



Pioneer Energy Services

Dual Induction Log

API No.

15-095-22286-00-00

Company Messenger Petroleum, Inc.

Well Molitor 'G' #1

Field Willowdale

County Kingman State Kansas

Location 330' FNL & 2310' FEL

Sec: 14 Twp: 29S Rge: 9W

Other Services
CNL/CDL
MEL

Elevation

K.B. 1709
D.F. 1700
G.L. 1700

Permanent Datum Ground Level Elevation 1700
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 6/2/2014

Run Number One

Depth Driller 4552

Depth Logger 4551

Bottom Logged Interval 4550

Top Log Interval 200

Casing Driller 8.625 @ 222

Casing Logger 222

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4000

Density / Viscosity 9.4 56

pH / Fluid Loss 9.5 10.4

Source of Sample Flowline

Rm @ Meas. Temp 0.44 @ 82

Rmf @ Meas. Temp 0.33 @ 82

Rmc @ Meas. Temp 0.59 @ 82

Source of Rmf / Rmc Charts

Rm @ BHT 0.29 @ 124

Operating Rig Time 4 Hours

Max Rec. Temp. F 124

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Jon Messenger

<<< Fold Here >>>

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

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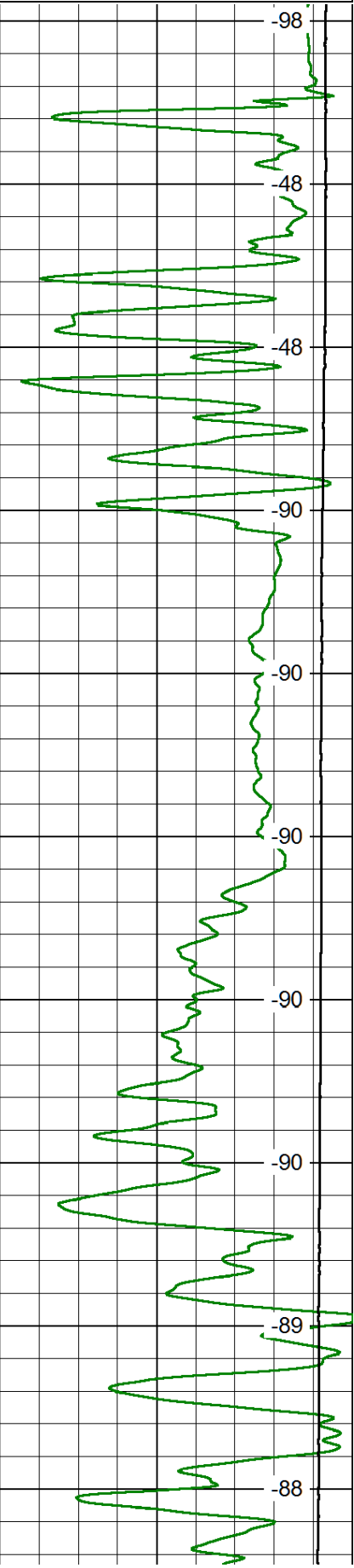
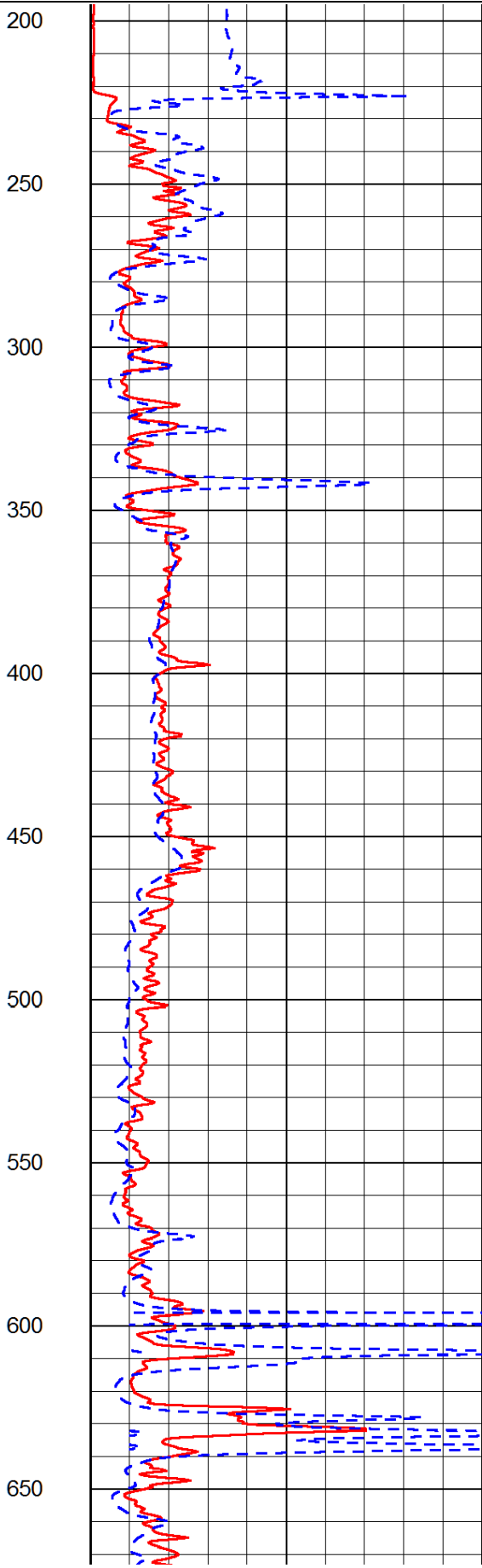
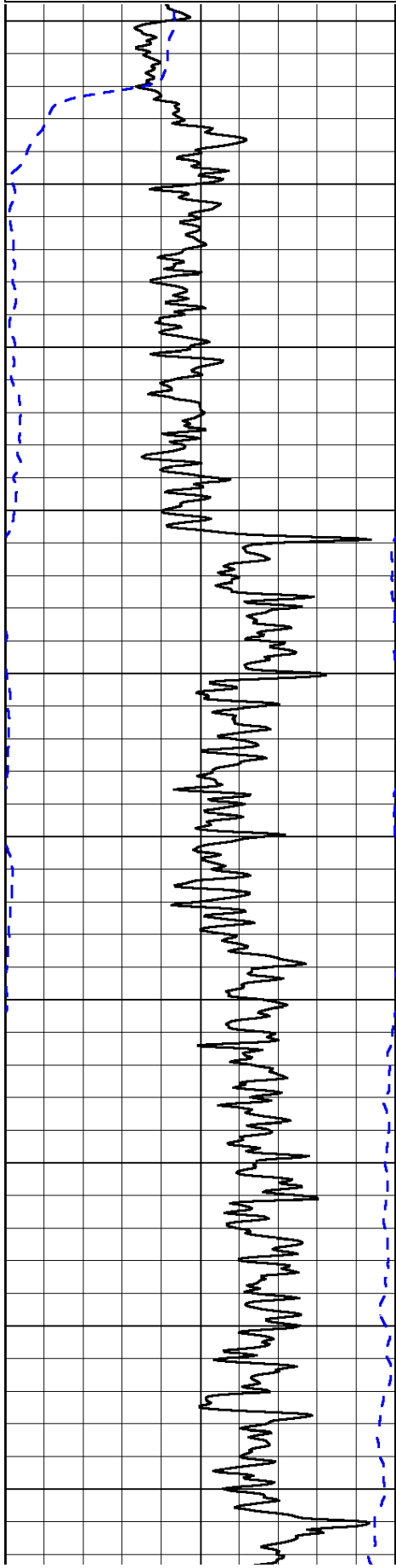
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6 North to 80 Rd, 1/2 East,
South into

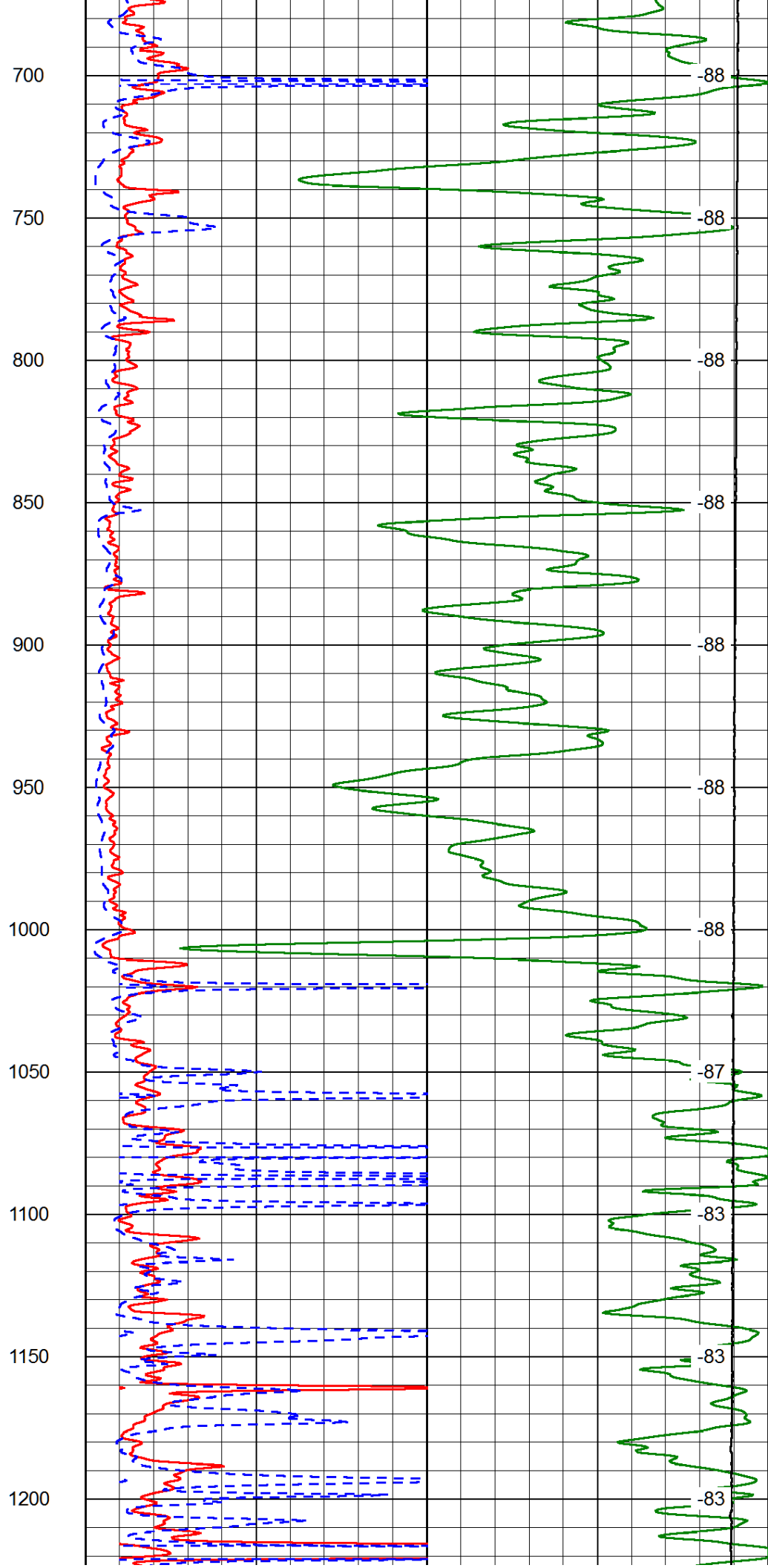
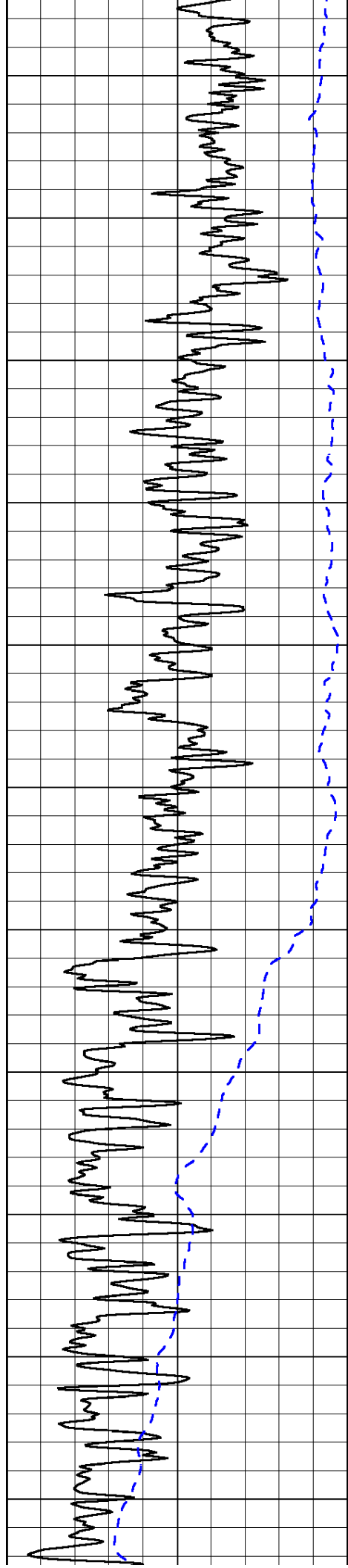
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Presentation Format: dil2in
Dataset Creation: Tue Jun 03 03:36:28 2014
Charted by: Depth in Feet scaled 1:600

