



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.

15-101-22,365-00-00

Company Larson Engineering, Inc.

Well L. York No. 1-13

Field Paris

County Lane State

Kansas

Location 2294' FSL & 704' FWL

Other Services
CNL/CDL
MEL

Sec: 13 Twp: 19 S Rge: 29 W

Permanent Datum Ground Level Elevation 2814
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 2821
D.F.
G.L. 2814

Date 4/30/2012

Run Number One

Depth Driller 4685

Depth Logger 4684

Bottom Logged Interval 4683

Top Log Interval 250

Casing Driller 8.625 @ 260

Casing Logger 256

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2,500

Density / Viscosity 9.4 62

pH / Fluid Loss 9.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp .70 @ 58

Rmf @ Meas. Temp .53 @ 58

Rmc @ Meas. Temp .95 @ 58

Source of Rmf / Rmc Charts

Rm @ BHT .28 @ 125

Operating Rig Time 4 Hours

Max Rec. Temp. F 125

Equipment Number 91

Location Hays

Recorded By K. Bange

Witnessed By Vern Schrag

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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

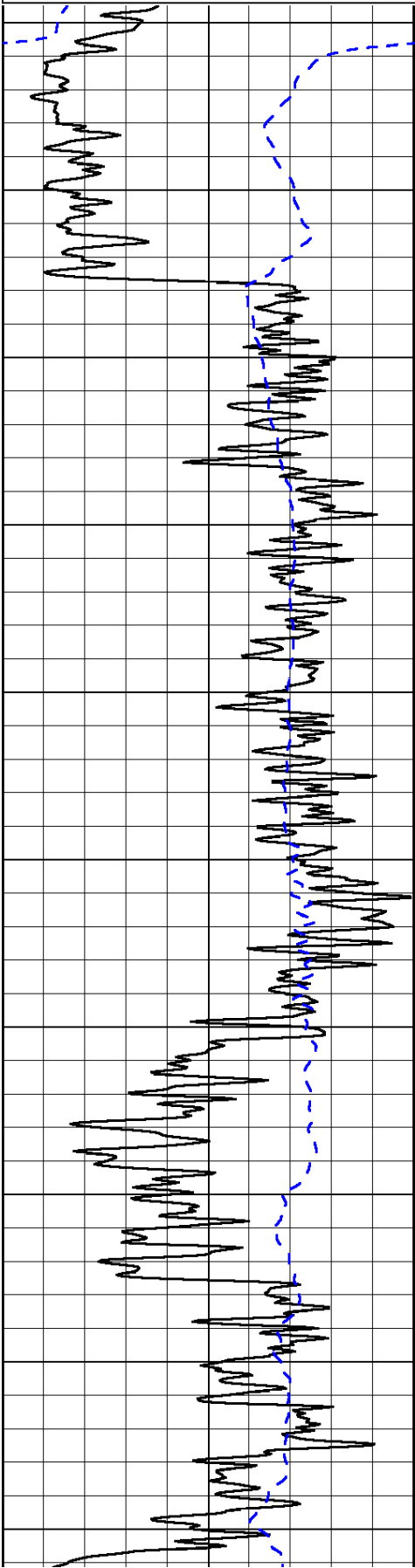
Thank you for using Log-Tech, Inc.
(785) 625-3858

Dighton, 6 S to 90 rd,
1 W, 1/2 N, E into

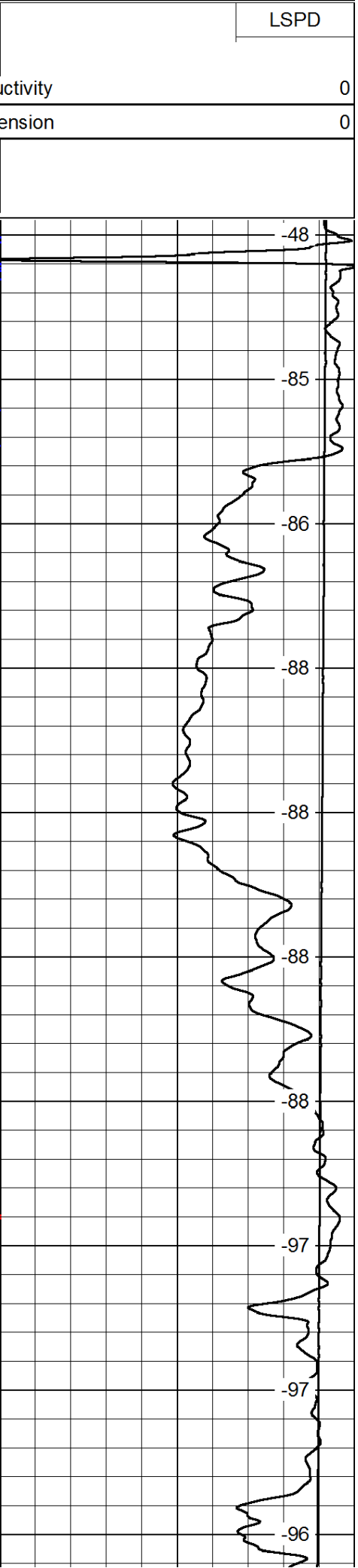
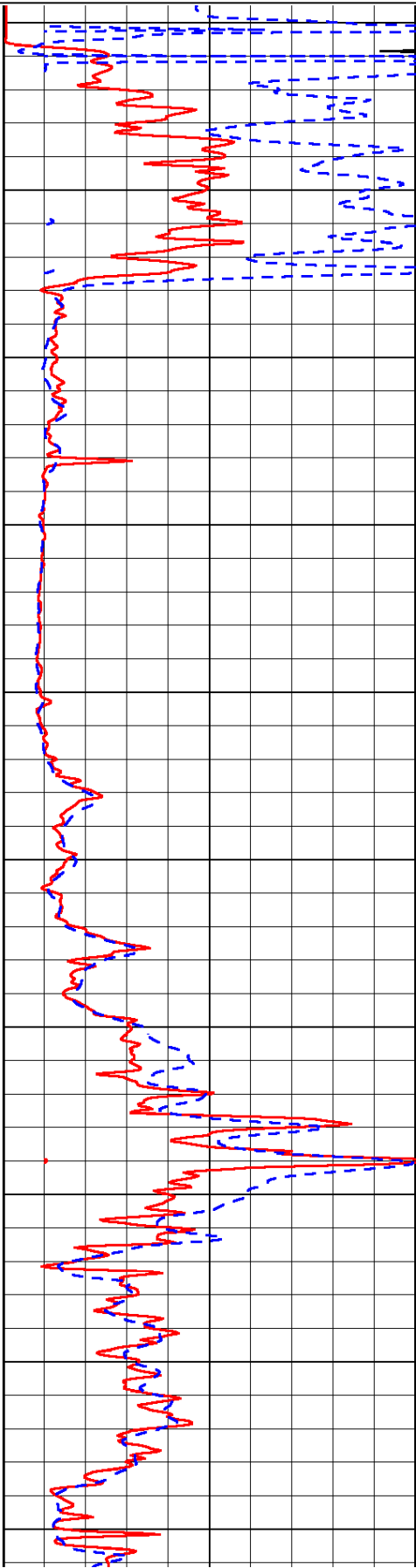
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Presentation Format: dil2in
Dataset Creation: Mon Apr 30 09:57:49 2012
Charted by: Depth in Feet scaled 1:600

