



COMPENSATED NEUTRON
GAMMA-RAY / CCL
LOG

Company LLANO DISPOSAL LLC.
Well STATE 27 #1
Field
County LEA
State NEW MEXICO Country U.S.A.

Location: API #: N/A

SEC TWP RGE

Permanent Datum GROUND LEVEL Elevation ---
Log Measured From GROUND LEVEL
Drilling Measured From KELLY BUSHING

Other Services
RCBL
CIL
Elevation
K.B. ---
D.F. ---
G.L. ---

Date 22-MAY-2018

Run Number	ONE
Depth Driller	13500'
Depth Logger	4511'
Bottom Logged Interval	4511'
Top Log Interval	SURFACE
Open Hole Size	---
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	104 DEG.
Estimated Cement Top	220'
Time Well Ready	ROA
Time Logger on Bottom	SEE LOG
Equipment Number	113
Location	LEVELAND
Recorded By	DEREK MOORE
Witnessed By	MARVIN BURROWS

Borehole Record

Tubing Record

To

From

Size

To

From

Bit

Run Number

Size

Wd/Ft

Top

Bottom

Casing Record

Surface String

Prot String

Production String

9.625"

36# & 32#

SURFACE

13500'

Liner

<<< 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

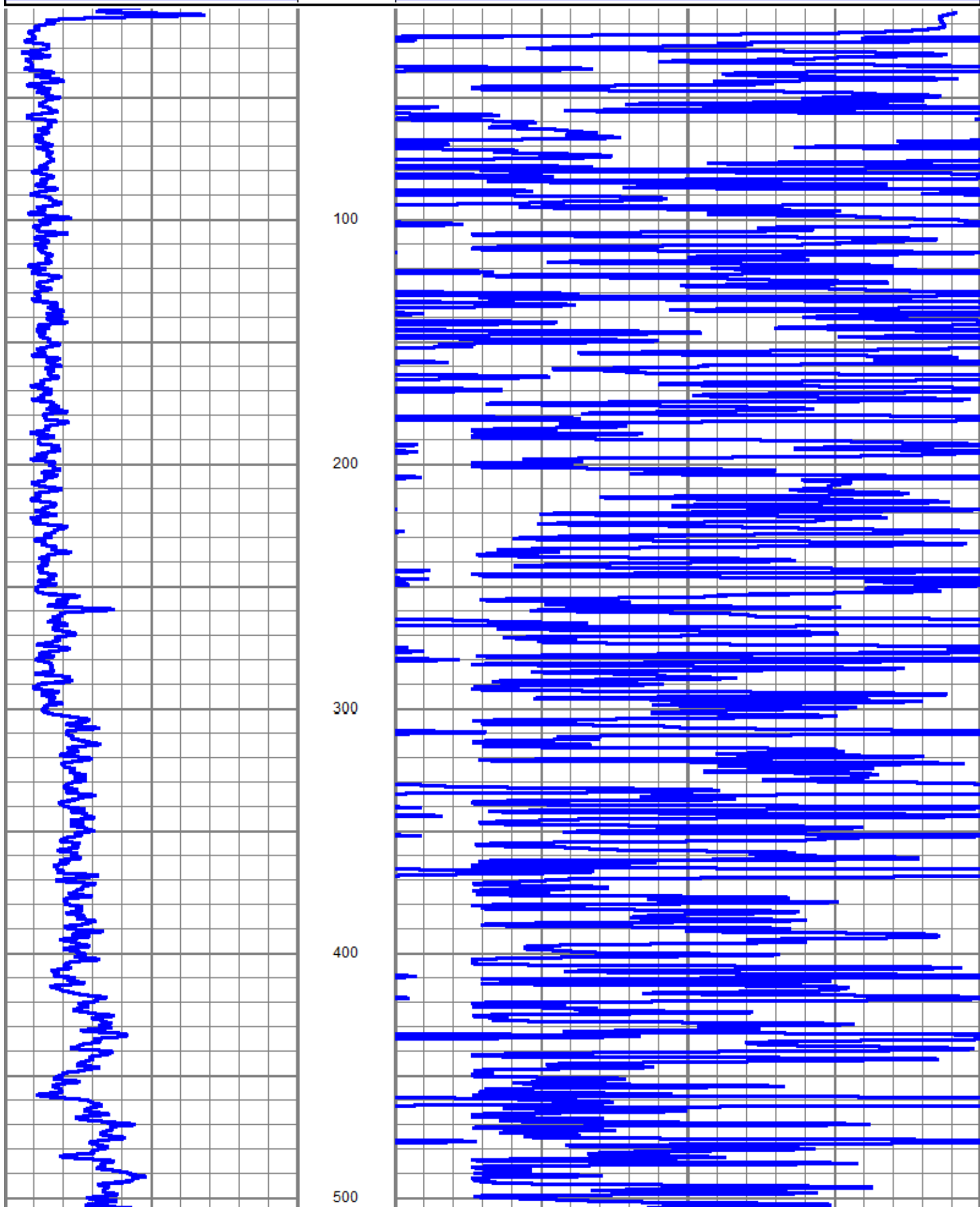
ALL DEPTHS ARE LOGGER DEPTHS ONLY

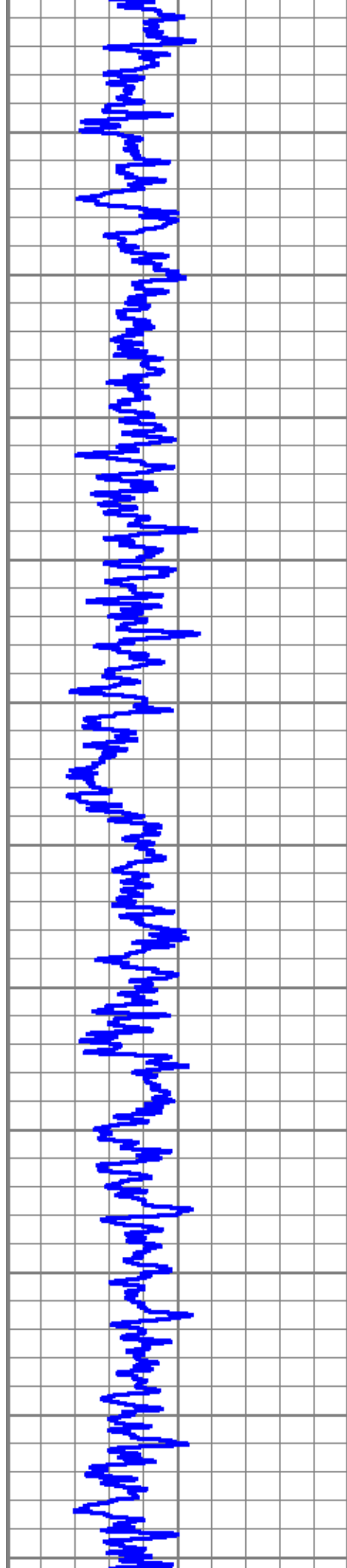


MAIN PASS

Database File llano disposal state 27 #1.db
Dataset Pathname pass4.1
Presentation Format cnl2inch
Dataset Creation Tue May 22 13:18:28 2018
Charted by Depth in Feet scaled 1:600

0	GR (GAPI)	150	30	CNPOR (pu)	-10
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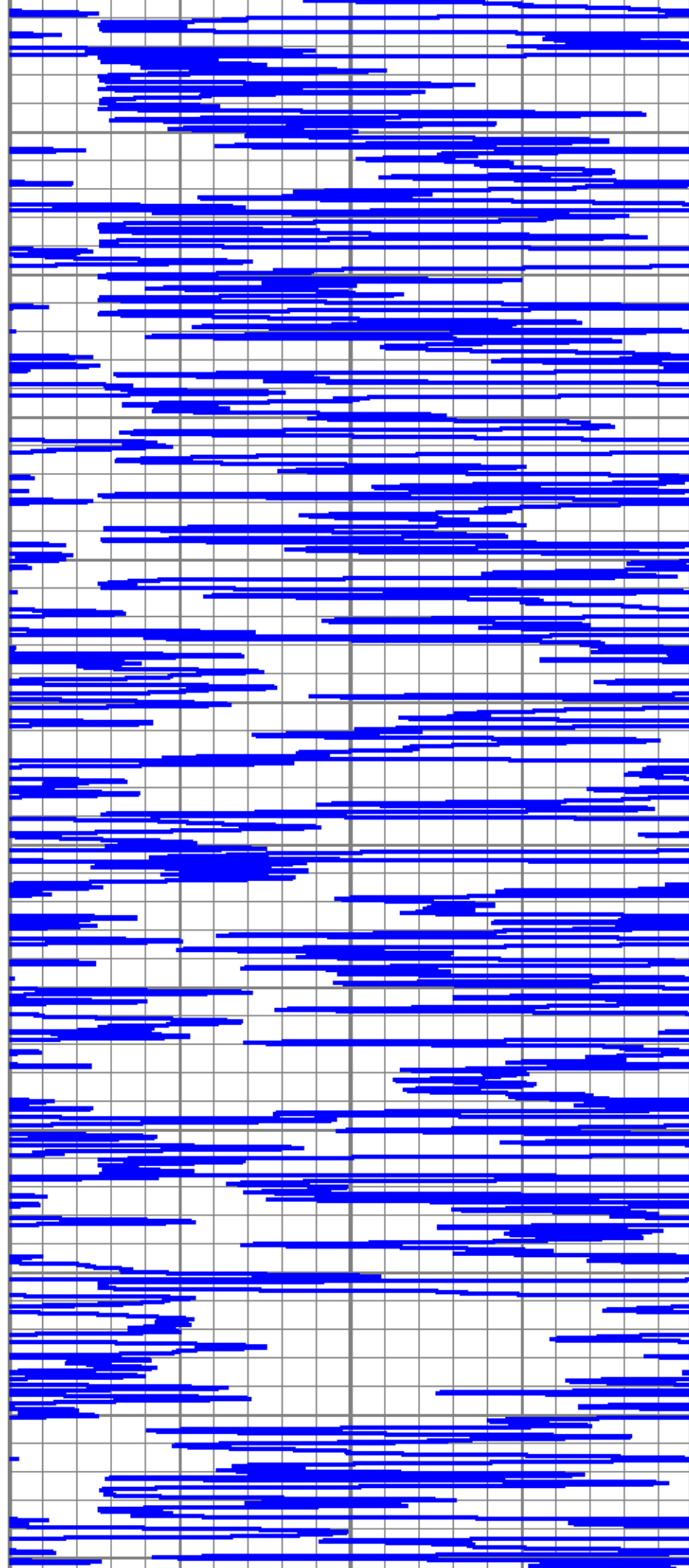
600

700

800

900

1000





1100

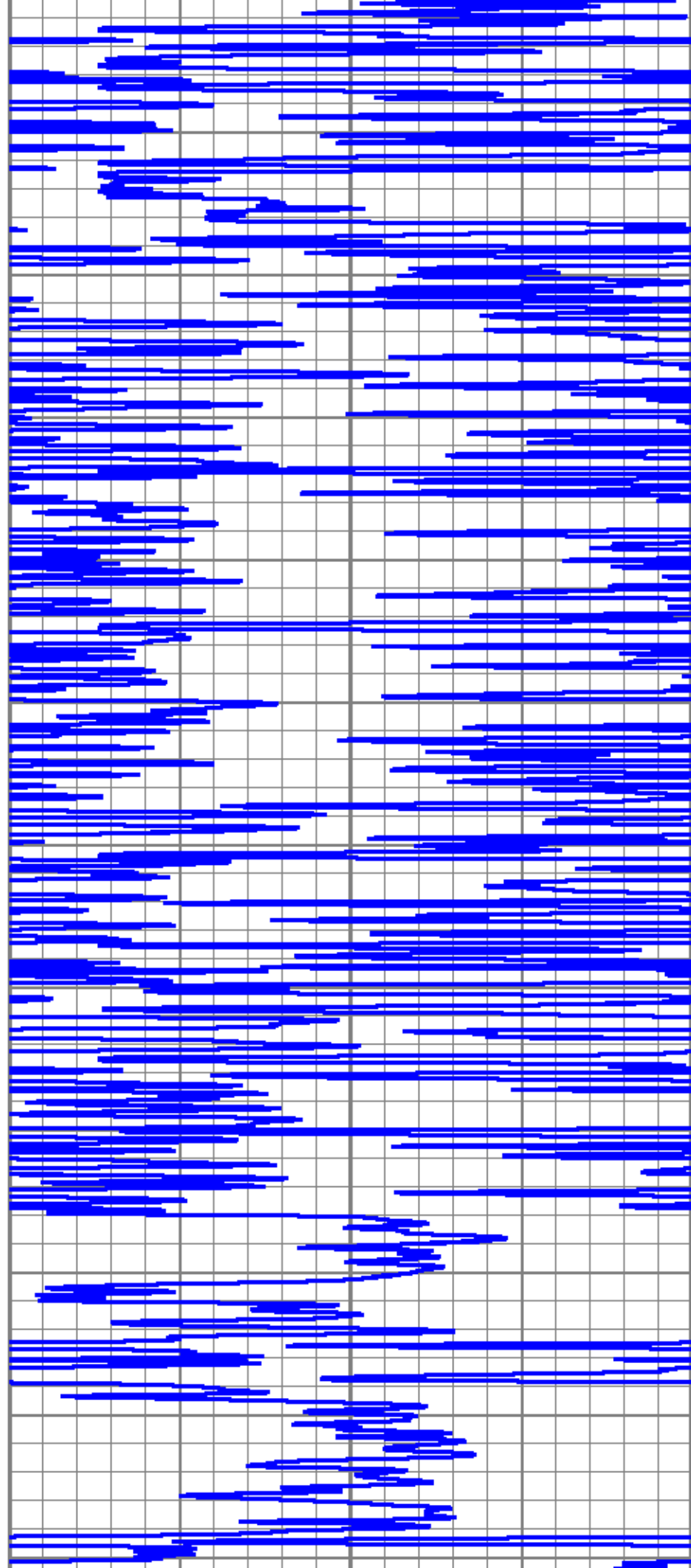
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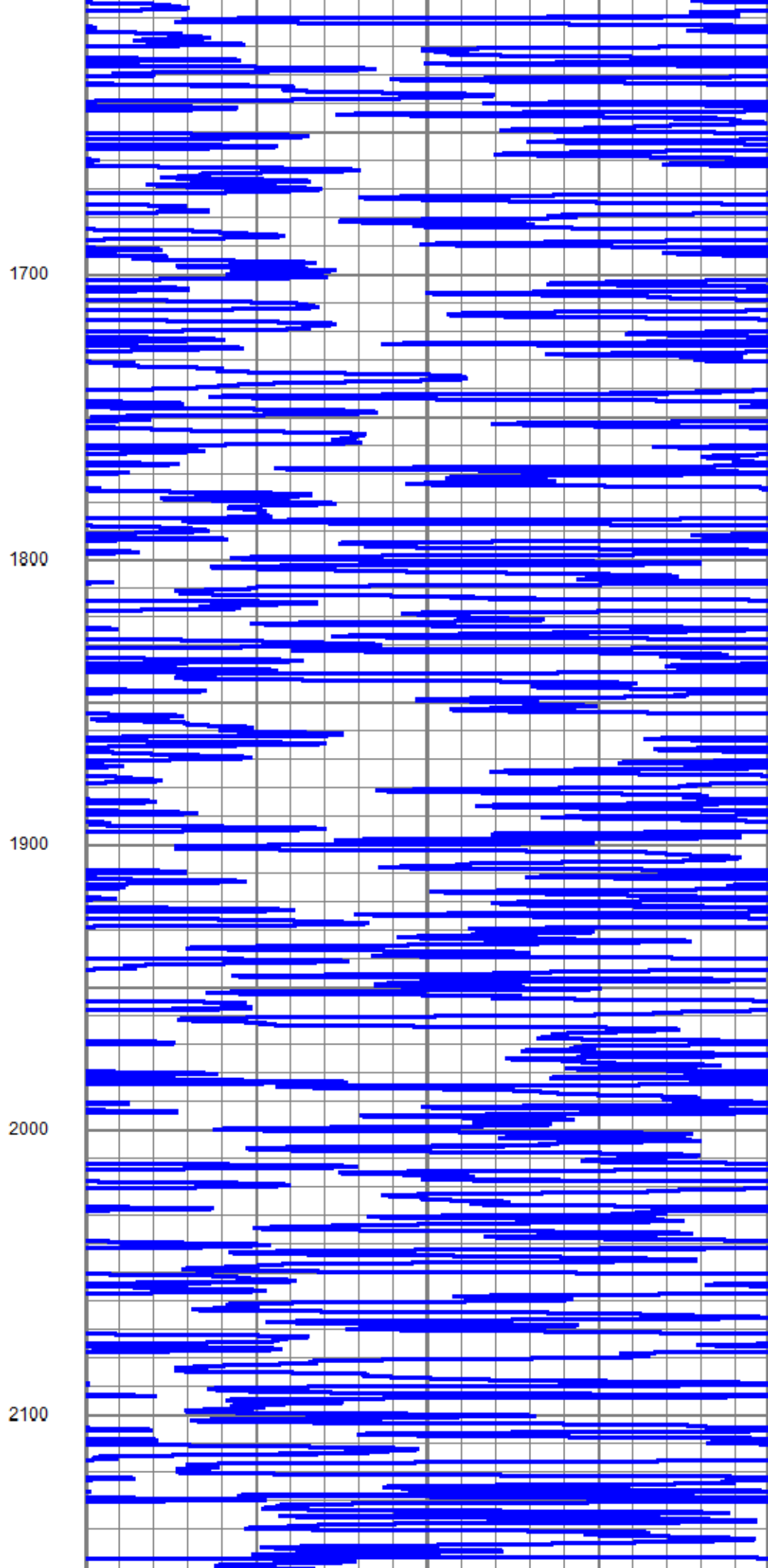
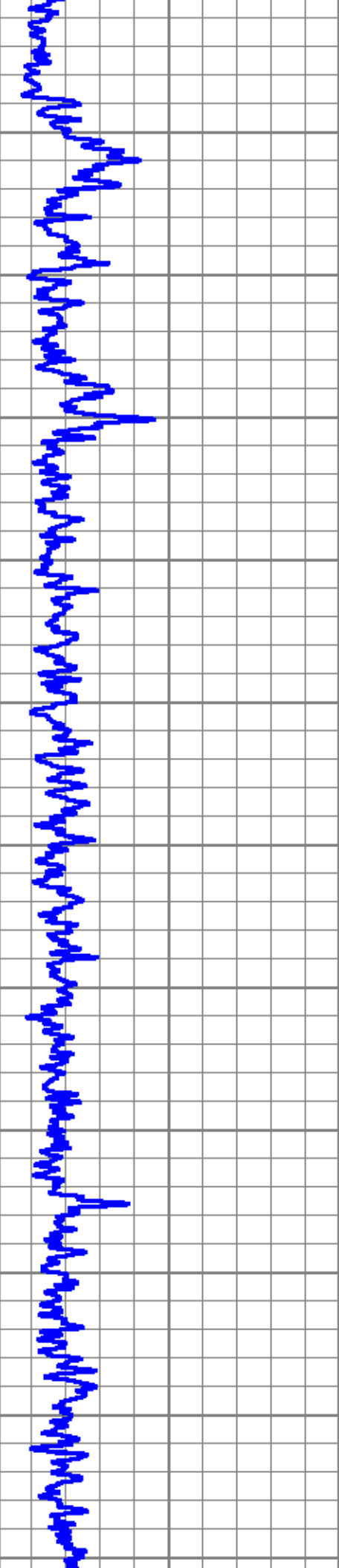
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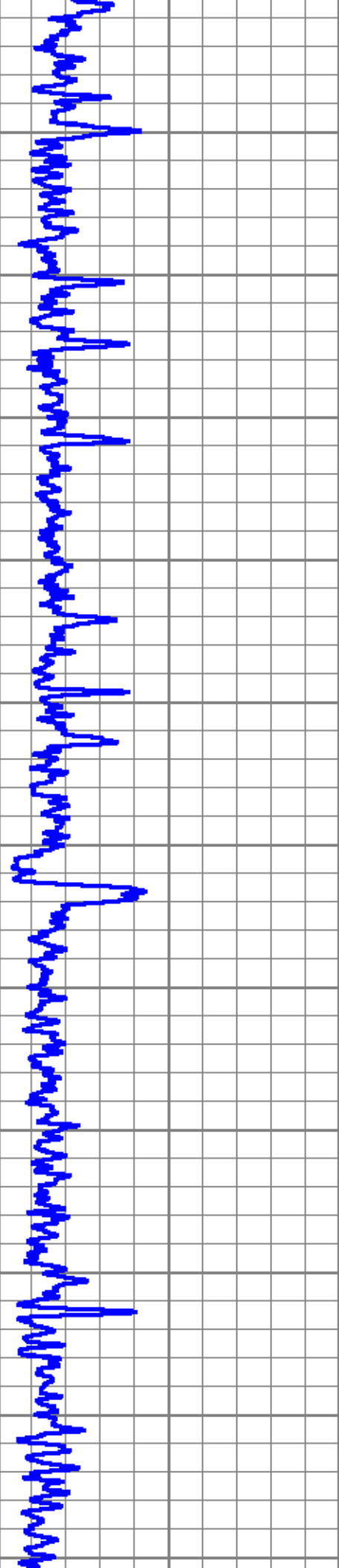
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1500

1600







2200

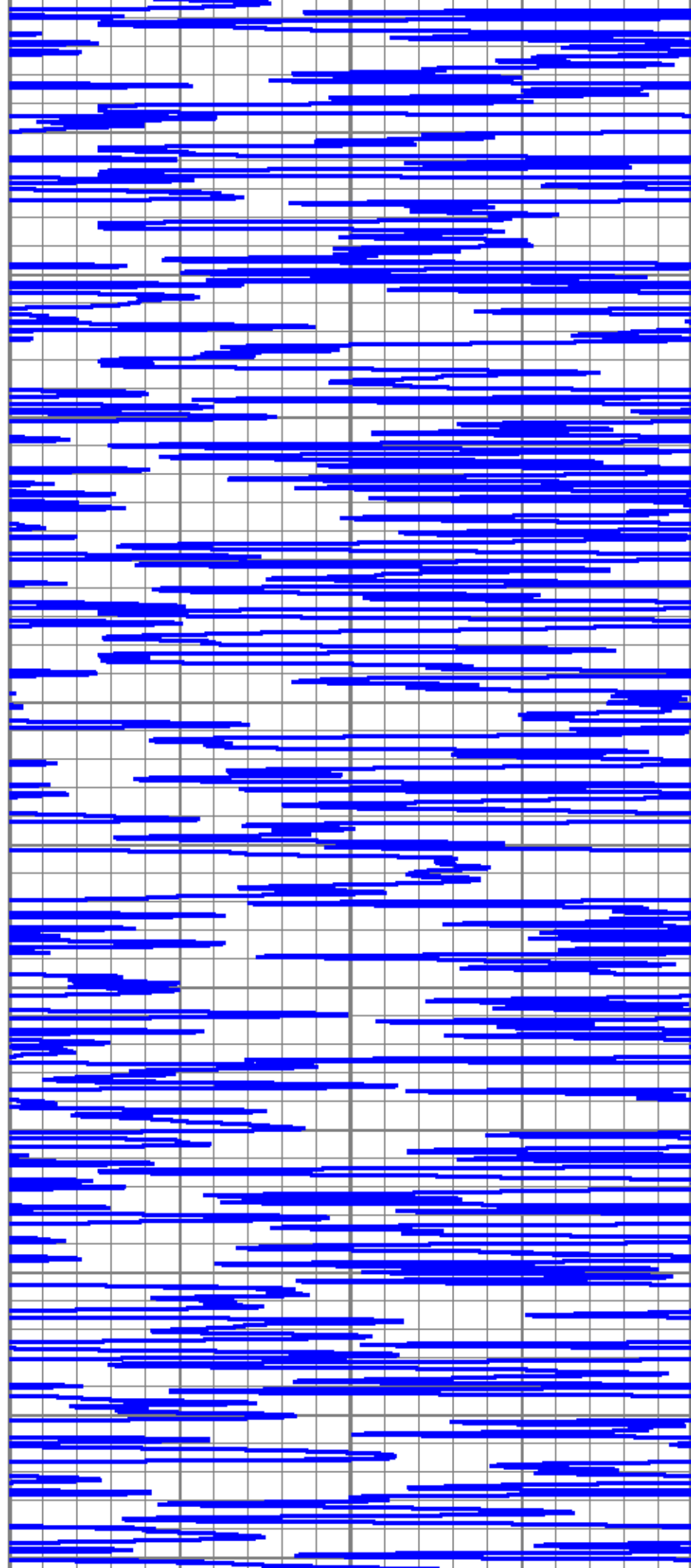
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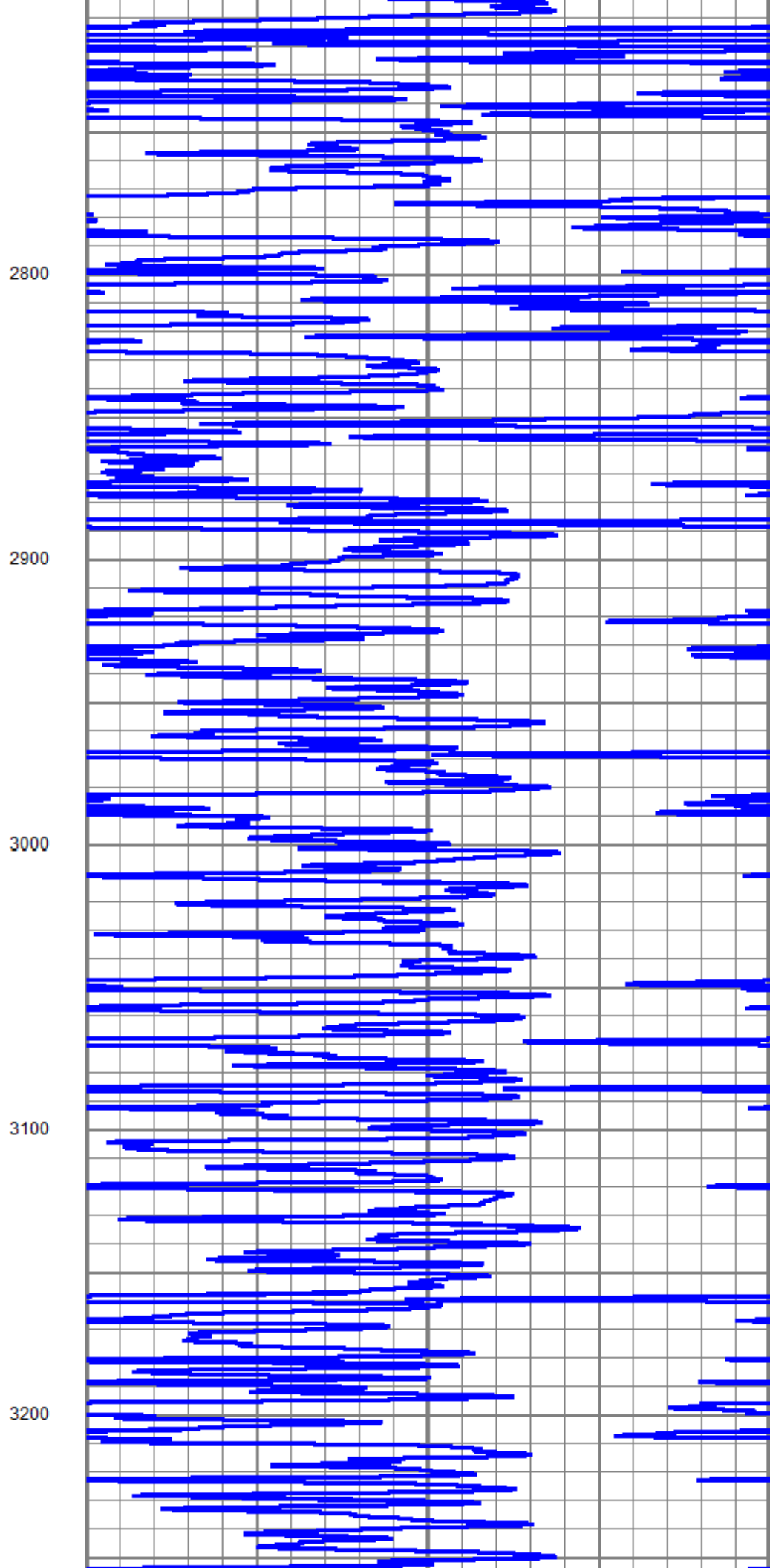
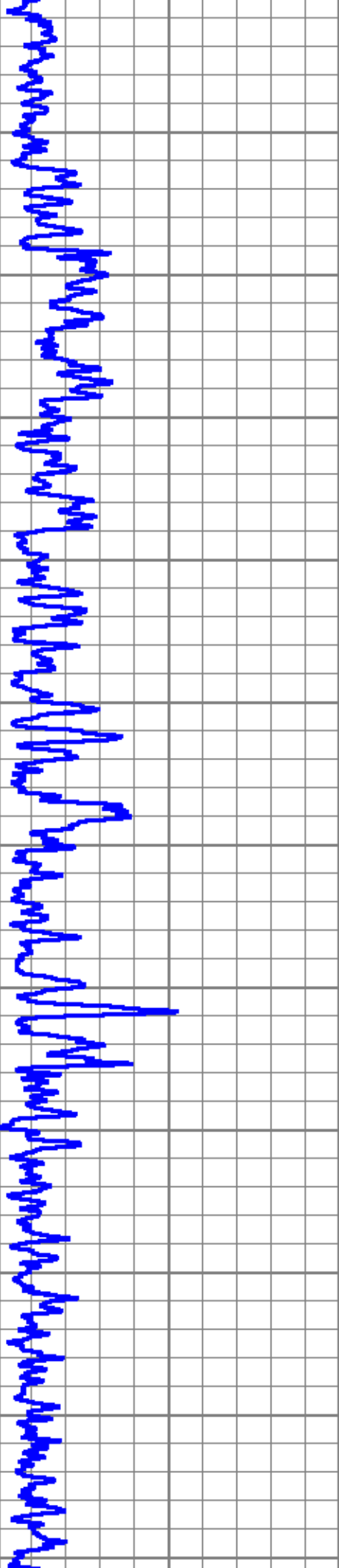
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2600

2700





3300

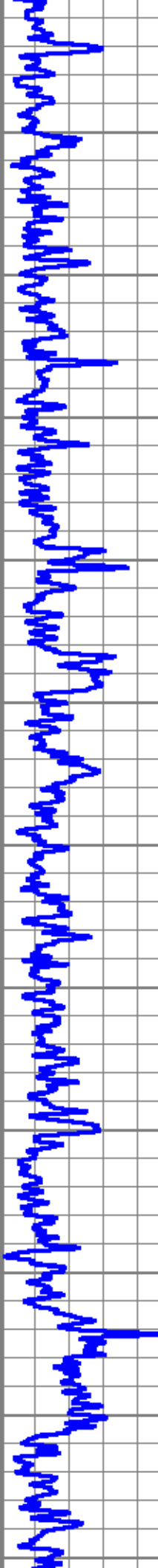
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3800





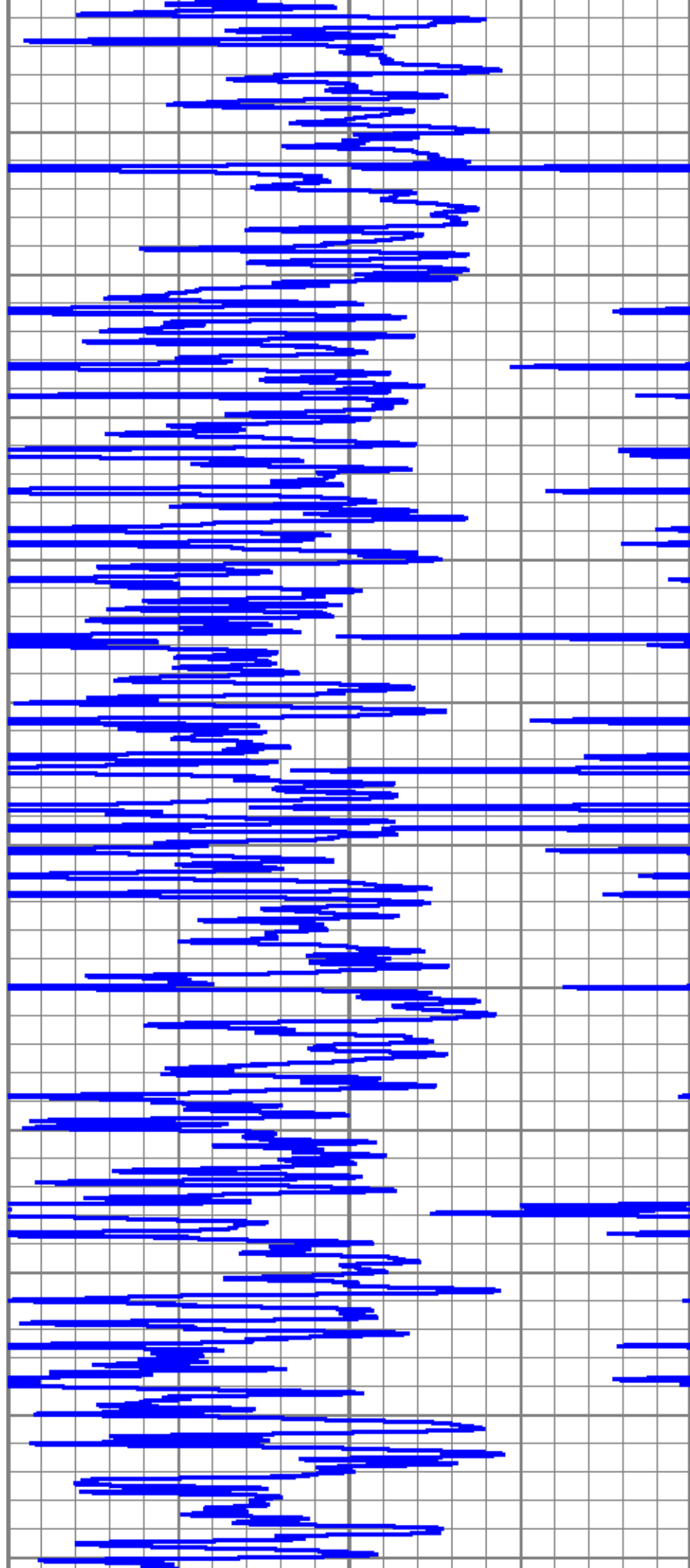
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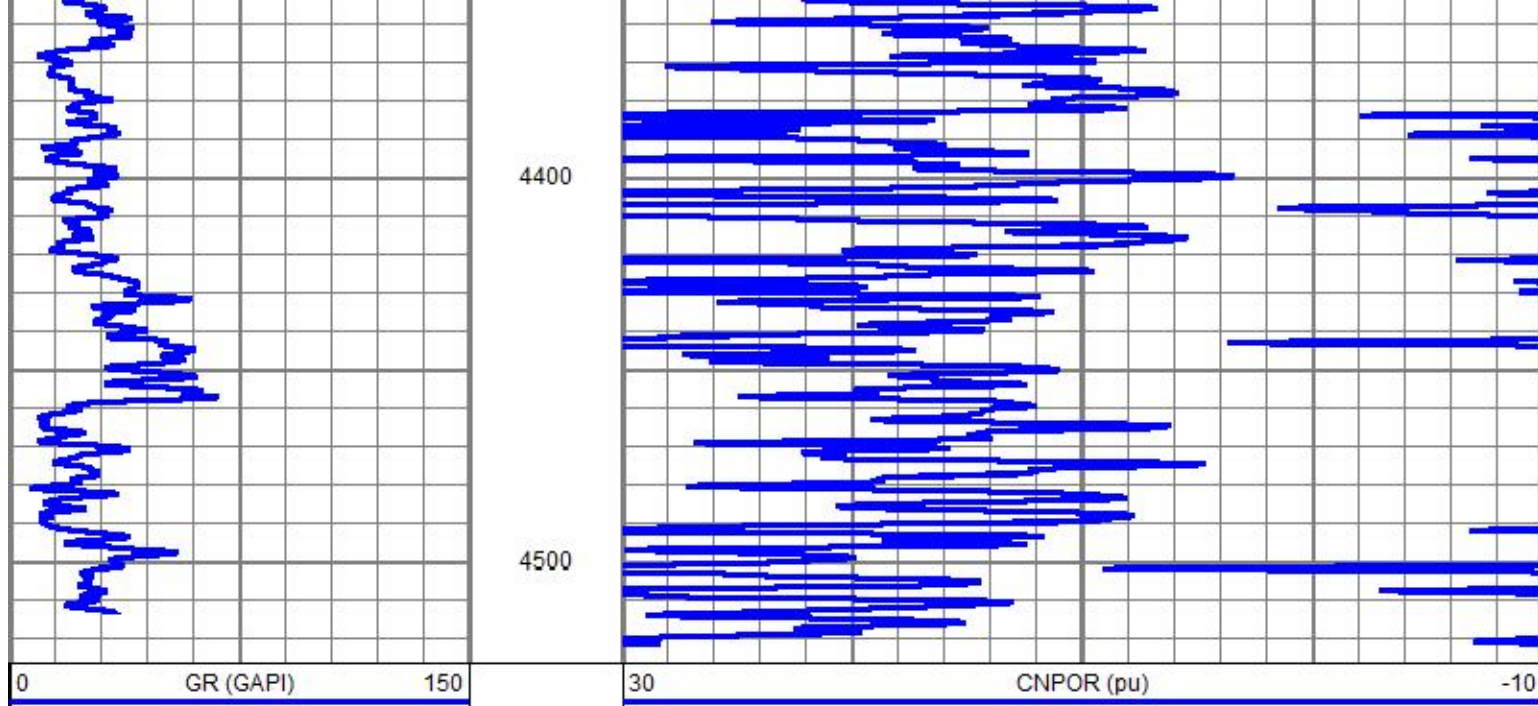
4000

