



Pioneer Energy Services

# Dual Induction Log

API No.	15-083-21889-00-00		
Company	Berecxco, LLC		
Well	Bradford #1-29		
Field	Lappin		
County	Hodgeman	State	Kansas
Location	400' FSL & 660' FEL		
Sec: 29	Twp: 23S	Rge: 23W	Other Services CNL/CDL MEL

Permanent Datum	Ground Level	Elevation 2422	K.B. 2435
Log Measured From	Kelly Bushing	13 Ft. Above Perm. Datum	D.F. 2422
Drilling Measured From	Kelly Bushing		G.L. 2422
Date	7/7/2013		
Run Number	One		
Depth Driller	4864		
Depth Logger	4865		
Bottom Logged Interval	4864		
Top Log Interval	250		
Casing Driller	8.625 @ 252		
Casing Logger	266		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6000		
Density / Viscosity	9.2	64	
pH / Fluid Loss	9.5	9.2	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.30	@ 84	
Rmf @ Meas. Temp	0.22	@ 84	
Rmc @ Meas. Temp	0.40	@ 84	
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.20	@ 127	
Operating Rig Time	4 Hours		
Max Rec. Temp. F	127		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	David Gould		

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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.

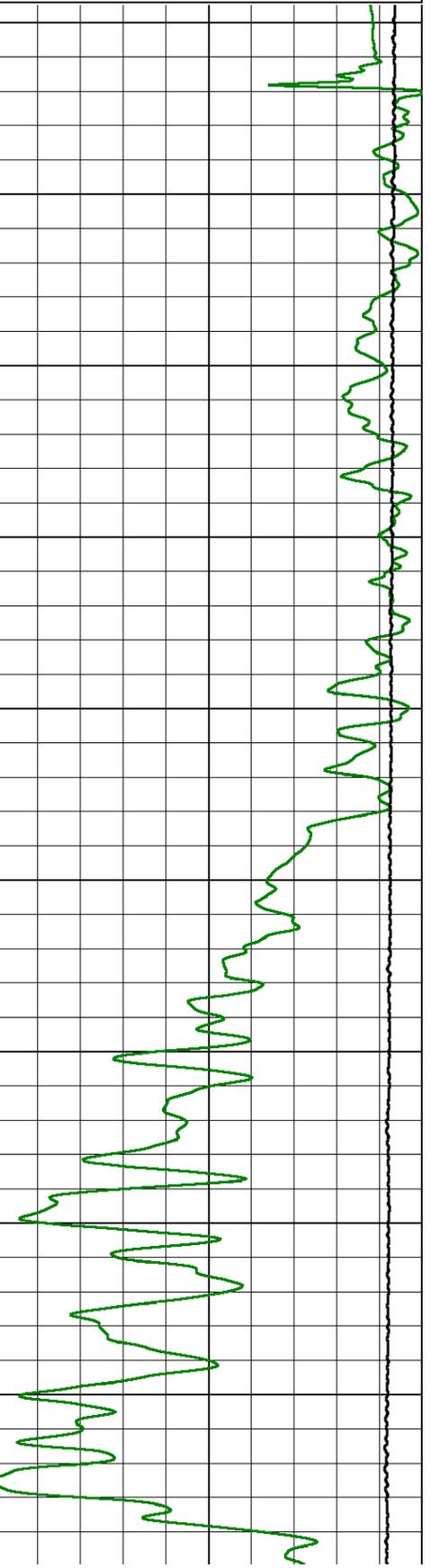
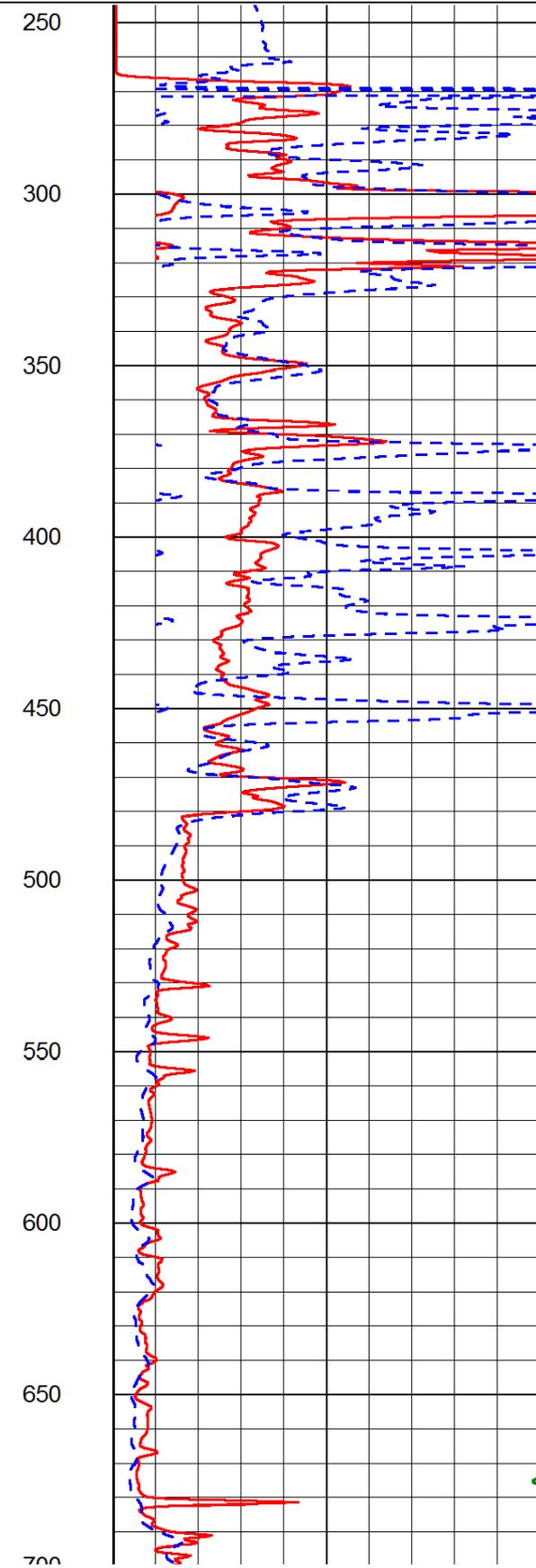
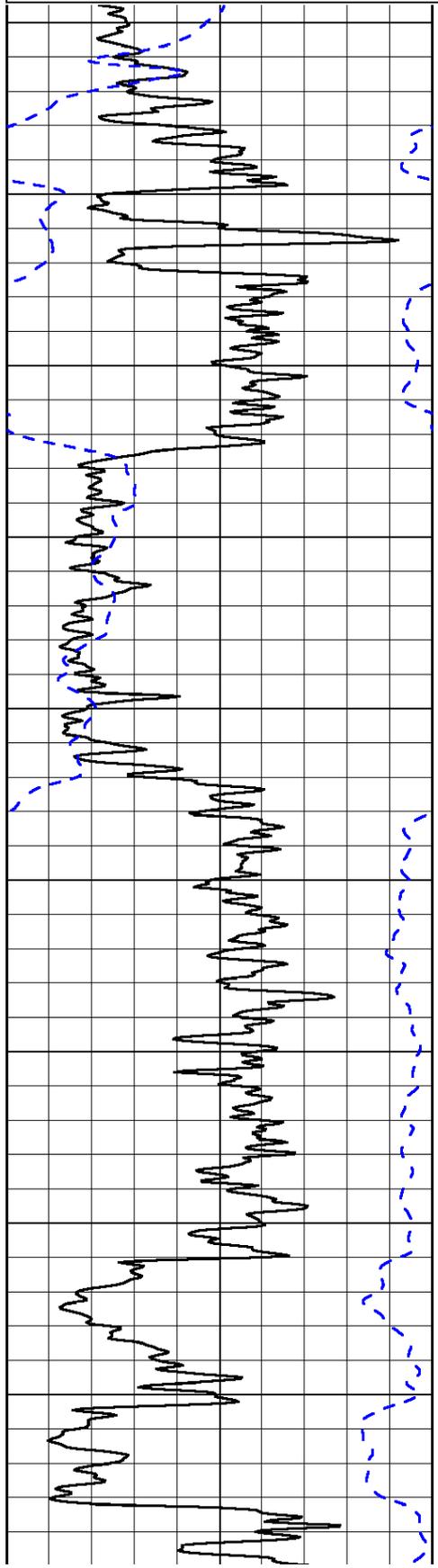
### Comments

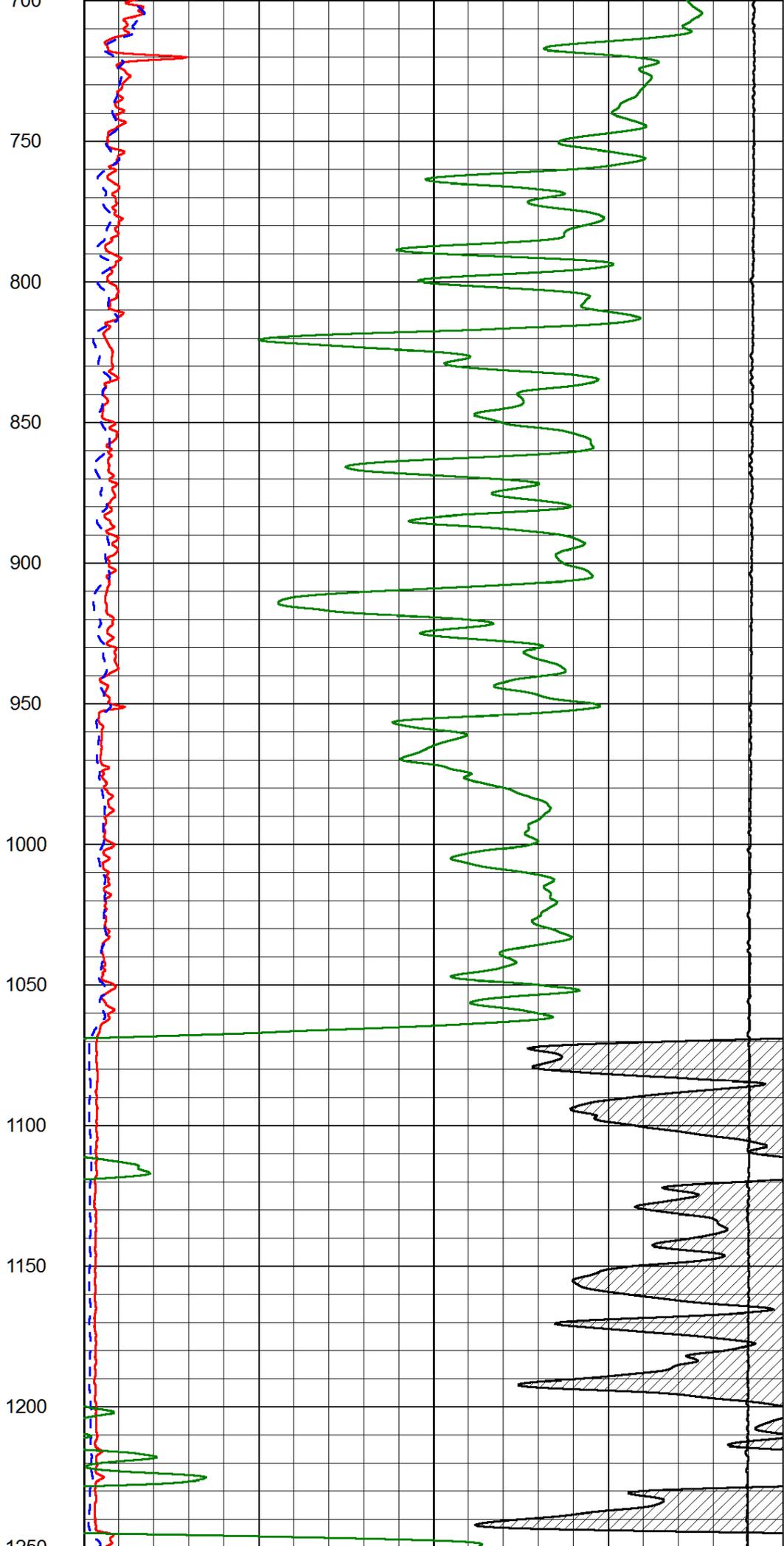
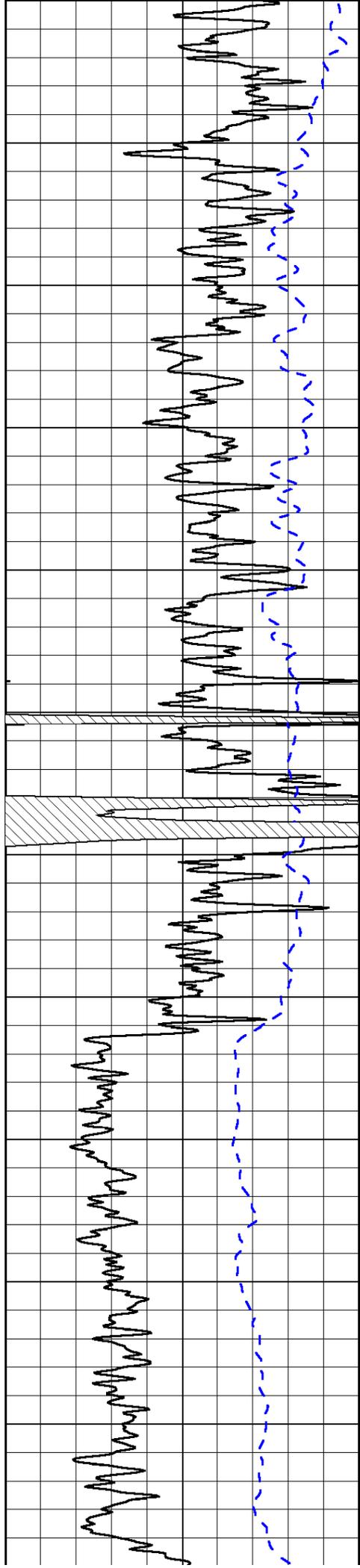
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 (785) 625-3858  
 Jetmore,  
 6 South to G Rd, 1 East, 1 North, 3/4 East,  
 North into

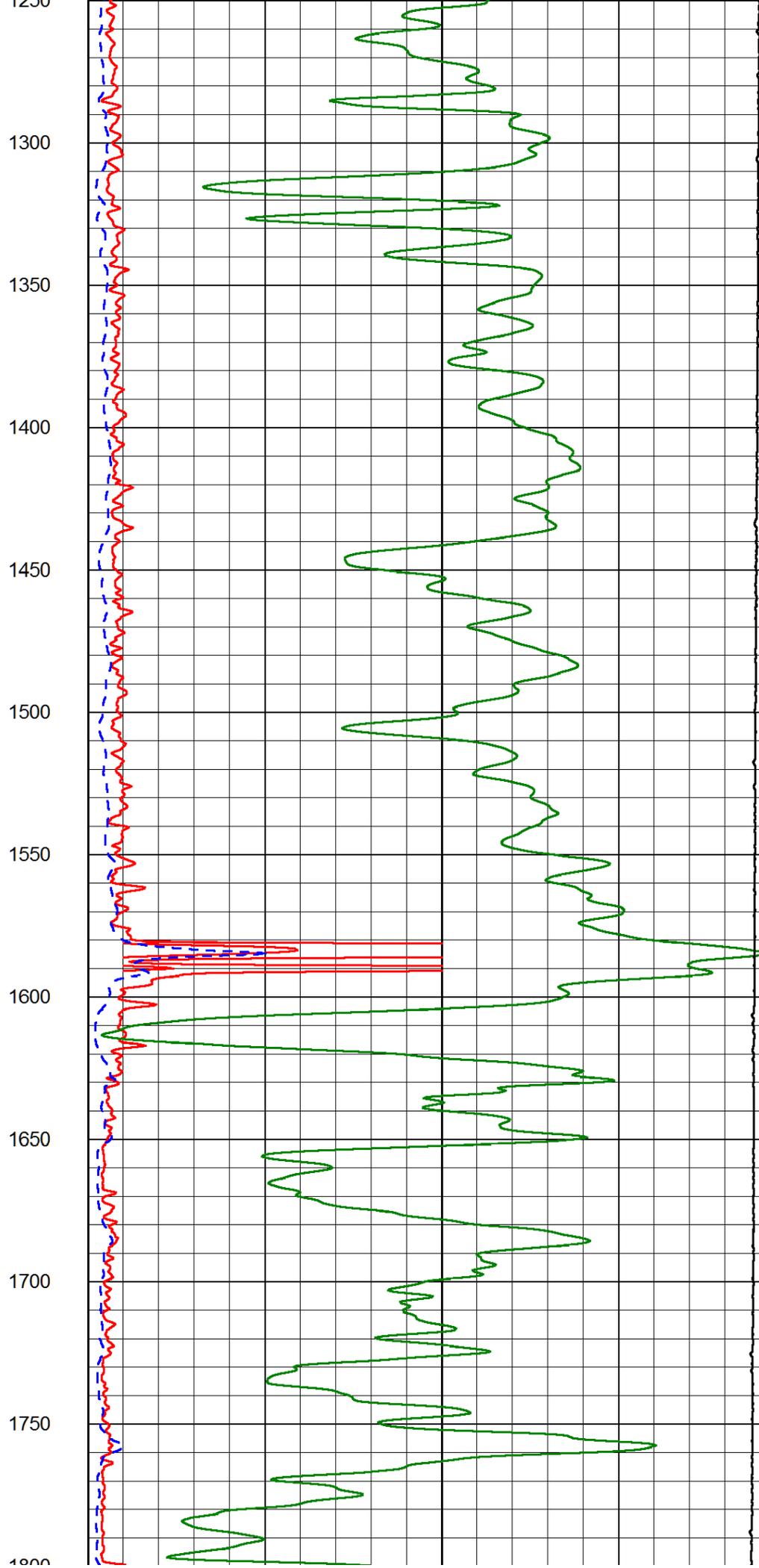
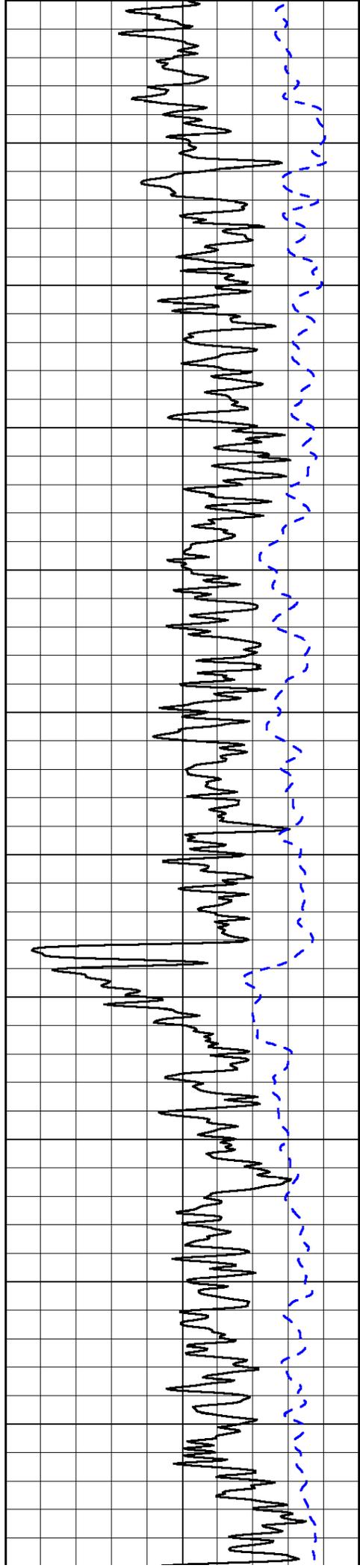
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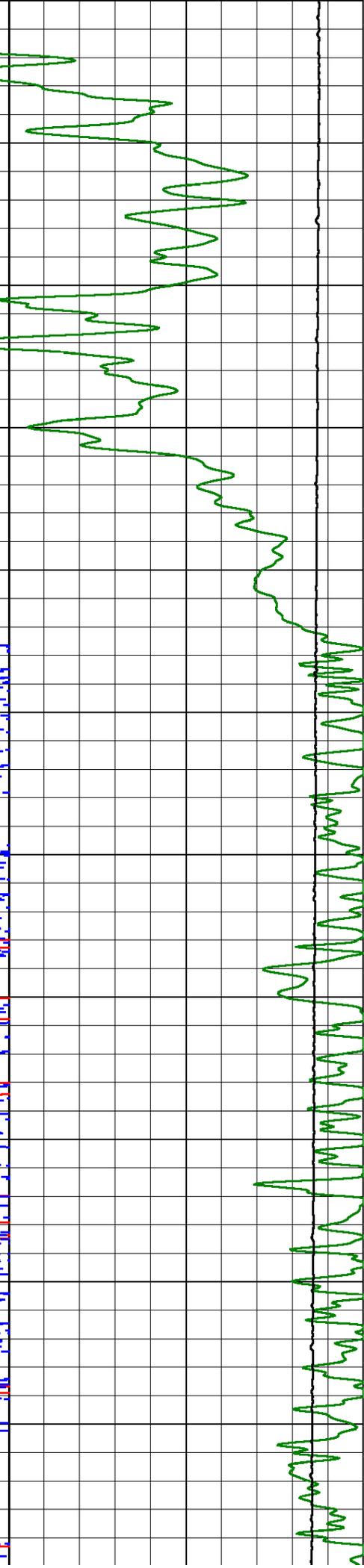
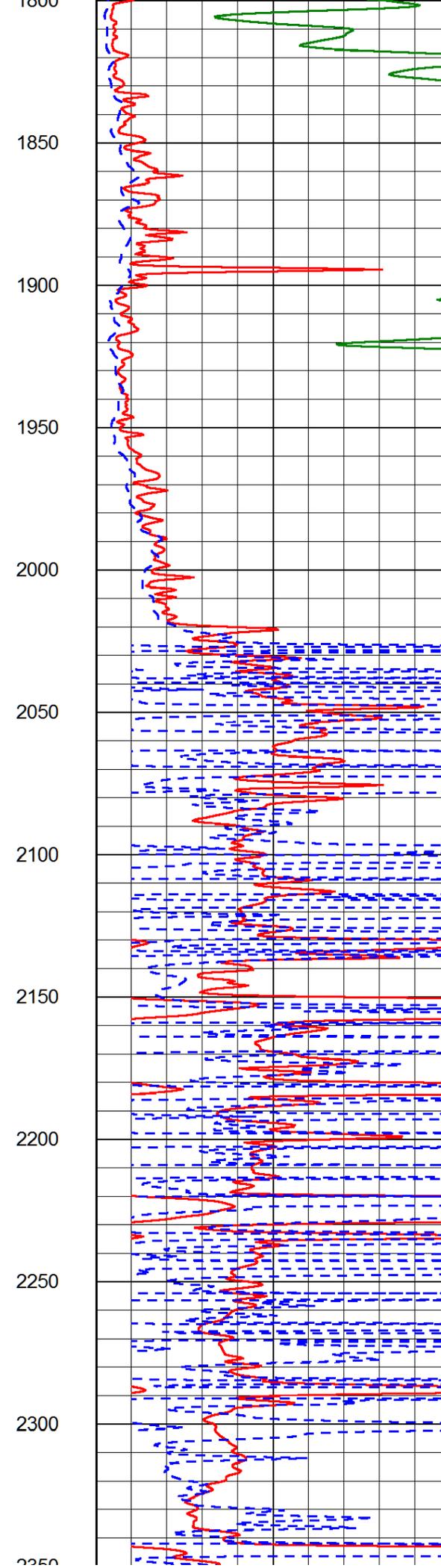
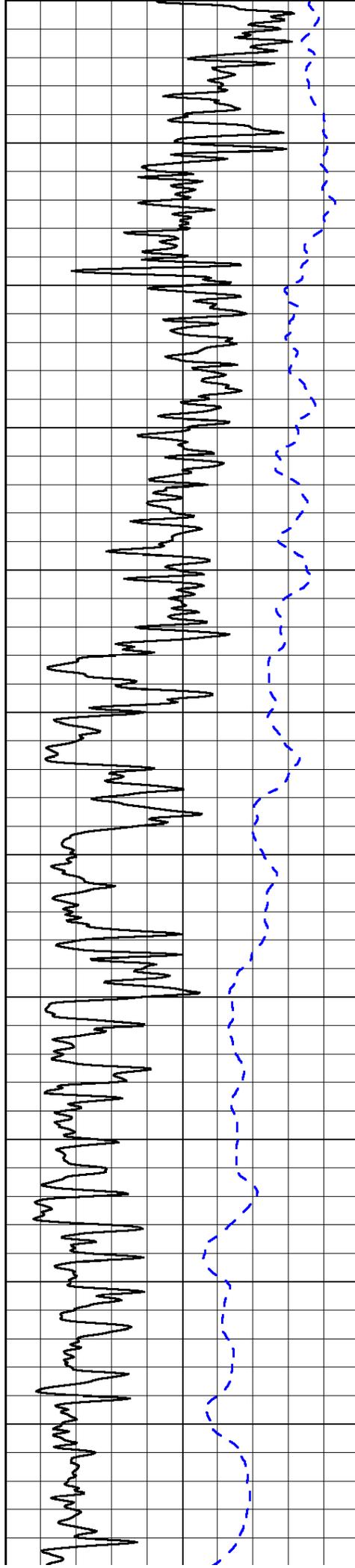
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-200	SP (mV)	0

