



Pioneer Energy Services

Dual Induction Log

15-135-25,419-00-00

API No.

Company American Warrior, Inc.

Well Ryersee #4-35

Field Ryersee

County Ness State

Kansas

Location 1200' FSL & 2310' FEL

Sec: 35 Twp: 18 S Rge: 21 W

Permanant Datum Ground Level Elevation 2131

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL

Elevation
K.B. 2139
D.F. 2131
G.L. 2131

Date 8/08/2012

Run Number One

Depth Driller 4240

Depth Logger 4244

Bottom Logged Interval 4243

Top Log Interval 1300

Casing Driller 8.625 @ 1348

Casing Logger 1344

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 6.800

Density / Viscosity 9.3 70

pH / Fluid Loss 10.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp .65 @ 78

Rmf @ Meas. Temp .49 @ 78

Rmc @ Meas. Temp .88 @ 78

Source of Rmf / Rmc Charts

Rm @ BHT .42 @ 120

Operating Rig Time 3 Hours

Max Rec. Temp. F 120

Equipment Number 91

Location Hays

Recorded By K. Bange

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.pioneerenergy.com
 785 625 3858
 Alexander, 2 1/2 W,
 S (through cattle guard)
 1 1/2 S and W into
 (follow lease rd)

Database File: c:\warrior\data\amwar_ryersee #4-35\amwarrior080812hd.db
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 Charted by: Depth in Feet scaled 1:600

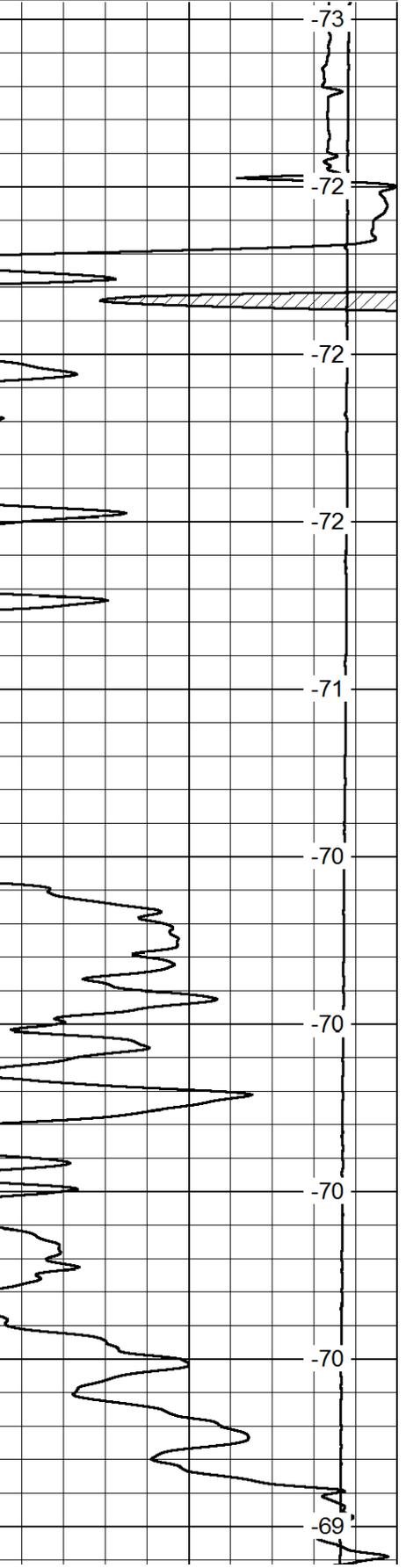
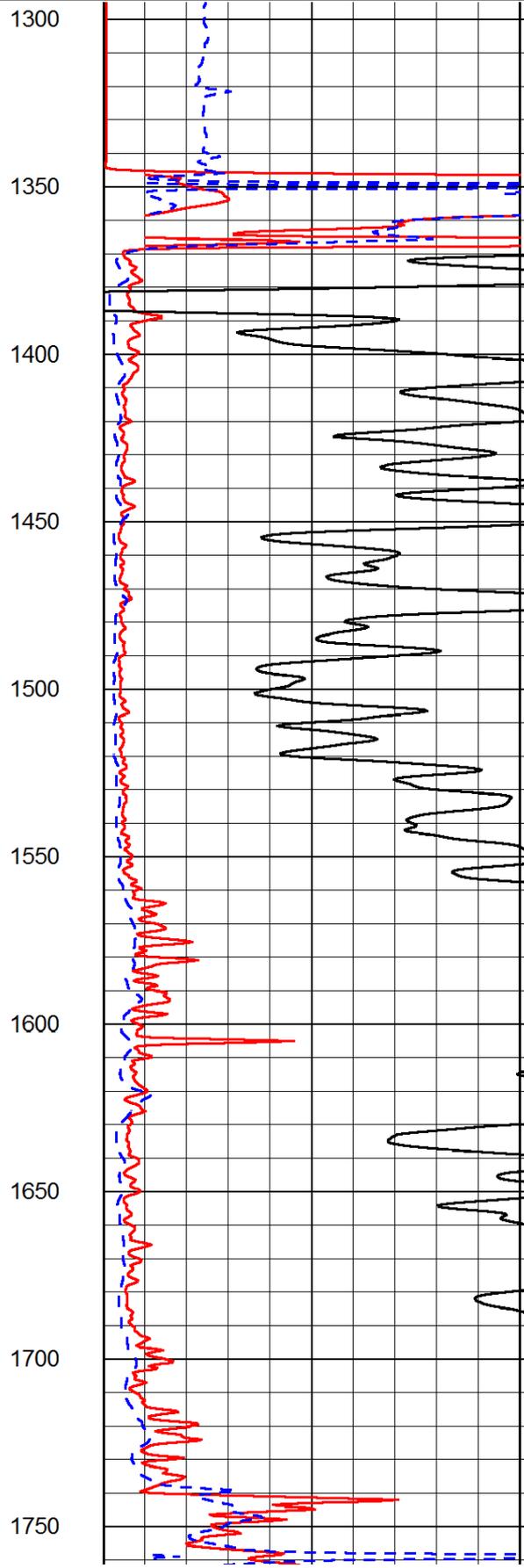
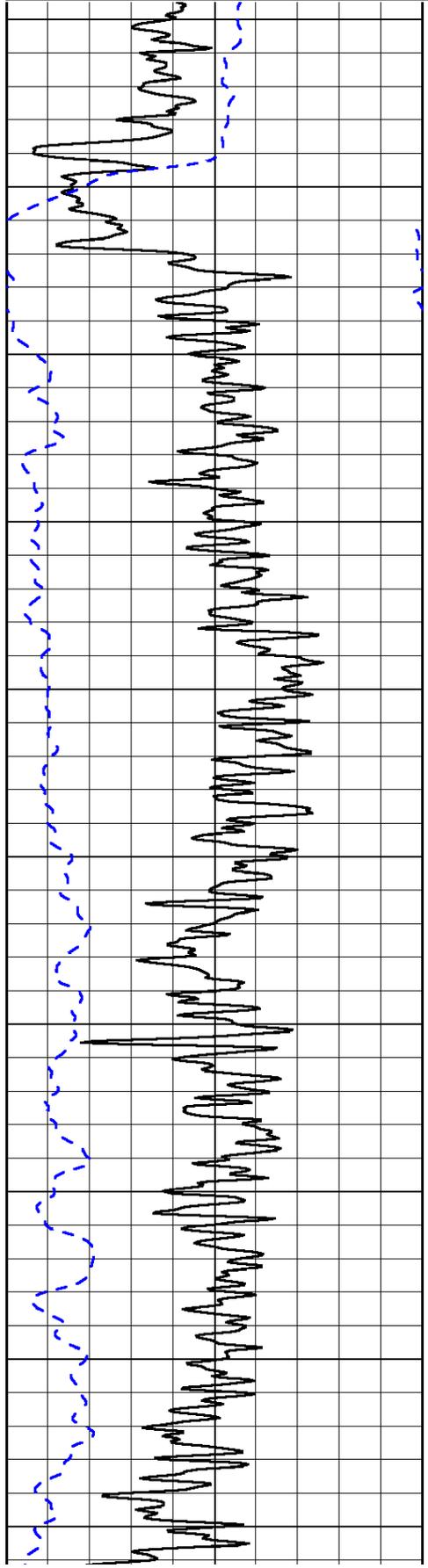
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-200	SP (mV)	0

0	Shallow Resistivity	50
0	Deep Resistivity	50

LSPD

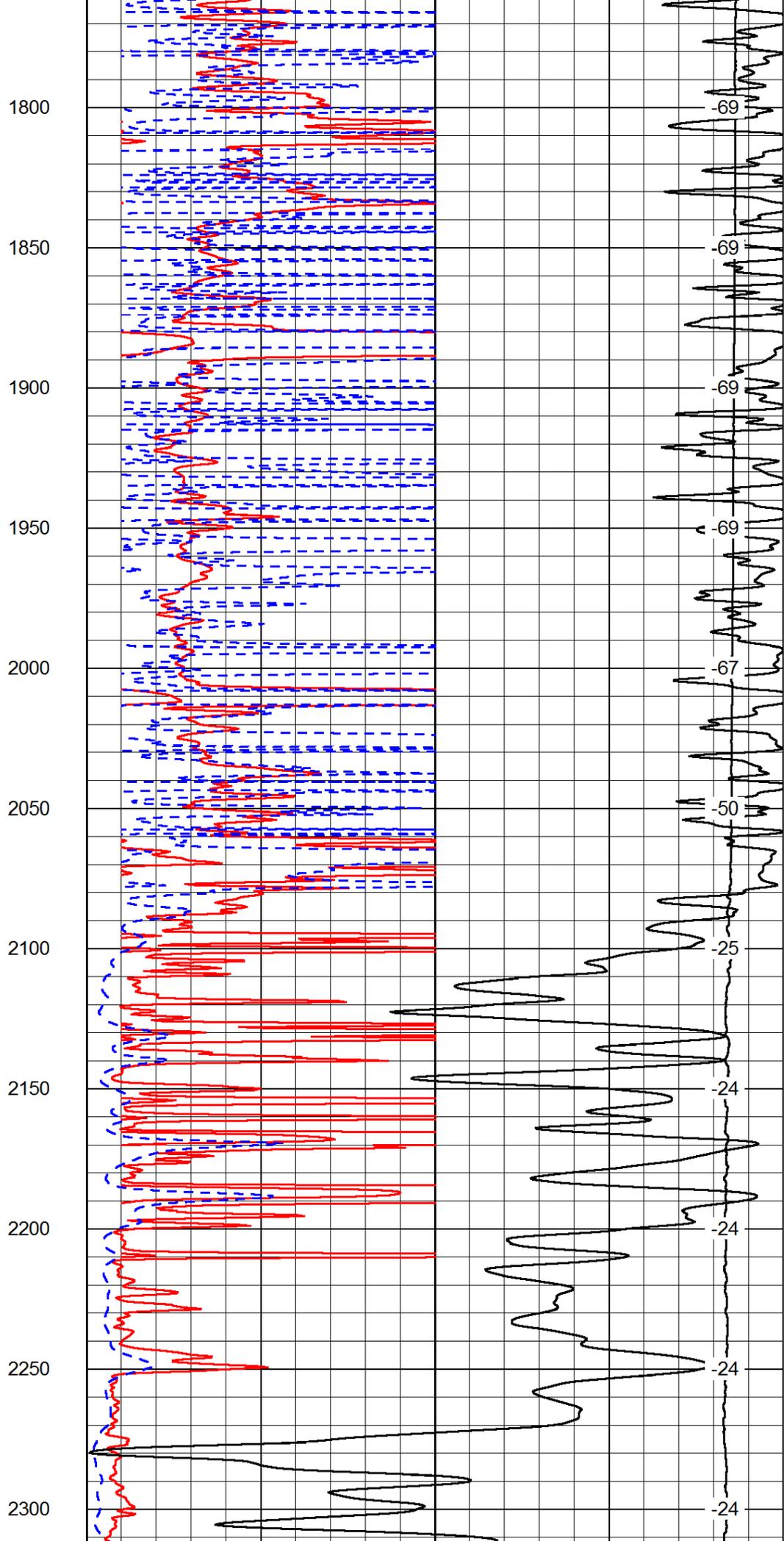
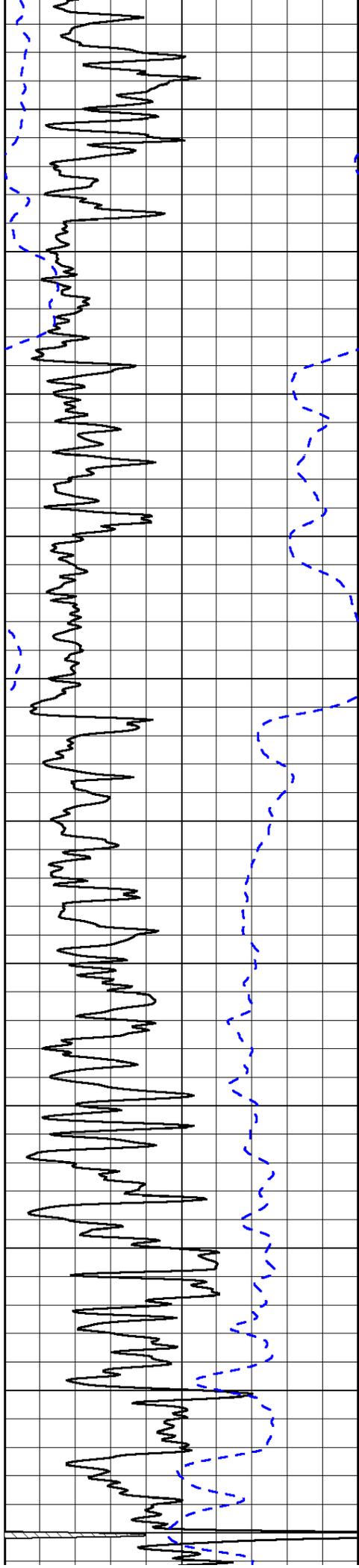
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15000	Line Tension	0

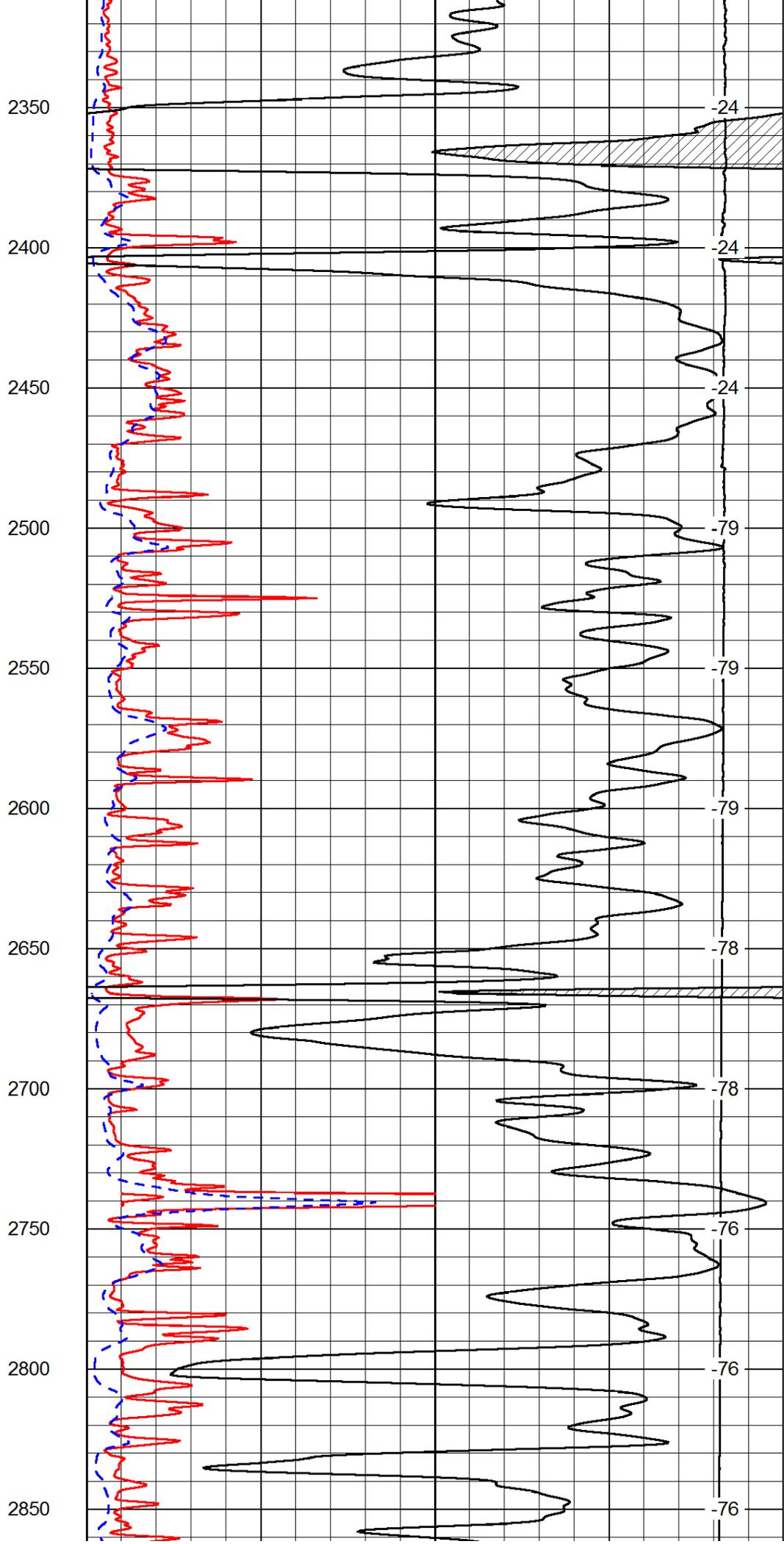
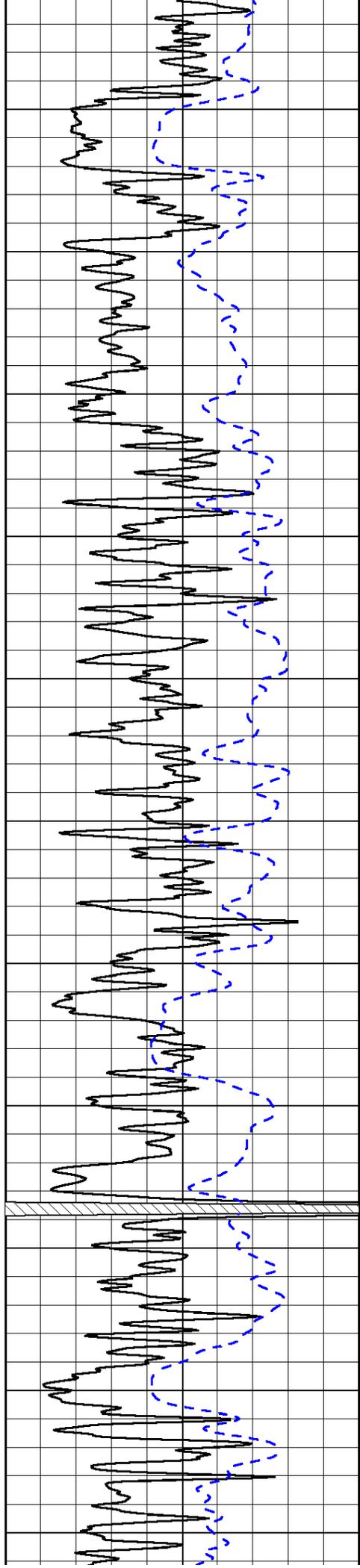
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50	Deep Resistivity	500

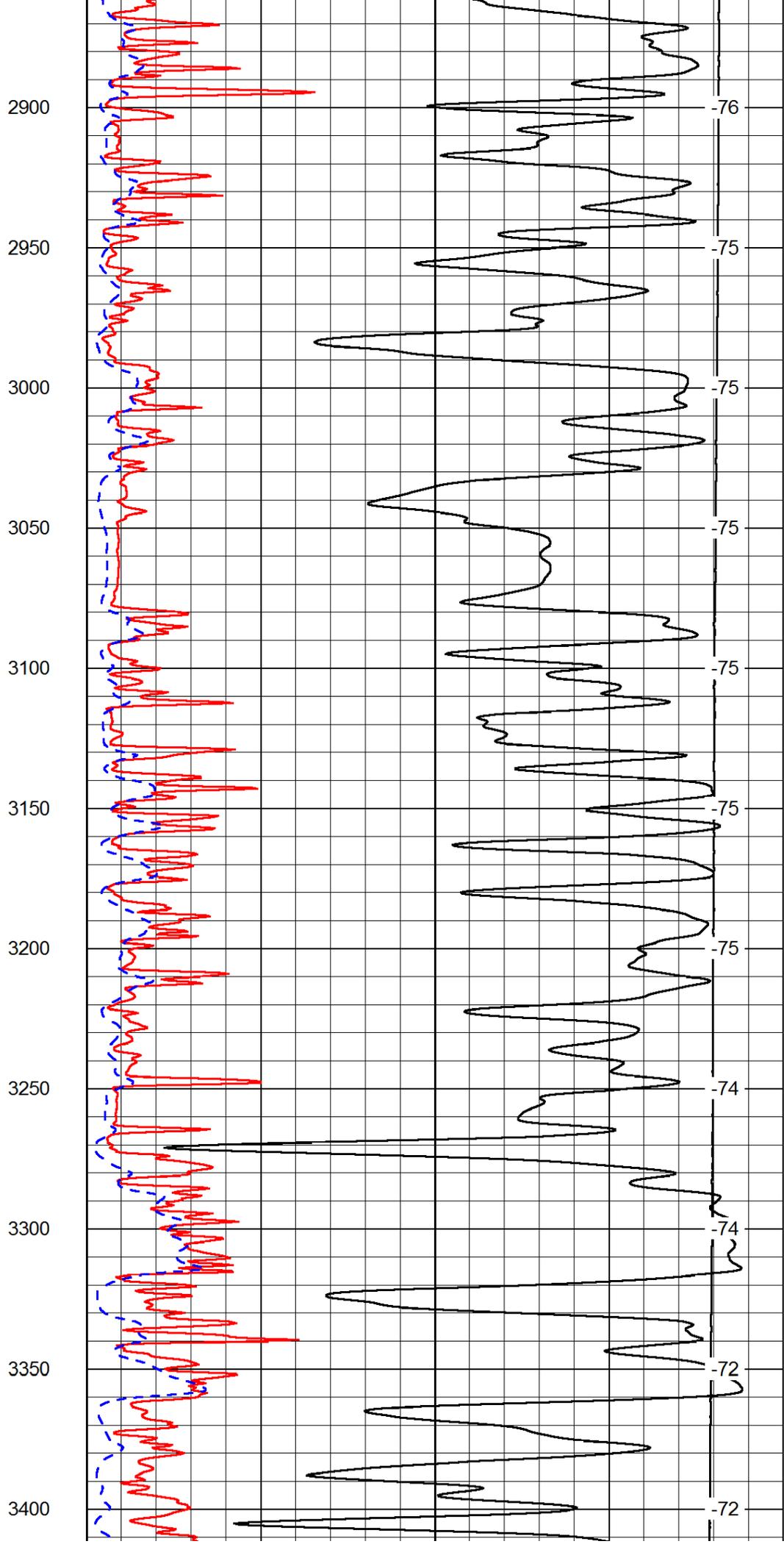
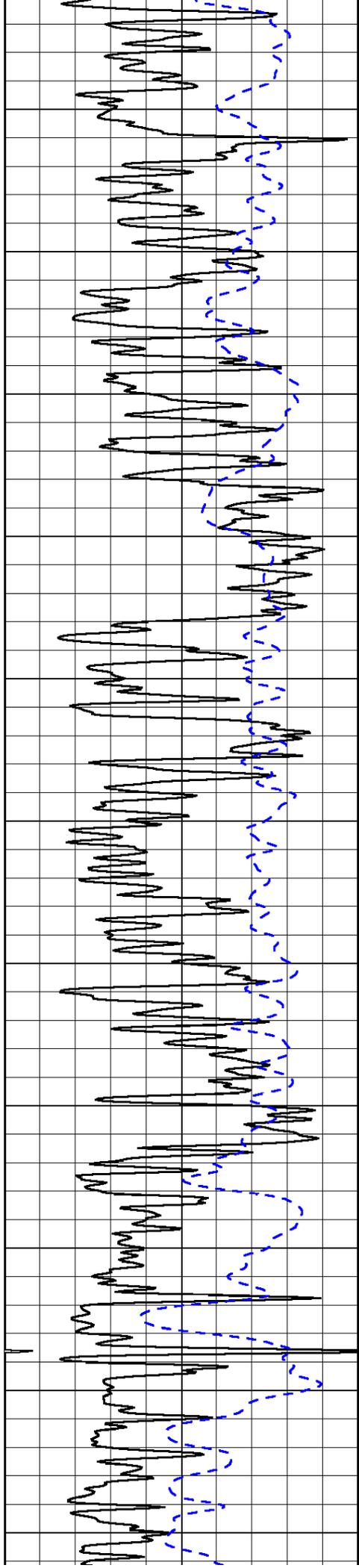


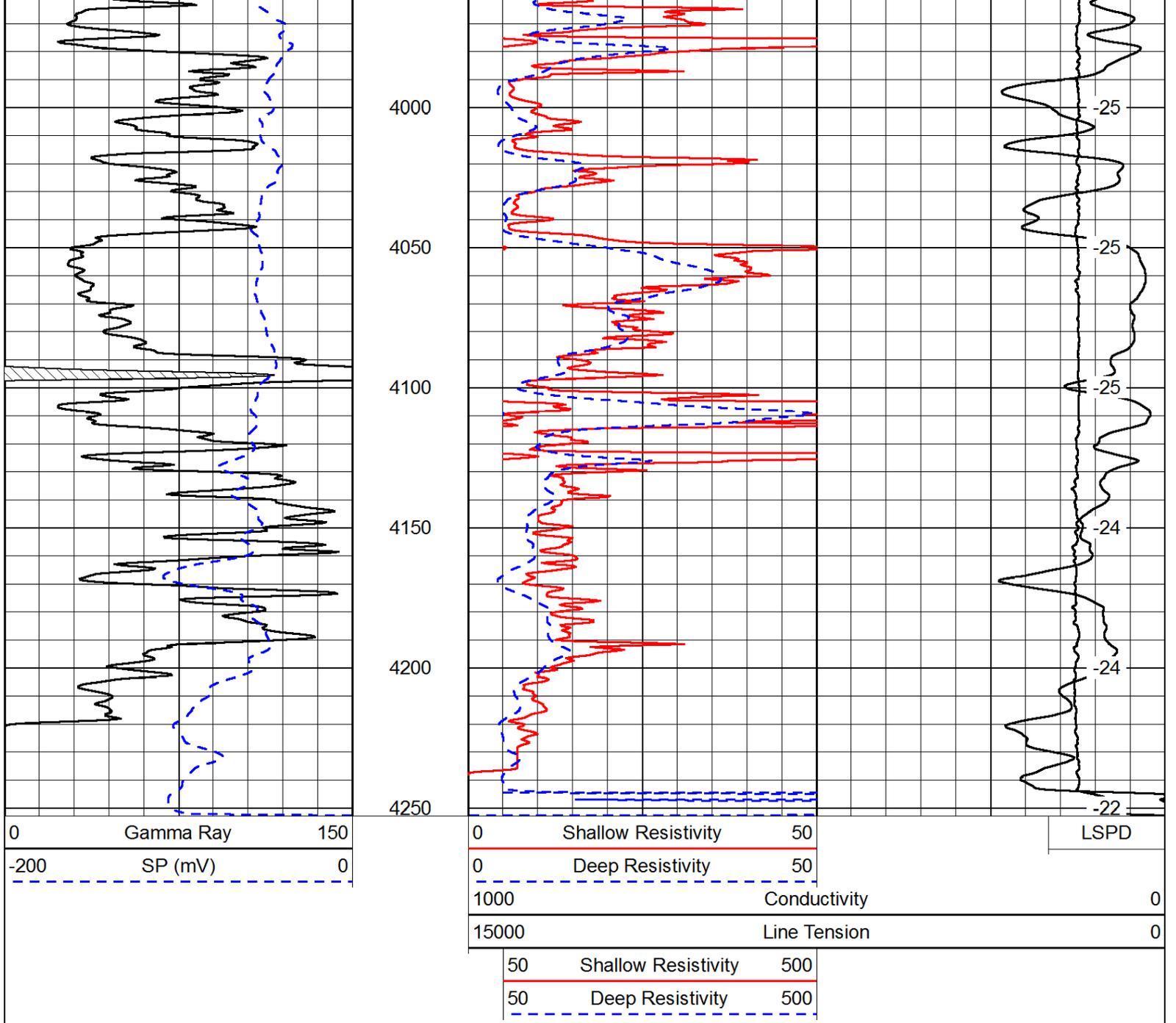
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750

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-72
-72
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-70
-70
-70
-69

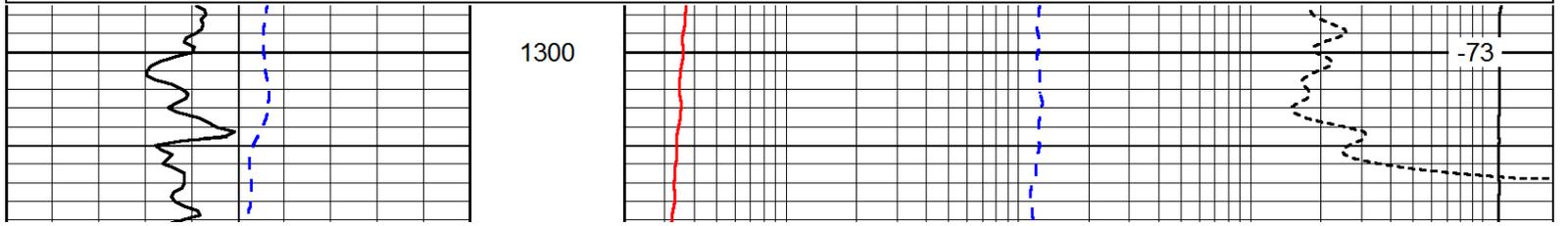
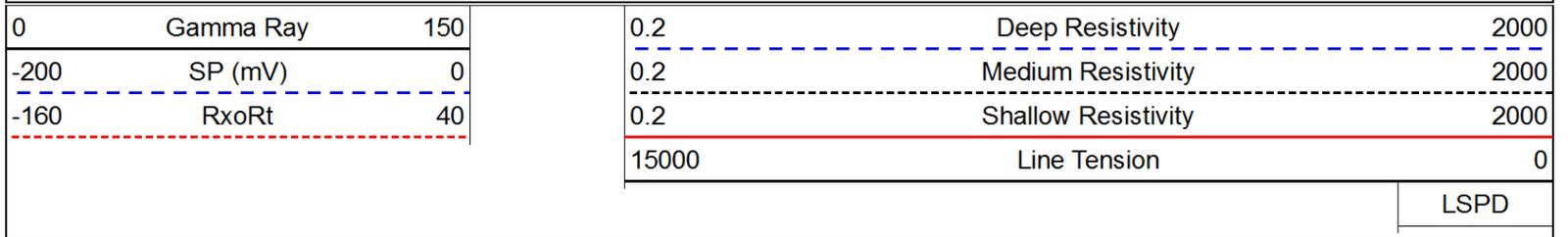


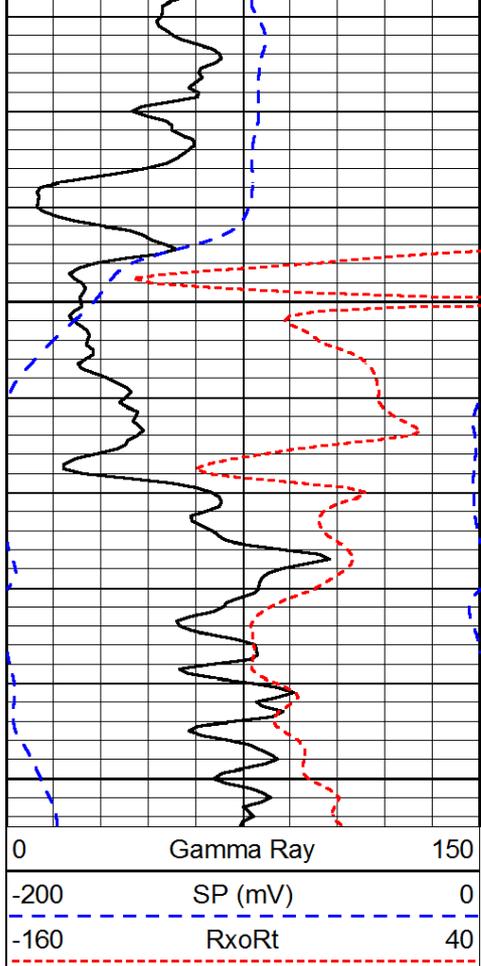






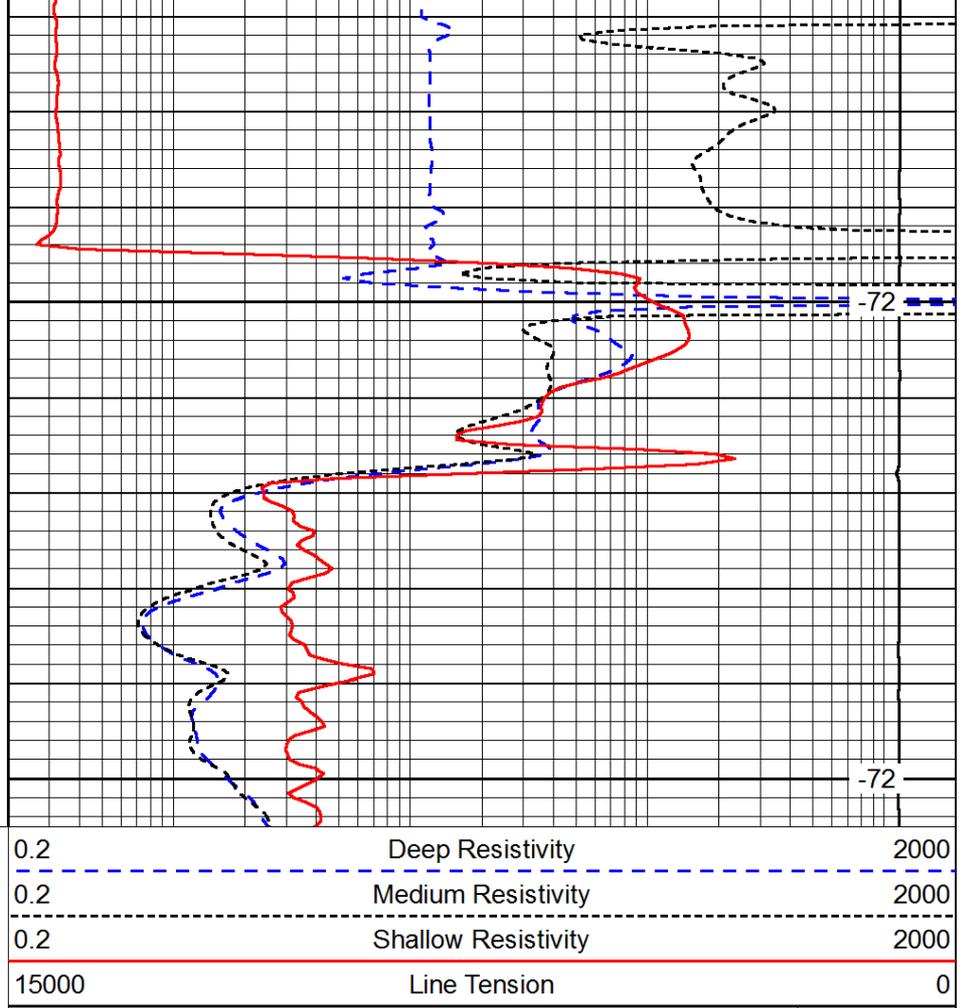
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 Presentation Format: dil
 Dataset Creation: Wed Aug 08 02:31:11 2012
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1350

1400

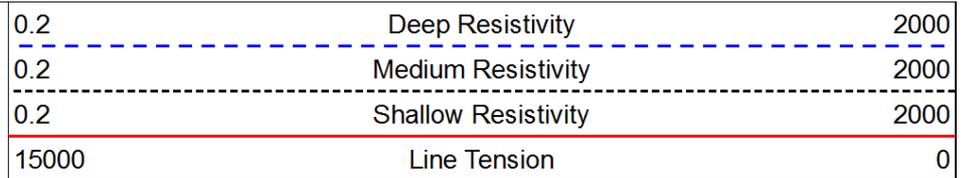
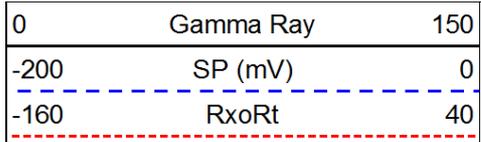


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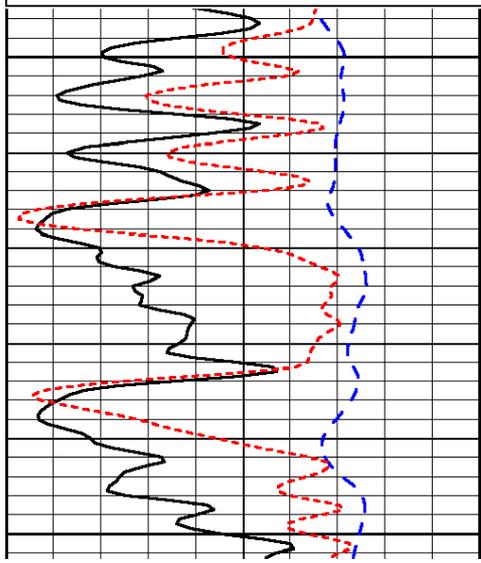
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LSPD

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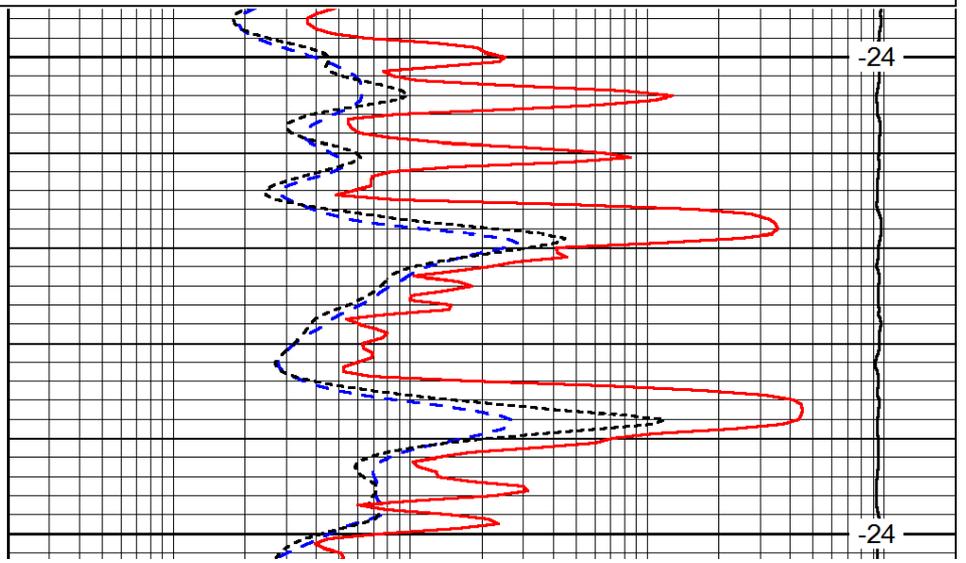


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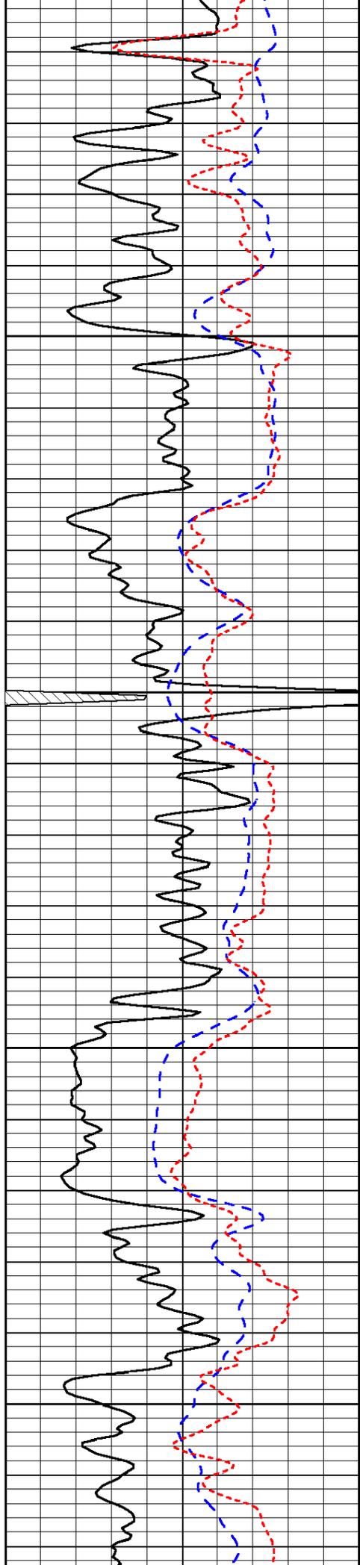
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2200



-24

-24

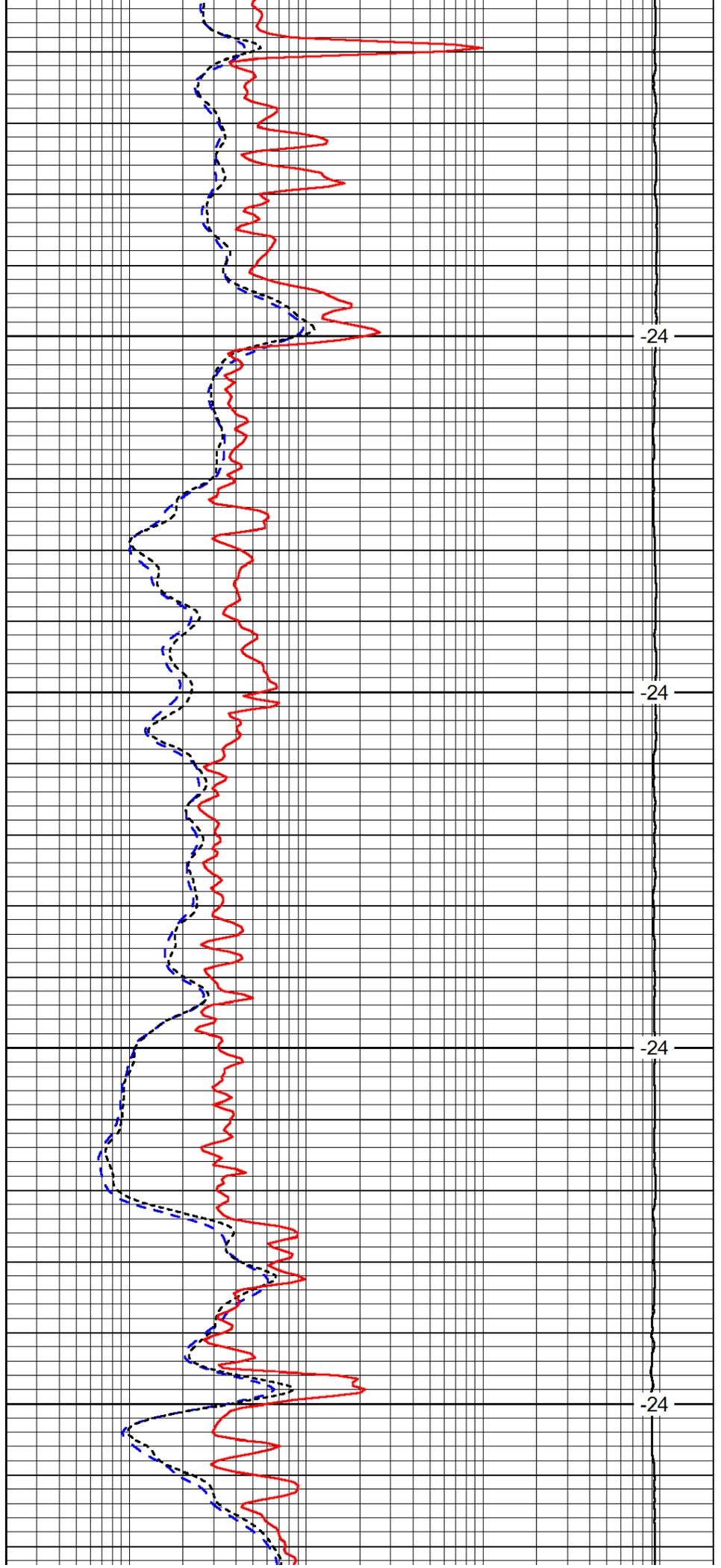


2250

2300

2350

2400

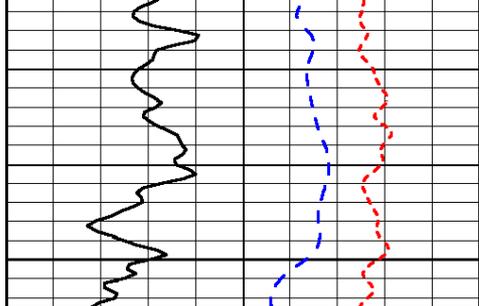


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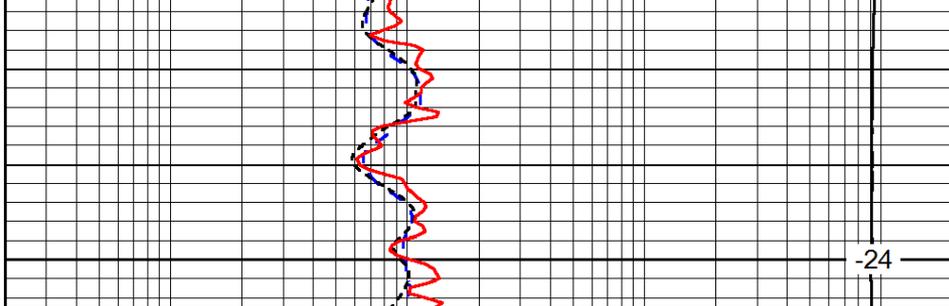
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-24



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

2450



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

-24

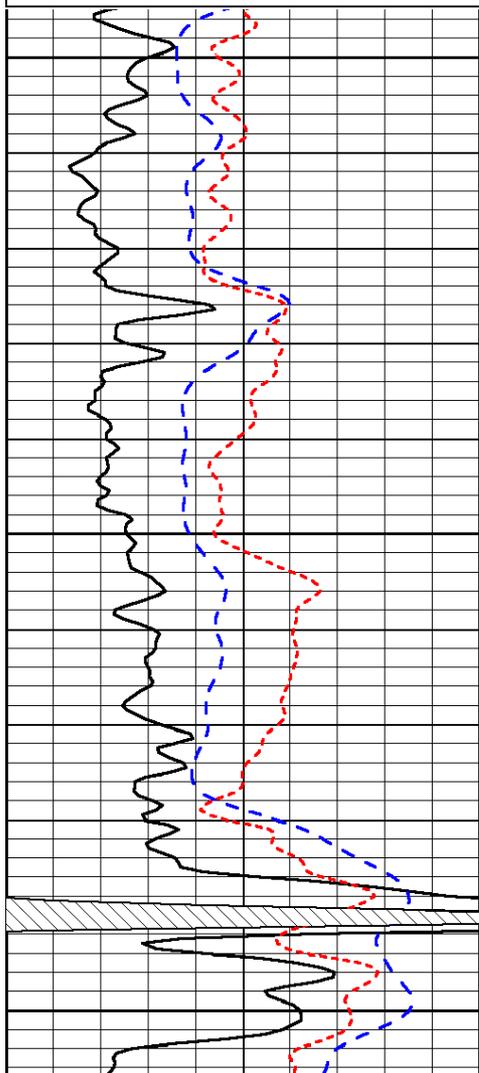
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-200	SP (mV)	0
-160	RxoRt	40

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

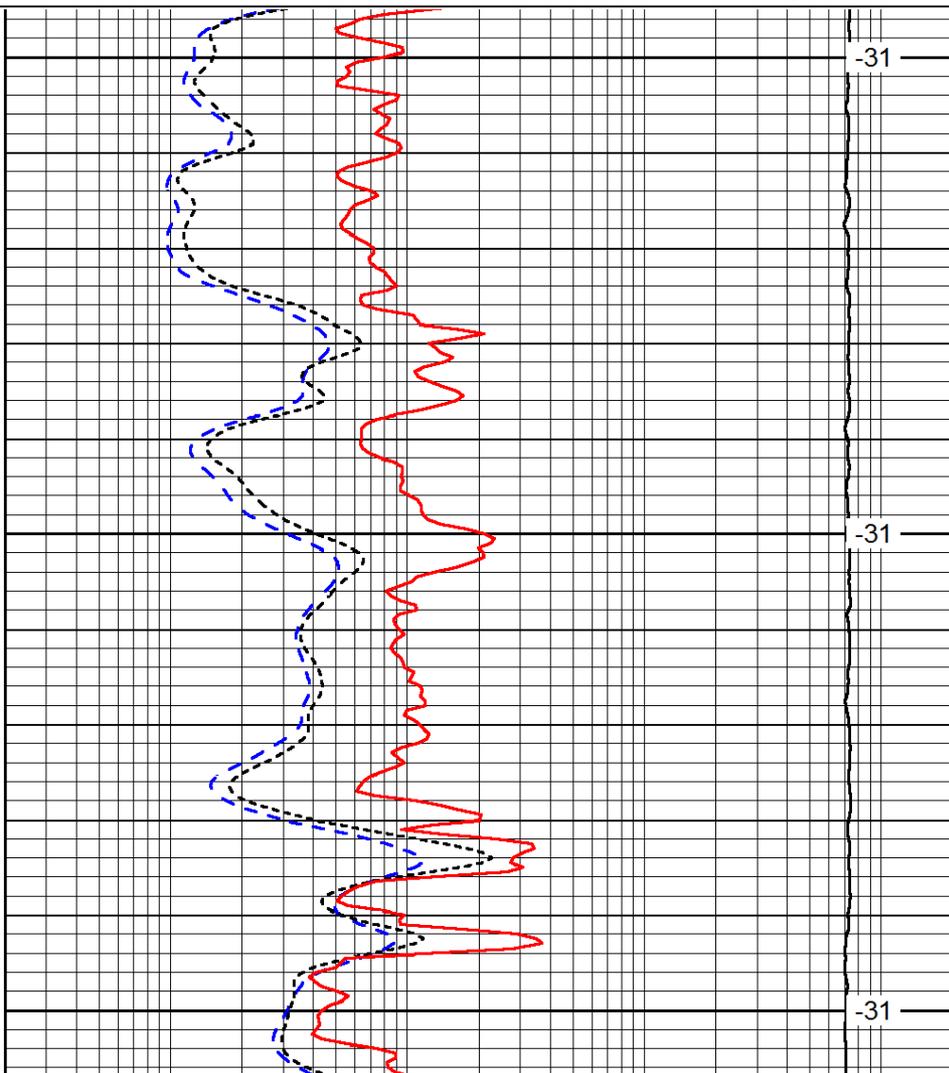
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3500

3550

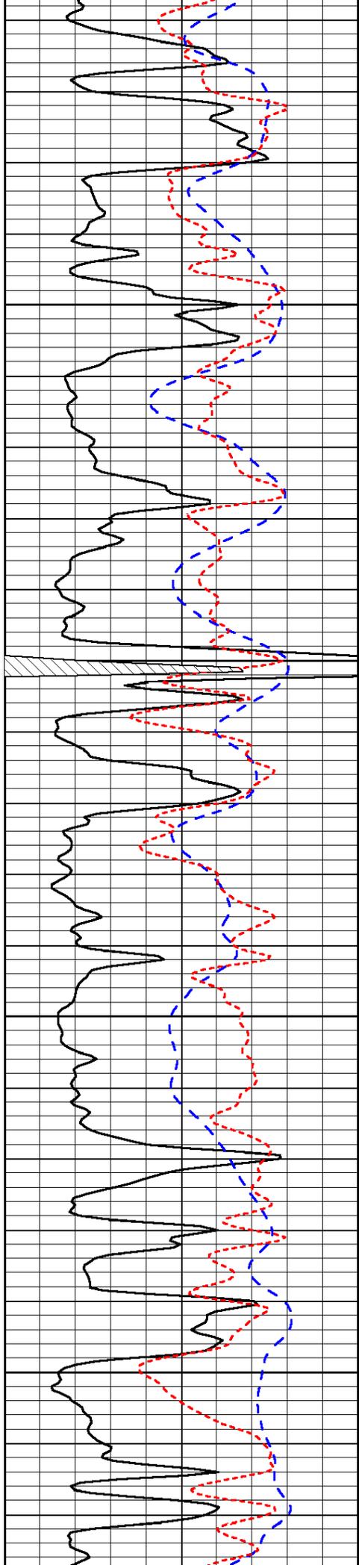
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-31

-31

-31

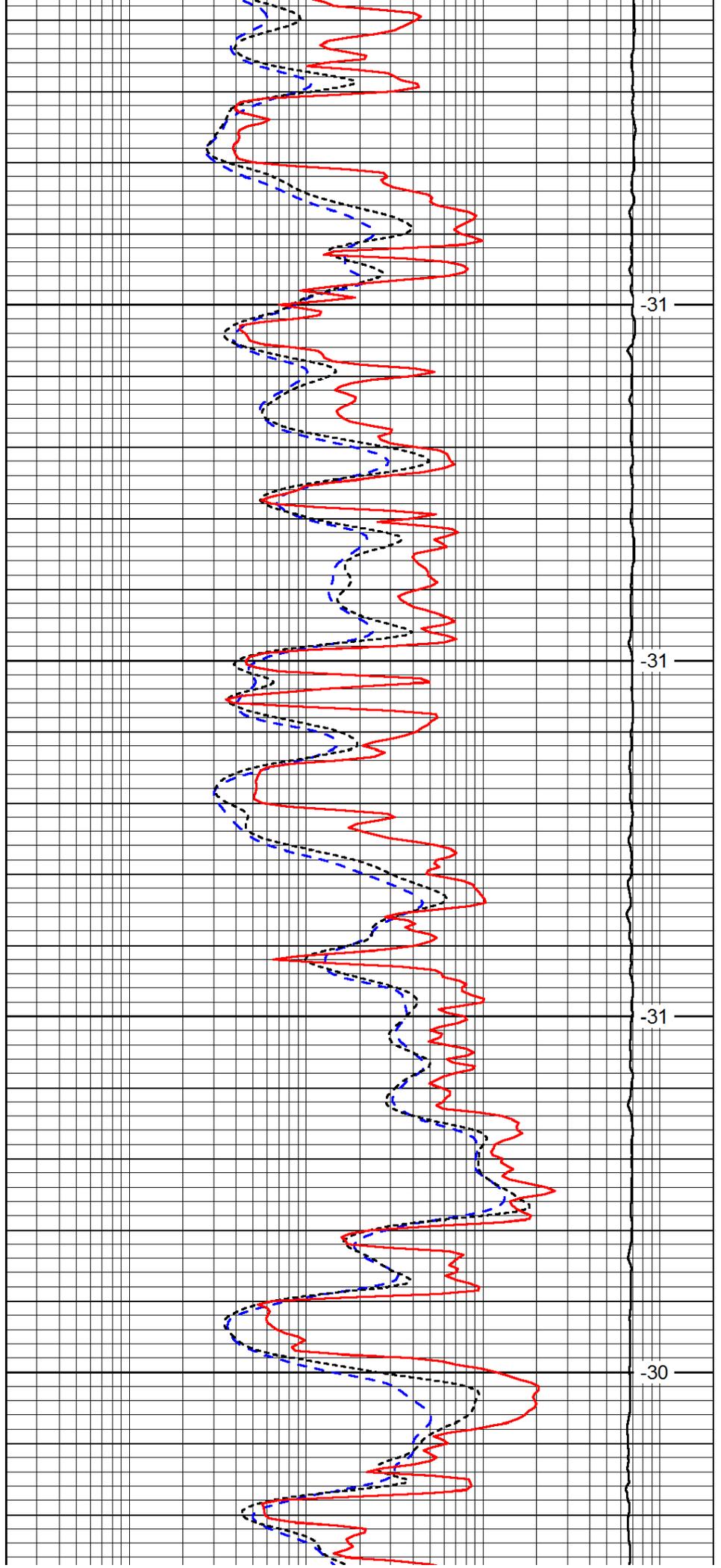


3650

3700

3750

3800

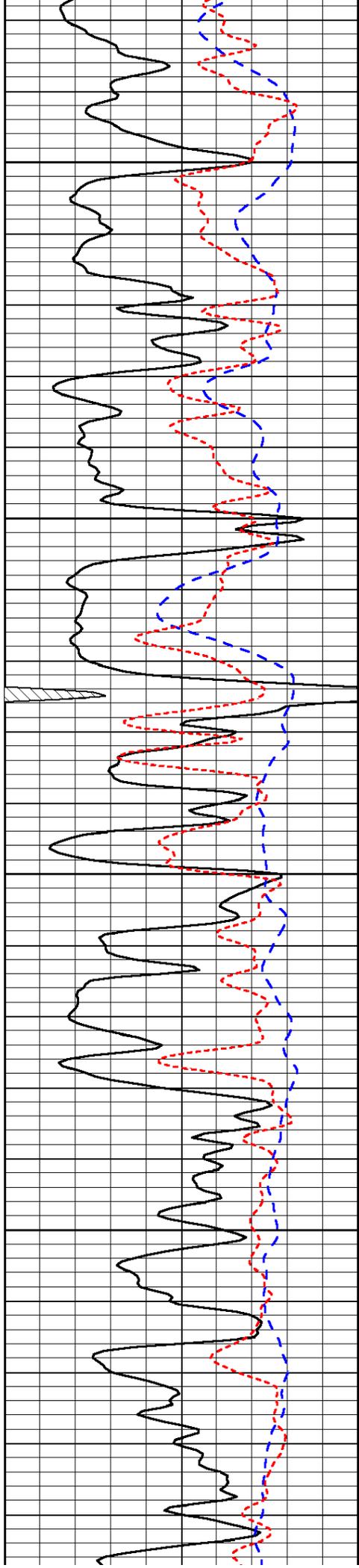


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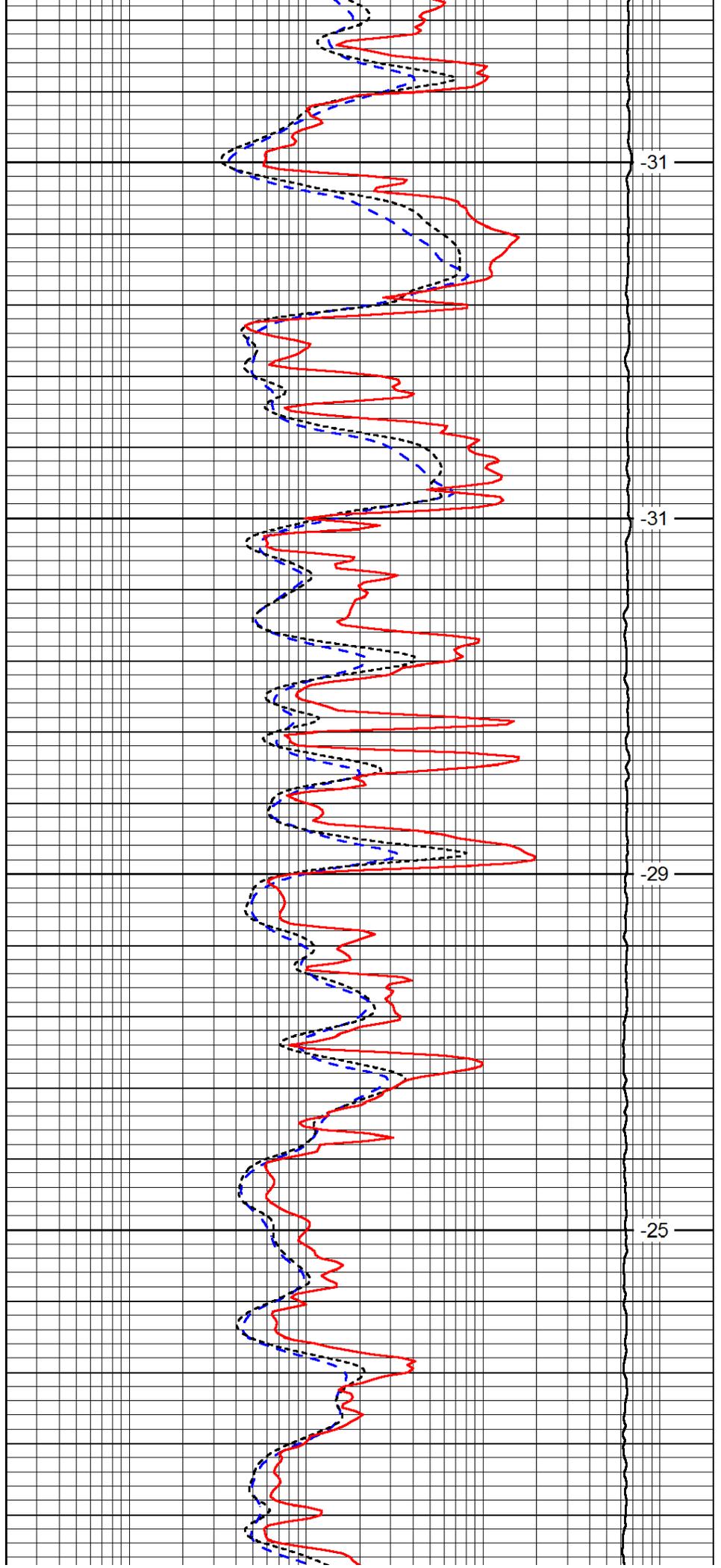


3850

3900

3950

4000

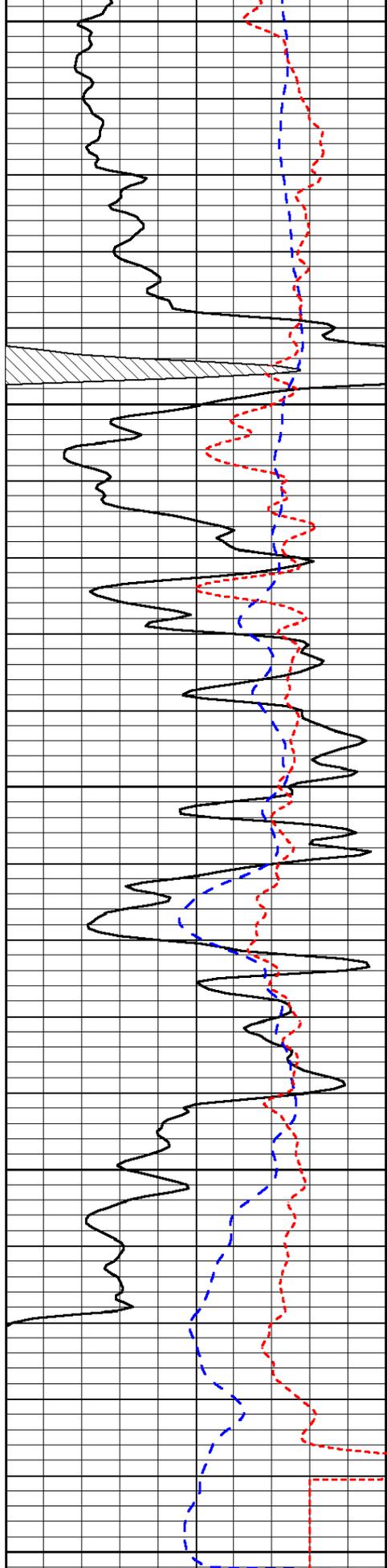


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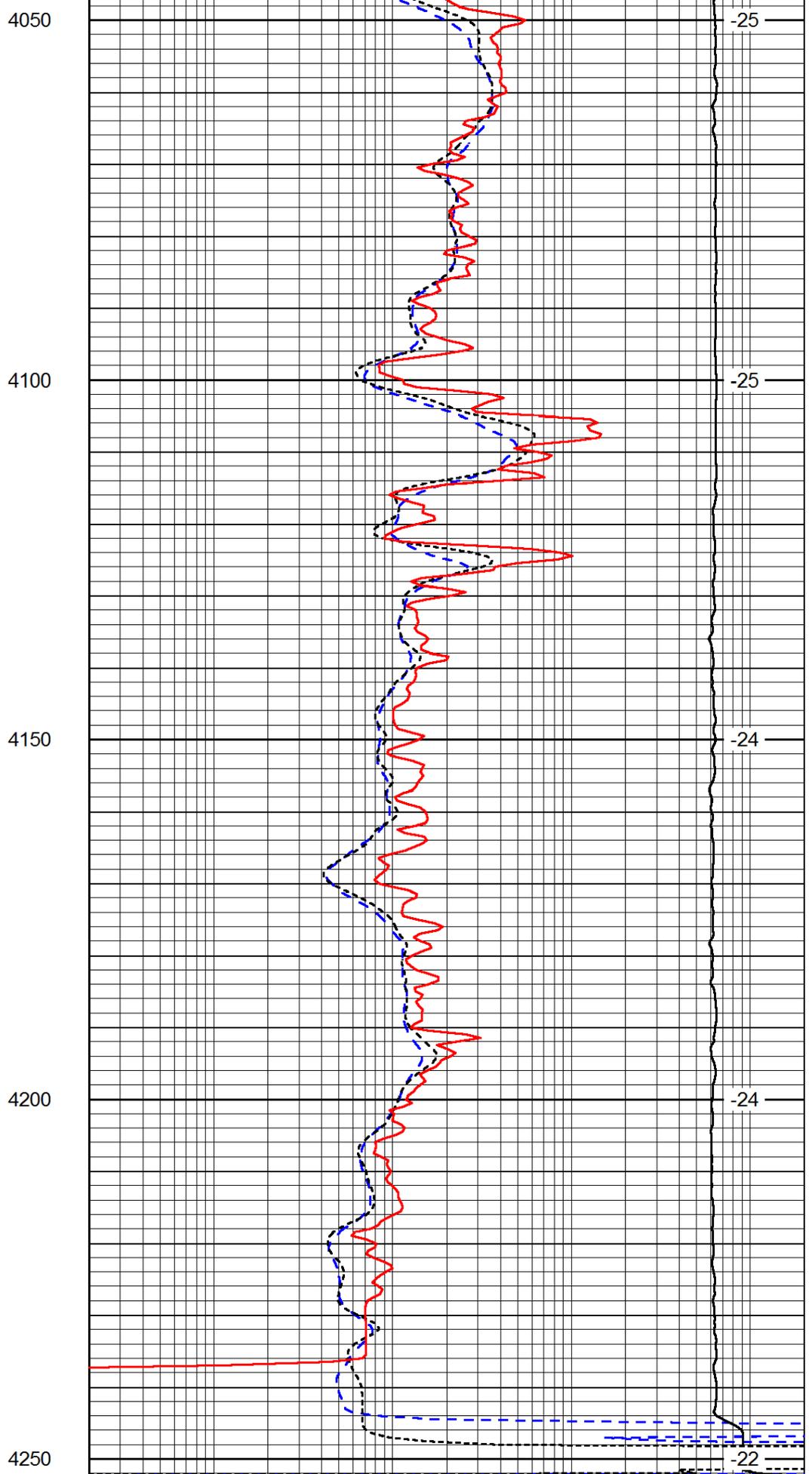
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-29

-25



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