



Pioneer Energy Services

Dual Induction Log

15-109-21,122-00-00

API No.

Company **G. L. Allison Oil Operations, Inc.**

Well **Younkin #21-TATE**

Field **Younkin West**

County **Logan** State

Kansas

Location **2310' FNL & 330' FWL**

Other Services
CNL/CDL
MEL

Sec: **21** Twp: **12 S** Rge: **32 W**

Permanent Datum **Ground Level** Elevation **3041**

Log Measured From **Kelly Bushing** **7** Ft. Above Perm. Datum

Elevation
K.B. 3048
D.F. 3041
G.L. 3041

Drilling Measured From **Kelly Bushing**

Date **9/09/2012**

Run Number **One**

Depth Driller **4740**

Depth Logger **4742**

Bottom Logged Interval **4741**

Top Log Interval **250**

Casing Driller **8.625 @ 267**

Casing Logger **262**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **2.600**

Density / Viscosity **9.3 57**

pH / Fluid Loss **8.5 10.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **.85 @ 65**

Rmf @ Meas. Temp **.64 @ 65**

Rmc @ Meas. Temp **1.15 @ 65**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.44 @ 125**

Operating Rig Time **4 1/2 Hours**

Max Rec. Temp. F **125**

Equipment Number **91**

Location **Hays**

Recorded By **K. Bange**

Witnessed By **Greg Allison**

Recorded By **Kevin Bailey**

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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
www.pioneerenergy.com
 785 625 3858
 Oakley, 8 S to Ute rd,
 1 W, 1/2 N,
 3/4 W, N into

Database File: c:\warrior\data\g. l. allison_youkin #21-tate\glallison090912hd.db
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 Presentation Format: dil2in
 Dataset Creation: Sun Sep 09 11:07:44 2012
 Charted by: Depth in Feet scaled 1:600

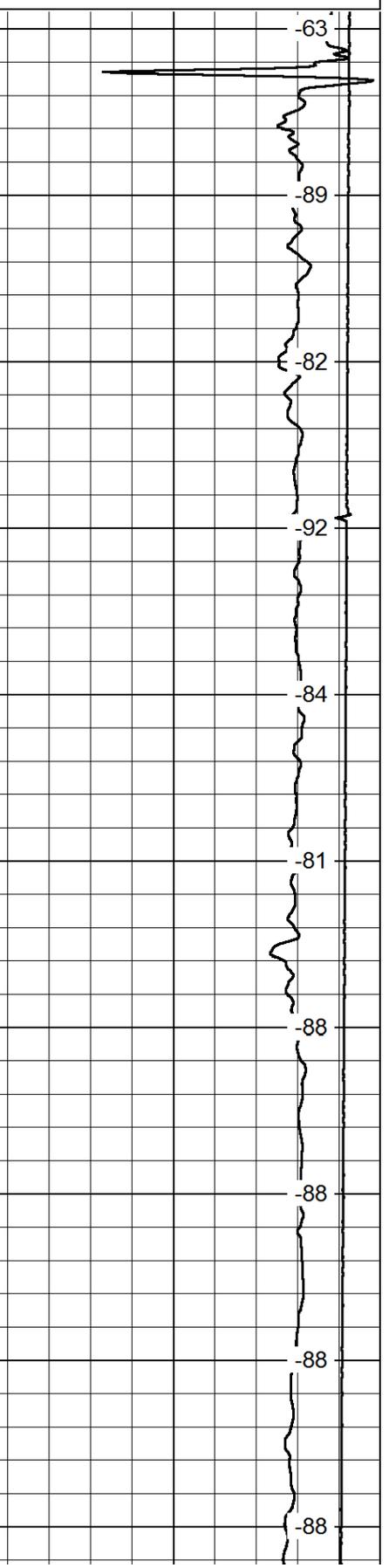
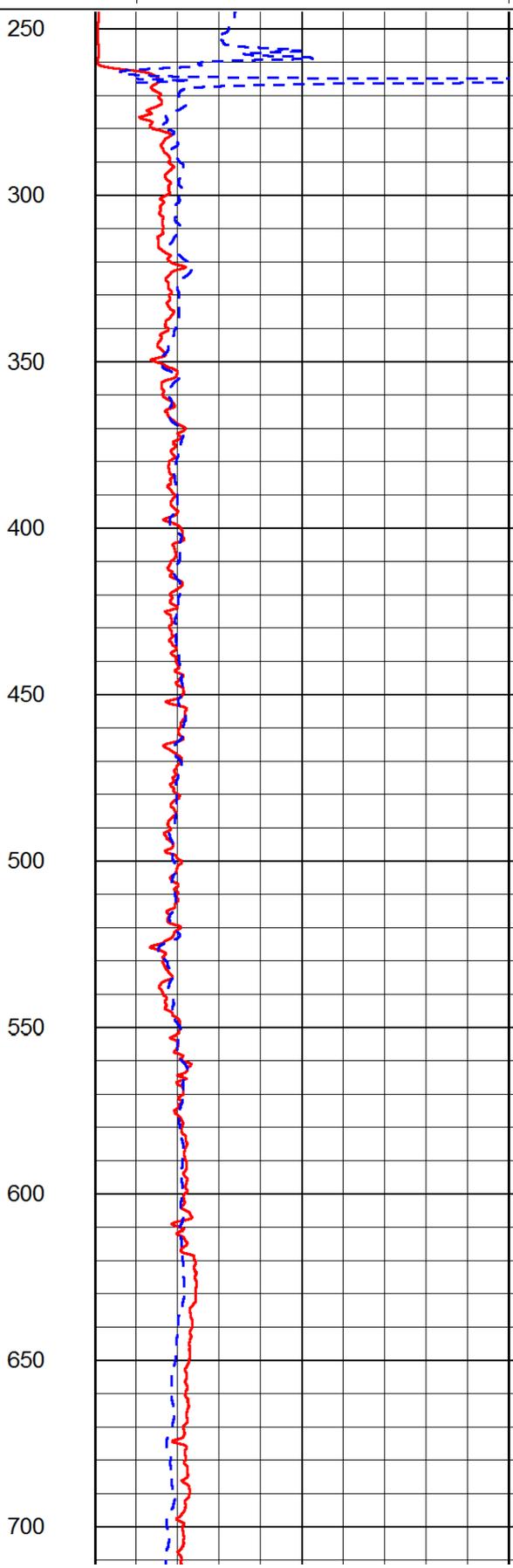
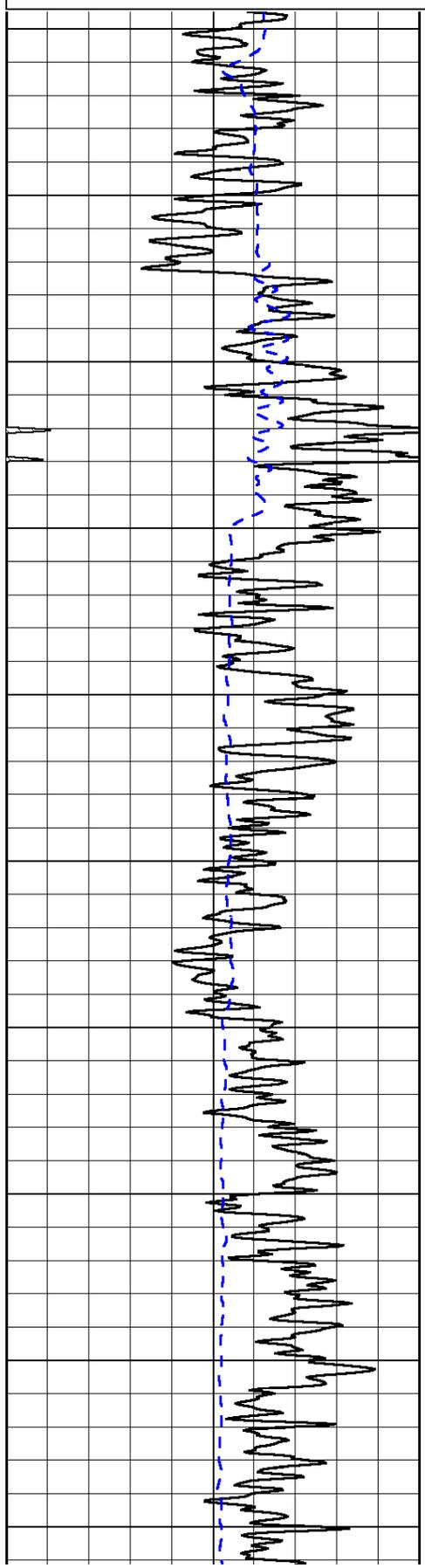
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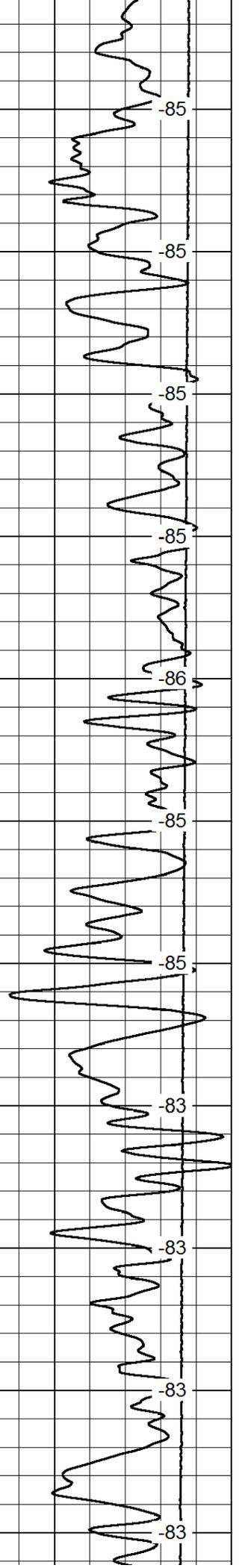
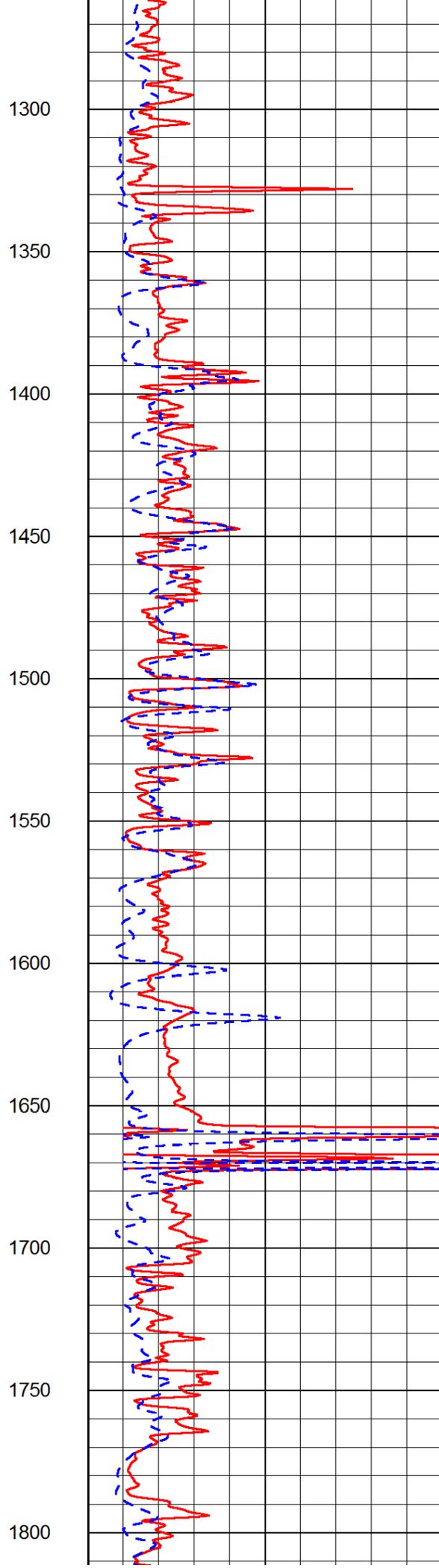
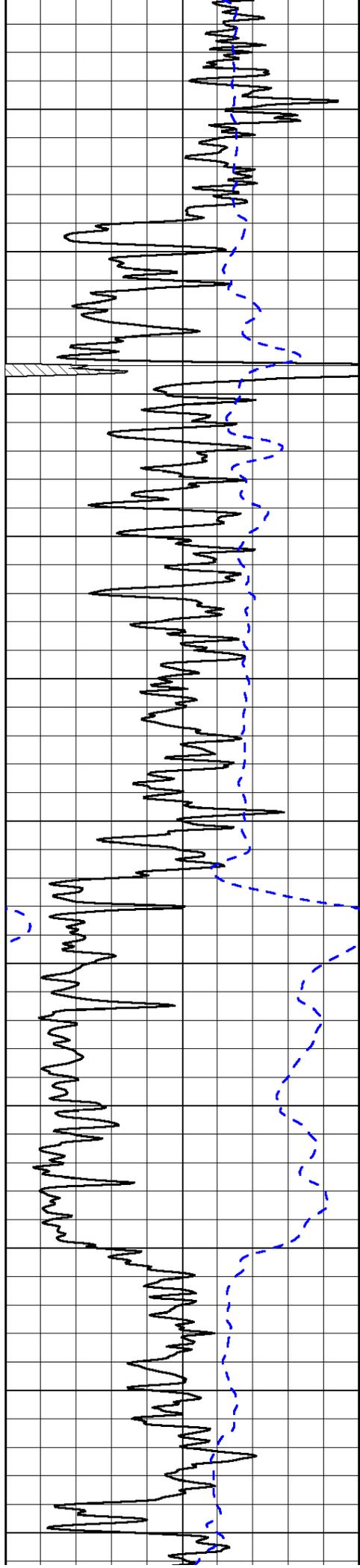
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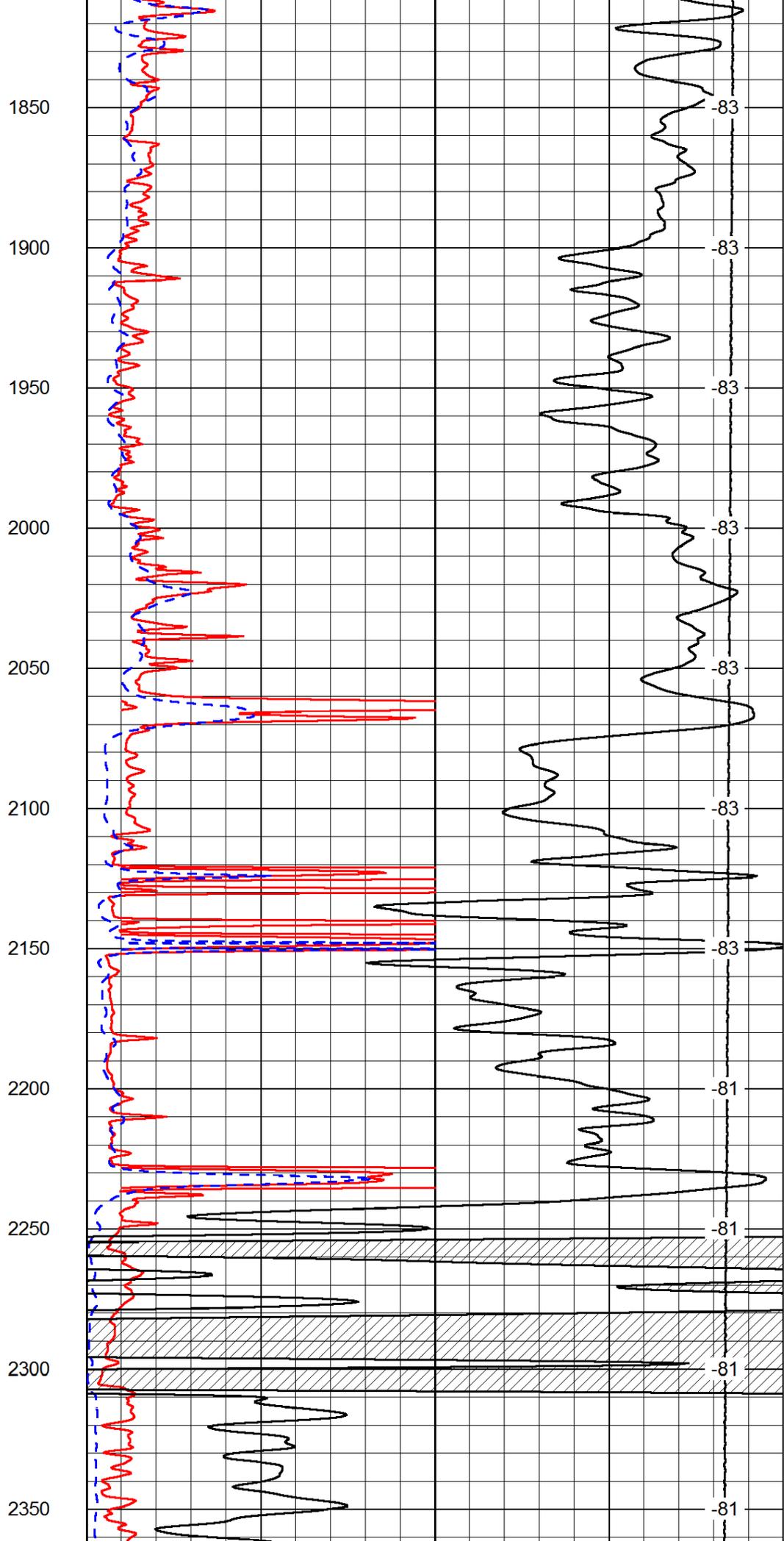
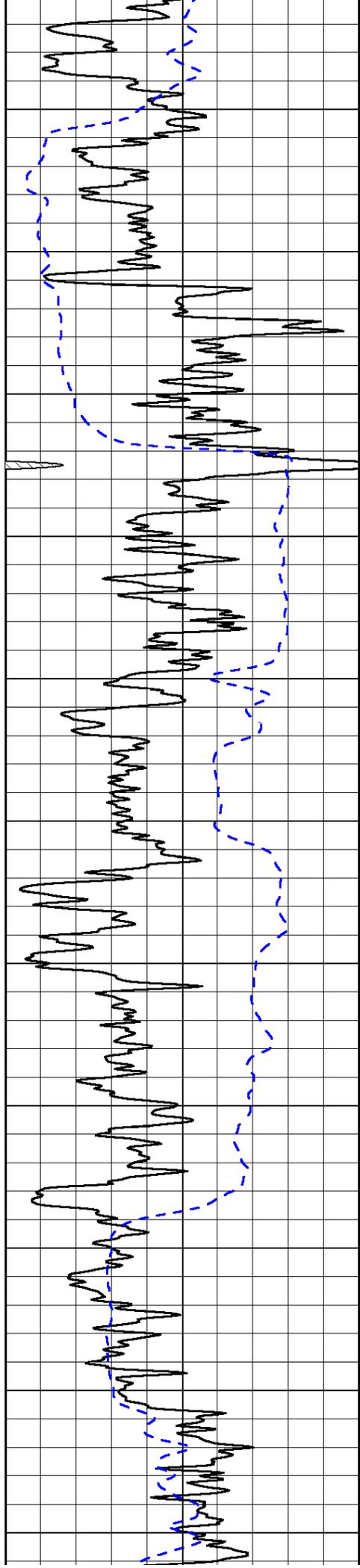
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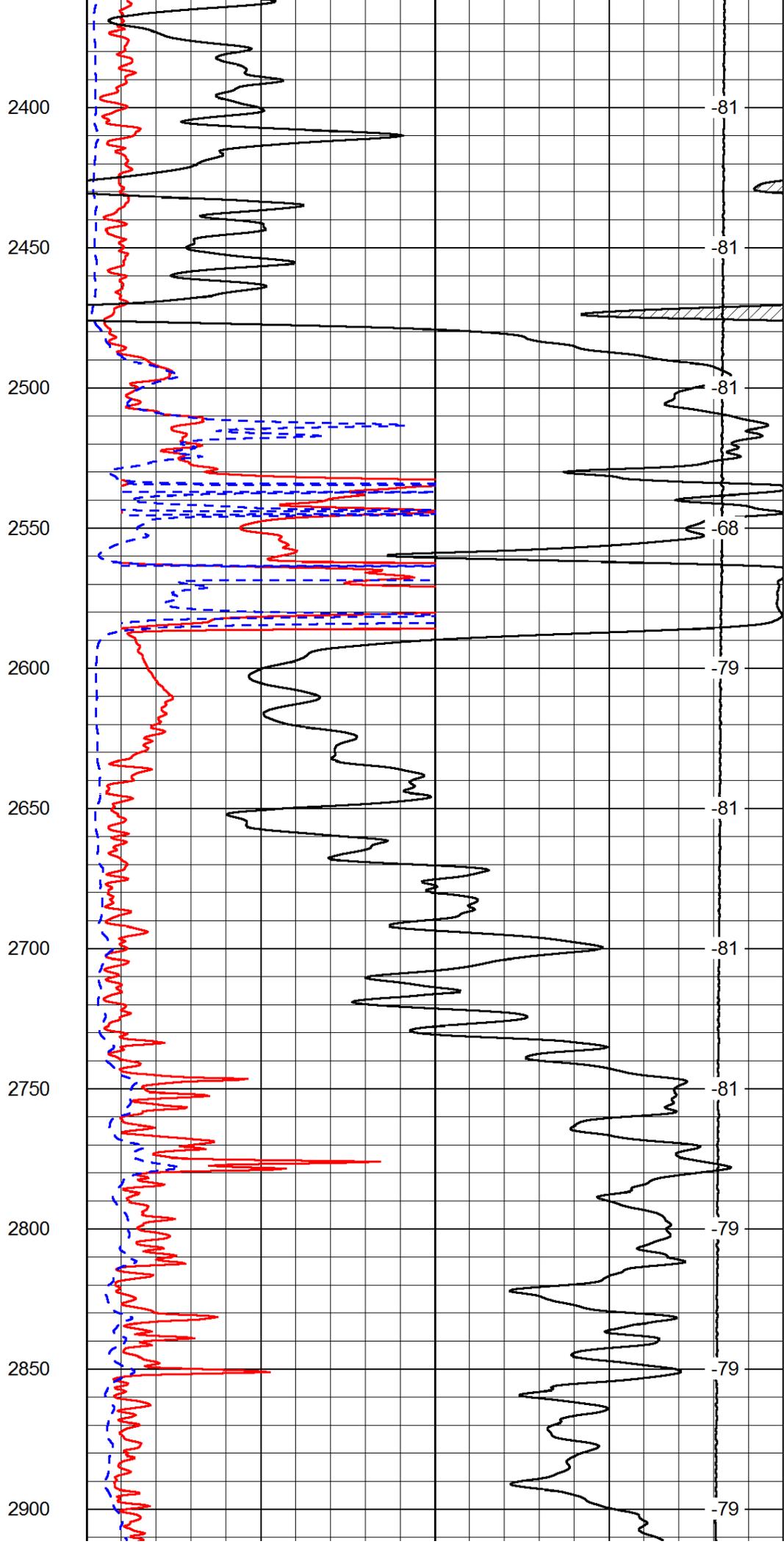
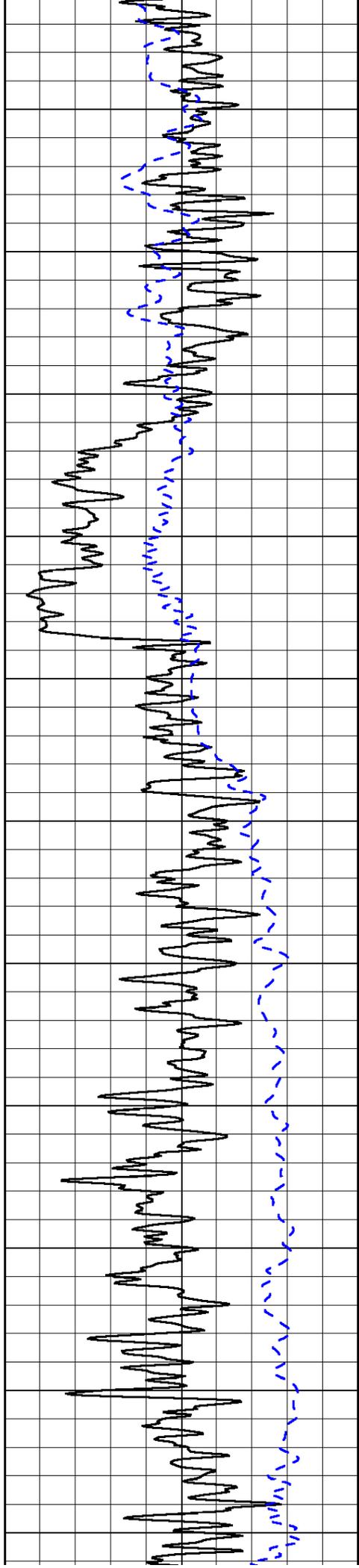
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15000	Line Tension	0

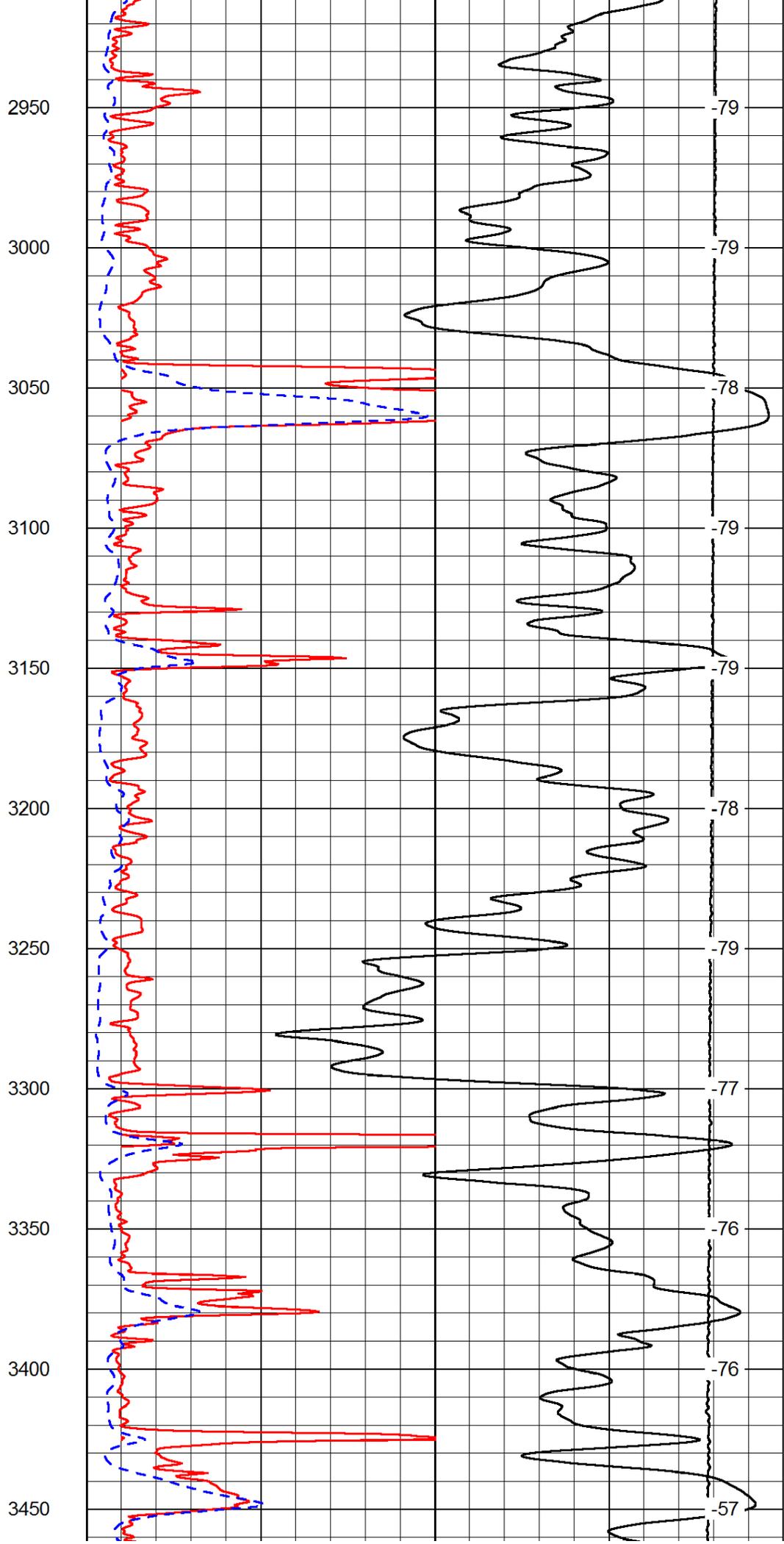
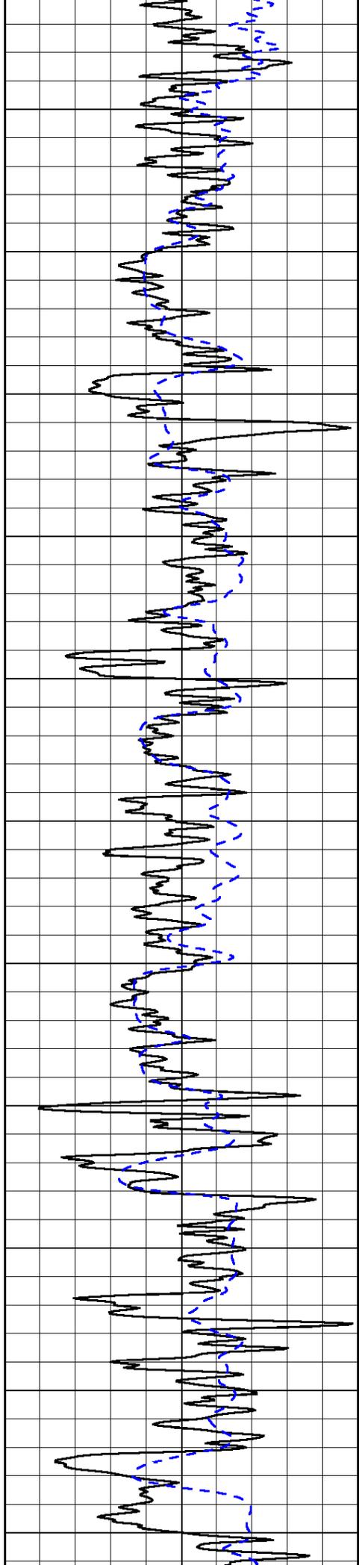
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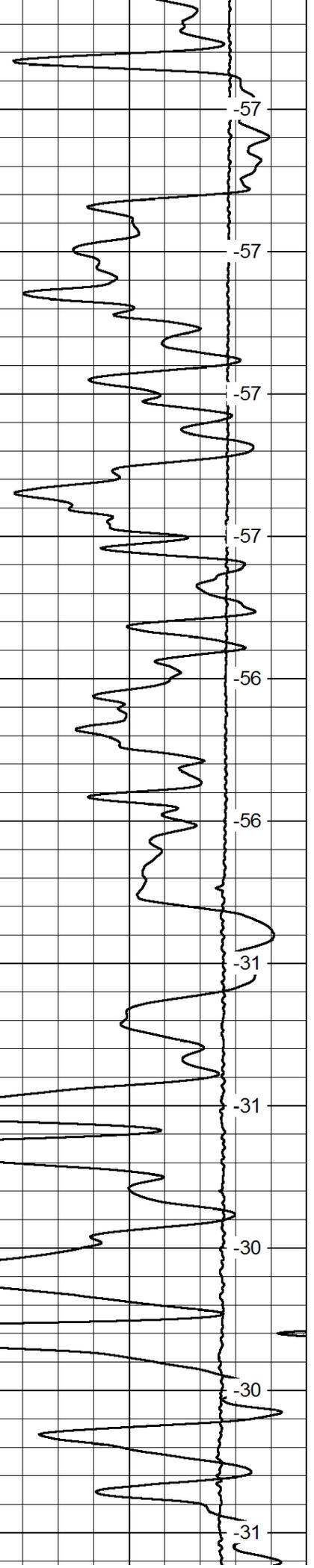
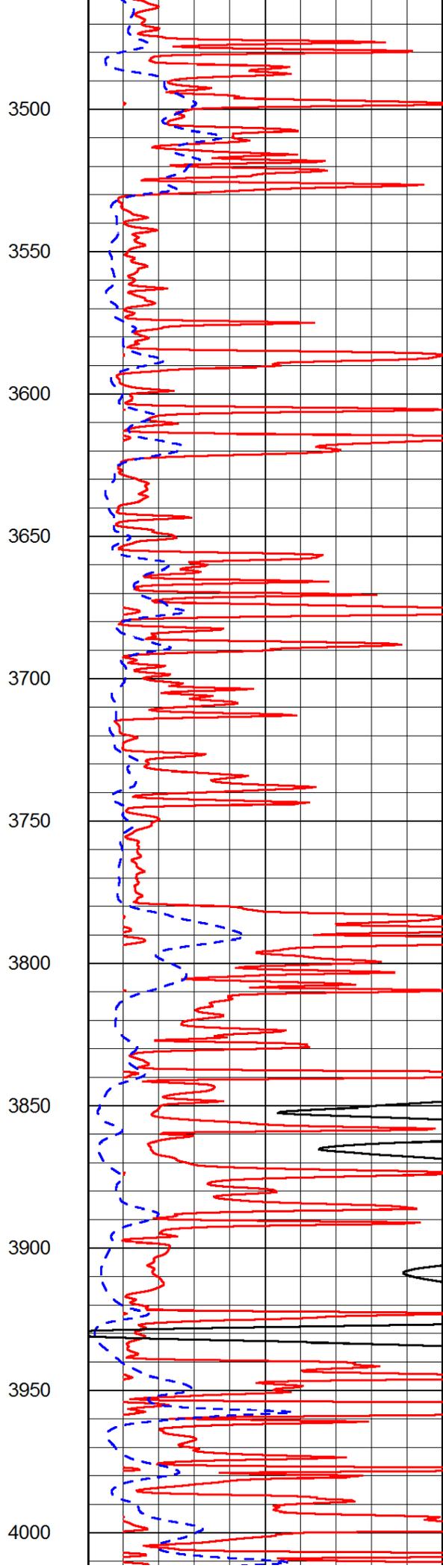
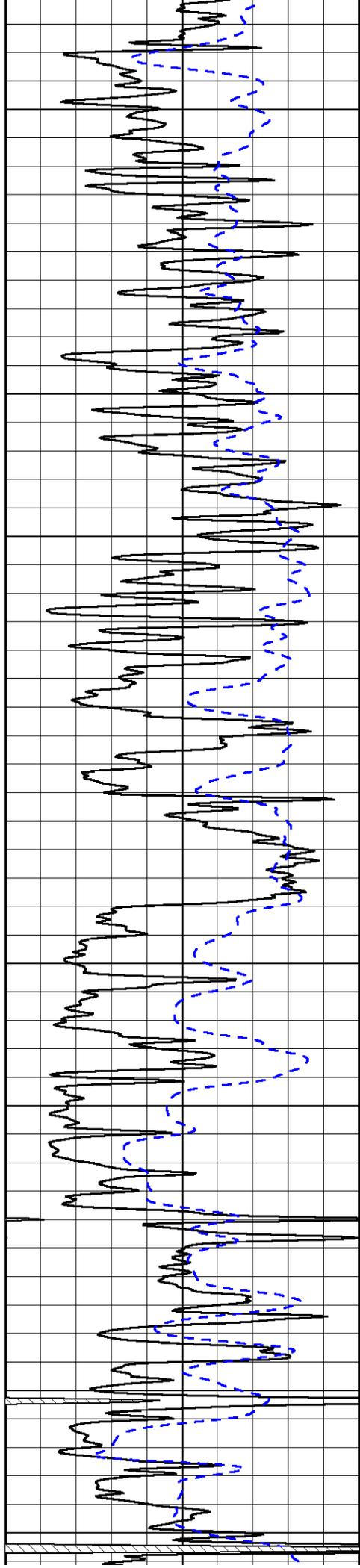


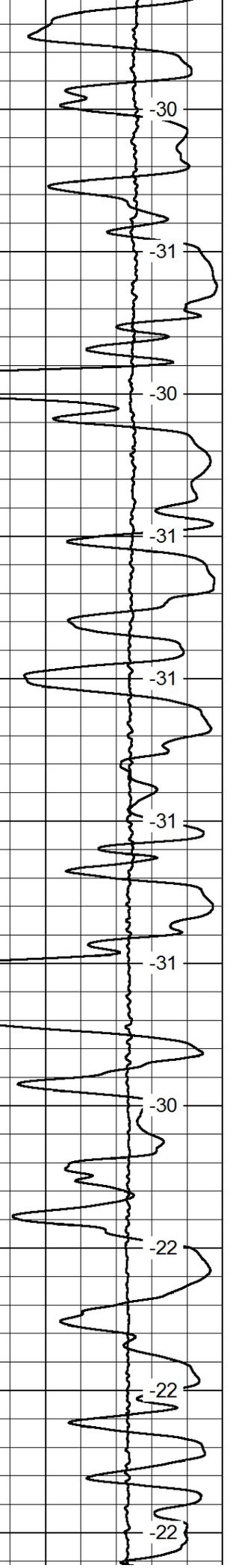
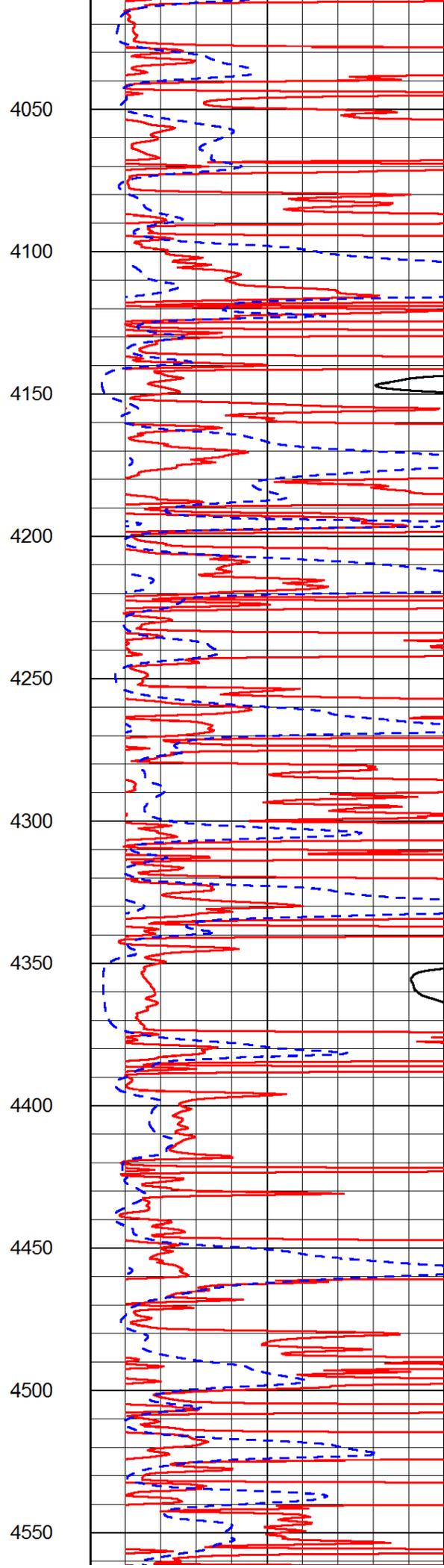
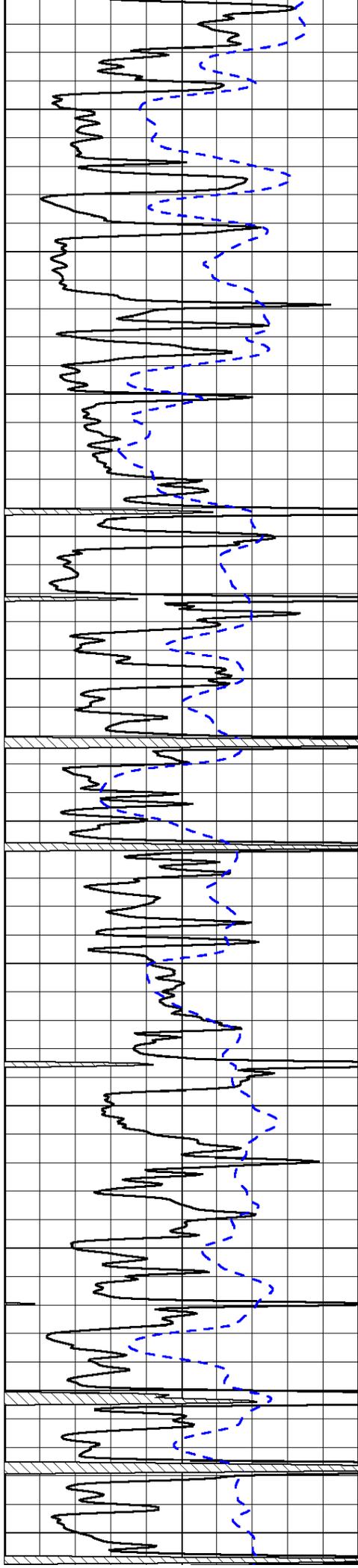


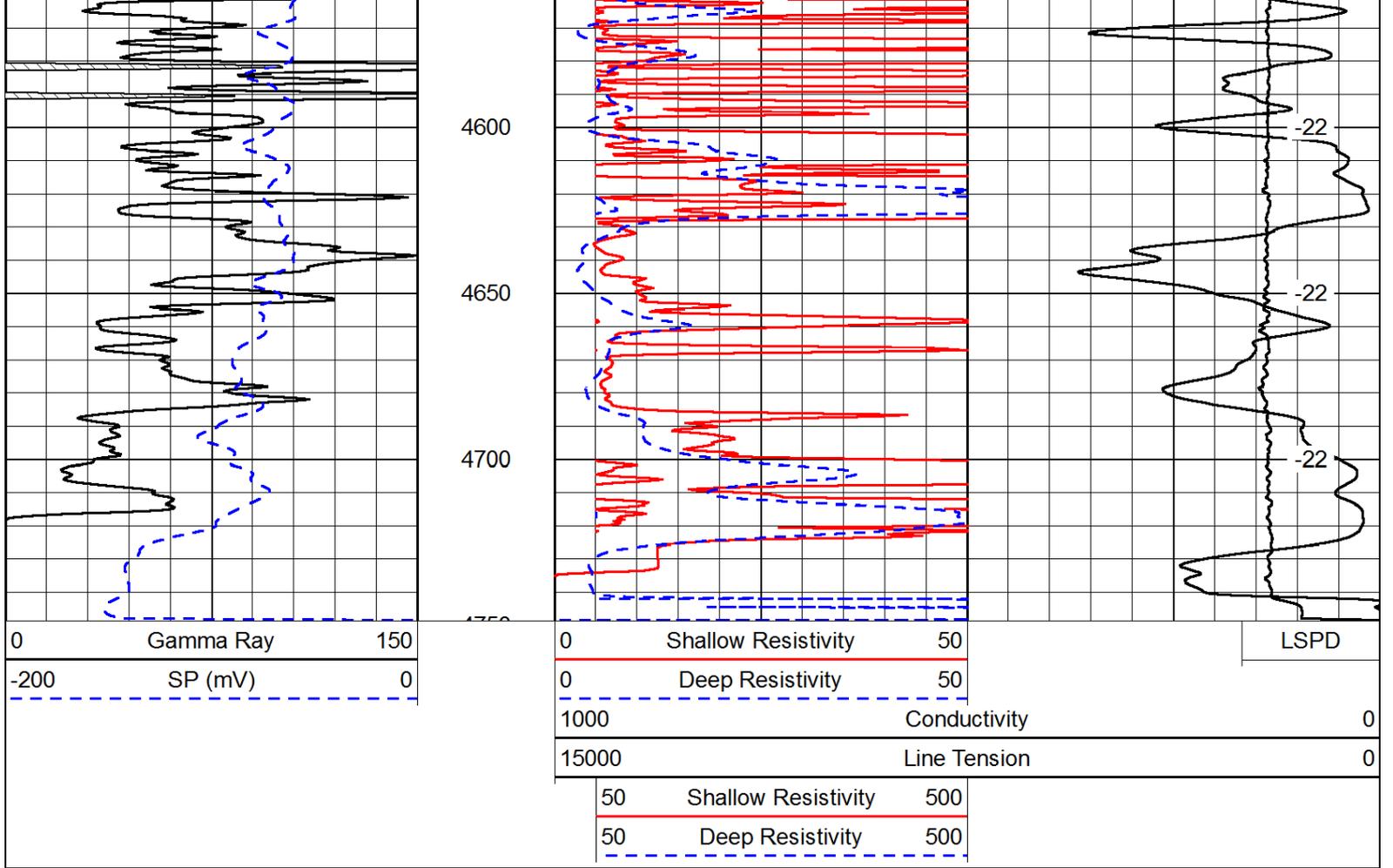




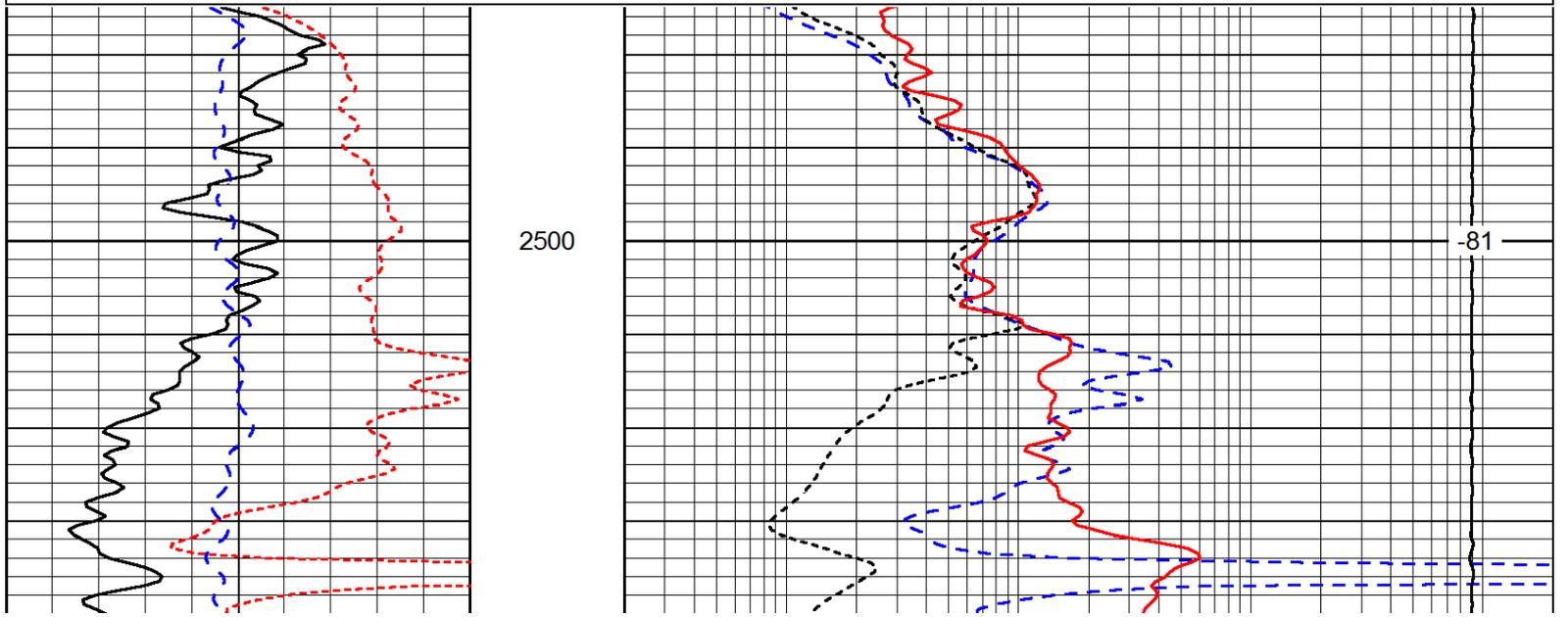
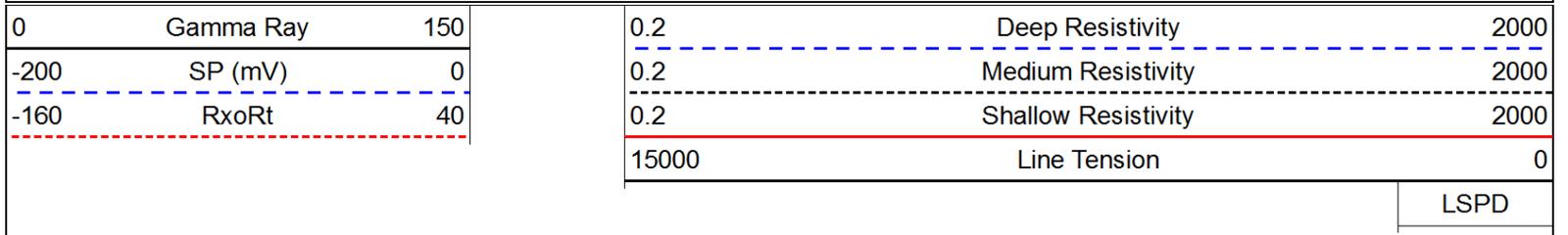


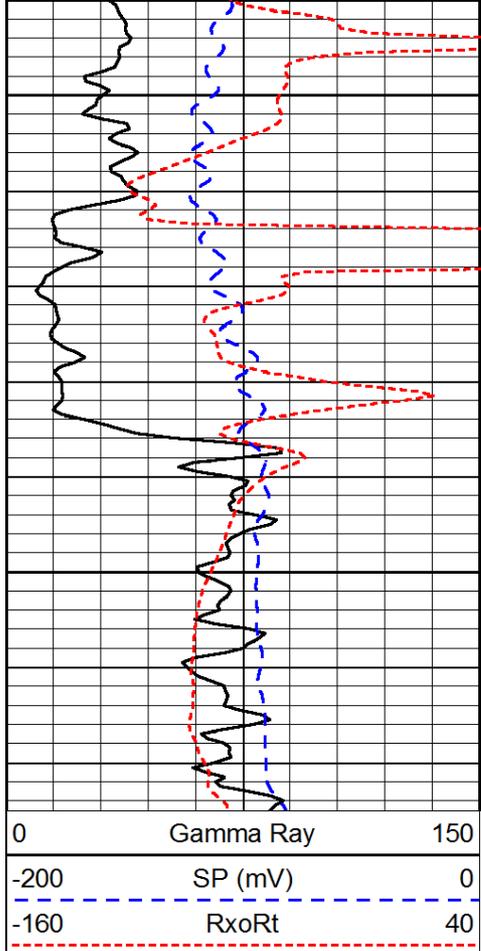






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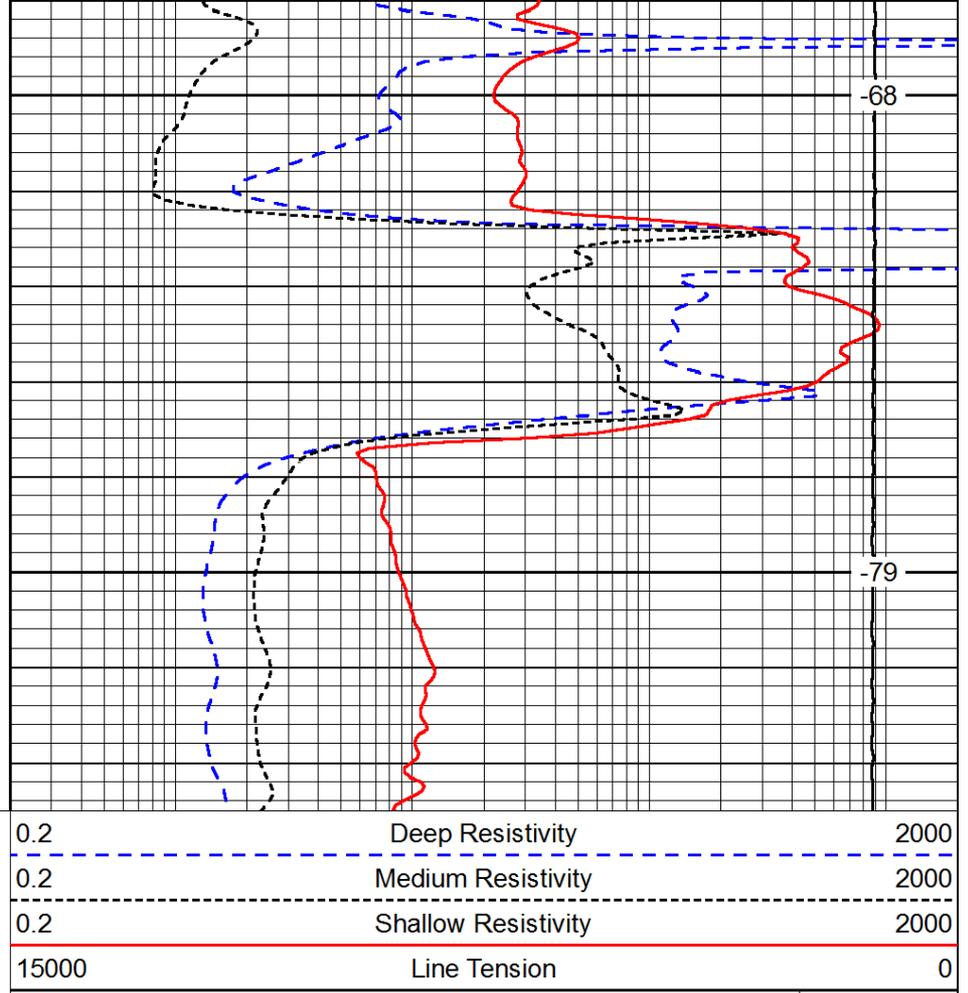




2550

2600

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



-68

-79

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

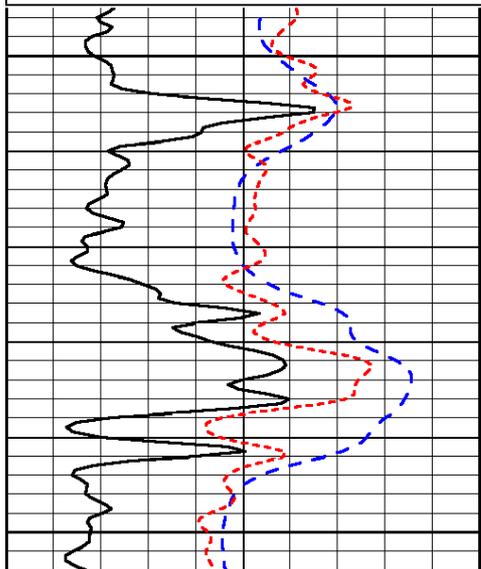
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-200	SP (mV)	0
-160	RxoRt	40

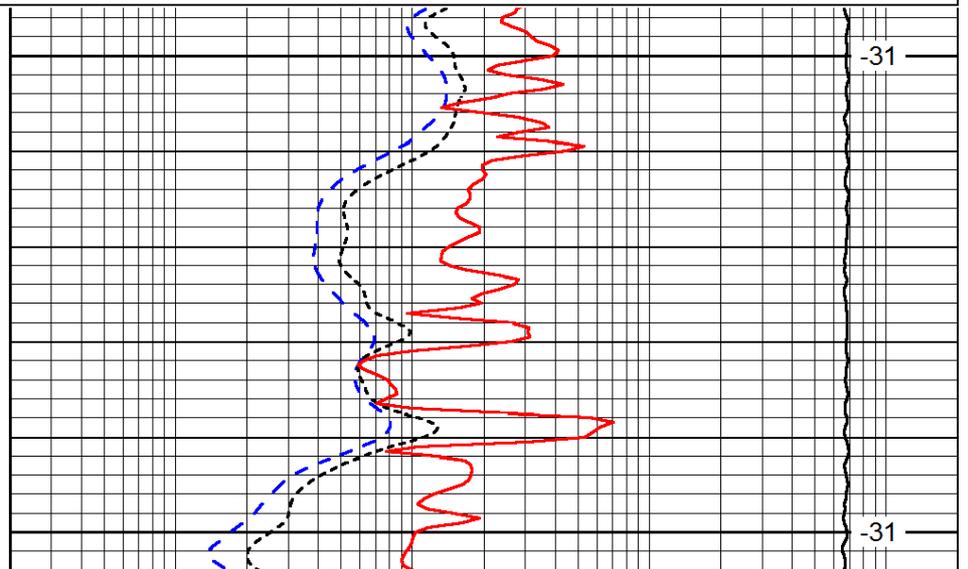
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15000	Line Tension	0

LSPD



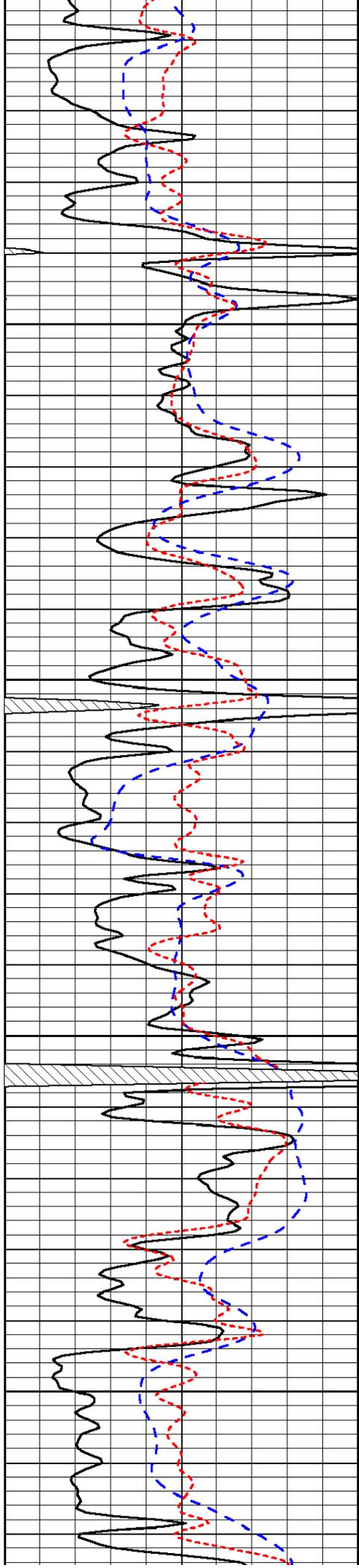
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3850



-31

-31

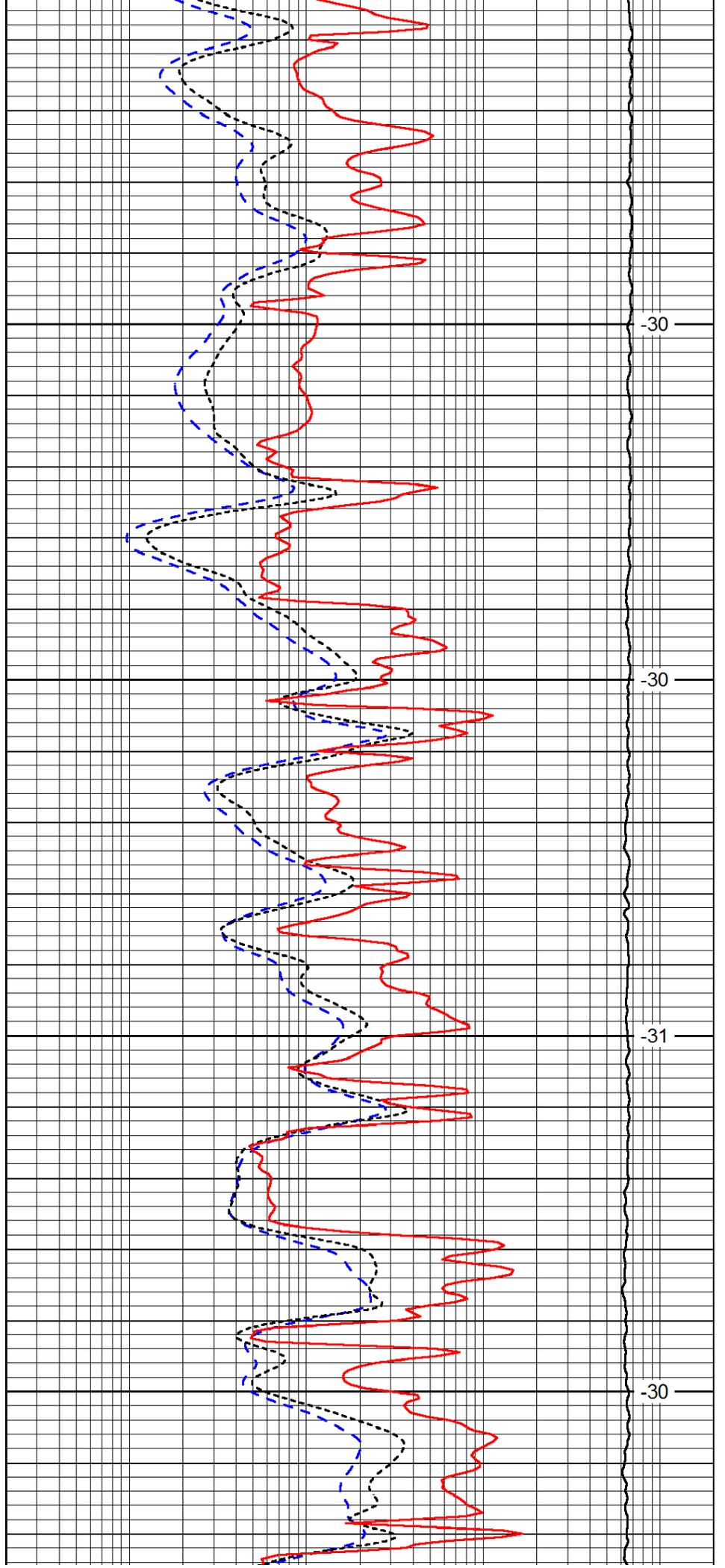


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3950

4000

4050

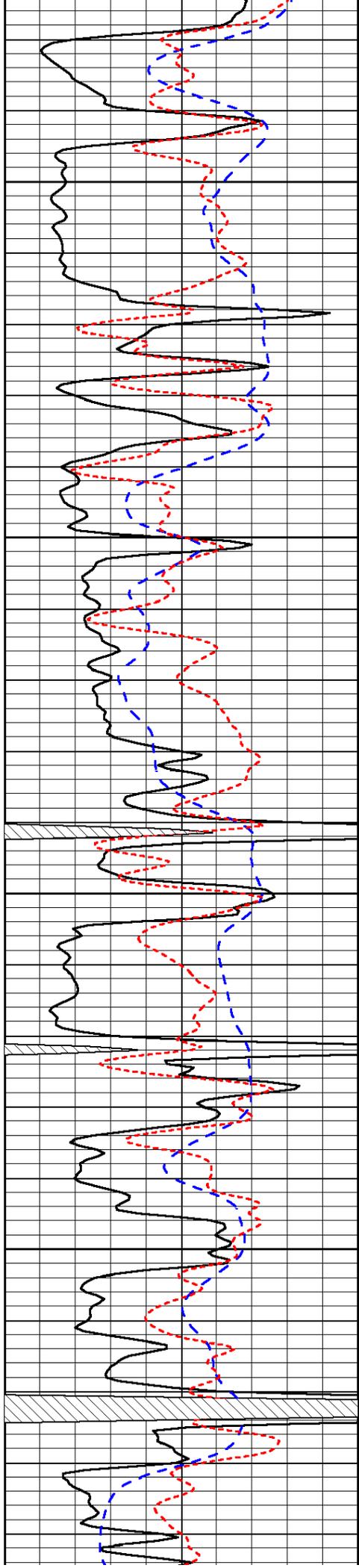


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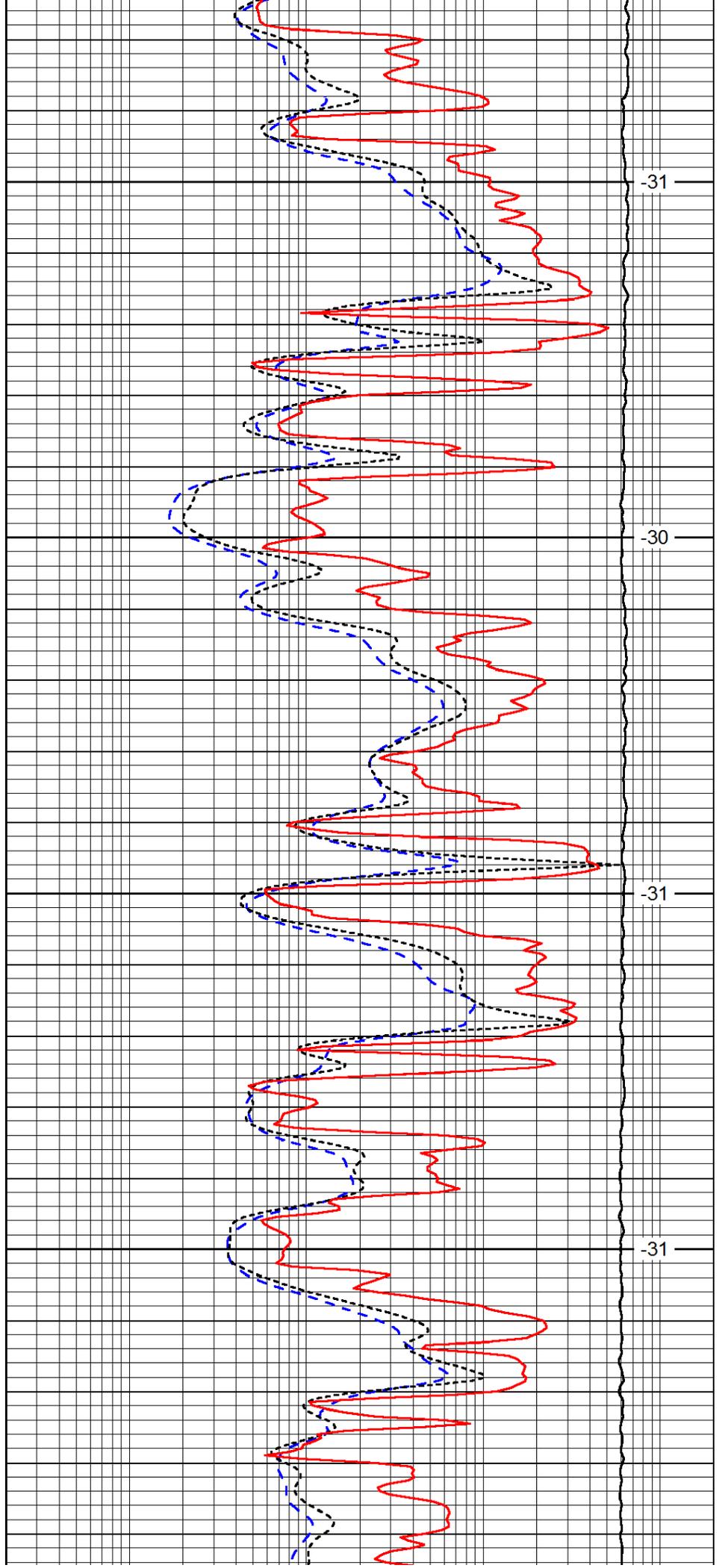


4100

4150

4200

4250

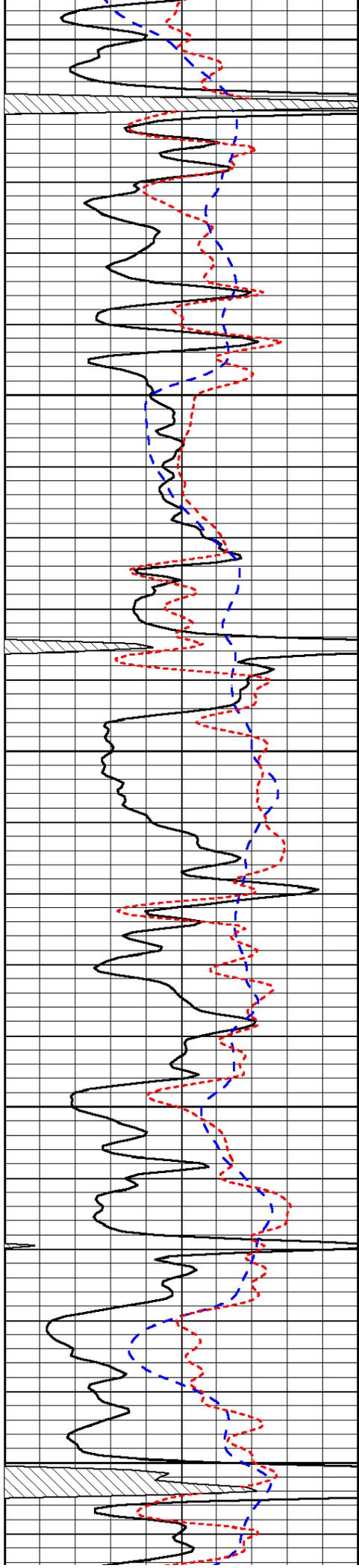


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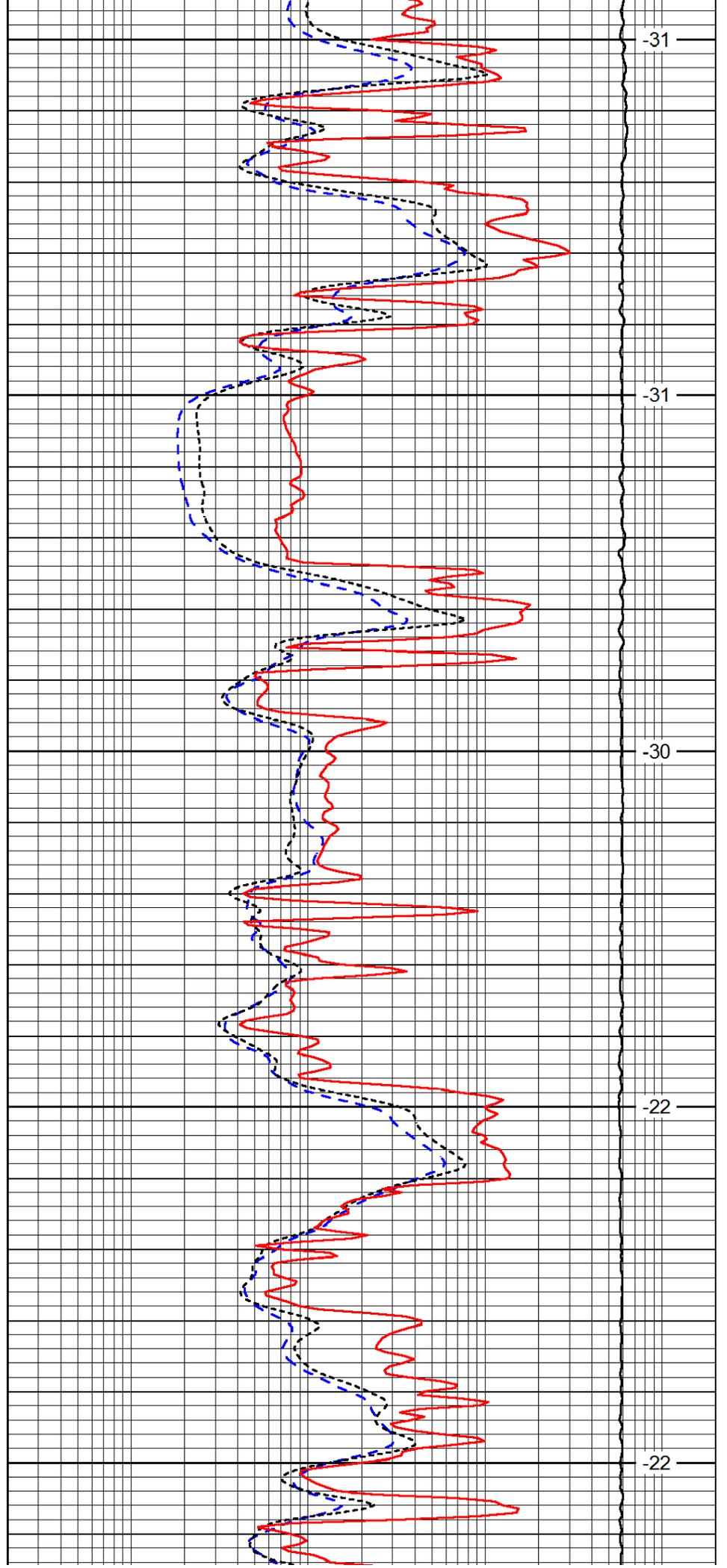
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4350

4400

4450

4500



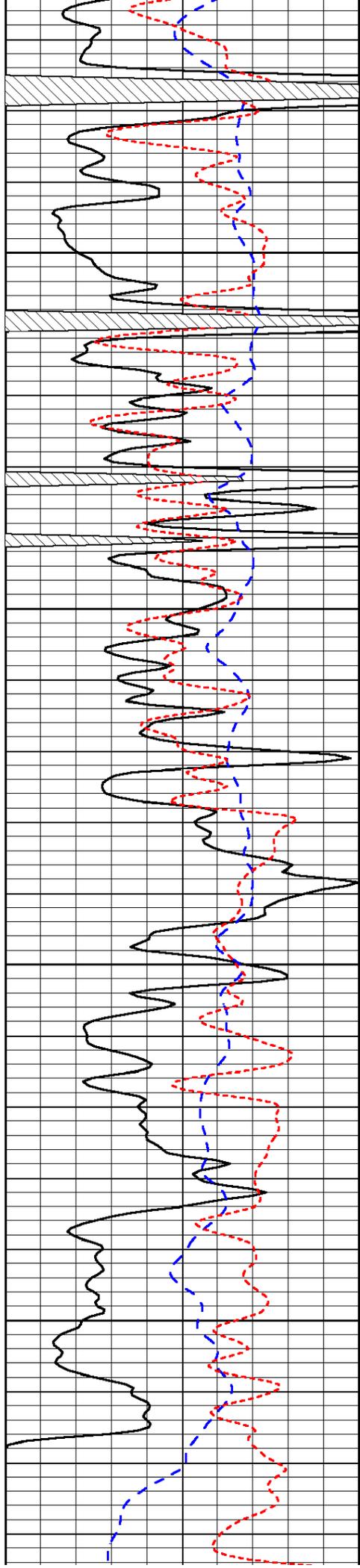
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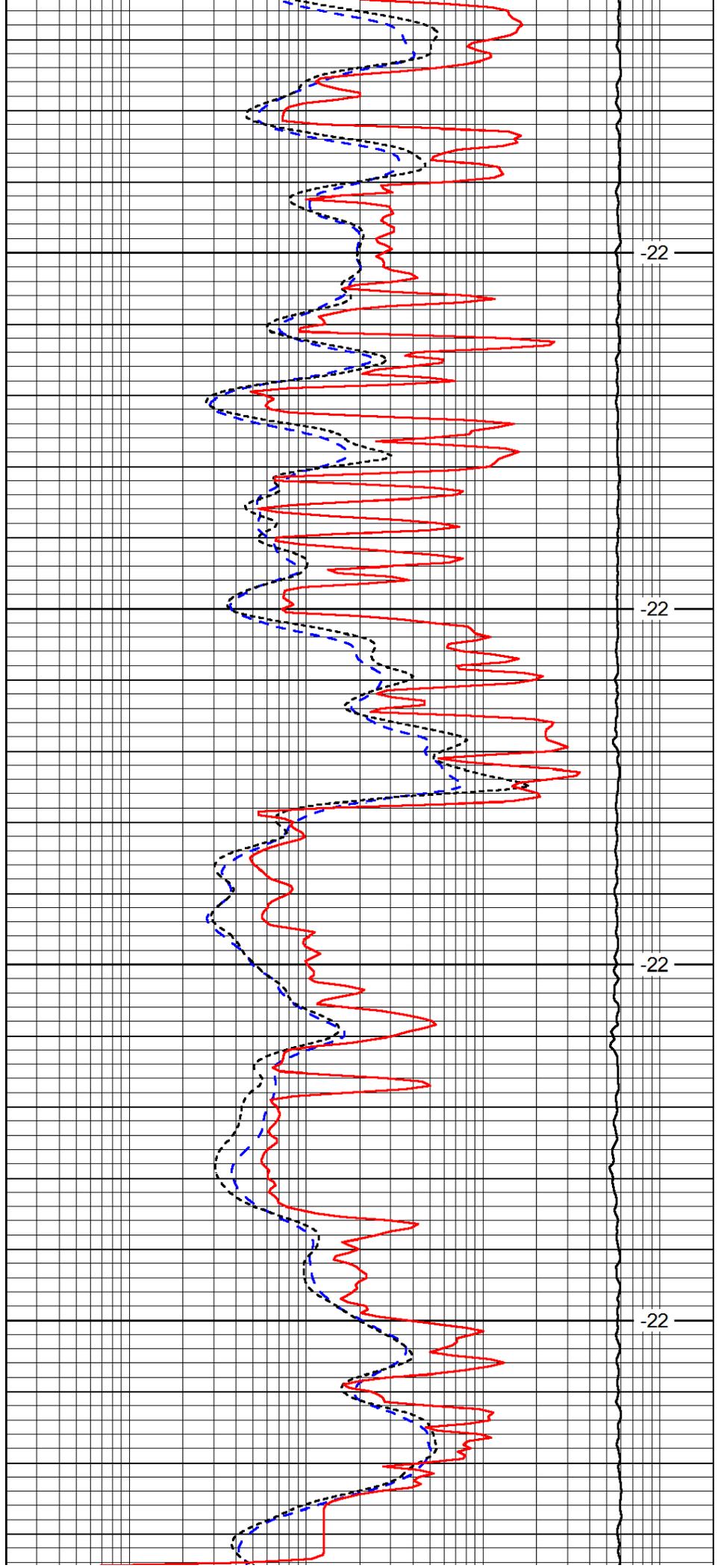


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4600

4650

4700

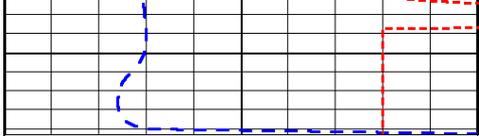


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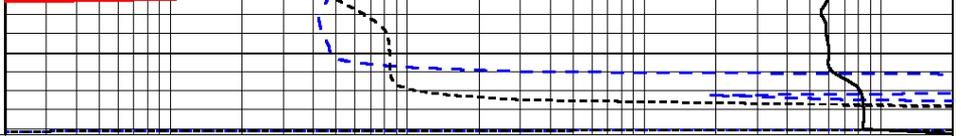
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-22

-22



0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD