



Dual Induction Log

Pioneer Energy Services

API No.

15-101-22,465-00-00

Company Larson Engineering, Inc.

Well Shapland A # 1-27

Field Wildcat

County Lane State

Kansas

Location

SW-SW-NE-NW
1190' FNL & 1414' FWL

Other Services
CNL/CDL
MEL

Sec: 27

Twp: 18S

Rge: 28W

Elevation

K.B. 2711
D.F.
G.L. 2704

Permanent Datum
Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2704
7 Ft. Above Perm. Datum

Date

10/29/13

Run Number

One

Depth Driller

4605

Depth Logger

4608

Bottom Logged Interval

4607

Top Log Interval

250

Casing Driller

8.625 @ 276

Casing Logger

273

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3,200

Density / Viscosity

9.3 64

pH / Fluid Loss

11.0 7.6

Source of Sample

Flowline

Rm @ Meas. Temp

.70 @ 66

Rmf @ Meas. Temp

.53 @ 66

Rmc @ Meas. Temp

.95 @ 66

Source of Rmf / Rmc

Charts

Rm @ BHT

.38 @ 122

Operating Rig Time

4 Hours

Max Rec. Temp. F

122

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Vern Schrag

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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 Pioneer Energy Services
www.pioneerres.com
785 625 3858

Dighton Kansas
2 East, 2 South, 1 East, North Into

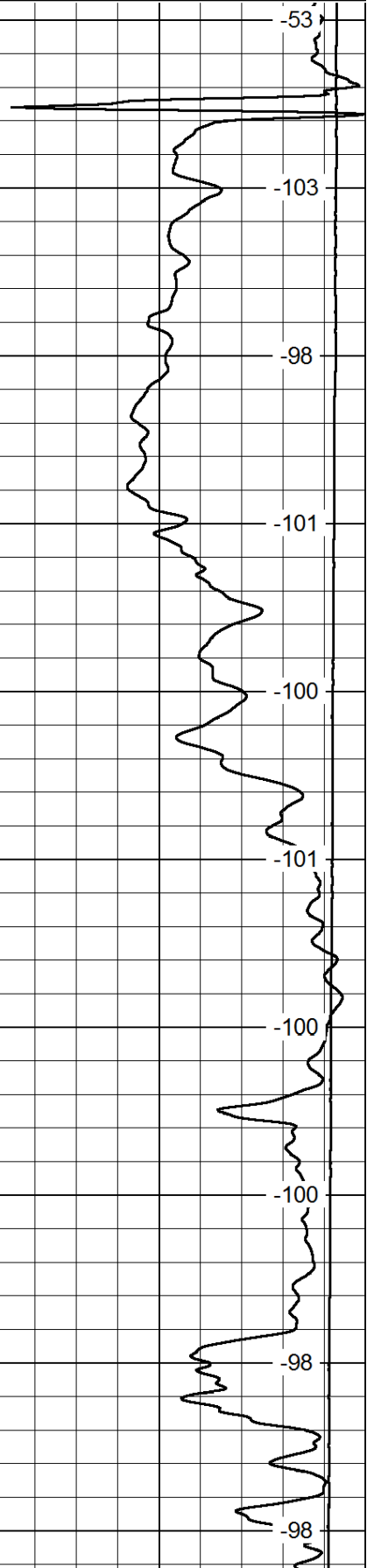
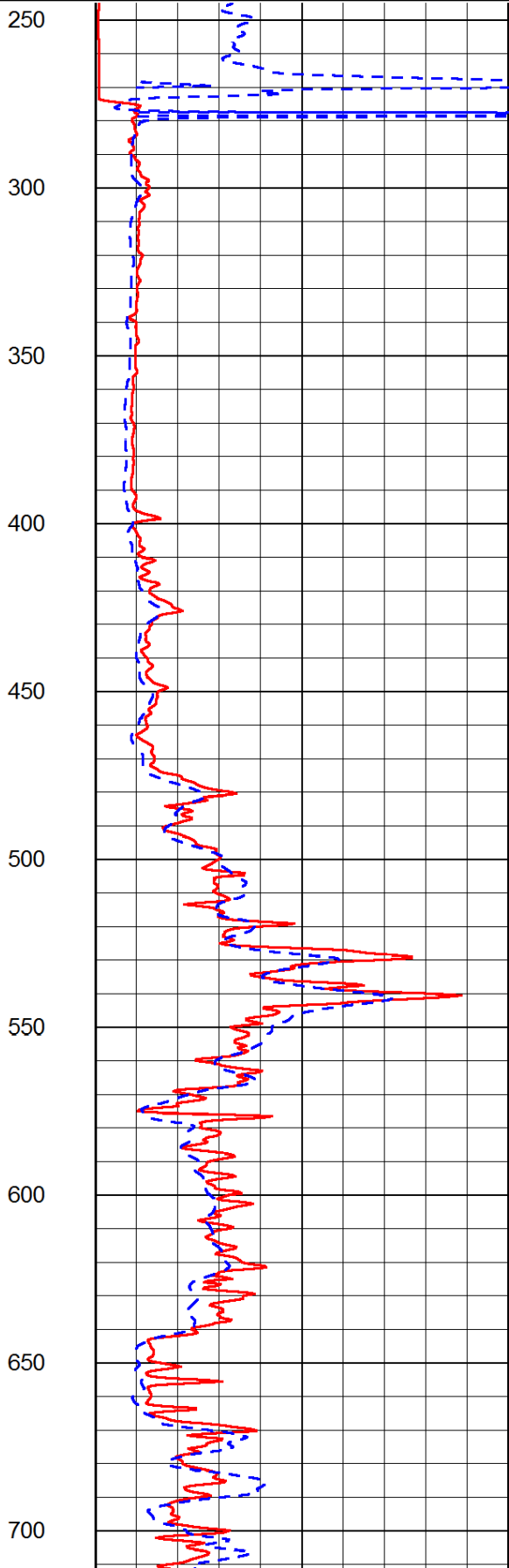
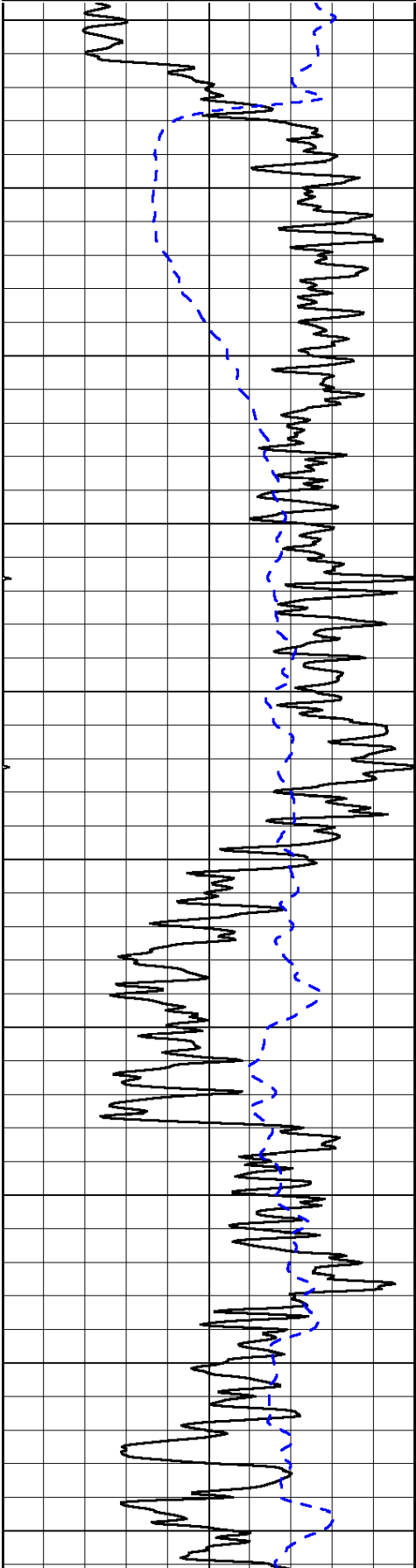
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Presentation Format: dil2in
Dataset Creation: Wed Oct 30 02:13:50 2013
Charted by: Depth in Feet scaled 1:600

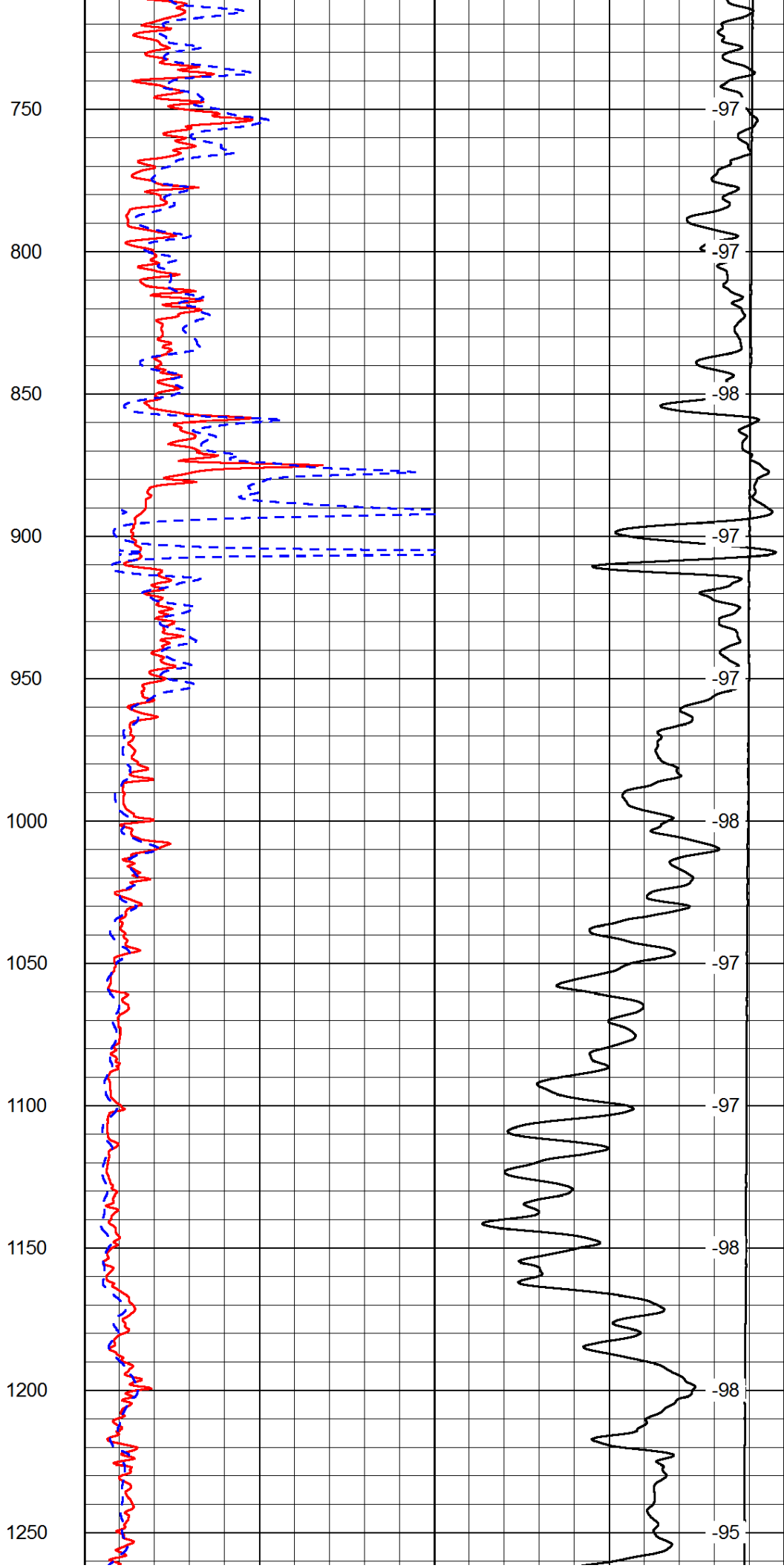
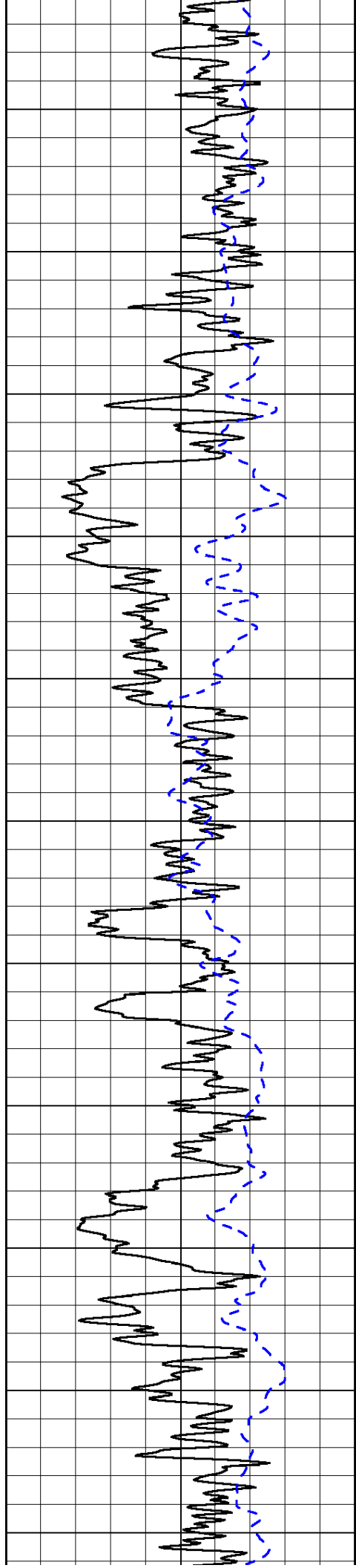
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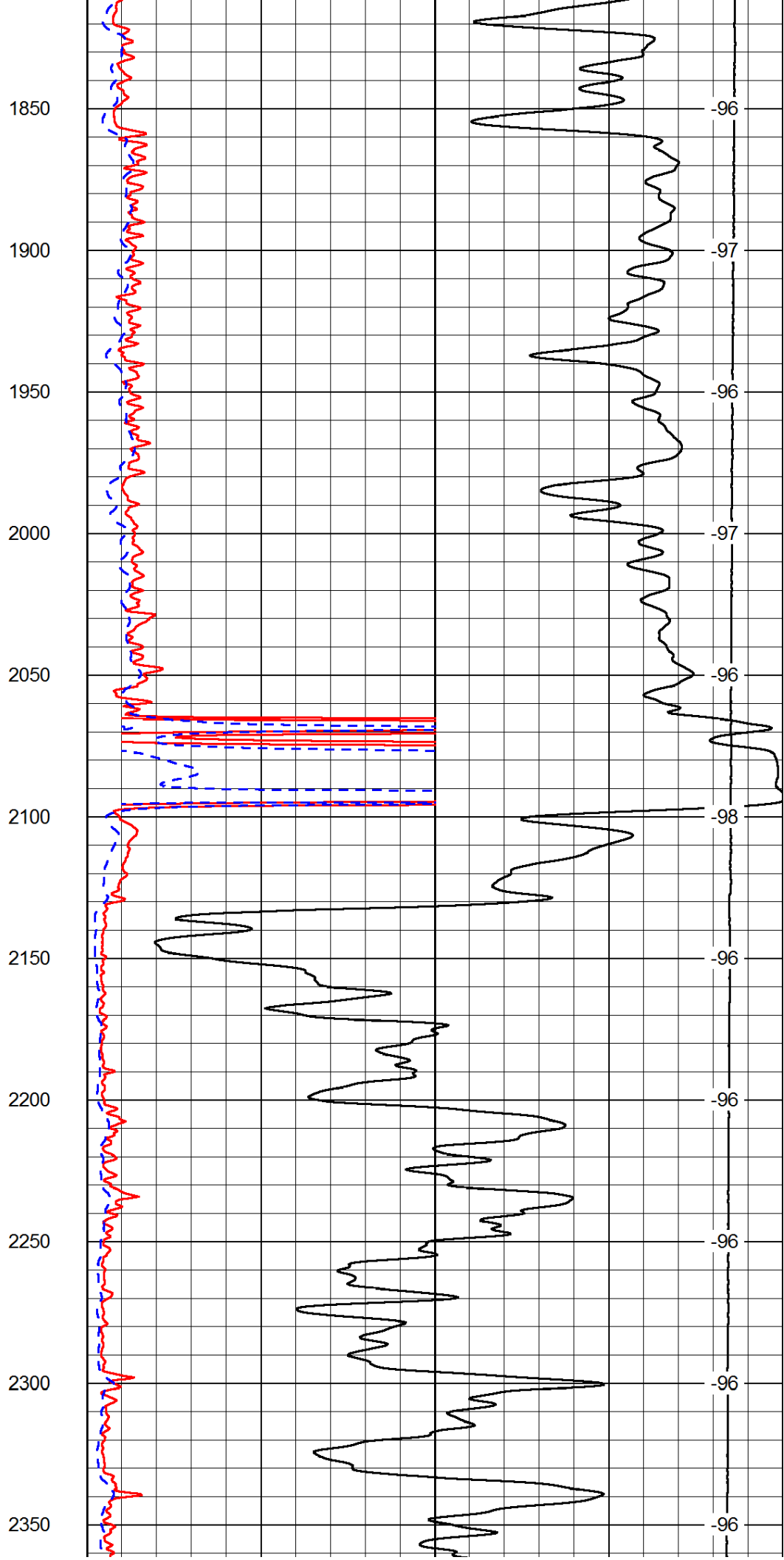
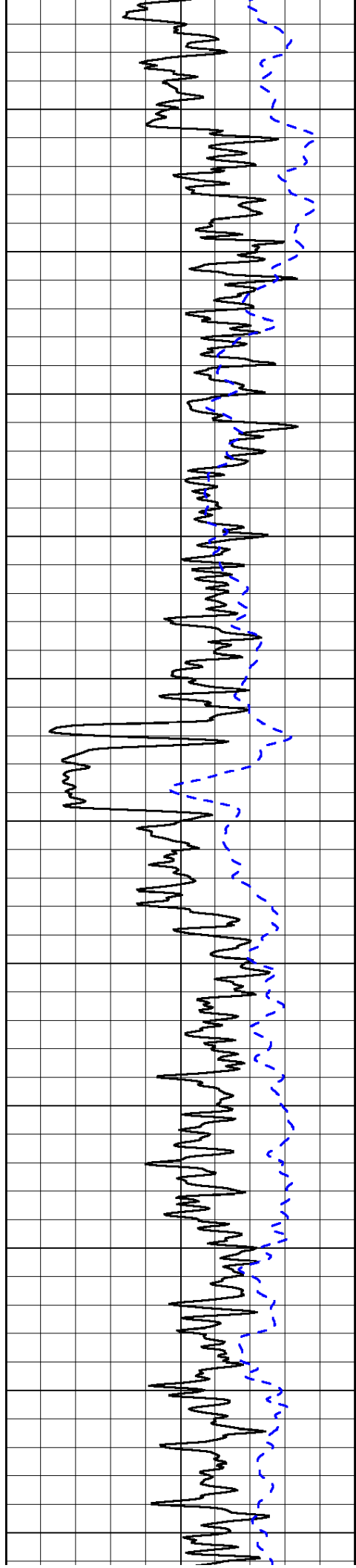
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-200	SP (mV)	0

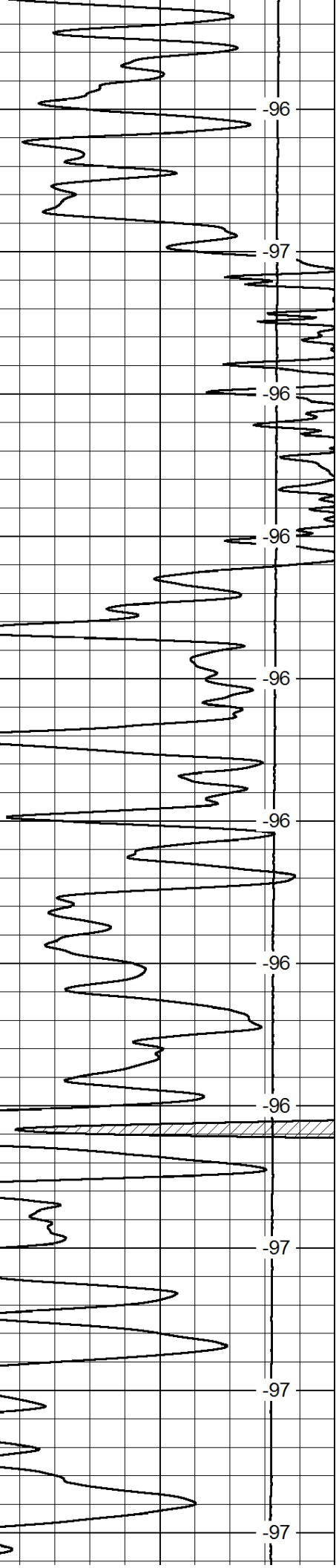
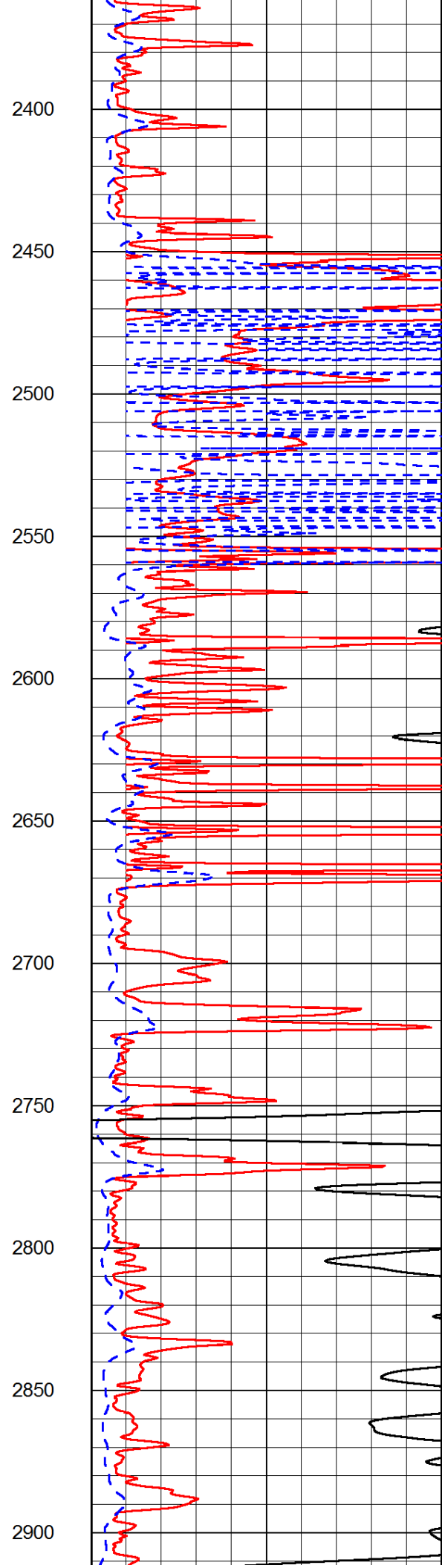
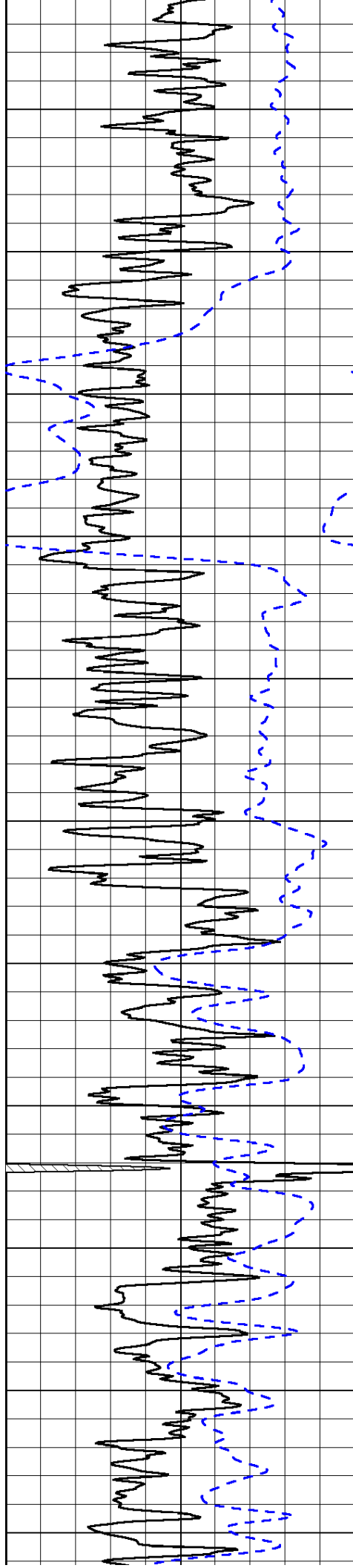
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

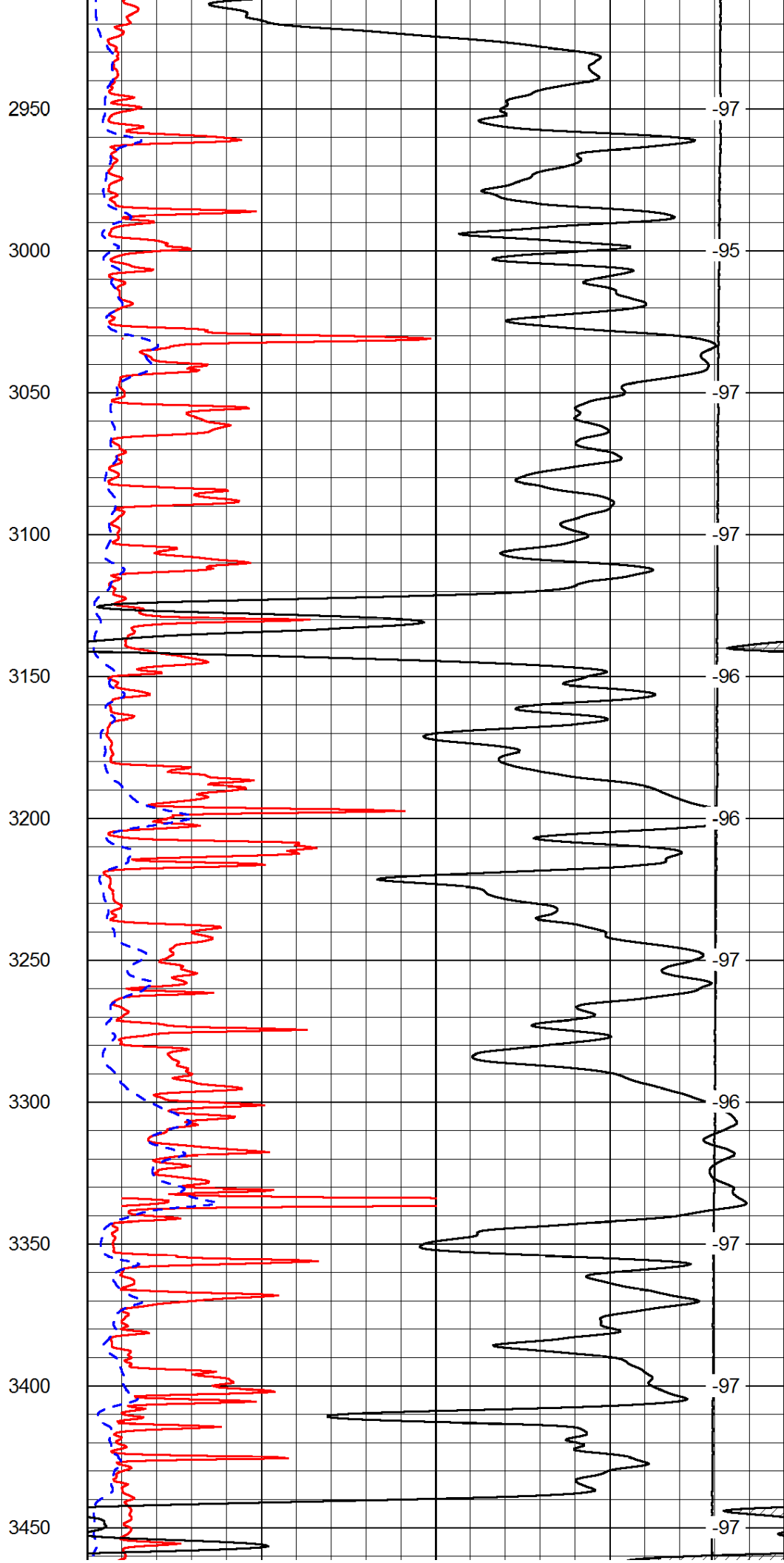
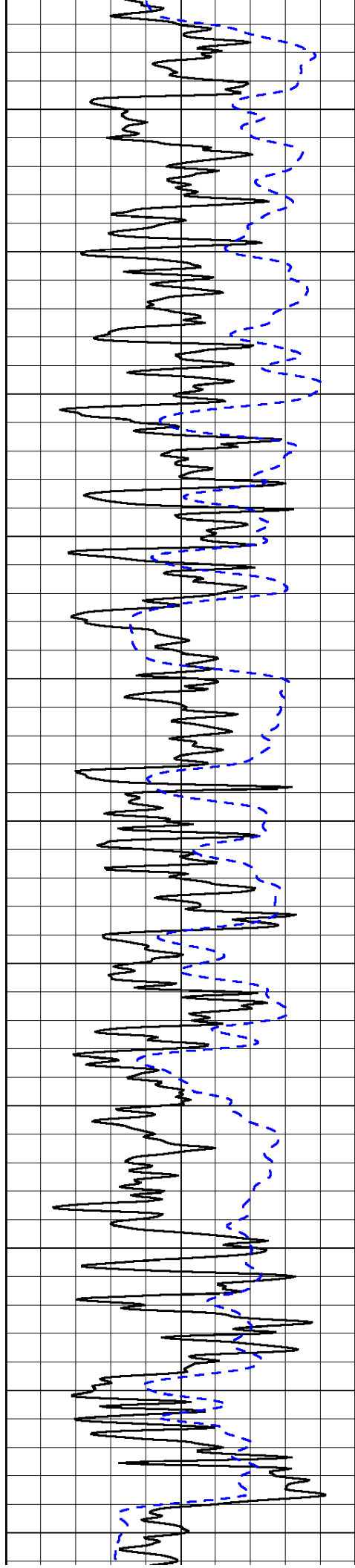
LSPD
0
0

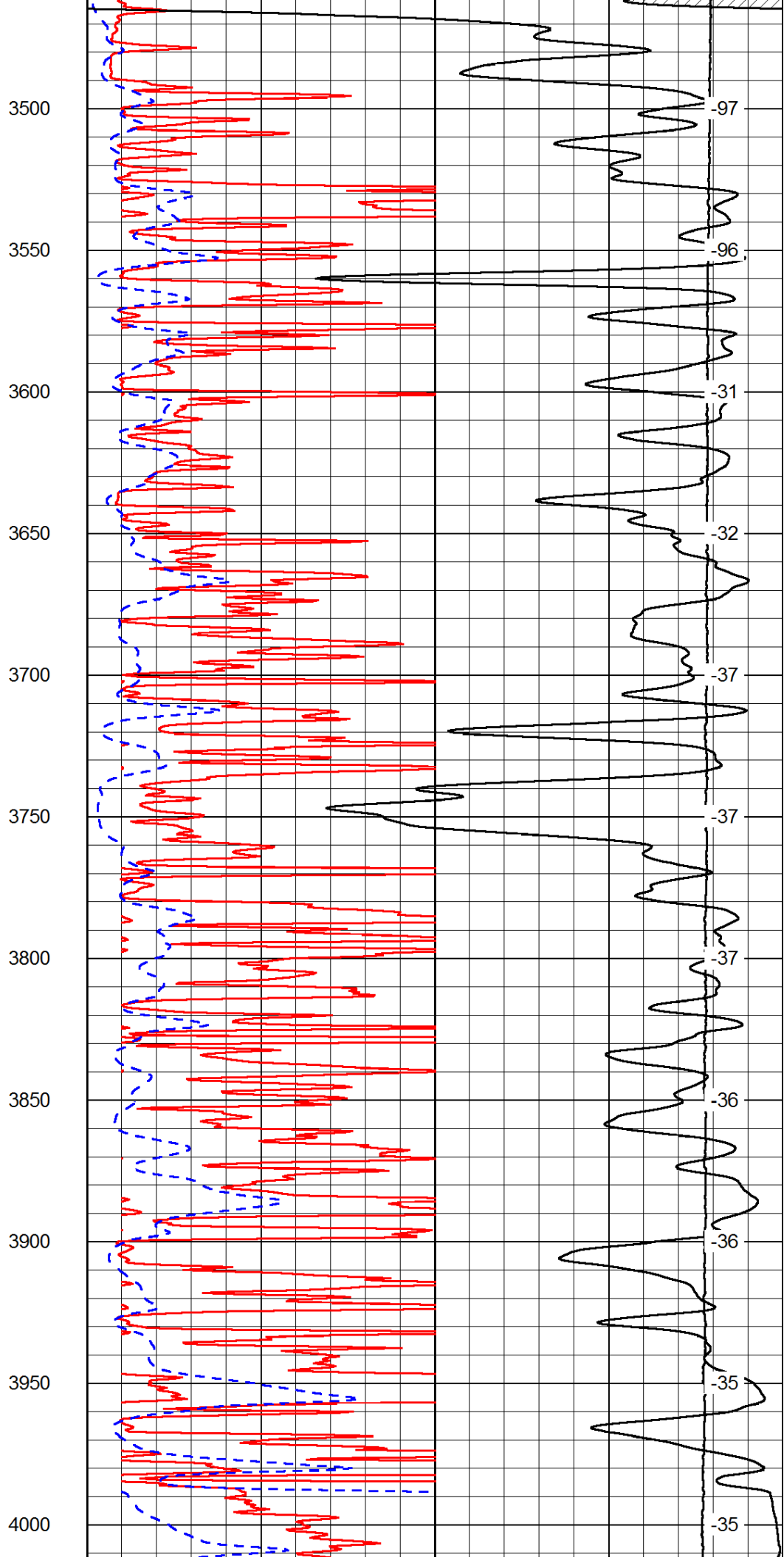
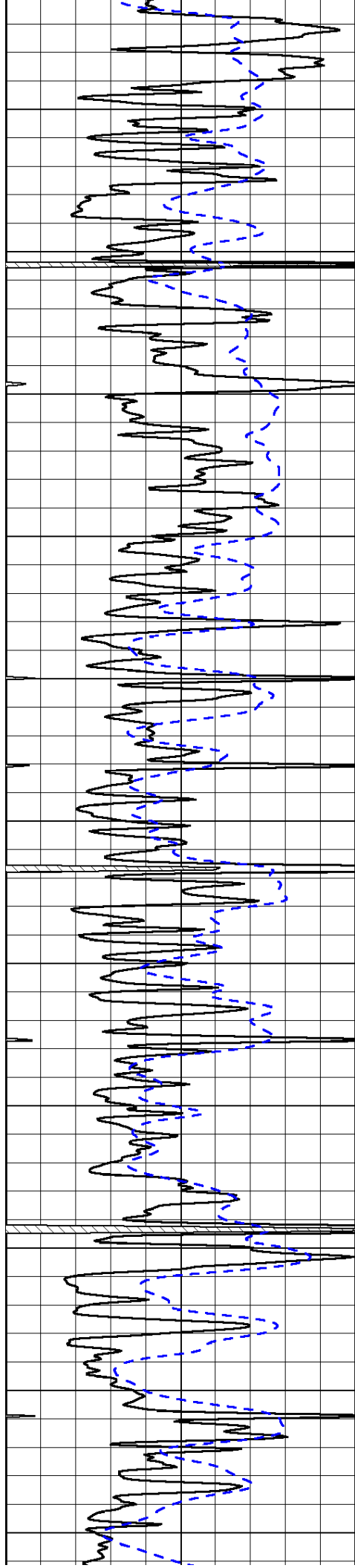


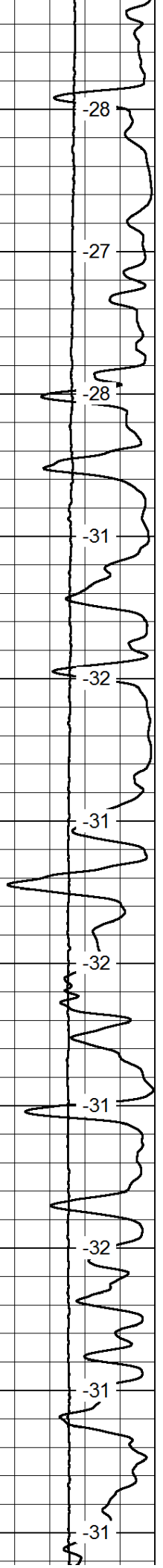
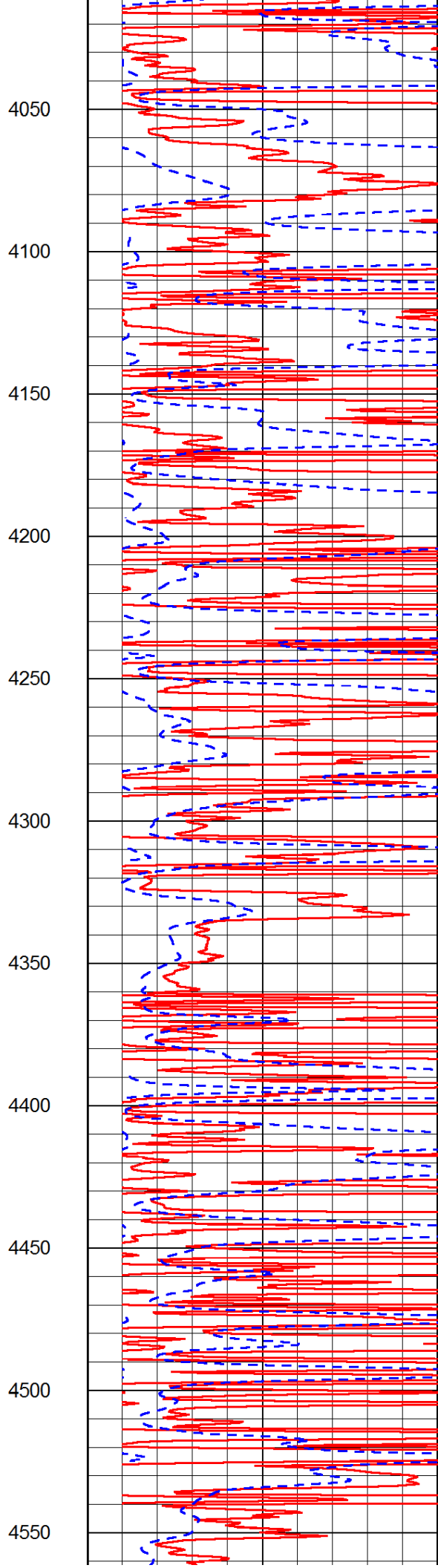
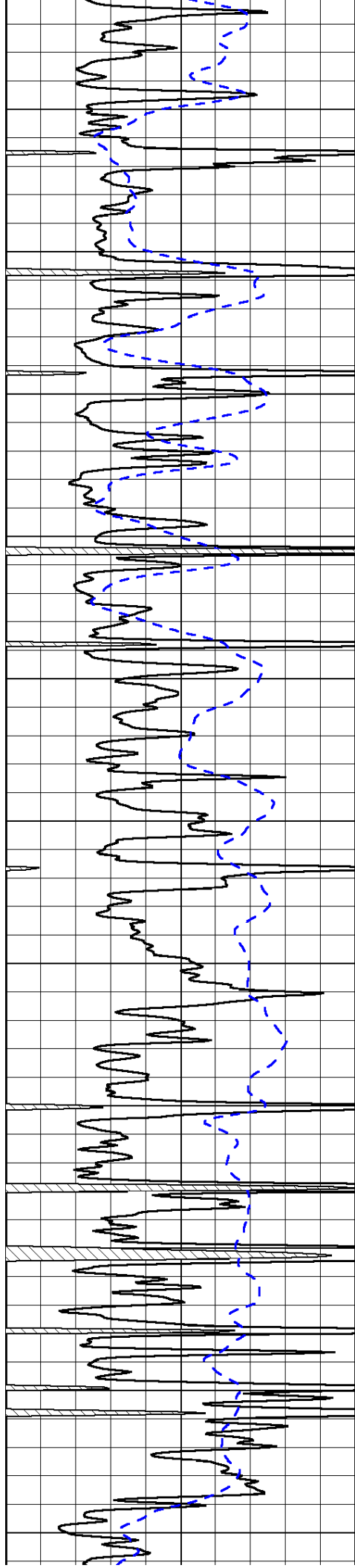


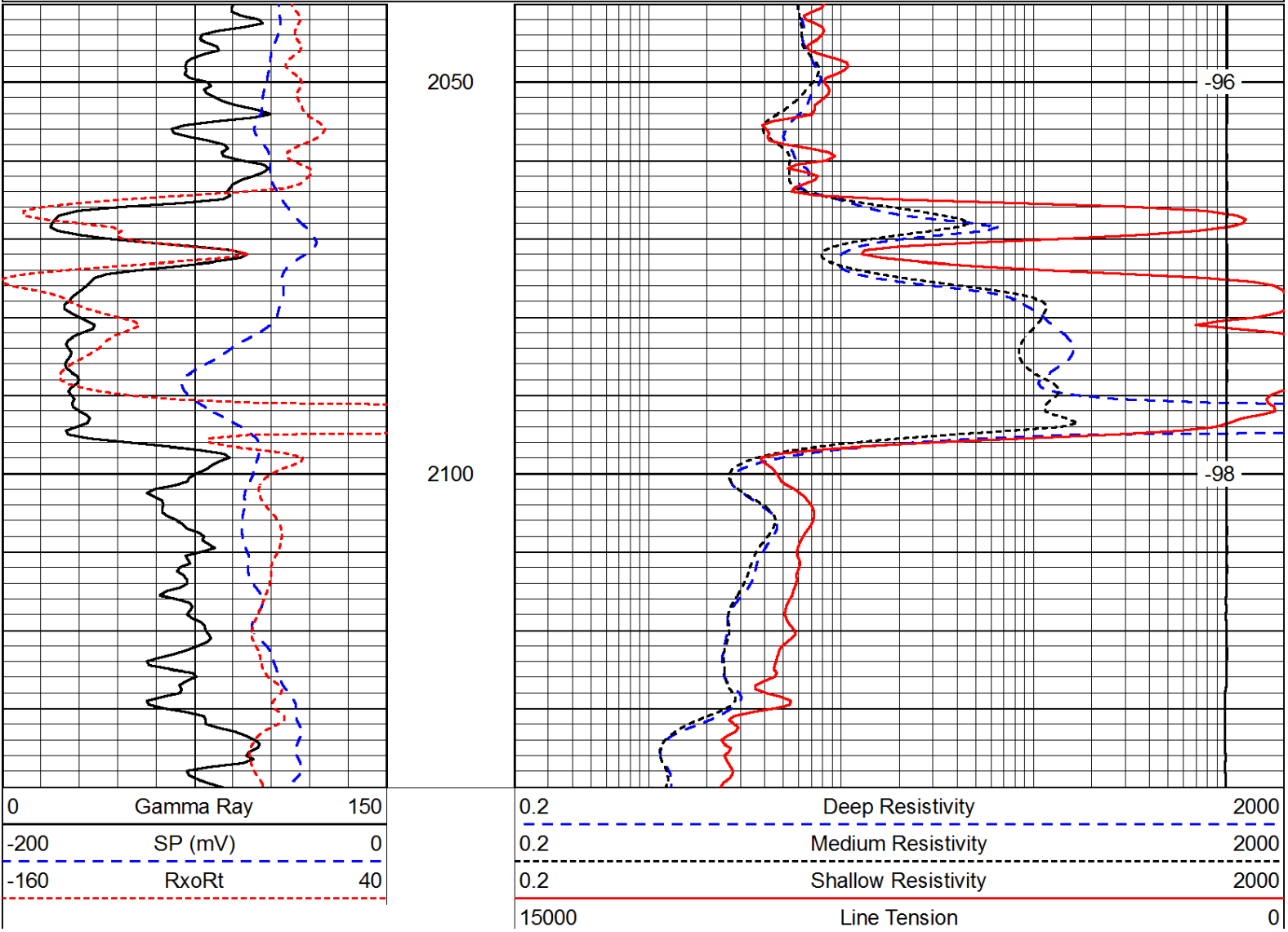
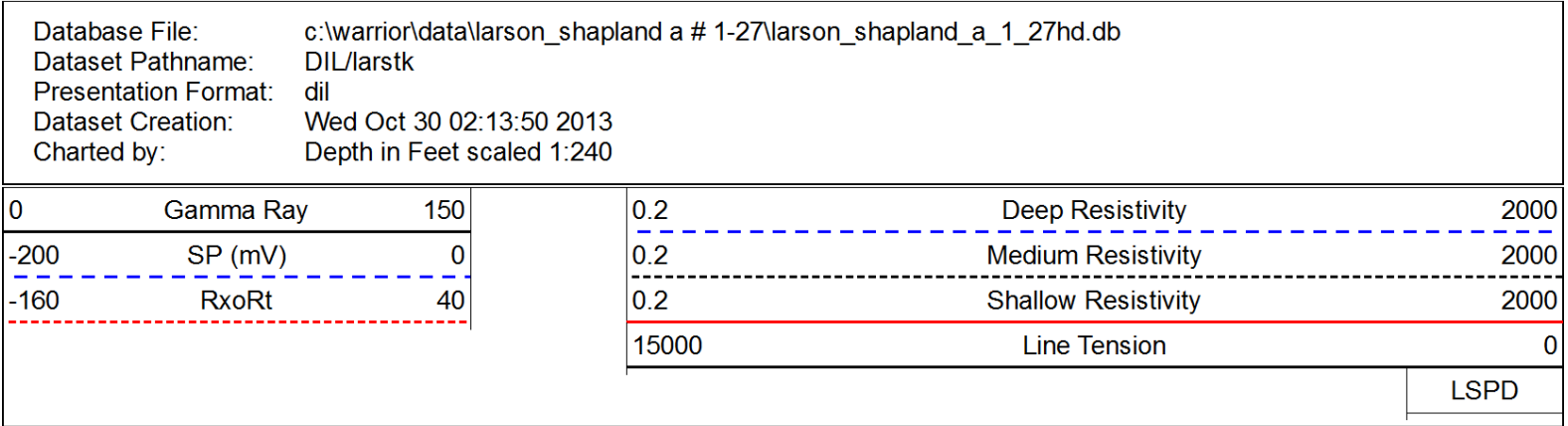
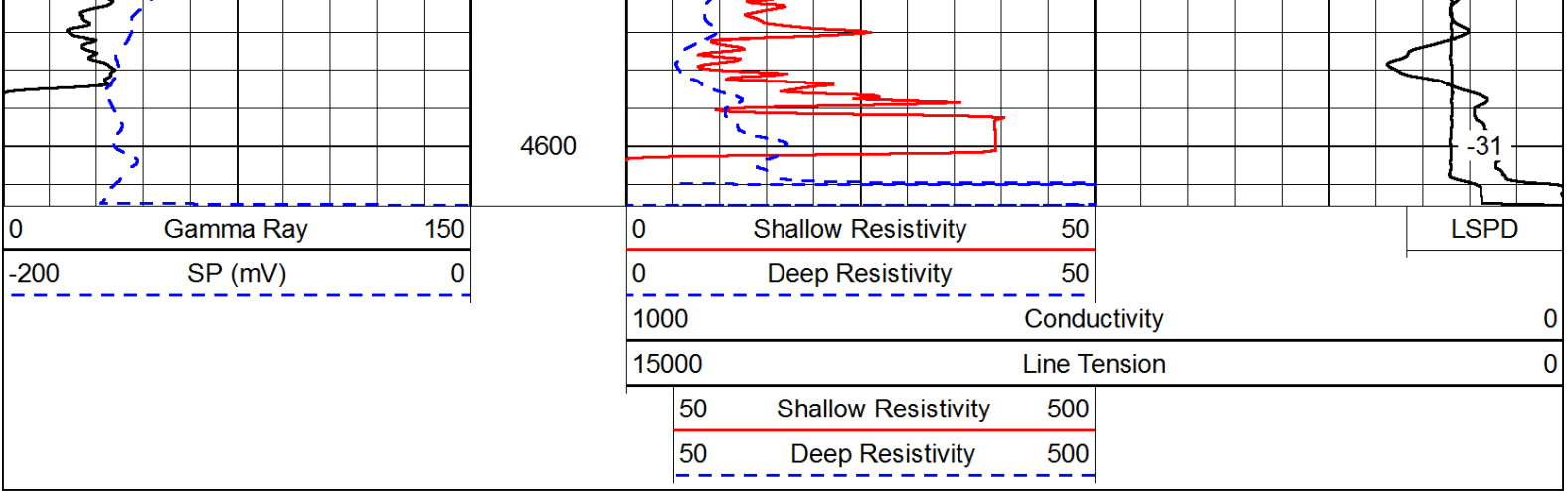










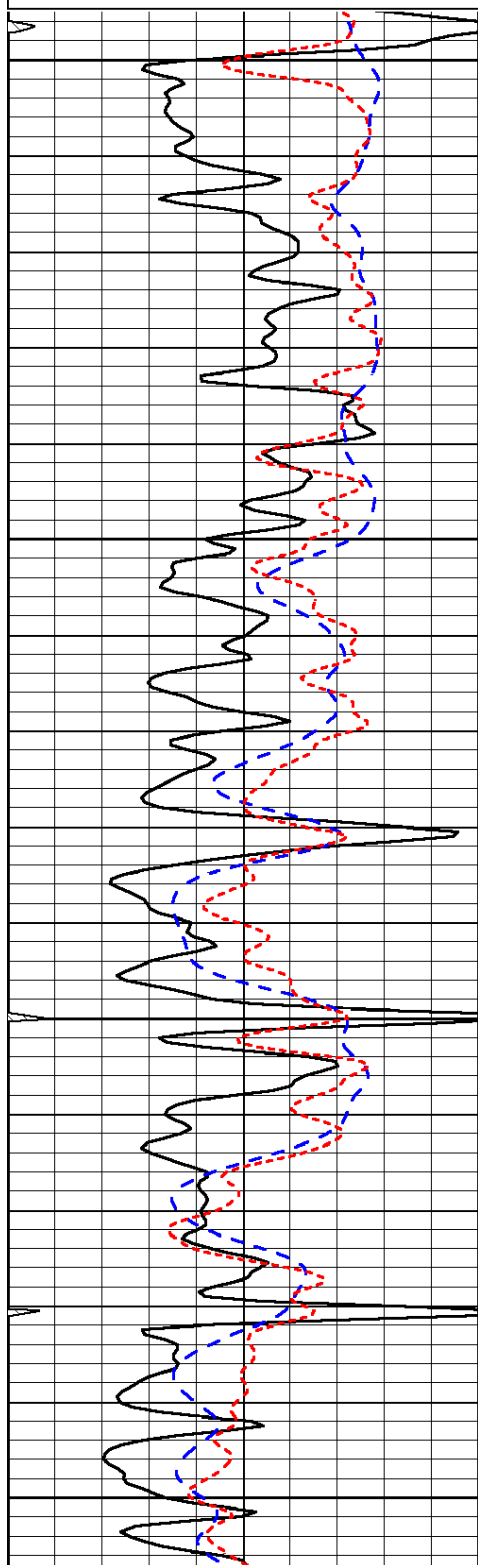


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Presentation Format: dil
Dataset Creation: Wed Oct 30 02:13:50 2013
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

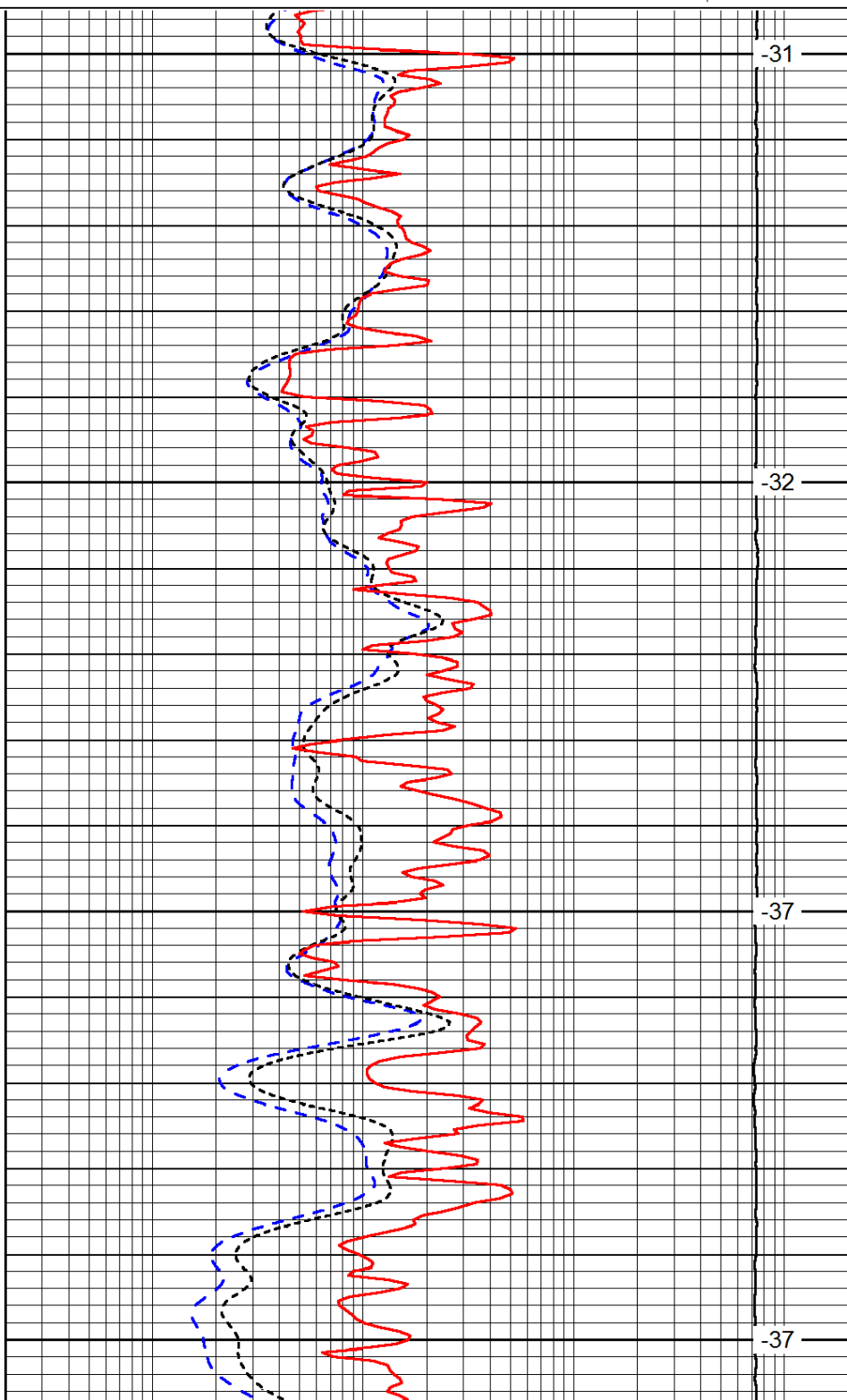


3600

3650

3700

3750

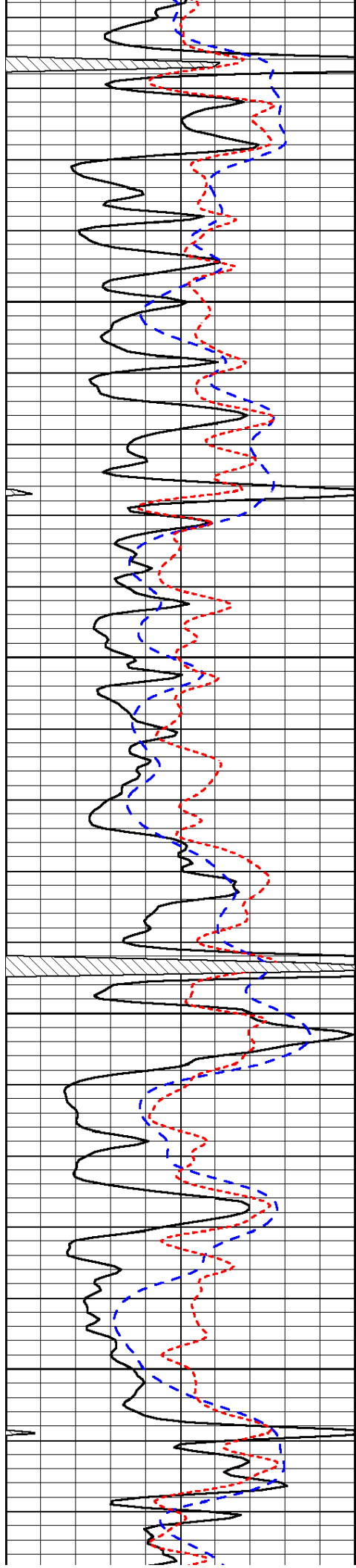


-31

-32

-37

-37

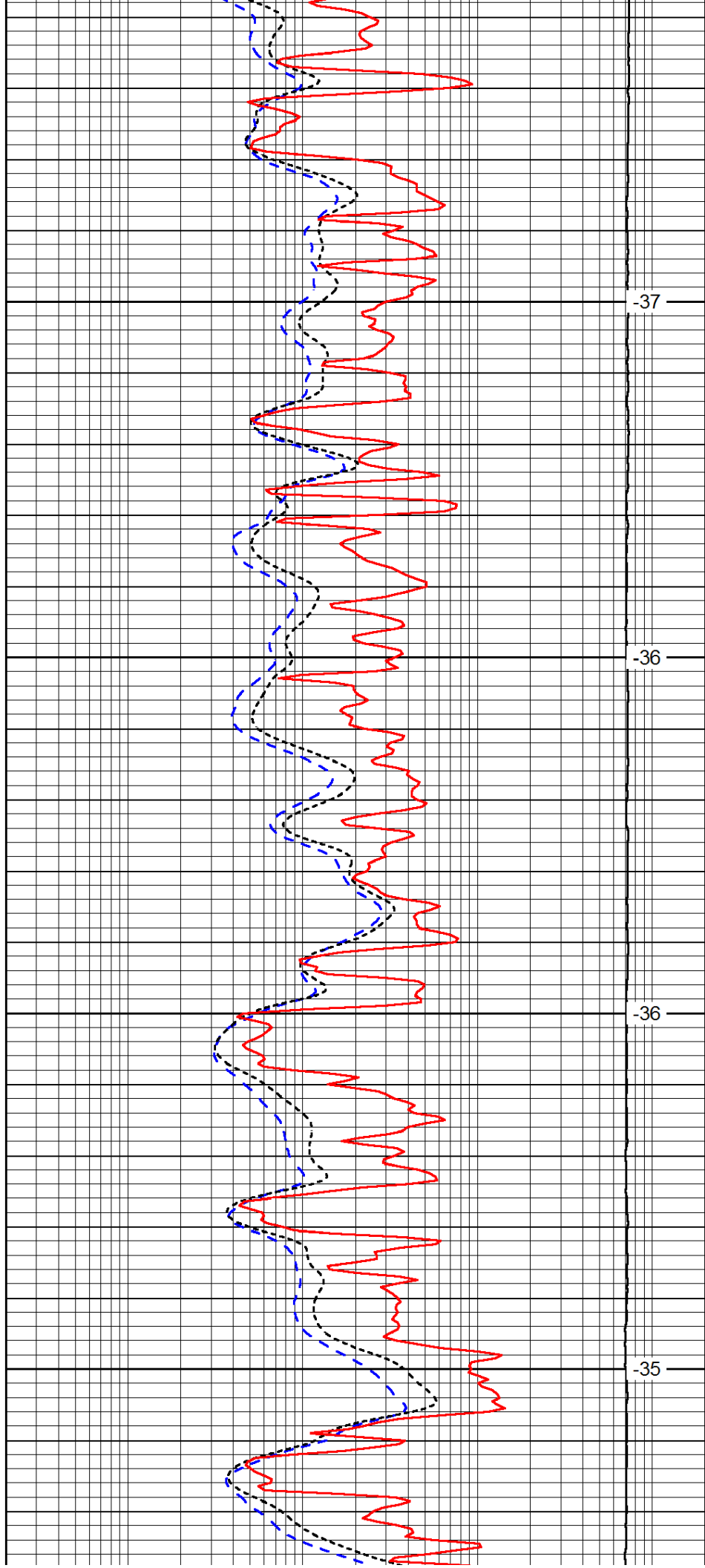


3800

3850

3900

3950

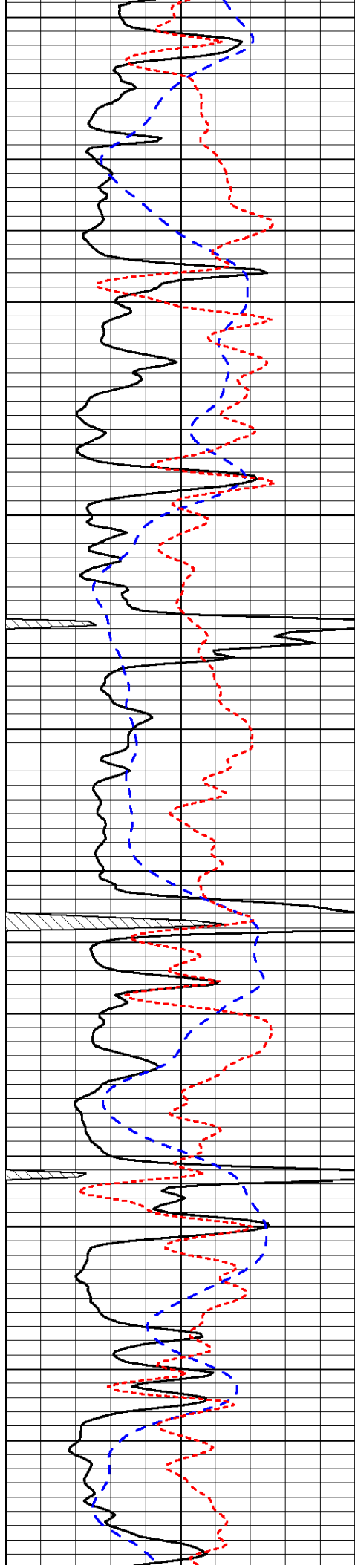


-37

-36

-36

-35

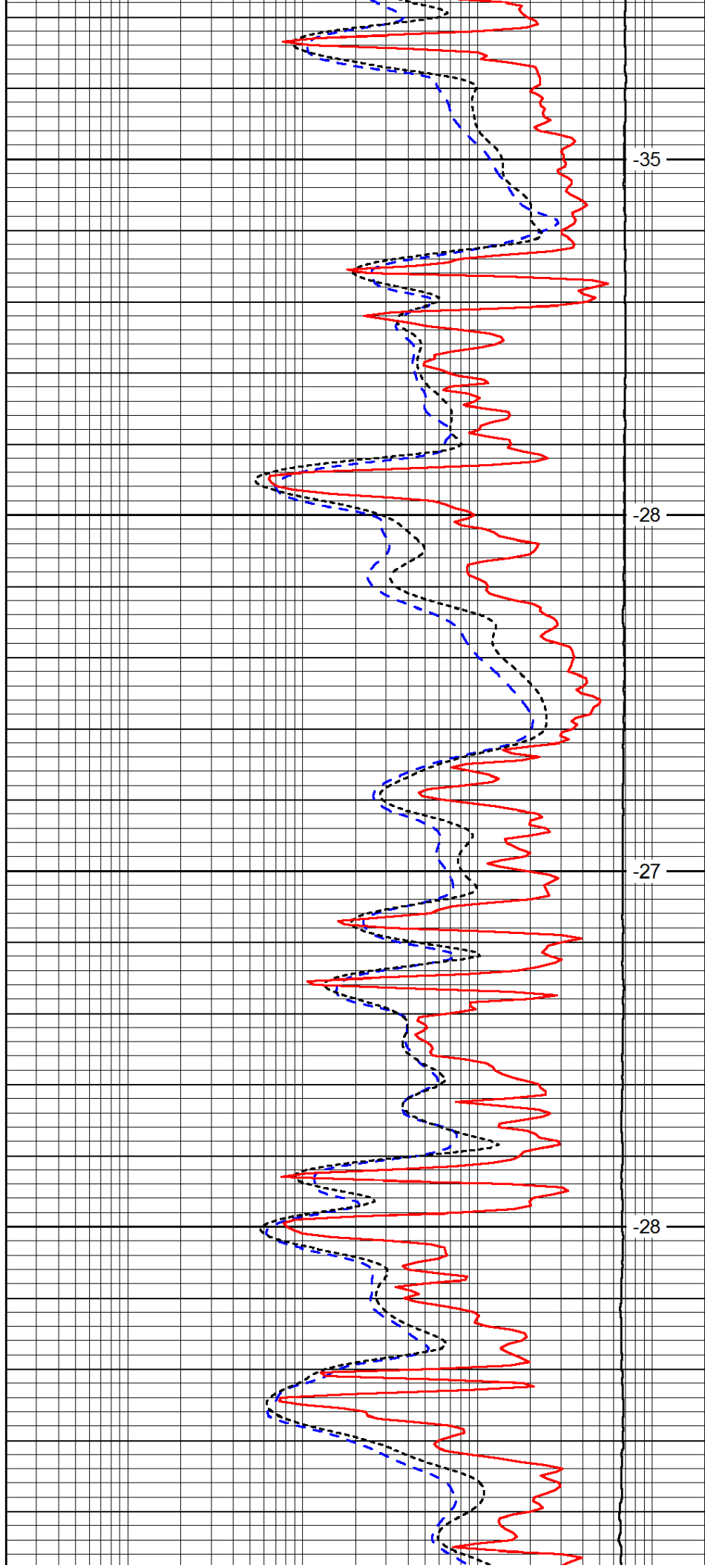


4000

4050

4100

4150

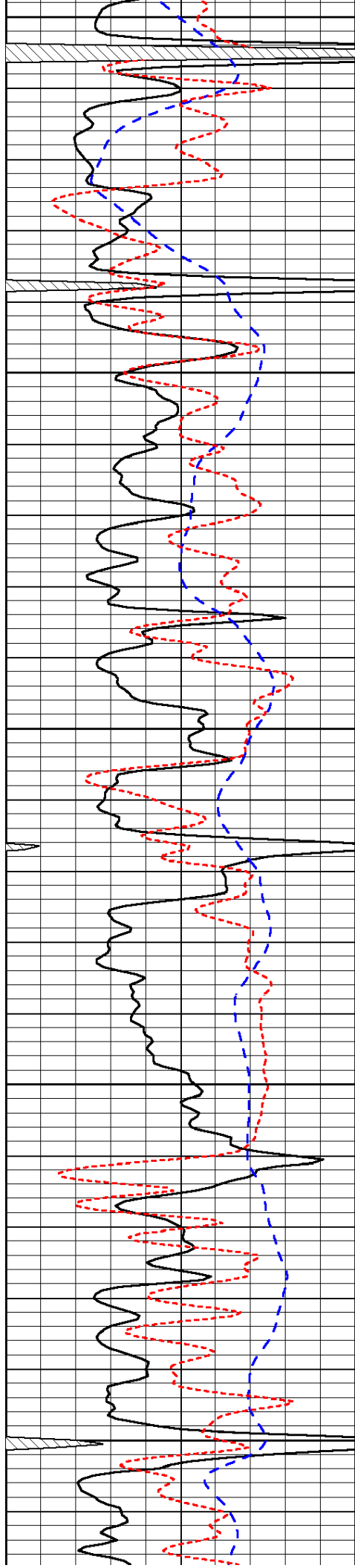


-35

-28

-27

-28



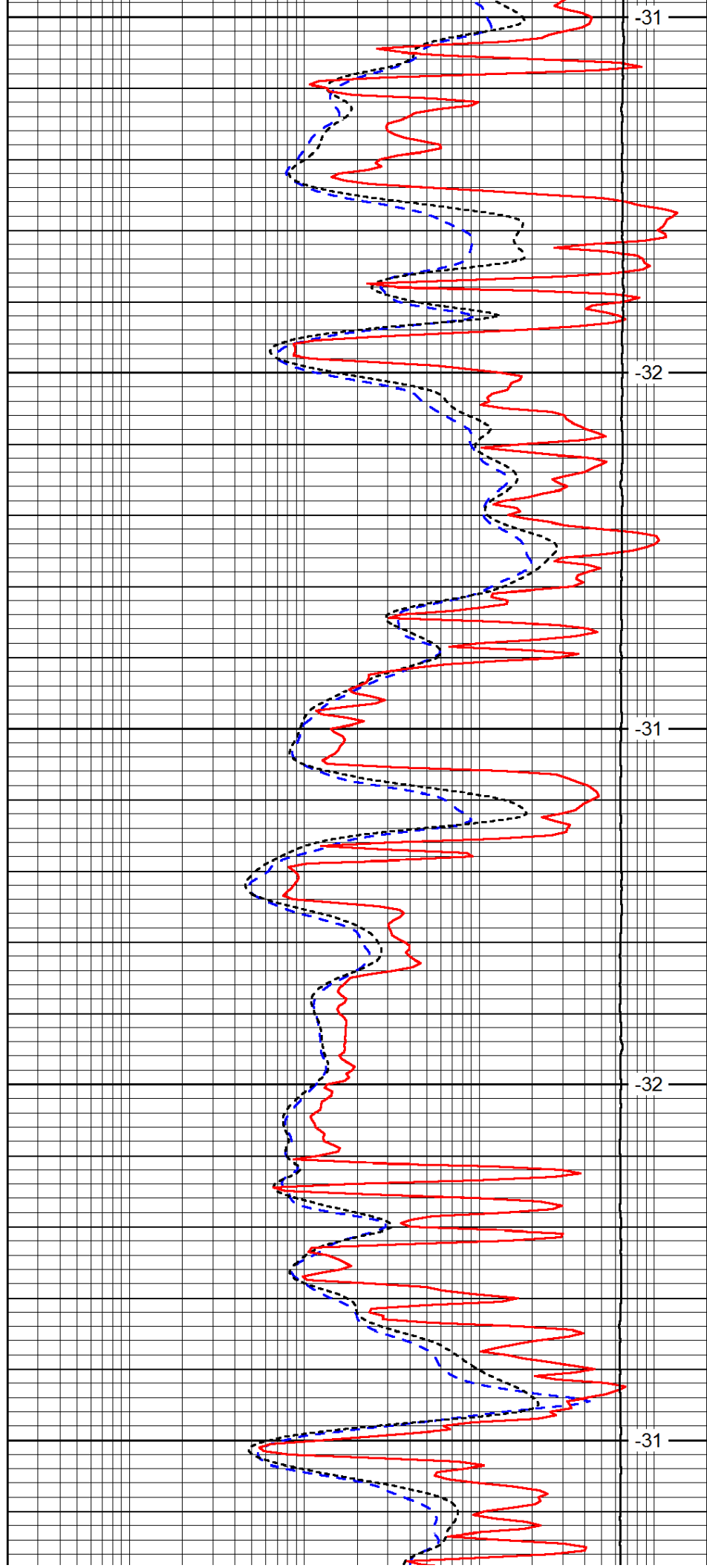
4200

4250

4300

4350

4400



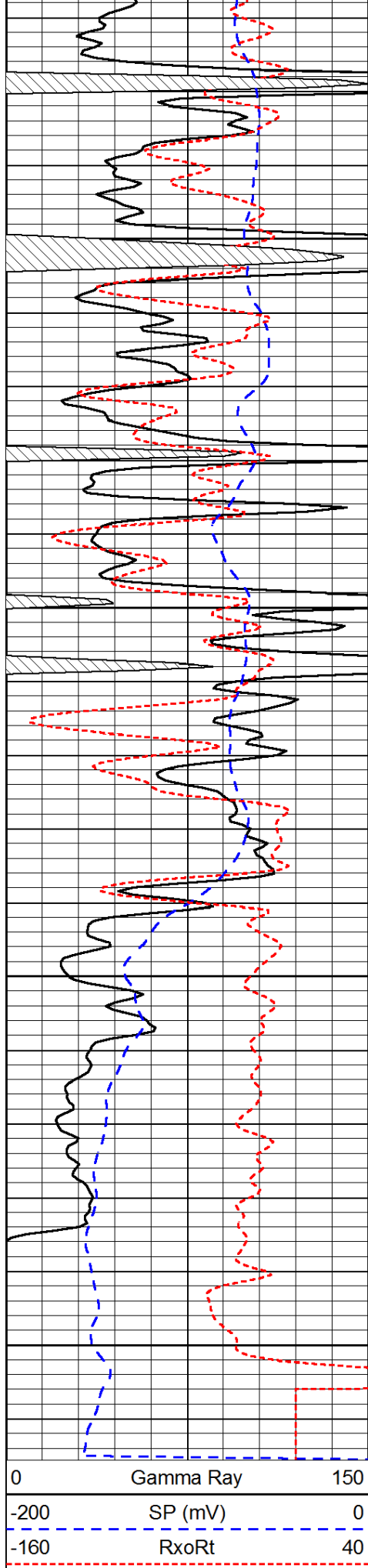
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-32

-31

-32

-31



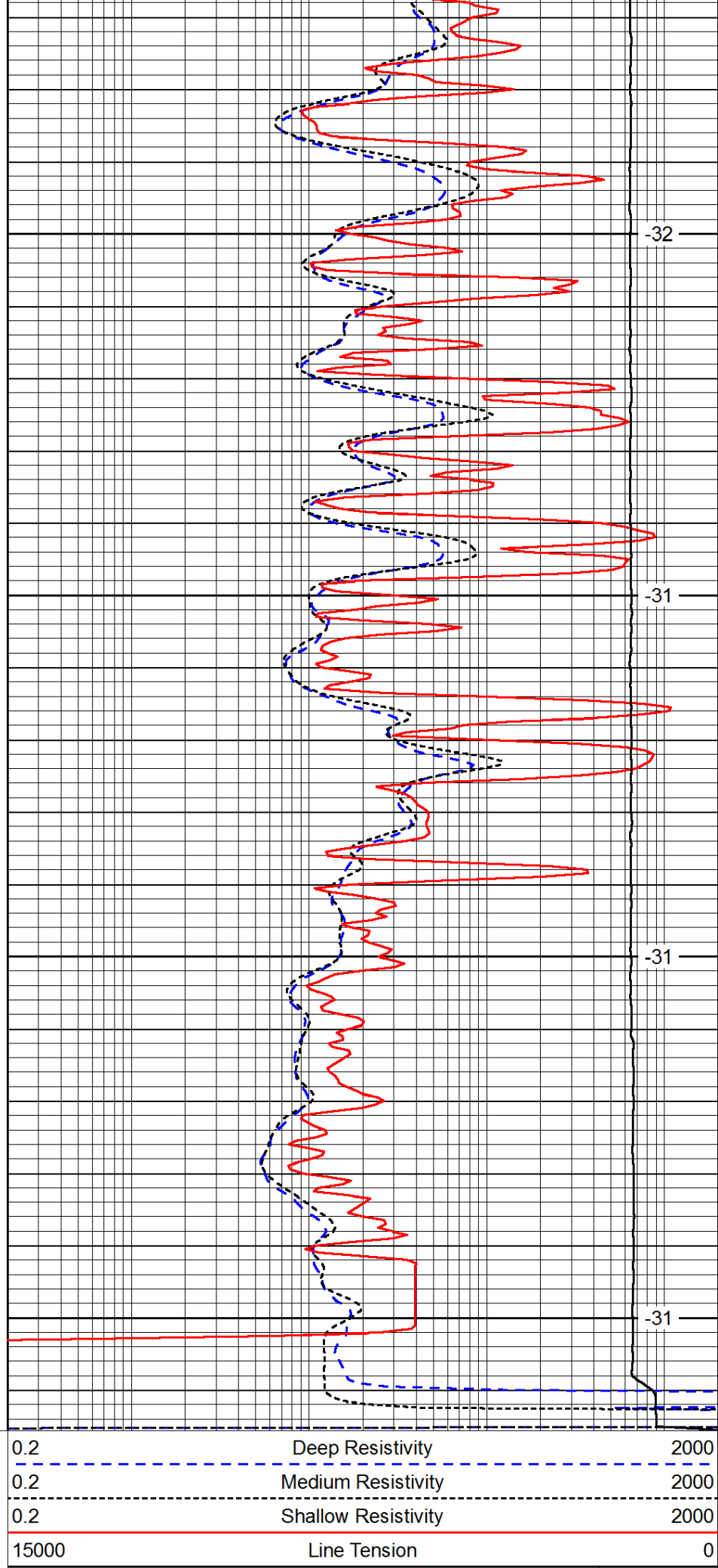
4450

4500

4550

4600

0 Gamma Ray 150
-200 SP (mV) 0
-160 RxoRt 40



-32

-31

-31

-31

0.2 Deep Resistivity 2000
0.2 Medium Resistivity 2000
0.2 Shallow Resistivity 2000
15000 Line Tension 0

[illegible]