



Dual Induction Log

Pioneer Energy Services

API No.

15-163-24,111-00-00

Company Gore Oil Company

Well Toelkes No. 1

Field O' Brien

County Rocks State

Kansas

Location 550' FSL & 2,970' FEL

Sec: 11 Twp: 9S Rge: 18W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2065

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 2073
D.F. 2065
G.L. 2065

Date

5/20/2013

Run Number

One

Depth Driller

3580

Depth Logger

3578

Bottom Logged Interval

3577

Top Log Interval

250

Casing Driller

8.625 @ 263

Casing Logger

262

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2700

Density / Viscosity

9.1 59

pH / Fluid Loss

10.5 7.4

Source of Sample

Flowline

Rm @ Meas. Temp

.50 @ 74

Rmf @ Meas. Temp

.38 @ 74

Rmc @ Meas. Temp

.68 @ 74

Source of Rmf / Rmc

Charts

Rm @ BHT

.33 @ 112

Operating Rig Time

4 Hours

Max Rec. Temp. F

112

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Marc Downing

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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

Plainville, 3 North, 100 Yards West, North Into

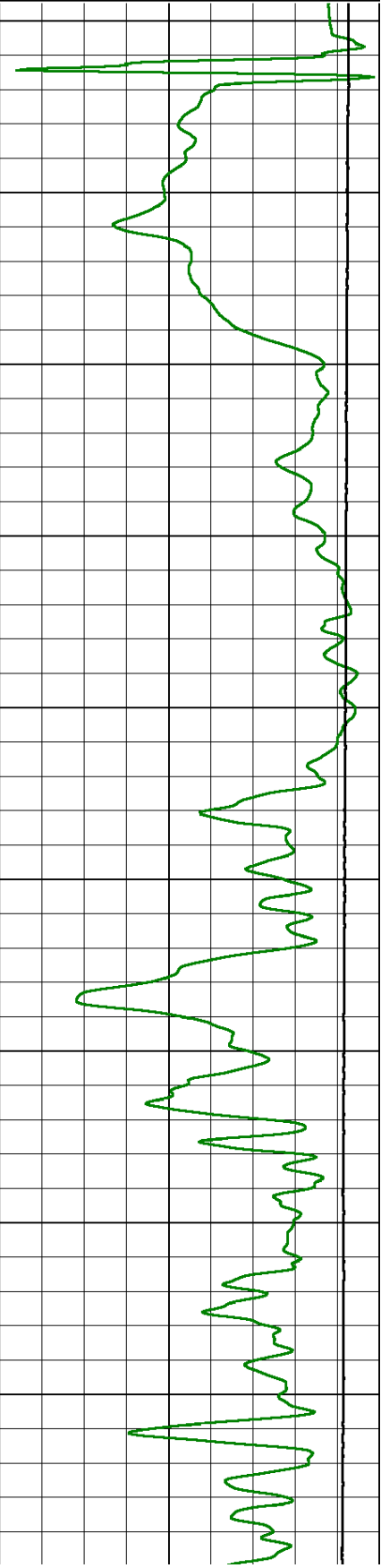
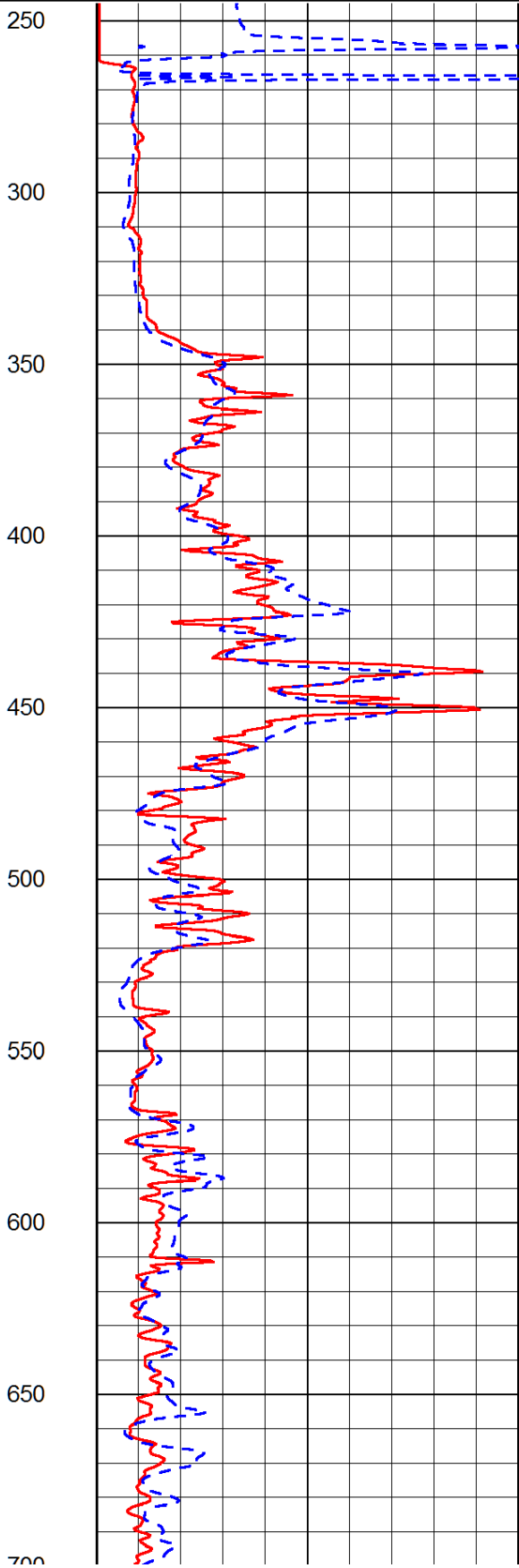
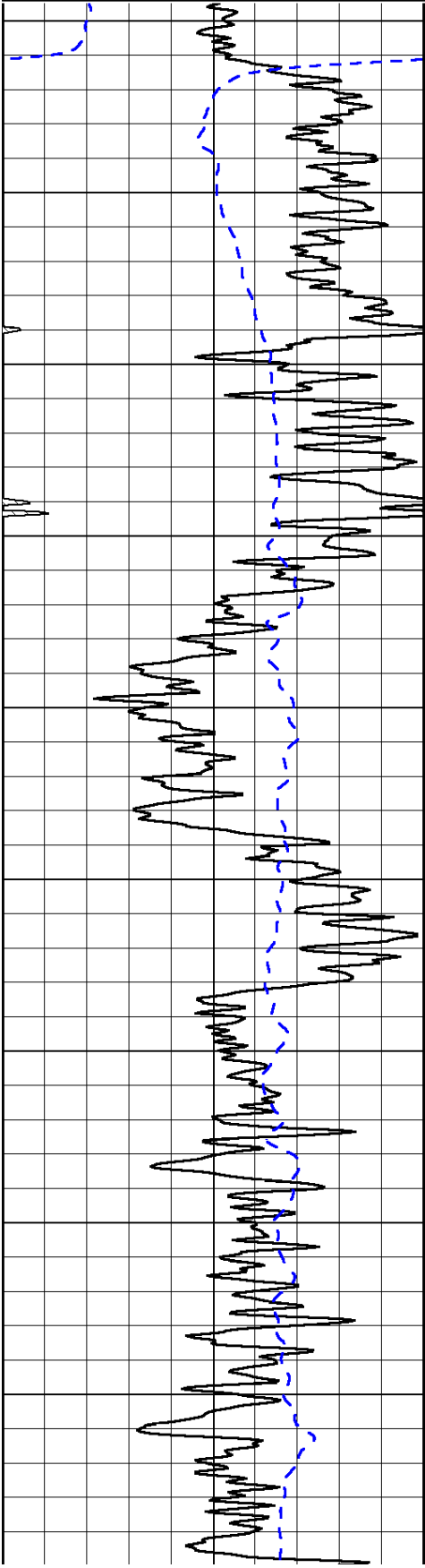
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Dataset Pathname: dil/gorestck
Presentation Format: dil2in
Dataset Creation: Mon May 20 14:04:01 2013
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:600

