



# VDL CCL GAMMA-RAY CEMENT BOND LOG

Pioneer Energy Services

Company ENCANA OIL & GAS (USA) INC  
Well NORTH RINN 0-4-9  
Field WATTENBERG  
County WELD State COLORADO

Location: SHL 1160' FSL & 1133' FWL SWSW  
BHL 2575' FSL & 50' FWL  
API # : 05123338930000  
SEC 9 TWP 2N RGE 68W  
Permanent Datum GL Elevation 4866'  
Log Measured From KB  
Drilling Measured From KB  
Other Services  
K.B. 4879'  
D.F. 4879'  
G.L. 4866'

Company ENCANA OIL & GAS (USA) INC  
Well NORTH RINN 0-4-9  
Field WATTENBERG  
County WELD  
State COLORADO

Date

8/8/13

Run Number

ONE

Depth Driller

8319'

Depth Logger

8286'

Bottom Logged Interval

8270'

Top Log Interval

3050'

Open Hole Size

7 7/8"

Type Fluid

WATER

Density / Viscosity

NA

Max. Recorded Temp.

224 DEG. F

Estimated Cement Top

3250'

Time Well Ready

NA

Time Logger on Bottom

NA

Equipment Number

1

Location

FT MORGAN

Recorded By

TODD YOUNG

Witnessed By

TOM MAJORS

Run Number

Bit

From

To

Size

Weight

From

To

Size

Wgt/Ft

Prot. String

4.5"

Production String

11.6#

Liner

SURFACE

TD

Bottom

<<< Fold Here >>>


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.

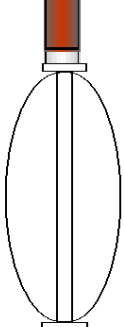

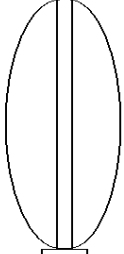
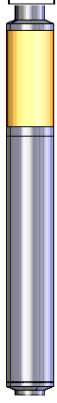
## Comments

SO # 2-204238

NO OPEN HOLE LOG

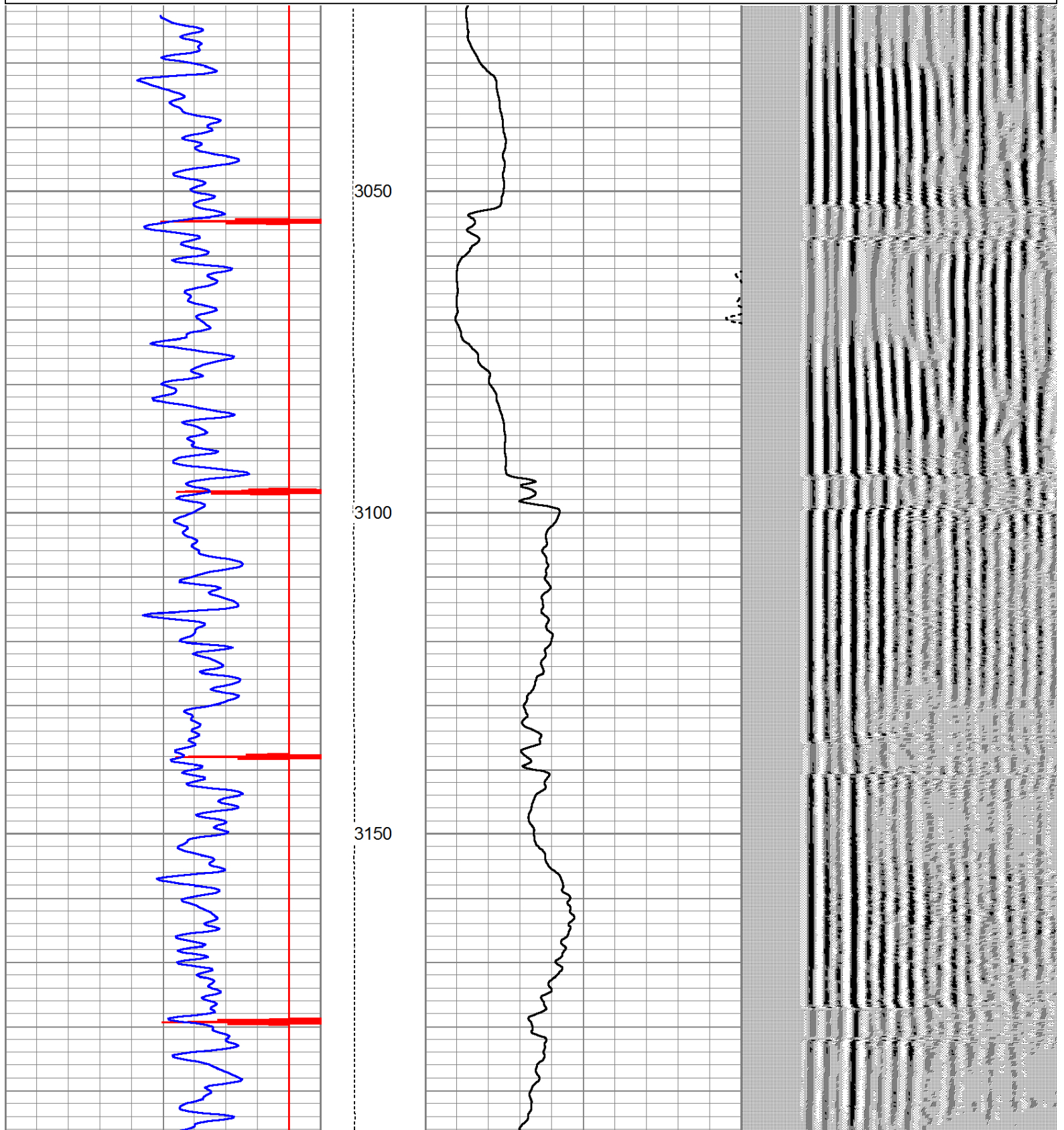
THANK YOU FOR USING  
PIONEER ENERGY SERVICES

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

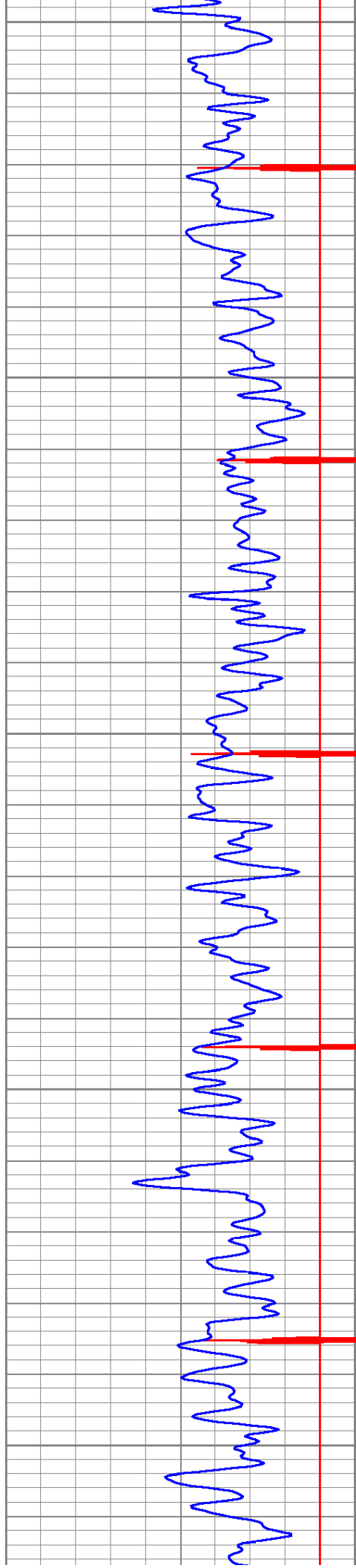
				SDSCENT Centralizer for testing	3.00	3.25	20.00
WVF3	11.58						
WVF5	10.58			CBL-Probe (050215) 2.75 digital probe	8.75	2.75	106.50
				SDSCENT Centralizer for testing	3.00	3.25	20.00
GR	1.13			GR-probe 2.75 (51013) PROBE_GCT	4.33	2.75	100.00
<div> <div>Dataset:</div> <div>north rinn 0-4-9.db: field/well/run1/pass3</div> <div>Total Length:</div> <div>21.00 ft</div> <div>Total Weight:</div> <div>246.50 lb</div> <div>O.D.</div> <div>3.25 in</div> </div>							

Database File: north rinn 0-4-9.db  
Dataset Pathname: pass3  
Presentation Format: cbl\_dr  
Dataset Creation: Thu Aug 08 13:32:33 2013 by Log SCH 120126  
Charted by: Depth in Feet scaled 1:240

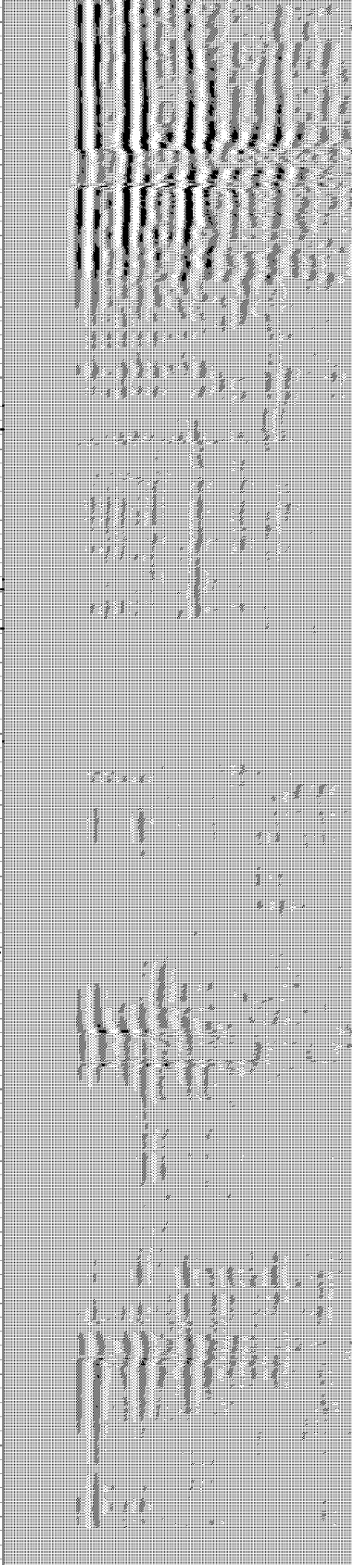
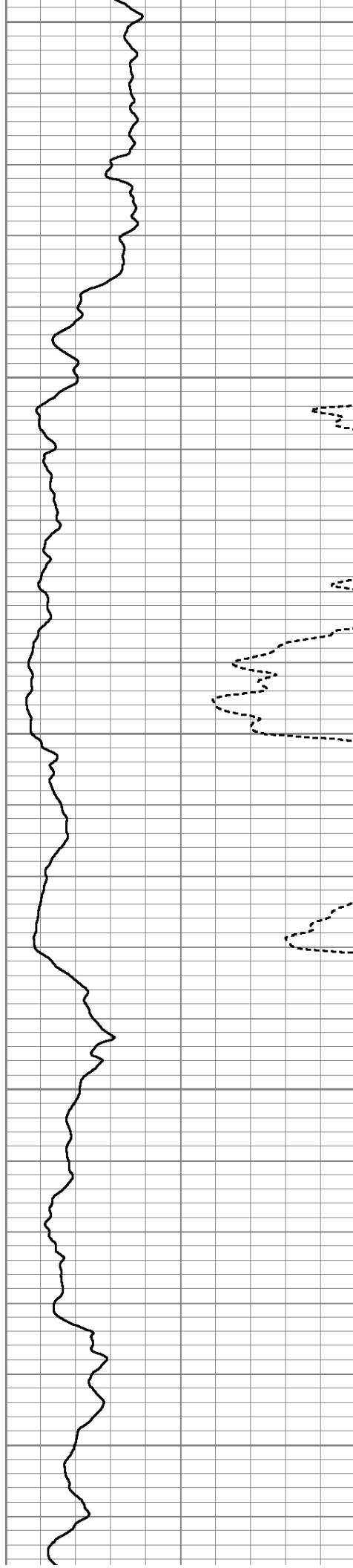
9	Collar Locator	-1	LTEN	0	Amplified Amplitude (mV)	10	200	Variable Density	1200
0	Gamma Ray (GAPI)	200	0	(lb)2000	0	Amplitude (mV)	100		

