



Pioneer Energy Services

# Dual Induction Log

API No.	15-051-26,309-00-00	
Company	TDL, Inc.	
Well	Bixenman No.1	
Field	Dechant	
County	Ellis	State
		Kansas
Location	NE NW/ SW NE 1340' FNL & 2005' FEL	
Sec: 11	Twp: 15 S	Rge: 19 W
Permanent Datum	Ground Level	Elevation 2058
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL MEL
		Elevation K.B. 2065 D.F. G.L. 2058

Date	8/20/2012
Run Number	One
Depth Driller	3750
Depth Logger	3753
Bottom Logged Interval	3752
Top Log Interval	200
Casing Driller	8.625 @ 211
Casing Logger	210
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	9800
Density / Viscosity	9.0 57
pH / Fluid Loss	10.0 9.6
Source of Sample	Flowline
Rm @ Meas. Temp	.45 @ 80
Rmf @ Meas. Temp	.34 @ 80
Rmc @ Meas. Temp	.61 @ 80
Source of Rmf / Rmc	Charts
Rm @ BHT	.32 @ 114
Operating Rig Time	4 Hours
Max Rec. Temp. F	114
Equipment Number	108
Location	Hays
Recorded By	D.Kerr
Witnessed By	Herb Deines

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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  
 Antonino KS, 1 1/4 South,  
 West Into

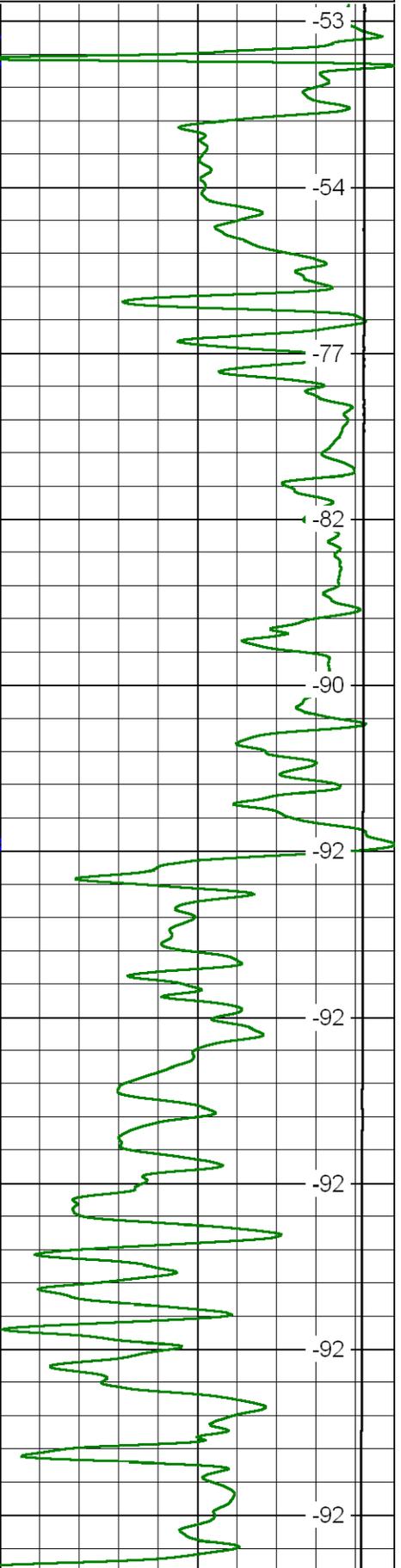
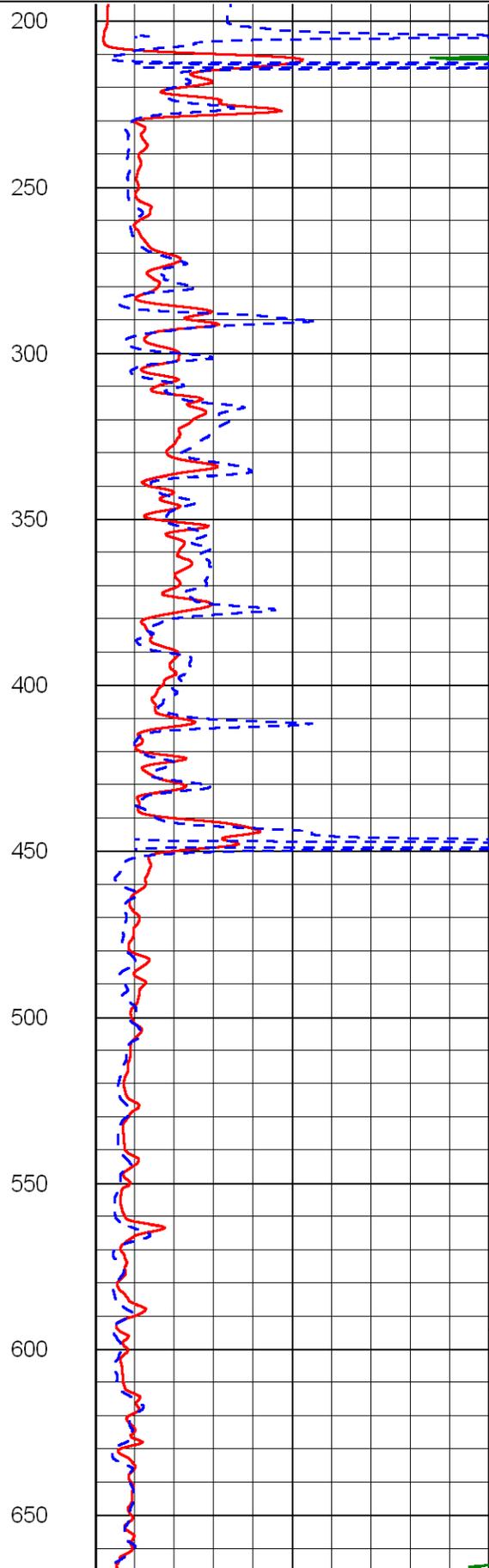
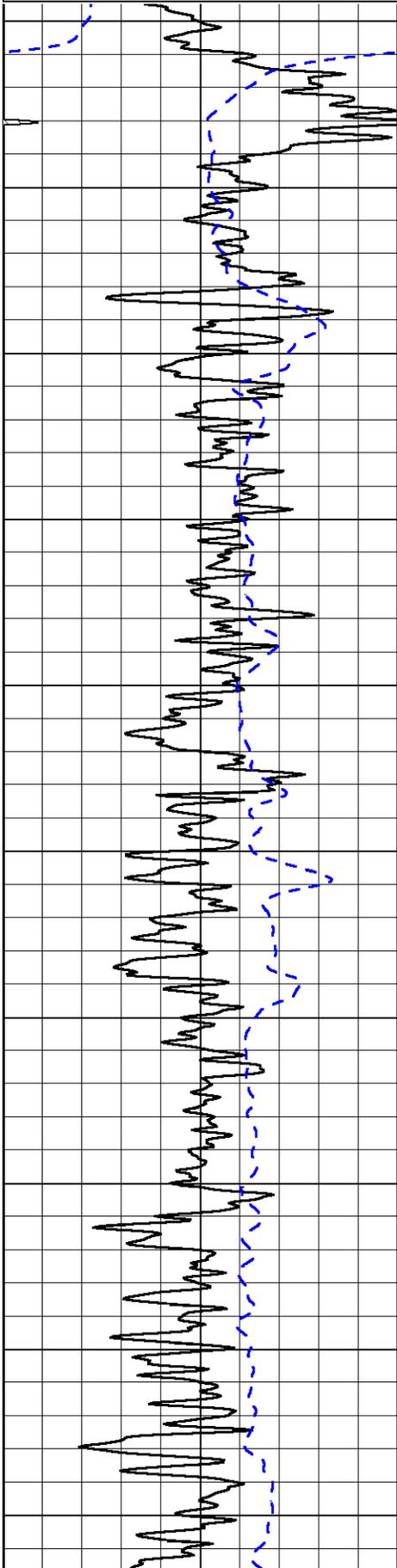
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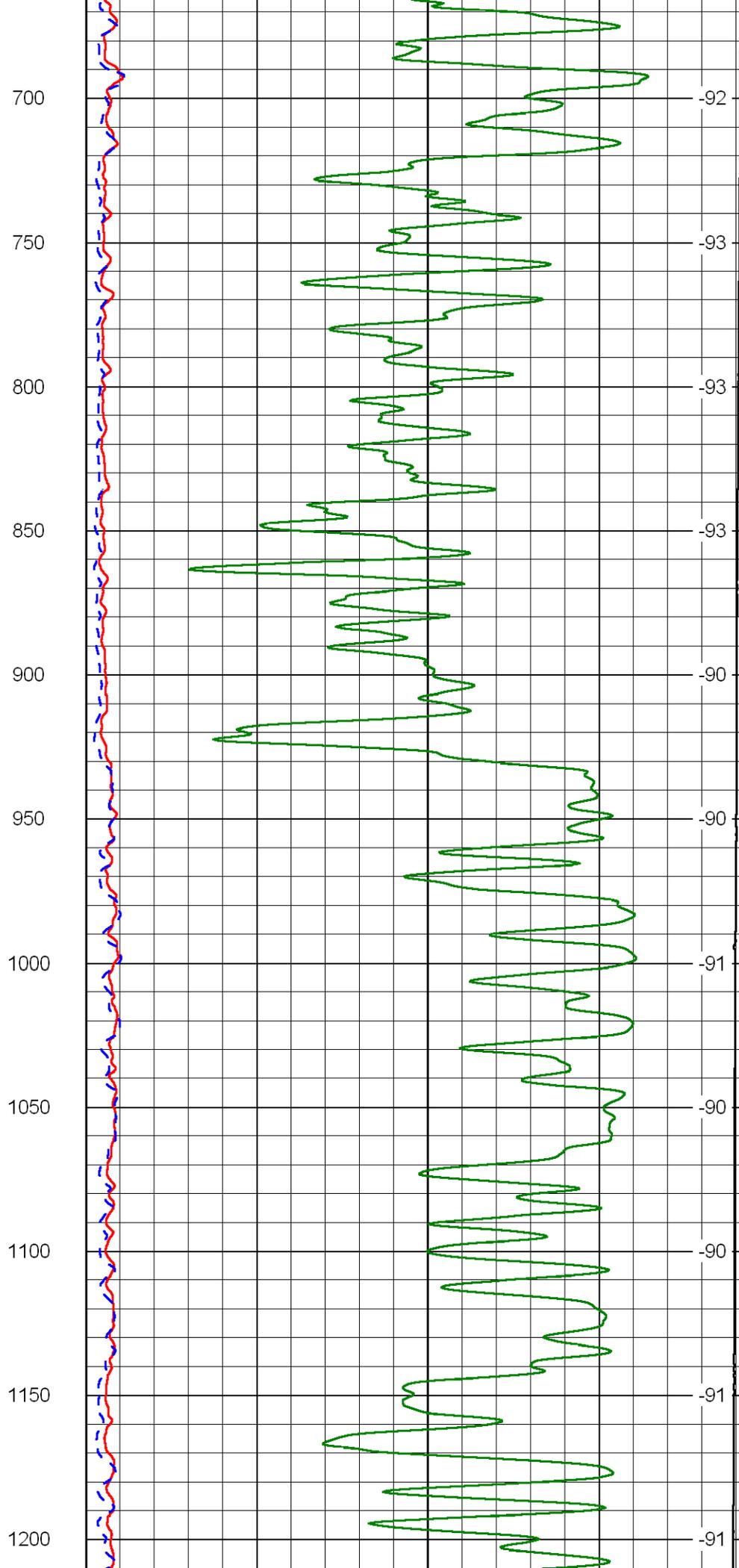
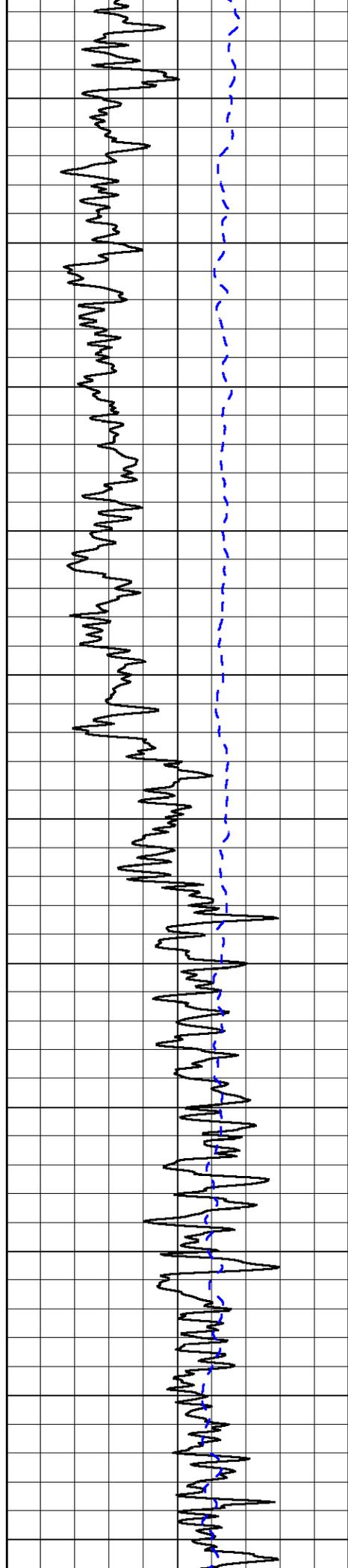
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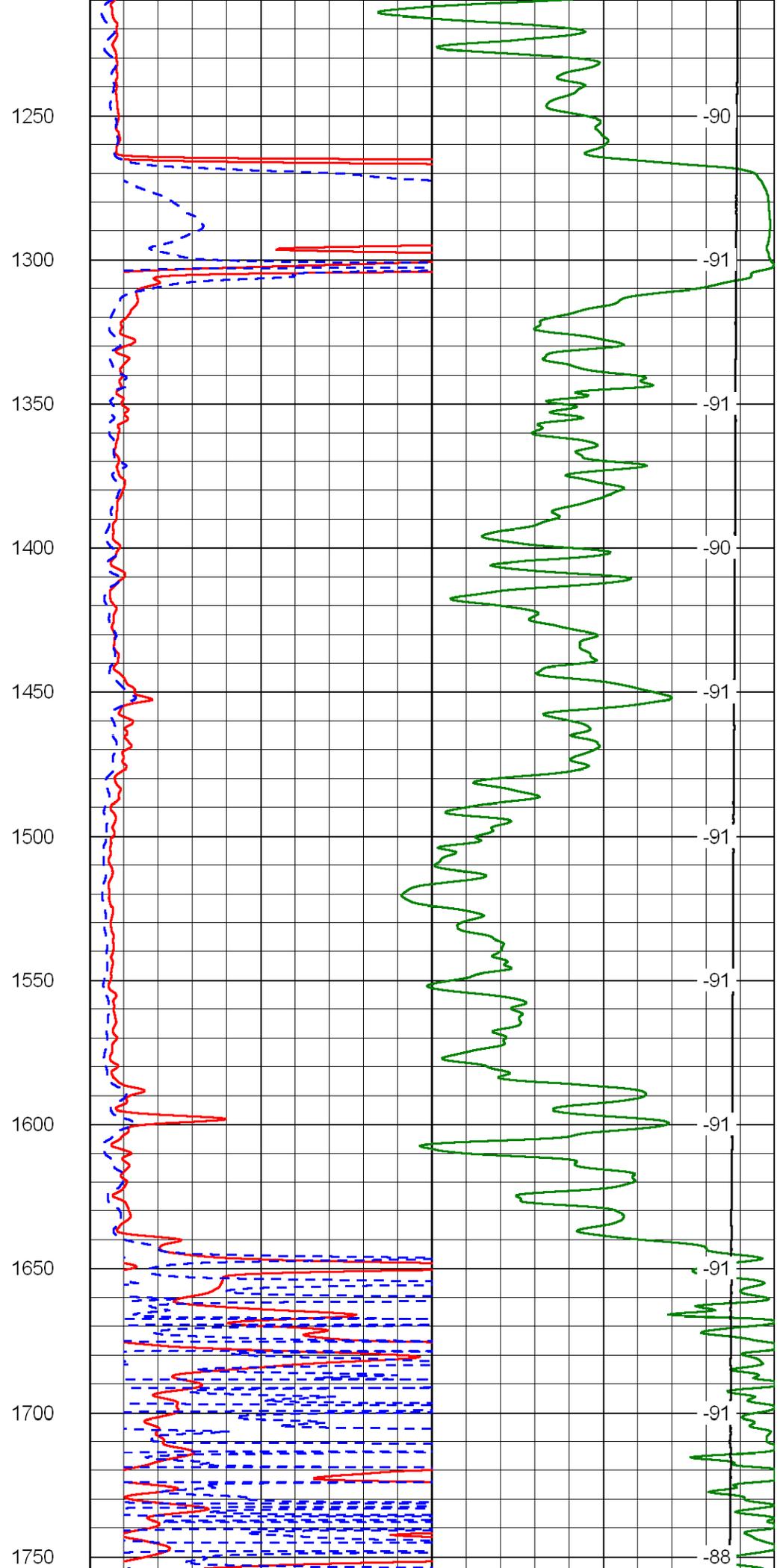
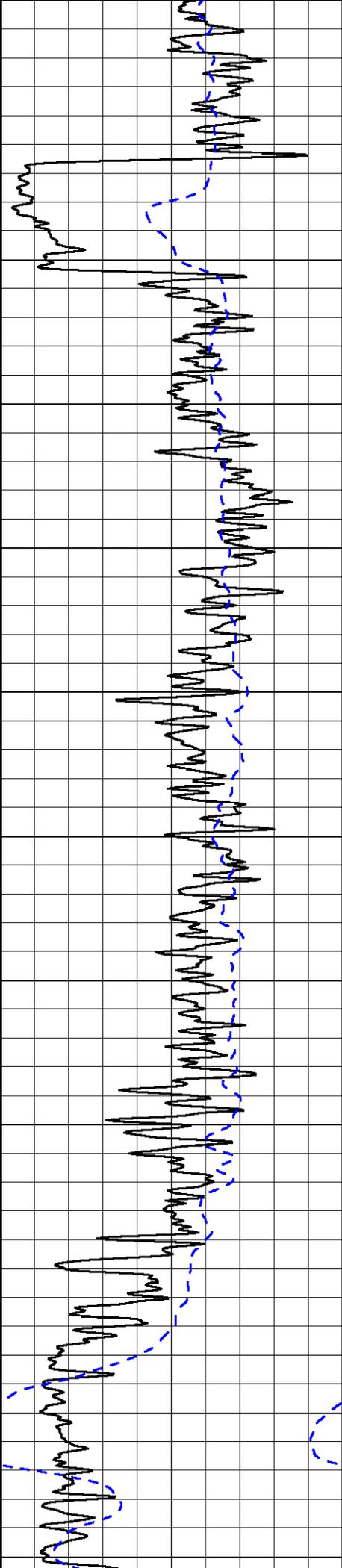
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15000	Line Tension	0

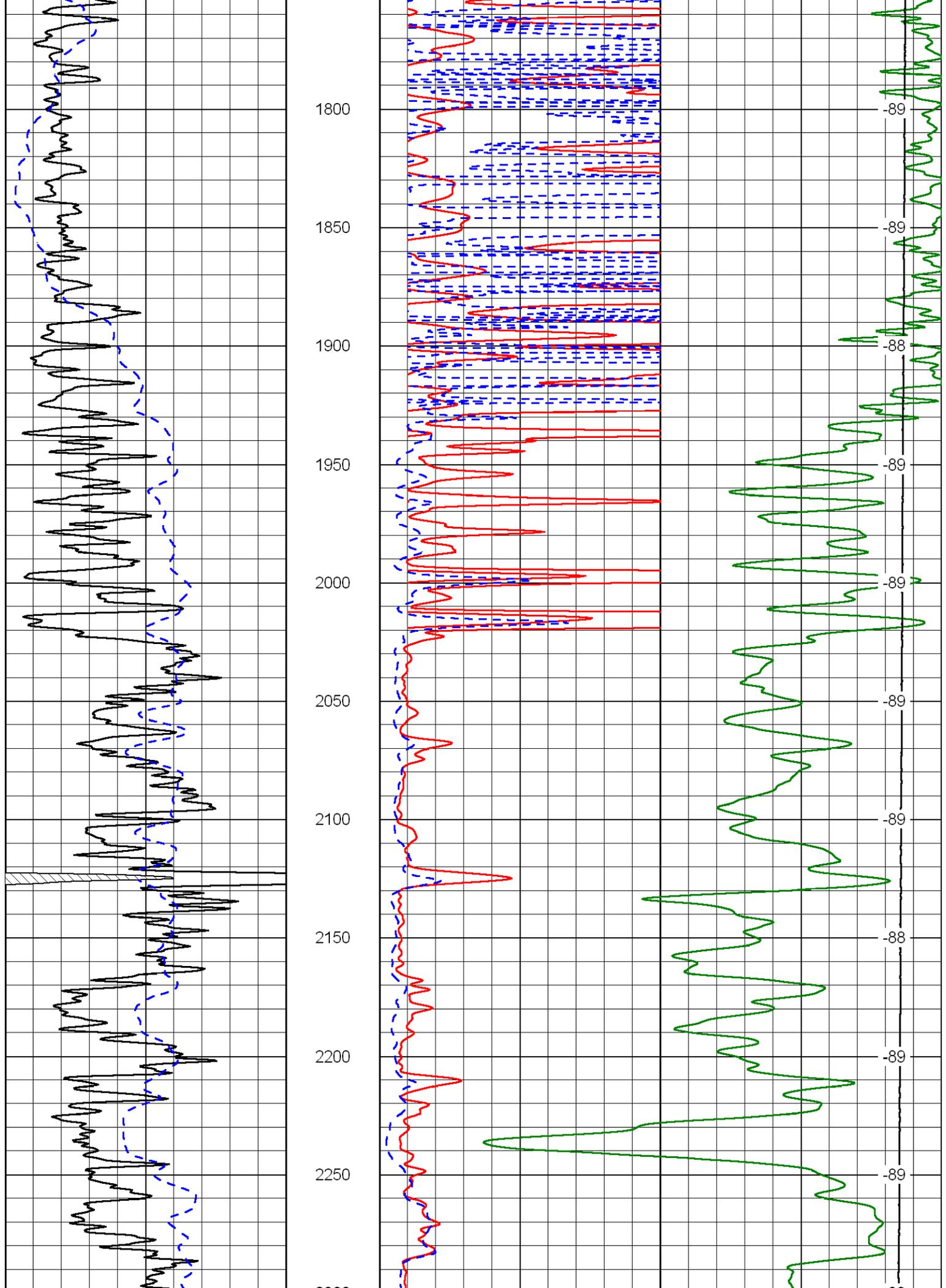
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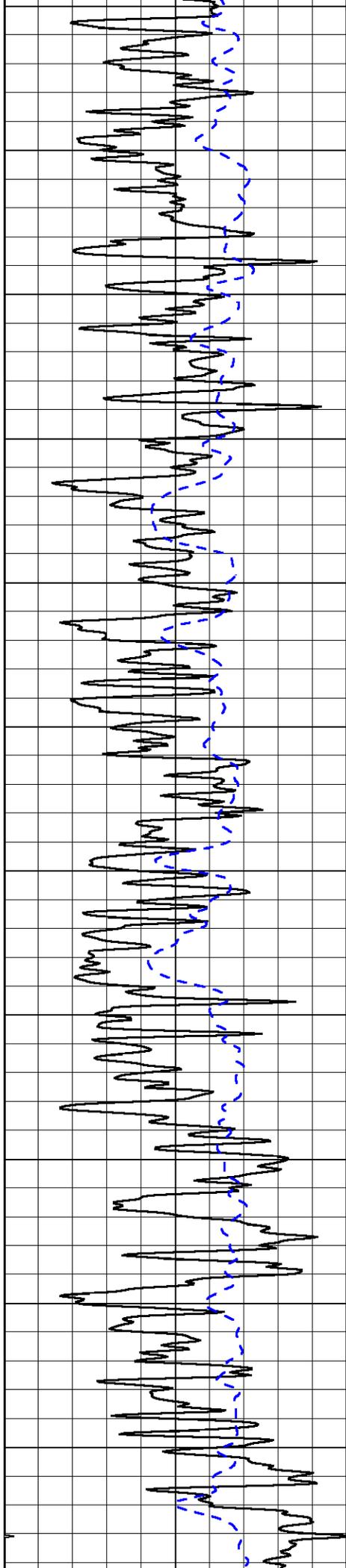
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50	Deep Resistivity	500



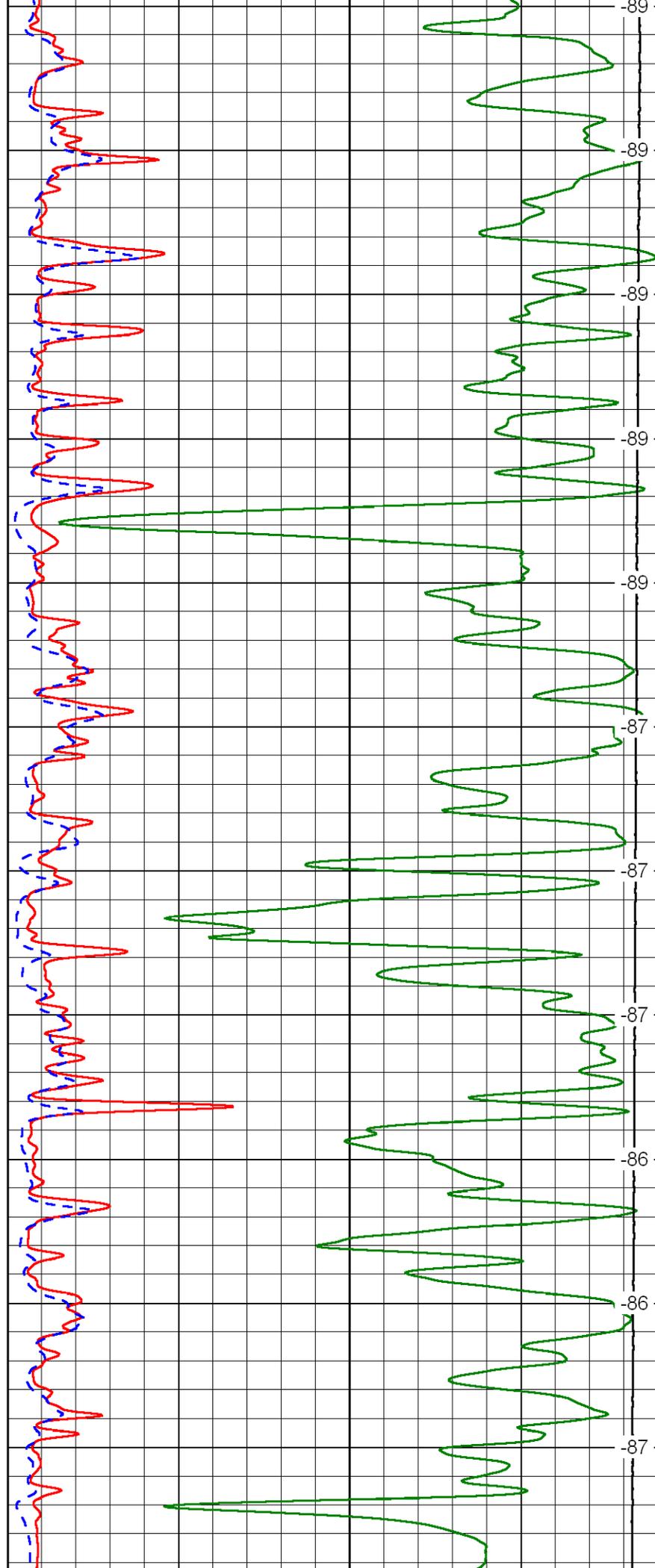




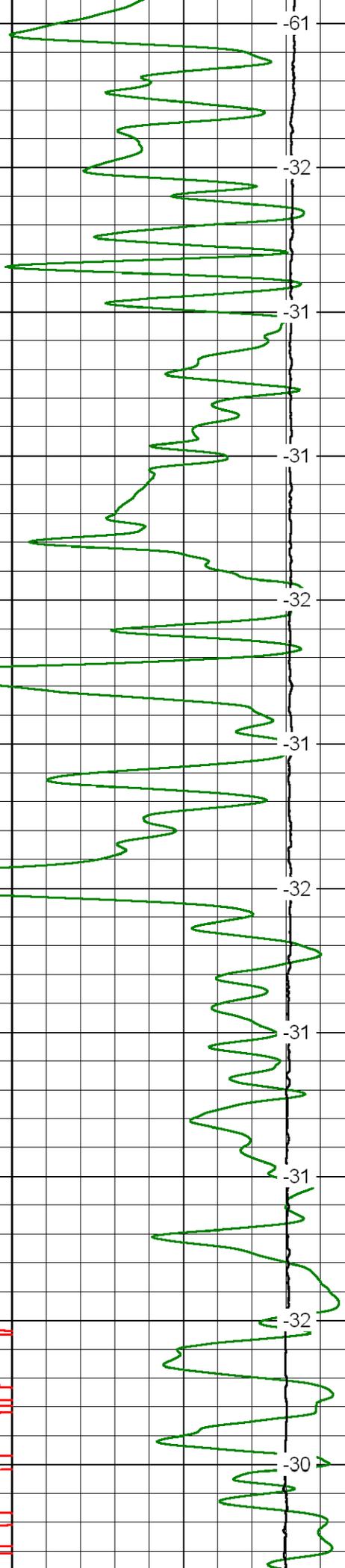
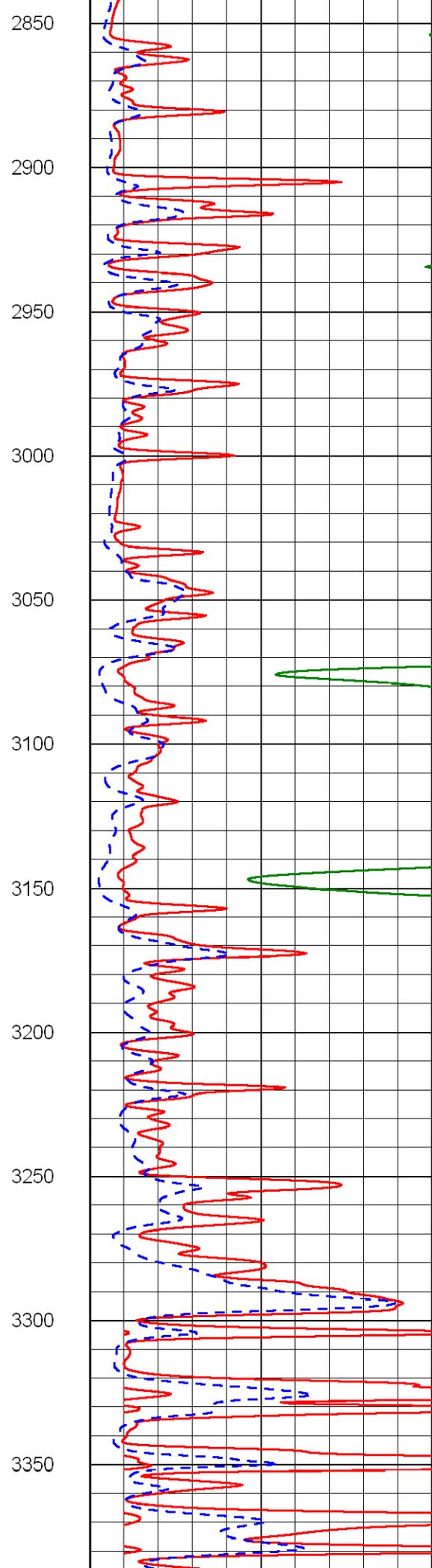
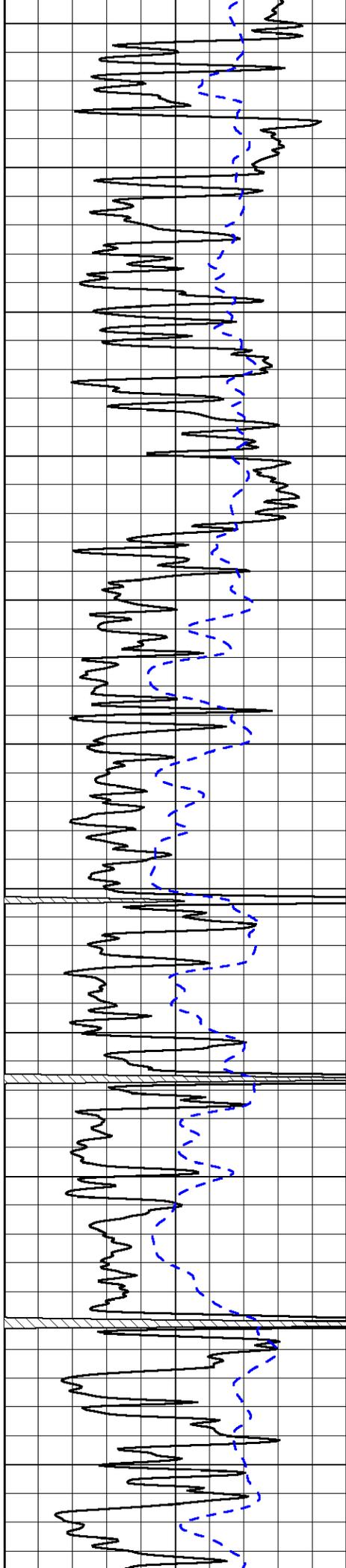




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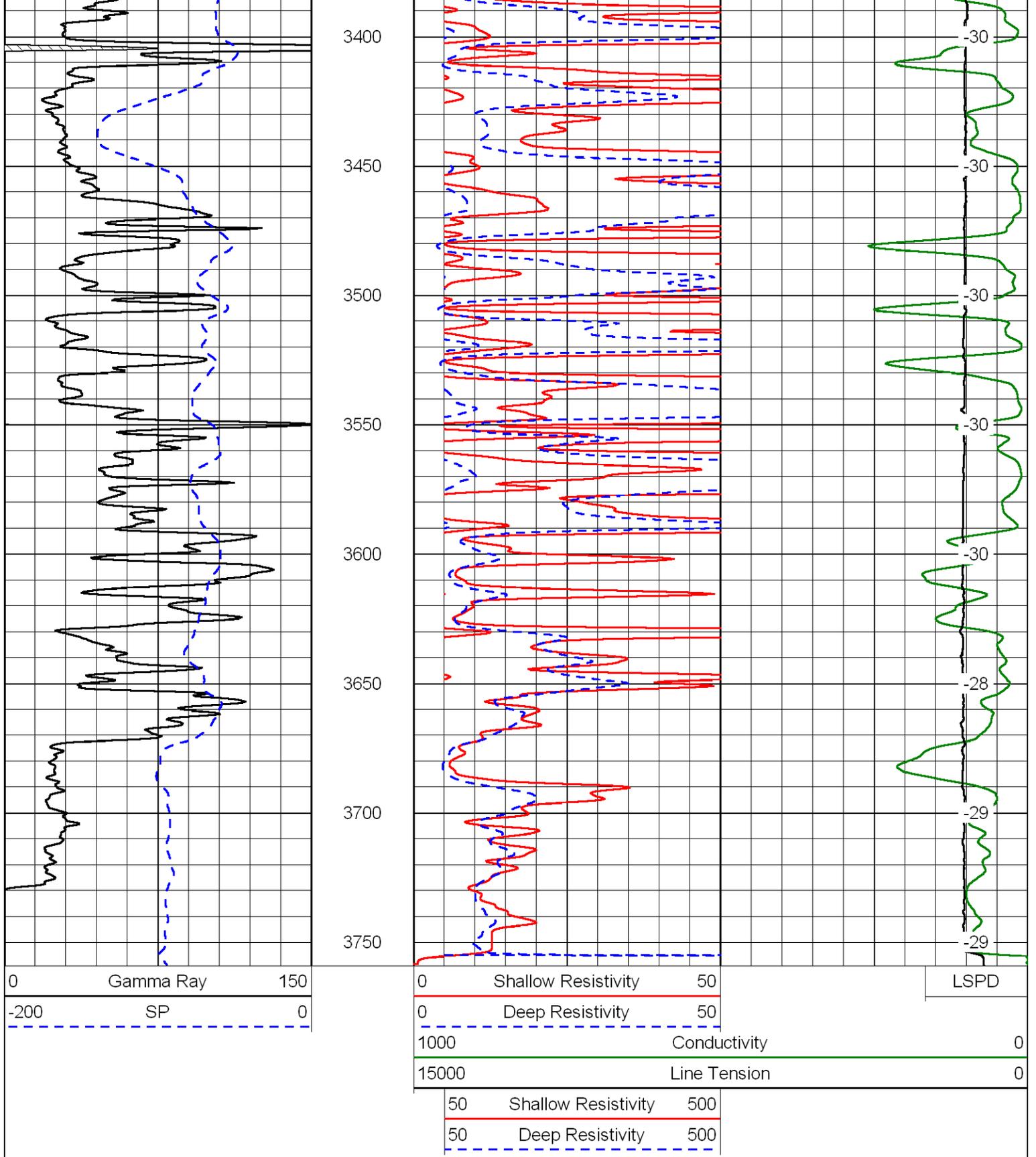


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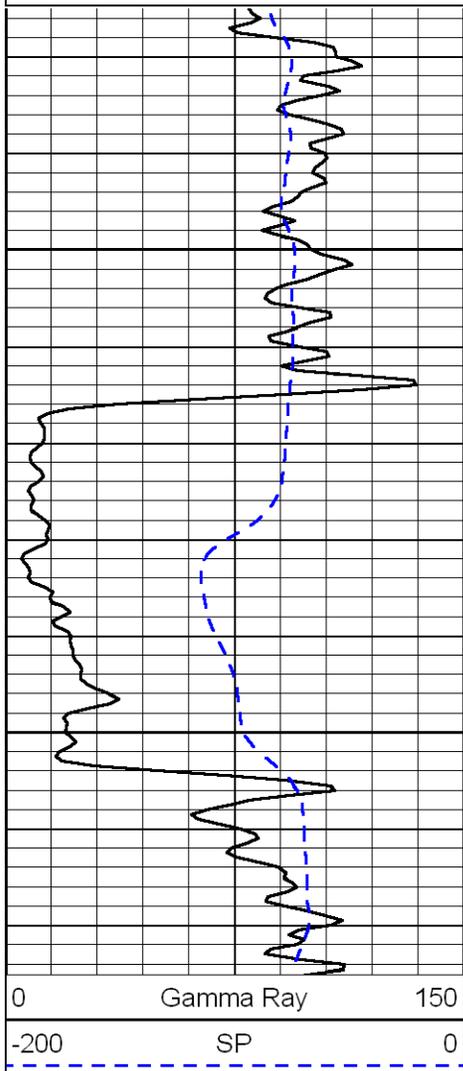


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Line Tension

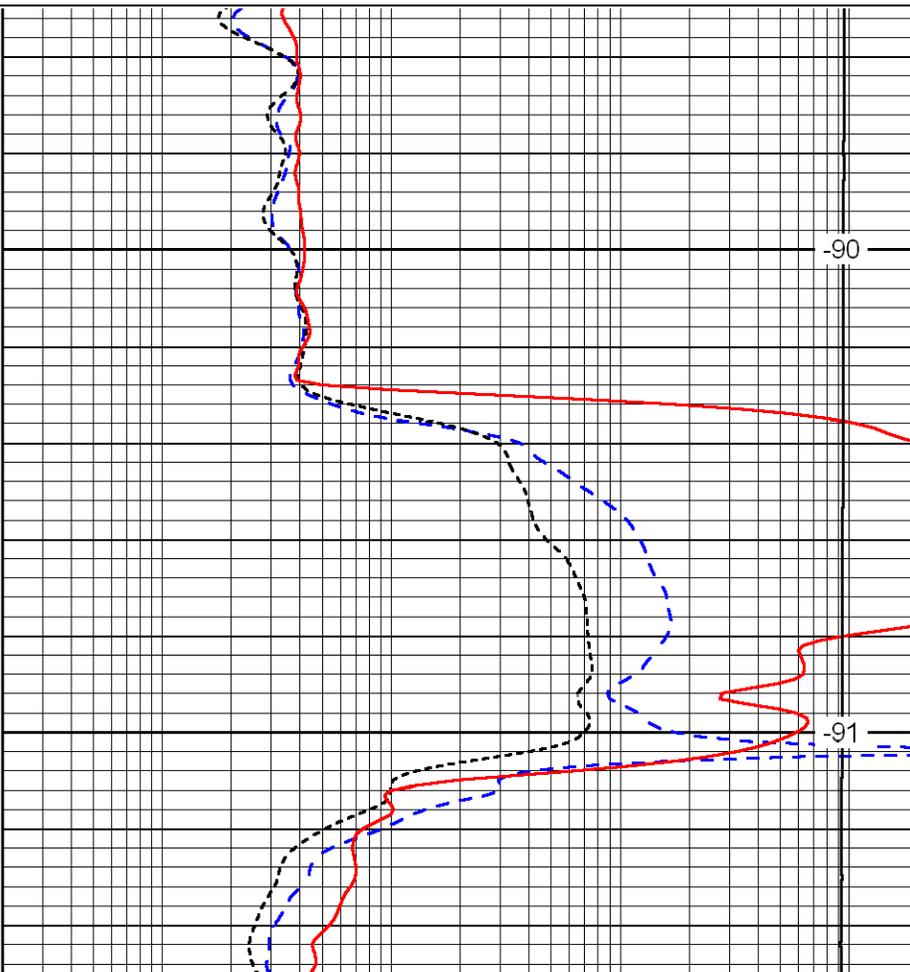
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LSPD



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1300



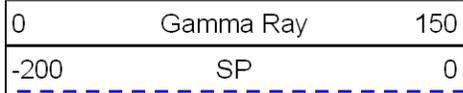
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10000	Line Tension	0

LSPD

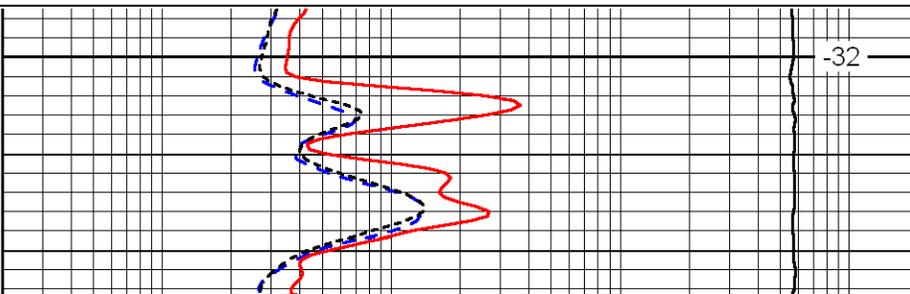
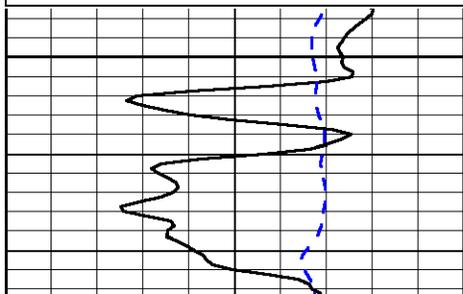
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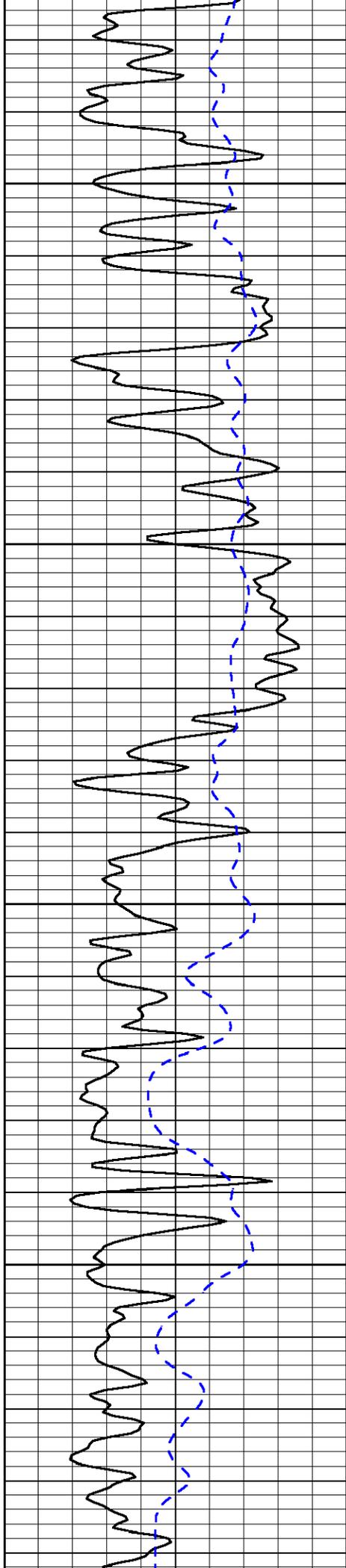
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0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD



-32

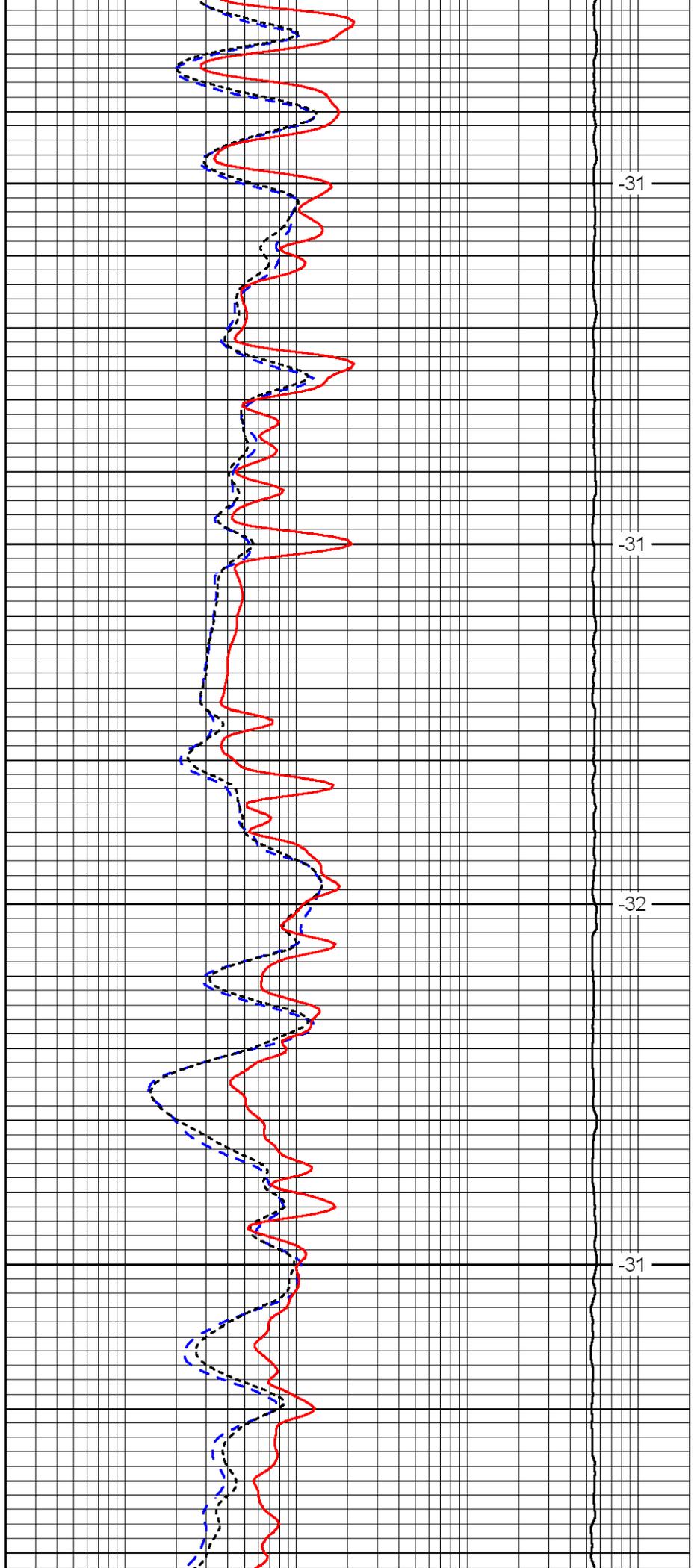


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3100

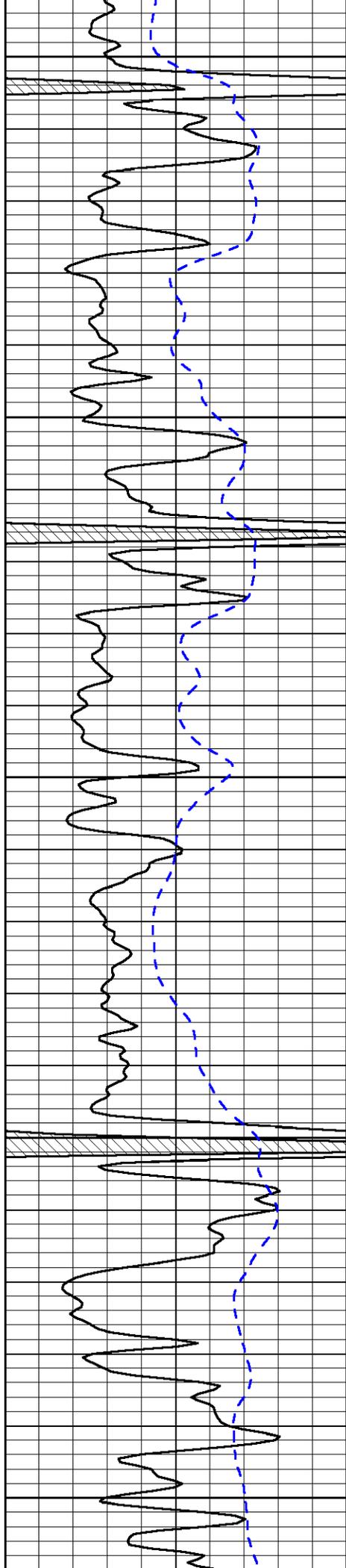


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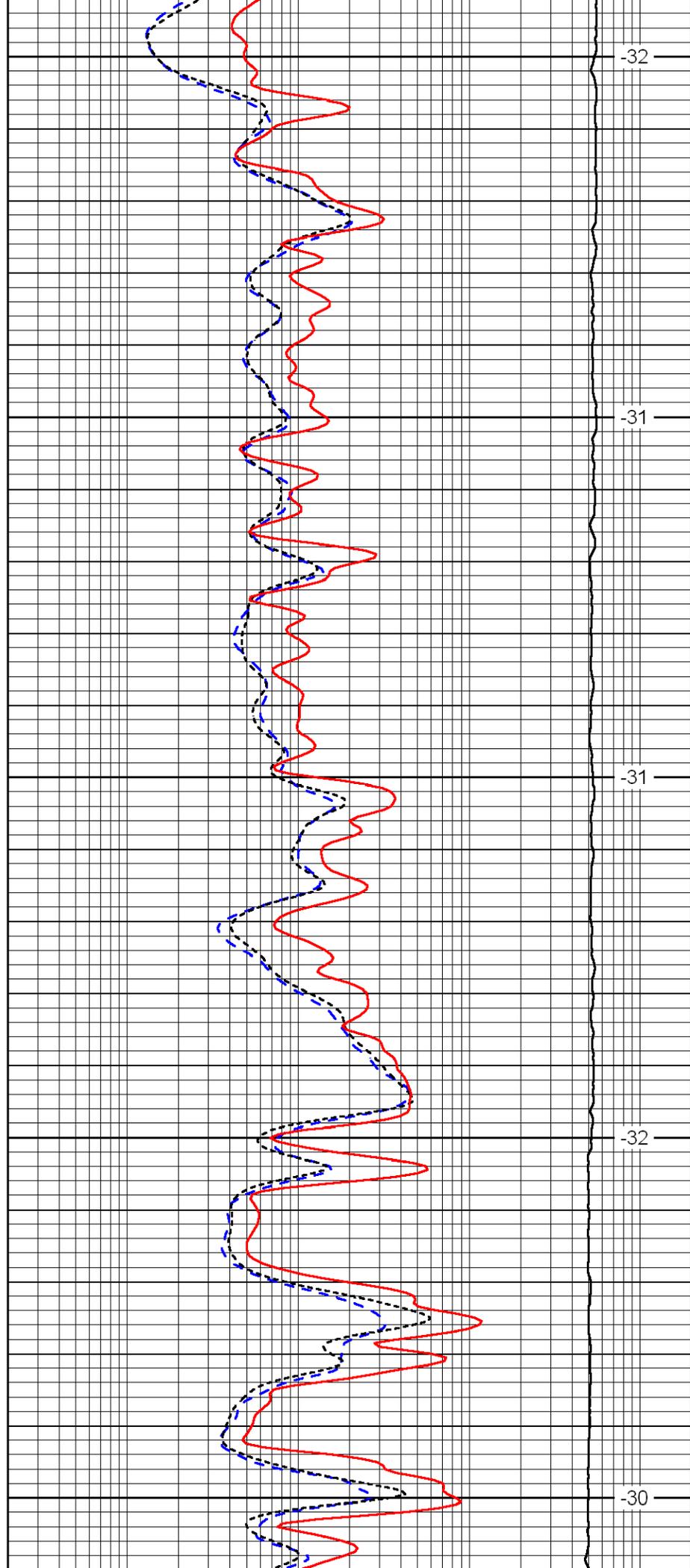
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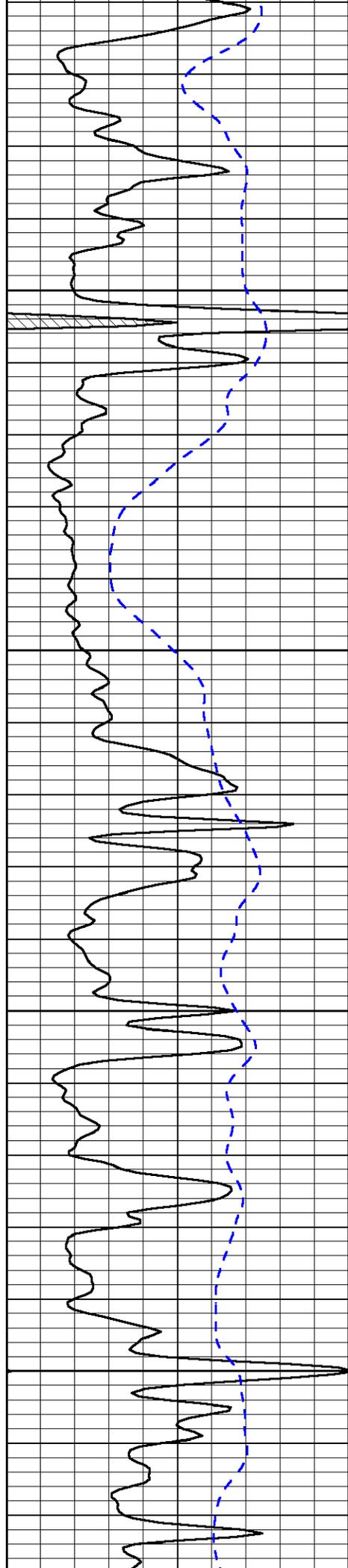
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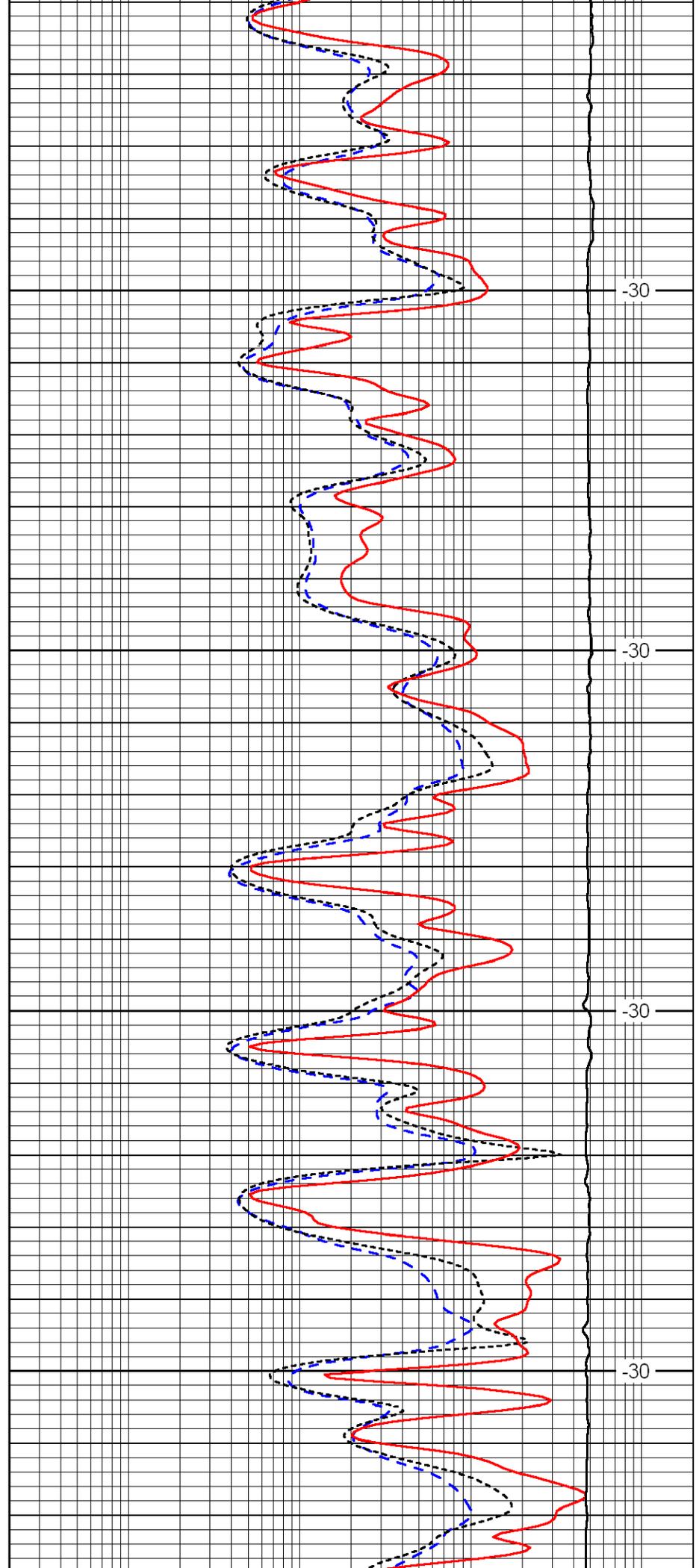


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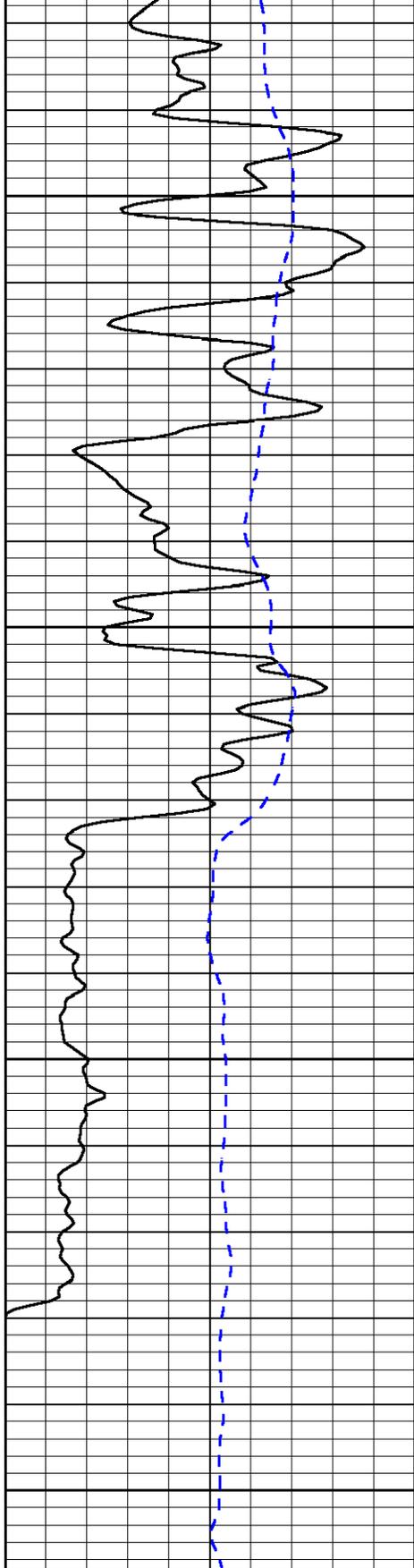


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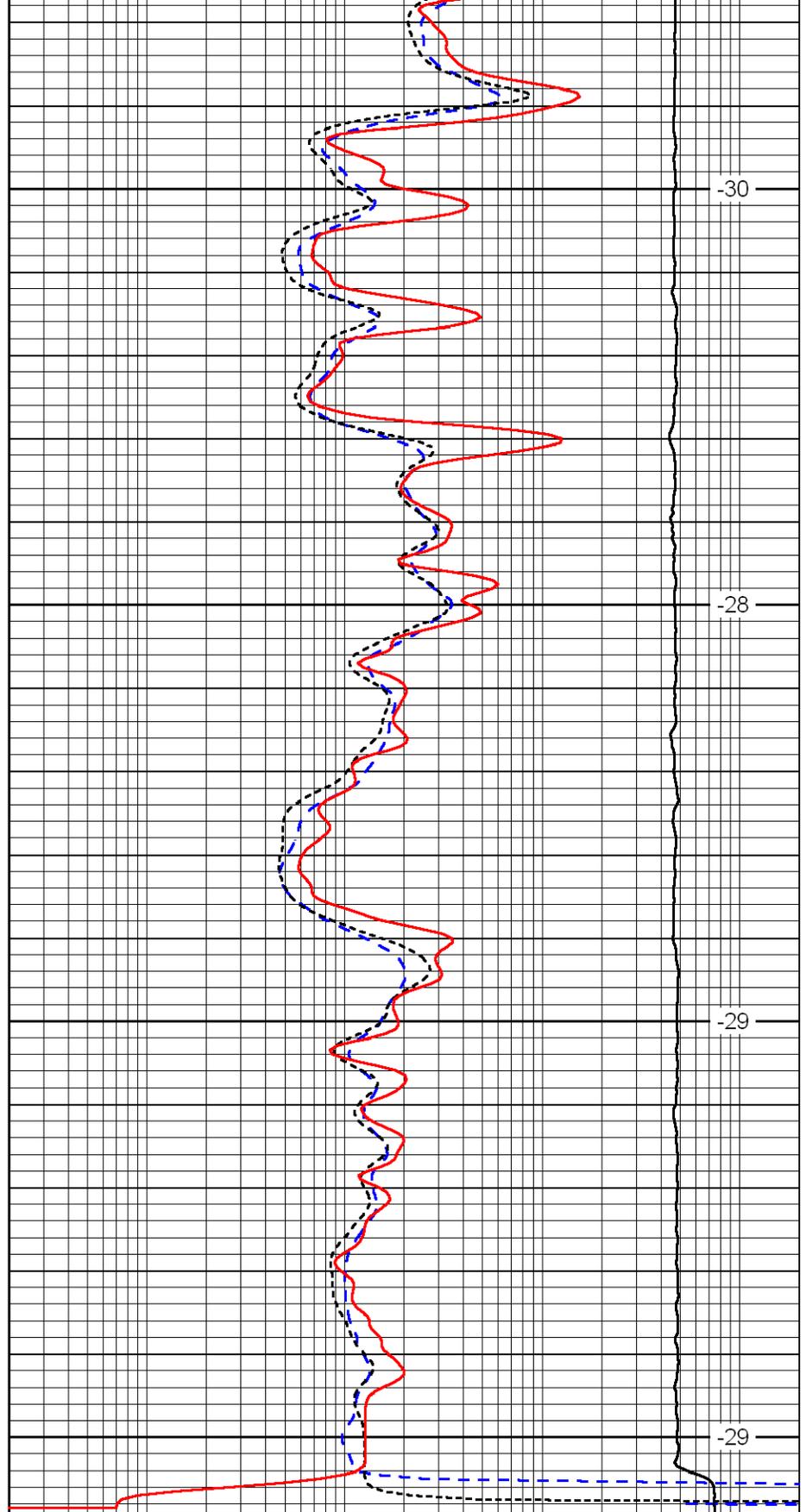
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3600  
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0 Gamma Ray 150  
-200 SP 0



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

LSPD