



DIGITAL LOG (785) 625-3858

Dual Induction Log

Company **Larson Engineering, Inc.**

Well **Cramer #1-17**

Field **Wildcat**

County **Lane** State **Kansas**

Location **1318' FSL & 2310' FEL**

Sec: **17** Twp: **17 S** Rge: **30 W**

Permanent Datum **Ground Level** Elevation **2882**

Log Measured From **Kelly Bushing** 7 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services
CNL/CDL
MEL

Elevation
K.B. 2889
D.F. G.L. 2882

15-101-22,383-00-00

Date **7/7/2012**

Run Number **One**

Depth Driller **4620**

Depth Logger **4620**

Bottom Logged Interval **4619**

Top Log Interval **250**

Casing Driller **8.625 @ 261**

Casing Logger **262**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **3500**

Density / Viscosity **9.3 55**

pH / Fluid Loss **10.0 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **.80 @ 86**

Rmf @ Meas. Temp **.60 @ 86**

Rmc @ Meas. Temp **1.08 @ 86**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.56 @ 122**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **122**

Equipment Number **108**

Location **Hays**

Recorded By **D.Kerr**

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

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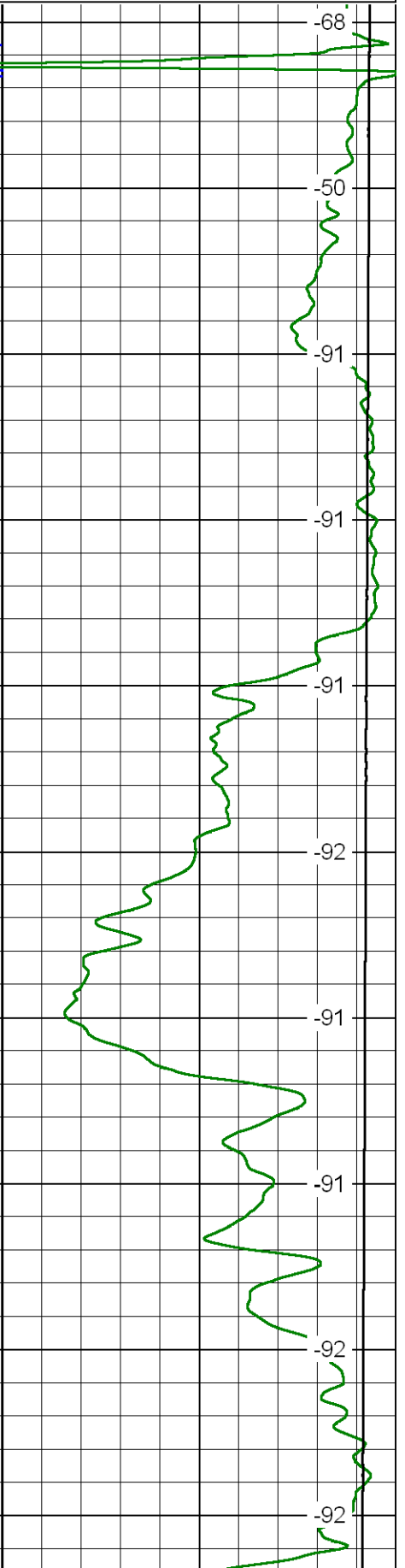
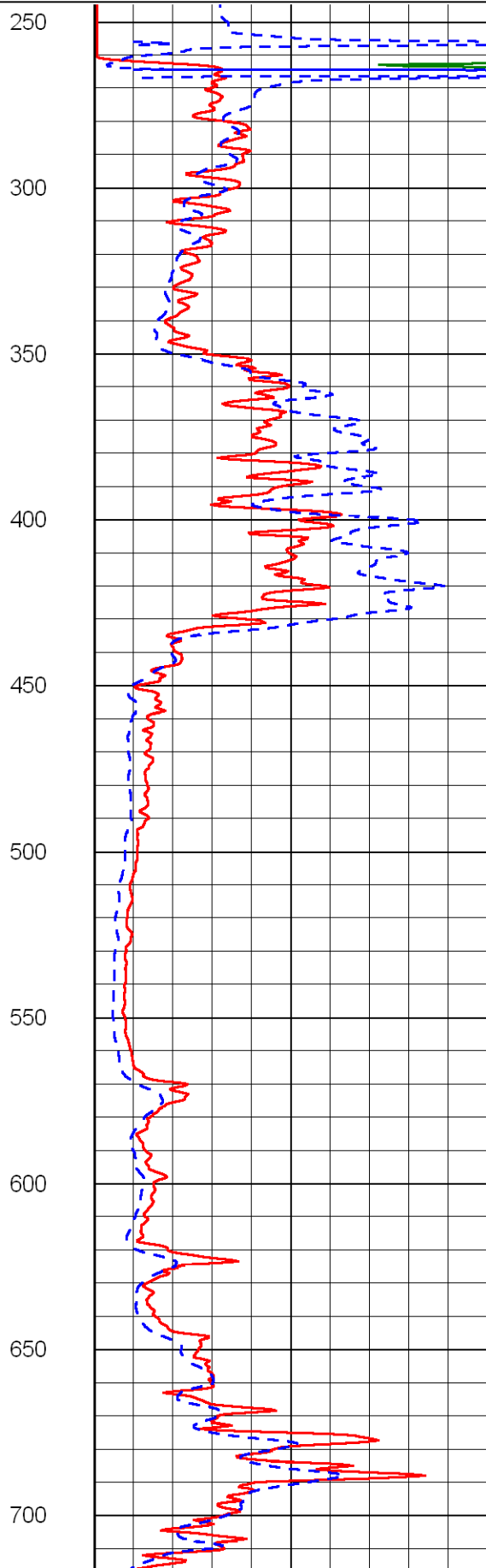
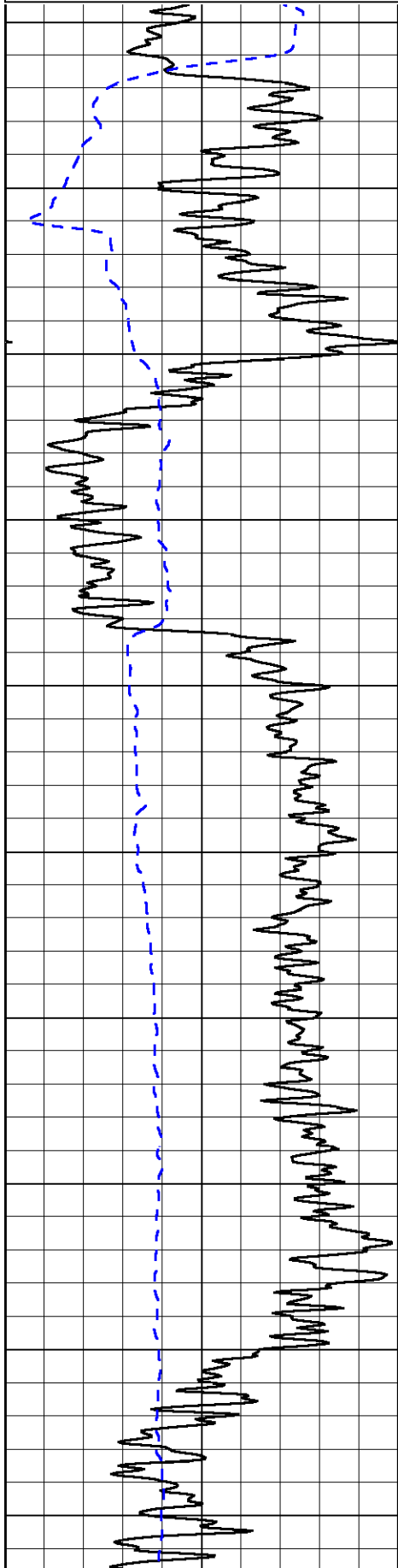
Healy KS, 2 West to Bison RD,
2 South, 1/4 West,
North Into

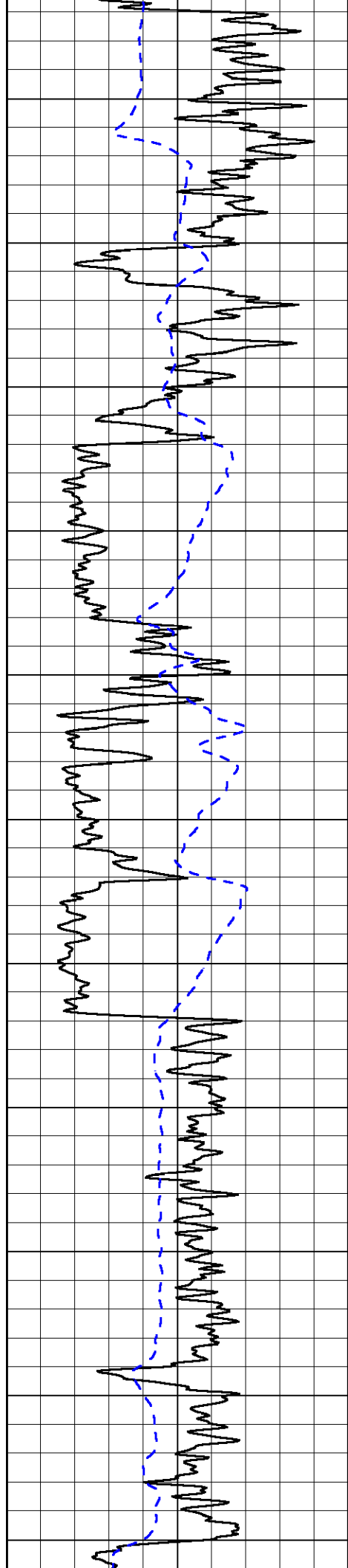
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Dataset Pathname: **DIL2/larstlk4**
Presentation Format: **dil2in**
Dataset Creation: **Sat Jul 07 13:18:26 2012**
Charted by: **Depth in Feet scaled 1:600**

