



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-055-22,312-00-00

Company **American Warrior, Inc.**

Well **O'Brate-Finney No. 3-15**

Field **Unknown**

County **Finney** State **Kansas**

Location **NE-SW-SW-SW
335' FSL & 571' FWL**

Sec: **15** Twp: **25S** Rge: **31W**

Other Services
CNL/CDL
MEL

Permanent Datum **Ground Level** Elevation **2790**

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

K.B. 2801
D.F.
G.L. 2790

Drilling Measured From **Kelly Bushing**

Date **6/21/14**

Run Number **One**

Depth Driller **5000**

Depth Logger **4998**

Bottom Logged Interval **4997**

Top Log Interval **1650**

Casing Driller **8.625 @ 1689**

Casing Logger **1700**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **2,500**

Density / Viscosity **9.45 54**

pH / Fluid Loss **10.5 8.58**

Source of Sample **Flowline**

Rm @ Meas. Temp **.65 @ 79**

Rmf @ Meas. Temp **.49 @ 79**

Rmc @ Meas. Temp **.88 @ 79**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.41 @ 79**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **126**

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

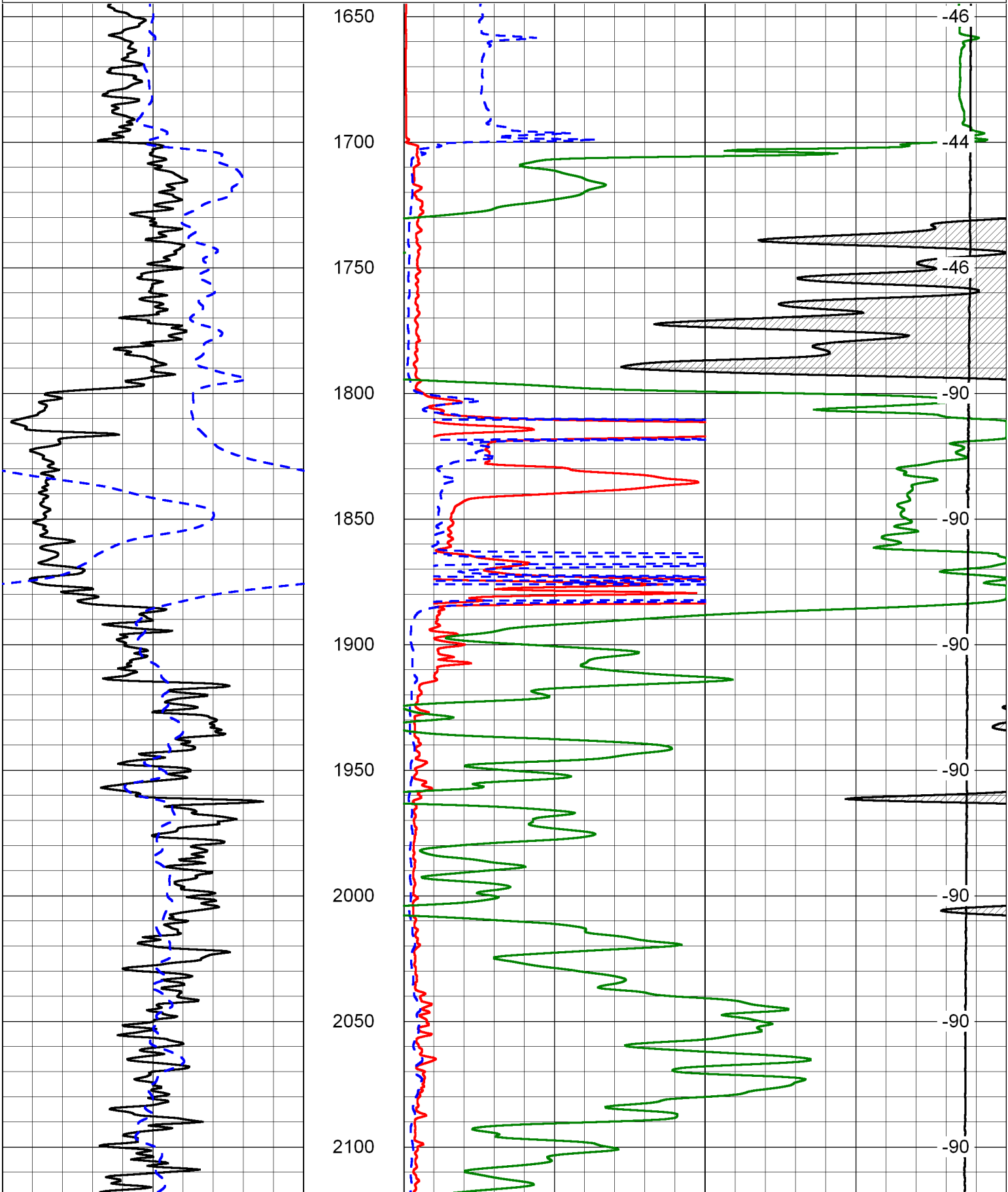
Thank you for using Log-Tech, Inc.
(785) 625-3858

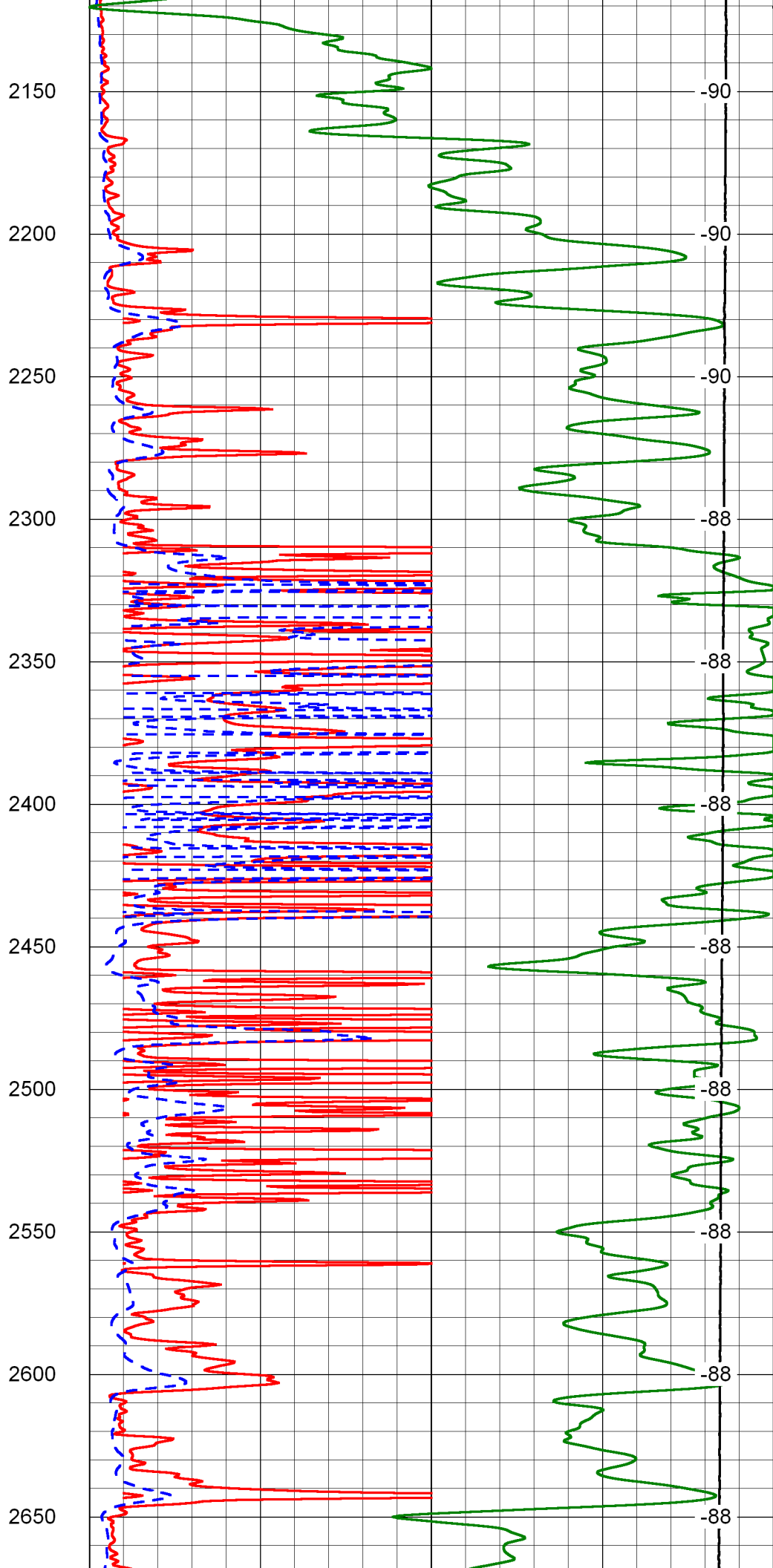
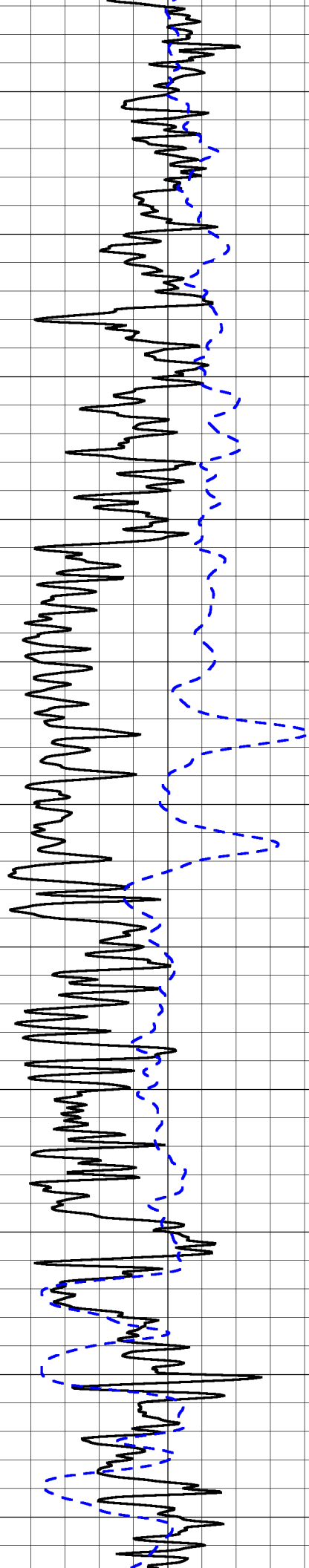
Pierceville Kansas
1 South to Beach Rd, 2 West, North/East Into

