

# LOG-TECH



DIGITAL LOG (785) 625-3858

## Dual Induction Log

API No.	15-179-21,283-00-00	
Company	Pioneer Oil Company, Inc.	
Well	Schamberger No. 1	
Field	Freda	
County	Sheridan	State
		Kansas
Location	1086' FSL & 1179' FEL	
Sec: 33	Twp: 8 S	Rge: 28 W
Permanent Datum	Ground Level	Elevation 2670
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CDL/CNL MEL/BHCS
		Elevation K.B. 2675 D.F. 2670 G.L. 2670

Date	5/23/2012
Run Number	One
Depth Driller	4065
Depth Logger	4071
Bottom Logged Interval	4070
Top Log Interval	200
Casing Driller	8.625 @ 220
Casing Logger	220
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	4.600
Density / Viscosity	9.4 56
pH / Fluid Loss	10.5 7.2
Source of Sample	Flowline
Rm @ Meas. Temp	.55 @ 77
Rmf @ Meas. Temp	.41 @ 77
Rmc @ Meas. Temp	.74 @ 77
Source of Rmf / Rmc	Charts
Rm @ BHT	.36 @ 117
Operating Rig Time	4 1/2 Hours
Max Rec. Temp. F	117
Equipment Number	17
Location	Hays
Recorded By	D. Martin
Witnessed By	Kurt Talbott

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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  
  
