



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.

15-065-23,827-00-00

Company H & C Oil Operating, Inc.

Well Dreiling-Waggoner No.23-1

Field Wildcat

County Graham State

Kansas

Location 2640' FNL & 990' FWL

Other Services
CNL/CDL

Sec: 23 Twp: 9S Rge: 25W

Permanent Datum Ground Level Elevation 2564
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2569
D.F.
G.L. 2564

Date 6/14/2012

Run Number One

Depth Driller 4172

Depth Logger 4173

Bottom Logged Interval 4172

Top Log Interval 200

Casing Driller 8.625 @ 222

Casing Logger 228

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1,000

Density / Viscosity 9.3 52

pH / Fluid Loss 10.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp 2.15 @ 86

Rmf @ Meas. Temp 1.61 @ 86

Rmc @ Meas. Temp 2.9 @ 86

Source of Rmf / Rmc Charts

Rm @ BHT 1.57 @ 118

Operating Rig Time 2 Hours

Max Rec. Temp. F 118

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Marc Downing

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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

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(785) 625-3858

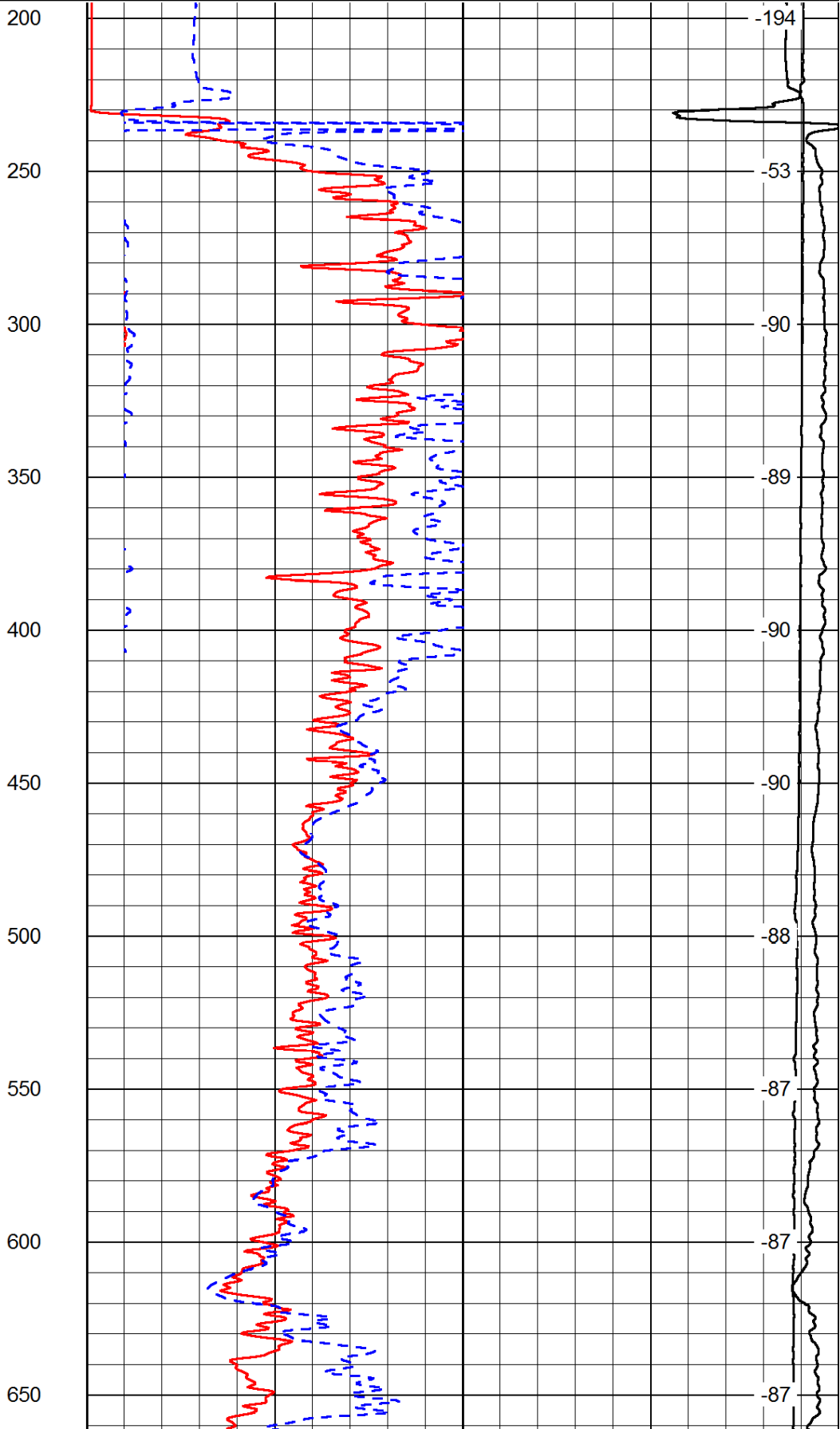
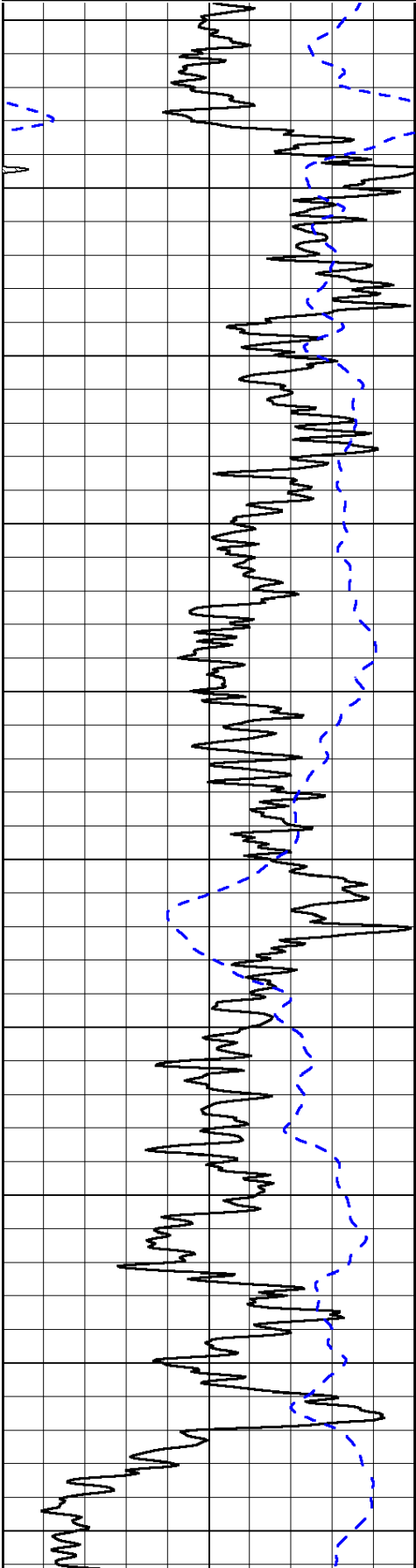
Wakeeney KS,
N to Red Line Rd, W to 140 Rd,
3/4 N, E Into

