



Pioneer Energy Services

Dual Induction Log

API No.

15-063-22, 105-00-00

Company H & C Oil Operating, Inc.

Well Bentley-Rover Unit No.29-1

Field Wildcat

County Gove State Kansas

Location 2310' FNL & 2640' FEL

Sec: 29 Twp: 15S Rge: 27W

Permanent Datum Ground Level Elevation 2461

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

Drilling Measured From Kelly Bushing Elevation 2472

Date 8/1/2013

Run Number One

Depth Driller 4370

Depth Logger 4372

Bottom Logged Interval 4371

Top Log Interval 250

Casing Driller 8.625 @ 266

Casing Logger 266

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 3,000

Density / Viscosity 9.4 62

pH / Fluid Loss 9.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp .75 @ 84

Rmf @ Meas. Temp .56 @ 84

Rmc @ Meas. Temp 1.01 @ 84

Source of Rmf / Rmc Charts

Rm @ BHT .53 @ 120

Operating Rig Time 4 Hours

Max Rec. Temp. F 120

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Marc Downing

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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

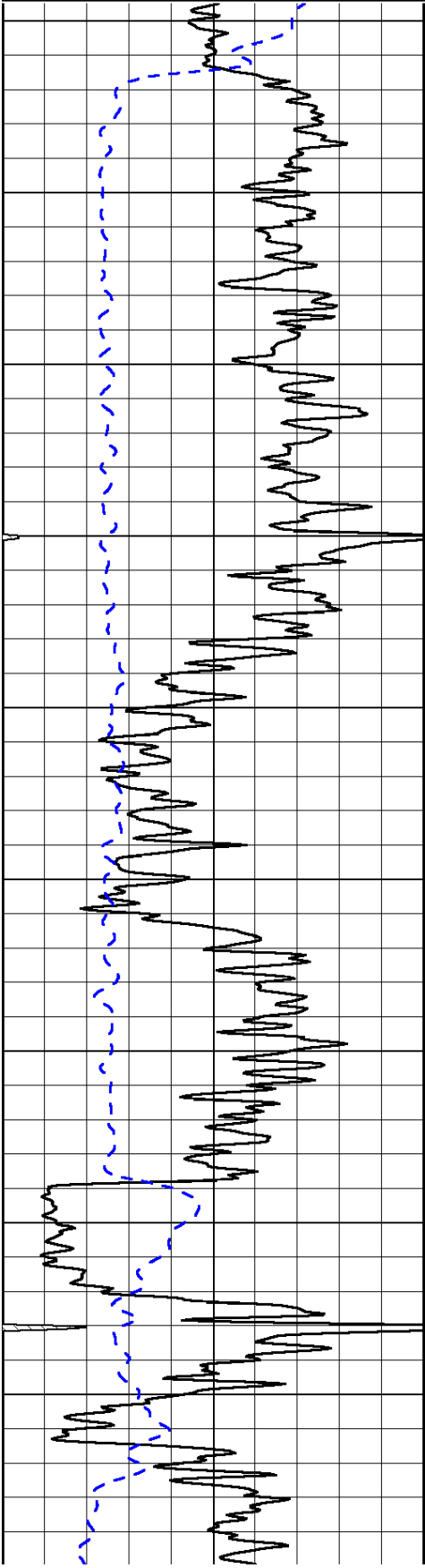
Thank you for using Log-Tech, Inc.
(785) 625-3858

Pendennis KS, E Edge,
N on Red Chief Rd to B Rd,
1/2 WNW, N Into

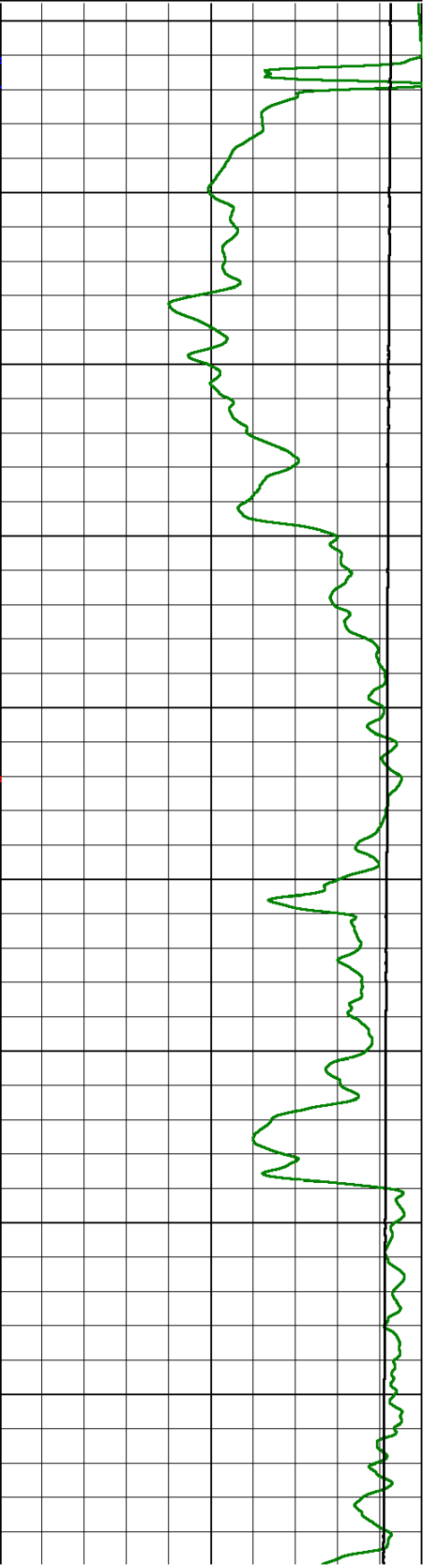
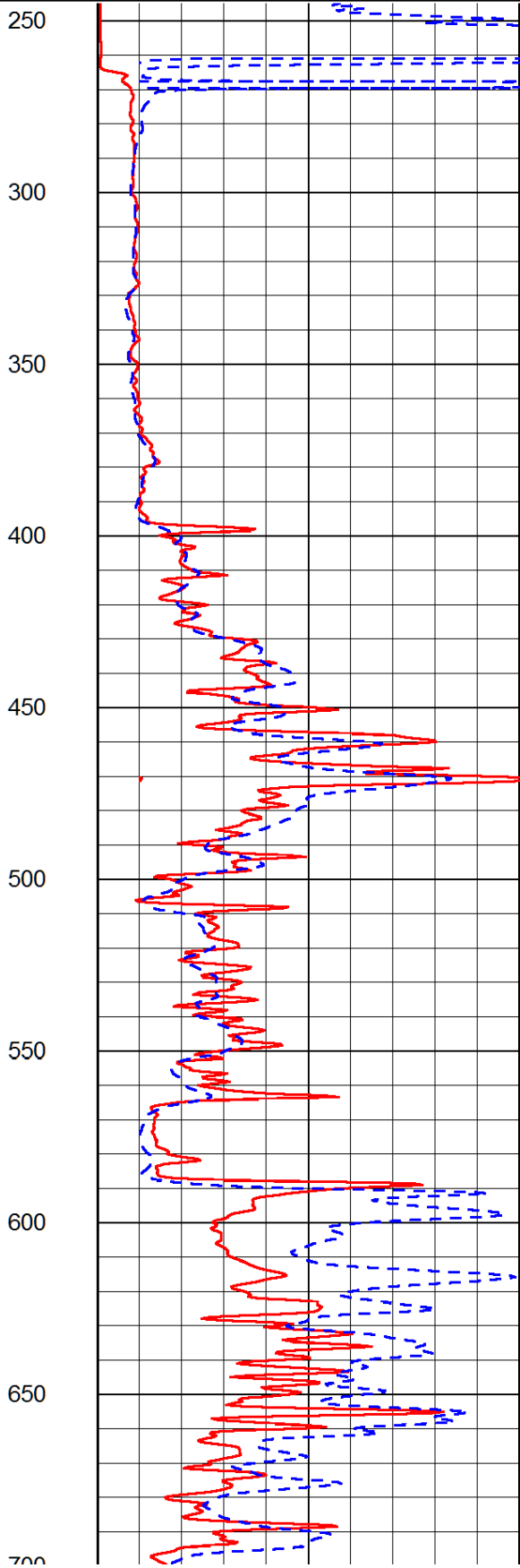
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Dataset Creation: Thu Aug 01 19:17:17 2013
Charted by: Depth in Feet scaled 1:600

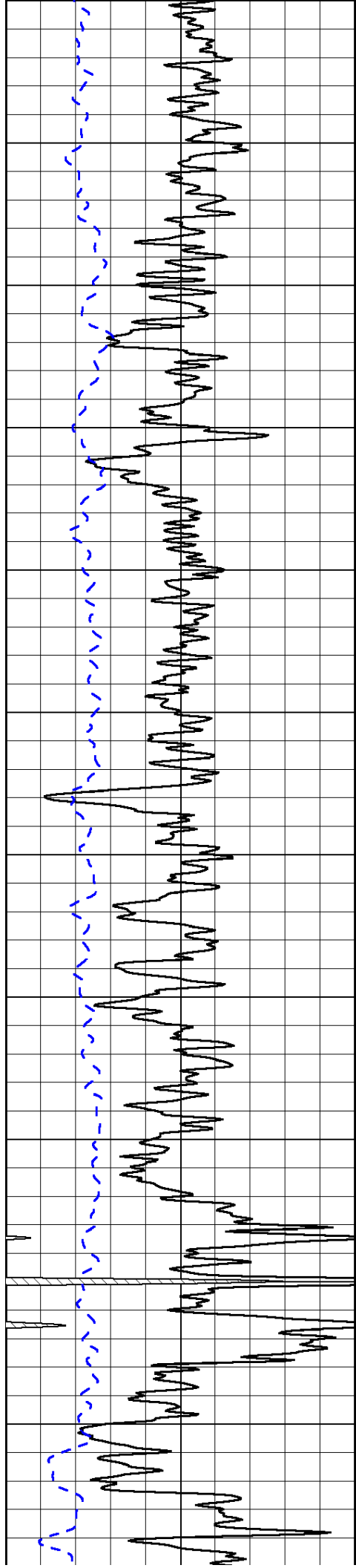
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0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

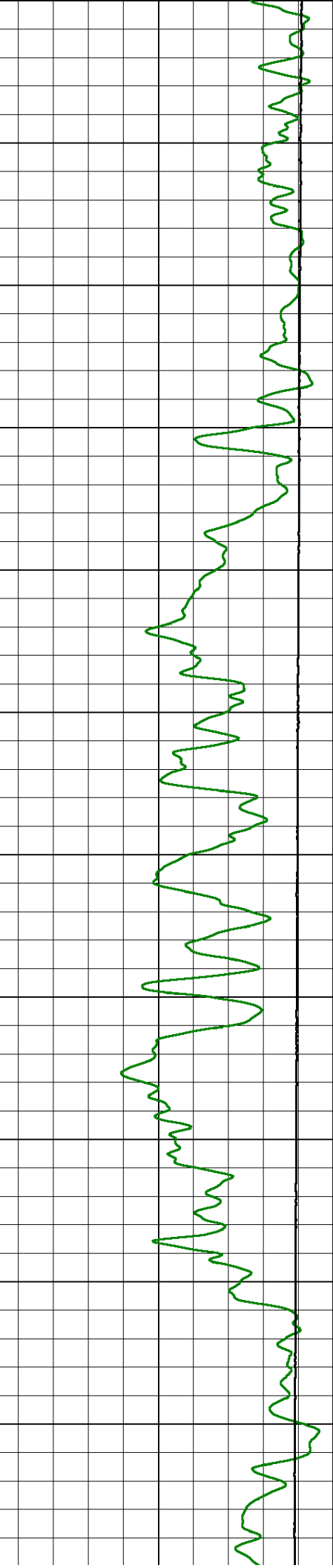
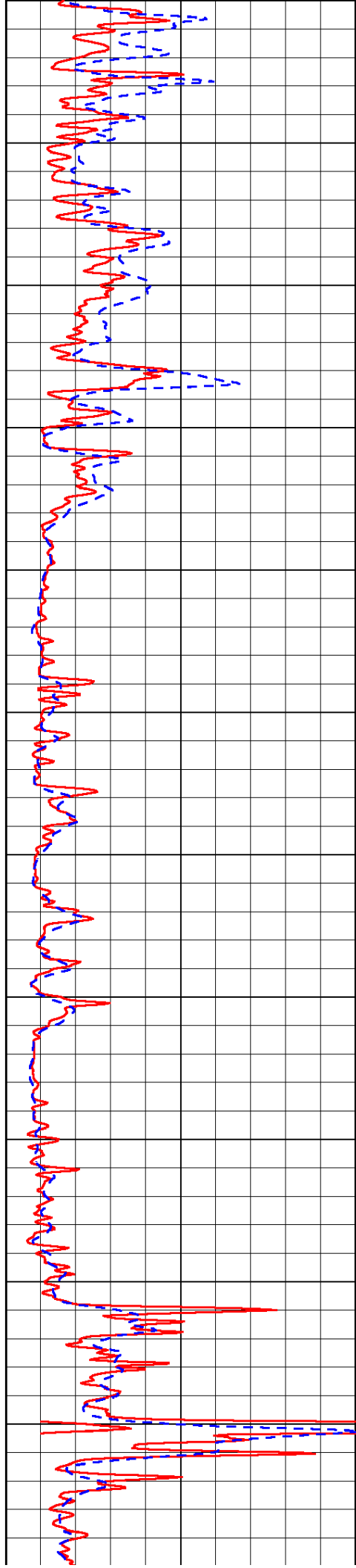


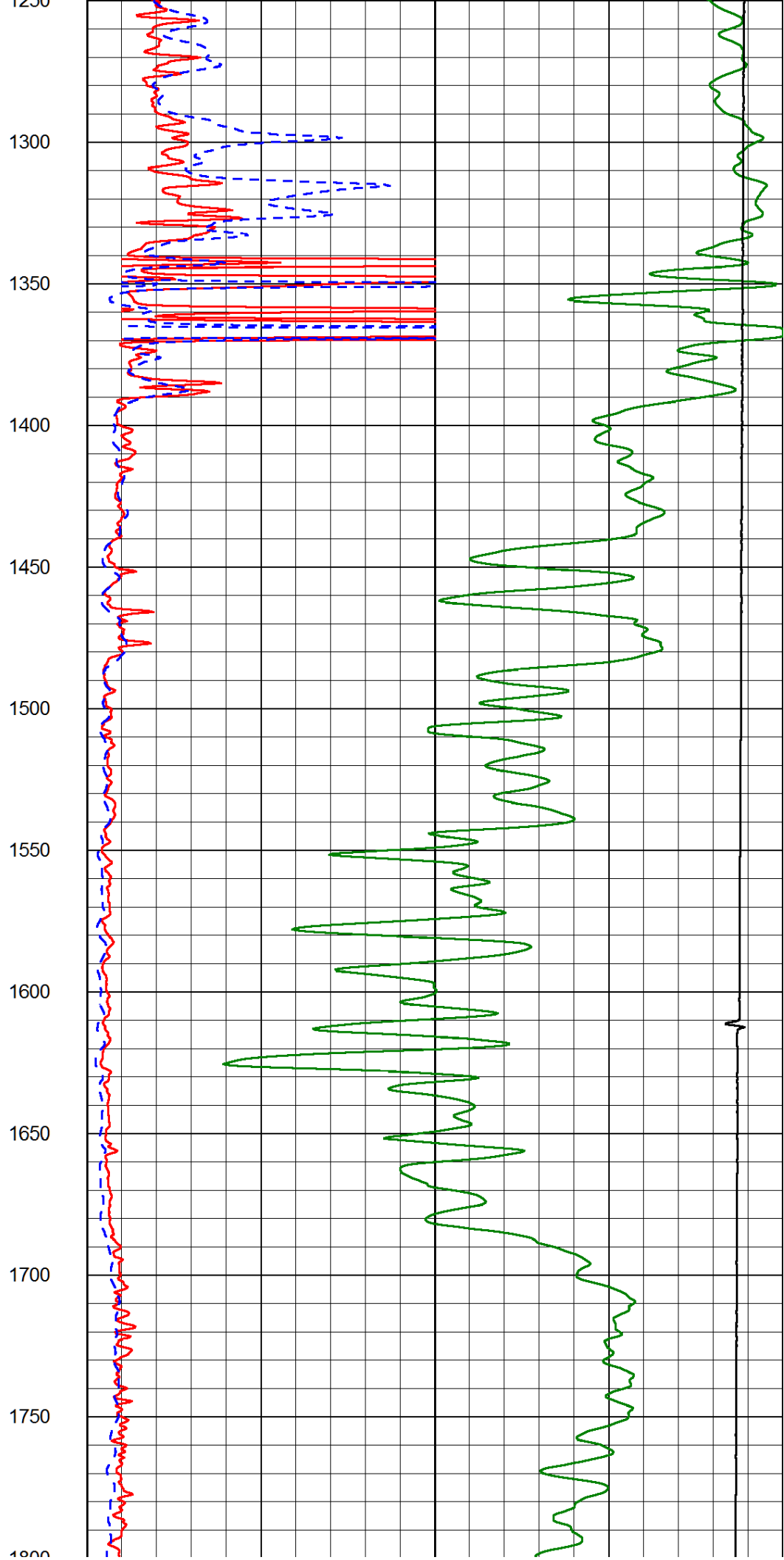
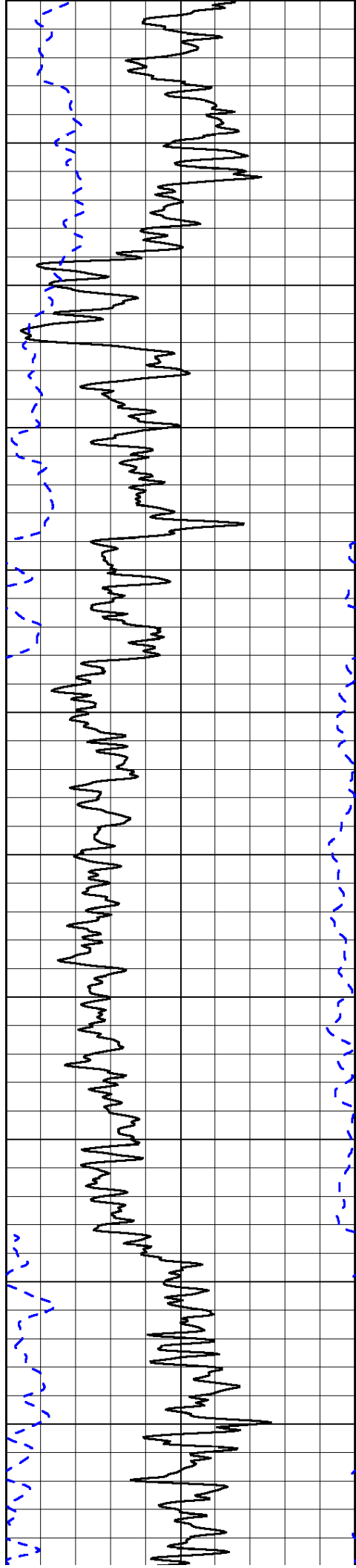
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

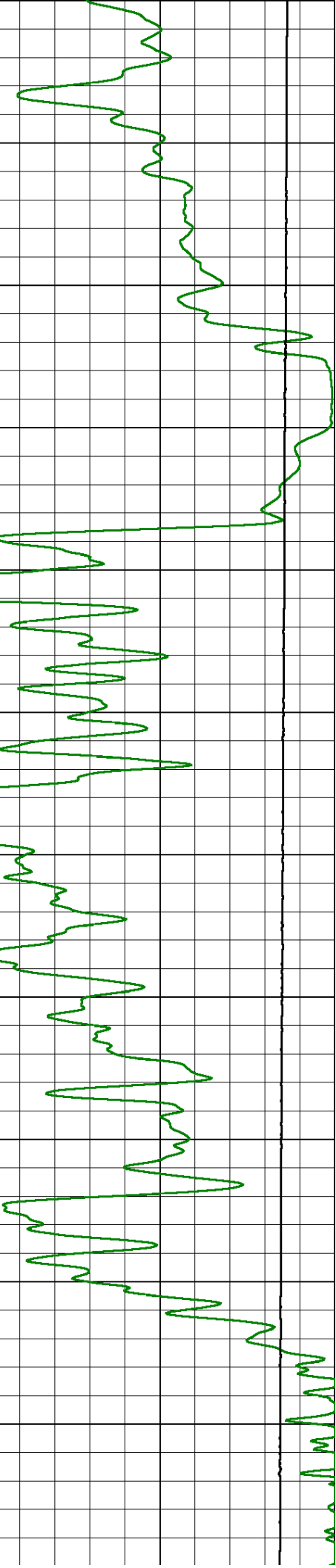
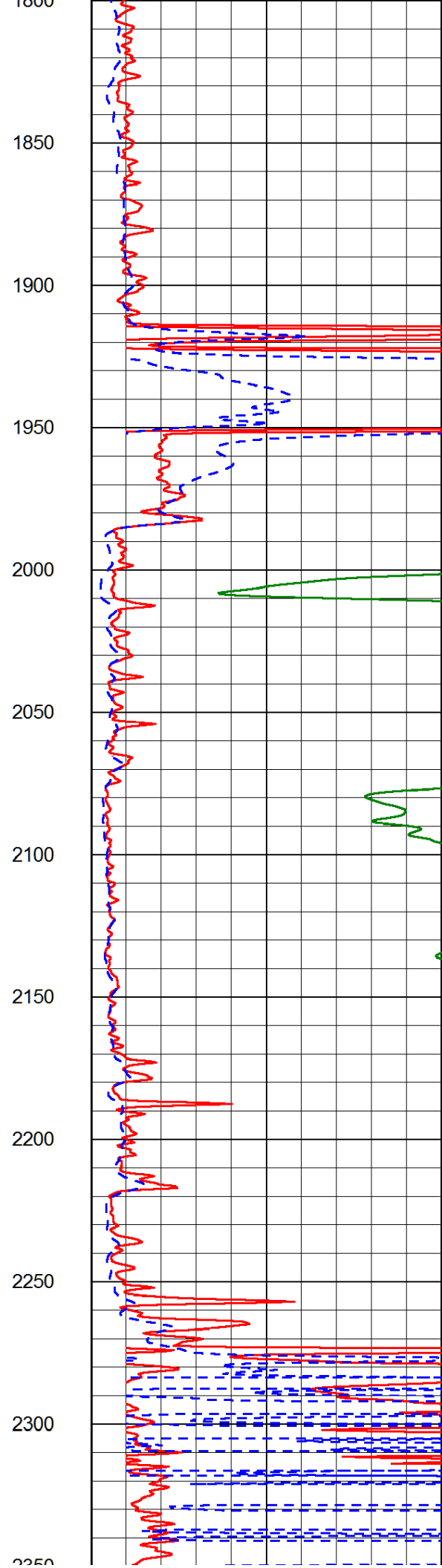
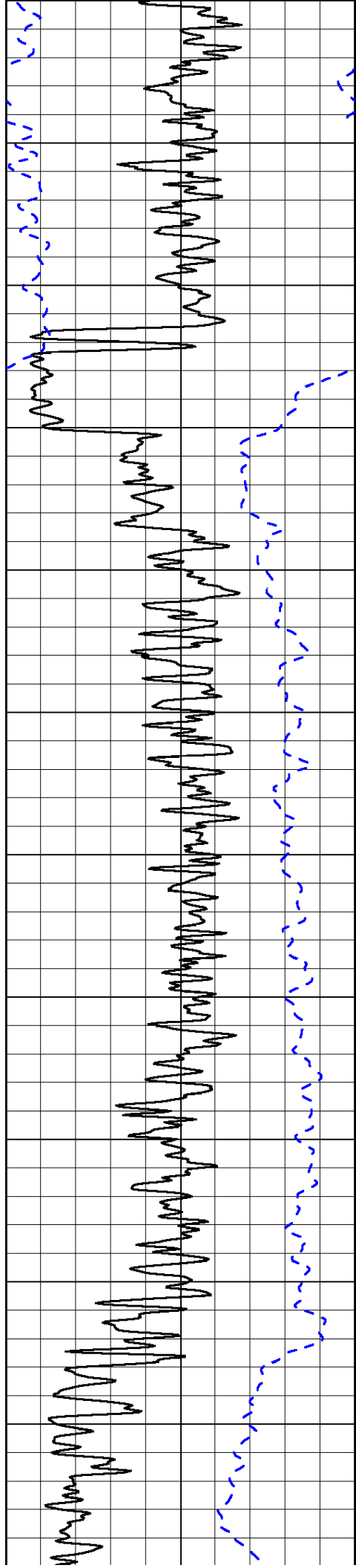


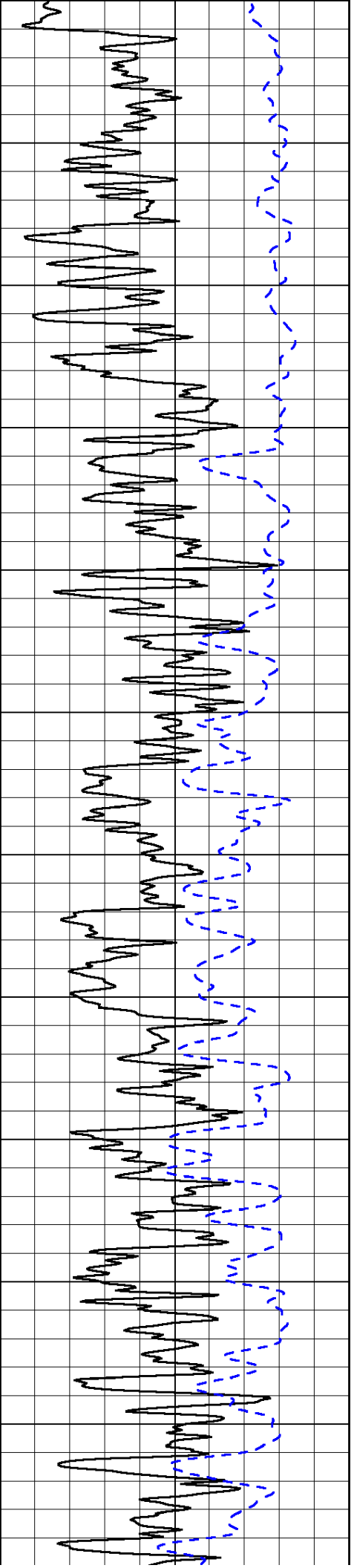
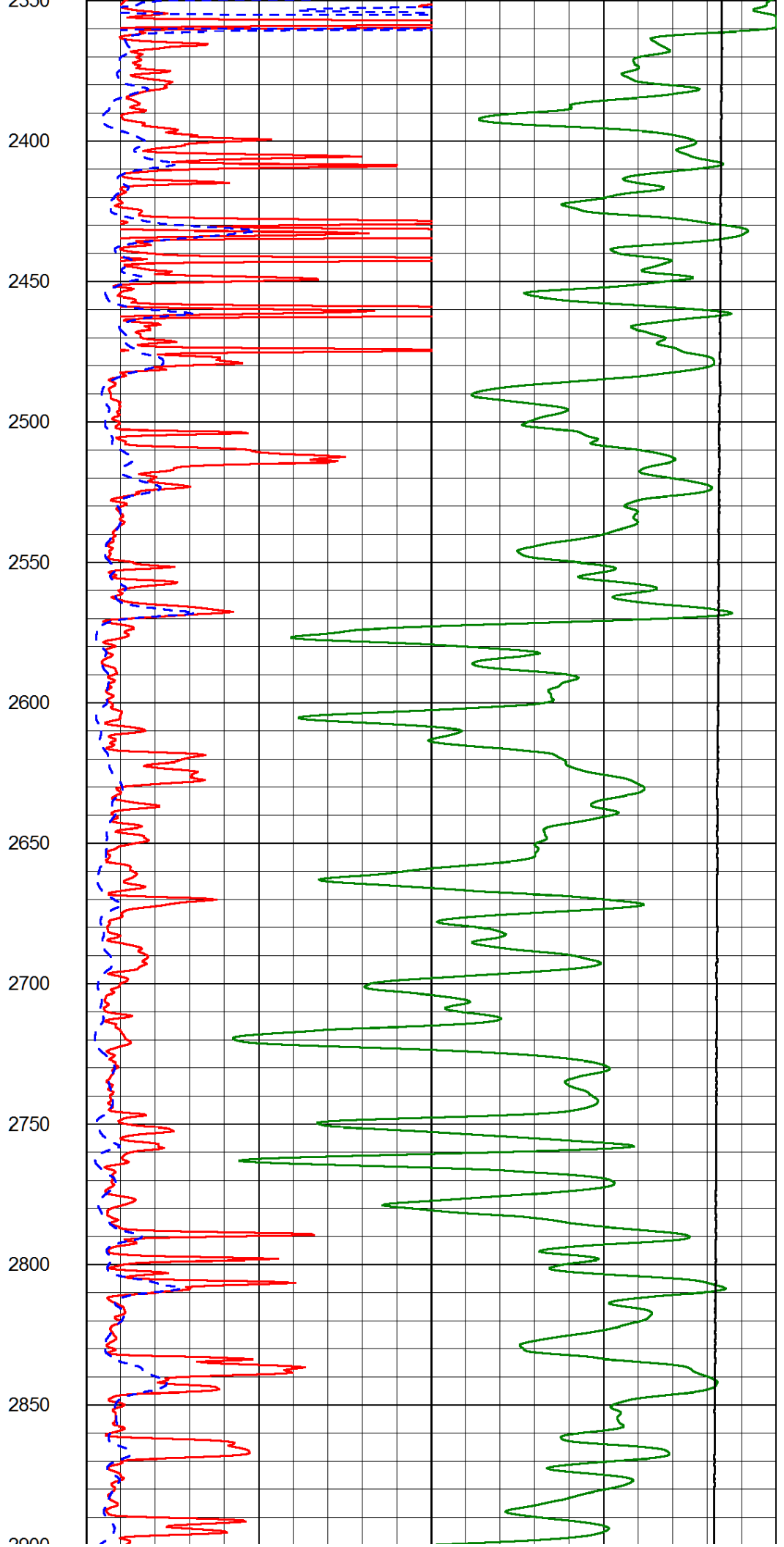


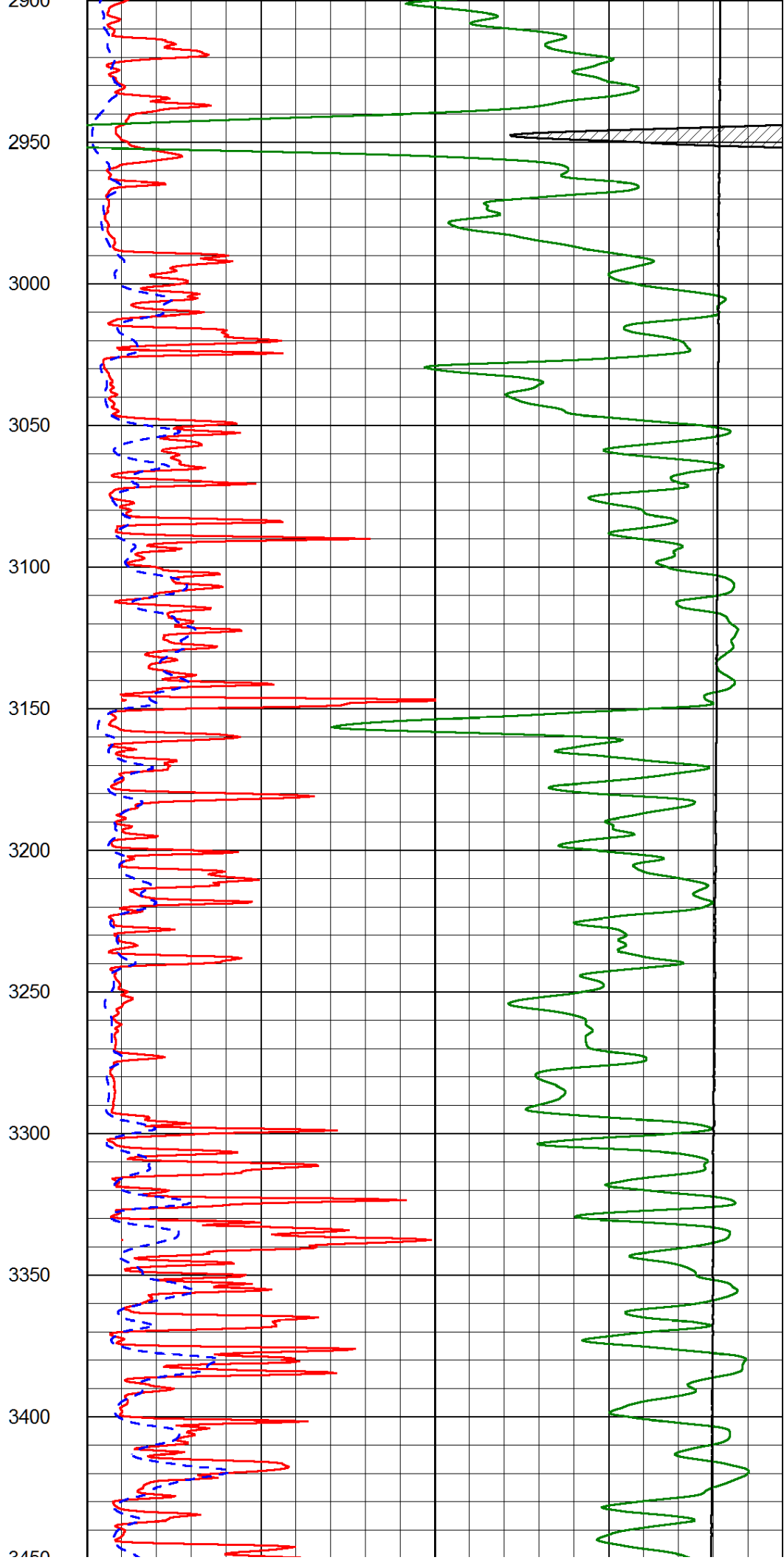
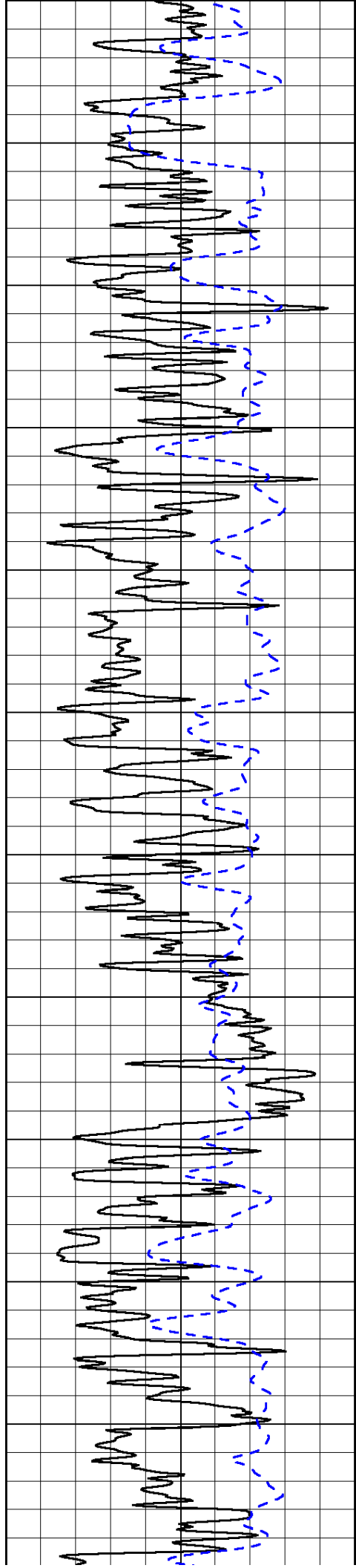
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250

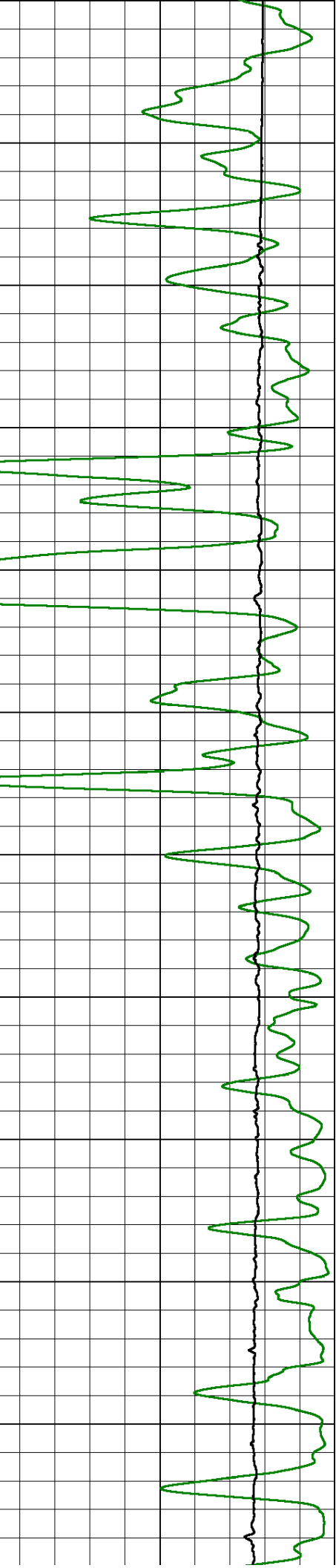
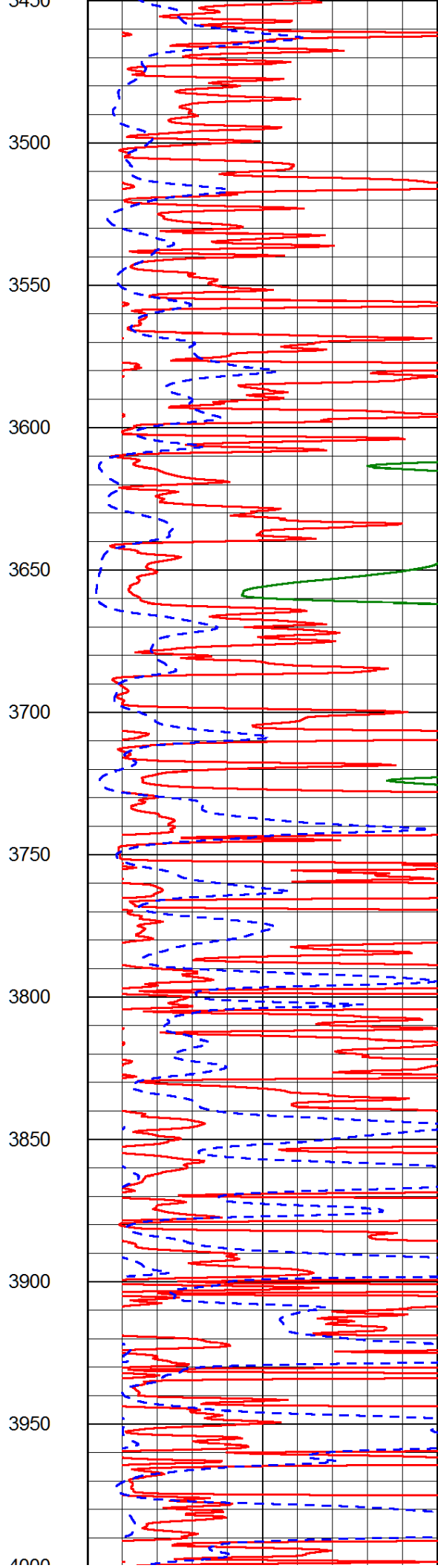
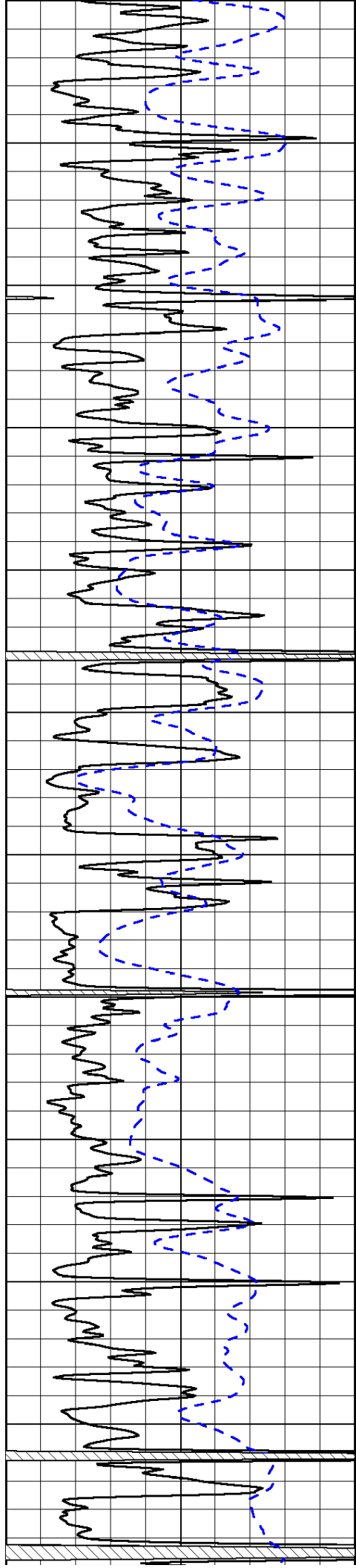


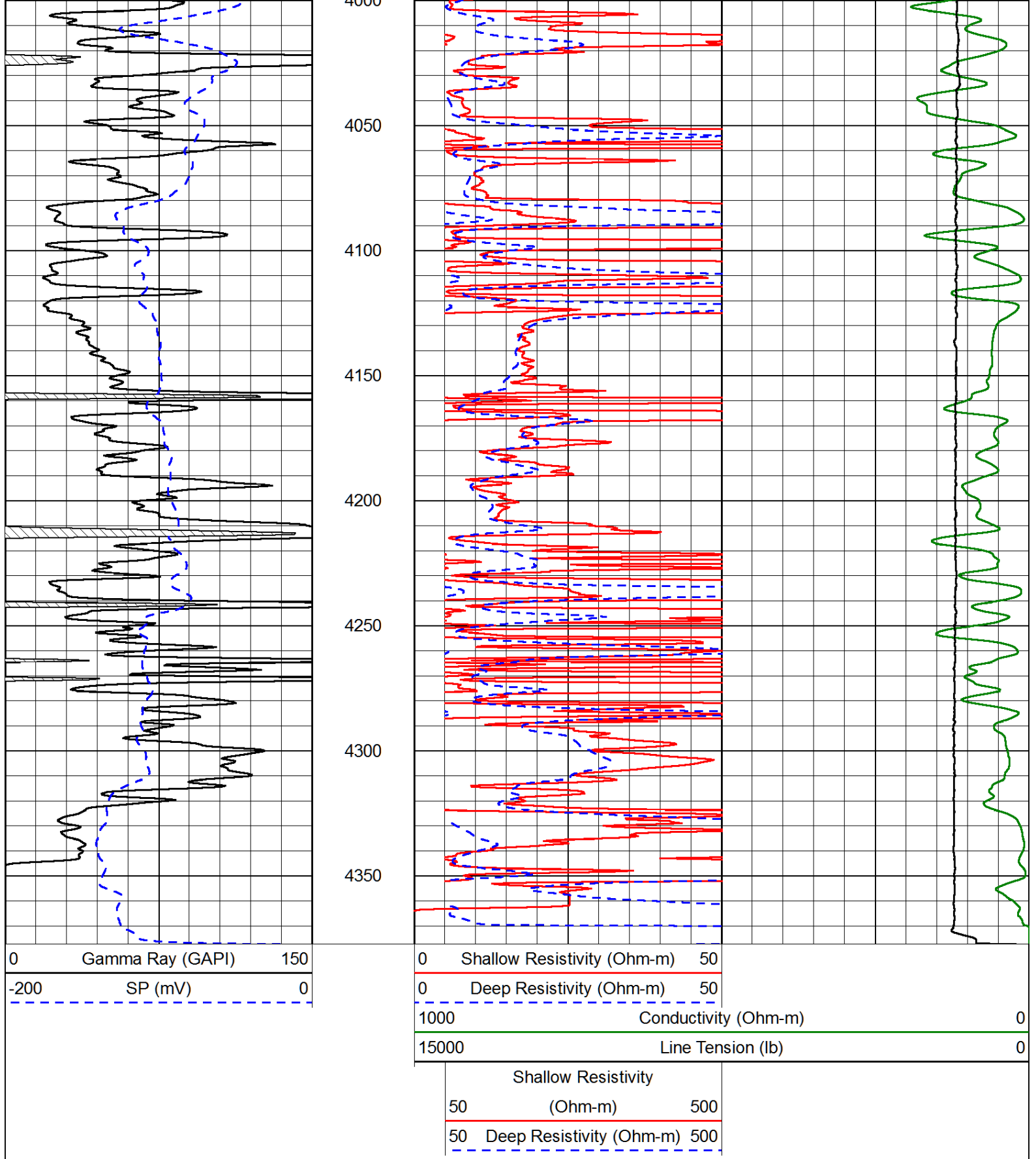




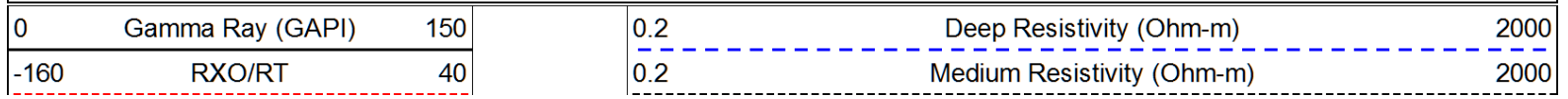


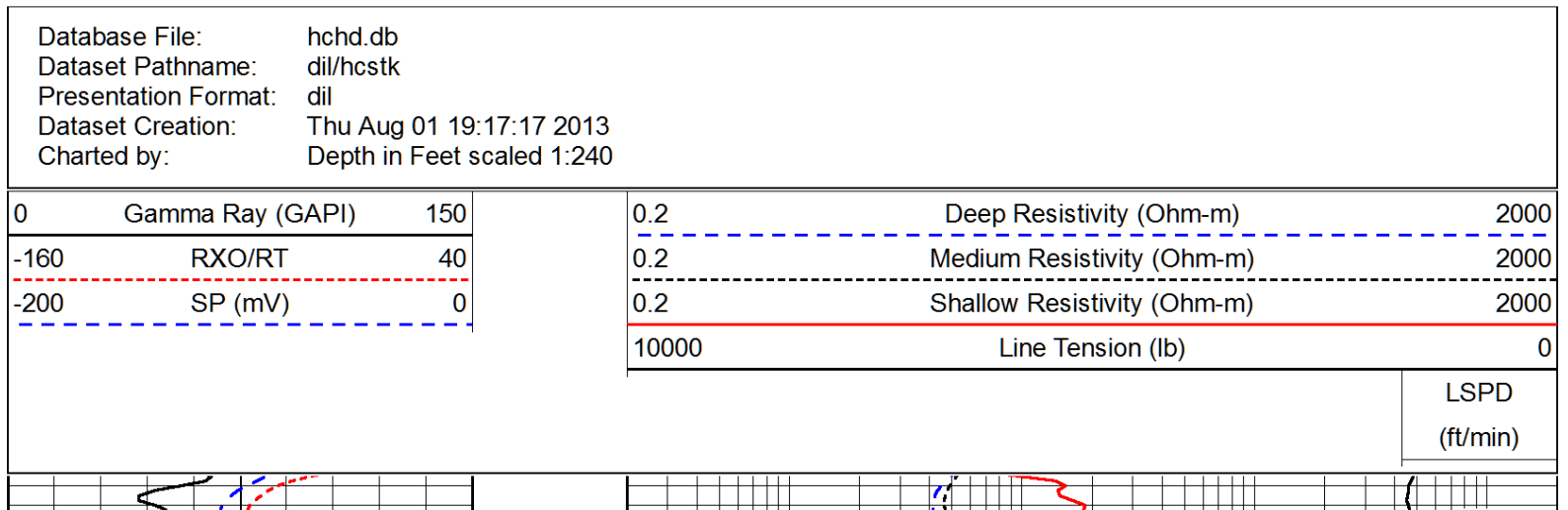
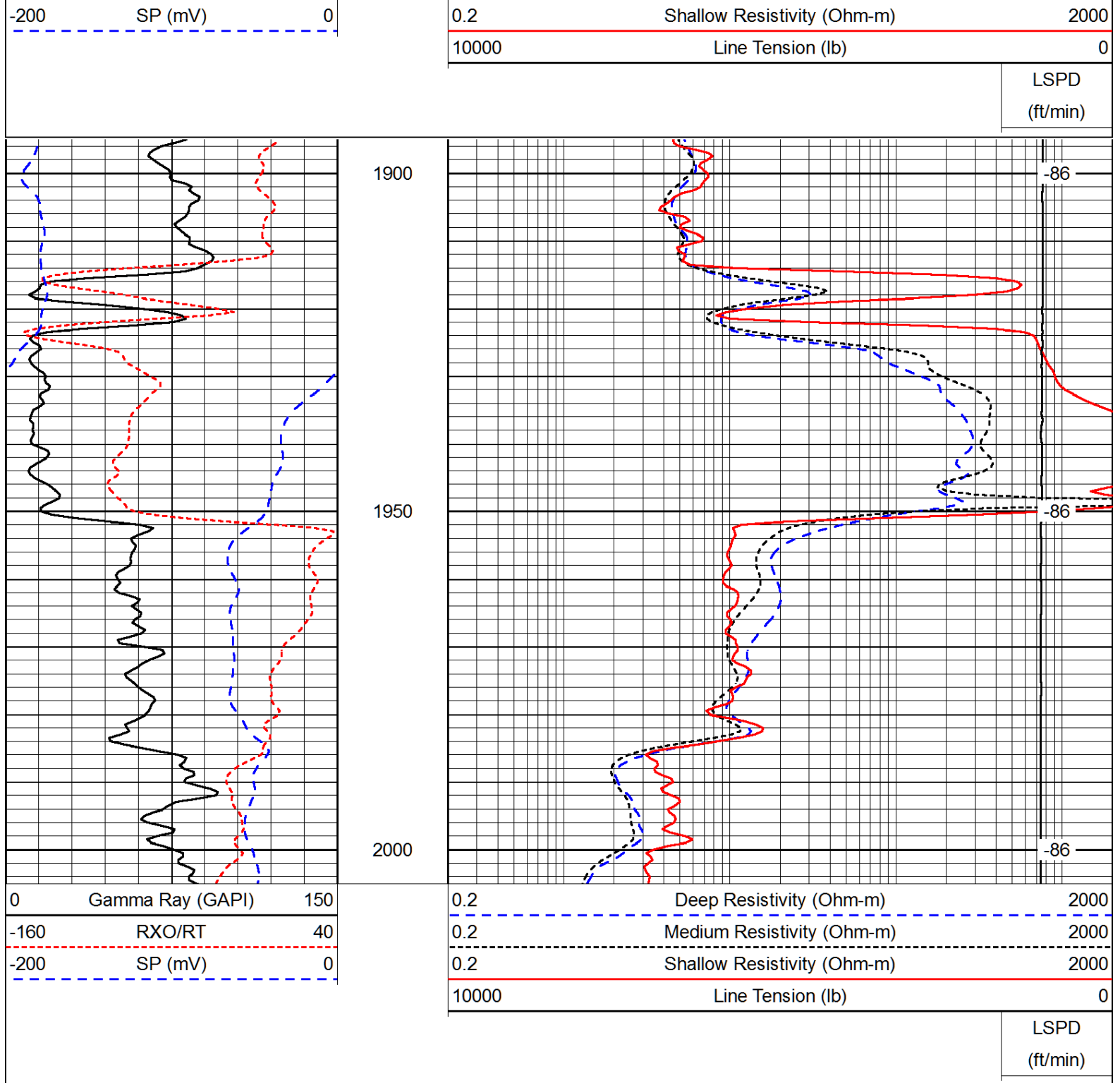


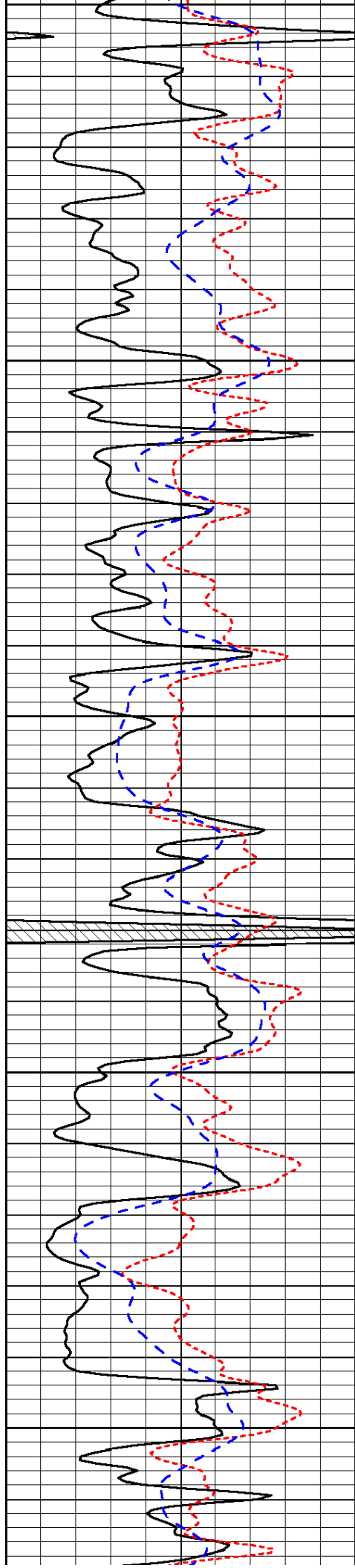




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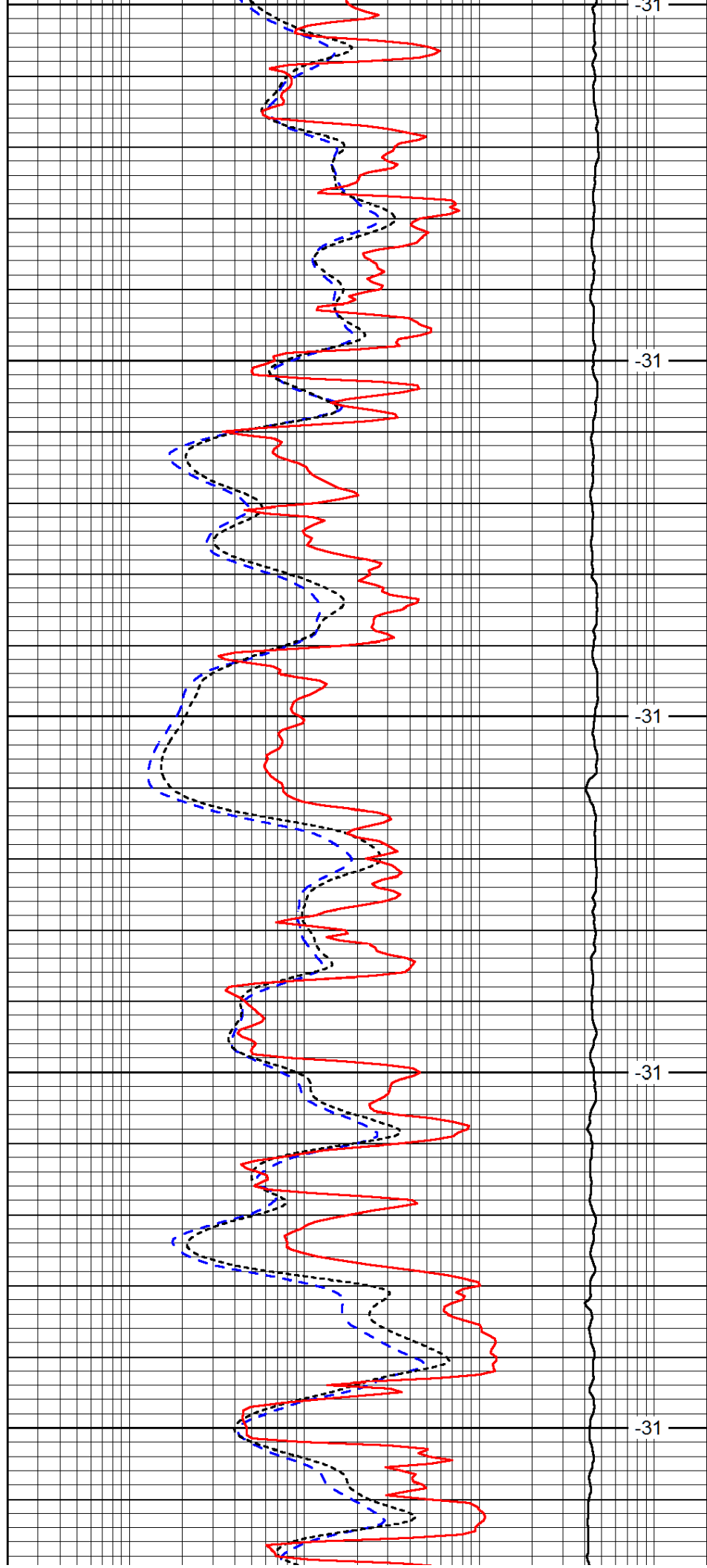
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3600

3650

3700

3750



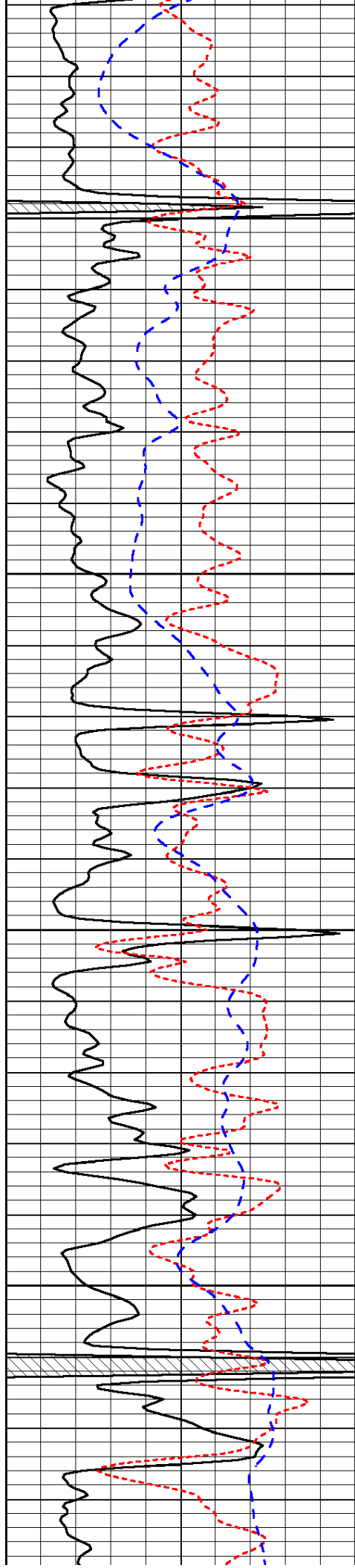
-31

-31

-31

-31

-31

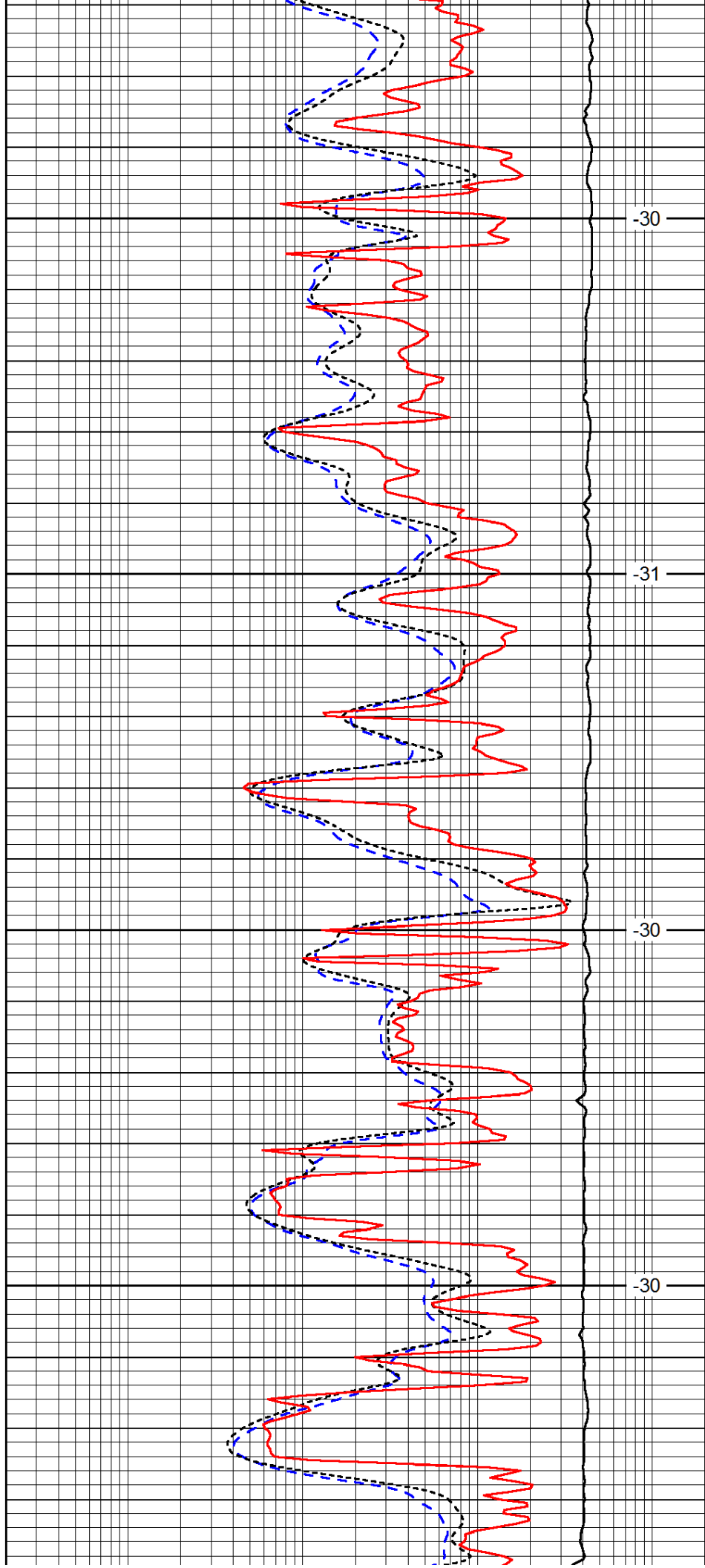


3800

3850

3900

3950

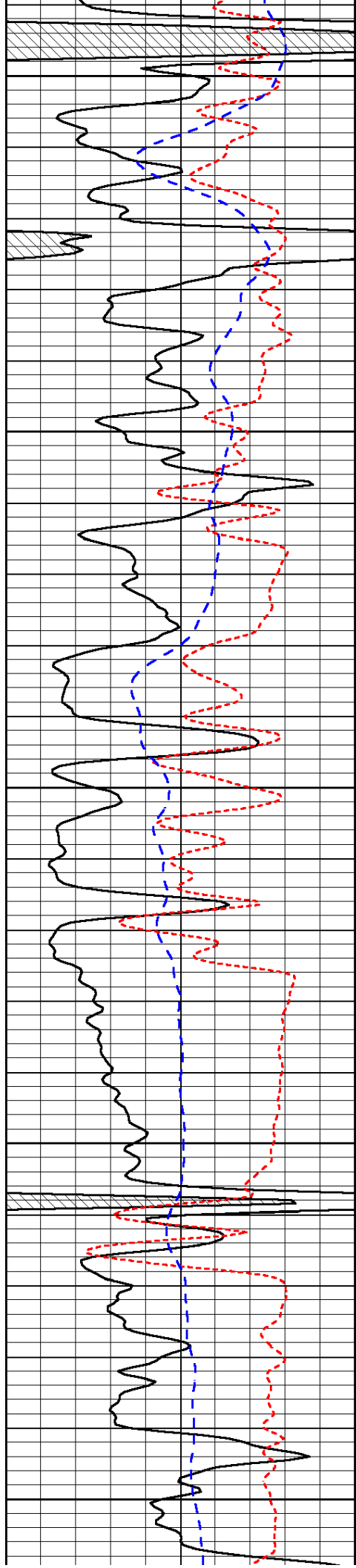


-30

-31

-30

-30



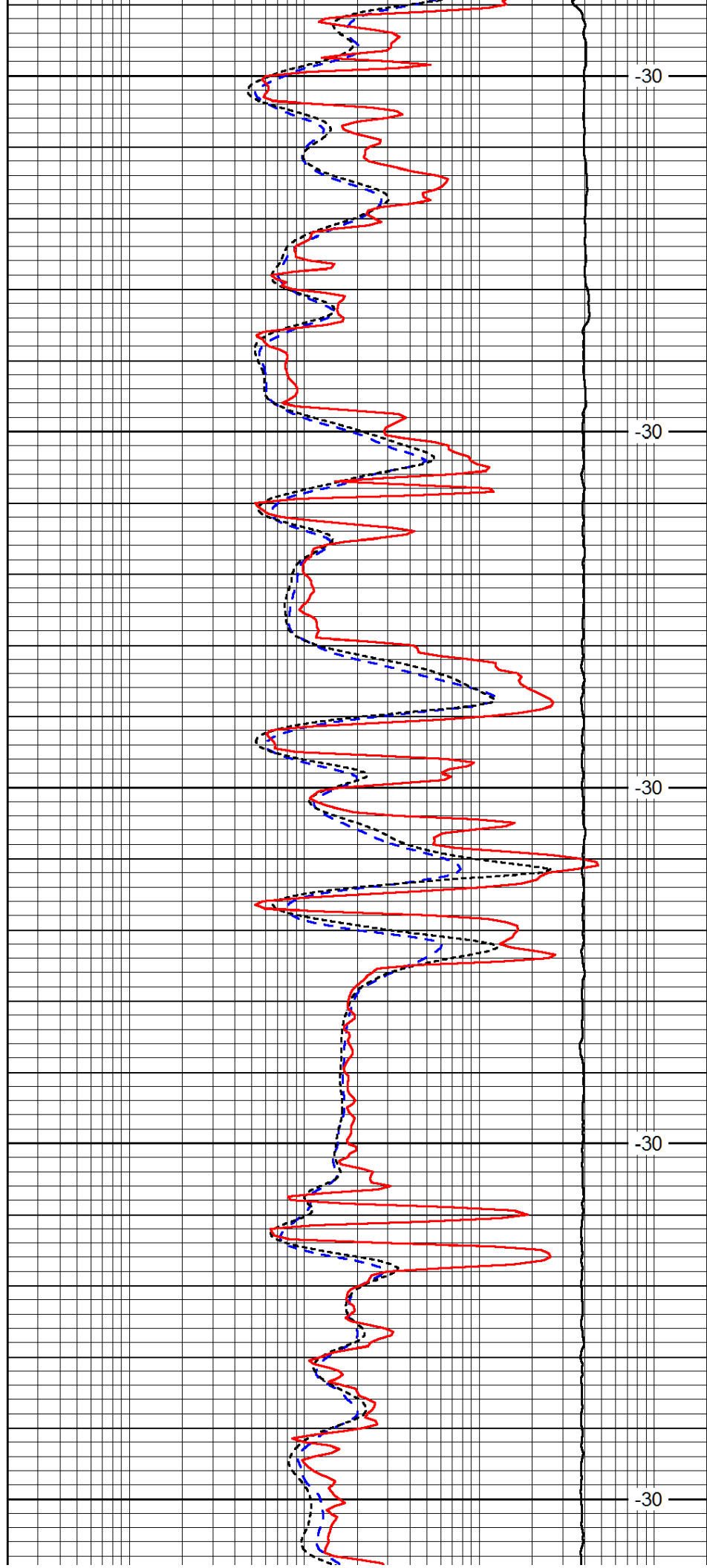
4000

4050

4100

4150

4200



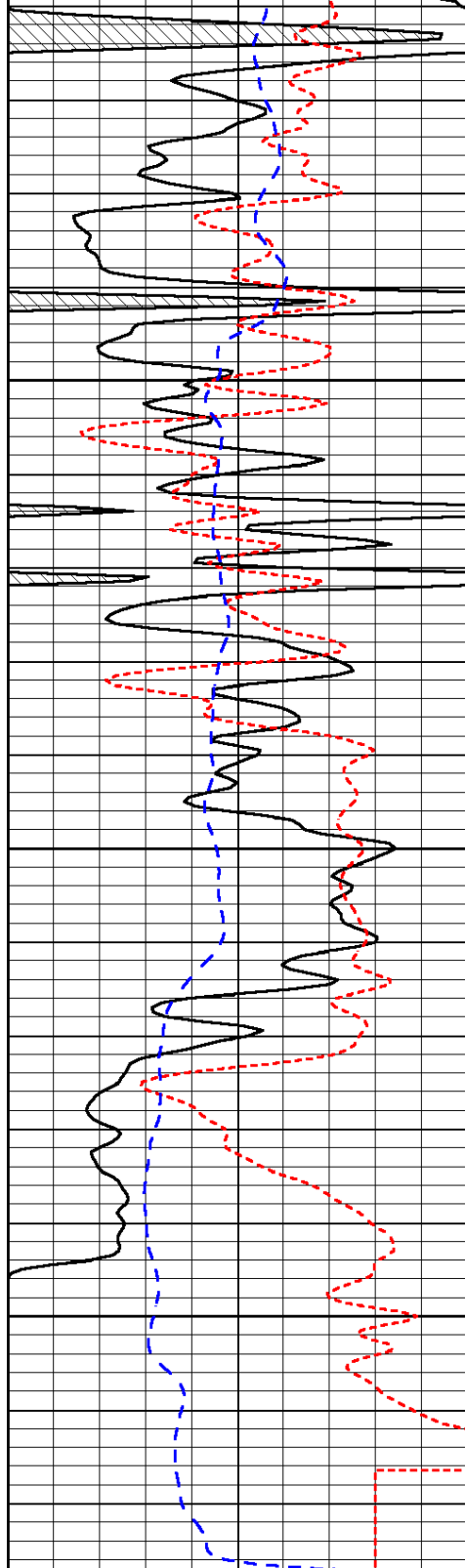
-30

-30

-30

-30

-30

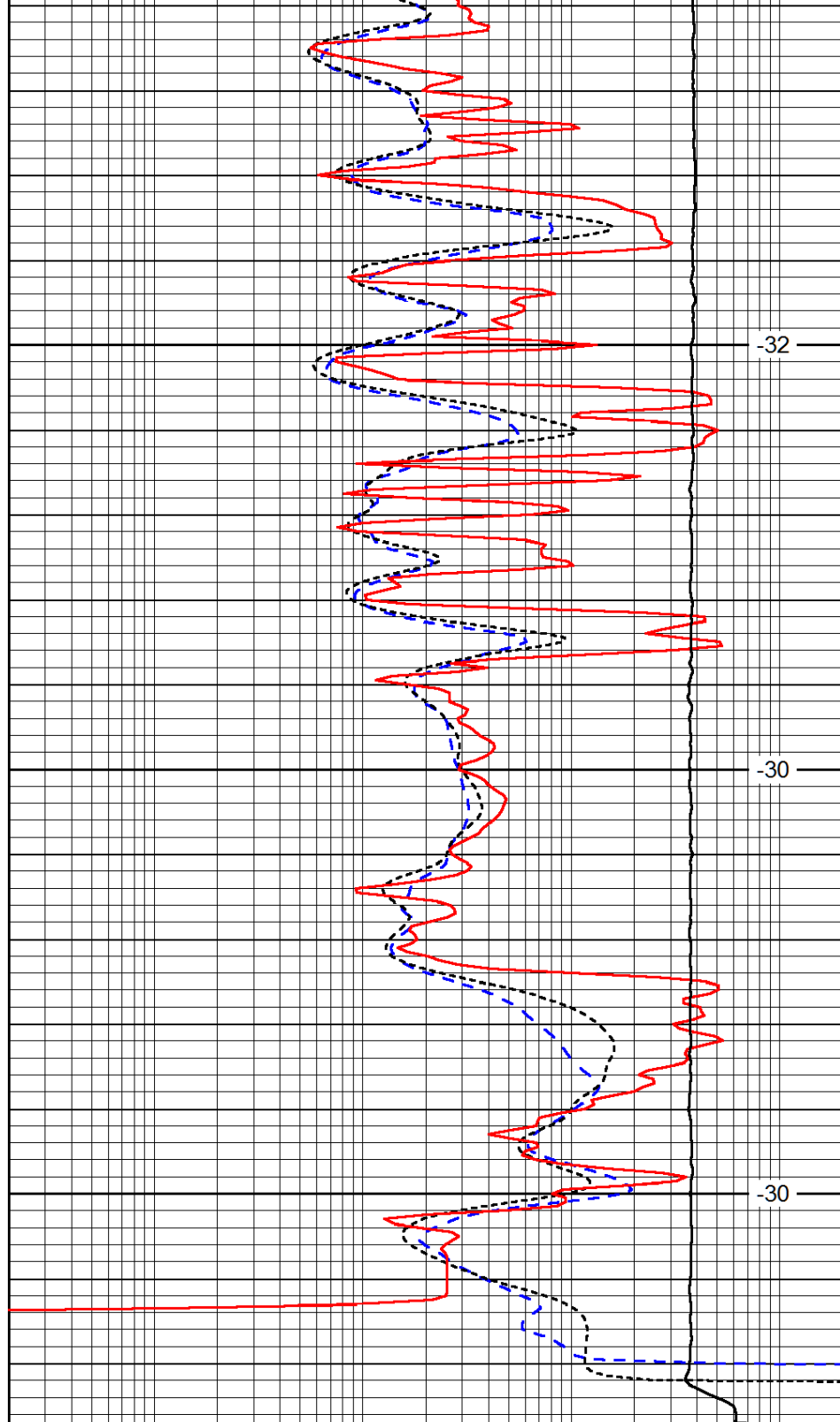


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4250

4300

4350



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)