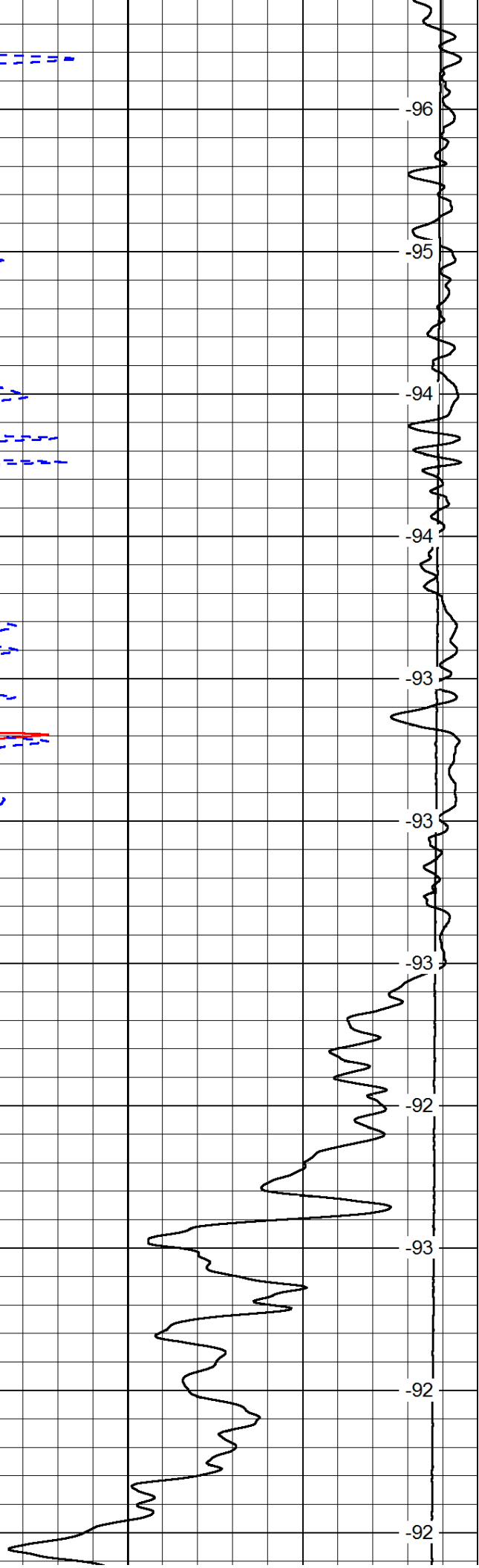
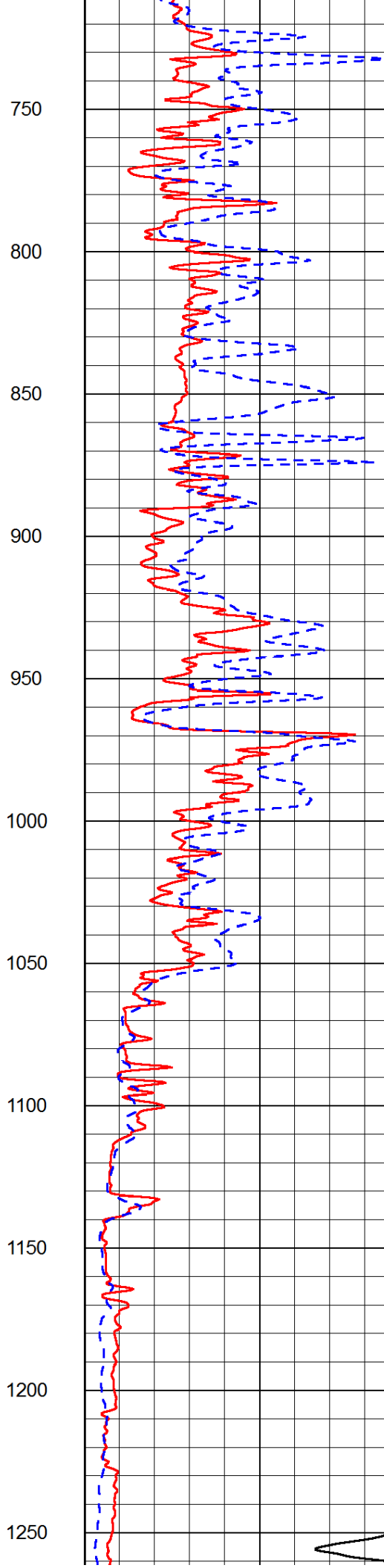
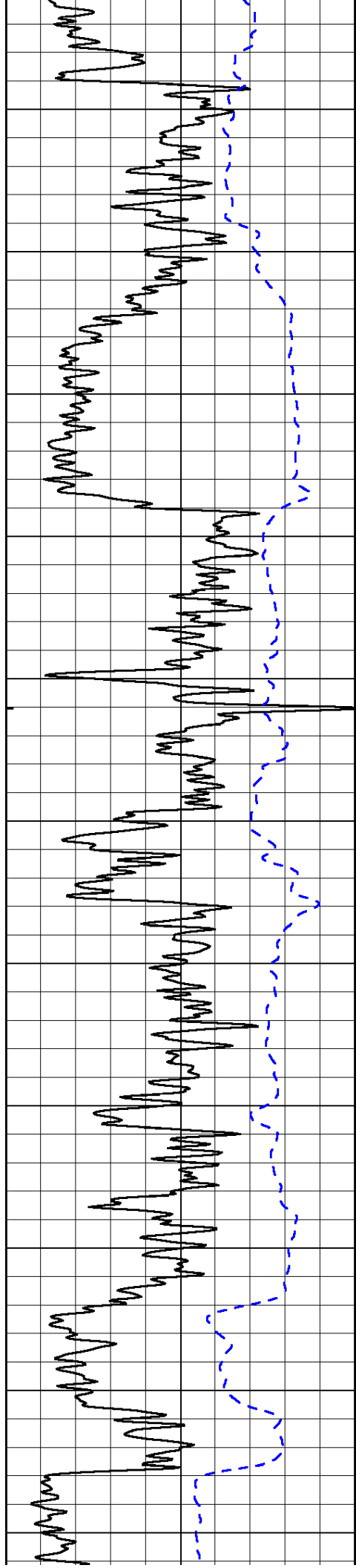
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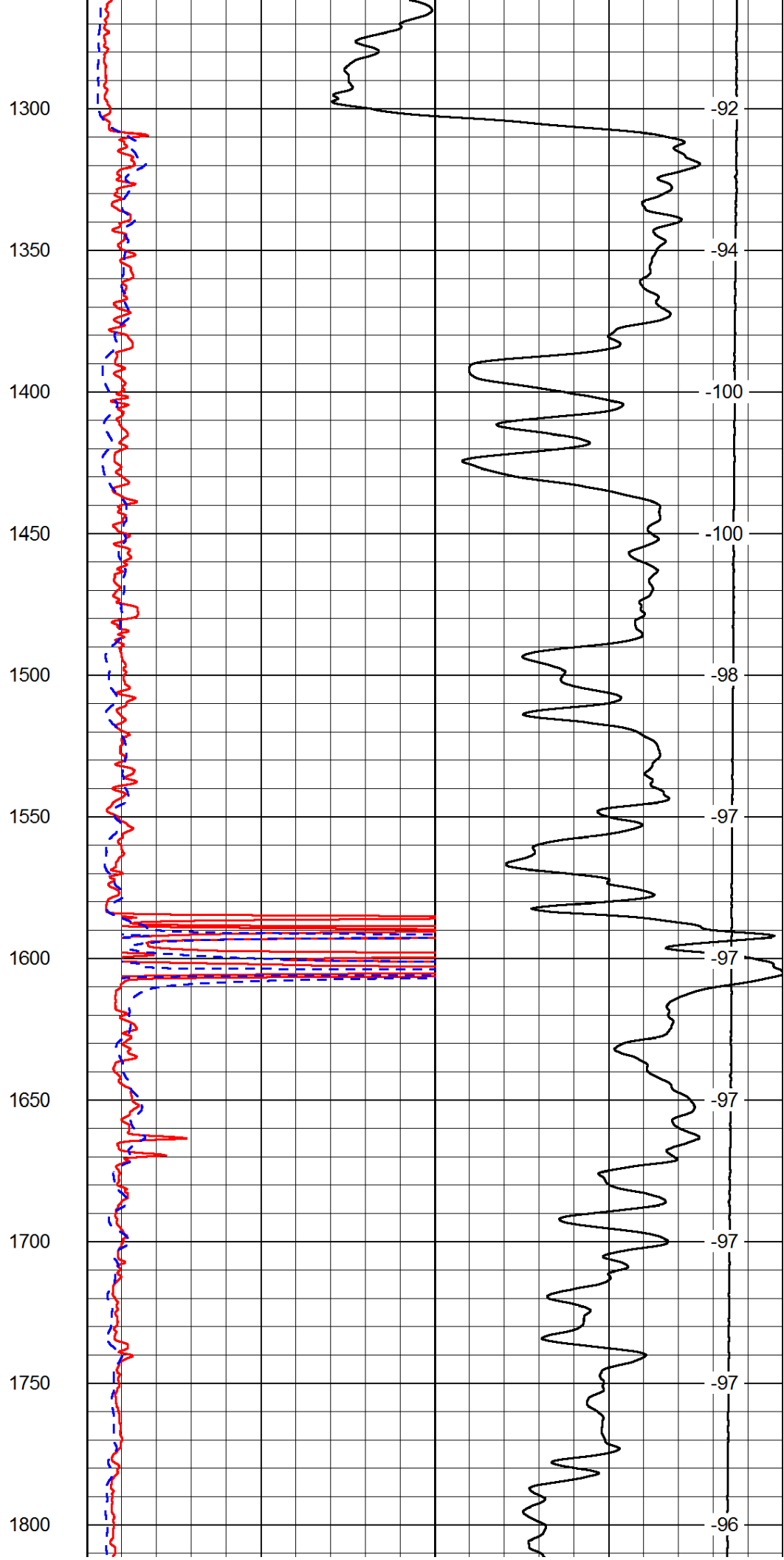
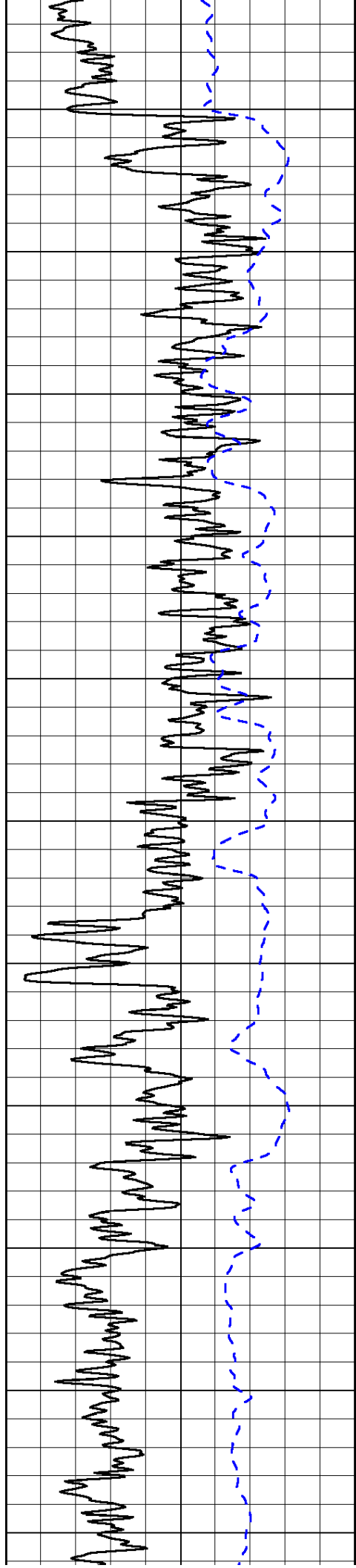
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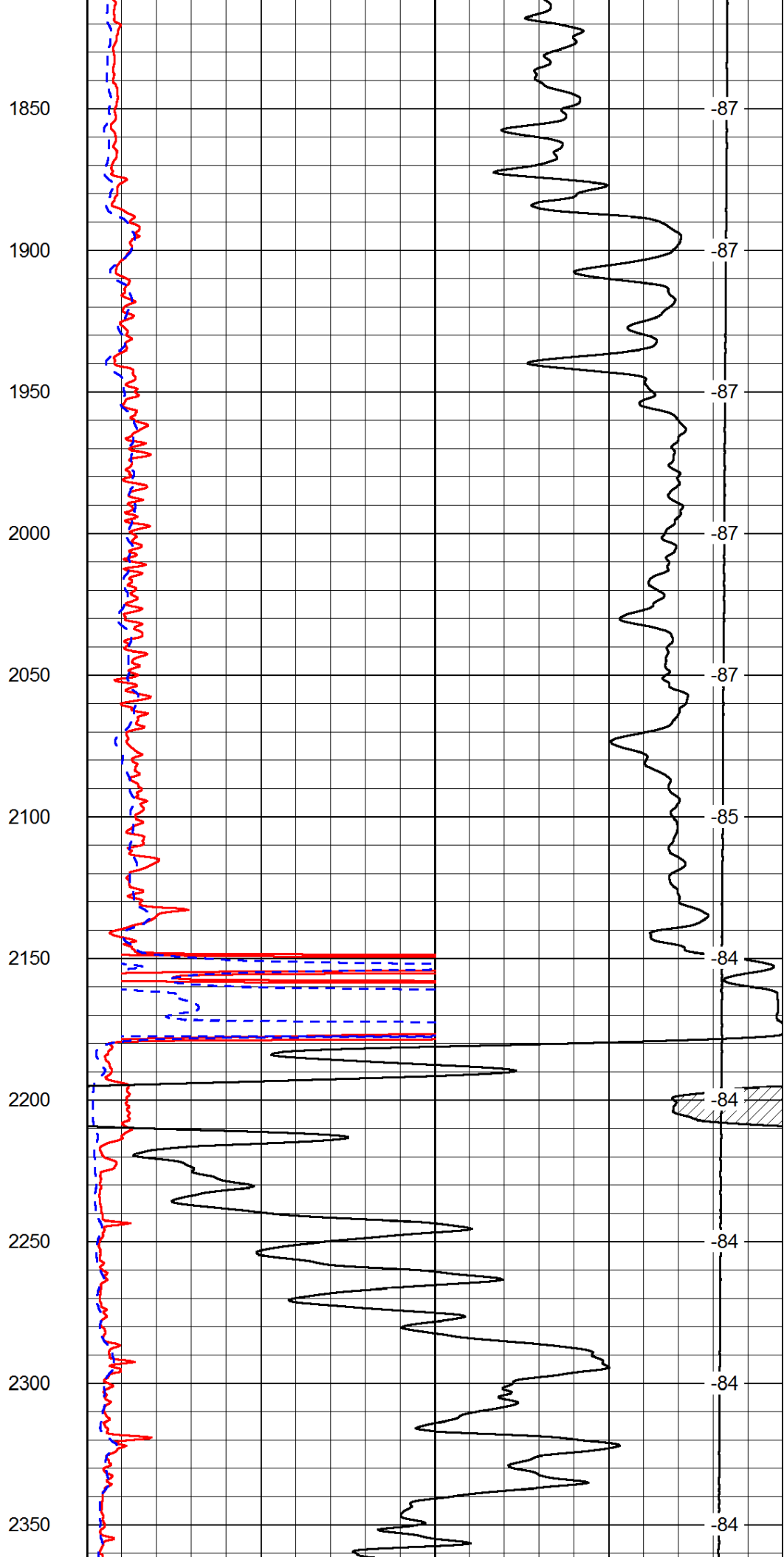
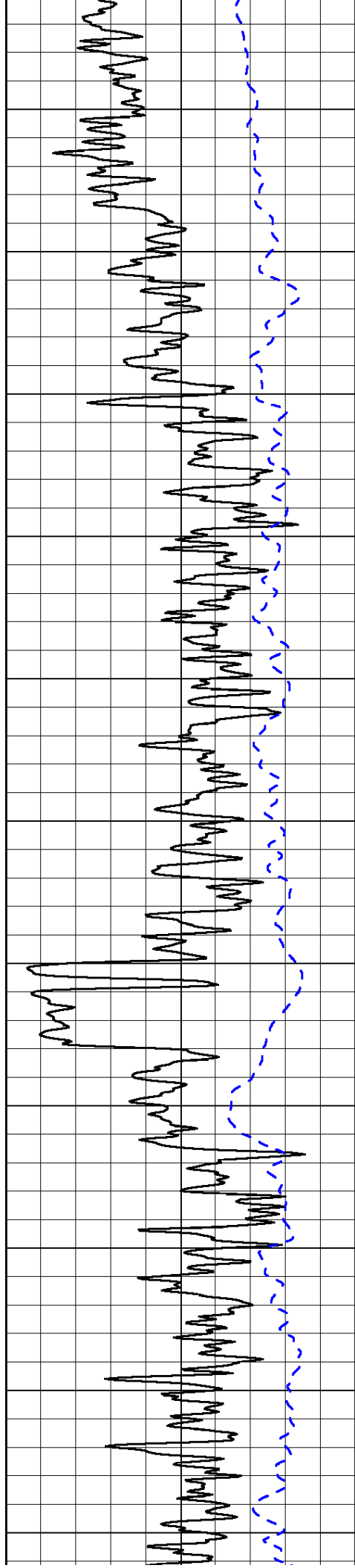


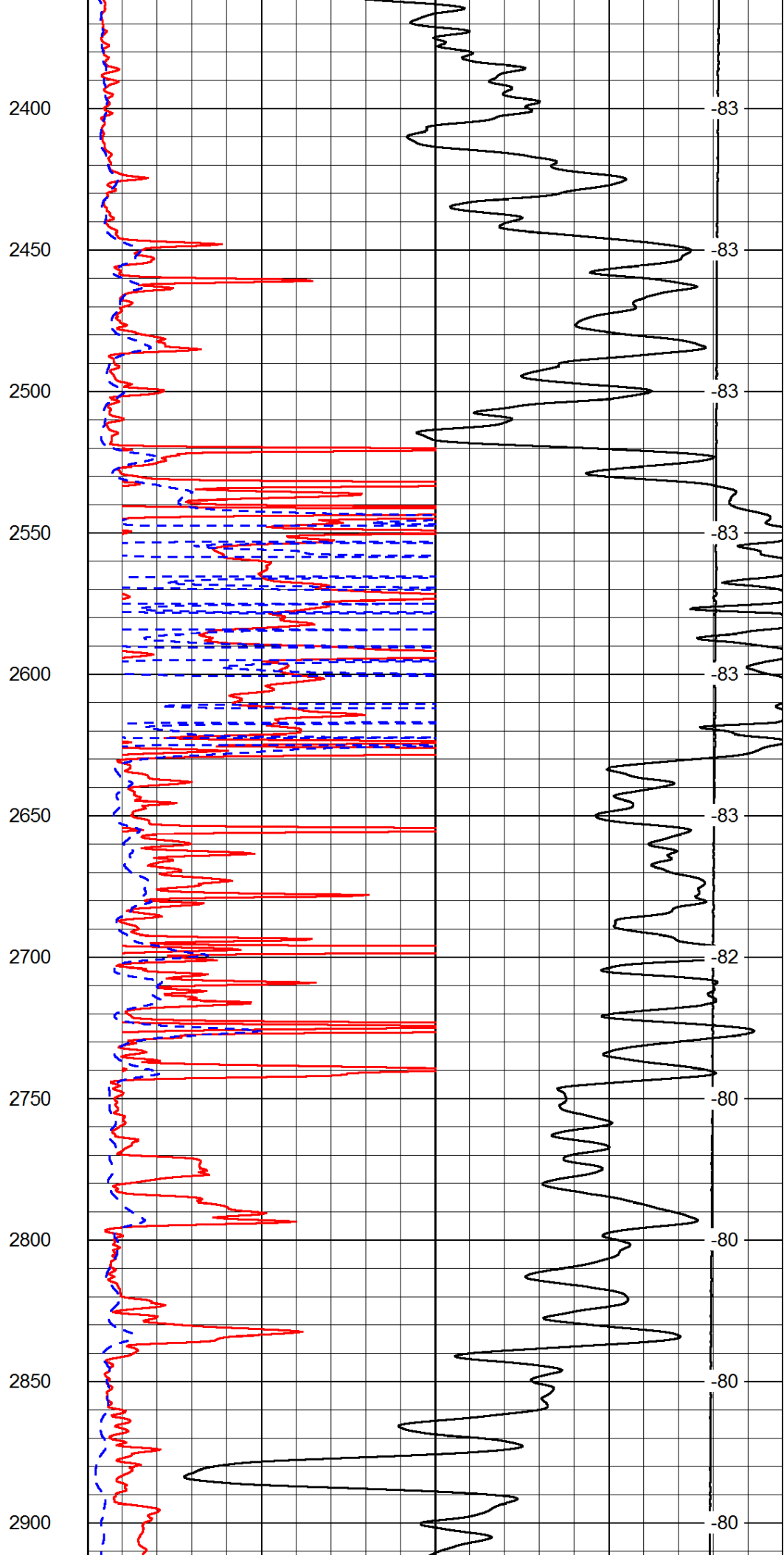
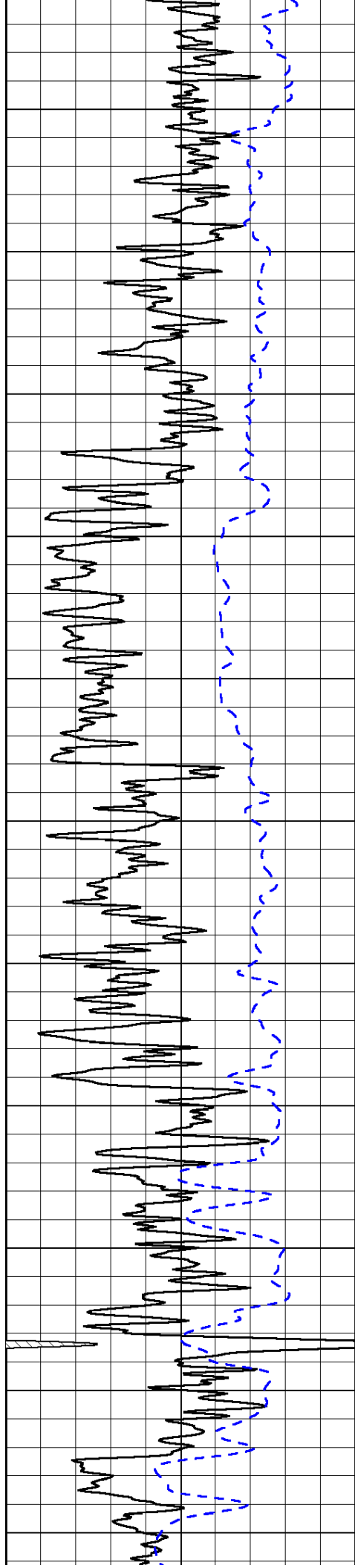
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

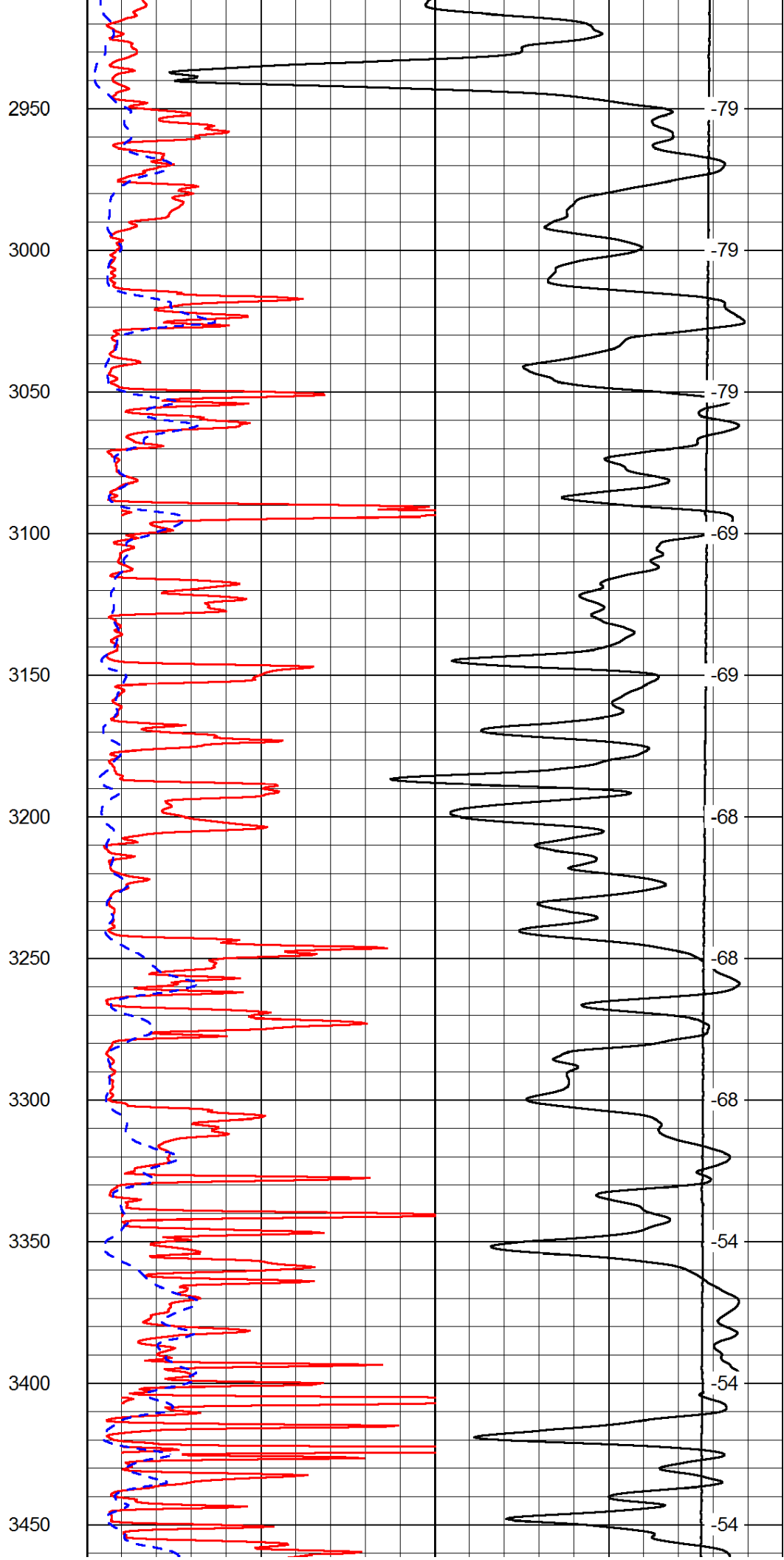
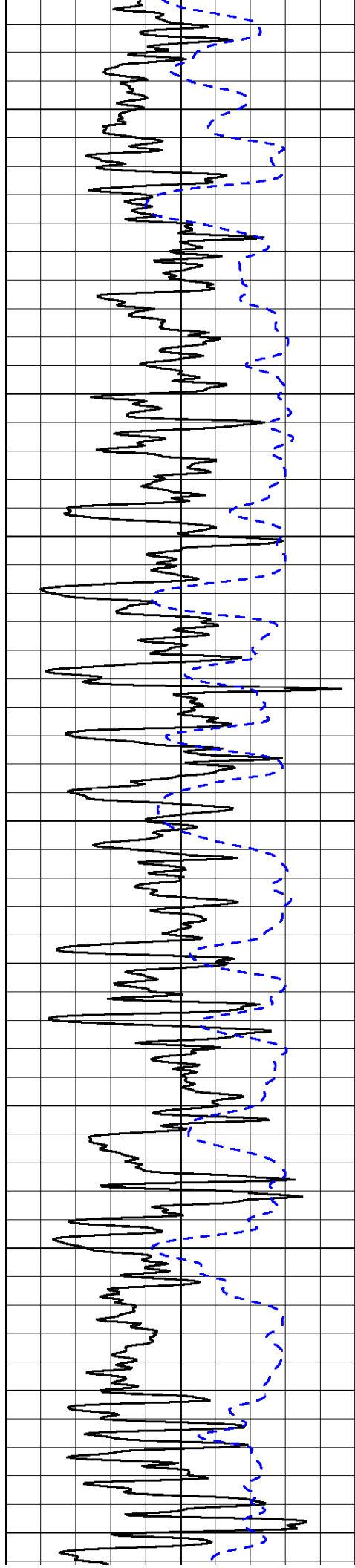