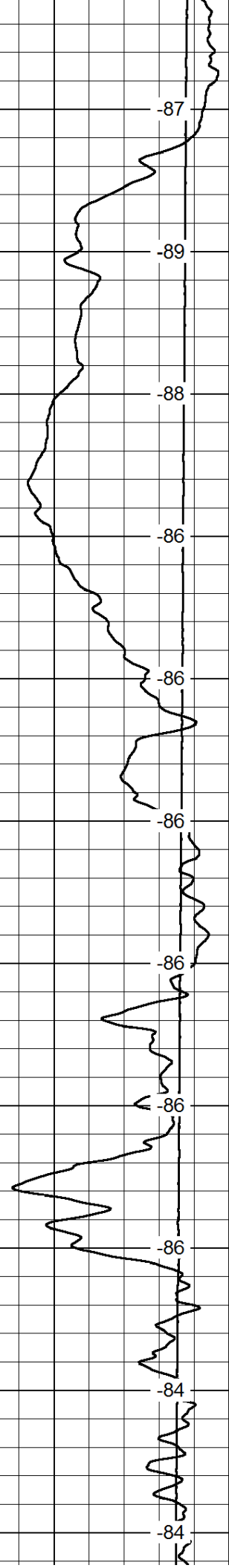
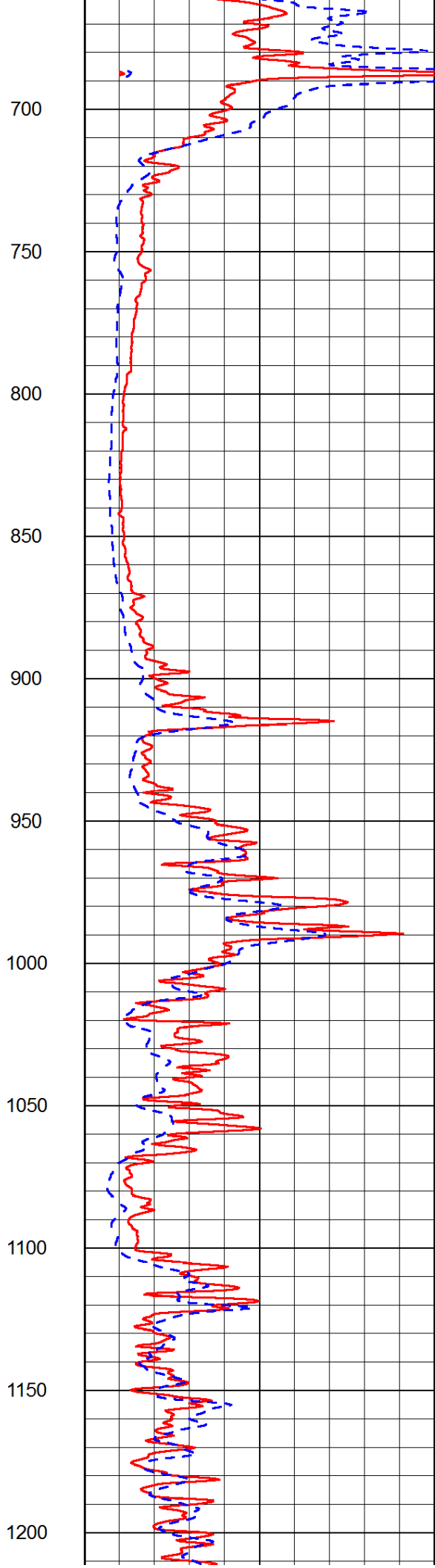
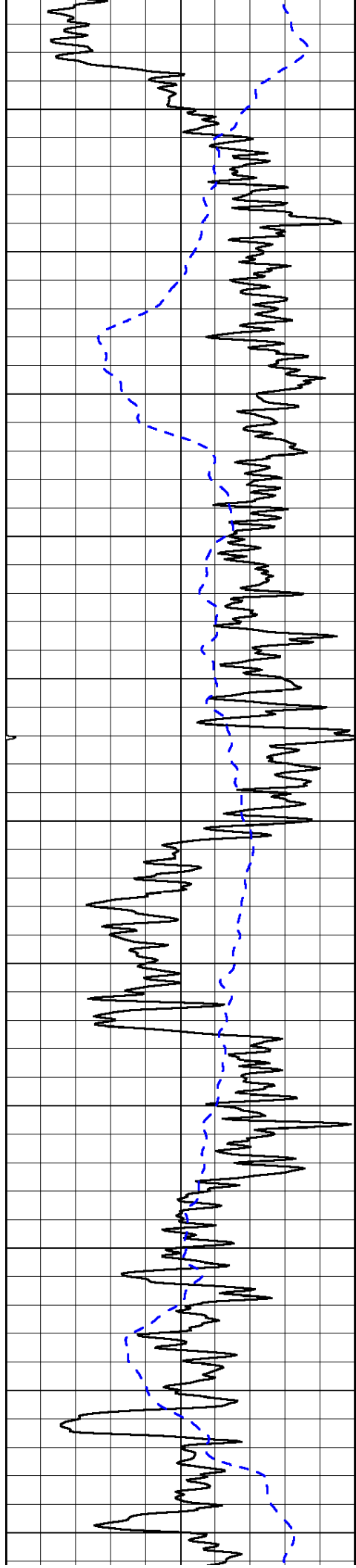
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Charted by: Depth in Feet scaled 1:600

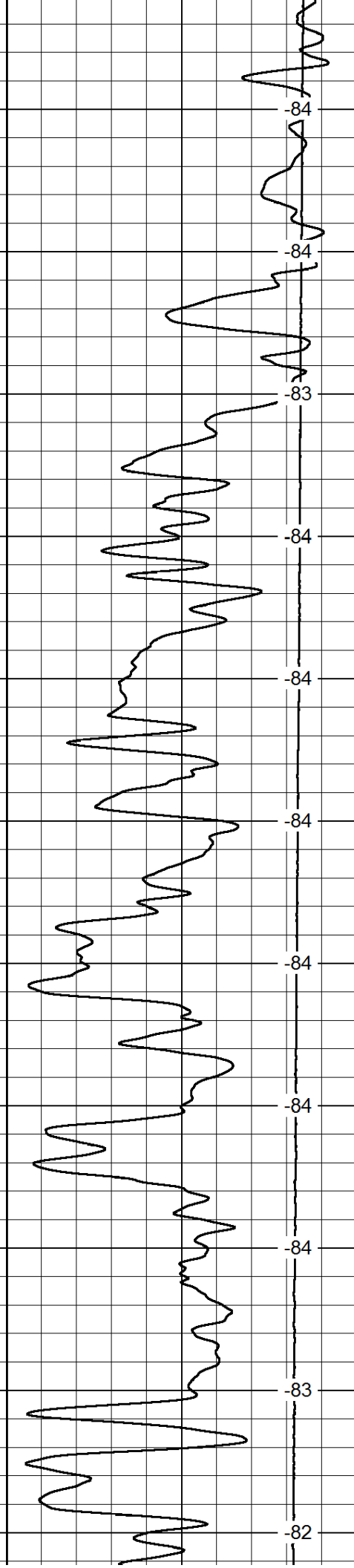
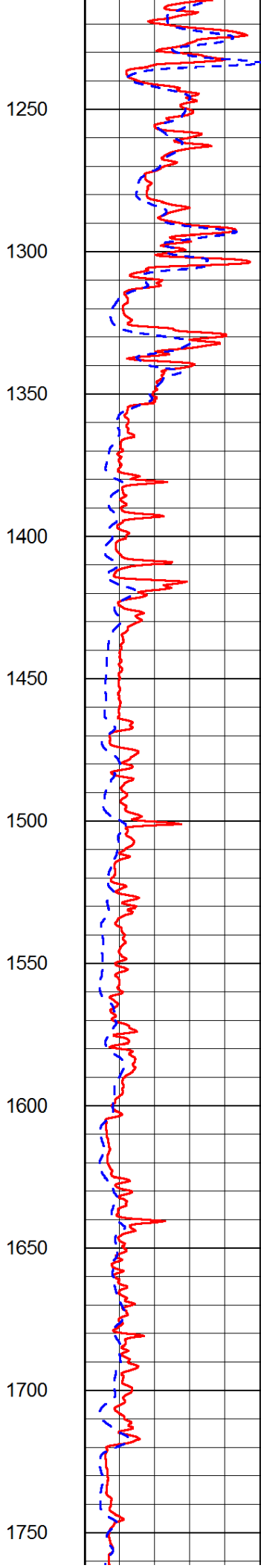
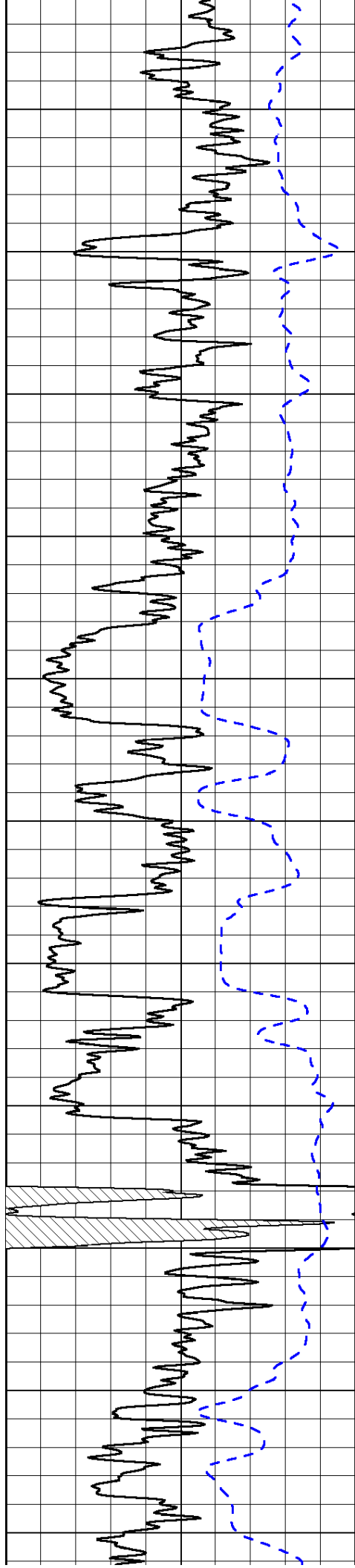
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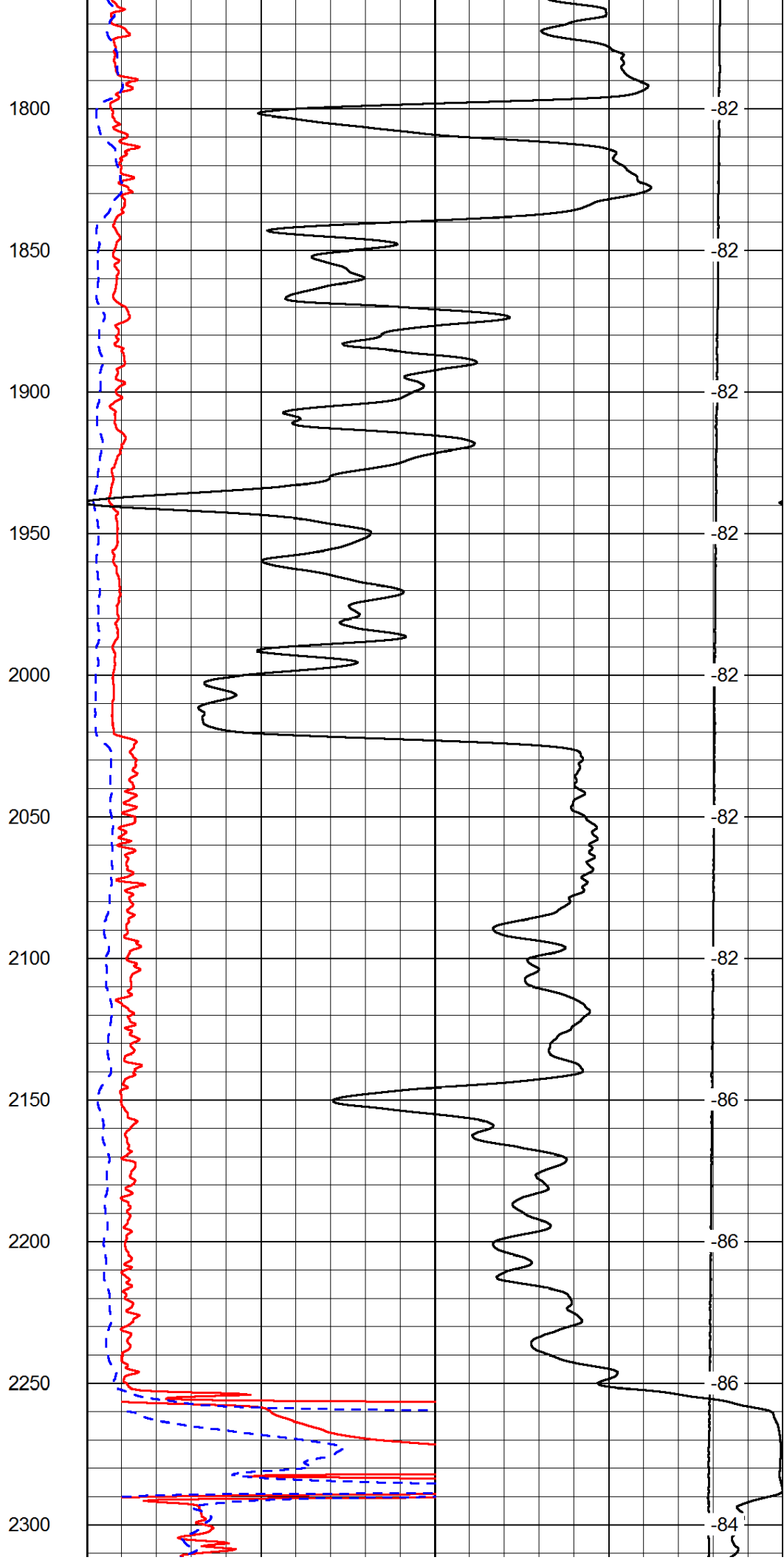
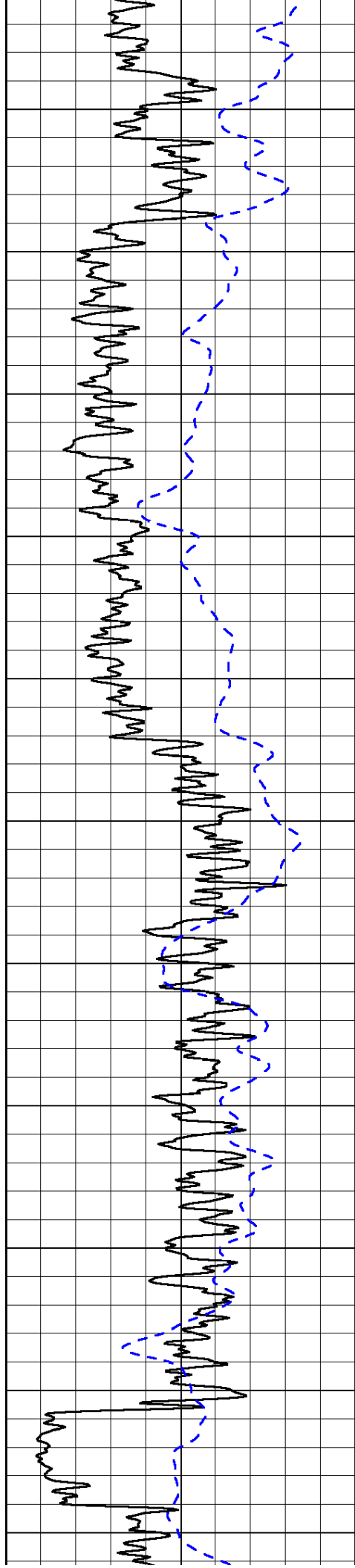
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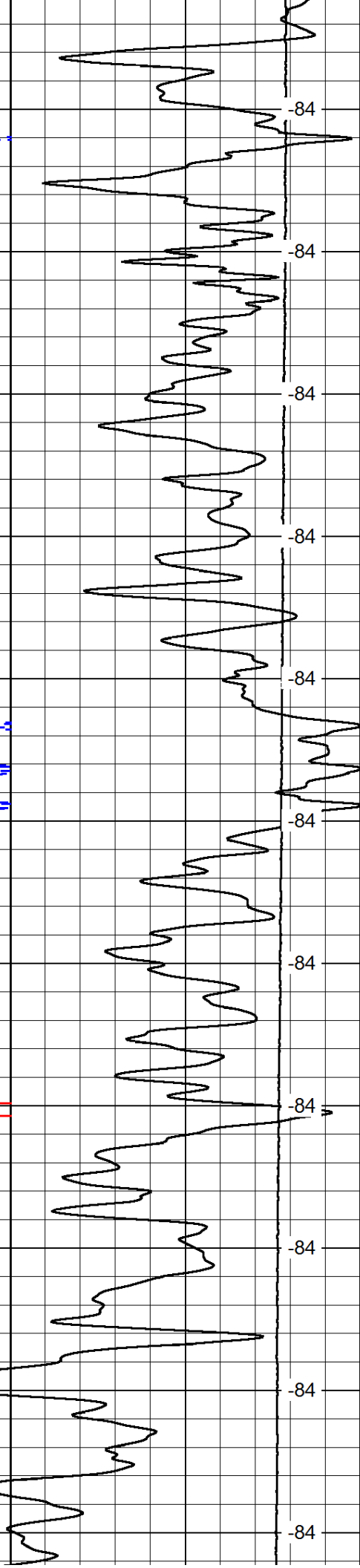
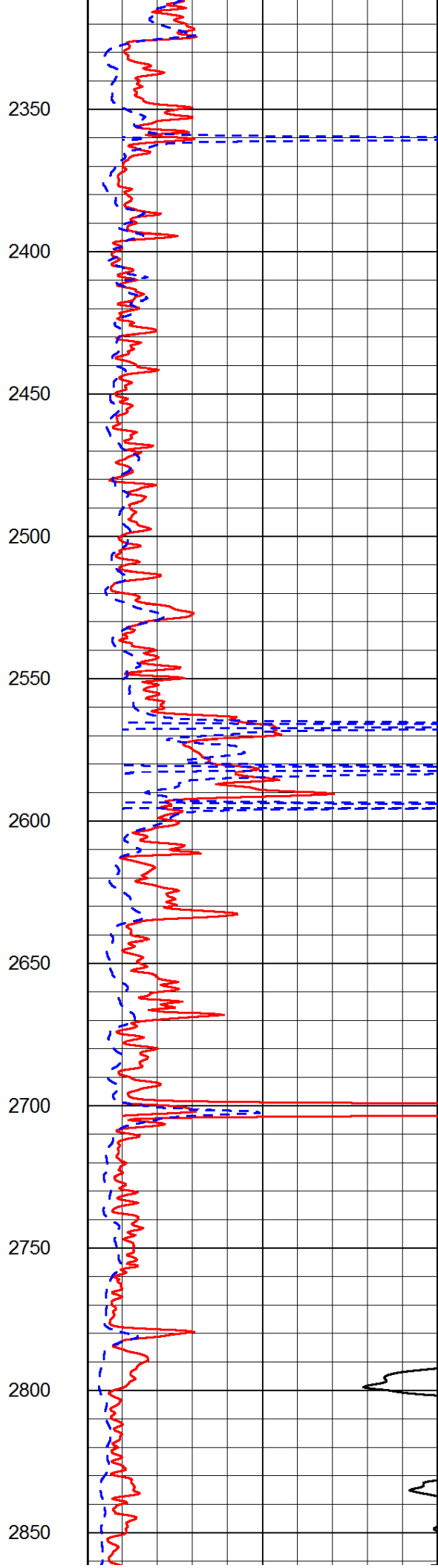
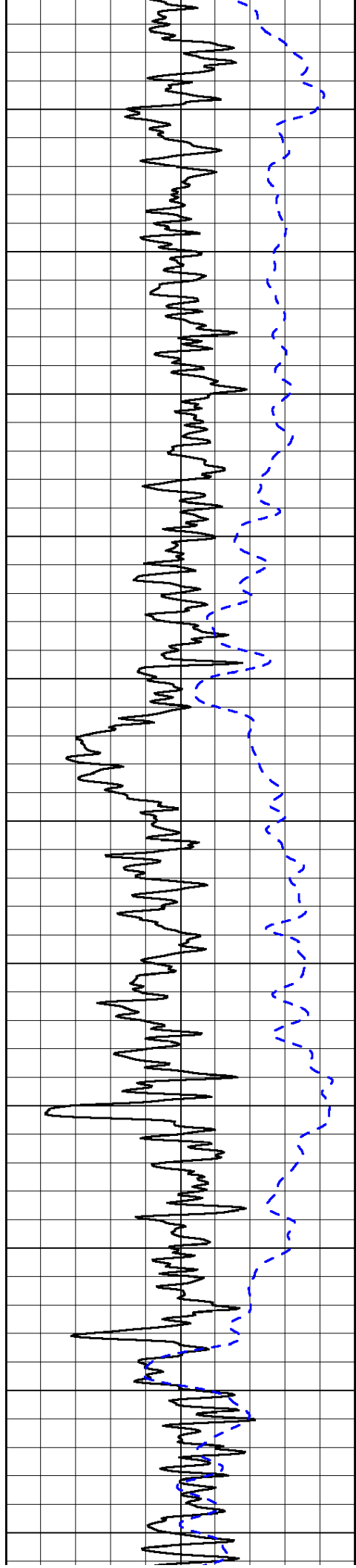
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0	Deep Resistivity	50	
1000	Conductivity		0
15000	Line Tension		0
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

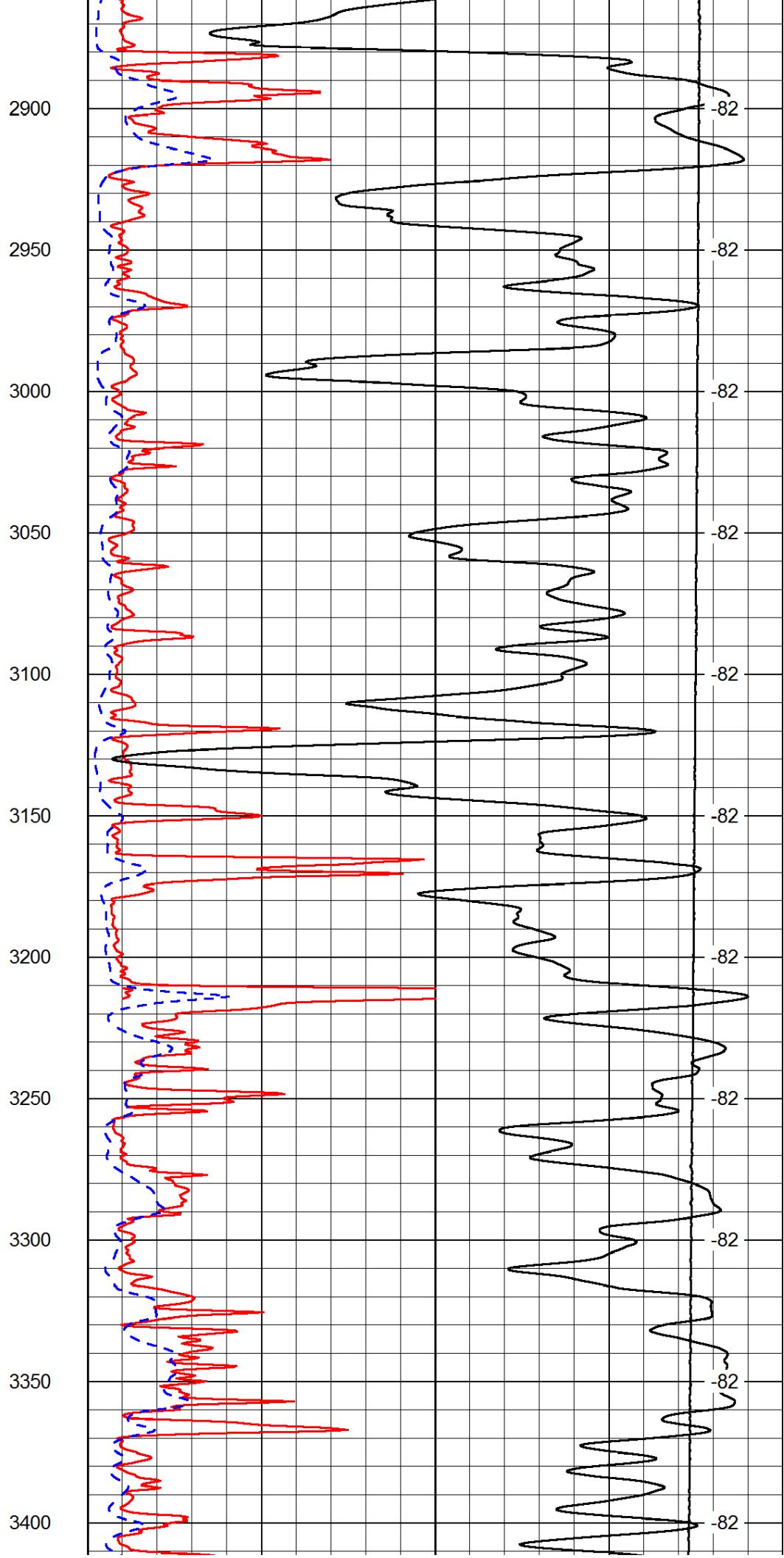
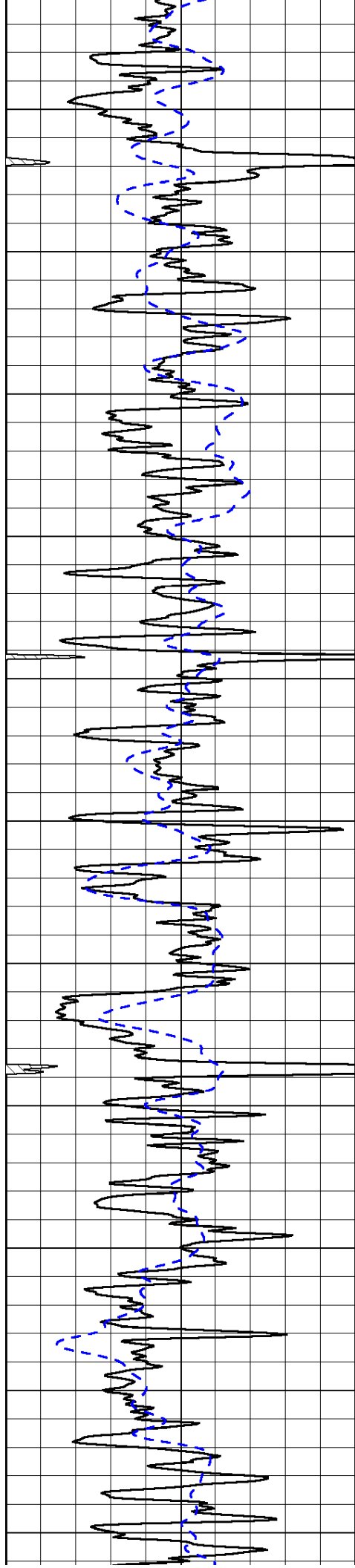


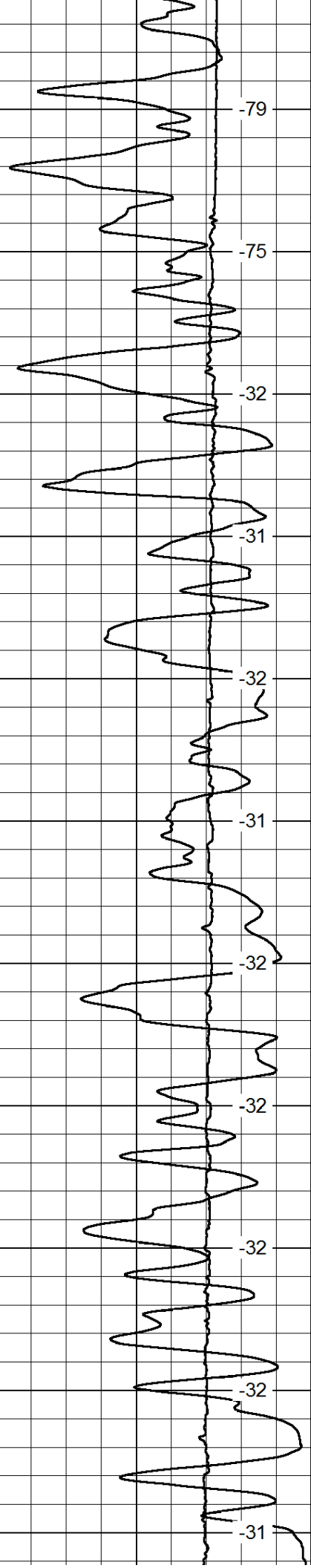
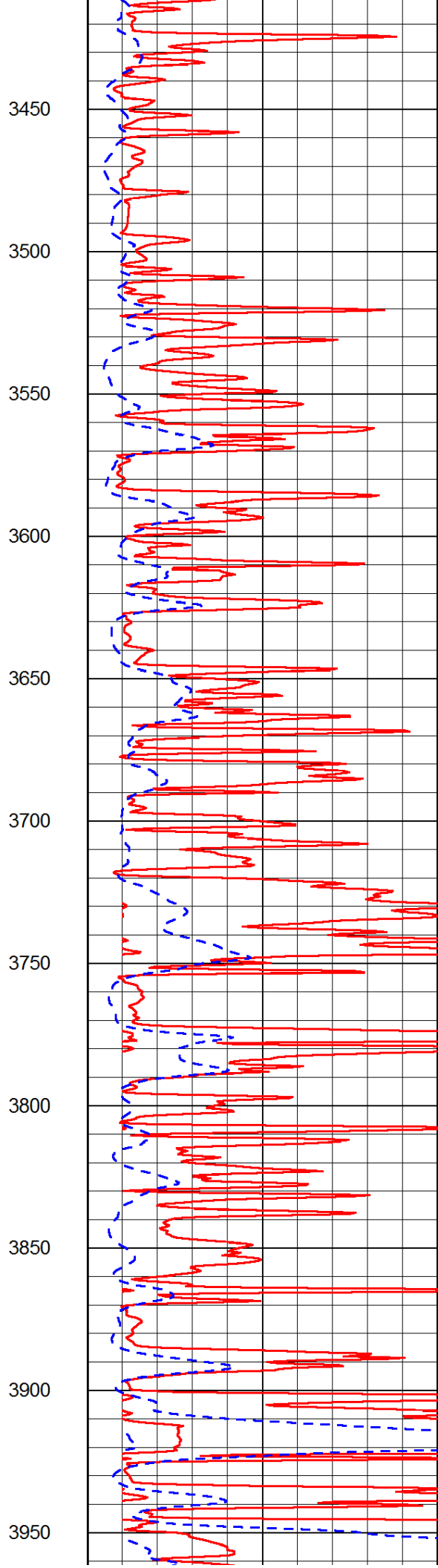
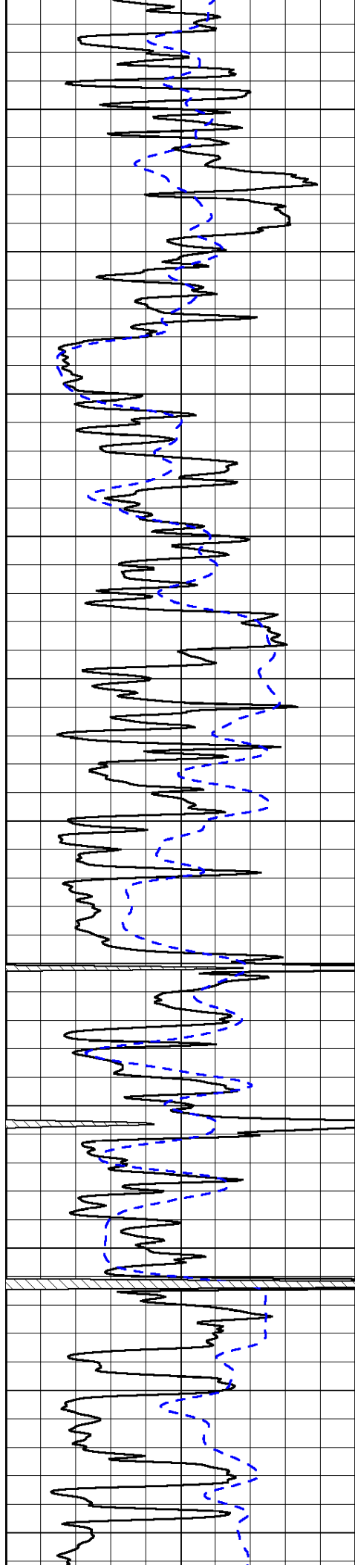


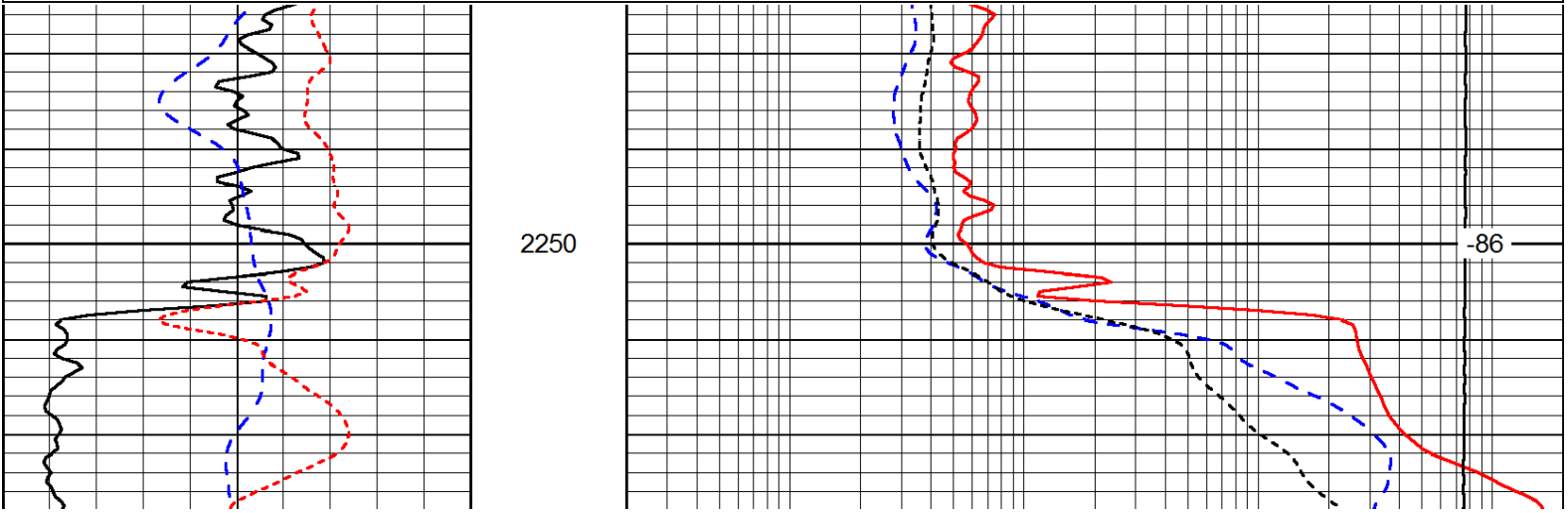
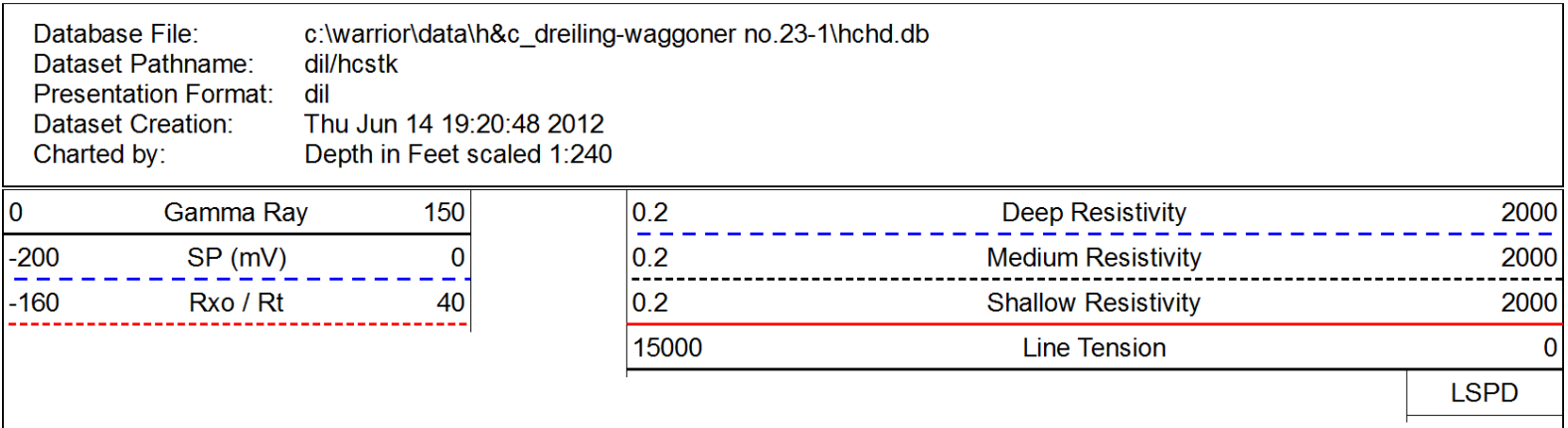
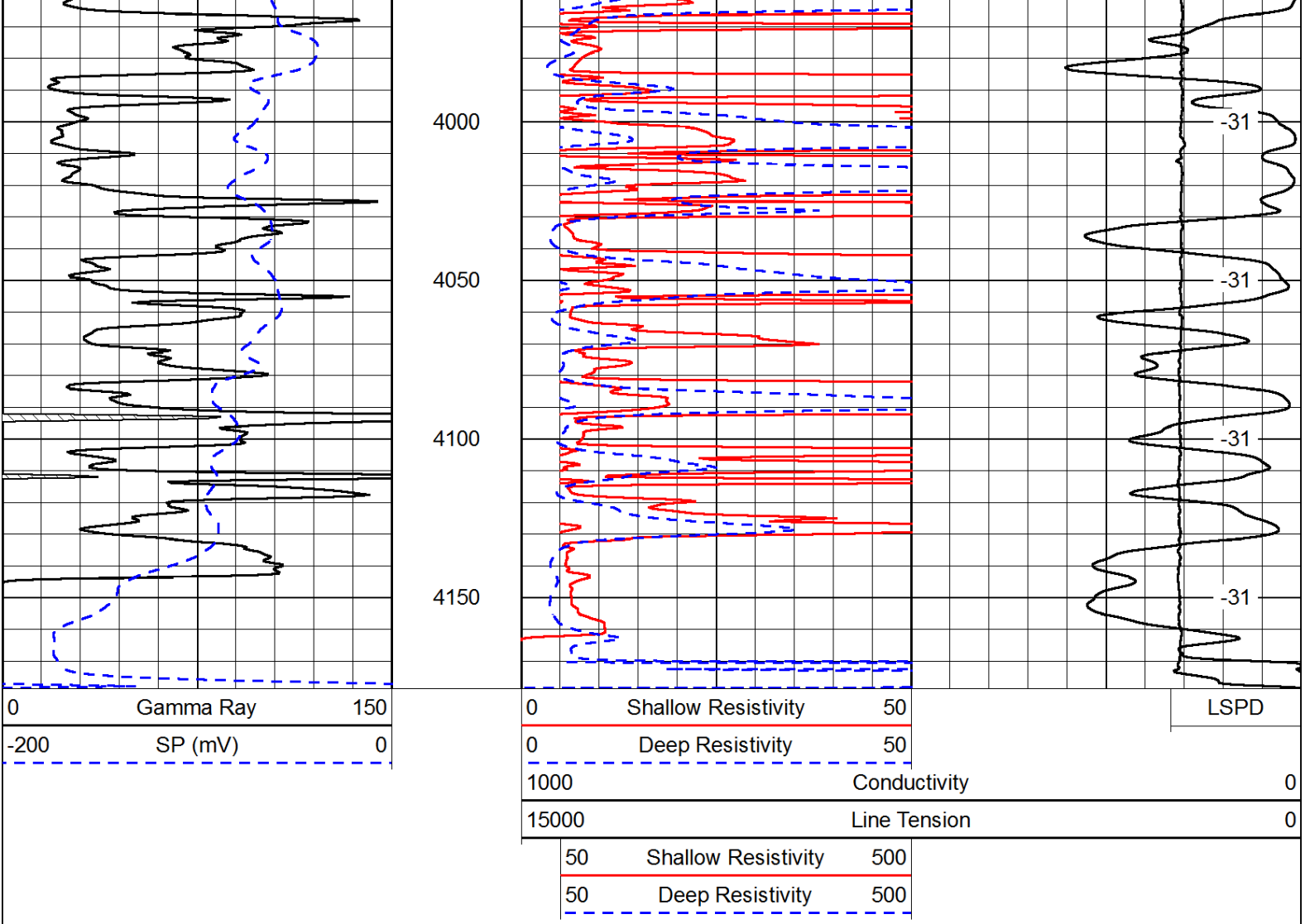


