

# LOG-TECH



## Dual Induction Log

DIGITAL LOG

(785) 625-3858

API No. API 15-083-21573-00-00

Company American Warrior, Inc.

Well Beltz No. 1-23

Field Jetmore

County Hodgeman State

Kansas

Location 1660' FSL & 525' FEL

Sec: 23

Twp: 22S

Rge: 24W

Permanent Datum Ground Level Elevation 2412  
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Other Services  
CNL/CDL  
MEL  
Elevation  
K.B. 2424  
D.F. 2412  
G.L. 2412

|                        |             |  |  |
|------------------------|-------------|--|--|
| Date                   | 11/11/08    |  |  |
| Run Number             | One         |  |  |
| Depth Driller          | 4760        |  |  |
| Depth Logger           | 4768        |  |  |
| Bottom Logged Interval | 4767        |  |  |
| Top Log Interval       | 200         |  |  |
| Casing Driller         | 8.625 @ 211 |  |  |
| Casing Logger          | 224         |  |  |
| Bit Size               | 7.875       |  |  |
| Type Fluid in Hole     | Chemical    |  |  |
| Salinity, ppm CL       | 3600        |  |  |
| Density / Viscosity    | 9.2 59      |  |  |
| pH / Fluid Loss        | 10.5 7.2    |  |  |
| Source of Sample       | Flowline    |  |  |
| Rm @ Meas. Temp        | 1.2 @ 54    |  |  |
| Rmf @ Meas. Temp       | .9 @ 54     |  |  |
| Rmc @ Meas. Temp       | 1.62 @ 54   |  |  |
| Source of Rmf / Rmc    | Charts      |  |  |
| Rm @ BHT               | .74 @ 126   |  |  |
| Operating Rig Time     | 4 Hours     |  |  |
| Max Rec. Temp. F       | 126         |  |  |
| Equipment Number       | 17          |  |  |
| Location               | Hays        |  |  |
| Recorded By            | M. Garrison |  |  |
| Witnessed By           | Jason Alm   |  |  |

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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

9 S of Hodgeman/Ness County Line to Rd P, 1 W to 217, 3/4 S, W Into

Database File: c:\warrior\data\amwar\_beltz no. 1-23\awhd.db  
Dataset Pathname: dil\awstck  
Presentation Format: dil2in  
Dataset Creation: Wed Nov 12 02:26:14 2008  
Charted by: Depth in Feet scaled 1:600

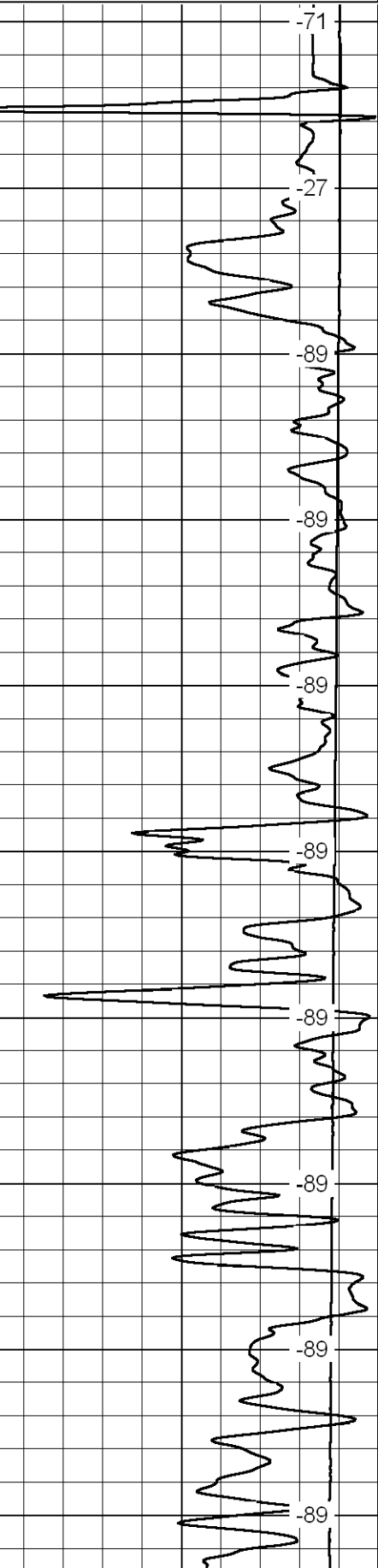
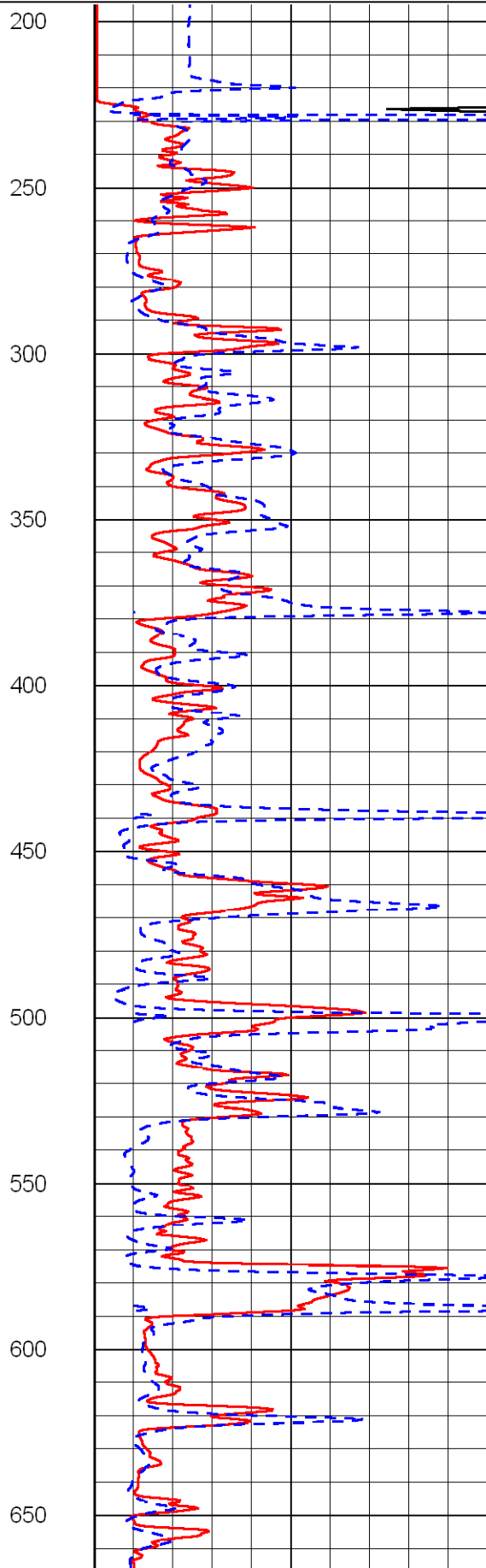
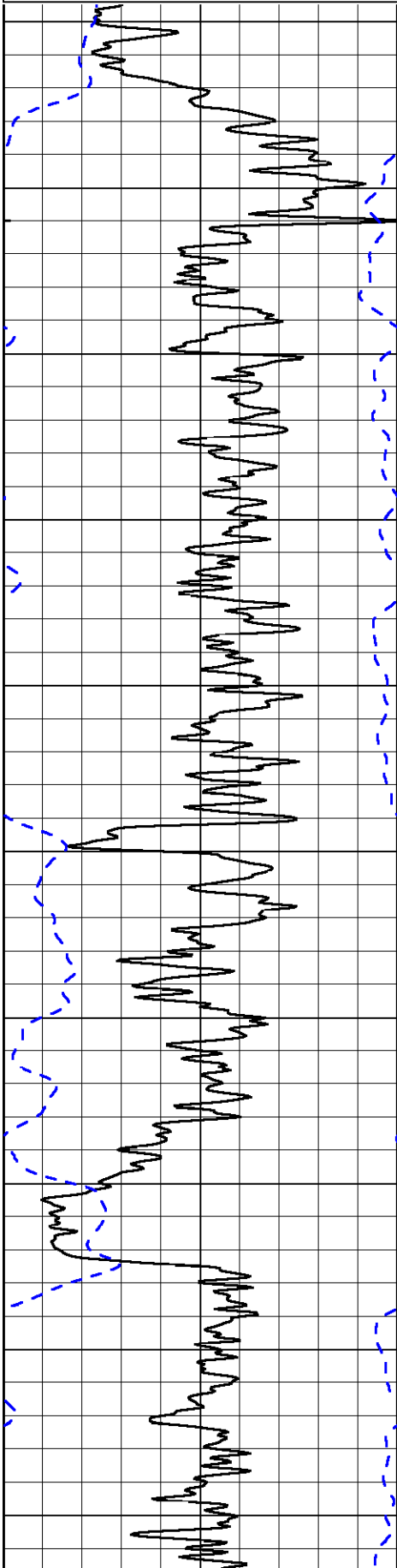
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|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP        | 0   |

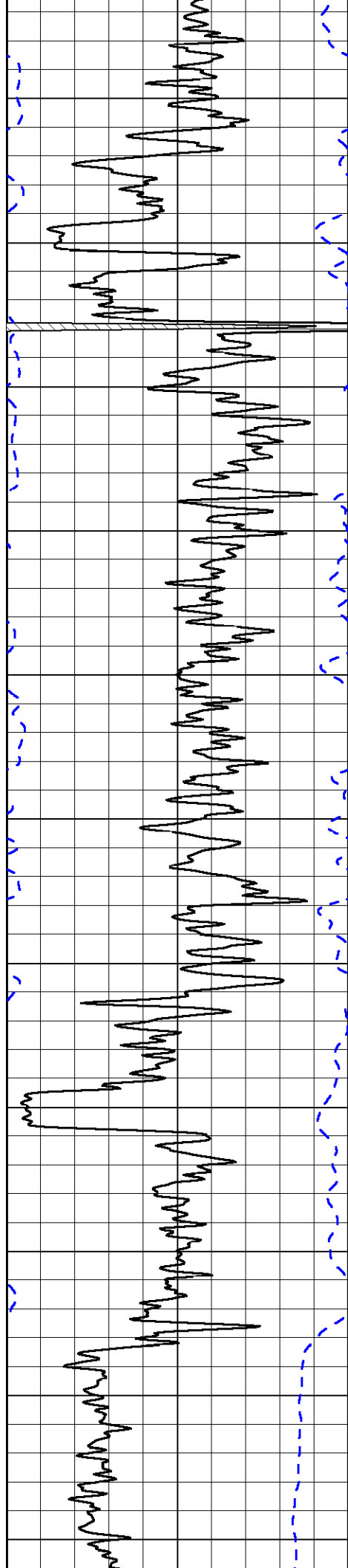
|   |                     |    |
|---|---------------------|----|
| 0 | Shallow Resistivity | 50 |
| 0 | Deep Resistivity    | 50 |

LSPD

|       |              |   |
|-------|--------------|---|
| 1000  | Conductivity | 0 |
| 15000 | Line Tension | 0 |

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





700

750

800

850

900

950

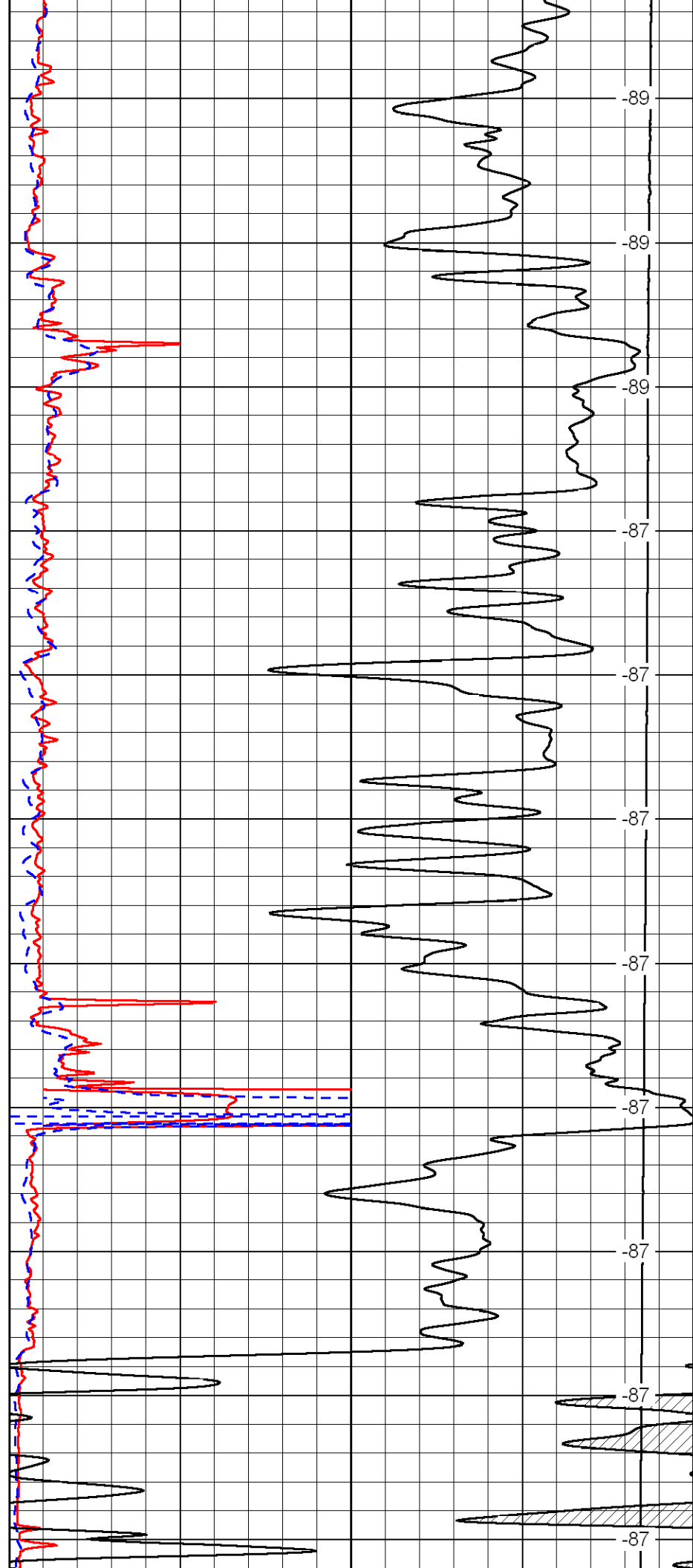
1000

1050

1100

1150

1200



-89

-89

-89

-87

-87

-87

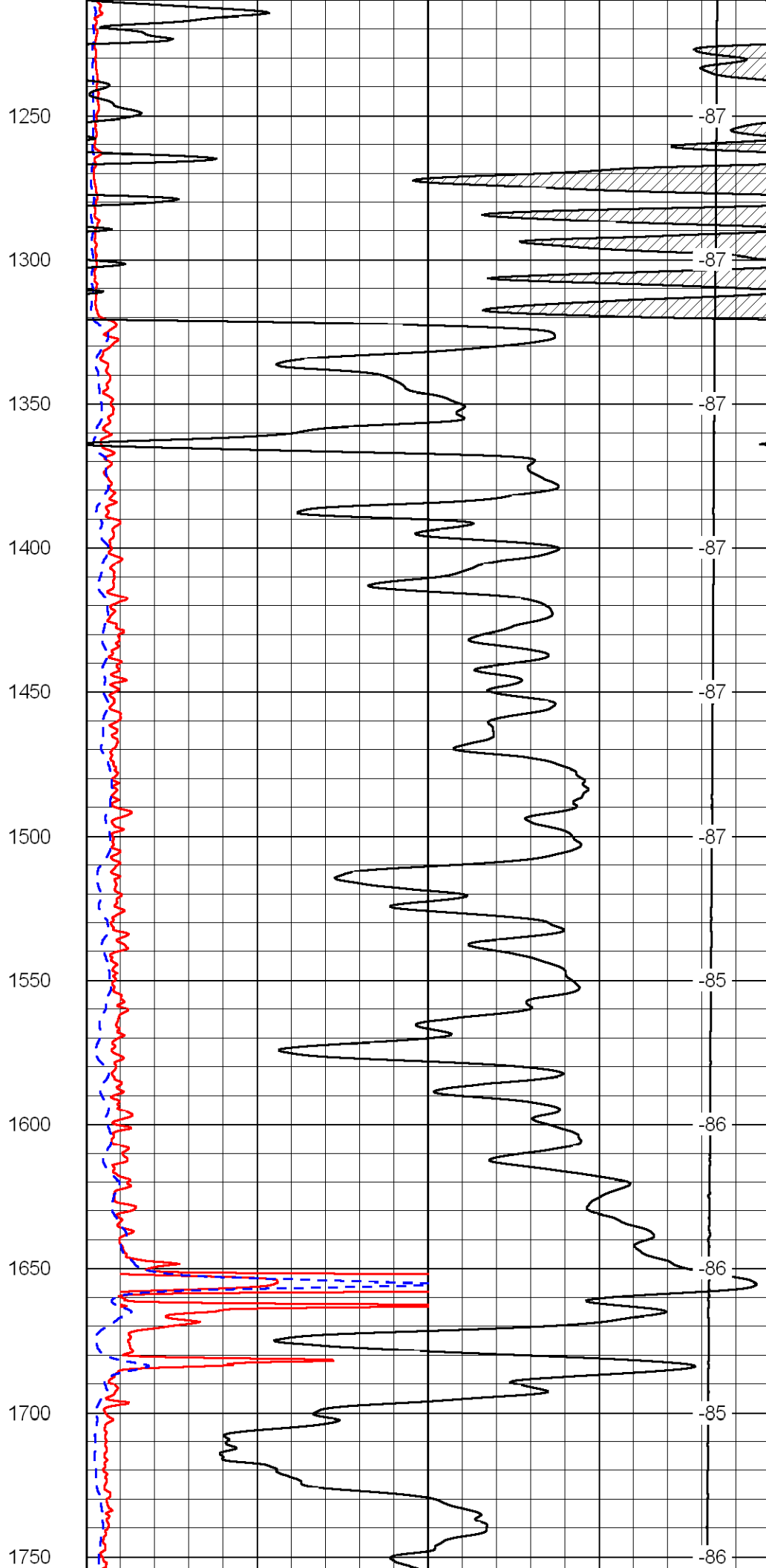
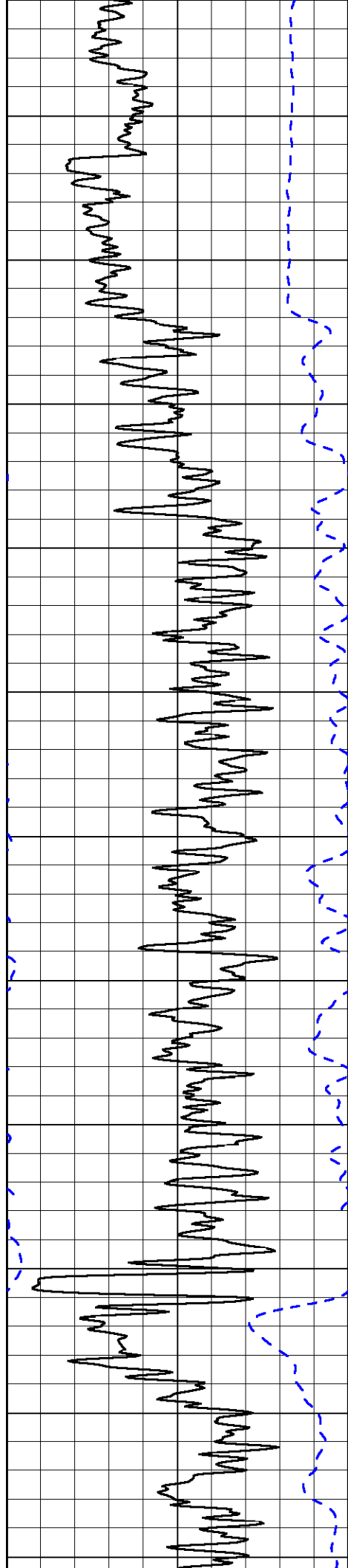
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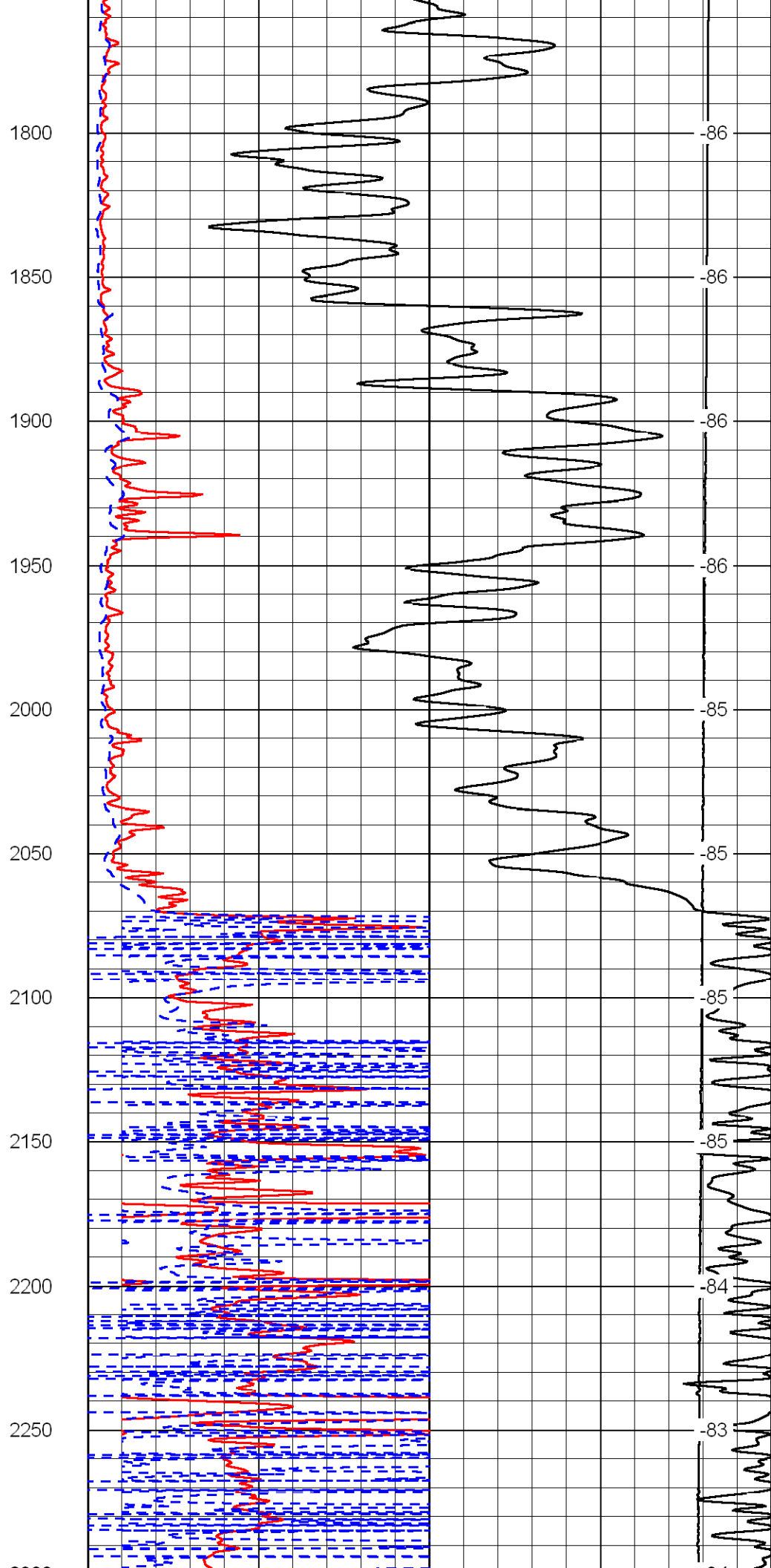
