



PIONEER

Pioneer Energy Services

Dual Induction Log

API No.

15-055-22,383-00-00

Company **American Warrior, Inc.**

Well **Six M #4-23**

Field **Unknown**

County **Finney** State

Kansas

Location **NW SE NW NW
903' FNL & 702' FWL**

Sec: **23** Twp: **22S** Rge: **34W**

Permanent Datum **Ground Level** Elevation **2930**
Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation

K.B. 2941
D.F. 2930
G.L. 2930

Other Services
CNL/CDL
MEL

Date **2/8/2015**

Run Number **One**

Depth Driller **4950**

Depth Logger **4952**

Bottom Logged Interval **4951**

Top Log Interval **1750**

Casing Driller **8.625 @ 1752**

Casing Logger **1752**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **3000**

Density / Viscosity **9.4 58**

pH / Fluid Loss **10.0 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.95 @ 62**

Rmf @ Meas. Temp **0.71 @ 62**

Rmc @ Meas. Temp **1.28 @ 62**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.47 @ 126**

Operating Rig Time **3 Hours**

Max Rec. Temp. F **126**

Equipment Number **15**

Location **Hays**

Recorded By **D.Kerr**

Witnessed By **Luke Thompson**

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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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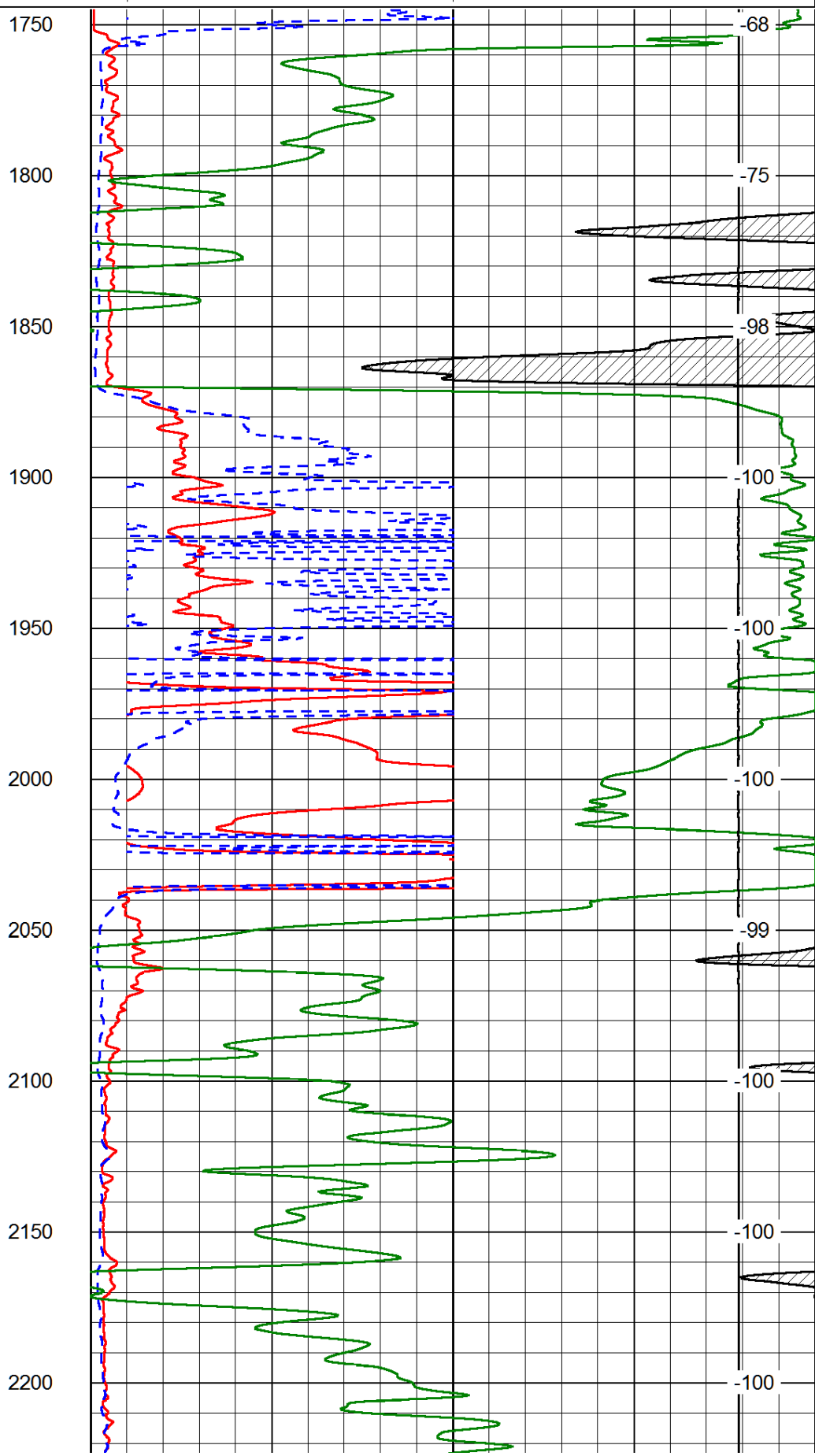
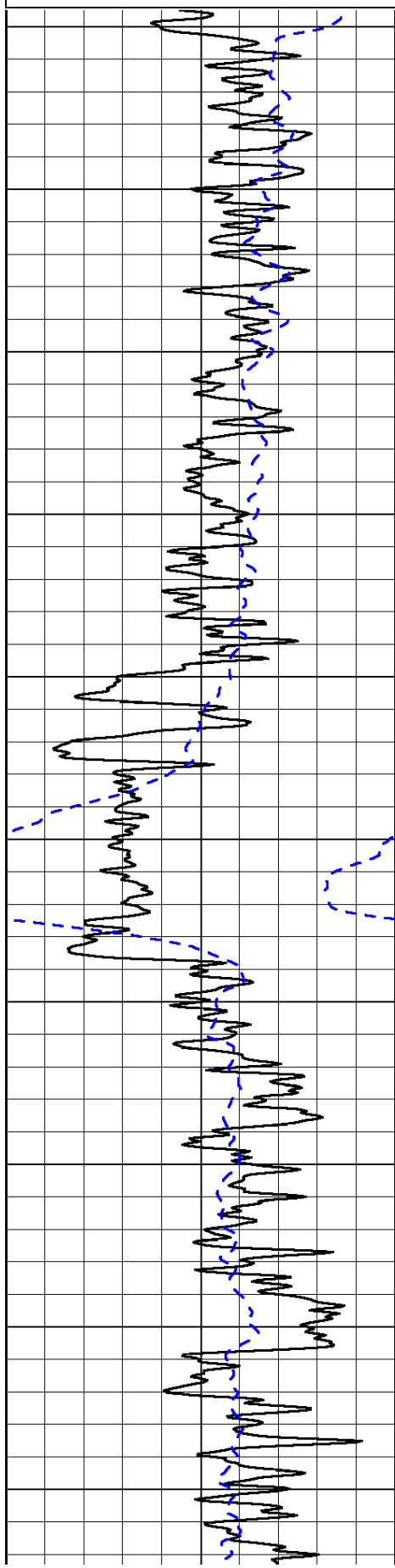
Holcomb KS, 9 North to Barlow RD,
1 3/4 West, South Into

