



Pioneer Energy Services

Dual Induction Log

15-007-23,981-00-00

Company Indian Oil Company, Inc.
Well Helen Mae # 2
Field Stranathan
County Barber **State** Kansas
Location S/2 NE SE SE
 835' FSL & 330' FEL
Sec: 10 **Twp:** 35S **Rge:** 12W
Other Services
 CNL/CDL

Permanent Datum Ground Level Elevation 1381
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing
Elevation
 K.B. 1392
 D.F. 1381
 G.L. 1381

Date	1/30/2013
Run Number	One
Depth Driller	5080
Depth Logger	5080
Bottom Logged Interval	5079
Top Log Interval	700
Casing Driller	8.625 @ 747
Casing Logger	736
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	4000
Density / Viscosity	9.3 65
pH / Fluid Loss	10.0 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	1.1 @ 58
Rmf @ Meas. Temp	.83 @ 58
Rmc @ Meas. Temp	1.49 @ 58
Source of Rmf / Rmc	Charts
Rm @ BHT	.50 @ 127
Operating Rig Time	2 1/2 Hours
Max Rec. Temp. F	127
Equipment Number	15
Location	Hays
Recorded By	D. Kerr
Witnessed By	Scott Alberg

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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 Log-Tech, Inc.
 (785) 625-3858
 Hardtner KS, 2 /12 East to Roundup RD,
 1/2 South, West Into

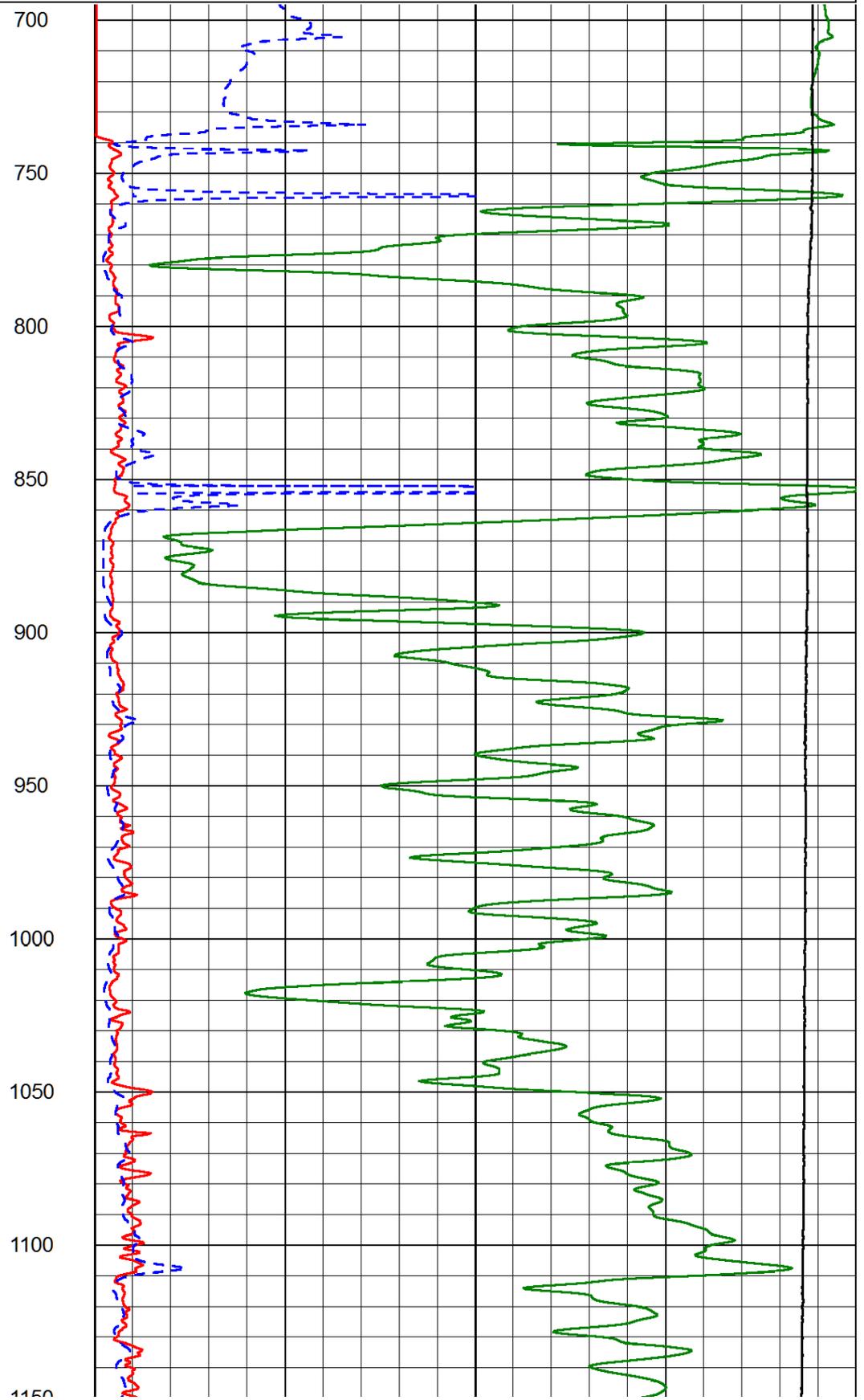
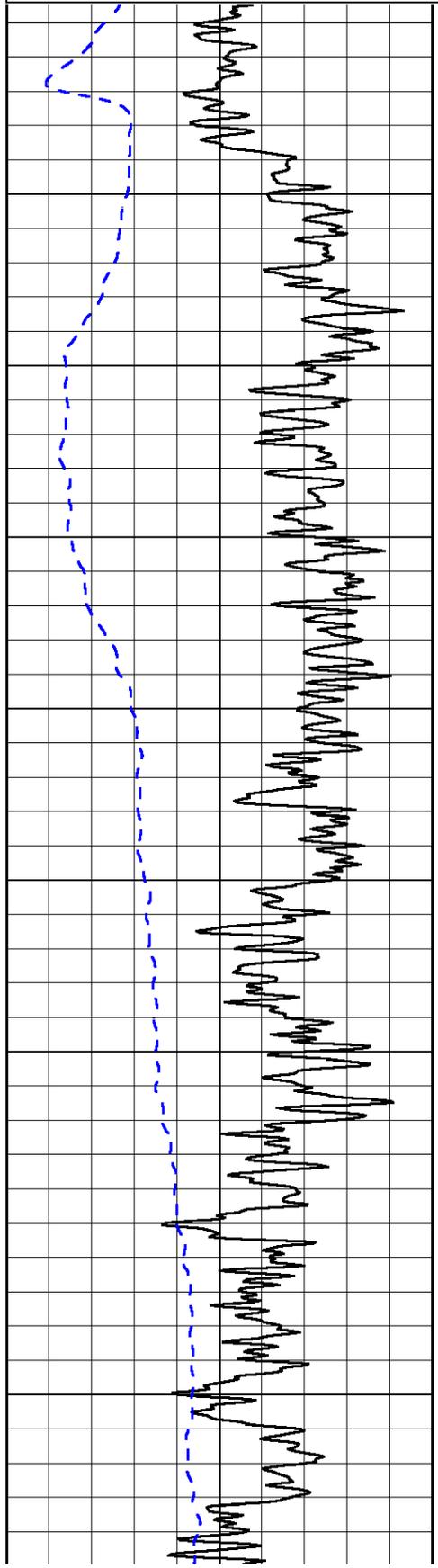
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 Dataset Pathname: DIL/indstk
 Presentation Format: dil2in
 Dataset Creation: Thu Jan 31 00:22:03 2013
 Charted by: Depth in Feet scaled 1:600