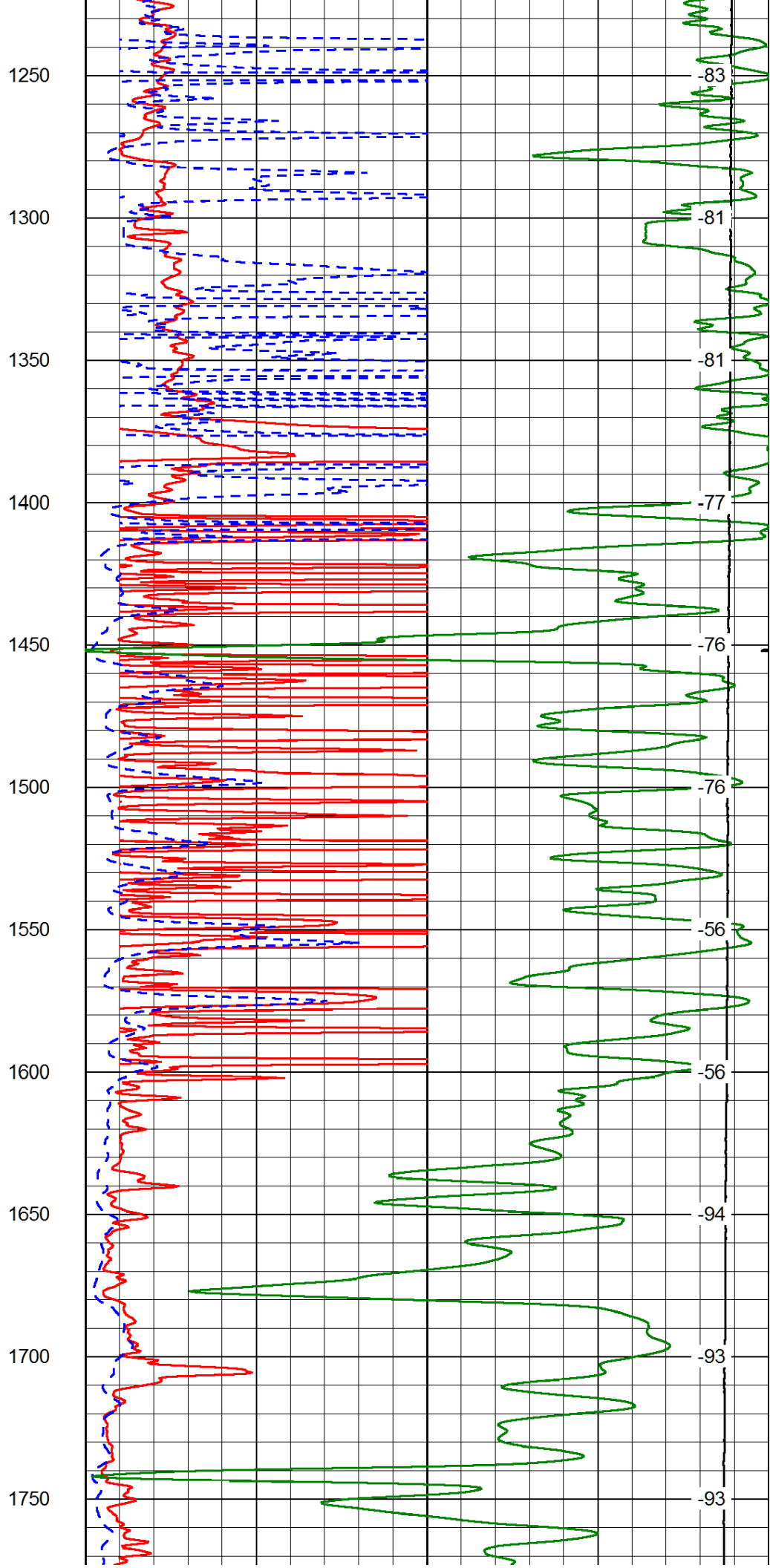
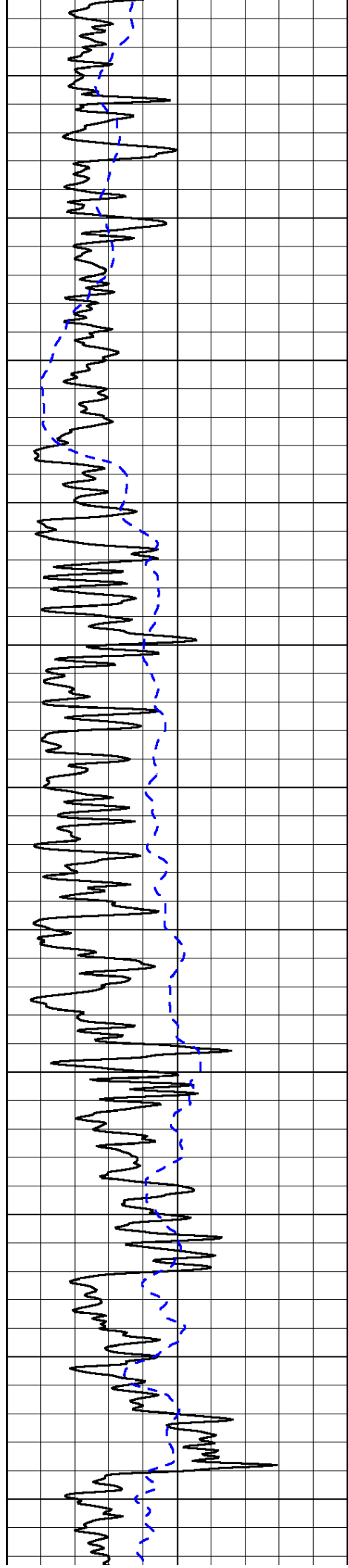
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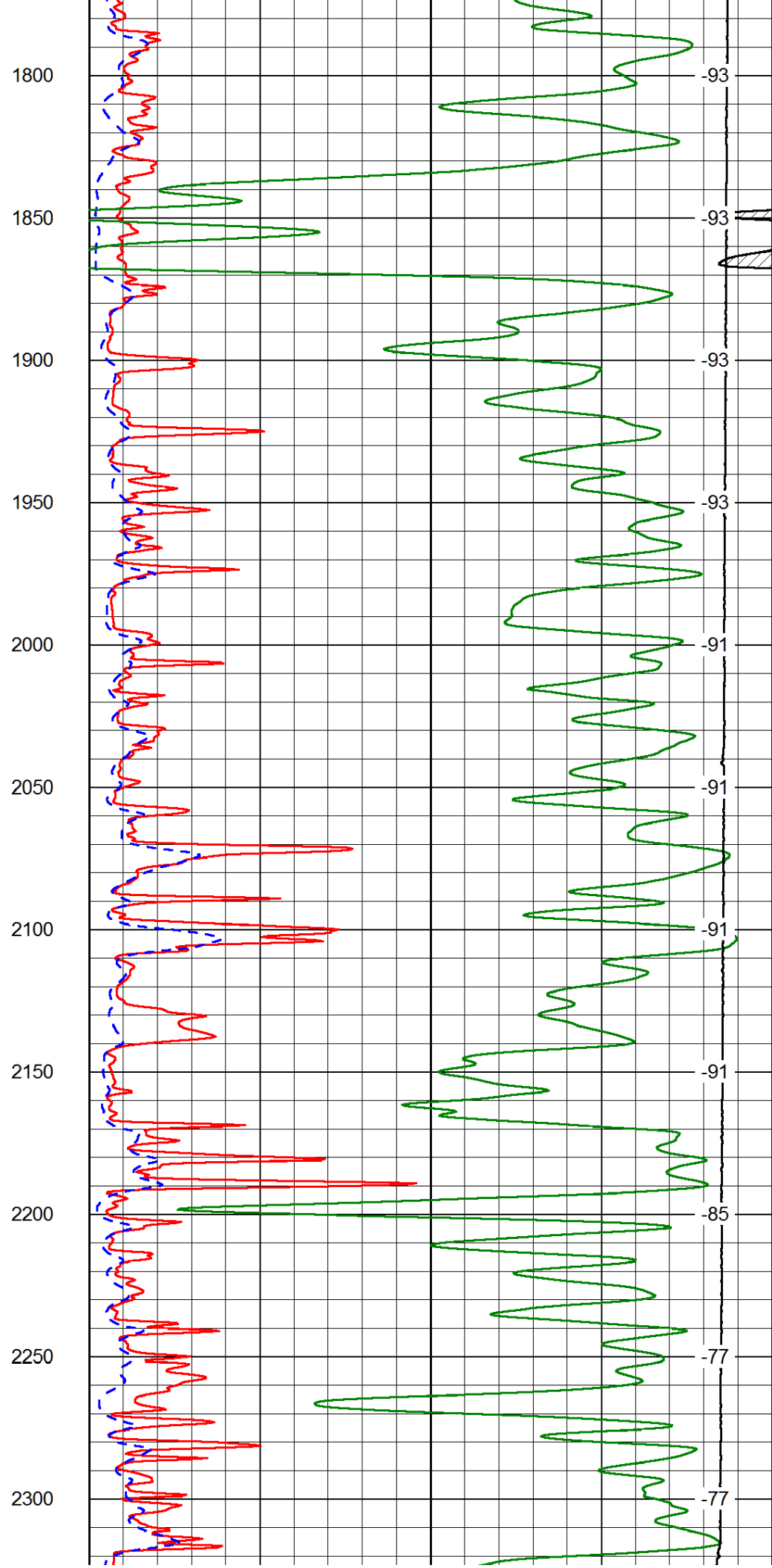
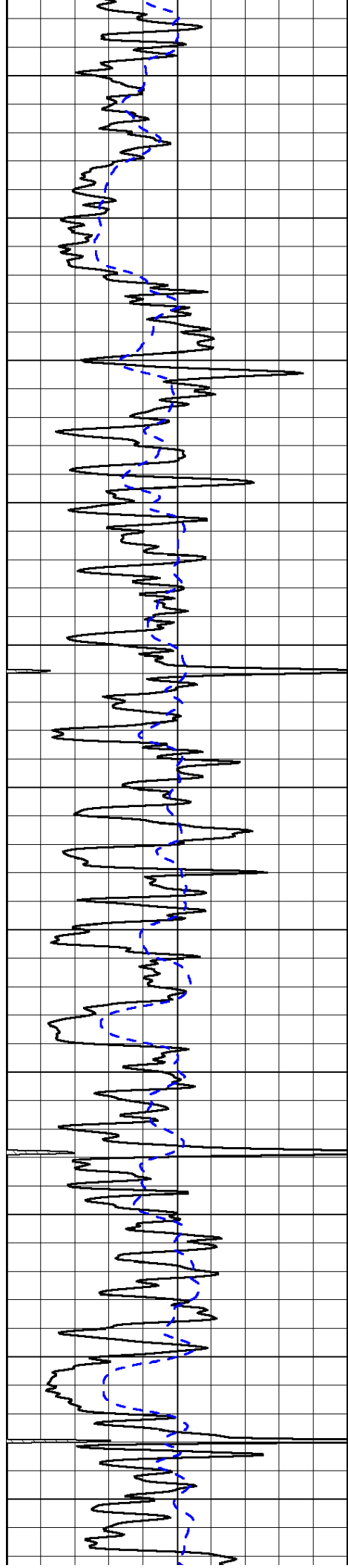
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