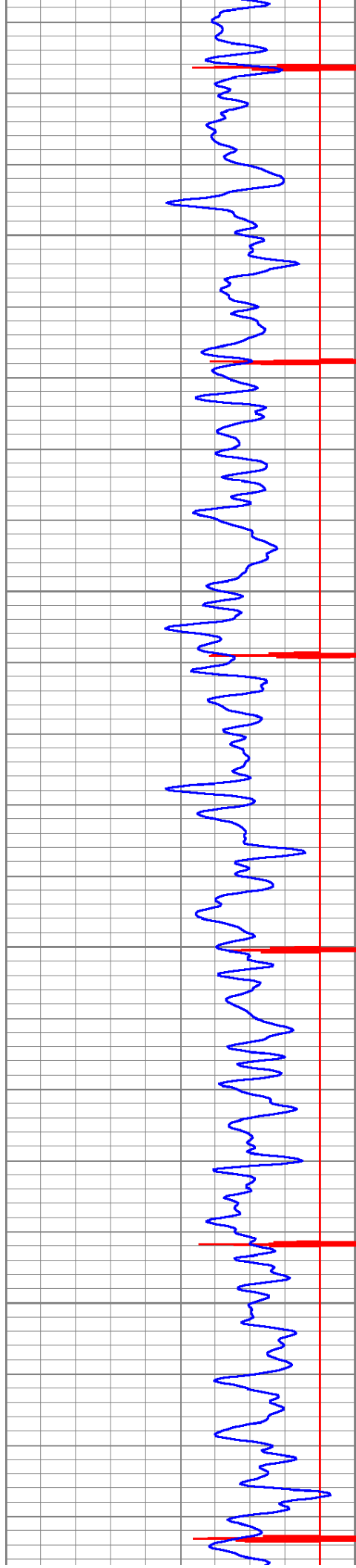






3200  
3250  
3300  
3350  
3400



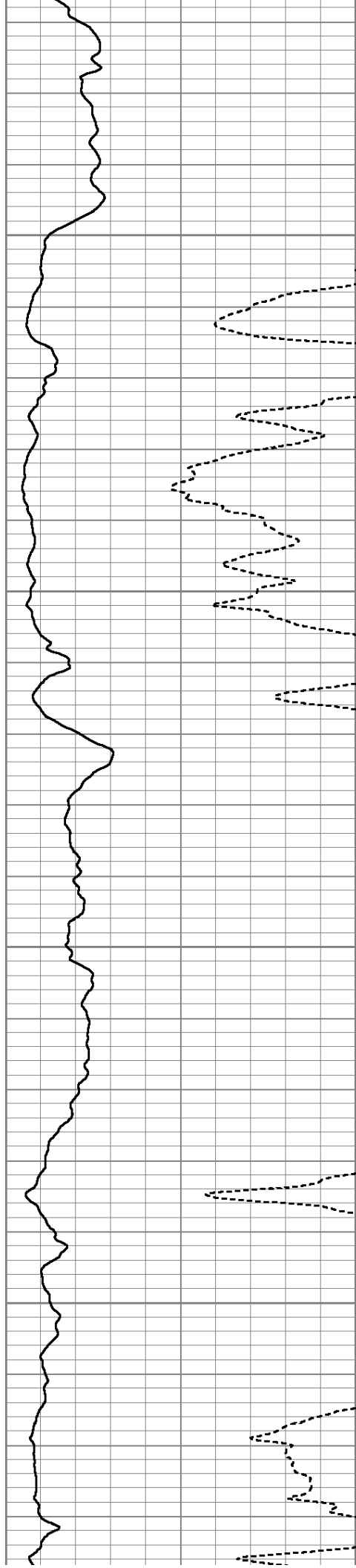


3450

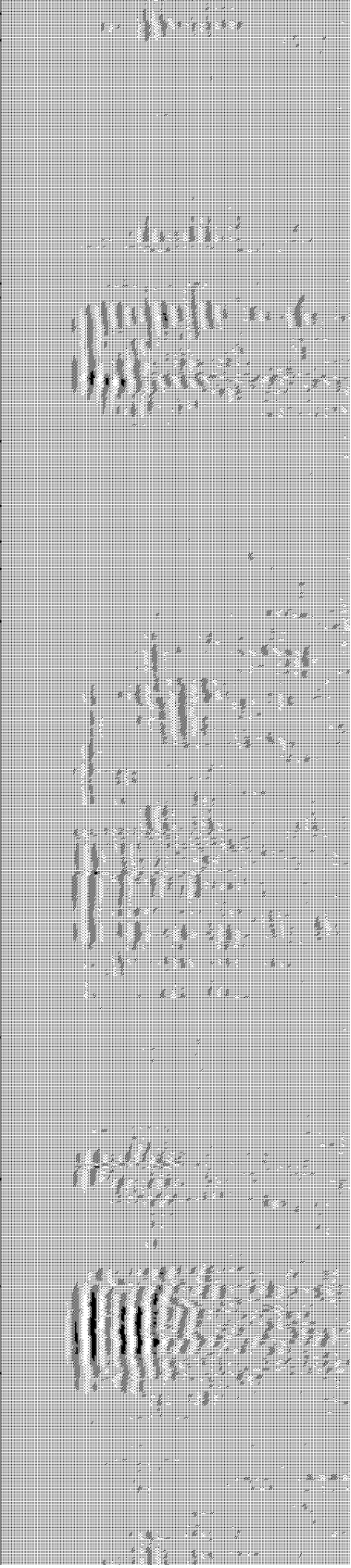
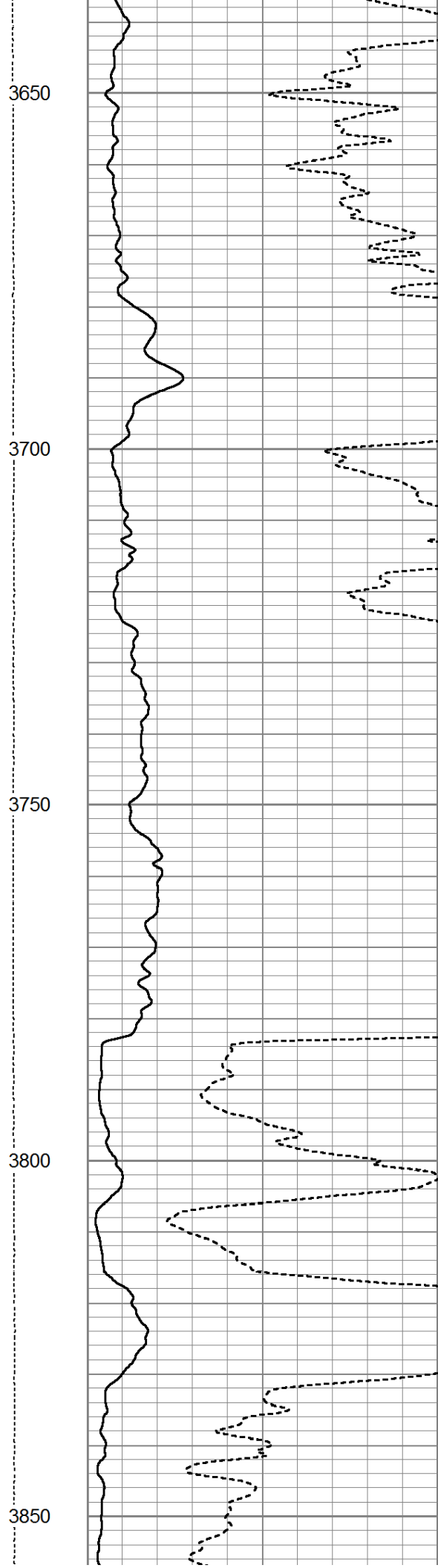
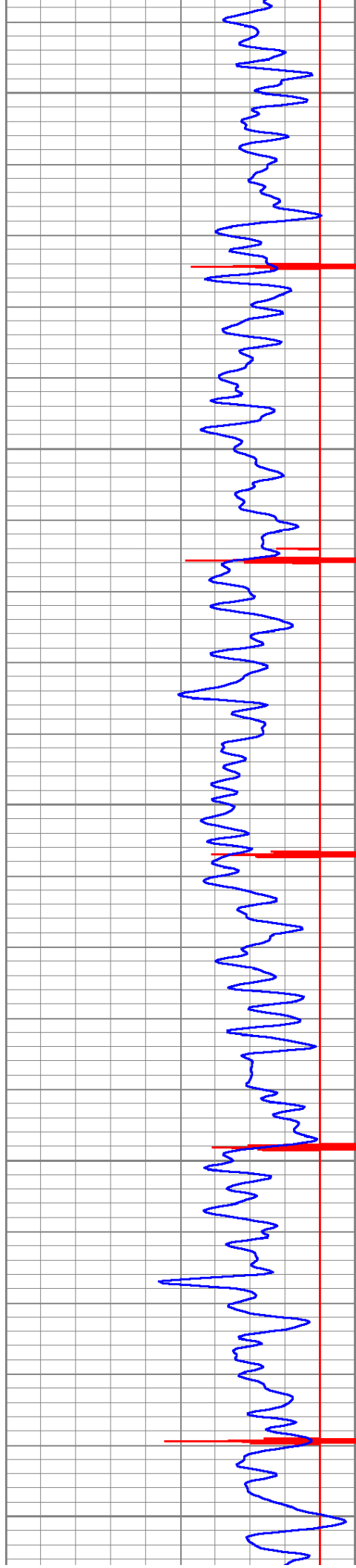
3500

3550

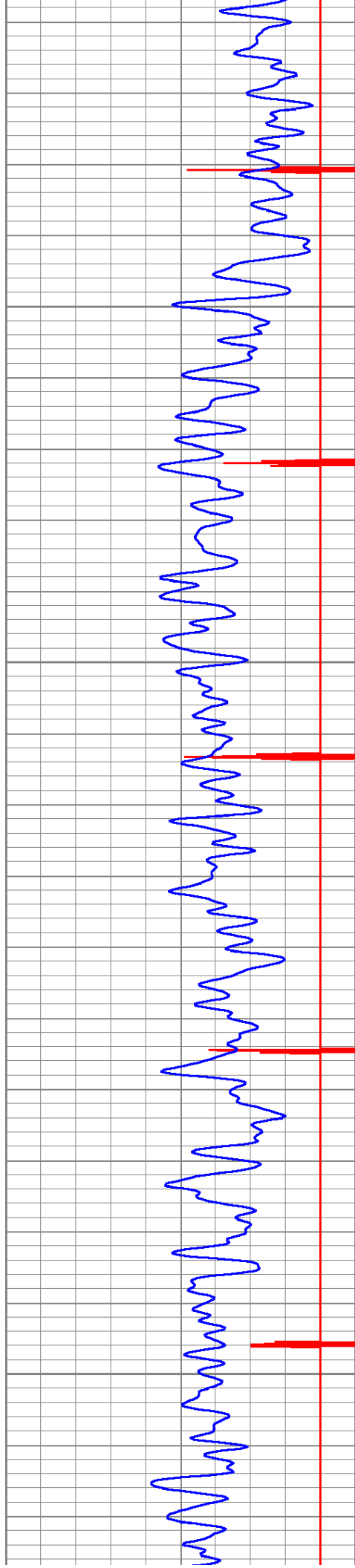
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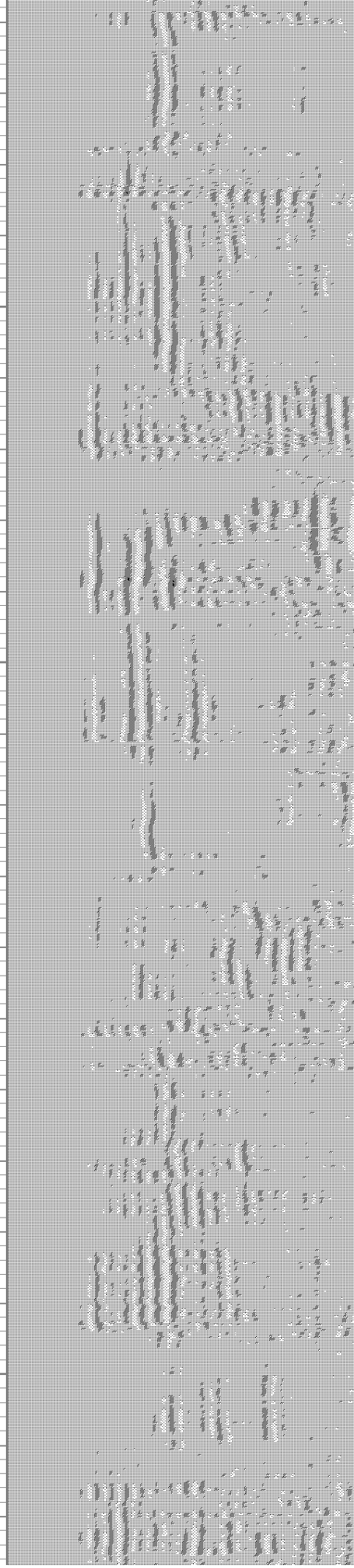
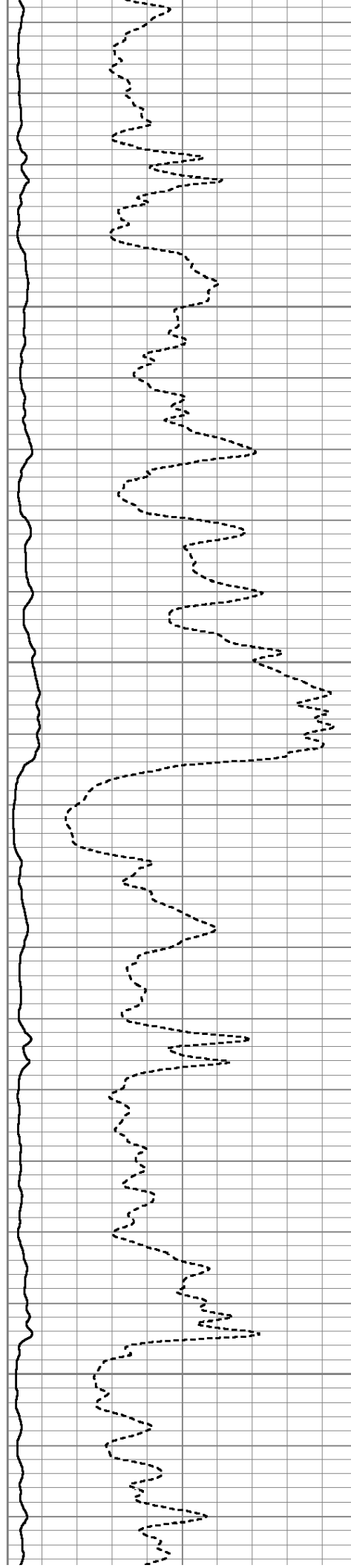


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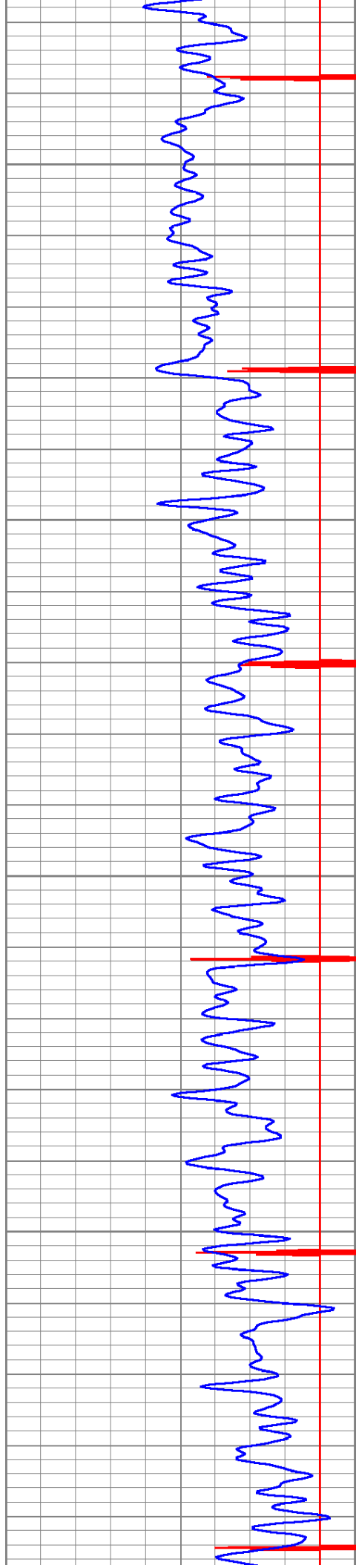
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4000

4050





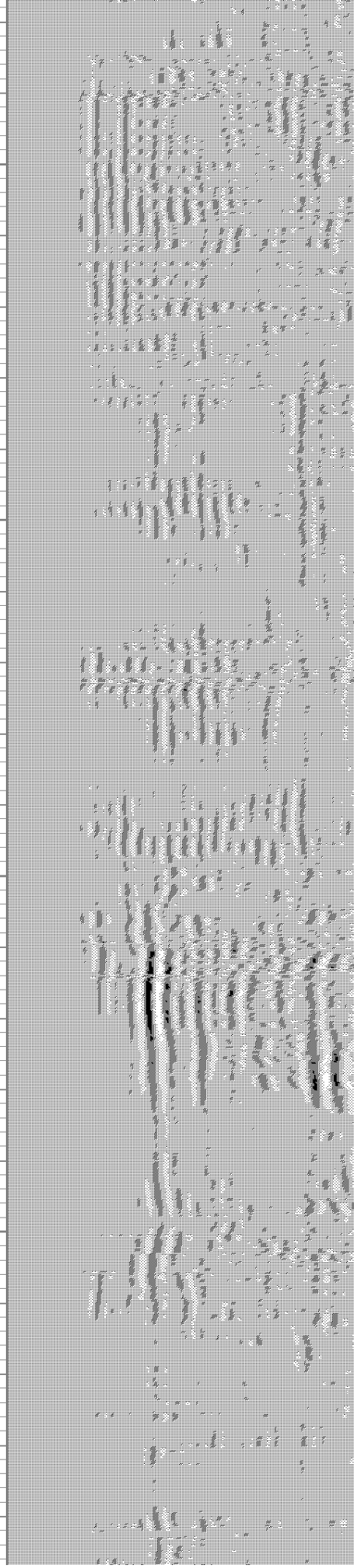
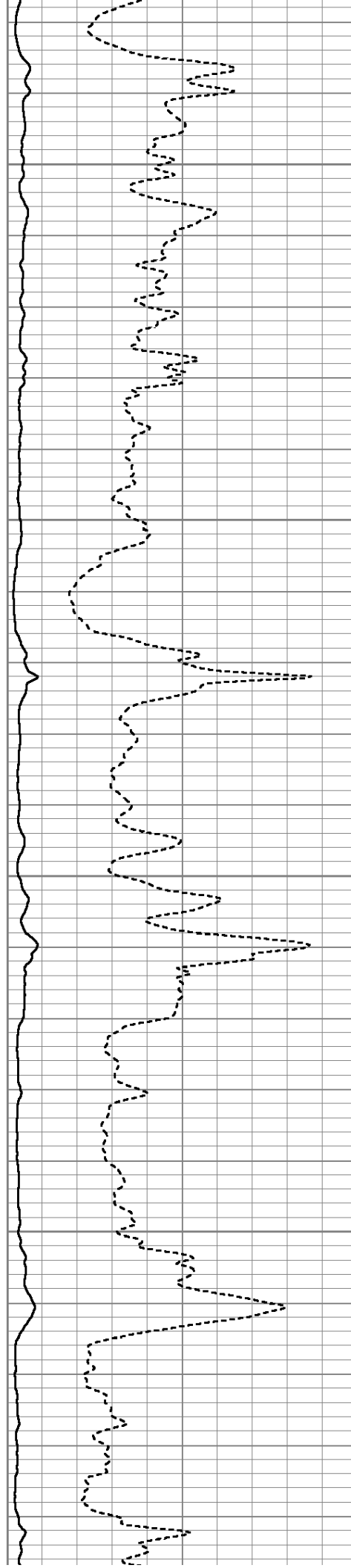


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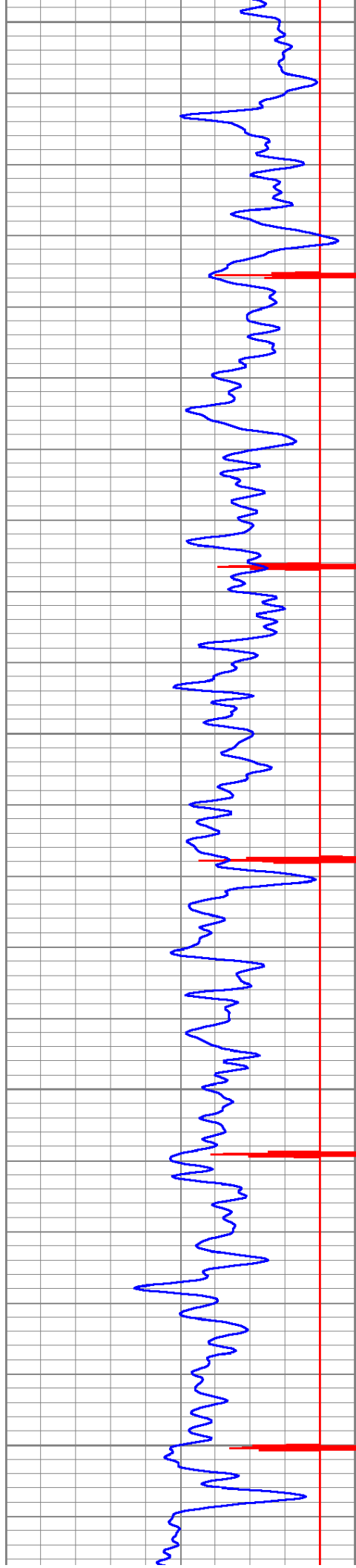
4150

