



Pioneer Energy Services

Dual Induction Log

API No.	15-155-21603-00-00		
Company	Kantor Oil Company, LLC		
Well	Carmicheal "A" #3		
Field	Burton		
County	Reno	State	Kansas
Location	NW/NW SW/4 2970' FNL / 330' FWL		
Sec: 10	Twp: 24S	Rge: 4W	Other Services CNL / CDL MEL

Permanent Datum	Ground Level	Elevation 1469
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	1/3/2013	
Run Number	One	
Depth Driller	3918	
Depth Logger	3916	
Bottom Logged Interval	3915	
Top Log Interval	300	
Casing Driller	13.375 @ 307	
Casing Logger	305	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	1600	
Density / Viscosity	9.3	54
pH / Fluid Loss	11.0	6.0
Source of Sample	Flowline	
Rm @ Meas. Temp	1.50 @ 60	
Rmf @ Meas. Temp	1.13 @ 60	
Rmc @ Meas. Temp	2.03 @ 60	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.78 @ 115	
Operating Rig Time	4 Hours	
Max Rec. Temp. F	115	
Equipment Number	15	
Location	Hays	
Recorded By	R. Barnhart	
Witnessed By	Larry Ressler	

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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

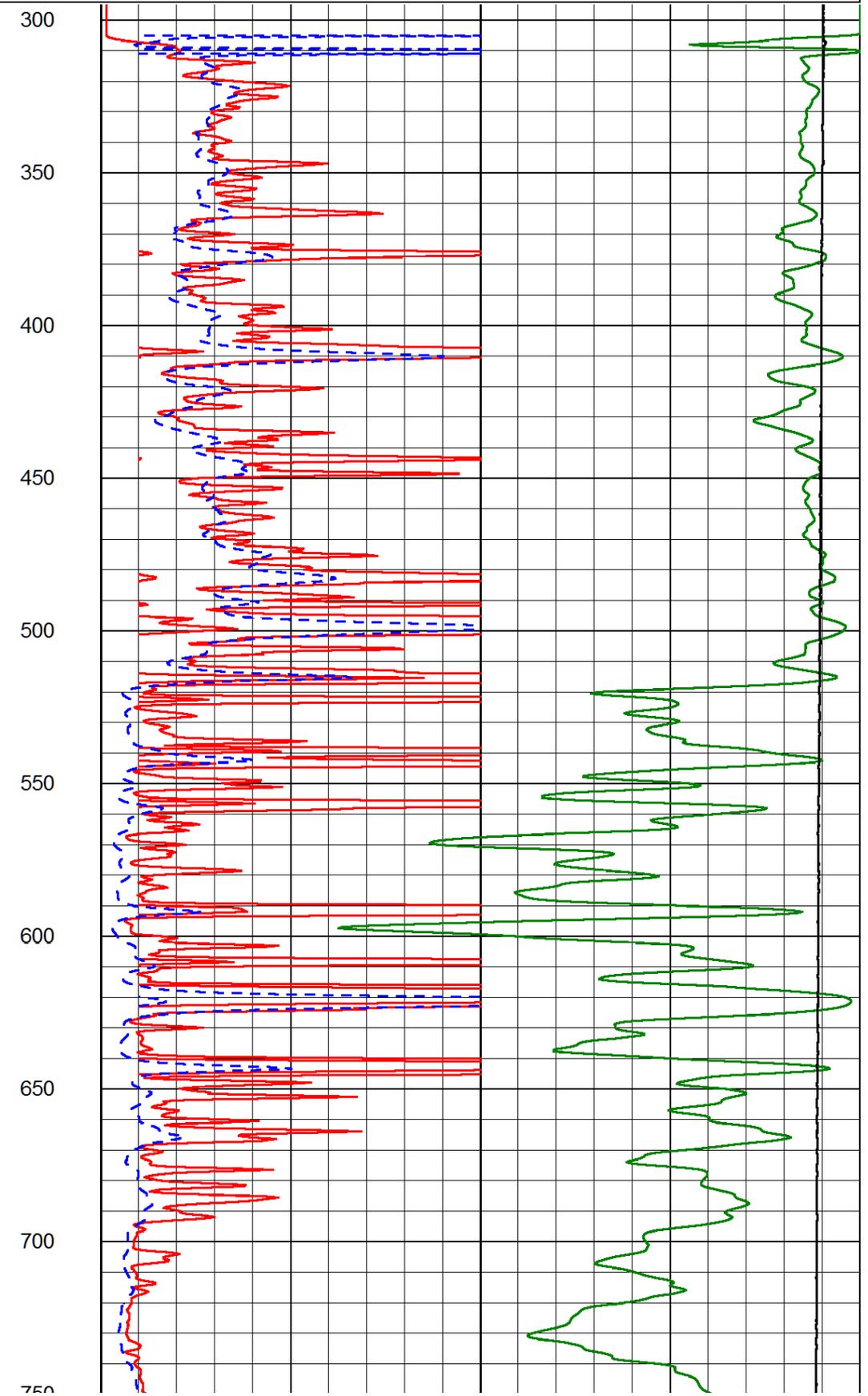
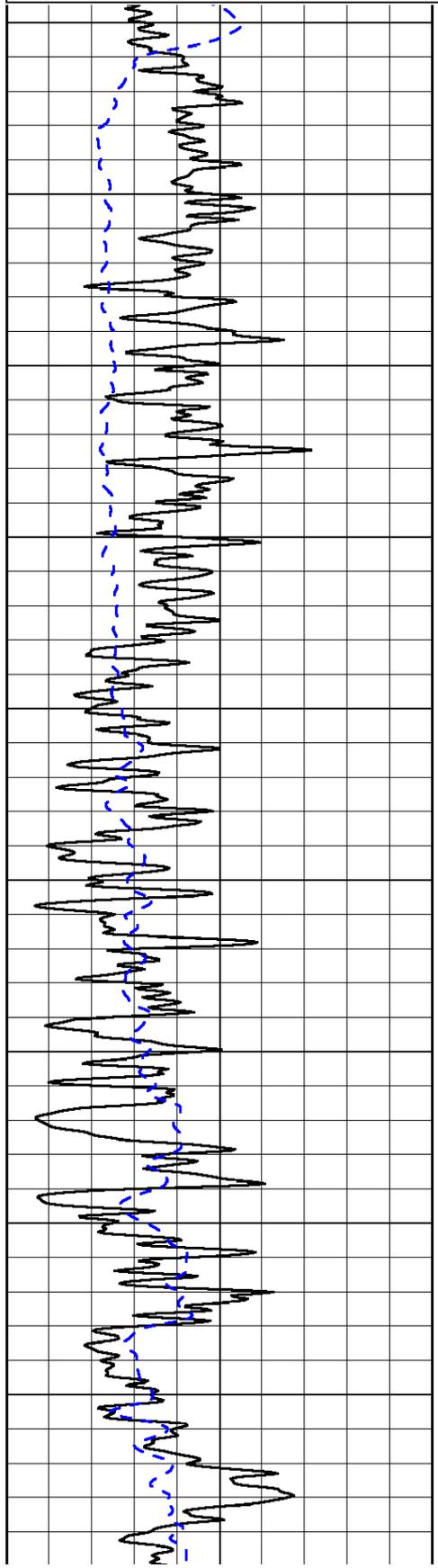
Thank you for using Log-Tech, Inc.
(785) 625-3858

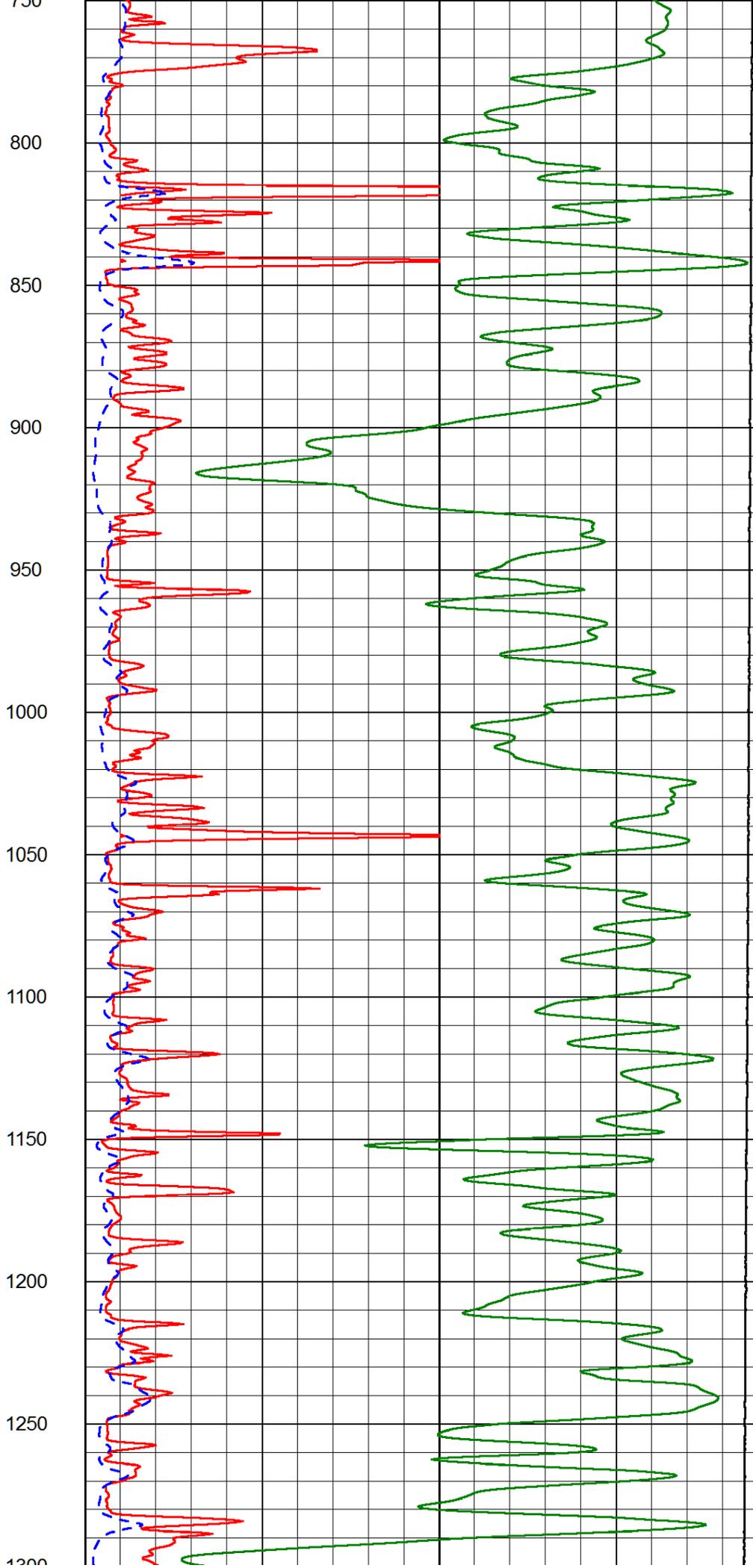
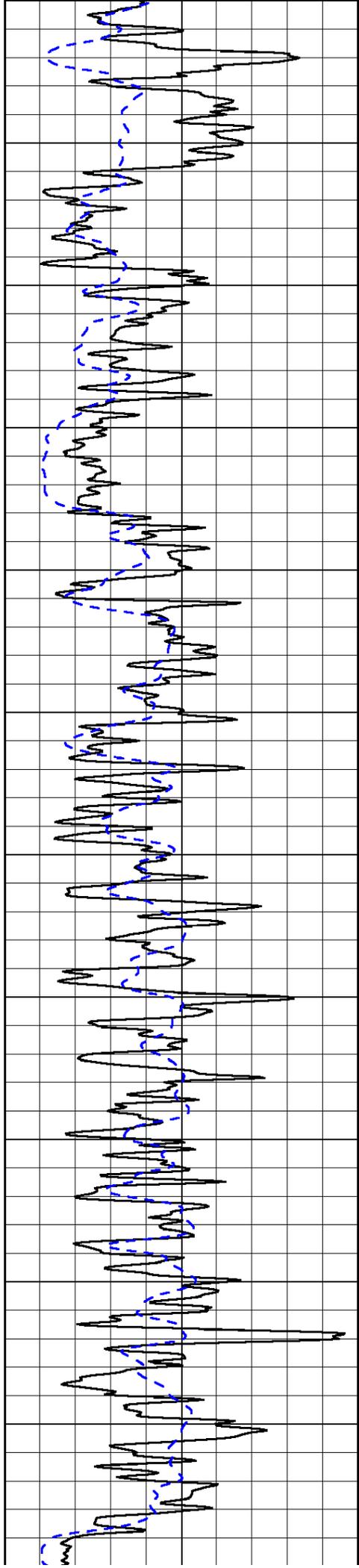
Haven, KS:
E edge: 4N on Haven Rd., 1E on Longview, 1 1/2N on Victory Rd., E into

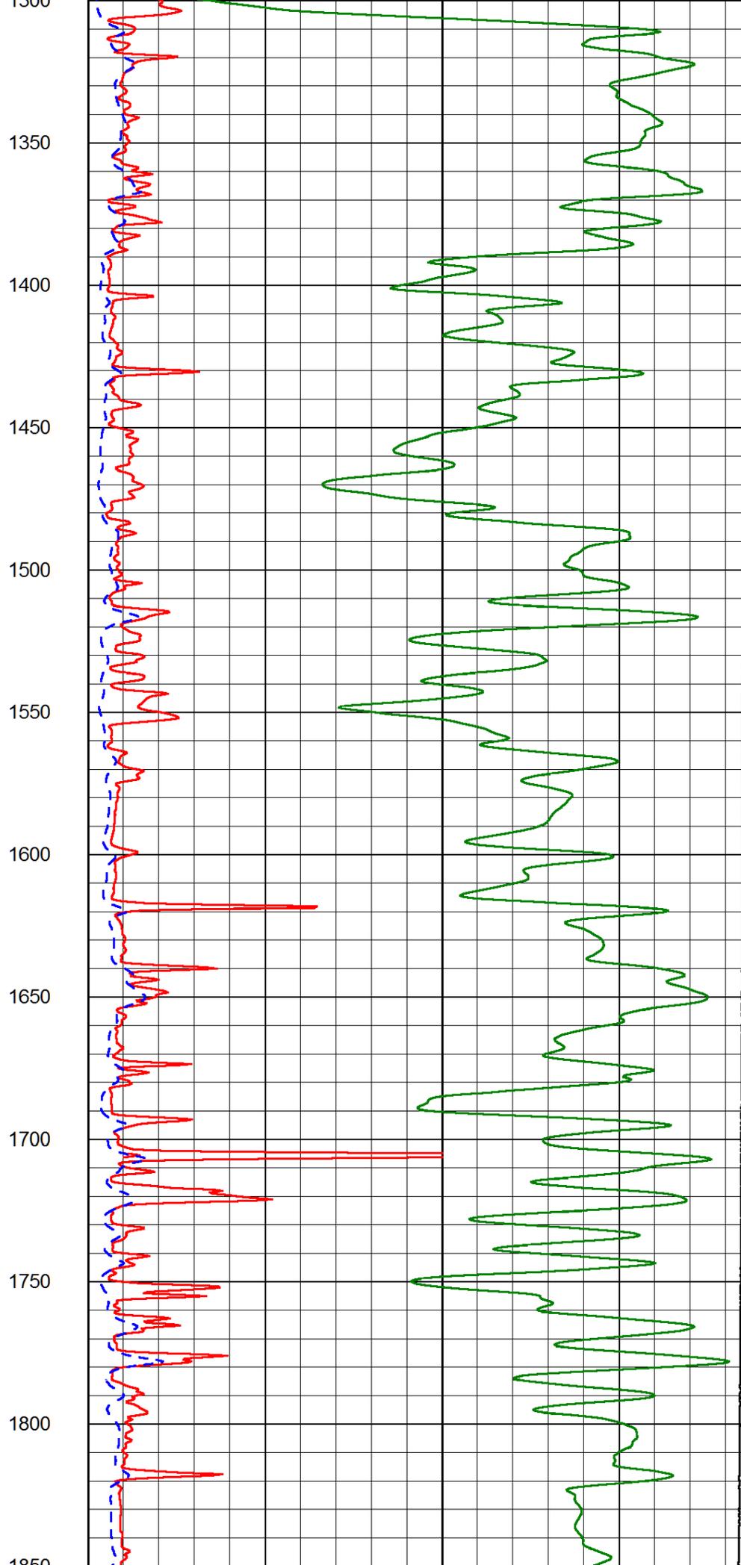
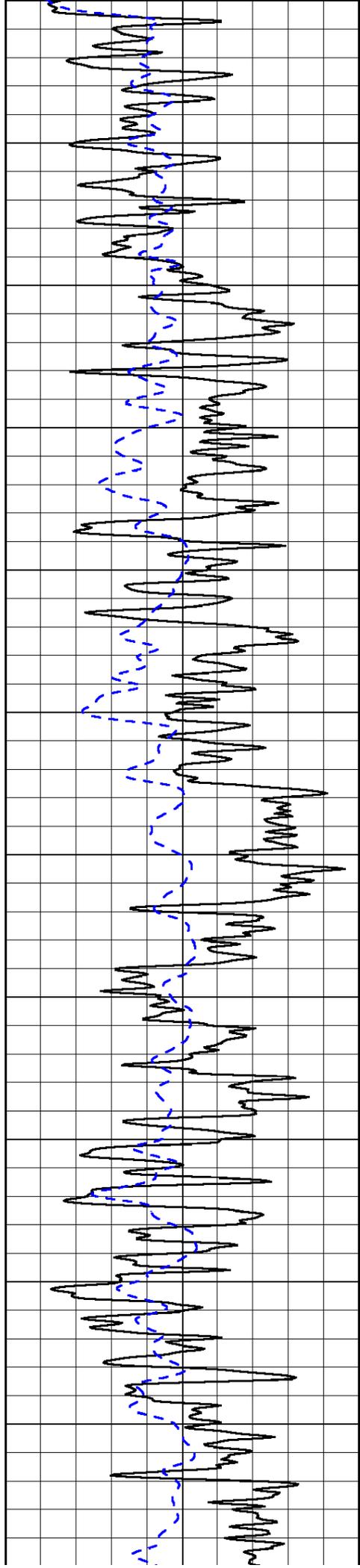
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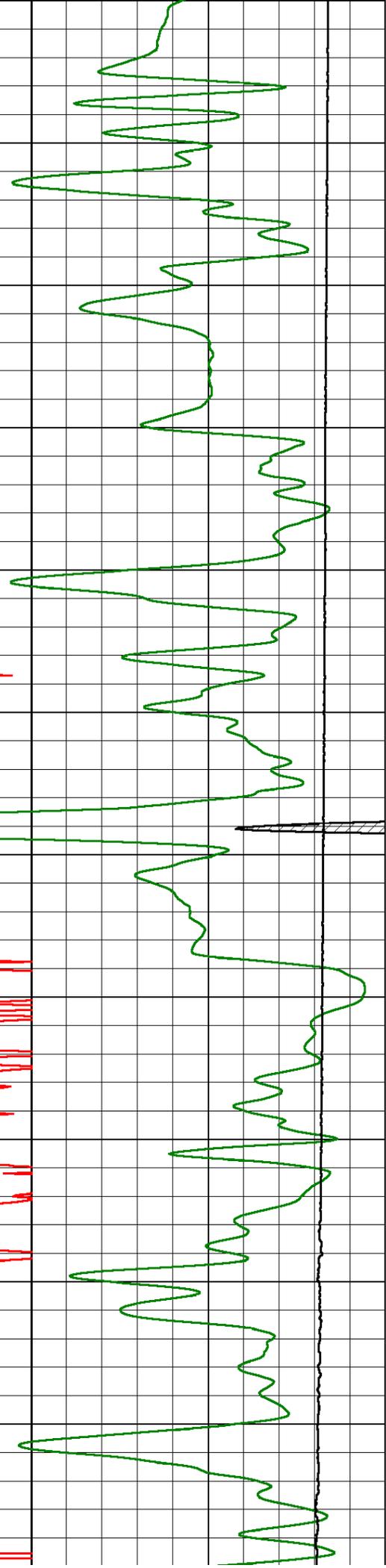
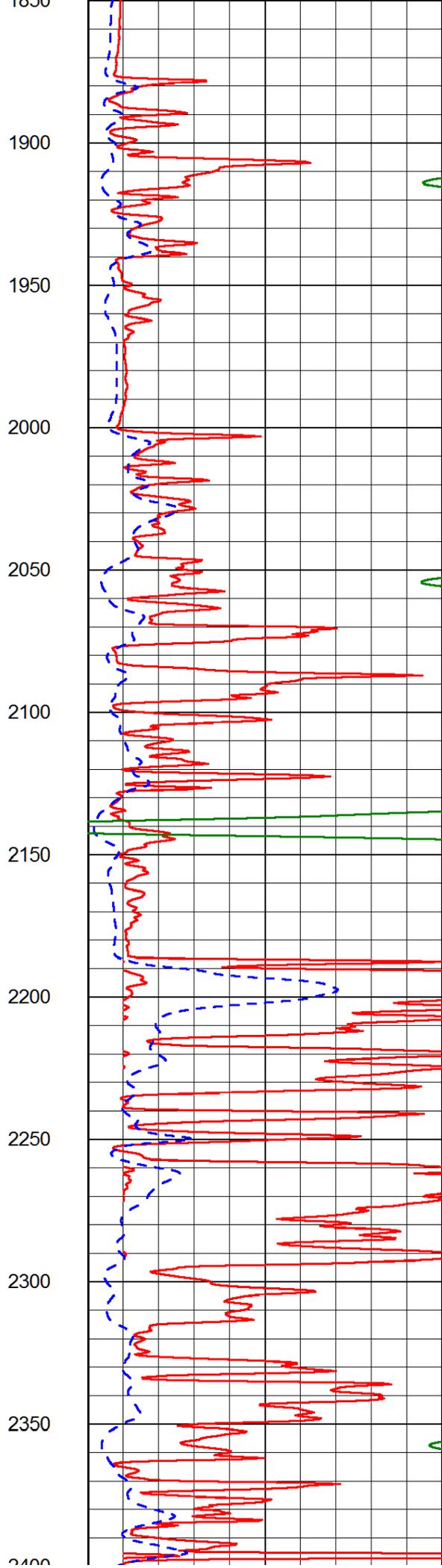
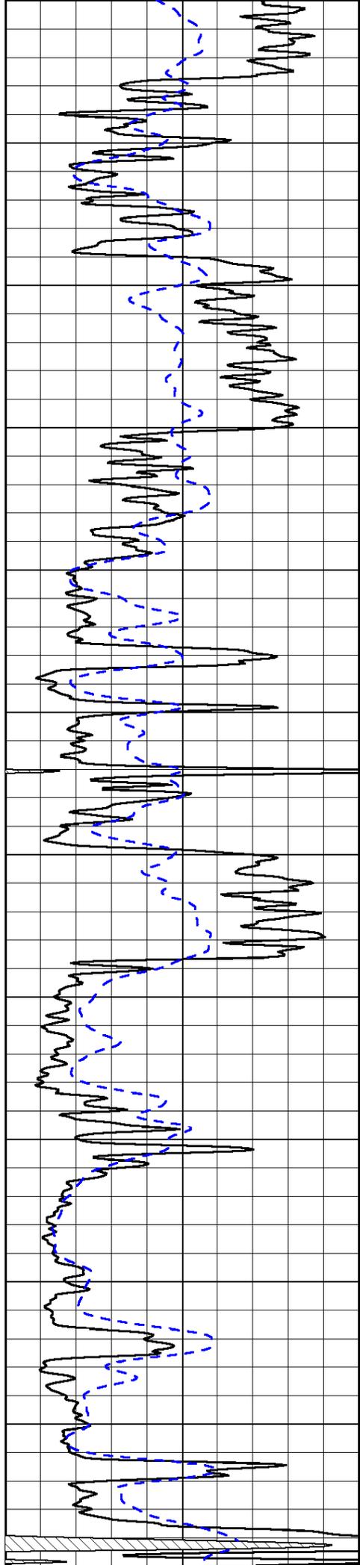
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

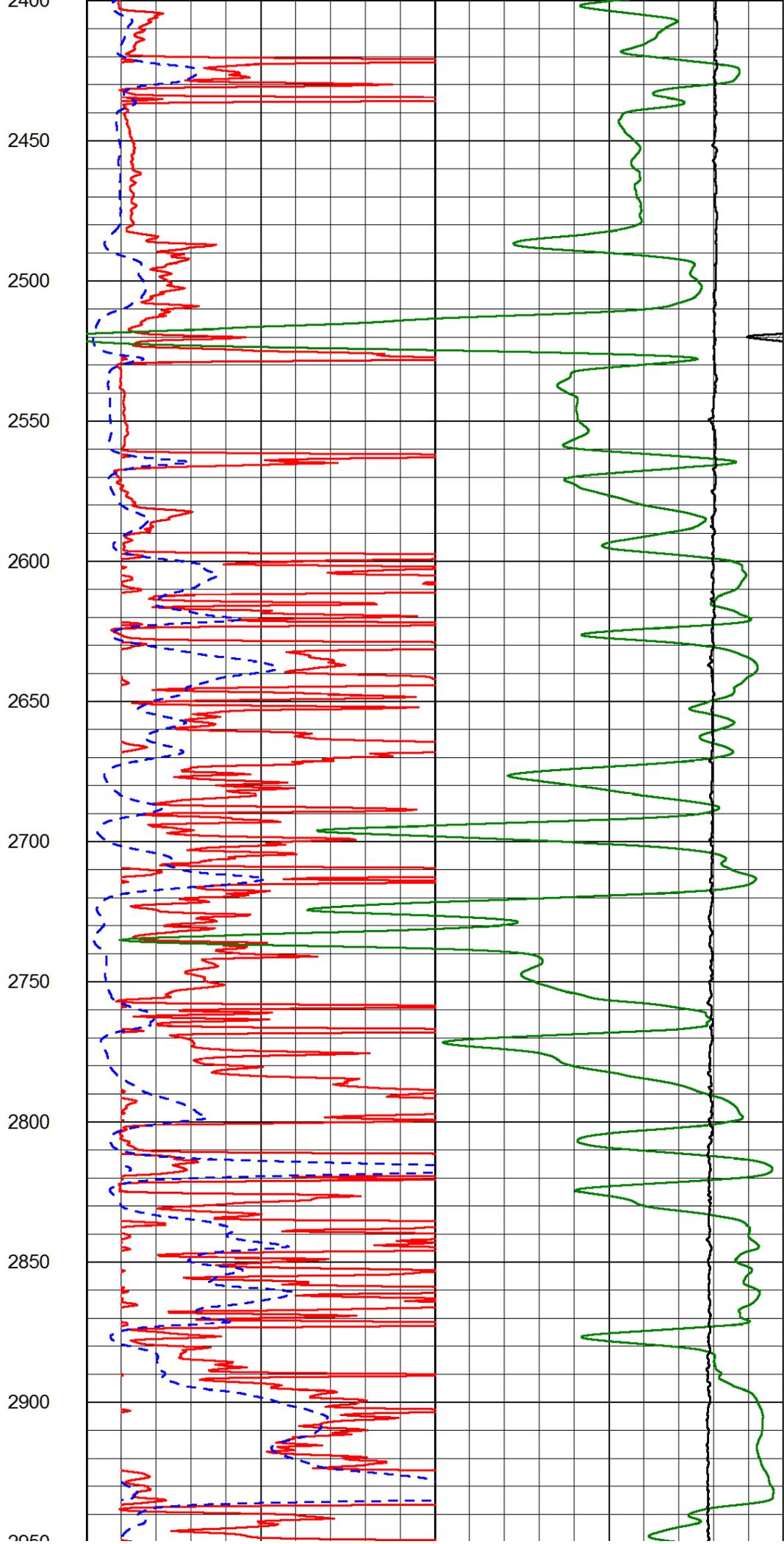
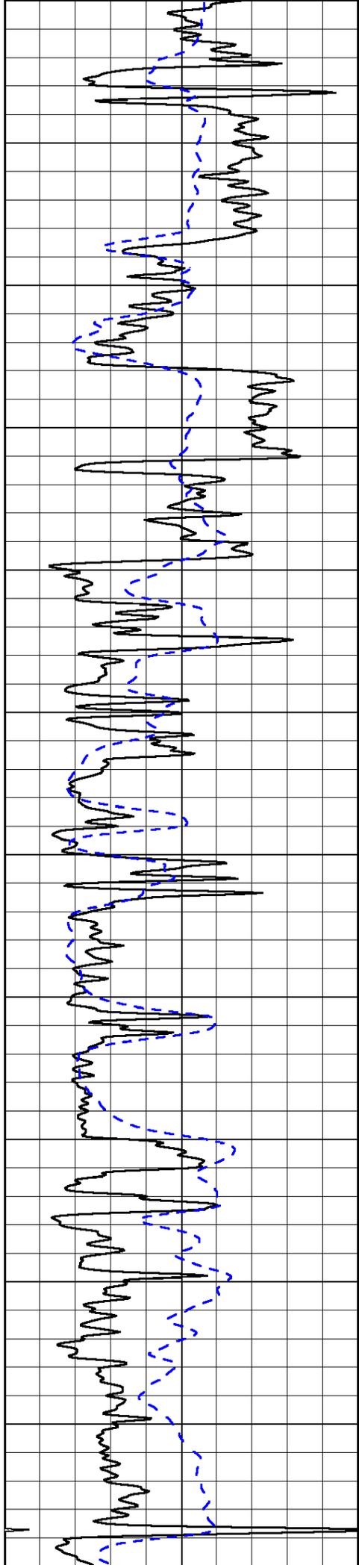
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

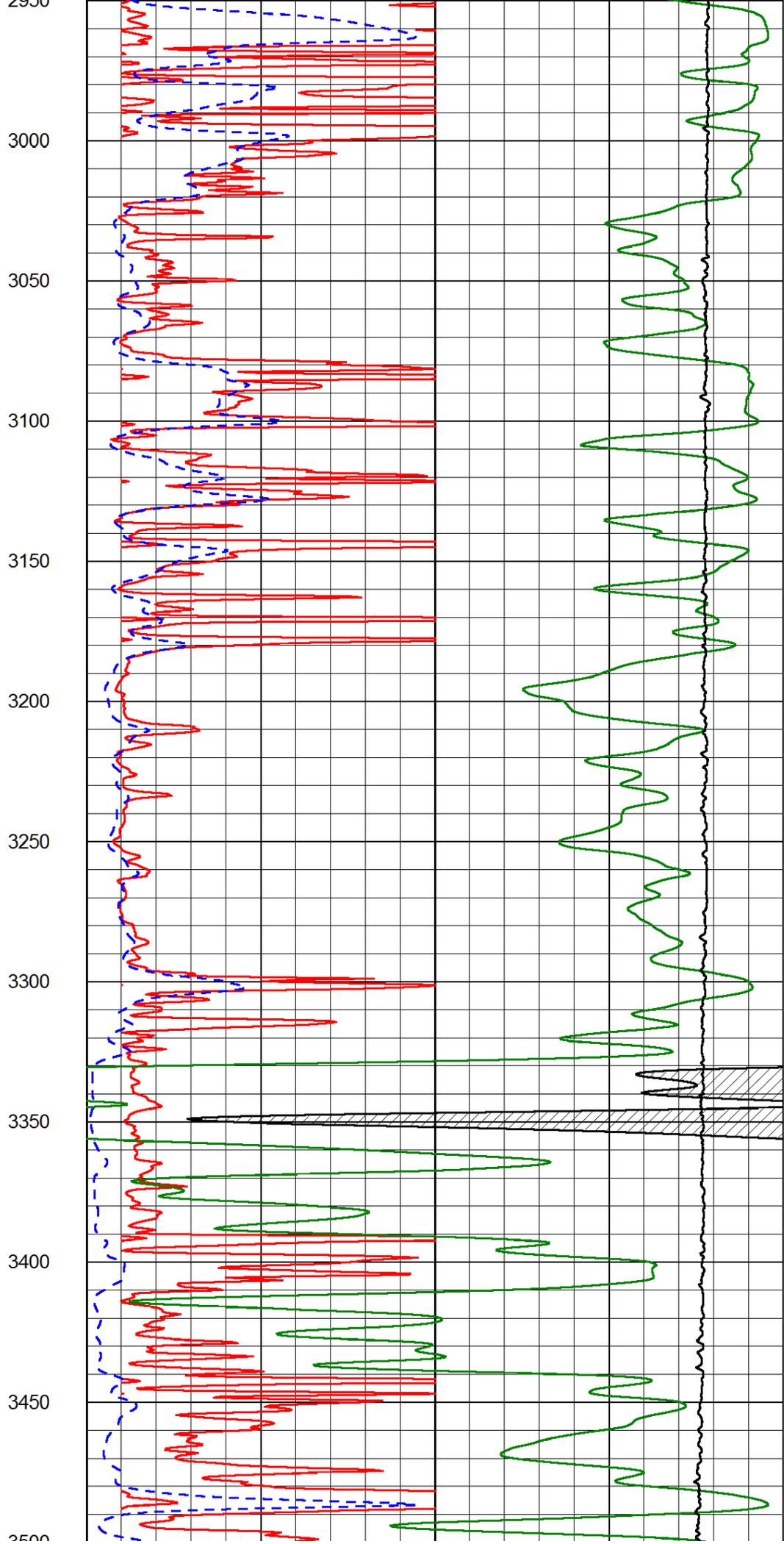
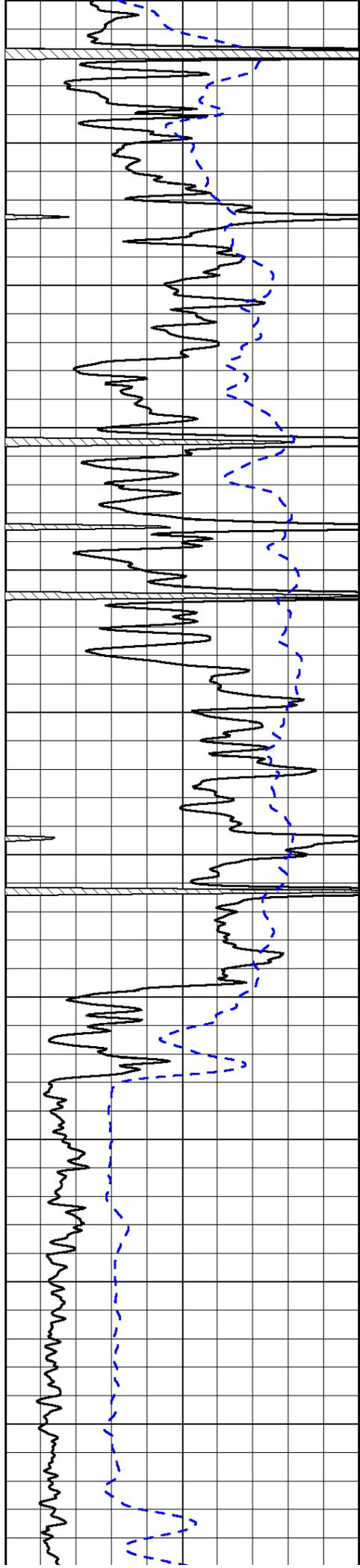


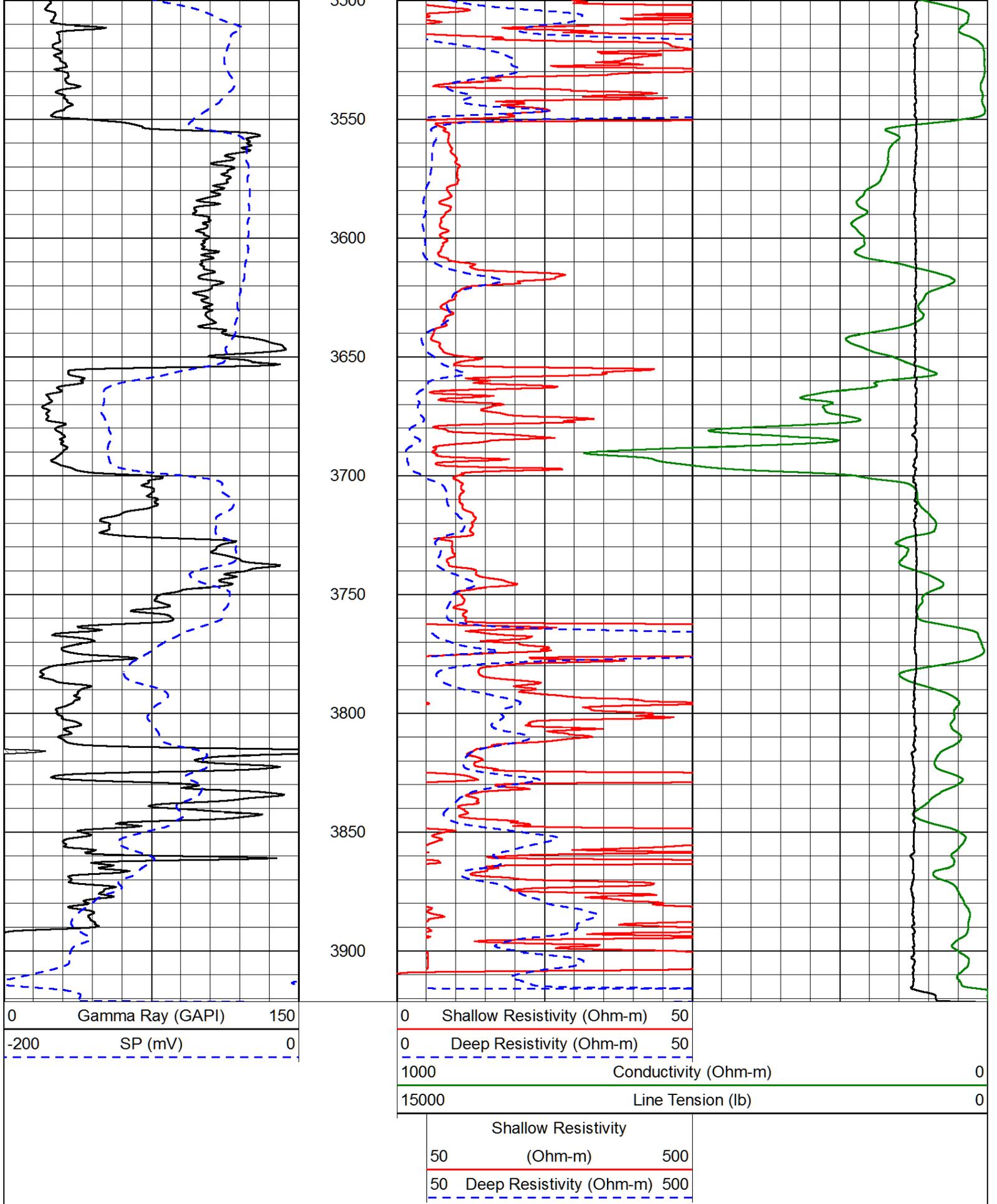










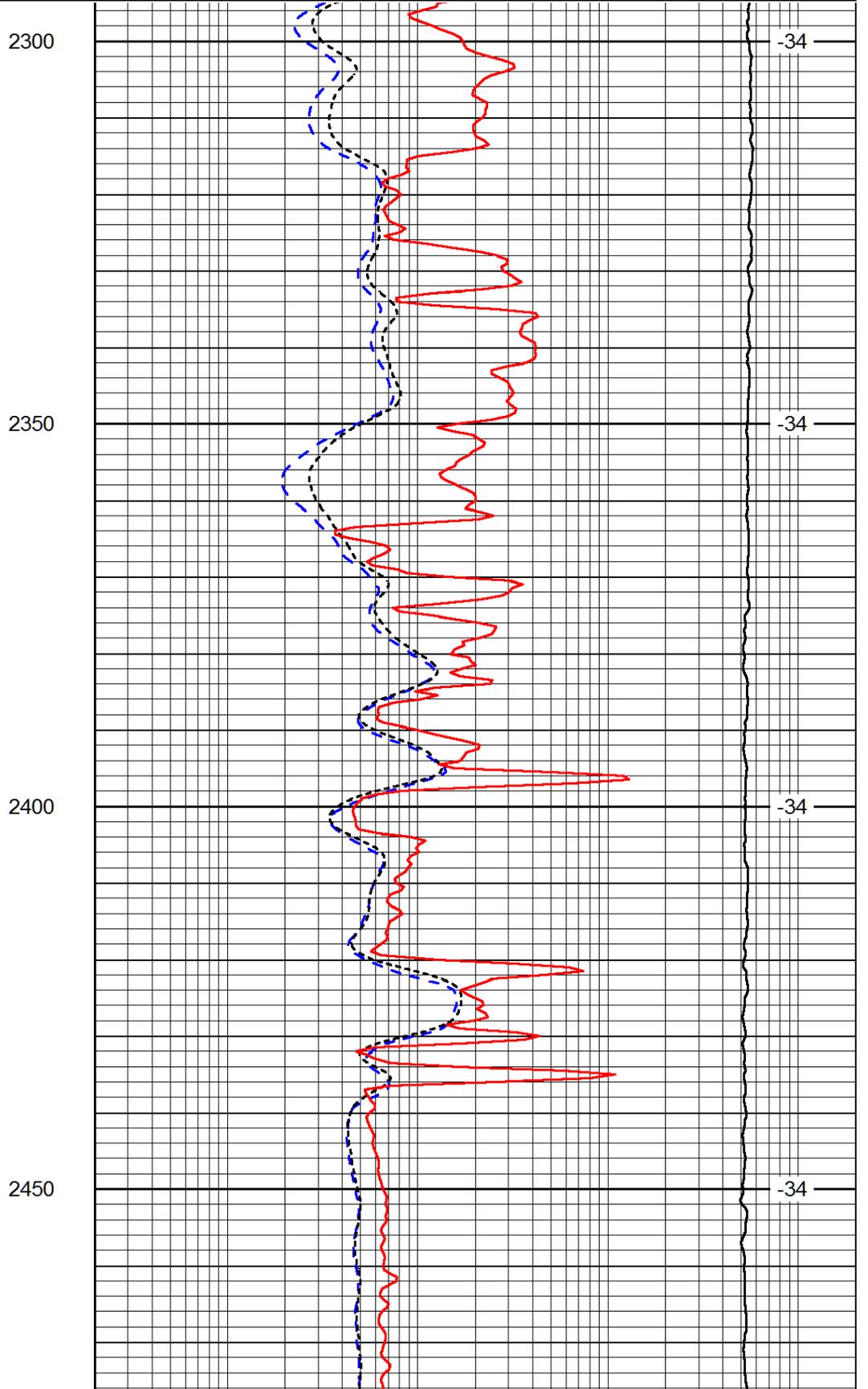
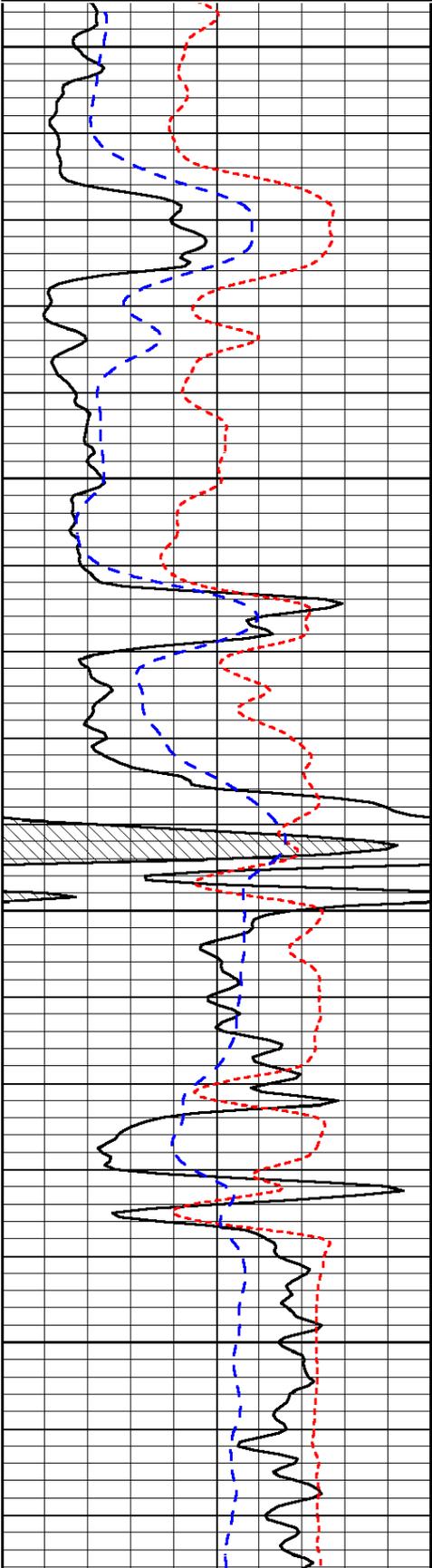


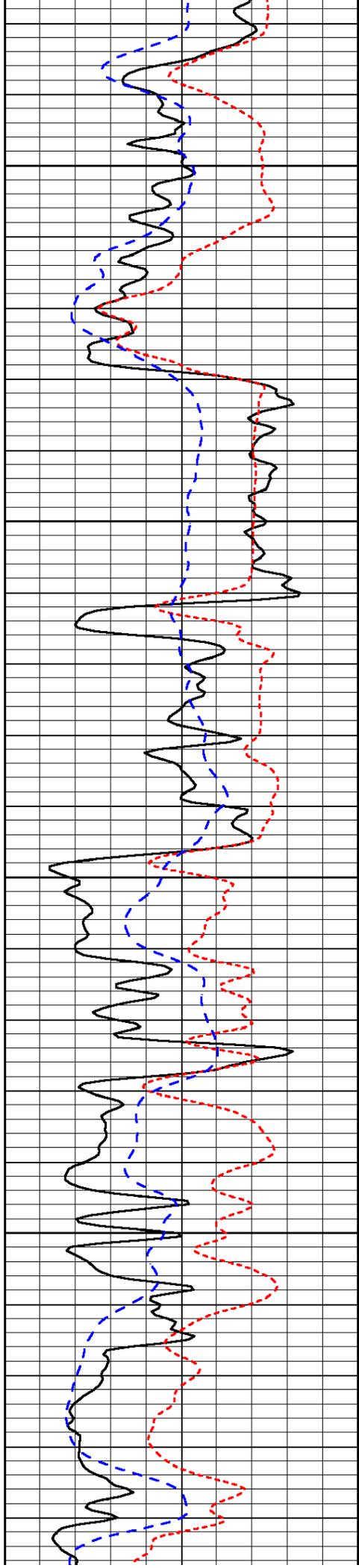
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0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

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)



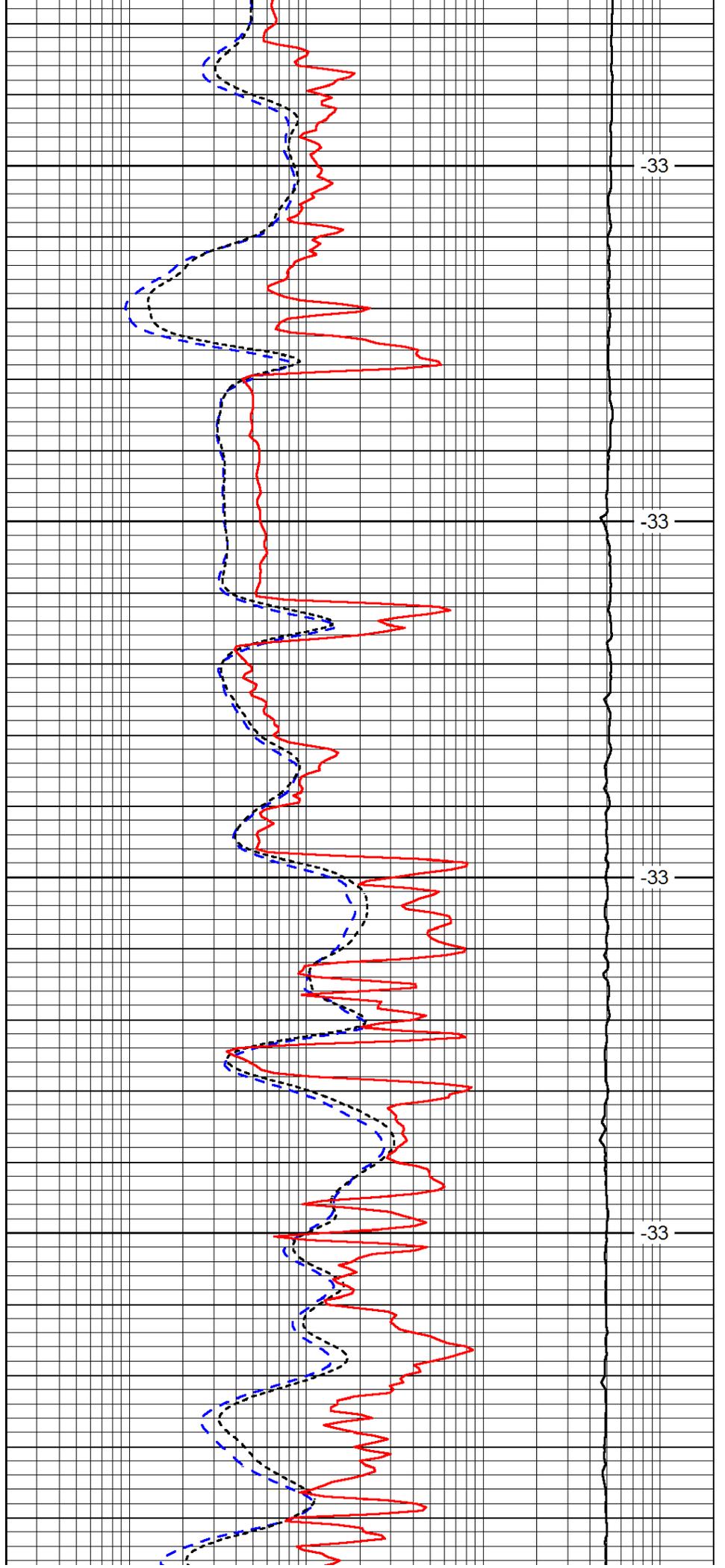


2500

2550

2600

2650

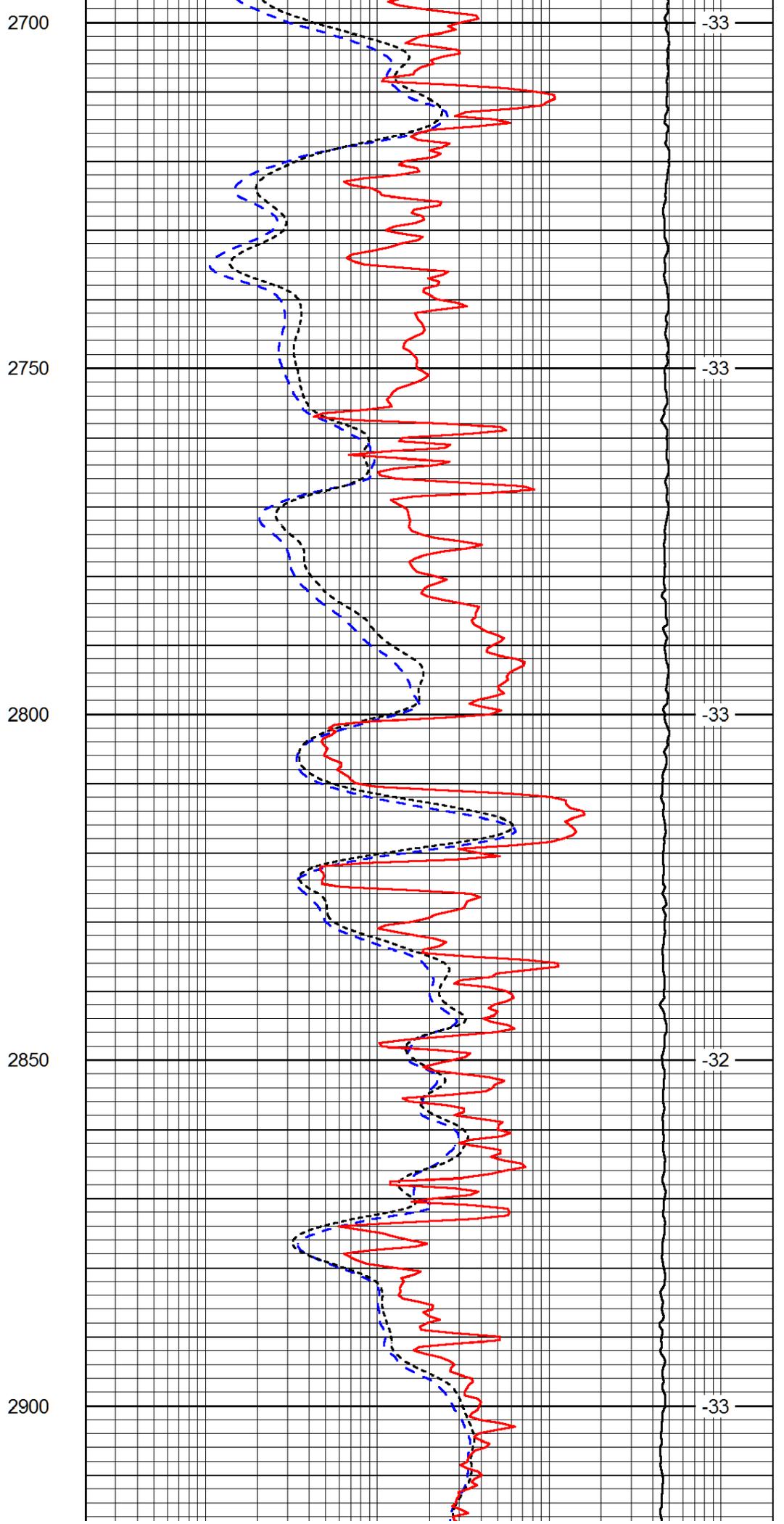
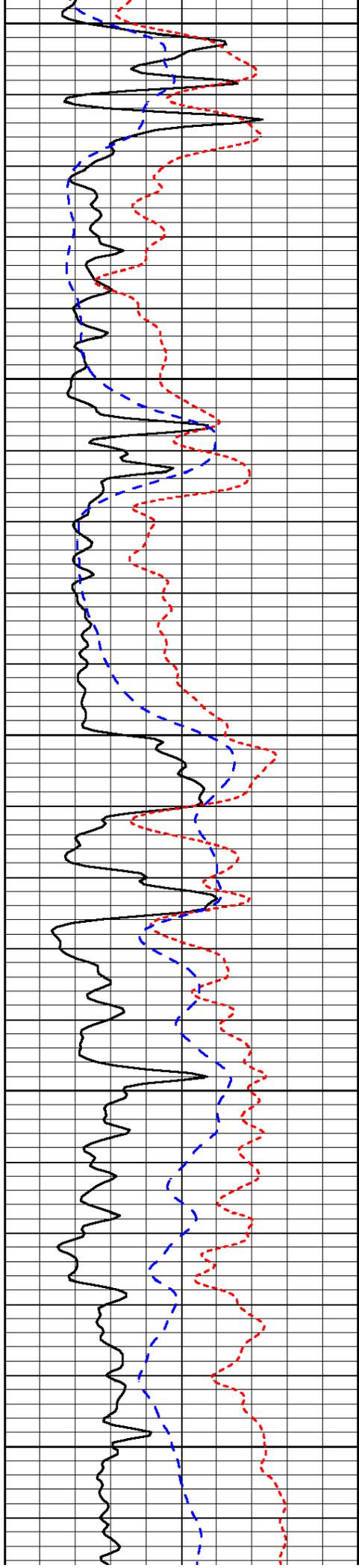


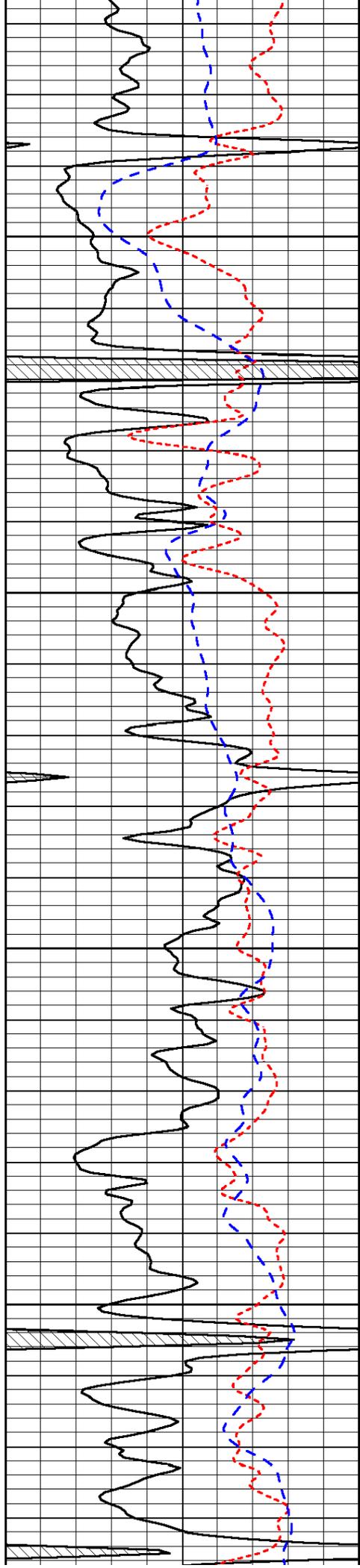
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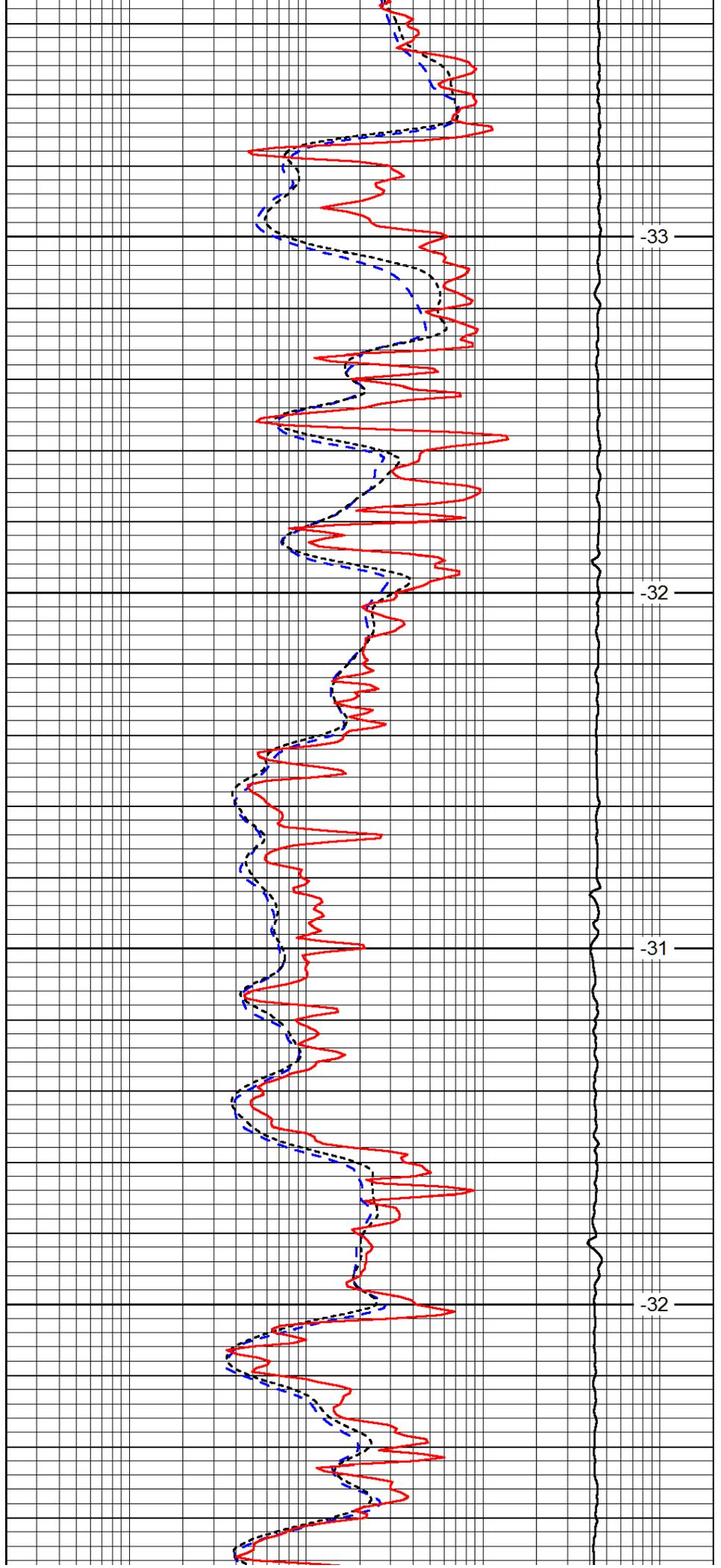


2950

3000

3050

3100

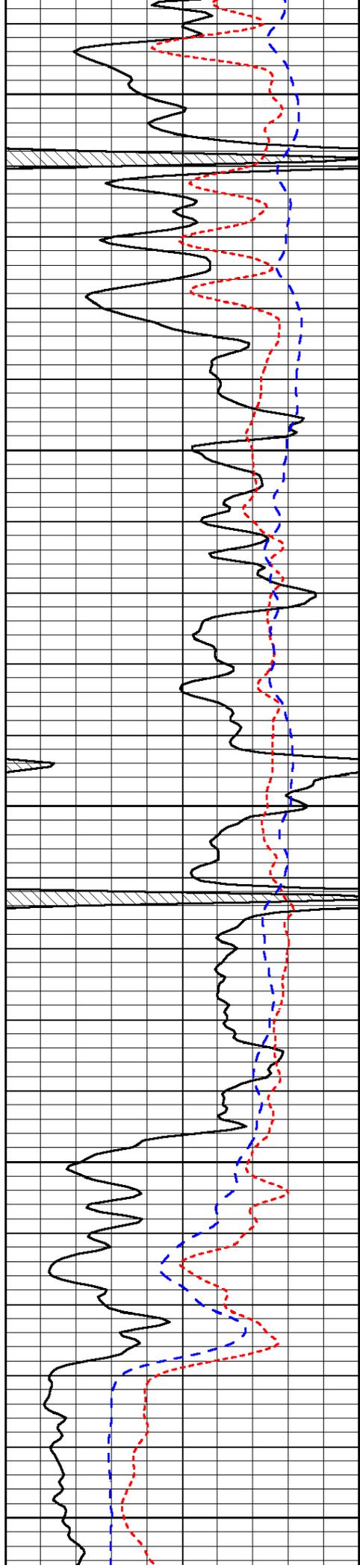


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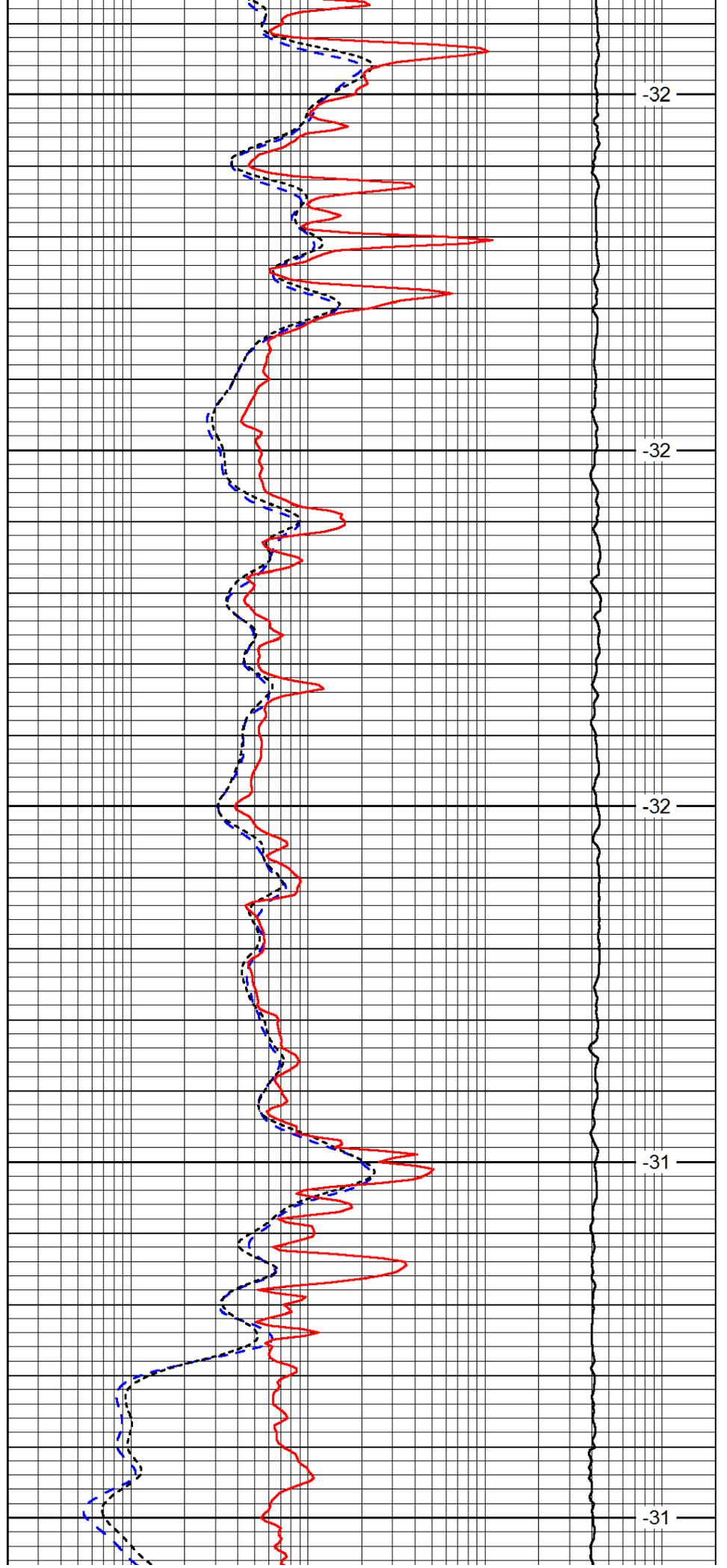
3150

3200

3250

3300

3350



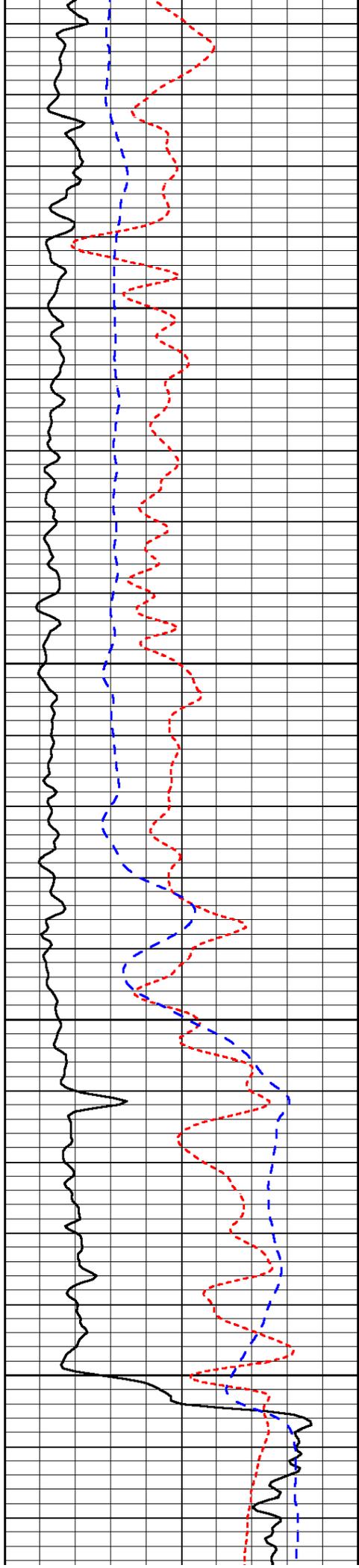
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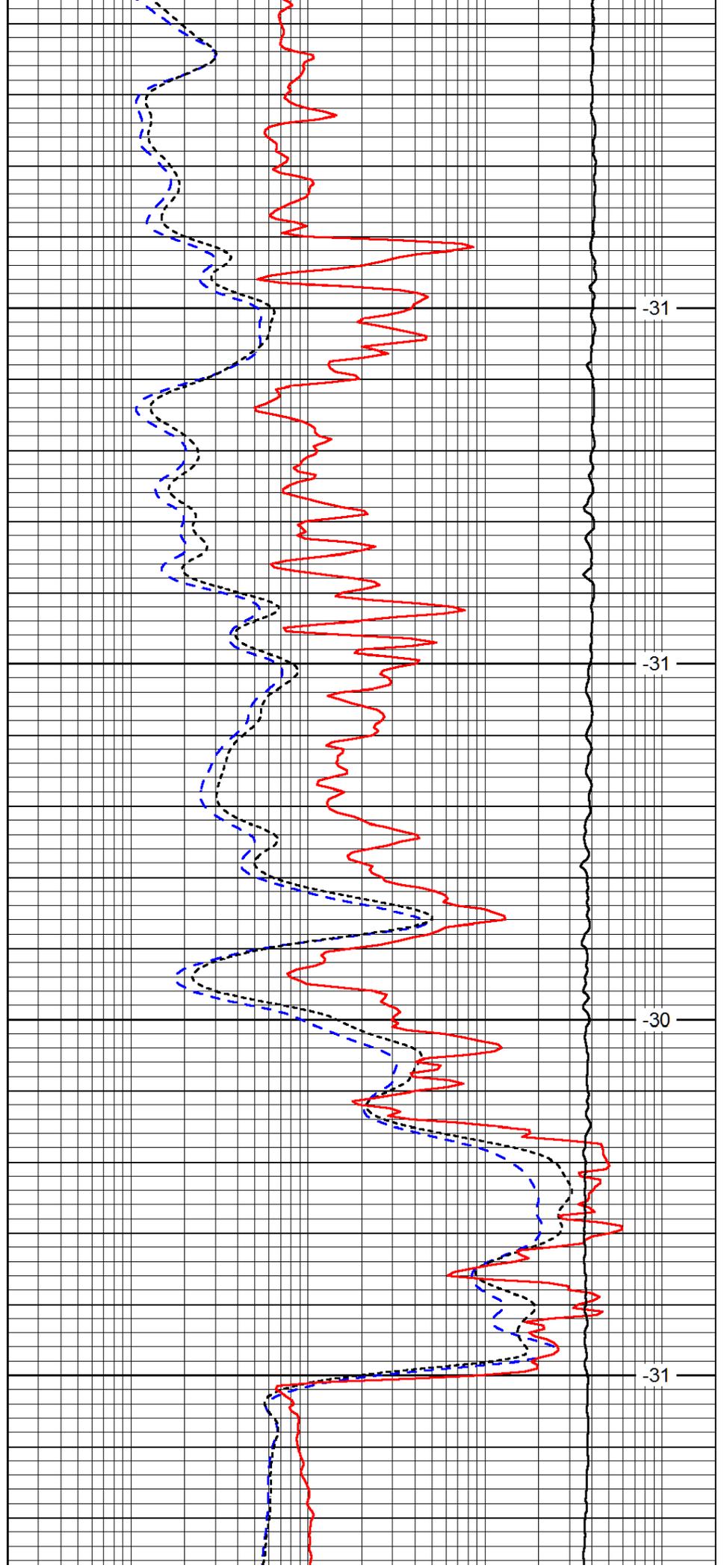


3400

3450

3500

3550

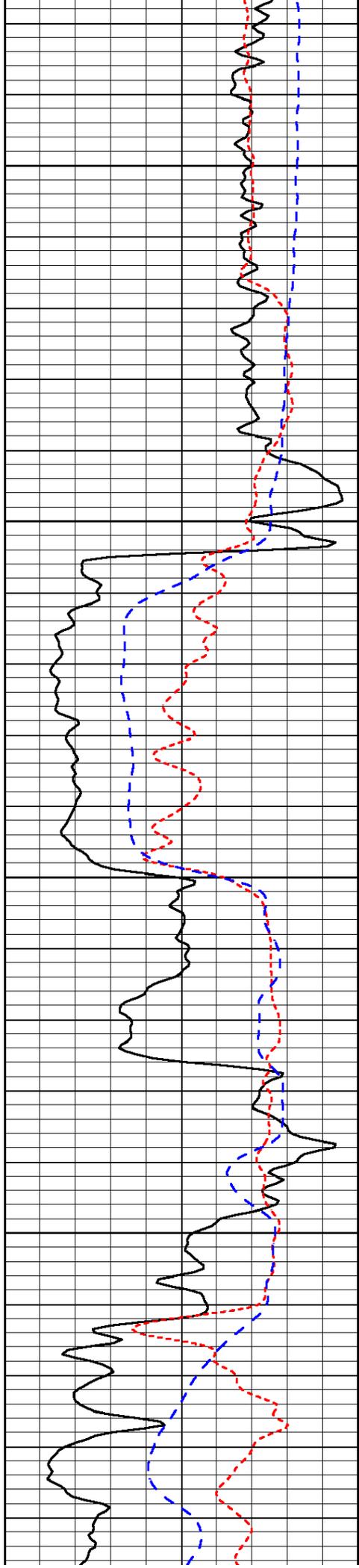


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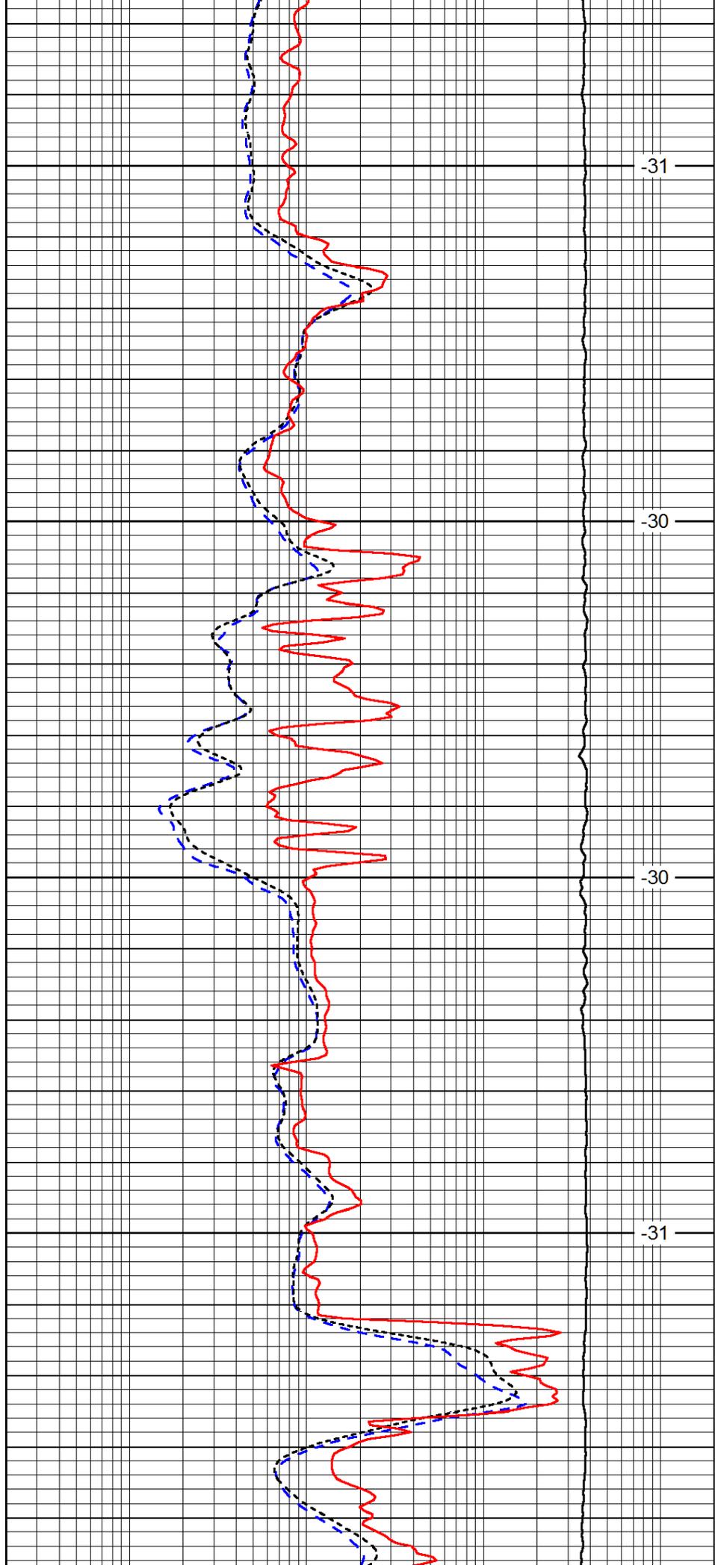


3600

3650

3700

3750

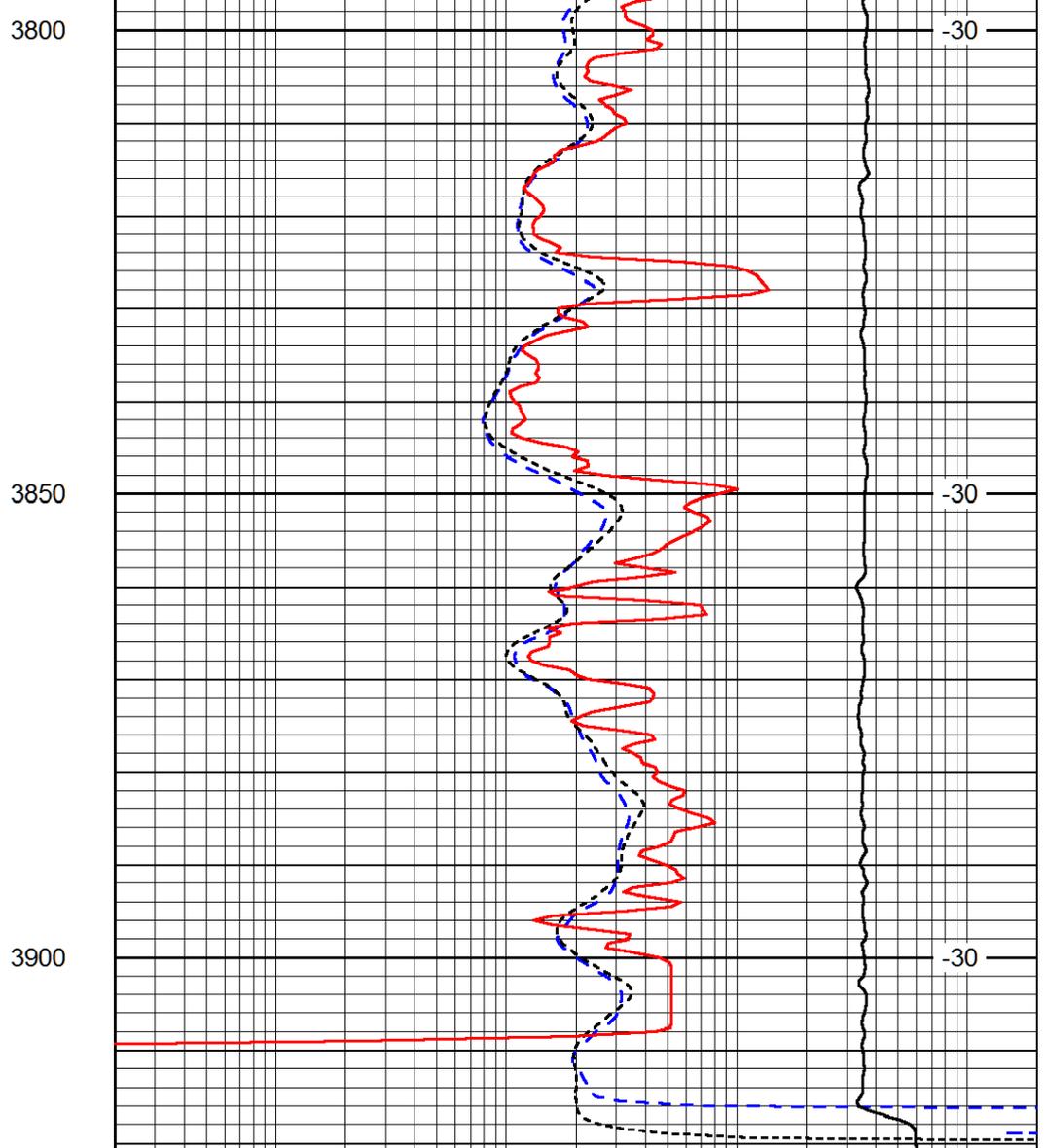
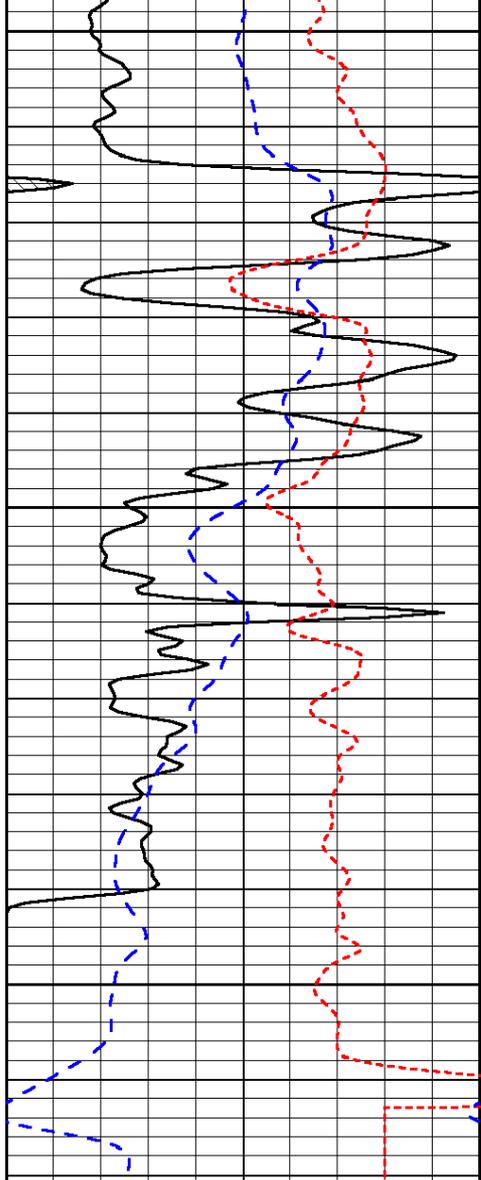


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(ft/min)