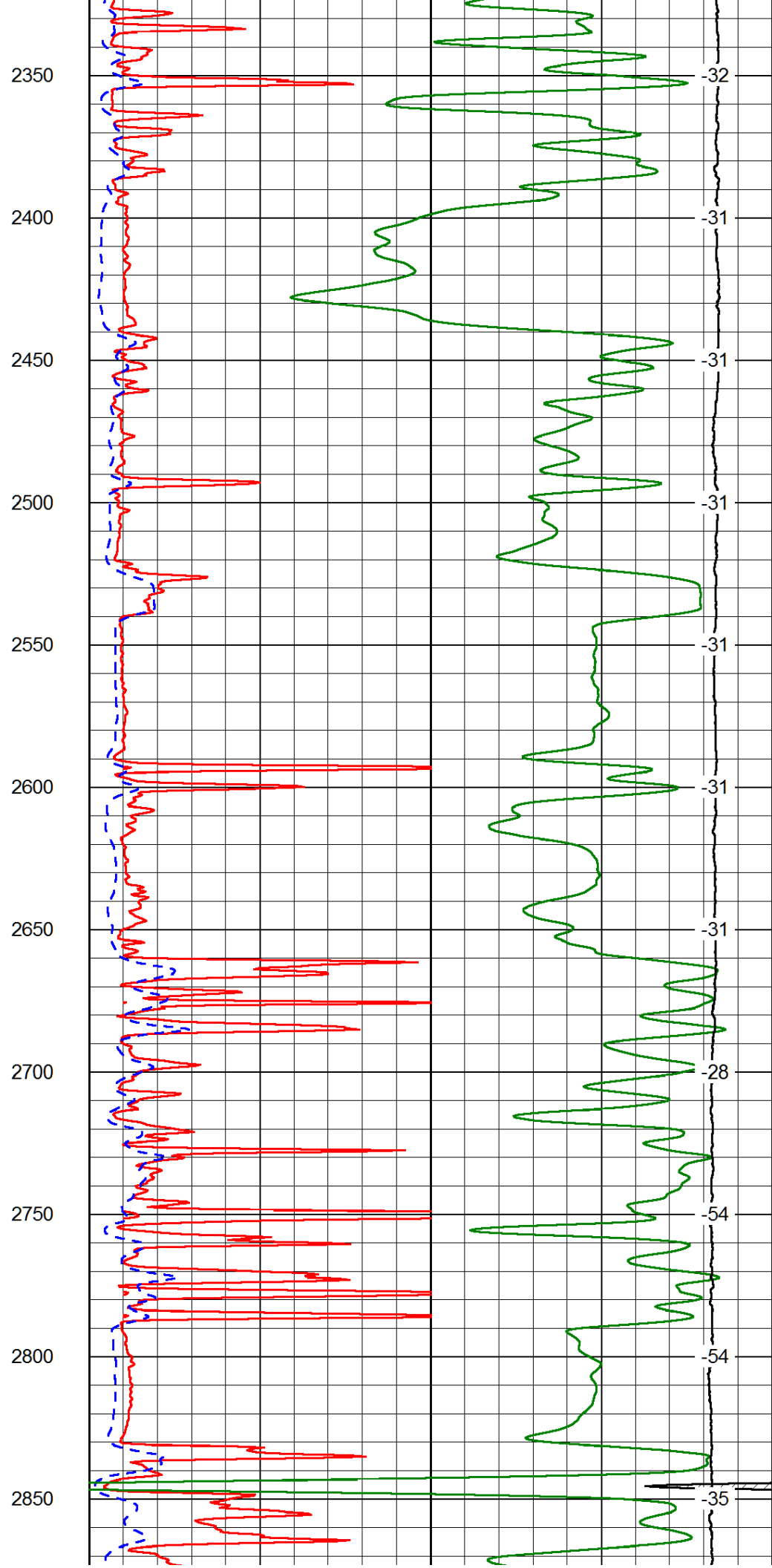
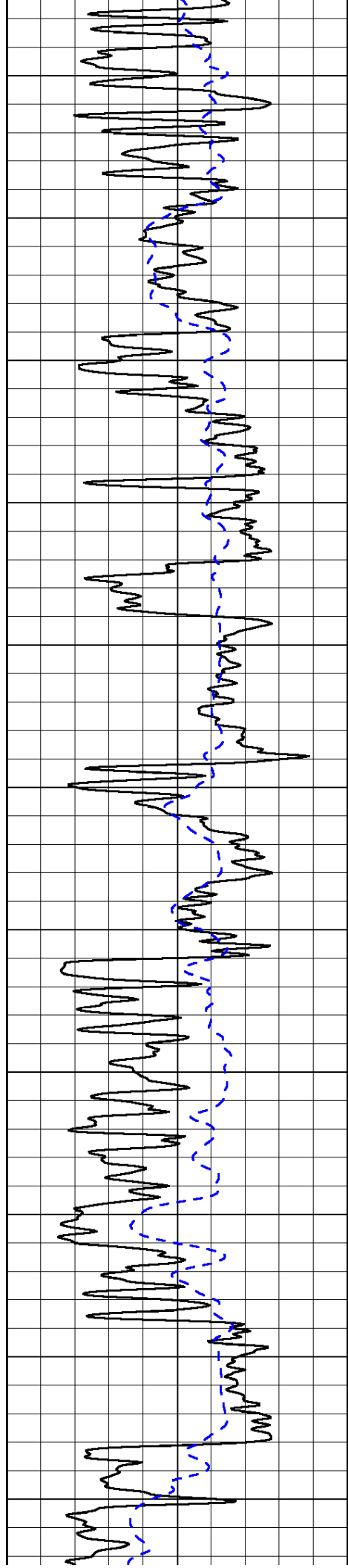
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50	Deep Resistivity	500

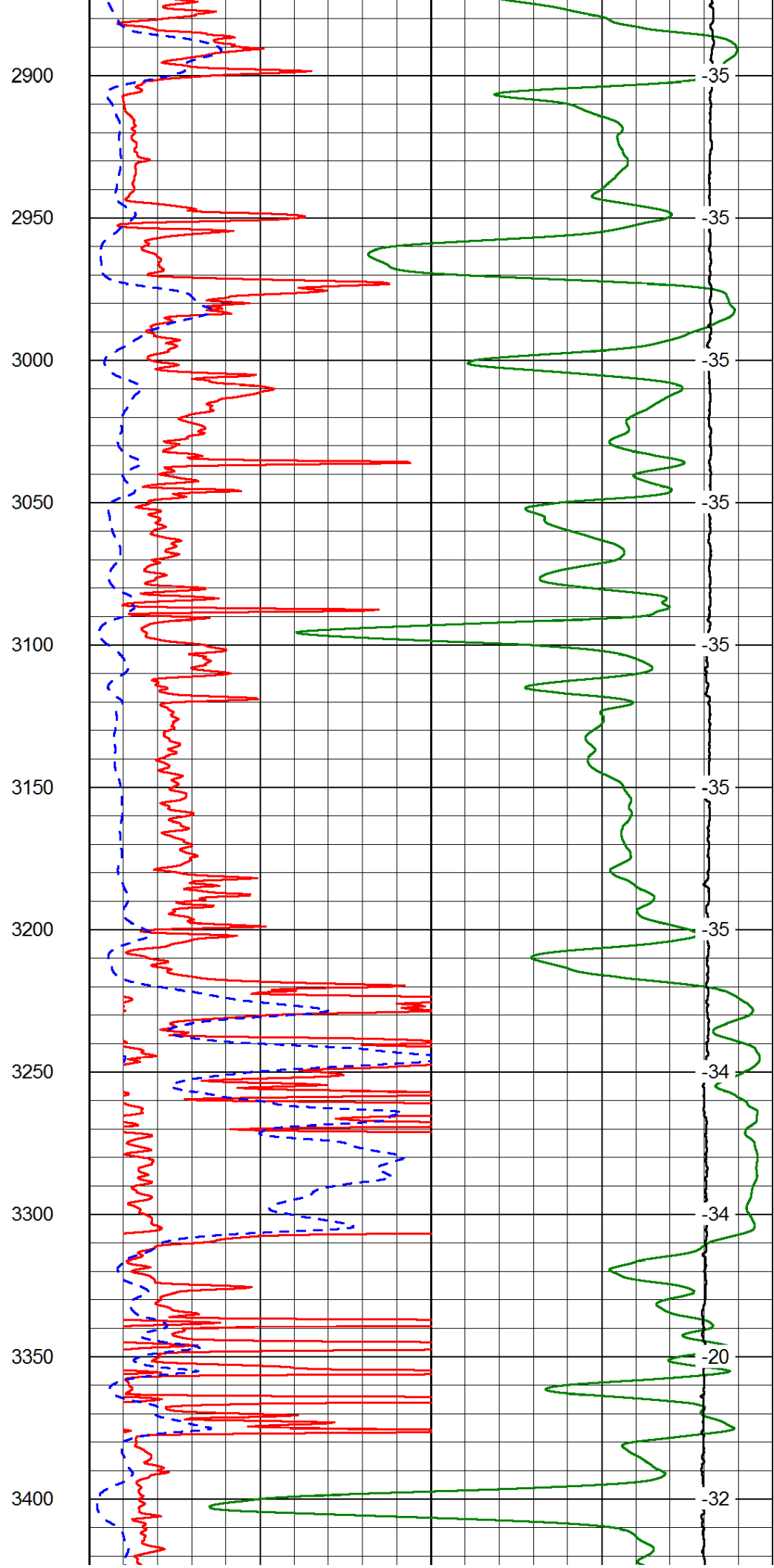
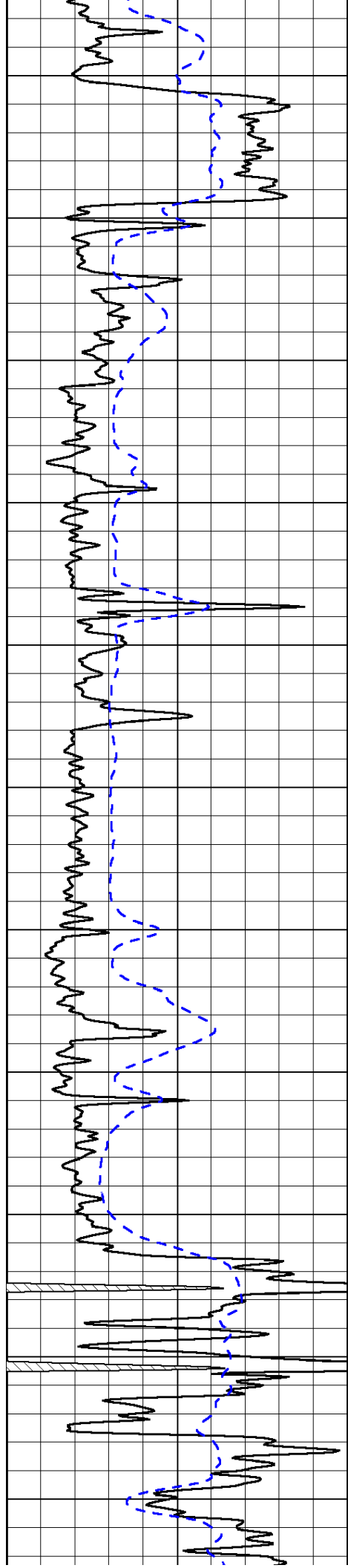


