



Pioneer Energy Services

Dual Induction Log

API No.

15-007-24,039-00-00

Company N-10 Exploration, LLC

Well Medicine River Ranch 'B' No. 12

Field Landis

County Barber

State

Kansas

Location

W/2 SE SE
660' FSL & 990' FEL

Other Services
CNL/CDL

Sec: 15

Twp: 34S

Rge: 11W

Elevation
K.B. 1355
D.F. 1345
G.L. 1345

Permanent Datum

Ground Level
Kelly Bushing

Elevation 1345
10 Ft. Above Perm. Datum

Log Measured From

Kelly Bushing

Elevation 1345
D.F. 1345
G.L. 1345

Drilling Measured From

Kelly Bushing

Elevation 1345
D.F. 1345
G.L. 1345

Date

7/18/2013

Run Number

One

Depth Driller

4982

Depth Logger

4976

Bottom Logged Interval

4975

Top Log Interval

250

Casing Driller

8.625 @ 266

Casing Logger

264

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3,000

Density / Viscosity

9.4 52
9.5 9.8

pH / Fluid Loss

9.5 9.8

Source of Sample

Flowline

Rm @ Meas. Temp

.54 @ 80

Rmf @ Meas. Temp

.41 @ 80

Rmc @ Meas. Temp

.73 @ 80

Source of Rmf / Rmc

Charts

Rm @ BHT

.34 @ 126

Operating Rig Time

3 Hours

Max Rec. Temp. F

126

Equipment Number

15

Location

Hays

Recorded By

J. Henrickson

D. Kerr

Witnessed By

Tim Pierce

<<< Fold Here >>>

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

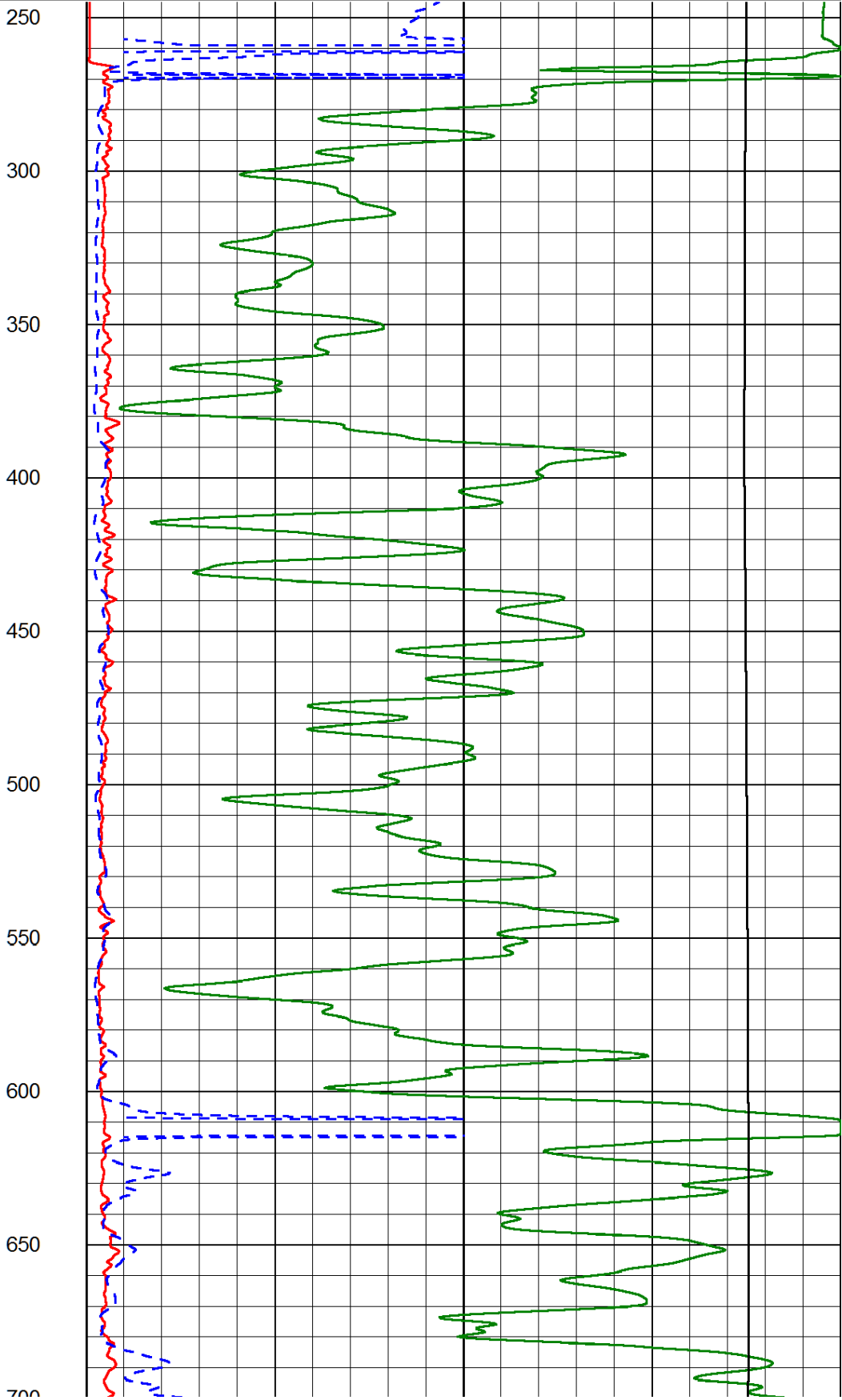
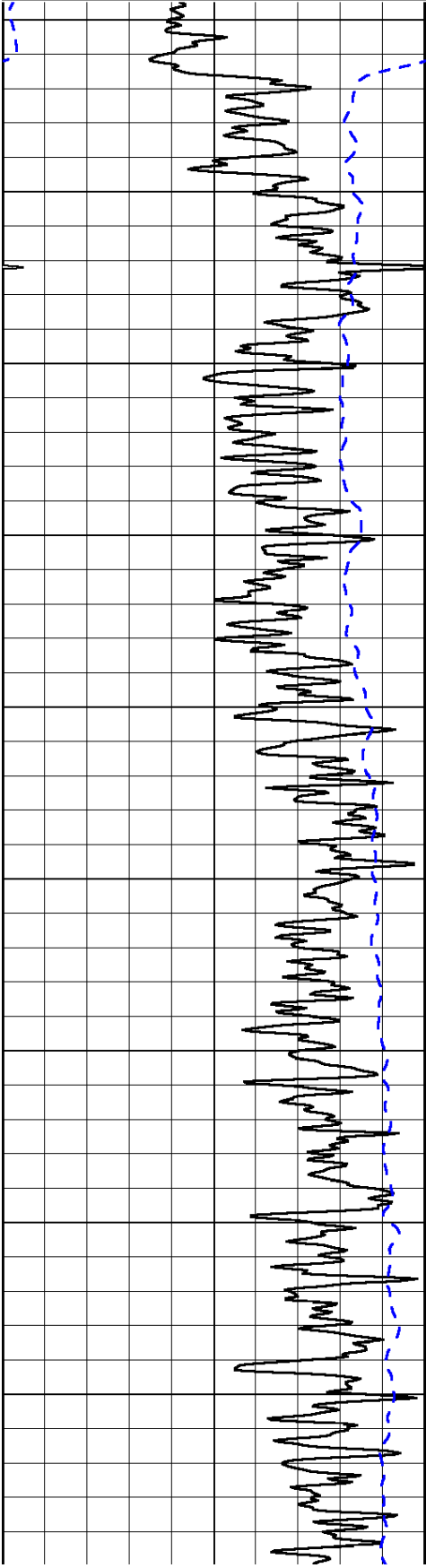
Thank you for using Log-Tech, Inc.
(785) 625-3858

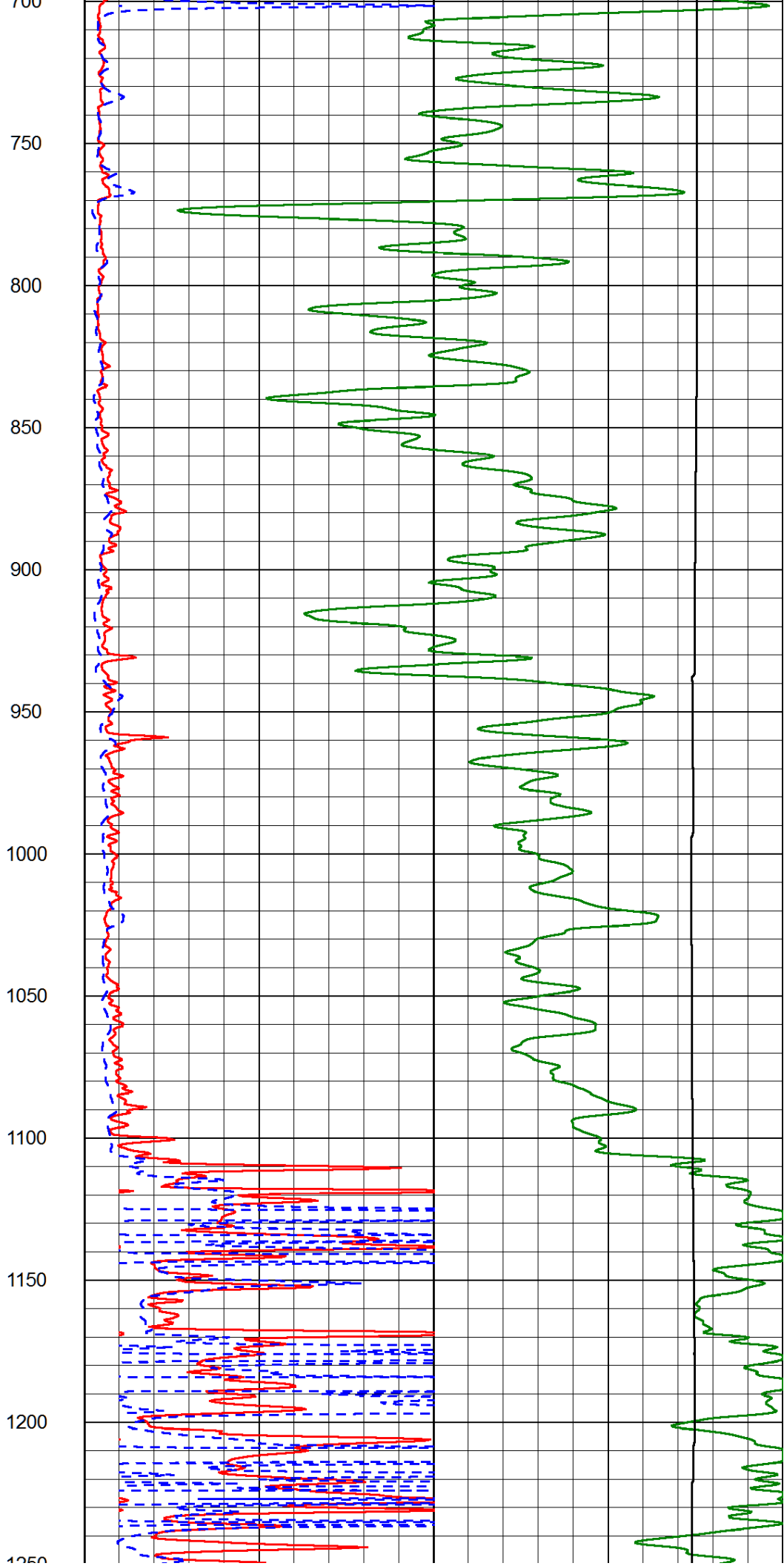
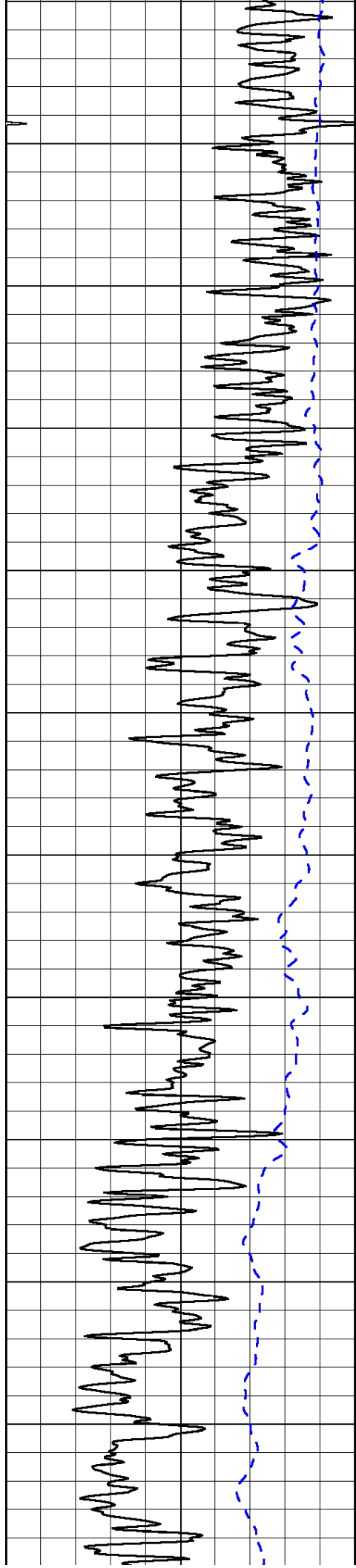
Medicine Lodge Kansas
13 S to Scott Canyon Rd, 3 E, across Cattle Guard, 1/2 S,S & E across river
1/4 E, 1/4 S, 1/4 E, S Into