4100

4200

4300

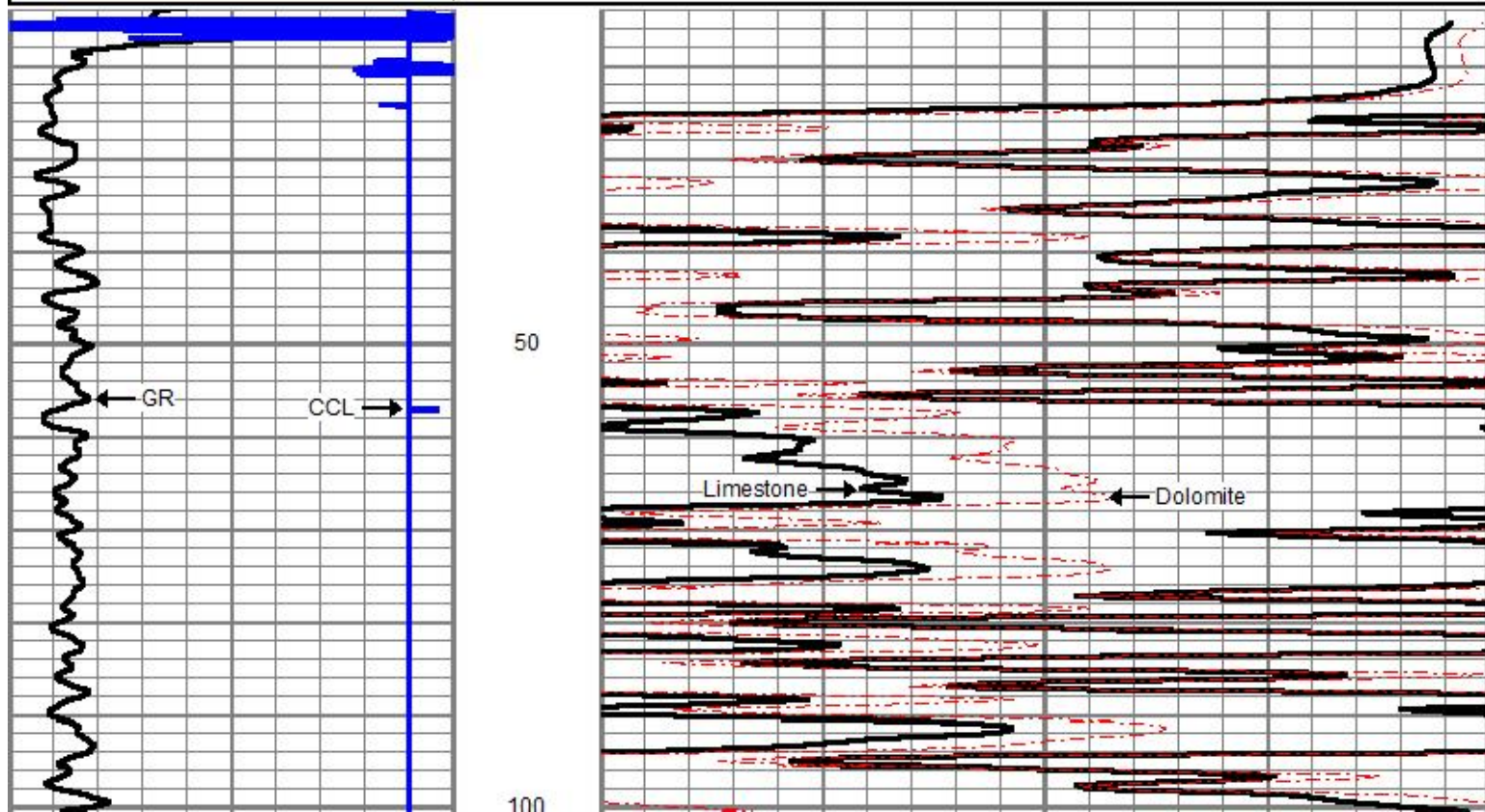


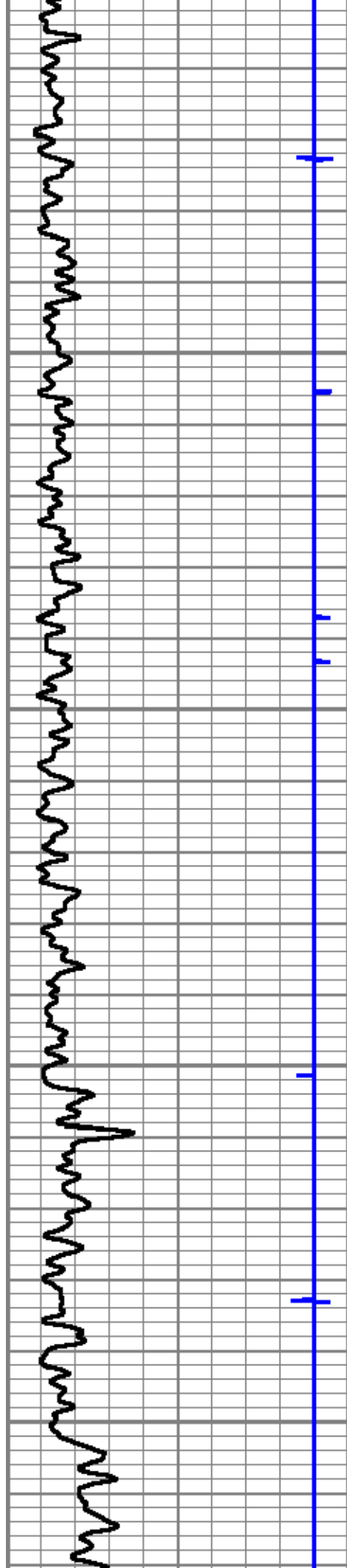


MAIN PASS

Database File Ilano disposal state 27 #1.db
 Dataset Pathname pass4.1
 Presentation Format cntcnts
 Dataset Creation Tue May 22 13:18:28 2018
 Charted by Depth in Feet scaled 1:240

0	LTEN (lb)	4000	30	Limestone (pu)	-10
0	GR (GAPI)	150	30	Dolomite (pu)	-10
-9	CCL	1			





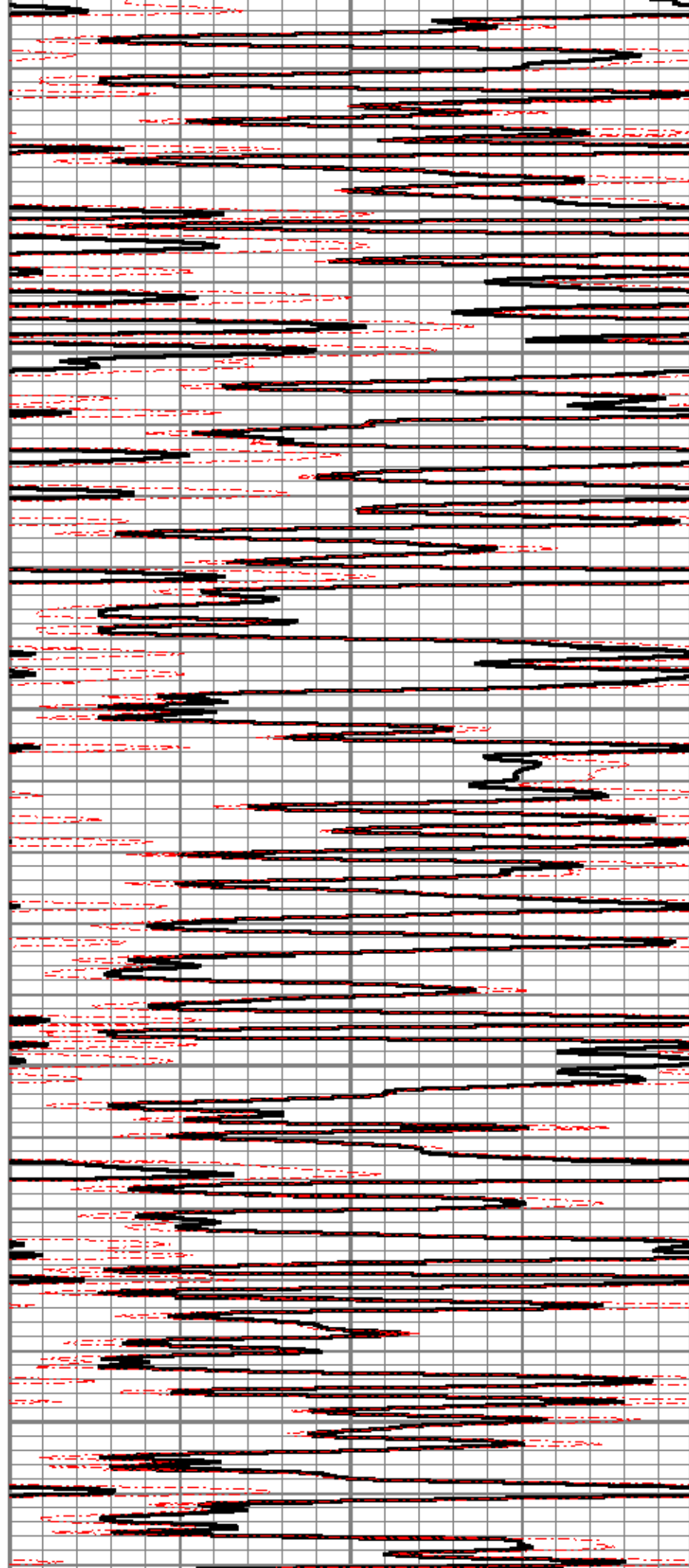
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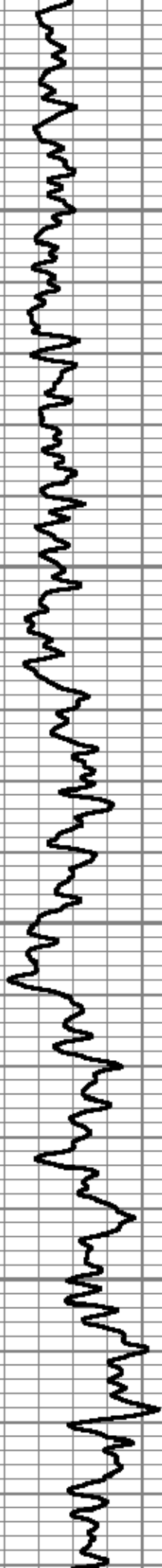
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200

250

300



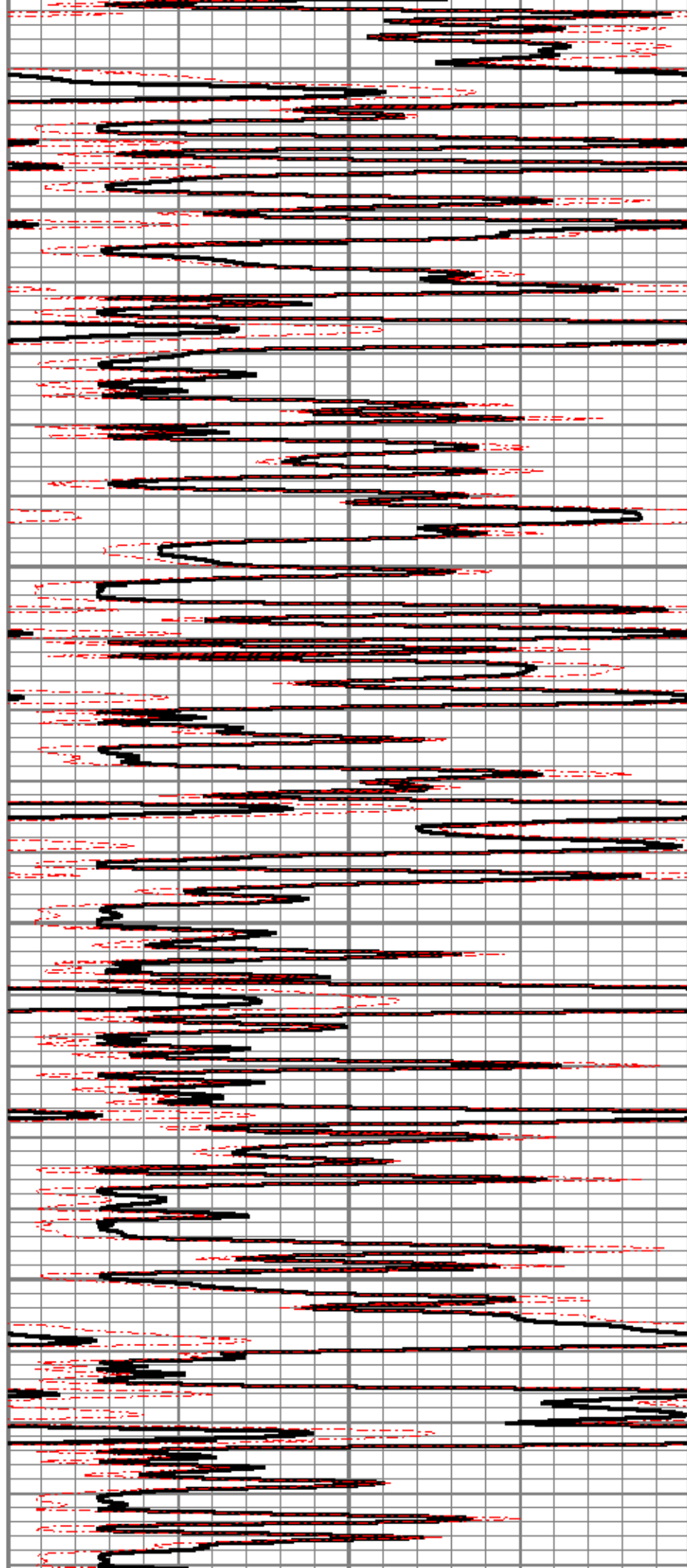


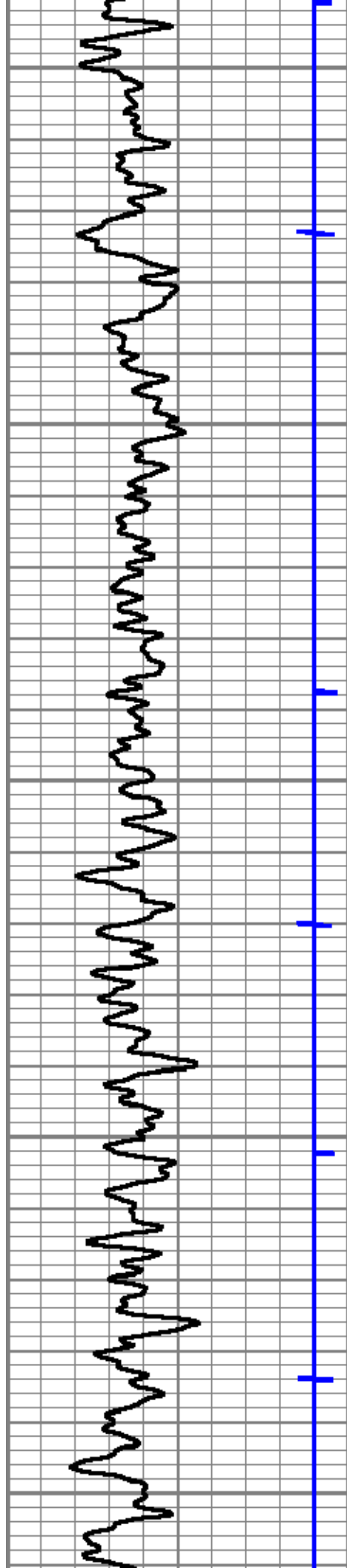
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400

450

500





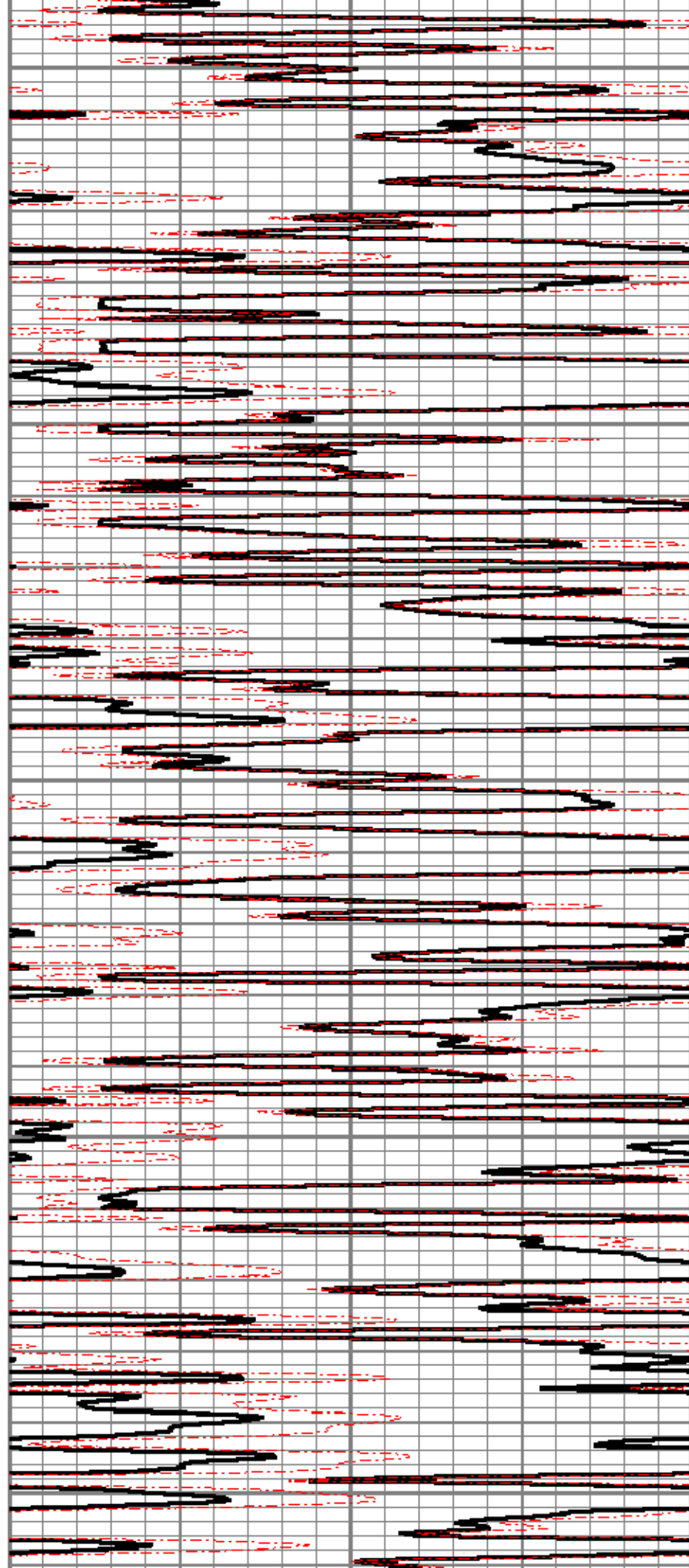
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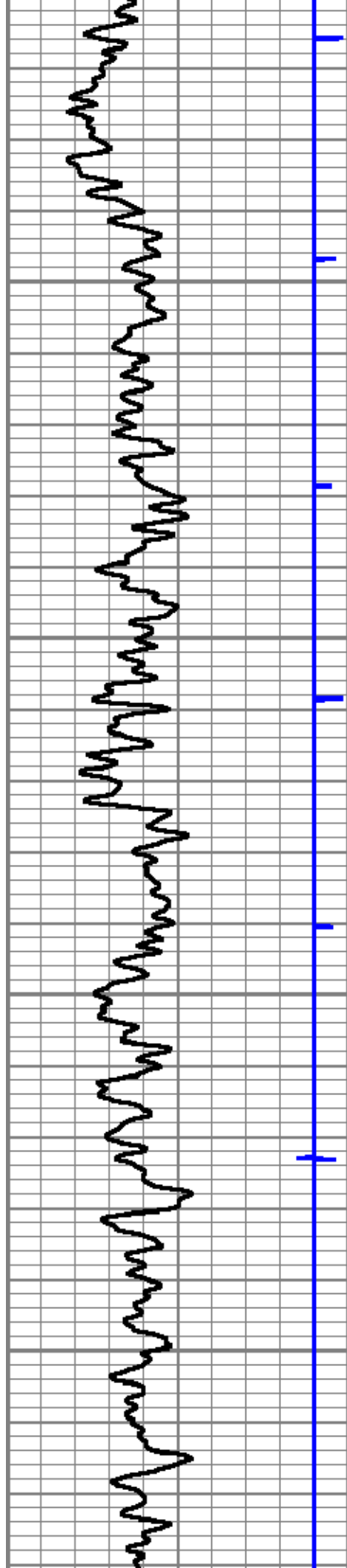
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650