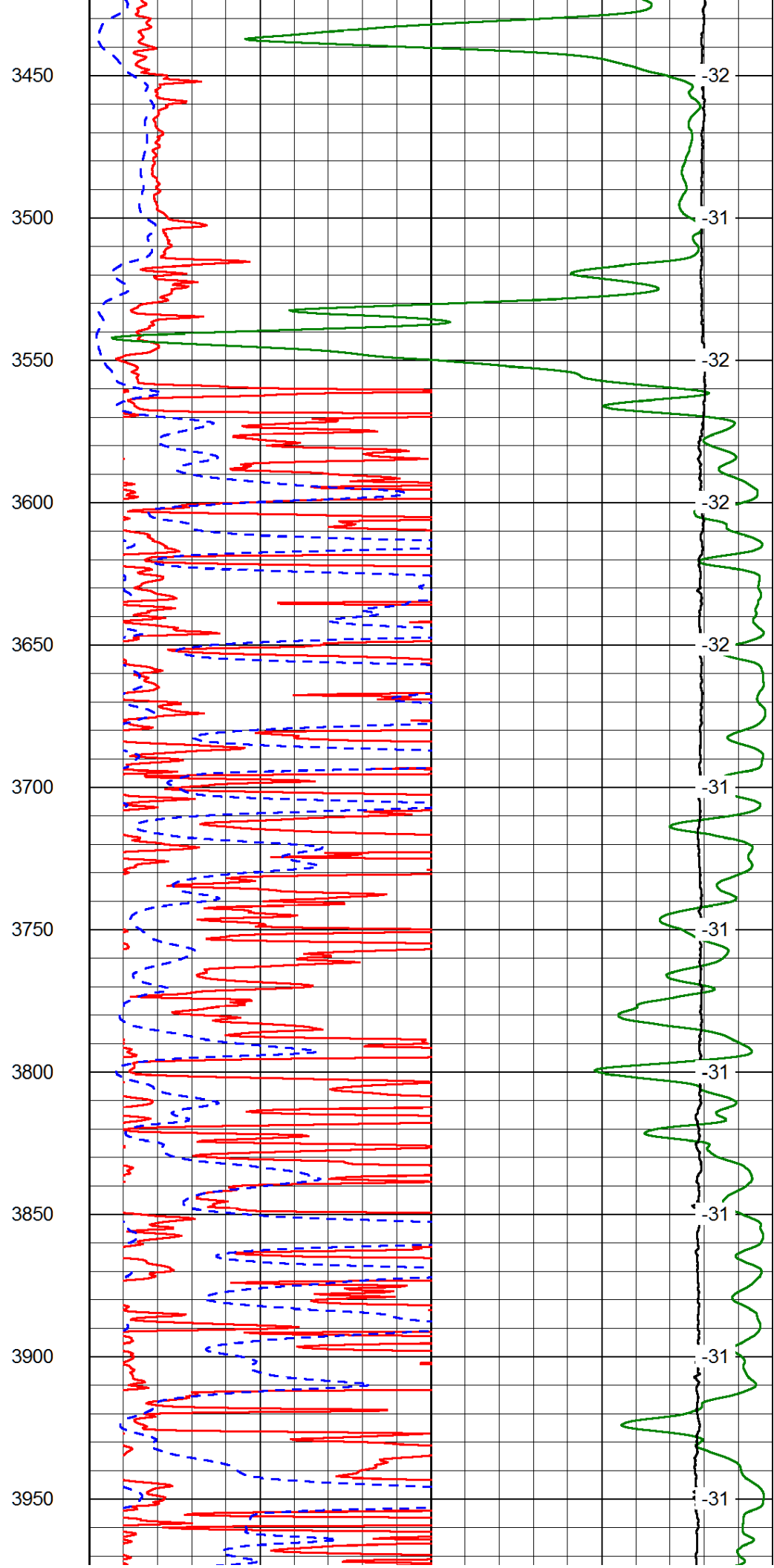
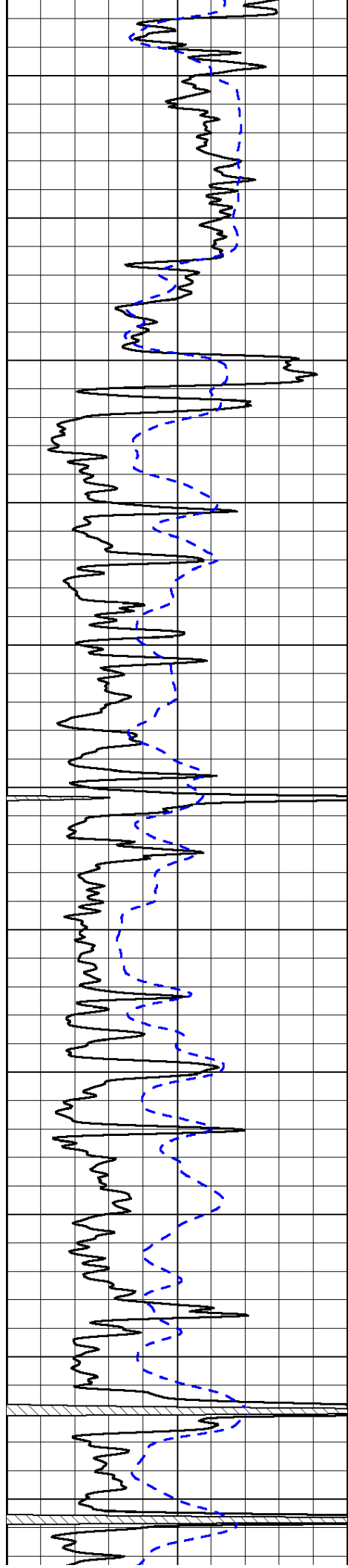


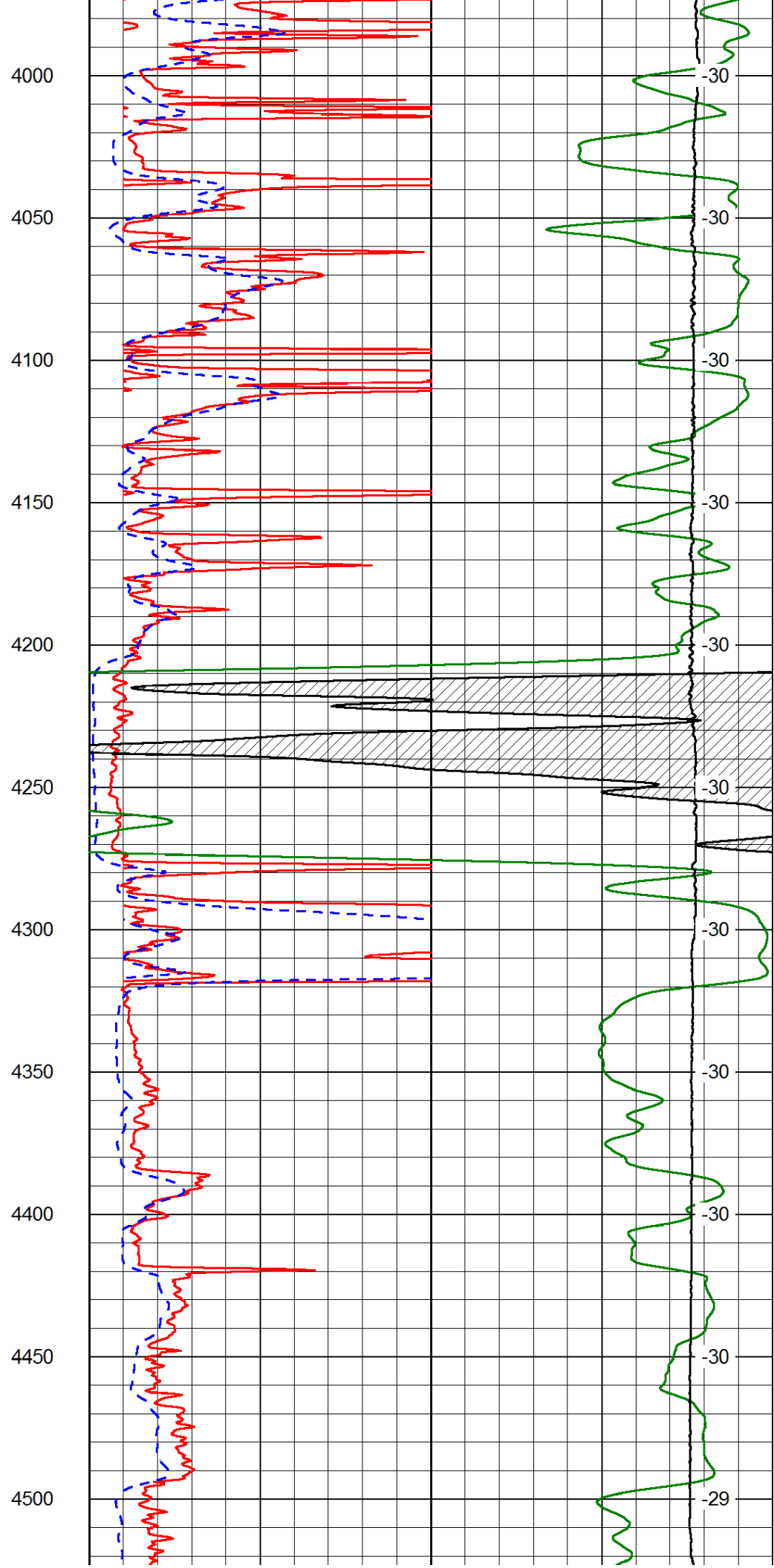
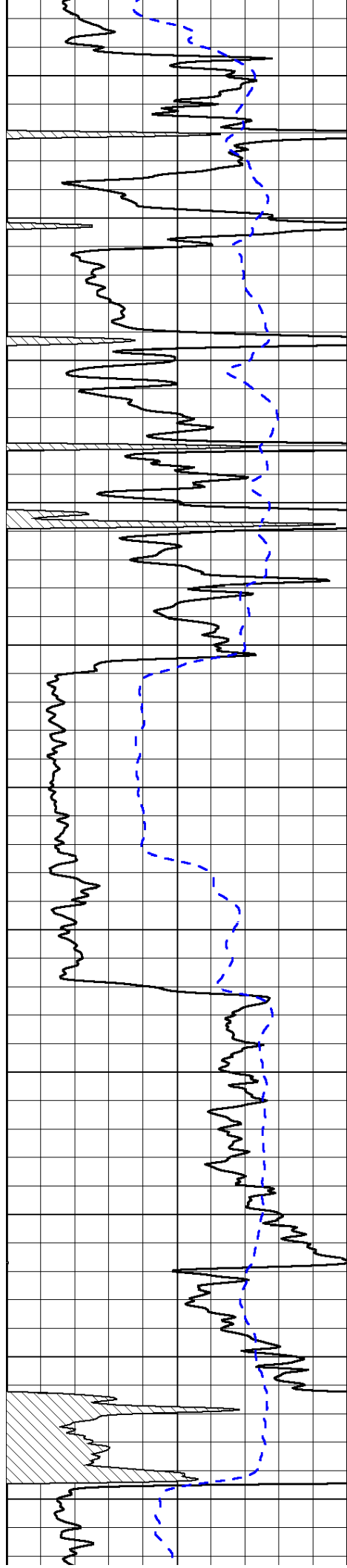


