



Pioneer Energy Services

Dual Induction Log

API No.	Company Indian Oil Company		
	Well Brad #1		
	Field Hardtner		
	County Barber	State	Kansas
15-007-24,250-00-00	Location	S/2 SE SE 330' FSL & 660' FEL	
	Sec: 6	Twp: 35S	Rge: 12W
	Permanent Datum	Ground Level	Elevation 1410
	Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum
	Drilling Measured From	Kelly Bushing	K.B. 1421 D.F. 1410 G.L. 1410
Date		11/17/2014	
Run Number		One	
Depth Driller		5300	
Depth Logger		5303	
Bottom Logged Interval		5302	
Top Log Interval		250	
Casing Driller		8.625 @ 265	
Casing Logger		259	
Bit Size		7.875	
Type Fluid in Hole		Chemical	
Salinity, ppm CL		3000	
Density / Viscosity		9.1 43	
pH / Fluid Loss		10.5 9.6	
Source of Sample		Flowline	
Rm @ Meas. Temp		0.42 @ 64	
Rmf @ Meas. Temp		0.32 @ 64	
Rmc @ Meas. Temp		0.57 @ 64	
Source of Rmf / Rmc		Charts	
Rm @ BHT		0.21 @ 129	
Operating Rig Time		2 1/2 Hours	
Max Rec. Temp. F		129	
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

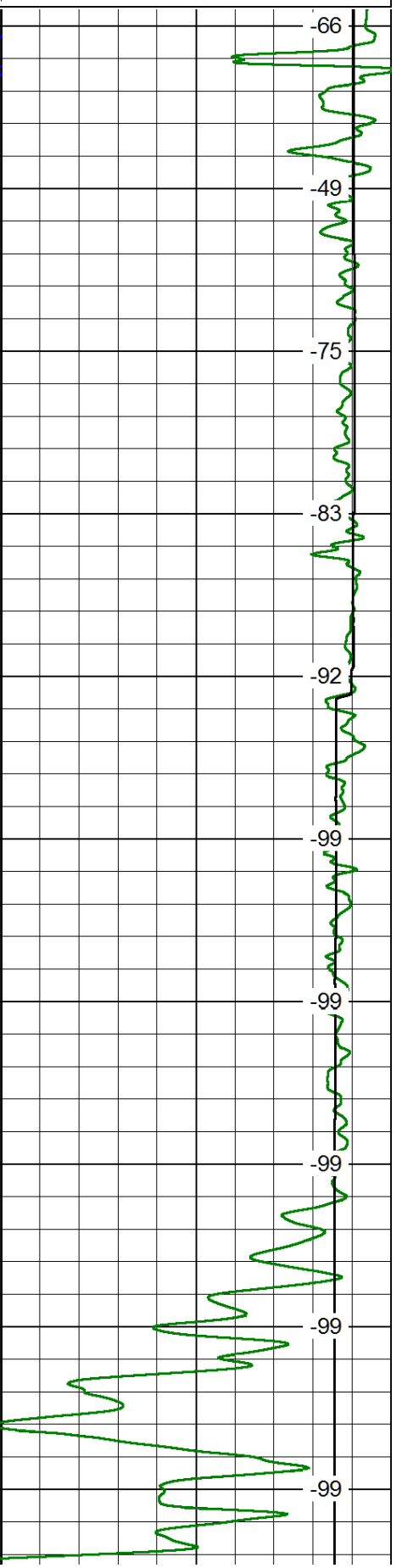
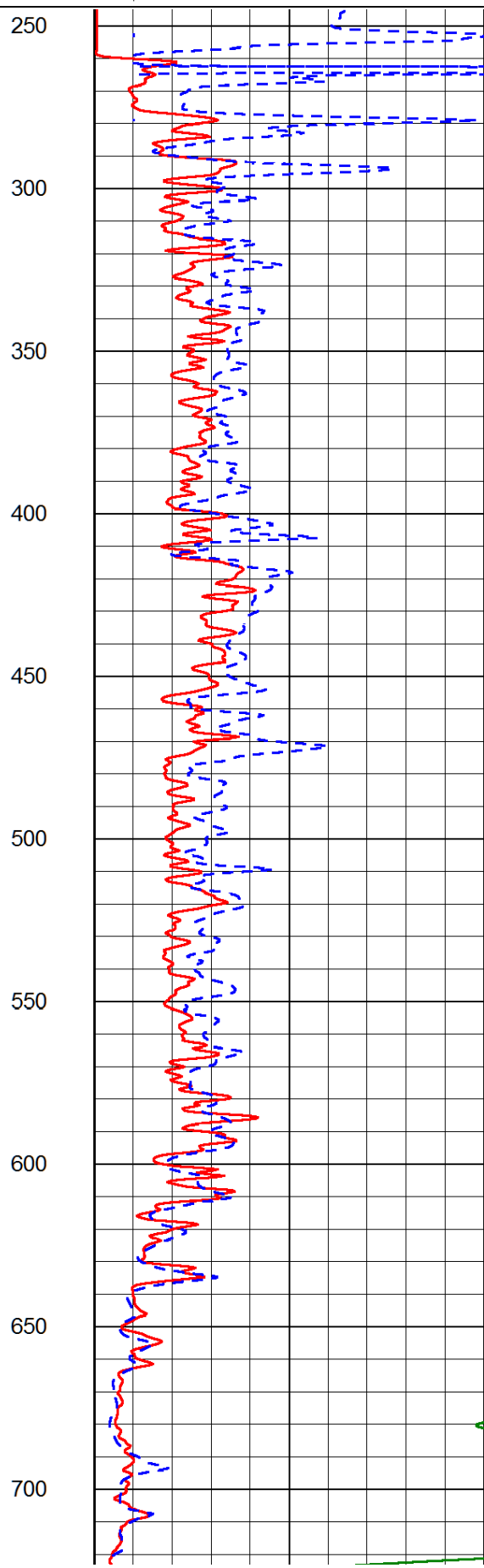
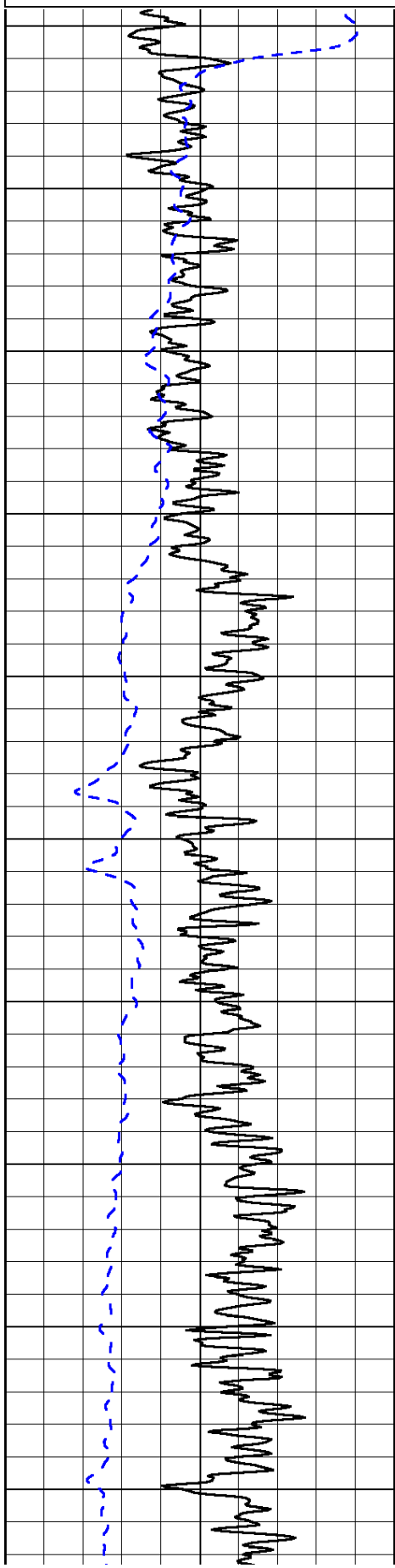
Hardtner KS, 1/2 West on Hackberry ST,
3/4 North and West Into

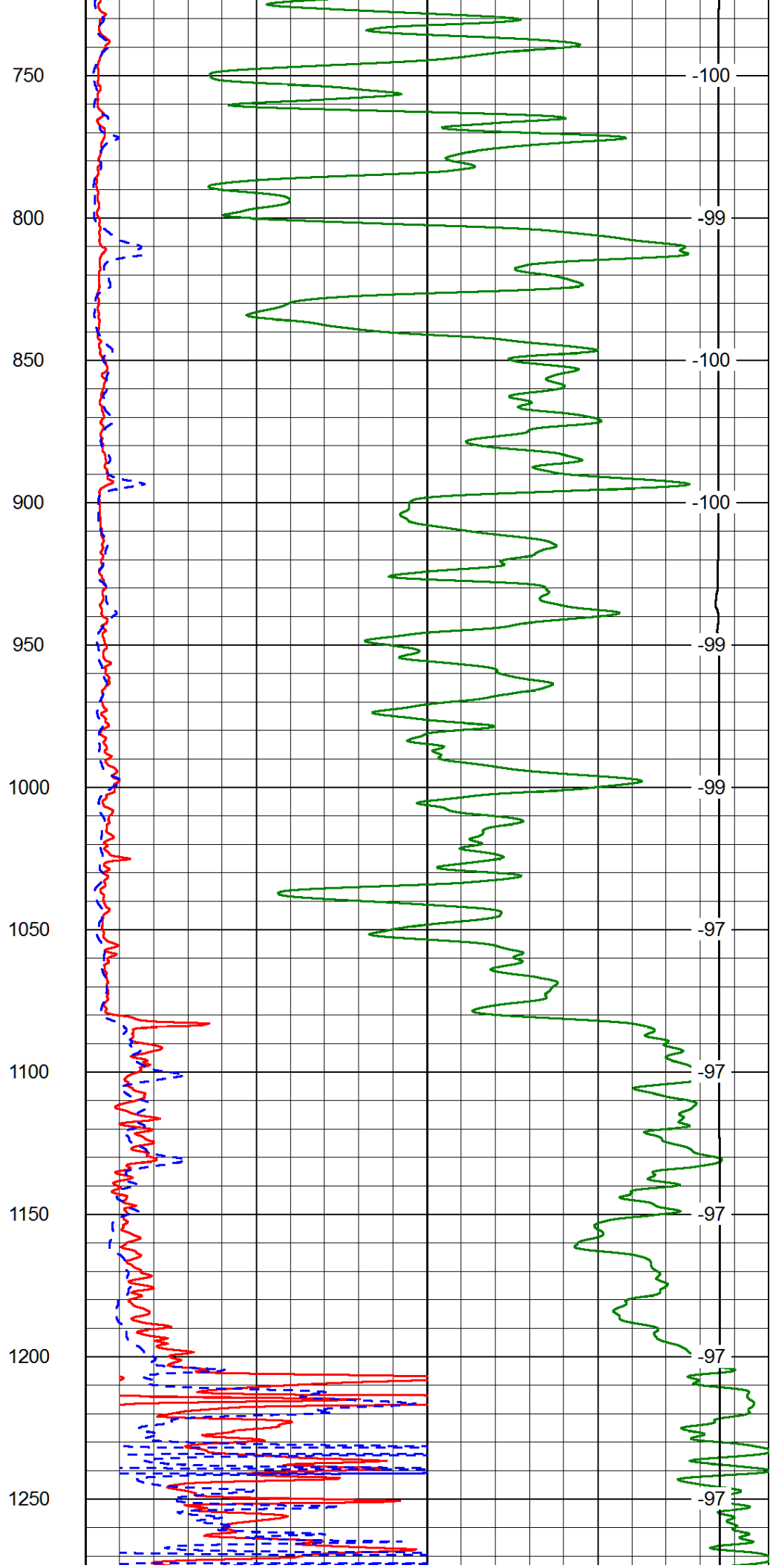
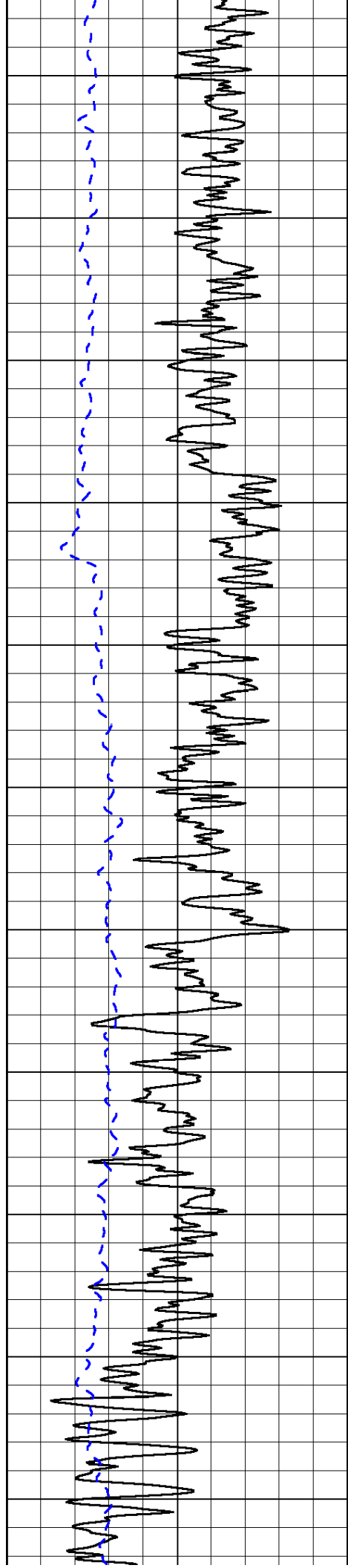
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Presentation Format: dil2in
Dataset Creation: Mon Nov 17 23:42:14 2014
Charted by: Depth in Feet scaled 1:600

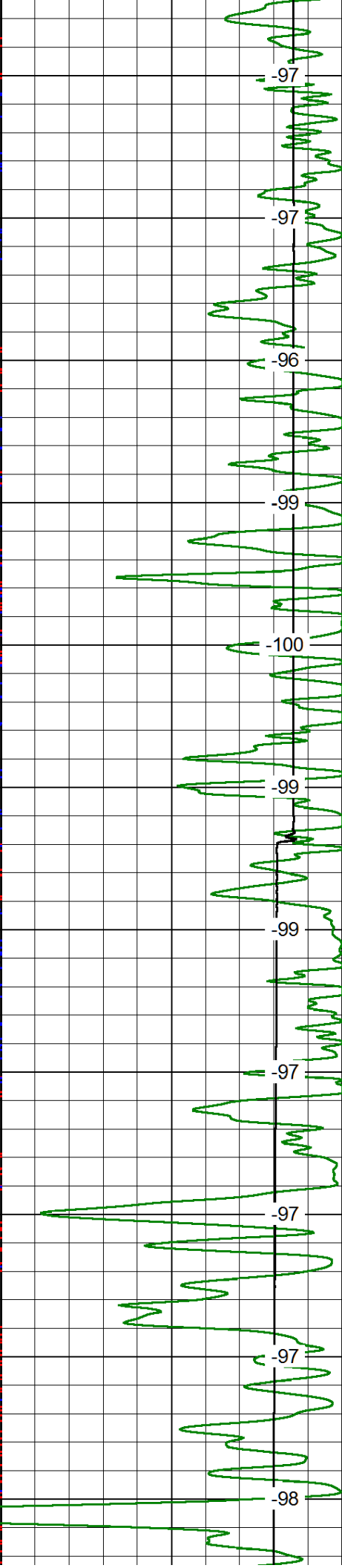
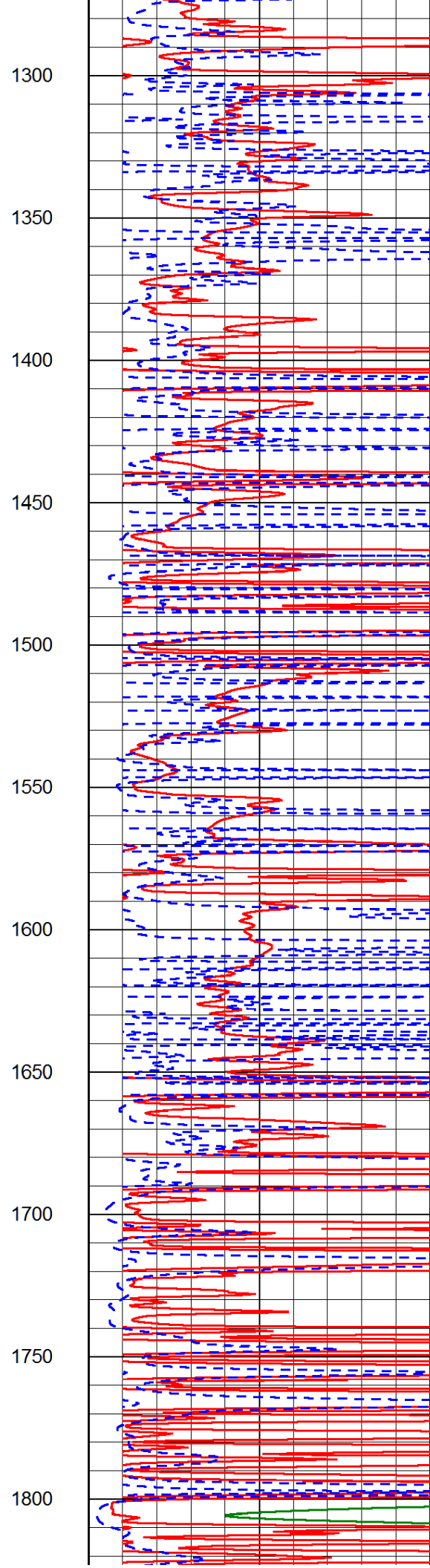
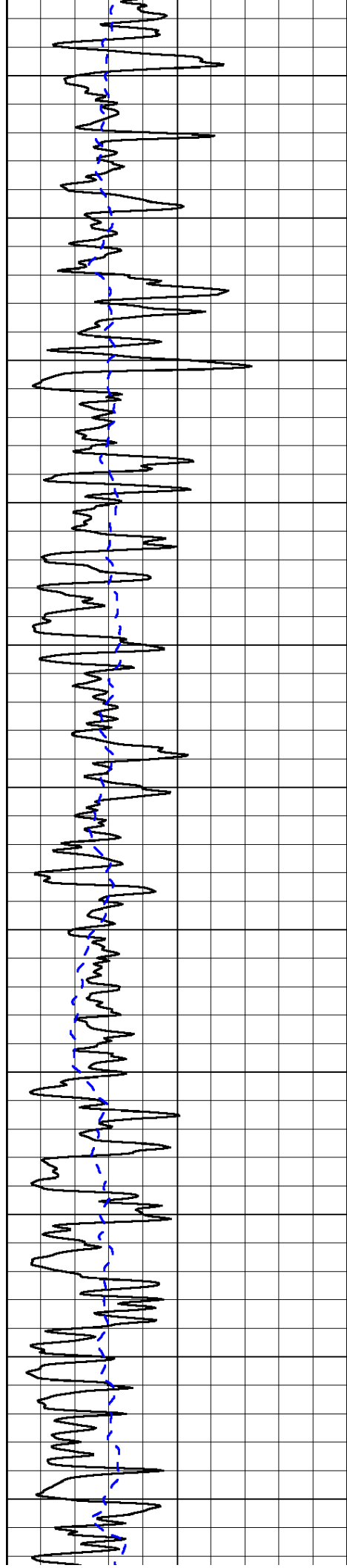
0	Gamma Ray	150
-200	SP (mV)	0

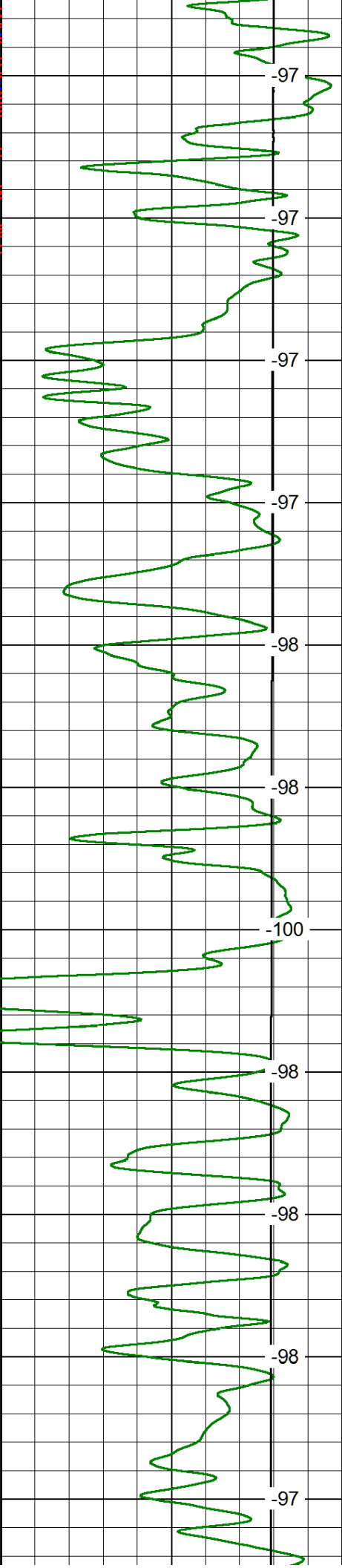
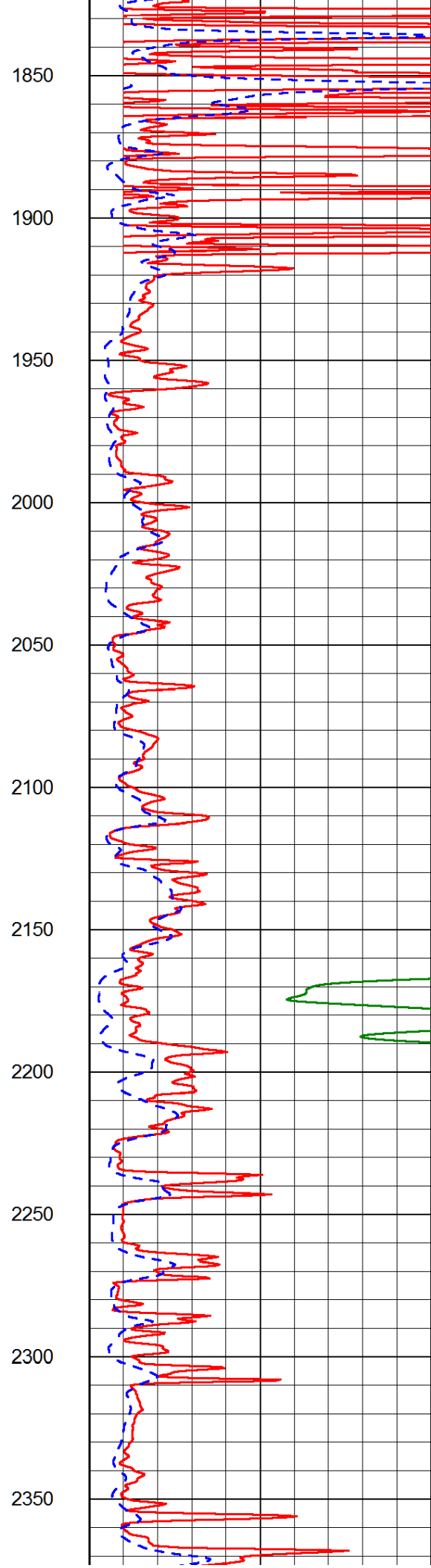
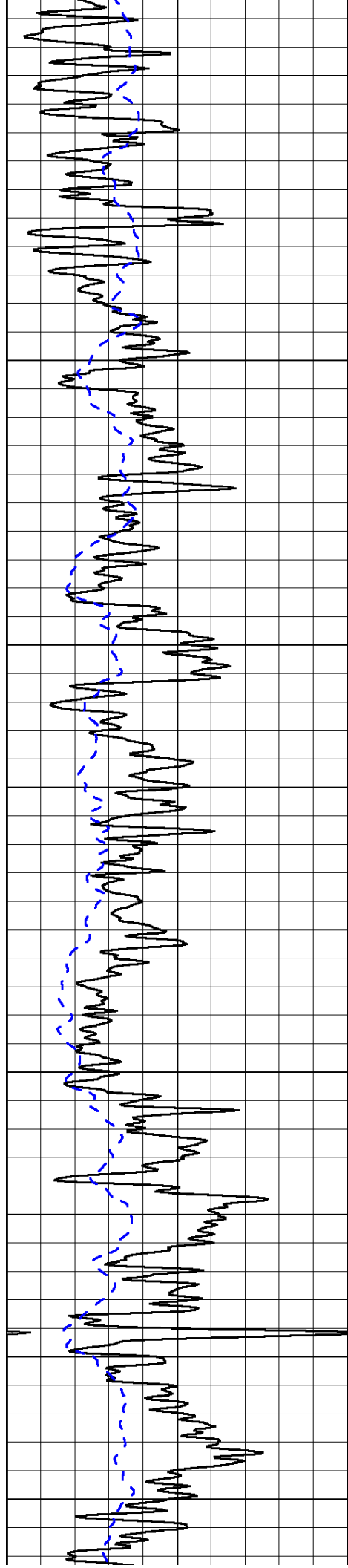
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

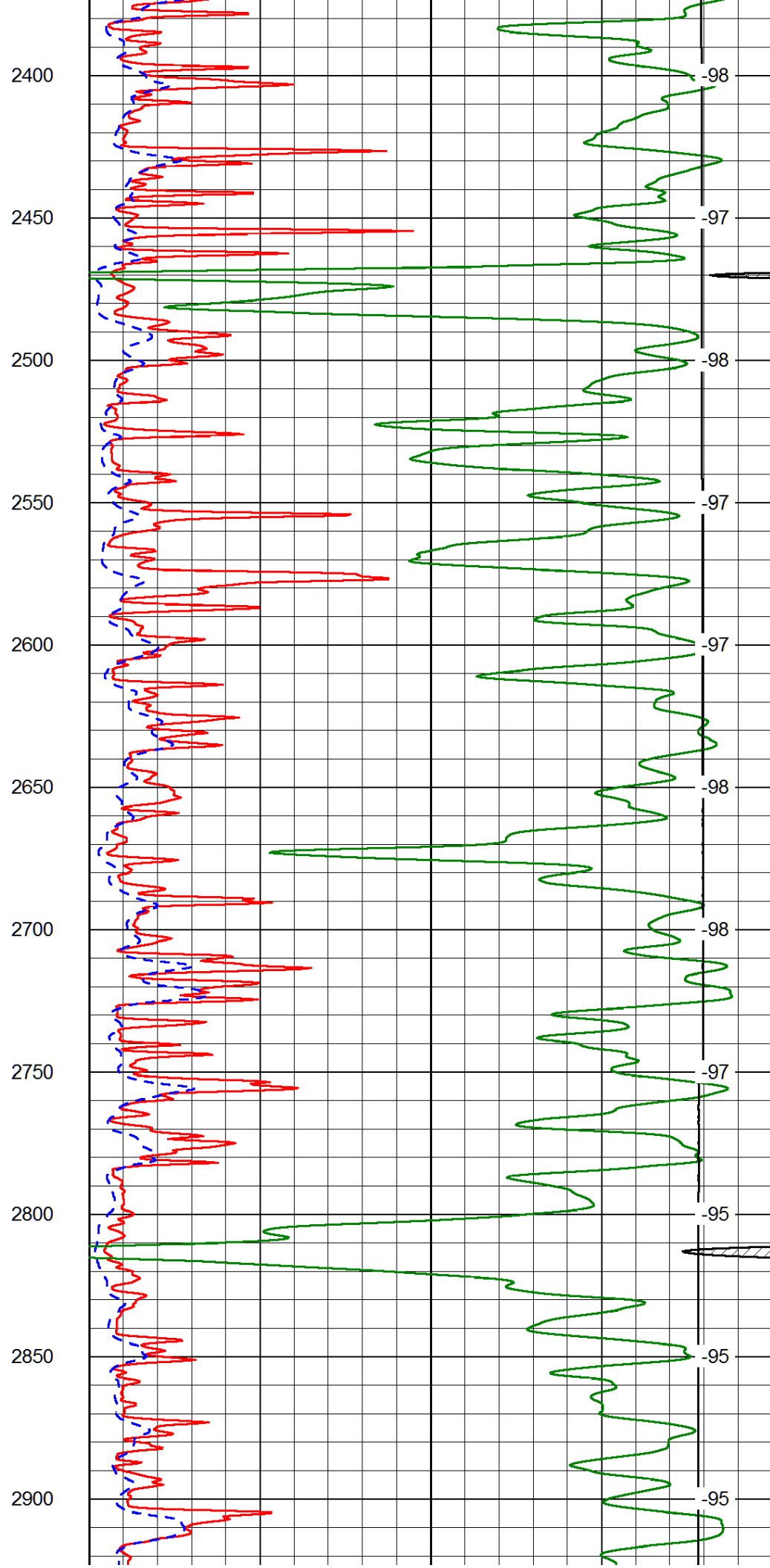
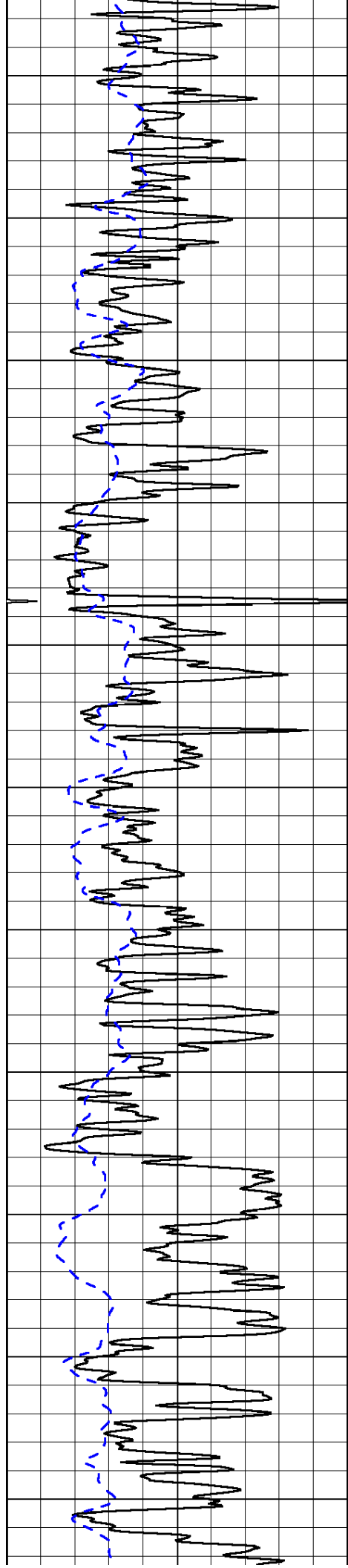
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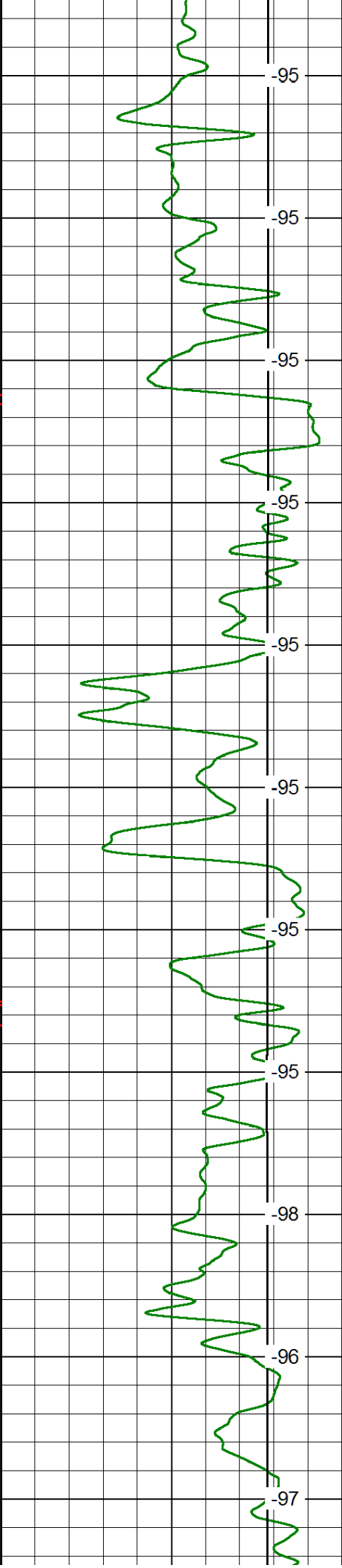
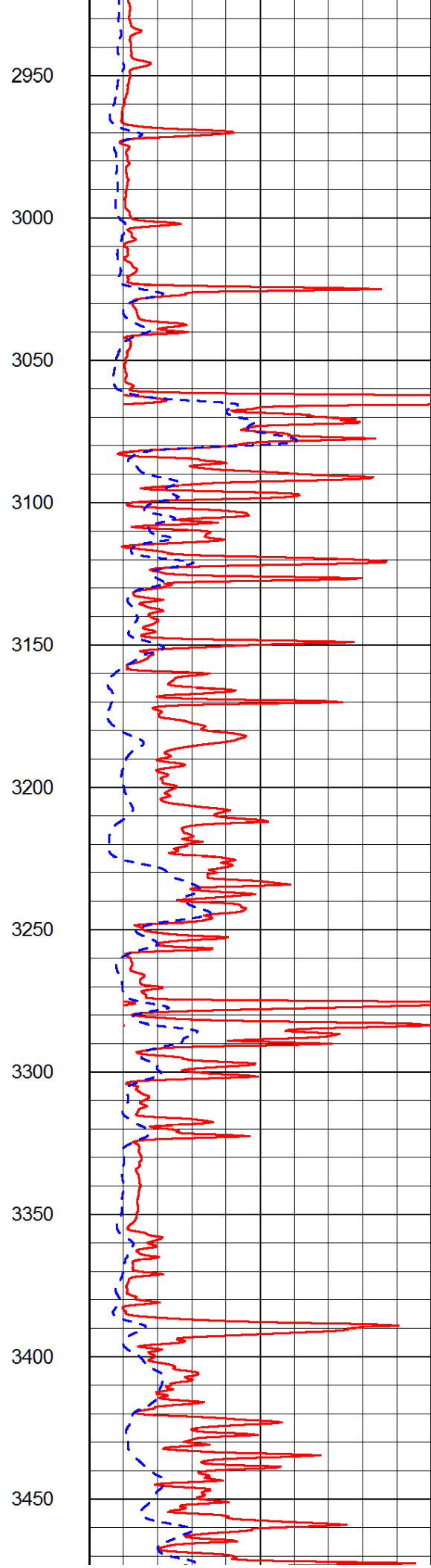
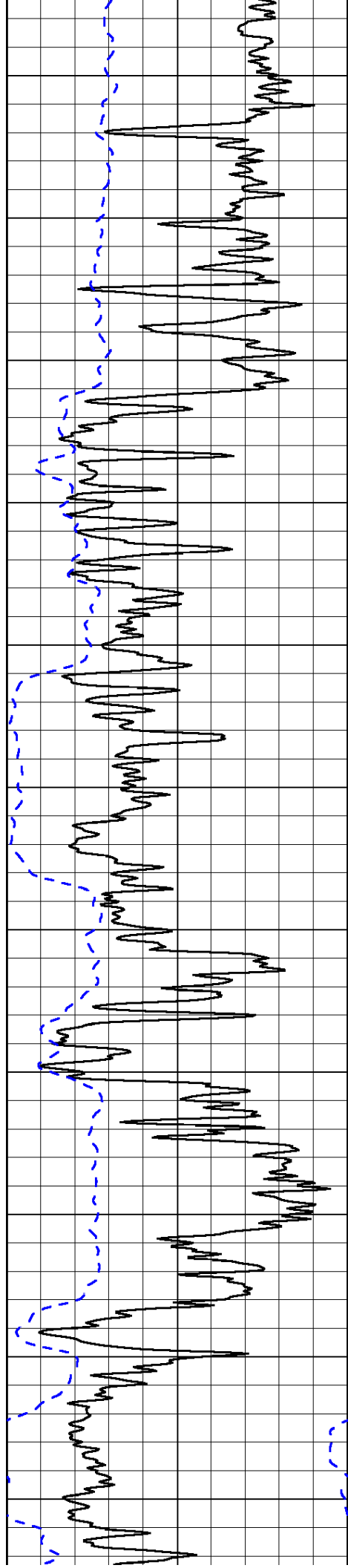


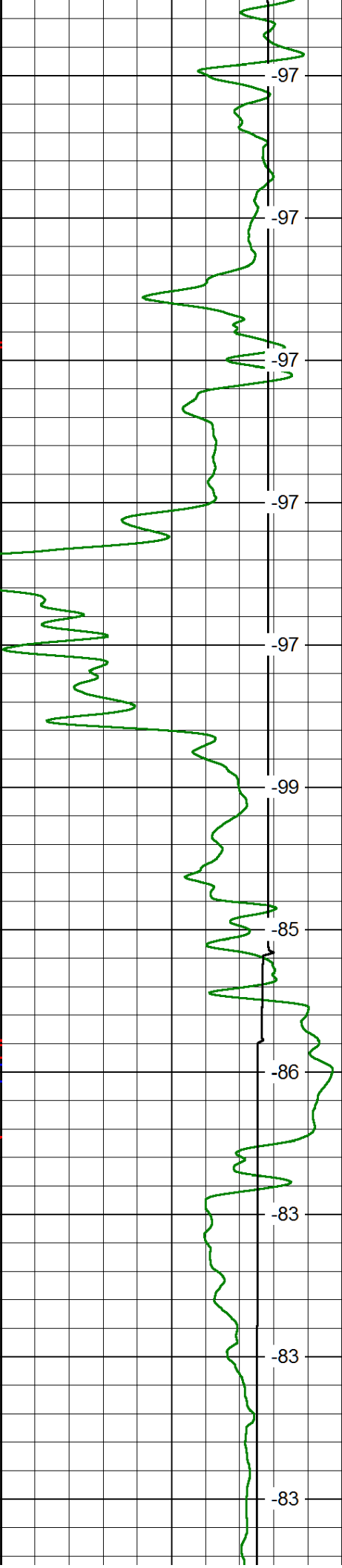
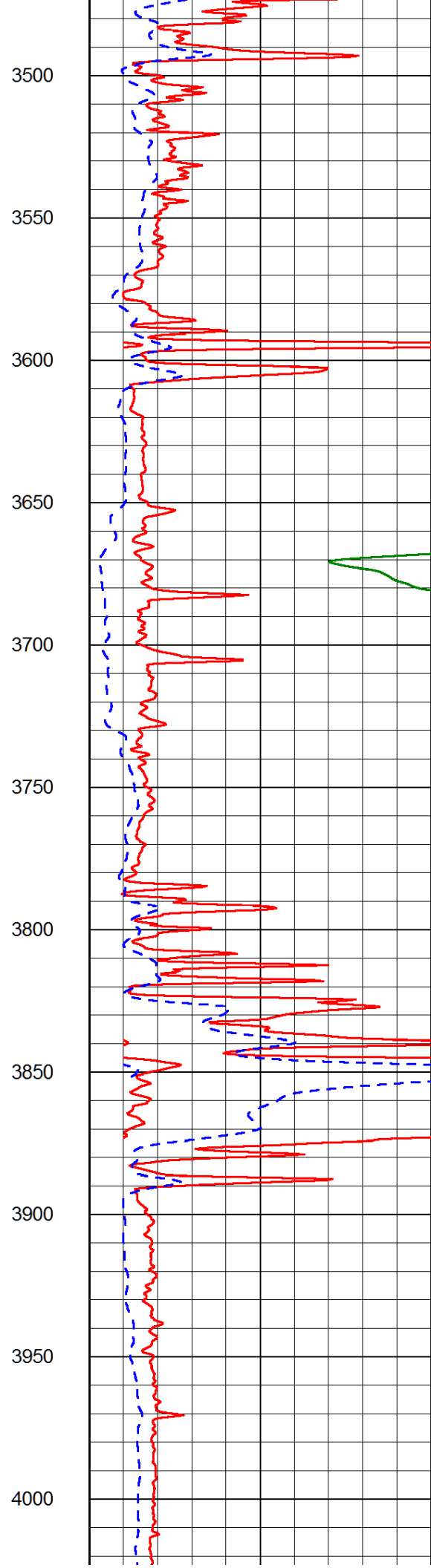
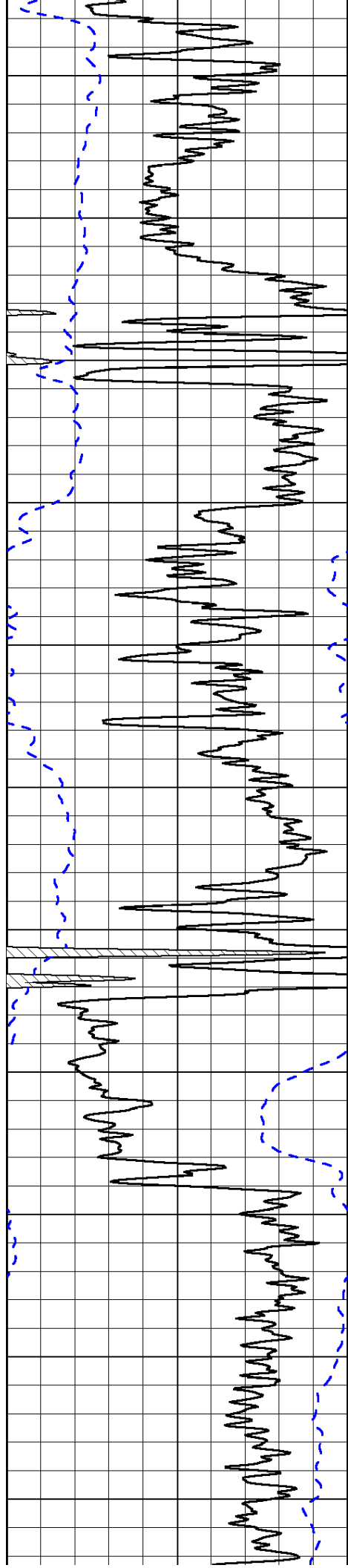


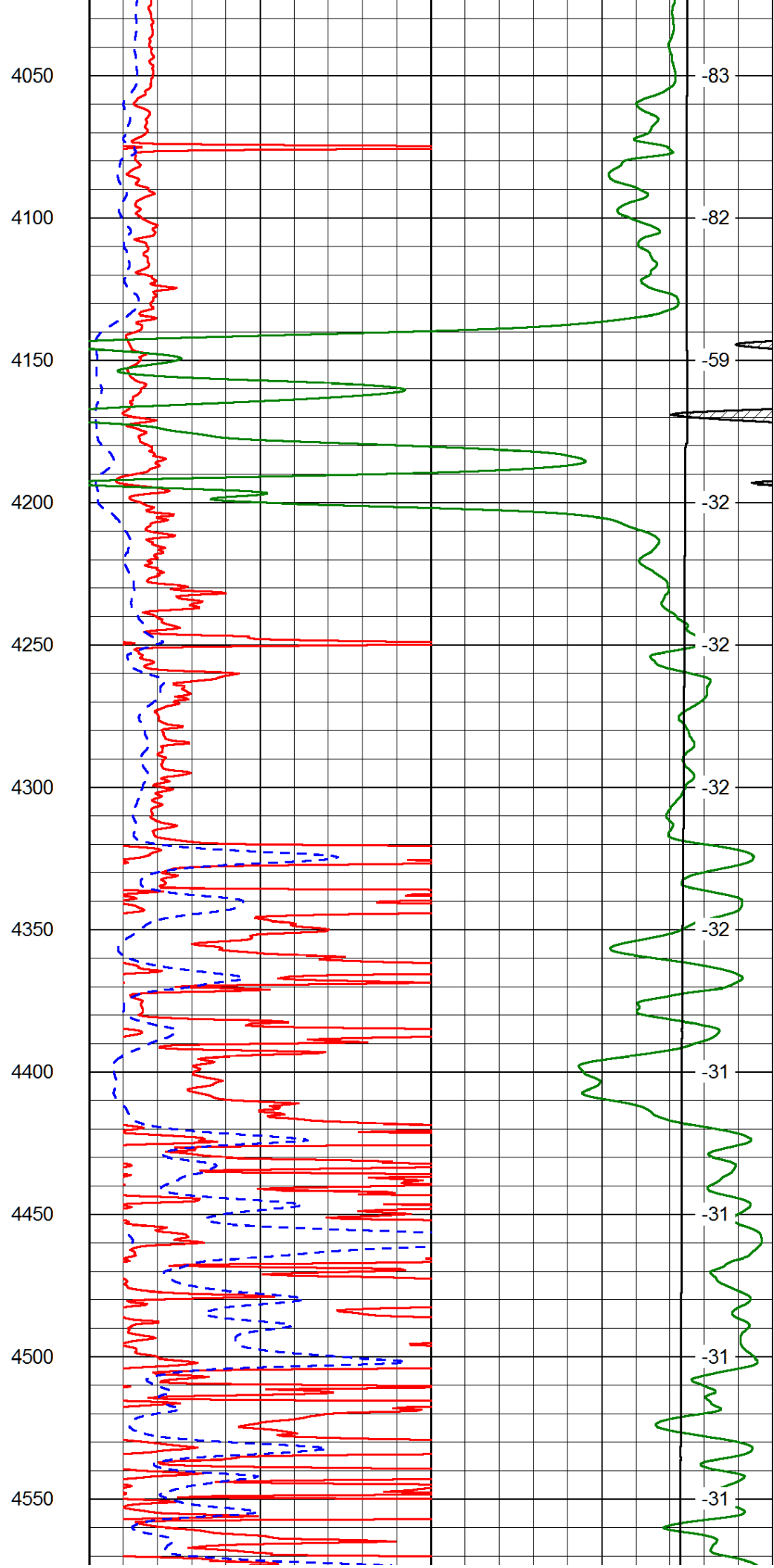
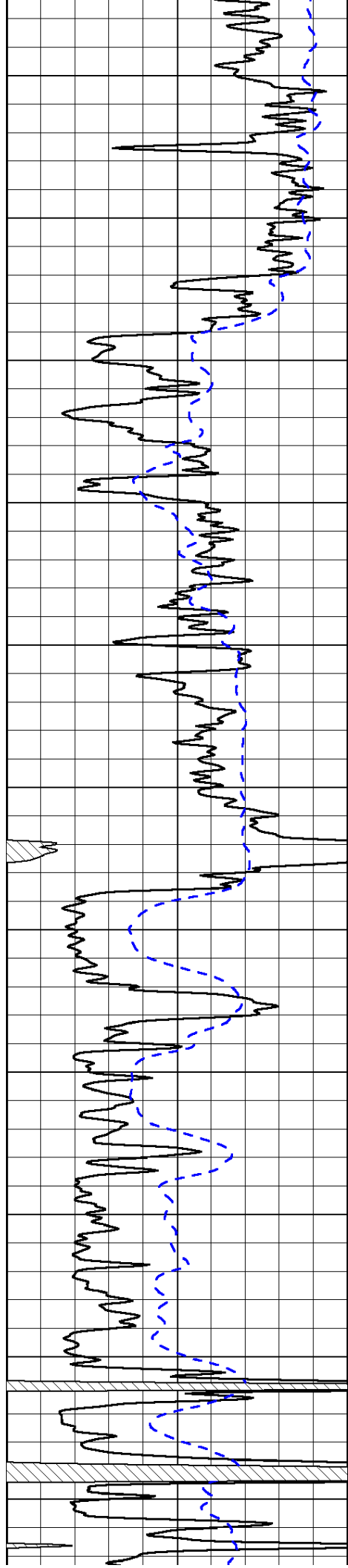


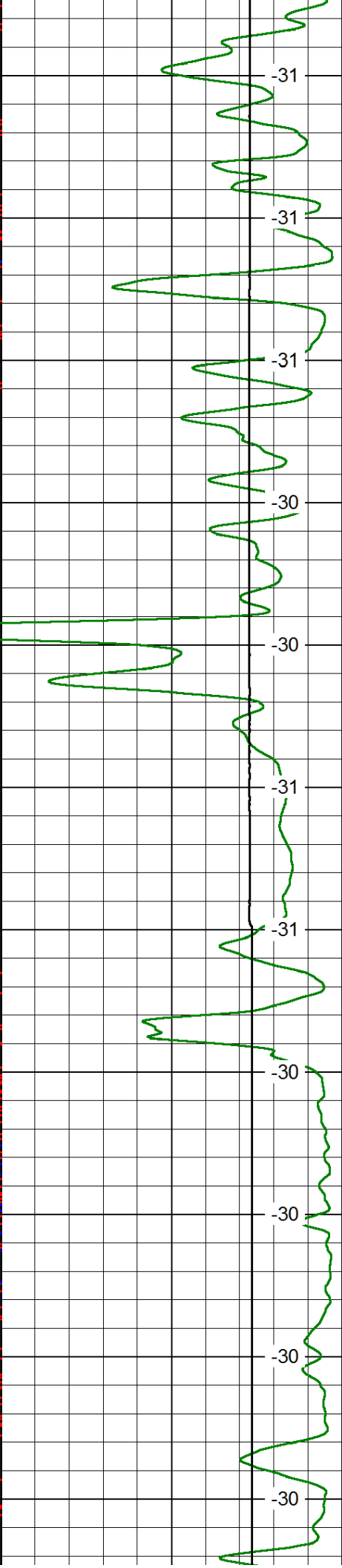
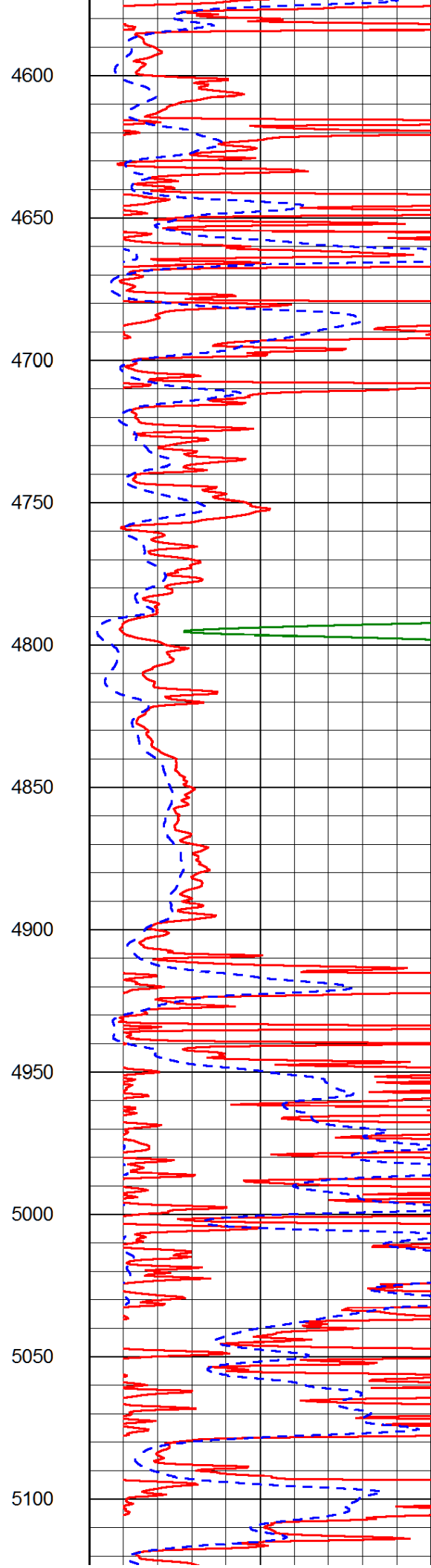
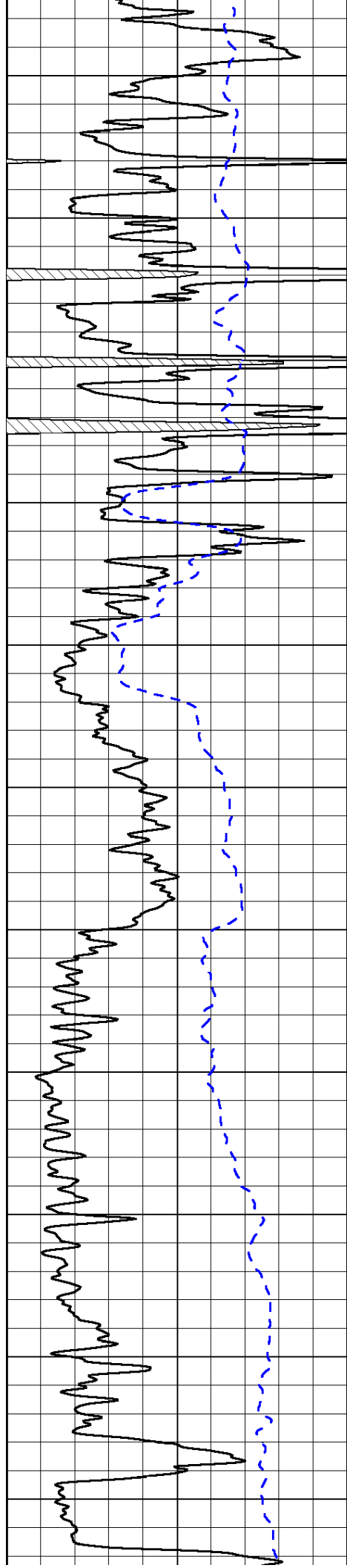


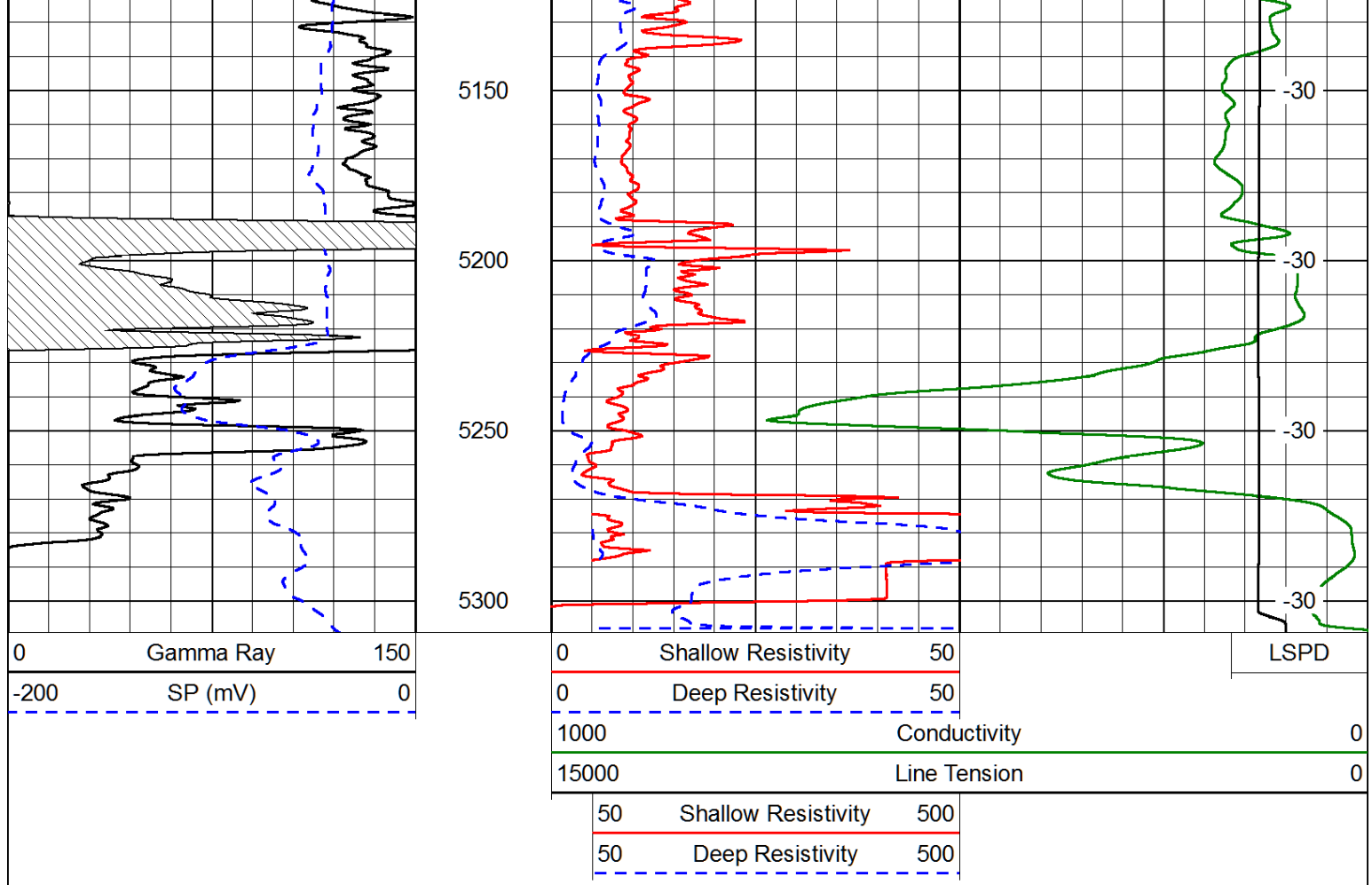




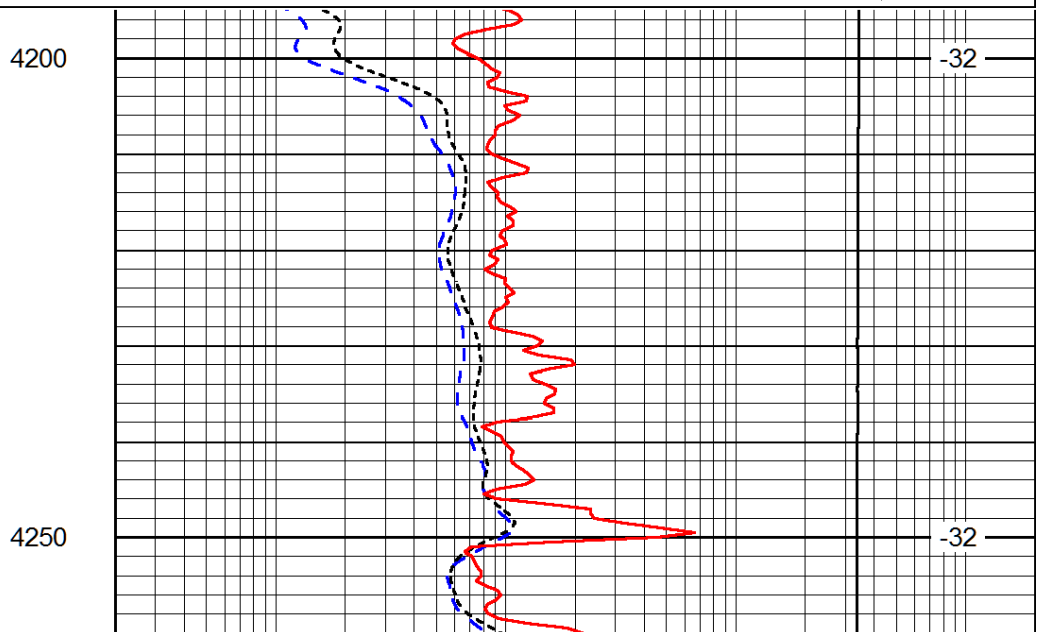
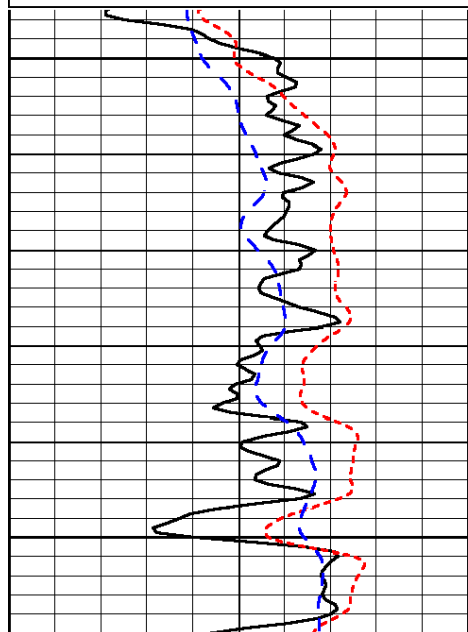
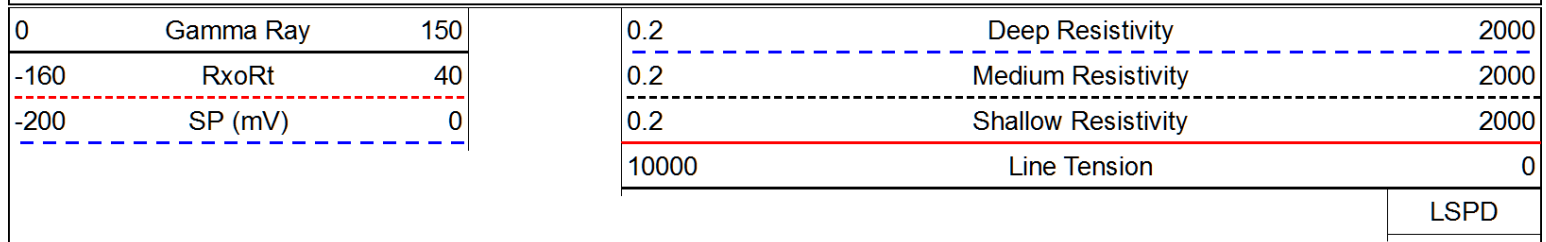


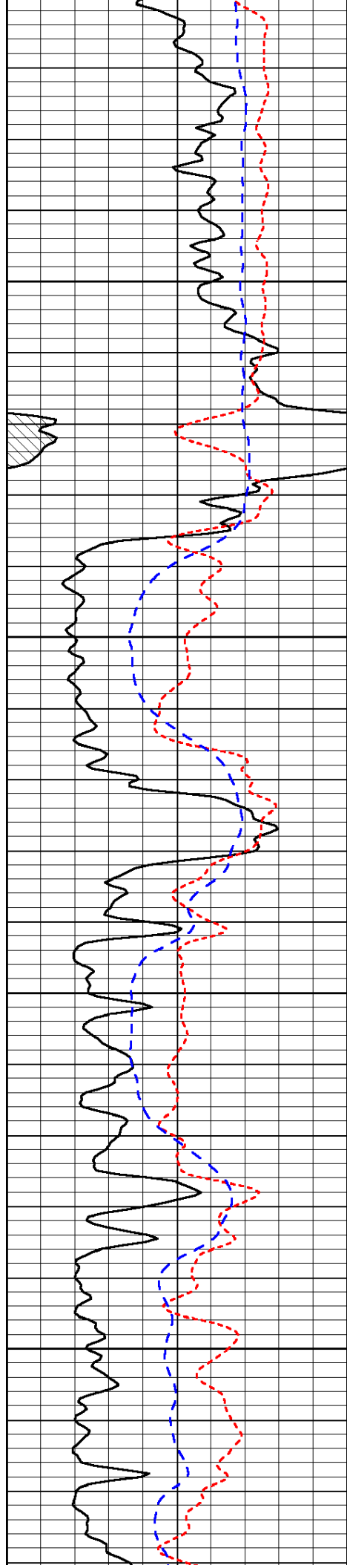






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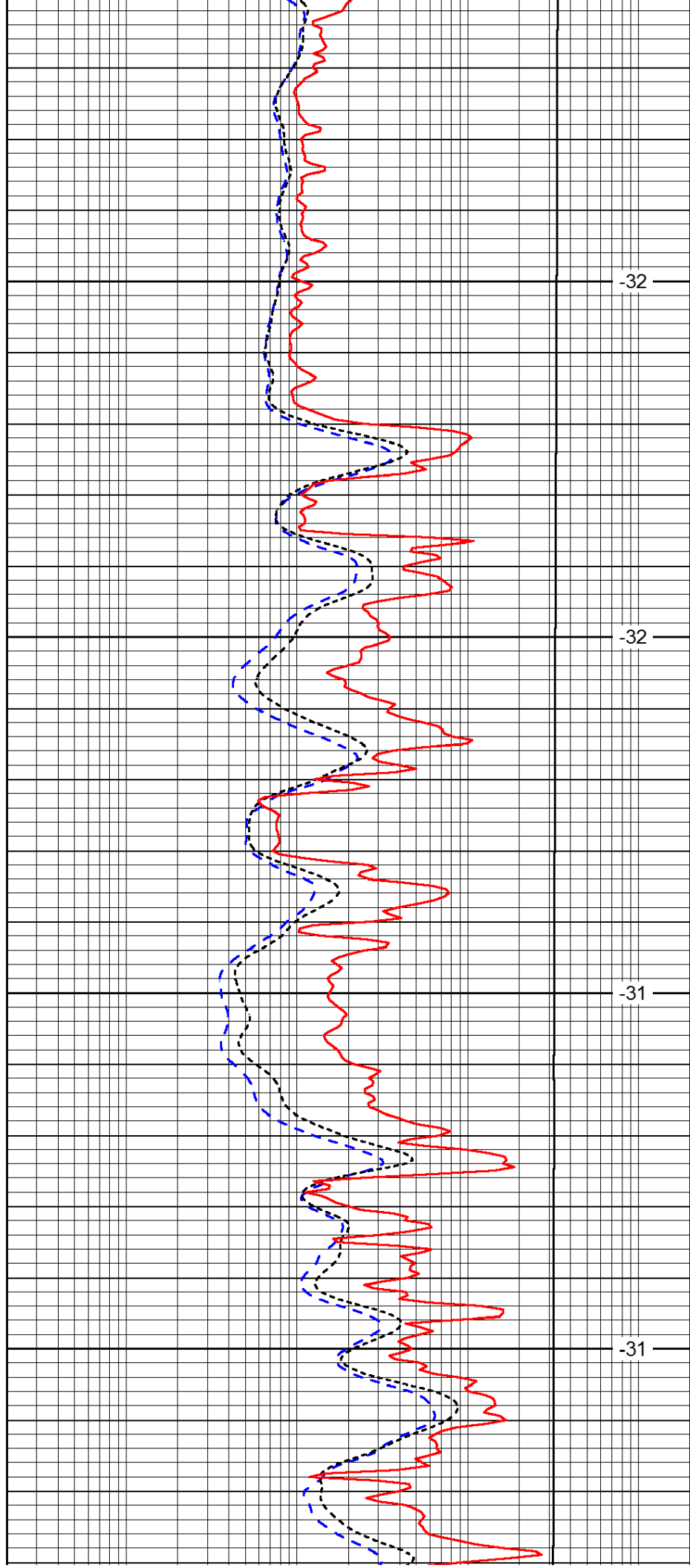


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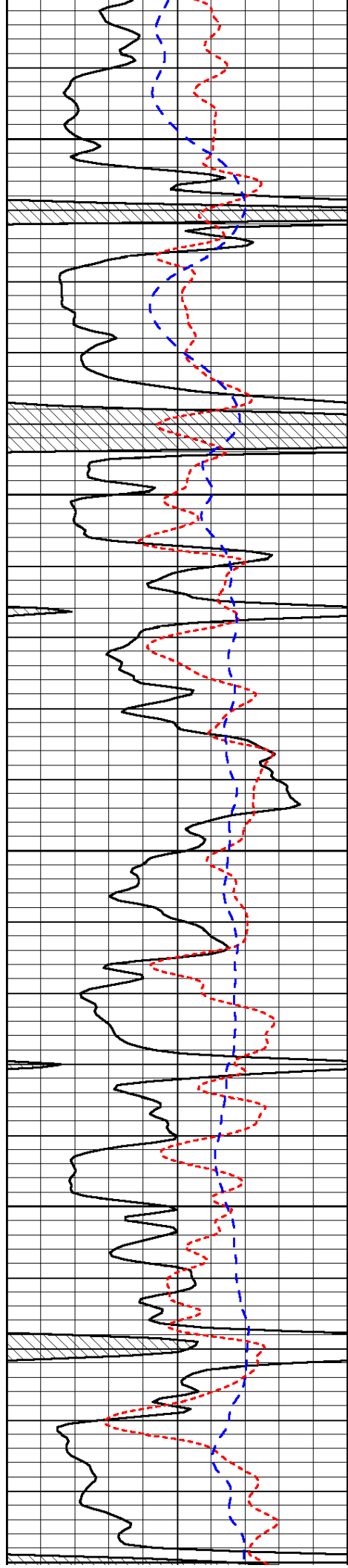


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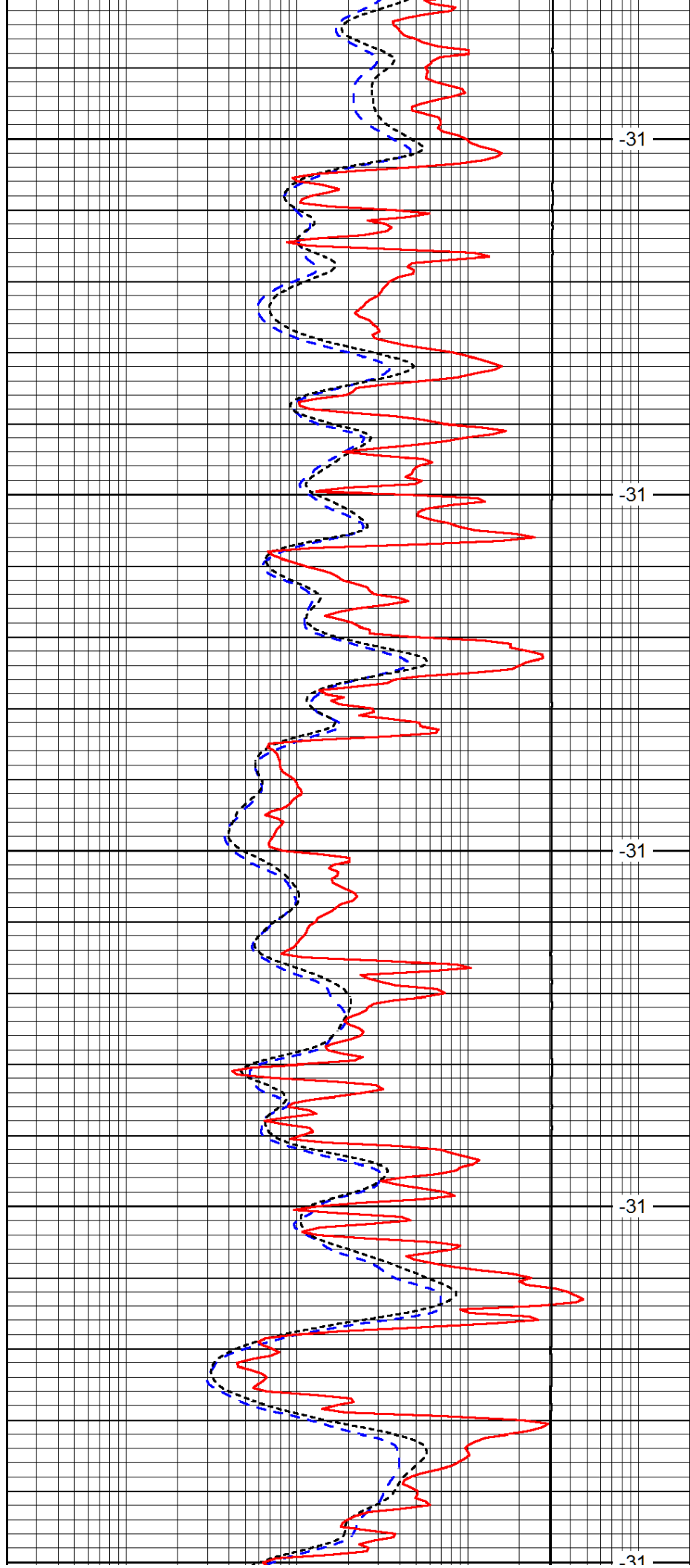
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4600

4650

4700



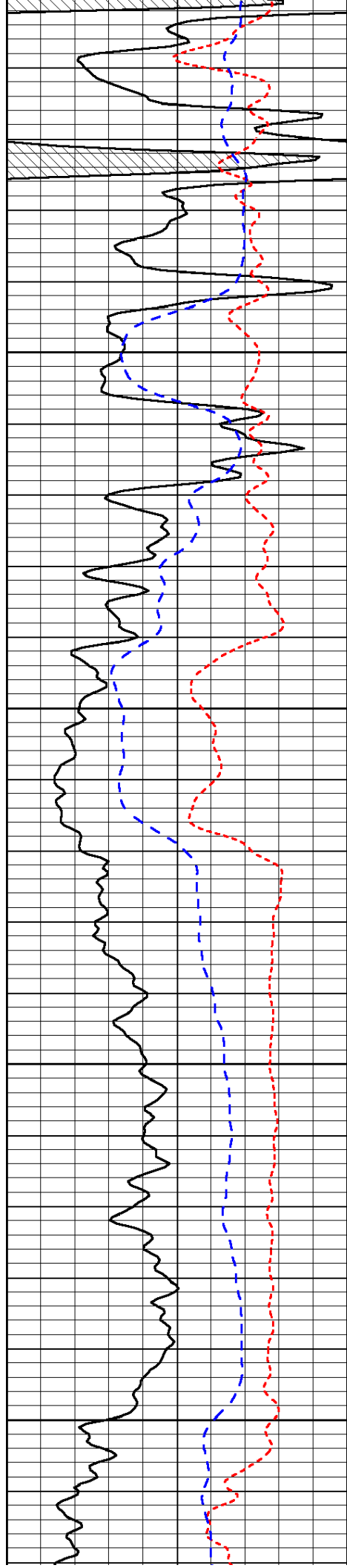
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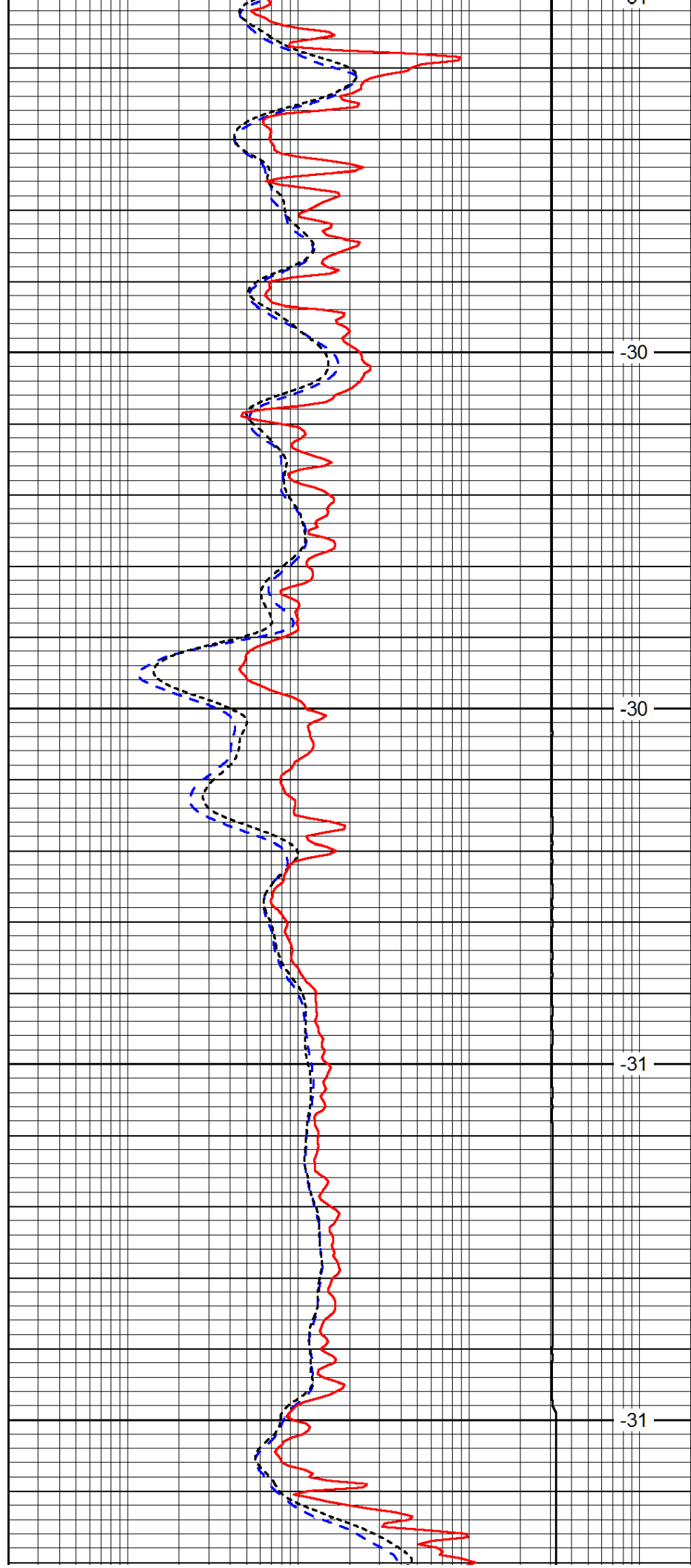
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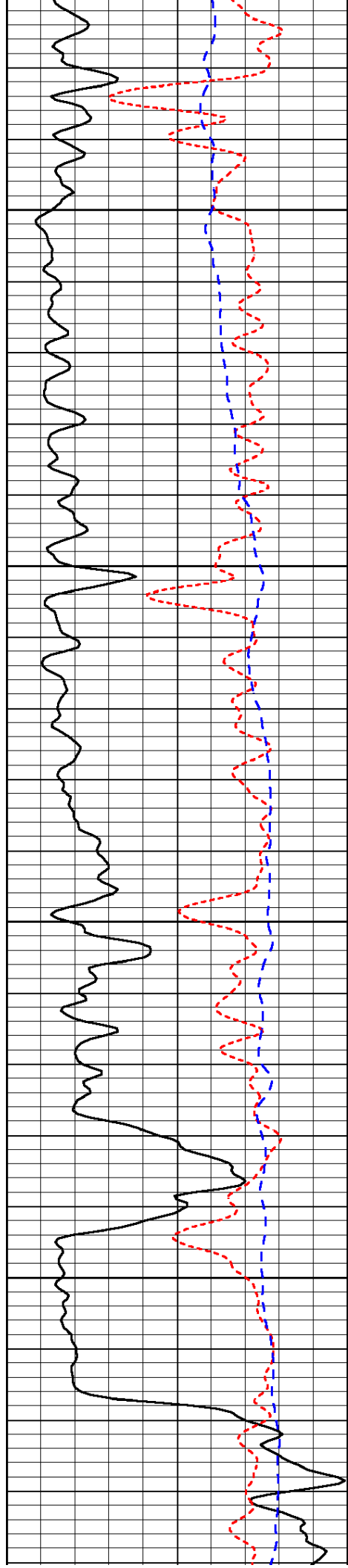
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4800
4850
4900



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-30
-31
-31

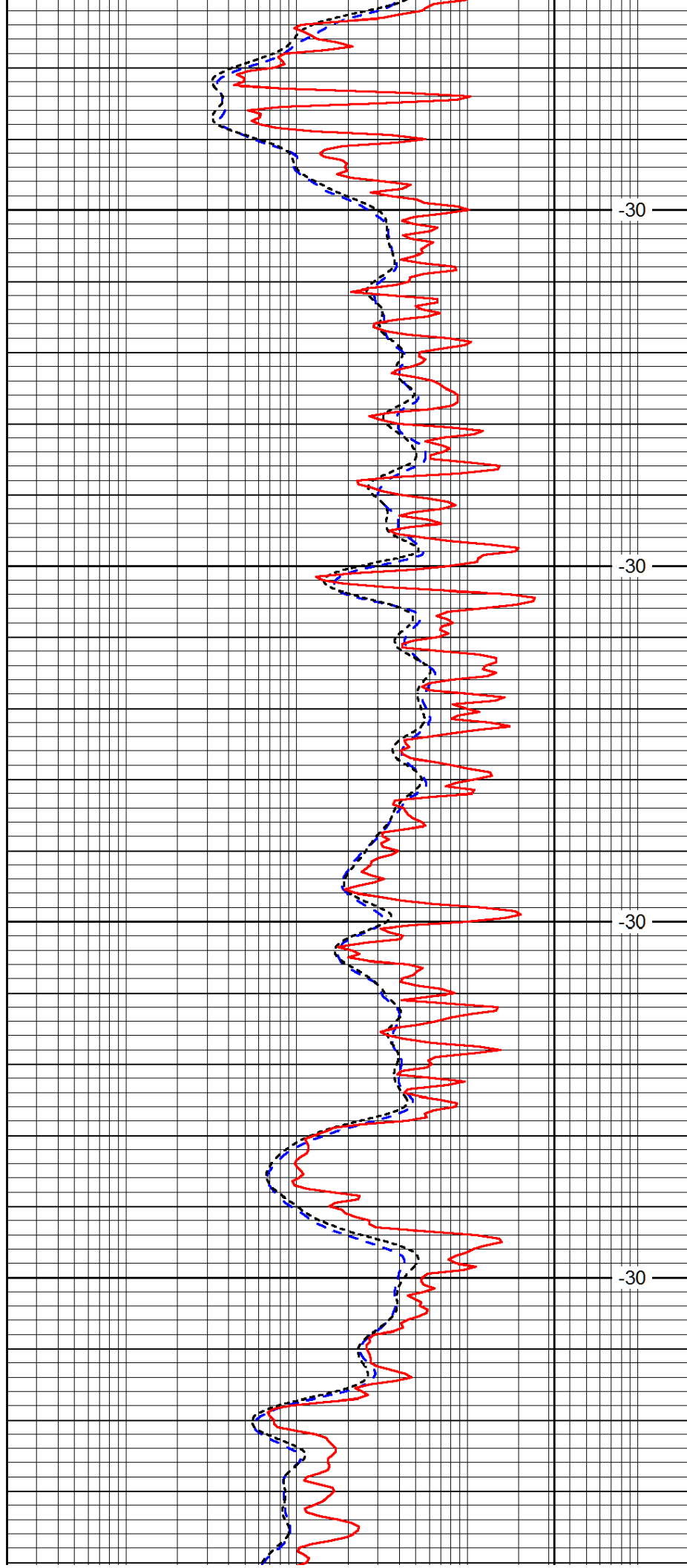


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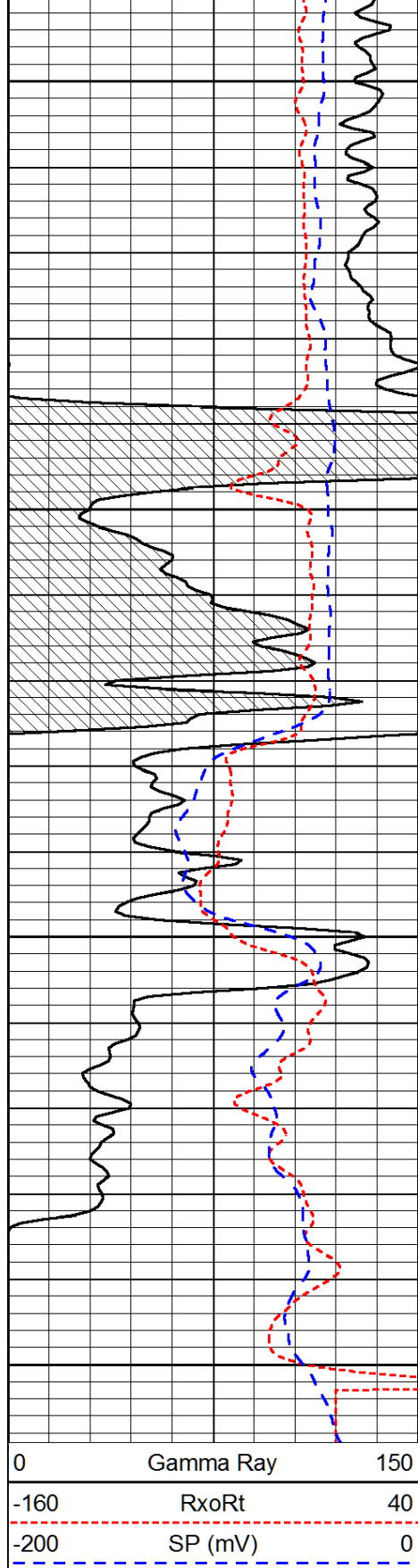


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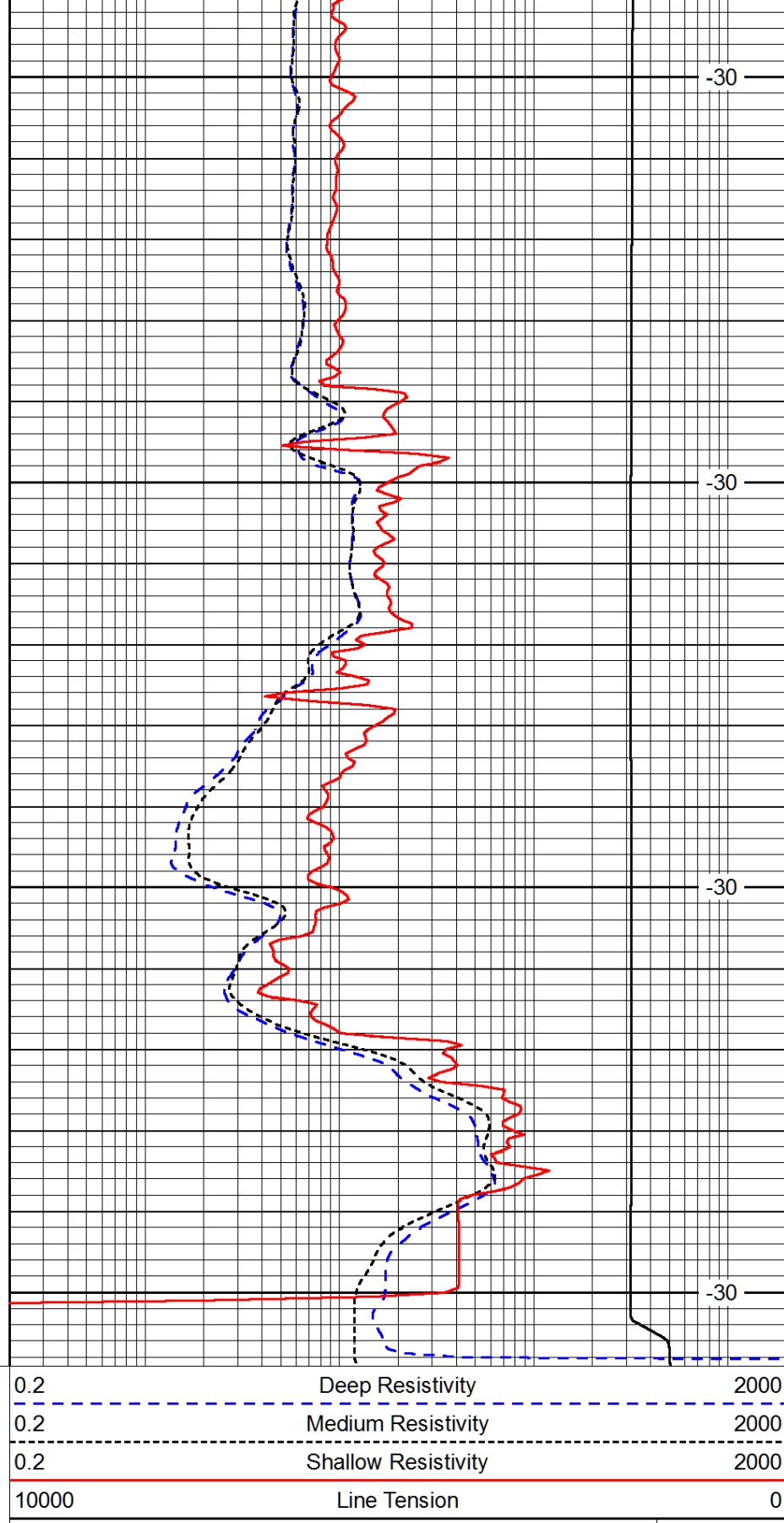


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-30

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