



Dual Induction Log

Pioneer Energy Services

API No.

15-155-21,616-00-00

Company **Carrie Exploration & Development**

Well **James C - 1**

Field **Unknown**

County **Reno** State **Kansas**

Location **550' FSL & 2310' FEL**

Sec: **3** Twp: **22 S** Rge: **10 W**

Other Services
CNL/CDL
MEL

Elevation

K.B. 1751
D.F. 1743
G.L. 1743

Permanent Datum Ground Level Elevation 1743
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 12/21/2012

Run Number One

Depth Driller 3630

Depth Logger 3627

Bottom Logged Interval 3626

Top Log Interval 250

Casing Driller 8.625 @ 275

Casing Logger 276

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 5,000

Density / Viscosity 9.4 51

pH / Fluid Loss 9.5 N/A

Source of Sample Flowline

Rm @ Meas. Temp .50 @ 65

Rmf @ Meas. Temp .38 @ 65

Rmc @ Meas. Temp .68 @ 65

Source of Rmf / Rmc Charts

Rm @ BHT .29 @ 112

Operating Rig Time 4 1/2 Hours

Max Rec. Temp. F 112

Equipment Number 108

Location Hays

Recorded By D. Martin

Witnessed By Herb Deines

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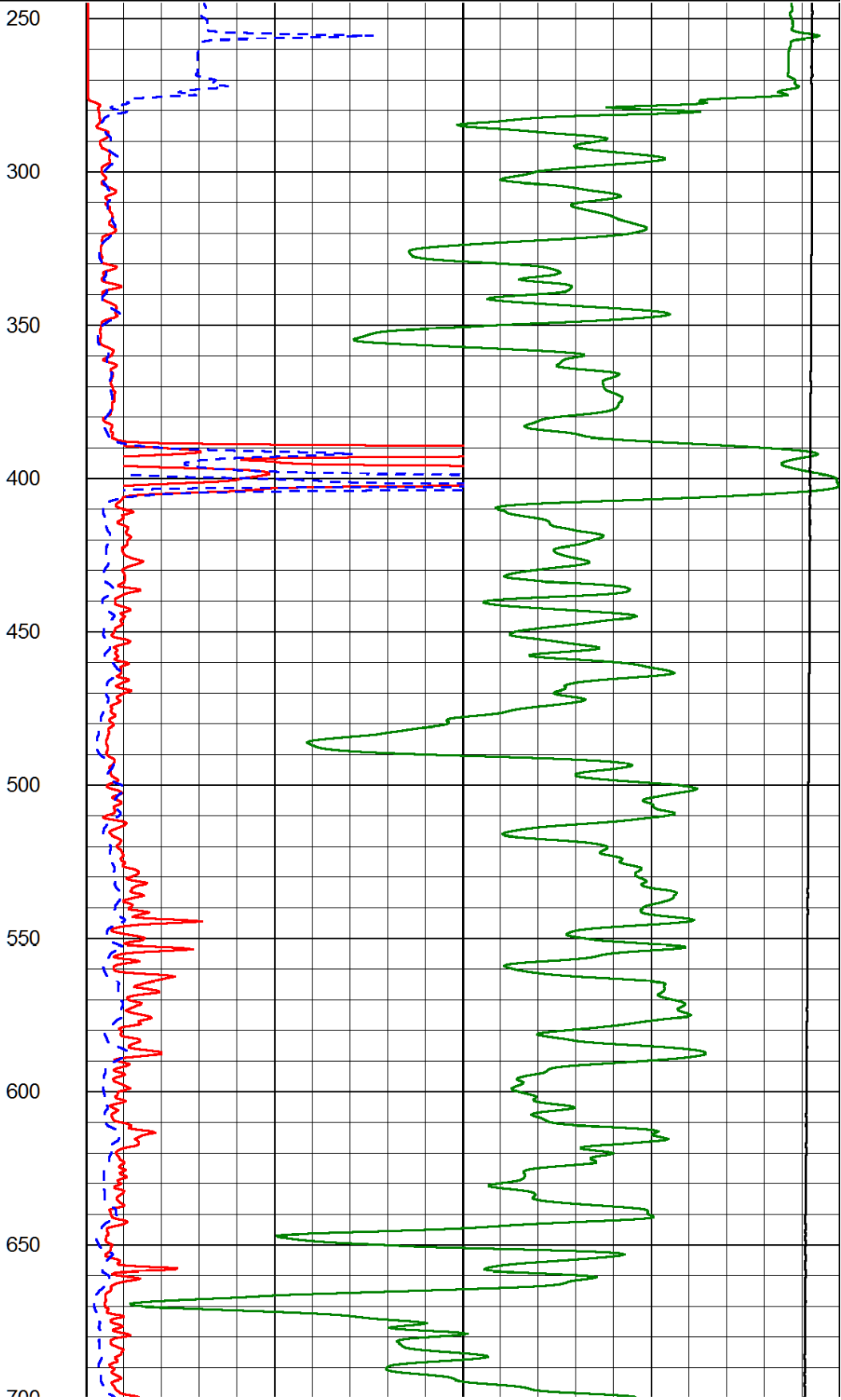
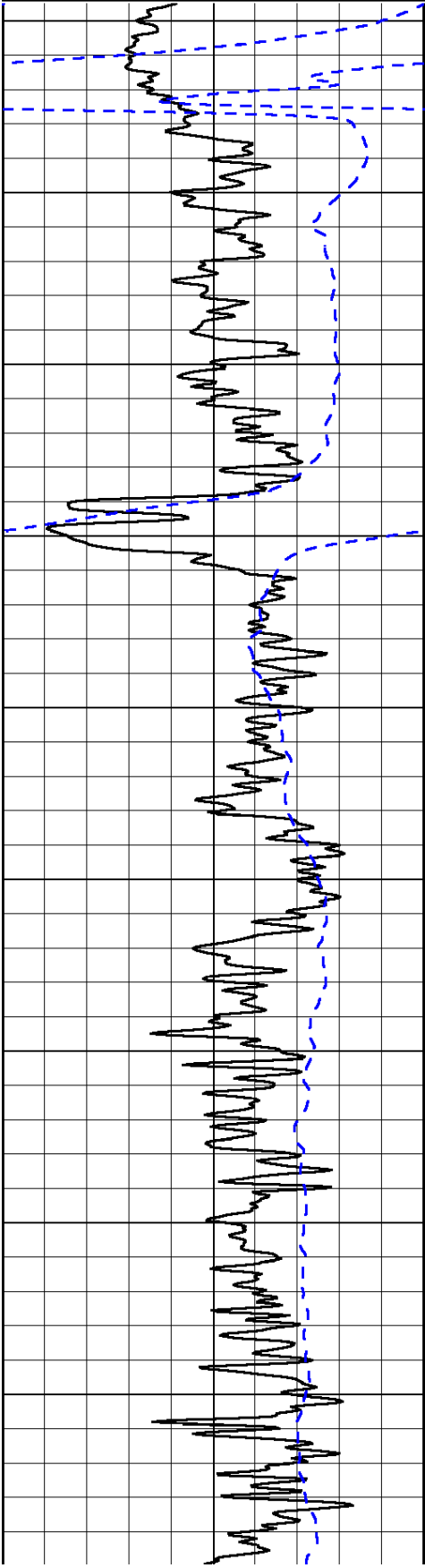
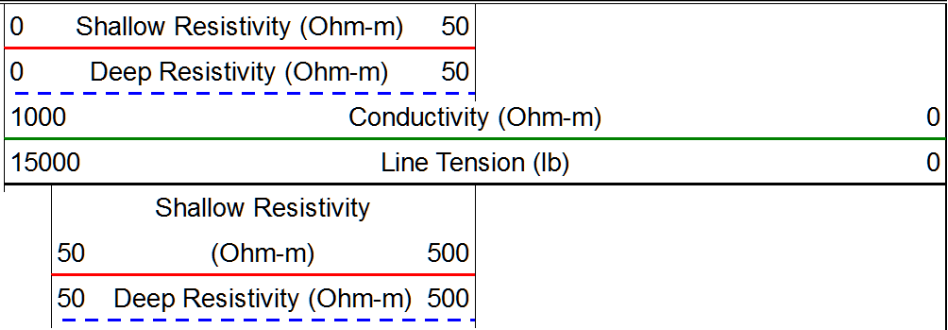
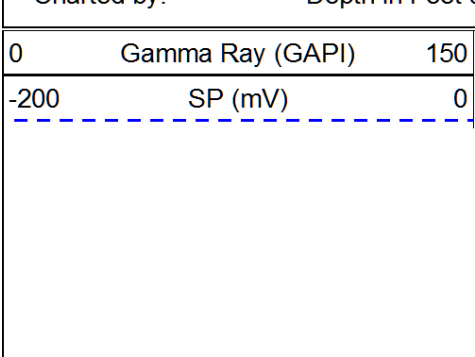
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

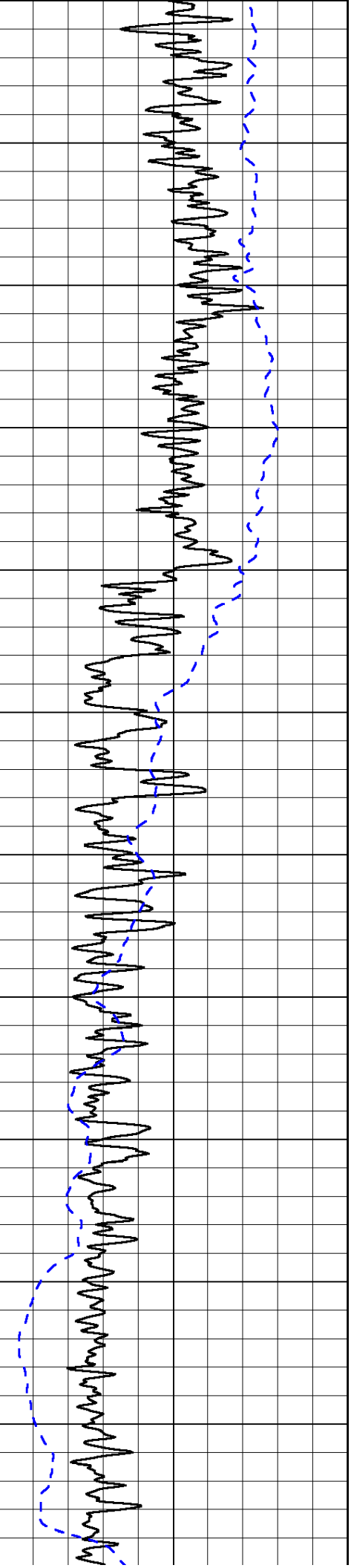
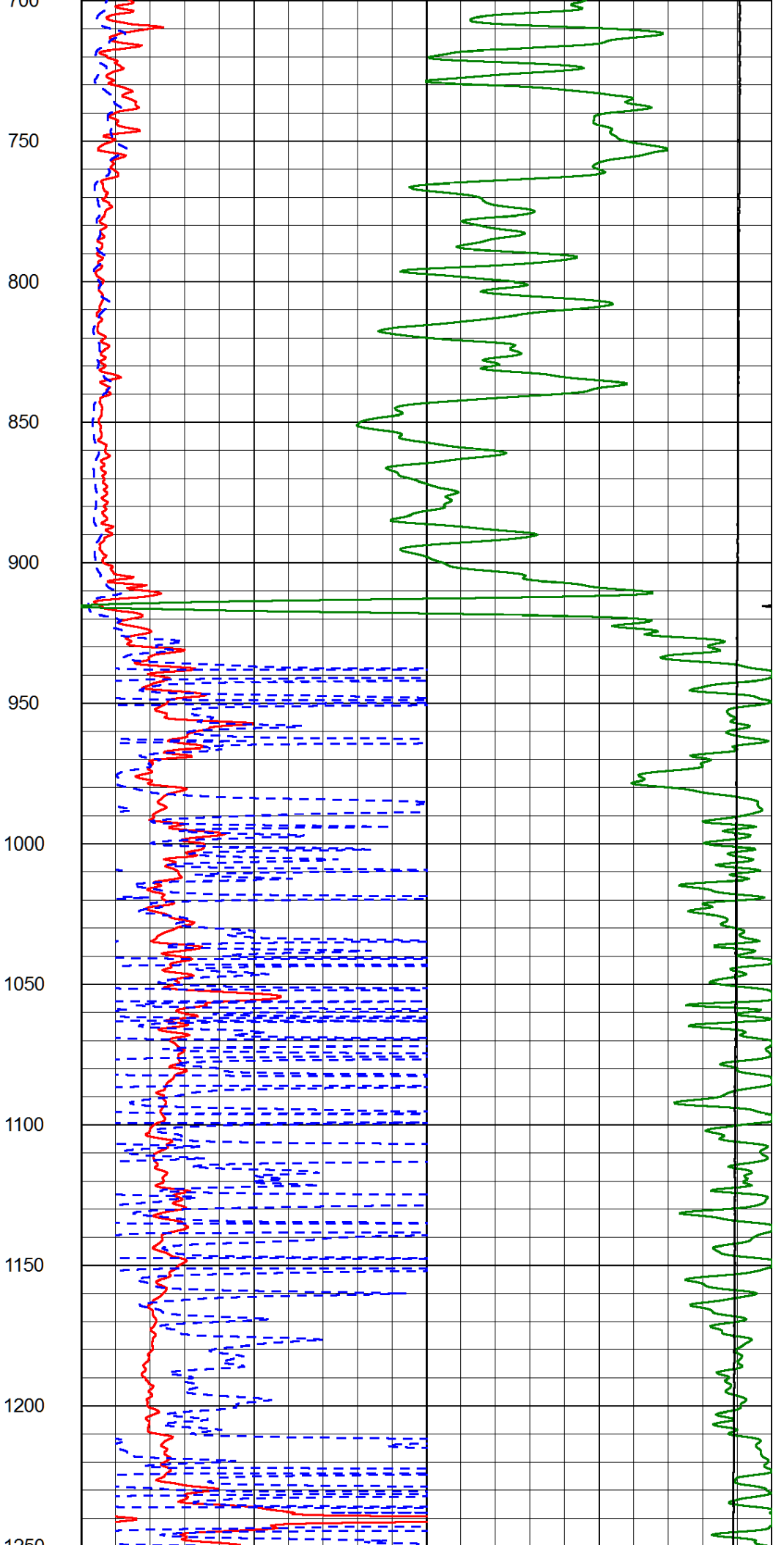
Comments

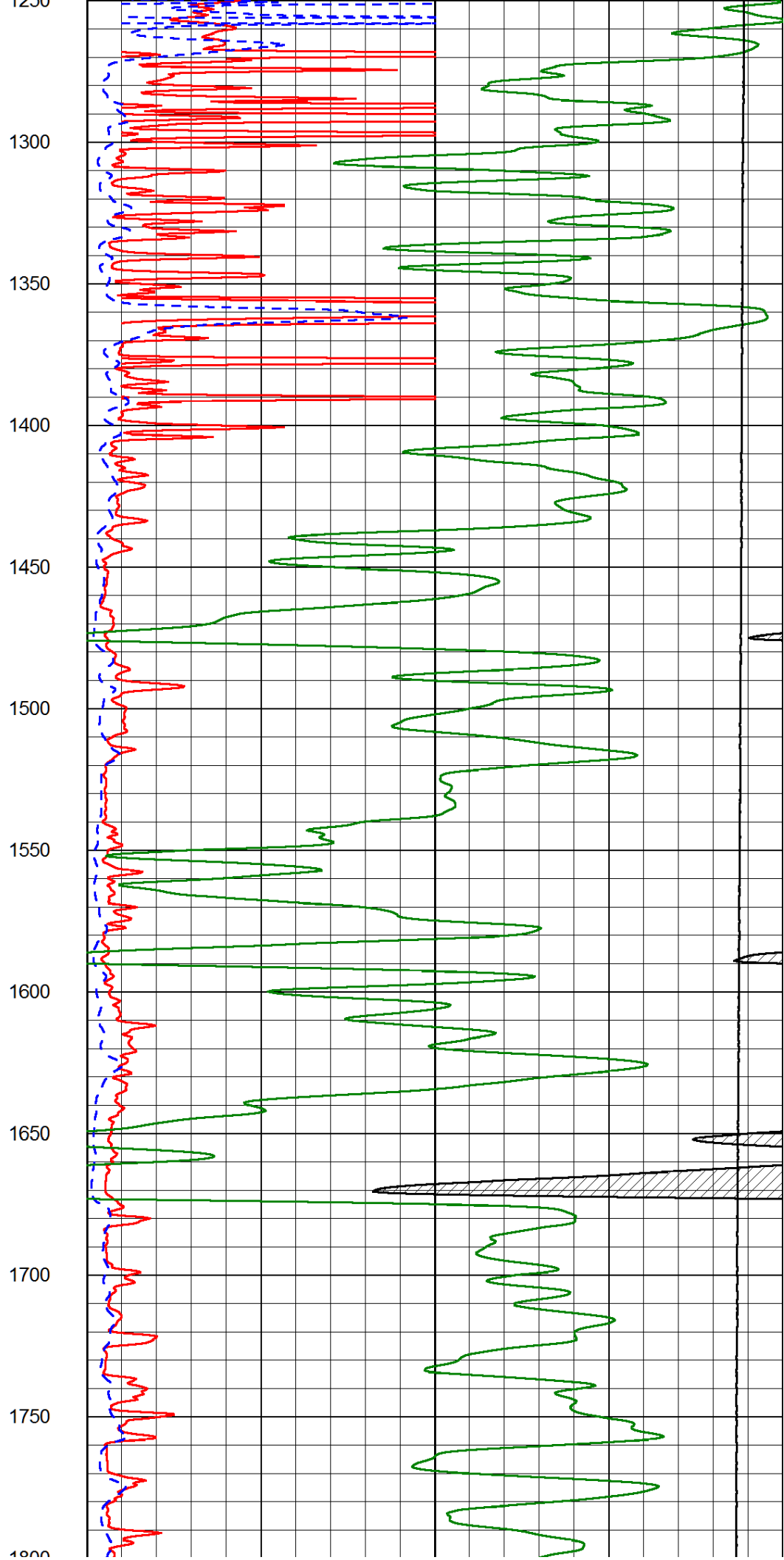
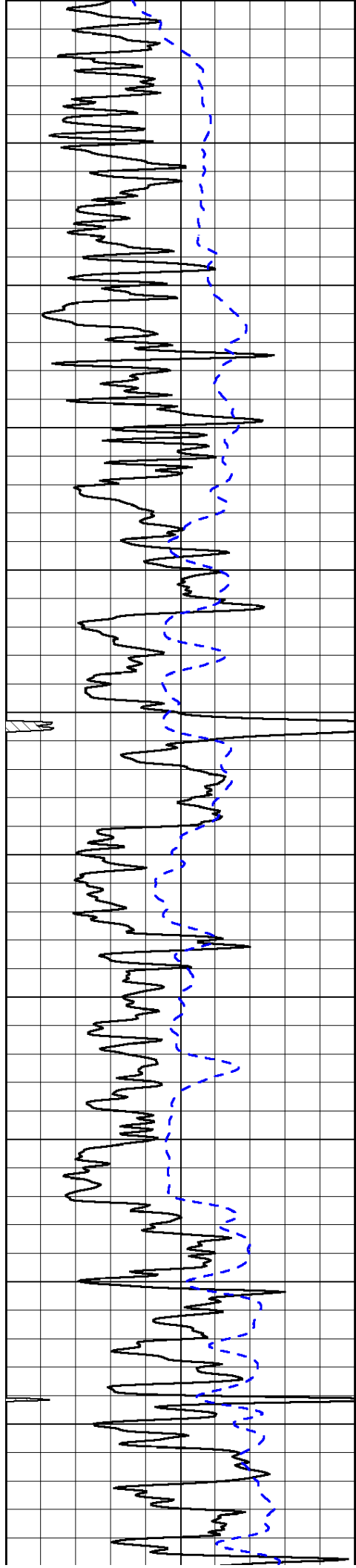
Thank you for using Log-Tech, Inc.
(785) 625-3858