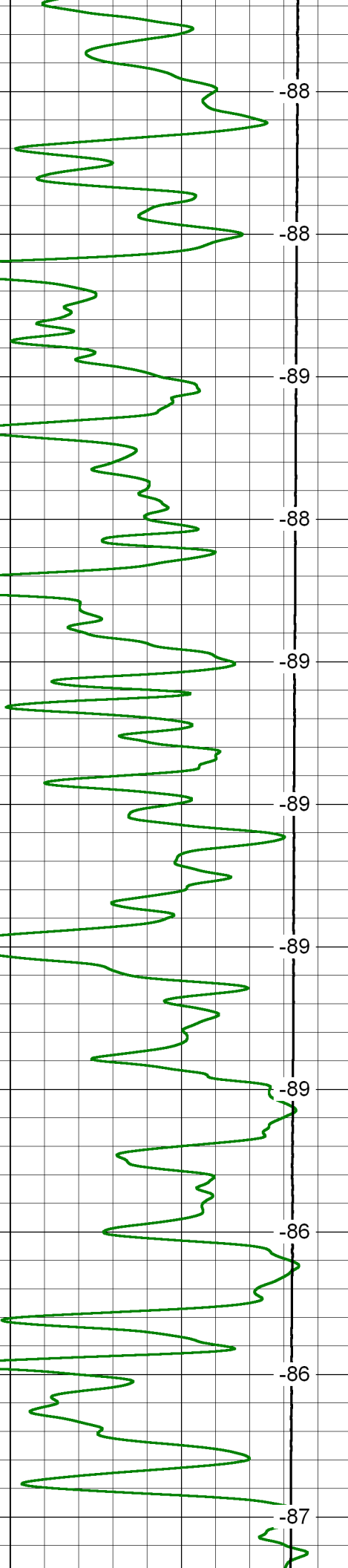
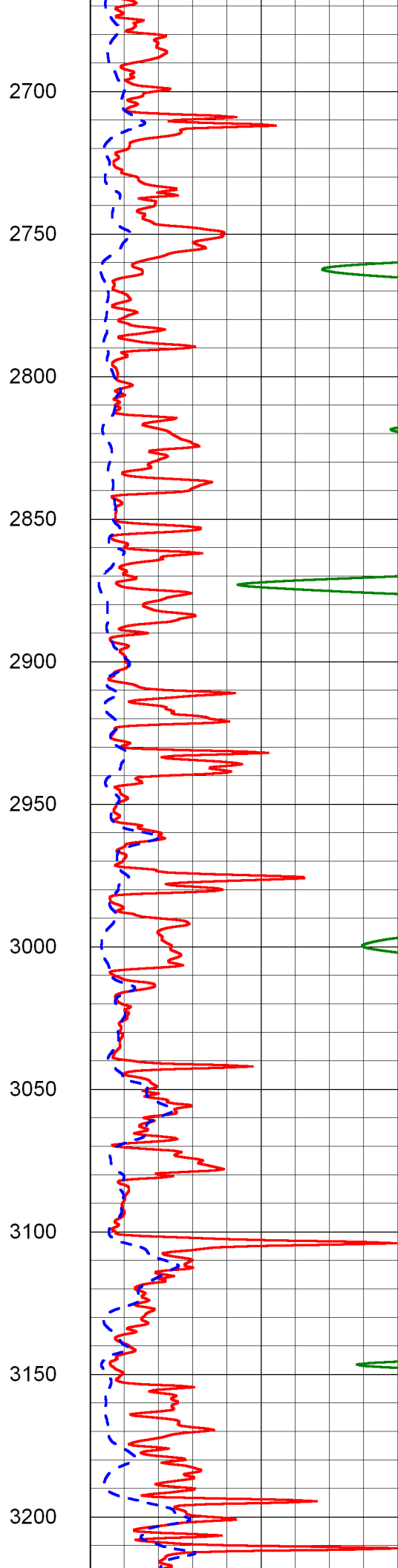
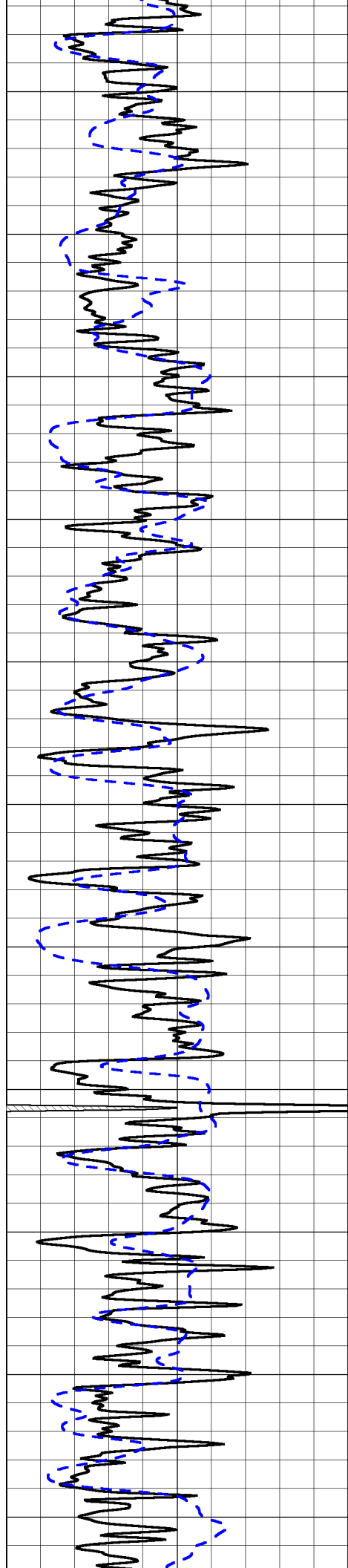
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Charted by: Depth in Feet scaled 1:600

