



Dual Induction Log

Pioneer Energy Services

API No.

15-109-21,192-00-00

Company Lario Oil & Gas Company

Well Nuss No. 2-24

Field Unknown

County Logan State Kansas

Location 2310' FNL & 660' FEL

Sec: 24 Twp: 14S Rge: 32W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2749

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 2760
D.F. 2749
G.L. 2749

Date 7/31/2013

Run Number One

Depth Driller 4550

Depth Logger 4549

Bottom Logged Interval 4548

Top Log Interval 200

Casing Driller 8.625 @ 223

Casing Logger 223

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 4,400

Density / Viscosity 9.3 55

pH / Fluid Loss 10.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp .30 @ 78

Rmf @ Meas. Temp .23 @ 78

Rmc @ Meas. Temp .41 @ 78

Source of Rmf / Rmc Charts

Rm @ BHT .19 @ 122

Operating Rig Time 4 Hours

Max Rec. Temp. F 122

Equipment Number 91

Location Hays

Recorded By J. Henrickson

Witnessed By Steve Davis

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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

Oakley Kansas
South to Jayhawk Rd, East to 460 Rd, South Into

Database File: lario_nuss_2_24hd1.db

Dataset Pathname: DIL/larstk2

Presentation Format: dil2in

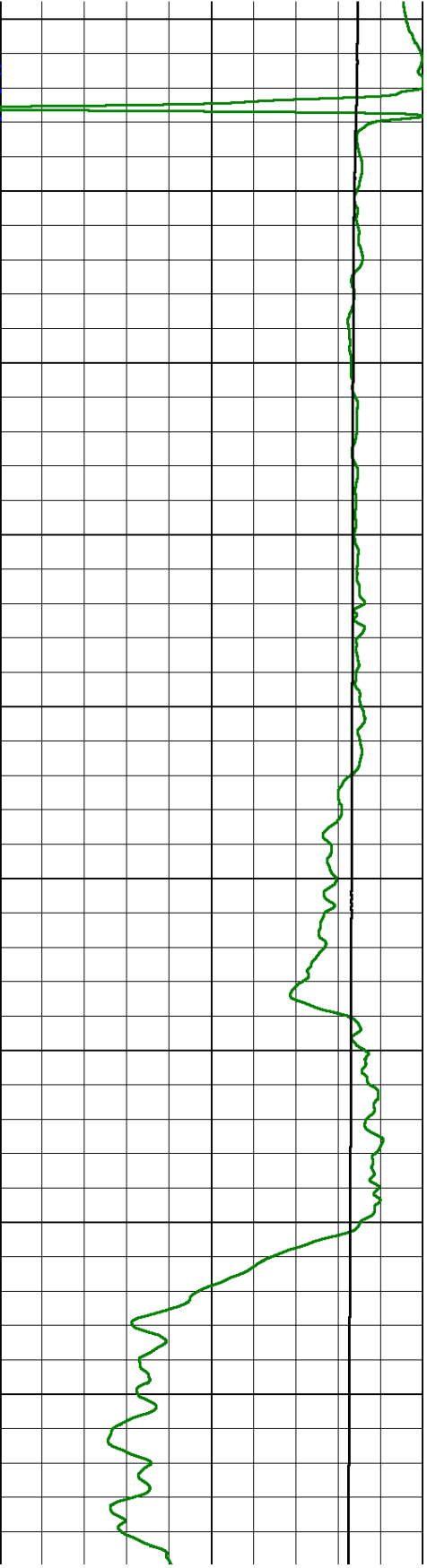
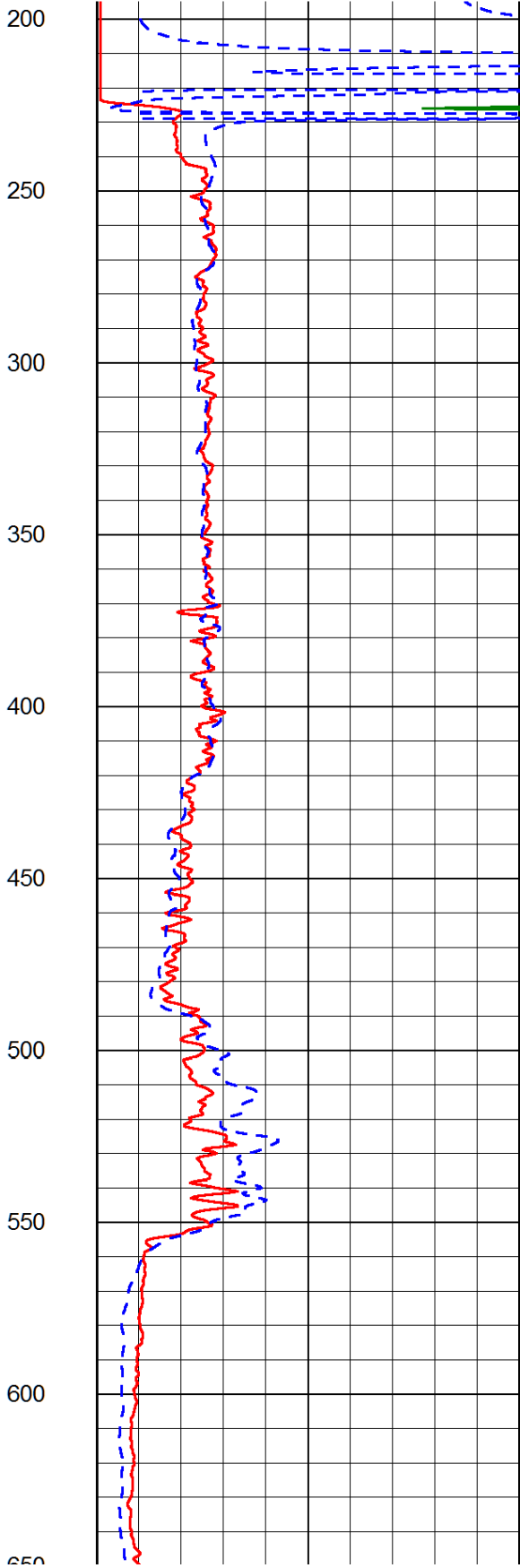
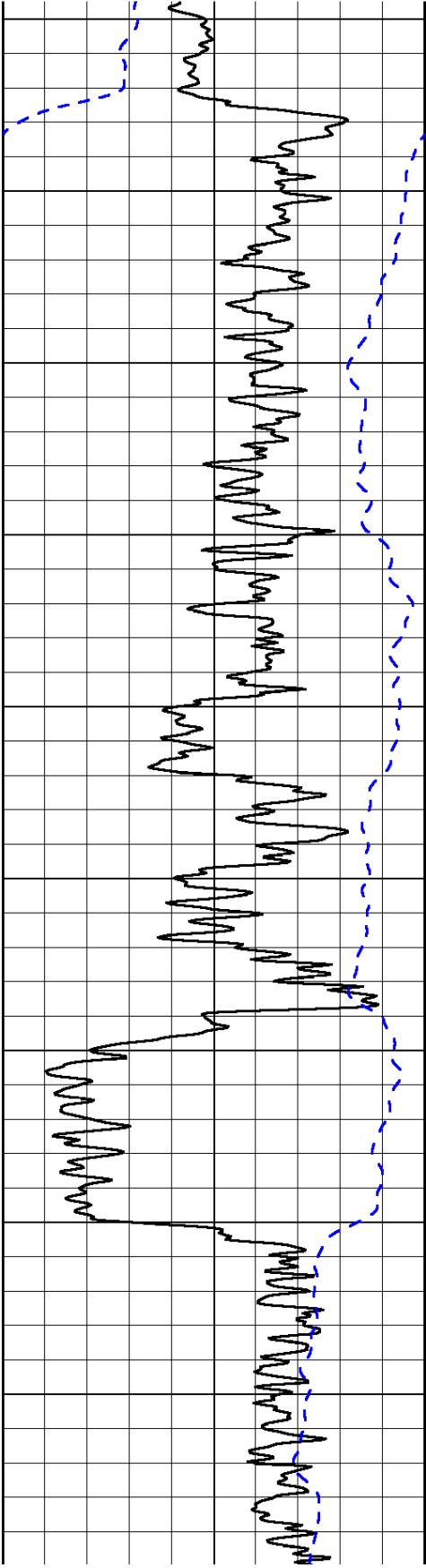
Dataset Creation: Thu Aug 01 00:28:08 2013

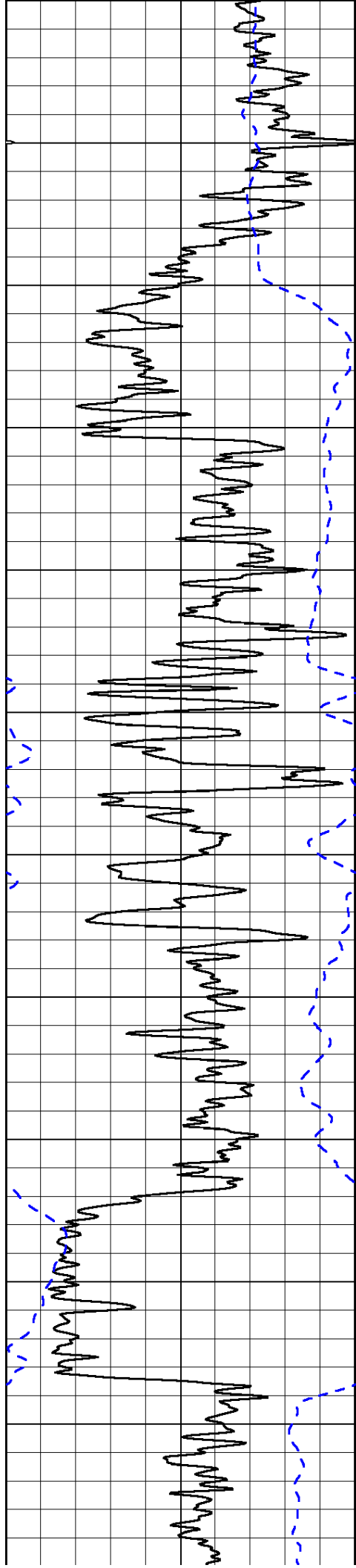
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:600

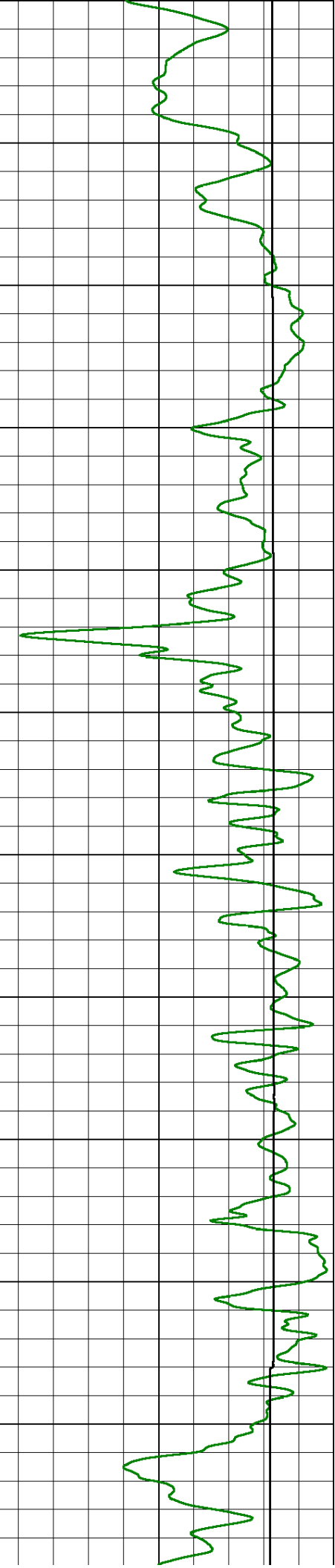
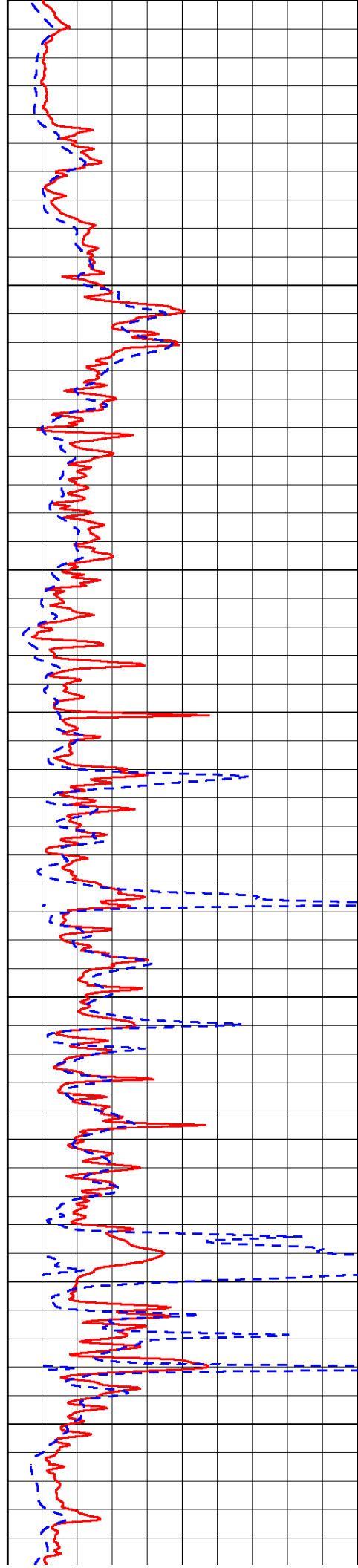
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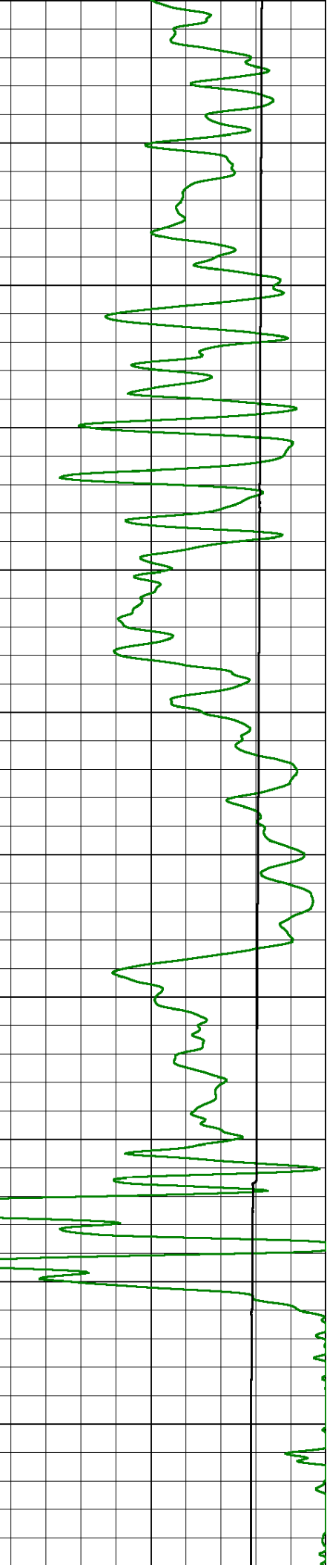
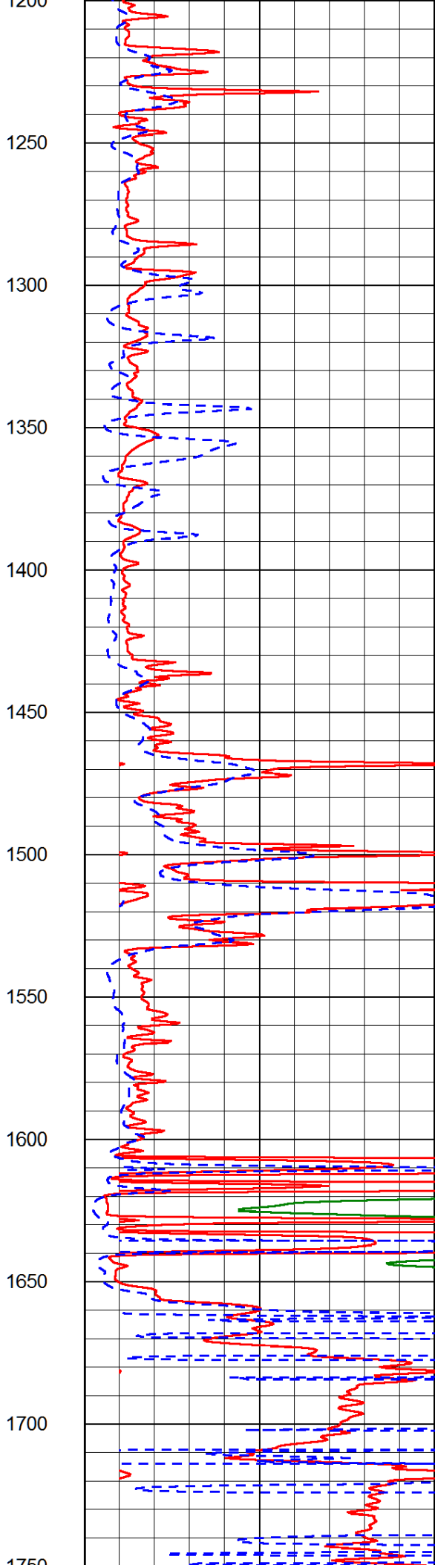
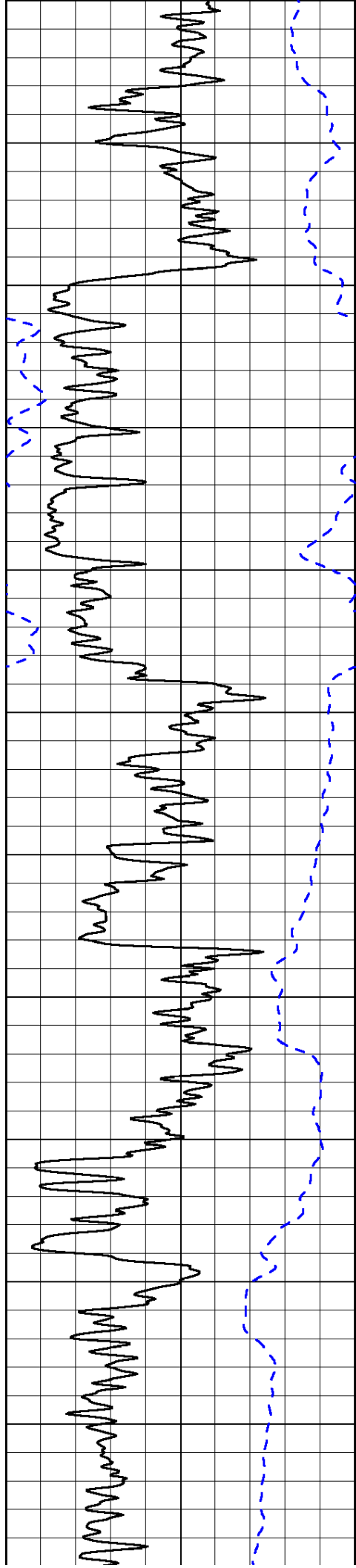
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

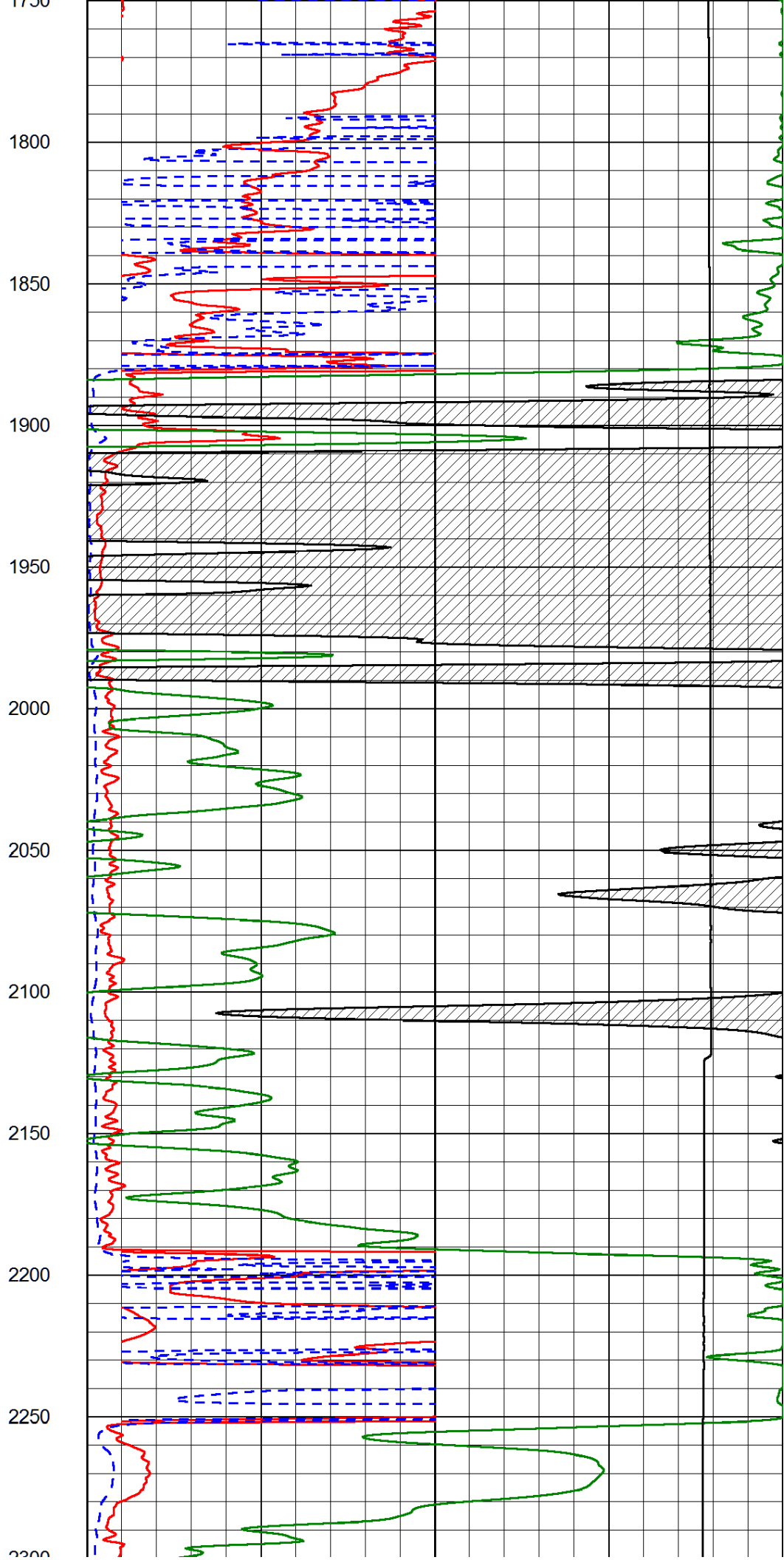
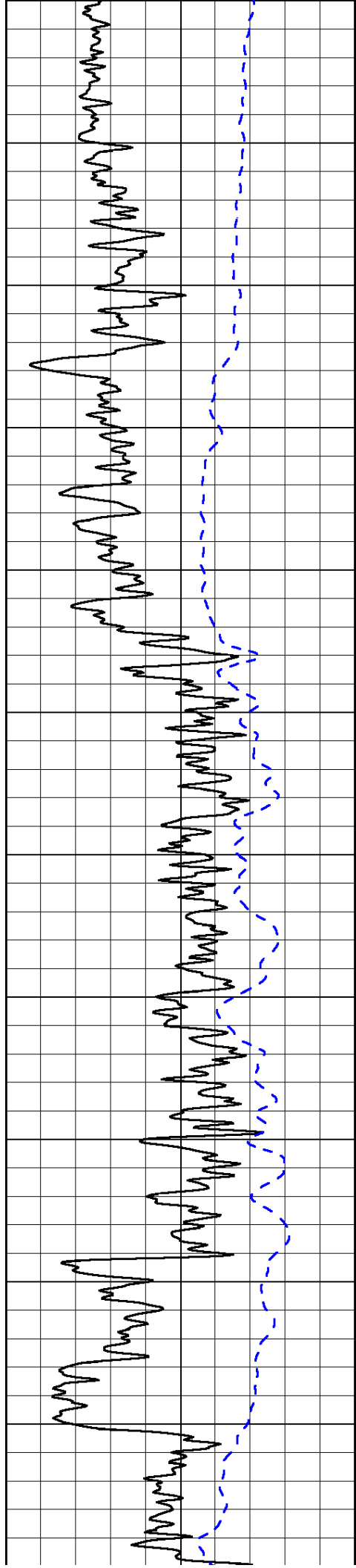


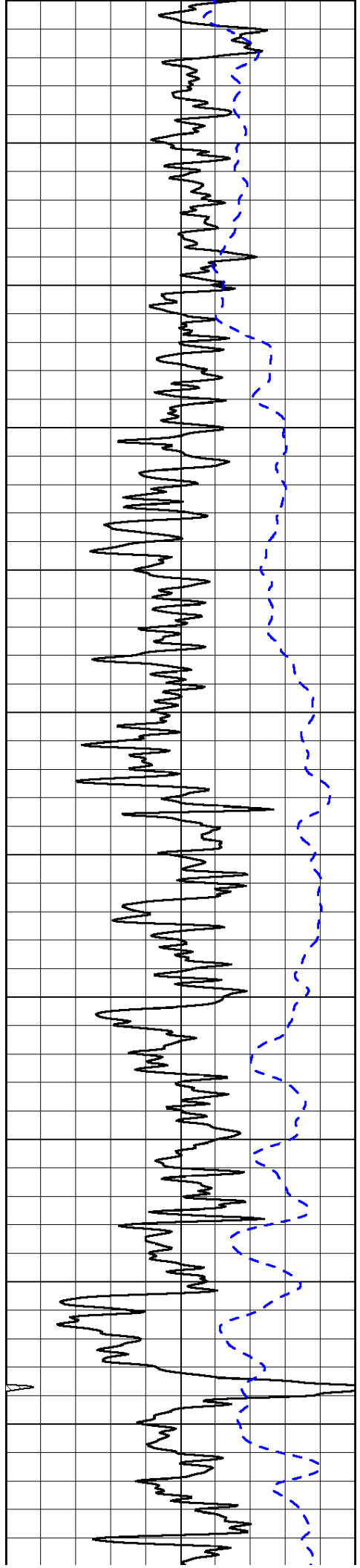
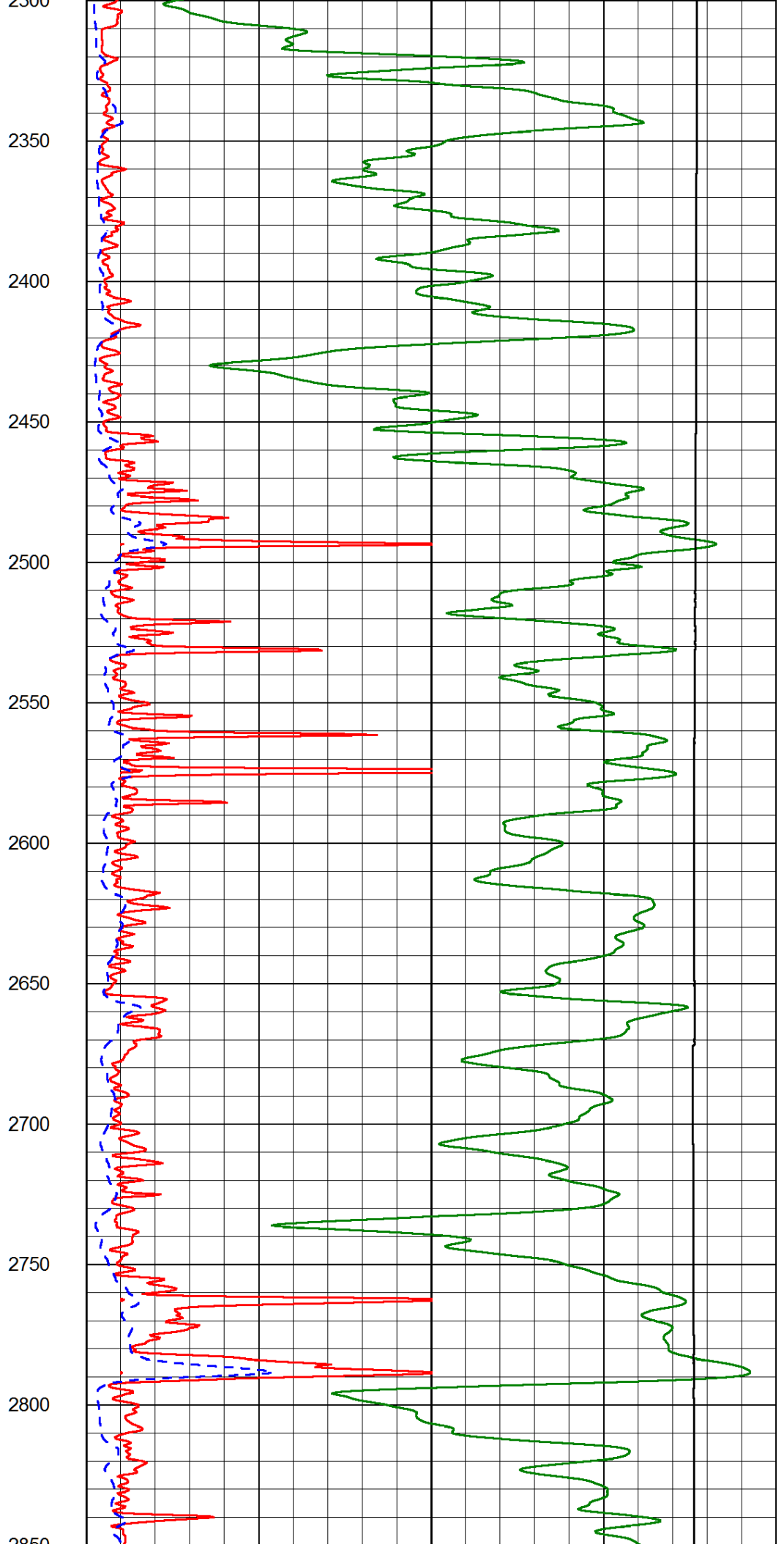


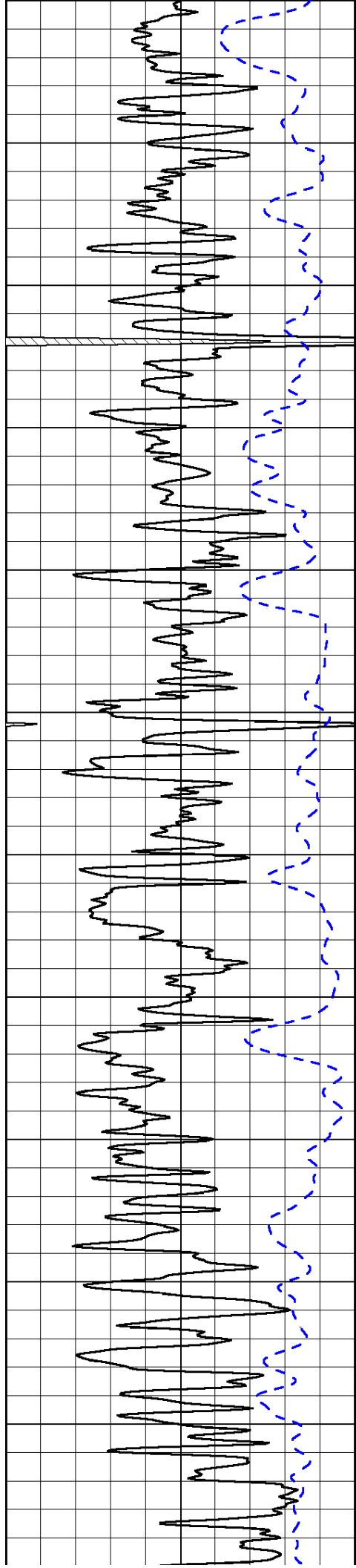
650 700 750 800 850 900 950 1000 1050 1100 1150 1200



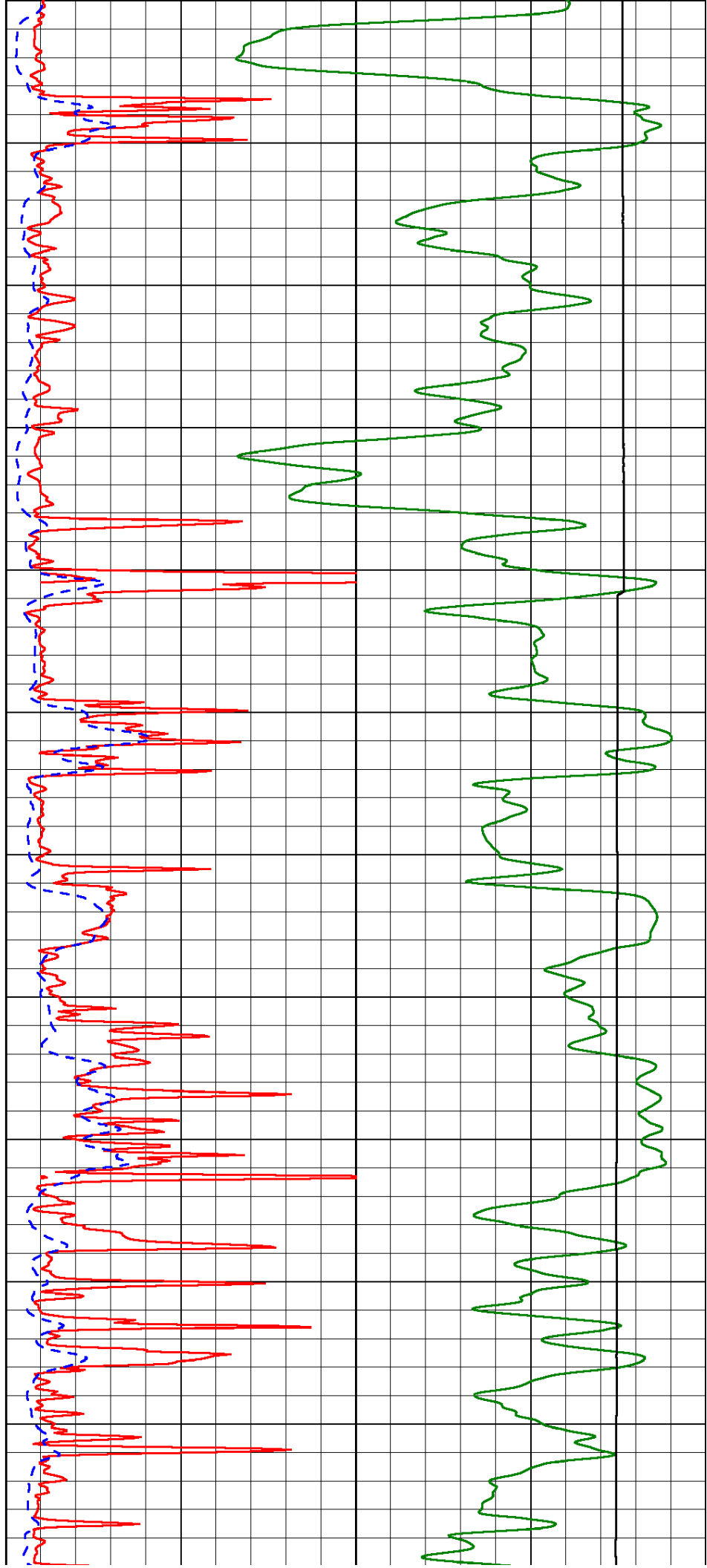


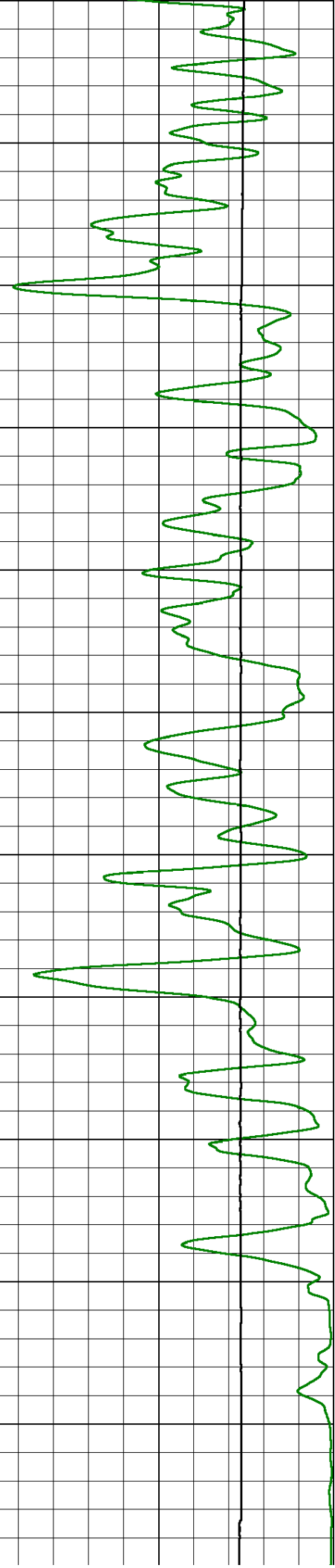
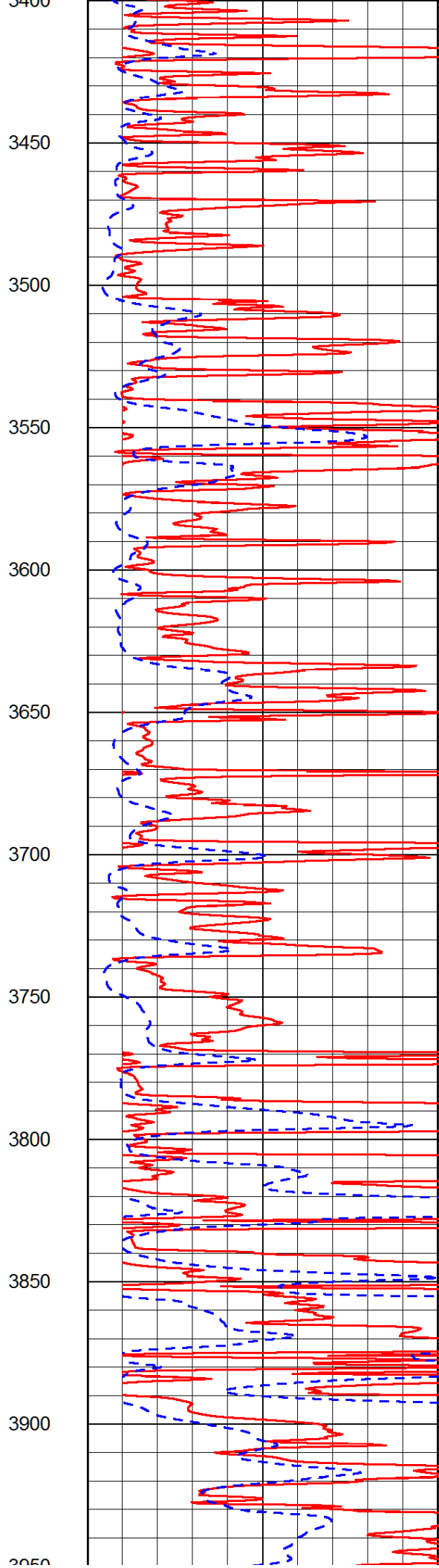
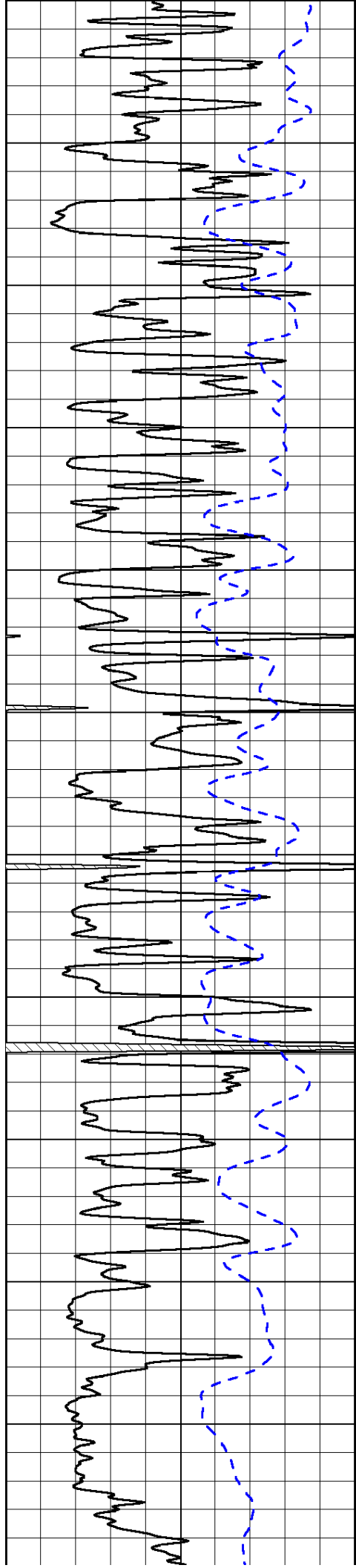


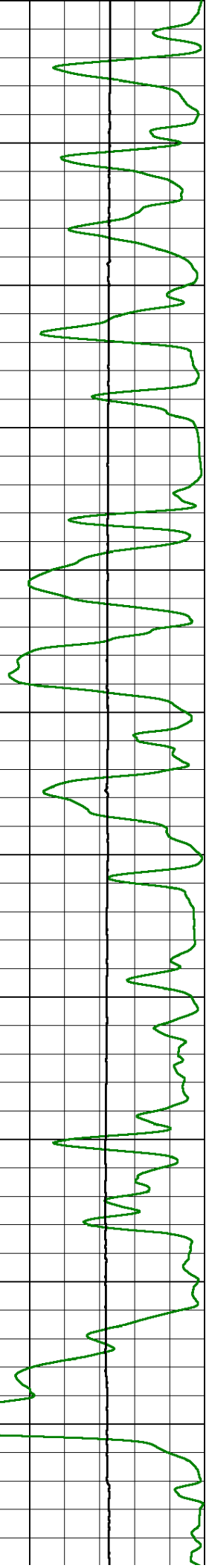
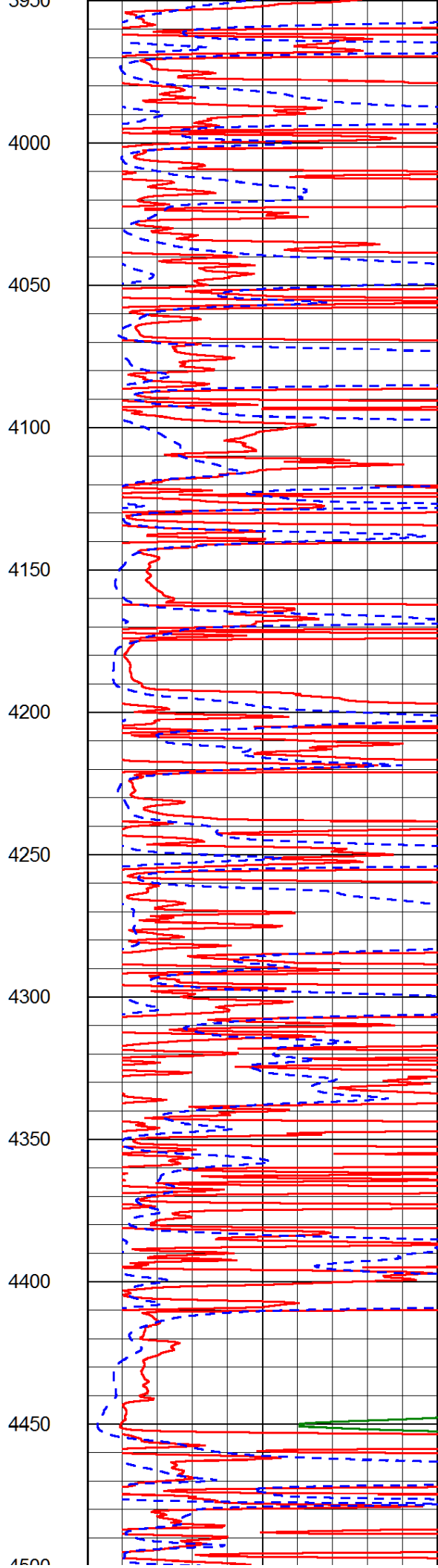
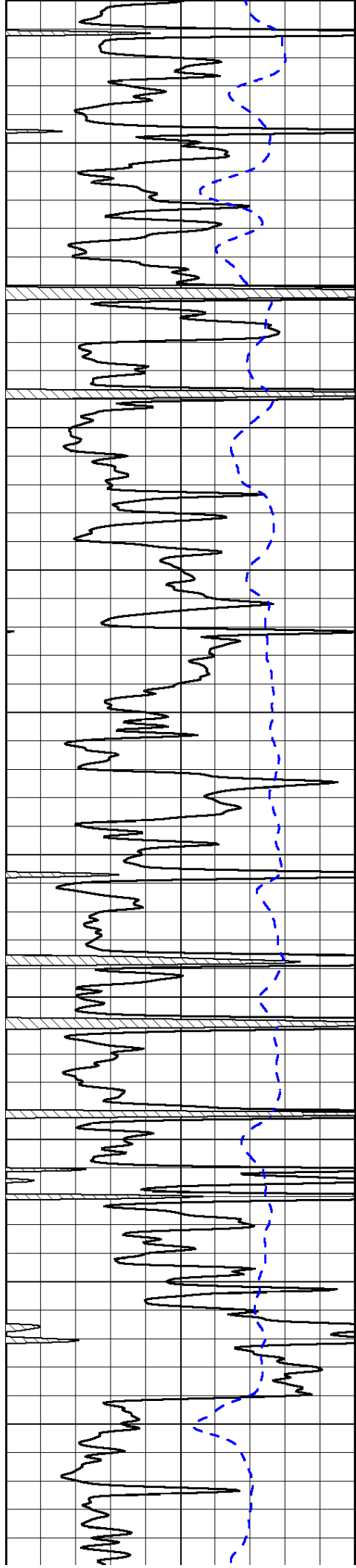


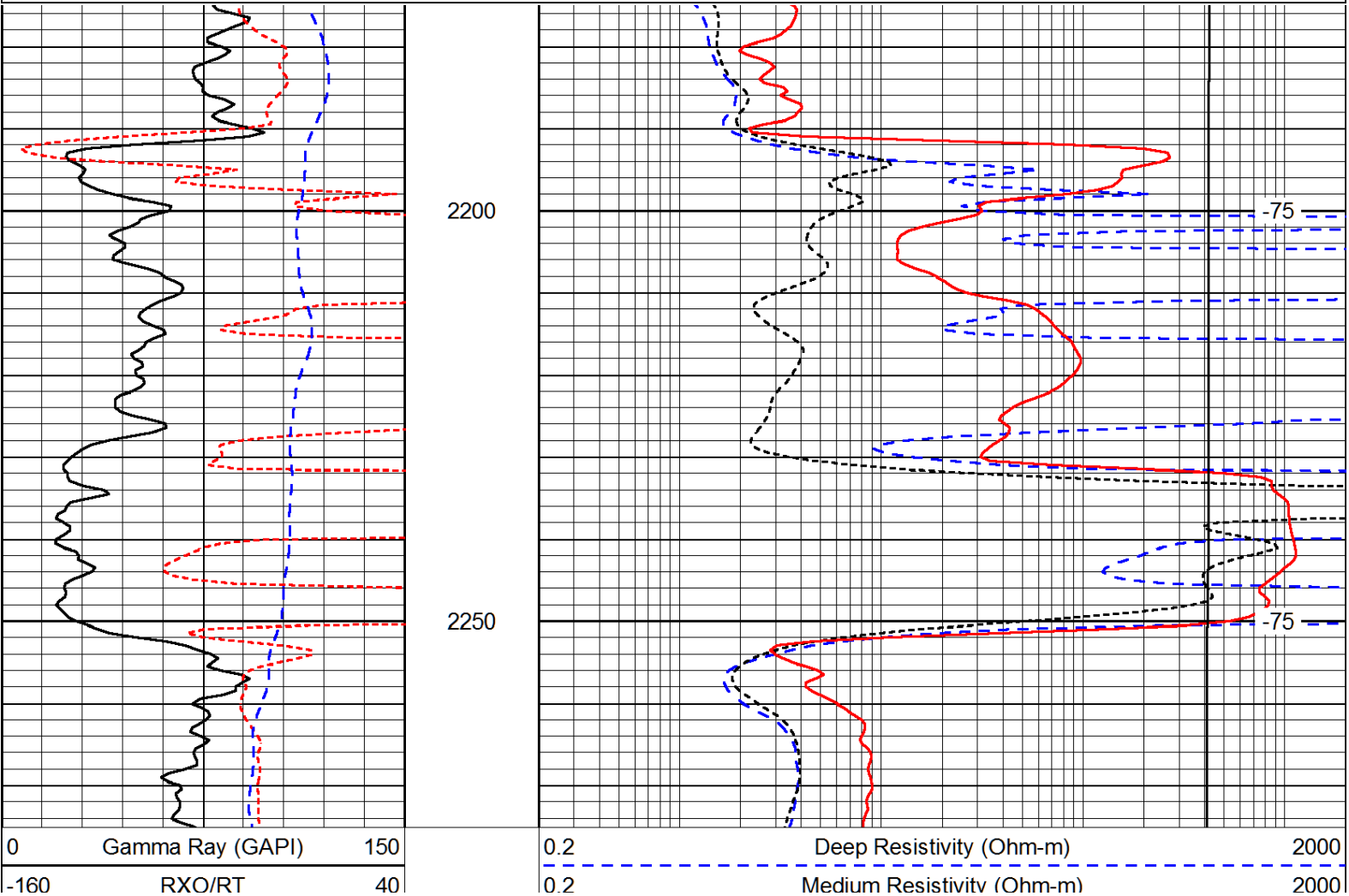
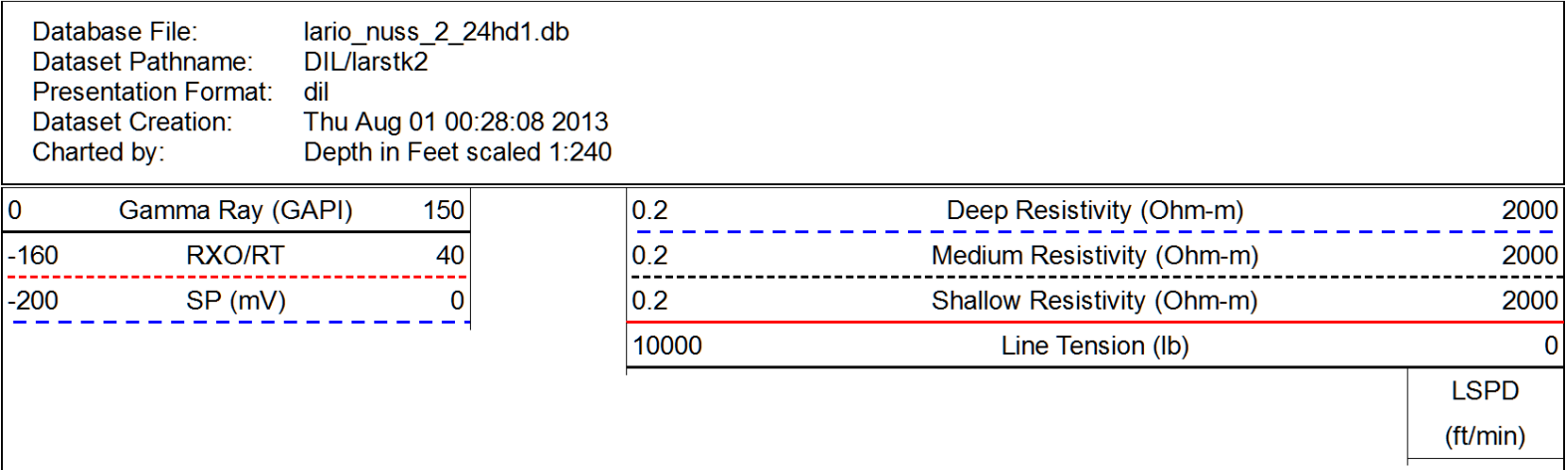
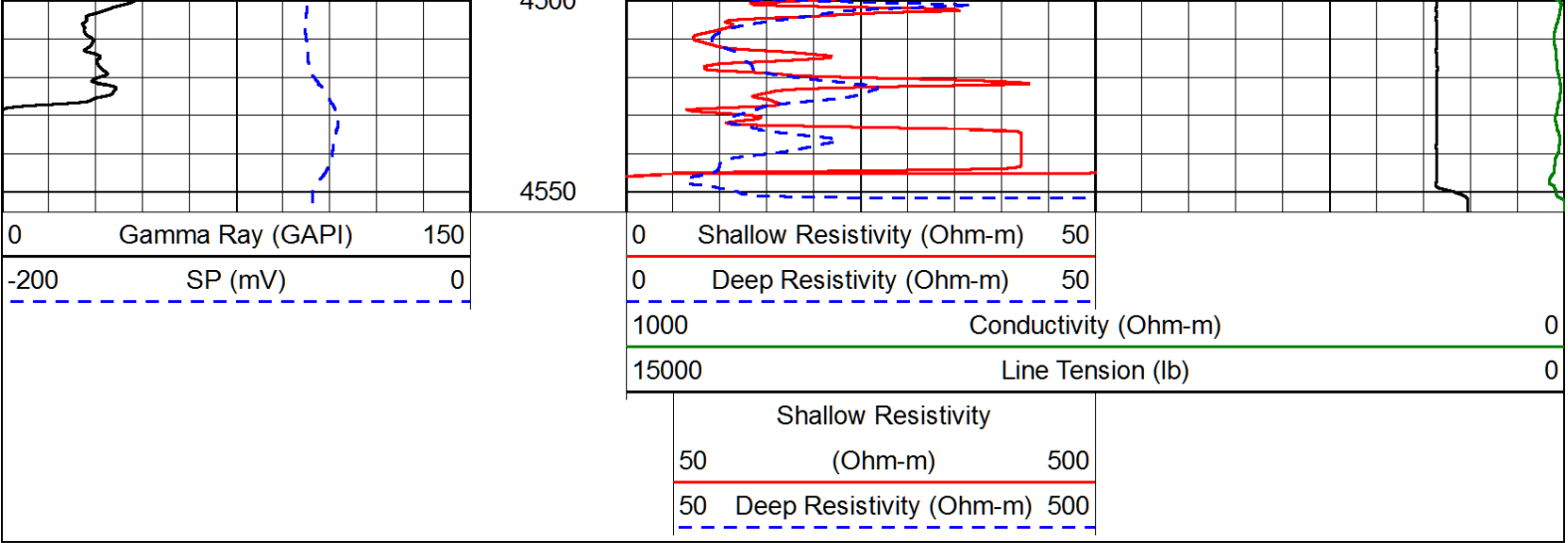


2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400





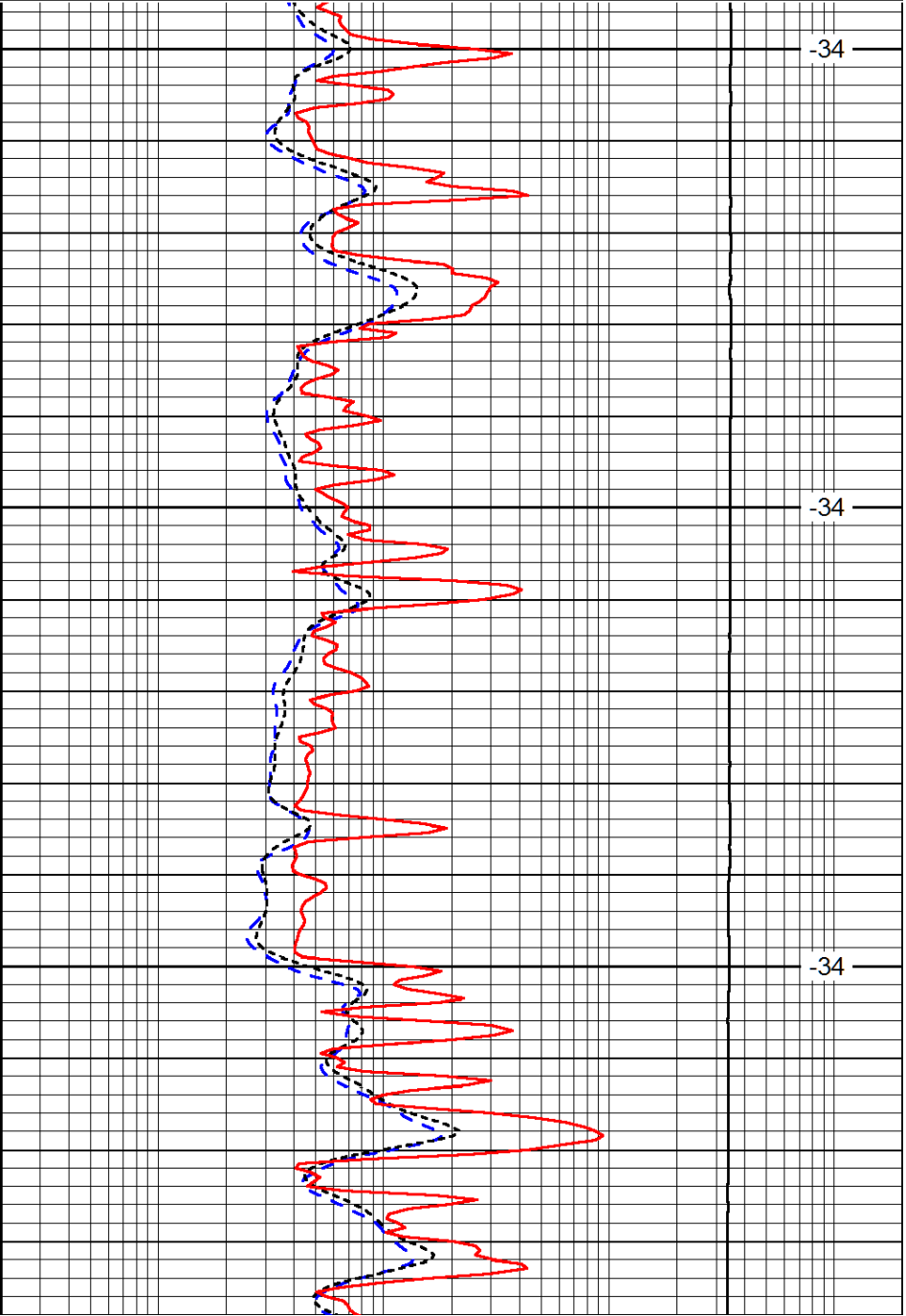
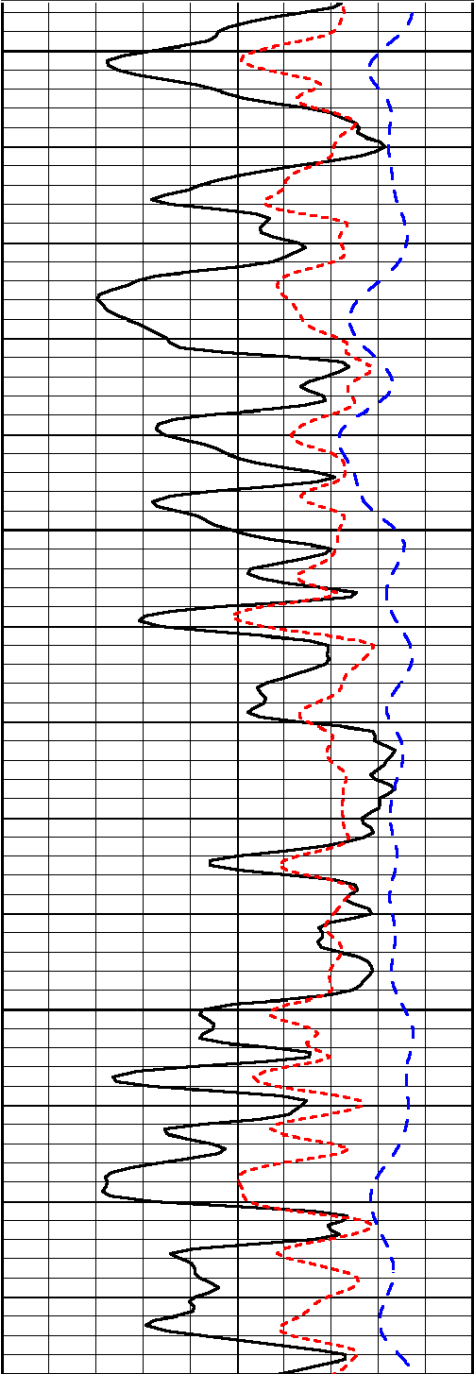


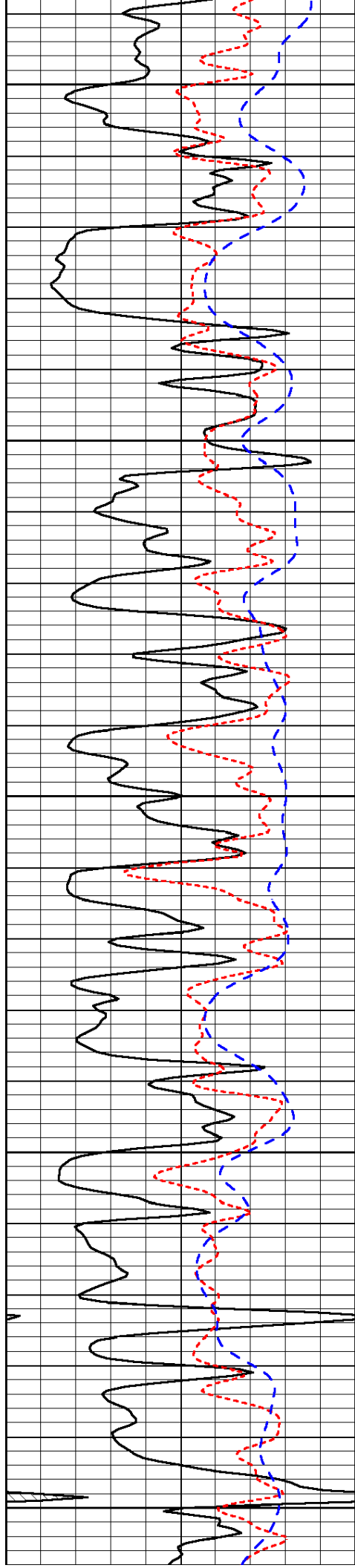


-200	SP (mV)	0
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0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0
		LSPD (ft/min)

Database File: lario_nuss_2_24hd1.db Dataset Pathname: DIL/larstk2 Presentation Format: dil Dataset Creation: Thu Aug 01 00:28:08 2013 Charted by: Depth in Feet scaled 1:240					
0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXO/RT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0
					LSPD (ft/min)





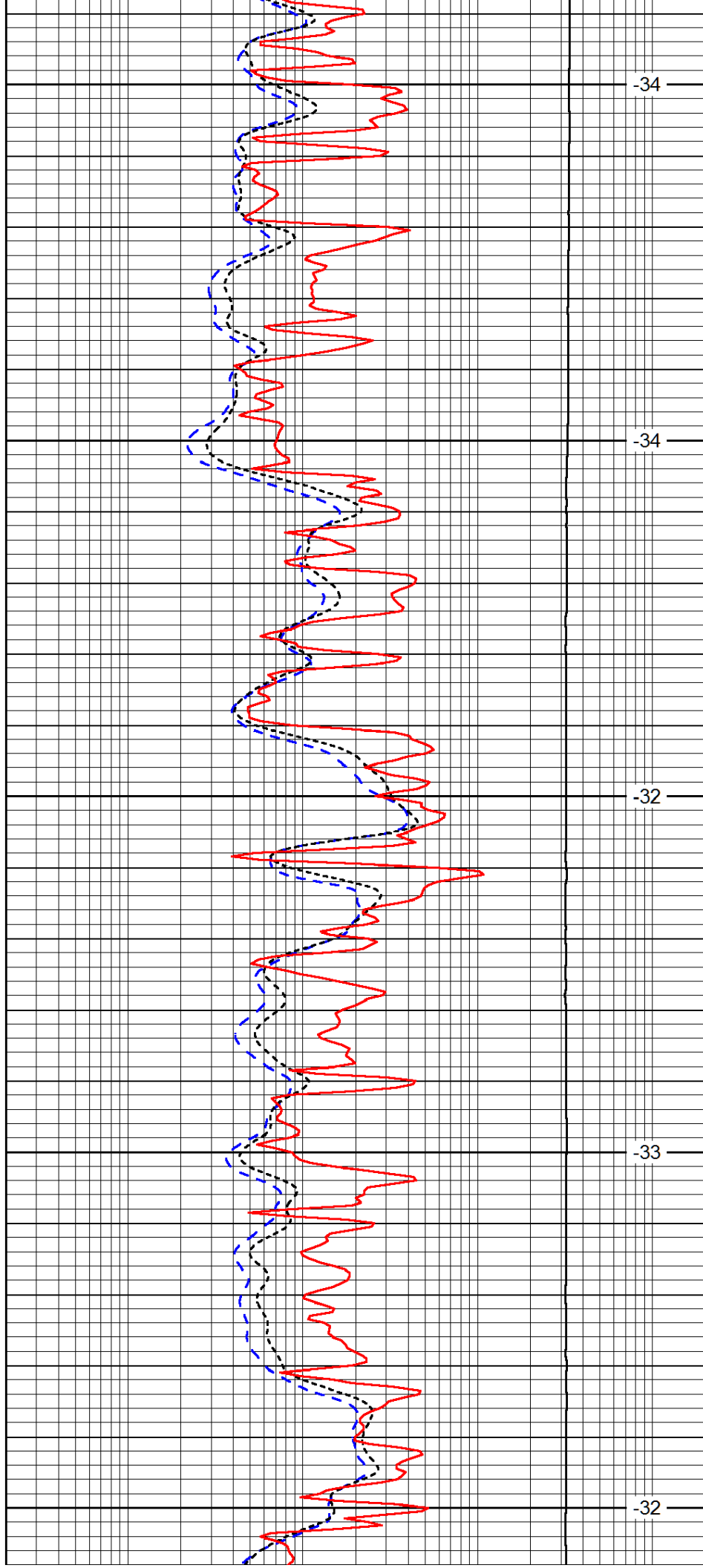
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3500

3550

3600

3650



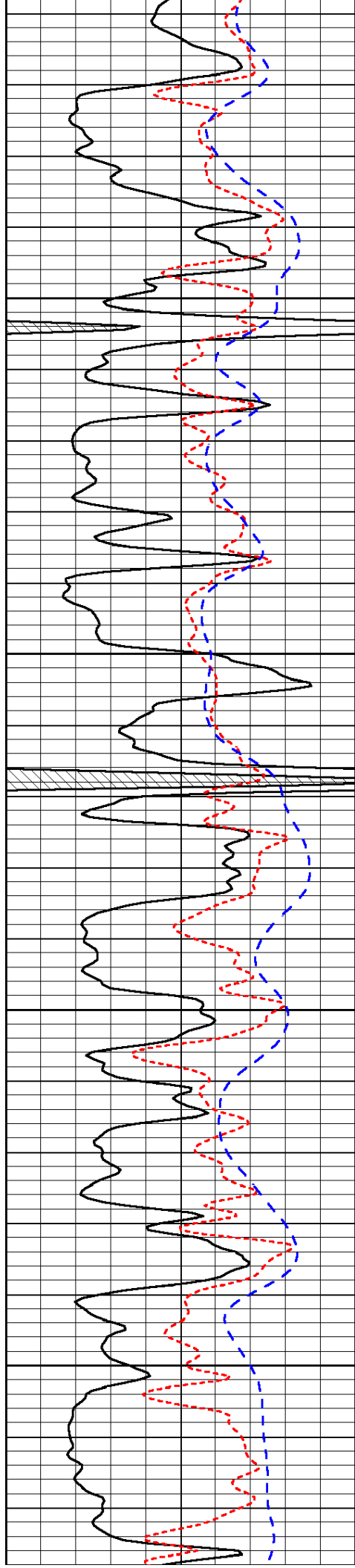
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-32

-33

-32

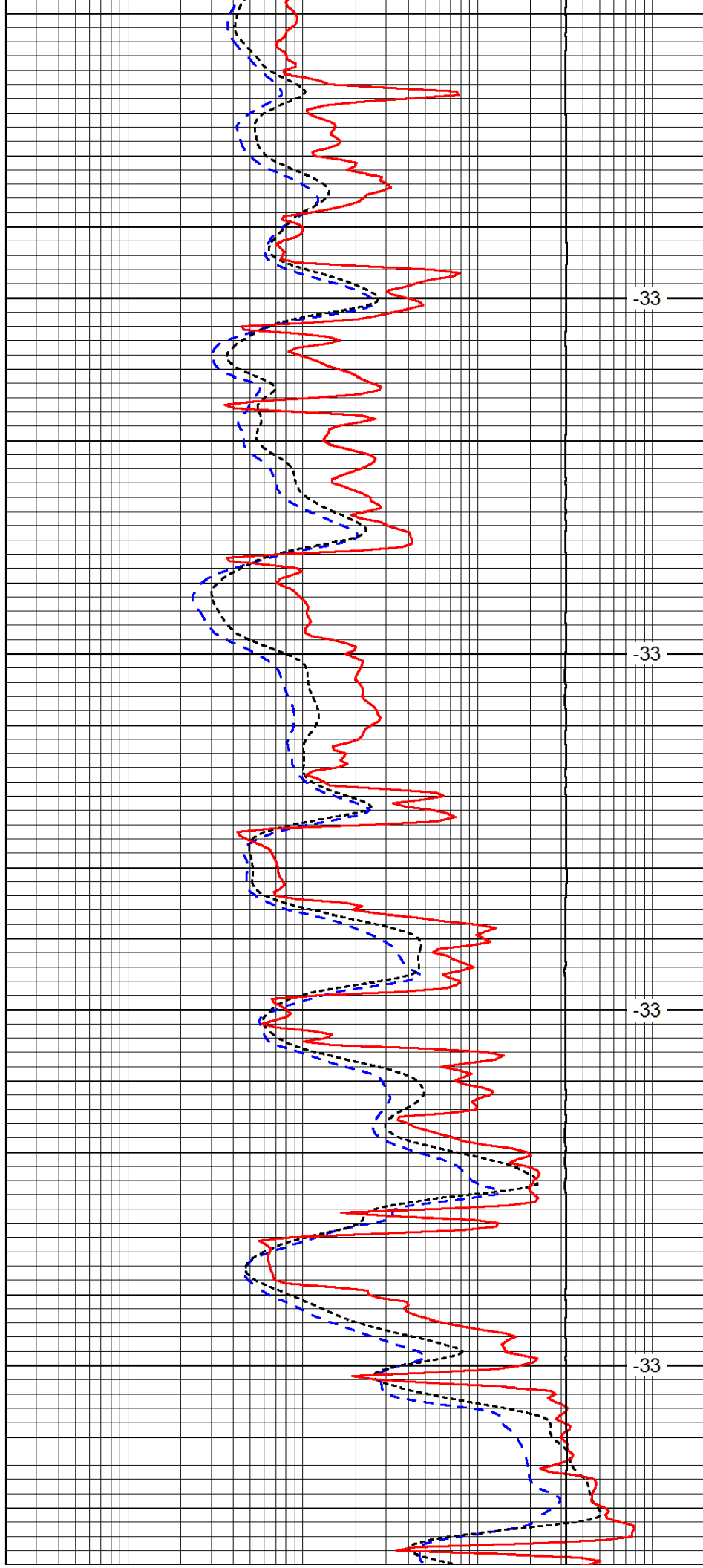


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3750

3800

3850

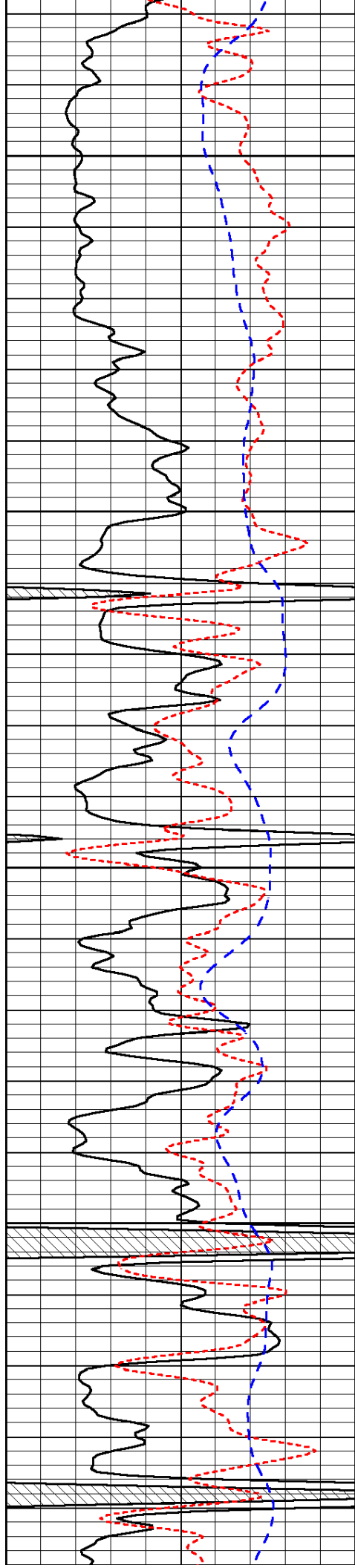


-33

-33

-33

-33

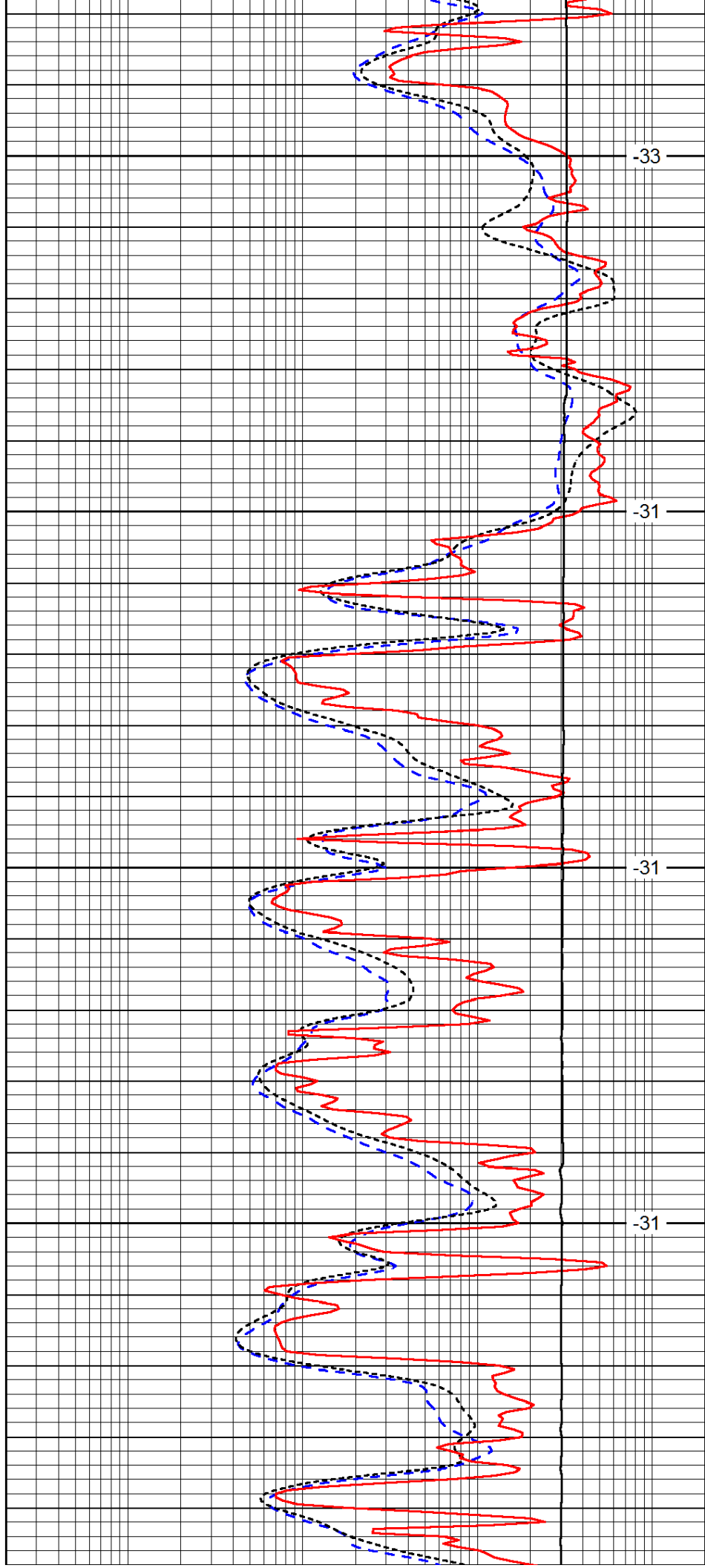


3900

3950

4000

4050

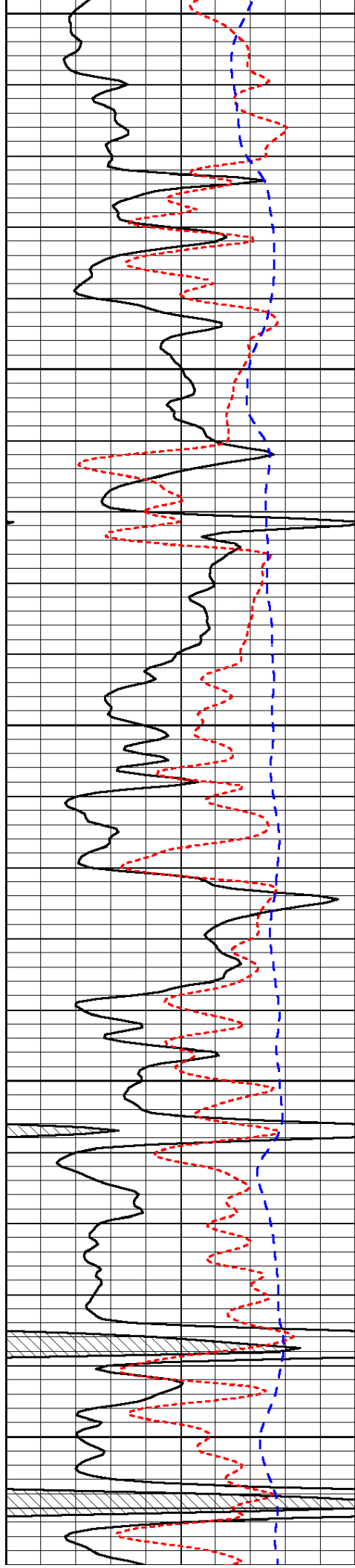


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-31

-31



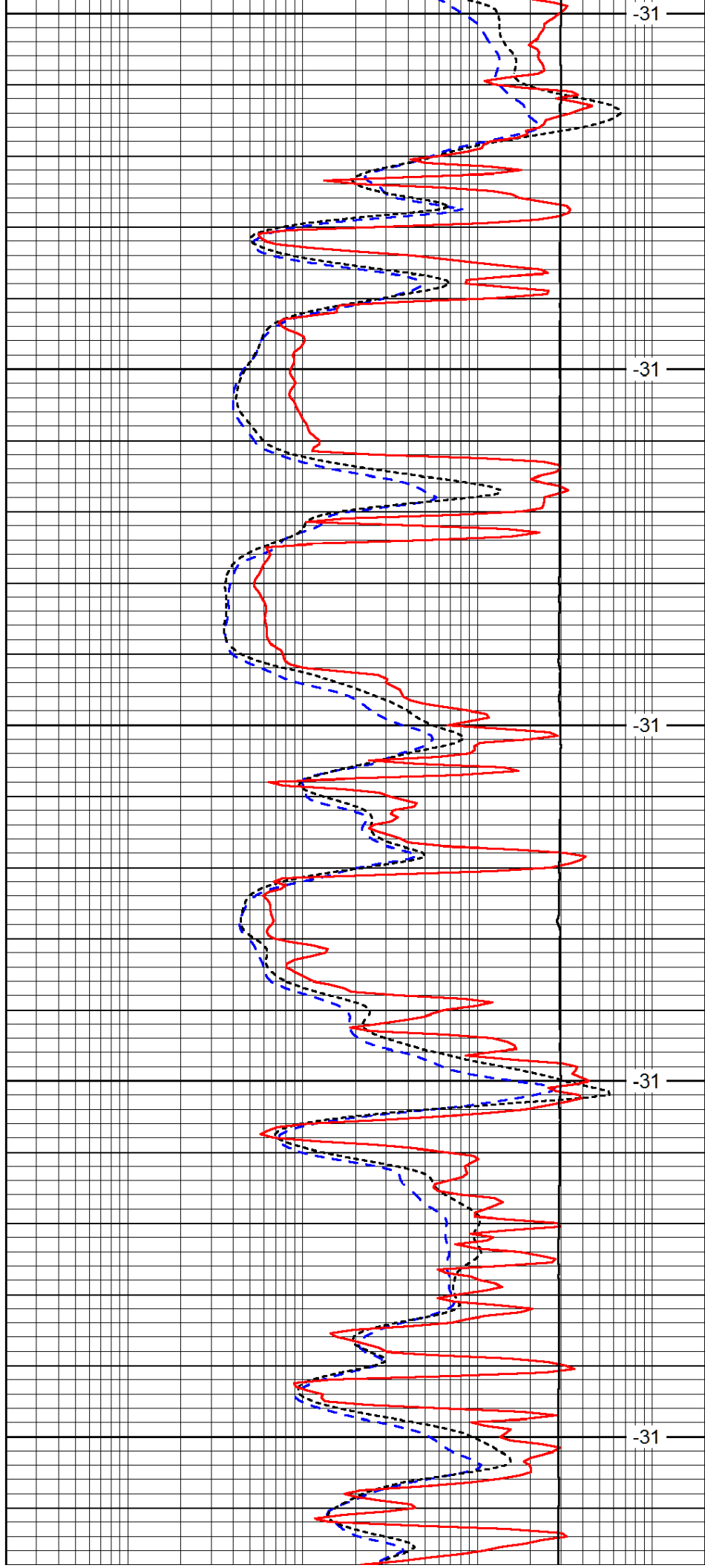
4100

4150

4200

4250

4300



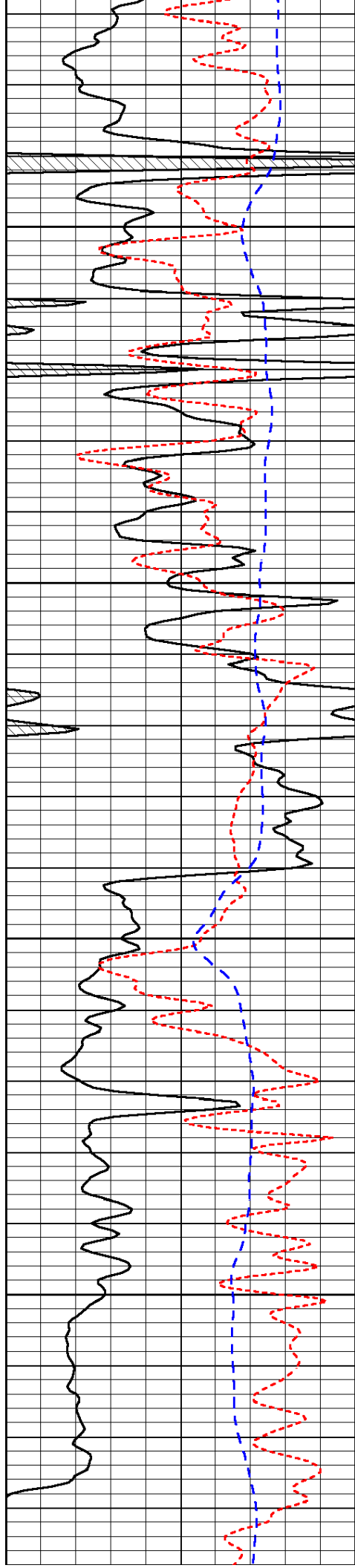
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-31

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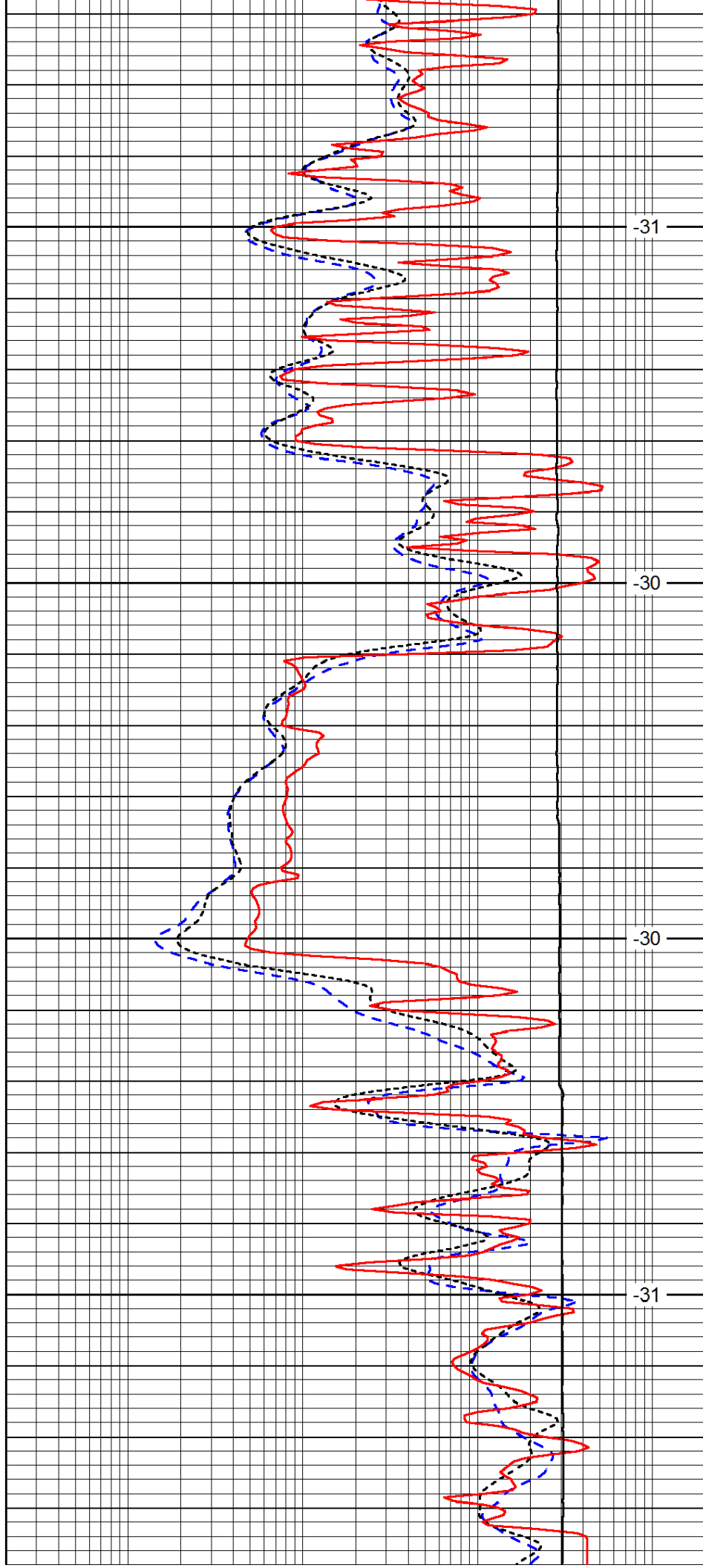


4350

4400

4450

4500



-31

-30

-30

-31

