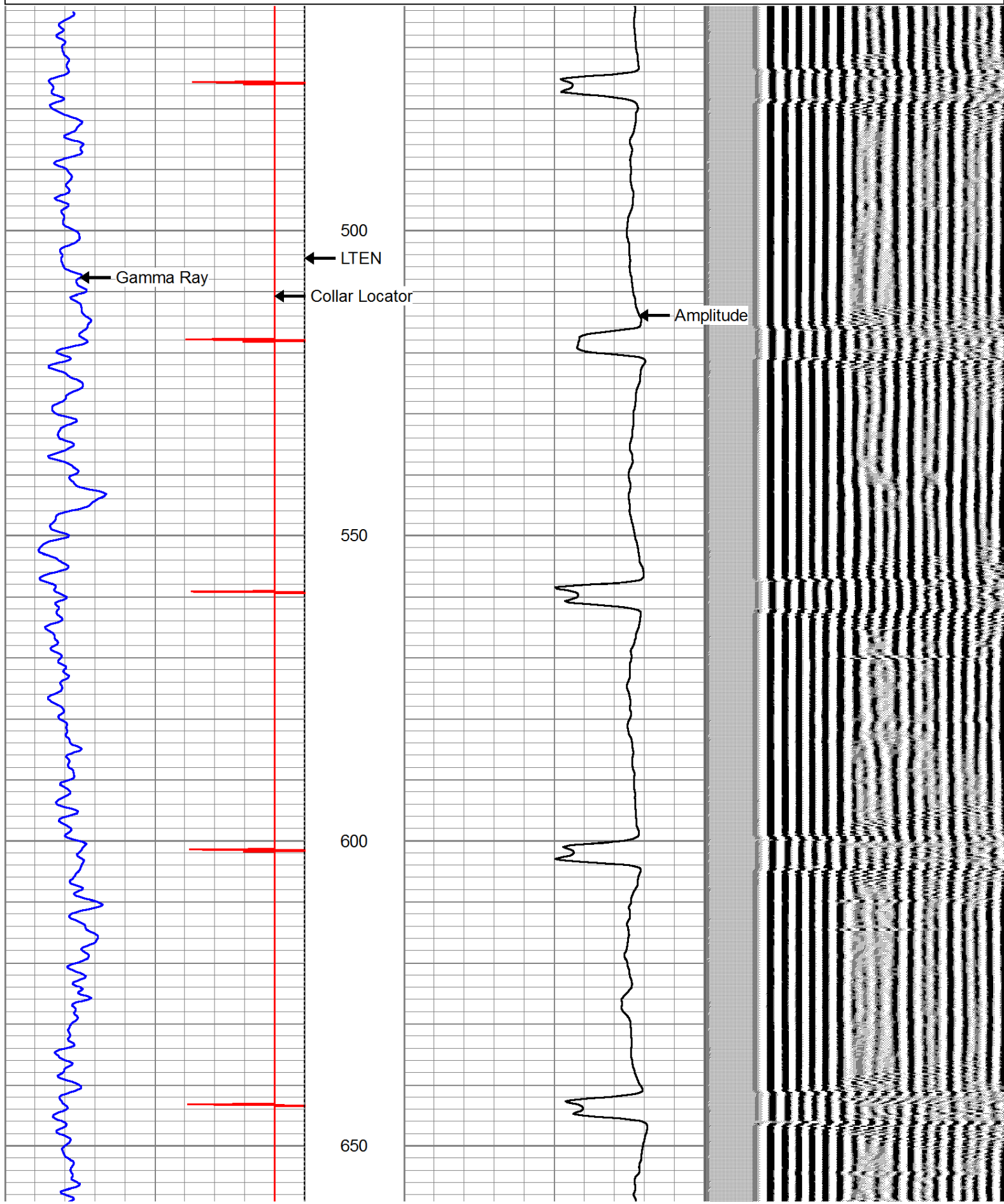
SO # 2-204912

THANK YOU FOR USING  
PIONEER ENERGY SERVICES

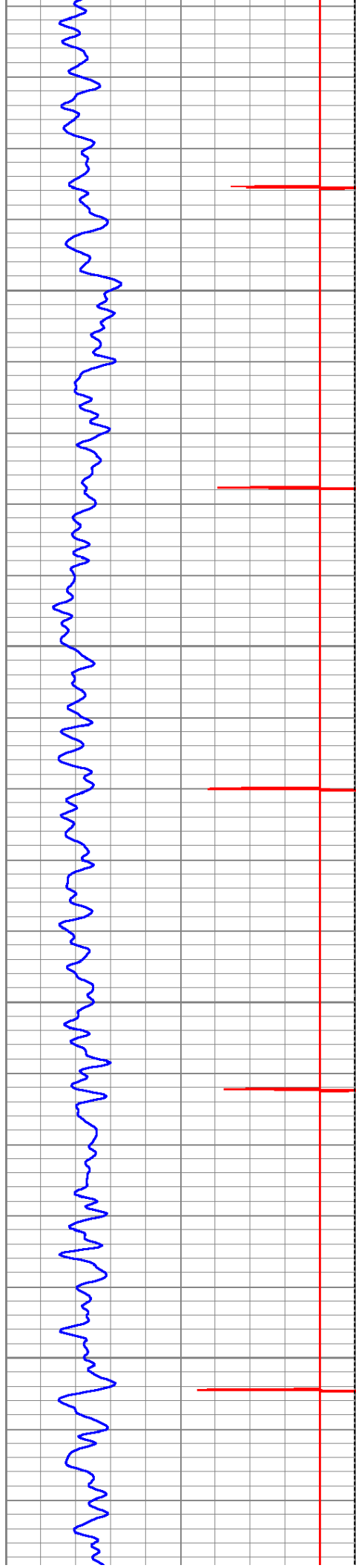
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.98		CCL-titan01 (01t)	1.92	2.75	

				SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	11.58						
WVF5	10.58			CBL-Probe (050215) 2.75 digital probe	8.75	2.75	106.50
				SDSCENT Centralizer for testing	3.00	3.25	20.00
GR	1.13			GR-probe 2.75 (51013) PROBE	4.33	2.75	100.00
Dataset: nelson 33-35.db: field/well/run1/pass4 Total Length: 21.00 ft Total Weight: 246.50 lb O.D. 3.25 in							

9	Collar Locator	-1	LTEN	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	300	0 (lb)2000	0	Amplitude (mV)	100			





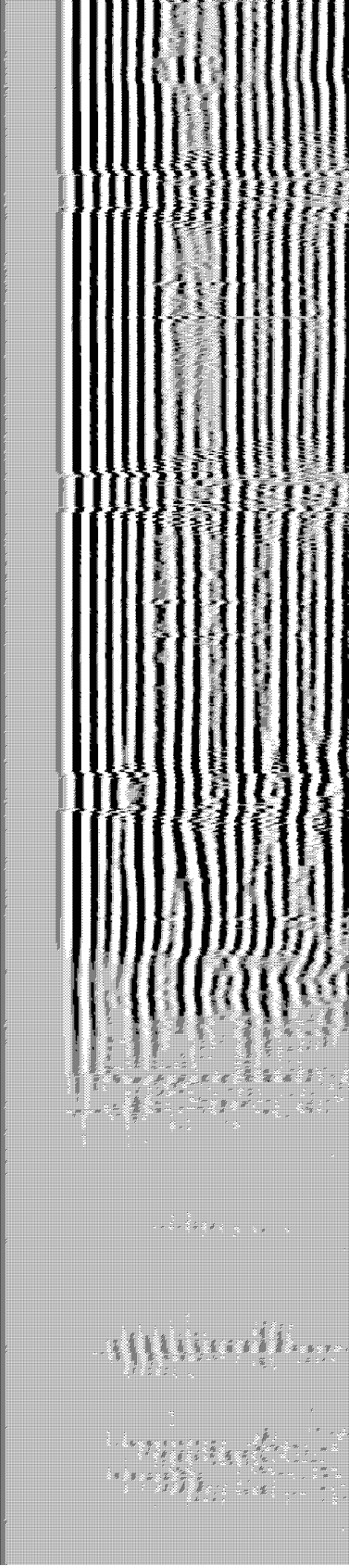
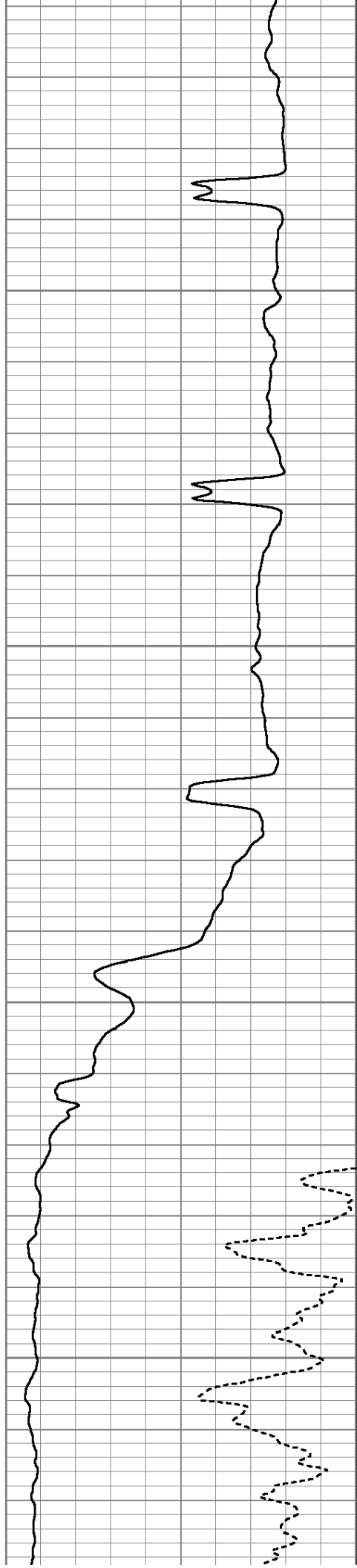


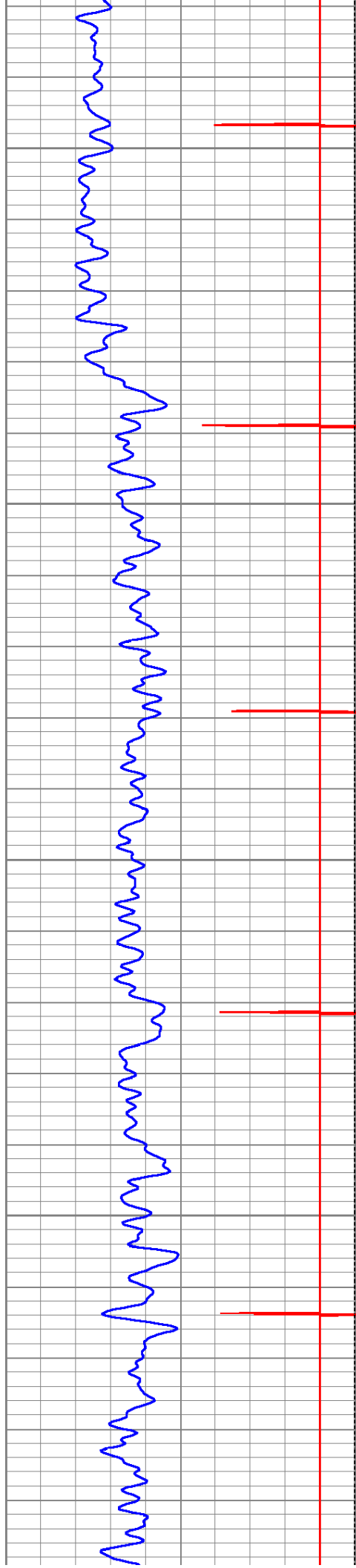
700

750

800

850



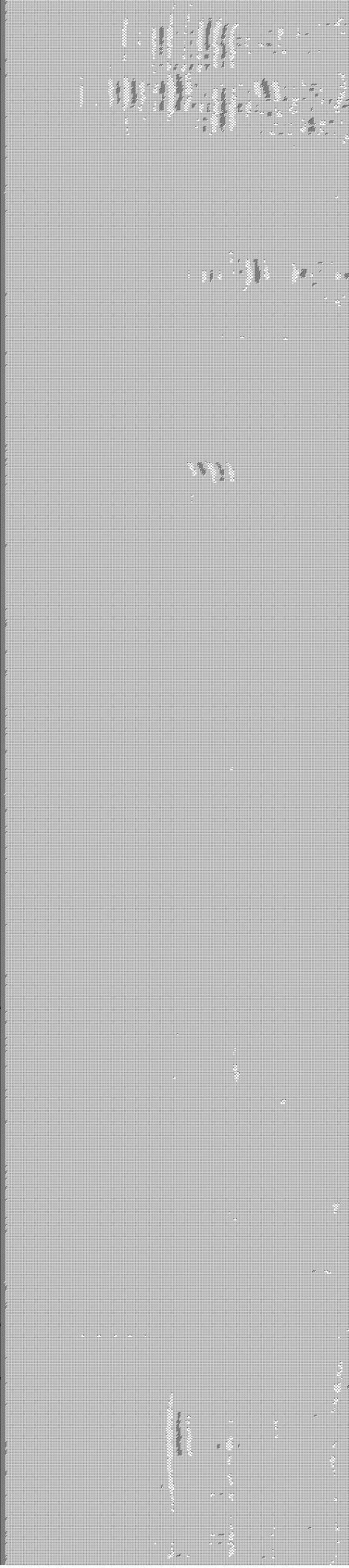
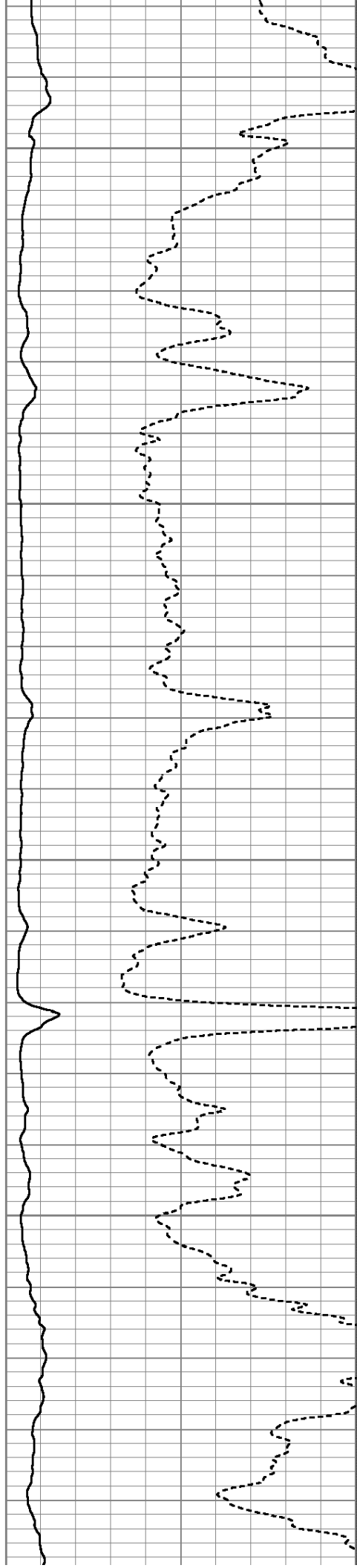


