



Pioneer Energy Services

Dual Induction Log

API No.

15-063-22,242-00-00

Company Cobalt Energy, LLC.

Well Reinecker 'A' No. 1-17

Field Q-B

County Gove

State

Kansas

Location

1932' FSL & 1529' FEL

Sec: 17

Twp: 11s

Rge: 26w

Elevation

Permanent Datum Ground Level Elevation 2654
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2661
D.F. 2654
G.L. 2654

Date

2-12-2015

Run Number

One

Depth Driller

4550

Depth Logger

4550

Bottom Logged Interval

4549

Top Log Interval

250

Casing Driller

8.625 @ 267

Casing Logger

264

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1200

Density / Viscosity

9.5 66

pH / Fluid Loss

10.0 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

.5 @ 62

Rmf @ Meas. Temp

.64 @ 62

Rmc @ Meas. Temp

.15 @ 62

Source of Rmf / Rmc

Charts

Rm @ BHT

.43 @ 122

Operating Rig Time

3 Hours

Max Rec. Temp. F

122

Equipment Number

108

Location

Hays

Recorded By

D. Fischer

Witnessed By

Corey Baker

<<< 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

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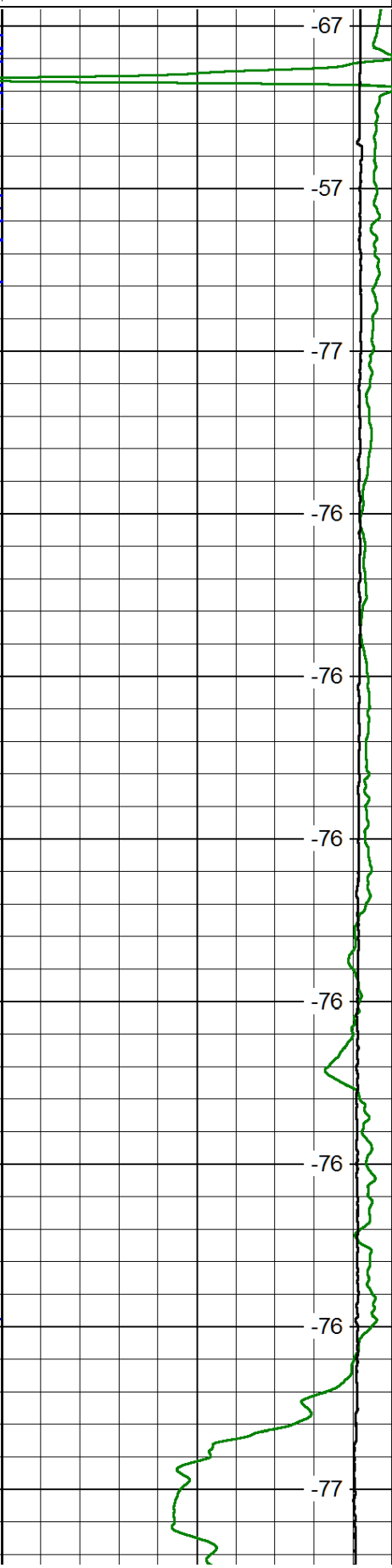
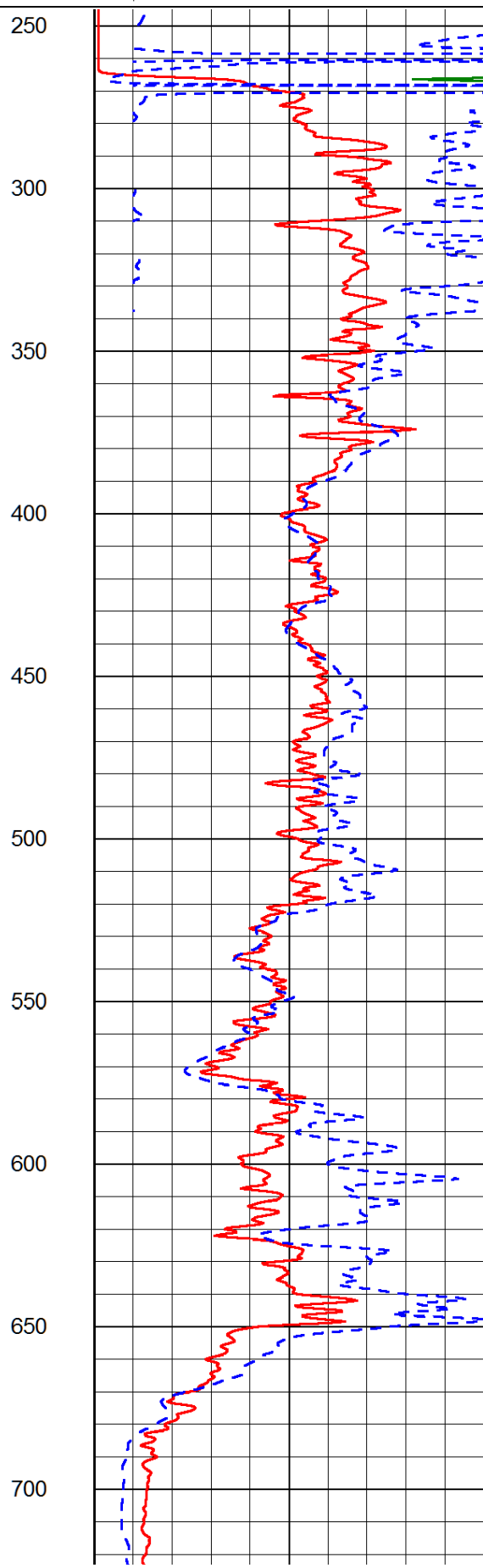
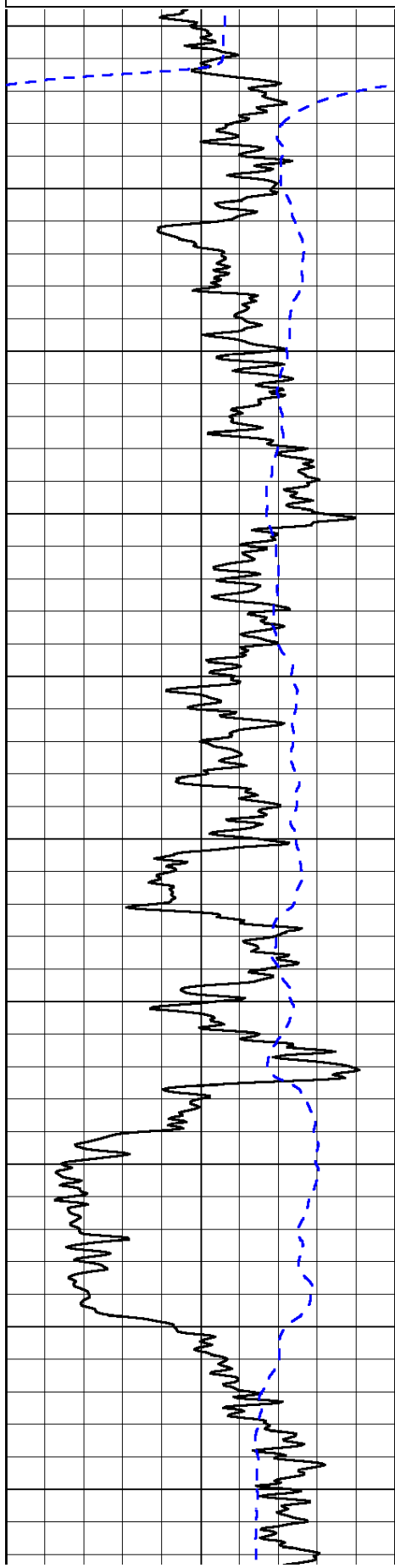
I-70 & Quinter Ks. Exit, North to Old 40, 1 North, 1 East, 1/2 North, West Into.

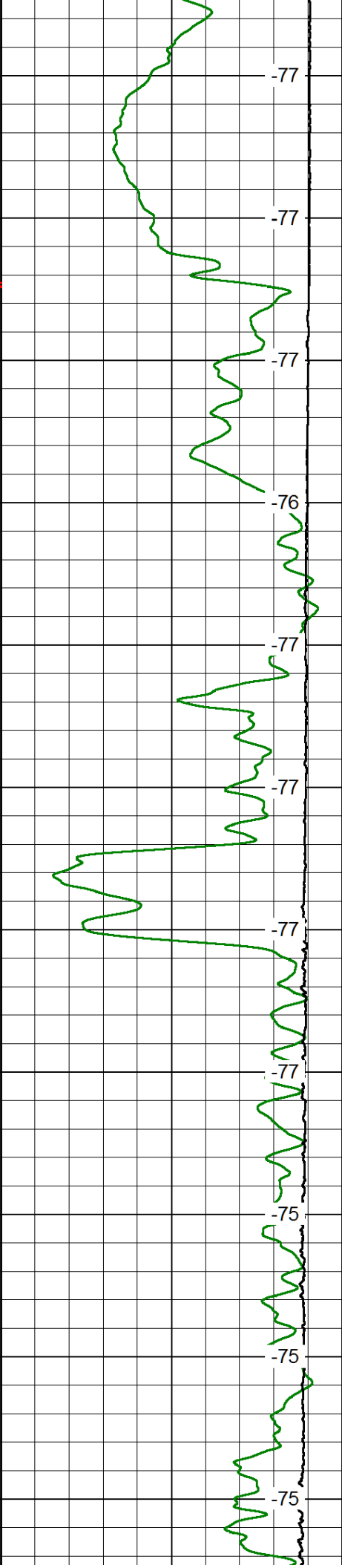
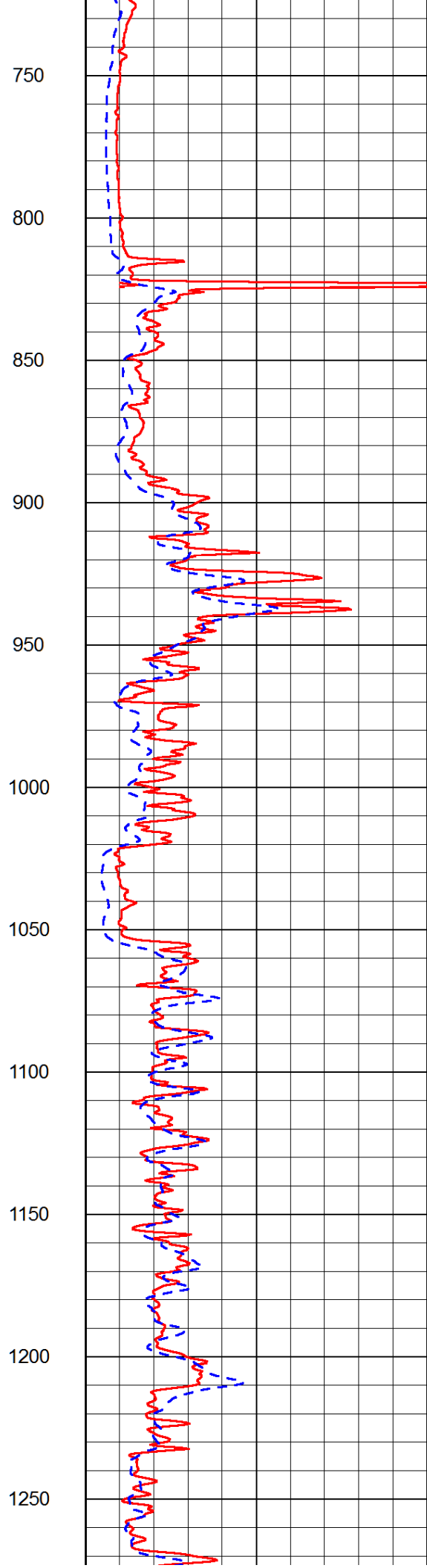
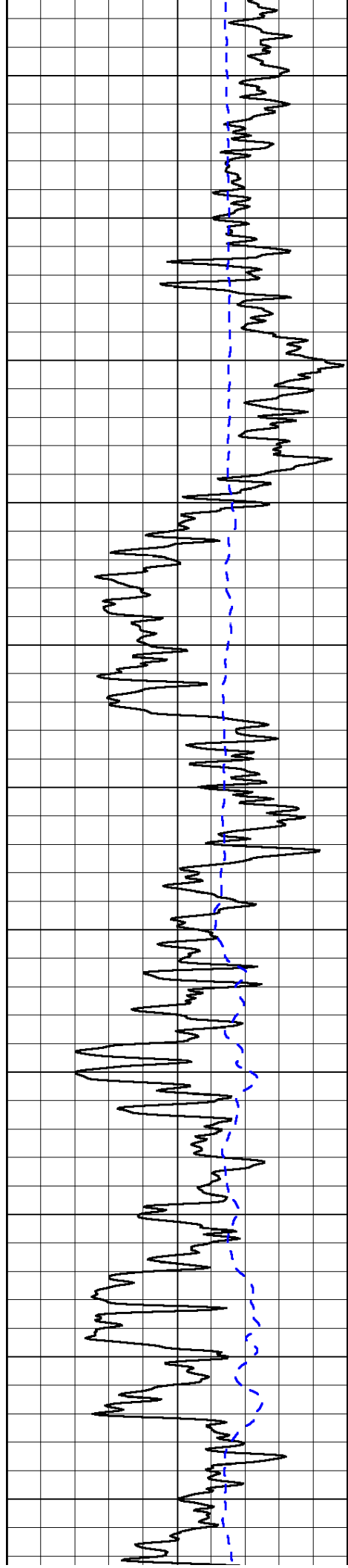
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Dataset Creation: Thu Feb 12 06:25:35 2015
Charted by: Depth in Feet scaled 1:600

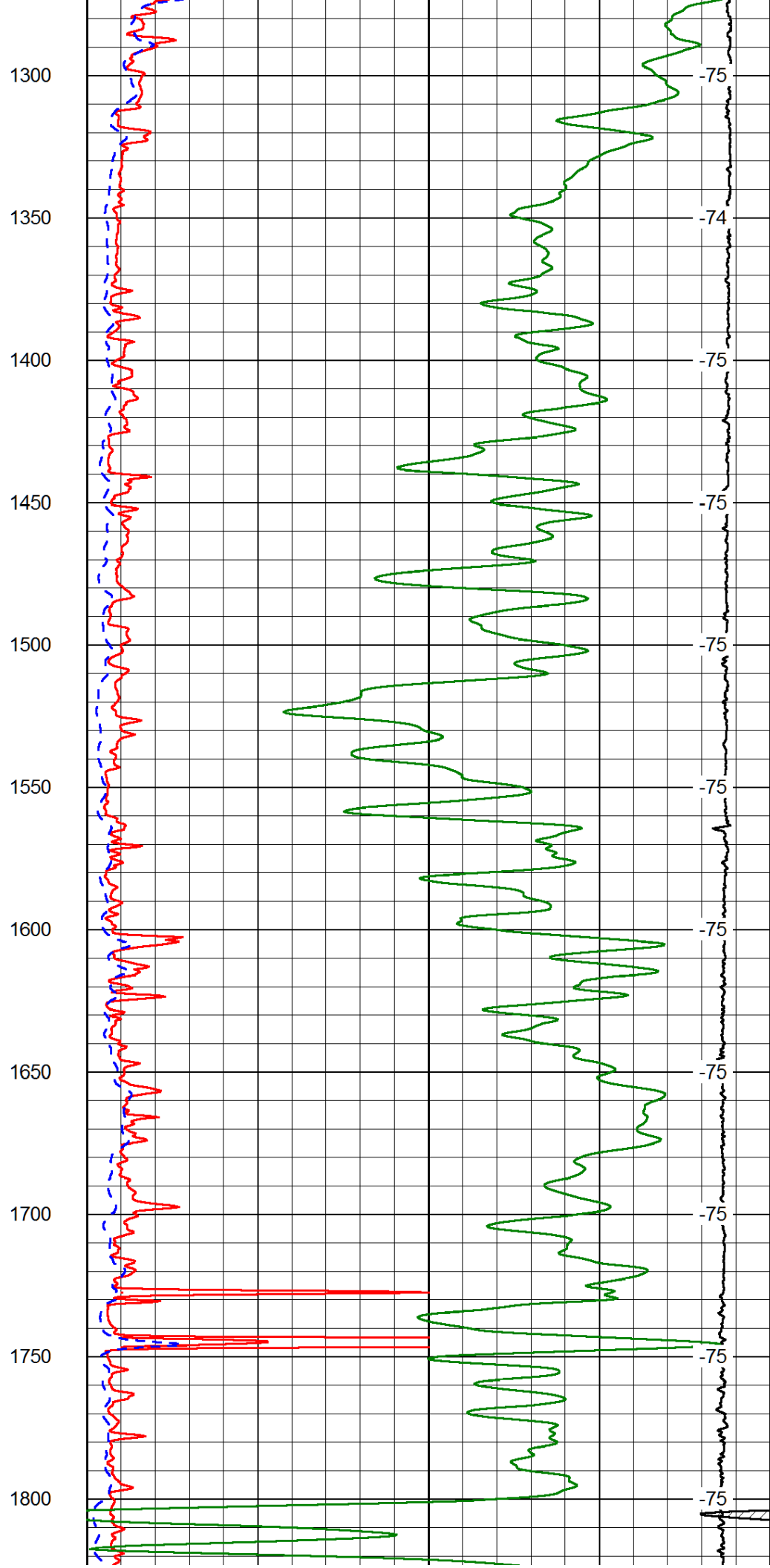
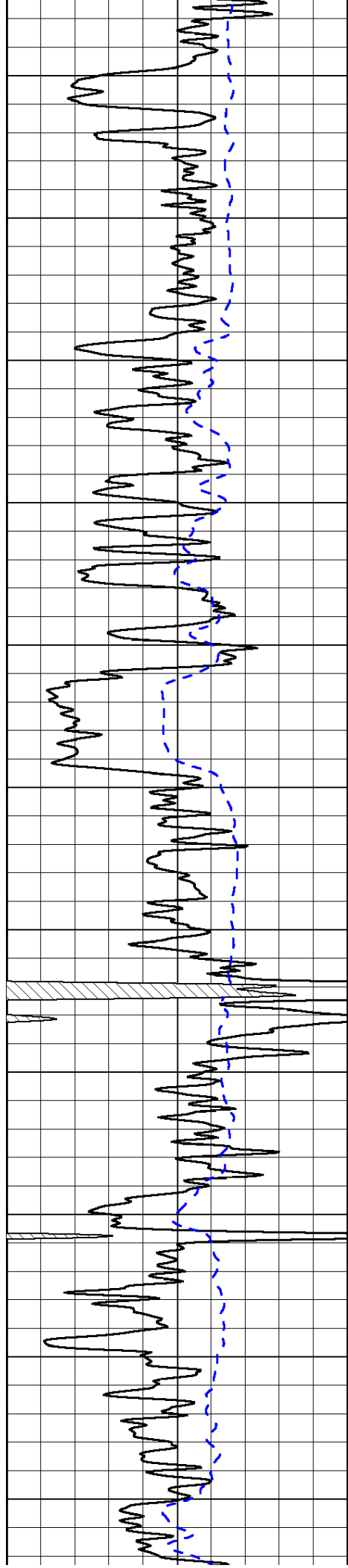
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-200	SP (mV)	0

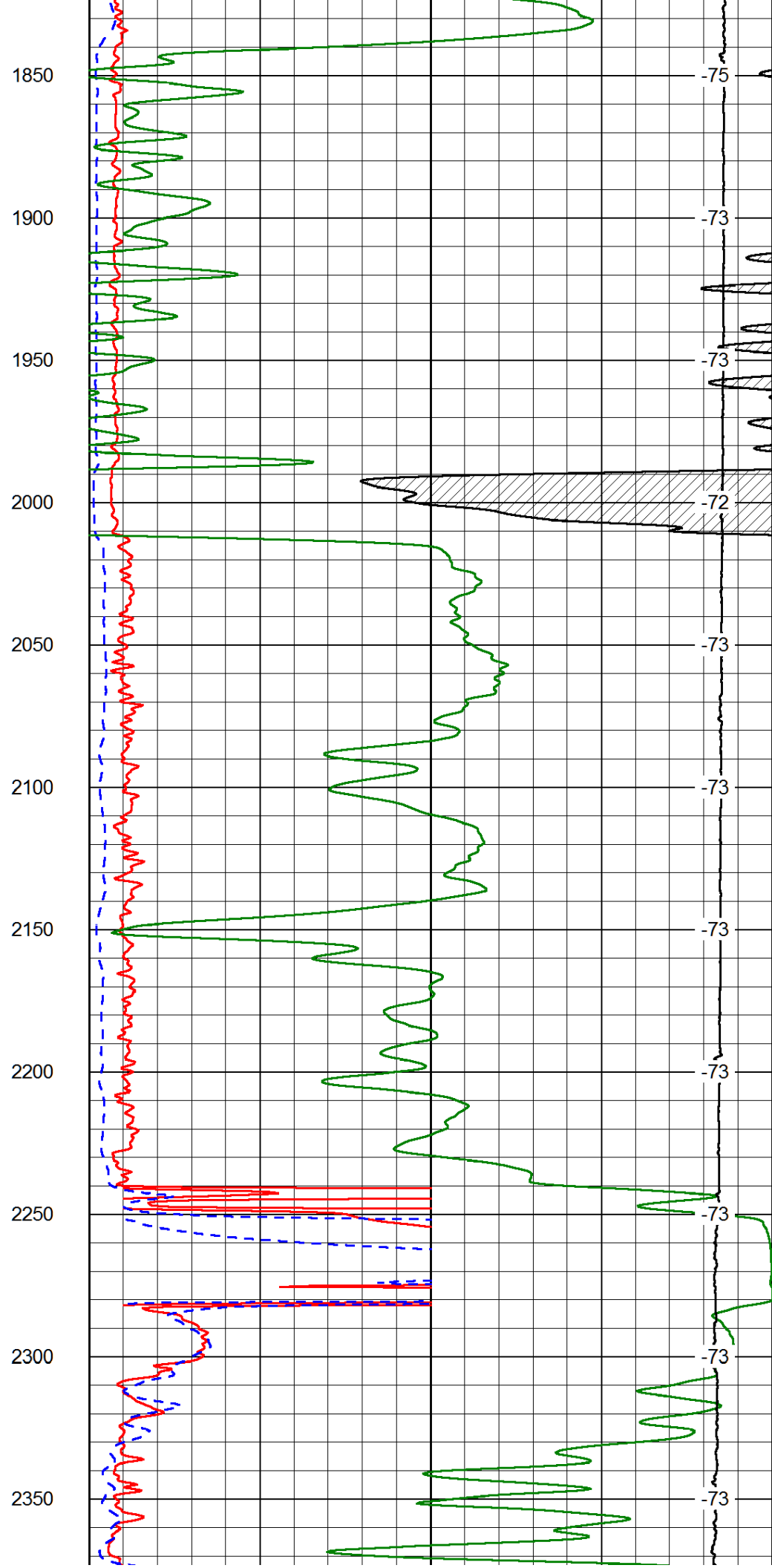
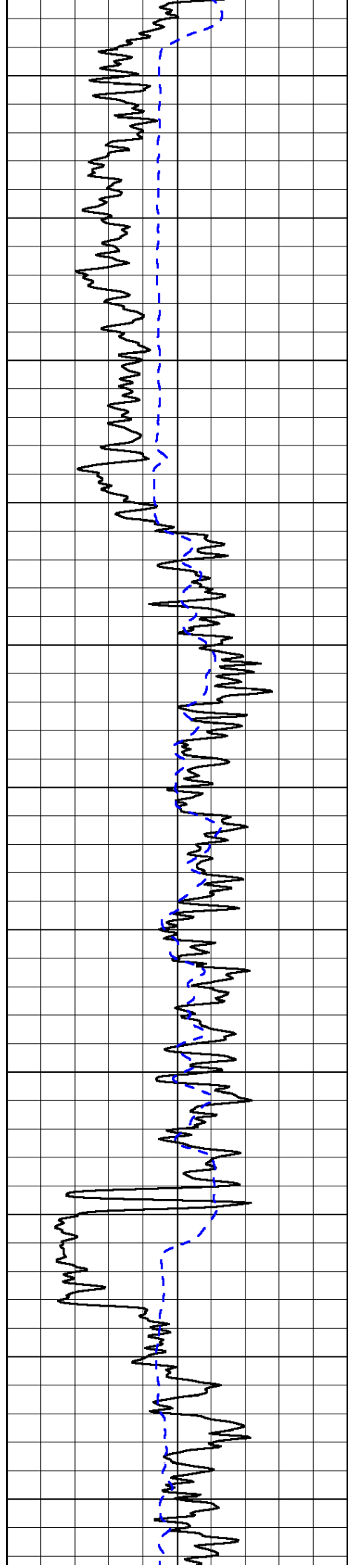
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

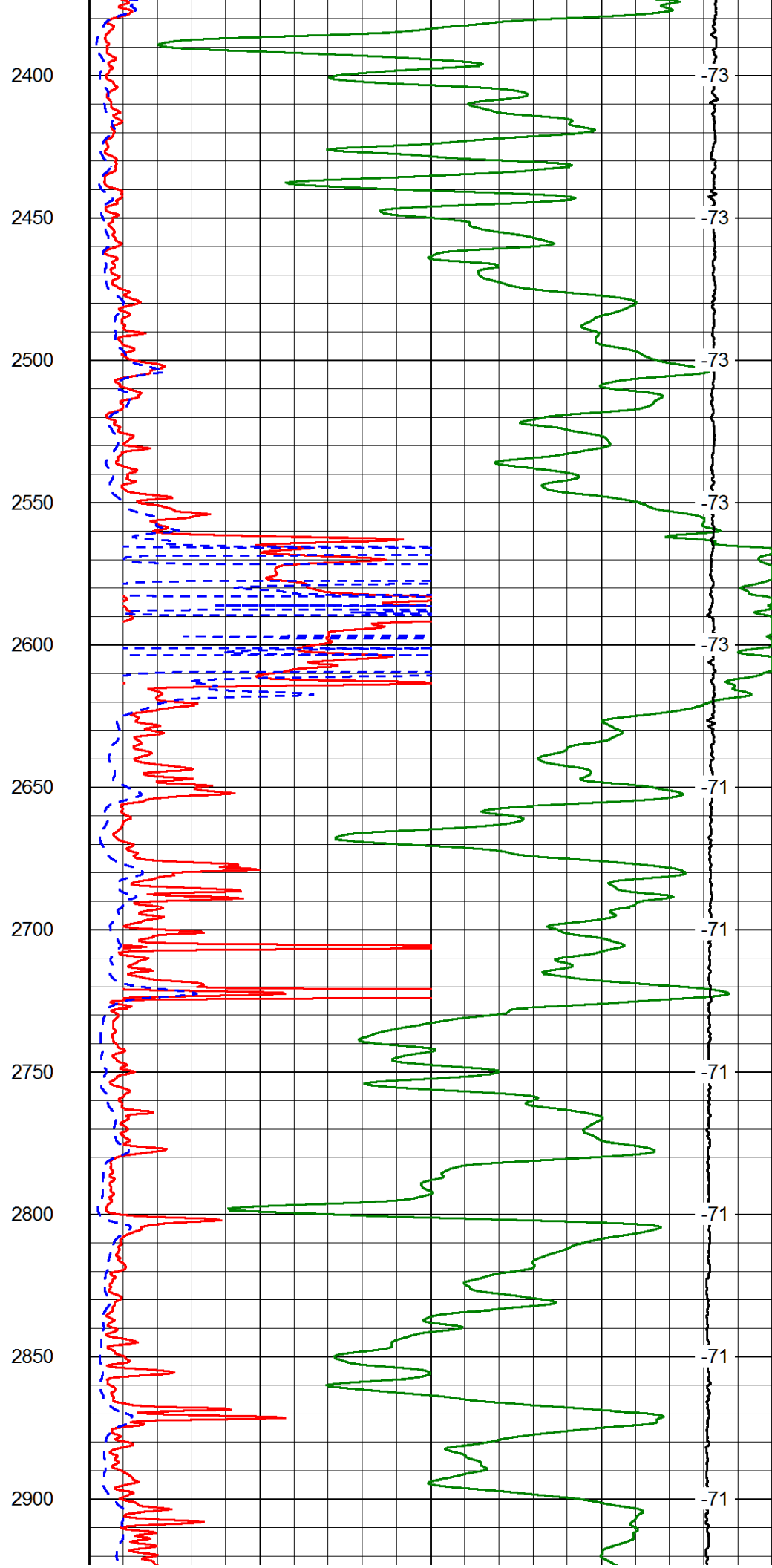
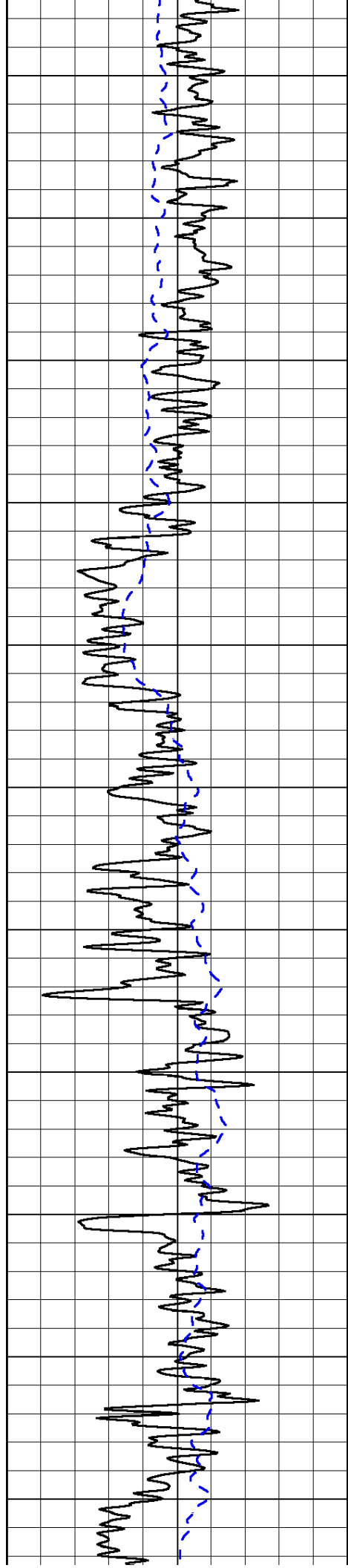
LSPD

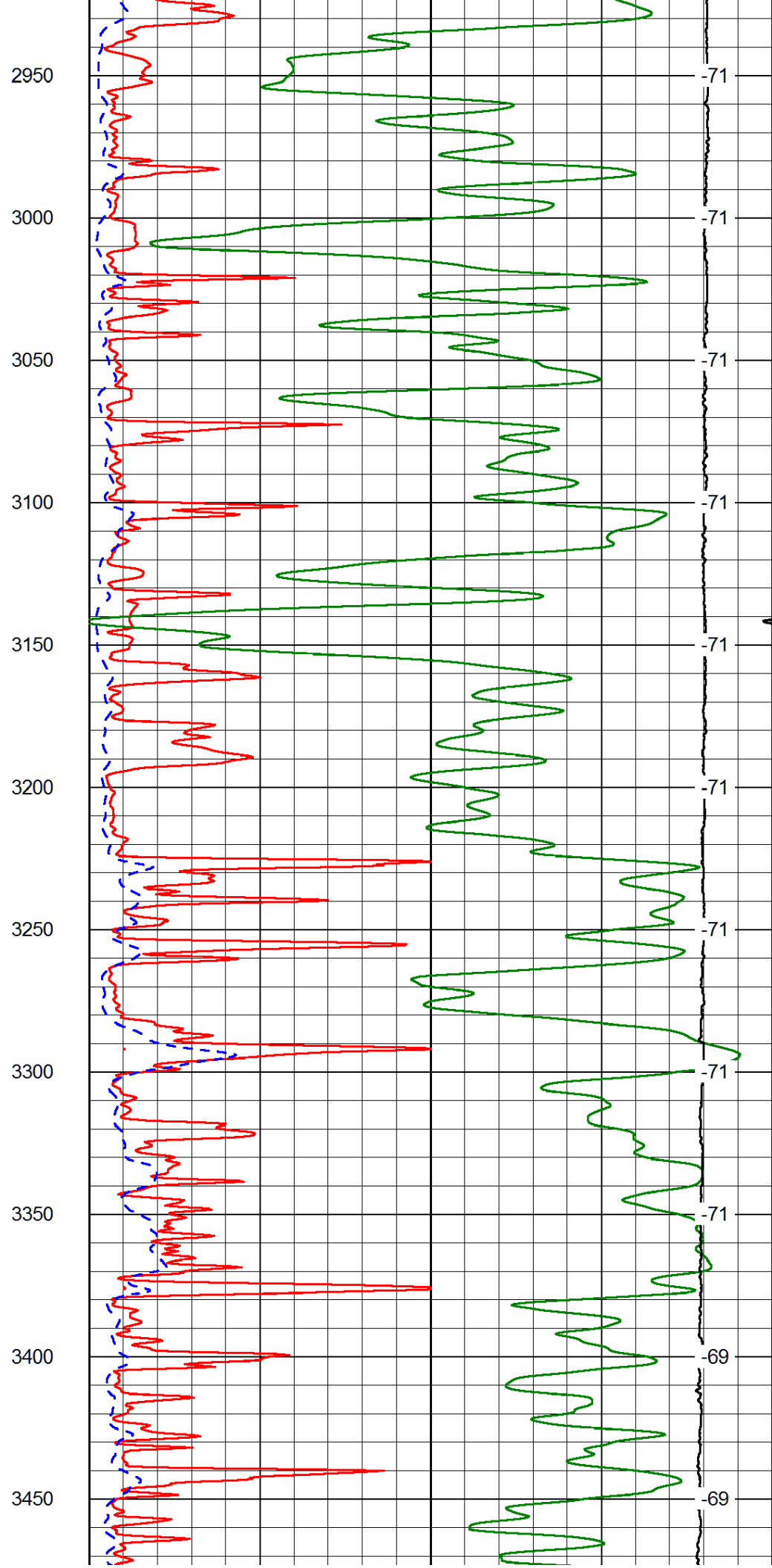
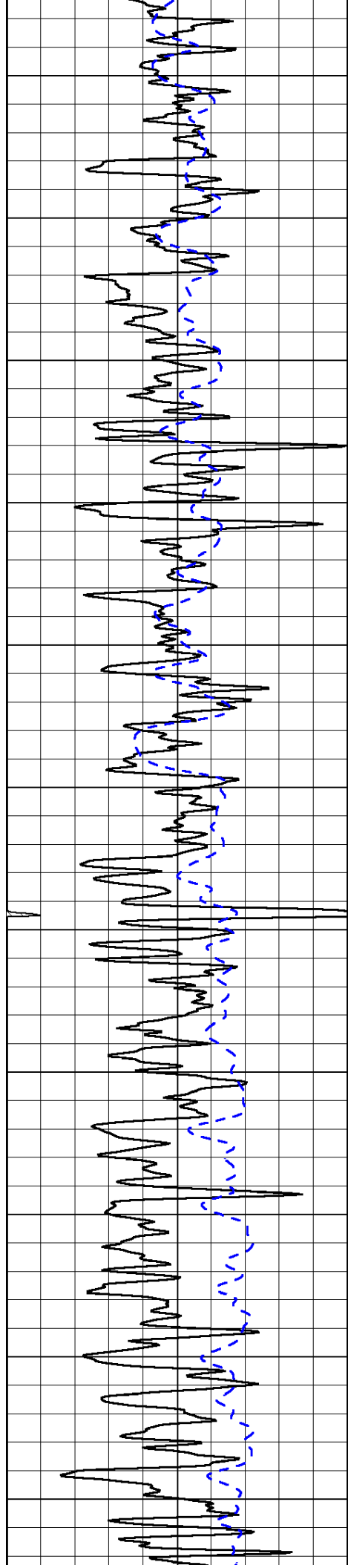


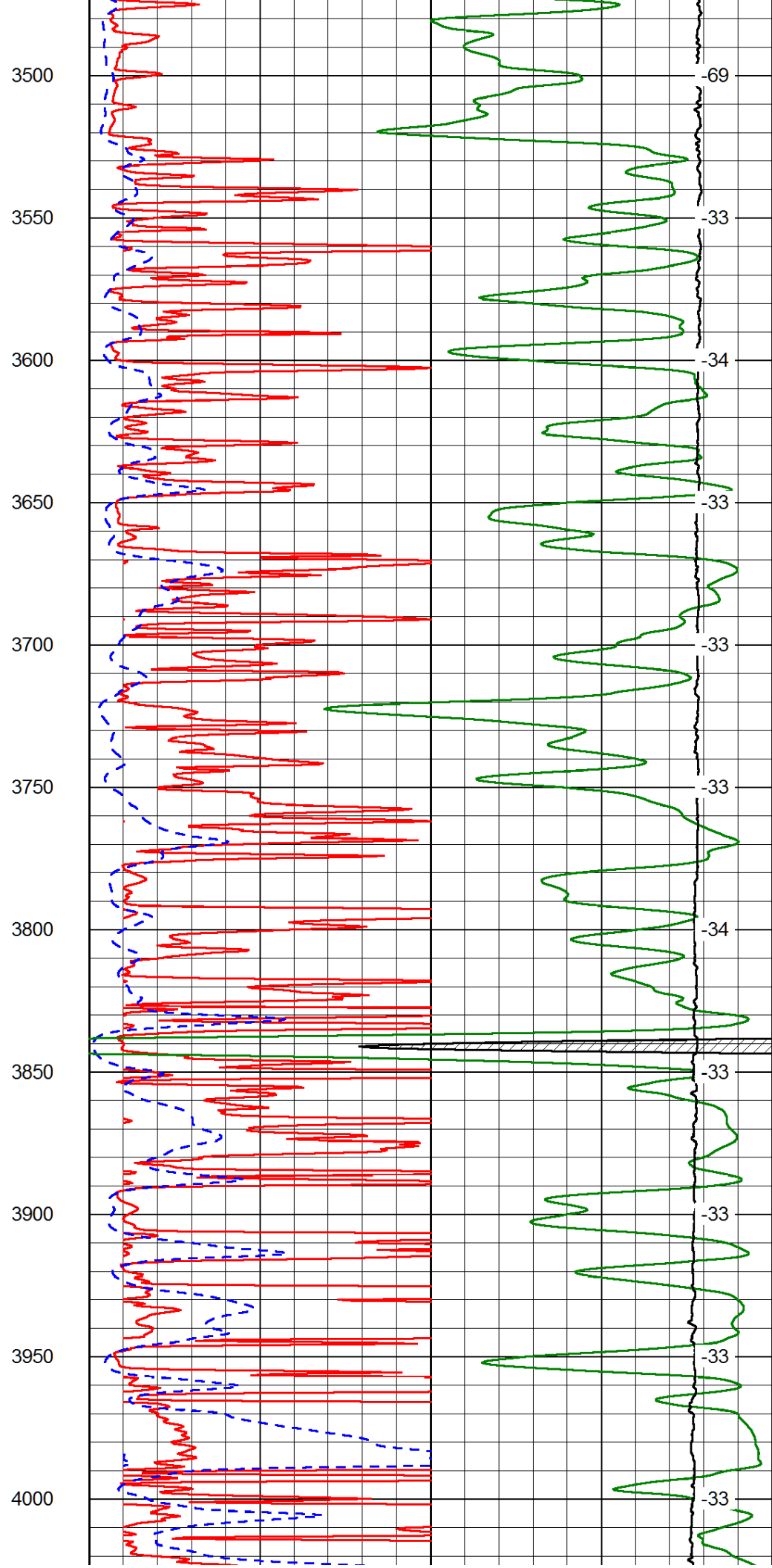
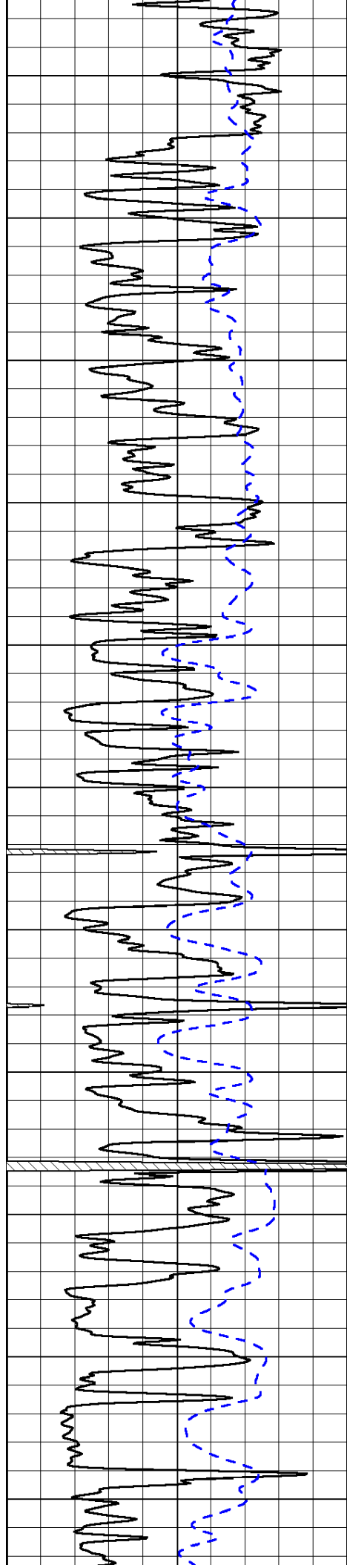


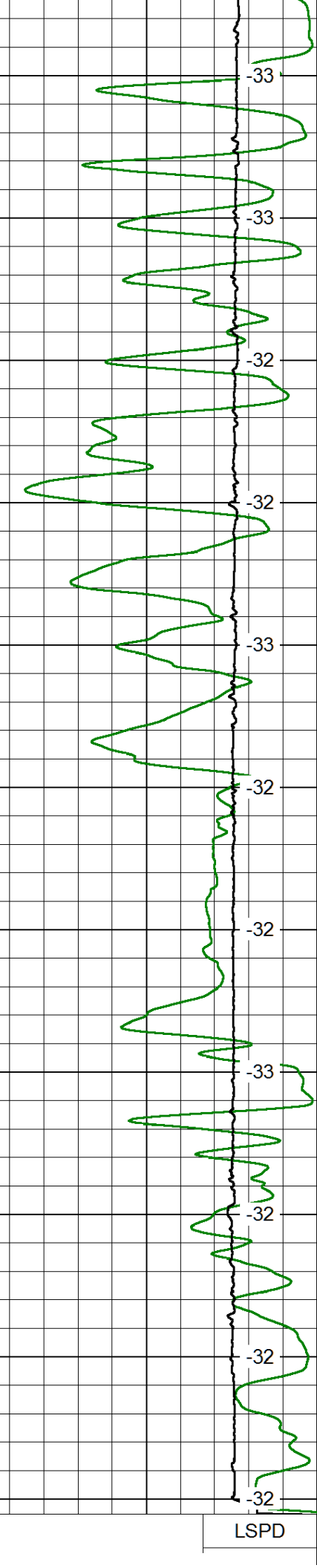
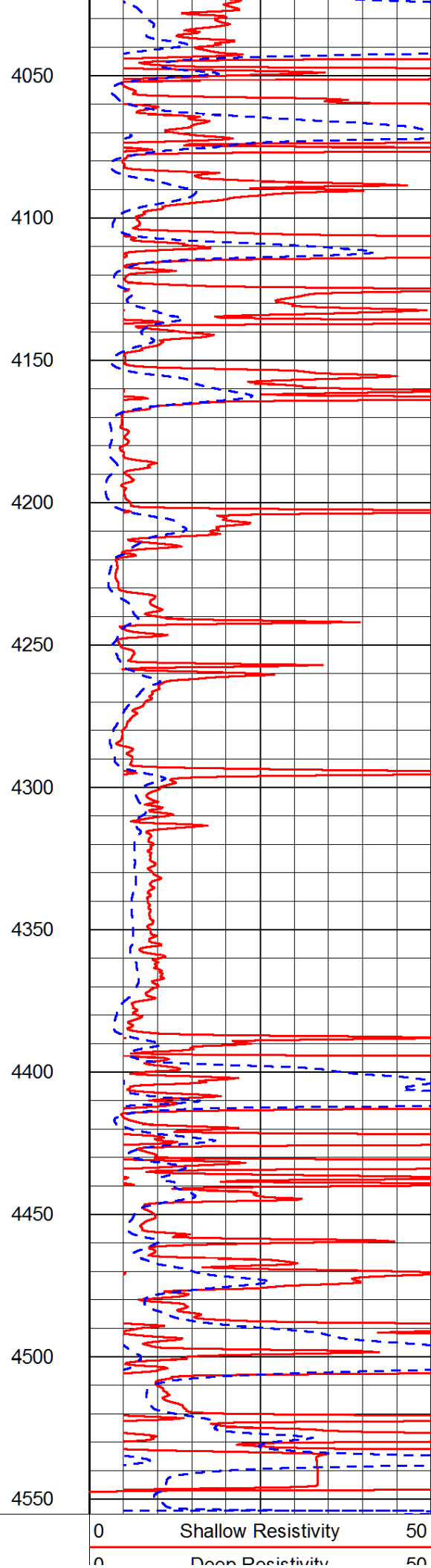
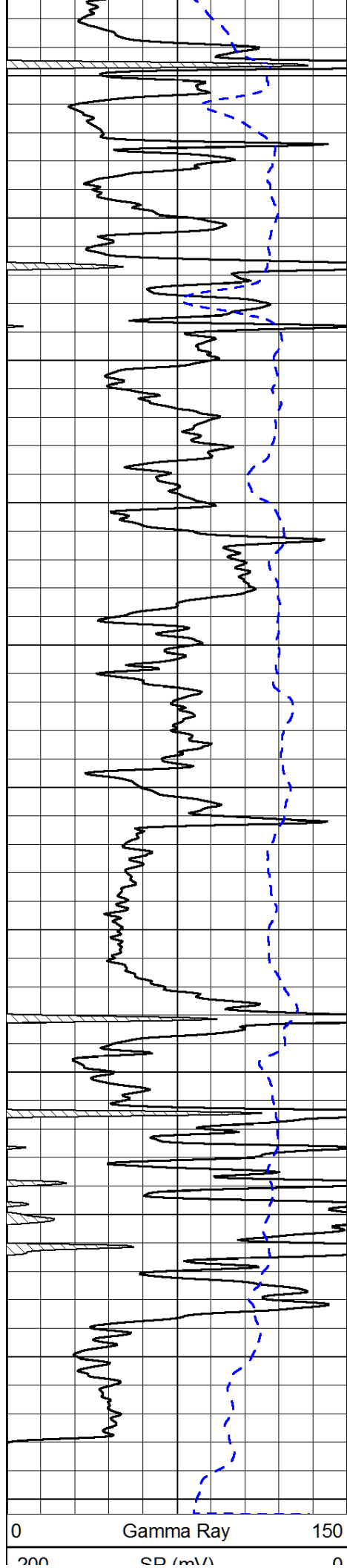






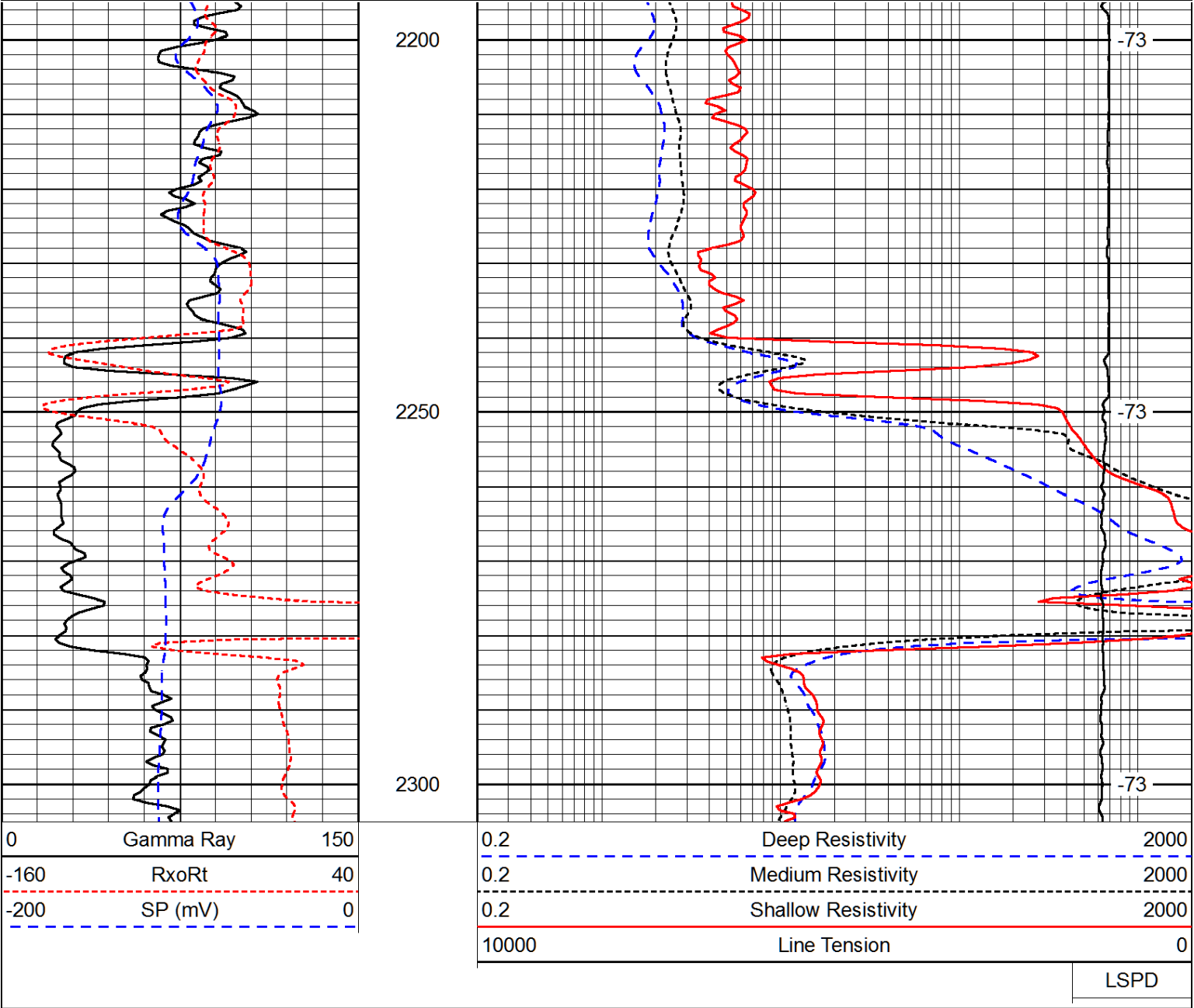






200	SP (mV)	0	0	Deep Resistivity	50
1000				Conductivity	0
15000				Line Tension	0
50				Shallow Resistivity	500
50				Deep Resistivity	500

Database File: cobalt_reinecker_a_1-17hd.db Dataset Pathname: DIL/cobstck Presentation Format: dil Dataset Creation: Thu Feb 12 06:25:35 2015 Charted by: Depth in Feet scaled 1:240					
0	Gamma Ray	150	0.2	Deep Resistivity	2000
-160	RxoRt	40	0.2	Medium Resistivity	2000
-200	SP (mV)	0	0.2	Shallow Resistivity	2000
			10000	Line Tension	0
					LSPD



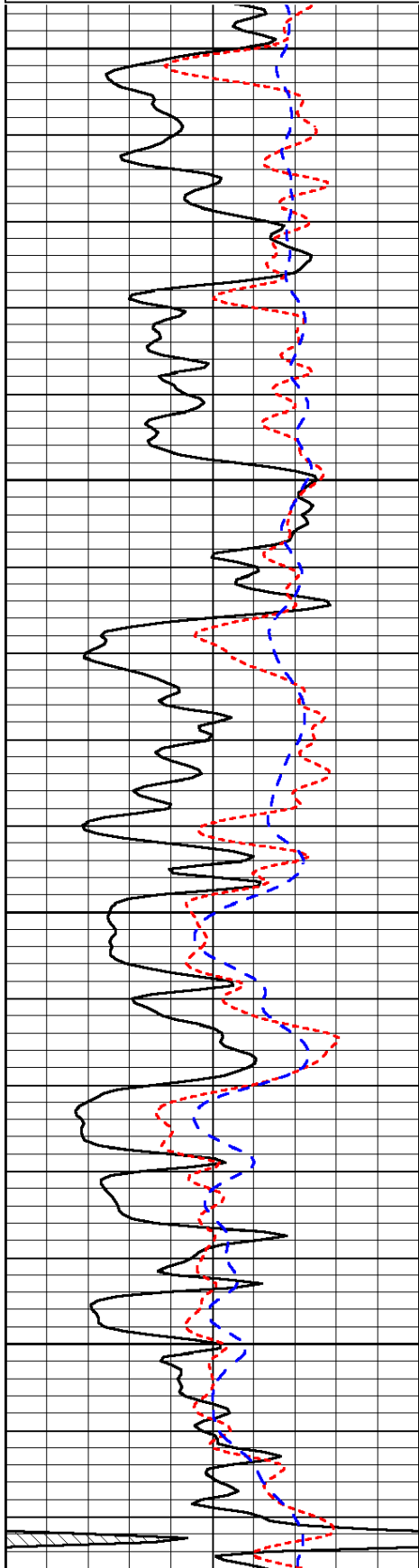
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Dataset Pathname:	DIL/cobstck

Dataset Pathname: D:\Cobster
Presentation Format: dil
Dataset Creation: Thu Feb 12 06:25:35 2015
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RxoRt	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

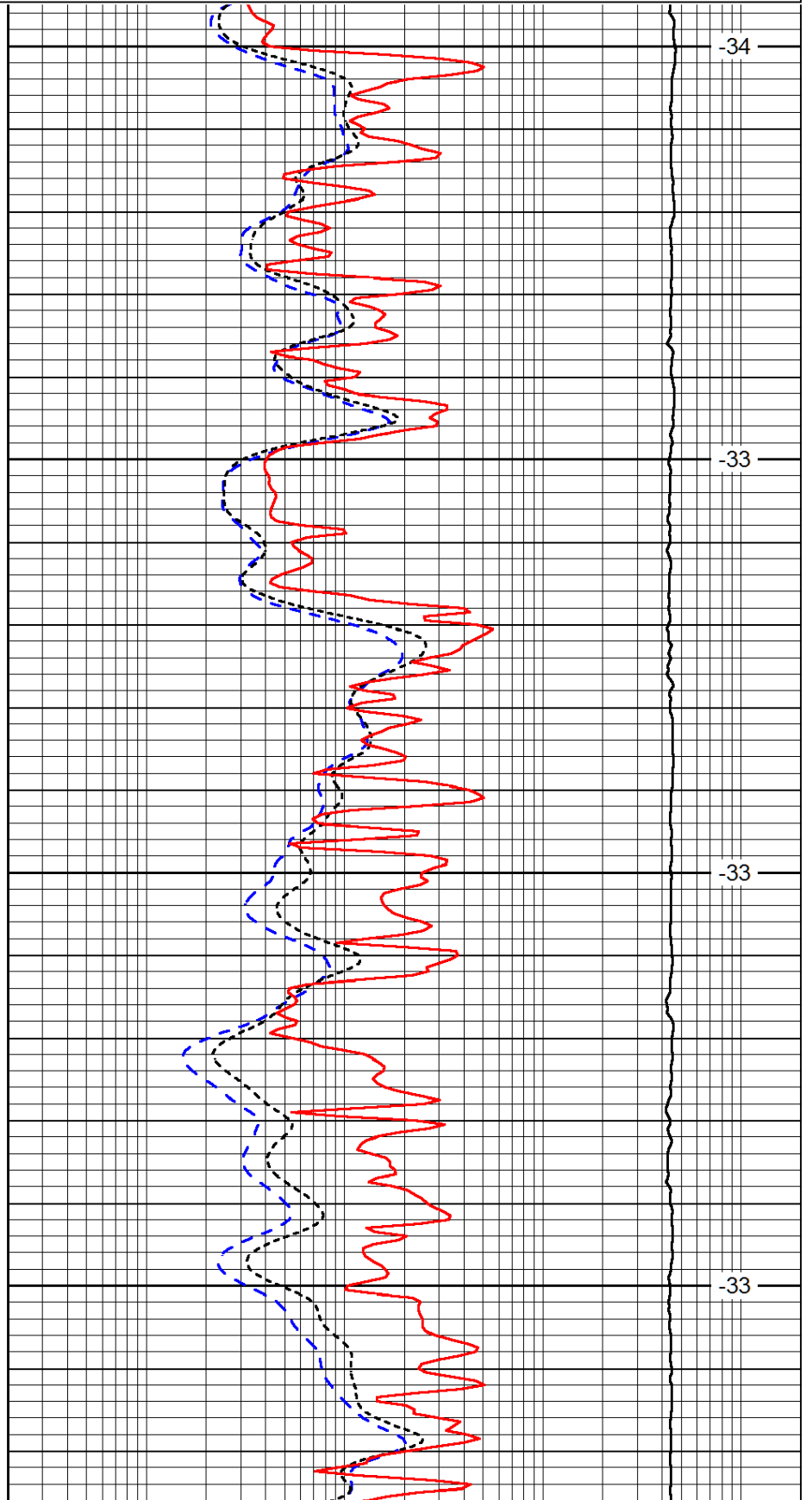


3600

3650

3700

3750

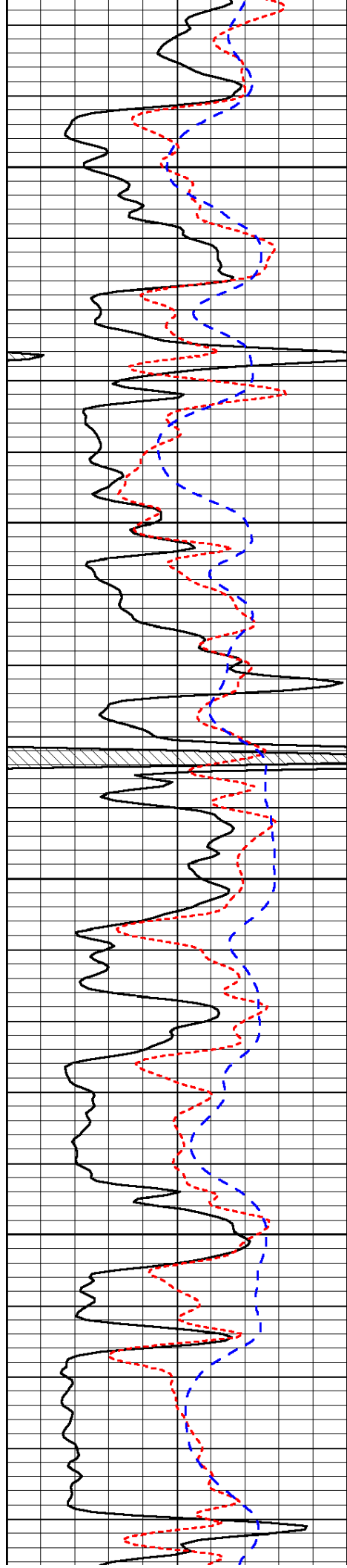


-34

-33

-33

-33

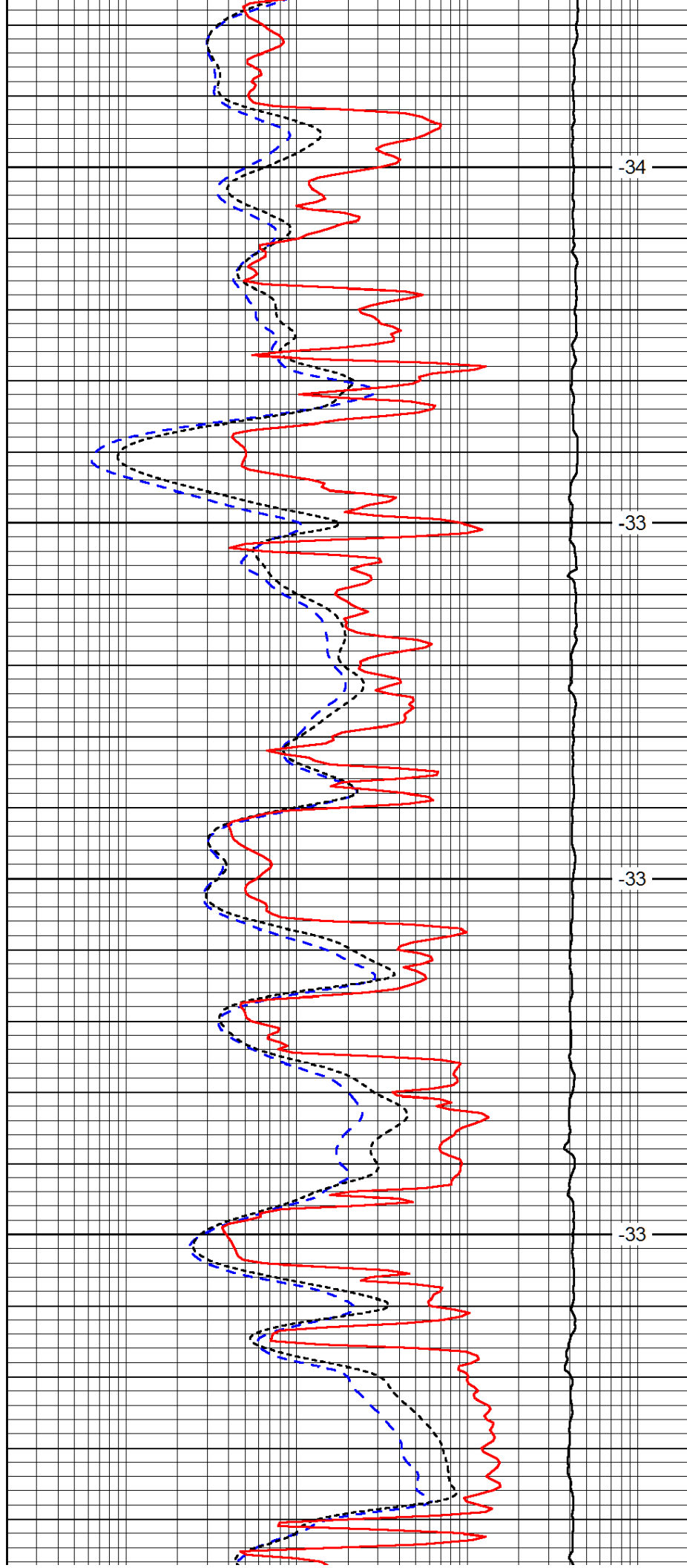


3800

3850

3900

3950

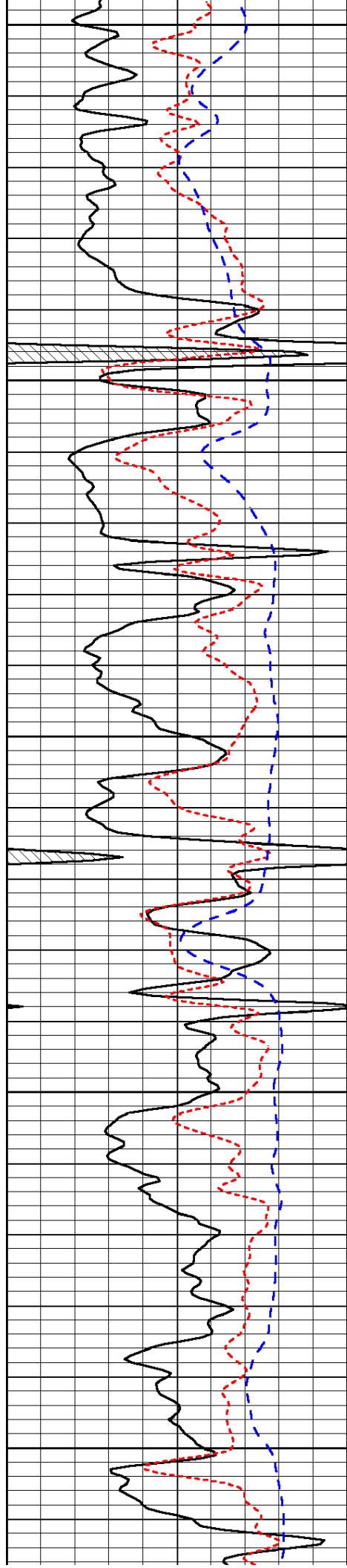


-34-

-33-

-33-

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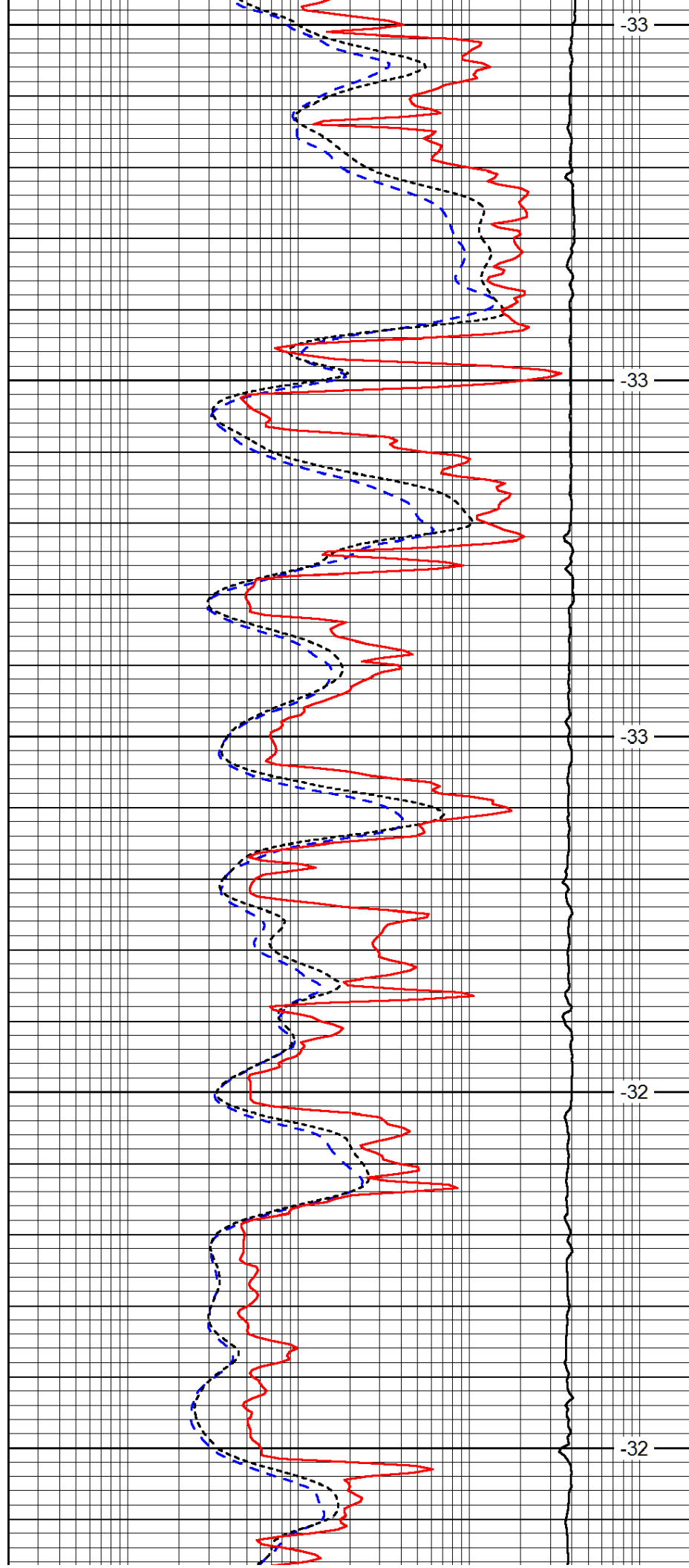
4000

4050

4100

4150

4200



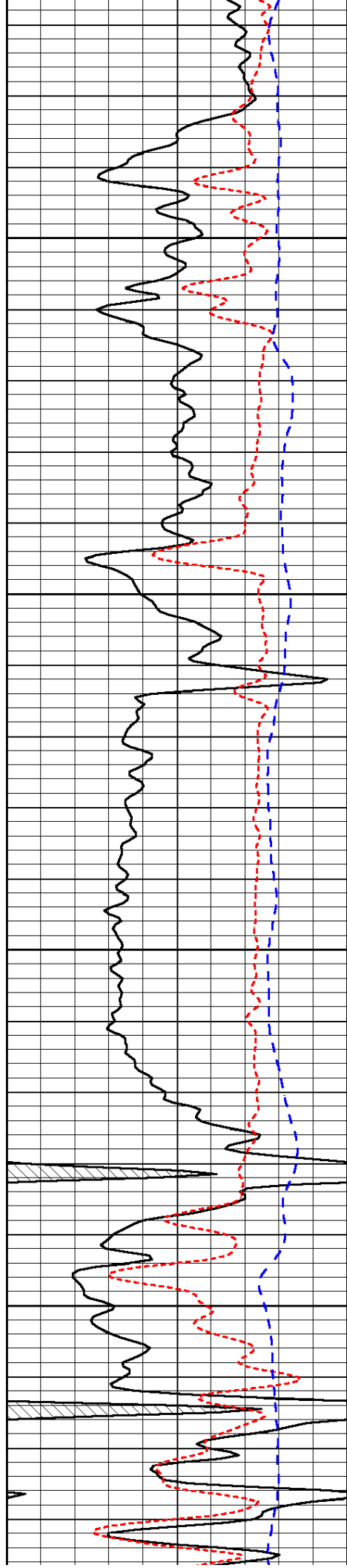
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-32

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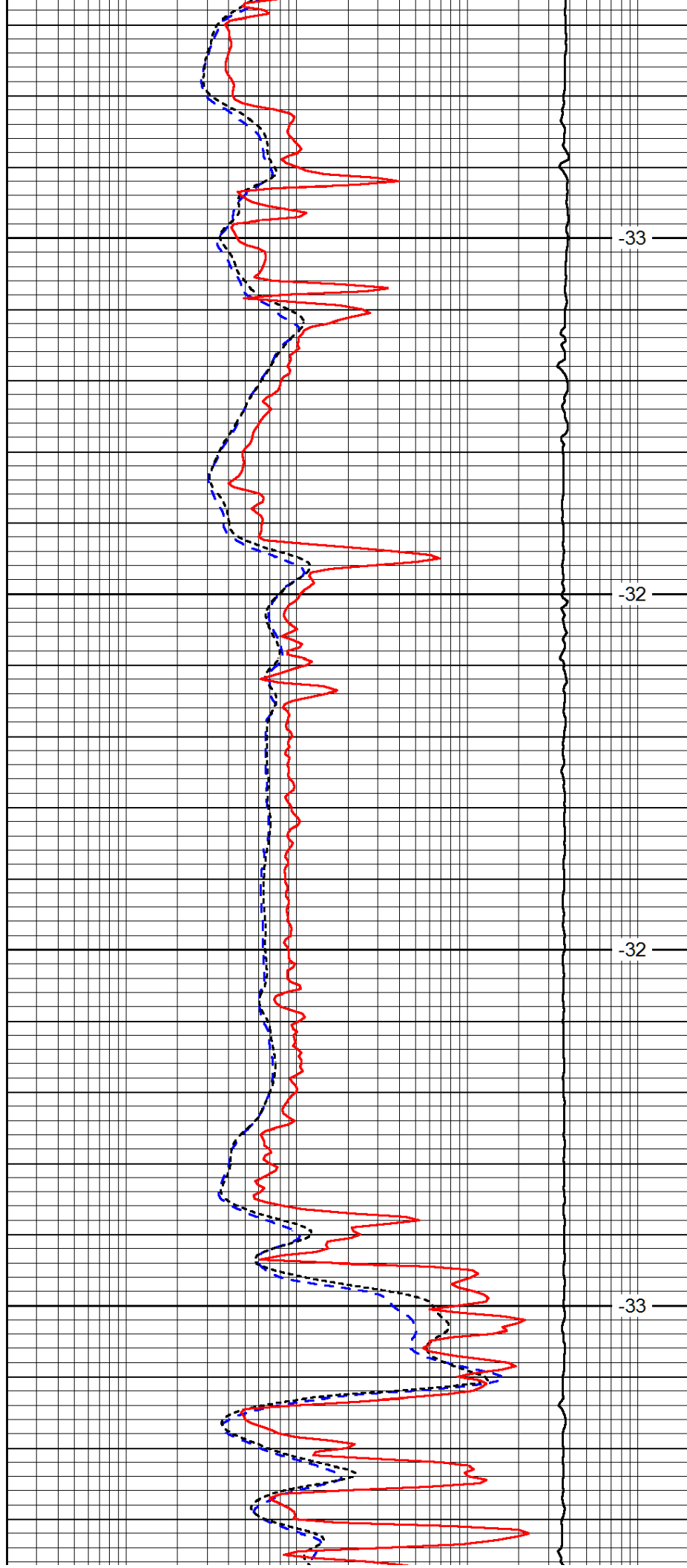


4250

4300

4350

4400

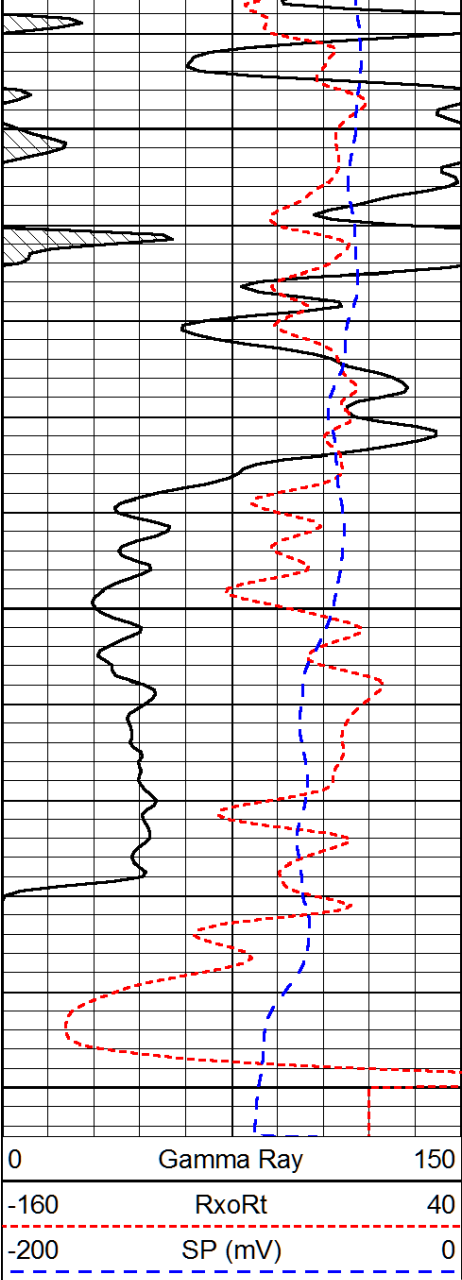


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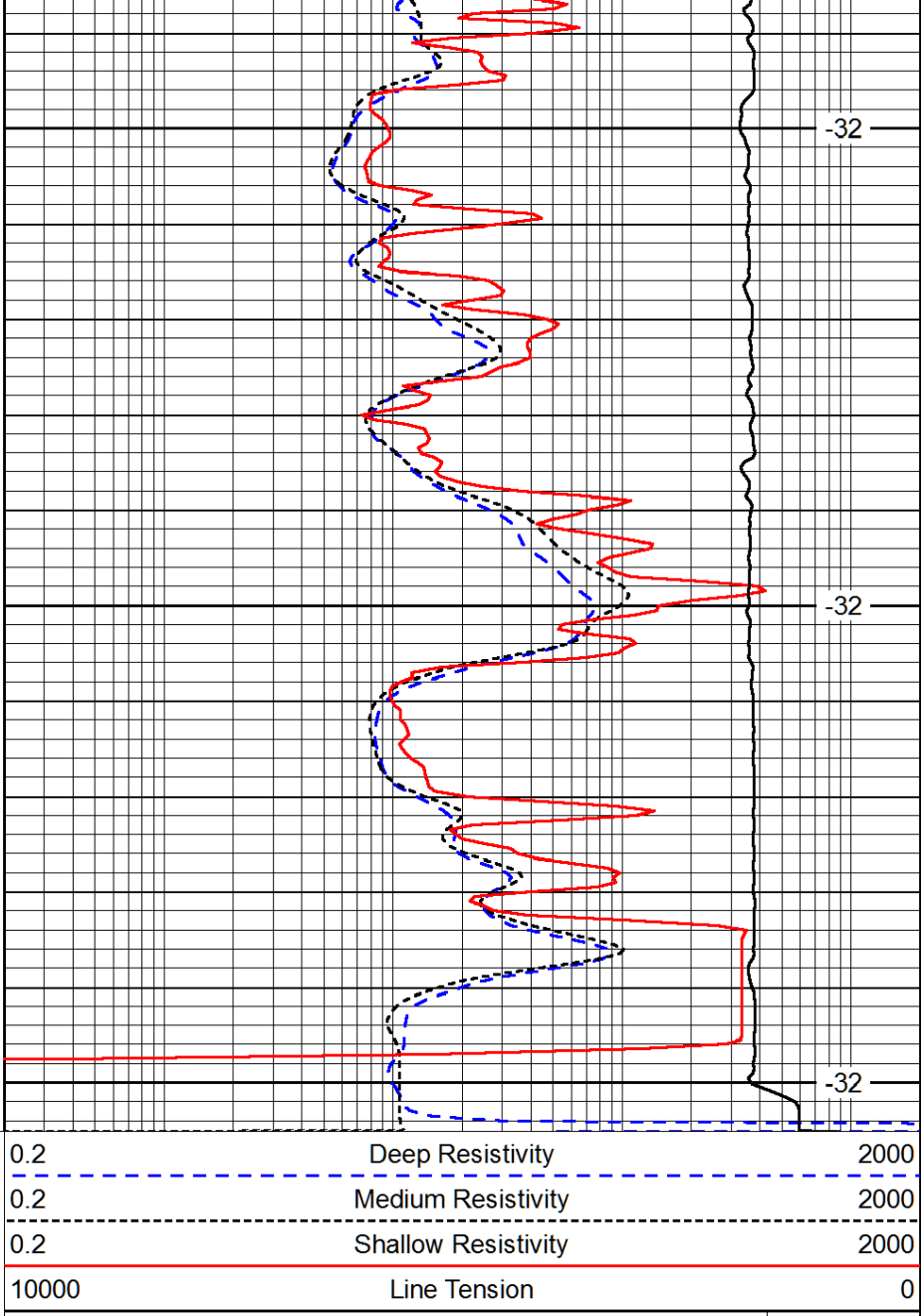
-33



4450

4500

4550



-32

-32

-32

LSPD