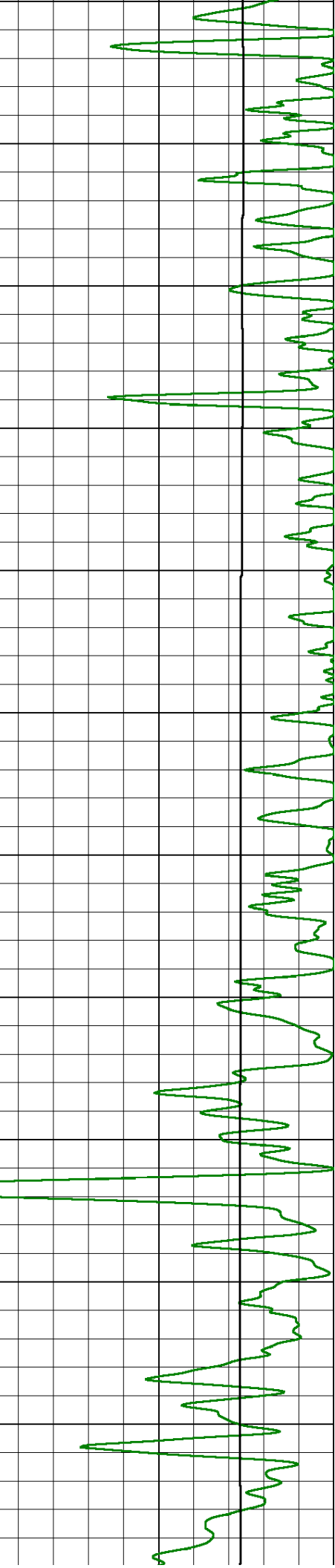
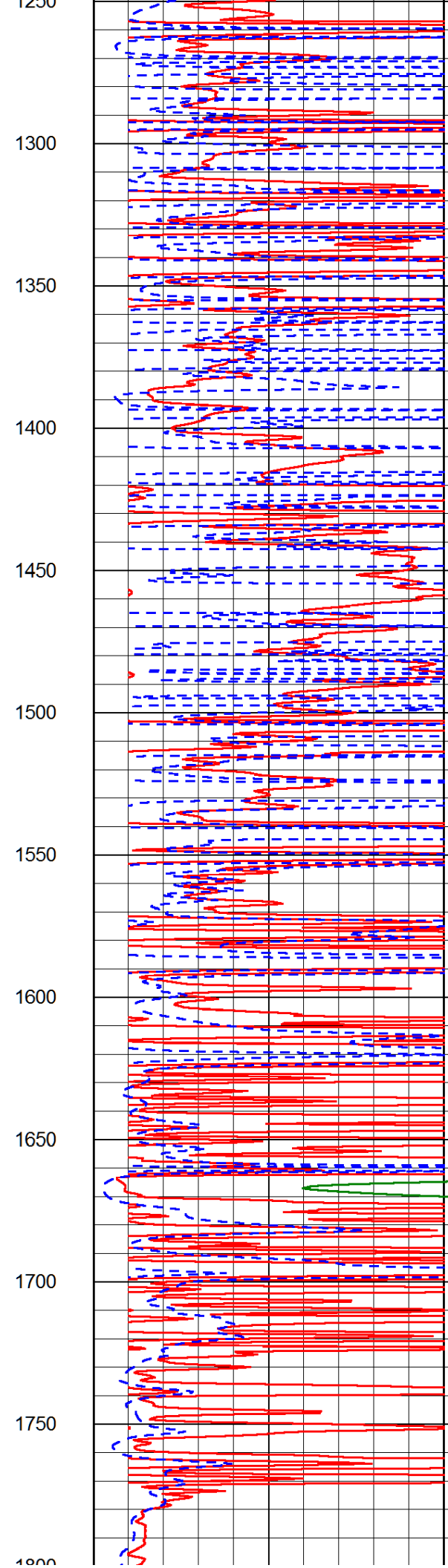
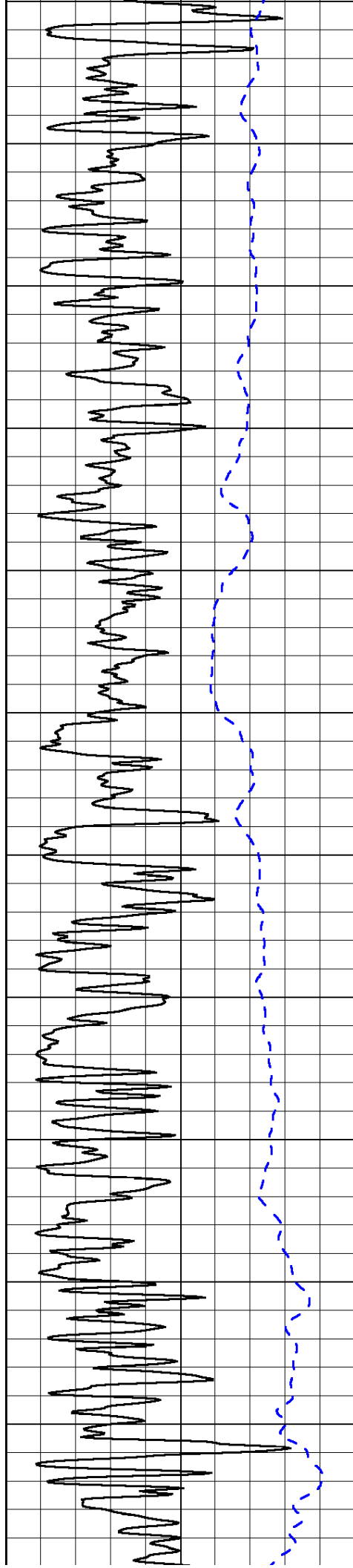
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Presentation Format: dil2in
Dataset Creation: Thu Jul 18 13:36:11 2013
Charted by: Depth in Feet scaled 1:600

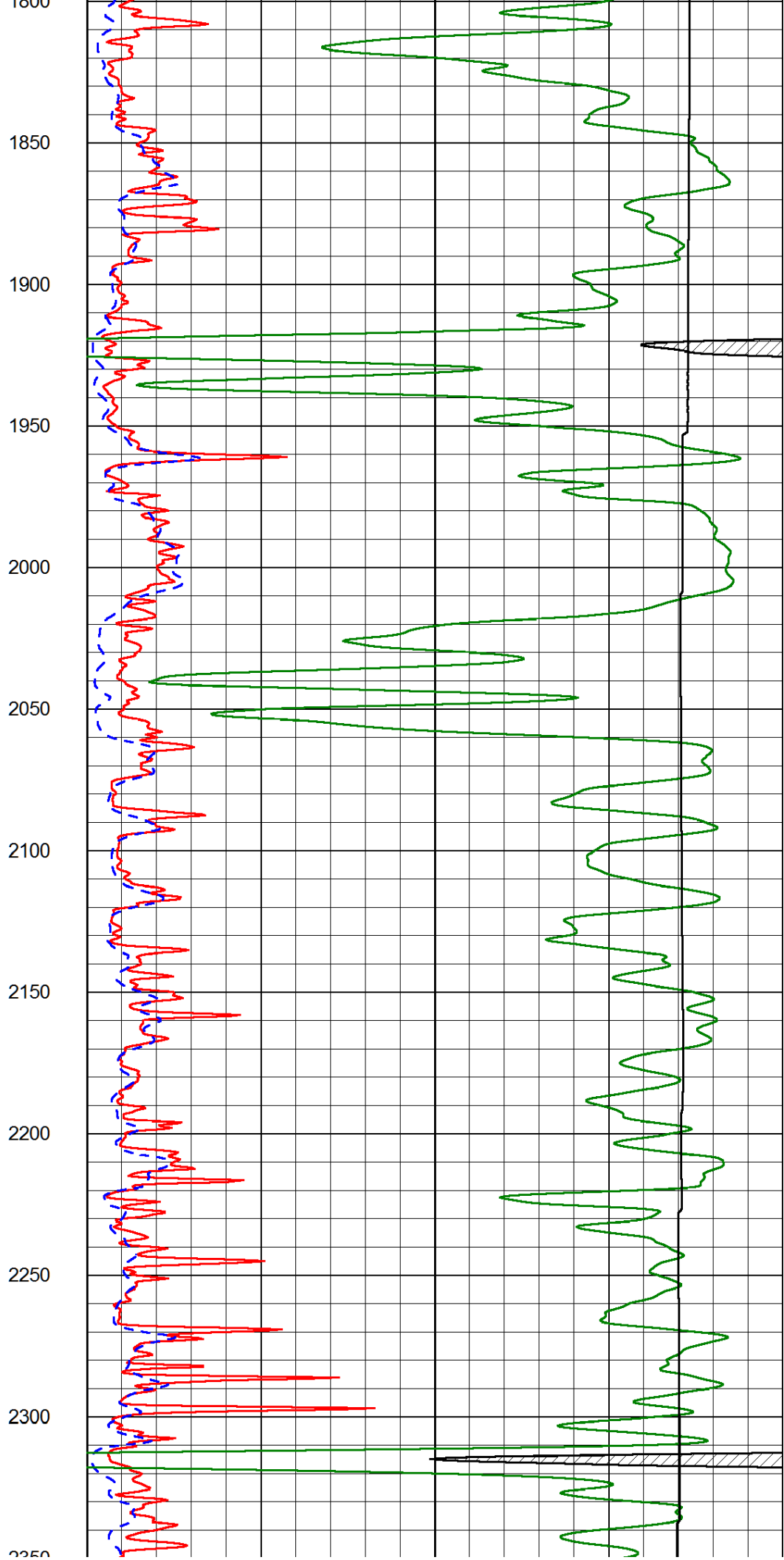
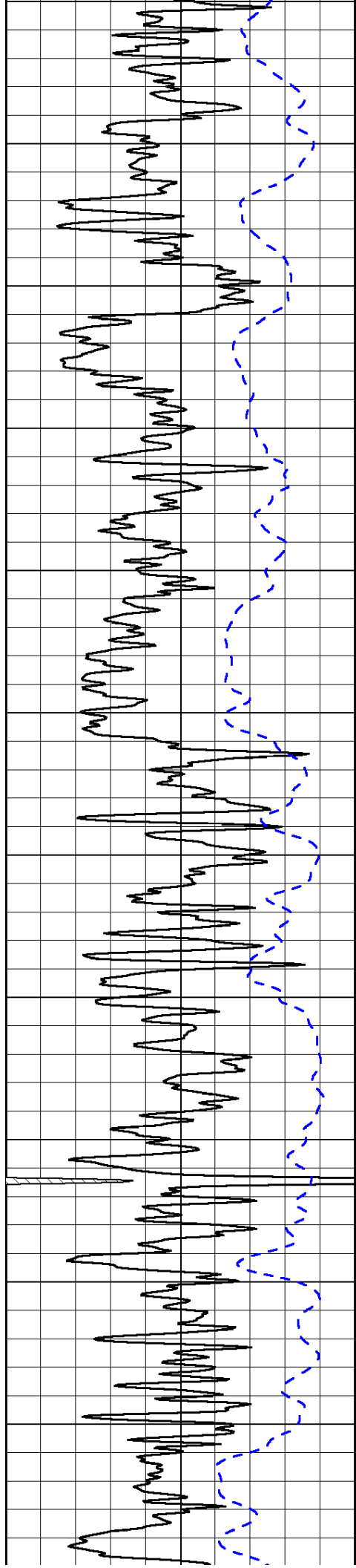
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-200	SP (mV)	0