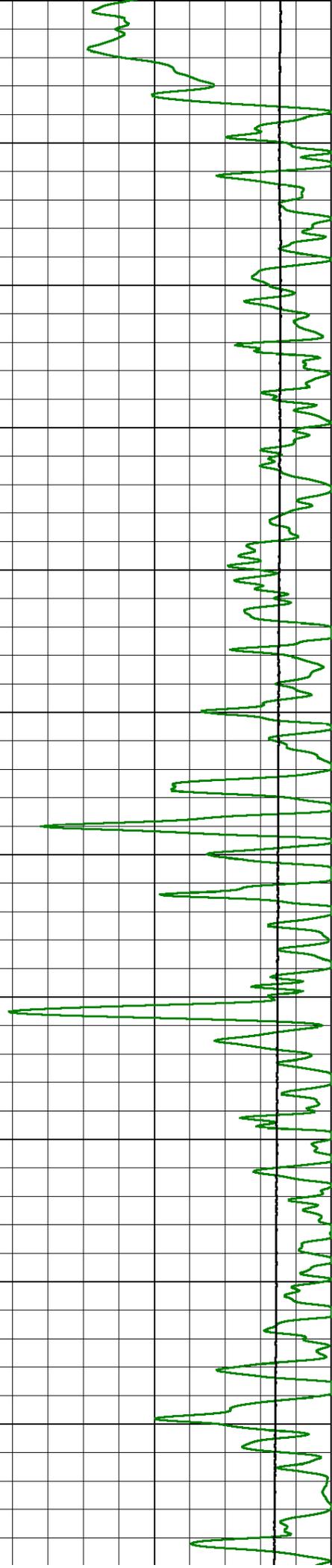
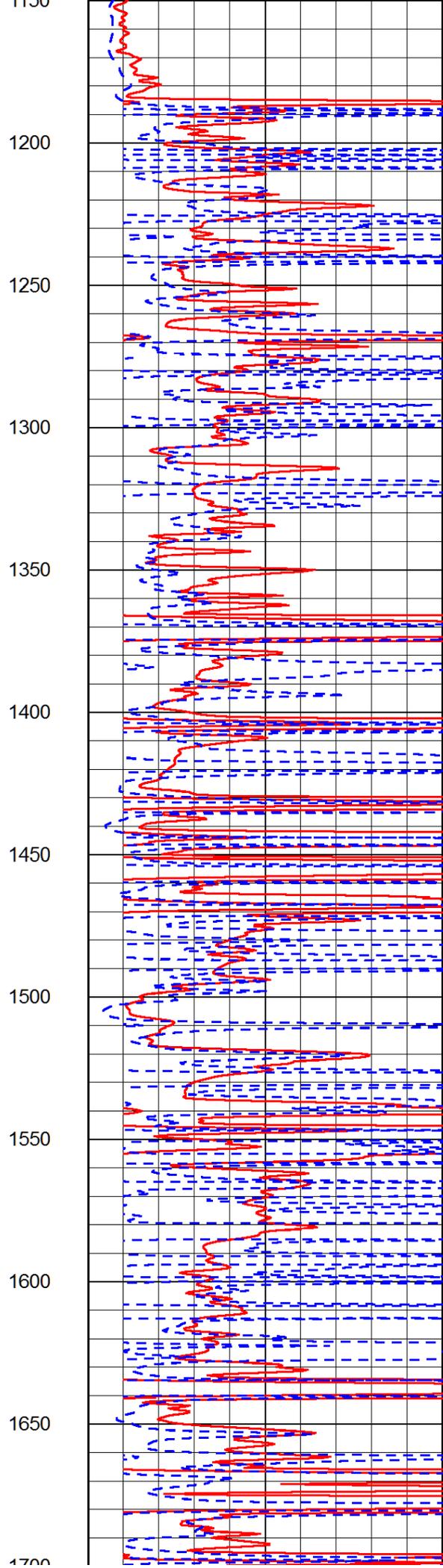
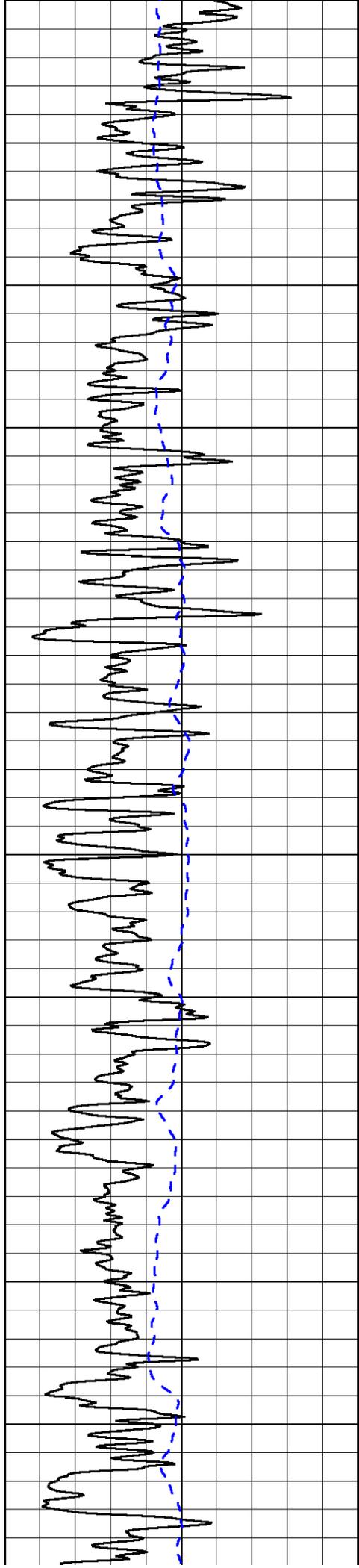
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

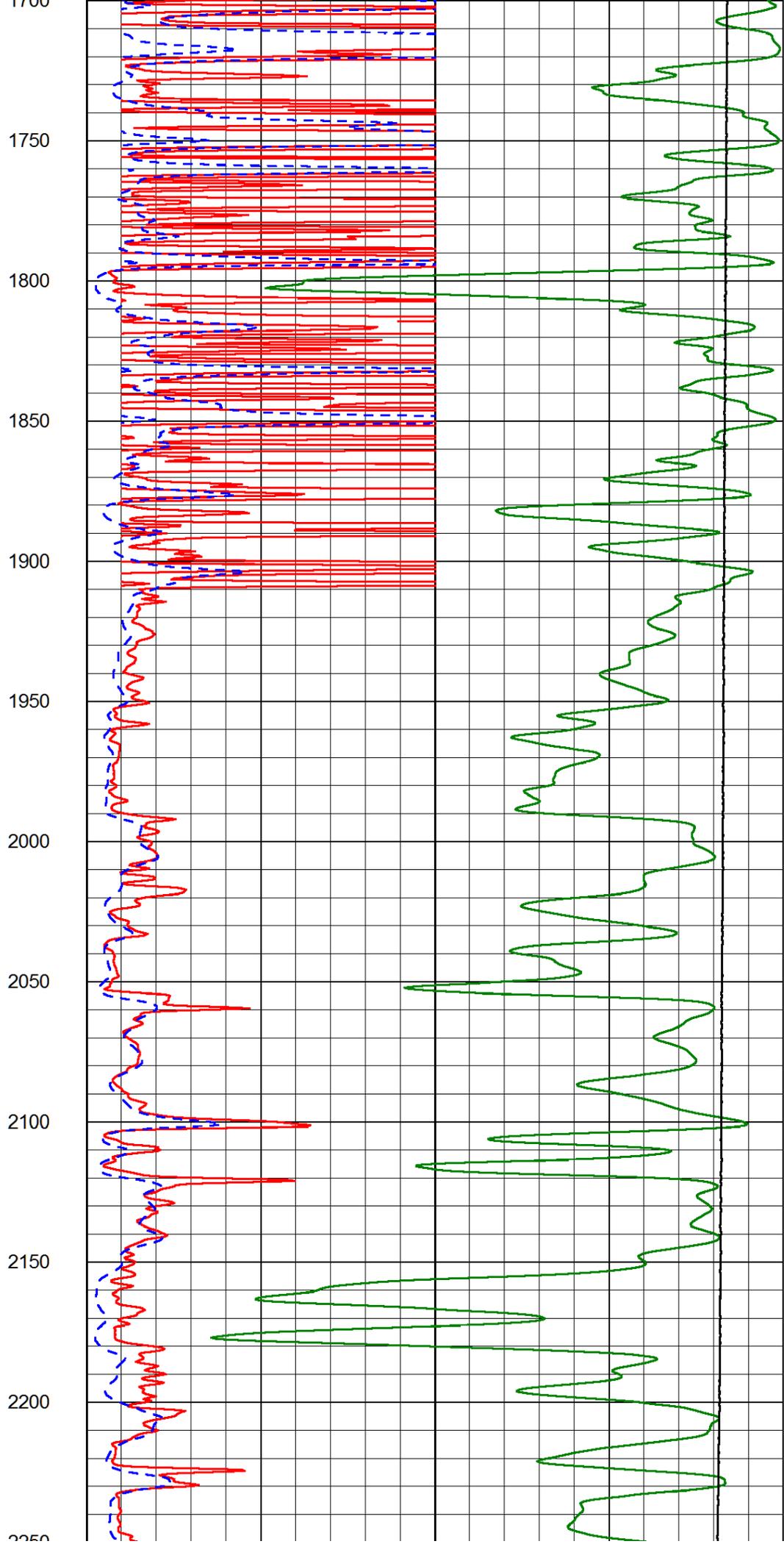
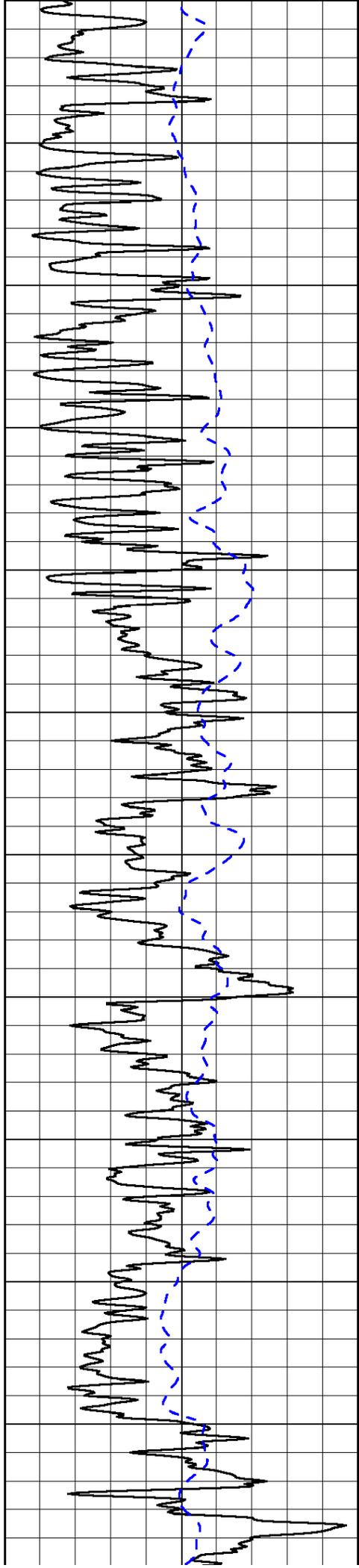
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50

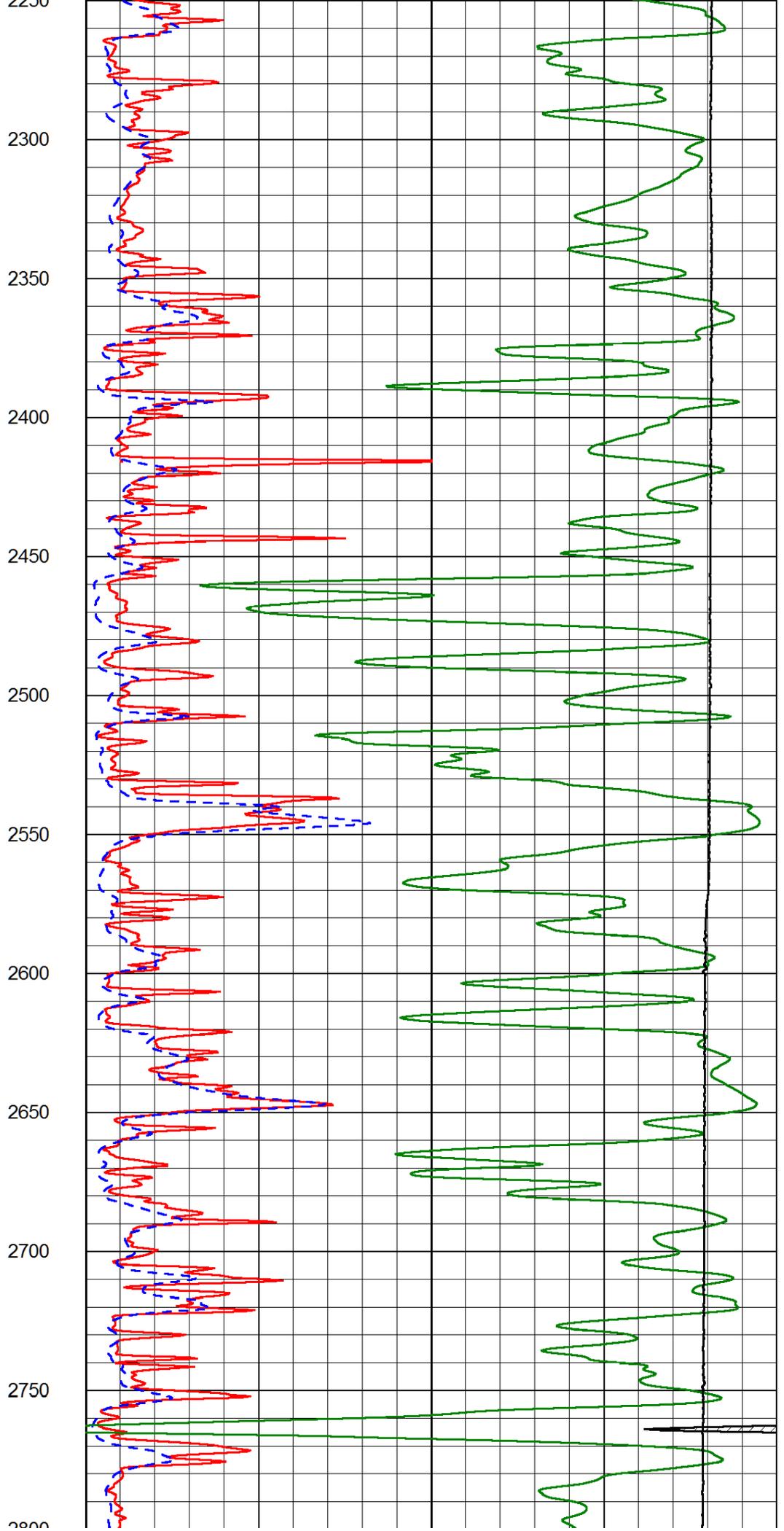
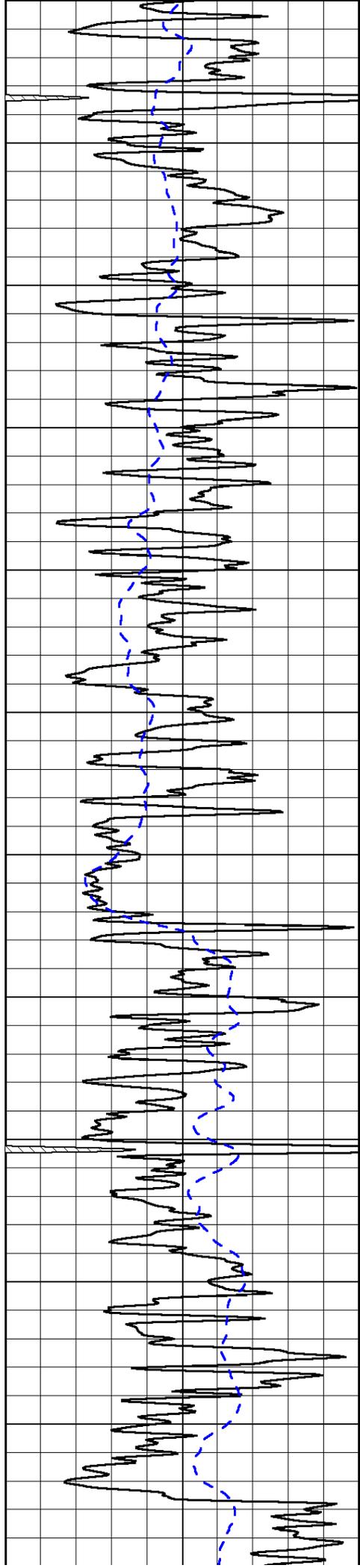
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

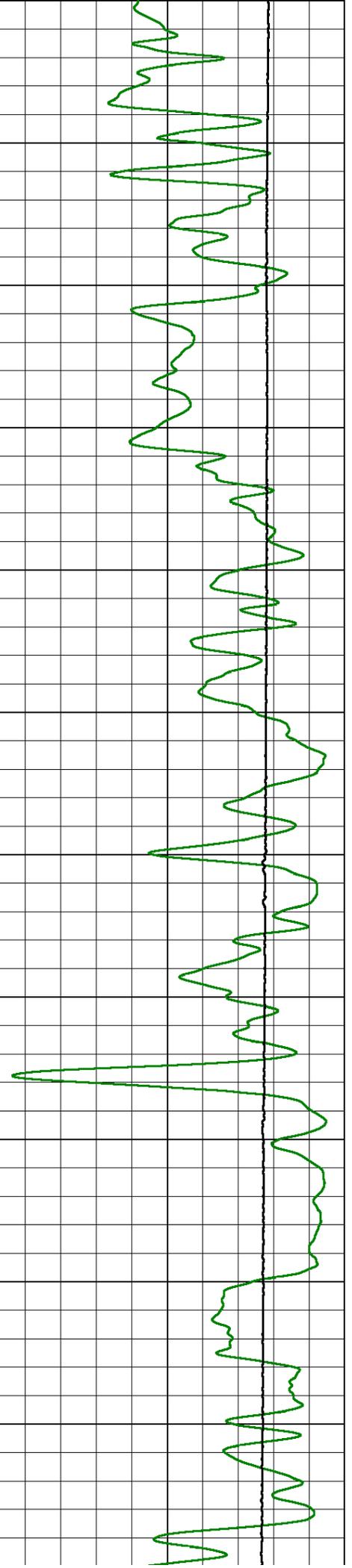
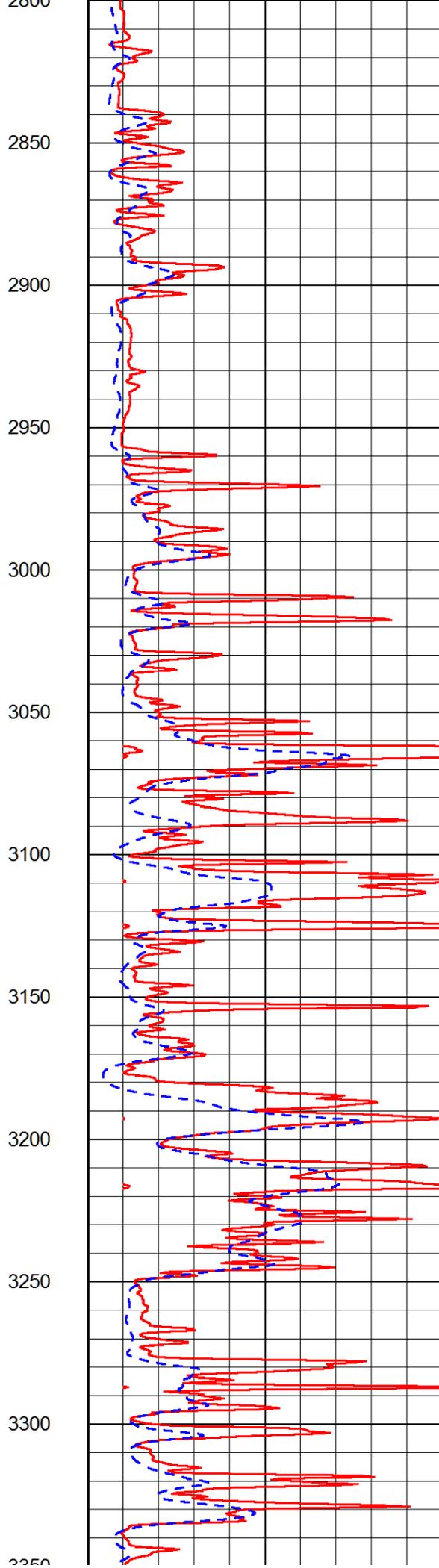
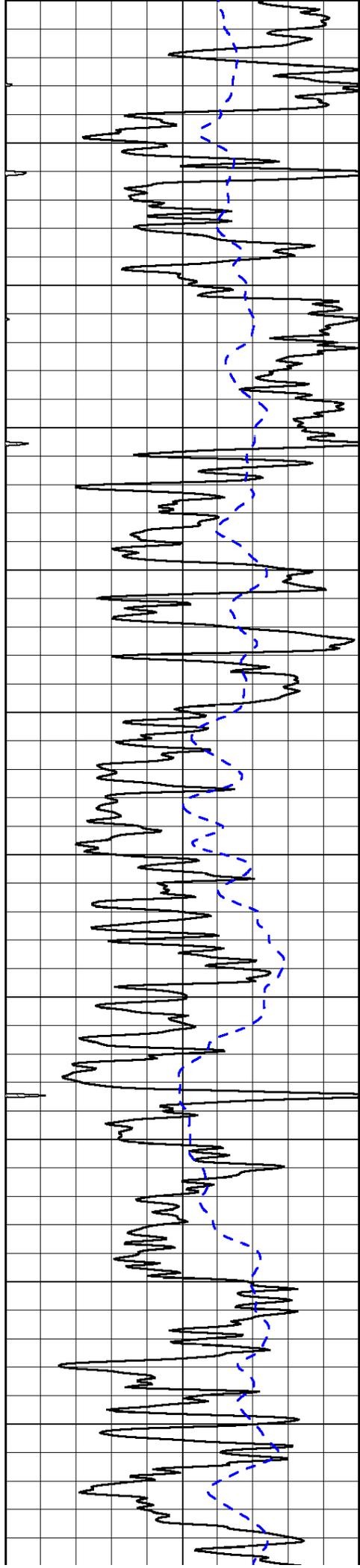
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

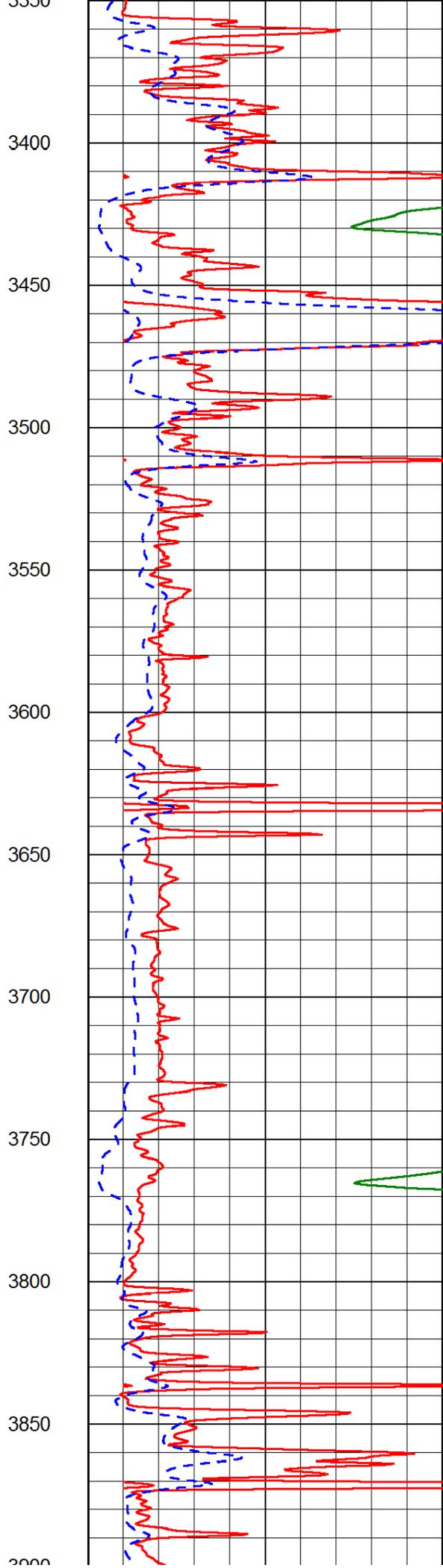
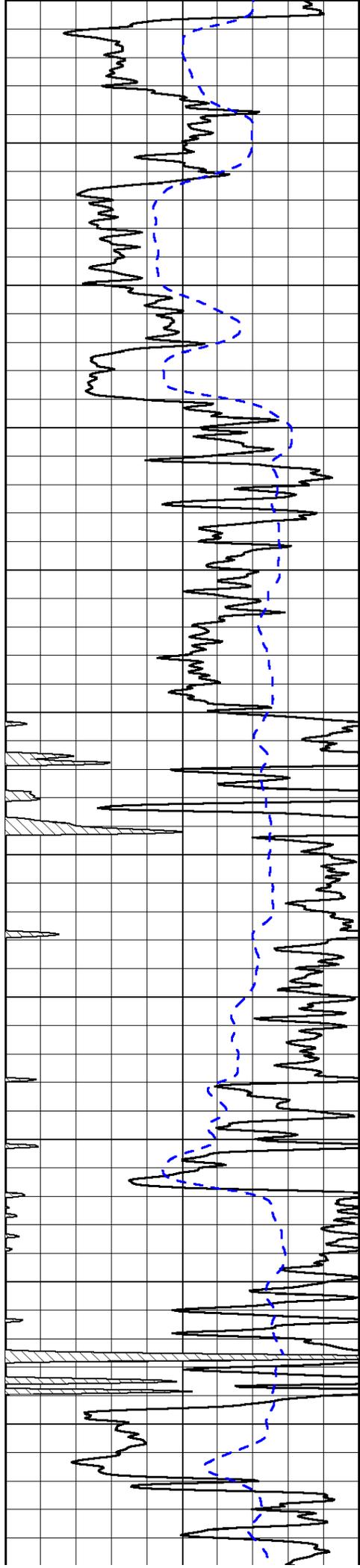


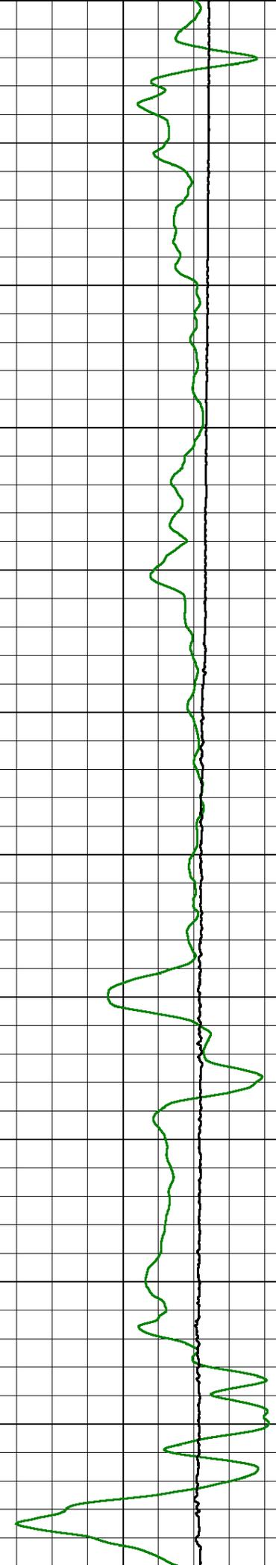
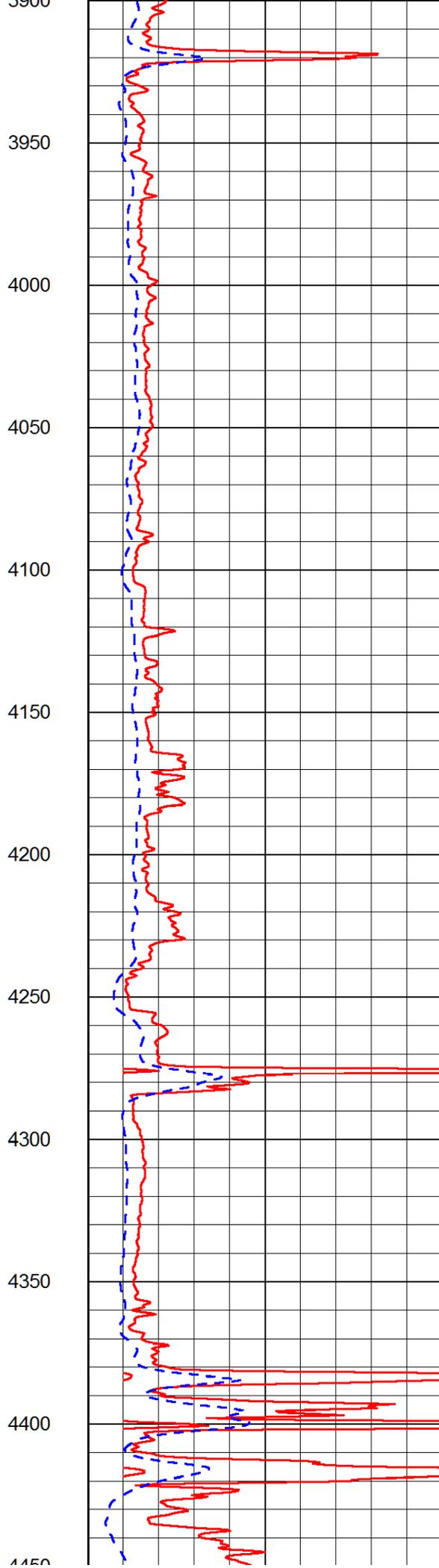
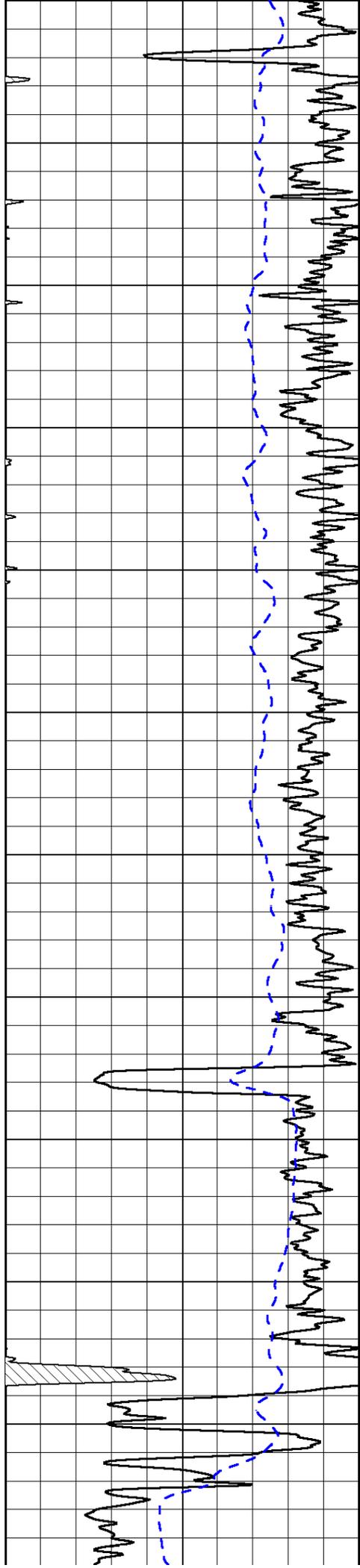


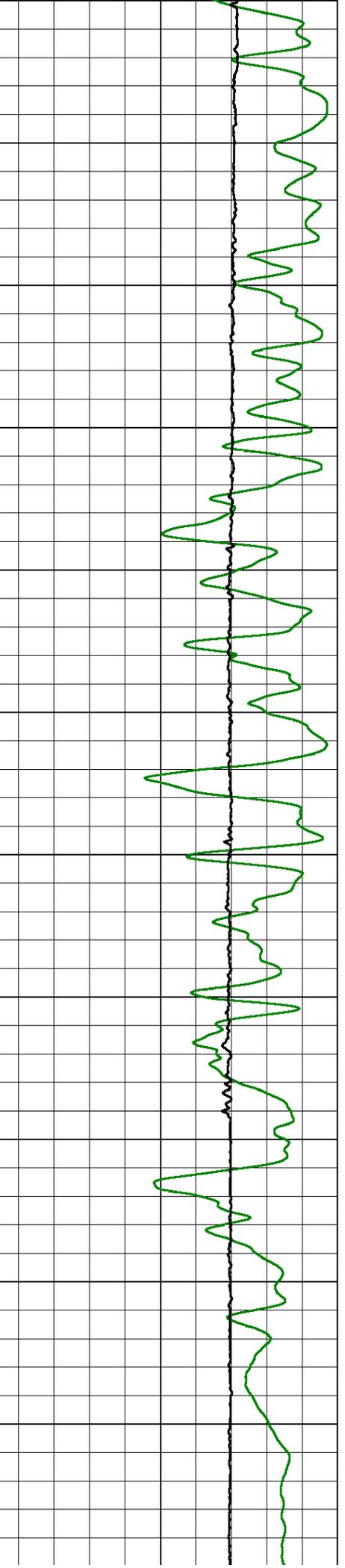
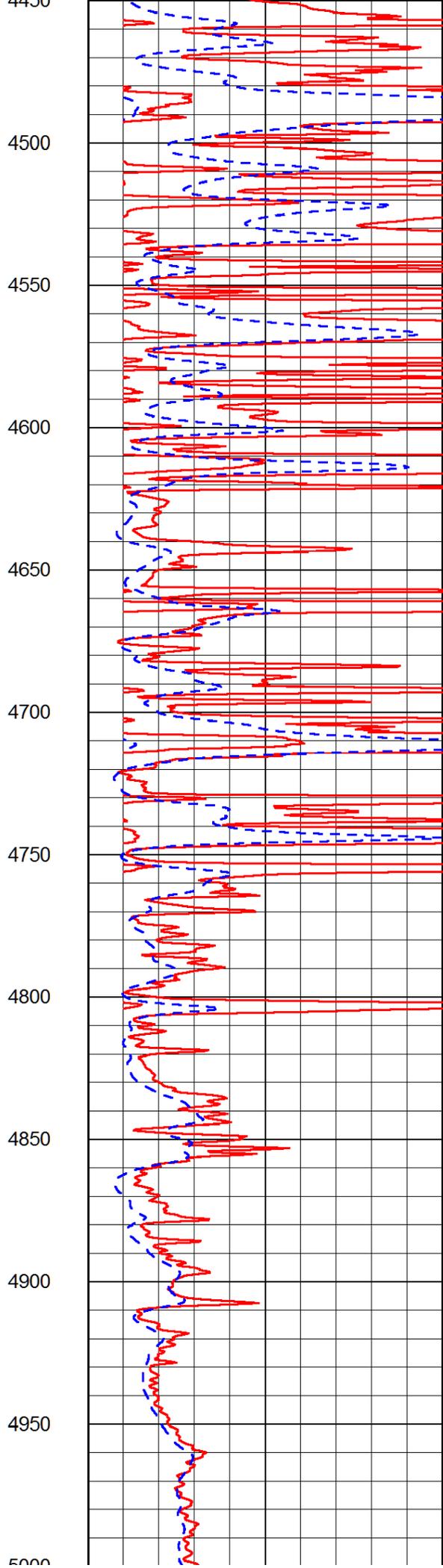
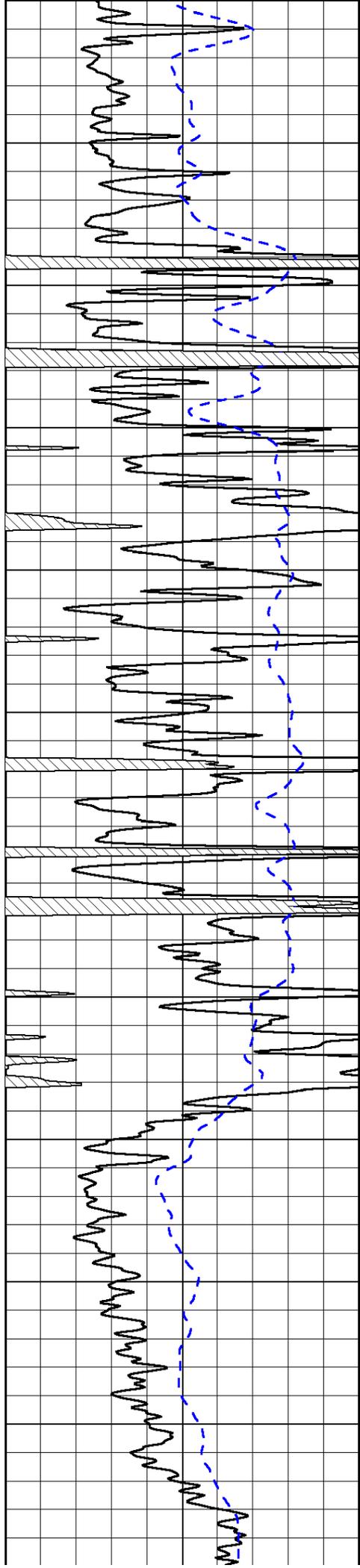


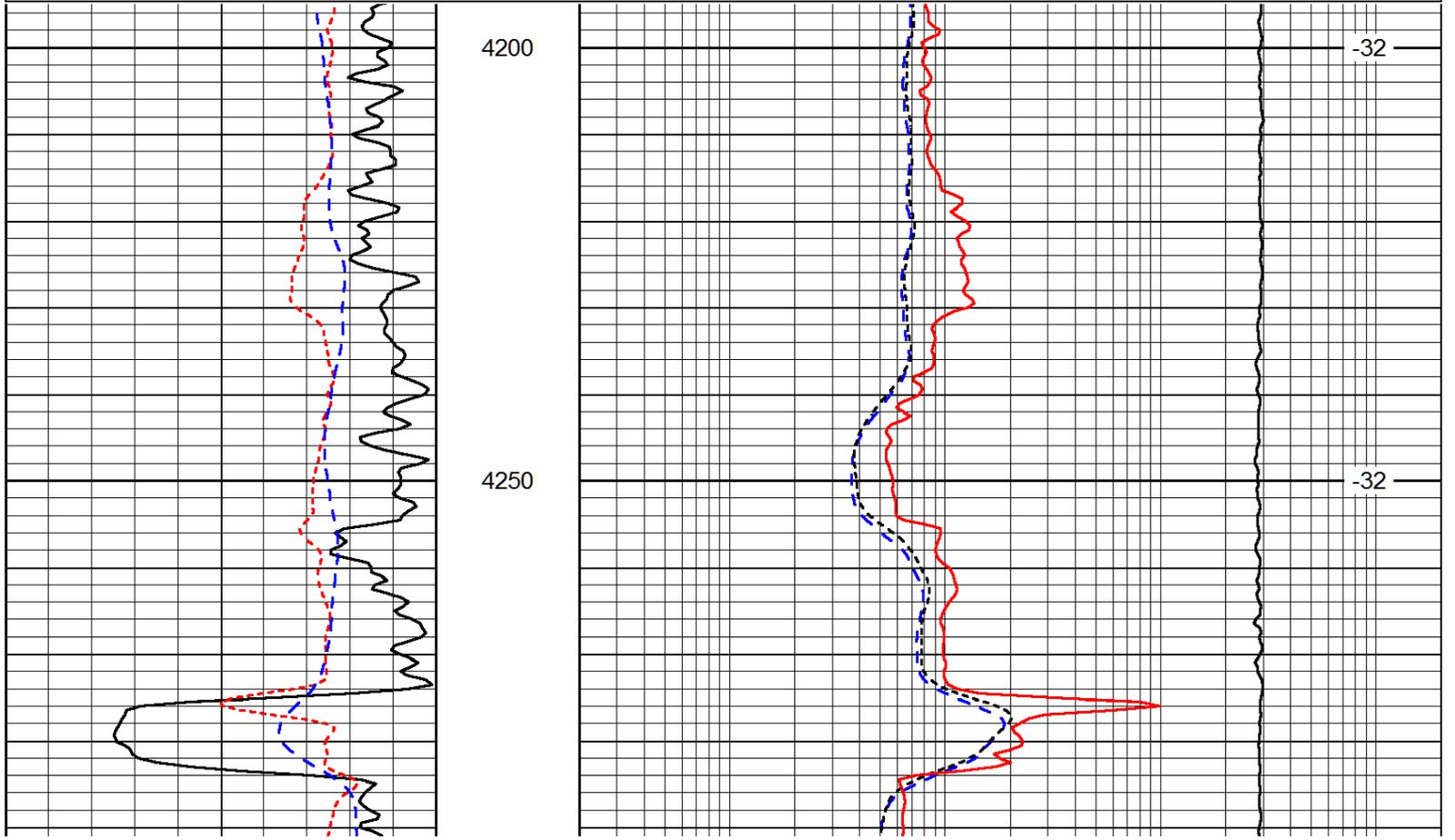
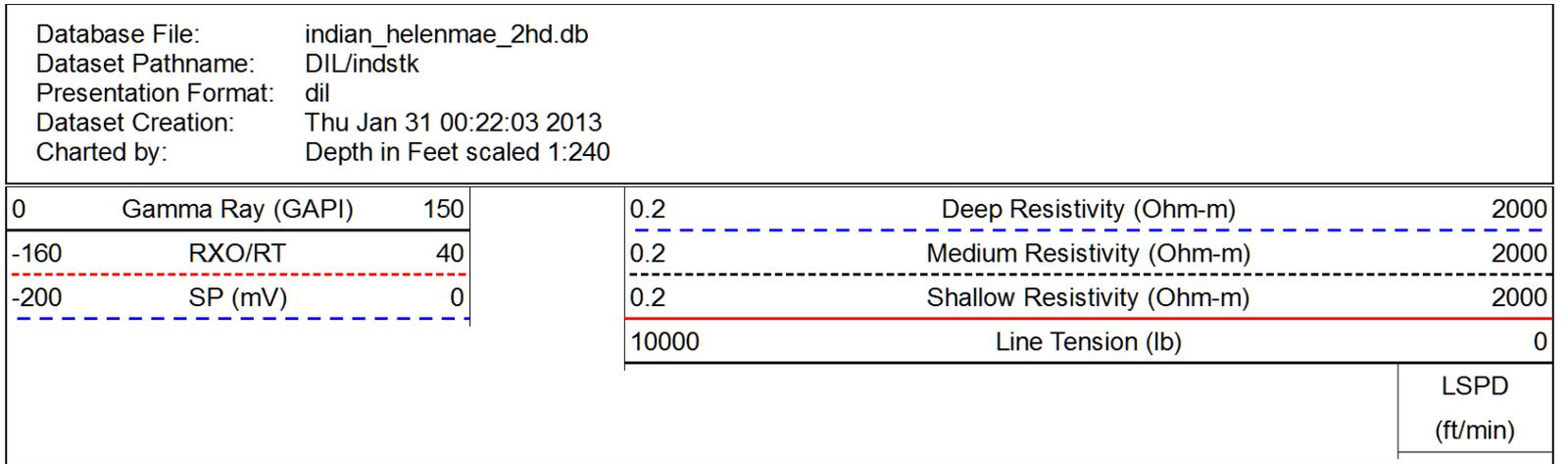
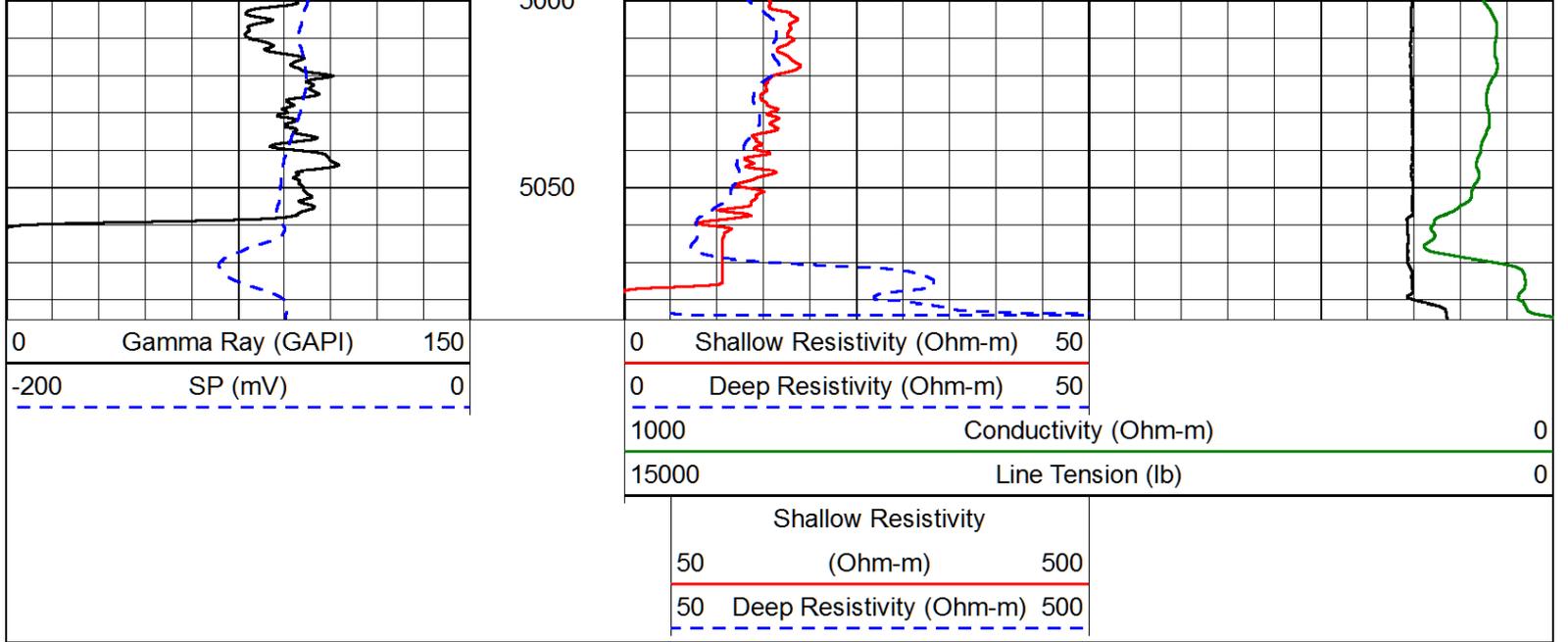


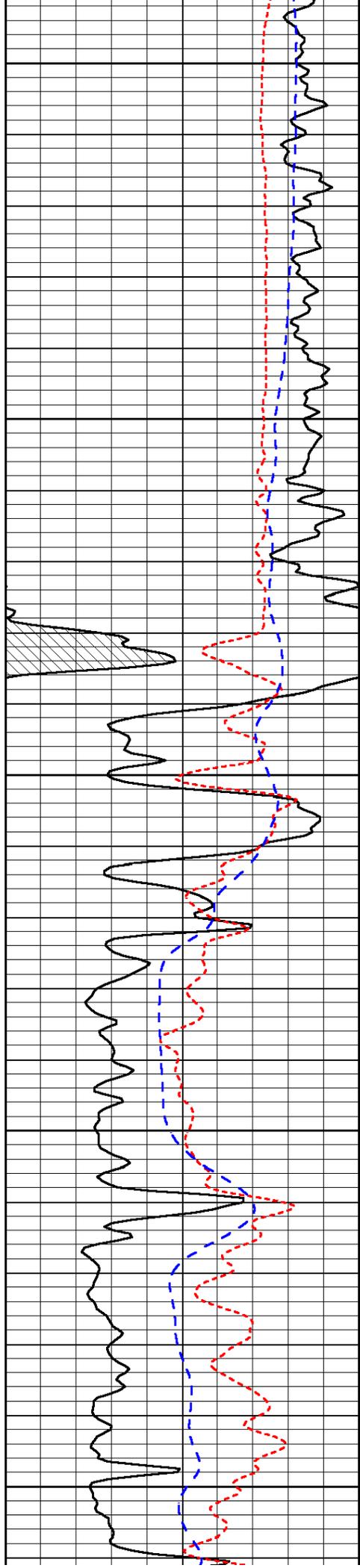












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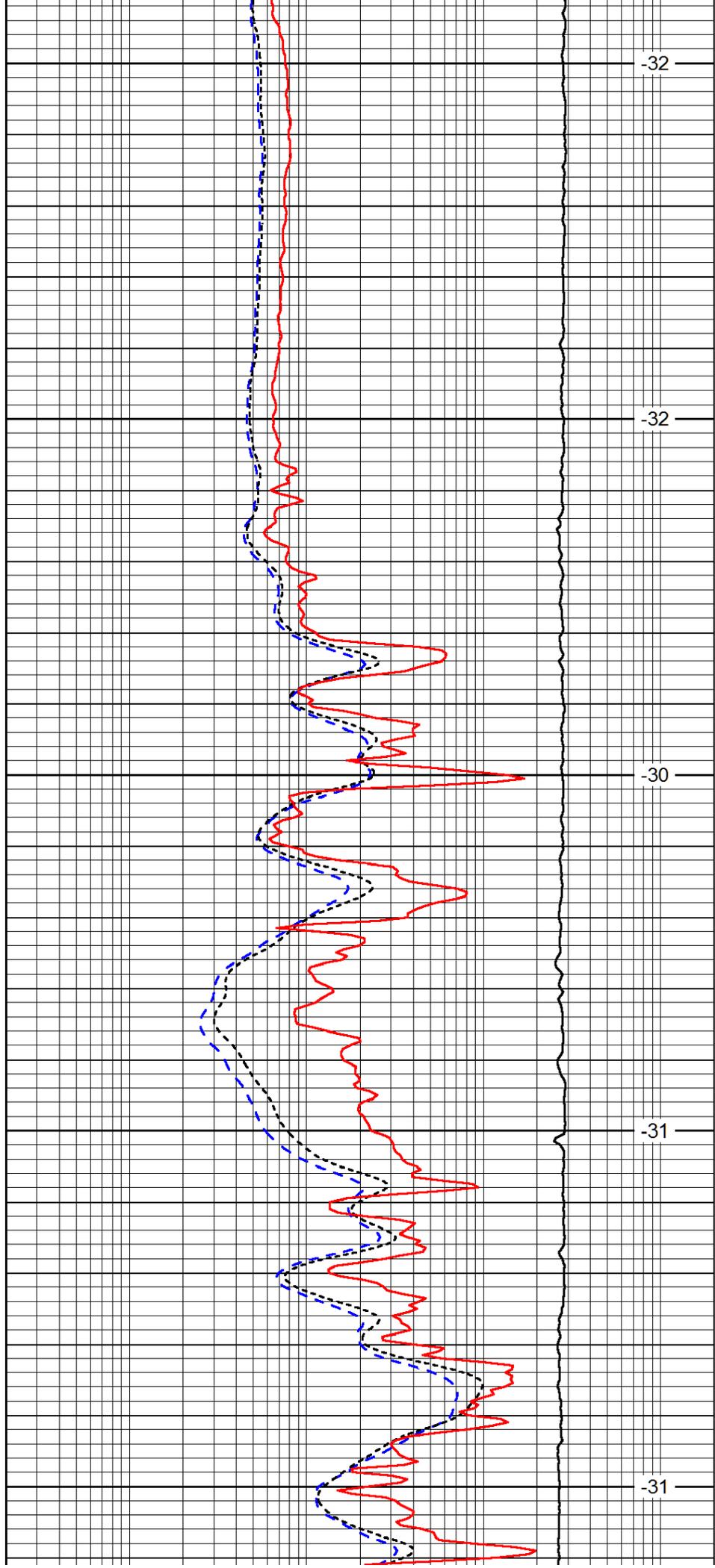
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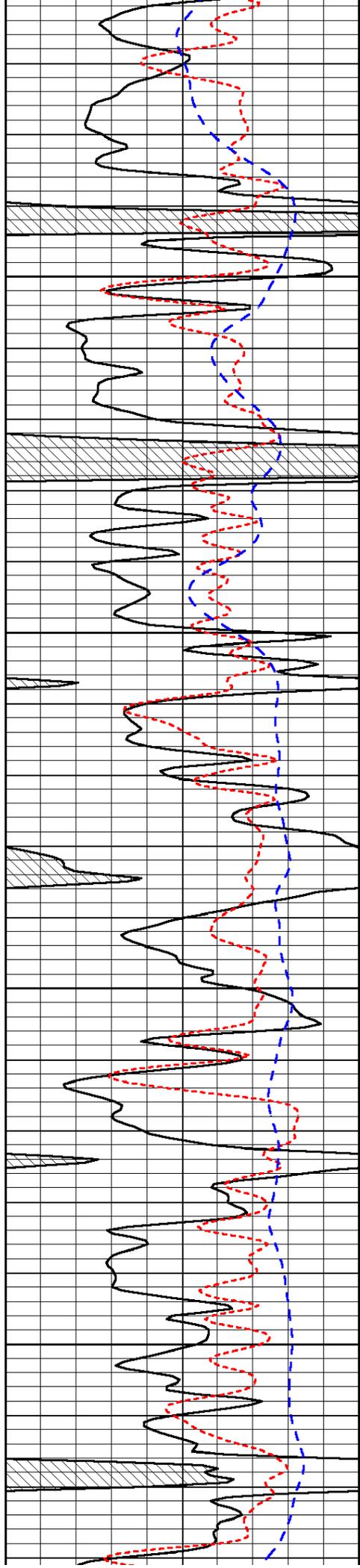
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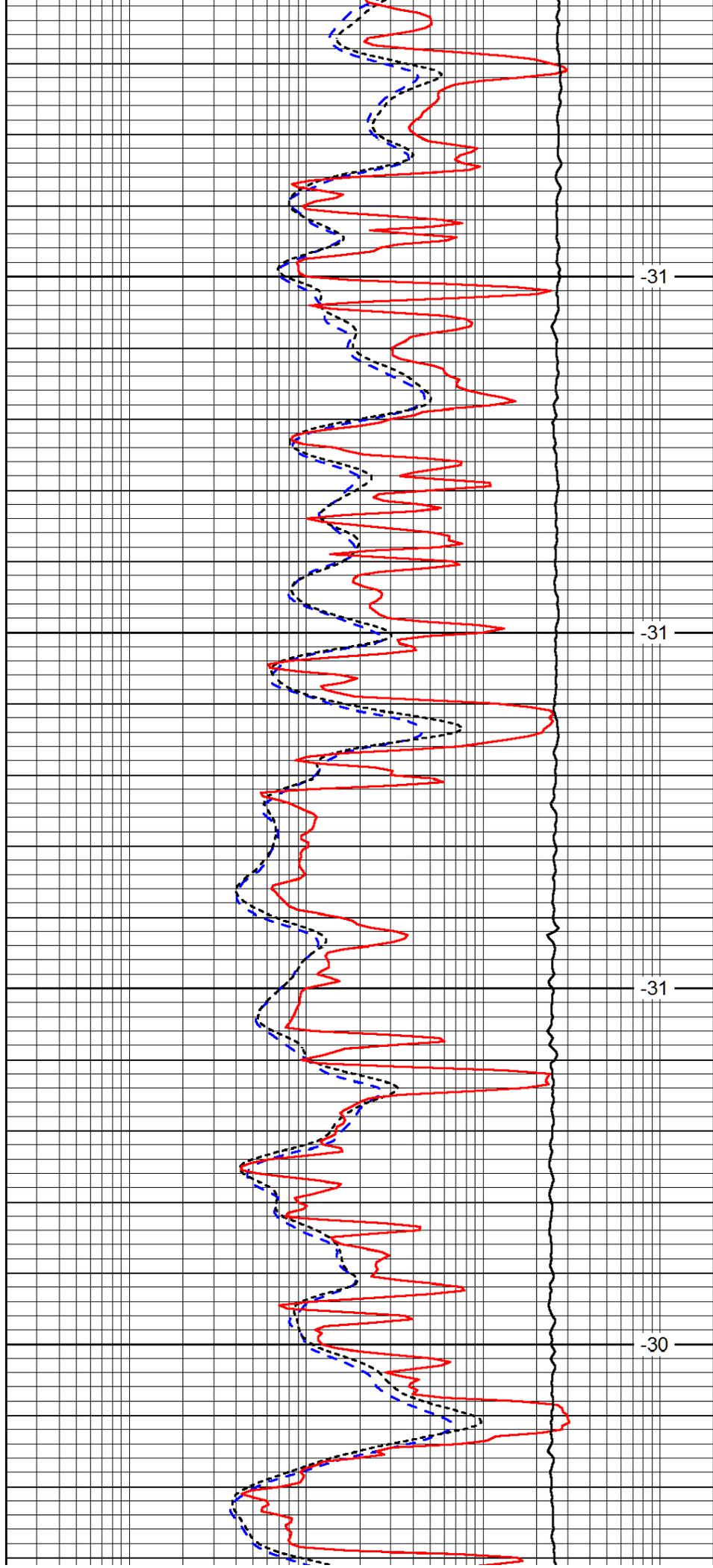


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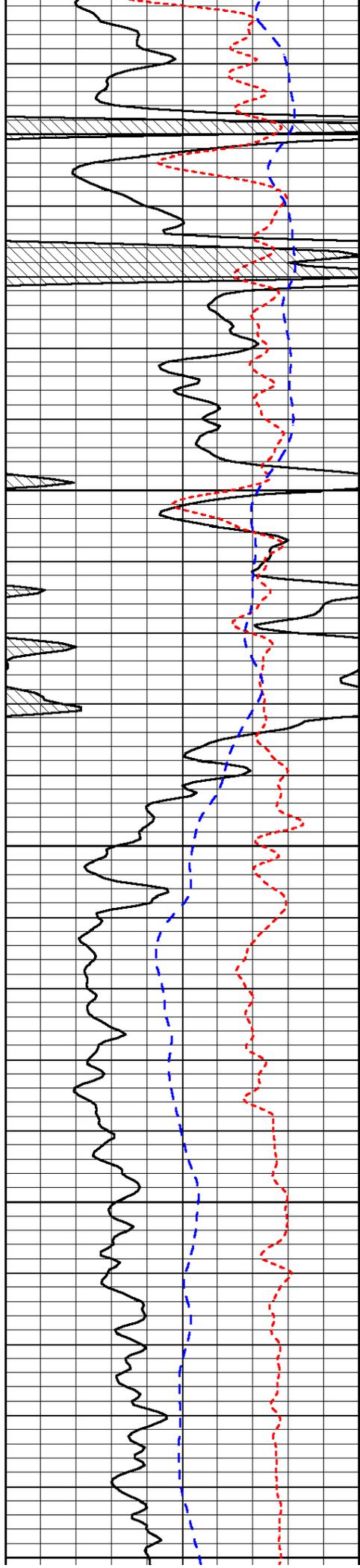


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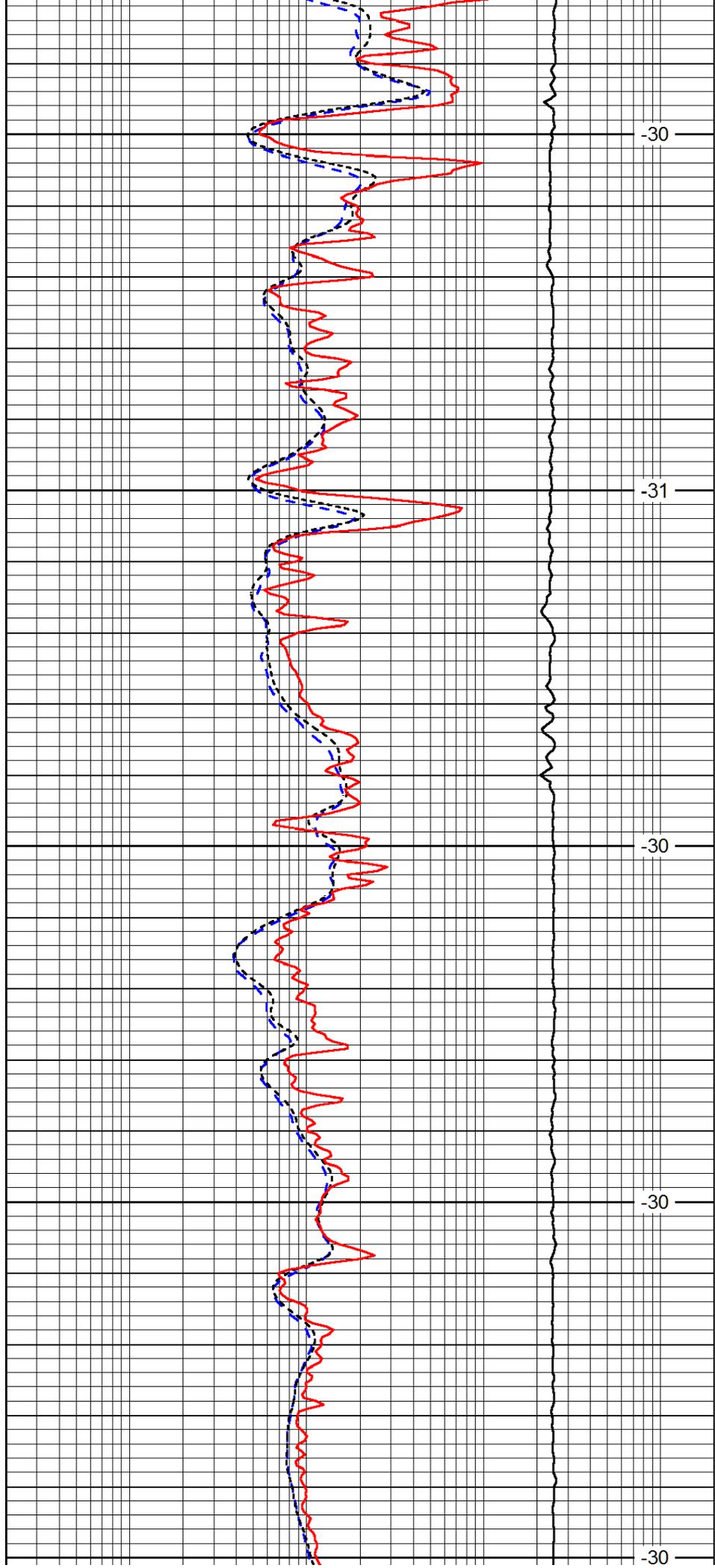
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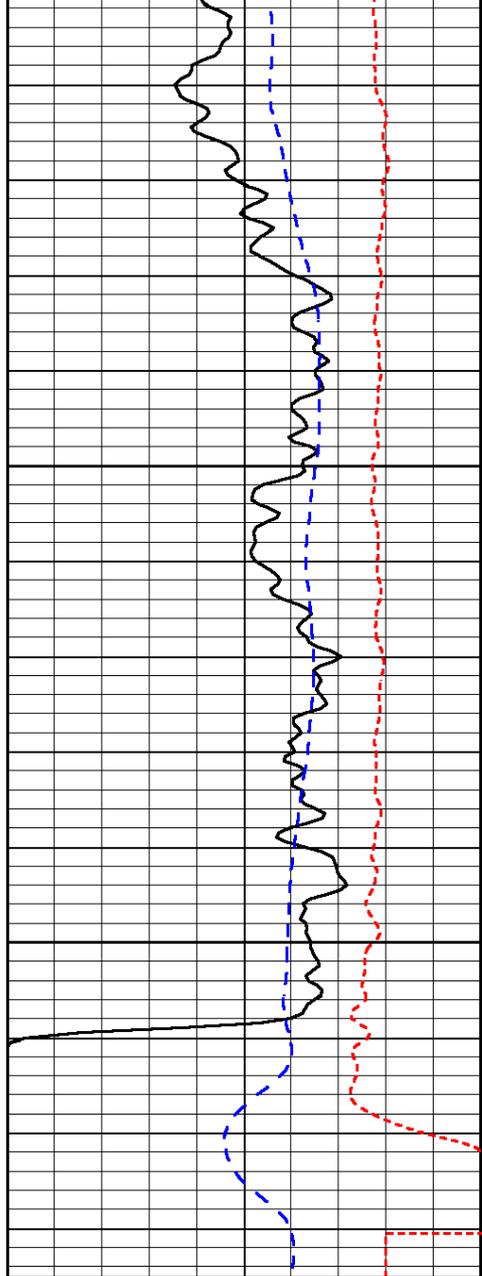
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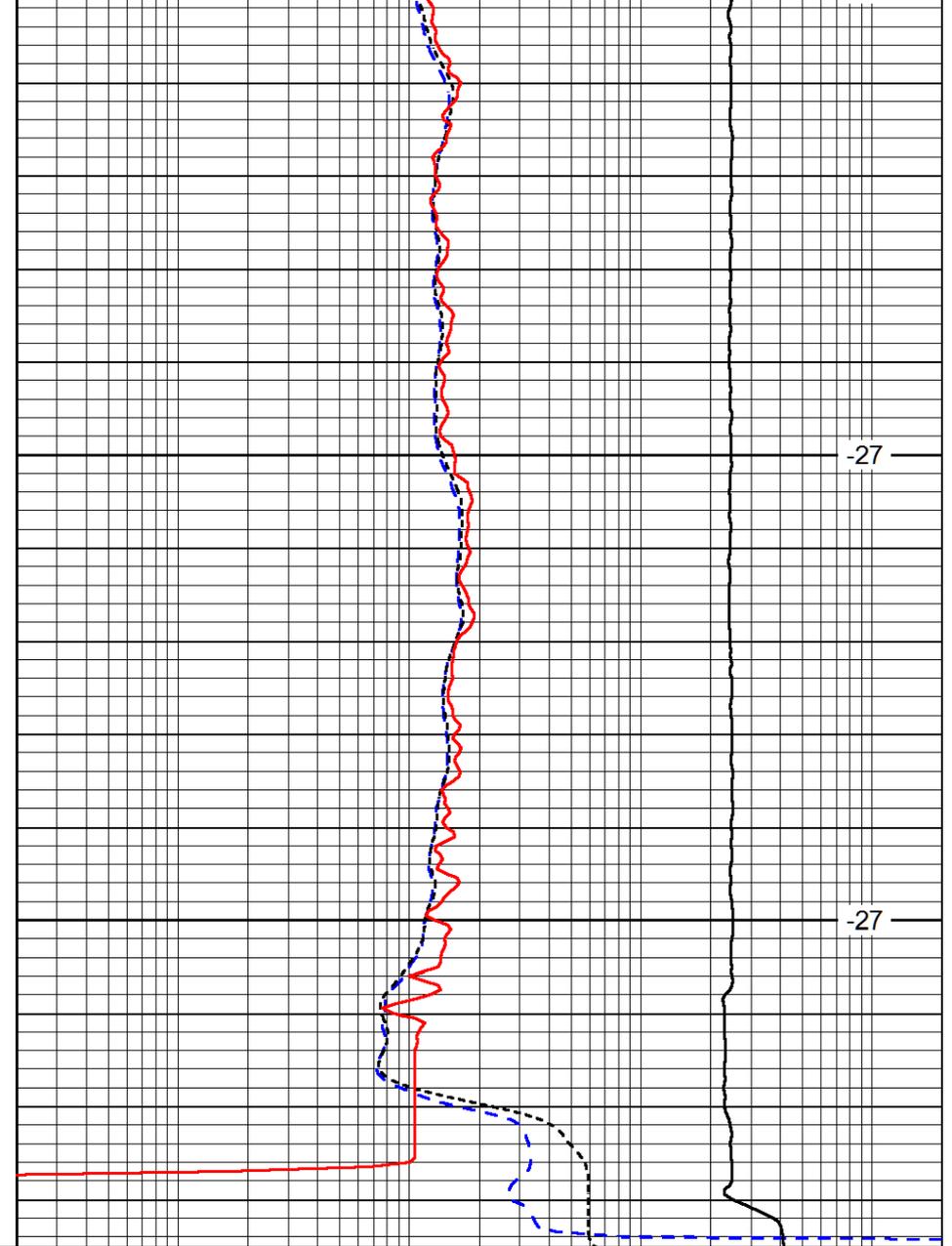
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

5000

5050



-27

-27

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)