700

750



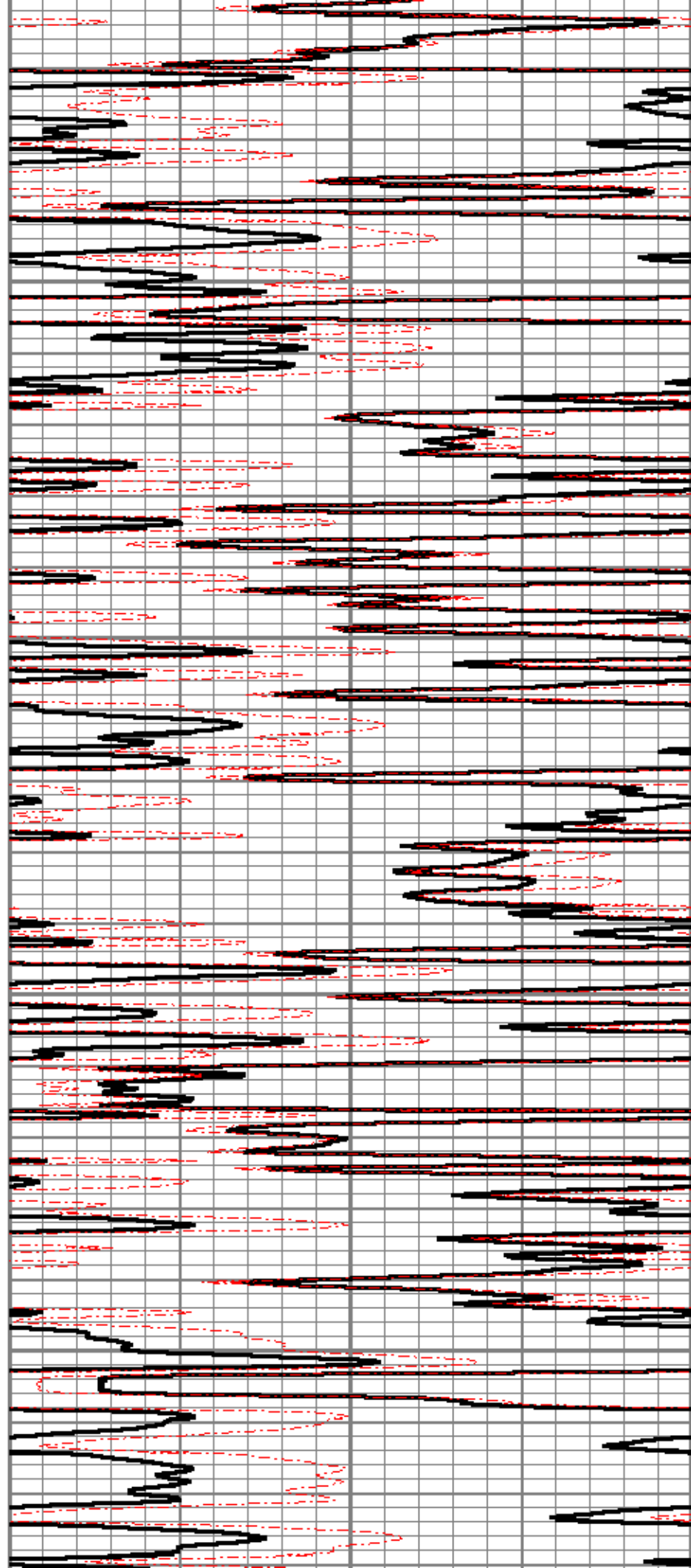


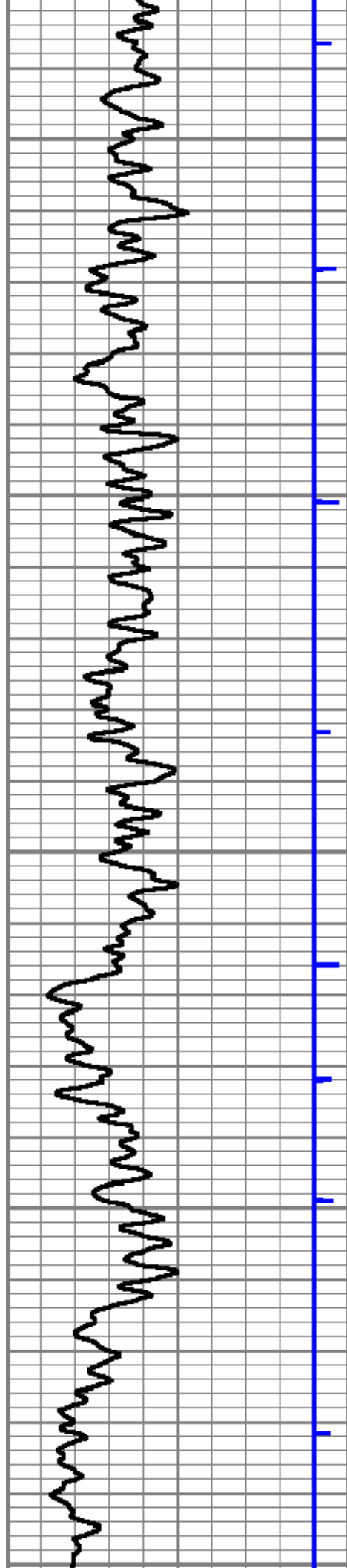
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850

900

950





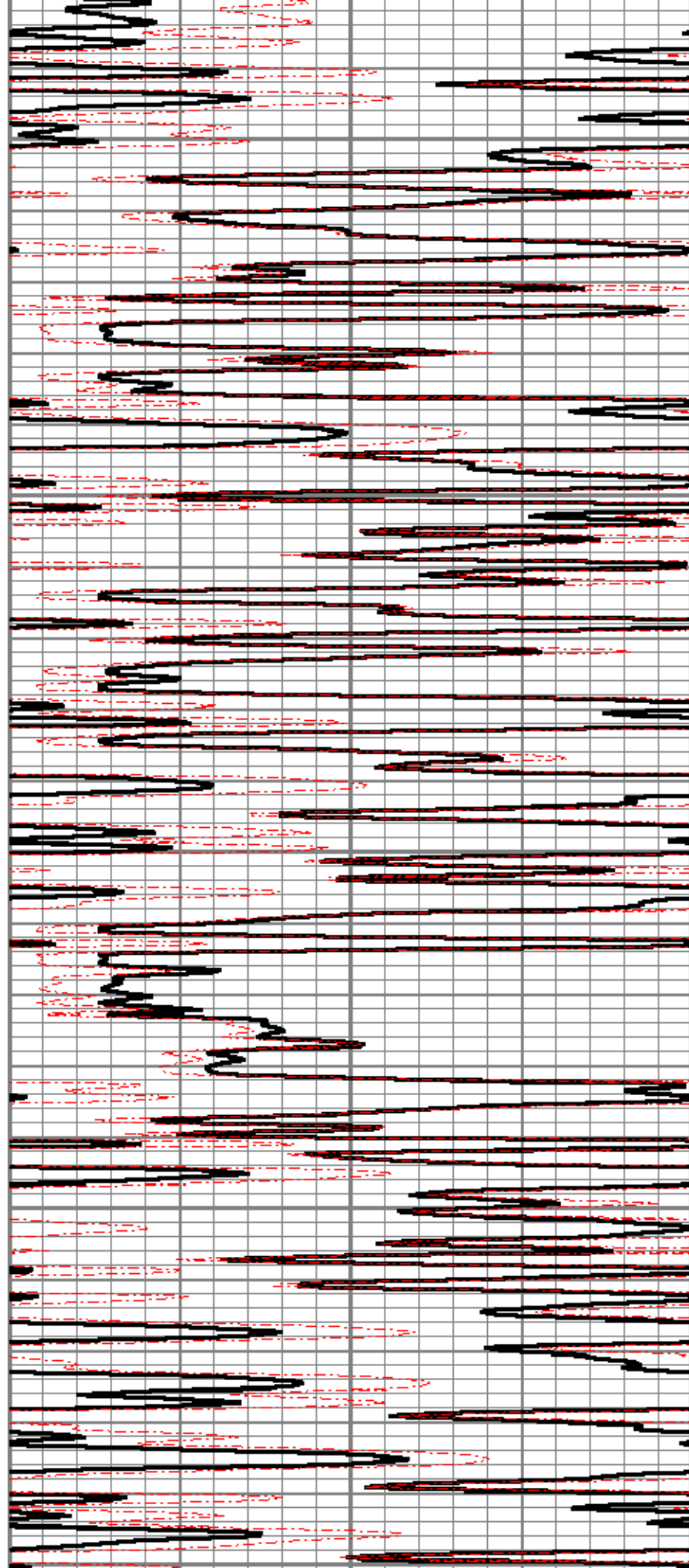
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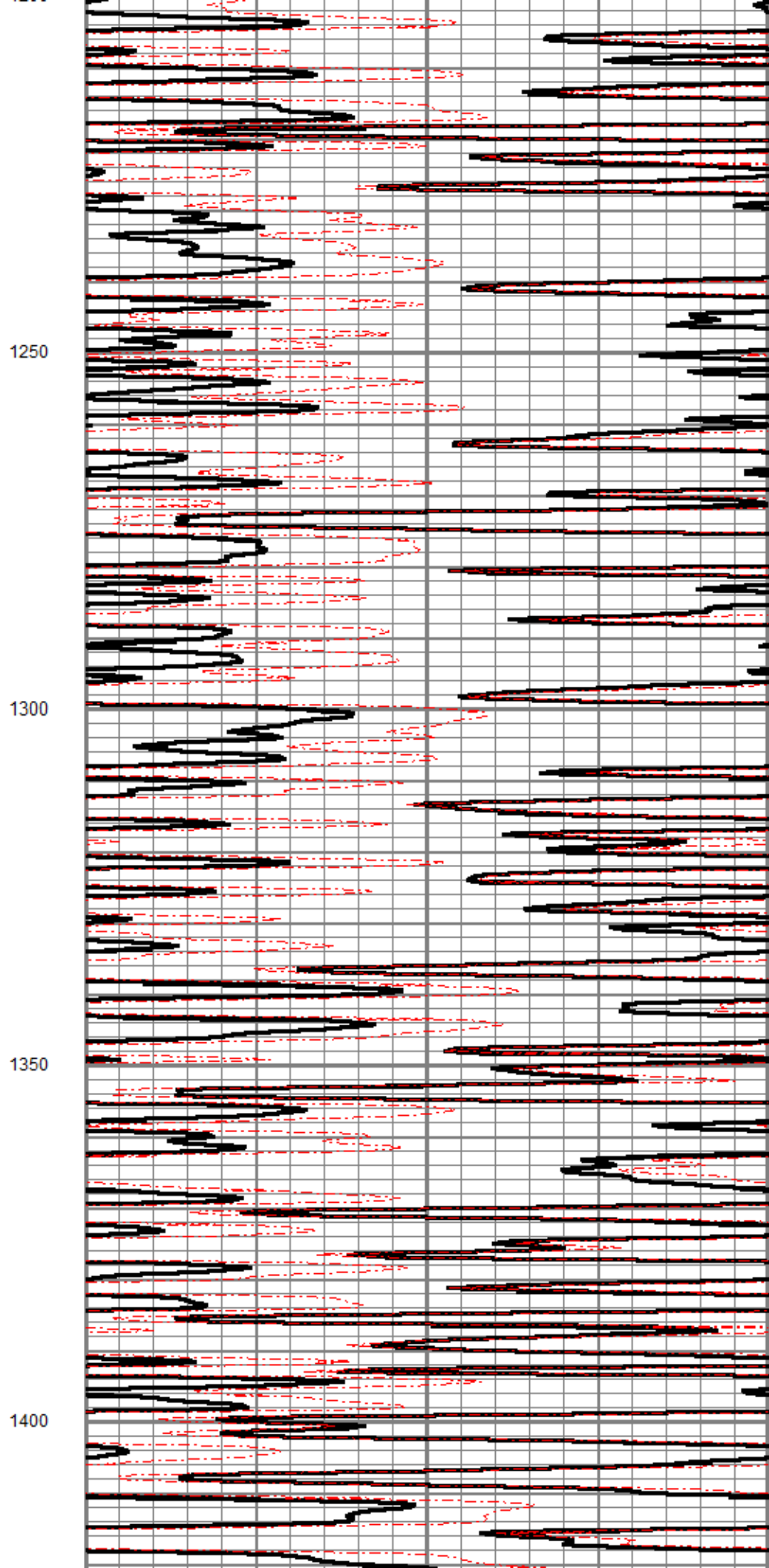
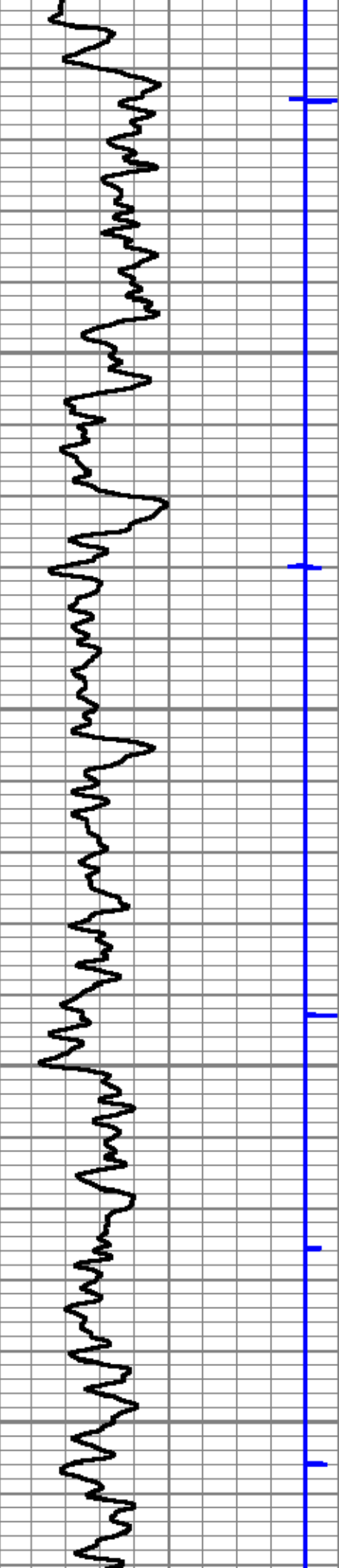
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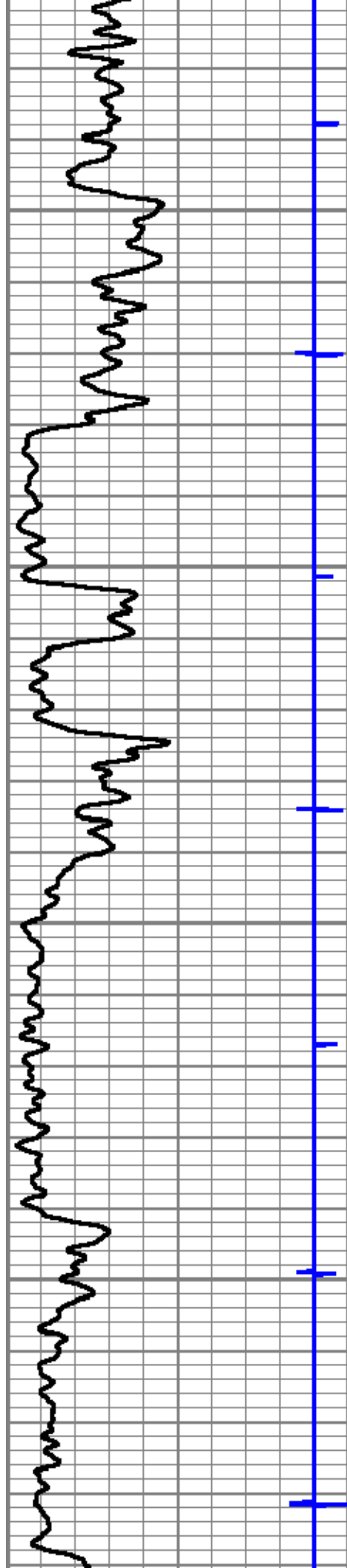
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1150

1200





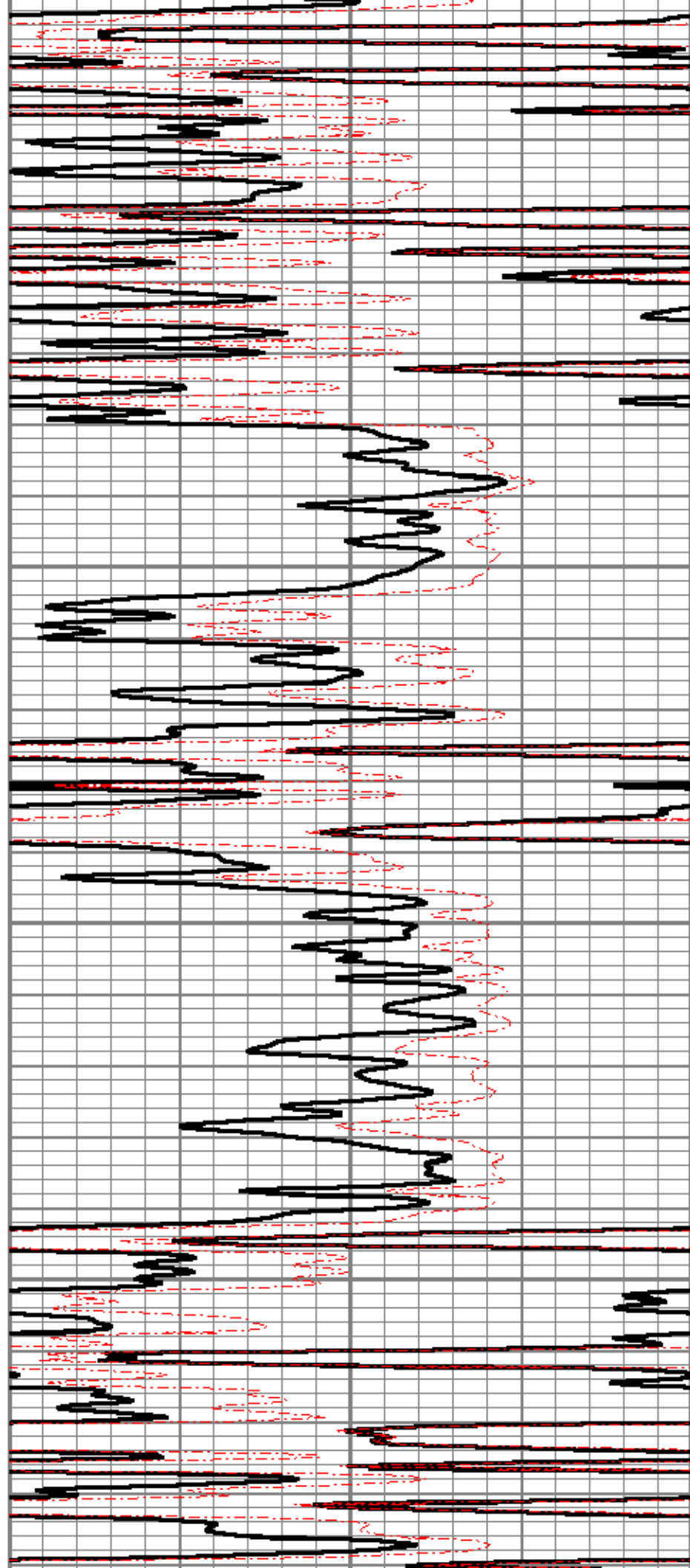


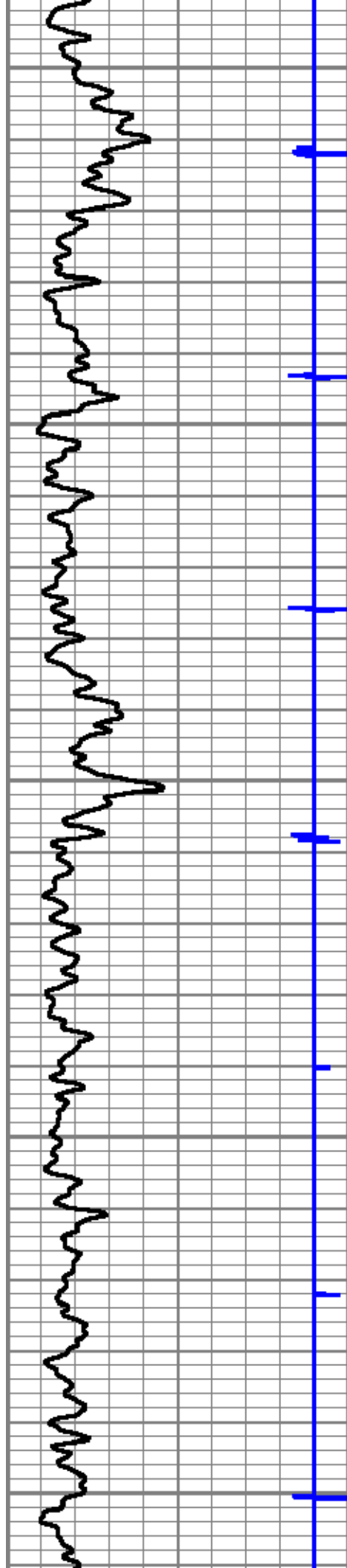
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1550

1600





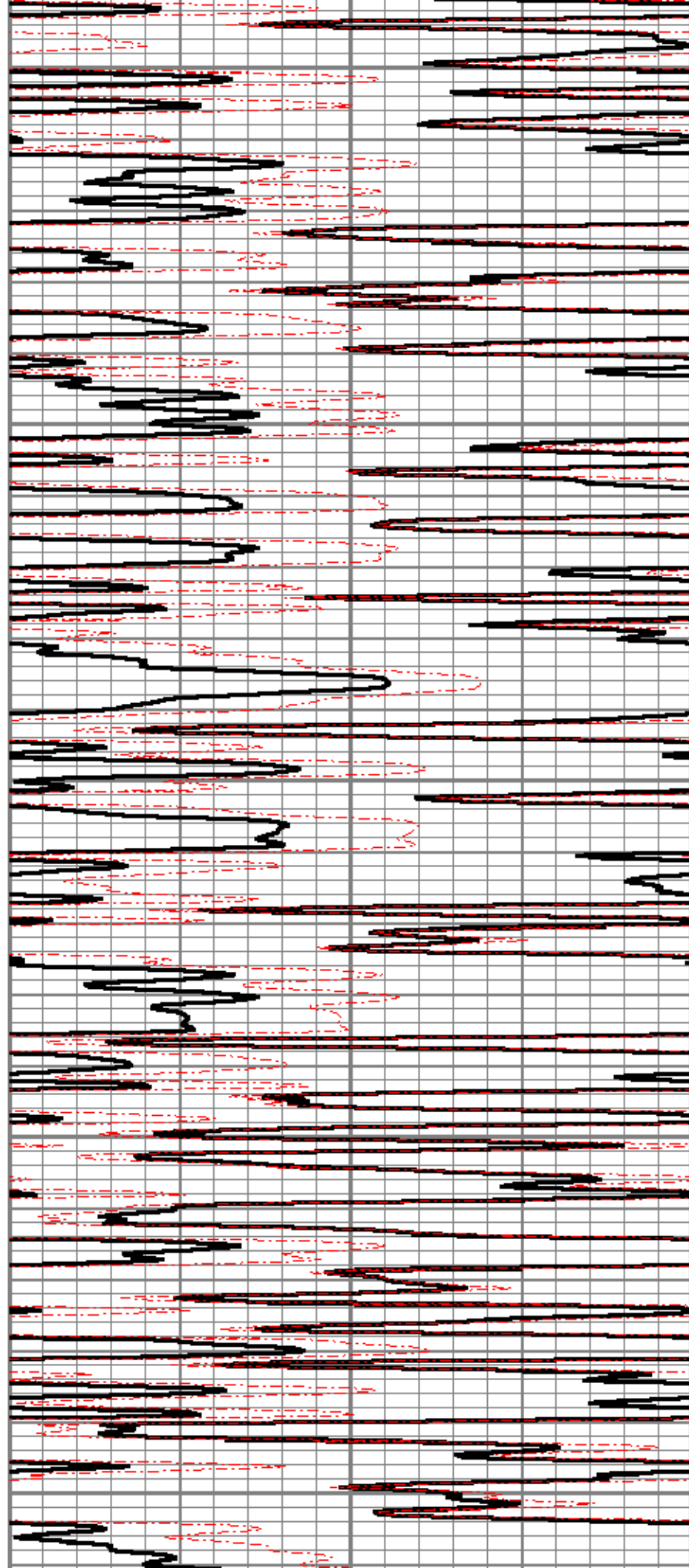
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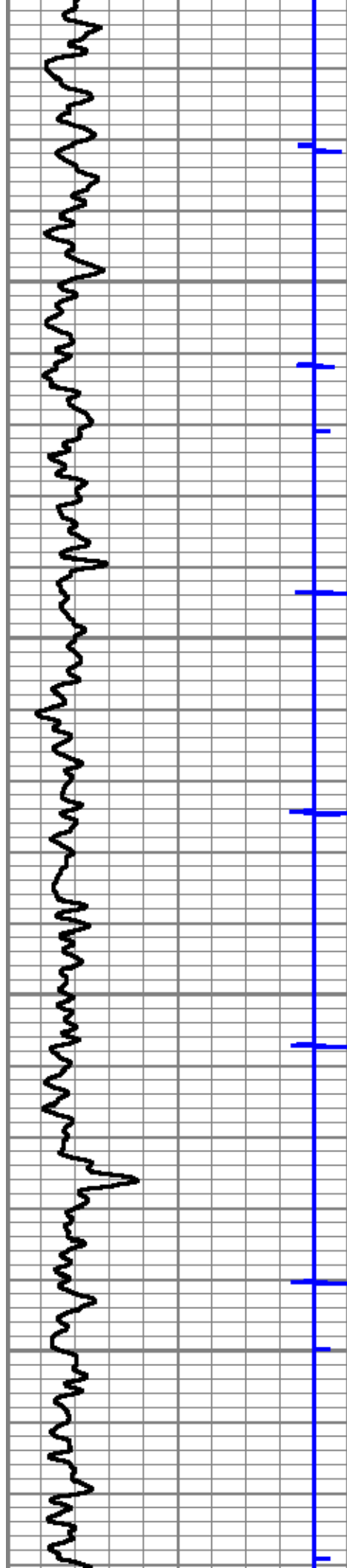
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1750

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1850



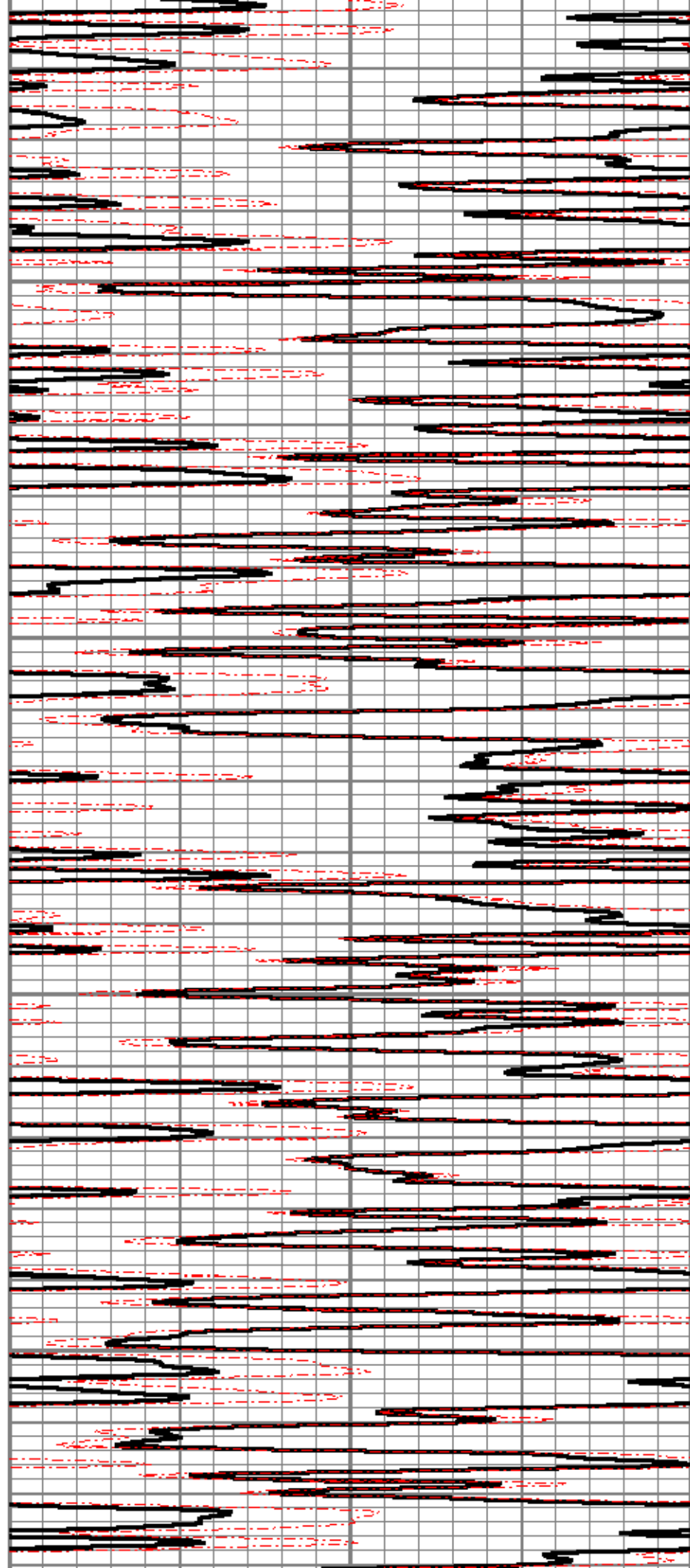


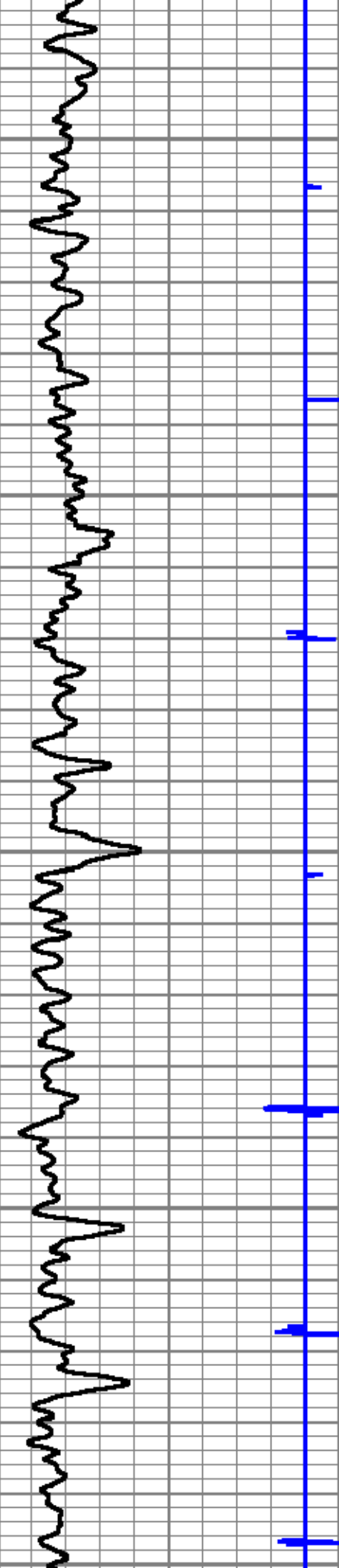
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1950

2000

2050





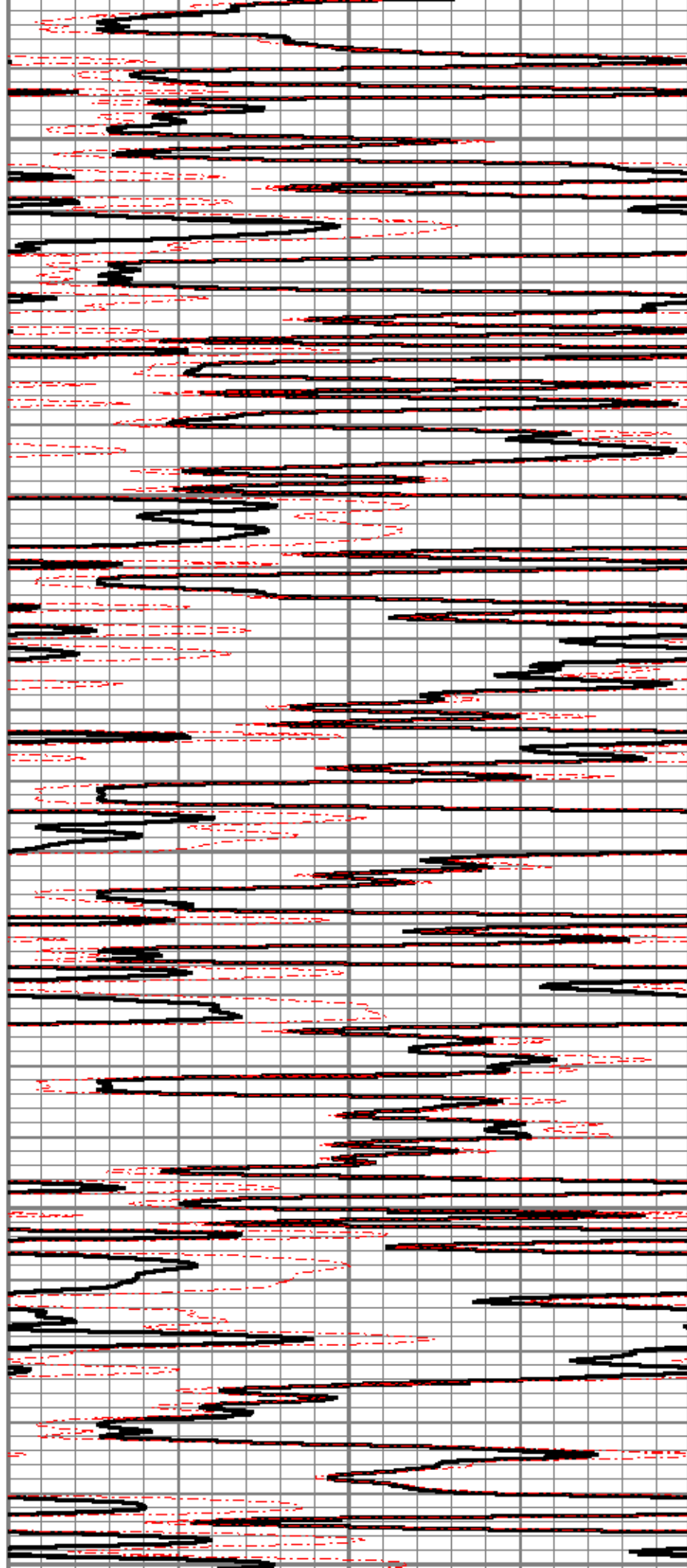
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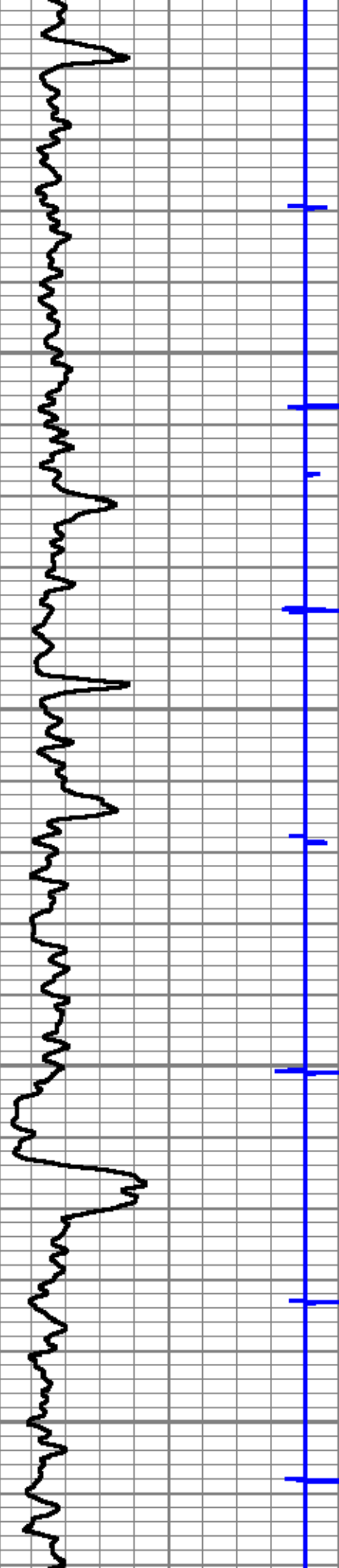
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2200

2250

2300



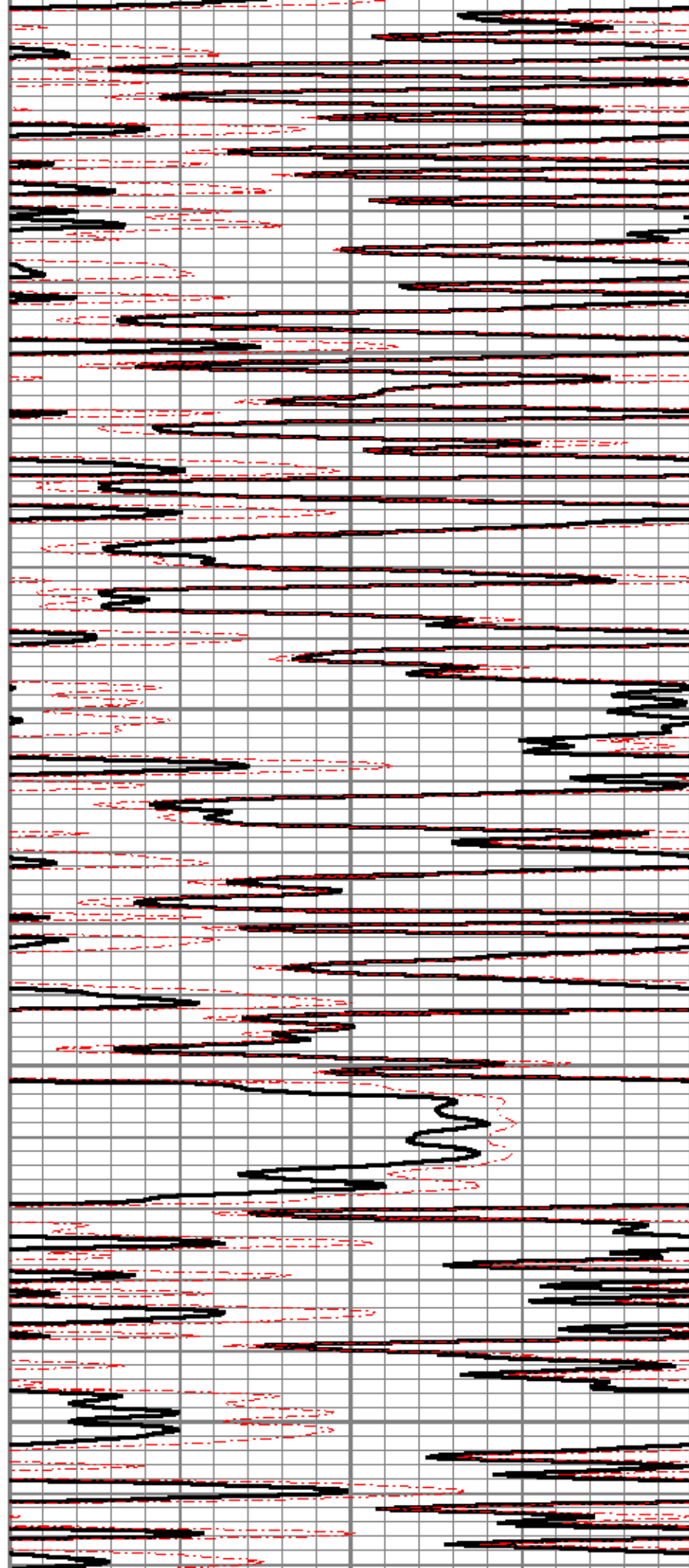


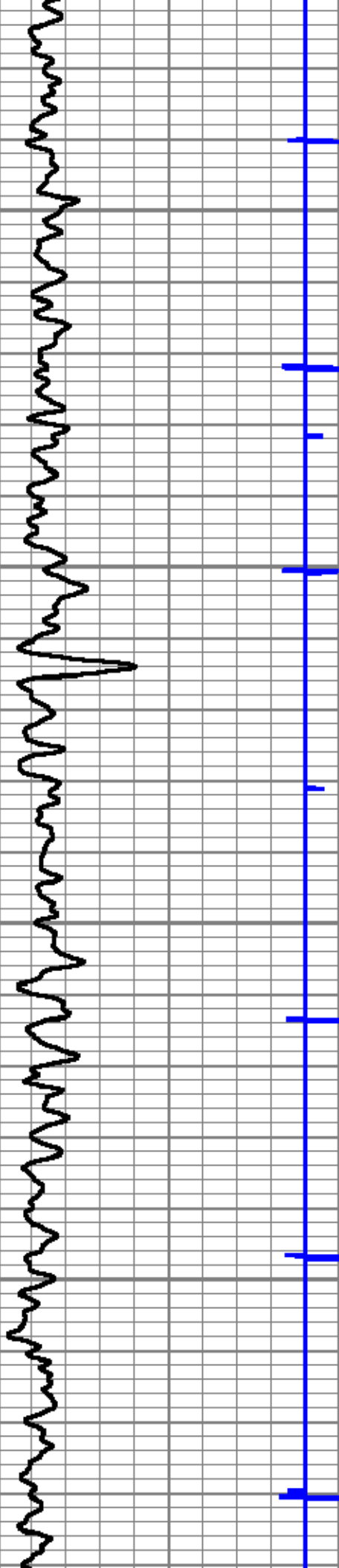
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2400

2450

2500



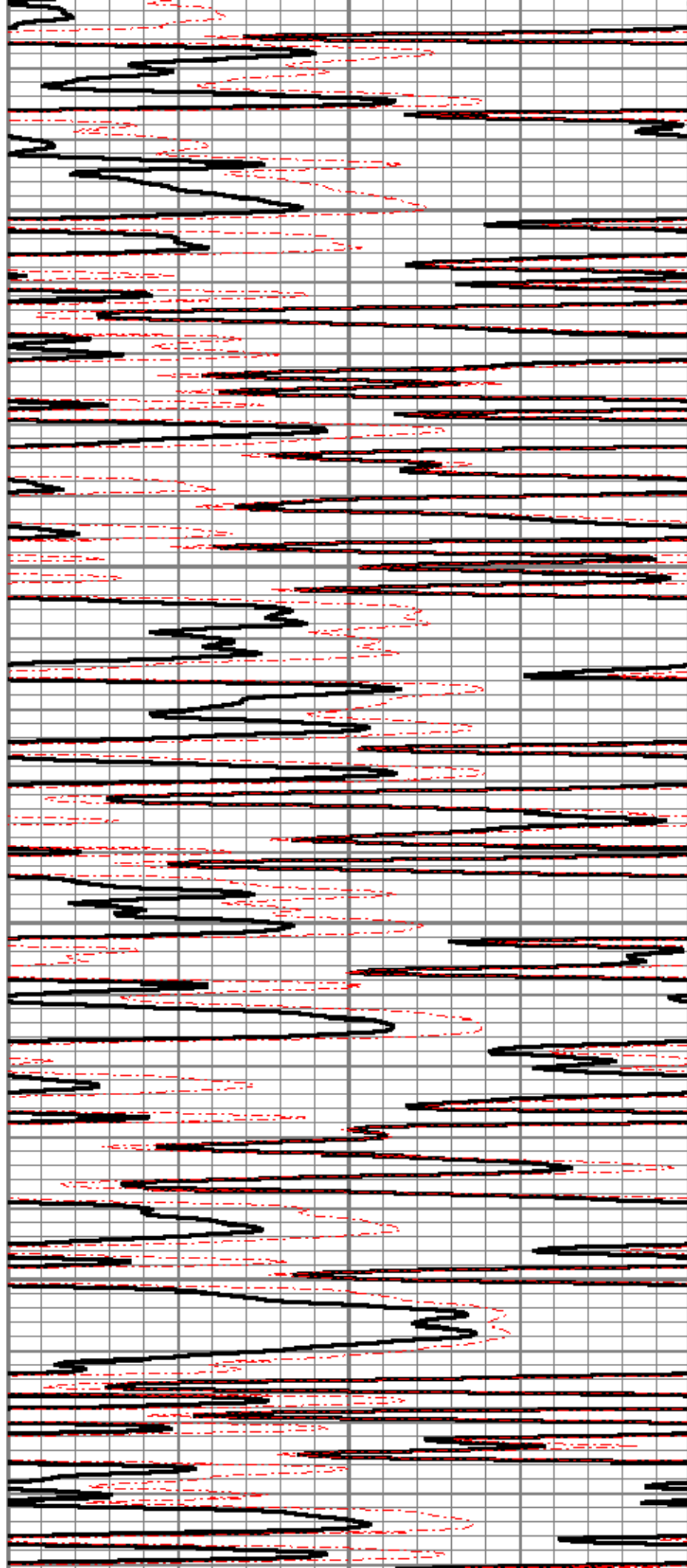


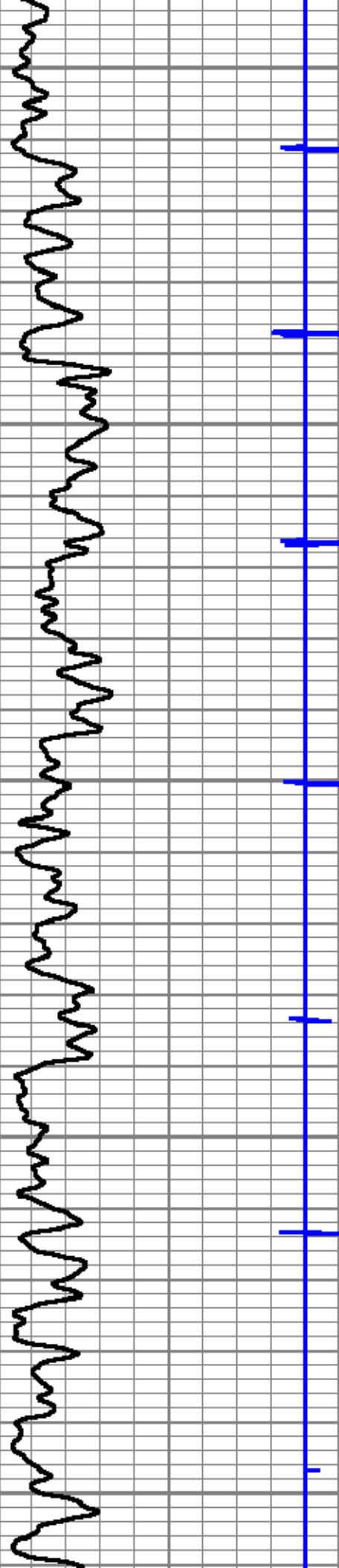
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2700





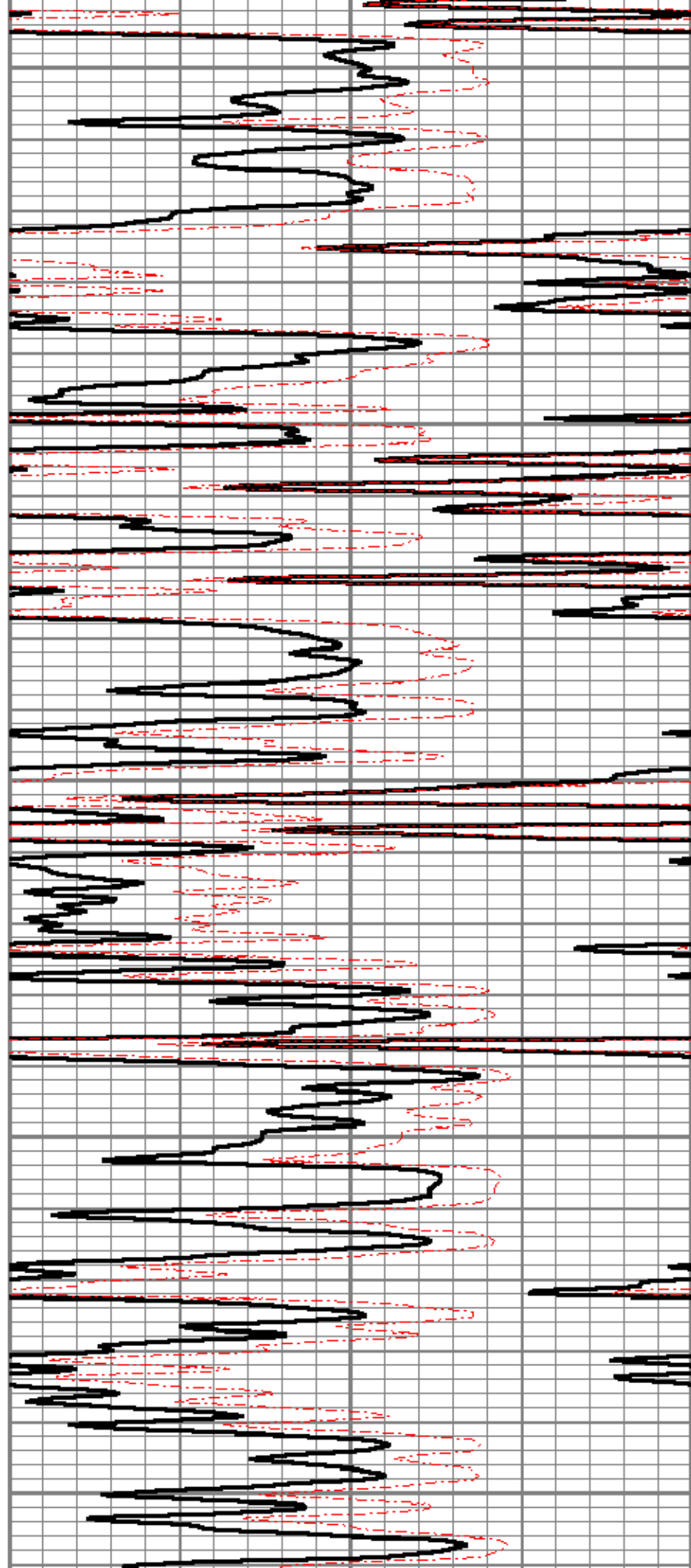
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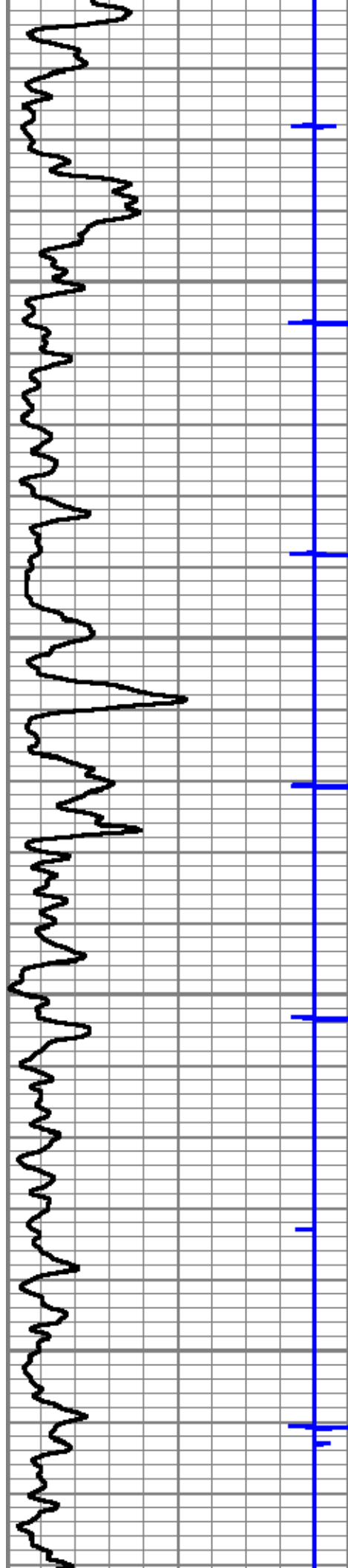
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2850

2900

2950



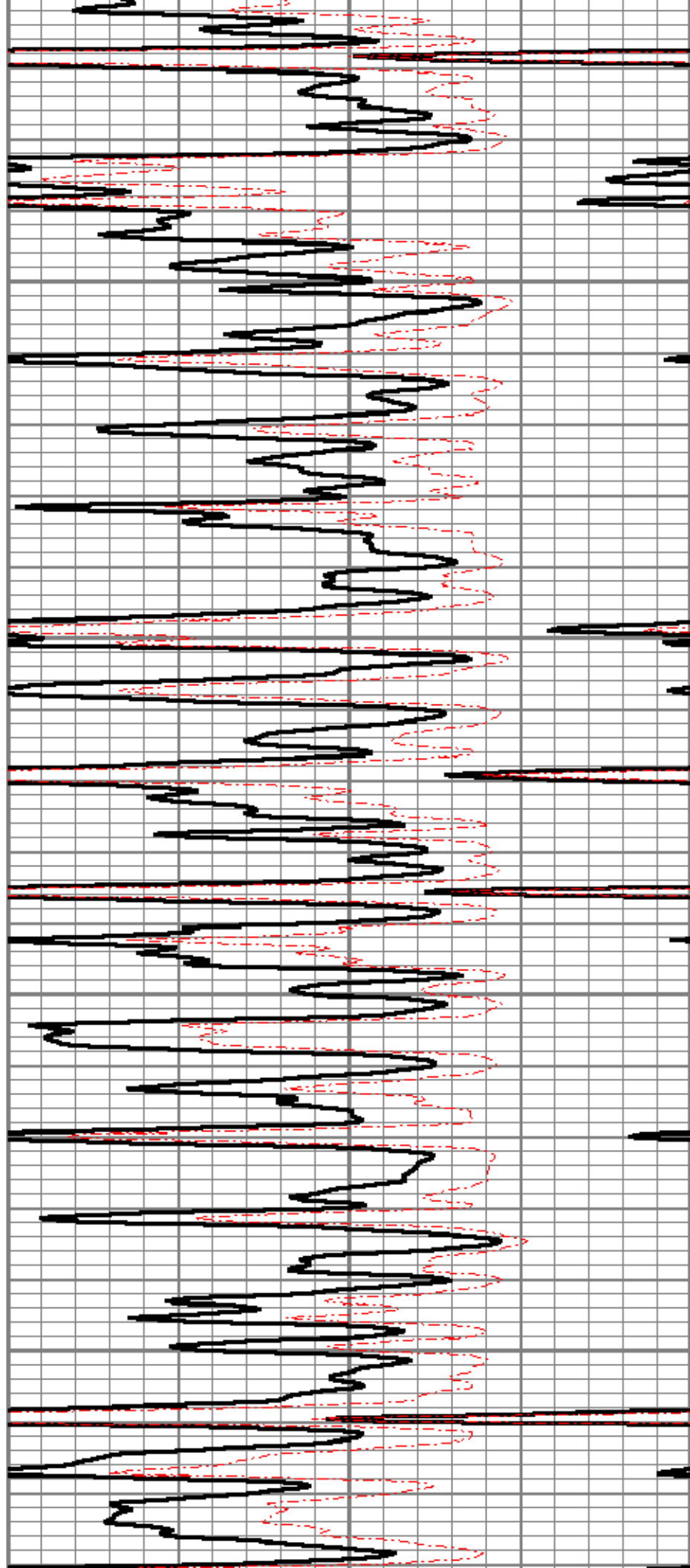


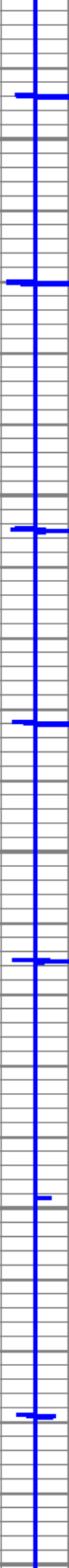
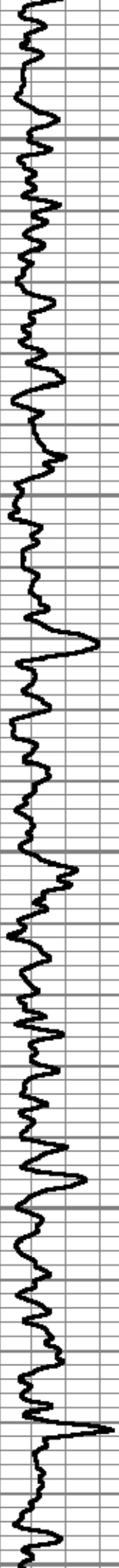
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3050

3100

3150





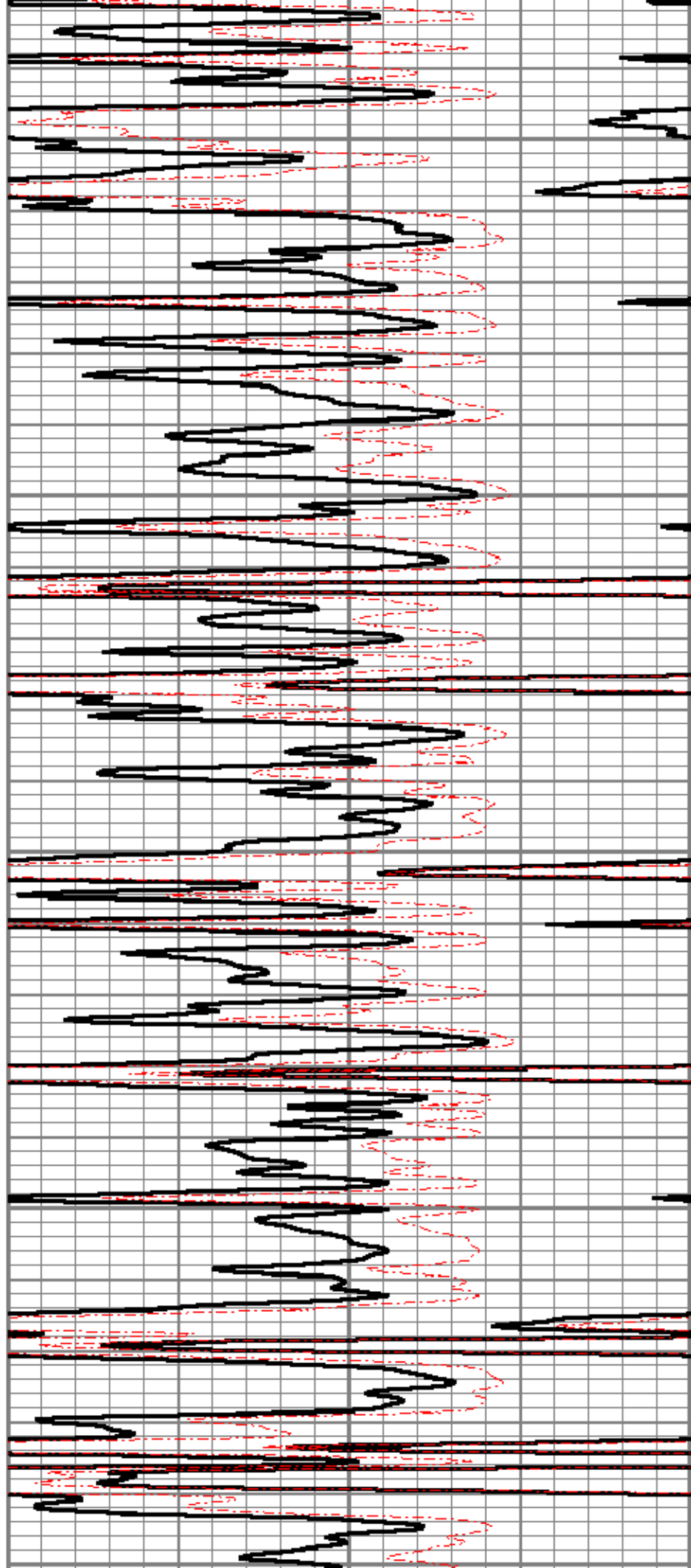
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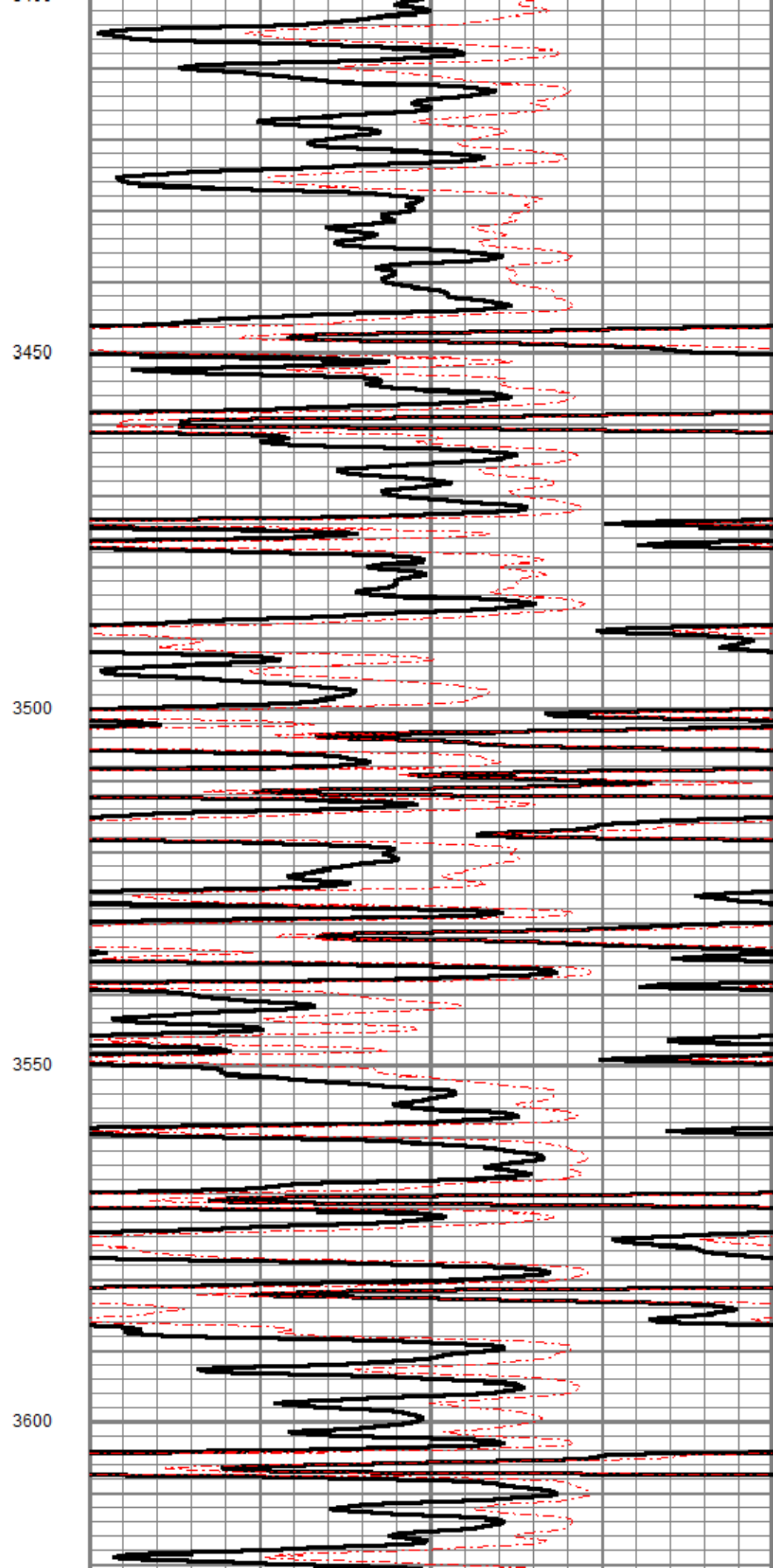
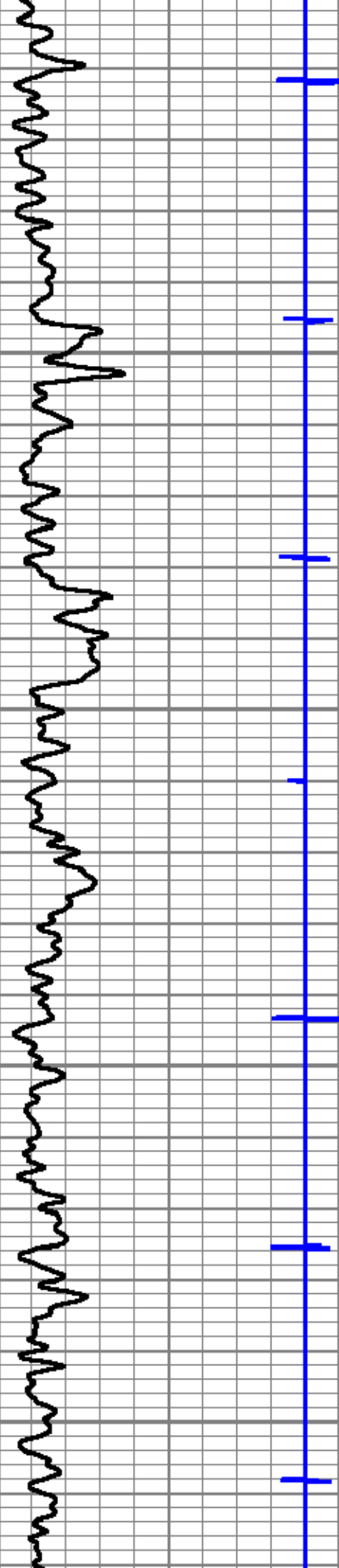
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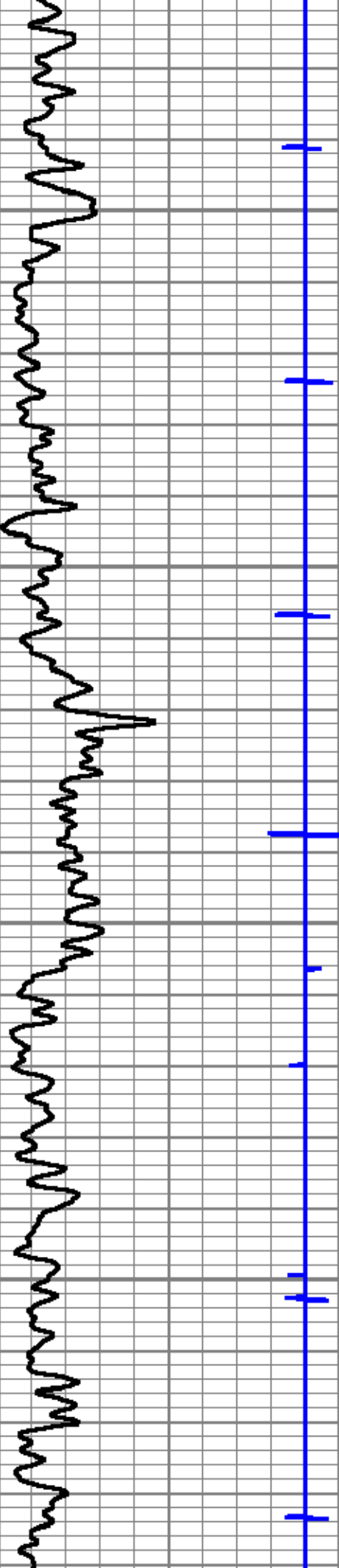
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3350

3400





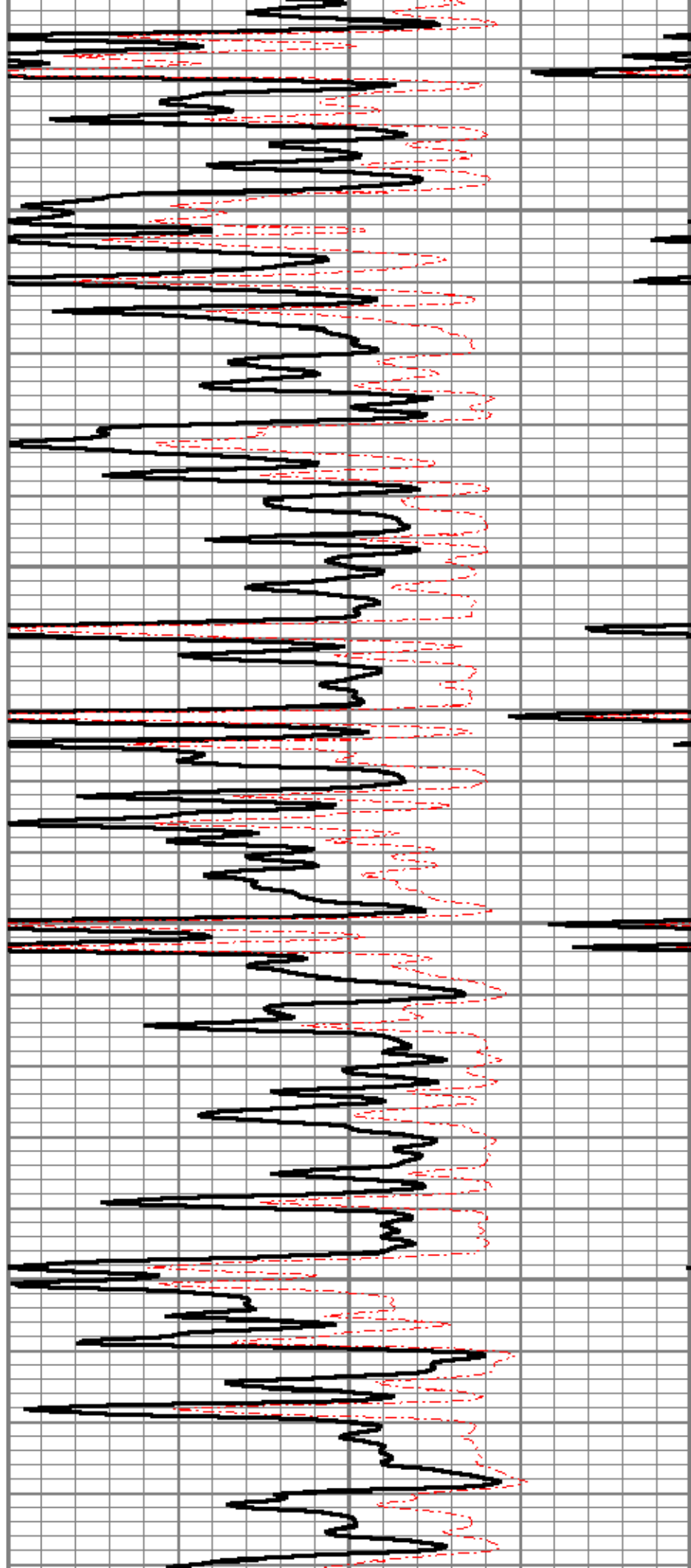


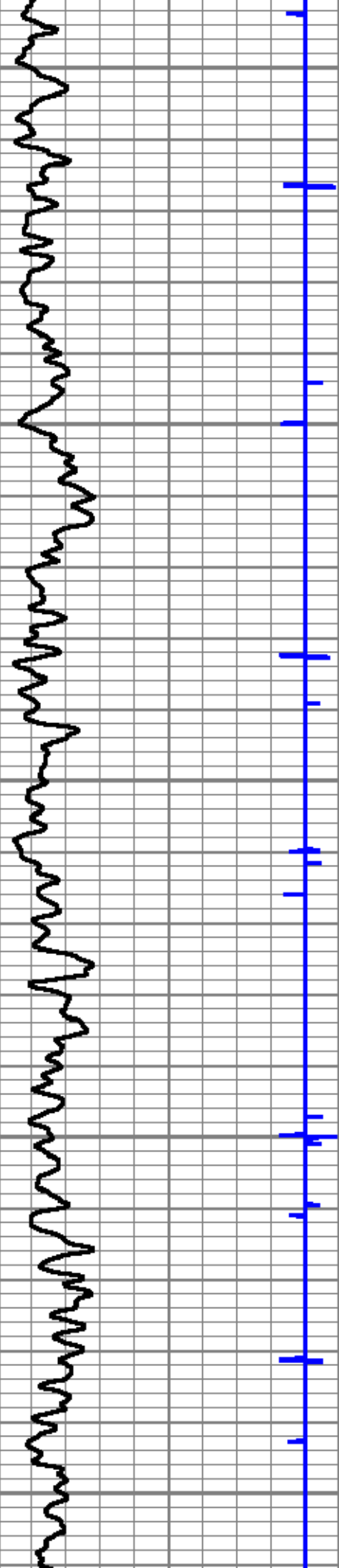
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3700

3750

3800





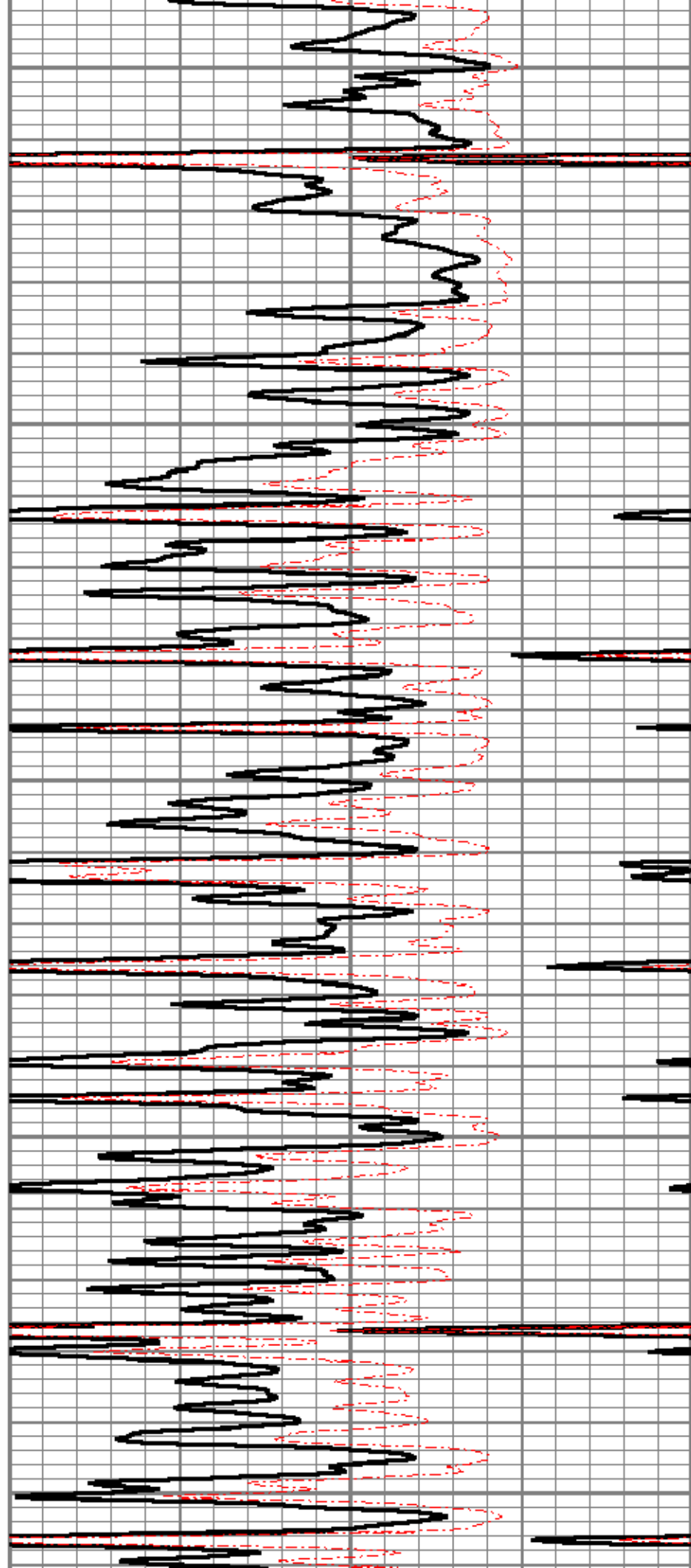
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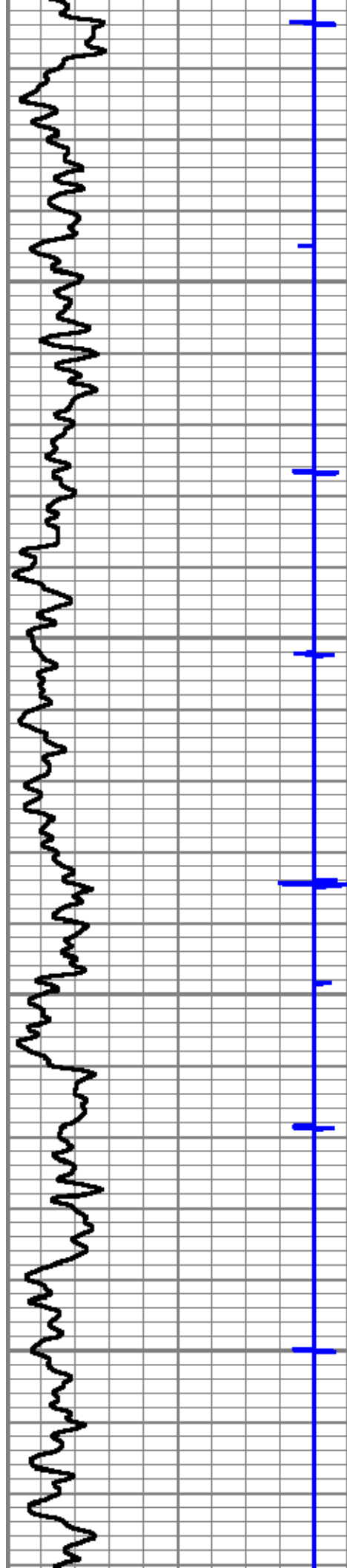
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3950

4000

4050



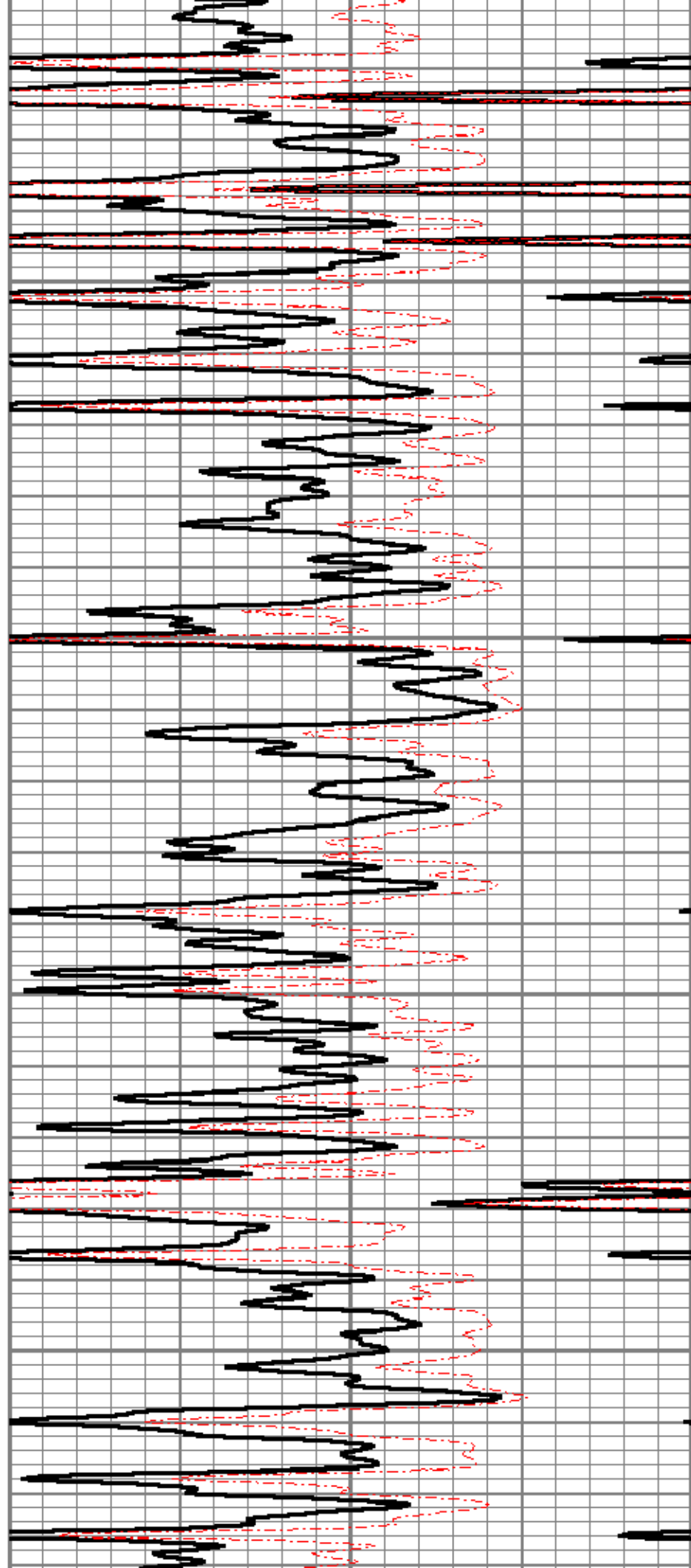


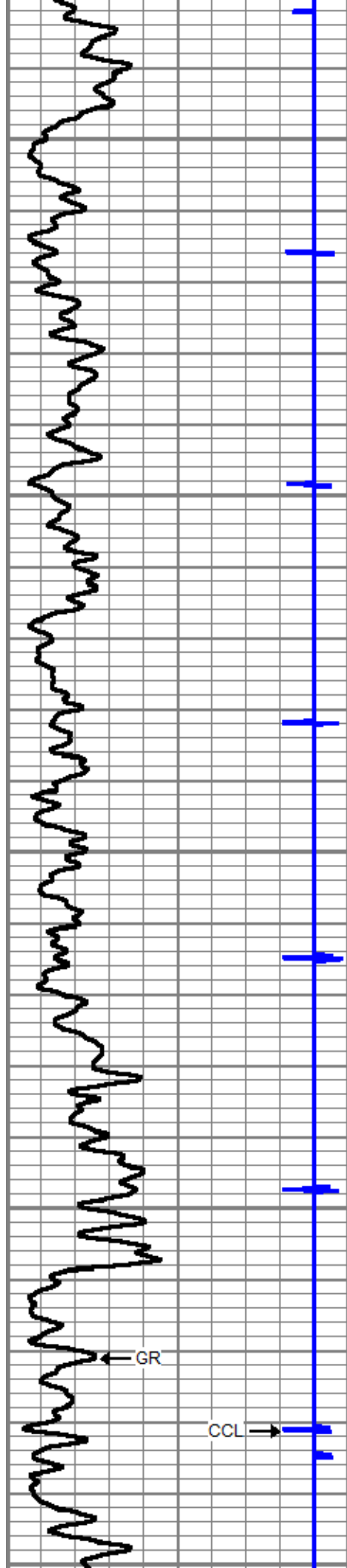
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4150

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4250





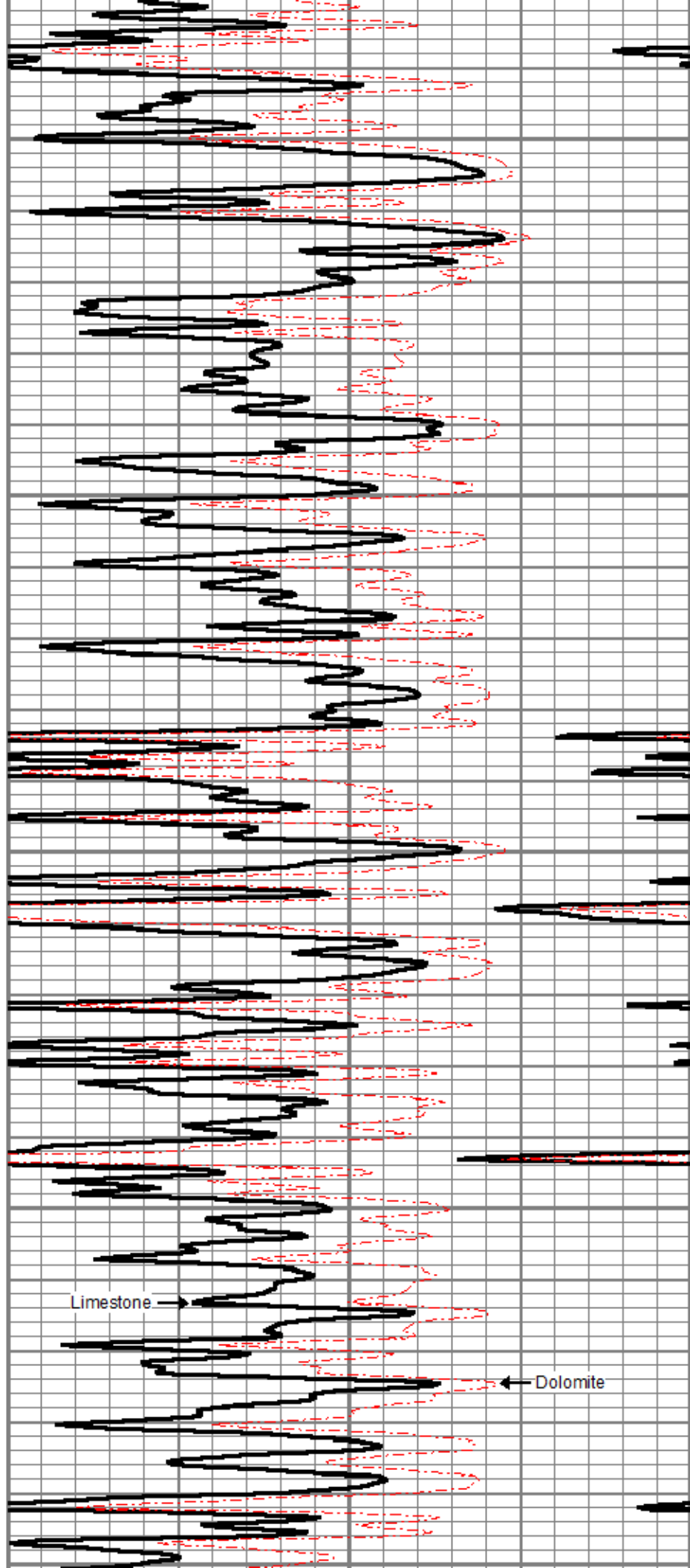
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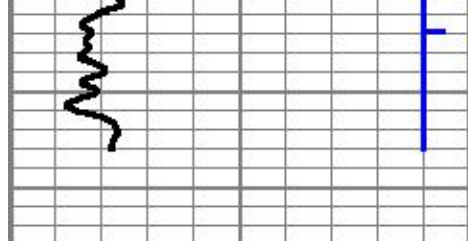
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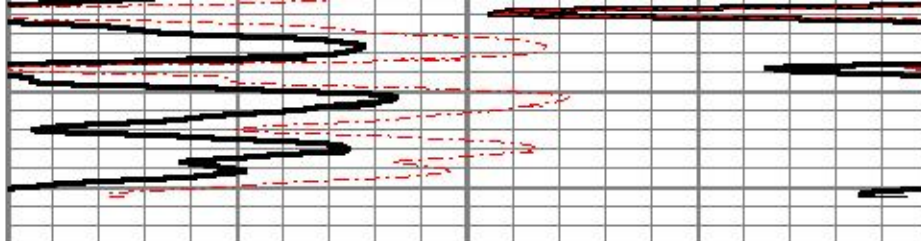
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4500





0	LTEN (lb)	4000
0	GR (GAPI)	150
-9	CCL	1



30	Limestone (pu)	-10
30	Dolomite (pu)	-10

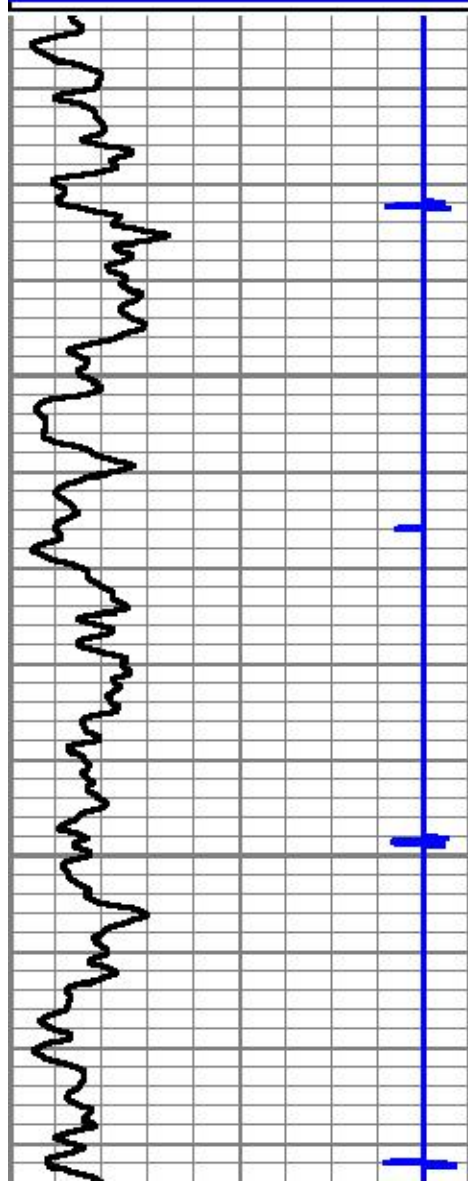


REPEAT PASS

Database File Ilano disposal state 27 #1.db
 Dataset Pathname pass3.1
 Presentation Format cntcnts
 Dataset Creation Tue May 22 13:20:22 2018
 Charted by Depth in Feet scaled 1:240

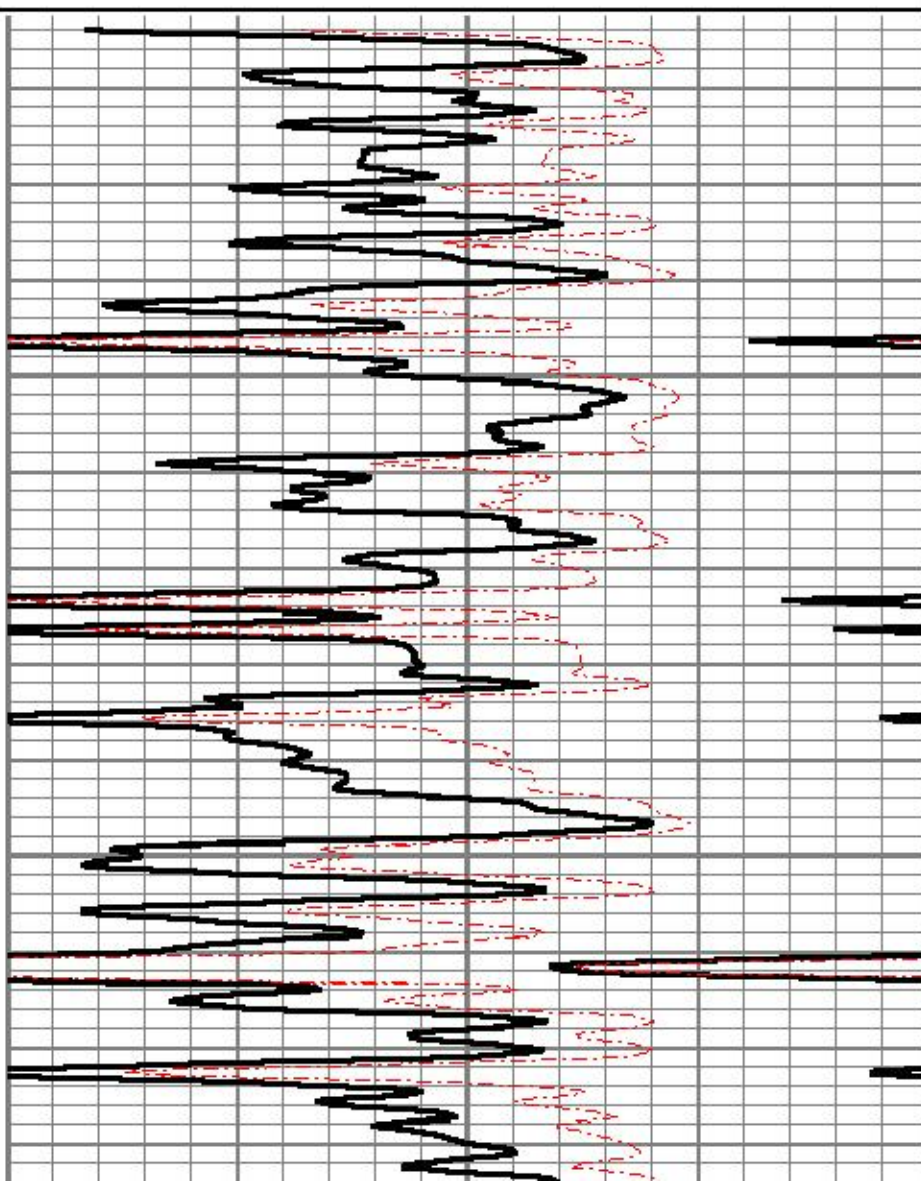
0	LTEN (lb)	4000
0	GR (GAPI)	150
-9	CCL	1

30	Limestone (pu)	-10
30	Dolomite (pu)	-10



4300

4350



Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
 BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASED? : Cased hole ?
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 CASEWGHT : Casing Weight
 CMNTTHCK : Cement Thickness
 CMTTKCOR : CN CemThk. Cor. ?
 CSTKCOR : CN CasThk. Cor. ?

MAXAMPL : Maximum Amplitude
 MINAMPL : Minimum Amplitude
 MINATTN : Minimum Attenuation
 NPORSEL : Neutron Porosity Curve Select
 PERFS : Perforation Flag
 PPT : Predicted Pipe Time
 SRFTEMP : Surface Temperature
 SZCOR : CN Size Cor. ?
 TDEPTH : Total Depth

Calibration Report

Database File Ilano disposal state 27 #1.db
 Dataset Pathname pass4
 Dataset Creation Tue May 22 11:29:16 2018

Compensated Neutron Calibration Report

Model: CNT - Probe_B
 Serial Number: 100525

SHOP CALIBRATION

Tue May 08 10:33:48 2018

	Cal Tube	Units
Tank Ratio	11.6940	SS/LS
LS Detector	71.36	cps
SS Detector	777.51	cps
Tool Ratio	10.8963	SS/LS
Tool Gain	1.0732	---

PRE-SURVEY VERIFICATION

SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
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POST-SURVEY VERIFICATION

SS Detector	LS Detector	Measured (p.u.)	Target (p.u.)
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Gamma Ray Calibration Report

Serial Number:	120366	
Tool Model:	Probe275dig	
Performed:	Tue May 08 10:37:36 2018	
Calibrator Value:	1092.0	GAPI
Background Reading:	73.0	cps
Calibrator Reading:	1312.7	cps
Sensitivity:	0.8809	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1311-15	
Tool Model:	Probe	
Calibration Casing Diameter:	9.625	in
Calibration Depth:	167.783	ft

Master Calibration, performed Tue May 22 10:19:34 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.025	0.837	1.000	51.280	61.950	-0.564
CAL	-0.000	1.094				
5'	0.016	0.898	1.000	51.280	56.980	0.116
SUM						
S1	0.015	0.678	0.000	100.000	150.902	-2.258
S2	0.029	0.785	0.000	100.000	132.157	-3.799
S3	0.027	0.946	0.000	100.000	108.835	-2.904
S4	0.025	1.032	0.000	100.000	99.287	-2.505
S5	0.022	0.991	0.000	100.000	103.264	-2.299
S6	0.026	0.874	0.000	100.000	117.903	-3.032
S7	0.021	0.674	0.000	100.000	152.961	-3.157
S8	0.033	0.755	0.000	100.000	138.369	-4.506

Internal Reference Calibration, performed Sat Mar 22 12:18:28 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	1.094	1.000	0.000

Air Zero Calibration, performed Mon Jun 02 11:27:25 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Temperature Calibration Report

Serial Number: FW1311-15
Tool Model: Probe
Performed: (Not Performed)

	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF

Gain: 1.00
Offset: 0.00
Delta Spacing: 1

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-1.6875CHD	1.00	1.69	10.00
			CENT-Roller	2.75	2.75	35.00

			CENT-Roller	2.75	2.75	35.00
TEMP	18.95					
WVFS8	16.74		RBT-Probe (FW1311-15) Probe Radii Bond Tool with Digital Telemetry	8.83	2.75	93.00
WVFS7	16.74					
WVFS6	16.74					
WVFS5	16.74					
WVFS4	16.74					
WVFS3	16.74					
WVFS2	16.74					
WVFS1	16.74					
WVFCAL	16.74					
WVF3FT	16.74					
WVF5FT	15.74		CENT-Roller	2.75	2.75	35.00
CCL	8.91					
GR	7.57		GR-Probe275dig (120366) Probe Digital Gamma CCL	4.77	2.75	57.00
			CNT-Probe_B (100525) Probe Digital CNL Tool	5.03	2.75	60.00
CNLSC	1.65					
CNSSC	1.24					
Dataset: llano disposal state 27 #1.db: field/well/run1/pass4 Total length: 25.14 ft Total weight: 290.00 lb O.D.: 2.75 in						



Company LLANO DISPOSAL LLC.
 Well STATE 27 #1
 Field



MAIN PASS

Database File ilano disposal state 27 #1.db
Dataset Pathname pass4.1
Presentation Format on11inch
Dataset Creation Tue May 22 13:18:28 2018
Charted by Depth In Feet scaled 1:1200

0 GR (GAPI) 150 30 CNPOR (pu) -10