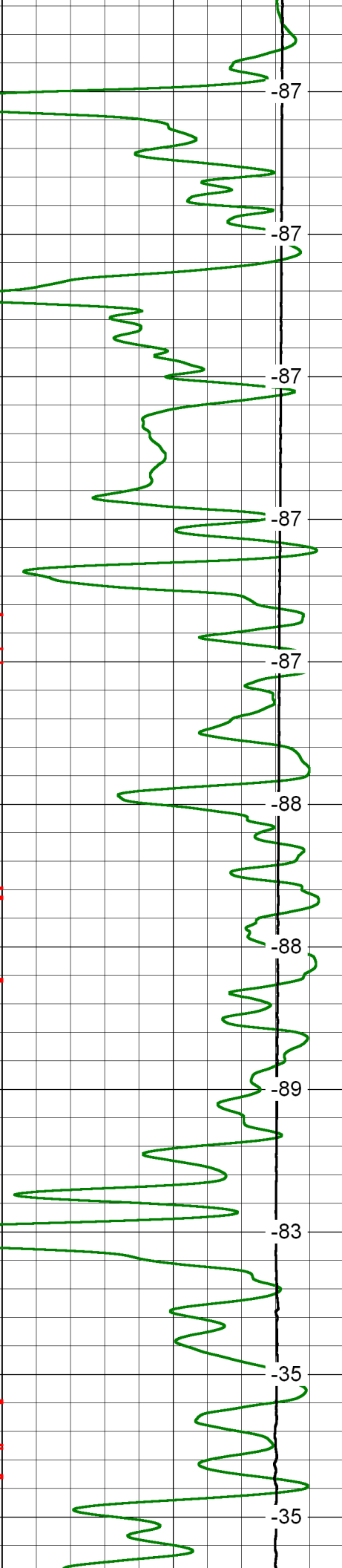
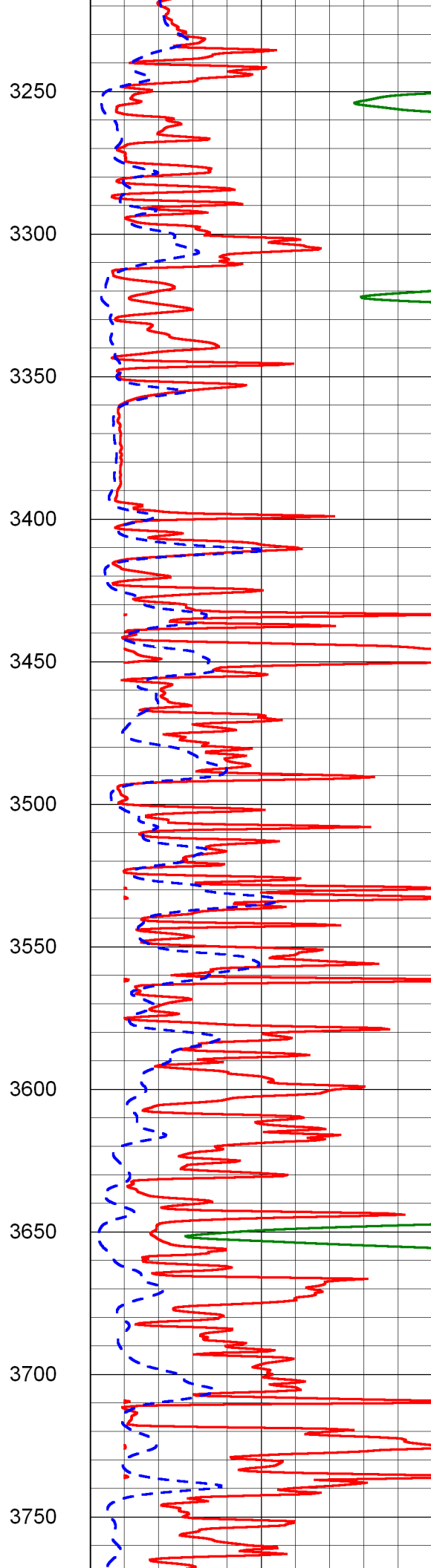
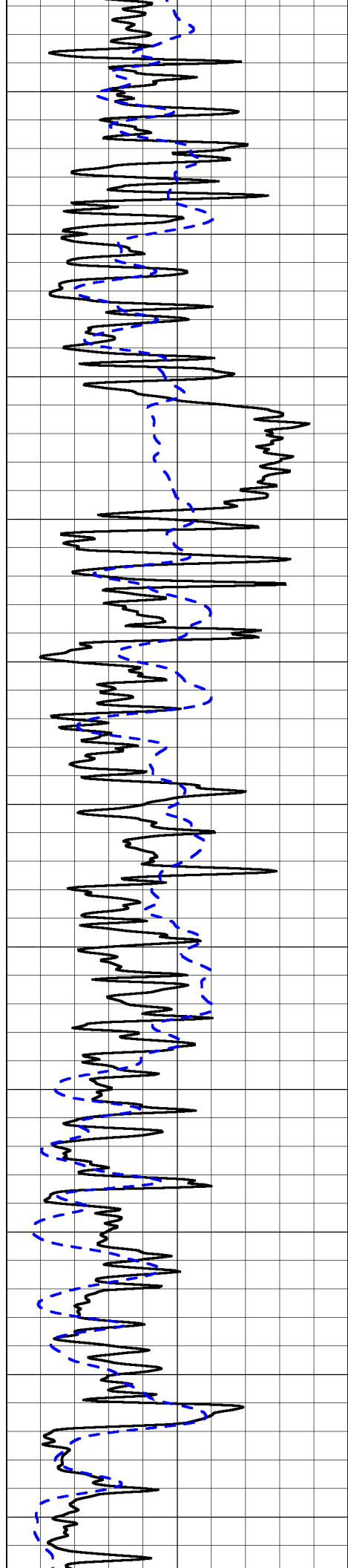
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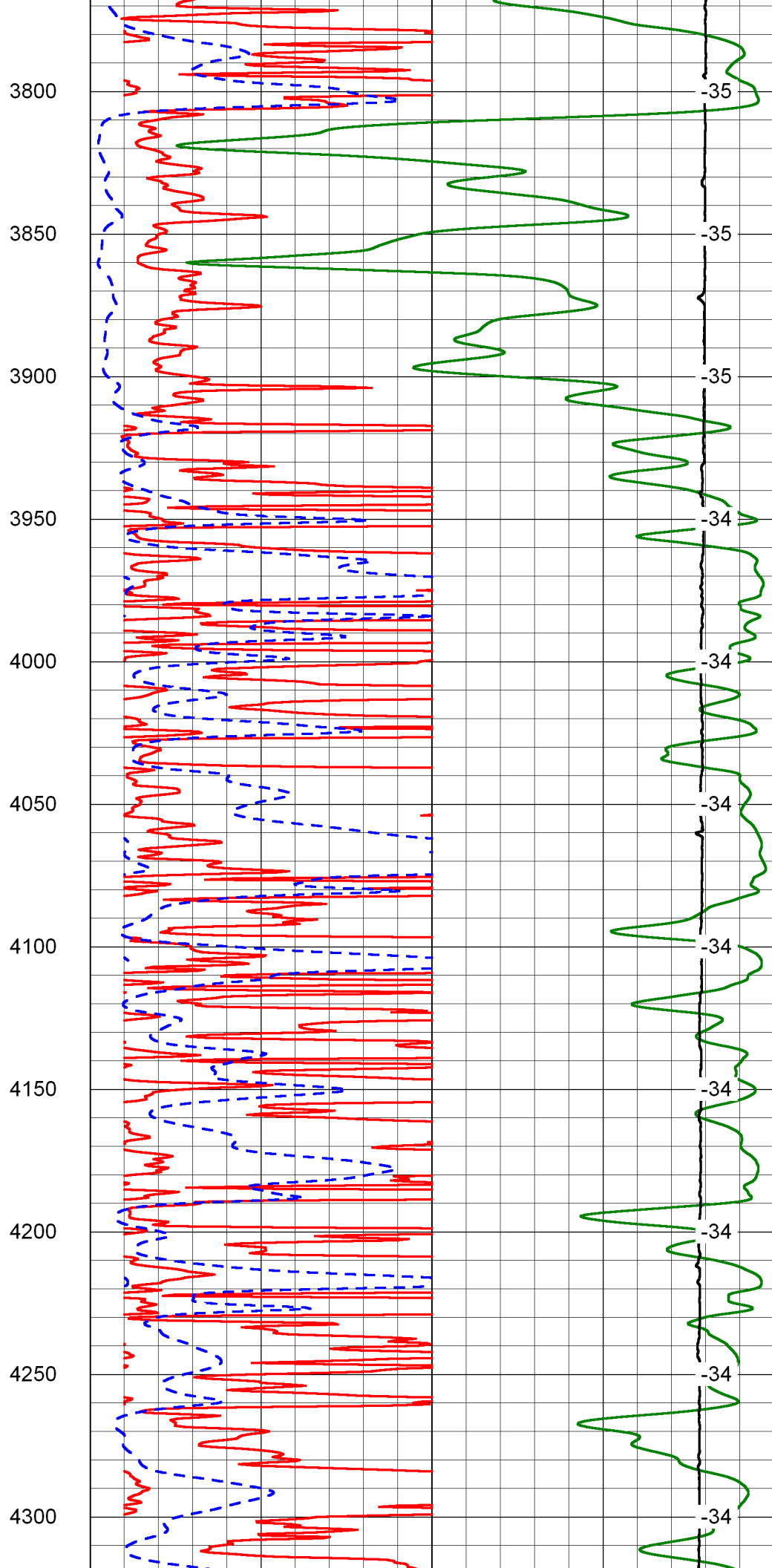
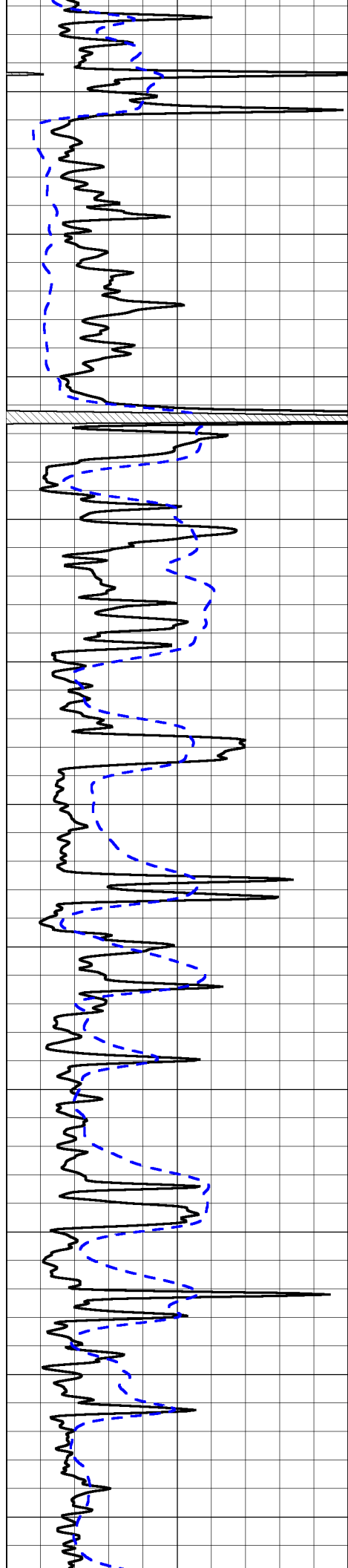
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

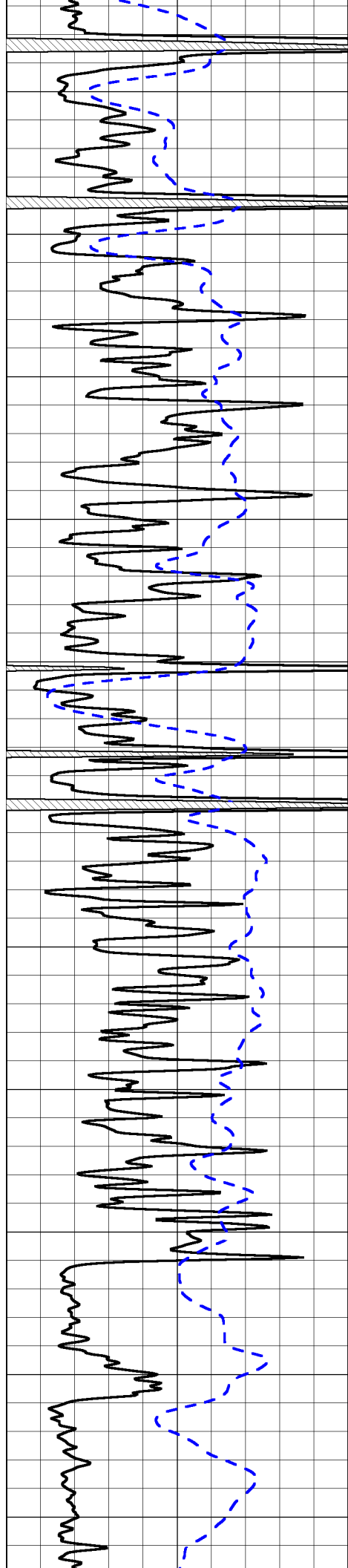












4350

4400

4450

4500

4550

4600

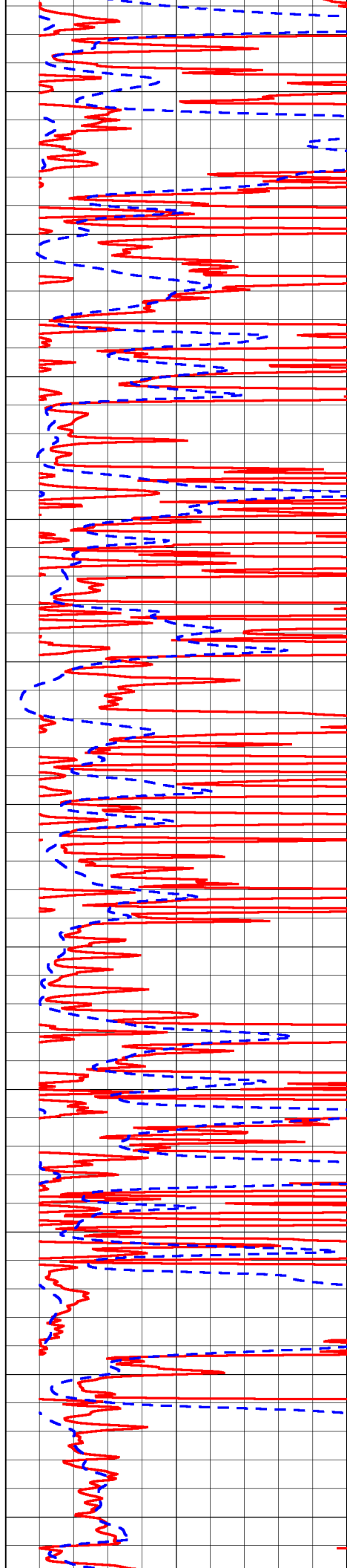
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4700

