



Pioneer Energy Services

Dual Induction Log

API No.

15-047-21,628-00-00

Company **Toto Energy, LLC.**

Well **Electric Guitar #1**

Field **Wil**

County **Edwards** State **Kansas**

Location **1420' FSL & 1320' FEL**

Sec: 36

Twp: 25S

Rge: 16W

Permanent Datum **Ground Level** Elevation **2048**

Log Measured From **Kelly Bushing**

11 Ft. Above Perm. Datum

Other Services
CNL/CDL
MEL

Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2059
D.F. 2048
G.L. 2048

Date **1/4/2014**

Run Number **One**

Depth Driller **4765**

Depth Logger **4754**

Bottom Logged Interval **4753**

Top Log Interval **300**

Casing Driller **8.625 @ 323**

Casing Logger **322**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **3000**

Density / Viscosity **8.8 50**

pH / Fluid Loss **9.5 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.4 @ 55**

Rmf @ Meas. Temp **1.05 @ 55**

Rmc @ Meas. Temp **1.89 @ 55**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.62 @ 124**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **124**

Equipment Number **15**

Location **Hays**

Recorded By **D. Kerr**

Witnessed By **Harley Sayles**

Terry Madden

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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

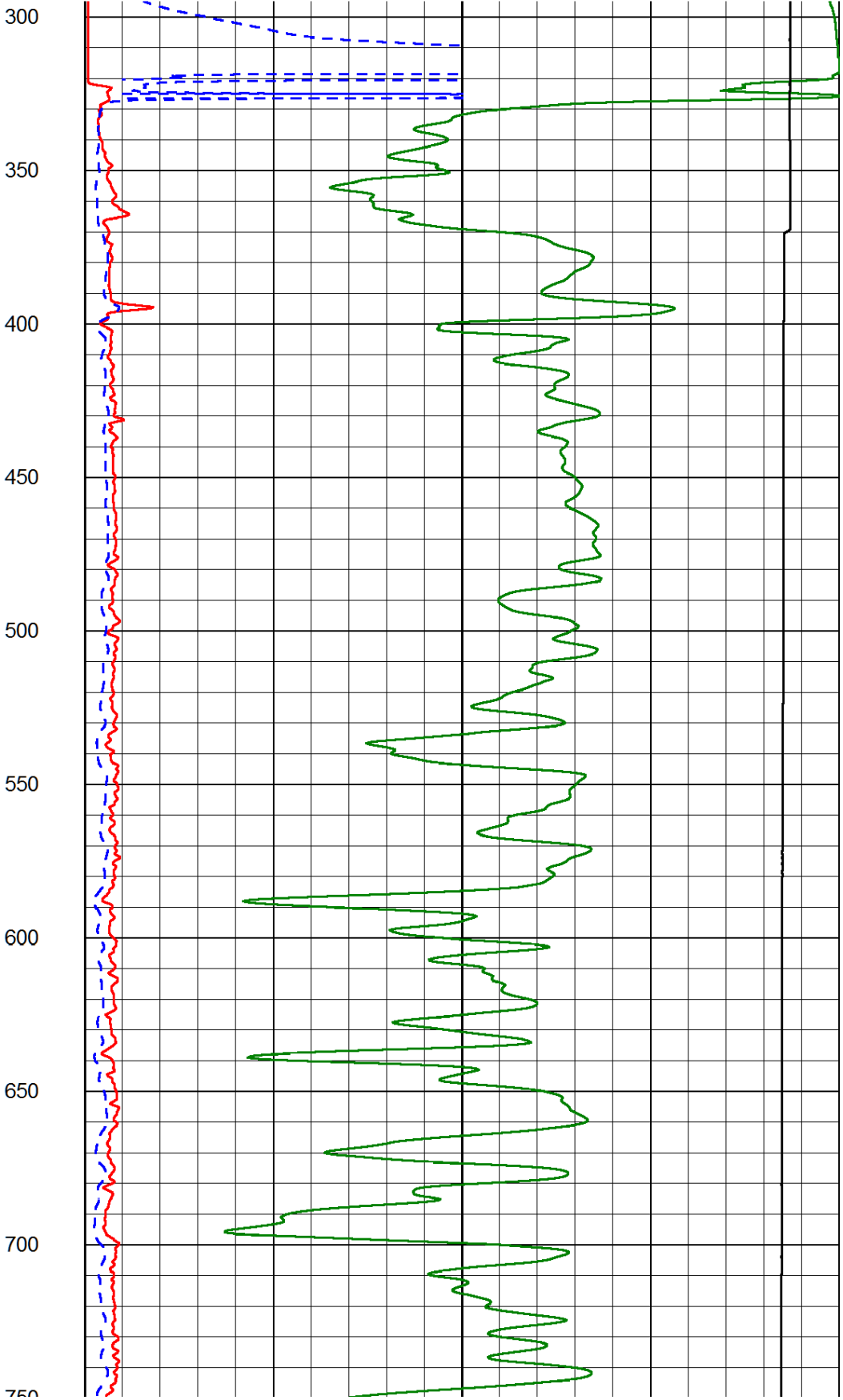
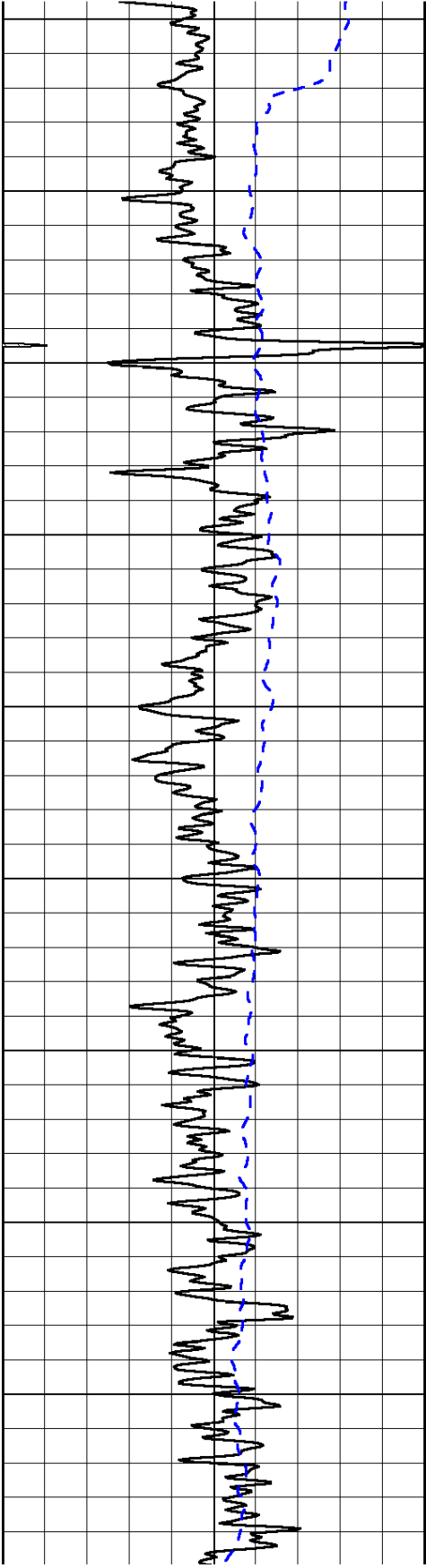
Thank you for using Log-Tech, Inc.
(785) 625-3858

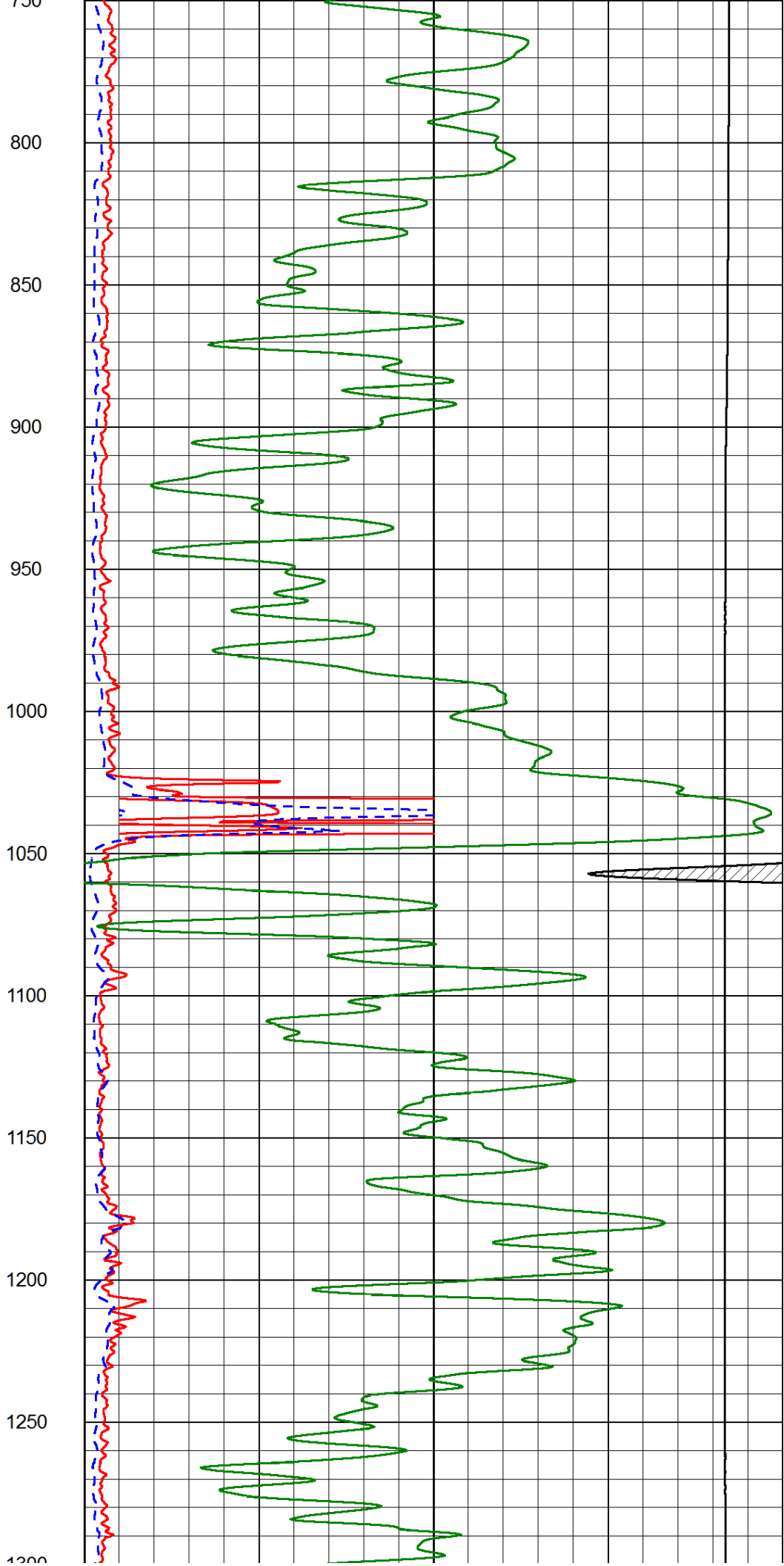
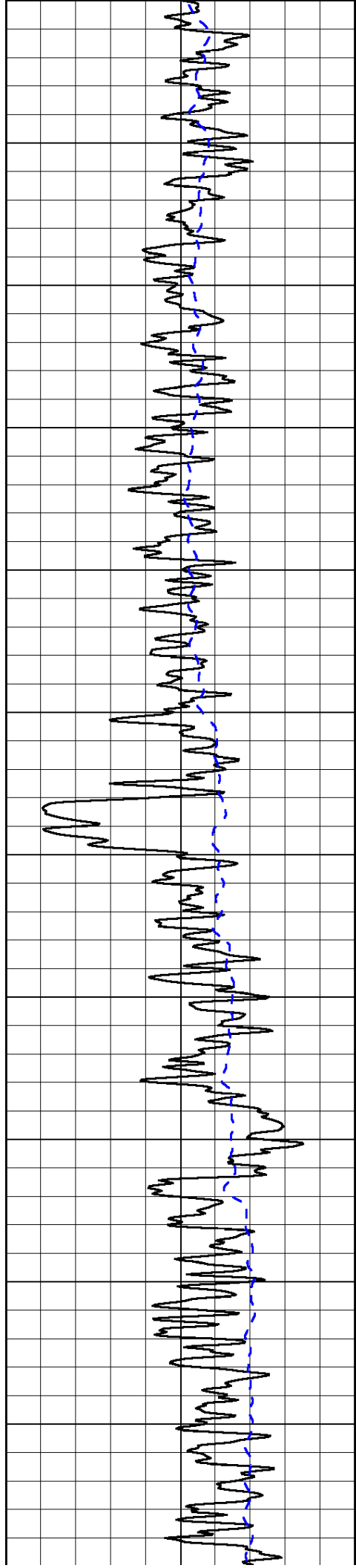
Belpre KS, 8 South to 80 RD,
4 East, 1/2 South, West Into

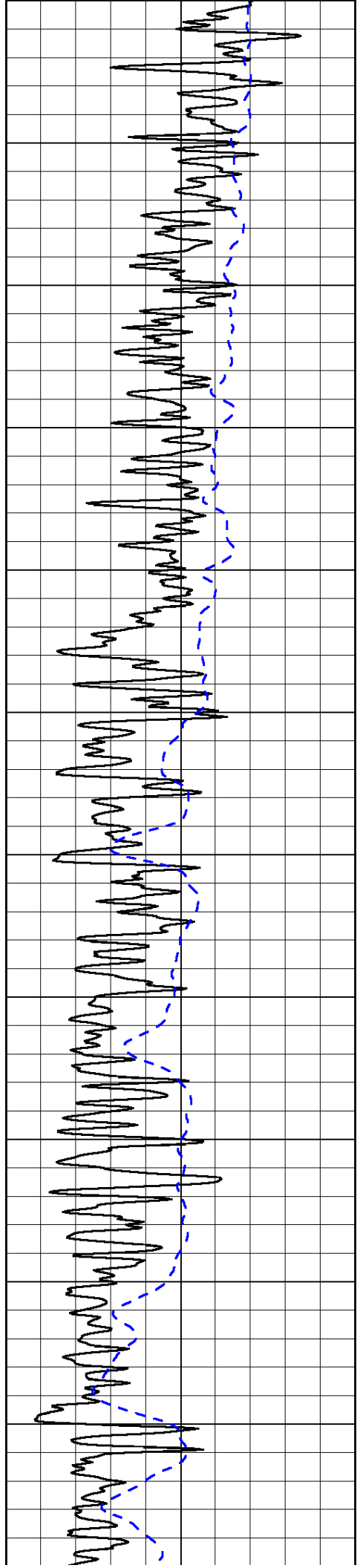
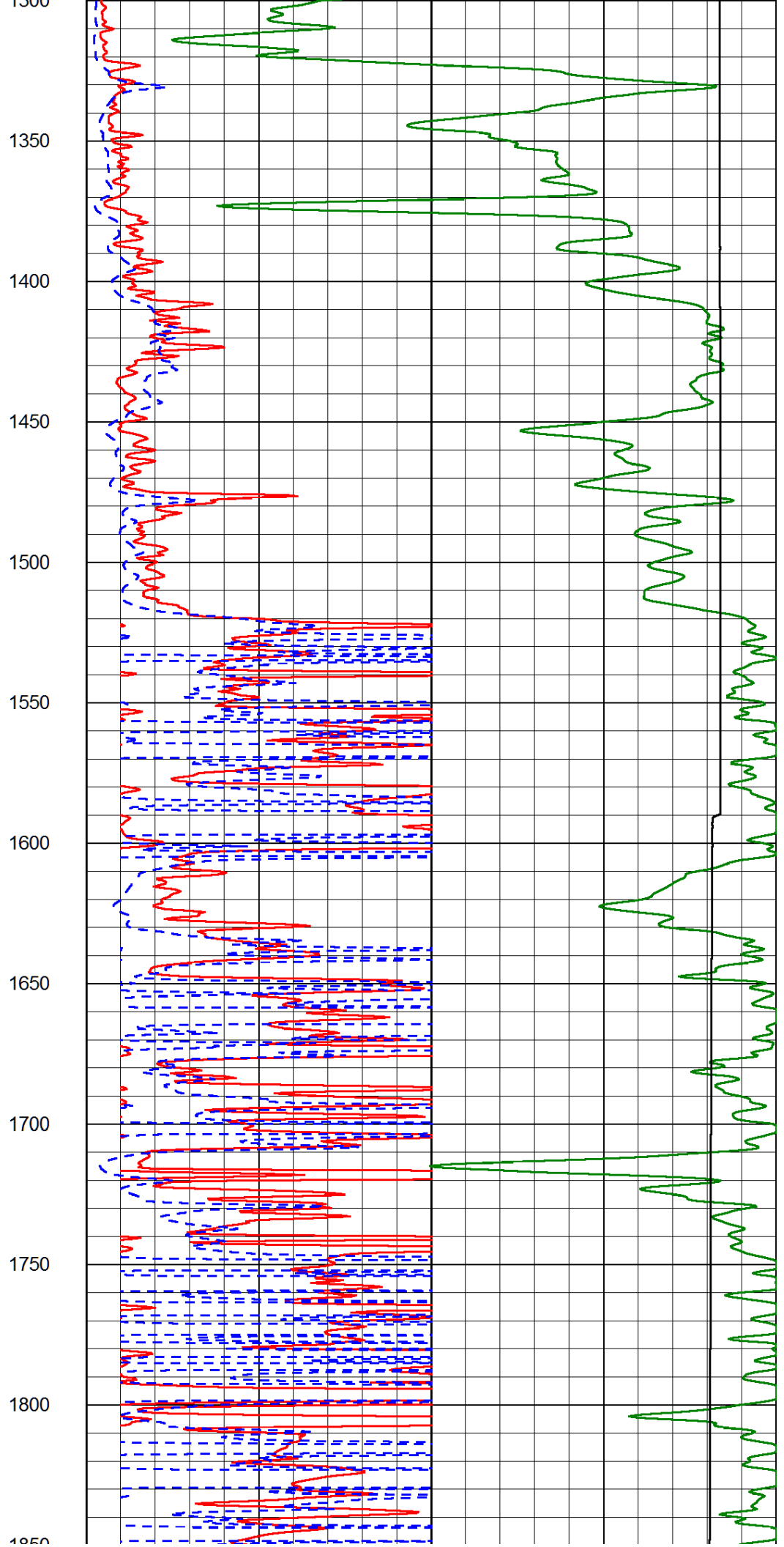
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Presentation Format: dil2in
Dataset Creation: Sat Jan 04 11:15:57 2014
Charted by: Depth in Feet scaled 1:600

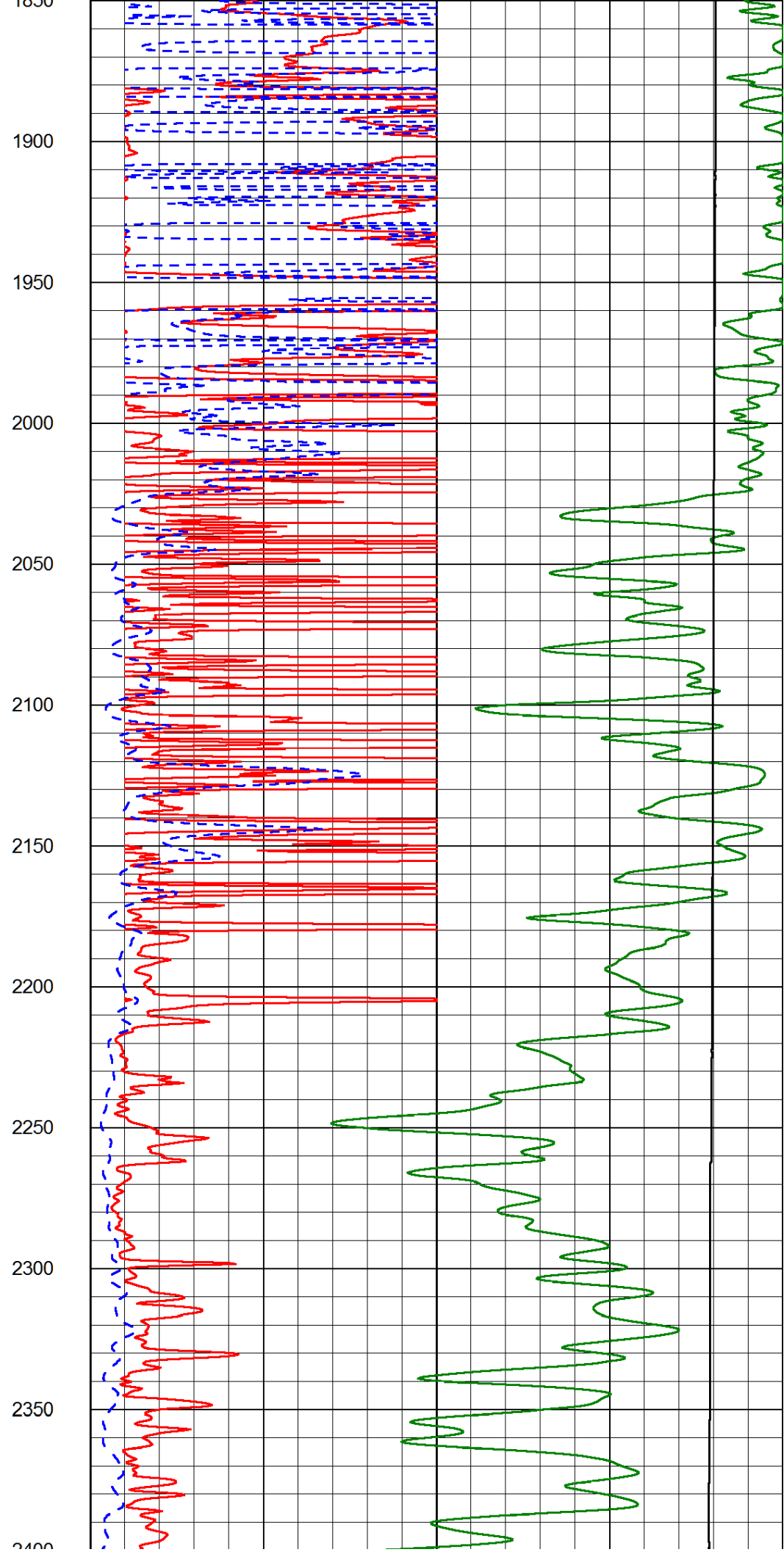
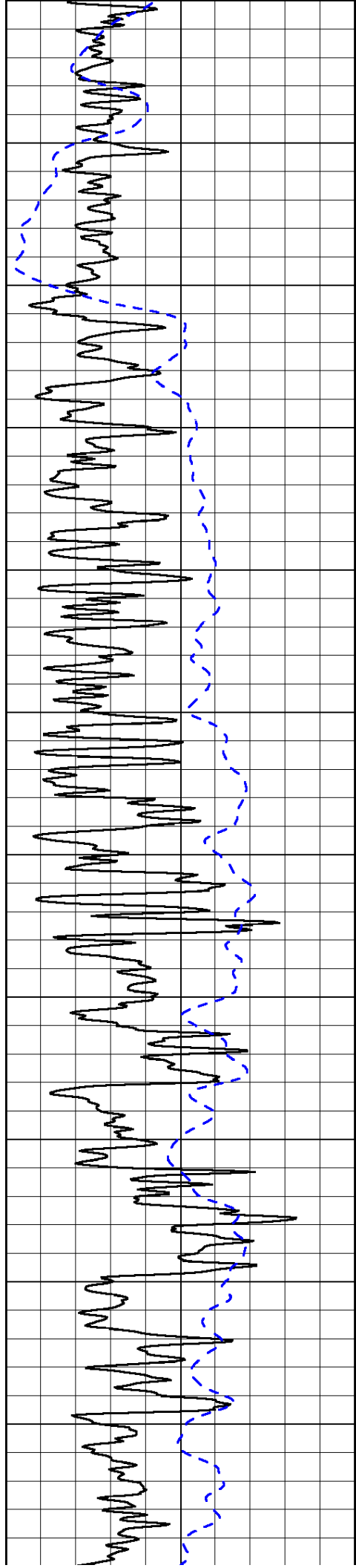
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-200	SP (mV)	0