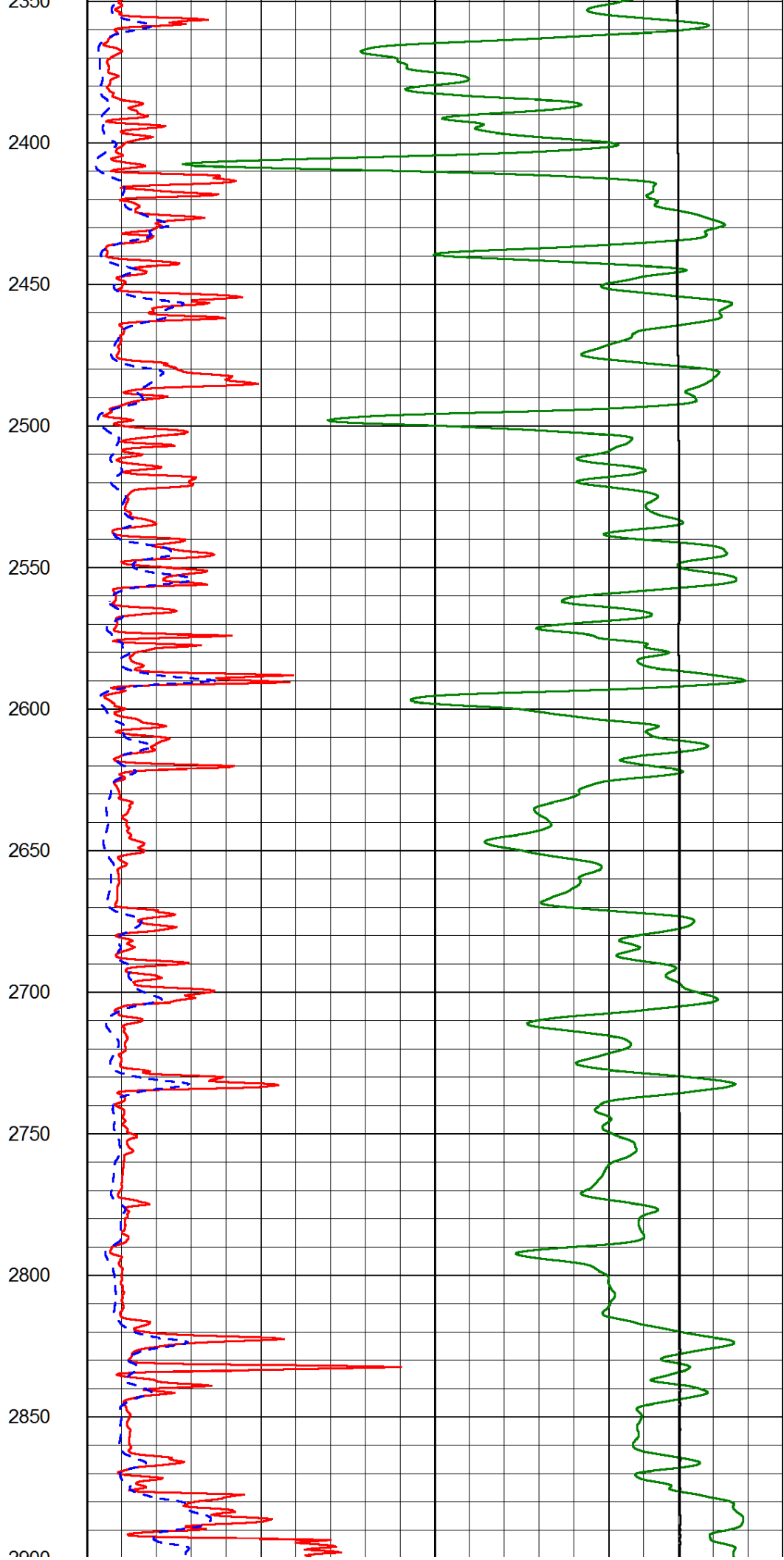
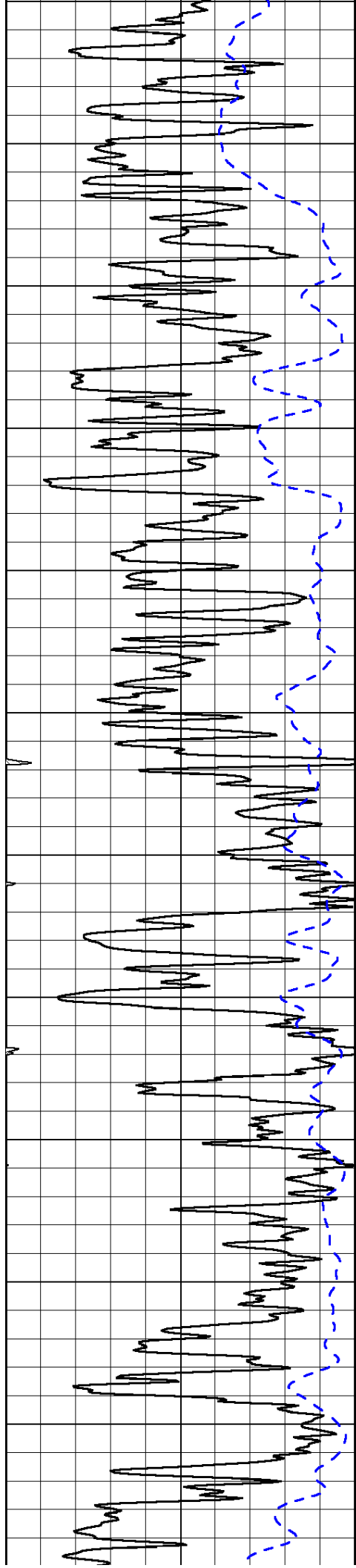
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

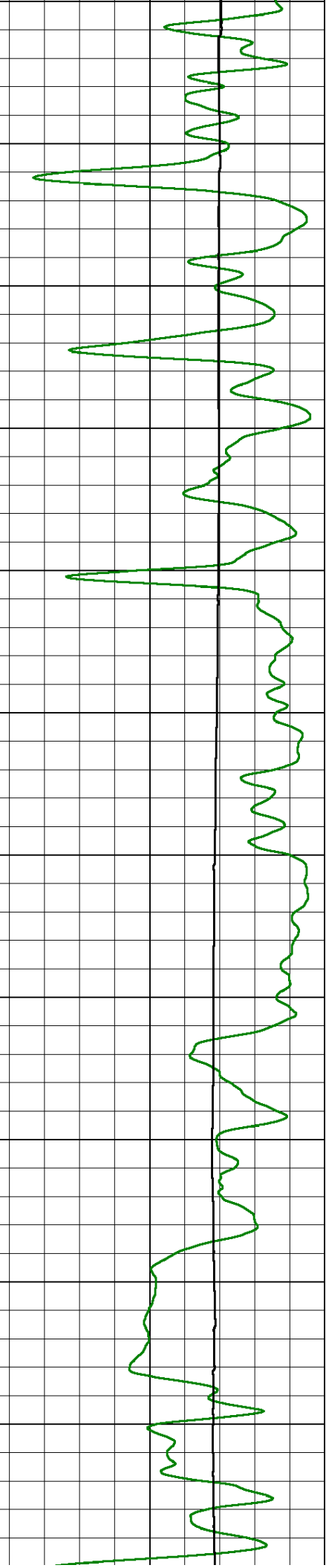
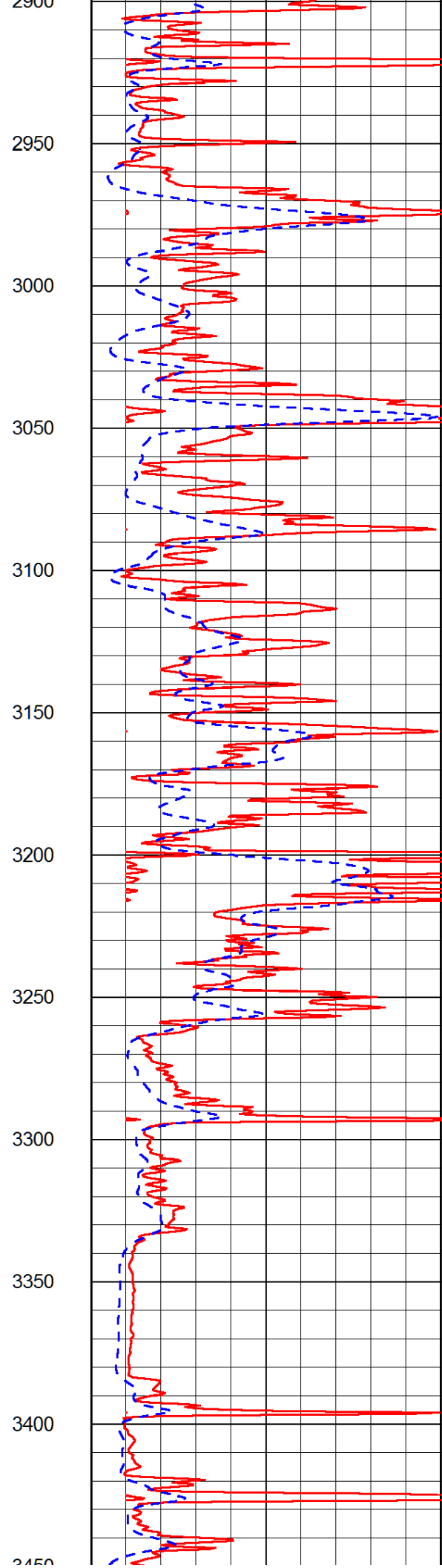
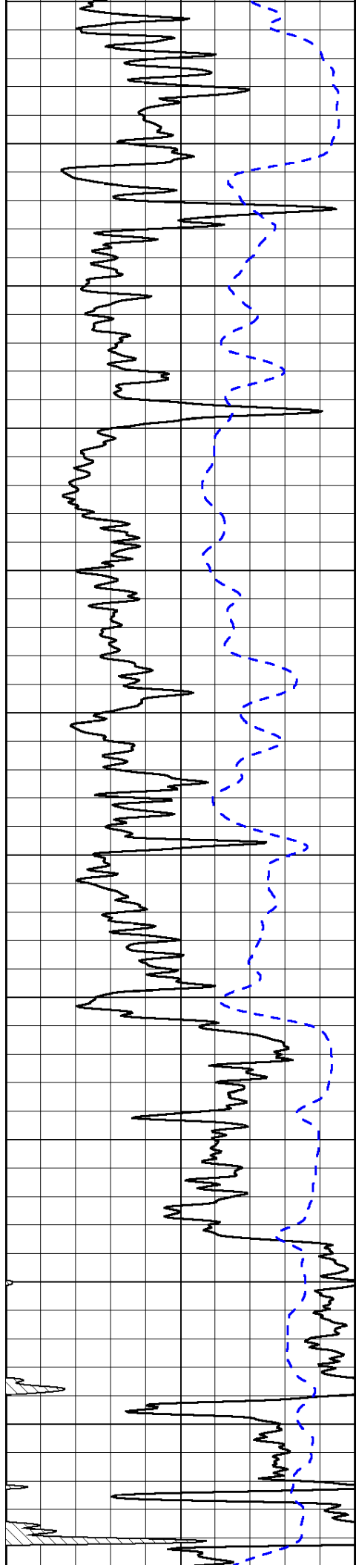


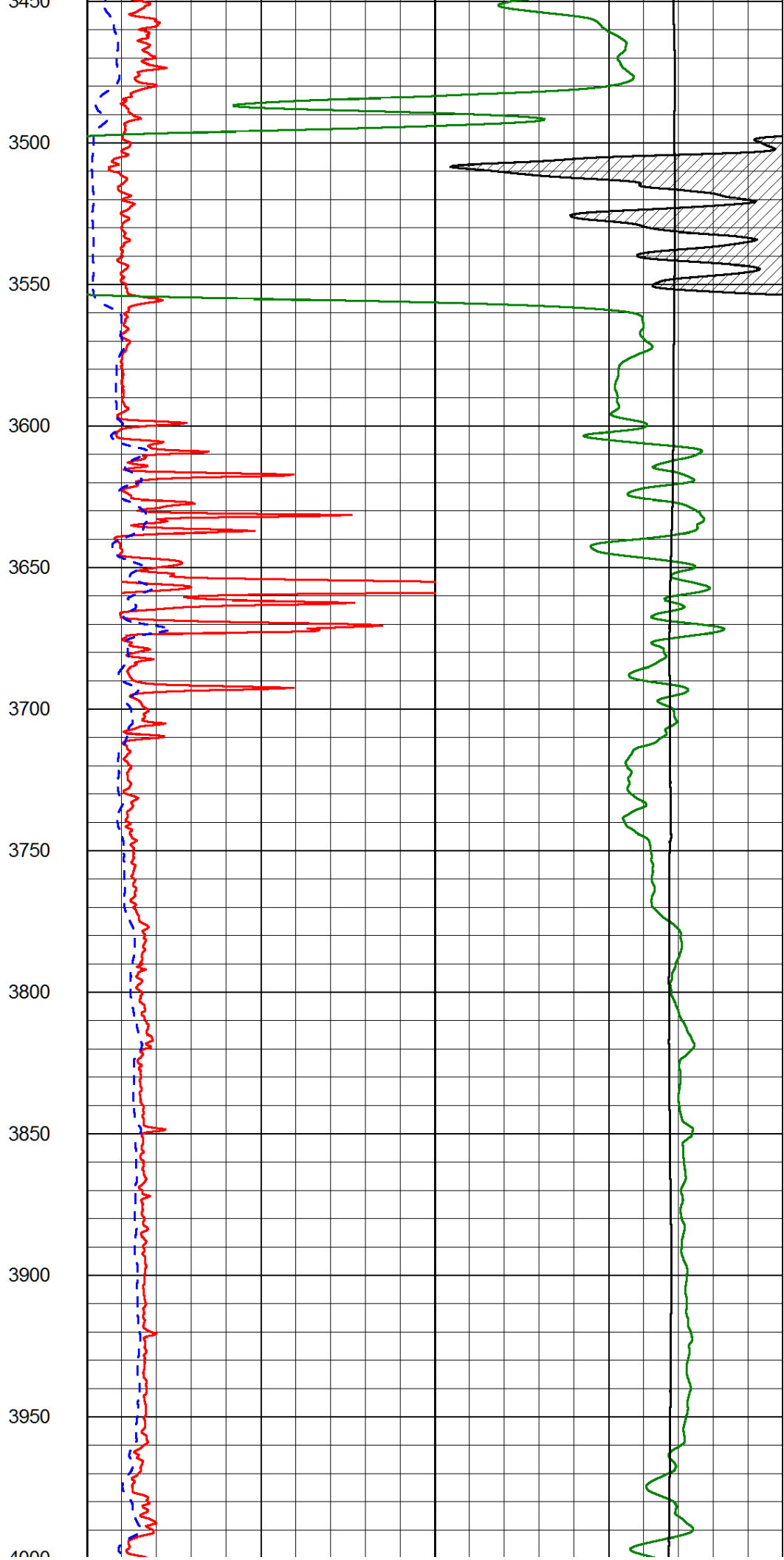
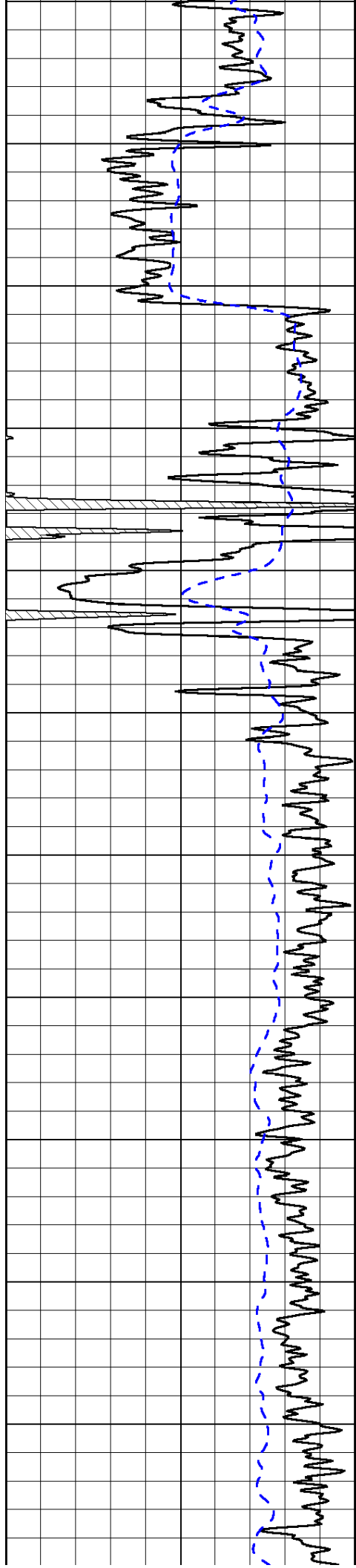


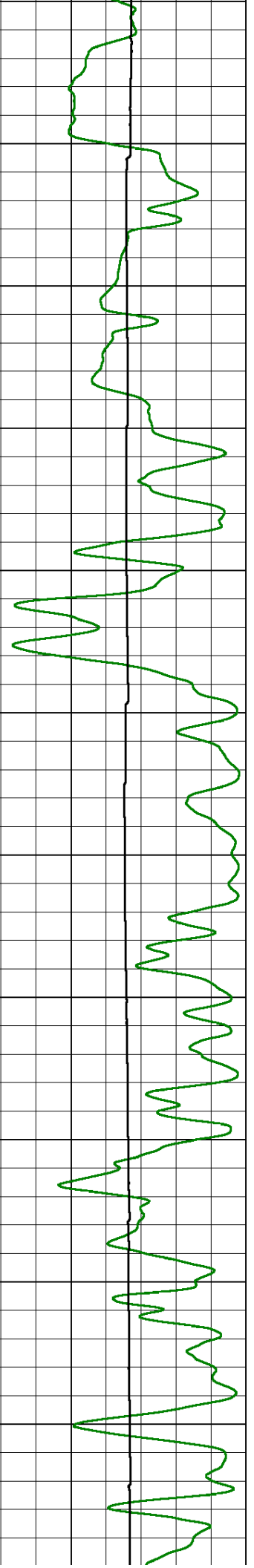
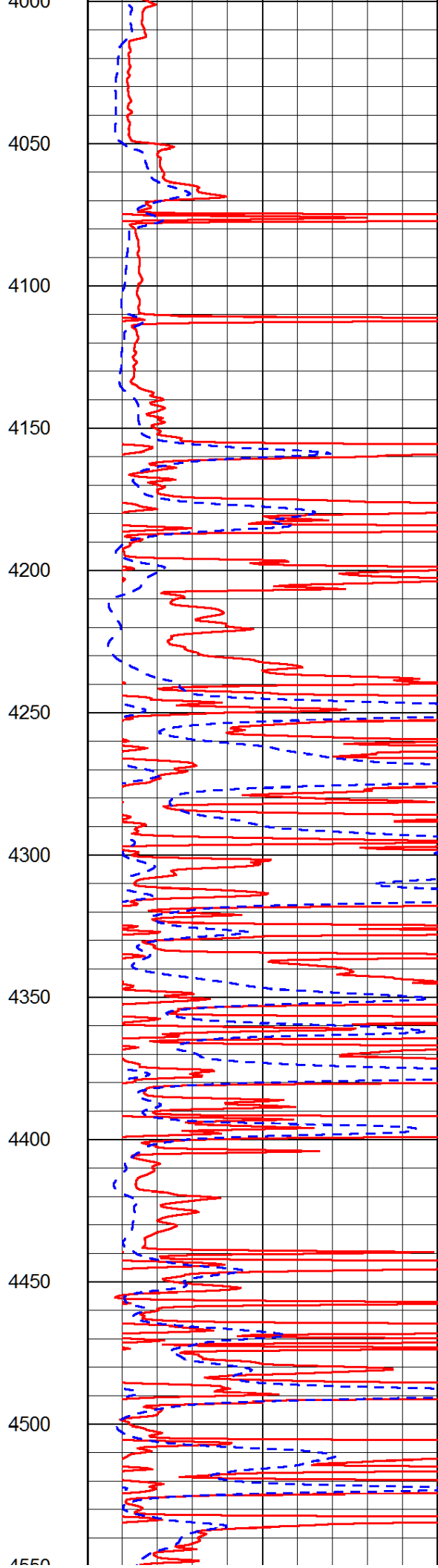
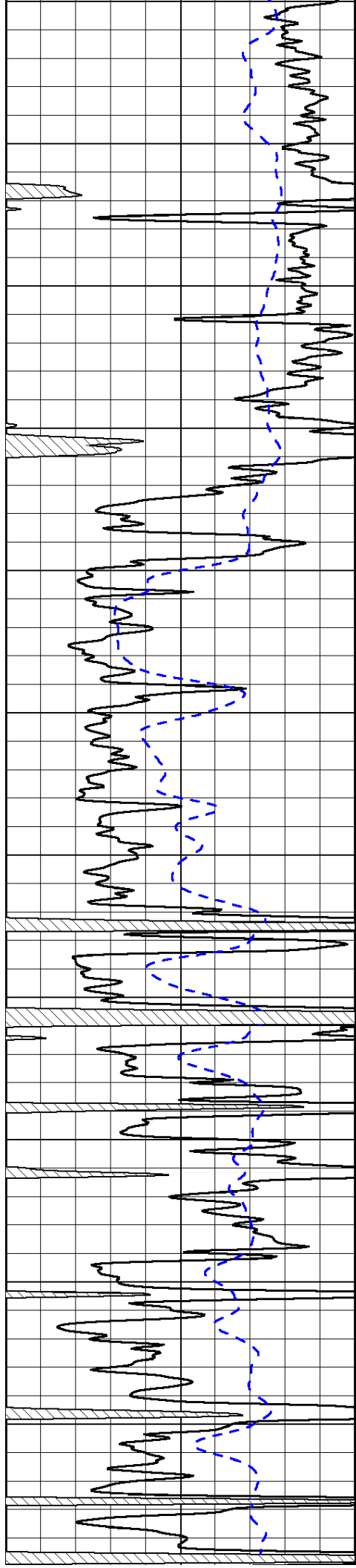


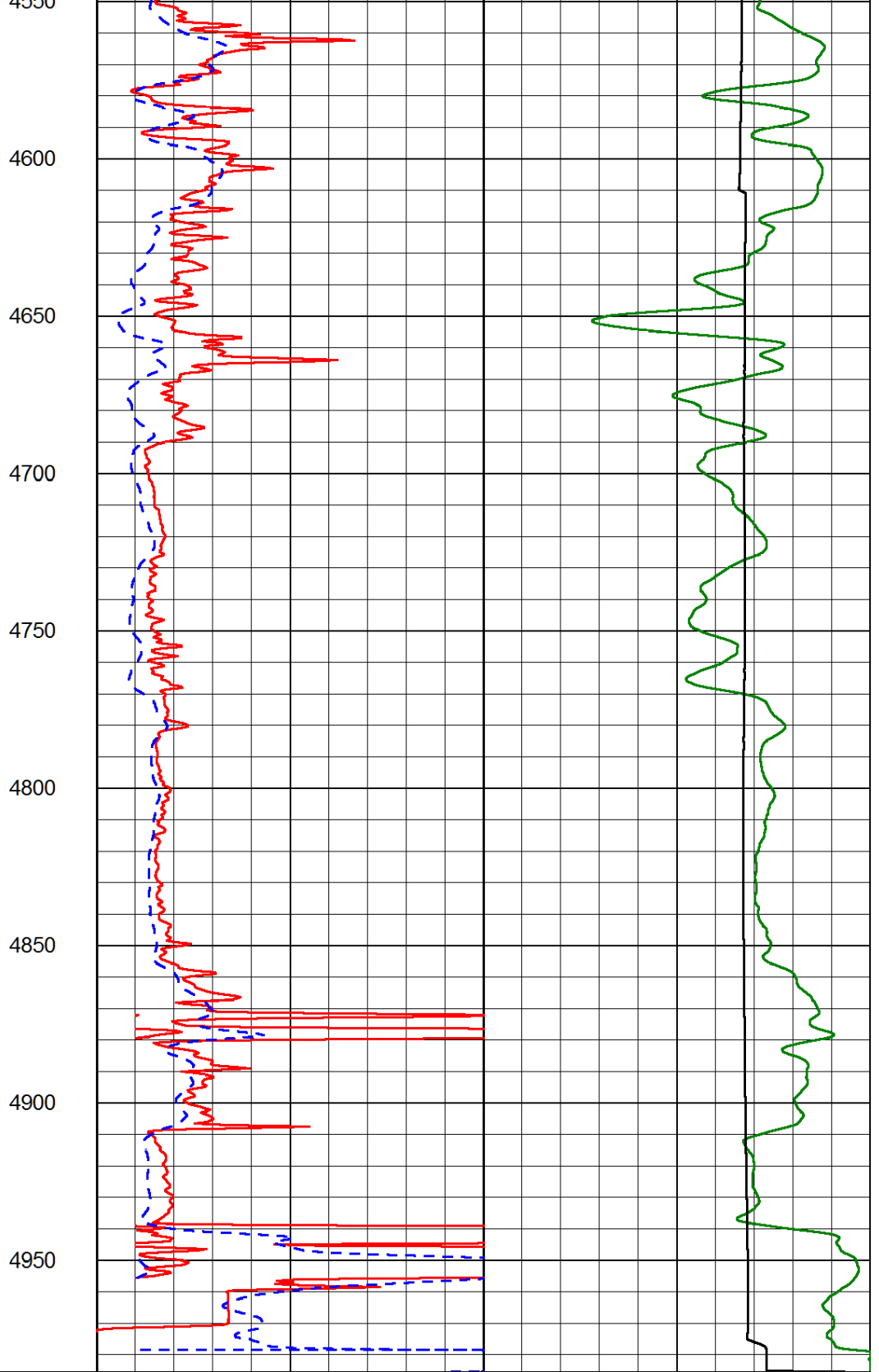
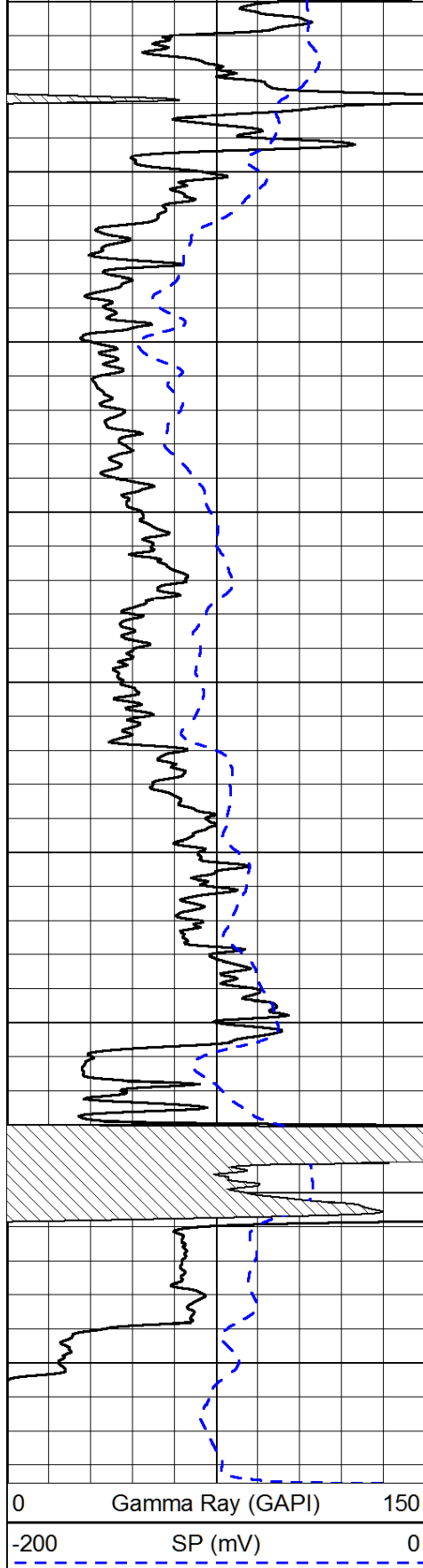












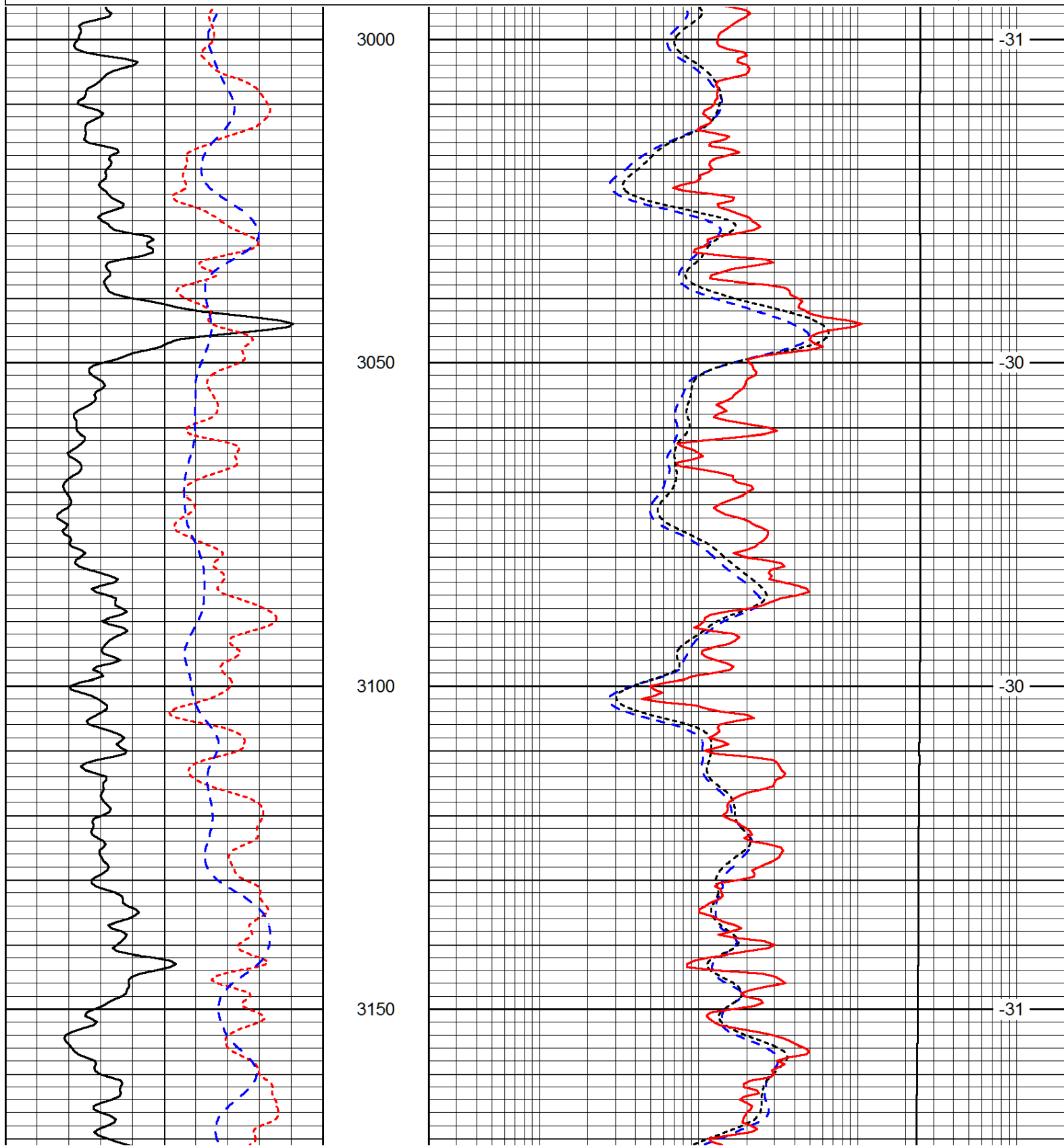
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

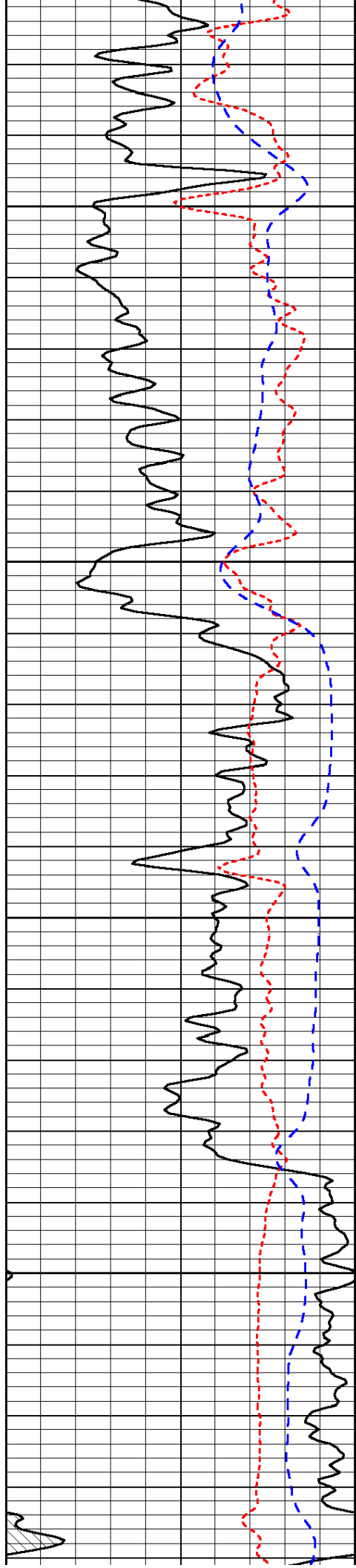
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Presentation Format: dil
Dataset Creation: Thu Jul 18 13:36:11 2013
Charted by: Depth in Feet scaled 1:240

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)



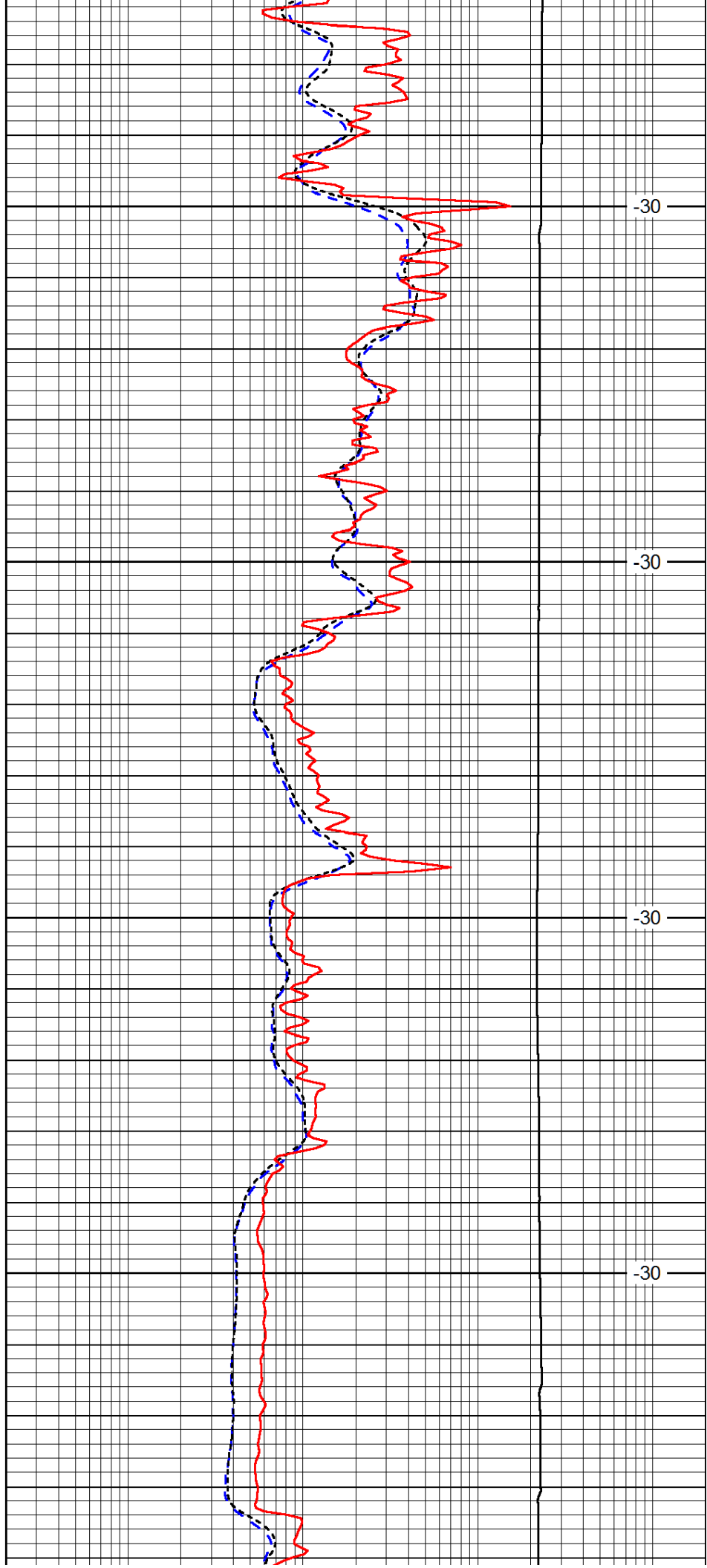


3200

3250

3300

3350

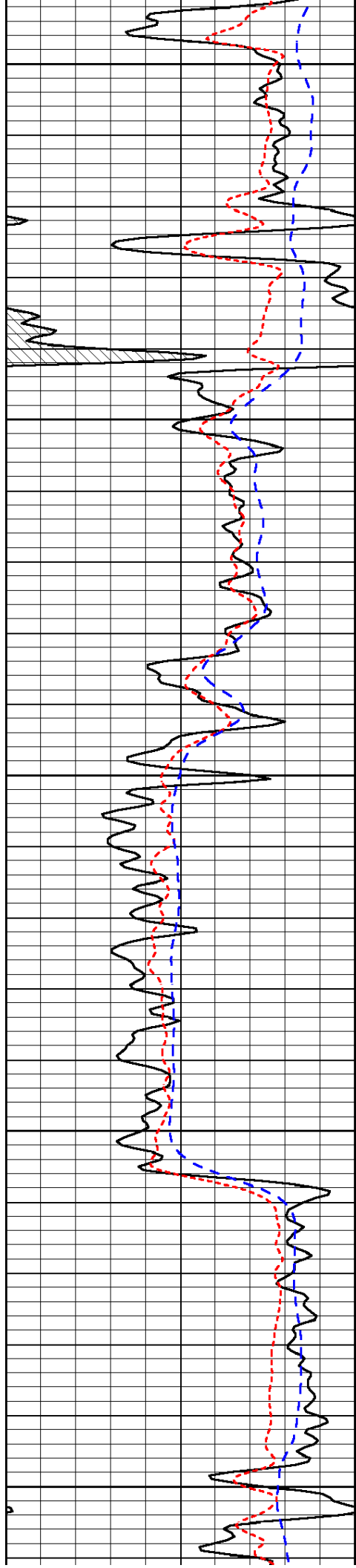


-30

-30

-30

-30



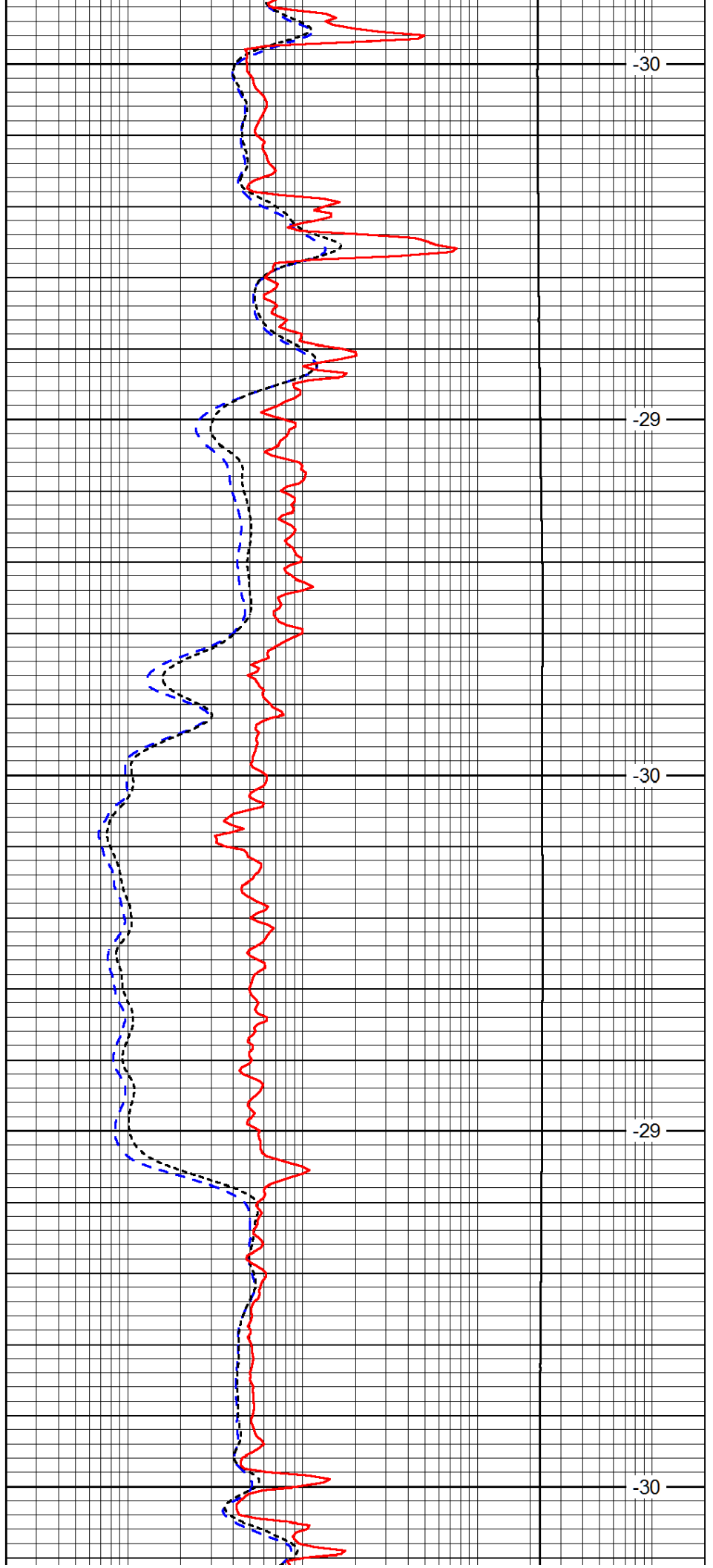
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3450

3500

3550

3600



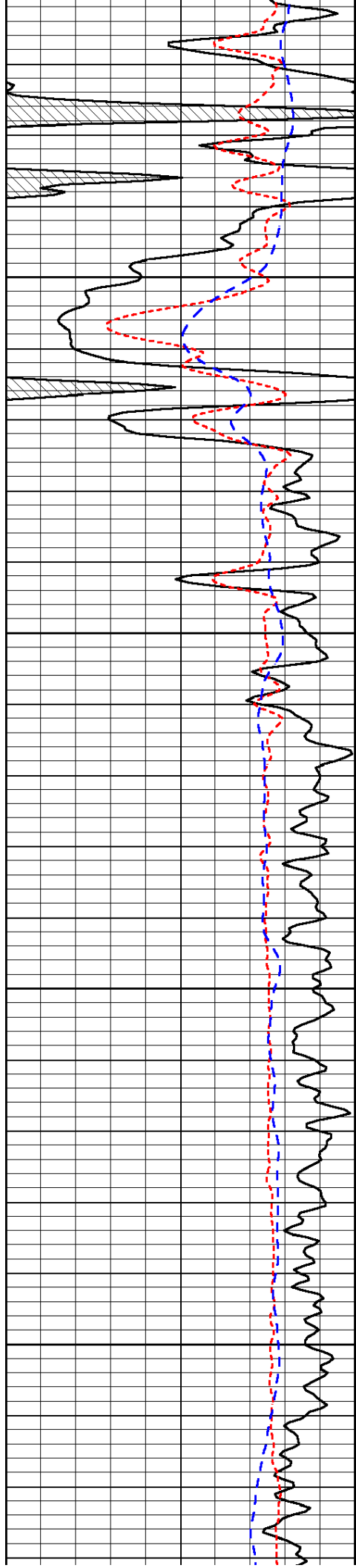
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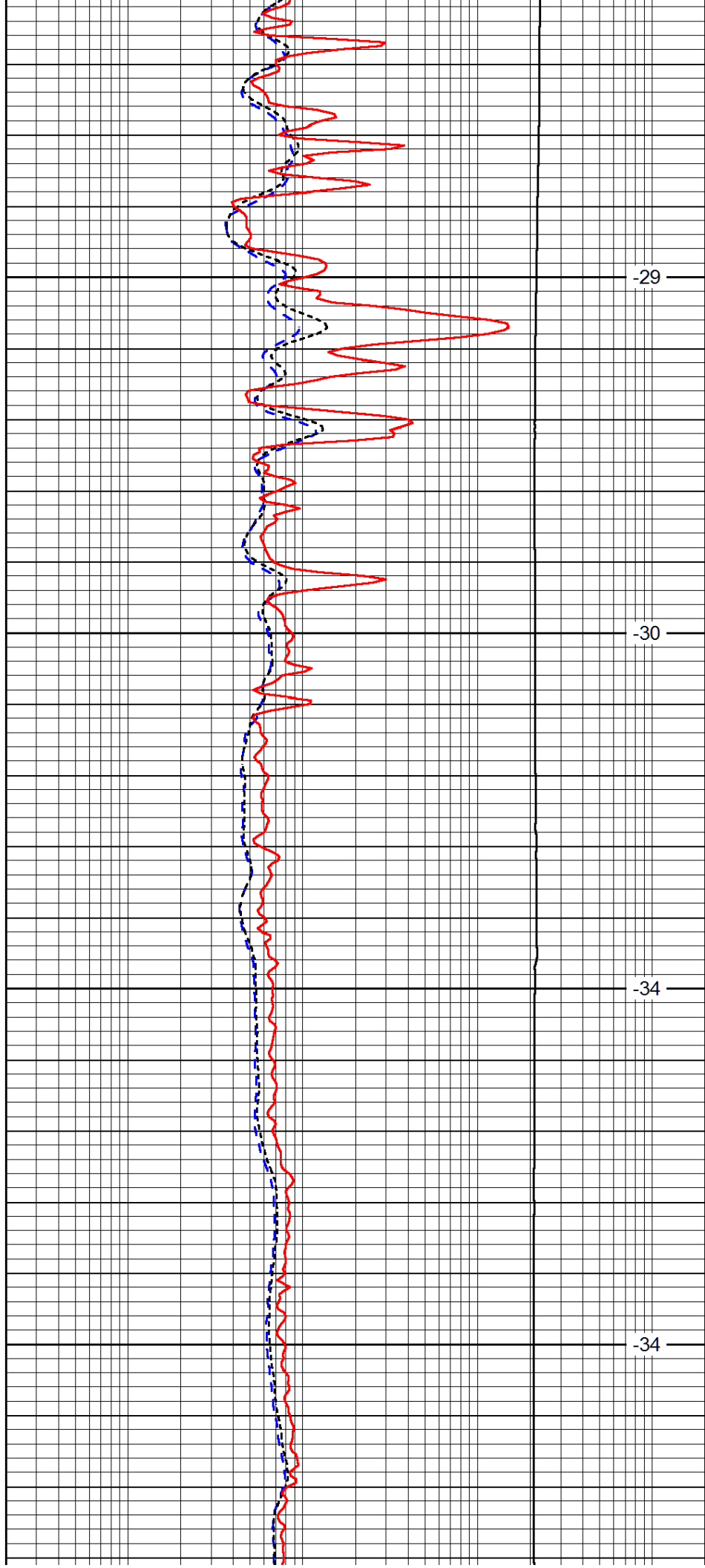


3650

3700

3750

3800

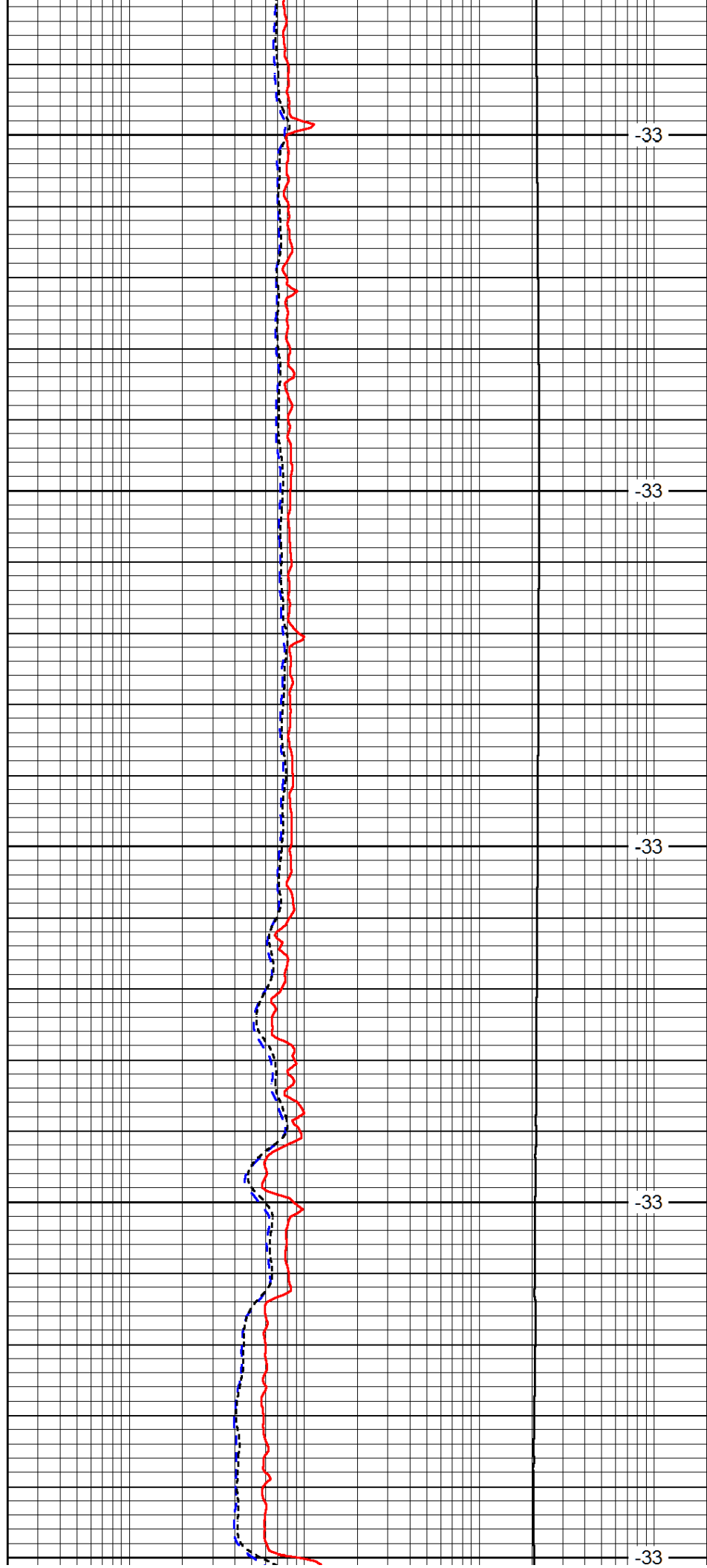
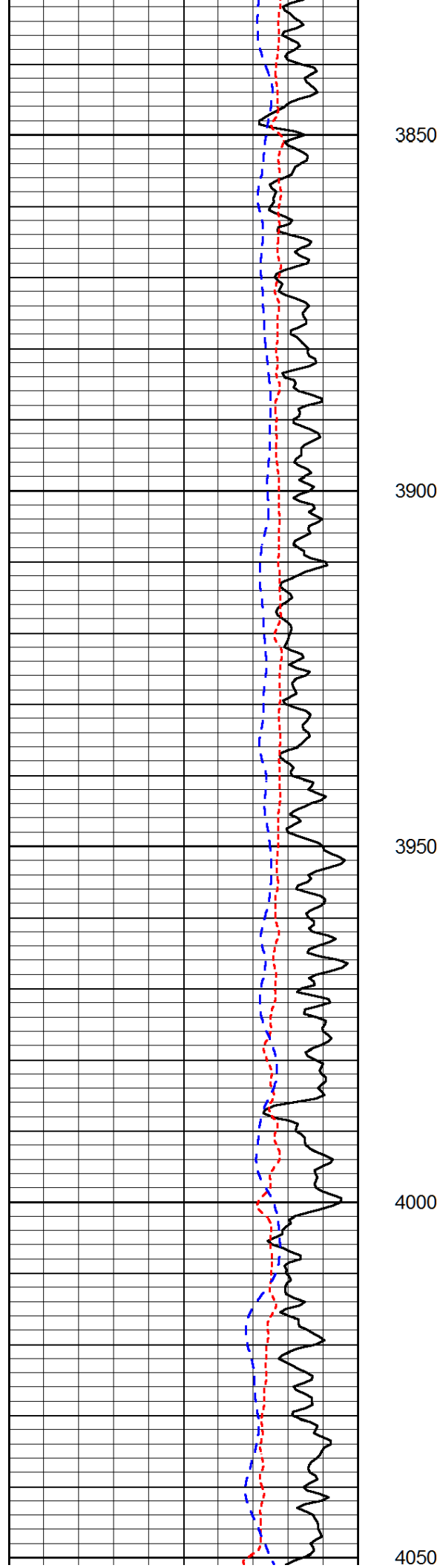


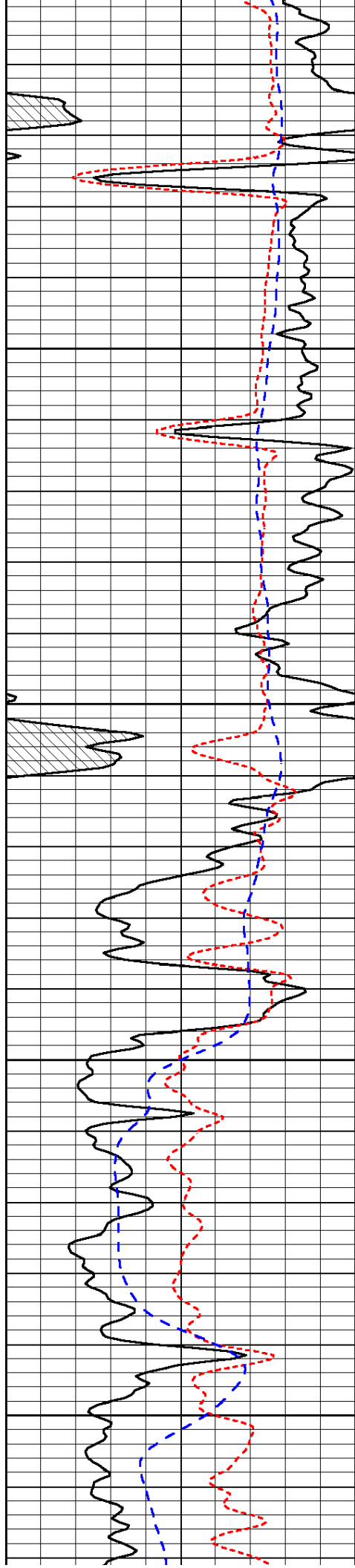
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-34

-34



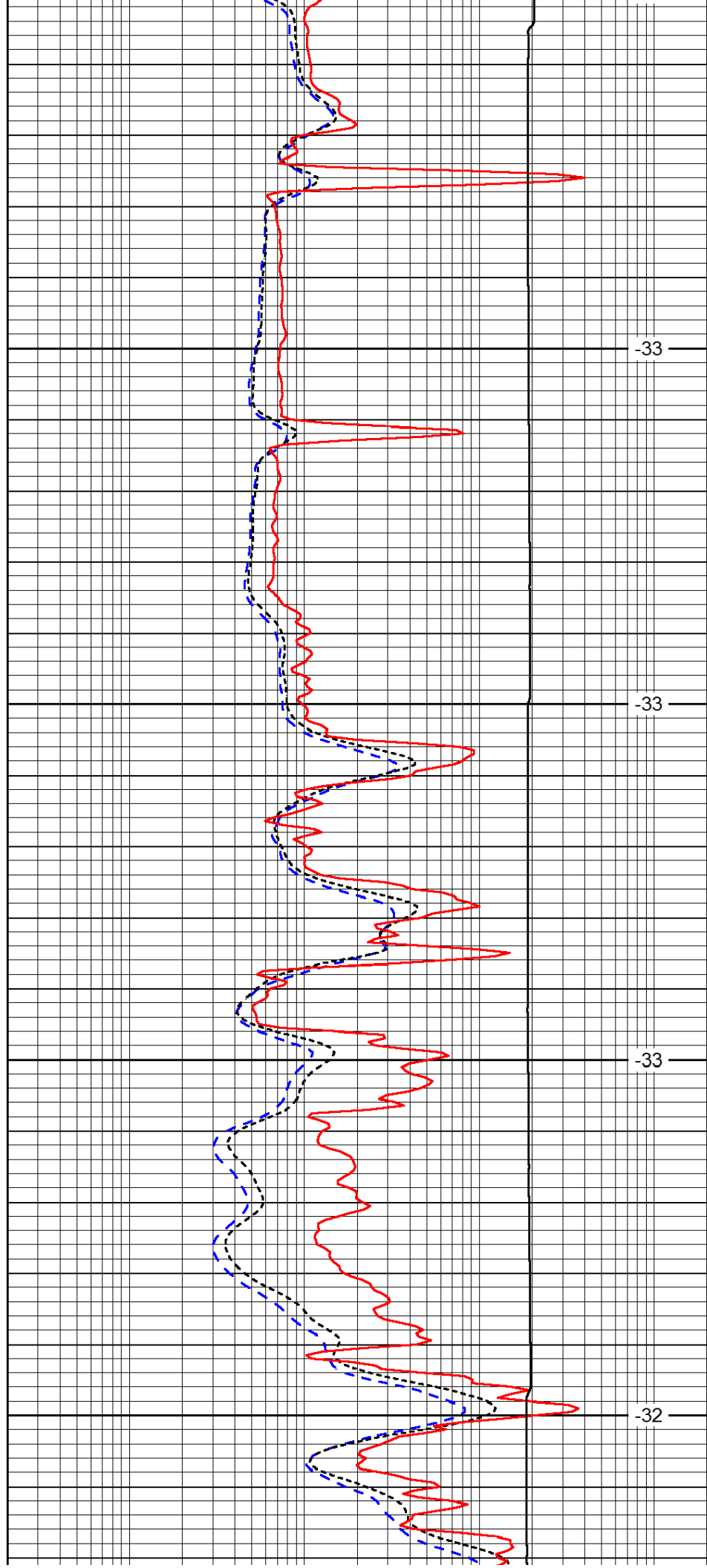


4100

4150

4200

4250

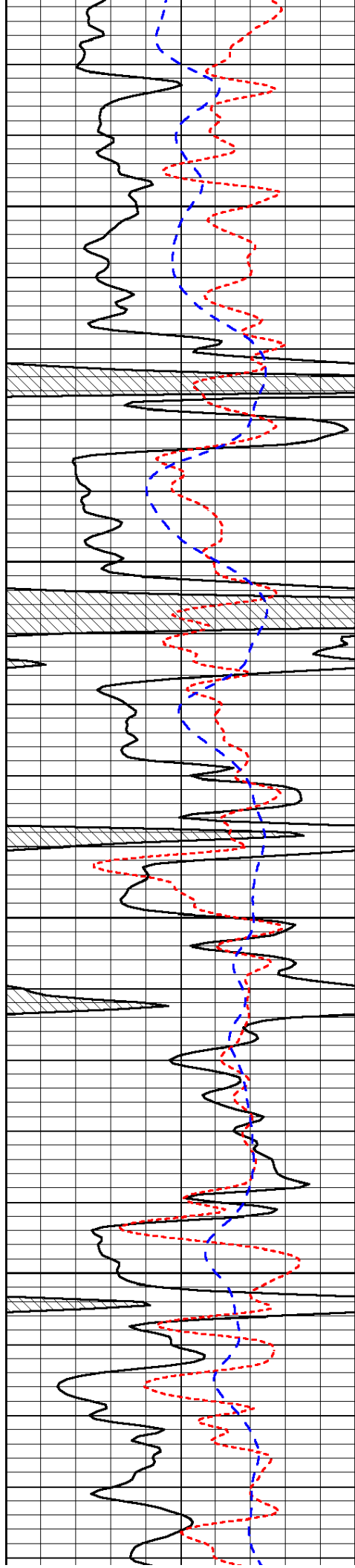


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-33

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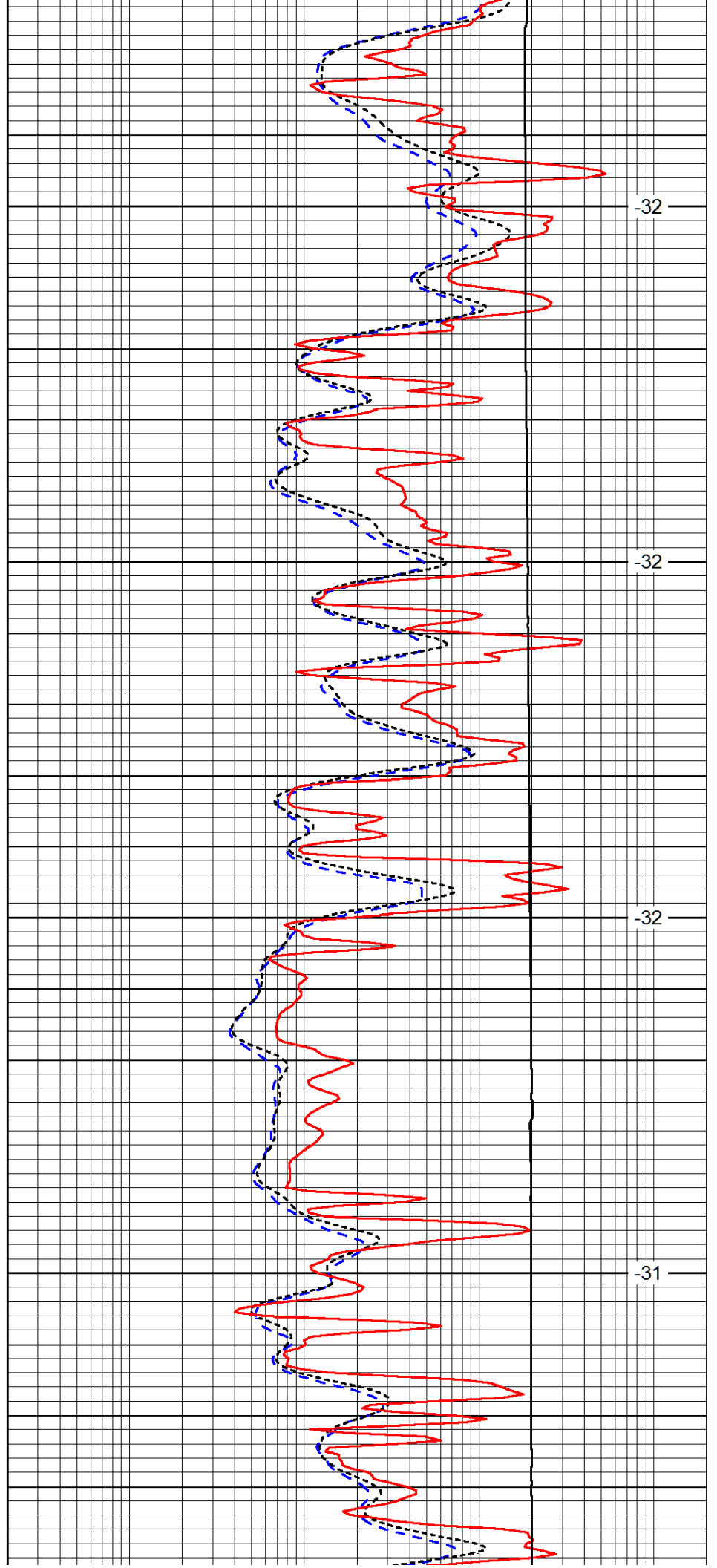


4300

4350

4400

4450

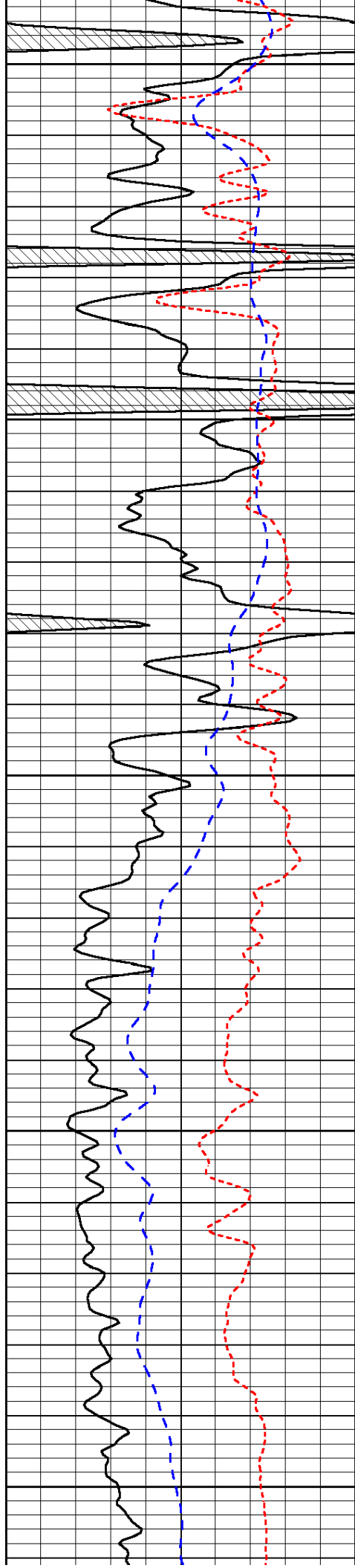


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-31



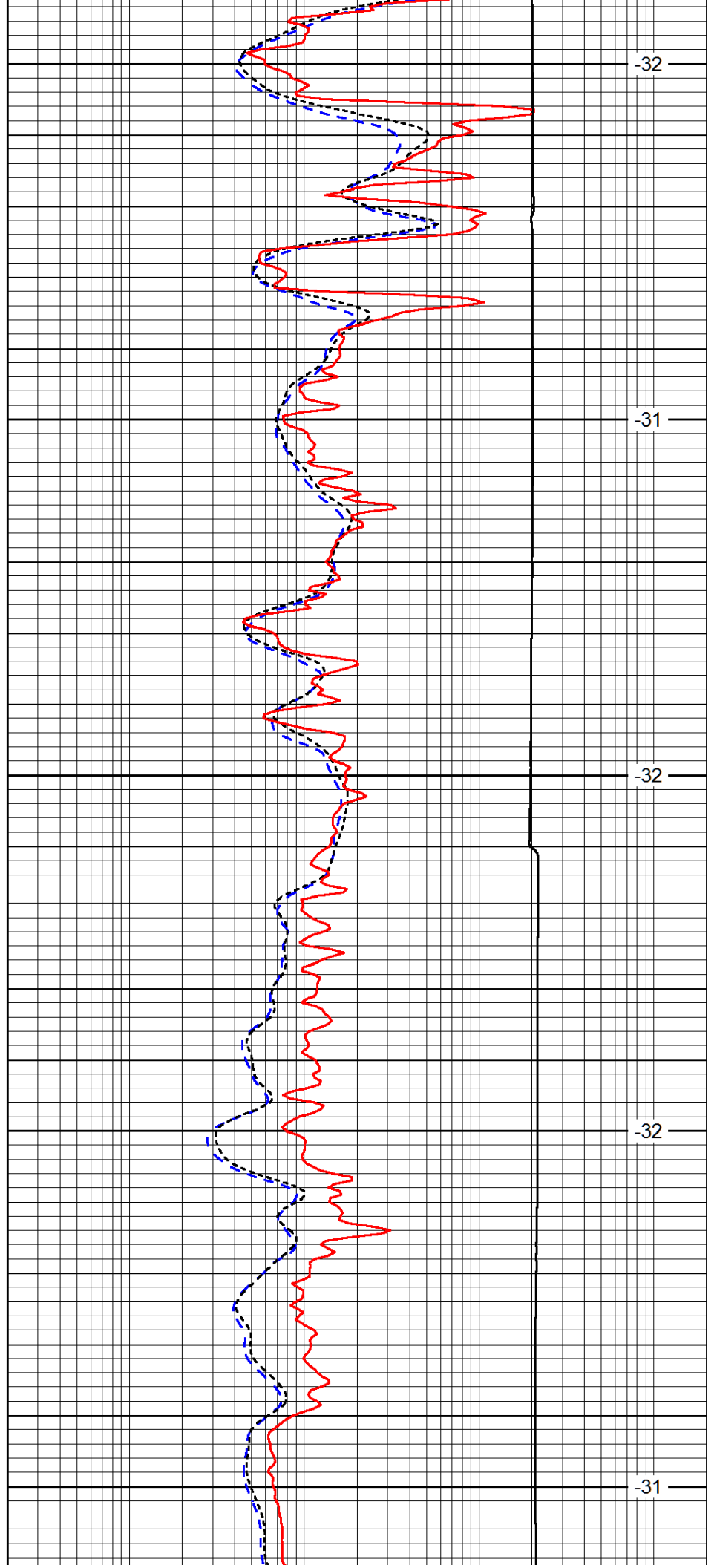
4500

4550

4600

4650

4700



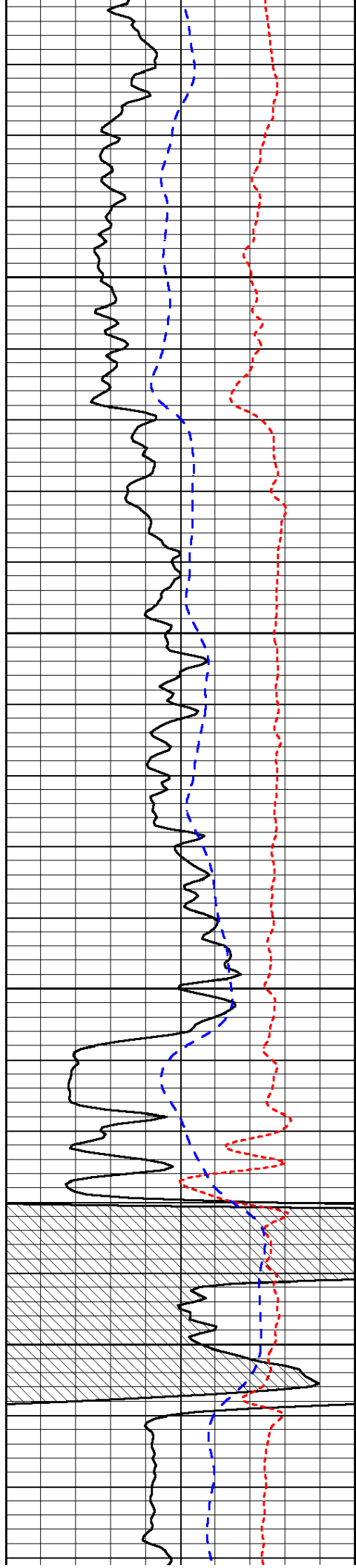
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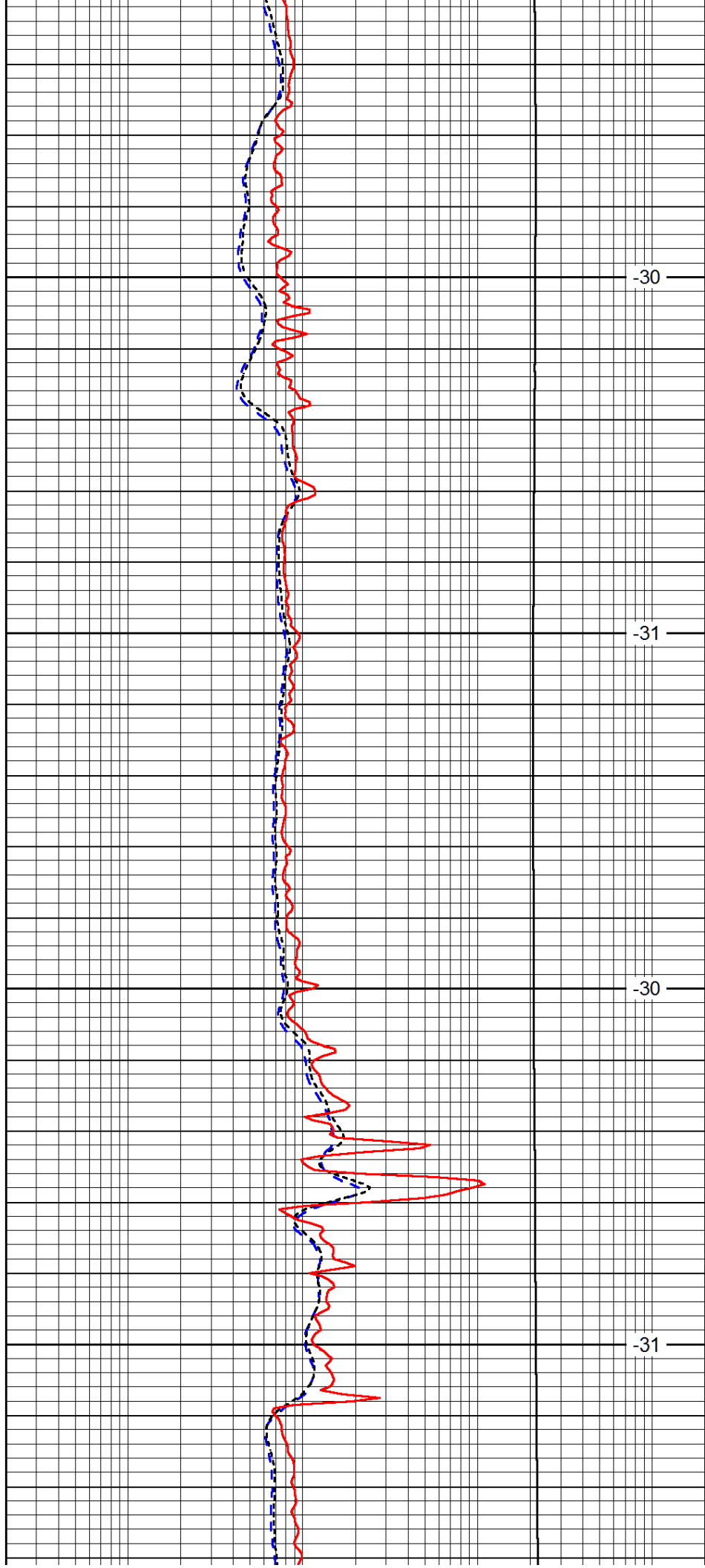


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4900

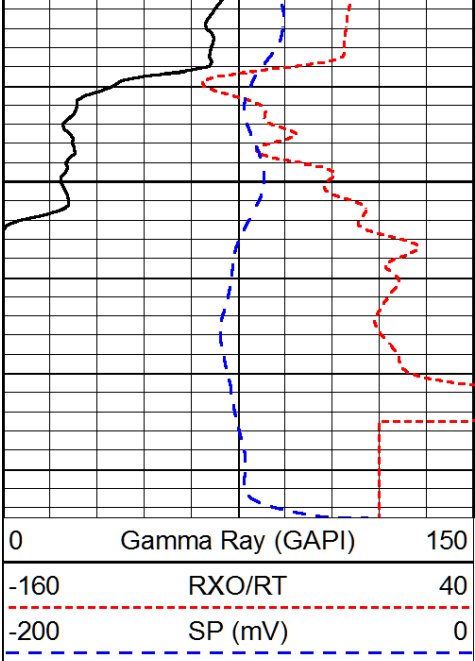


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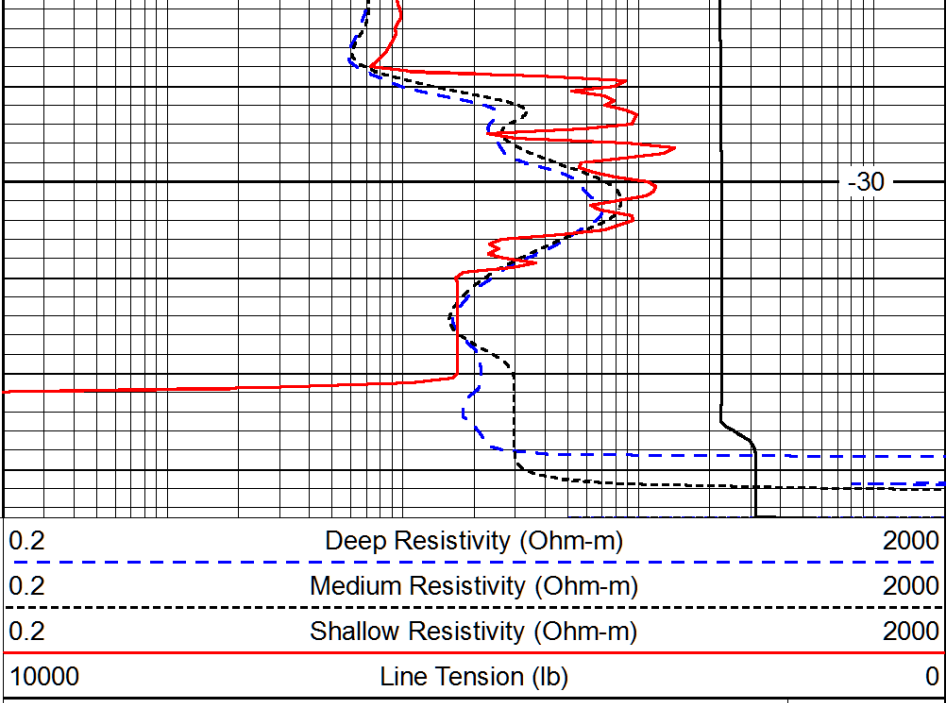
-31

-30

-31



4950



-30

LSPD
(ft/min)