



Dual Induction Log

Pioneer Energy Services

API No.

15-055-22,274-00-00

Company American Warrior, Inc.

Well Congdon #12-28

Field Congdon

County Finney State

Kansas

Location 1380' FSL & 2566' FEL

Sec: 28 Twp: 23S Rge: 32W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 2840

Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation

K.B. 2852

D.F. 2840

Date 2/4/2014

Run Number One

Depth Driller 4900

Depth Logger 4904

Bottom Logged Interval 4903

Top Log Interval 1700

Casing Driller 8.625 @ 1703

Casing Logger 1705

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2.700

Density / Viscosity 9.4 55

pH / Fluid Loss 10.5 6.4

Source of Sample Flowline

Rm @ Meas. Temp .88 @ 45

Rmf @ Meas. Temp .66 @ 45

Rmc @ Meas. Temp 1.19 @ 45

Source of Rmf / Rmc Charts

Rm @ BHT .32 @ 125

Operating Rig Time 5 Hours

Max Rec. Temp. F 125

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Kevin Timson

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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

Garden City KS, E edge, N on Mary Rd to Jenny Barker Rd,
N to Rodkey Rd, 1/2 W, N Into

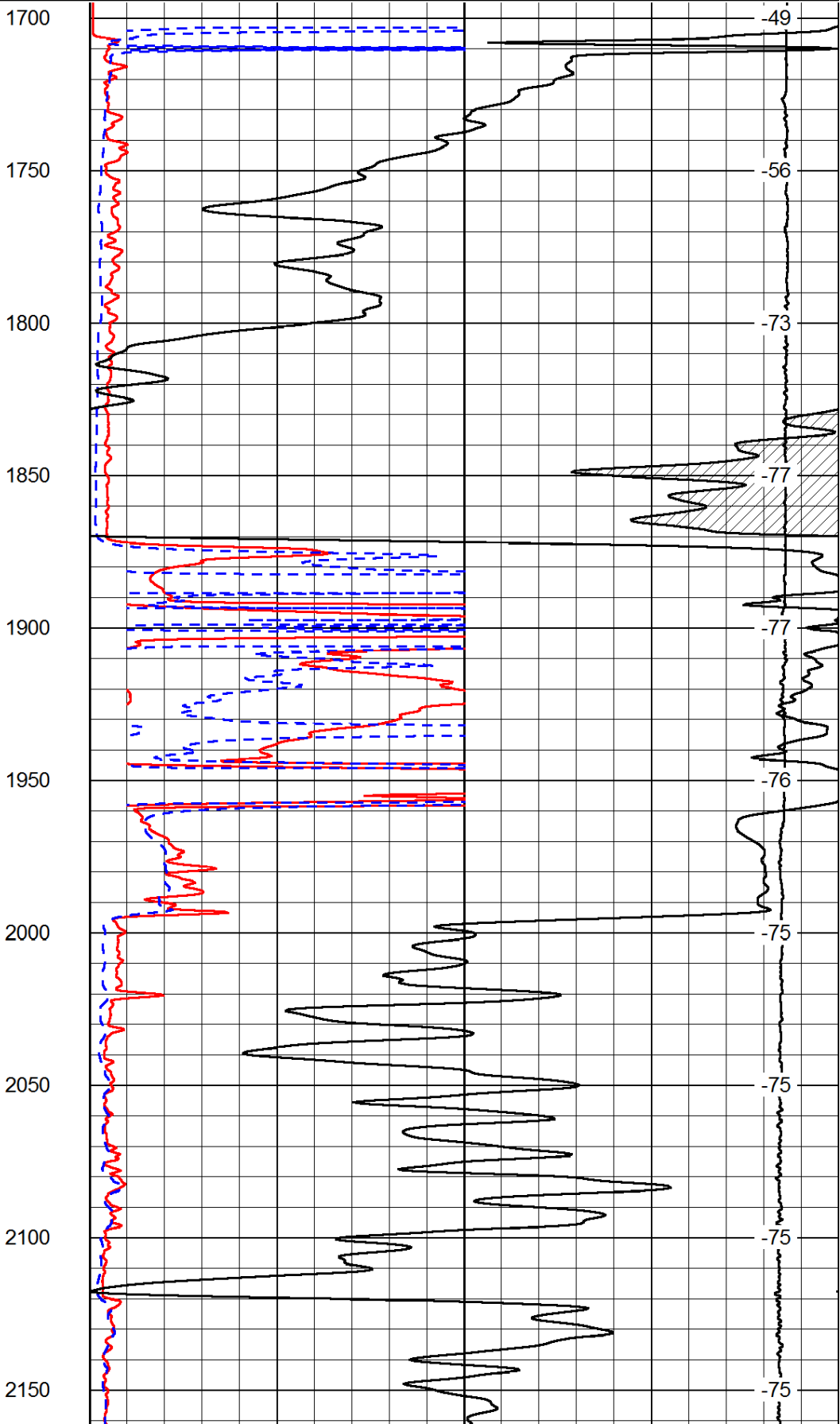
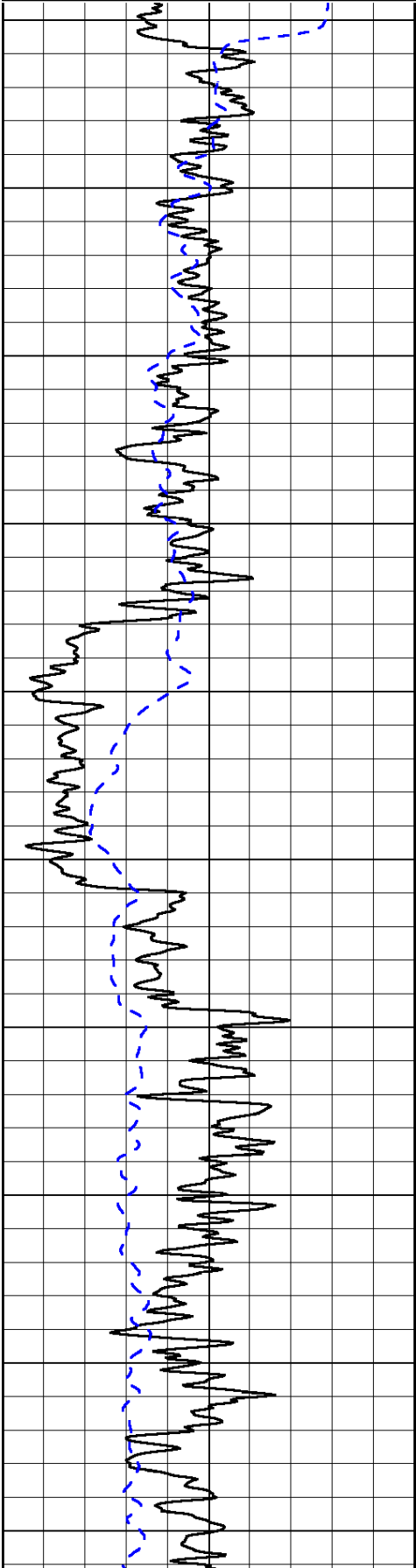
