



Dual Induction Log

Pioneer Energy Services

API No.

15-135-25505-00-00

Company American Warrior, Inc.

Well V Strecker #3-31

Field DeWald North

County Ness State

Kansas

Location 0' FSL & 940' FEL

Other Services
CNL/CDL

Sec: 31 Twp: 18S Rge: 21W

Elevation

Permanent Datum Ground Level Elevation 2160
Log Measured From Kelly Bushing 6 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing K.B. 2166
D.F. 2160
G.L. 2160

Date 1/23/2013

Run Number One

Depth Driller 4265

Depth Logger 4264

Bottom Logged Interval 4263

Top Log Interval 200

Casing Driller 8.625 @ 227

Casing Logger 217

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 6400

Density / Viscosity 9.5 49

pH / Fluid Loss 9.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp 1.00 @ 50

Rmf @ Meas. Temp 0.75 @ 50

Rmc @ Meas. Temp 1.35 @ 50

Source of Rmf / Rmc Charts

Rm @ BHT 0.41 @ 121

Operating Rig Time 3 Hours

Max Rec. Temp. F 121

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Jason Alm

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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
Bazine,
2 South on DD Rd to 110 Rd, 1 East to EE Rd, 4/5 North,
West into

Database File: c:\warrior\data\amwar_v strecker #3-31\amwar_012313hd.db
Dataset Pathname: dil\awstack
Presentation Format: dil2in
Dataset Creation: Wed Jan 23 23:44:36 2013
Charted by: Depth in Feet scaled 1:600

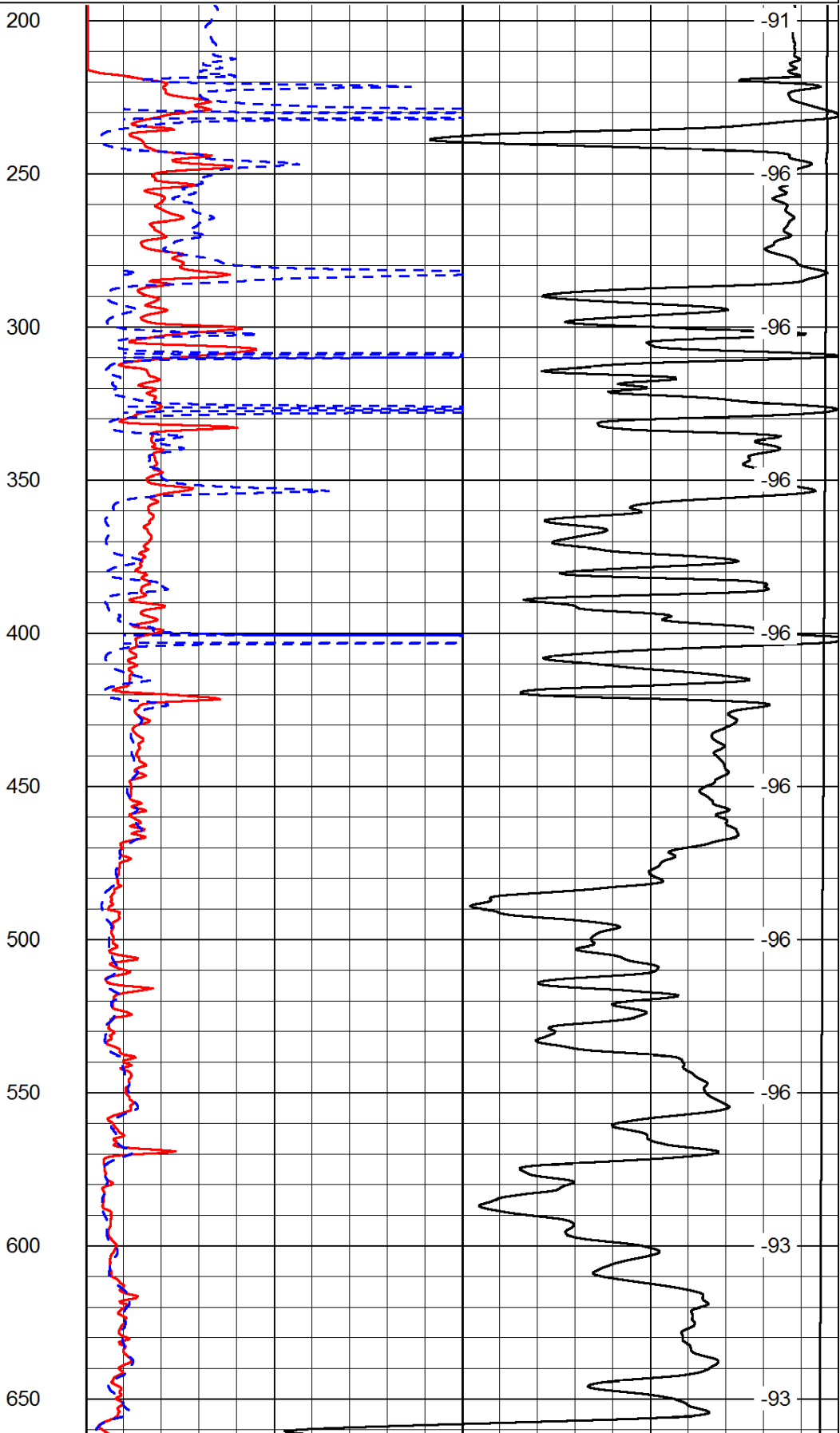
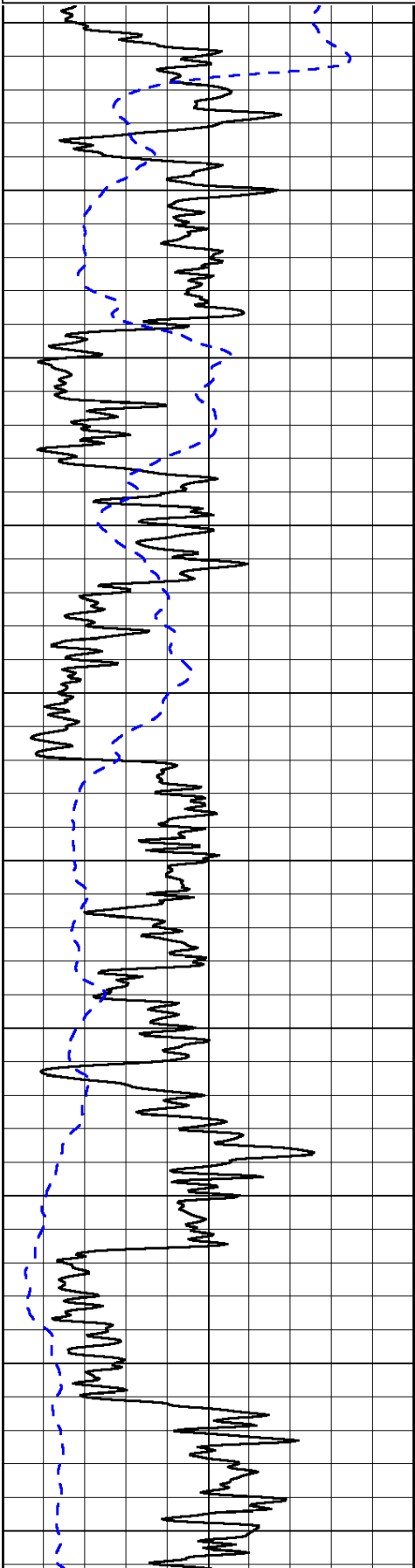
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-200	SP (mV)	0

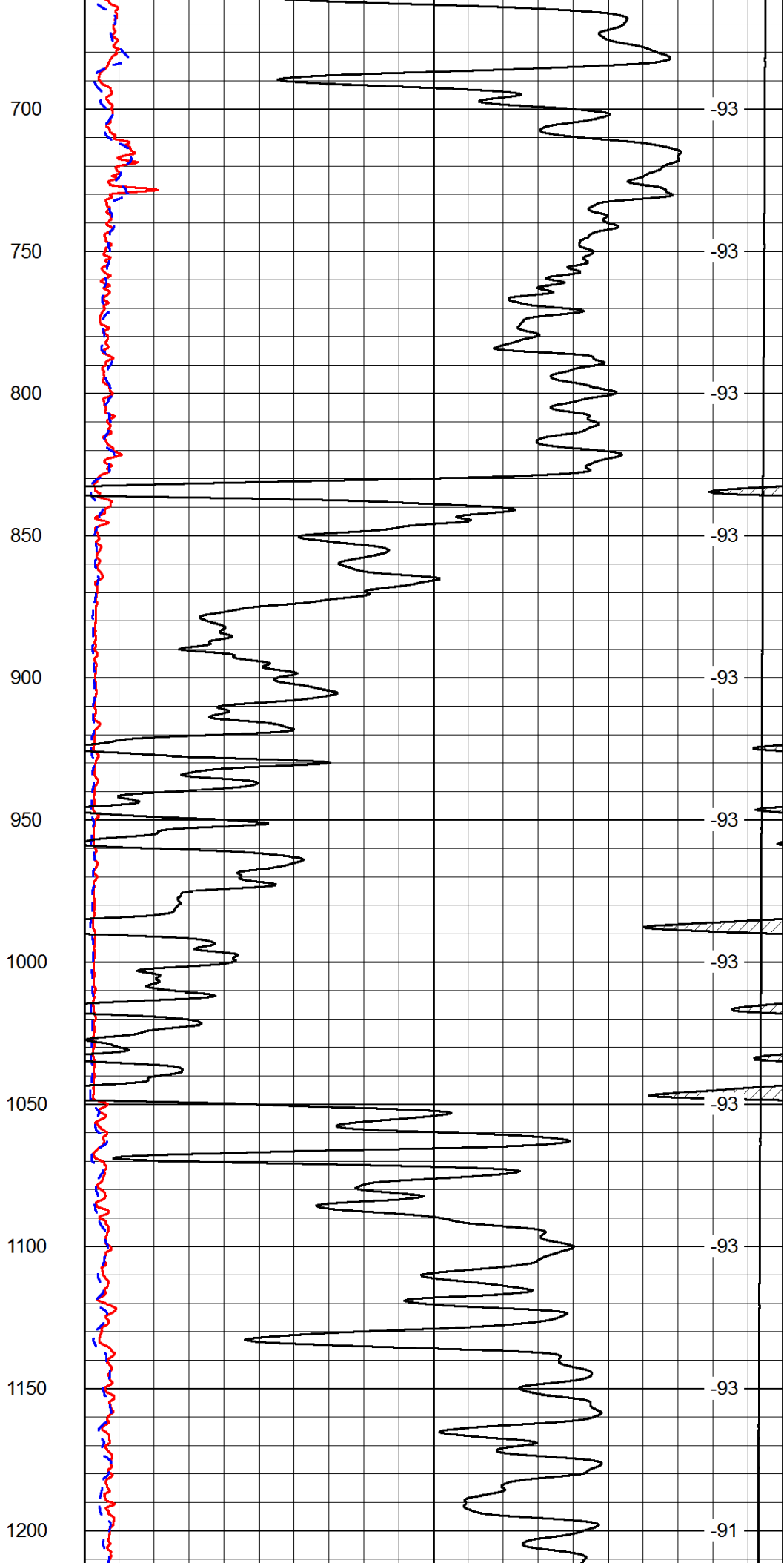
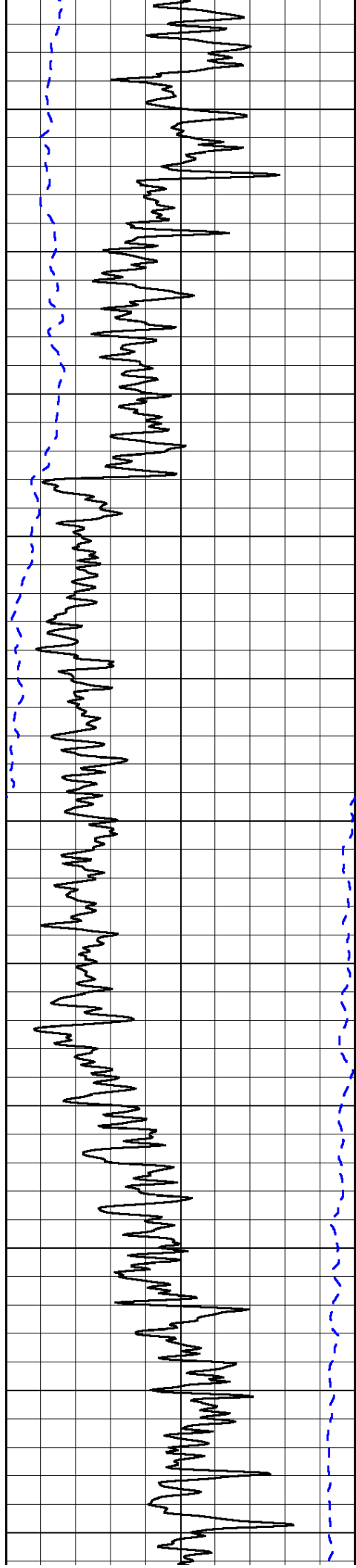
0	Shallow Resistivity	50
0	Deep Resistivity	50

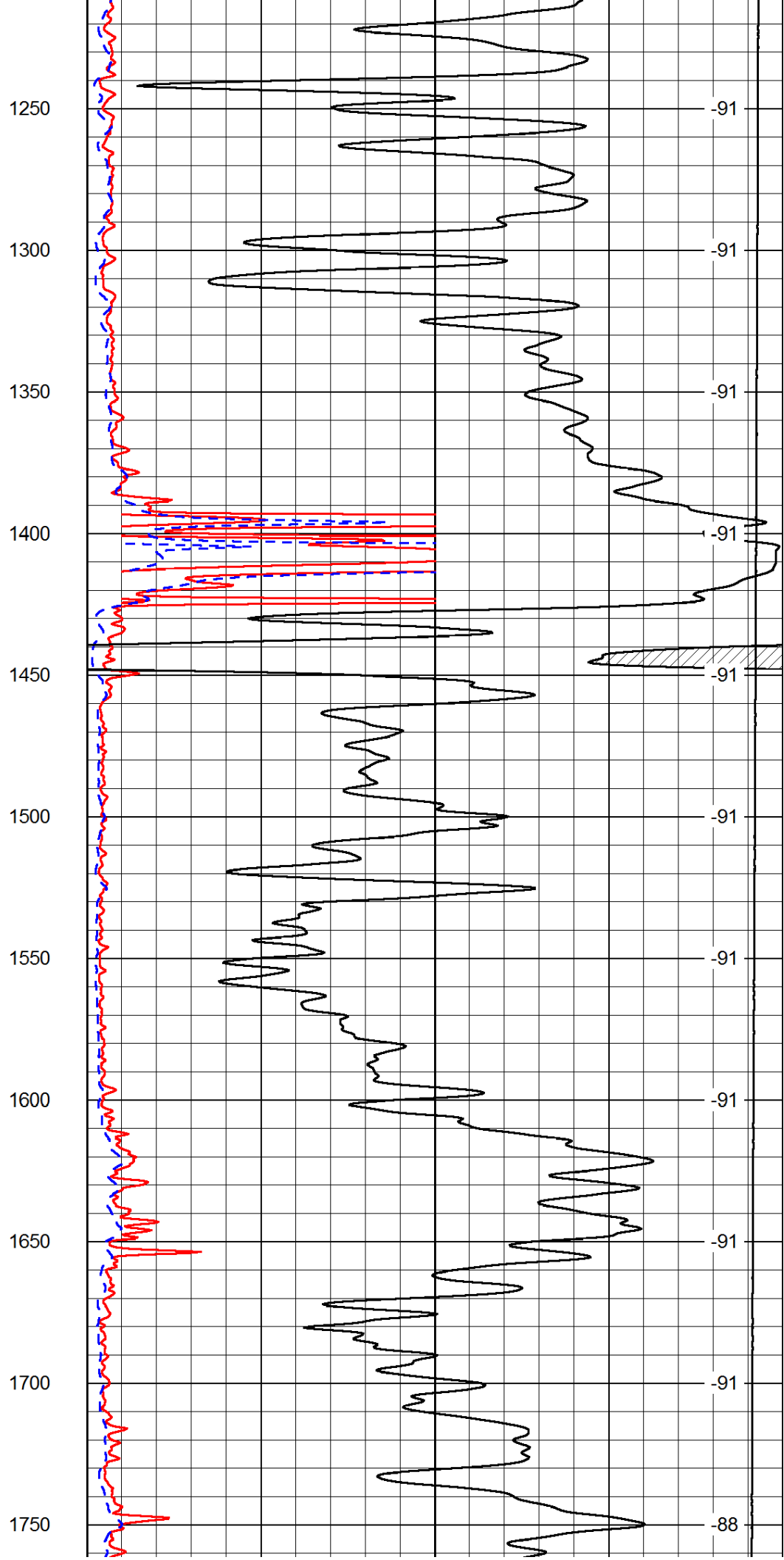
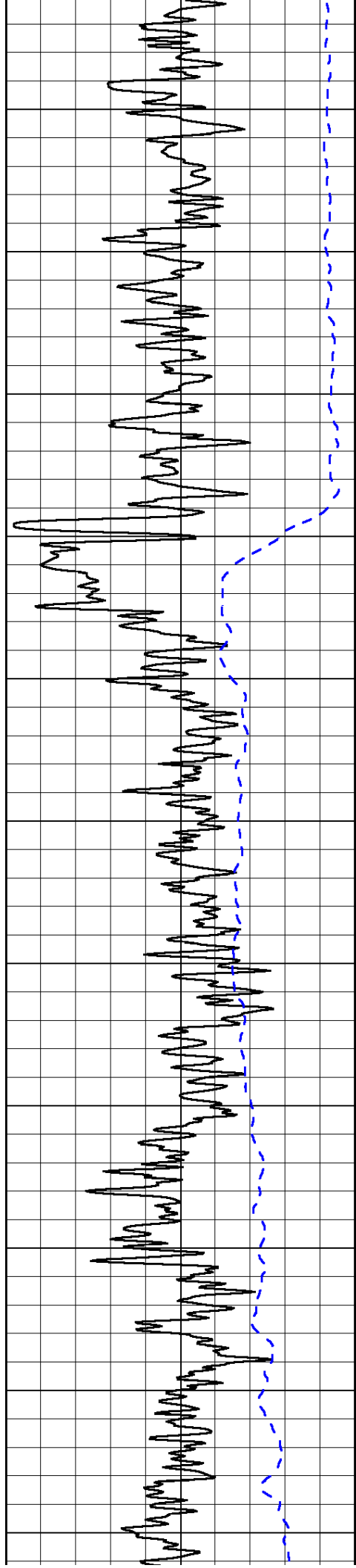
LSPD

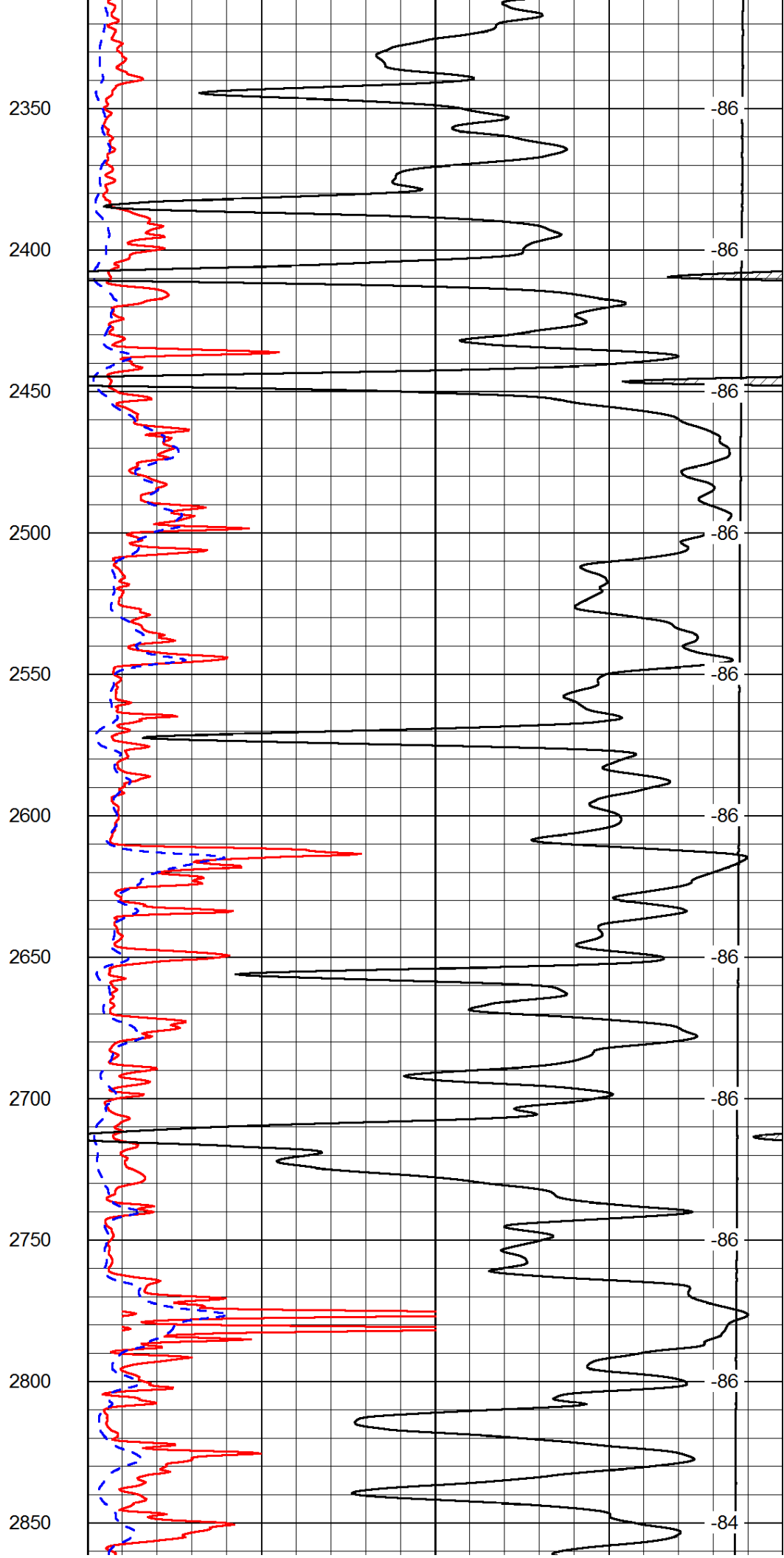
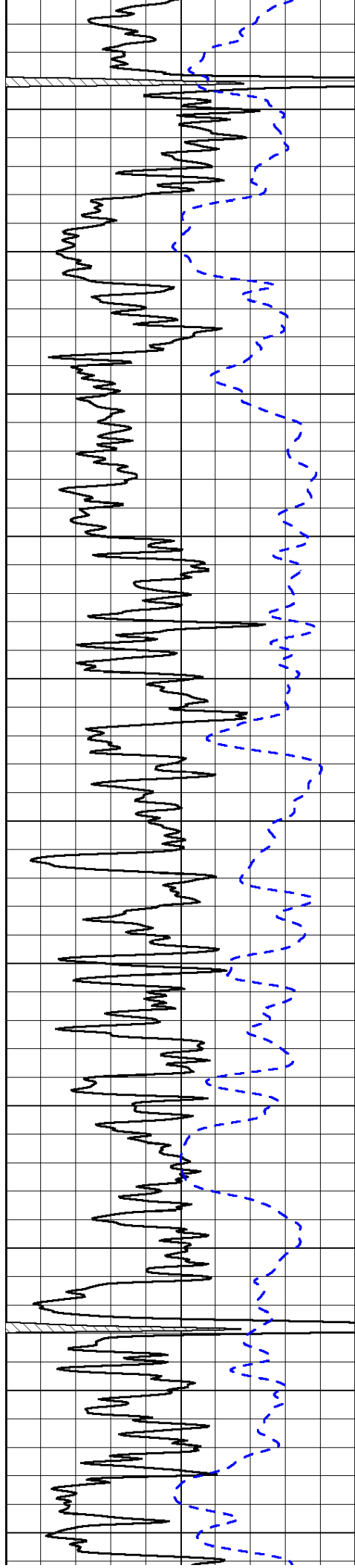
1000	Conductivity	0
15000	Line Tension	0

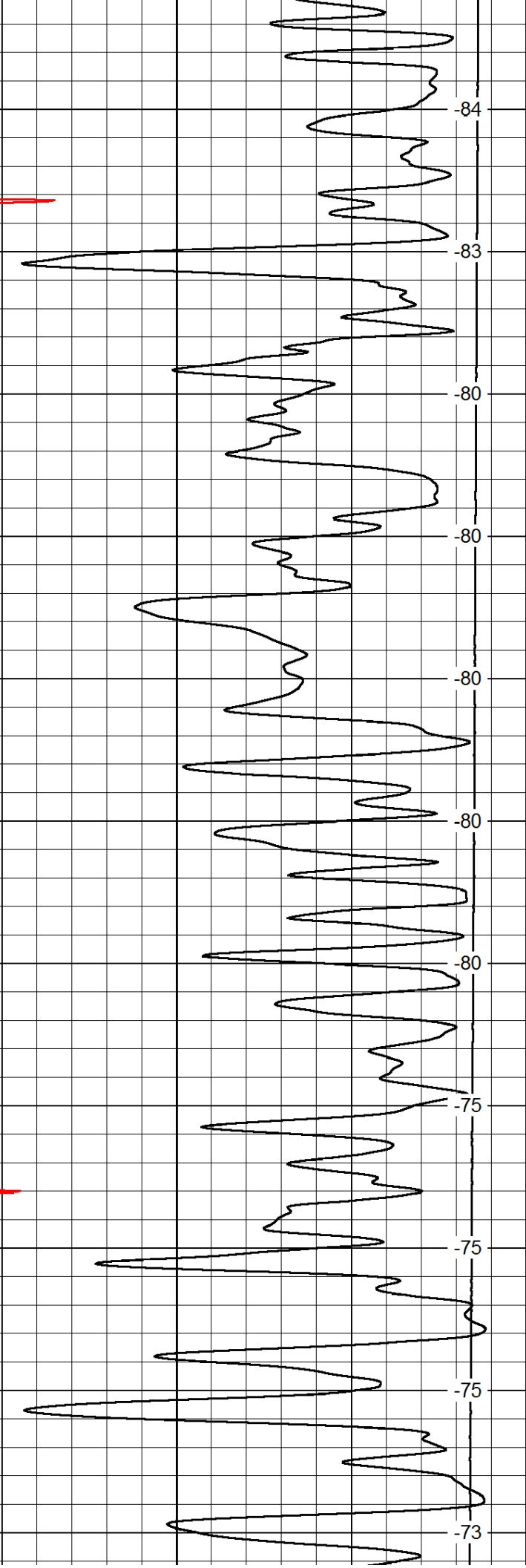
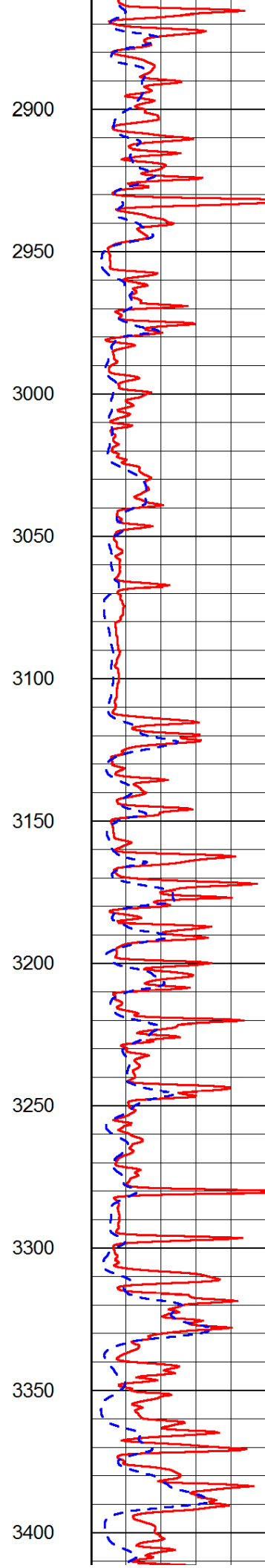
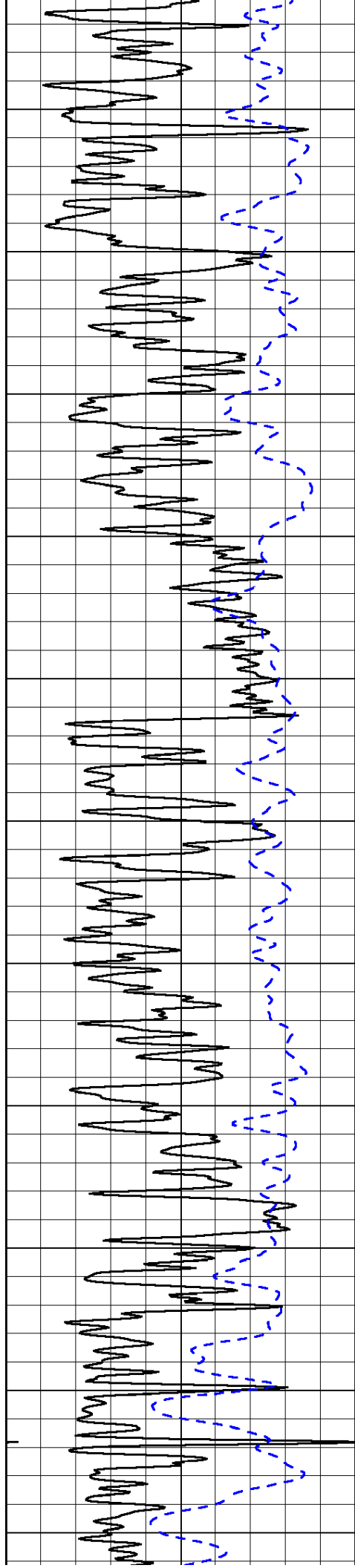
50	Shallow Resistivity	500
50	Deep Resistivity	500

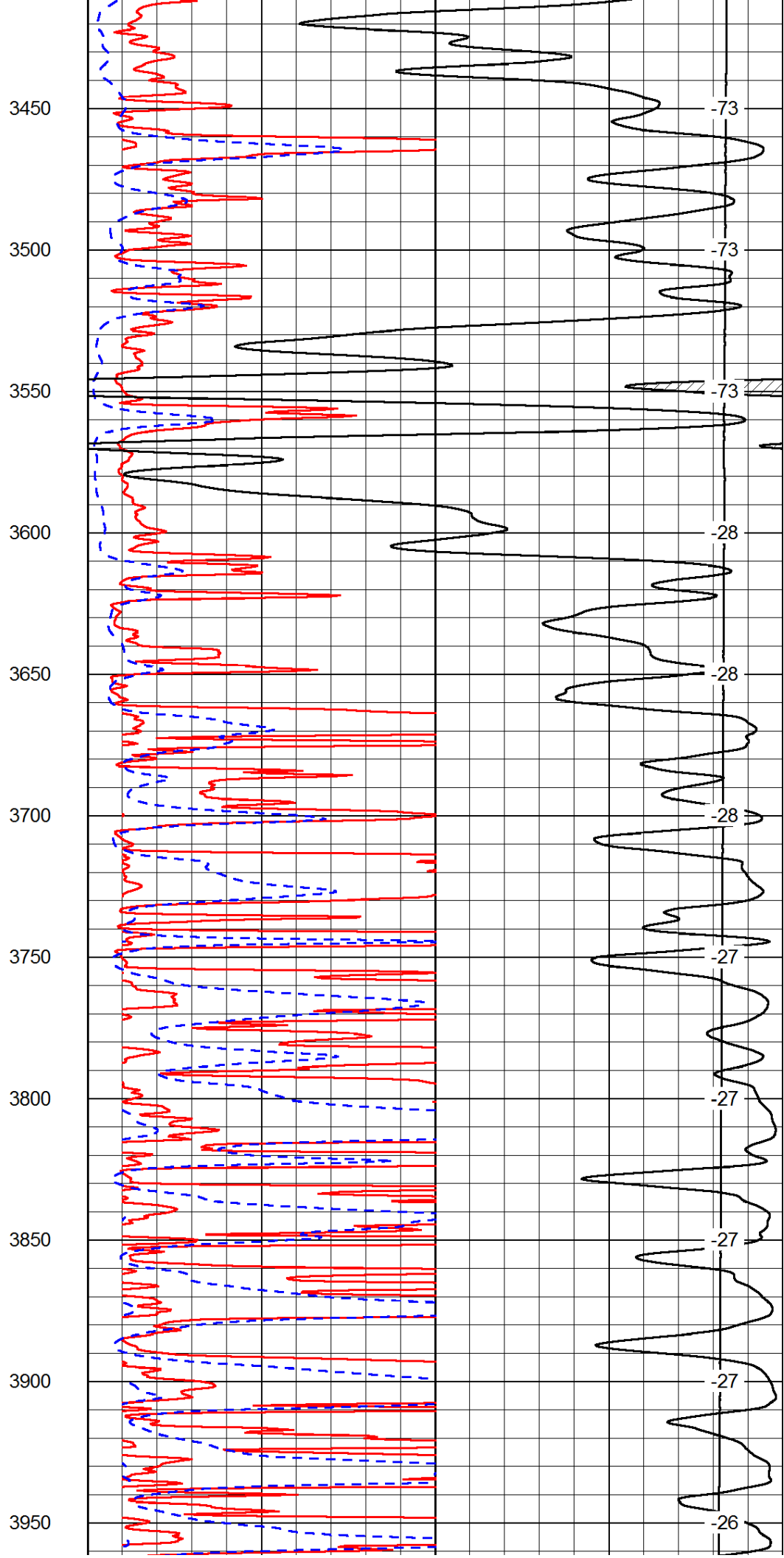
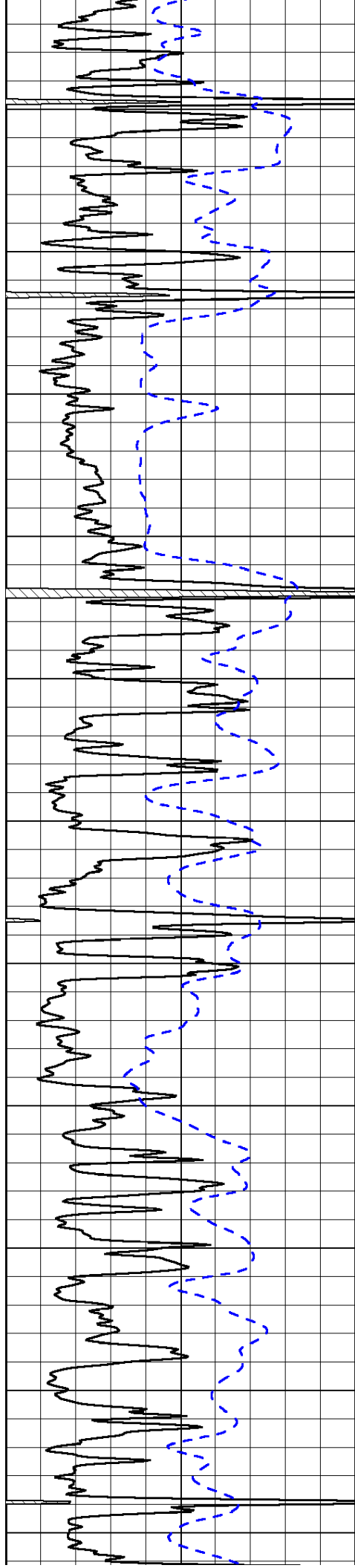


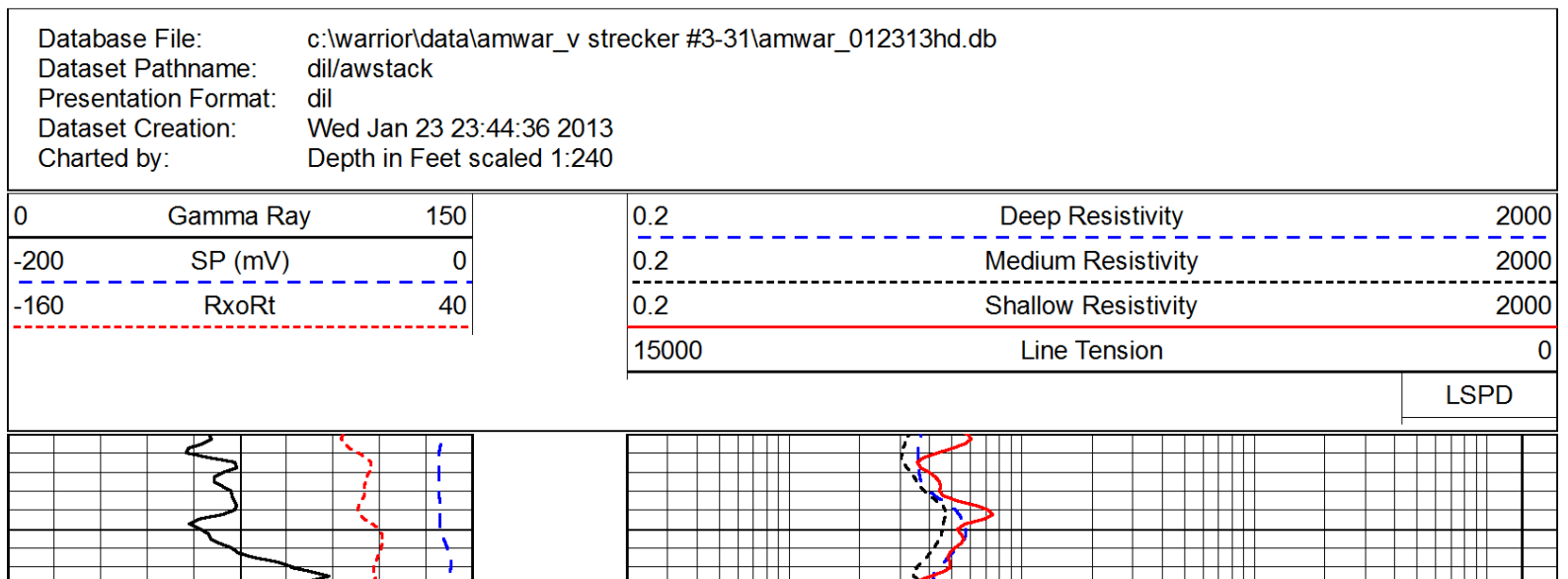
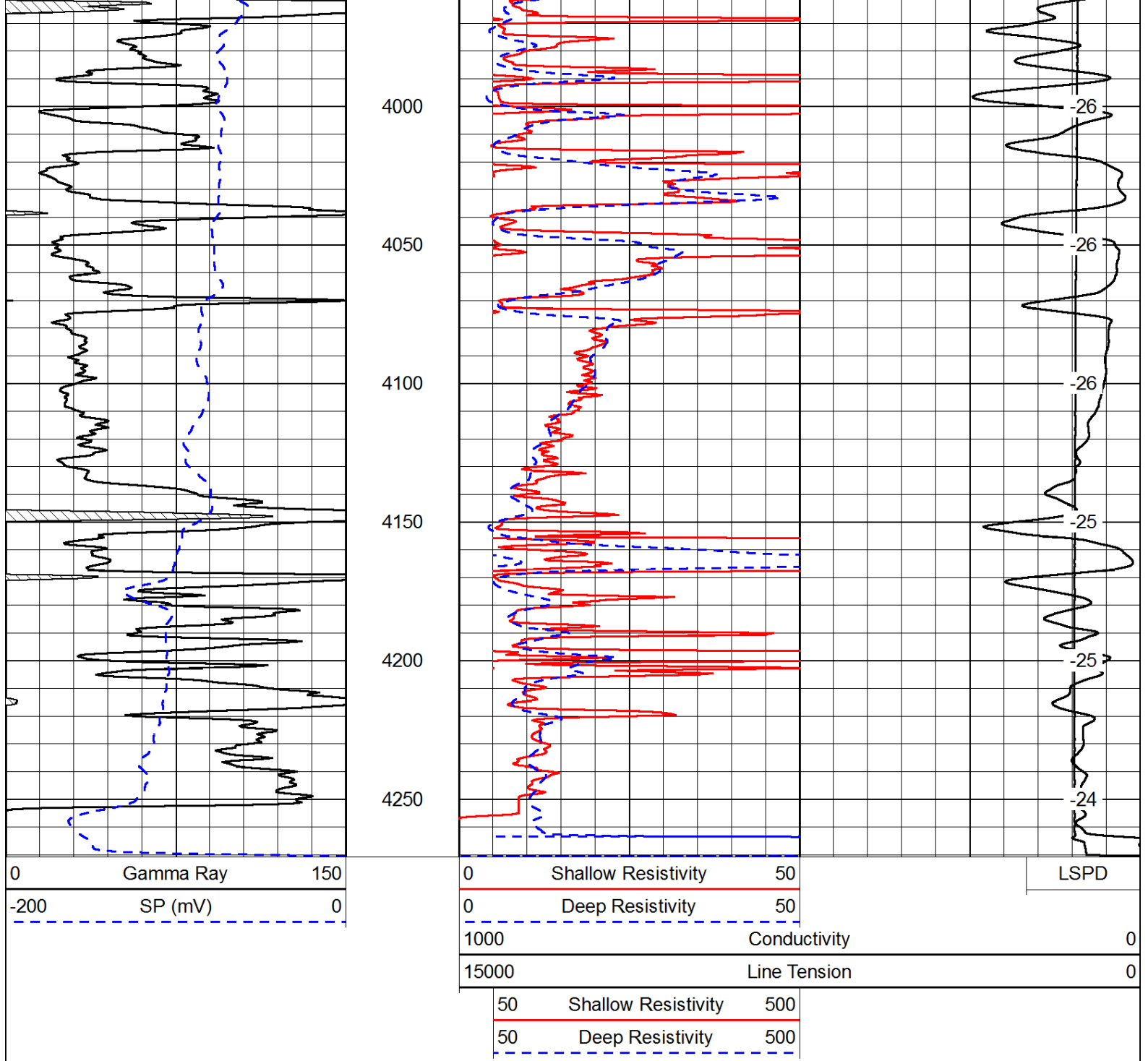


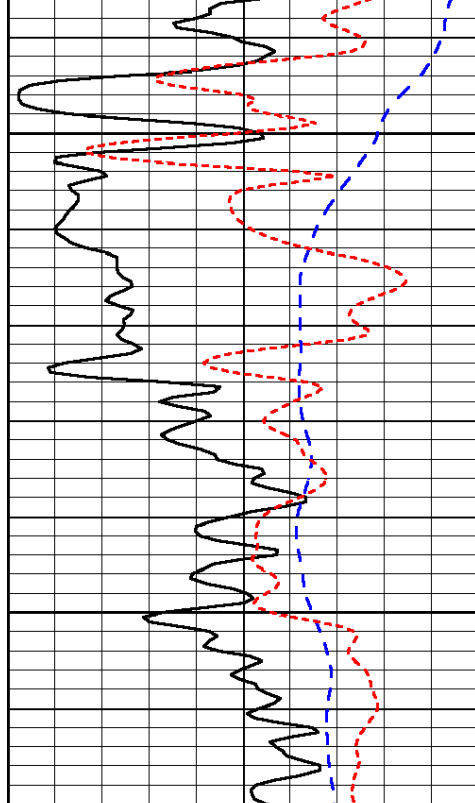








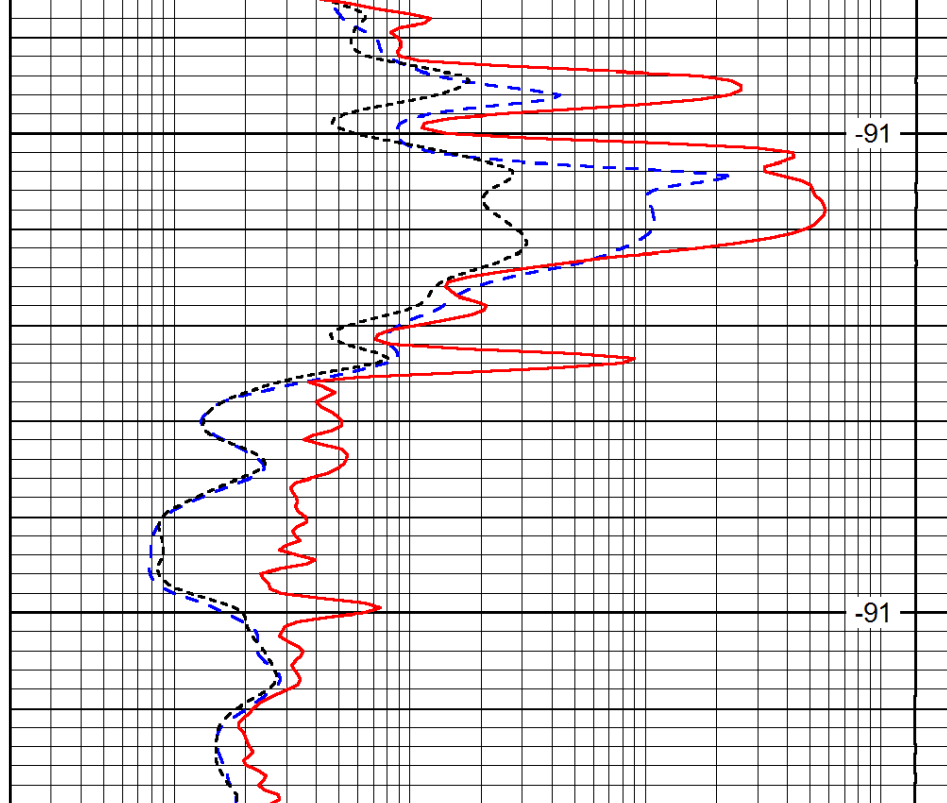




0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

1400

1450



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

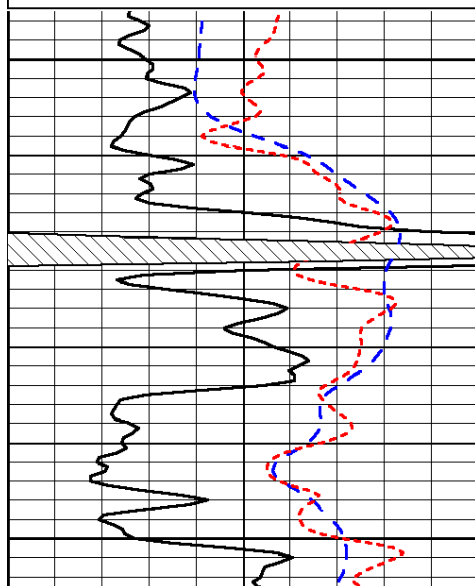
LSPD

Database File: c:\warrior\data\amwar_v strecker #3-31\amwar_012313hd.db
 Dataset Pathname: dil/awstack
 Presentation Format: dil
 Dataset Creation: Wed Jan 23 23:44:36 2013
 Charted by: Depth in Feet scaled 1:240

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

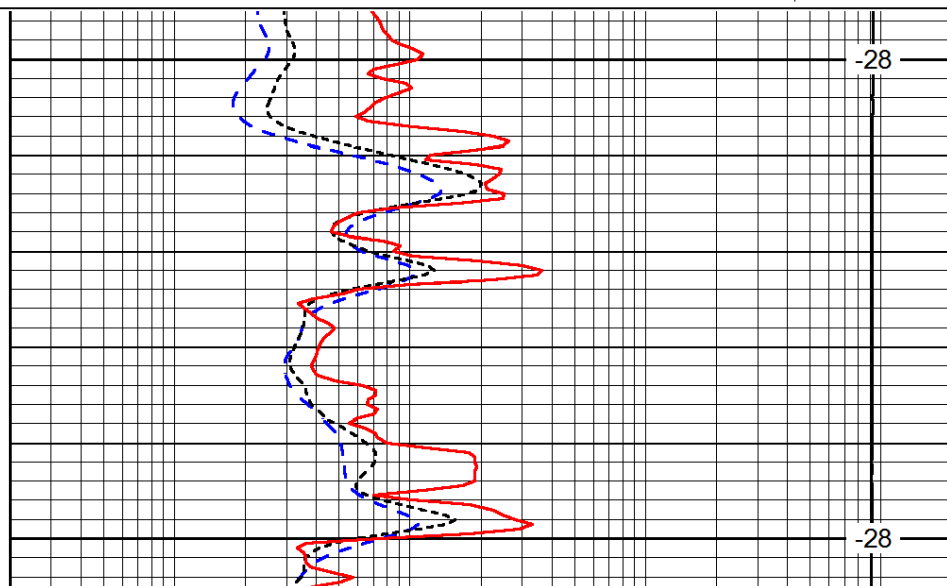
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



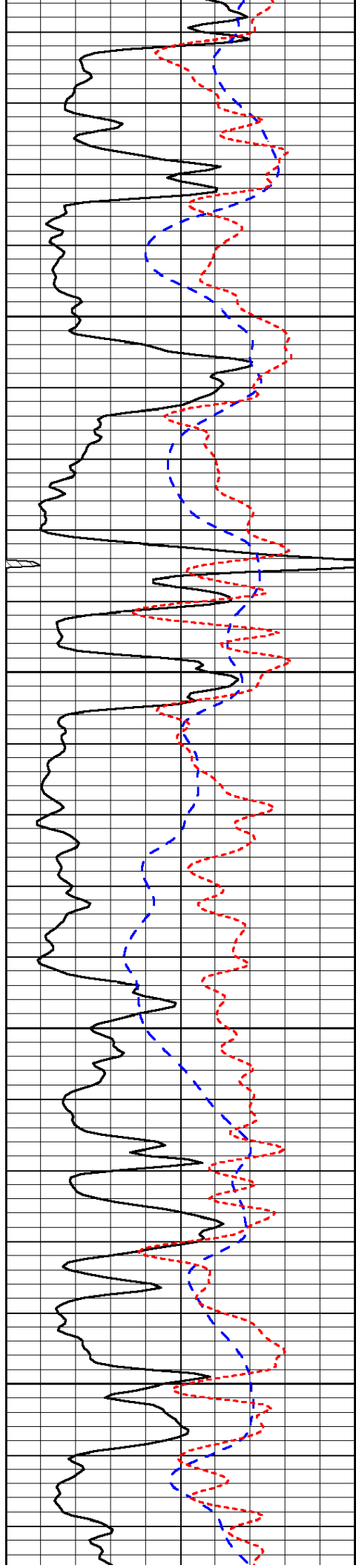
3600

3650



-28

-28

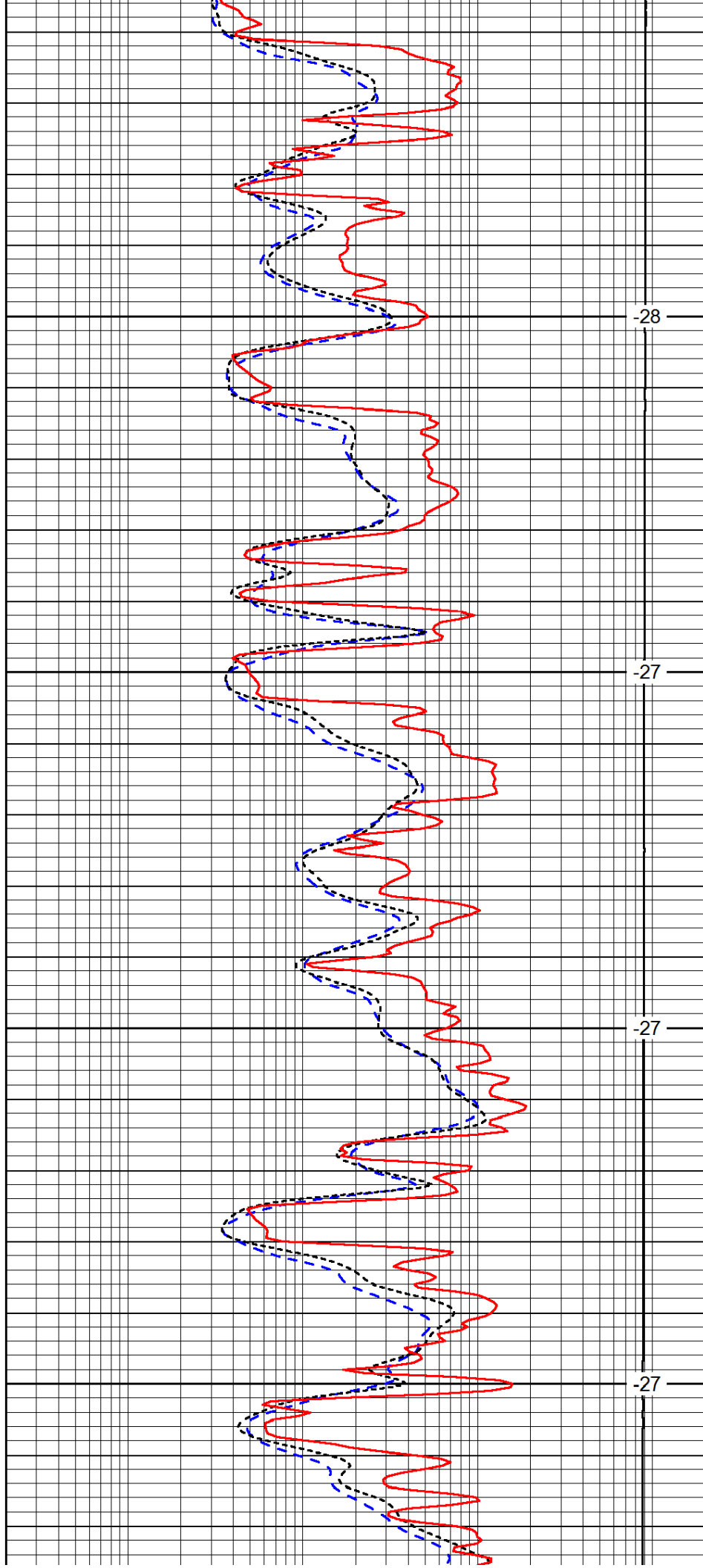


3700

3750

3800

3850

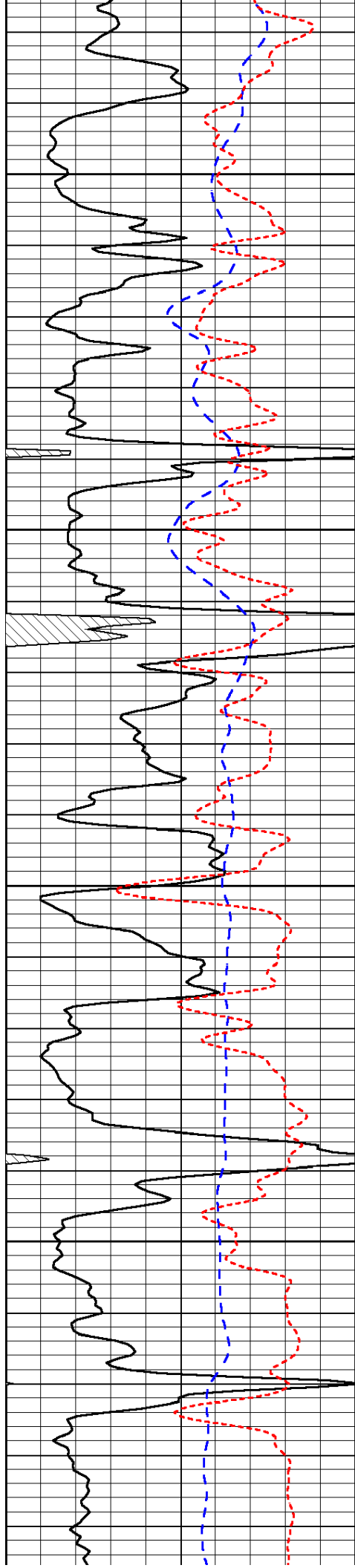


-28

-27

-27

-27

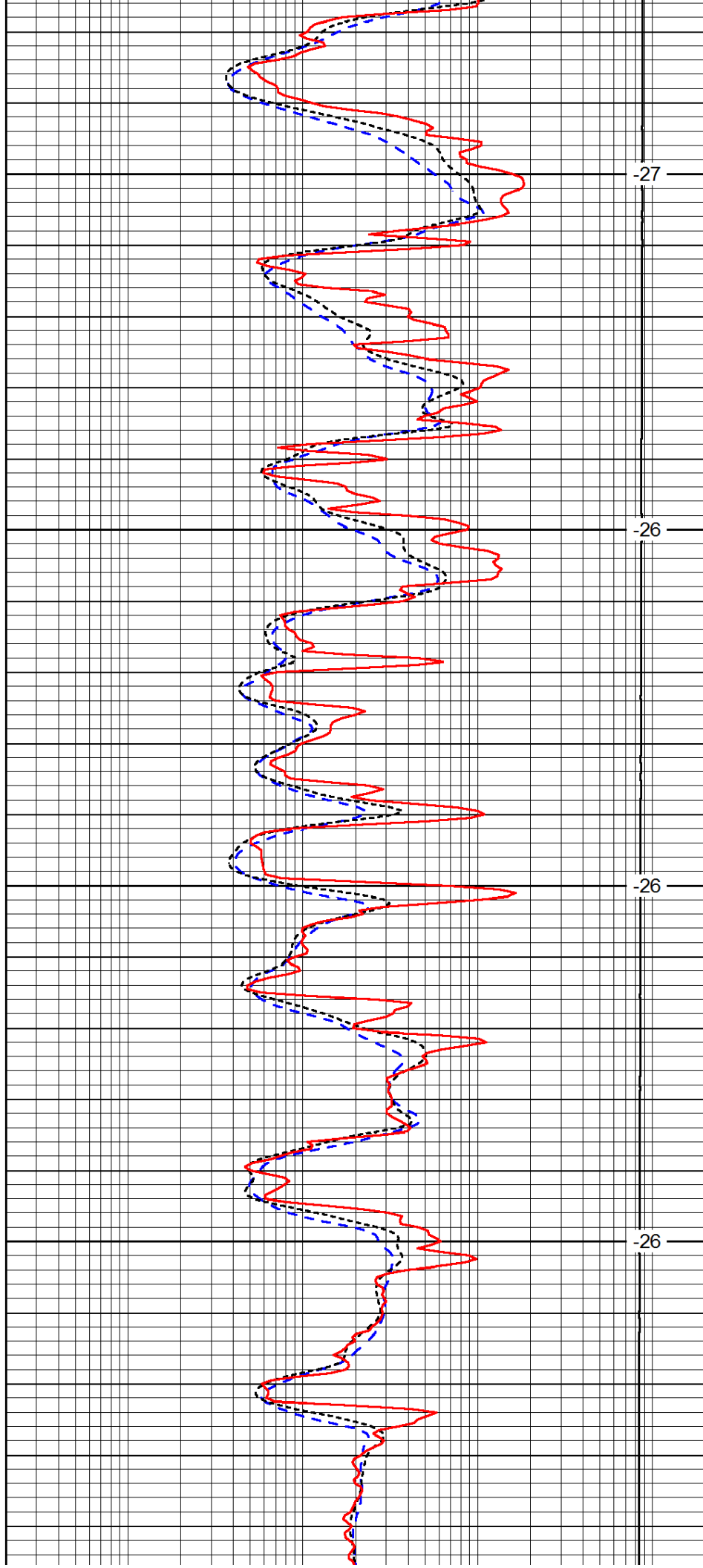


3900

3950

4000

4050

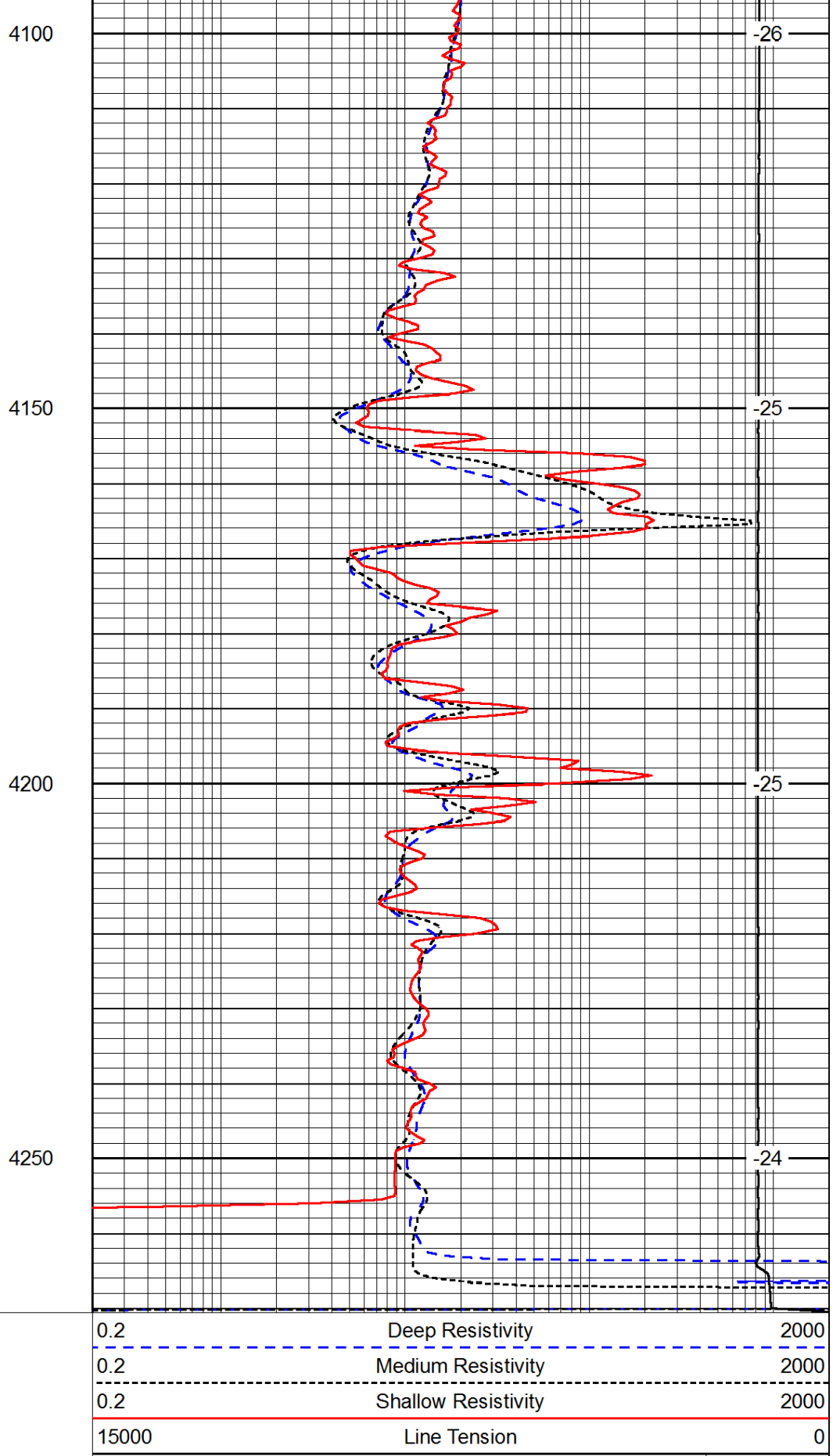
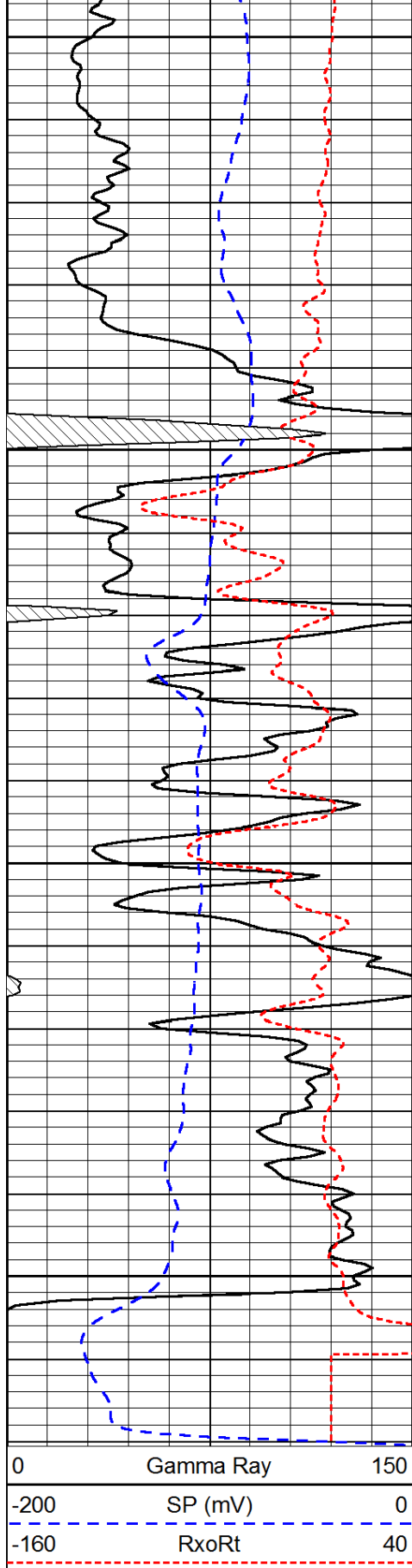


-27

-26

-26

-26



LSPD