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-200	SP	0

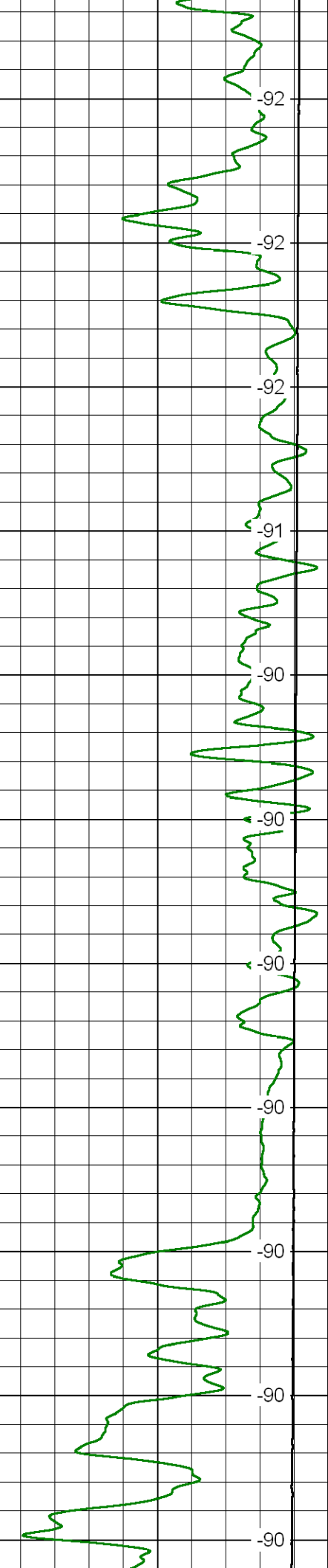
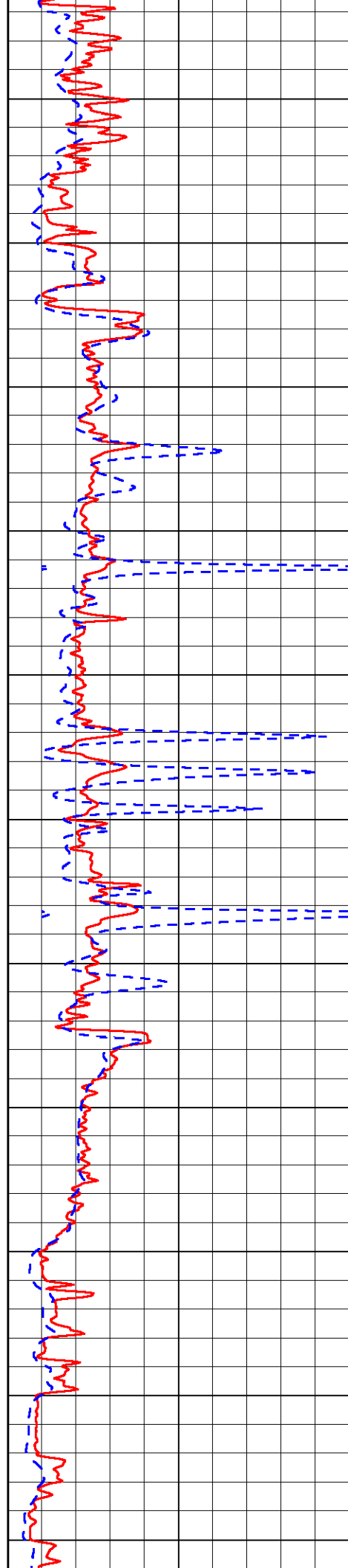
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50	Deep Resistivity	500

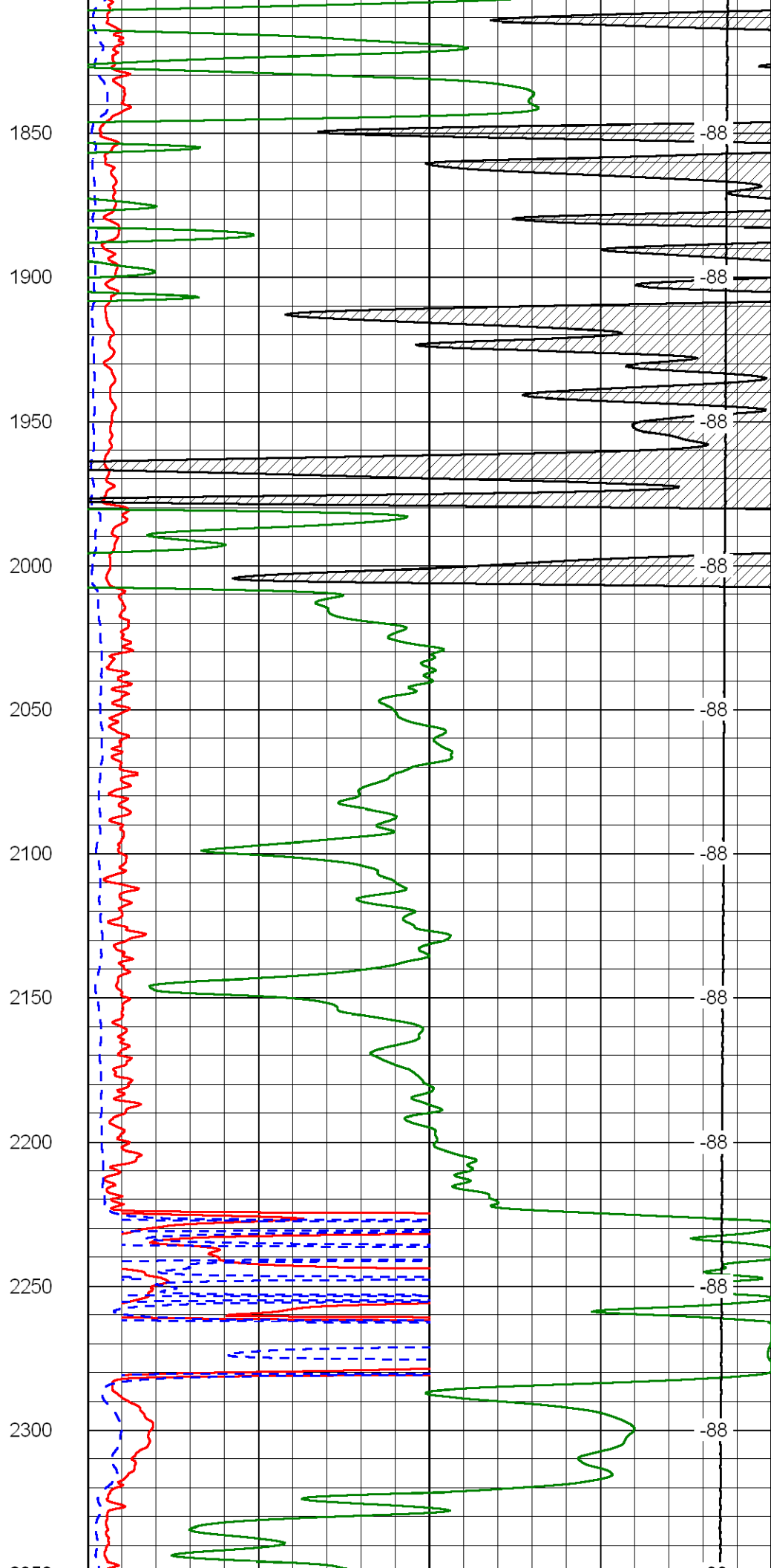
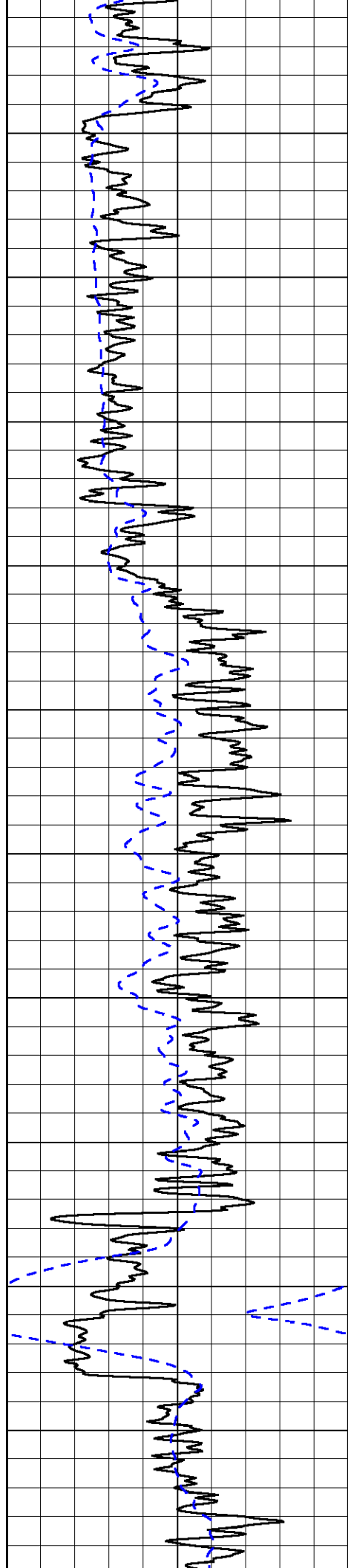
LSPD