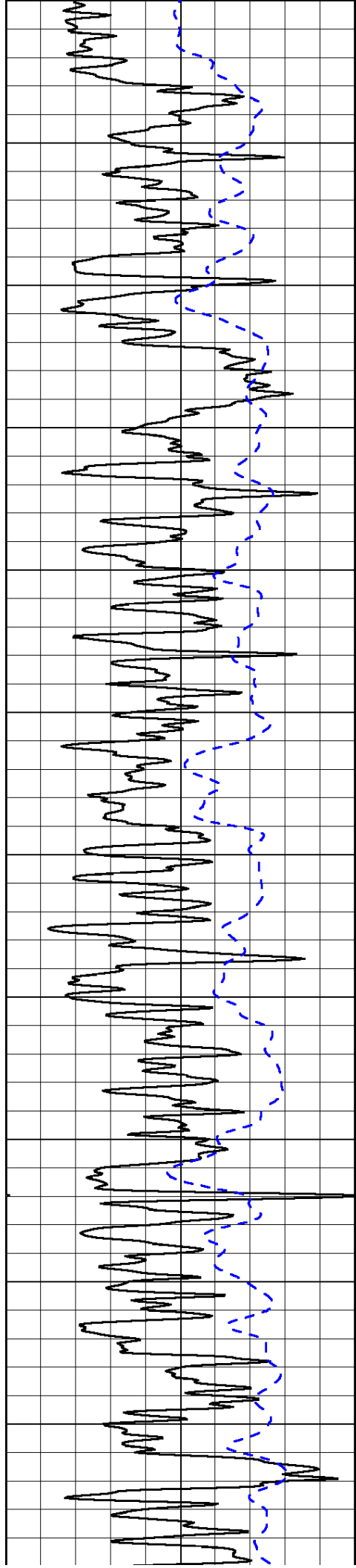
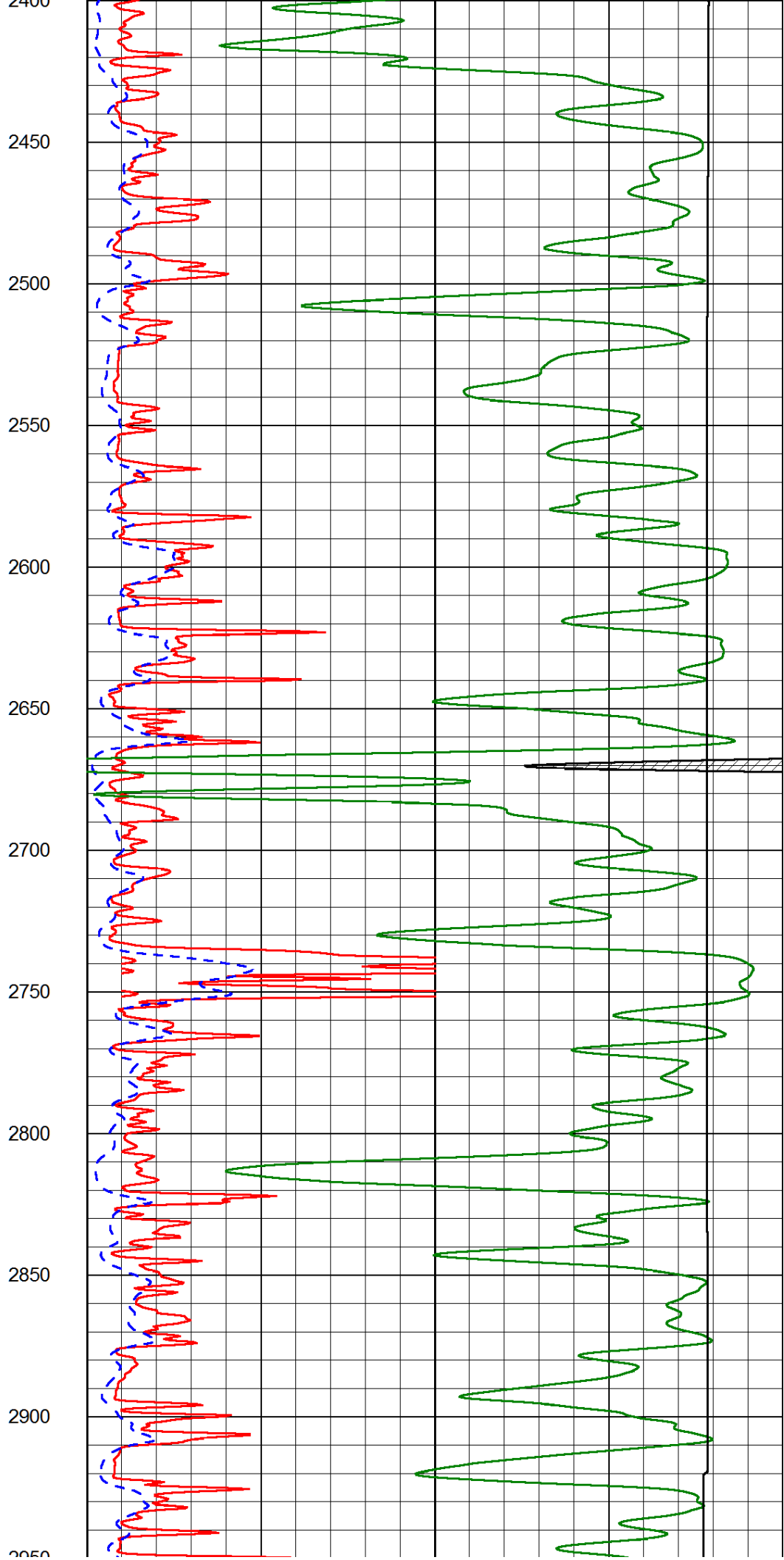
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0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

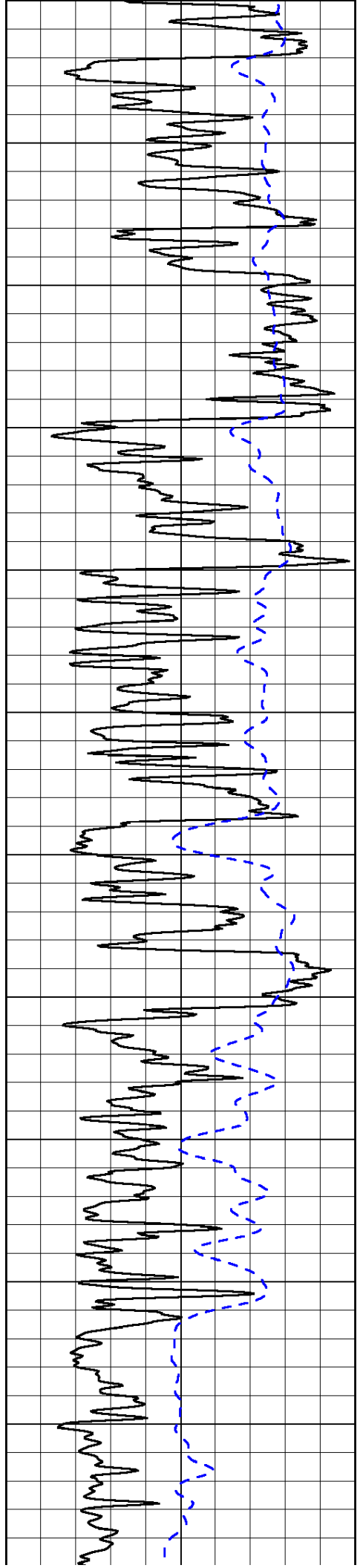
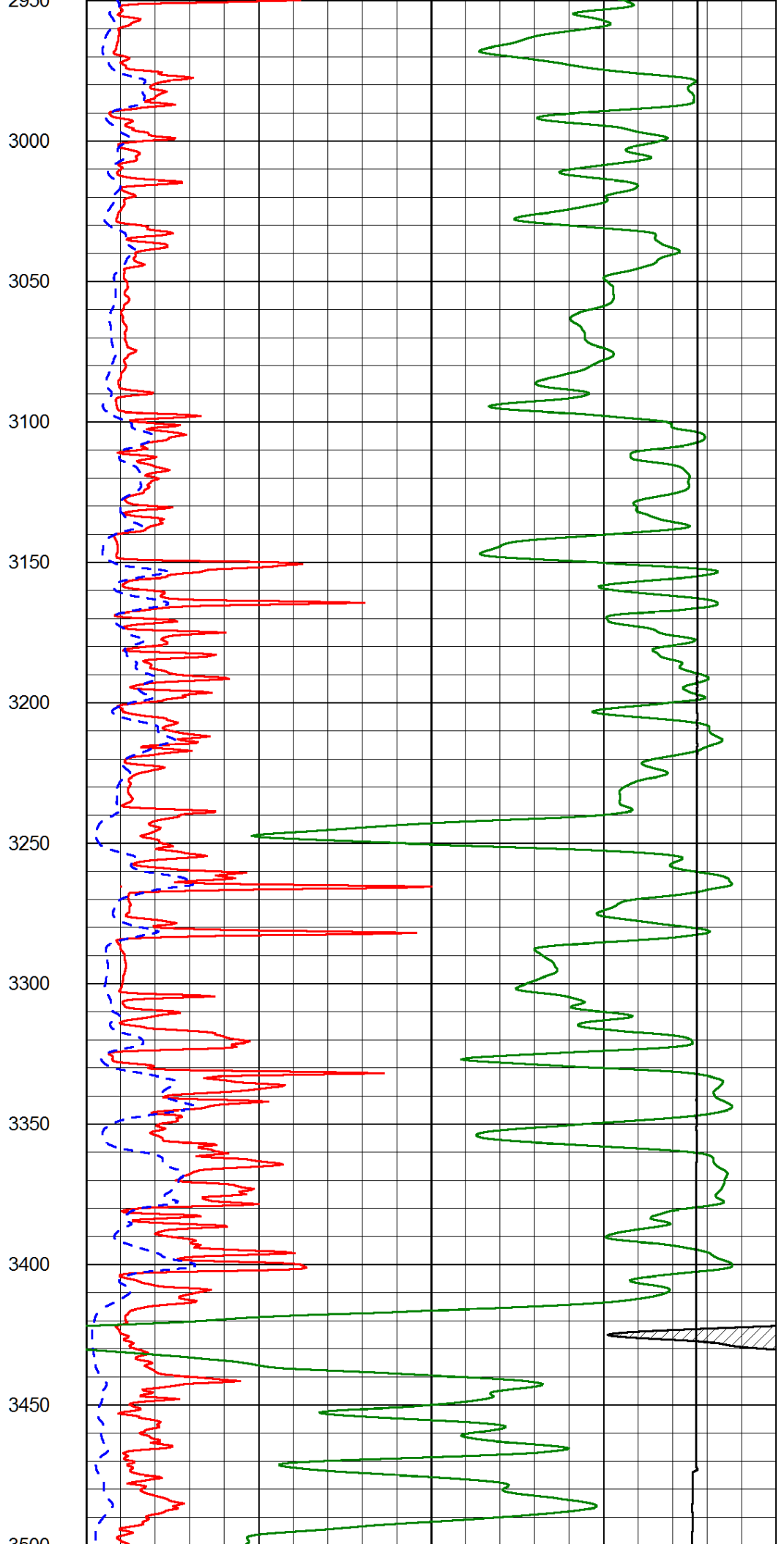


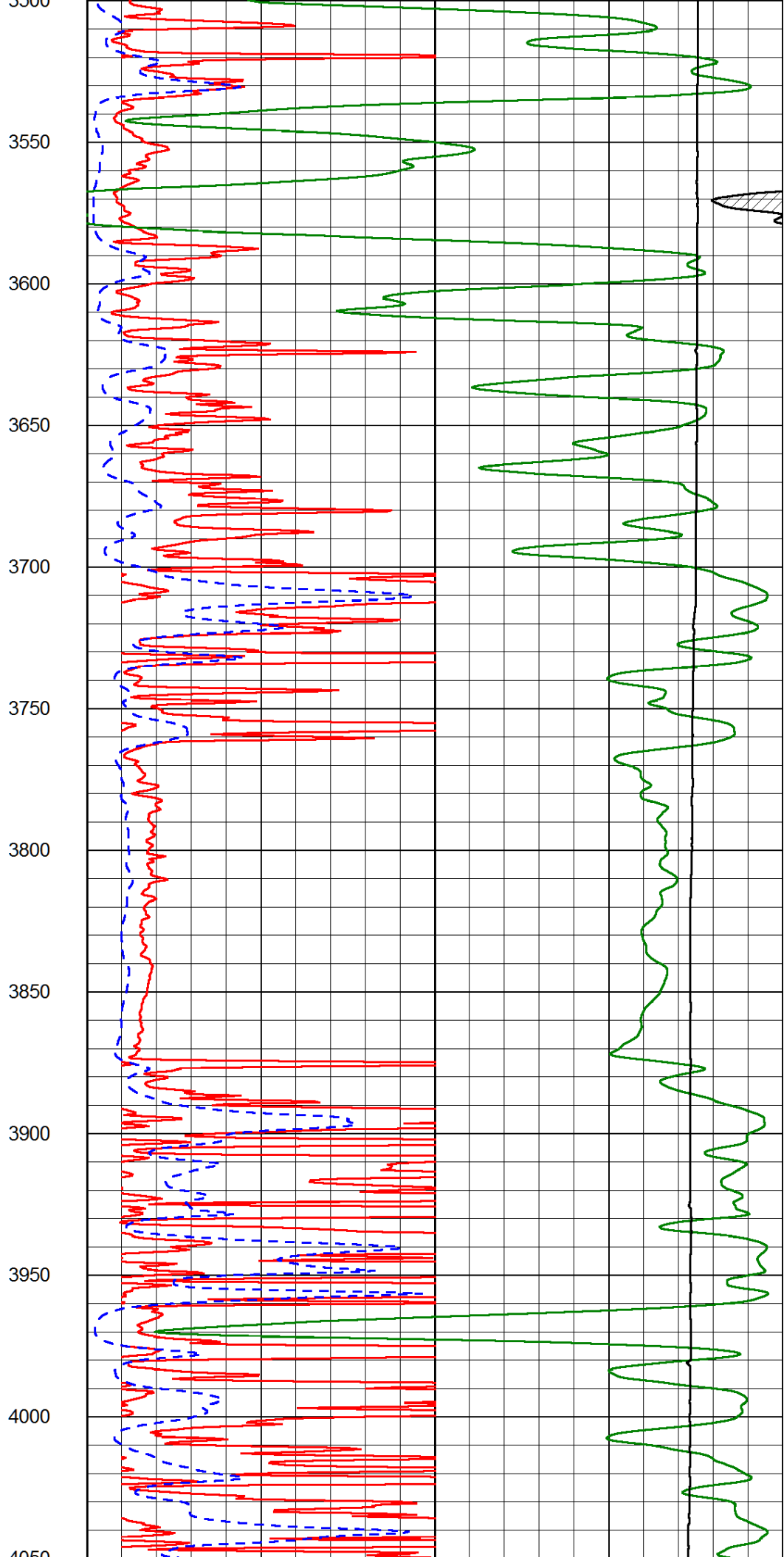
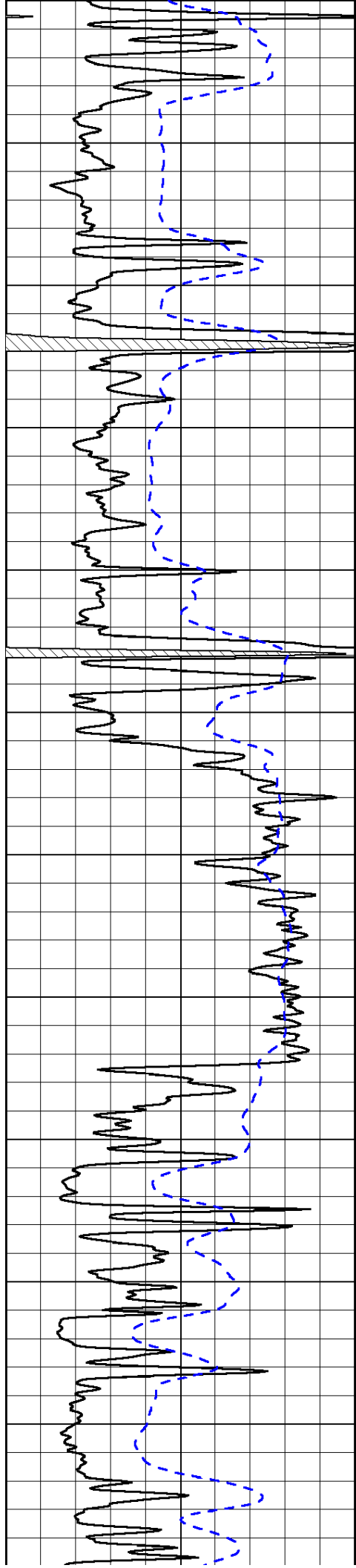


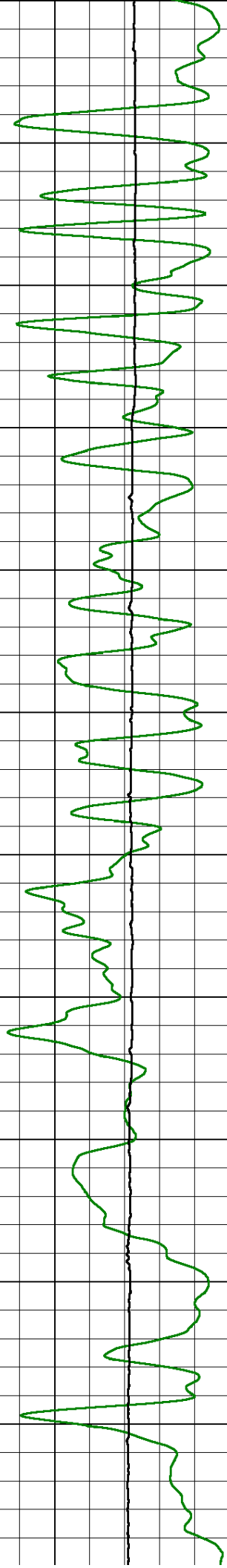
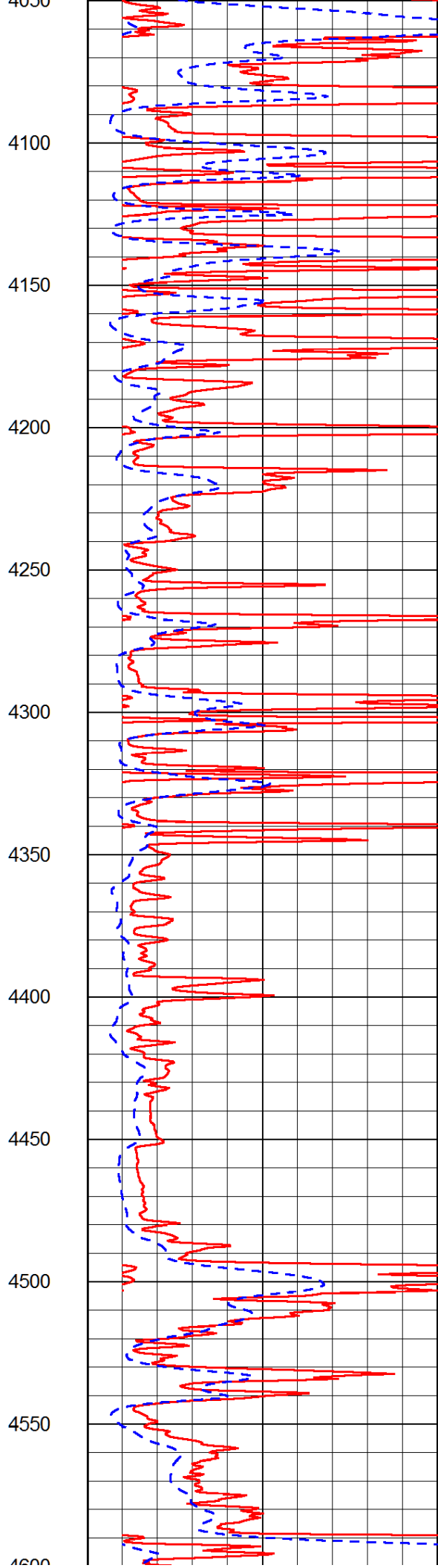
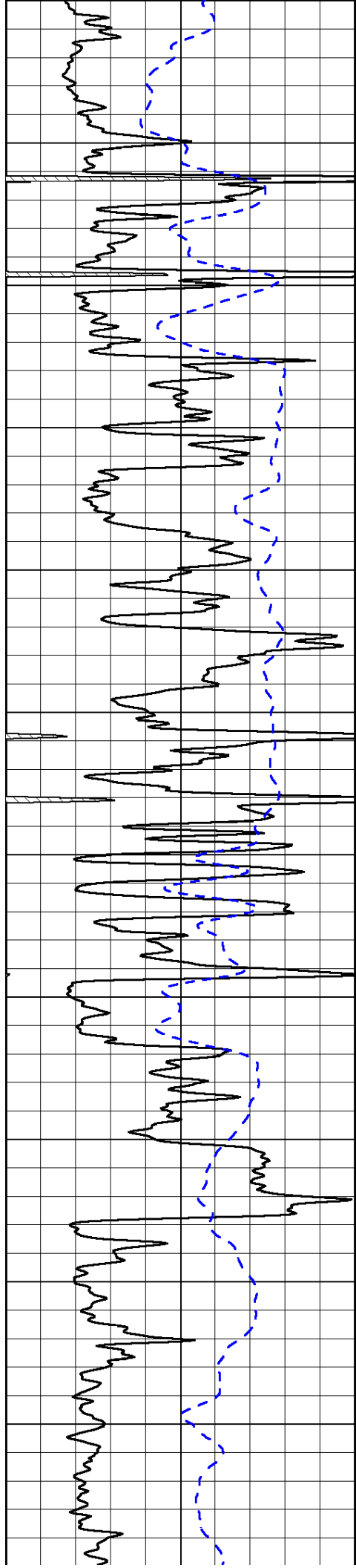


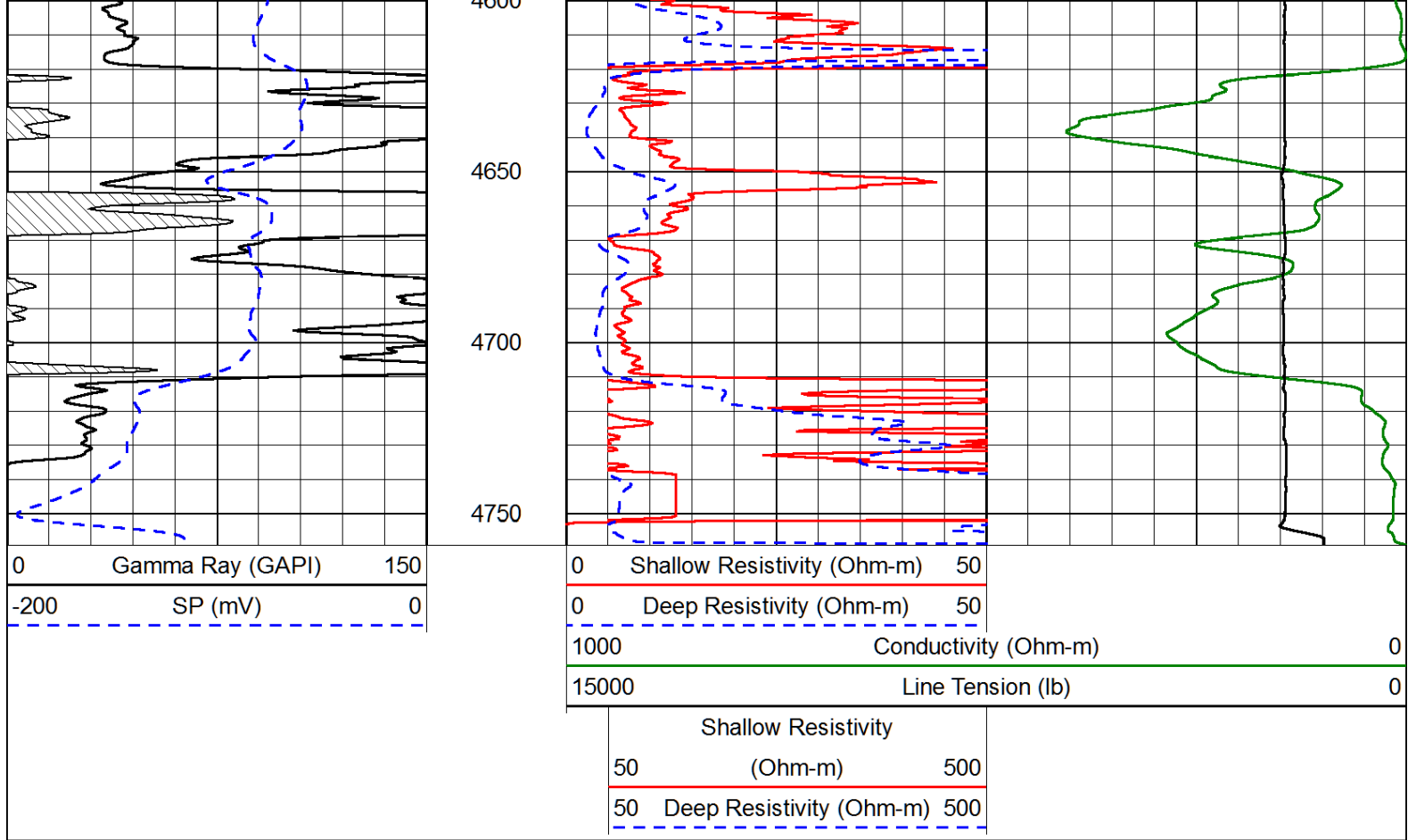




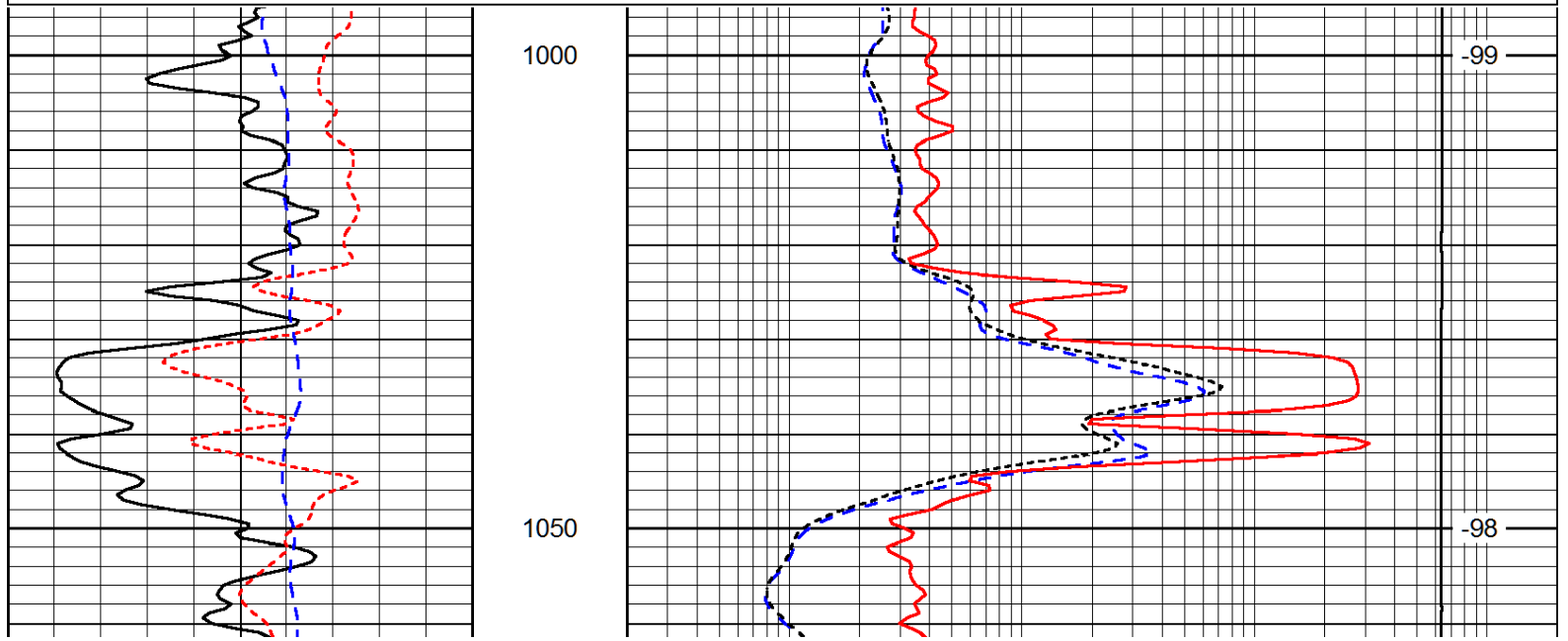
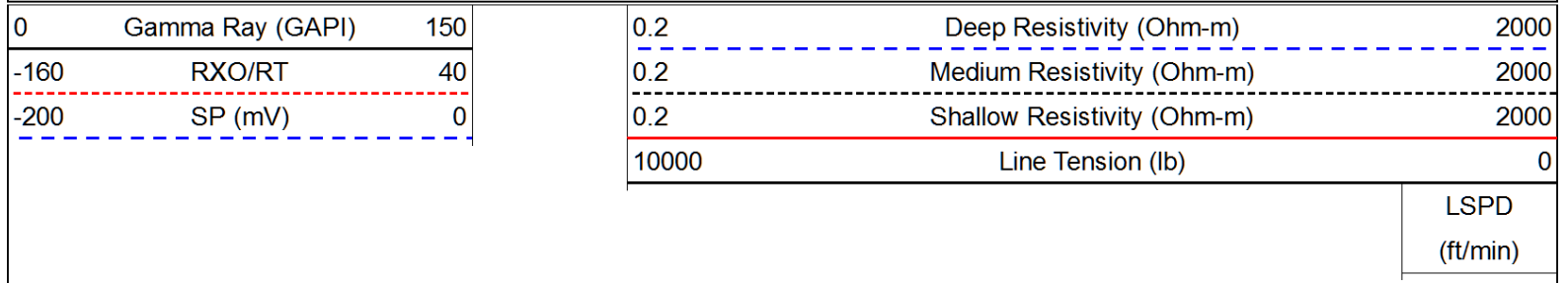


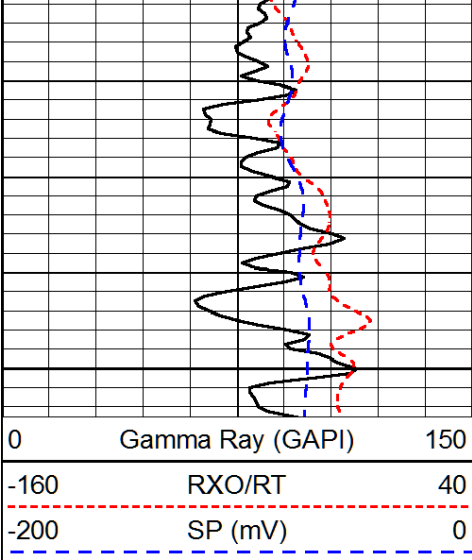




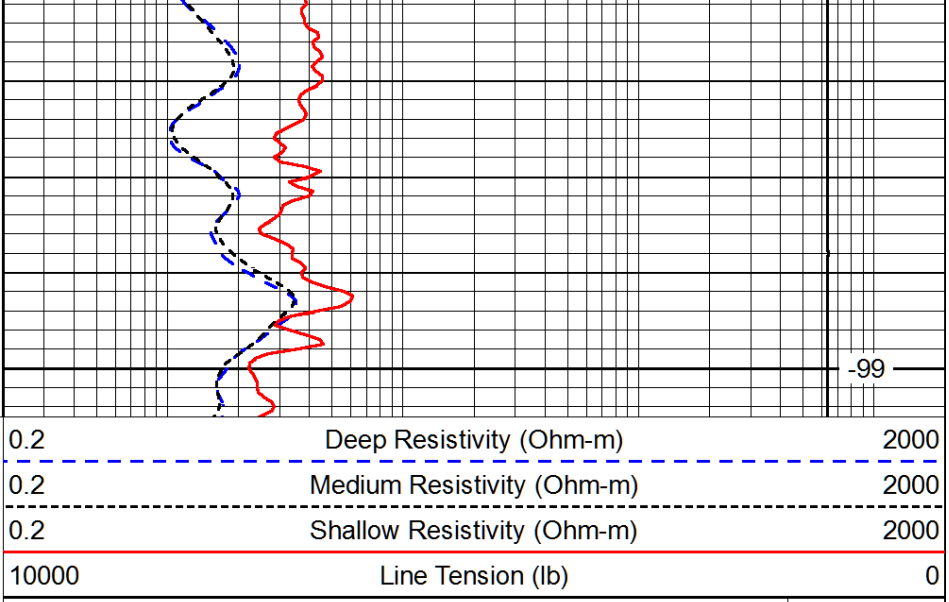


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 Presentation Format: dil
 Dataset Creation: Sat Jan 04 11:15:57 2014
 Charted by: Depth in Feet scaled 1:240





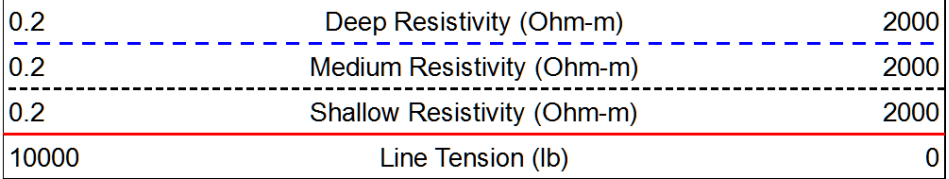
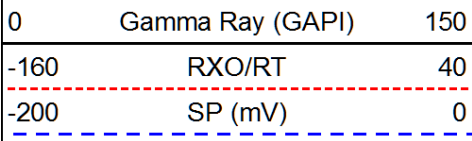
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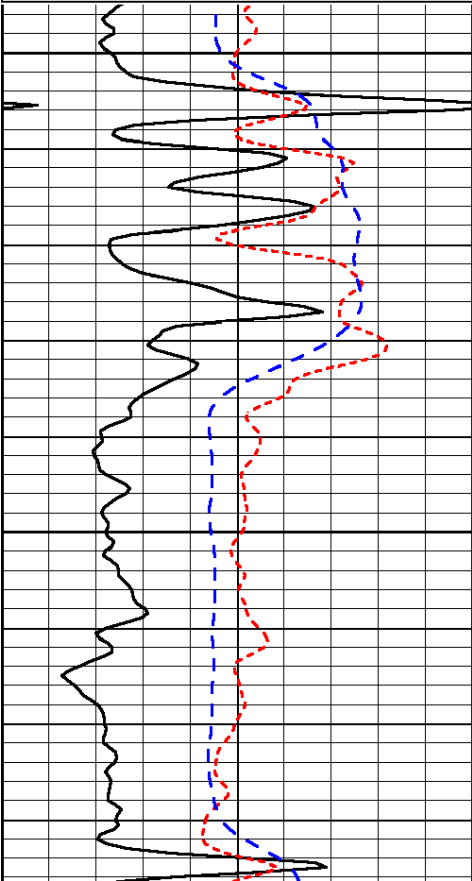
-99

LSPD
(ft/min)

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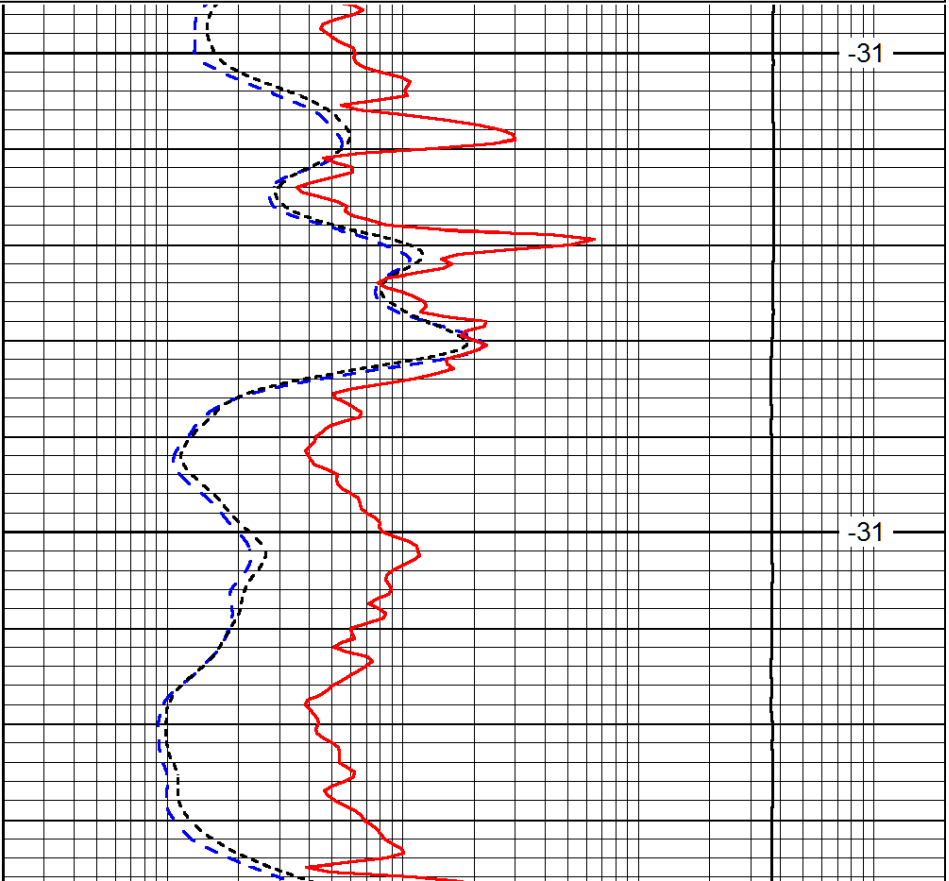


LSPD
(ft/min)



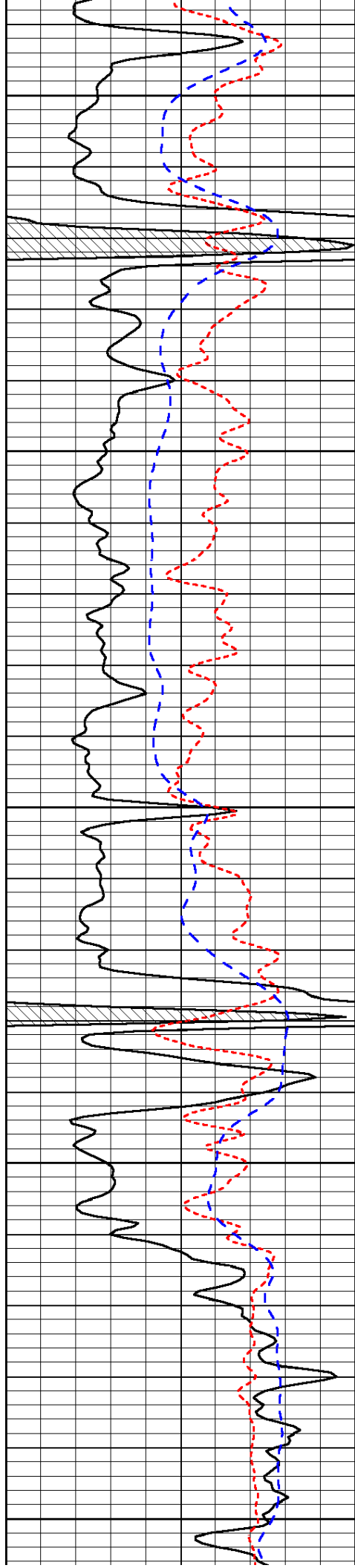
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3550



-31

-31



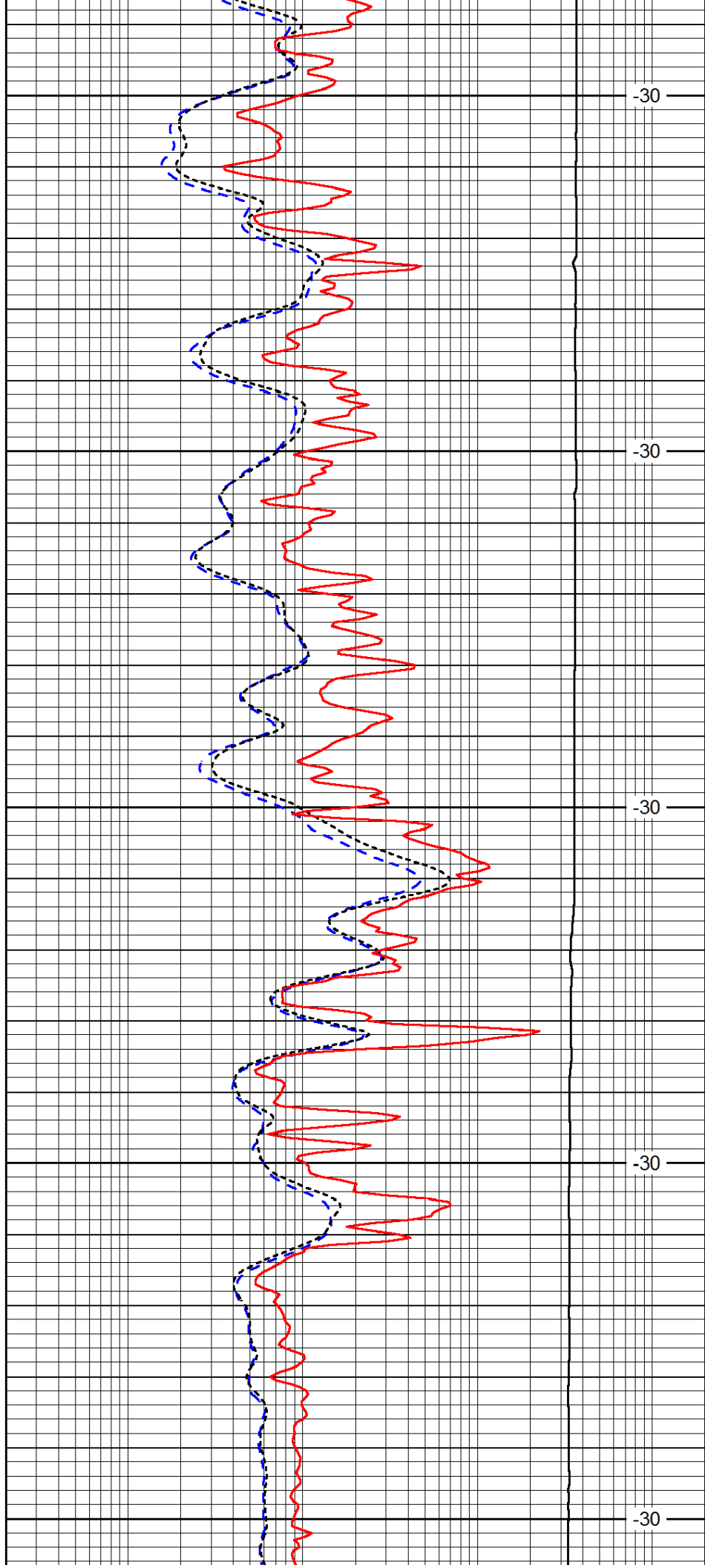
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3650

3700

3750

3800



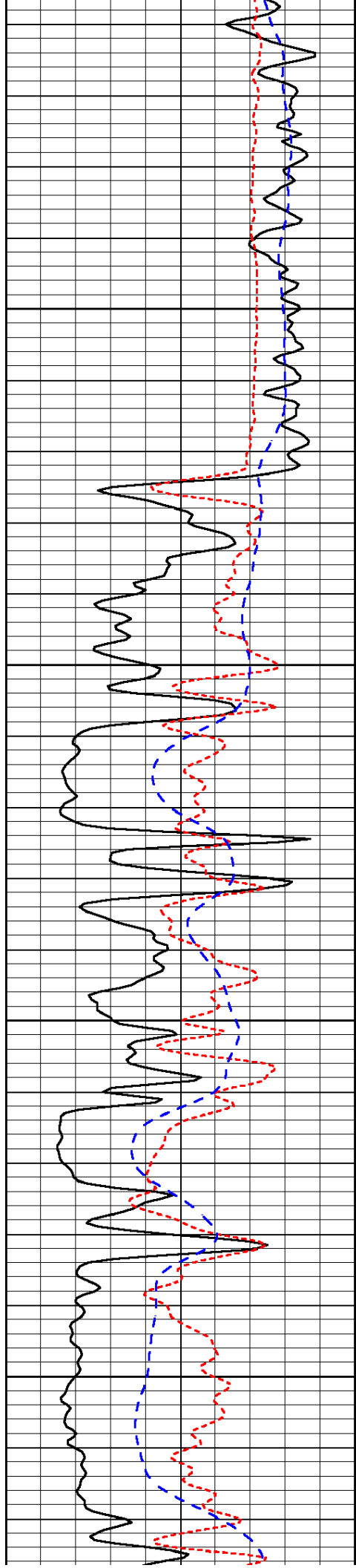
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-30

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-30

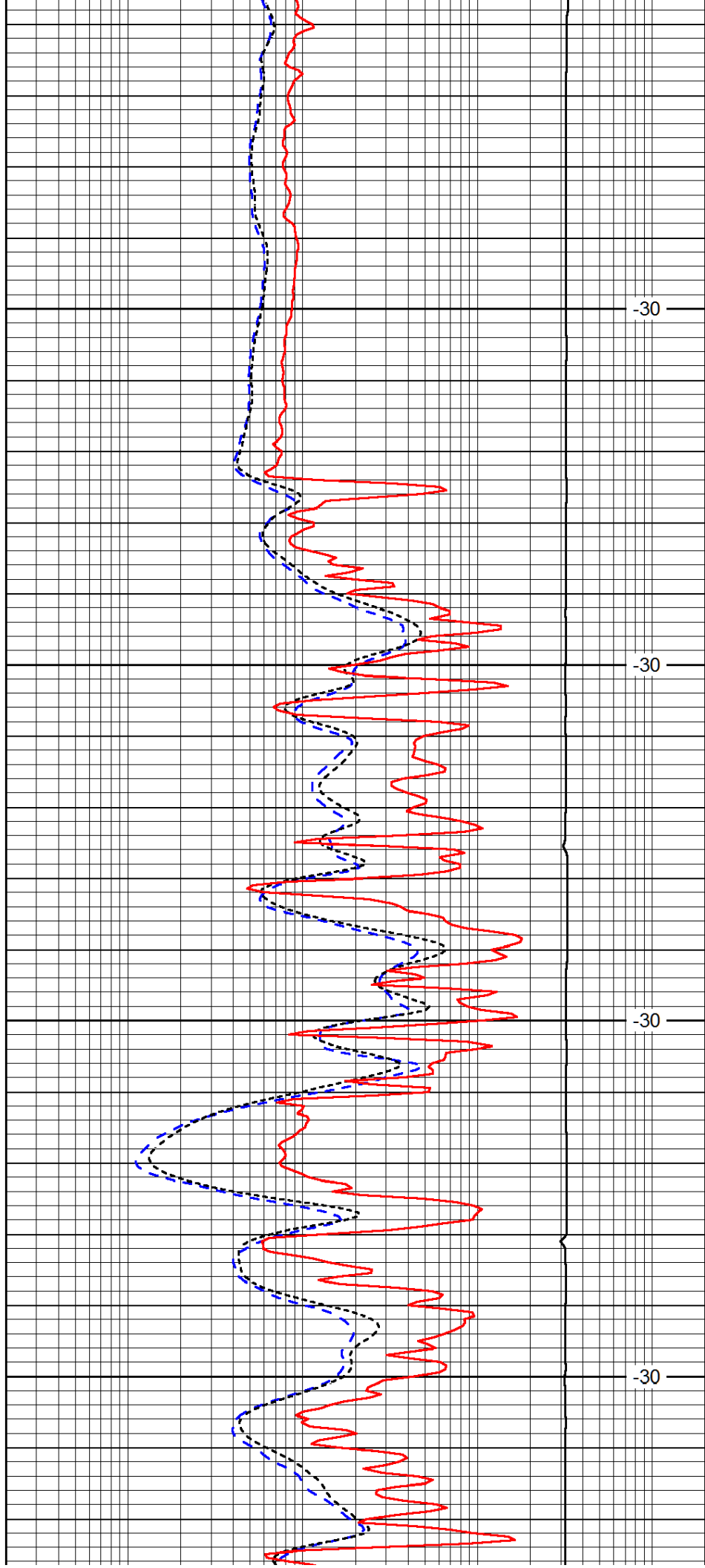


3850

3900

3950

4000

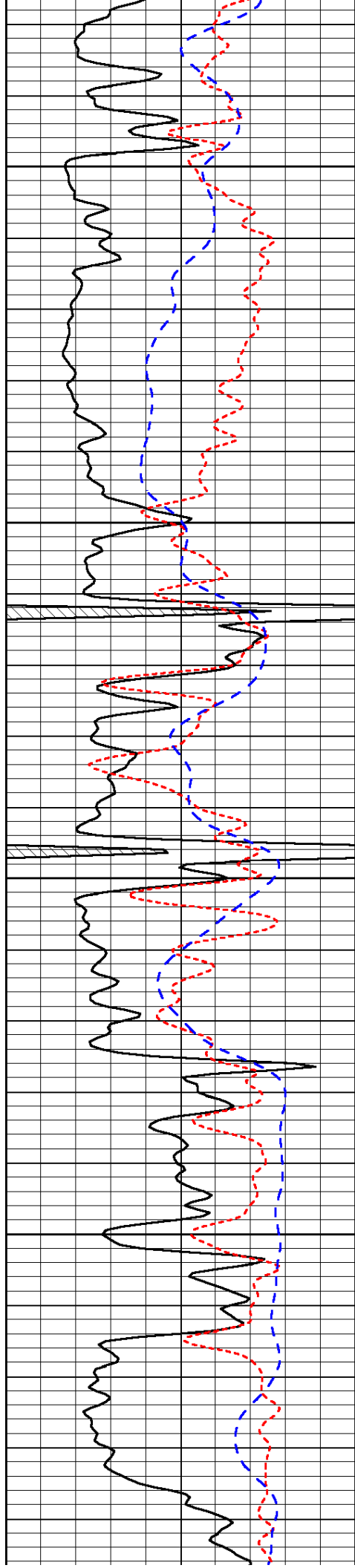


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-30

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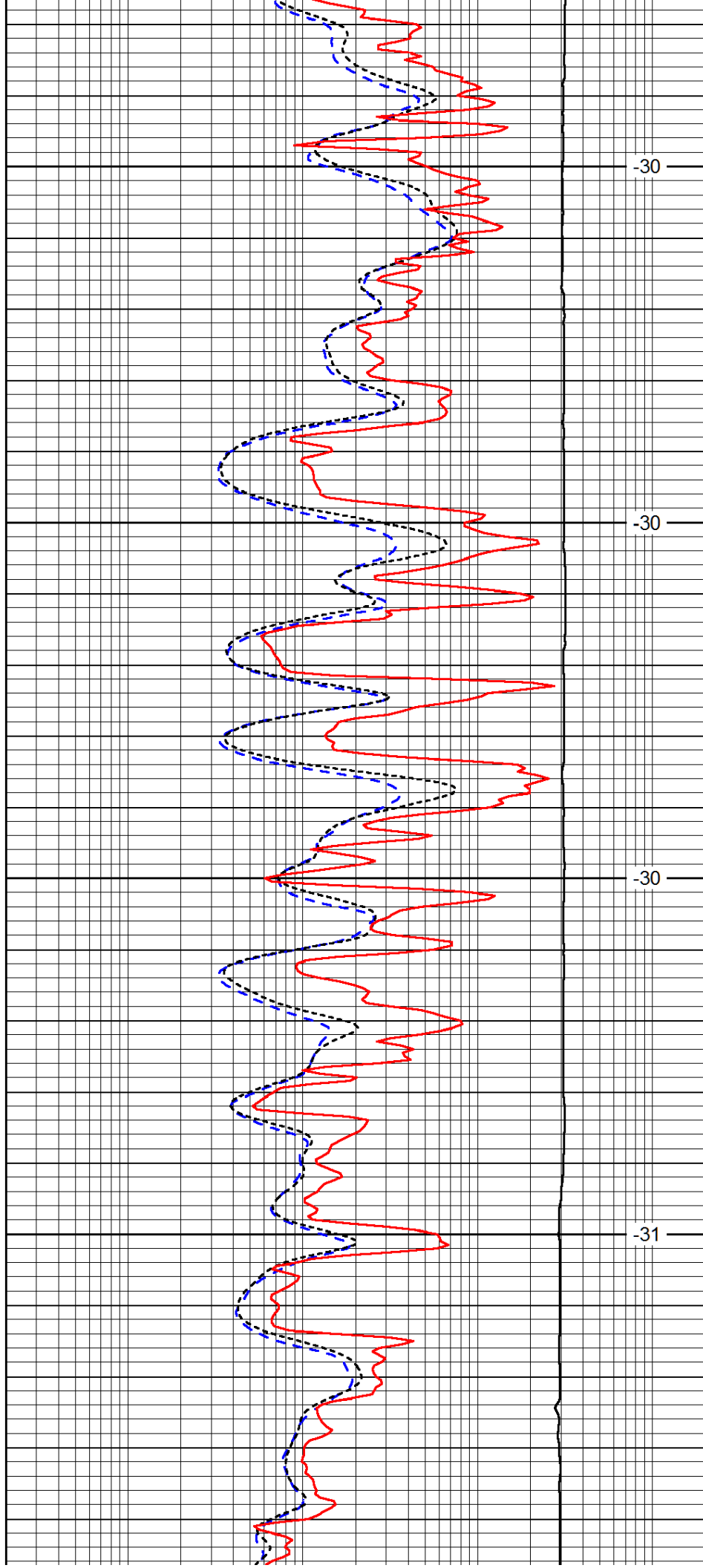


4050

4100

4150

4200

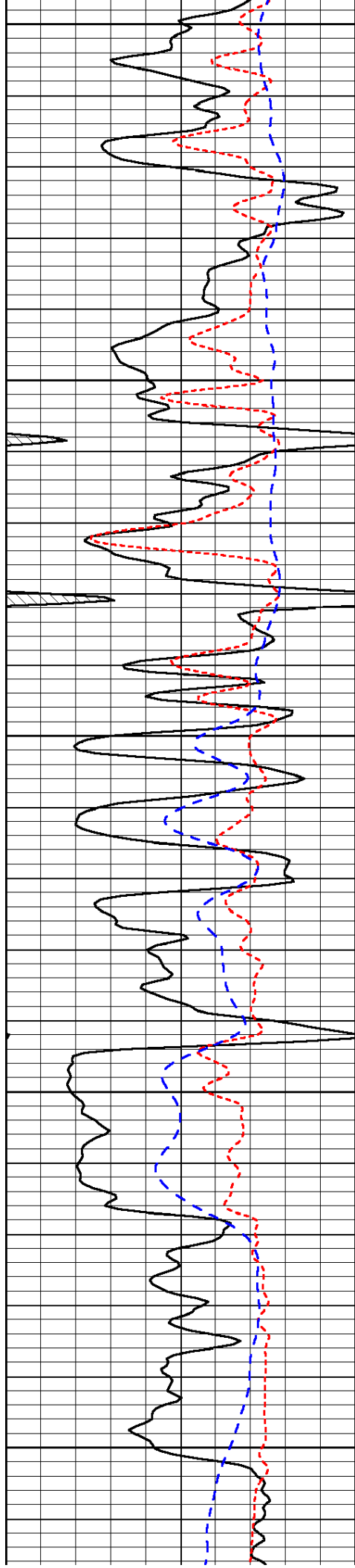


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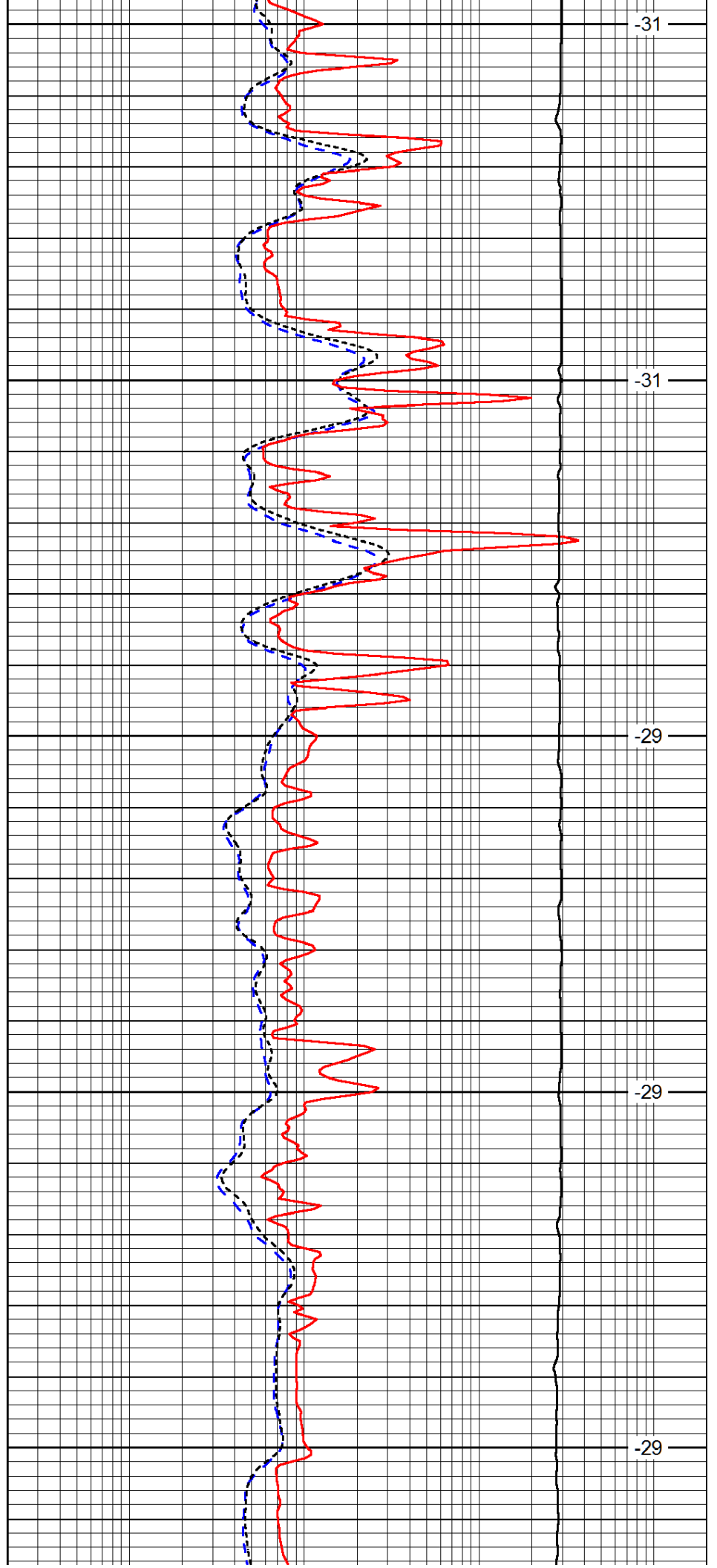
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4300

4350

4400

4450



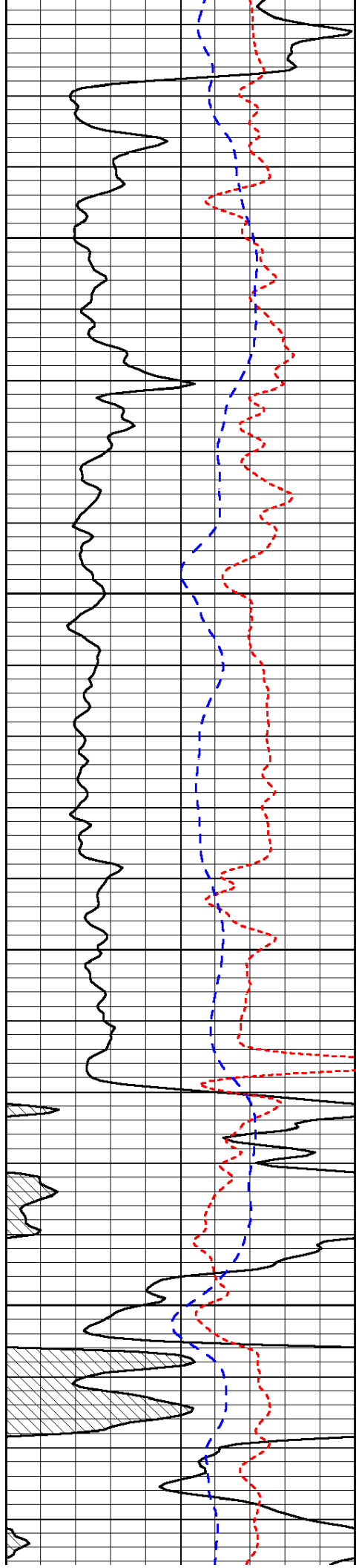
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-29

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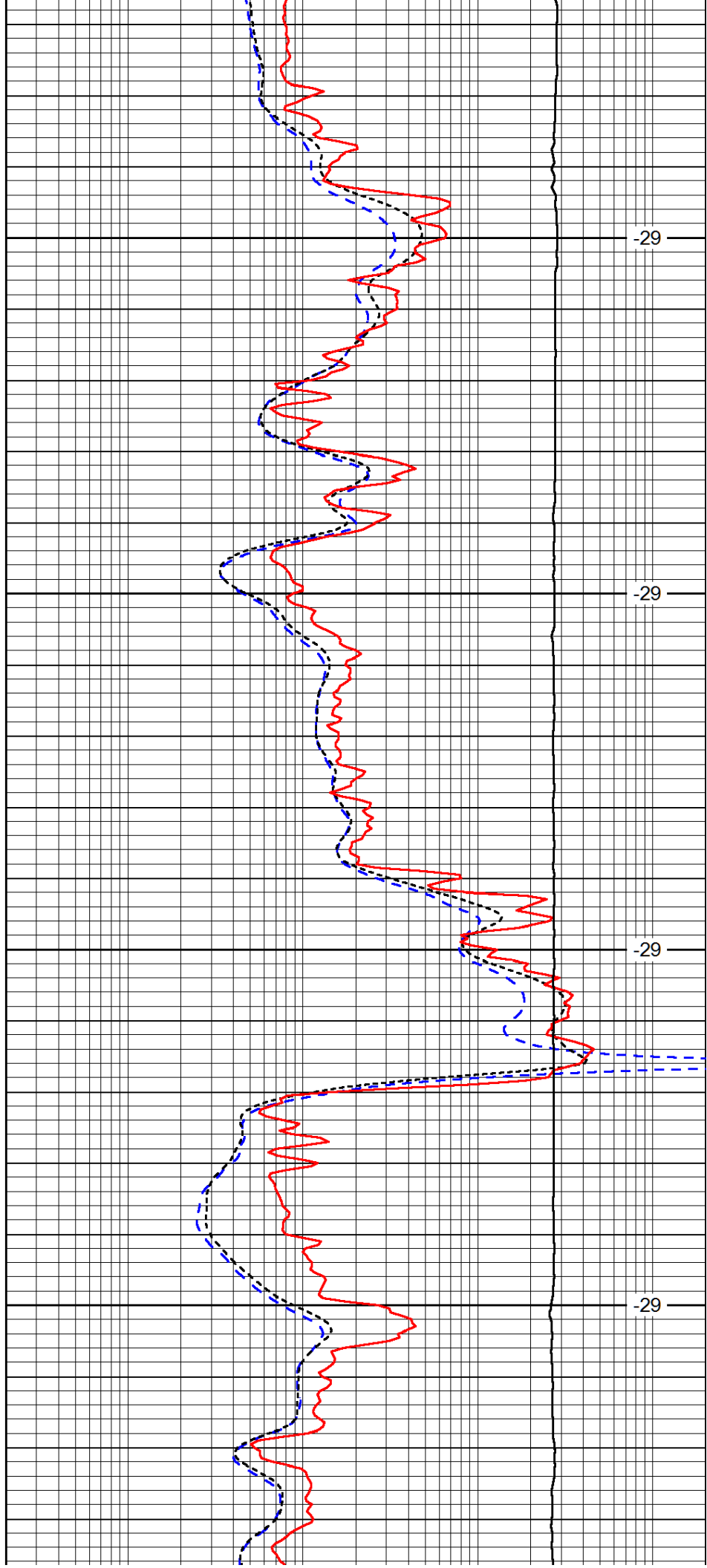


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4550

4600

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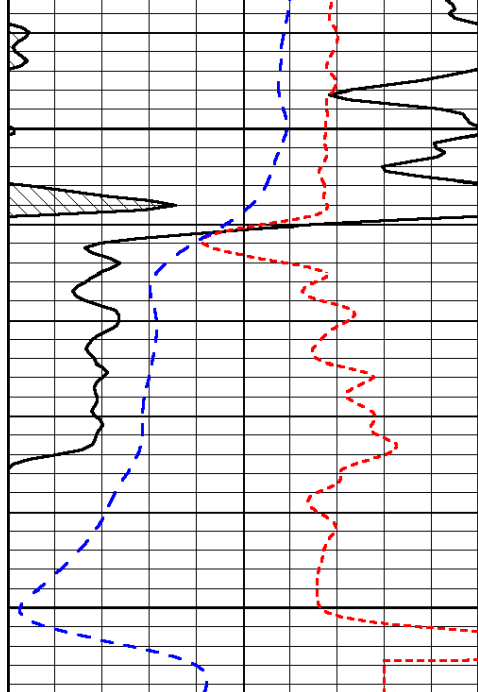


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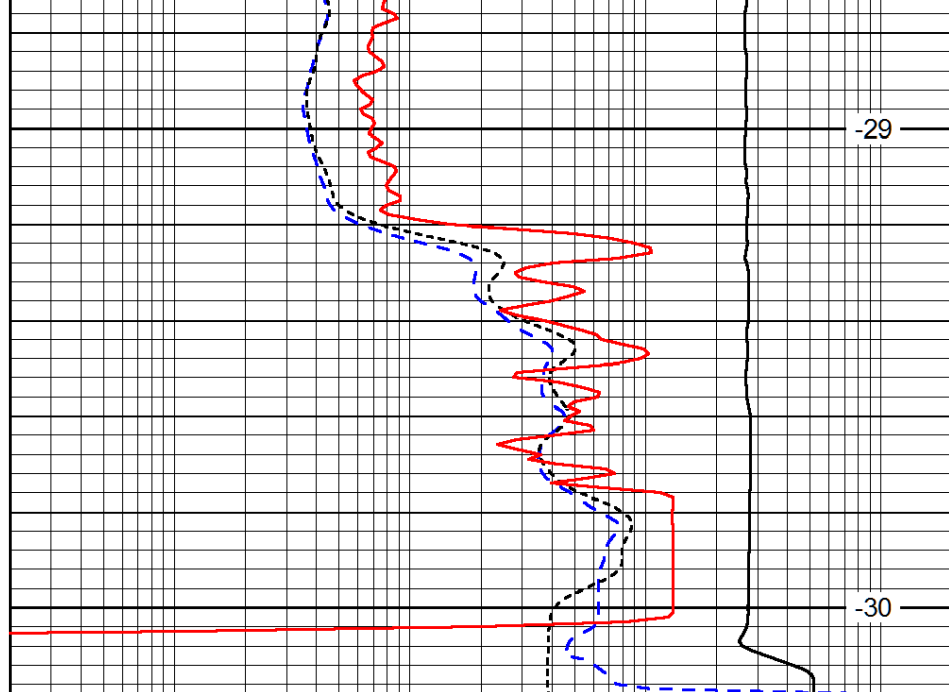
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4700

4750



-29

-30

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)