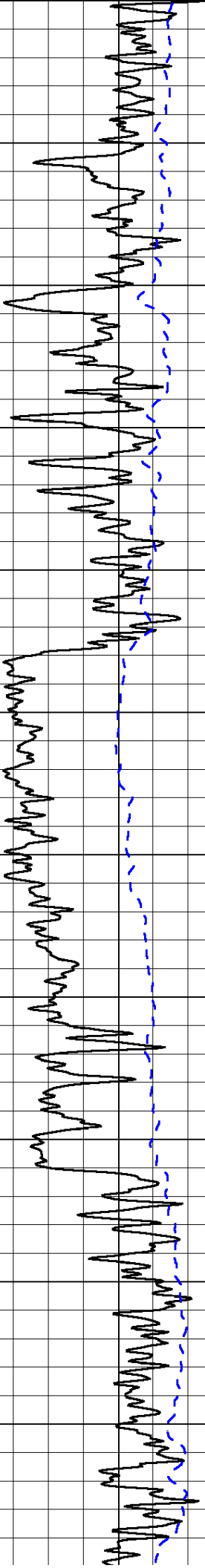
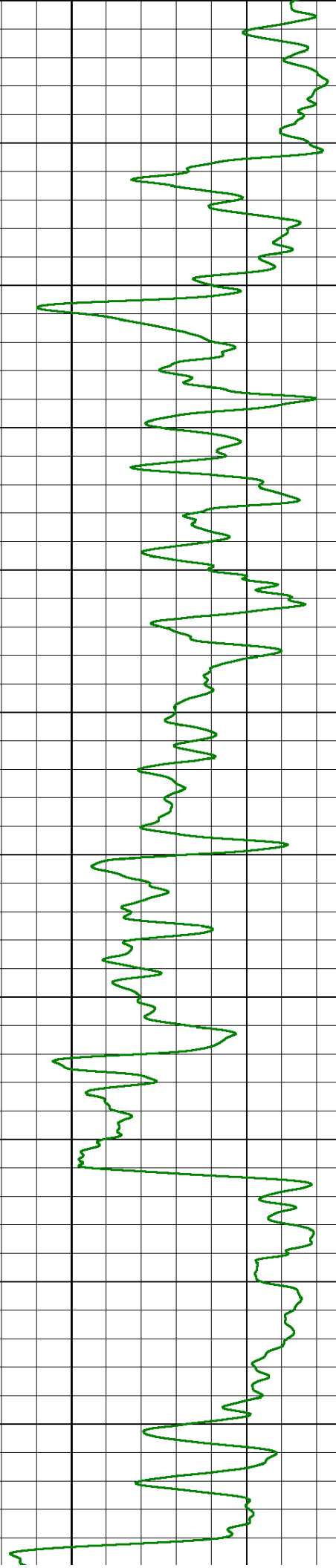
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-200	SP (mV)	0

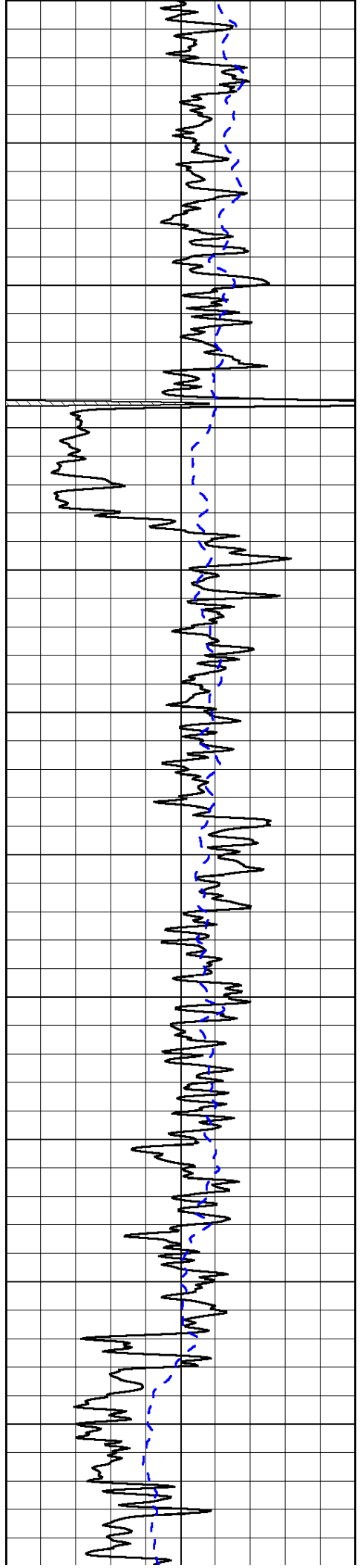
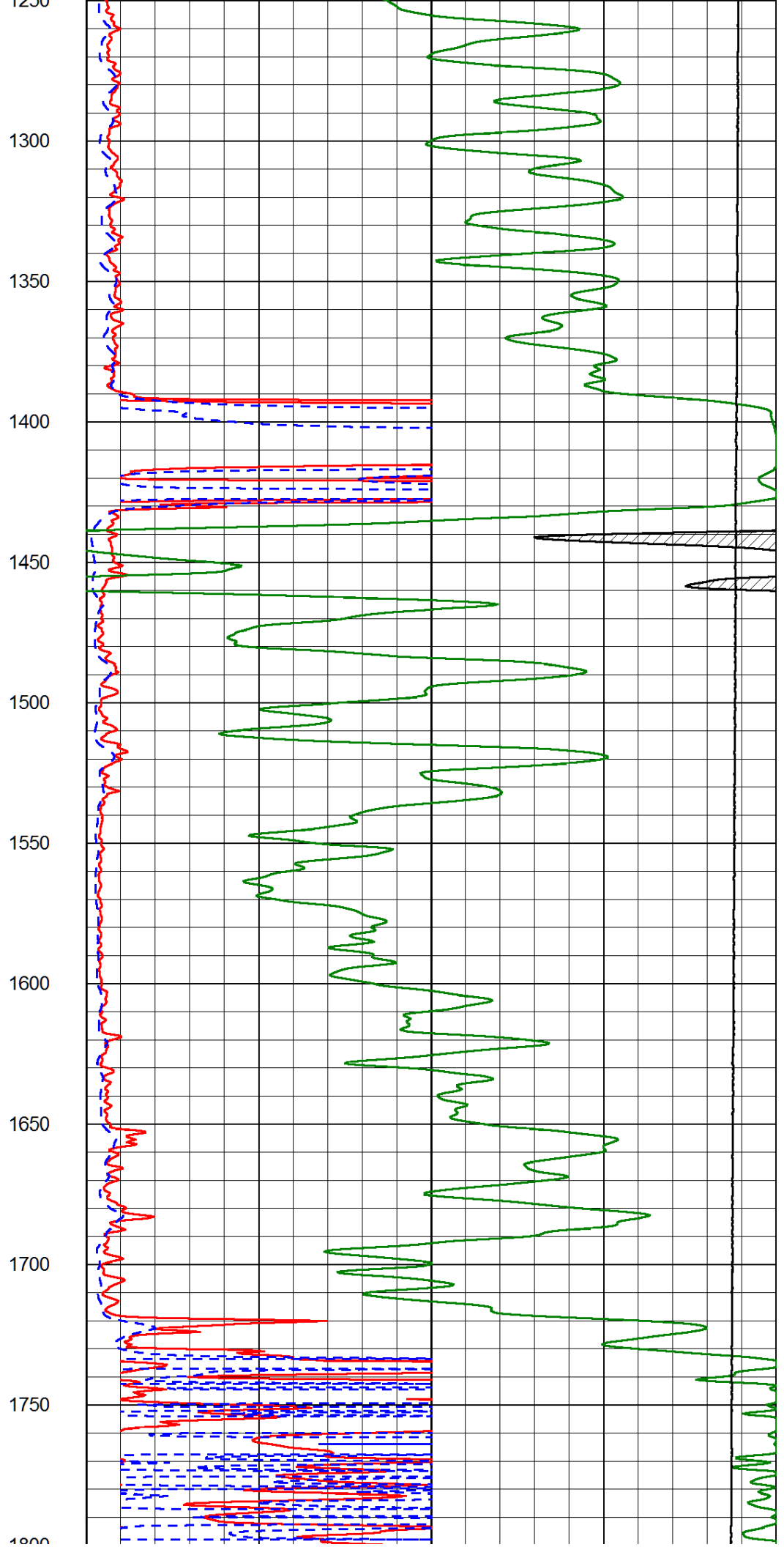
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0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

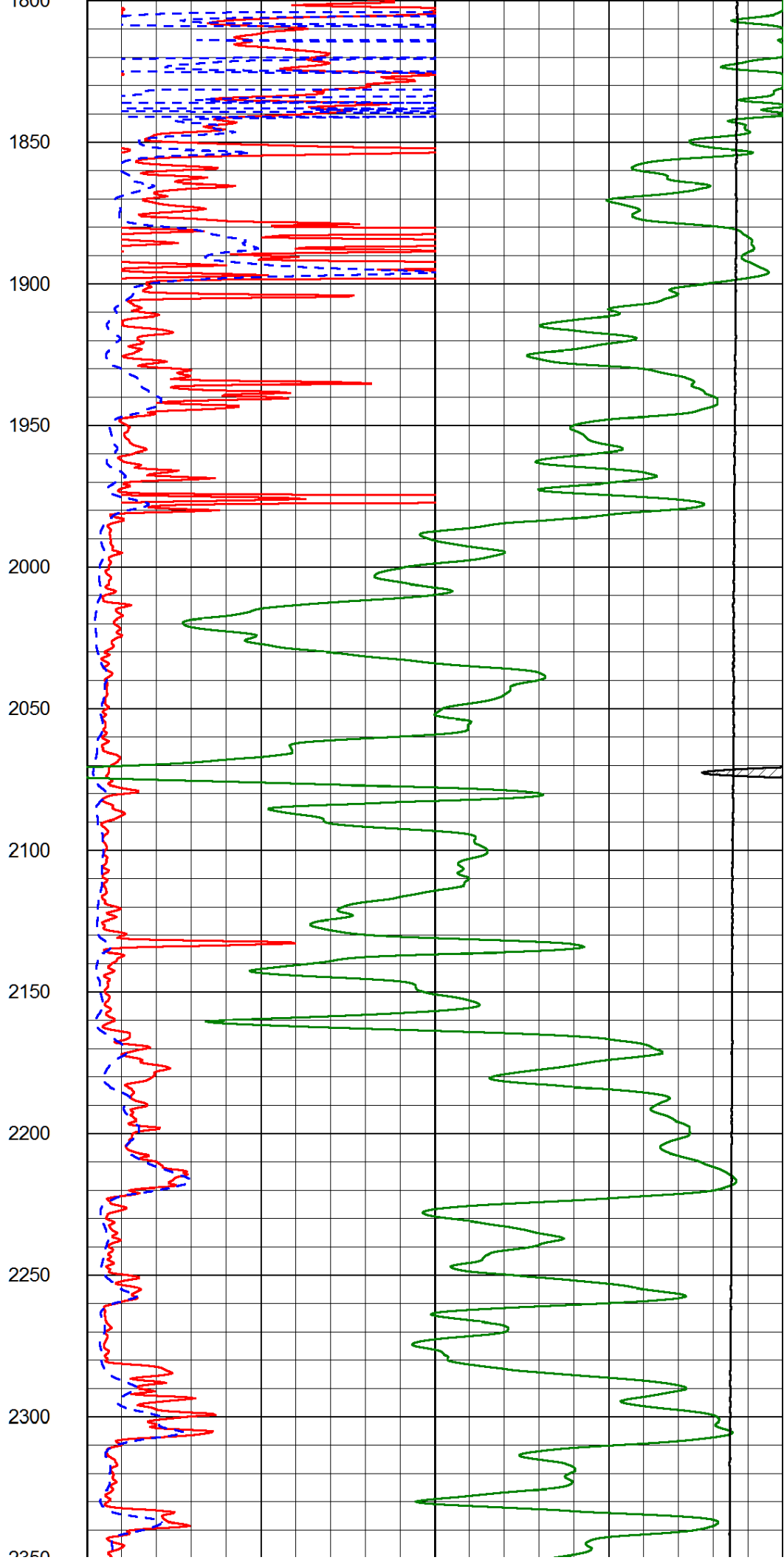
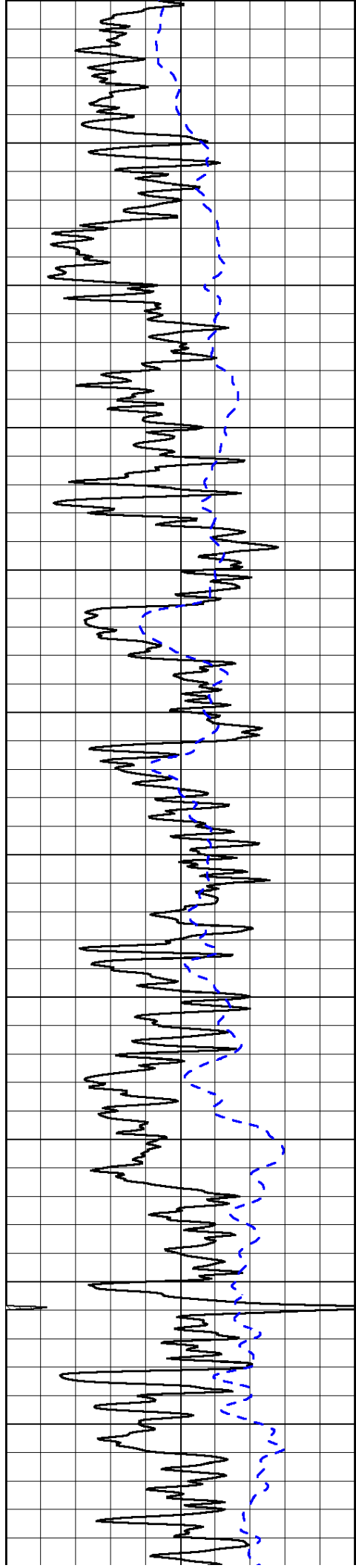
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50	Deep Resistivity (Ohm-m)	500

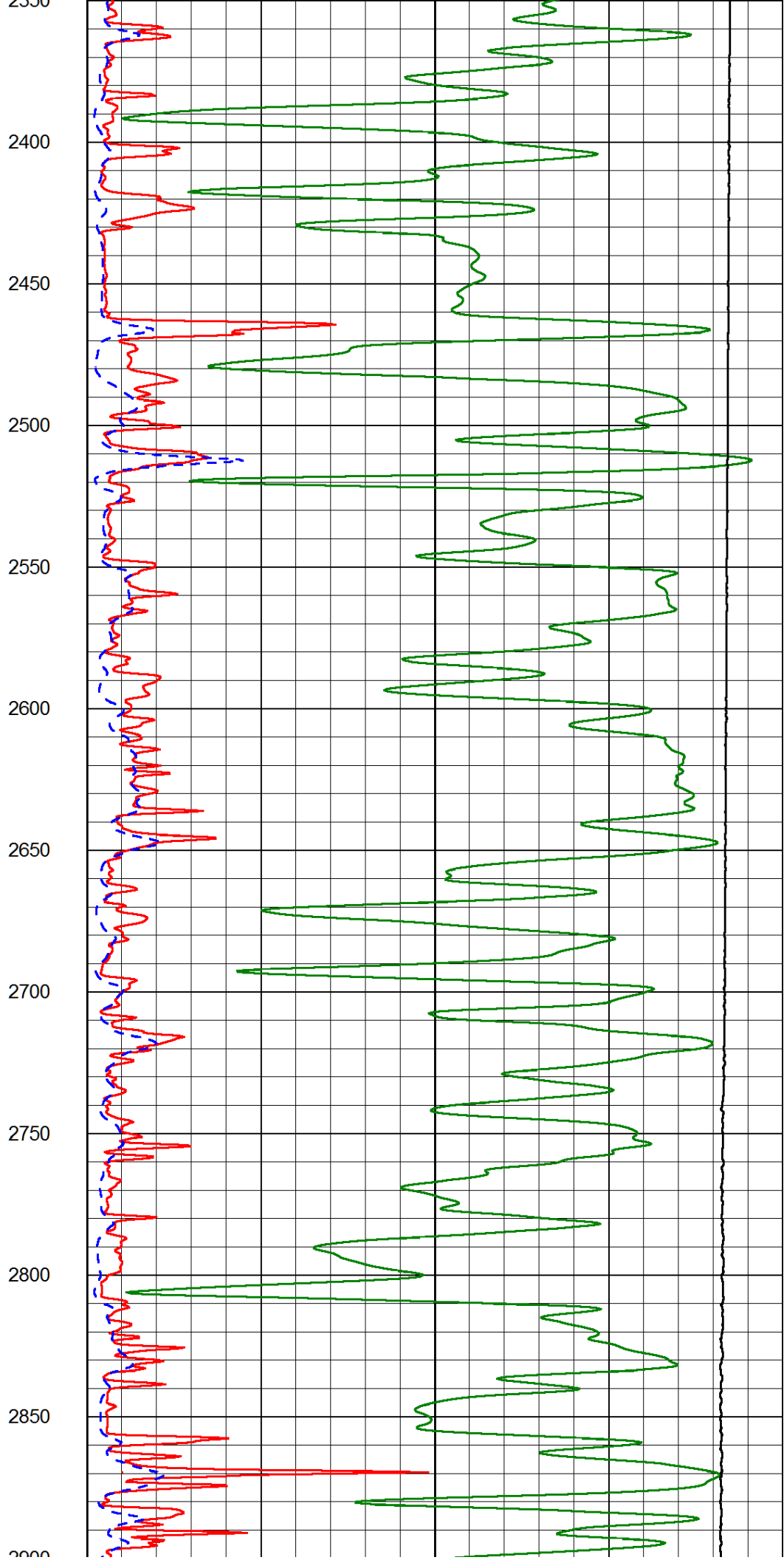
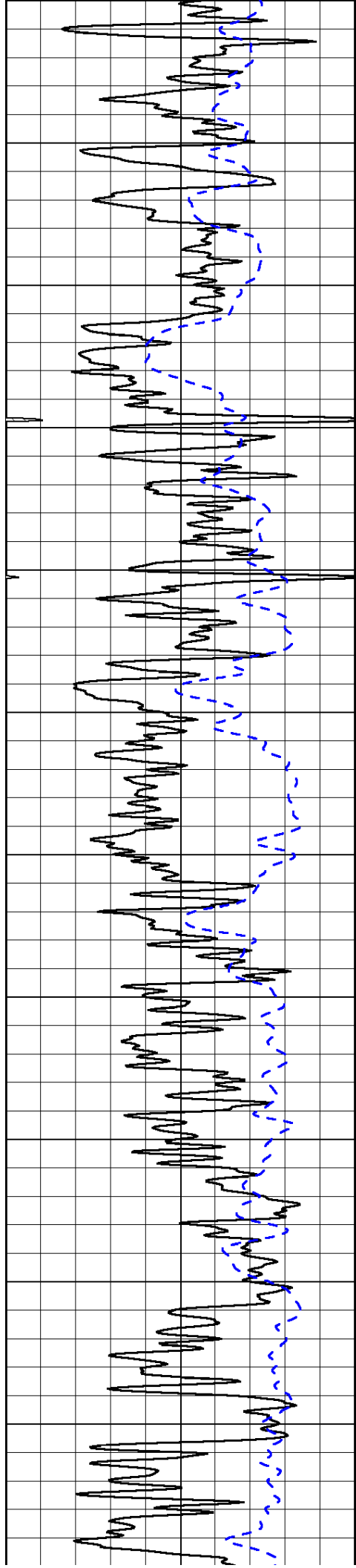


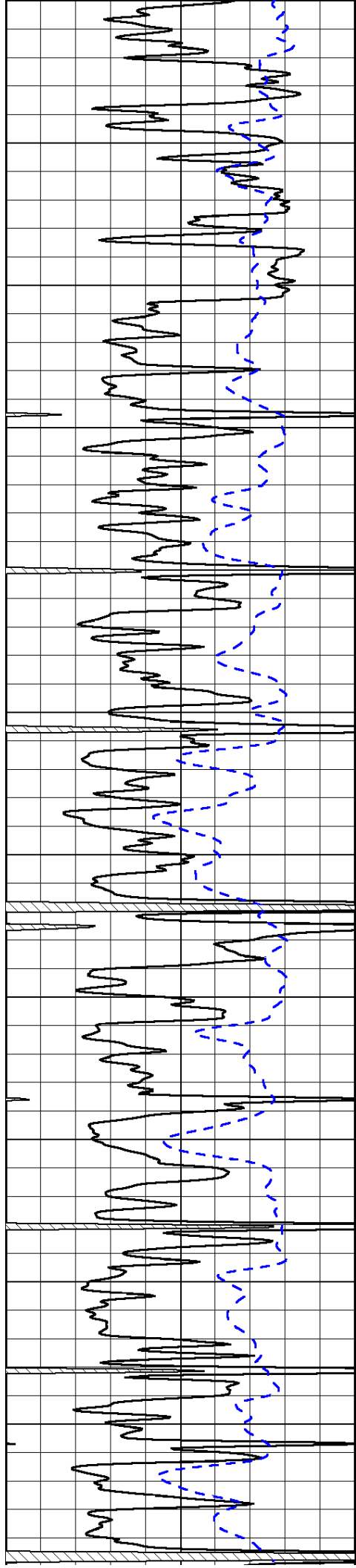
700
750
800
850
900
950
1000
1050
1100
1150
1200
1250



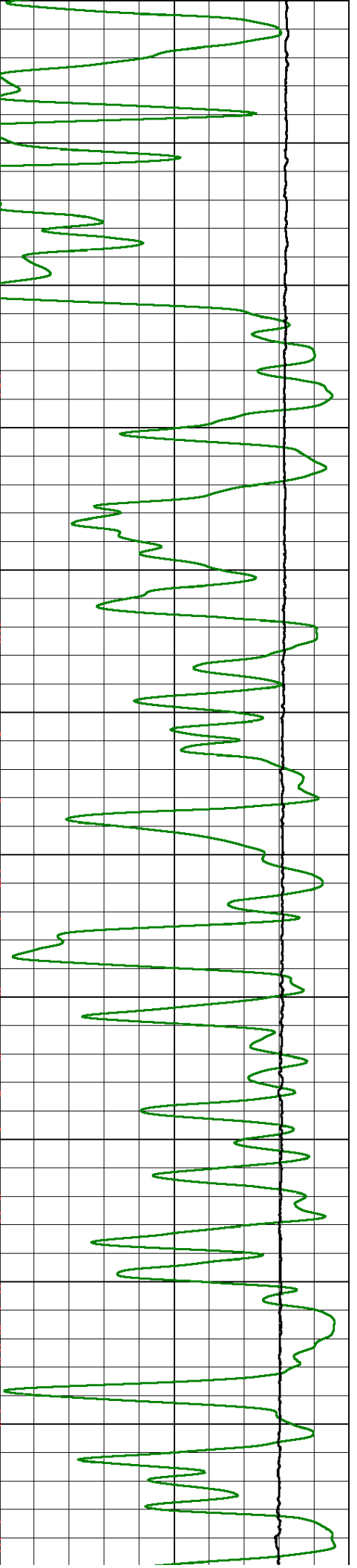
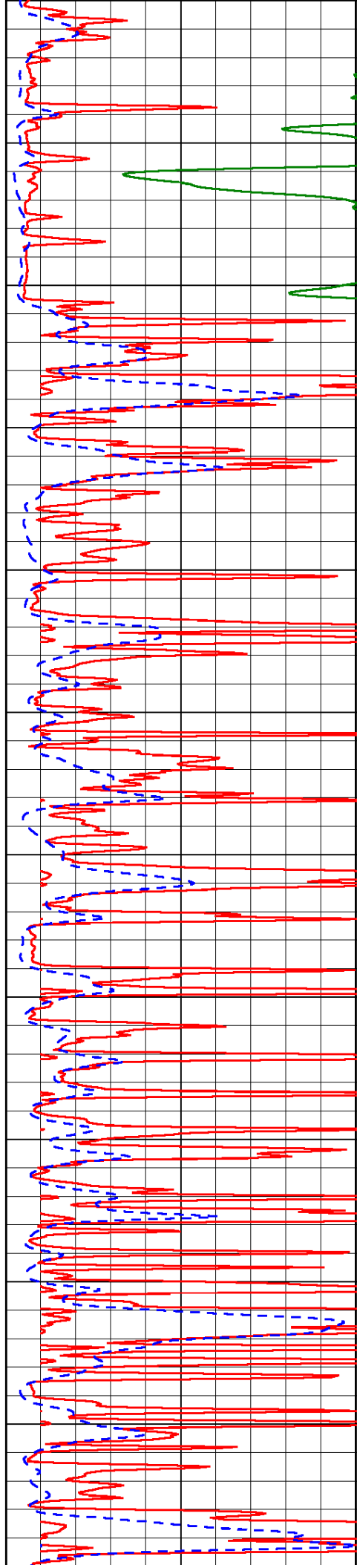