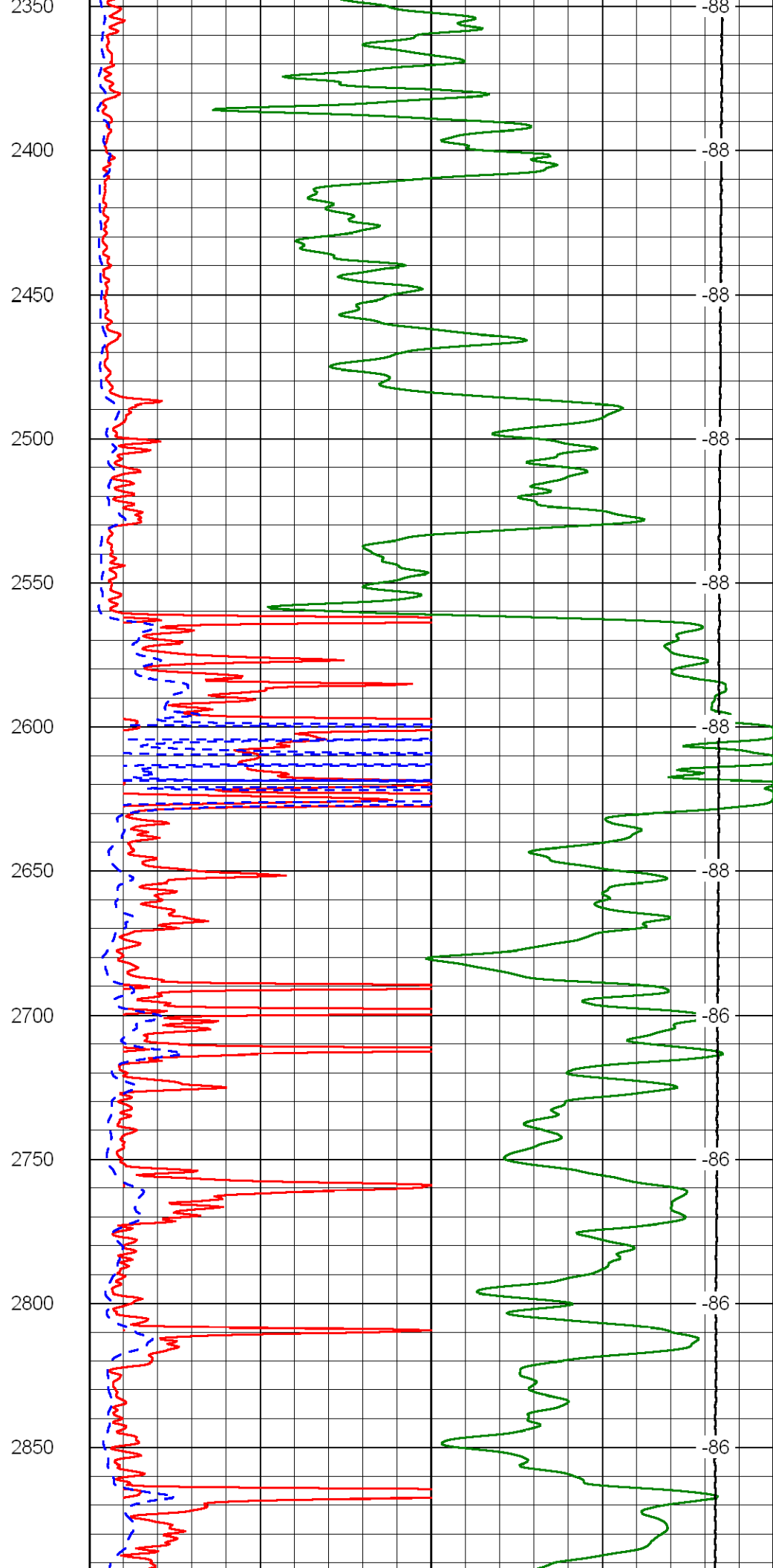
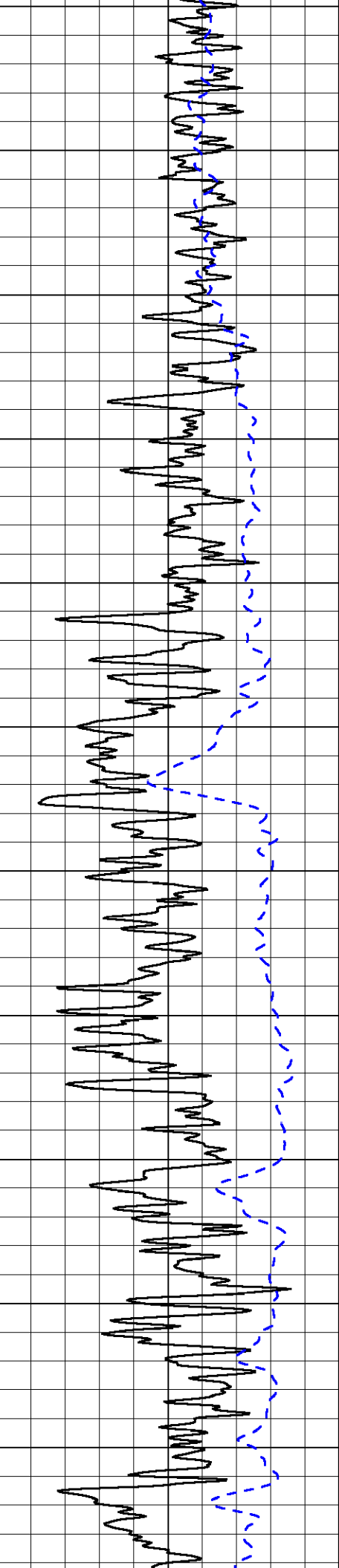


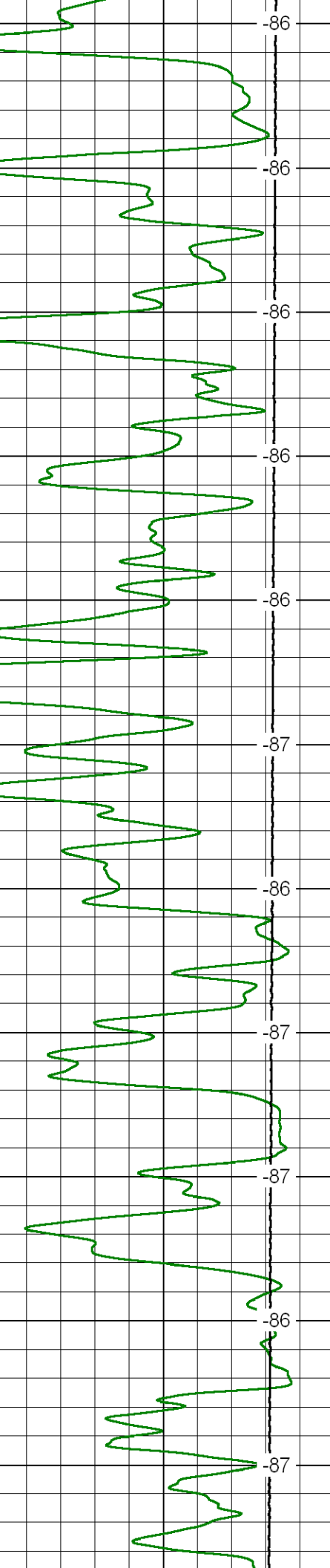
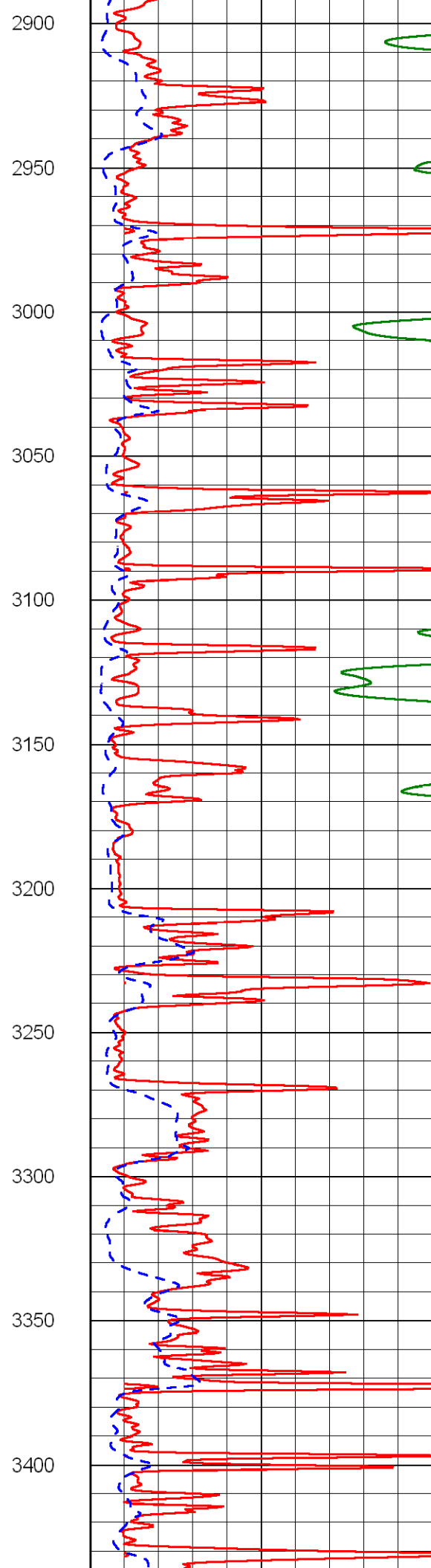
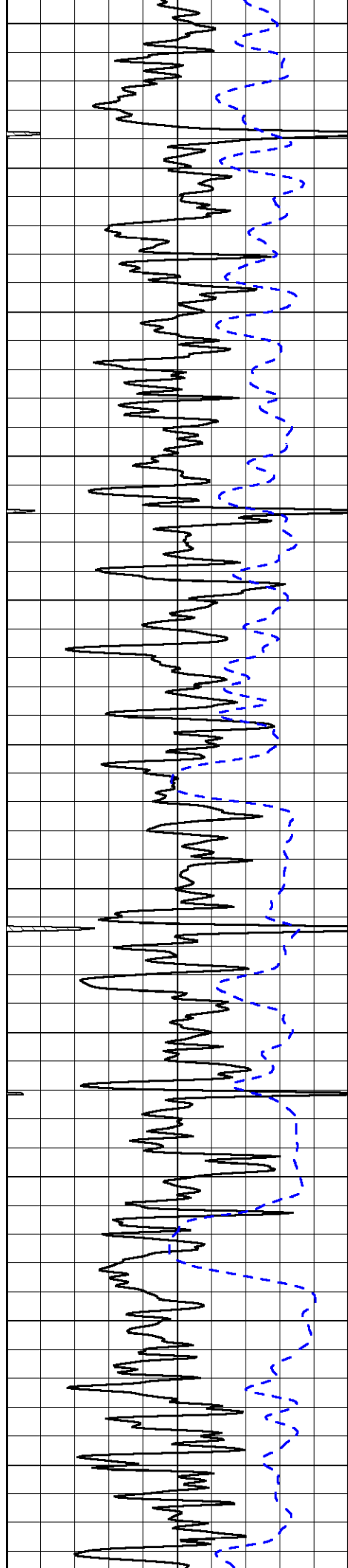


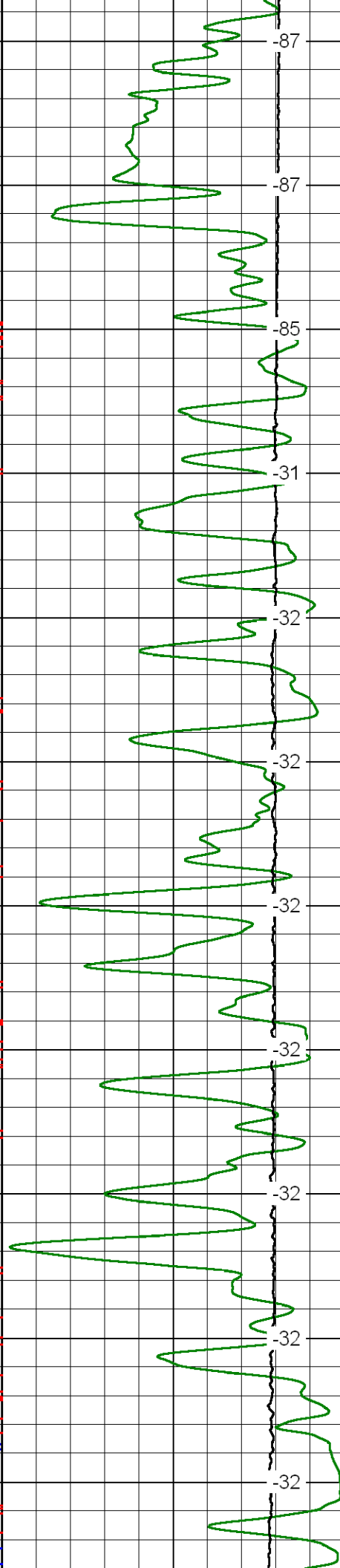
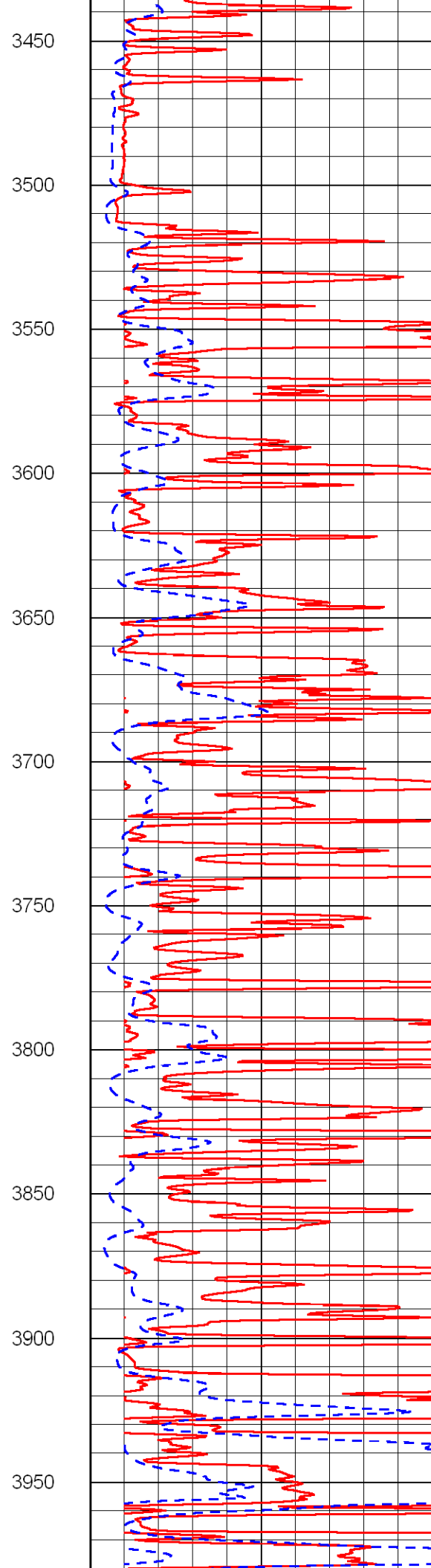
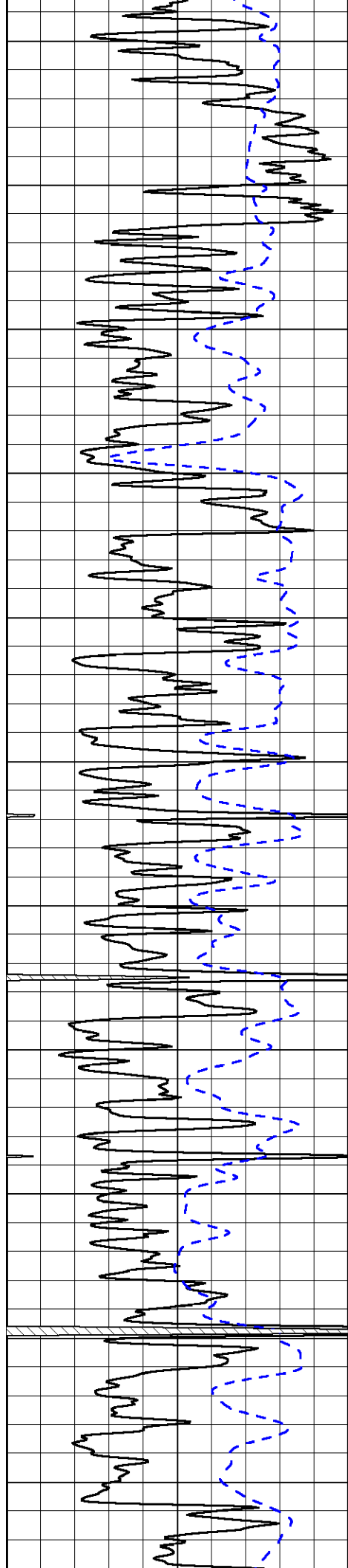
750
800
850
900
950
1000
1050
1100
1150
1200
1250

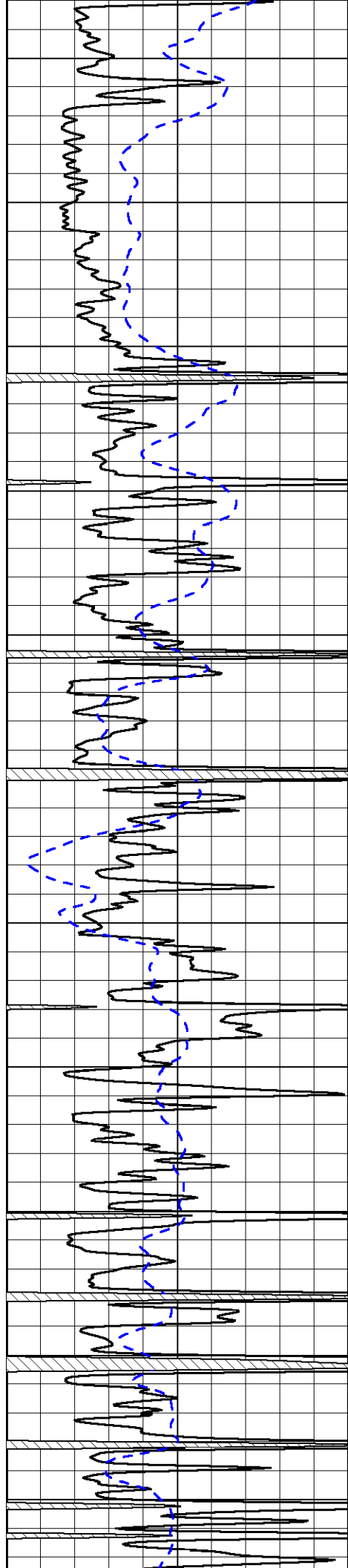












4000

4050

4100

4150

4200

4250

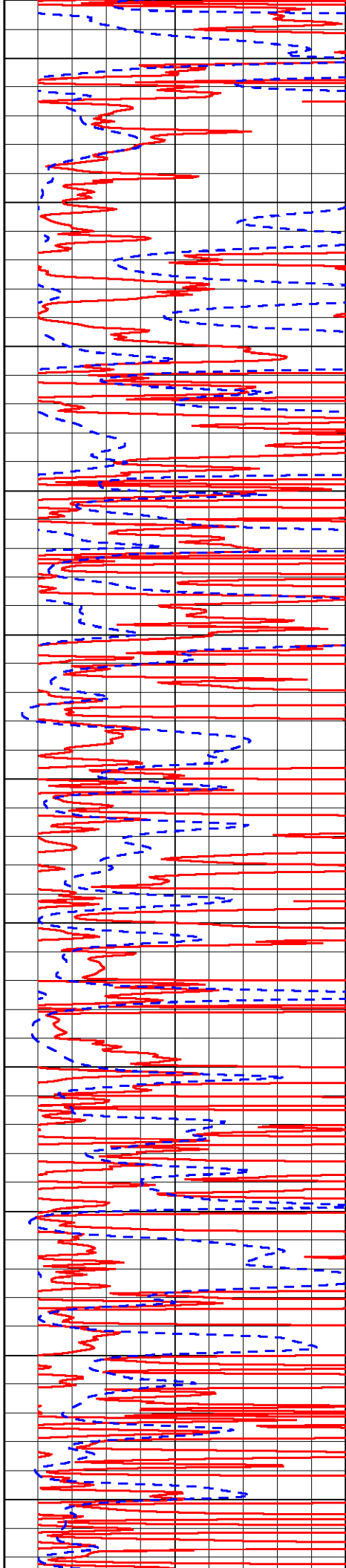
4300

4350

4400

4450

4500



-31

-32

-32

-31

-32

-32

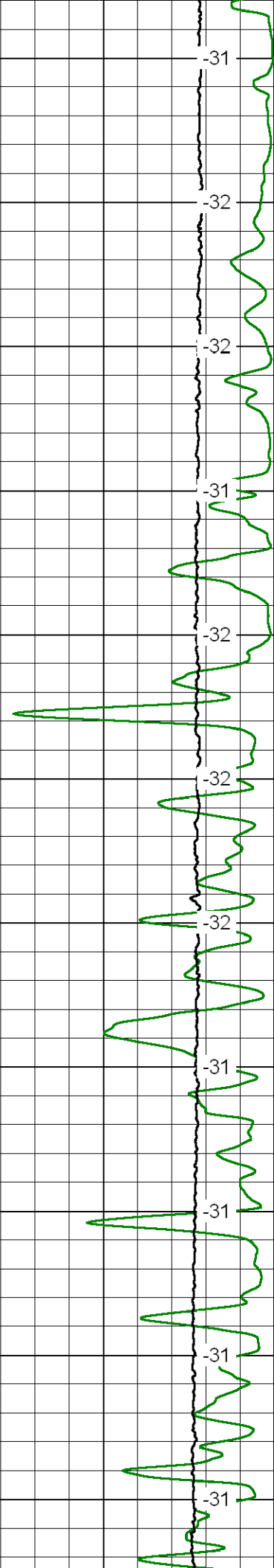
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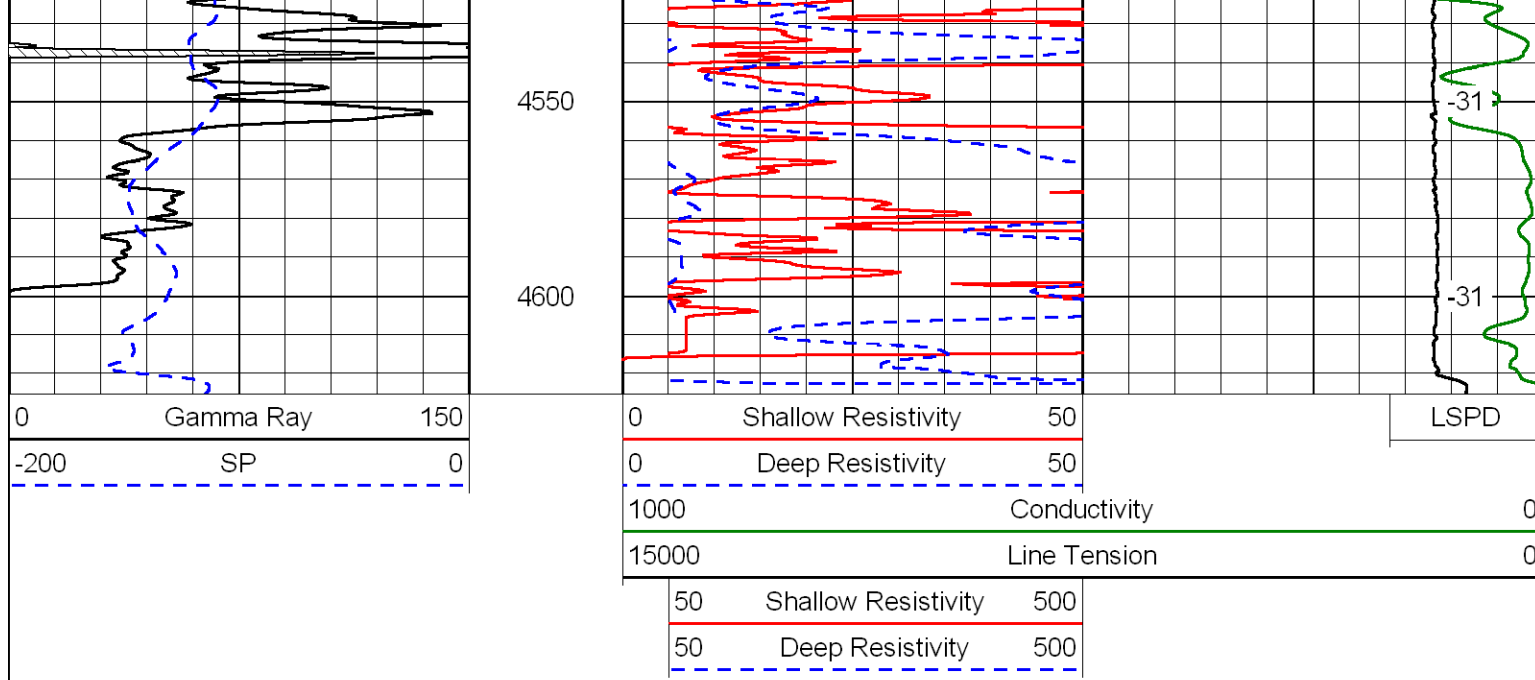
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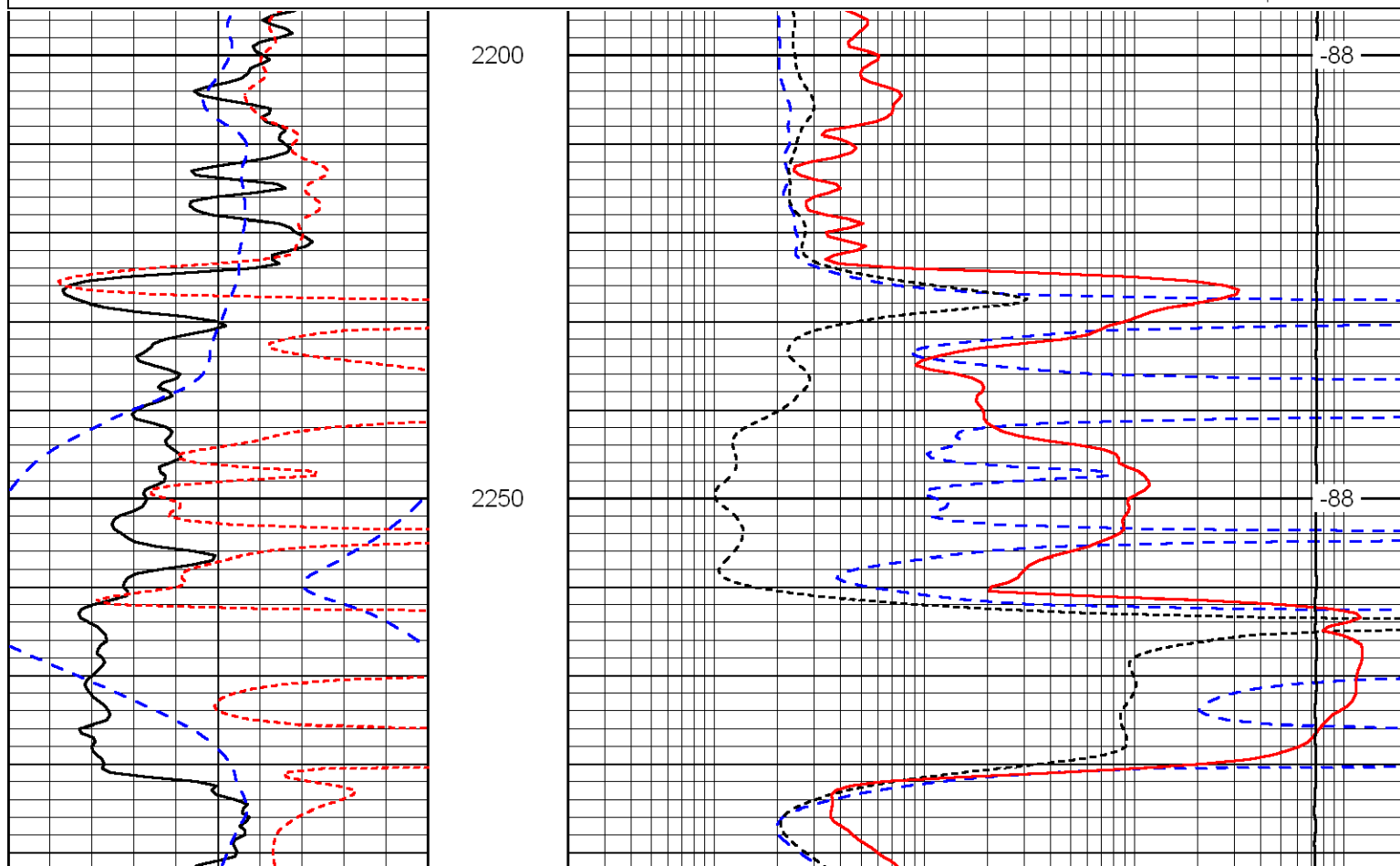
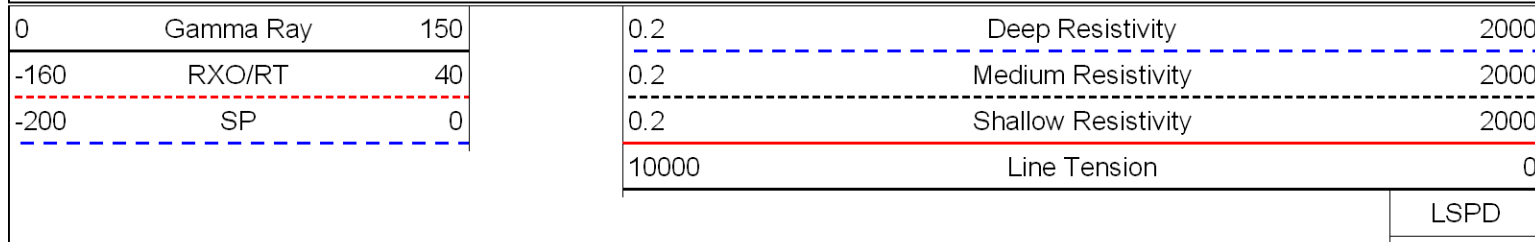
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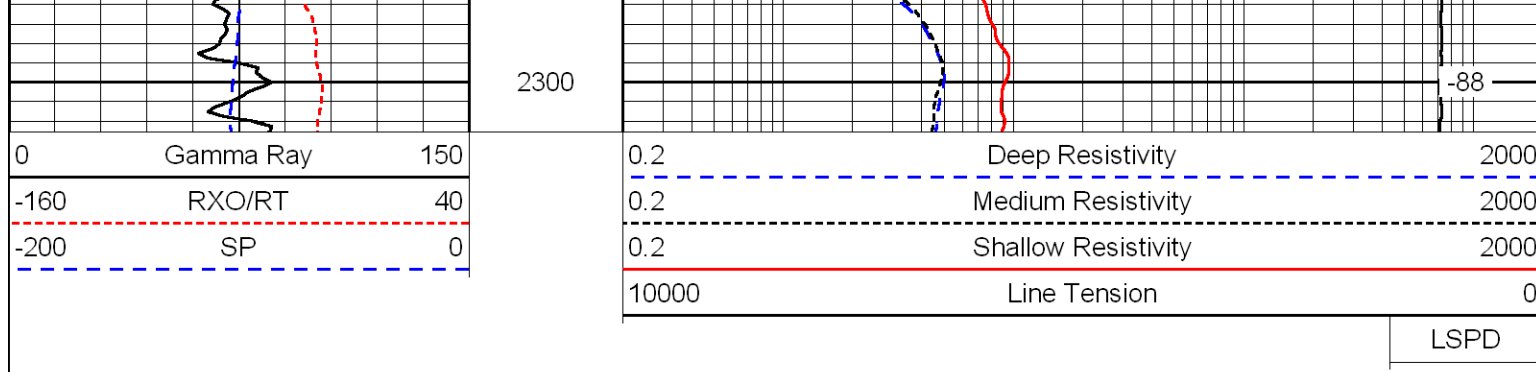
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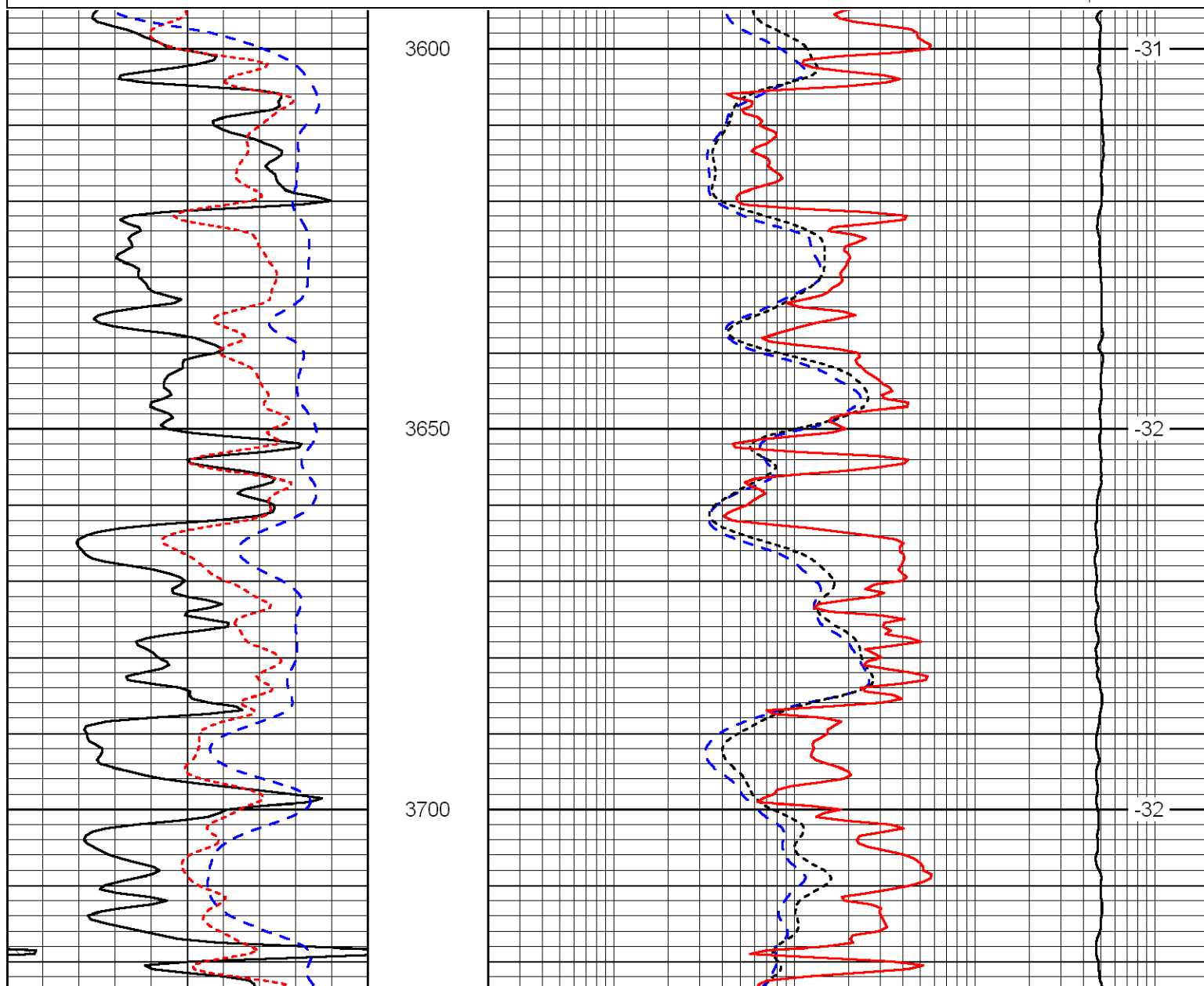
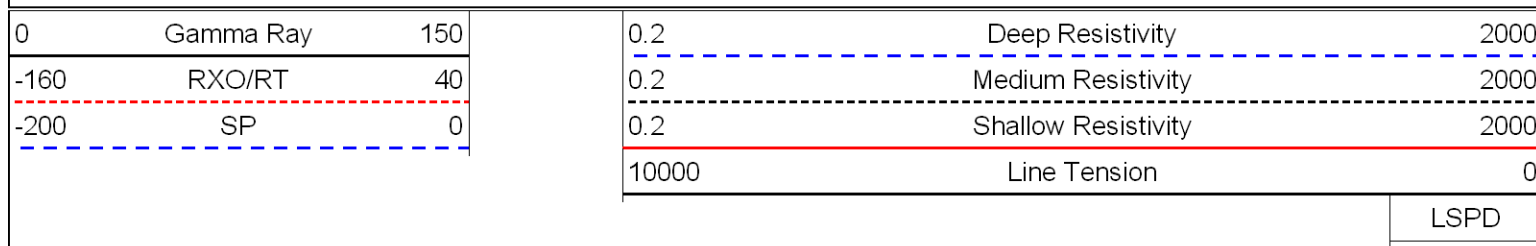