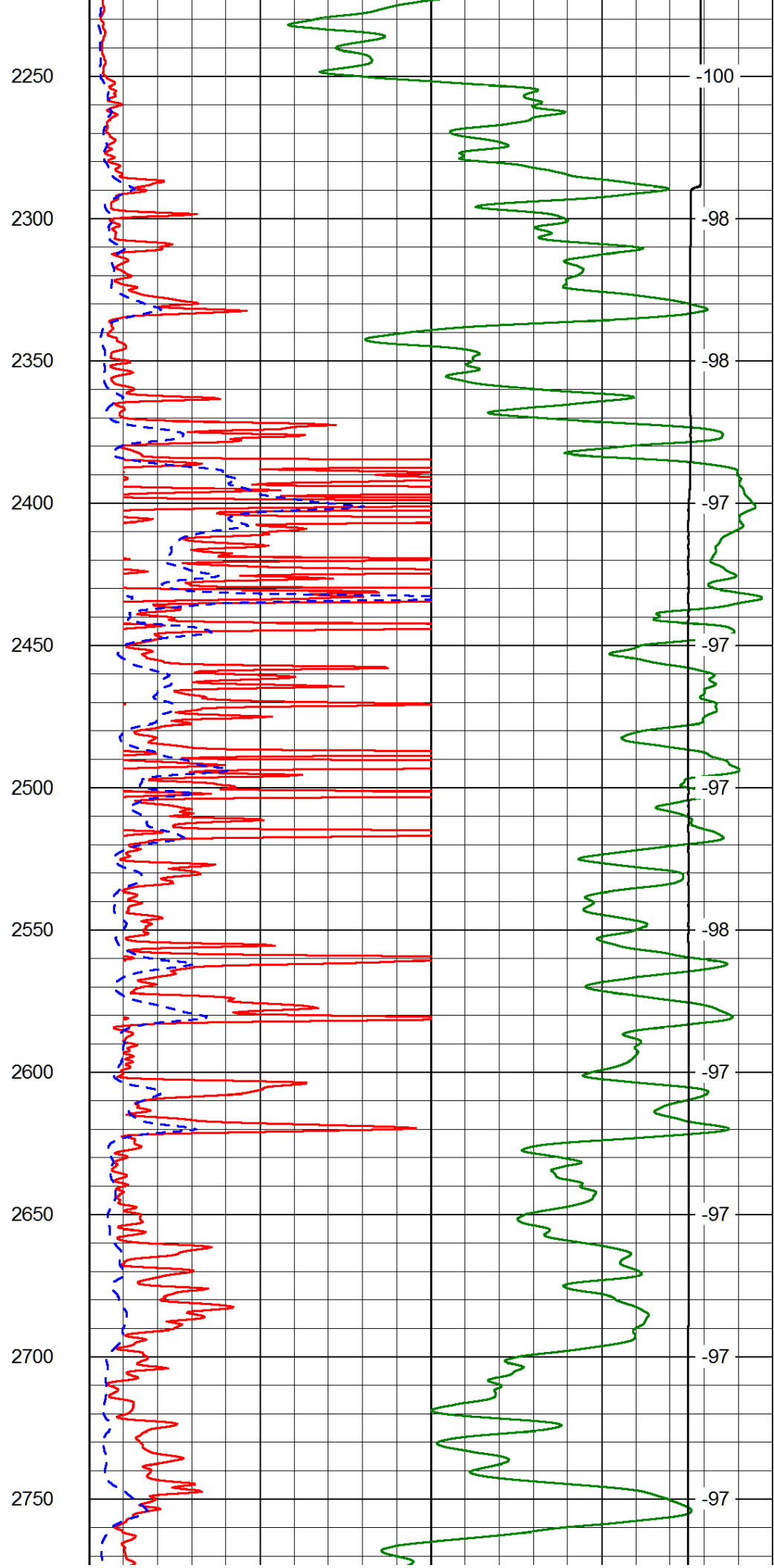
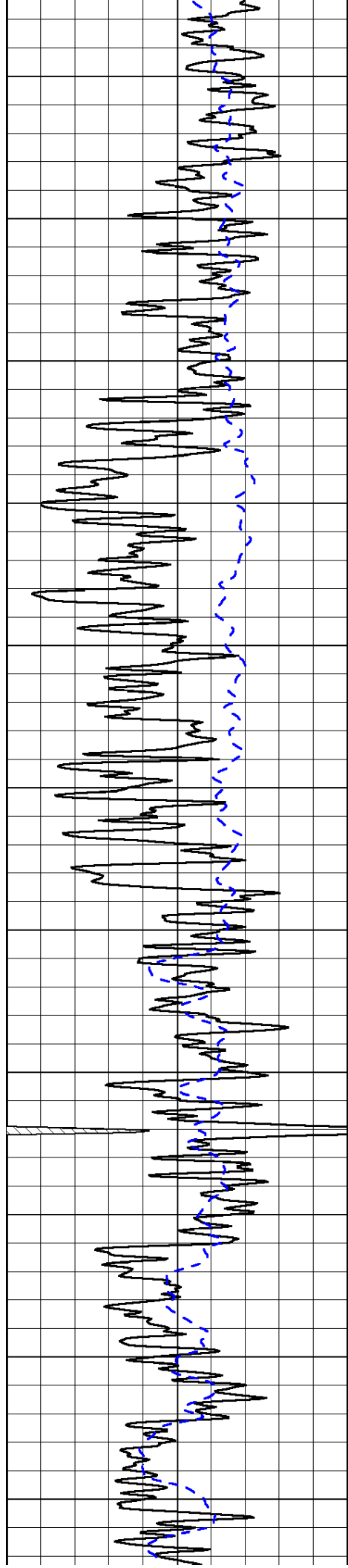
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Presentation Format: dil2in
Dataset Creation: Sun Feb 08 08:37:10 2015
Charted by: Depth in Feet scaled 1:600

