



Dual Induction Log

Pioneer Energy Services

API No.

15-185-23,852-00-00

Company H&D Exploration, LLC

Well Hearn-Debes No. 1

Field

County

Stafford

State

Kansas

Location

SW-SE-SE-SW
142' FSL & 2284' FWL

Other Services
CNL/CDL
MEI/BHCS

Sec: 3

Twp: 25S

Rge: 12W

Elevation

Permanent Datum Ground Level Elevation 1868
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 2/1/14

Run Number

One

Depth Driller

4220

Depth Logger

4216

Bottom Logged Interval

4215

Top Log Interval

650

Casing Driller

8.625 @ 680

Casing Logger

678

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

7.200

Density / Viscosity

8.9 72

pH / Fluid Loss

9.0 8.8

Source of Sample

Flowline

Rm @ Meas. Temp

.90 @ 45

Rmf @ Meas. Temp

.68 @ 45

Rmc @ Meas. Temp

1.22 @ 45

Source of Rmf / Rmc

Charts

Rm @ BHT

.34 @ 118

Operating Rig Time

5 Hours

Max Rec. Temp. F

118

Equipment Number

15

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Josh Austin

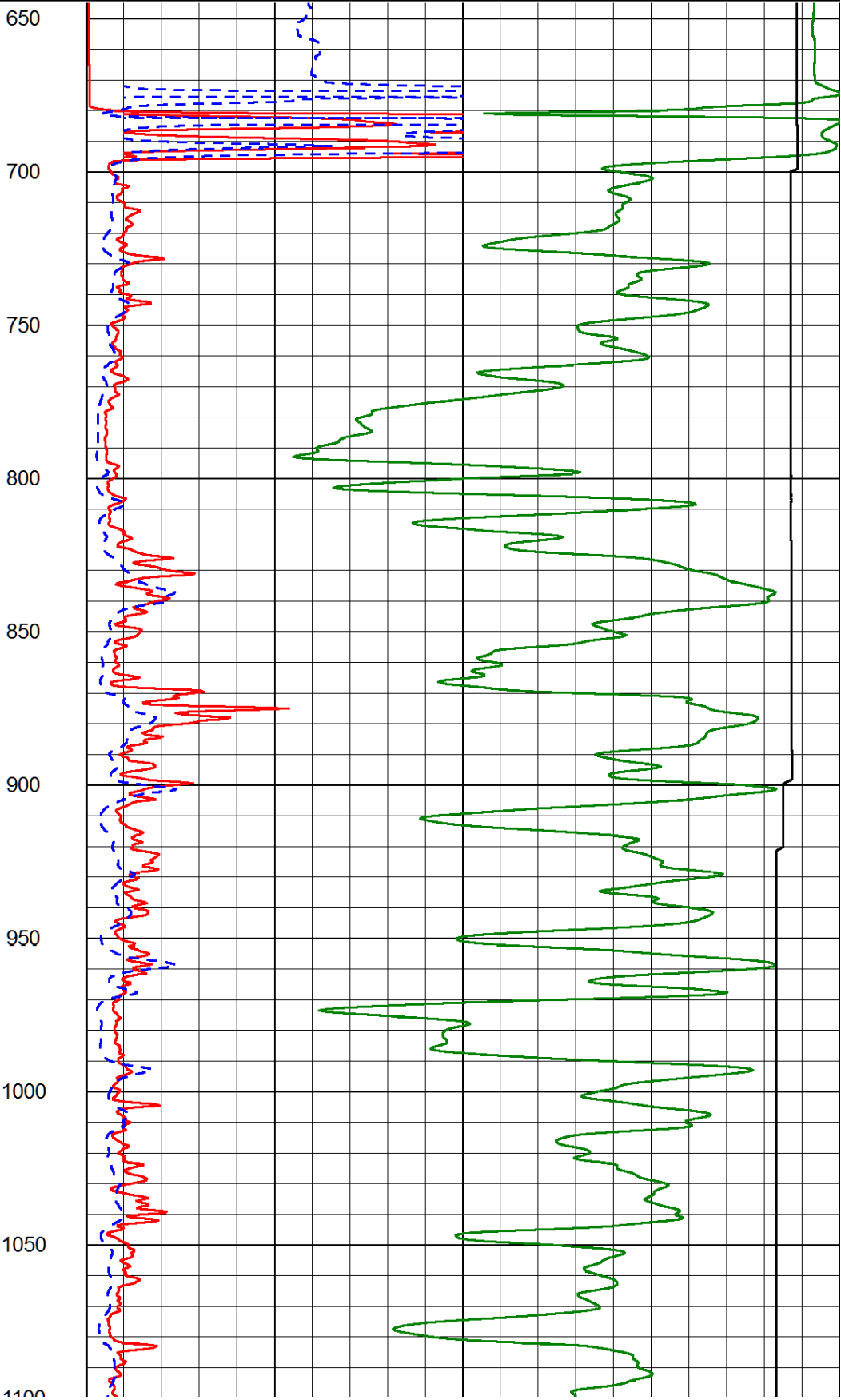
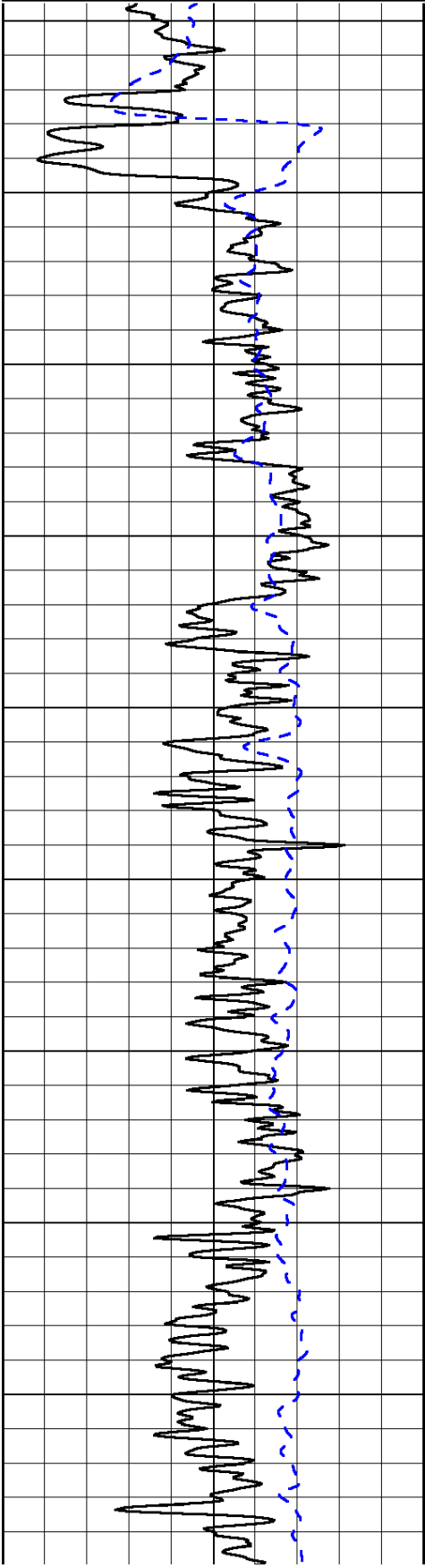
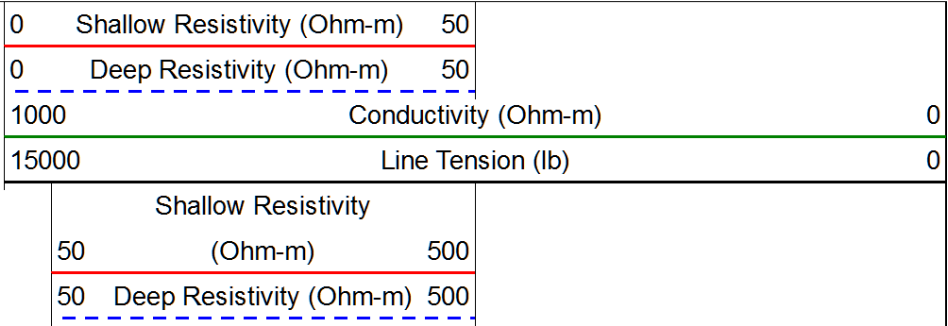
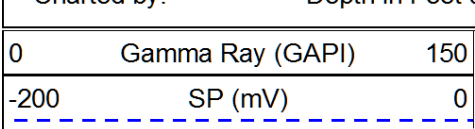
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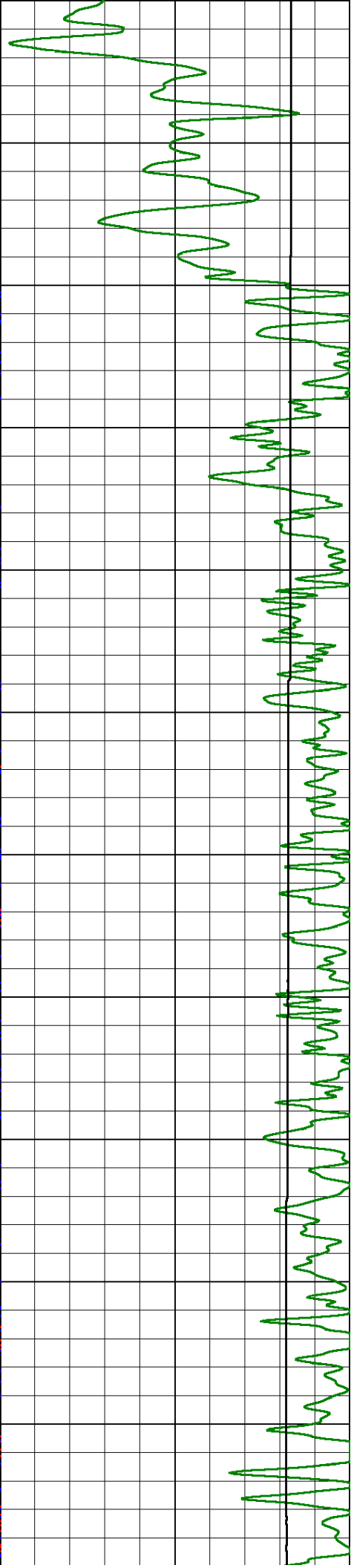
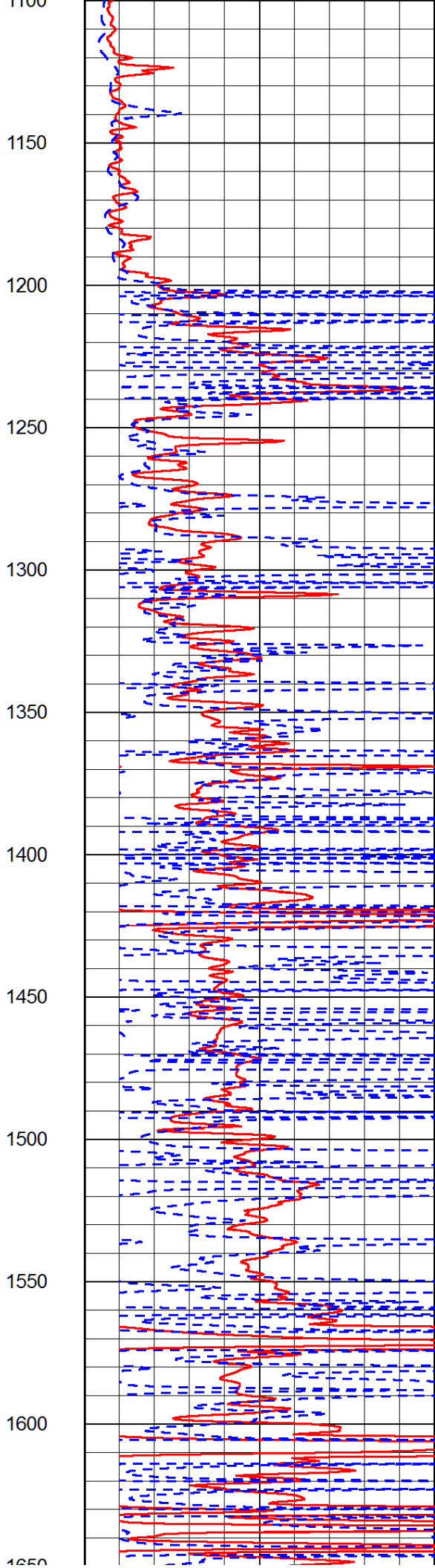
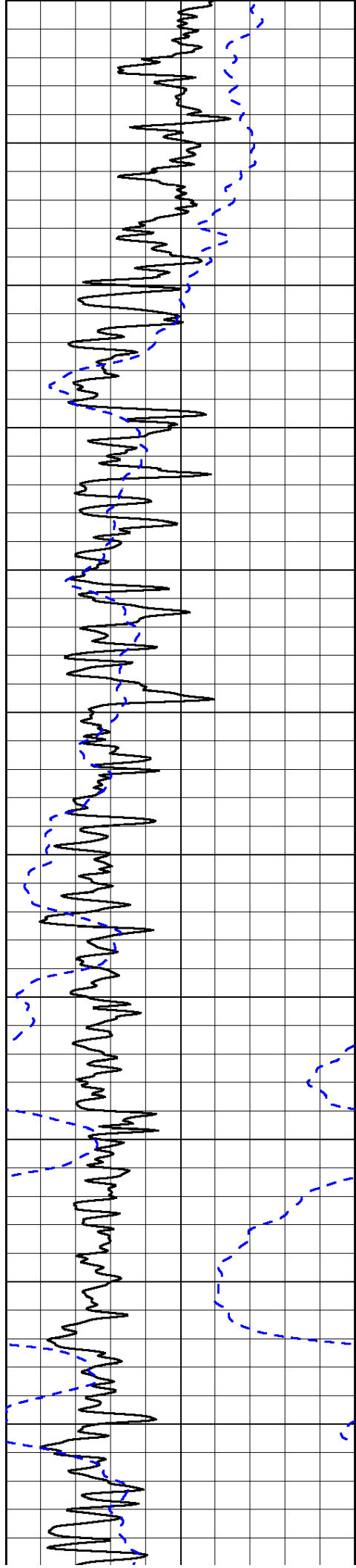
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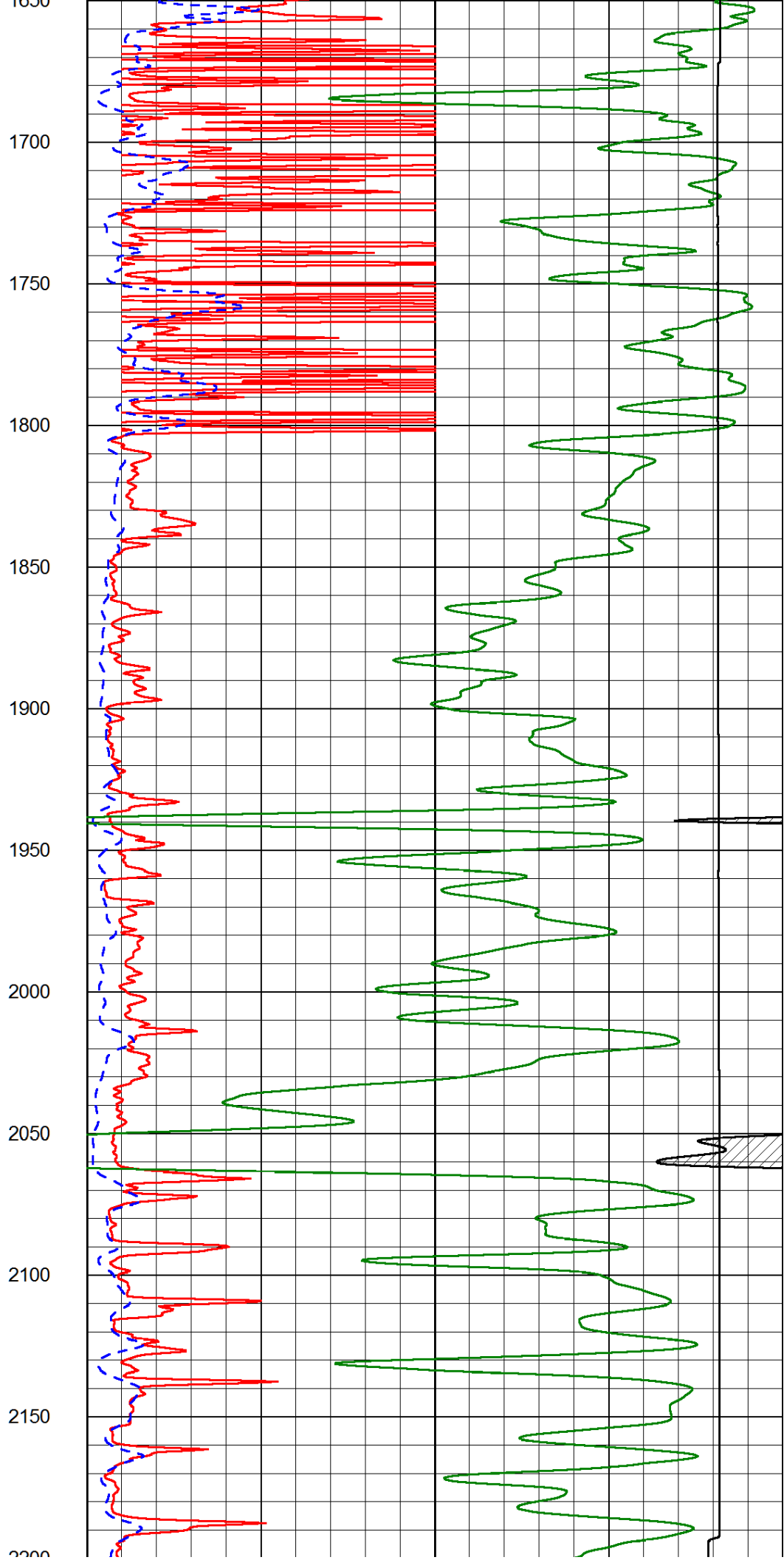
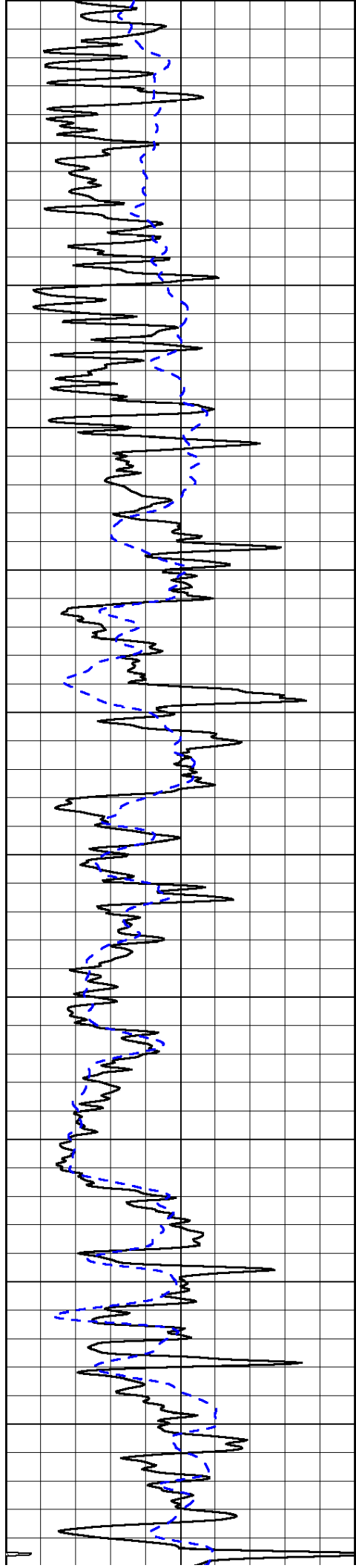
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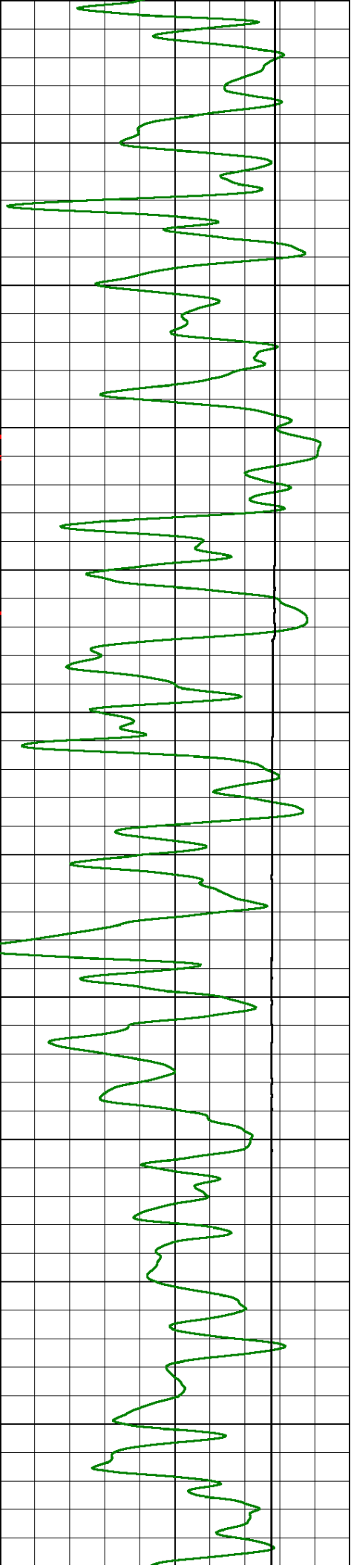
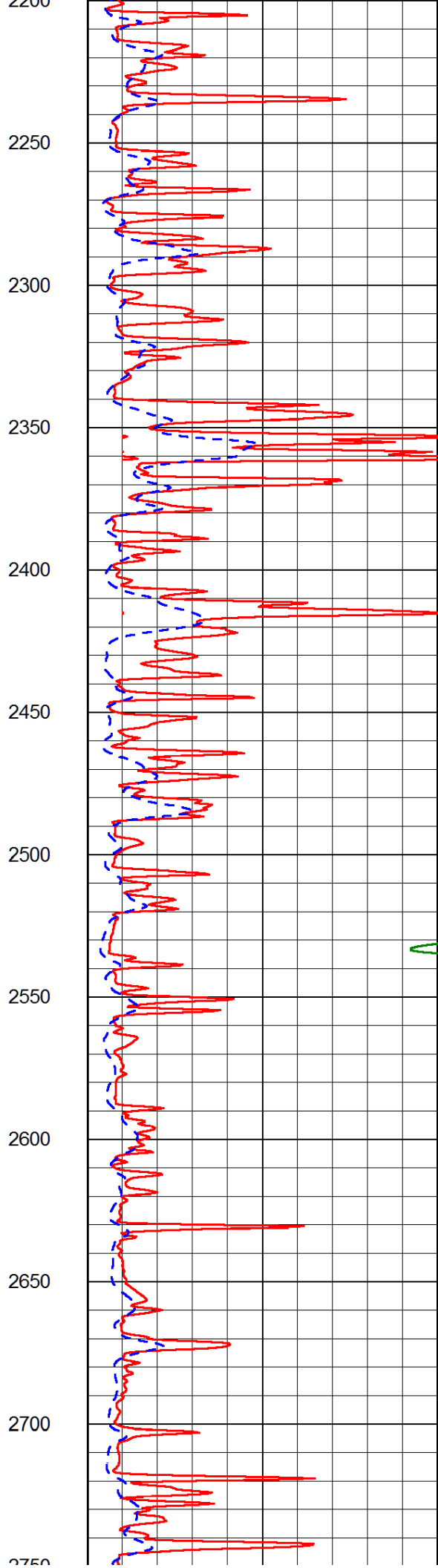
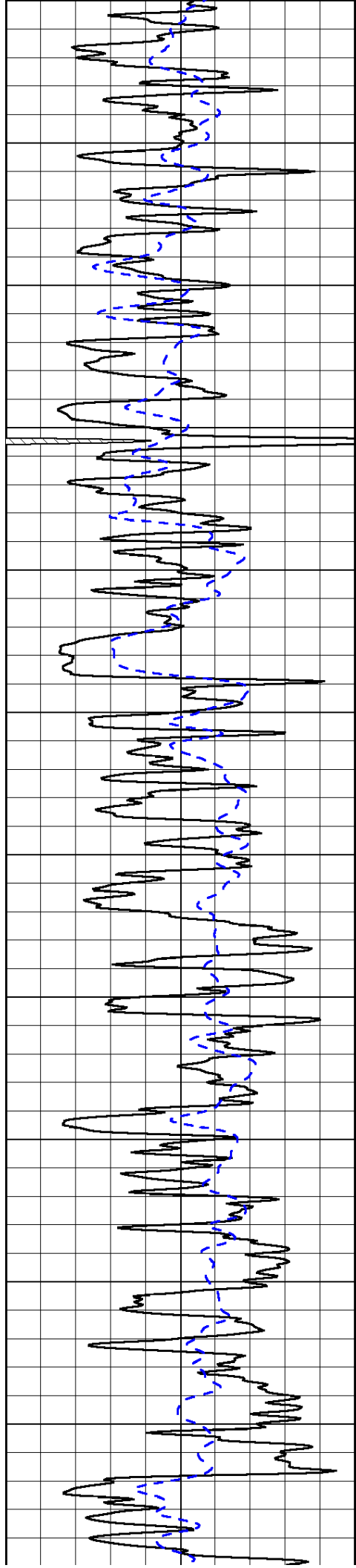
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(785) 625-3858

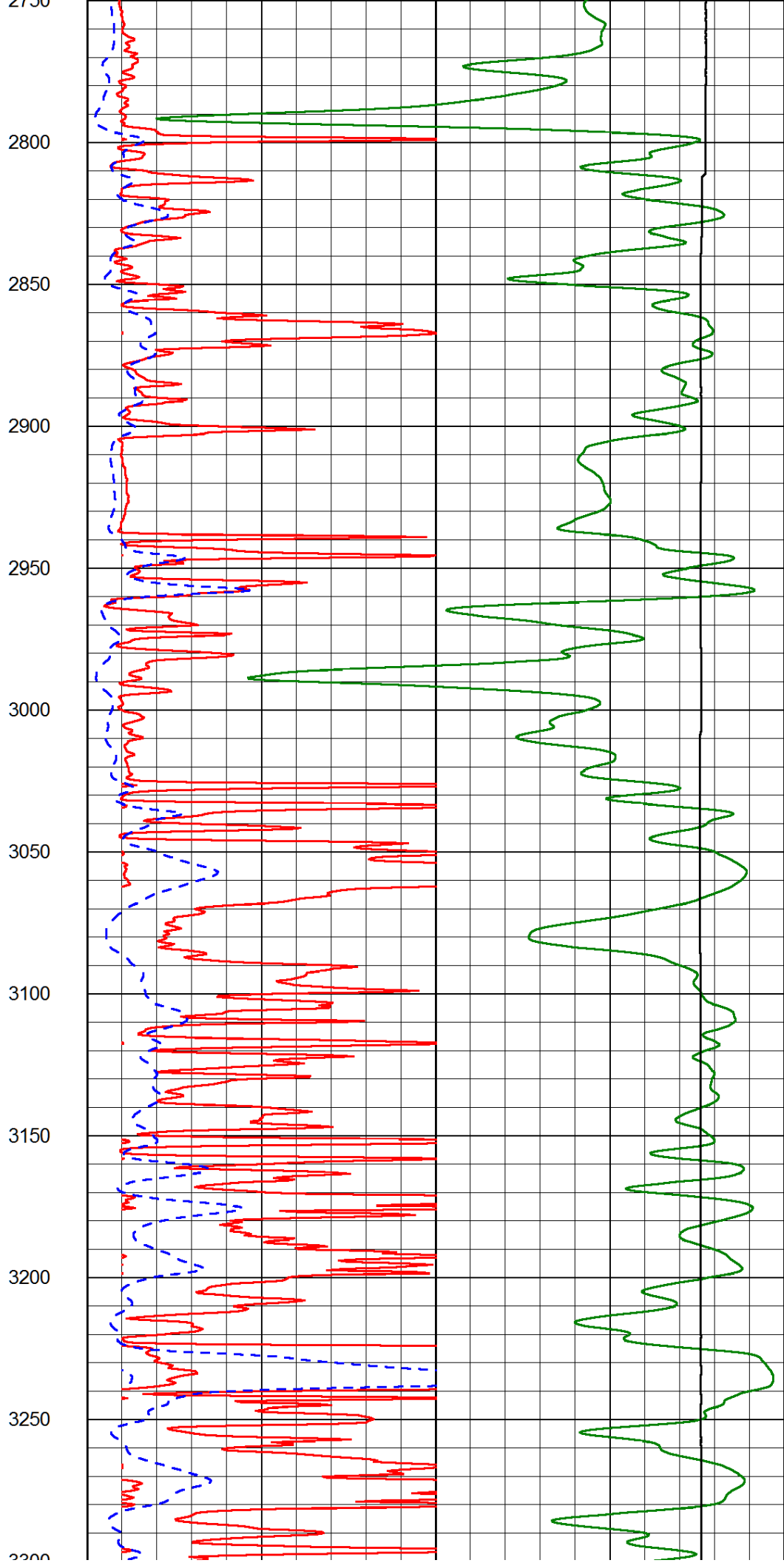
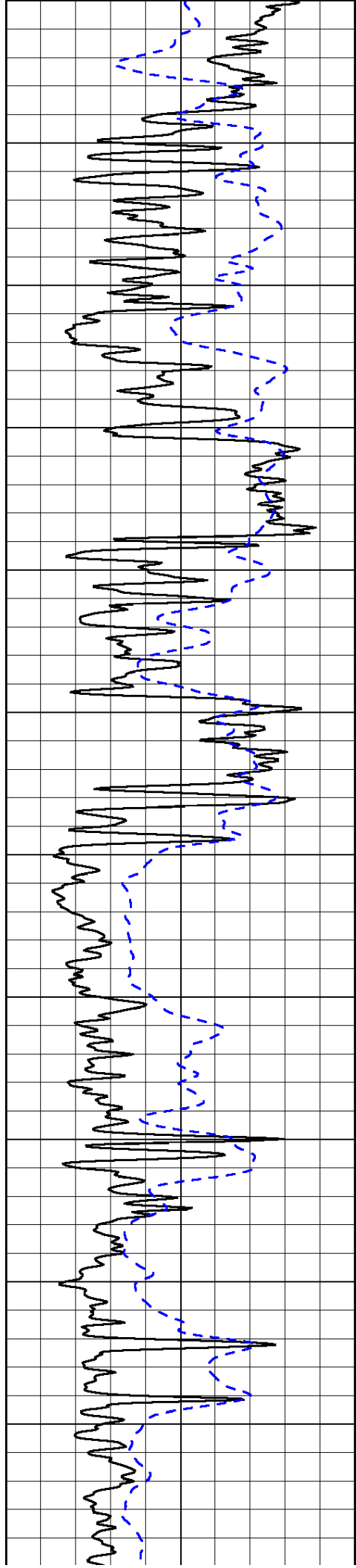
Stafford Kansas
4 South, 1 1/2 West, North Into

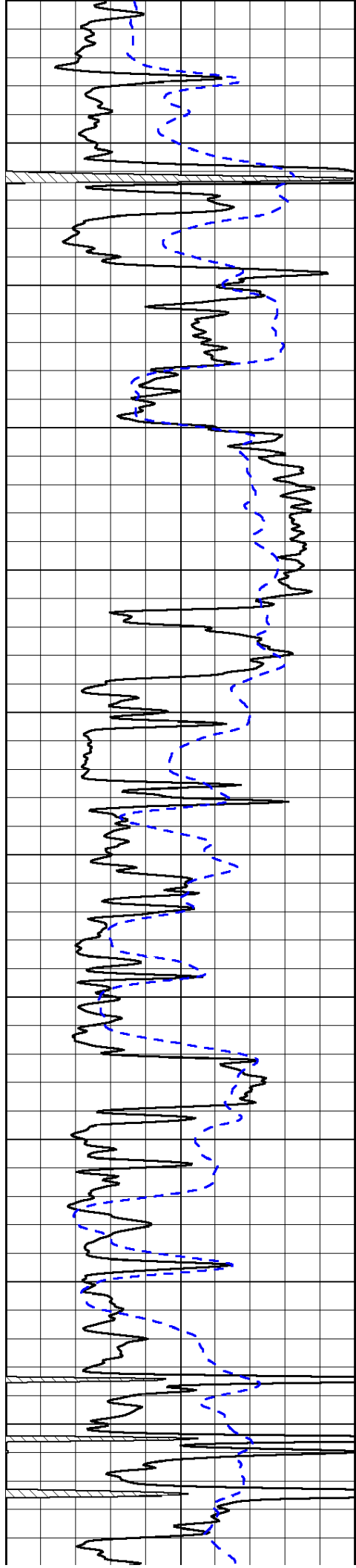




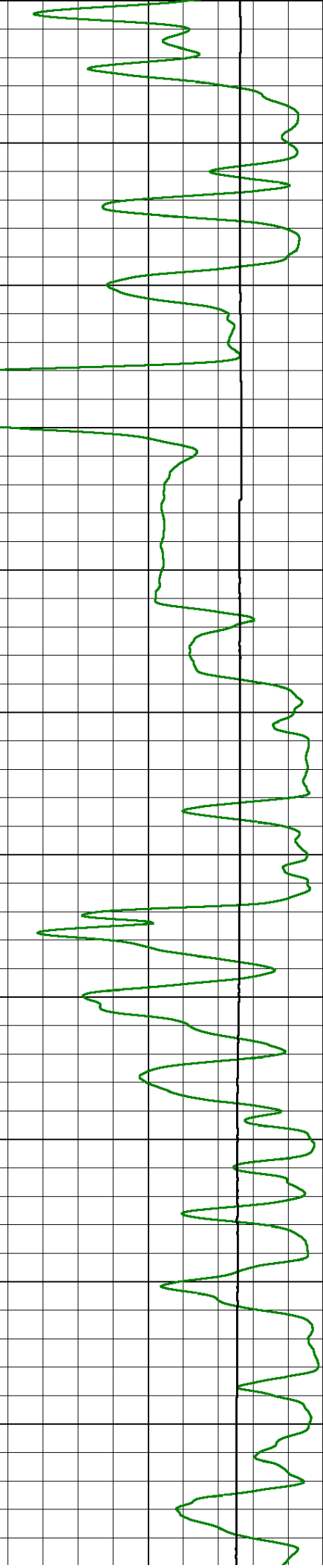
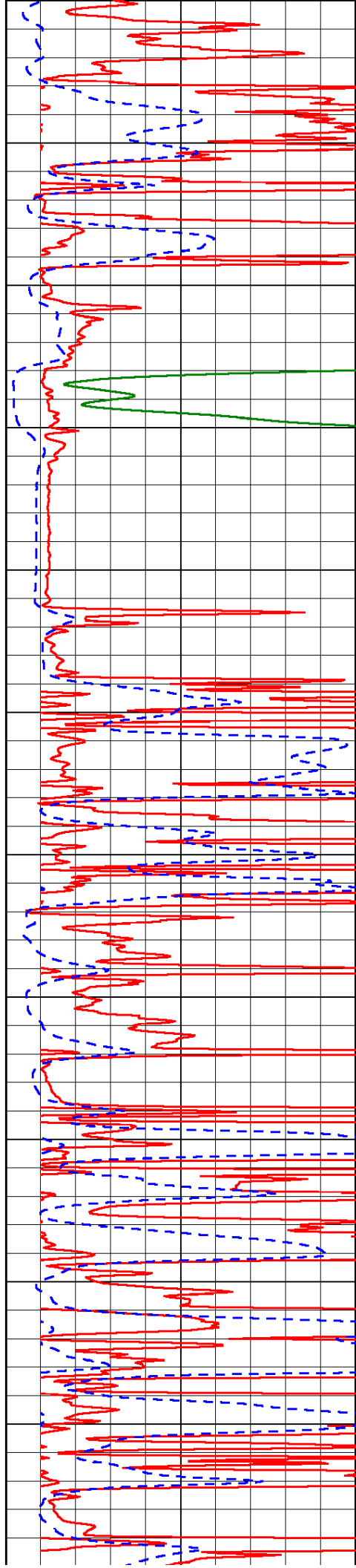


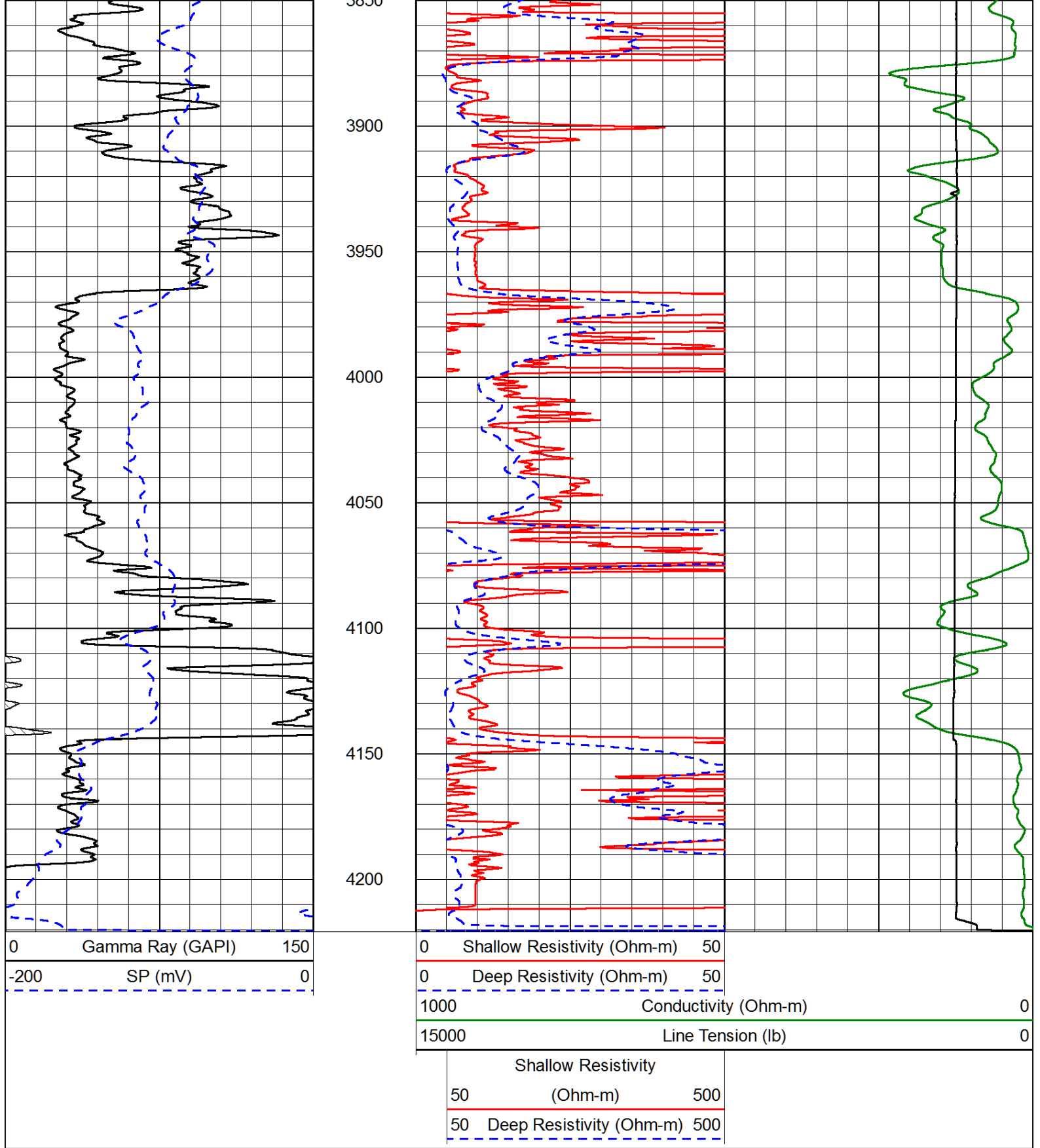






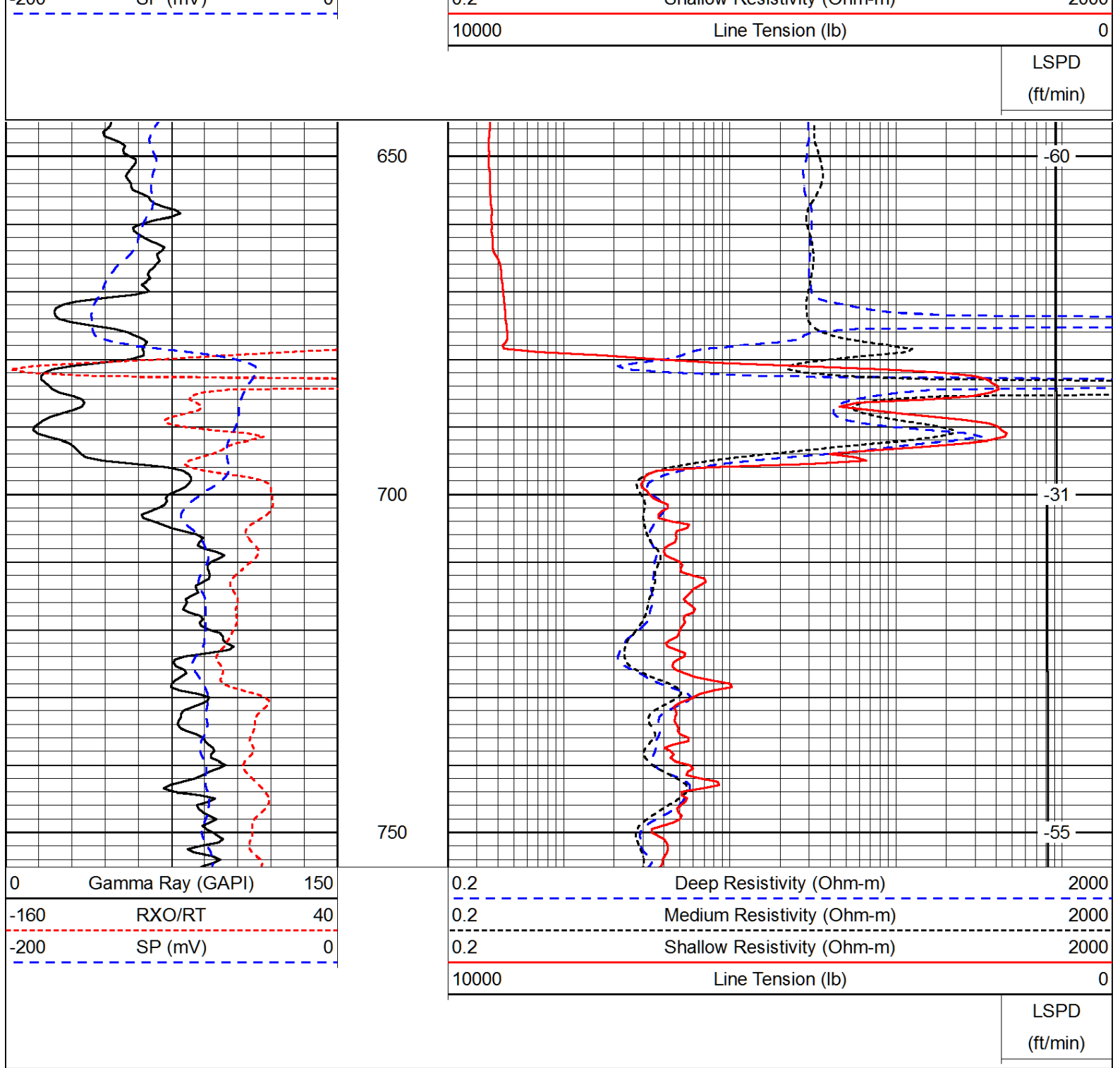
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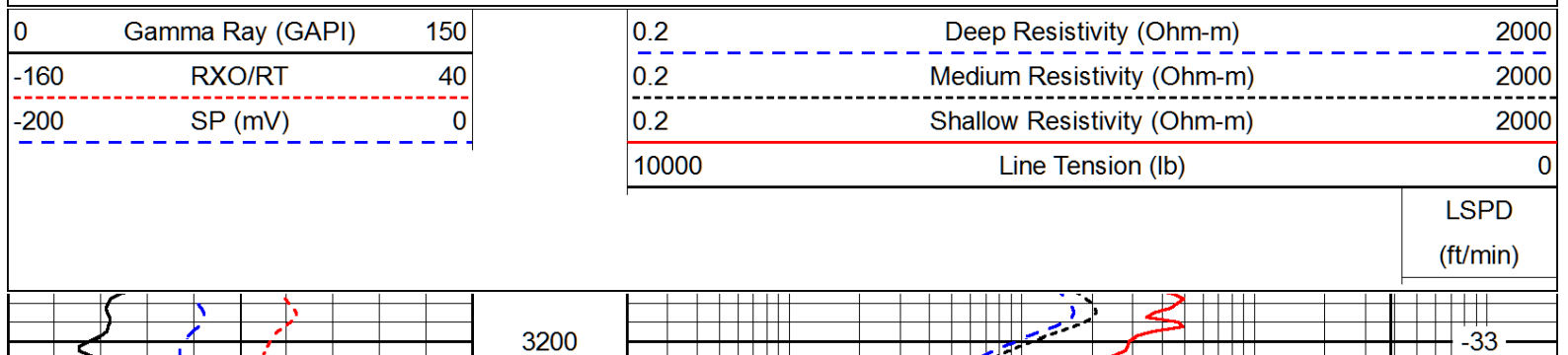


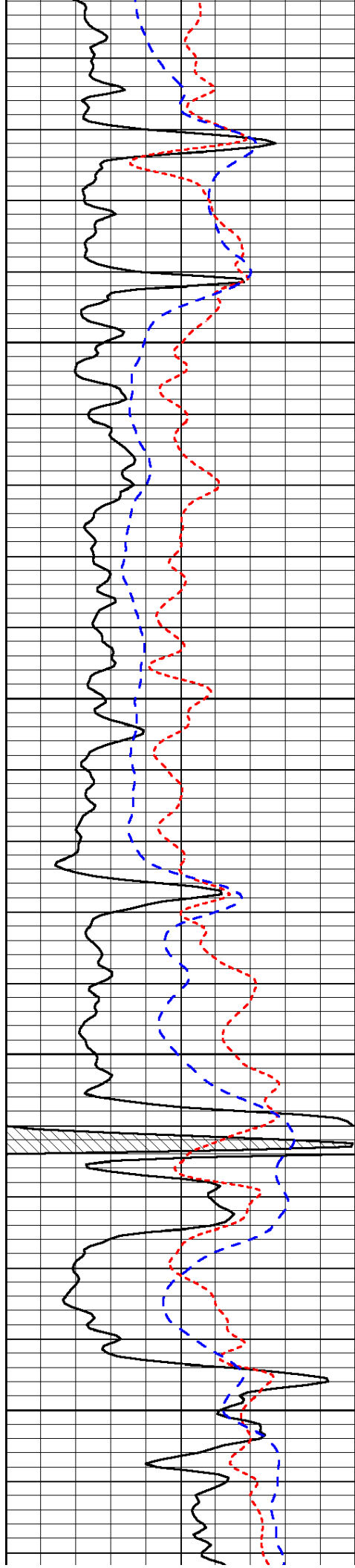
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Dataset Pathname: DIL/hdstk
Presentation Format: dil
Dataset Creation: Sat Feb 01 05:37:13 2014
Charted by: Depth in Feet scaled 1:240





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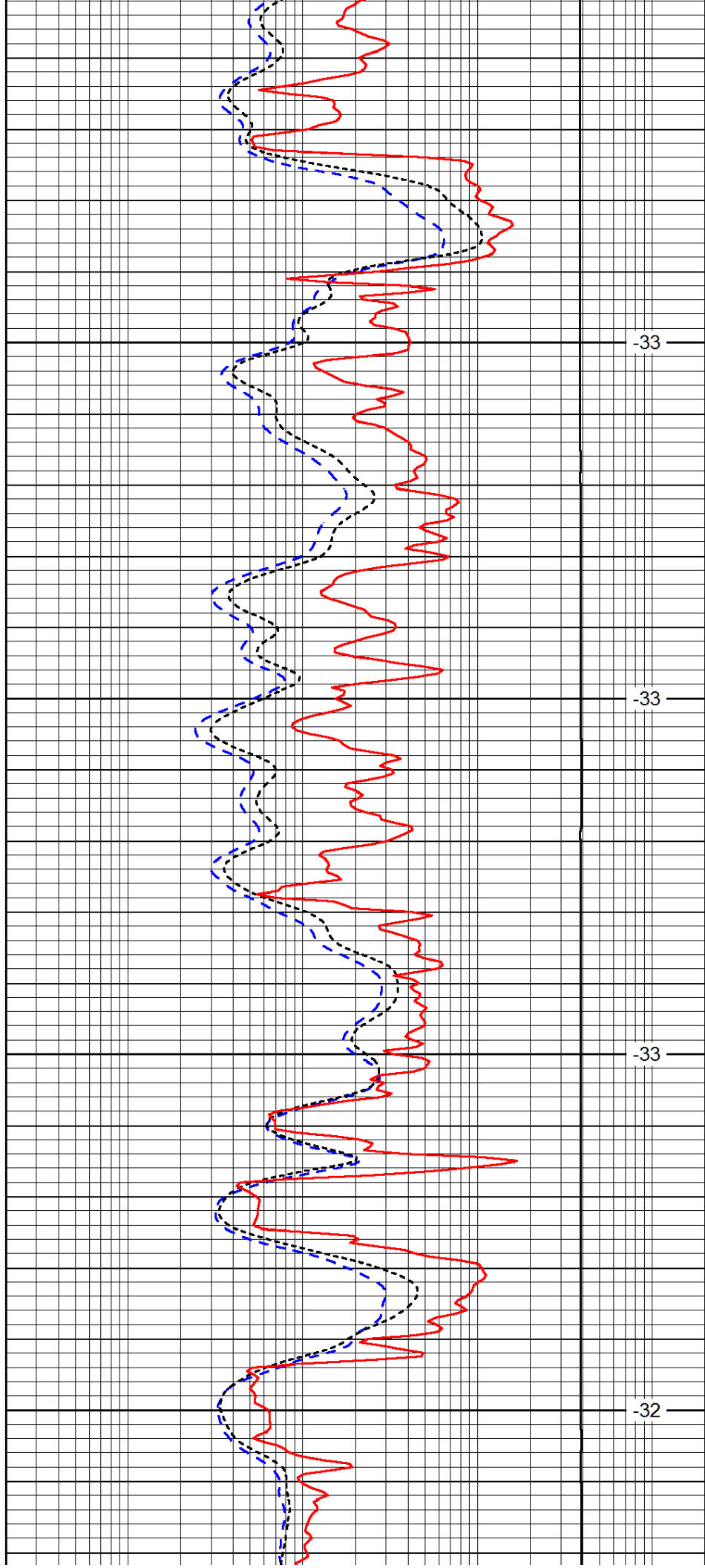


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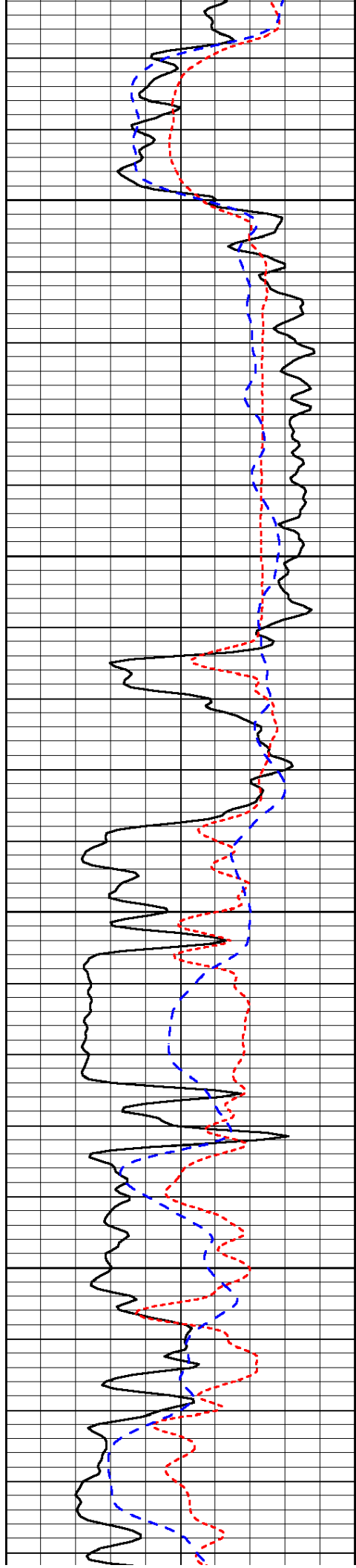


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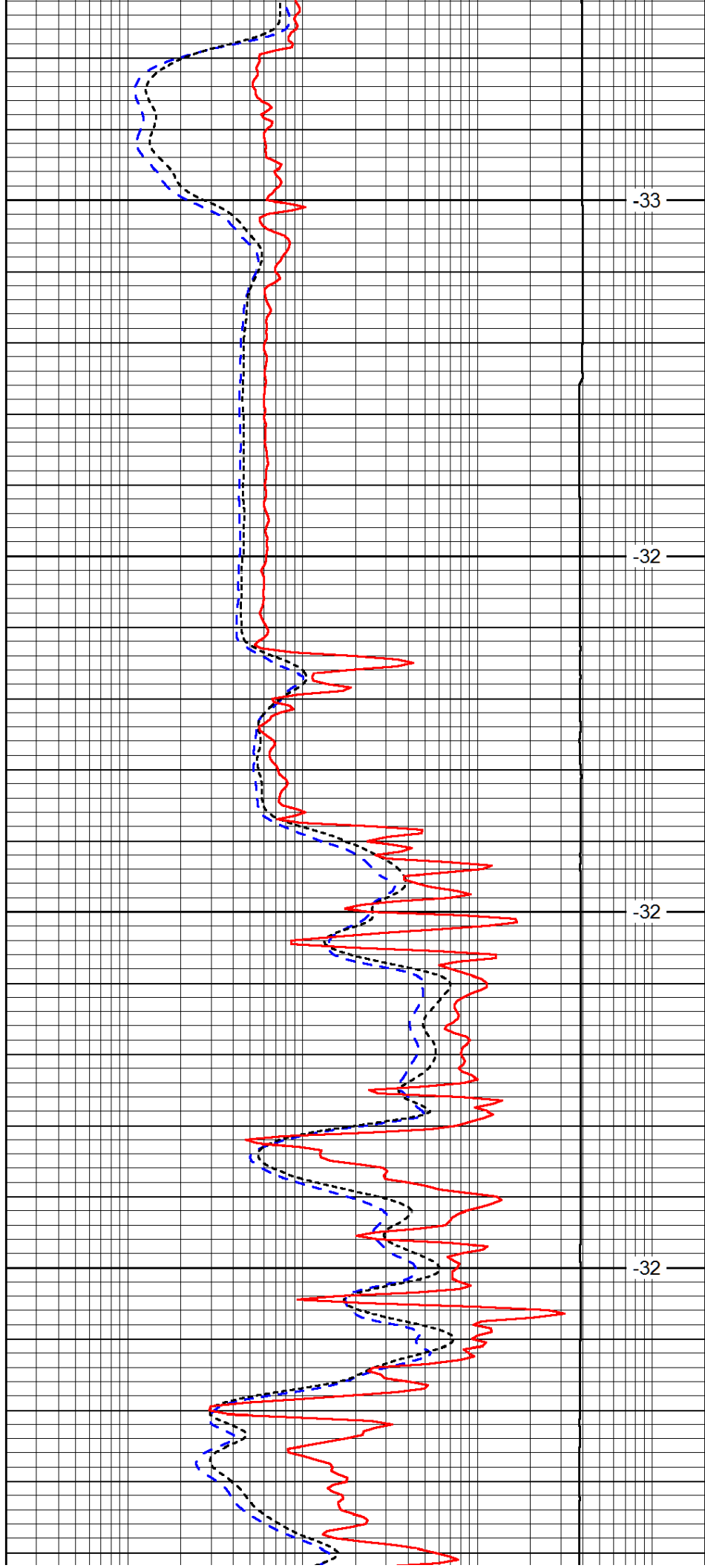


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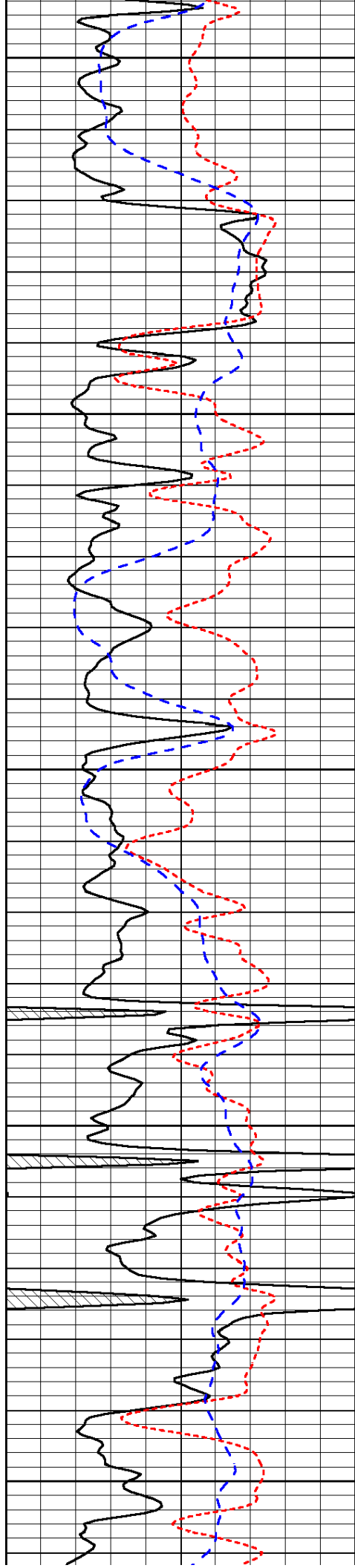


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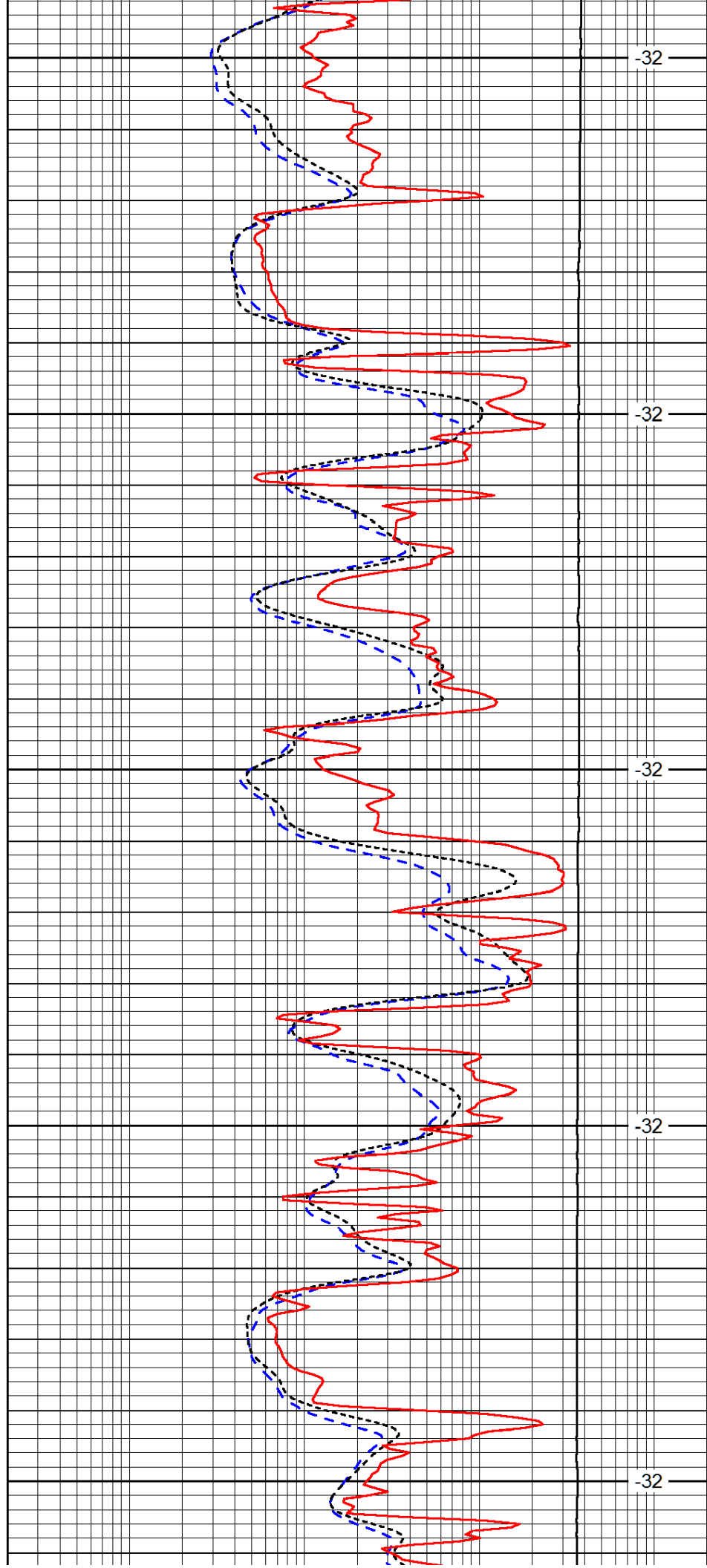
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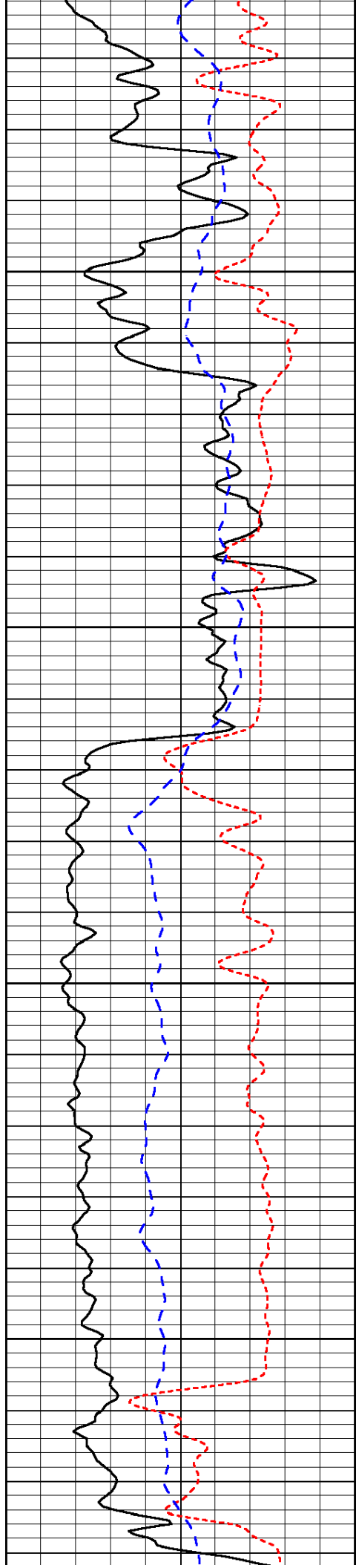
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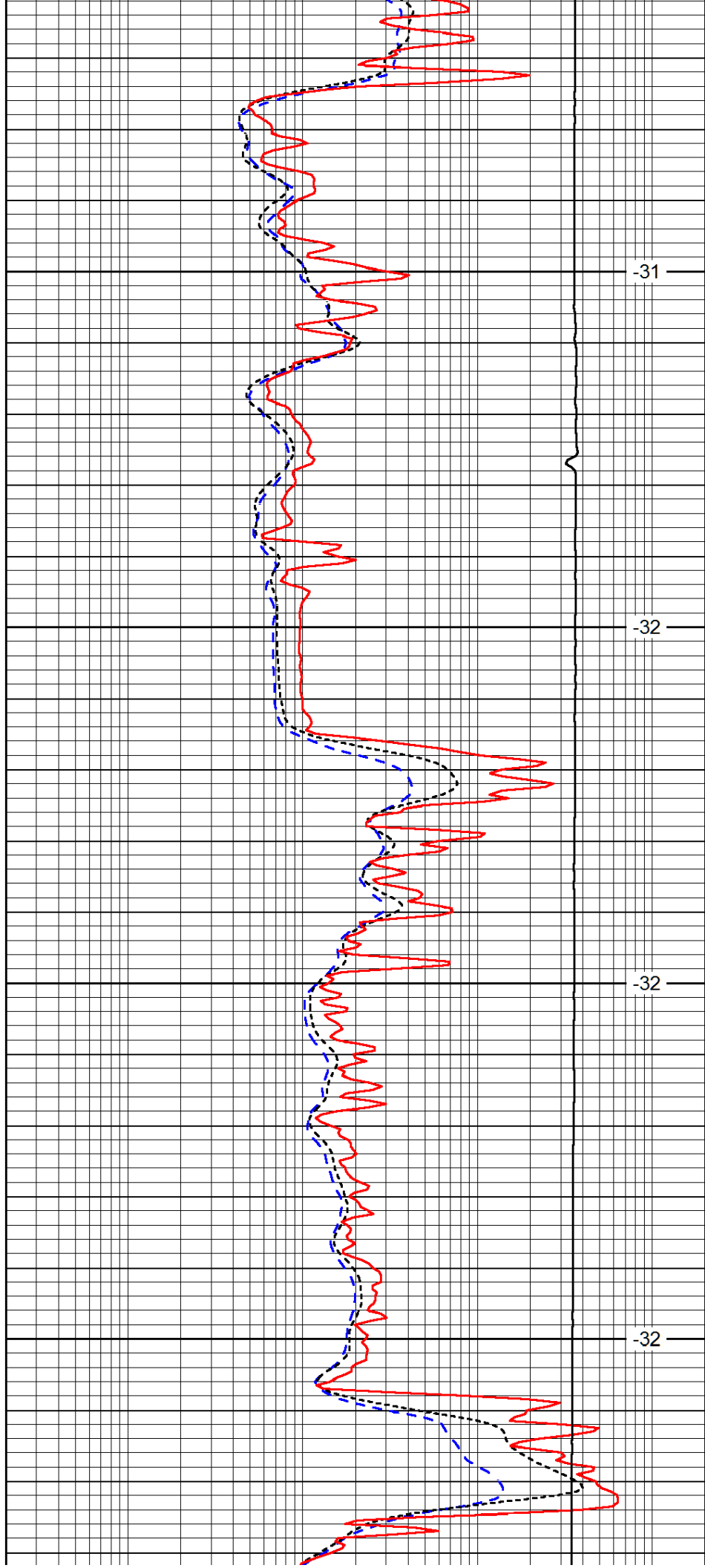


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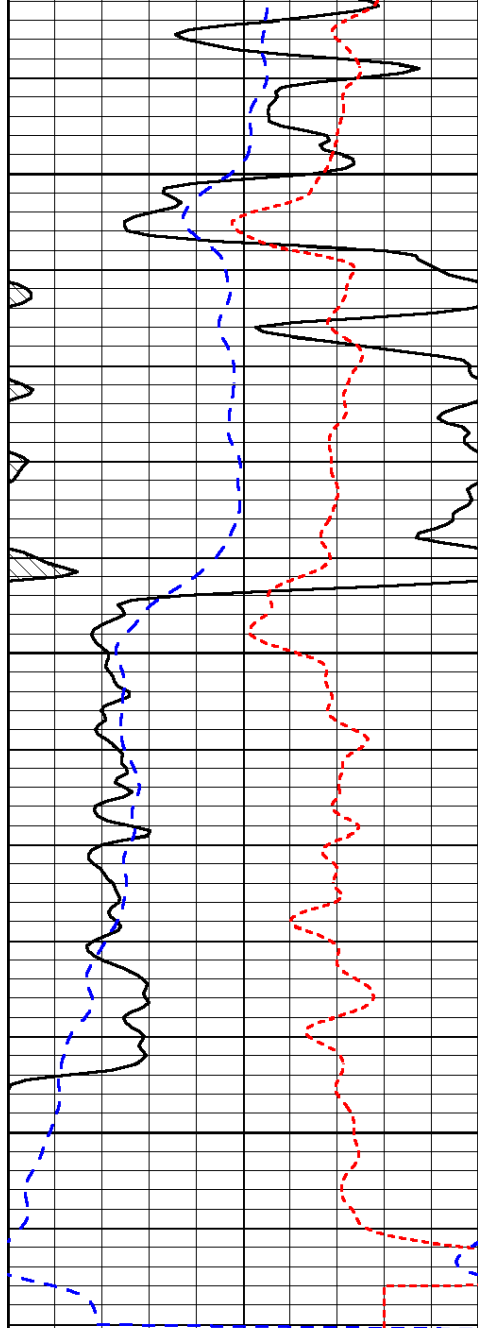


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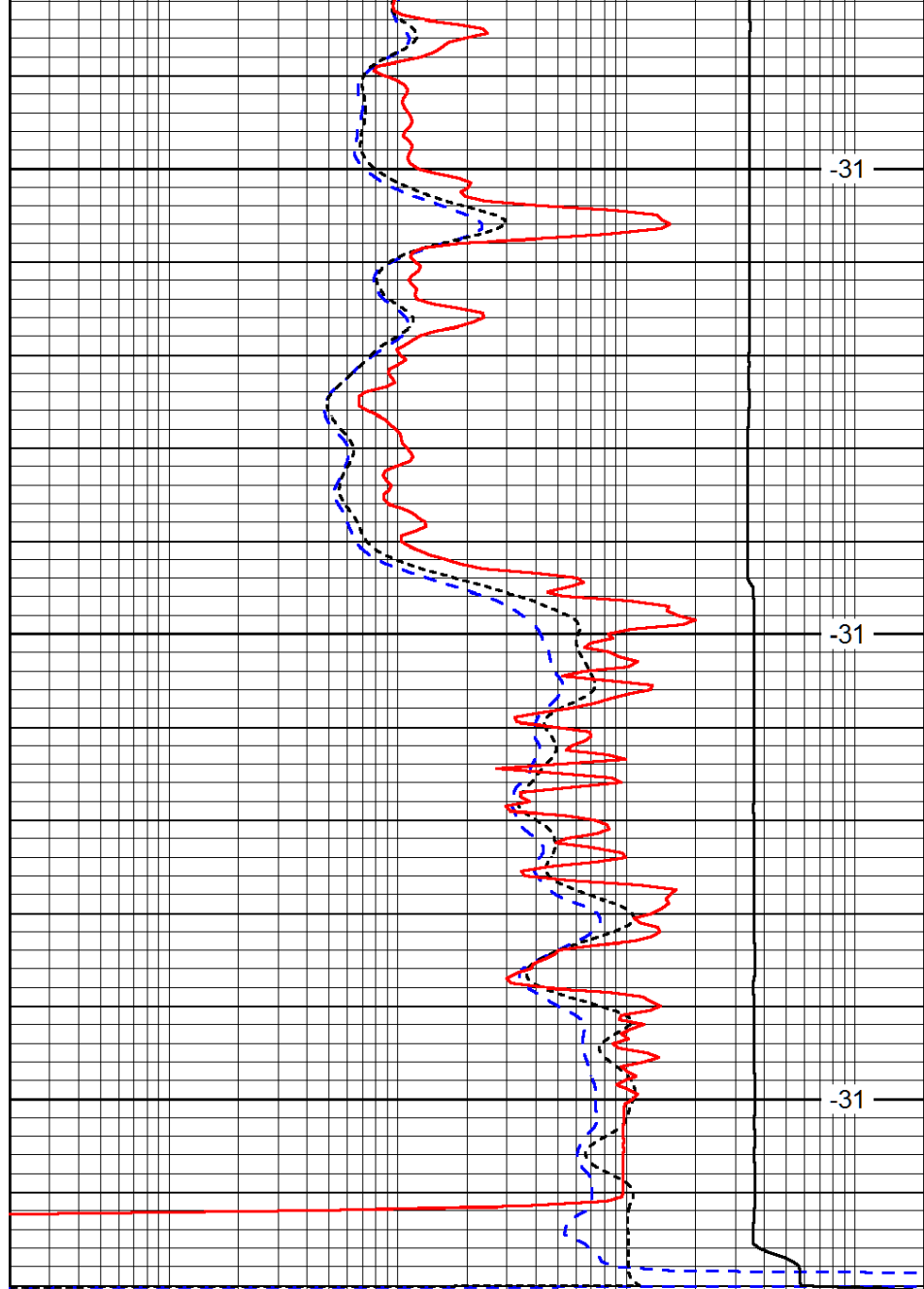


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4100

4150

4200



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)