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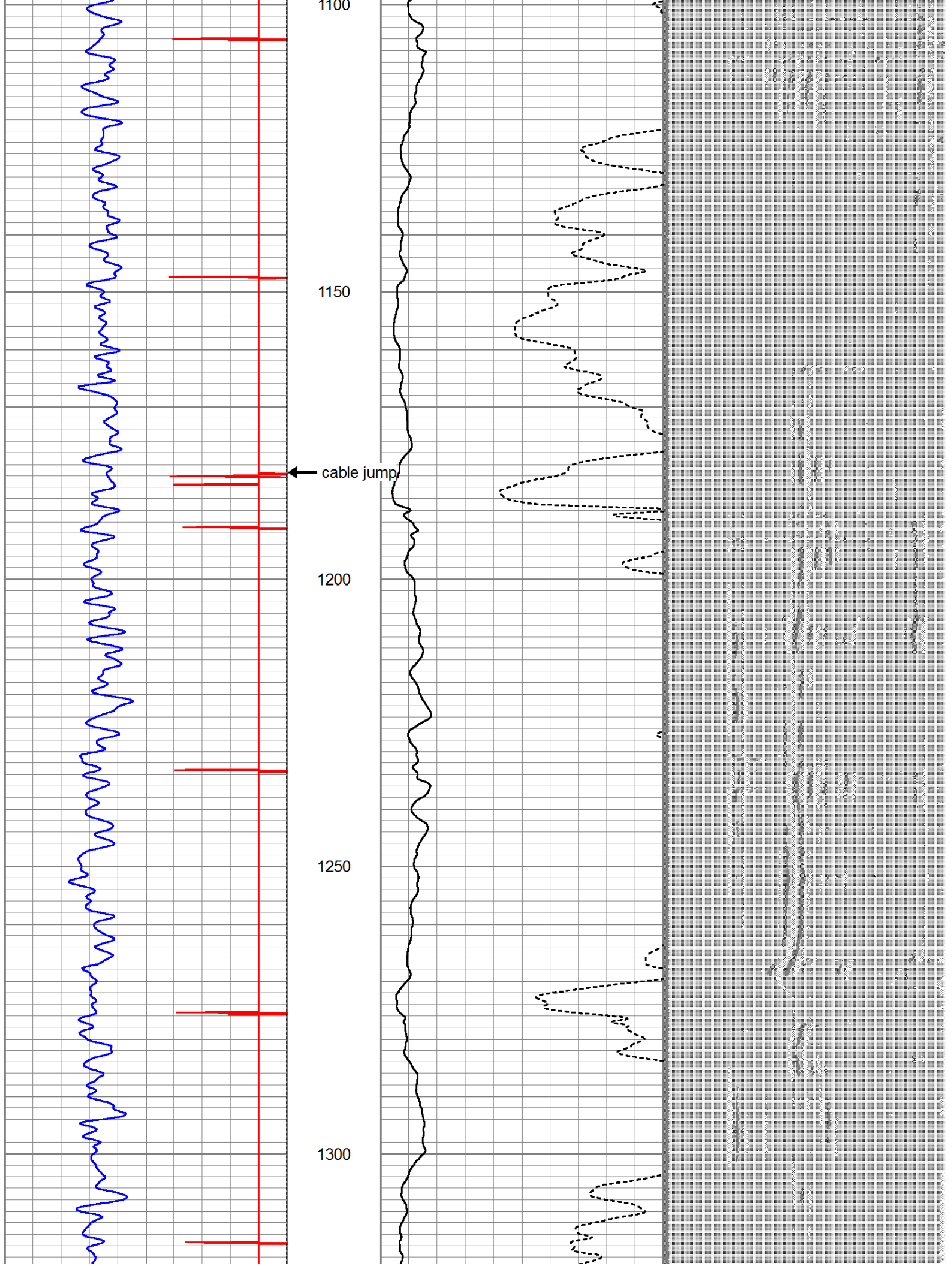
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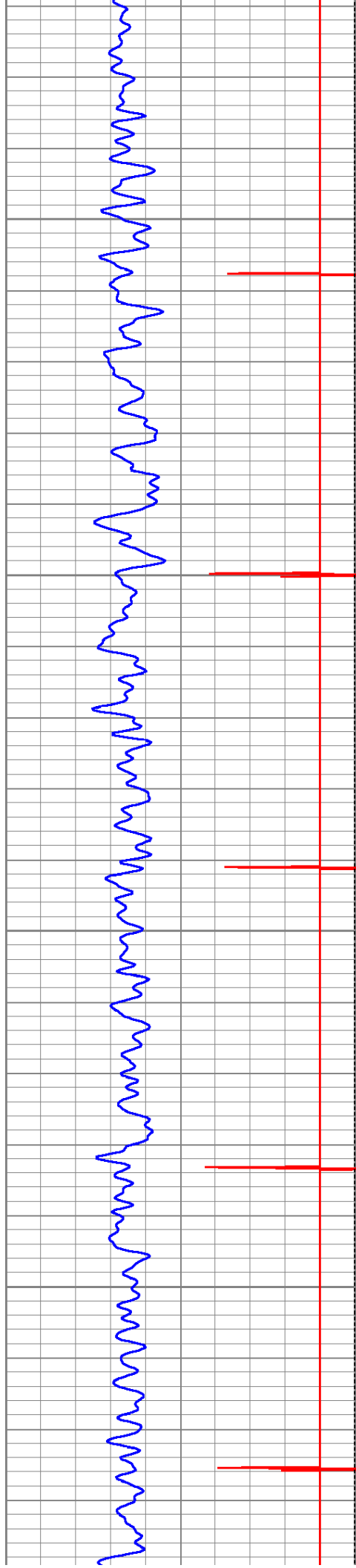
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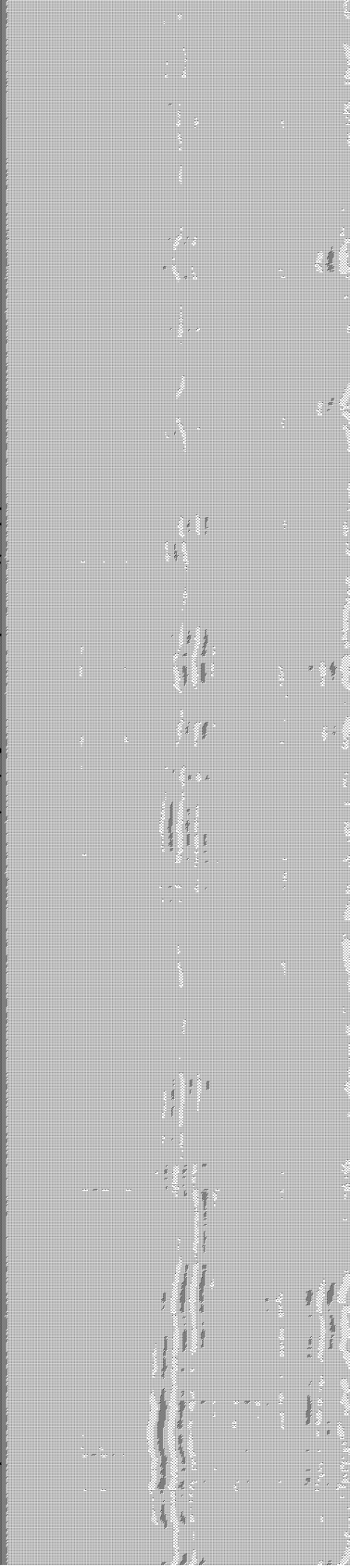
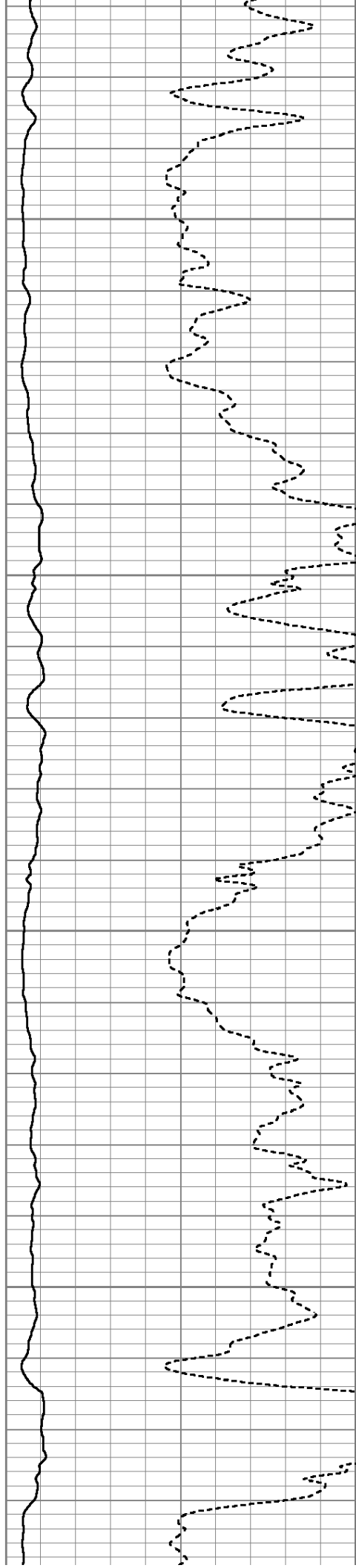


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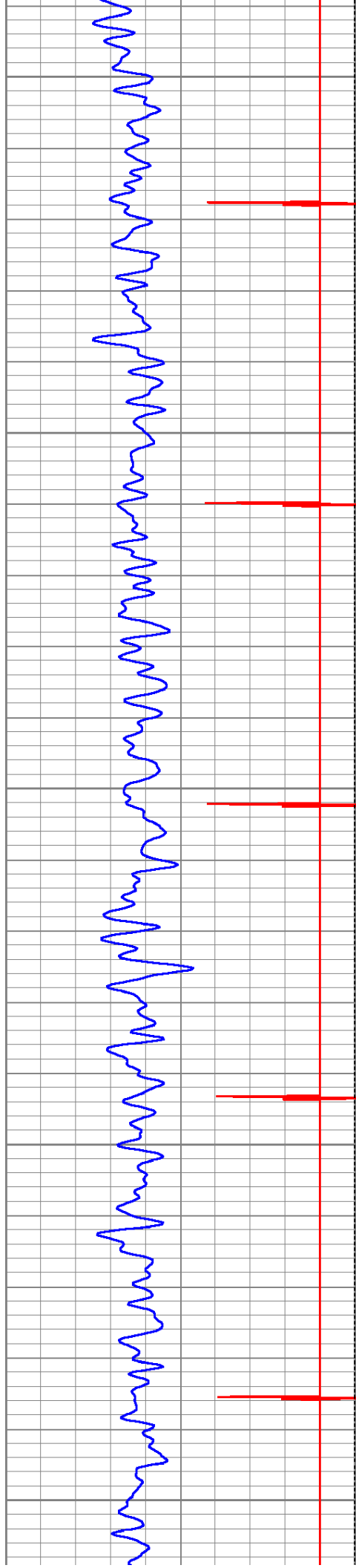
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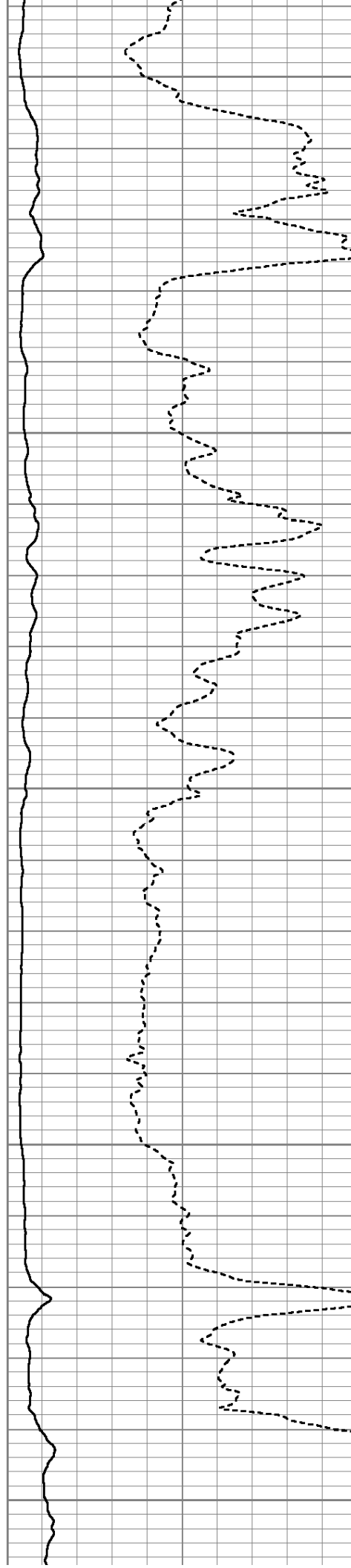
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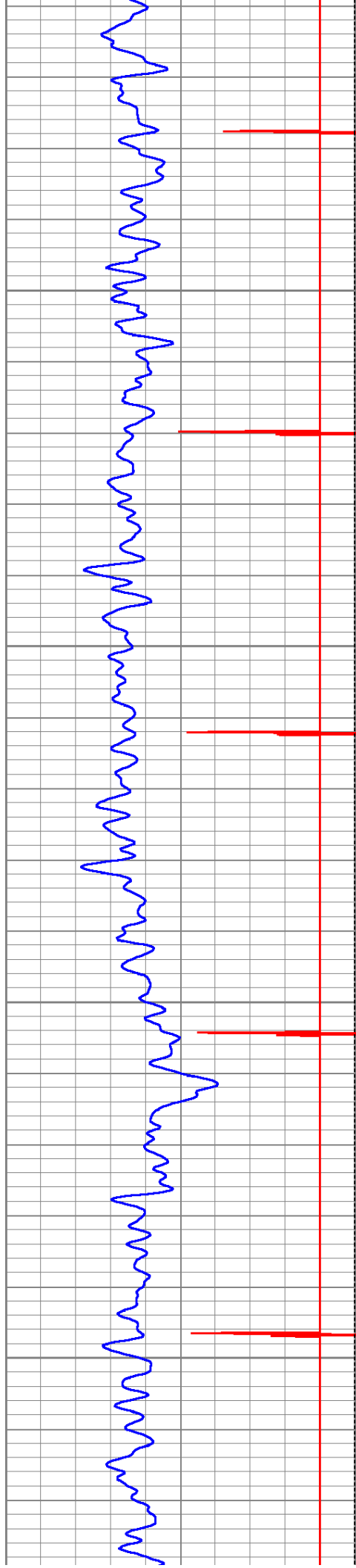
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1700

1750





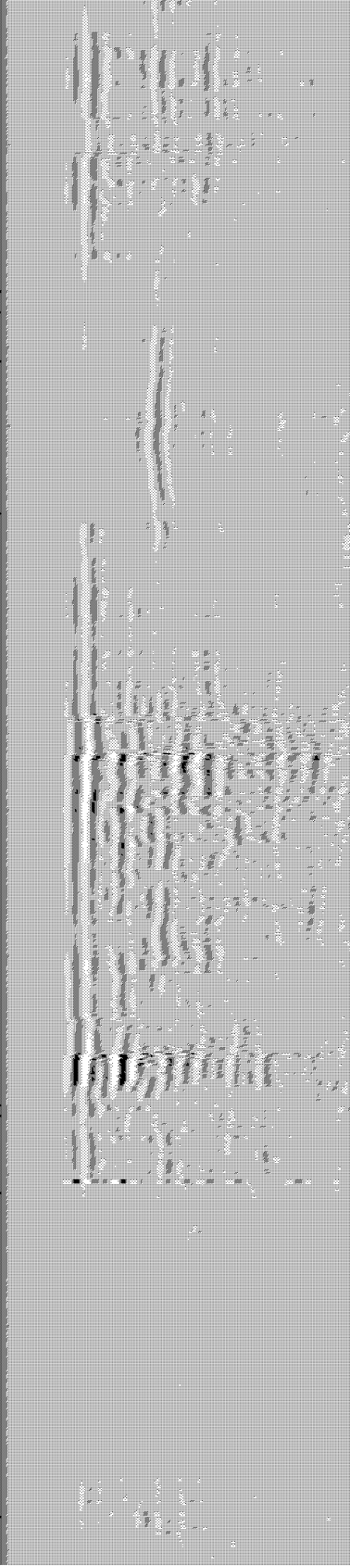
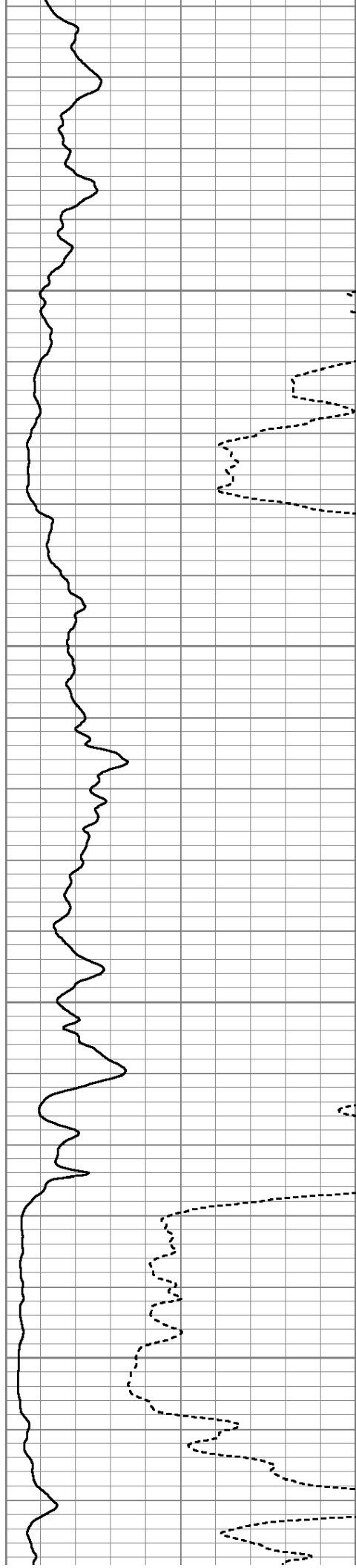


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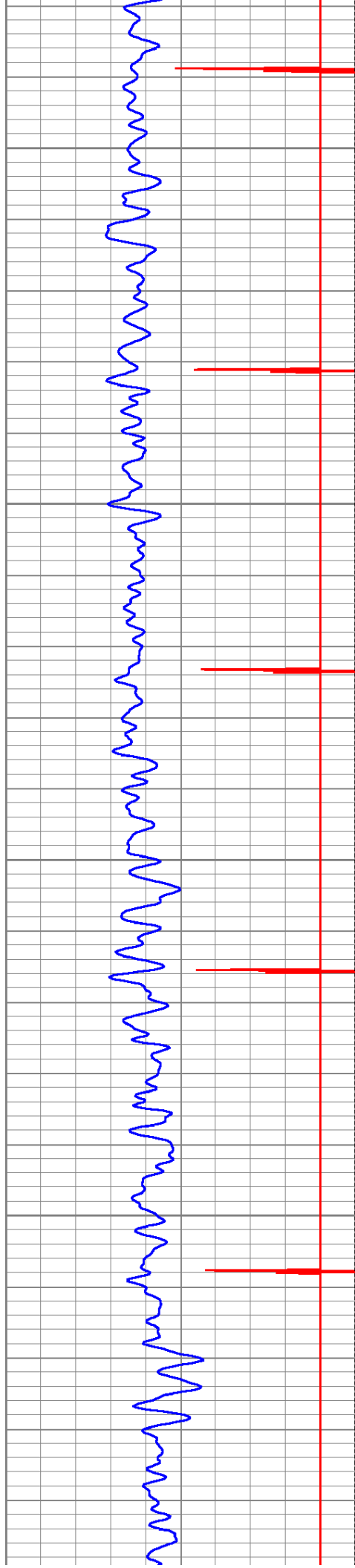
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1900

1950







2000

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2100

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