

LOG-TECH



Dual Induction Log

DIGITAL LOG

(785) 625-3858

API No.

15-101-22,249-00-00

Company Larson Operating Company

Well Harris No. 1-20

Field Cowdery

County Lane State

Kansas

Location 2310' FSL & 1130' FWL

Sec: 20 Twp: 18S Rge: 30W

Permanent Datum Ground Level Elevation 2897
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL
Elevation
K.B. 2904
D.F. G.L. 2897

Date 08/08/2010

Run Number One

Depth Driller 4675

Depth Logger 4680

Bottom Logged Interval 4679

Top Log Interval 250

Casing Driller 8.625 @ 262

Casing Logger 257

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3.000

Density / Viscosity 9.3 68

pH / Fluid Loss 11.5 7.2

Source of Sample Flowline

Rm @ Meas. Temp .9 @ 80

Rmf @ Meas. Temp .67 @ 80

Rmc @ Meas. Temp 1.21 @ 80

Source of Rmf / Rmc Charts

Rm @ BHT .58 @ 125

Operating Rig Time 3 Hours

Max Rec. Temp. F 125

Equipment Number 17

Location Hays

Recorded By Jason Wellbrock

Witnessed By Vern Schrag

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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

Dighton 10W to Arapahoe Rd, 1/2S, E Into

Database File: larshd.db
Dataset Pathname: dil/lar2in
Presentation Format: dil2in
Dataset Creation: Sun Aug 08 08:54:41 2010
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
-200	SP	0

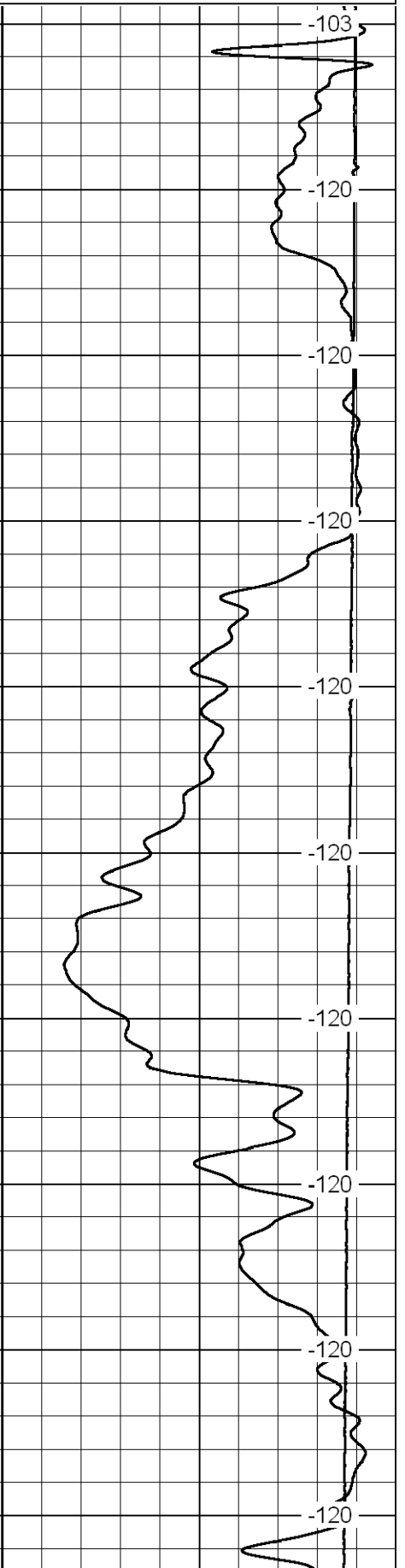
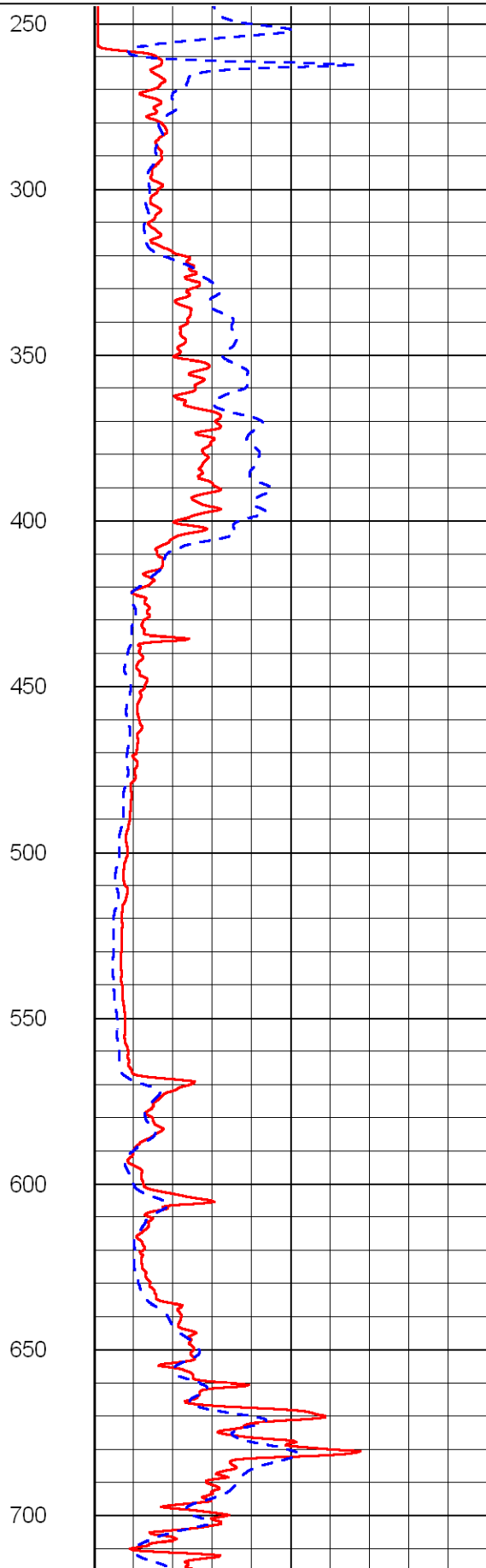
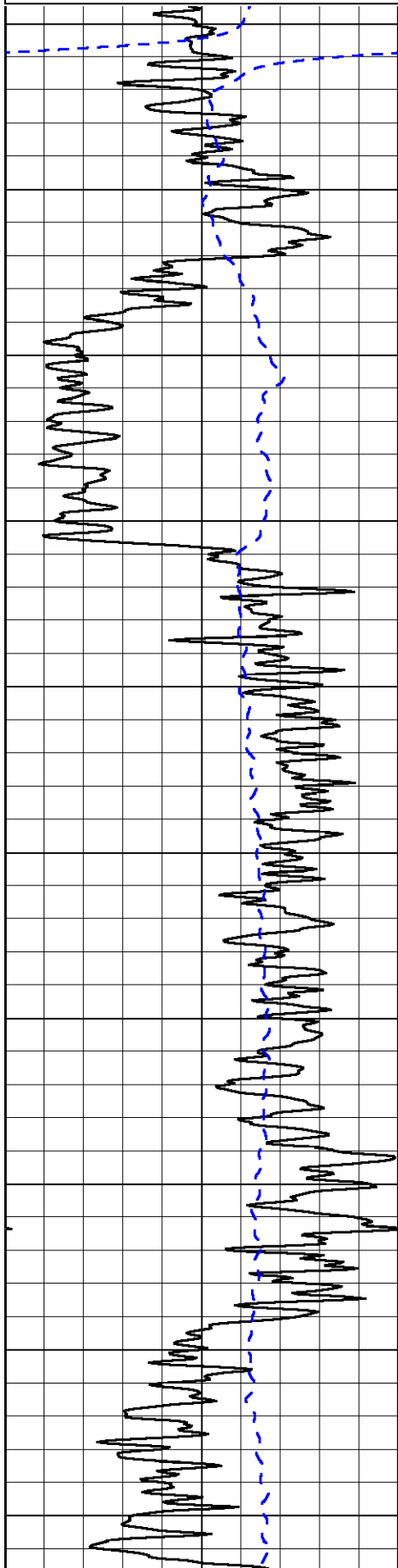
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0	Deep Resistivity	50

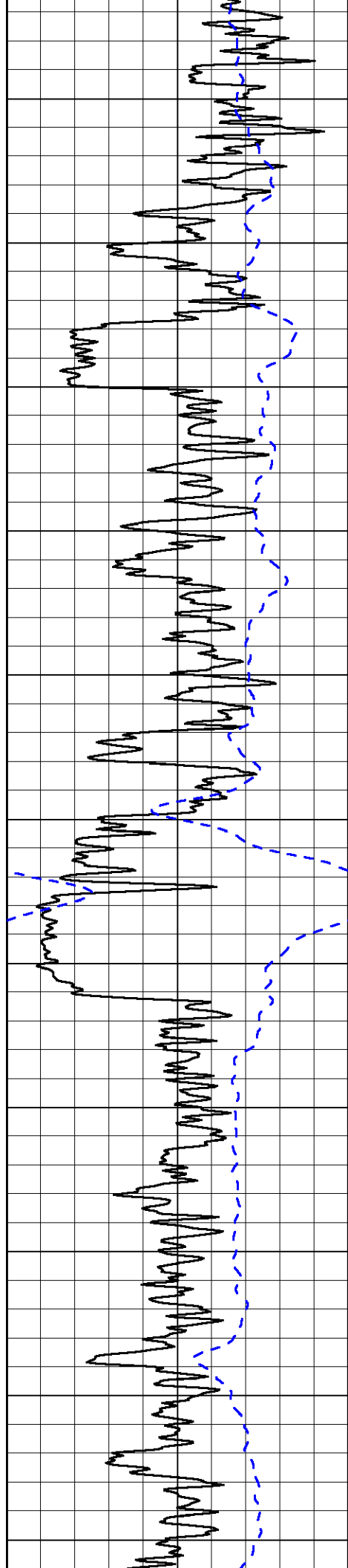
LSPD

1000	Conductivity	0
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15000	Line Tension	0
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50	Shallow Resistivity	500
50	Deep Resistivity	500





750

800

850

900

950

1000

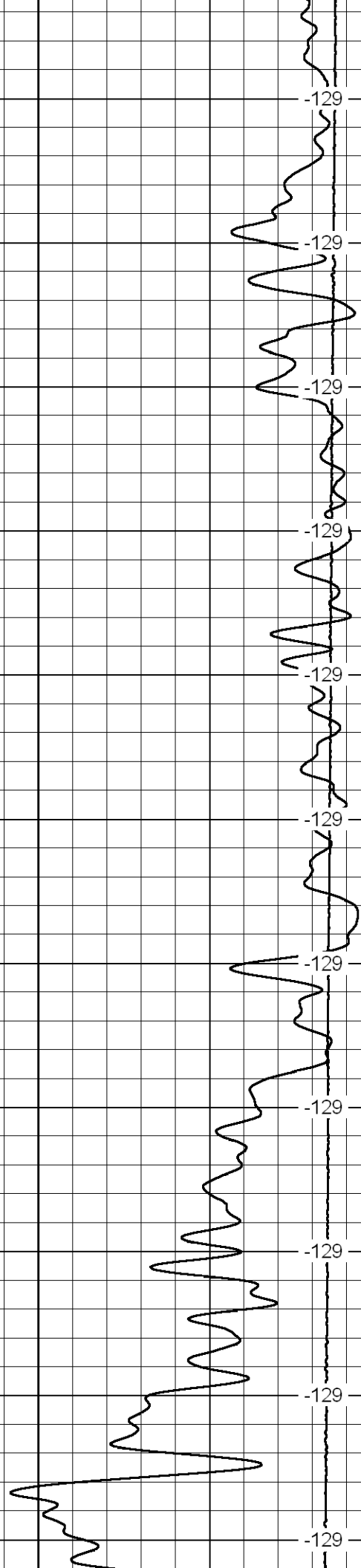
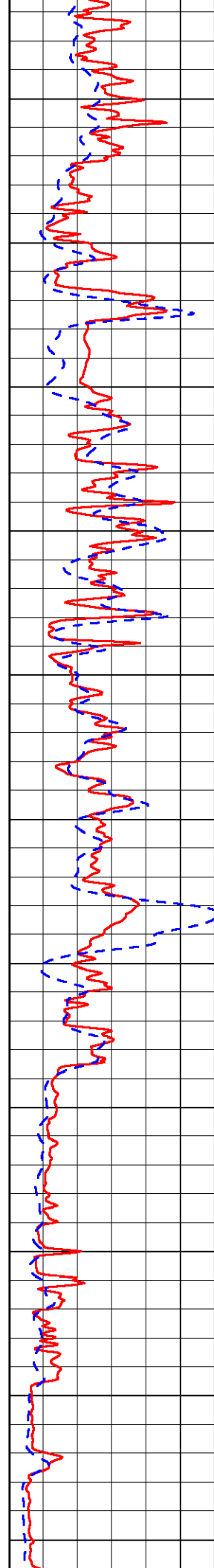
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1100

1150

1200

1250



-129

-129

-129

-129

-129

-129

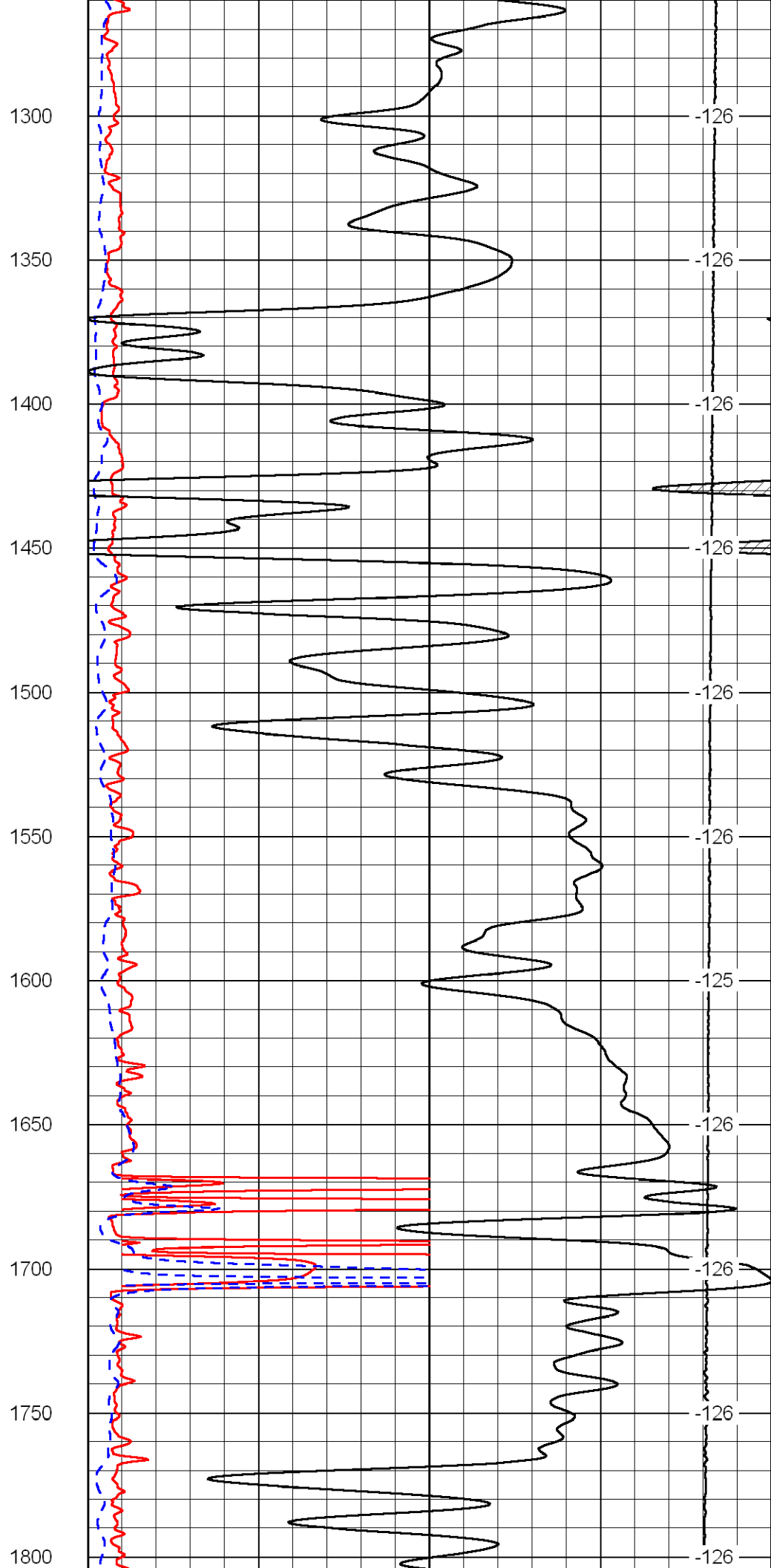
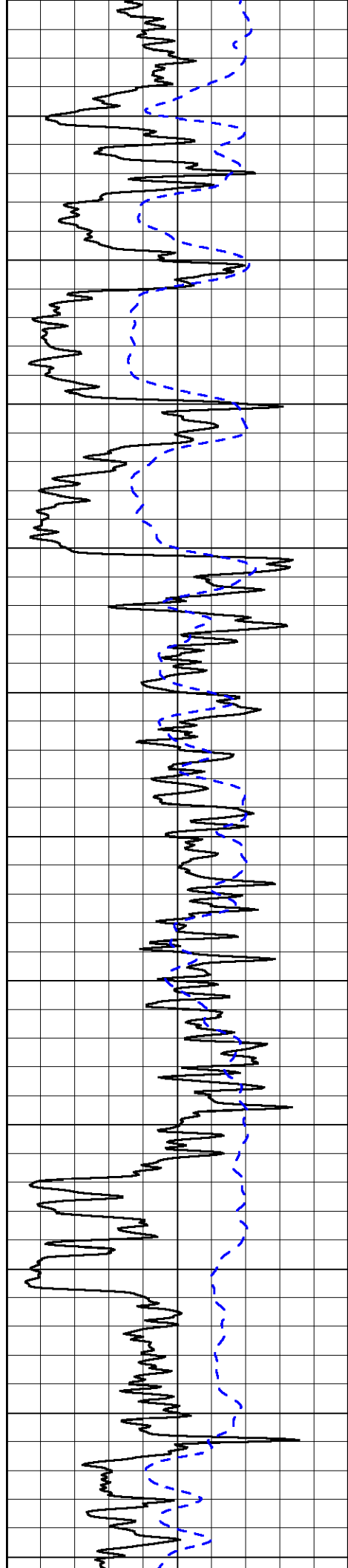
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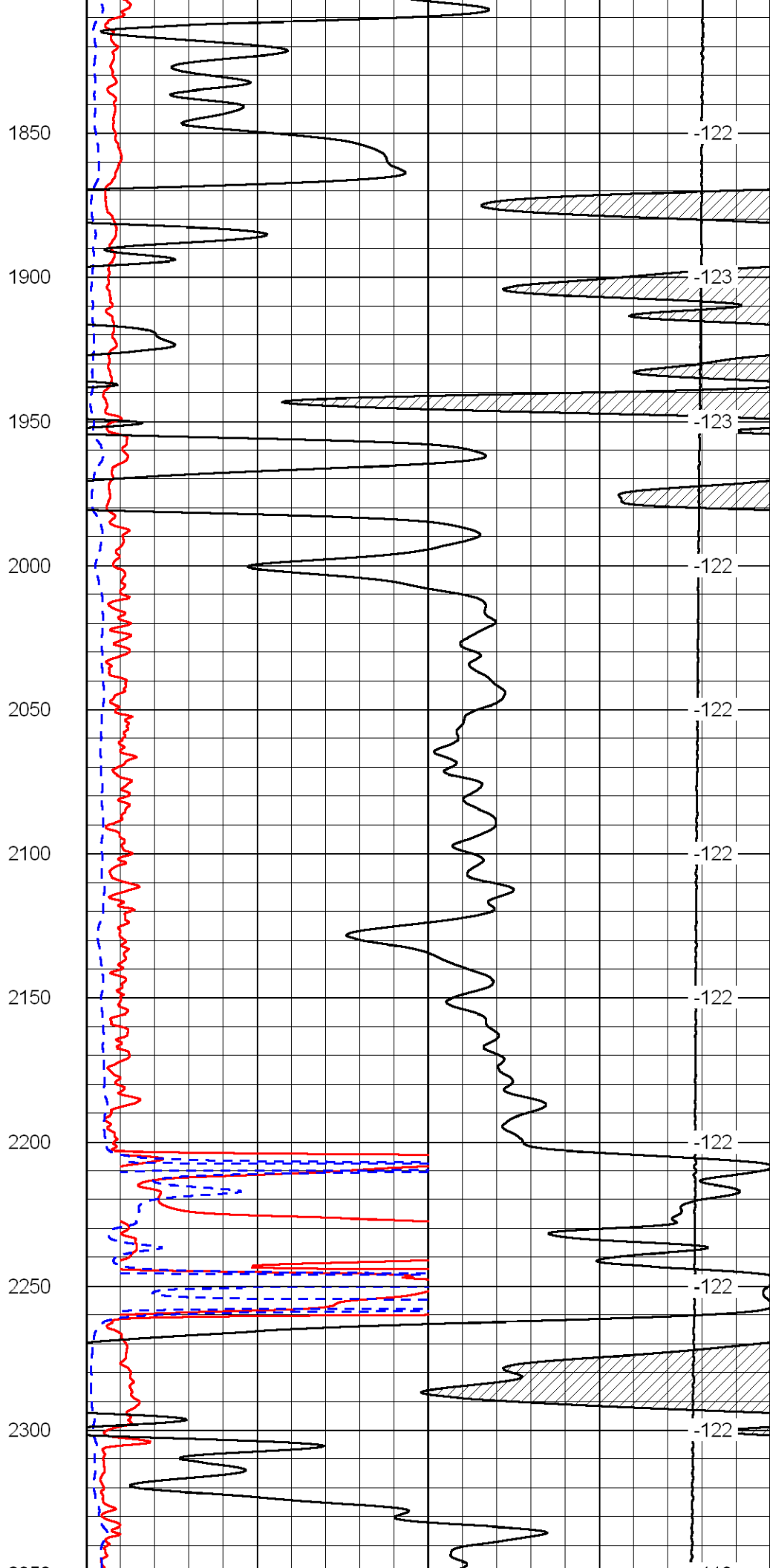
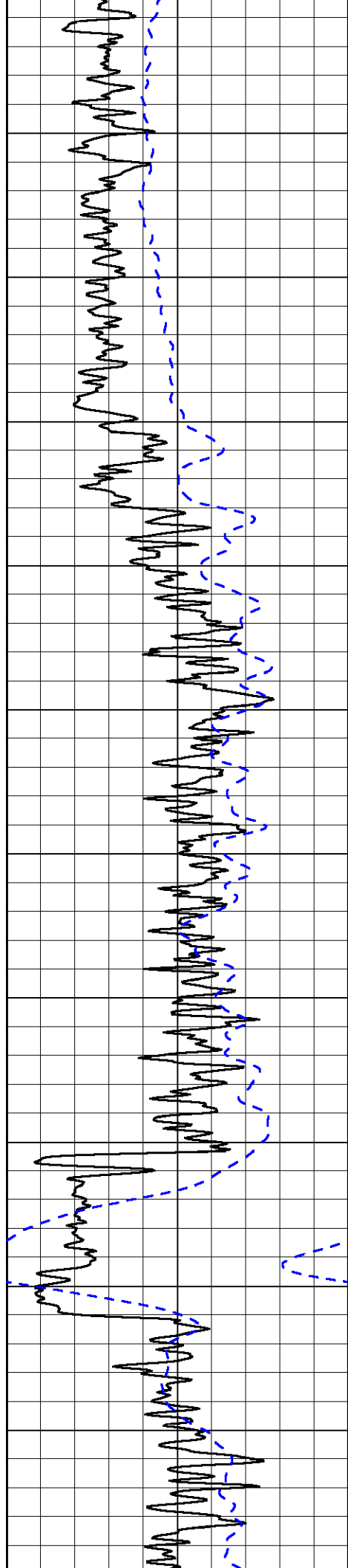
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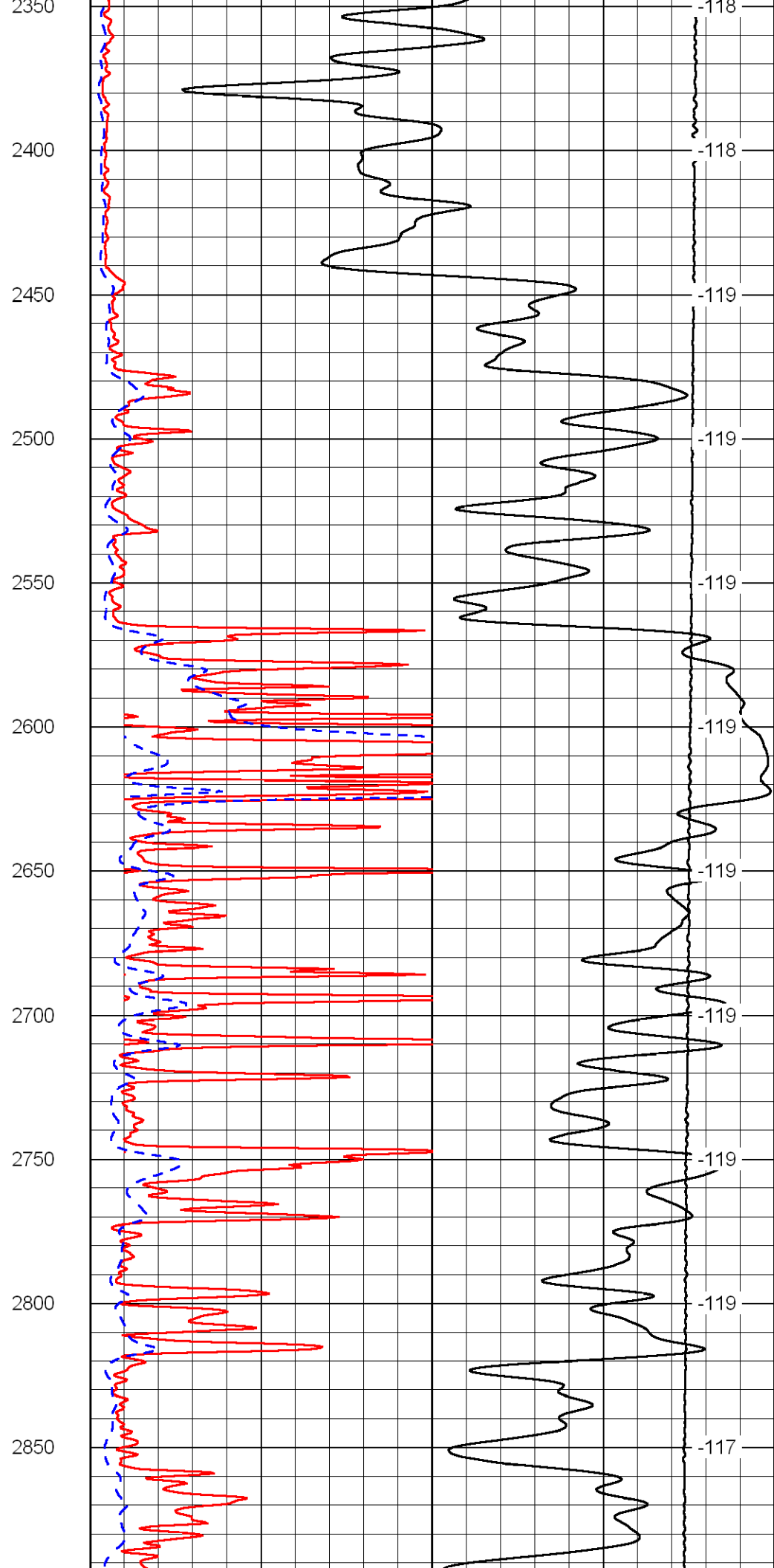
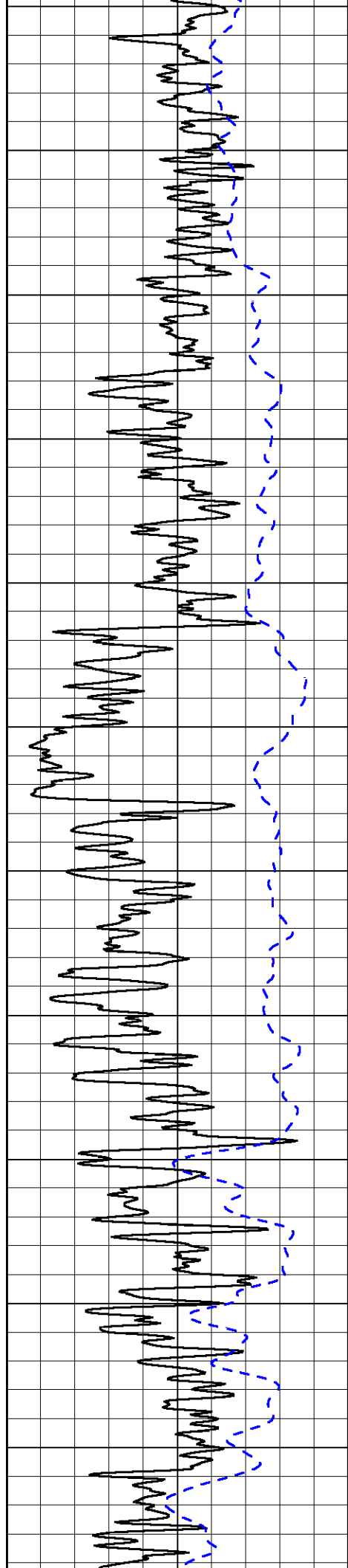
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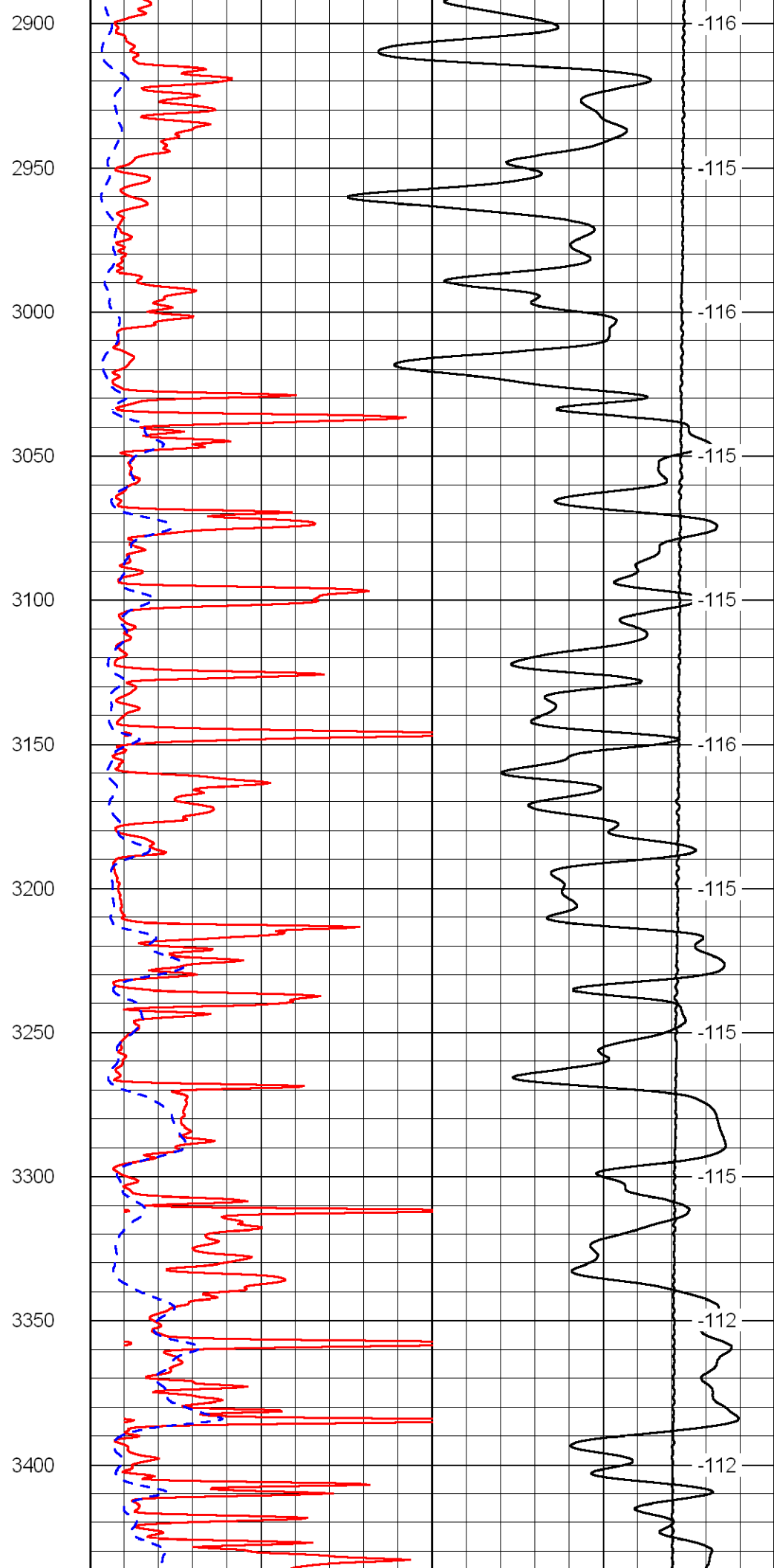
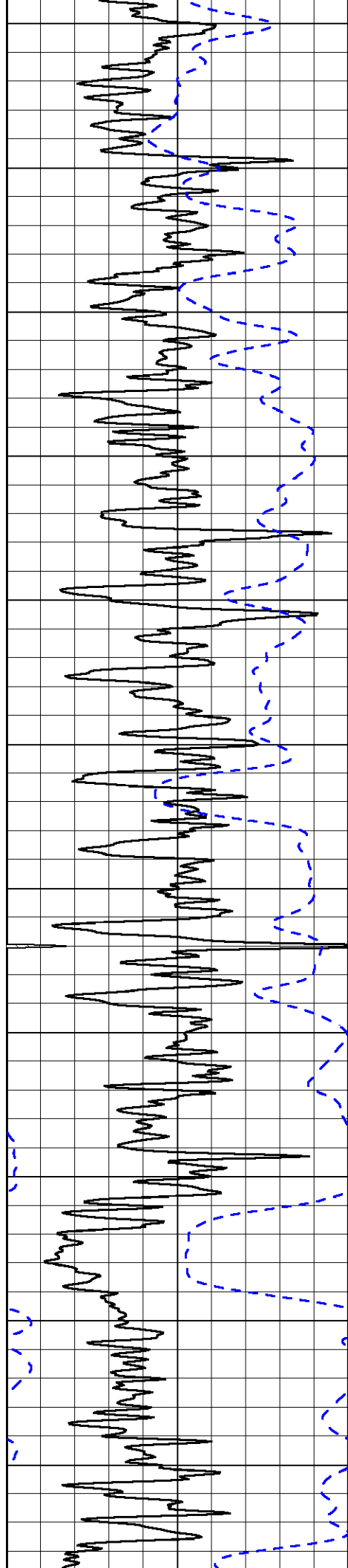
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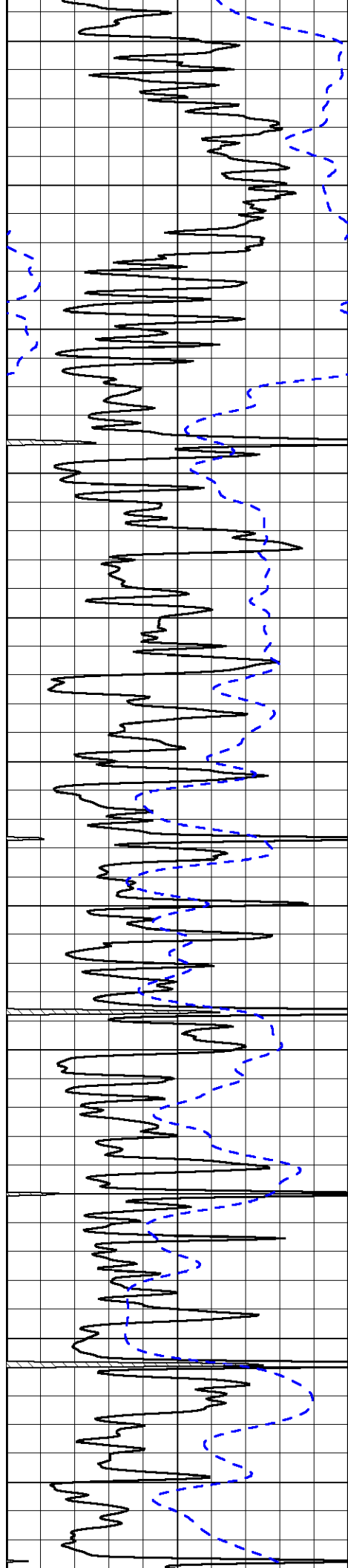
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3450

3500

3550

3600

3650

3700

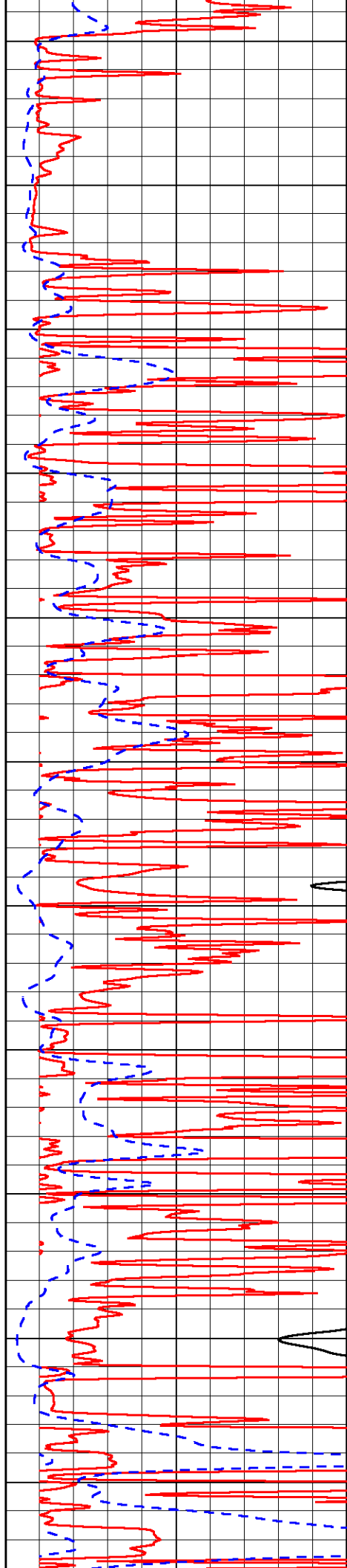
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3800

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3900

3950



-112

-112

-88

-34

-34

-34

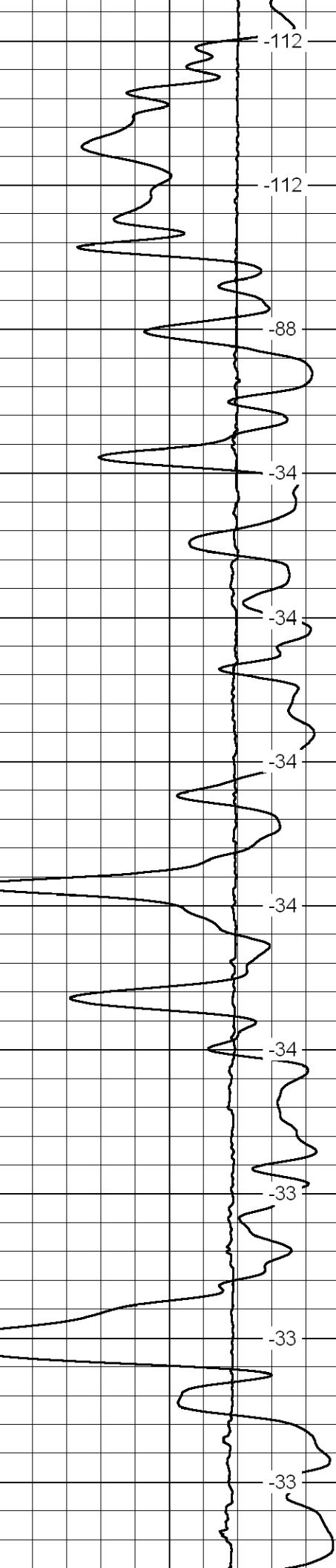
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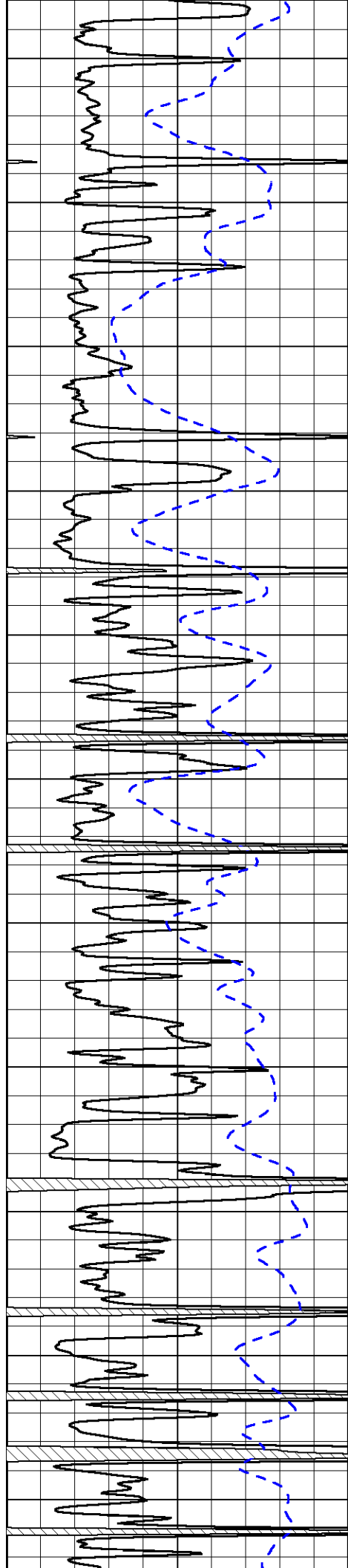
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4000

4050

4100

4150

4200

4250

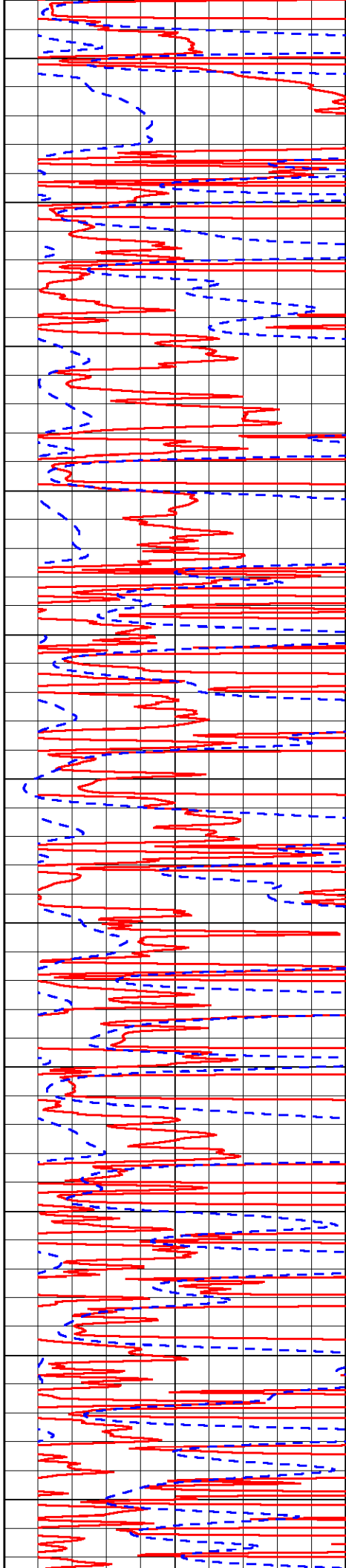
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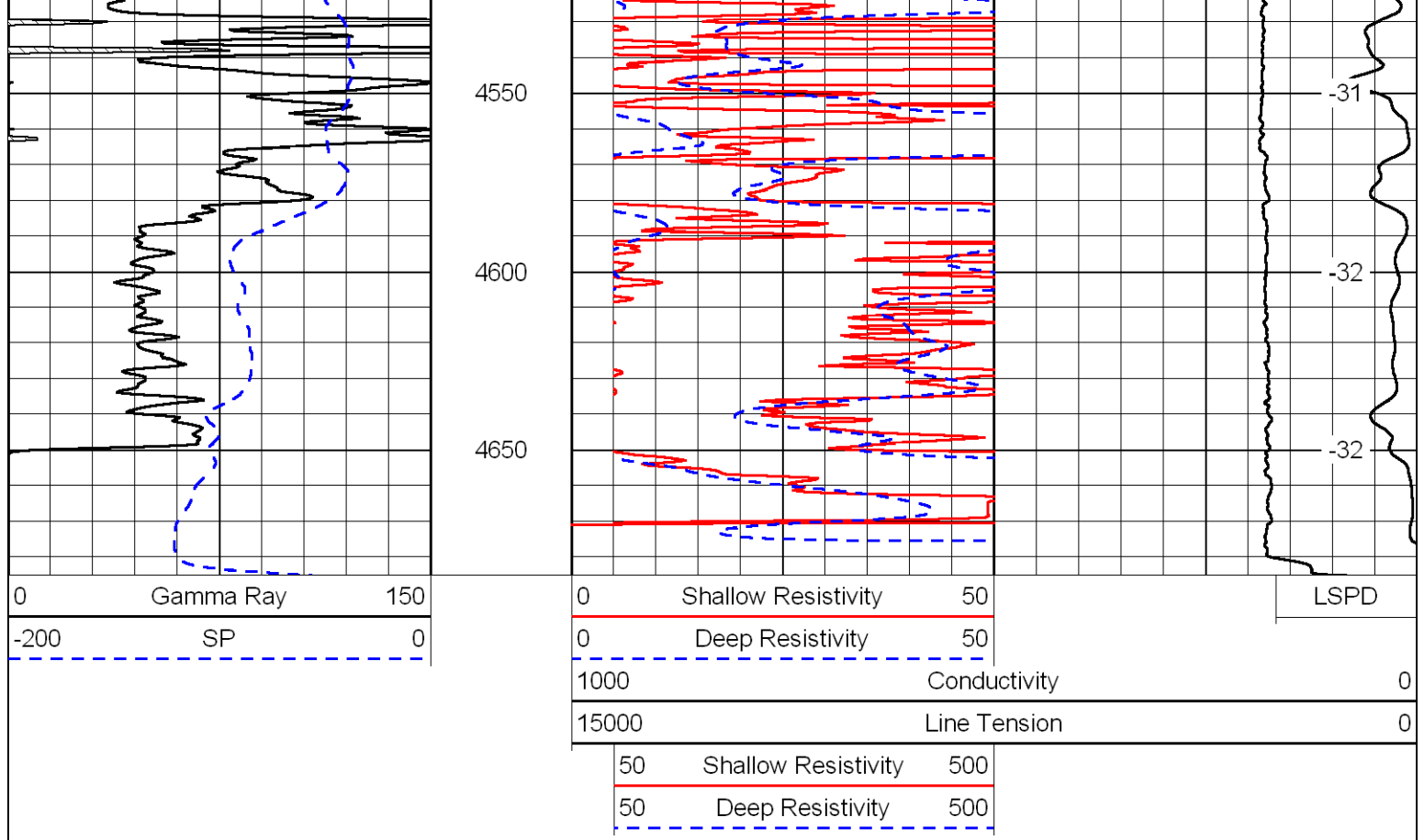
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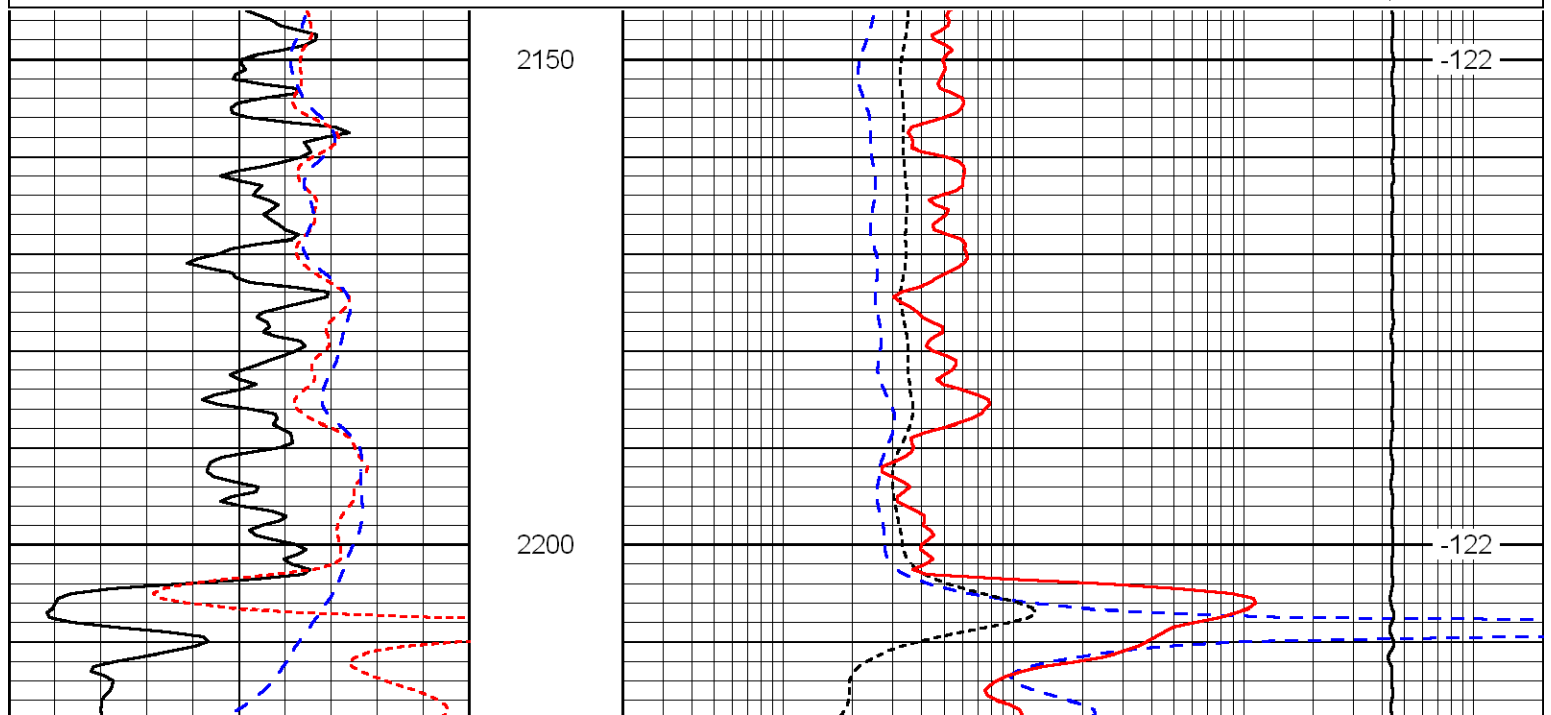
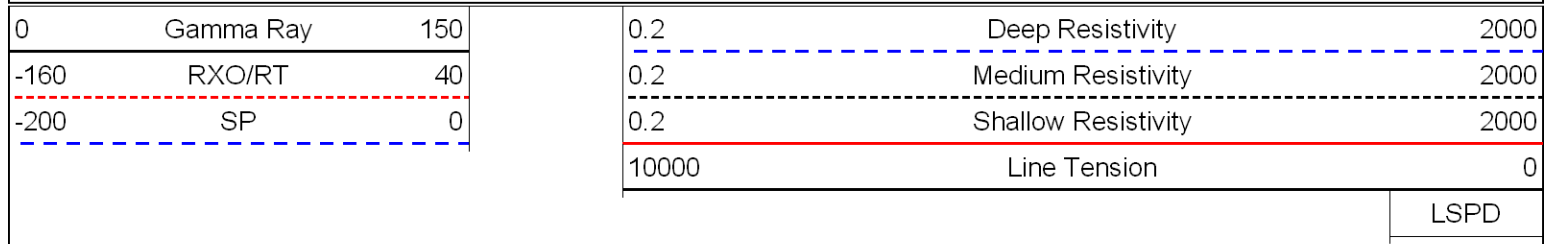
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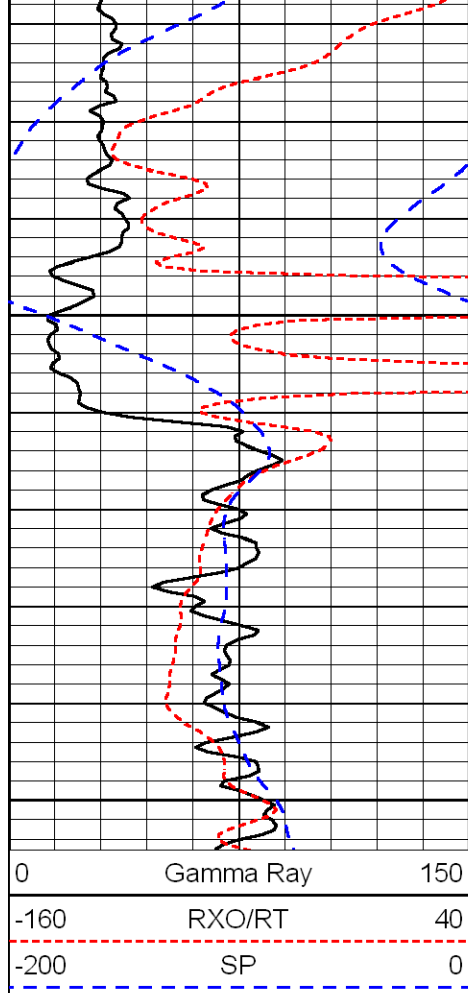
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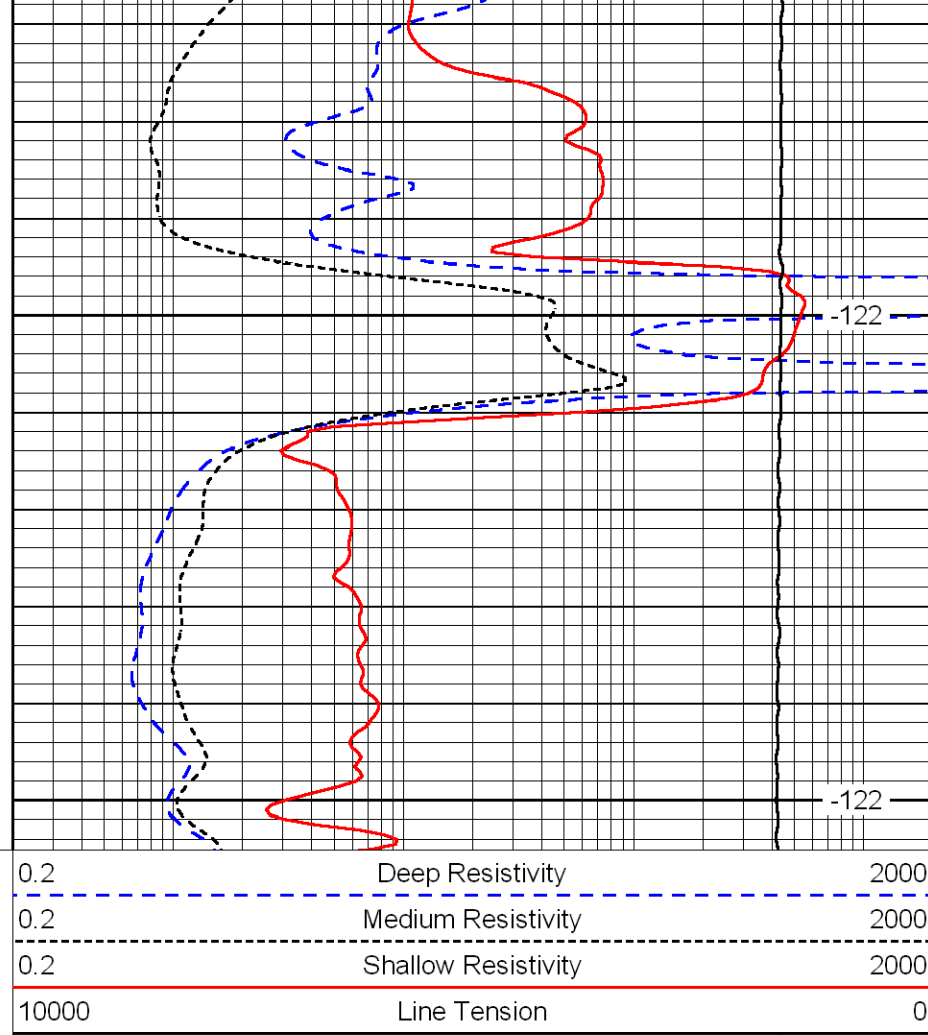
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 Presentation Format: dil
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 Charted by: Depth in Feet scaled 1:240





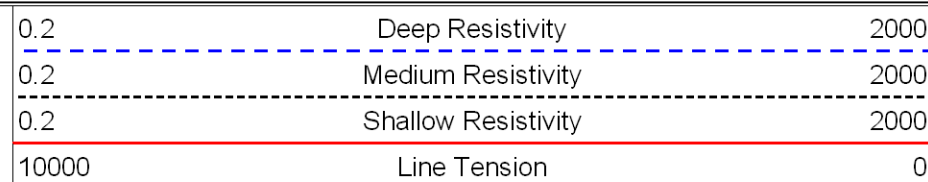
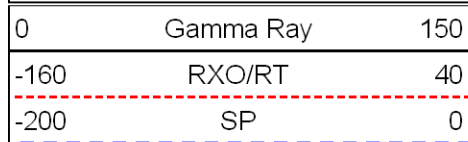
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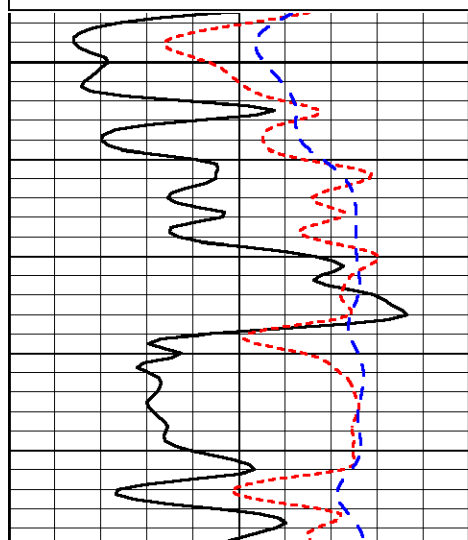


LSPD

Database File: larshd.db
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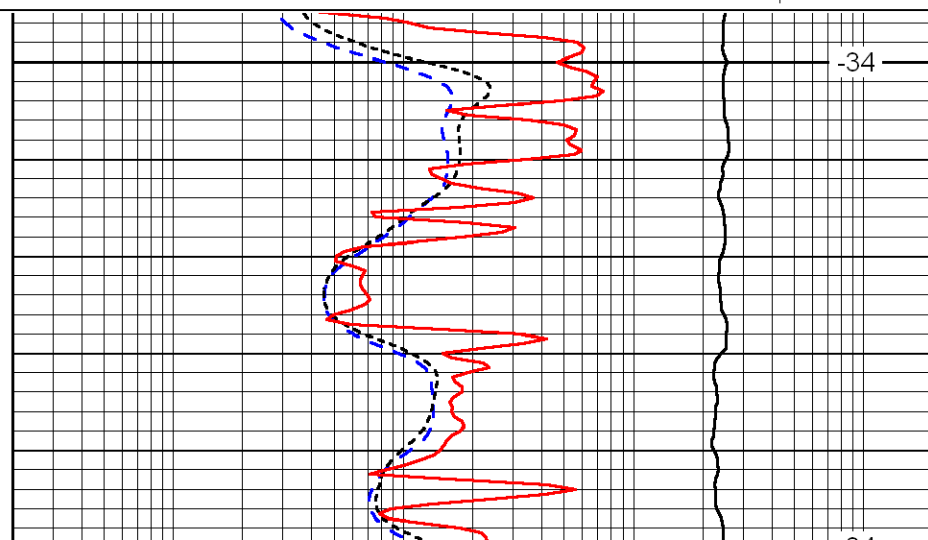


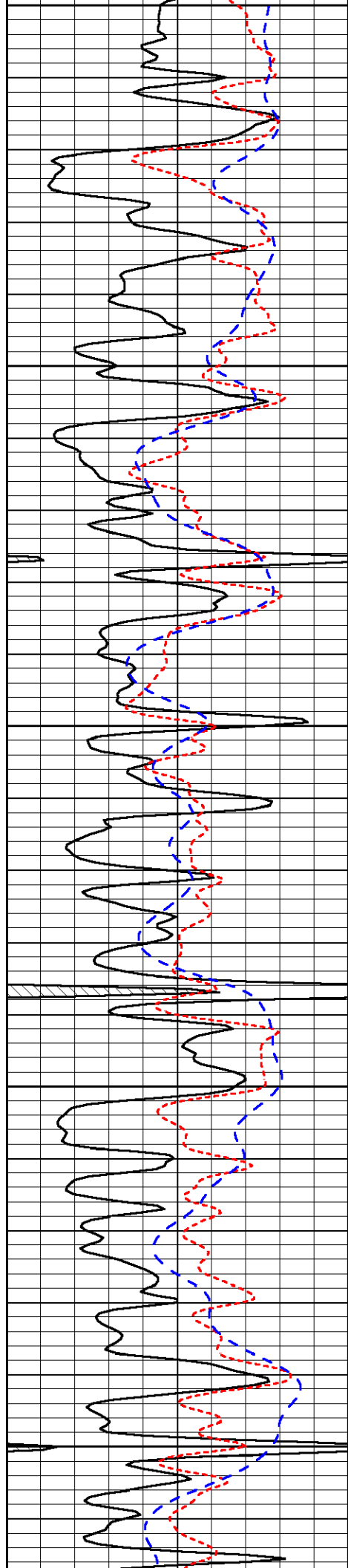
LSPD



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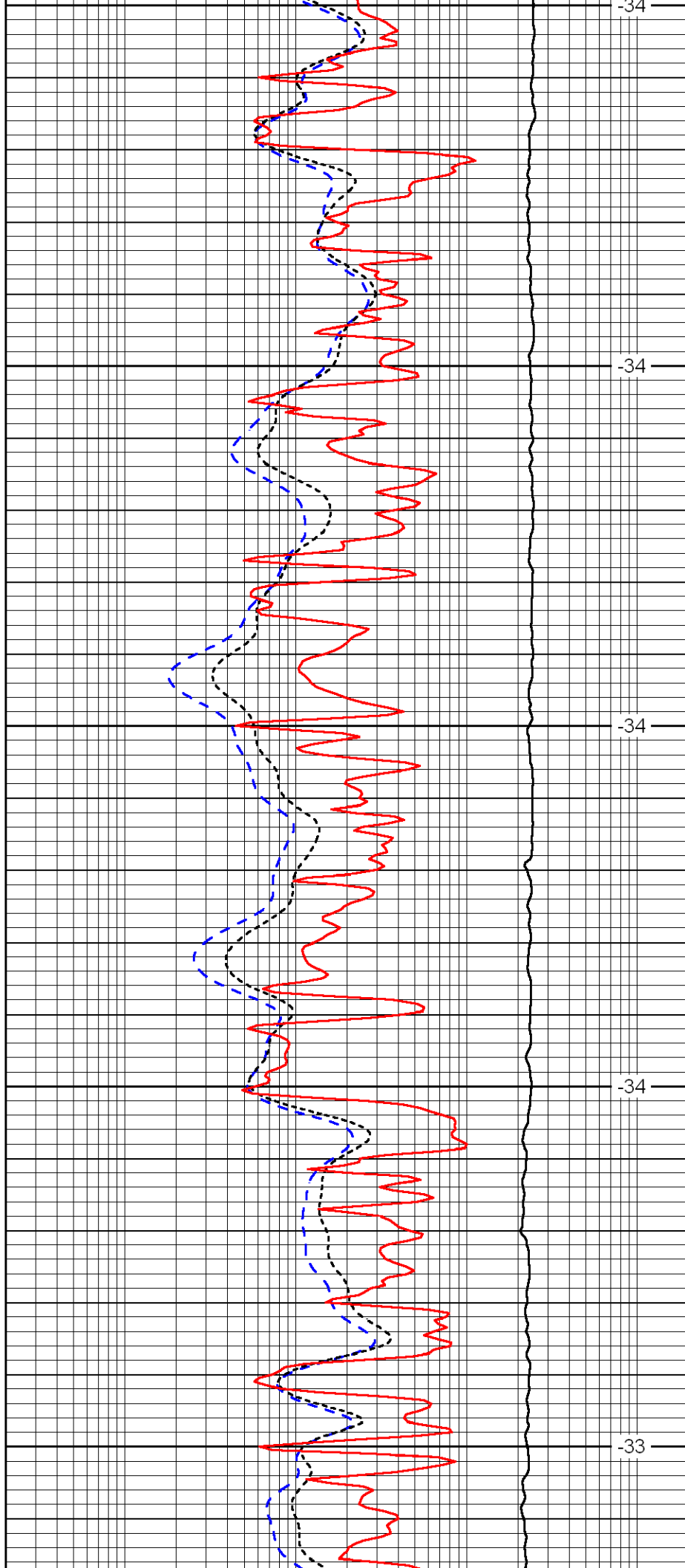
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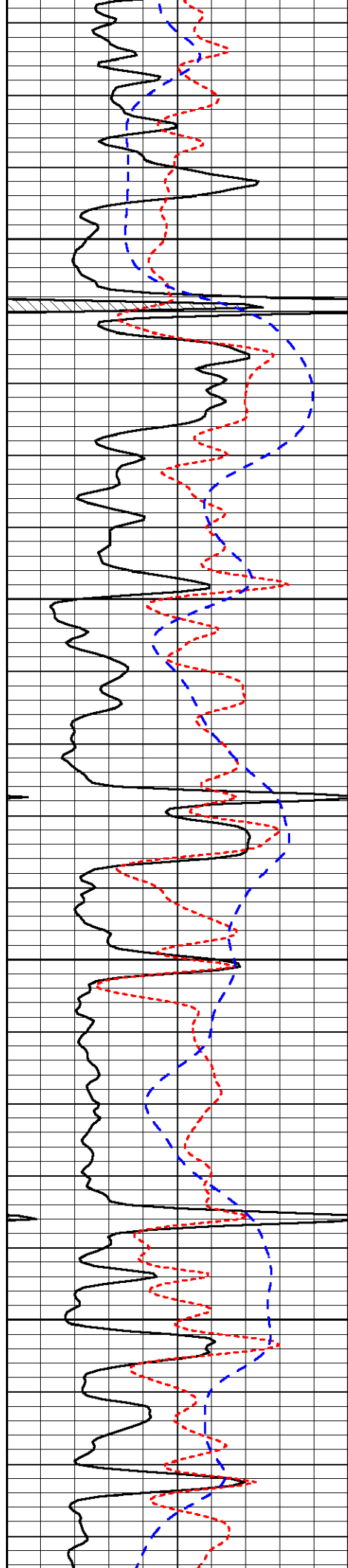
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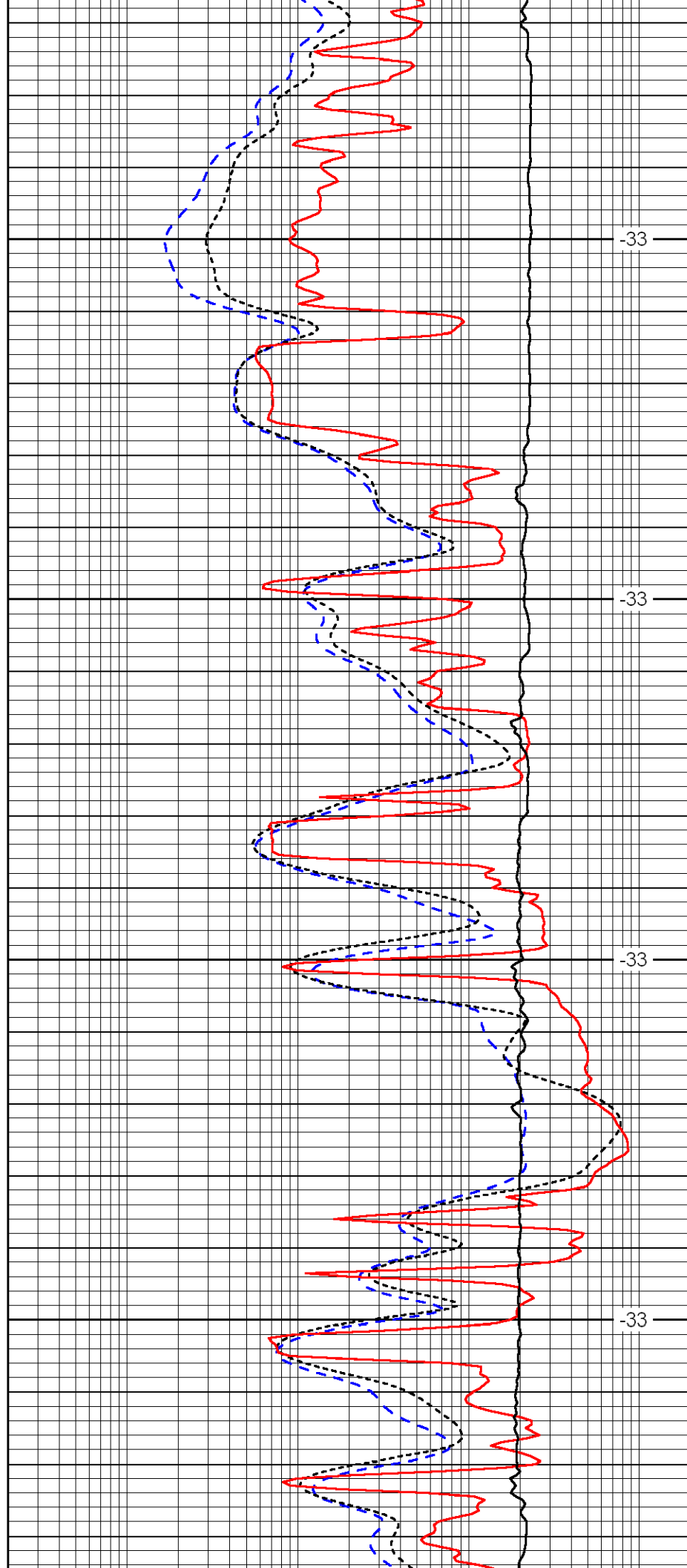


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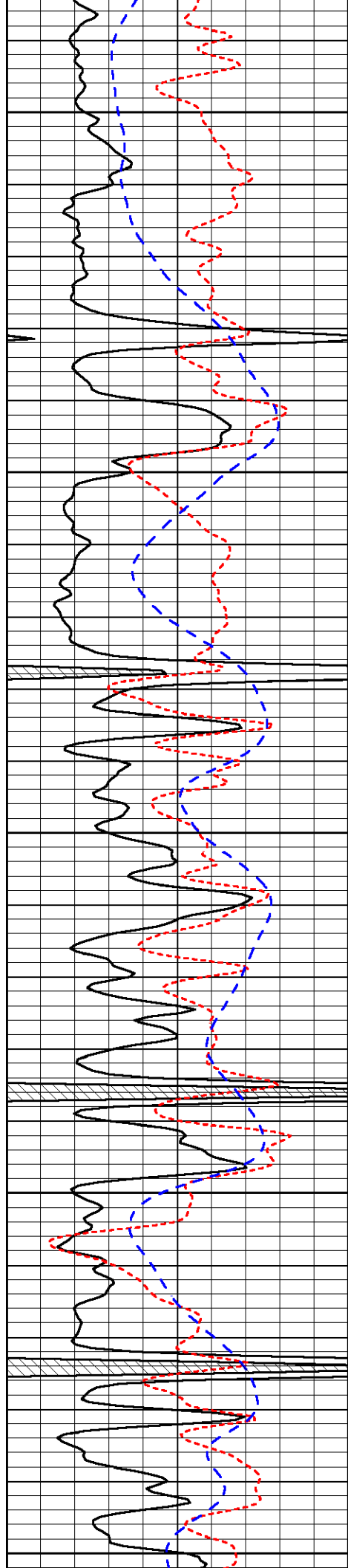


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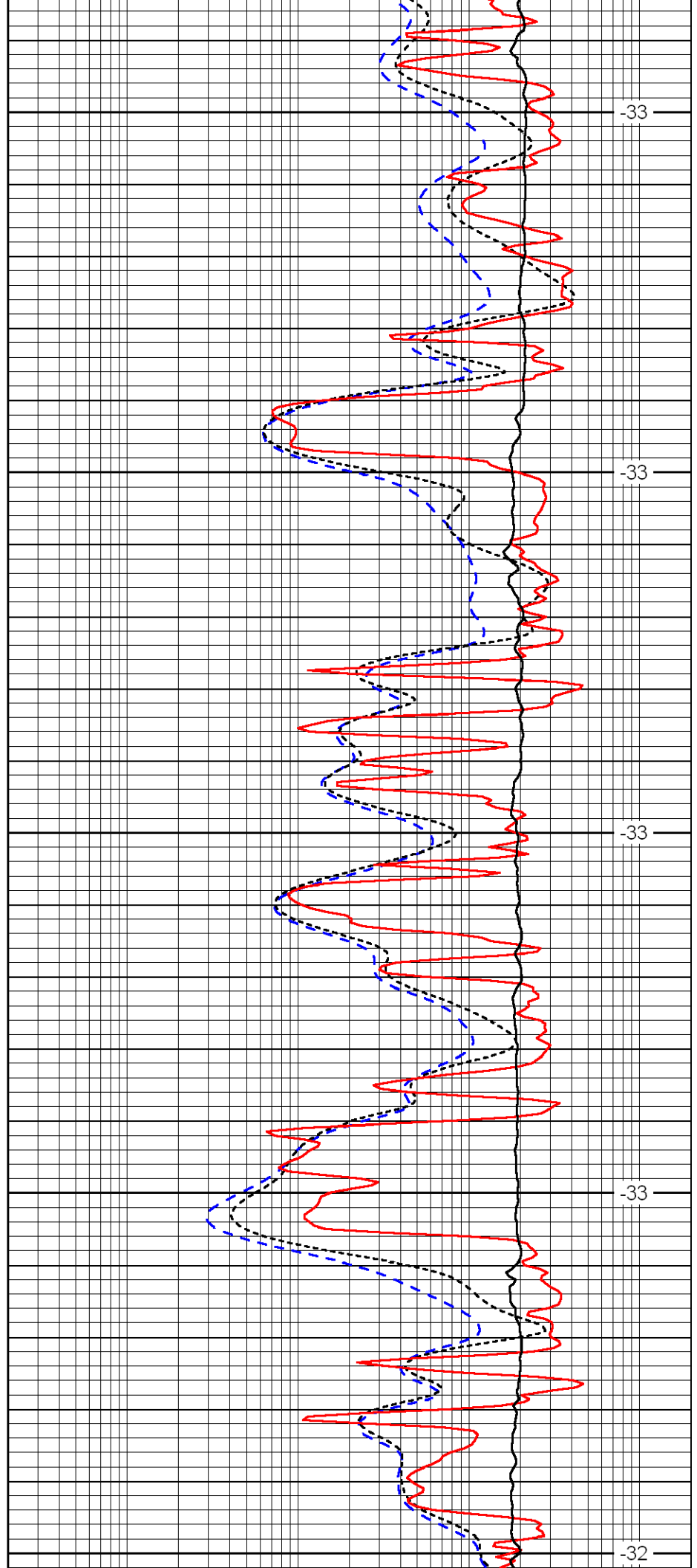
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4300



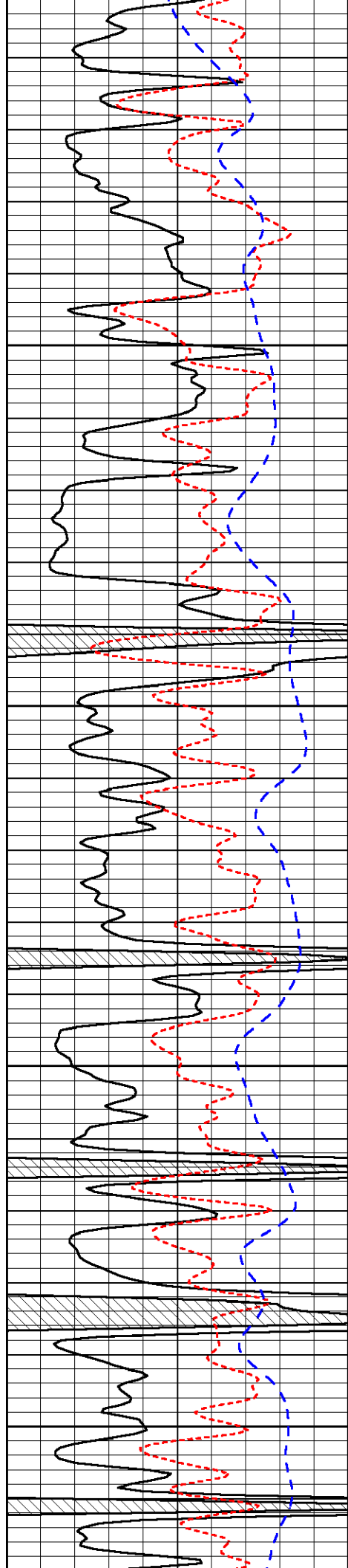
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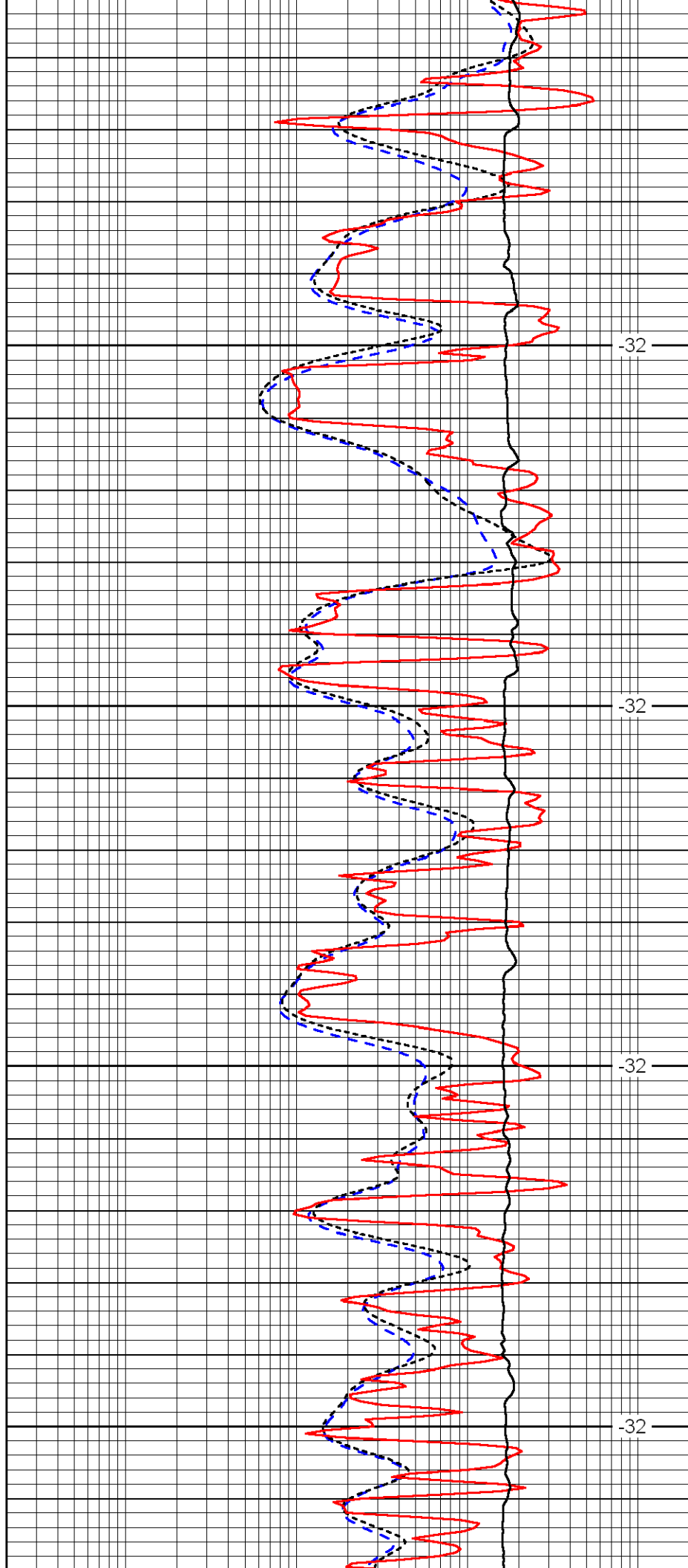


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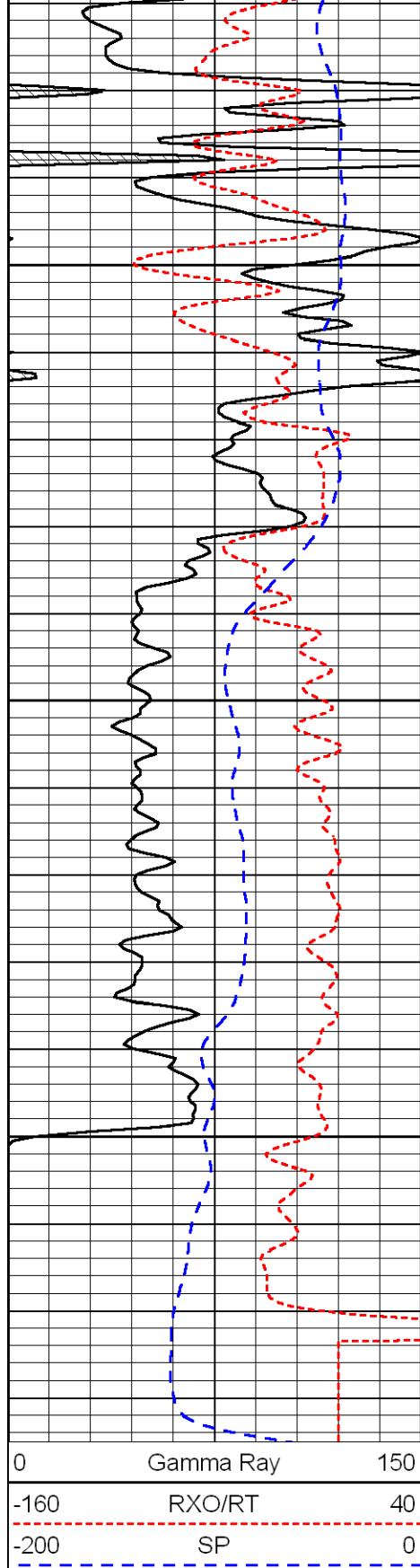


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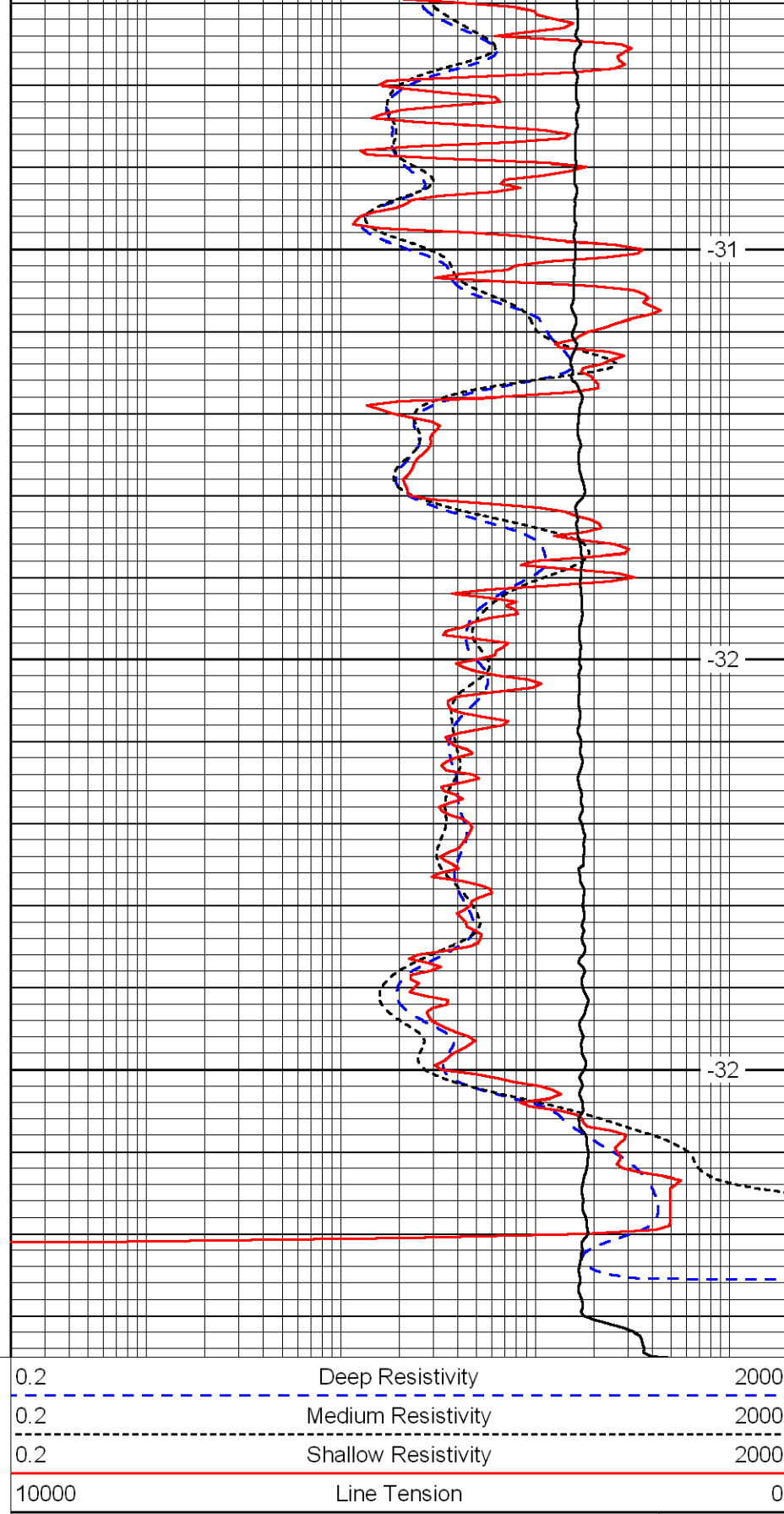
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4650



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-32

-32

LSPD