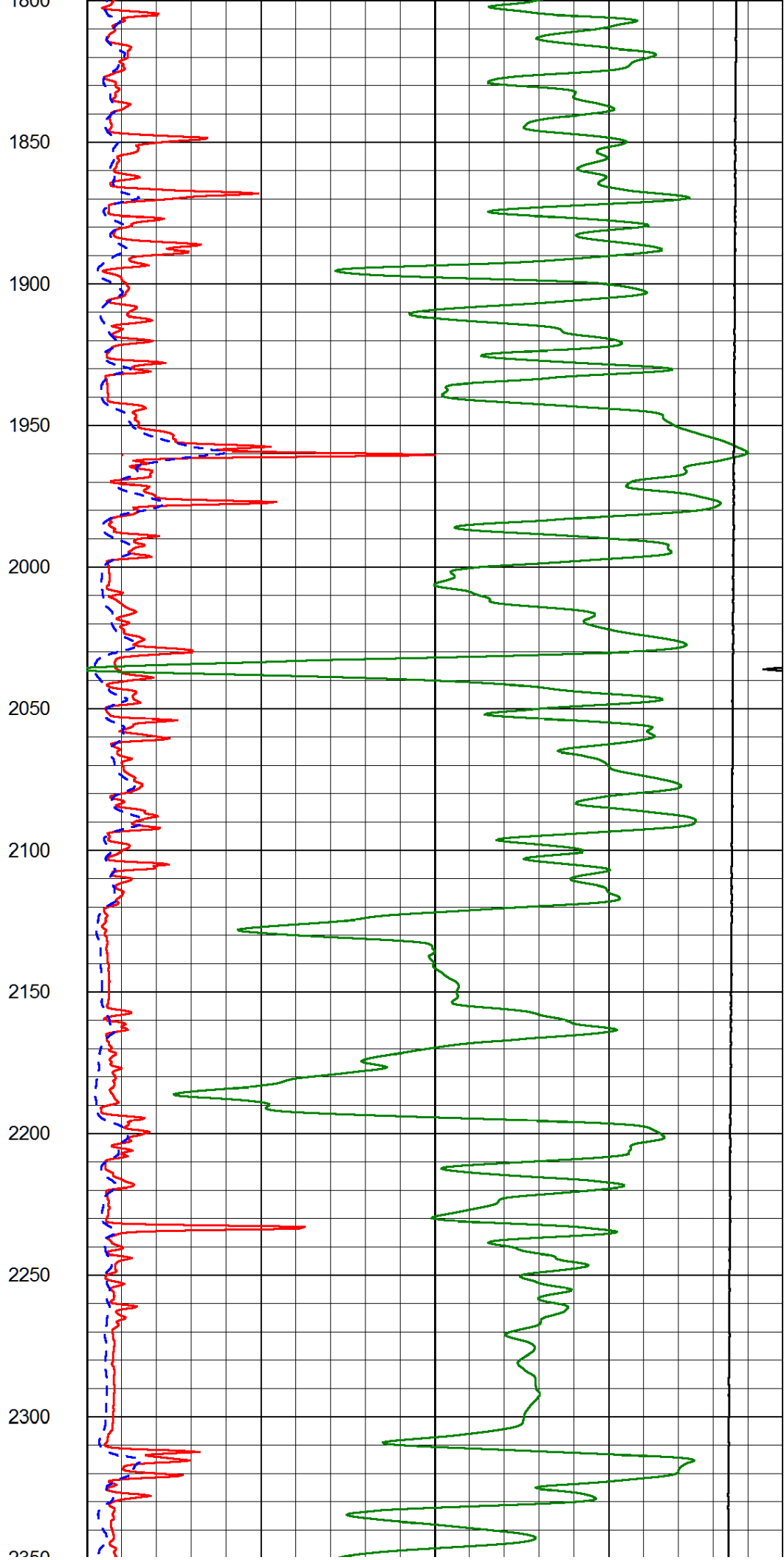
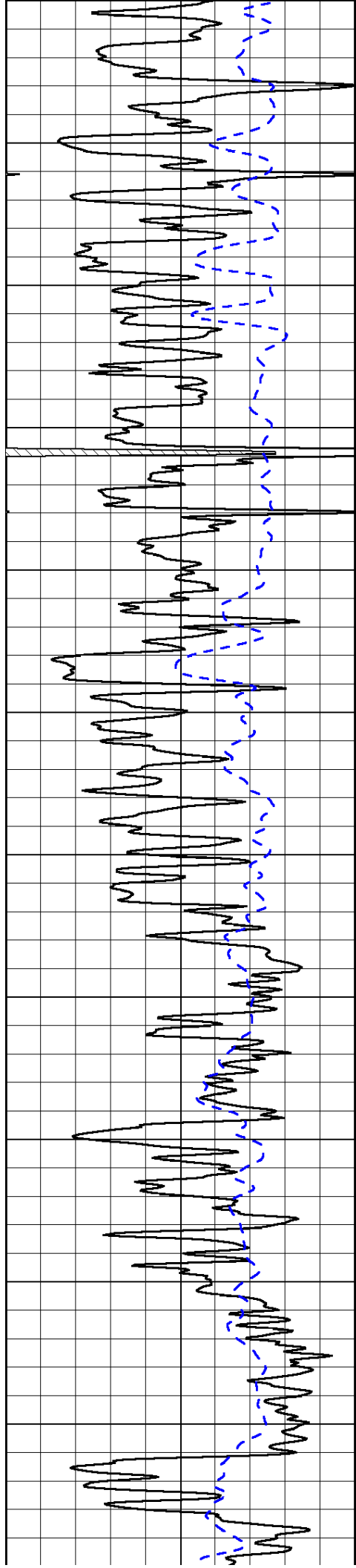
Hwys 281 & 19 Junction,
18 1/2 E, N Into

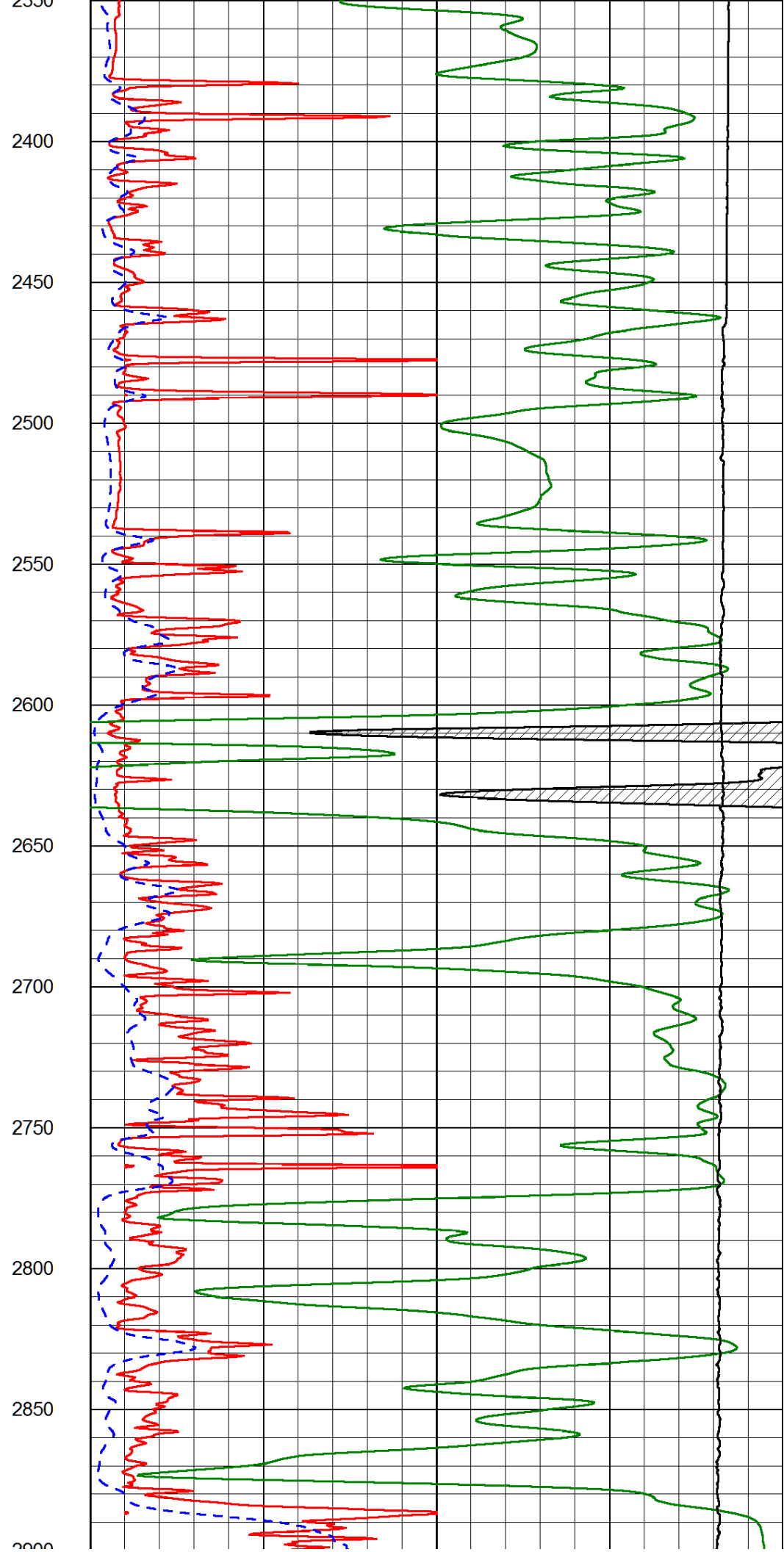
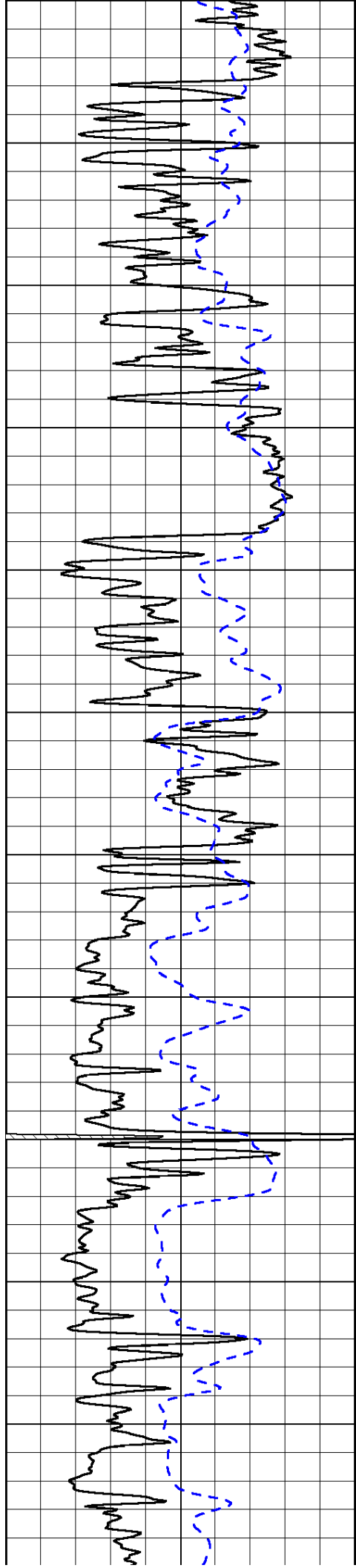
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Charted by: Depth in Feet scaled 1:600

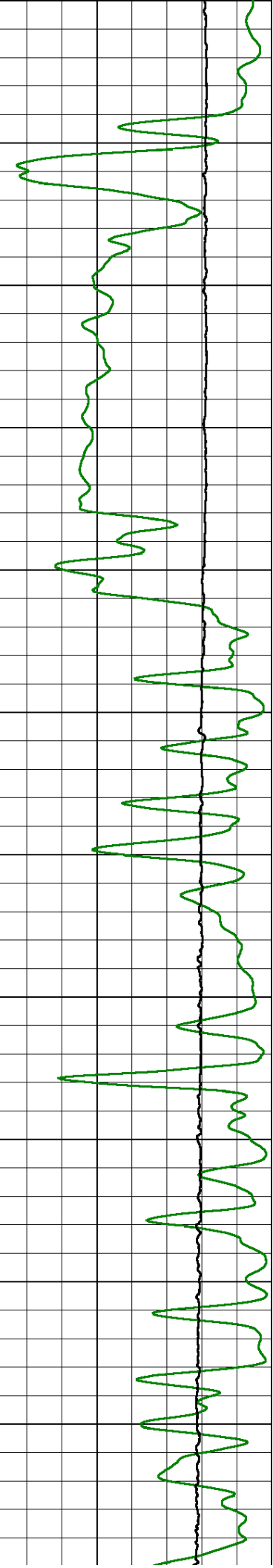
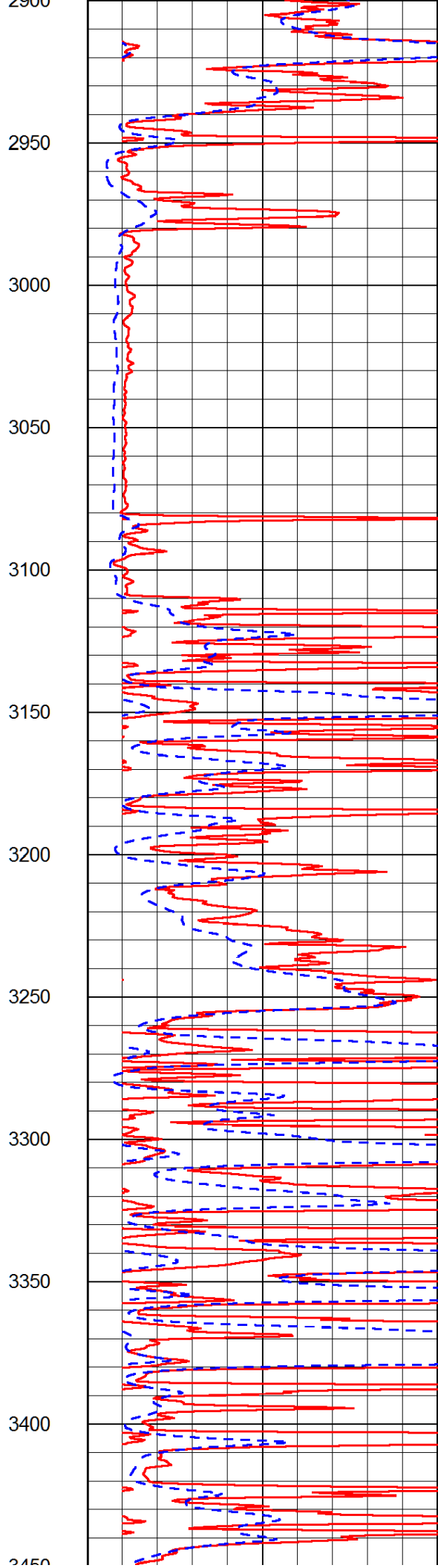
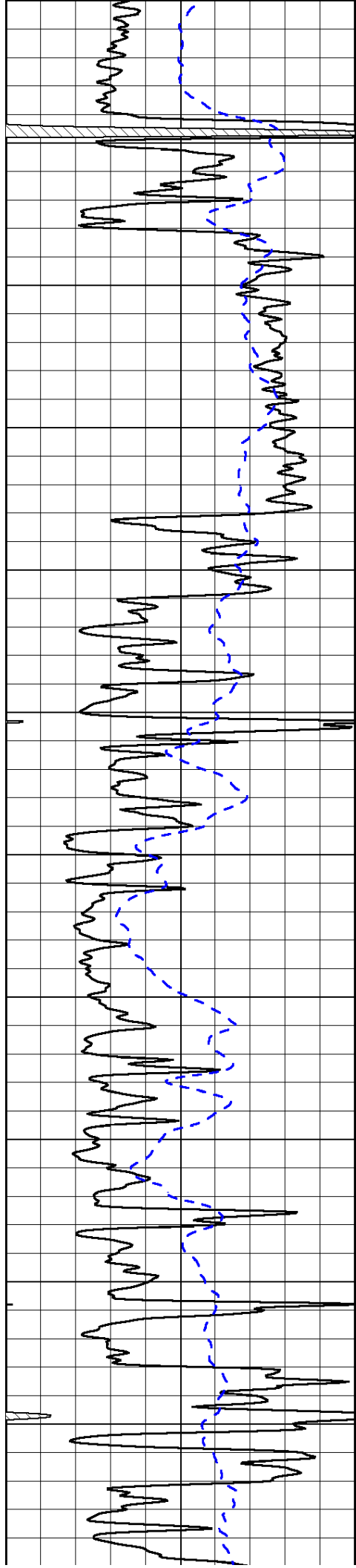


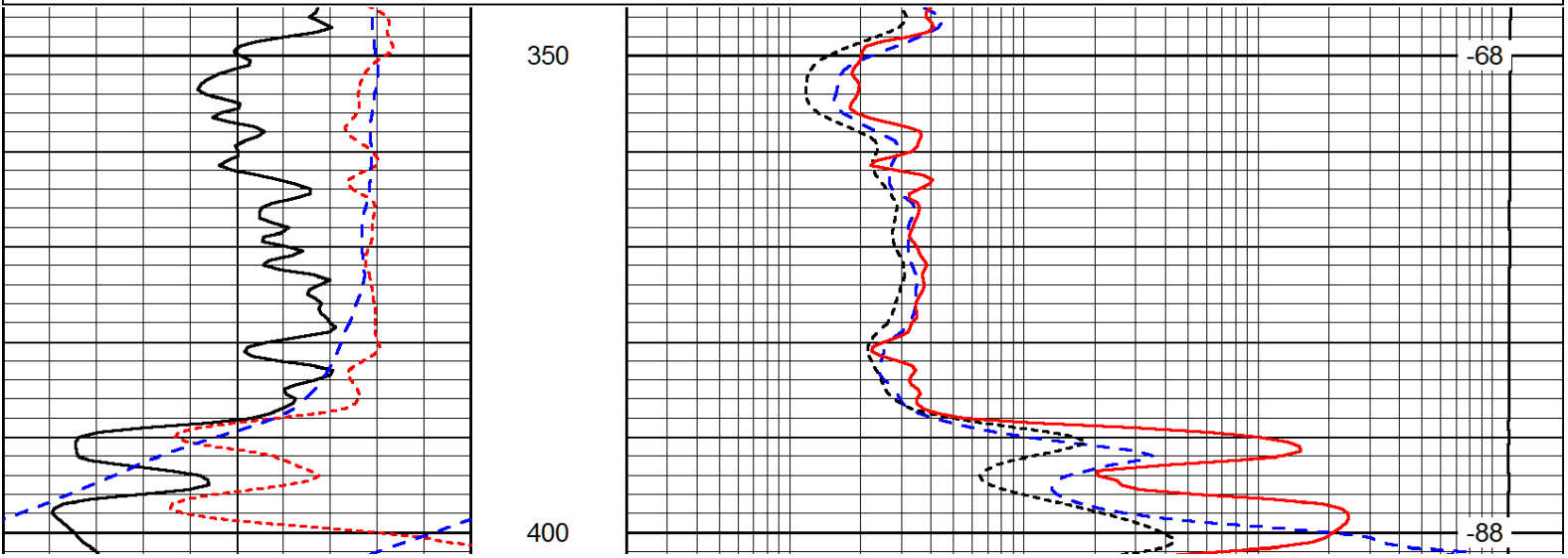
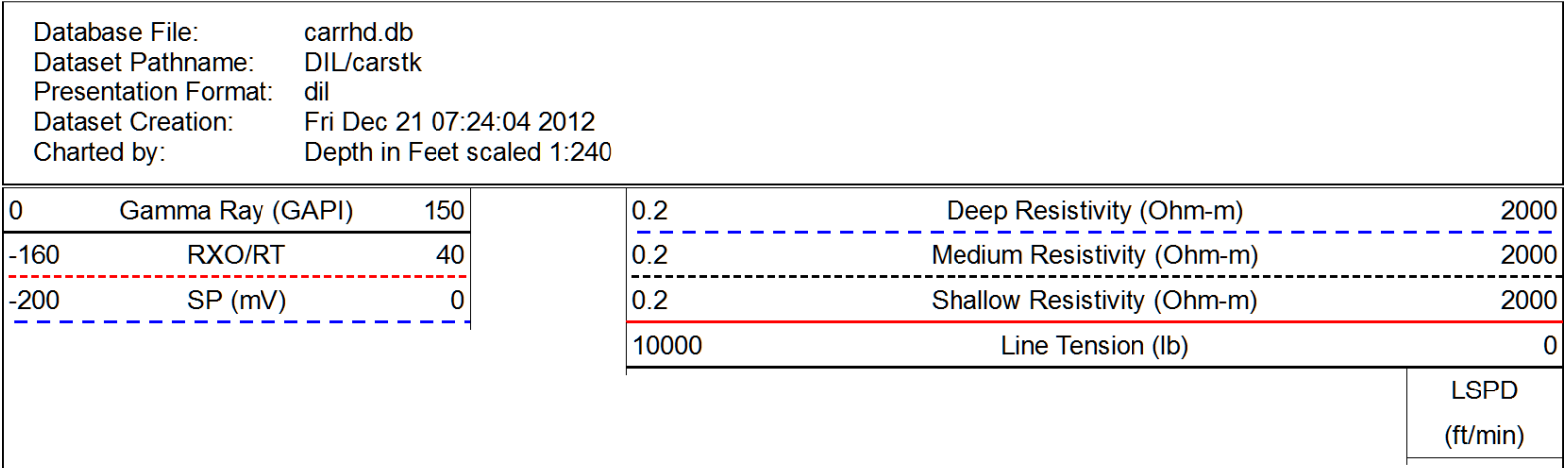
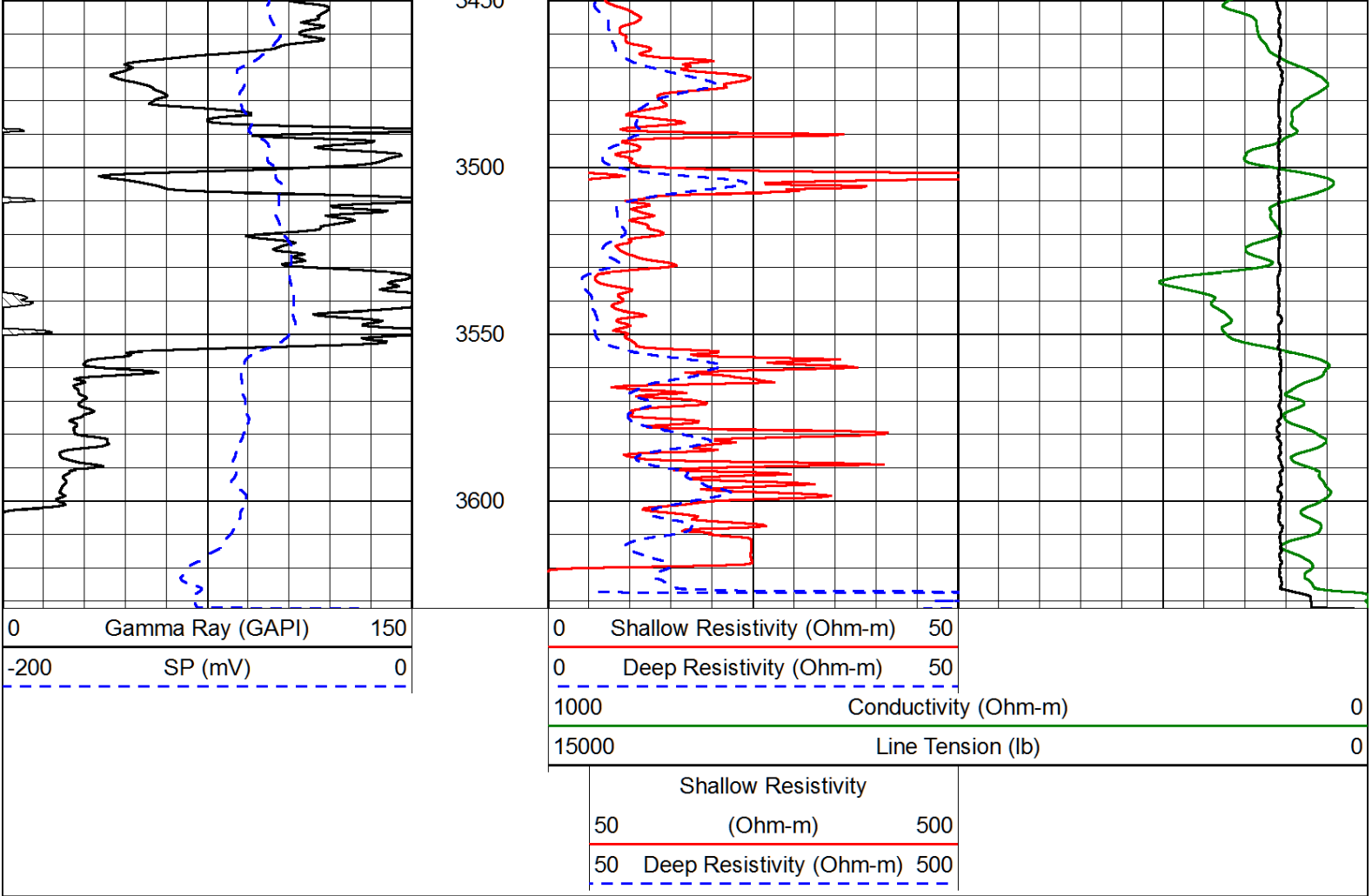


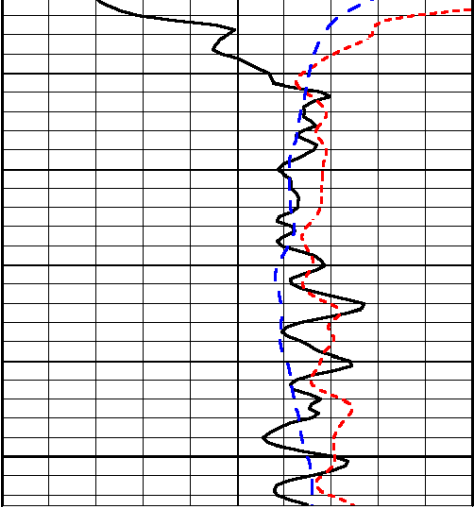






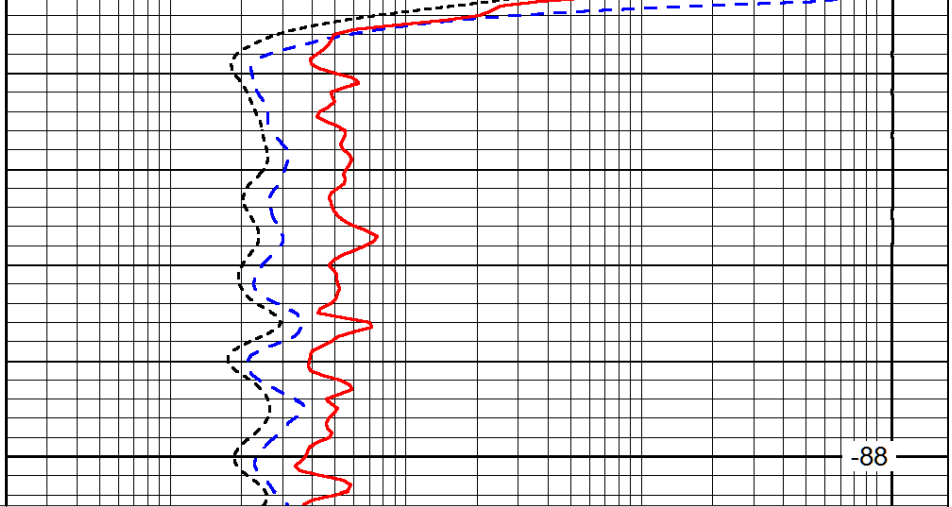






0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

450



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

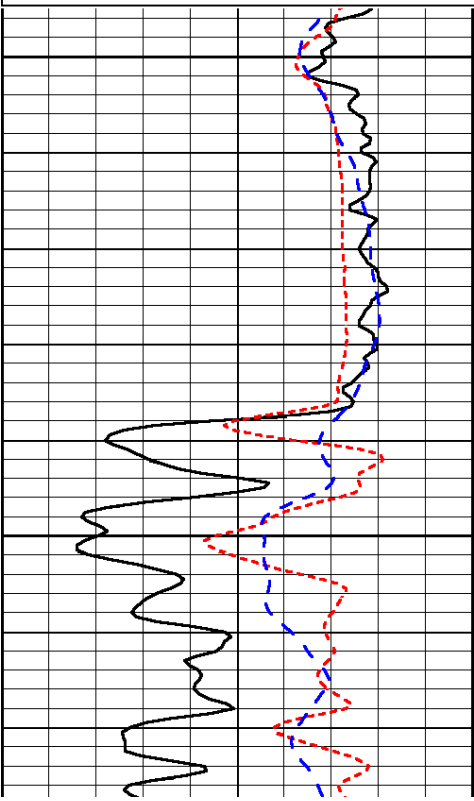
LSPD
(ft/min)

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Dataset Pathname: DIL/carstk
Presentation Format: dil
Dataset Creation: Fri Dec 21 07:24:04 2012
Charted by: Depth in Feet scaled 1:240

