



Dual Induction Log

Pioneer Energy Services

API No.

15-171-20995-00-00

Company Landmark Resources, Inc.

Well Rose # 2-3

Field Wildcat

County Scott State

Kansas

Location

169' FNL & 2250' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: 3 Twp: 17S Rge: 34W

Permanent Datum

Ground Level

Elevation

Log Measured From

Kelly Bushing

K.B. 3137

Drilling Measured From

From Kelly Bushing

D.F. 3126

Date

11/07/2013

Run Number

One

Depth Driller

4890

Depth Logger

4888

Bottom Logged Interval

4887

Top Log Interval

250

Casing Driller

8.625 @ 265

Casing Logger

266

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4000

Density / Viscosity

9.2 68

pH / Fluid Loss

10.5 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

0.42 @ 51

Rmf @ Meas. Temp

0.31 @ 51

Rmc @ Meas. Temp

0.56 @ 51

Source of Rmf / Rmc

Charts

Rm @ BHT

0.17 @ 127

Operating Rig Time

6 Hours

Max Rec. Temp. F

127

Equipment Number

91

Location

Hays

Recorded By

Y. Ruiz

Witnessed By

Terry McLeod

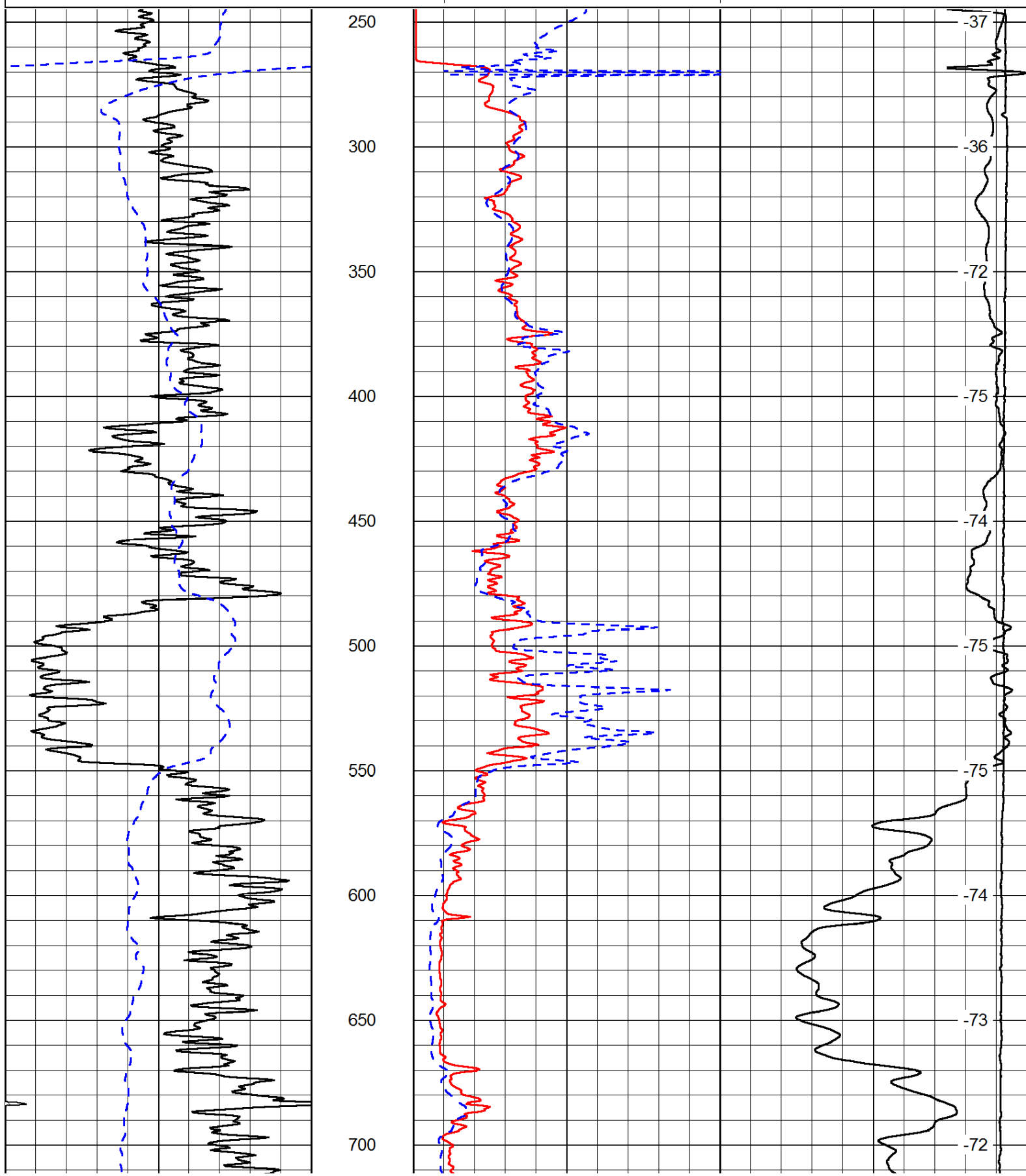
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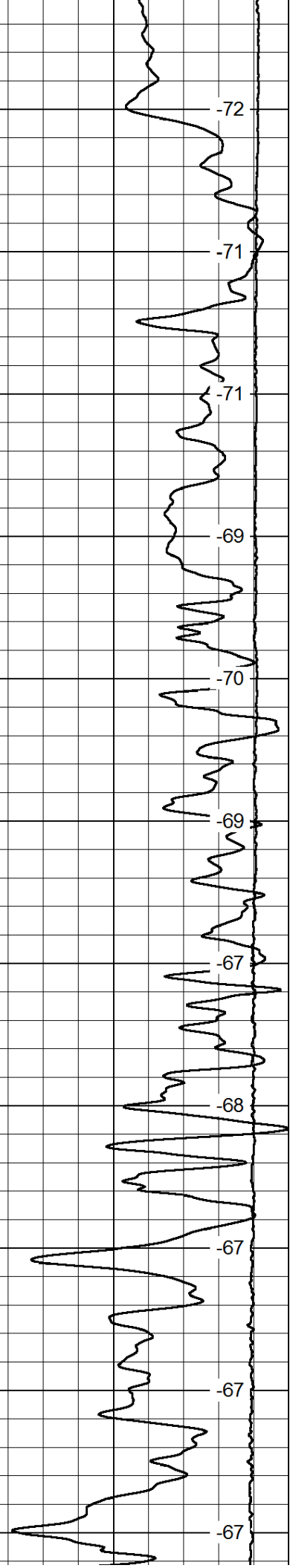
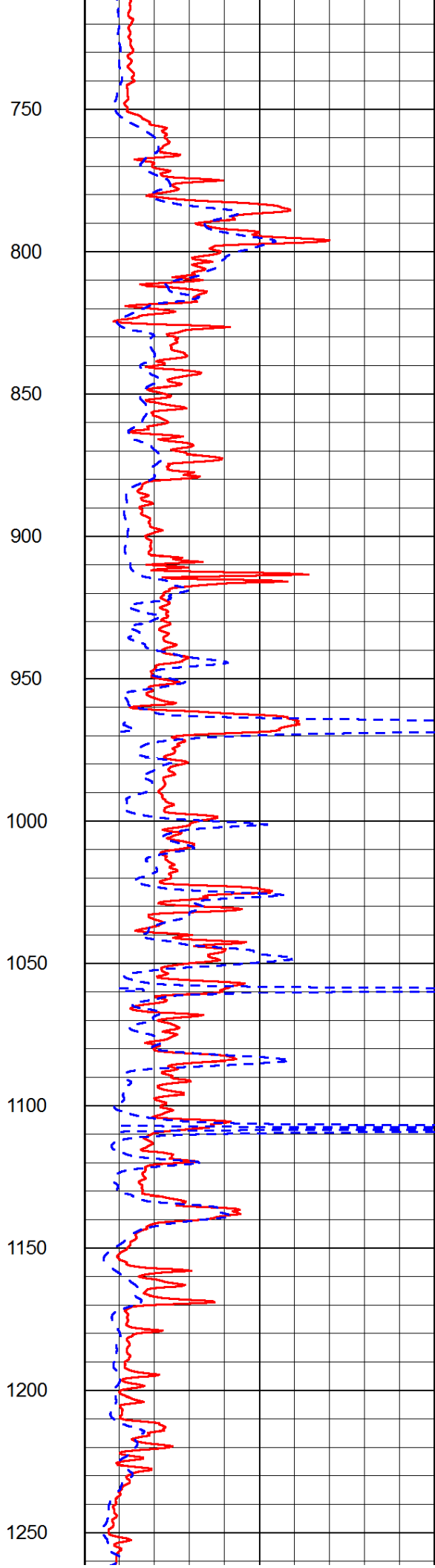
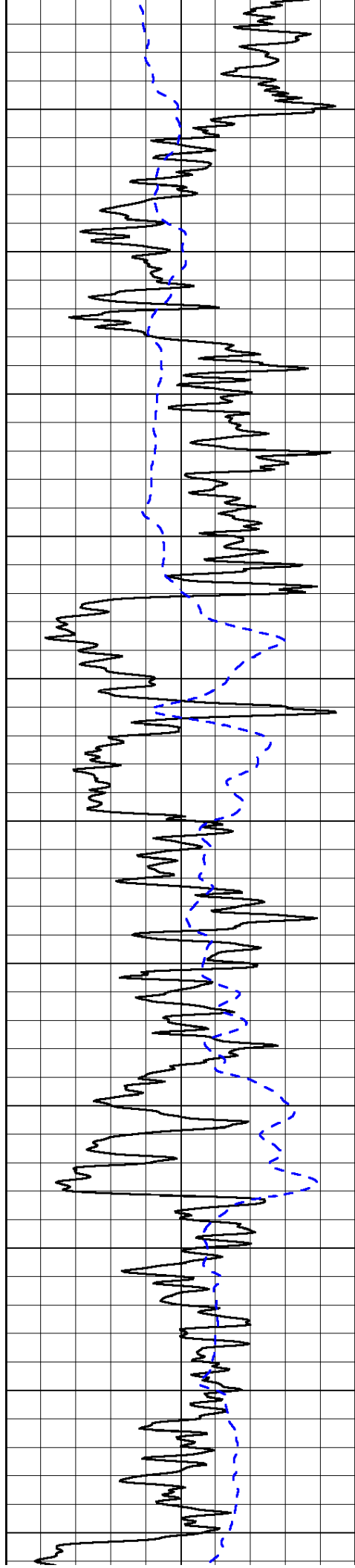
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

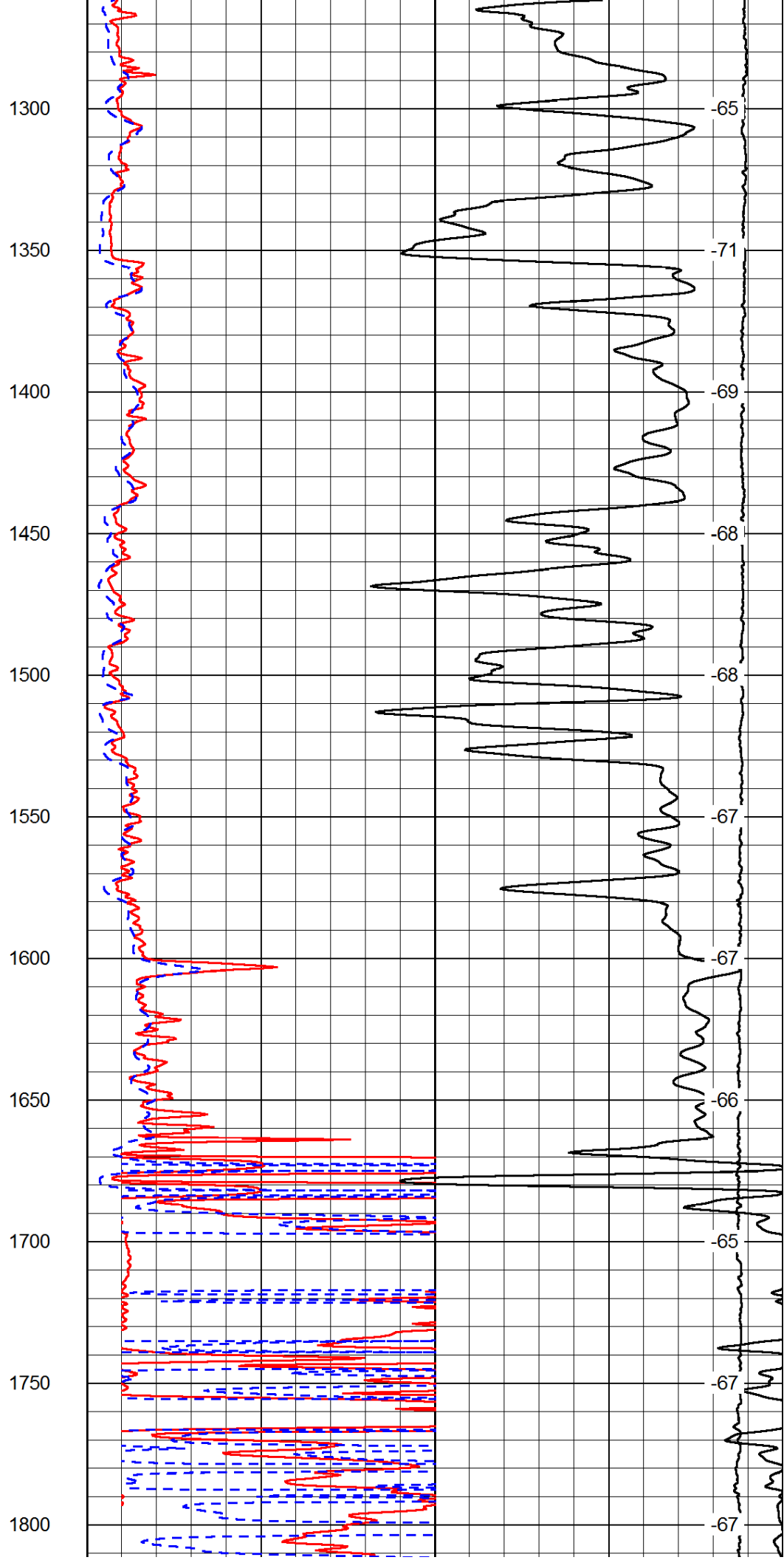
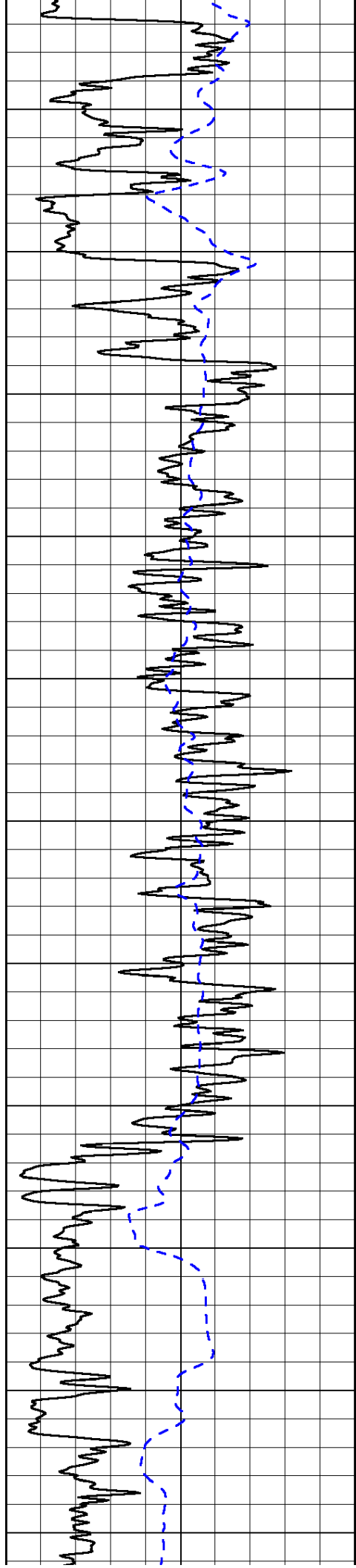
Comments

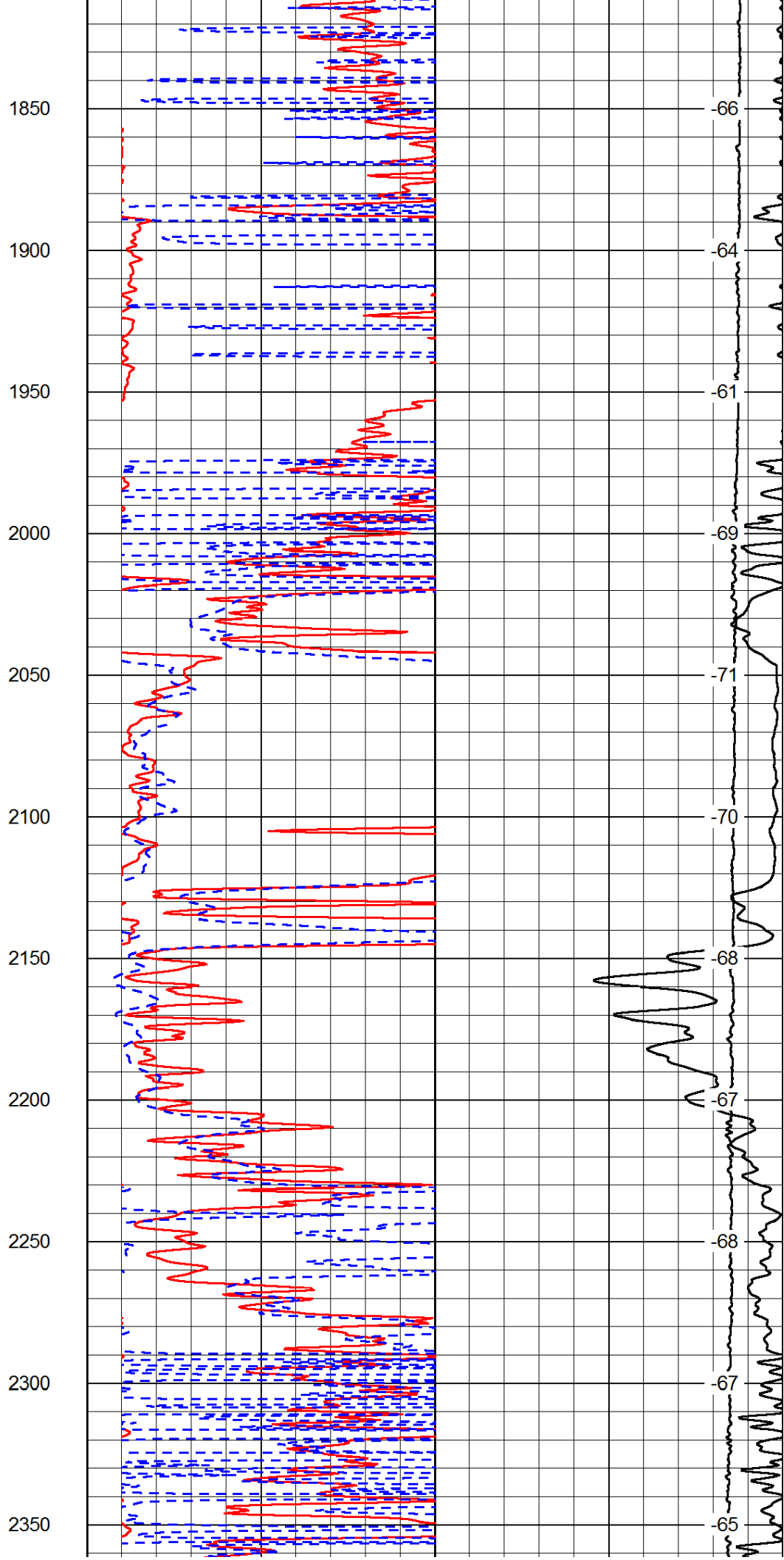
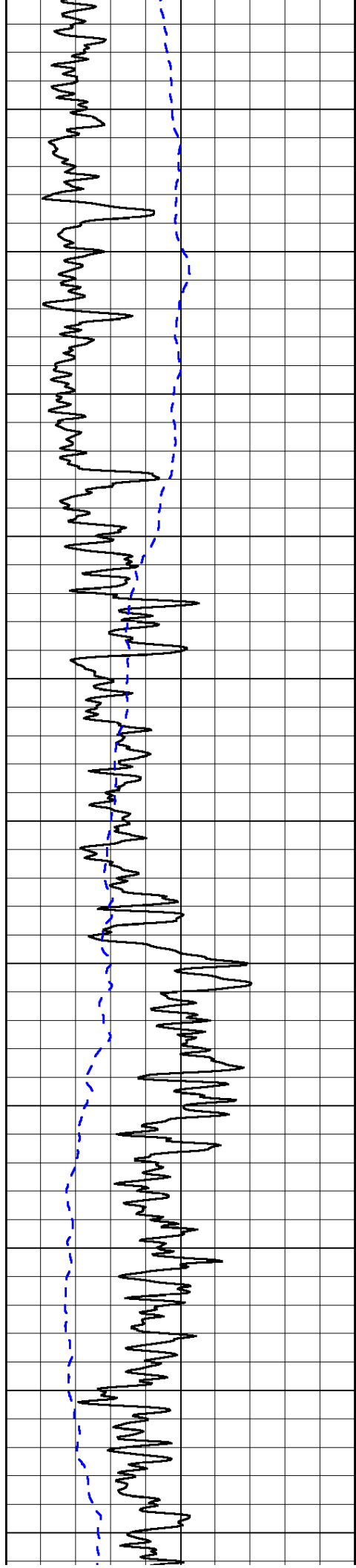
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Scott City,
North to 230 Rd, 4 West, 1 North, 4 1/2 West,
South into

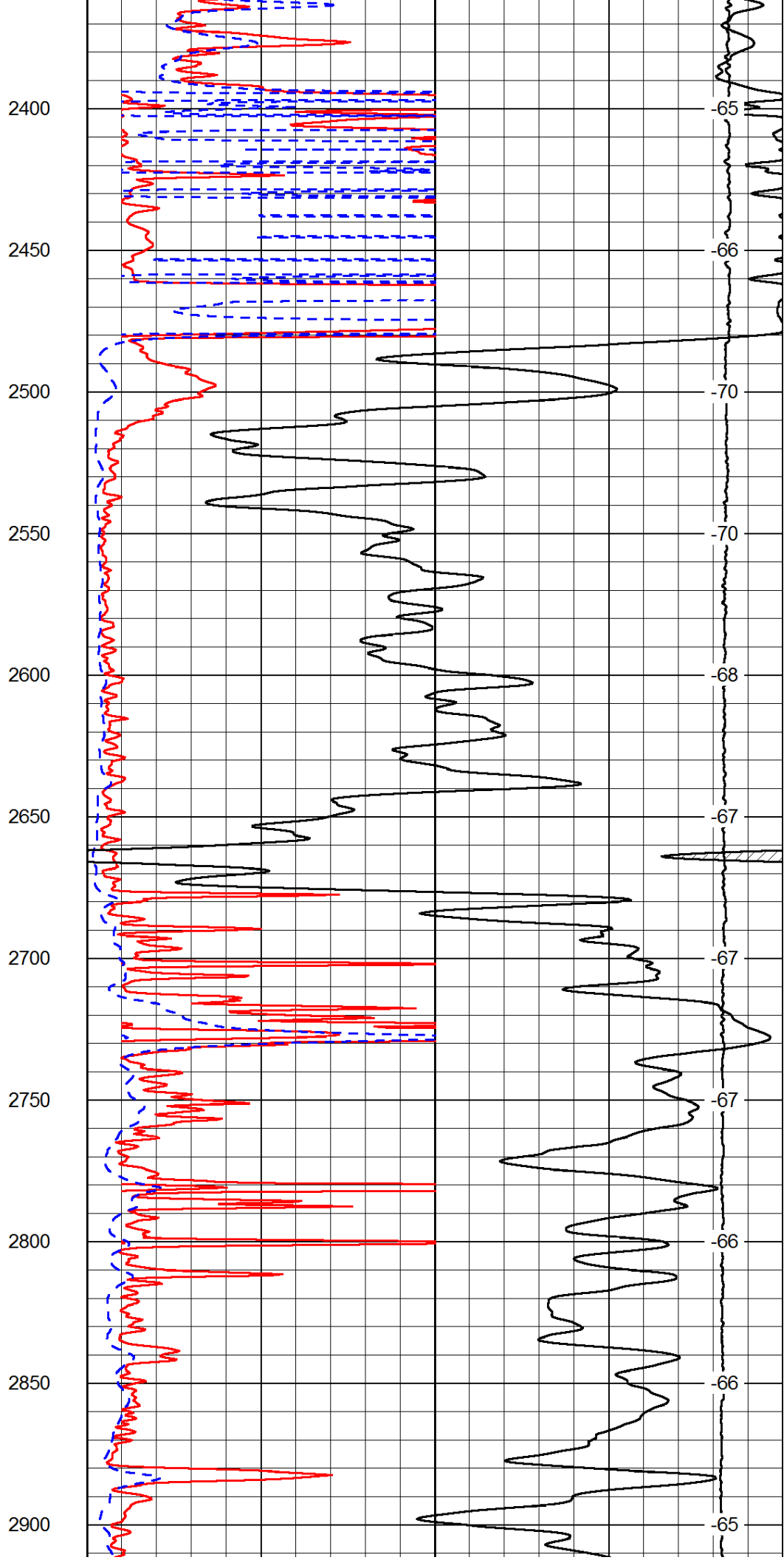
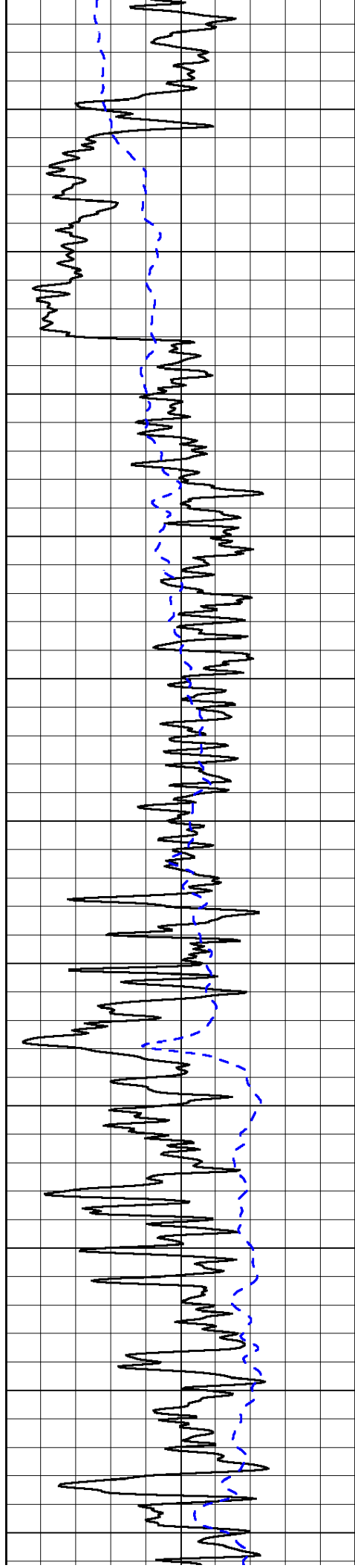
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Dataset Pathname: DIL\landstack
Presentation Format: dil2in
Dataset Creation: Thu Nov 07 20:24:23 2013
Charted by: Depth in Feet scaled 1:600

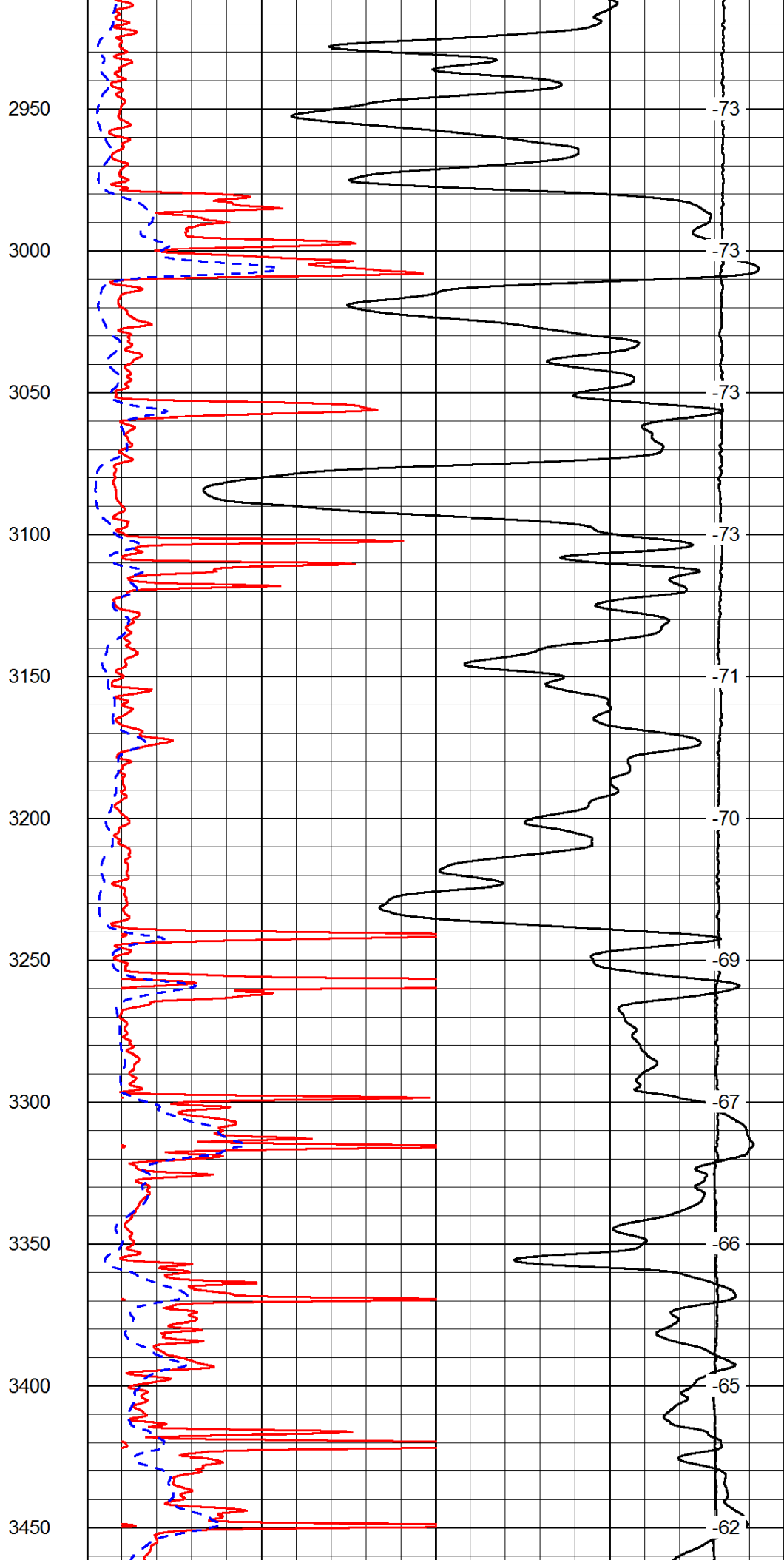
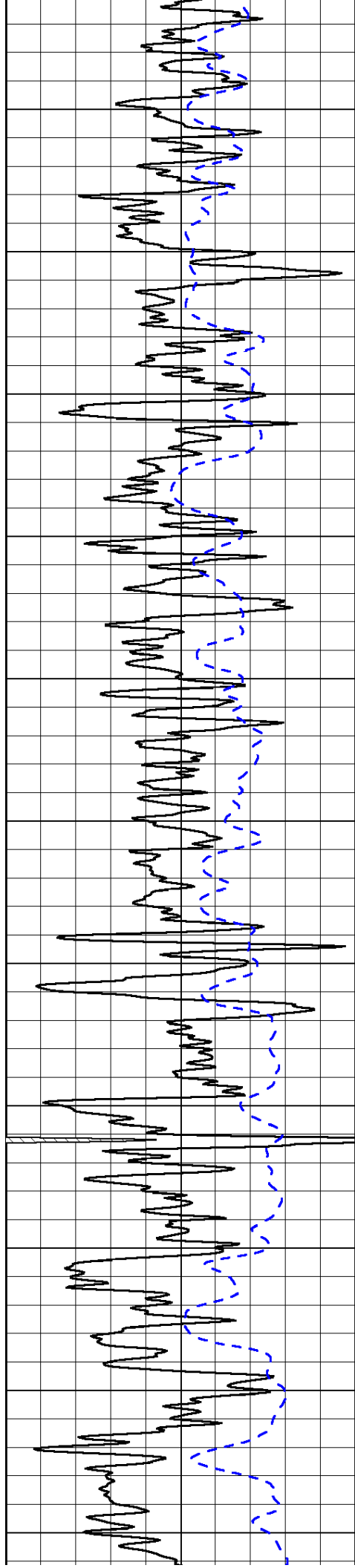


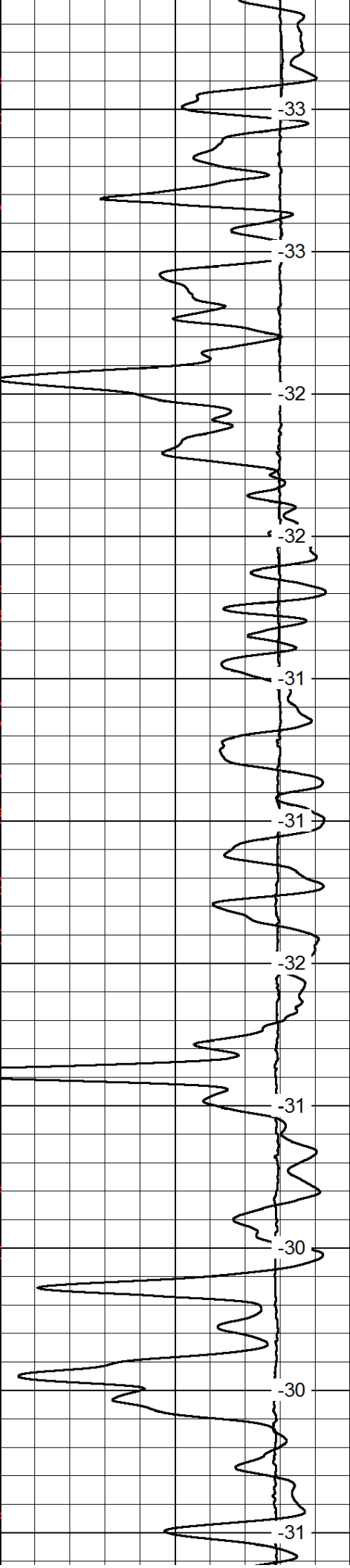
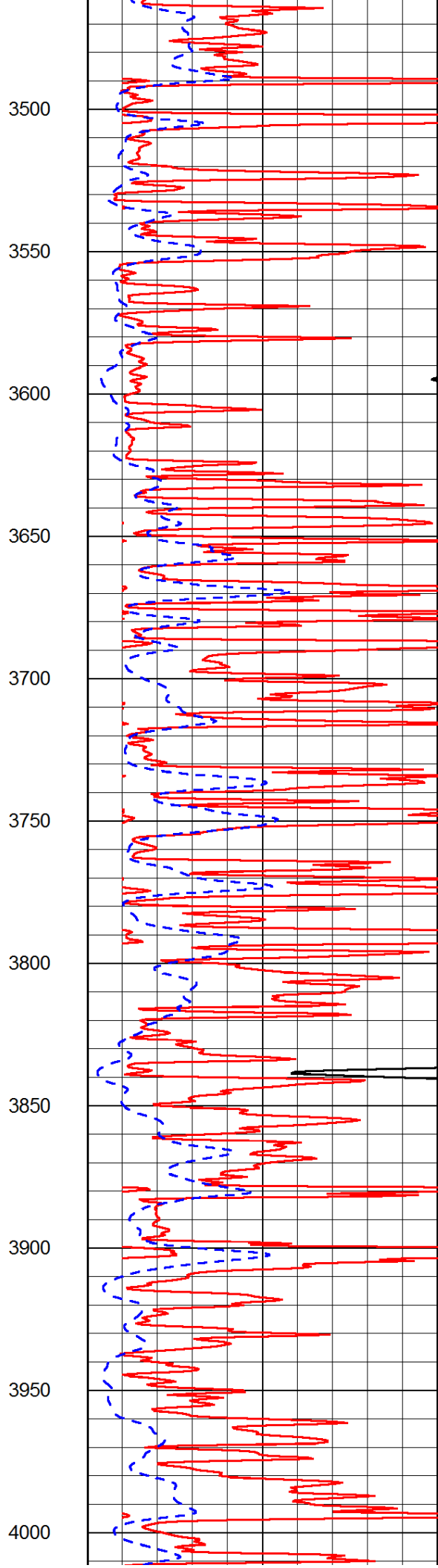
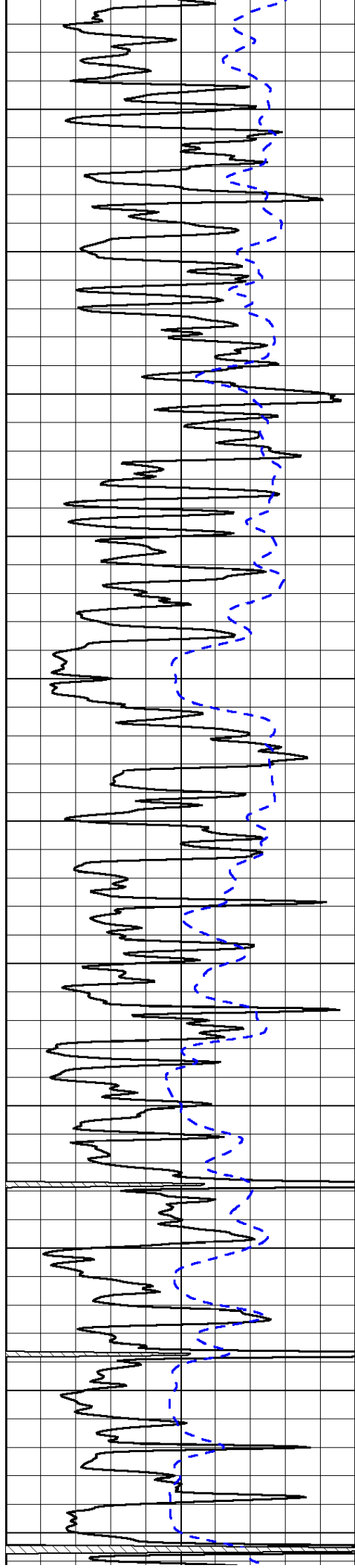


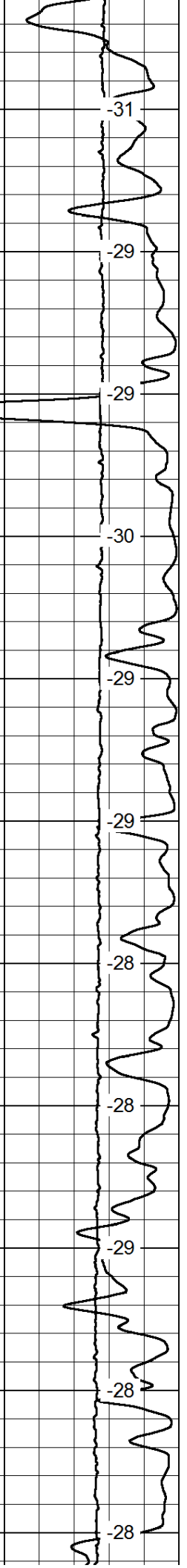
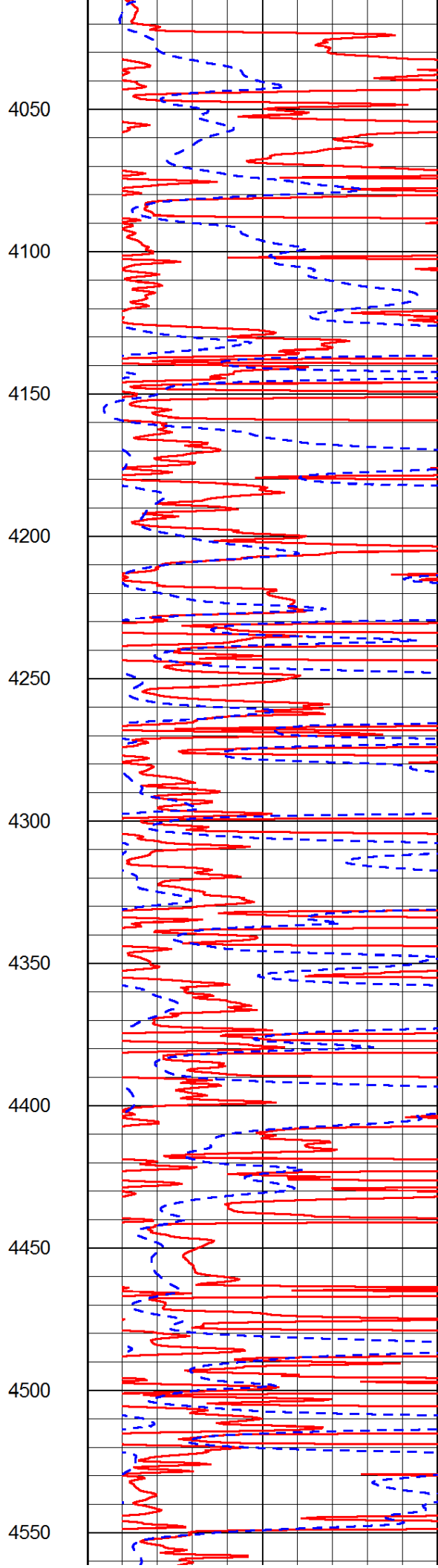
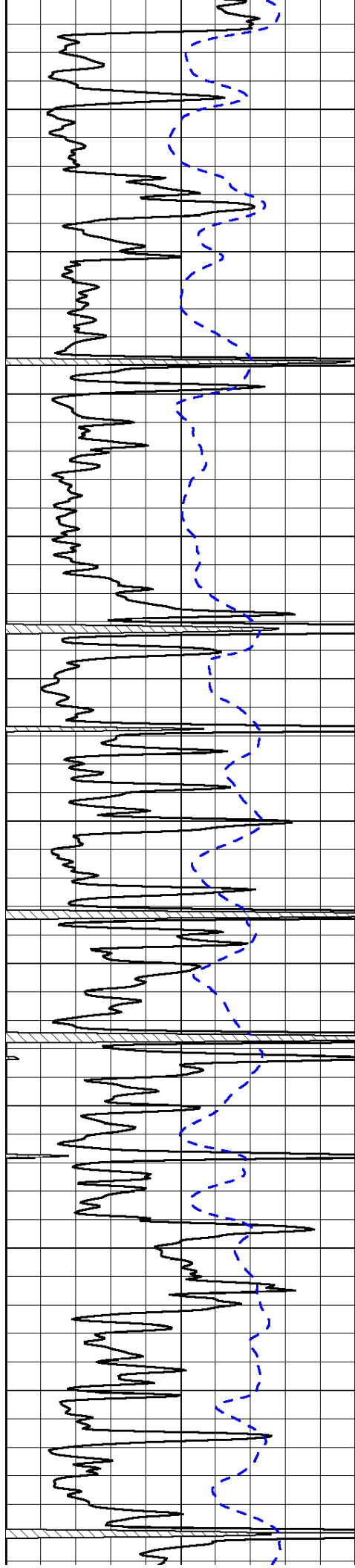


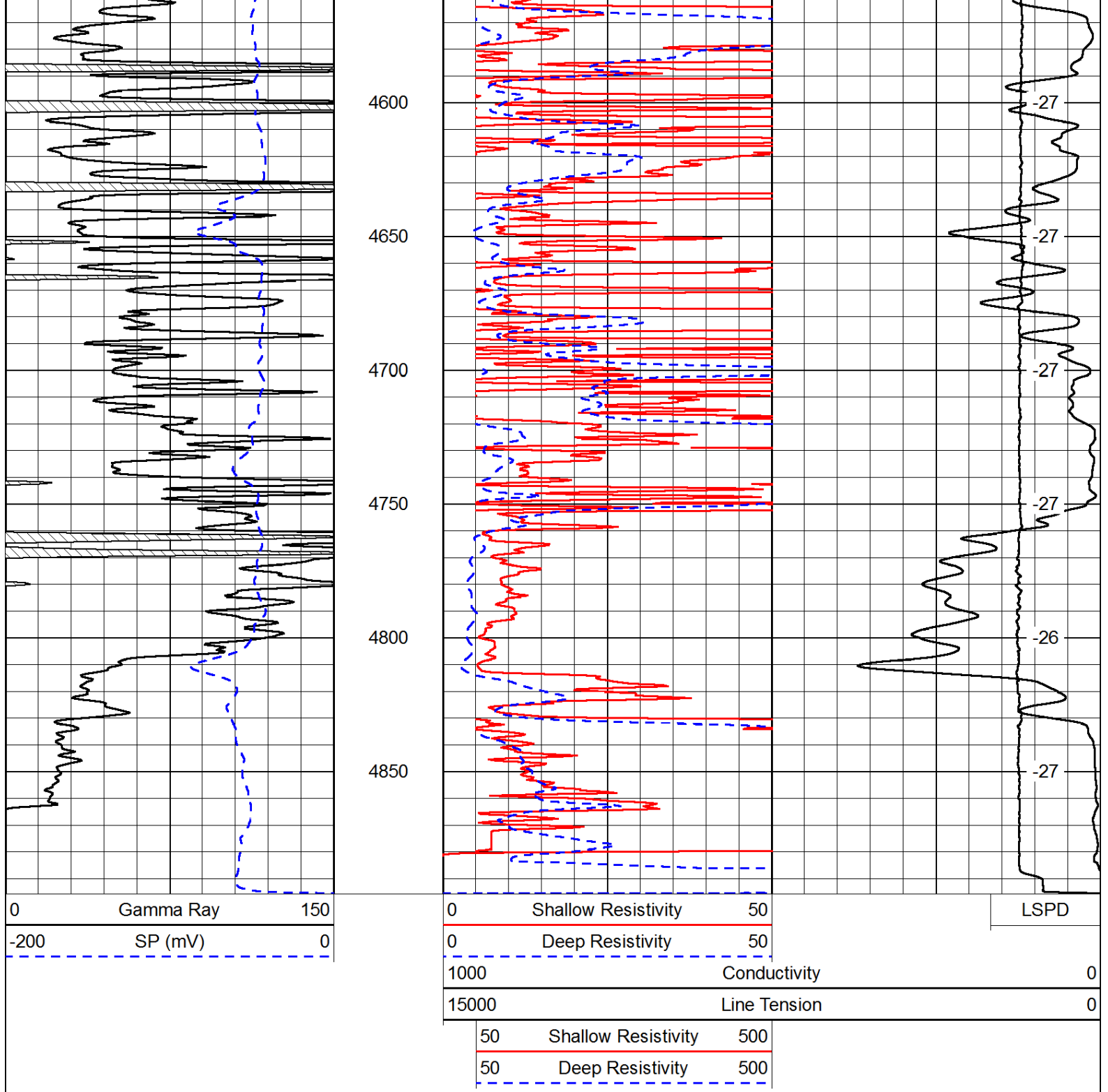




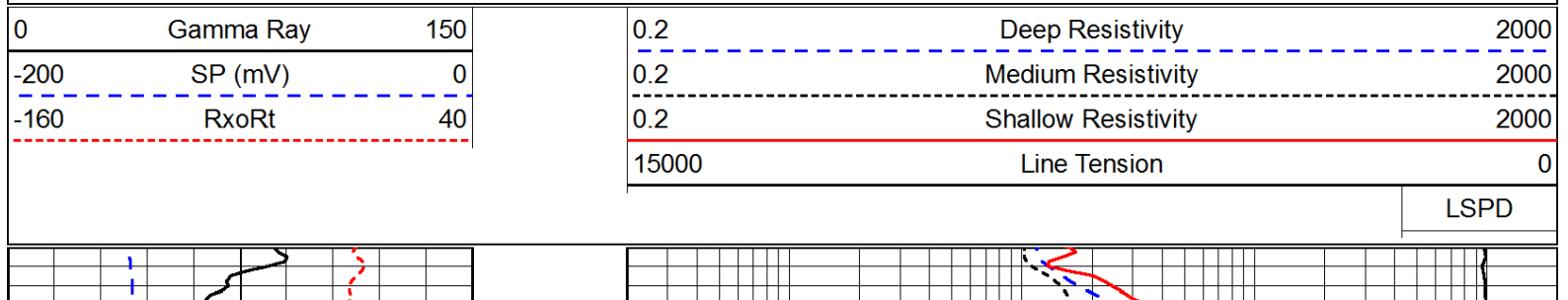


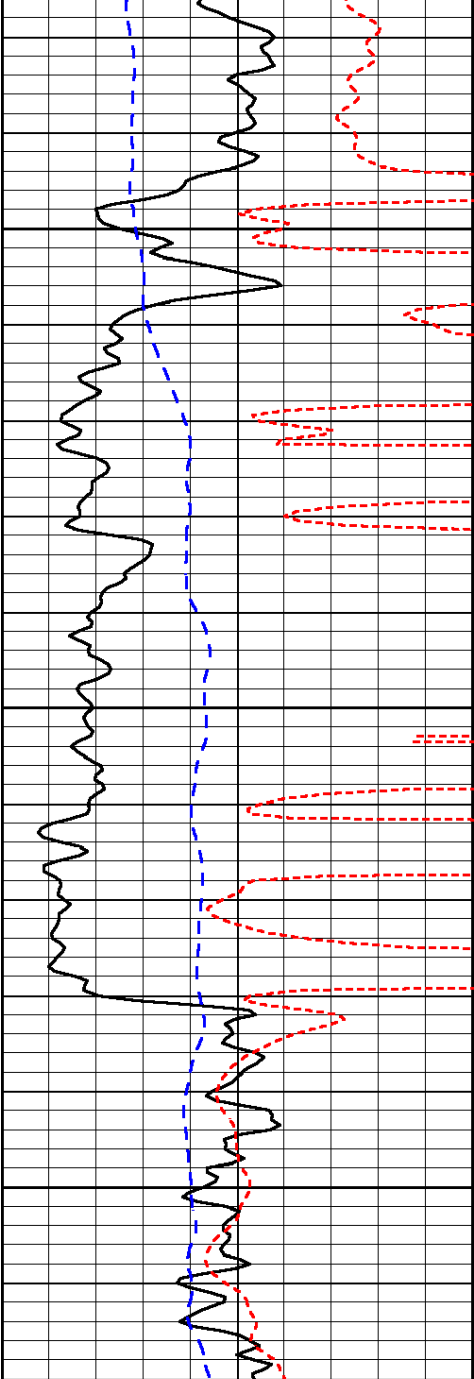






Database File: c:\warrior\data\landmark_rose # 2-3\landmark_10713hd.db
Dataset Pathname: DIL/landstack
Presentation Format: dil
Dataset Creation: Thu Nov 07 20:24:23 2013
Charted by: Depth in Feet scaled 1:240



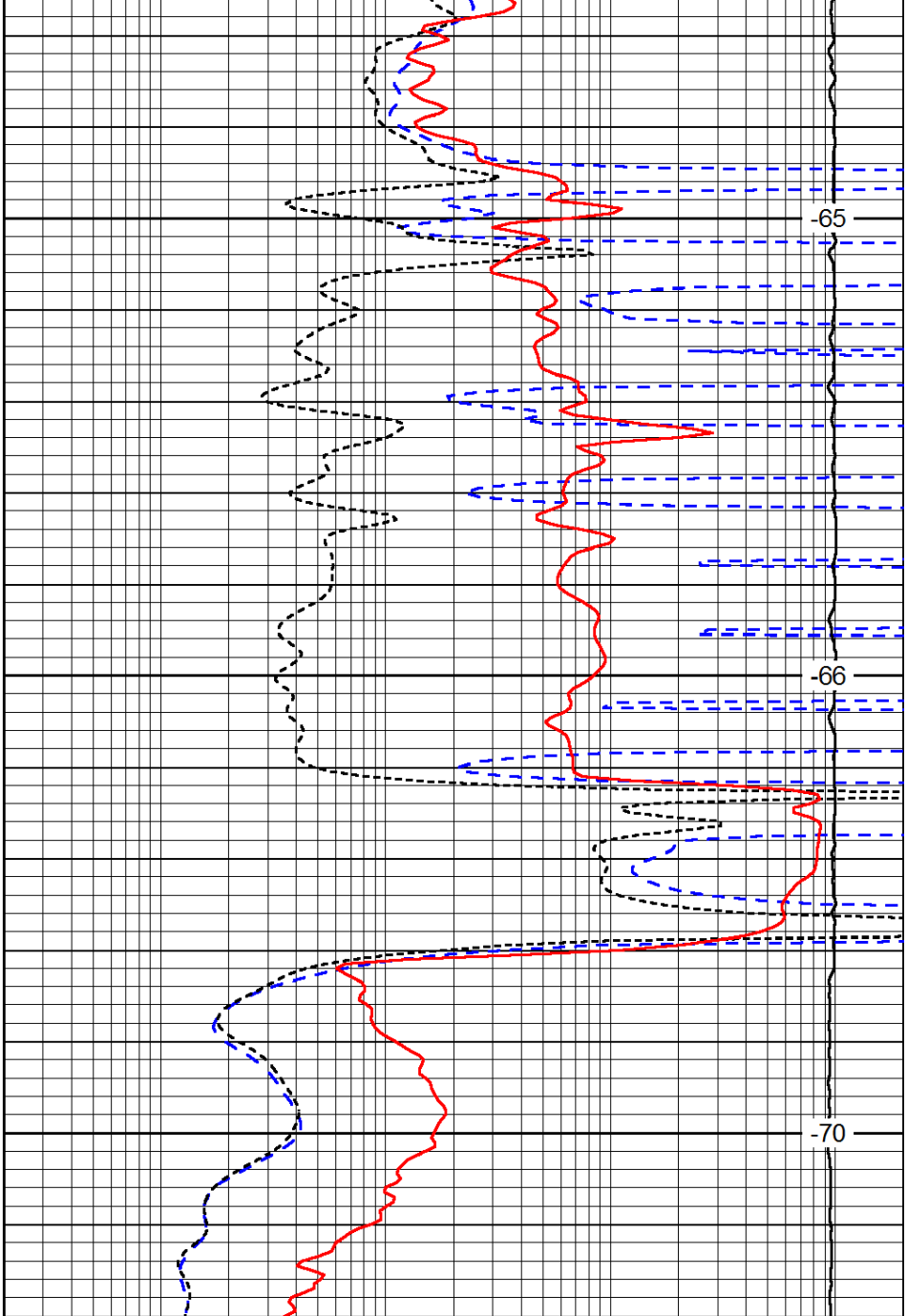


0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

2400

2450

2500



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

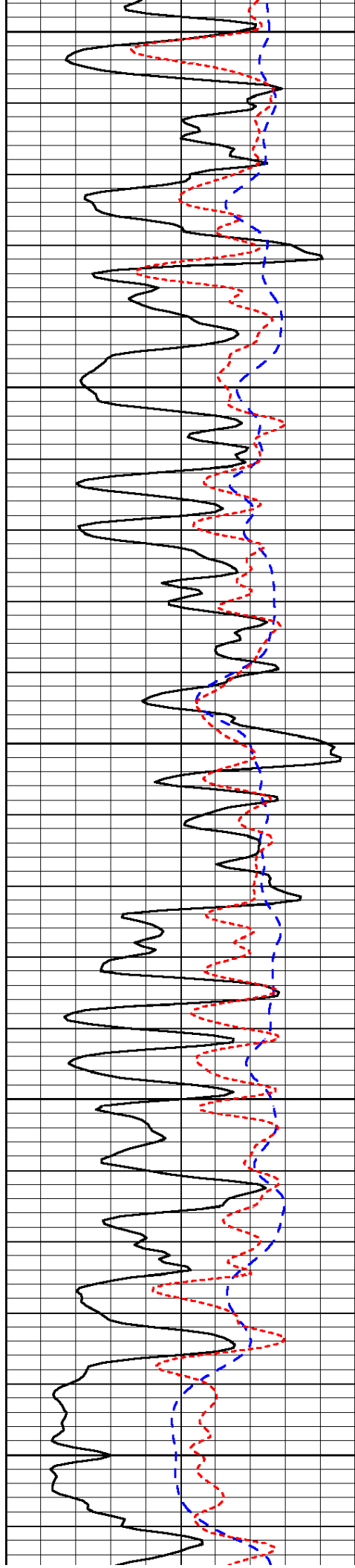
LSPD

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LSPD



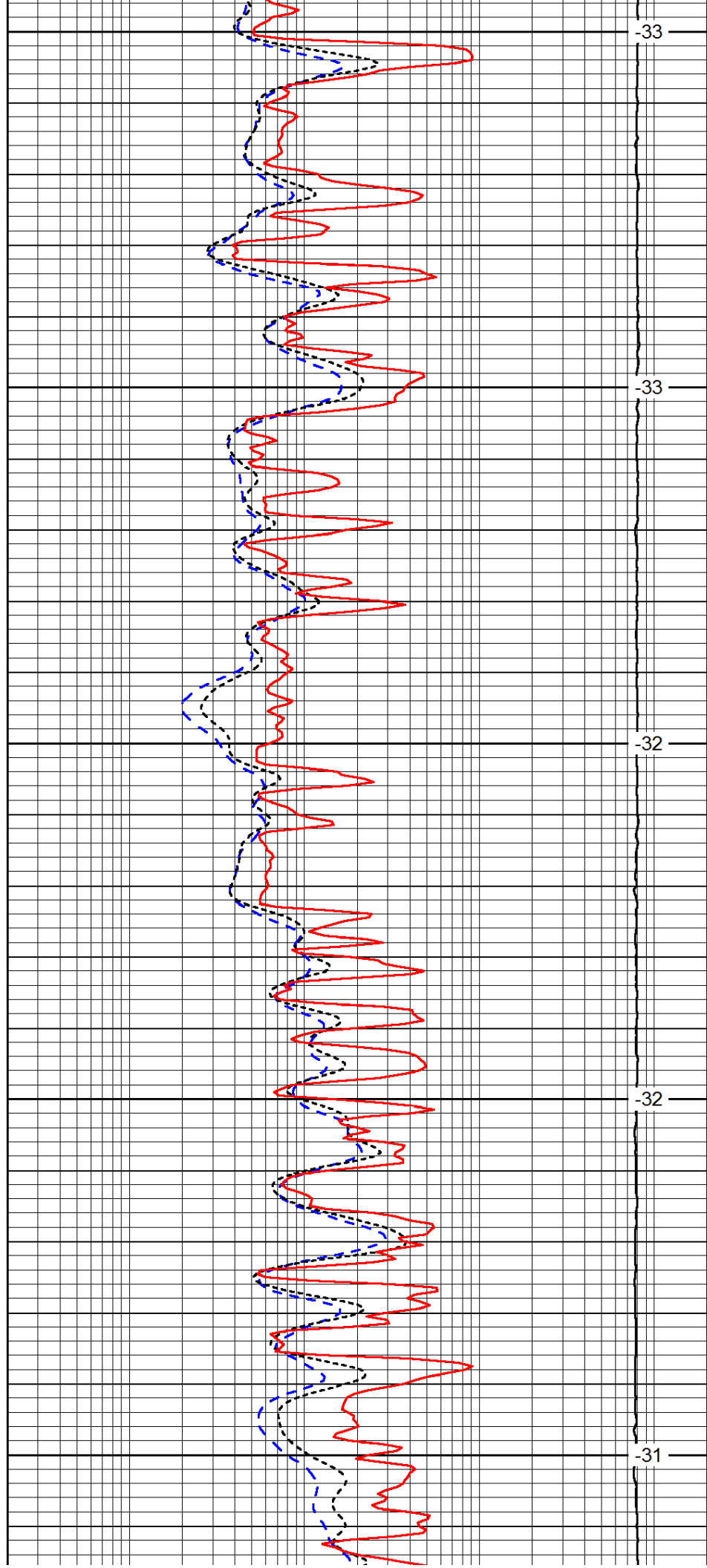
3500

3550

3600

3650

3700



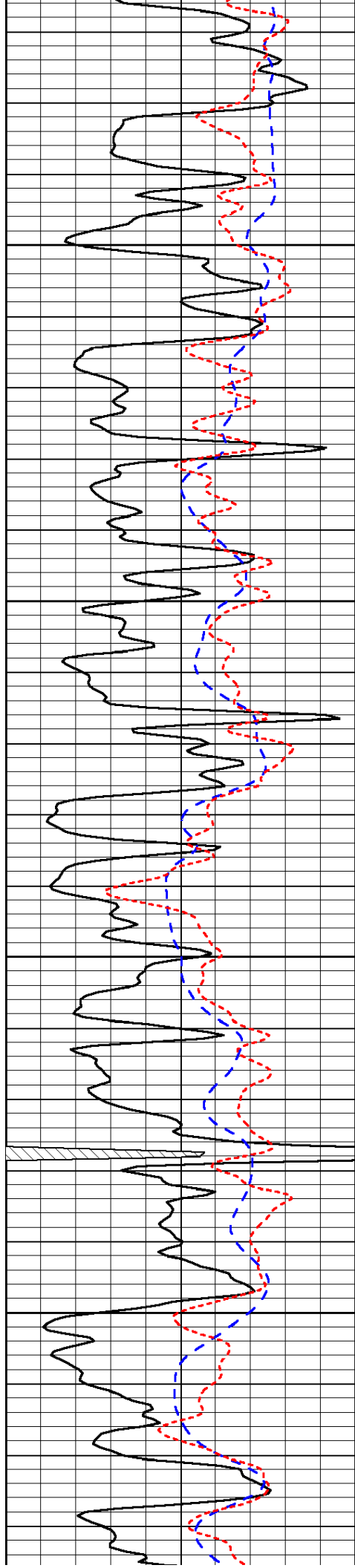
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-33

-32

-32

-31

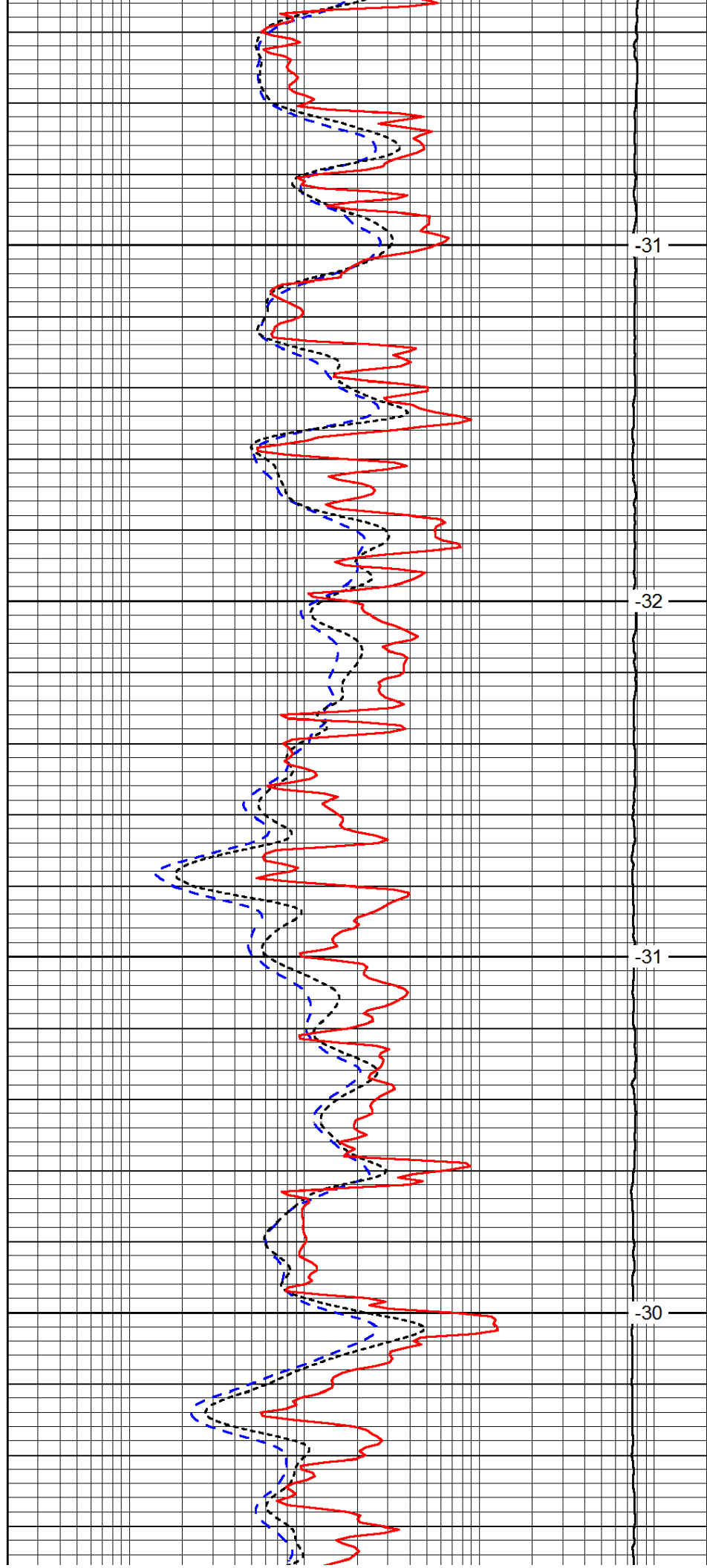


3750

3800

3850

3900

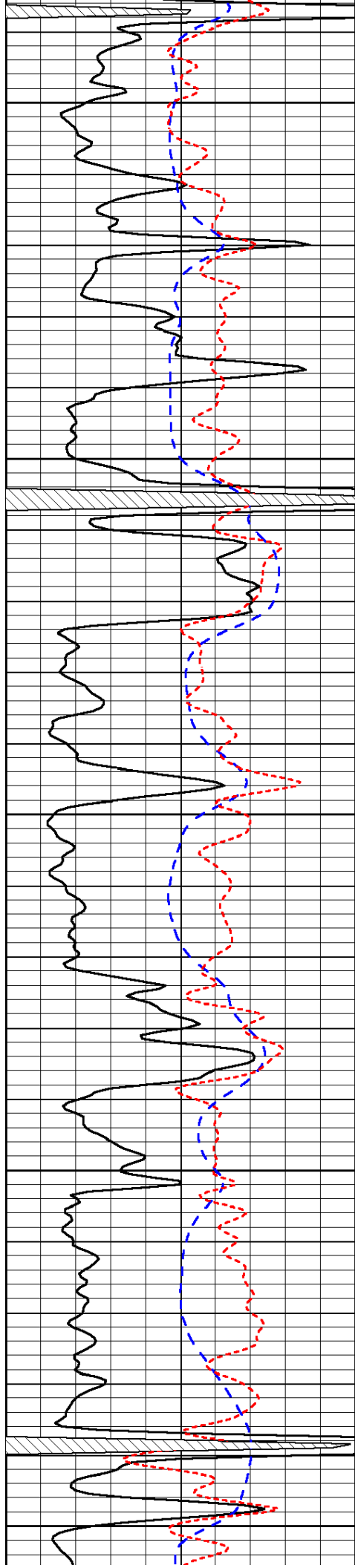


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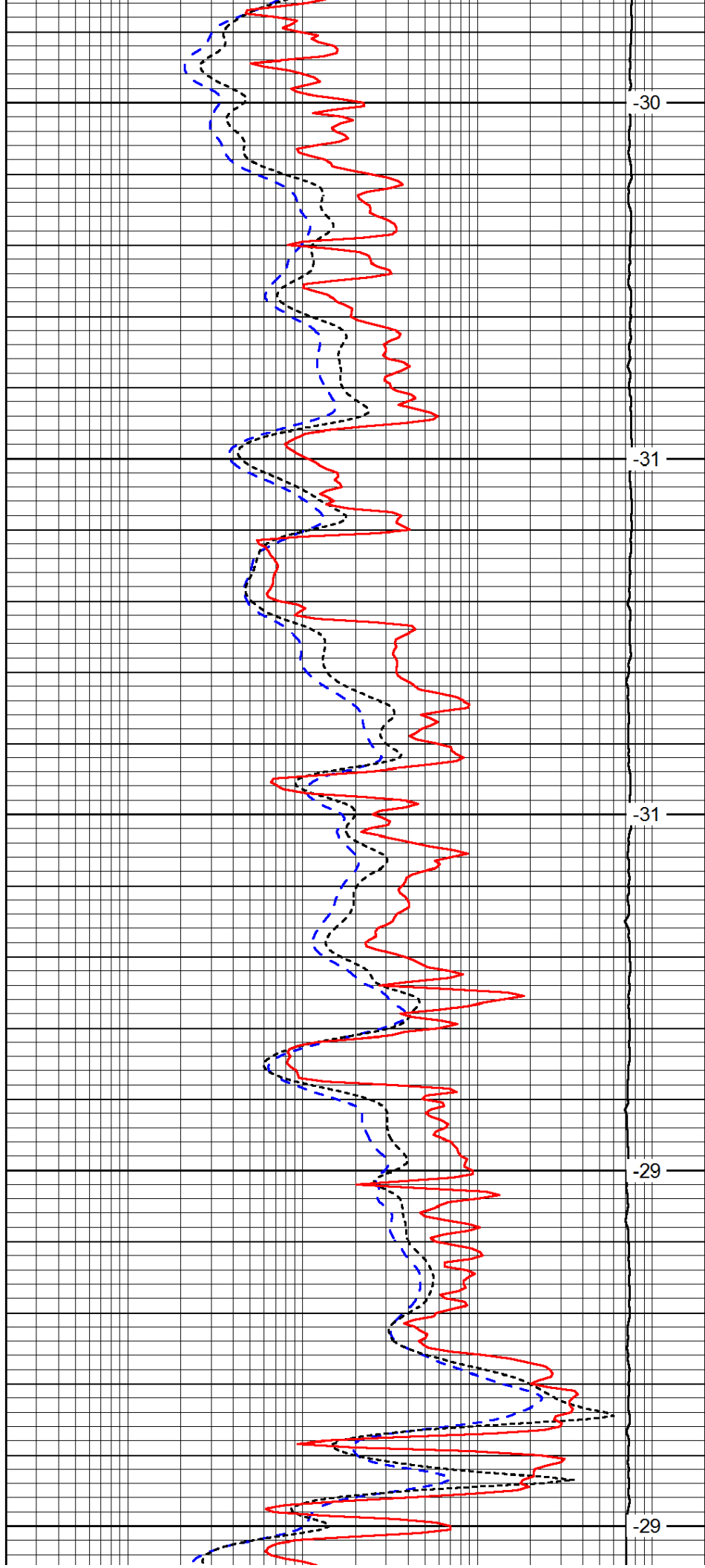
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4000

4050

4100

4150



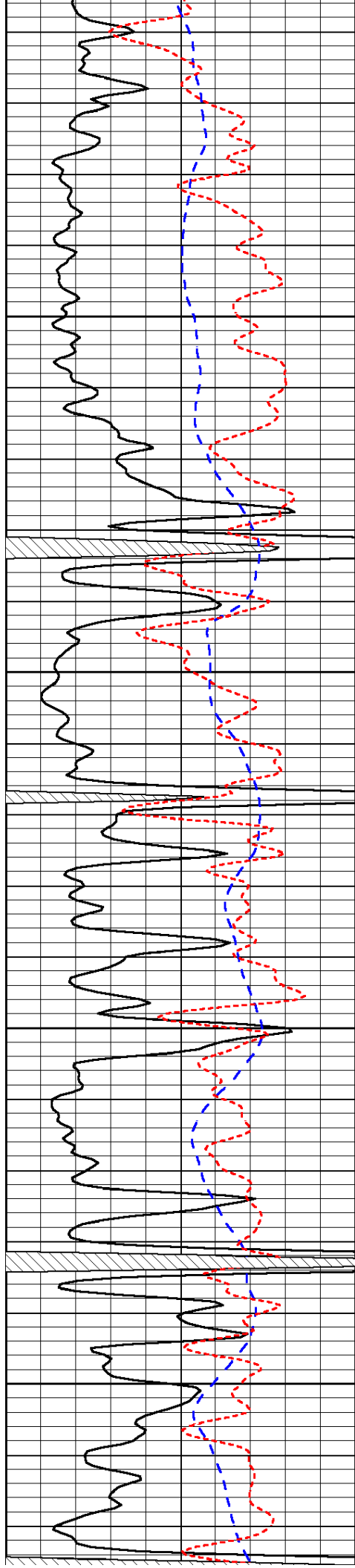
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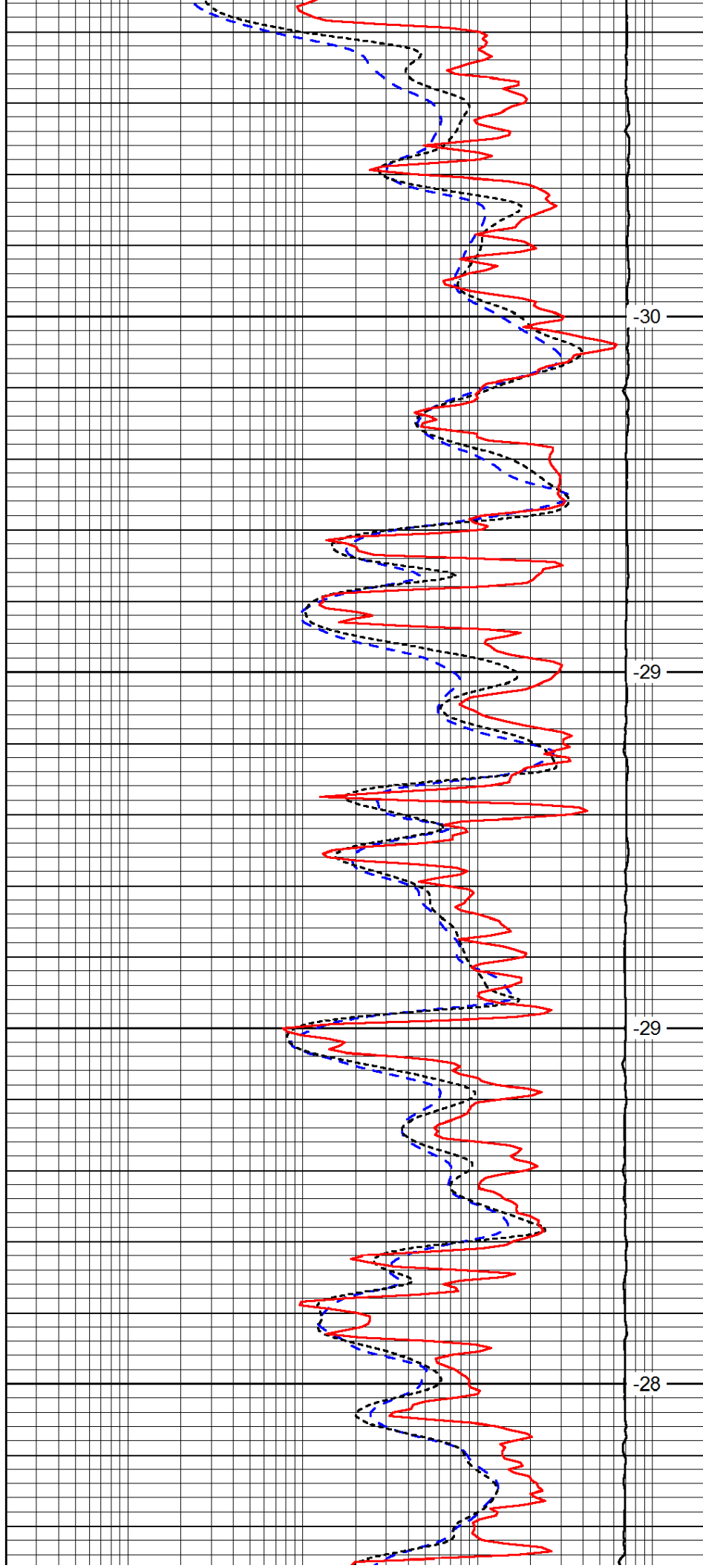


4200

4250

4300

4350

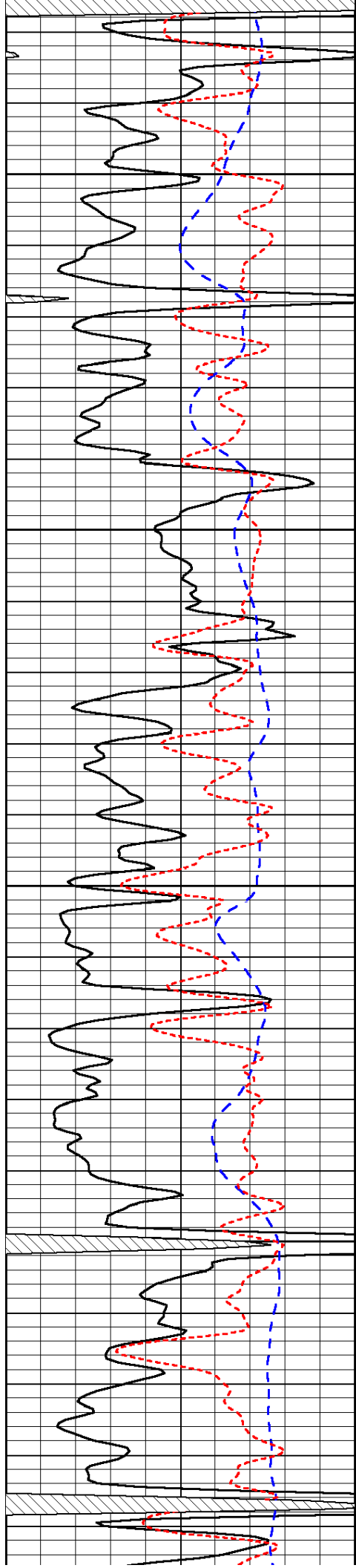


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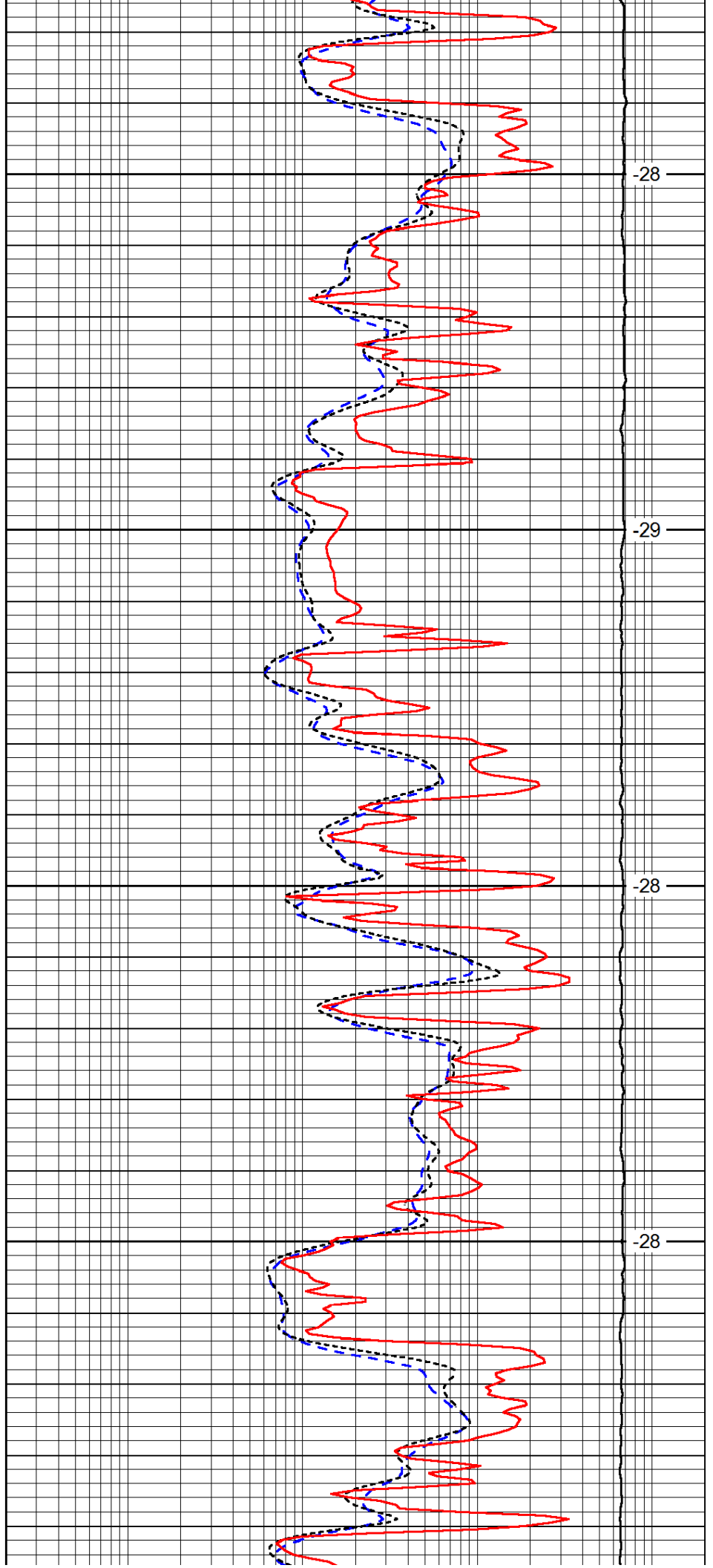


4400

4450

4500

4550

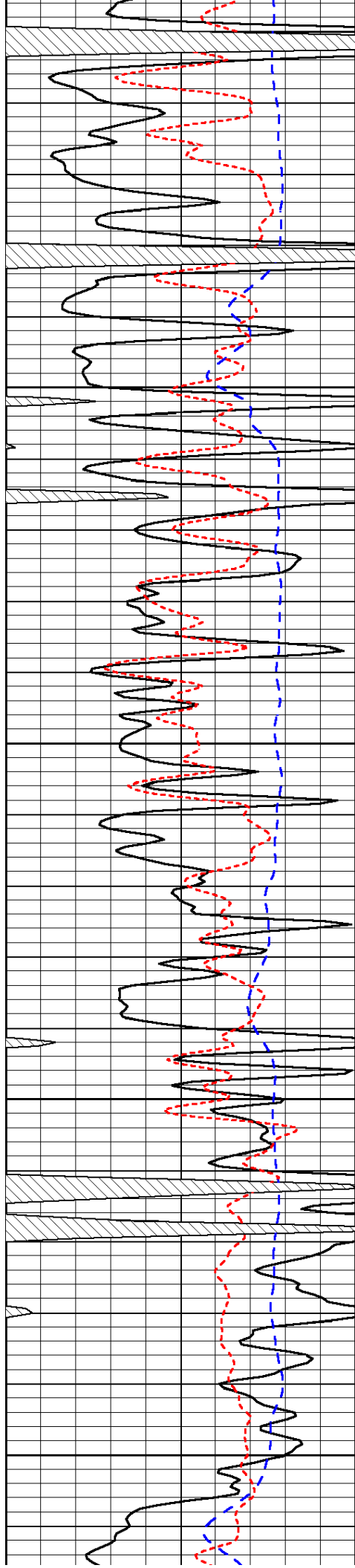


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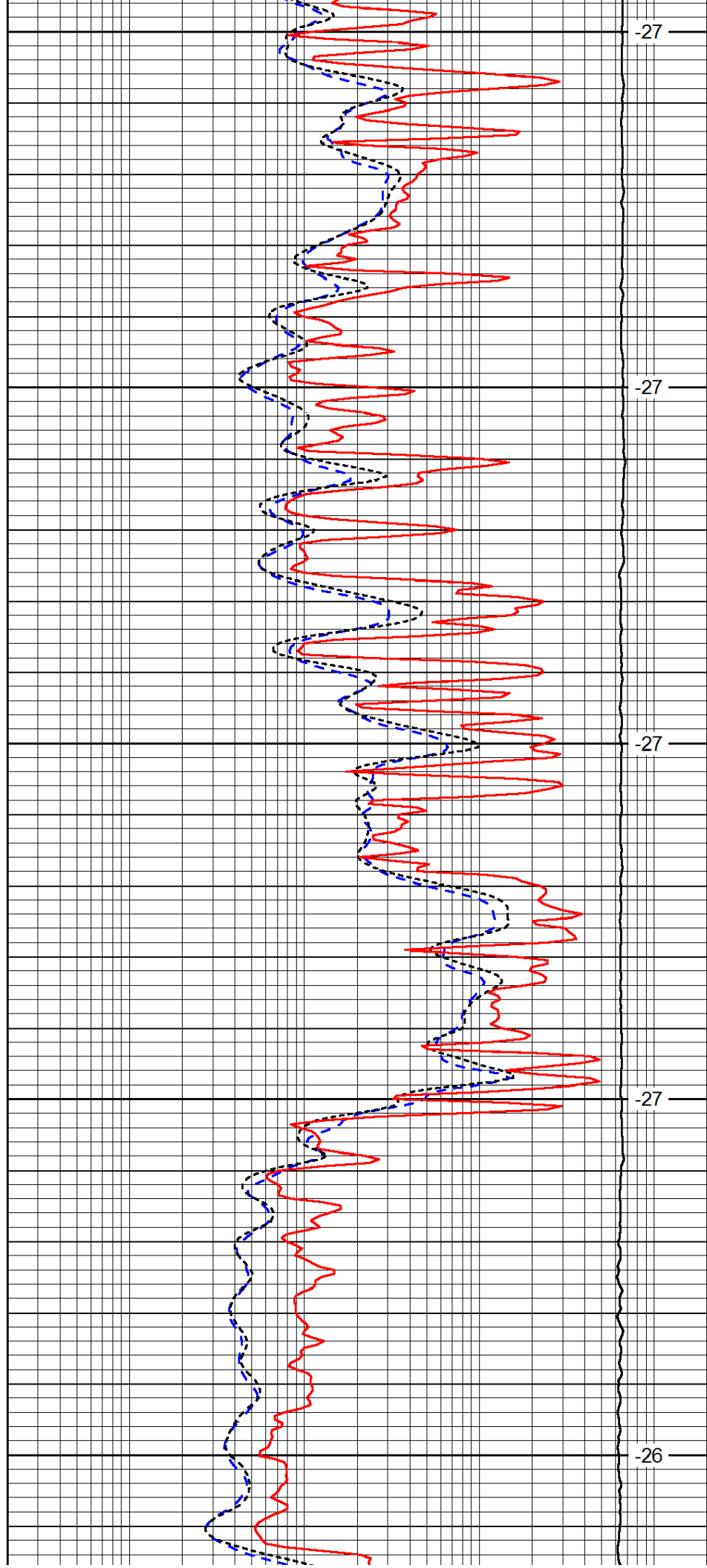
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4700

4750

4800



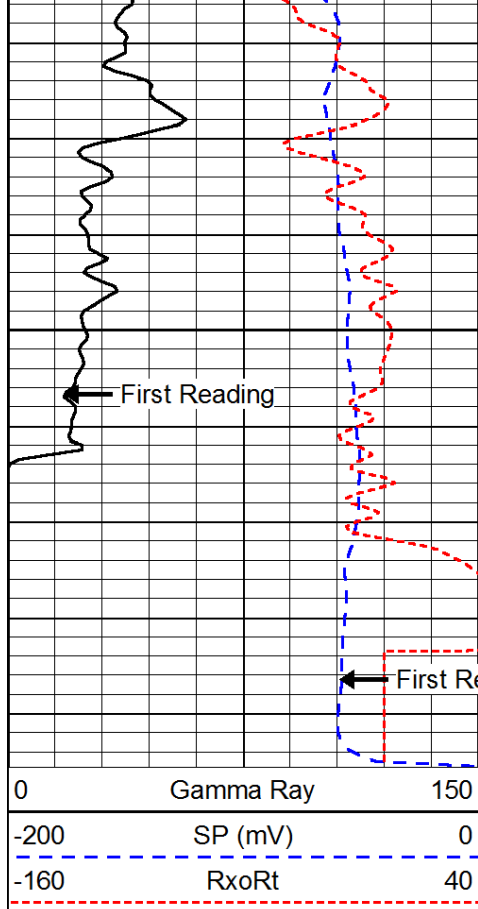
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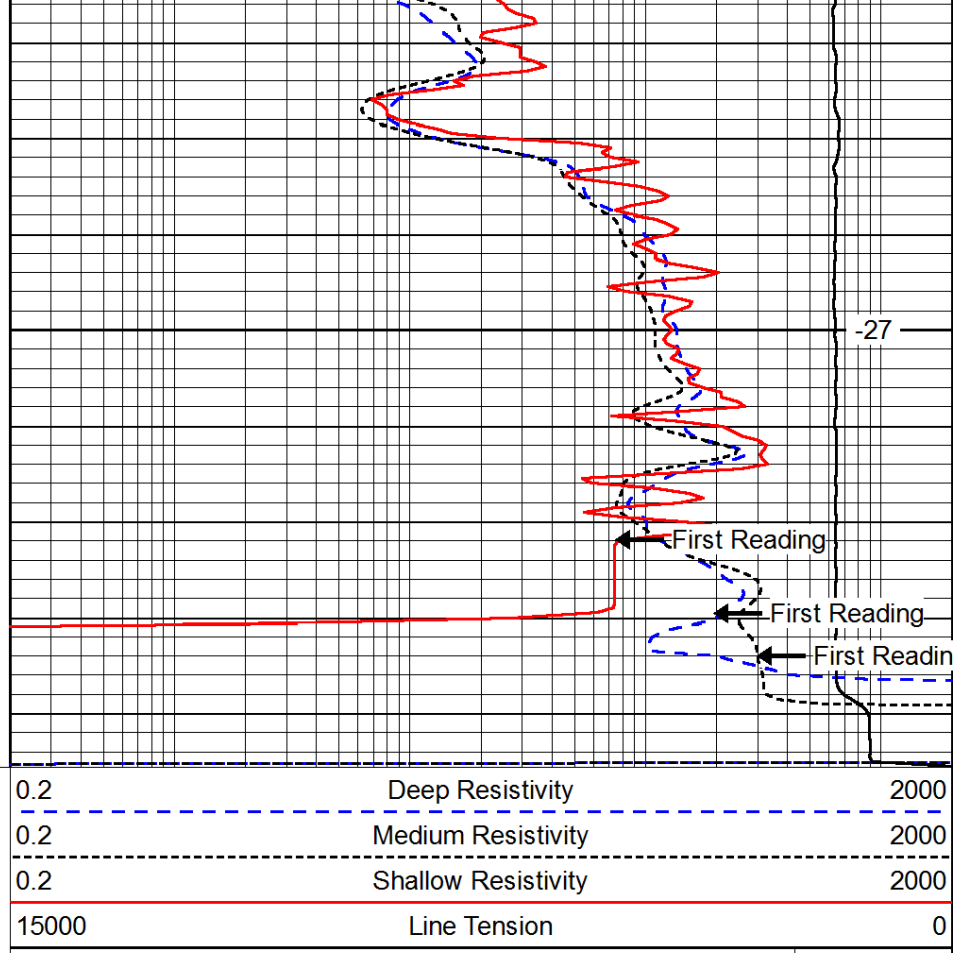
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-26



4850



-27

LSPD