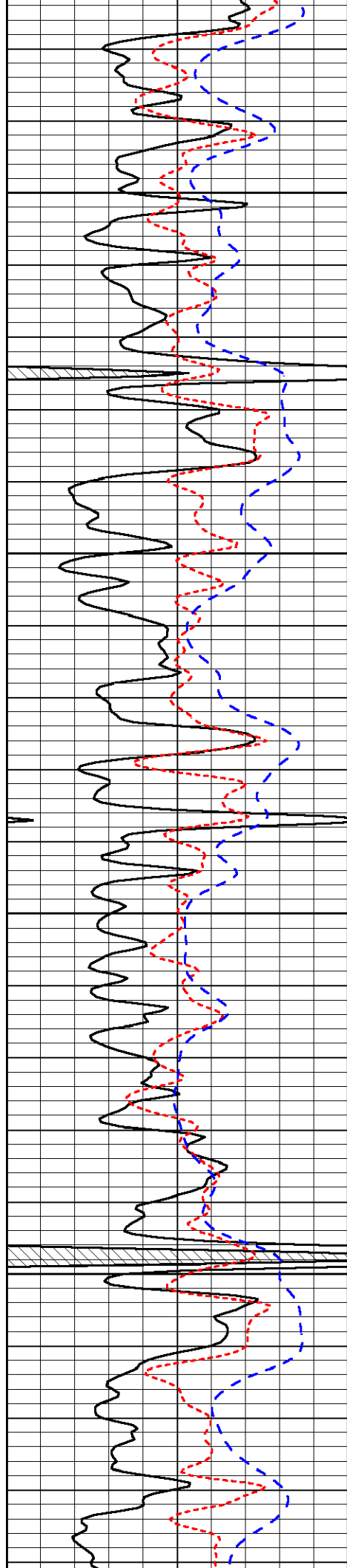
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 Presentation Format: dil
 Dataset Creation: Sat Jul 07 13:18:26 2012
 Charted by: Depth in Feet scaled 1:240





Database File: larson_cramer_1_17hd.db
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 Presentation Format: dil
 Dataset Creation: Sat Jul 07 13:18:26 2012
 Charted by: Depth in Feet scaled 1:240