4750

4800

4850



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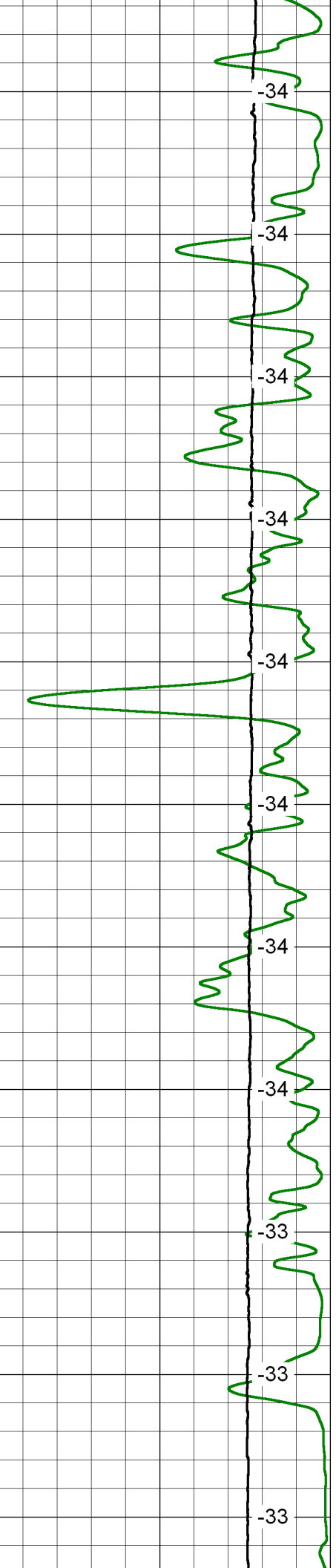
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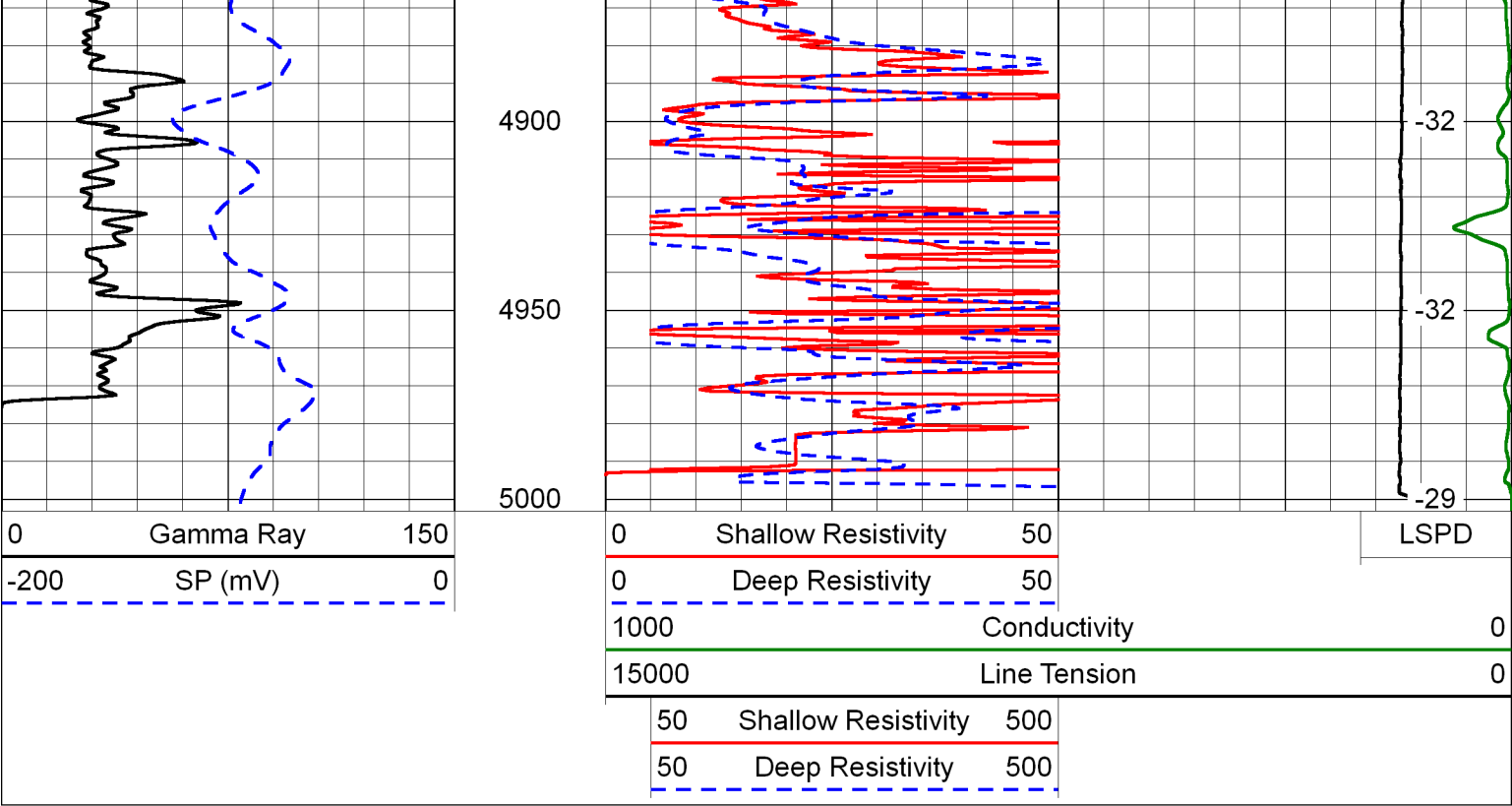
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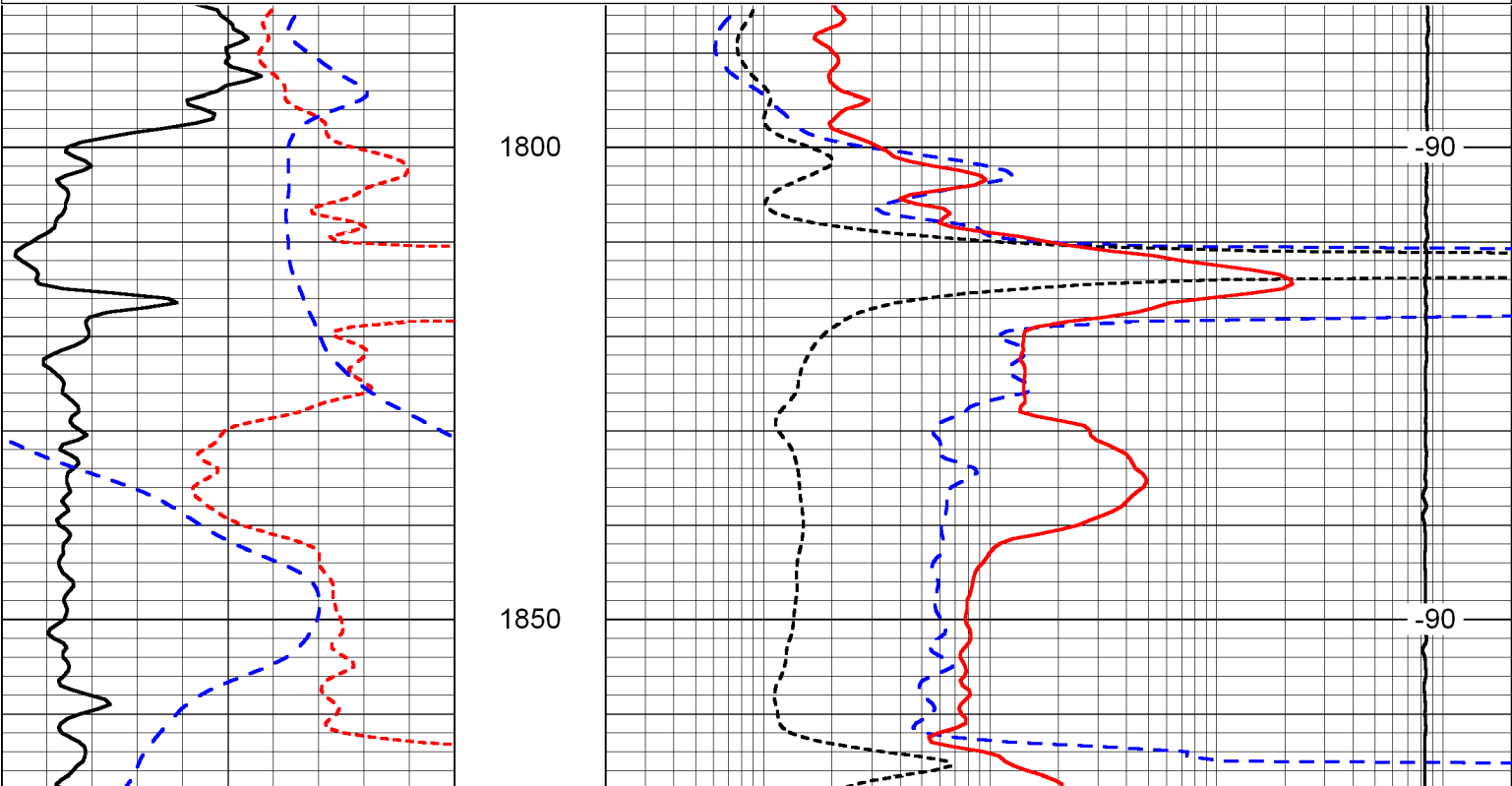
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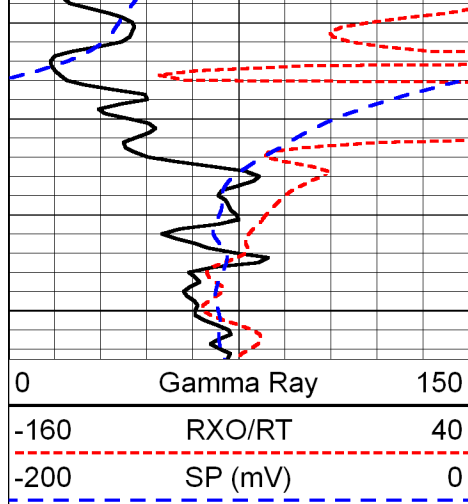




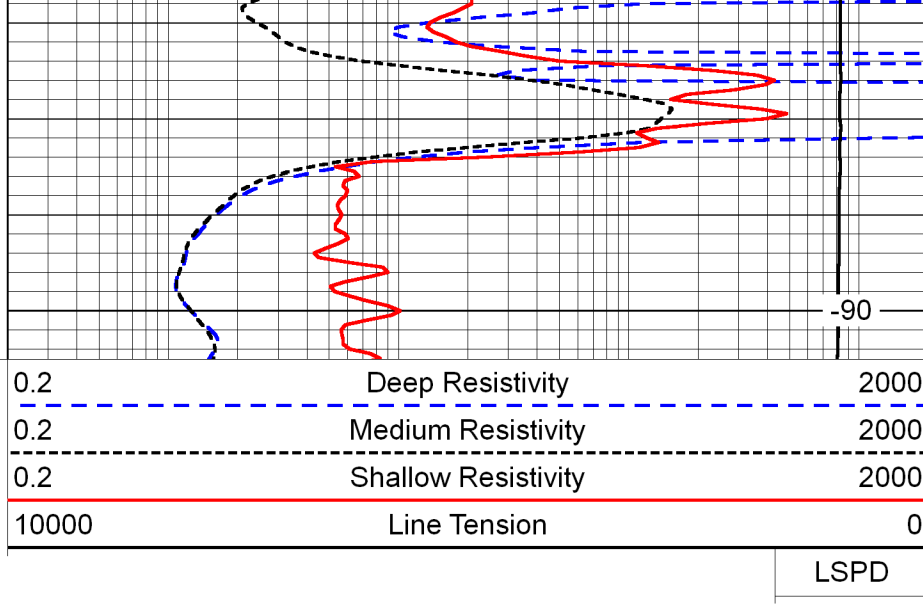
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Charted by:		Depth in Feet scaled 1:240	

0	Gamma Ray	150		0.2	Deep Resistivity	2000
-160	RXO/RT	40		0.2	Medium Resistivity	2000
-200	SP (mV)	0		0.2	Shallow Resistivity	2000
				10000	Line Tension	0
				LSPD		

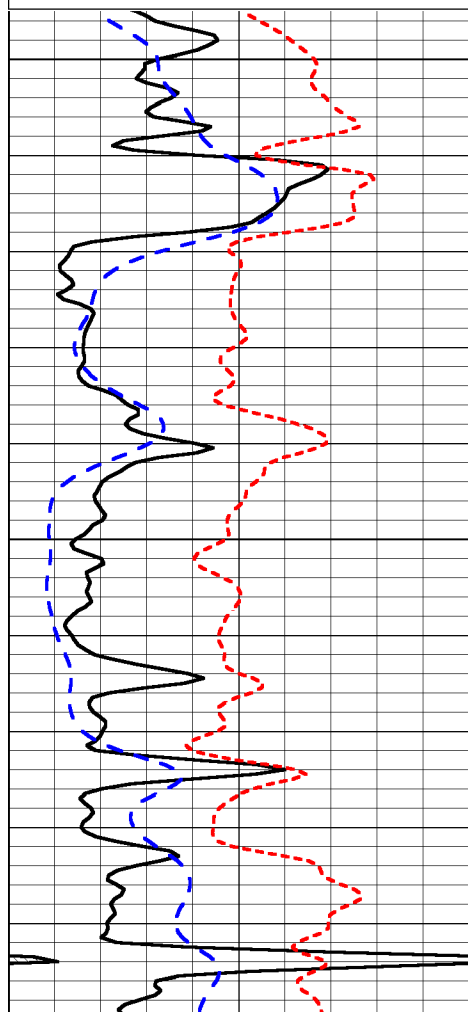
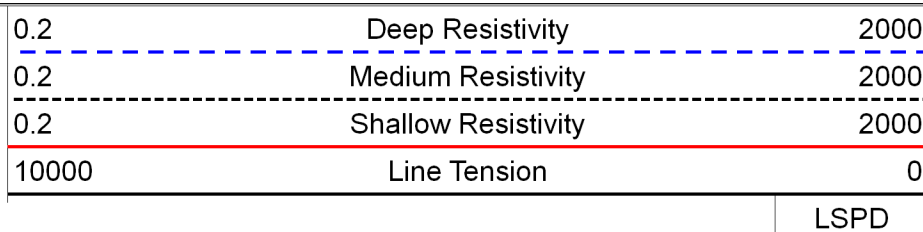
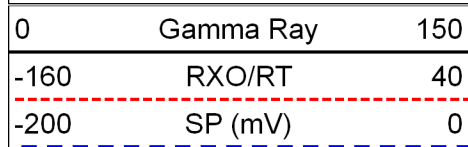




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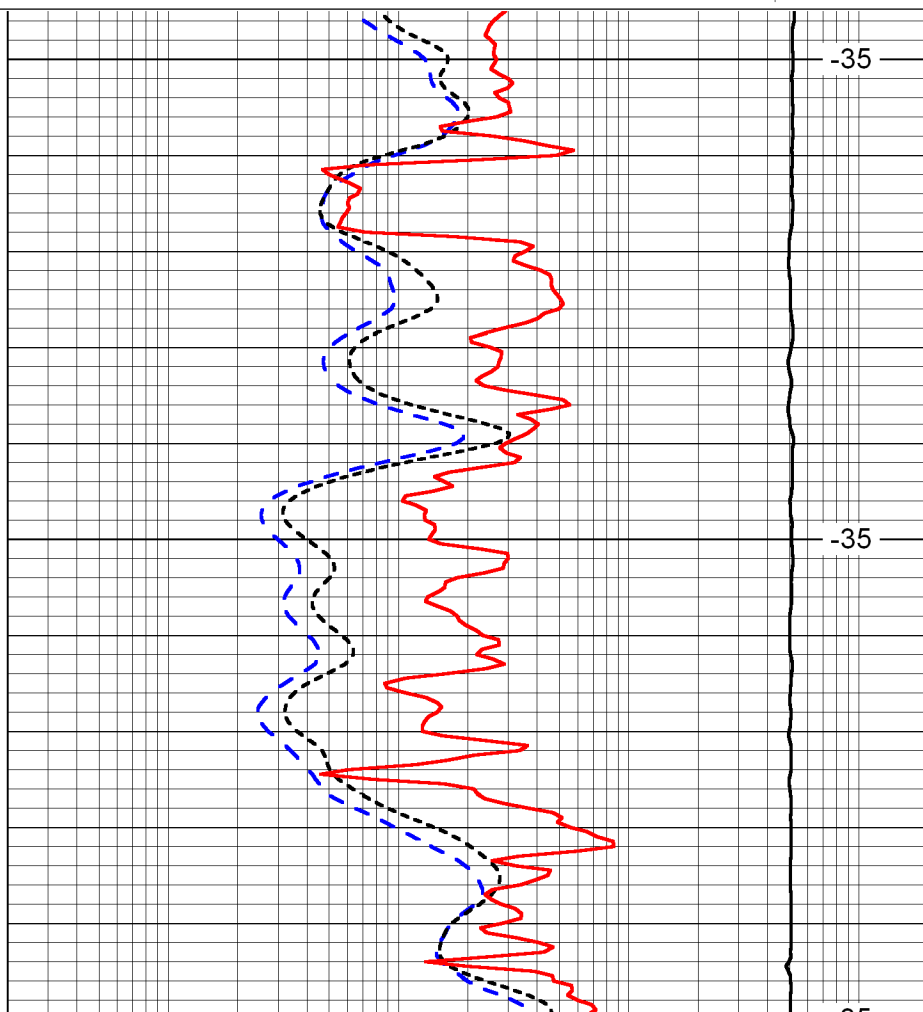


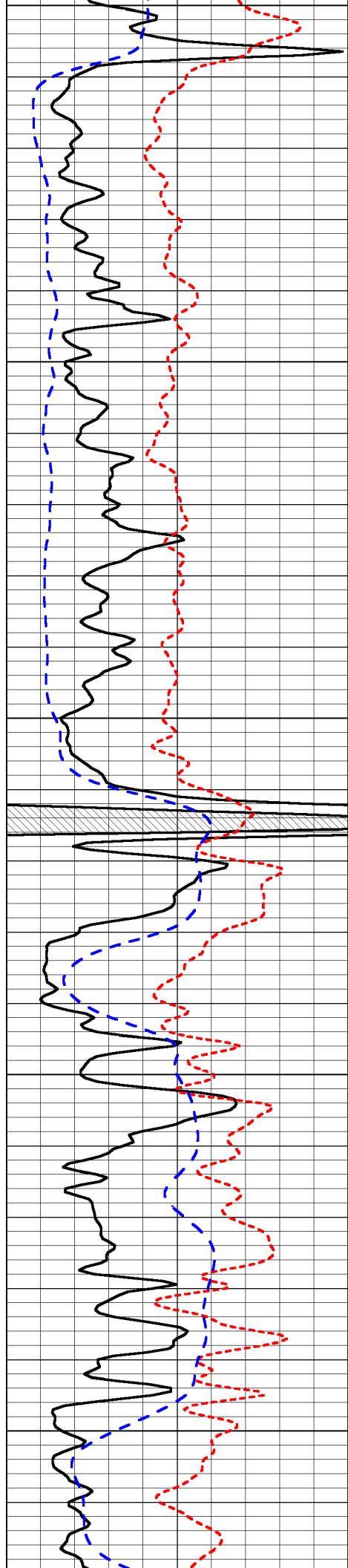
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3700

3750





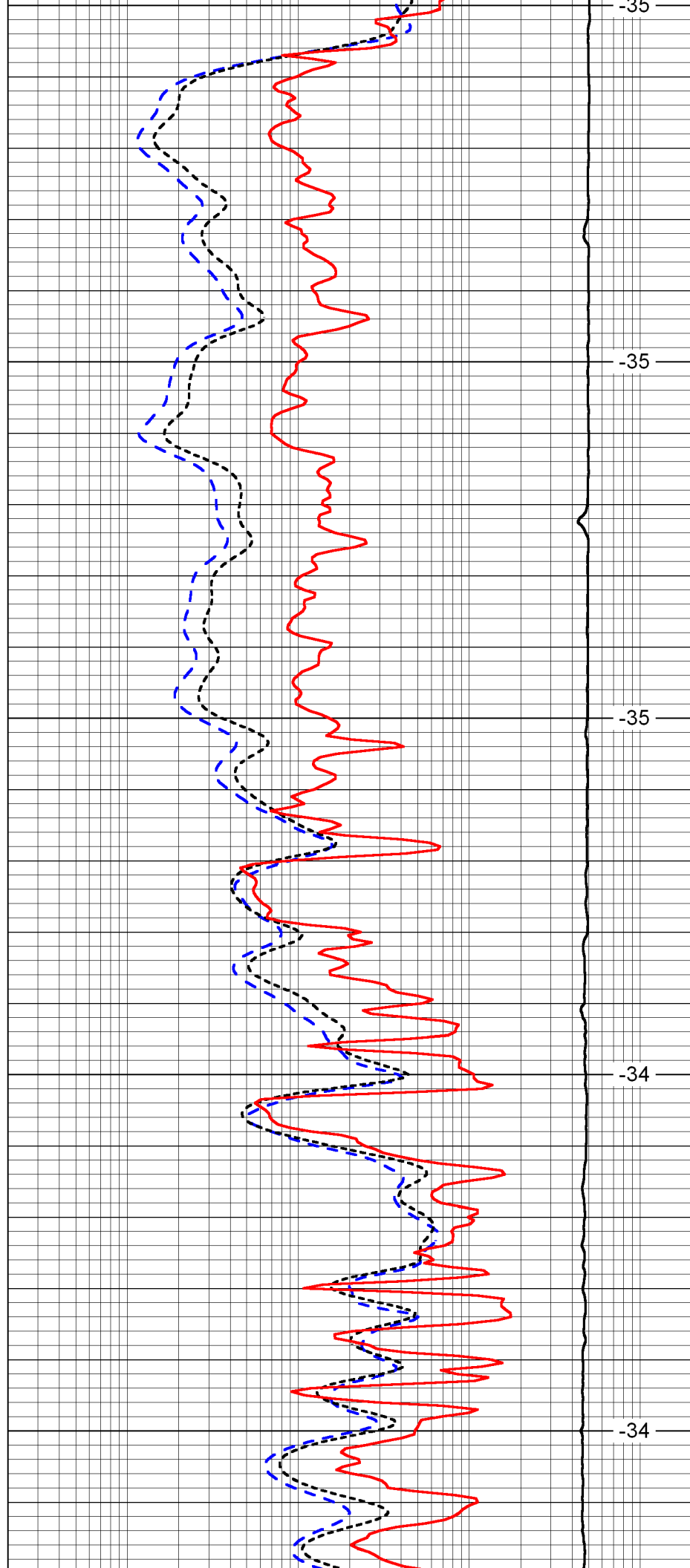
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3850

3900

3950

4000



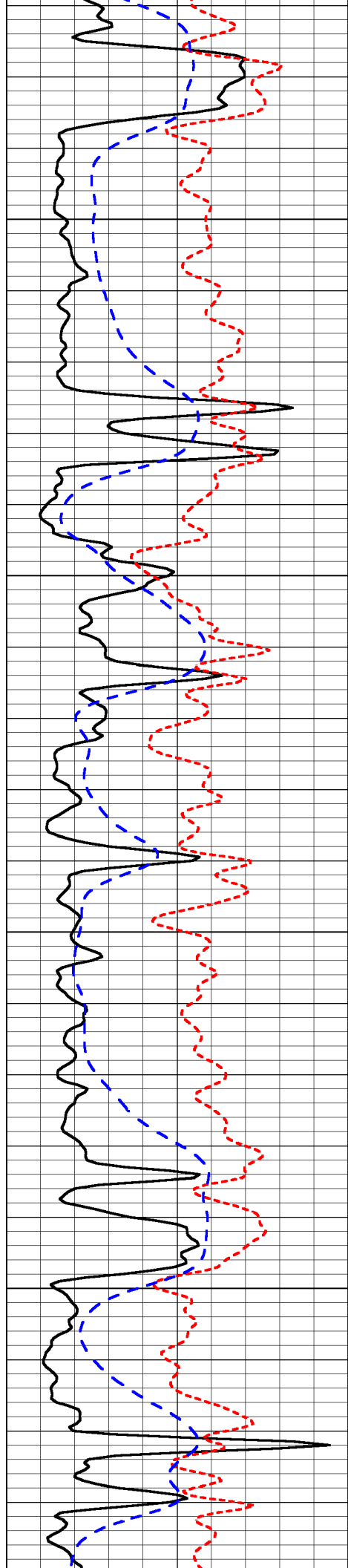
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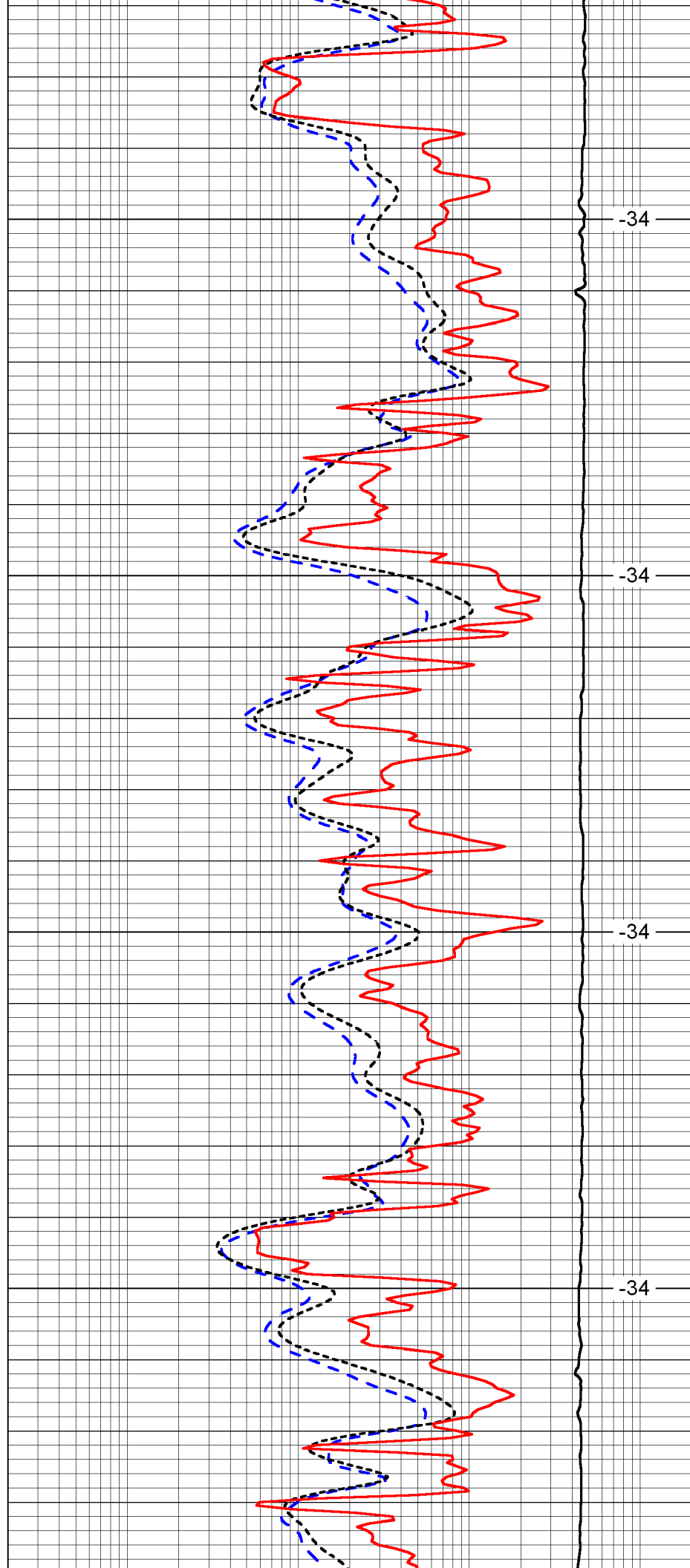


4050

4100

4150

4200

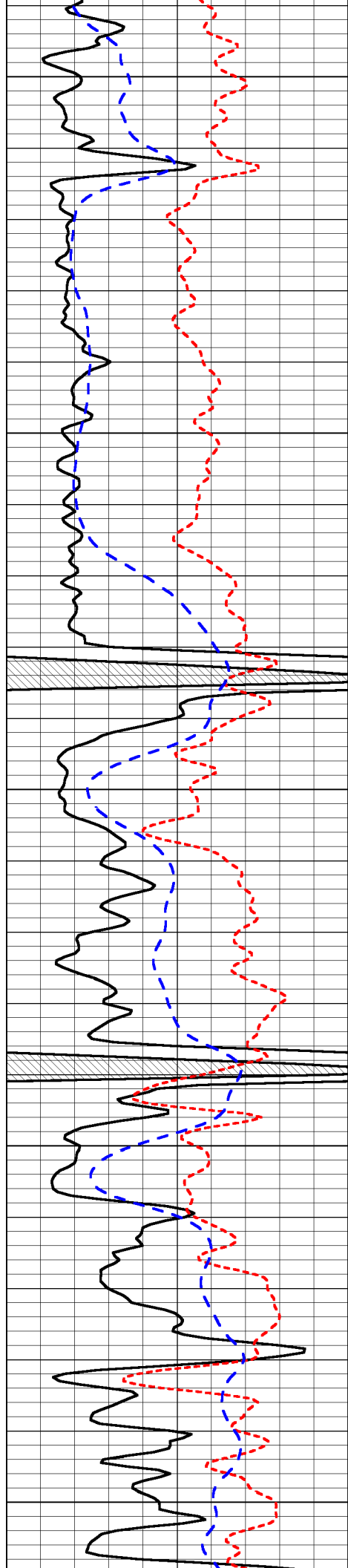


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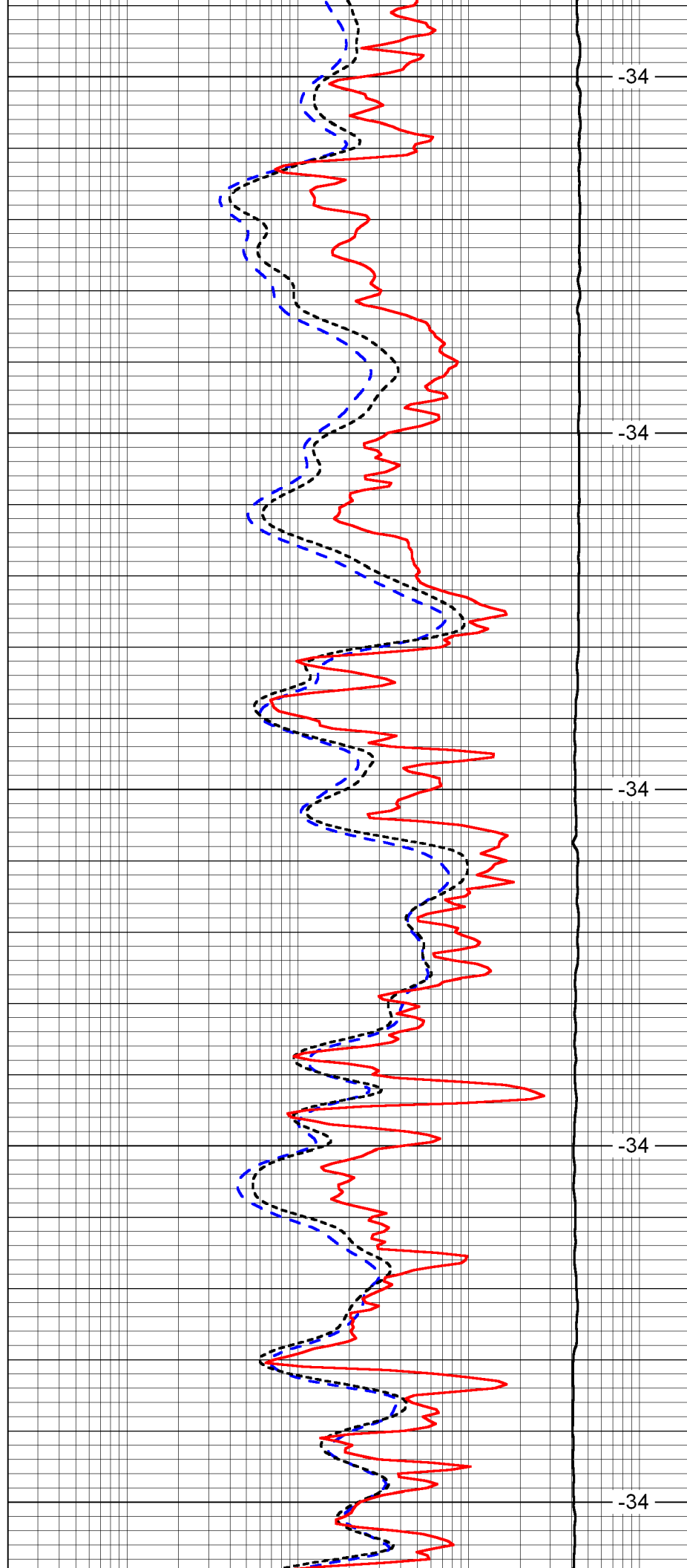
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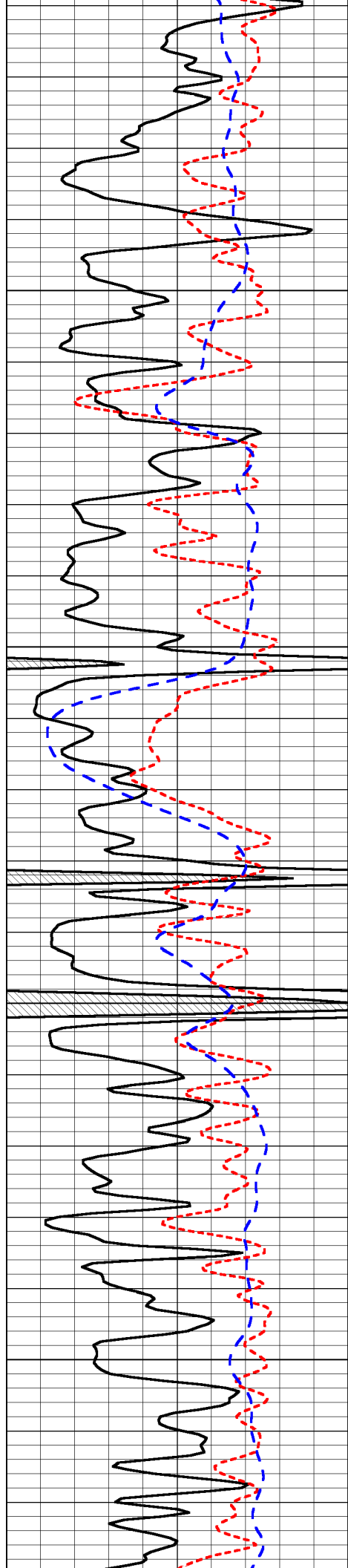
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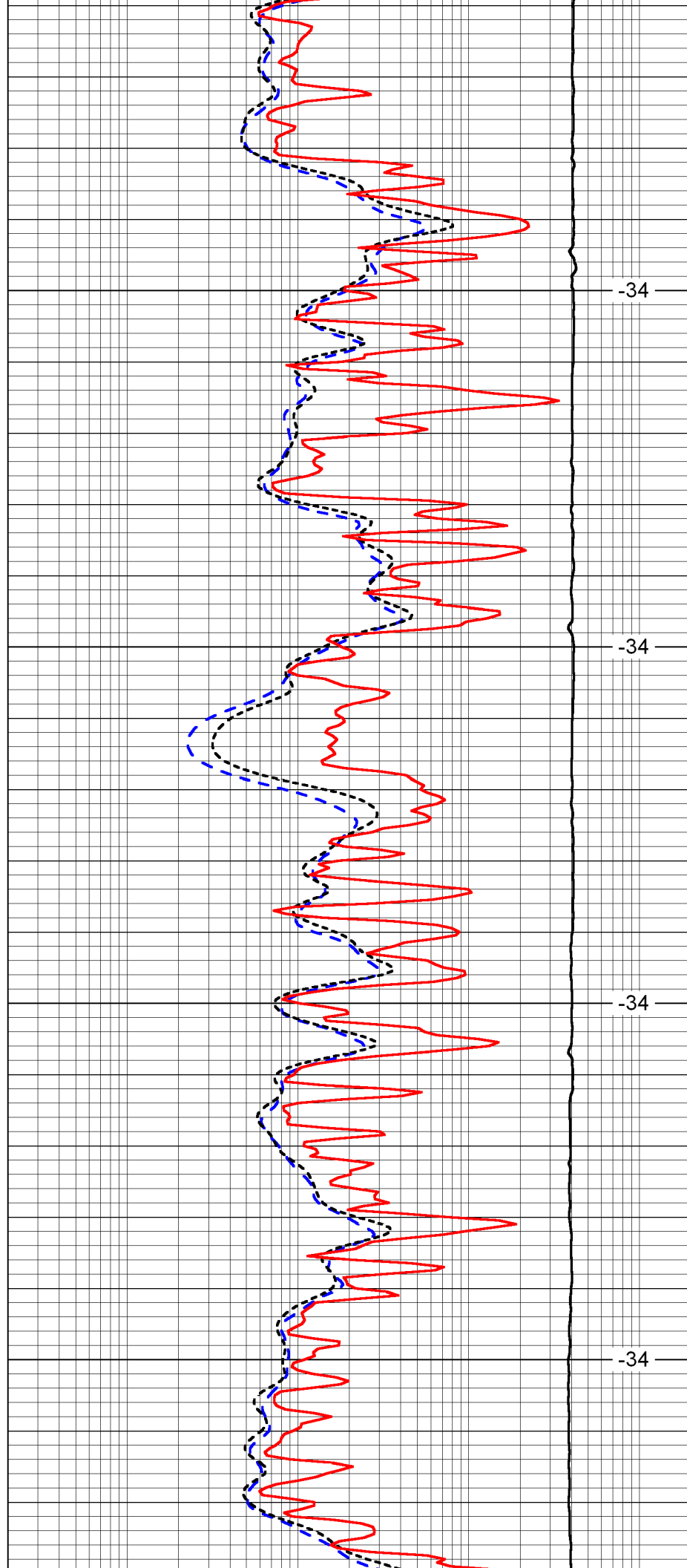


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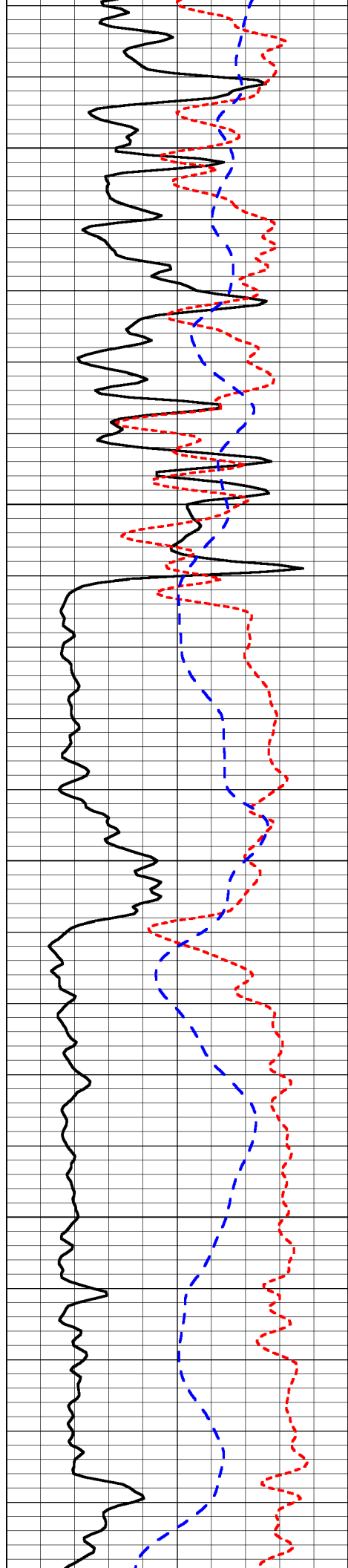


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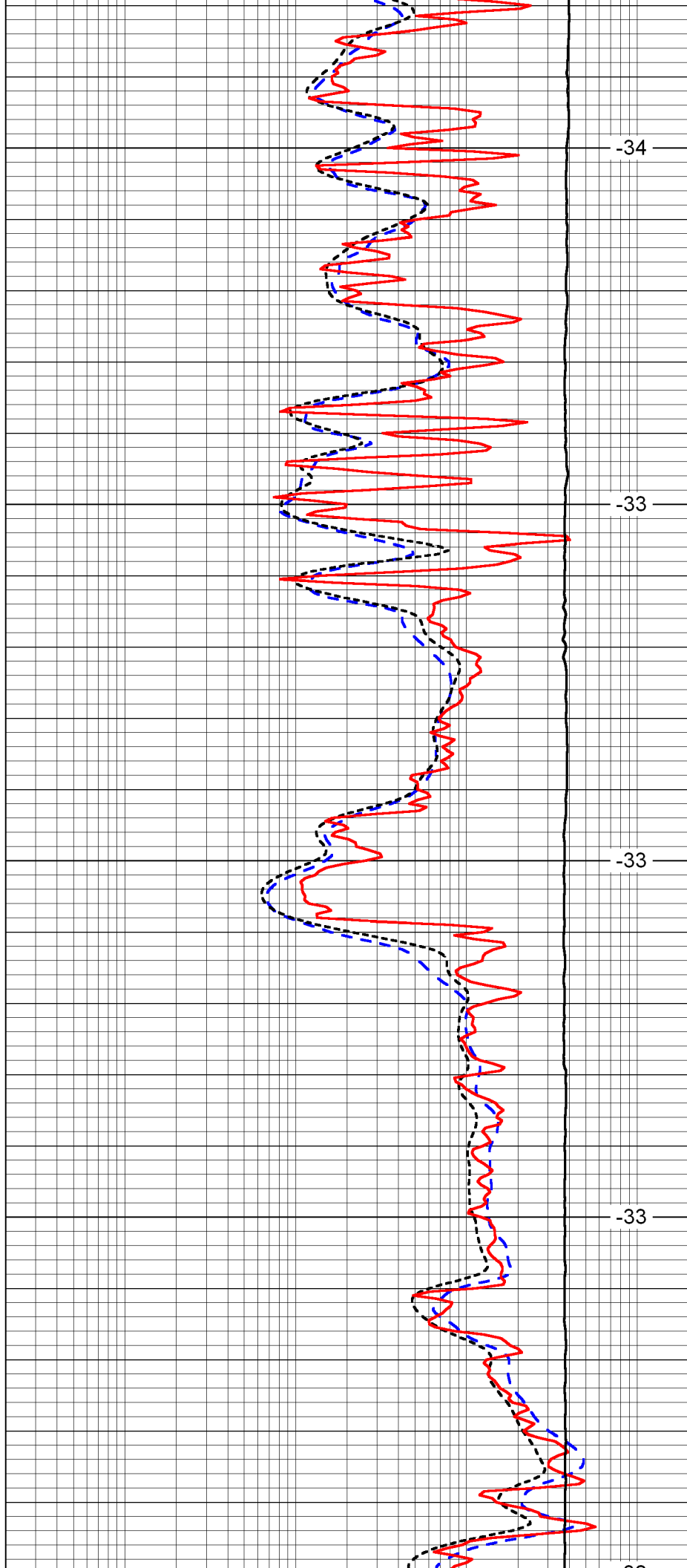
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4900



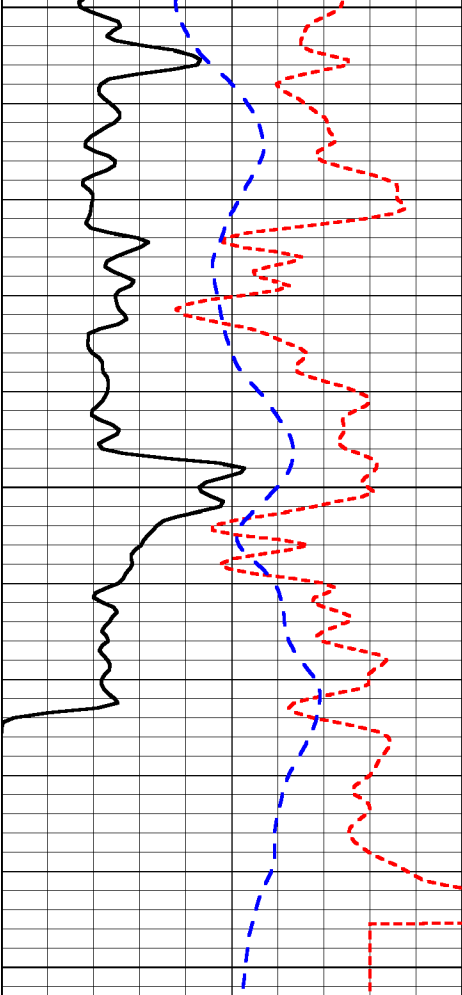
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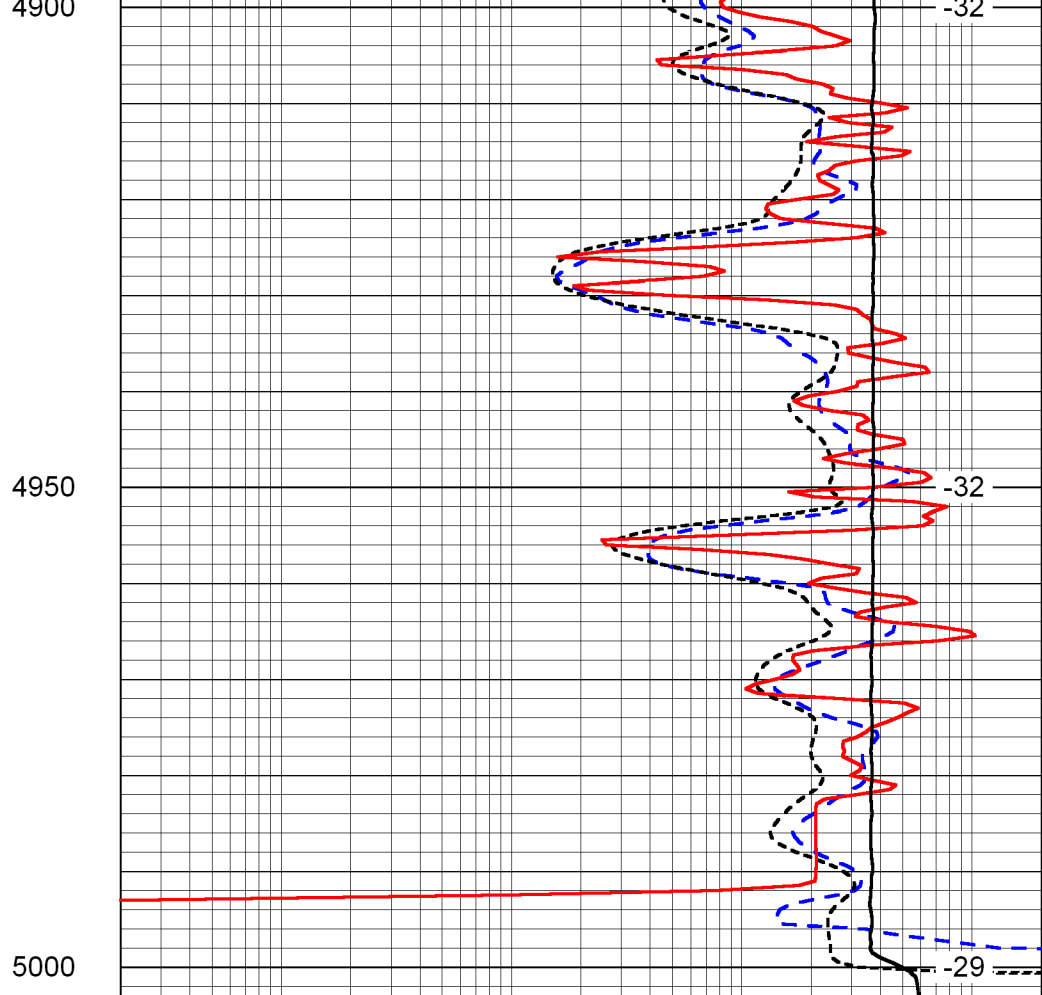
-33

-33

-32



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



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

LSPD