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Dataset Creation: Tue Feb 04 17:30:12 2014
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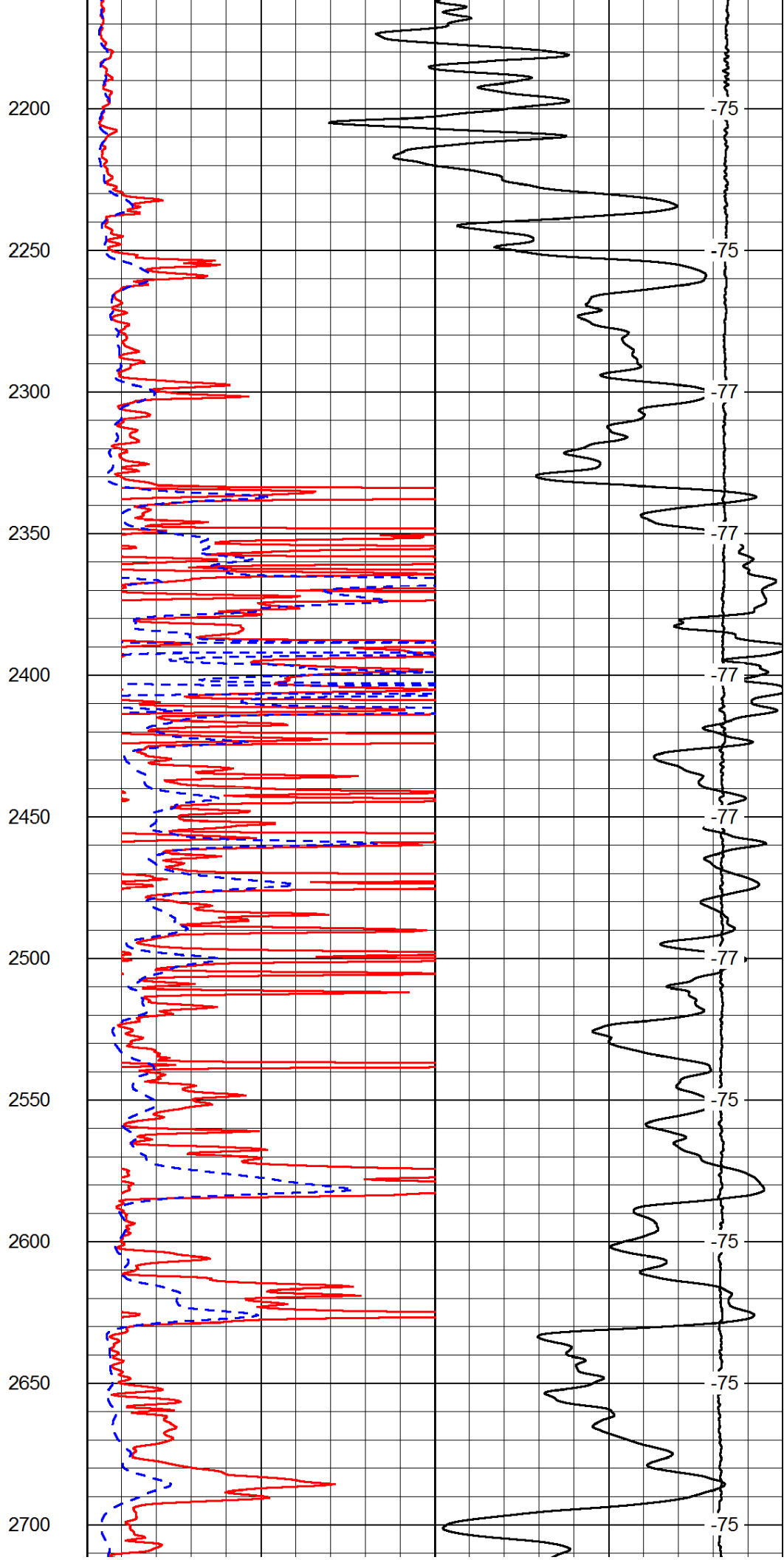
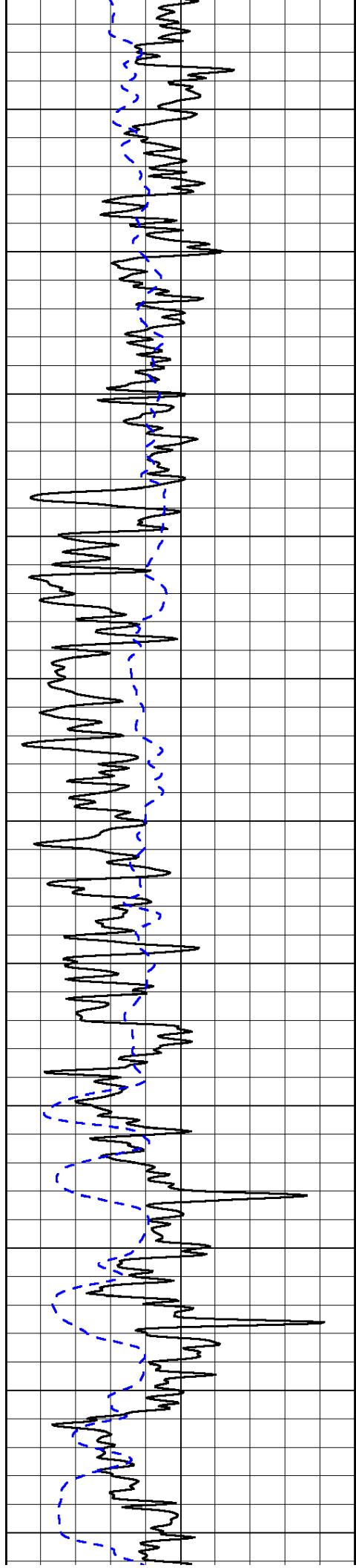
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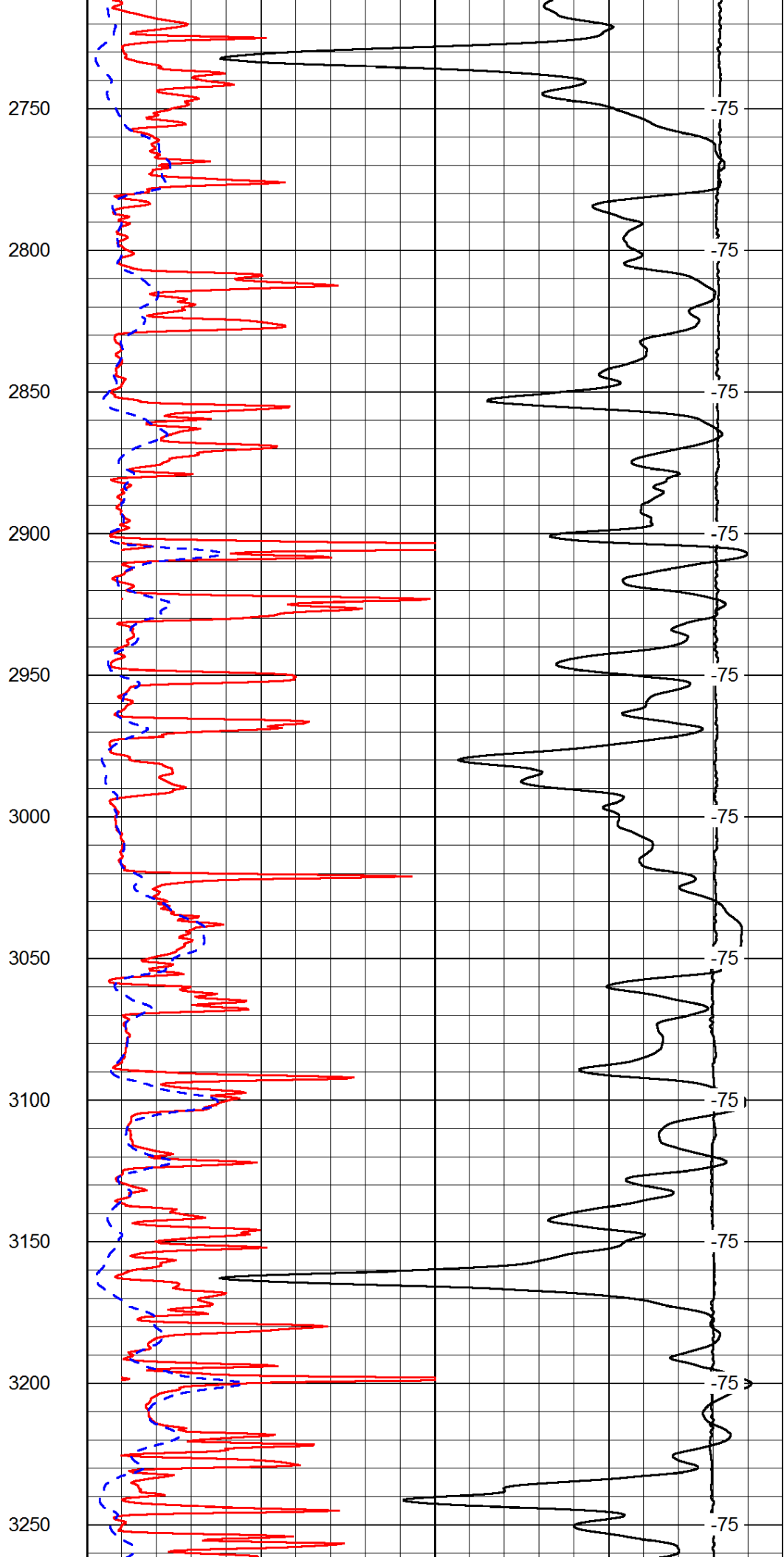
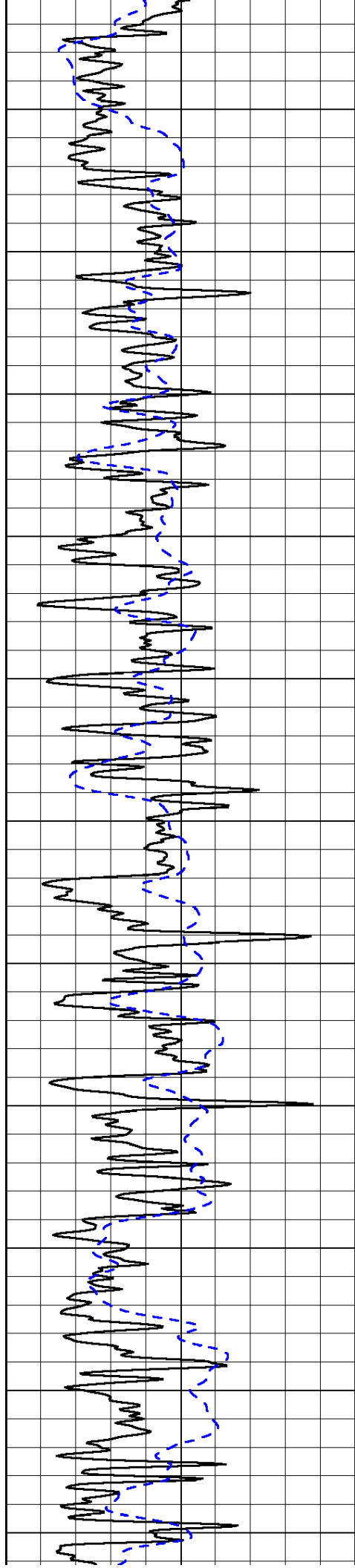
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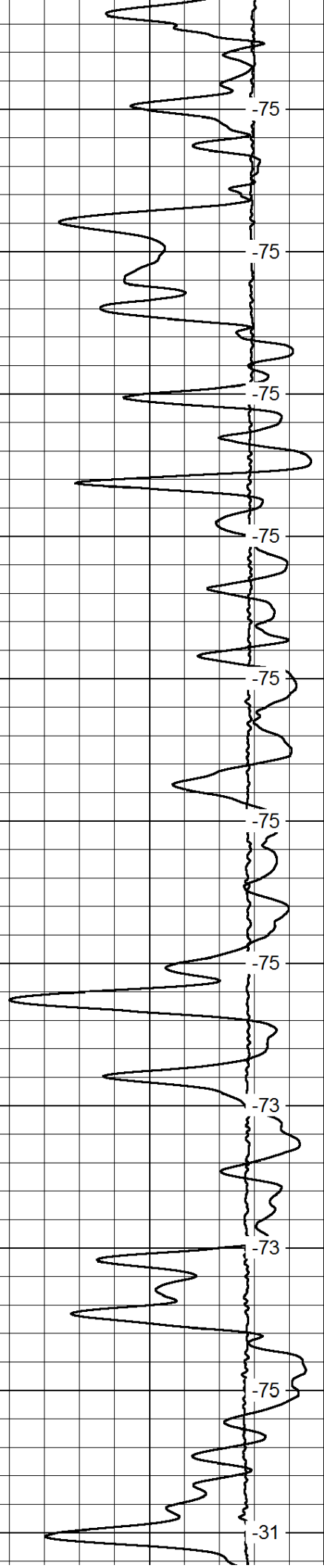
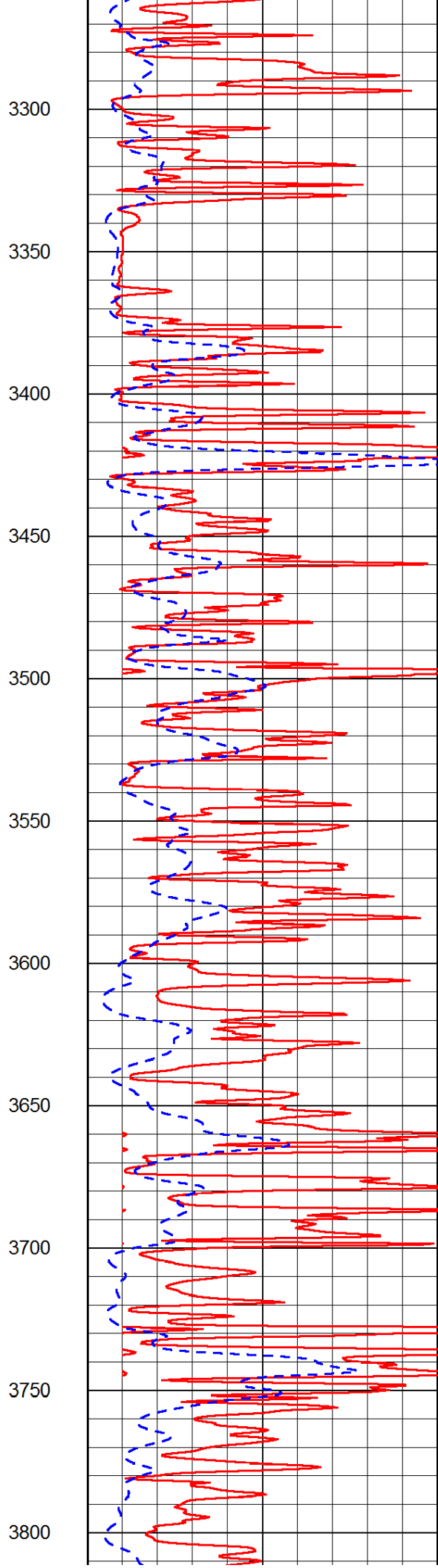
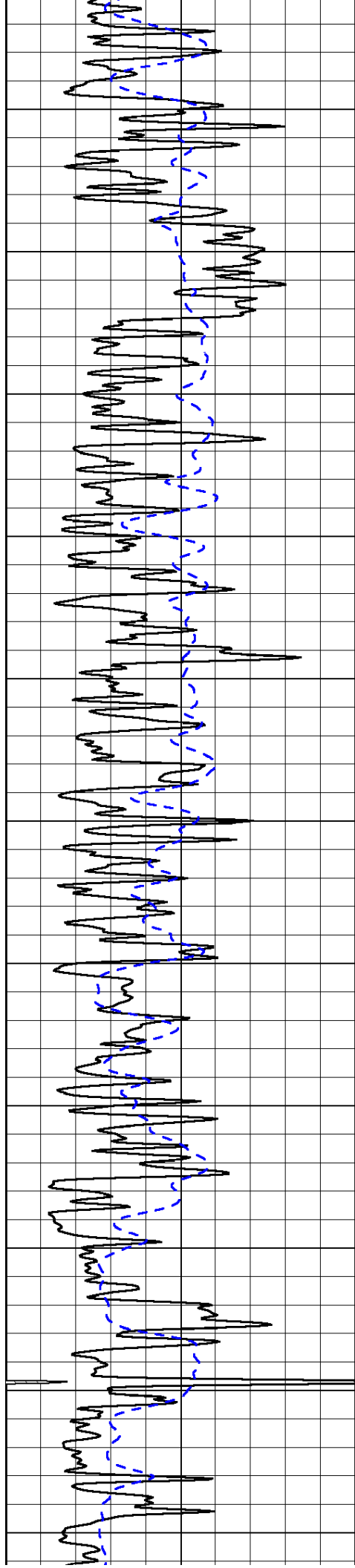
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

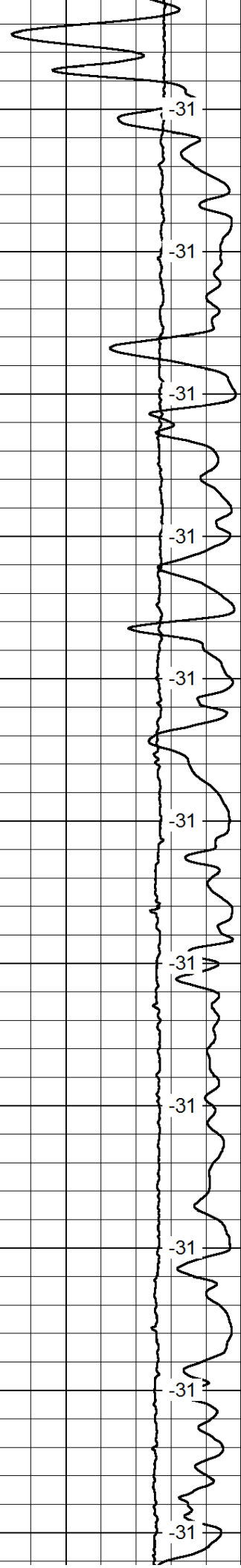
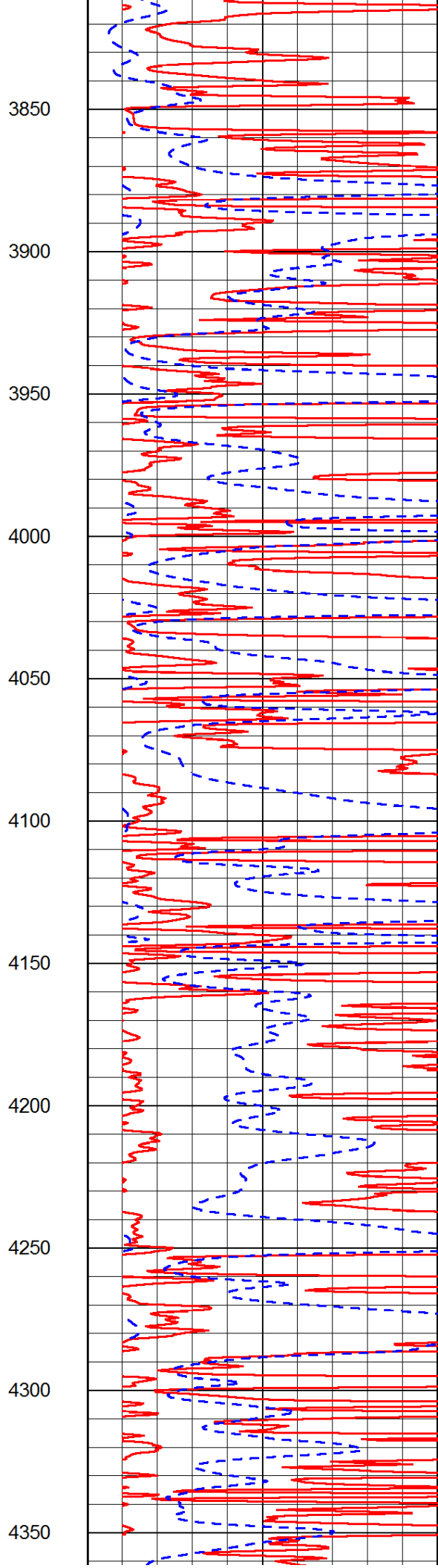
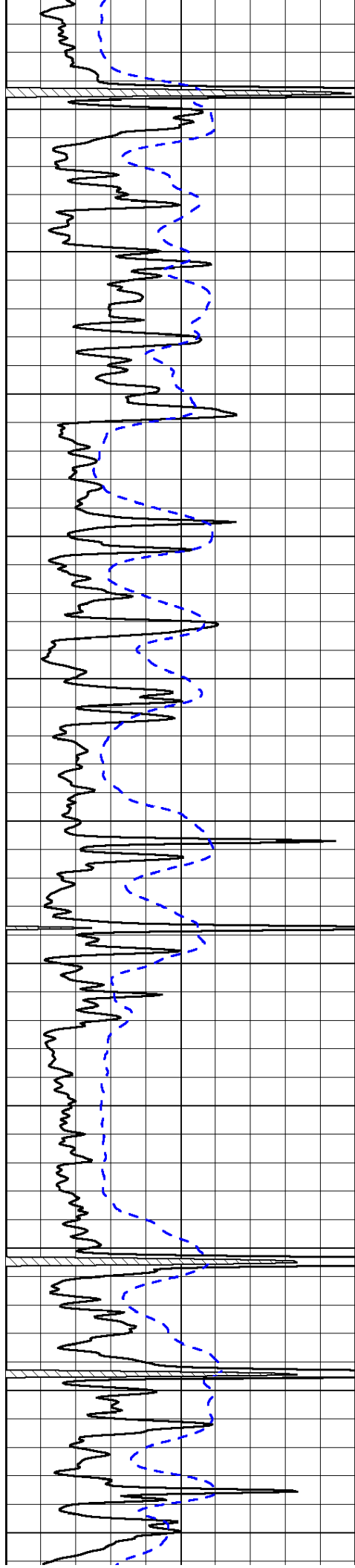
LSPD
0
0

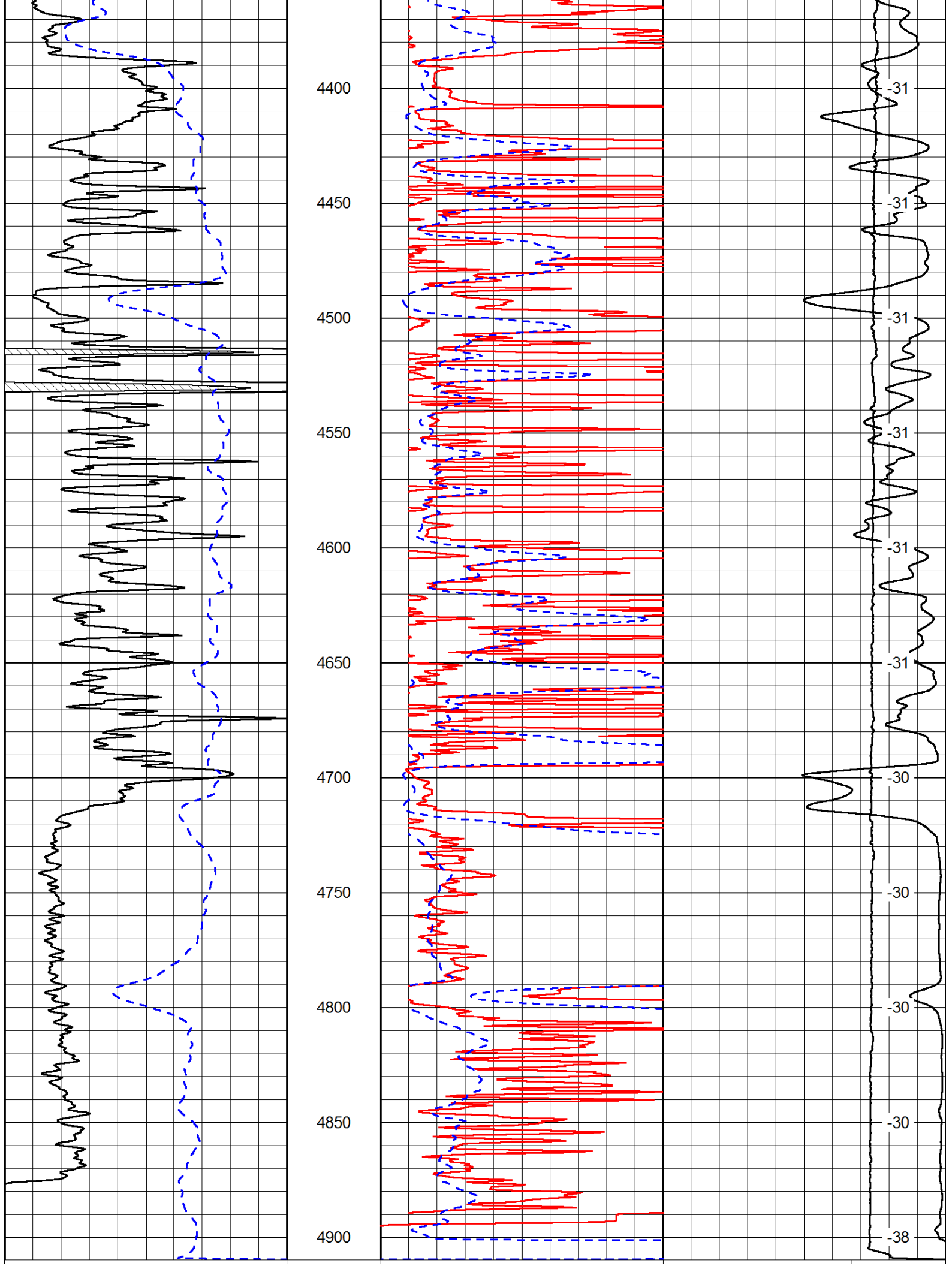








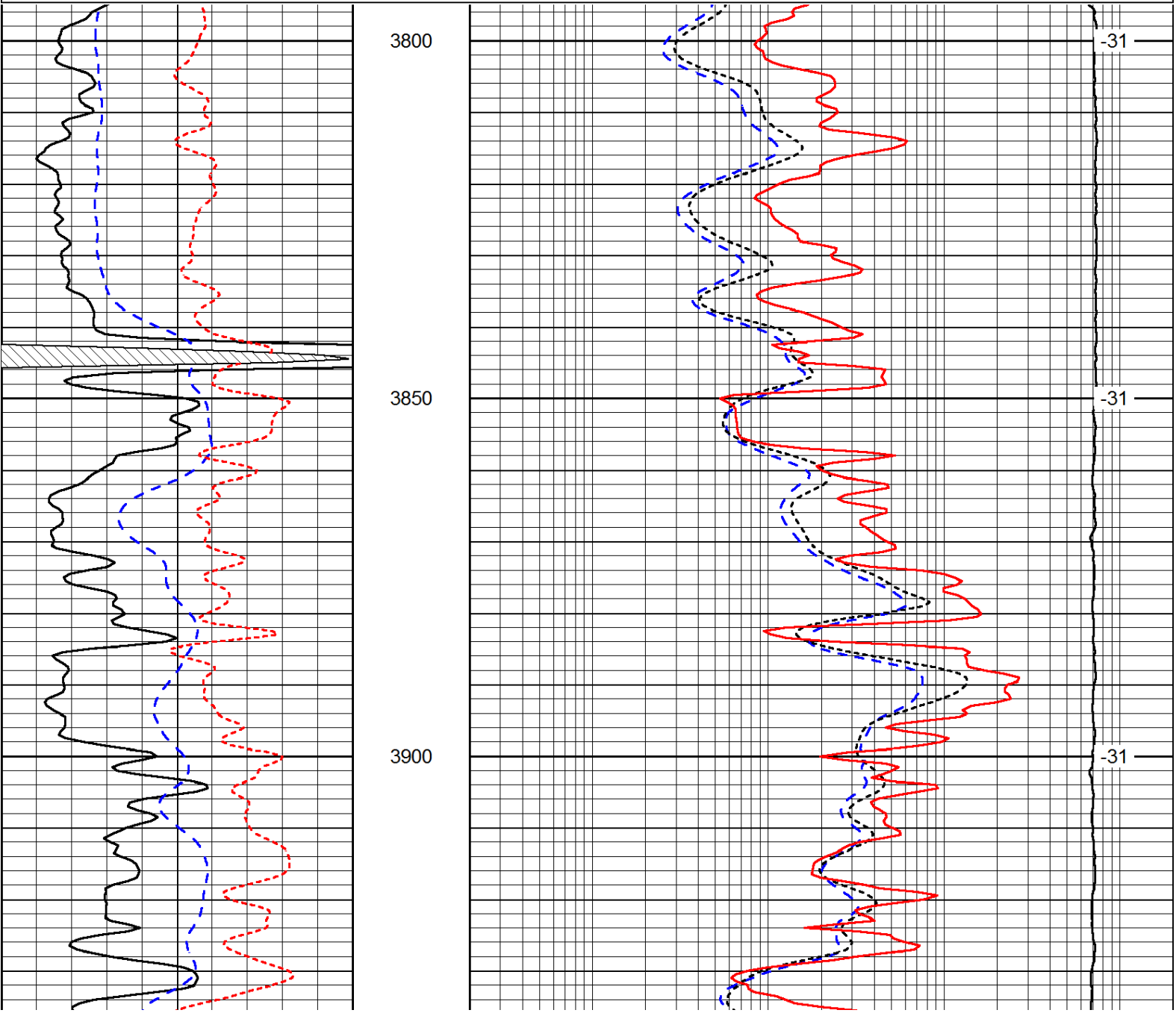


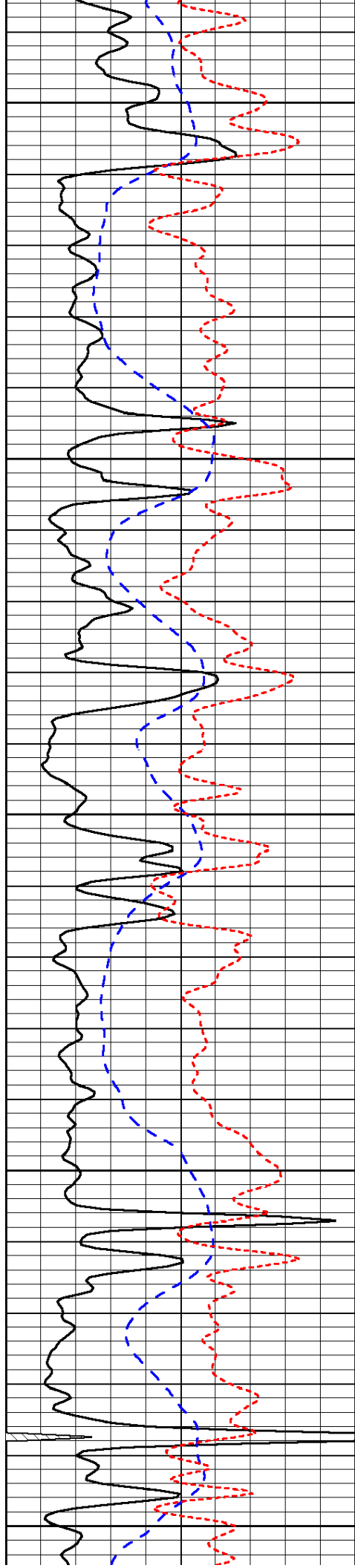


0	Gamma Ray	150
-200	SP (mV)	0

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

Database File: c:\warrior\data\amwar_congdon #12-28\awhd.db		
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Presentation Format: dil		
Dataset Creation: Tue Feb 04 17:30:12 2014		
Charted by: Depth in Feet scaled 1:240		
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-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		





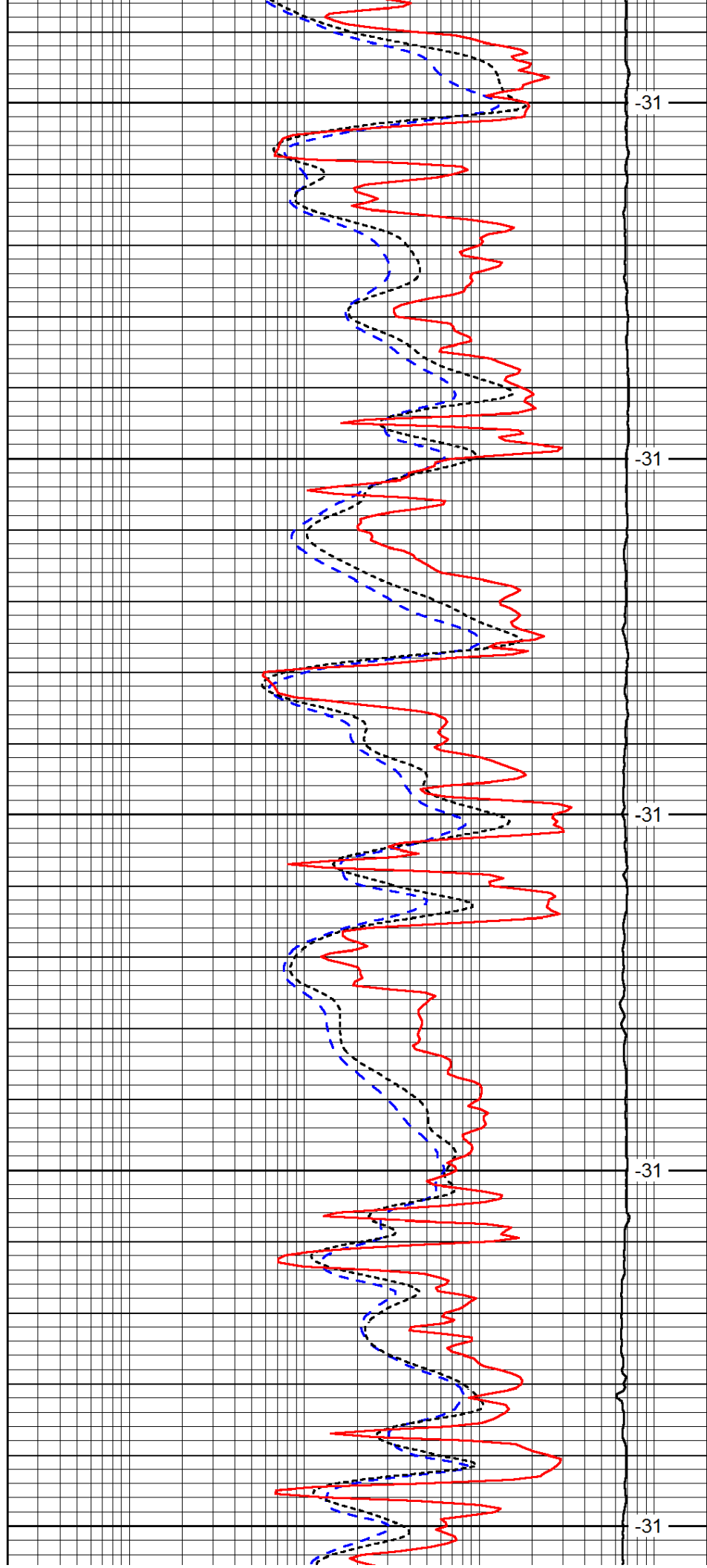
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4000

4050

4100

4150



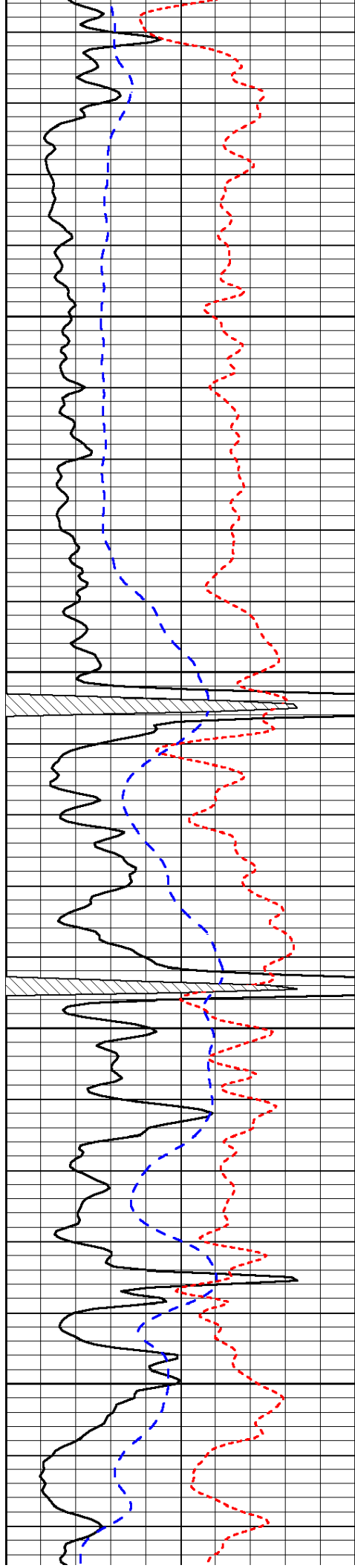
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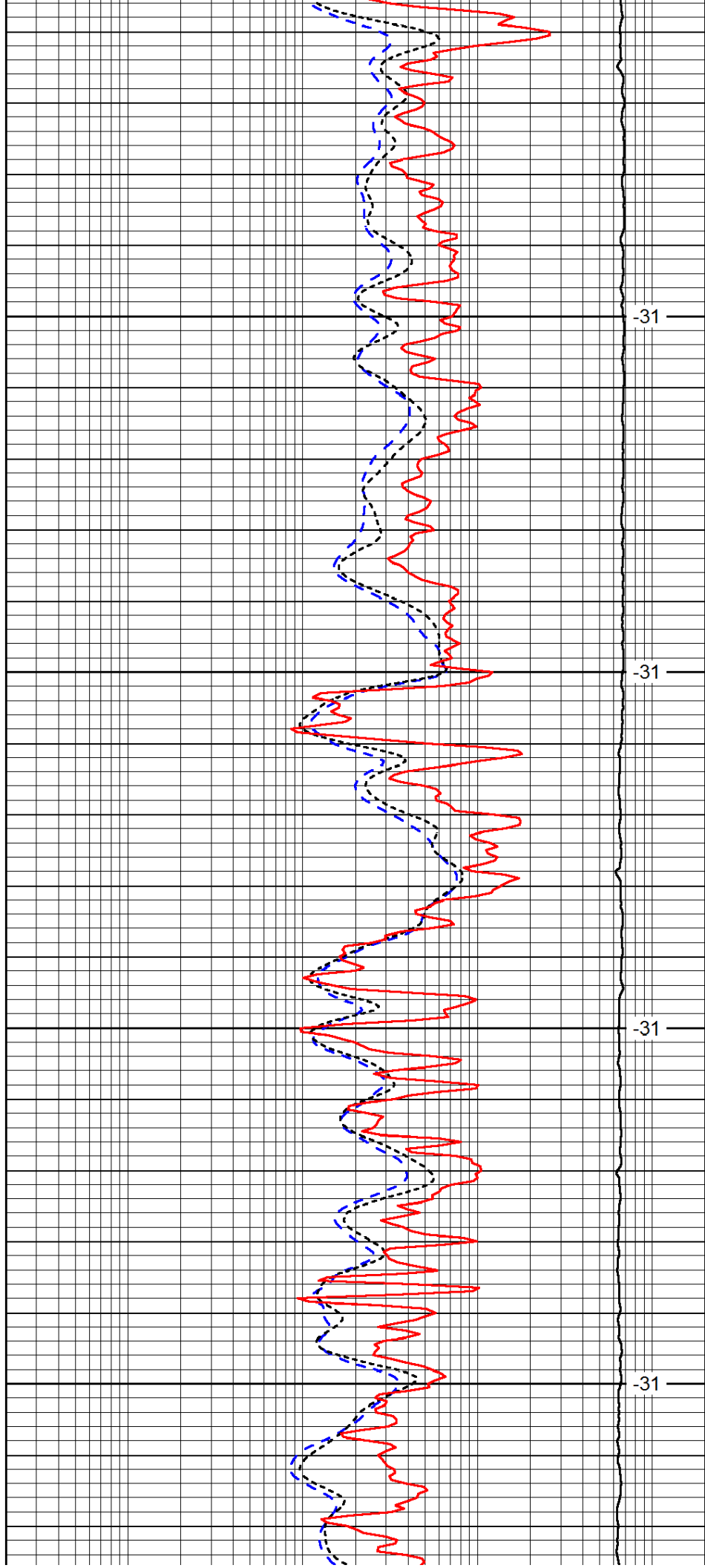