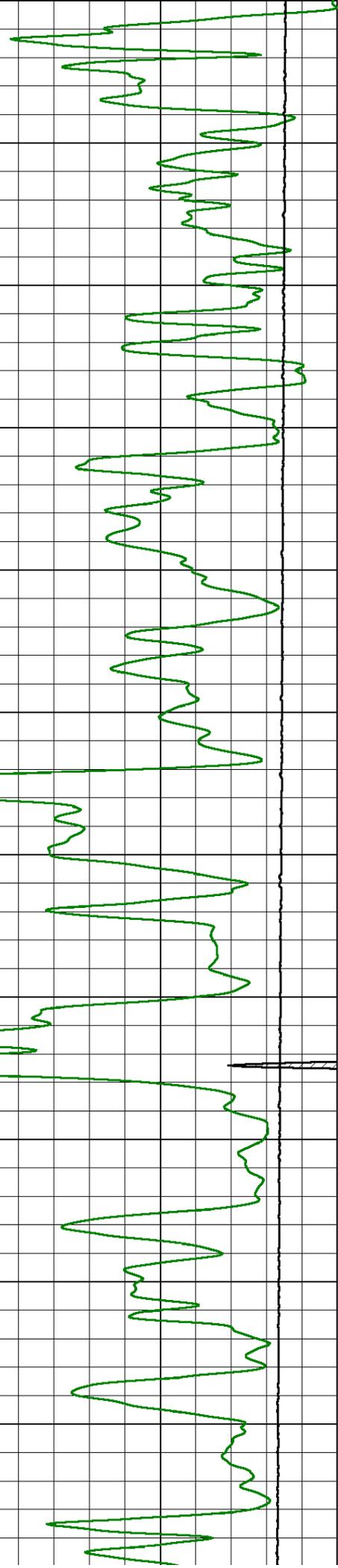
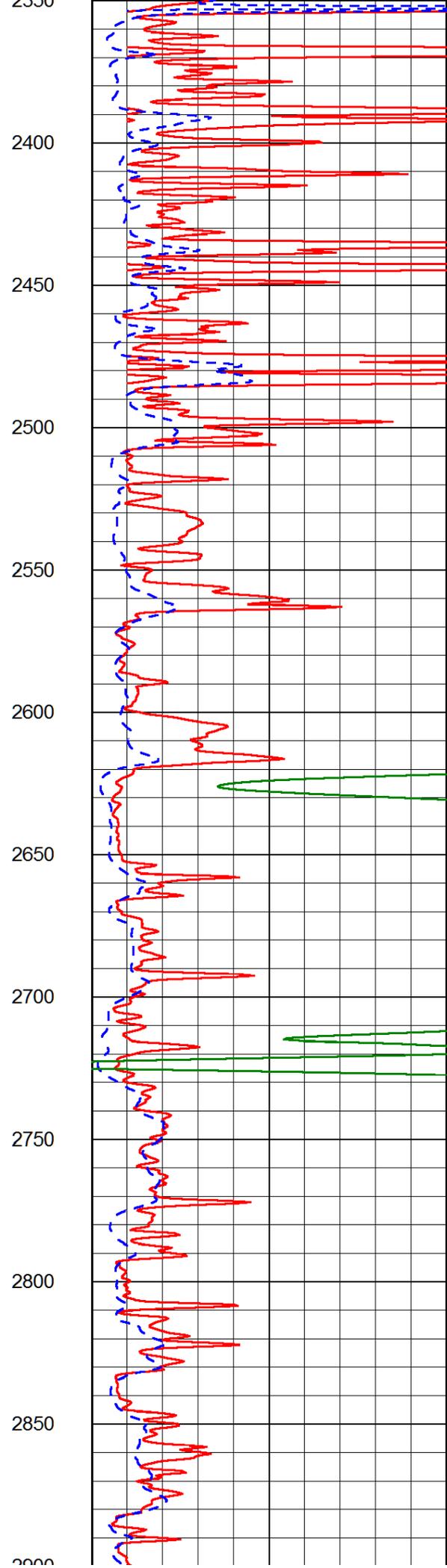
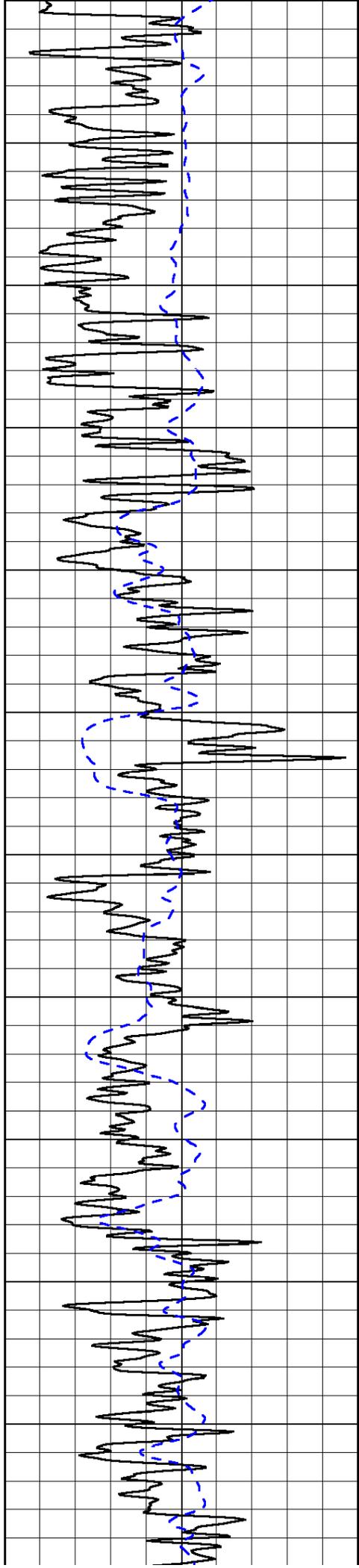
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0

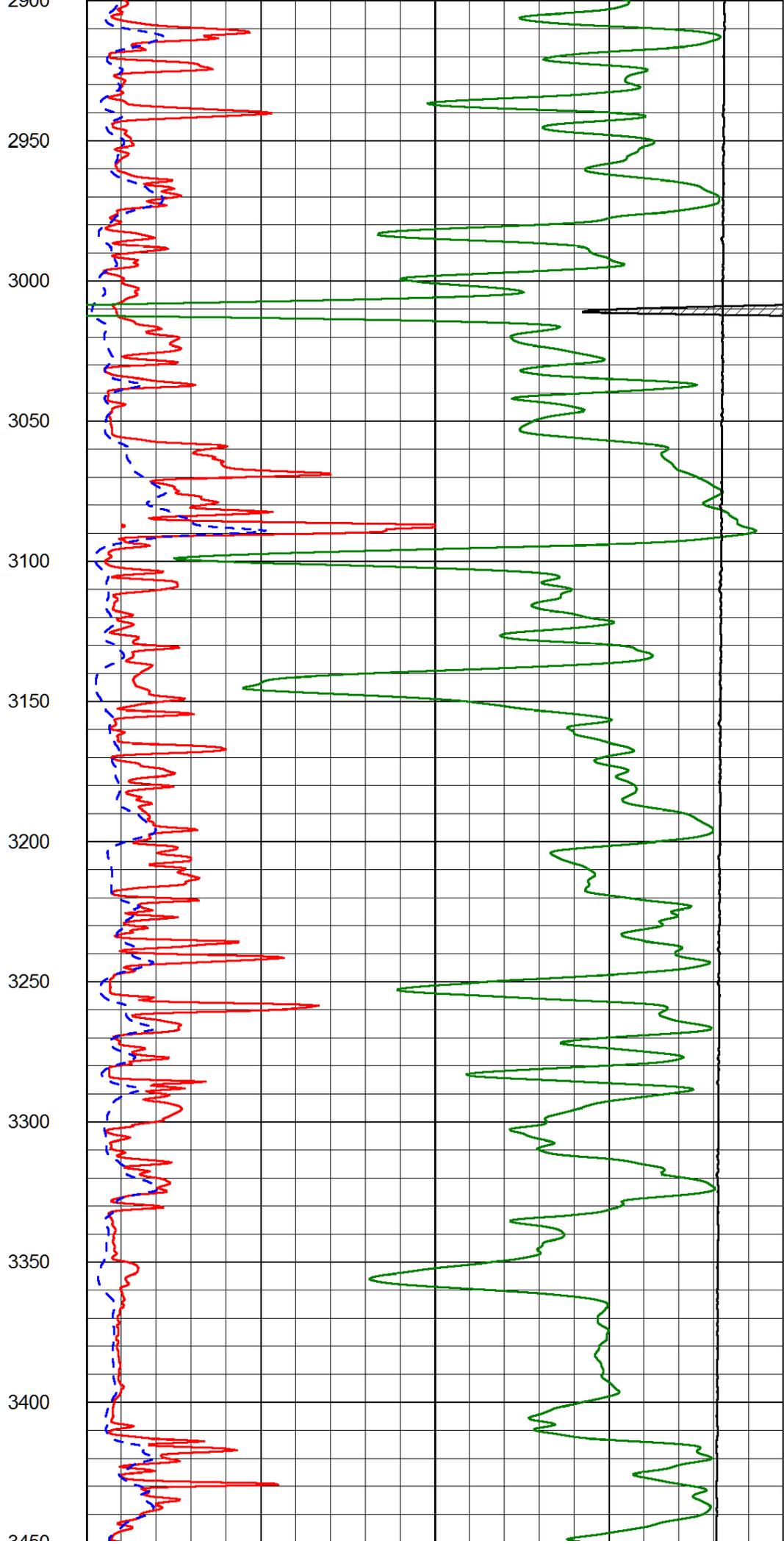
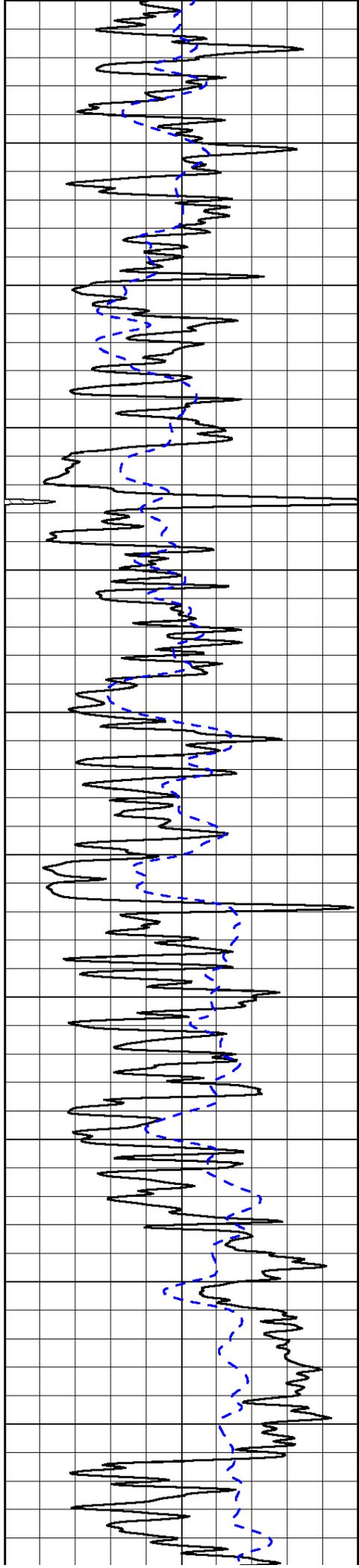


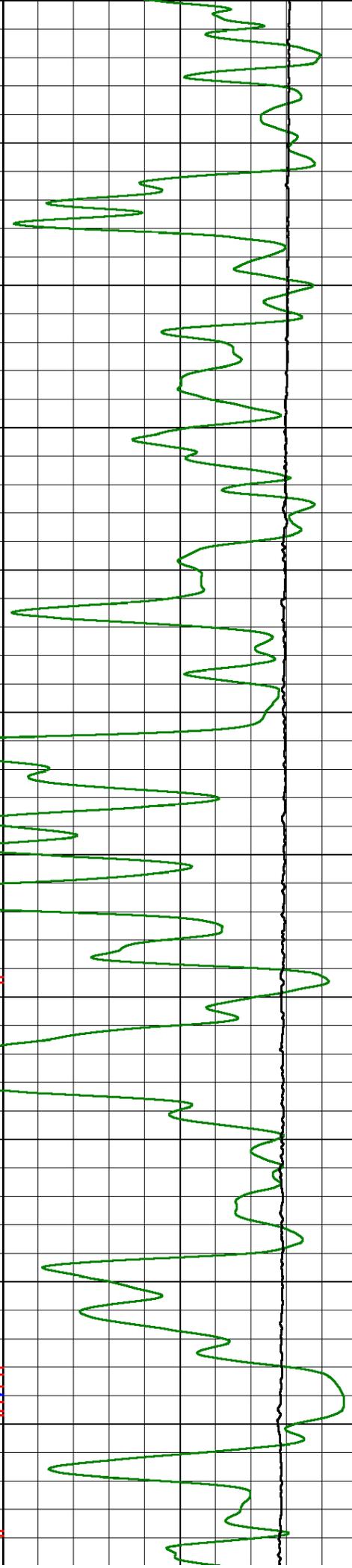
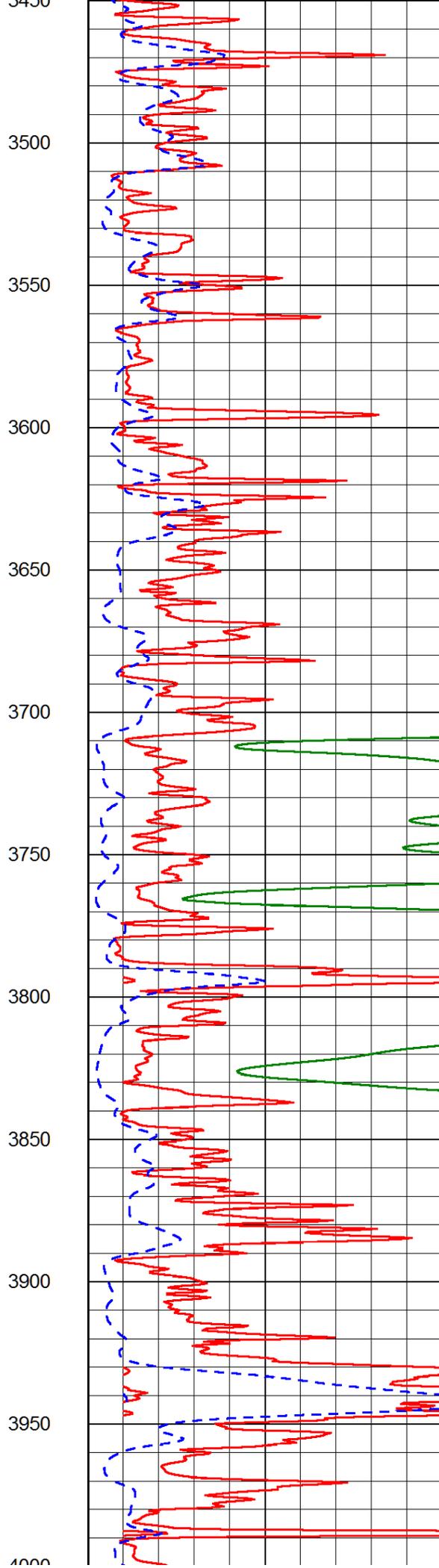
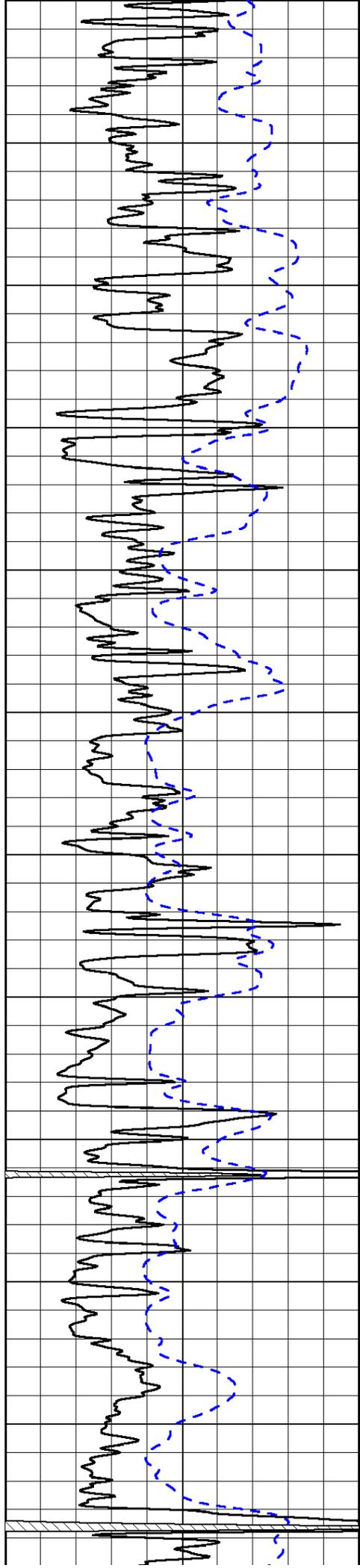


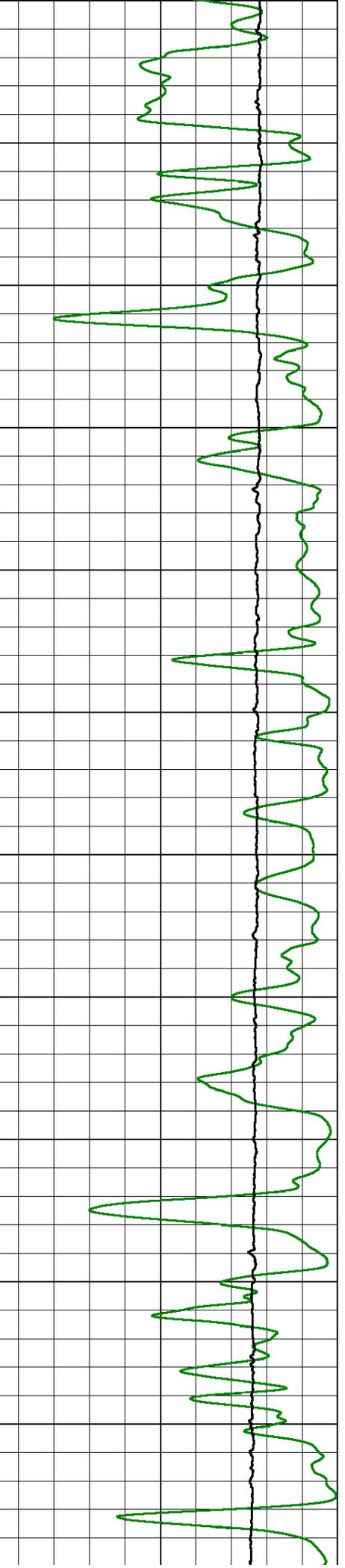
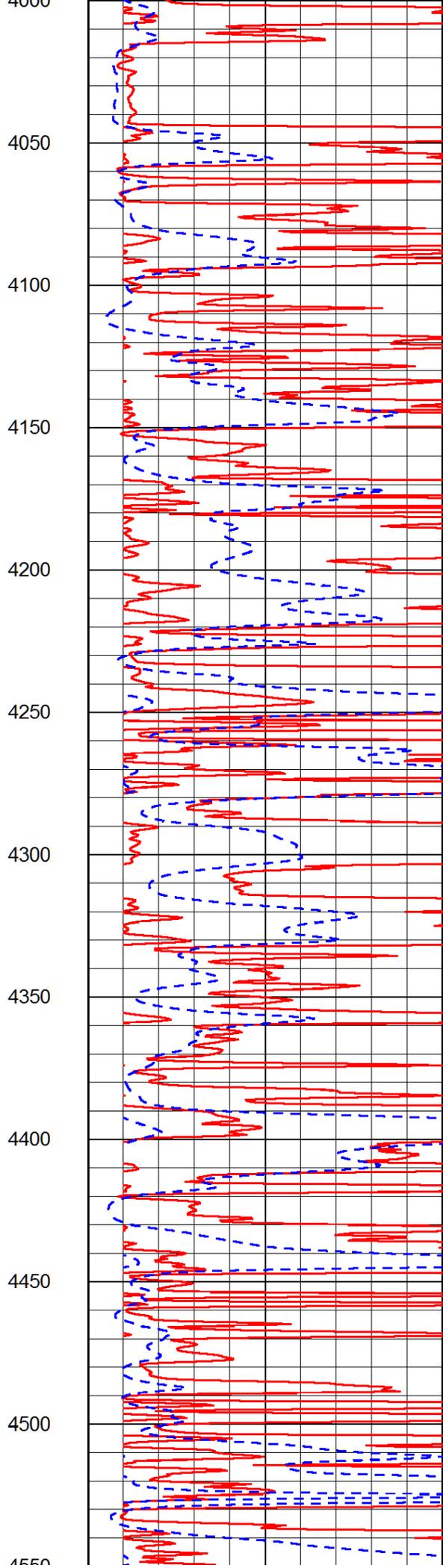
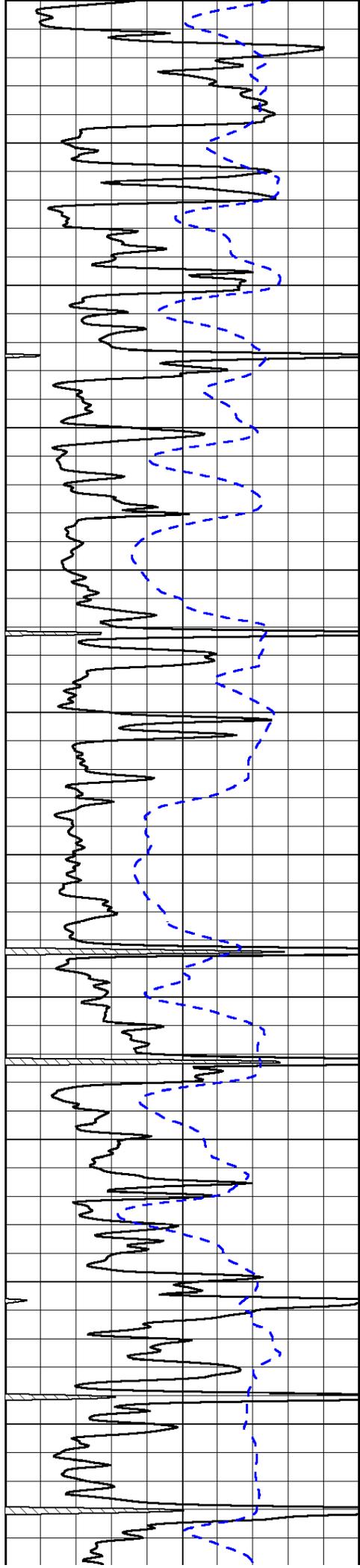


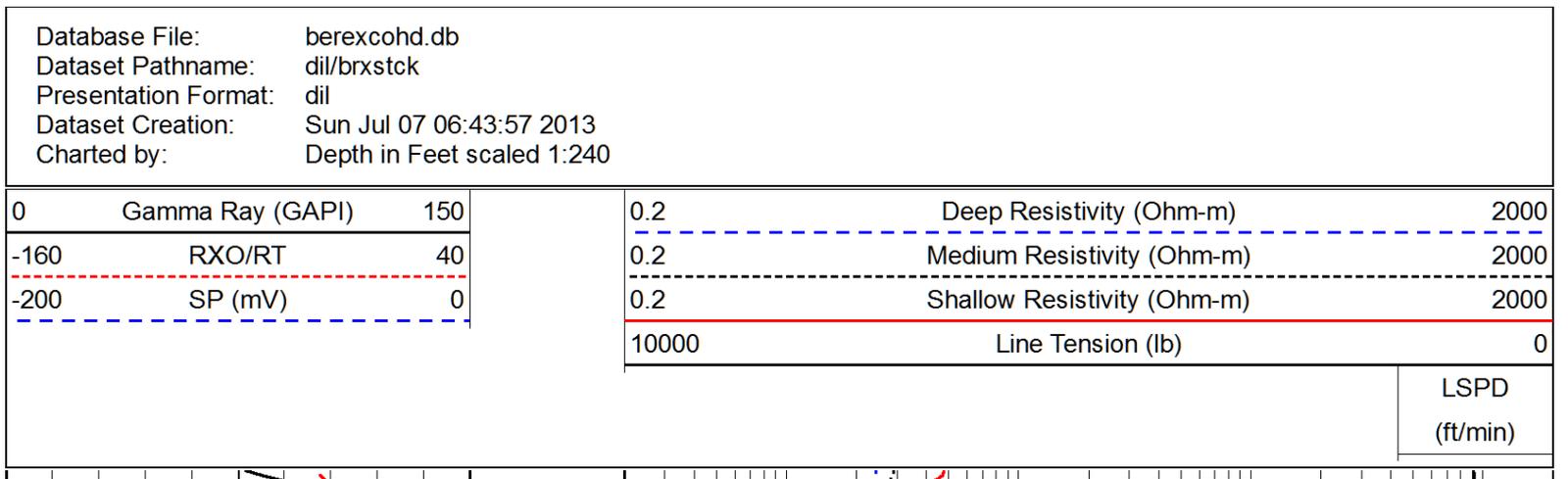
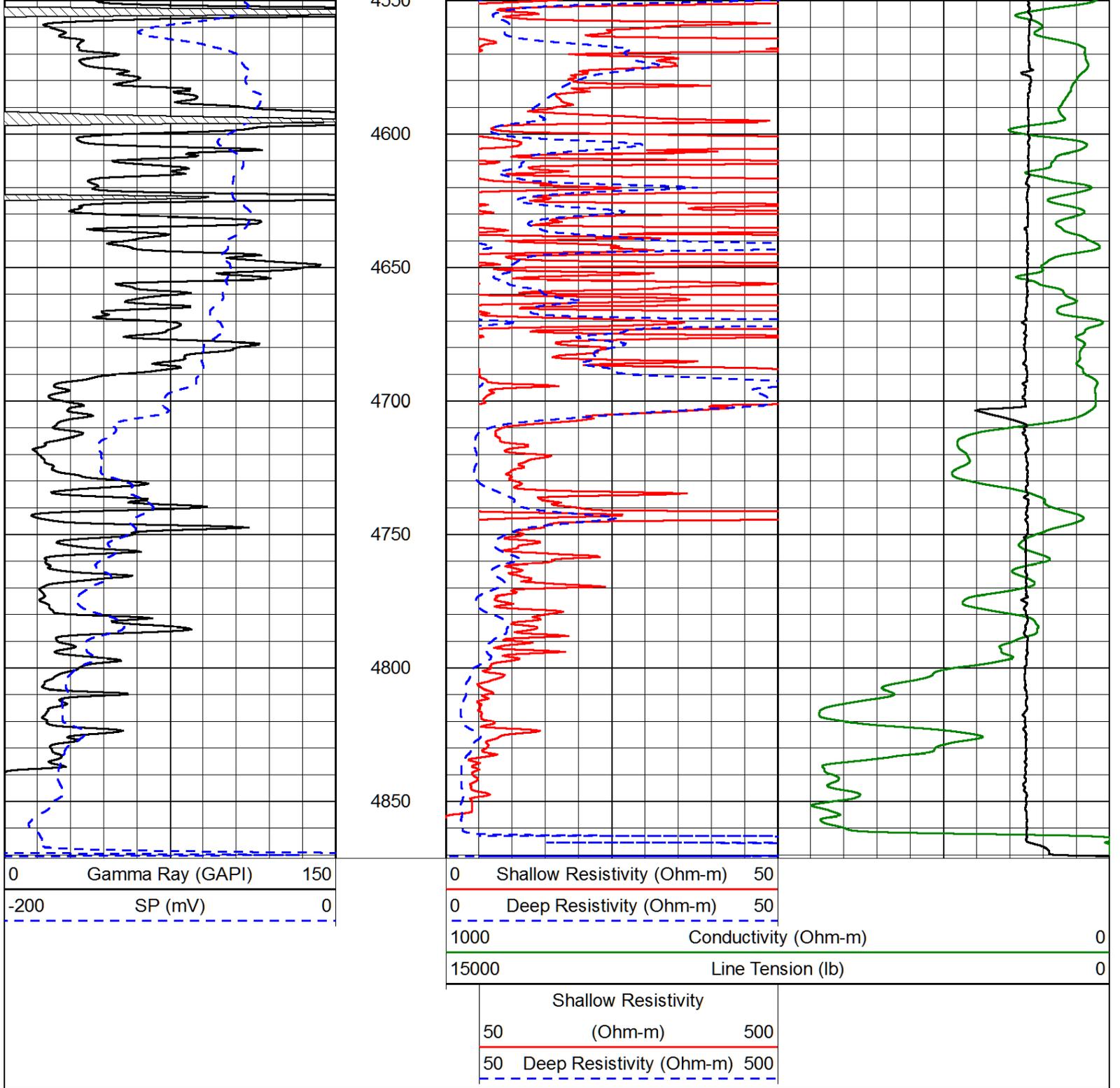


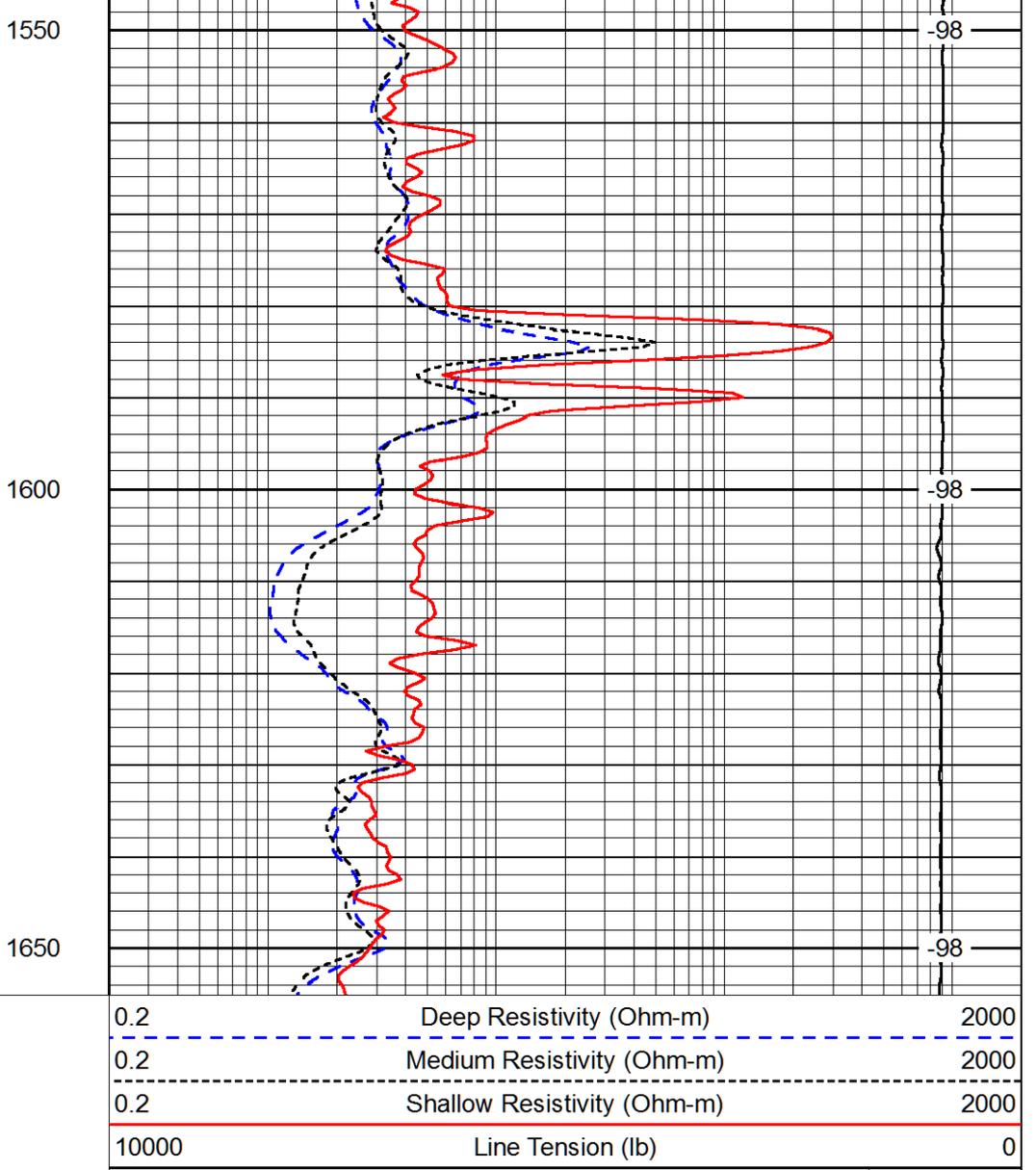
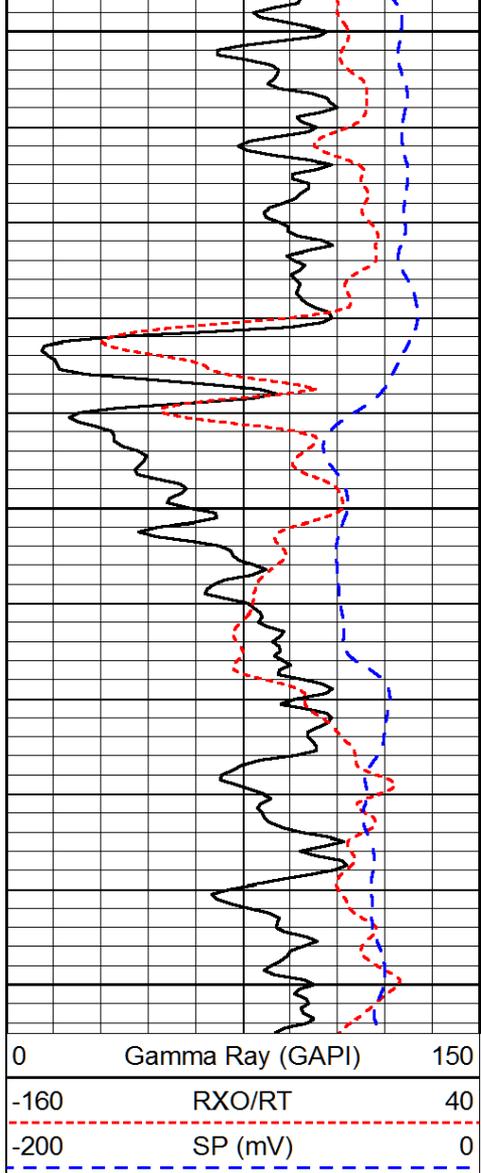






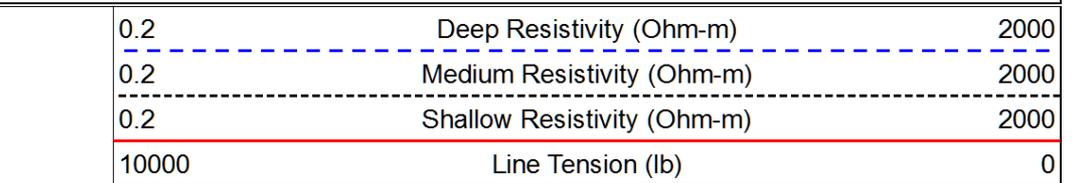
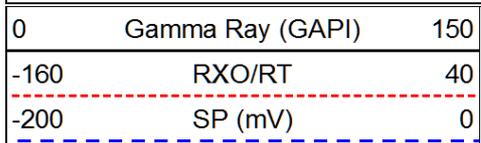




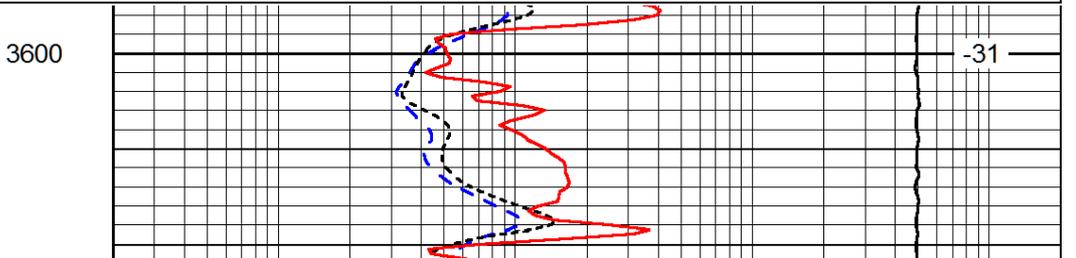
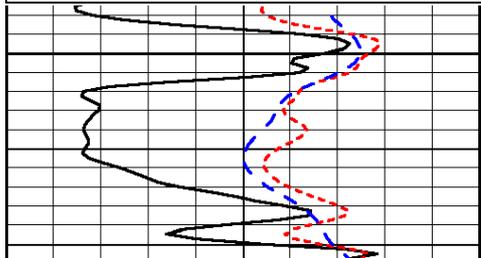


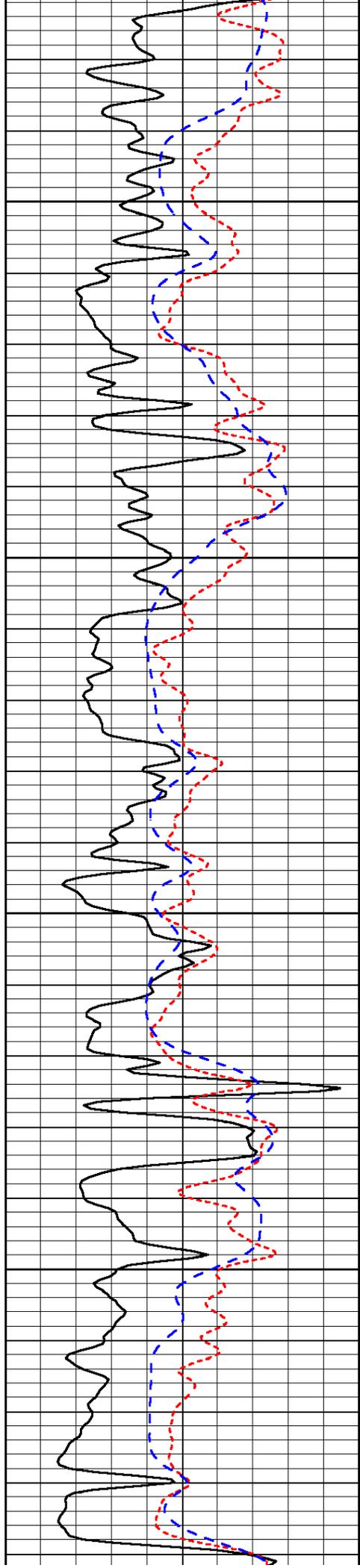
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(ft/min)

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LSPD  
(ft/min)



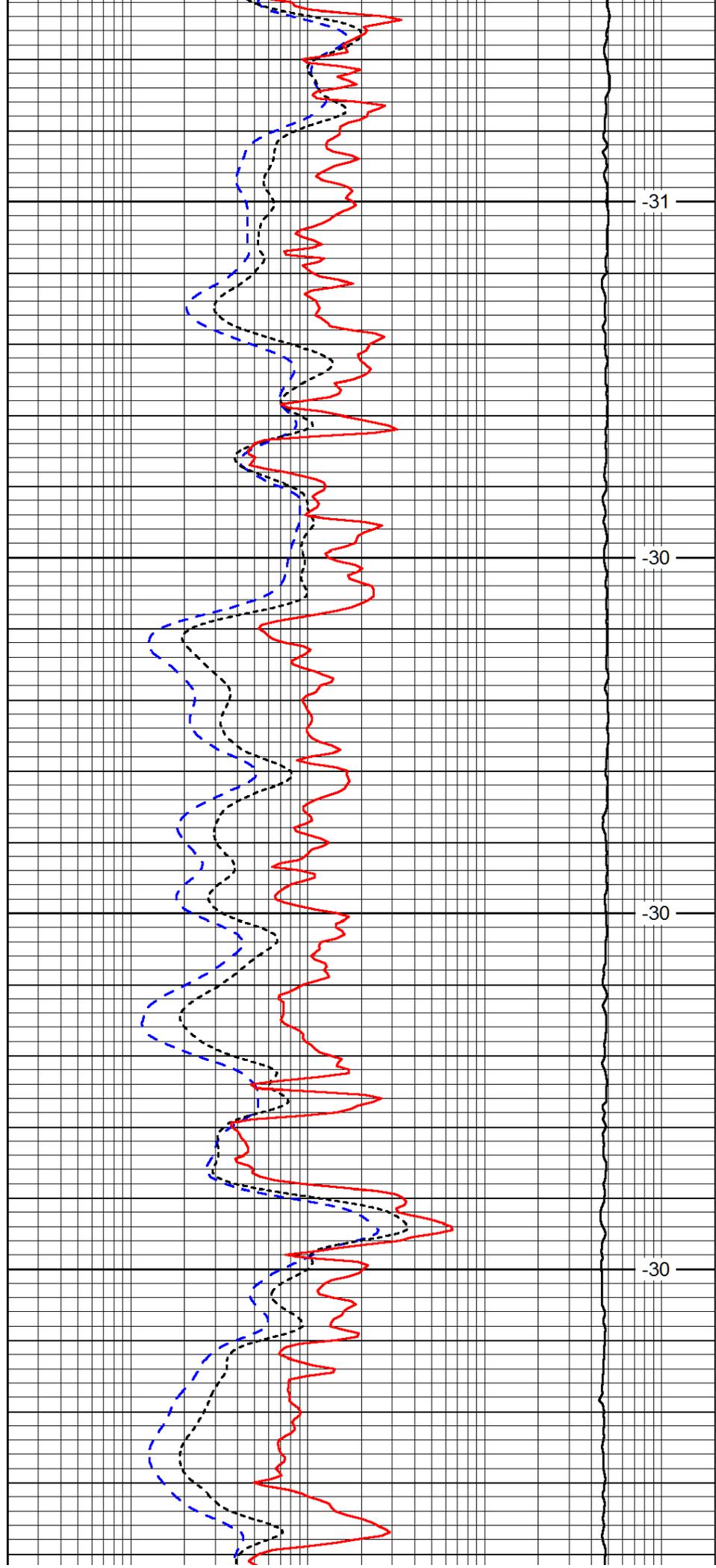


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3750

3800

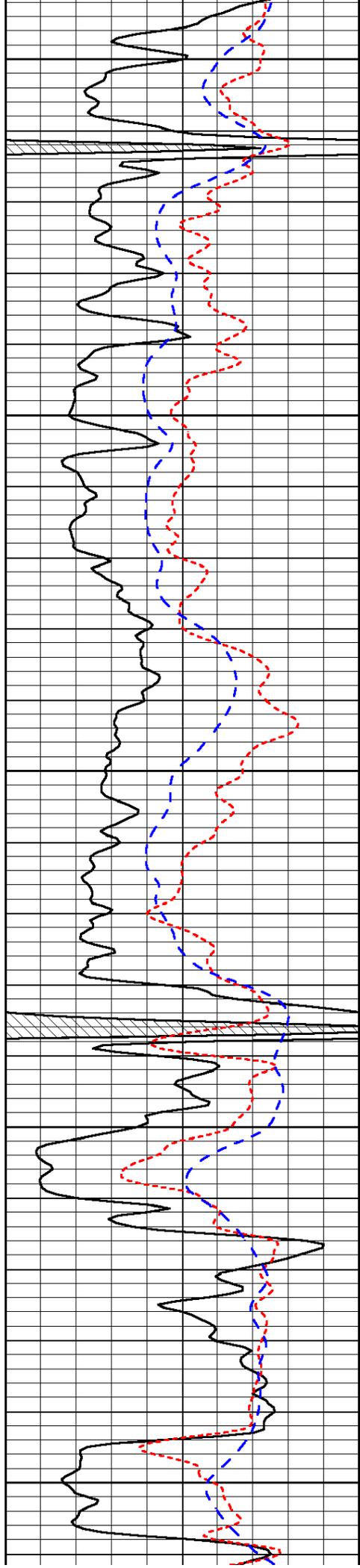


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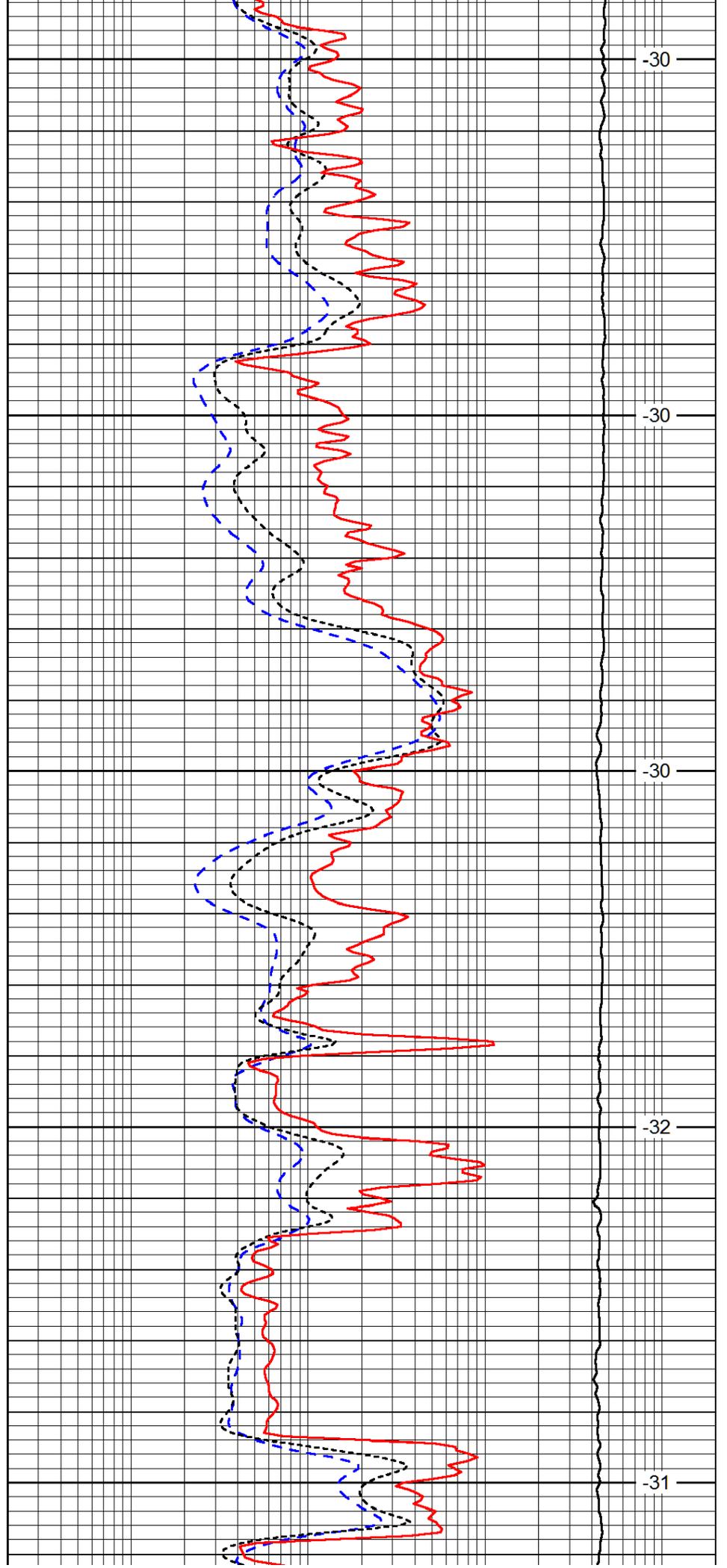
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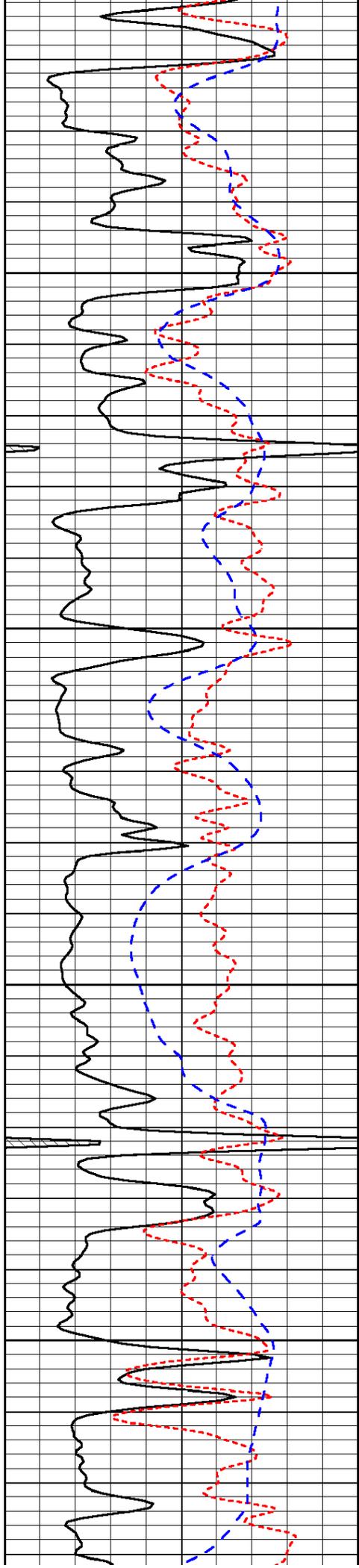
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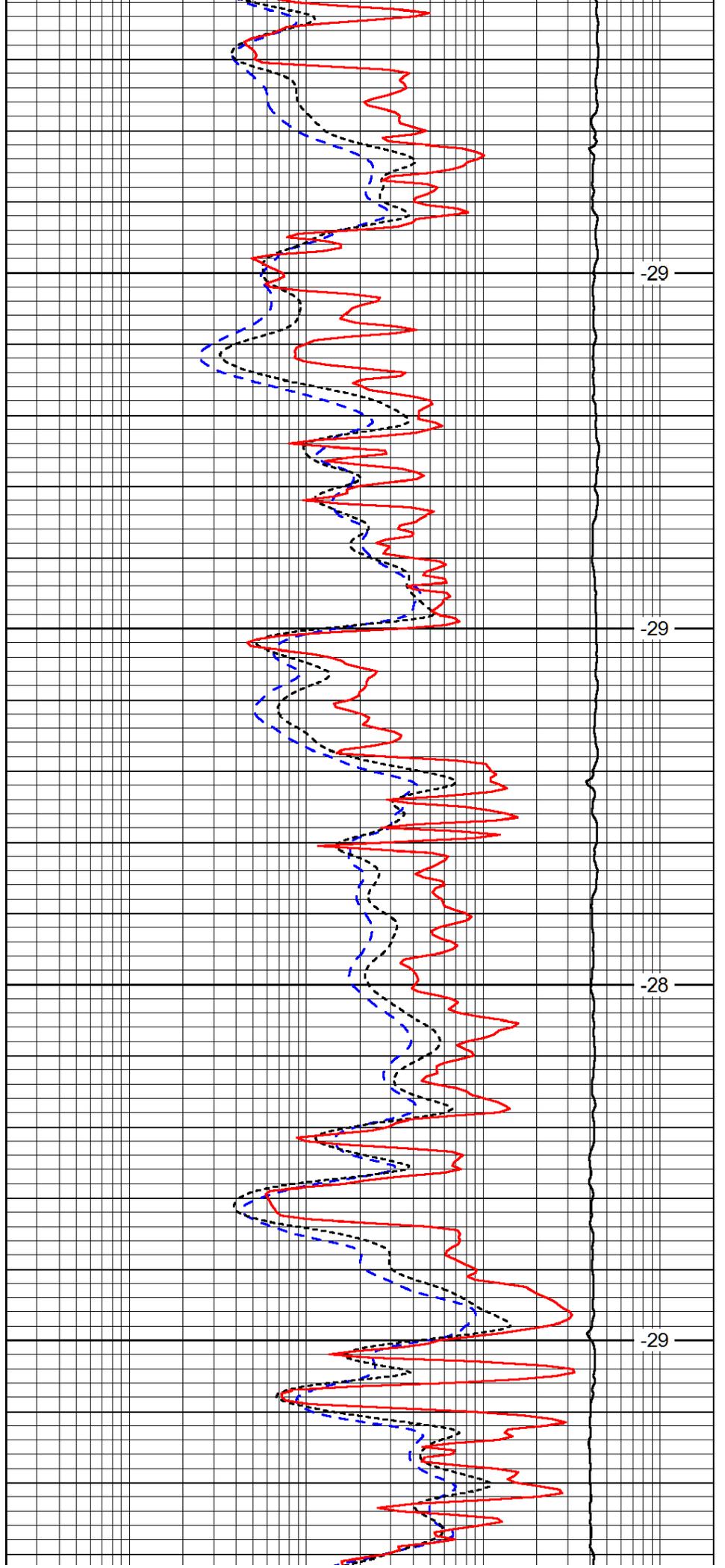


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4150

4200

4250

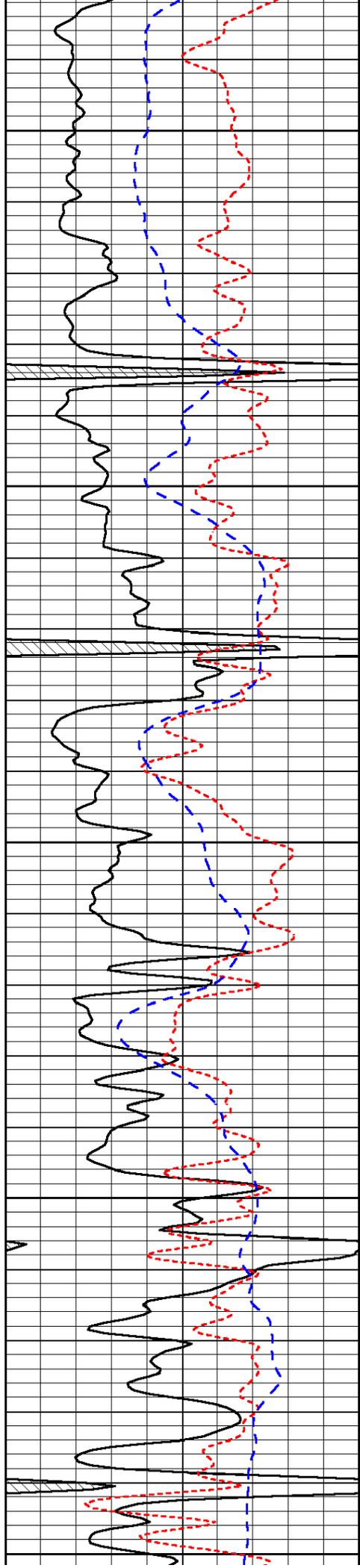


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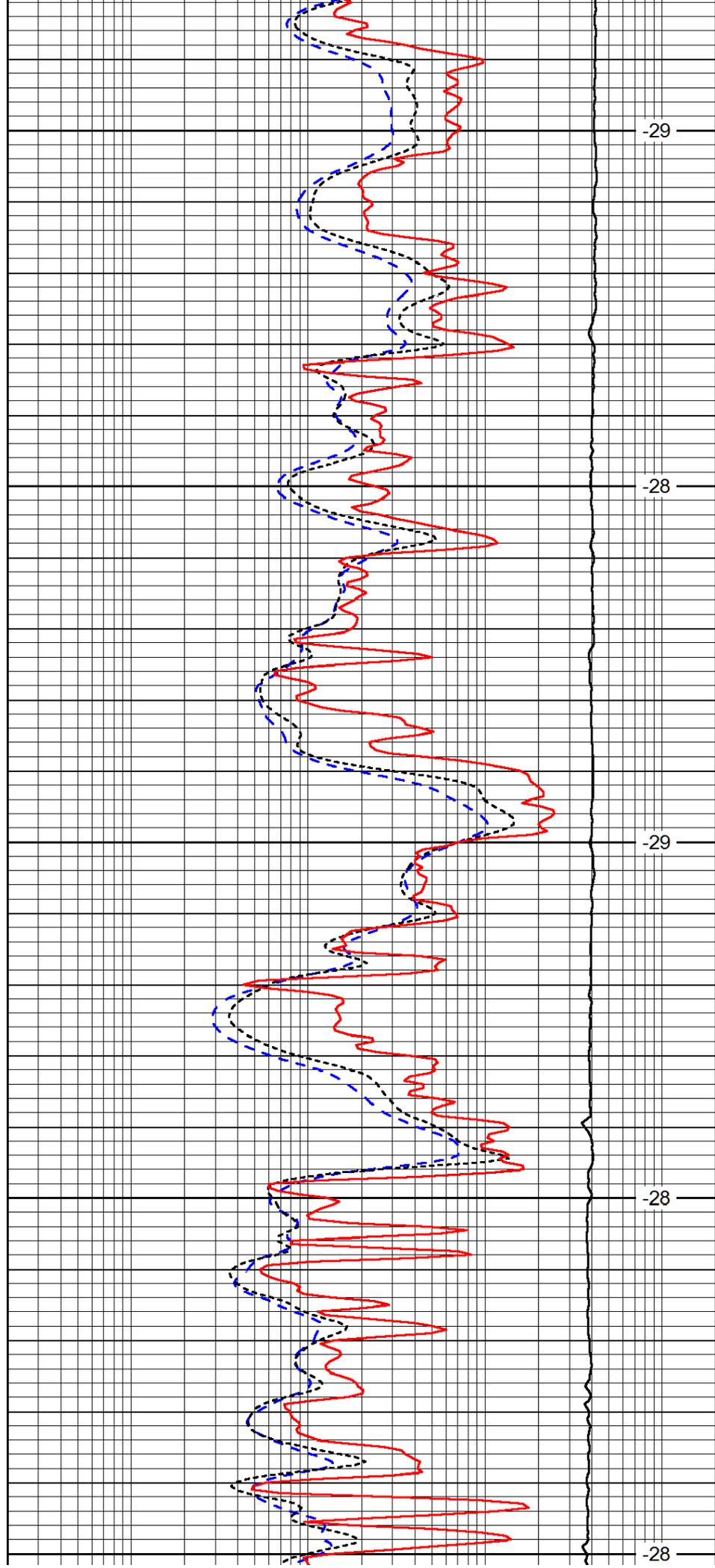
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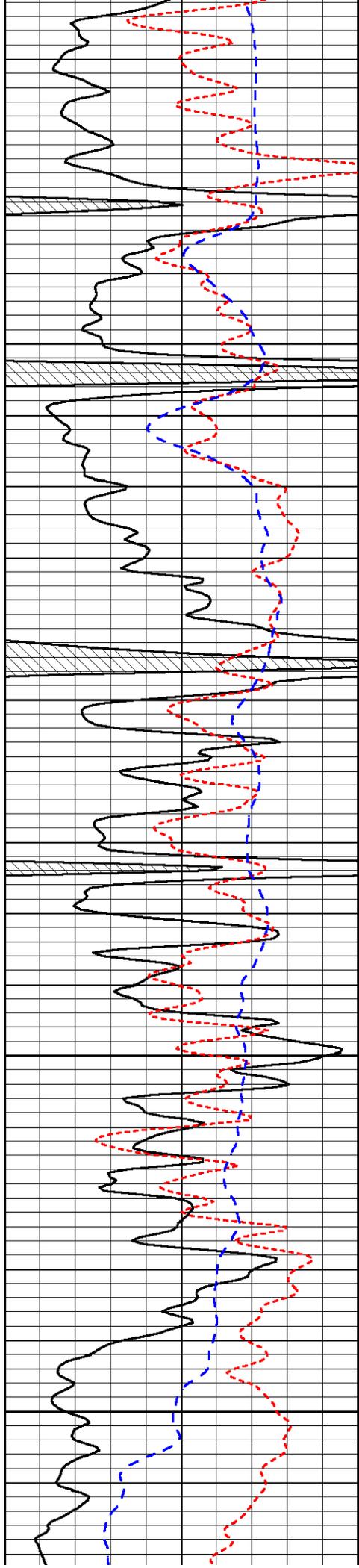
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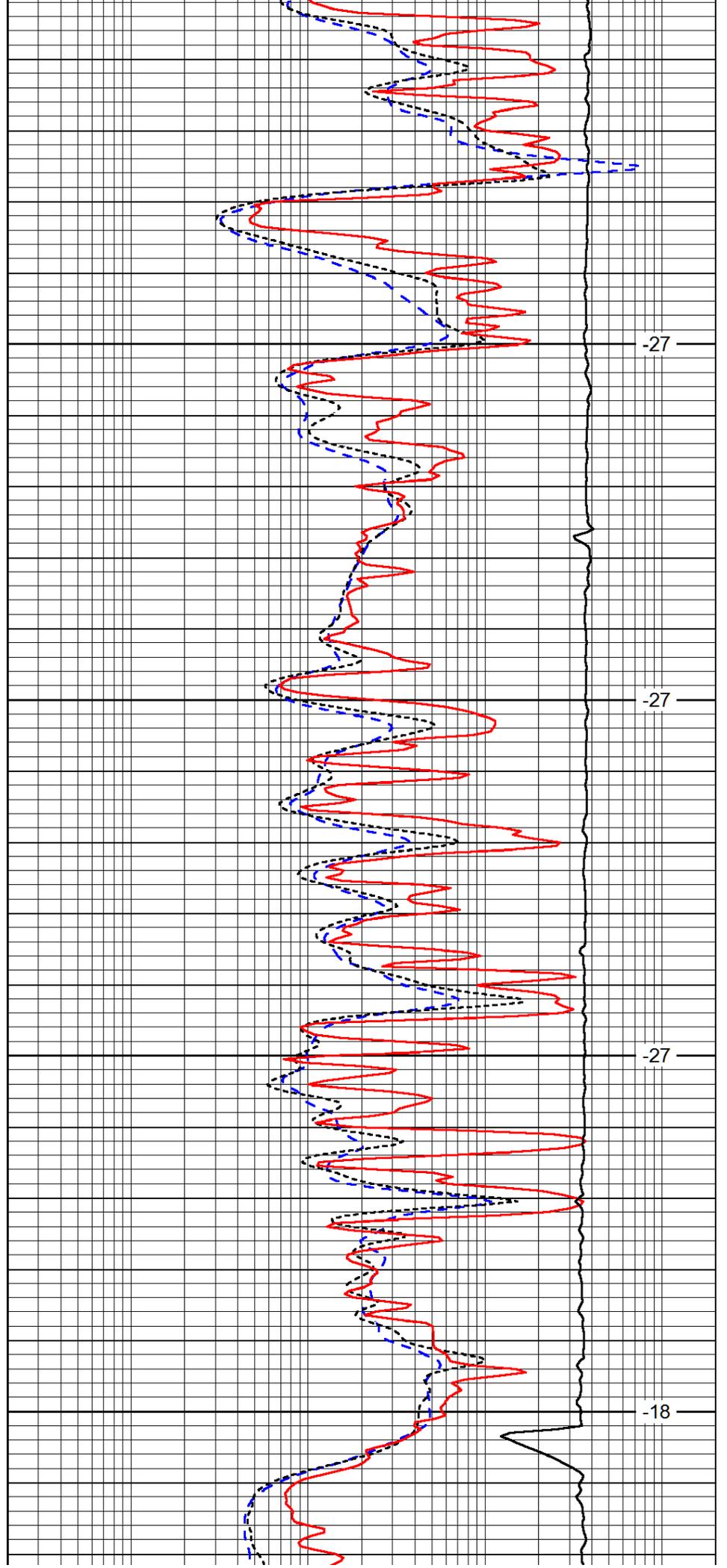


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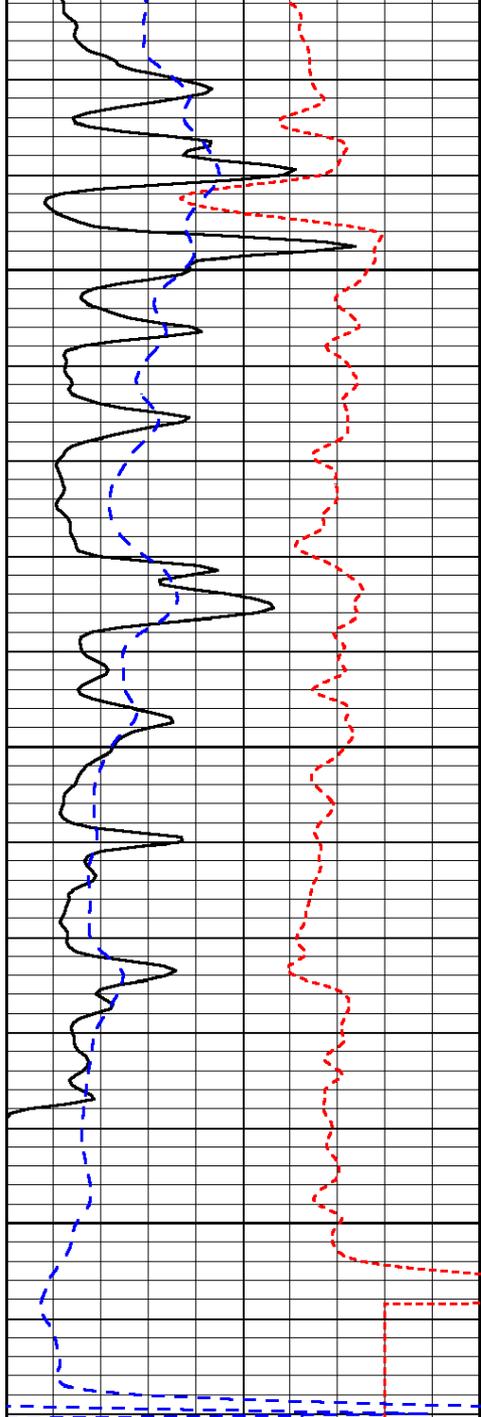


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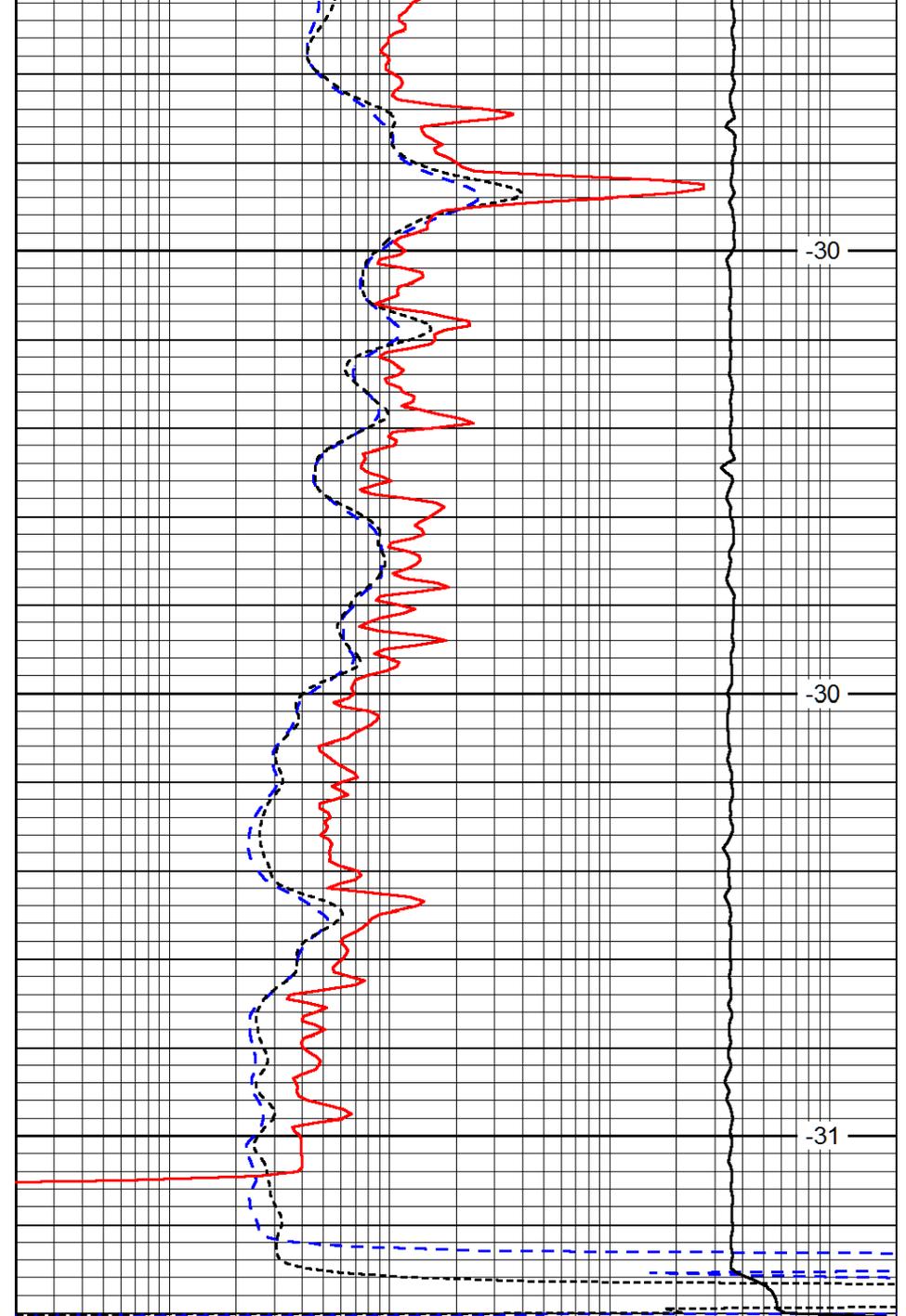


0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

4750

4800

4850



-30

-30

-31

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)