



Pioneer Energy Services

Dual Induction Log

15-007-21,257-00-01

API No.

Company N-10 Exploration, LLC.

Well Medicine River Ranch SWD "B" No. 2

Field Landis

County Barber State

Kansas

Location

NE SW SW
990' FSL & 990' FWL

Other Services
CNL/CDL

Sec: 15 Twp: 34S Rge: 11W

Permanent Datum Ground Level Elevation 1330
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 1340
D.F. 1330
G.L. 1330

Date 11/12/2012

Run Number One

Depth Driller 5293

Depth Logger 5295

Bottom Logged Interval 5294

Top Log Interval 300

Casing Driller 8.625 @ 319

Casing Logger 322

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 16,000

Density / Viscosity 9.3 50

pH / Fluid Loss 9.5 13.0

Source of Sample Flowline

Rm @ Meas. Temp .25 @ 64

Rmf @ Meas. Temp .19 @ 64

Rmc @ Meas. Temp .34 @ 64

Source of Rmf / Rmc Charts

Rm @ BHT .12 @ 129

Operating Rig Time 4 Hours

Max Rec. Temp. F 129

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Tim Pierce

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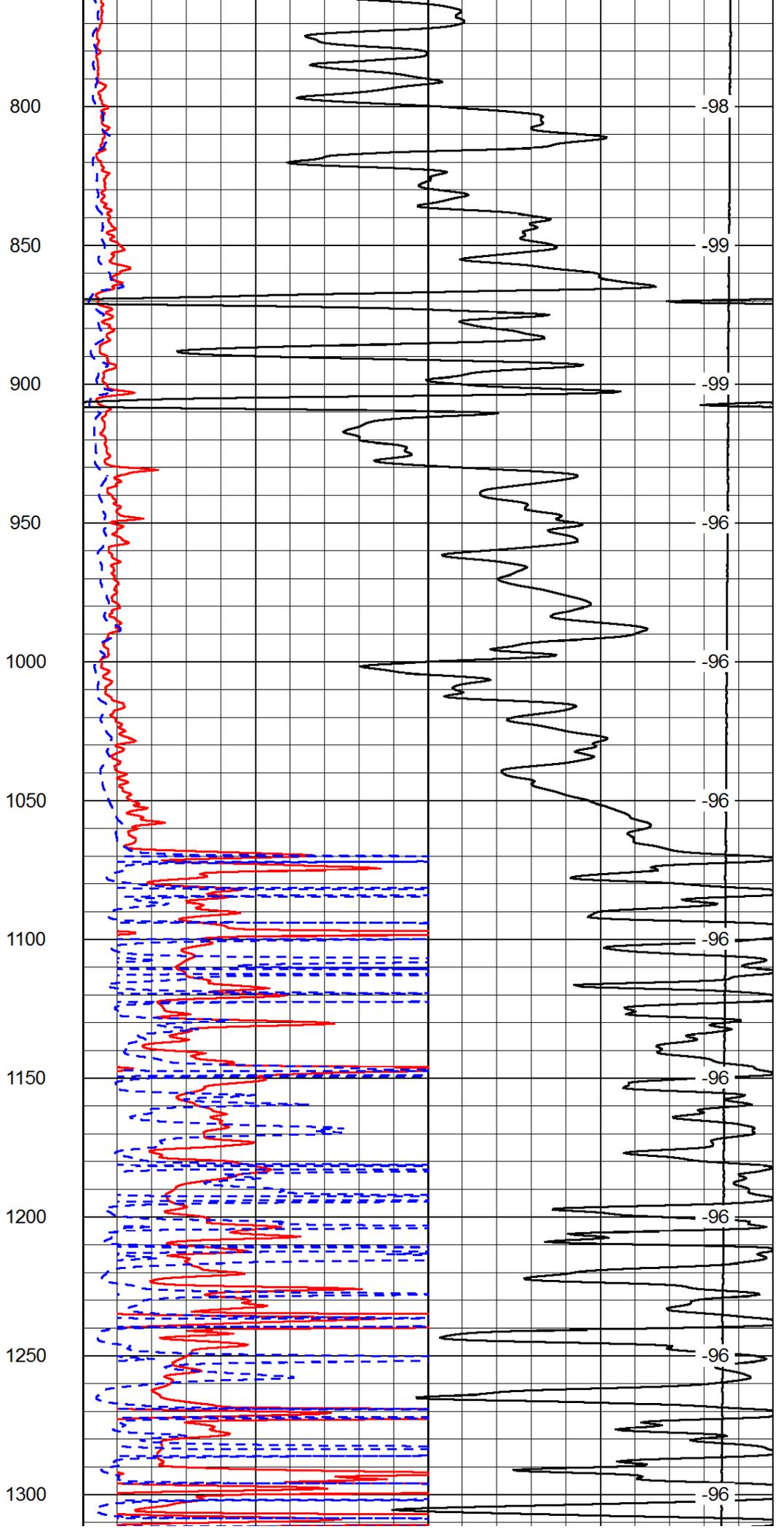
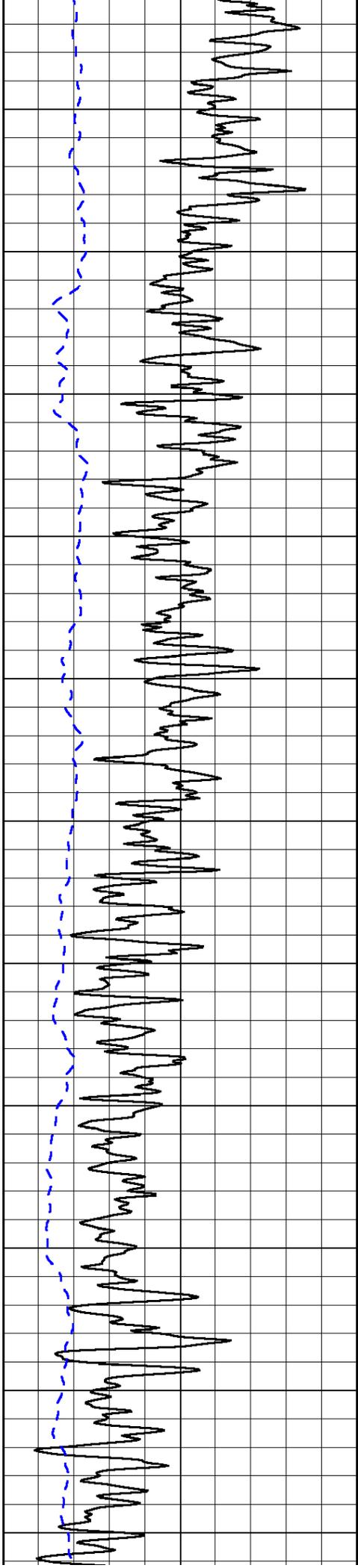
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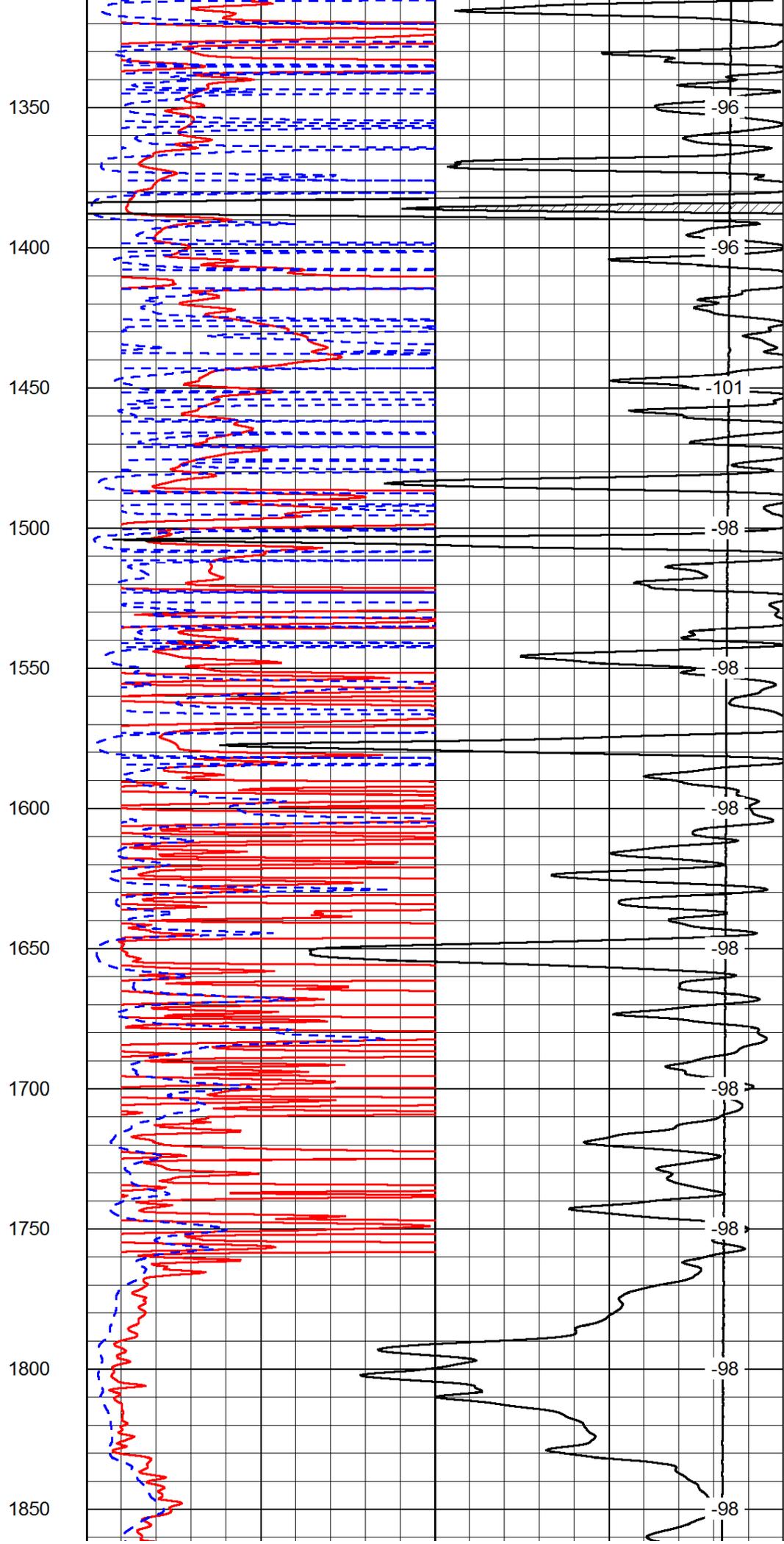
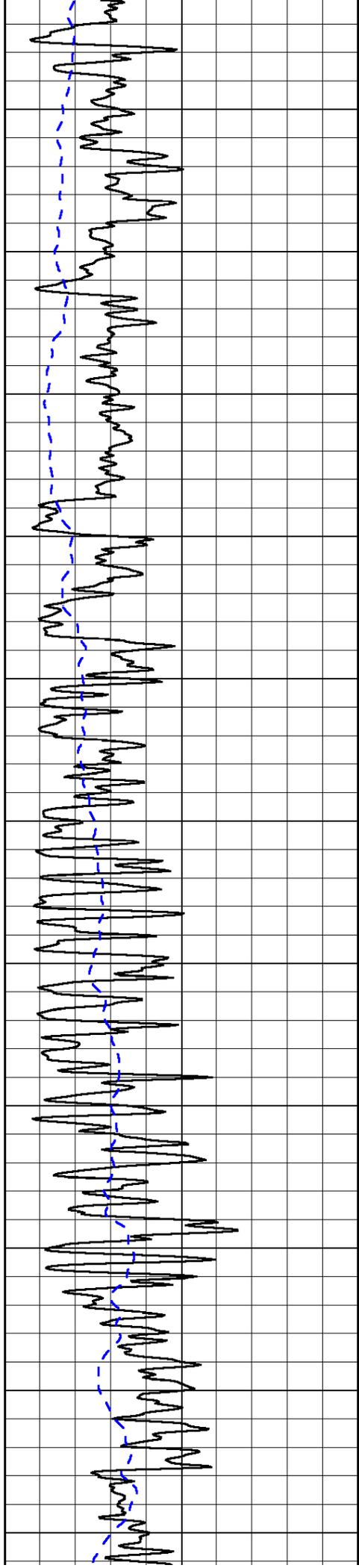
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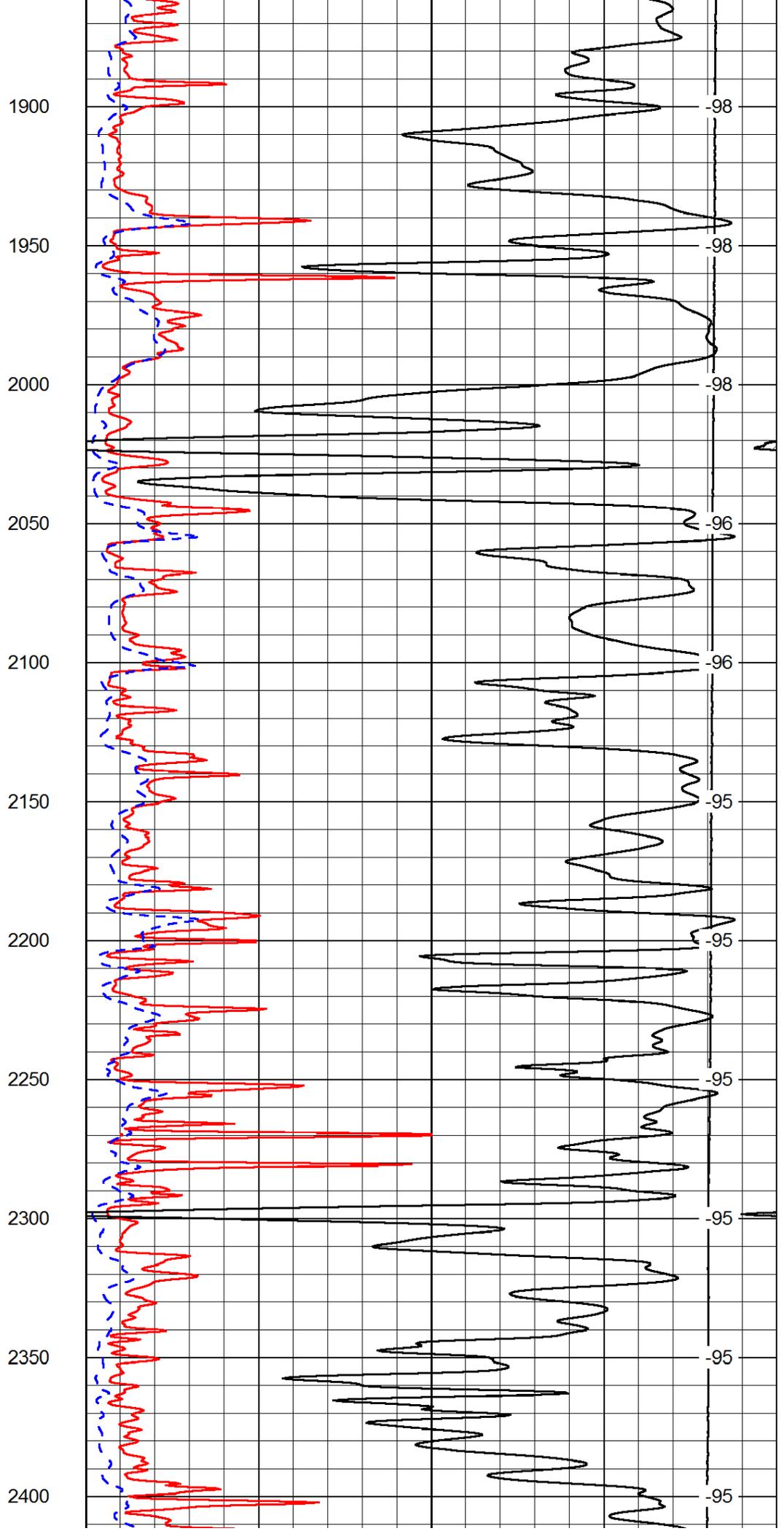
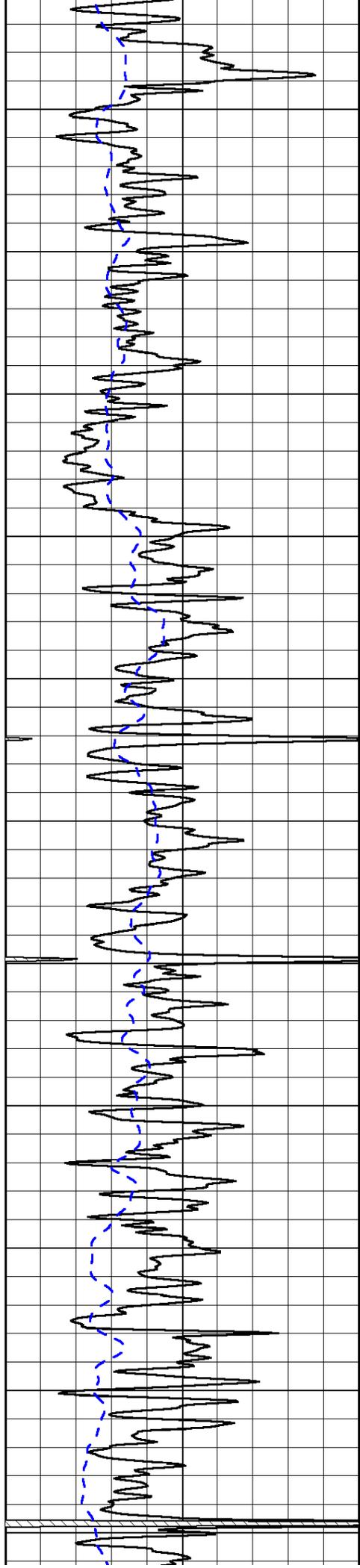
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785 625 3858

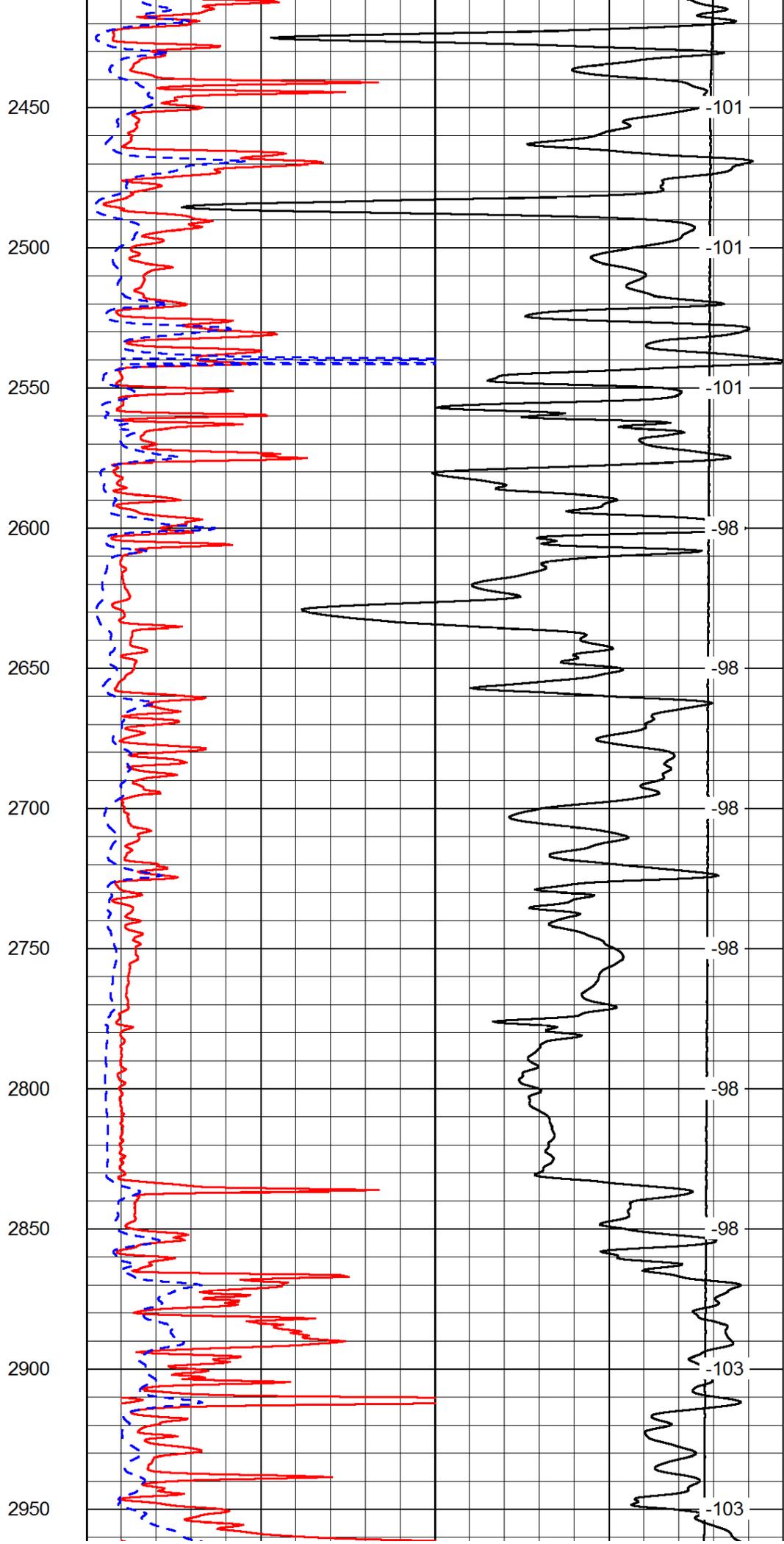
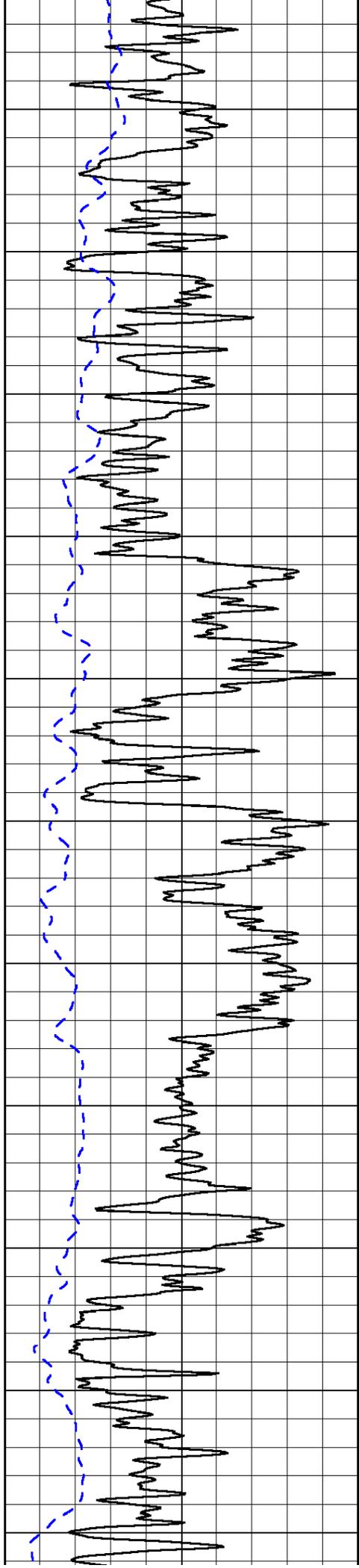
Medicine Lodge KS, South to Gerlane RD,
East to Bethel RD, 3 1/2 South to Angus RD,
1 1/4 West North Into, Cross 3 Cattle Guards

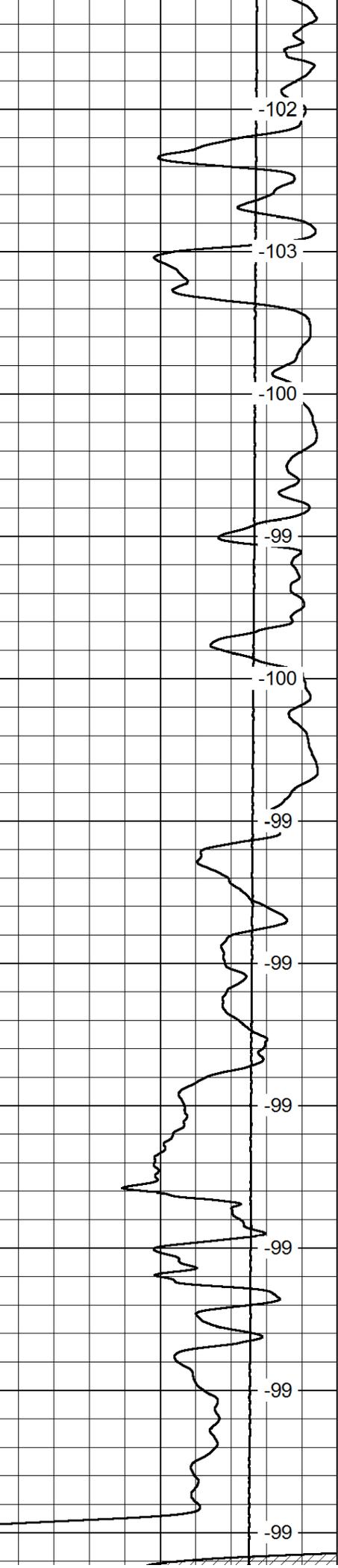
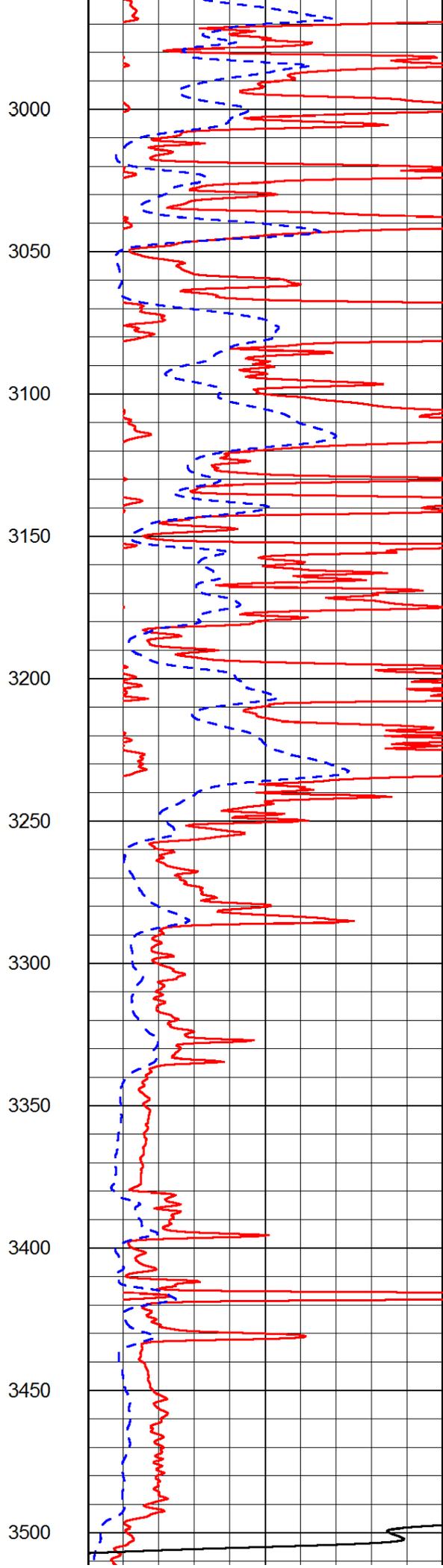
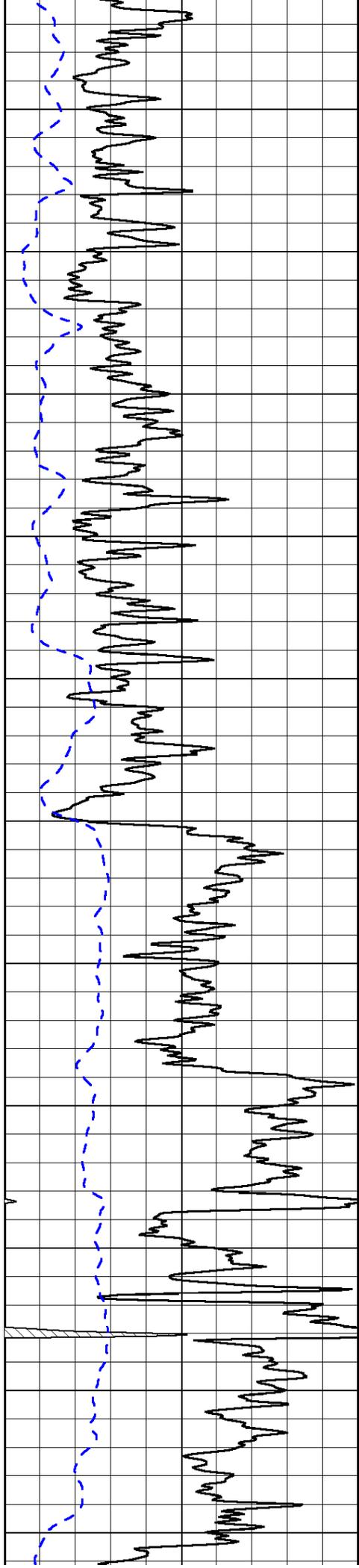
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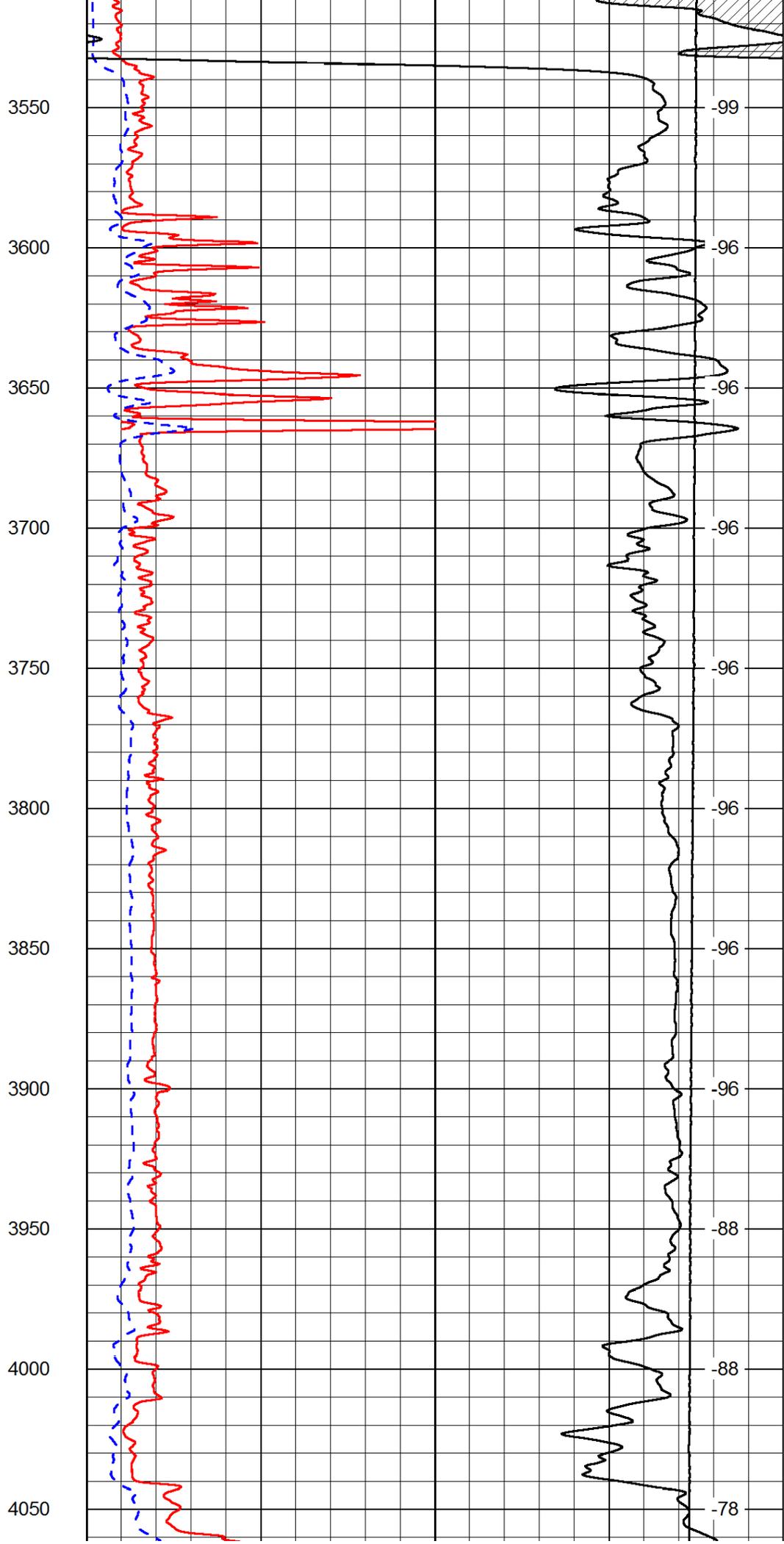
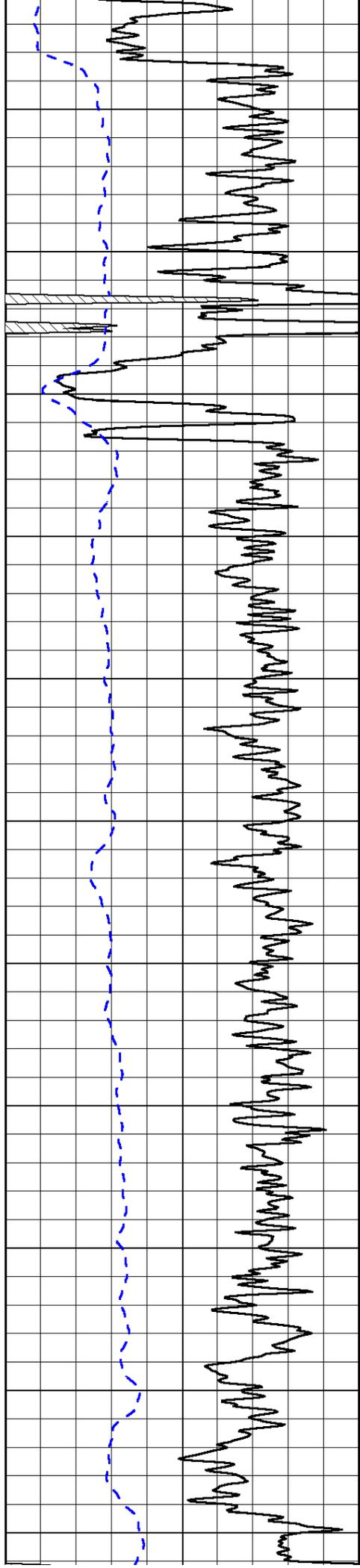


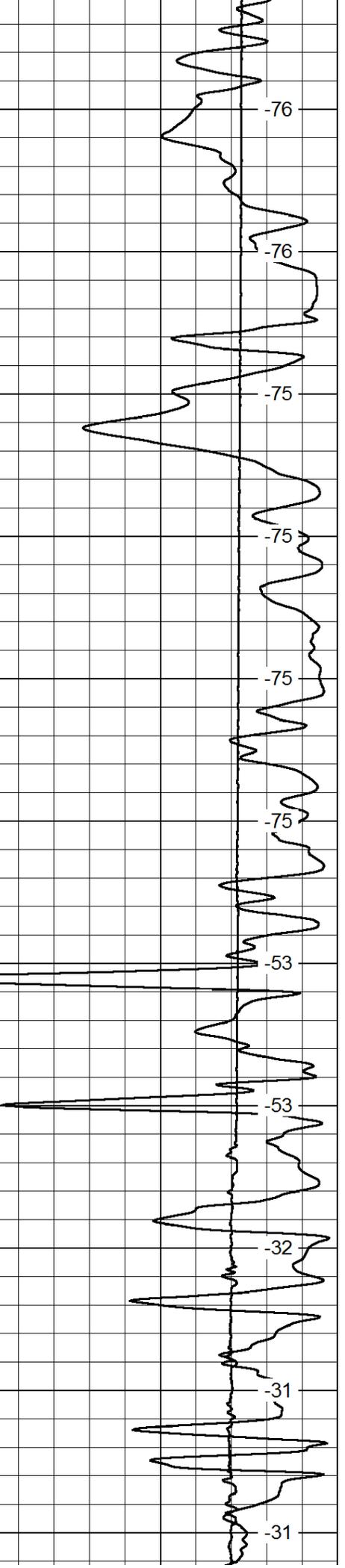
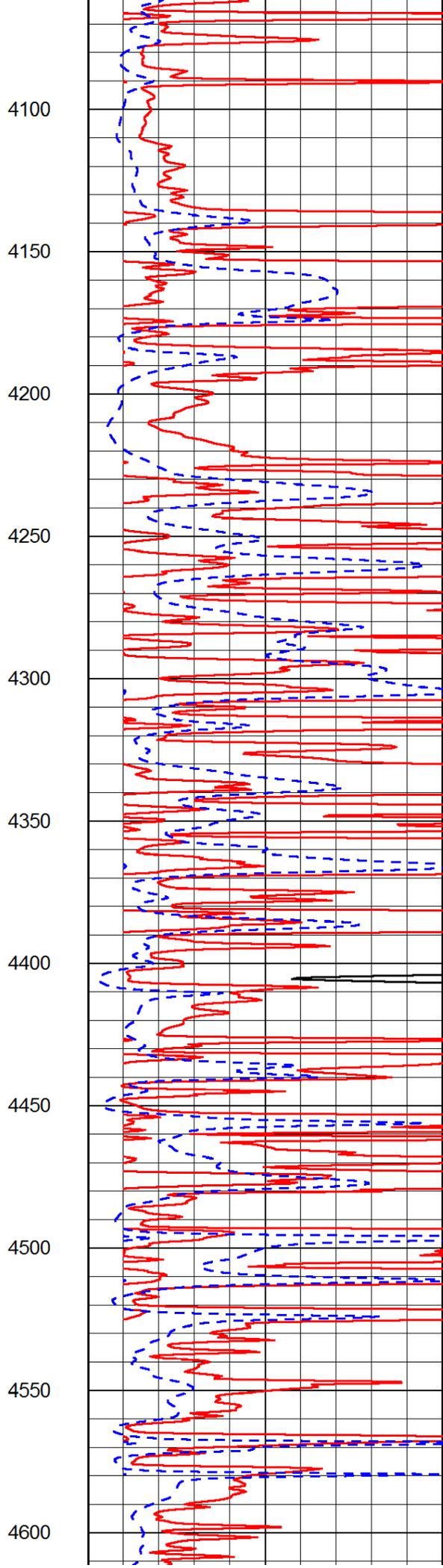
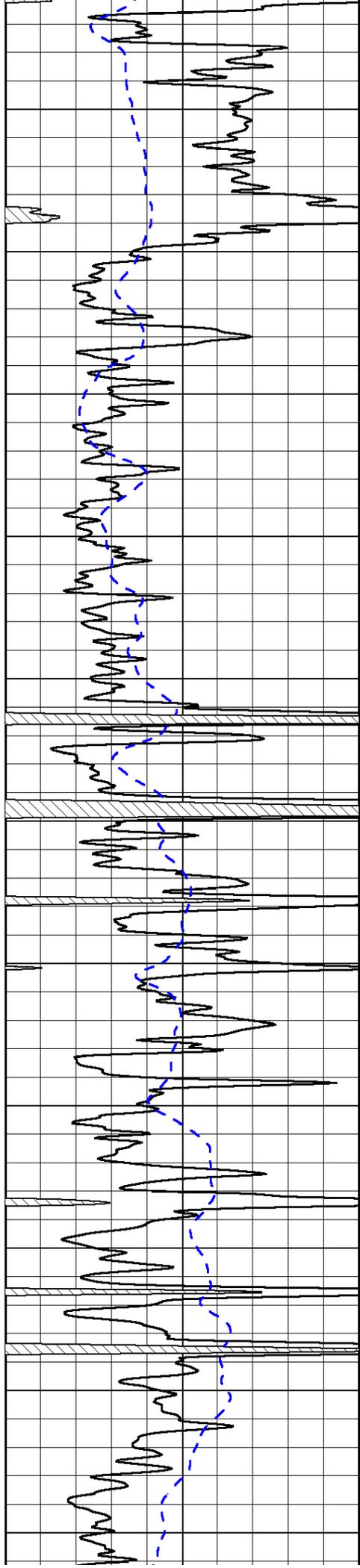


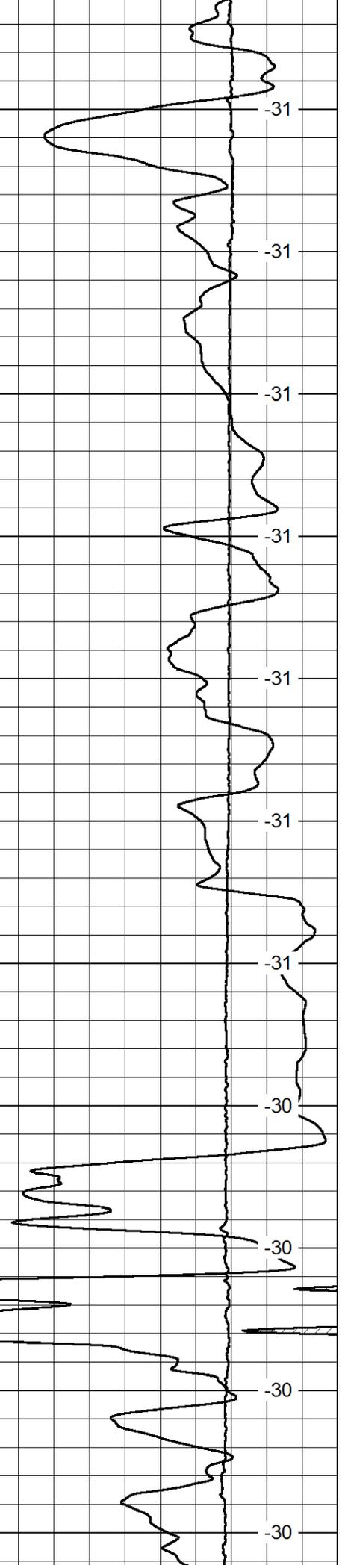
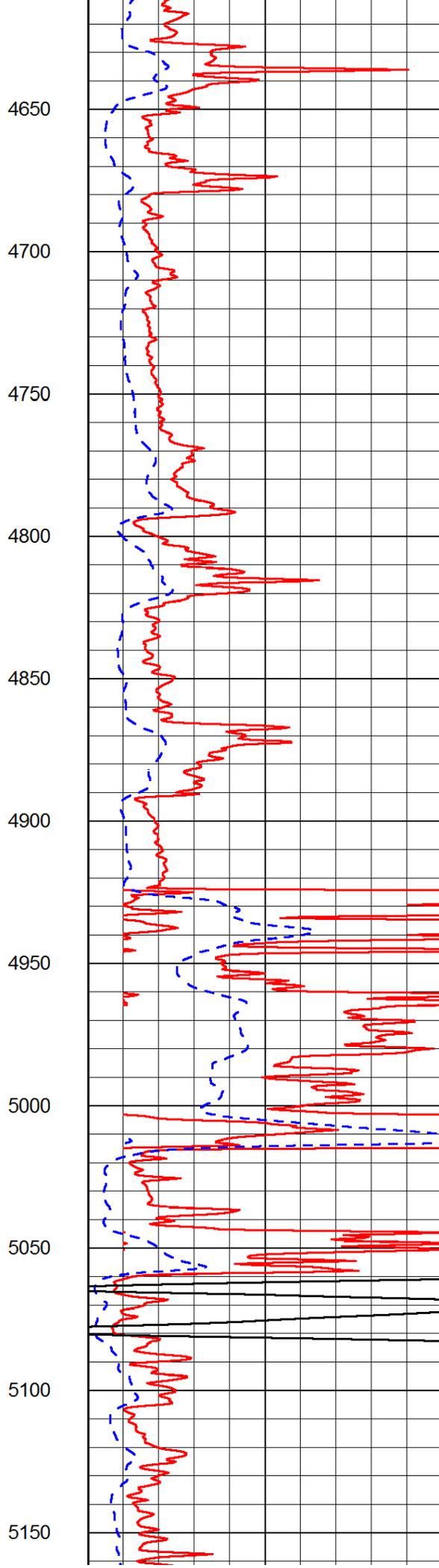
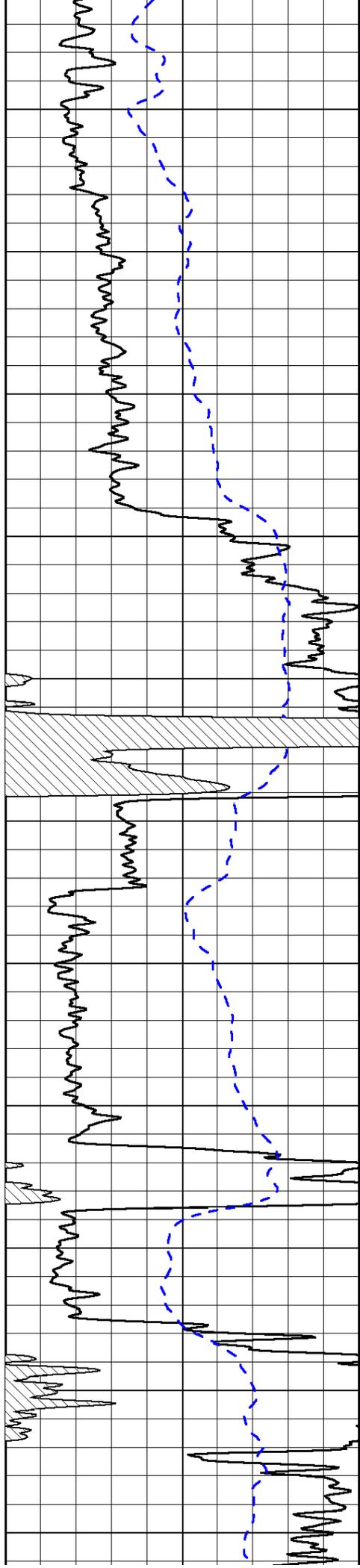


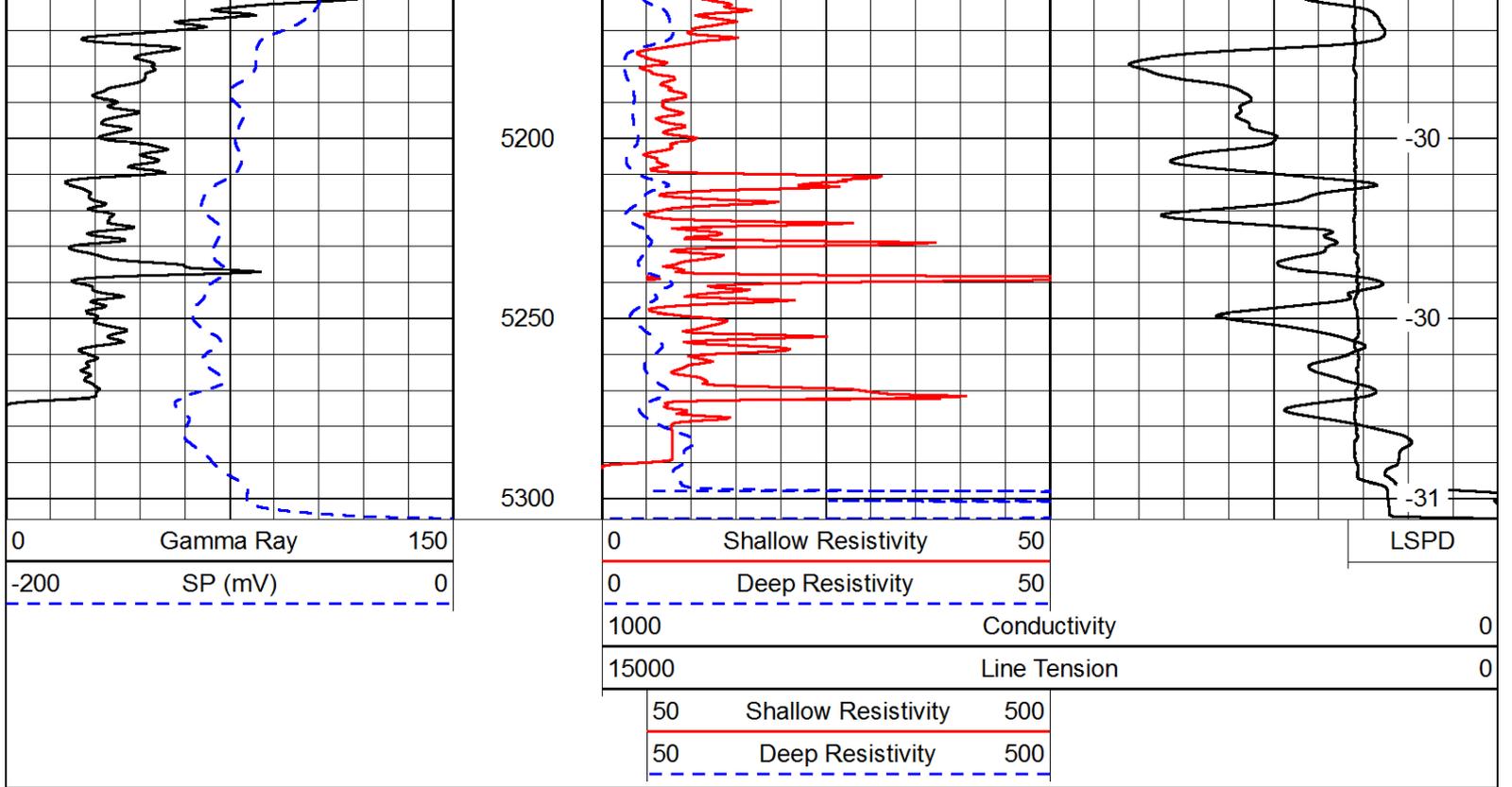




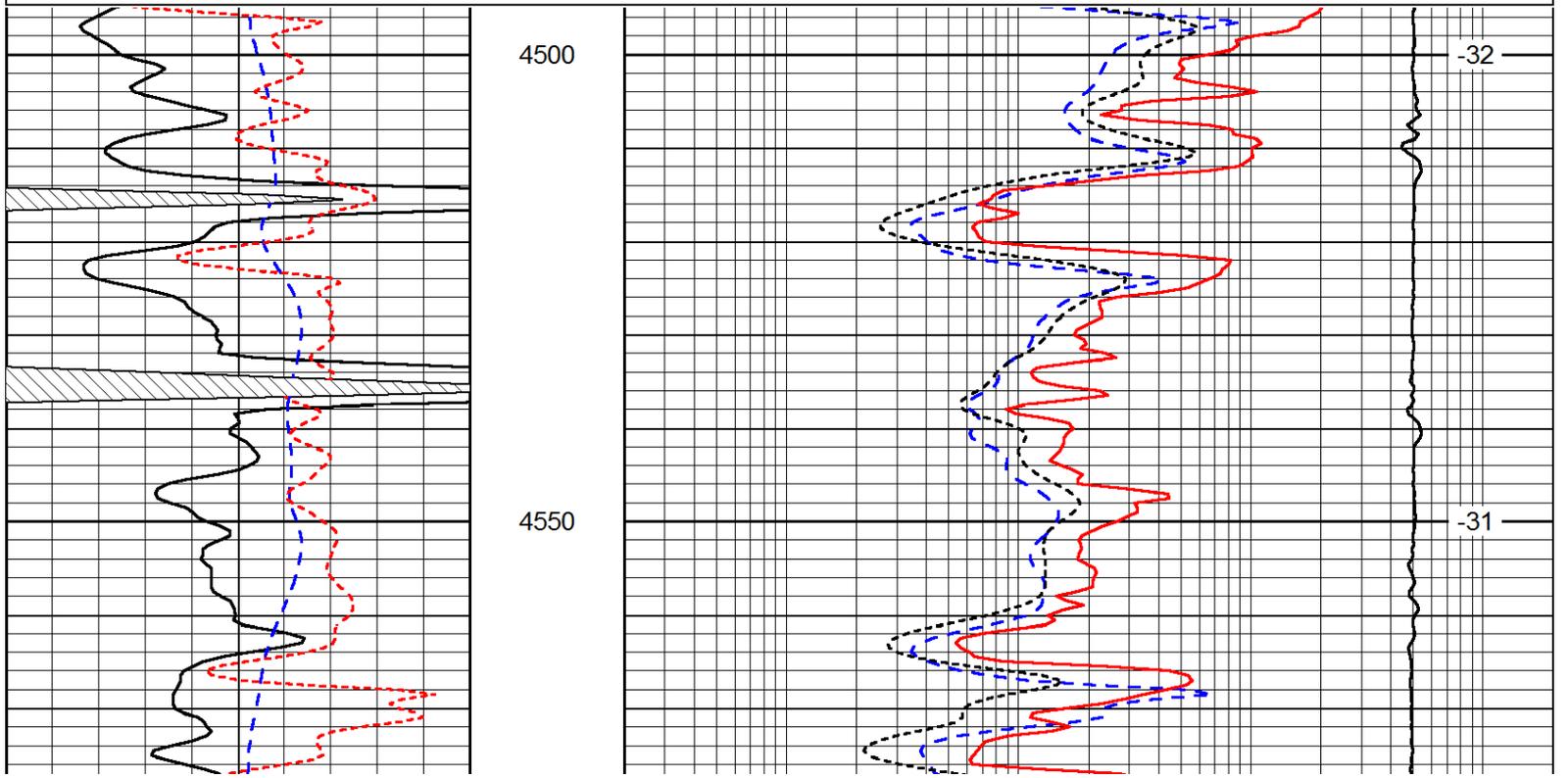
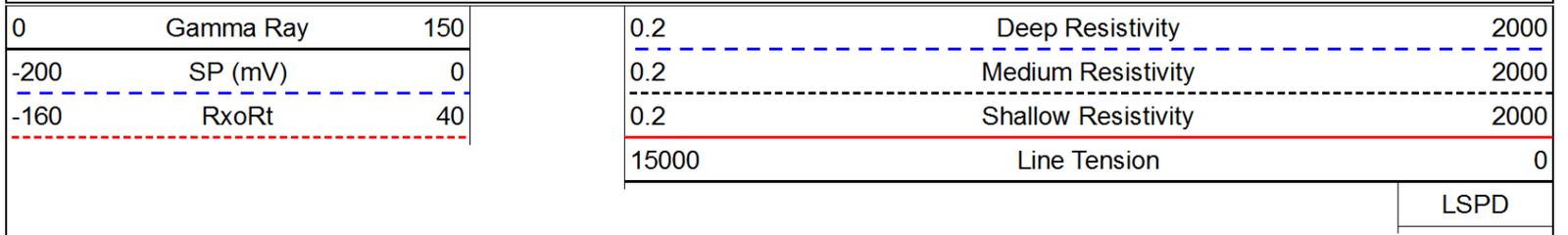


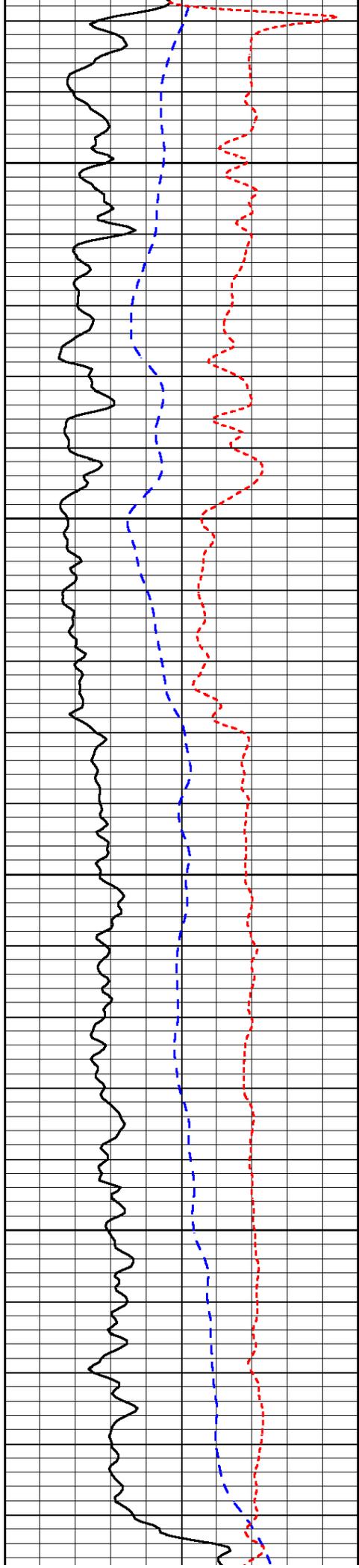






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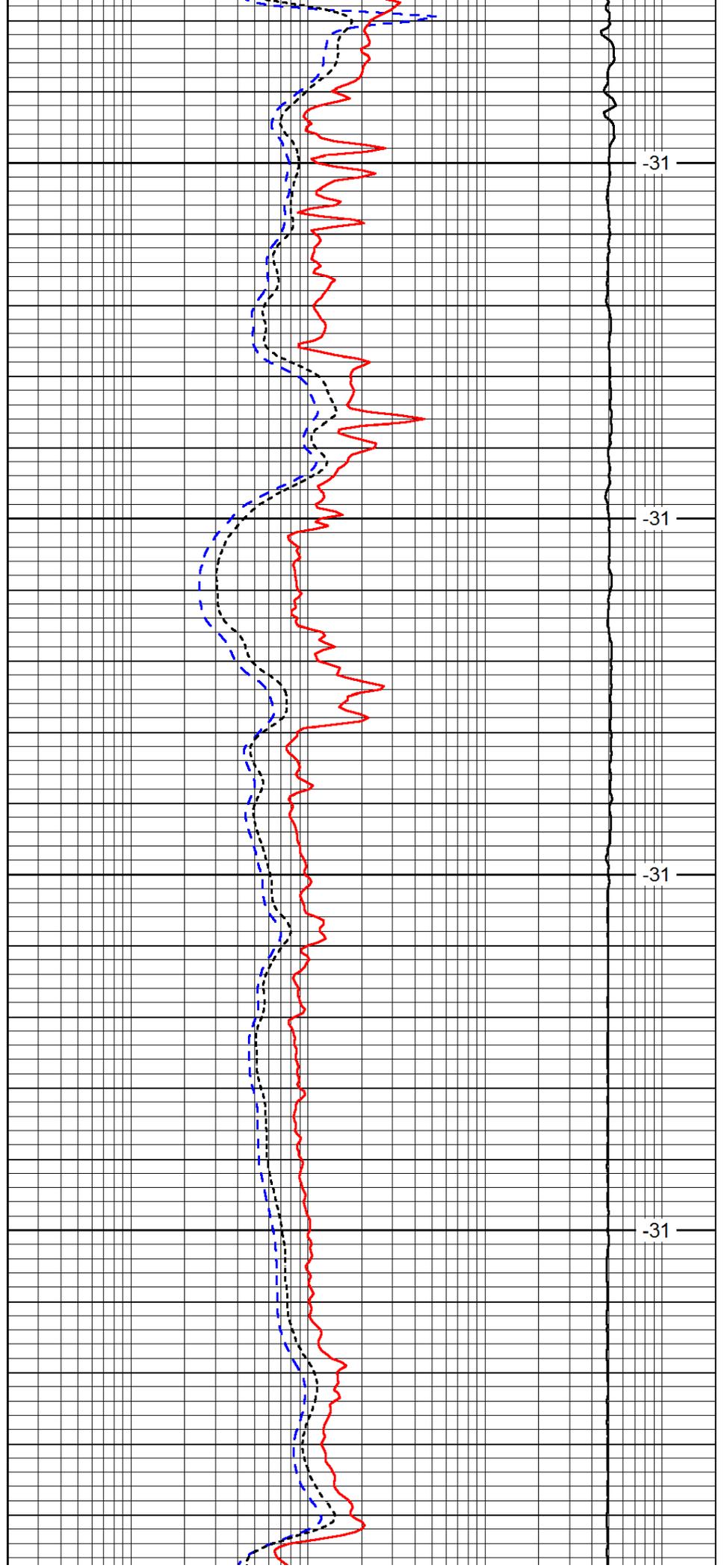


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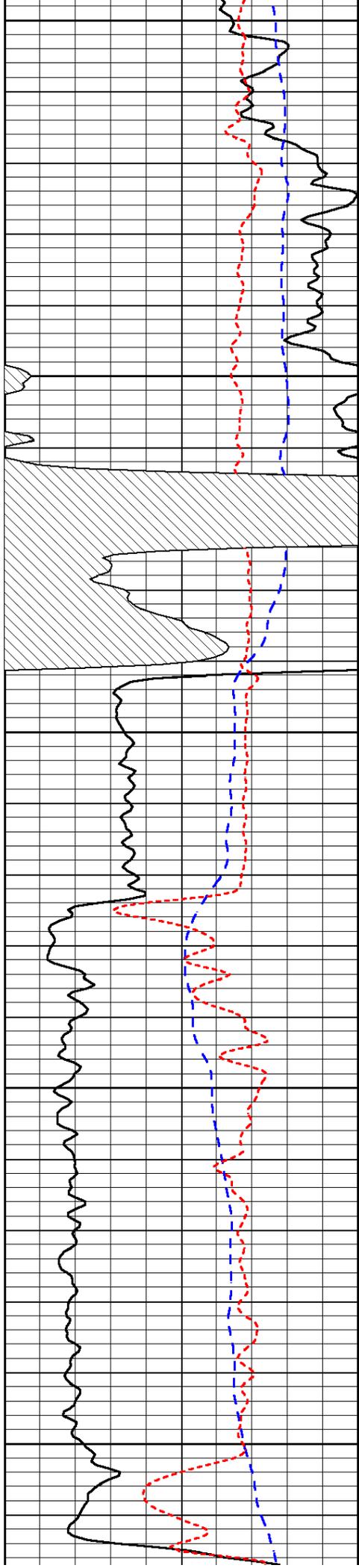


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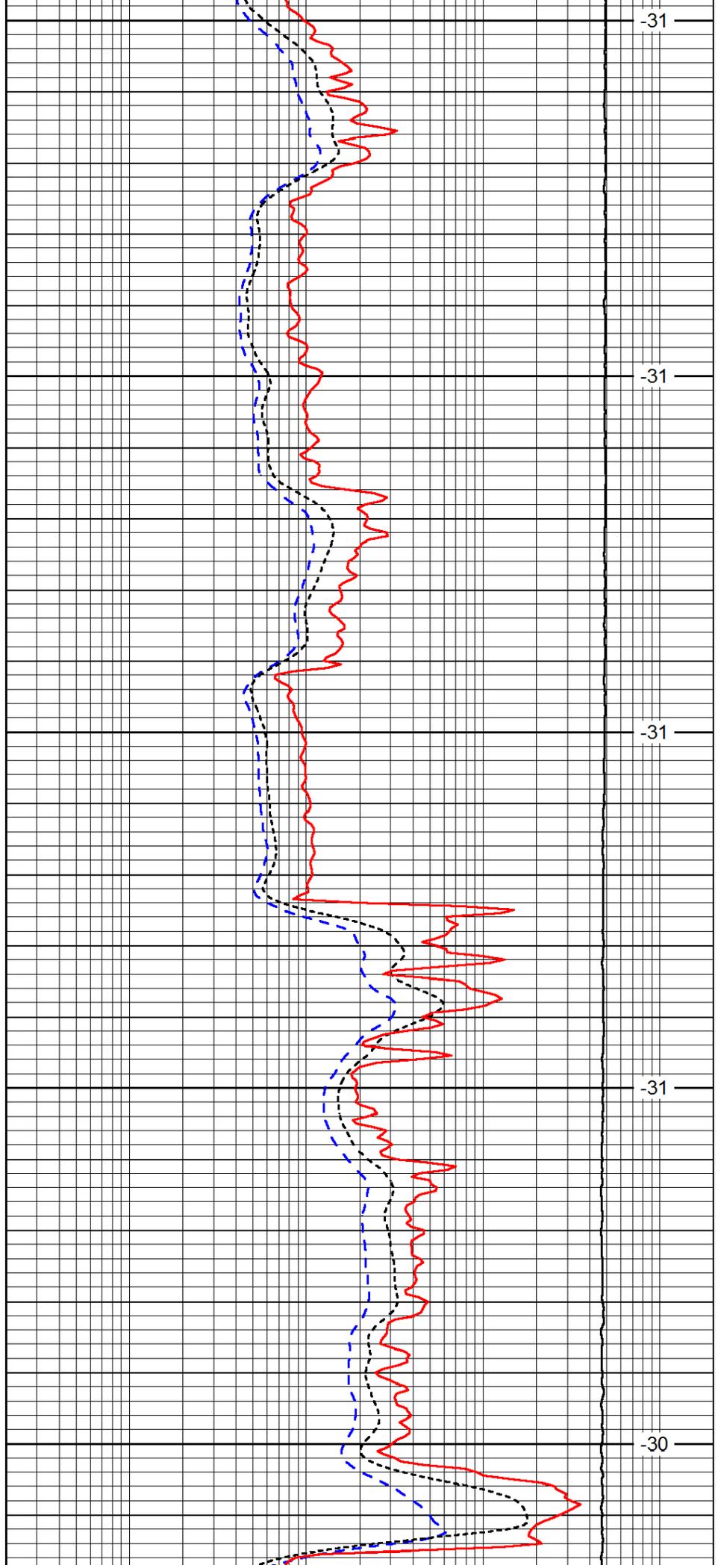
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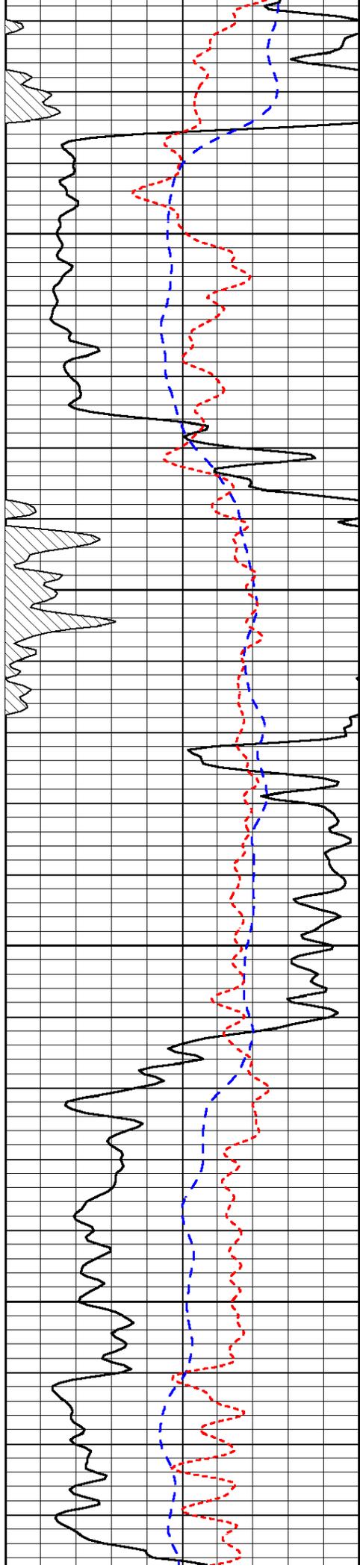
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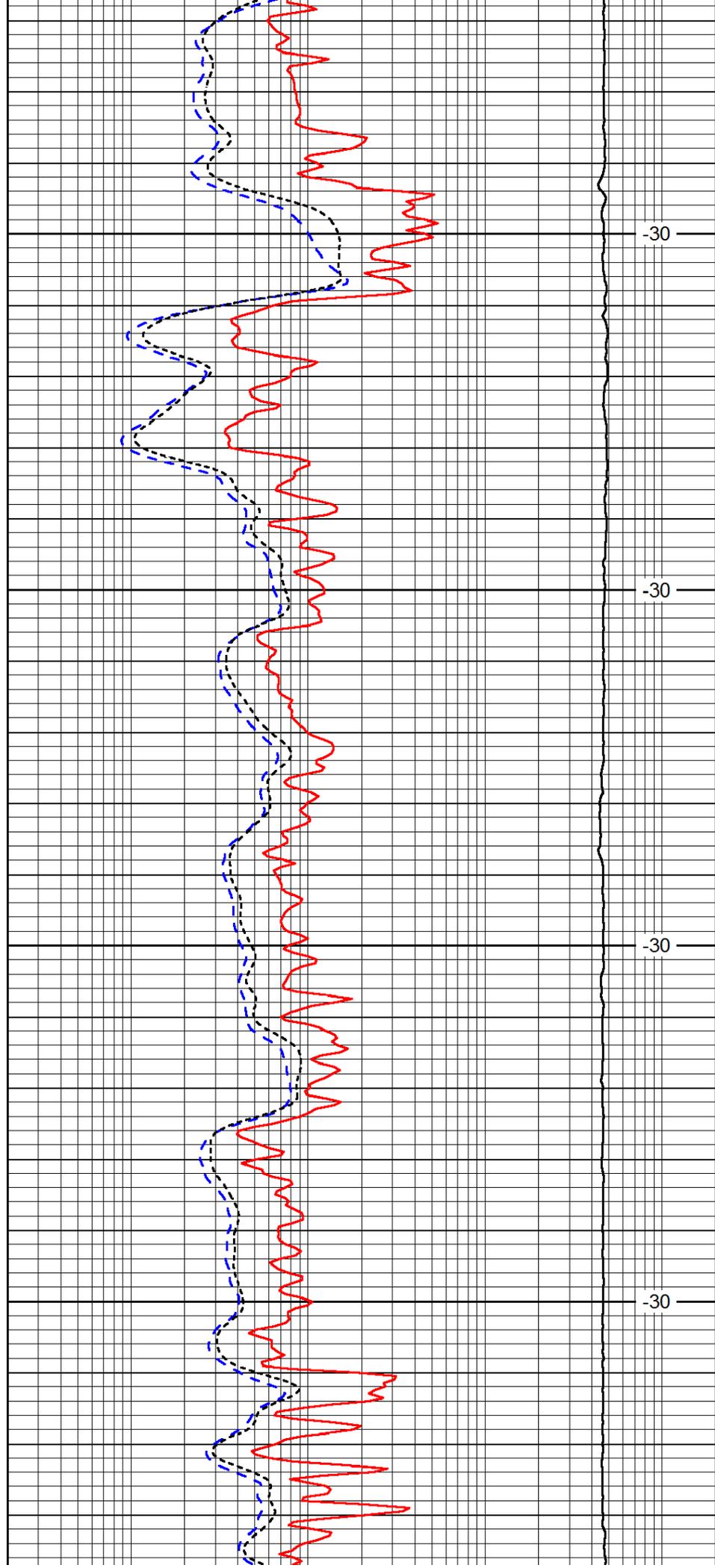


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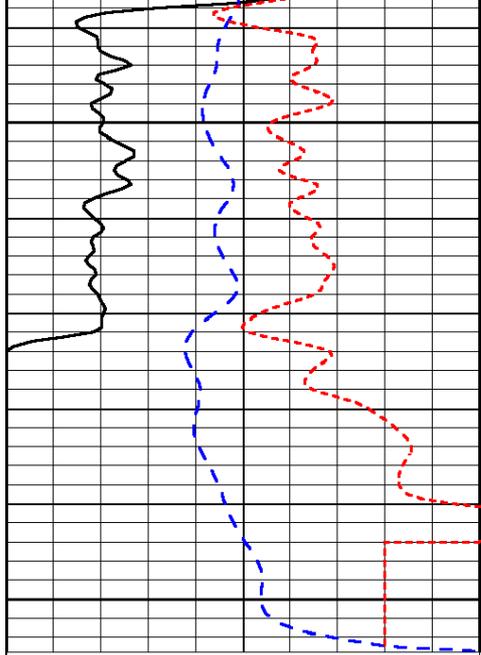


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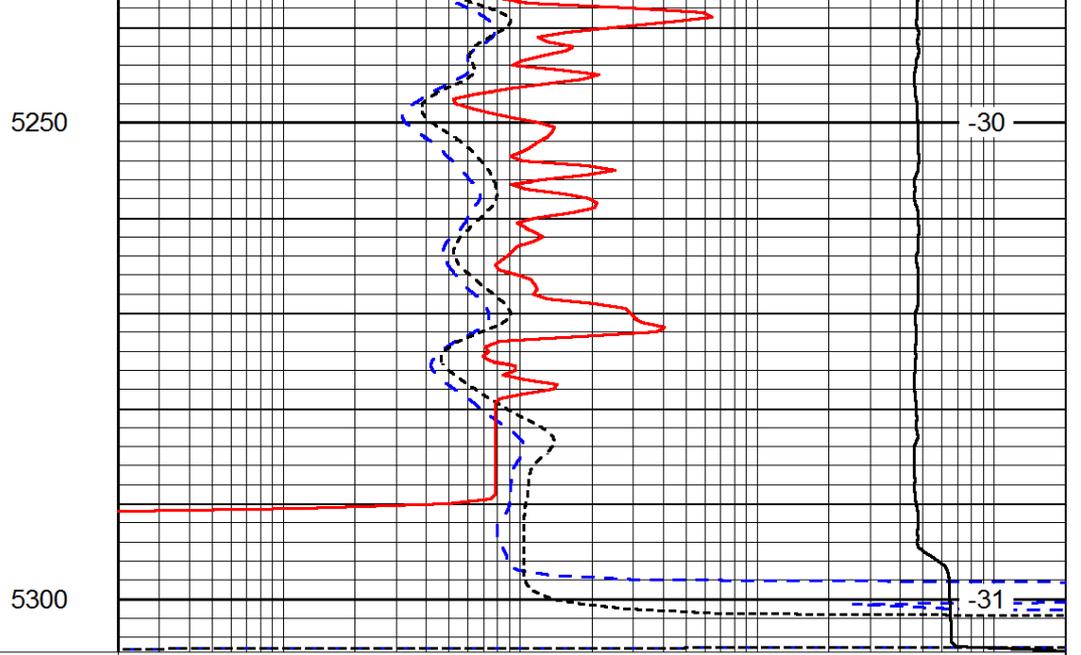
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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



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

LSPD