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

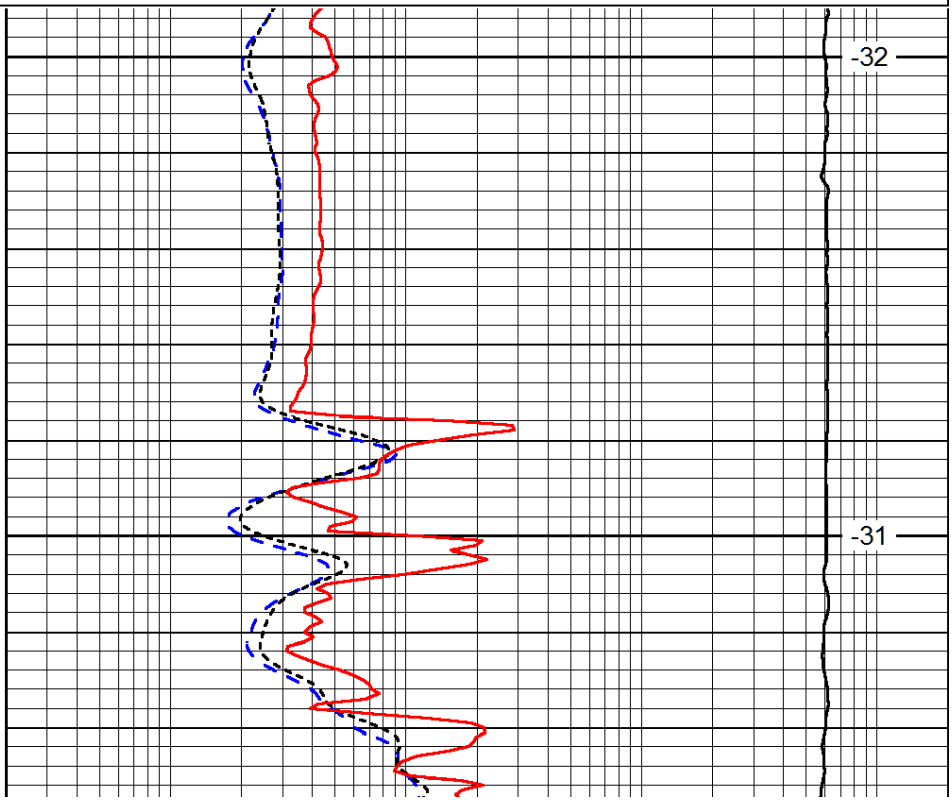
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0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



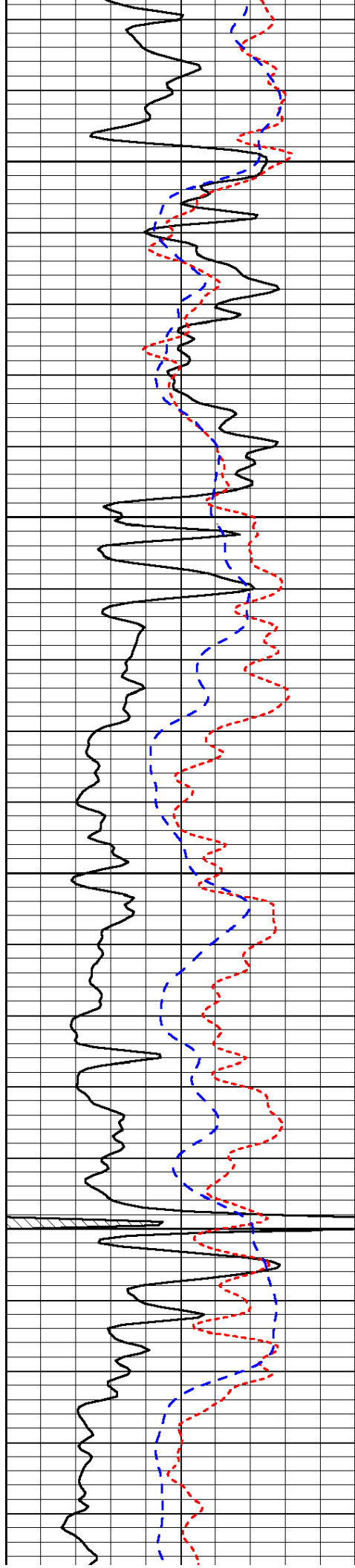
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2550



-32

-31

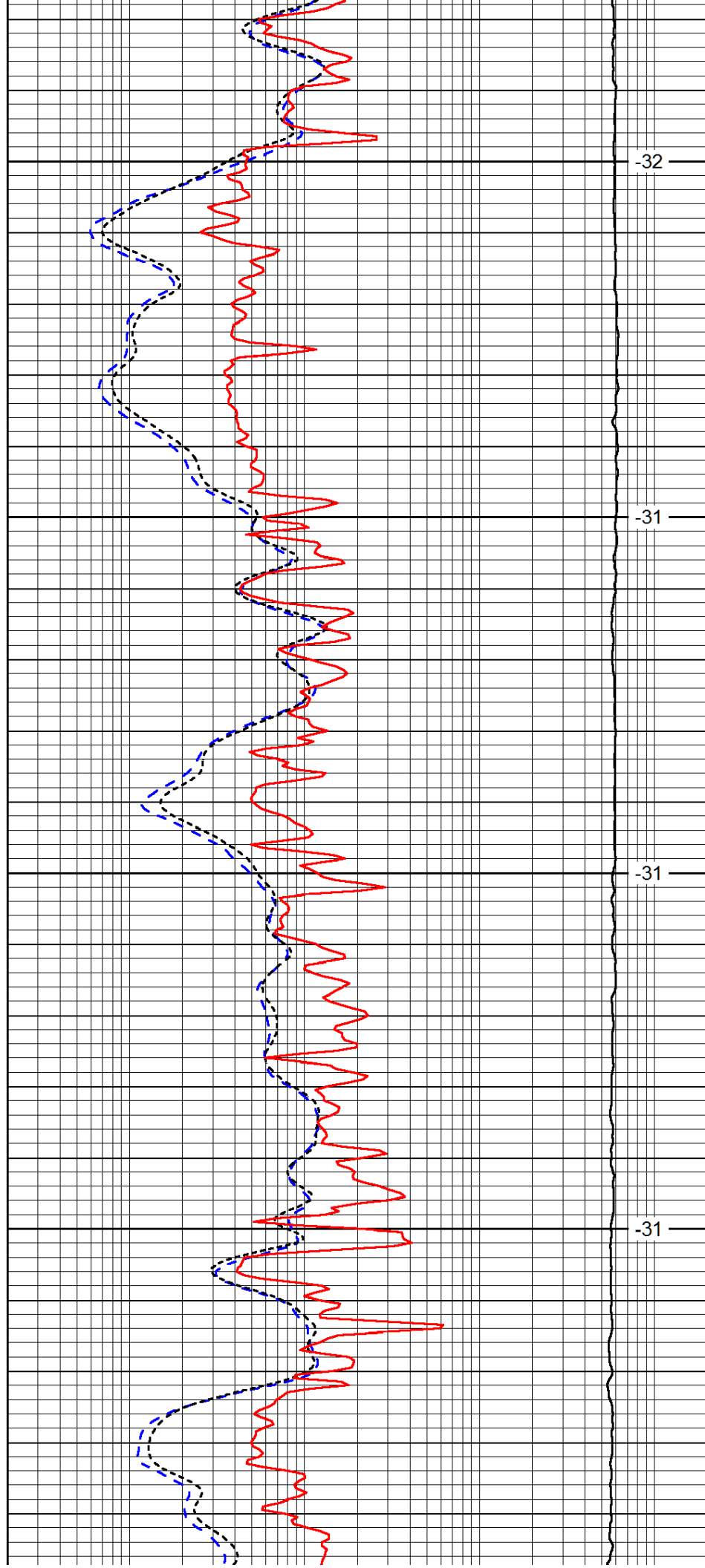


2600

2650

2700

2750

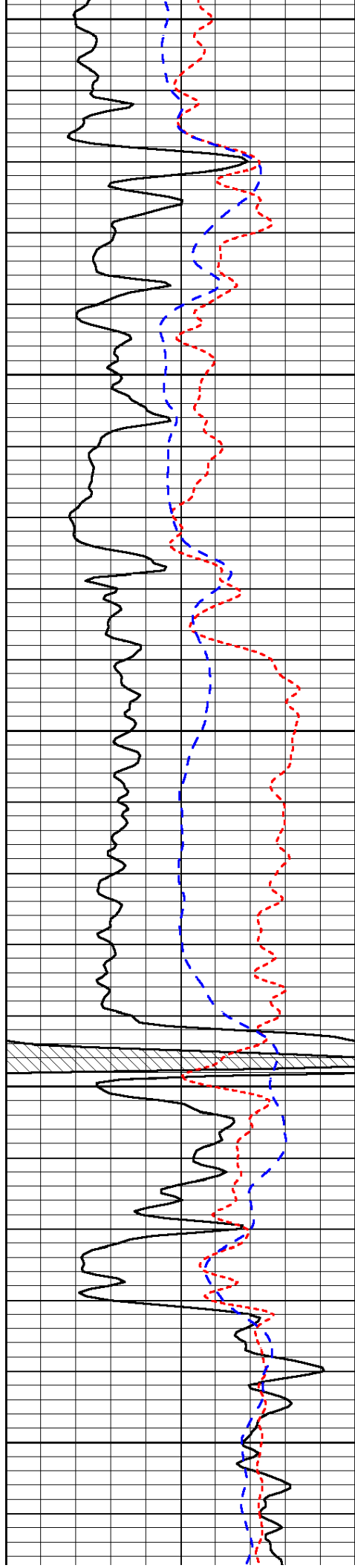


-32

-31

-31

-31



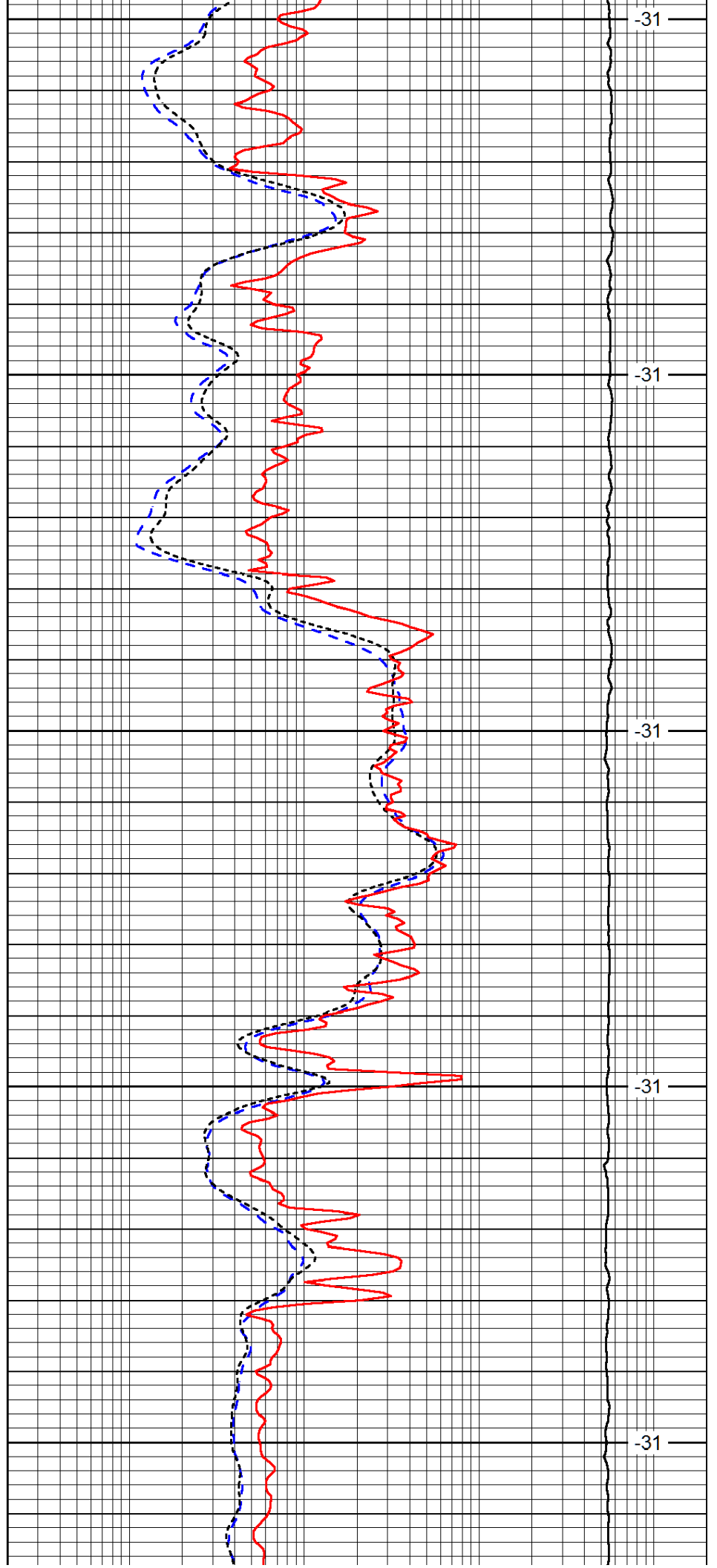
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2850

2900

2950

3000



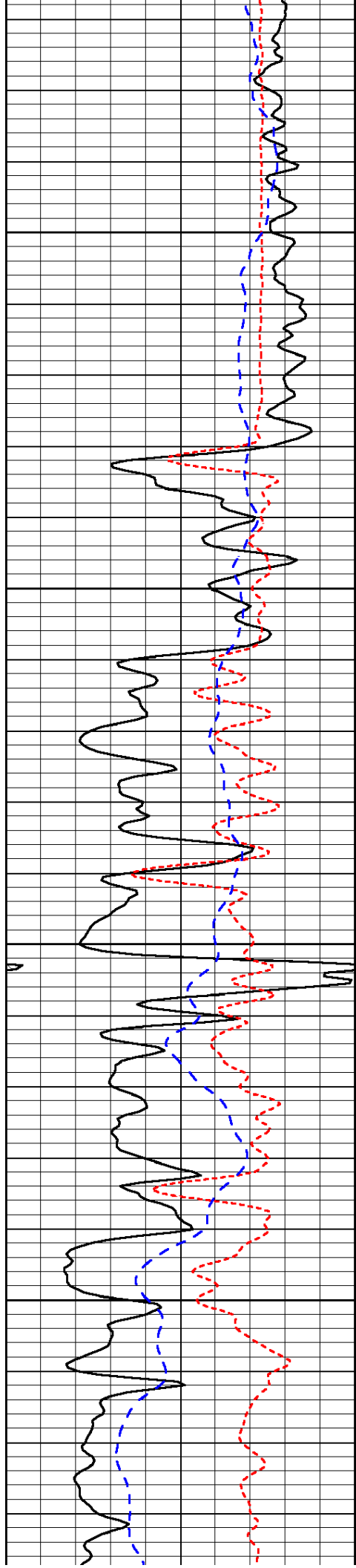
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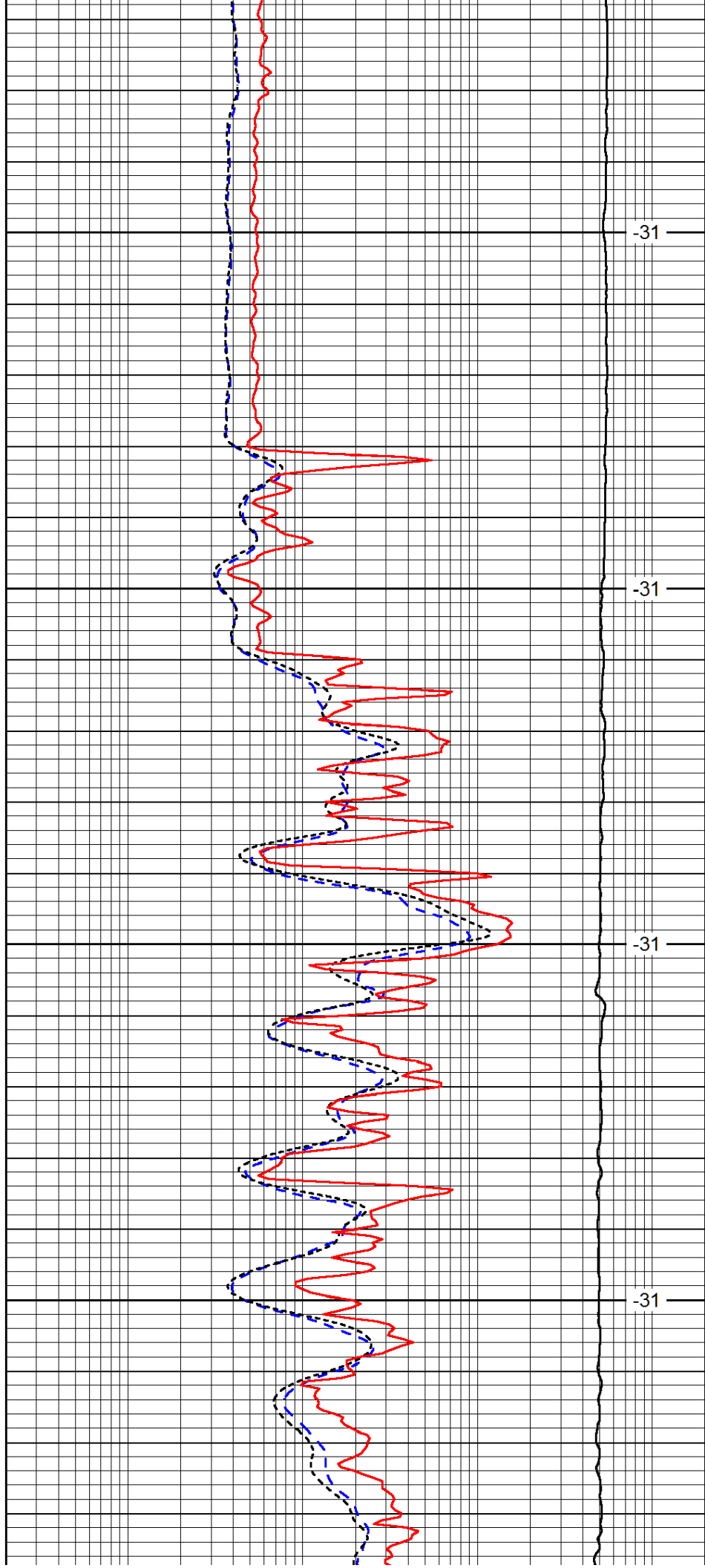


3050

3100

3150

3200

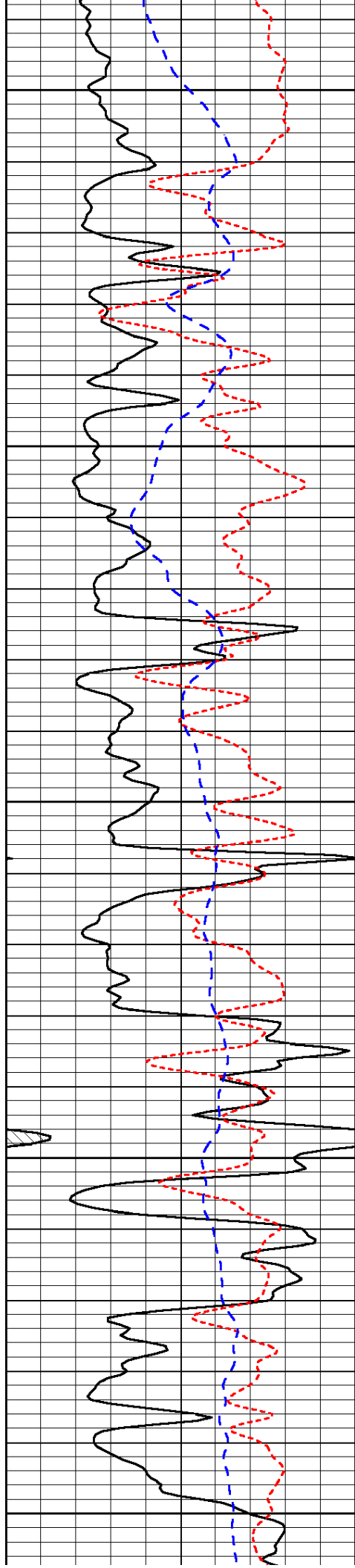


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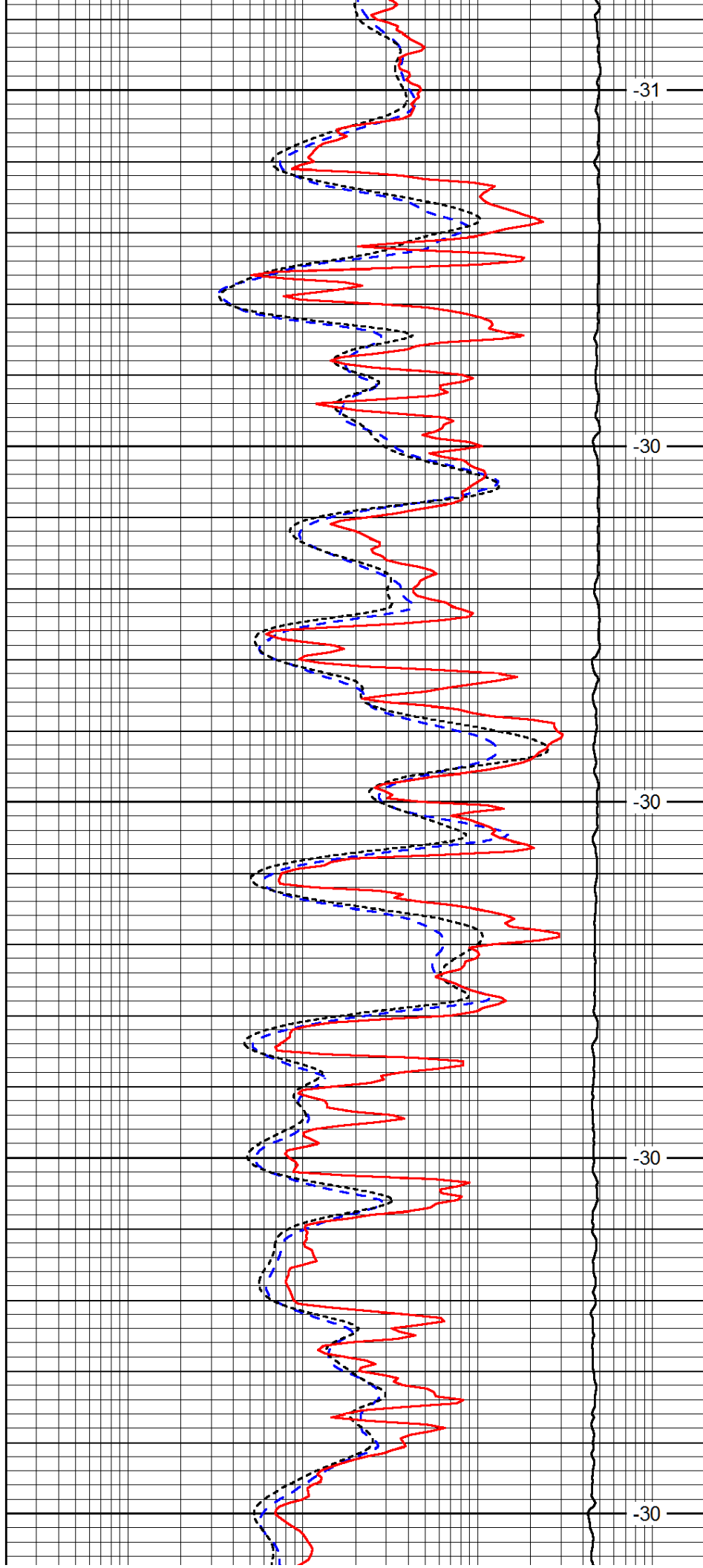
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3300

3350

3400

3450



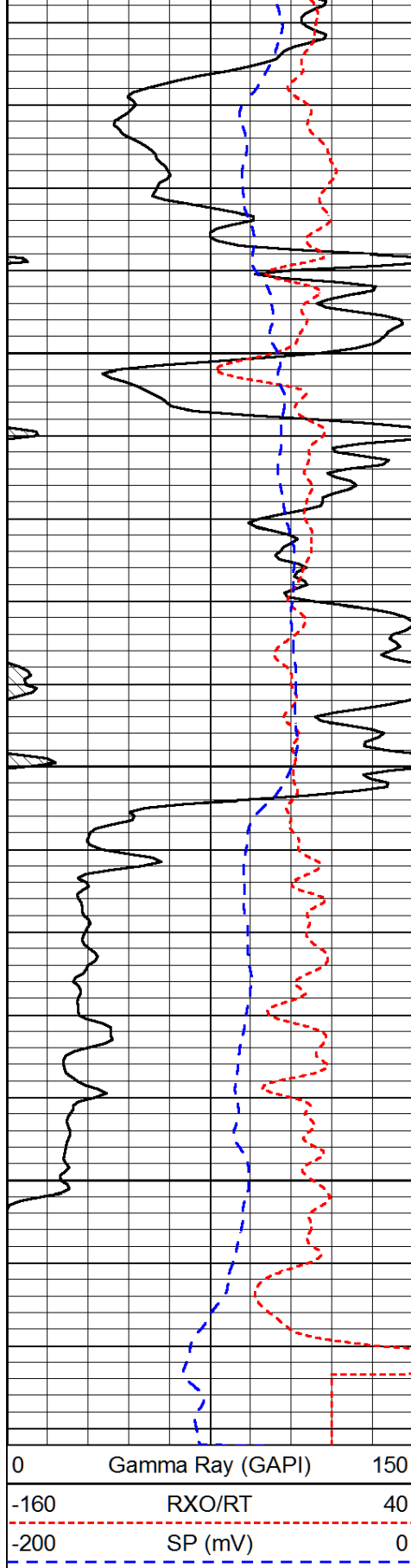
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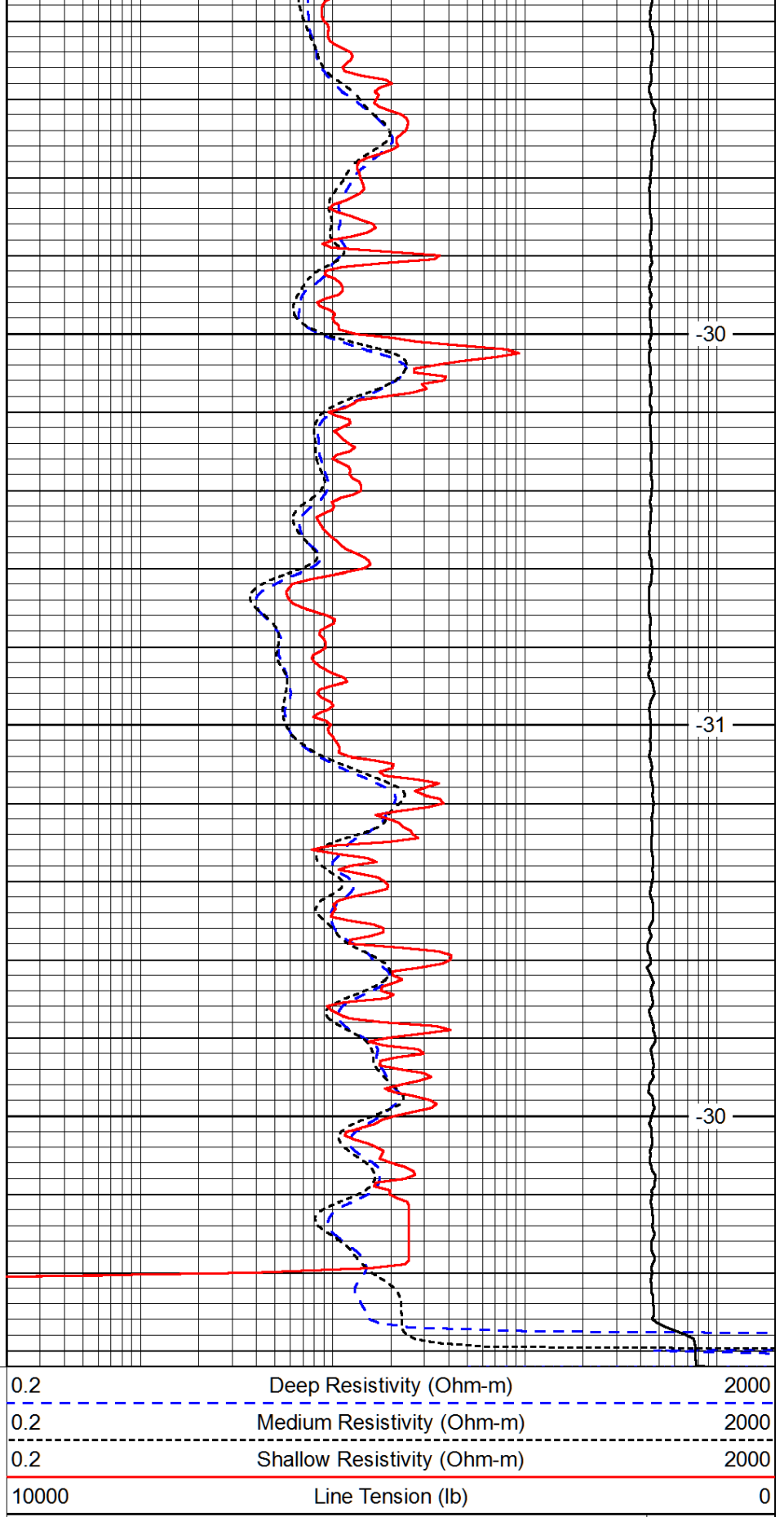
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3500

3550

3600



-30

-31

-30

LSPD
(ft/min)