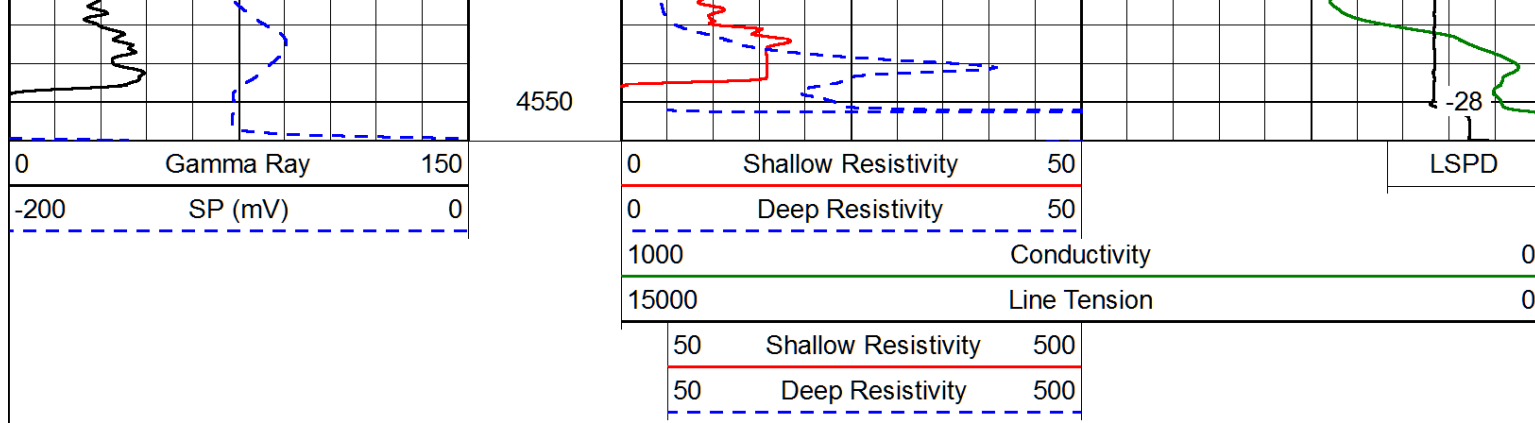




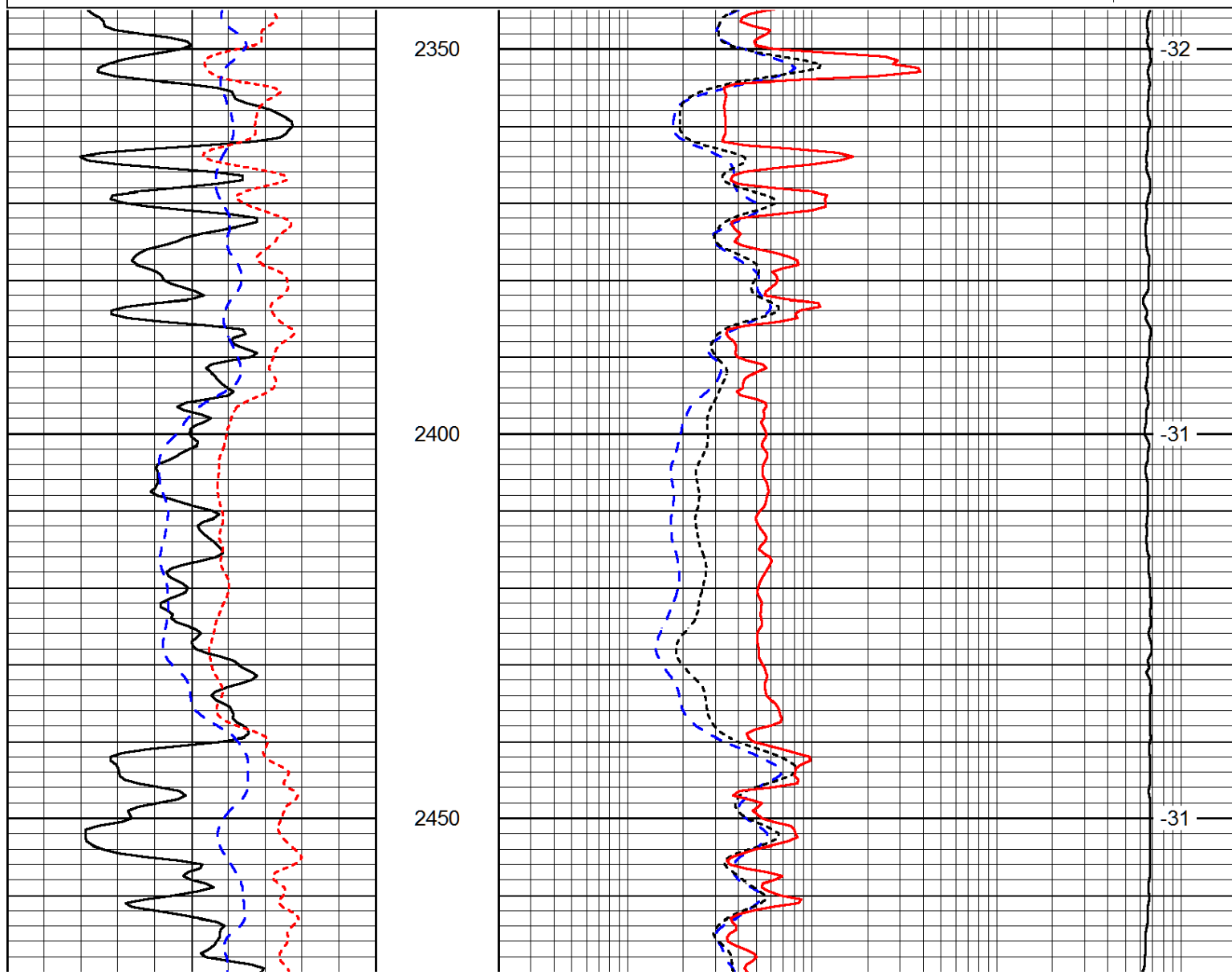
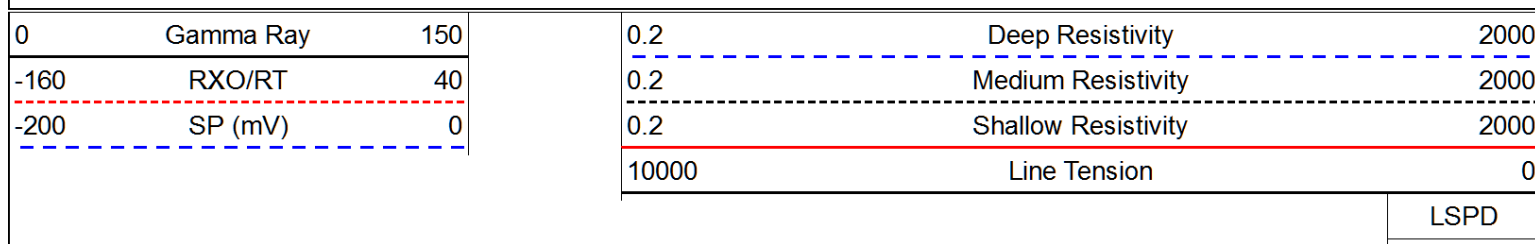


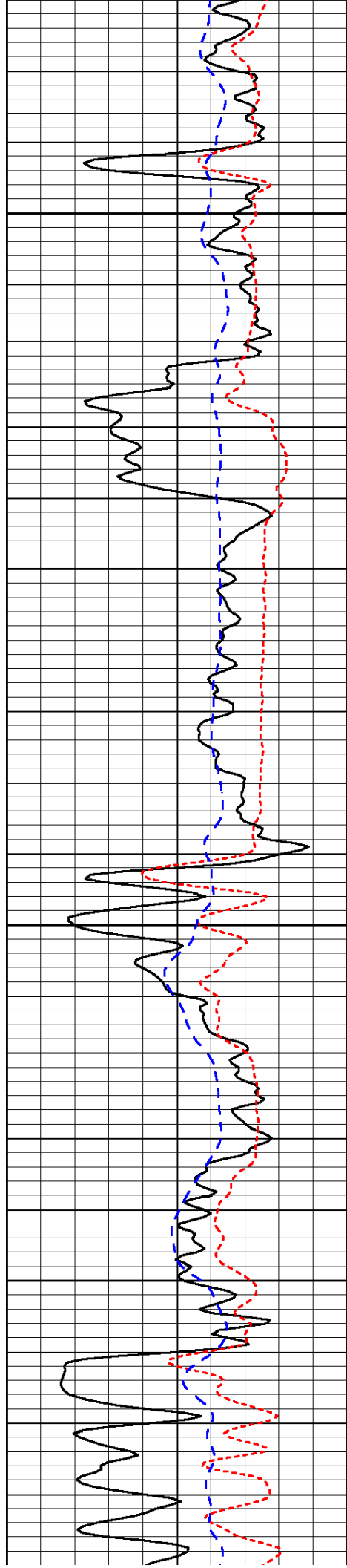






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 Presentation Format: dil
 Dataset Creation: Tue Jun 03 03:36:28 2014
 Charted by: Depth in Feet scaled 1:240



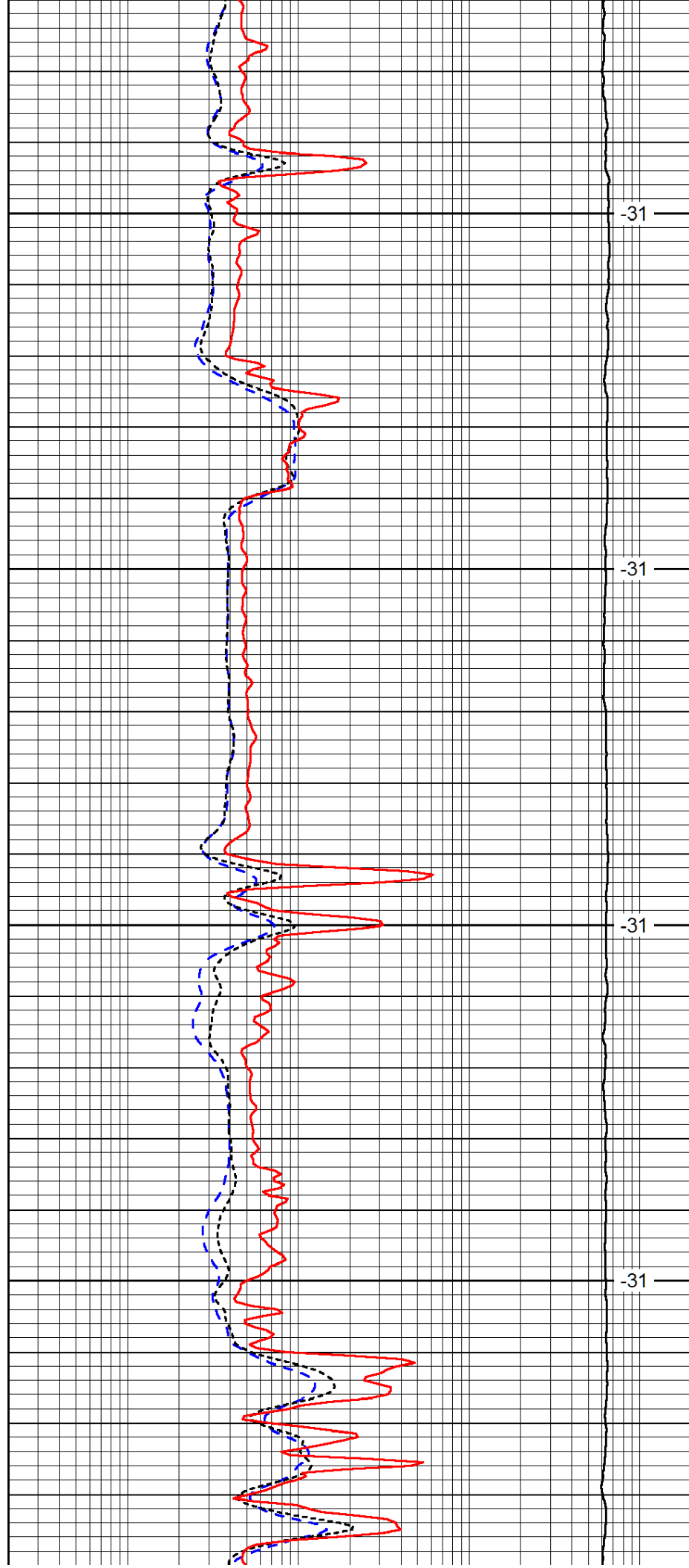


2500

2550

2600

2650

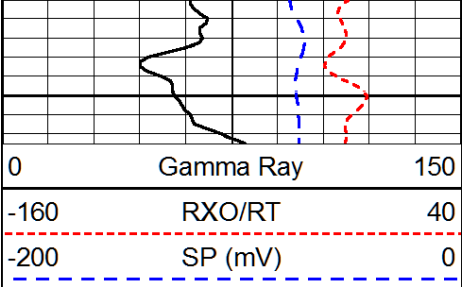


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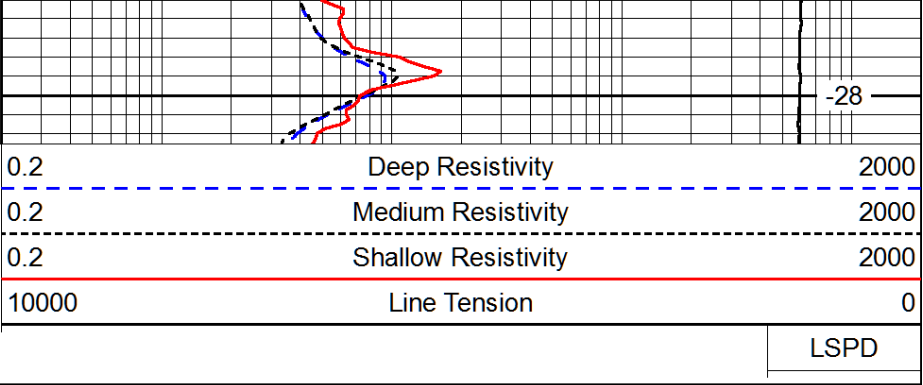
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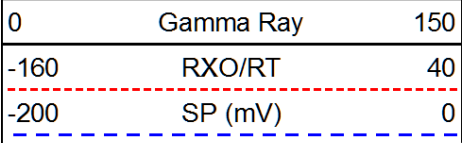
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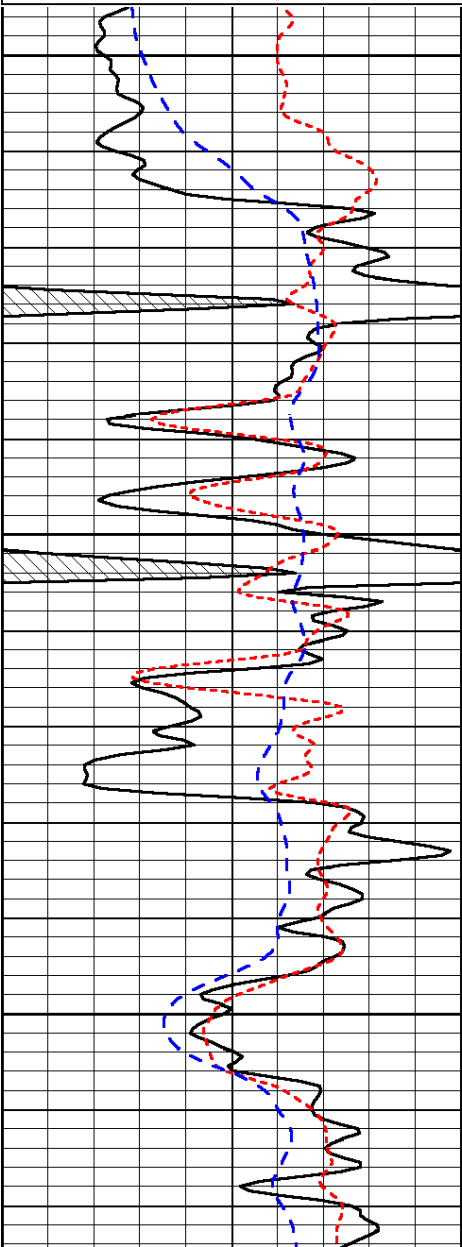
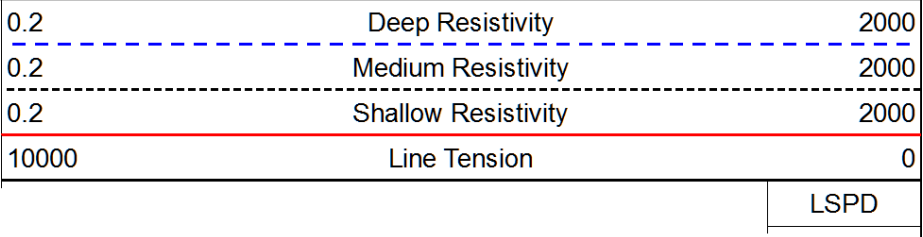
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Database File: messenger_molitor_g_1hd.db
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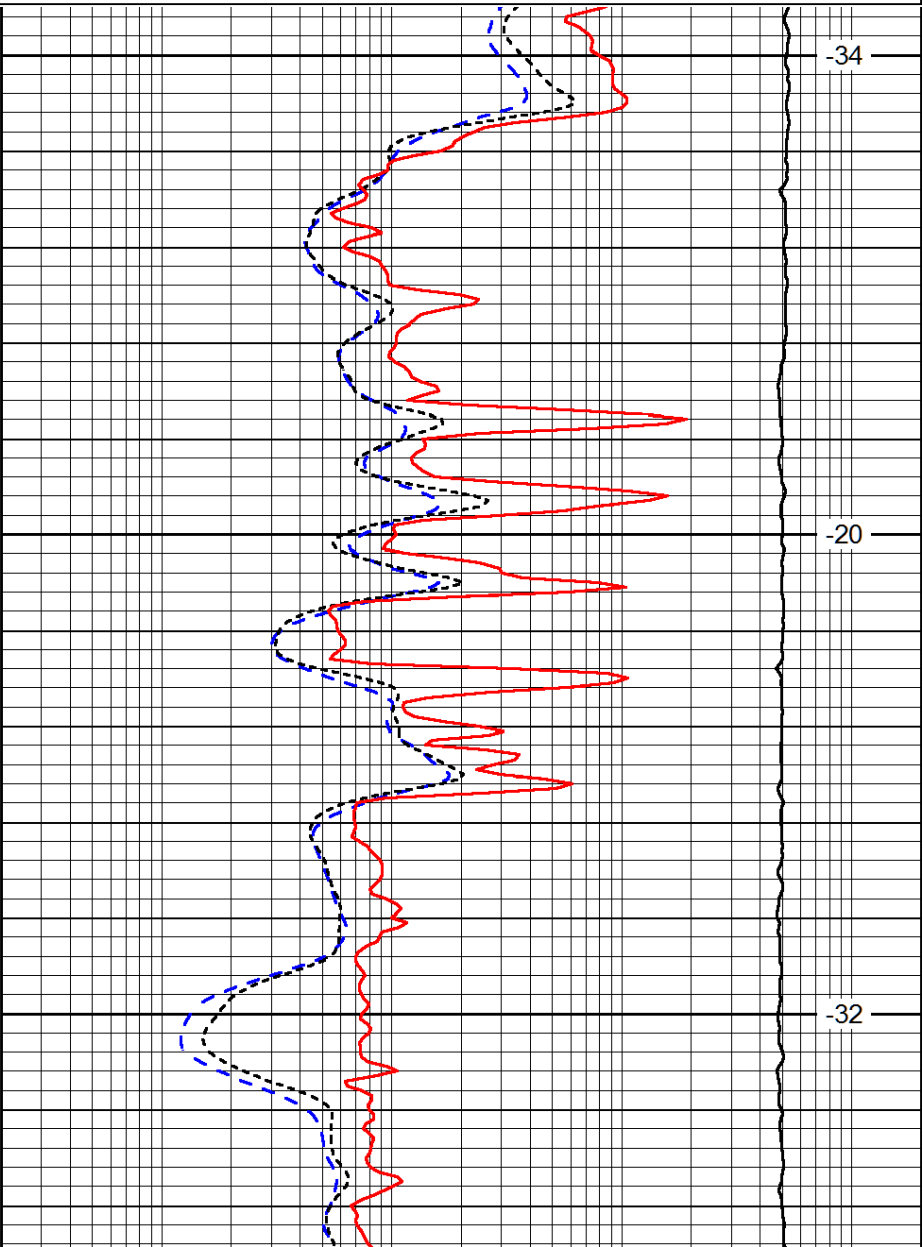


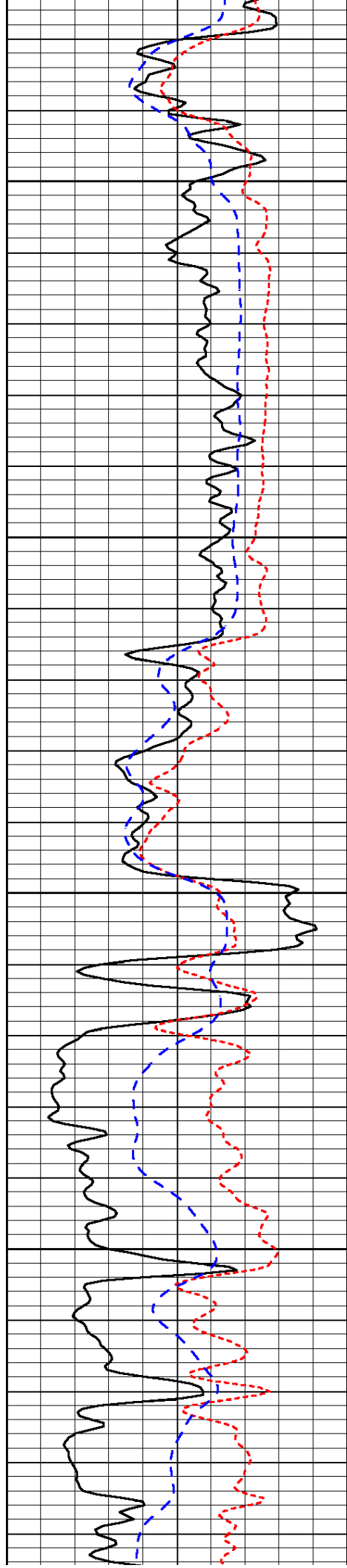
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3350