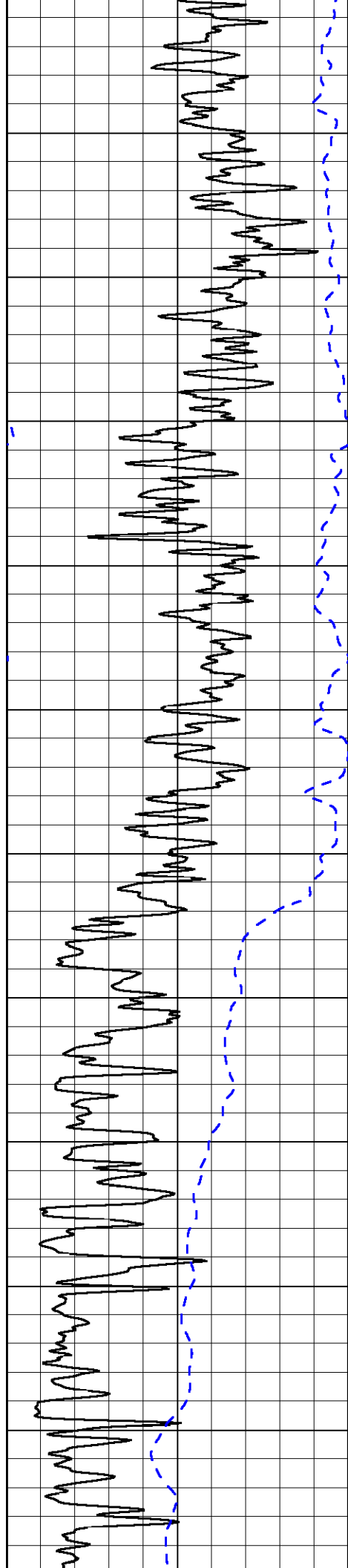
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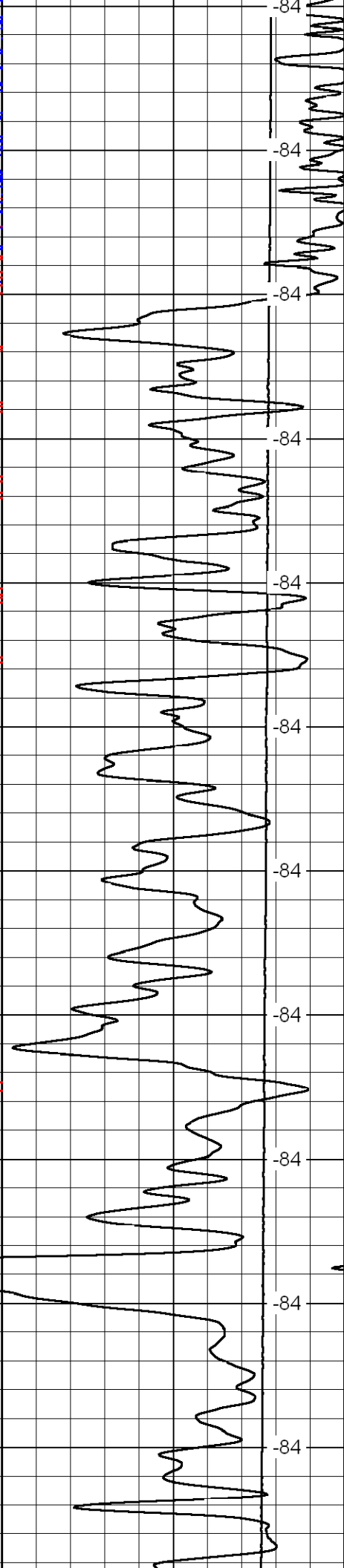
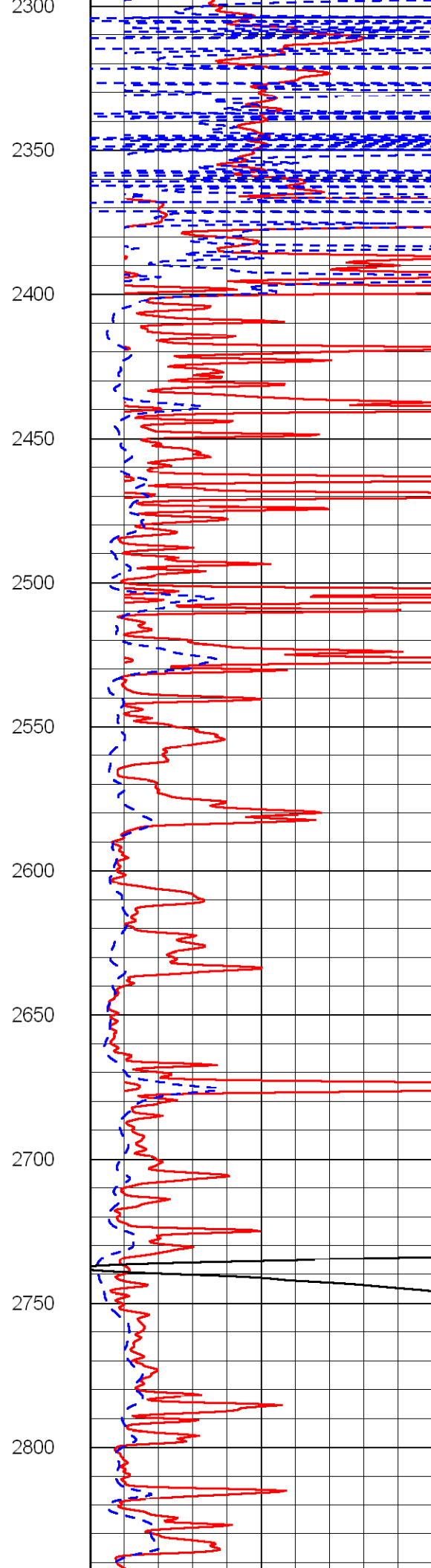
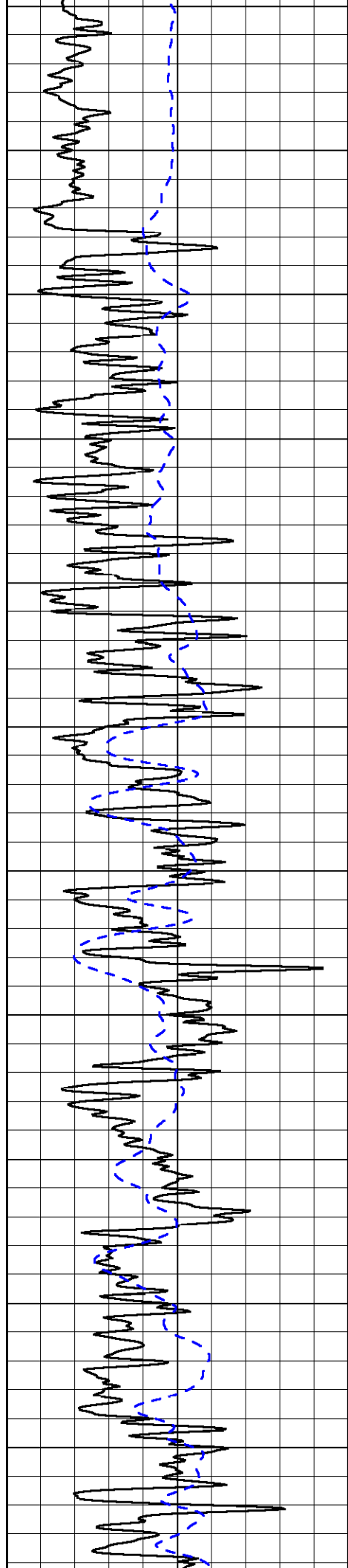
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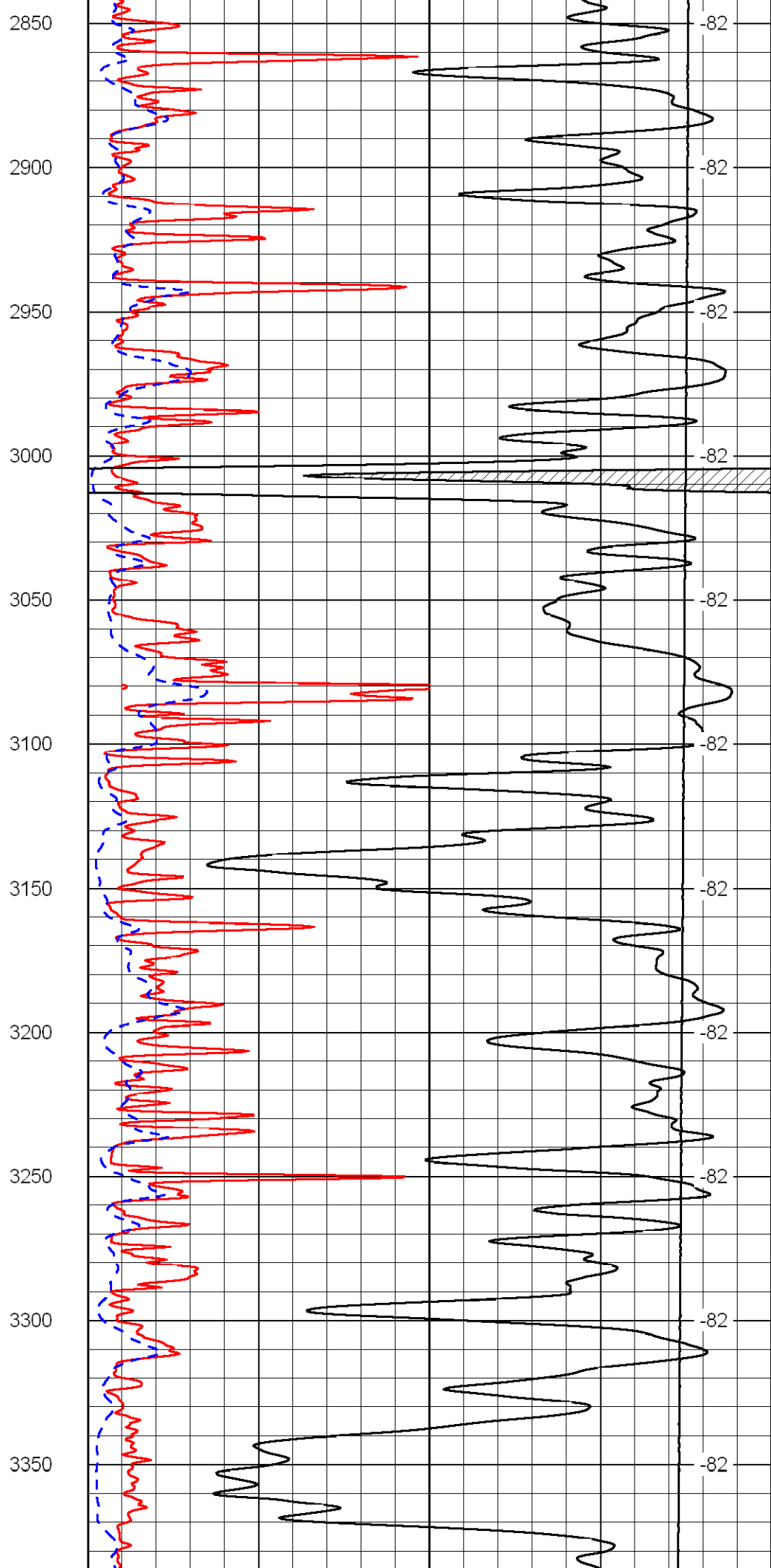
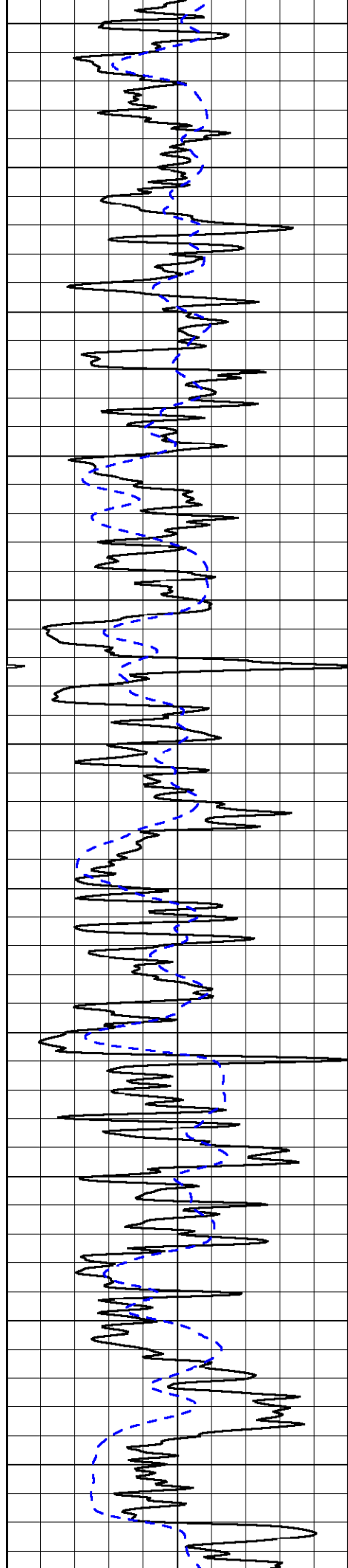
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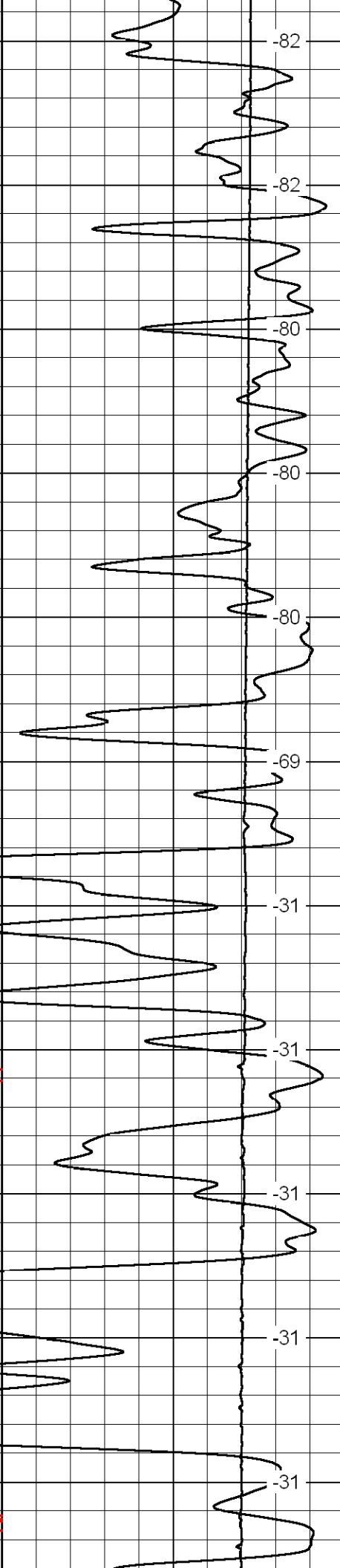
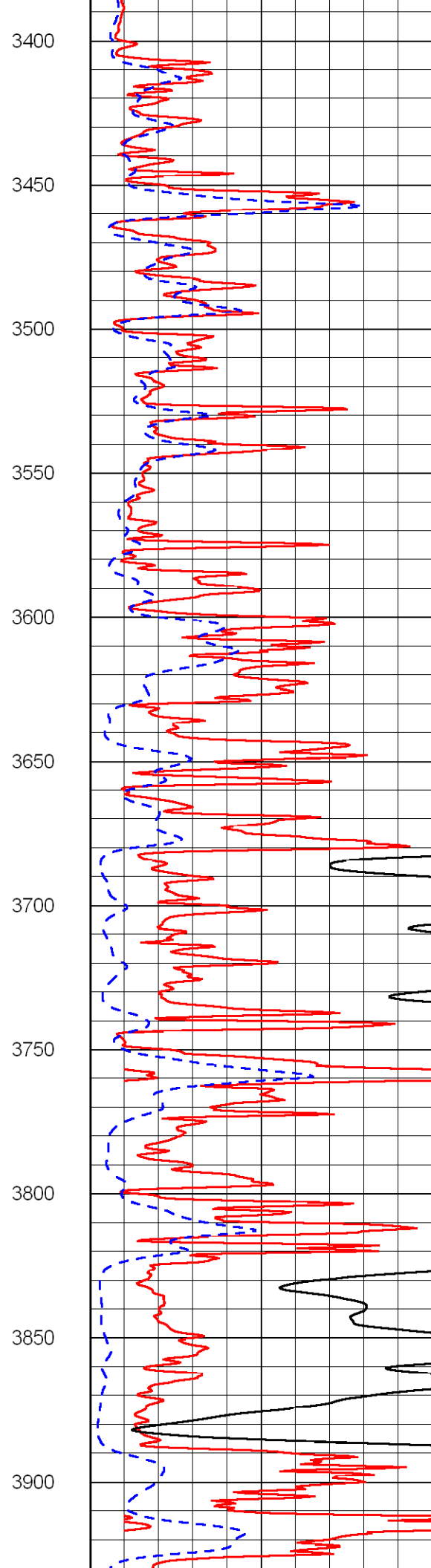
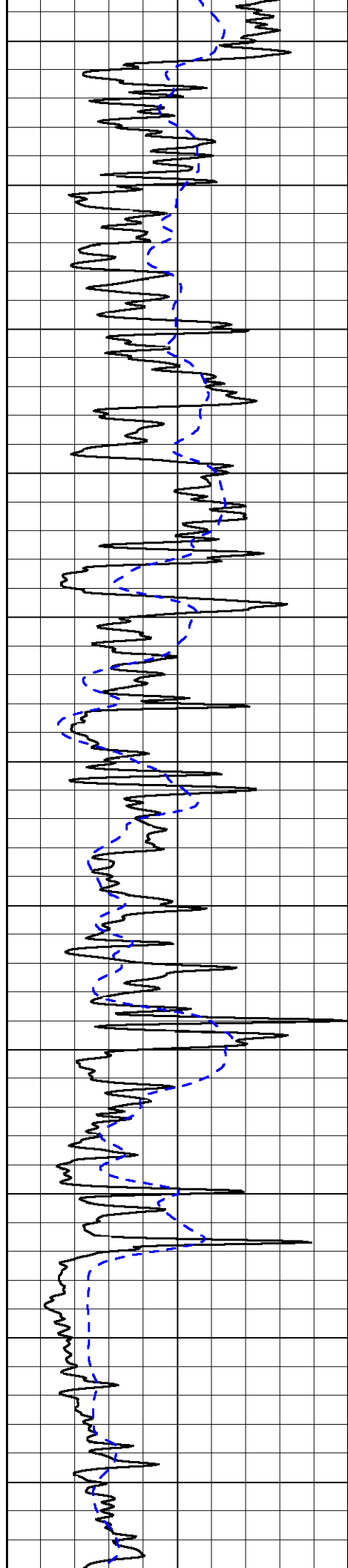
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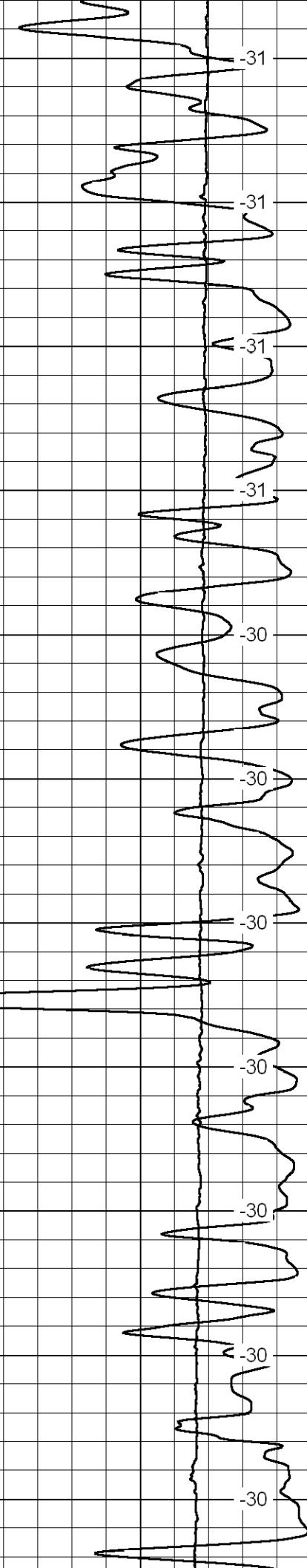
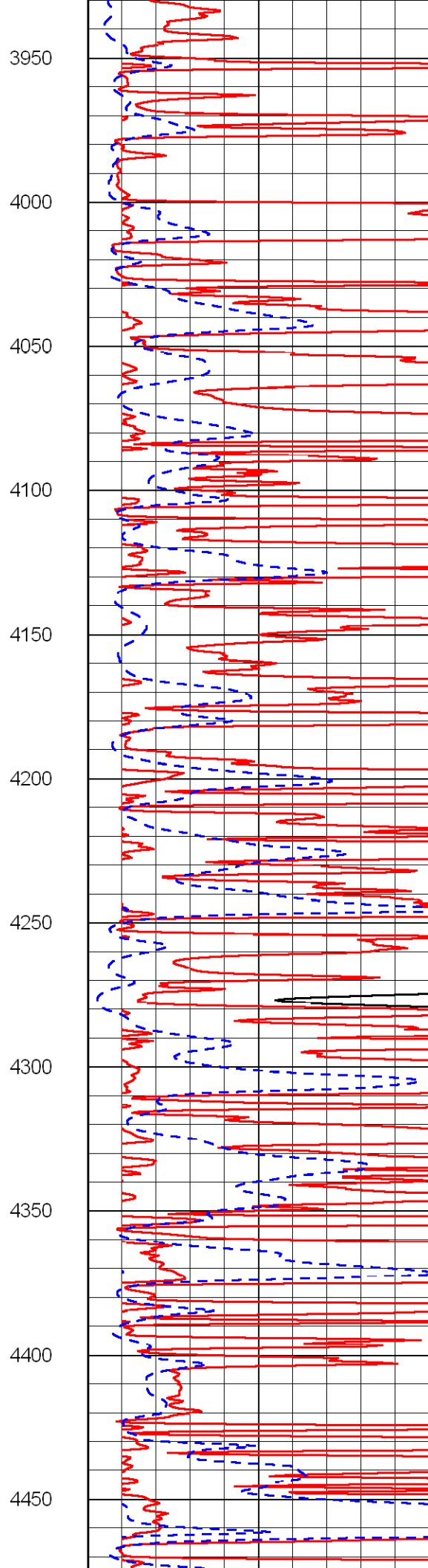
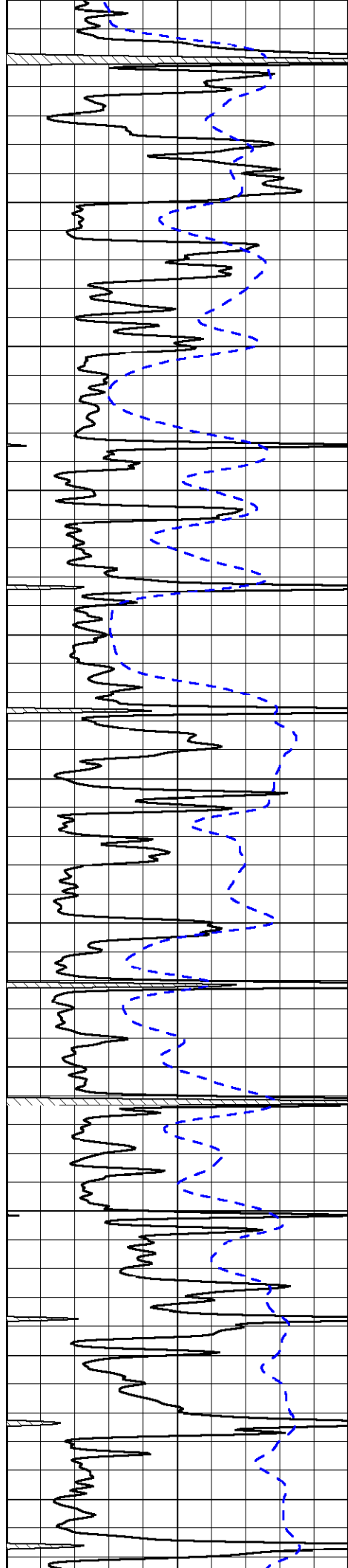


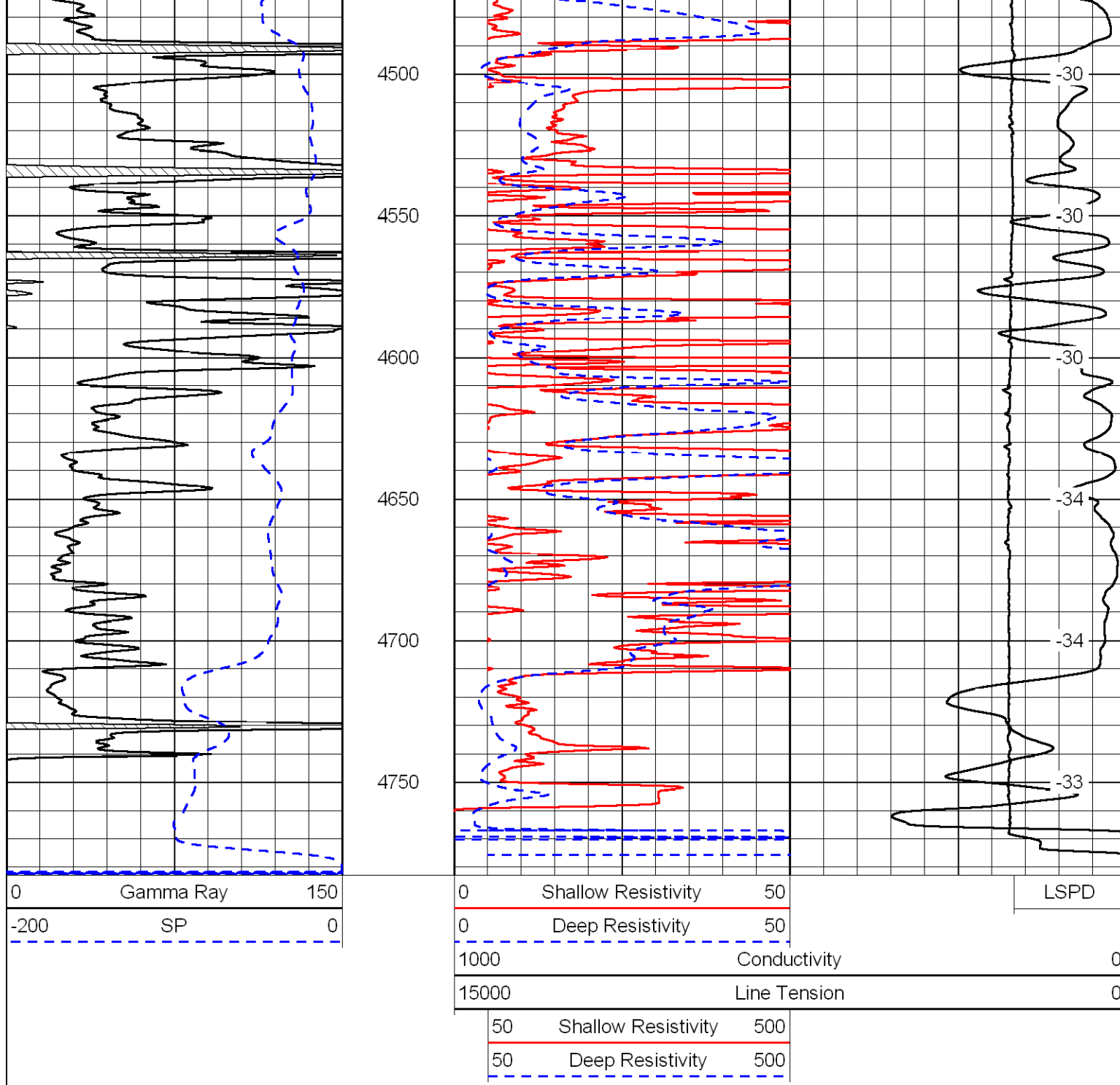




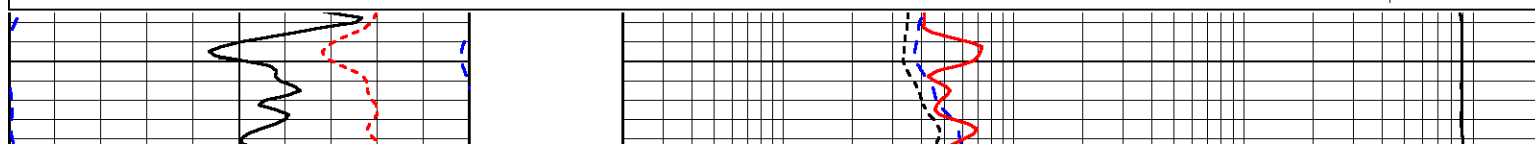
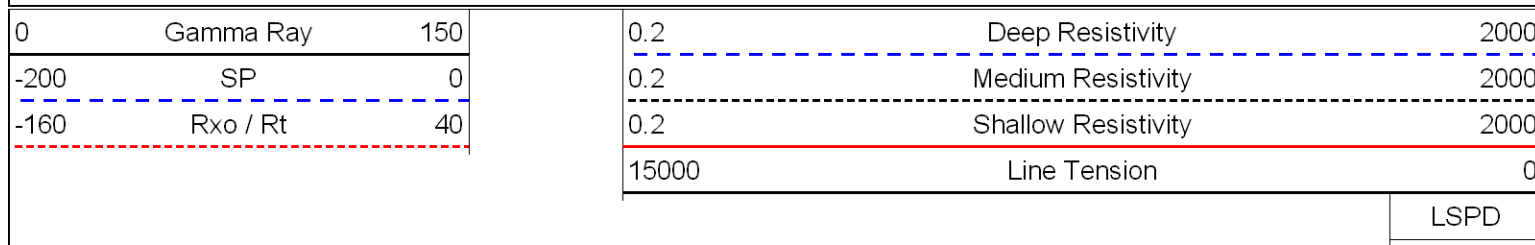


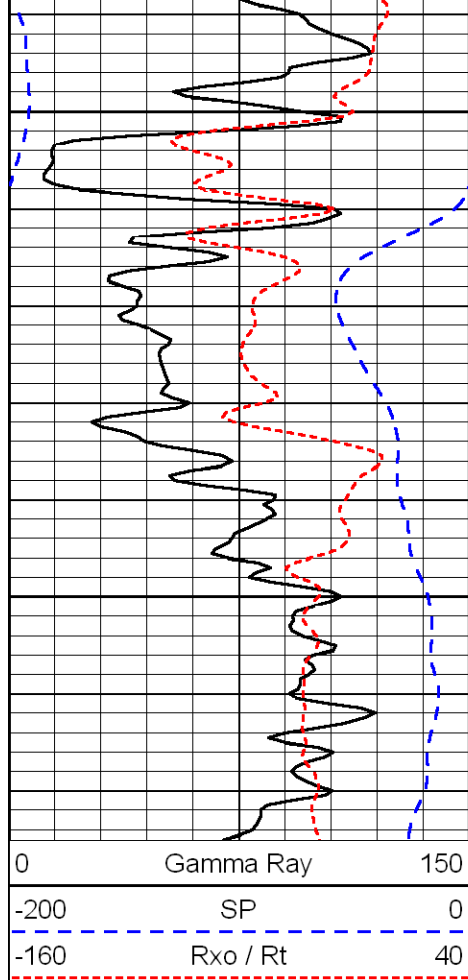






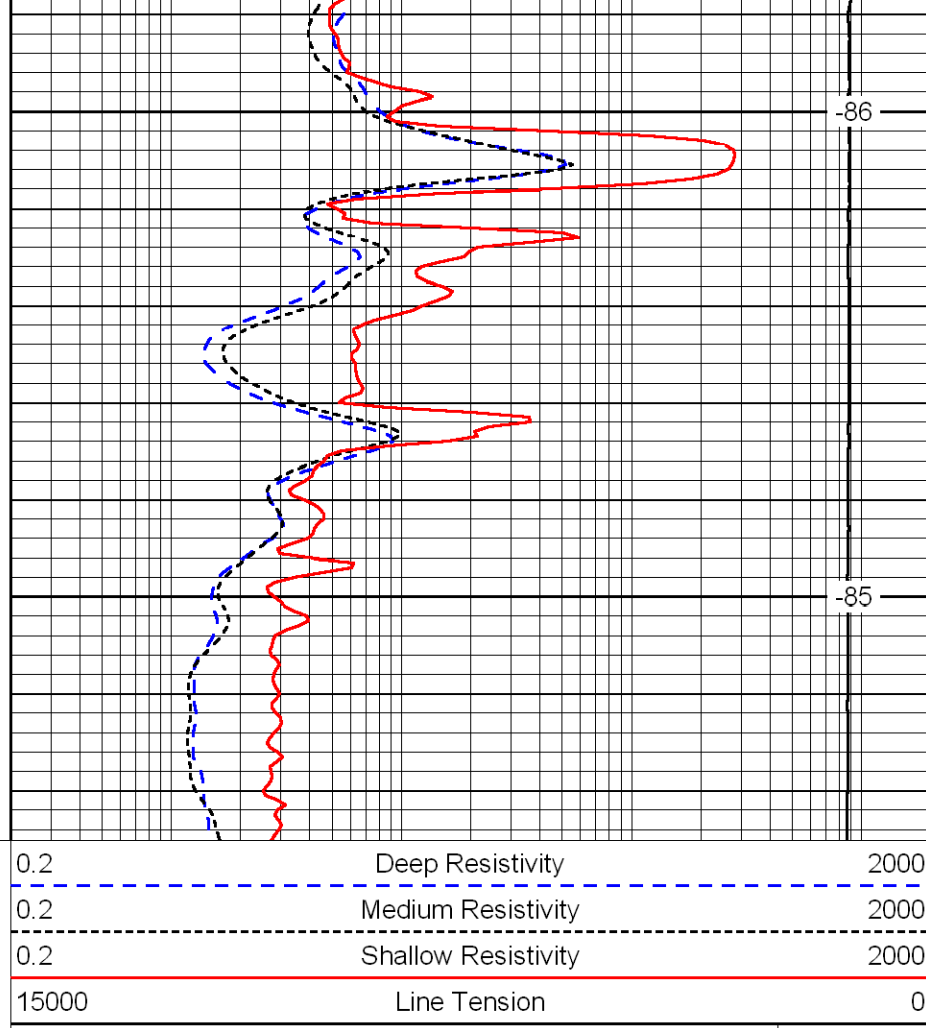
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 Presentation Format: dil  
 Dataset Creation: Wed Nov 12 02:26:14 2008  
 Charted by: Depth in Feet scaled 1:240





1650

1700

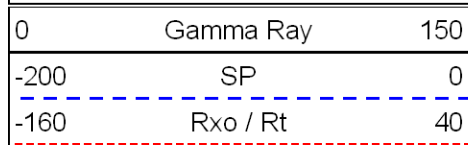


-86

-85

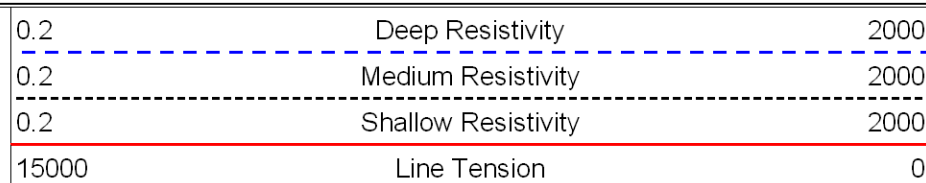
LSPD

Database File: c:\warrior\data\amwar\_beltz no. 1-23\awhd.db  
 Dataset Pathname: dil/awstck  
 Presentation Format: dil  
 Dataset Creation: Wed Nov 12 02:26:14 2008  
 Charted by: Depth in Feet scaled 1:240



3700

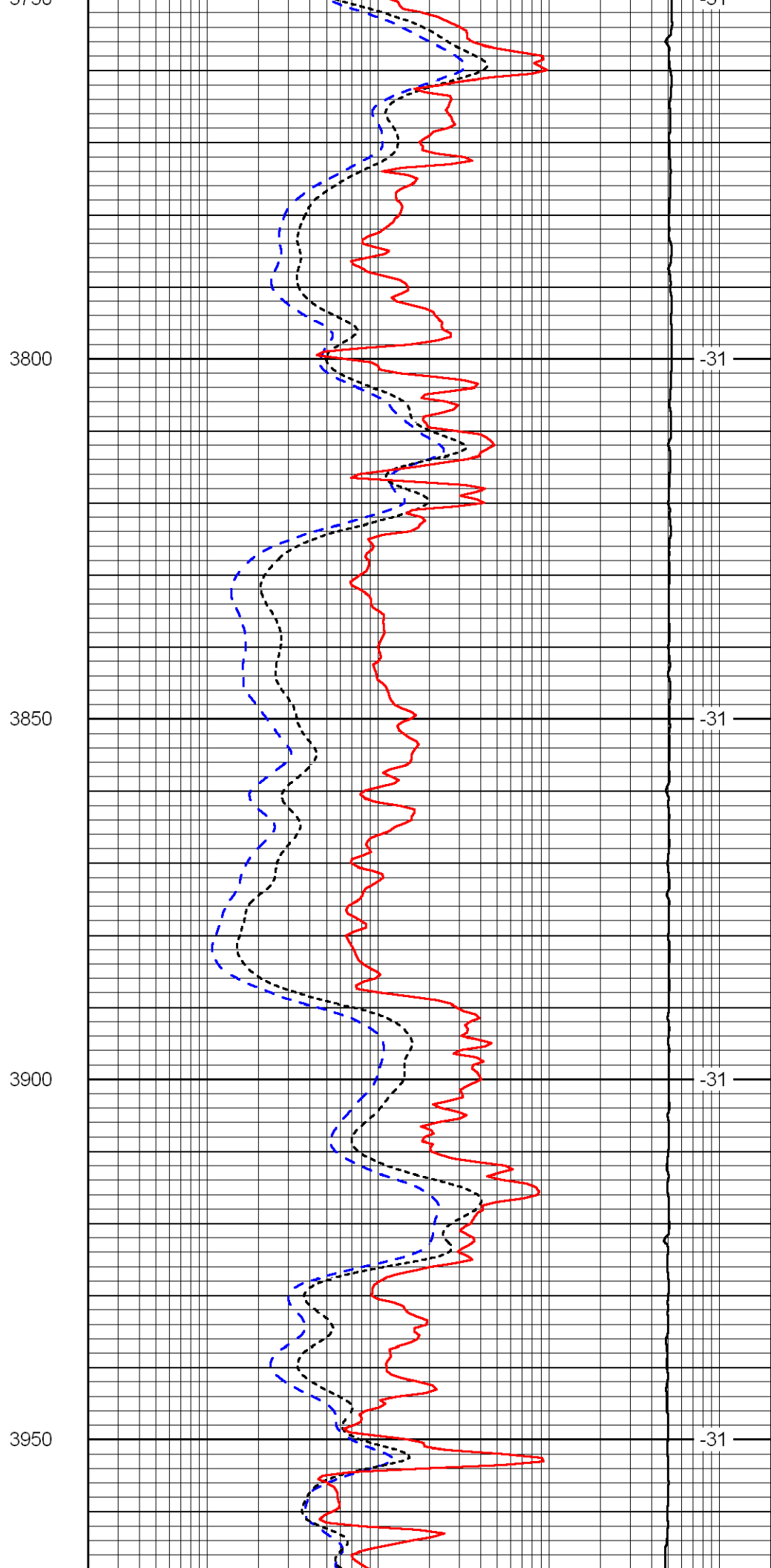
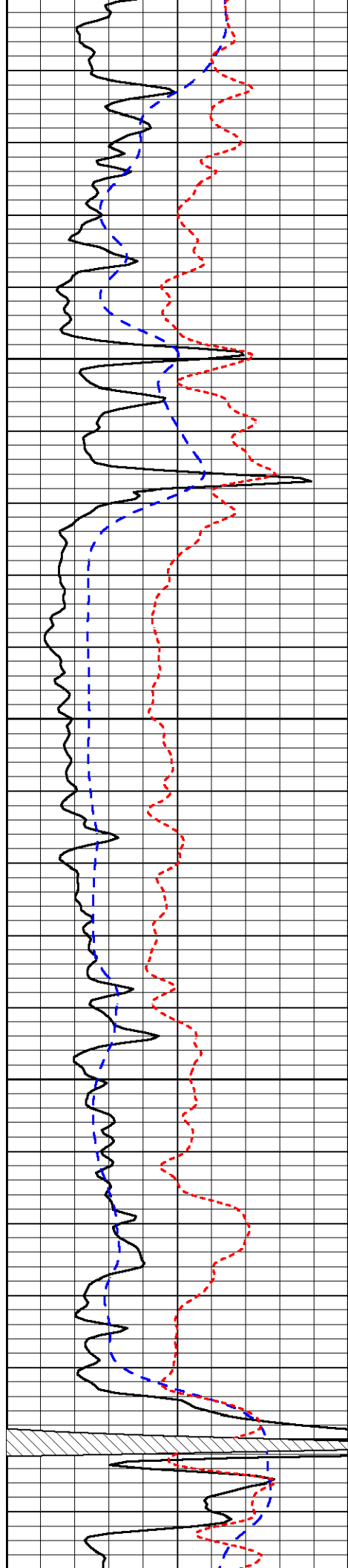
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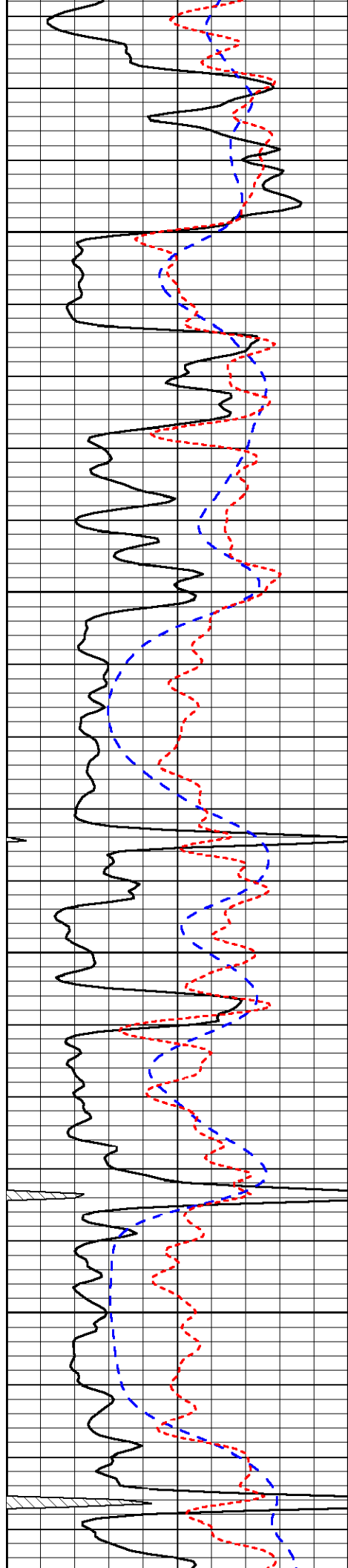


-31

-31

LSPD



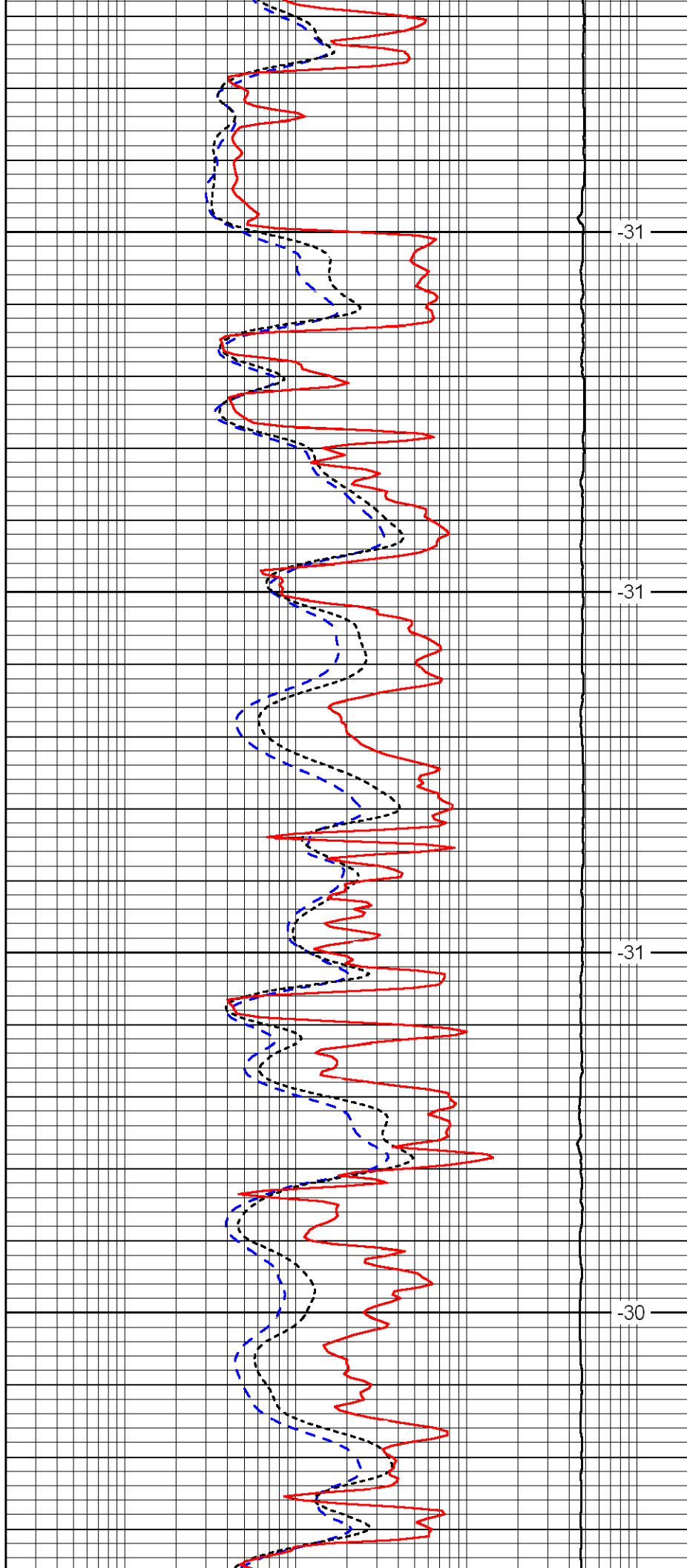


4000

4050

4100

4150

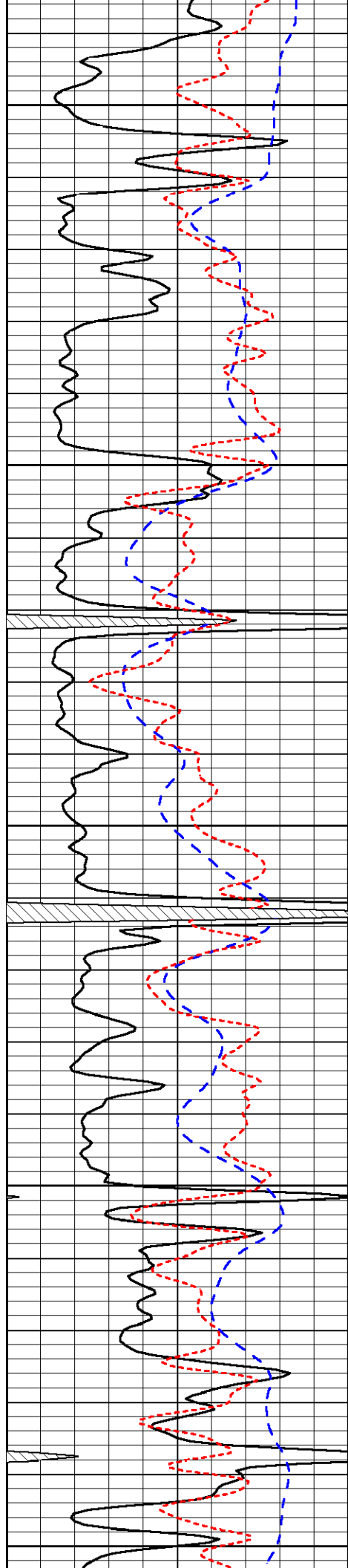


-31

-31

-31

-30



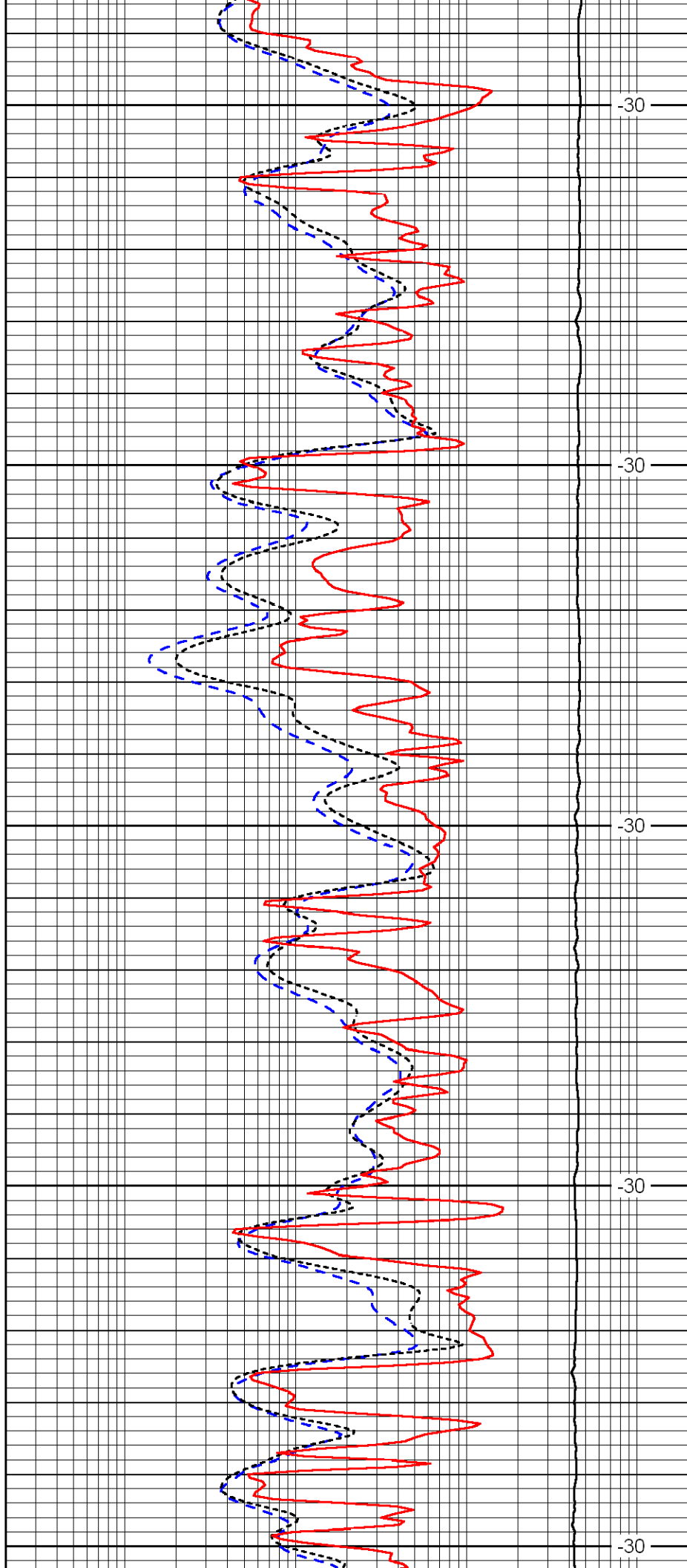
4200

4250

4300

4350

4400



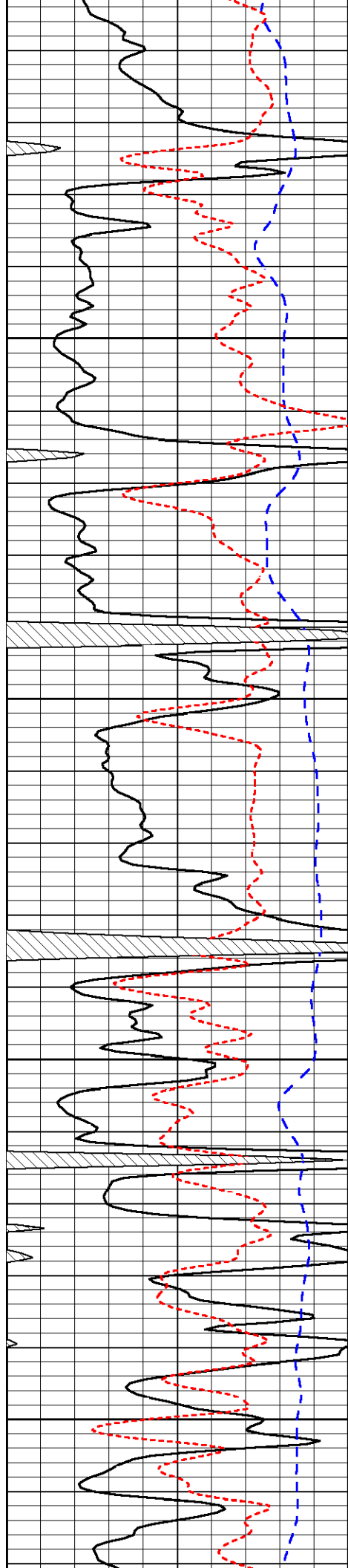
-30

-30

-30

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-30

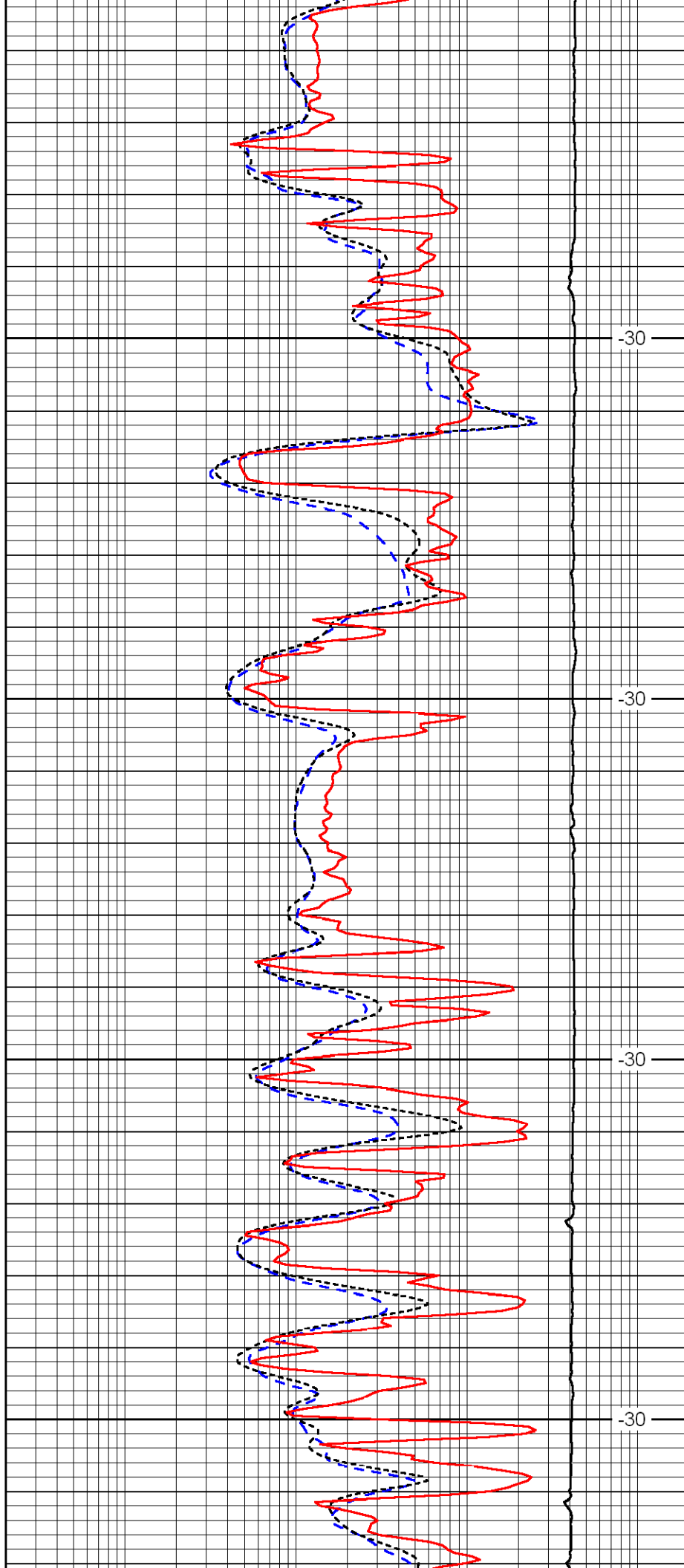


4450

4500

4550

4600

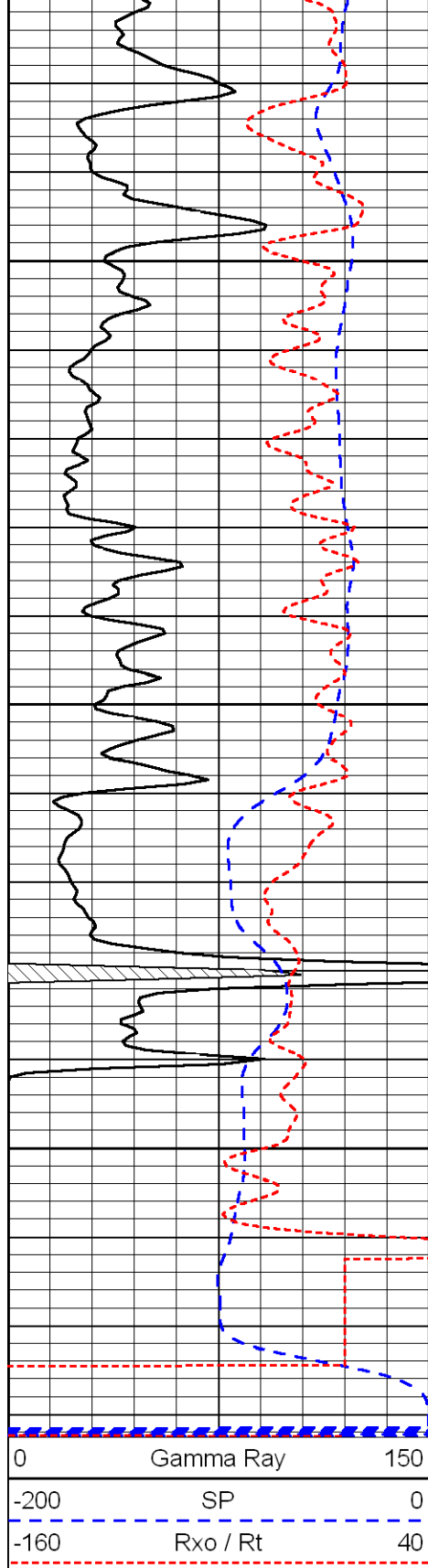


-30

-30

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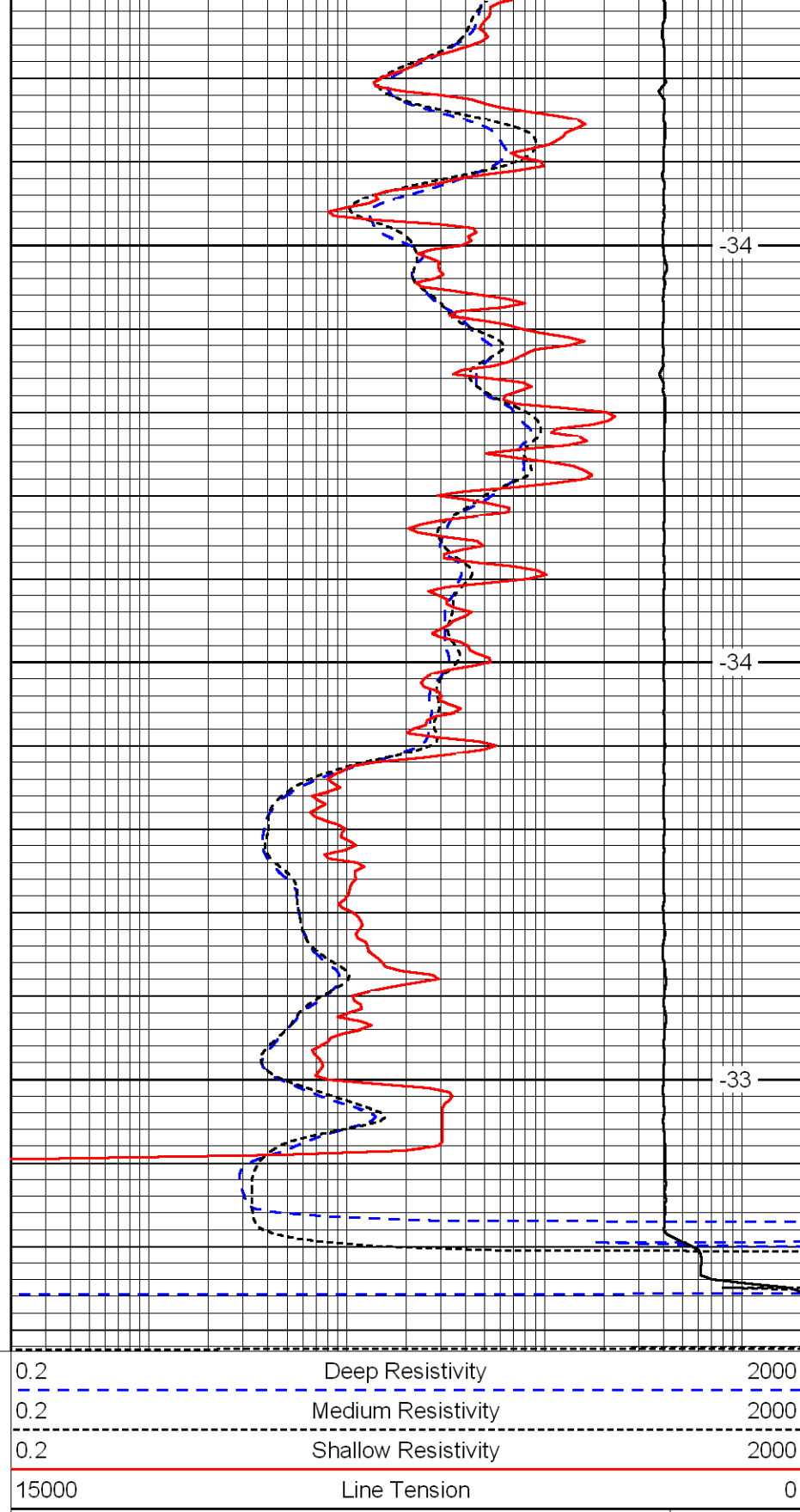


4650

4700

4750

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP        | 0   |
| -160 | Rxo / Rt  | 40  |



-34

-34

-33

|       |                     |      |
|-------|---------------------|------|
| 0.2   | Deep Resistivity    | 2000 |
| 0.2   | Medium Resistivity  | 2000 |
| 0.2   | Shallow Resistivity | 2000 |
| 15000 | Line Tension        | 0    |

LSPD