



Pioneer Energy Services

## Dual Induction Log

API No.

15-007-24,116-00-00

Company R&B Oil & Gas, Inc.

Well Lenkner "A" No.1

Field Lukens

County Barber State Kansas

Location NW/NW/SE  
2310' FSL & 2310' FEL

Other Services  
CNL/CDL

Sec: 28 Twp: 32S Rge: 11W

Permanent Datum Ground Level Elevation 1490  
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Elevation  
K.B. 1500  
D.F. 1490  
G.L. 1490

Date 12/23/2013

Run Number One

Depth Driller 4816

Depth Logger 4789

Bottom Logged Interval 4788

Top Log Interval 250

Casing Driller 8.625 @ 268

Casing Logger 268

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 7,000

Density / Viscosity 8.9 51

pH / Fluid Loss 9.5 10.4

Source of Sample Flowline

Rm @ Meas. Temp .85 @ 40

Rmf @ Meas. Temp .64 @ 40

Rmc @ Meas. Temp 1.15 @ 40

Source of Rmf / Rmc Charts

Rm @ BHT .27 @ 124

Operating Rig Time 3 Hours

Max Rec. Temp. F 124

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Tim Pierce

<<< Fold Here >>>

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

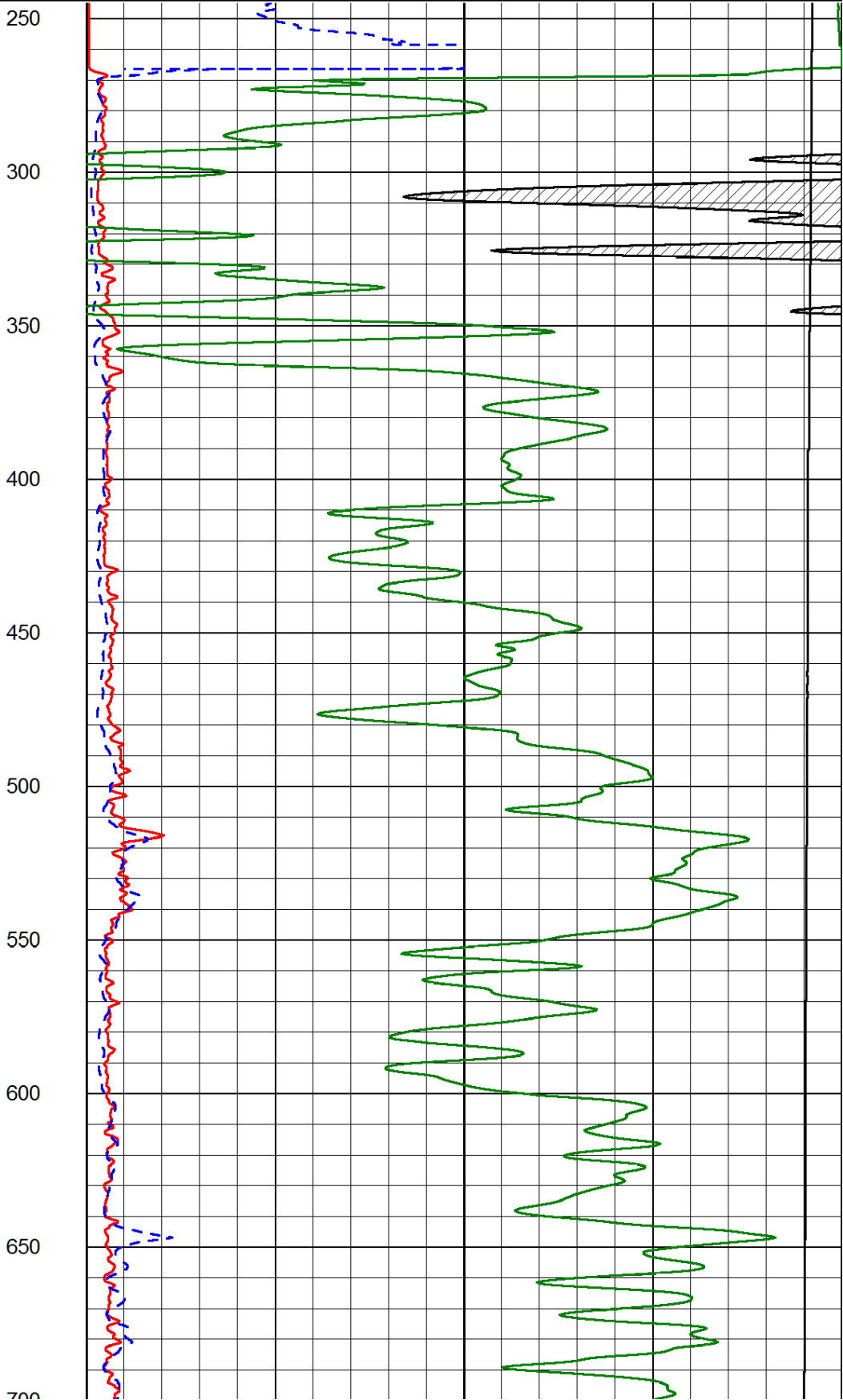
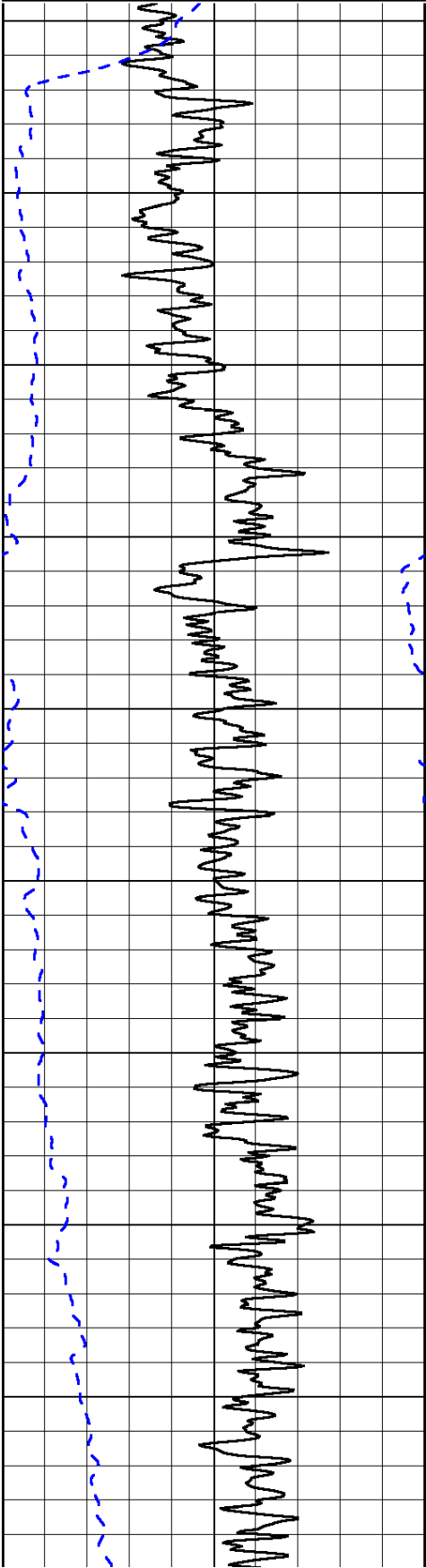
Thank you for using Log-Tech, Inc.  
(785) 625-3858

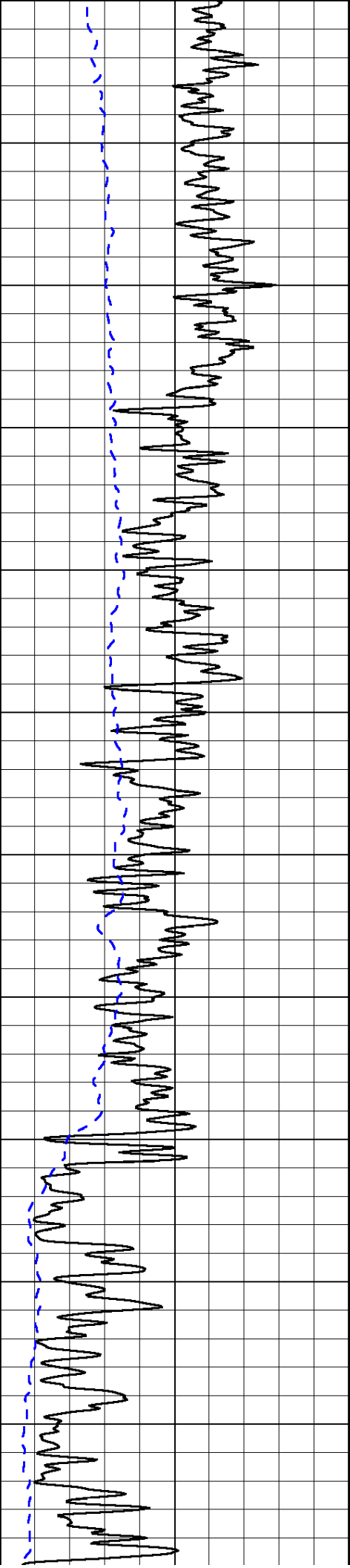
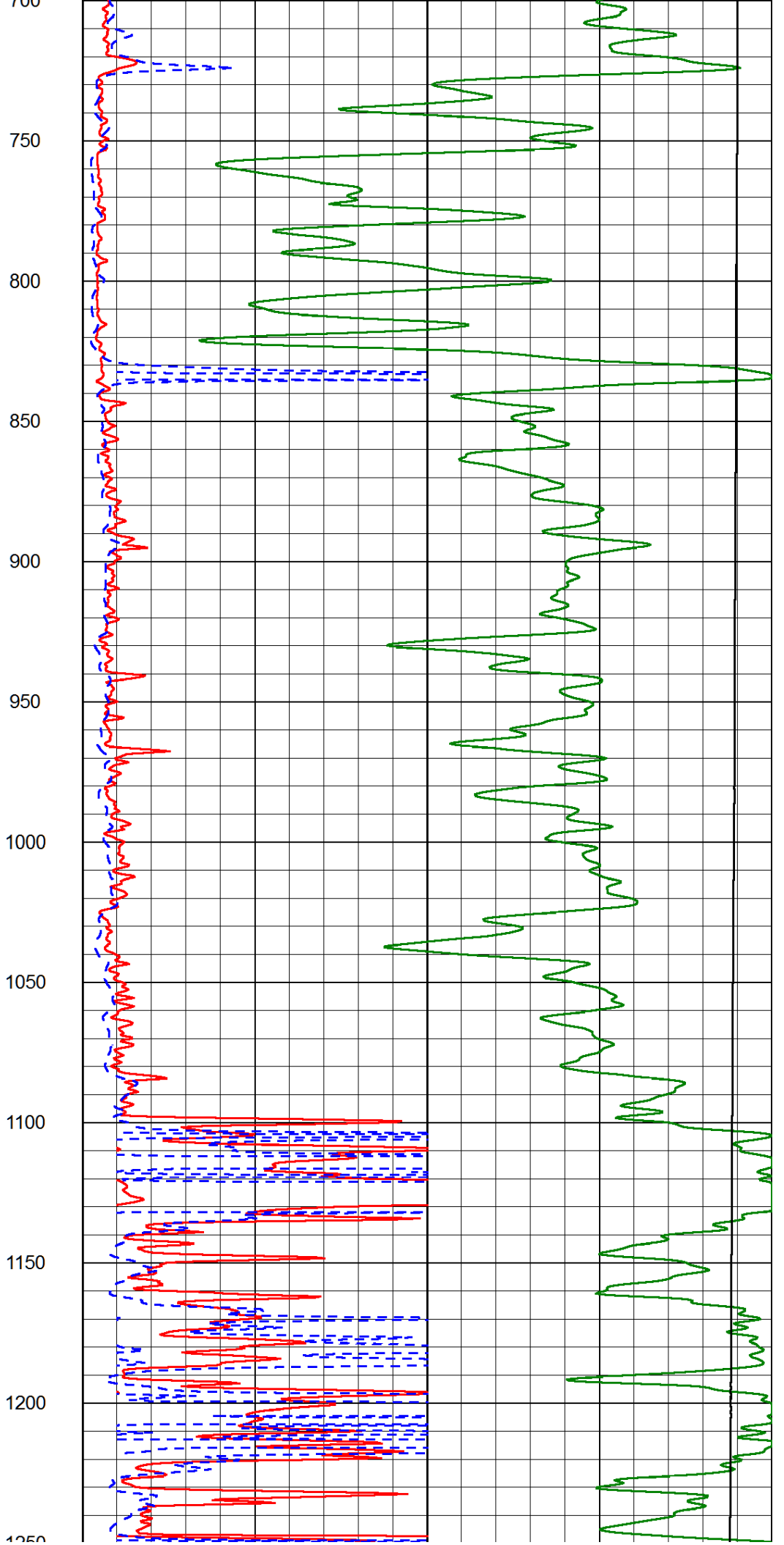
Medicine Lodge KS,  
4 E, 1 1/2 S, W Into

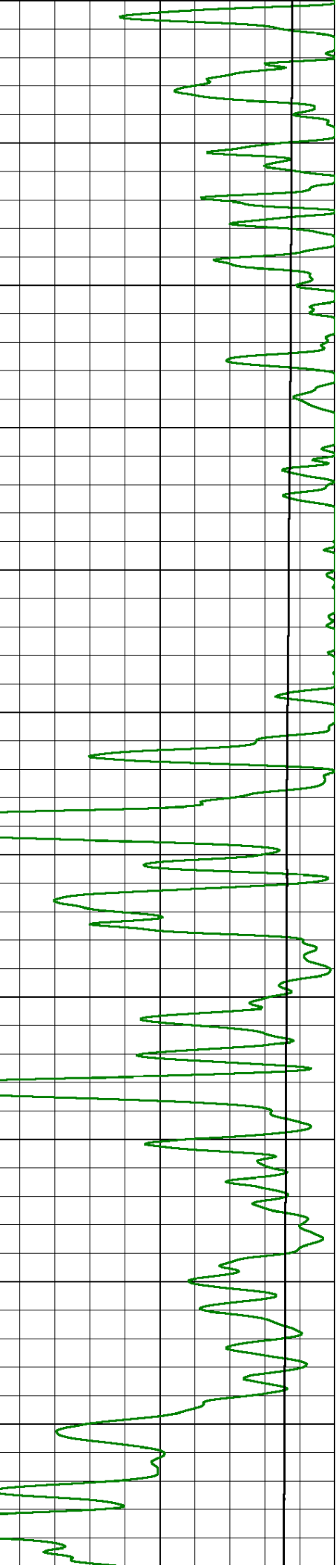
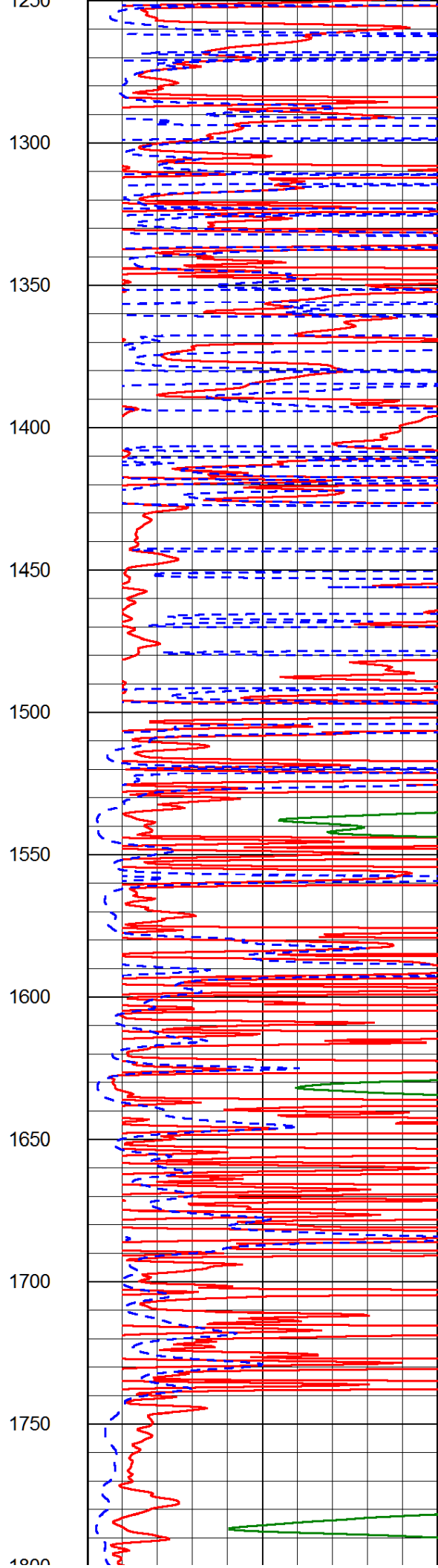
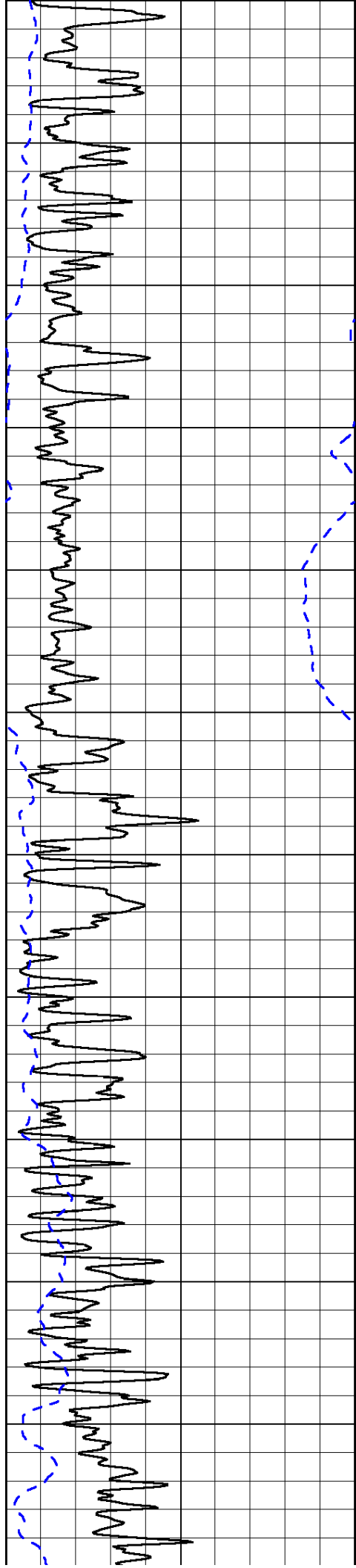
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Presentation Format: dil2in  
Dataset Creation: Mon Dec 23 09:29:06 2013  
Charted by: Depth in Feet scaled 1:600

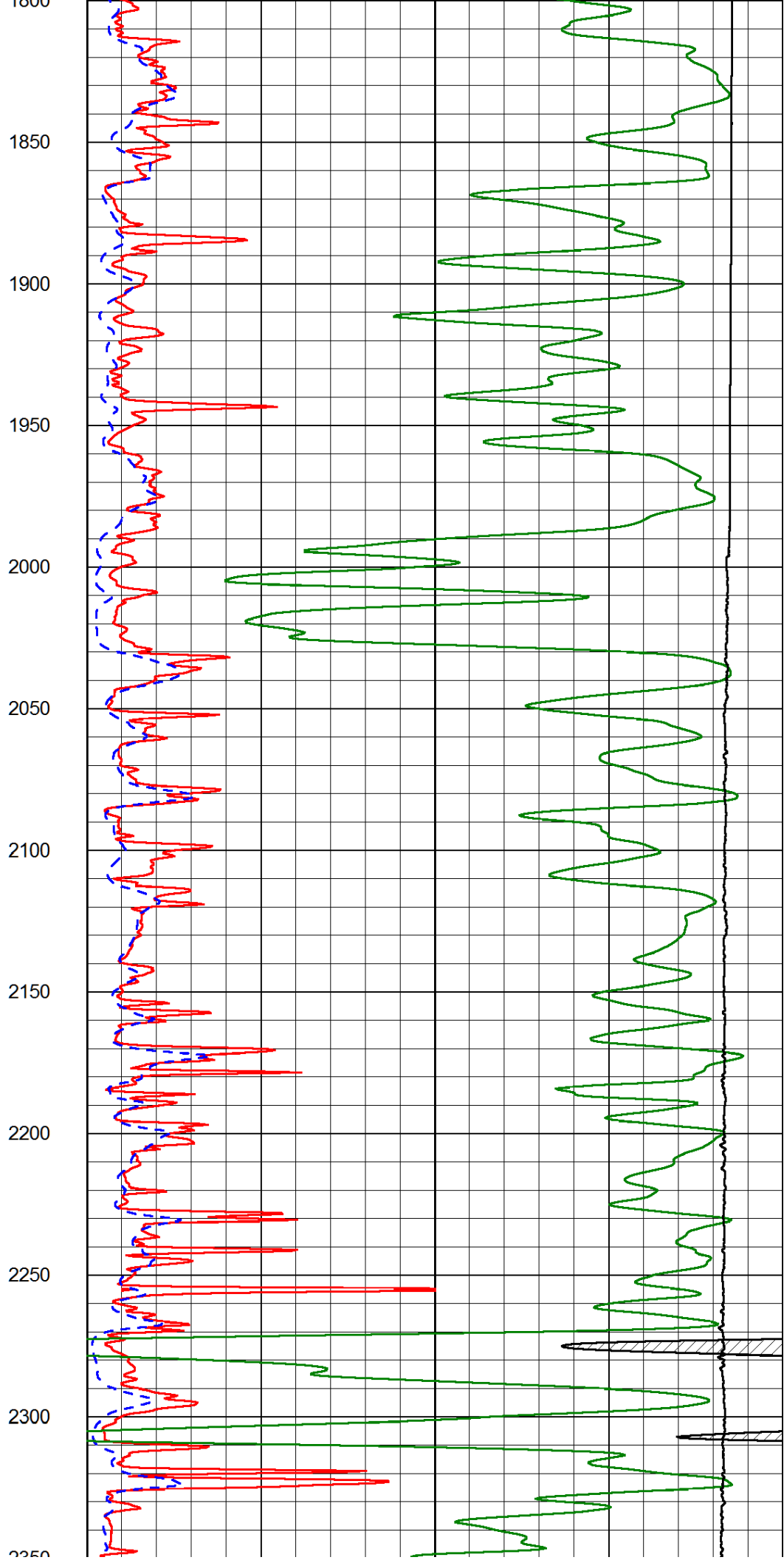
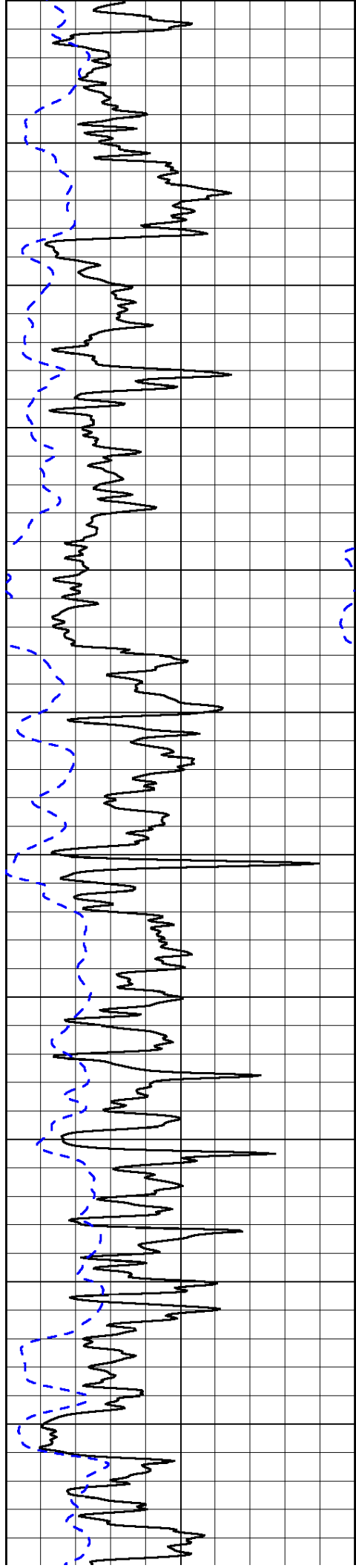
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|------|------------------|-----|
| 0    | Gamma Ray (GAPI) | 150 |
| -200 | SP (mV)          | 0   |
|      |                  |     |

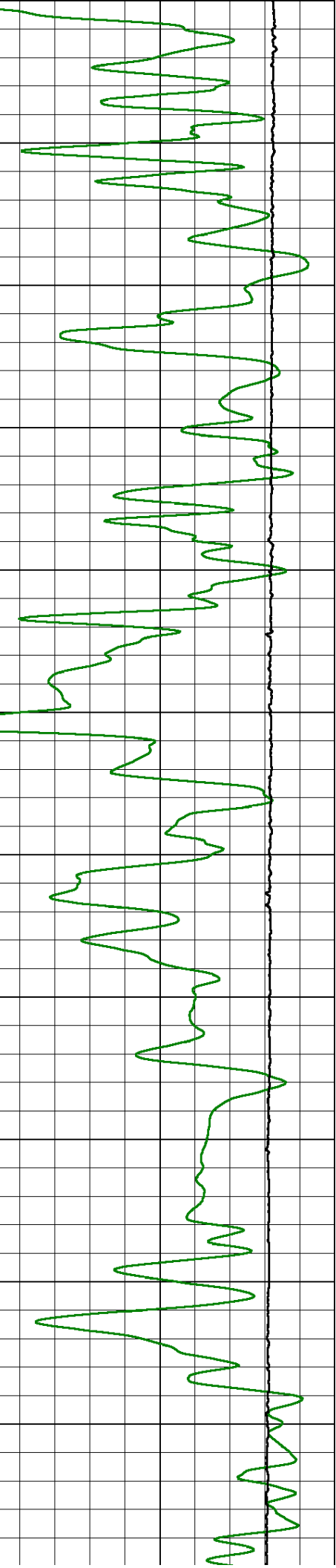
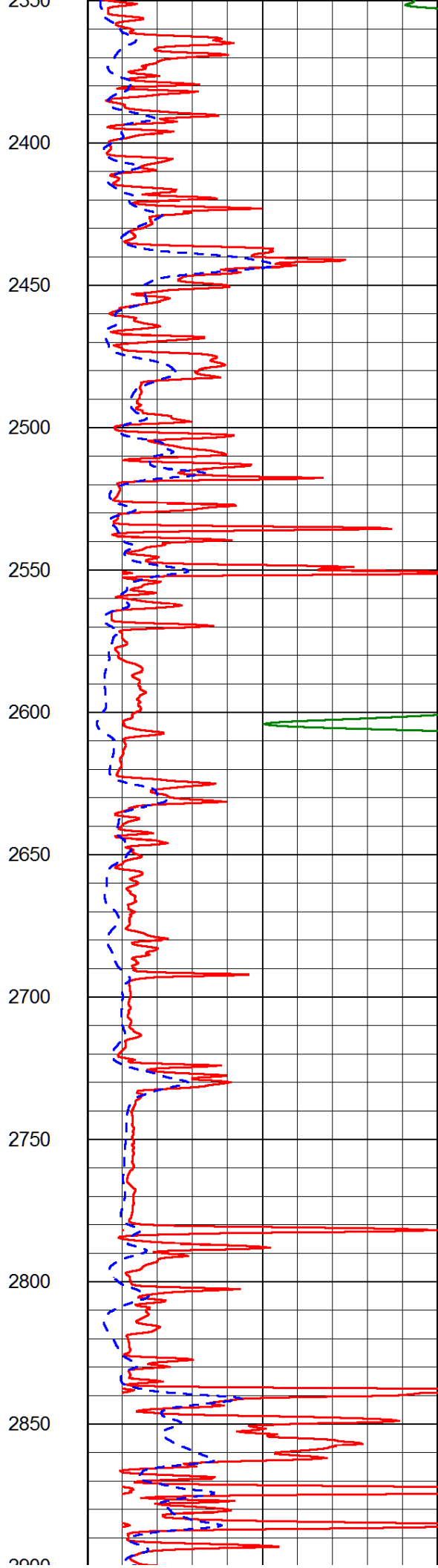
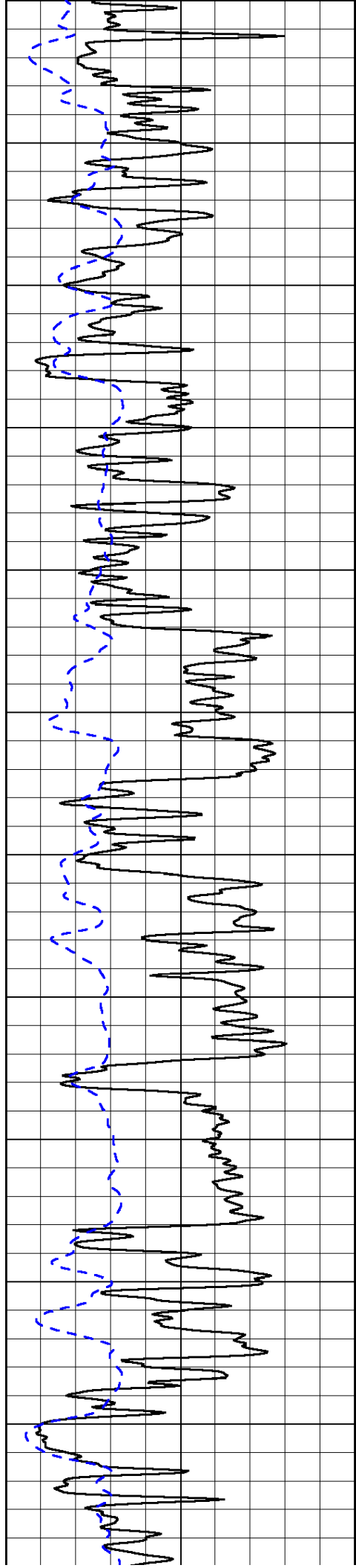
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|---------------------|-----------------------------|-----|
| 0                   | Shallow Resistivity (Ohm-m) | 50  |
| 0                   | Deep Resistivity (Ohm-m)    | 50  |
| 1000                | Conductivity (Ohm-m)        | 0   |
| 15000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

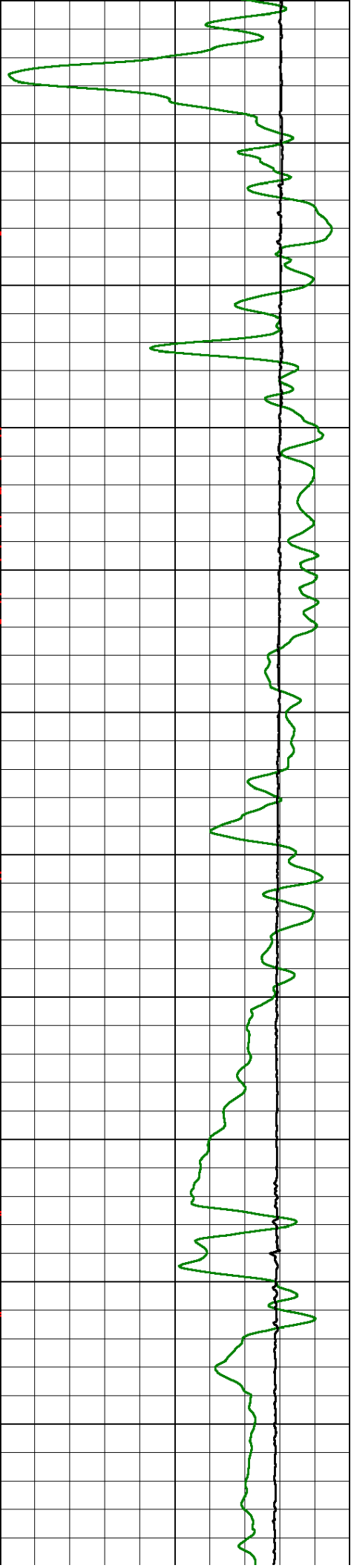
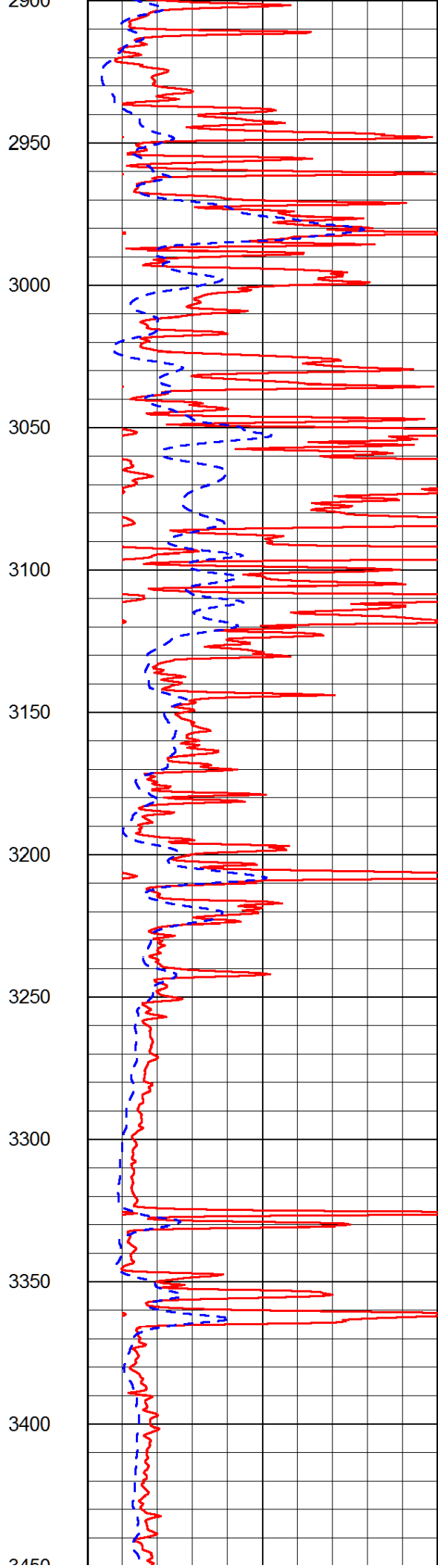
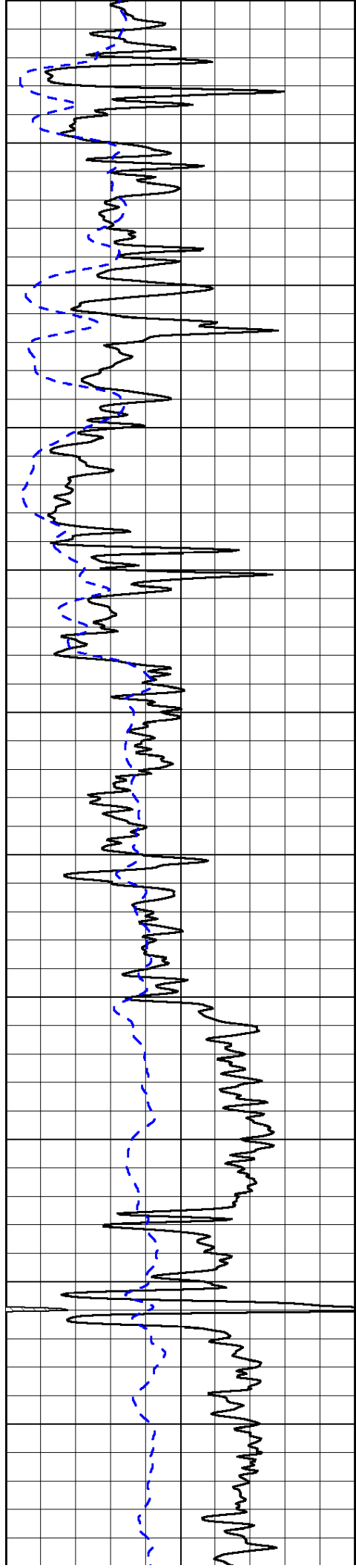


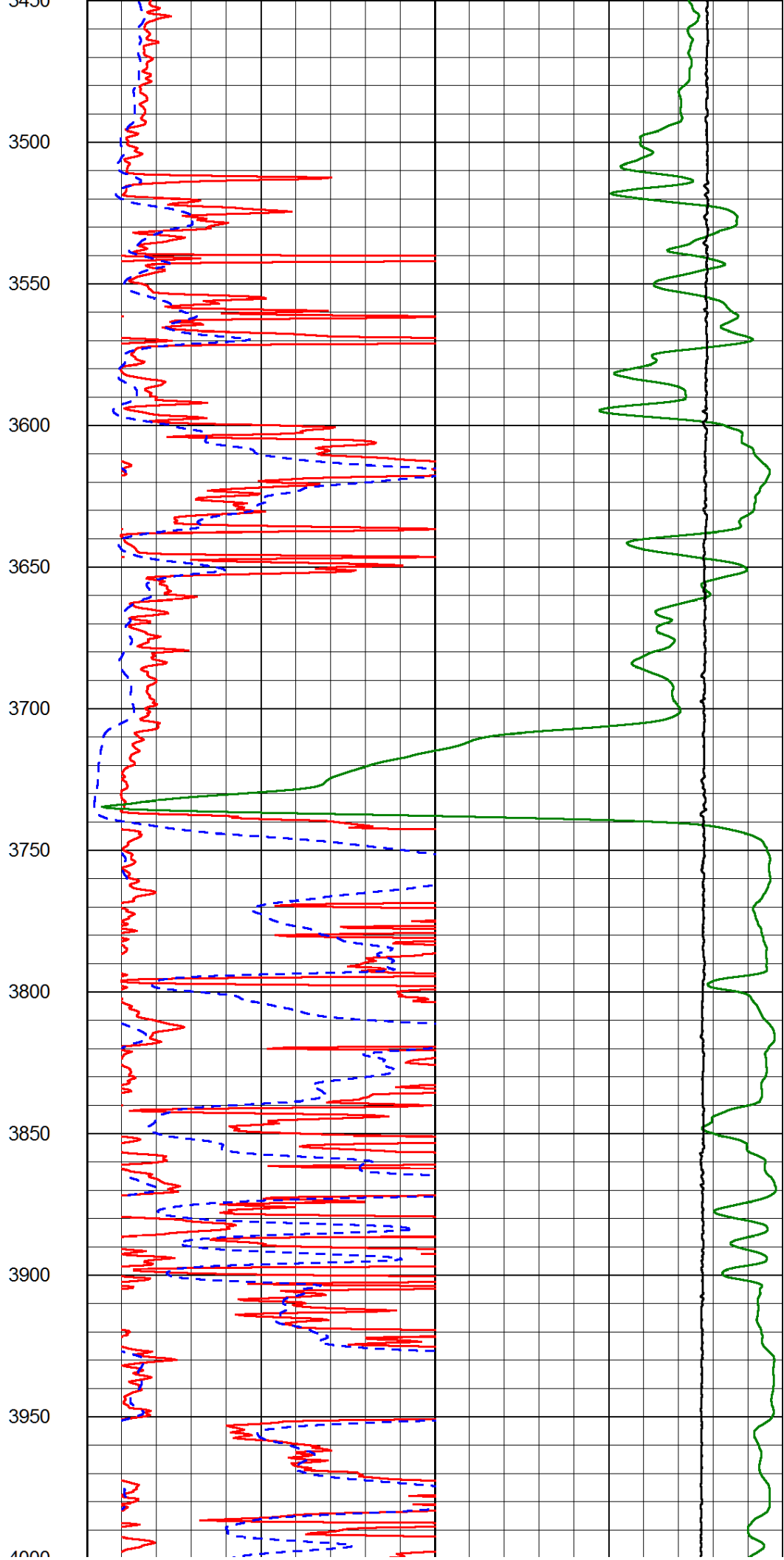
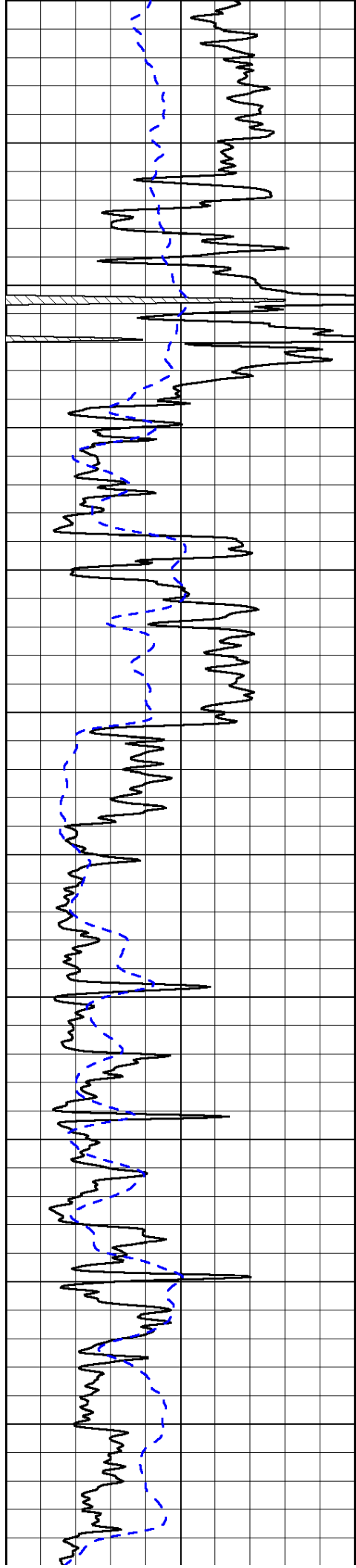


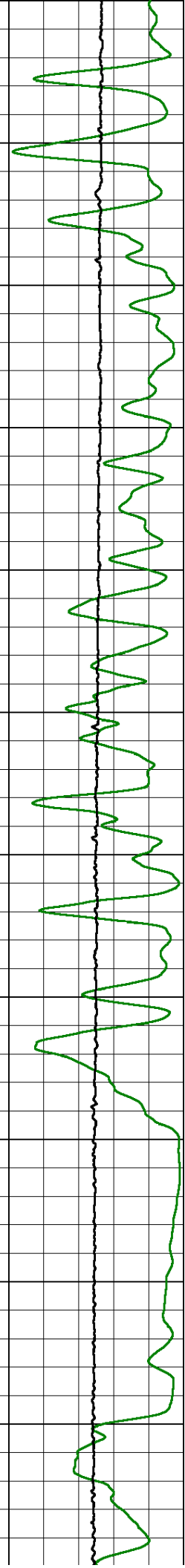
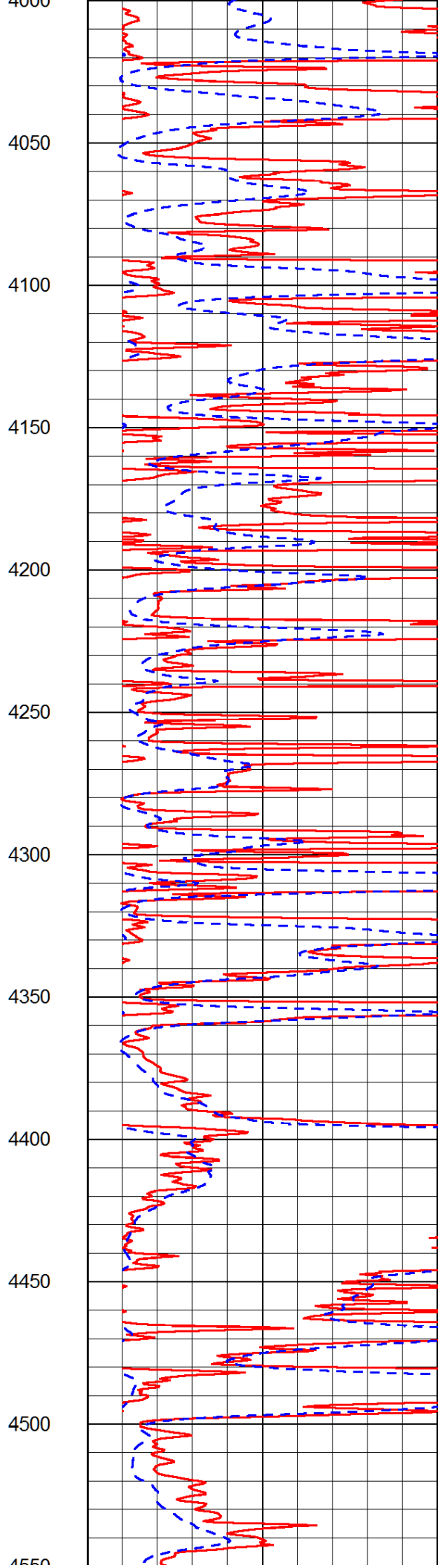
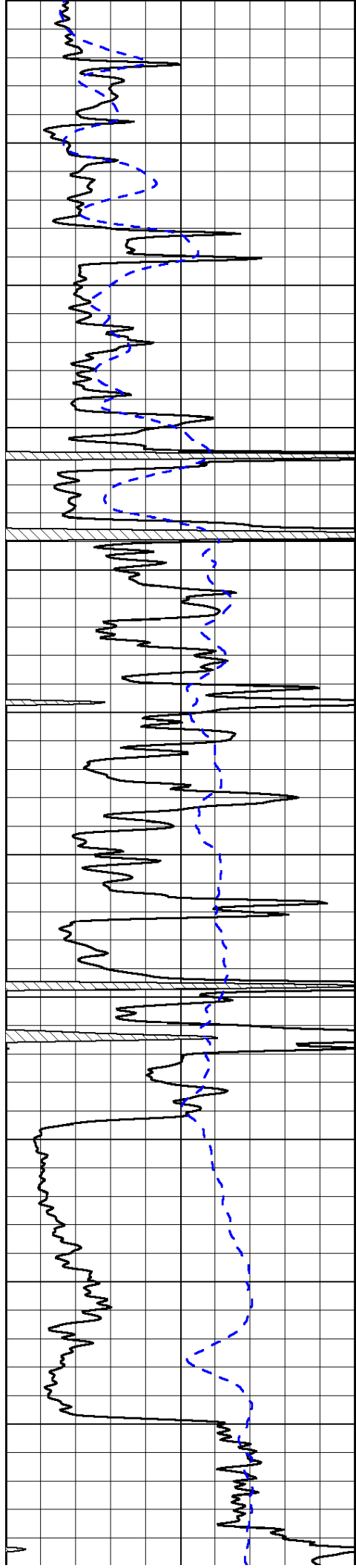


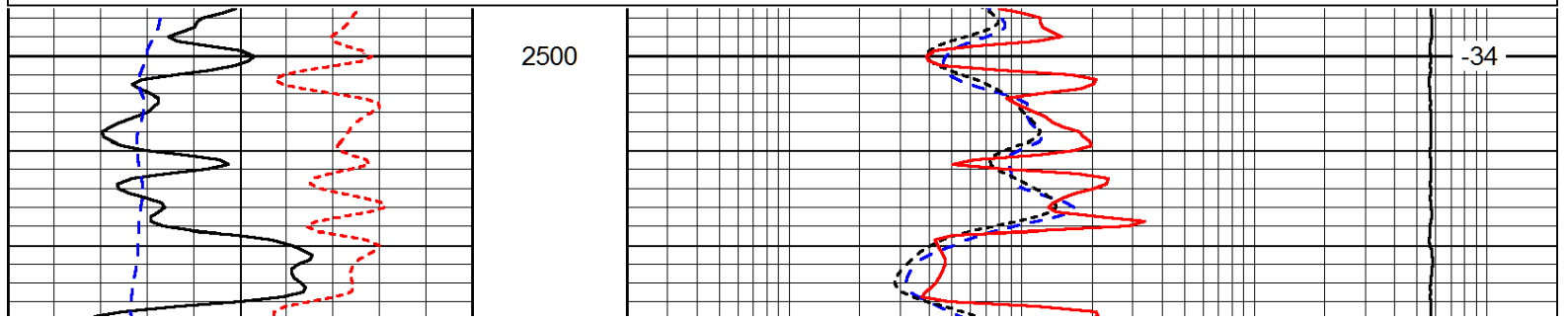
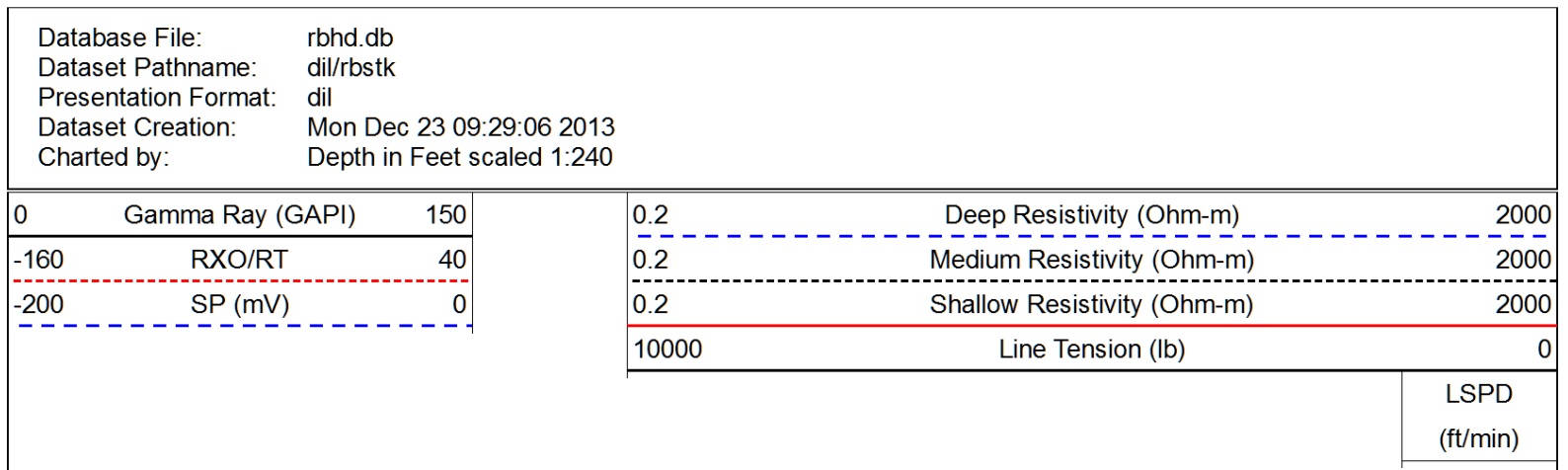
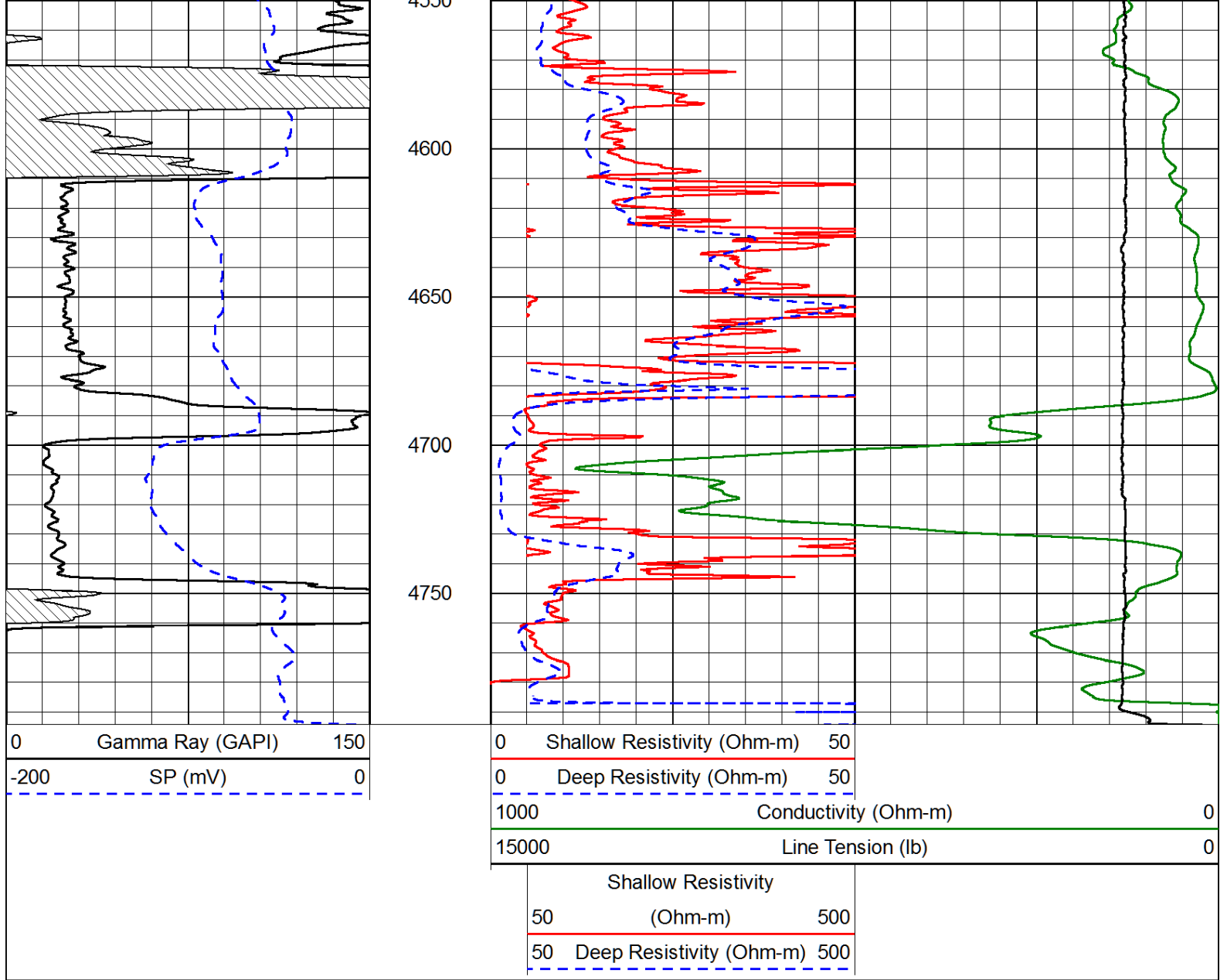


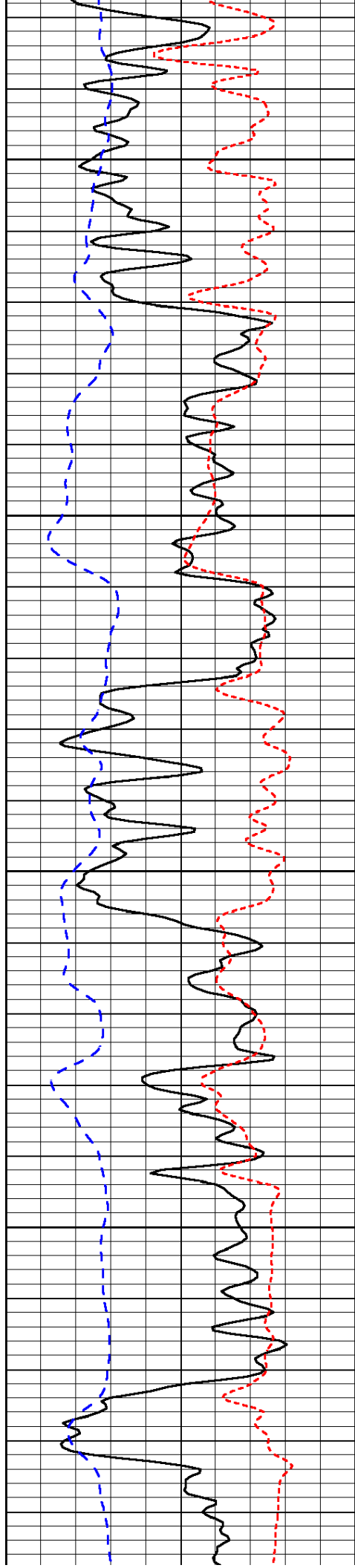










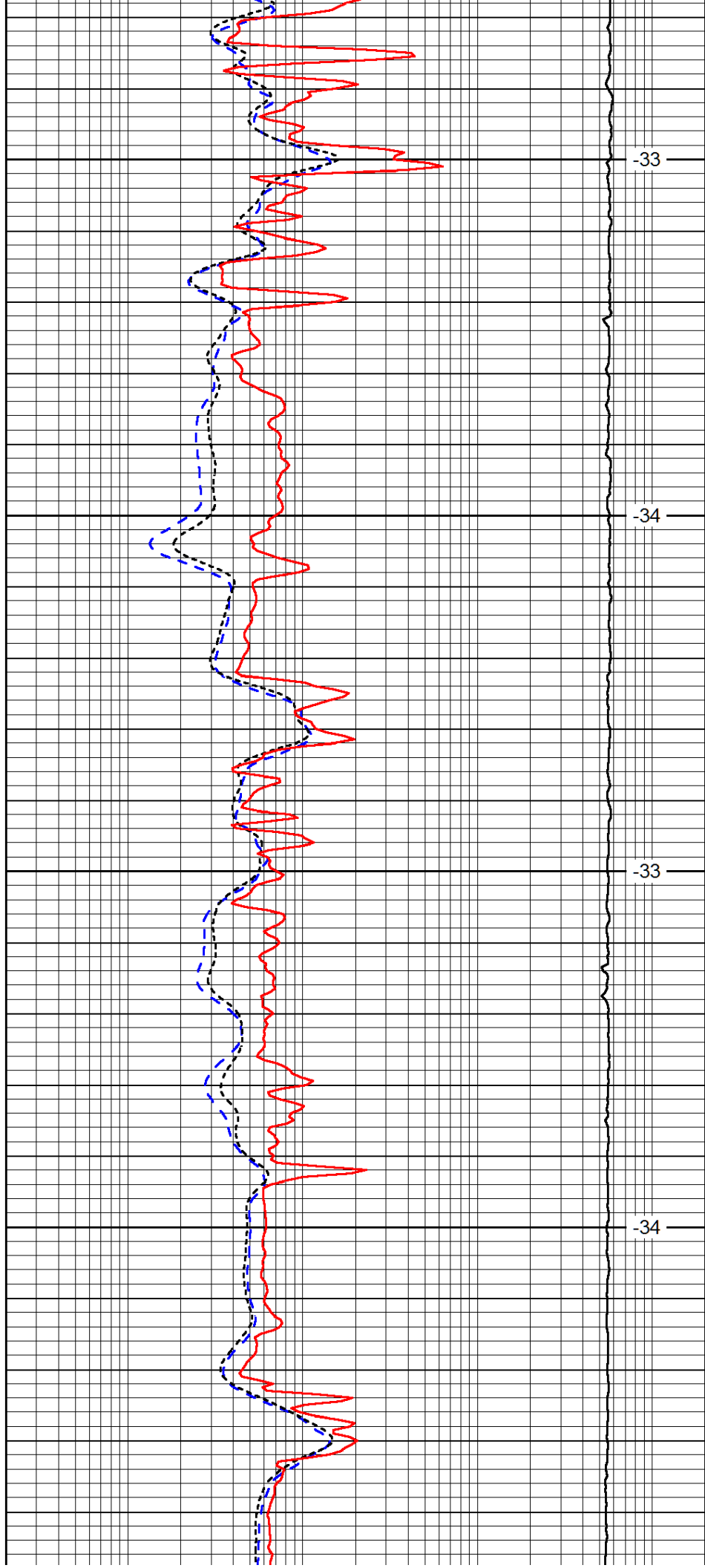


2550

2600

2650

2700

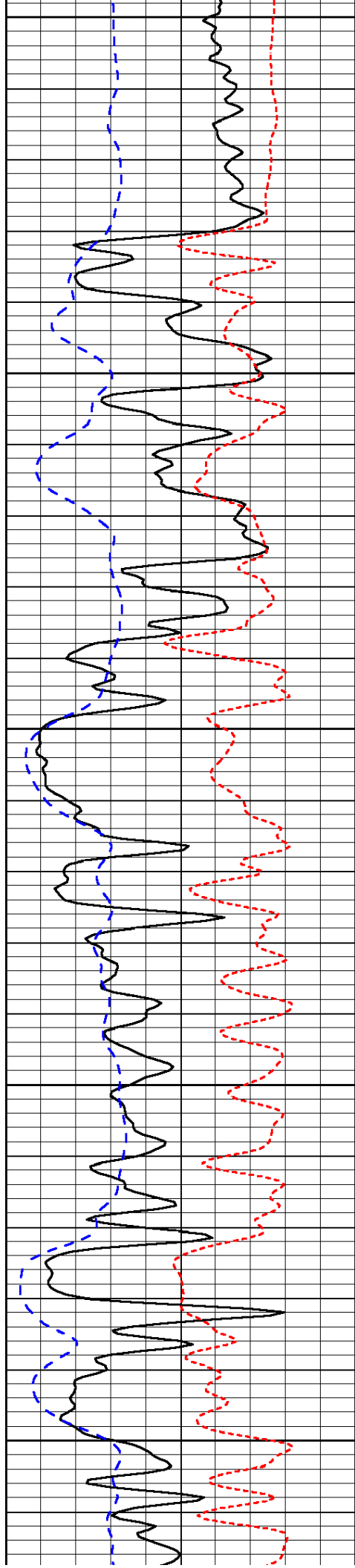


-33

-34

-33

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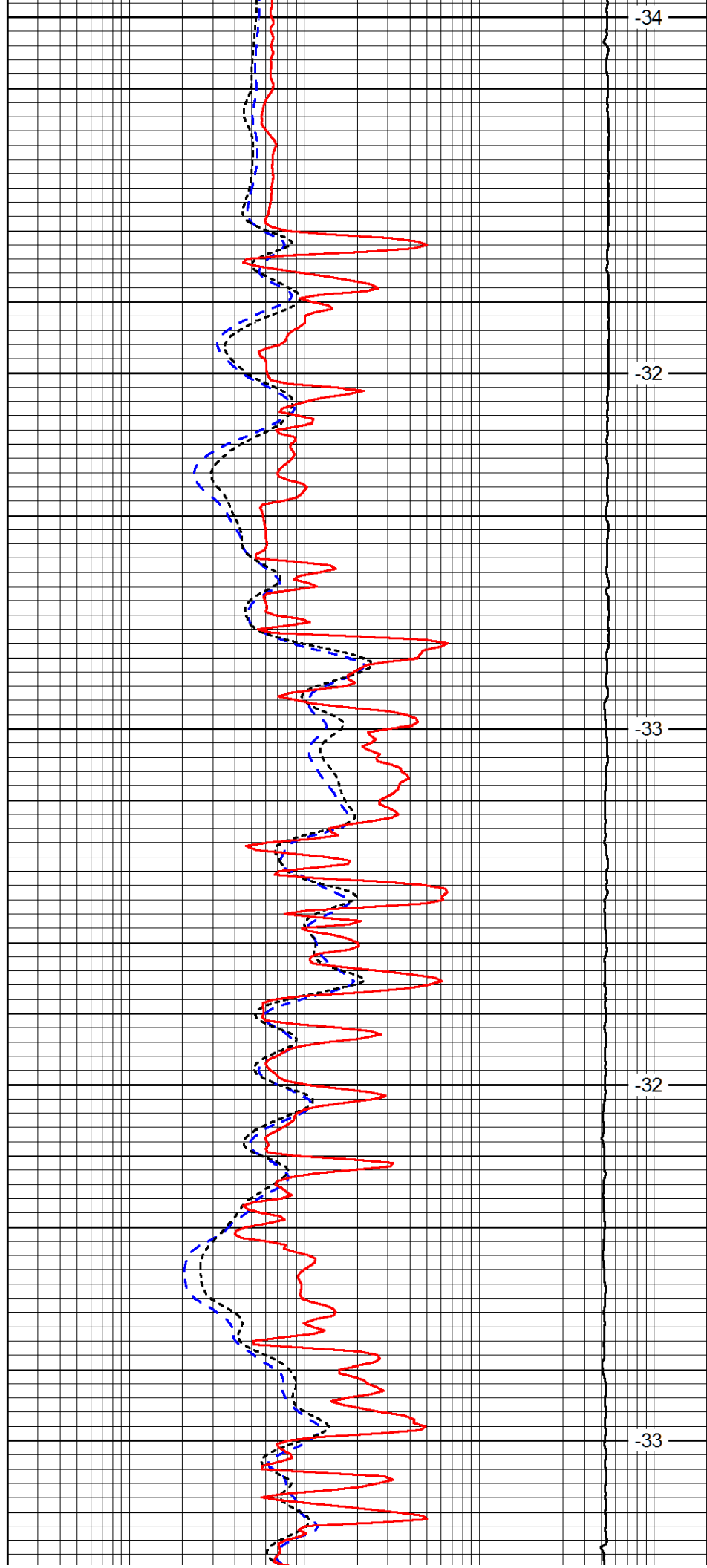
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2800

2850

2900

2950



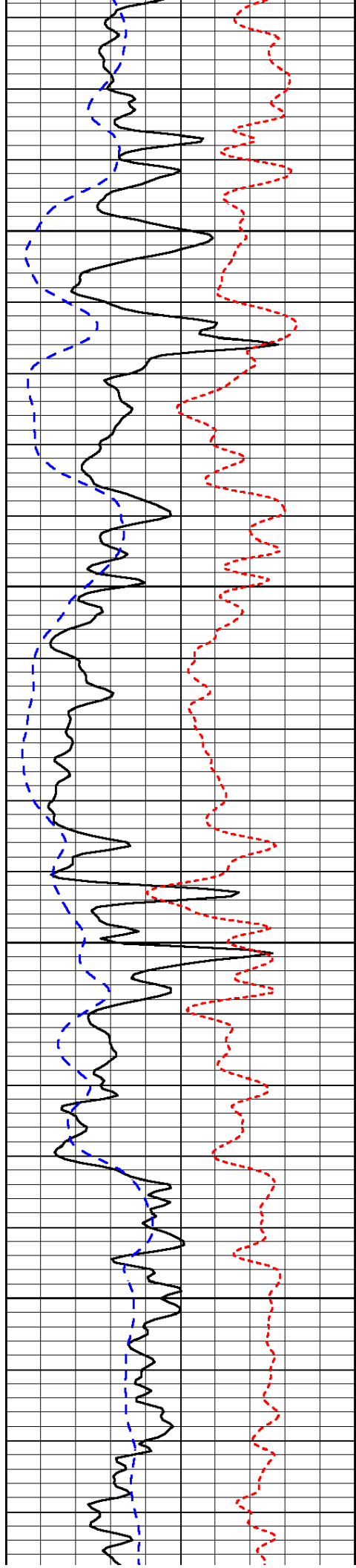
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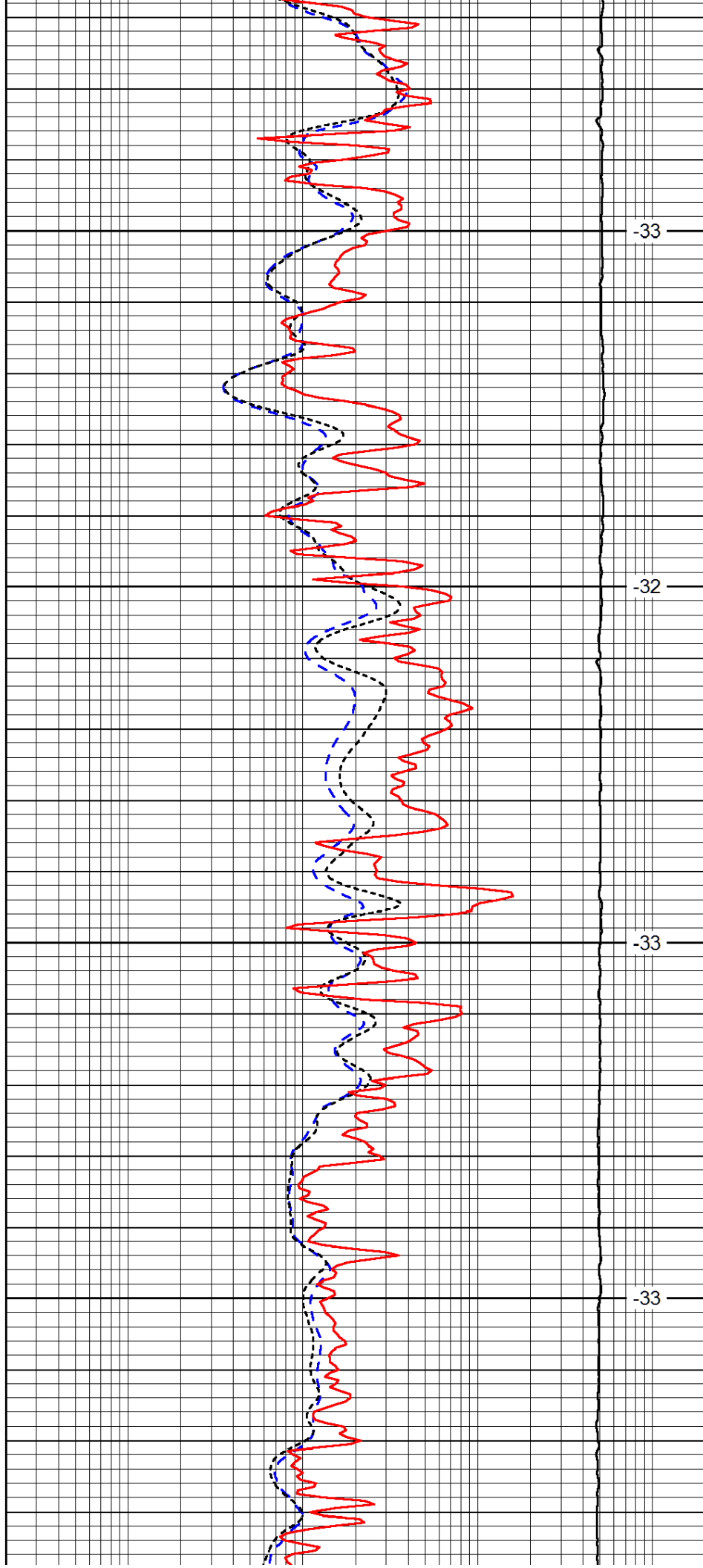


3000

3050

3100

3150

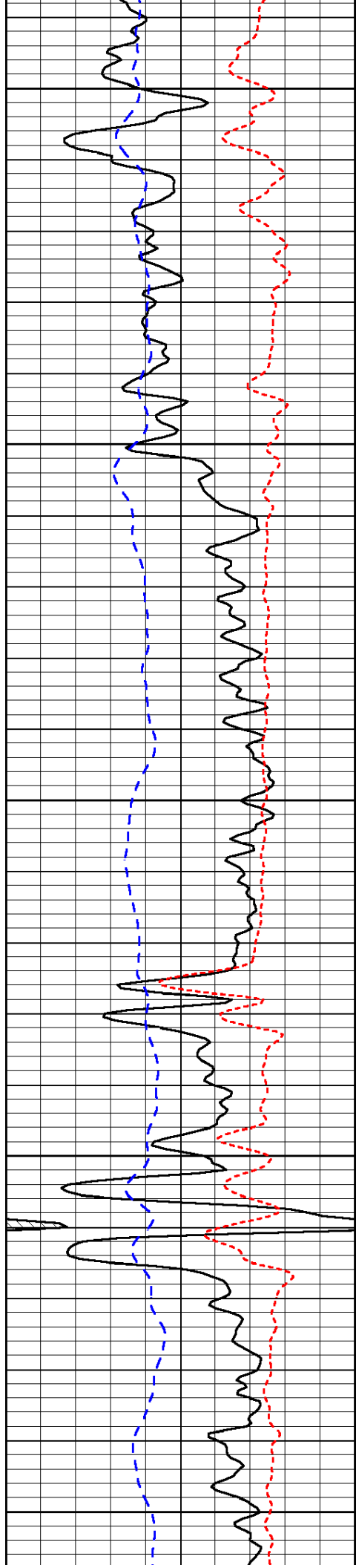


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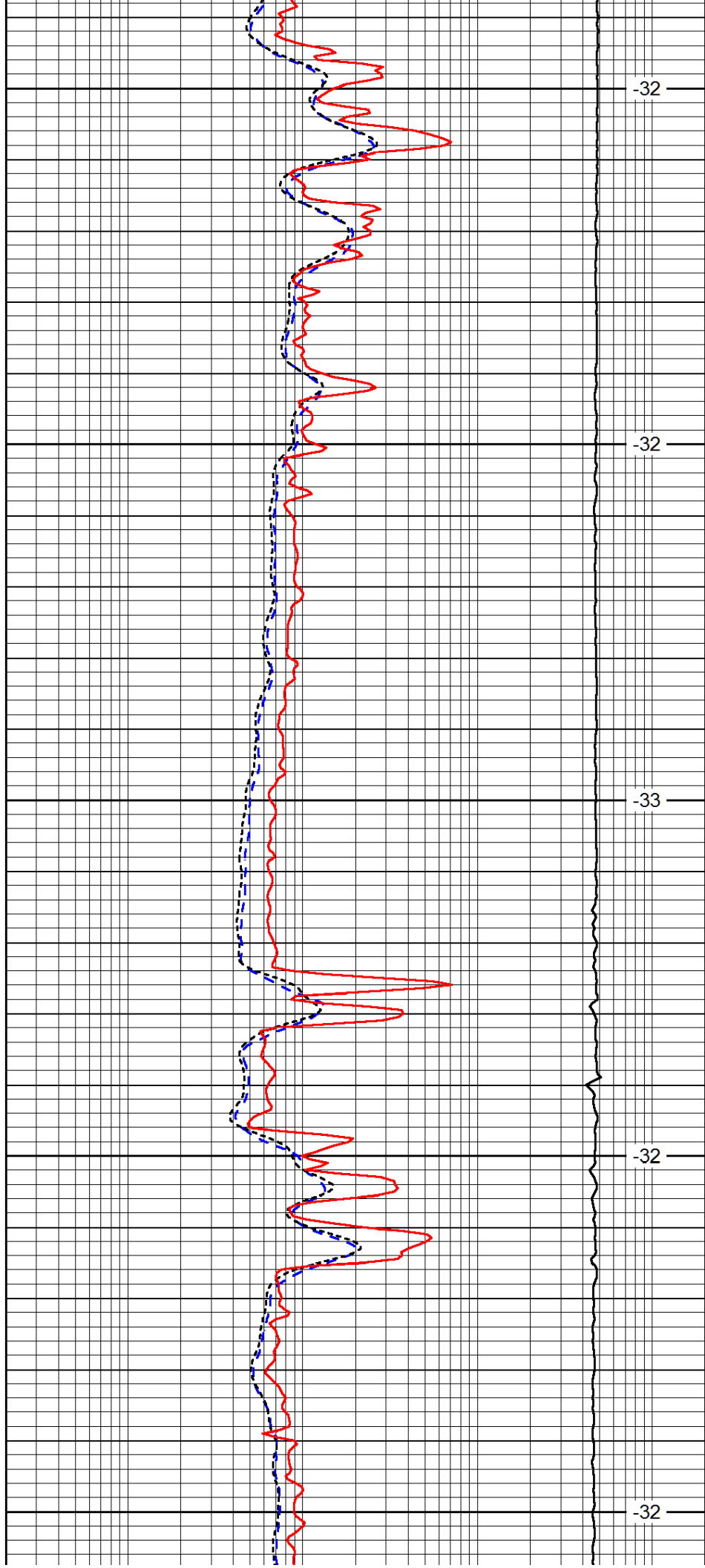
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3250

3300

3350

3400



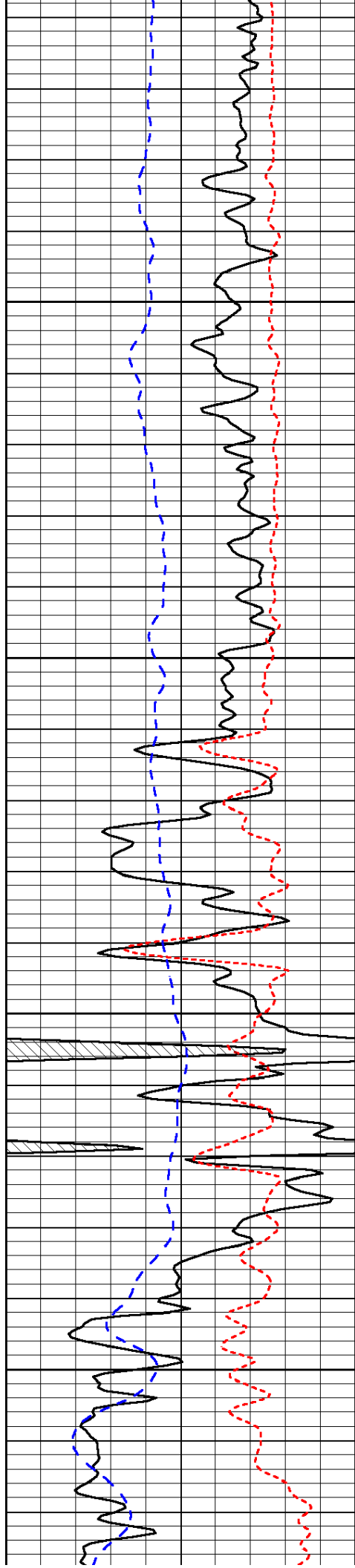
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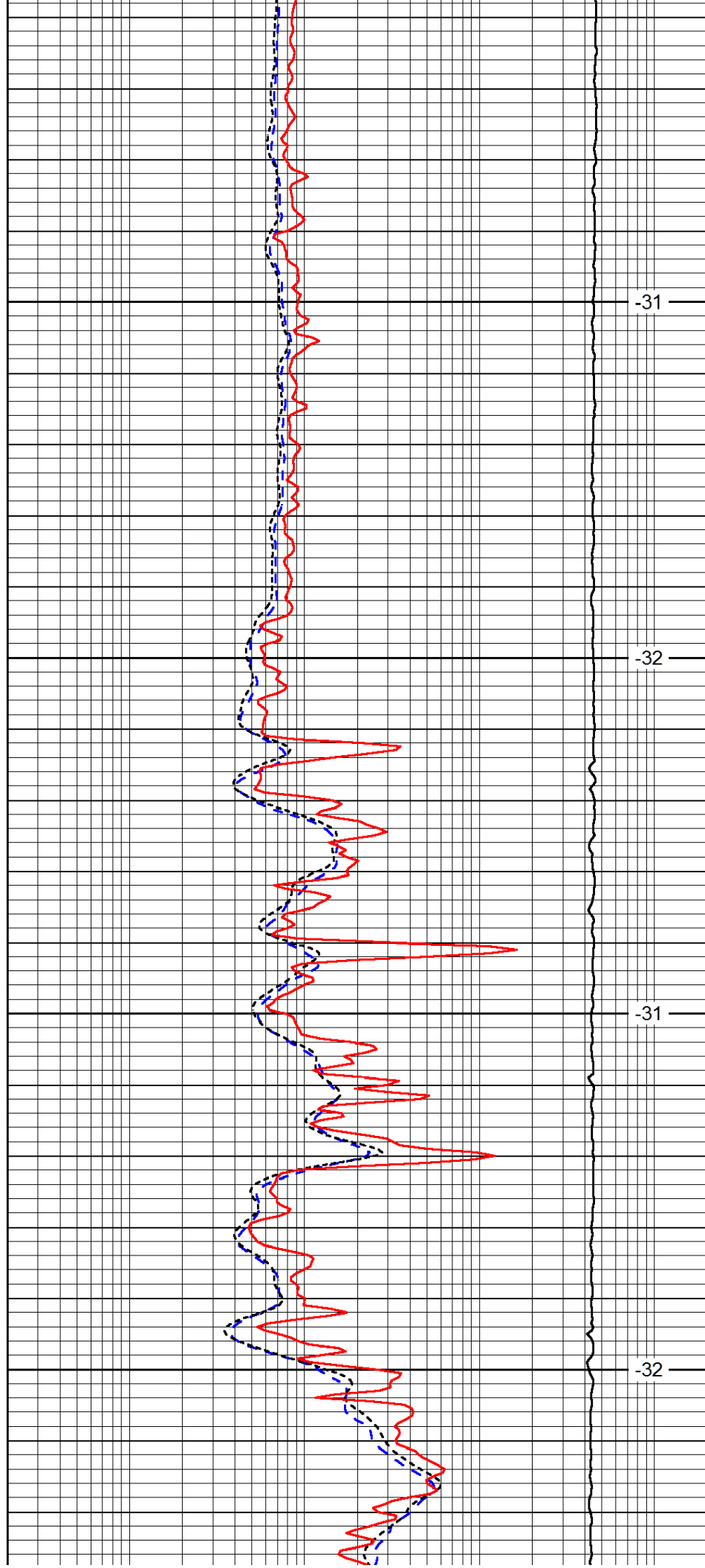


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3500

3550

3600

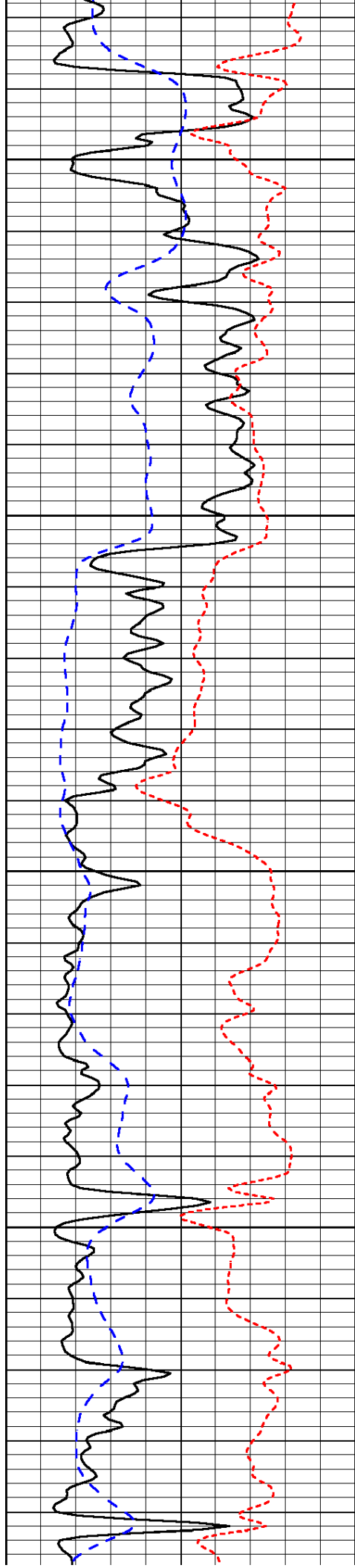


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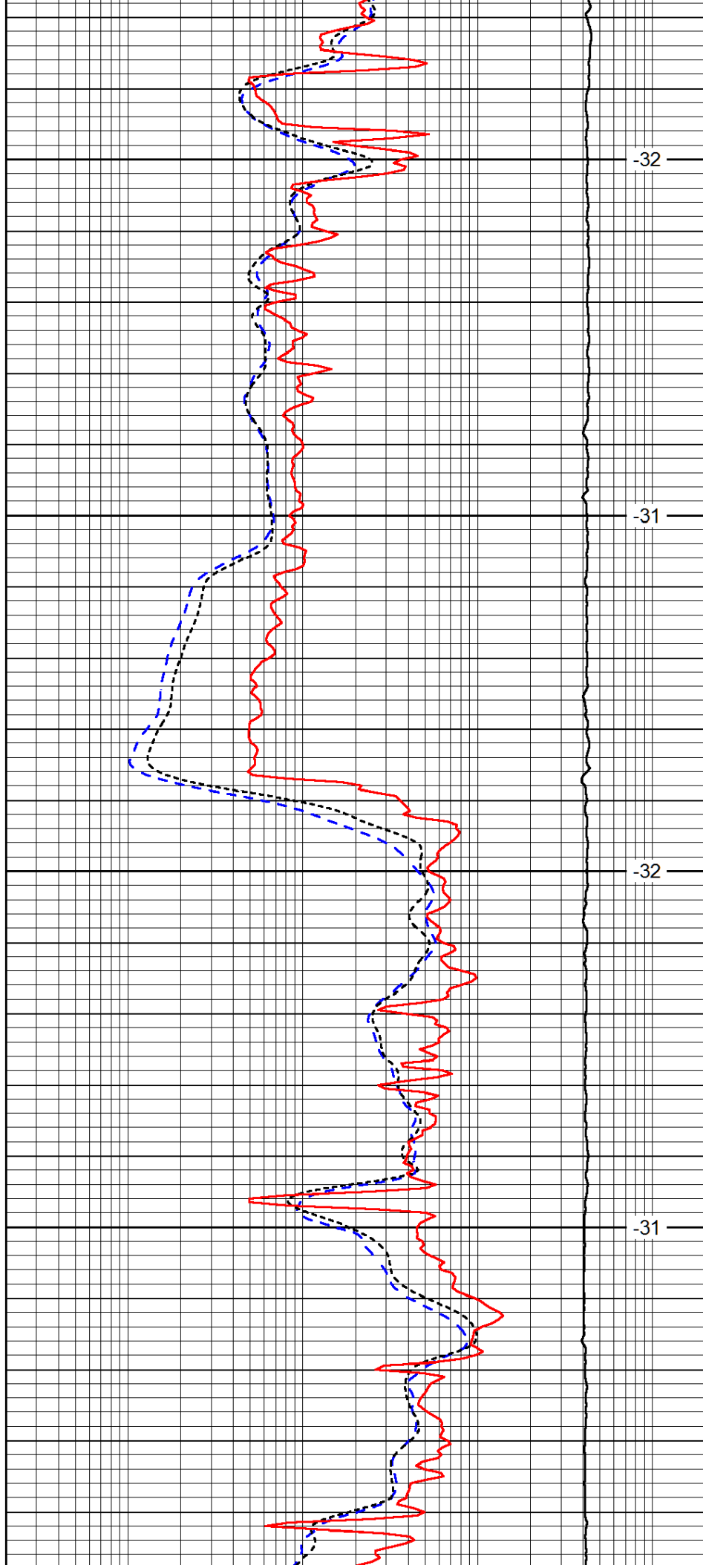


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3700

3750

3800

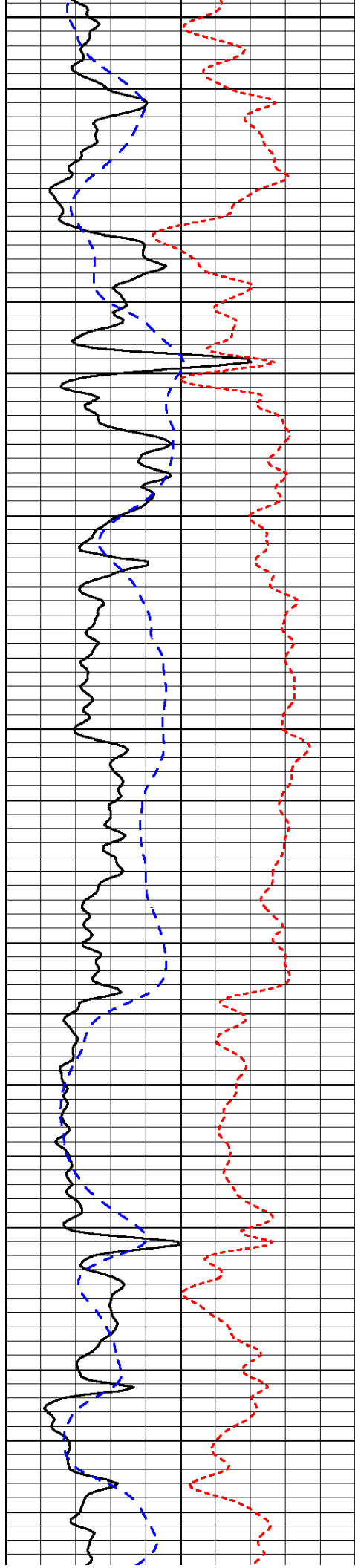


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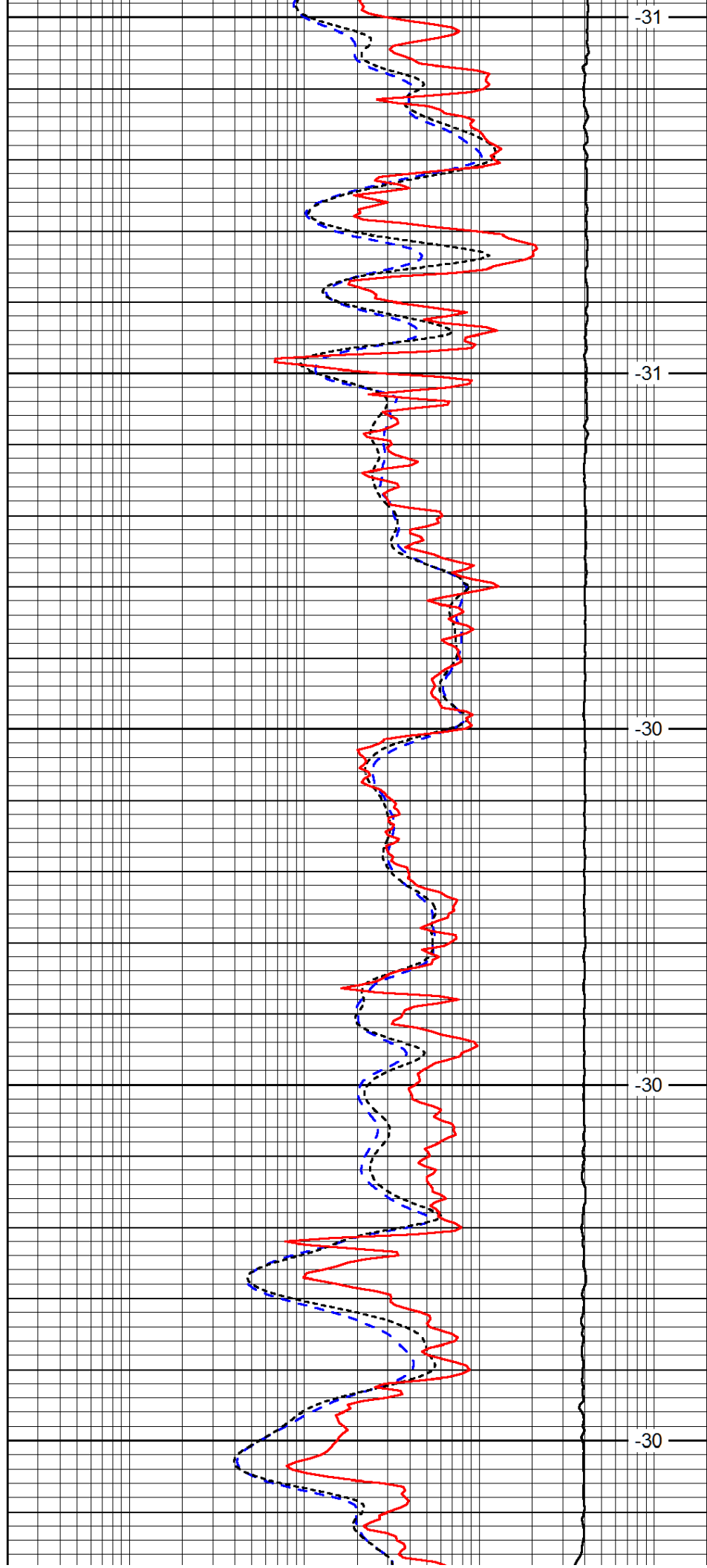
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4050



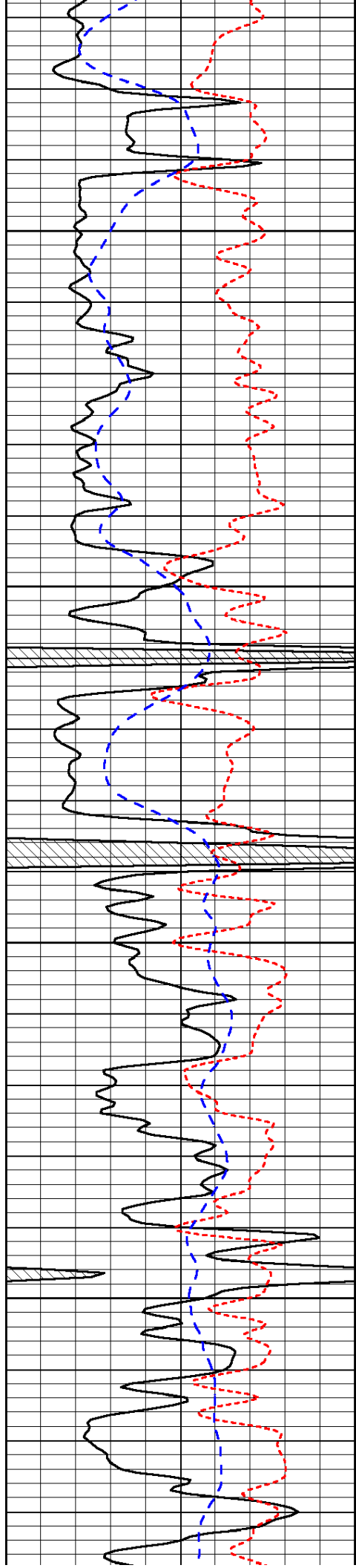
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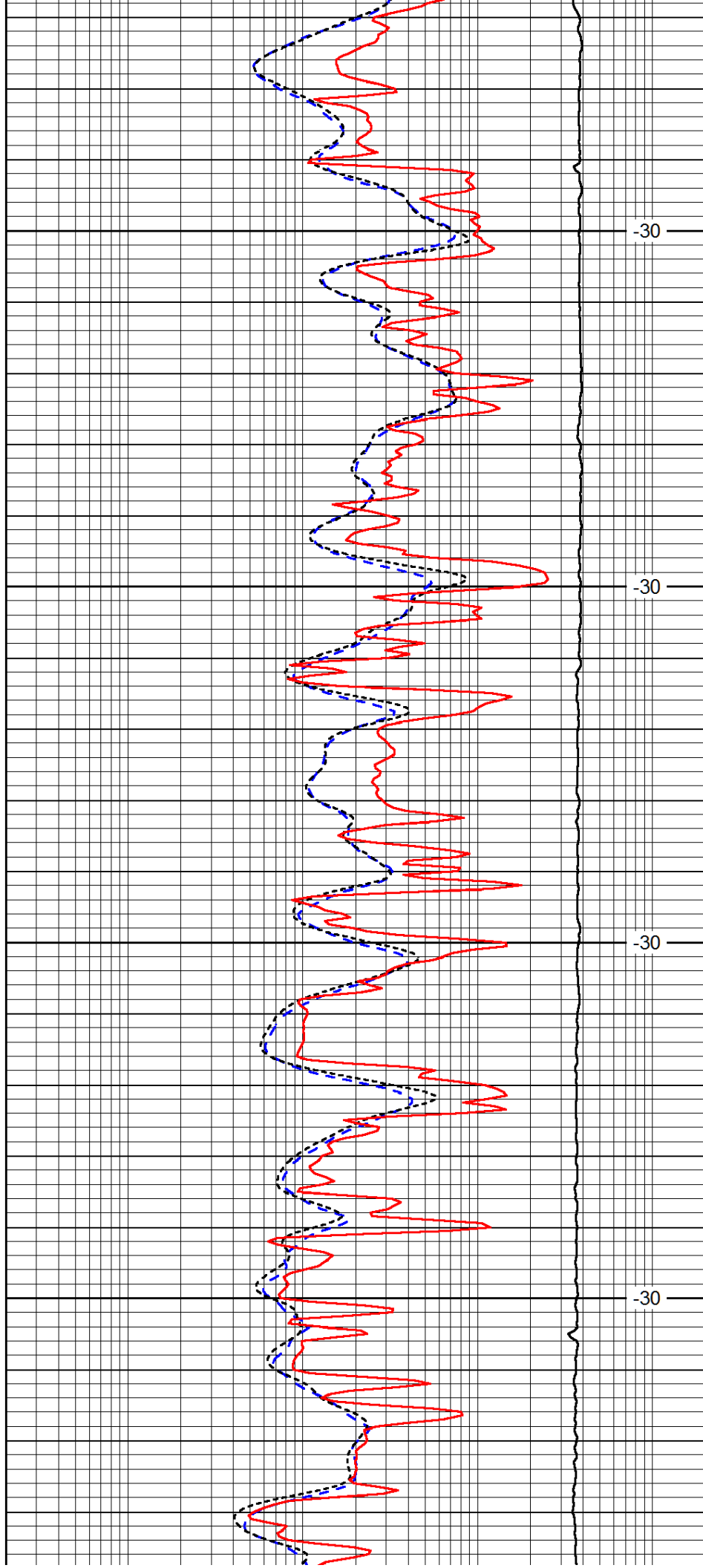


4100

4150

4200

4250

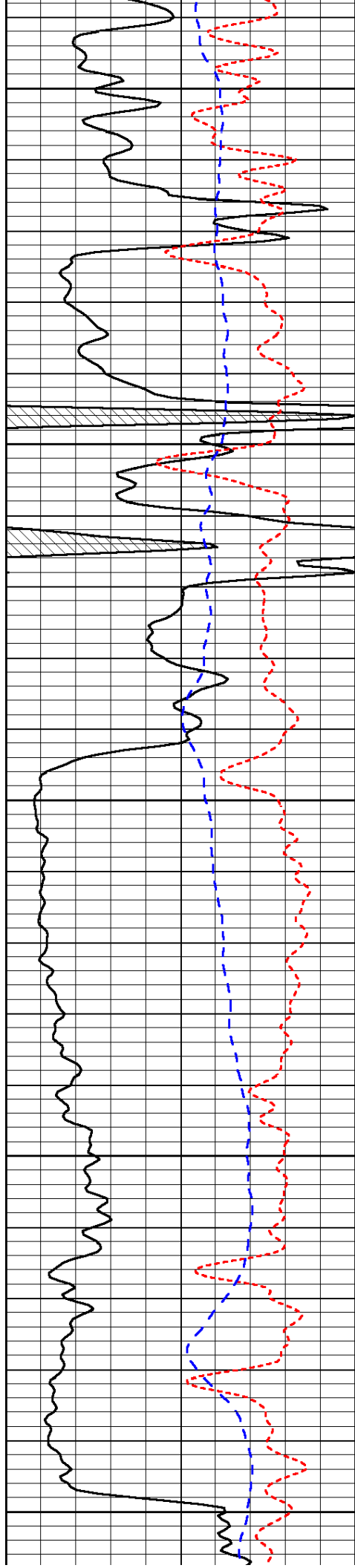


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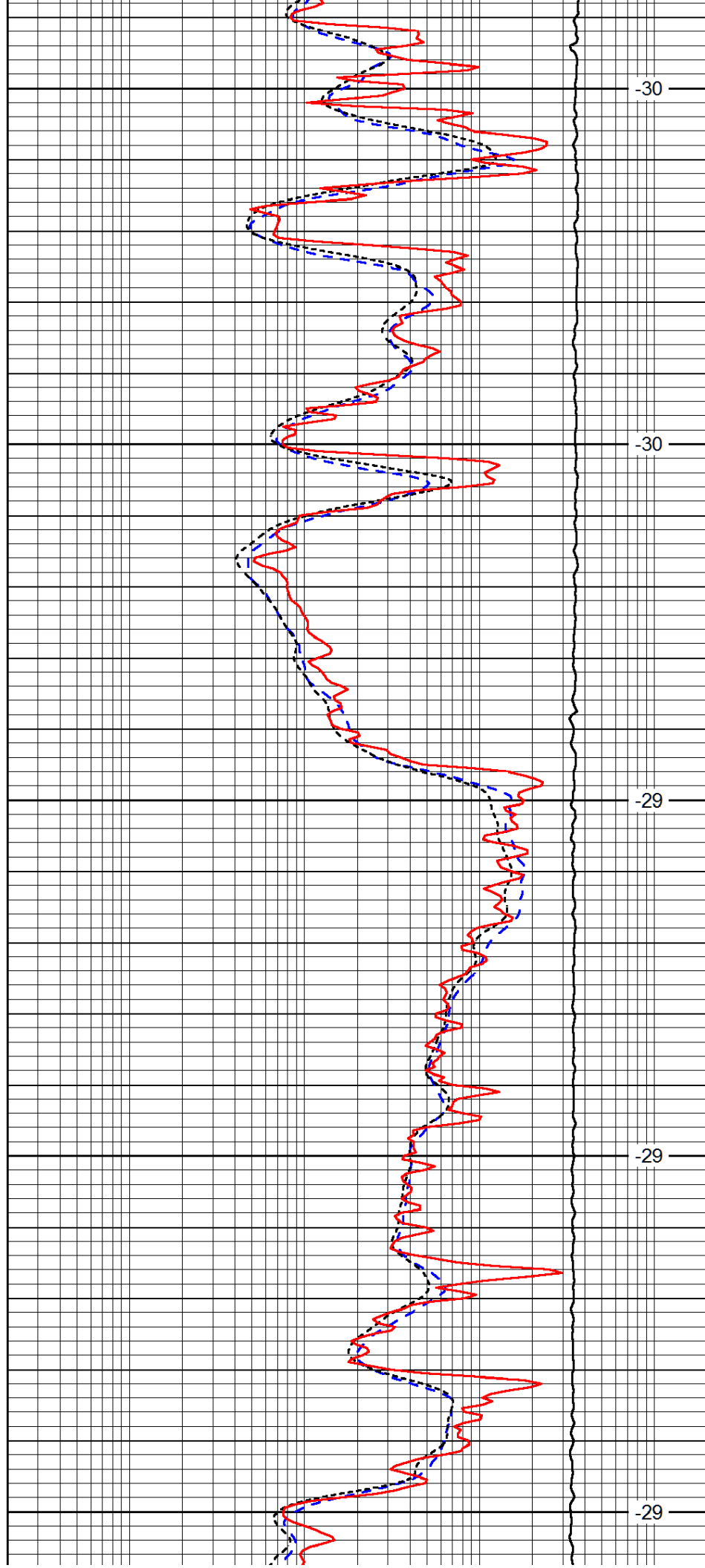
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4400

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4500



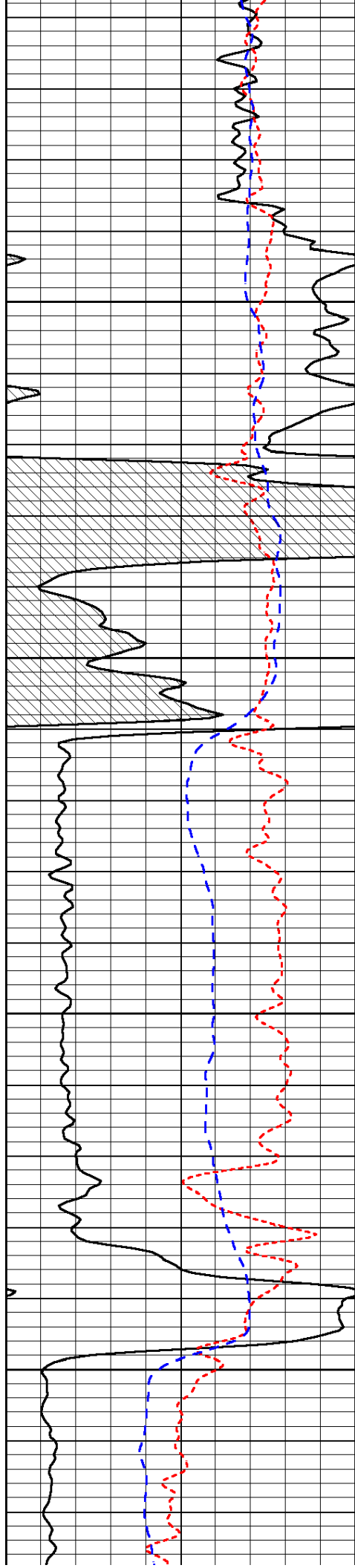
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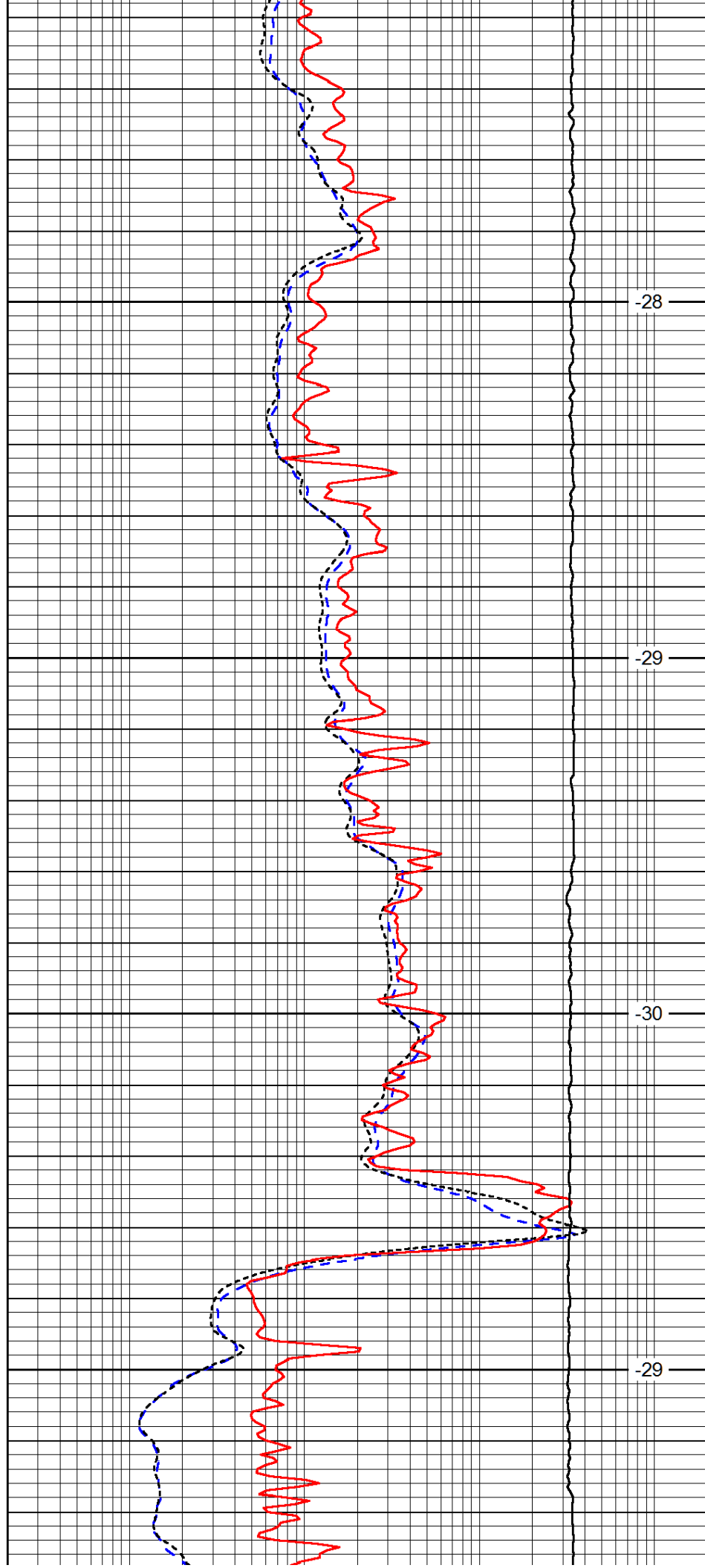


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4600

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4700

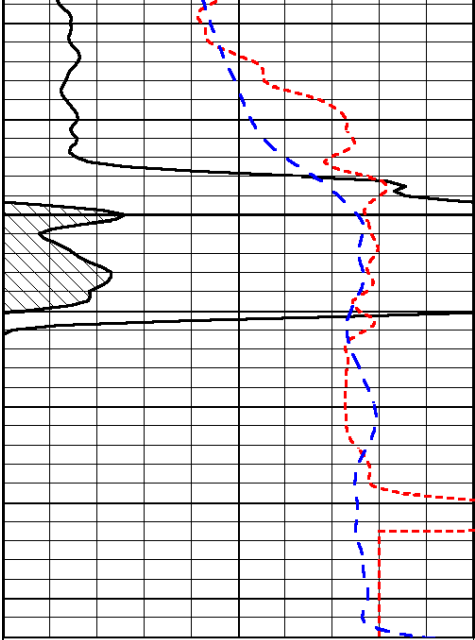


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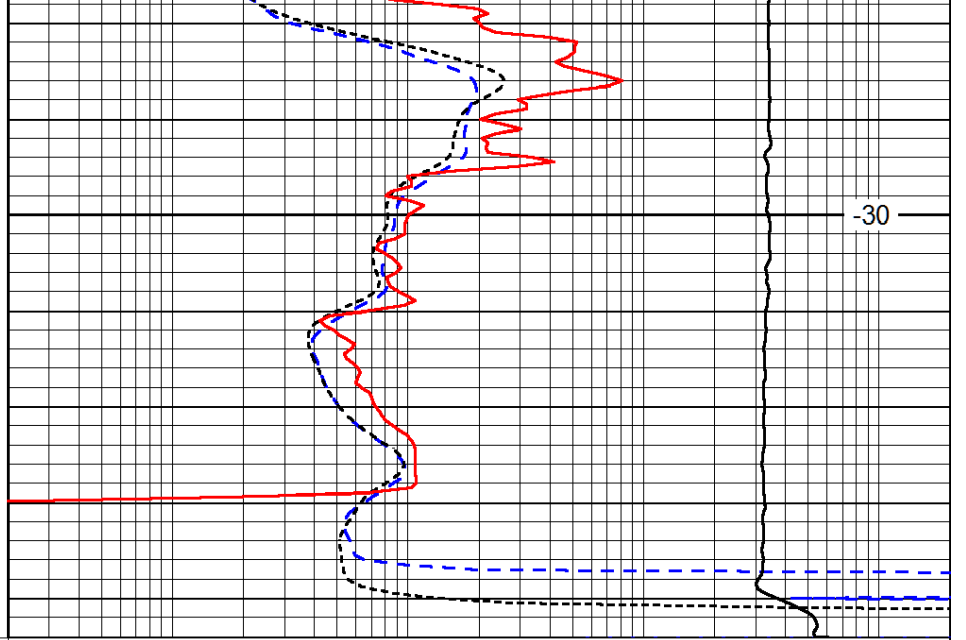
-30

-29



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

4750



|       |                             |      |
|-------|-----------------------------|------|
| 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)