



Pioneer Energy Services

Dual Induction Log

API No.

15-167-23,957-00-00

Company Fossil Energy, LLC.

Well Starkey #1-35

Field Unnamed

County Russell State

Kansas

Location

NW SE SE SW
467' FSL & 2032' FWL

Sec: 35

Twp: 12S

Rge: 14W

Elevation

Permanent Datum Ground Level
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1586
D.F. 1579
G.L. 1579

Date

3/12/2014

Run Number

One

Depth Driller

3090

Depth Logger

3089

Bottom Logged Interval

3088

Top Log Interval

400

Casing Driller

8.625 @ 435

Casing Logger

433

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4000

Density / Viscosity

8.9 60

pH / Fluid Loss

11 6.4

Source of Sample

Flowline

Rm @ Meas. Temp

0.24 @ 62

Rmf @ Meas. Temp

0.18 @ 62

Rmc @ Meas. Temp

0.32 @ 62

Source of Rmf / Rmc

Charts

Rm @ BHT

0.14 @ 107

Operating Rig Time

3 1/2 Hours

Max Rec. Temp. F

107

Equipment Number

15

Location

Hays

Recorded By

D. Kerr

Witnessed By

Randall Kilian

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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

Russell KS, 4 North to Land RD,
1/4 East, North Into

Database File: fossil_starkey_1_35hd.db

Dataset Pathname: DIL/fosstk

Presentation Format: dil2in

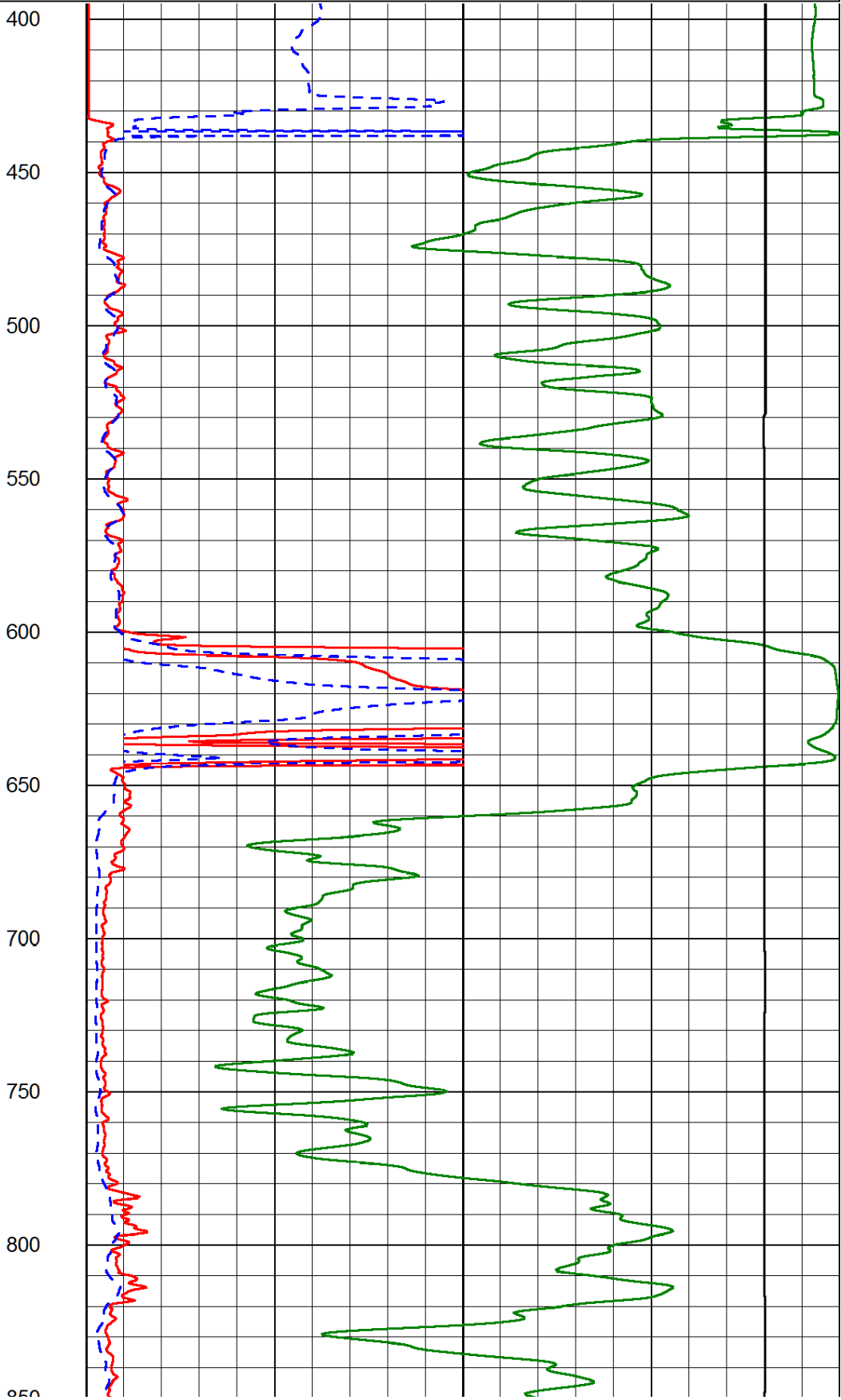
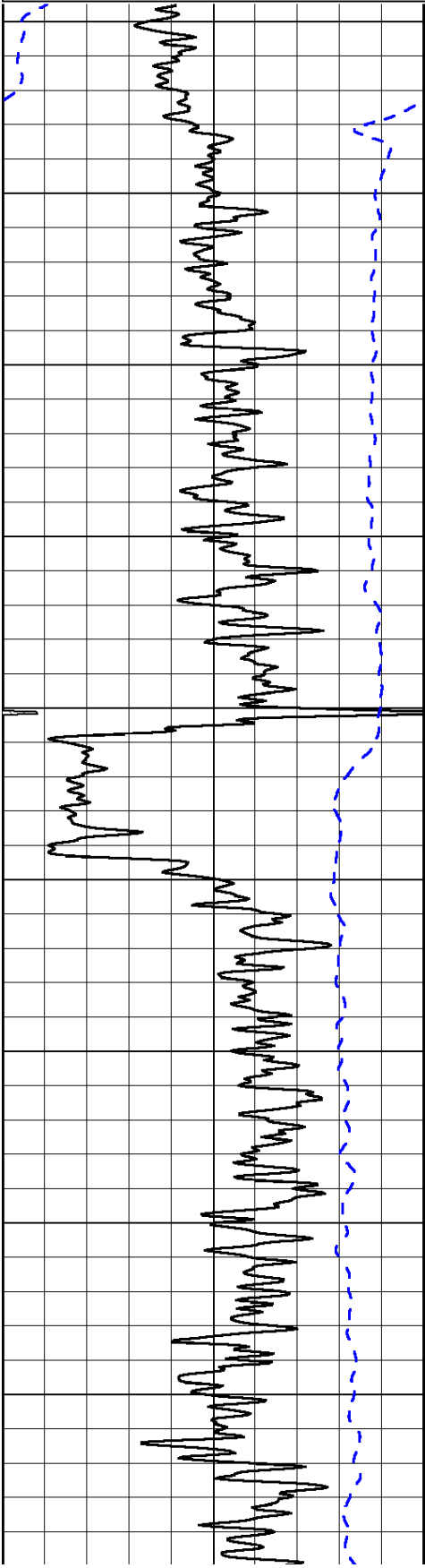
Dataset Creation: Wed Mar 12 18:35:54 2014

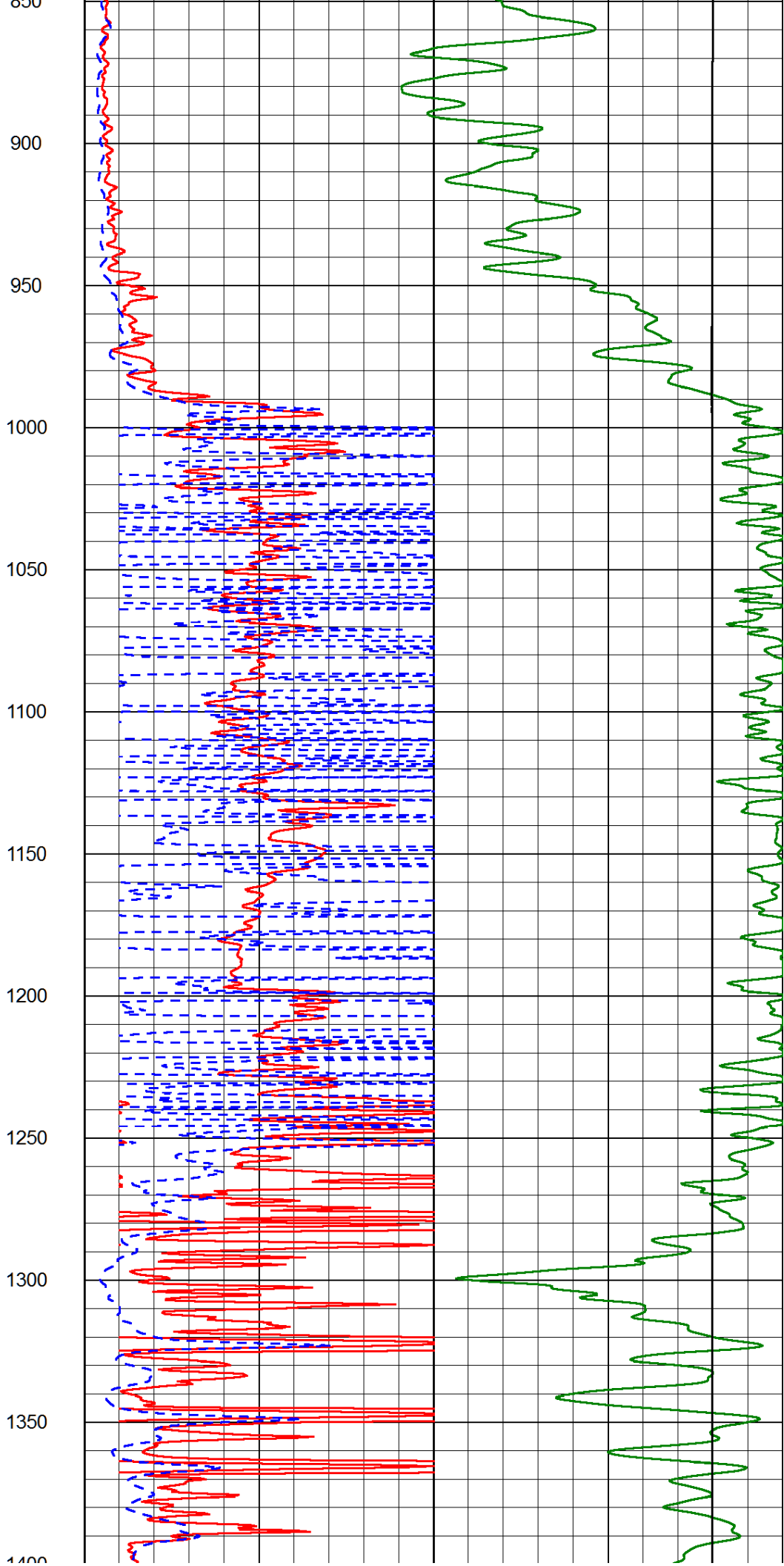
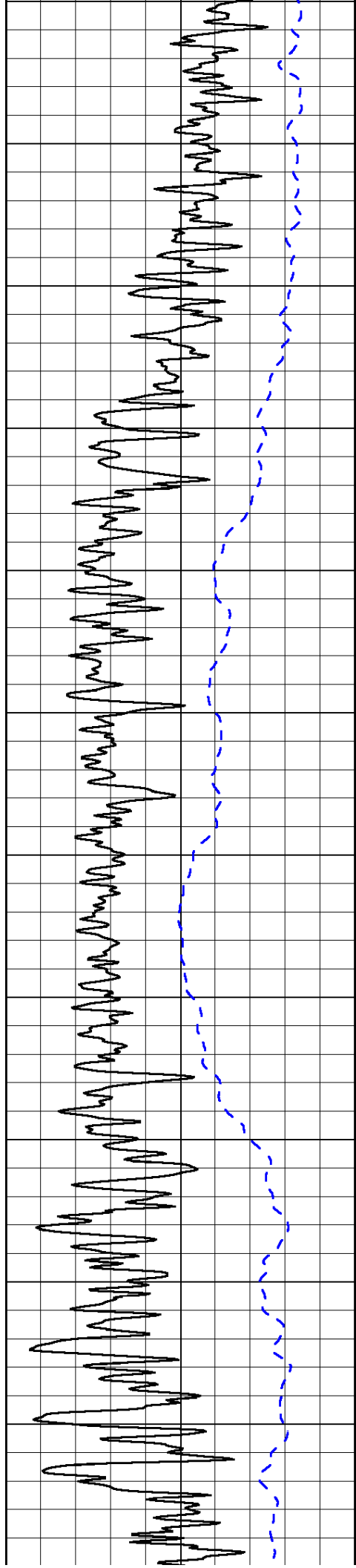
Charted by: Depth in Feet scaled 1:600

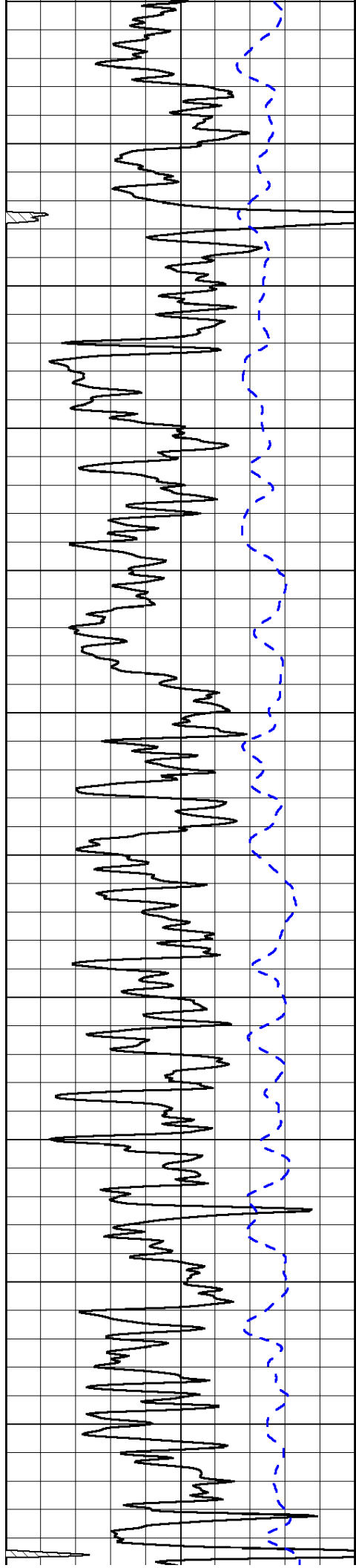
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

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

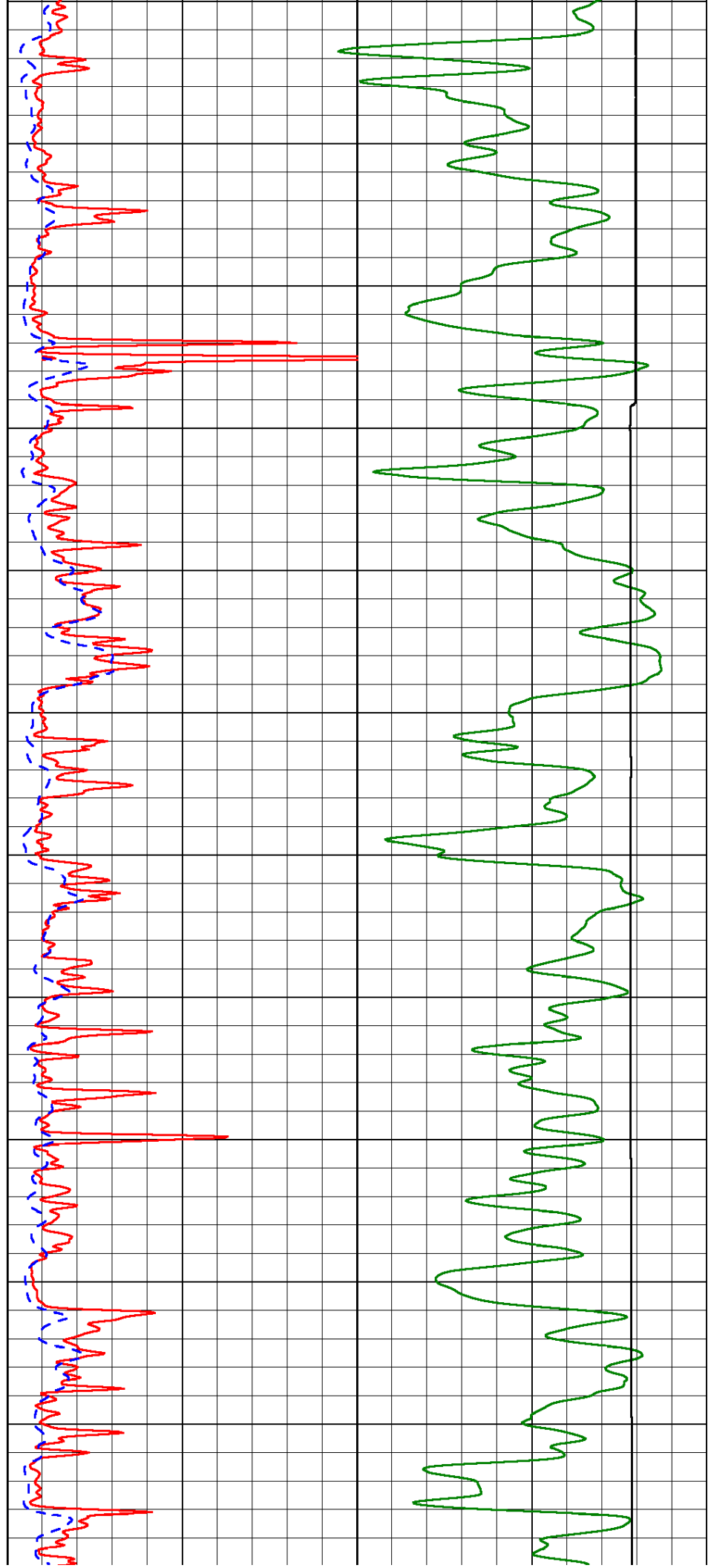
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

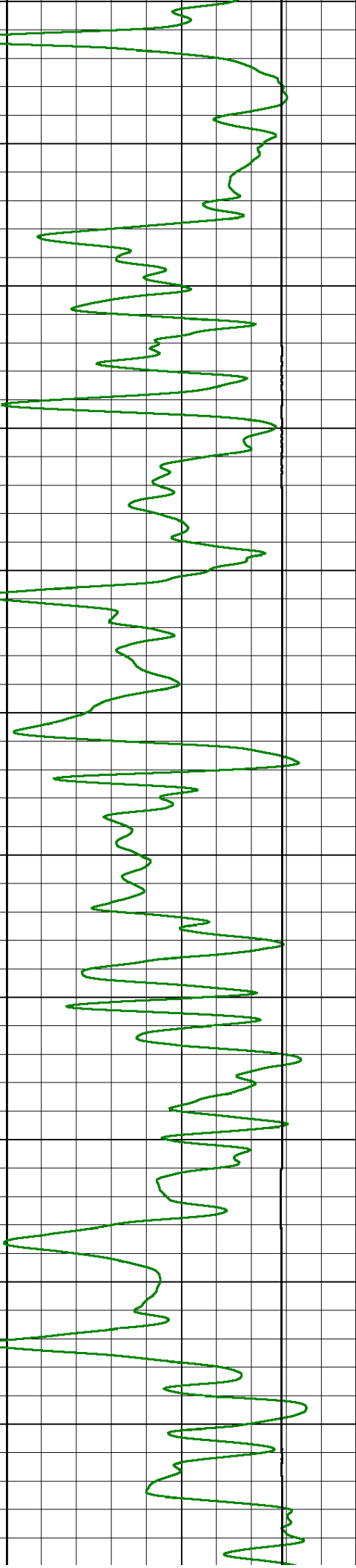
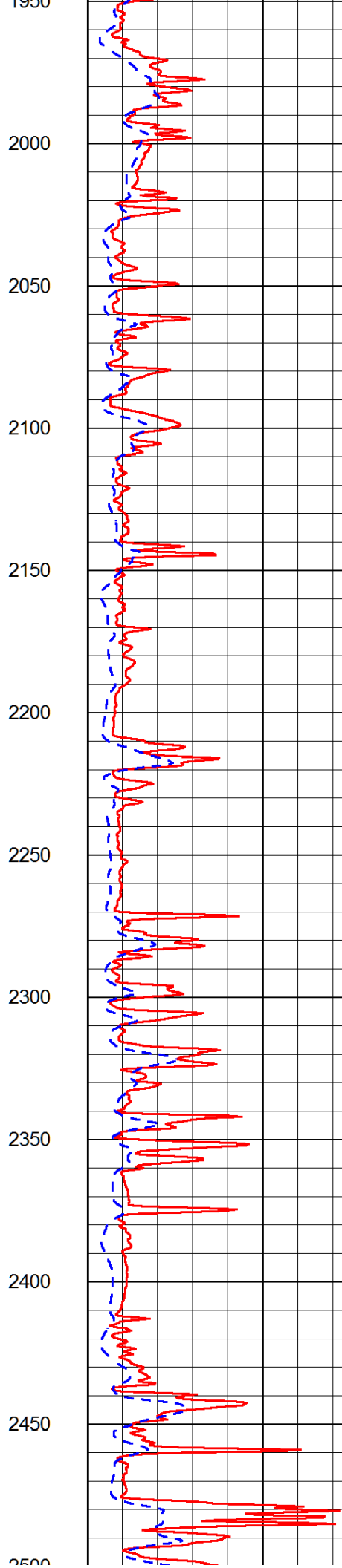
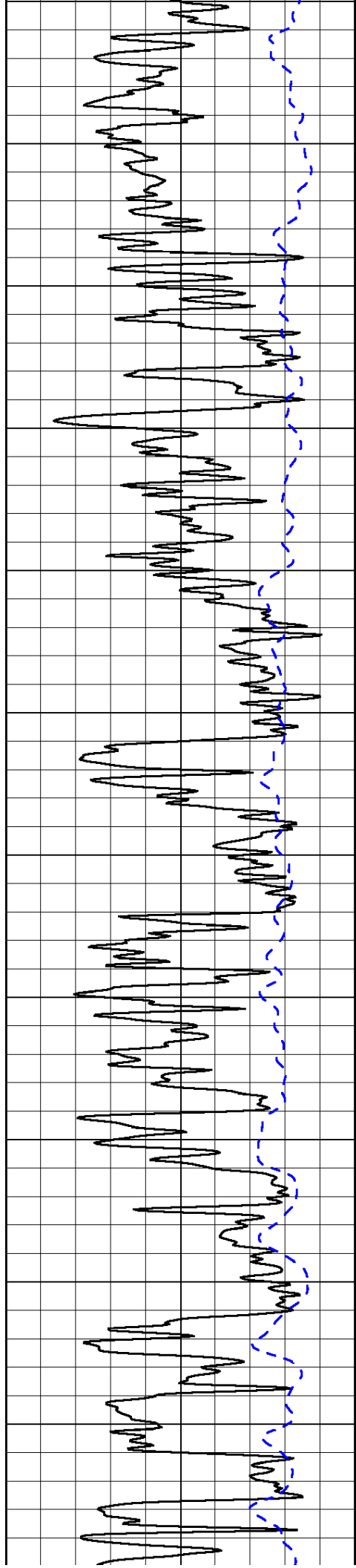


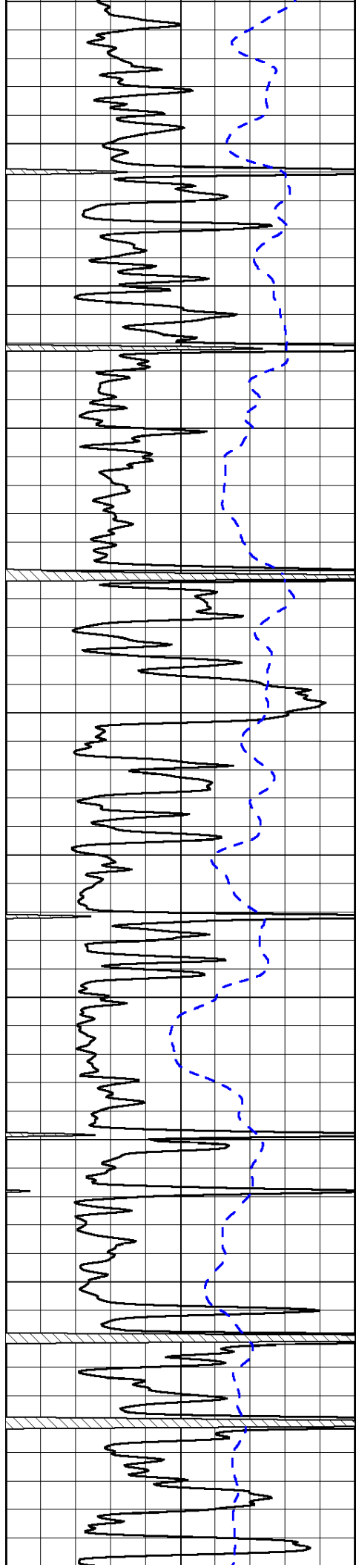




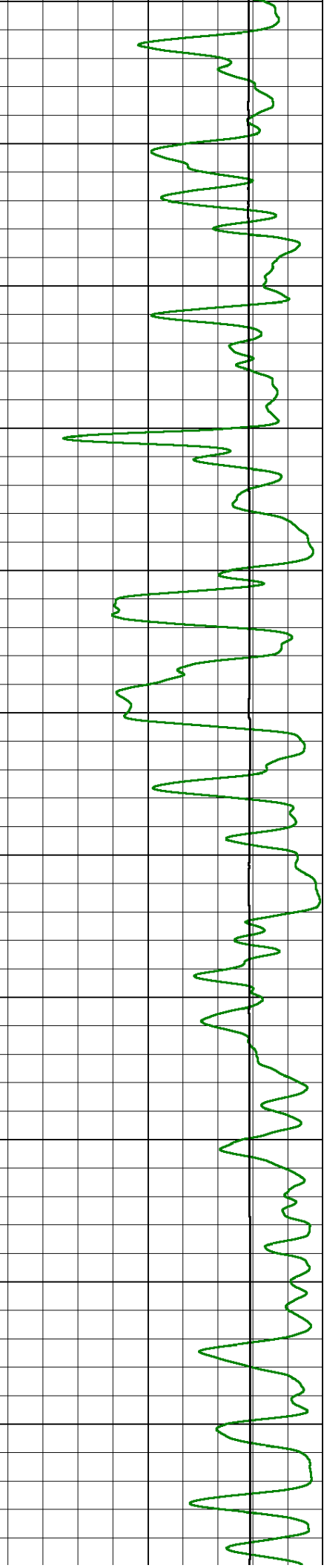
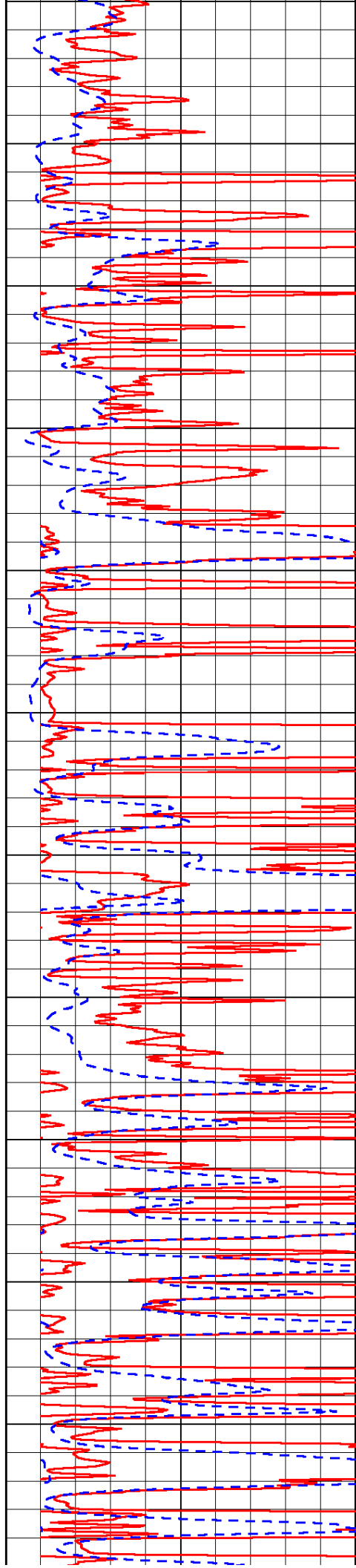
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950

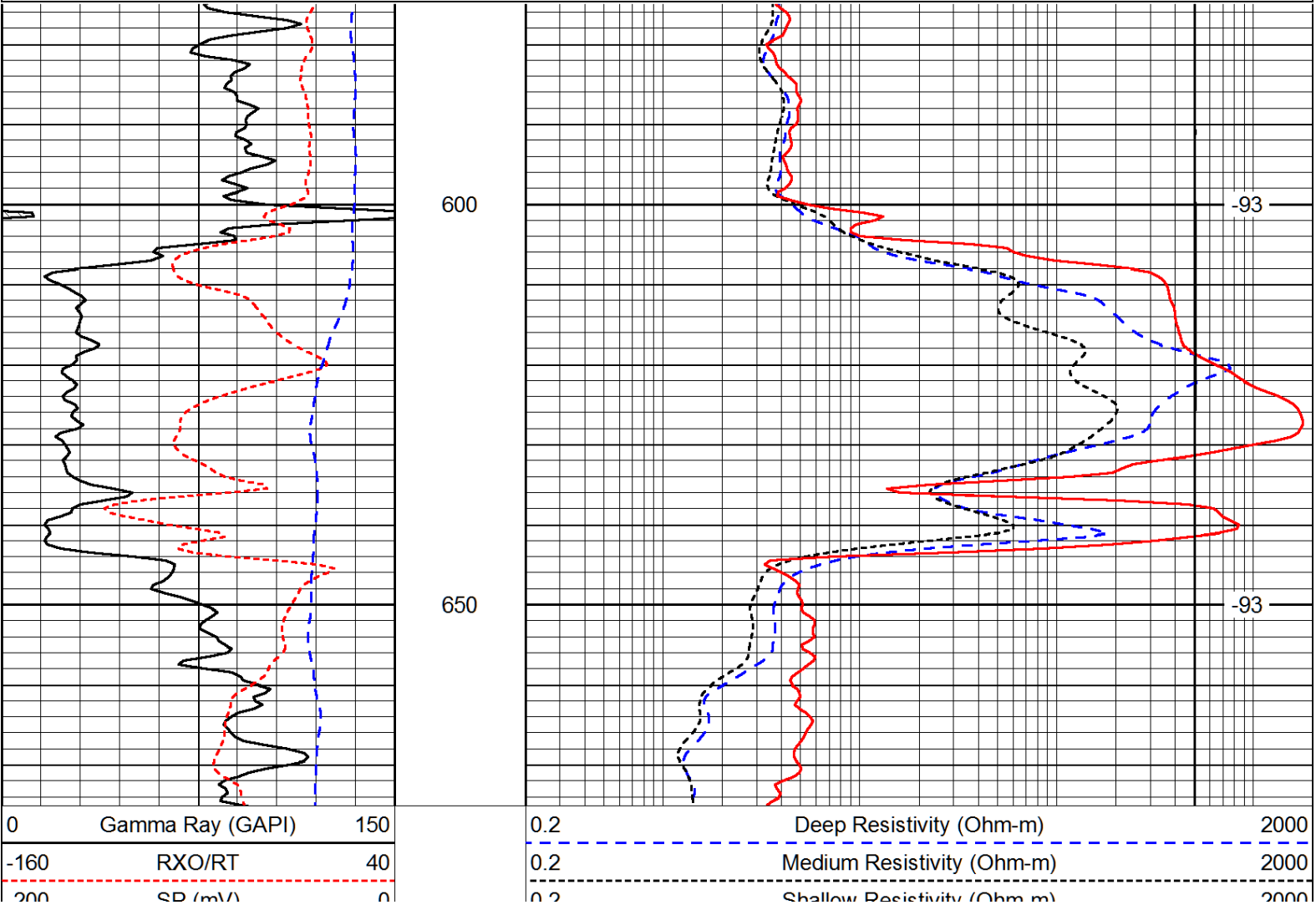
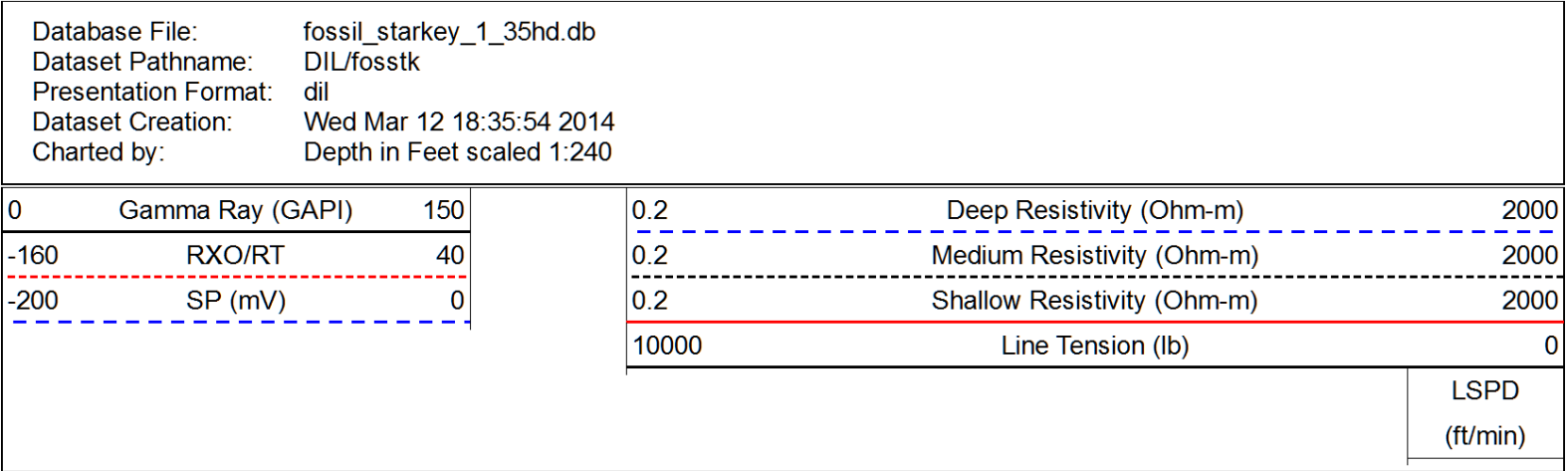
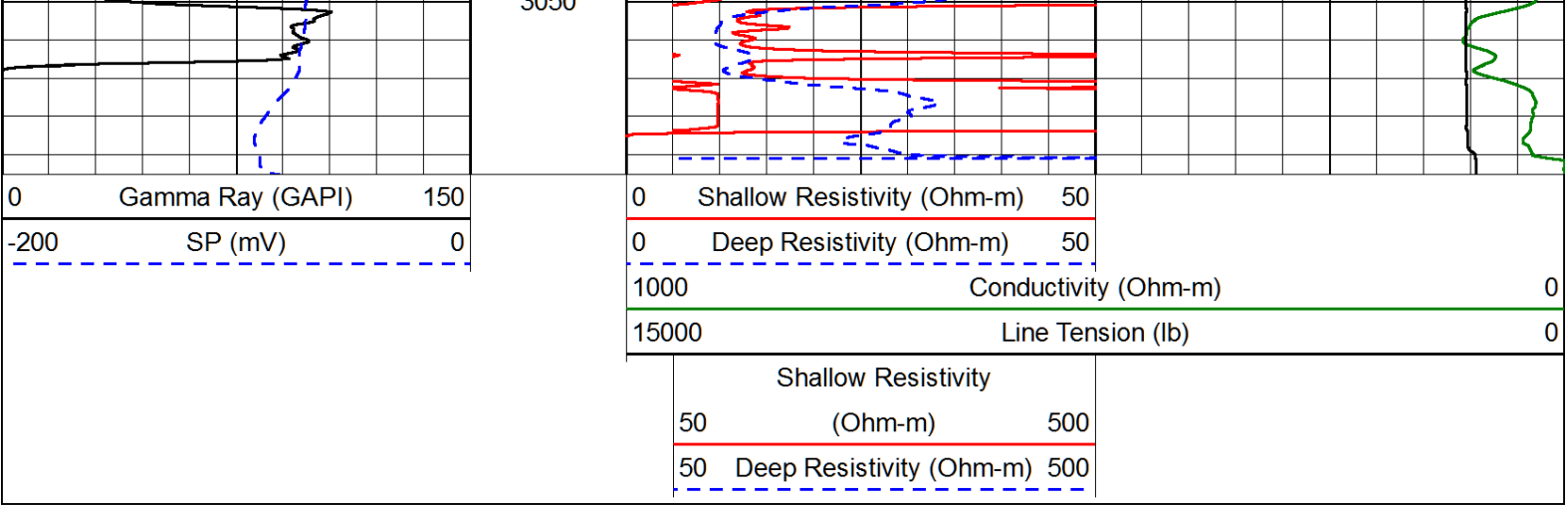






2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050





200	SP (mV)	0
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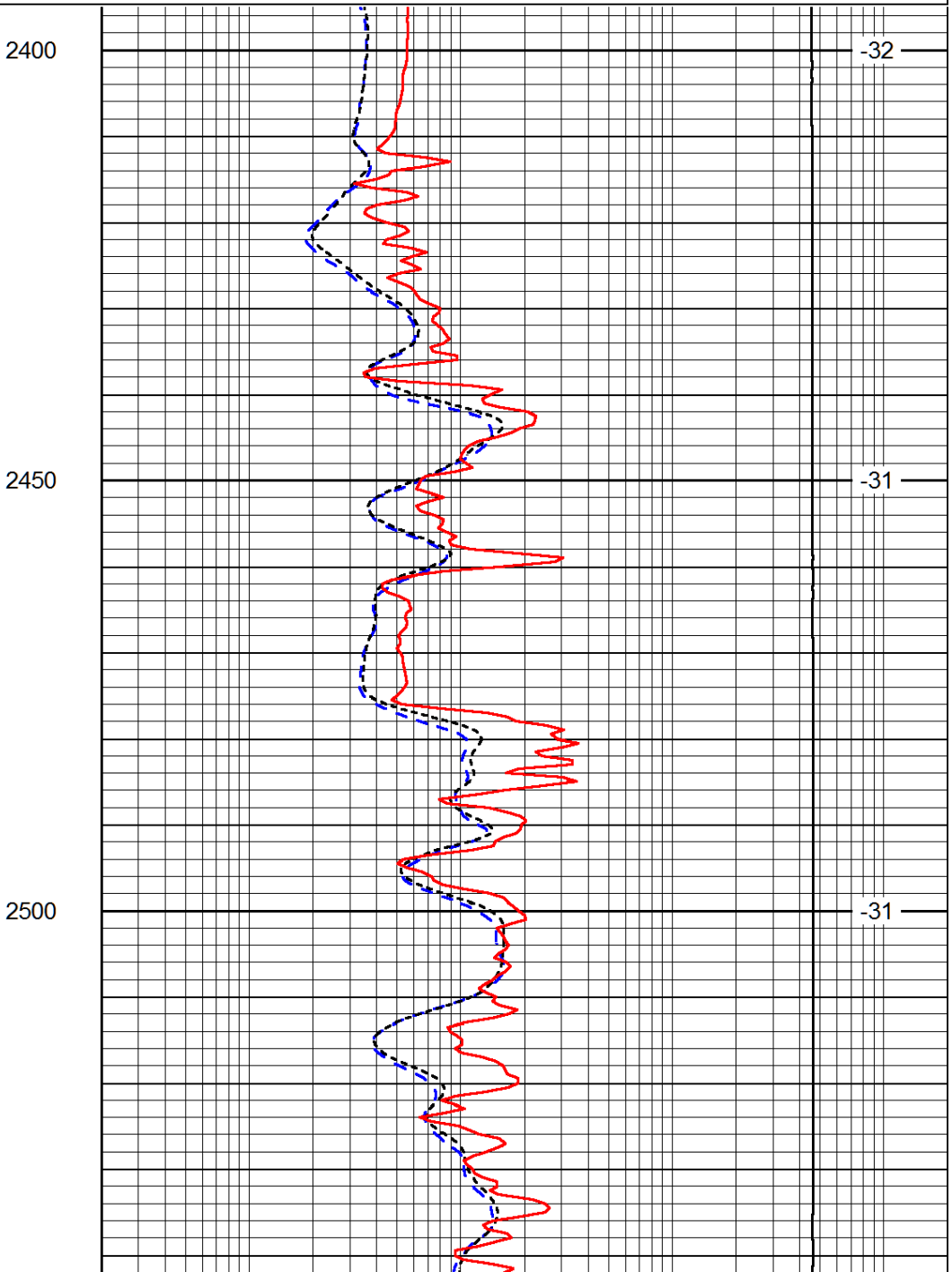
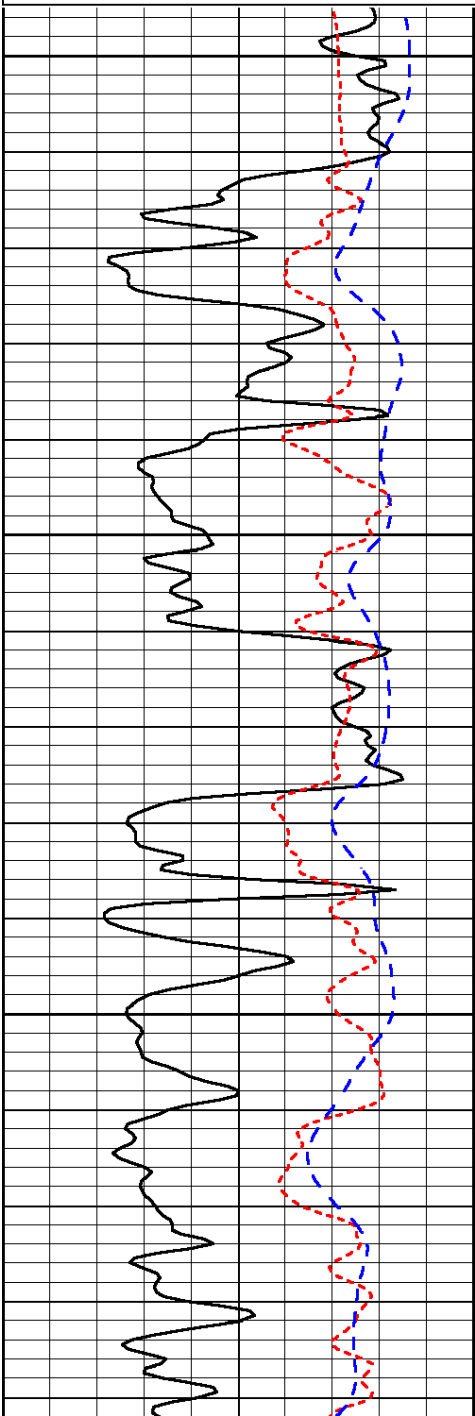
0.2	Shallow Resistivity (Ohm-Ft)	2000
10000	Line Tension (lb)	0
		LSPD (ft/min)

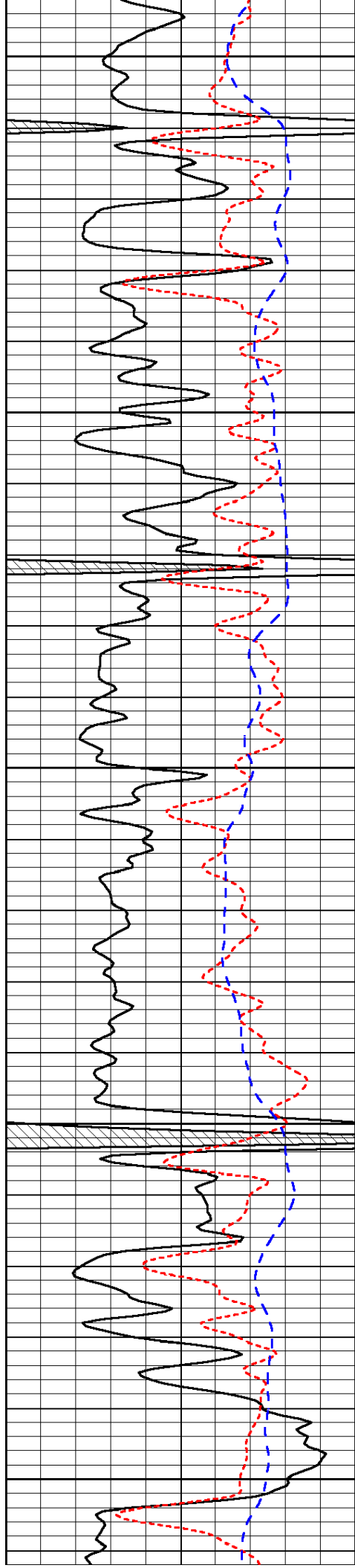
Database File:	fossil_starkey_1_35hd.db
Dataset Pathname:	DIL/fosstk
Presentation Format:	dil
Dataset Creation:	Wed Mar 12 18:35:54 2014
Charted by:	Depth in Feet scaled 1:240

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)





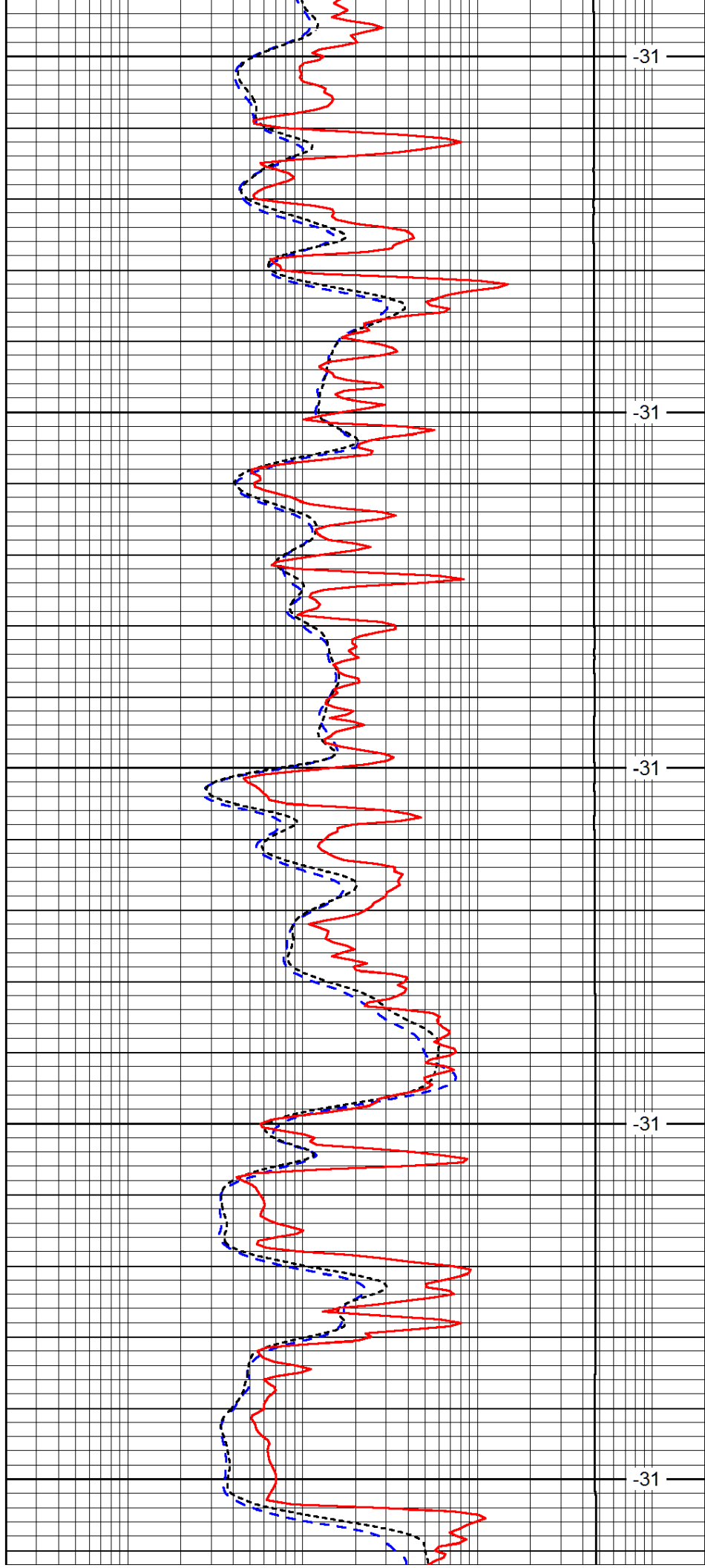
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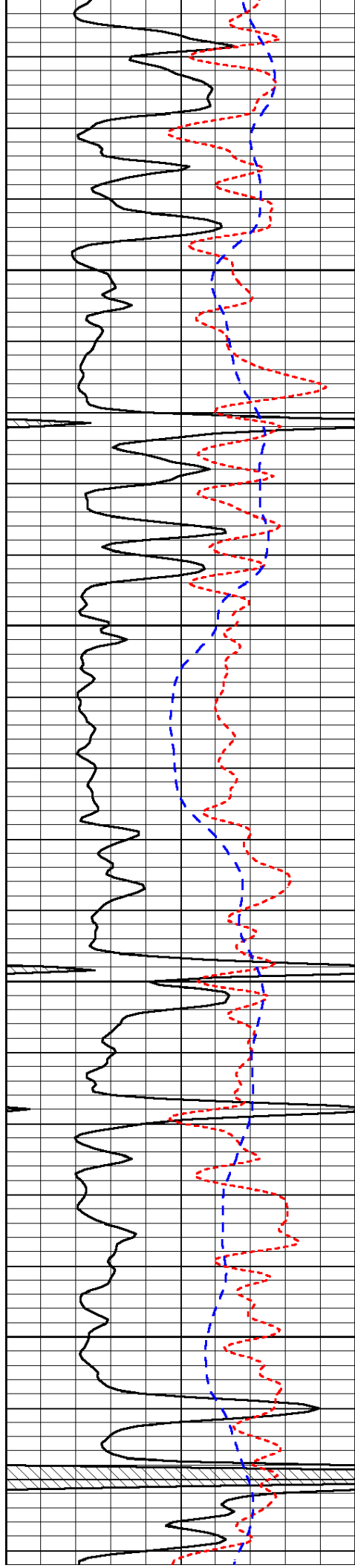
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2650

2700

2750



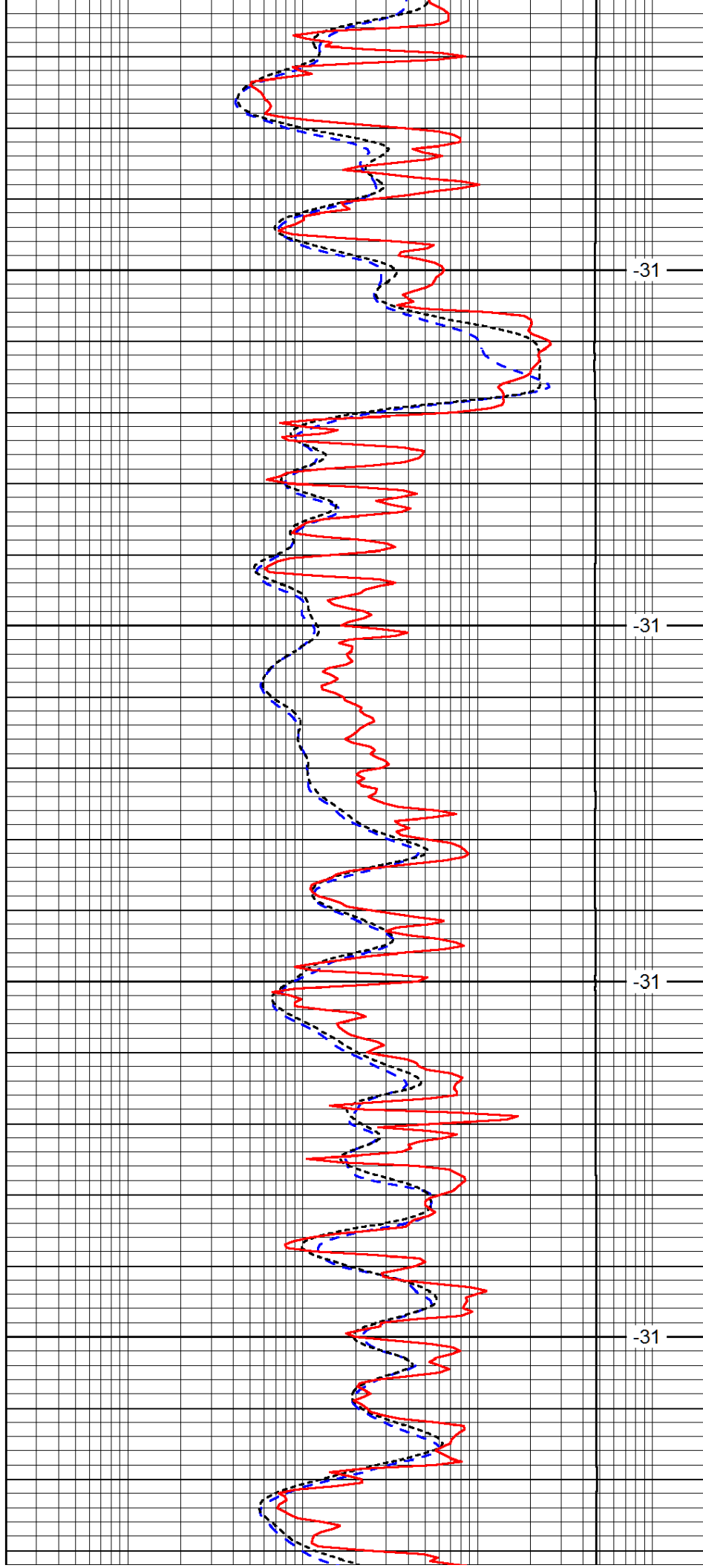


2800

2850

2900

2950

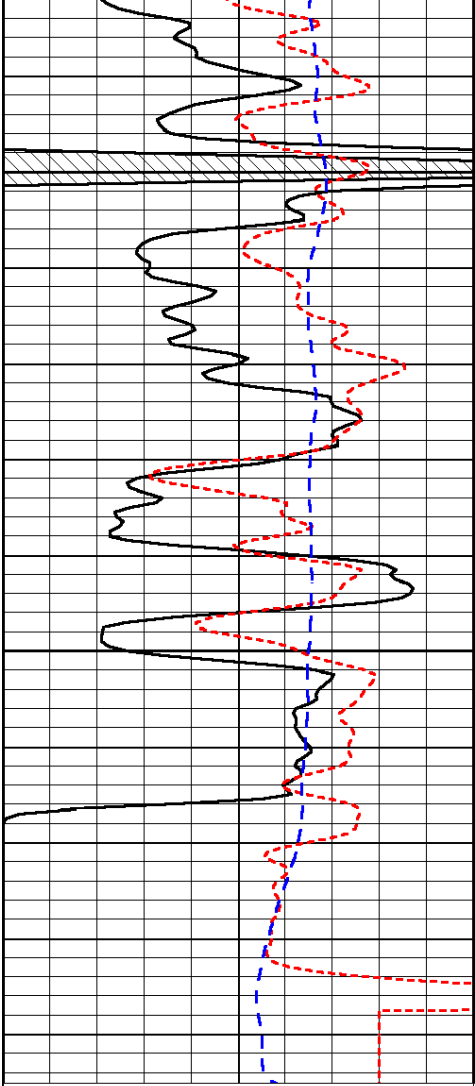


-31

-31

-31

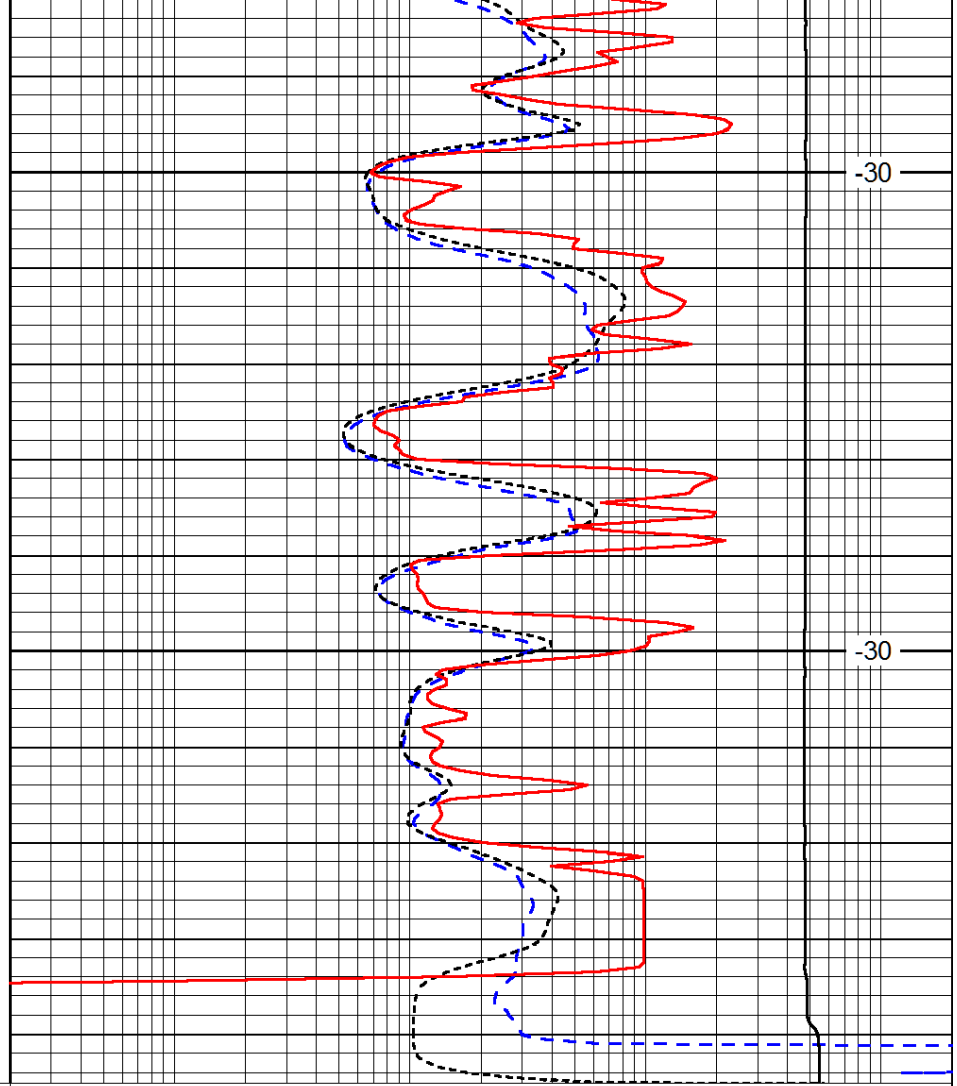
-31



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

3000

3050



-30

-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)