



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-009-26092-00-00

Company LB Exploration, Inc.

Well Otte #1

Field Wildcat

County Barton

State

Kansas

Location SE NW/NE NE
630' FNL & 690' FEL

Sec: 15

Twp: 19S

Rge: 14W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 1876

Log Measured From Kelly Bushing 13 Ft. Above Perm. Datum

K.B. 1889
D.F. 1876
G.L. 1876

Drilling Measured From Kelly Bushing

Elevation

Date 3/24/2015

Run Number One

Depth Driller 3625

Depth Logger 3620

Bottom Logged Interval 3619

Top Log Interval 850

Casing Driller 8.625 @ 866

Casing Logger 863

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 7000

Density / Viscosity 9.2 68

pH / Fluid Loss 8.0 10.4

Source of Sample Flowline

Rm @ Meas. Temp 0.46 @ 73

Rmf @ Meas. Temp 0.35 @ 73

Rmc @ Meas. Temp 0.62 @ 73

Source of Rmf / Rmc Charts

Rm @ BHT 0.30 @ 112

Operating Rig Time 5 Hours

Max Rec. Temp. F 112

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Steve Petermann

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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

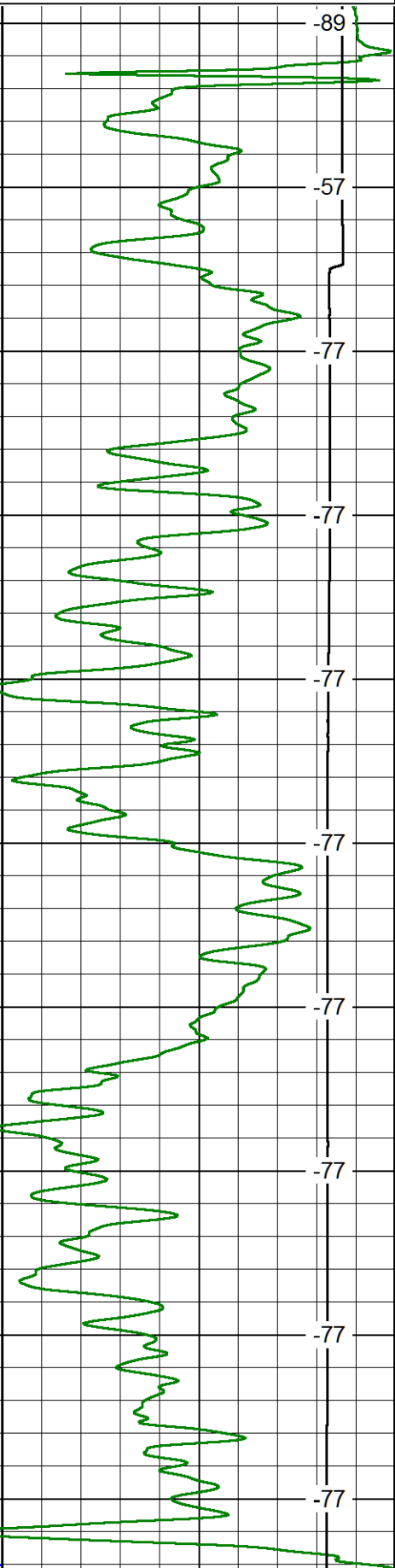
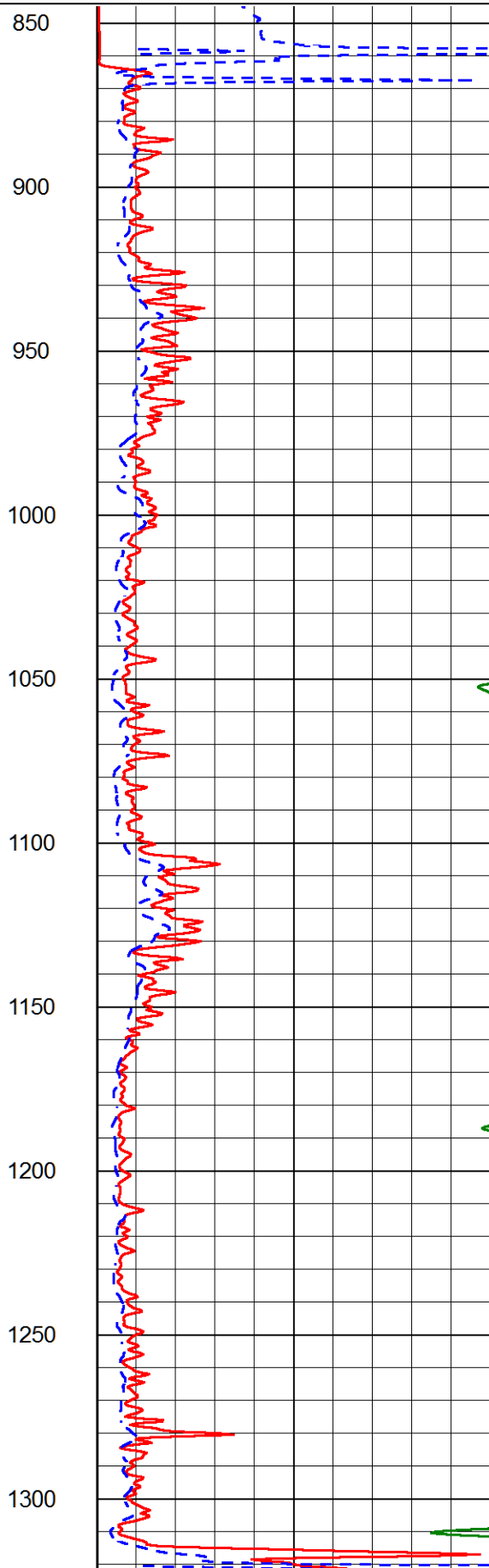
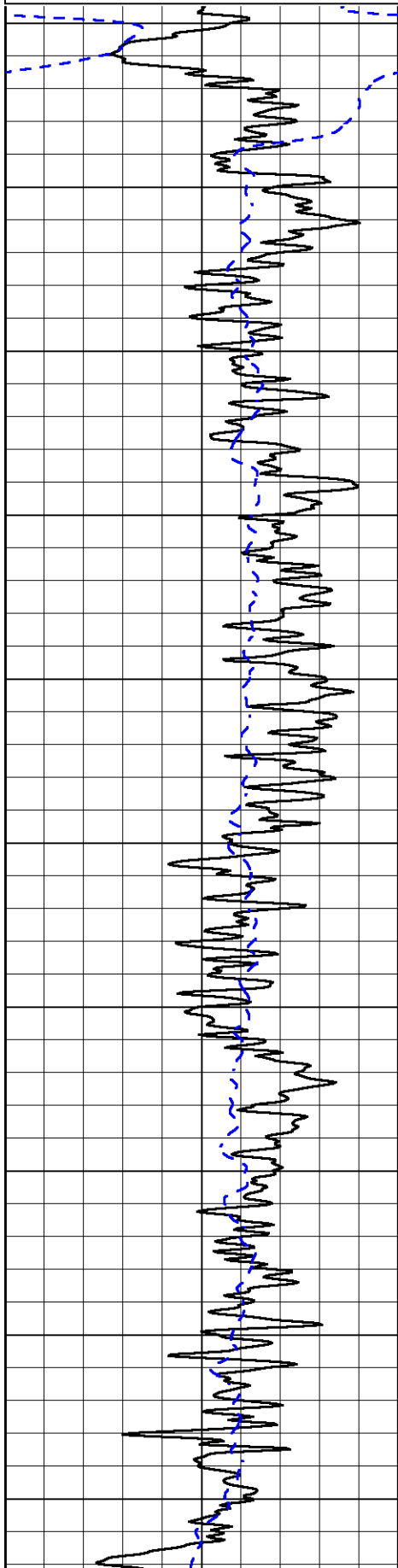
Thank you for using Pioneer Energy Services
785.625.3858

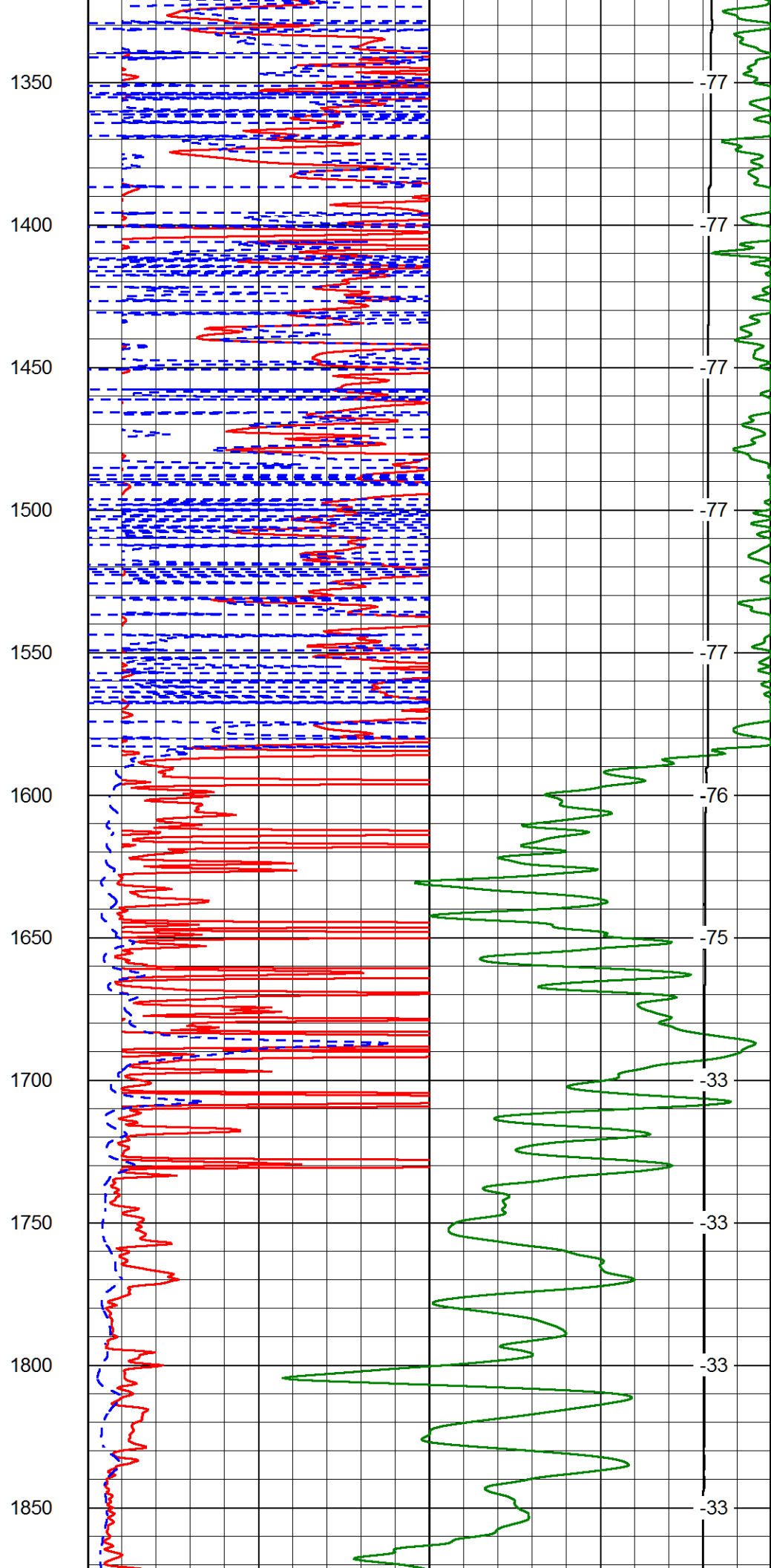
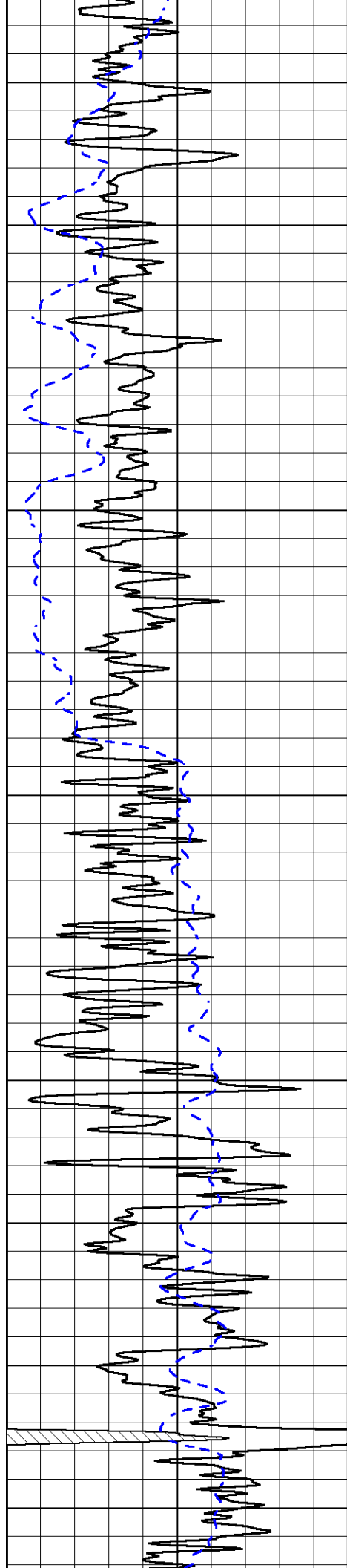
Great Bend KS, West to NW 40th Ave,
1/2 North, West Into

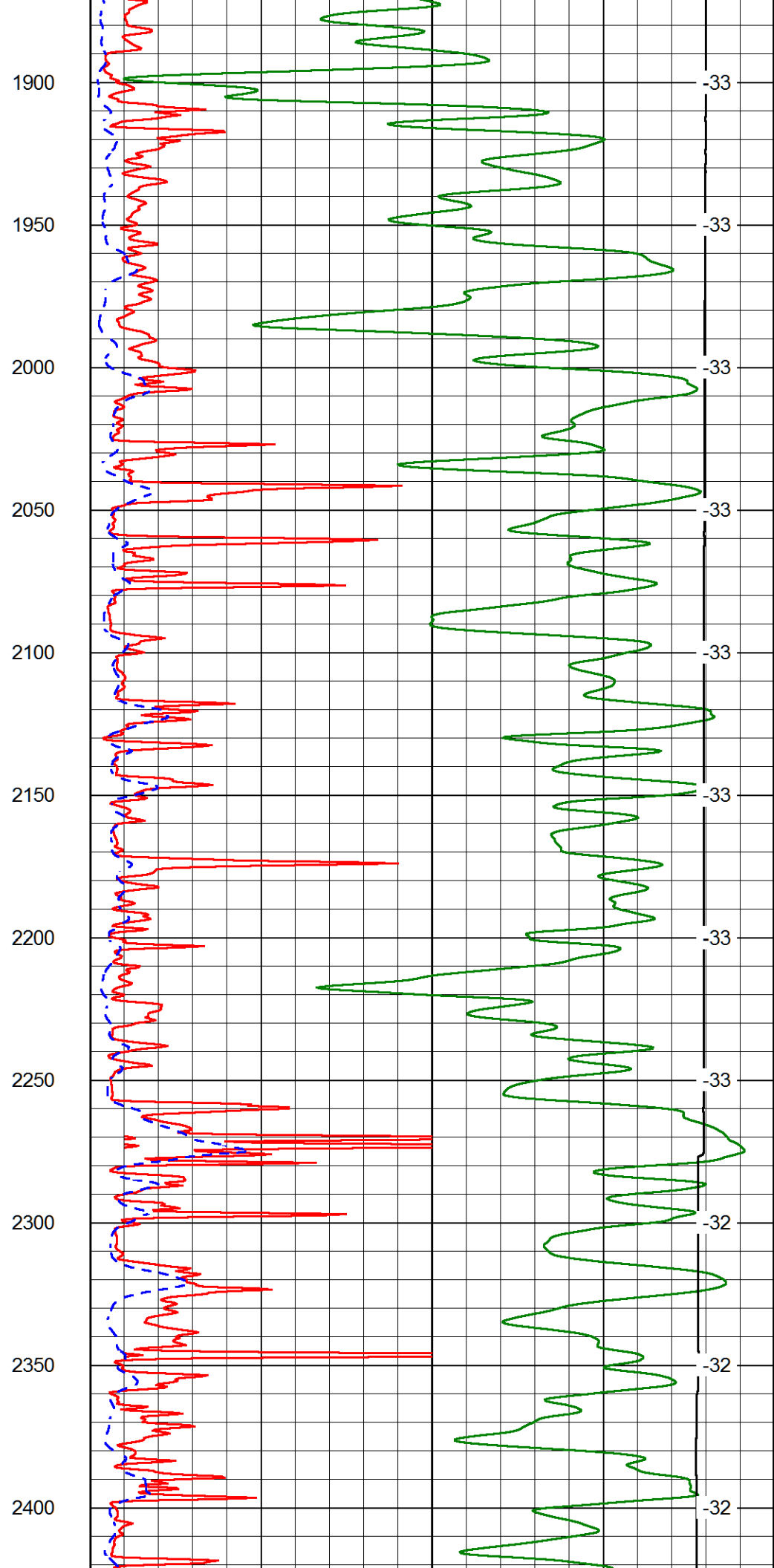
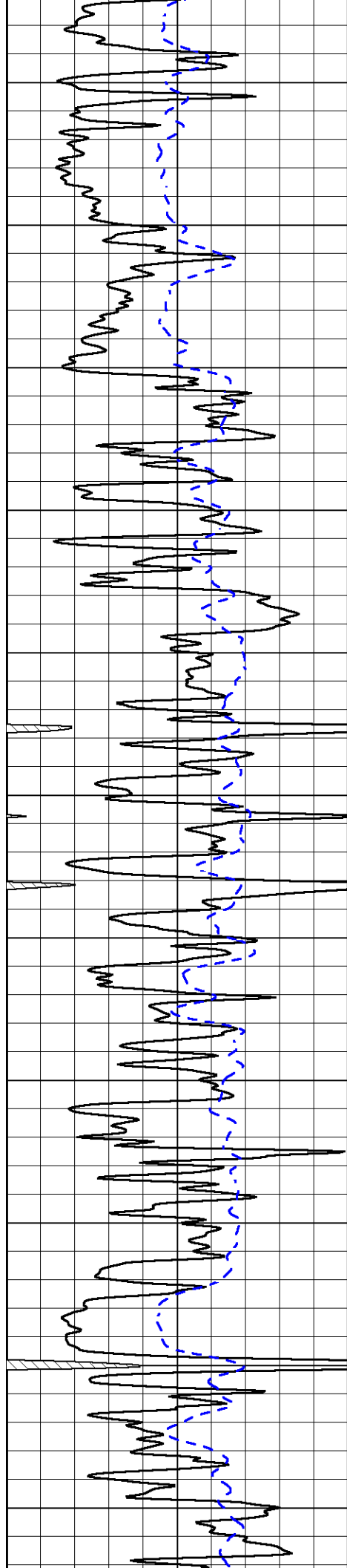
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Dataset Pathname DIL/lbstk
Presentation Format dil2in
Dataset Creation Tue Mar 24 07:55:12 2015
Charted by Depth in Feet scaled 1:600

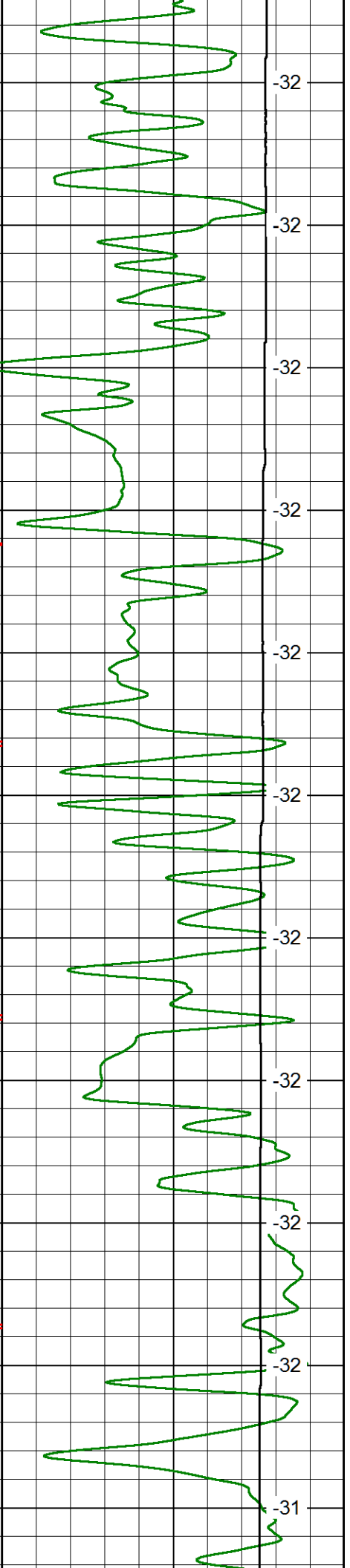
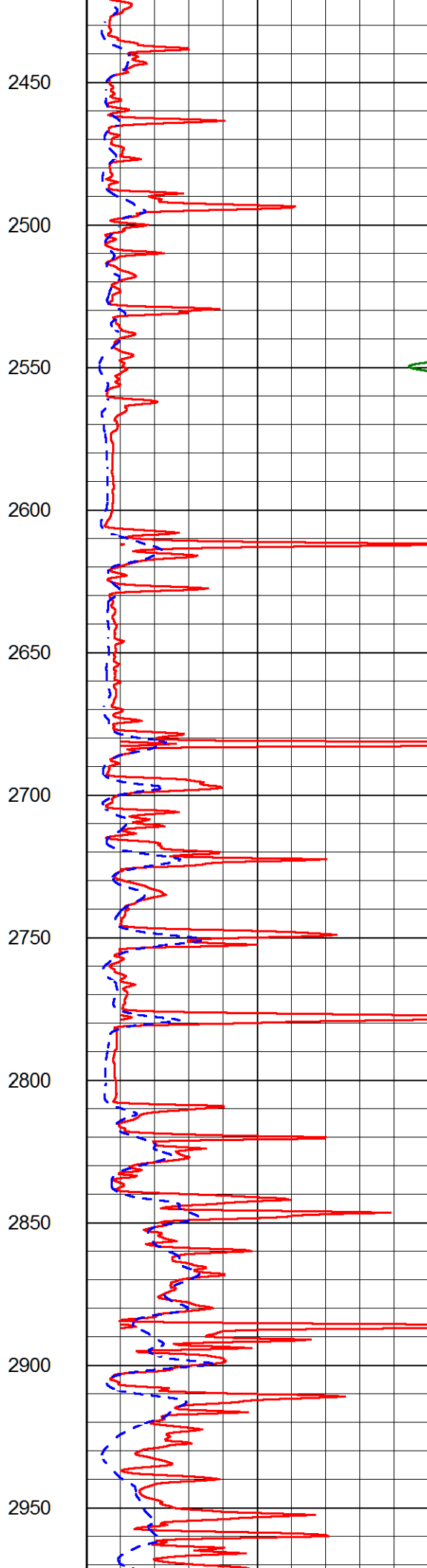
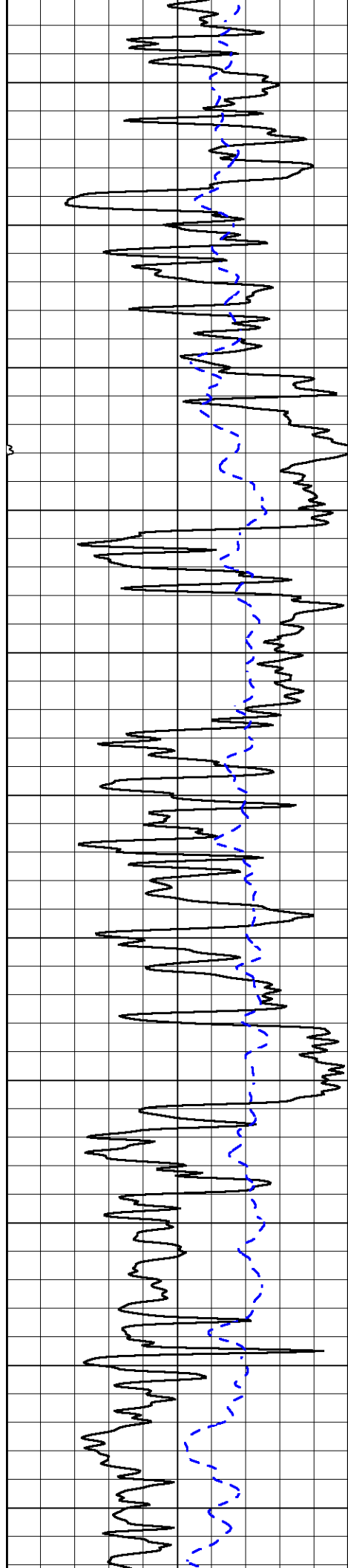
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-200	SP (mV)	0

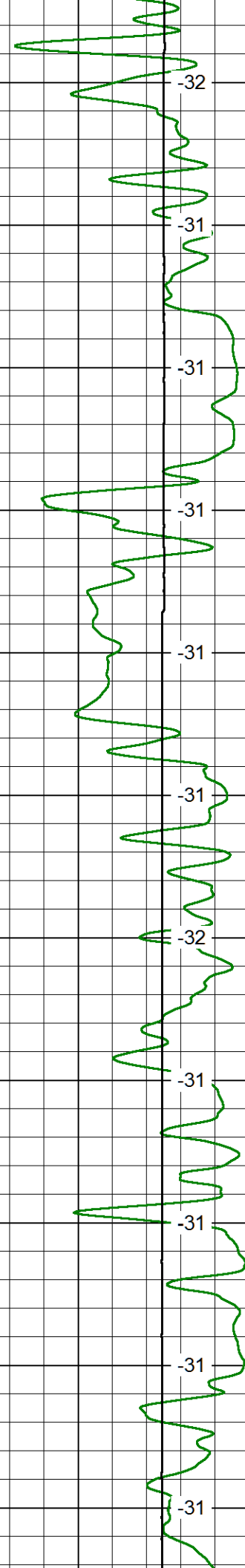
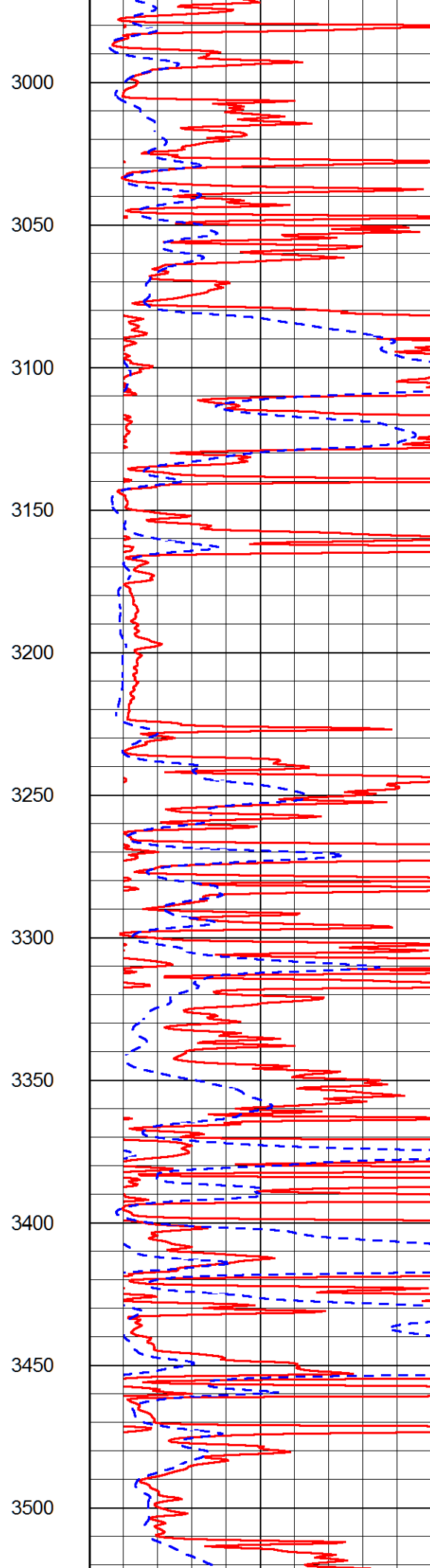
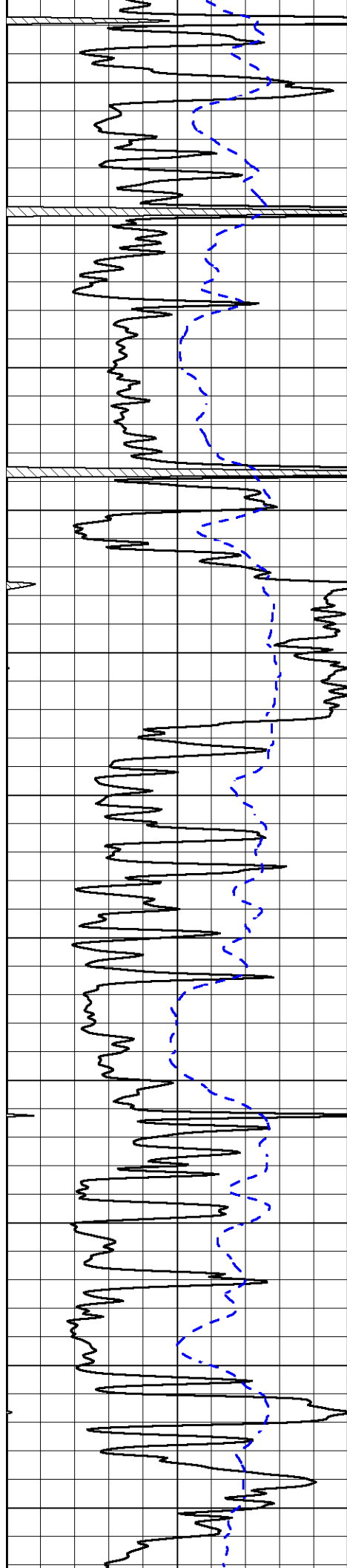
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15000	Line Tension	0
0	Shallow Resistivity	50
0	Deep Resistivity	50
50	Shallow Resistivity	500
50	Deep Resistivity	500

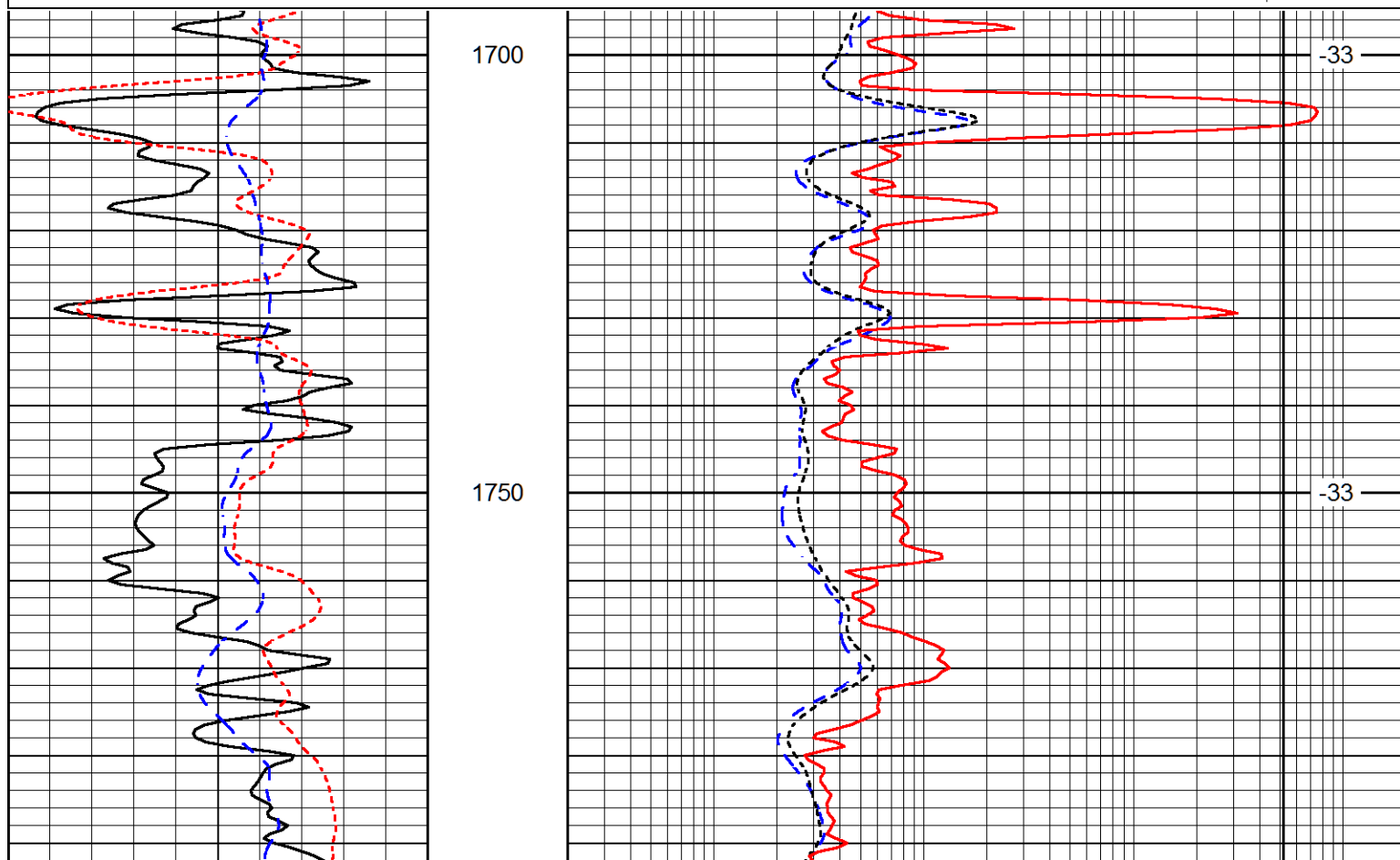
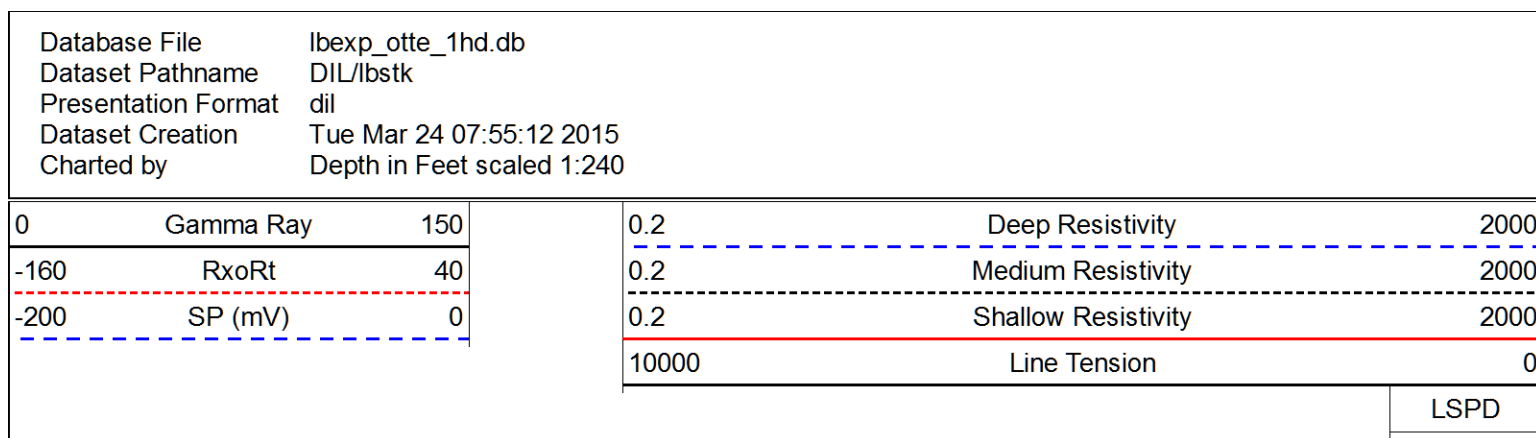
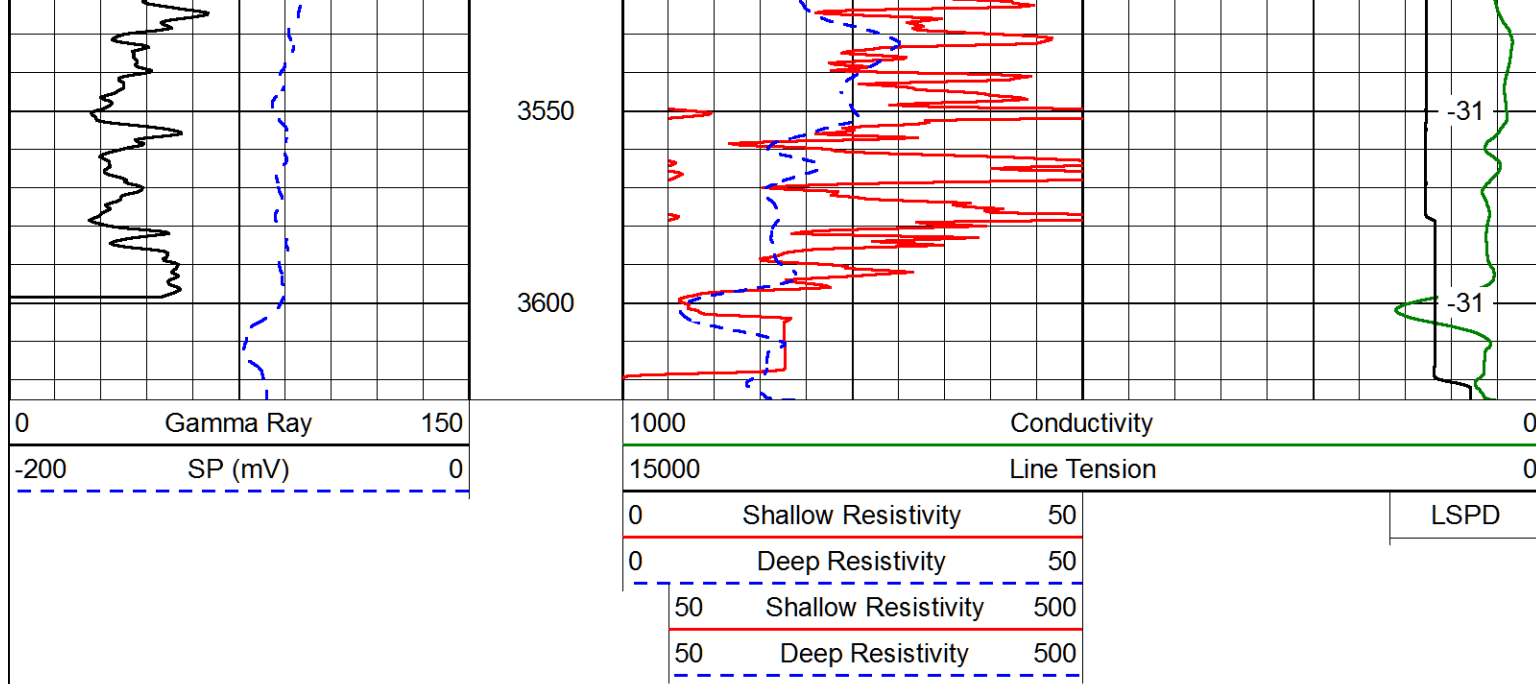


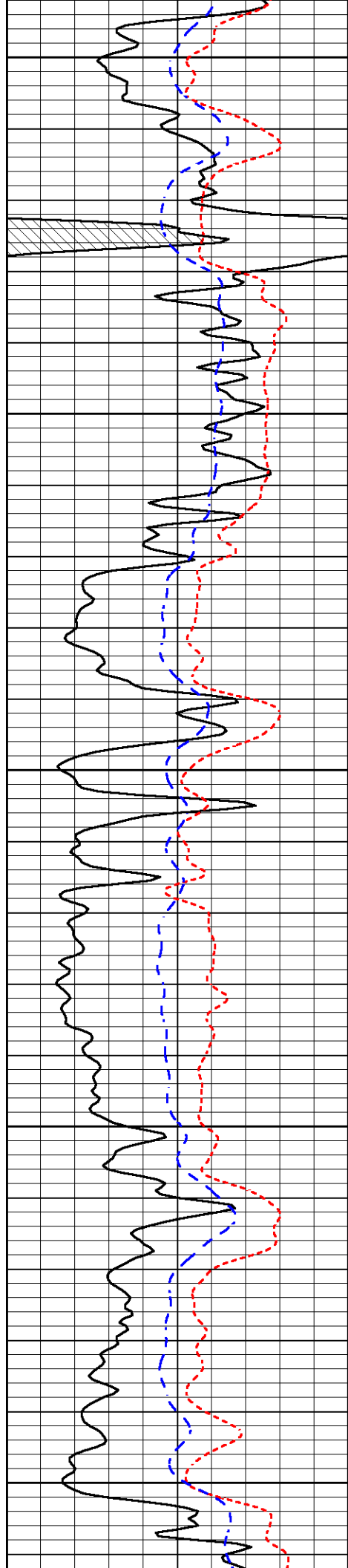












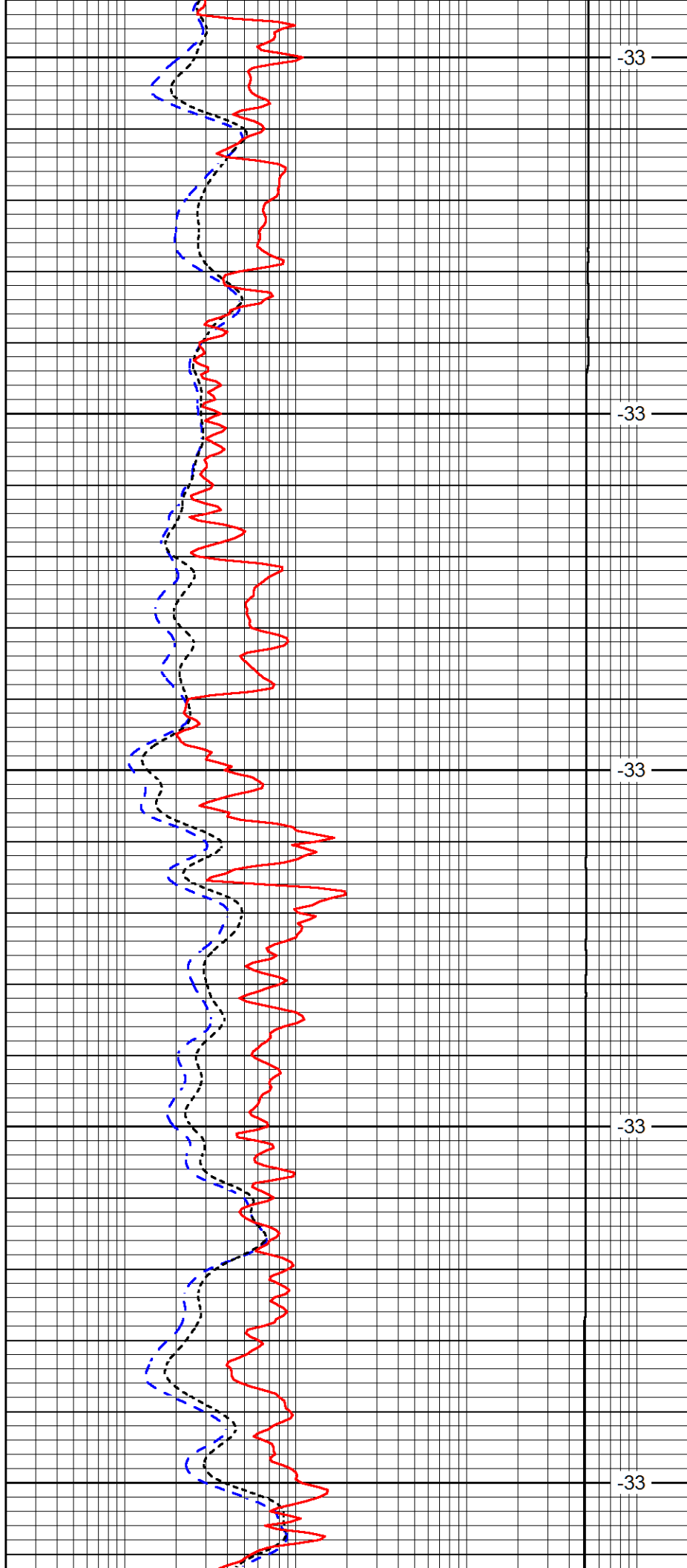
1800

1850

1900

1950

2000



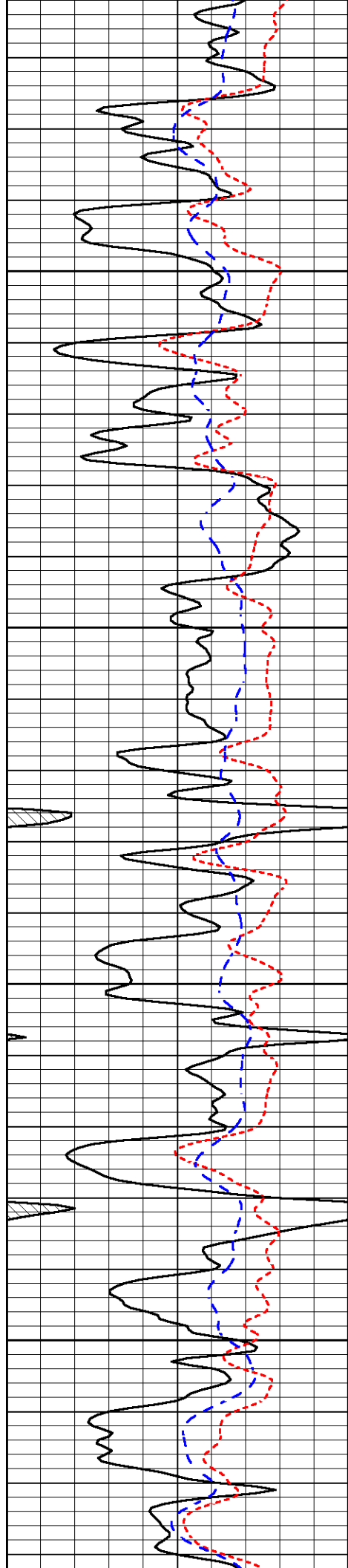
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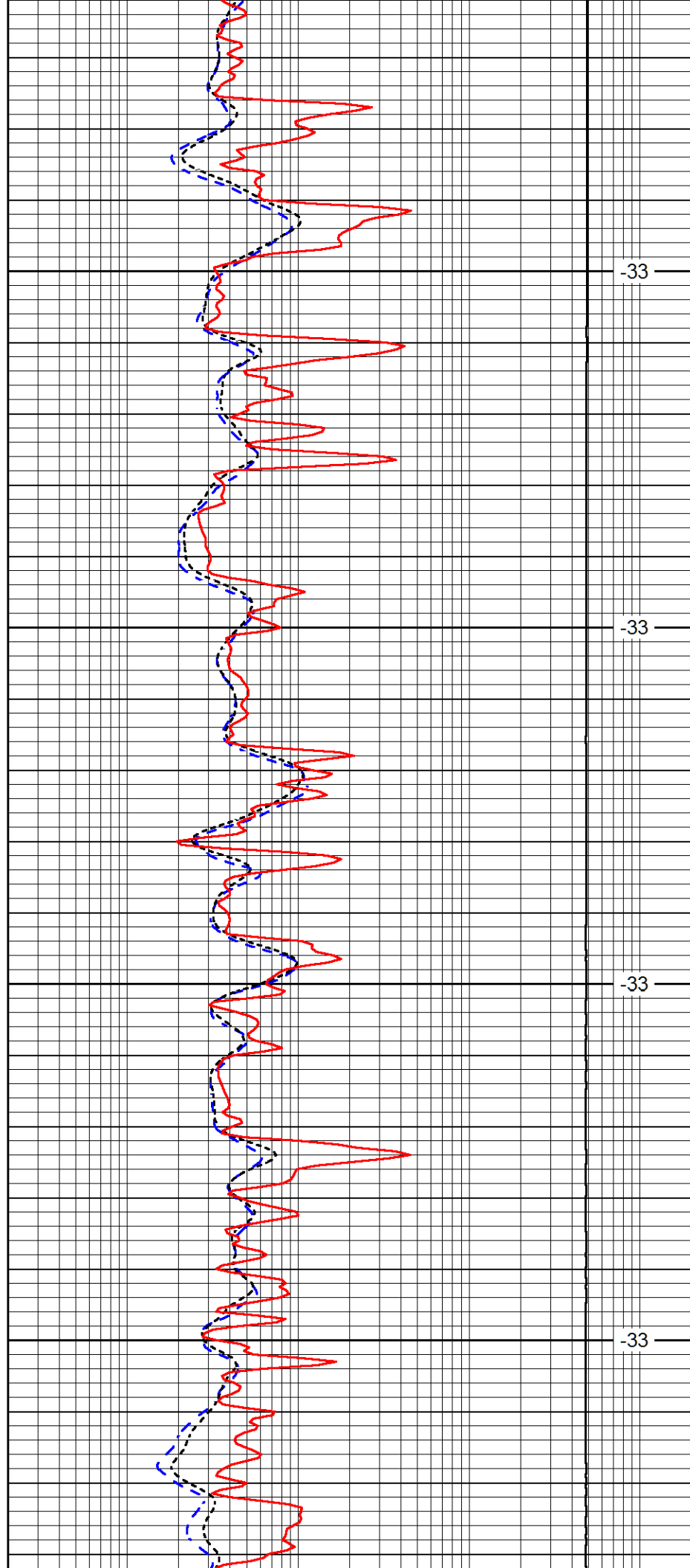


2050

2100

2150

2200

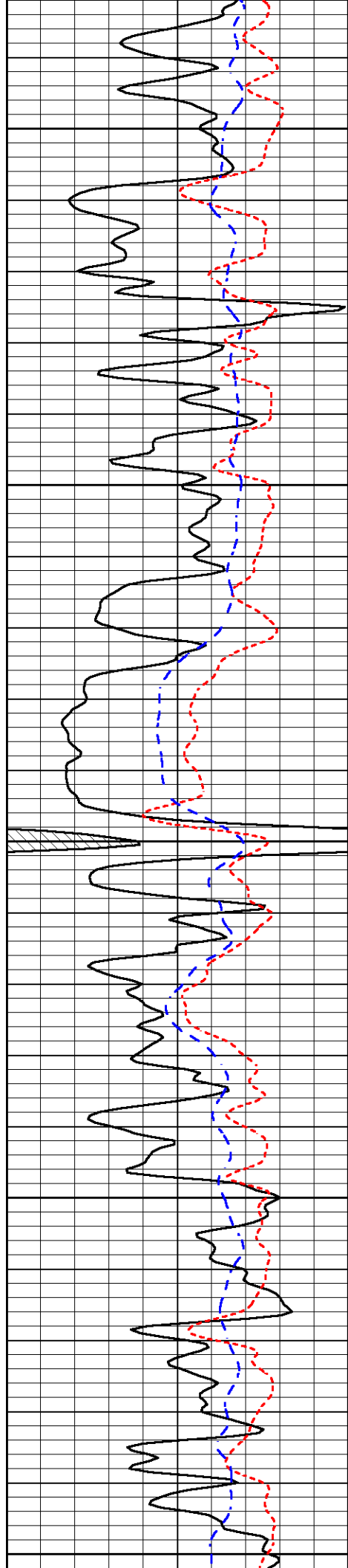


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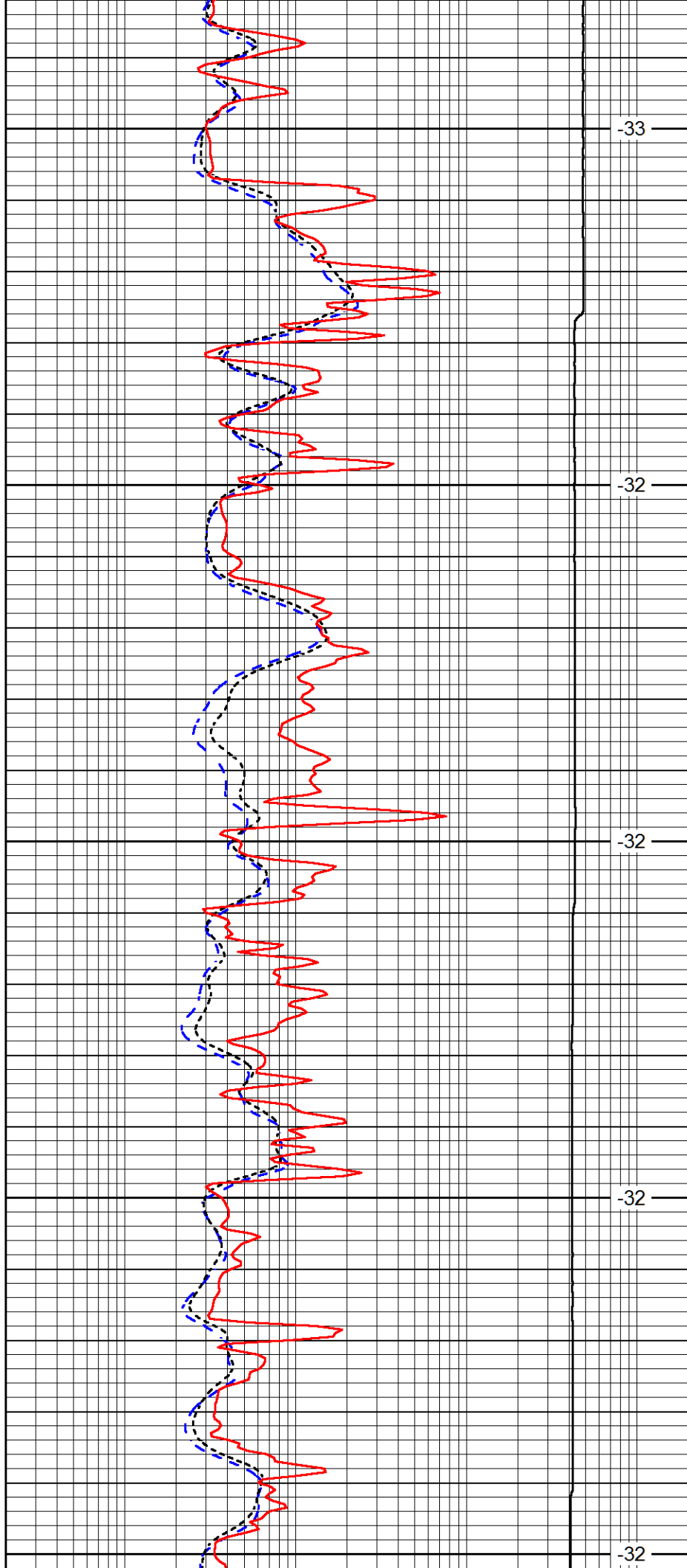
2250

2300

2350

2400

2450



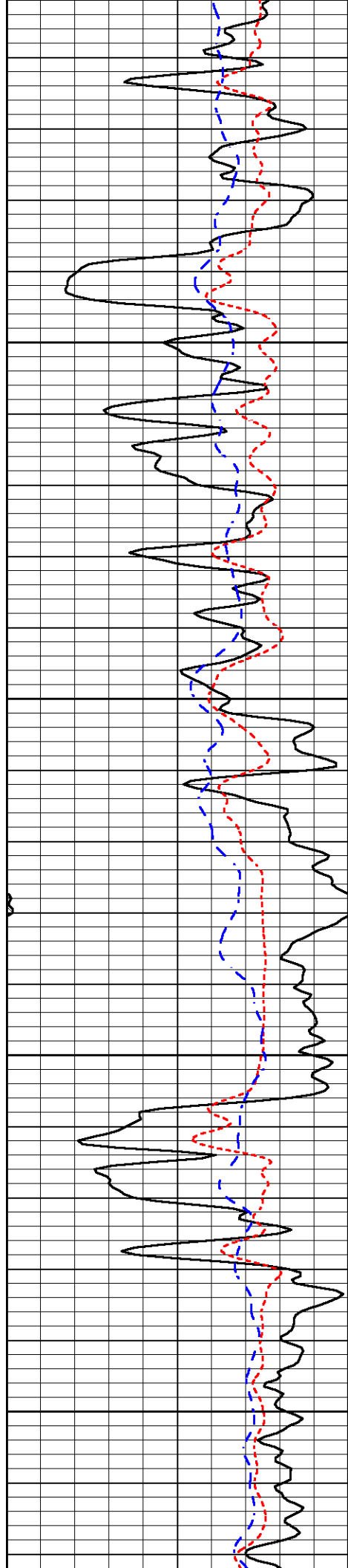
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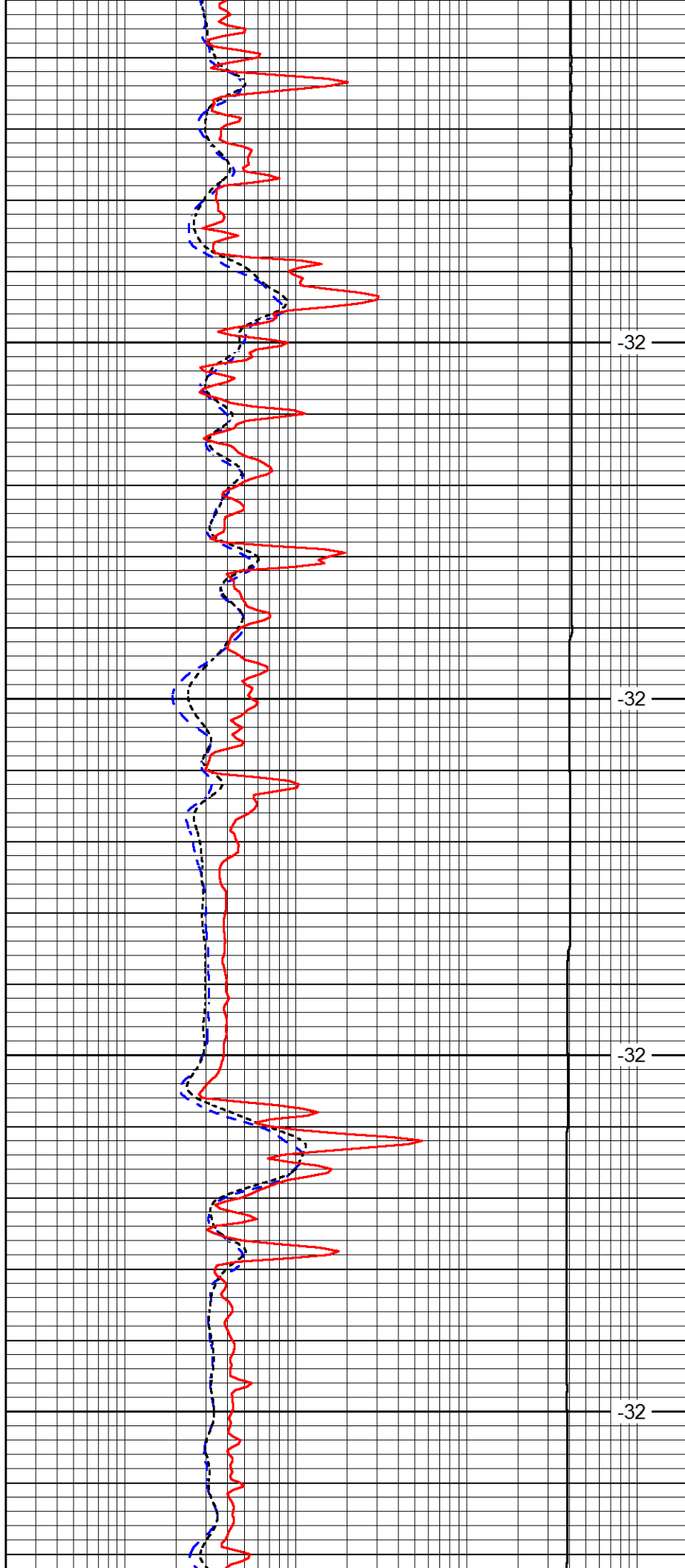


2500

2550

2600

2650

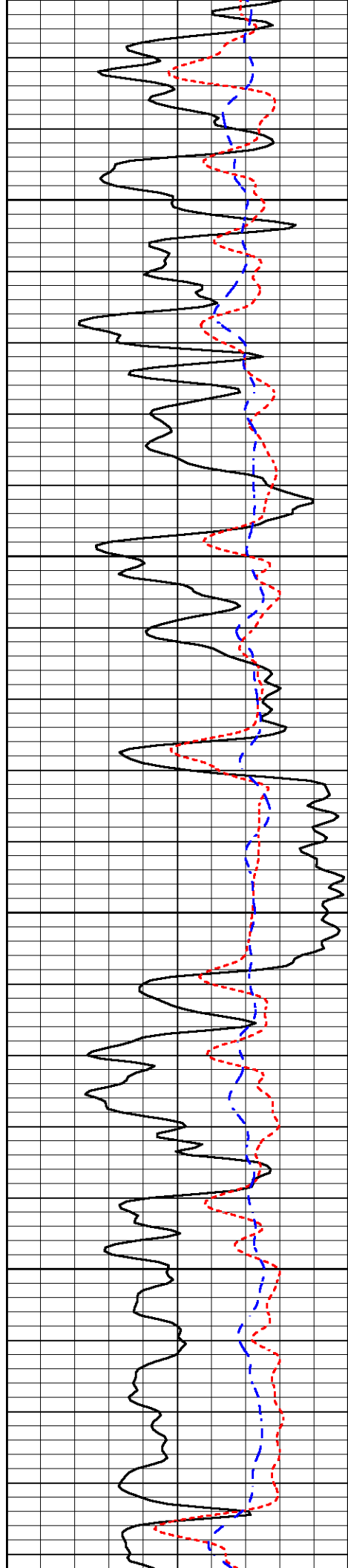


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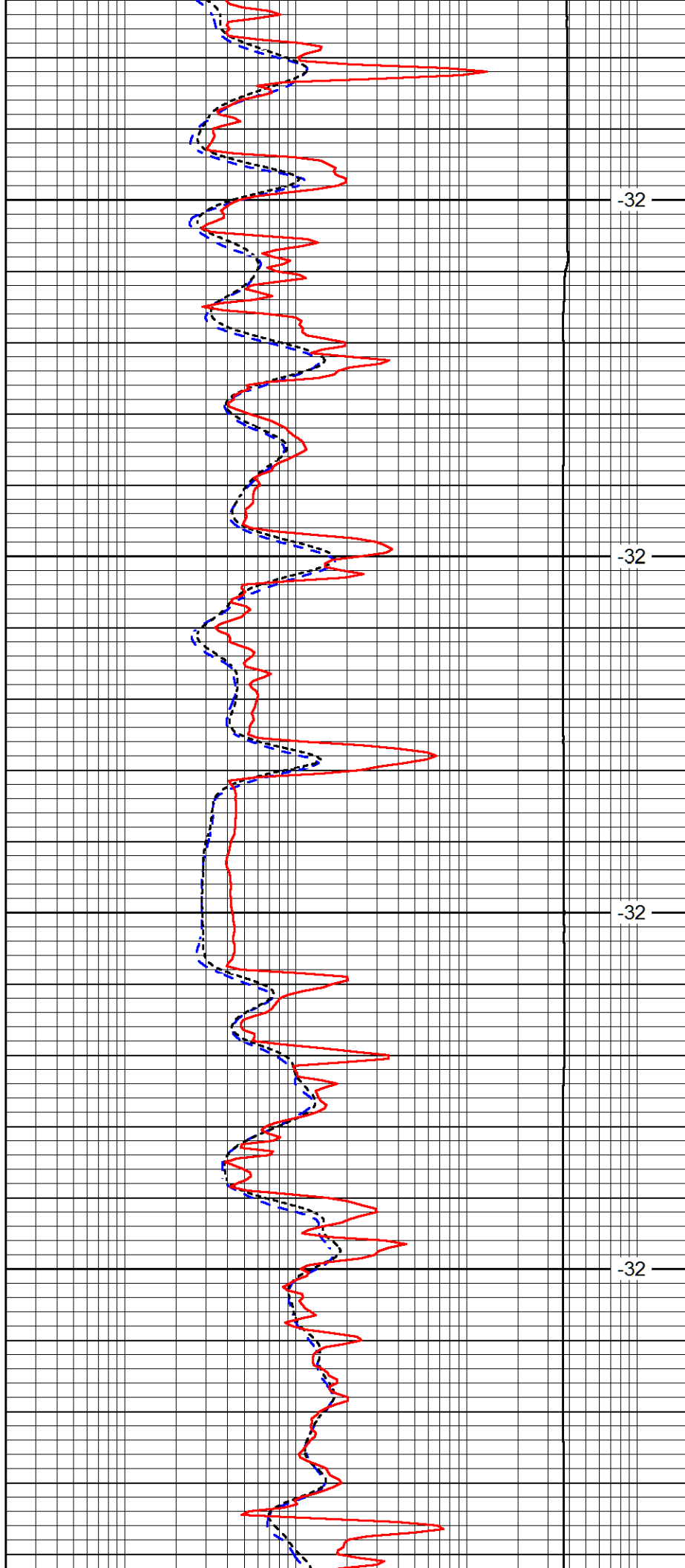


2700

2750

2800

2850

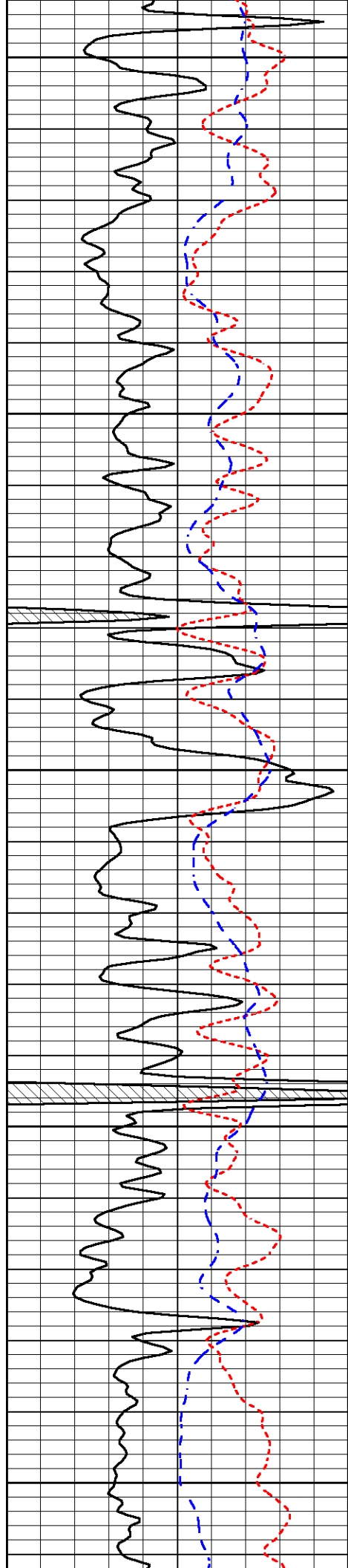


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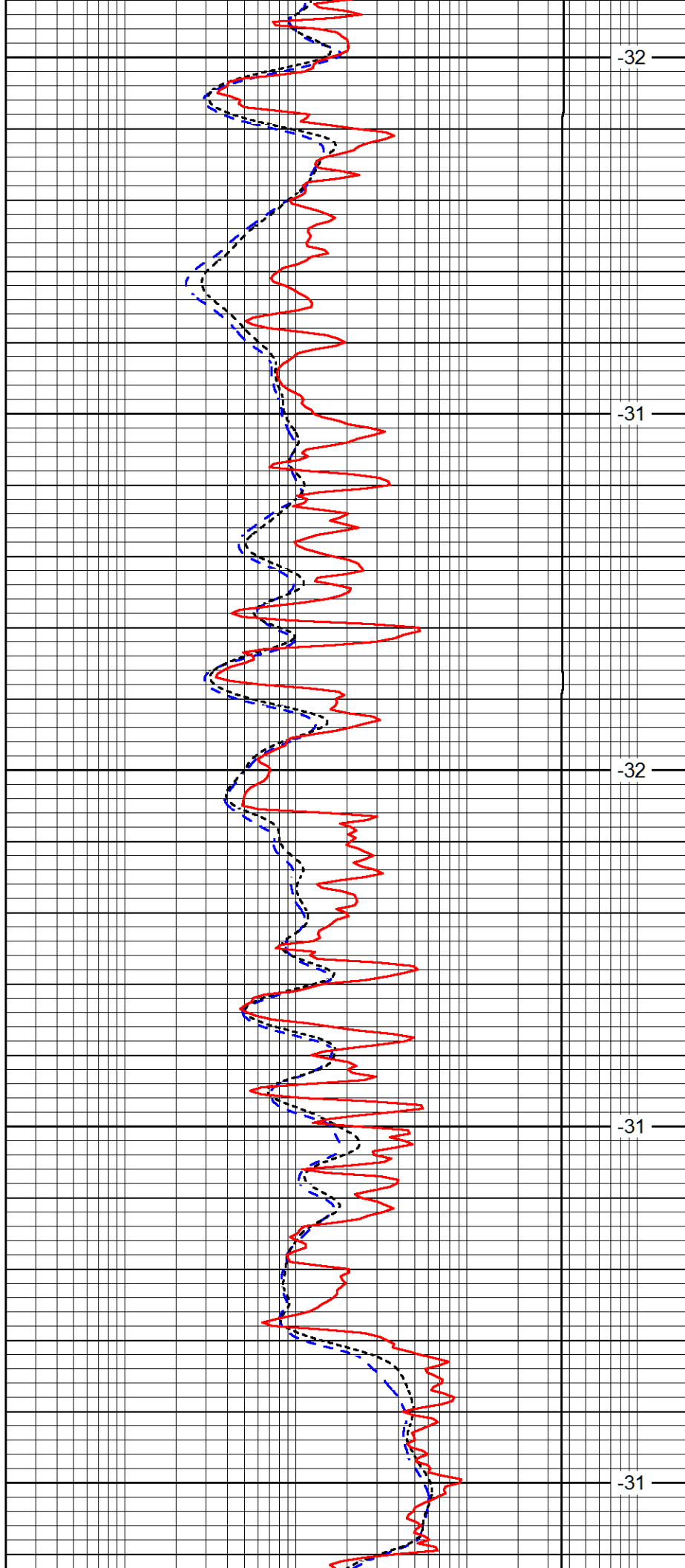
2900

2950

3000

3050

3100



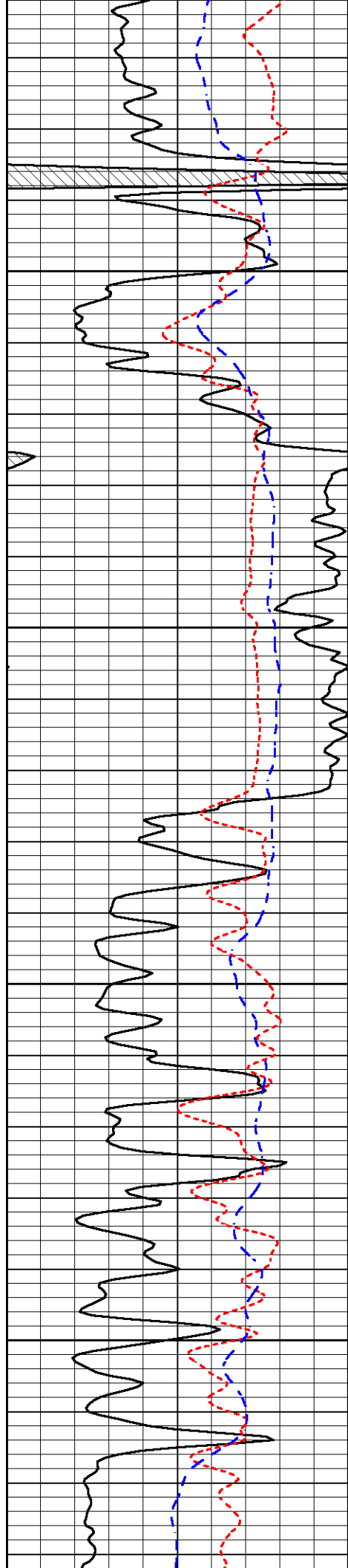
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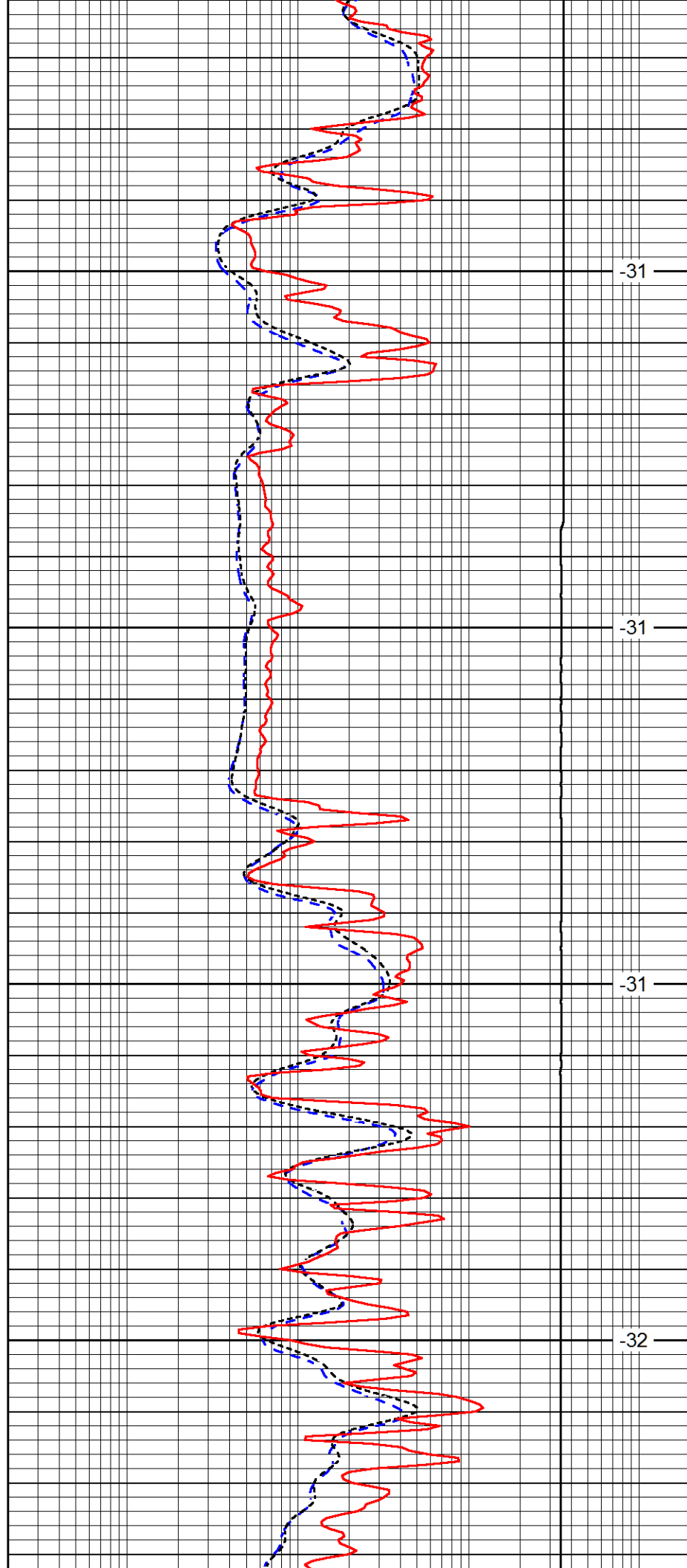


3150

3200

3250

3300

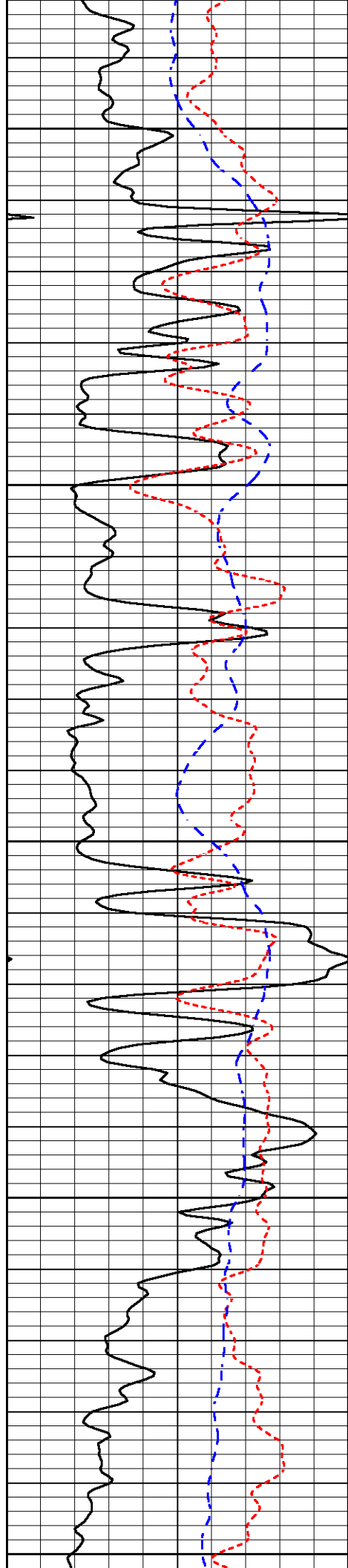


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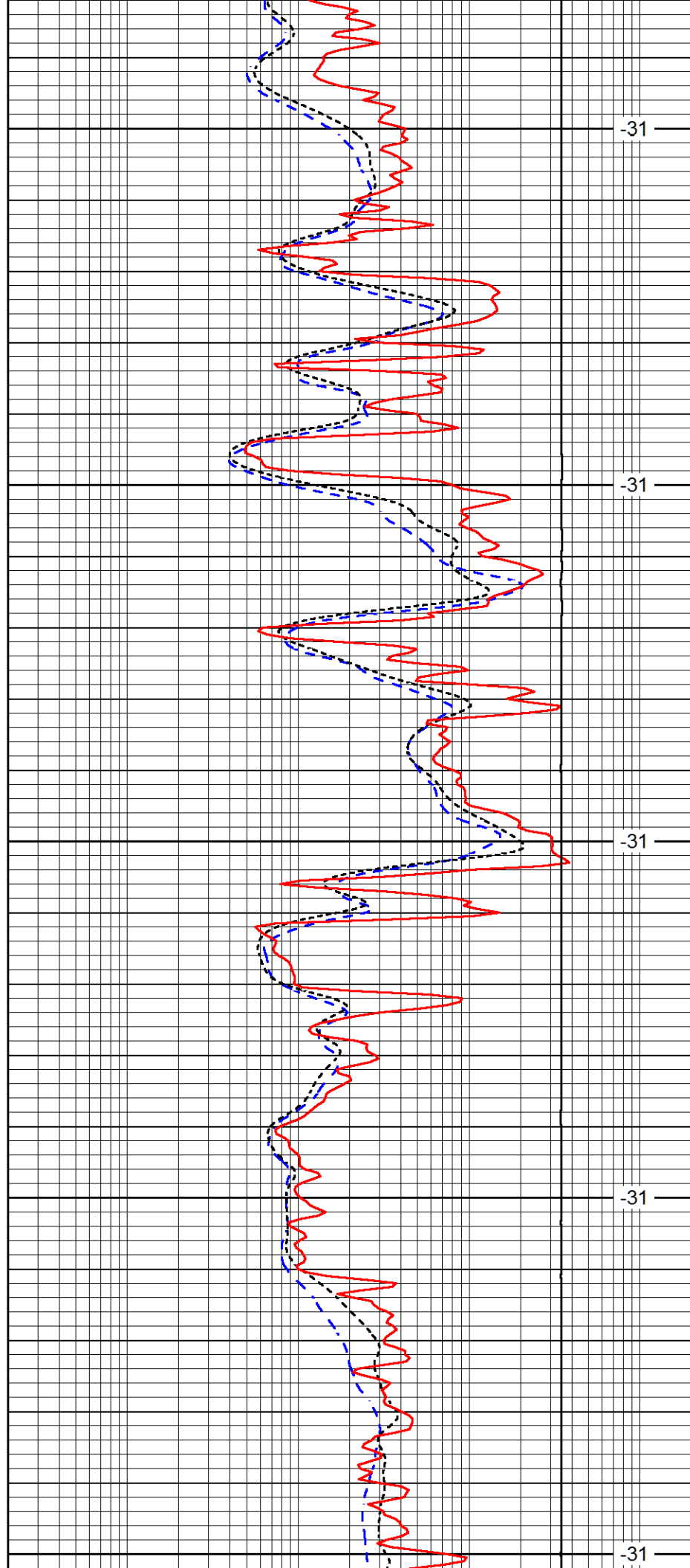
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3400

3450

3500

3550



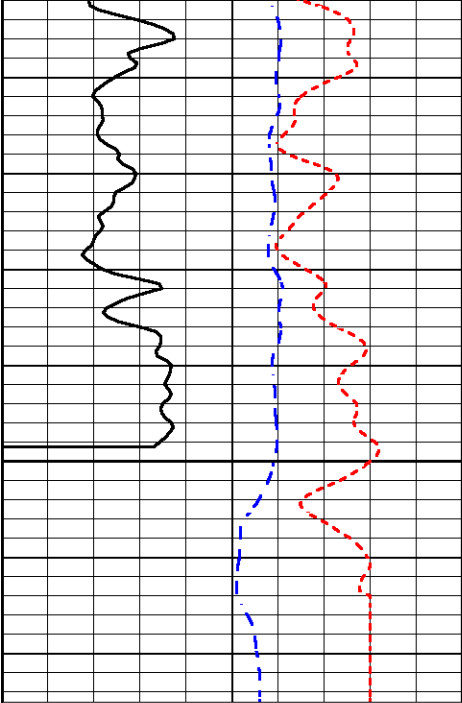
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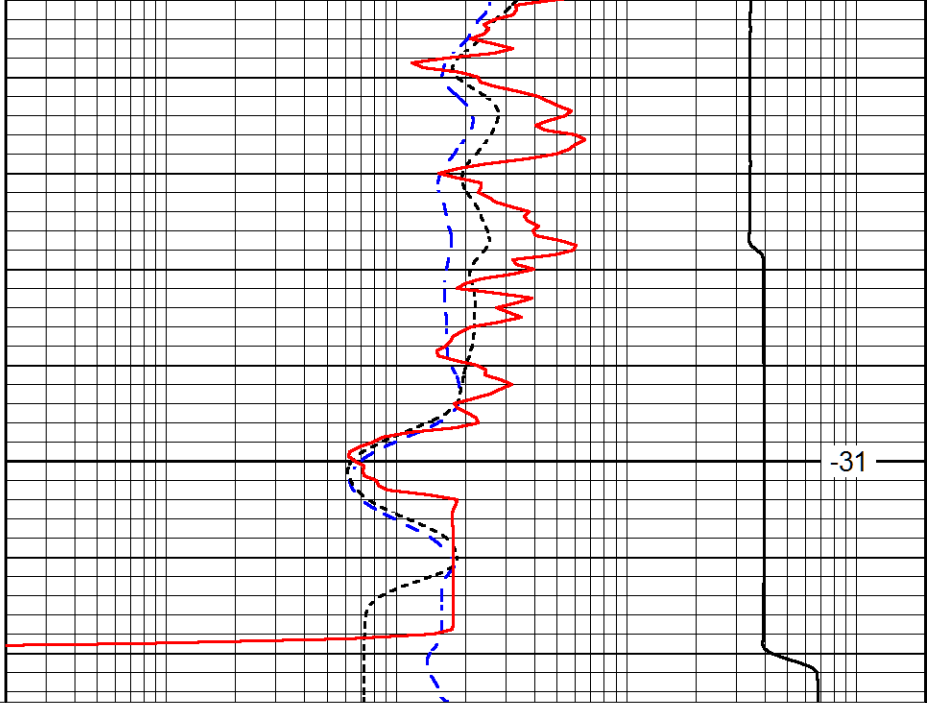
-31

-31

-31



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



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD