



Dual Induction Log

Pioneer Energy Services

API No.

15-055-22,265-00-00

Company American Warrior, Inc.

Well Neeley #8 Twin

Field Congdon

County Finney State

Kansas

Location 2310' FNL & 1839' FEL

Sec: 33 Twp: 23S Rge: 32W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 2834

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

Drilling Measured From Kelly Bushing

Elevation

K.B. 2845

D.F. 2834

Date

1/6/2014

Run Number

One

Depth Driller

4850

Depth Logger

4850

Bottom Logged Interval

4849

Top Log Interval

1700

Casing Driller

8.625 @ 1710

Casing Logger

1702

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3,200

Density / Viscosity

9.4 50

pH / Fluid Loss

10.0 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

.34 @ 51

Rmf @ Meas. Temp

.26 @ 51

Rmc @ Meas. Temp

346 @ 51

Source of Rmf / Rmc

Charts

Rm @ BHT

.14 @ 125

Operating Rig Time

5 Hours

Max Rec. Temp. F

125

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Kevin Timson

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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

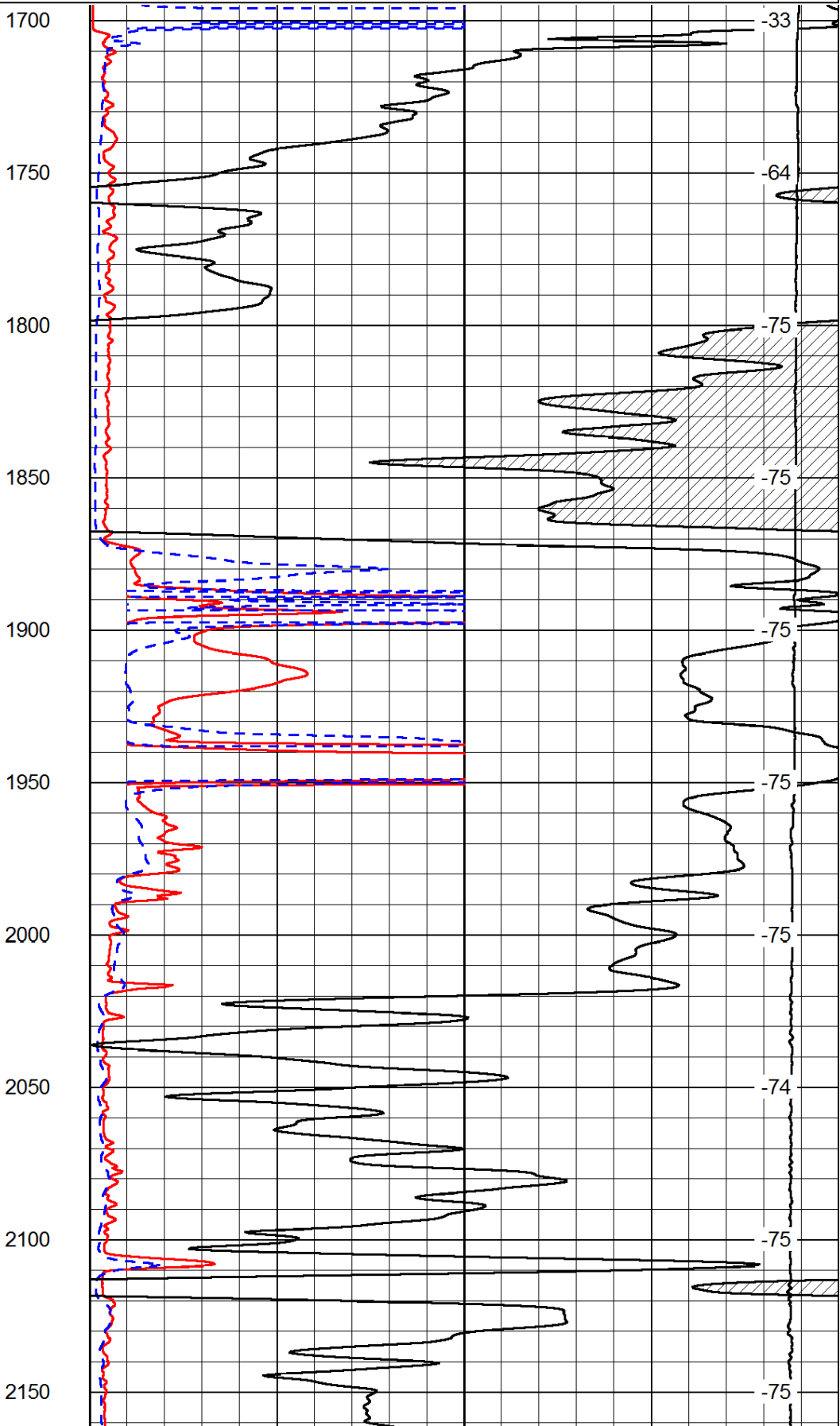
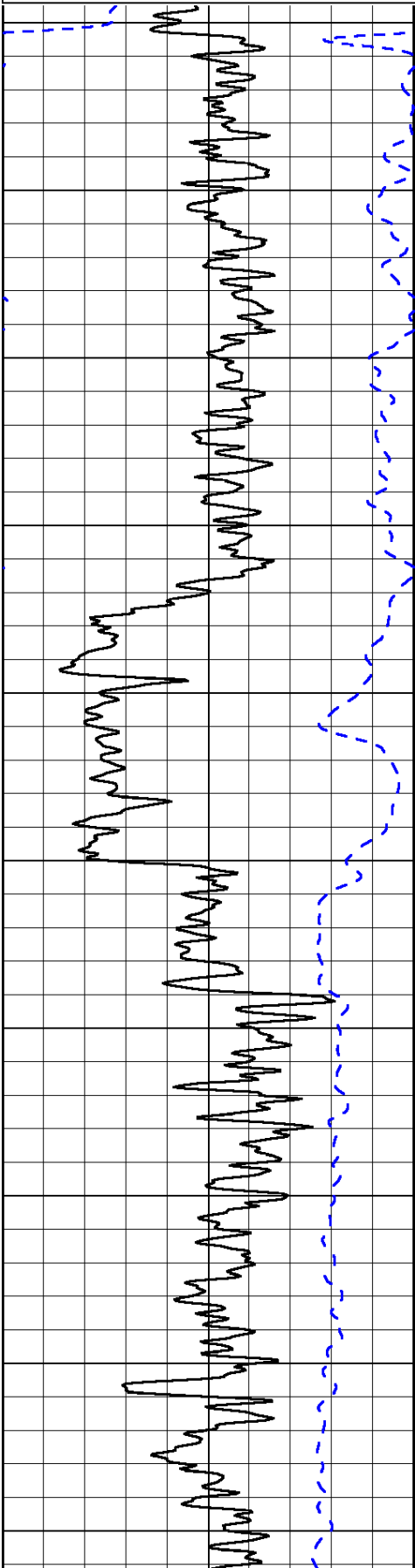
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Garden City Kansas
East on Mary Street to Jennie Barker Rd, 1 1/2 Miles North,
West Into at Yellow Gate

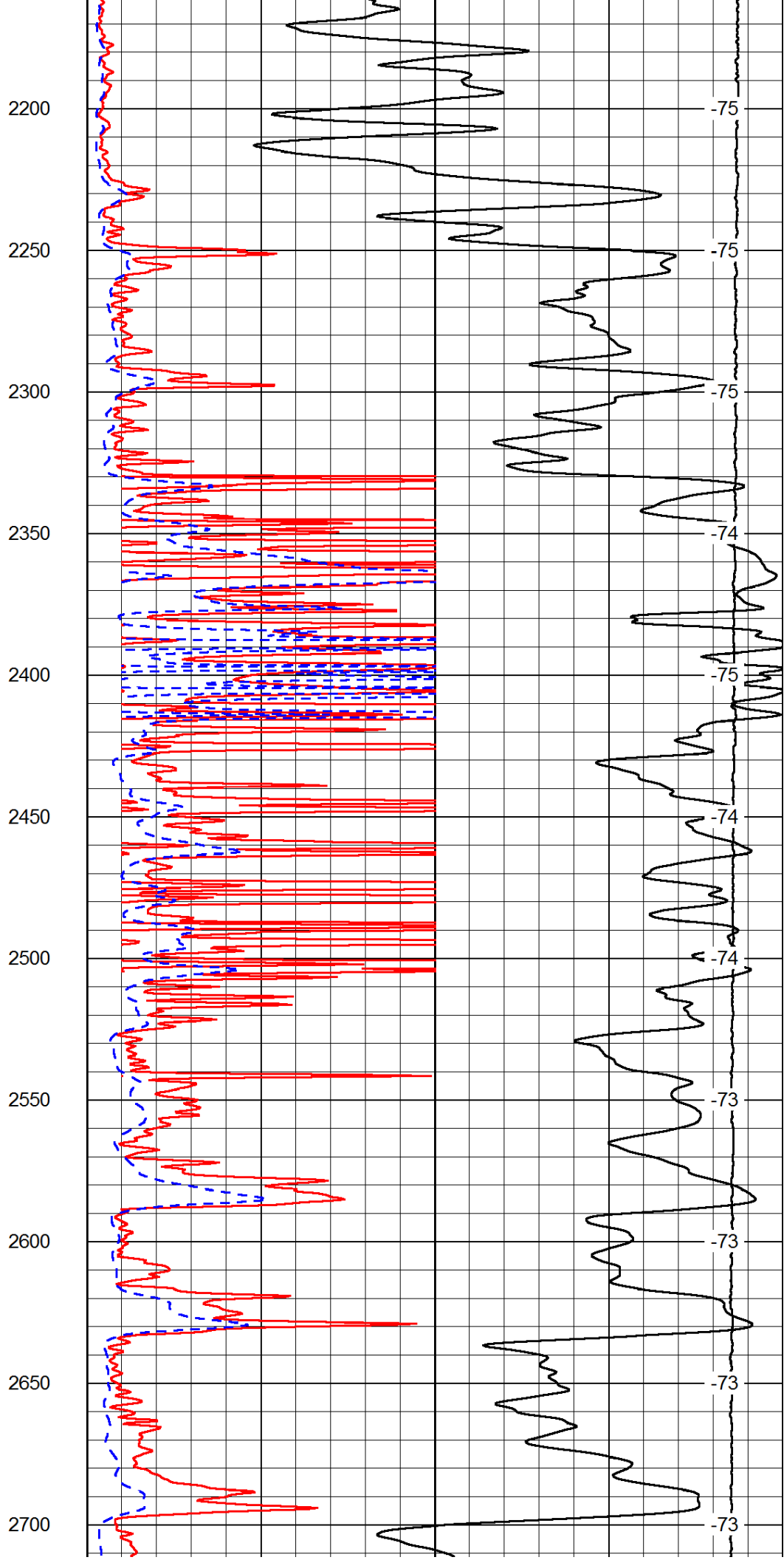
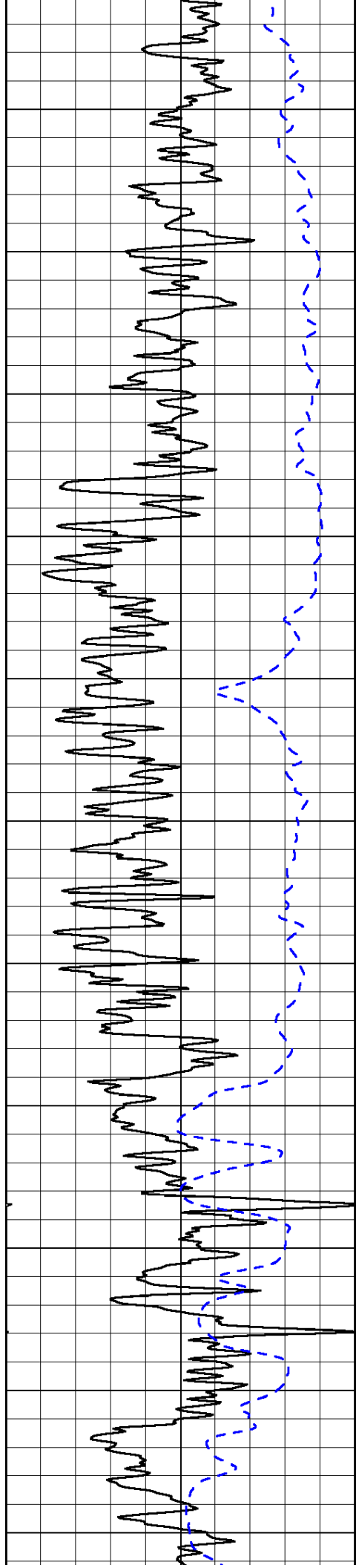
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Presentation Format: dil2in
Dataset Creation: Mon Jan 06 19:47:29 2014
Charted by: Depth in Feet scaled 1:600

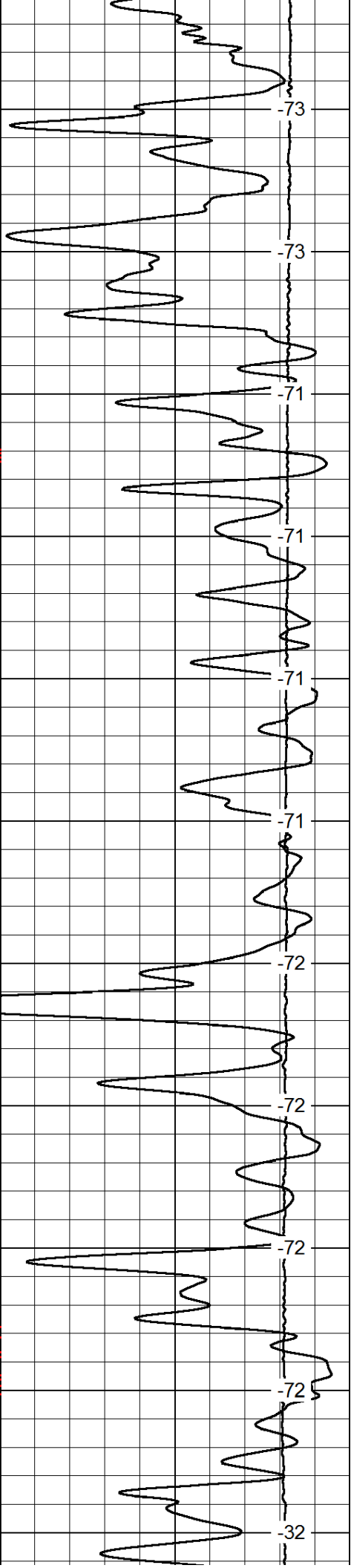
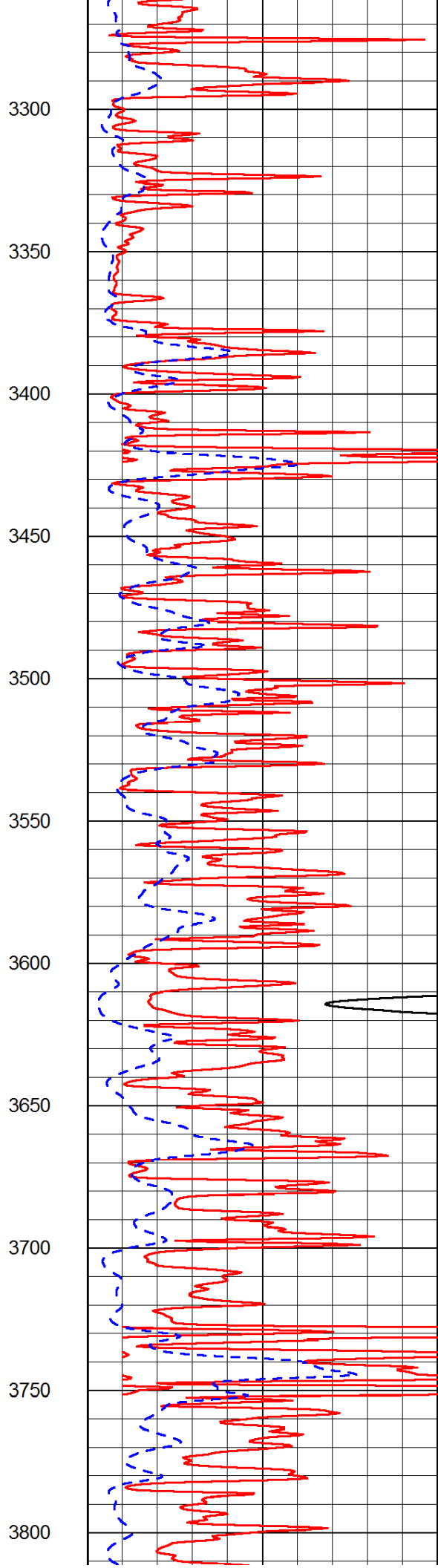
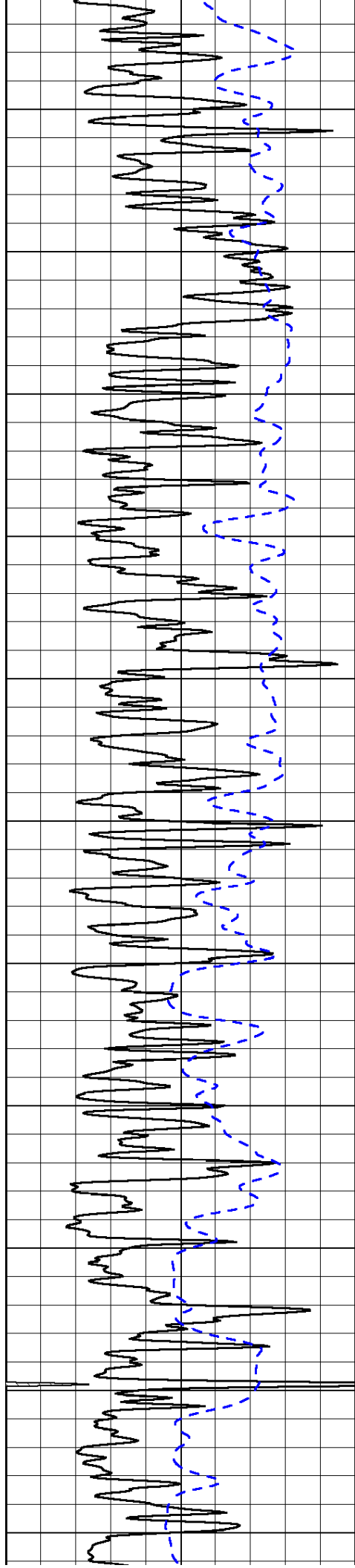
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-200	SP (mV)	0

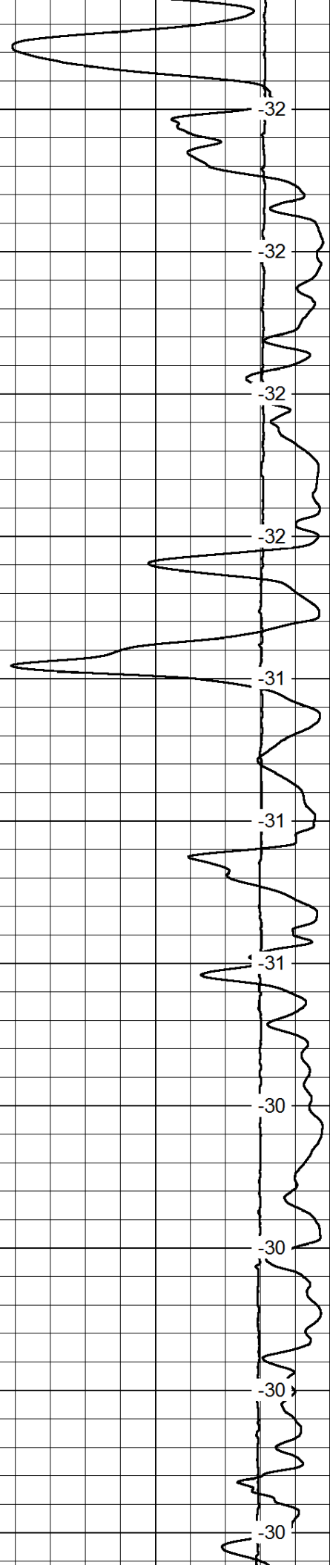
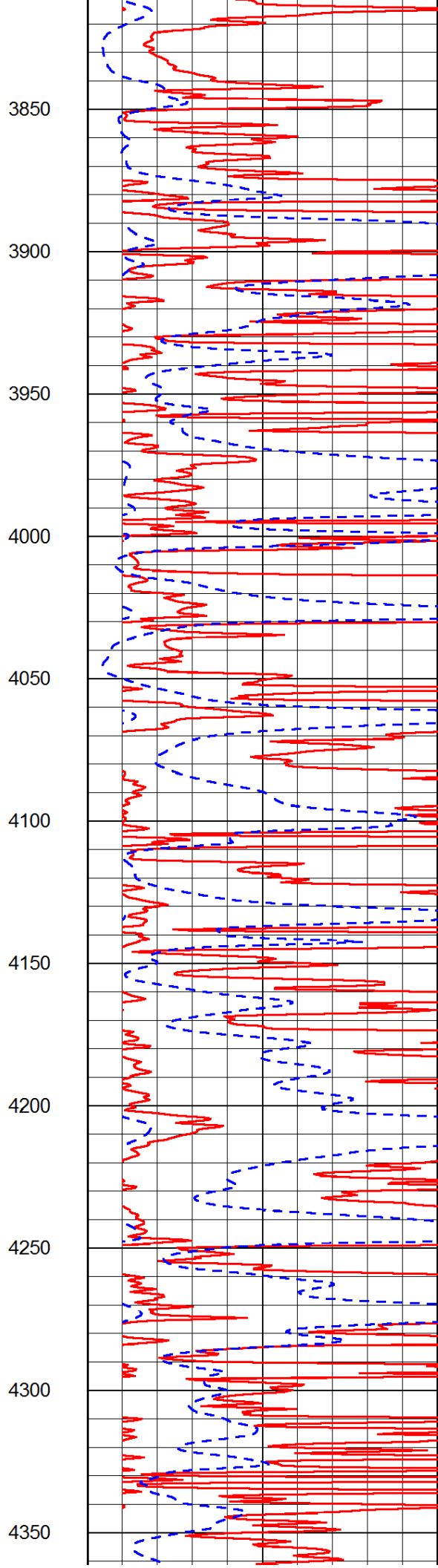
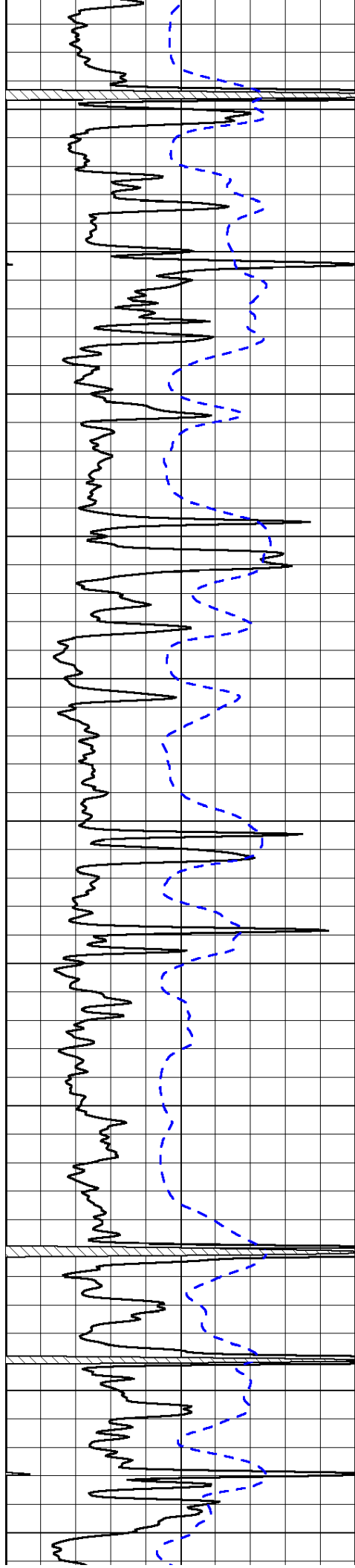
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

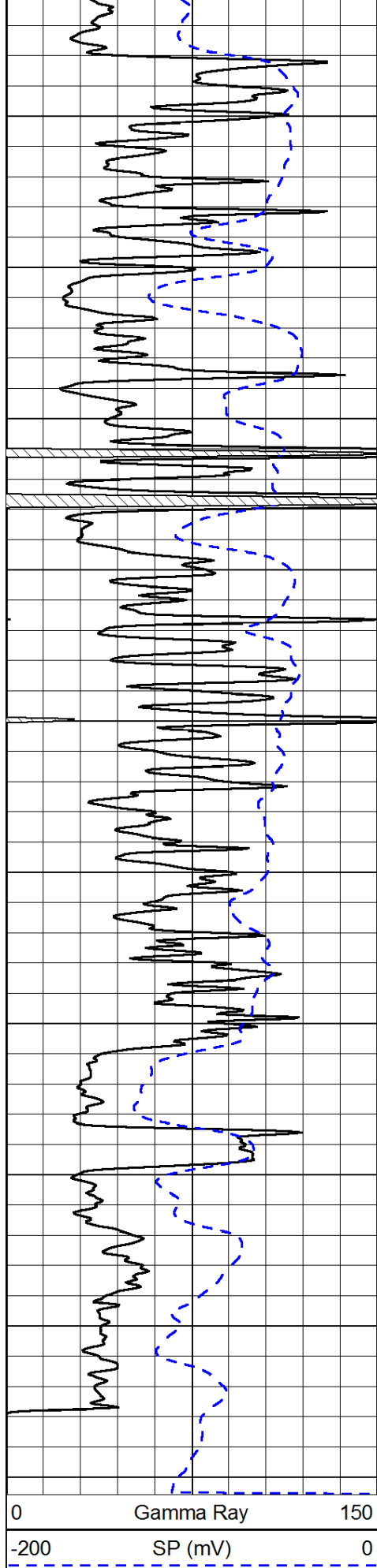
LSPD
0
0



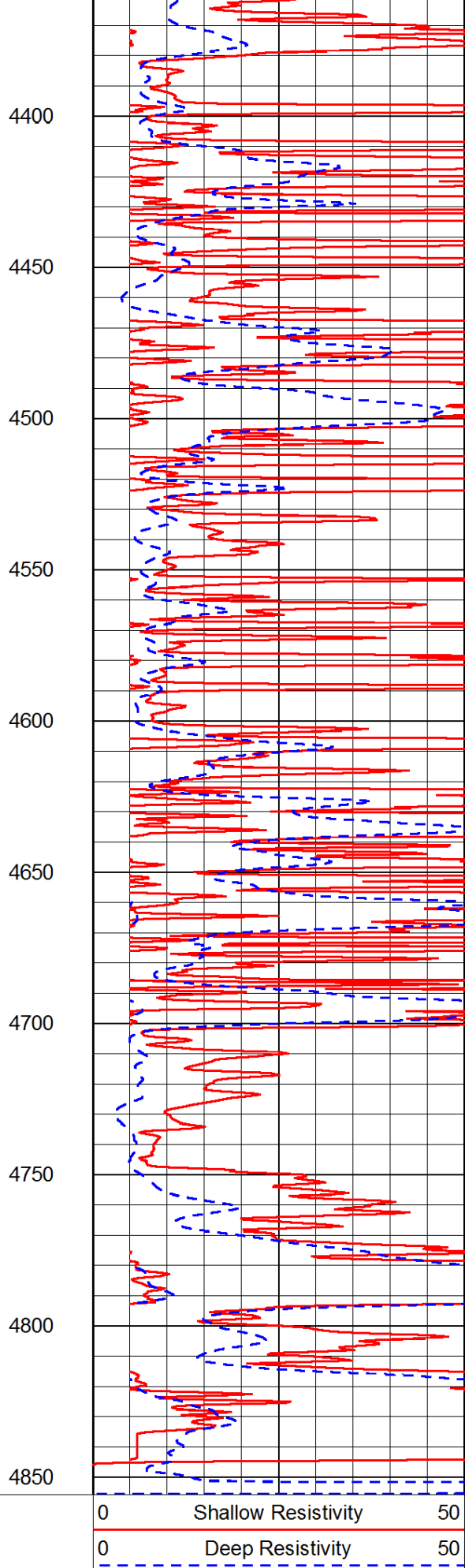




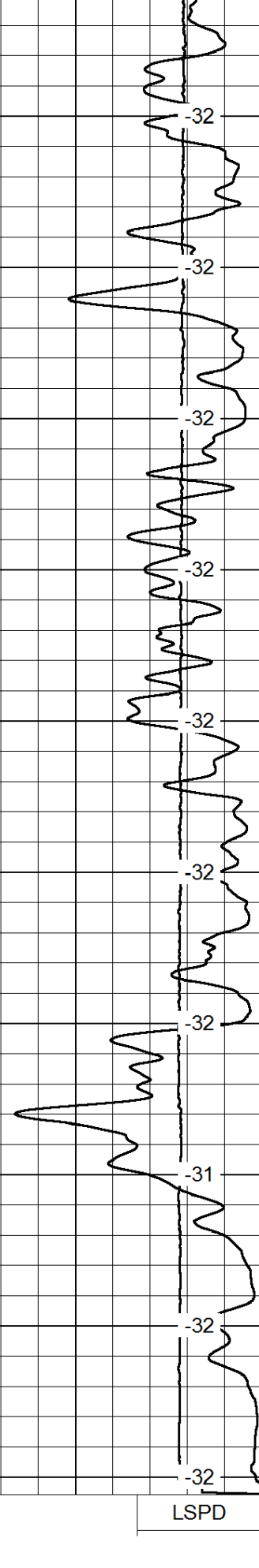




0 Gamma Ray 150
-200 SP (mV) 0



0 Shallow Resistivity 50
0 Deep Resistivity 50



LSPD

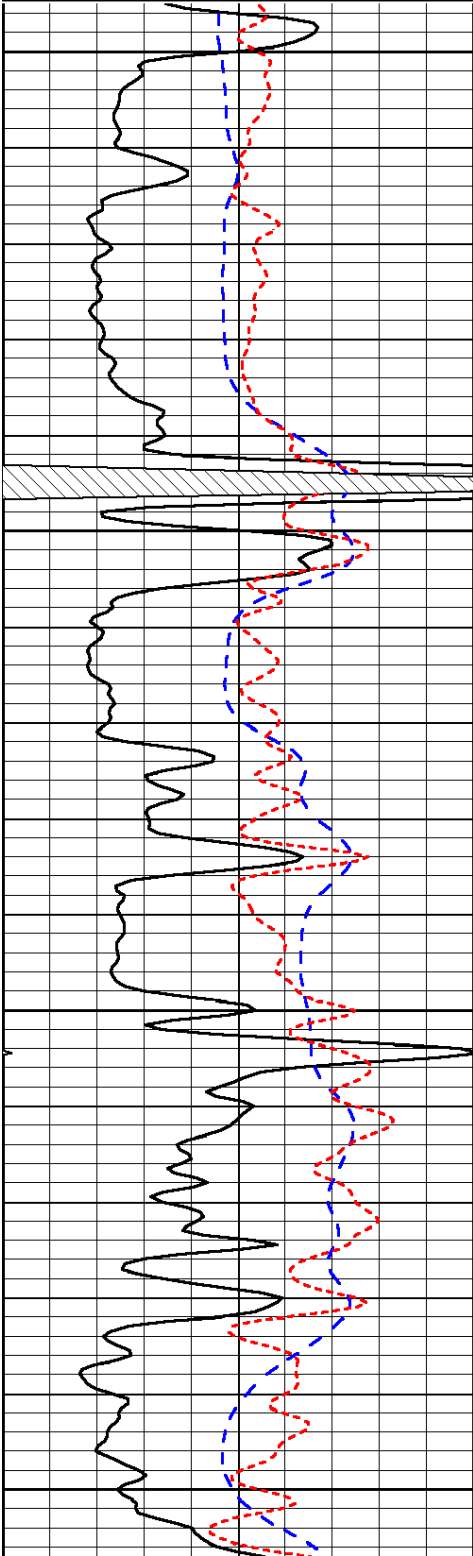
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500

Database File: c:\warrior\data\amwar_neeley #8 twin\american_warrior_neeley_8_twinhd.db
Dataset Pathname: DIL\awstk
Presentation Format: dil
Dataset Creation: Mon Jan 06 19:47:29 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

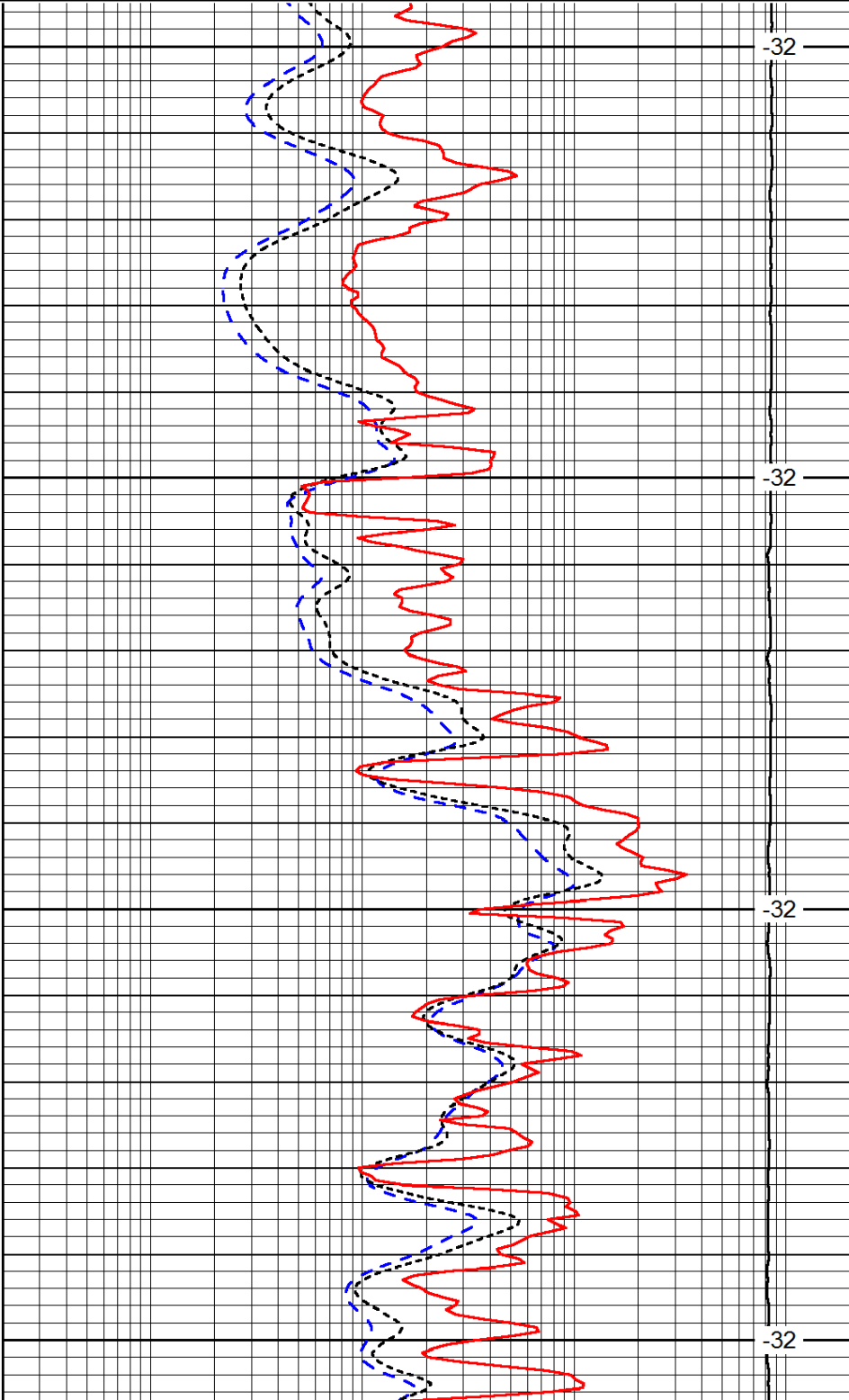


3800

3850

3900

3950

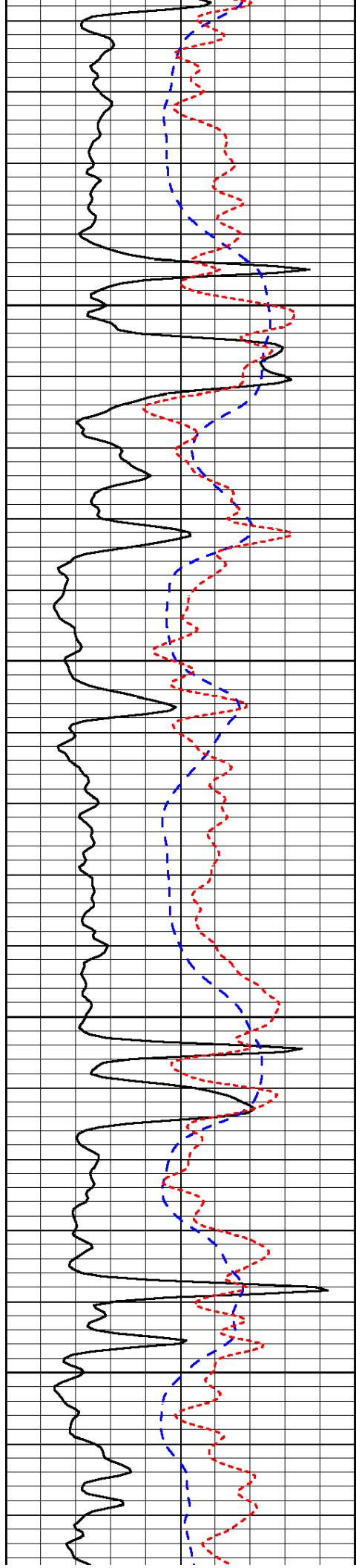


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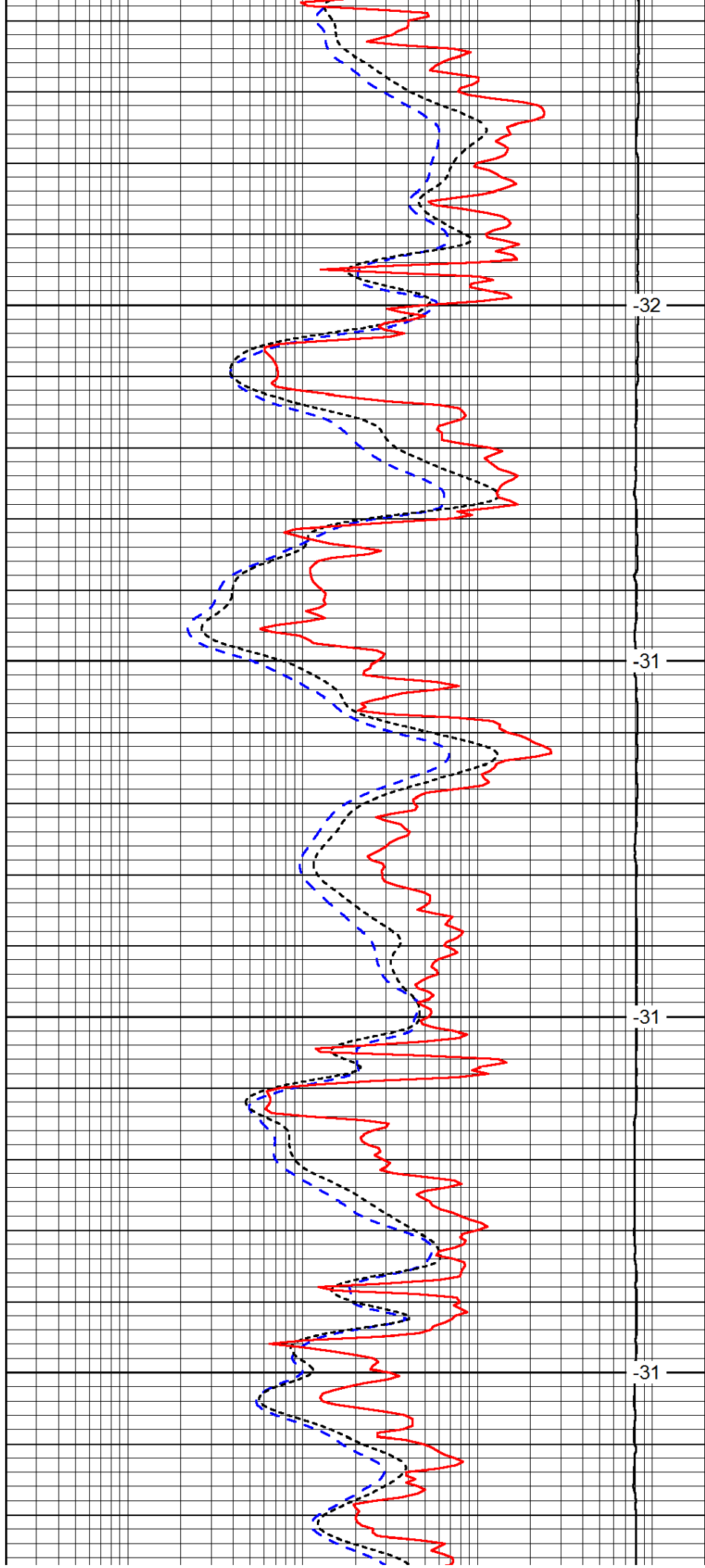


4000

4050

4100

4150

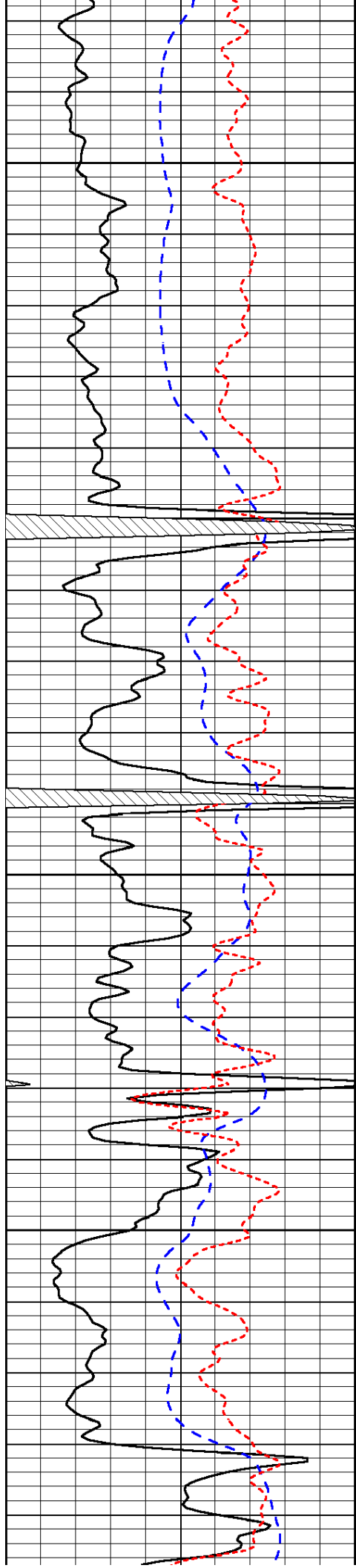


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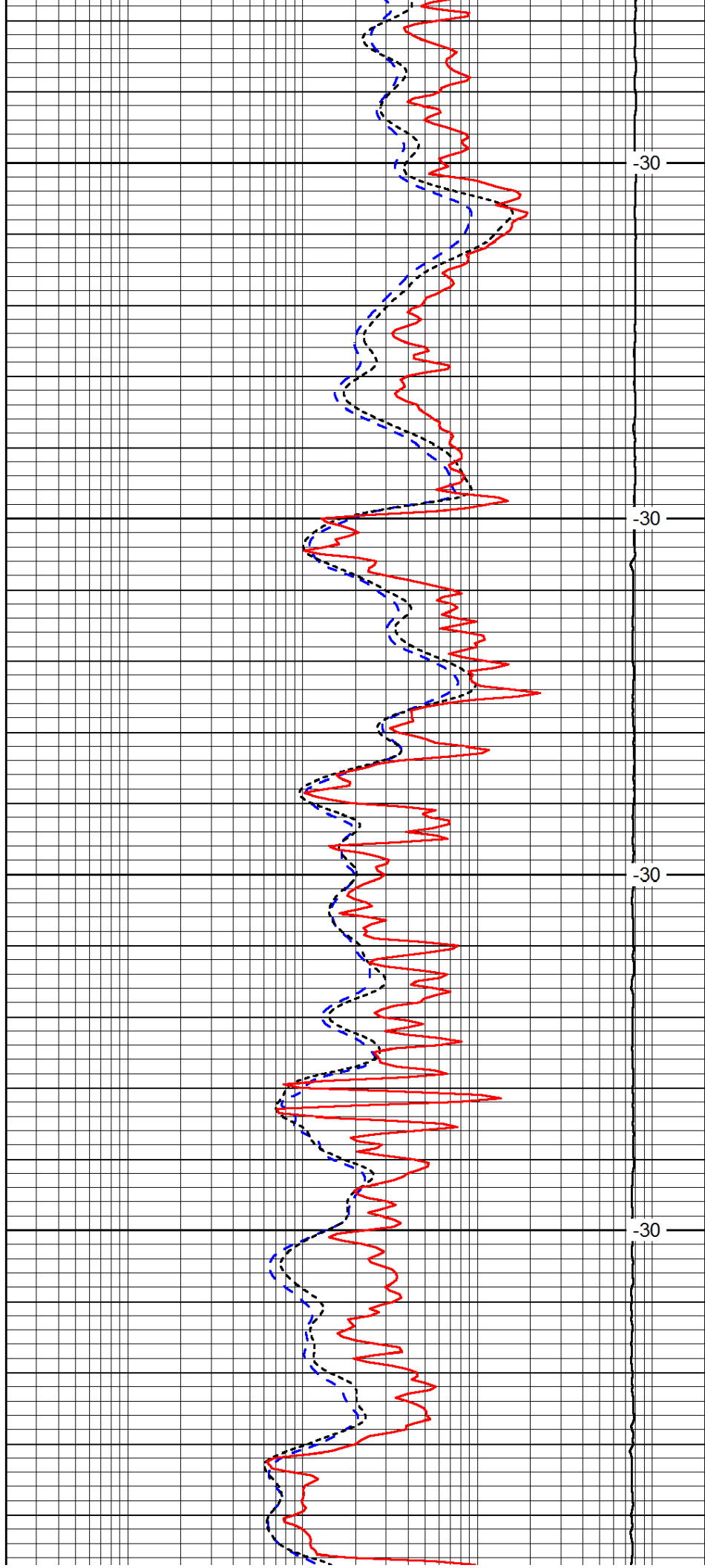


4200

4250

4300

4350

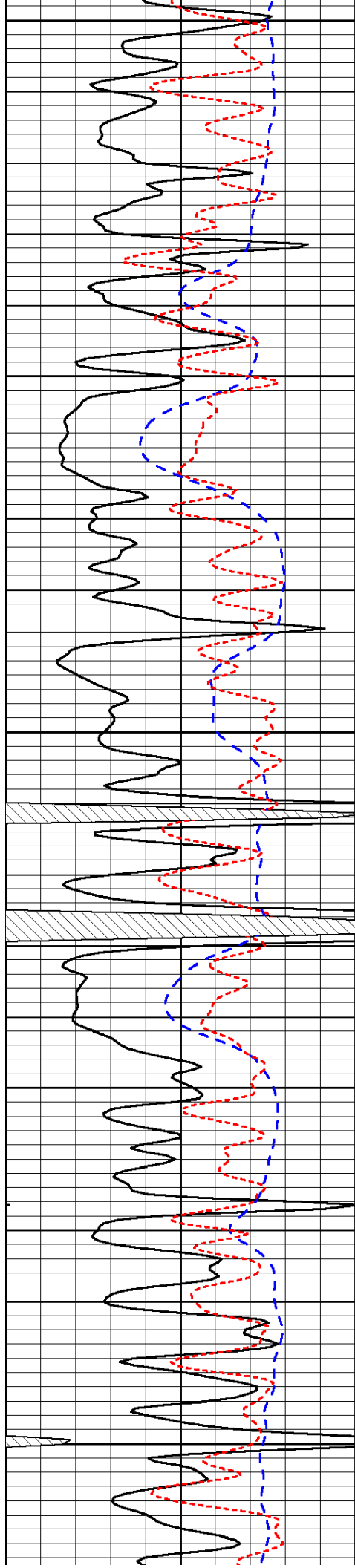


30

30

30

30



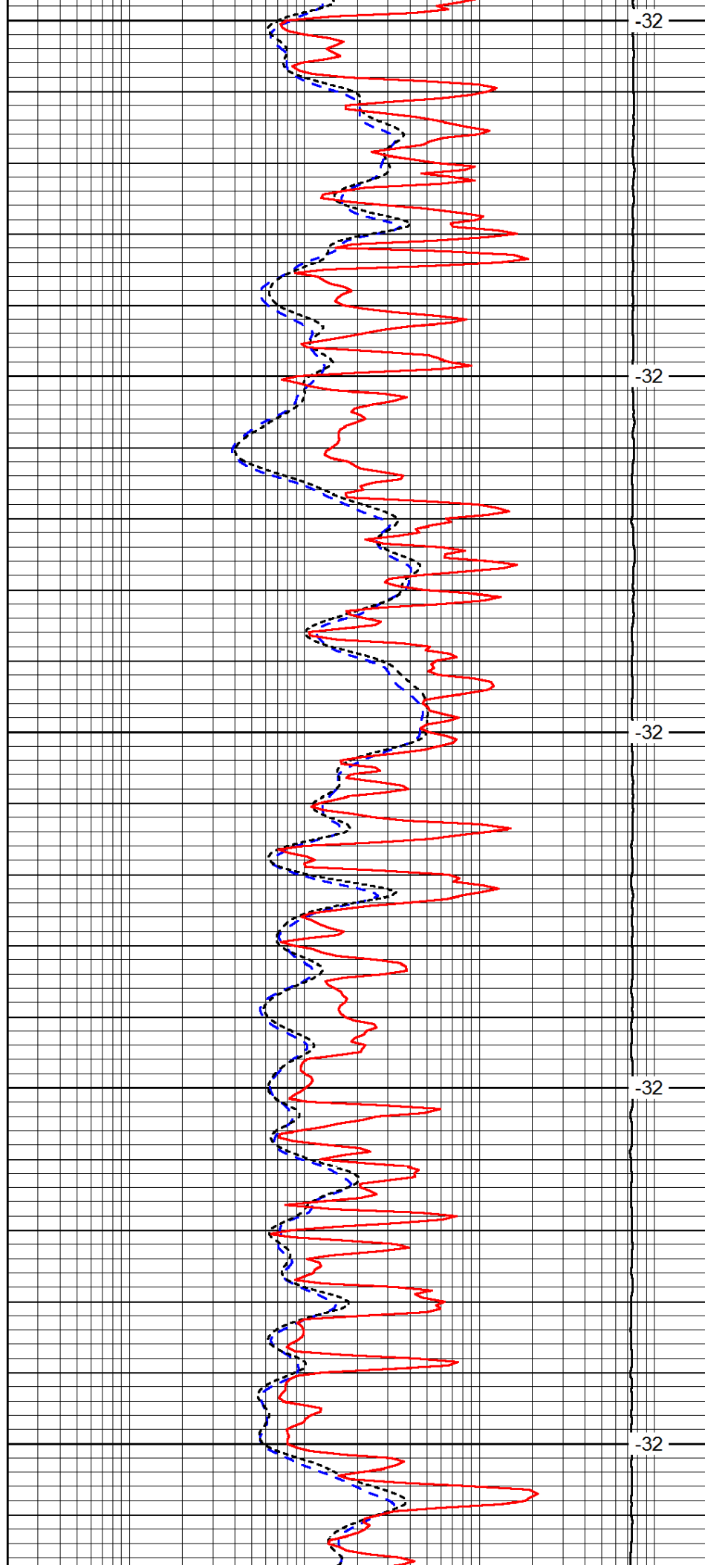
4400

4450

4500

4550

4600



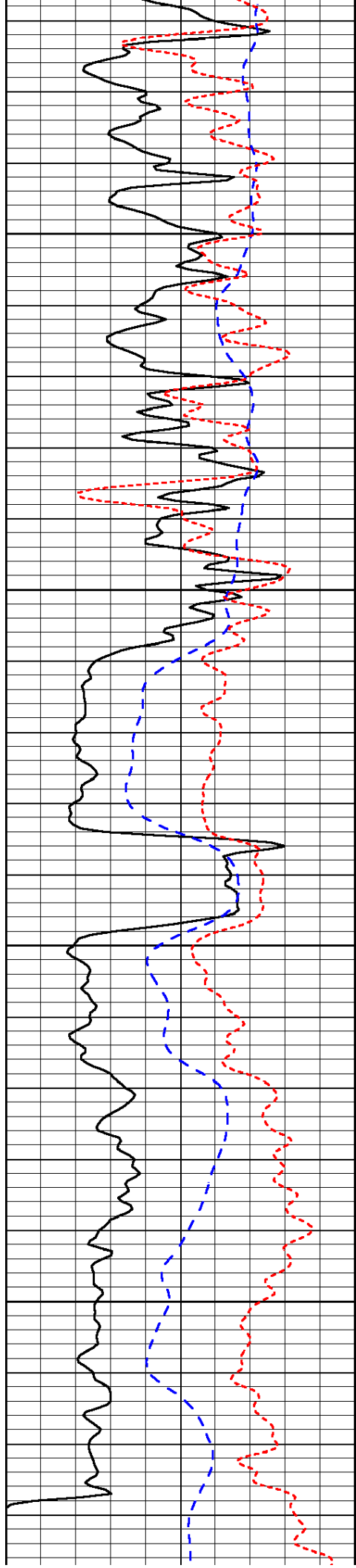
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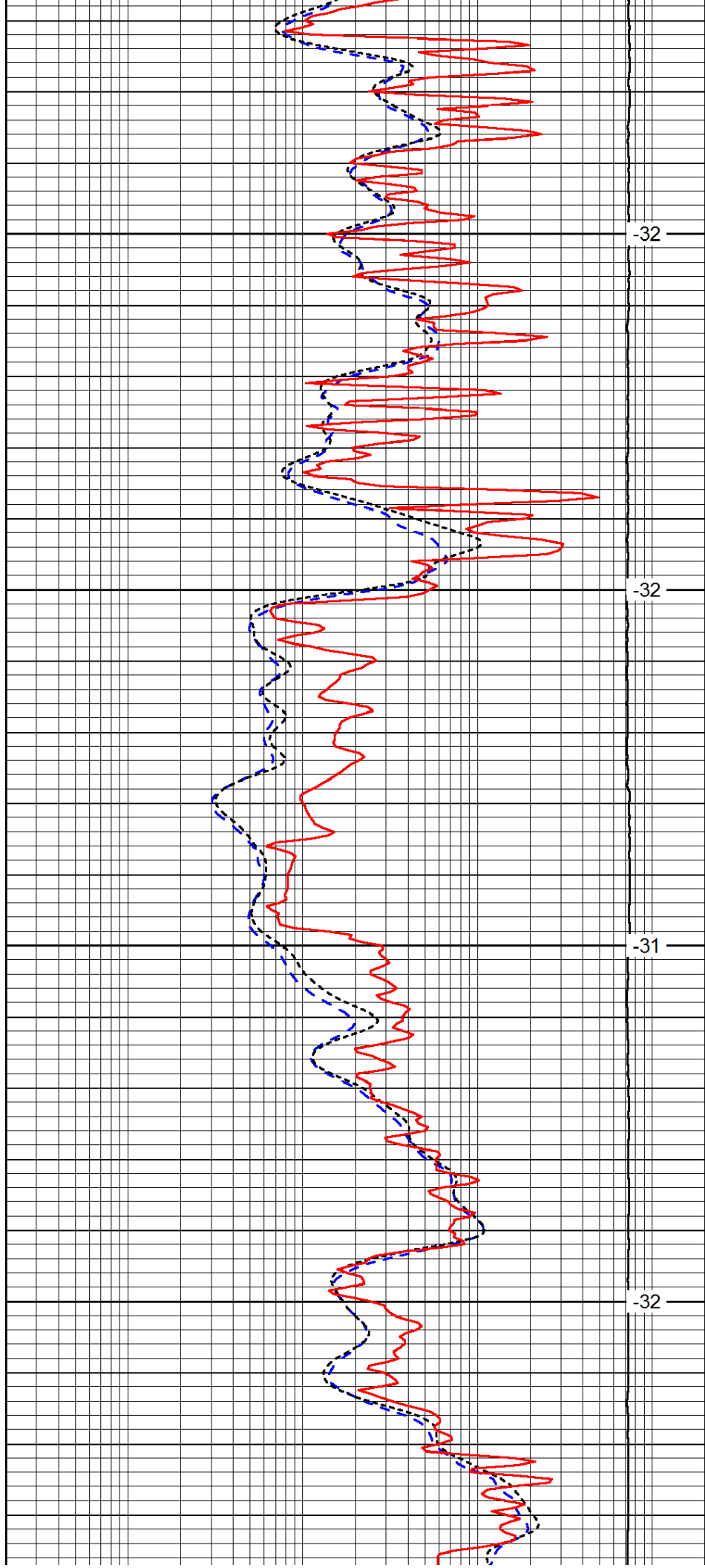


4650

4700

4750

4800

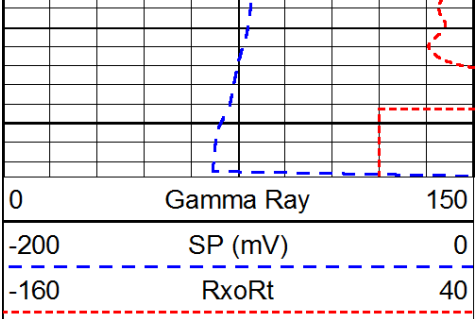


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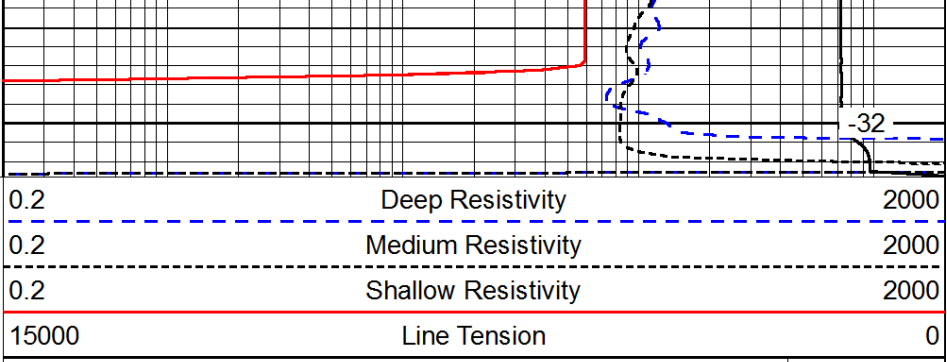
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-31

-32



4850



-32

LSPD