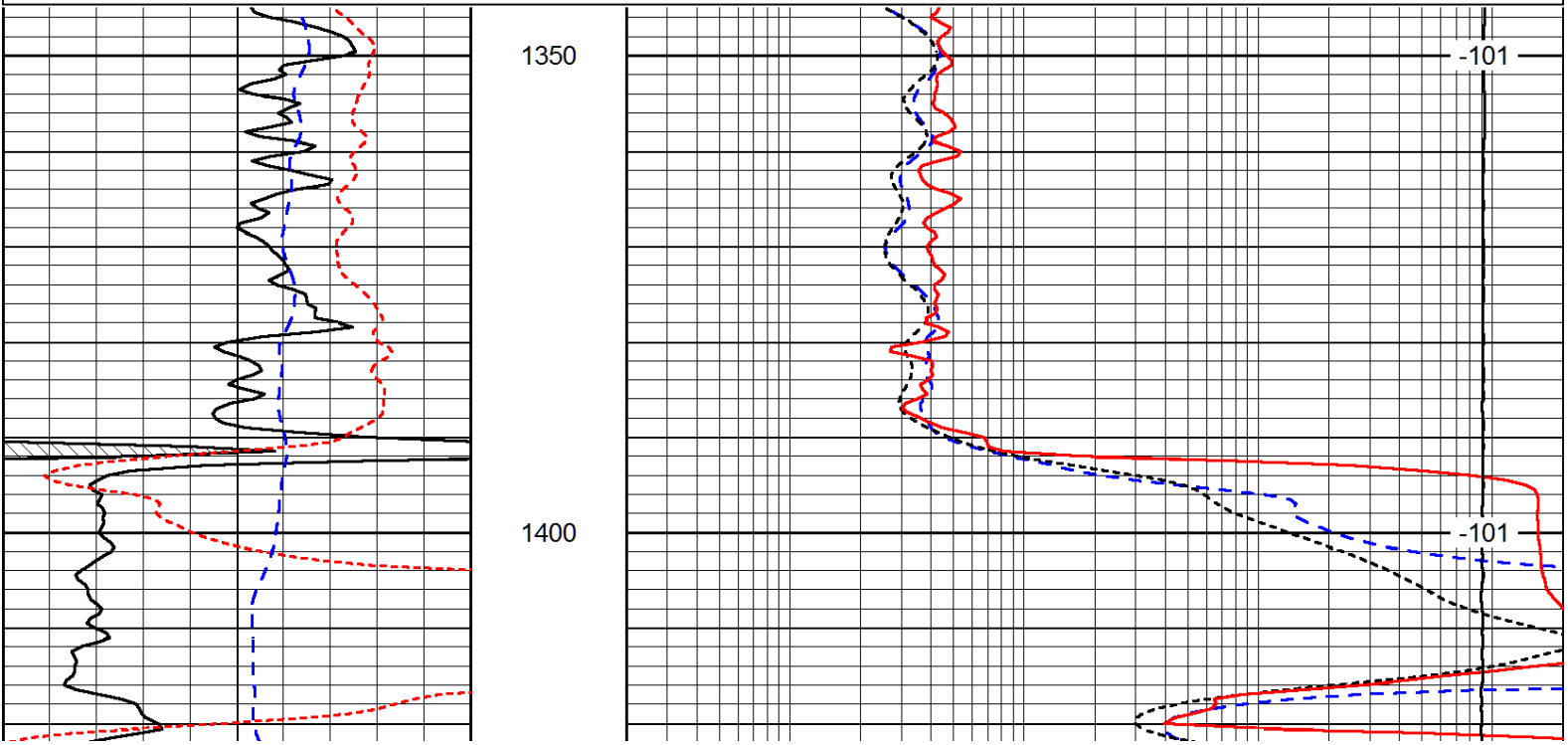
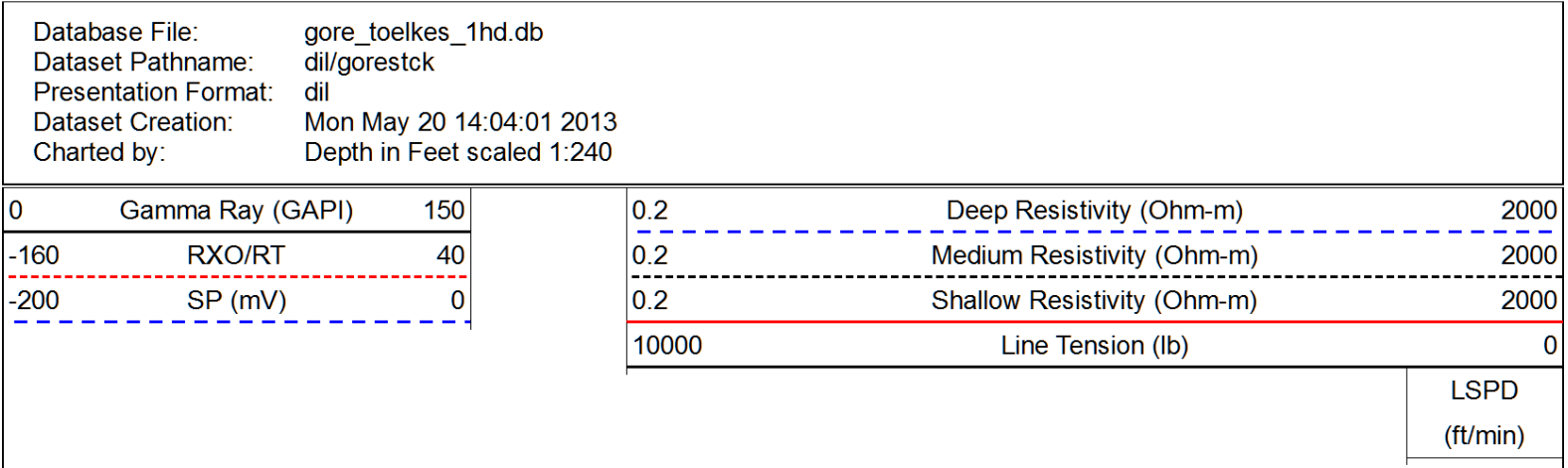
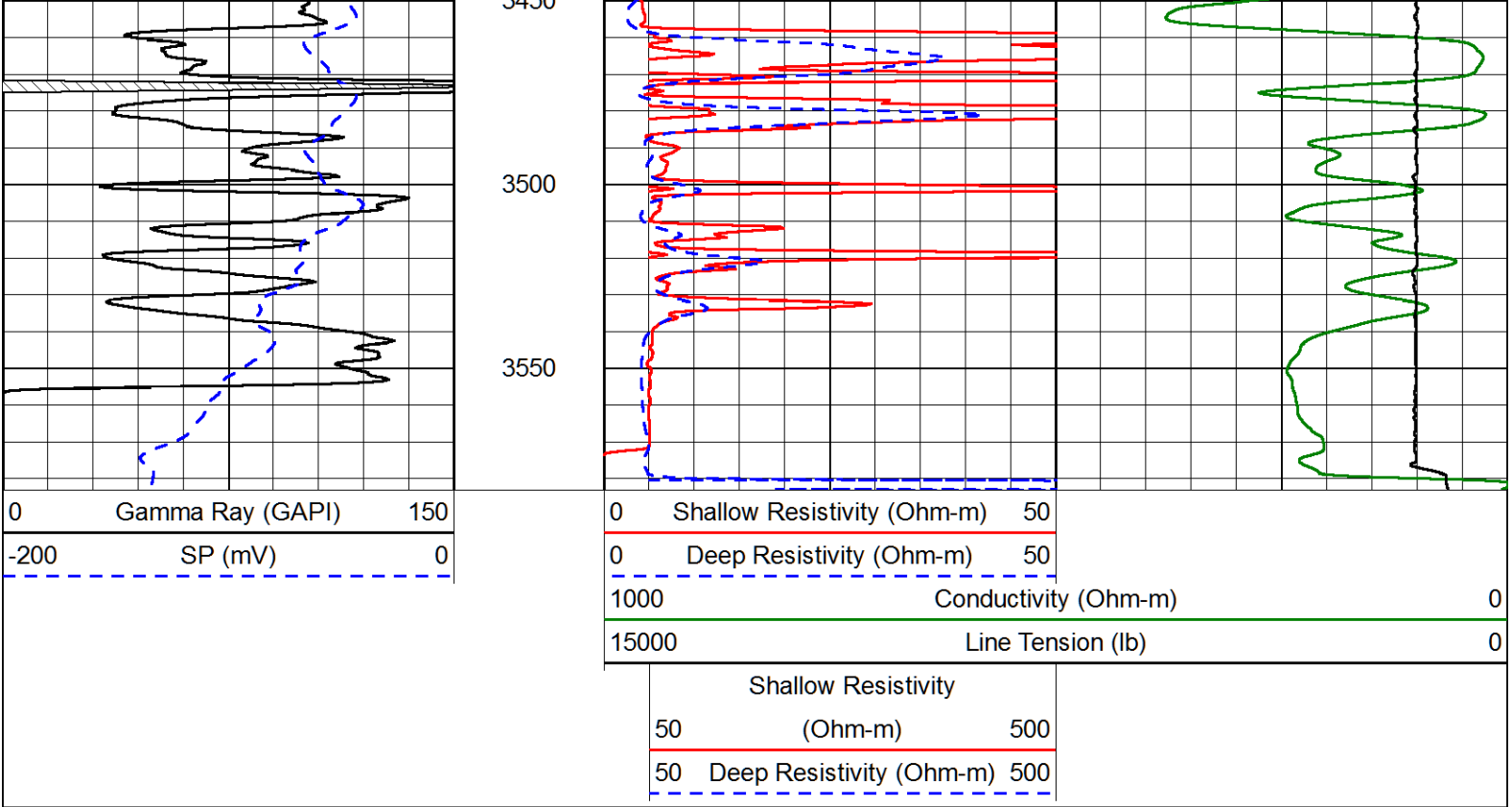


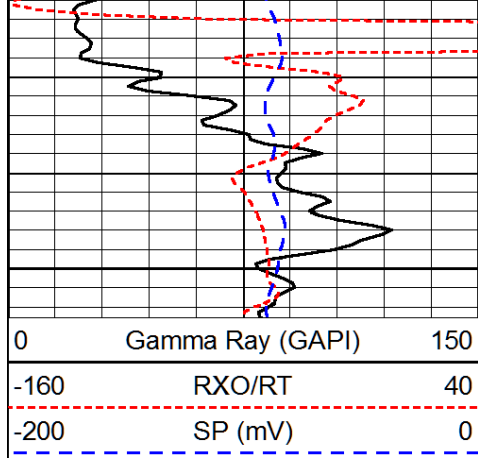




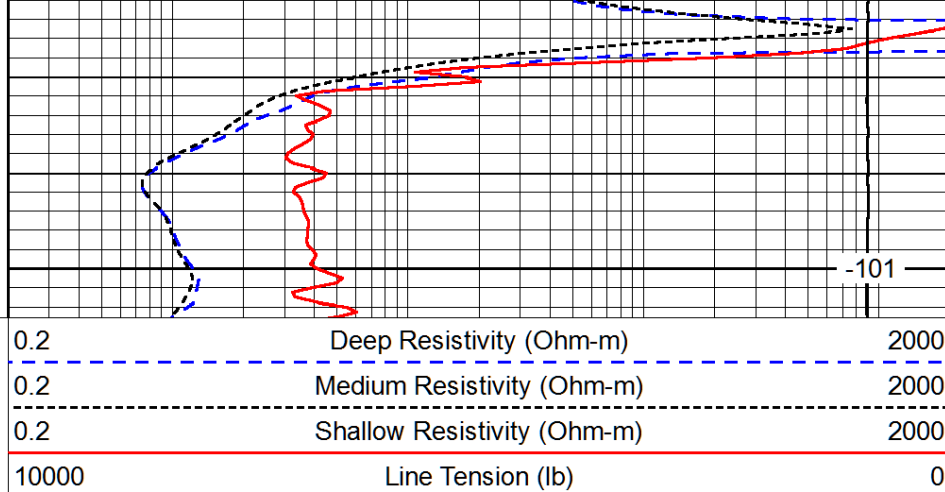
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450





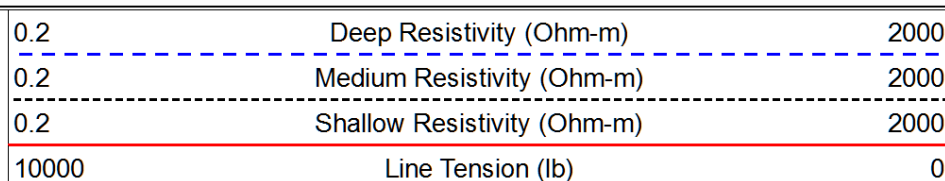
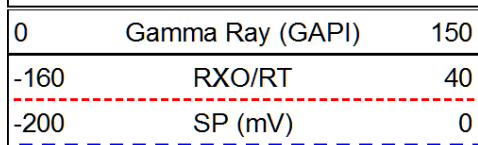


1450

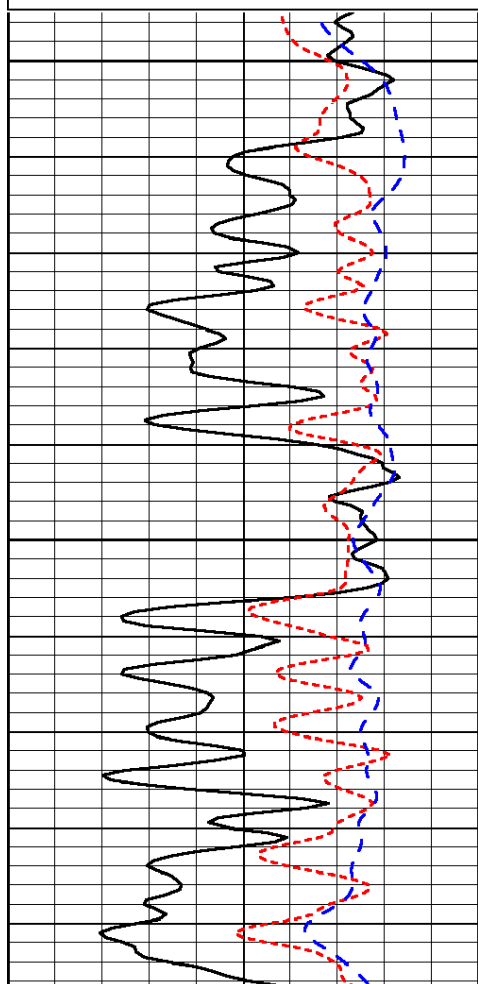


LSPD
(ft/min)

Database File: gore_toelkes_1hd.db
 Dataset Pathname: dil/gorestck
 Presentation Format: dil
 Dataset Creation: Mon May 20 14:04:01 2013
 Charted by: Depth in Feet scaled 1:240

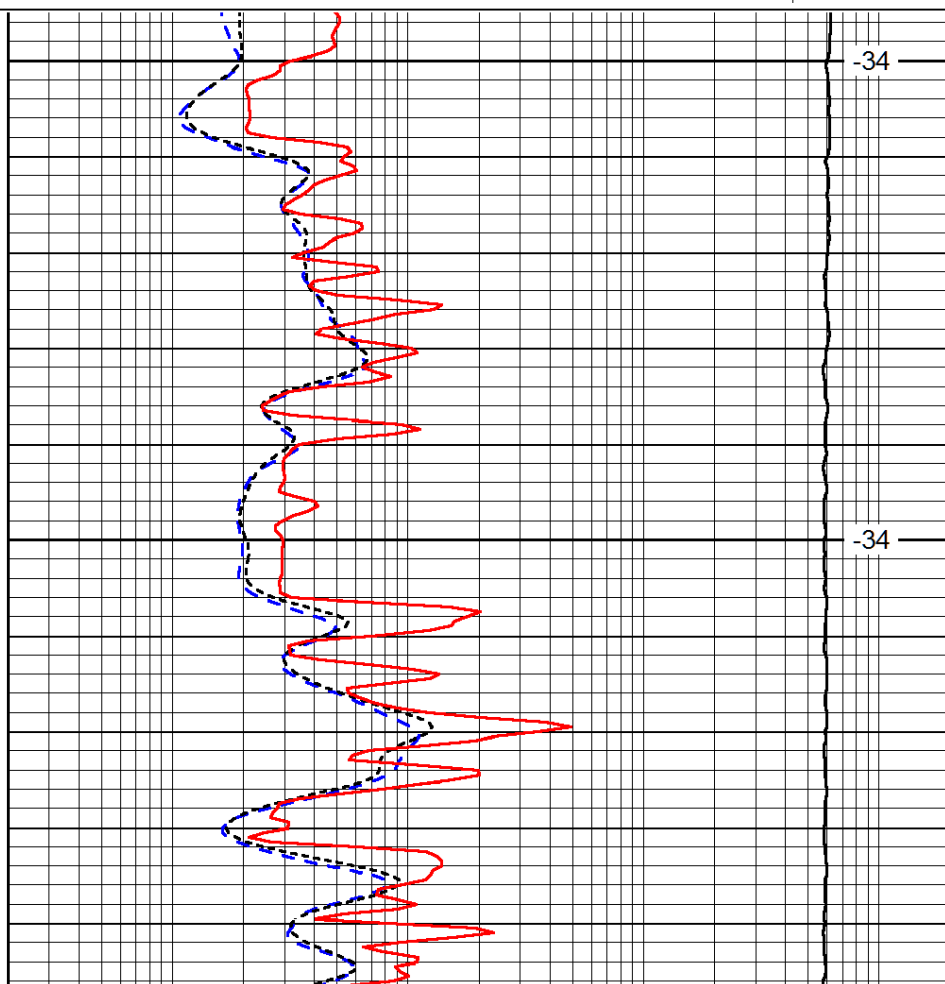


LSPD
(ft/min)



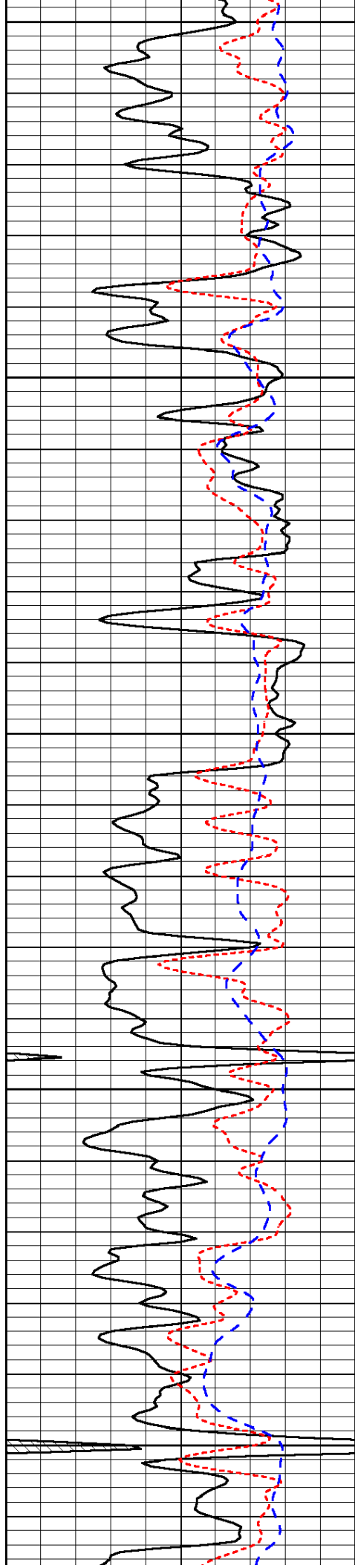
2800

2850



-34

-34



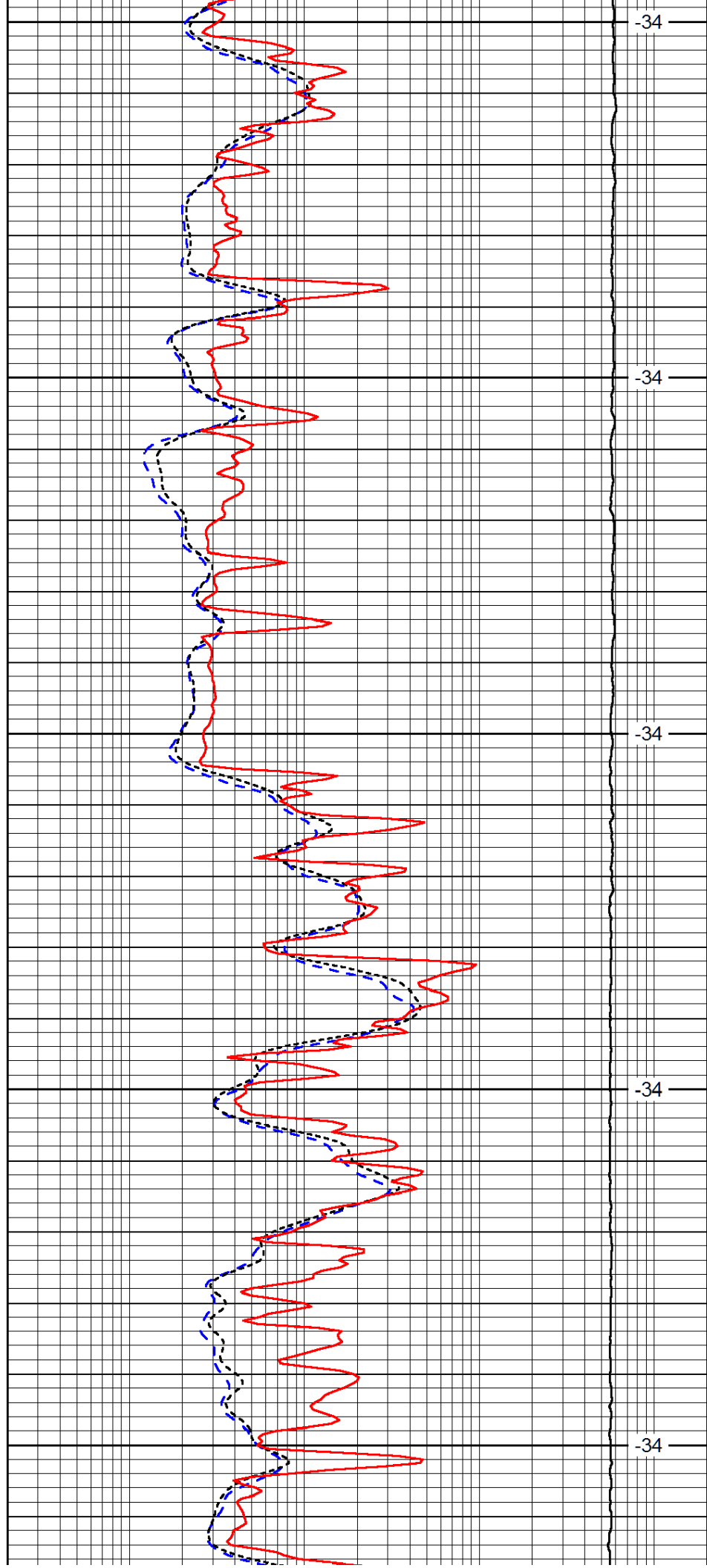
2900

2950

3000

3050

3100



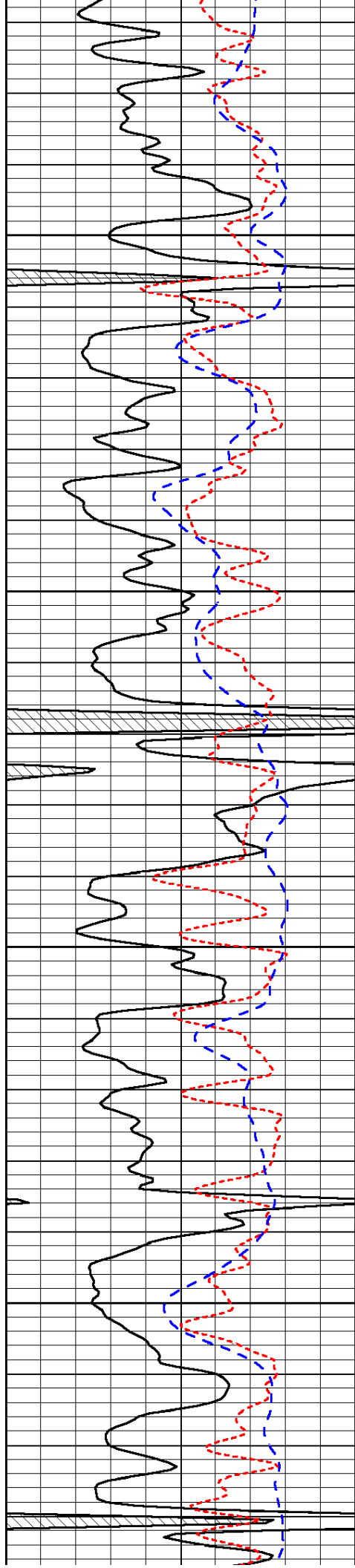
-34

-34

-34

-34

-34

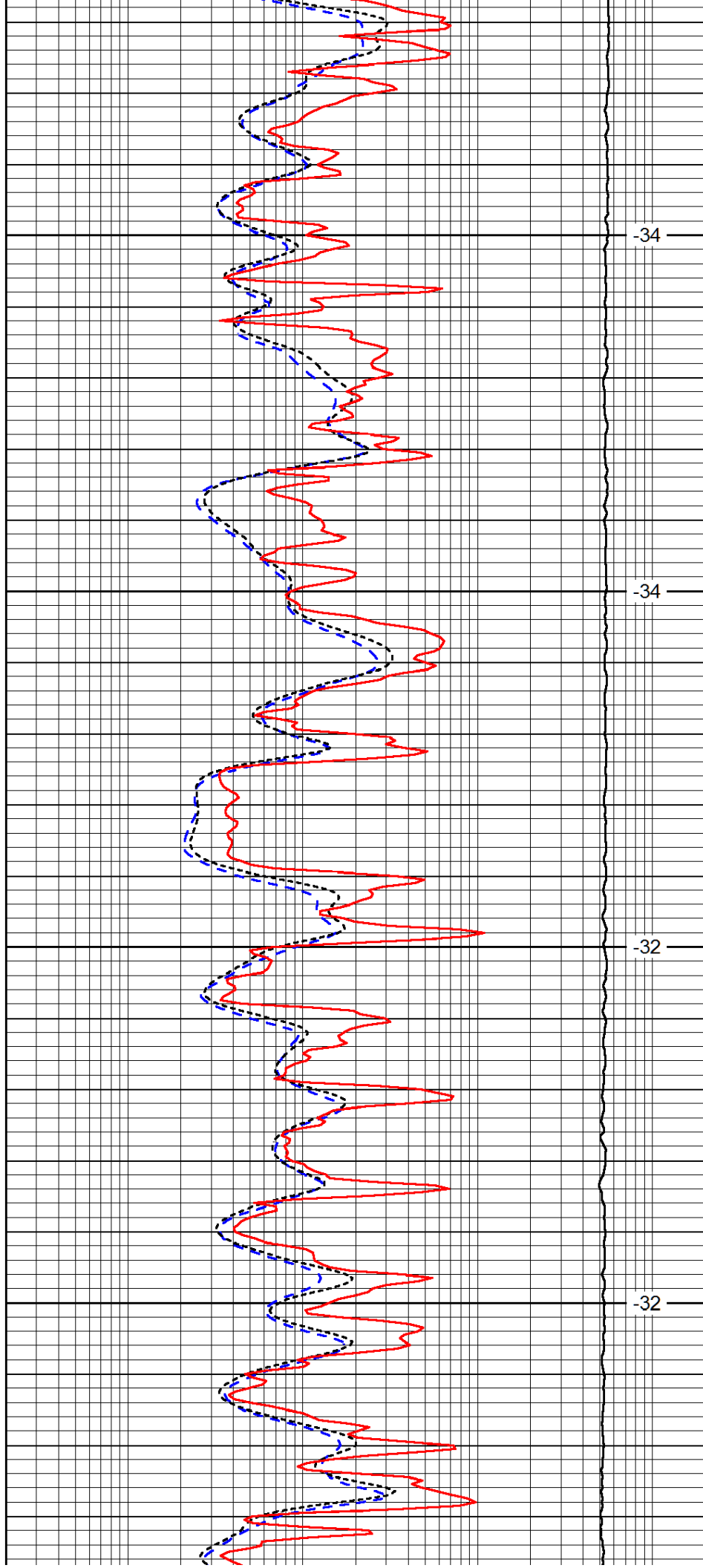


3150

3200

3250

3300

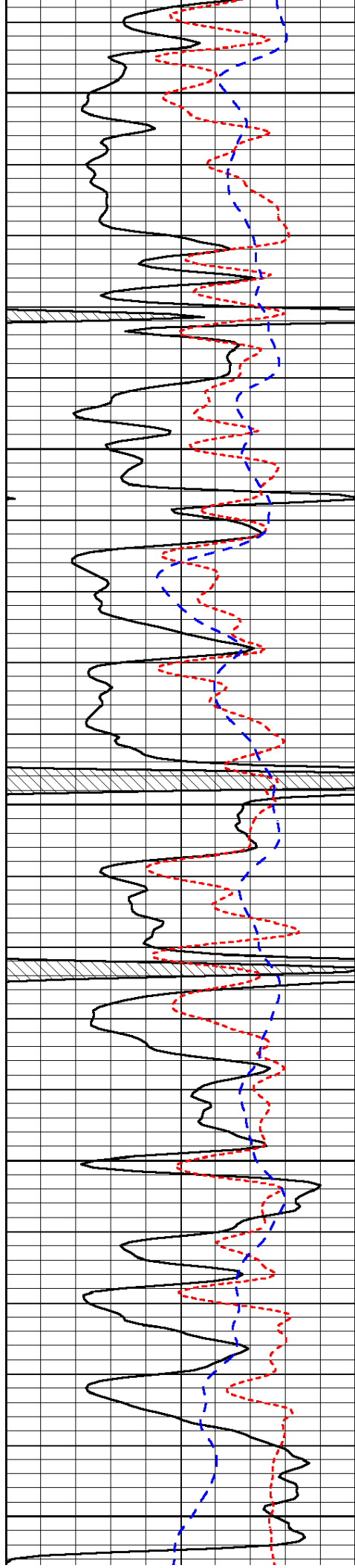


-34

-34

-32

-32



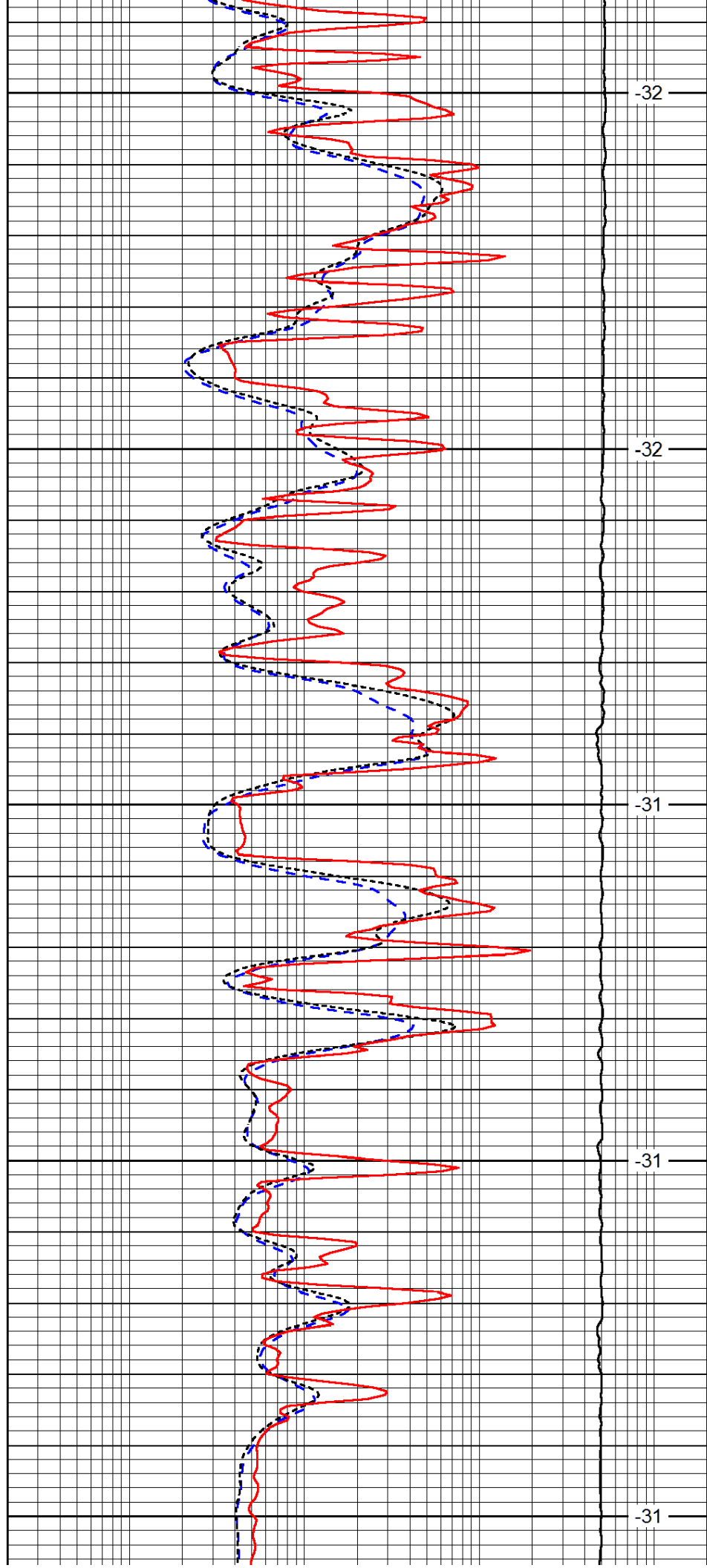
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3400

3450

3500

3550



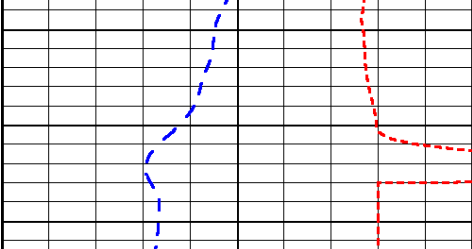
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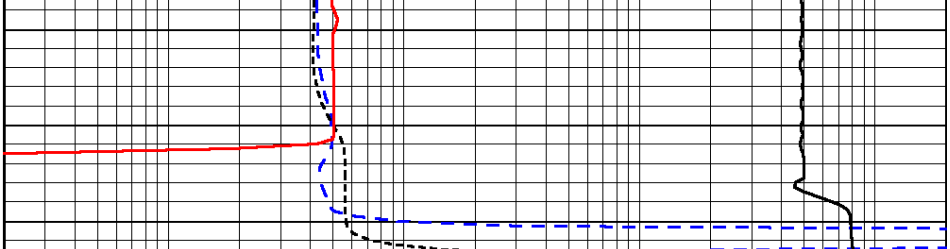
-31

-31

-31



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



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)