4200

4250







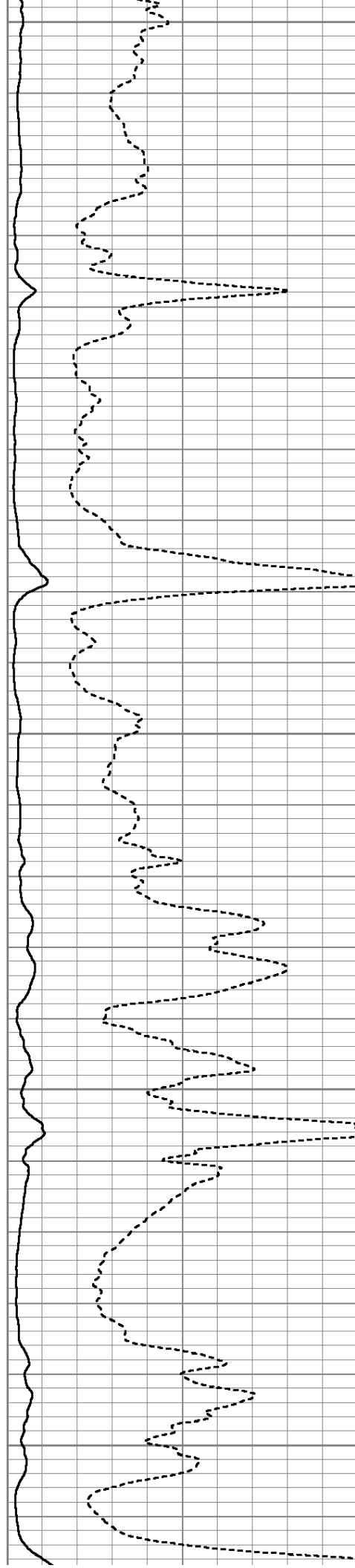
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4350

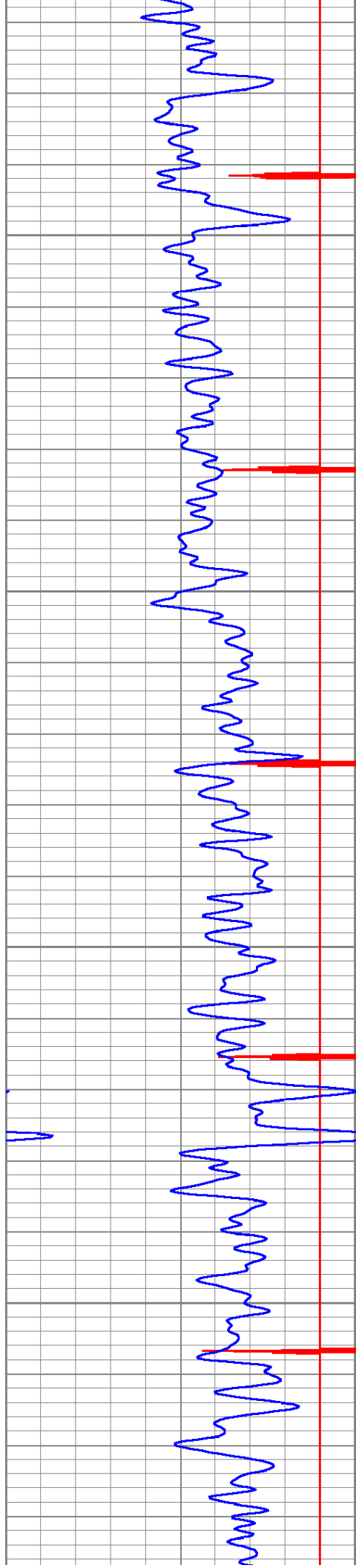
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4450

4500





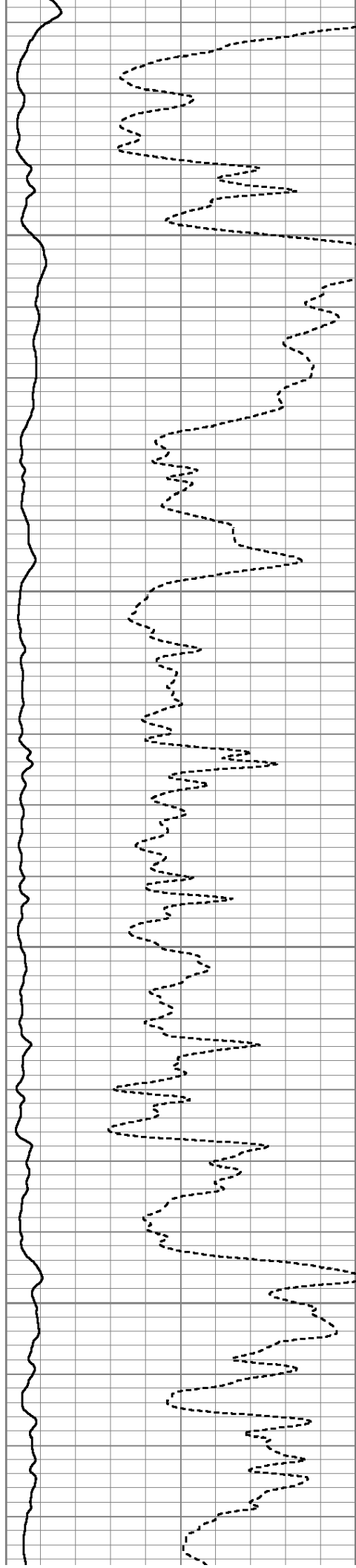


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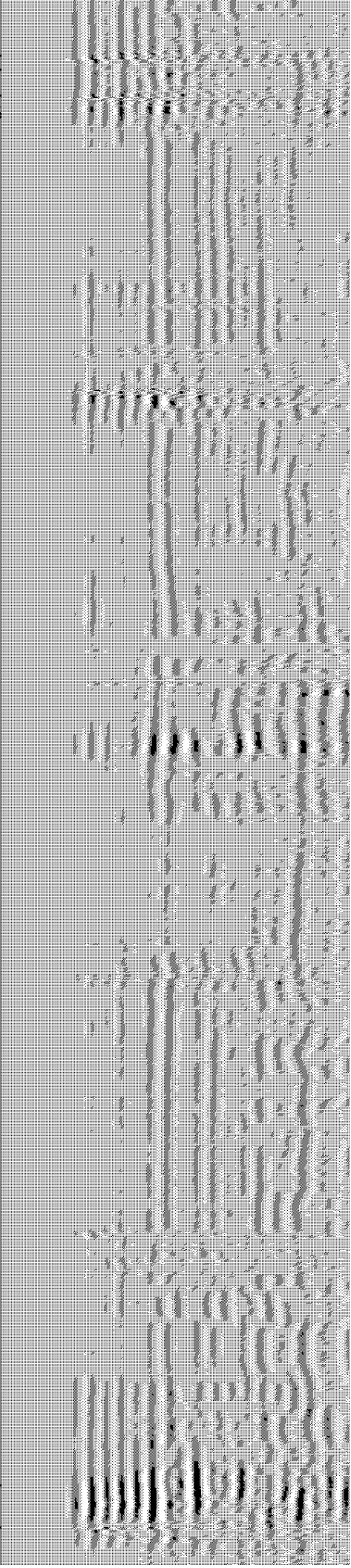
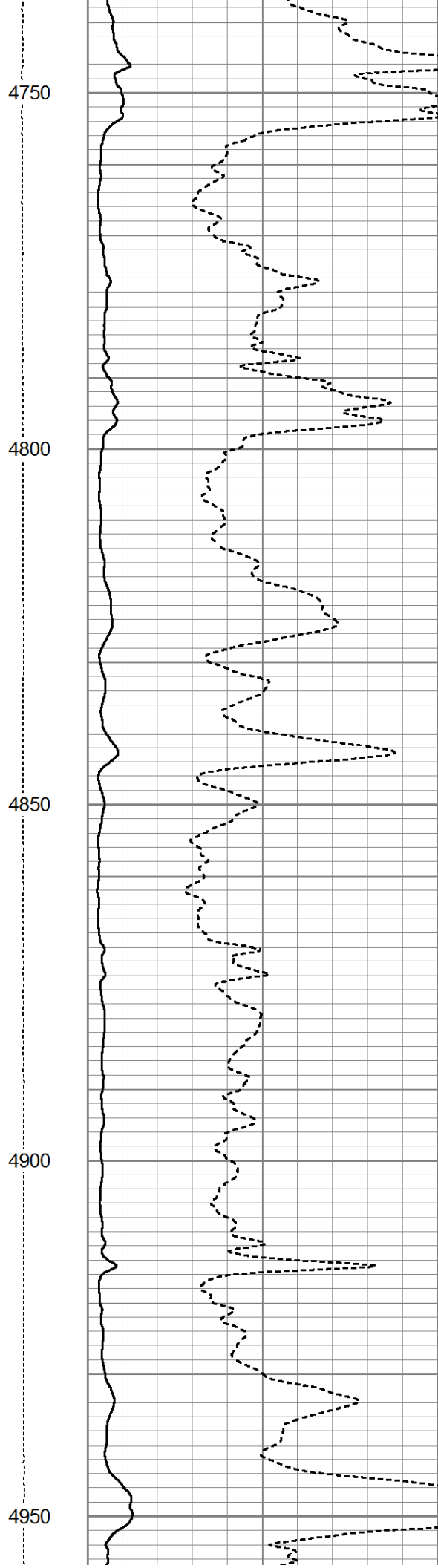
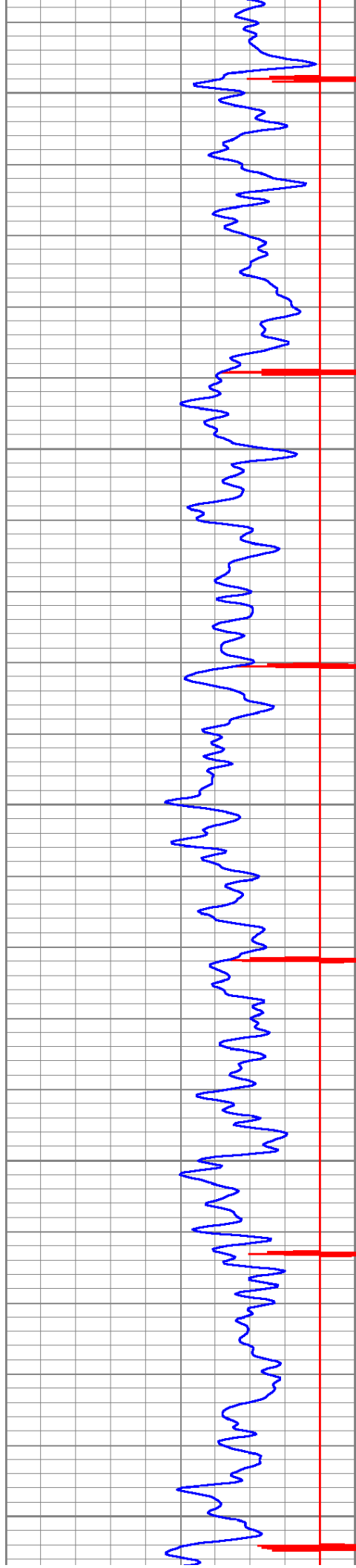
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4650

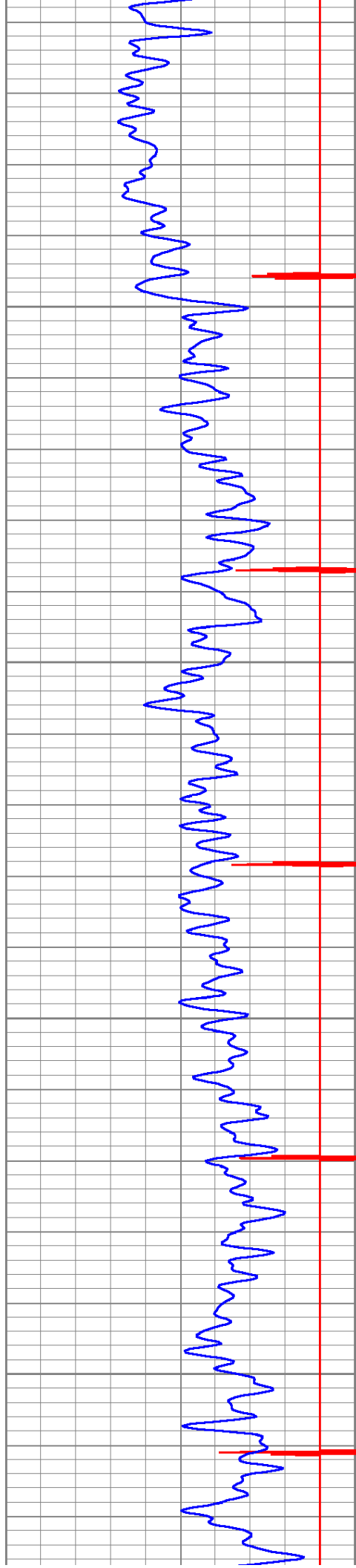
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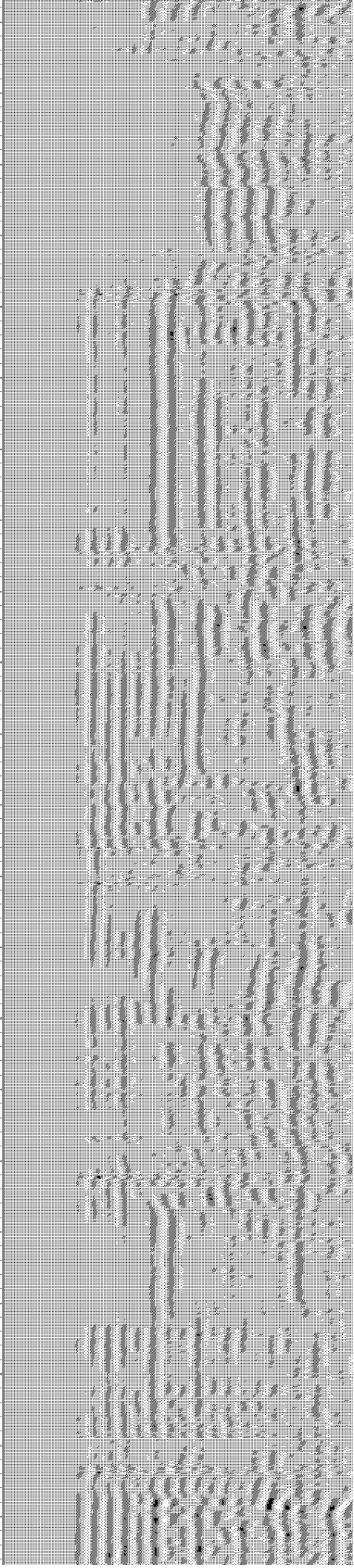
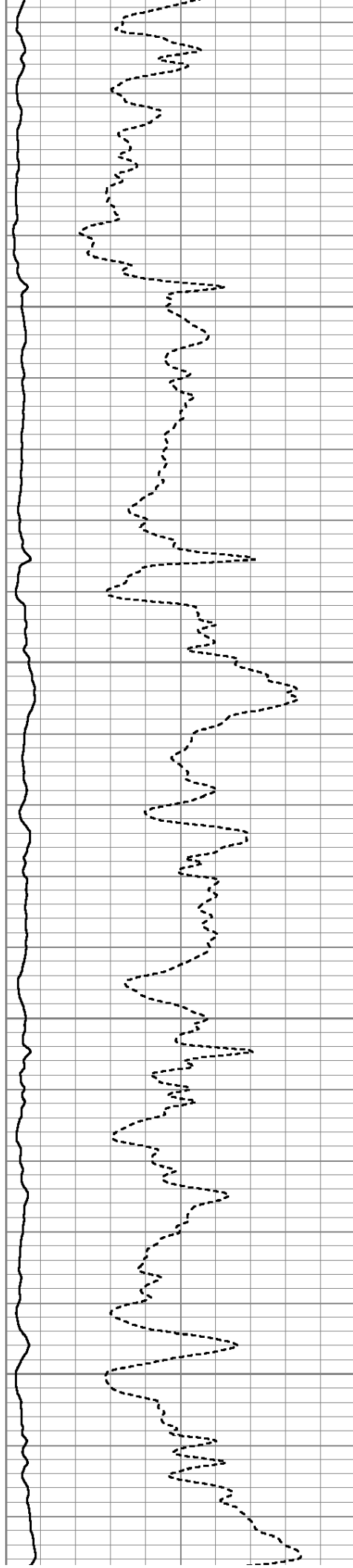




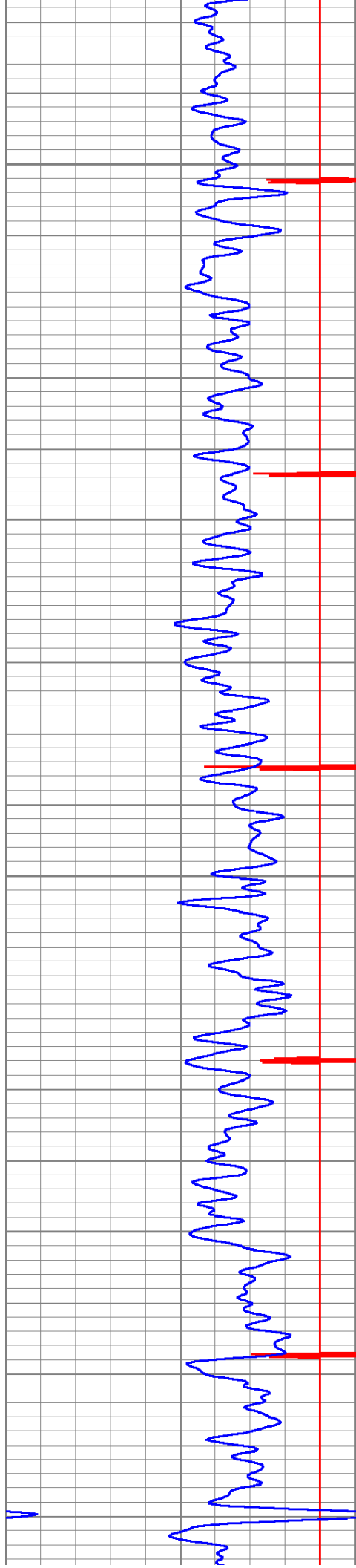




5000  
5050  
5100  
5150





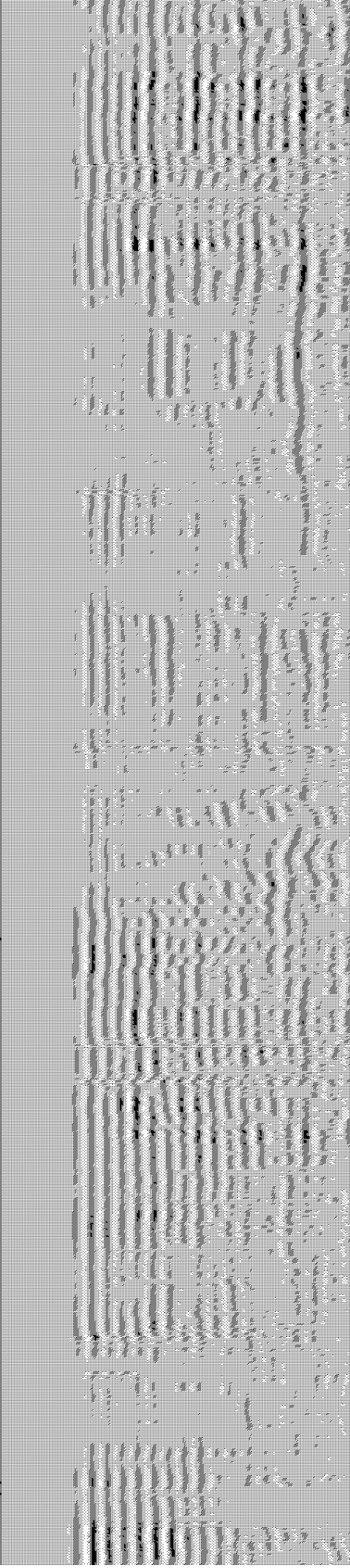
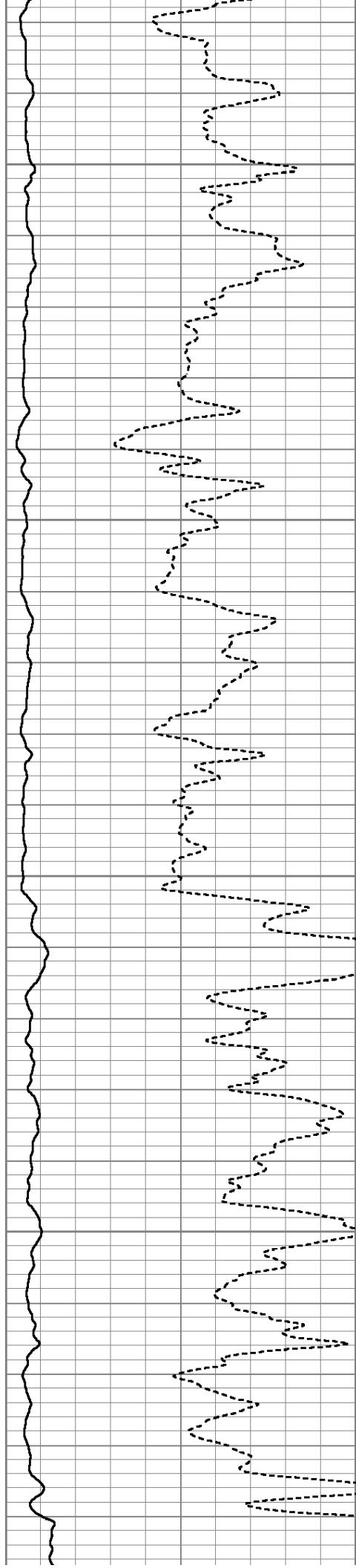


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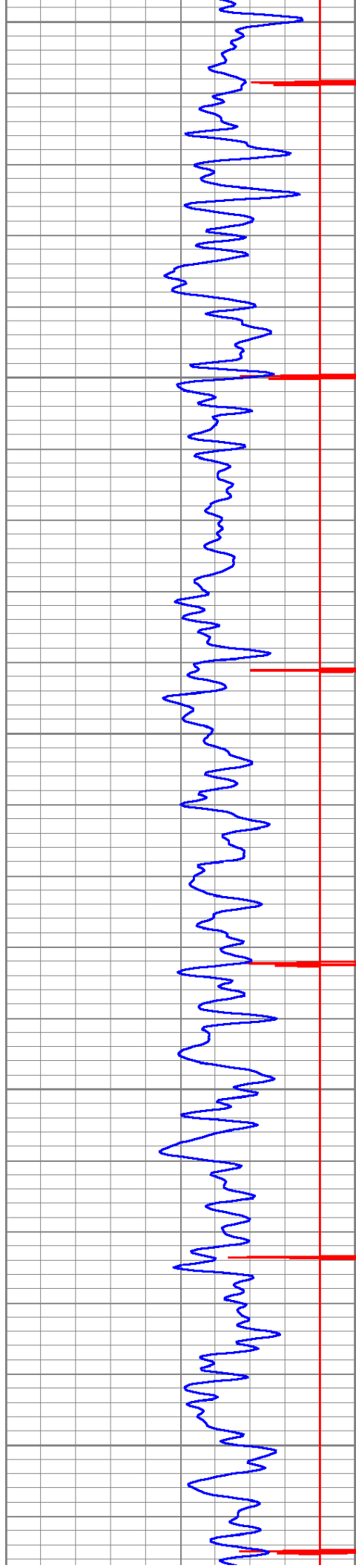
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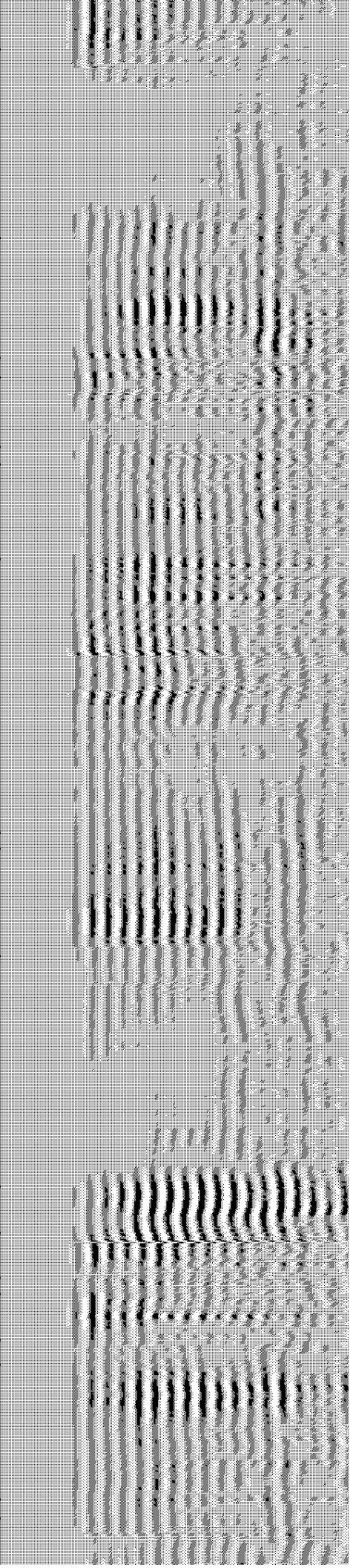
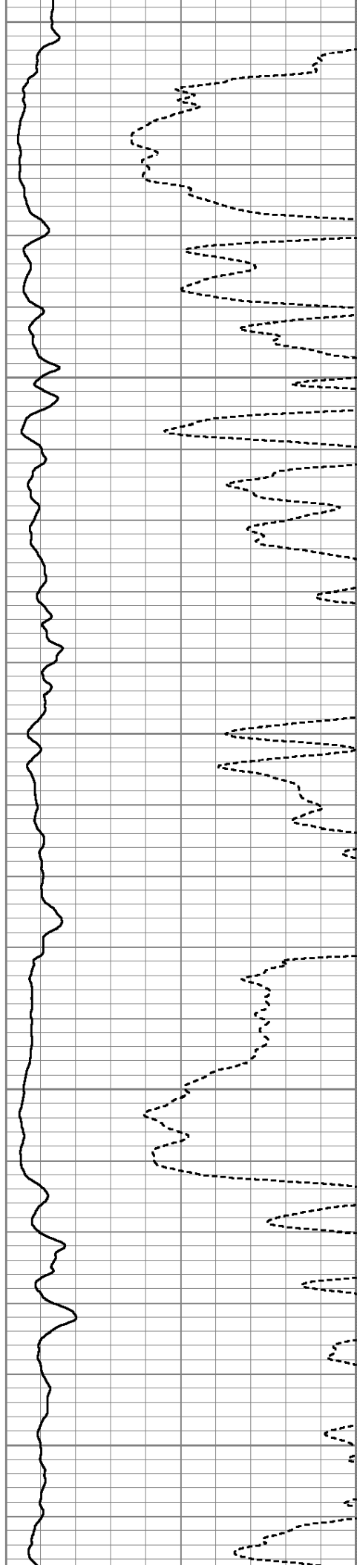
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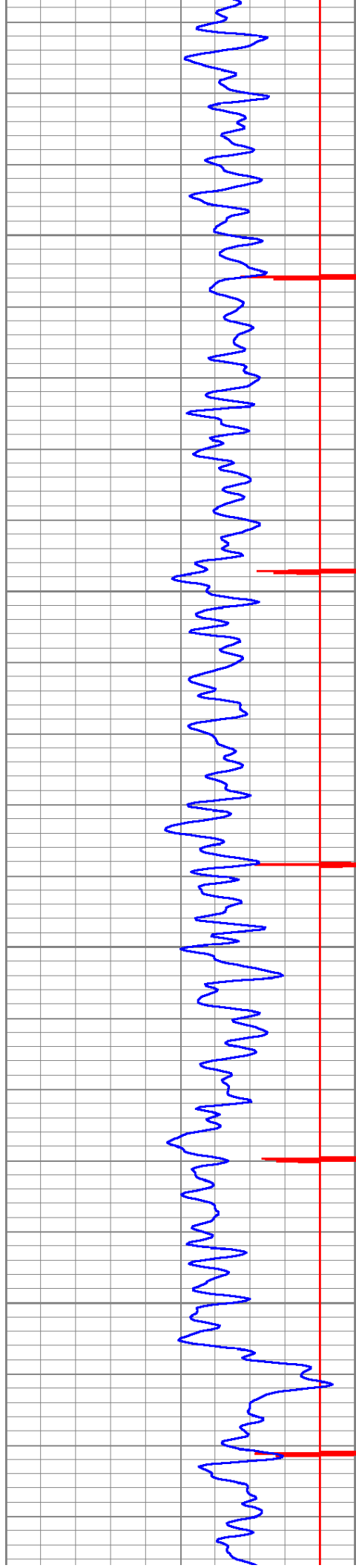




5400  
5450  
5500  
5550  
5600





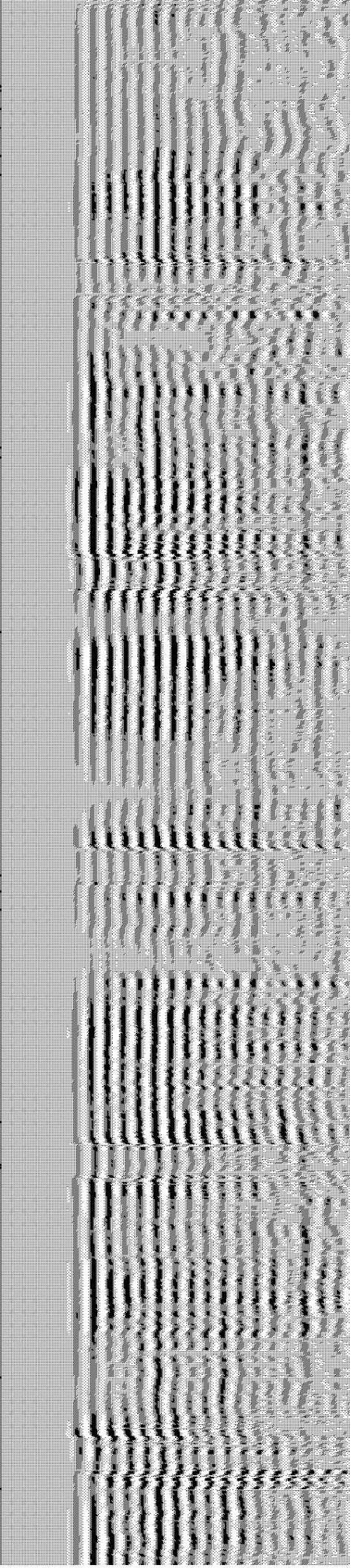
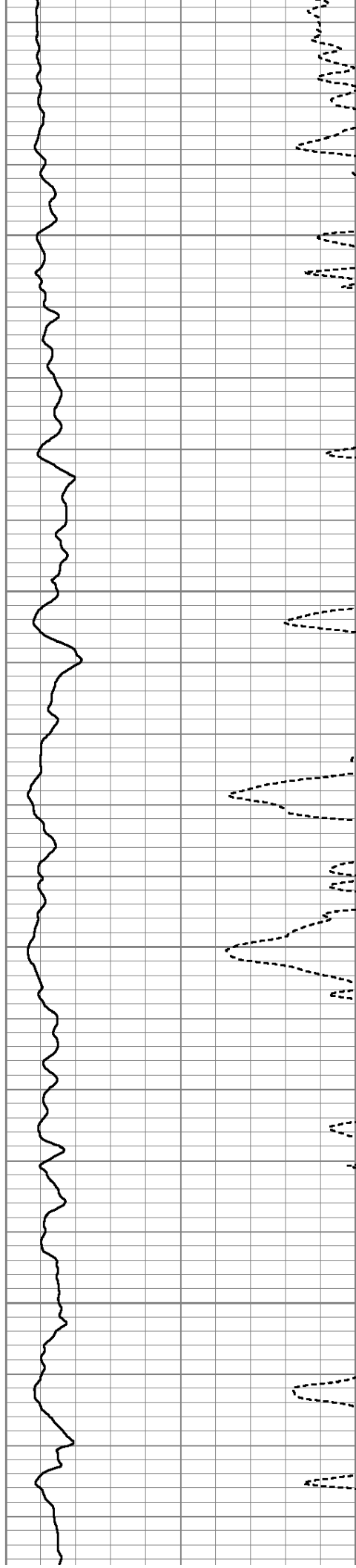


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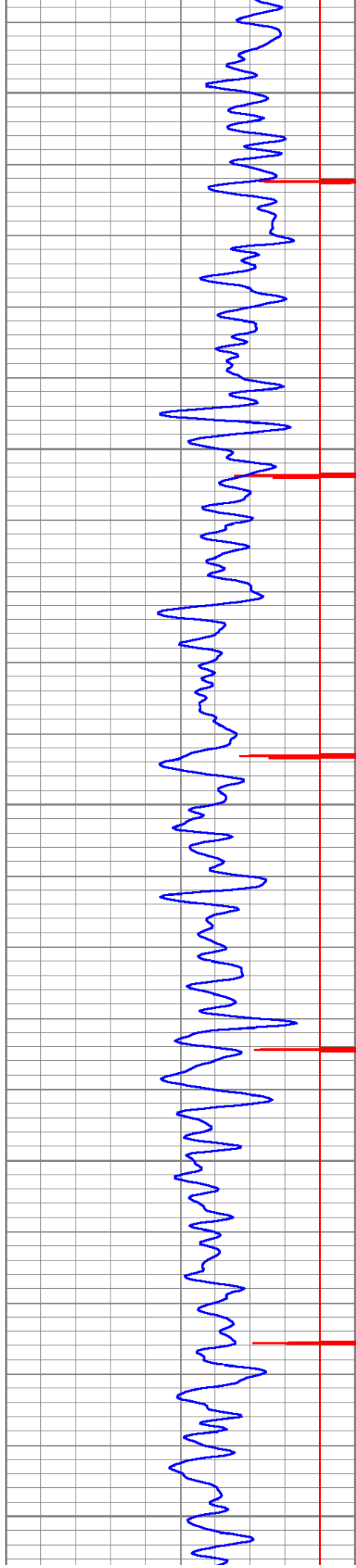
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5800







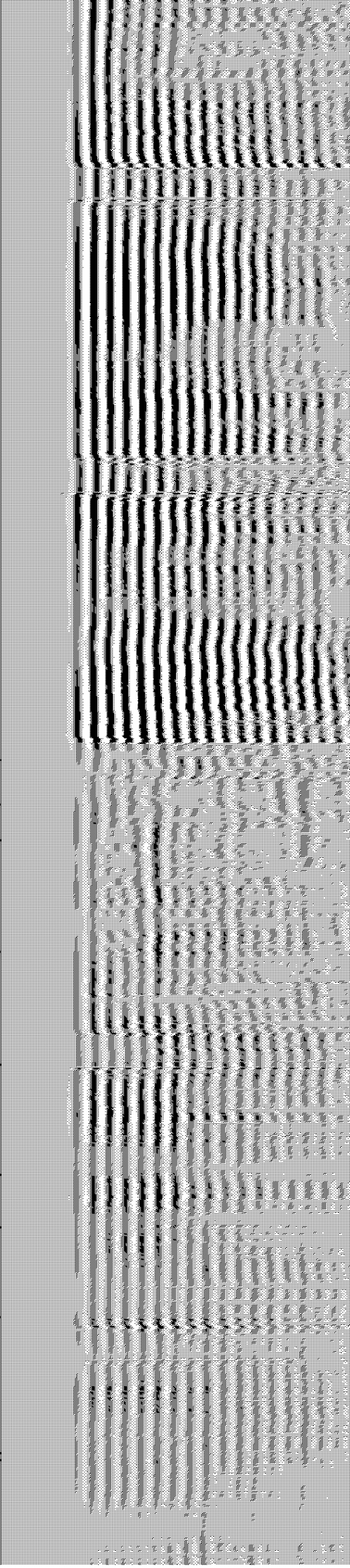
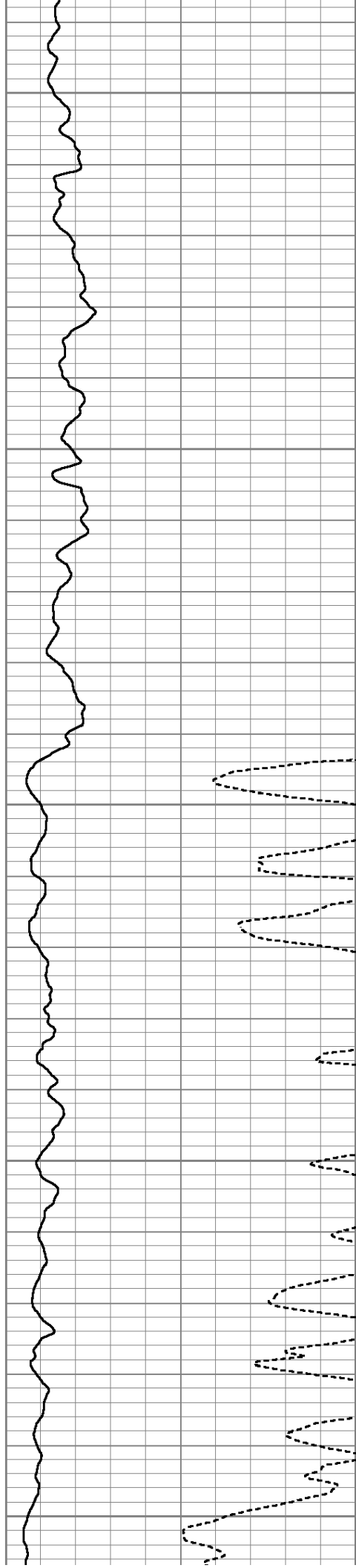
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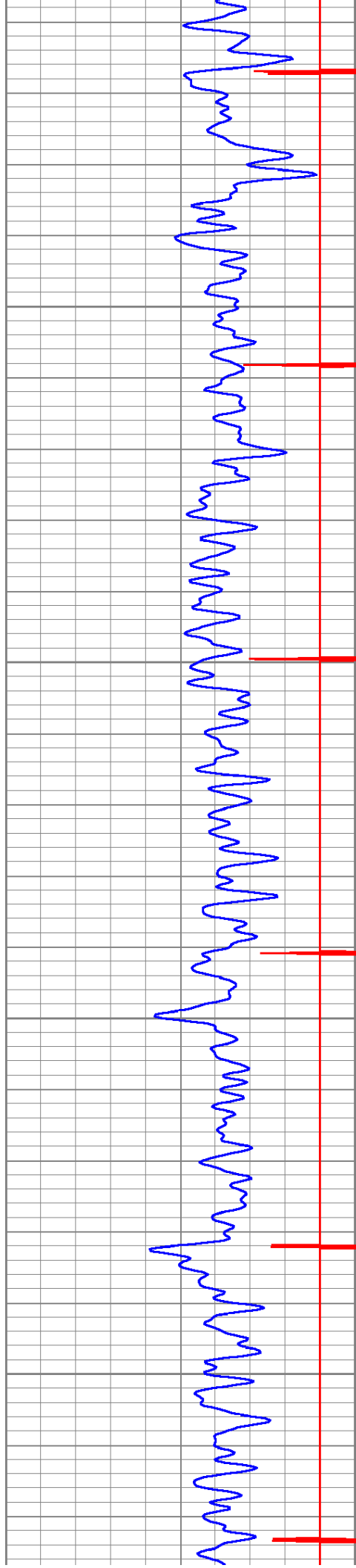
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6000

6050





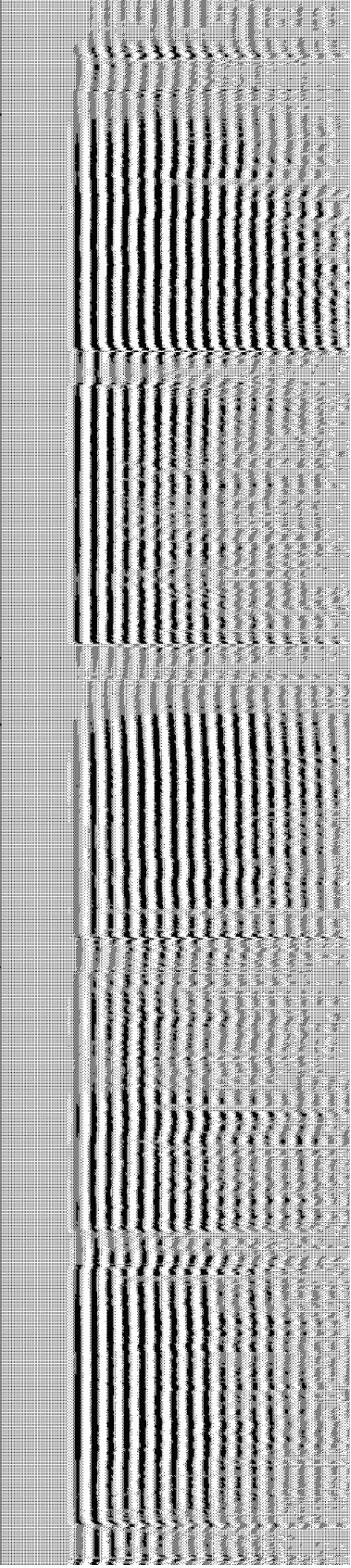
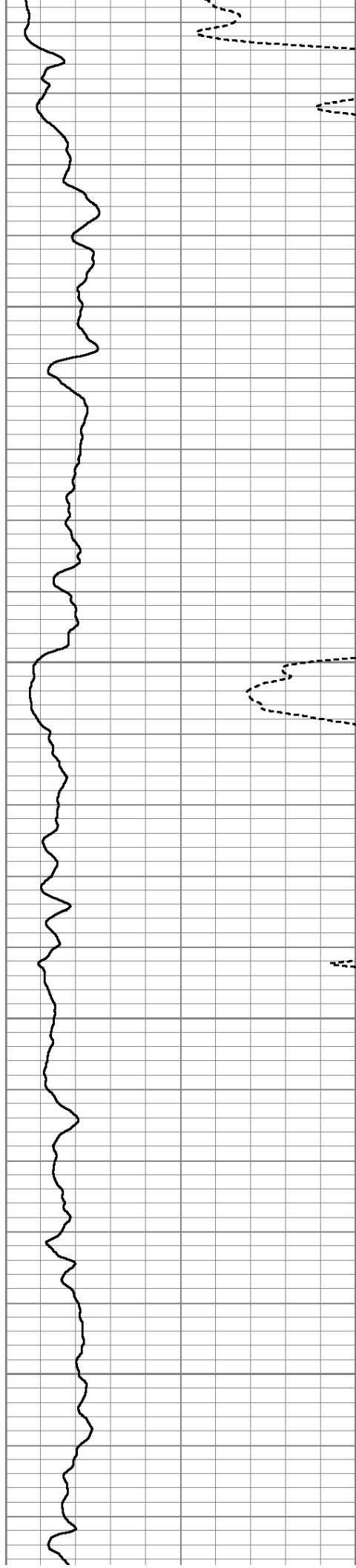


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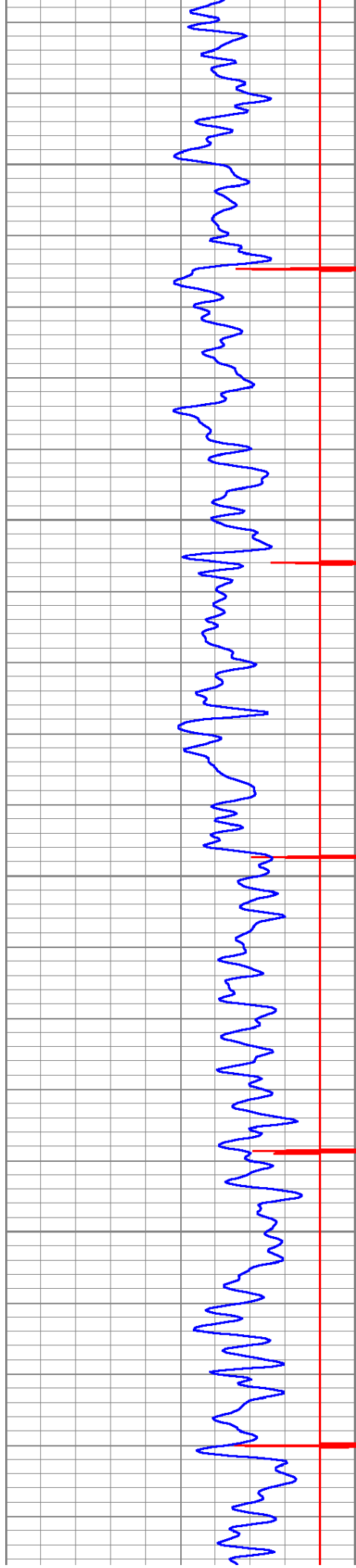
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6200

6250





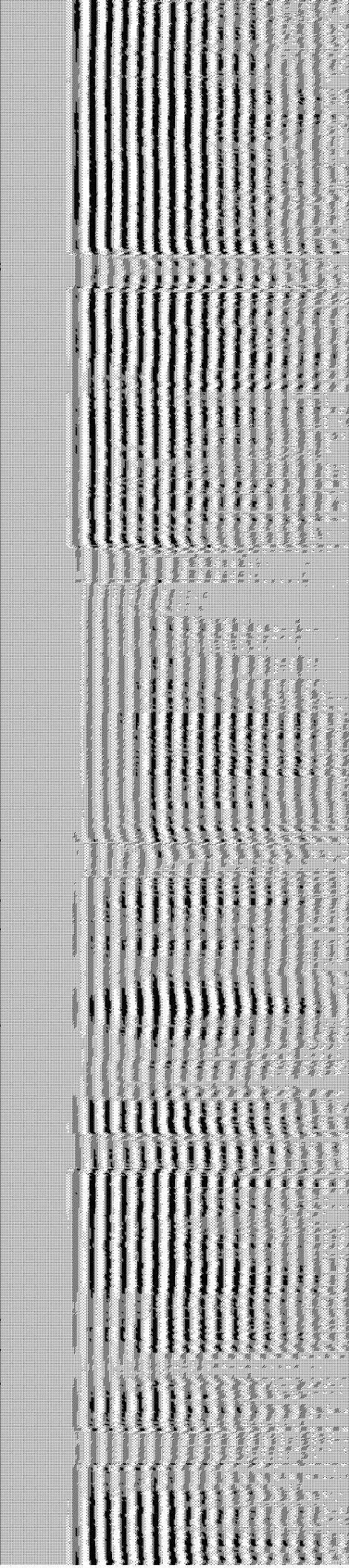
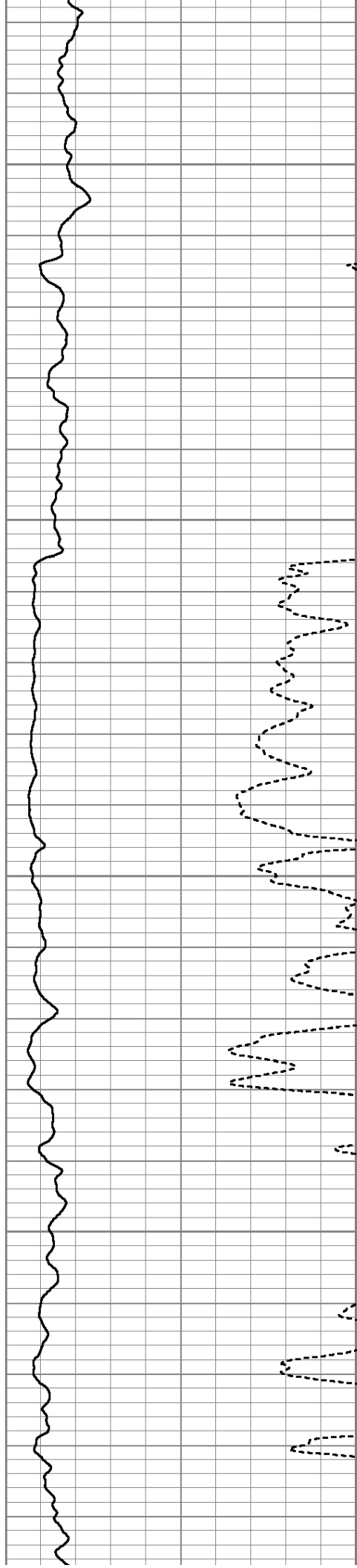


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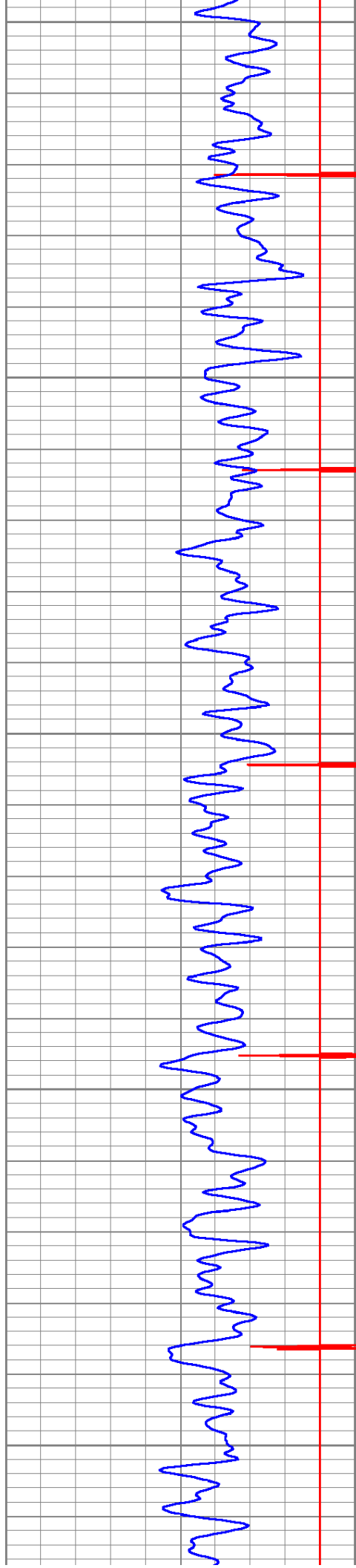
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6400

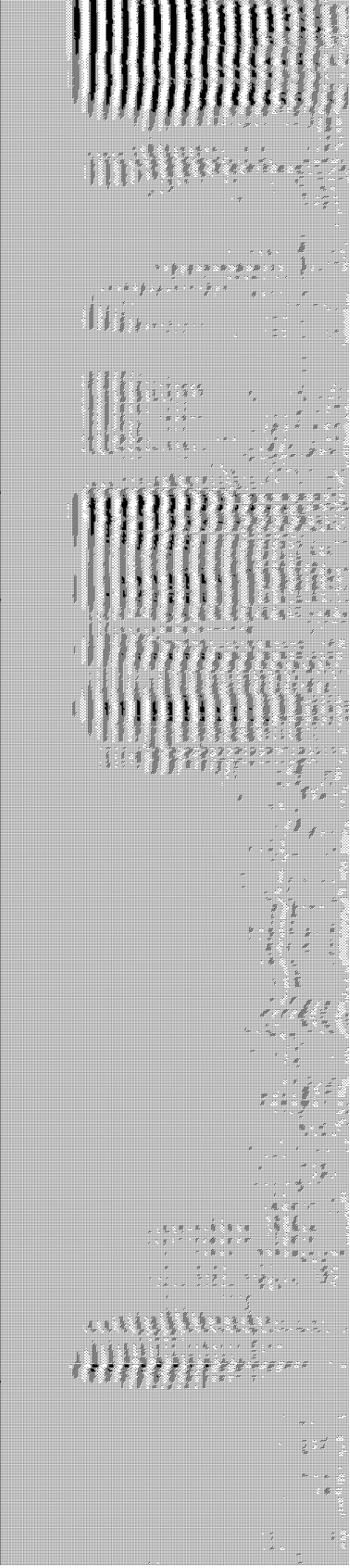
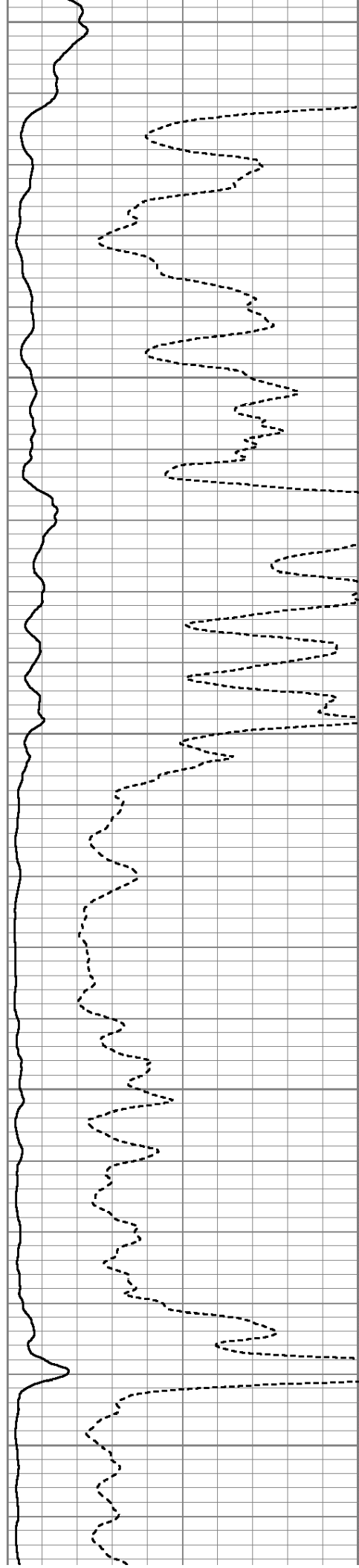
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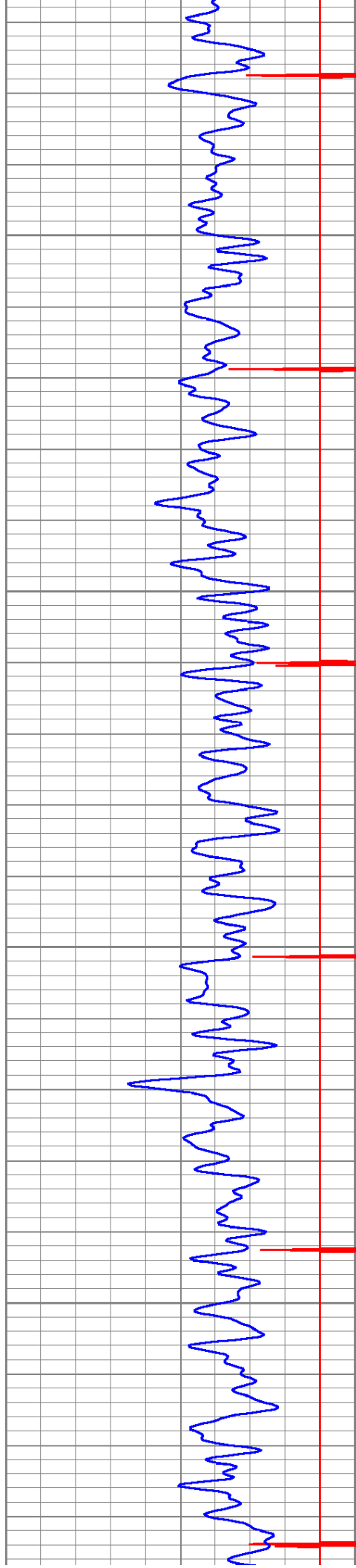






6500  
6550  
6600  
6650  
6700



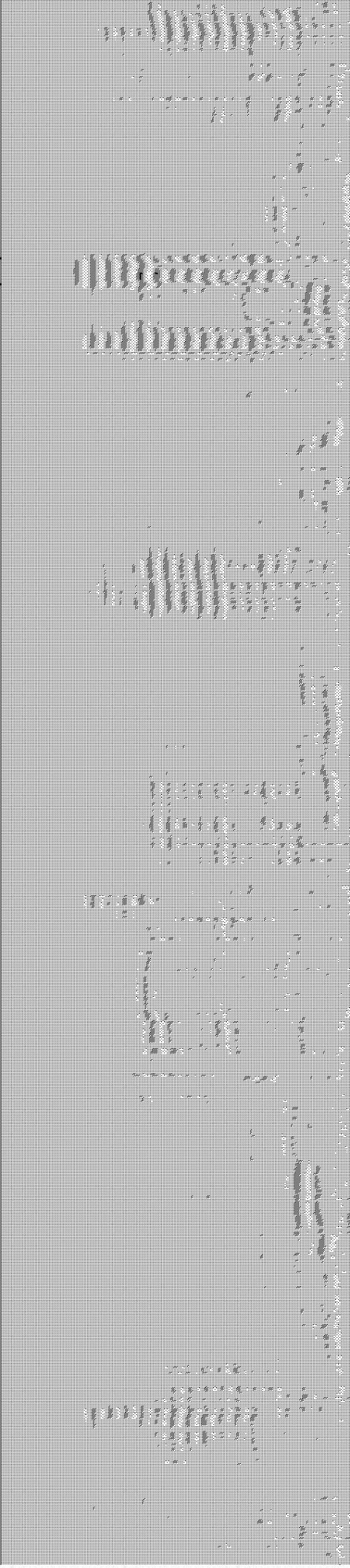
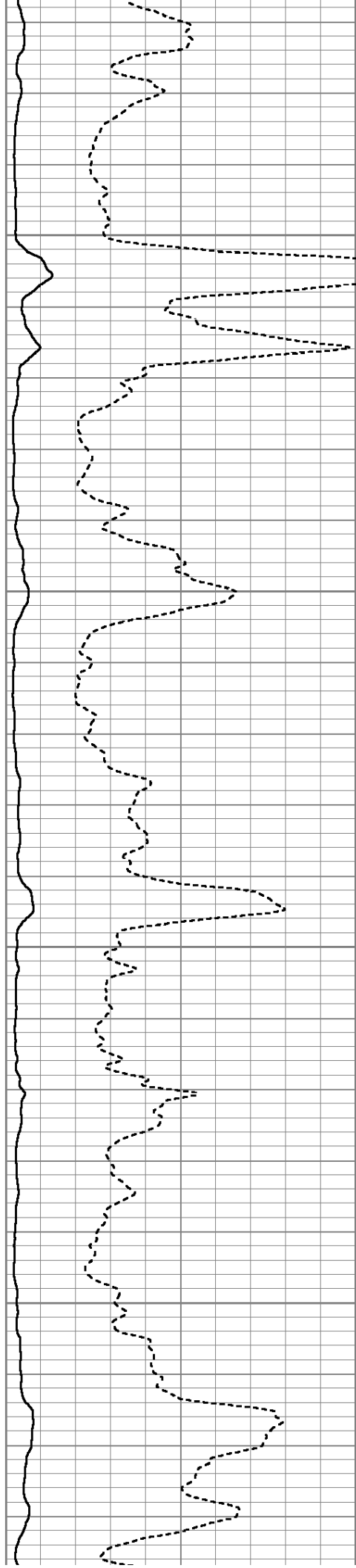


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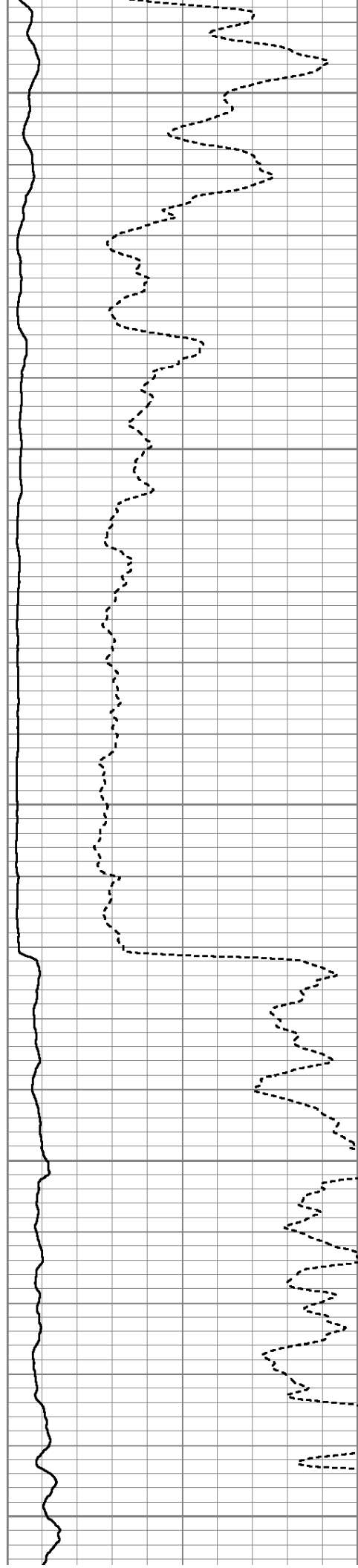
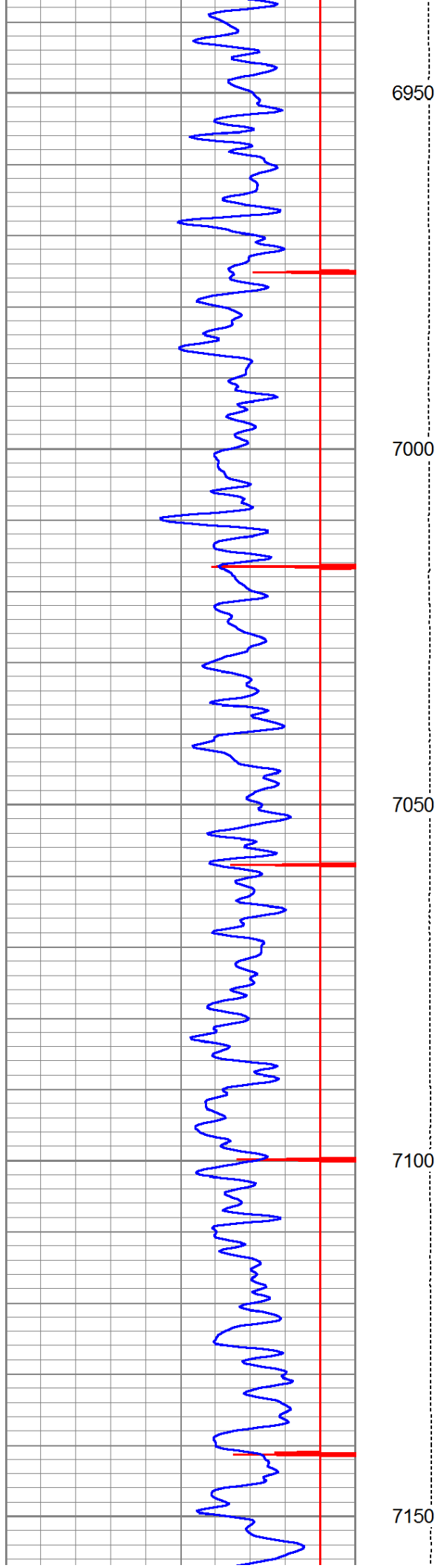
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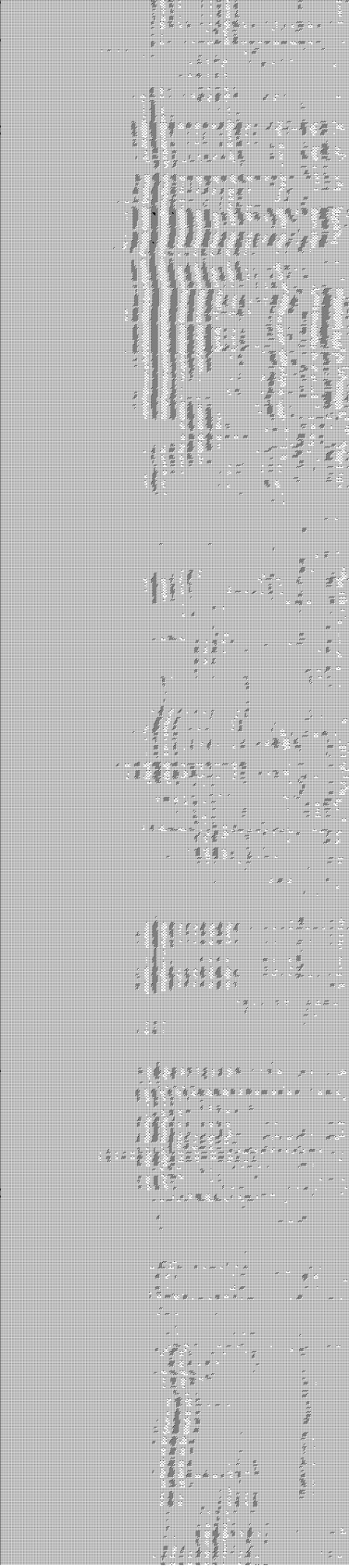
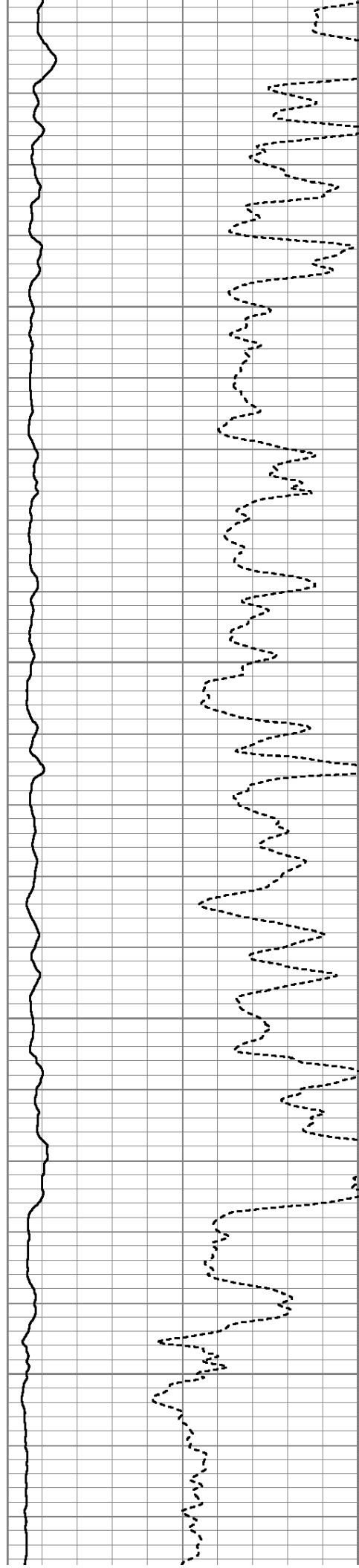
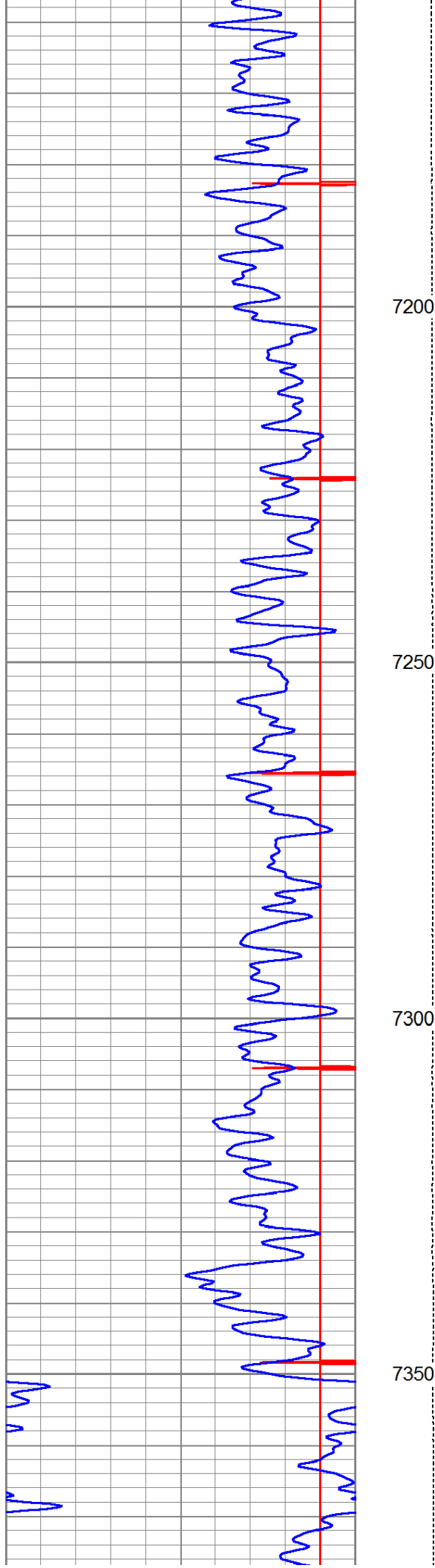
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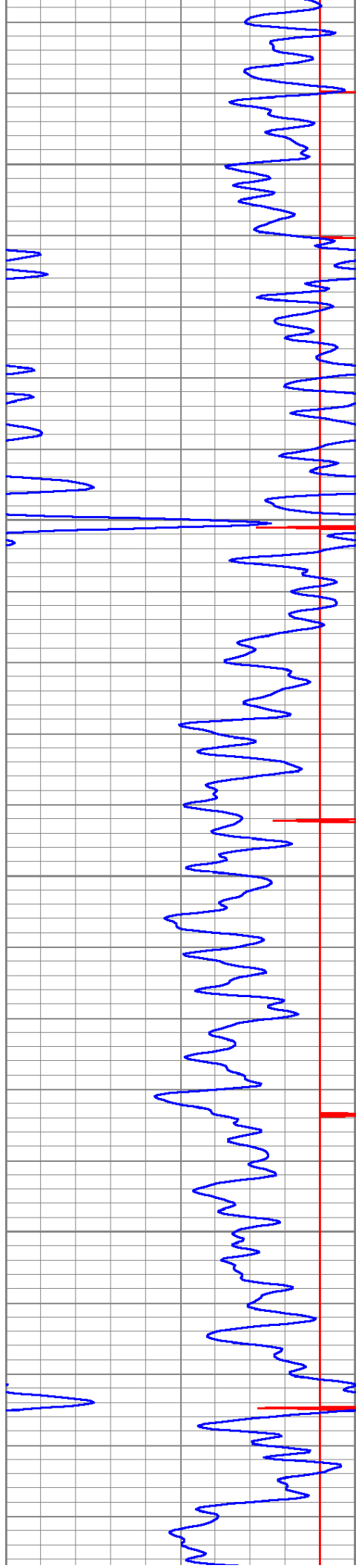










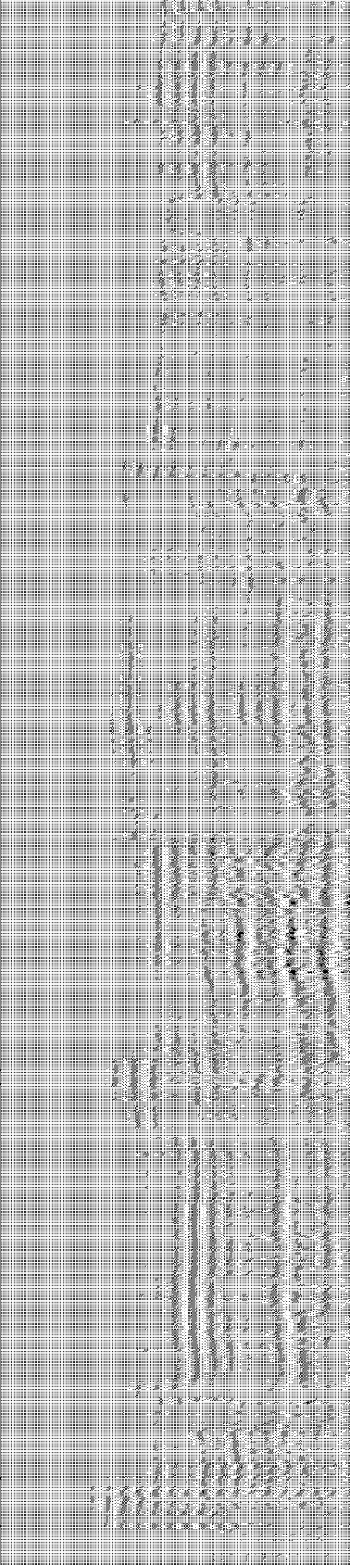
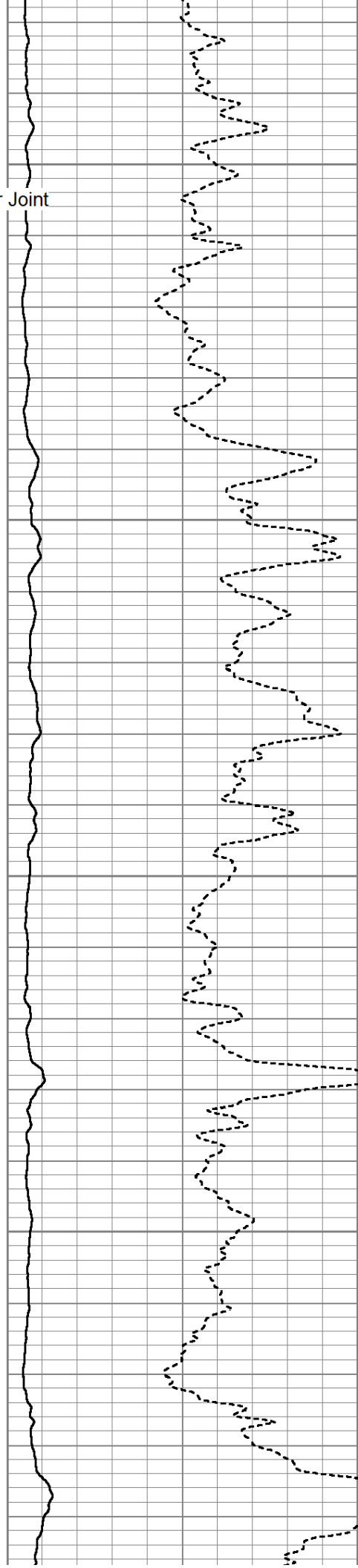


7400  
← Marker Joint

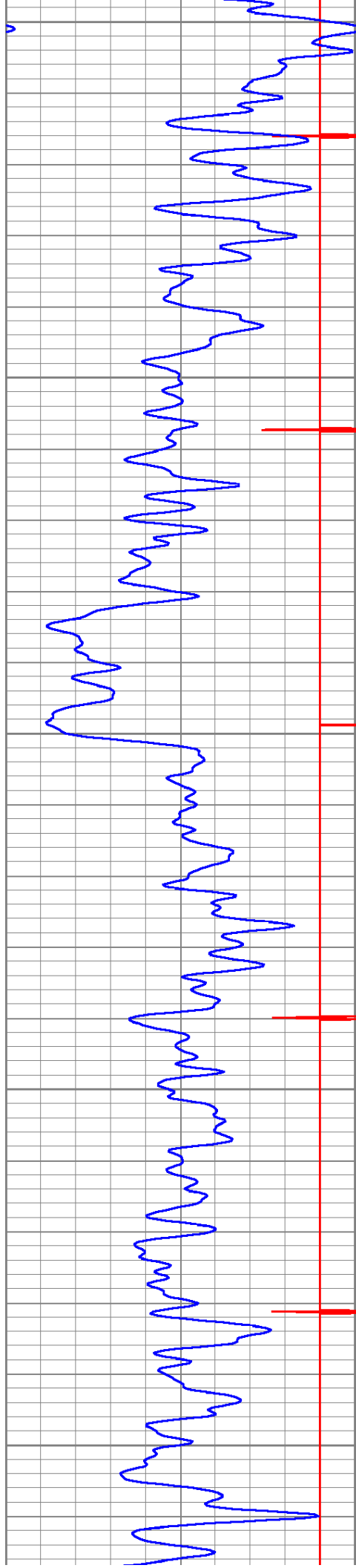
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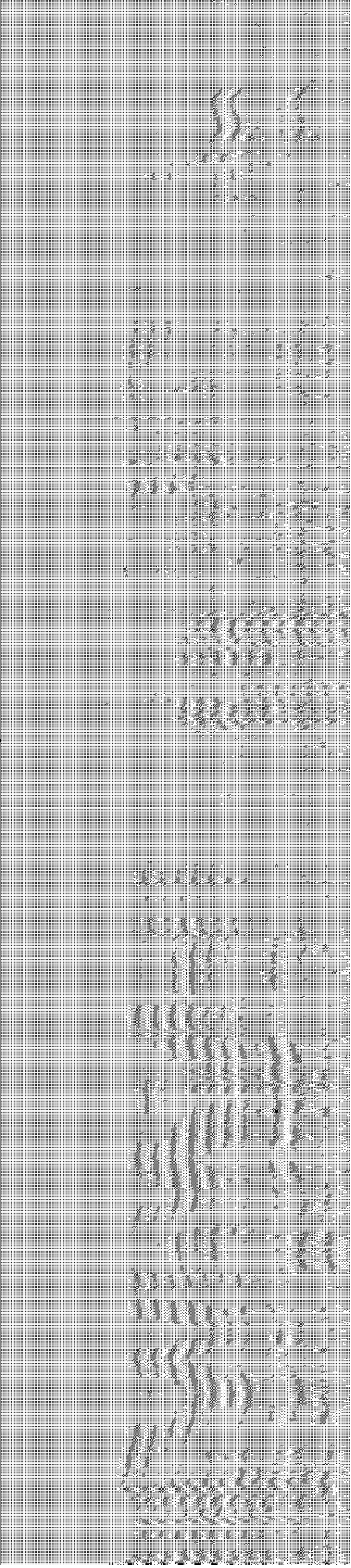
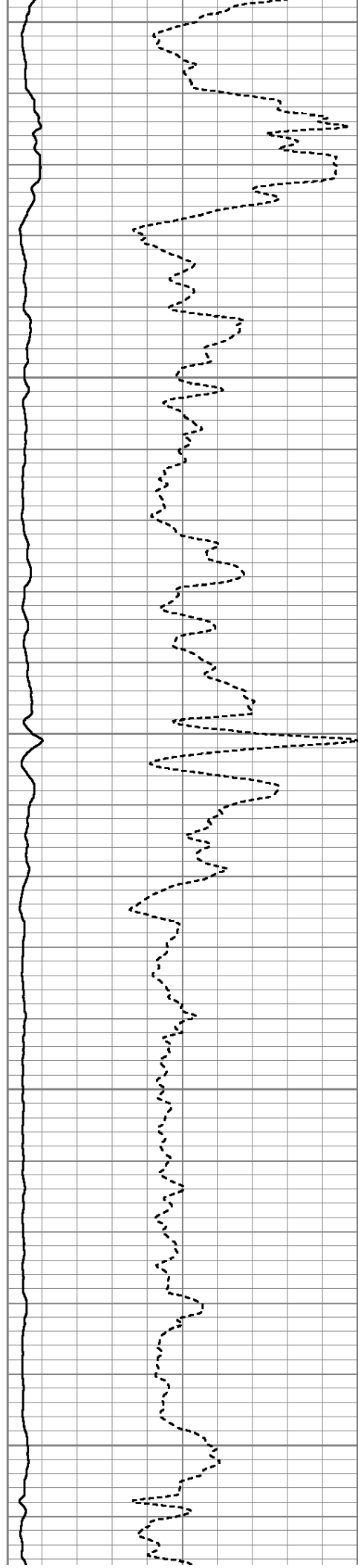
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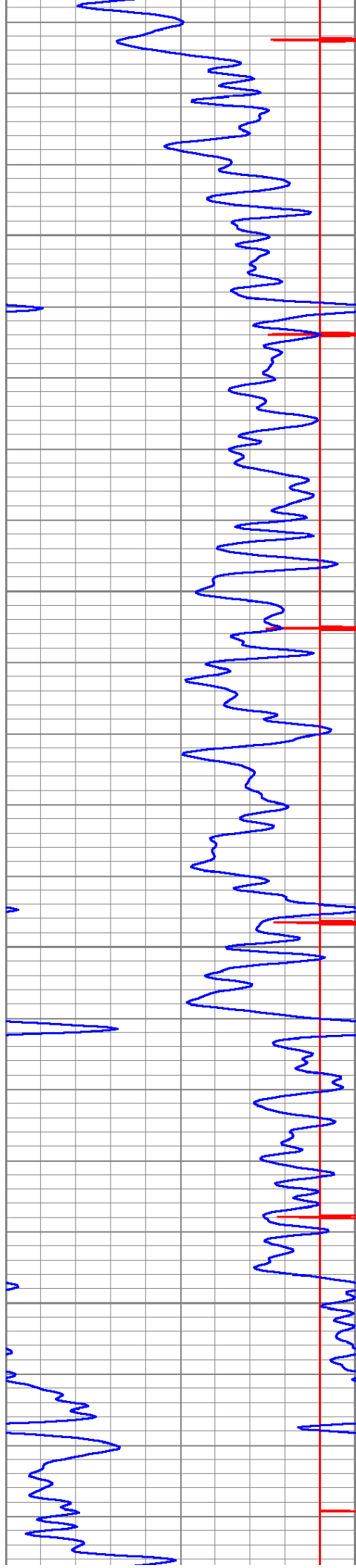




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7650  
7700  
7750  
7800





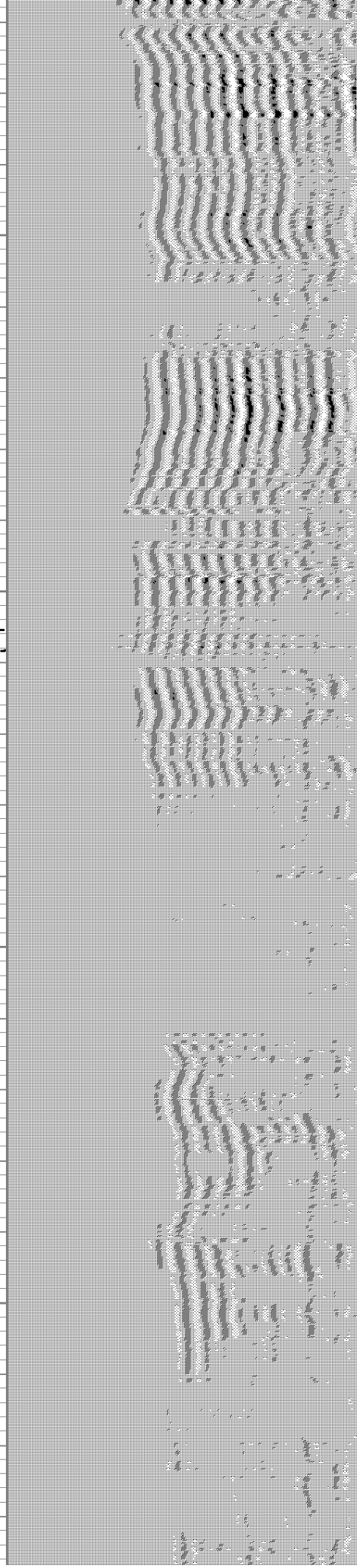
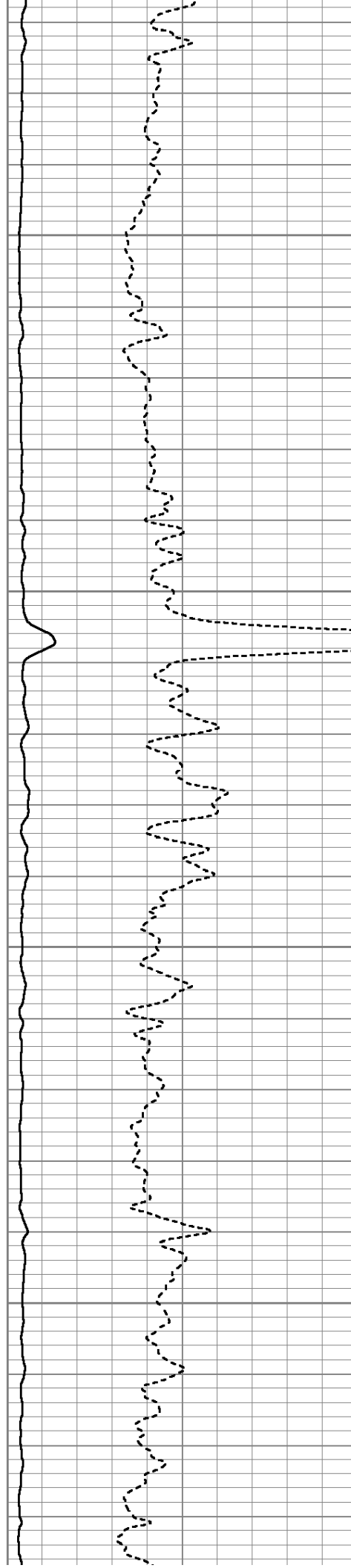


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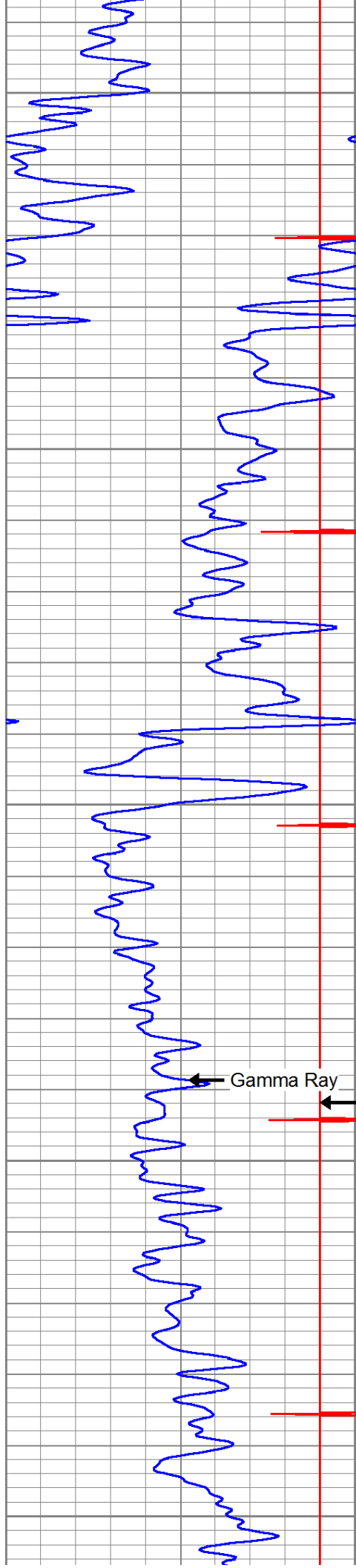
7900

7950

8000







8050

8100

8150

8200

8250

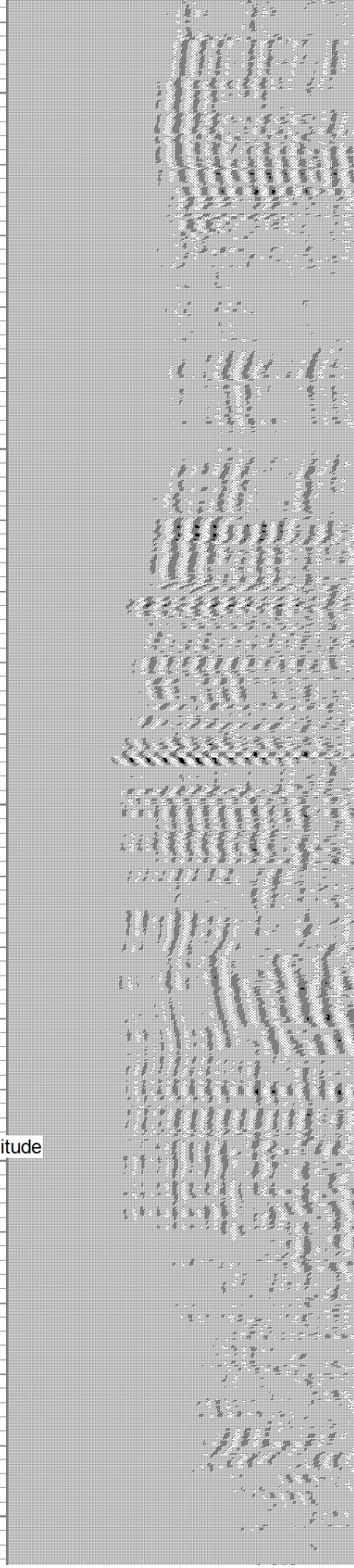
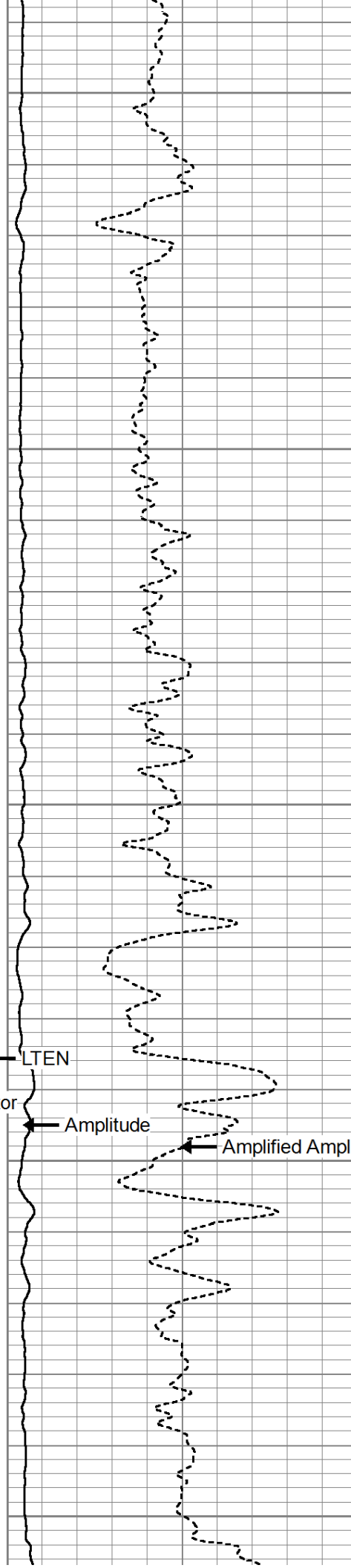
Gamma Ray

Collar Locator

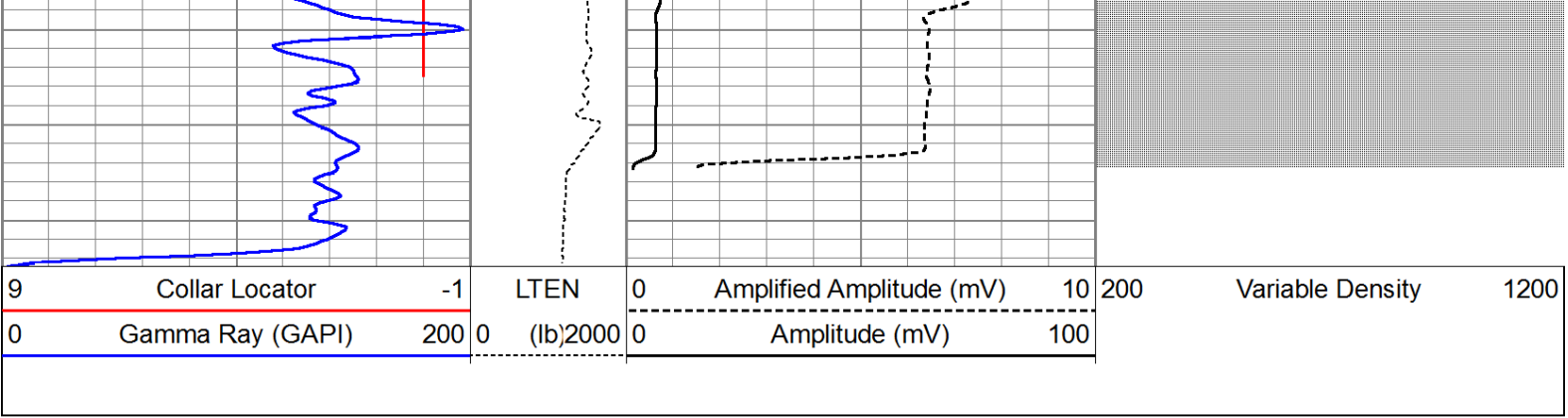
LTEN

Amplitude

Amplified Amplitude

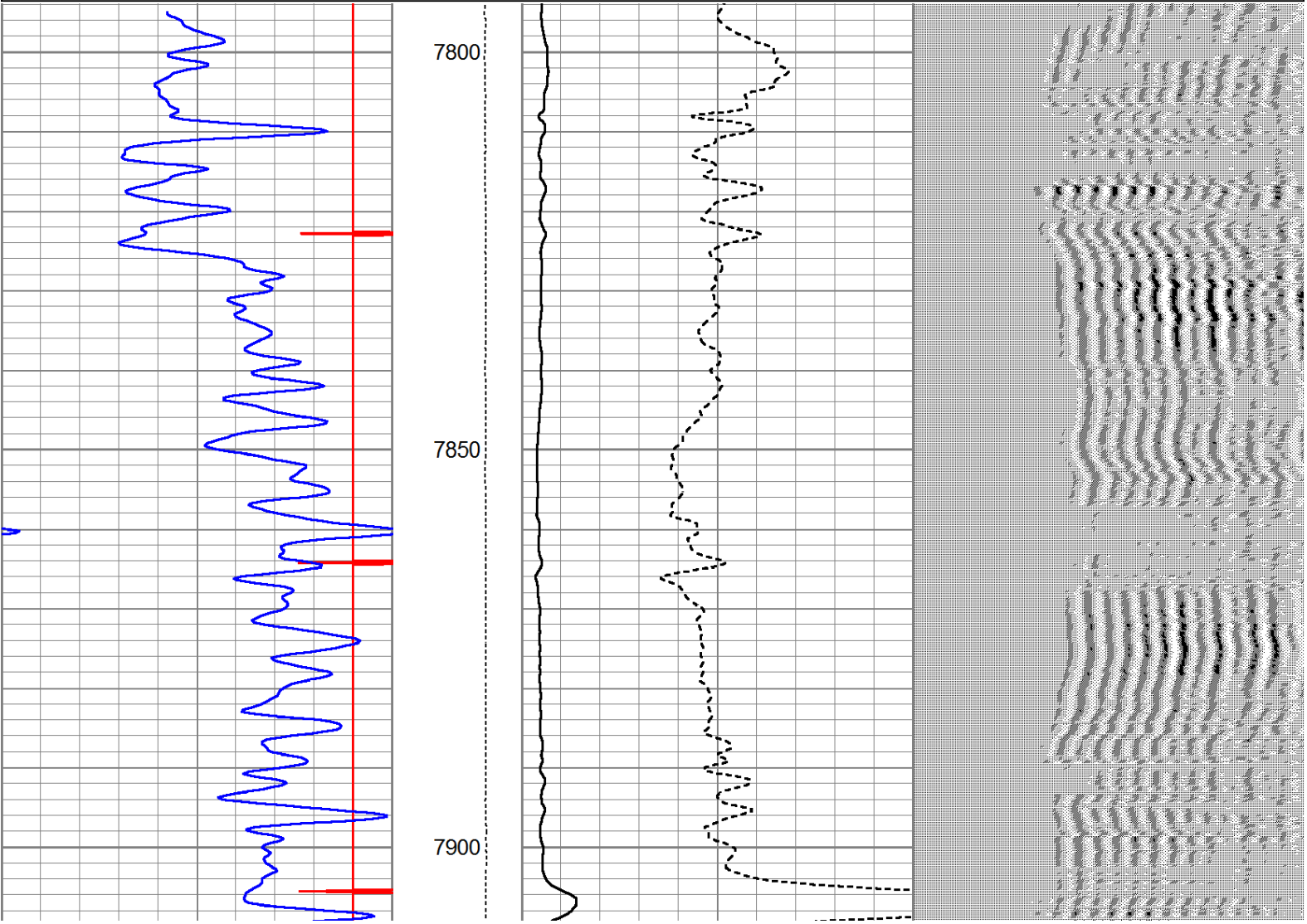
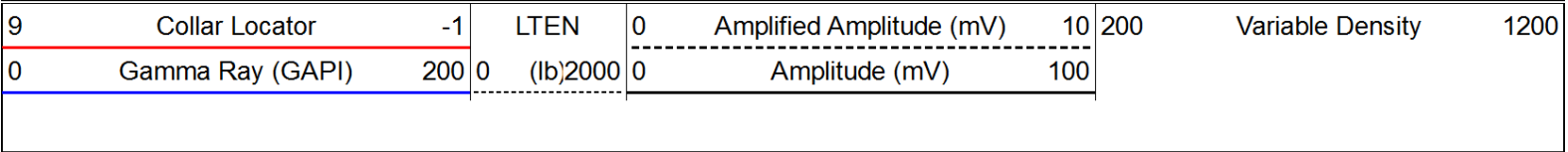


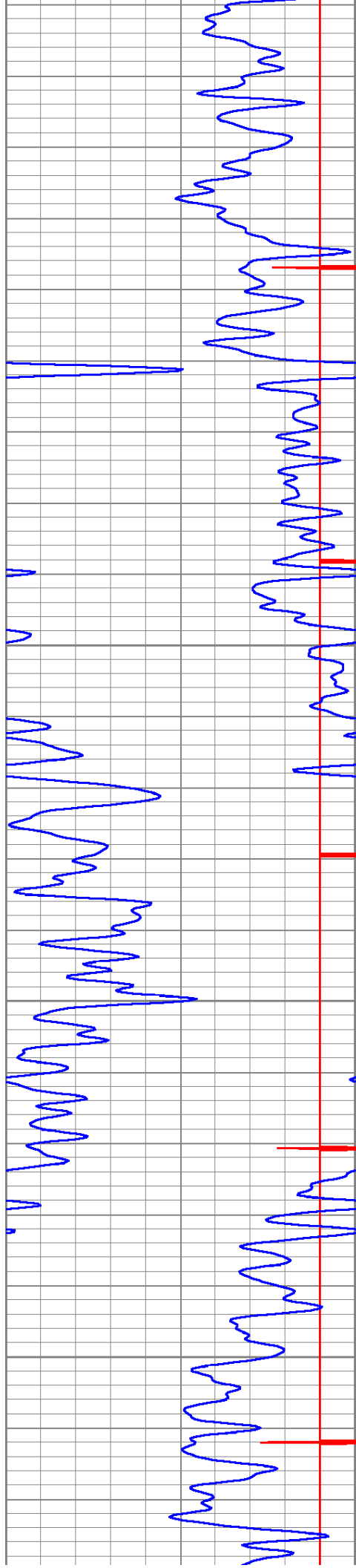




# REPEAT PASS

Database File: north rinn 0-4-9.db  
Dataset Pathname: pass2  
Presentation Format: cbl\_dr  
Dataset Creation: Thu Aug 08 13:19:13 2013 by Log SCH 120126  
Charted by: Depth in Feet scaled 1:240





7950

8000

8050

8100