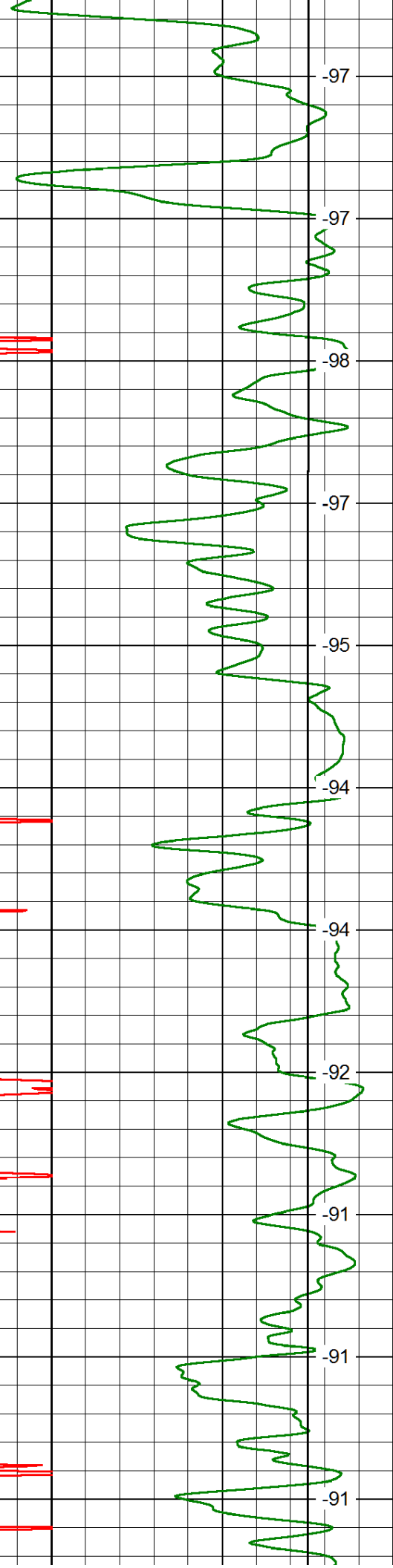
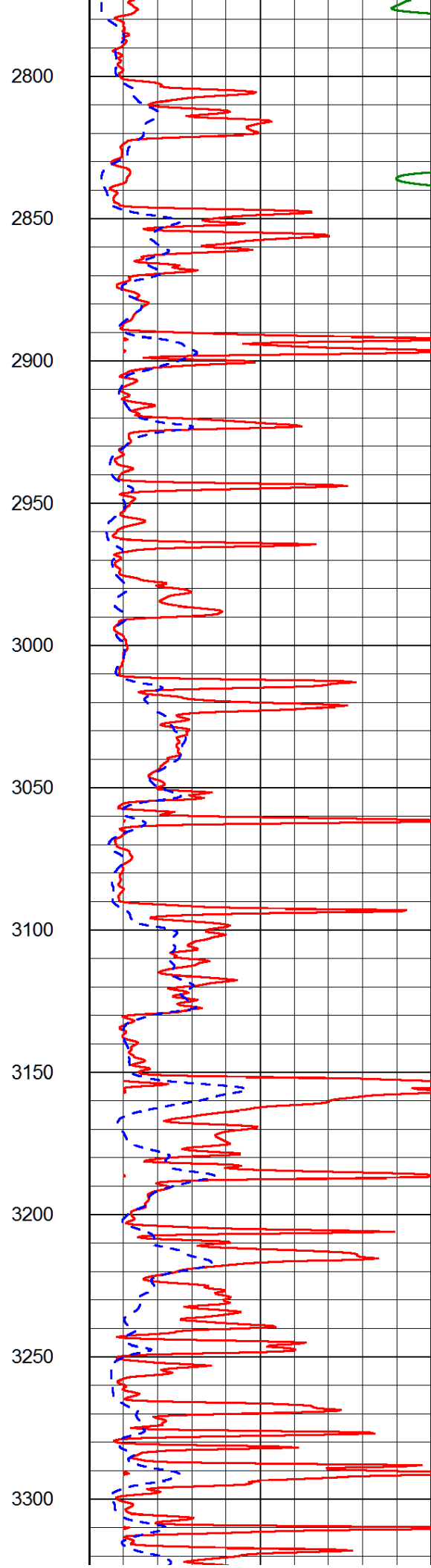
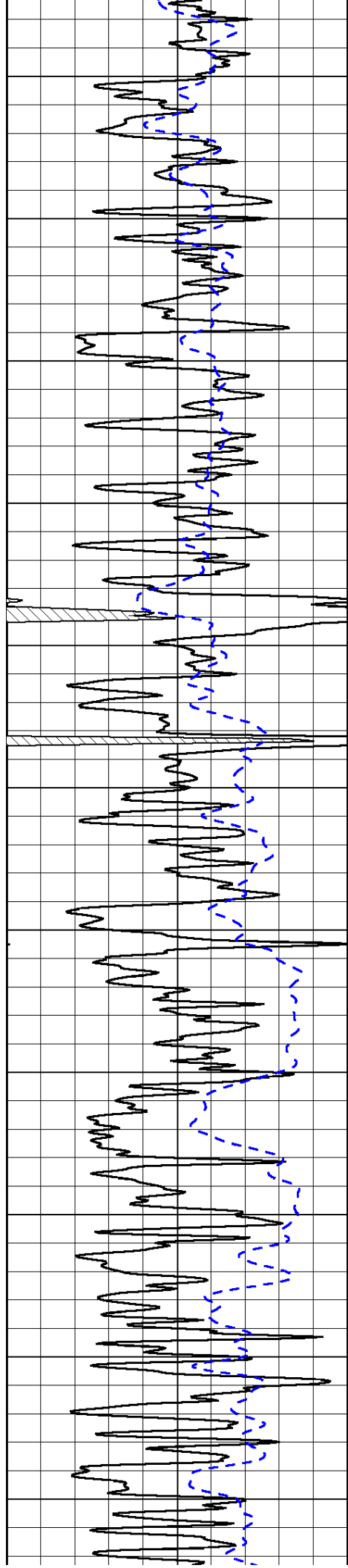
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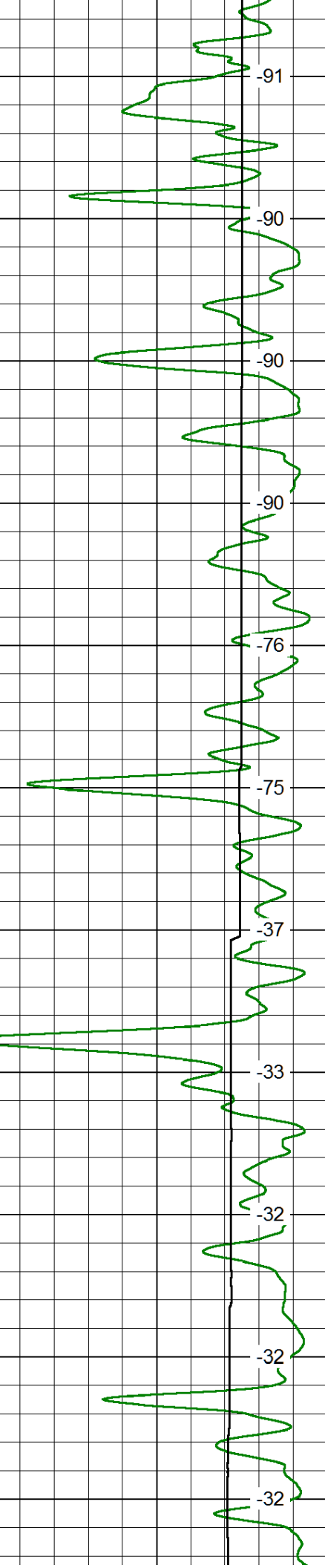
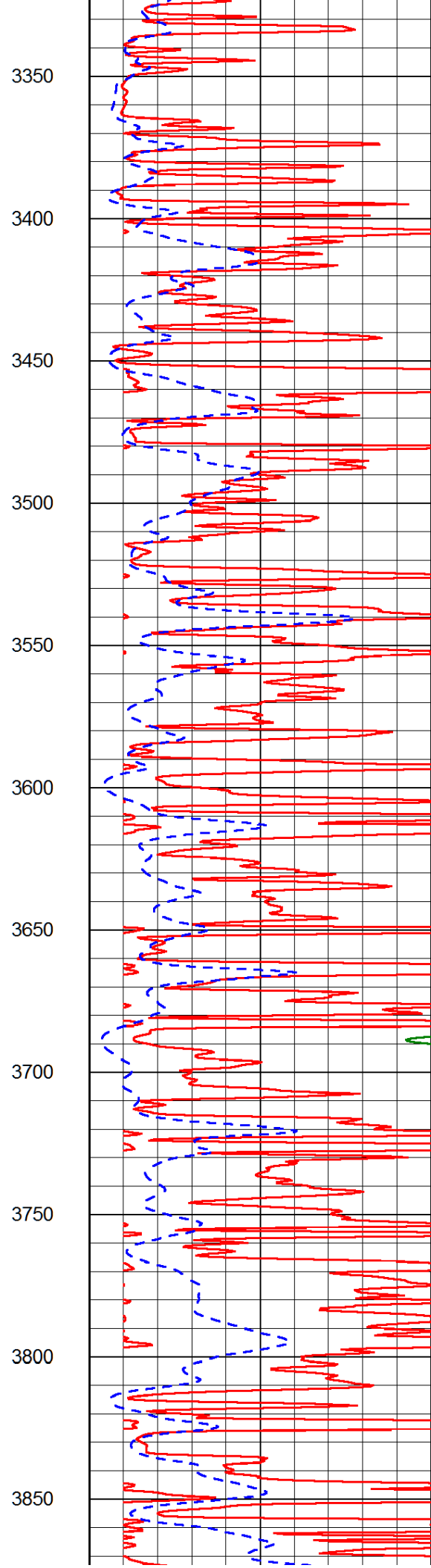
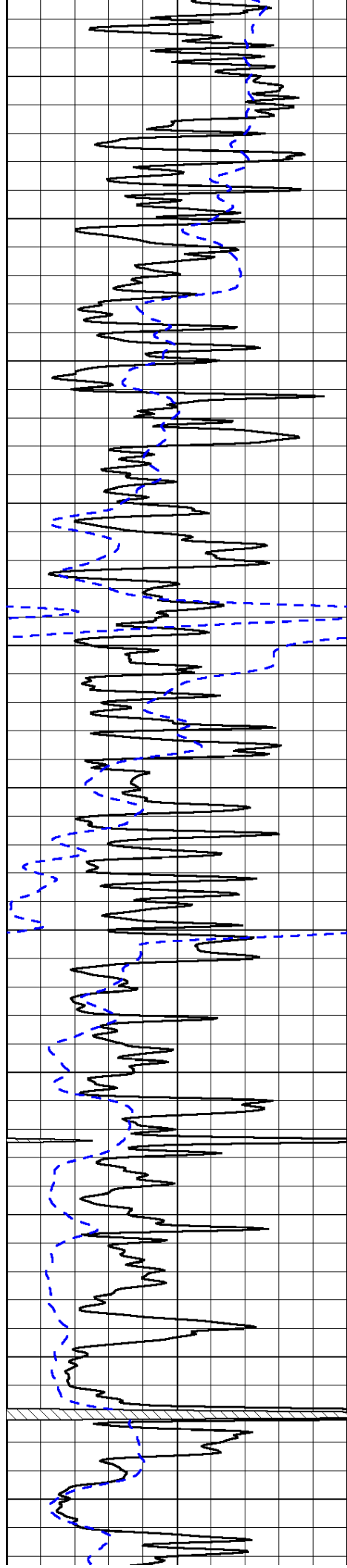
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

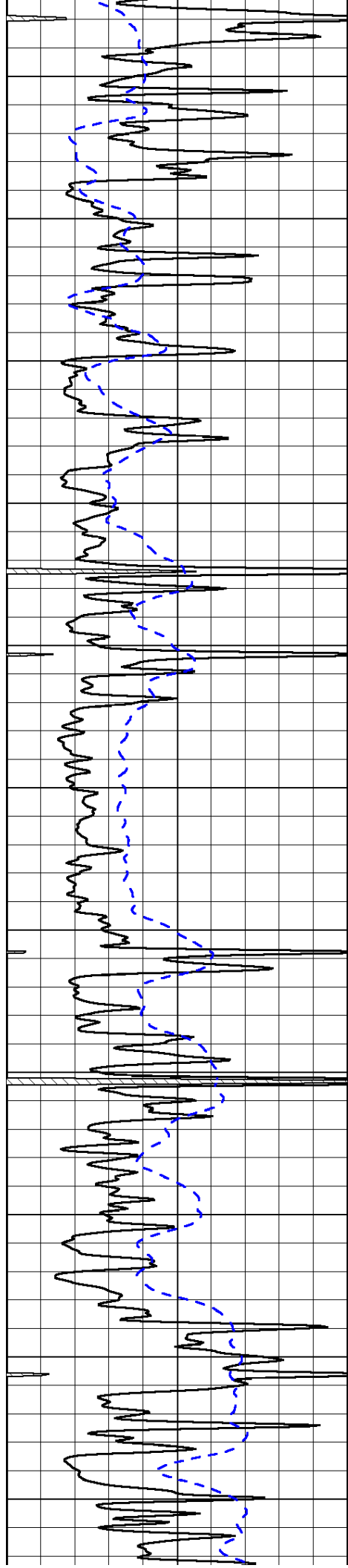
LSPD











3900

3950

4000

4050

4100

4150

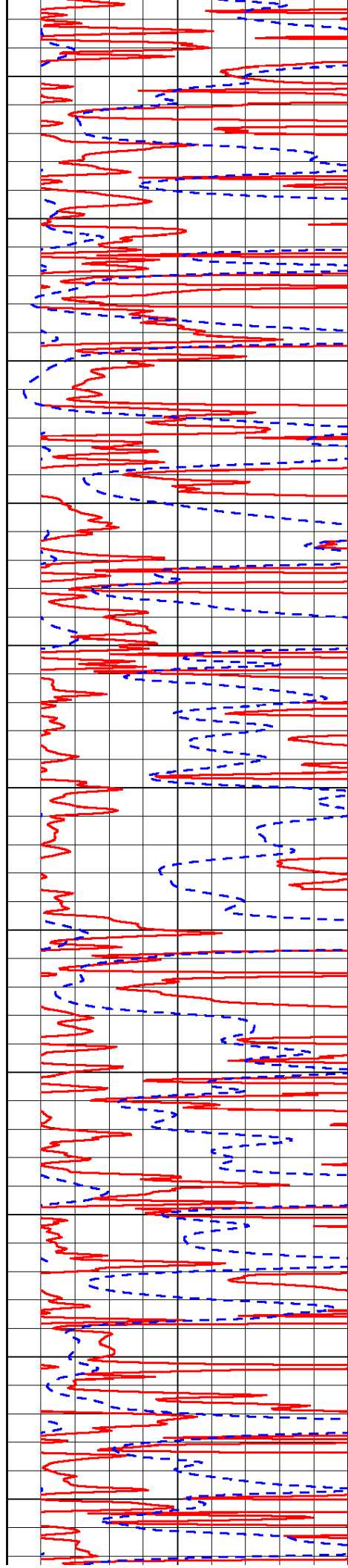
4200

4250

4300

4350

4400



-32

-32

-32

-33

-32

-32

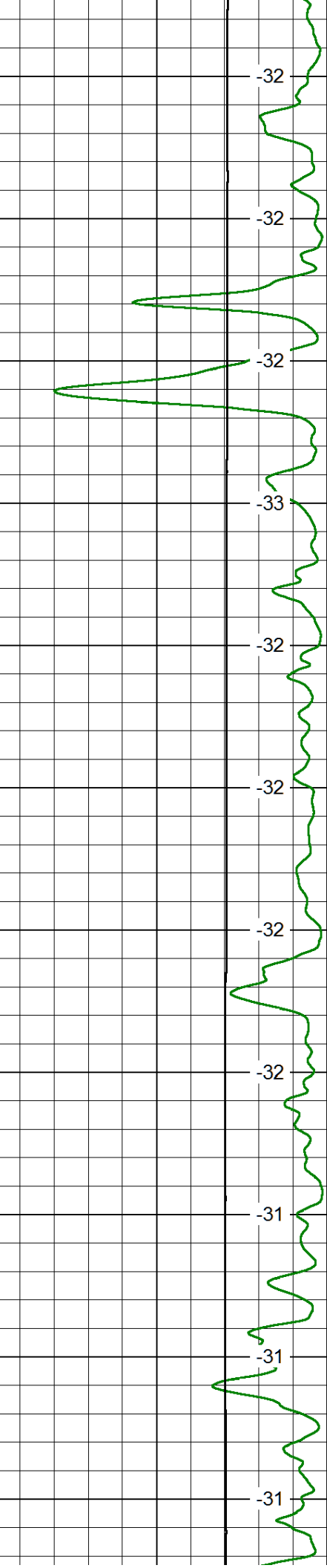
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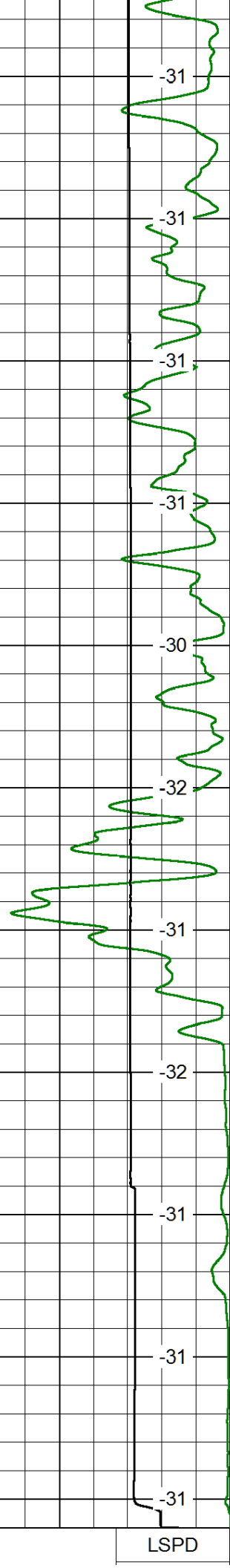
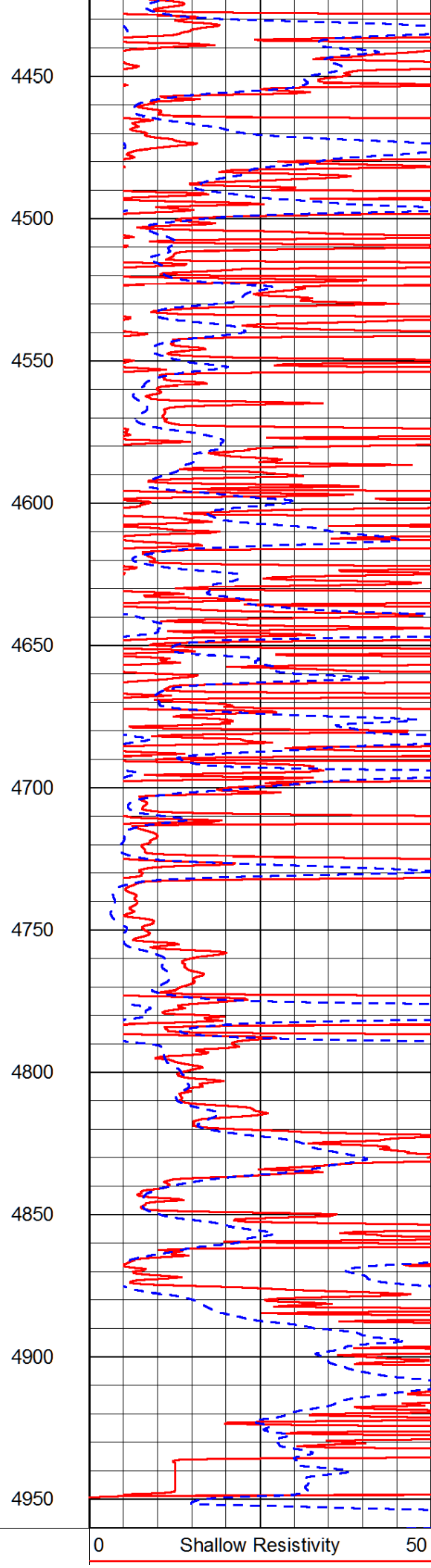
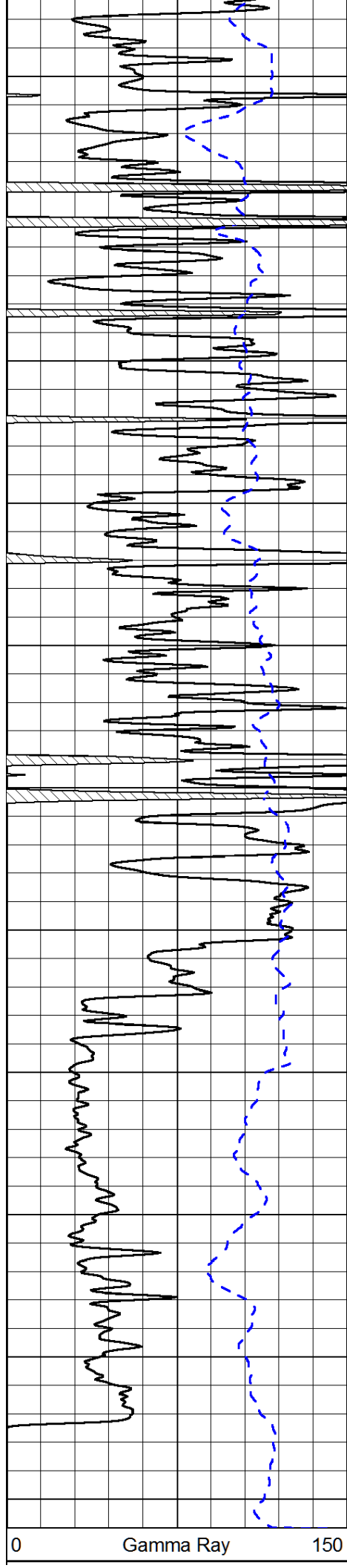
-32

-31

-31

-31

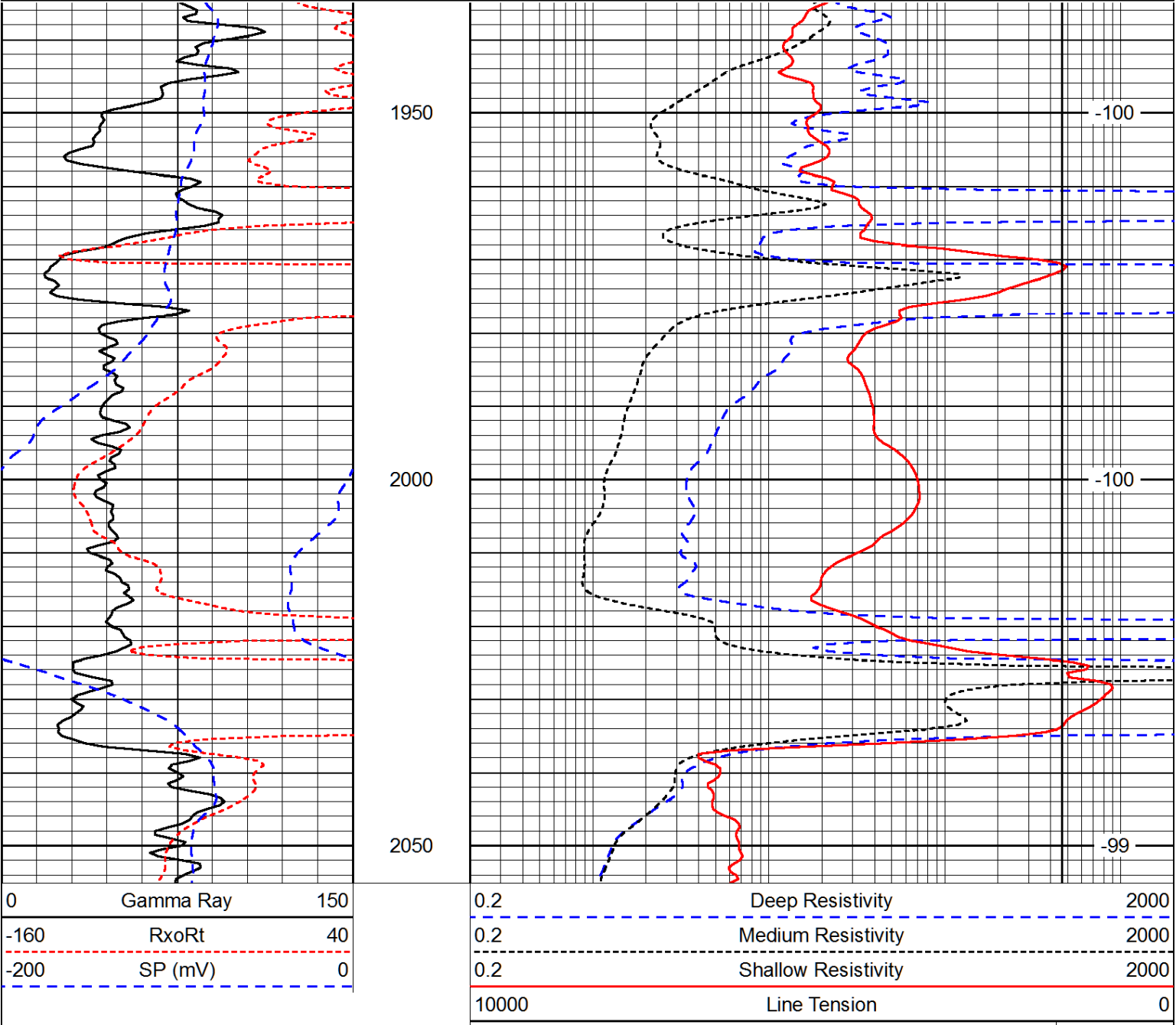




-200	SP (mV)	0
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File:	amwarrior_sixm_4_23hd.db
Dataset Pathname:	DIL/awstkml
Presentation Format:	dil
Dataset Creation:	Sun Feb 08 08:37:10 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

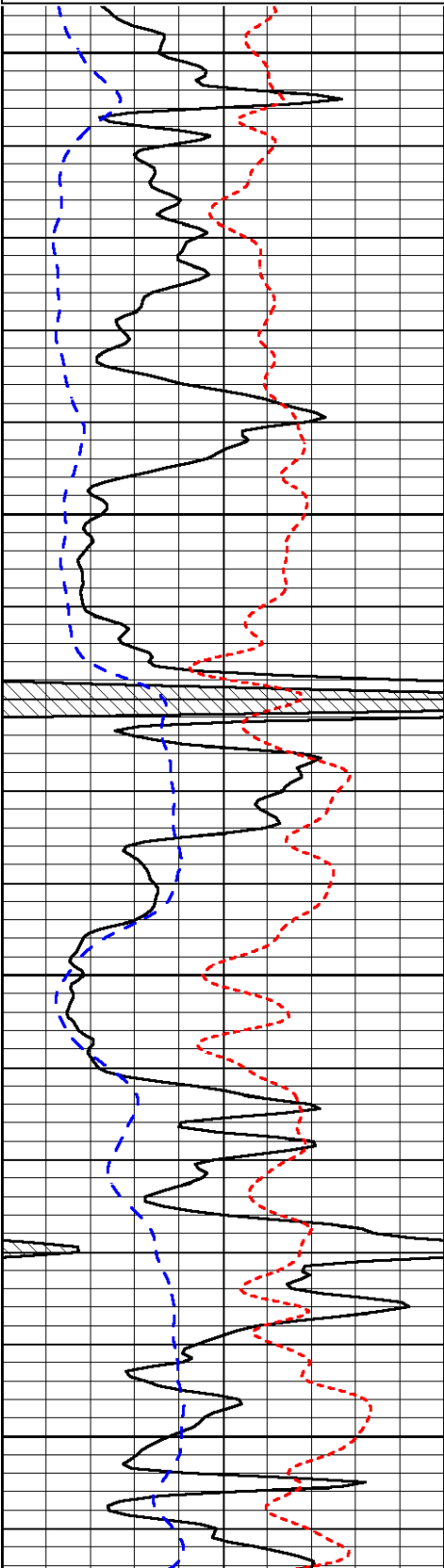


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0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

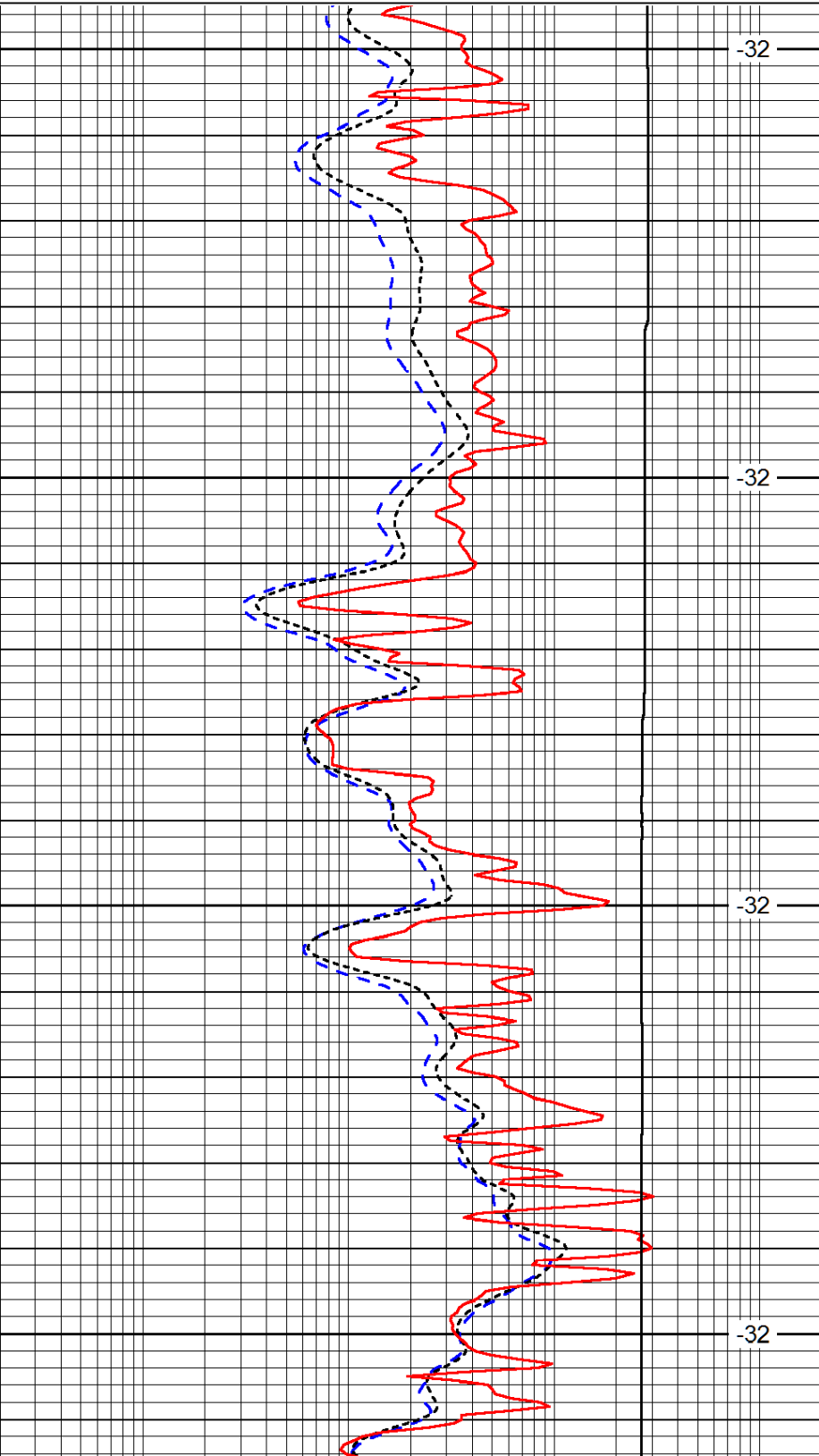


3750

3800

3850

3900

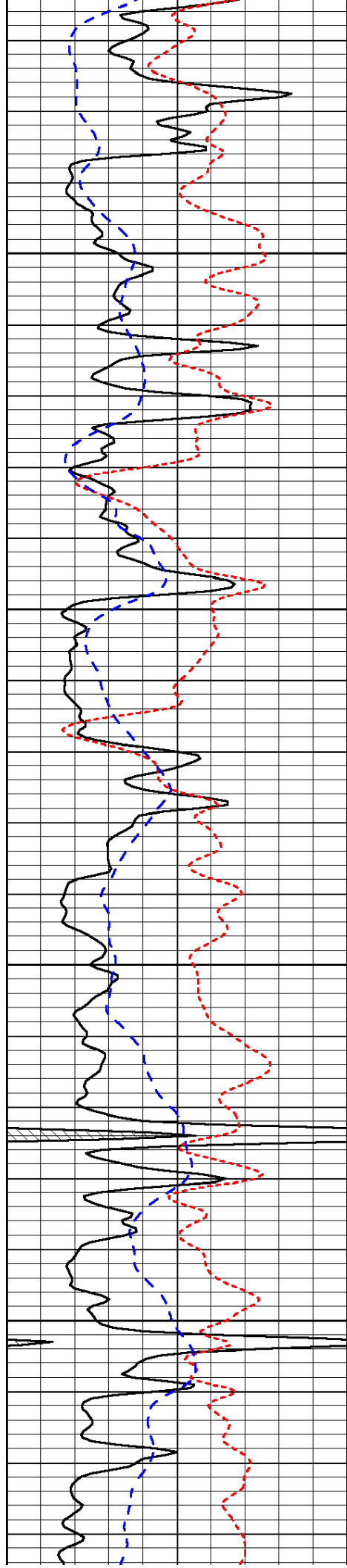


-32

-32

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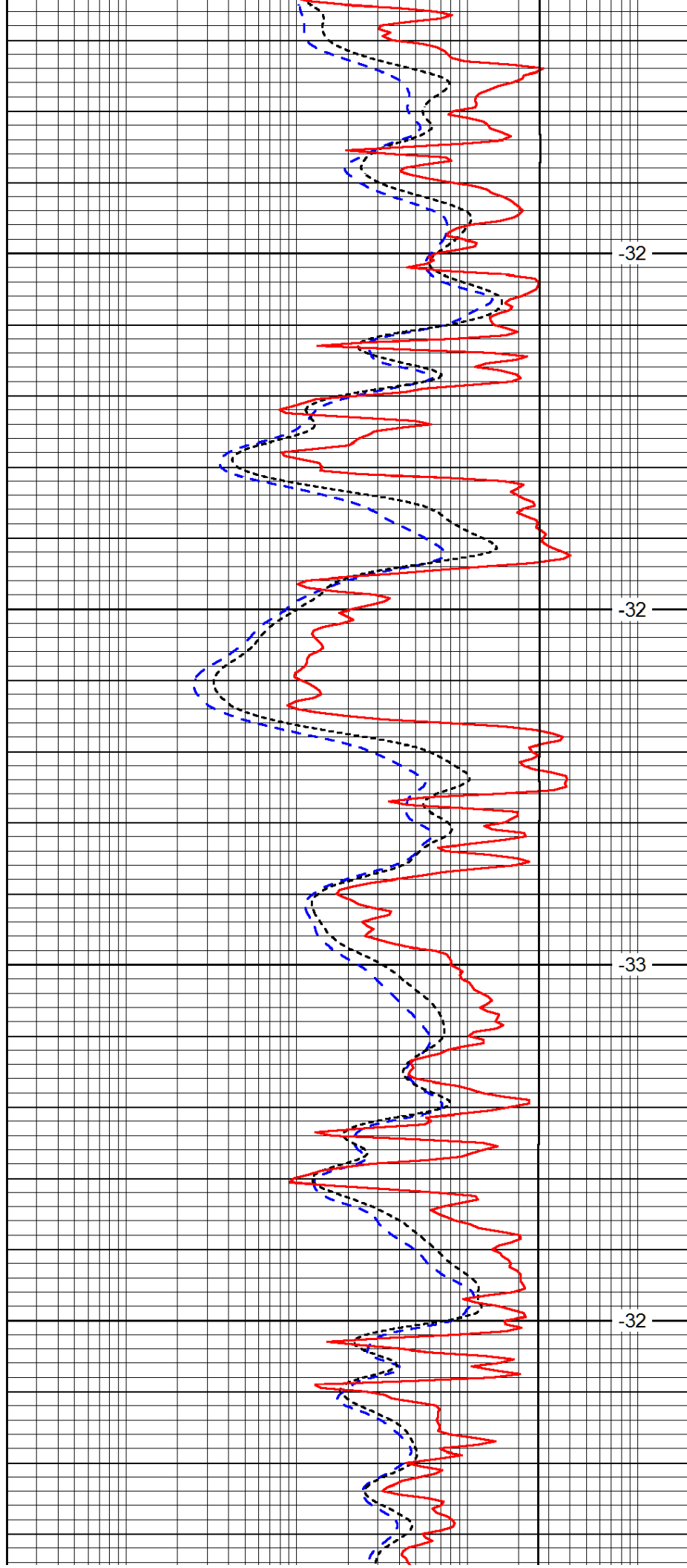


3950

4000

4050

4100

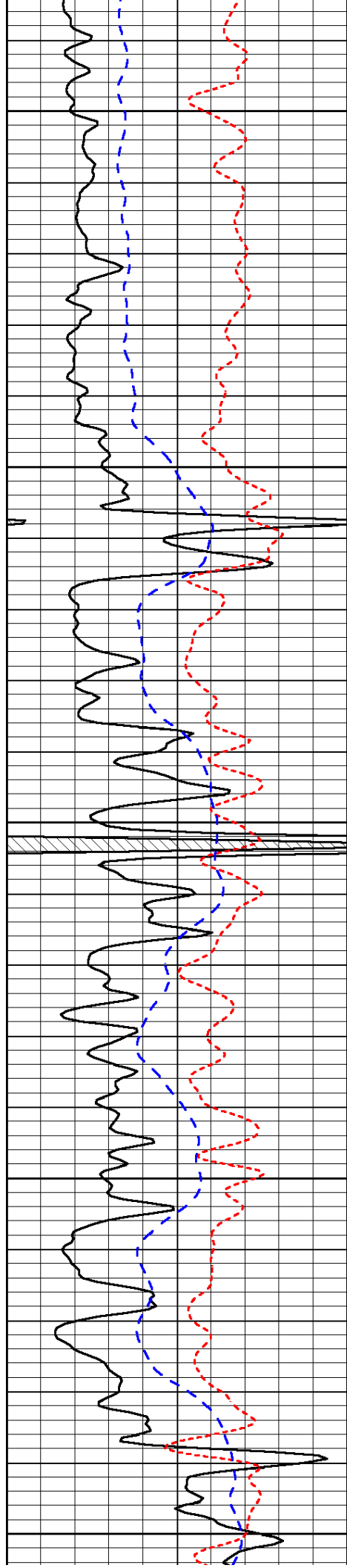


-32

-32

-33

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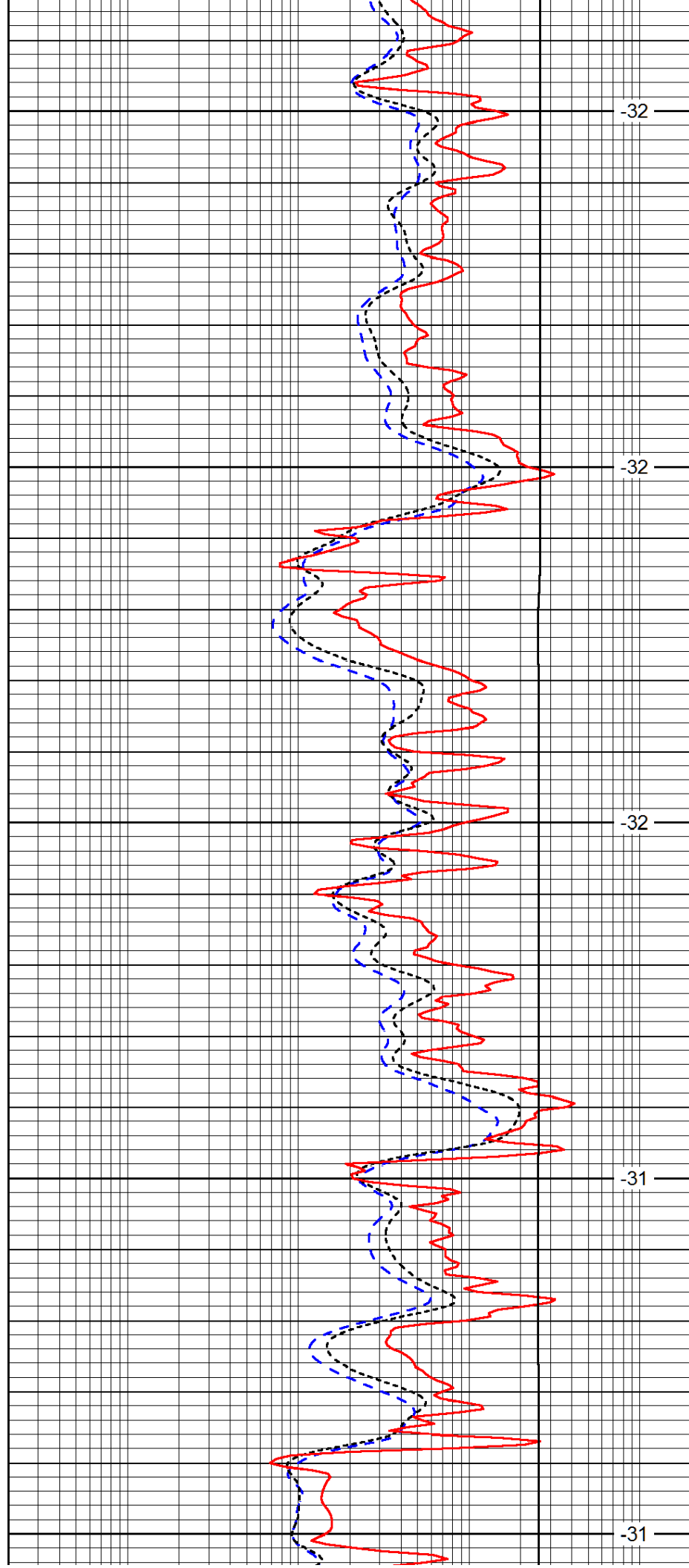
4150

4200

4250

4300

4350



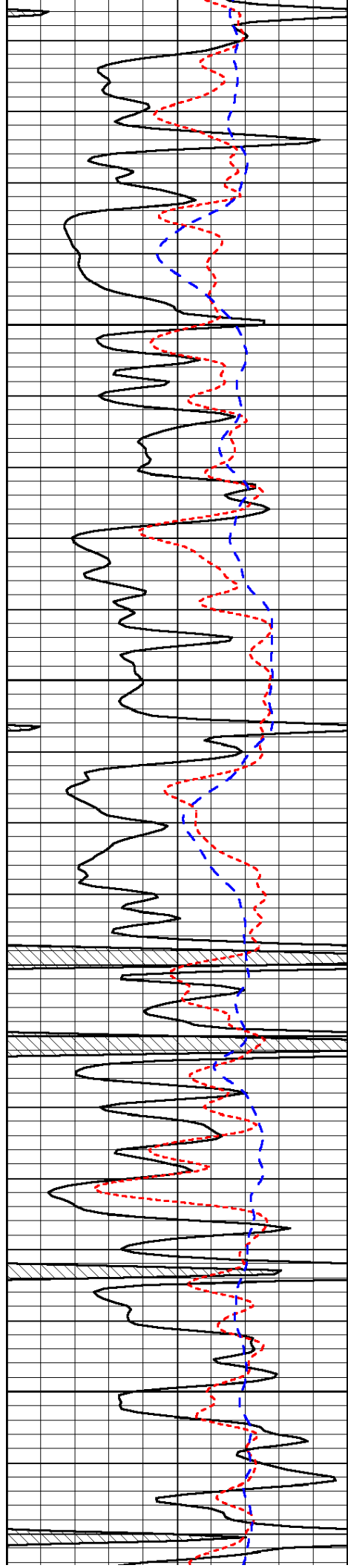
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-32

-32

-31

-31

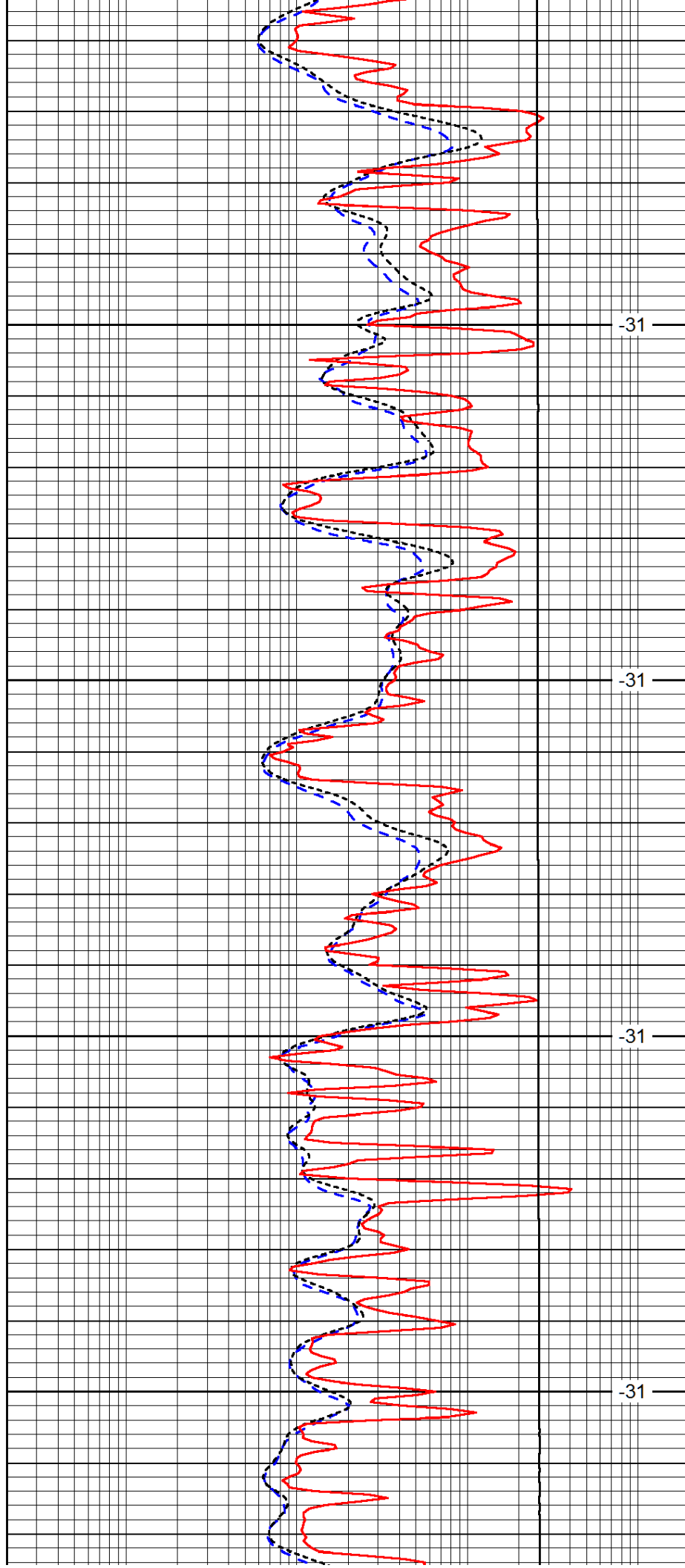


4400

4450

4500

4550

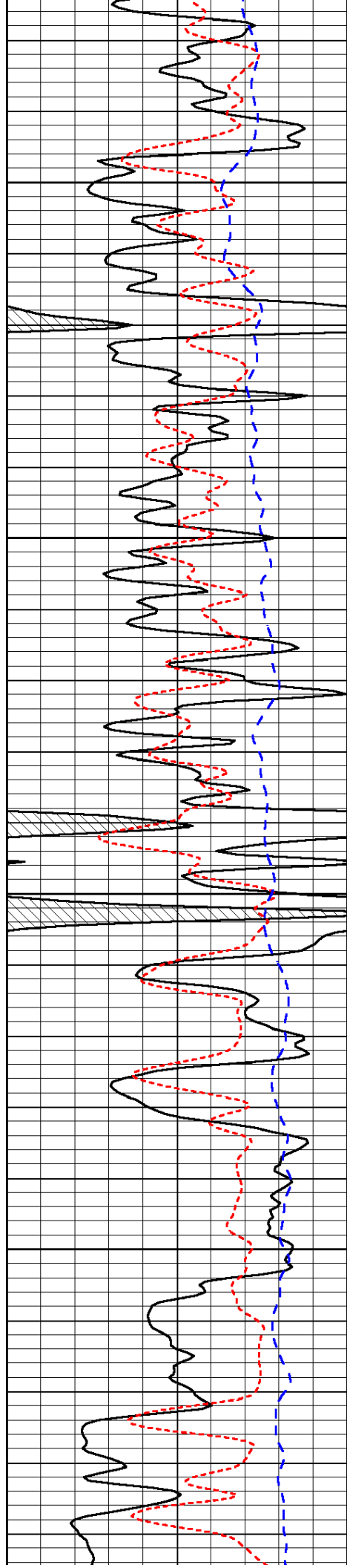


-31

-31

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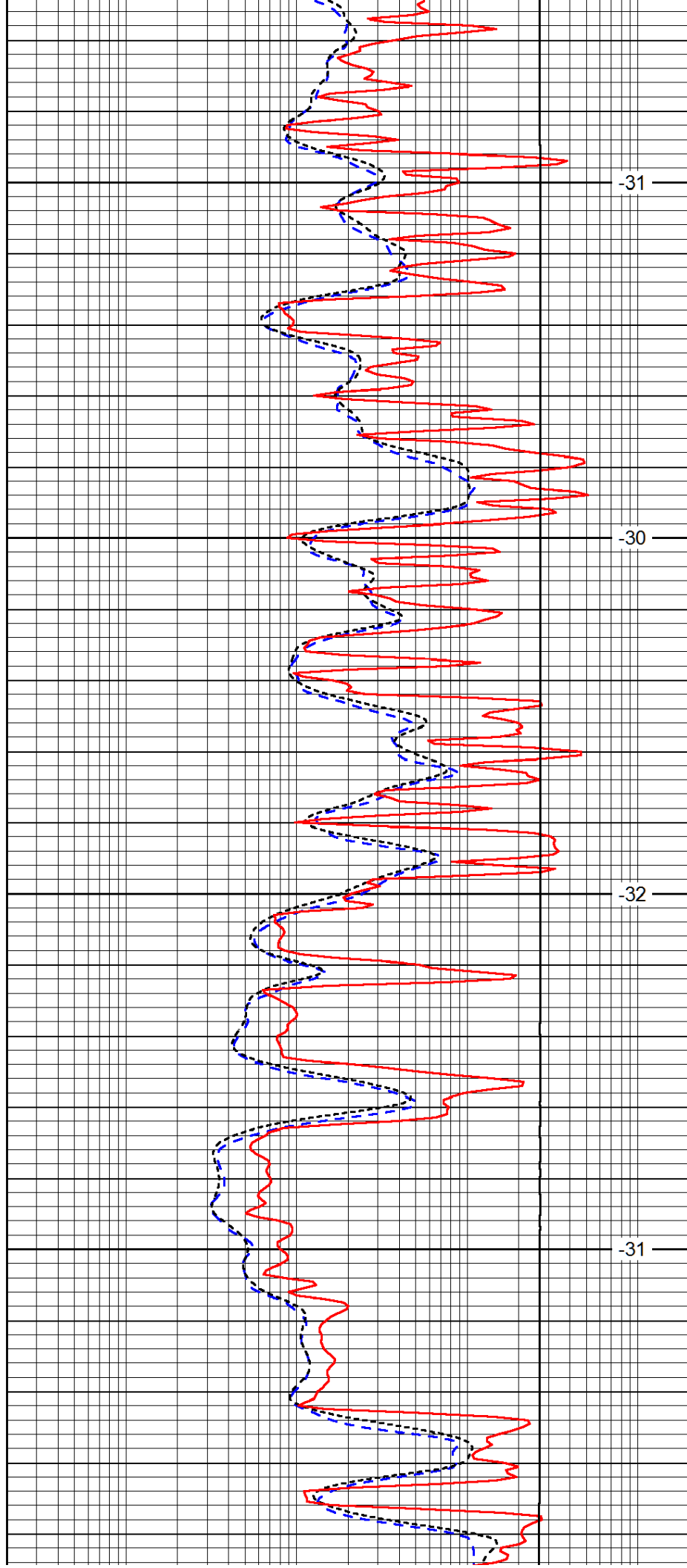


4600

4650

4700

4750

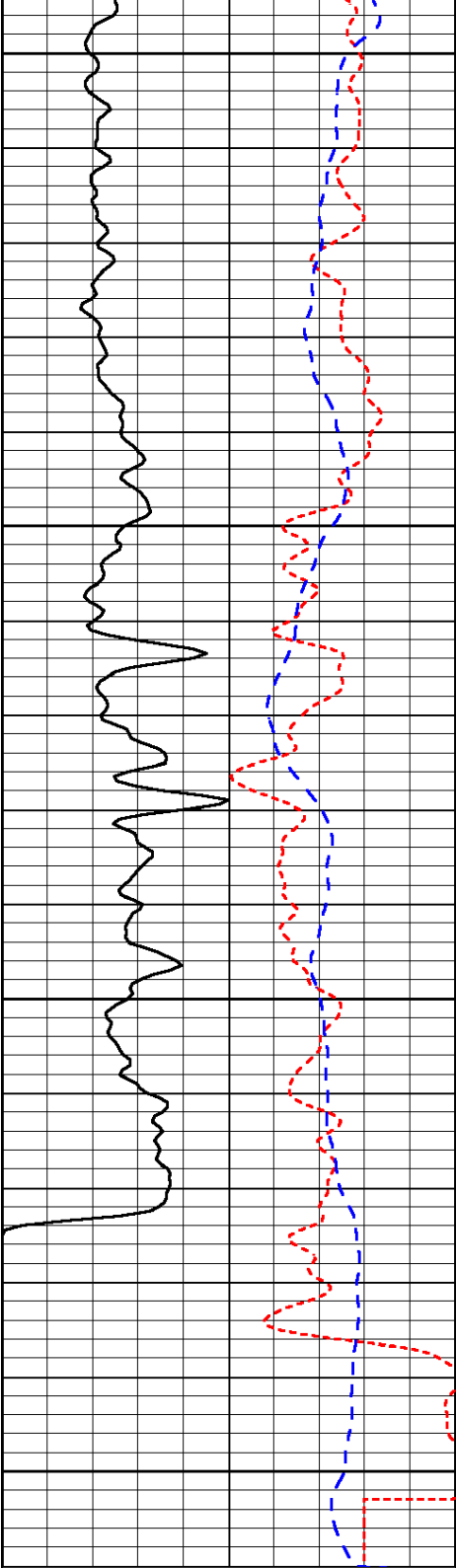


-31

-30

-32

-31



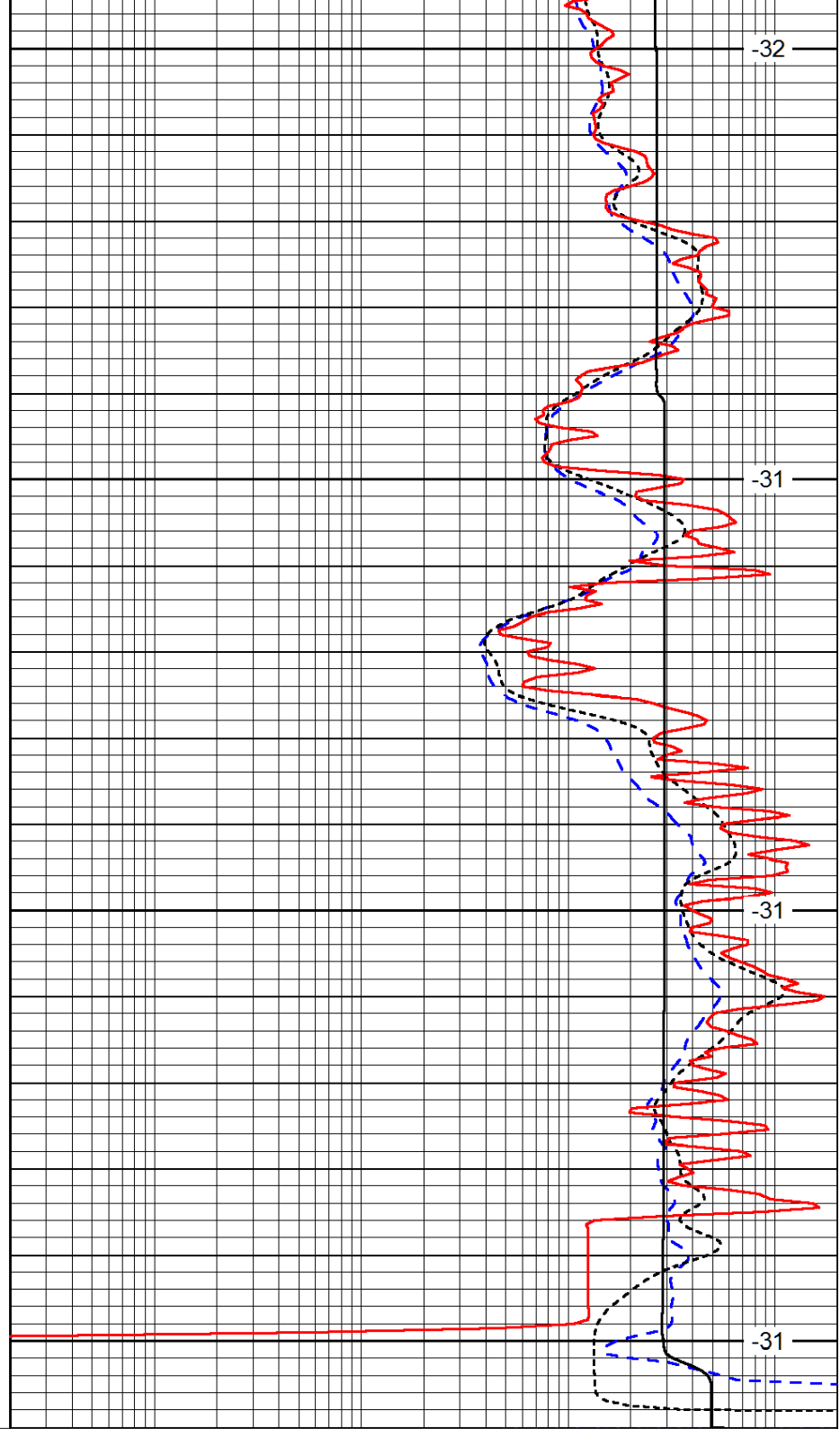
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-160	RxoRt	40
-200	SP (mV)	0

4800

4850

4900

4950



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD