



Dual Induction Log

Pioneer Energy Services

API No.

15-065-24,074-00-00

Company **Chisholm Partners II, LLC.**

Well **Nighswonger #9-1**

Field

County **Graham**

State

Kansas

Location

2310' FSL & 990' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: **9**

Twp: **7S**

Rge: **23W**

Elevation

K.B. 2450
D.F. 2442
G.L. 2442

Permanent Datum **Ground Level** Elevation **2442**
Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Date

11/26/2014

Run Number

One

Depth Driller

4000

Depth Logger

3999

Bottom Logged Interval

3998

Top Log Interval

250

Casing Driller

8.625 @ 262

Casing Logger

262

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1500

Density / Viscosity

9.4

pH / Fluid Loss

10.0

Source of Sample

Flowline

Rm @ Meas. Temp

1.65 @ 68

Rmf @ Meas. Temp

1.24 @ 68

Rmc @ Meas. Temp

2.23 @ 68

Source of Rmf / Rmc

Charts

Rm @ BHT

.97 @ 116

Operating Rig Time

5 Hours

Max Rec. Temp. F

116

Equipment Number

108

Location

Hays

Recorded By

D. Fischer

Witnessed By

Jeff lawler

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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

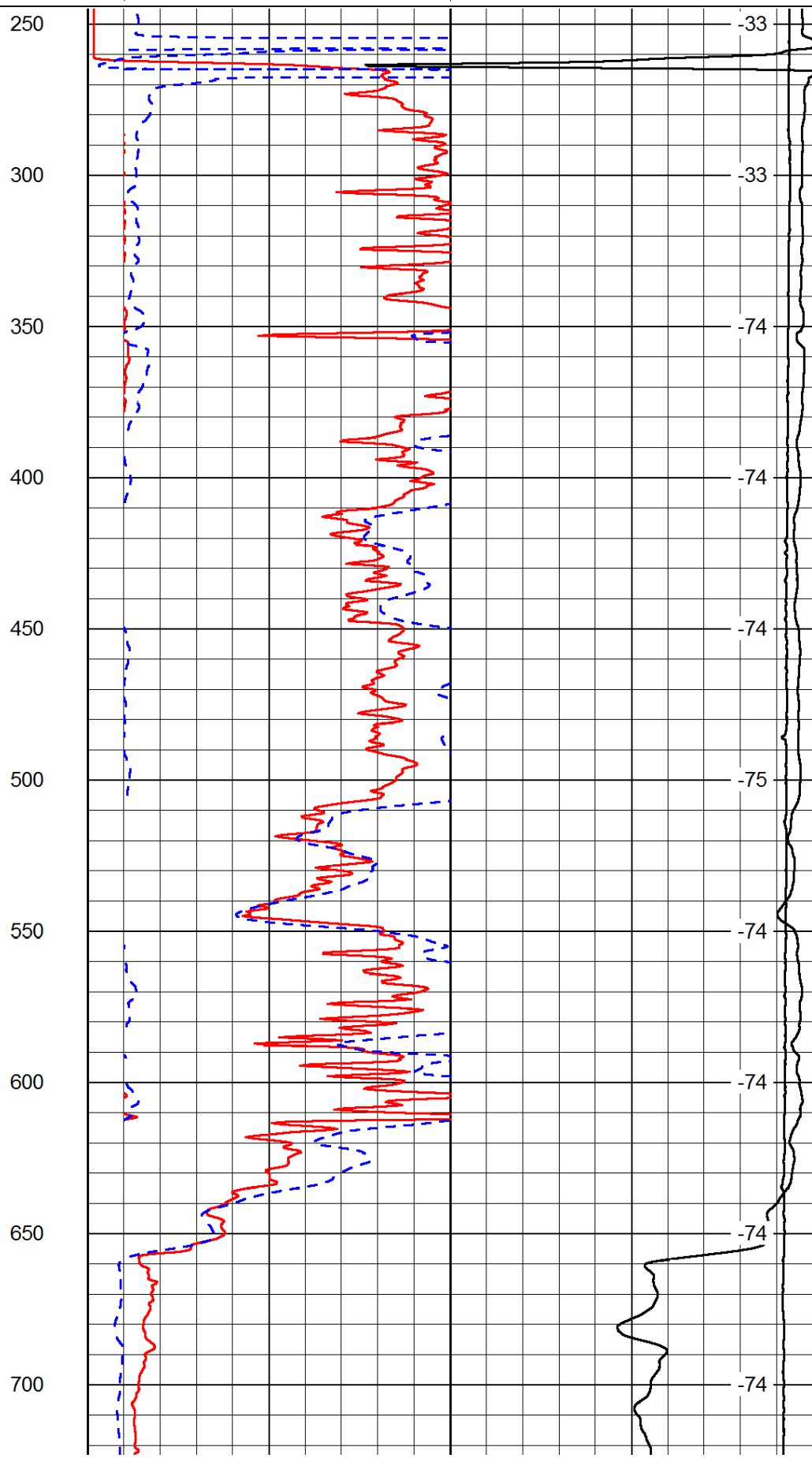
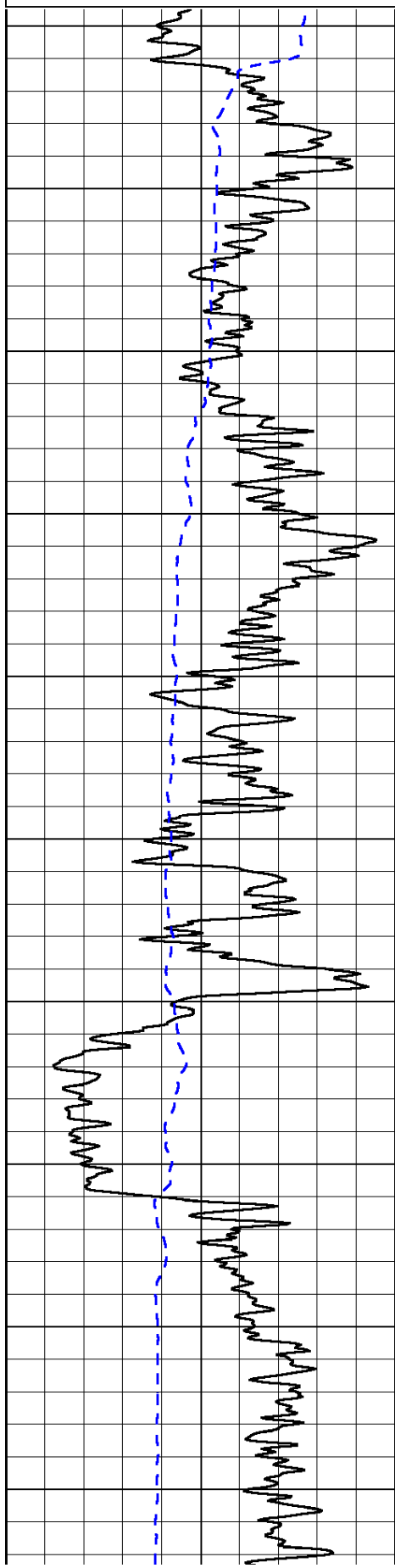
Hill City Ks., West to 240 Rd., 6.5 North, East Into.