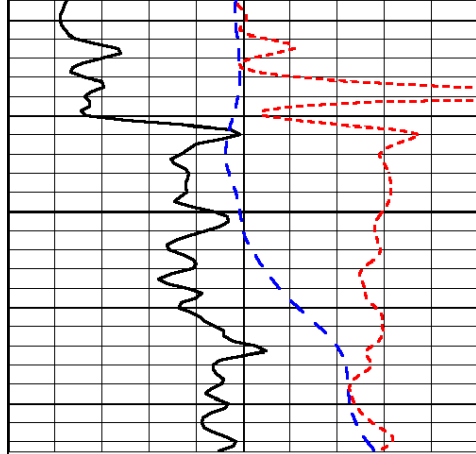






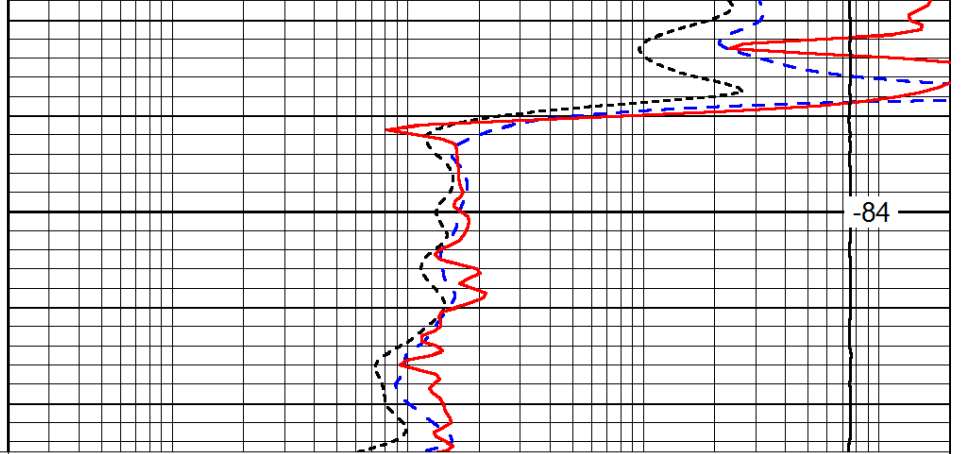






2300

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40



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

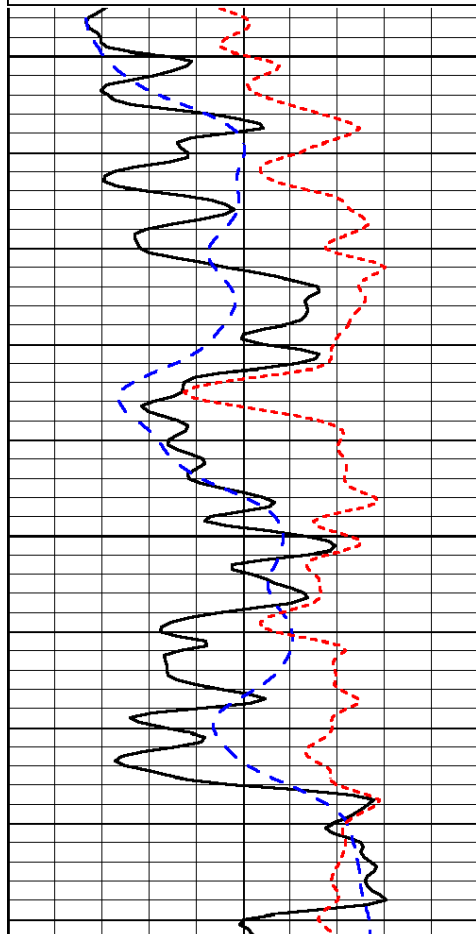
LSPD

Database File: c:\warrior\data\h&c_dreiling-waggoner no.23-1\hchd.db
 Dataset Pathname: dil/hcstk
 Presentation Format: dil
 Dataset Creation: Thu Jun 14 19:20:48 2012
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

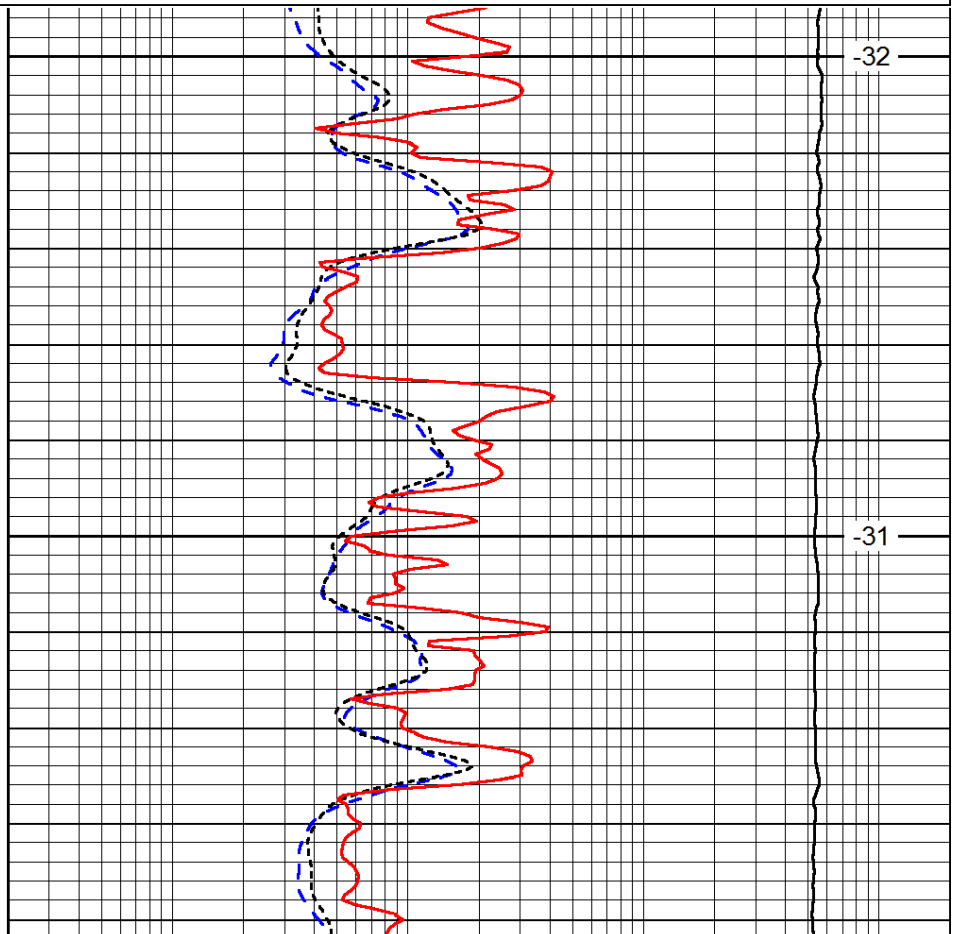
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

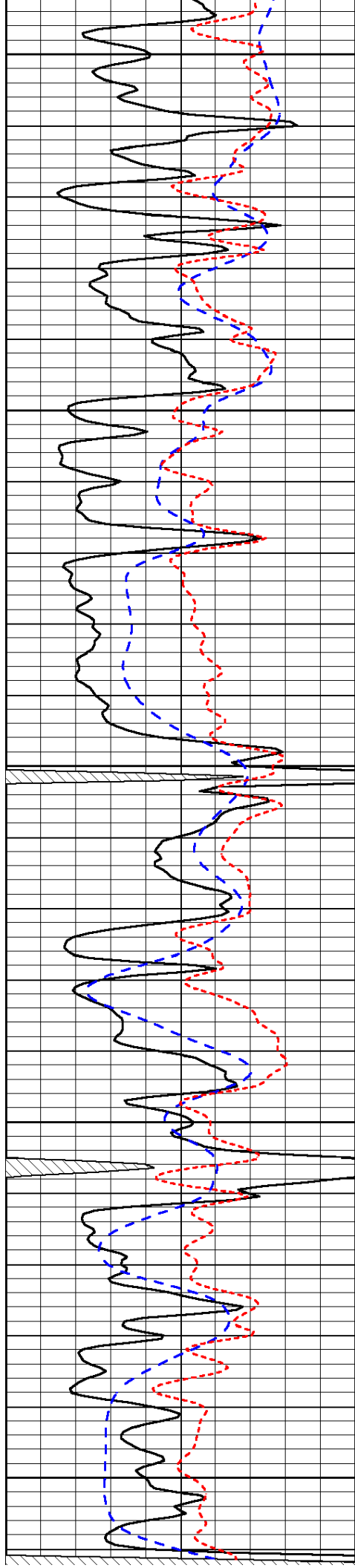
LSPD



3550

3600





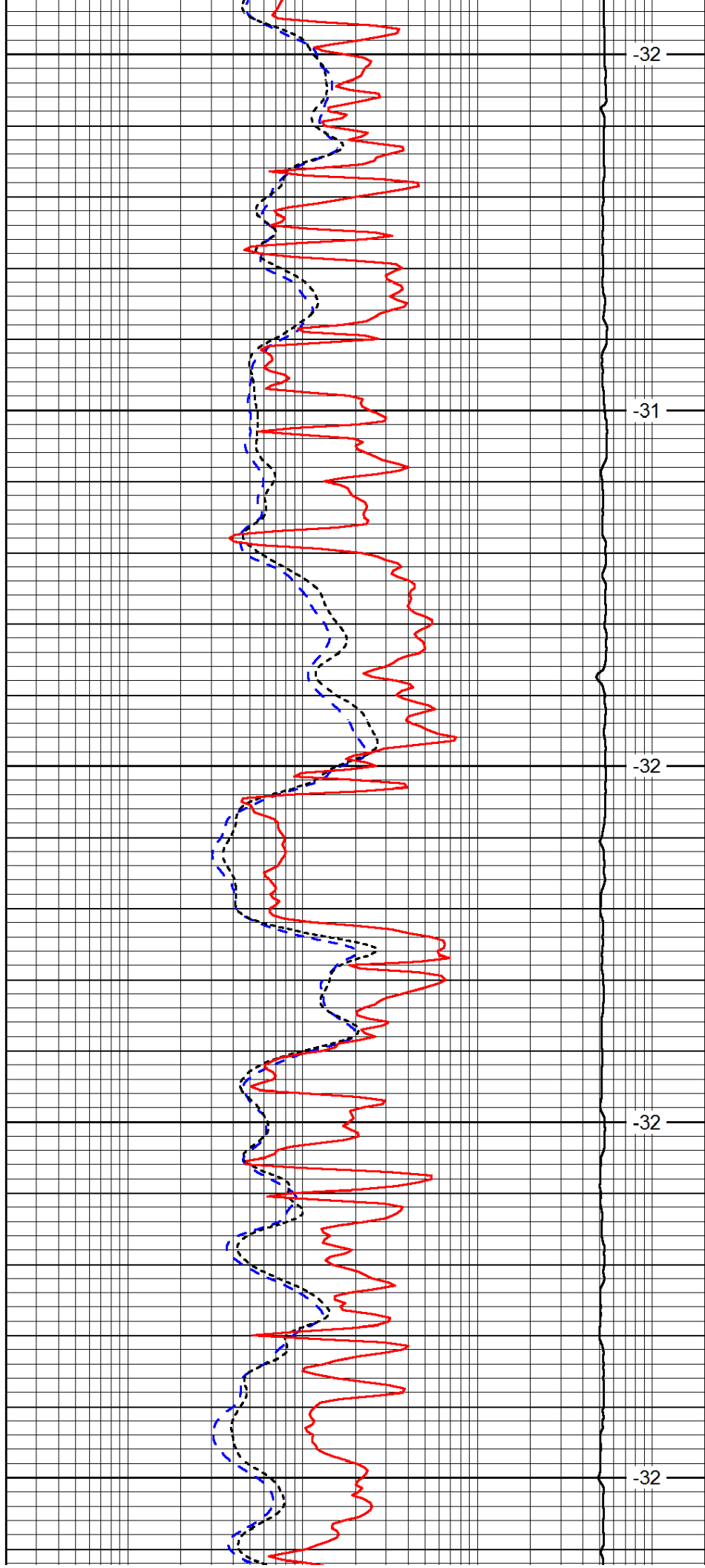
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3700

3750

3800

3850



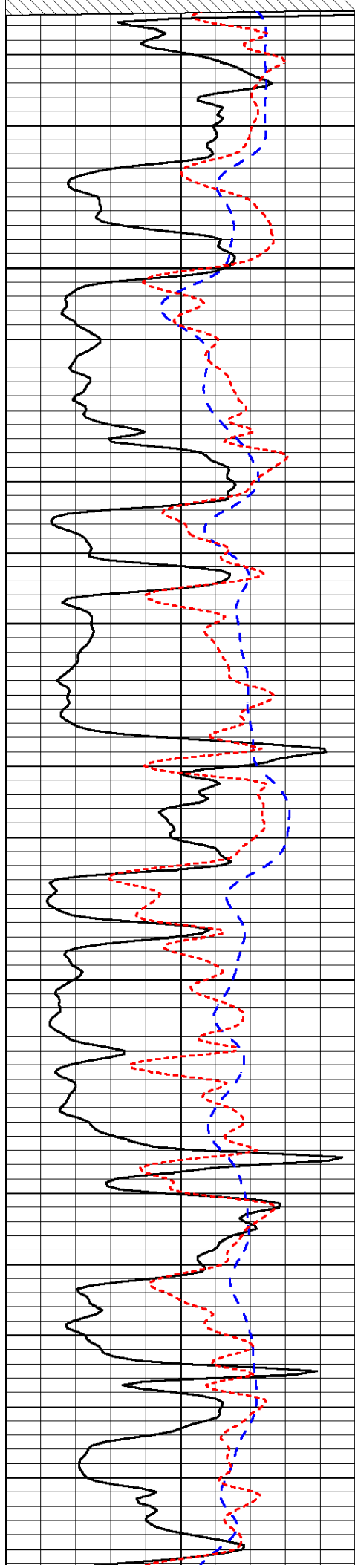
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-32

-32

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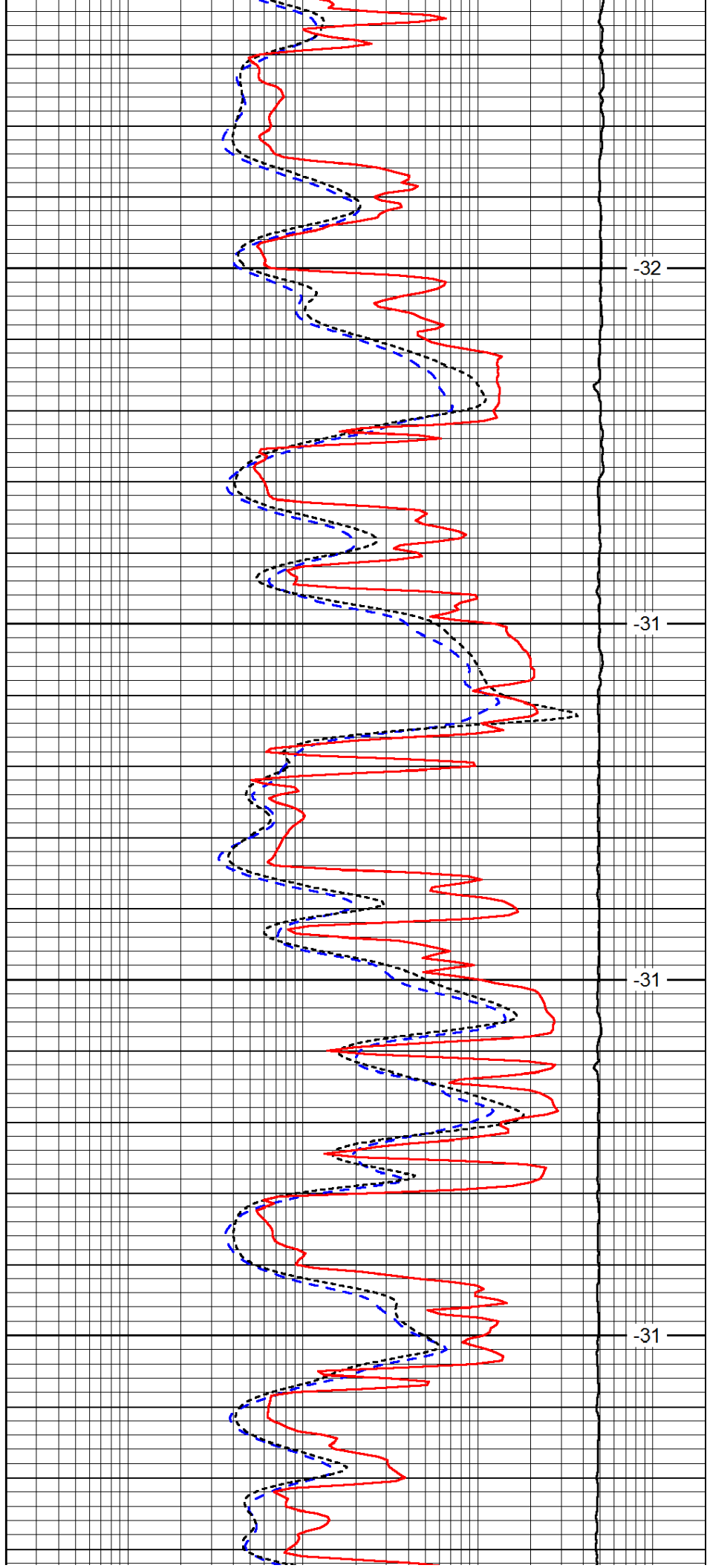


3900

3950

4000

4050

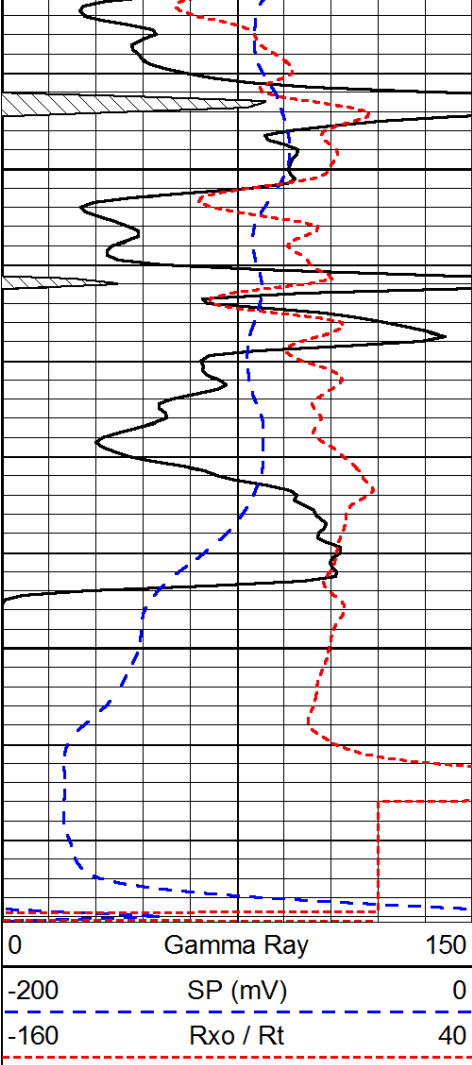


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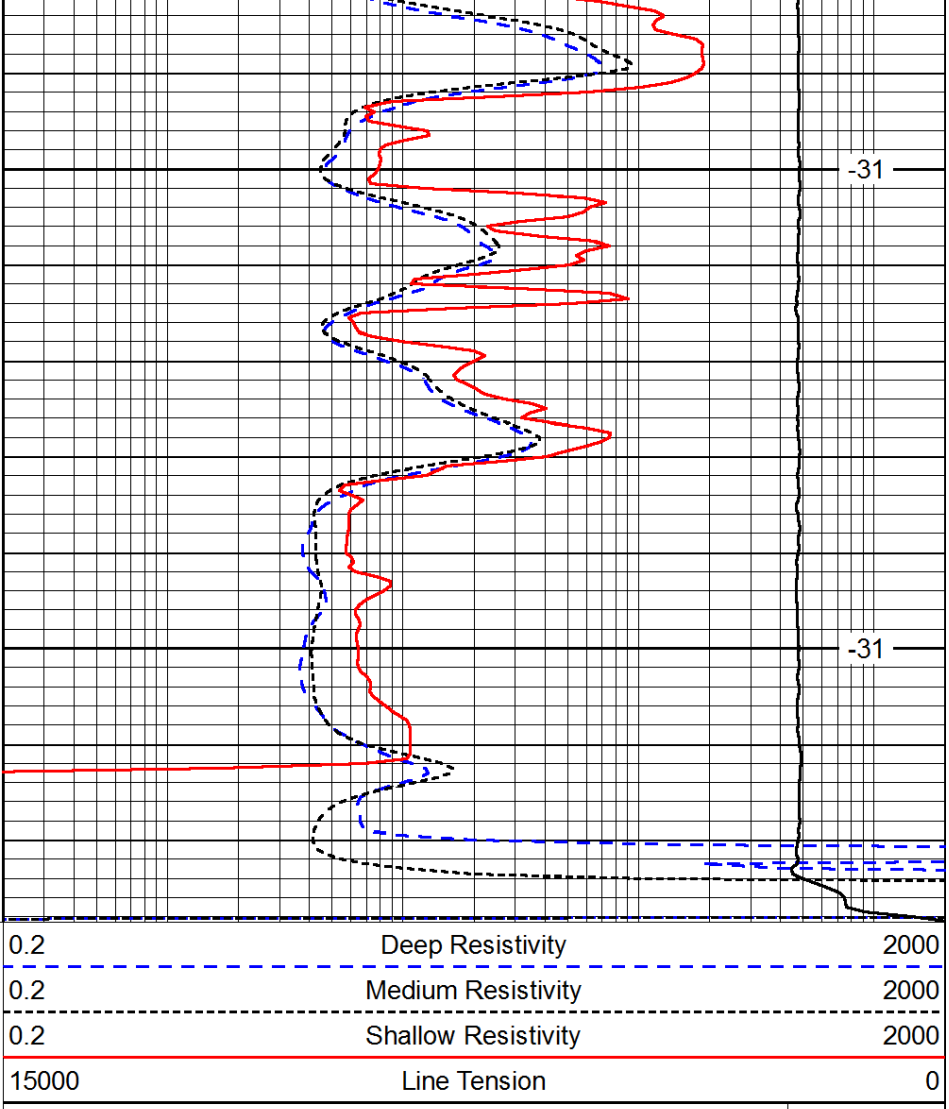
-31

-31



4100

4150



-31

-31

LSPD