



Pioneer Energy Services

Dual Induction Log

API No.

15-167-23,984-00-00

Company American Warrior, Inc.

Well Eulert #20-35

Field Eulert

County Russell

State

Kansas

Location

NW NE NW SW
2470' FSL & 720' FWL

Other Services
CNL/CDL
MEL

Sec: 35

Twp: 11S

Rge: 15W

Elevation

Permanent Datum Ground Level Elevation 1812
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1820
D.F.
G.L. 1812

Date

7/17/2014

Run Number

One

Depth Driller

3386

Depth Logger

3387

Bottom Logged Interval

3386

Top Log Interval

850

Casing Driller

8.625 @ 883

Casing Logger

880

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2900

Density / Viscosity

9.2 51

pH / Fluid Loss

10.0 7.8

Source of Sample

Flowline

Rm @ Meas. Temp

1.10 @ 84

Rmf @ Meas. Temp

0.83 @ 84

Rmc @ Meas. Temp

1.49 @ 84

Source of Rmf / Rmc

Charts

Rm @ BHT

0.84 @ 110

Operating Rig Time

4 Hours

Max Rec. Temp. F

110

Equipment Number

15

Location

Hays

Recorded By

D.Kerr

Witnessed By

Adam Folk

<<< 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

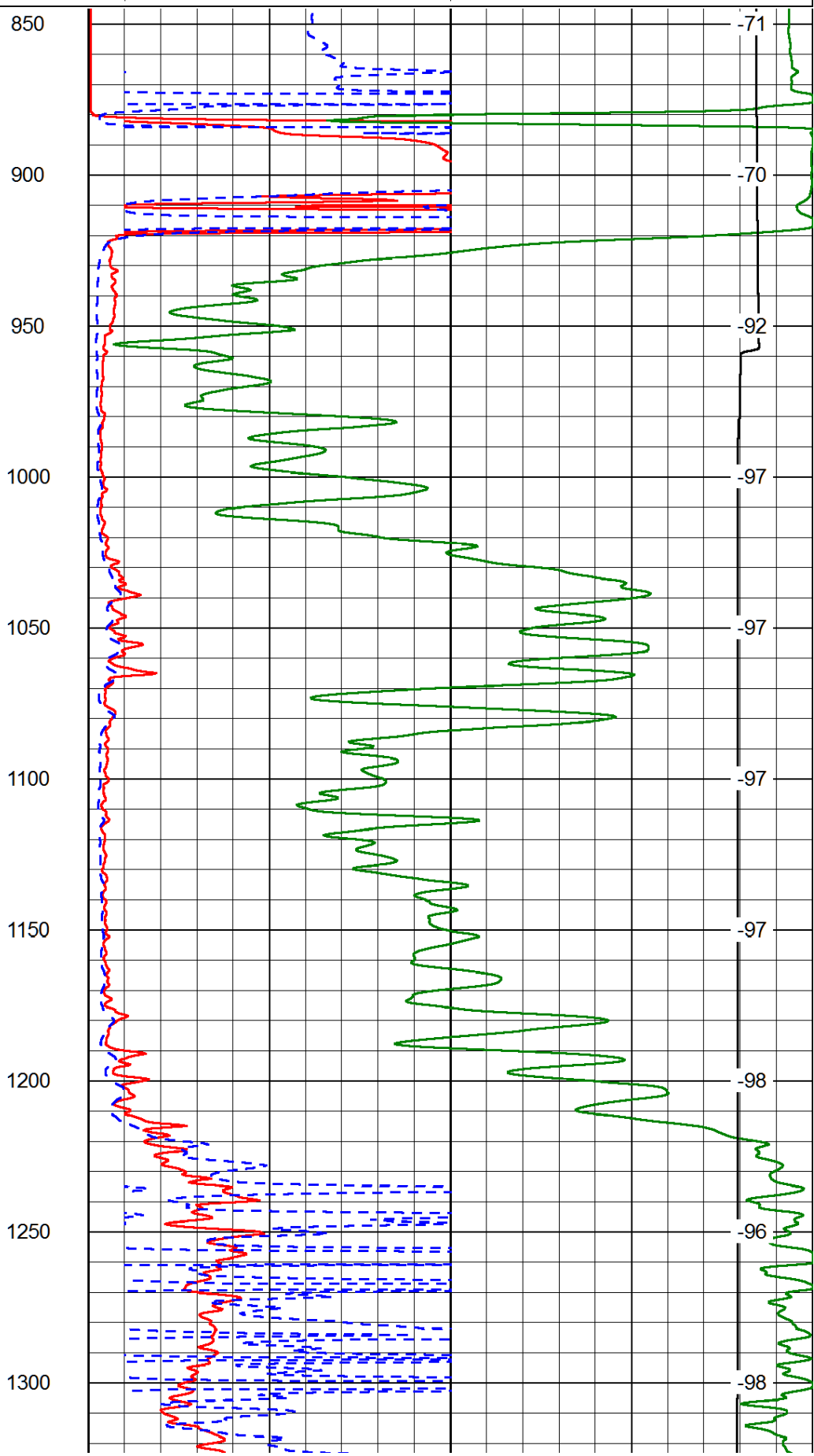
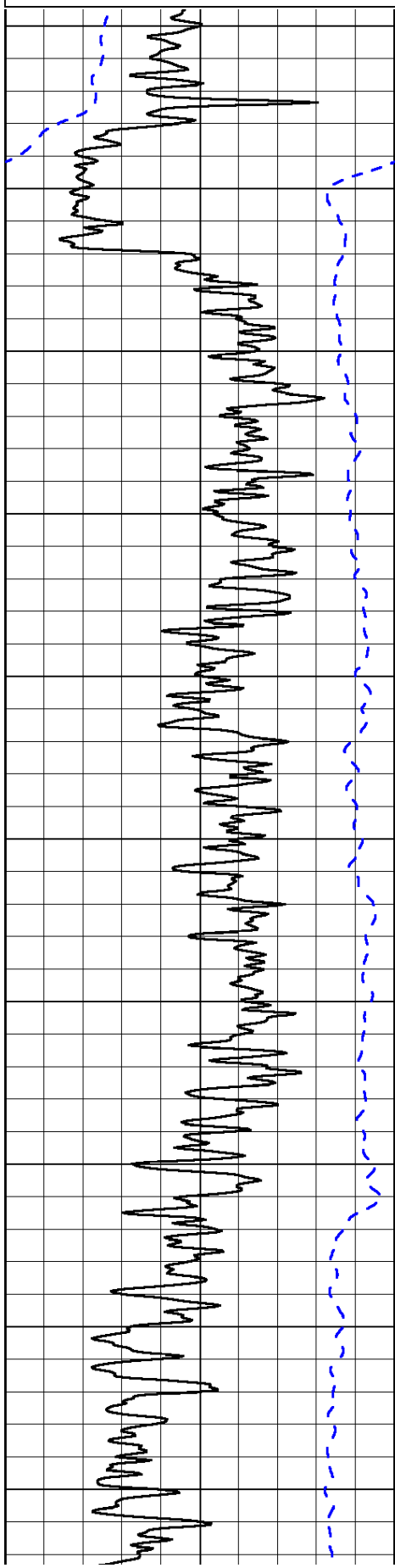
Paradise KS, South on Paradise RD to 180 ST,
2 1/4 South, 3/4 South and East Into

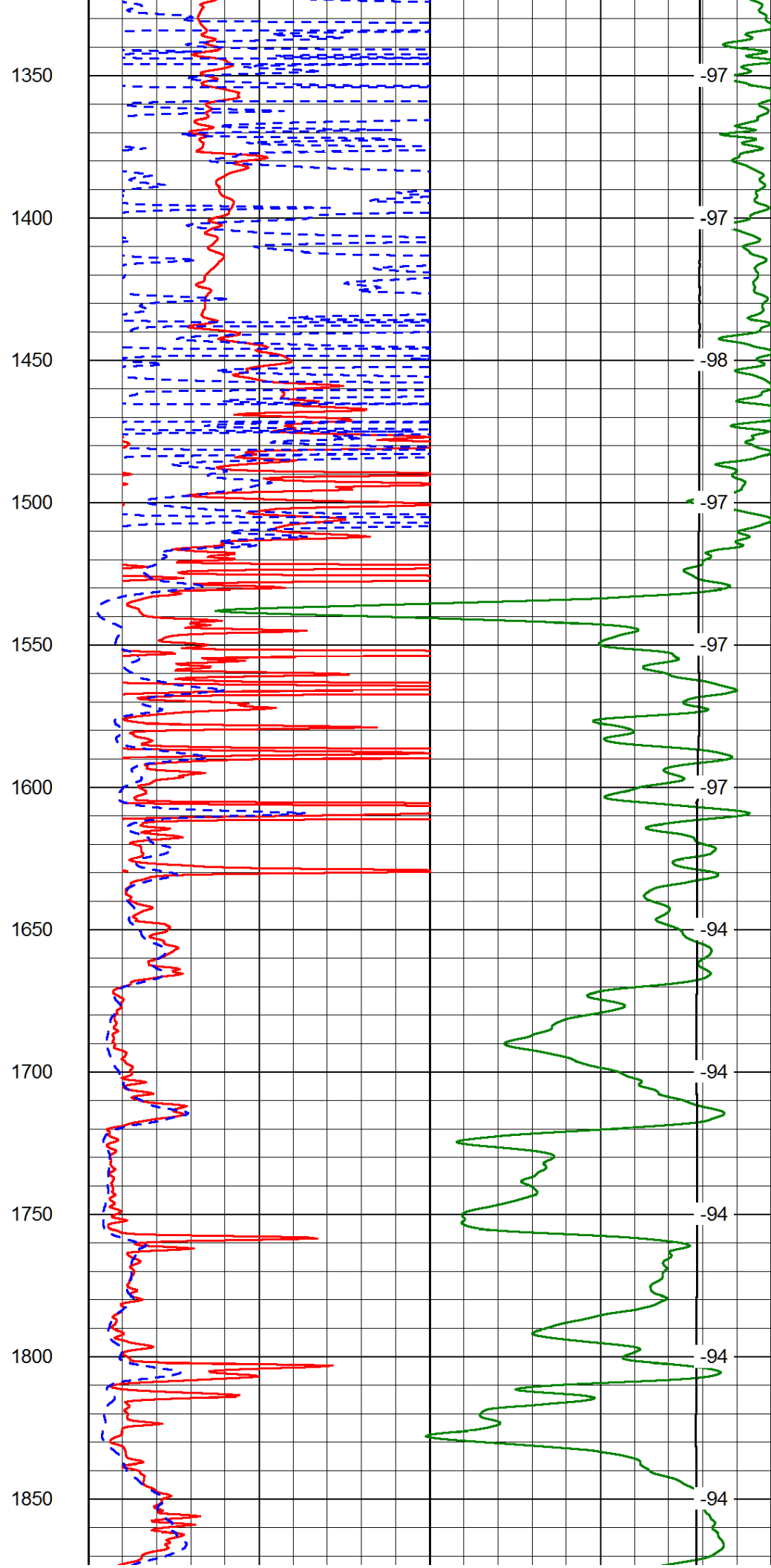
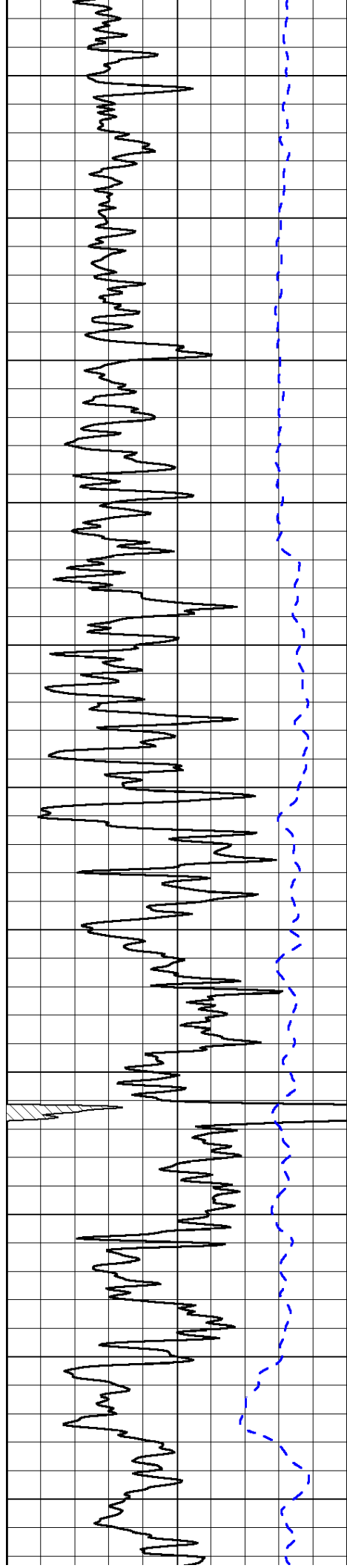
Database File: americanwarrior_eulert_20_35hd.db
Dataset Pathname: DIL/awstk
Presentation Format: dil2in
Dataset Creation: Thu Jul 17 15:18:02 2014
Charted by: Depth in Feet scaled 1:600

