



Pioneer Energy Services

Radiation Guard Log

15-065-24002-00-00

Company **Ron's Oil Operations, Inc.**
 Well **Keith #14-2**
 Field **Railroad Southeast**
 County **Graham** State **Kansas**

Location

1553' FNL & 536' FEL

Other Services
MEL

Sec: 14 Twp: 8S Rge: 22W

Permanent Datum Ground Level Elevation 2094
 Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elevation
K.B. 2099
D.F.
G.L. 2094

Date	1/30/2014		
Run Number	One		
Depth Driller	3671		
Depth Logger	3671		
Bottom Logged Interval	3670		
Top Log Interval	200		
Casing Driller	8.625 @ 210		
Casing Logger	216		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2000		
Density / Viscosity	9.3 55		
pH / Fluid Loss	9.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.60 @ 48		
Rmf @ Meas. Temp	1.20 @ 48		
Rmc @ Meas. Temp	2.16 @ 48		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.68 @ 113		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	113		
Equipment Number	10		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Chris Bean		

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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 Log-Tech, Inc.
(785) 625-3858

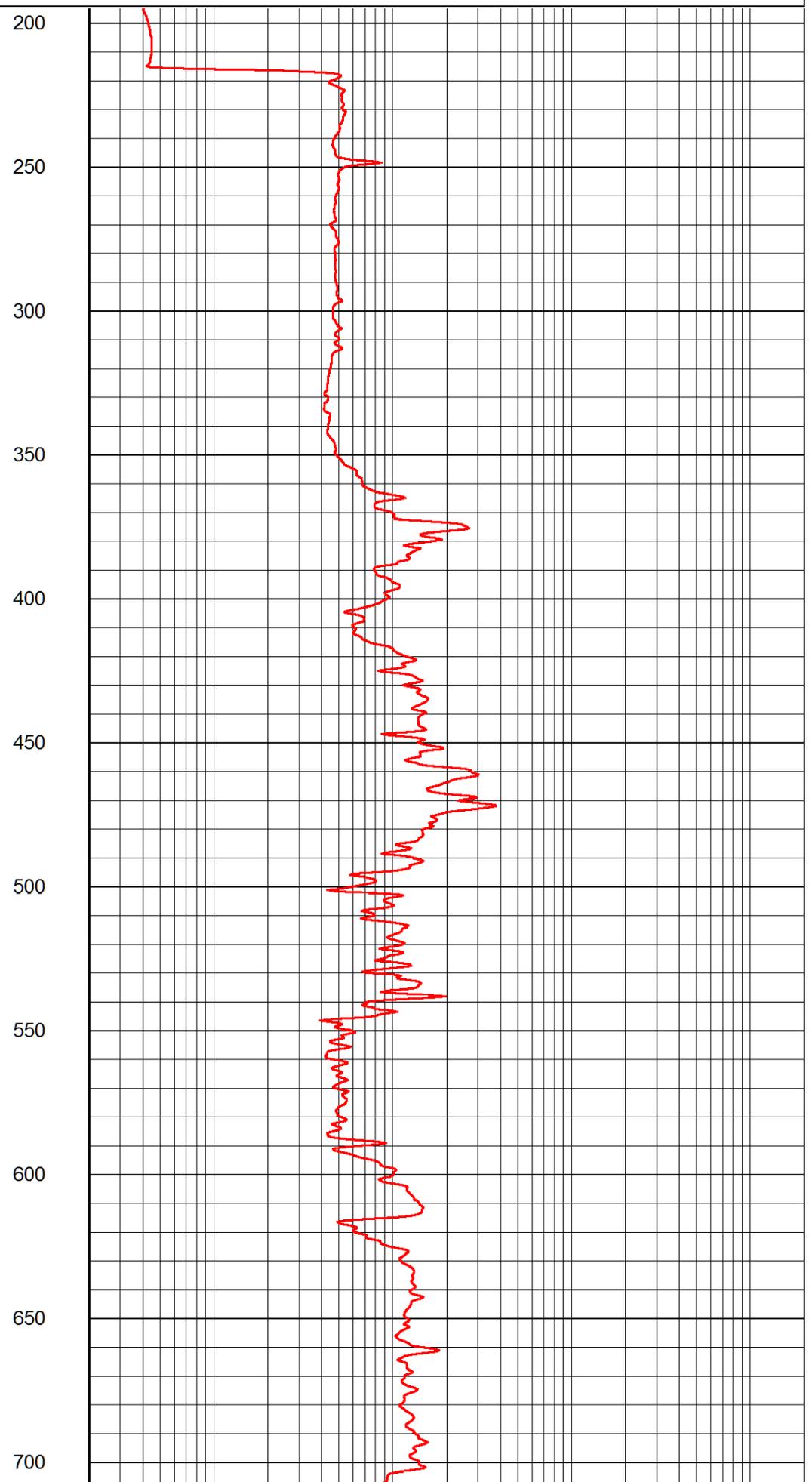
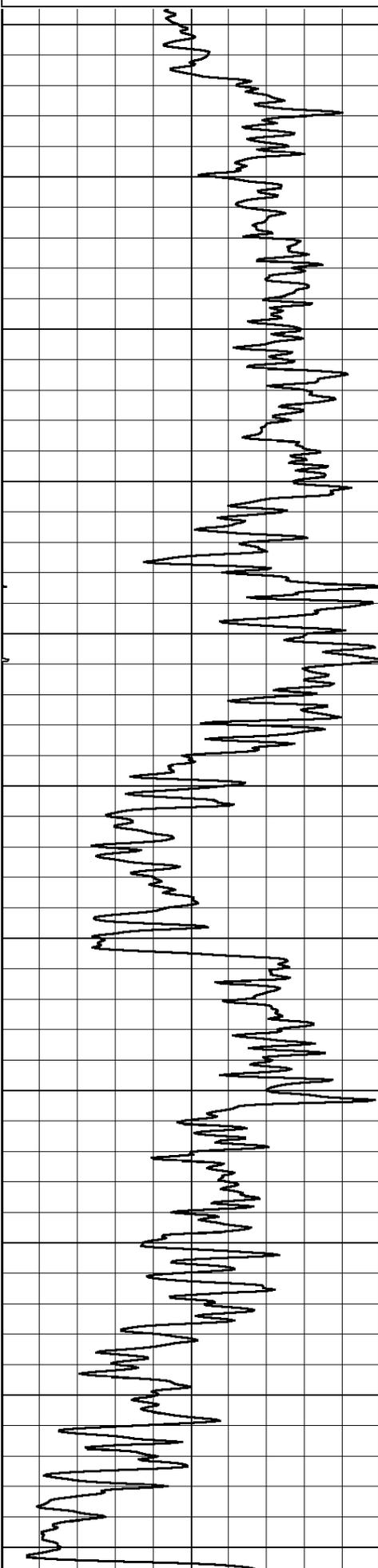
Bogue (South Edge),
2 1/2 West, North and West into

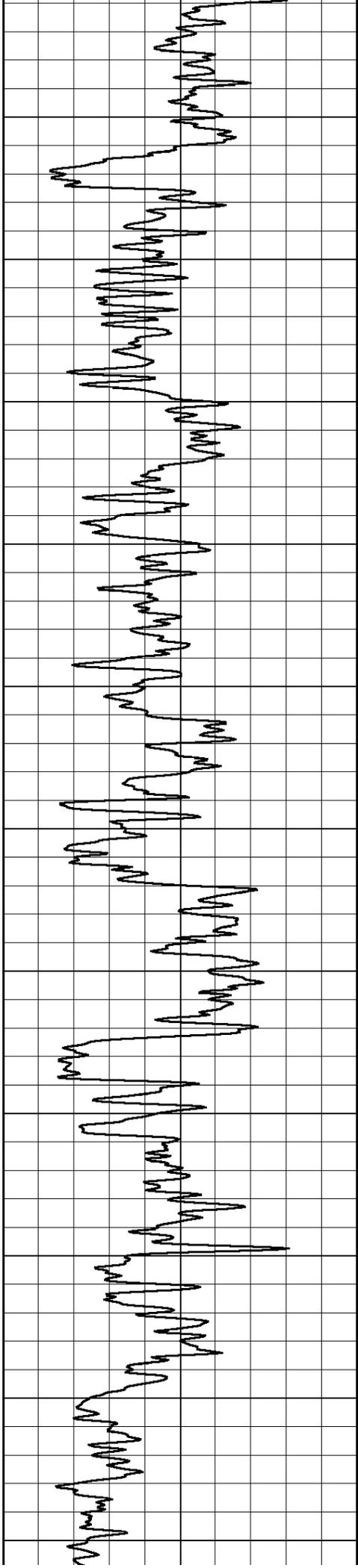
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 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

0.2 Igrd (Ohm-m)

2000





750

800

850

900

950

1000

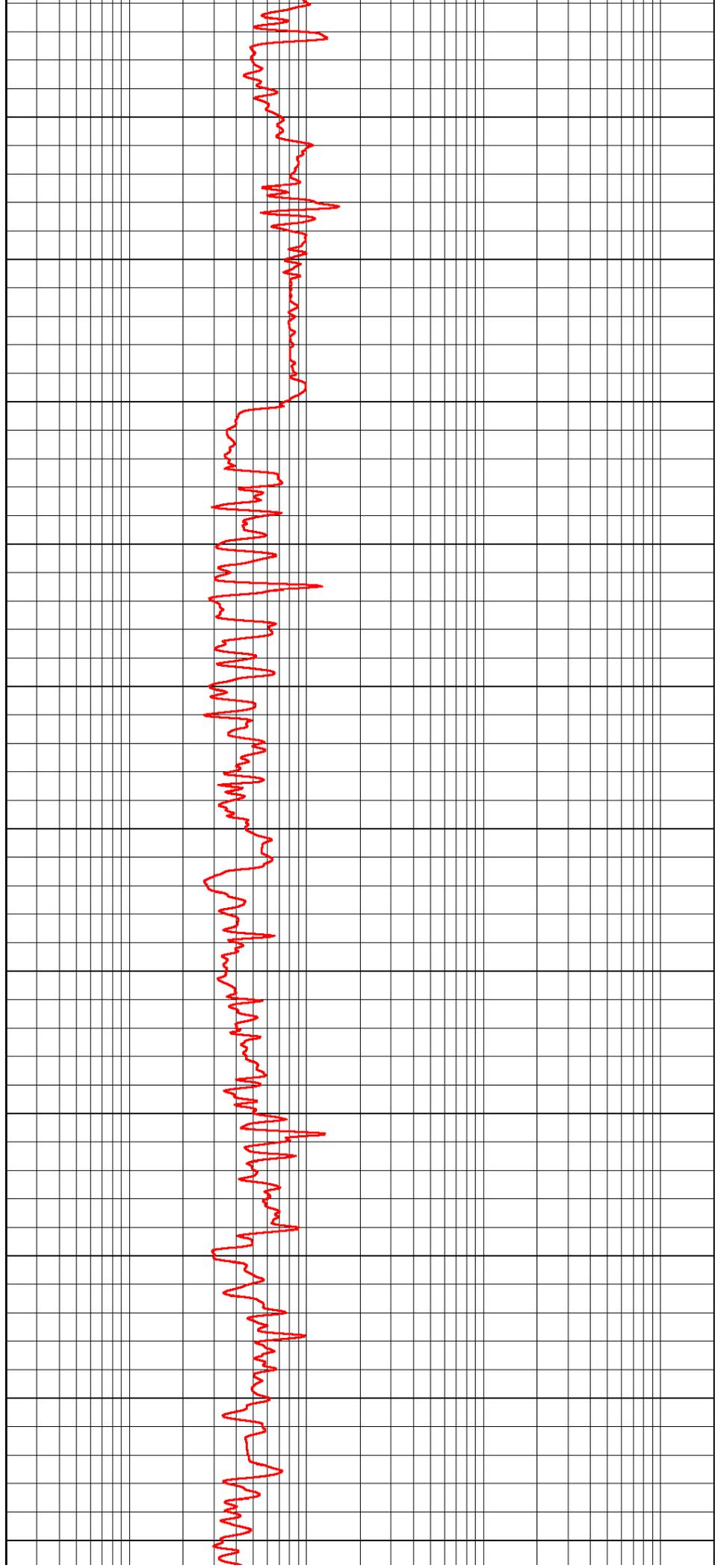
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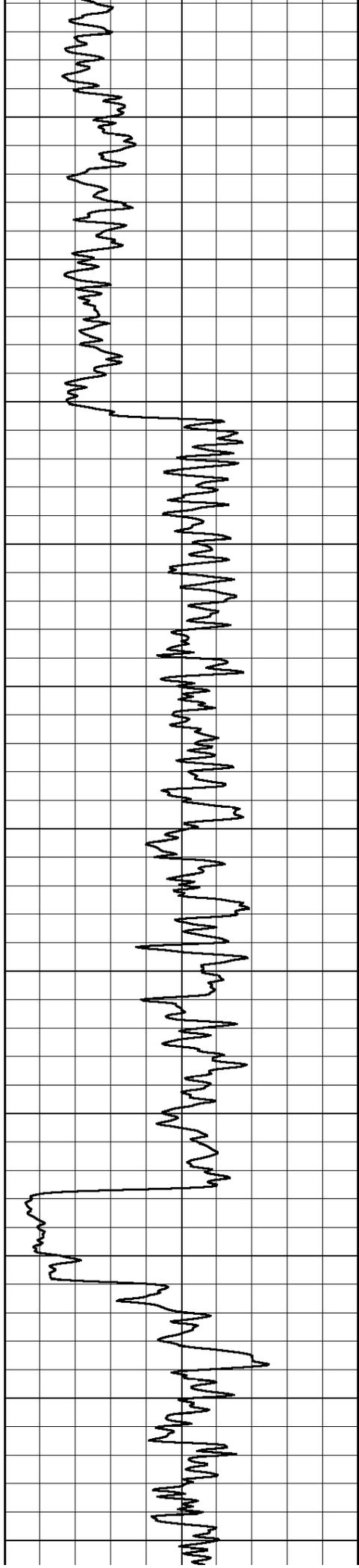
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1150

1200

1250





1300

1350

1400

1450

1500

1550

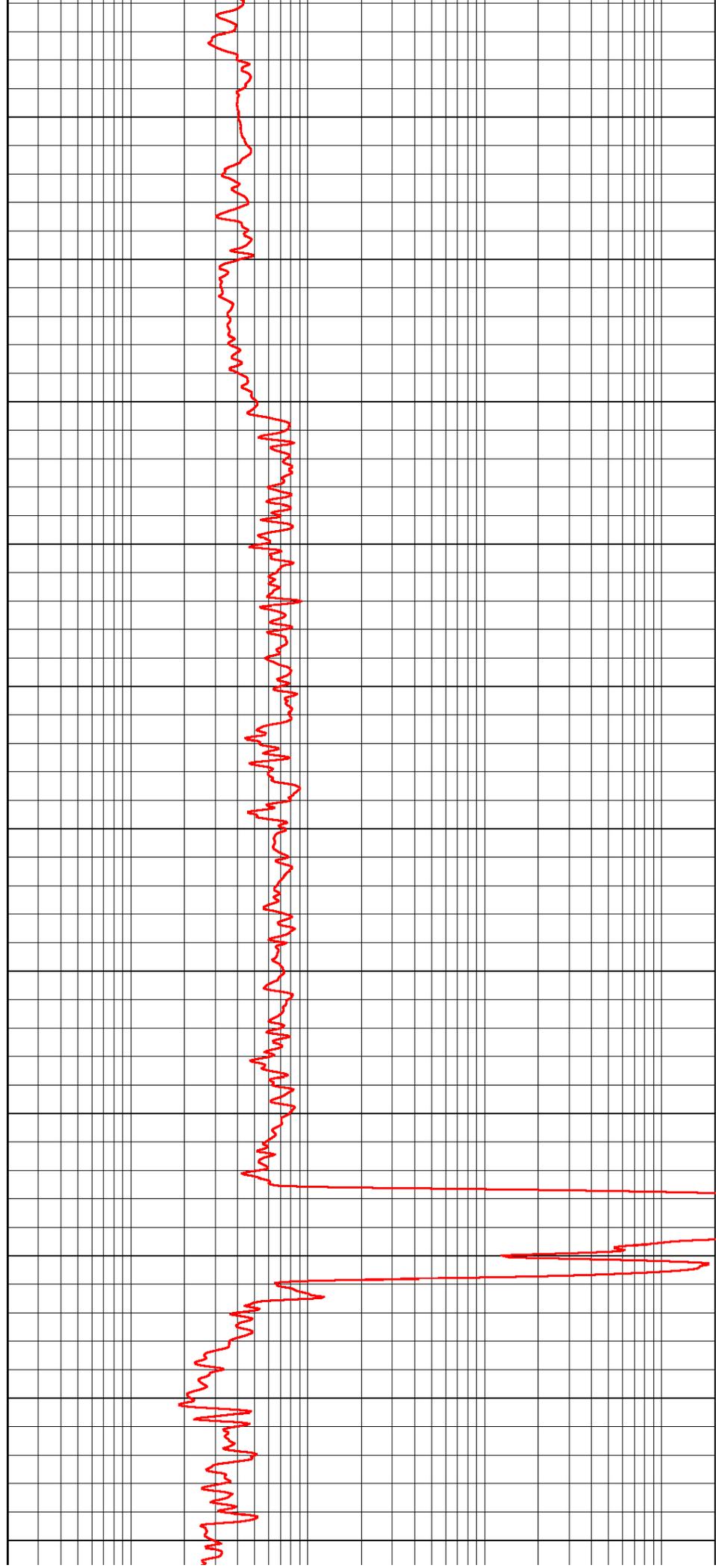
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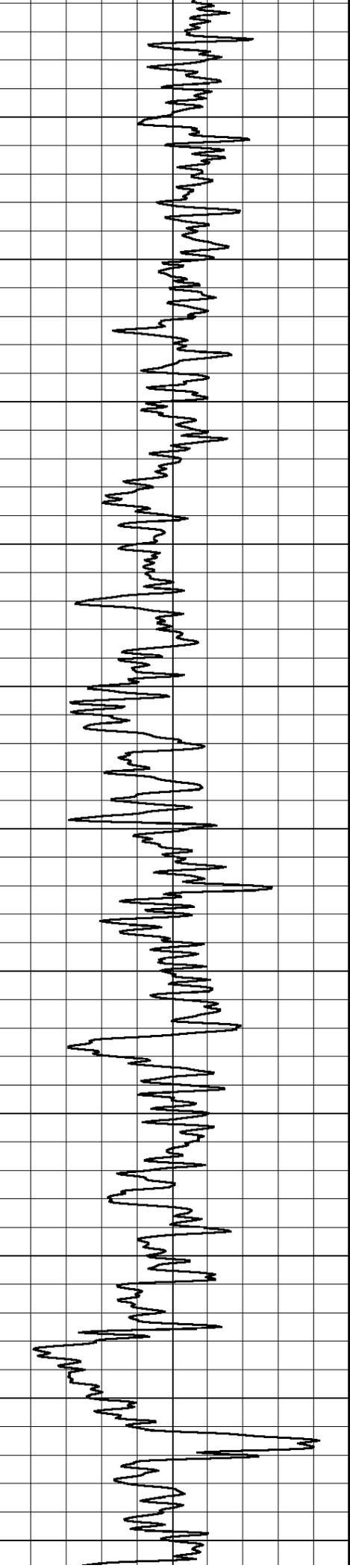
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1700

1750

1800





1850

1900

1950

2000

2050

2100

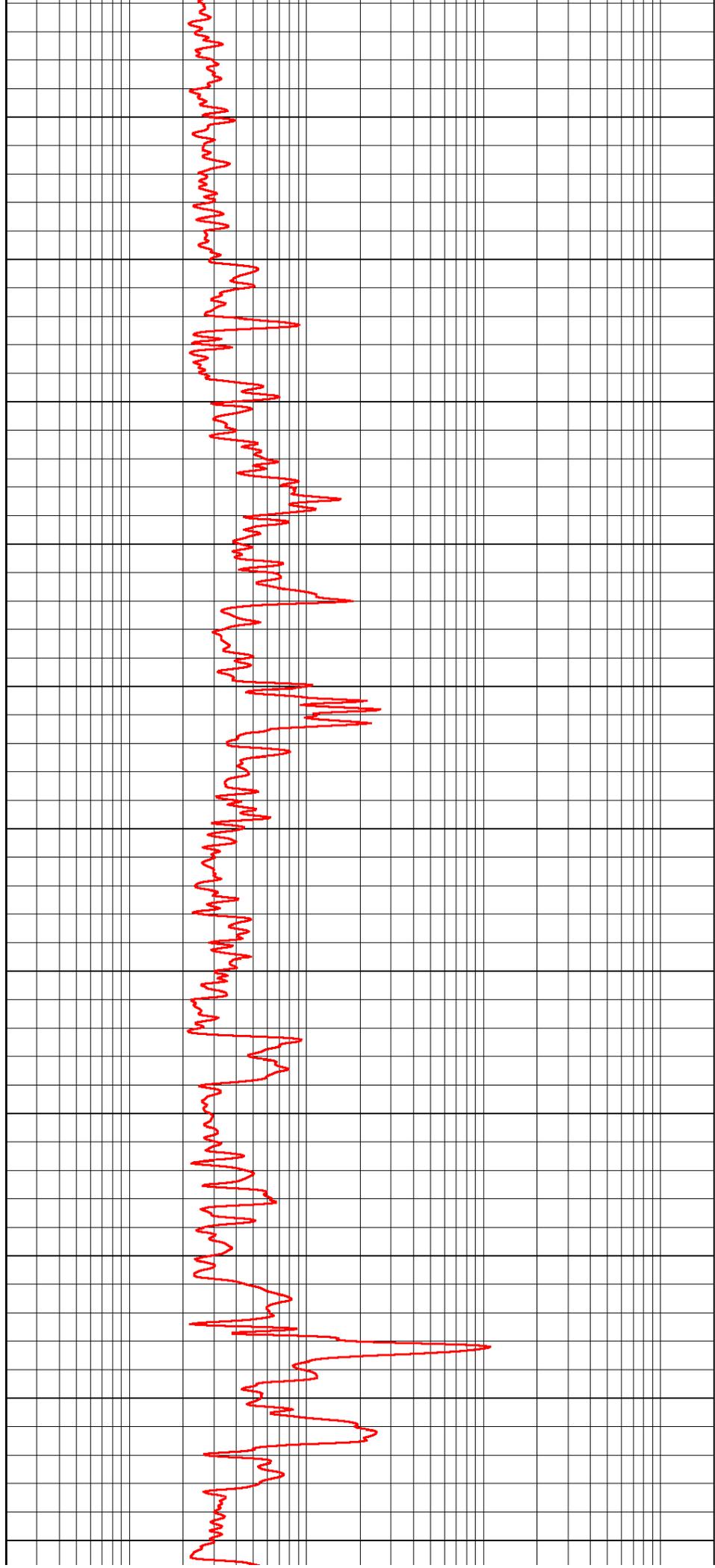
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2200

2250

2300

2350



1850

1900

1950

2000

2050

2100

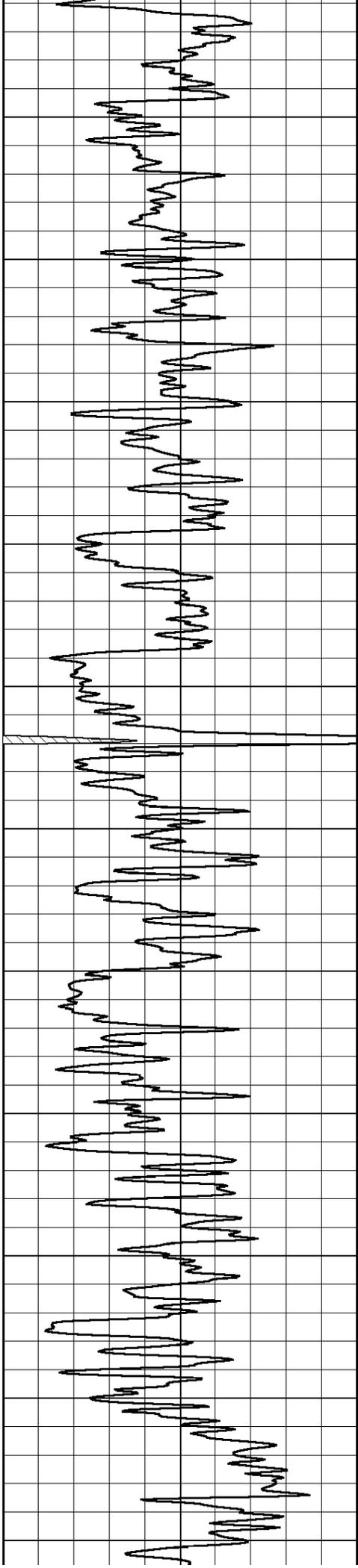
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2200

2250

2300

2350



2400

2450

2500

2550

2600

2650

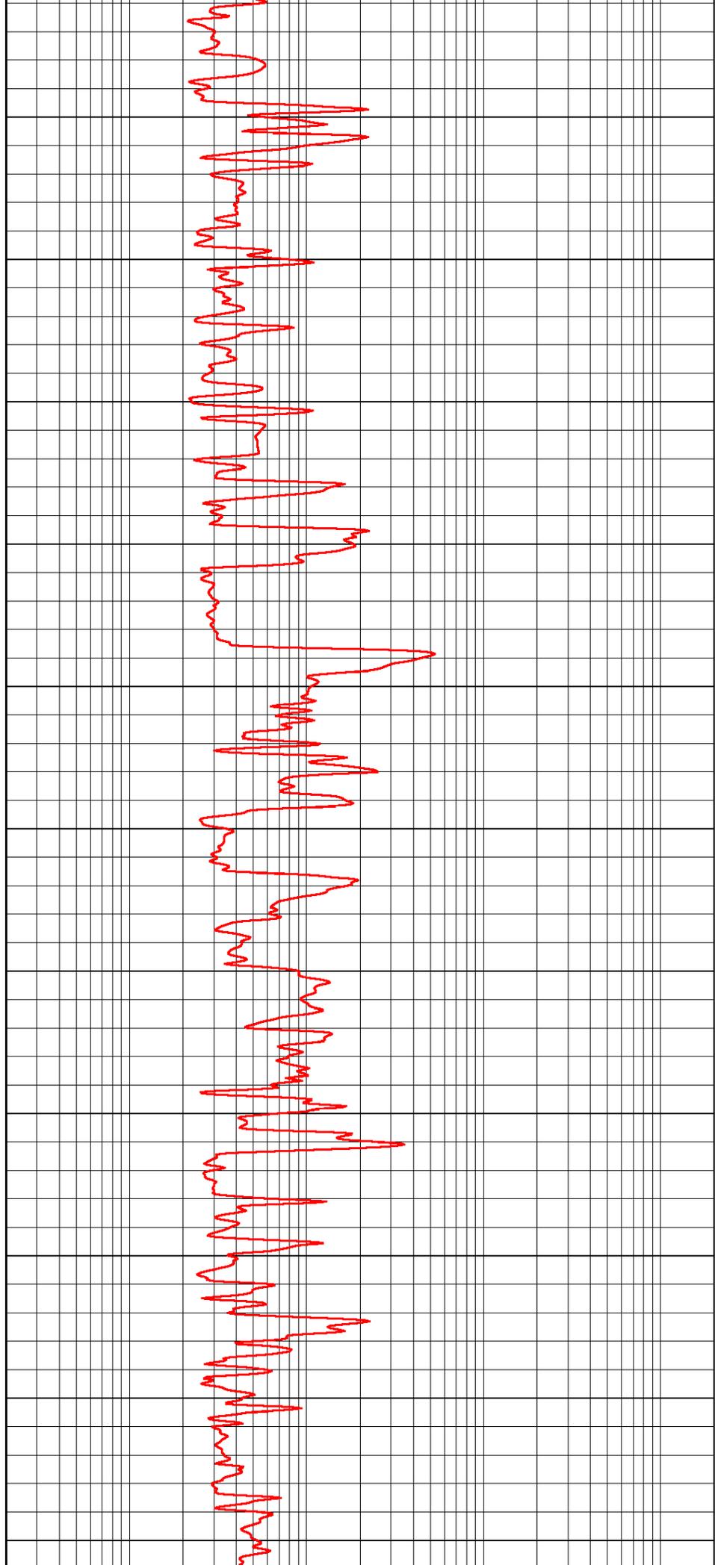
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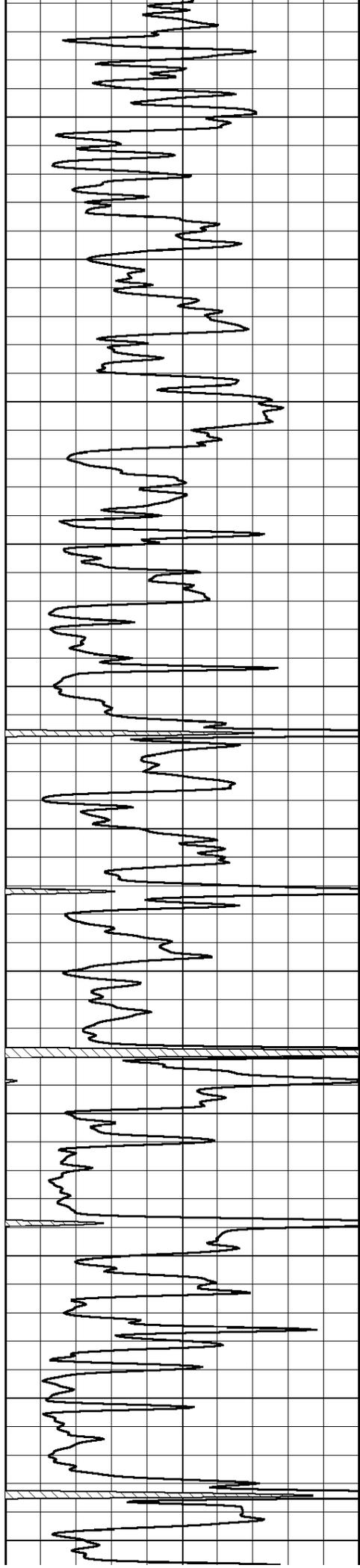
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2800

2850

2900





2950

3000

3050

3100

3150

3200

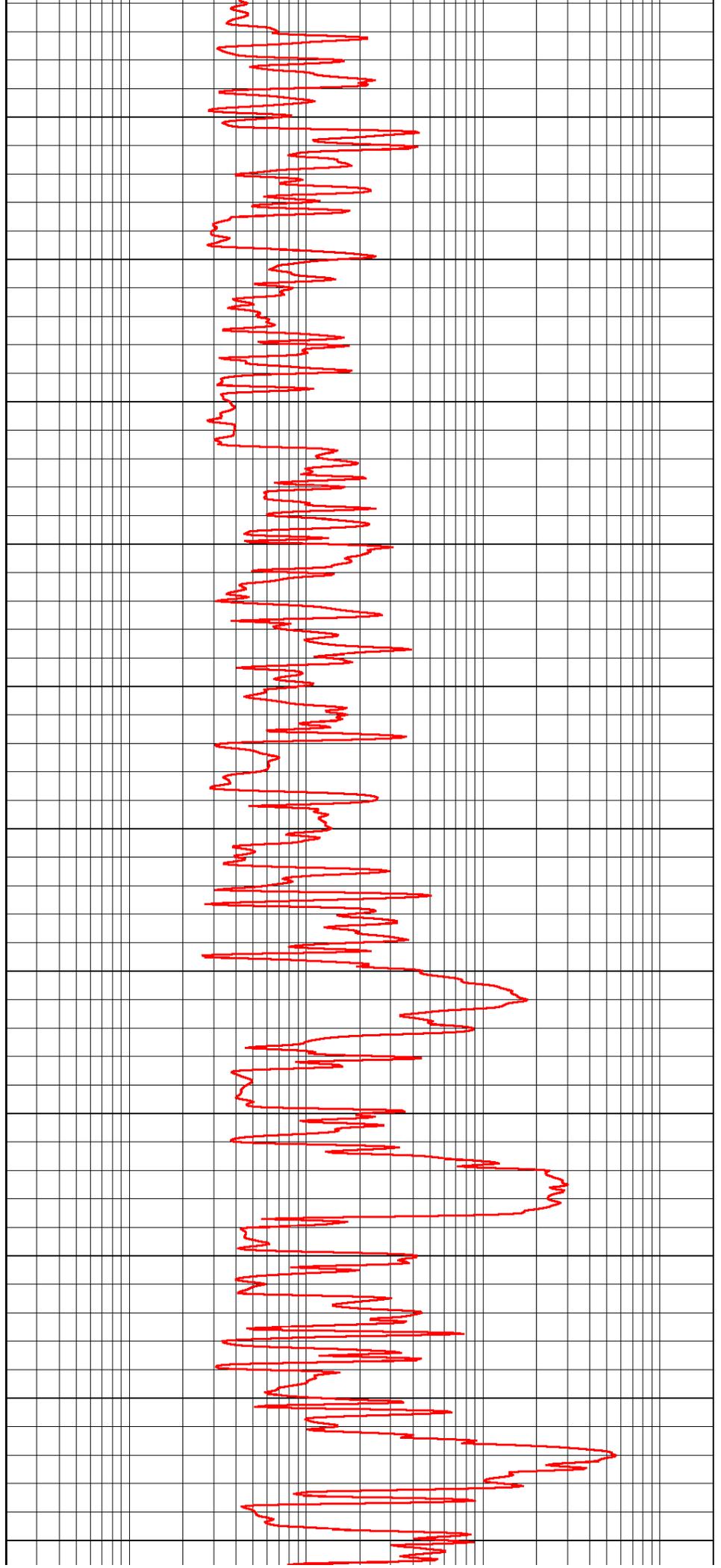
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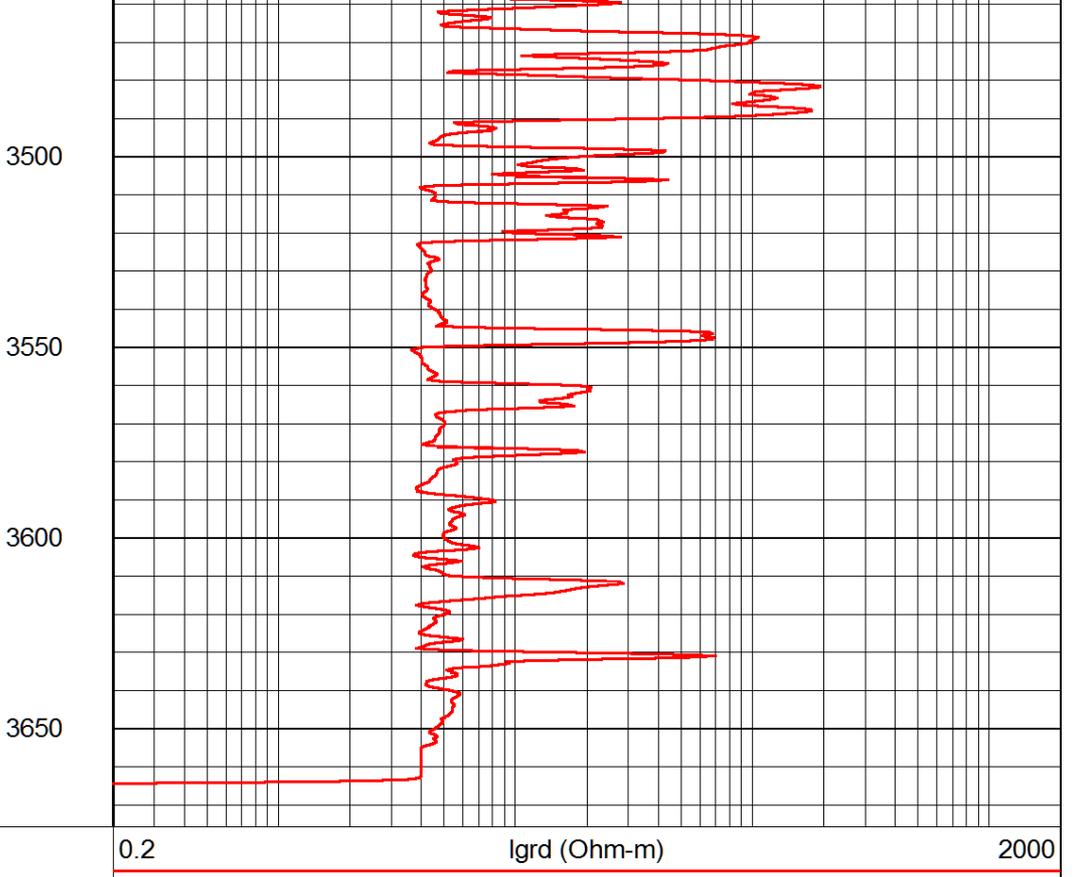
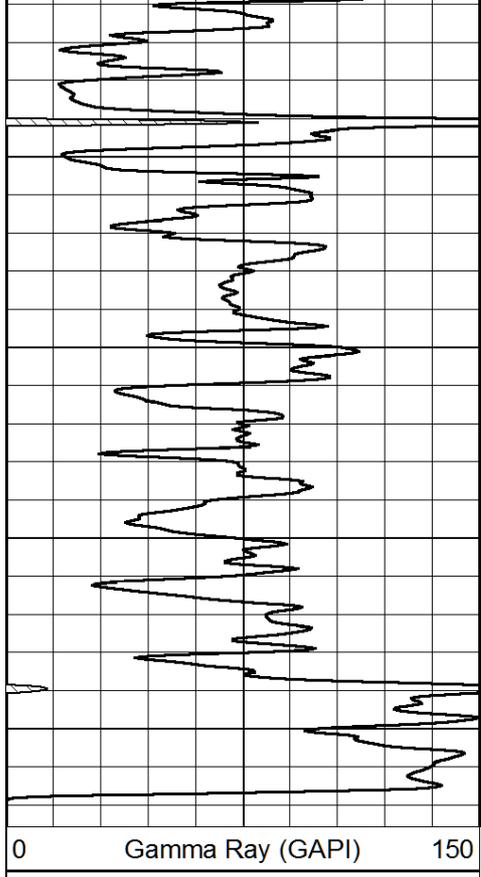
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3400

3450



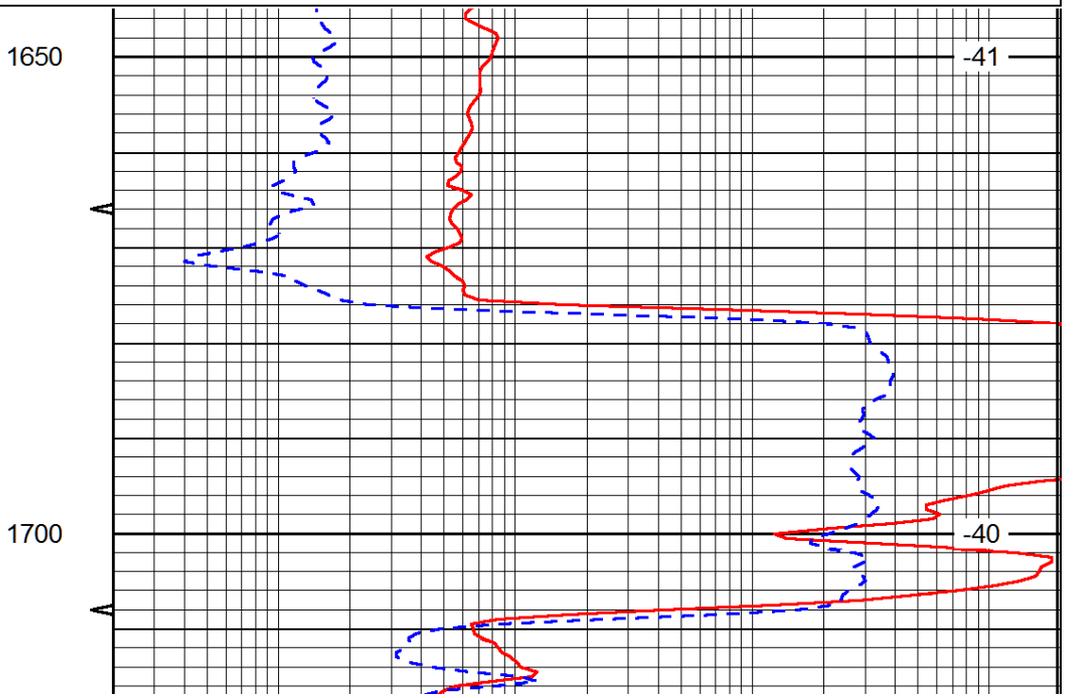
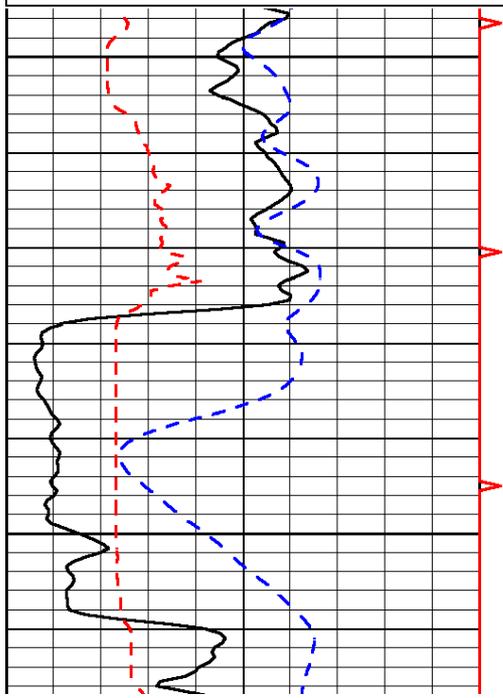


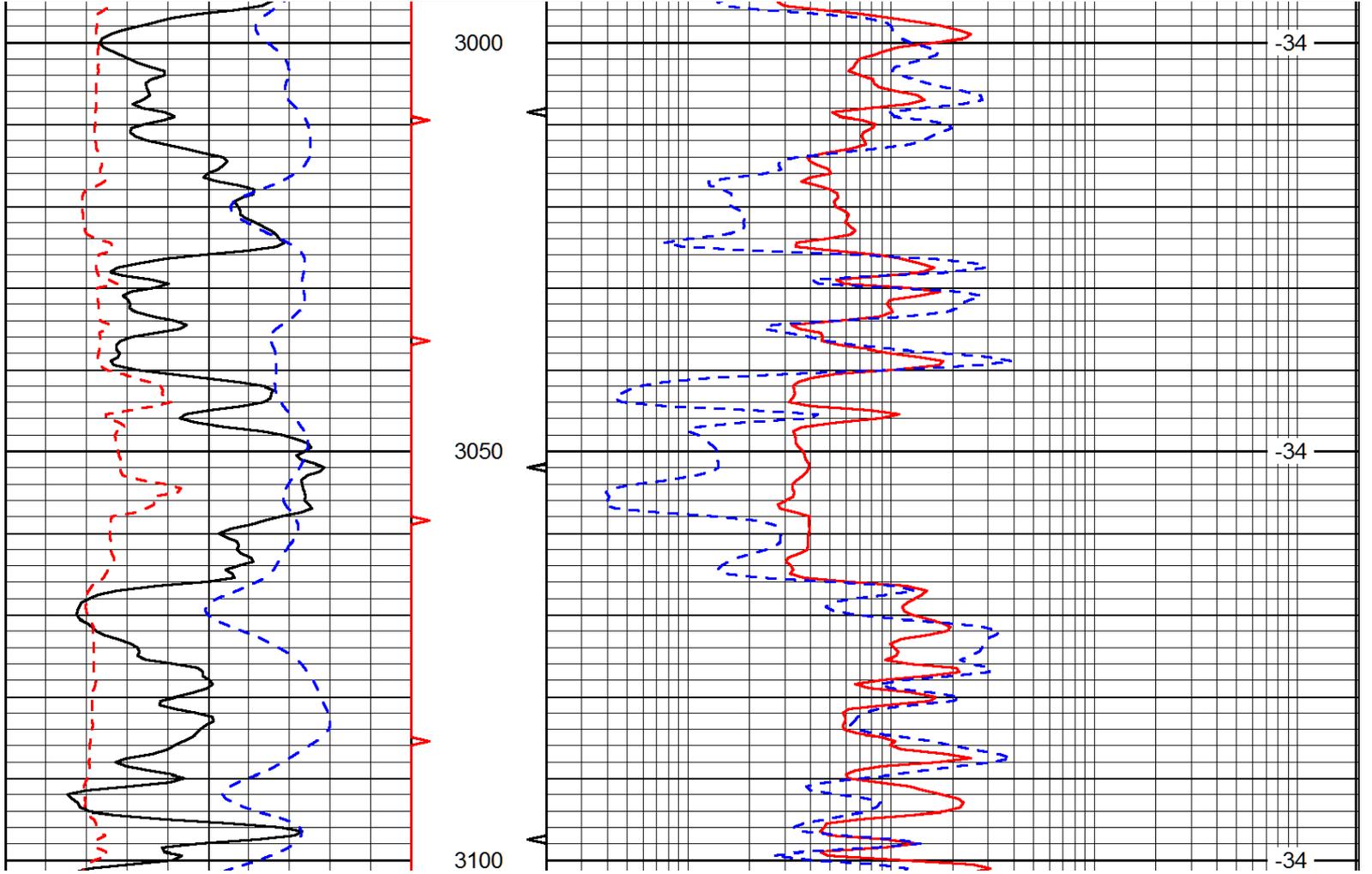
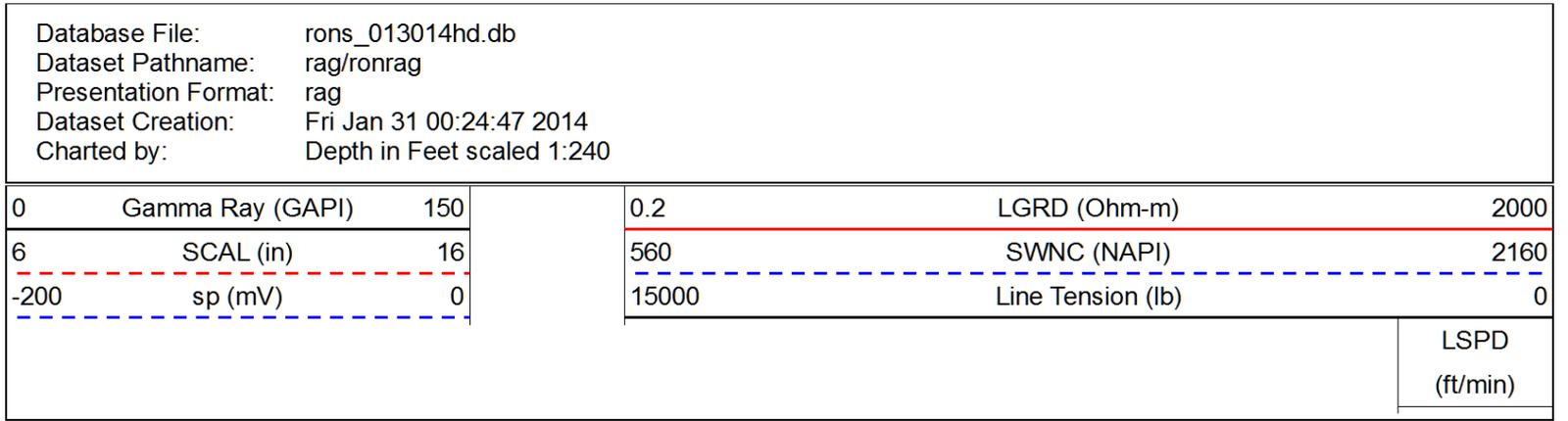
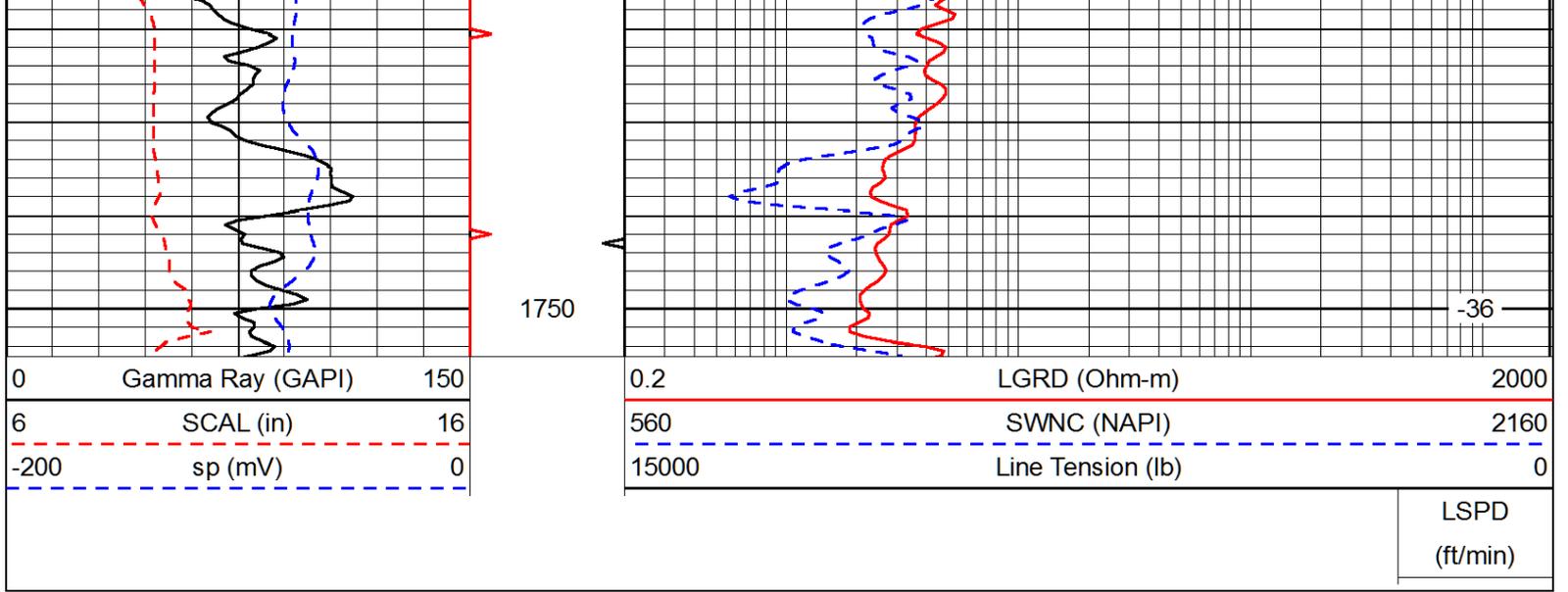
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0	Gamma Ray (GAPI)	150
6	SCAL (in)	16
-200	sp (mV)	0

0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

LSPD
(ft/min)





40 30 20 15 10 5 1

POROSITY LIMESTONE (FLUID FILLED HOLE)

3150

-34

3200

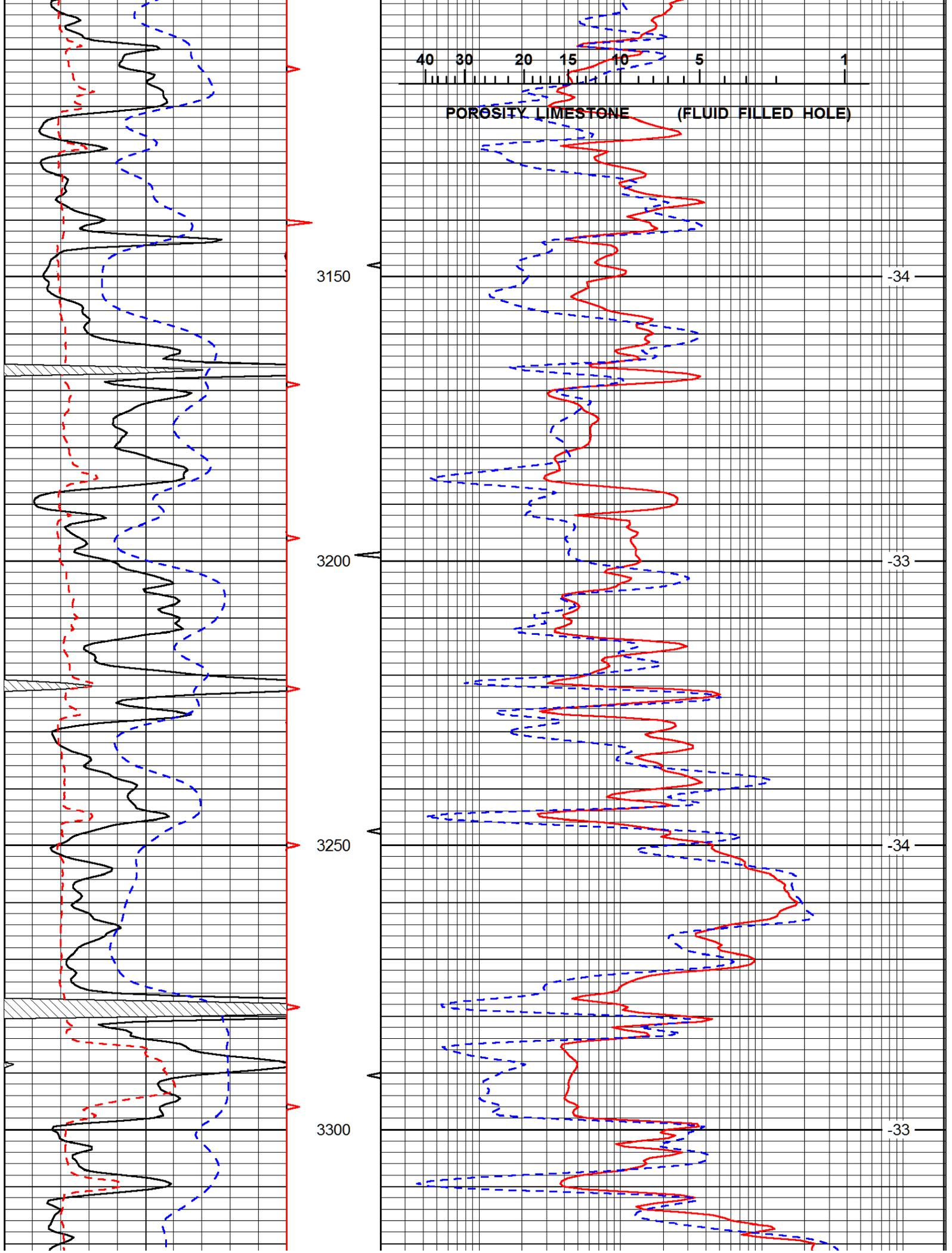
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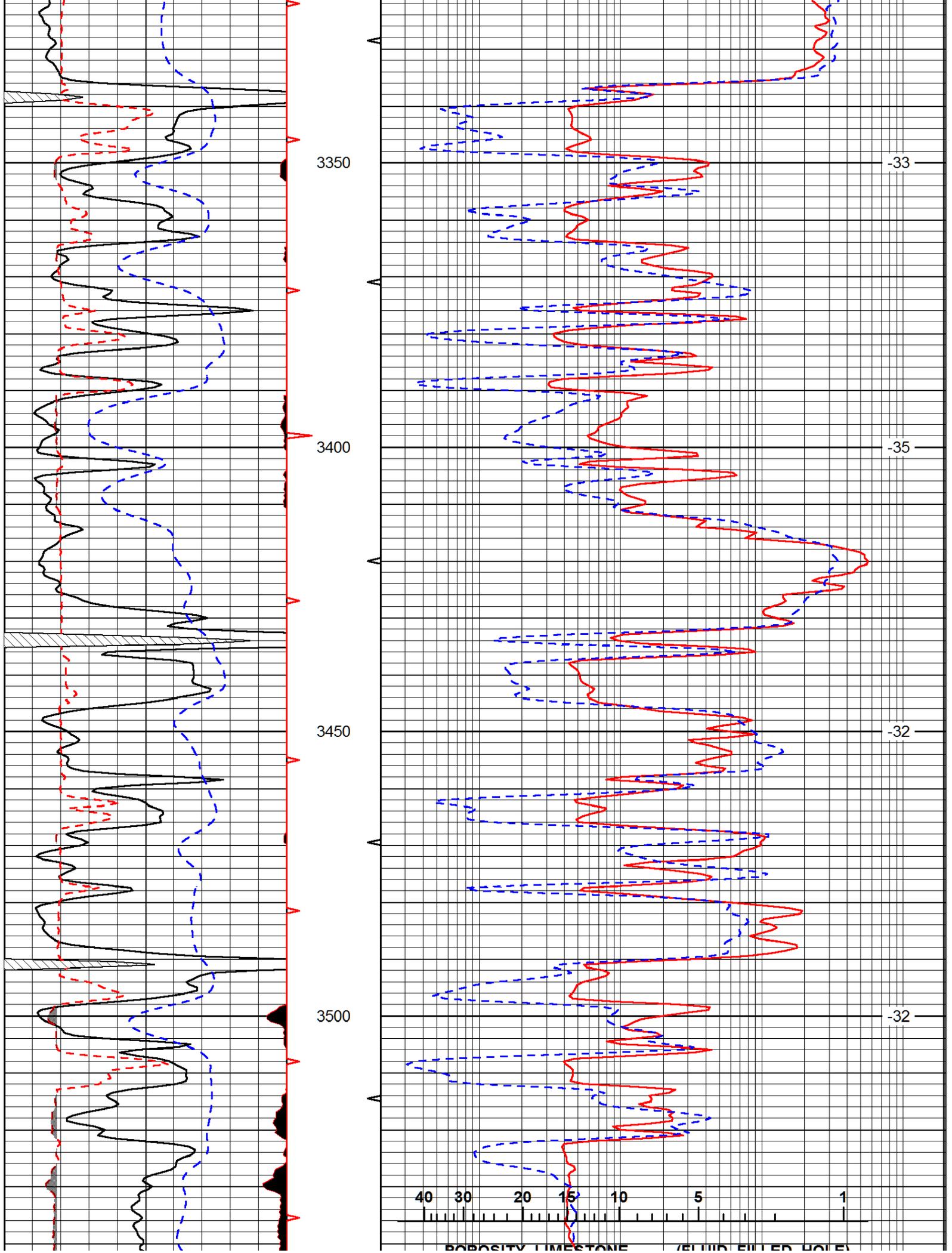
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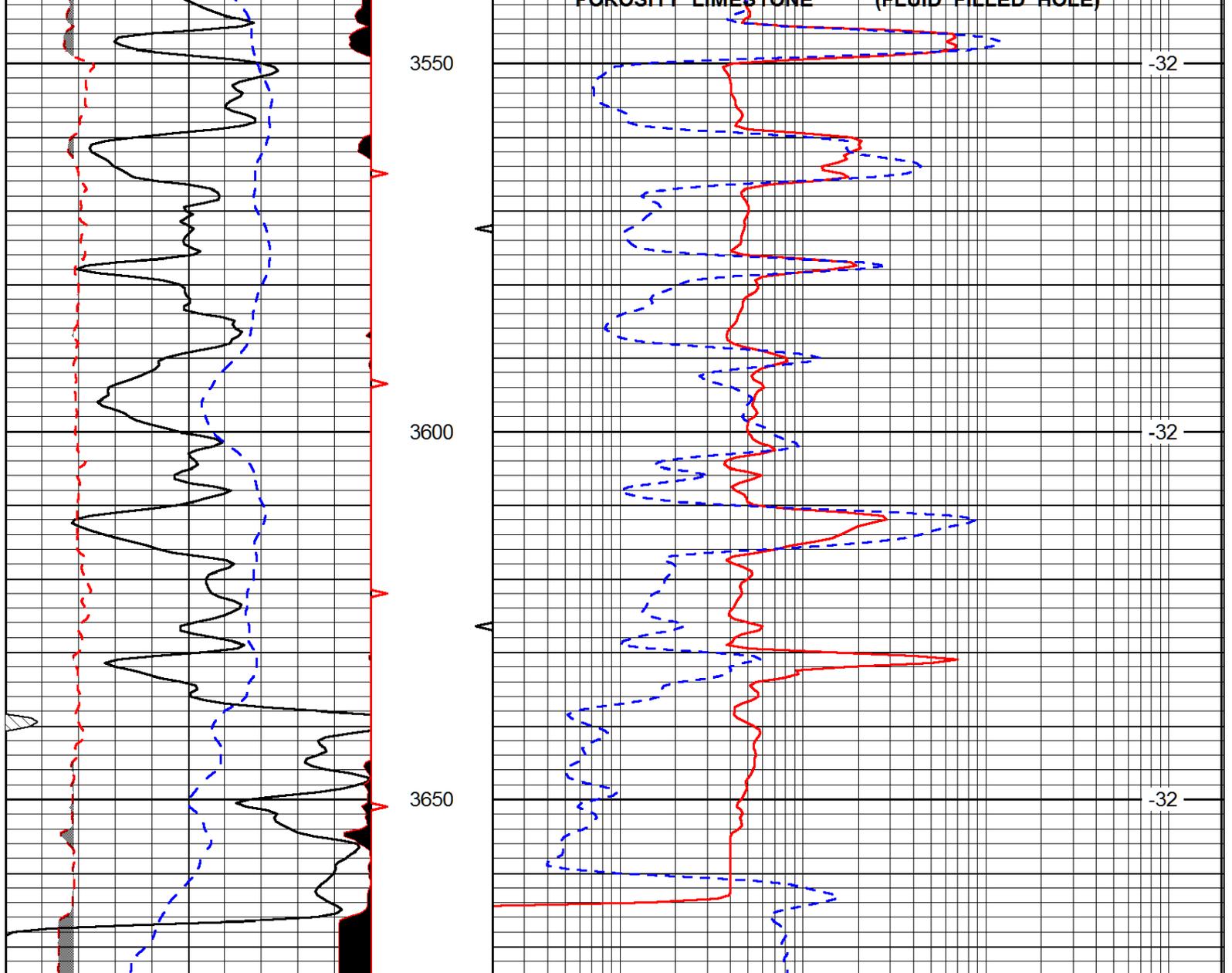
3300

-33





POROSITY LIMESTONE (FLUID FILLED HOLE)



0	Gamma Ray (GAPI)	150	0.2	LGRD (Ohm-m)	2000
6	SCAL (in)	16	560	SWNC (NAPI)	2160
-200	sp (mV)	0	15000	Line Tension (lb)	0

LSPD
(ft/min)