



Pioneer Energy Services

# Gamma Ray / Neutron Log

API No.

15-109-21186-00-00

Company **Morris Oil Operations**

Well **Marguerite No. 4**

Field

County **Russell**

State **Kansas**

Location

**950' FSL & 330' FWL**

Other Services  
GRCBL

Sec: **6** Twp: **15 S** Rge: **13 W**

Permanent Datum **Ground Level** Elevation **1852**

Log Measured From **Kelly Bushing** **9** Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Elevation

K.B. 1861

D.F. 1852

G.L. 1852

Date **09/05/2013**

Run Number **One**

Type Log **GRN**

Depth Driller **3350**

Depth Logger **3333**

Bottom Logged Interval **3332**

Top Logged Interval **0**

Type Fluid In Hole **Water**

Salinity, PPM CL **////**

Density **////**

Level **Full**

Max. Rec. Temp. F **109**

Operating Rig Time **2 Hrs.**

Equipment -- Location **18 Hays**

Recorded By **D. Hagan**

Witnessed By **Bill Morris**

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
				8.625		0	557
				5.5		0	3349

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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

Thank you for using Pioneer Energy Services  
 785.625.3858  
  
 Russell, Ks. South to Winterset Rd.  
 1 East, 1 South, 1 East, 1.2 North,  
 East Into

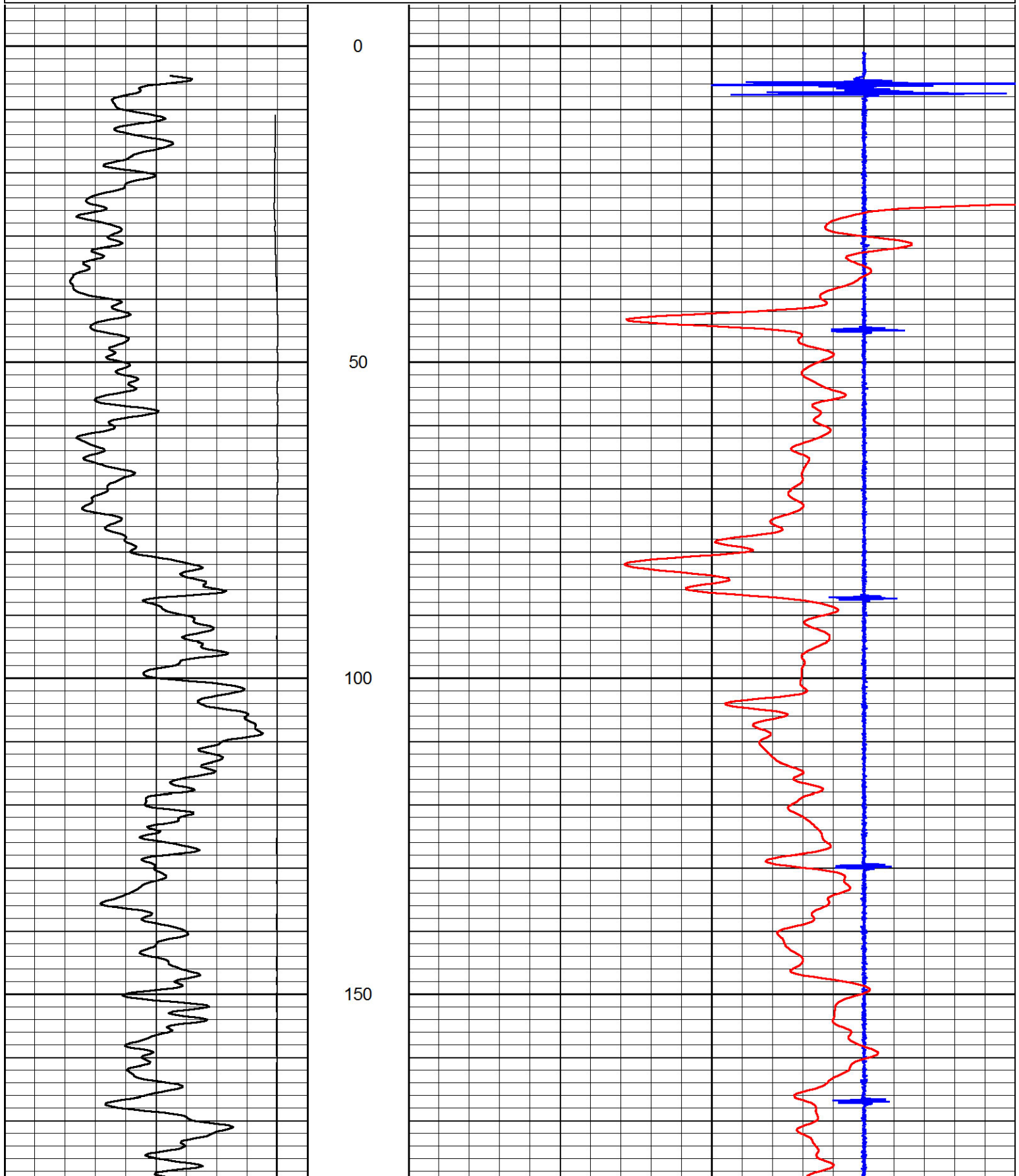


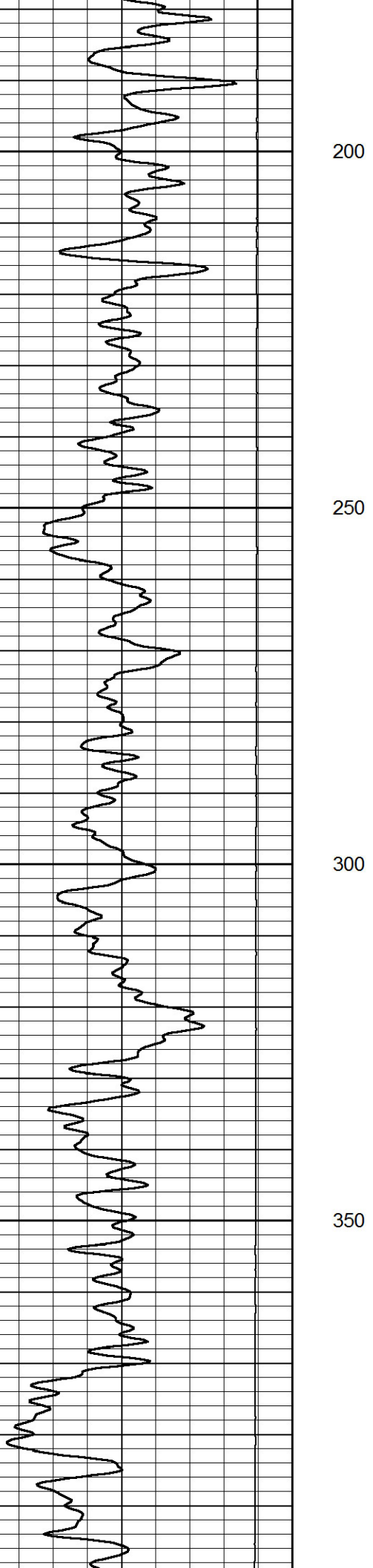
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Dataset Pathname: grcblgrn/pass4.1  
Presentation Format: gr-ccl  
Dataset Creation: Thu Sep 05 13:26:22 2013  
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
5000	Iten (lb)	0

50	Neutron (NAPI)	825
5	Casing Collars	-5



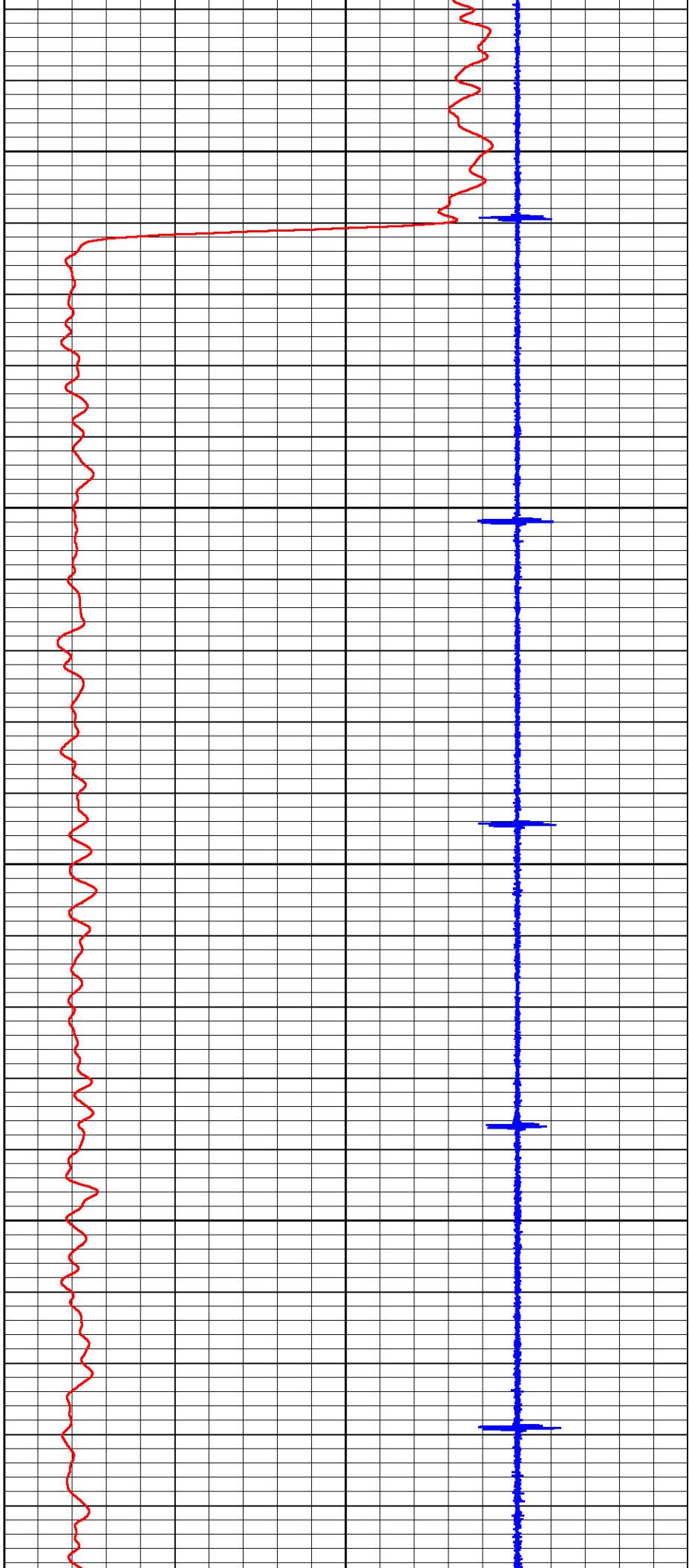


200

250

300

350

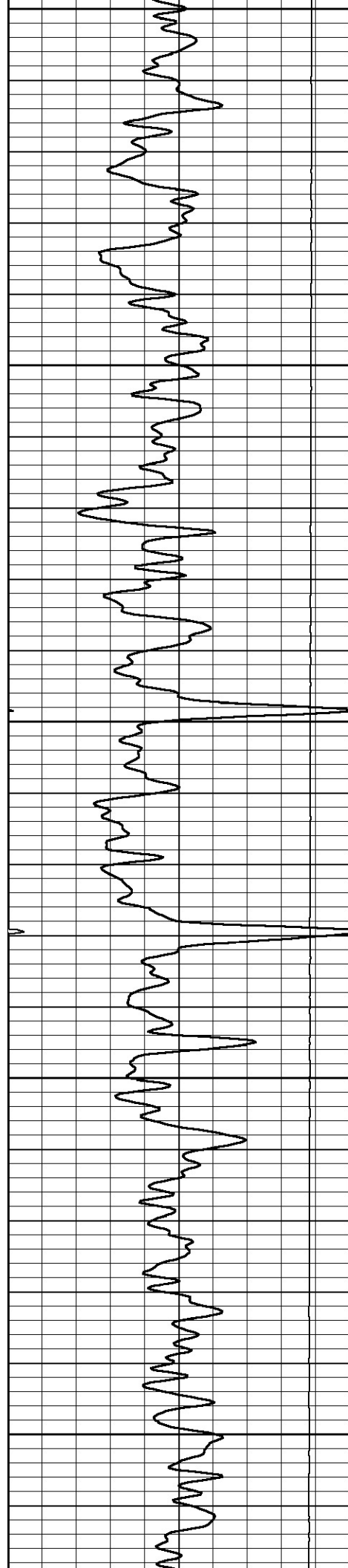


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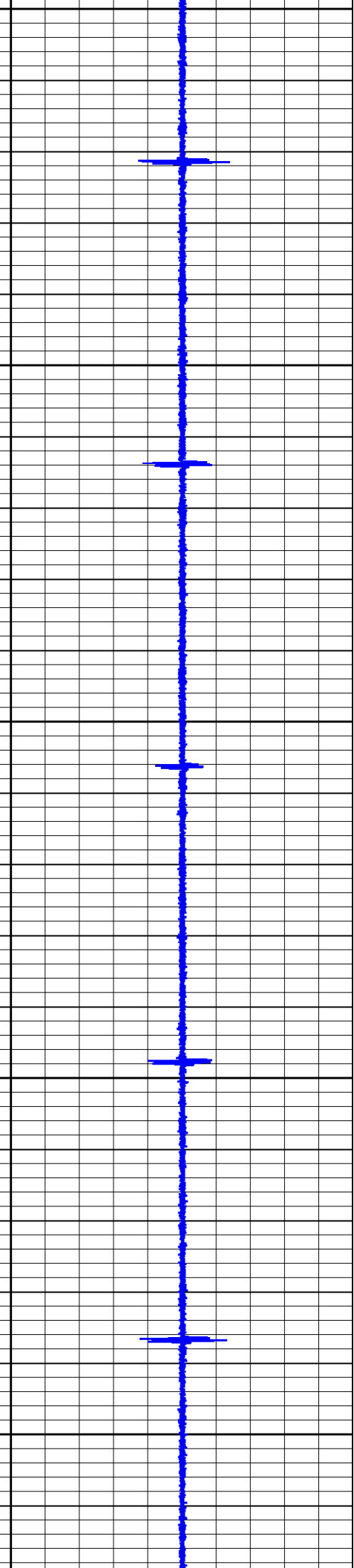
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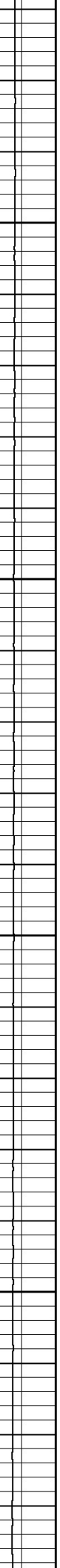
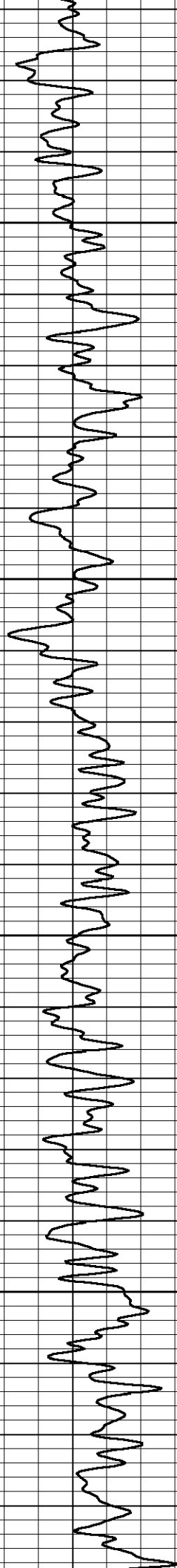
300

350



400  
450  
500  
550  
600



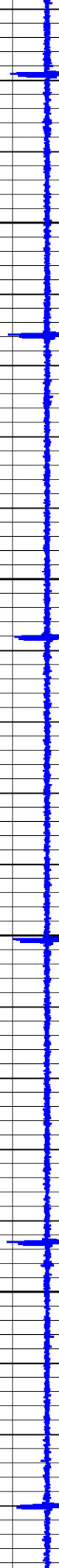


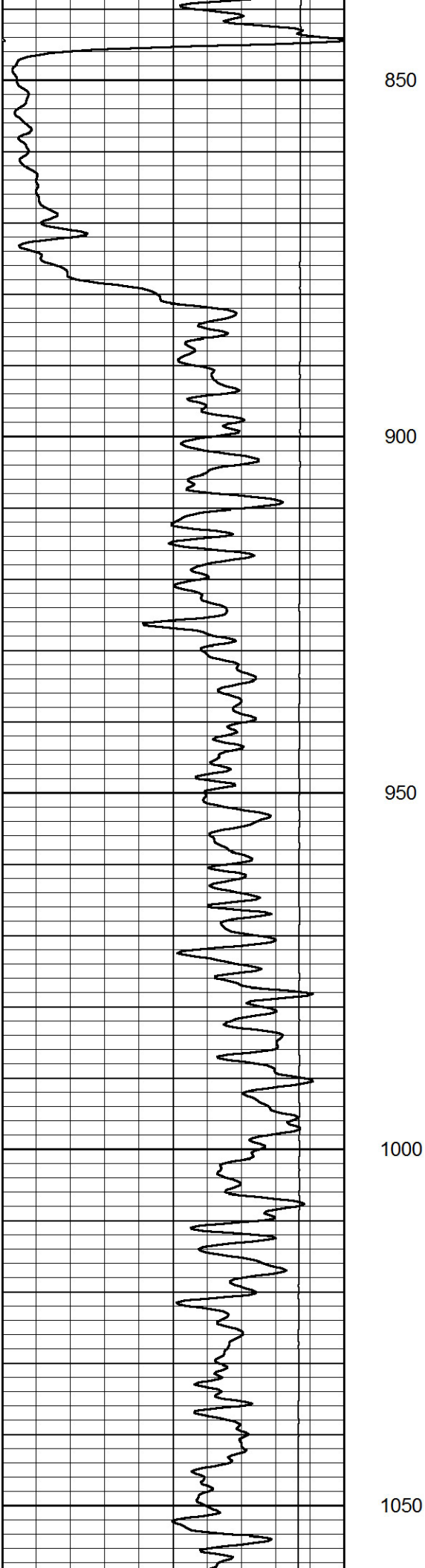
650

700

750

800





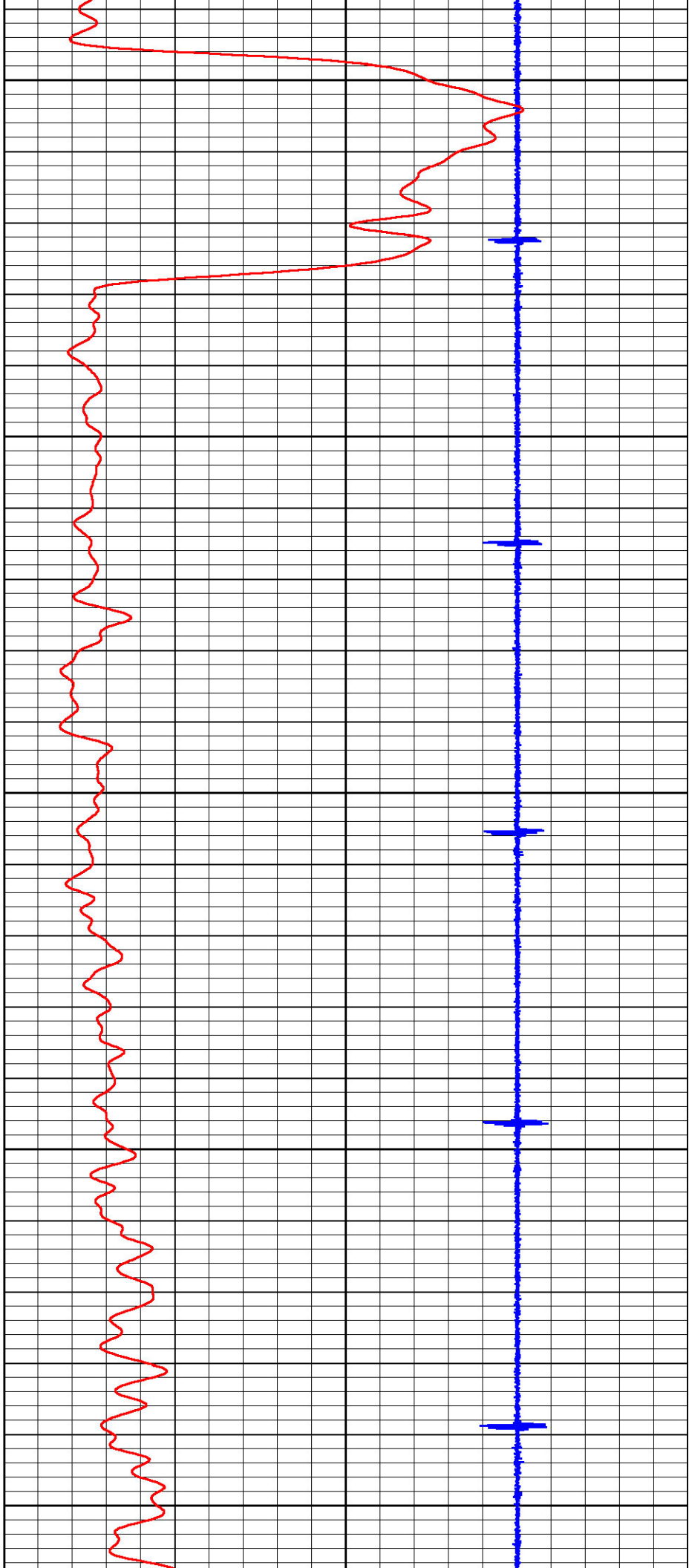
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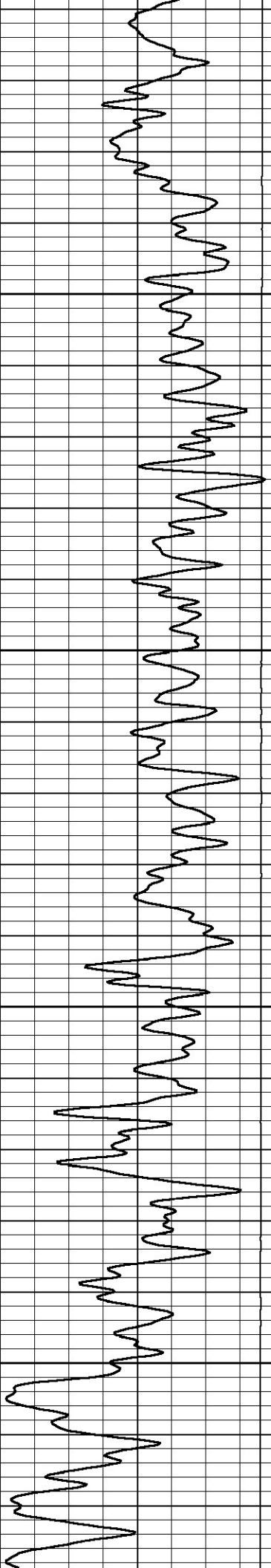
900

950

1000

1050



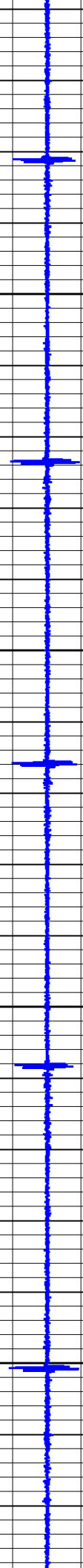
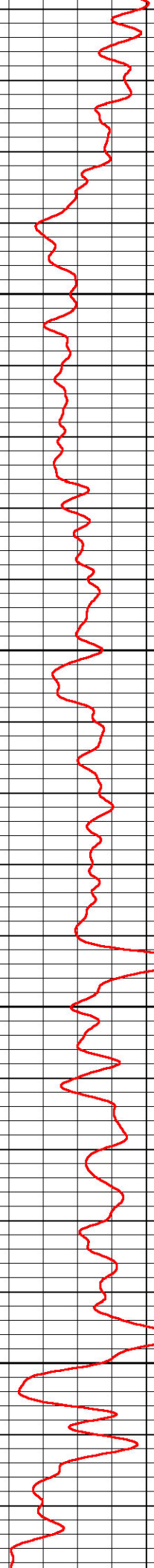


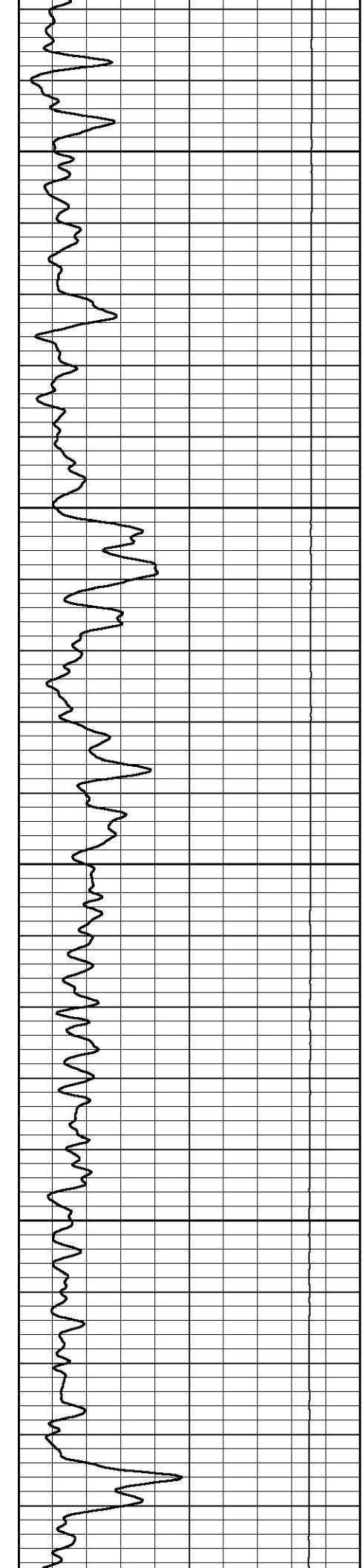
1100

1150

1200

1250



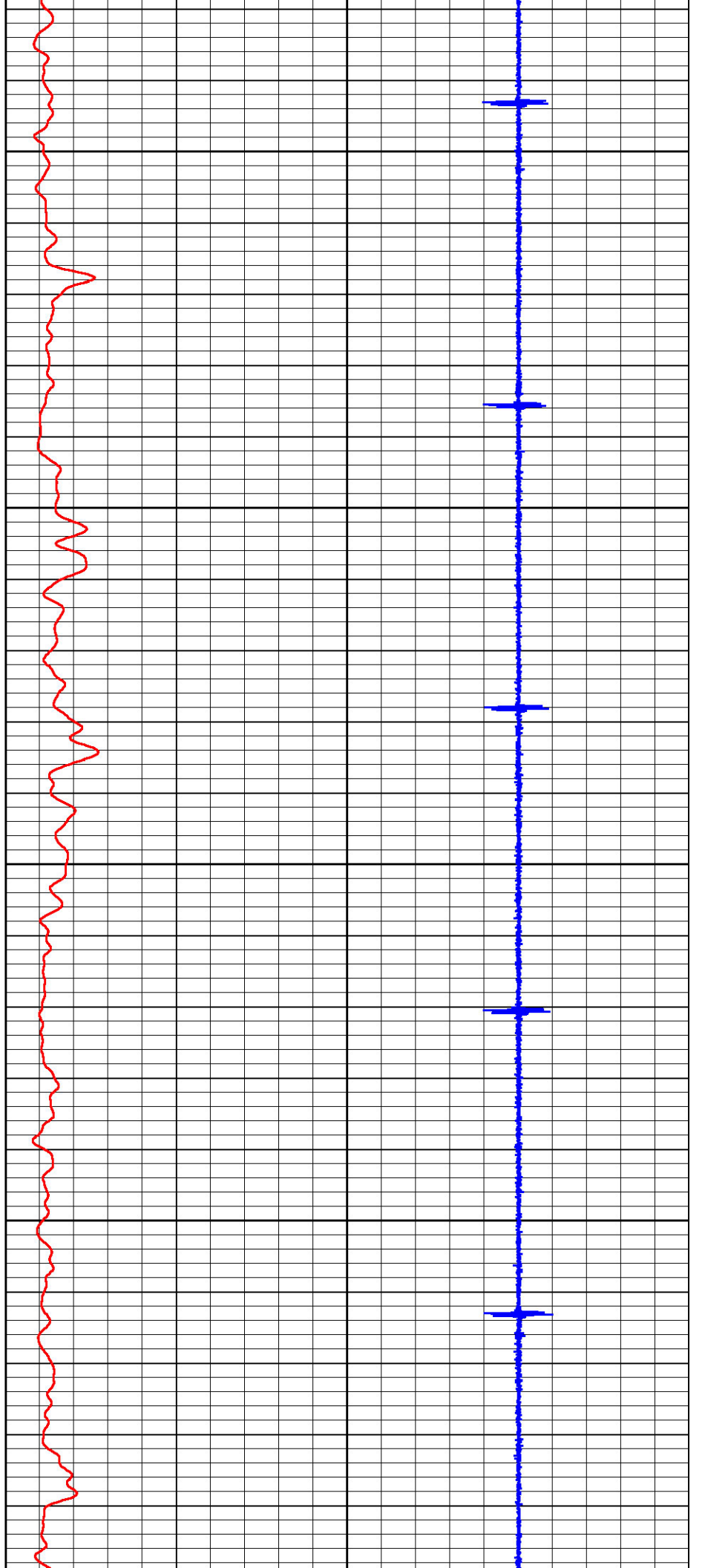


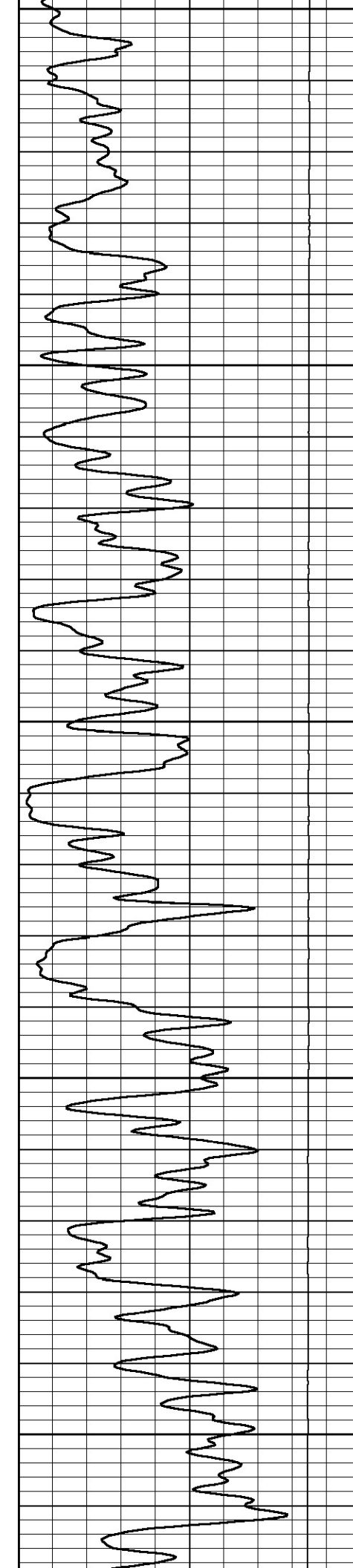
1300

1350

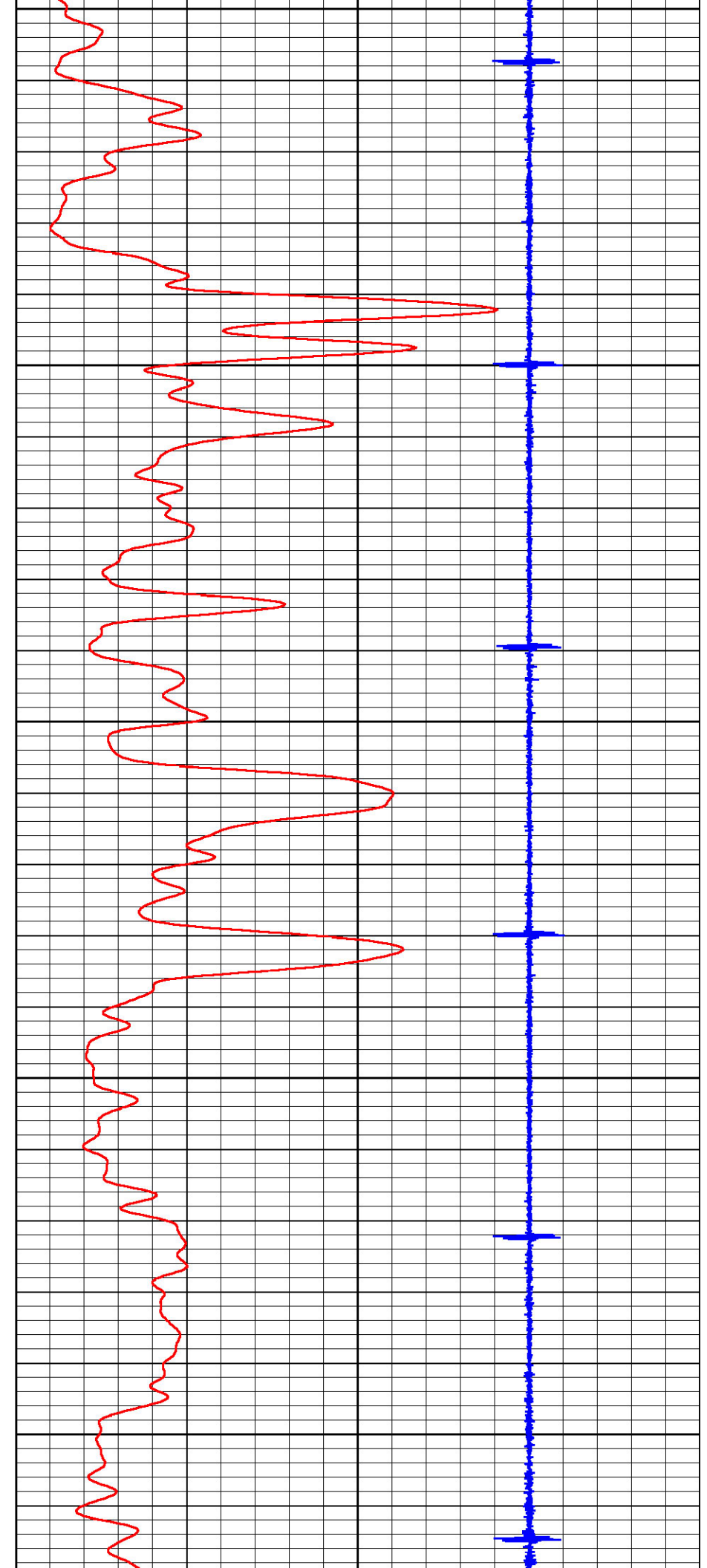
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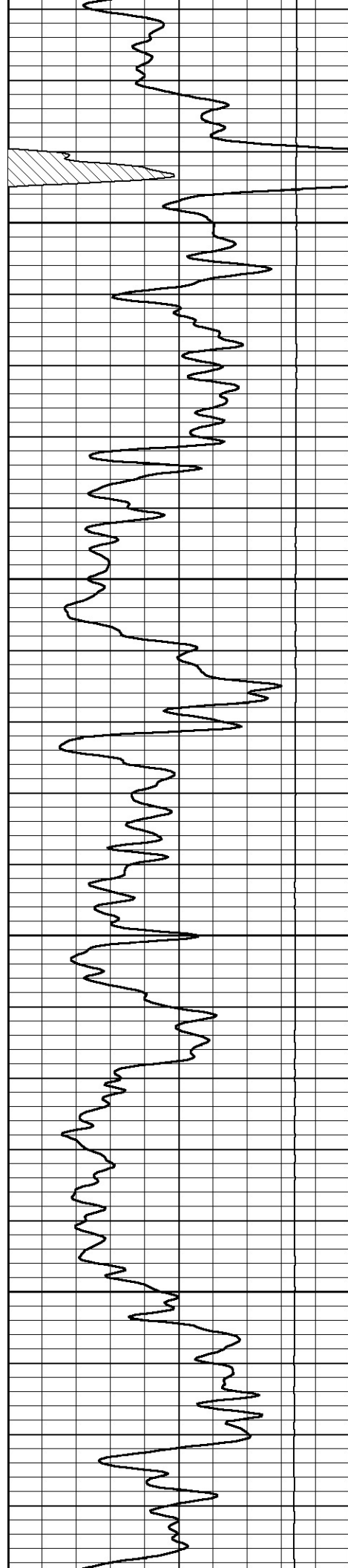
1450





1500  
1550  
1600  
1650  
1700



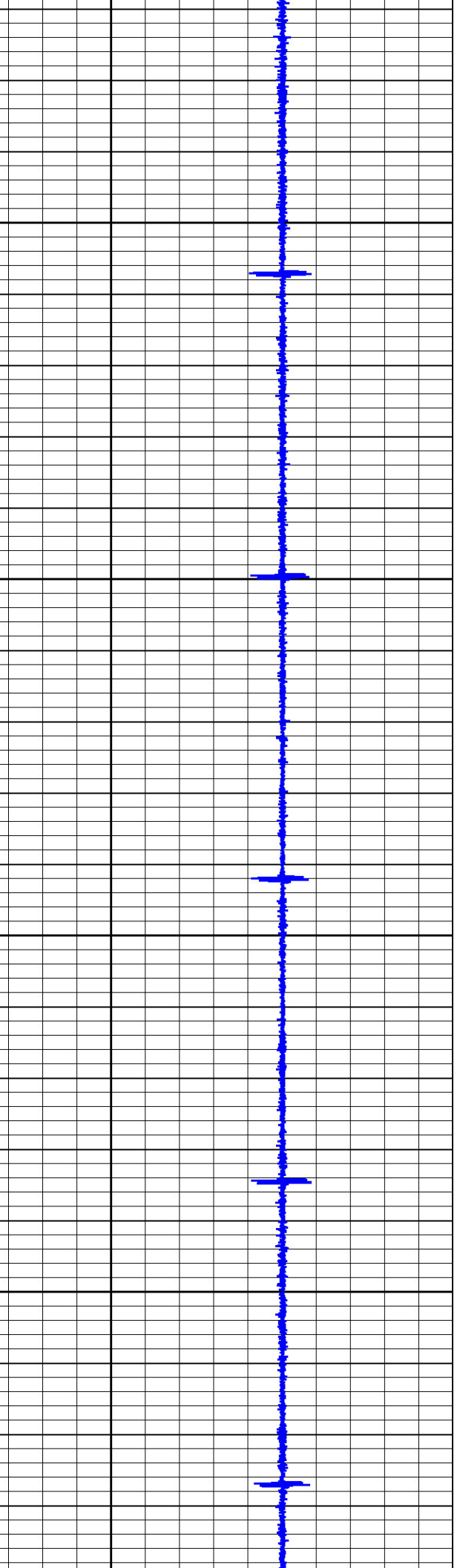
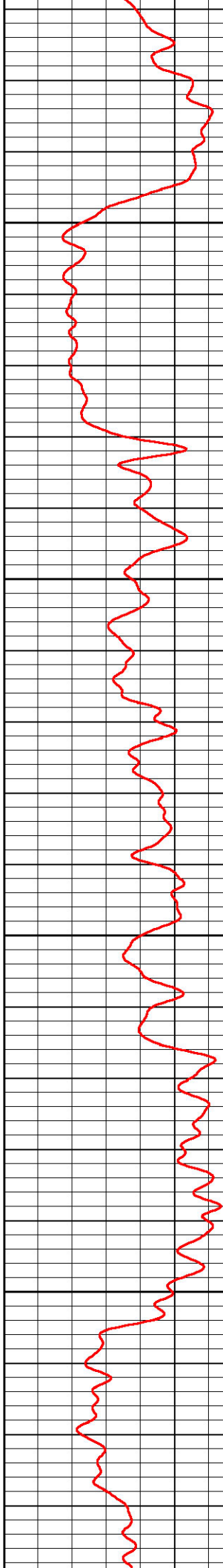


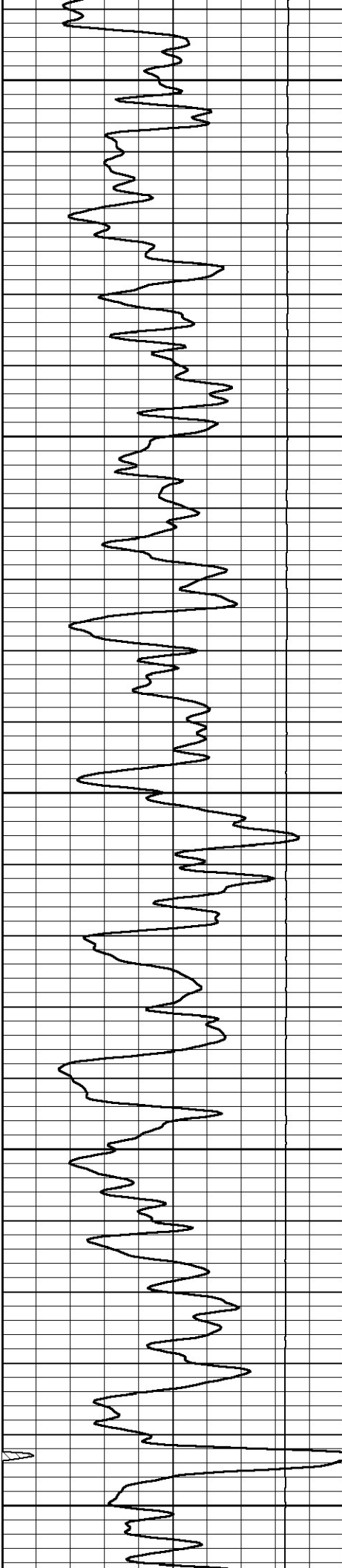
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1800

1850

1900





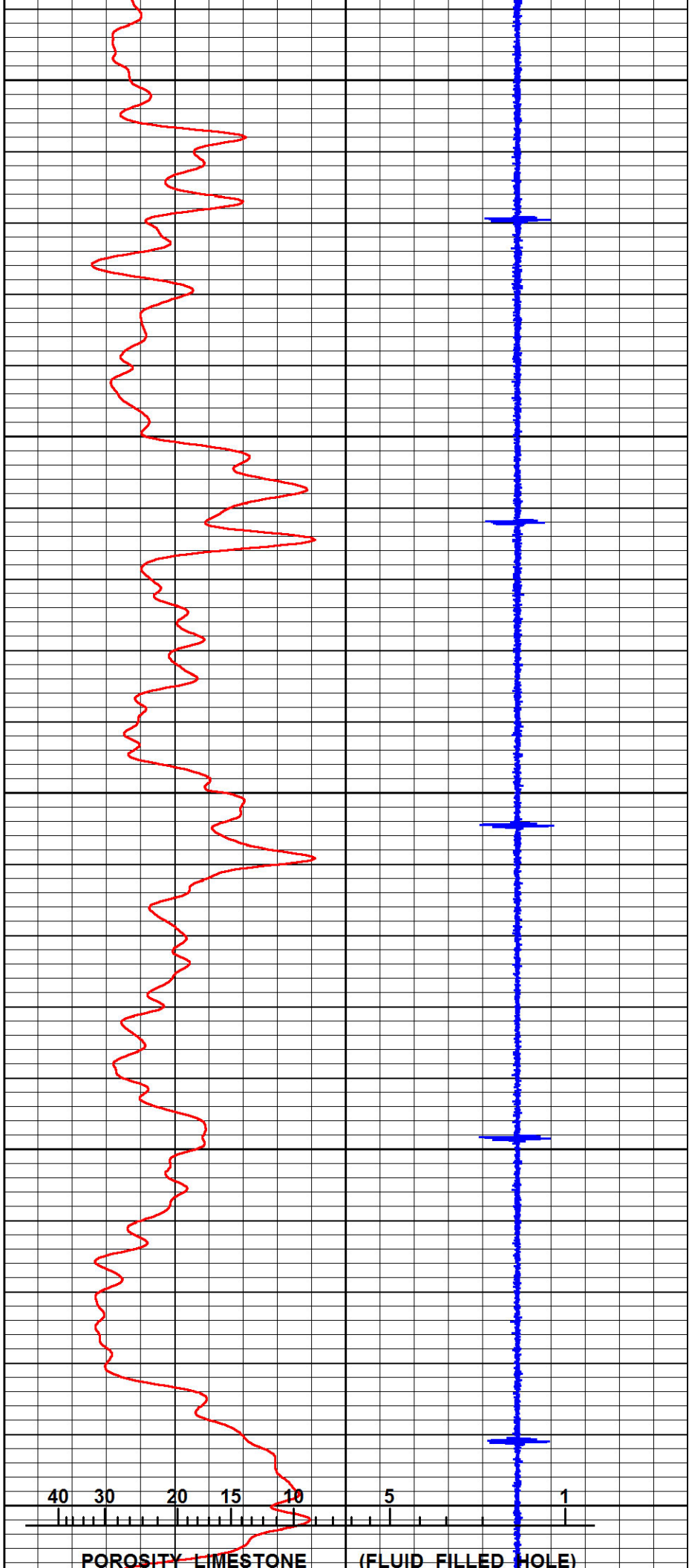
1950

2000

2050

2100

2150



40

30

20

15

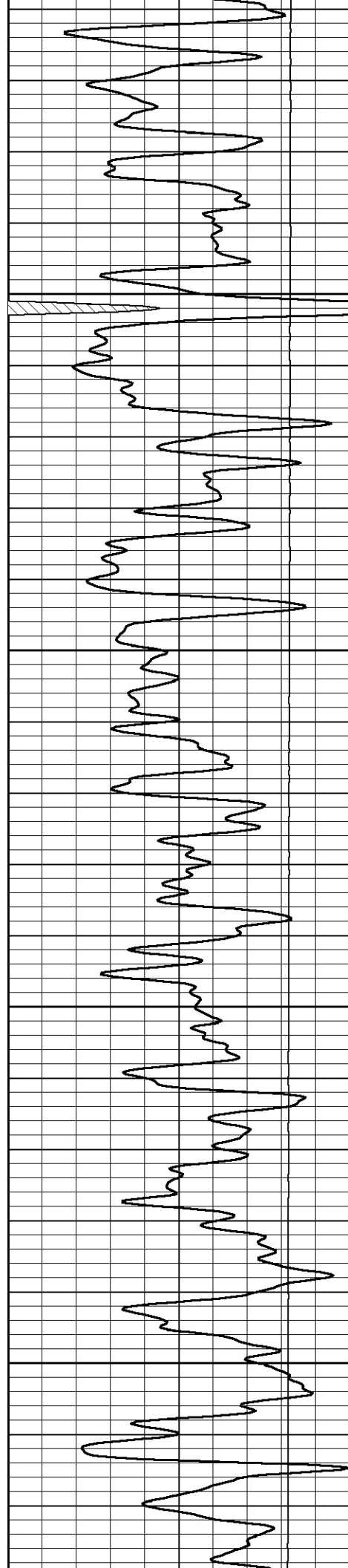
10

5

1

POROSITY LIMESTONE

(FLUID FILLED HOLE)

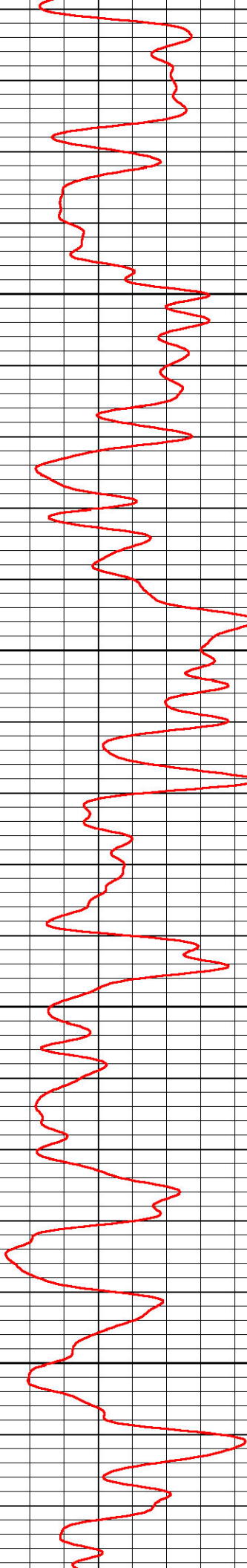


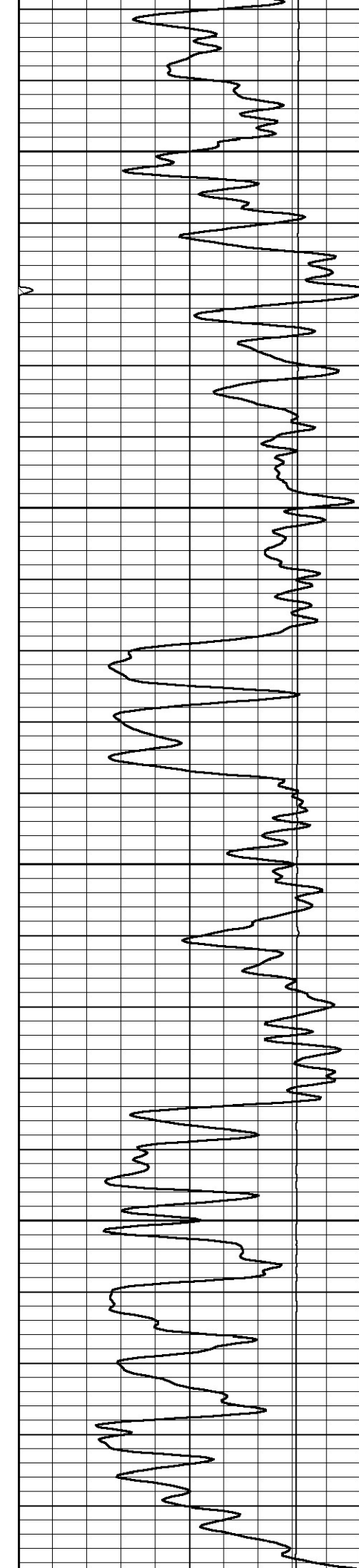
2200

2250

2300

2350



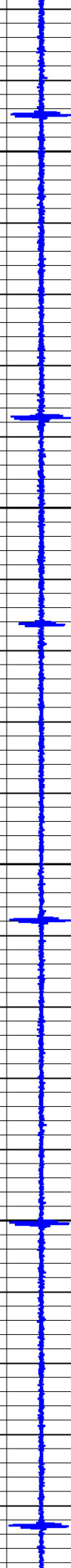
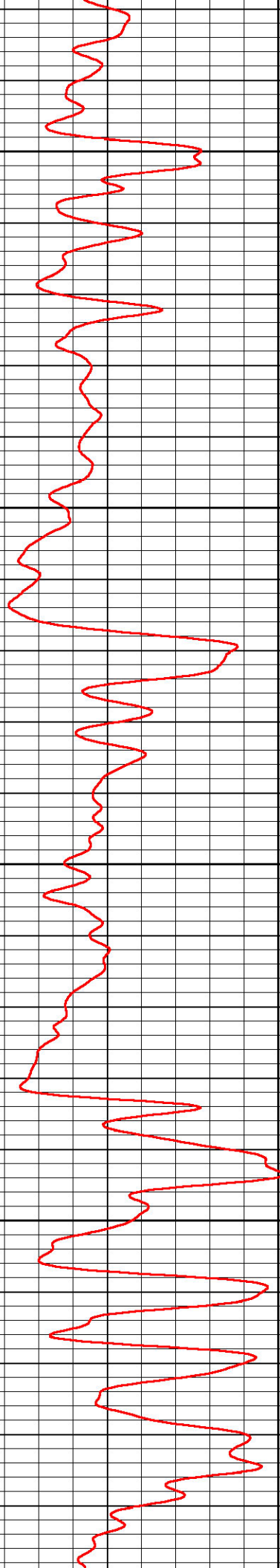


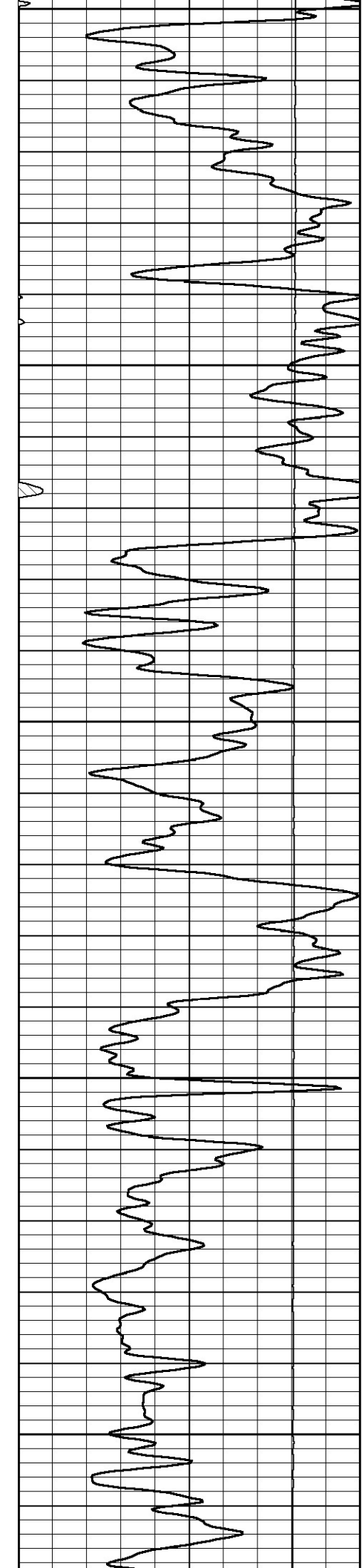
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2450

2500

2550





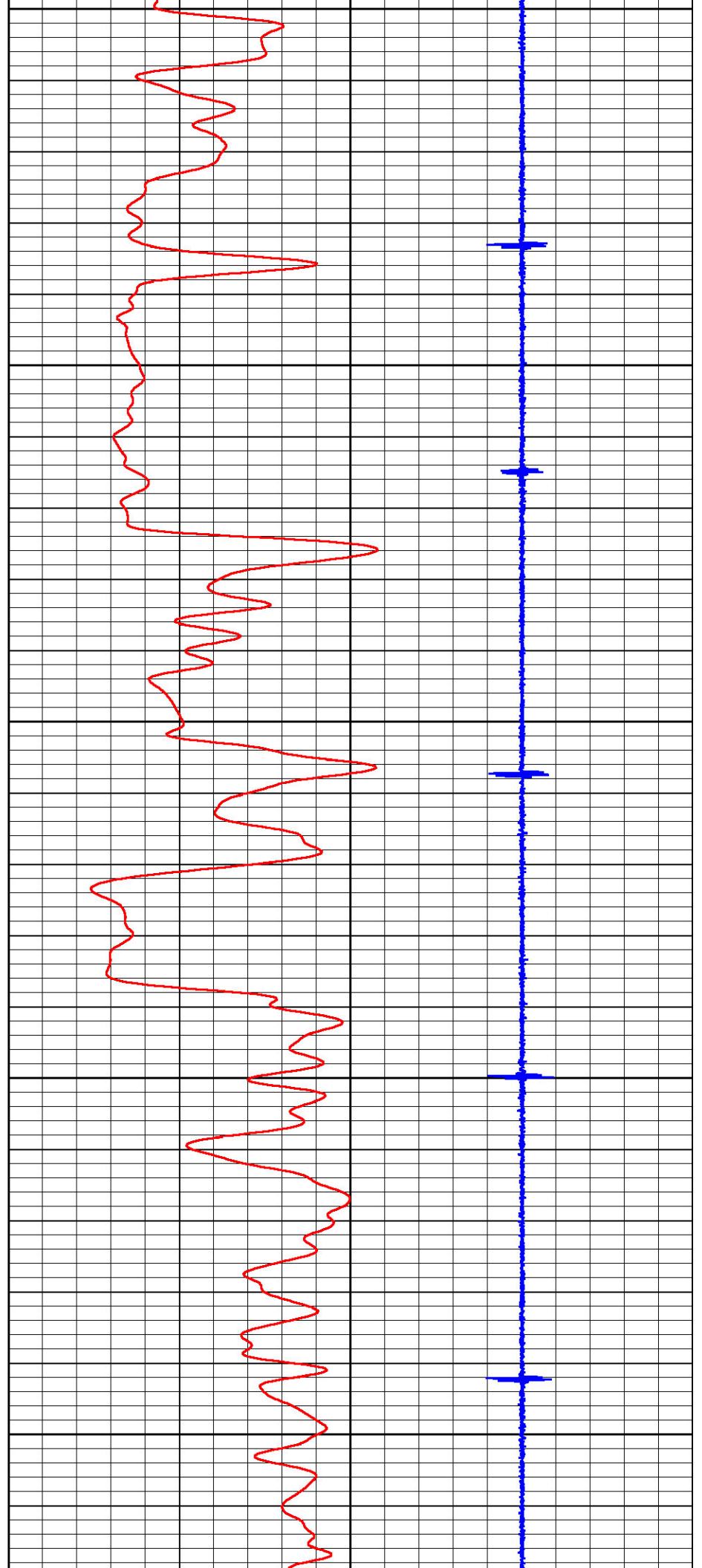
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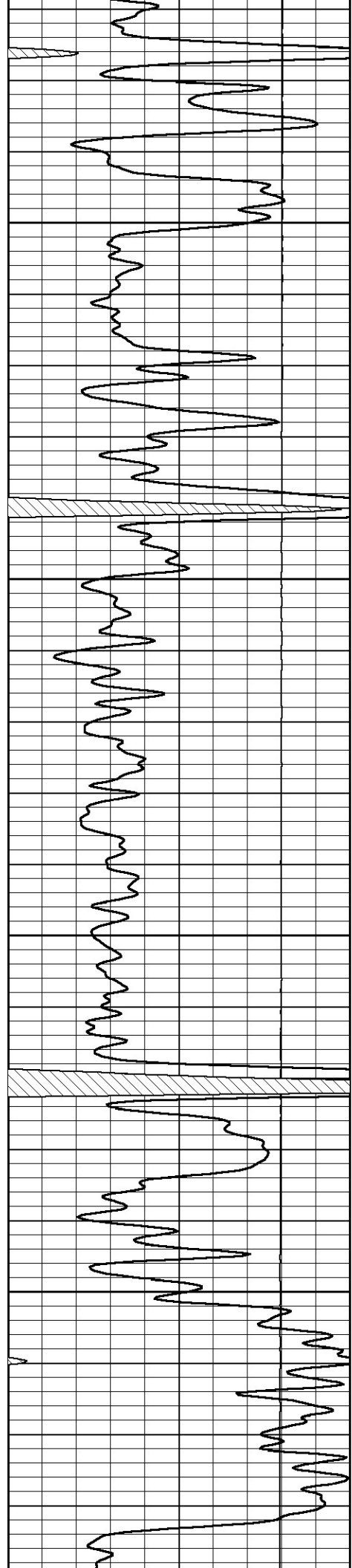
2650

2700

2750

2800



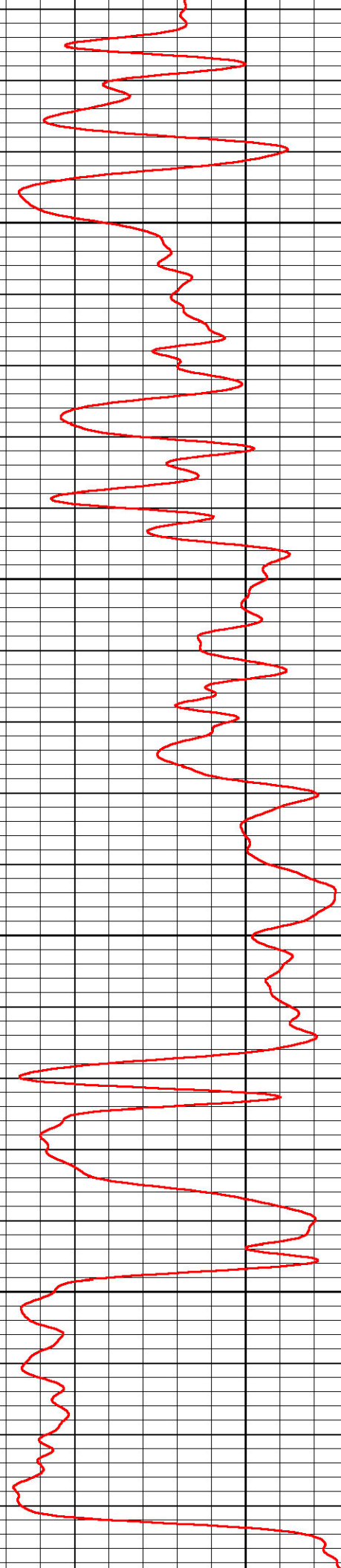


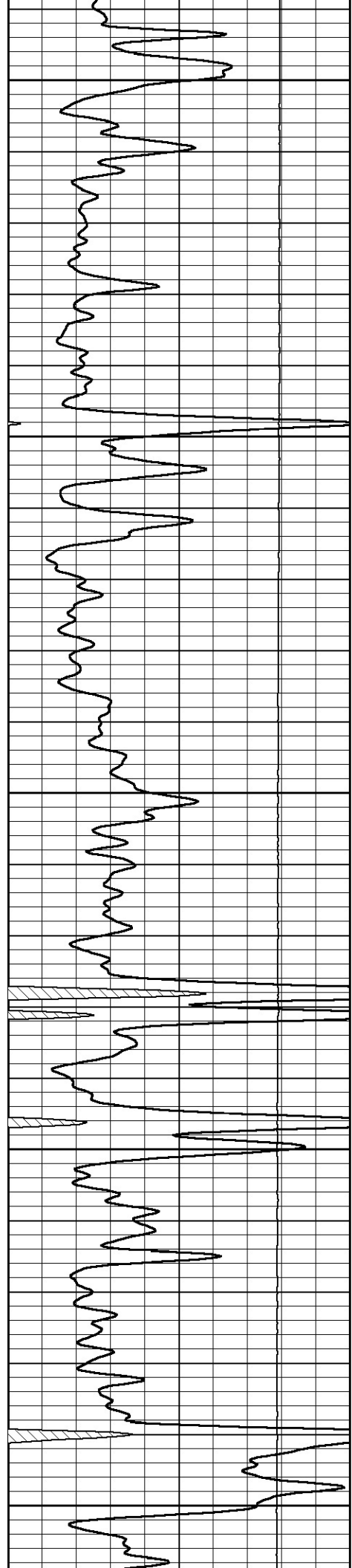
2850

2900

2950

3000





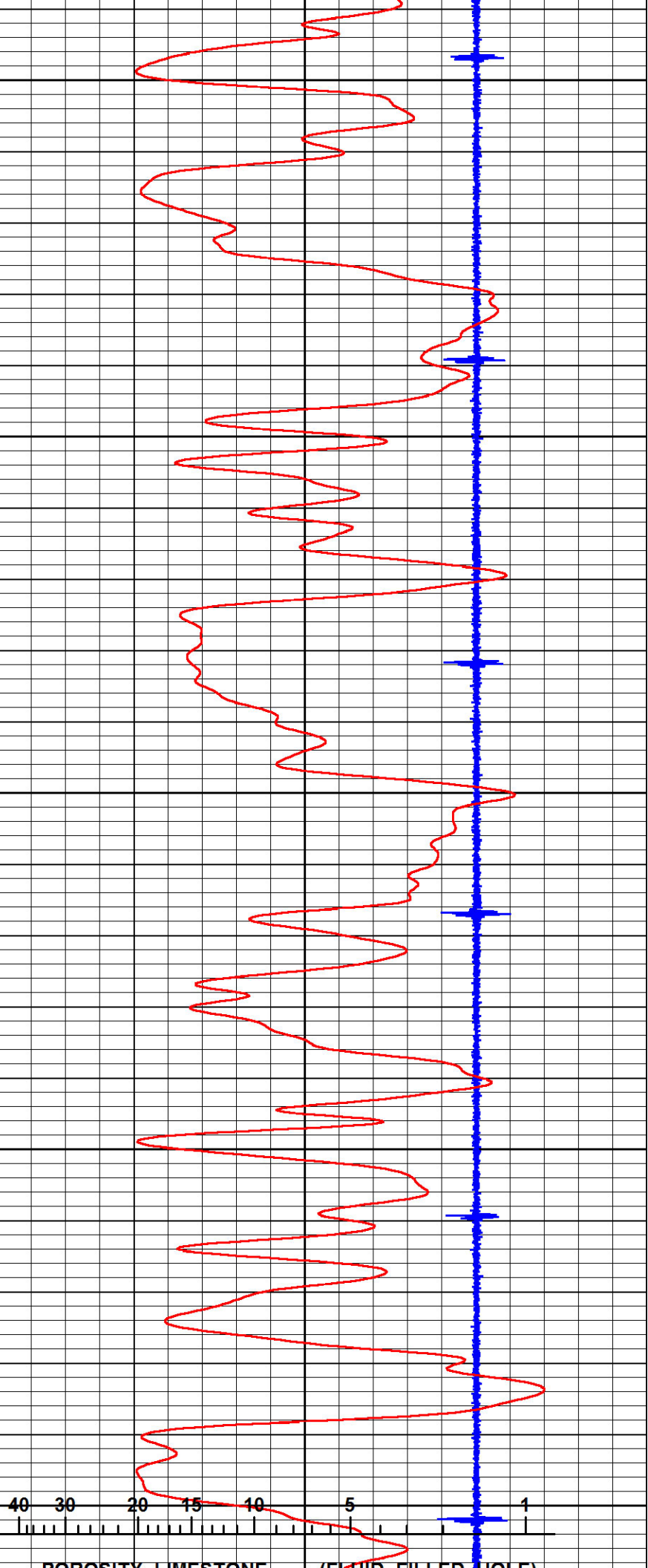
3050

3100

3150

3200

3250



40

30

20

15

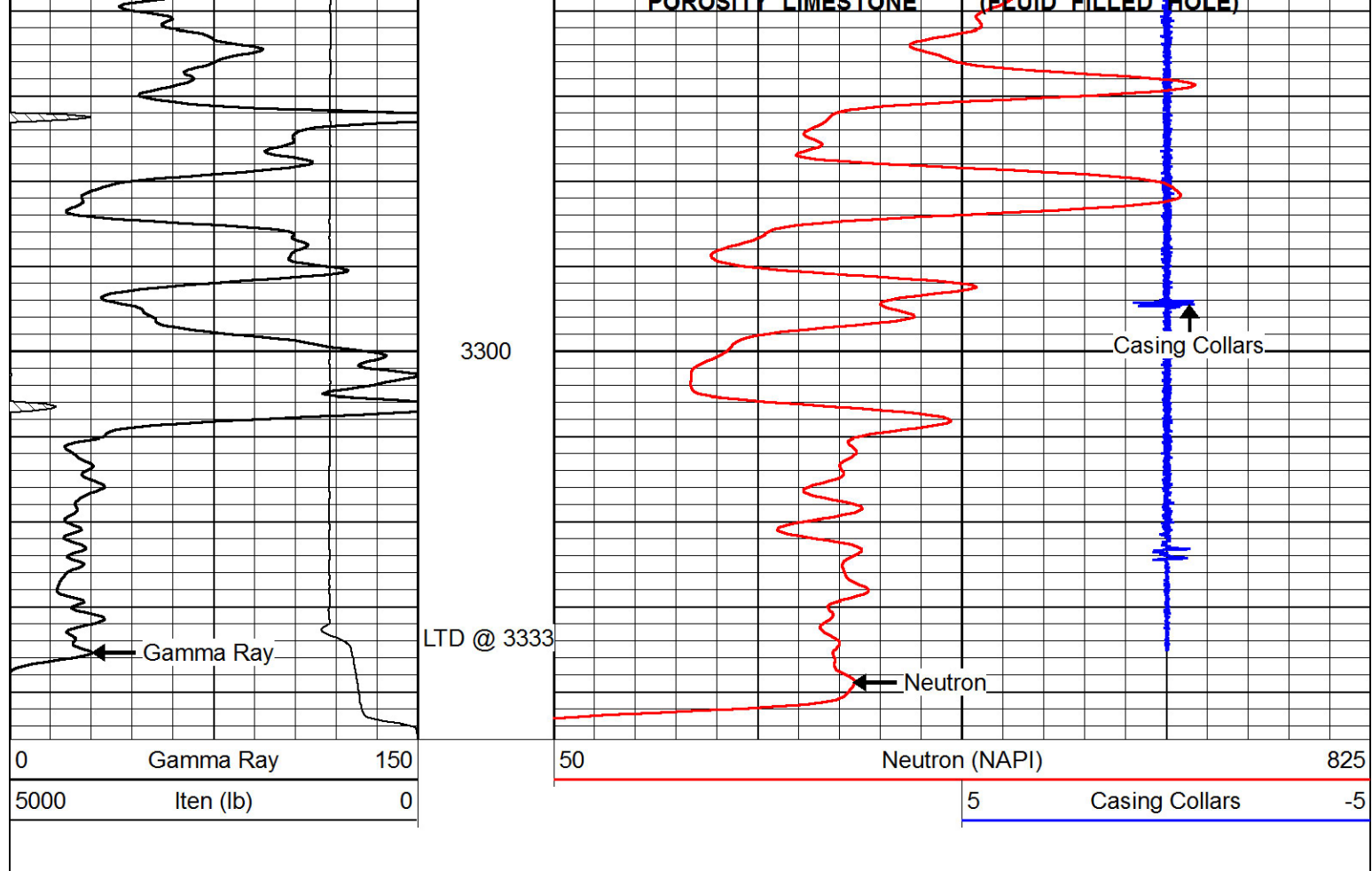
10

5

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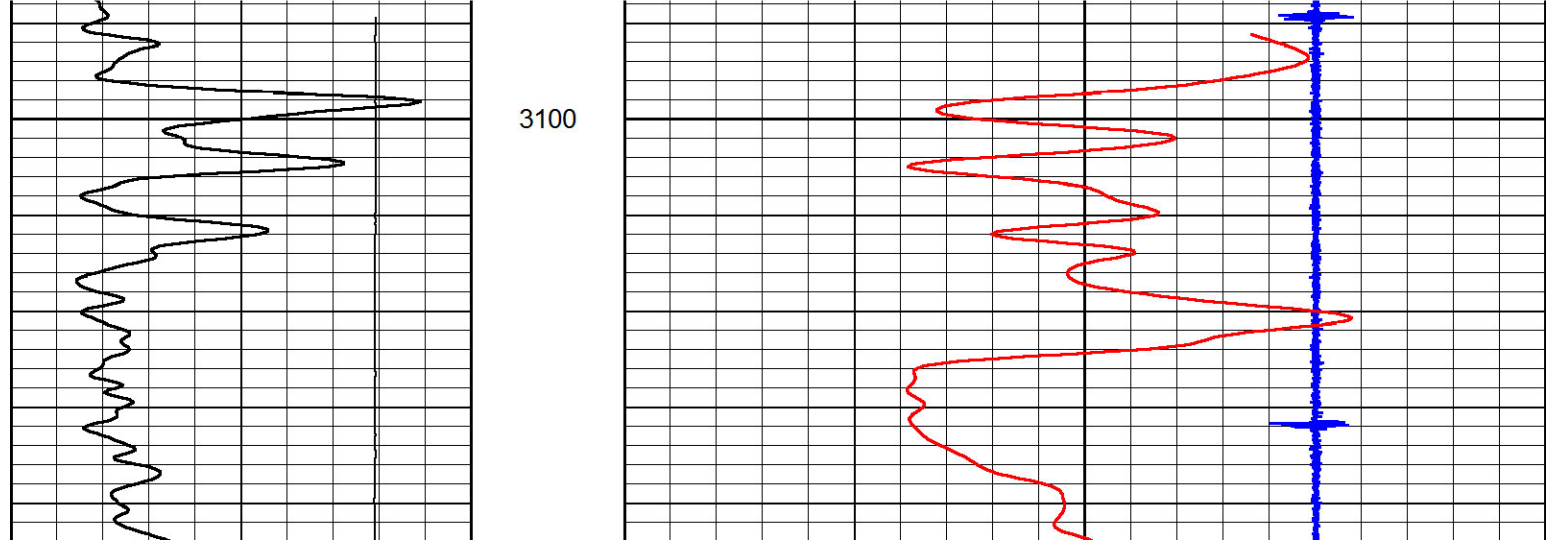
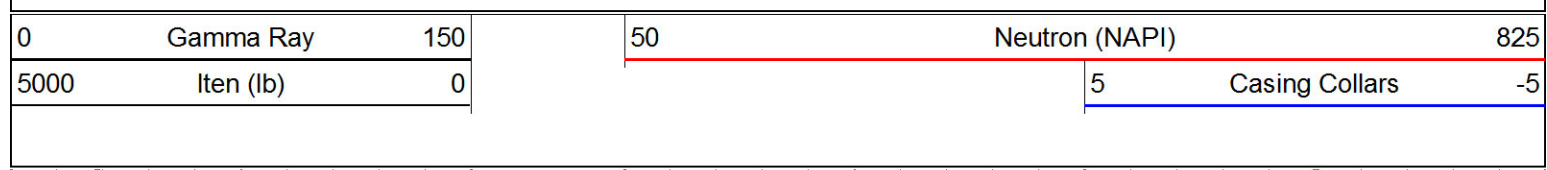
POROSITY LIMESTONE

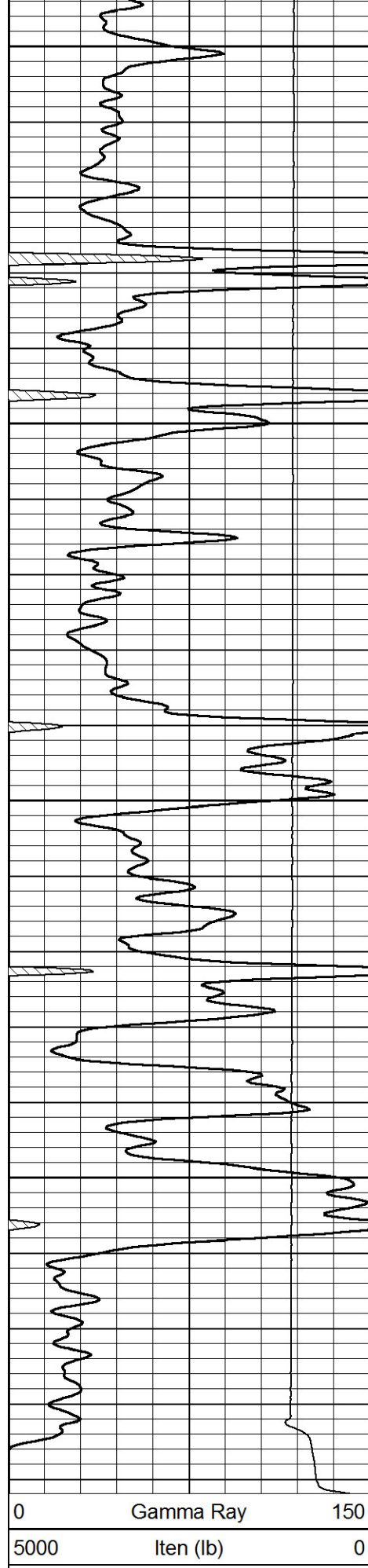
(5/16" FILLER GOLF)



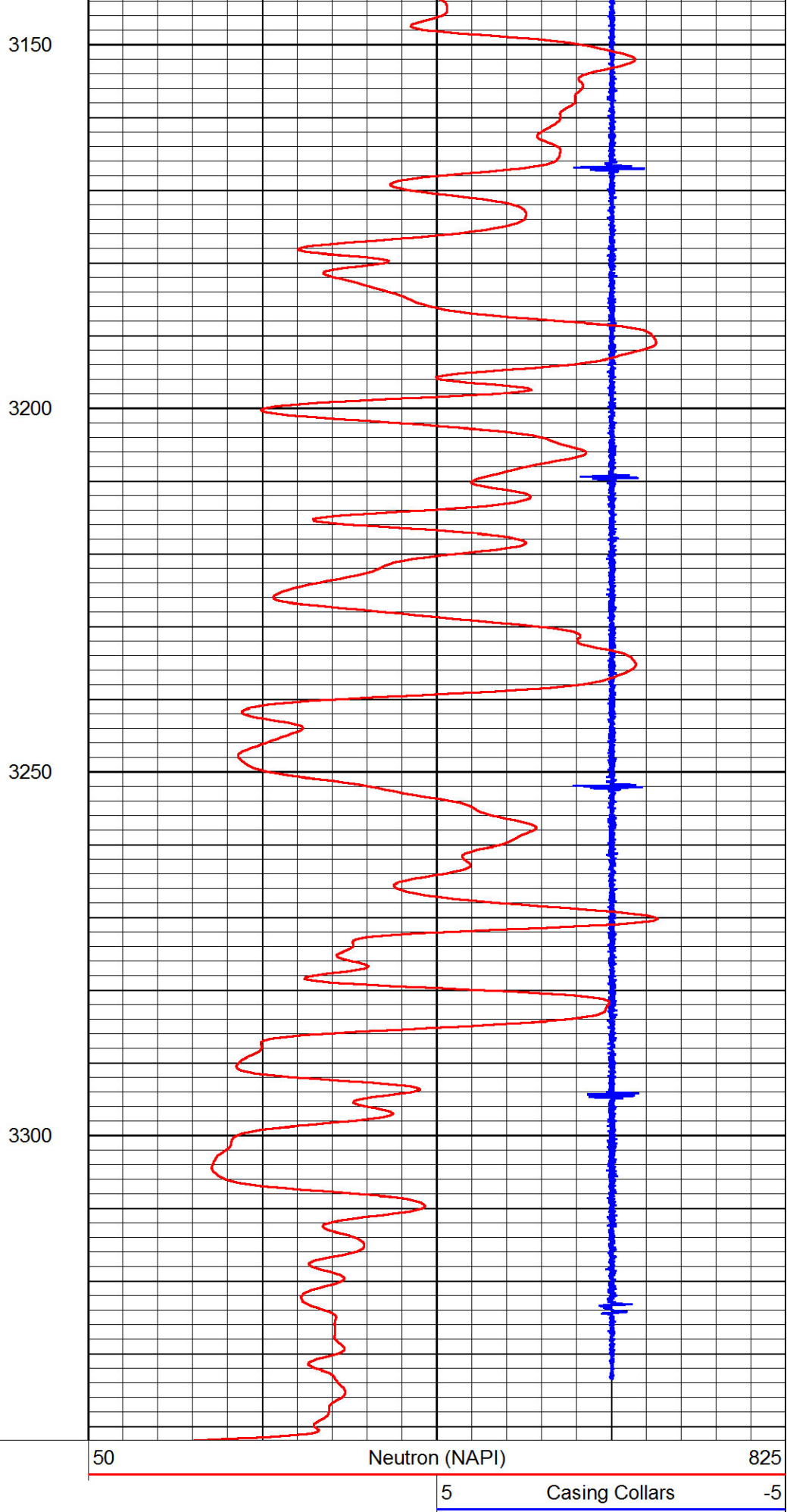
# Repeat Section

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 Dataset Creation: Thu Sep 05 11:45:24 2013 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240





0 Gamma Ray 150  
5000 Iten (lb) 0



50 Neutron (NAPI) 825  
5 Casing Collars -5