



Pioneer Energy Services

Dual Induction Log

API No.

15-069-20,478-00-00

Company American Warrior, Inc.

Well Katherine No. 2-19

Field

County Gray

State

Kansas

Location

1802' FNL & 640' FWL

Other Services
CNL/CDL
MEL/BHCS

Sec: 19

Twp: 24S

Rge: 30W

Elevation

Permanent Datum Ground Level Elevation 2880

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

K.B. 2891
D.F.
G.L. 2880

Drilling Measured From

Kelly Bushing

11 Ft. Above Perm. Datum

K.B. 2891
D.F.
G.L. 2880

Date

8/12/14

Run Number

One

Depth Driller

5150

Depth Logger

5152

Bottom Logged Interval

5151

Top Log Interval

1700

Casing Driller

8.625 @ 1702

Casing Logger

1702

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4.700

Density / Viscosity

9.3 52

pH / Fluid Loss

11.0 9.2

Source of Sample

Flowline

Rm @ Meas. Temp

.50 @ 82

Rmf @ Meas. Temp

.38 @ 82

Rmc @ Meas. Temp

.68 @ 82

Source of Rmf / Rmc

Charts

Rm @ BHT

.32 @ 128

Operating Rig Time

5 Hours

Max Rec. Temp. F

128

Equipment Number

91

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Kevin Timson

<<< 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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(785) 625-3858

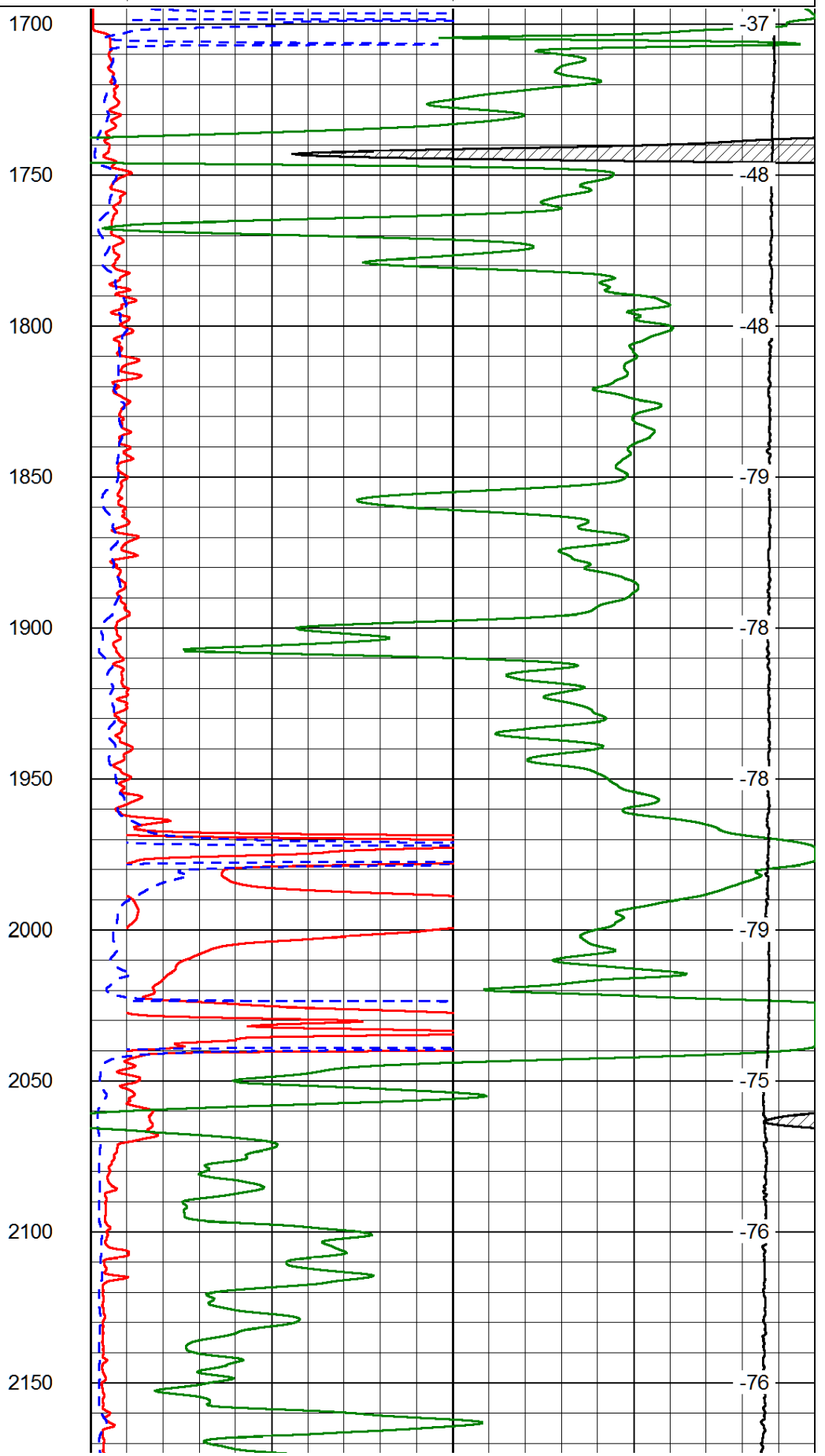
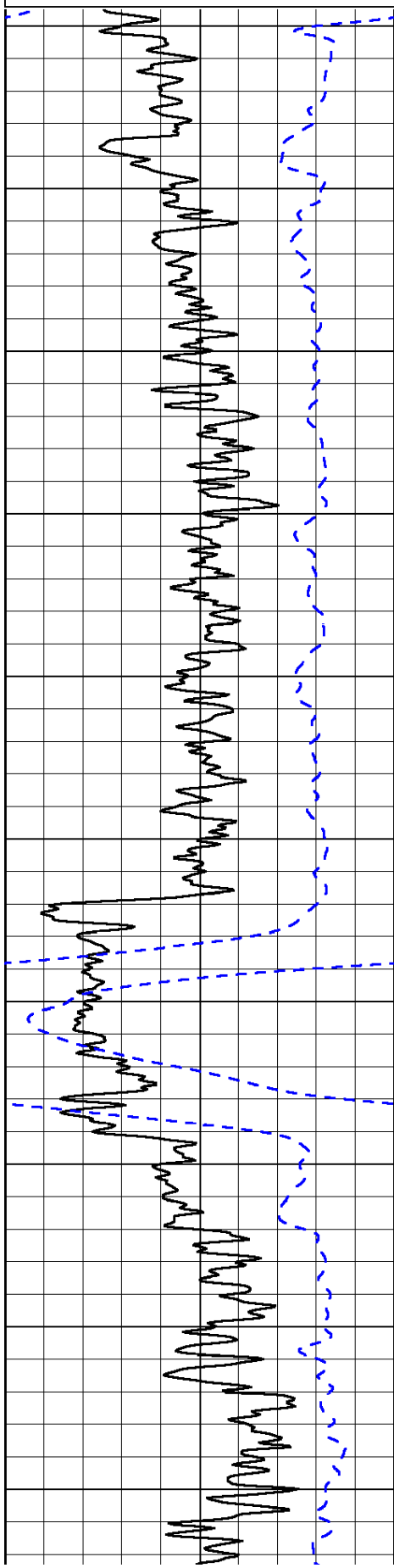
Kalvesta Kansas
West to Havlitch Rd, South to D Rd, West to Mennonite Rd, 3/4 S, East Into

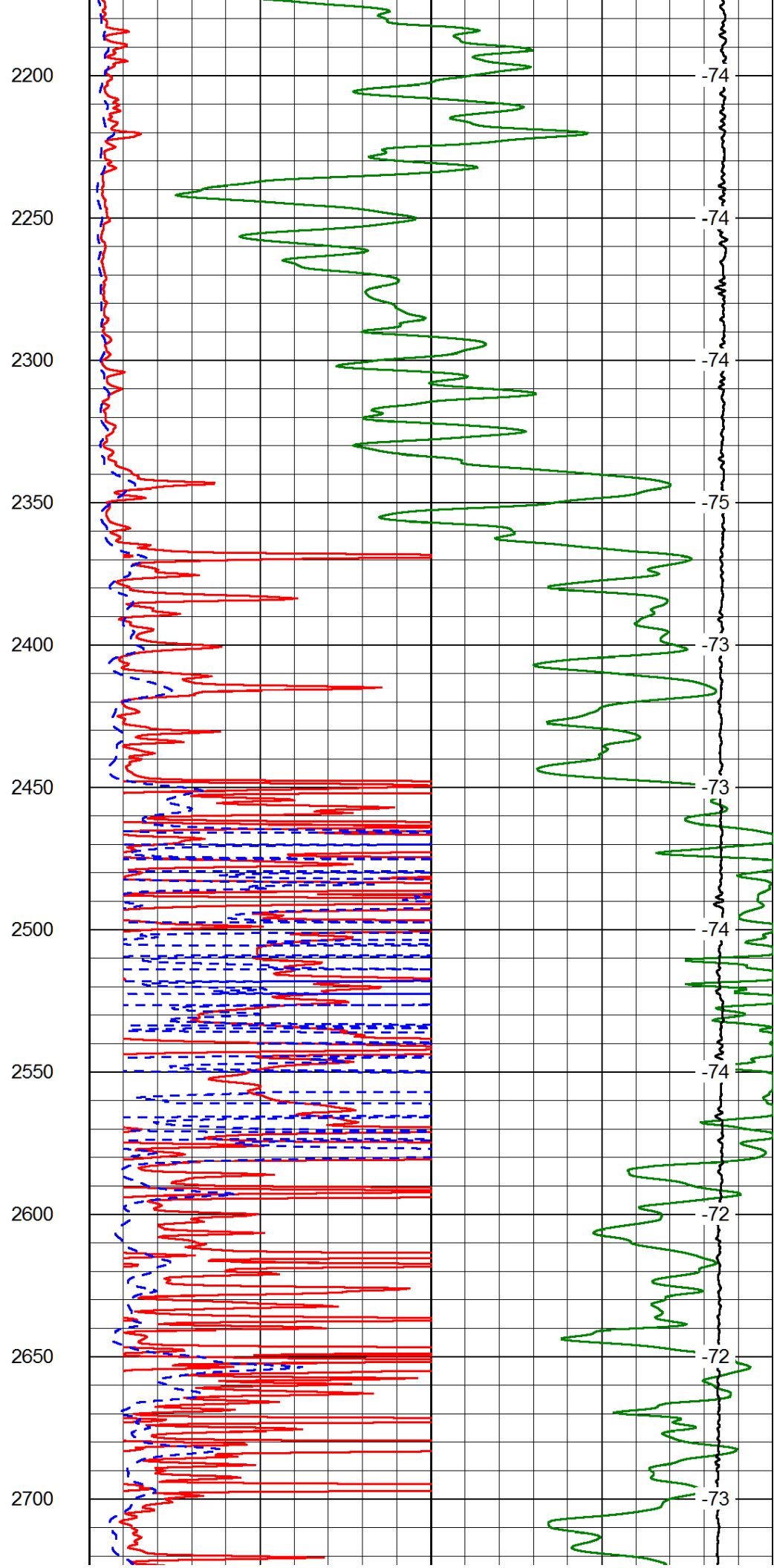
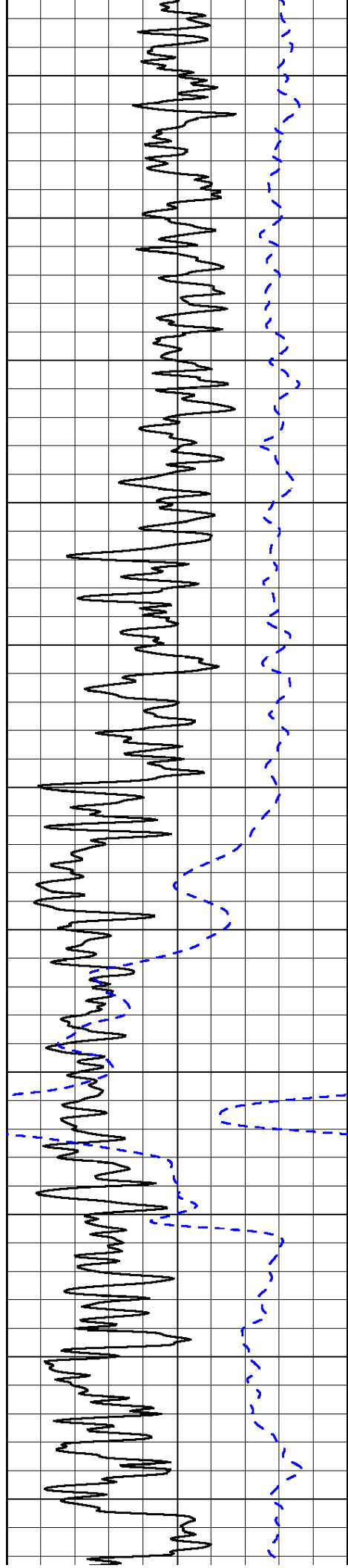
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Presentation Format: dil2in
Dataset Creation: Tue Aug 12 21:33:21 2014
Charted by: Depth in Feet scaled 1:600

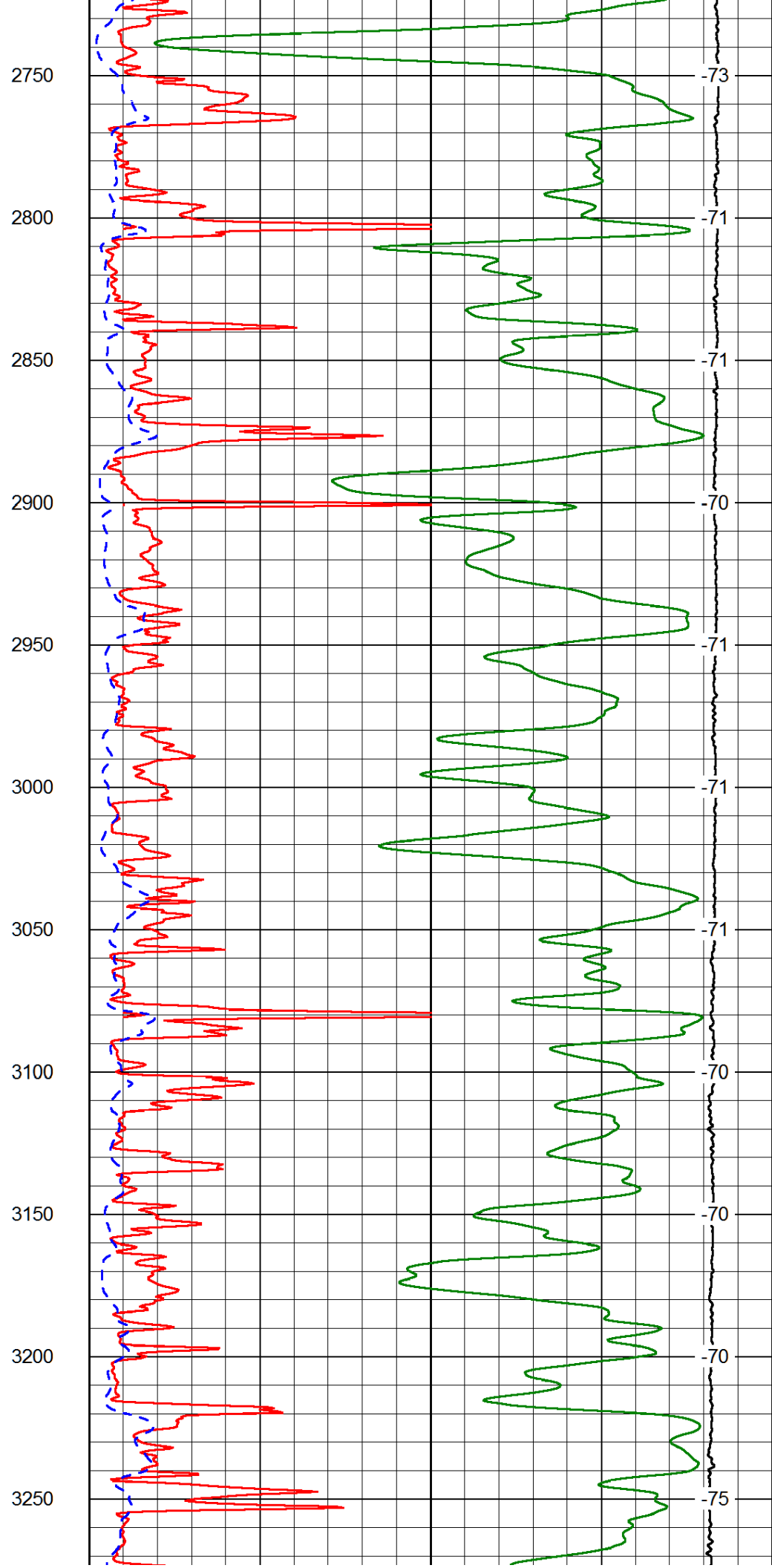
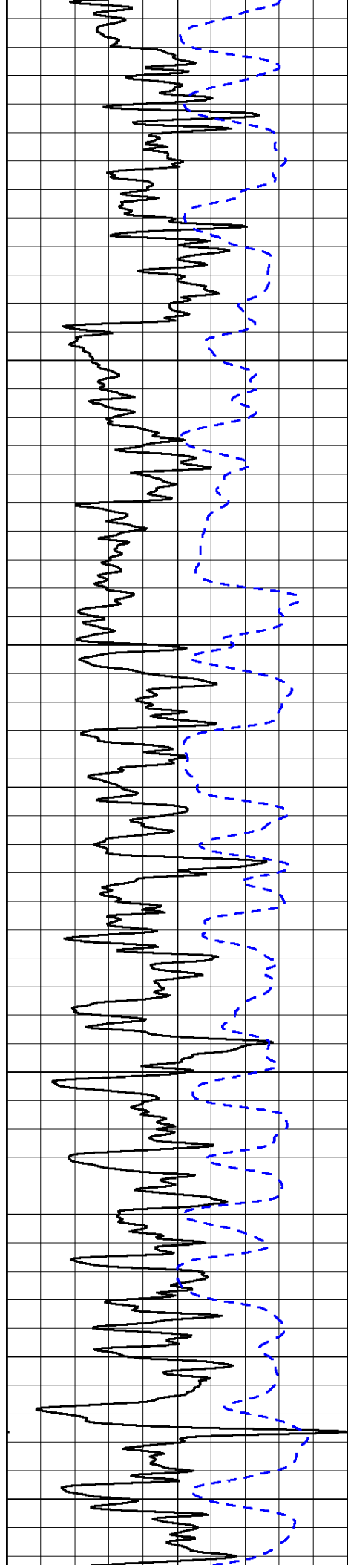
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-200	SP (mV)	0

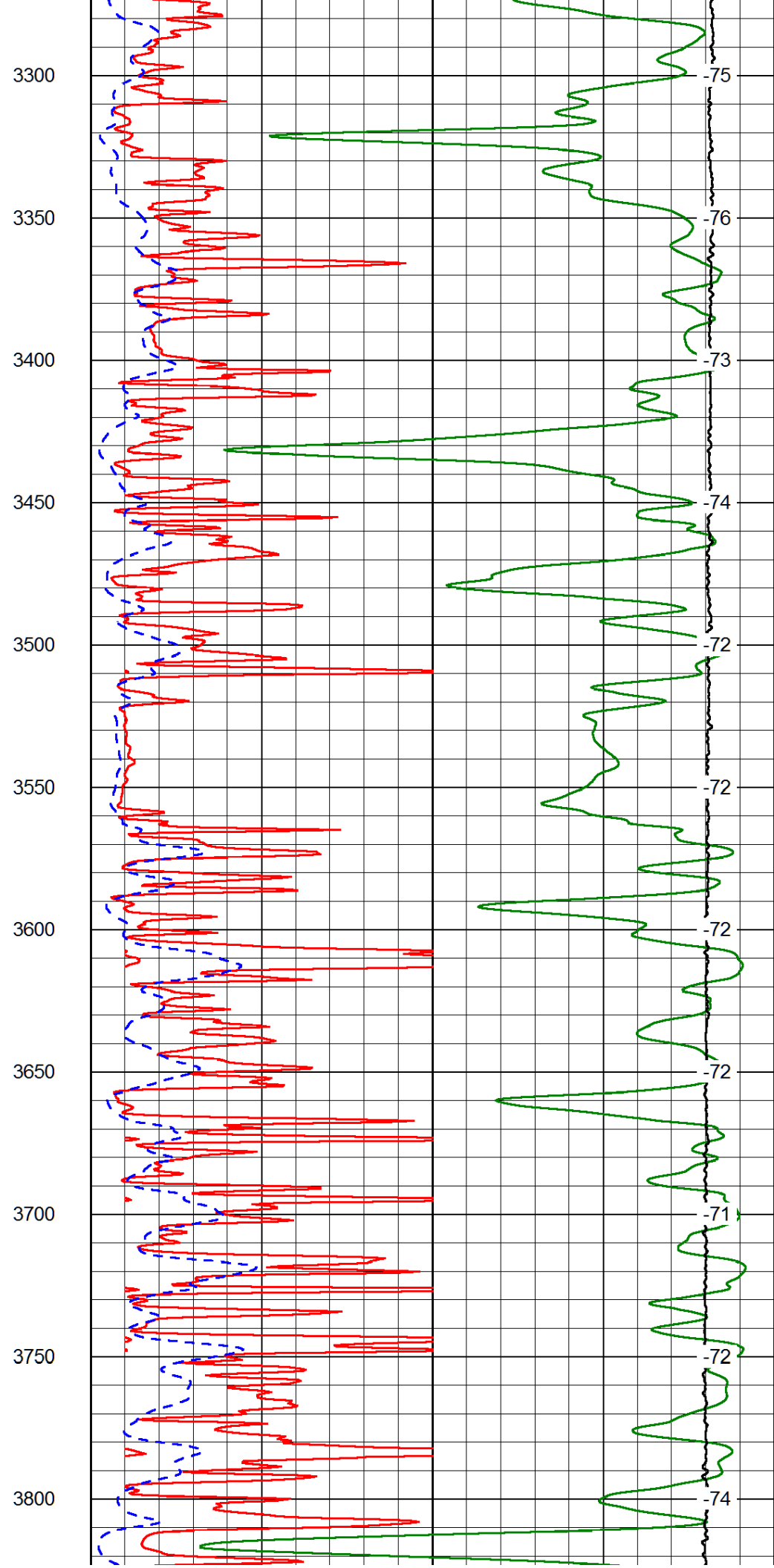
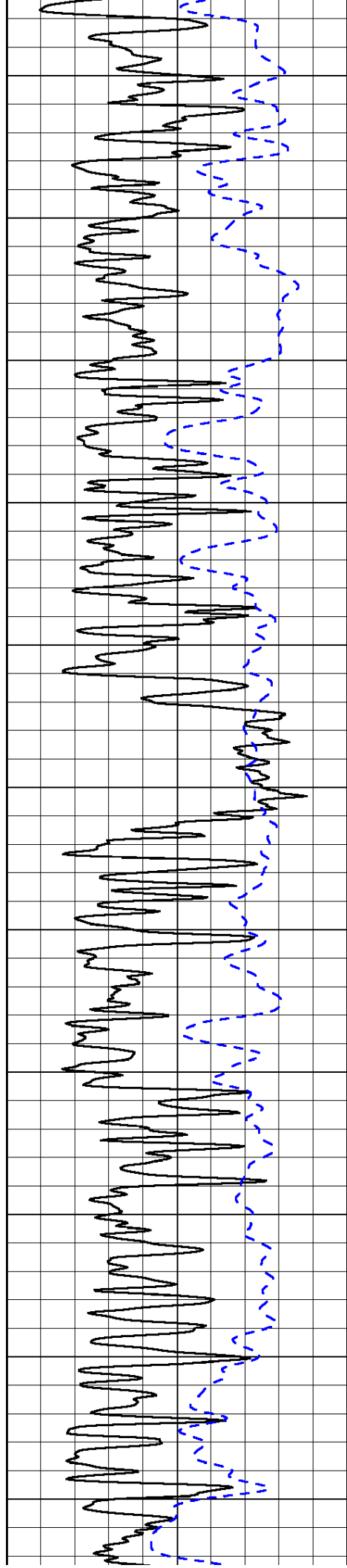
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

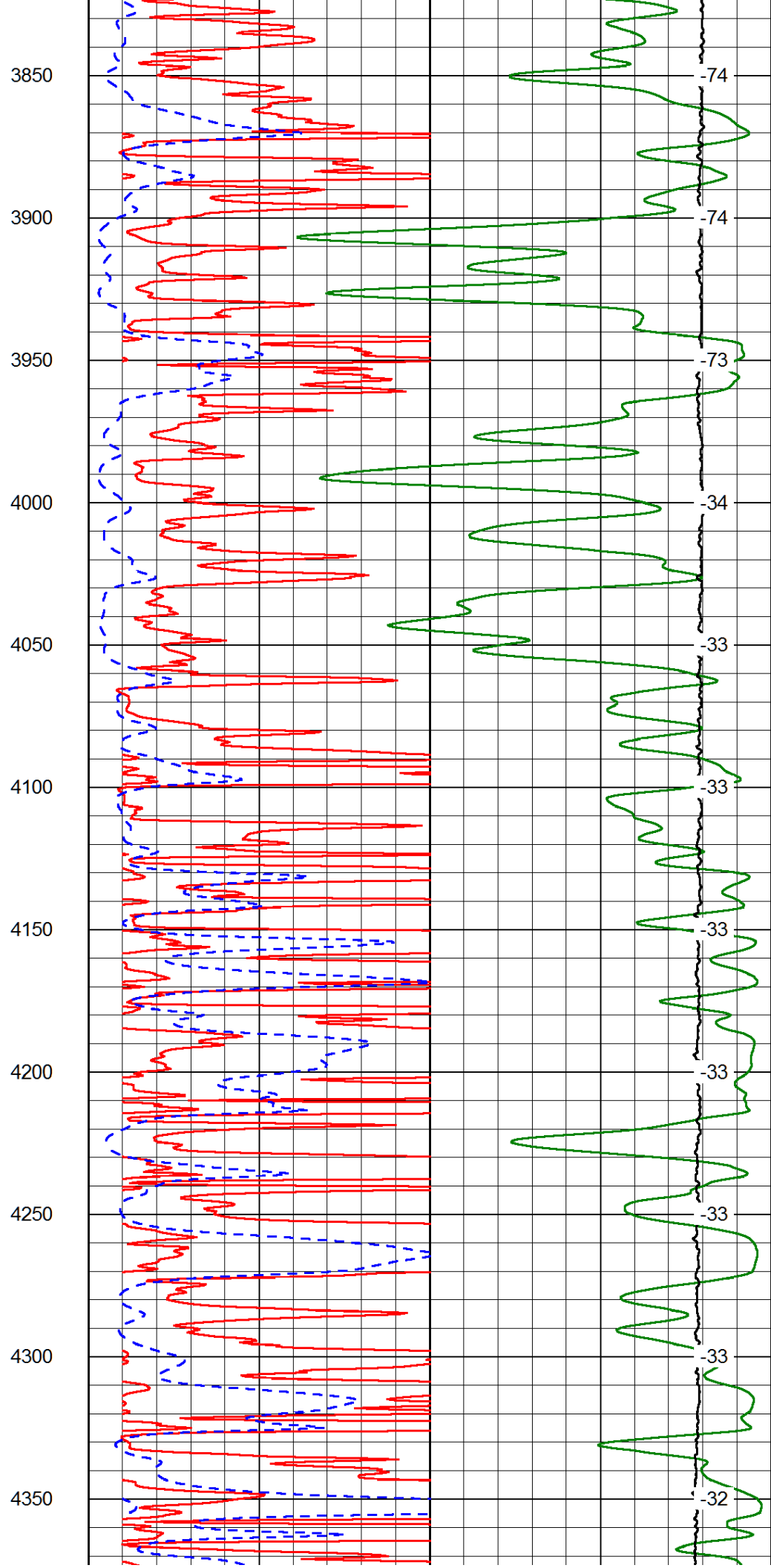
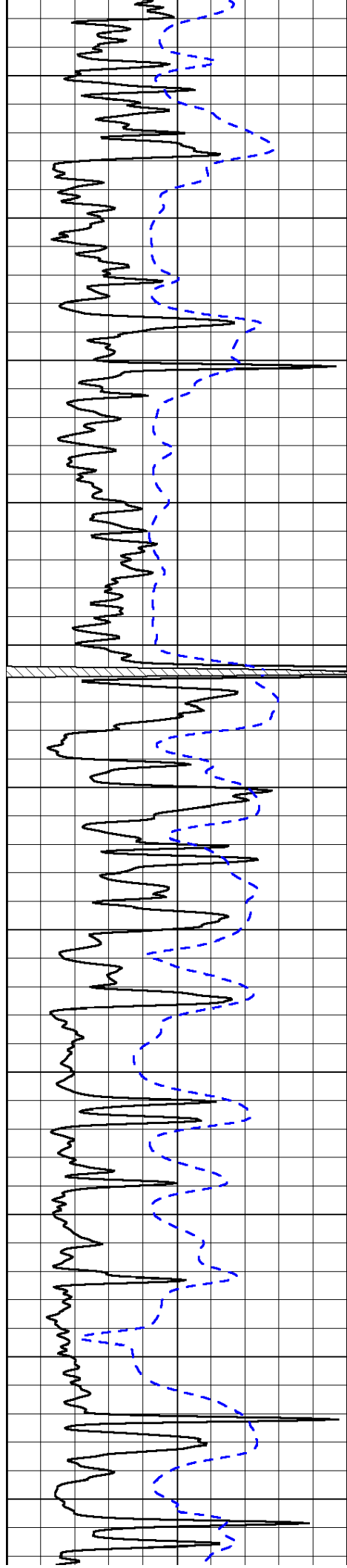
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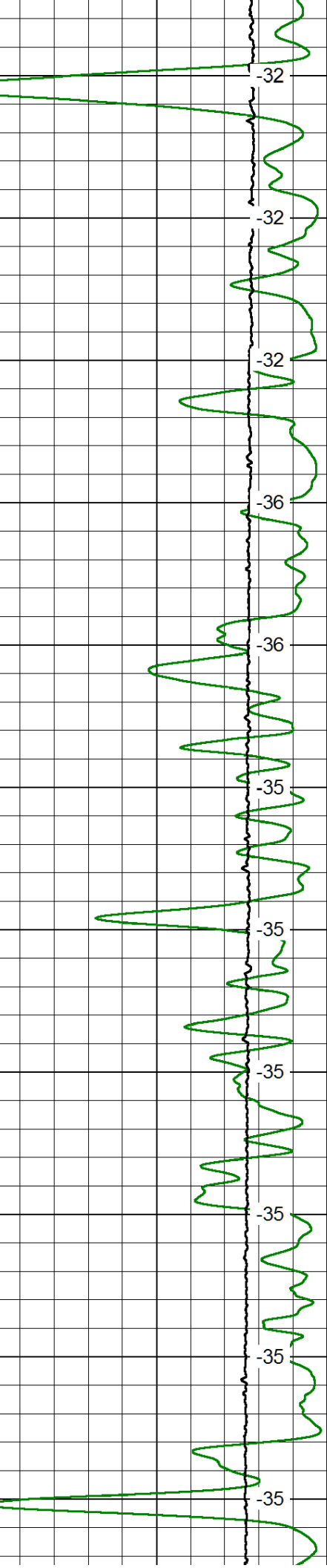
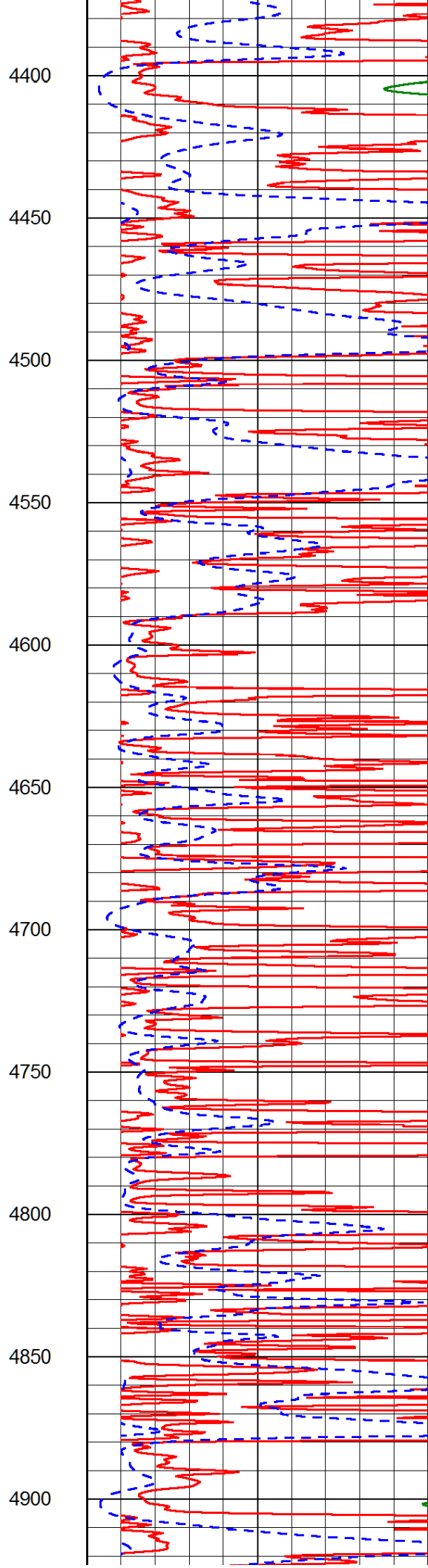
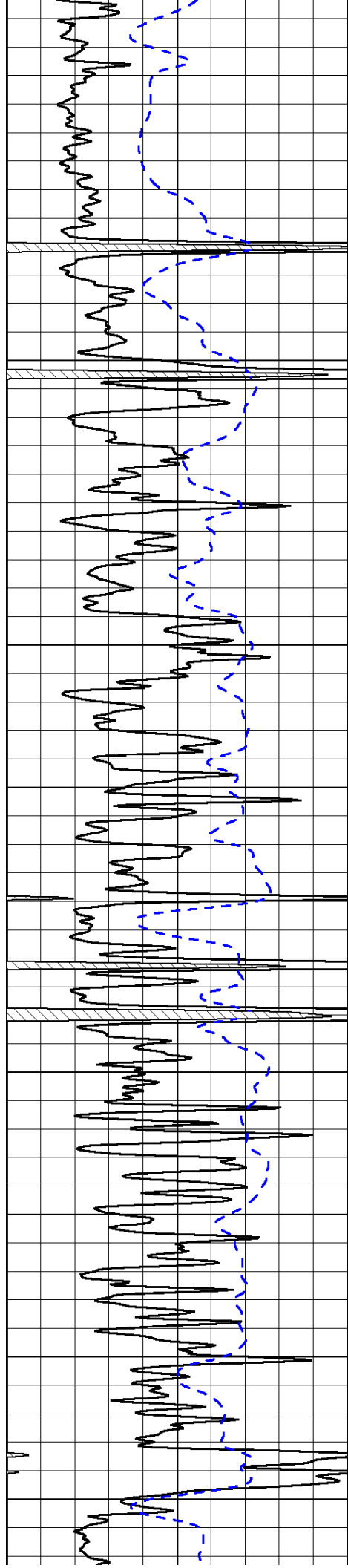


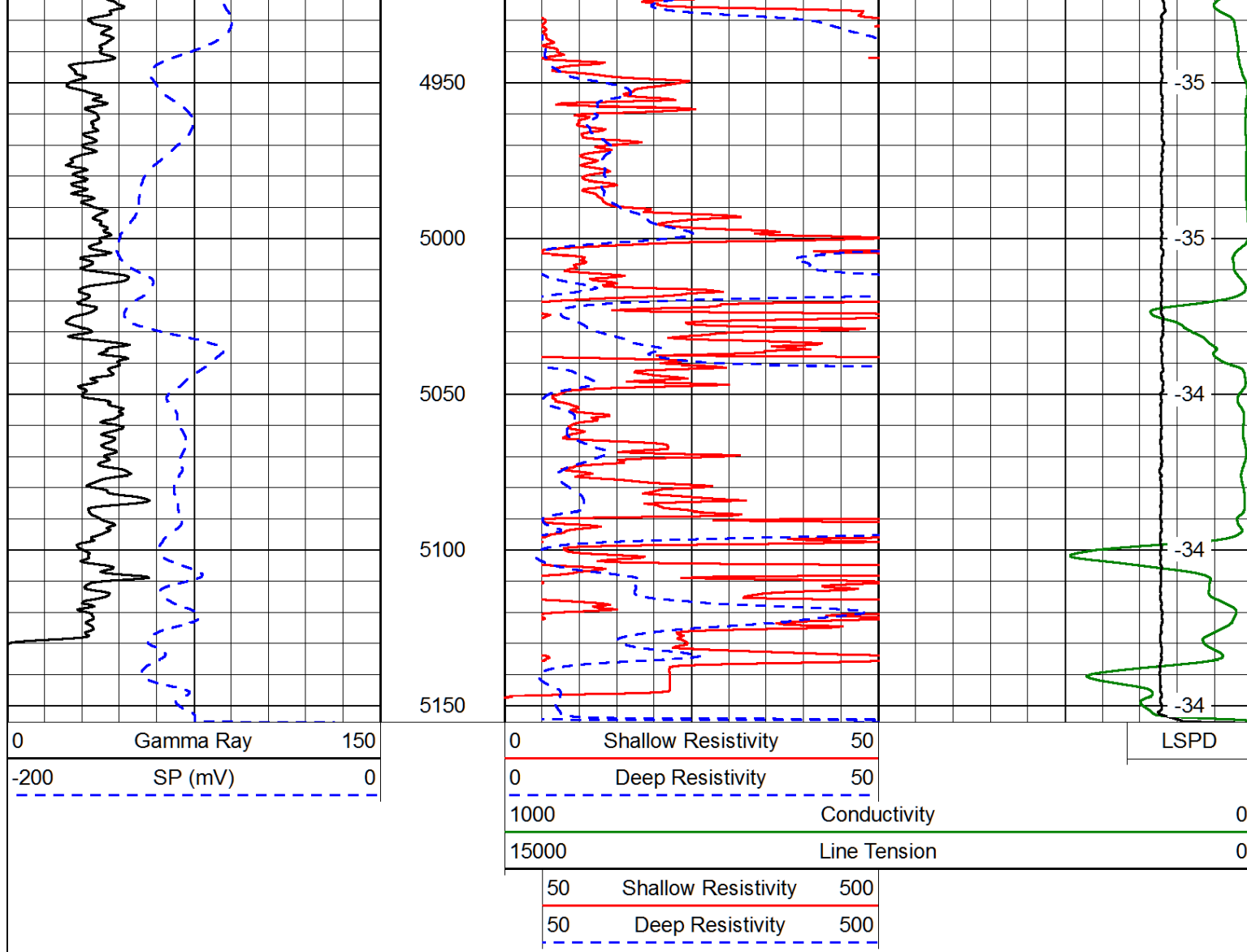




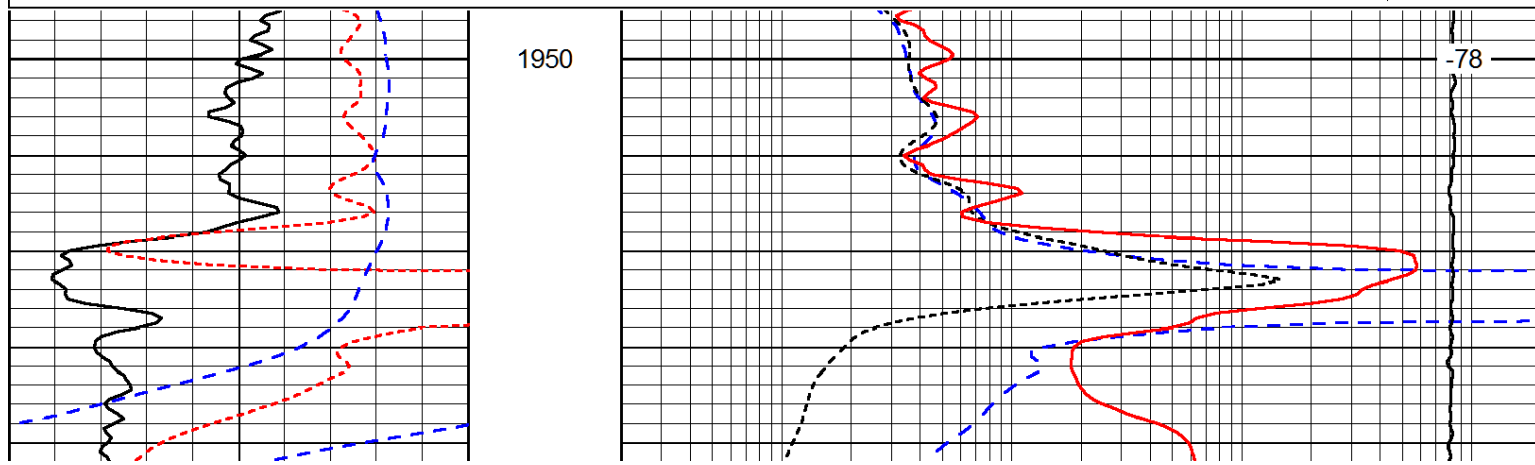
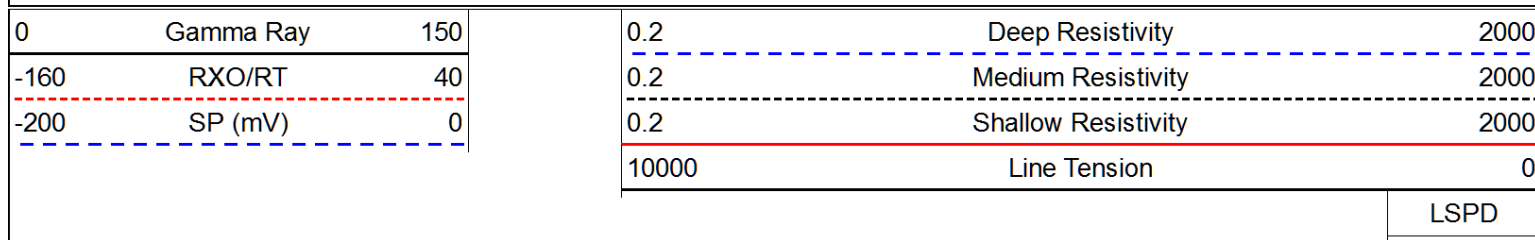


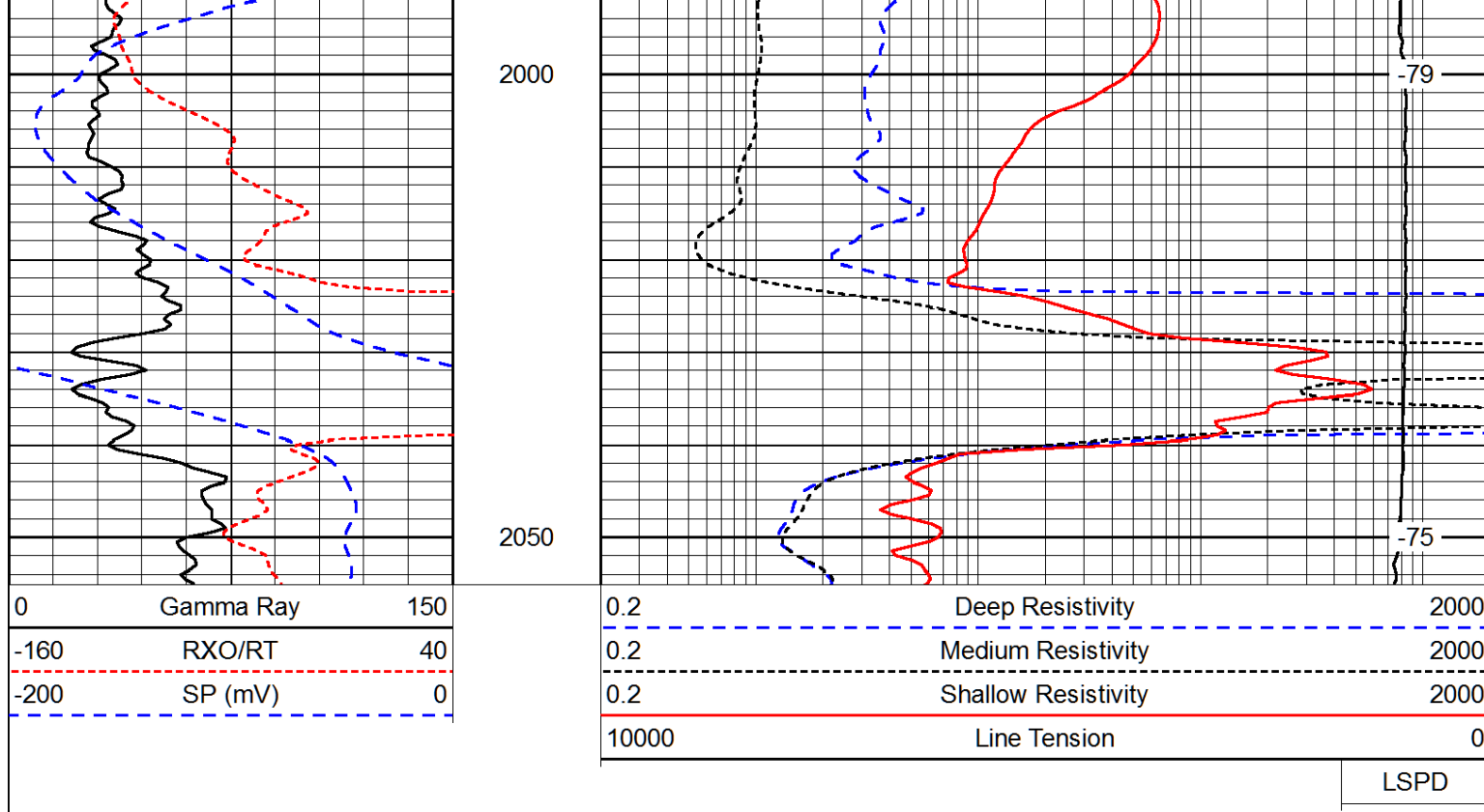




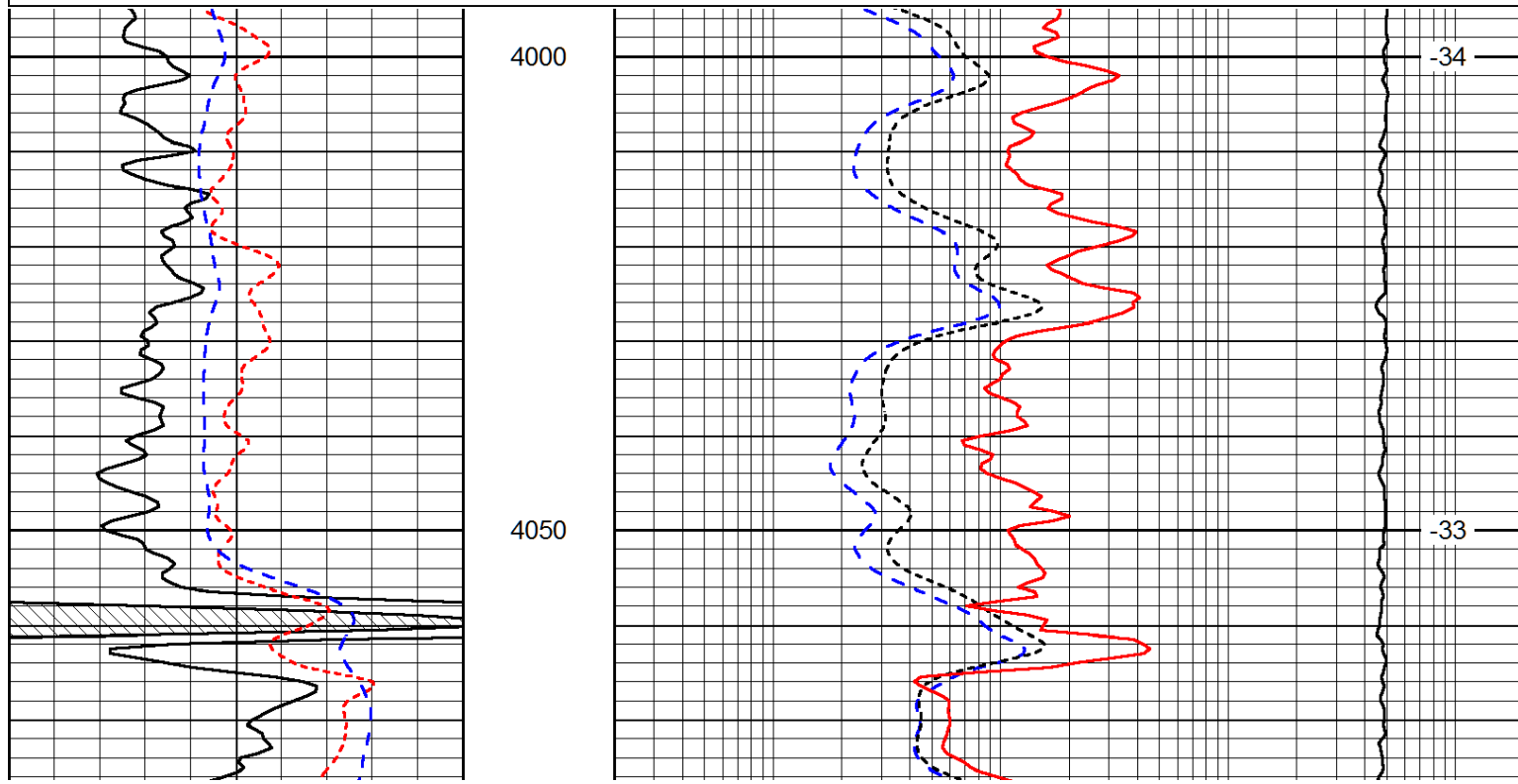
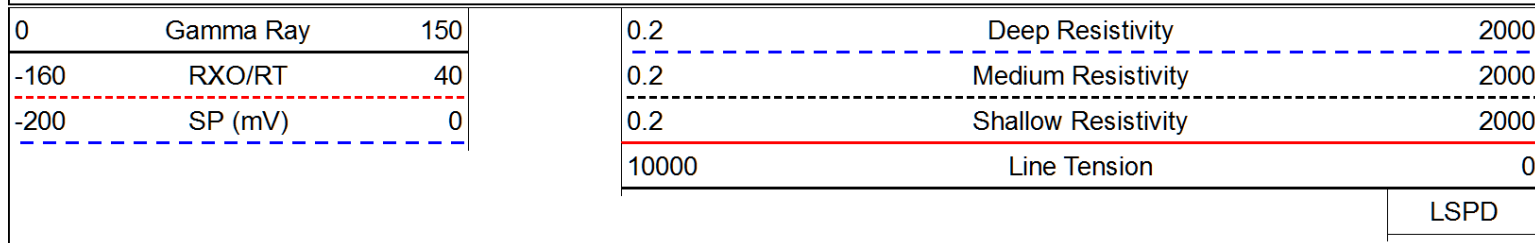


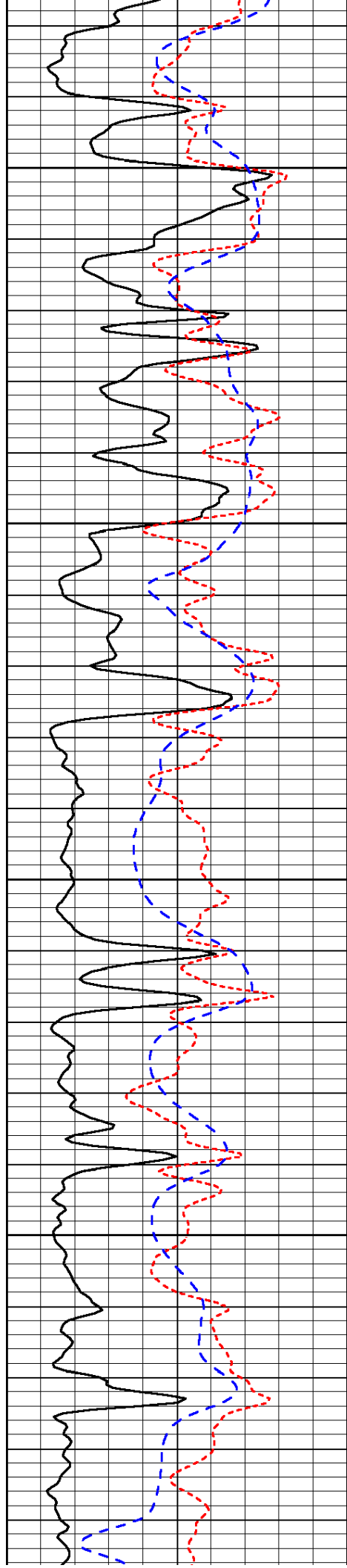
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Dataset Pathname: DIL/awstk
Presentation Format: dil
Dataset Creation: Tue Aug 12 21:33:21 2014
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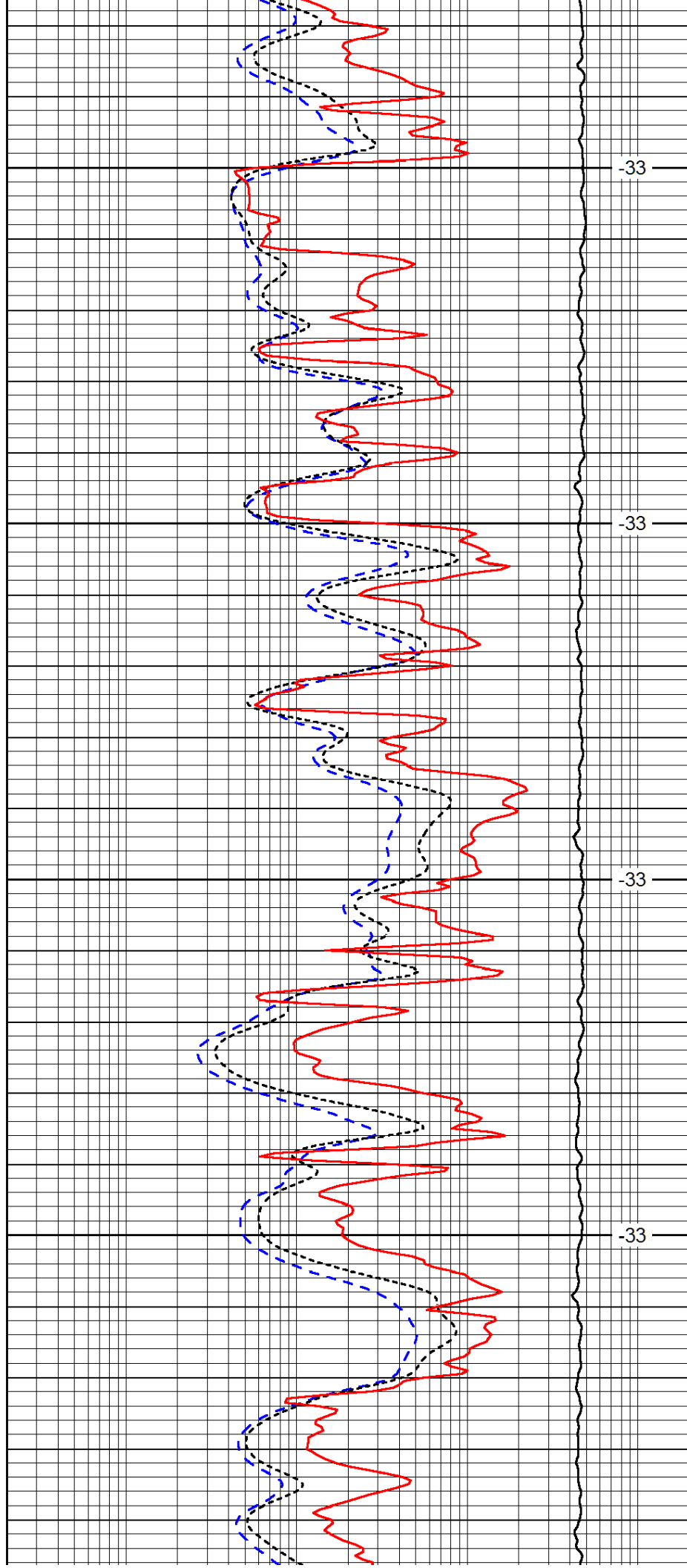


4100

4150

4200

4250

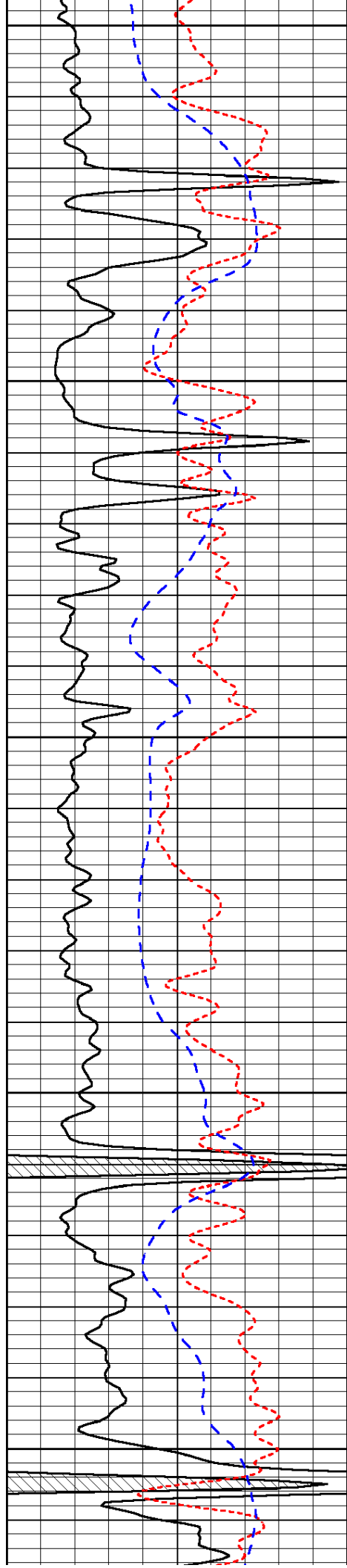


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-33

-33

-33



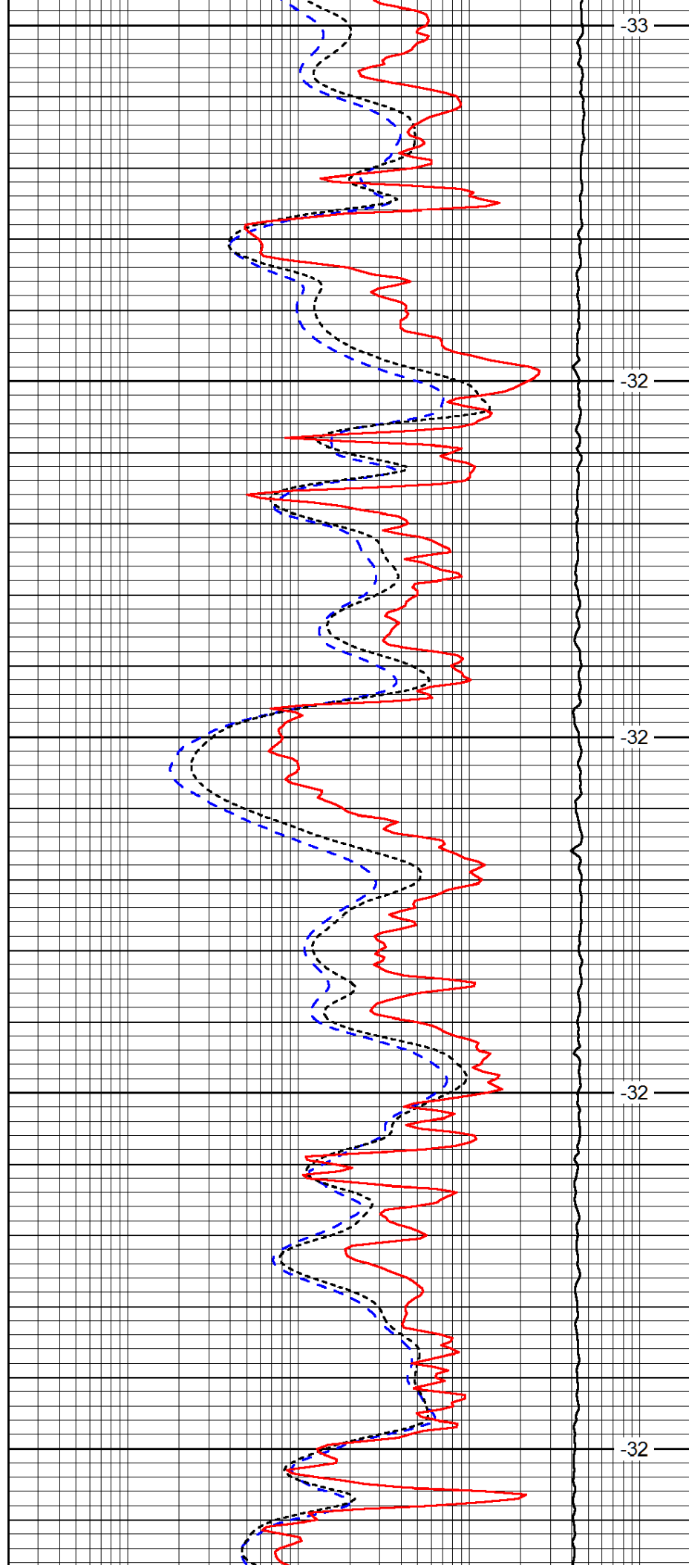
4300

4350

4400

4450

4500



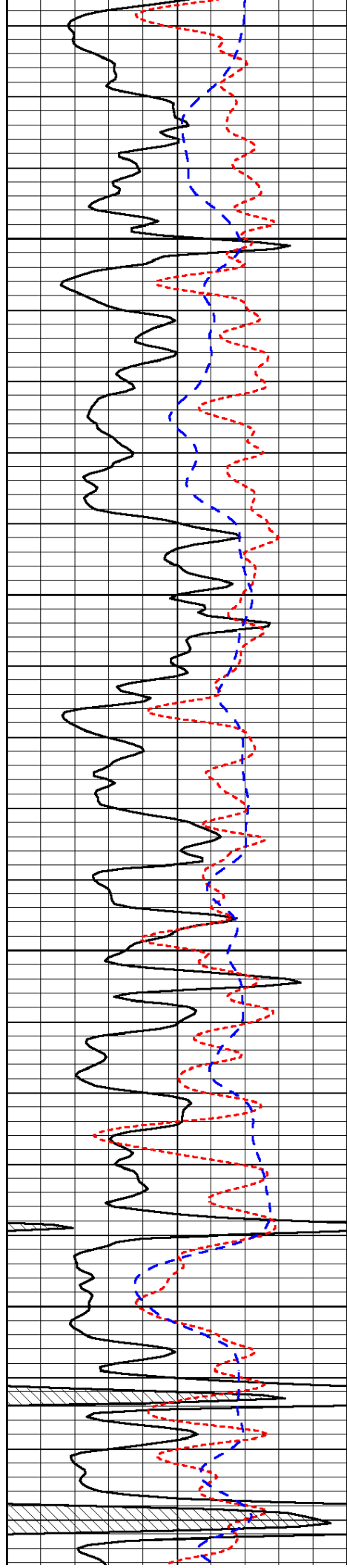
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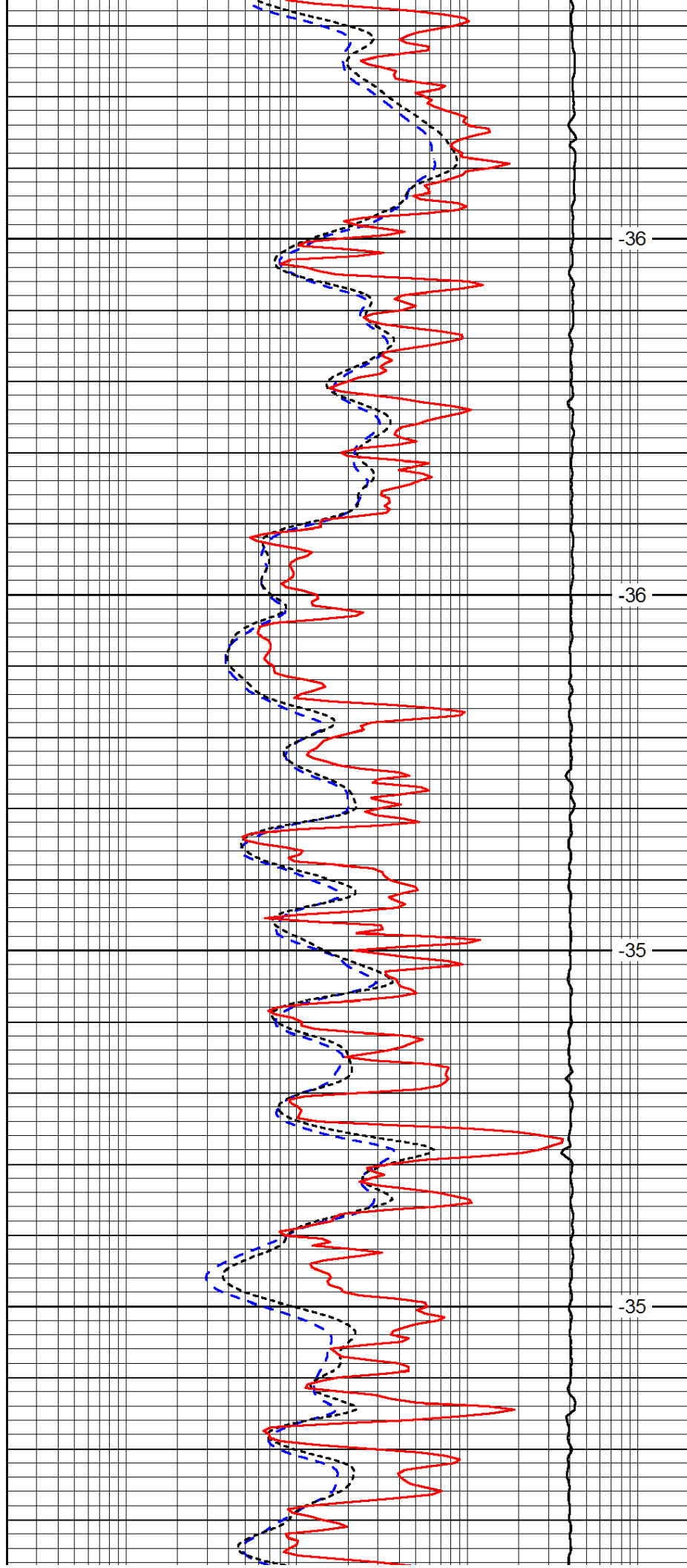


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4600

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4700

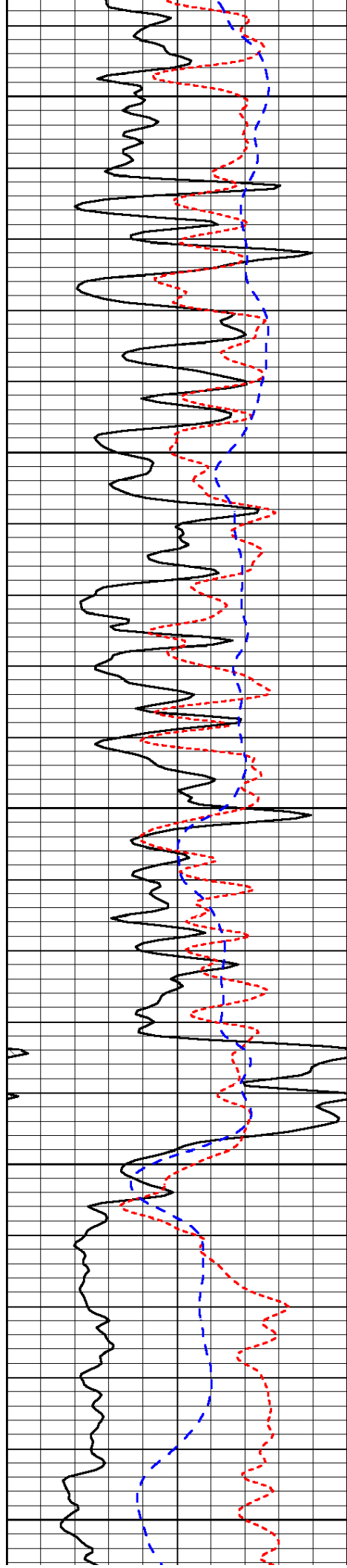


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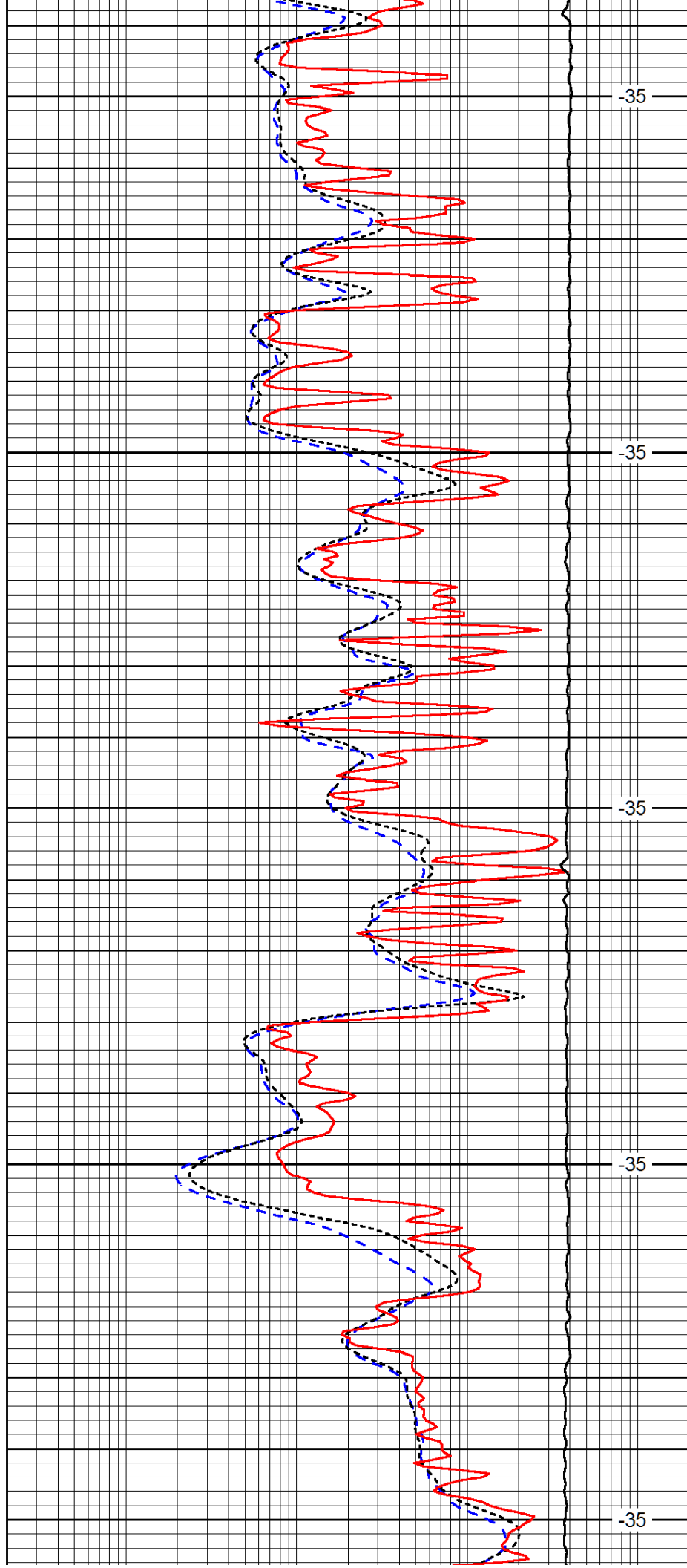
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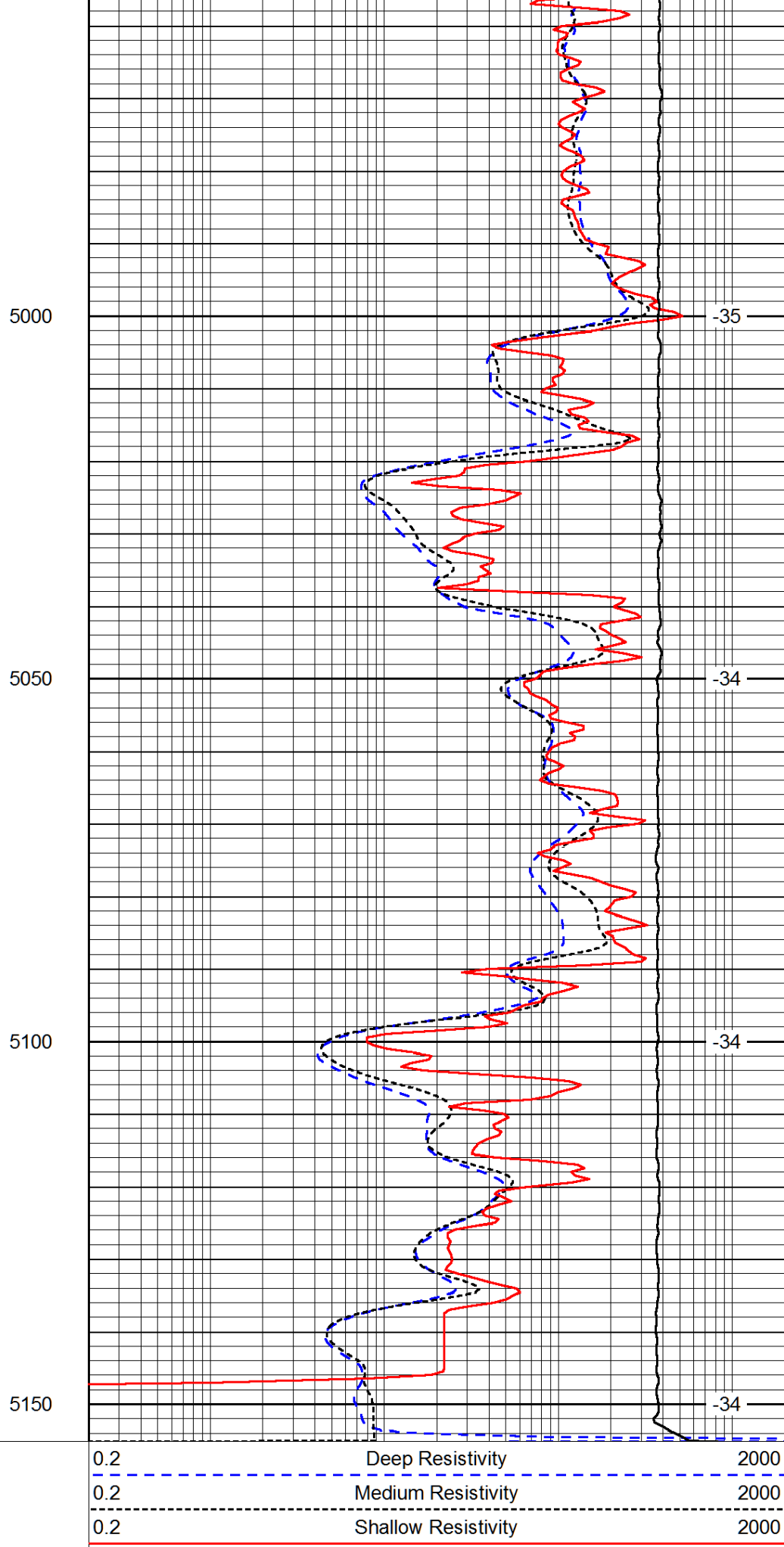
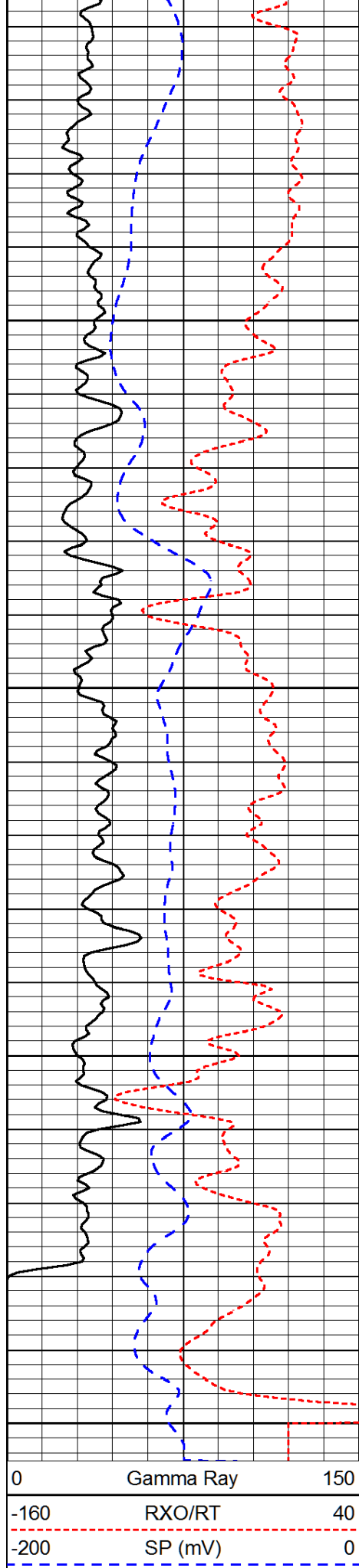
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-35



		LPR	