3400



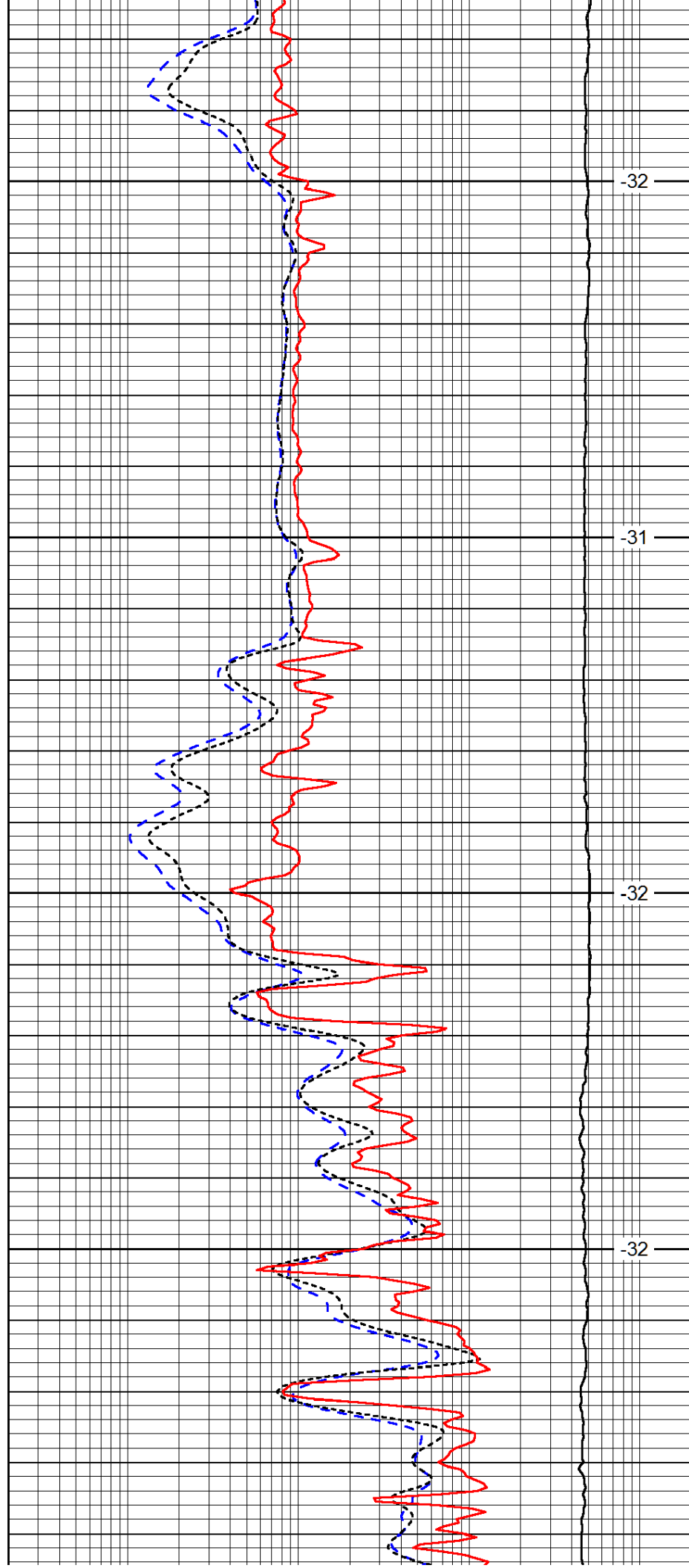


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3500

3550

3600

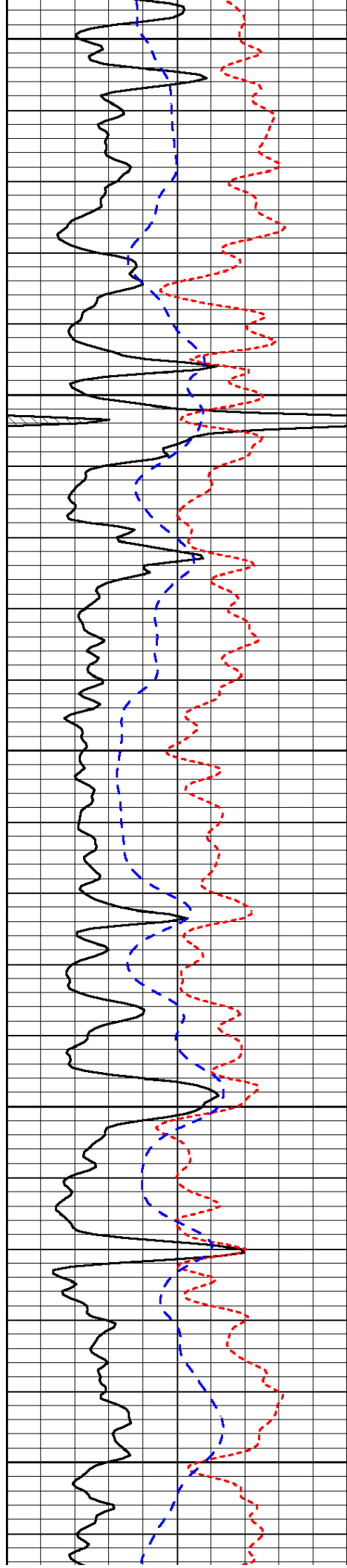


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-32

-32



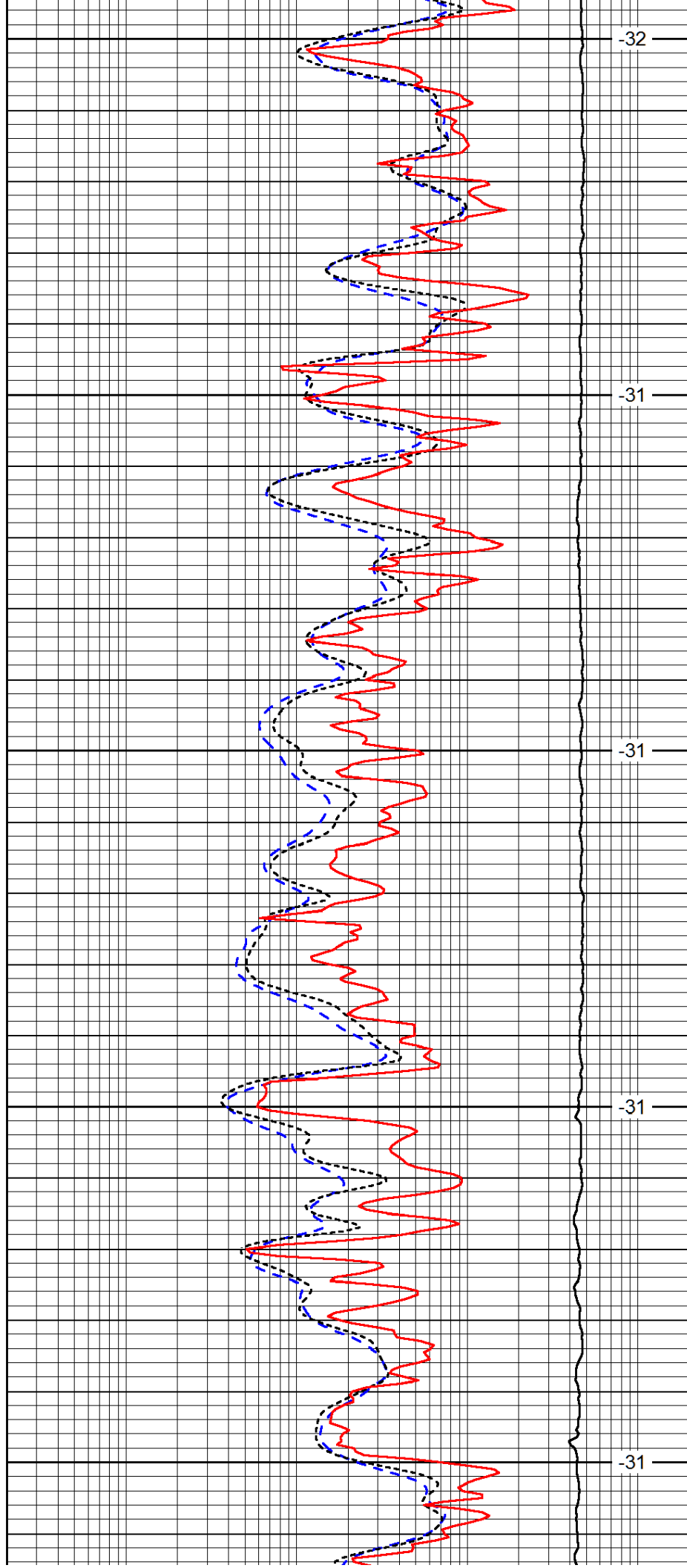
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3700

3750

3800

3850



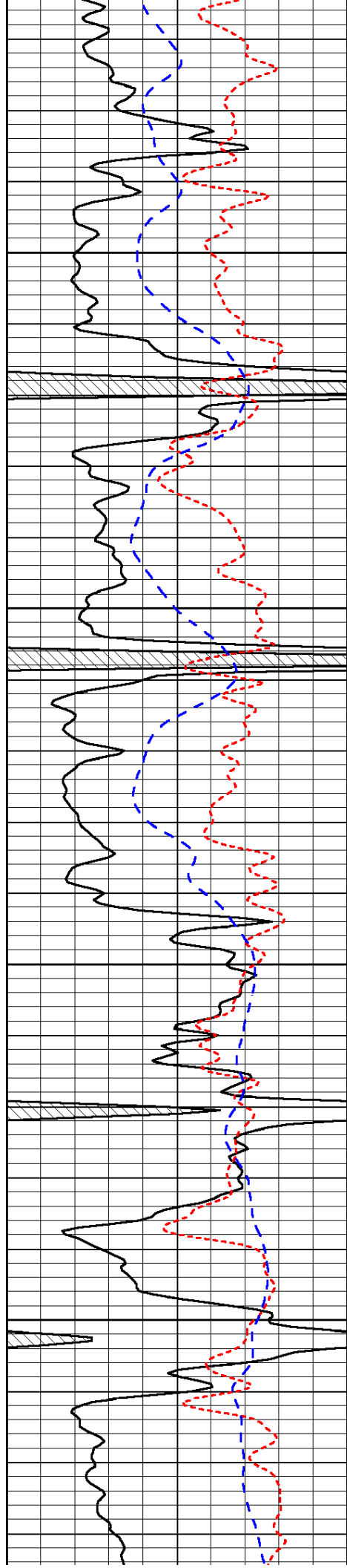
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-31

-31

-31

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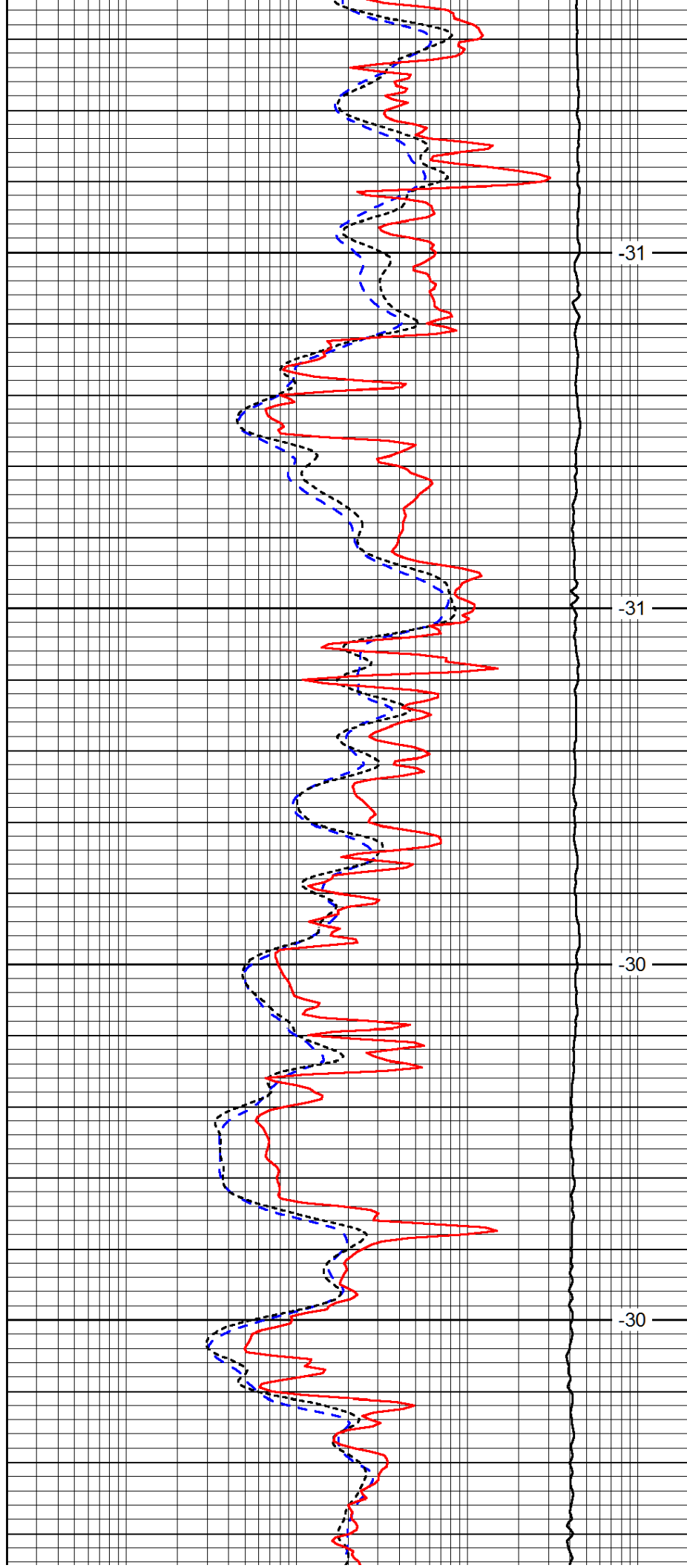