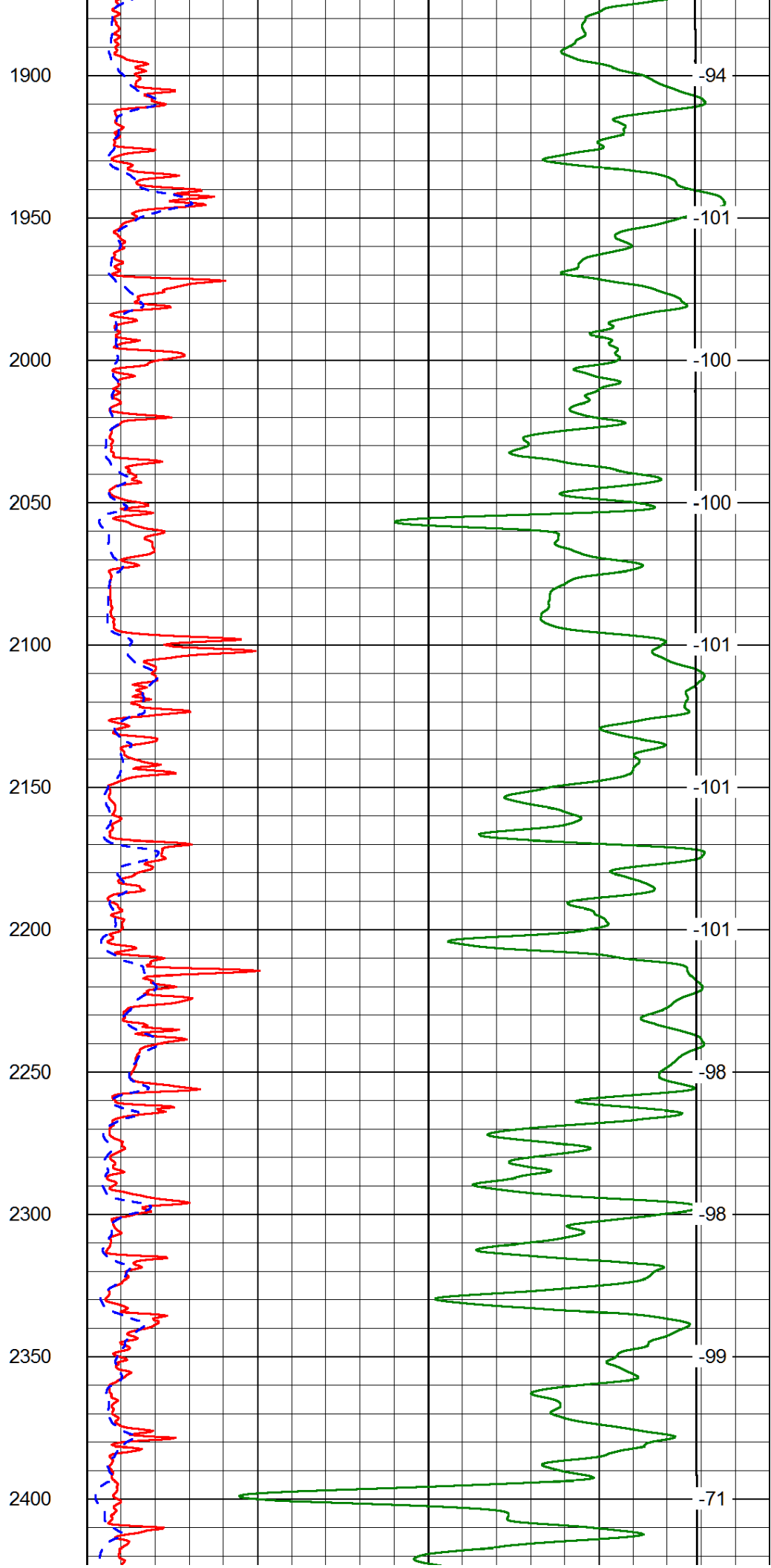
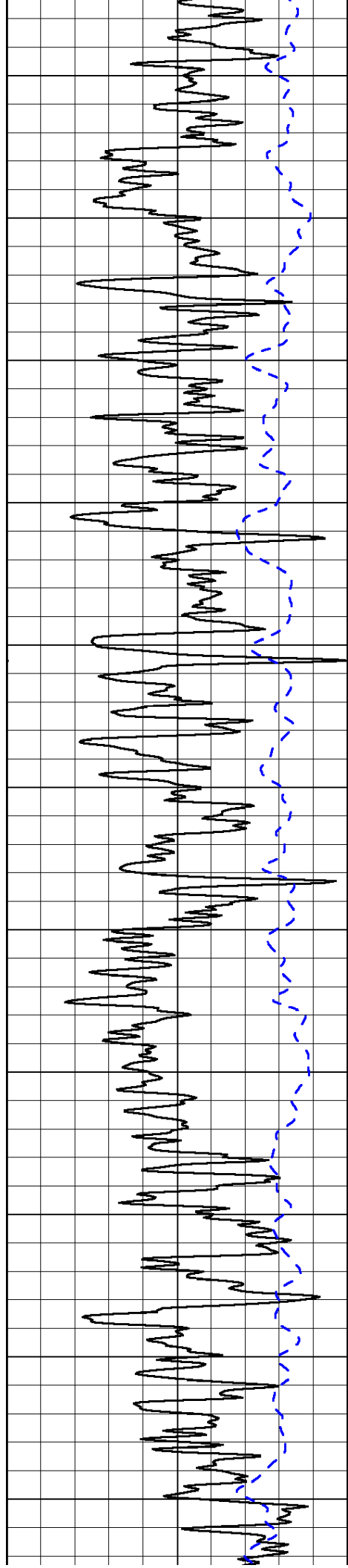
0	Gamma Ray	150
-200	SP (mV)	0

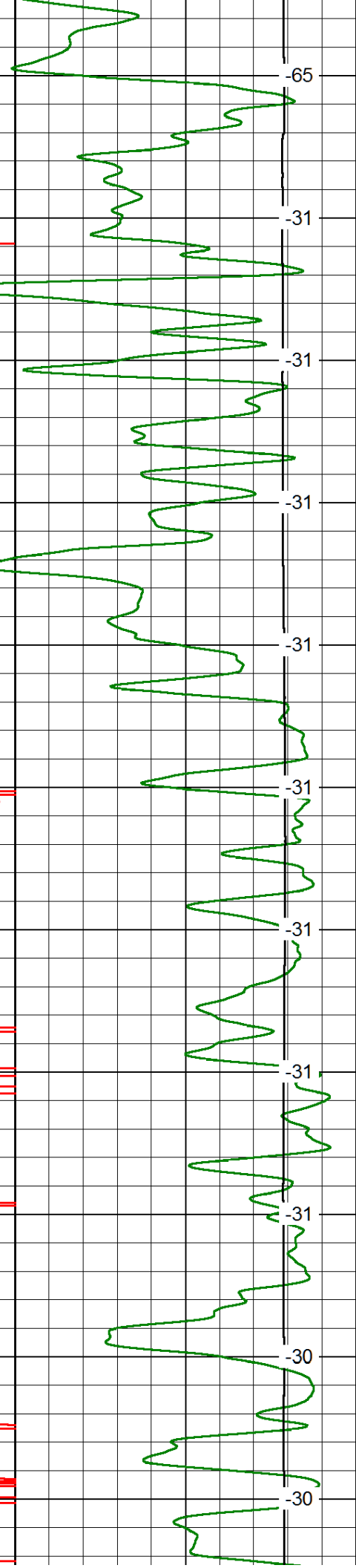
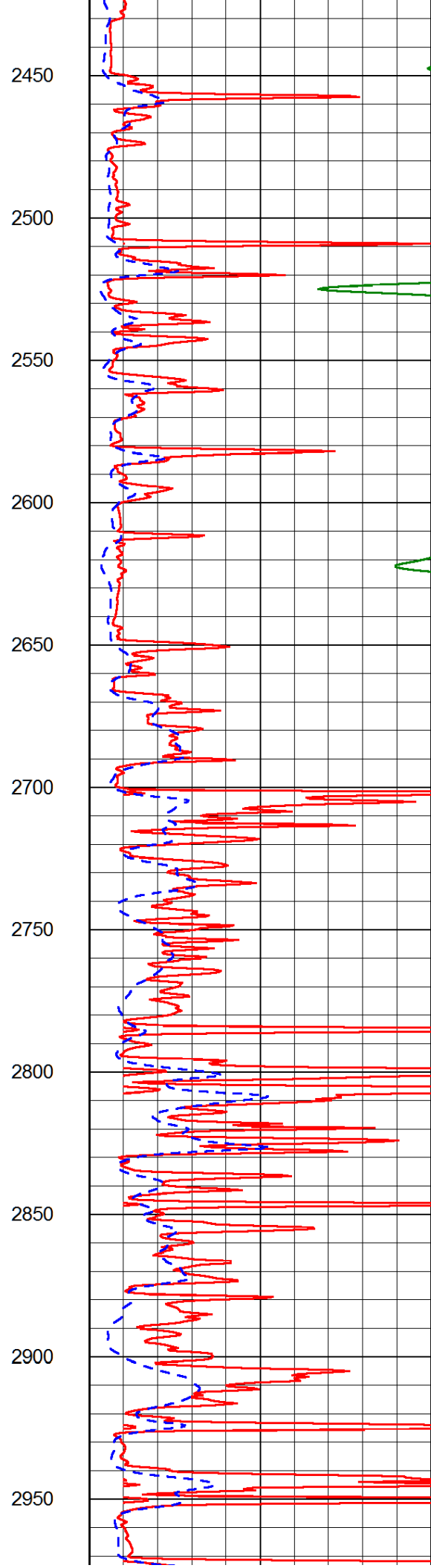
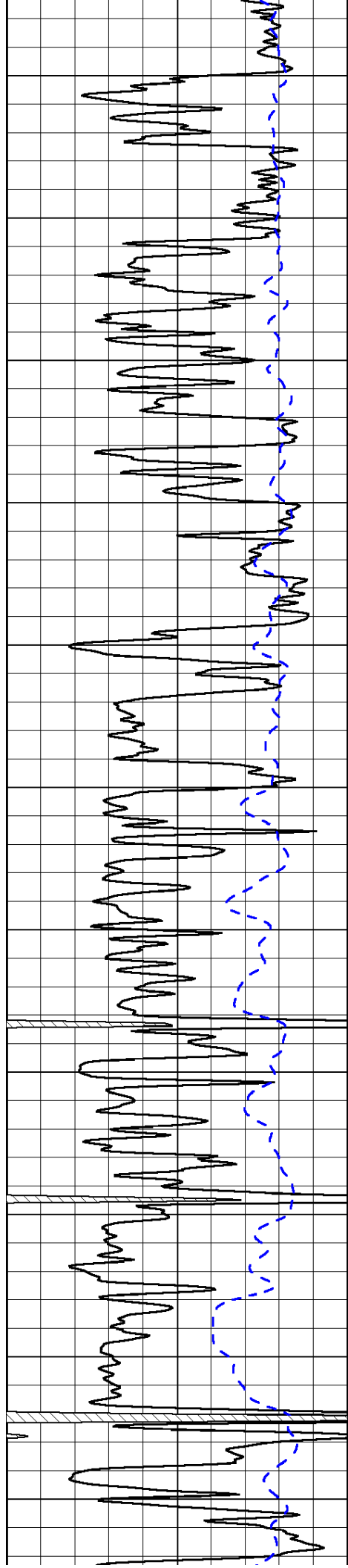
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

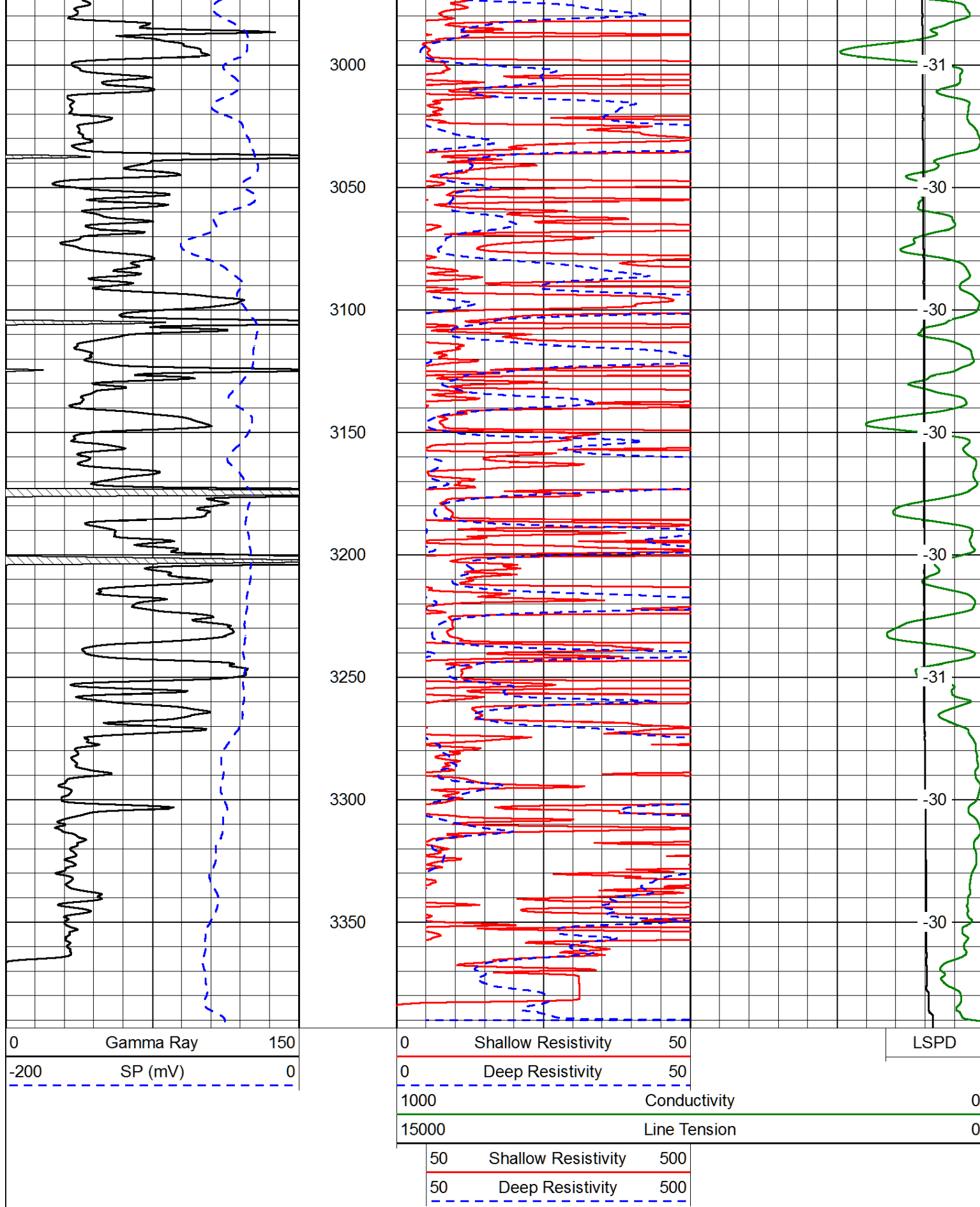
LSPD







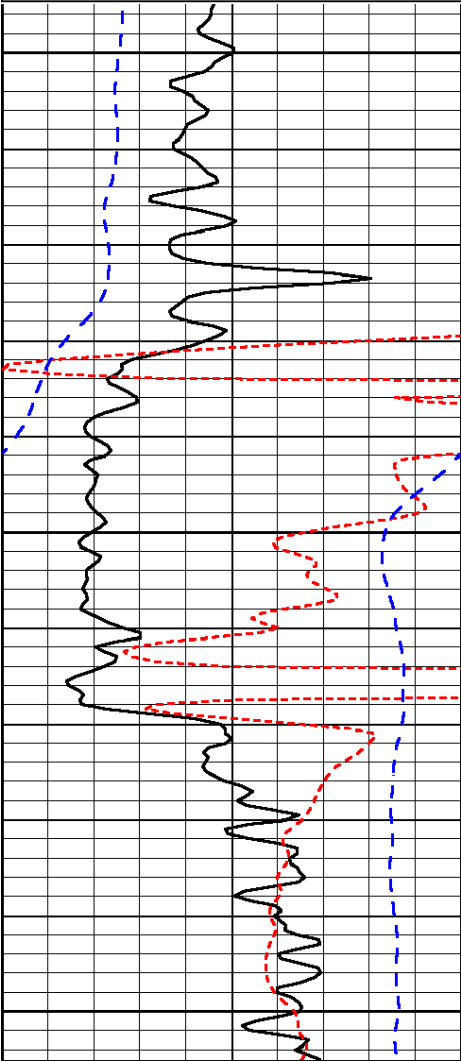




Database File: americanwarrior_eulert_20_35hd.db
 Dataset Pathname: DIL/awstk
 Presentation Format: dil
 Dataset Creation: Thu Jul 17 15:18:02 2014
 Charted by: Depth in Feet scaled 1:240

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
		LSPD

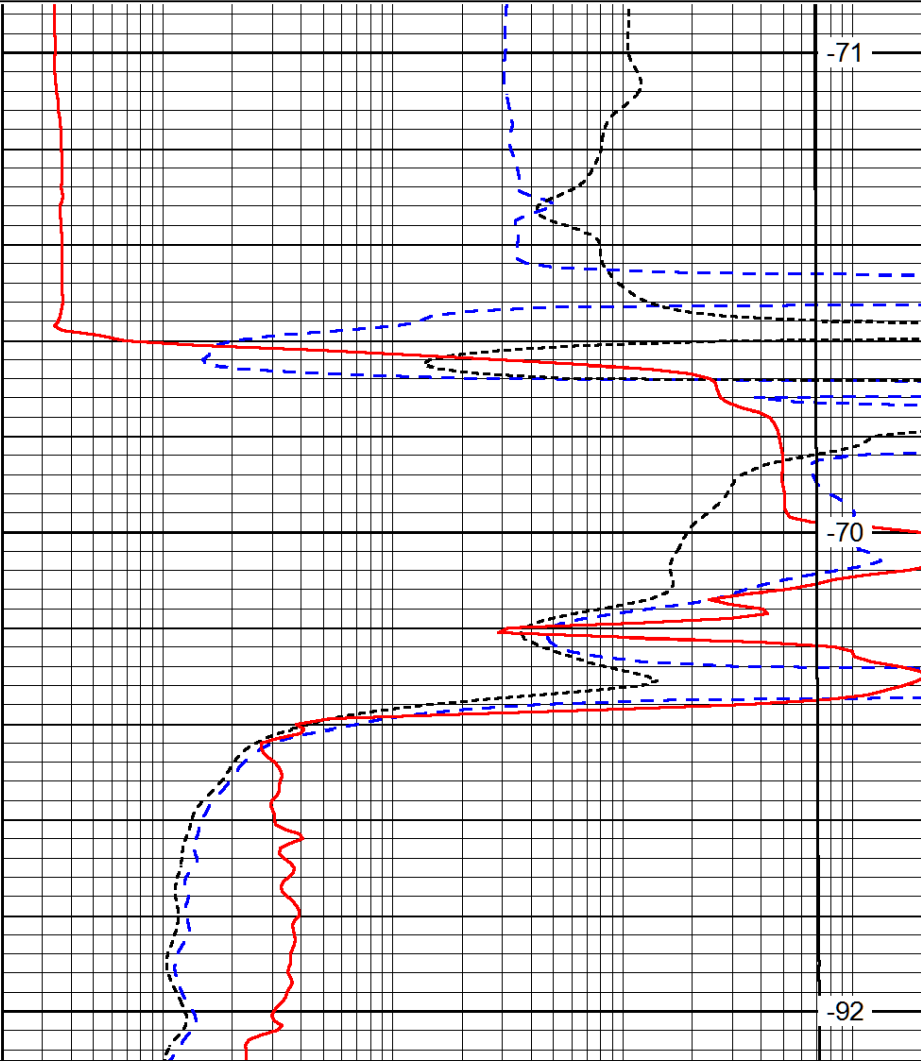


850

900

950

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



-71

-70

-92

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
		LSPD

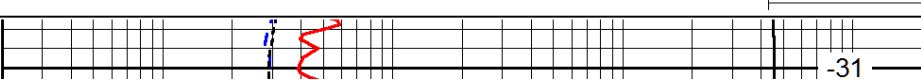
Database File: americanwarrior_eulert_20_35hd.db
Dataset Pathname: DIL/awstk
Presentation Format: dil
Dataset Creation: Thu Jul 17 15:18:02 2014
Charted by: Depth in Feet scaled 1:240

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

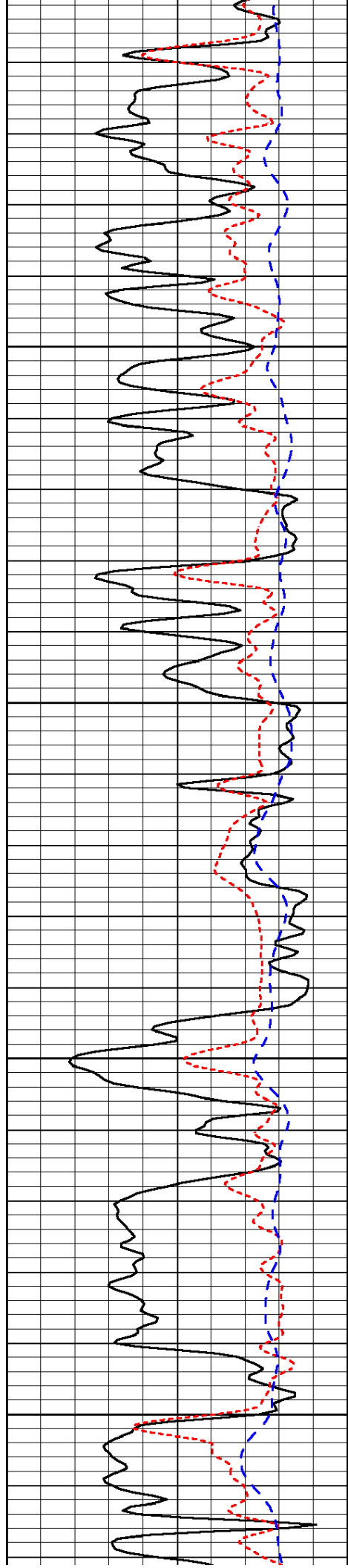
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
		LSPD



2500



-31

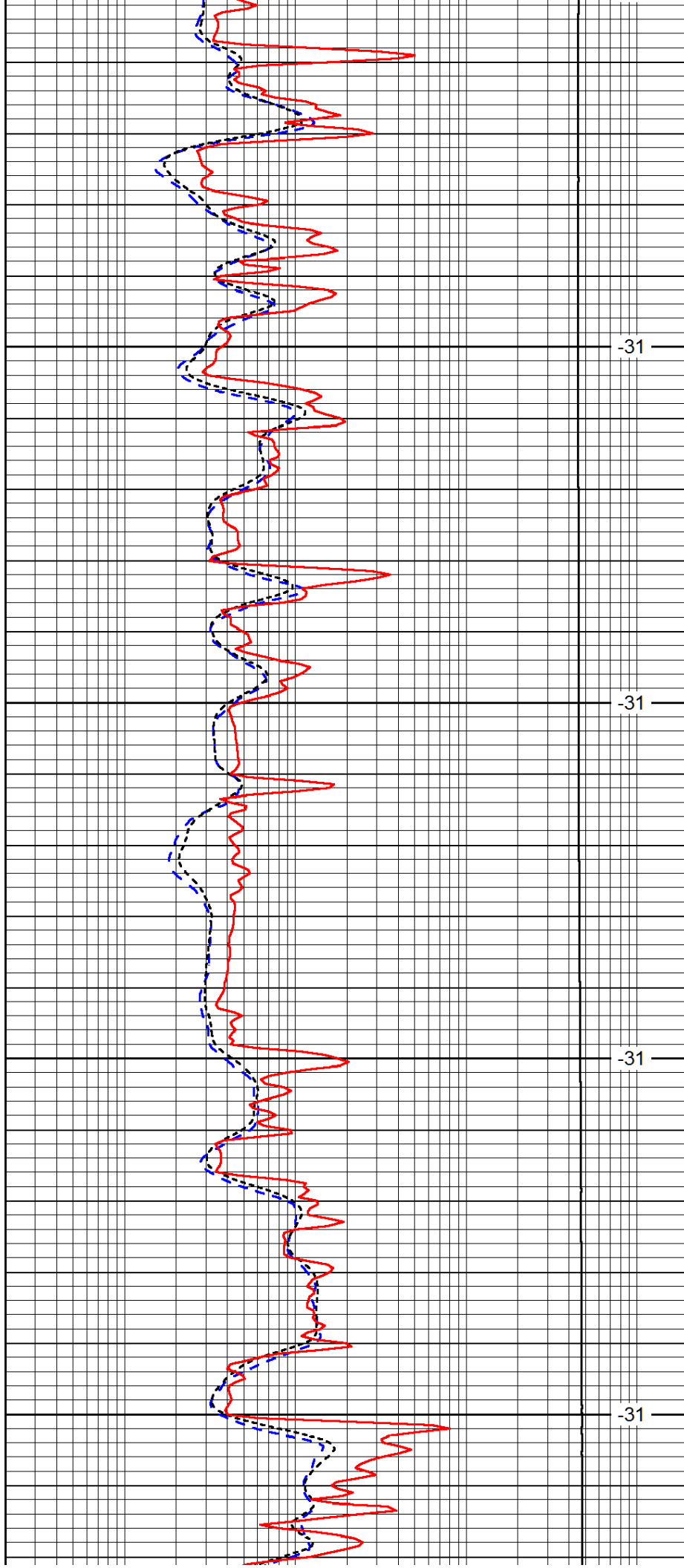


2550

2600

2650

2700

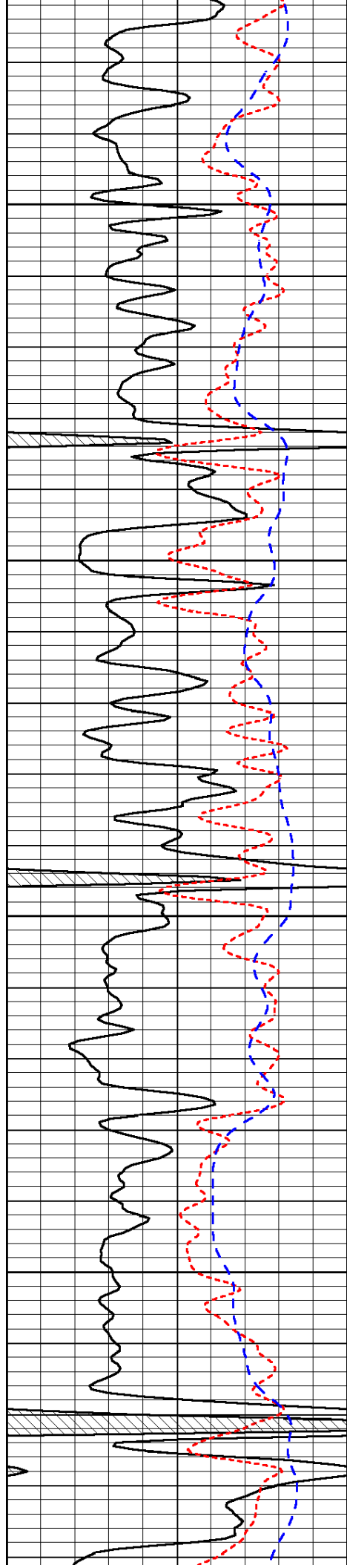


-31

-31

-31

-31

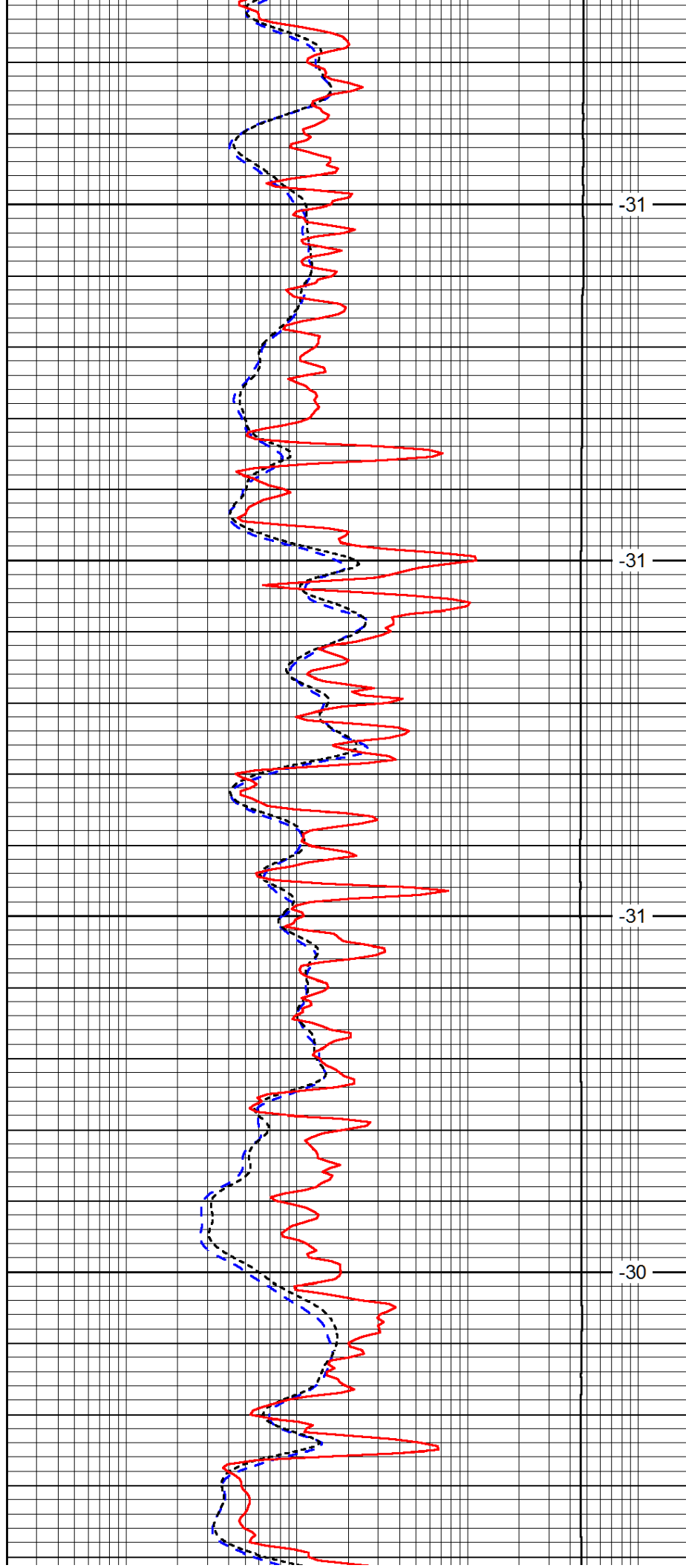


2750

2800

2850

2900

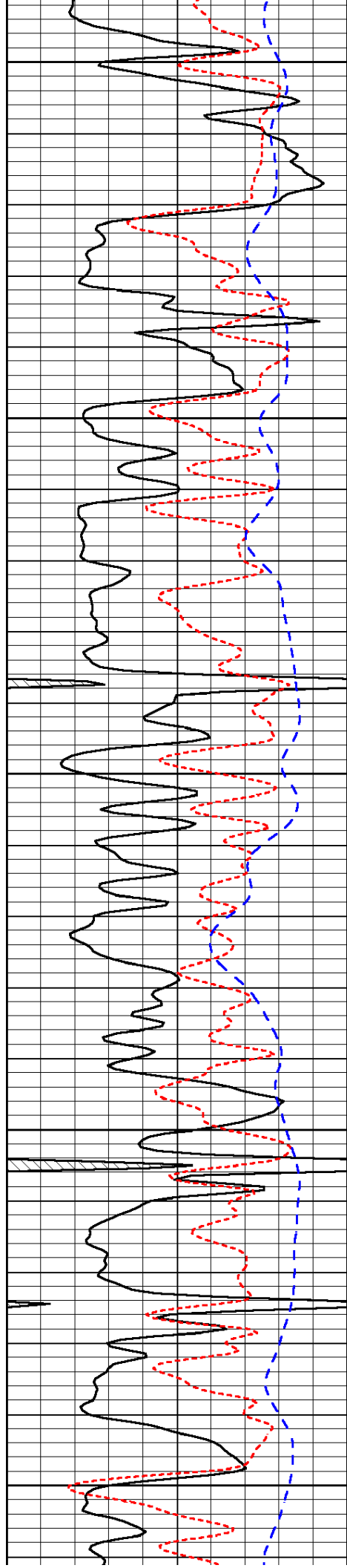


-31

-31

-31

-30



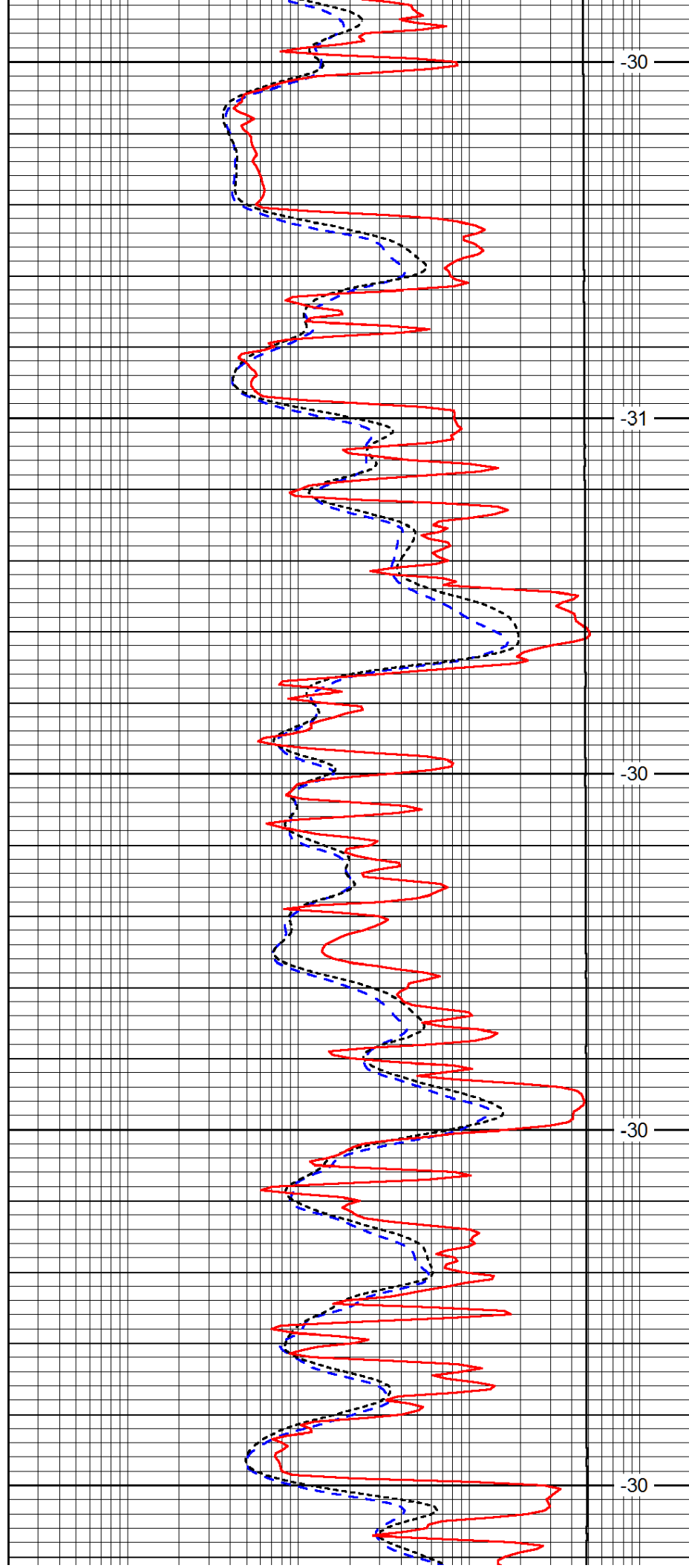
2950

3000

3050

3100

3150



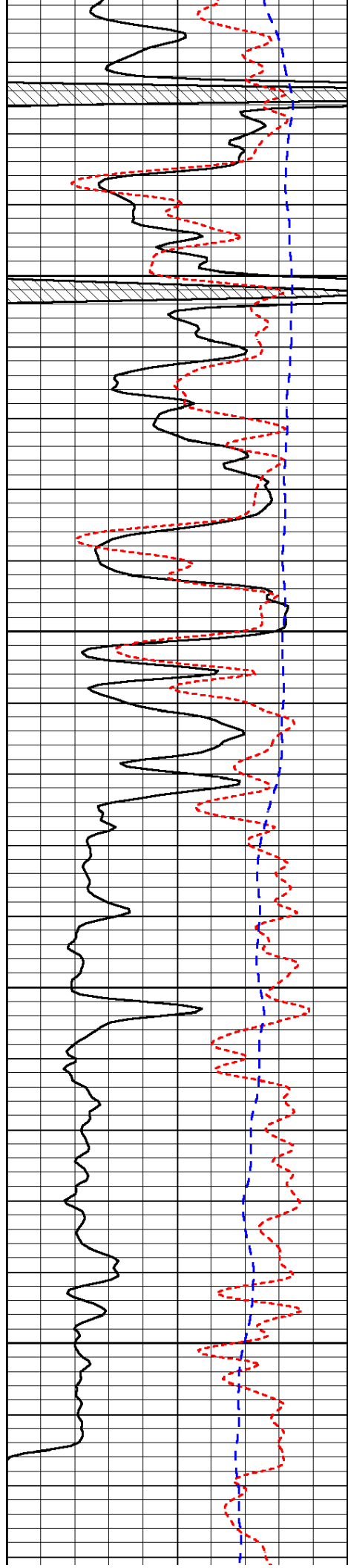
-30

-31

-30

-30

-30

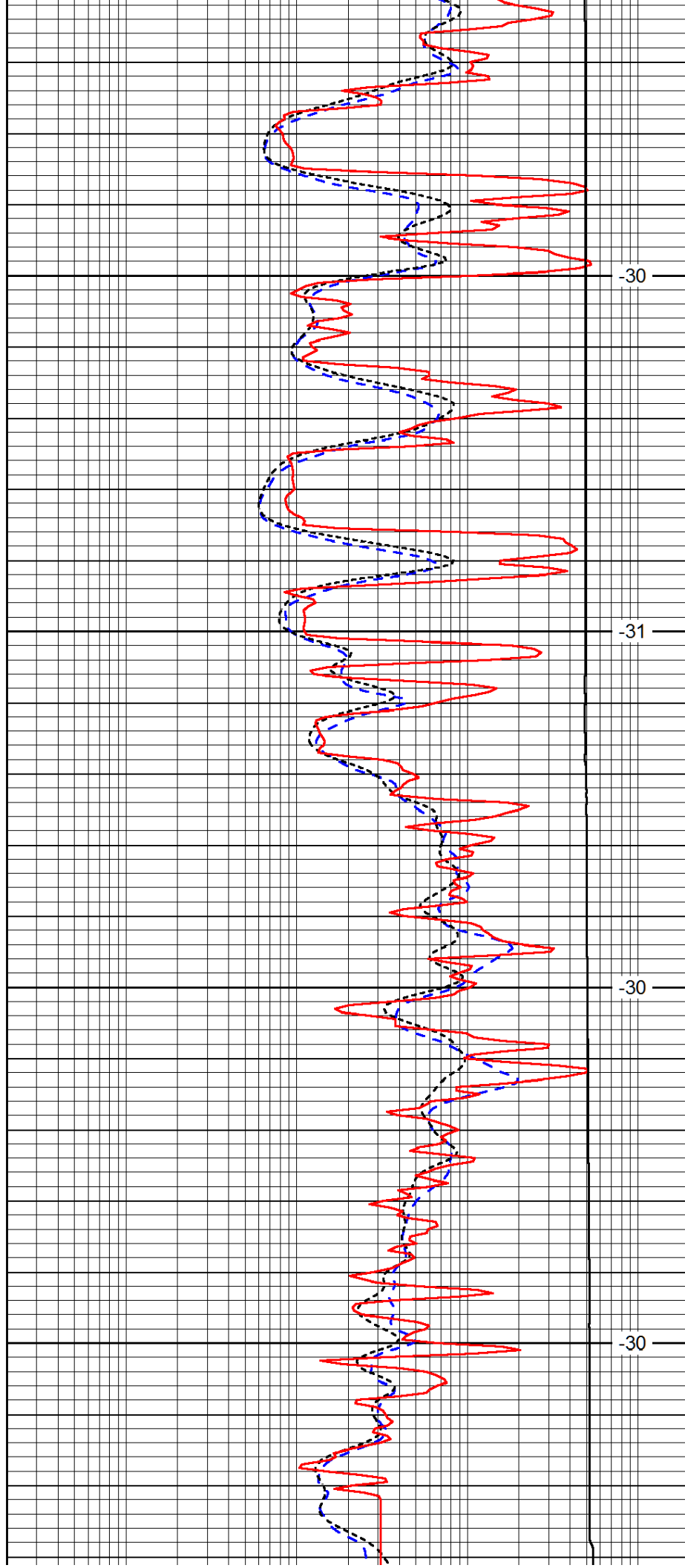


3200

3250

3300

3350



-30

-31

-30

-30