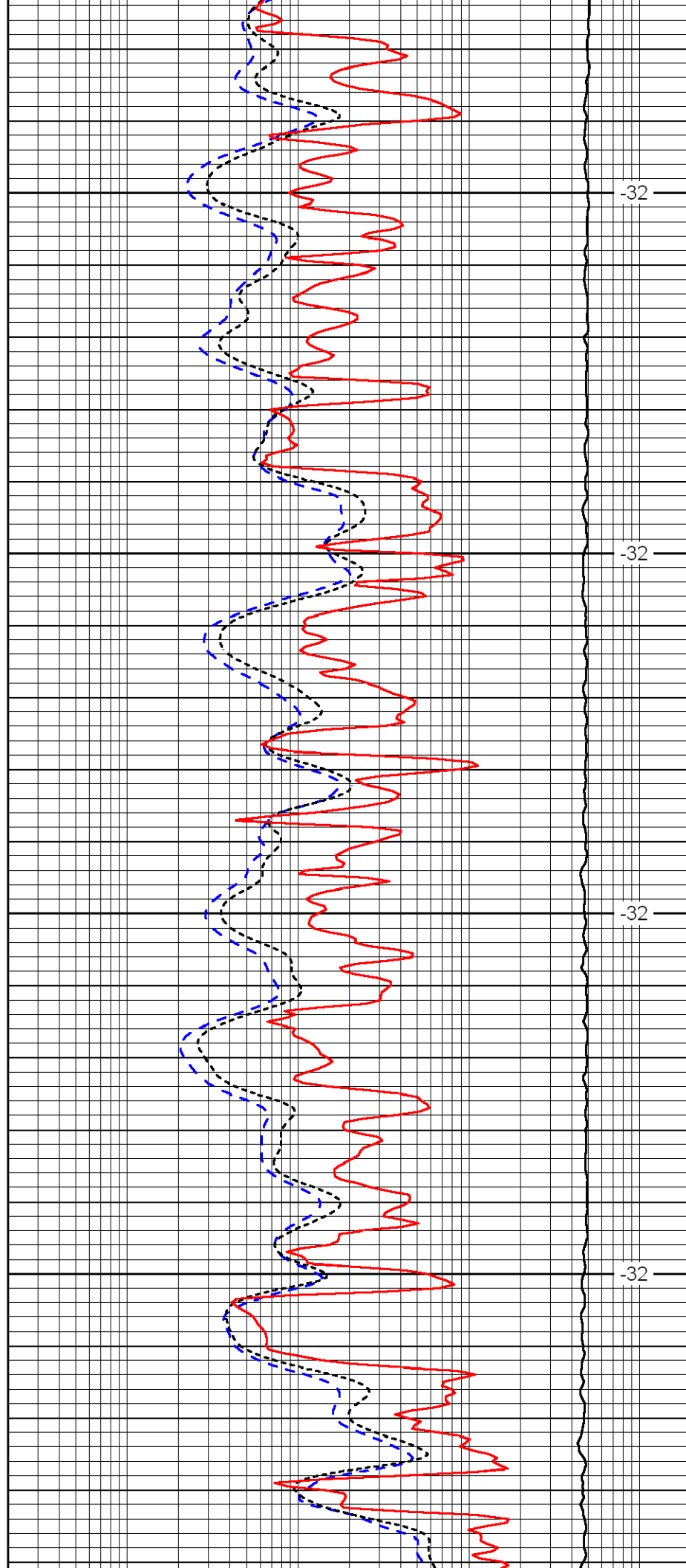


3750

3800

3850

3900

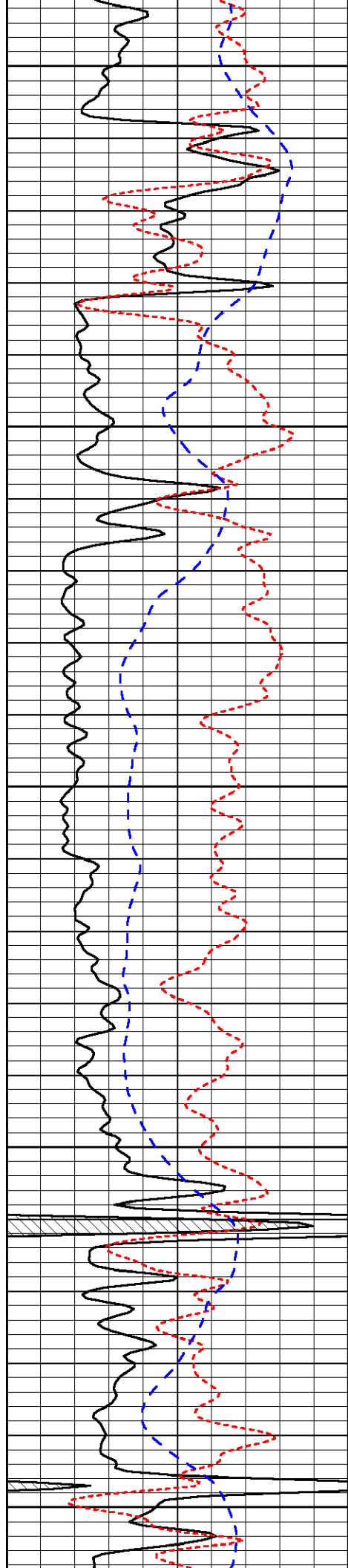


-32

-32

-32

-32



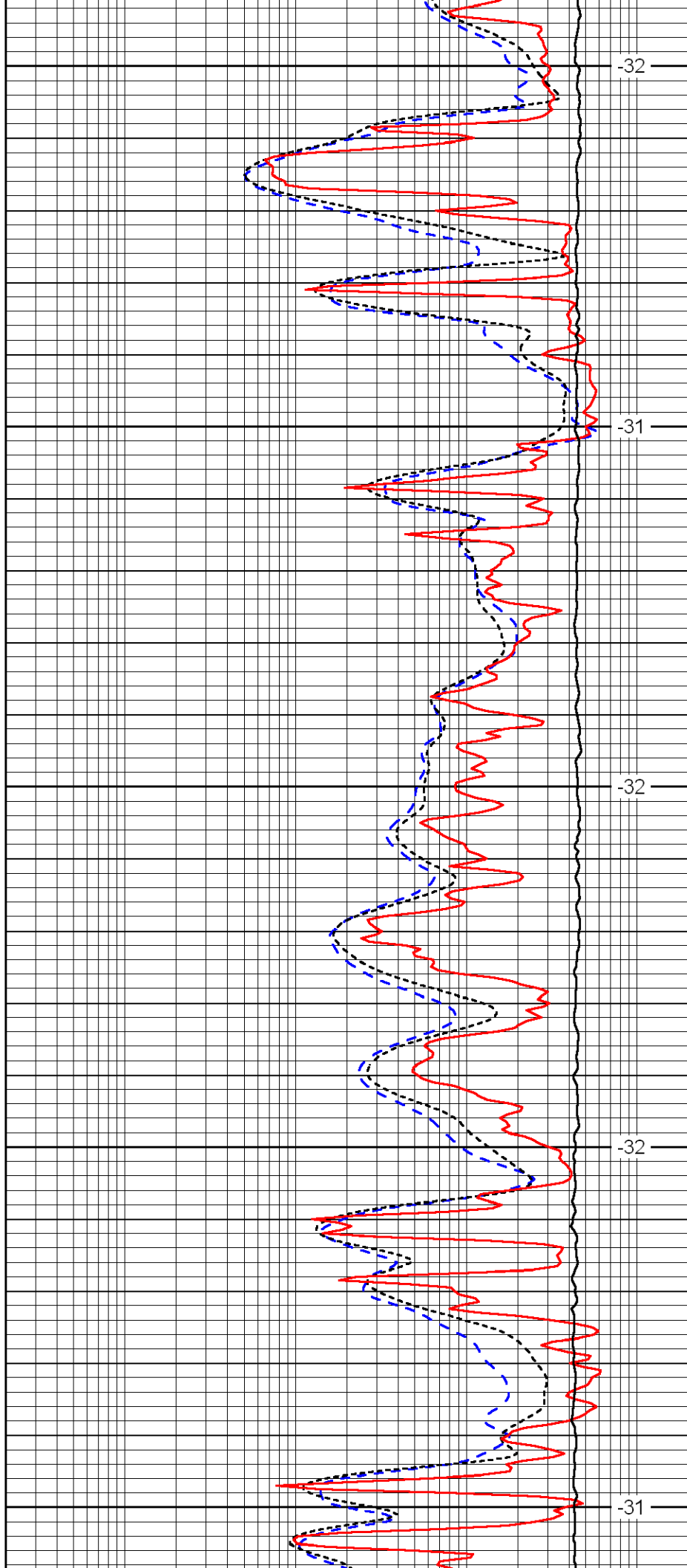
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4000

4050

4100

4150



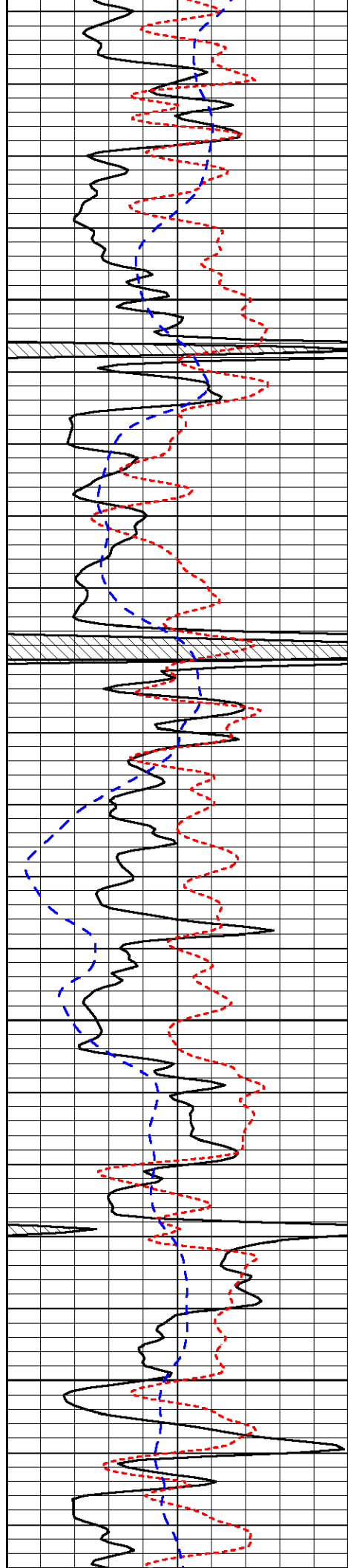
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-31

-32

-32

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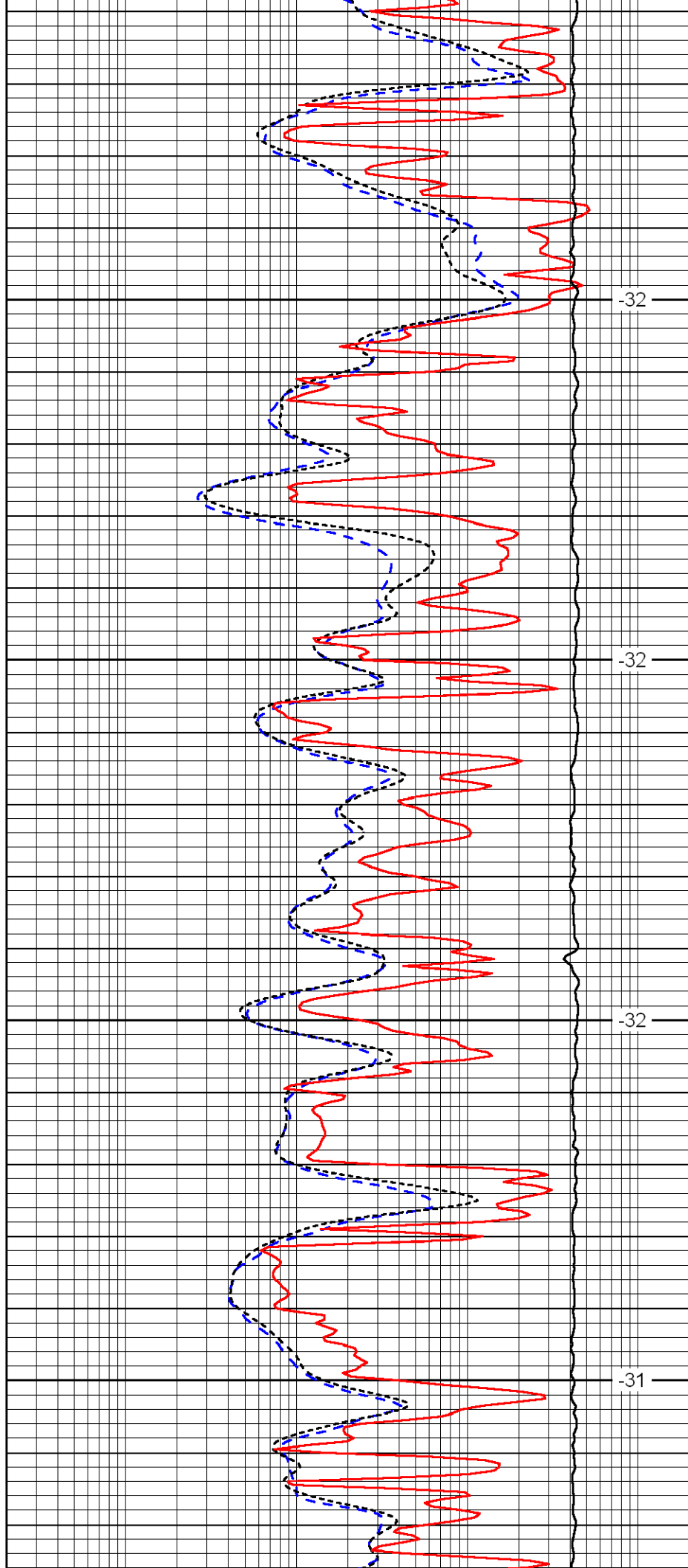


4200

4250

4300

4350

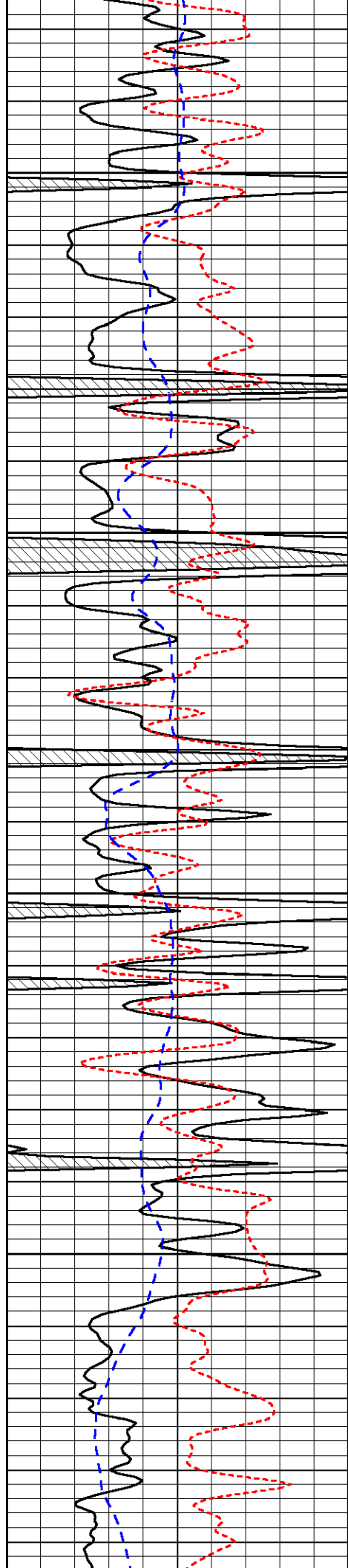


-32

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-32

-31

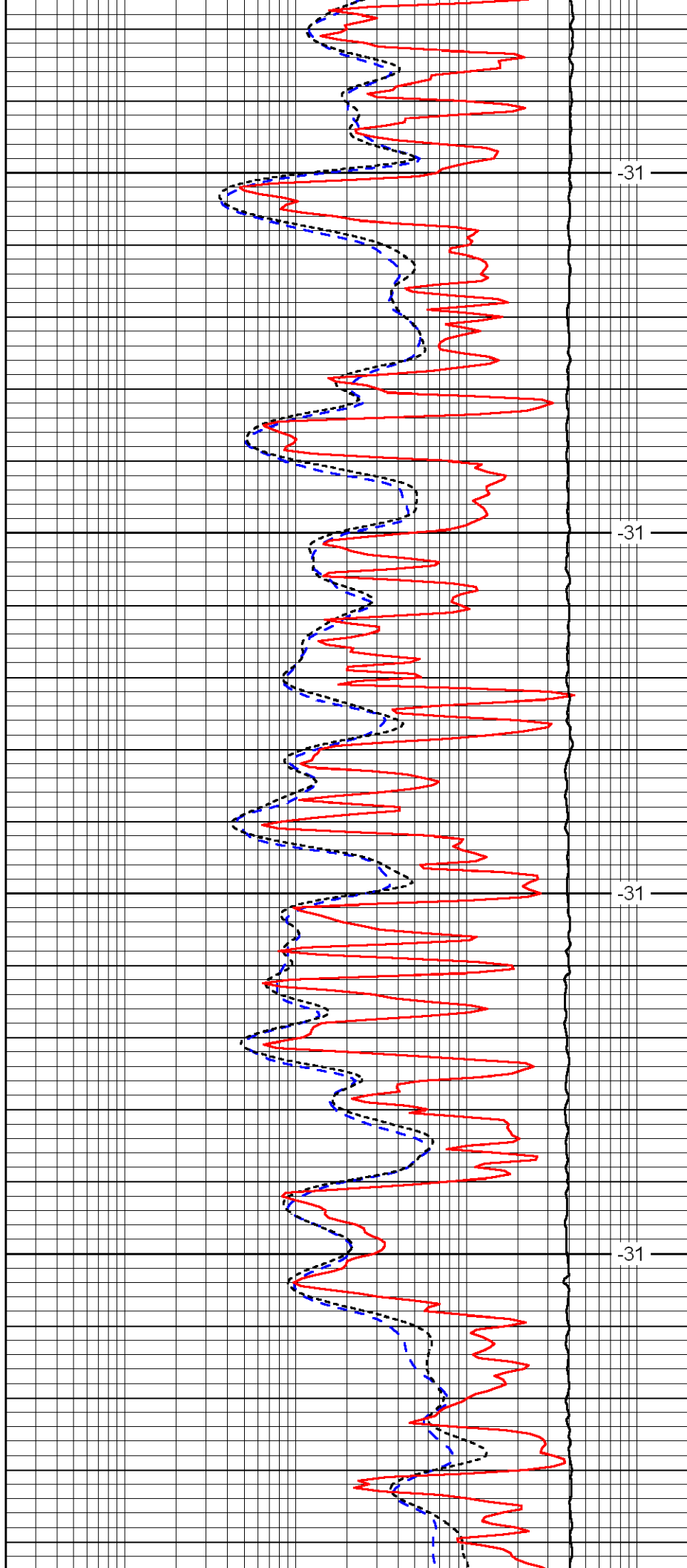


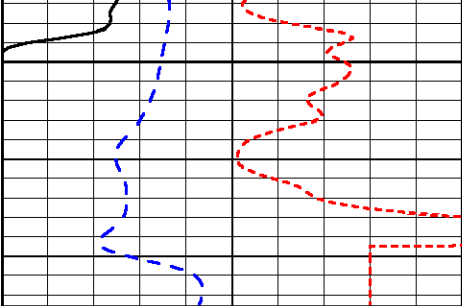
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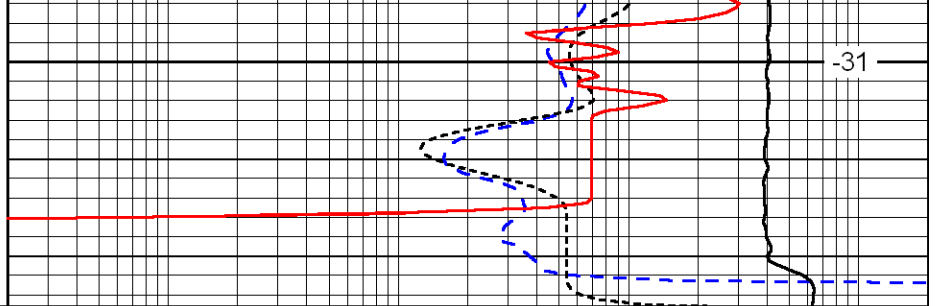
4550





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

4600



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

LSPD