3900

3950

4000

4050

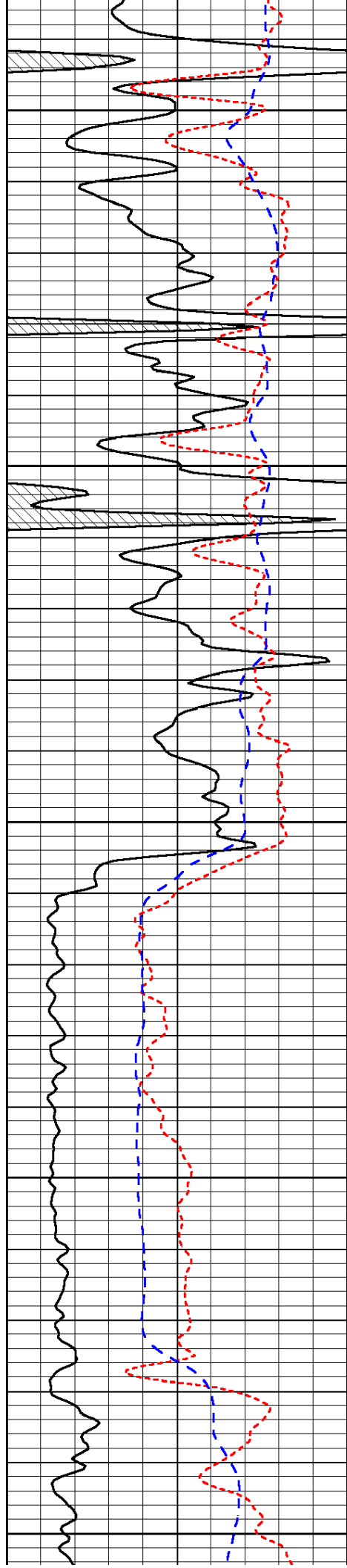


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-30

-30



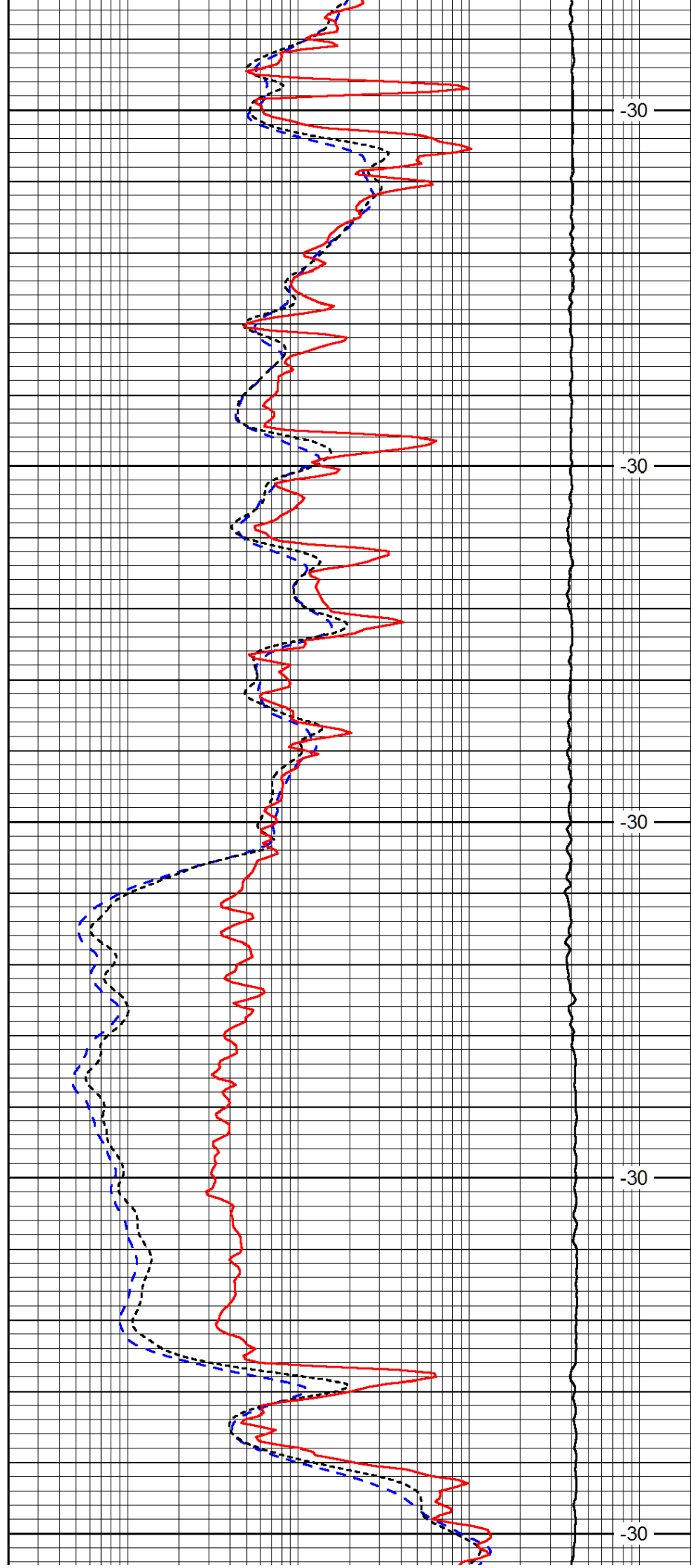
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4150

4200

4250

4300



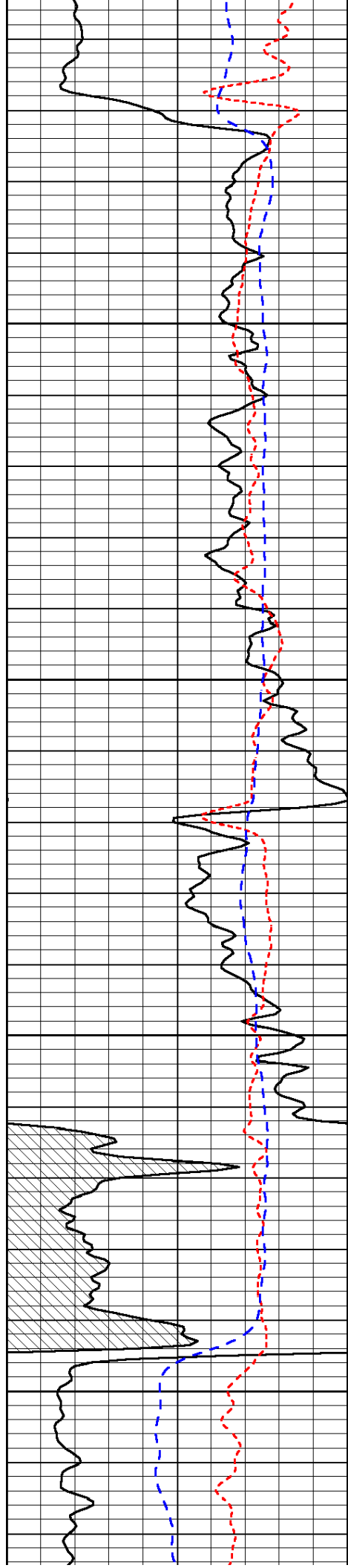
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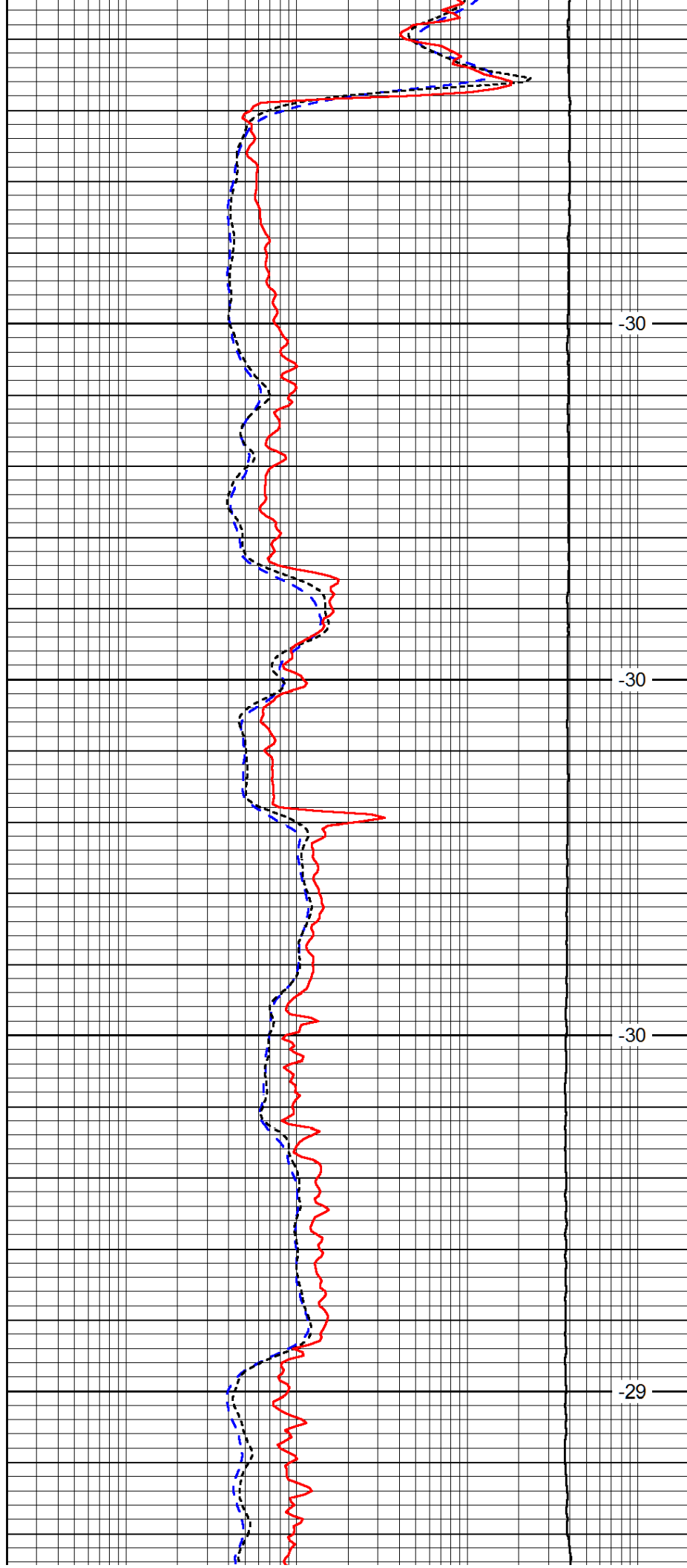


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4400

4450

4500

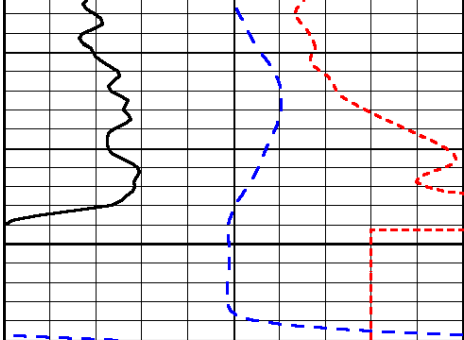


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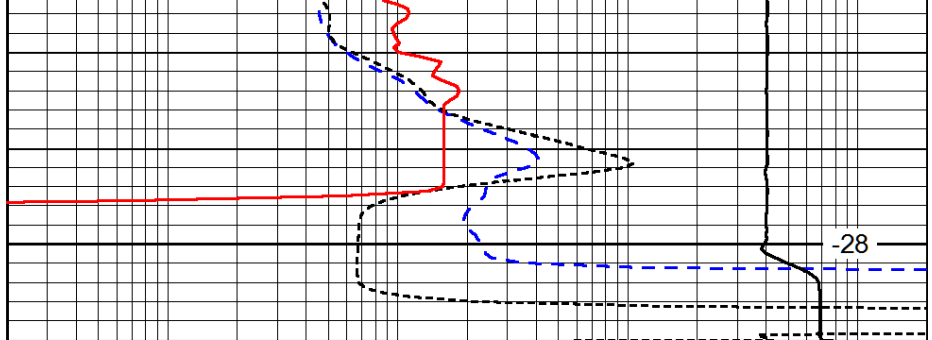
-30

-29



0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0

4550



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD