



## Dual Induction Log

DIGITAL LOG

(785) 625-3858

API No.

15-175-22,169-00-00

Company LeBosquet Gas Operations, LLC.

Well Northern Natural No. 2

Field Hugoton

County Seward State Kansas

Location 1320' FNL & 1412' FWL

Sec: 1 Twp: 32S Rge: 33W

Other Services  
CNL/CDL

Permanent Datum Ground level Elevation 2865.9

Log Measured From Kelly Bushing 6.5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation  
K.B. 2872.4  
D.F.  
G.L. 2865.9

Date 12/07/08

Run Number One

Depth Driller 2825

Depth Logger 2830

Bottom Logged Interval 2829

Top Log Interval 600

Casing Driller 8.625 @ 610

Casing Logger 612

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 21,000

Density / Viscosity 9.4 36

pH / Fluid Loss 7.0 n/c

Source of Sample Flowline

Rm @ Meas. Temp 1.2 @ 50

Rmf @ Meas. Temp .90 @ 50

Rmc @ Meas. Temp 1.62 @ 50

Source of Rmf / Rmc Charts

Rm @ BHT .56 @ 106

Operating Rig Time 3 Hours

Max Rec. Temp. F 106

Equipment Number 10

Location Hays

Recorded By K. Bange

Witnessed By Rodney Gonzales

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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

Sublett, 12 S on 83 Hwy (to Northern Natural Gas plant), 1/4 E, S into

Database File: c:\warrior\data\lebosquet\_northern natural no. 2\lebosquethd.db  
Dataset Pathname: dil/lebos2in  
Presentation Format: dil2in  
Dataset Creation: Sun Dec 07 08:38:19 2008  
Charted by: Depth in Feet scaled 1:600

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP        | 0   |

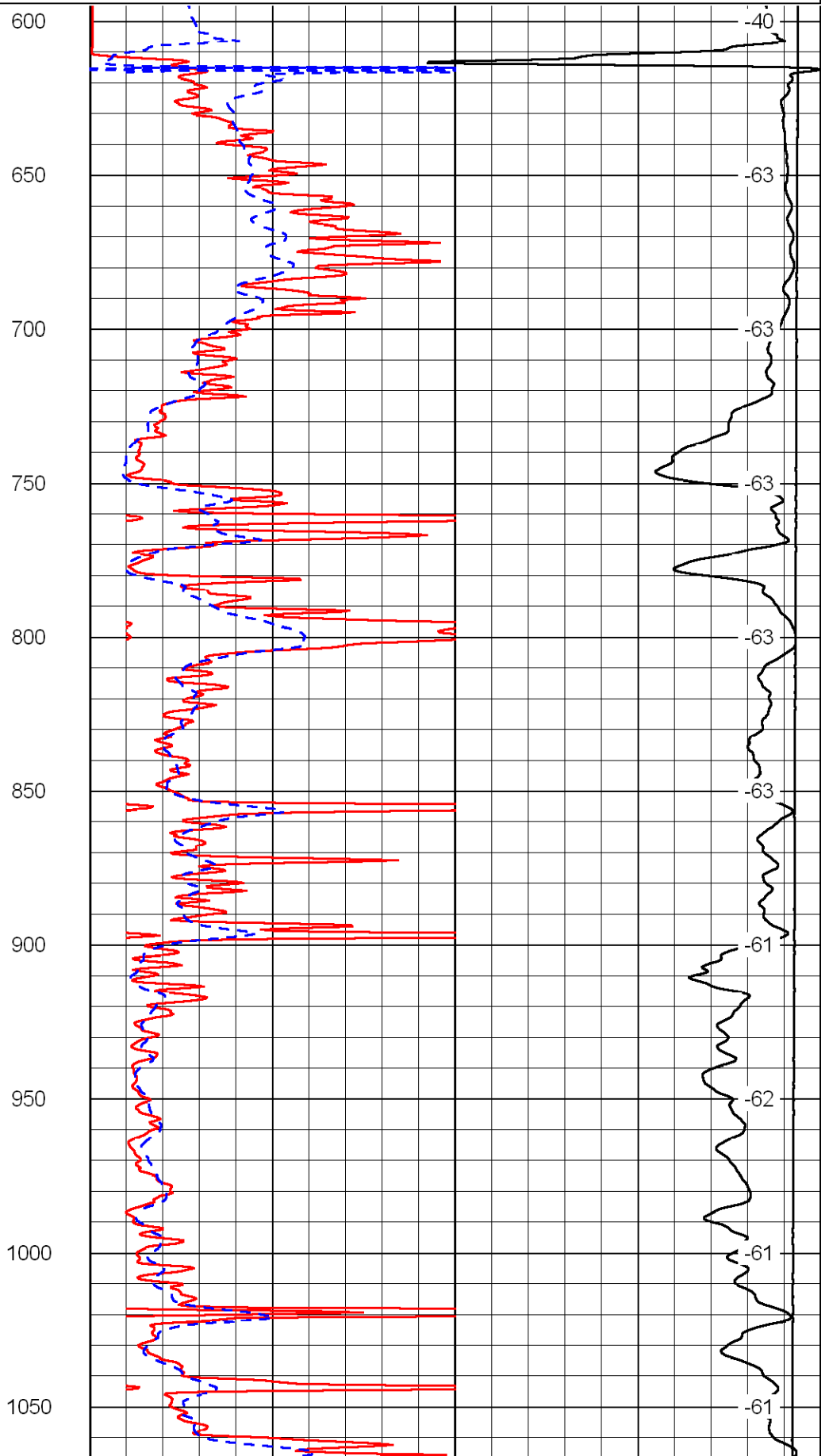
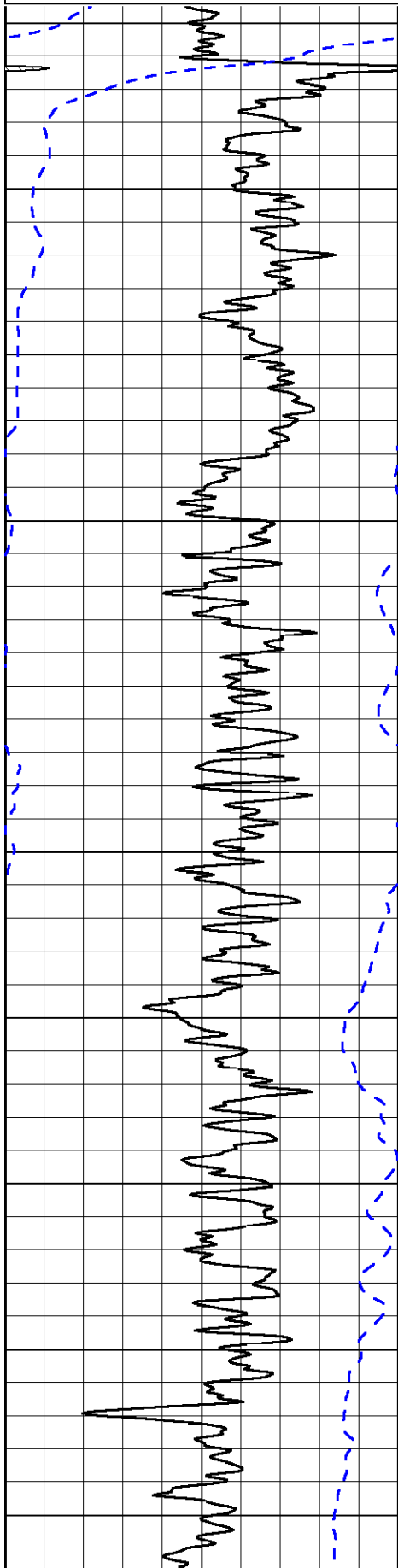
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|---|---------------------|----|
| 0 | Shallow Resistivity | 50 |
| 0 | Deep Resistivity    | 50 |

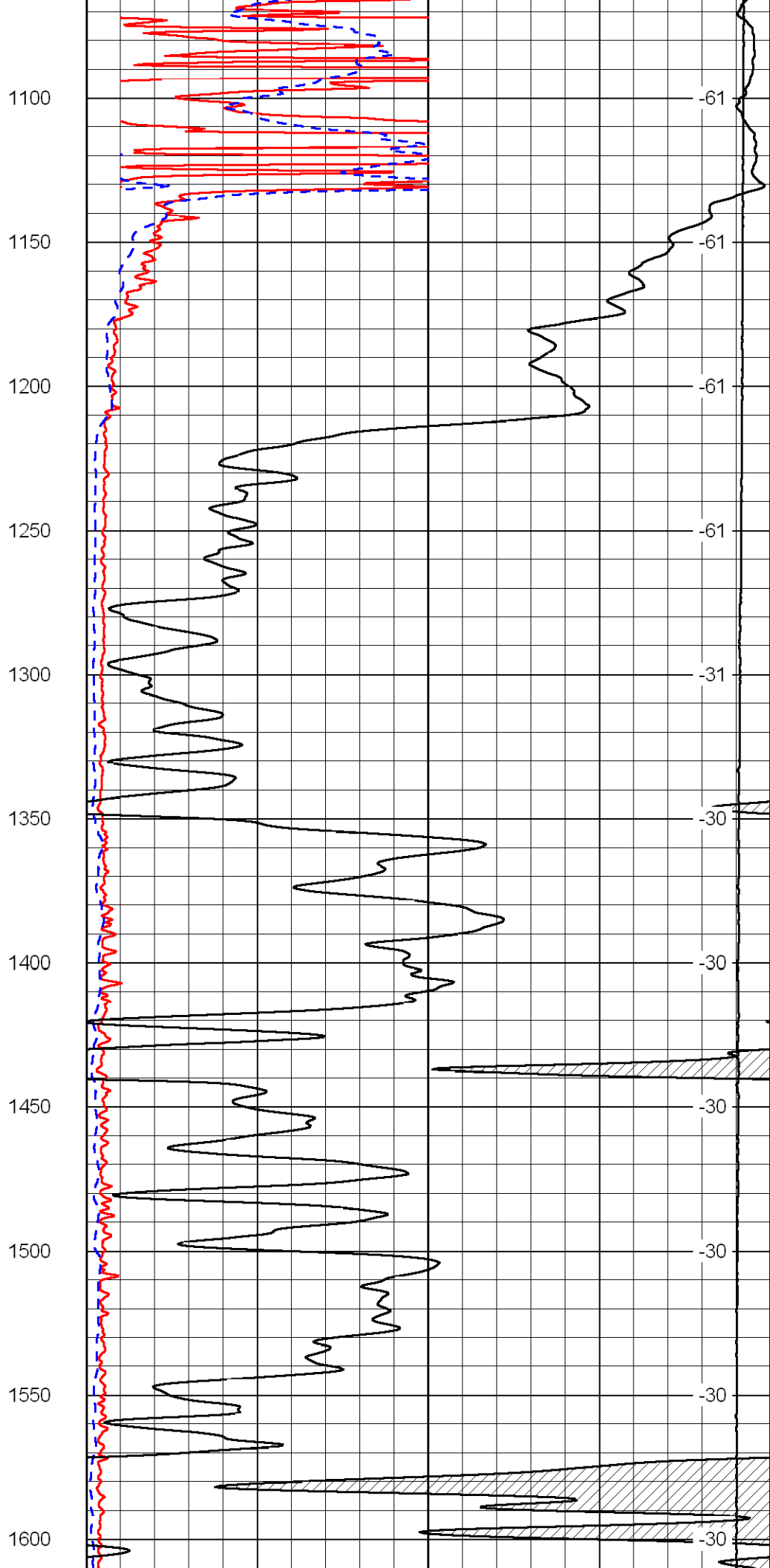
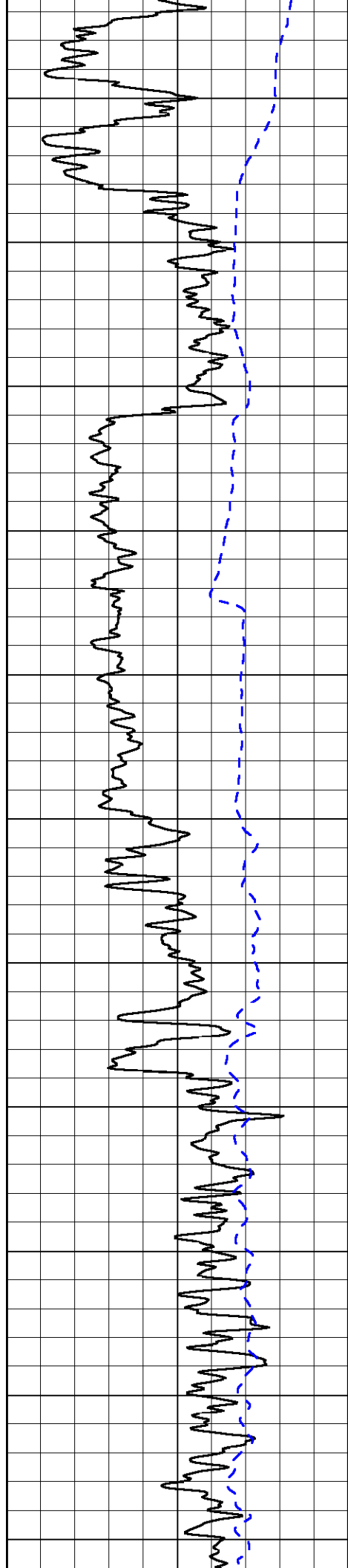
|      |
|------|
| LSPD |
|------|

|      |              |   |
|------|--------------|---|
| 1000 | Conductivity | 0 |
|------|--------------|---|

|       |              |   |
|-------|--------------|---|
| 15000 | Line Tension | 0 |
|-------|--------------|---|

|    |                     |     |
|----|---------------------|-----|
| 50 | Shallow Resistivity | 500 |
| 50 | Deep Resistivity    | 500 |





1650

1700

1750

1800

1850

1900

1950

2000

2050

2100

2150

-30

-30

-30

-30

-30

-29

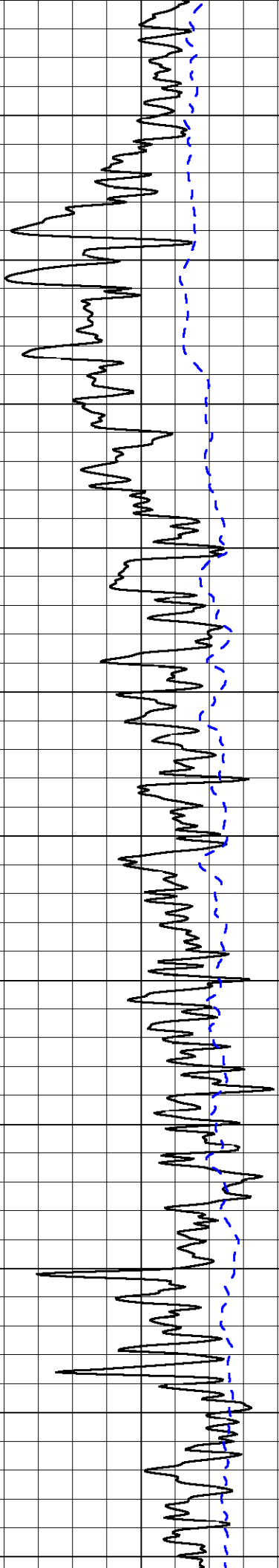
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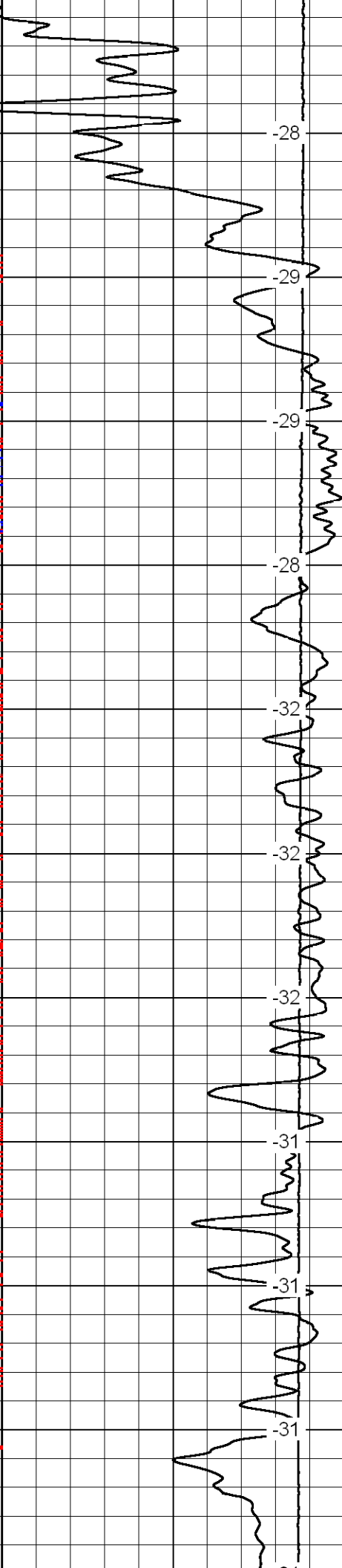
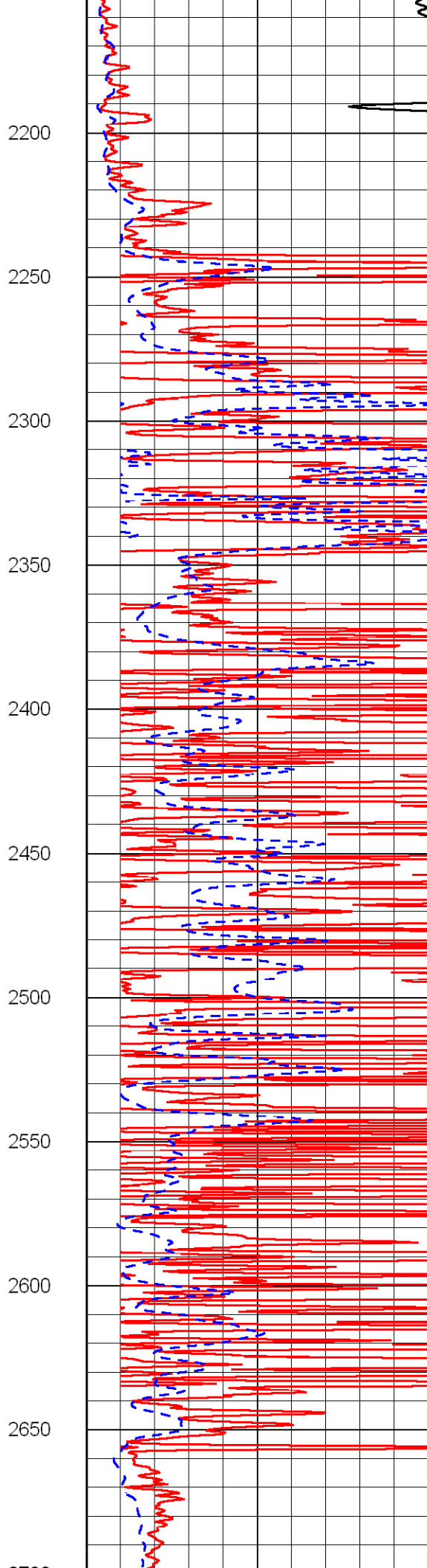
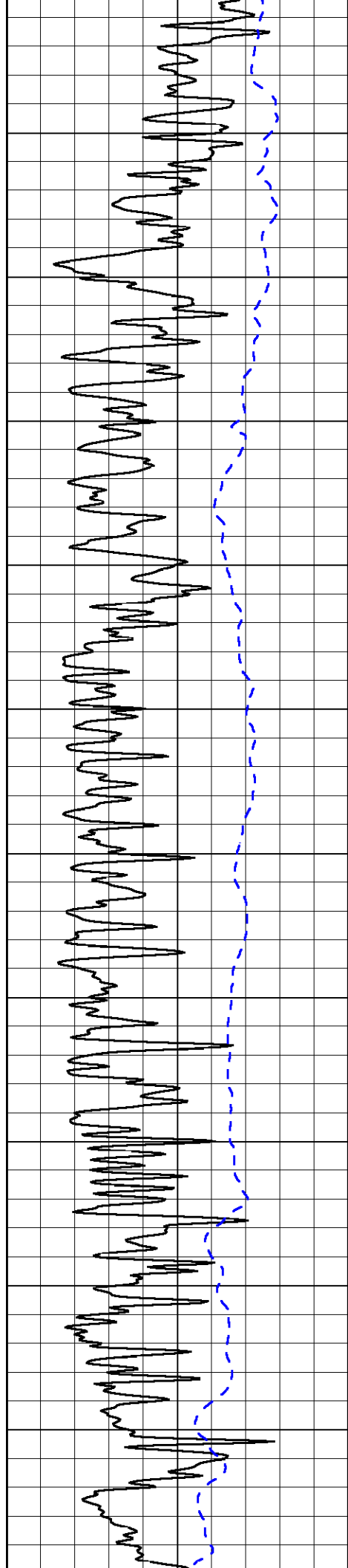
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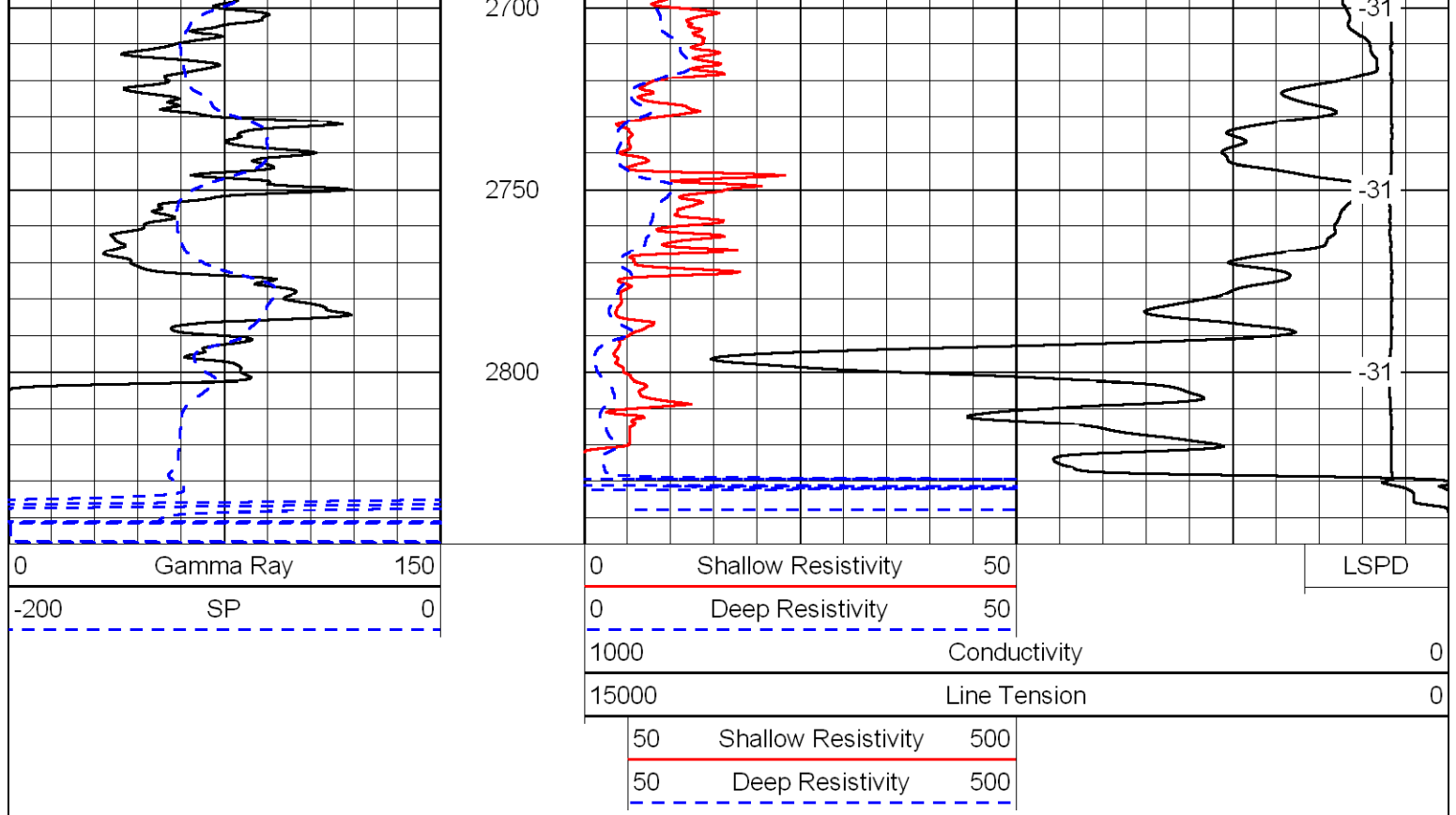
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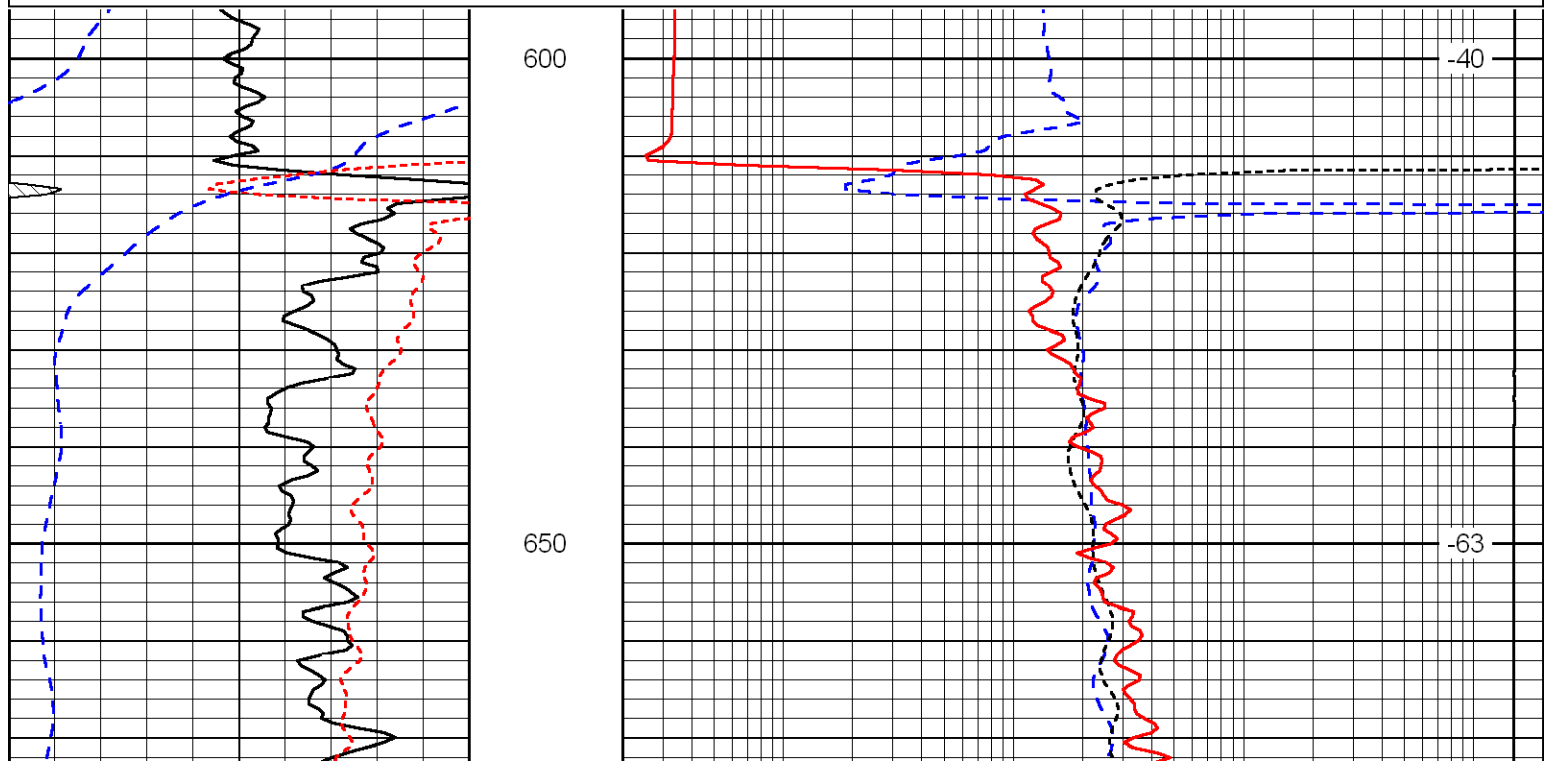
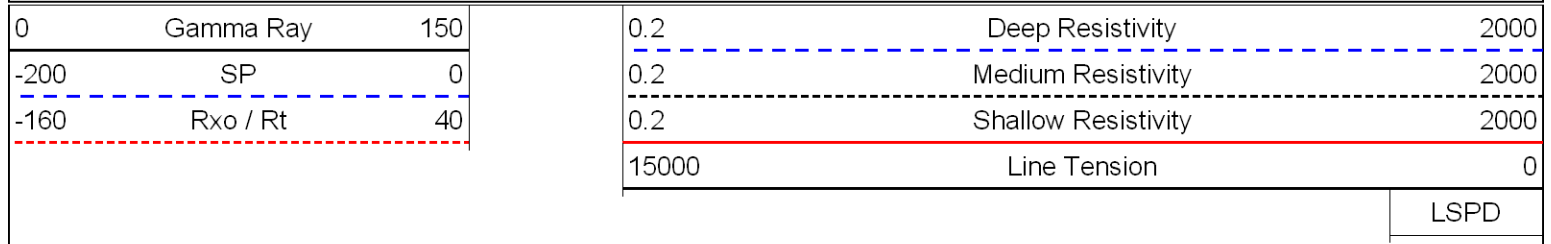
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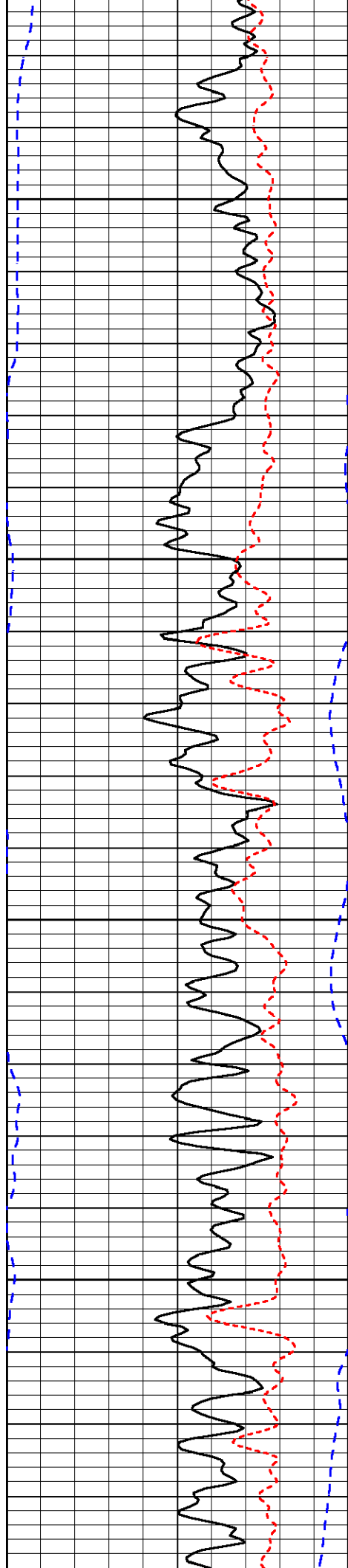






Database File: c:\warrior\data\lebosquet\_northern natural no. 2\lebosquethd.db  
Dataset Pathname: dil/lebos2in  
Presentation Format: dil  
Dataset Creation: Sun Dec 07 08:38:19 2008  
Charted by: Depth in Feet scaled 1:240



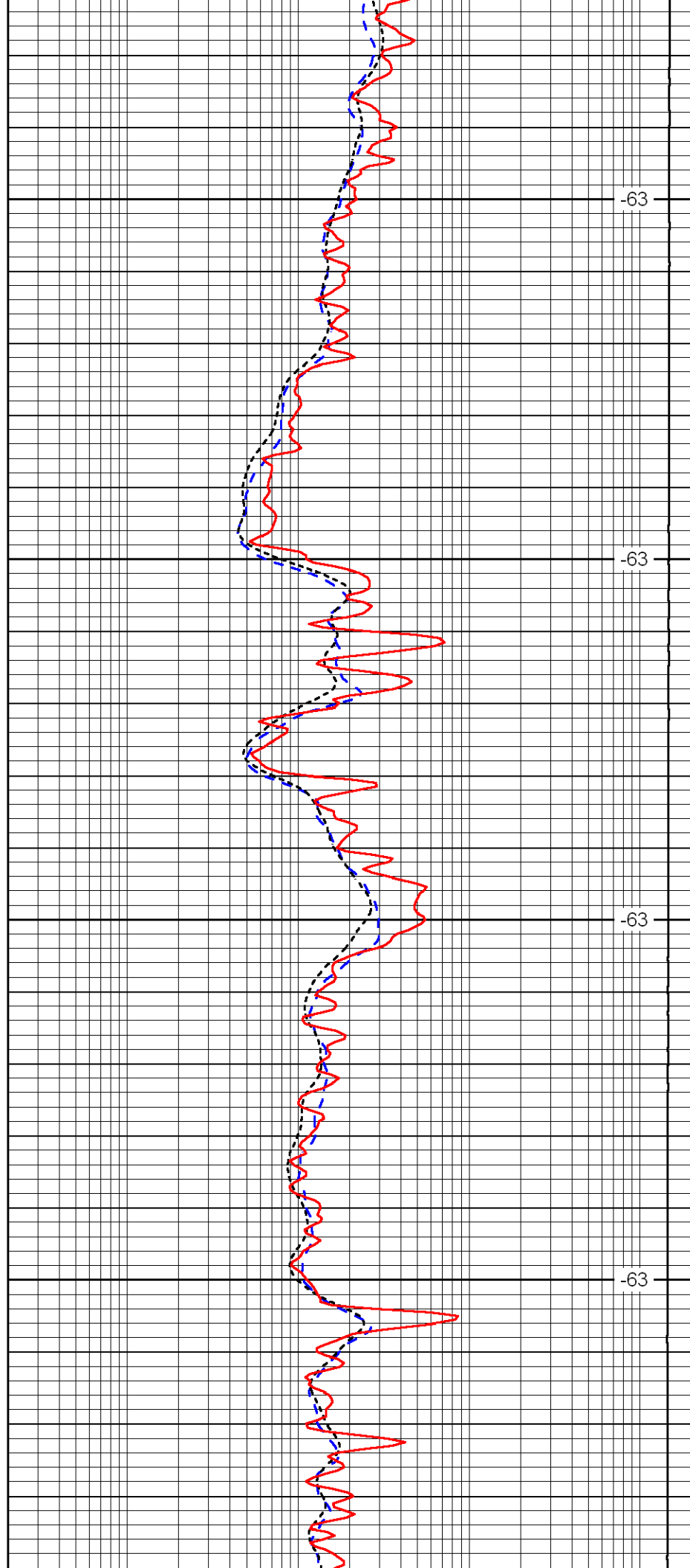


700

750

800

850

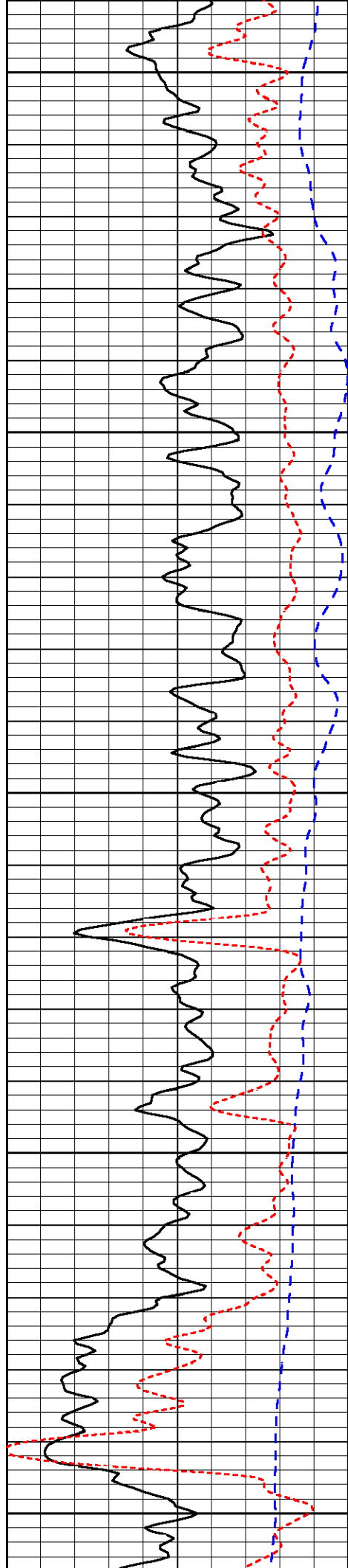


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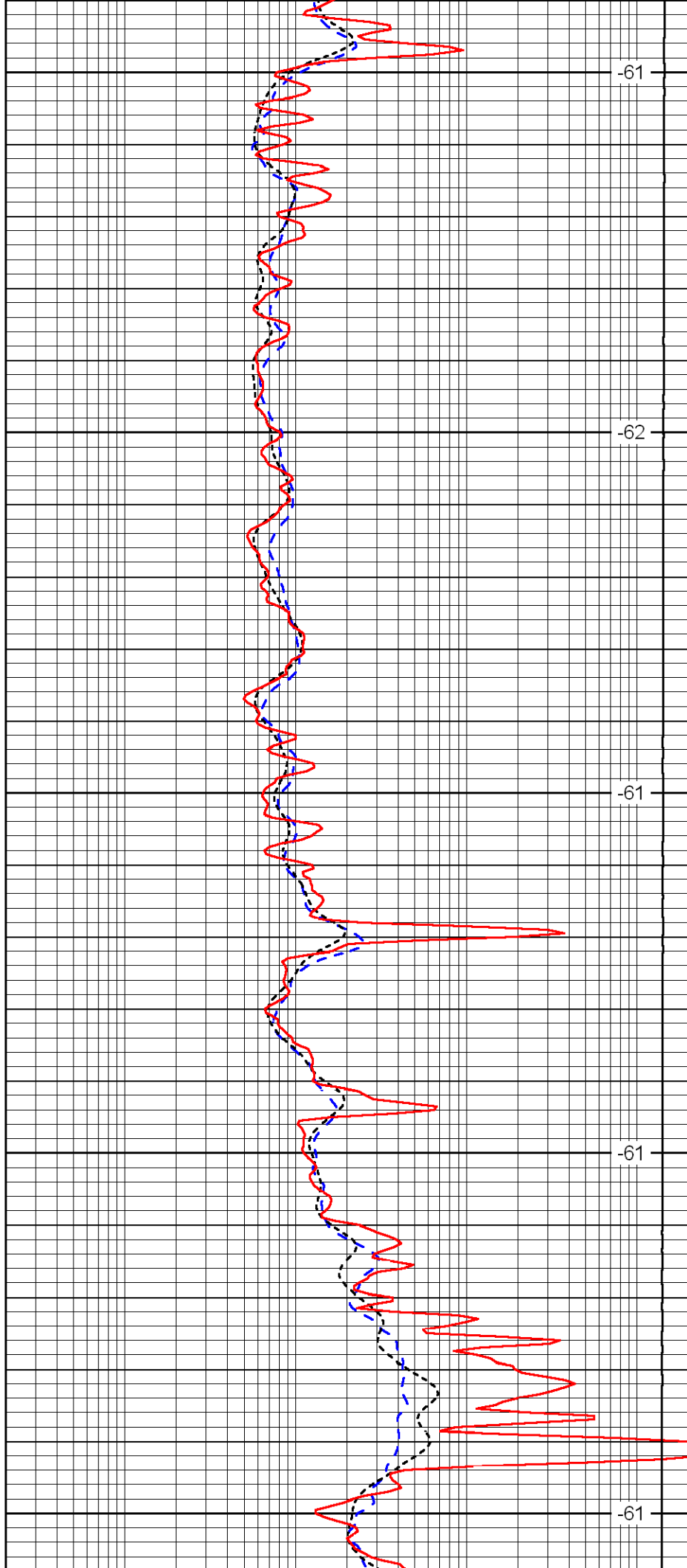
900

950

1000

1050

1100



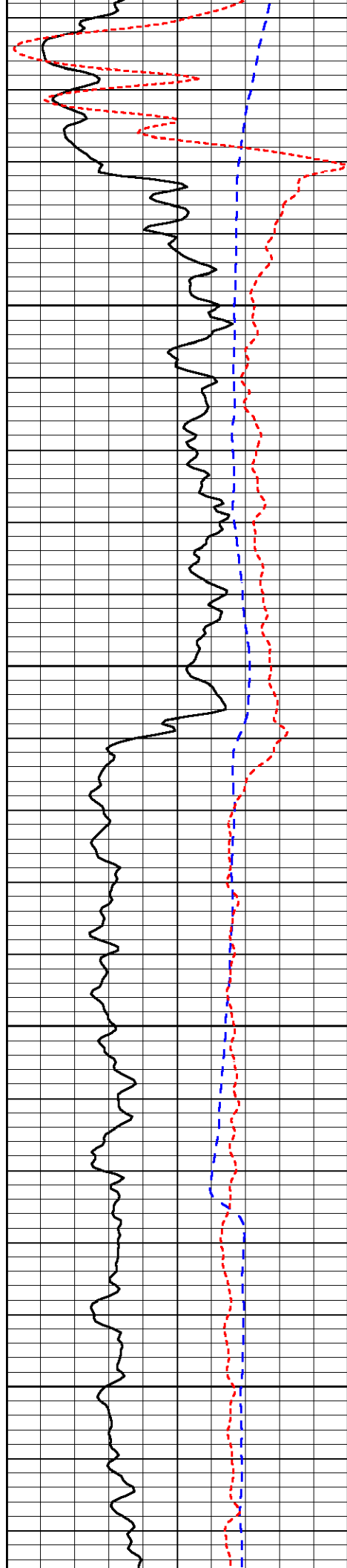
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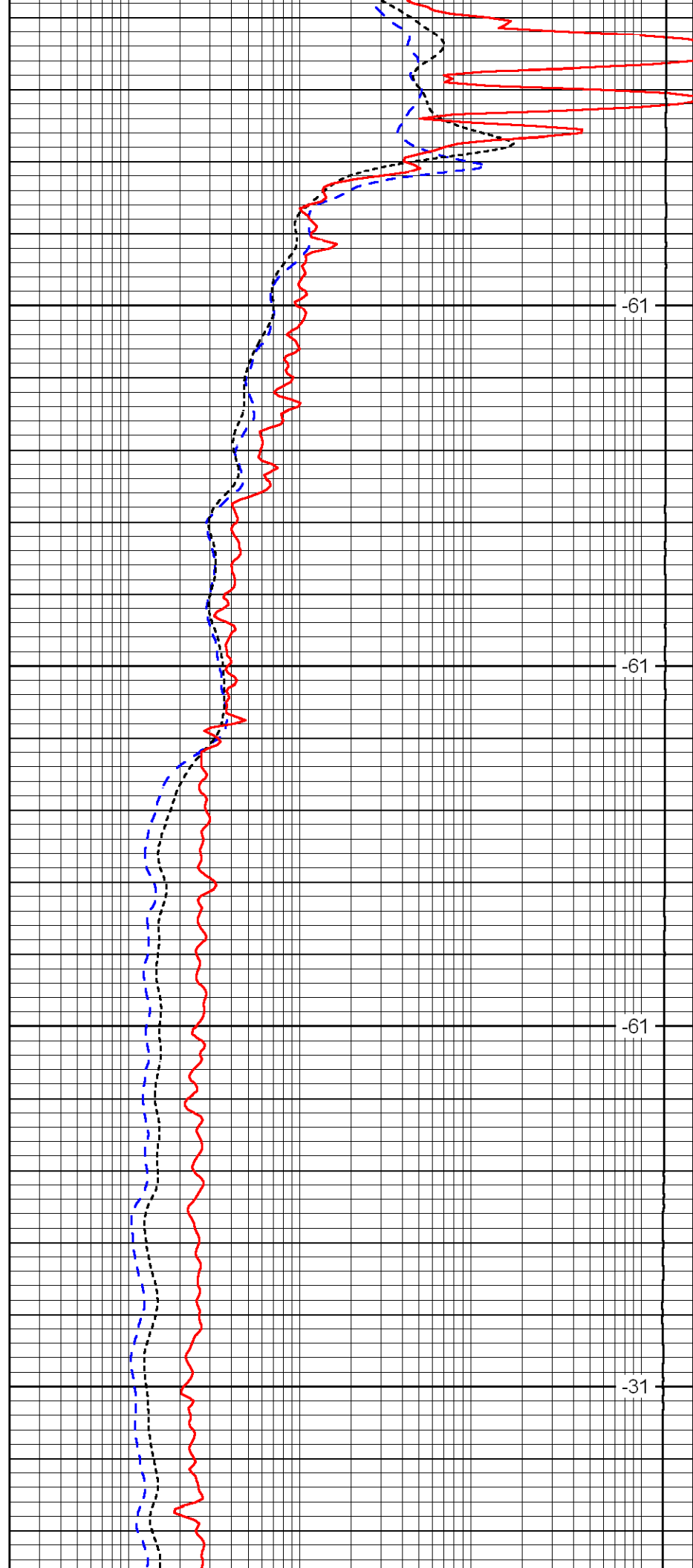


1150

1200

1250

1300

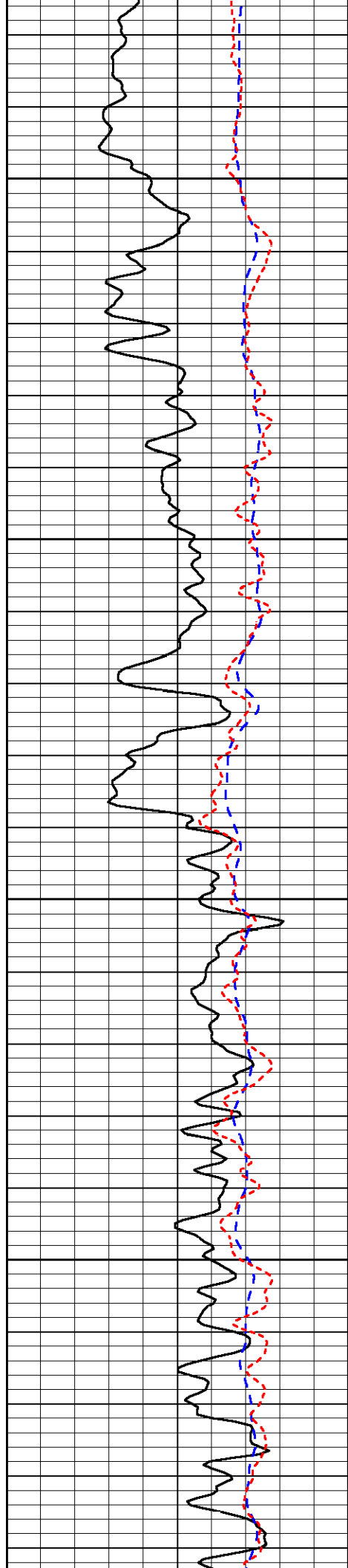


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-61

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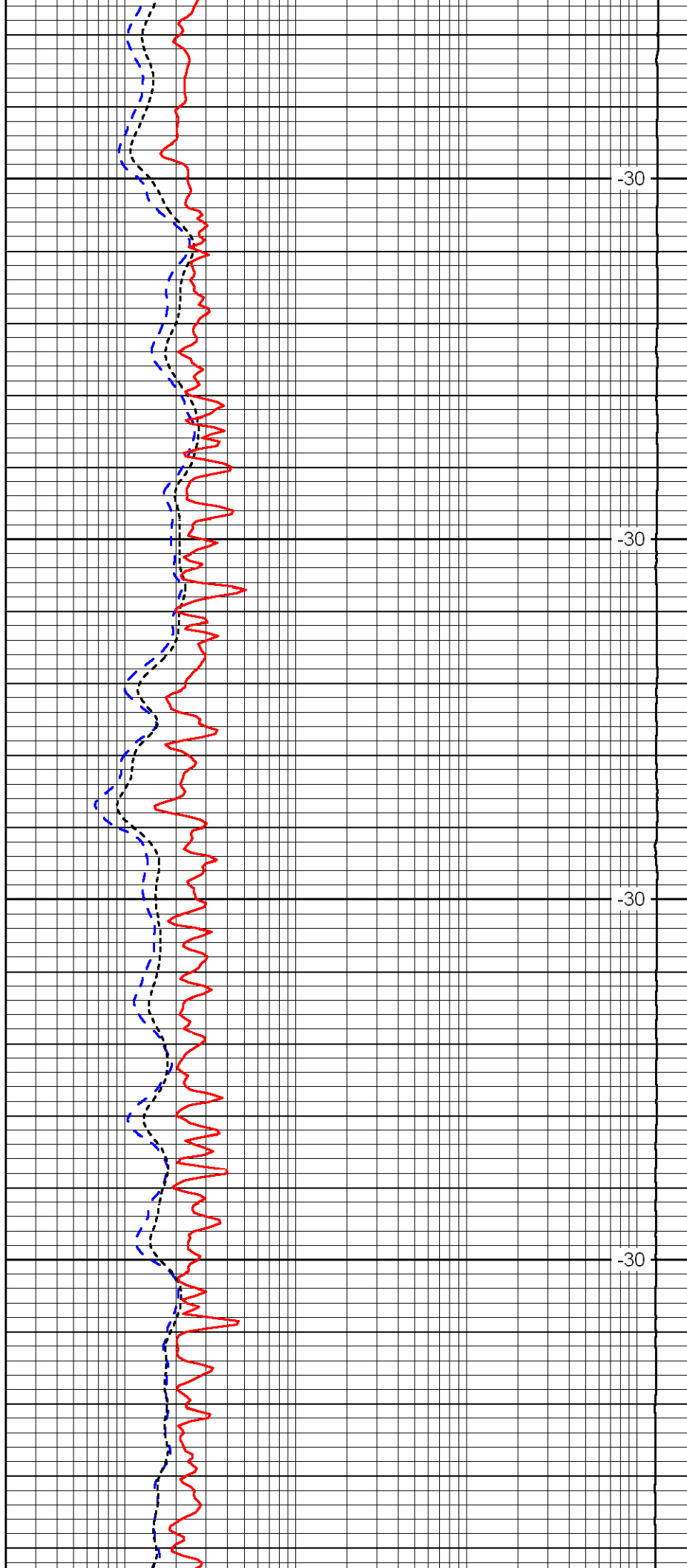


1350

1400

1450

1500

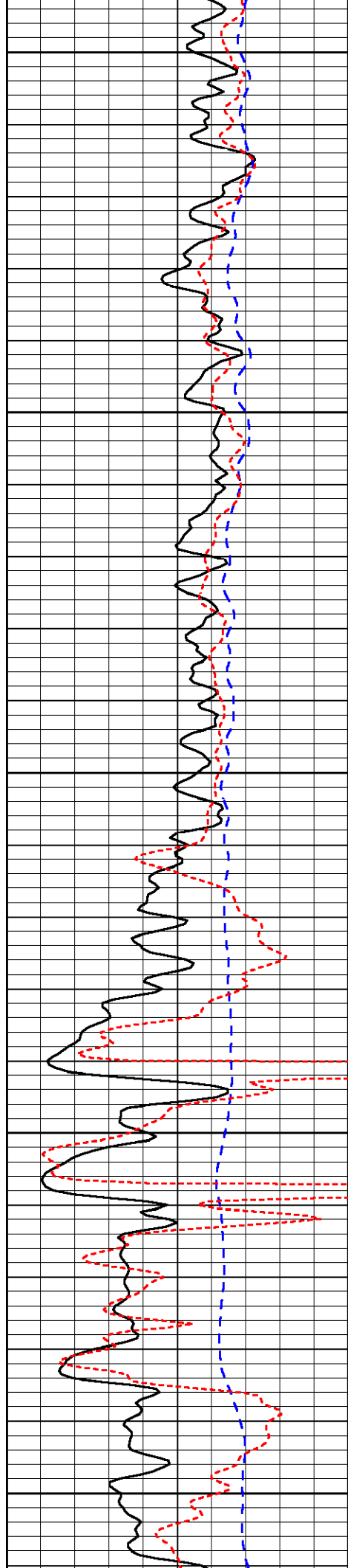


-30

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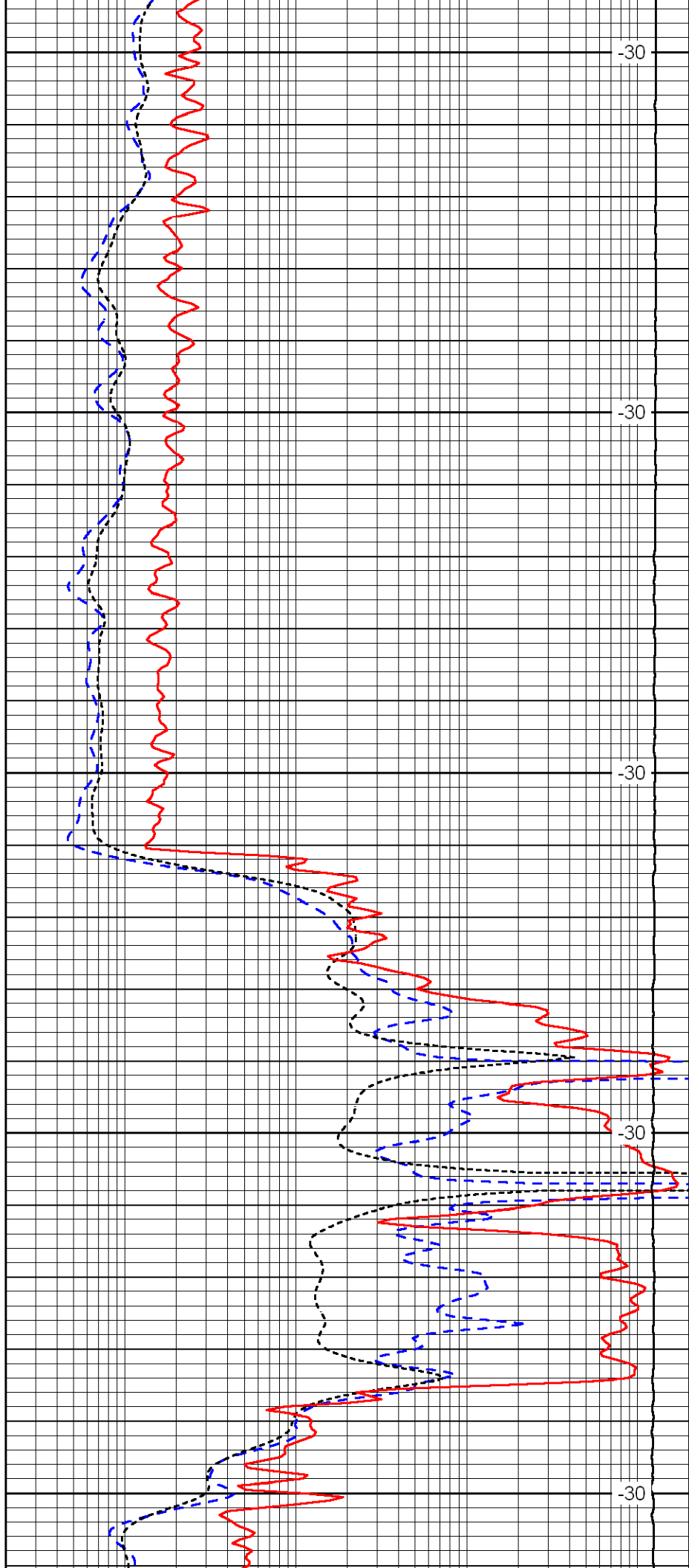
1550

1600

1650

1700

1750



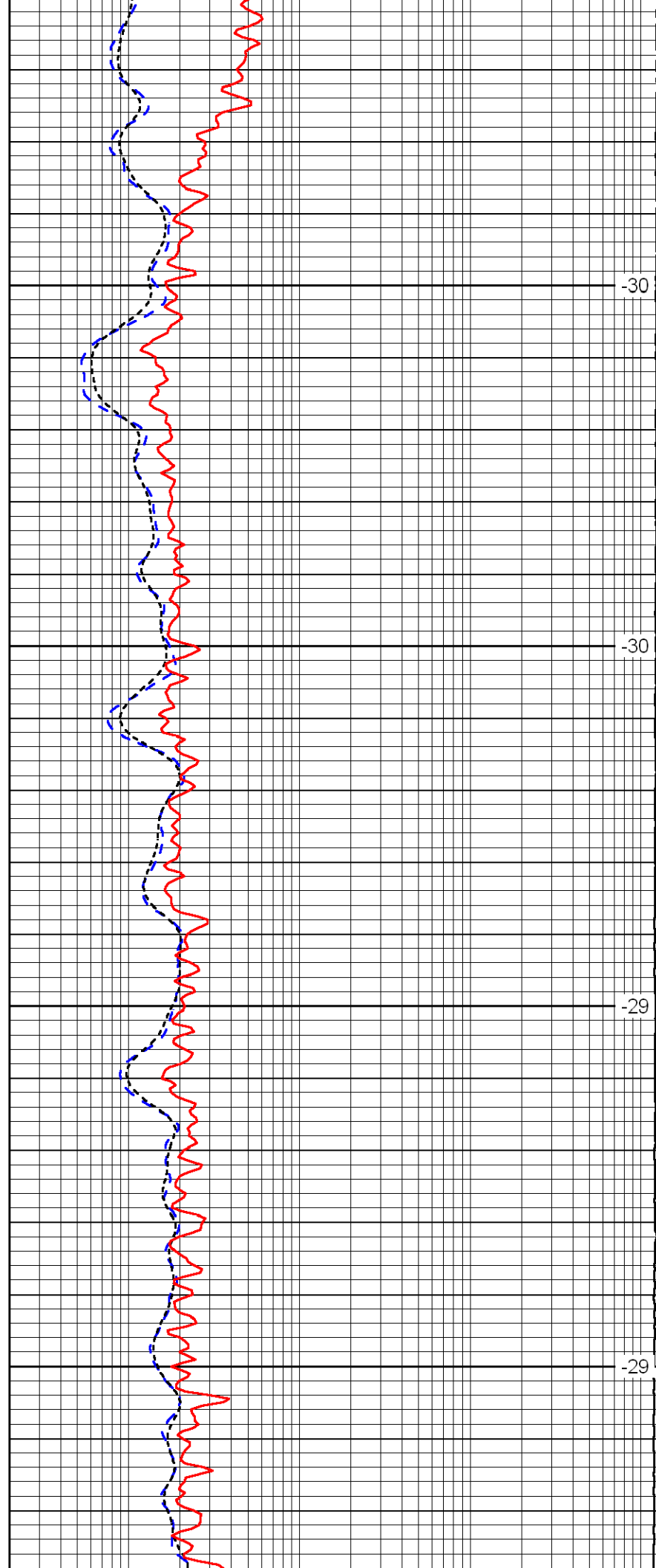
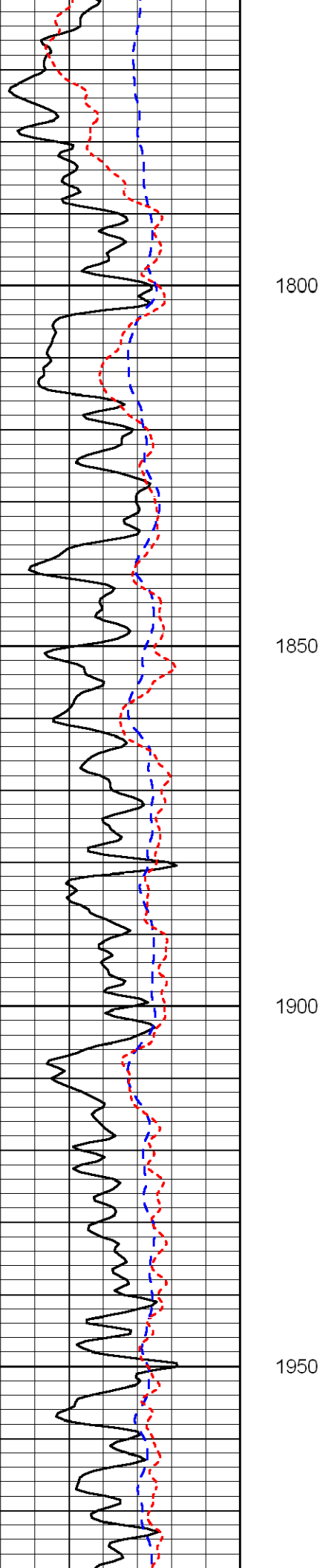
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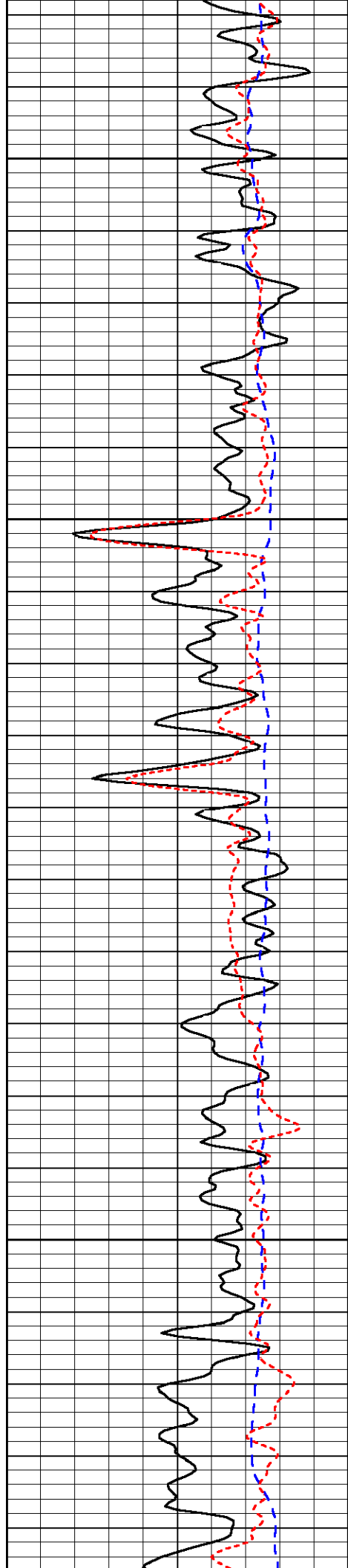
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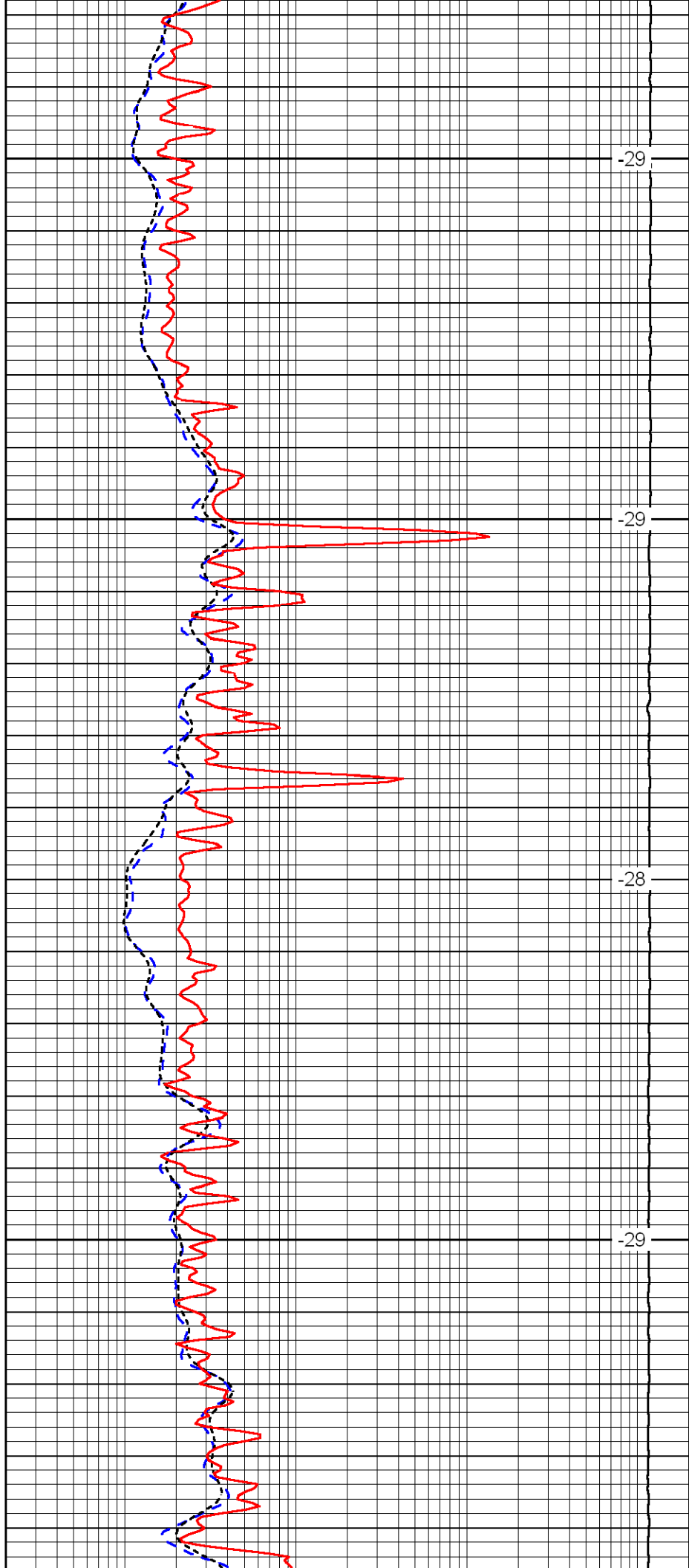


2000

2050

2100

2150

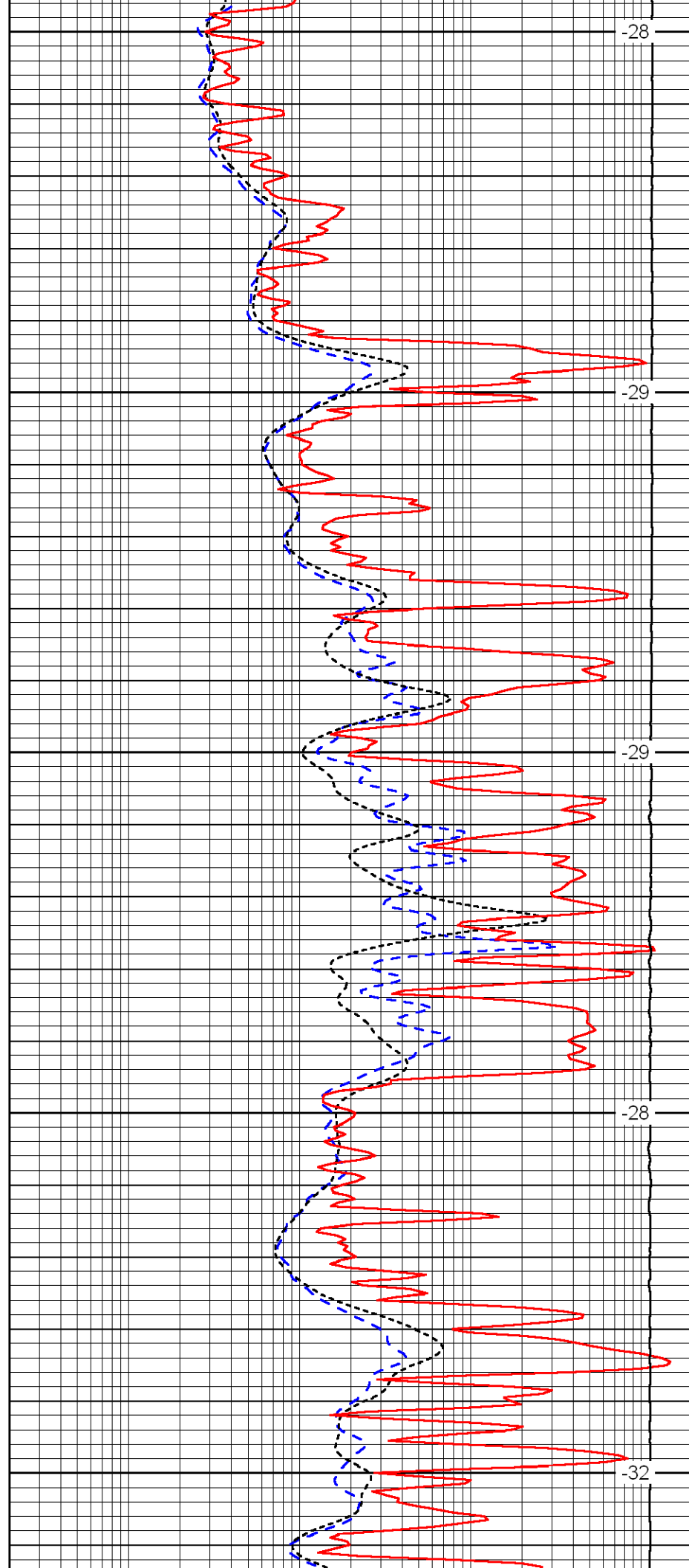
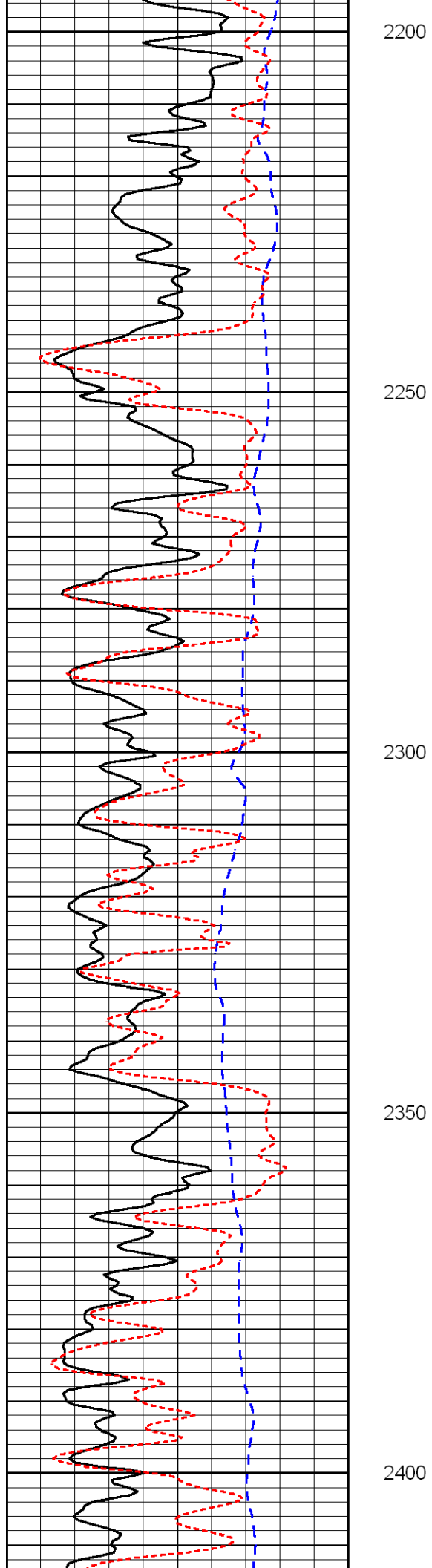


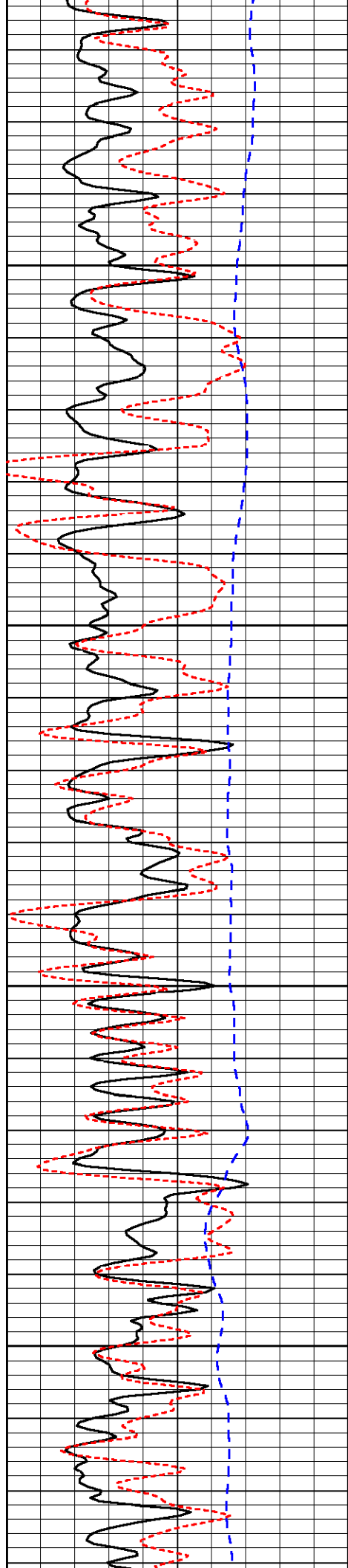
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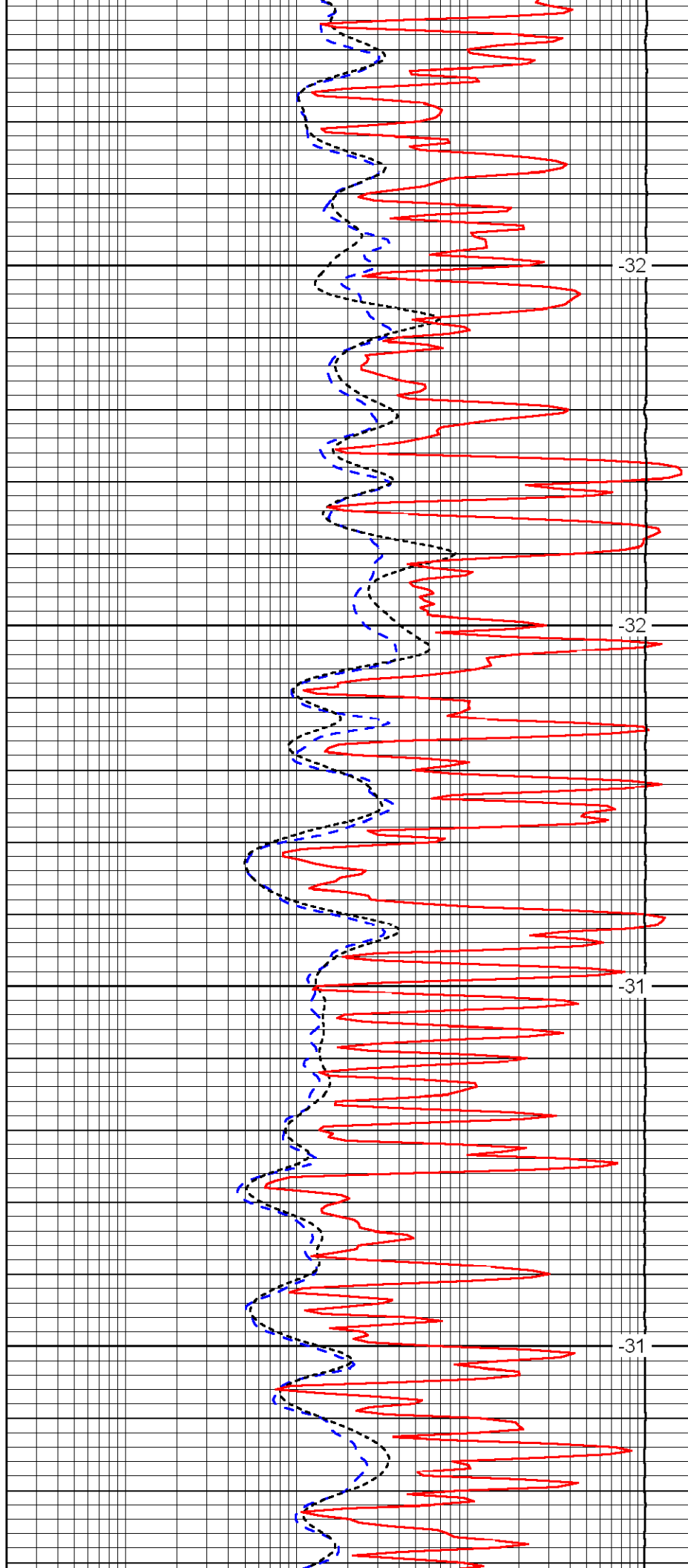


2450

2500

2550

2600

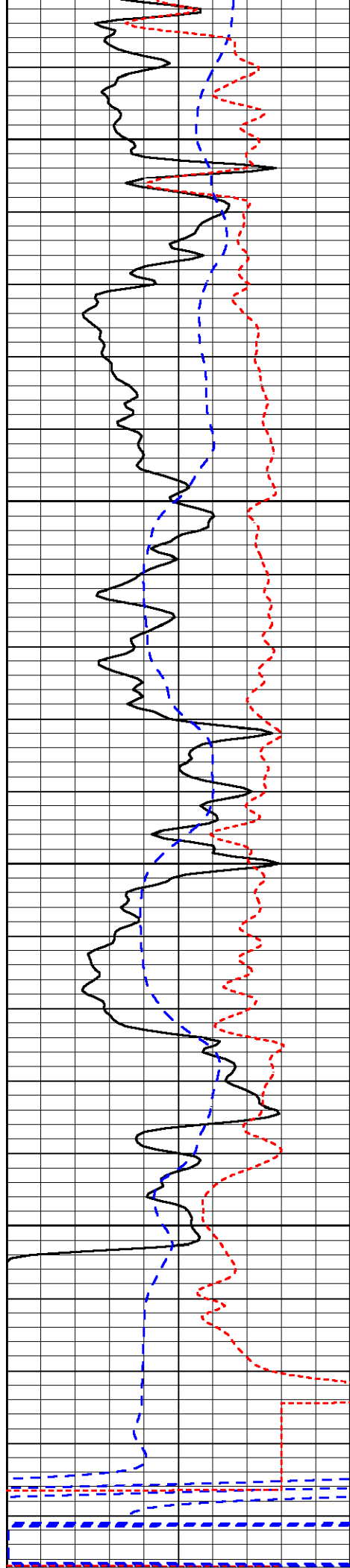


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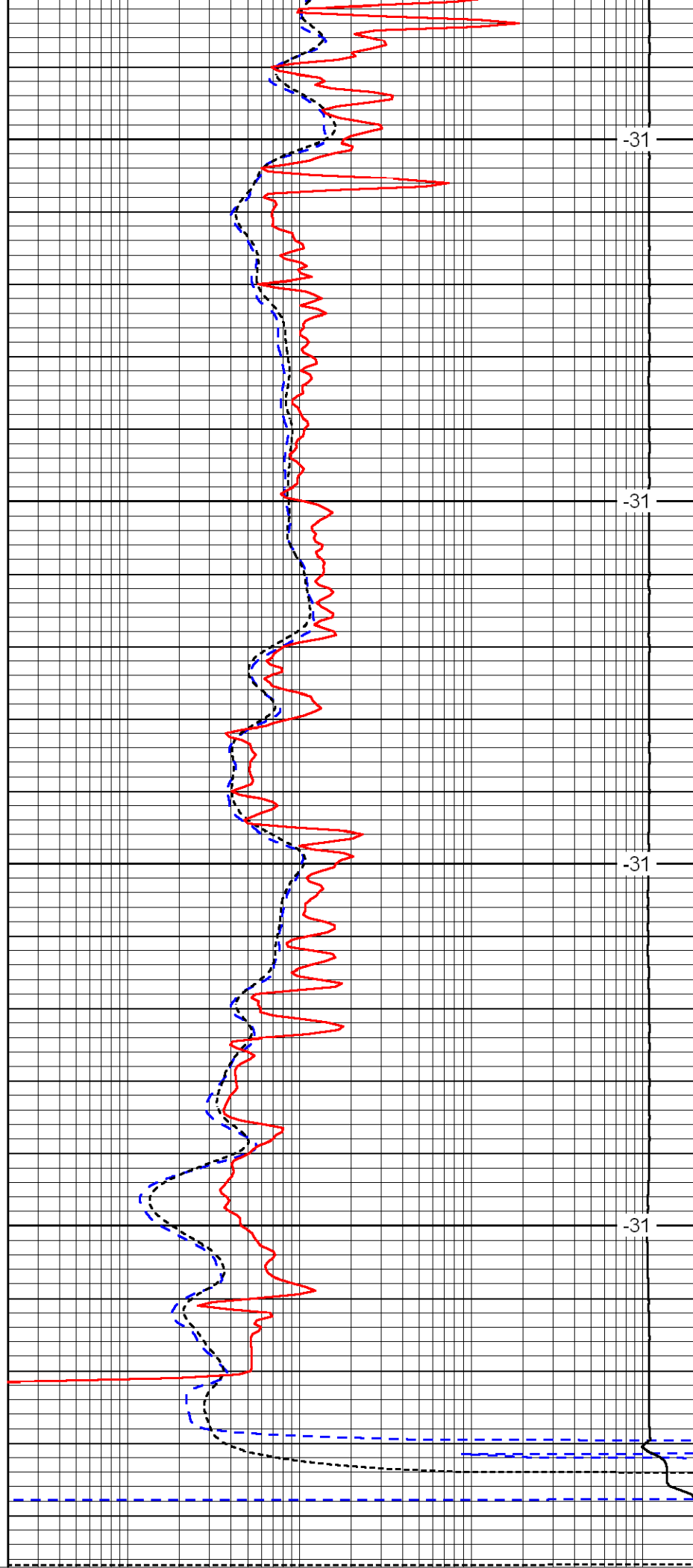


2650

2700

2750

2800



-31

-31

-31

-31

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP        | 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 |