



Dual Induction Log

Pioneer Energy Services

API No.

15-109-21,341-00-00

Company **Black Tea Oil, LLC**

Well **DFK 3 # 1**

Field **Bridges**

County **Logan**

State

Kansas

Location

**SW-NE-NW-NE
673' FNL & 1769' FEL**

Other Services
CNL/CDL
MEL/BHCS

Sec: **11**

Twp: **15S**

Rge: **32W**

Elevation

Permanent Datum **Ground Level** Elevation **2716**
Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

K.B. 2725
D.F.
G.L. 2716

Date

10/18/2014

Run Number

One

Depth Driller

4440

Depth Logger

4473

Bottom Logged Interval

4472

Top Log Interval

250

Casing Driller

8.625 @ 274

Casing Logger

260

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3.000

Density / Viscosity

9.1 45

pH / Fluid Loss

10.5 6.4

Source of Sample

Flowline

Rm @ Meas. Temp

.58 @ 61

Rmf @ Meas. Temp

.44 @ 61

Rmc @ Meas. Temp

.78 @ 61

Source of Rmf / Rmc

Charts

Rm @ BHT

.29 @ 120

Operating Rig Time

5 Hours

Max Rec. Temp. F

120

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Richard Thomasson

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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

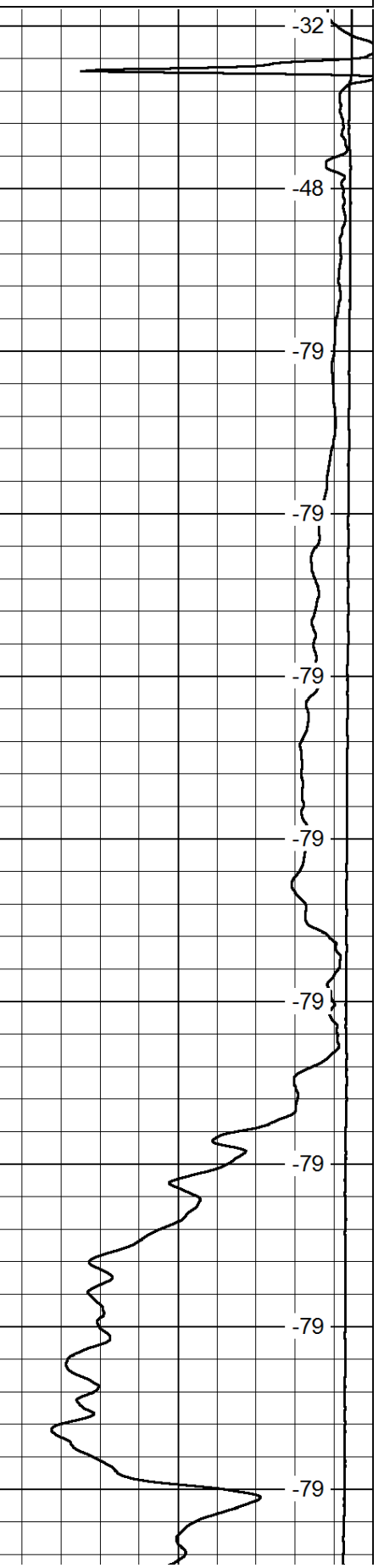
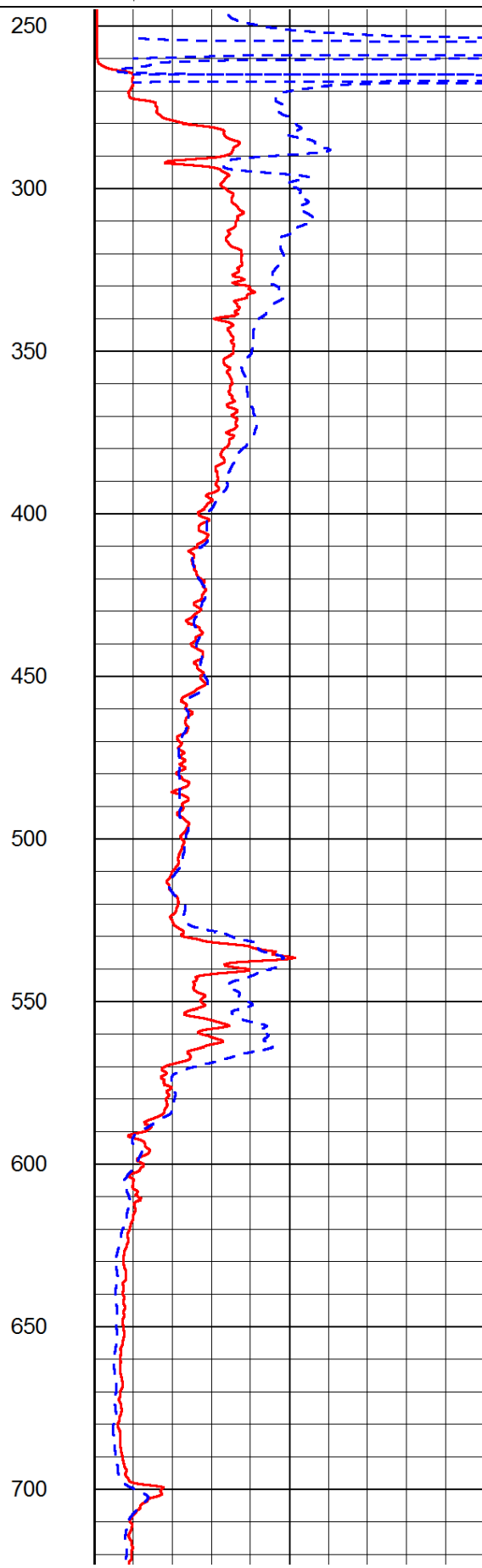
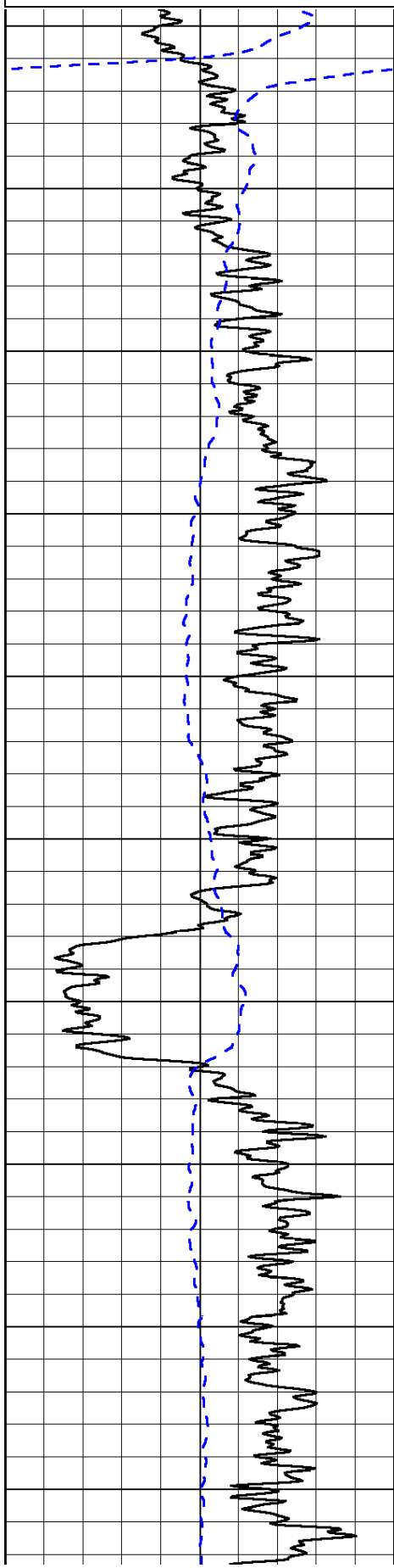
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Oakley Kansas
23 South to Gold Rd, East Into(Then South to Rig on Road)

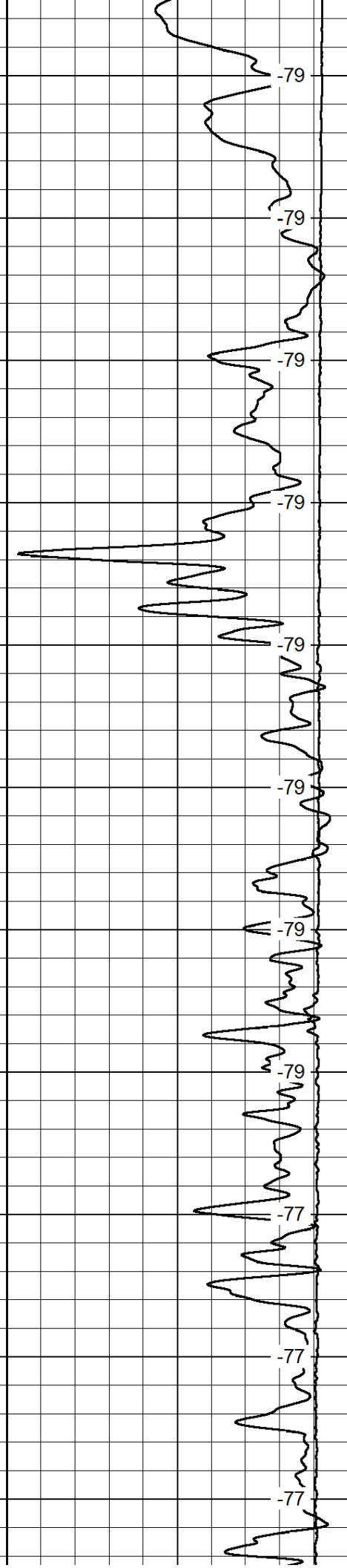
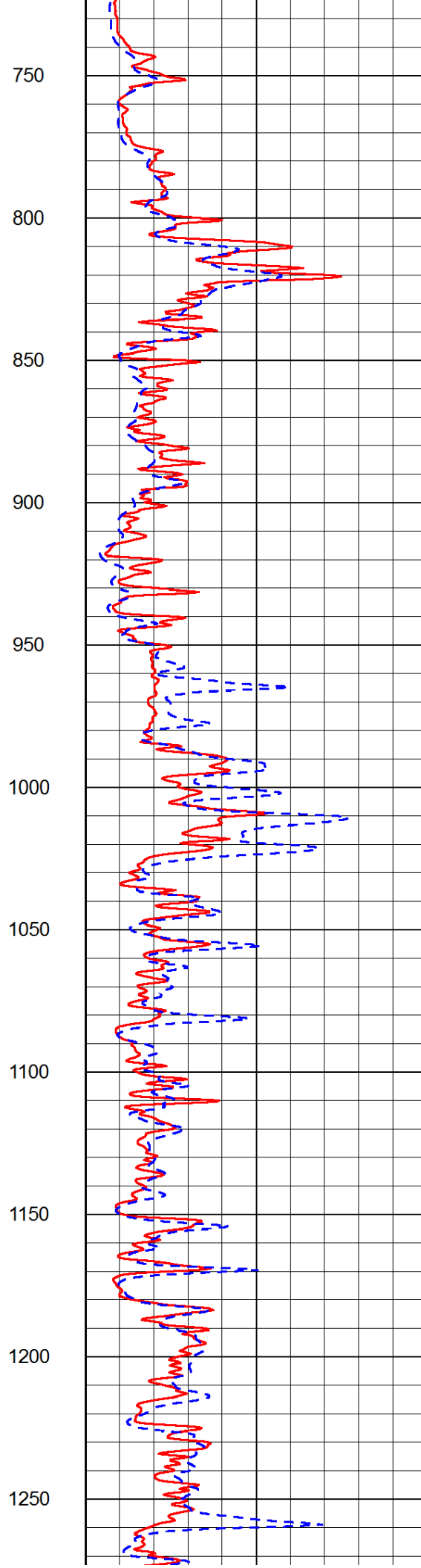
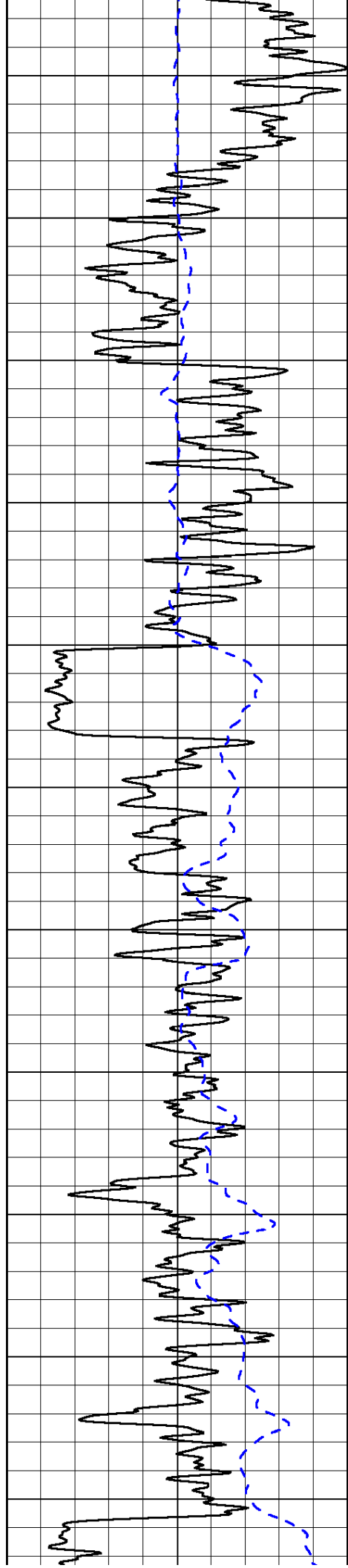
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Presentation Format: dil2in
Dataset Creation: Sat Oct 18 15:26:09 2014
Charted by: Depth in Feet scaled 1:600

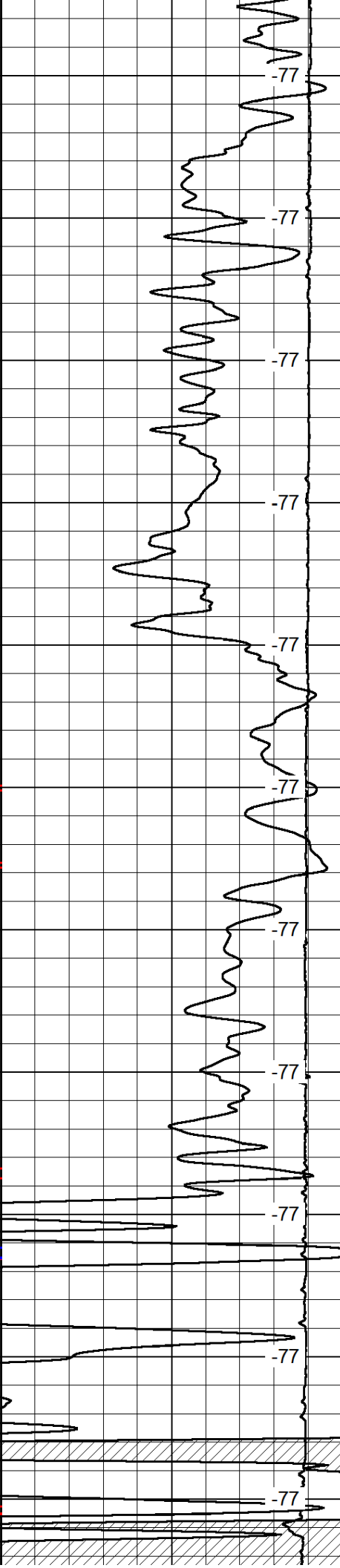
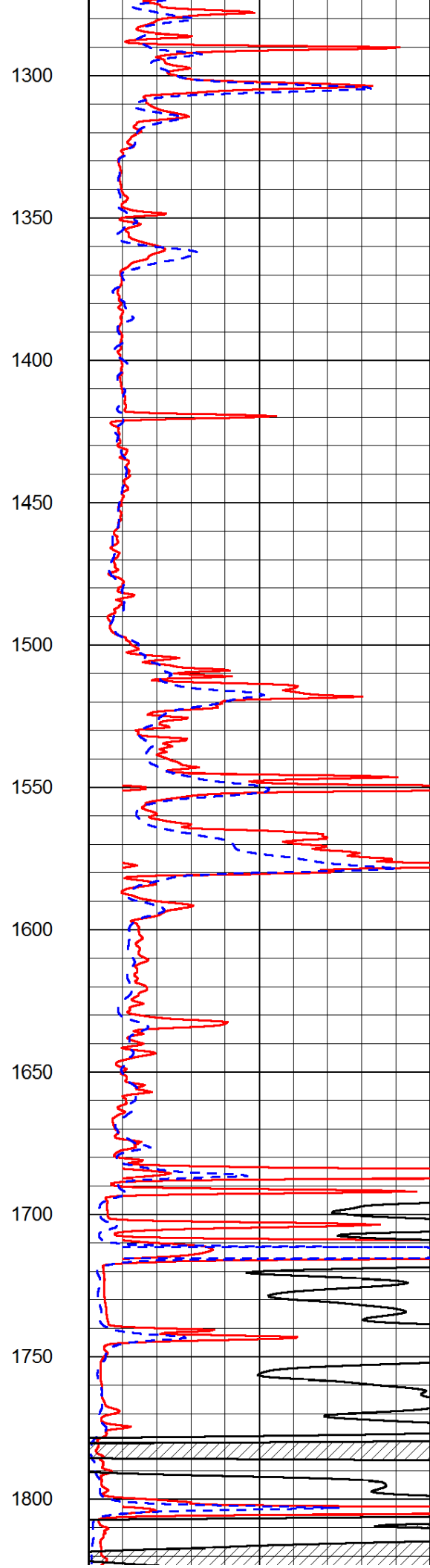
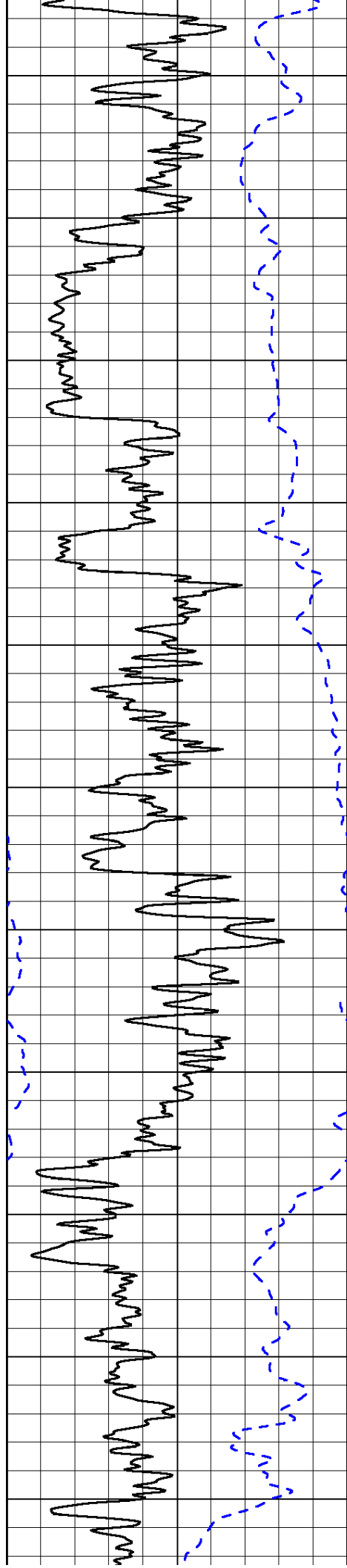
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-200	SP (mV)	0

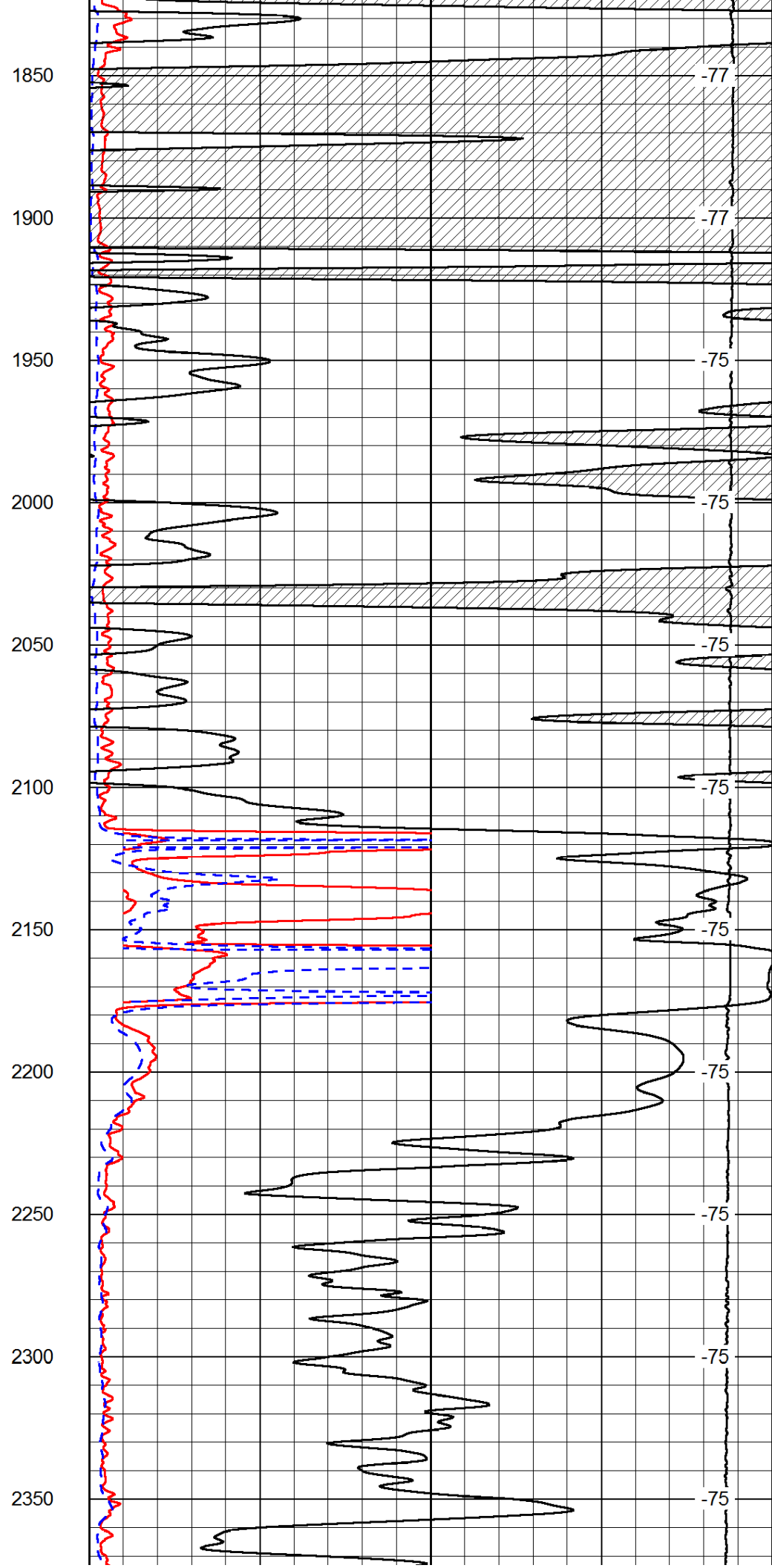
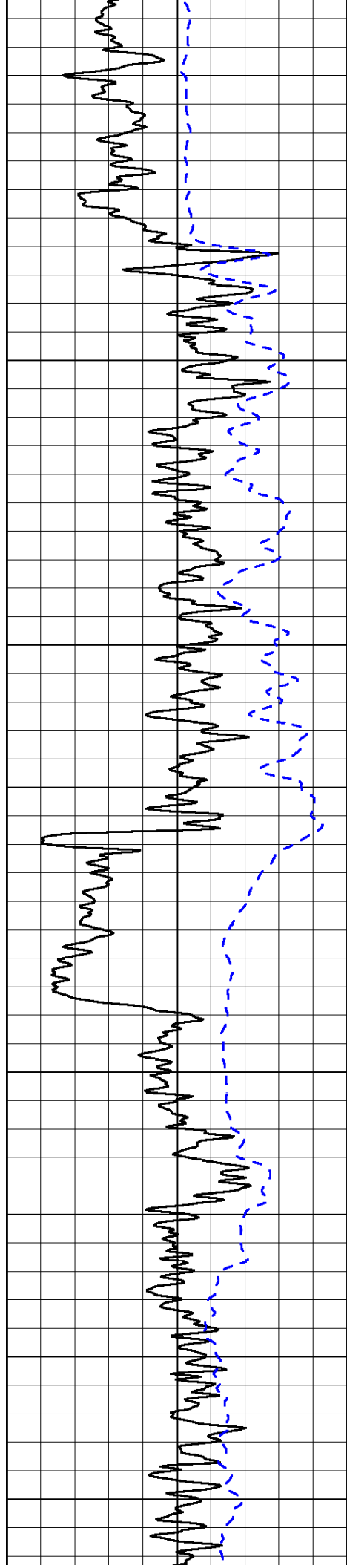
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

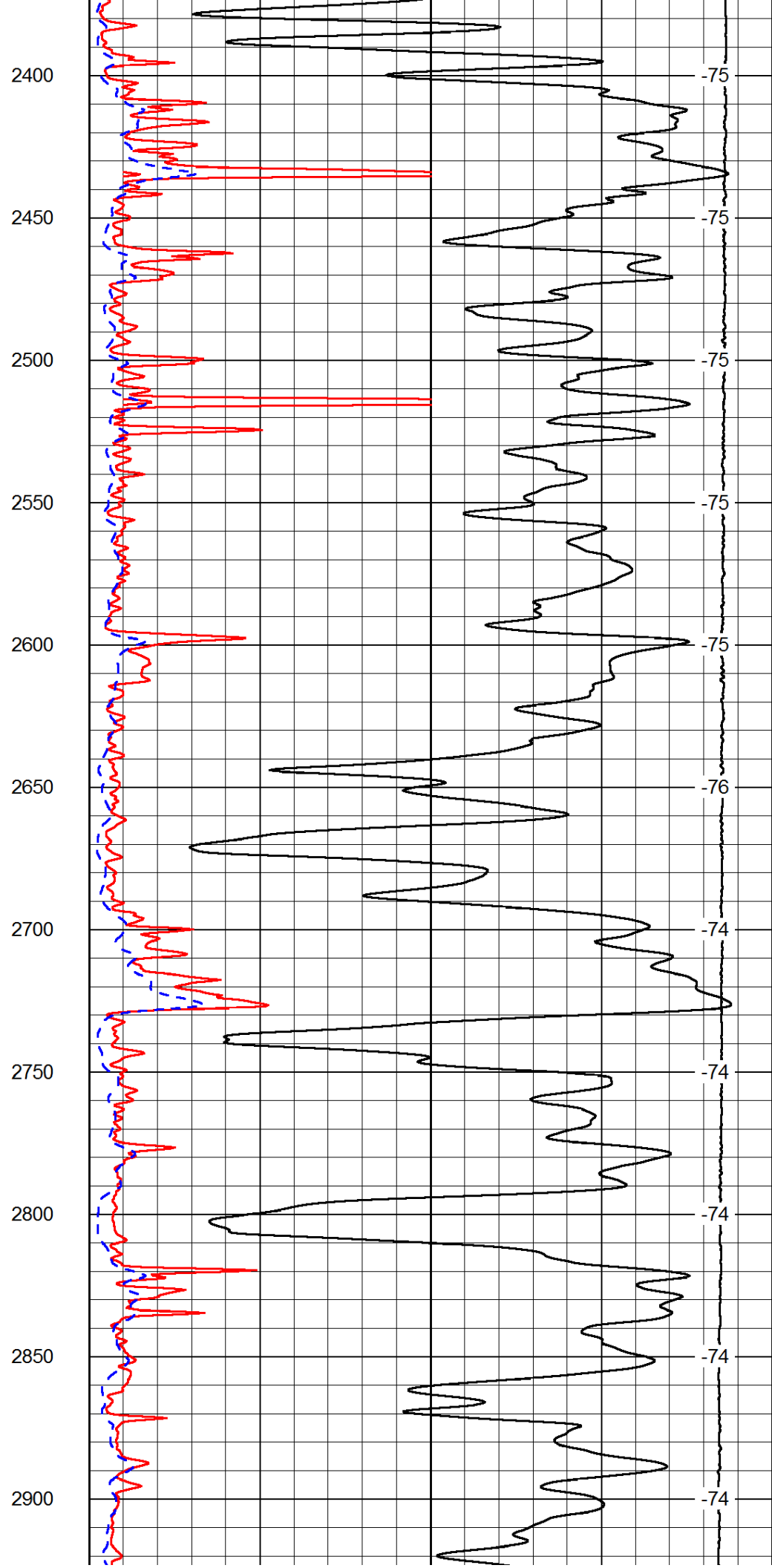
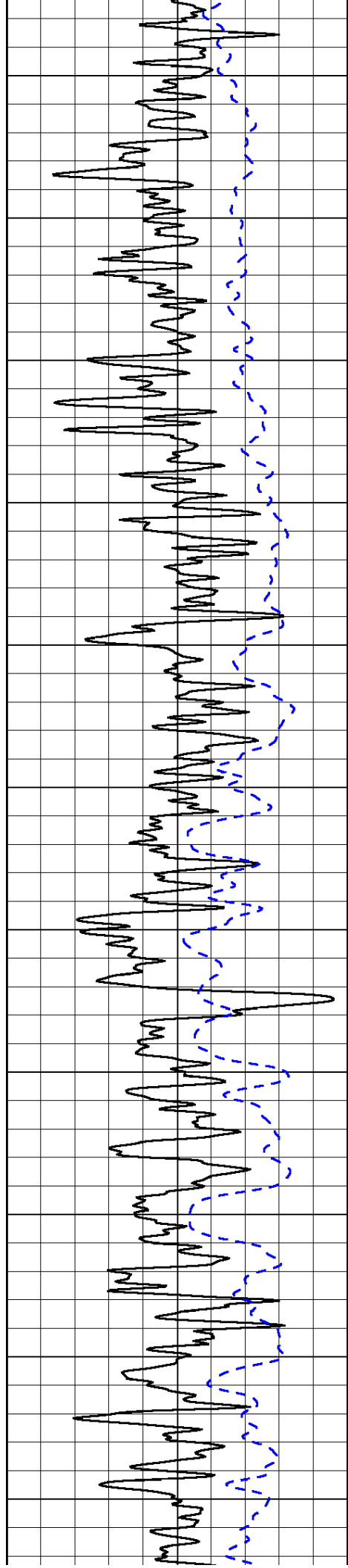
LSPD	0
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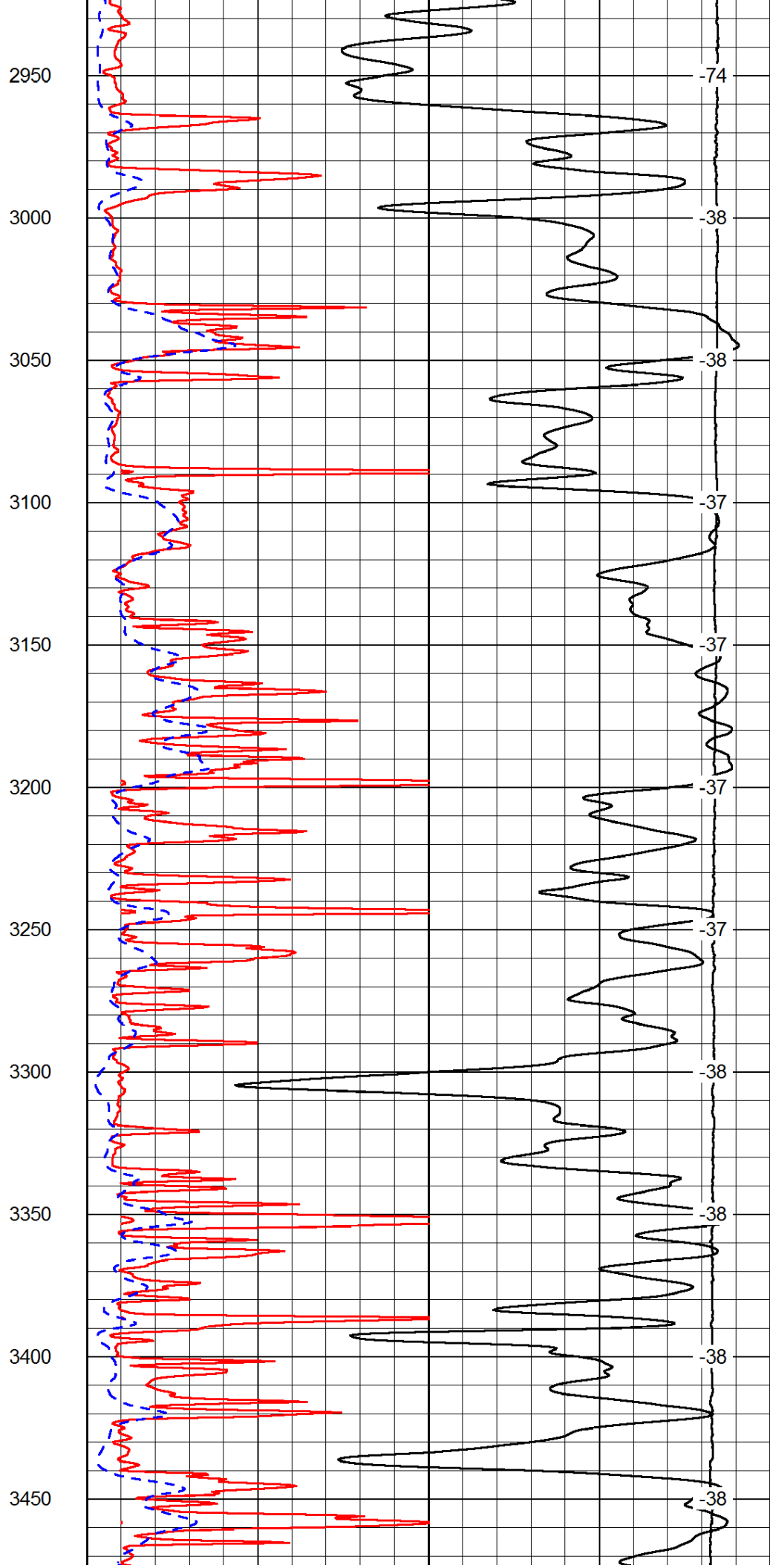
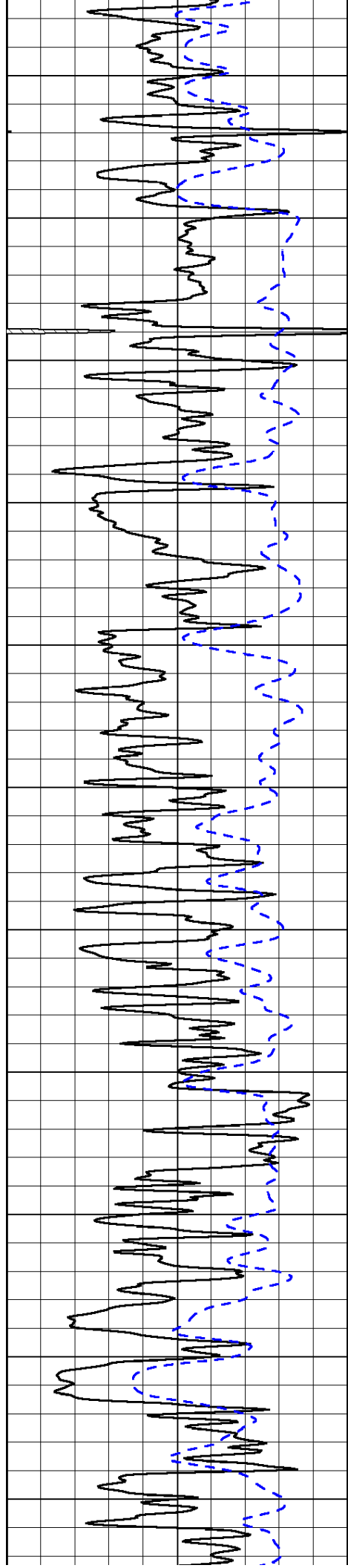


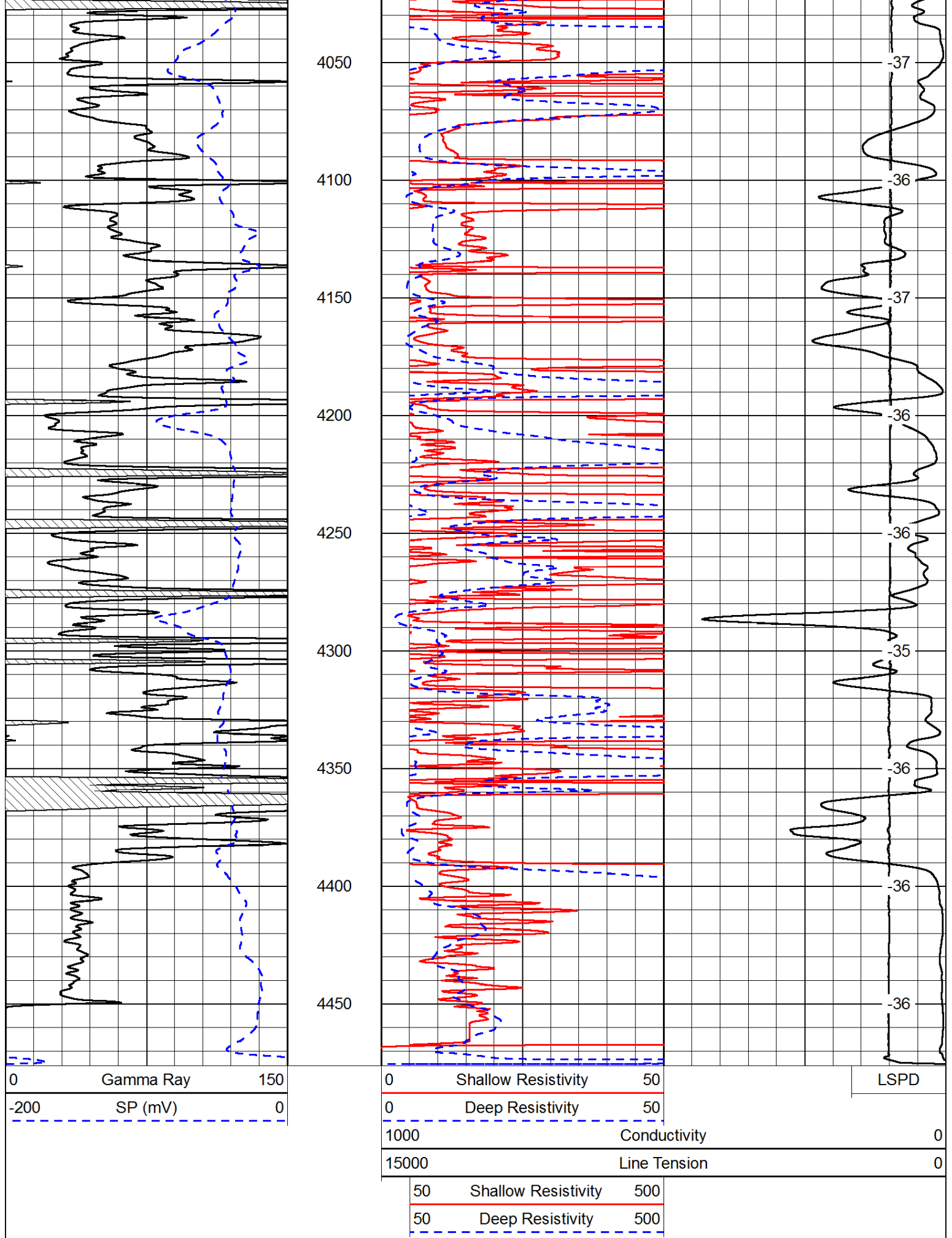










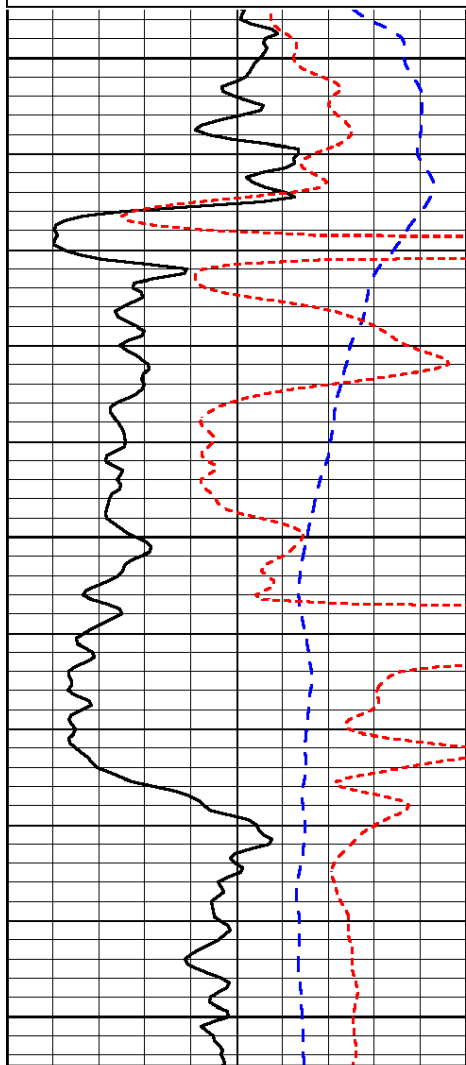


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Dataset Pathname: DIL/btstk
Presentation Format: dil
Dataset Creation: Sat Oct 18 15:26:09 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

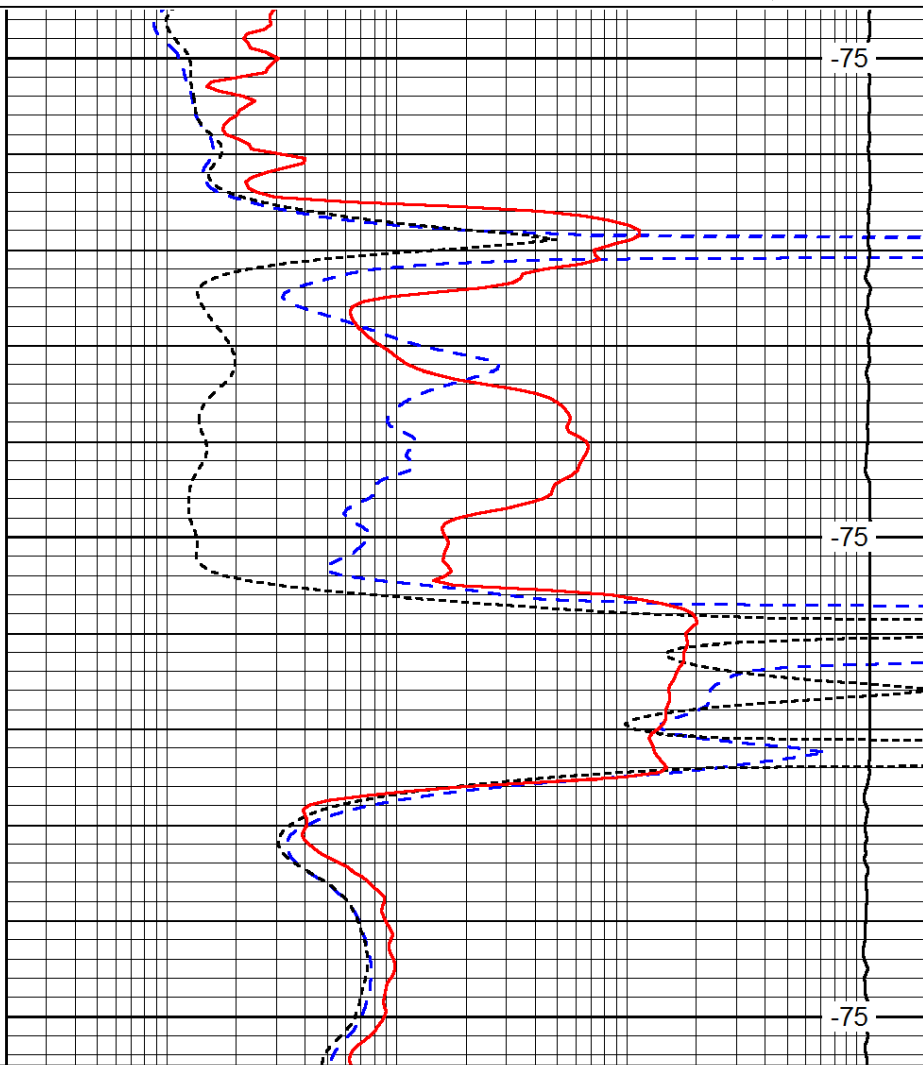
LSPD



2100

2150

2200



-75

-75

-75

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

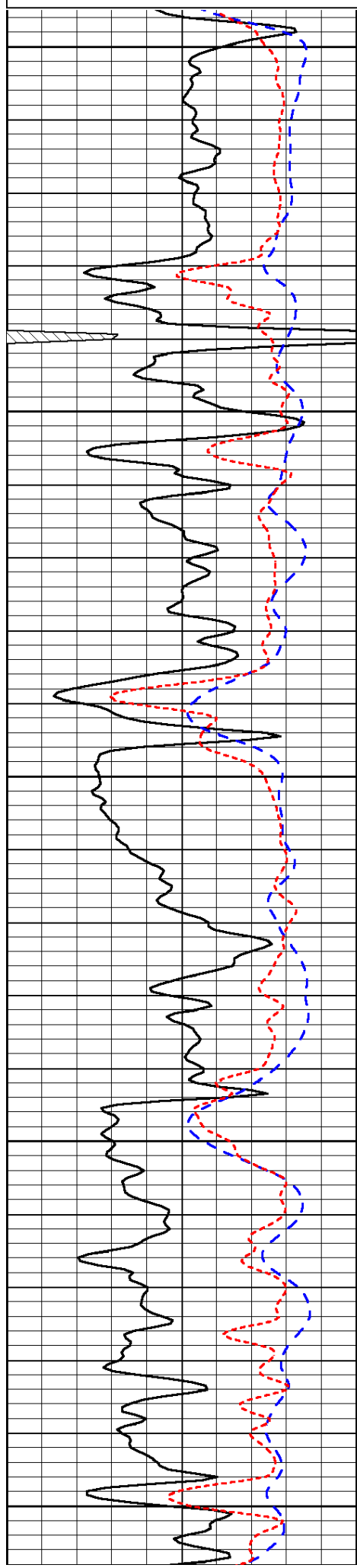
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0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

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15000	Line Tension	0



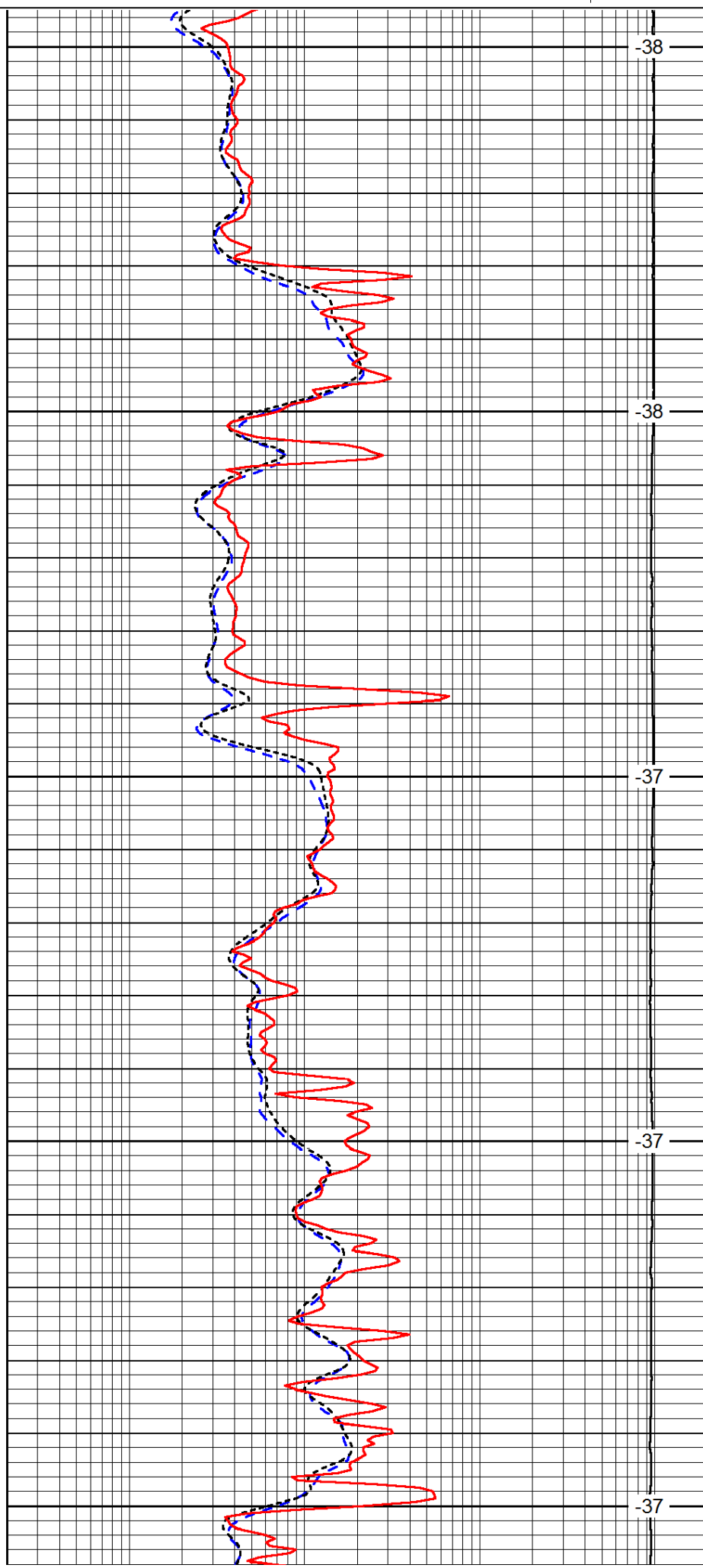
3000

3050

3100

3150

3200



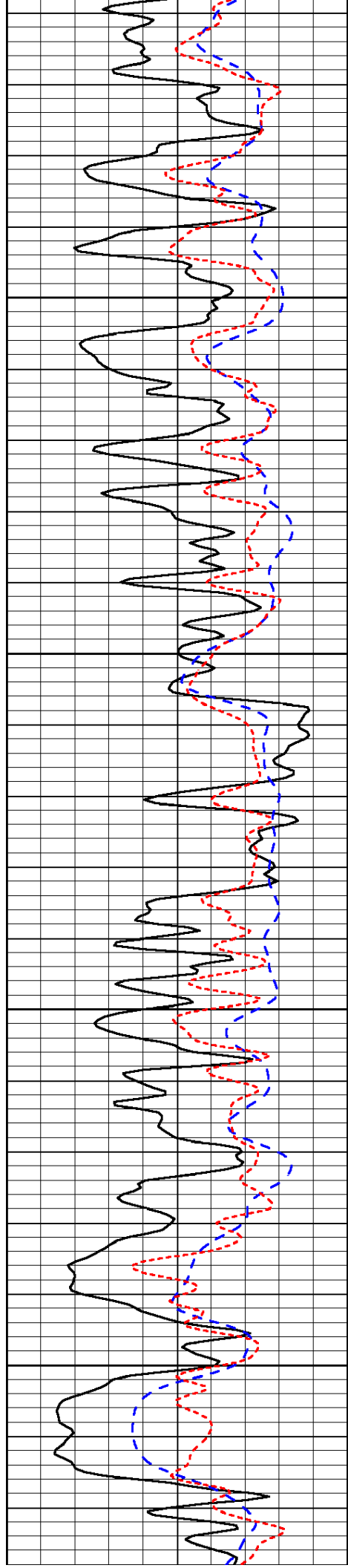
-38

-38

-37

-37

-37

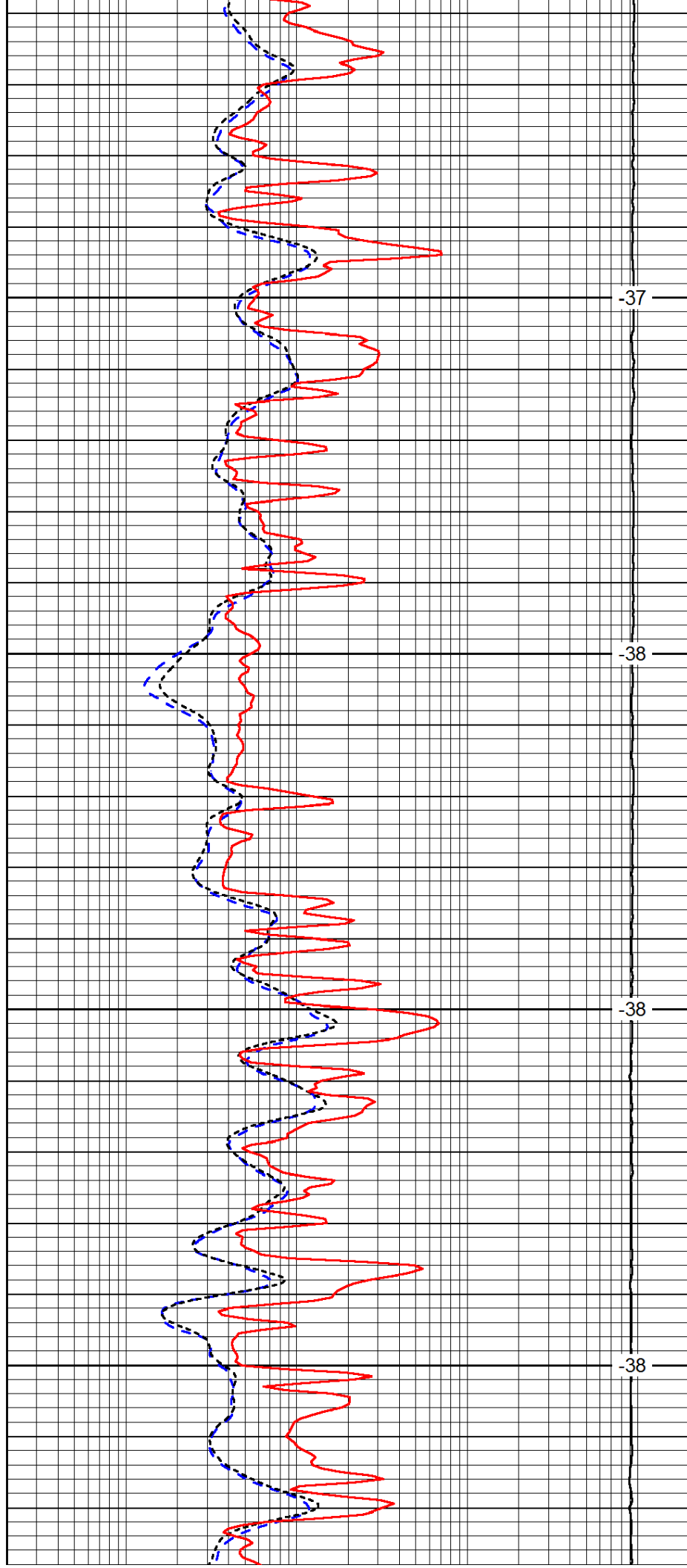


3250

3300

3350

3400

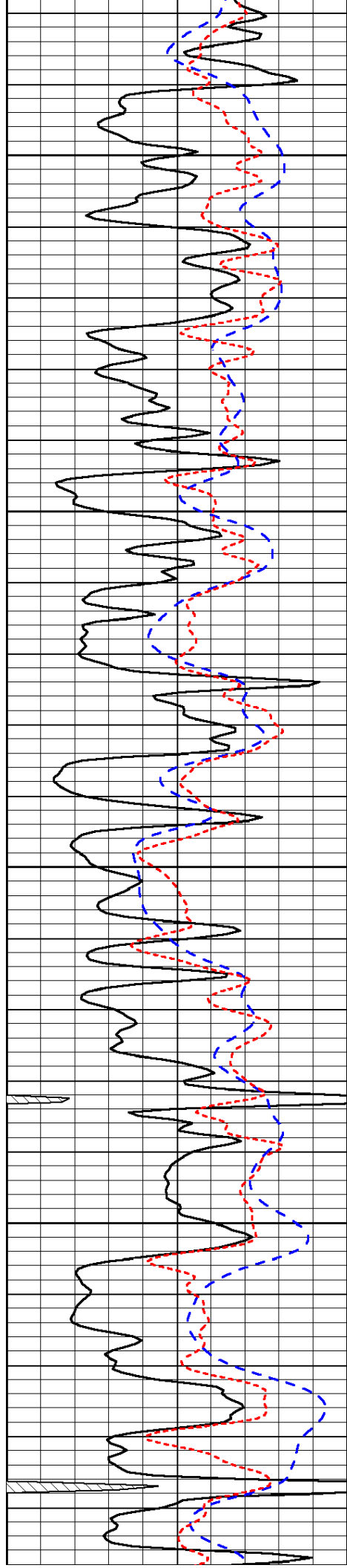


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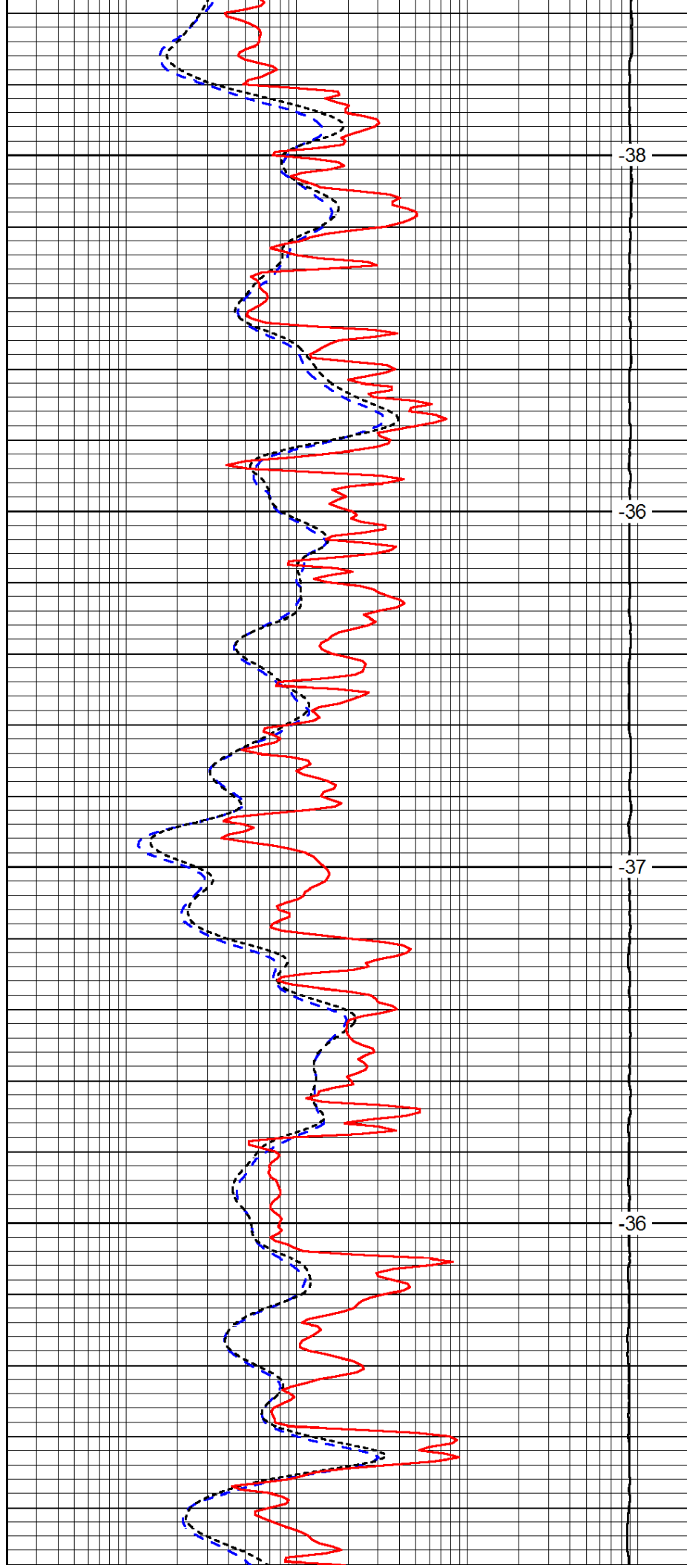


3450

3500

3550

3600

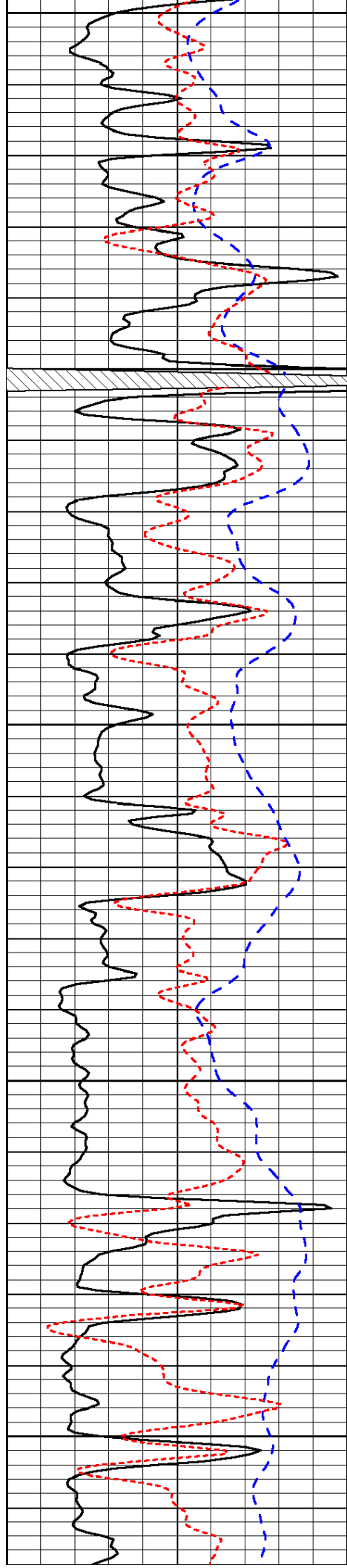


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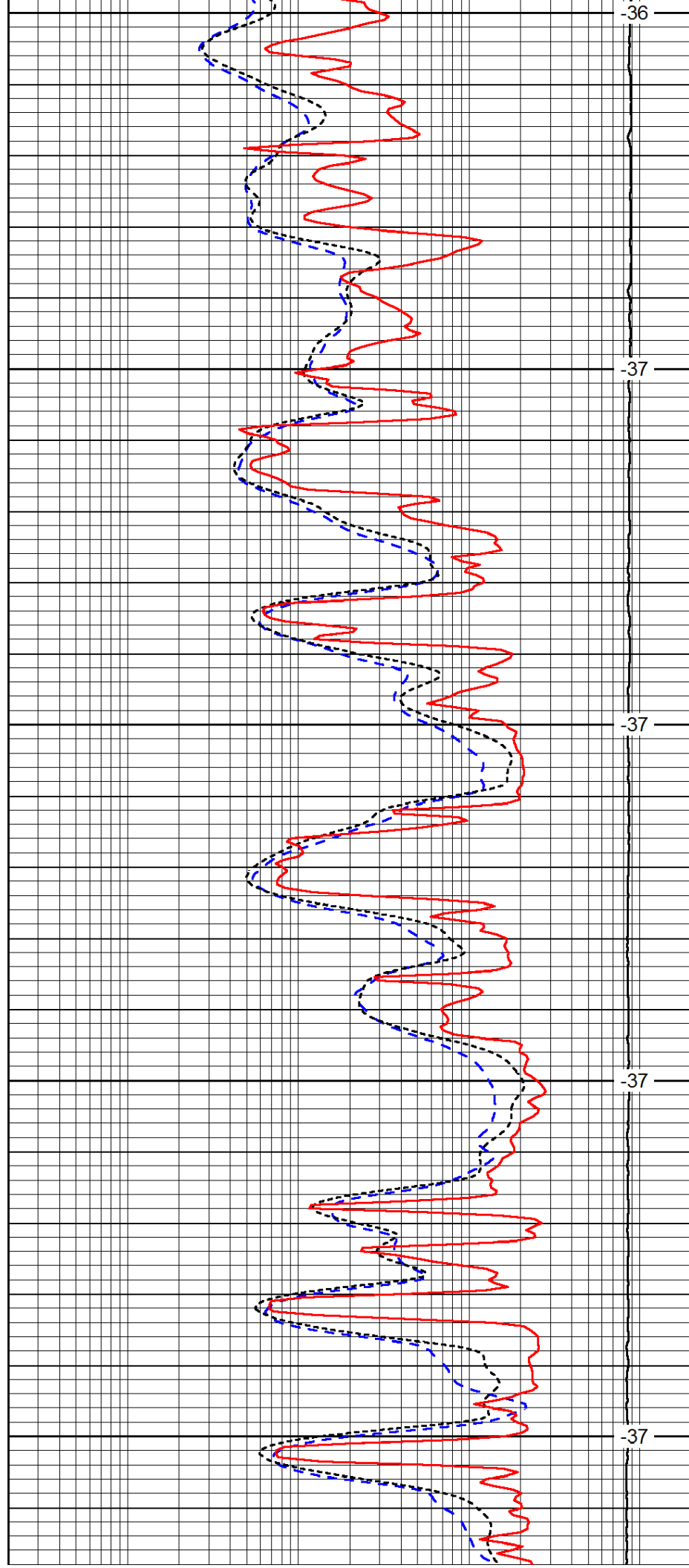
3650

3700

3750

3800

3850



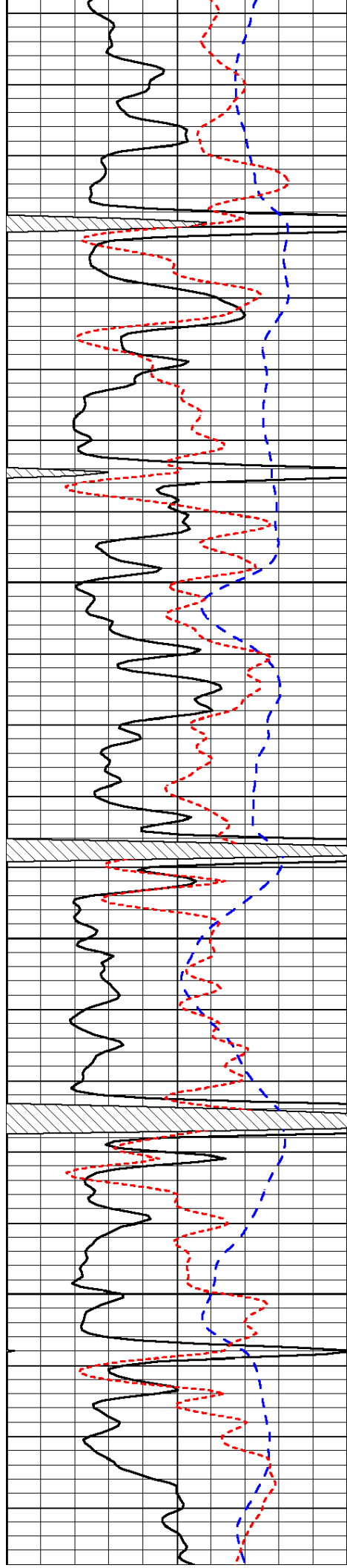
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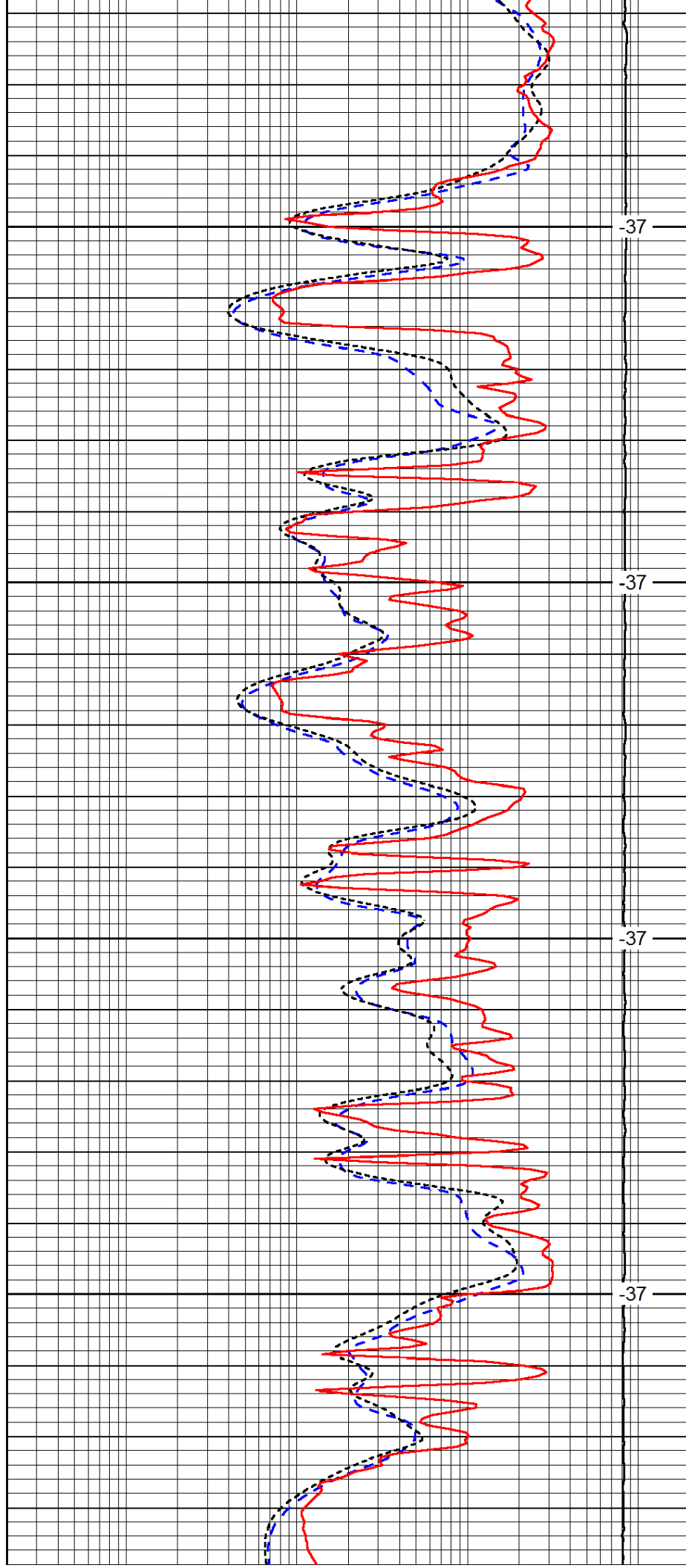


3900

3950

4000

4050

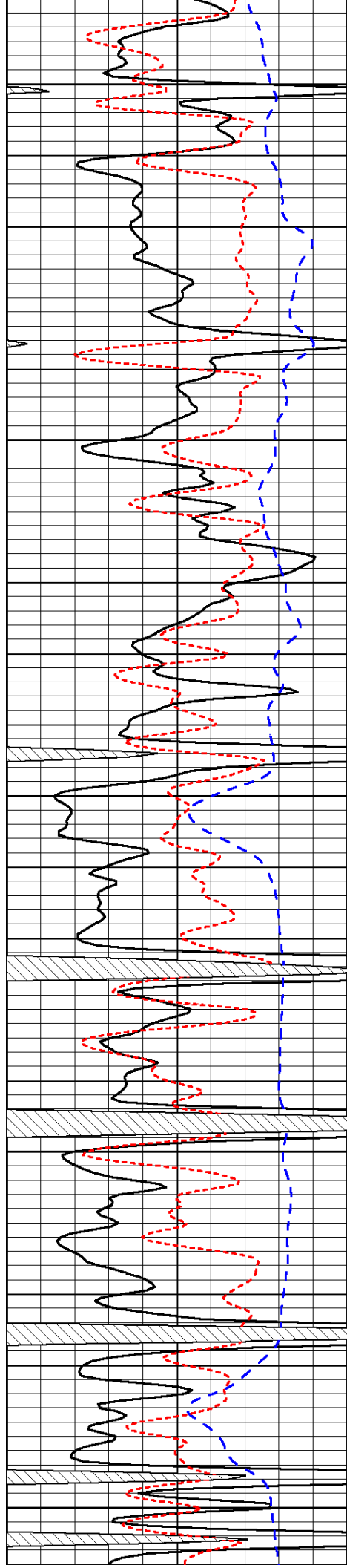


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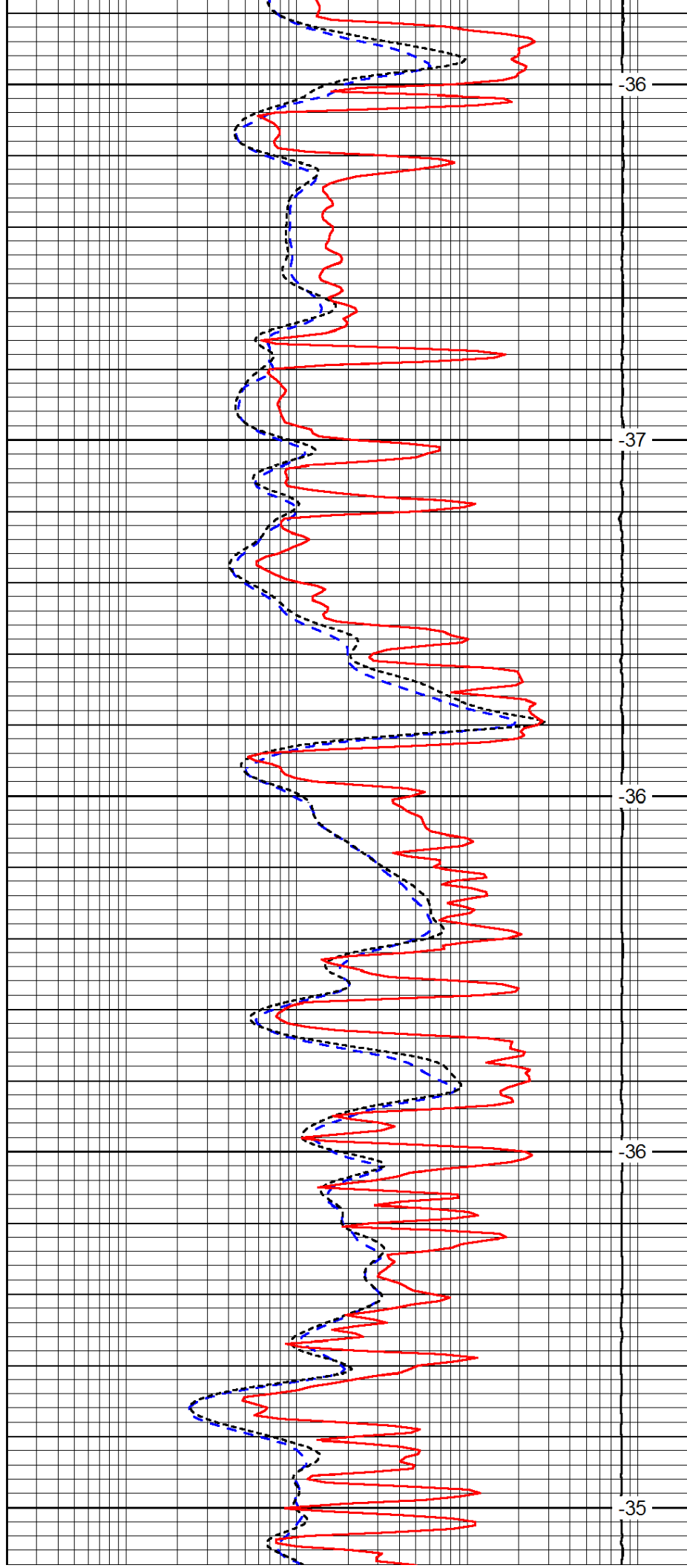
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4150

4200

4250

4300



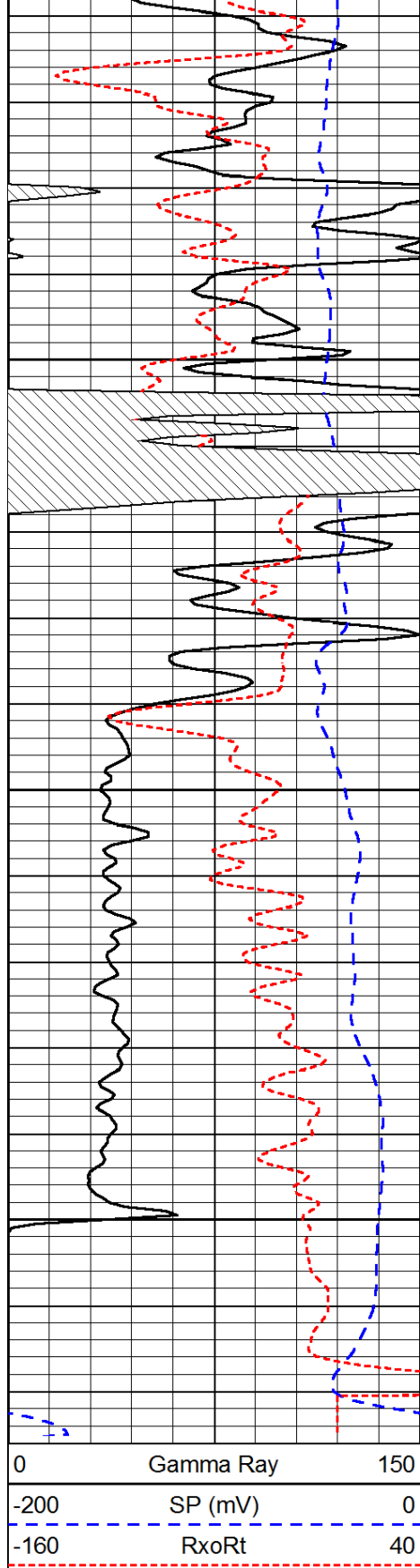
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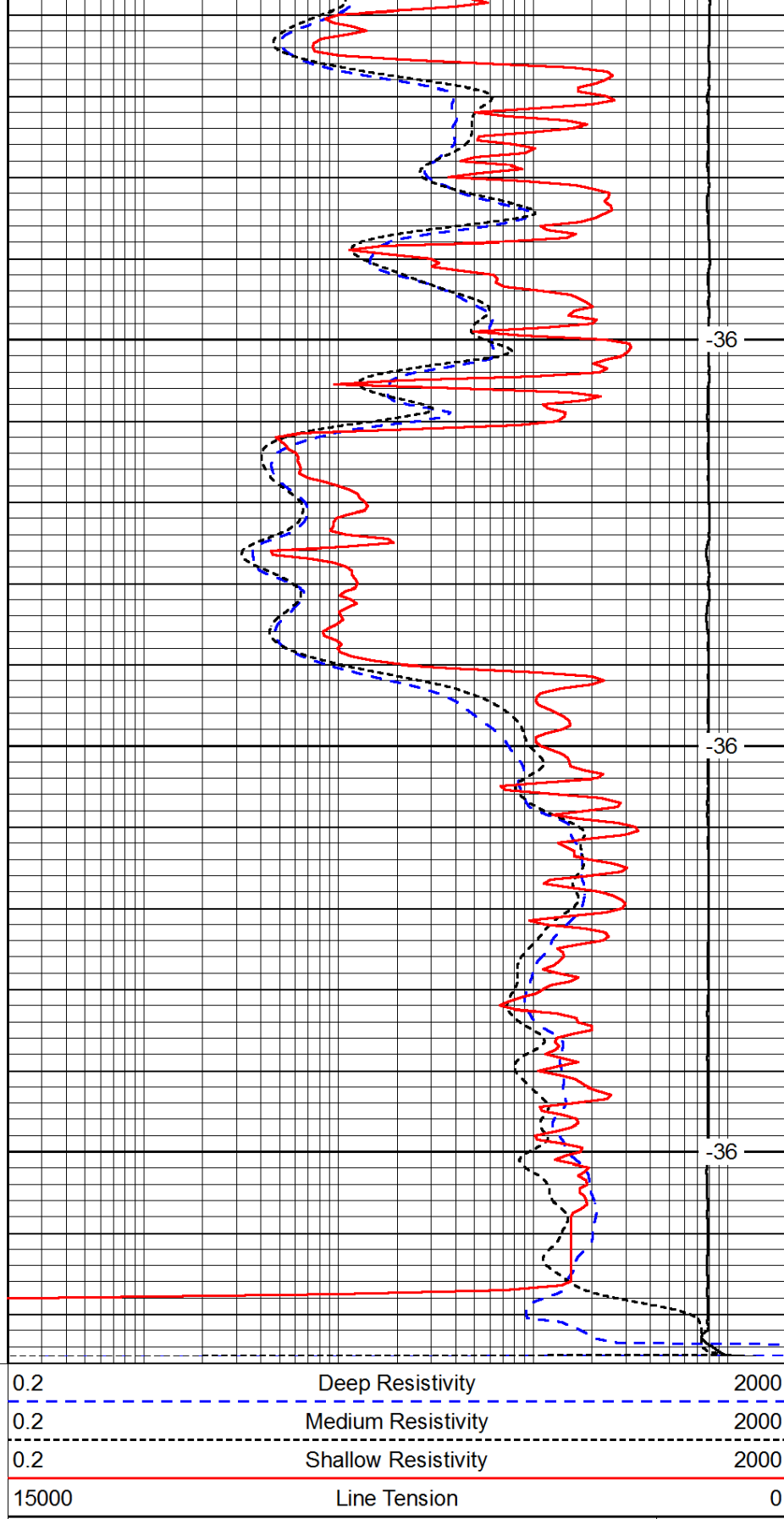
-35



4350

4400

4450



-36

-36

-36

LSPD