



Pioneer Energy Services

Dual Induction Log

API No.

15-111-20476-00-00

Company Range Oil Company, Inc.

Well Babinger #2

Field Bradfield

County Lyon

State

Kansas

Location 380' FNL & 330' FEL

Other Services
CNL/CDL
MEL

Sec: 26

Twp: 21S

Rge: 10E

Elevation

Permanent Datum Ground Level Elevation 1284
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 6/18/2013

Run Number One

Depth Driller 2670

Depth Logger 2669

Bottom Logged Interval 2668

Top Log Interval 0

Casing Driller 8.625 @ 232

Casing Logger 226

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1800

Density / Viscosity 9.4 54

pH / Fluid Loss 9.5 9.6

Source of Sample Flowline

Rm @ Meas. Temp 0.60 @ 76

Rmf @ Meas. Temp 0.45 @ 76

Rmc @ Meas. Temp 0.81 @ 76

Source of Rmf / Rmc Charts

Rm @ BHT 0.44 @ 105

Operating Rig Time 4 Hours

Max Rec. Temp. F 105

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By John Washburn

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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
Madison,
1 1/2 North to 380 Rd, 6 West to G Rd,
1 North to 20 Rd, 1 West,
North into thru gate for about 1 mile

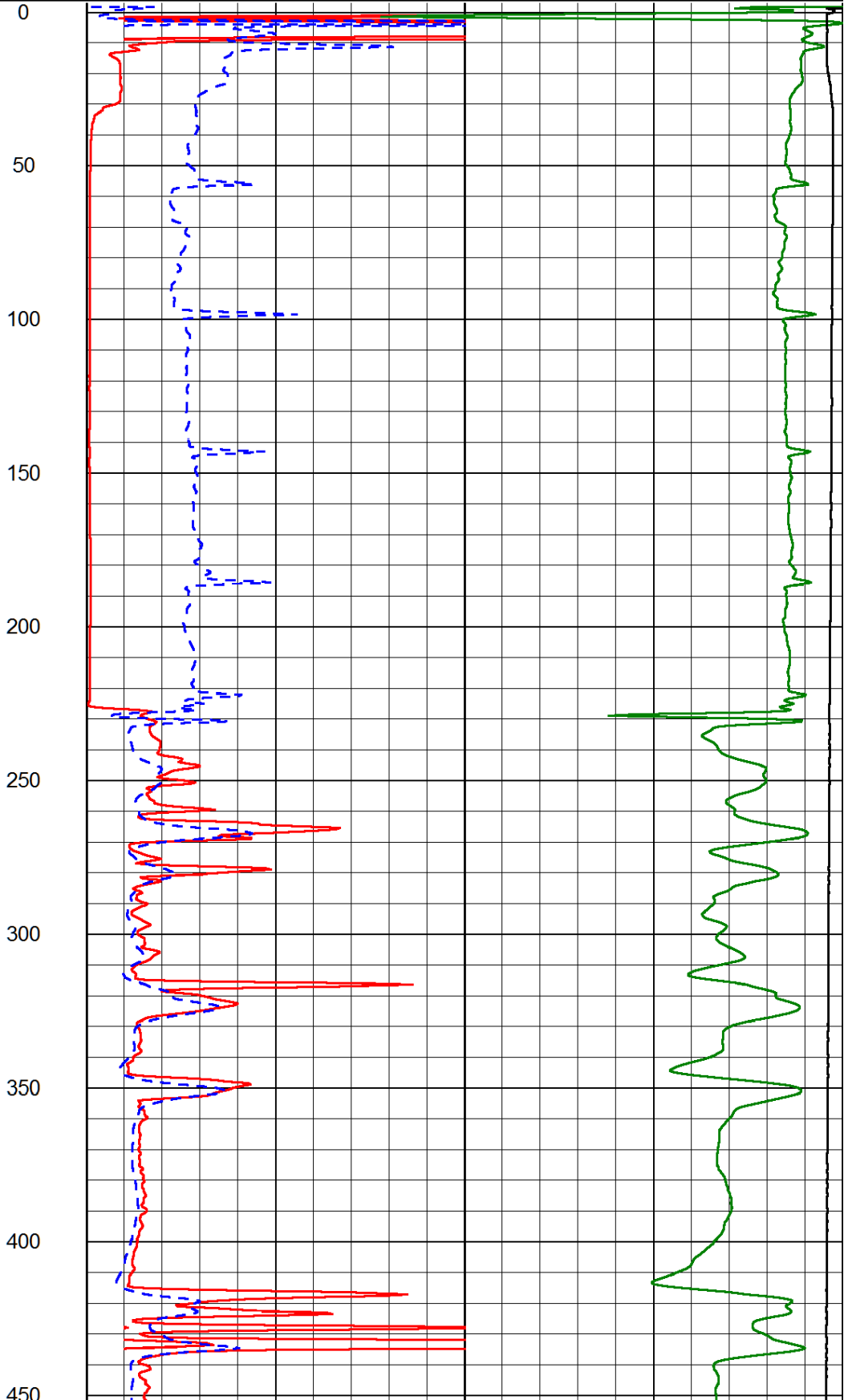
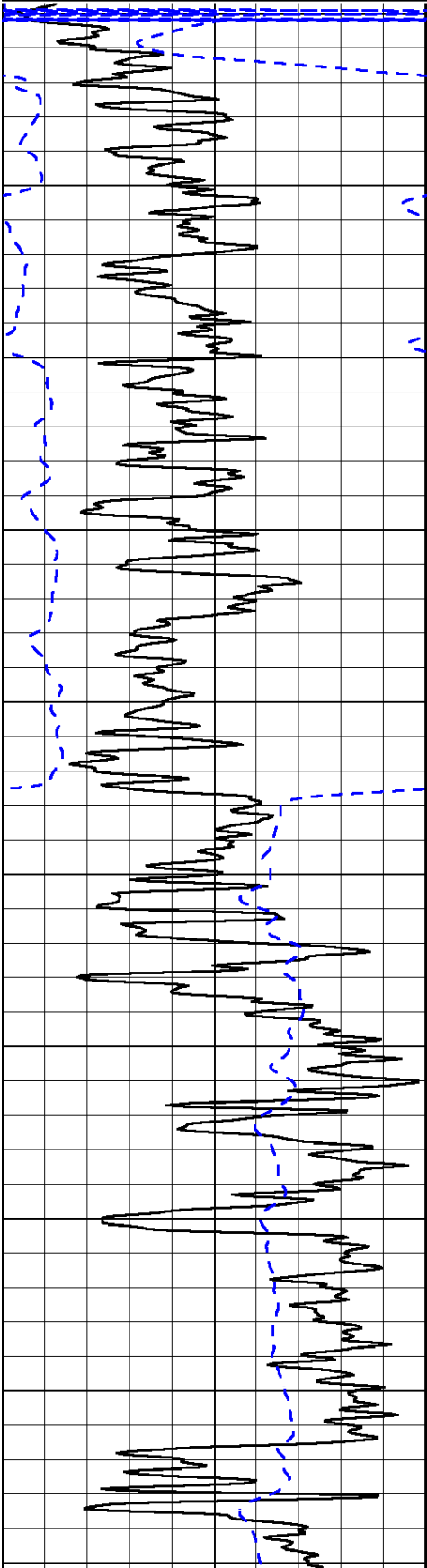
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Dataset Pathname: dil/dil3
Presentation Format: dil2in
Dataset Creation: Tue Jun 18 13:38:14 2013
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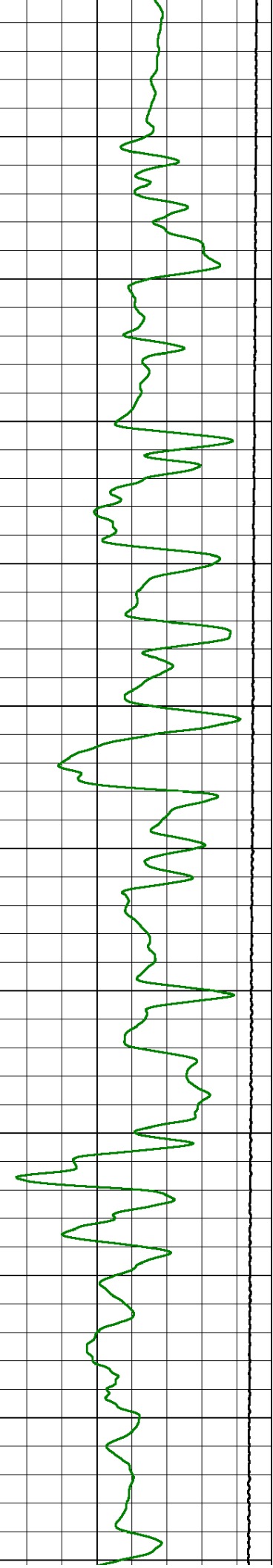
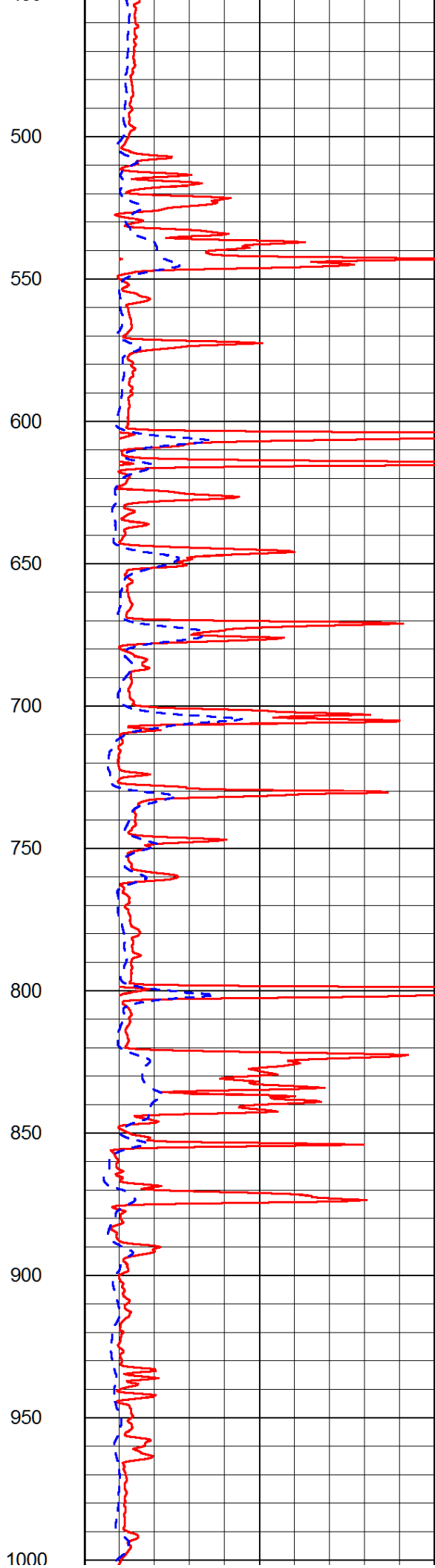
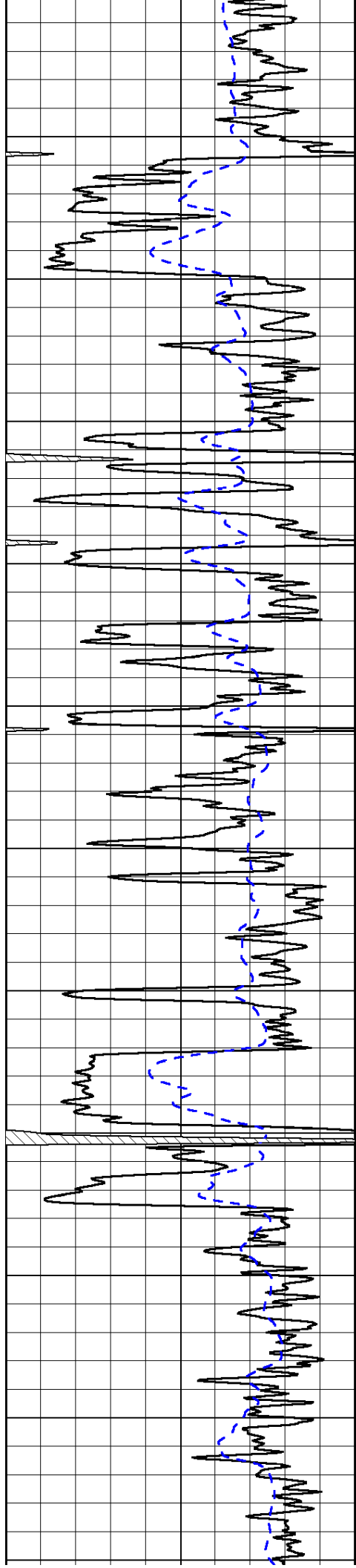
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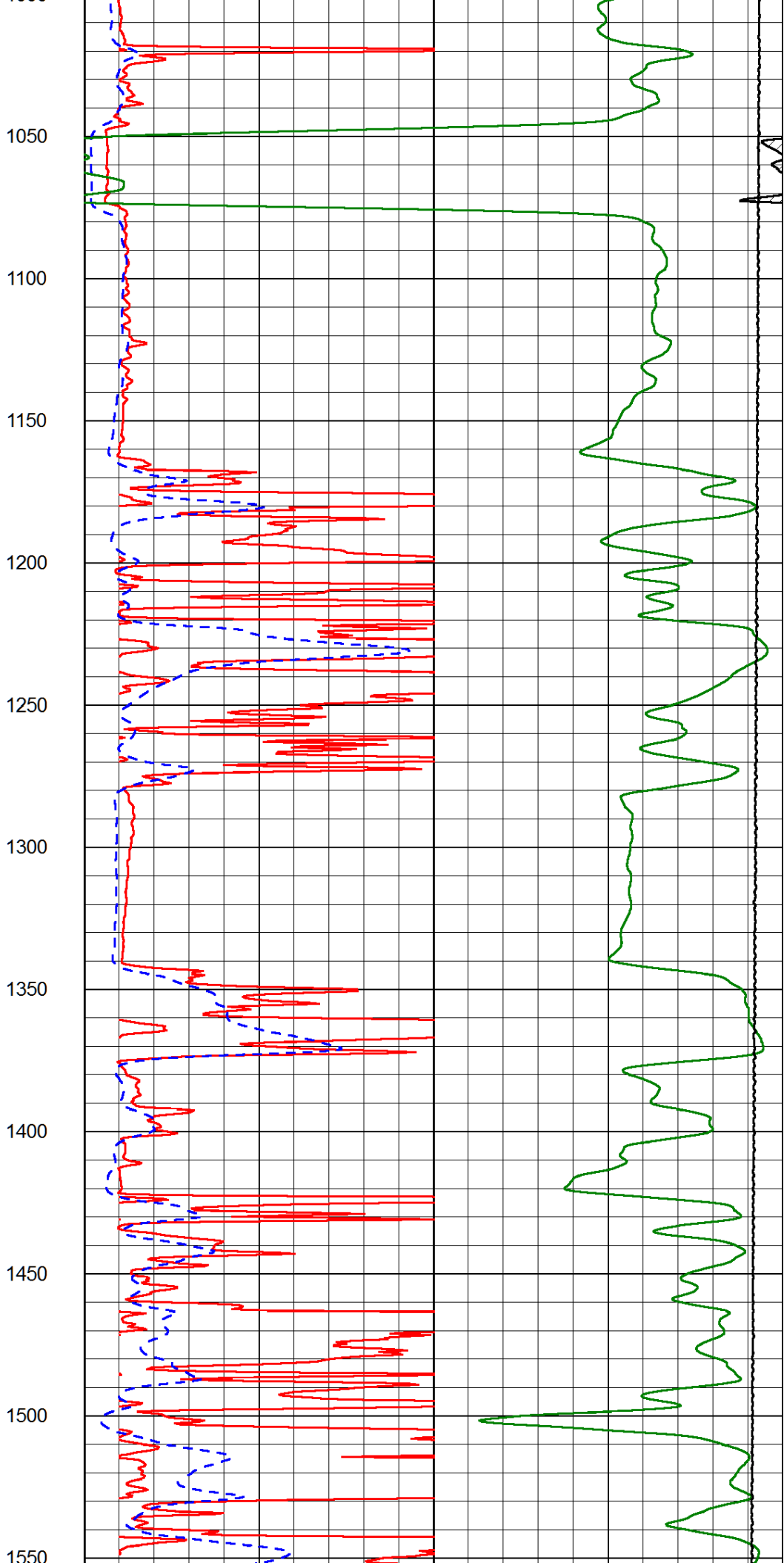
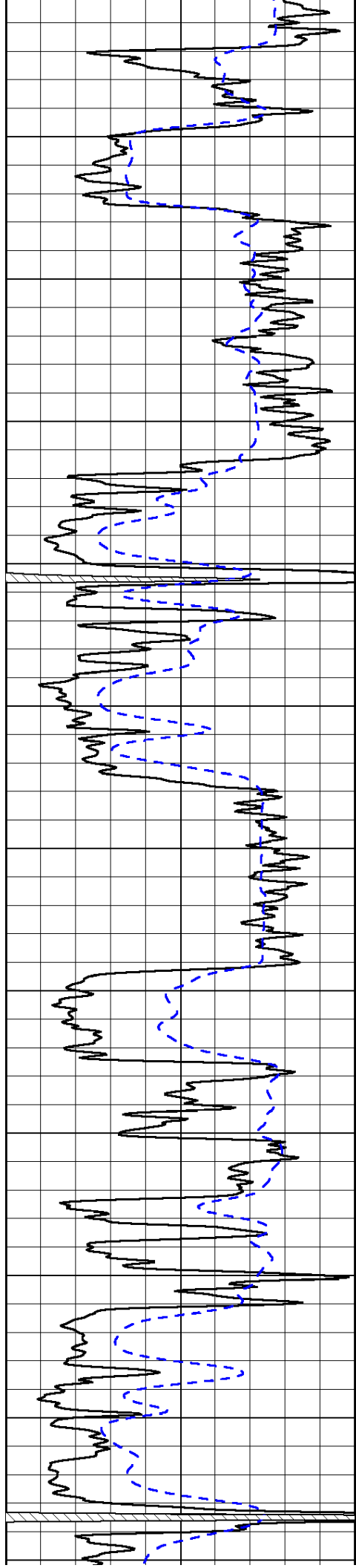
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-200	SP (mV)	0

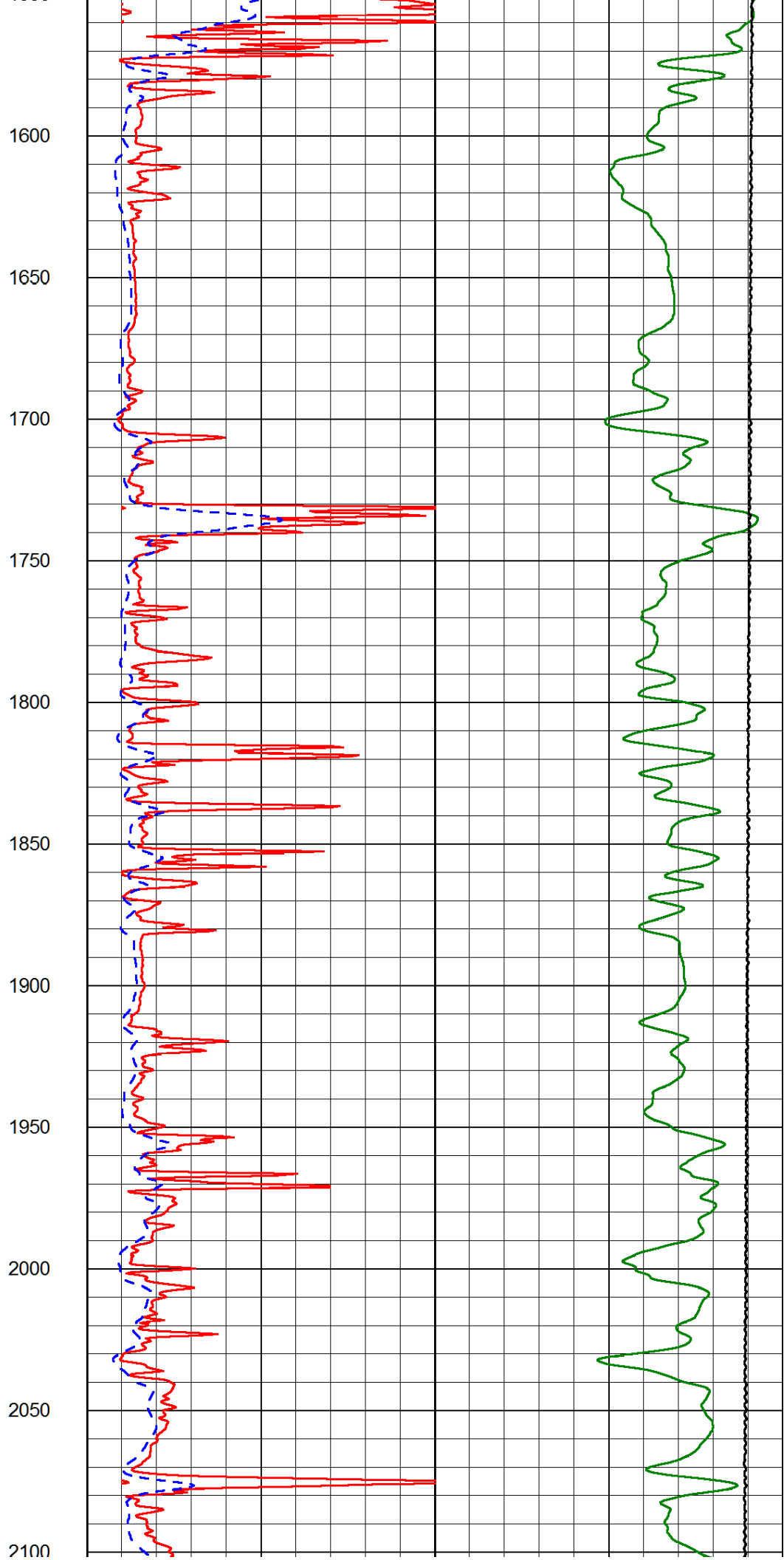
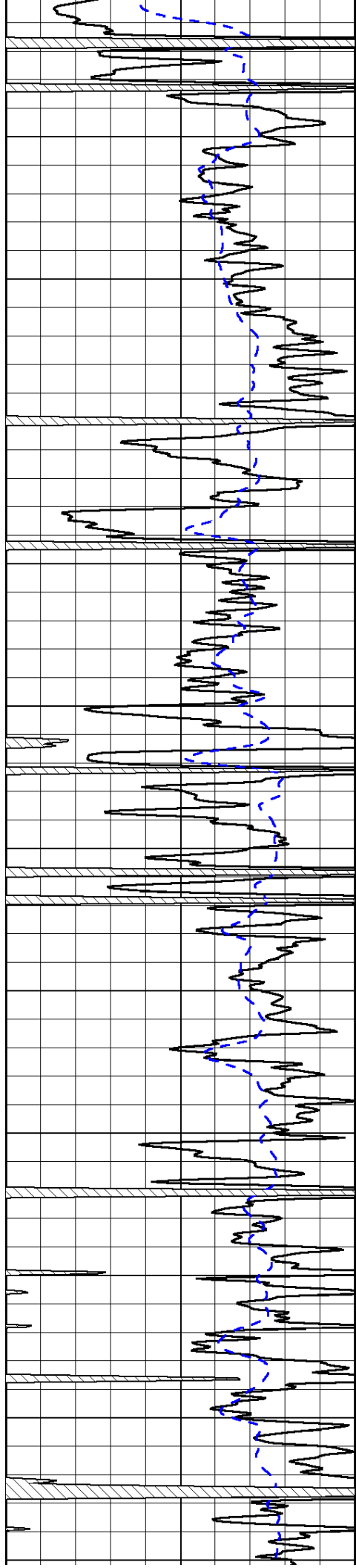
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0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

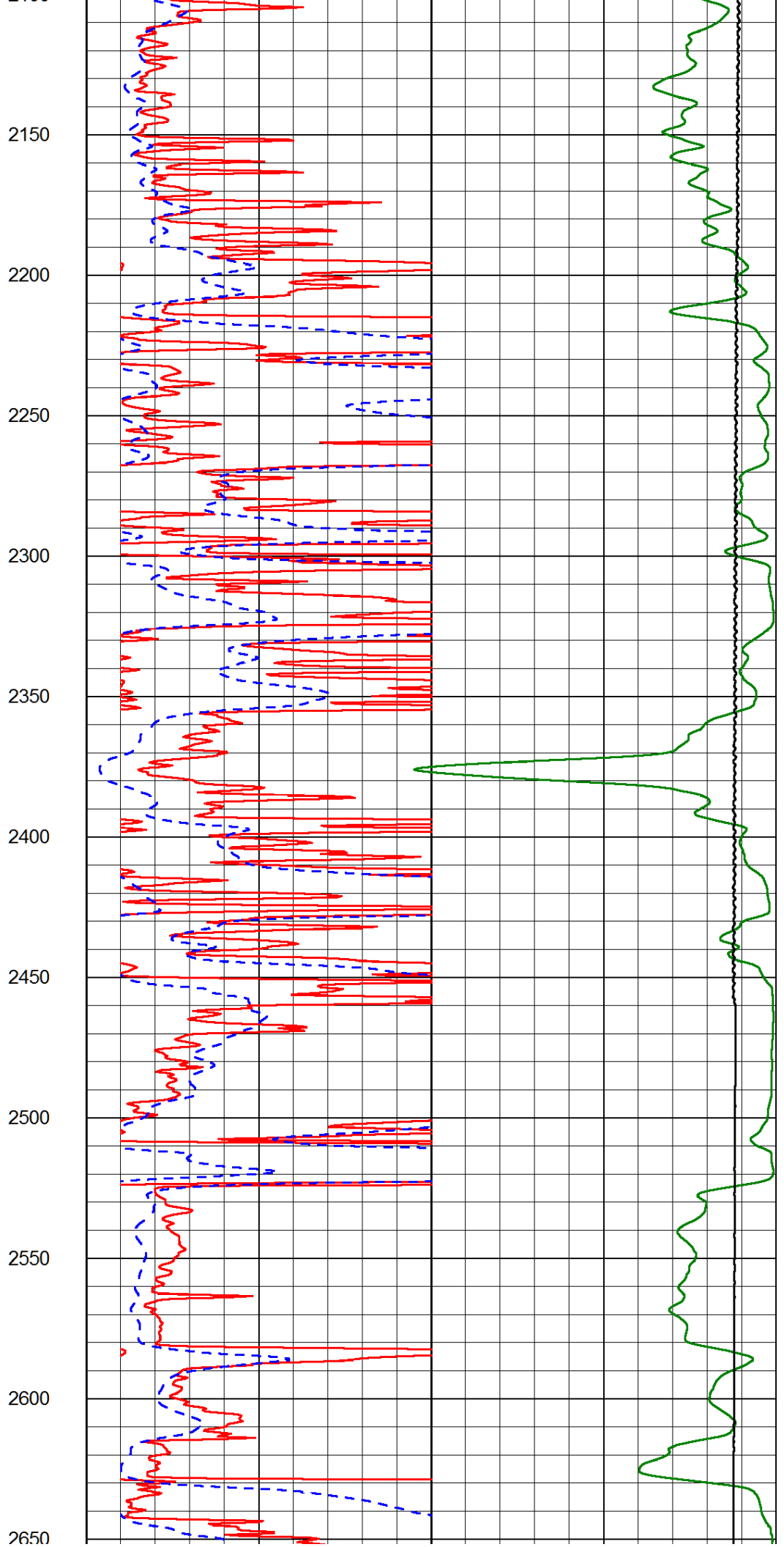
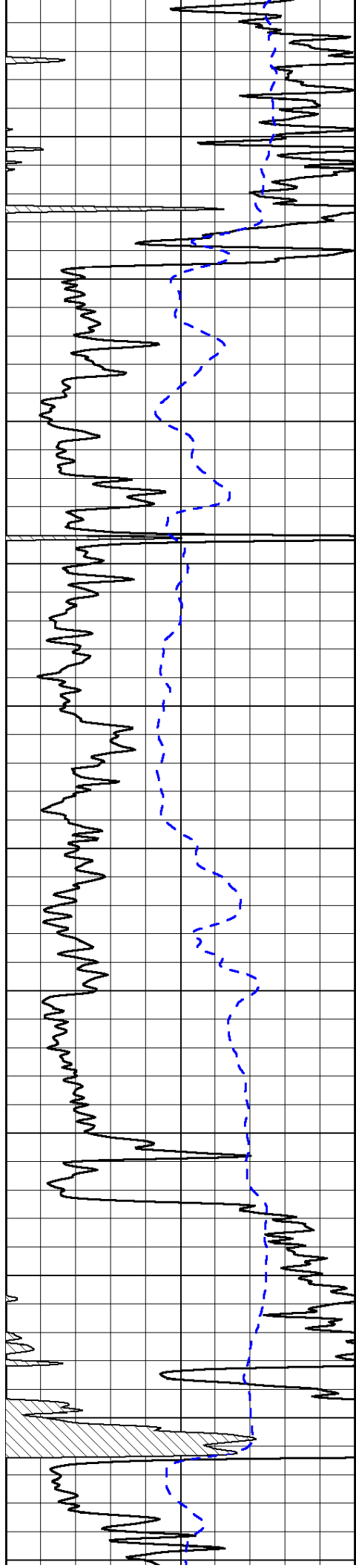
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50	Deep Resistivity (Ohm-m)	500

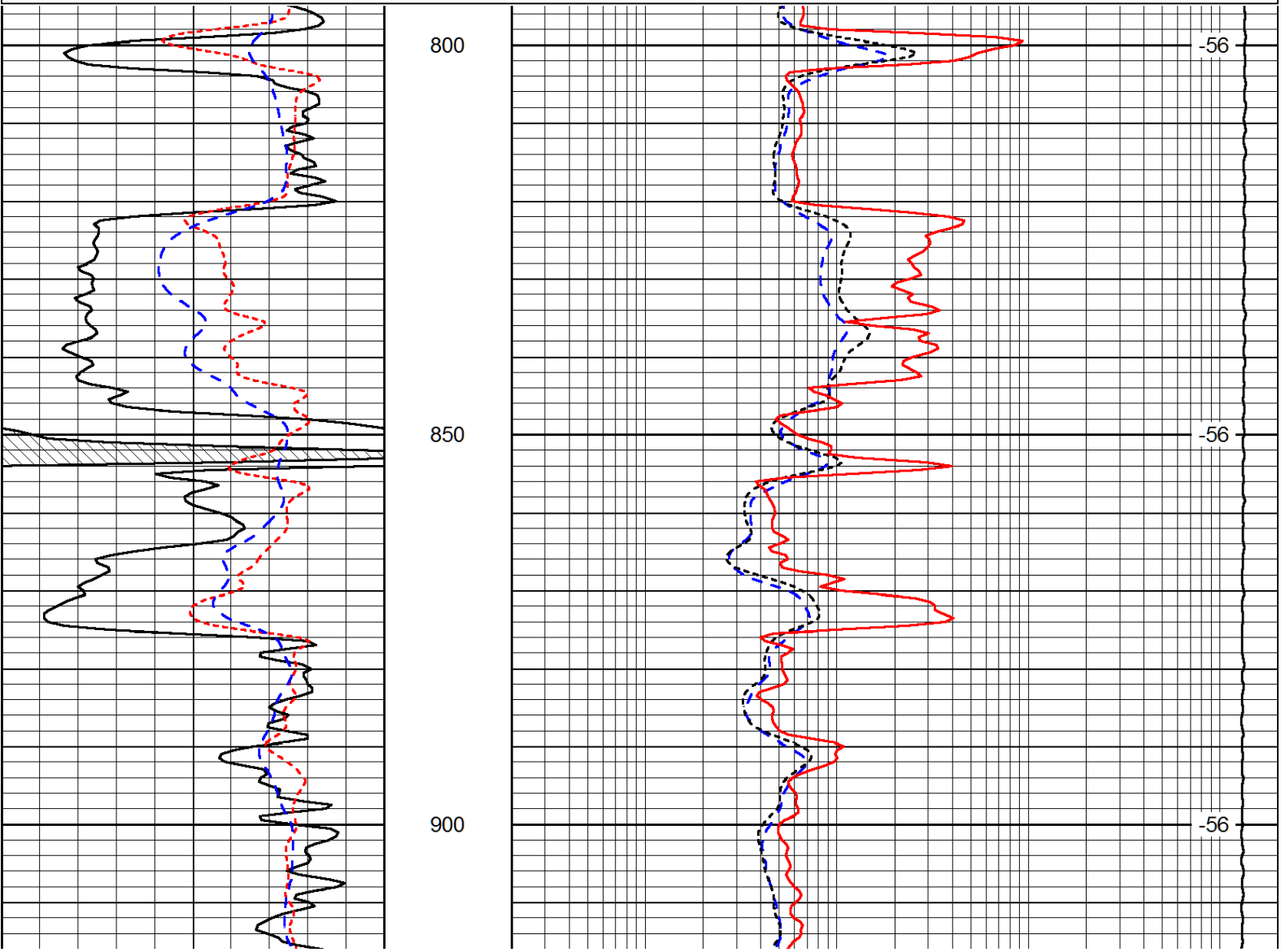
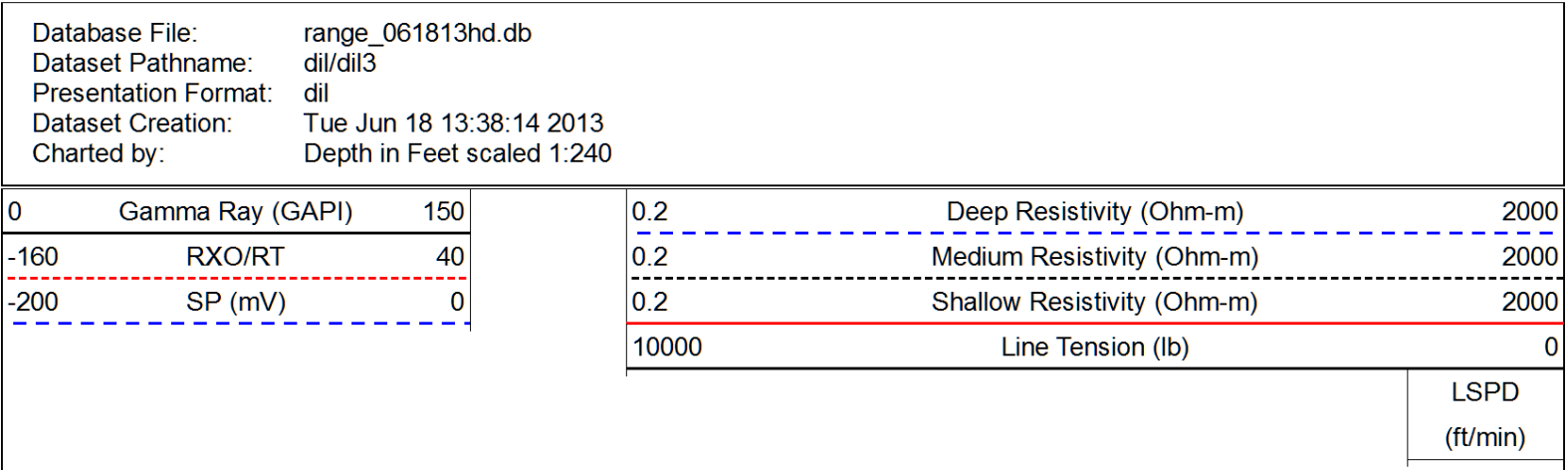
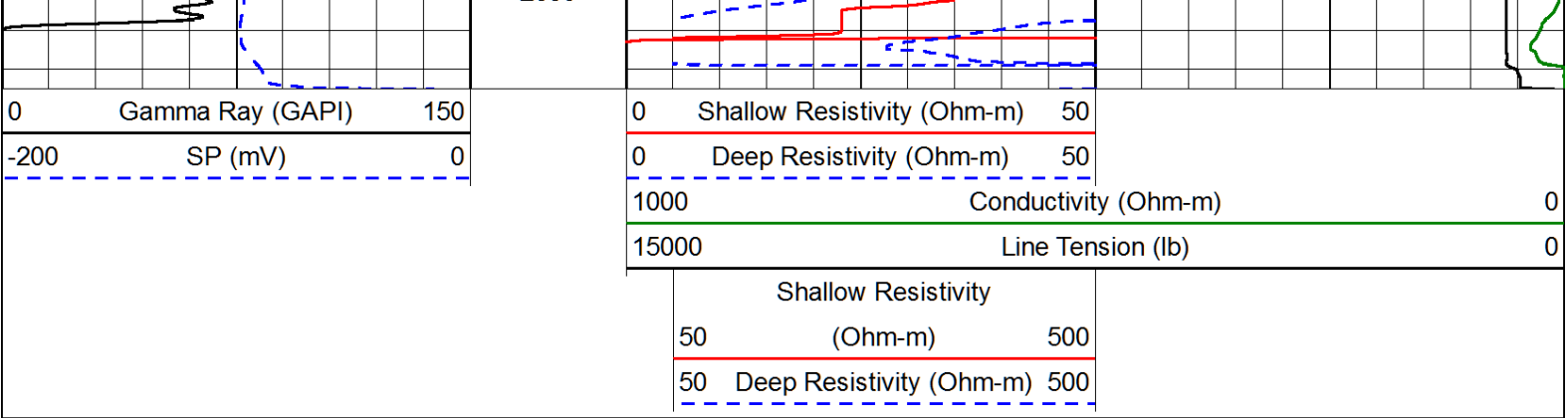


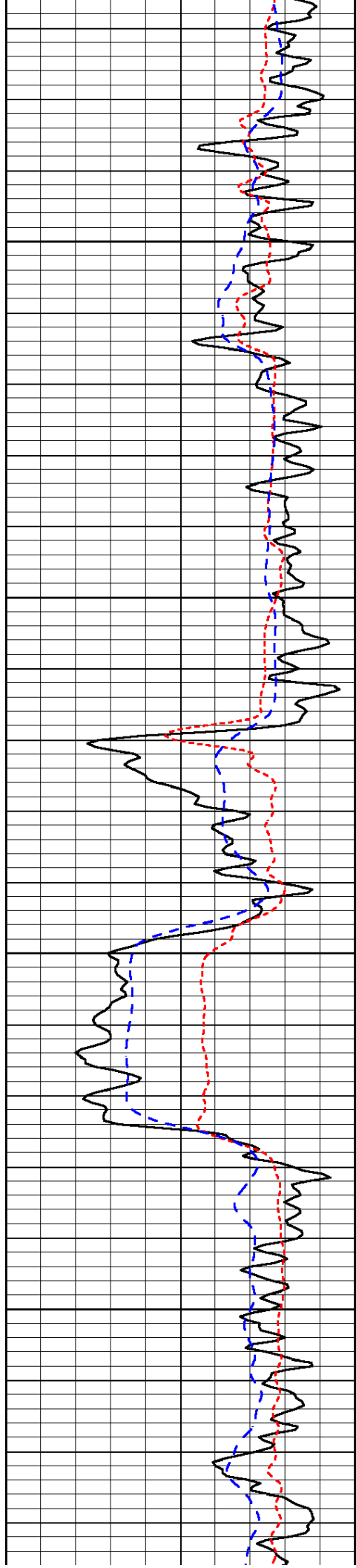










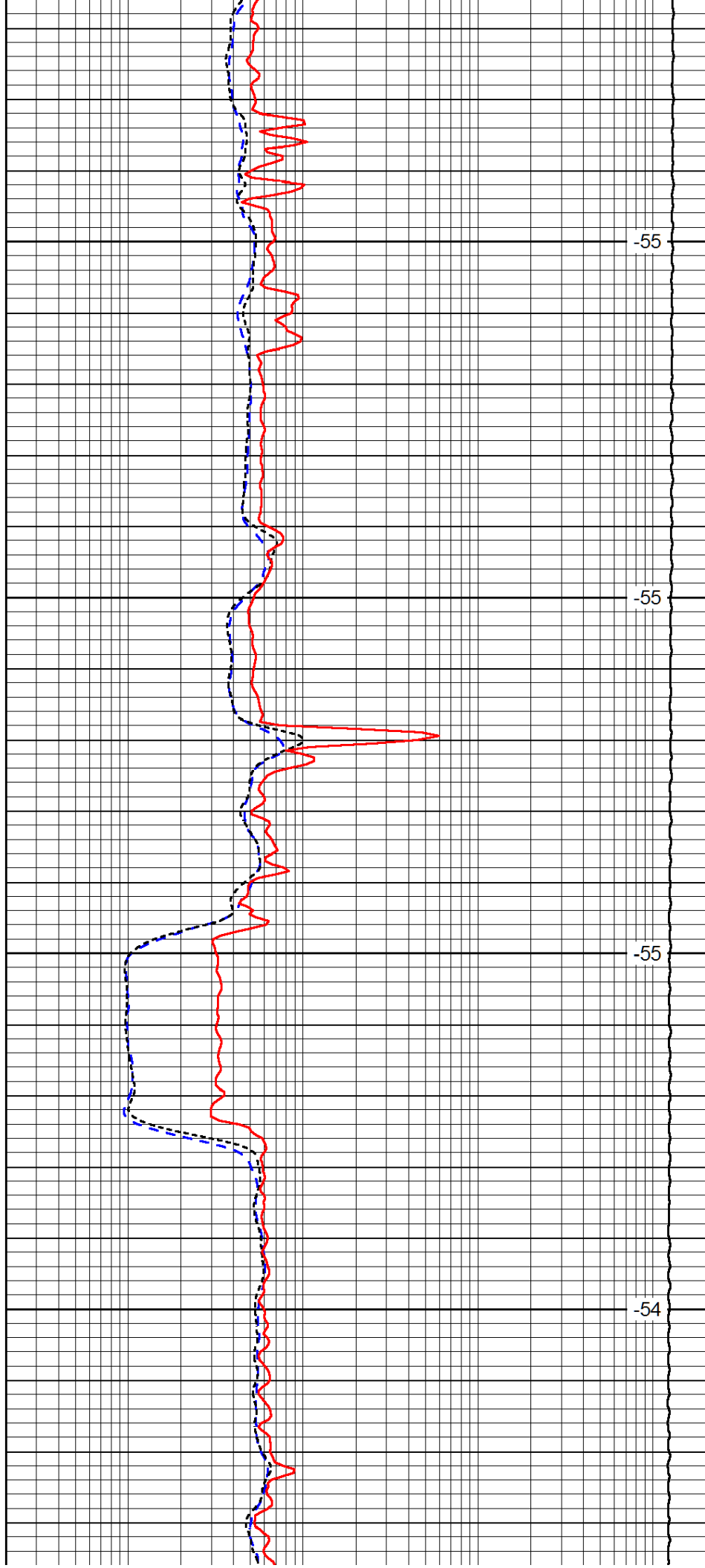


950

1000

1050

1100

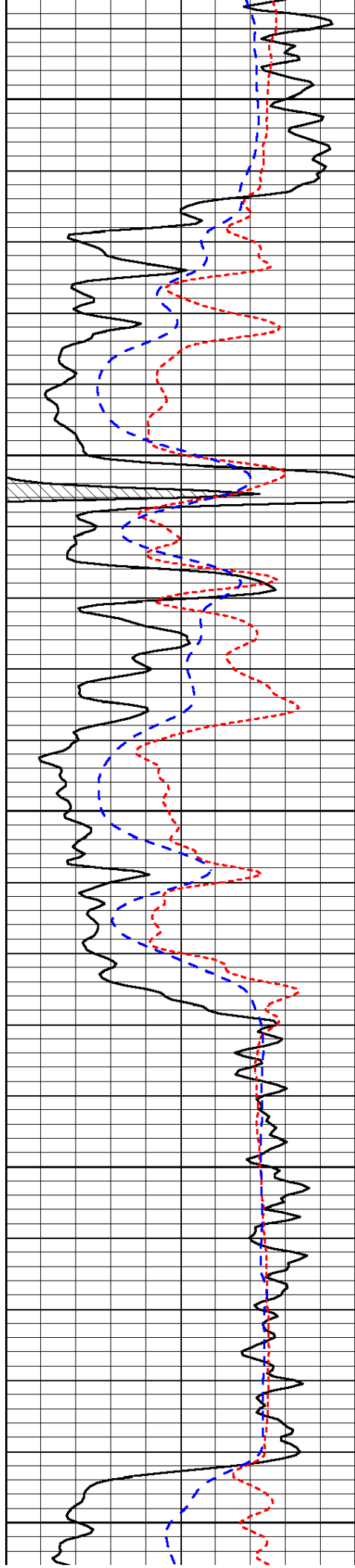


-55

-55

-55

-54



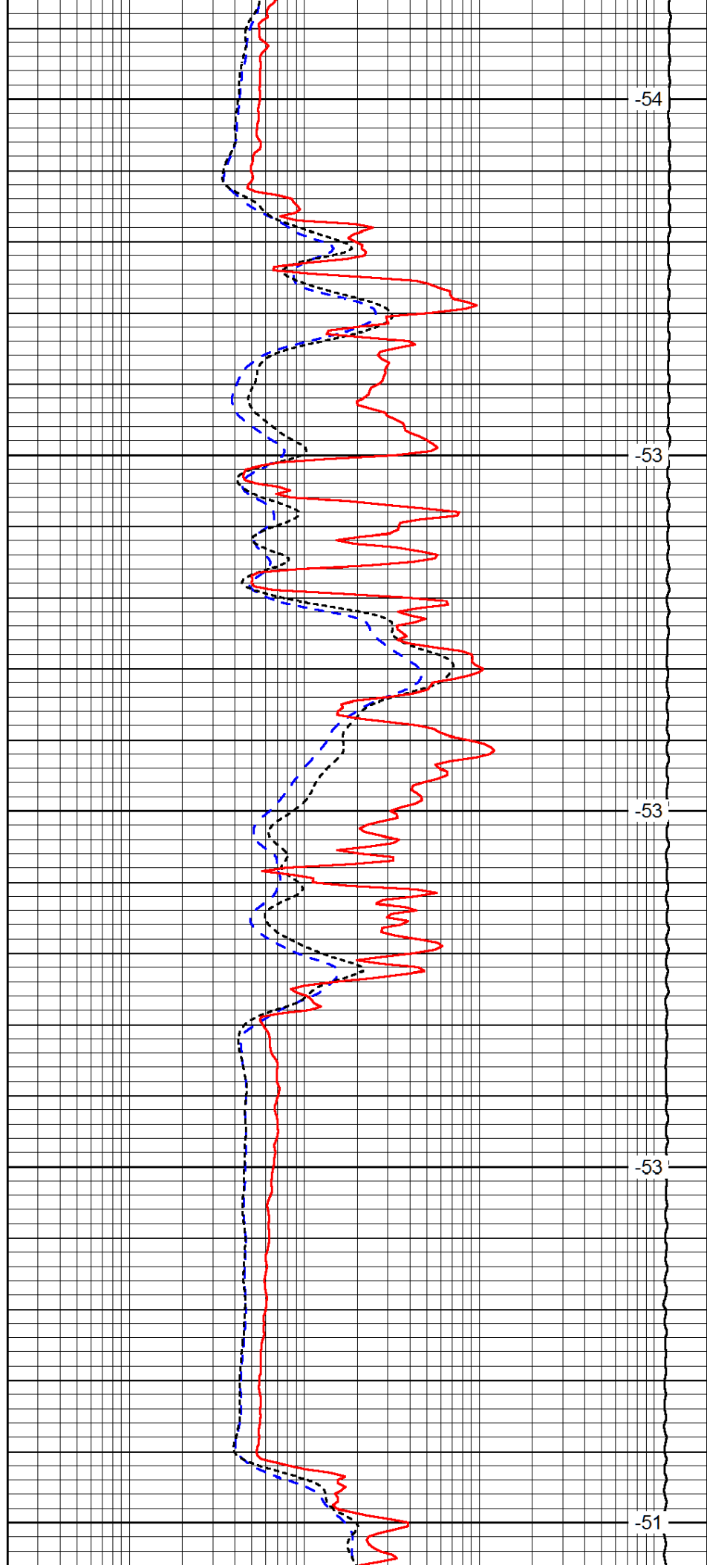
1150

1200

1250

1300

1350



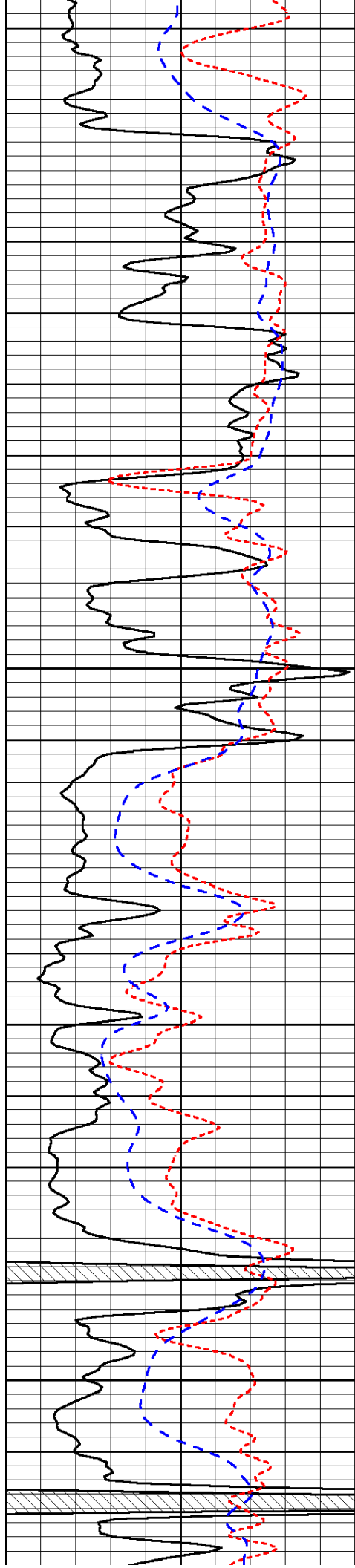
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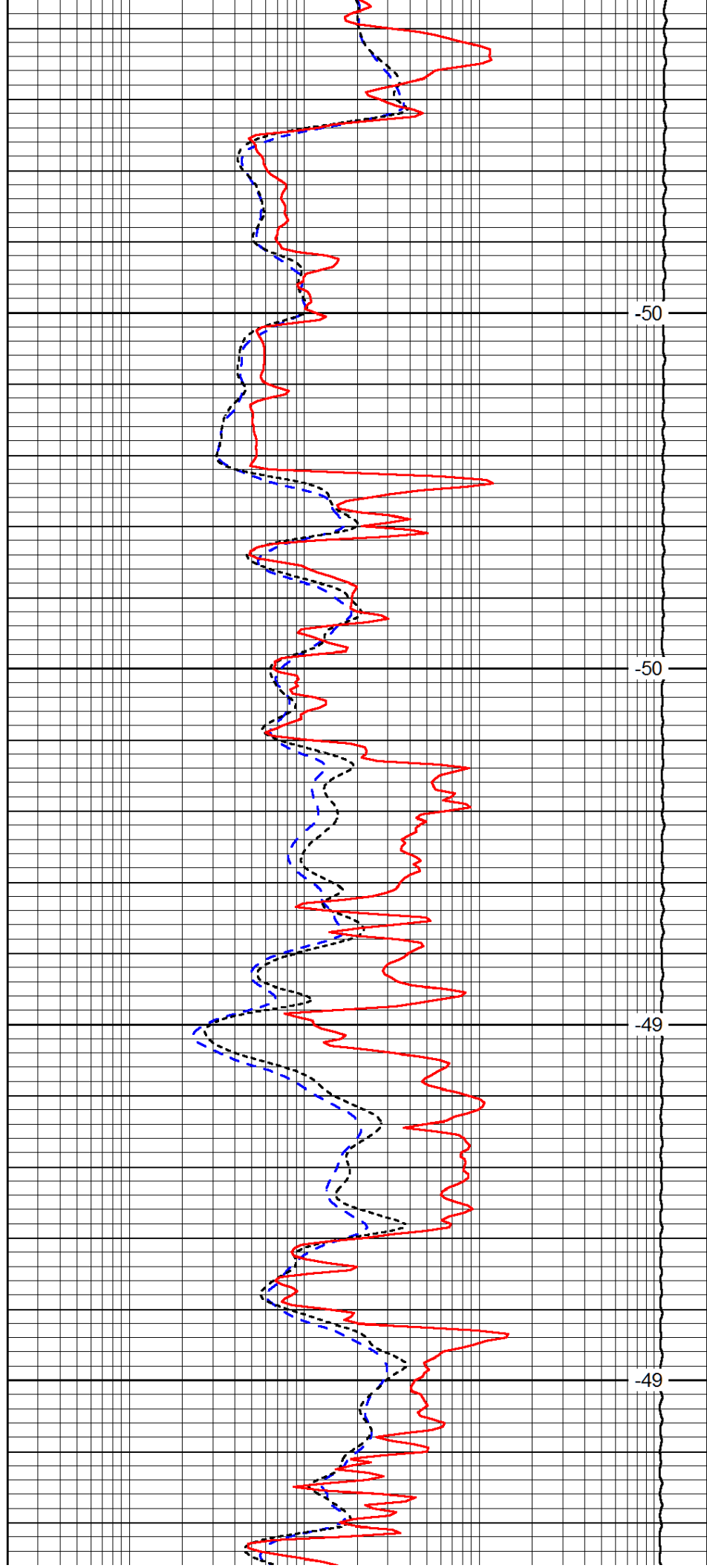


1400

1450

1500

1550

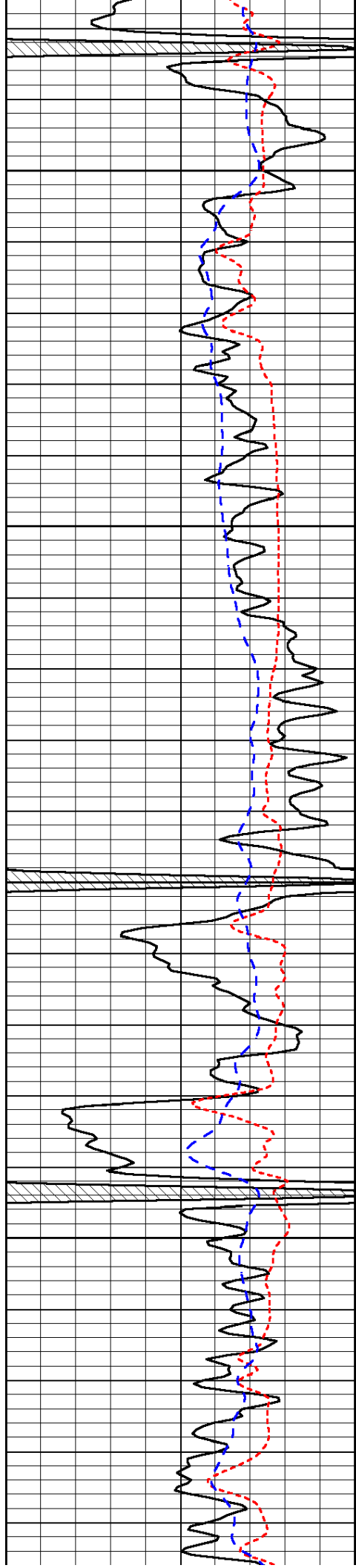


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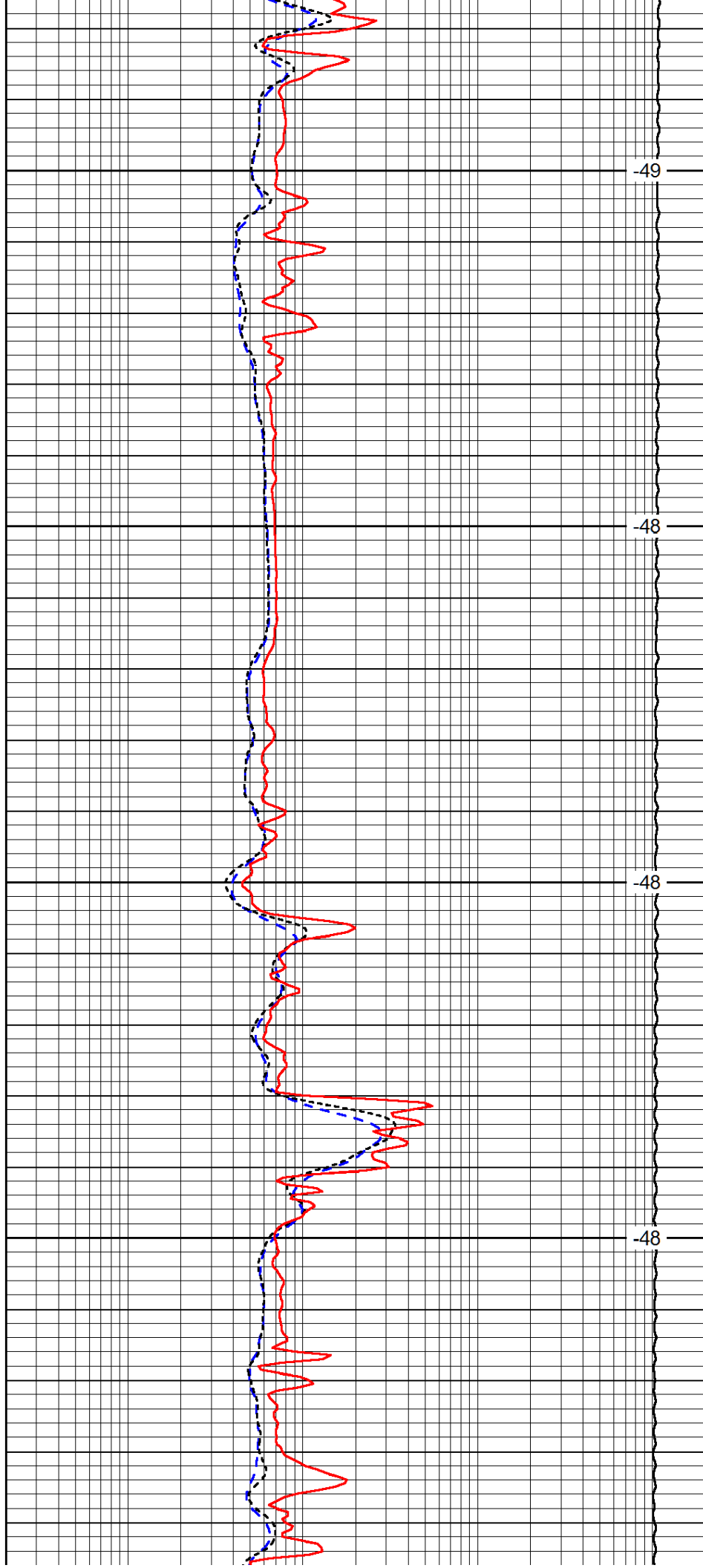


1600

1650

1700

1750

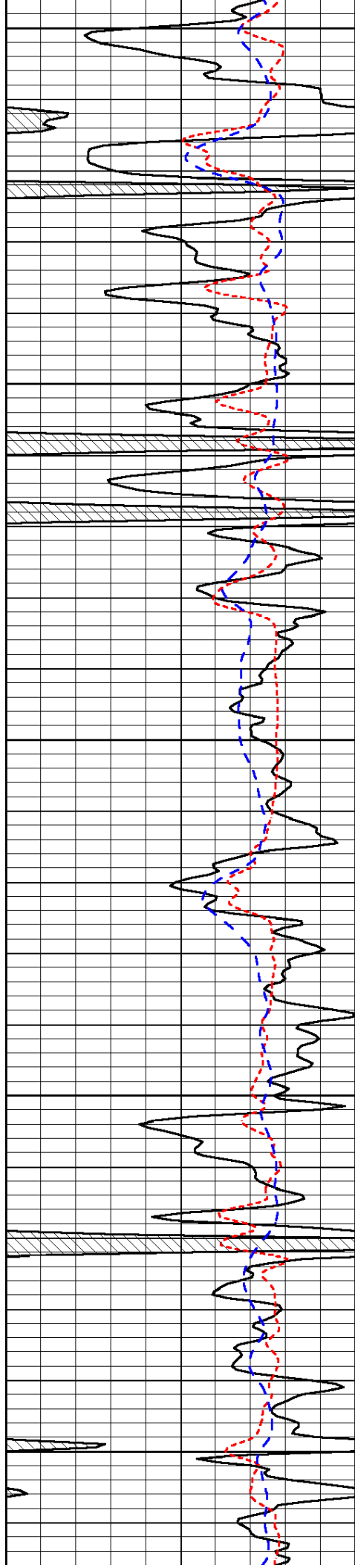


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-48

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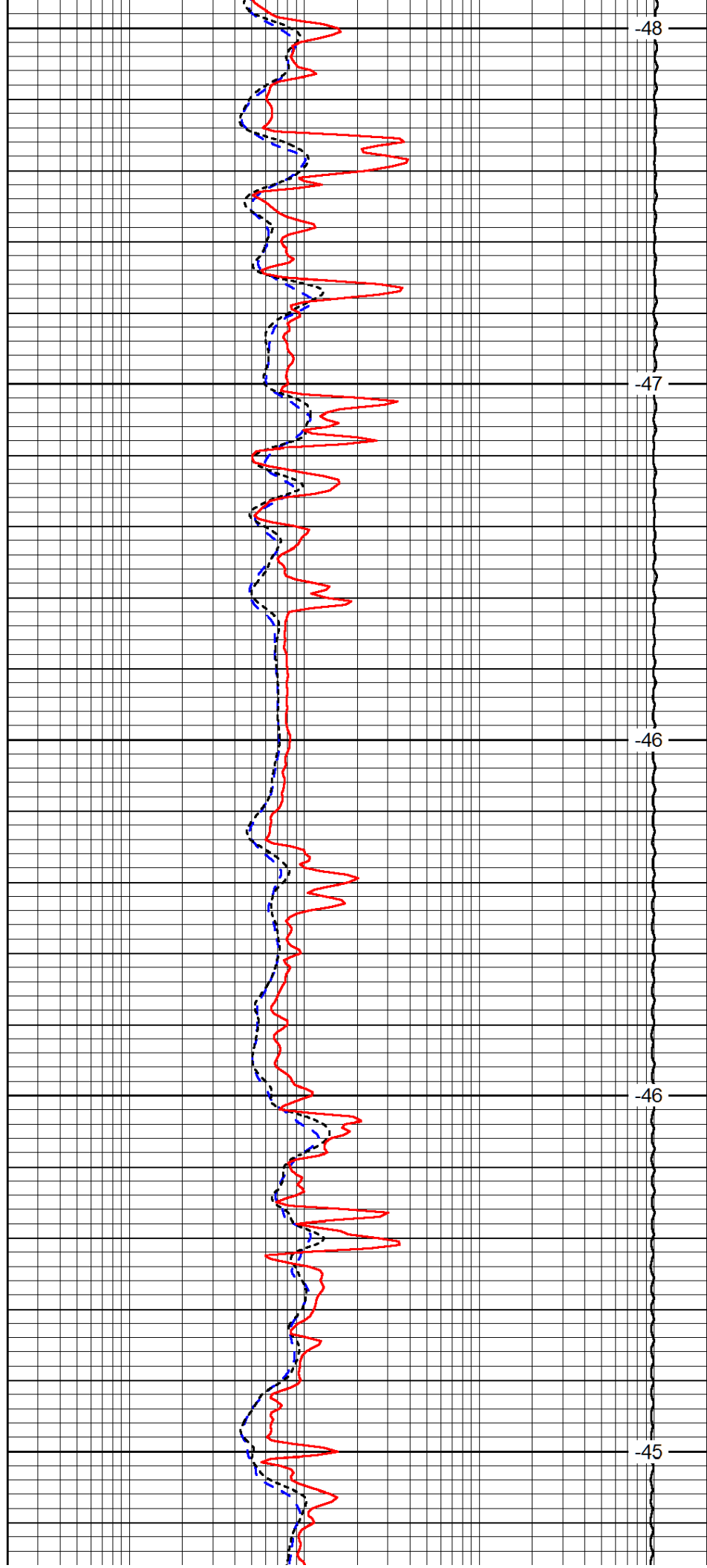
1800

1850

1900

1950

2000



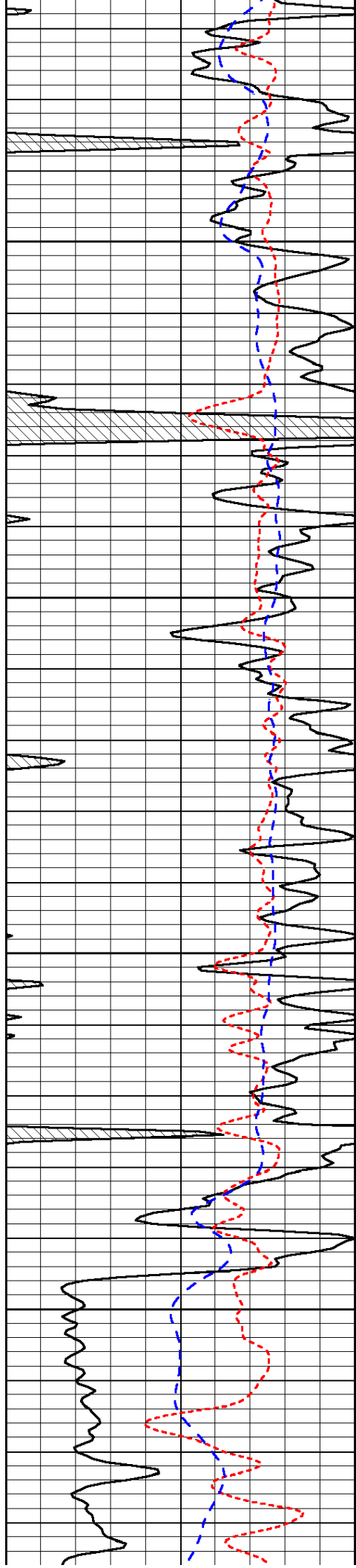
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-47

-46

-46

-45

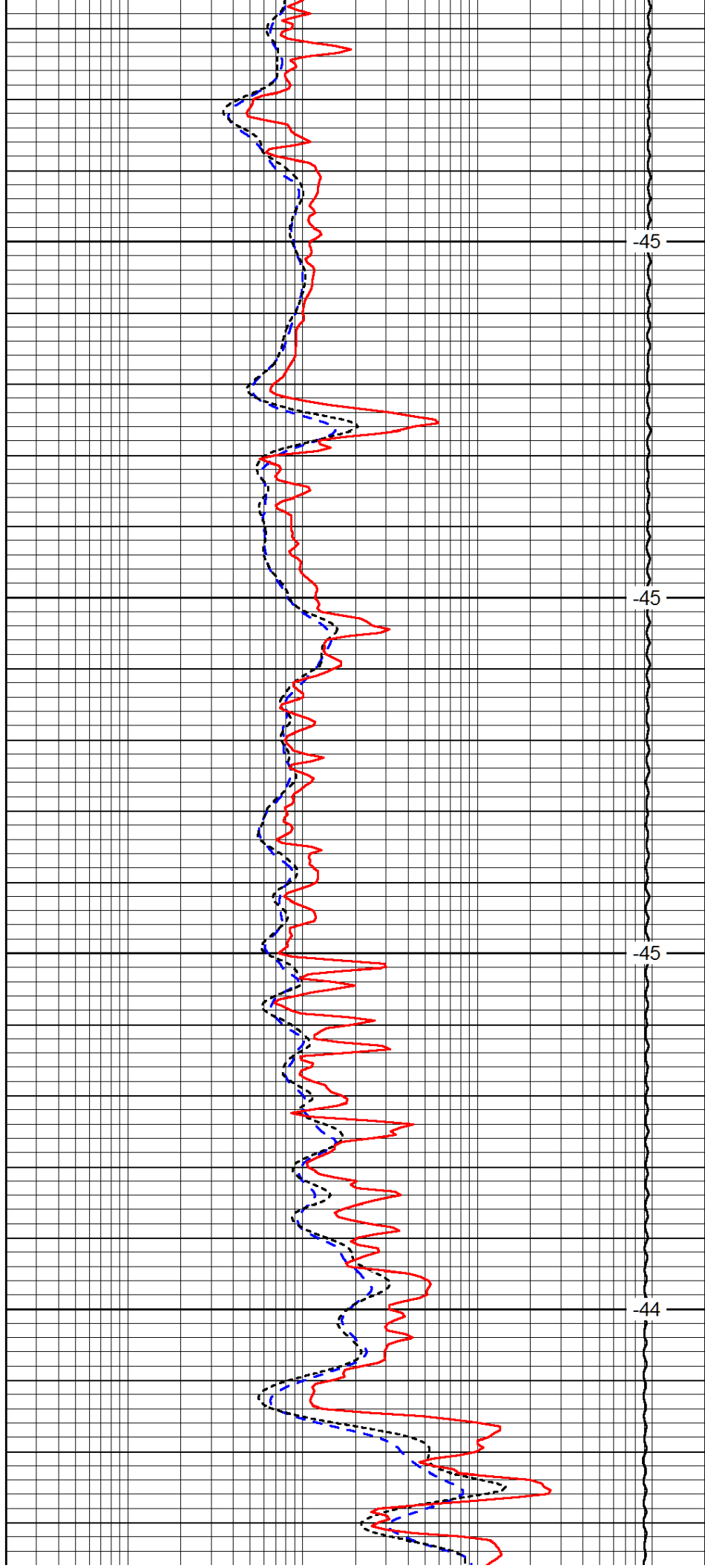


2050

2100

2150

2200

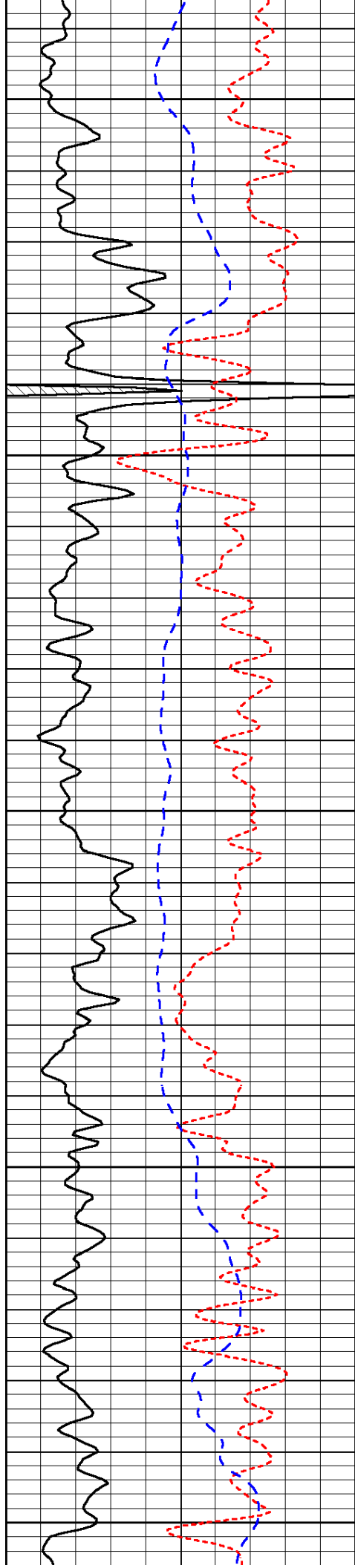


-45

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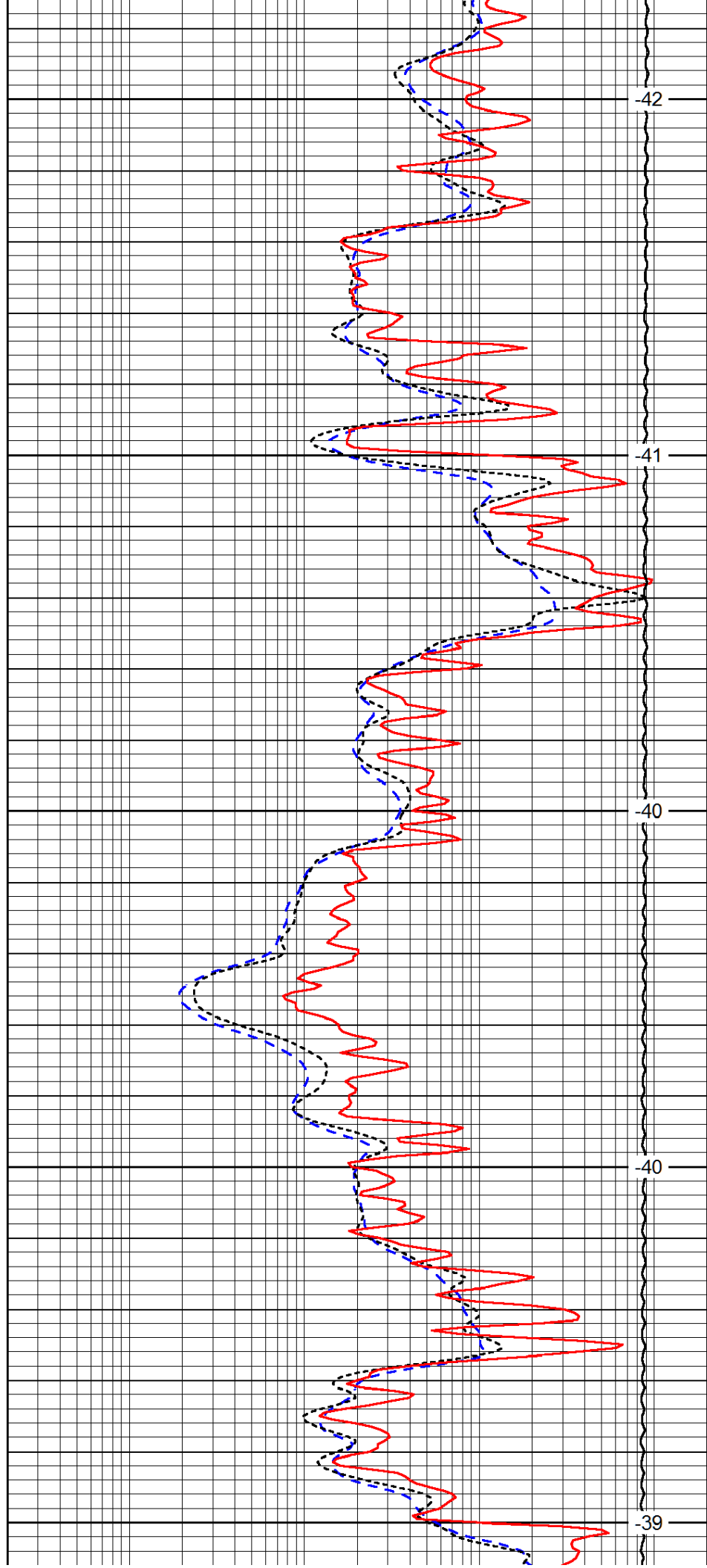
2250

2300

2350

2400

2450



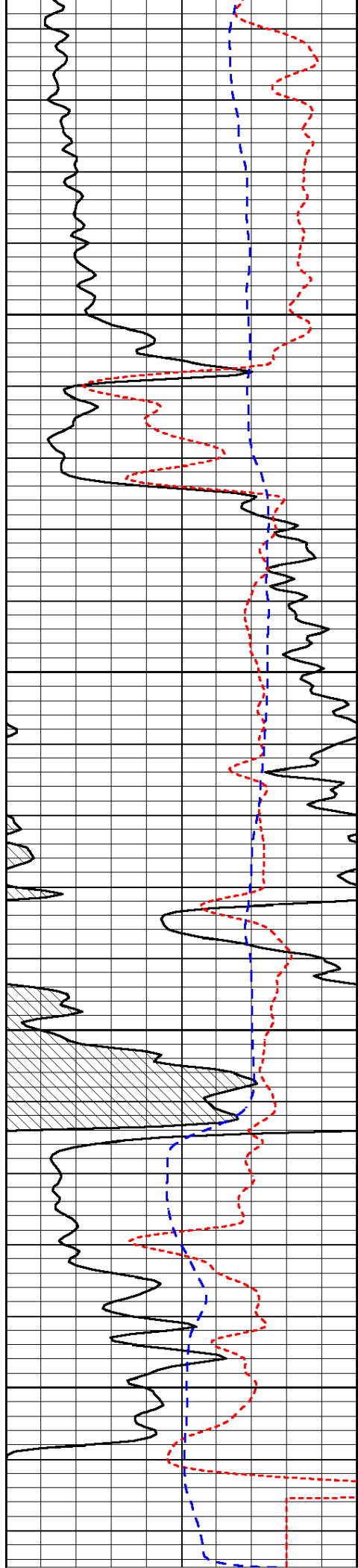
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-40

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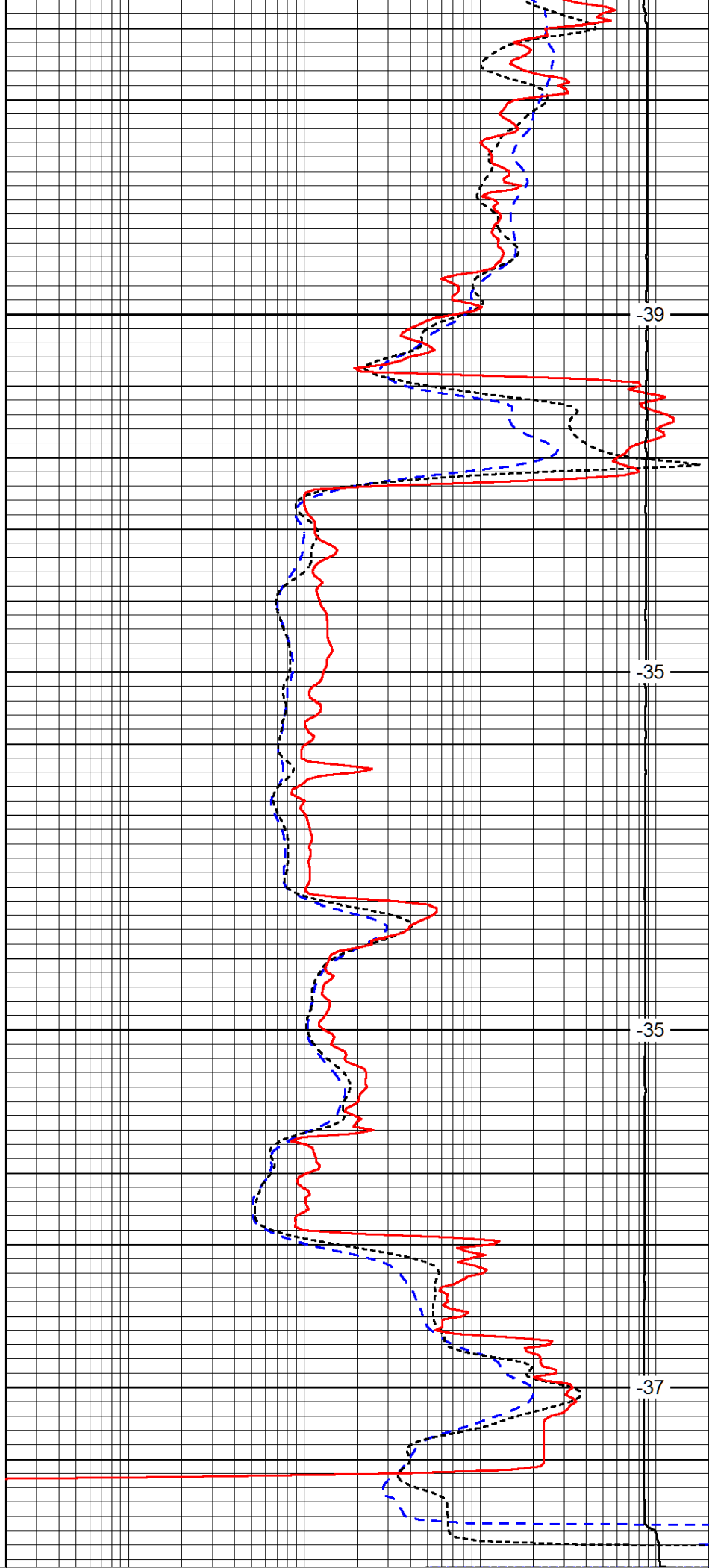


2500

2550

2600

2650



-39

-35

-35

-37

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
		LSPD (ft/min)