



DIGITAL LOG (785) 625-3858

Dual Induction Log

API No.

15-015-23,939-00-00

Company Range Oil Company, Inc.

Well Joseph B #7

Field Pierce NW

County Butler State Kansas

Location 900' FSL & 660' FWL

Sec: 18 Twp: 25 S Rge: 4 E

Permanent Datum Ground Level Elevation 1294
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL

Elevation
K.B. 1304
D.F. 1294
G.L. 1294

Date 5/21/2012

Run Number One

Depth Driller 2730

Depth Logger 2729

Bottom Logged Interval 2727

Top Log Interval 200

Casing Driller 8.625 @ 236

Casing Logger 235

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1,100

Density / Viscosity 9.3 58

pH / Fluid Loss 9.0 8.2

Source of Sample Flowline

Rm @ Meas. Temp 1.1 @ 58

Rmf @ Meas. Temp .83 @ 58

Rmc @ Meas. Temp 1.49 @ 58

Source of Rmf / Rmc Charts

Rm @ BHT .61 @ 105

Operating Rig Time 4 1/2 Hours

Max Rec. Temp. F 105

Equipment Number 91

Location Hays

Recorded By K. Bange

Witnessed By Roger Martin

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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

Potwin, 5 S on Diamond rd to 30 rd,
1 W to Santa Fe Lake rd, 200' N,
NE into

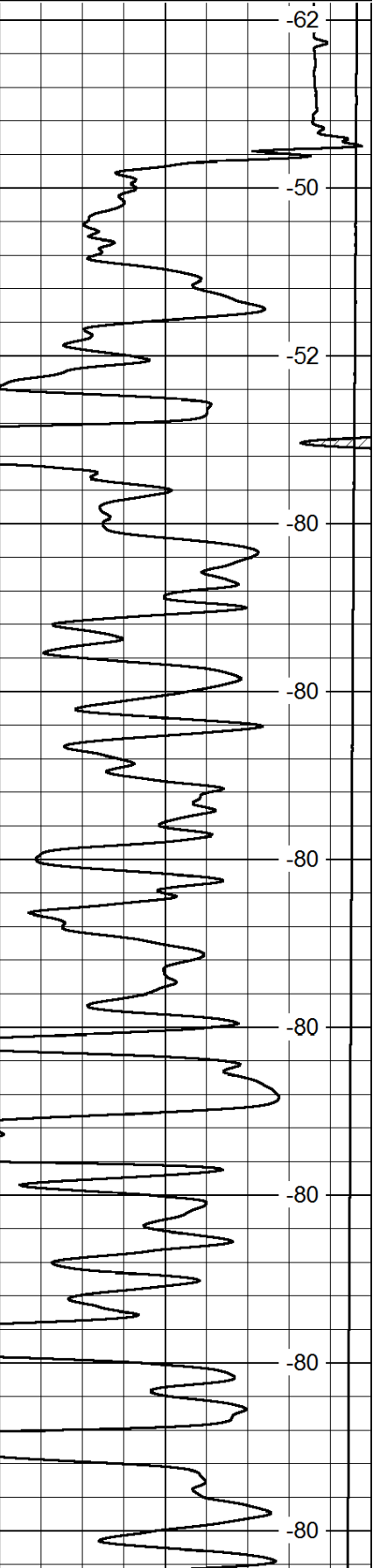
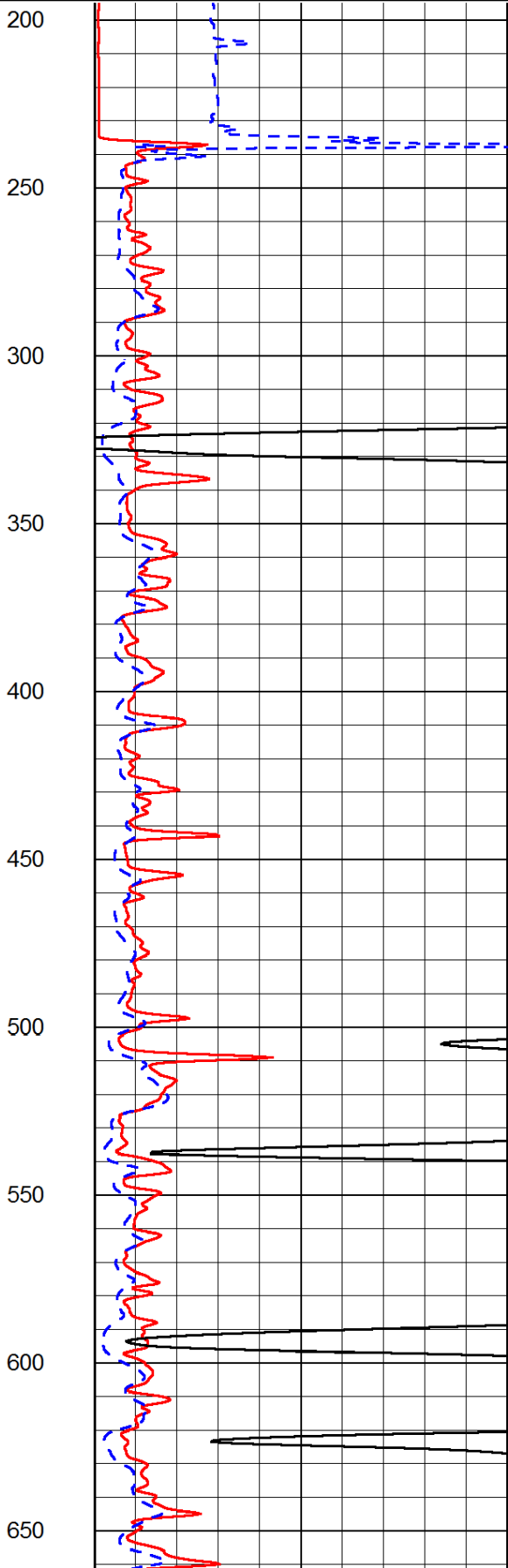
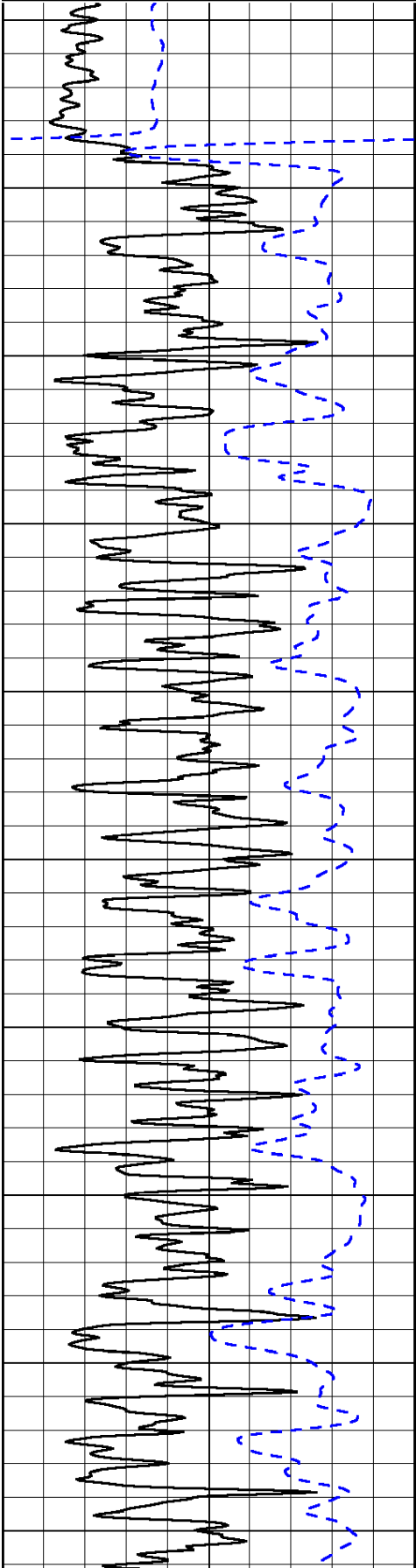
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Presentation Format: dil2in
Dataset Creation: Mon May 21 12:52:10 2012
Charted by: Depth in Feet scaled 1:600

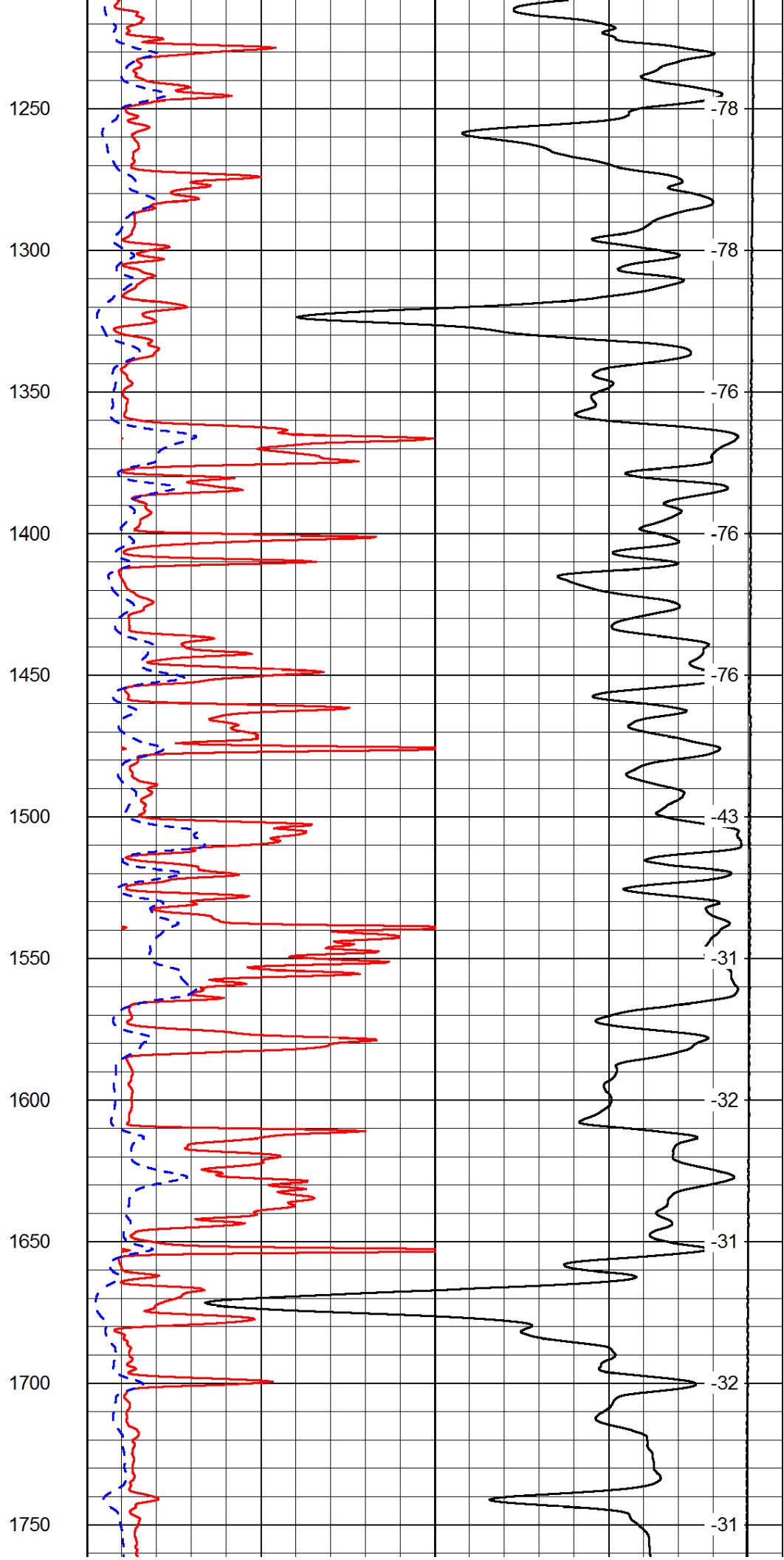
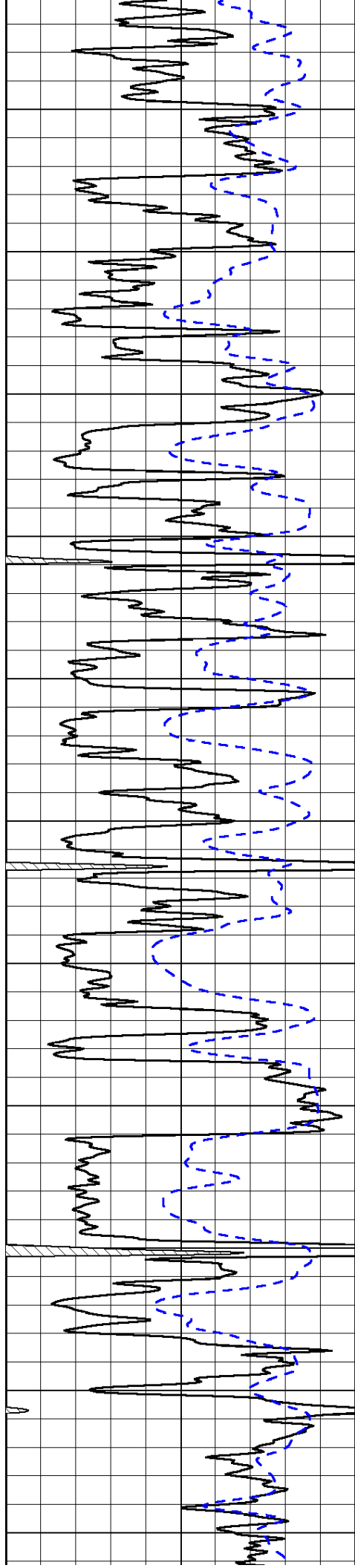
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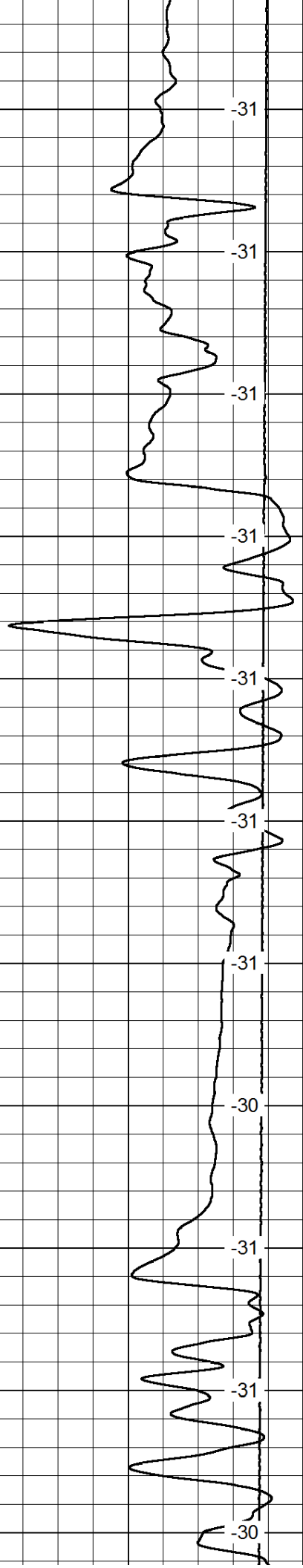
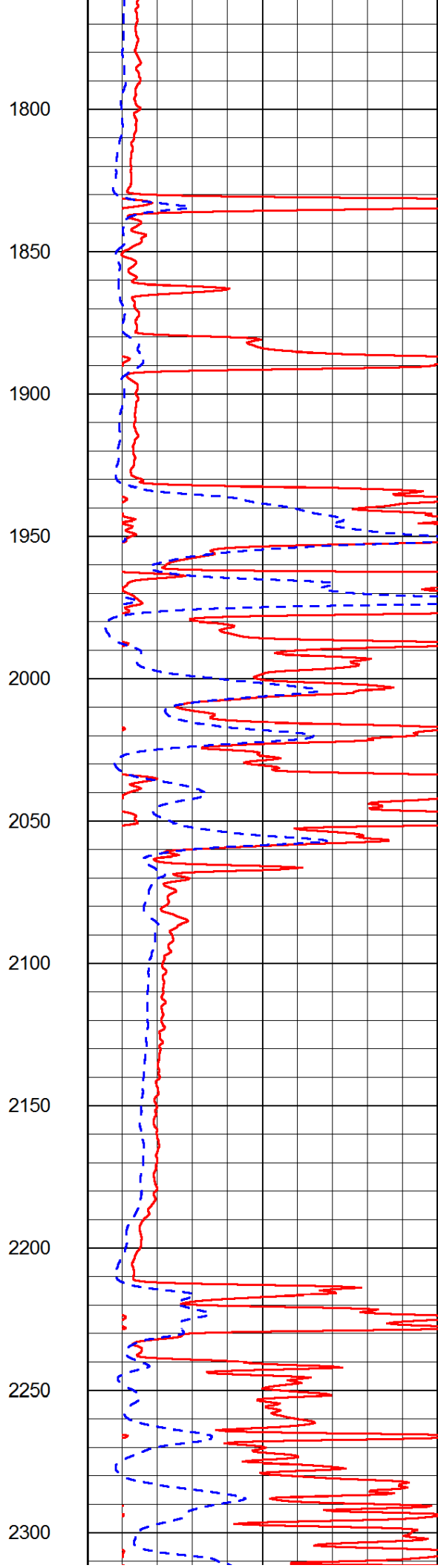
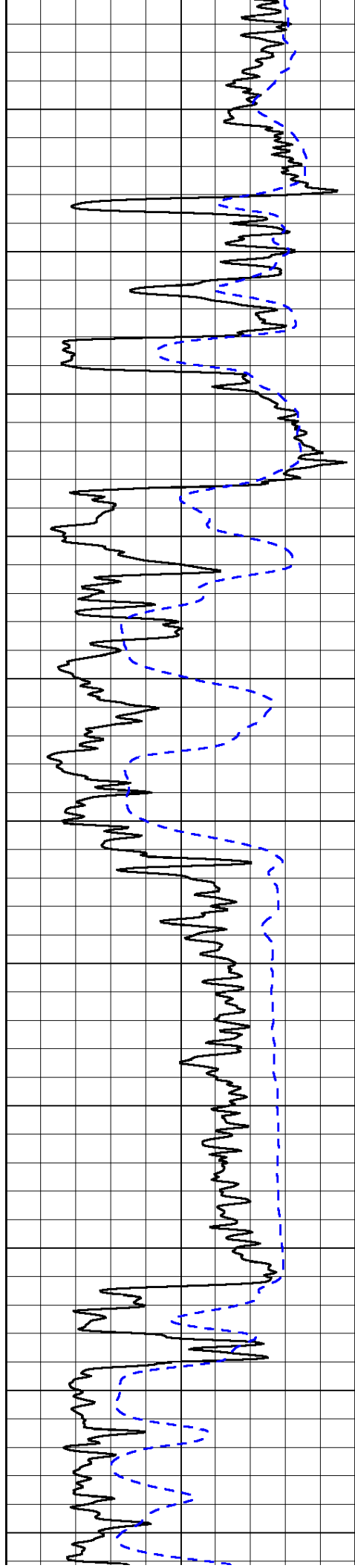
0	Gamma Ray	150
-200	SP (mV)	0

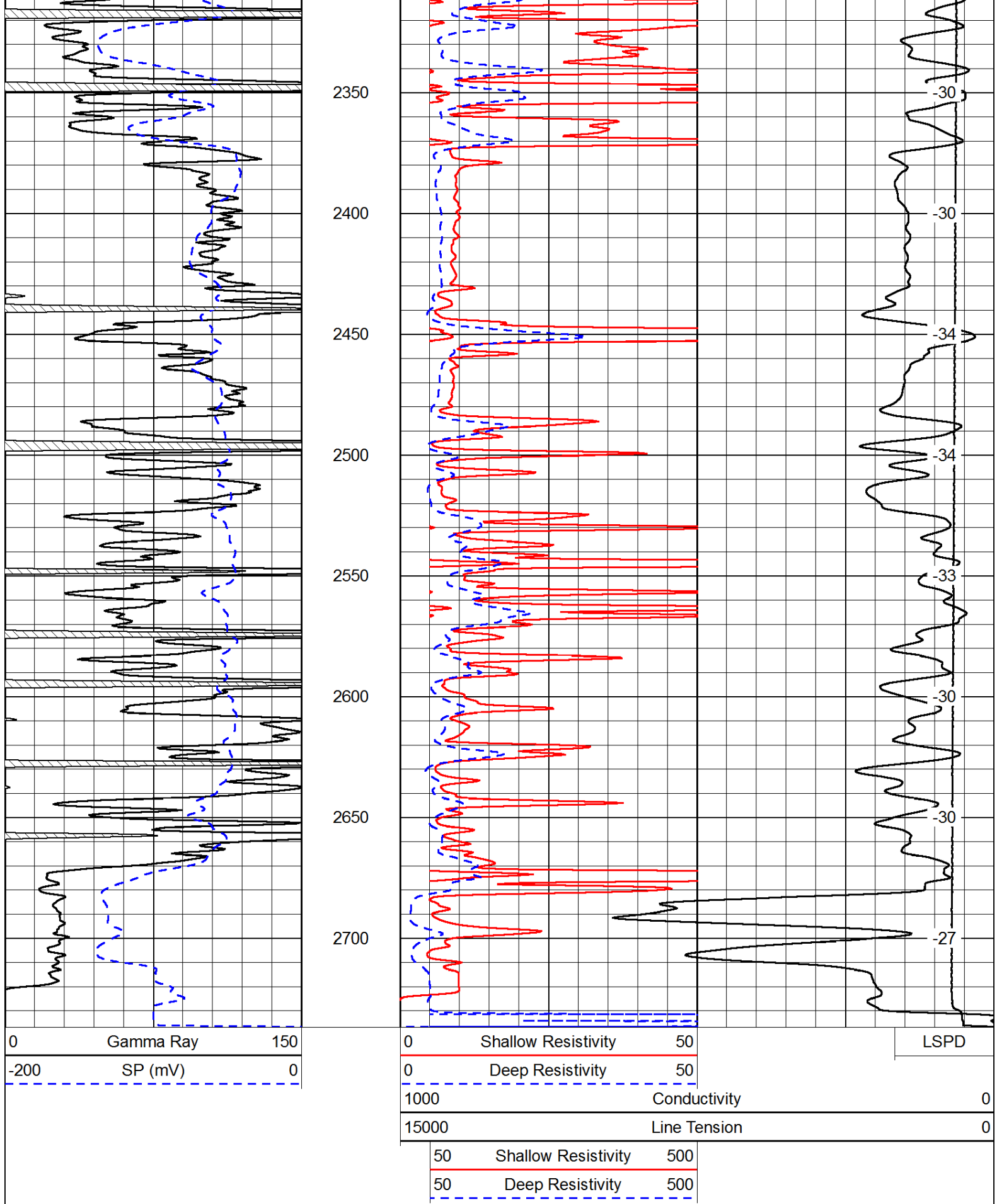
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

LSPD
0
0







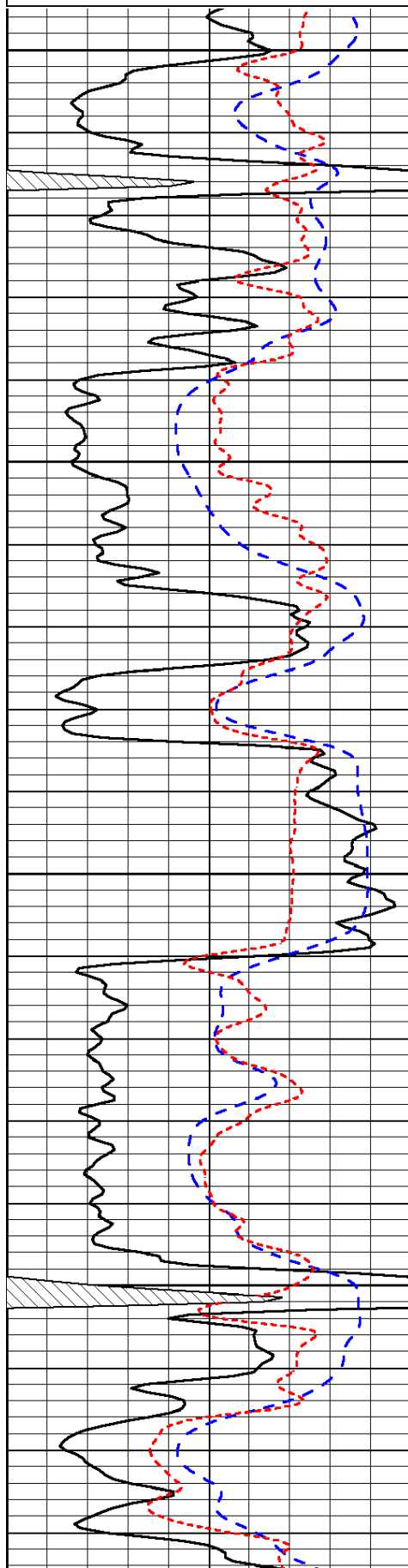


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 Dataset Pathname: dil/rangstak
 Presentation Format: dil
 Dataset Creation: Mon May 21 12:52:10 2012

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

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

LSPD

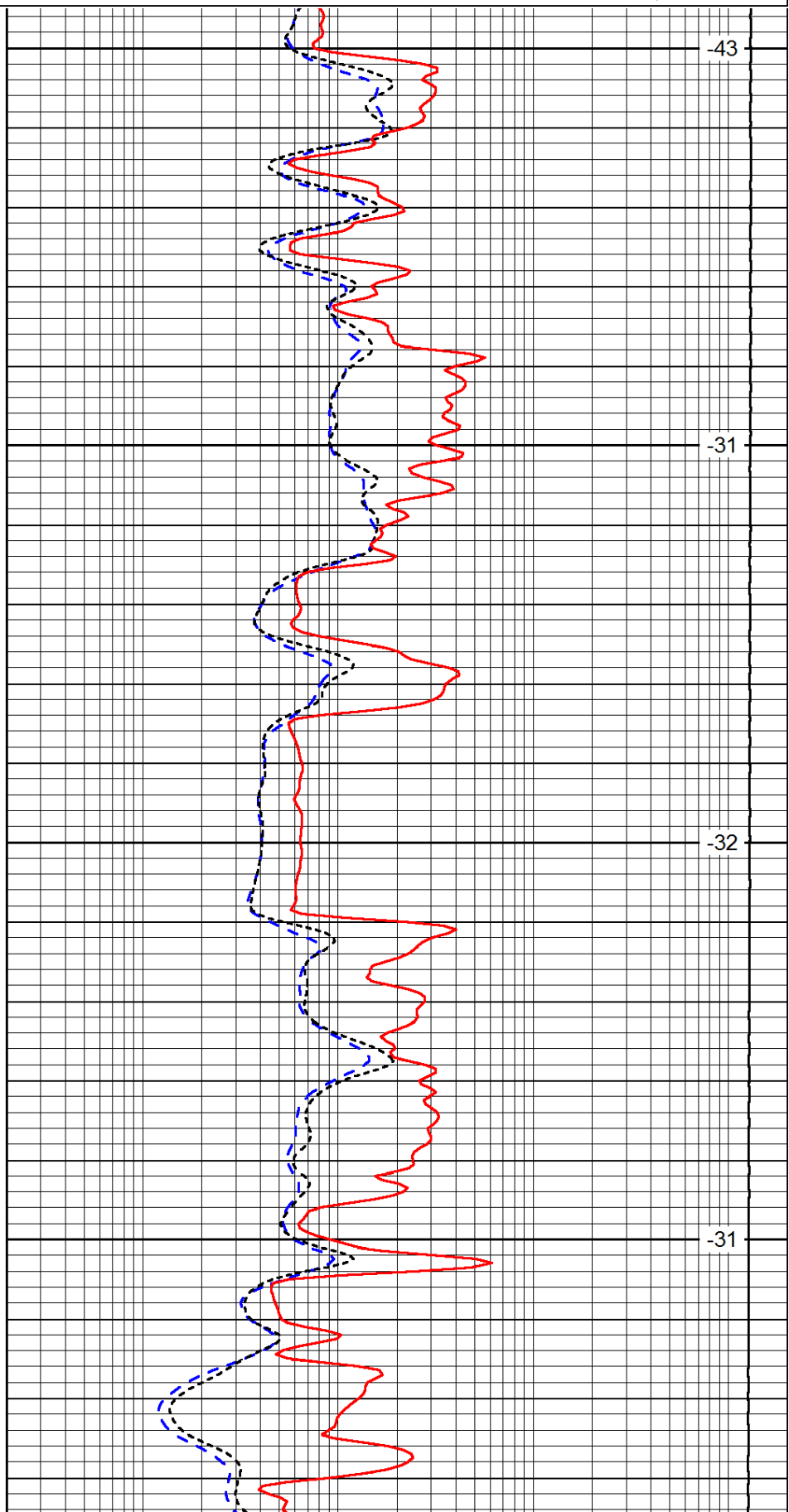


1500

1550

1600

1650

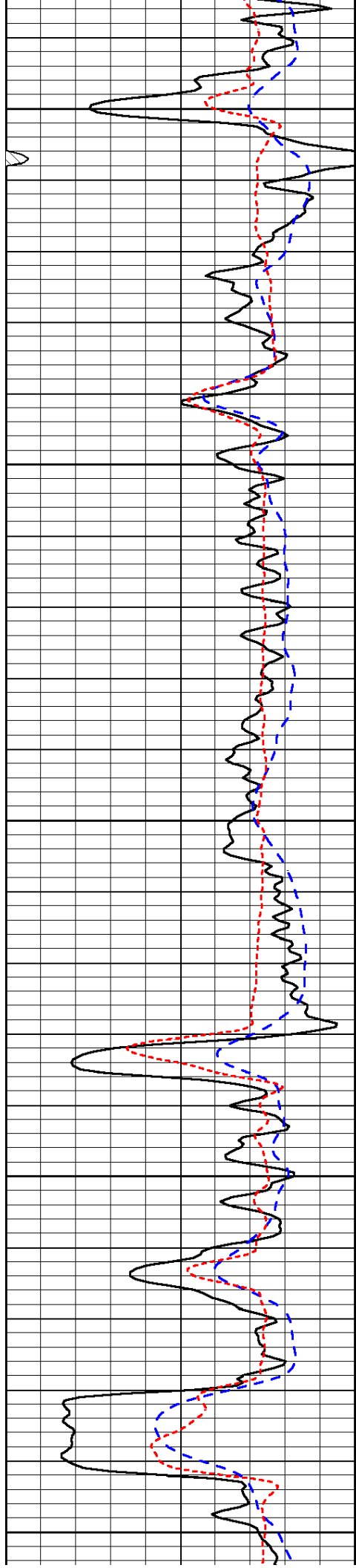


-43

-31

-32

-31



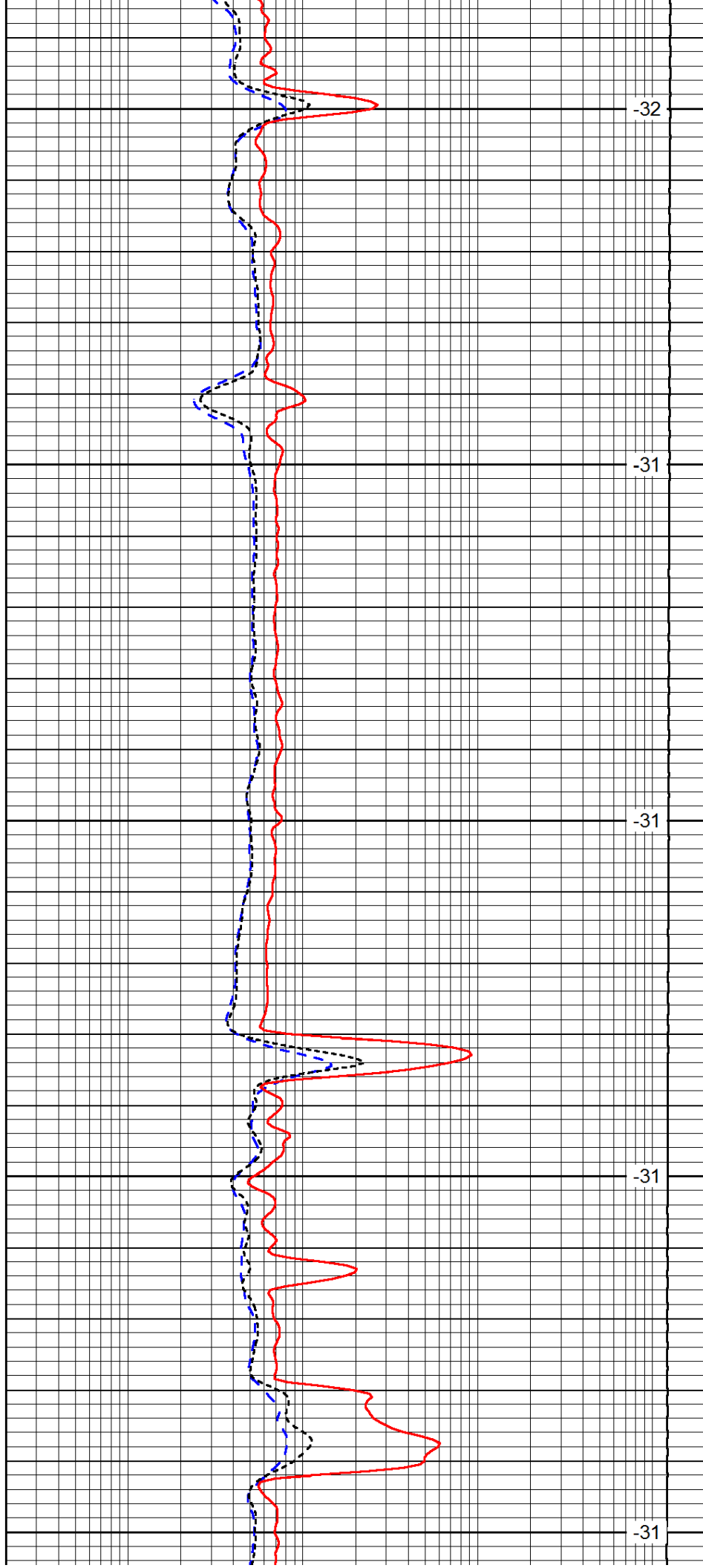
1700

1750

1800

1850

1900



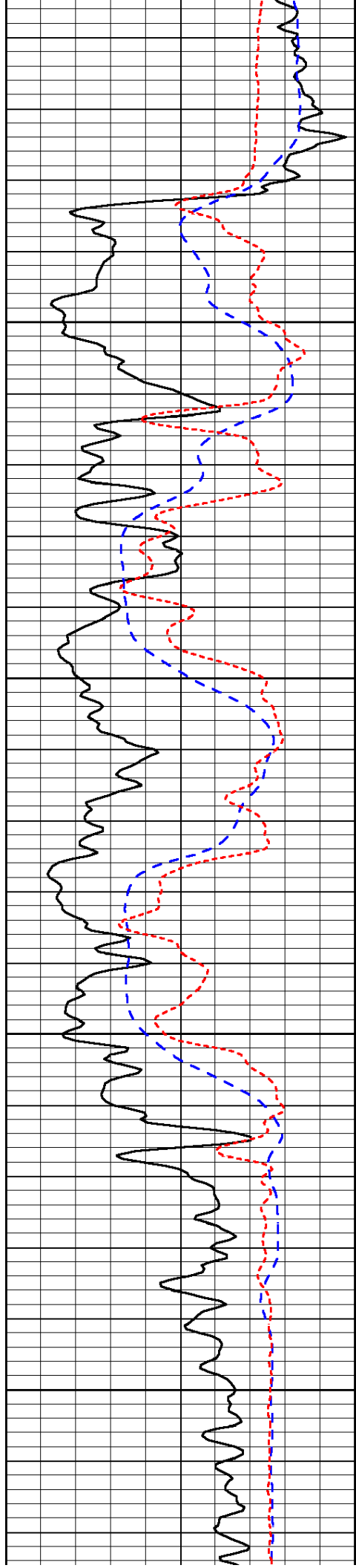
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-31

-31

-31

-31

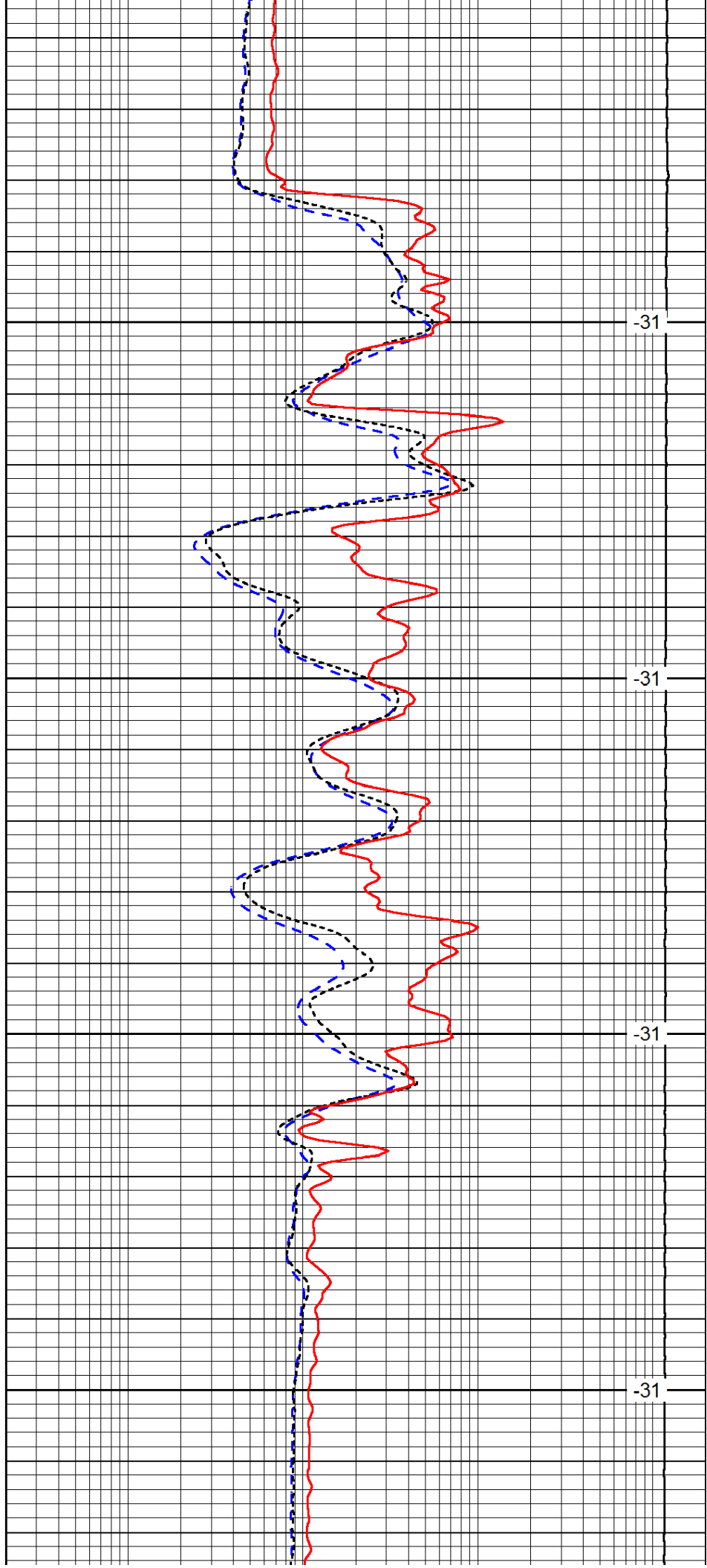


1950

2000

2050

2100

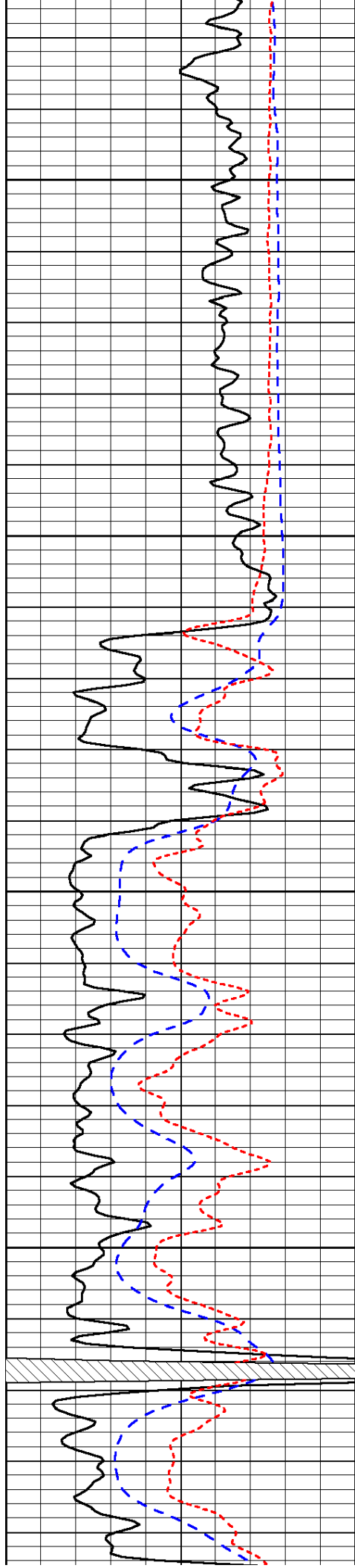


-31

-31

-31

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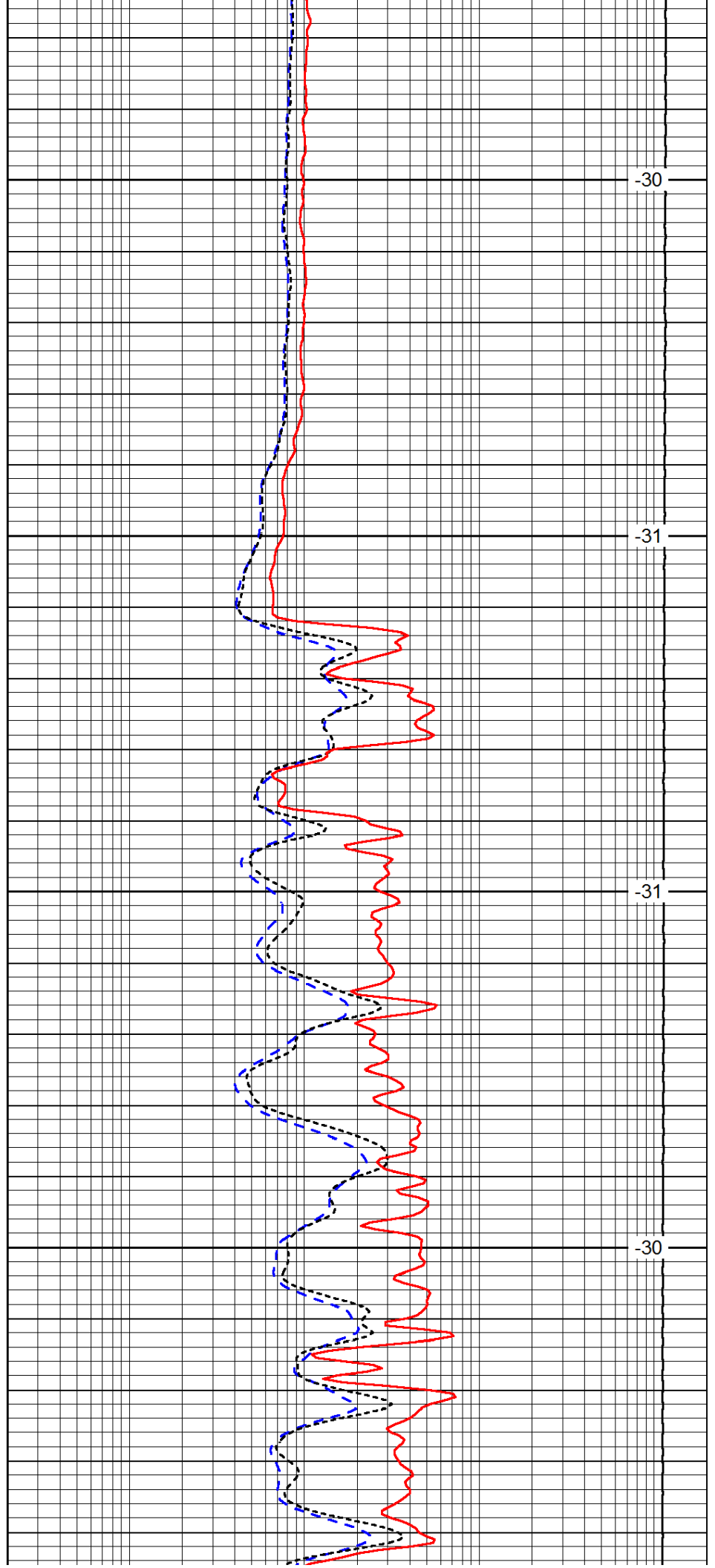


2150

2200

2250

2300

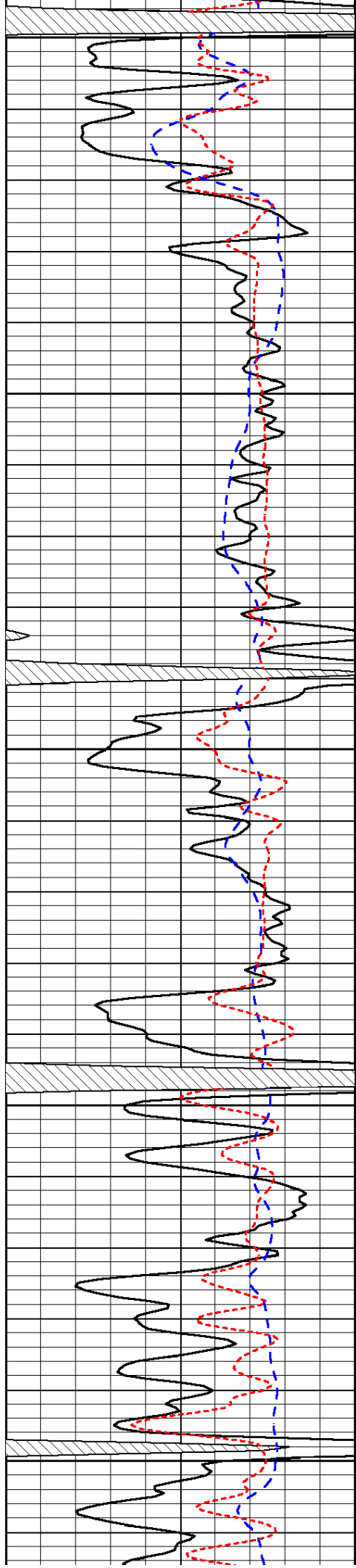


-30

-31

-31

-30



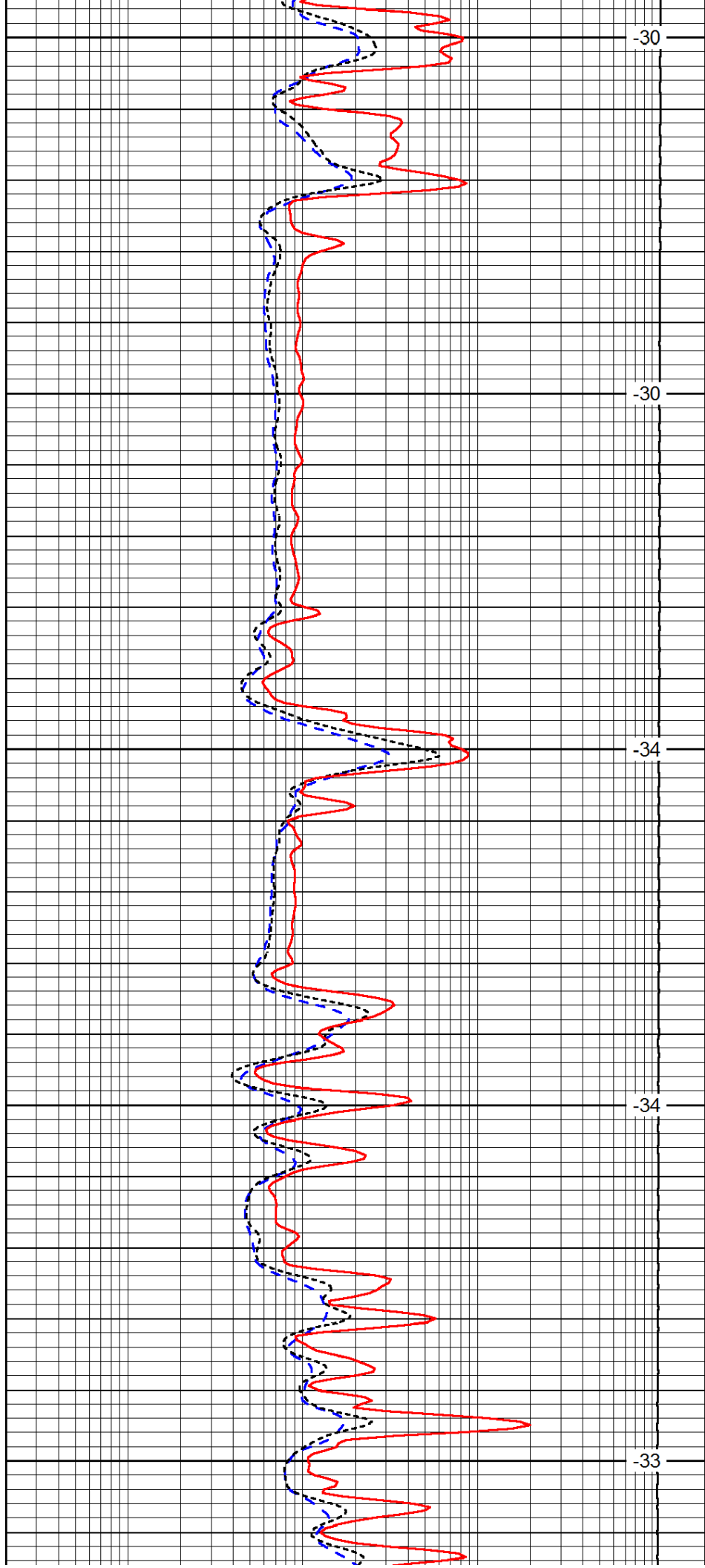
2350

2400

2450

2500

2550



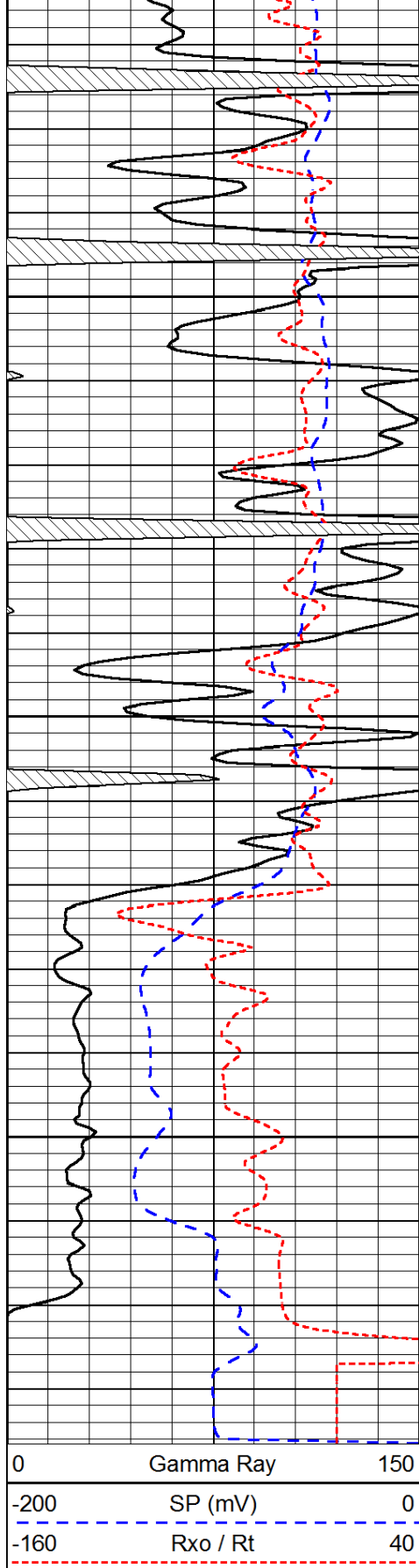
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-34

-34

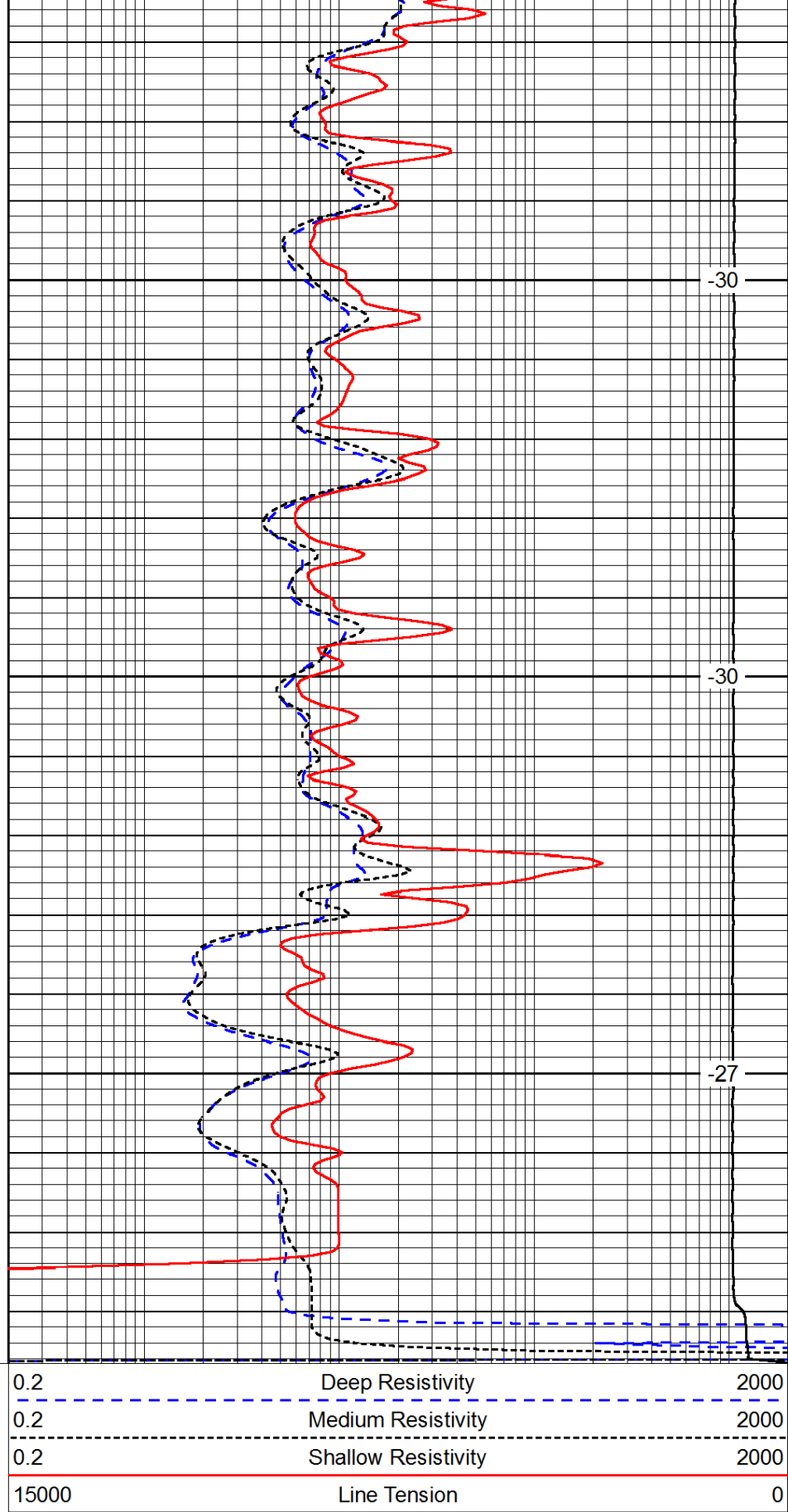
-33



2600

2650

2700



-30

-30

-27

LSPD