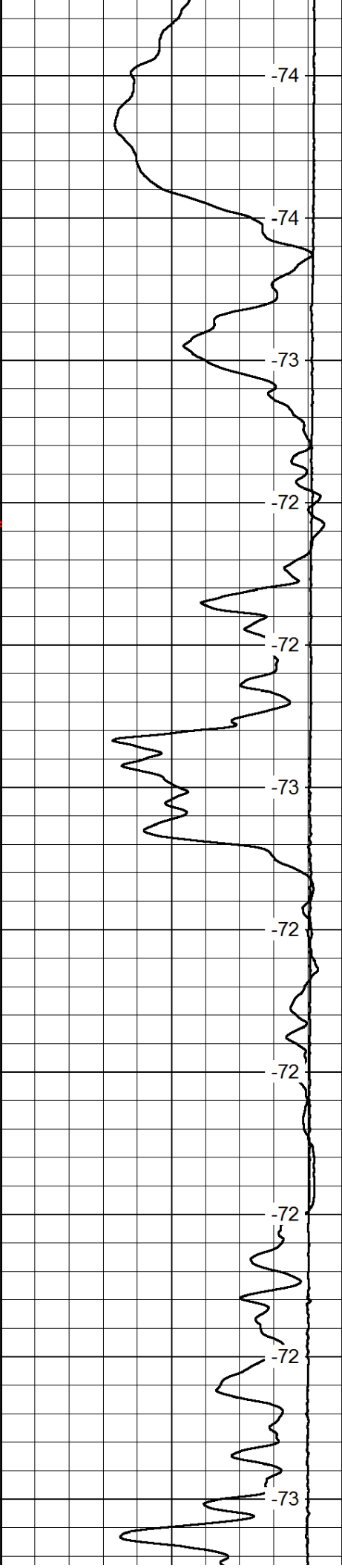
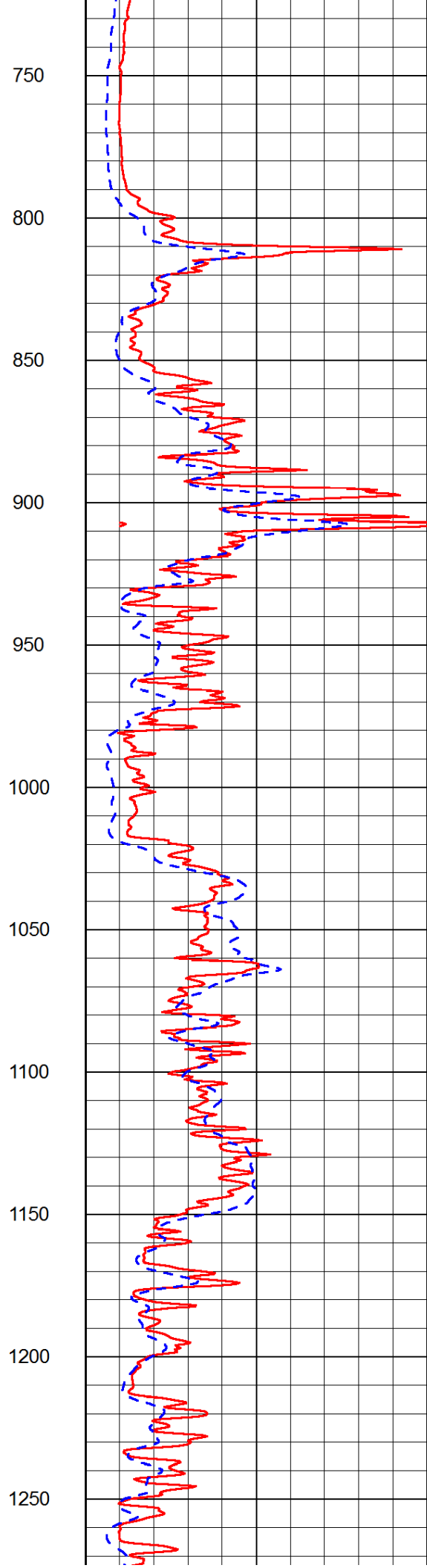
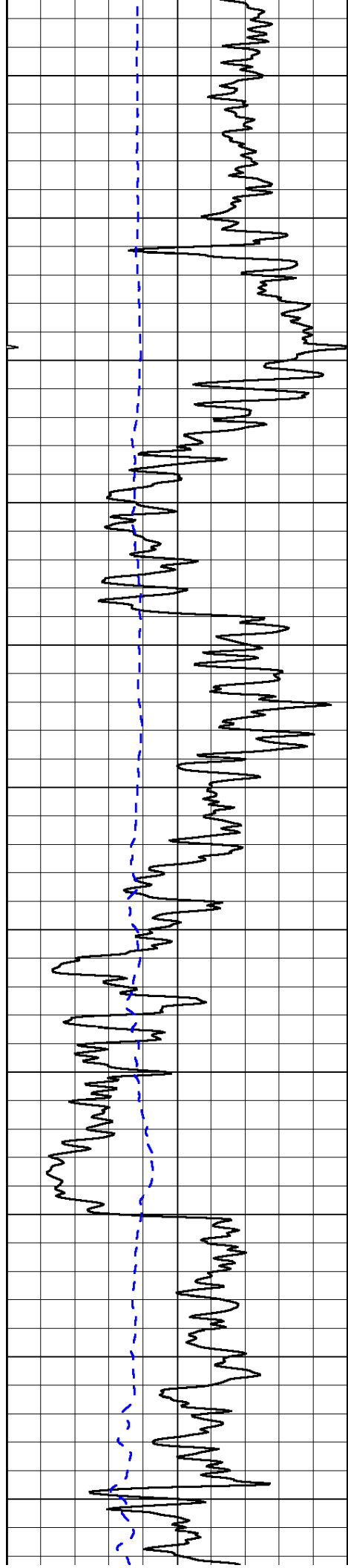
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Presentation Format: dil2in
Dataset Creation: Wed Nov 26 06:19:11 2014
Charted by: Depth in Feet scaled 1:600

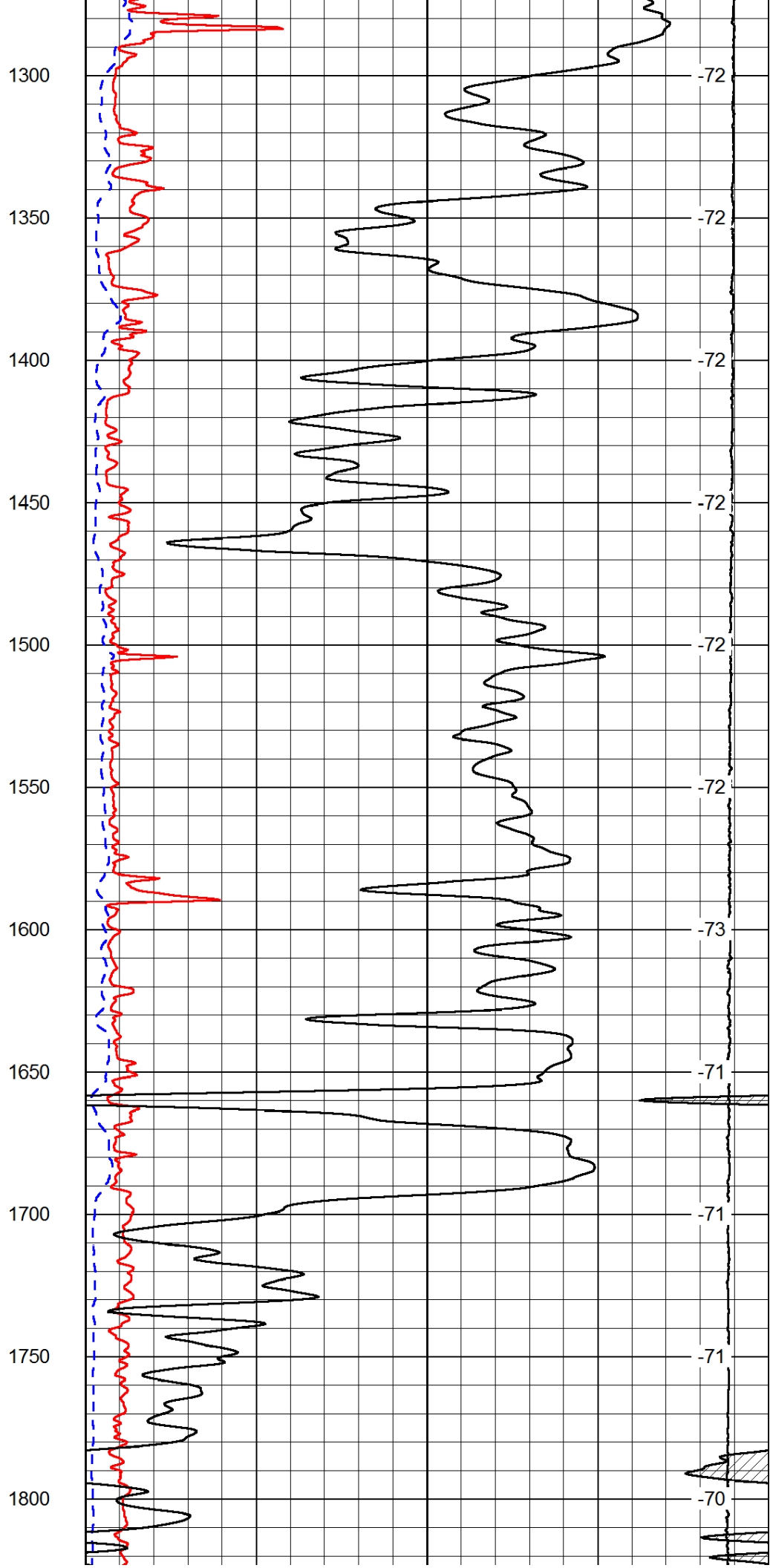
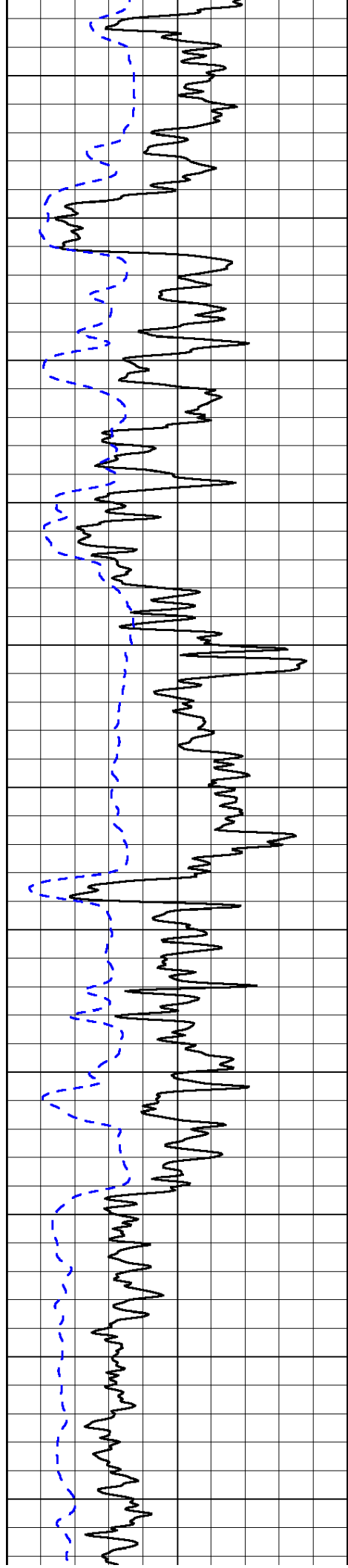
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-200	SP (mV)	0

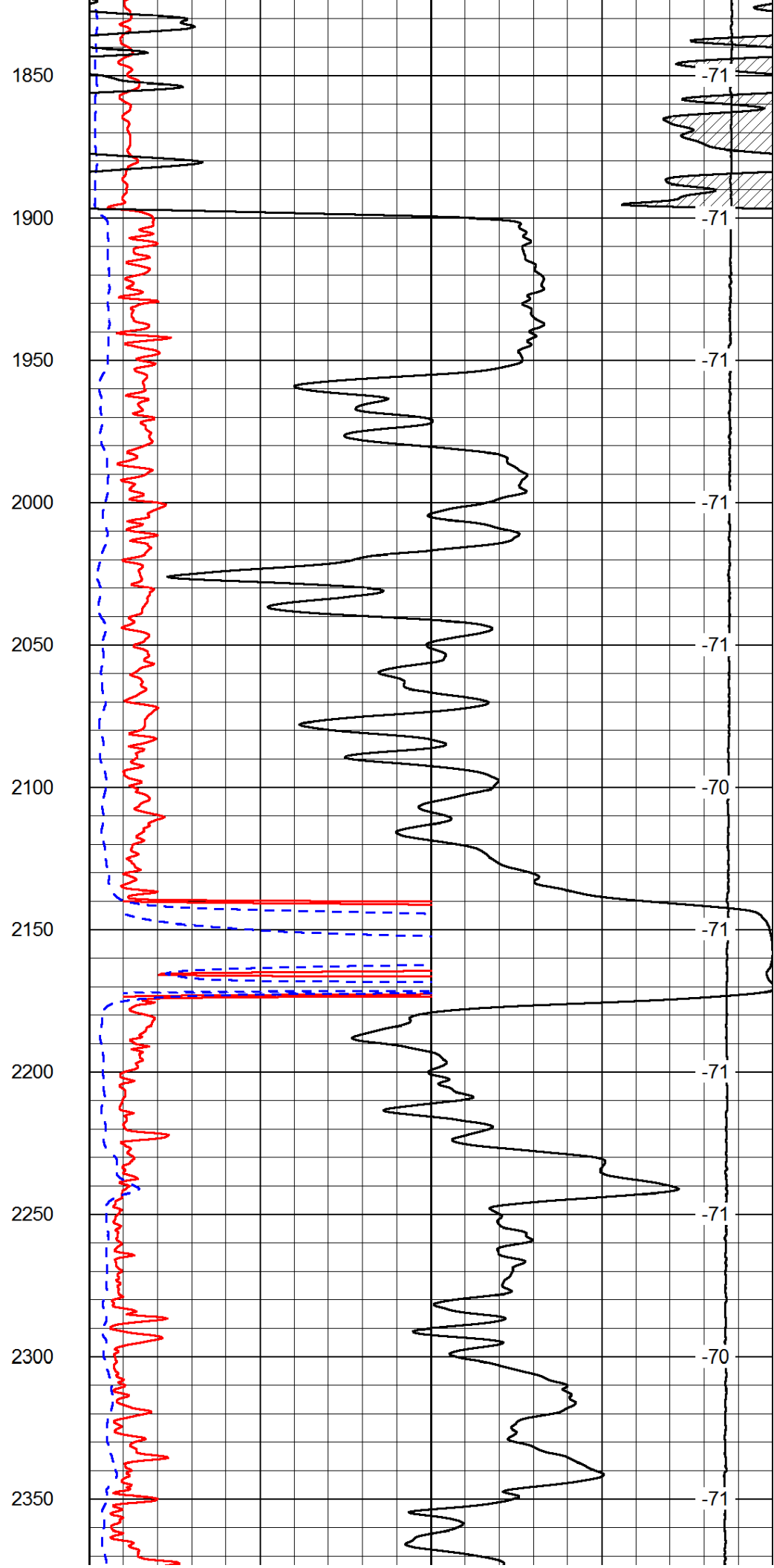
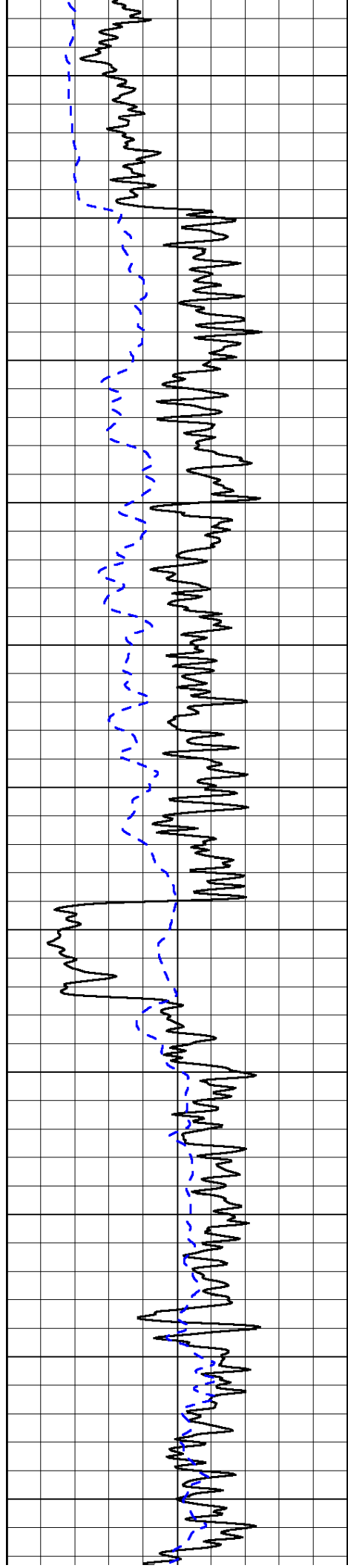
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

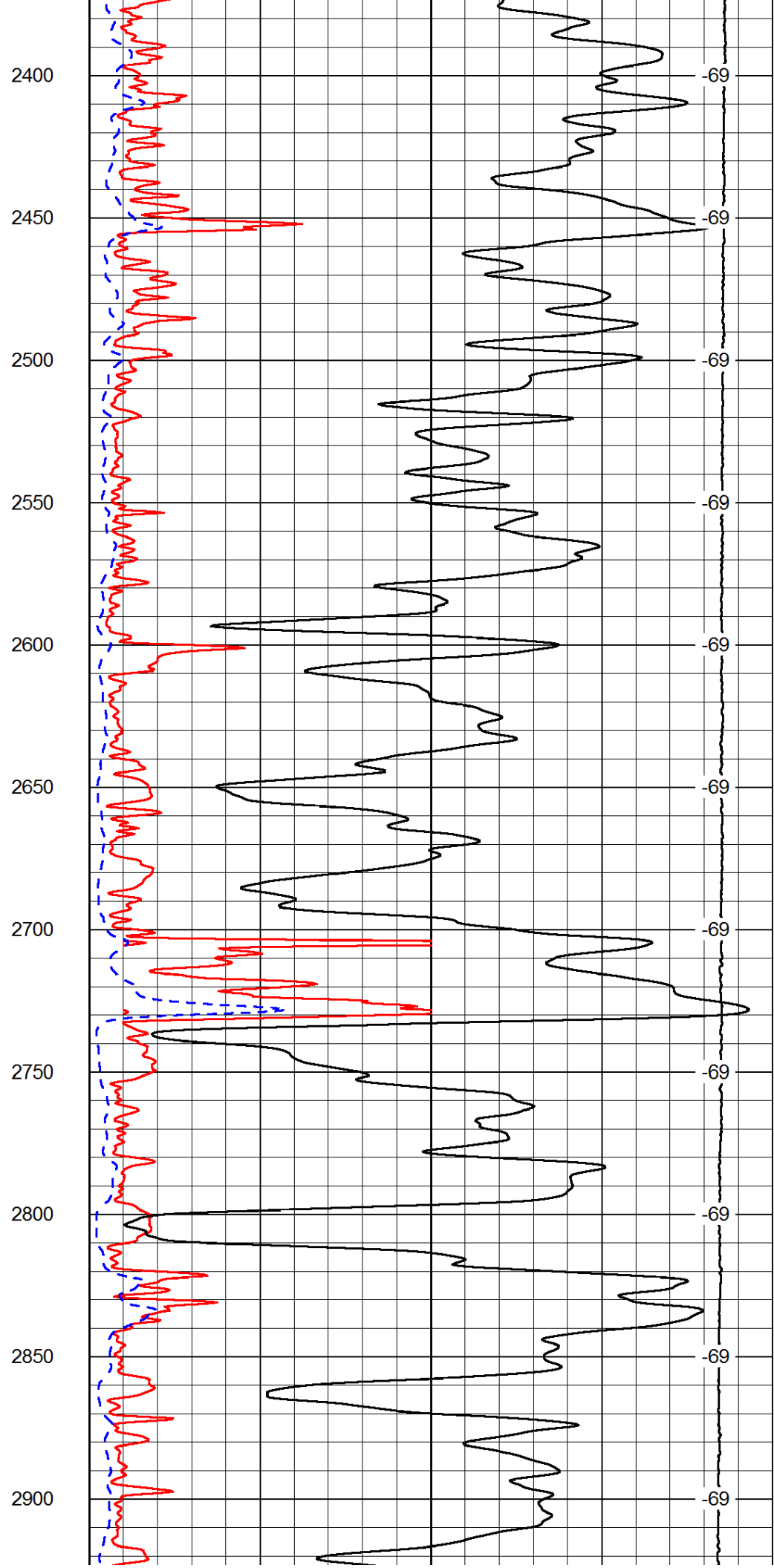
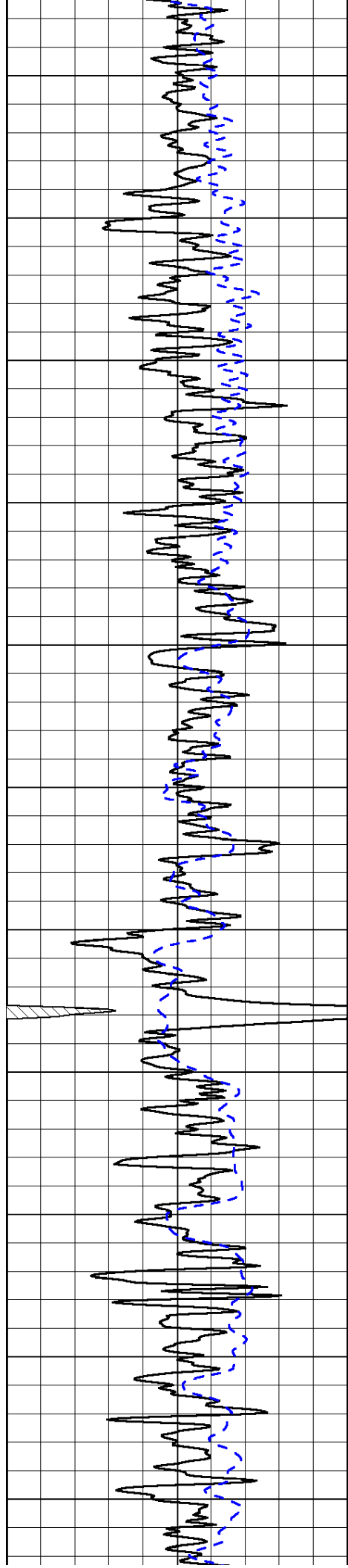
LSPD

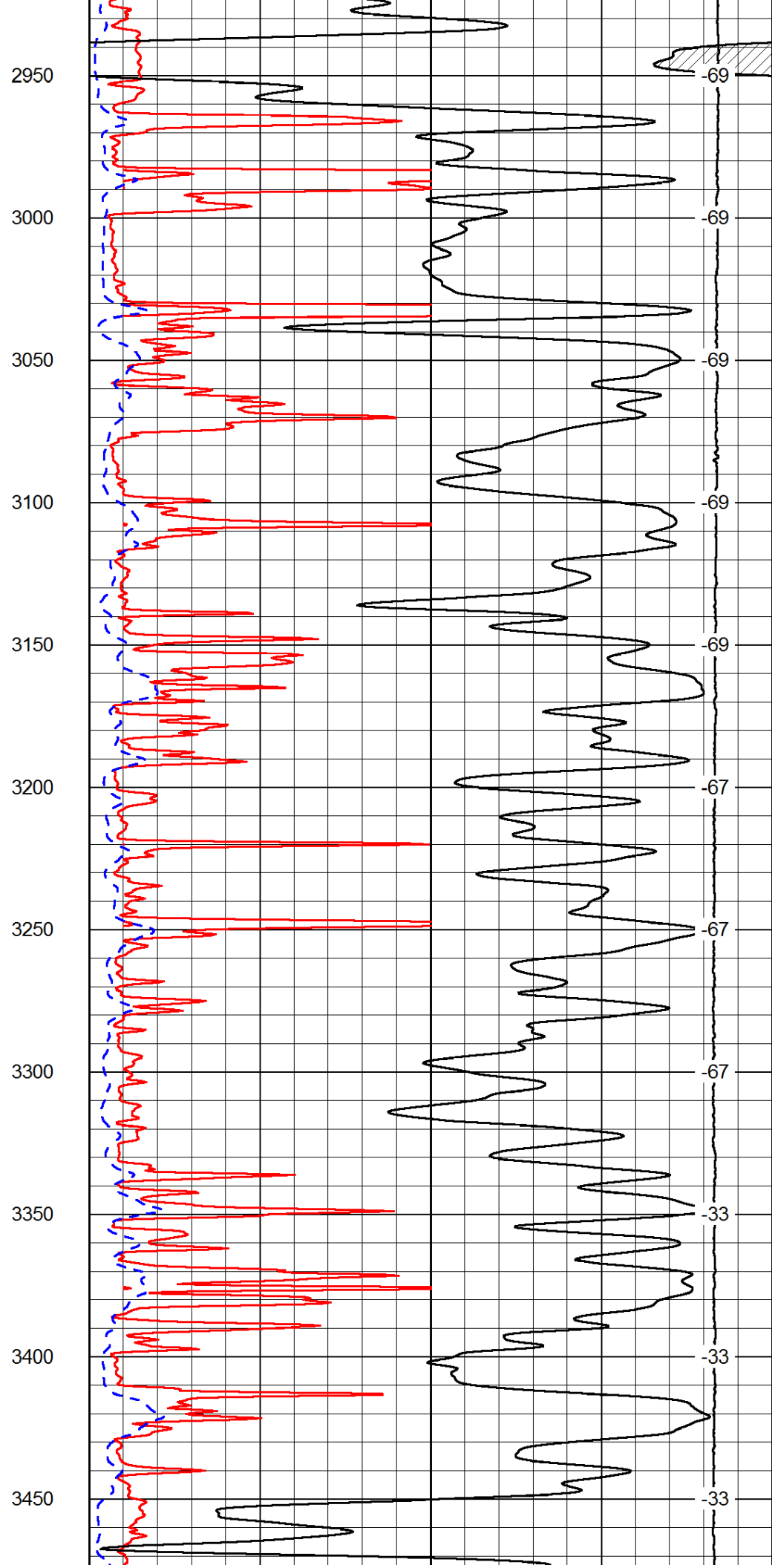
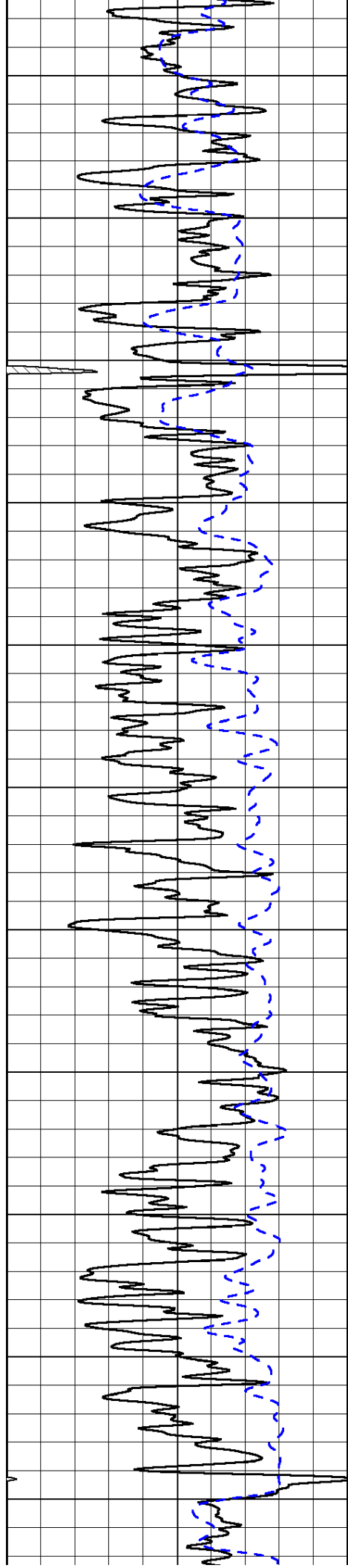


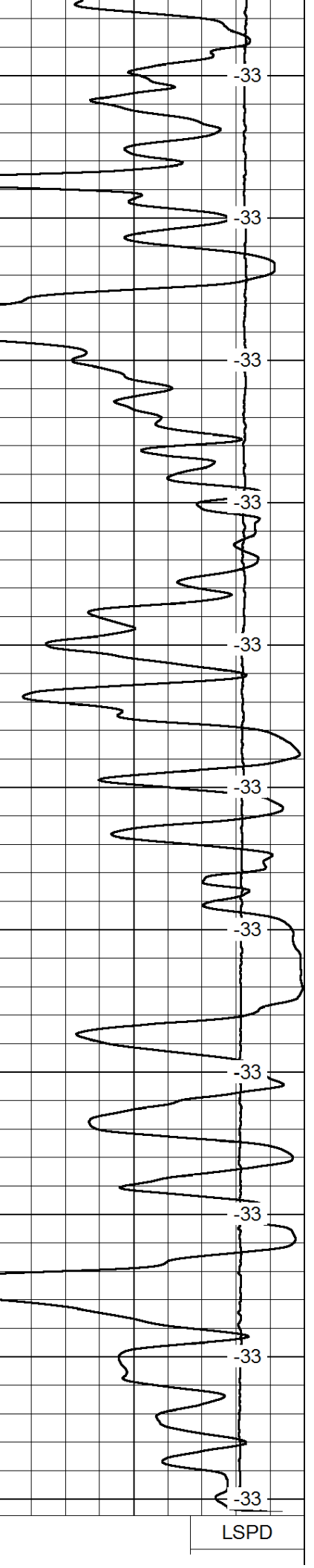
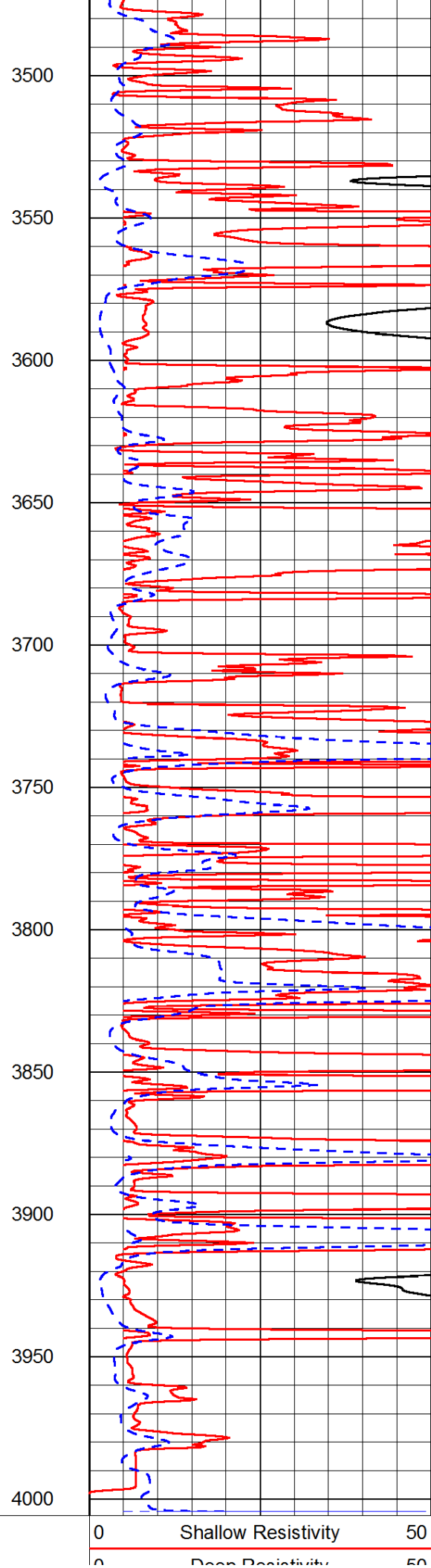
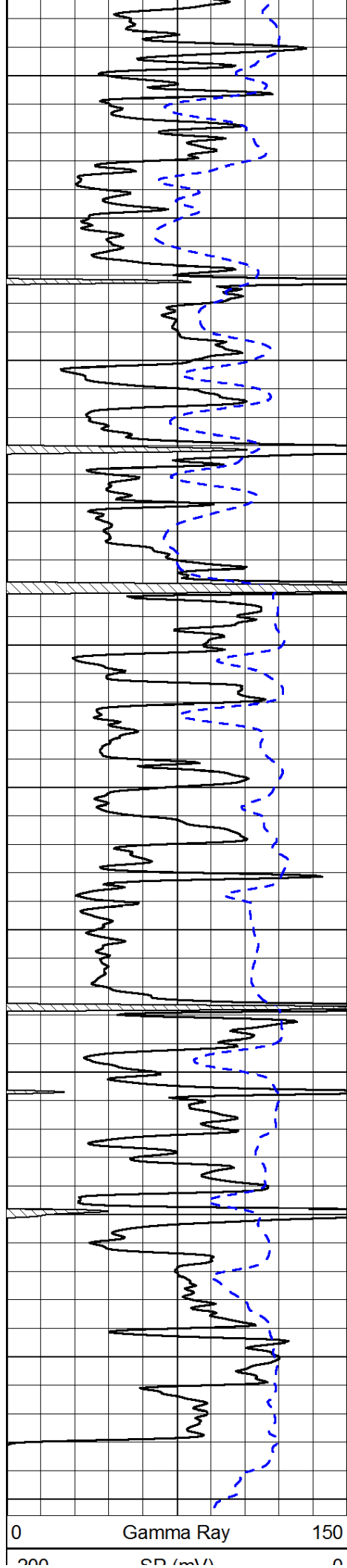








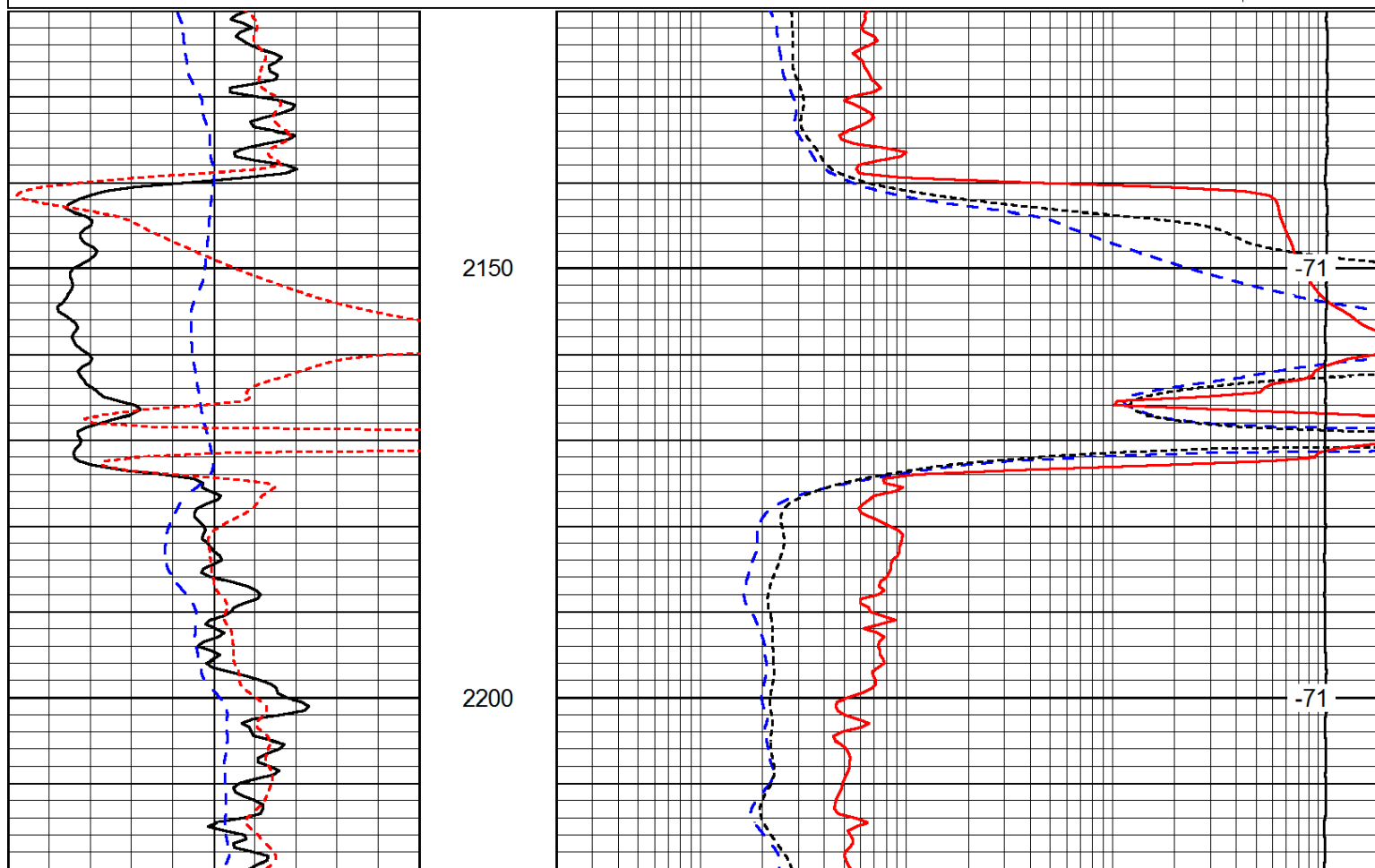




-200	SP (mV)	0	0	Deep Resistivity	50
			1000	Conductivity	0
			15000	Line Tension	0
			50	Shallow Resistivity	500
			50	Deep Resistivity	500

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 Dataset Pathname: DIL/chstck
 Presentation Format: dil
 Dataset Creation: Wed Nov 26 06:19:11 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
				LSPD	



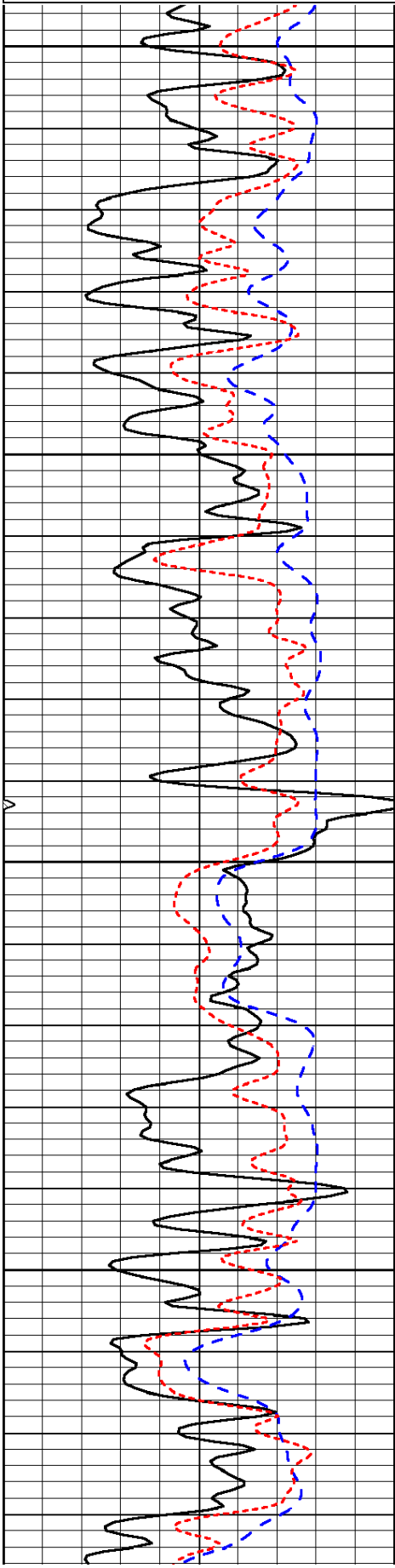
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-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000
			15000	Line Tension	0
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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

LSPD

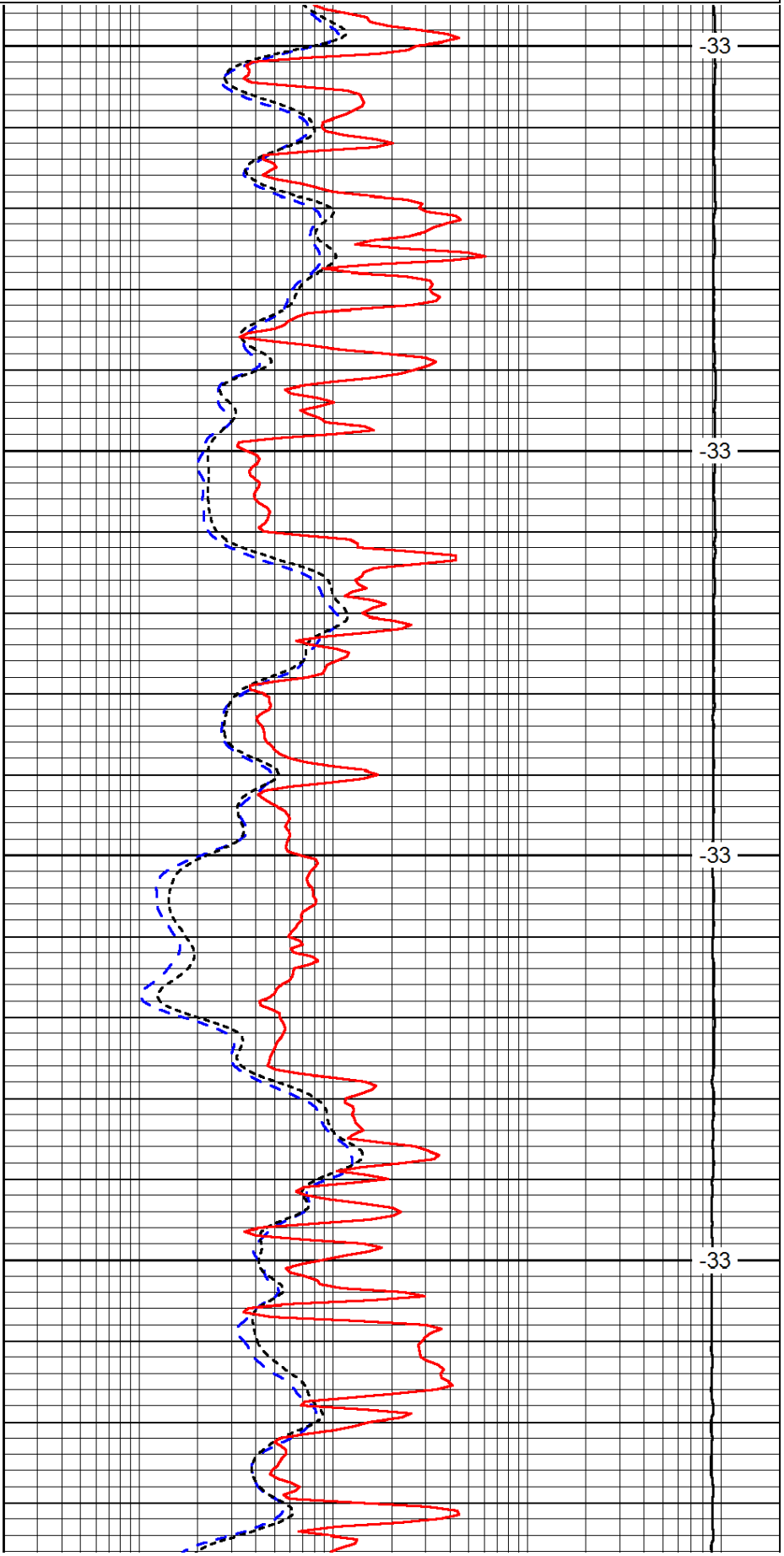


3350

3400

3450

3500

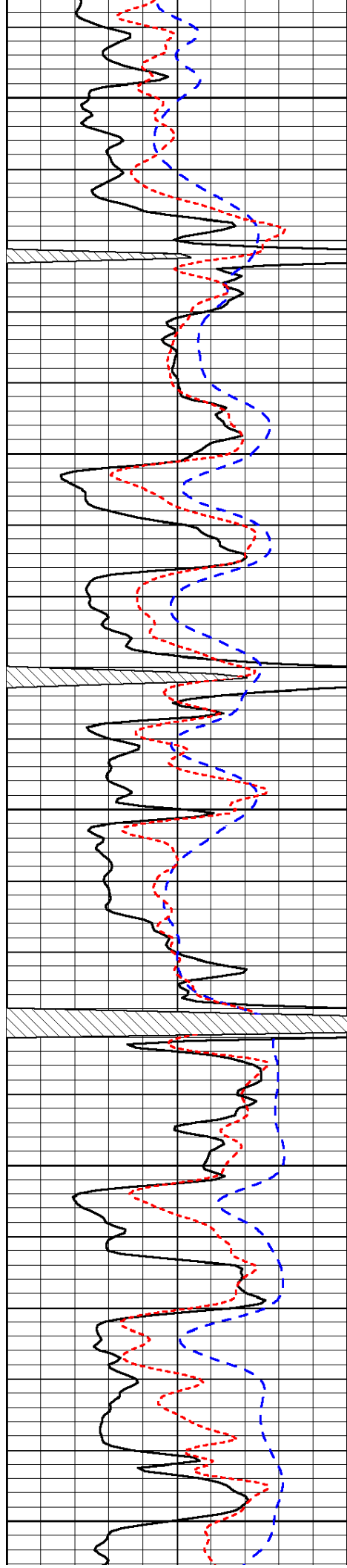


-33

-33

-33

-33



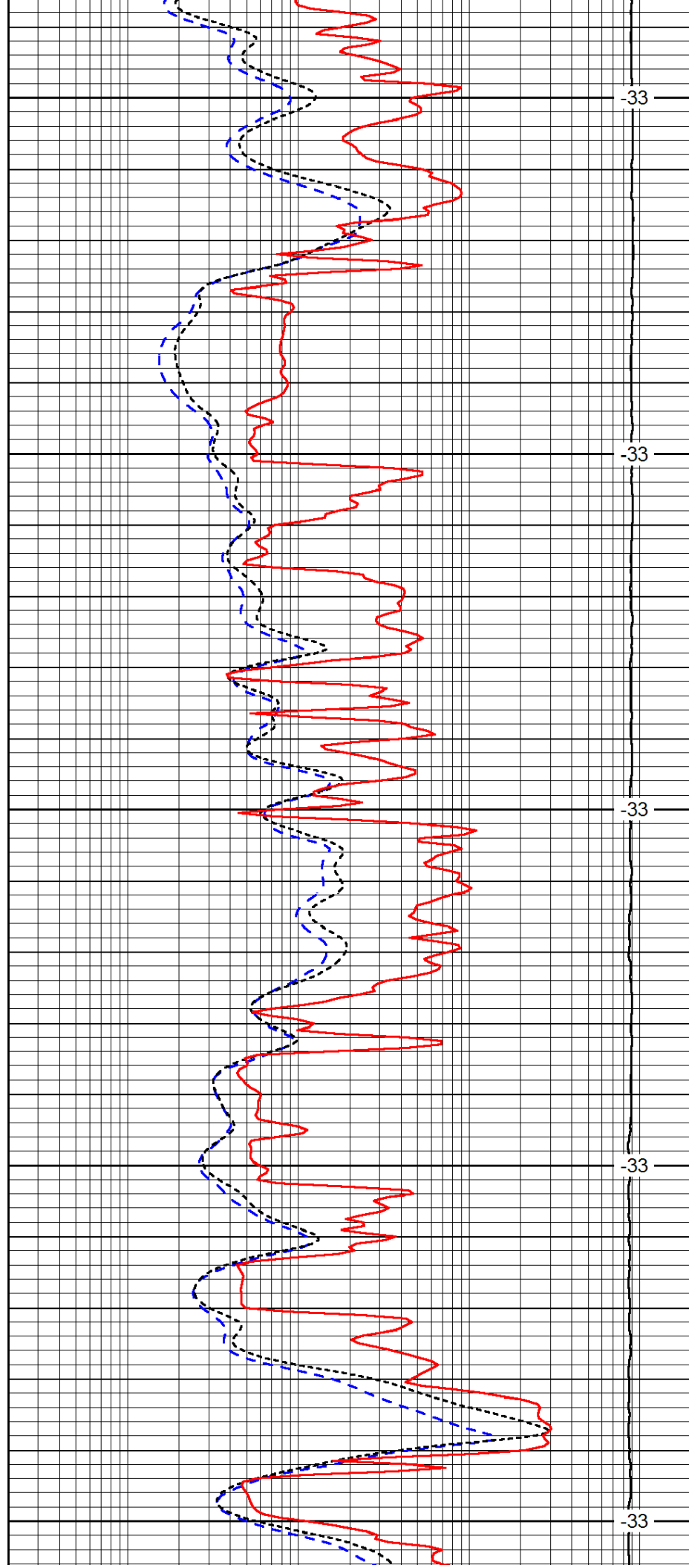
3550

3600

3650

3700

3750



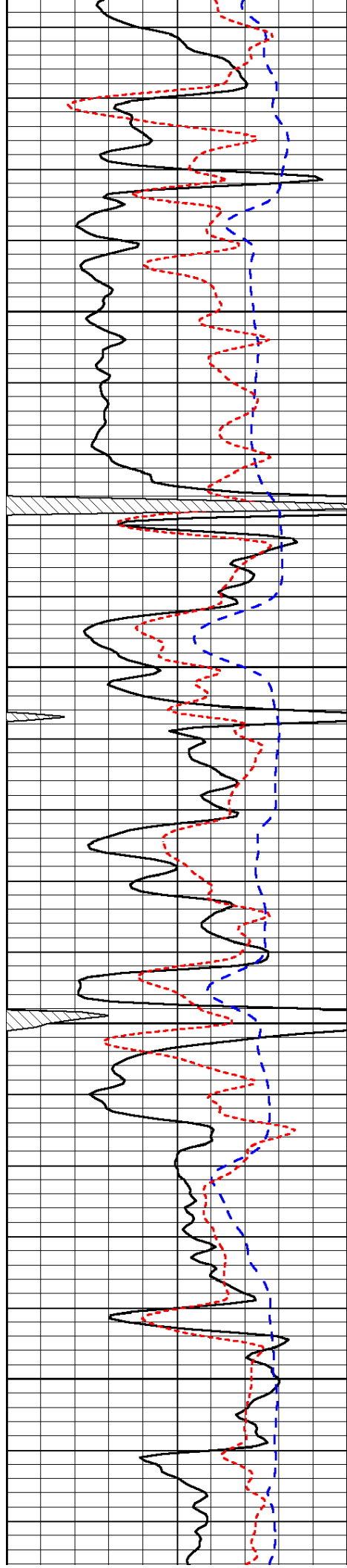
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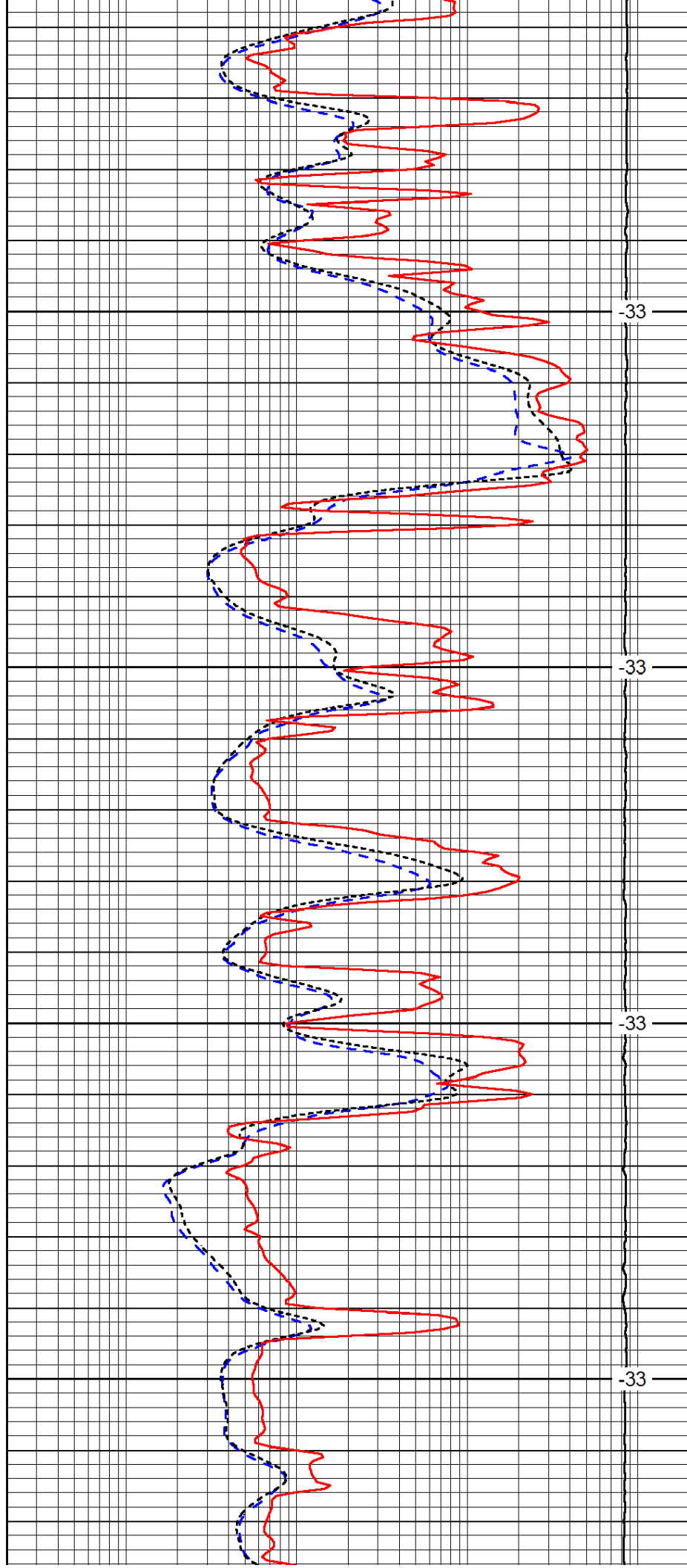


3800

3850

3900

3950

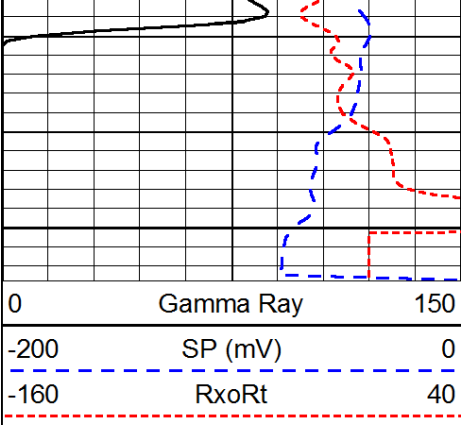


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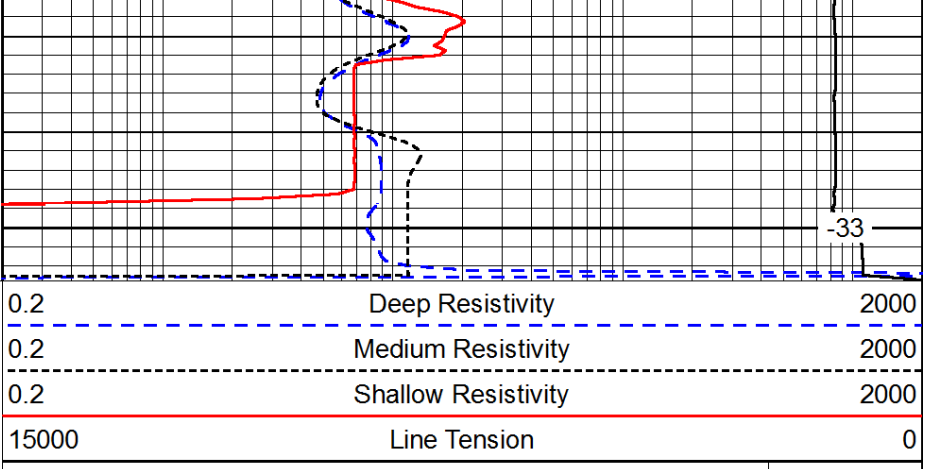
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-33

-33



4000



LSPD