 Hoxie, KS  
 3 S, 1/10 W, N Into

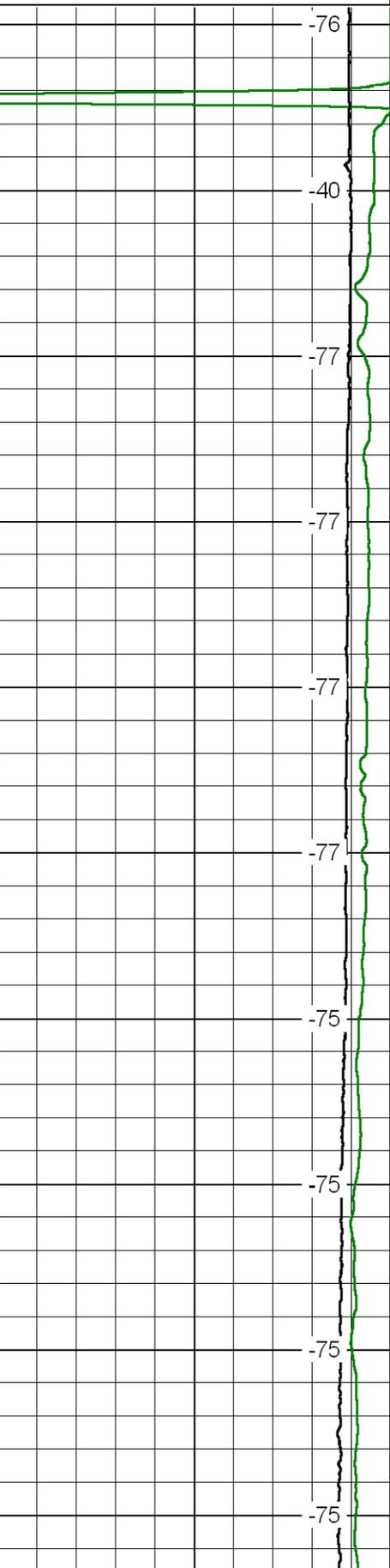
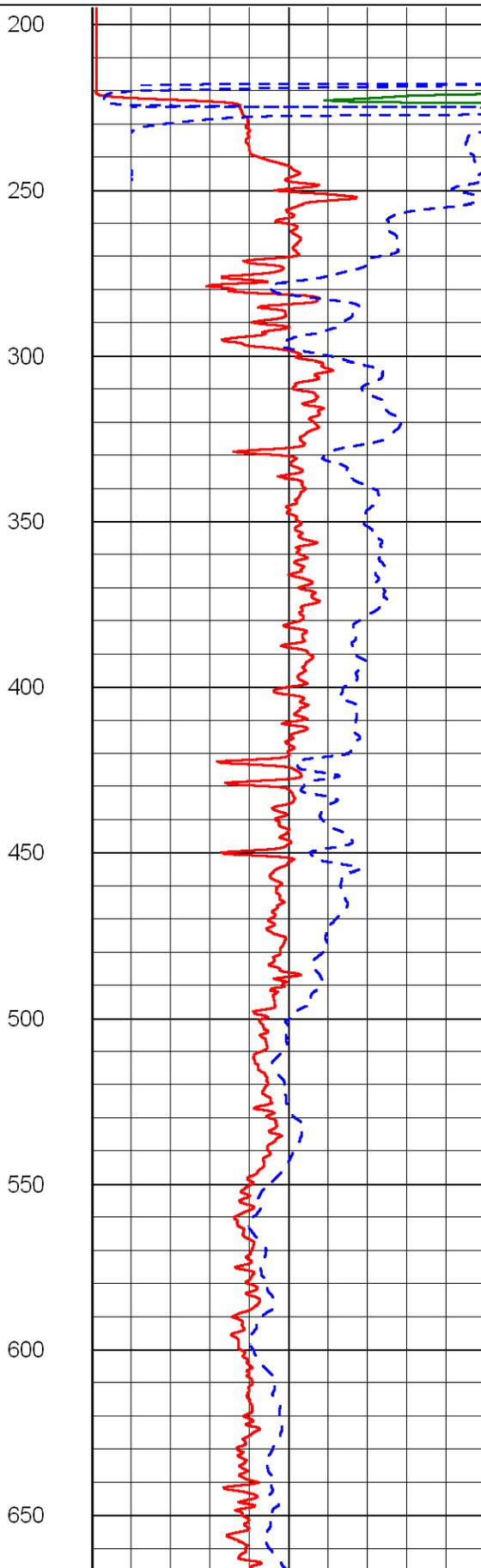
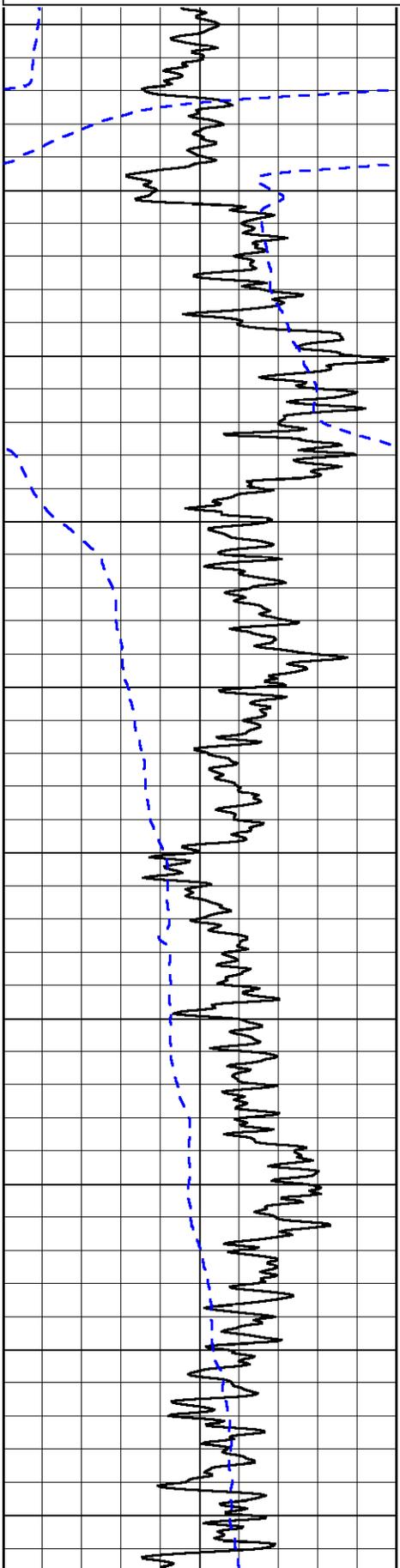
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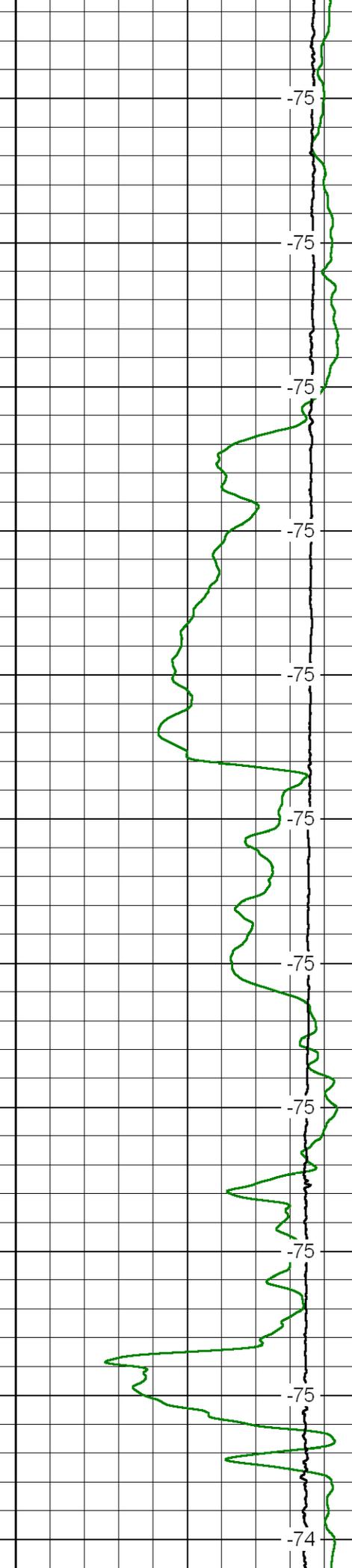
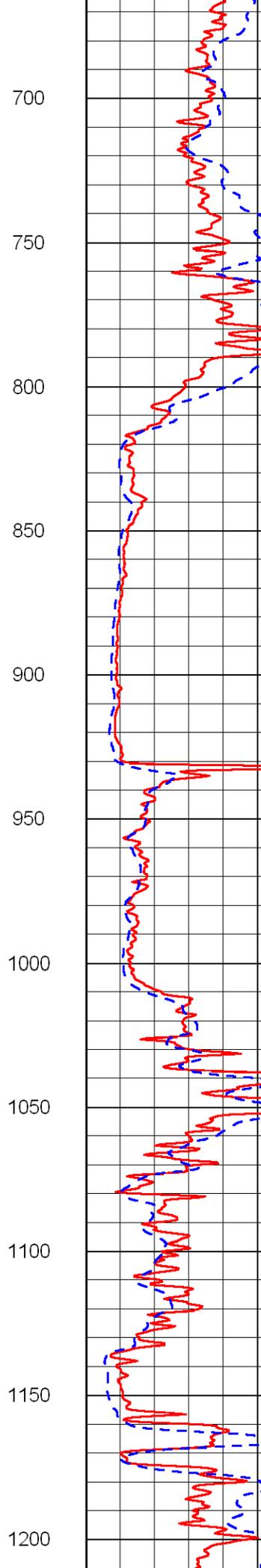
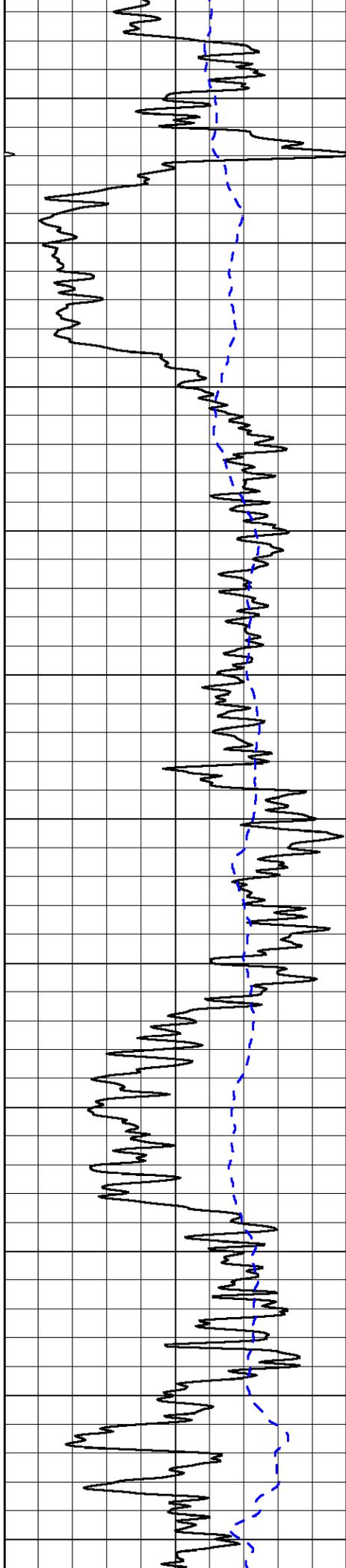
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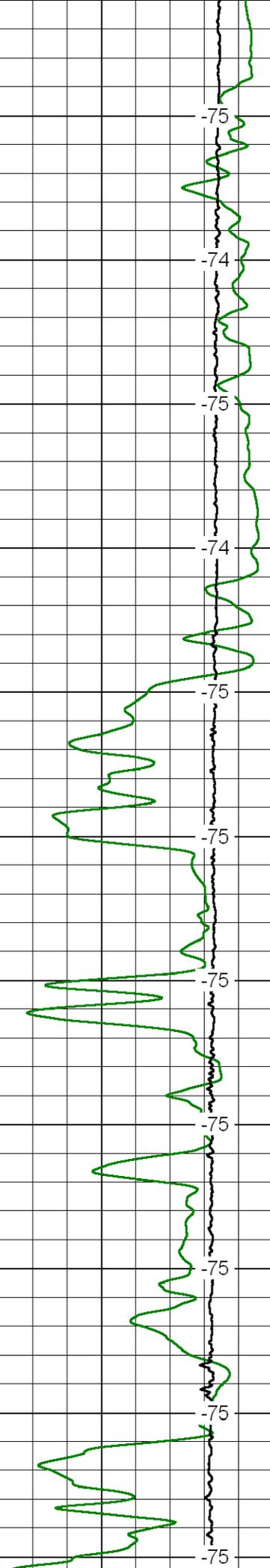
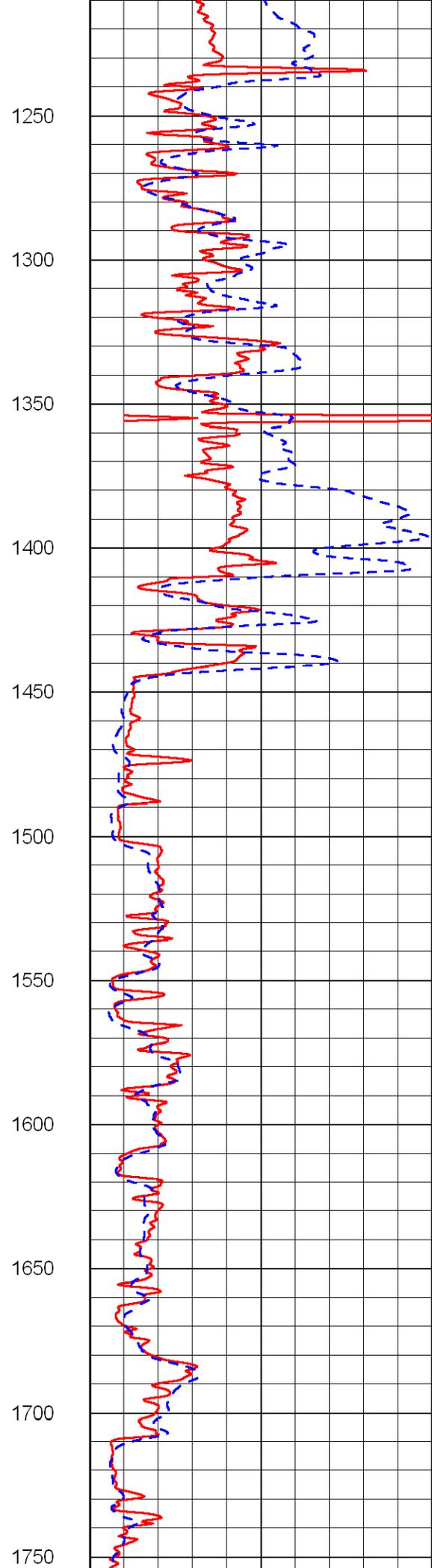
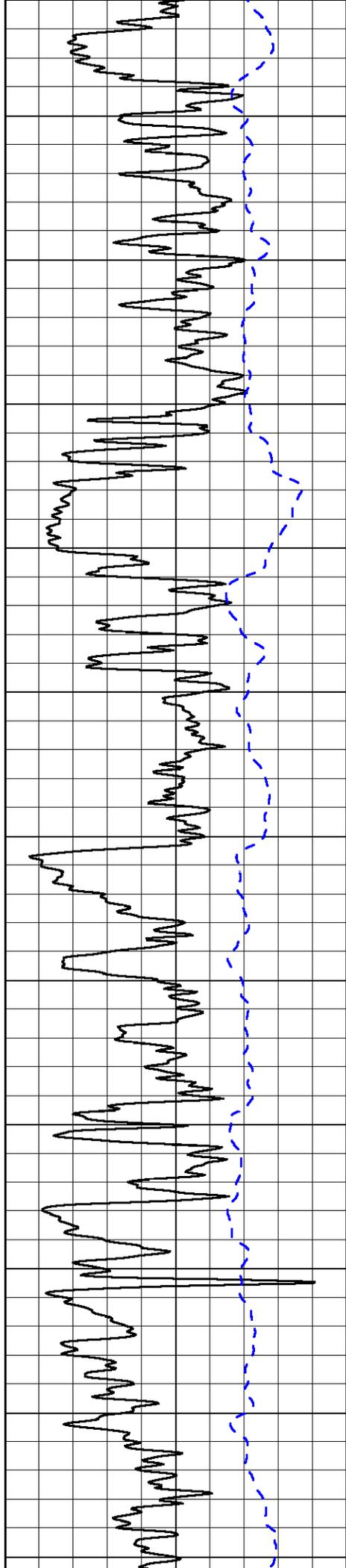
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15000	Line Tension	0

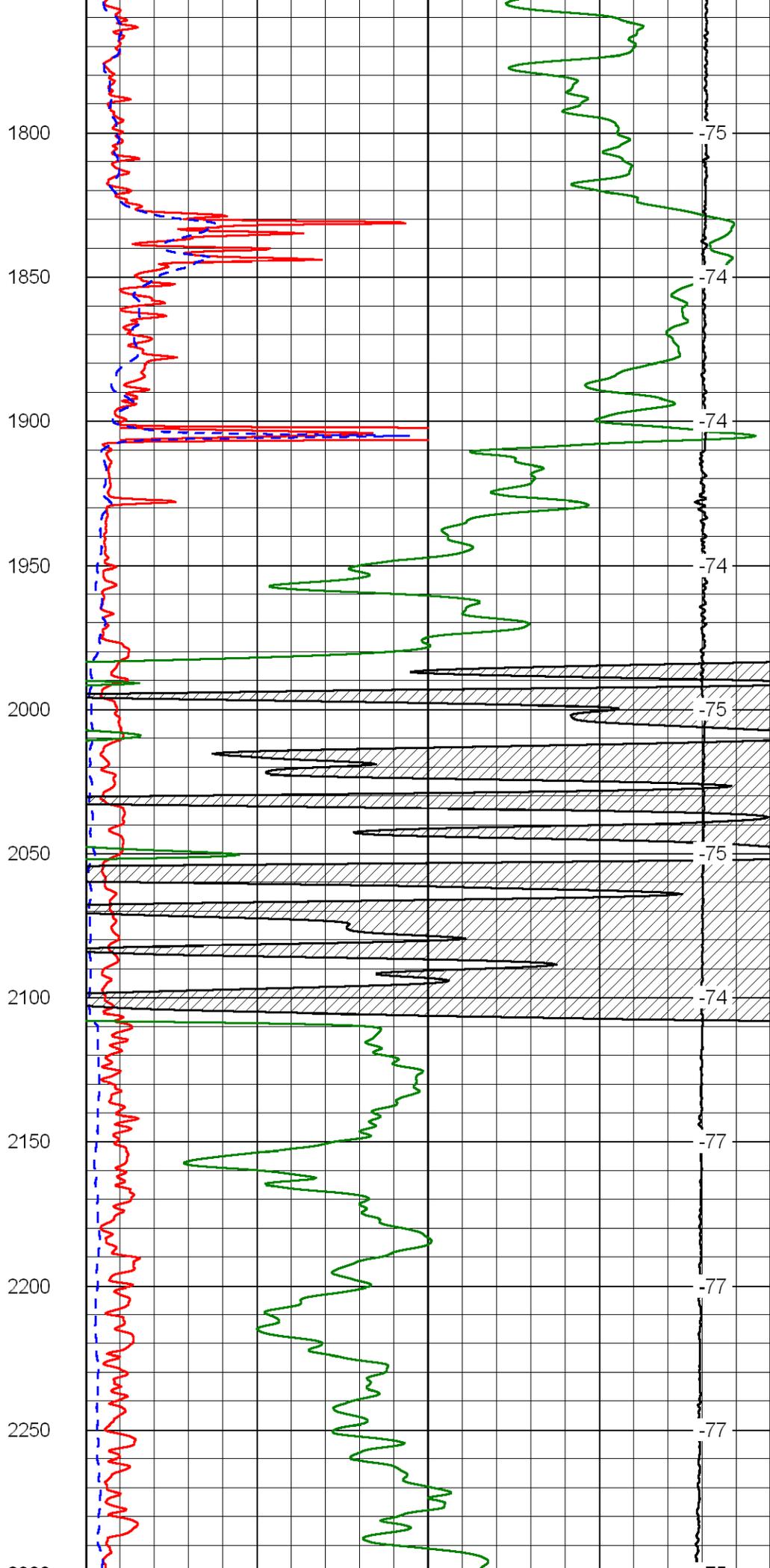
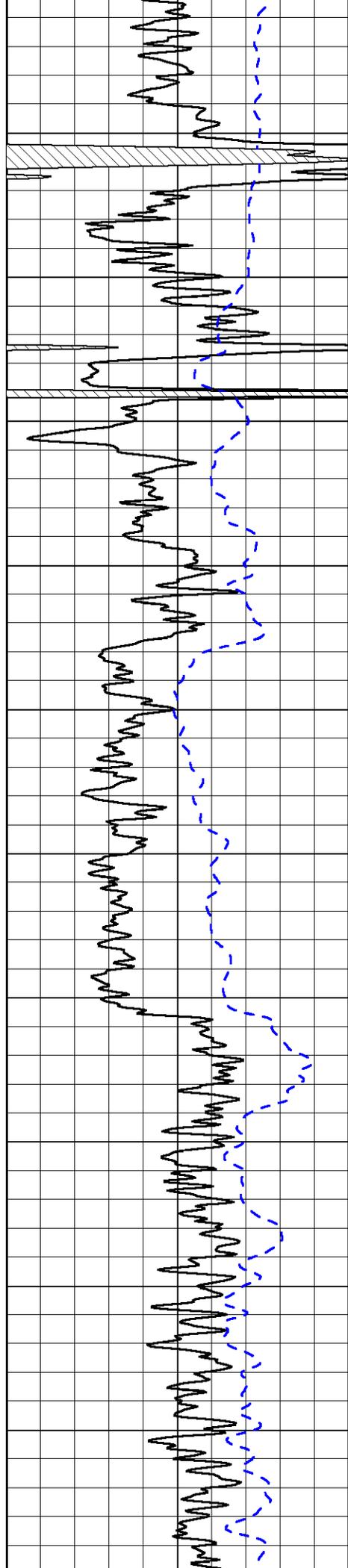
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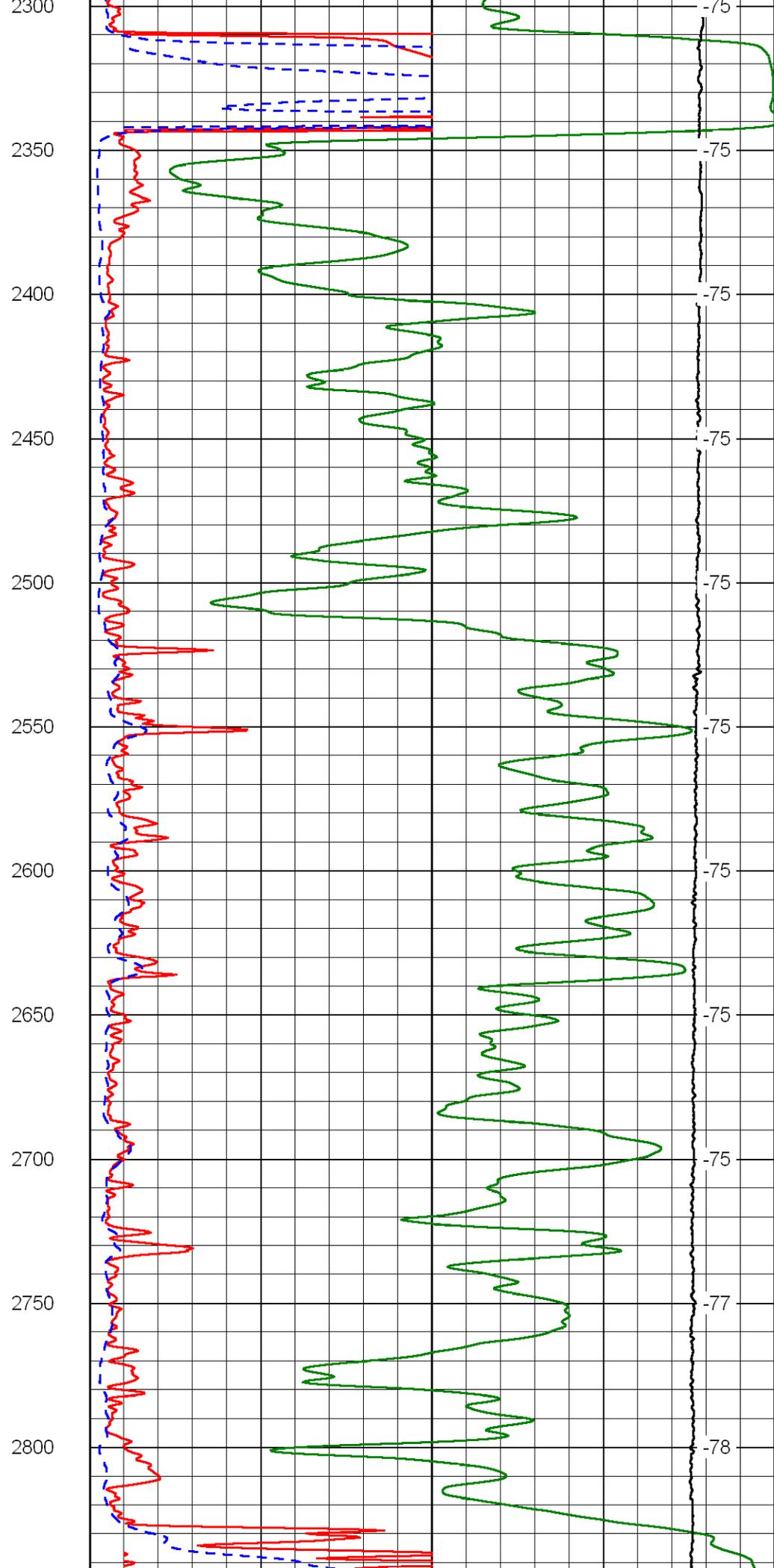
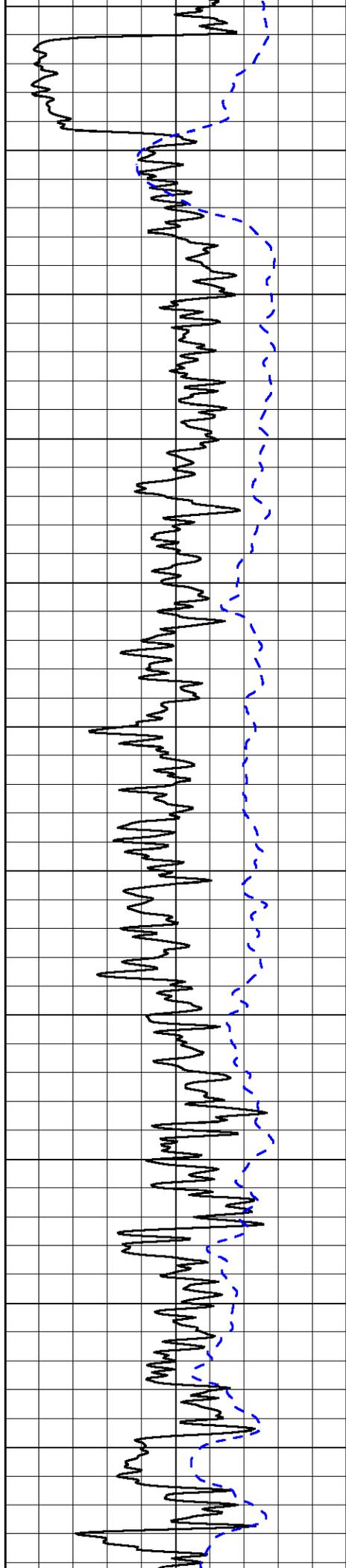
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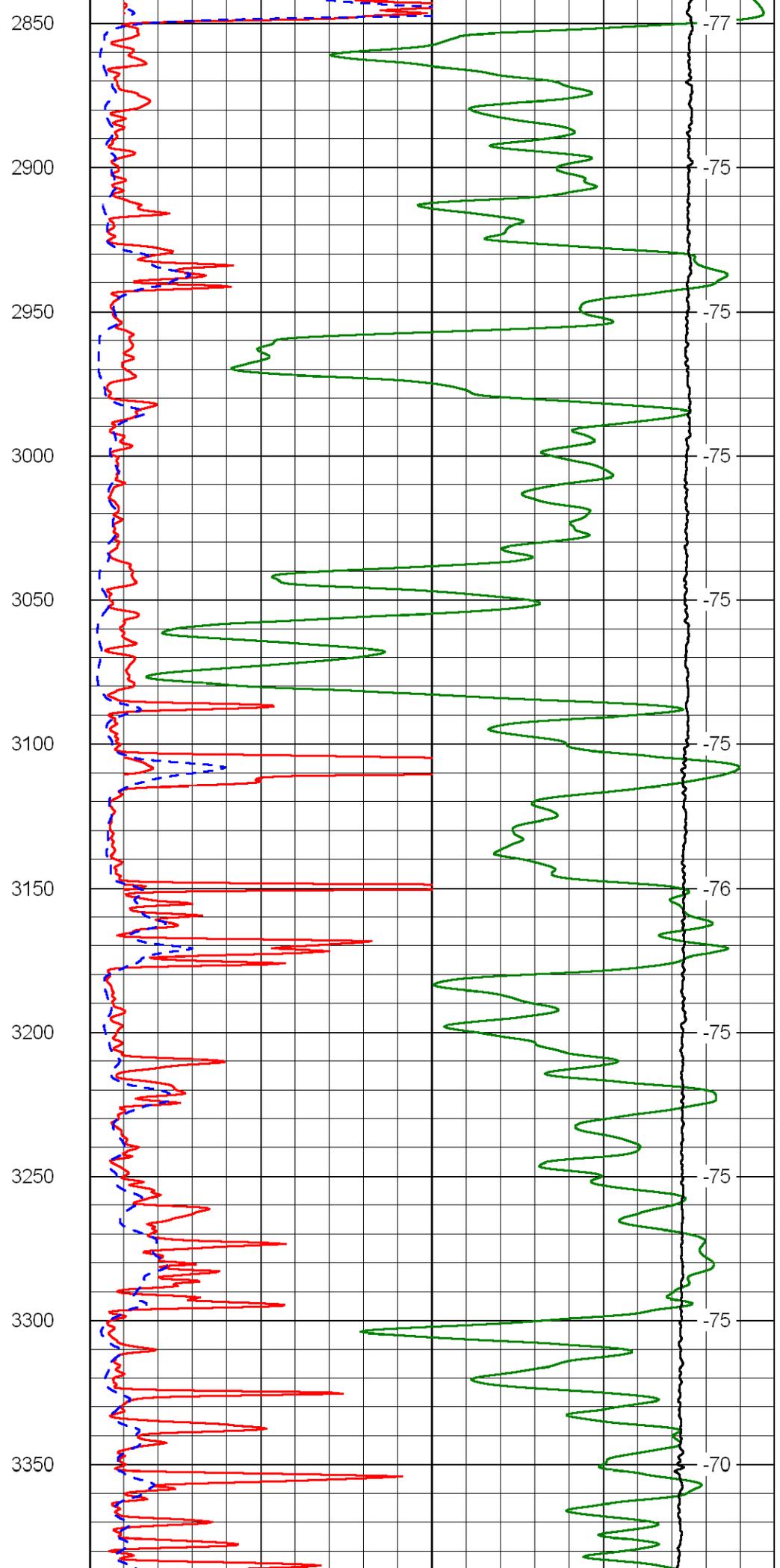
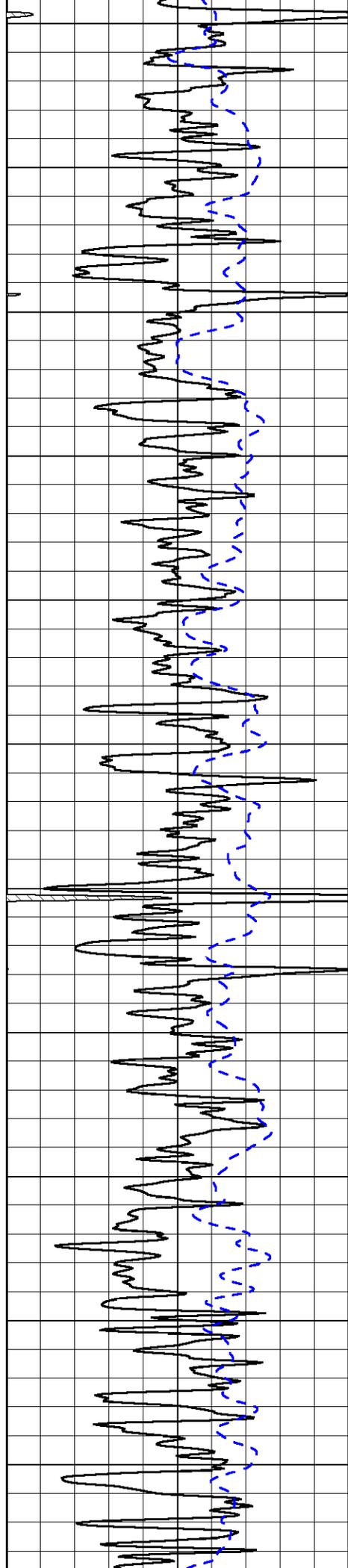


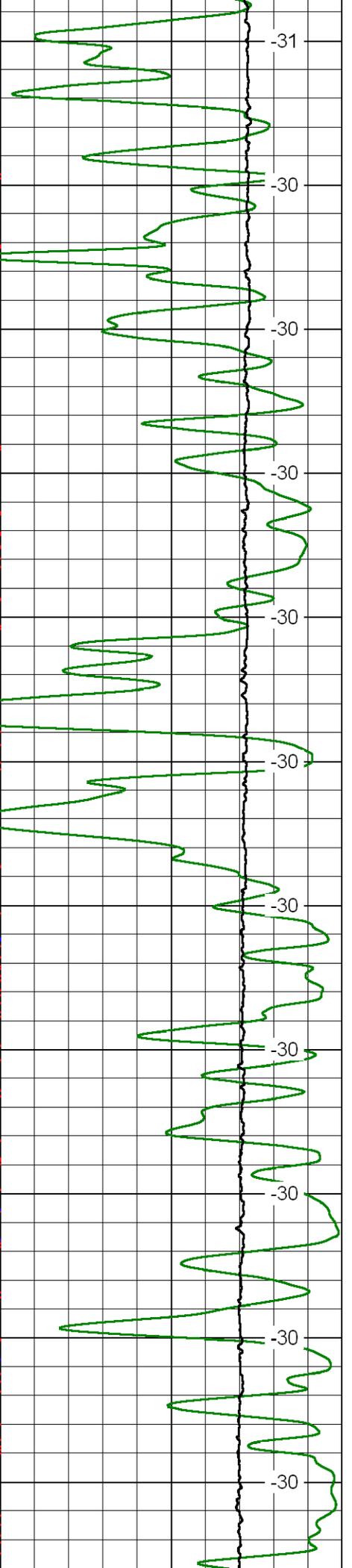
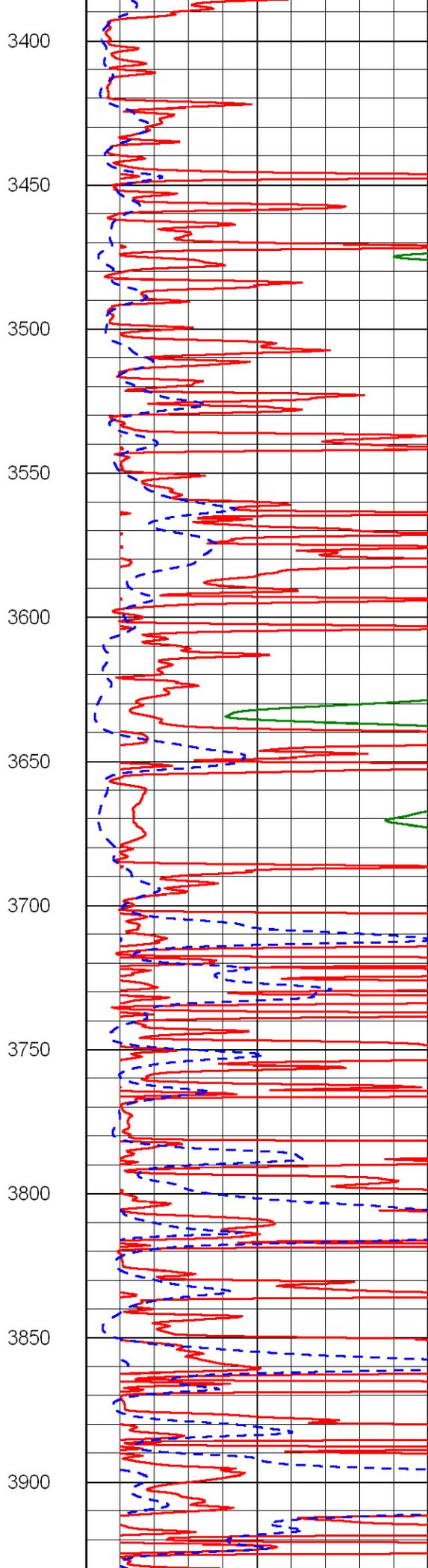
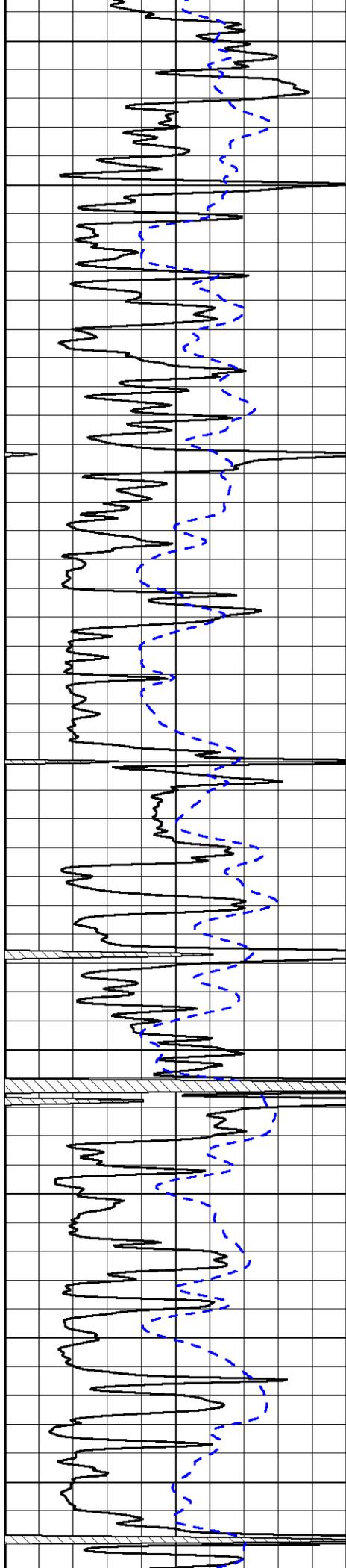


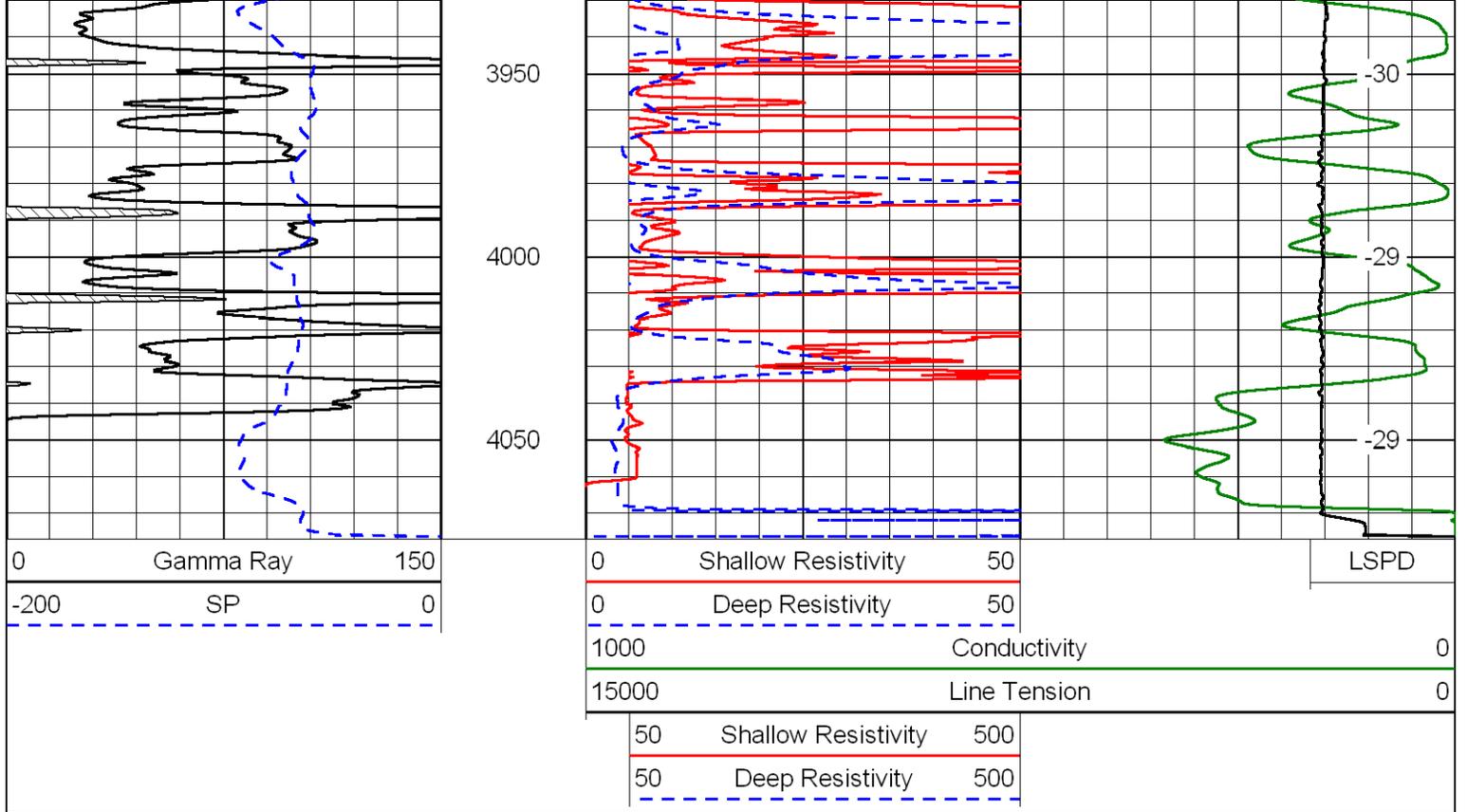




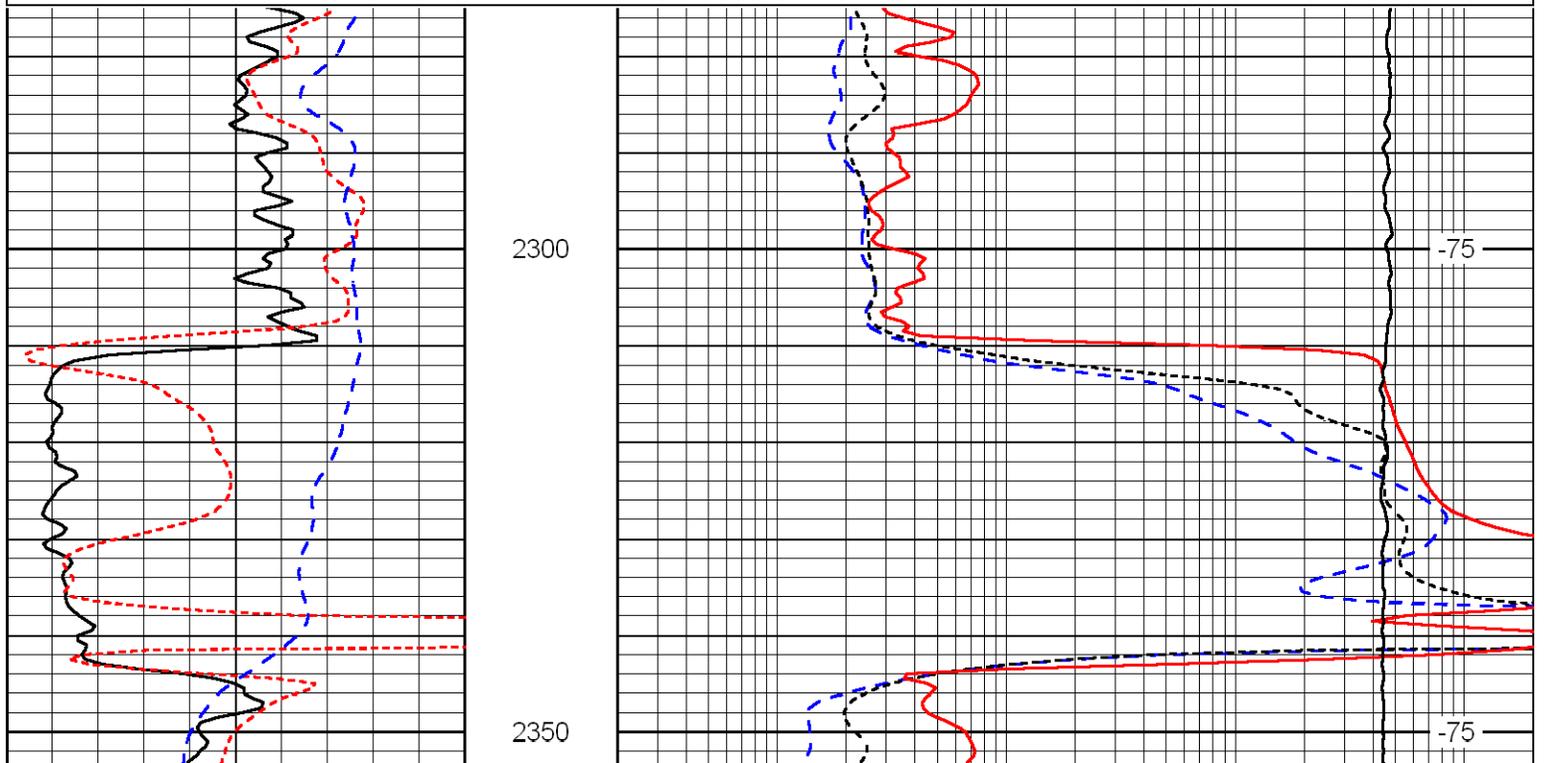
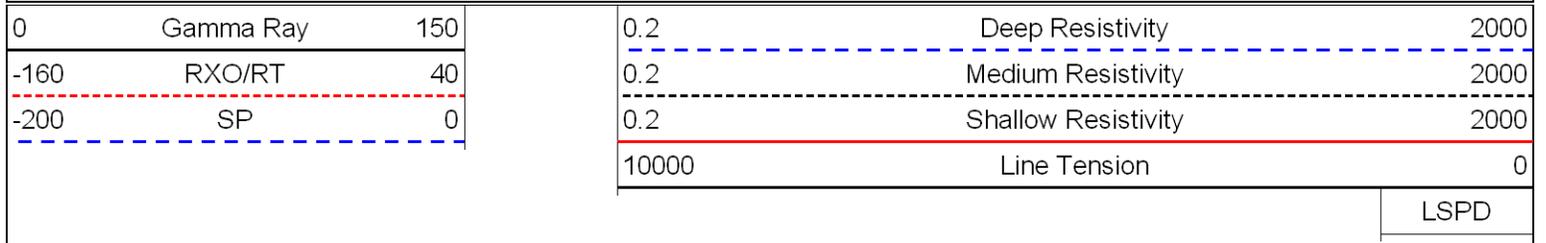


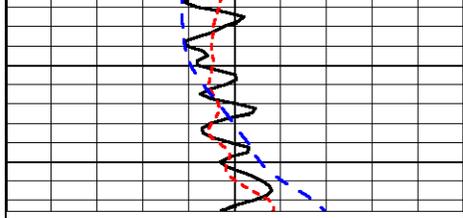




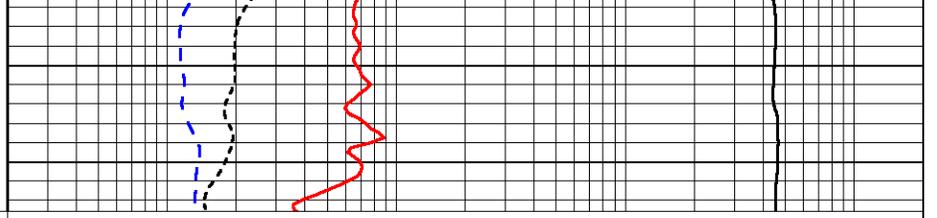


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 Charted by: Depth in Feet scaled 1:240





0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0



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

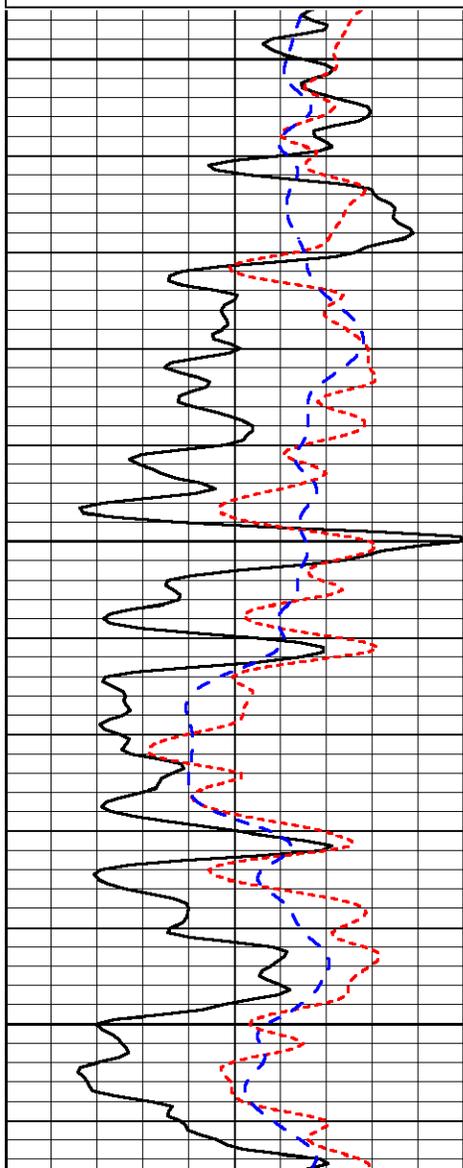
LSPD

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-160	RXO/RT	40
-200	SP	0

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

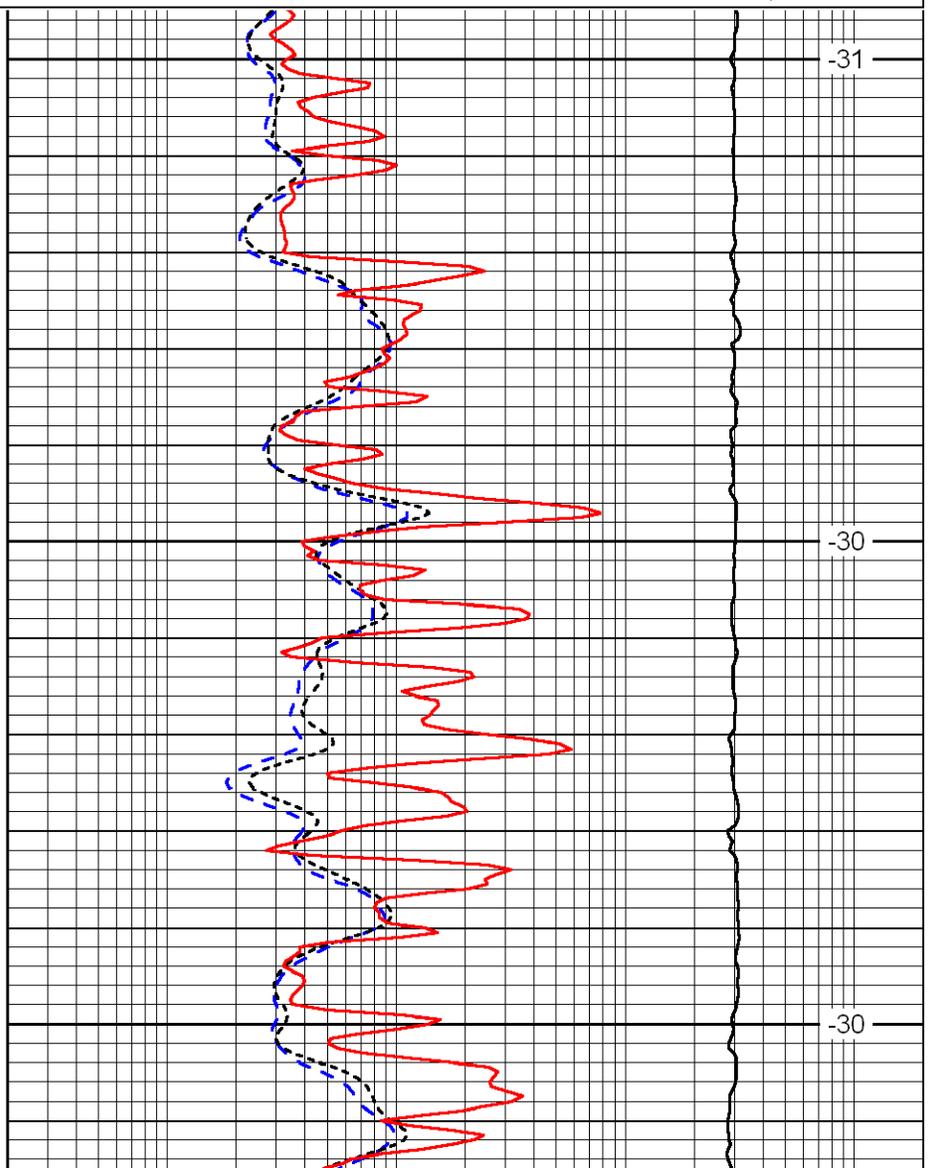
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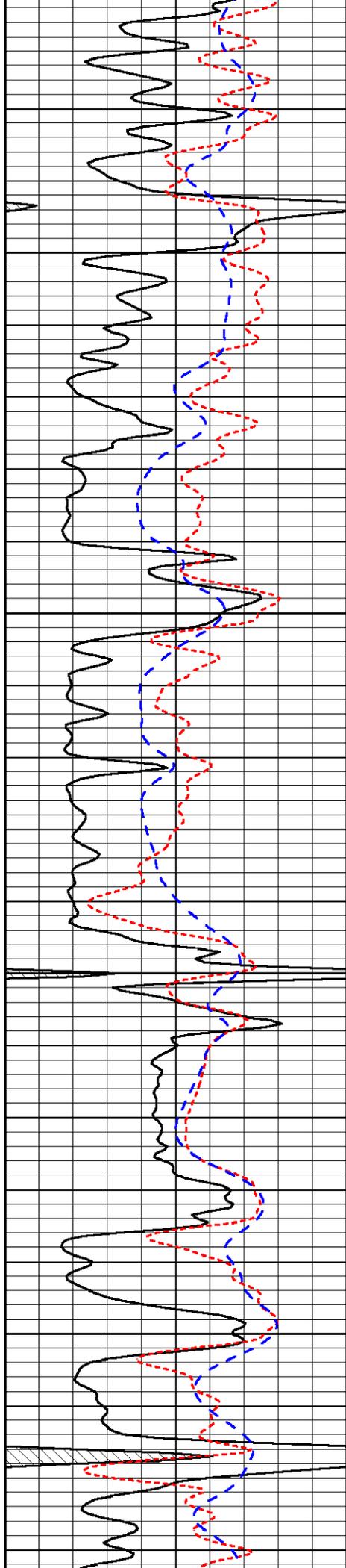
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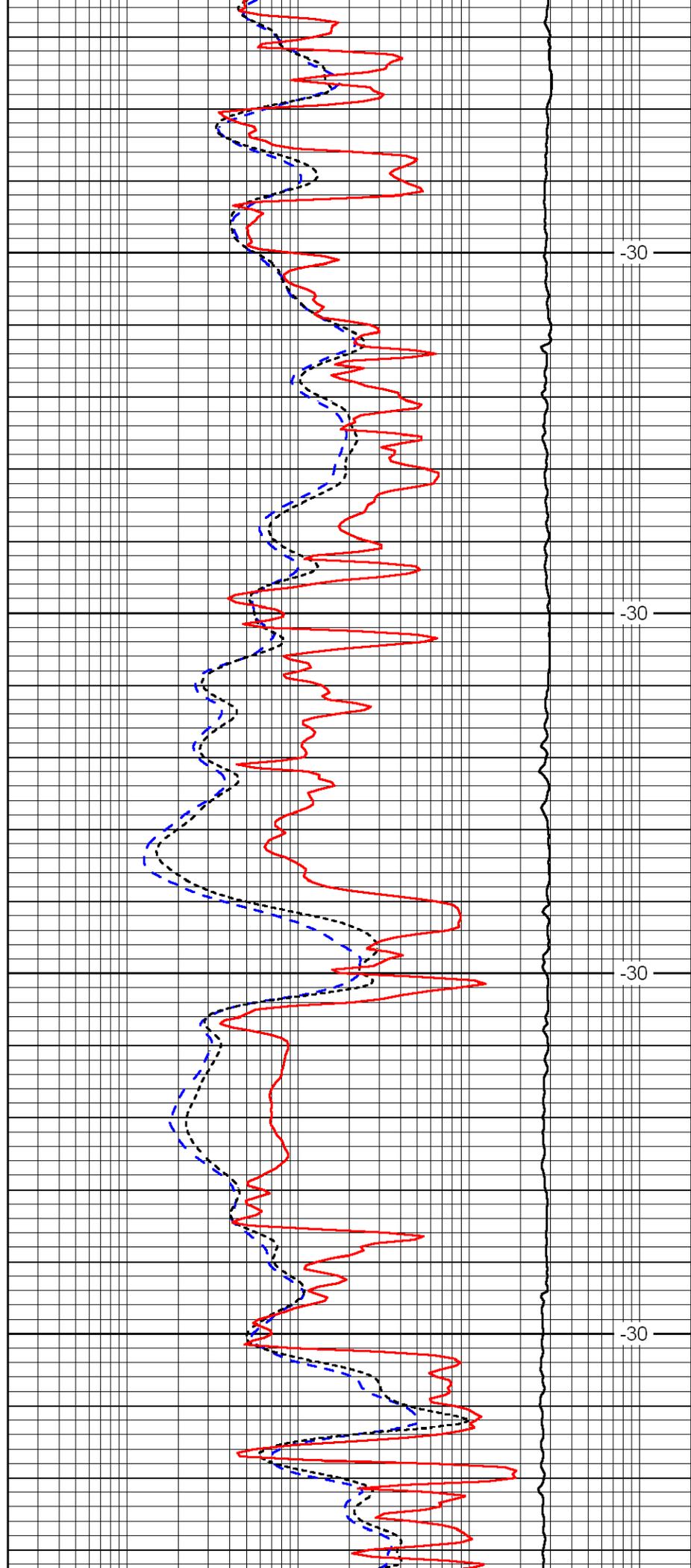


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3700

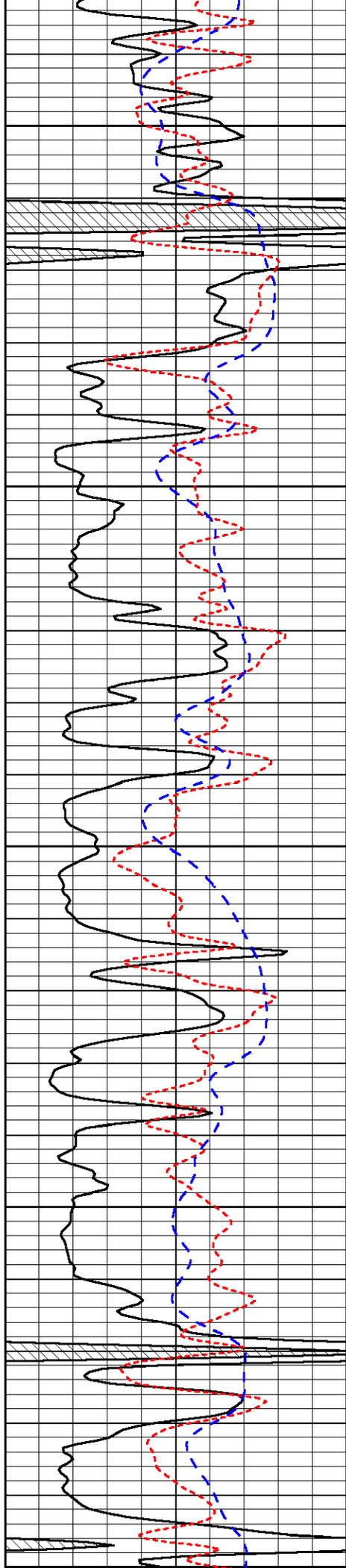


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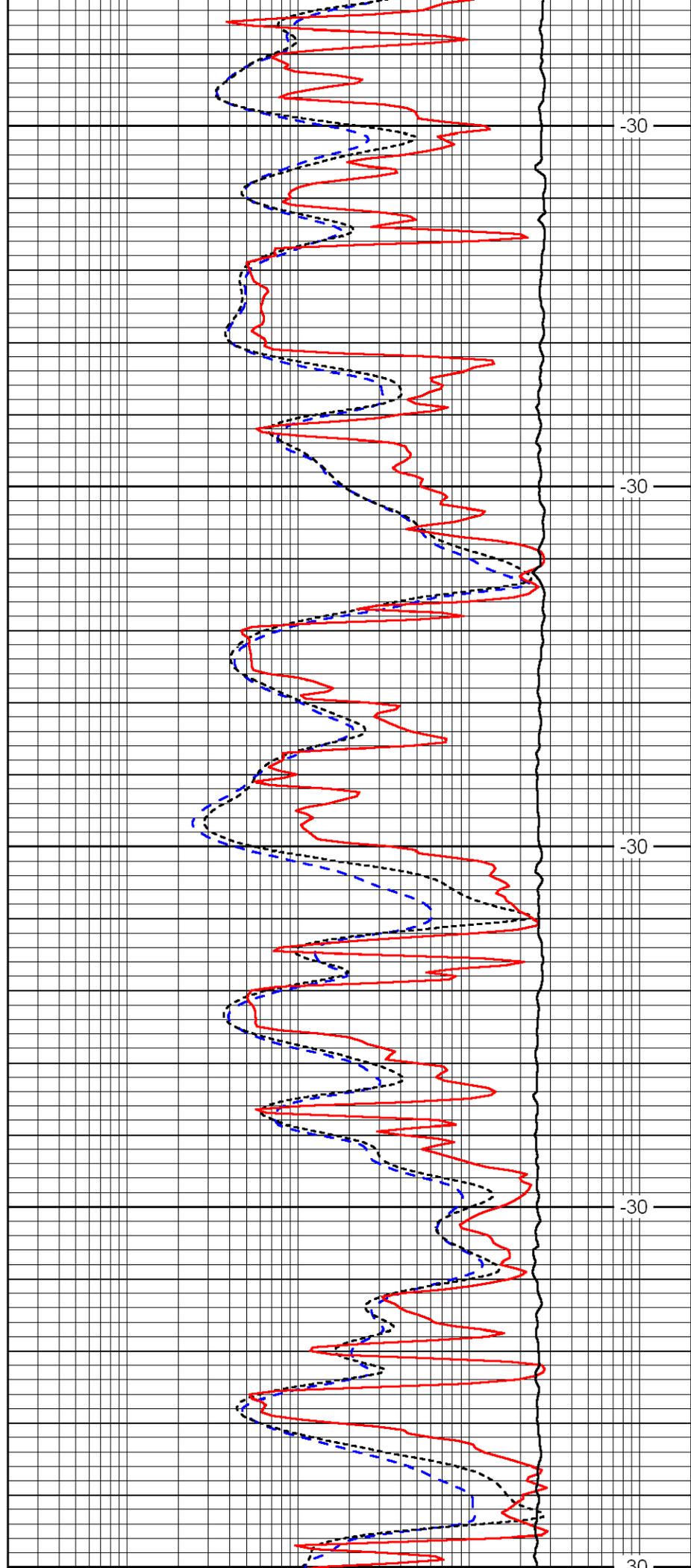
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3850

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3950



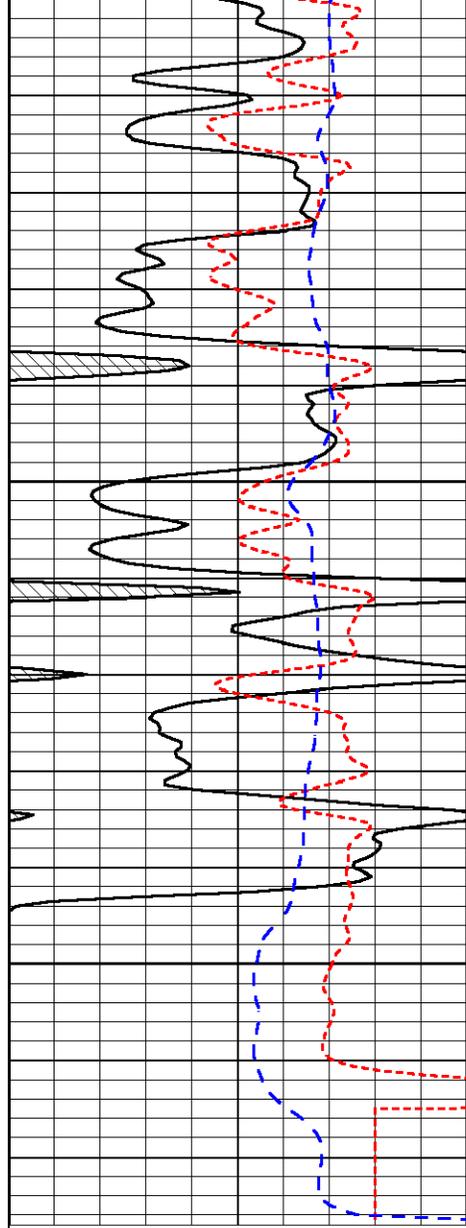
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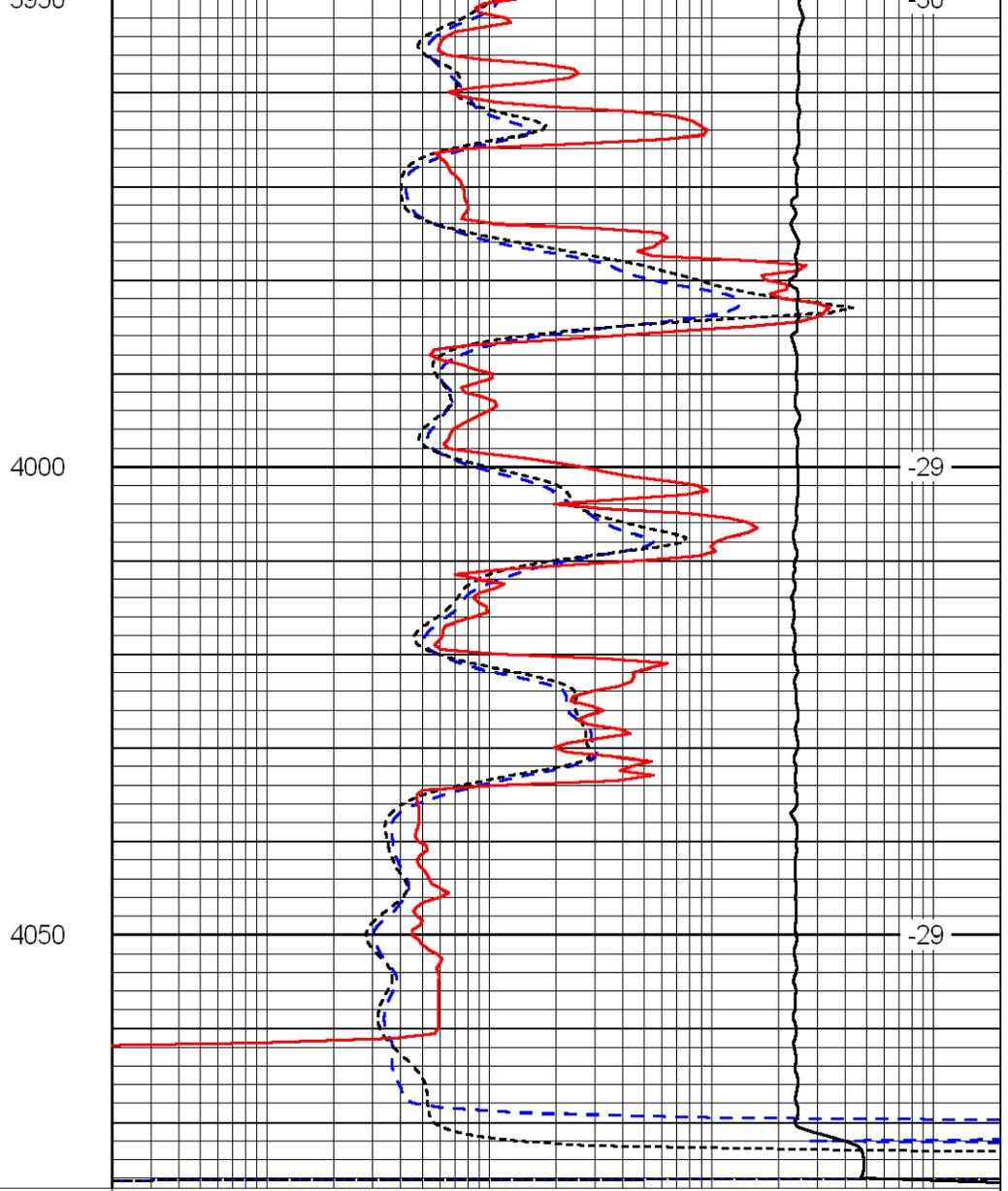
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0.2	Shallow Resistivity	2000
10000	Line Tension	0

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