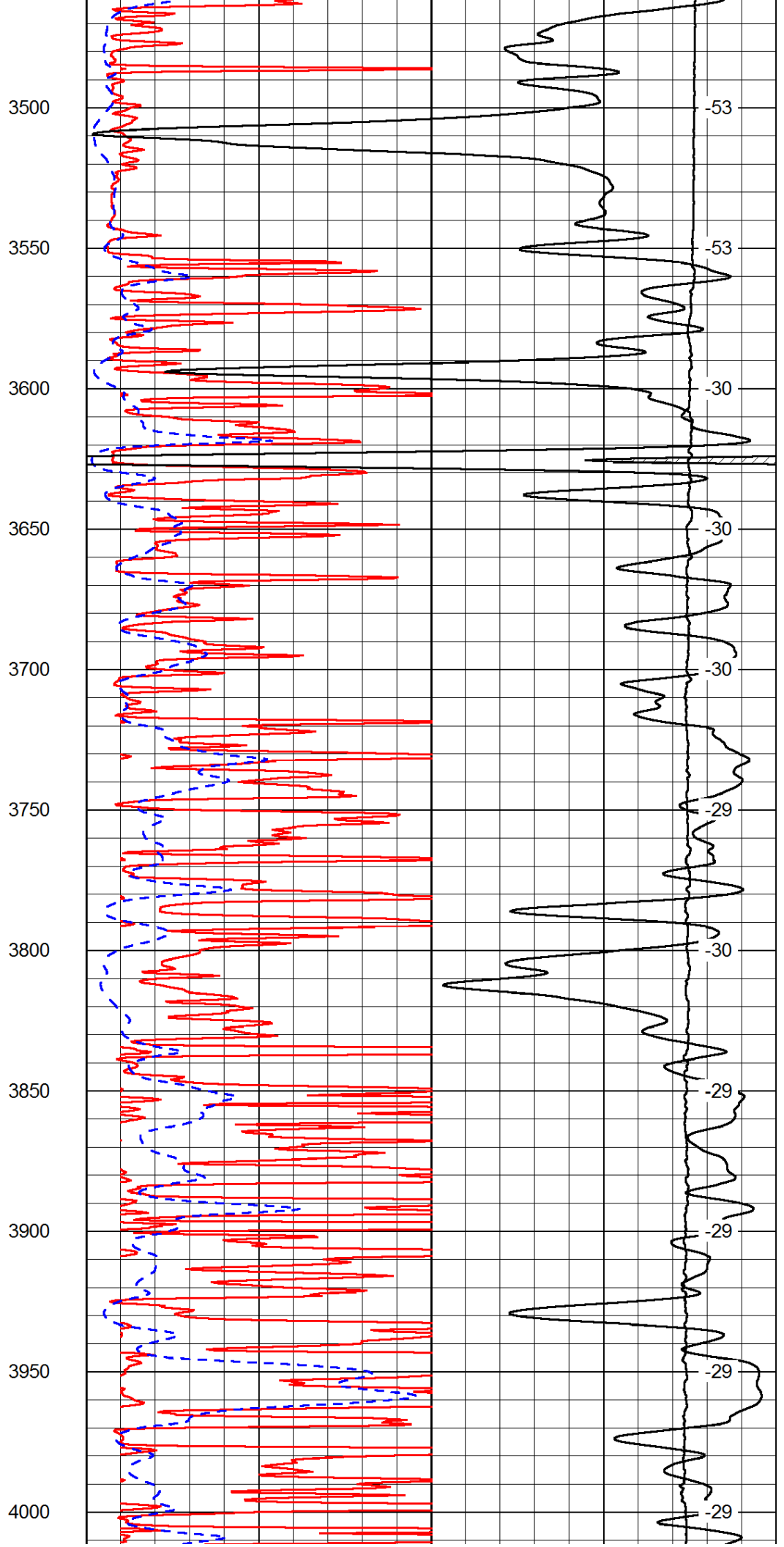
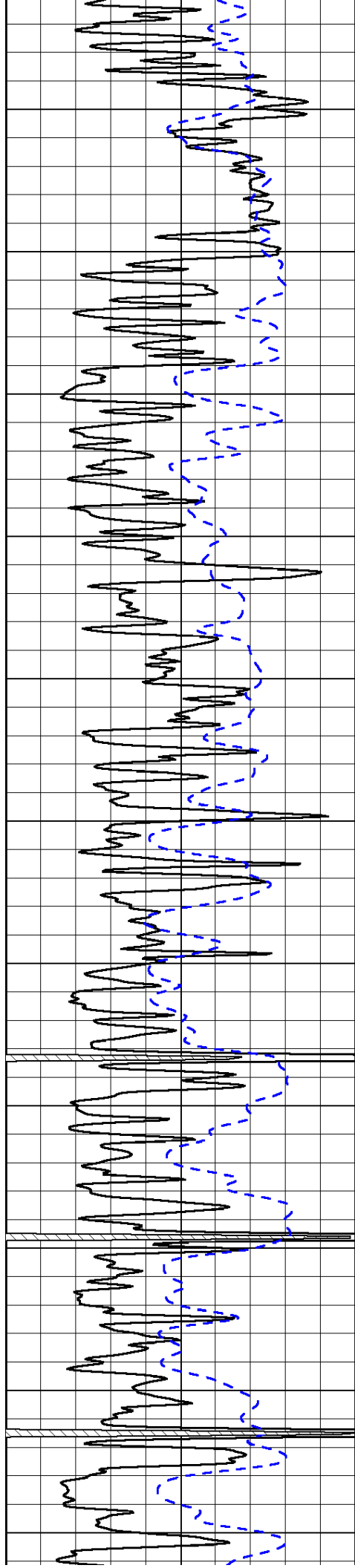


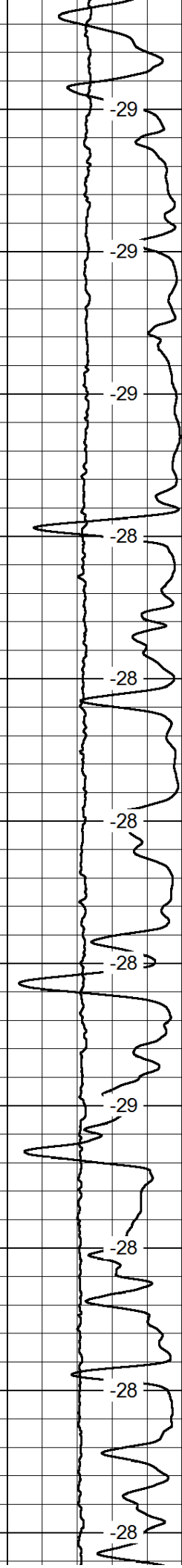
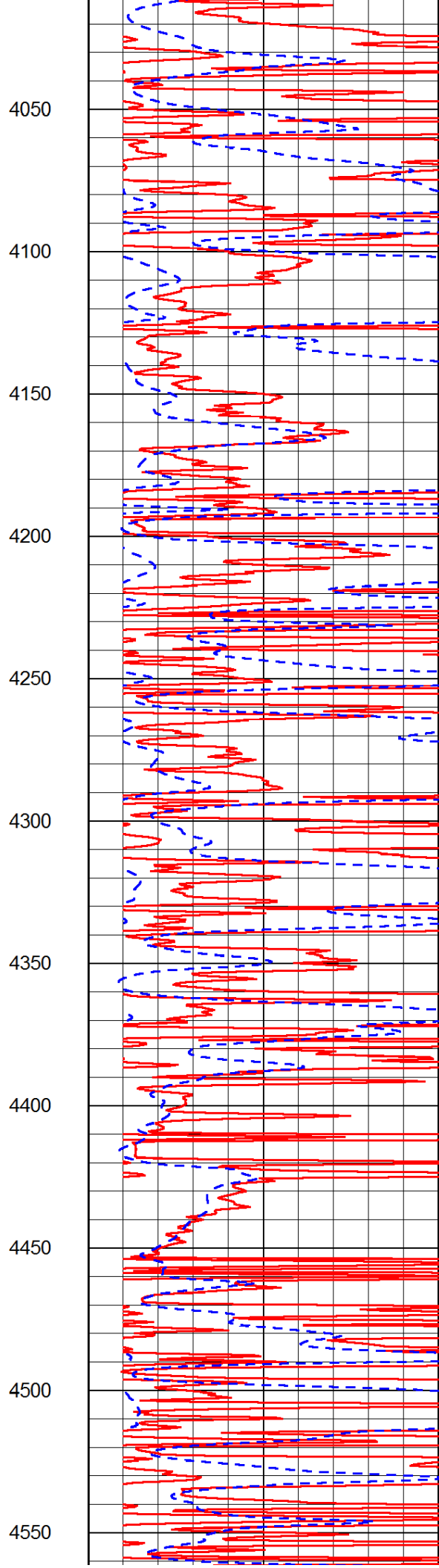
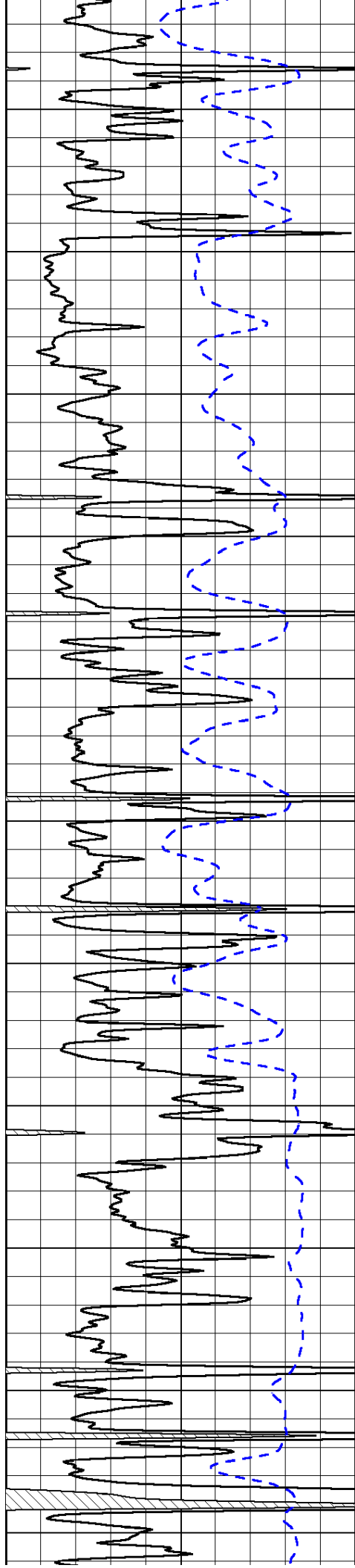


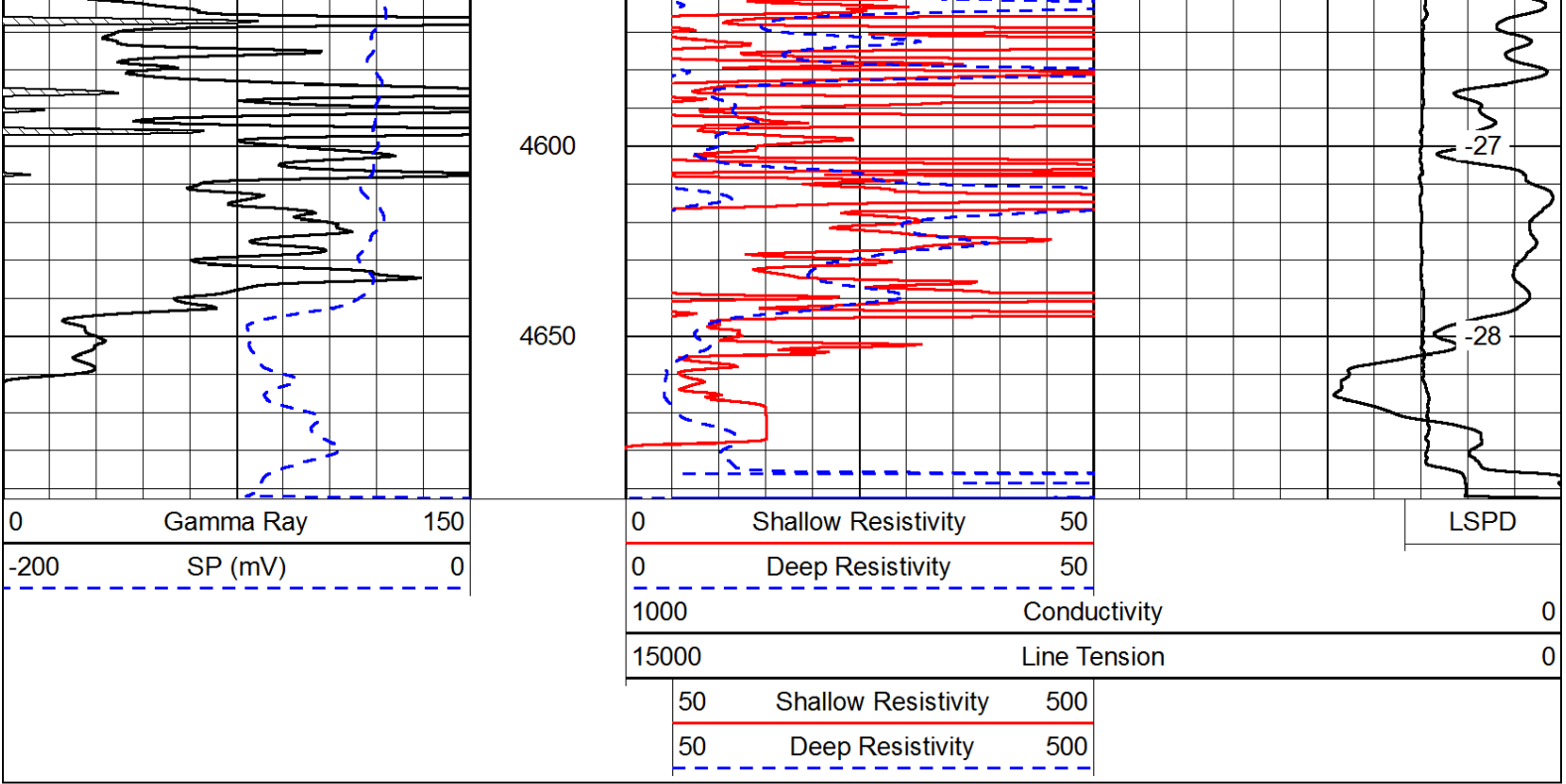




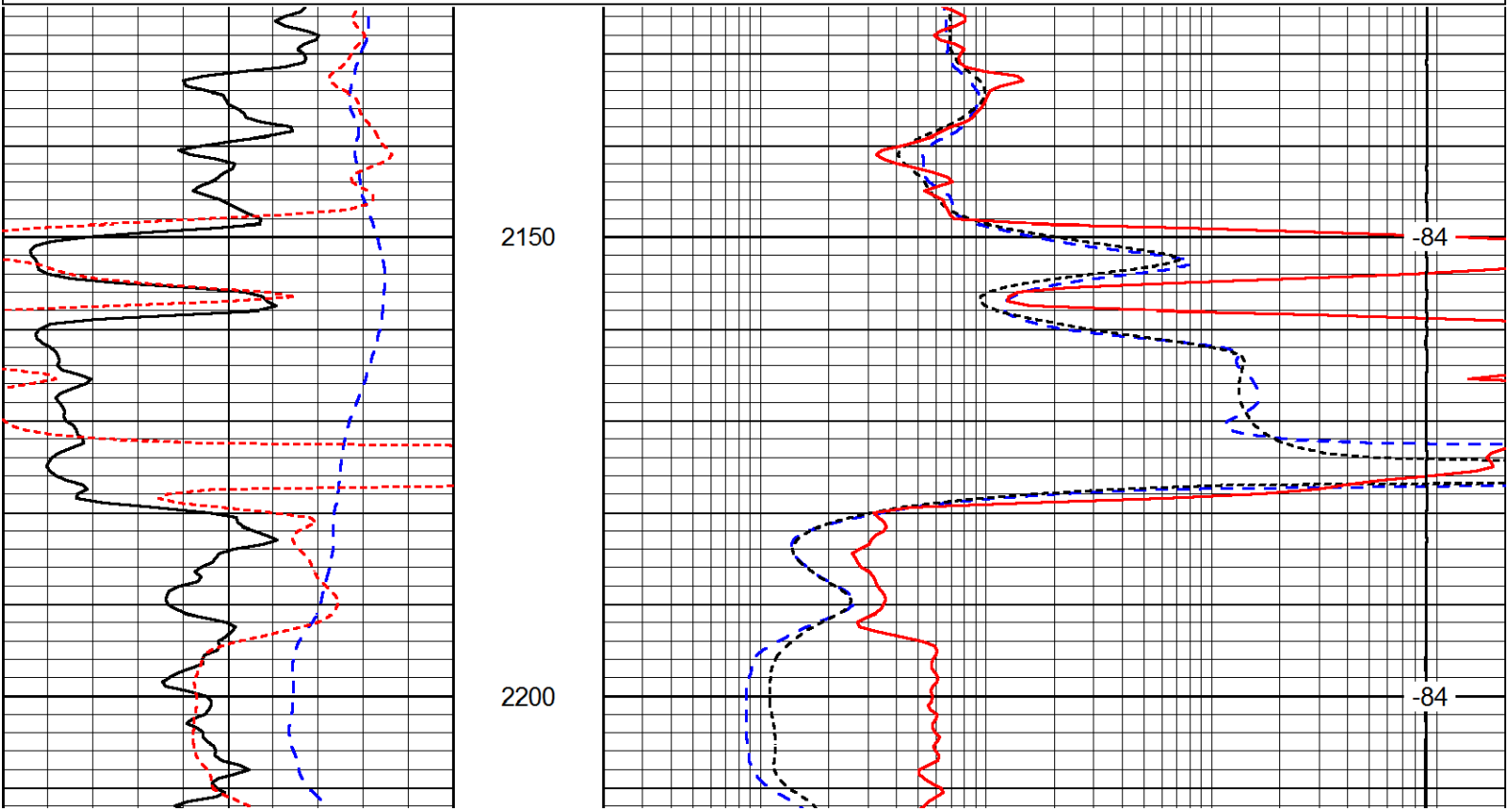
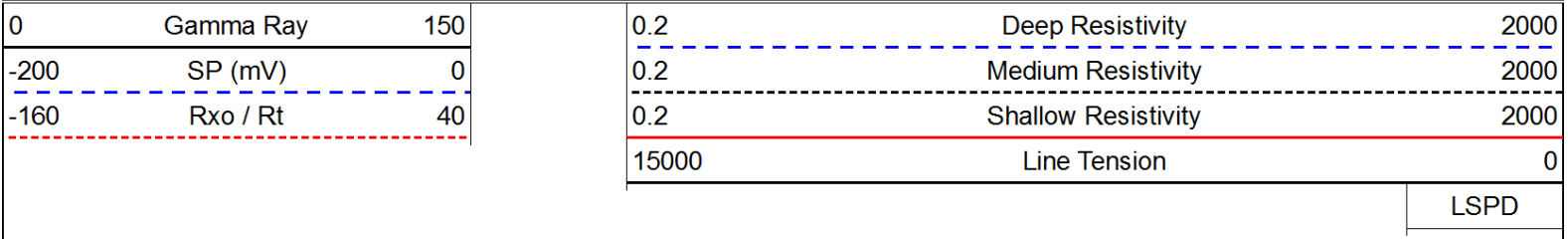


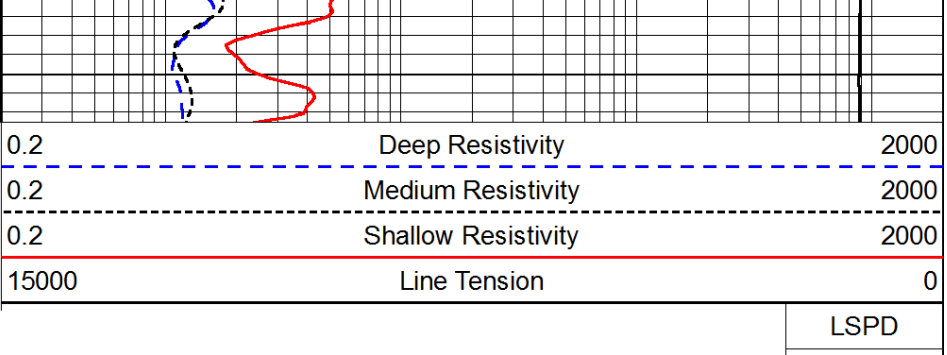
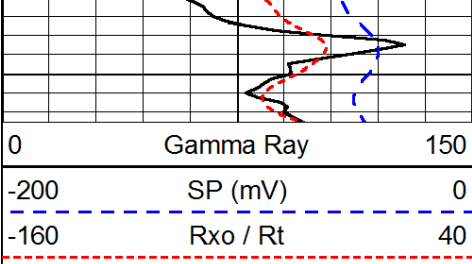




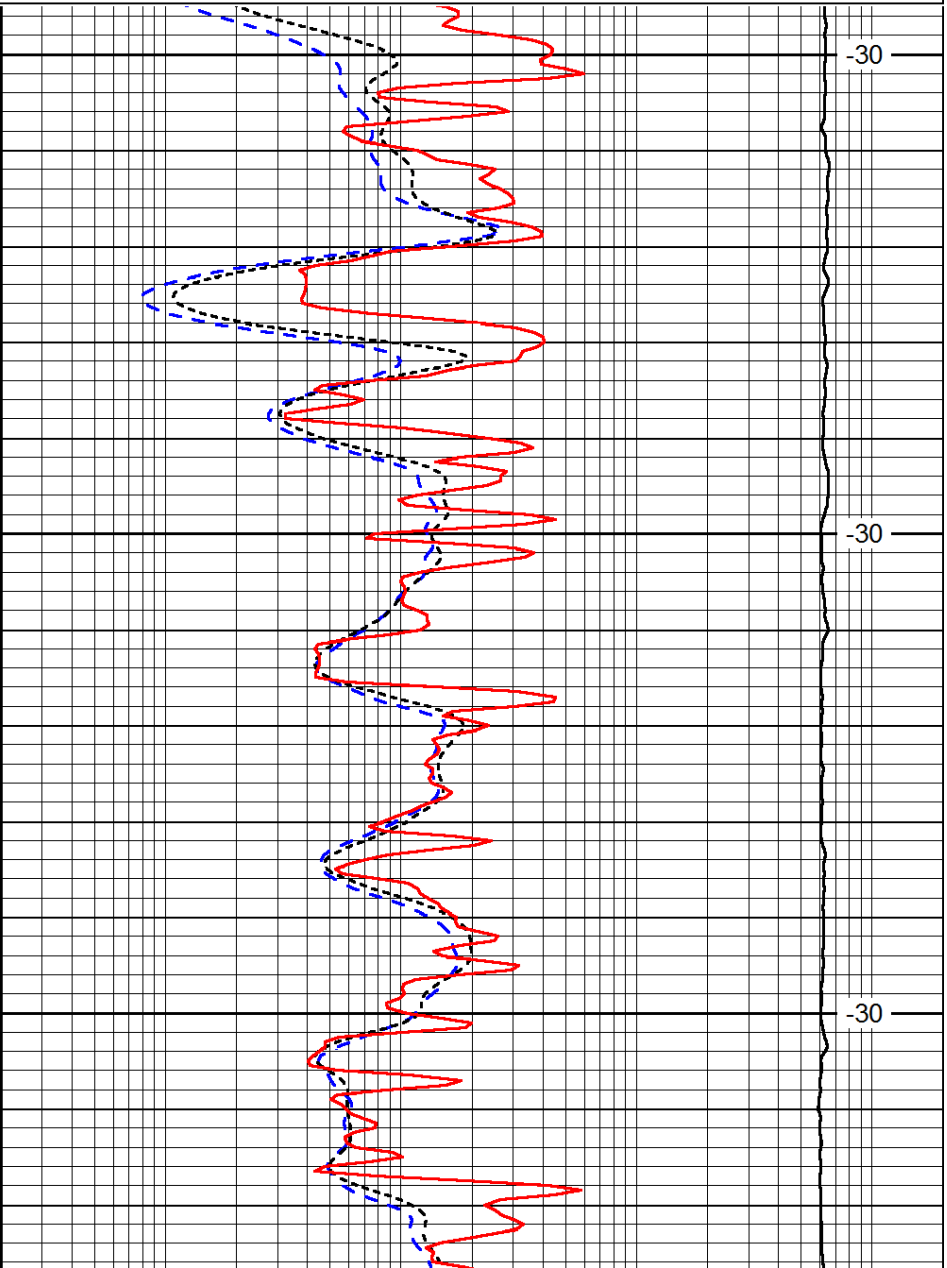
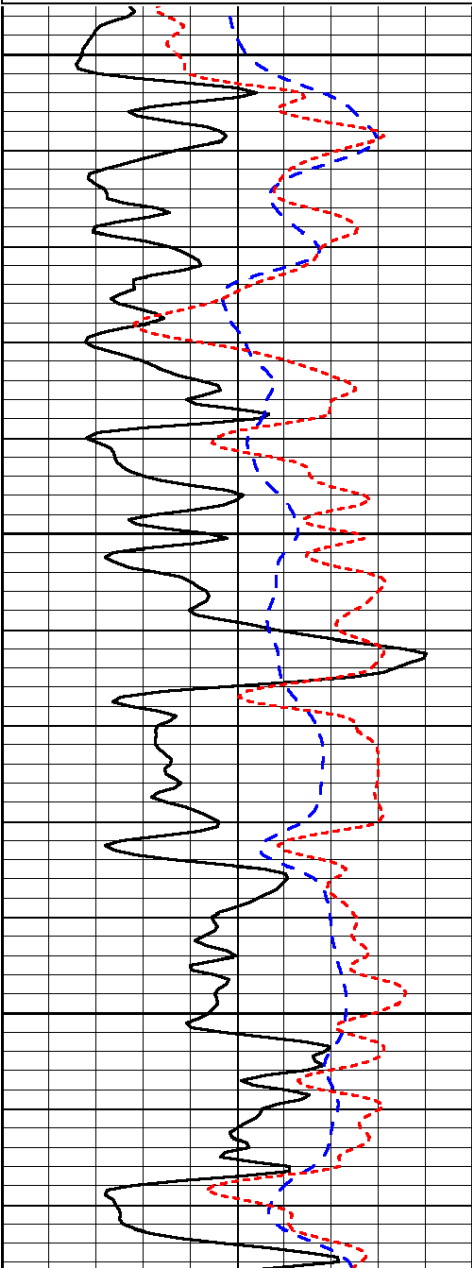
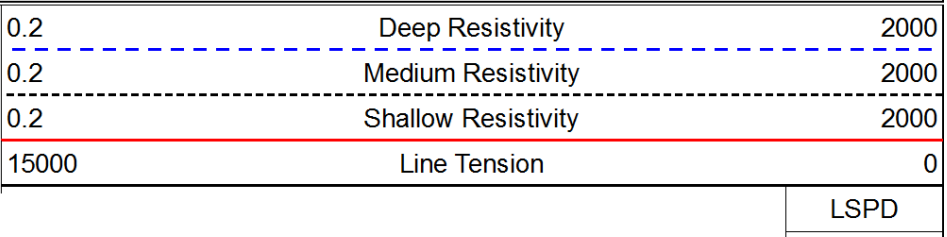
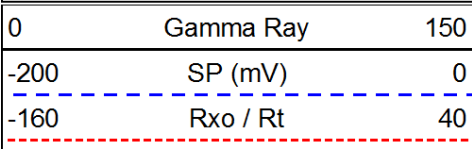


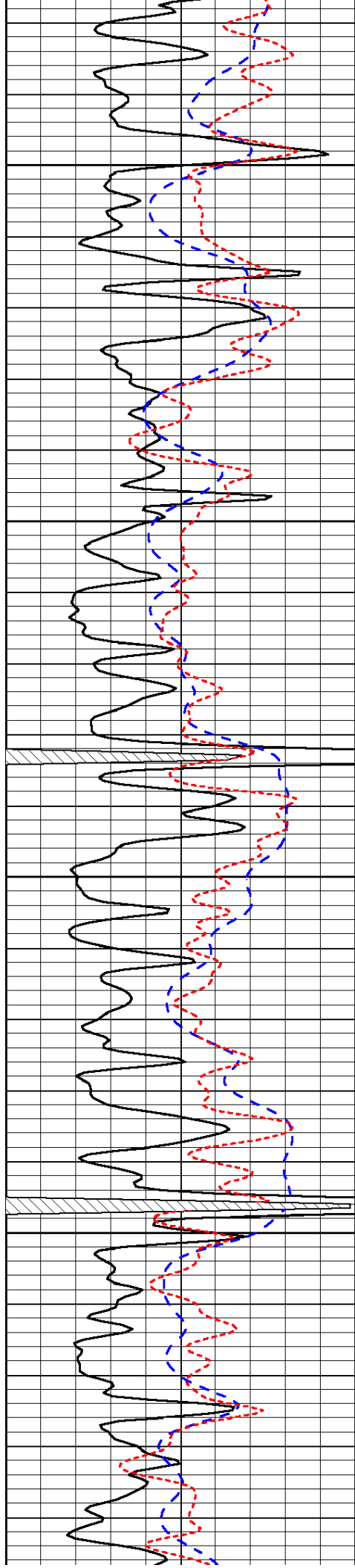
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Presentation Format: dil
Dataset Creation: Mon Apr 30 09:57:49 2012
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Database File: c:\warrior\data\larson_I. york no. 1-13\larson043012hd.db
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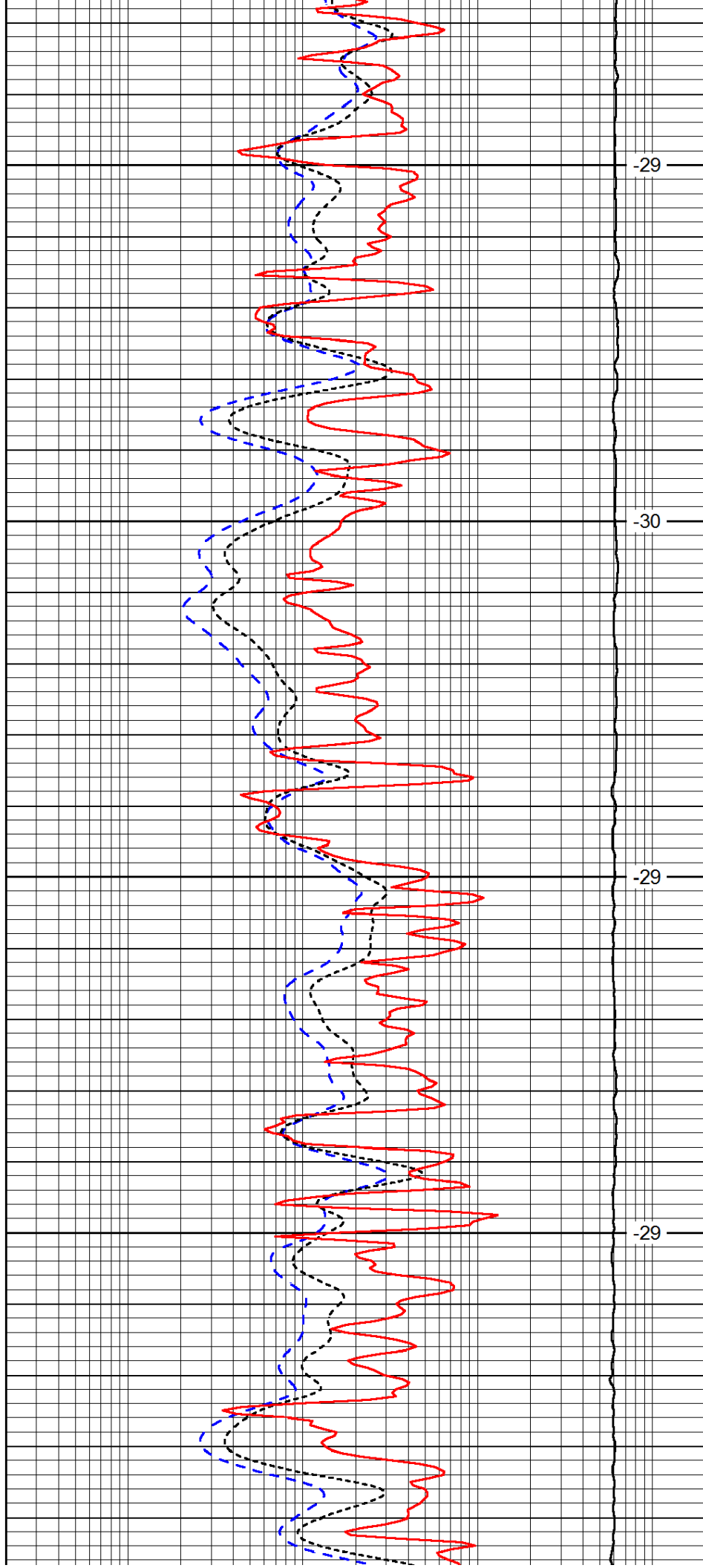


3750

3800

3850

3900

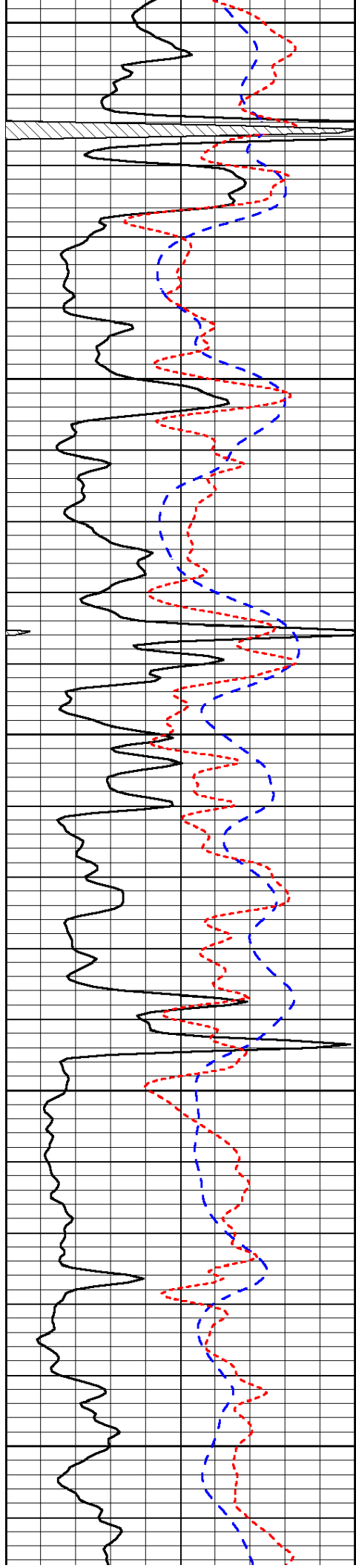


-29

-30

-29

-29



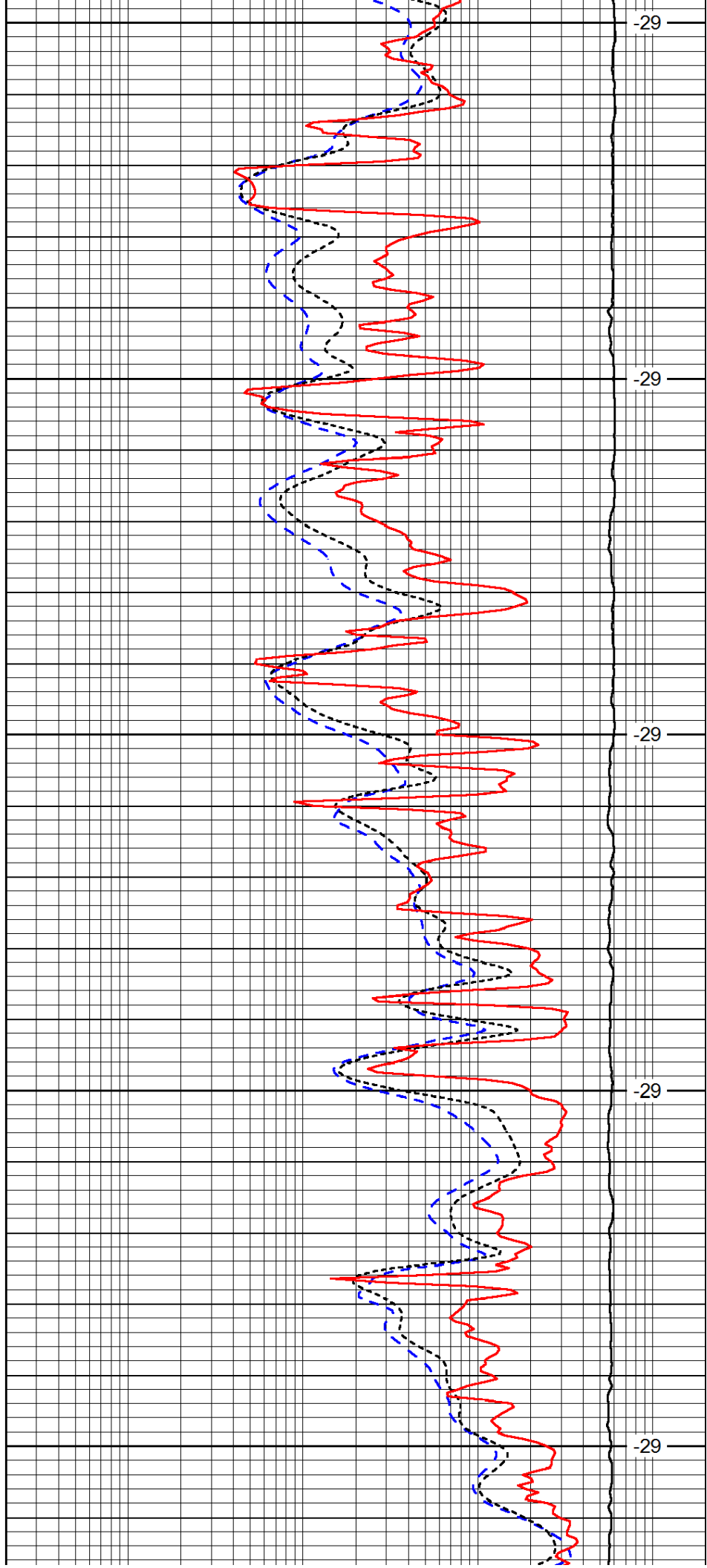
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4000

4050

4100

4150



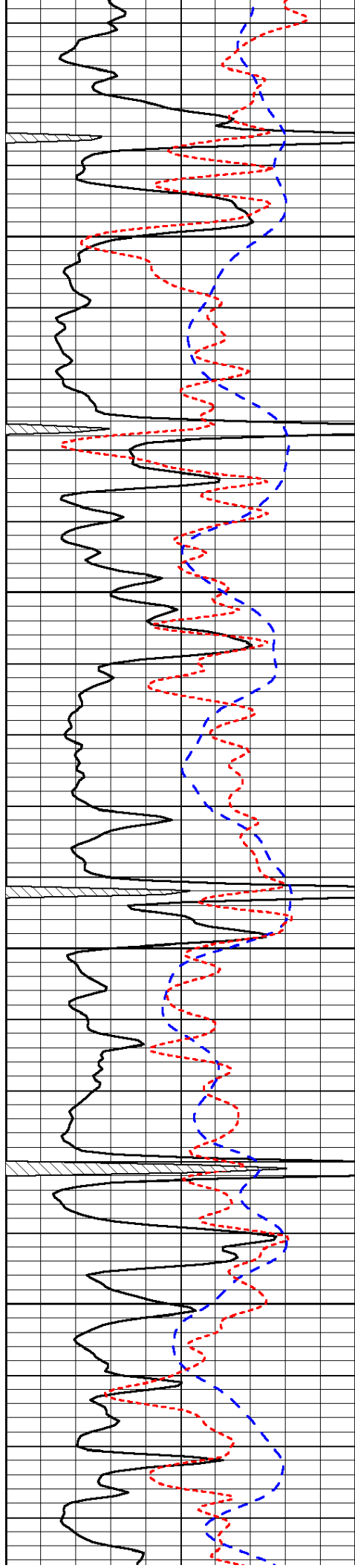
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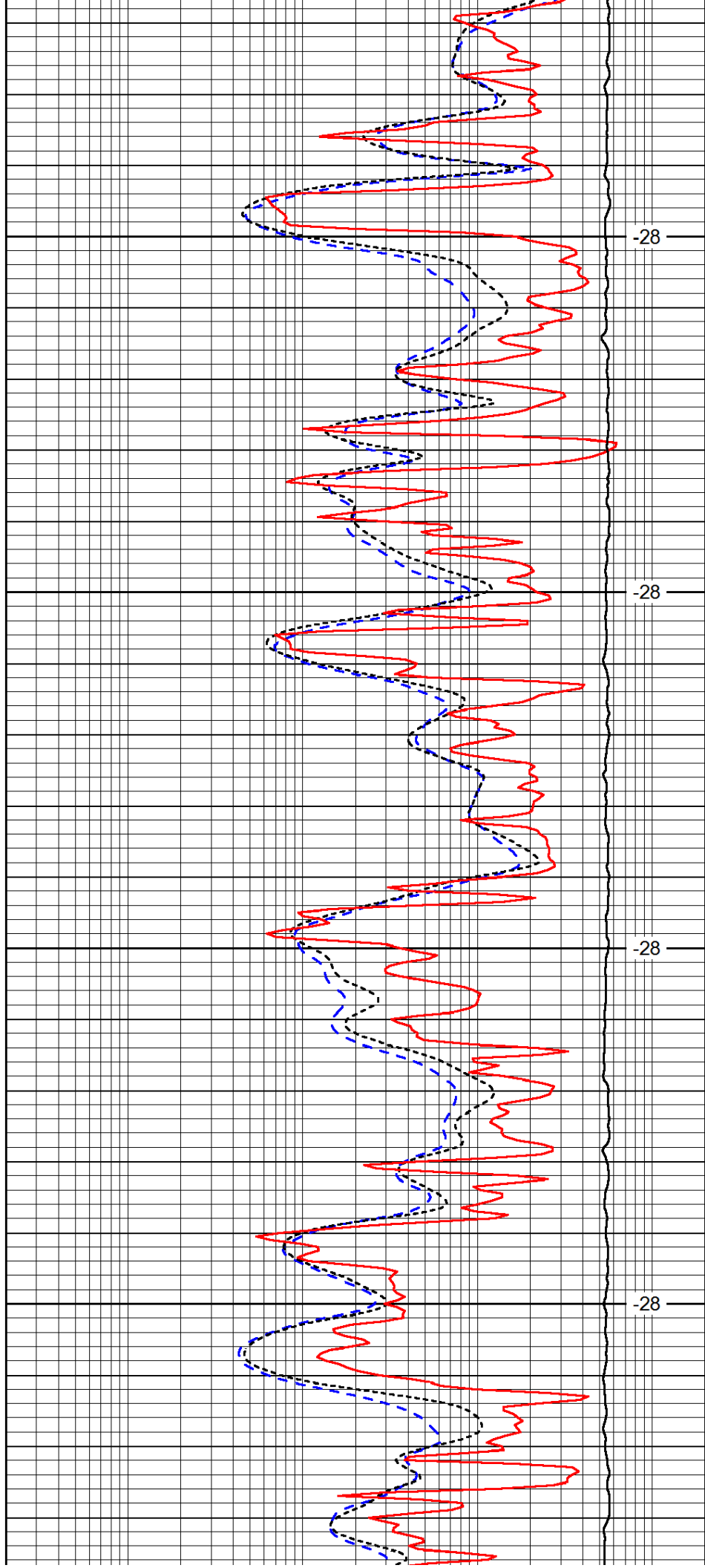


4200

4250

4300

4350

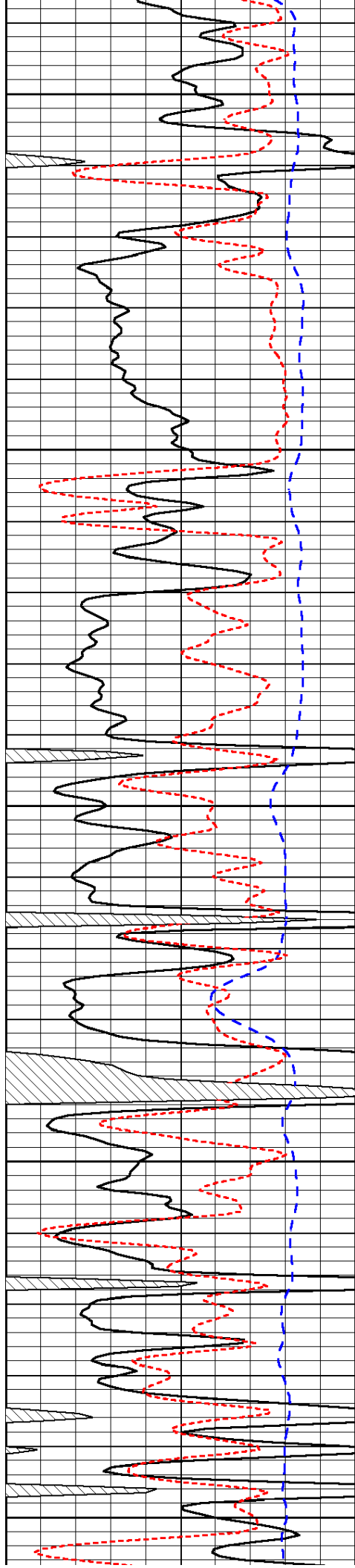


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-28



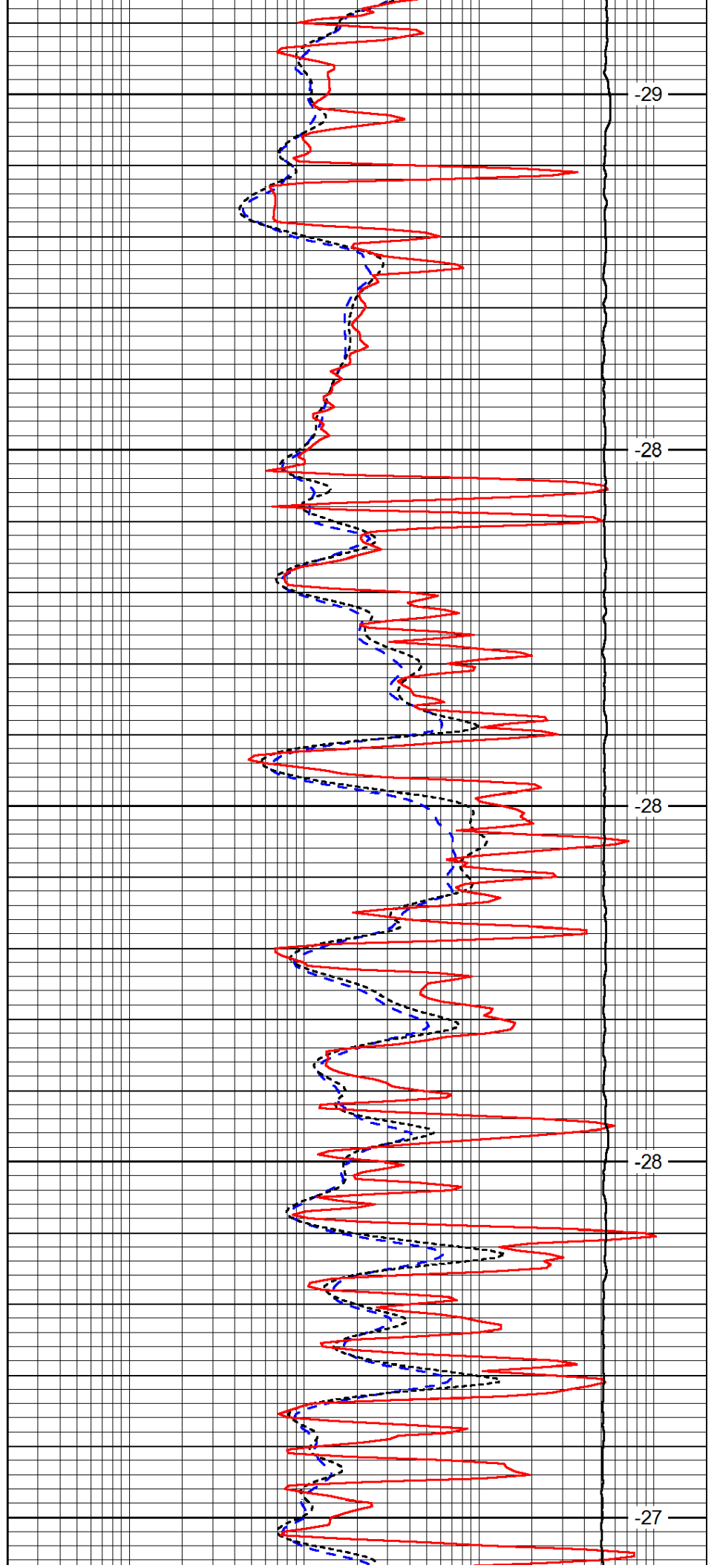
4400

4450

4500

4550

4600



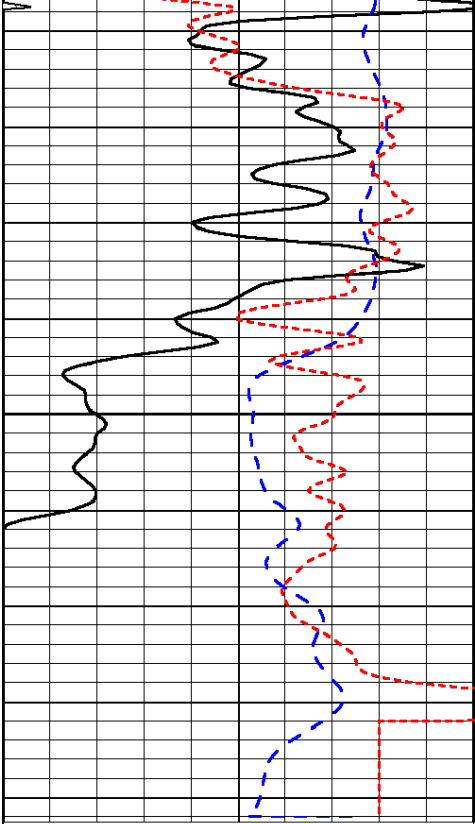
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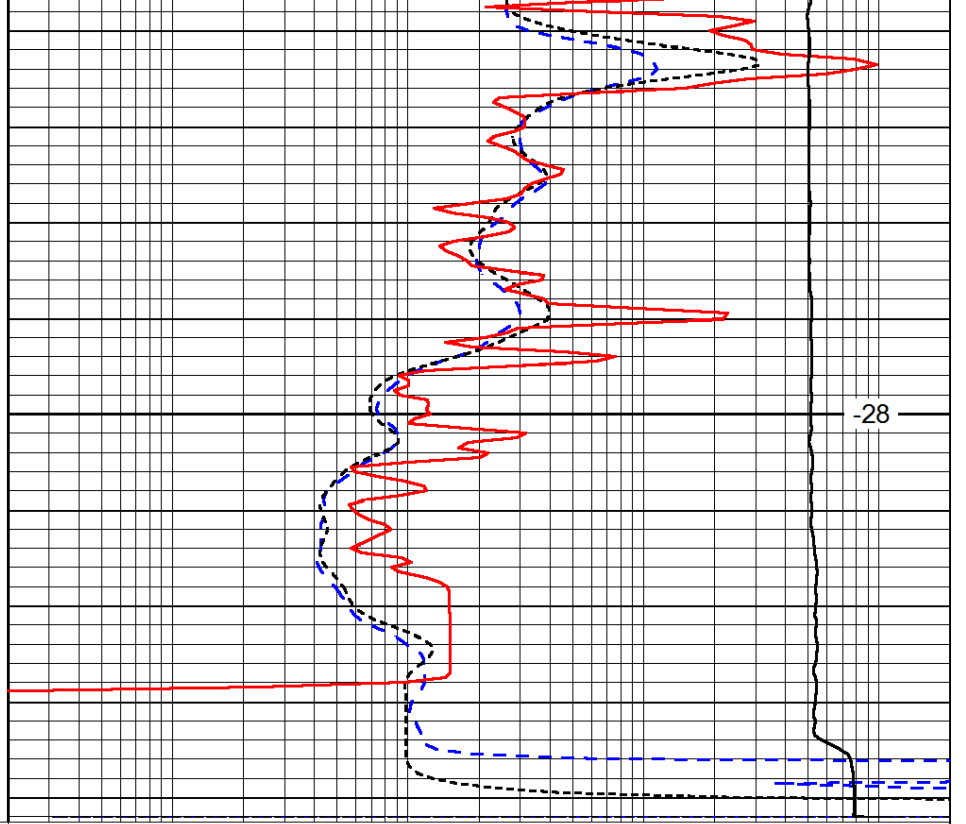
-28

-27



0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

4650



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

-28

LSPD