



Radiation Guard Log

Pioneer Energy Services

API No.

15-053-21311-00-00

Company **Rains & Williamson Oil Co., Inc.**

Well **Kniffin #1**

Field **Unnamed**

County **Ellsworth** State **Kansas**

Location

2310' FNL & 330' FWL

Other Services

None

Sec: **33** Twp: **17S** Rge: **7W**

Permanent Datum **Ground Level** Elevation **1727**

Log Measured From **Kelly Bushing** 13 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing** K.B. 1740
D.F. 1727
G.L. 1727

Date **05/07/2014**

Run Number **One**

Depth Driller **3520**

Depth Logger **3519**

Bottom Logged Interval **3518**

Top Log Interval **250**

Casing Driller **8.625 @ 293**

Casing Logger **292**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **6300**

Density / Viscosity **9.3 63**

pH / Fluid Loss **11.0 9.2**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.42 @ 72**

Rmf @ Meas. Temp **0.32 @ 72**

Rmc @ Meas. Temp **0.56 @ 72**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.27 @ 113**

Operating Rig Time **3 hours**

Max Rec. Temp. F **113**

Equipment Number **91**

Location **Hays**

Recorded By **D. Schmidt**

Witnessed By **Jim Musgrove**

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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.

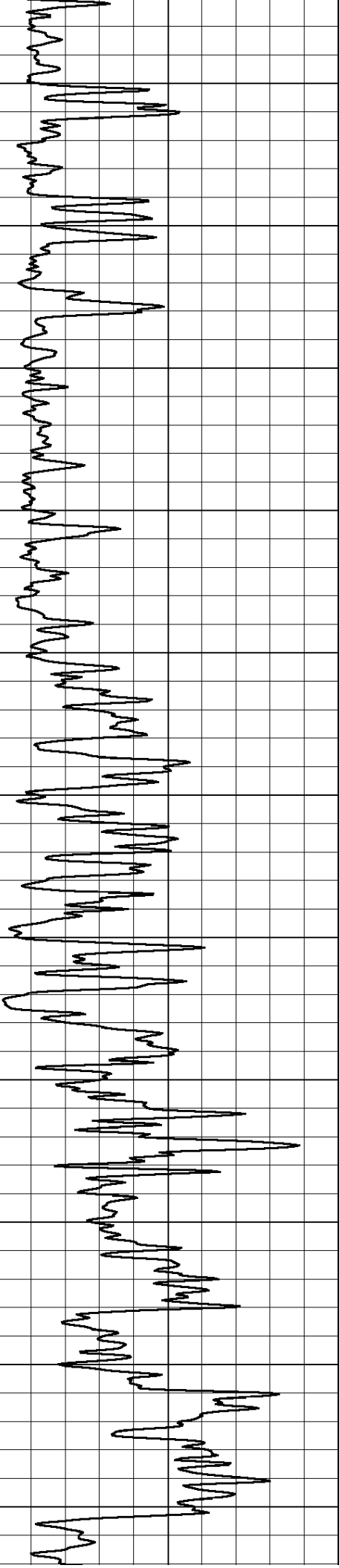
Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Geneseo,
East to 21st Rd, 1/2 North,
East & North into

Database File: rains_050714hd.db
Dataset Pathname: rag/rwrag
Presentation Format: rag2in
Dataset Creation: Thu May 08 02:11:21 2014
Charted by: Depth in Feet scaled 1:600





800

850

900

950

1000

1050

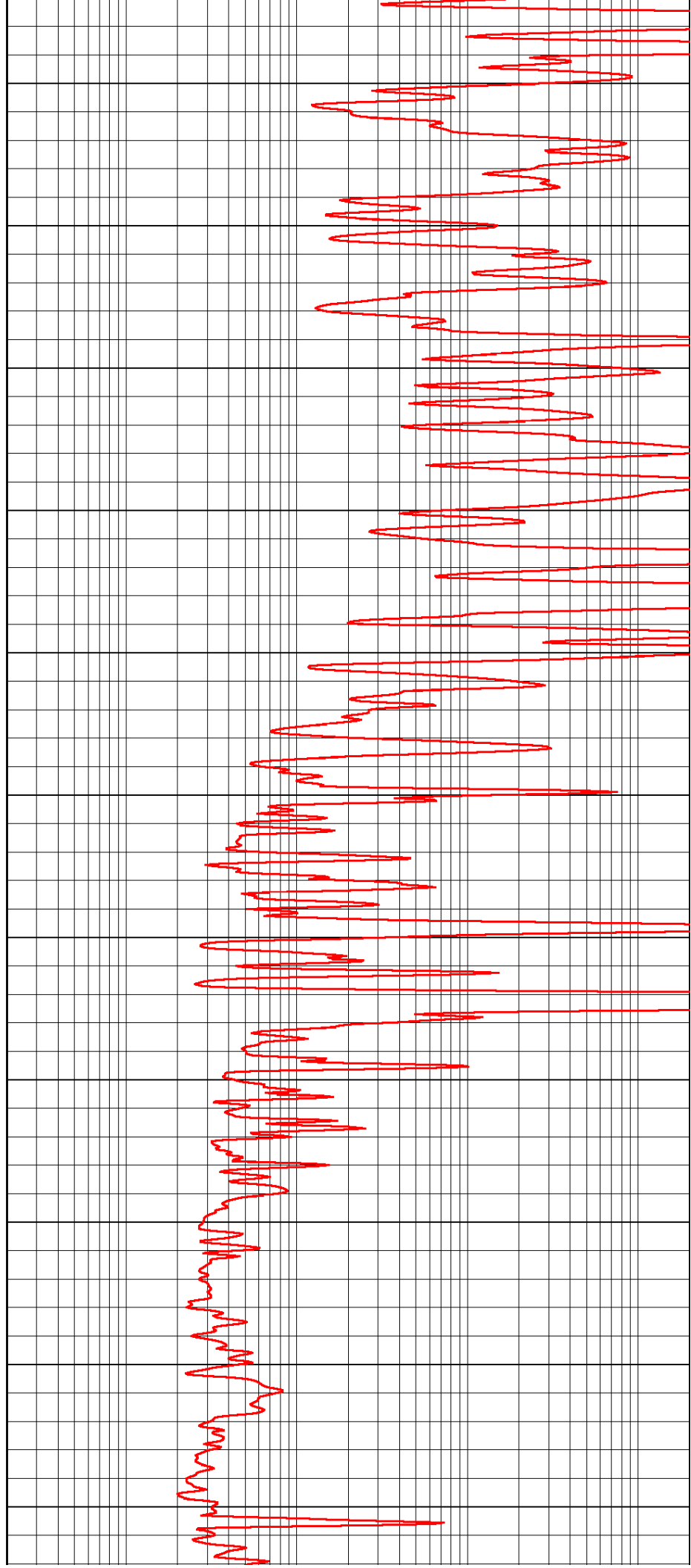
1100

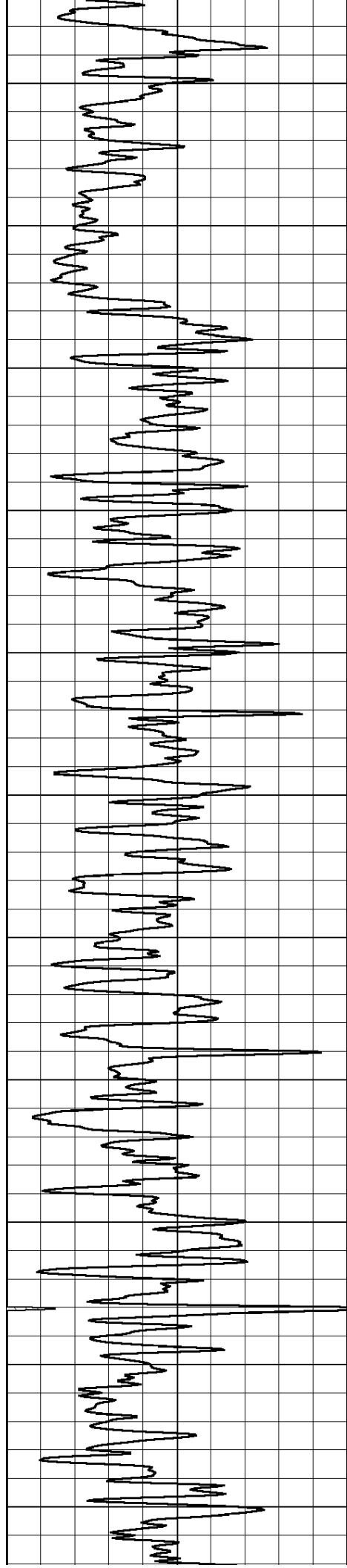
1150

1200

1250

1300





1350

1400

1450

1500

1550

1600

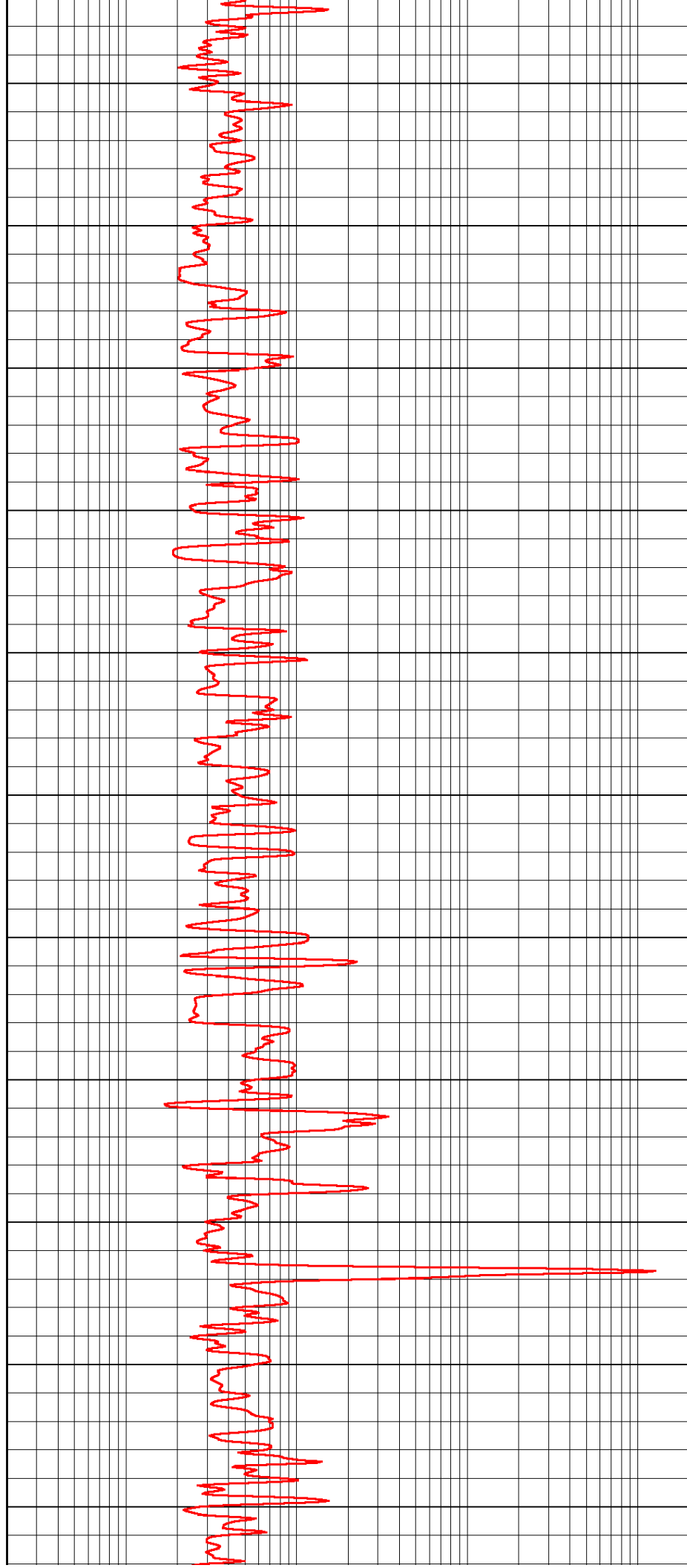
1650

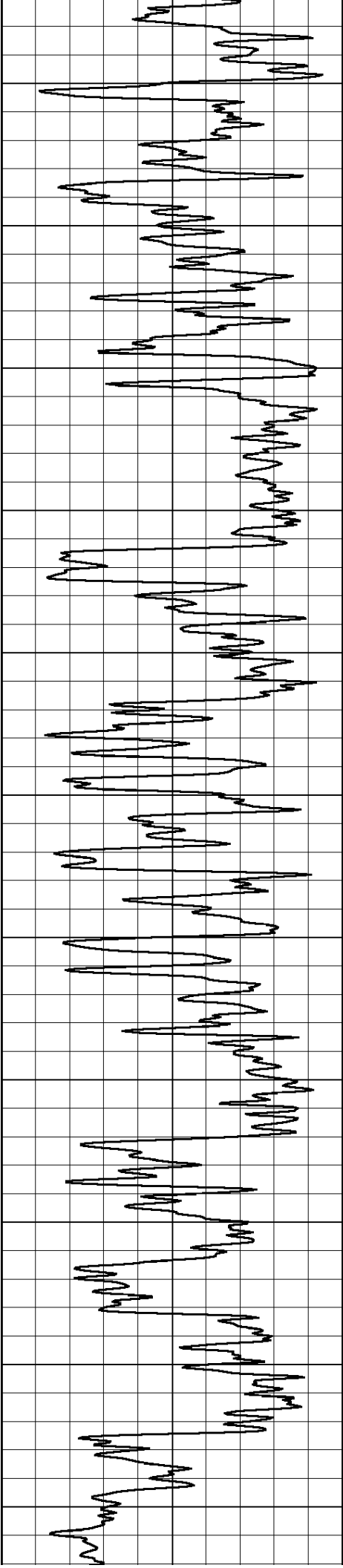
1700

1750

1800

1850





1900

1950

2000

2050

2100

2150

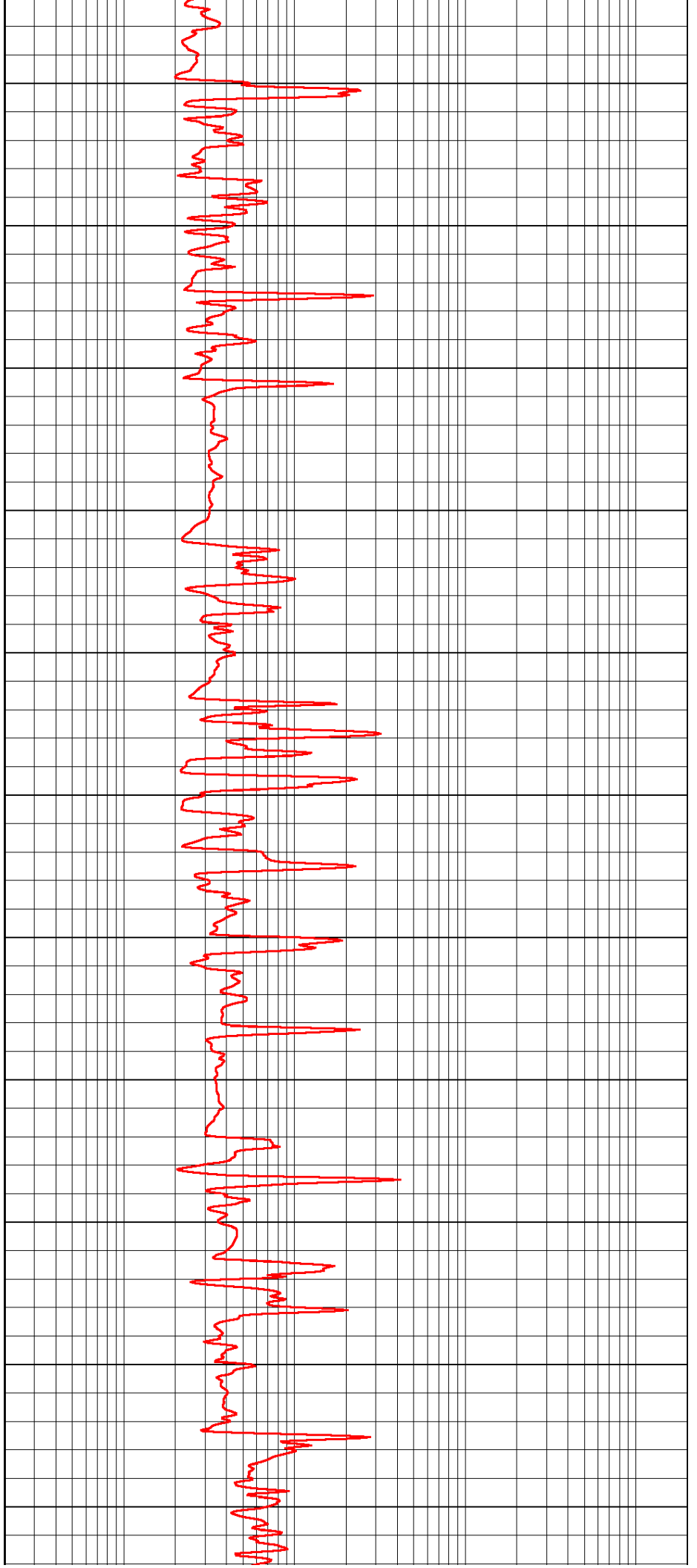
2200

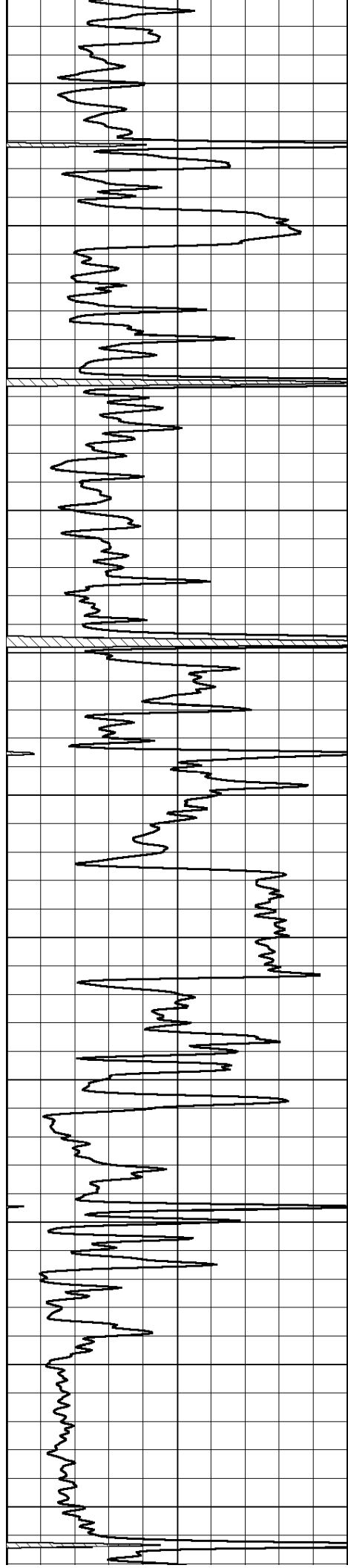
2250

2300

2350

2400





2450

2500

2550

2600

2650

2700

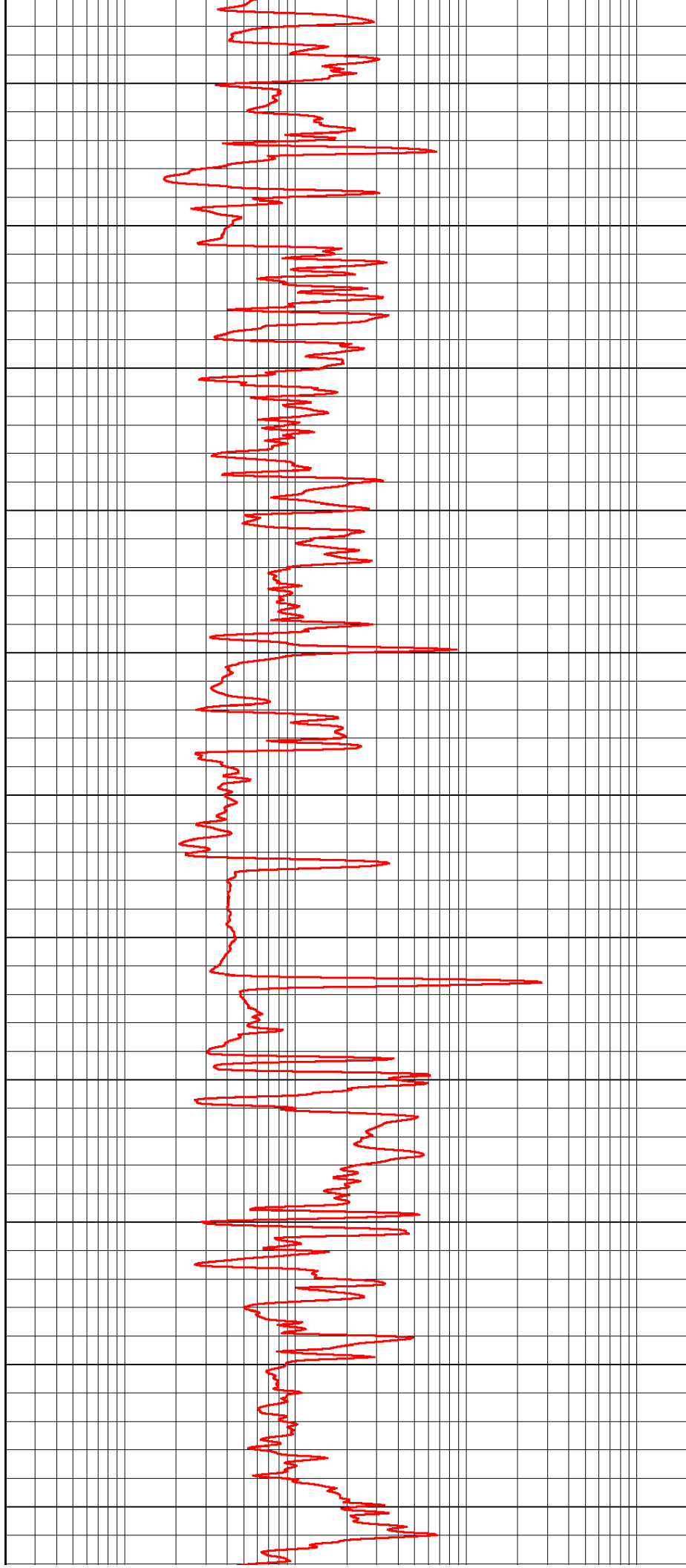
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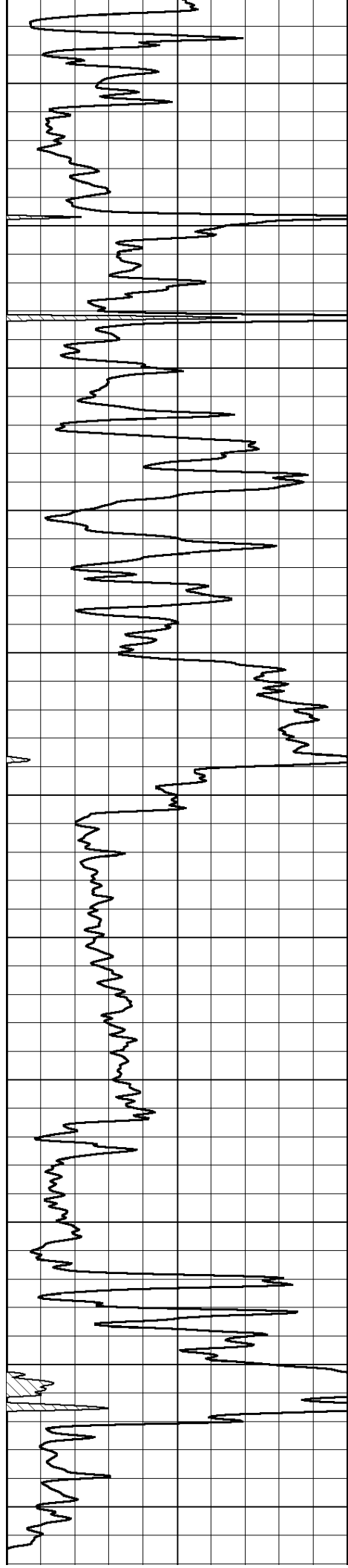
2800

2850

2900

2950





3000

3050

3100

3150

3200

3250

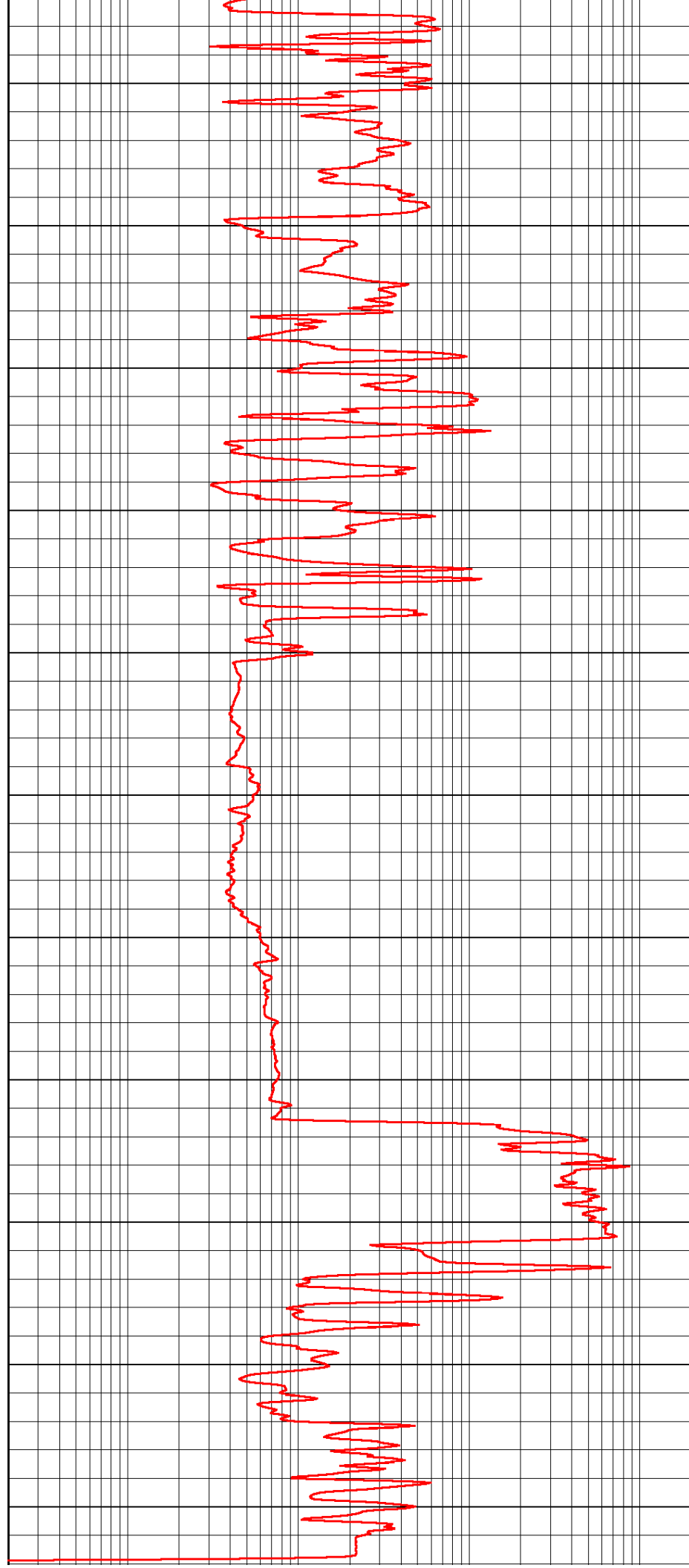
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3350

3400

3450

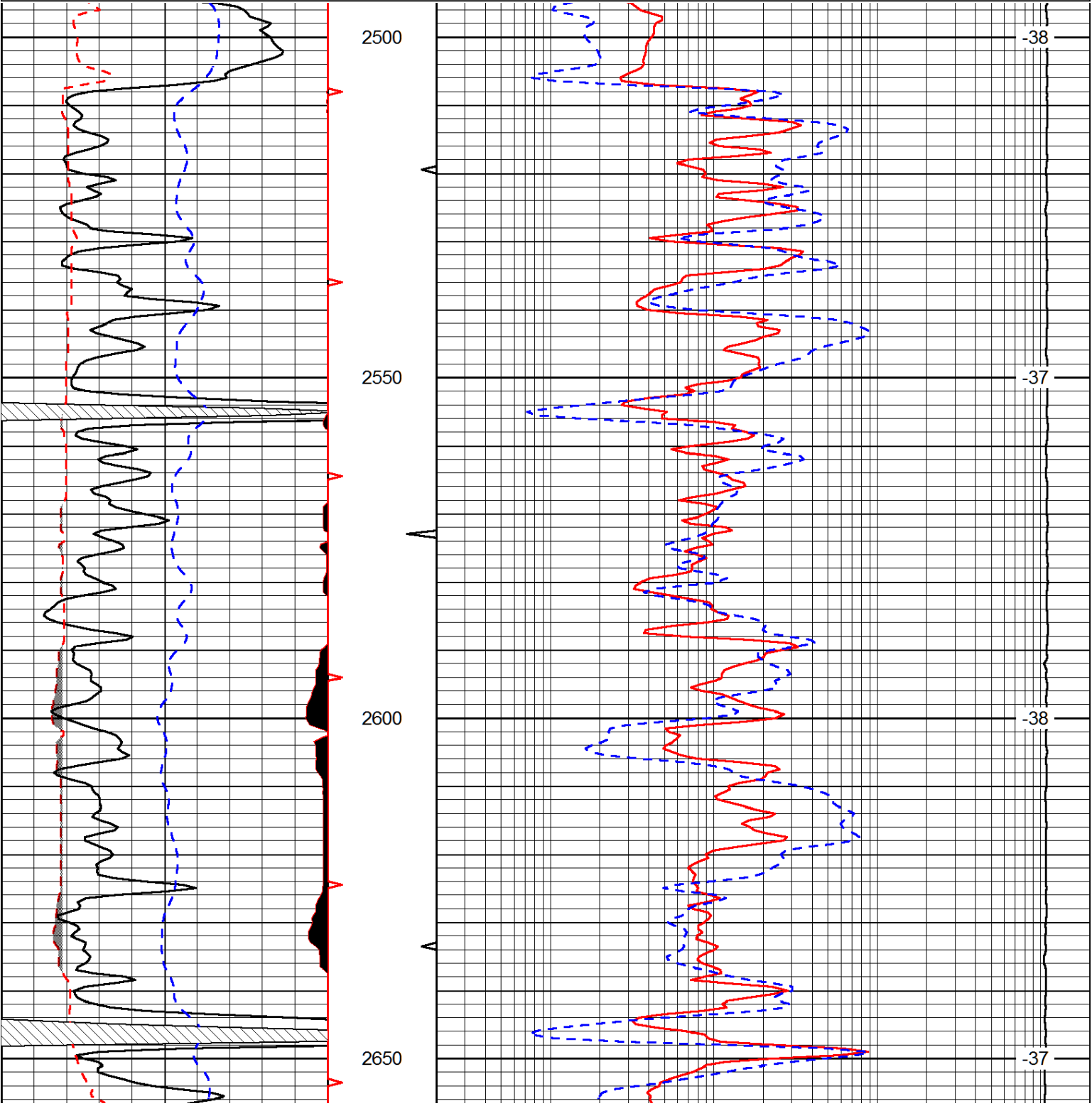
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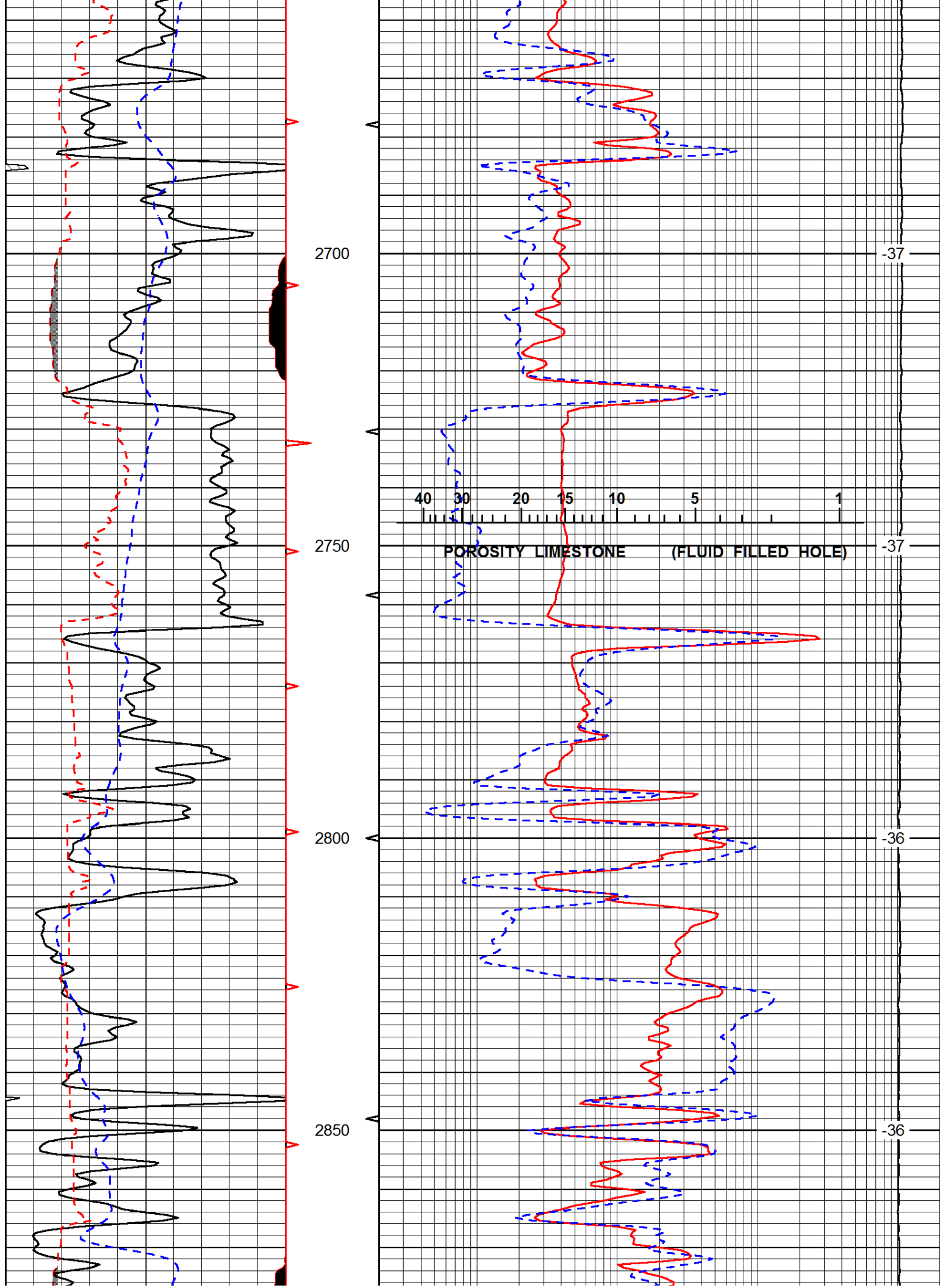


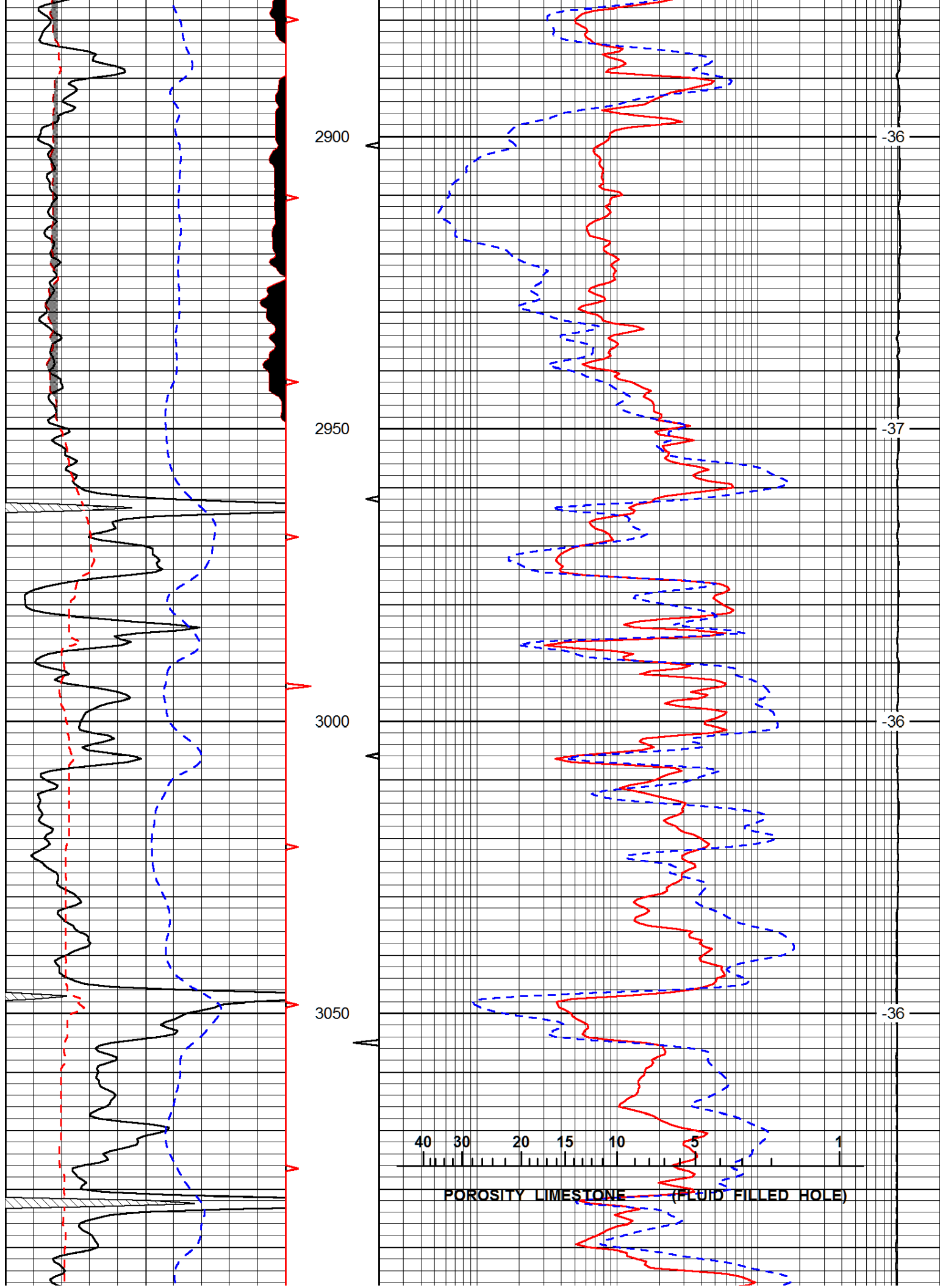
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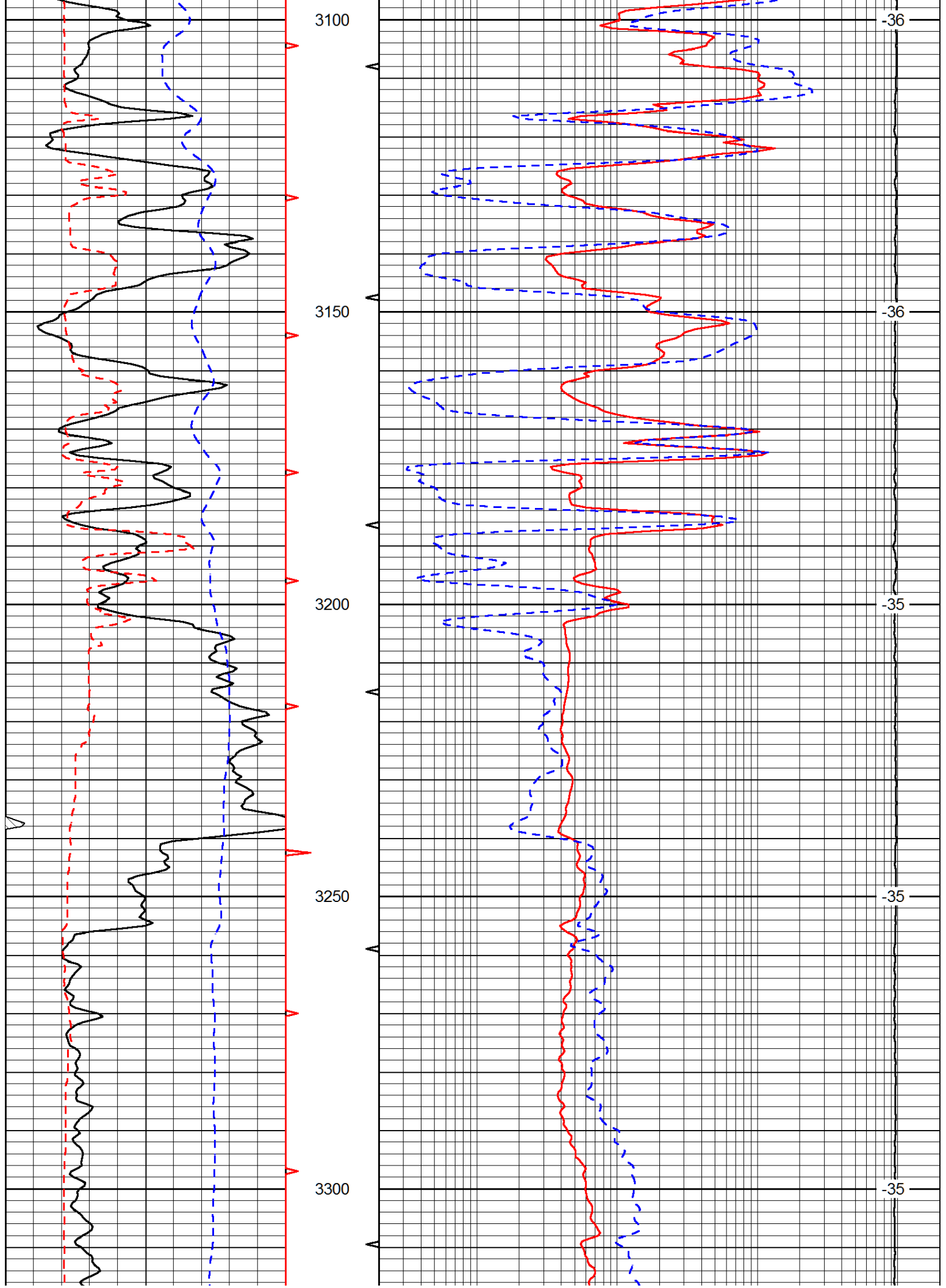
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Presentation Format:	rag
Dataset Creation:	Thu May 08 02:11:21 2014
Charted by:	Depth in Feet scaled 1:240

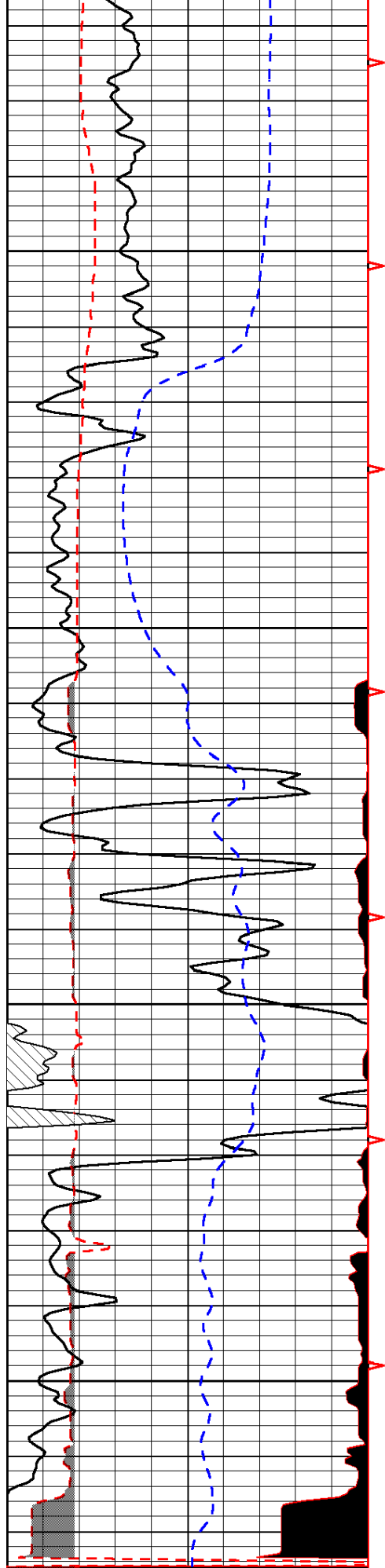
0	Gamma Ray	150	0.2	LGRD	2000
6	Caliper (GAPI)	16	560	SWNC	2160
-200	sp (mV)	0	15000	Line Tension	0
					LSPD



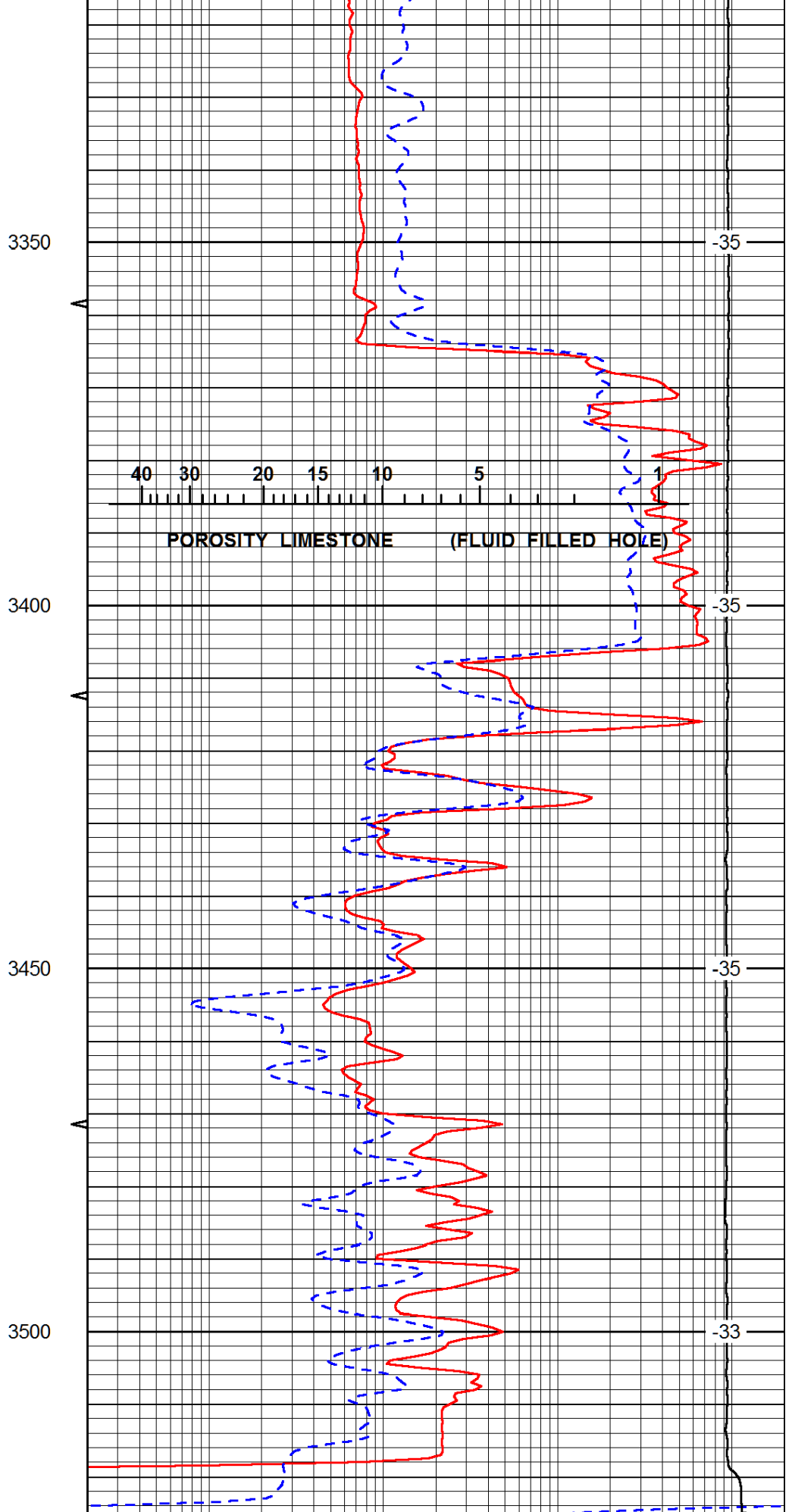








0	Gamma Ray	150
6	Caliper (GAPI)	16



0.2	LGRD	2000
560	SWNC	2160
45000	Line Tension	0

-200	sp (mv)	0	15000	Line tension	0
					LSPD