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4250

4300

4350

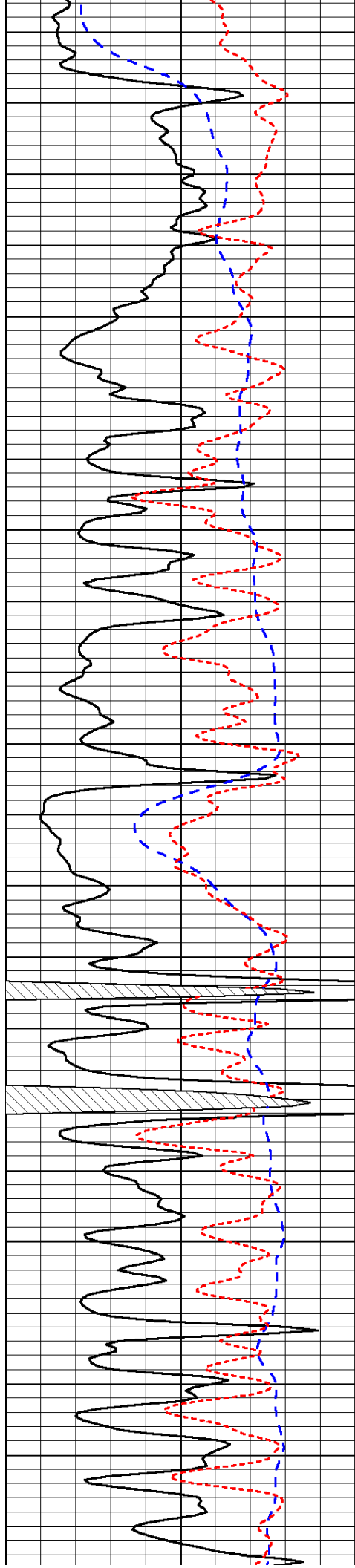


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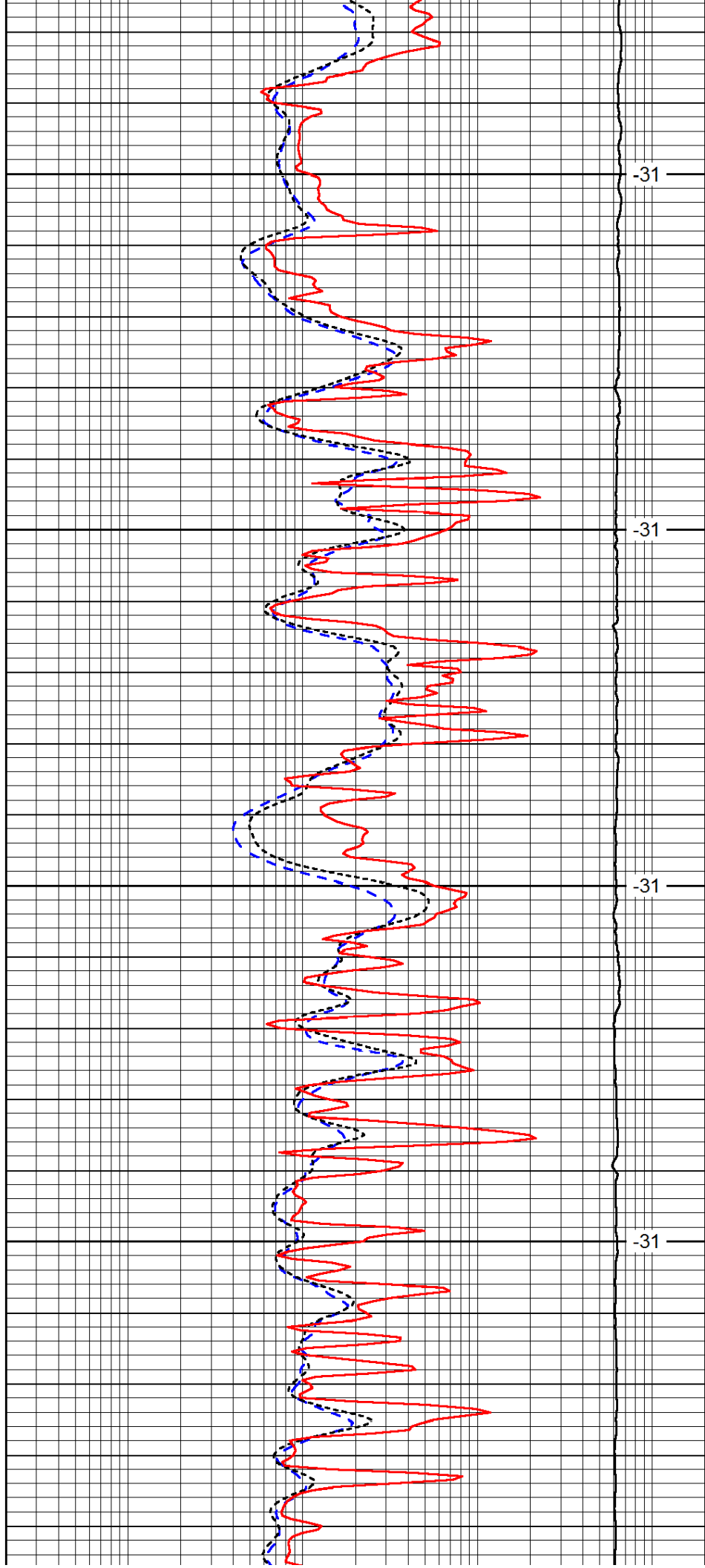


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4450

4500

4550

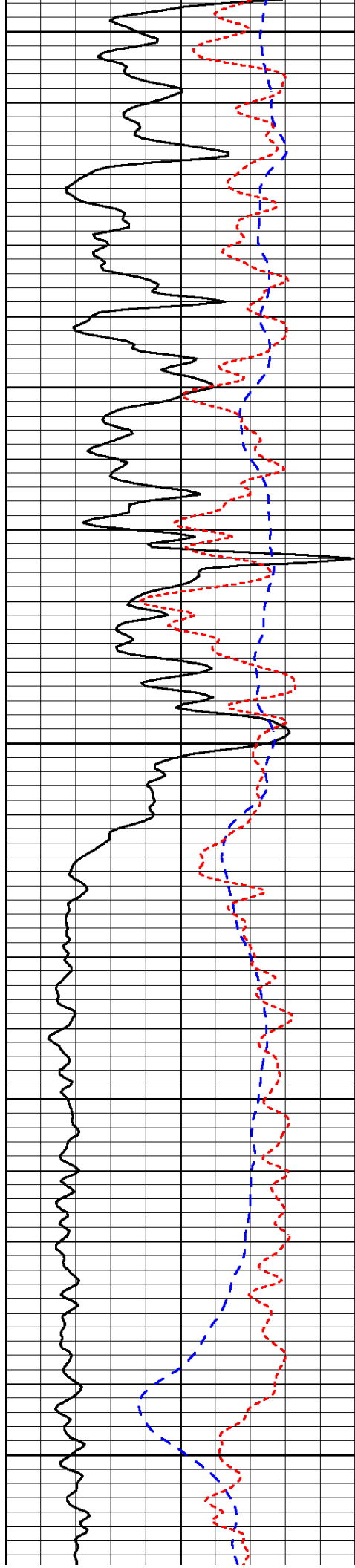


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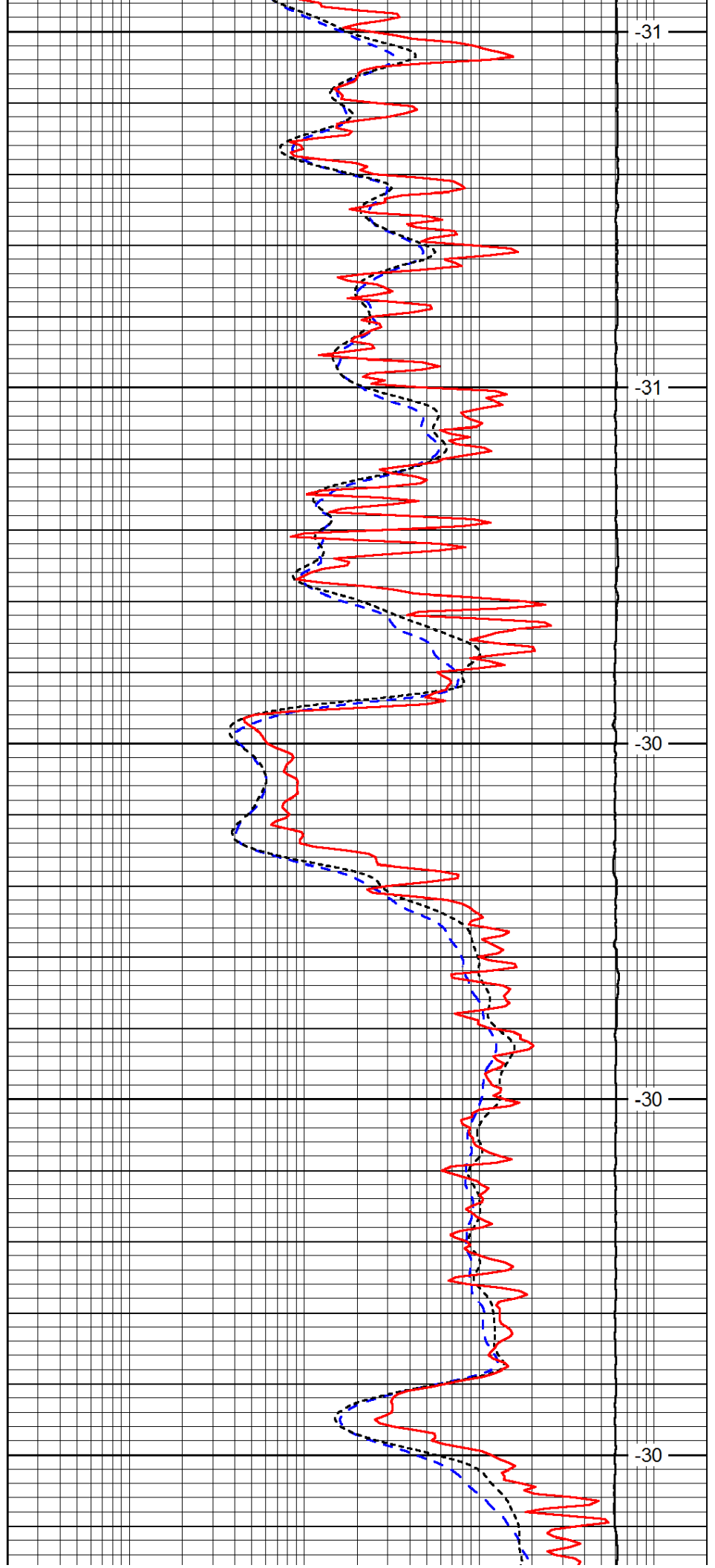
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4650

4700

4750

4800



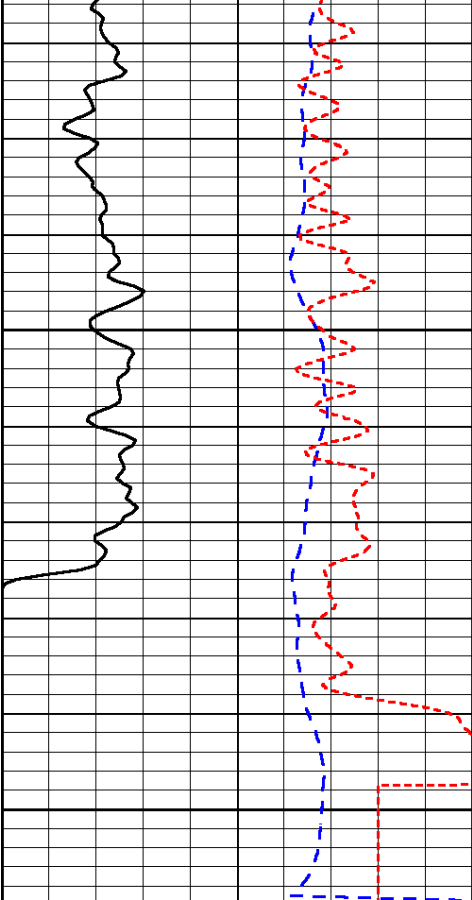
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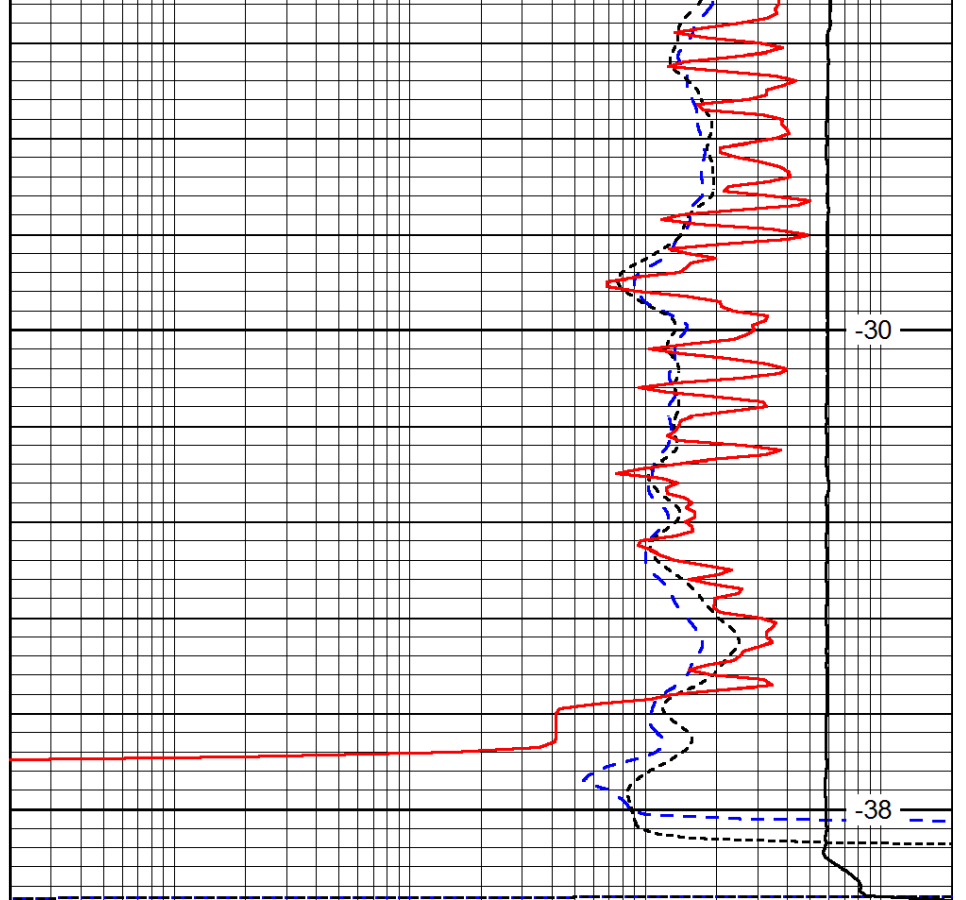
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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

4850

4900



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

-30

-38

LSPD