



Pioneer Energy Services

Dual Induction Log

API No.	15-041-20138-00-00		
Company	Chisholm Partners II, LLC		
Well	Wolf # 1-21		
Field	Unknown		
County	Dickinson	State	Kansas
Location	1980' FSL & 660' FWL		
Sec: 21	Twp: 11 S	Rge: 1 E	Other Services CNL/CDL MEL/BHCS

Permanent Datum	Ground Level	Elevation 1309	K.B. 1319
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	D.F. 1309
Drilling Measured From	Kelly Bushing		G.L. 1309
Date	02-16-2013		
Run Number	One		
Depth Driller	3390		
Depth Logger	3391		
Bottom Logged Interval	3390		
Top Log Interval	200		
Casing Driller	8.625 @ 224		
Casing Logger	222		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	500		
Density / Viscosity	9.3	89	
pH / Fluid Loss	9.5	6.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.12	@ 36	
Rmf @ Meas. Temp	0.93	@ 36	
Rmc @ Meas. Temp	1.68	@ 36	
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.40	@ 112	
Operating Rig Time	5 Hours		
Max Rec. Temp. F	112		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Justin Carter		

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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.

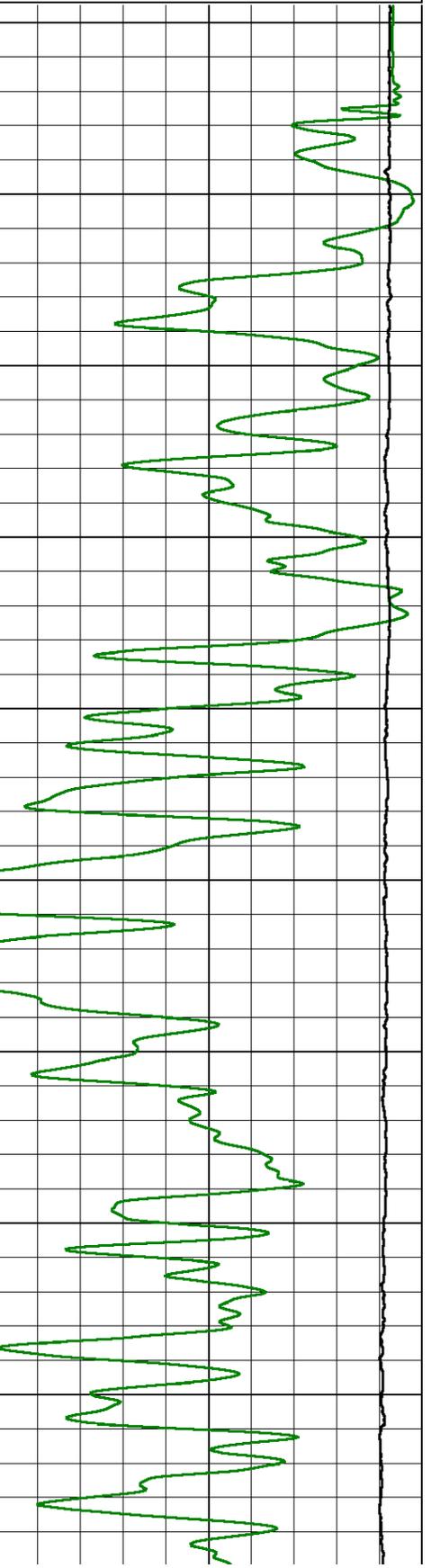
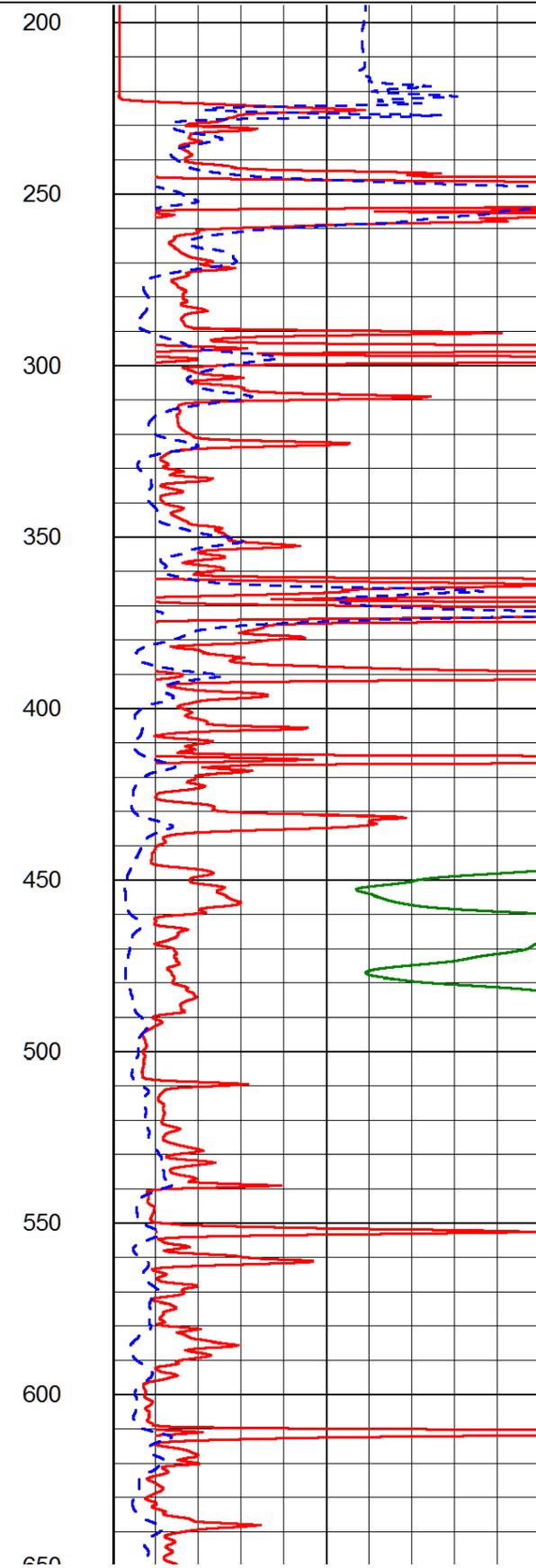
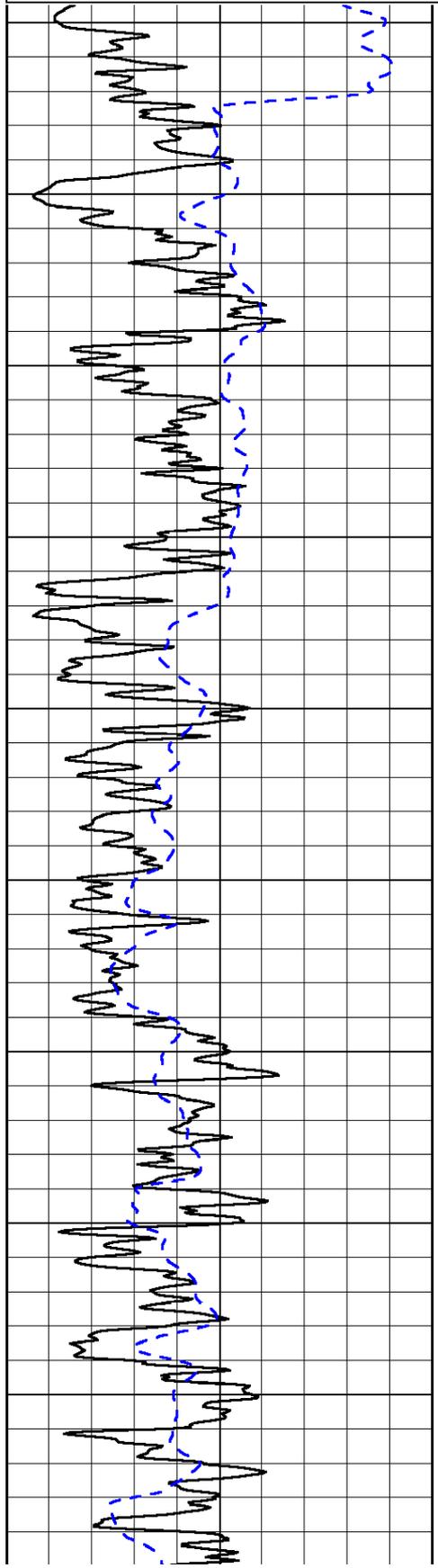
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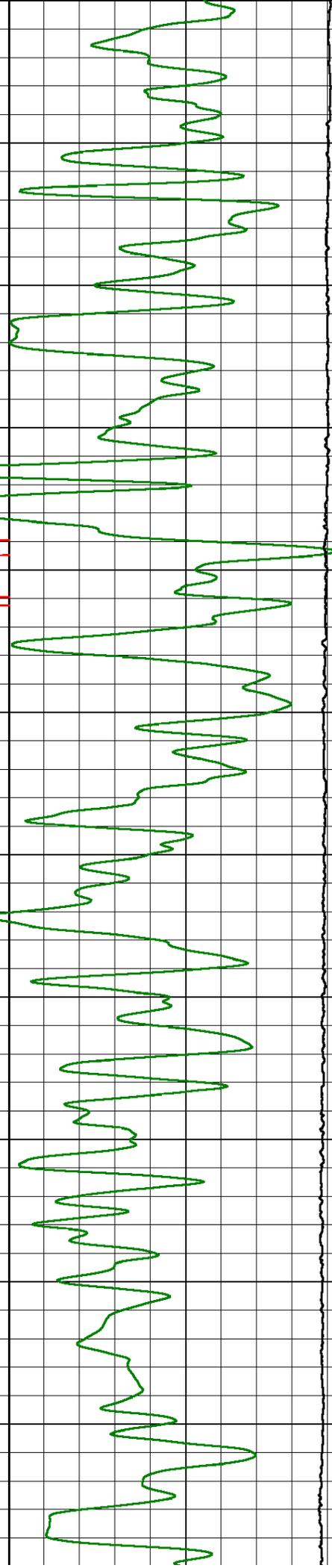
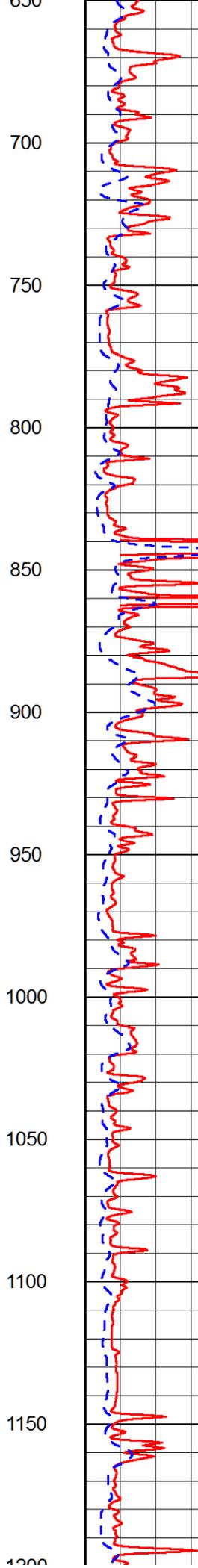
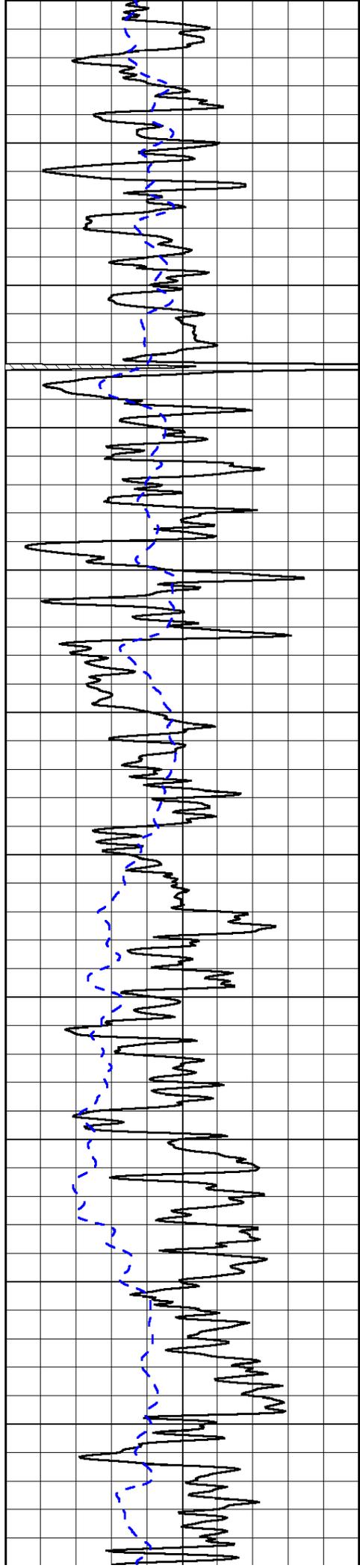
Thank you for using Log-Tech, Inc.
 (785) 625-3858
 Solomon,
 7 North to Hwy 18, 2 East to Camp Rd,
 3 1/4 North,
 East into

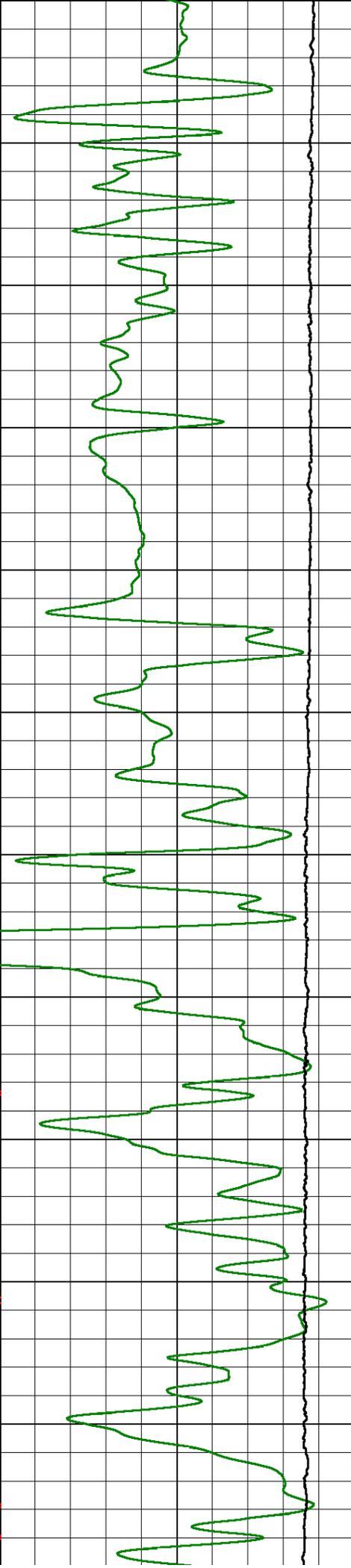
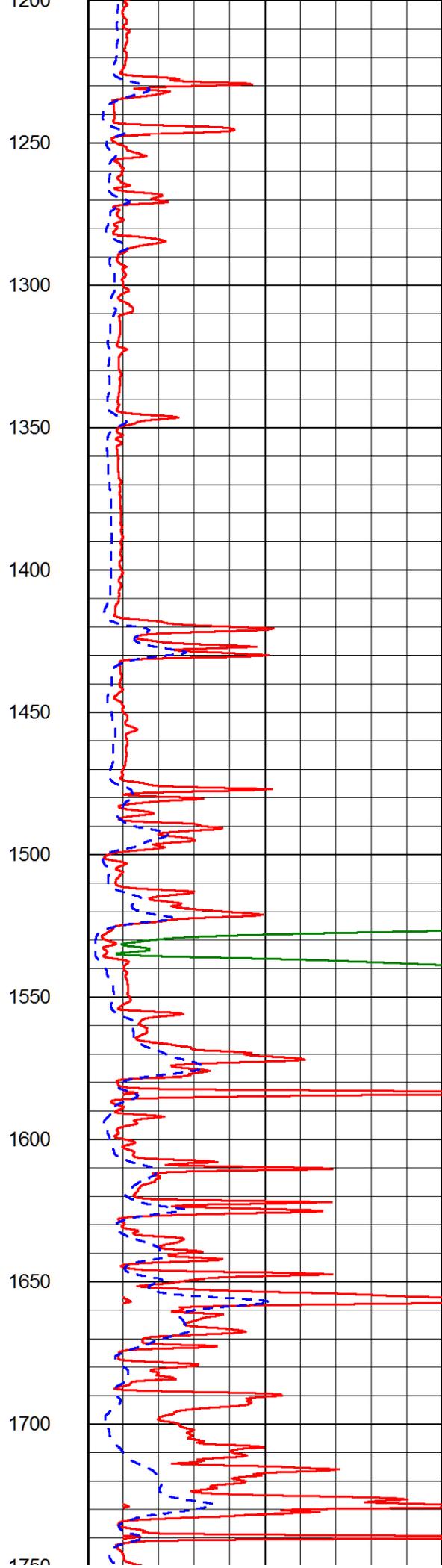
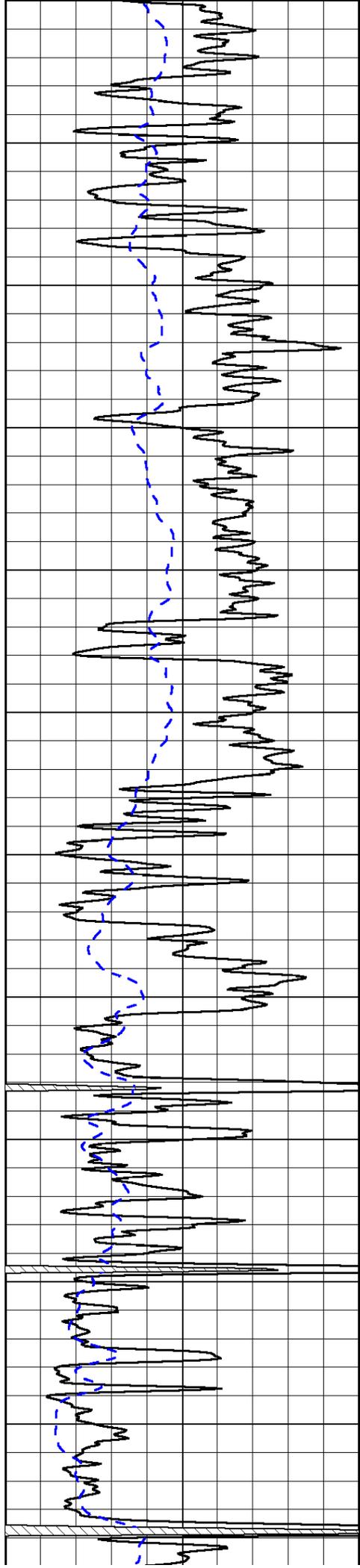
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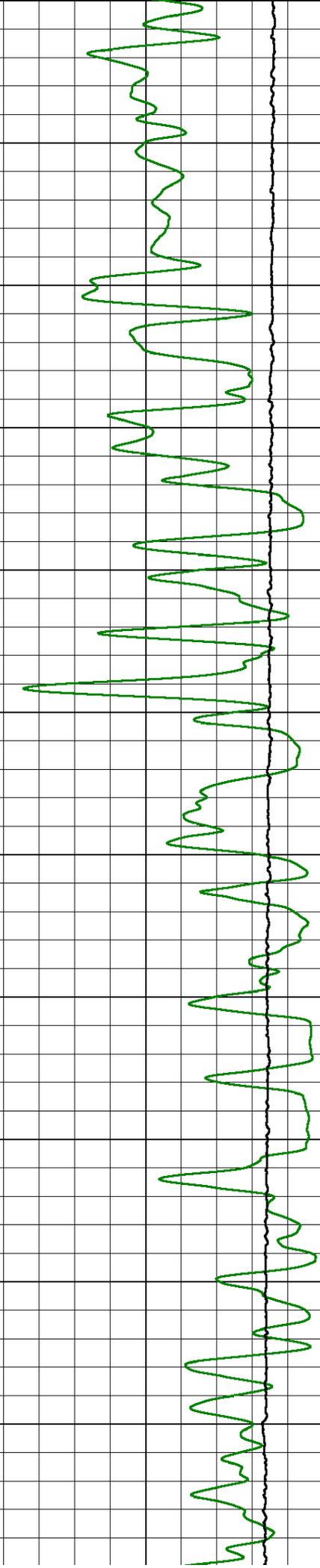
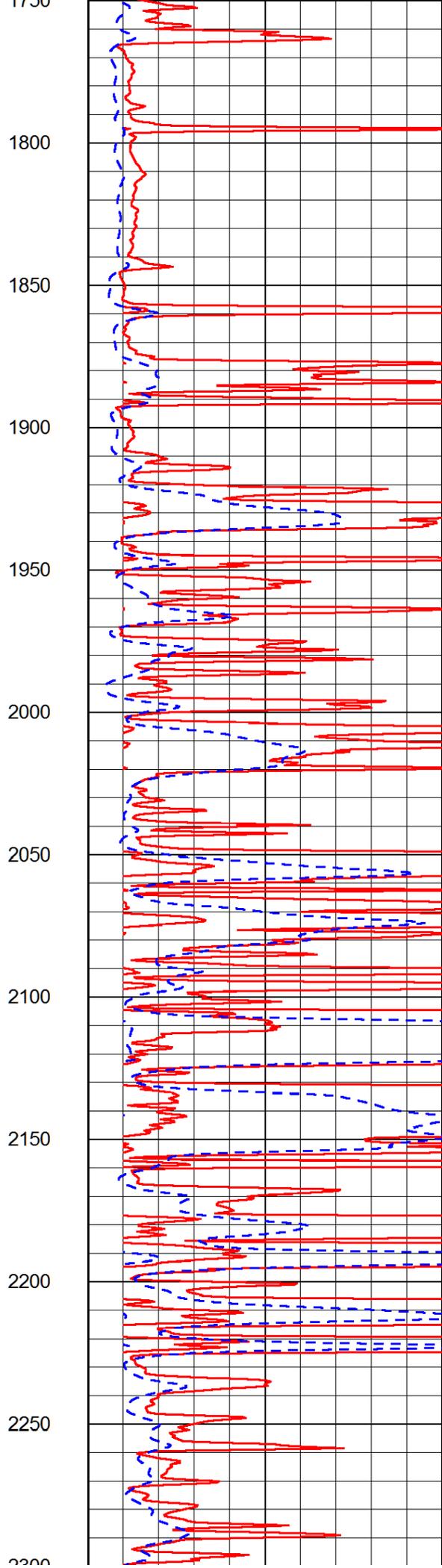
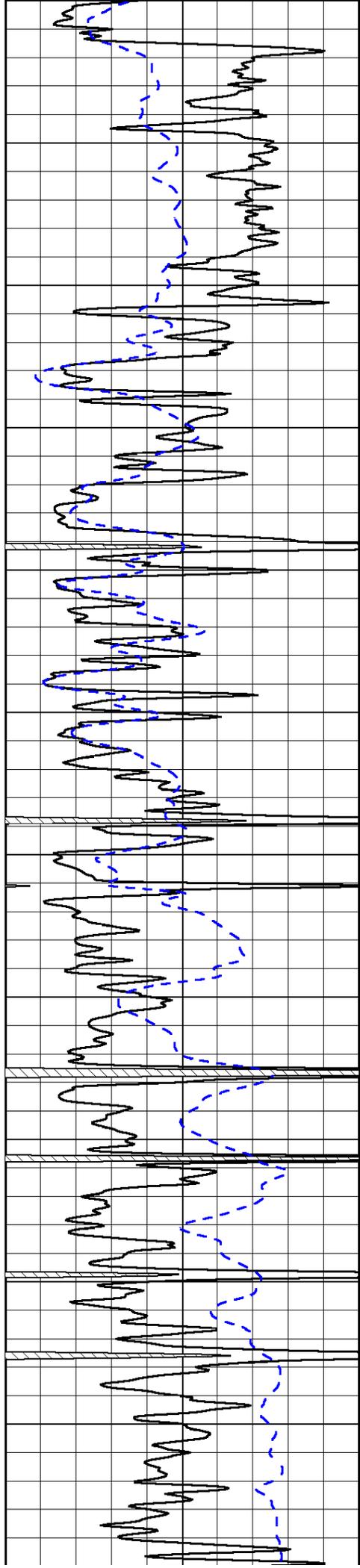
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-200	SP (mV)	0

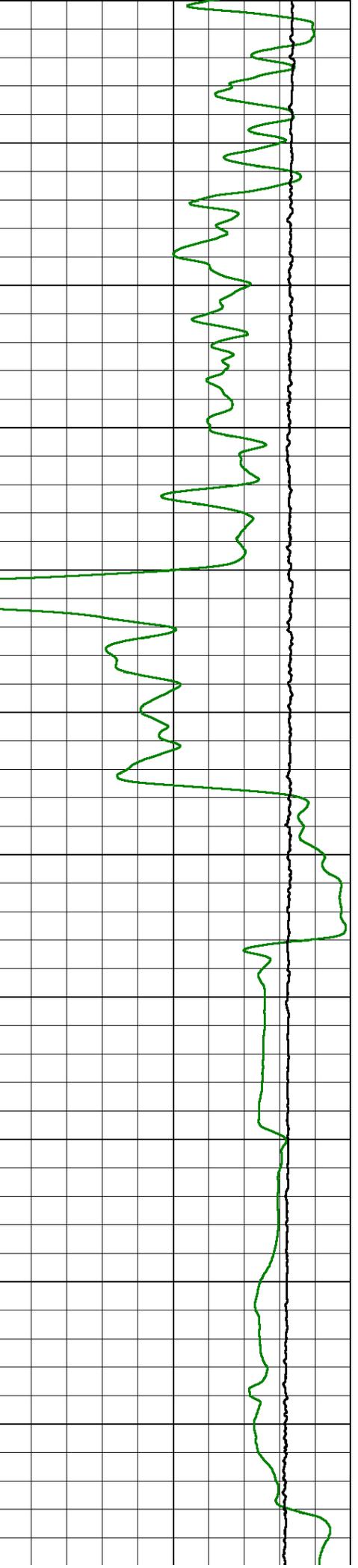
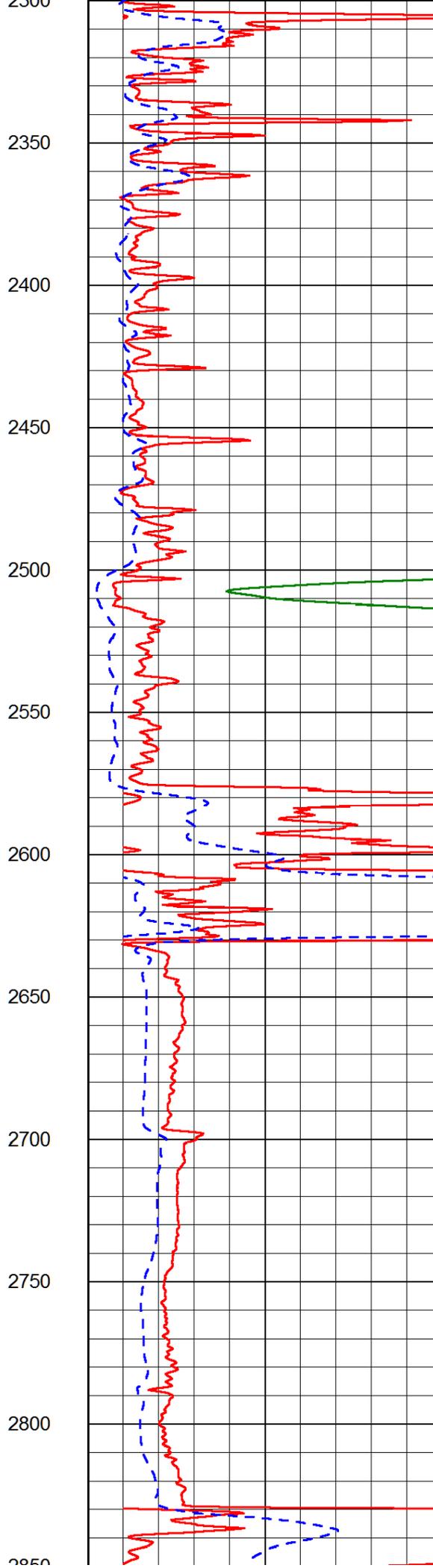
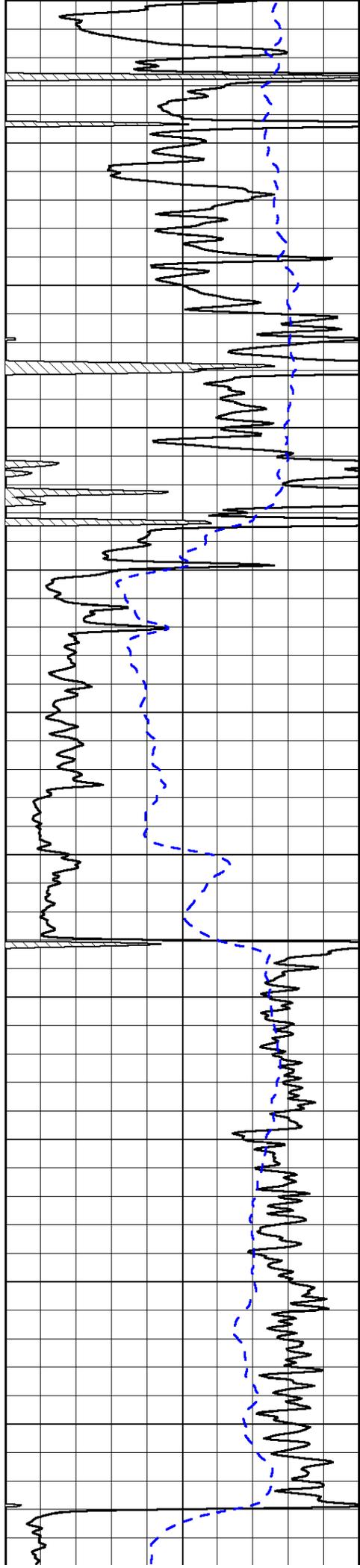
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0	Deep Resistivity (Ohm-m)	50
1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
50	Shallow Resistivity (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

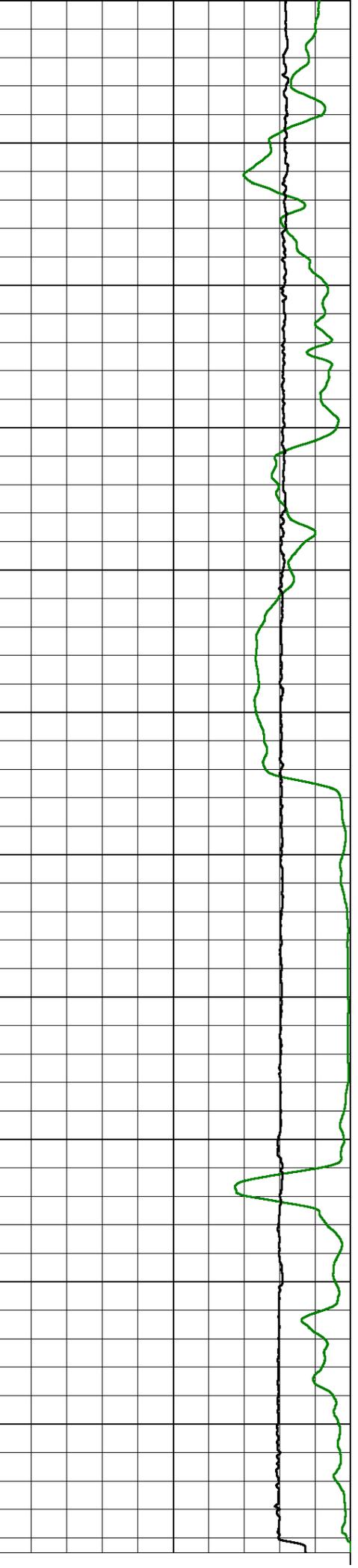
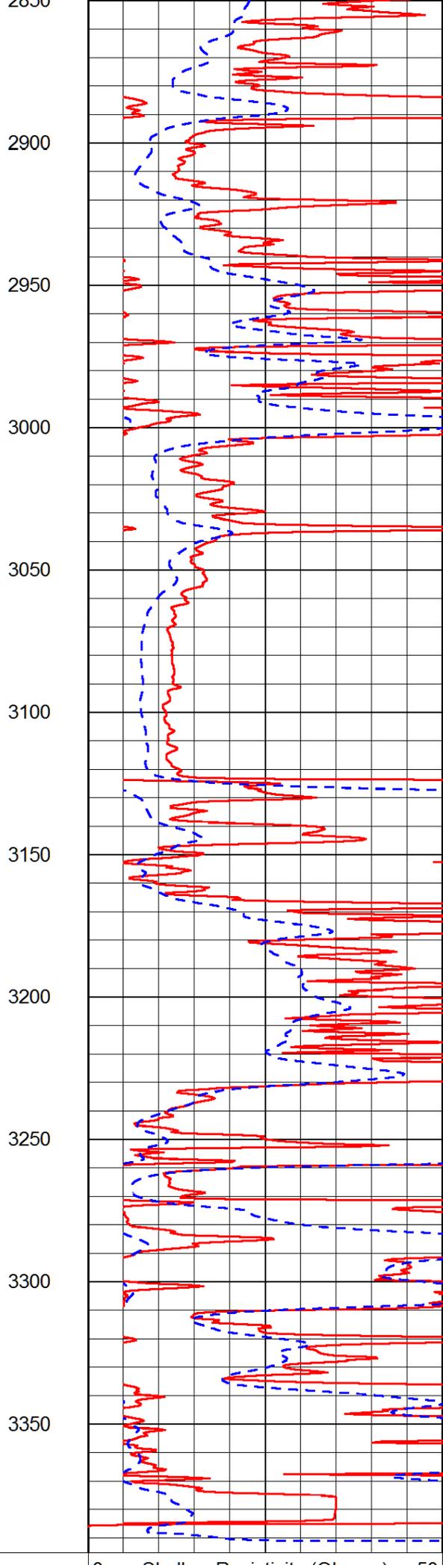
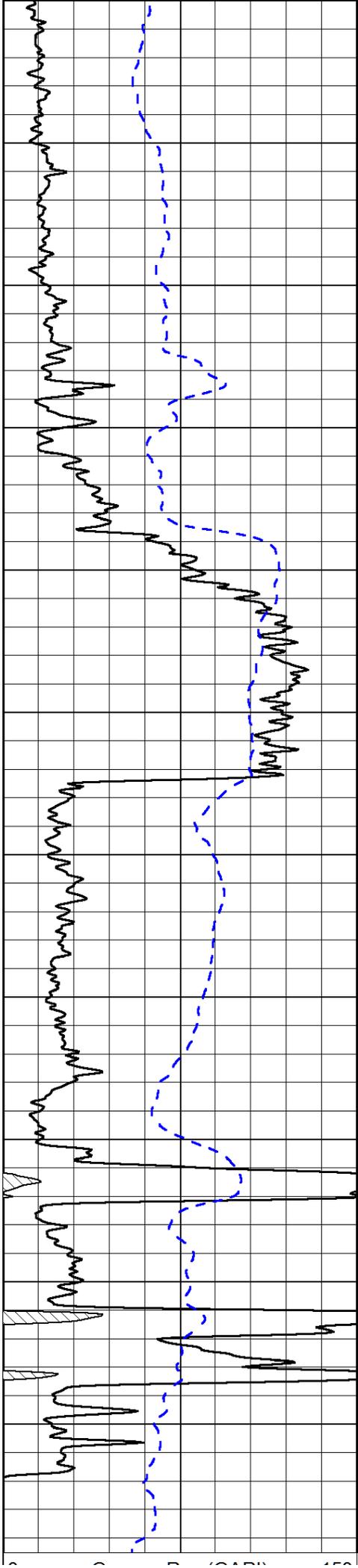












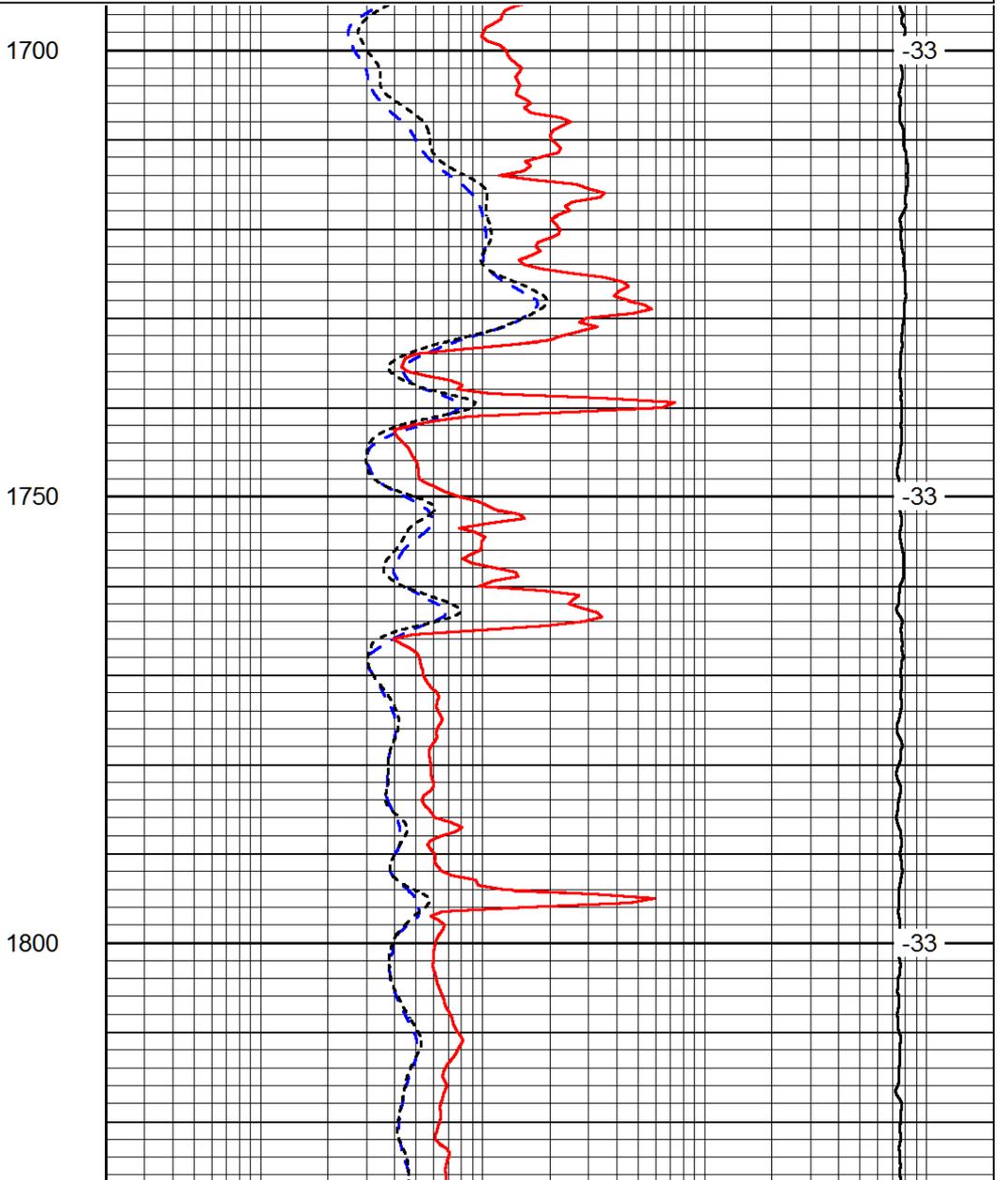
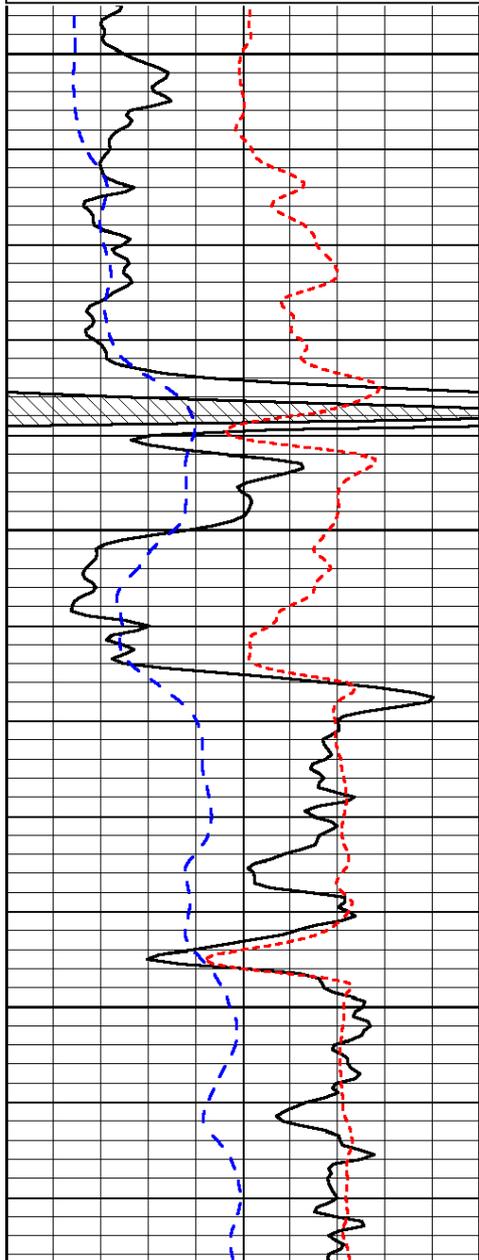
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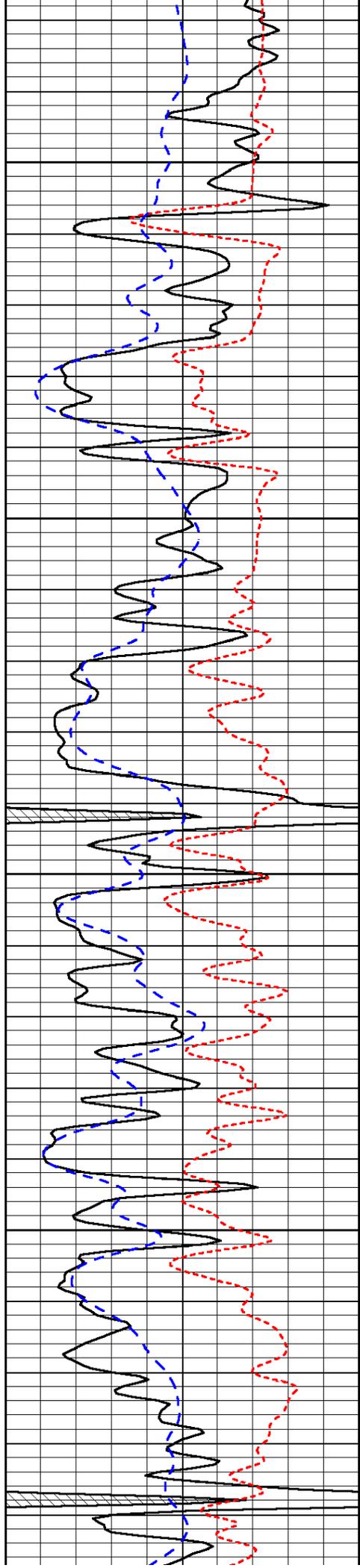
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1000	Conductivity (Ohm-m)	0
15000	Line Tension (lb)	0
Shallow Resistivity		
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File: chisholm021613hd.db
 Dataset Pathname: dil/chstack
 Presentation Format: dil
 Dataset Creation: Sat Feb 16 14:20:43 2013
 Charted by: Depth in Feet scaled 1:240

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)



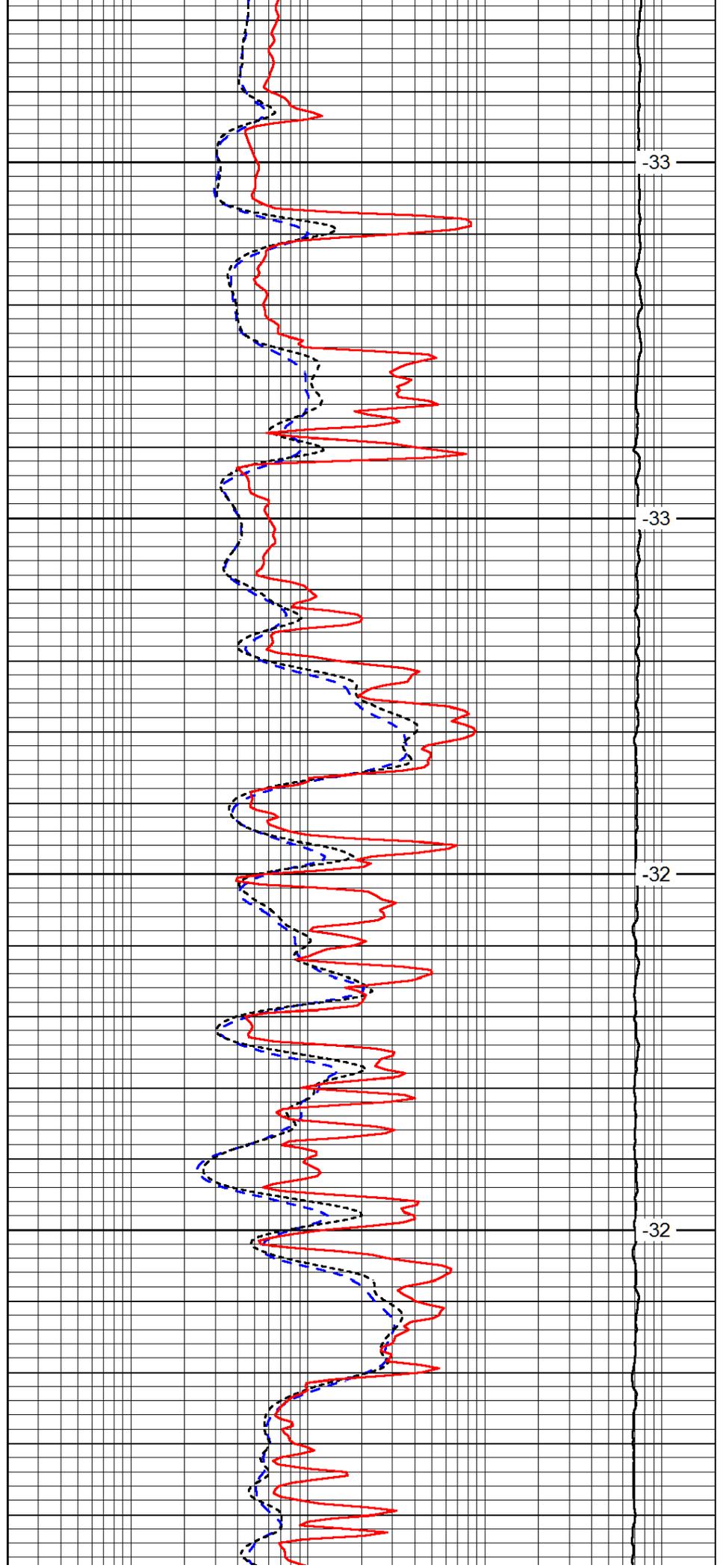


1850

1900

1950

2000

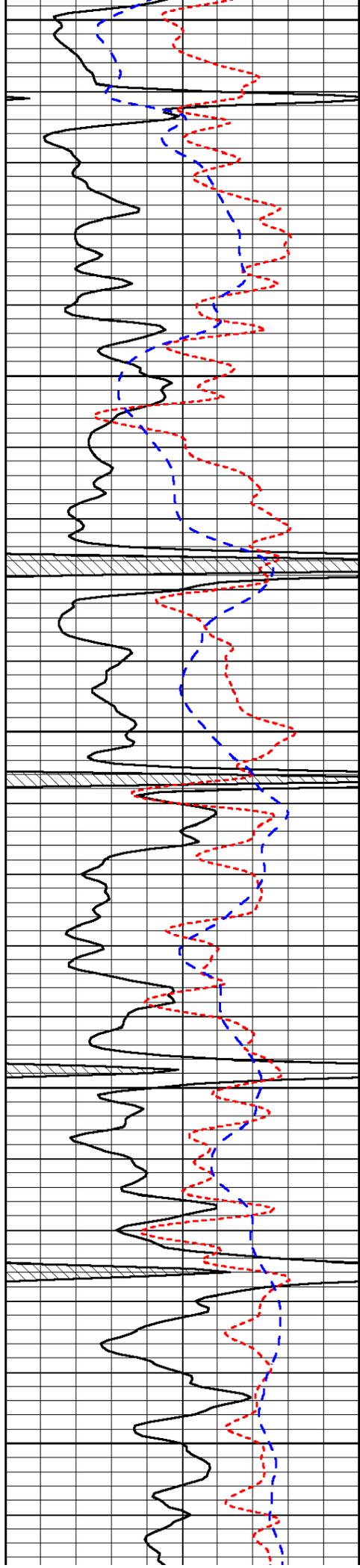


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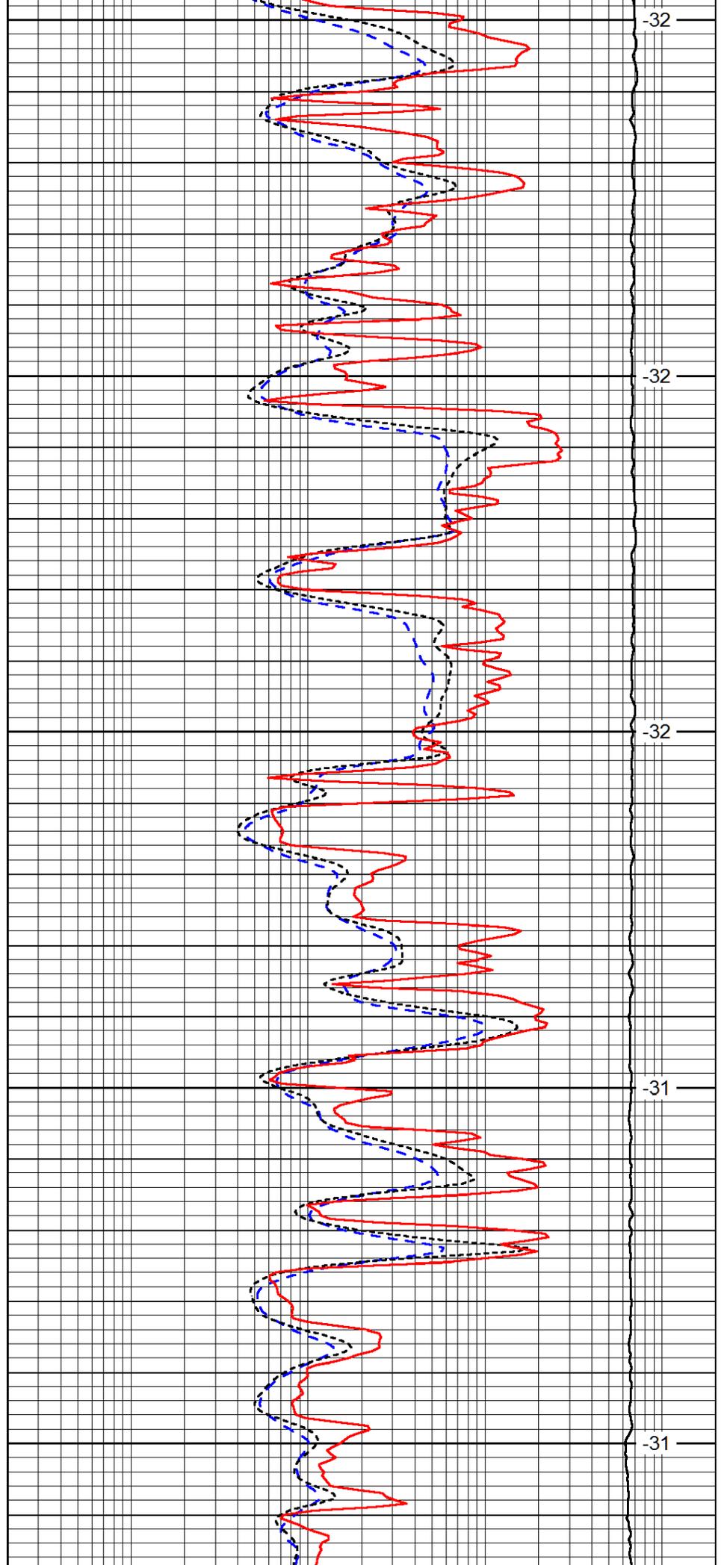
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2100

2150

2200

2250



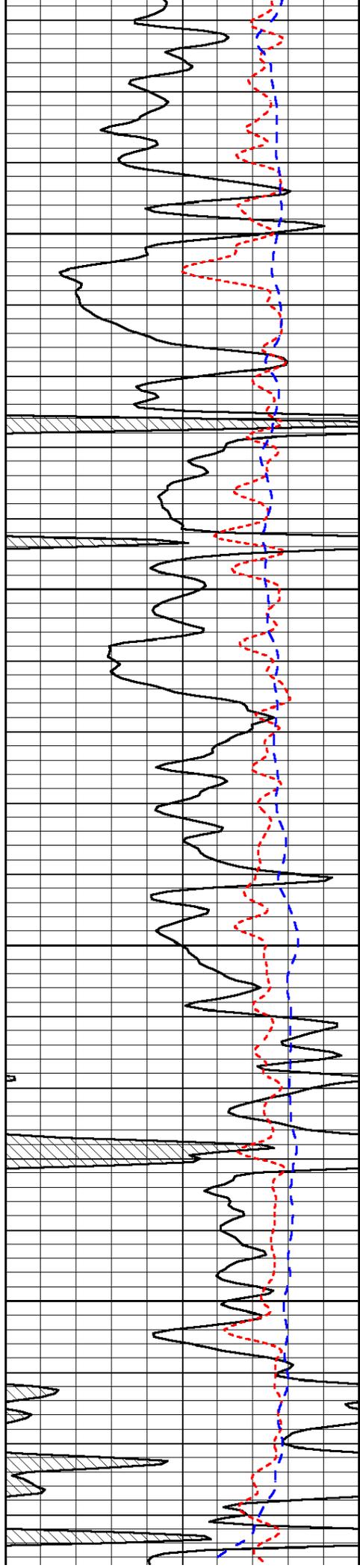
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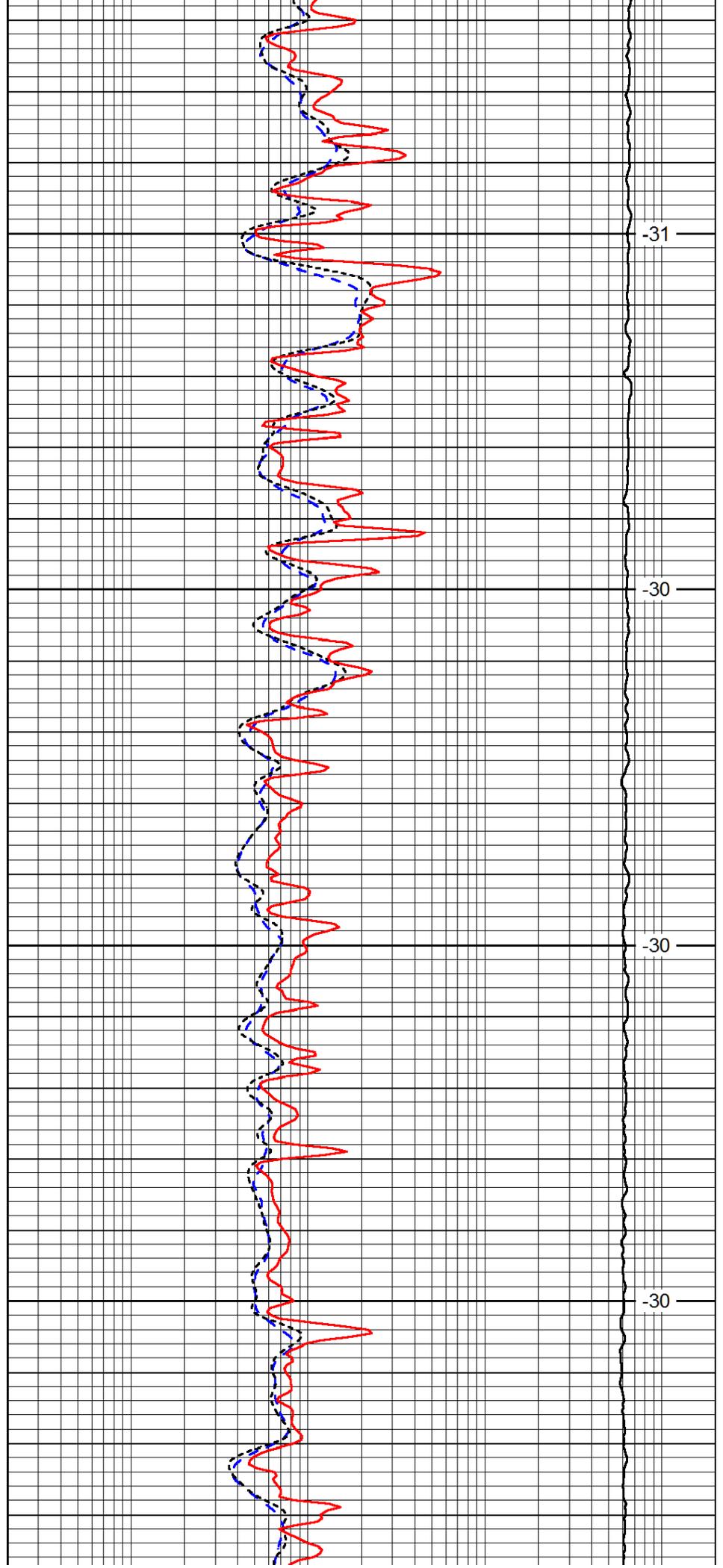


2300

2350

2400

2450

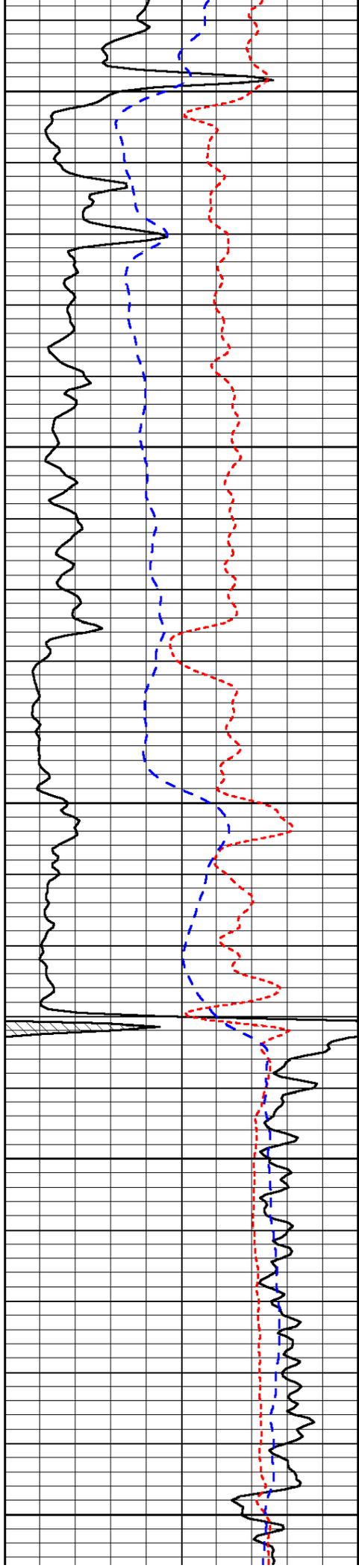


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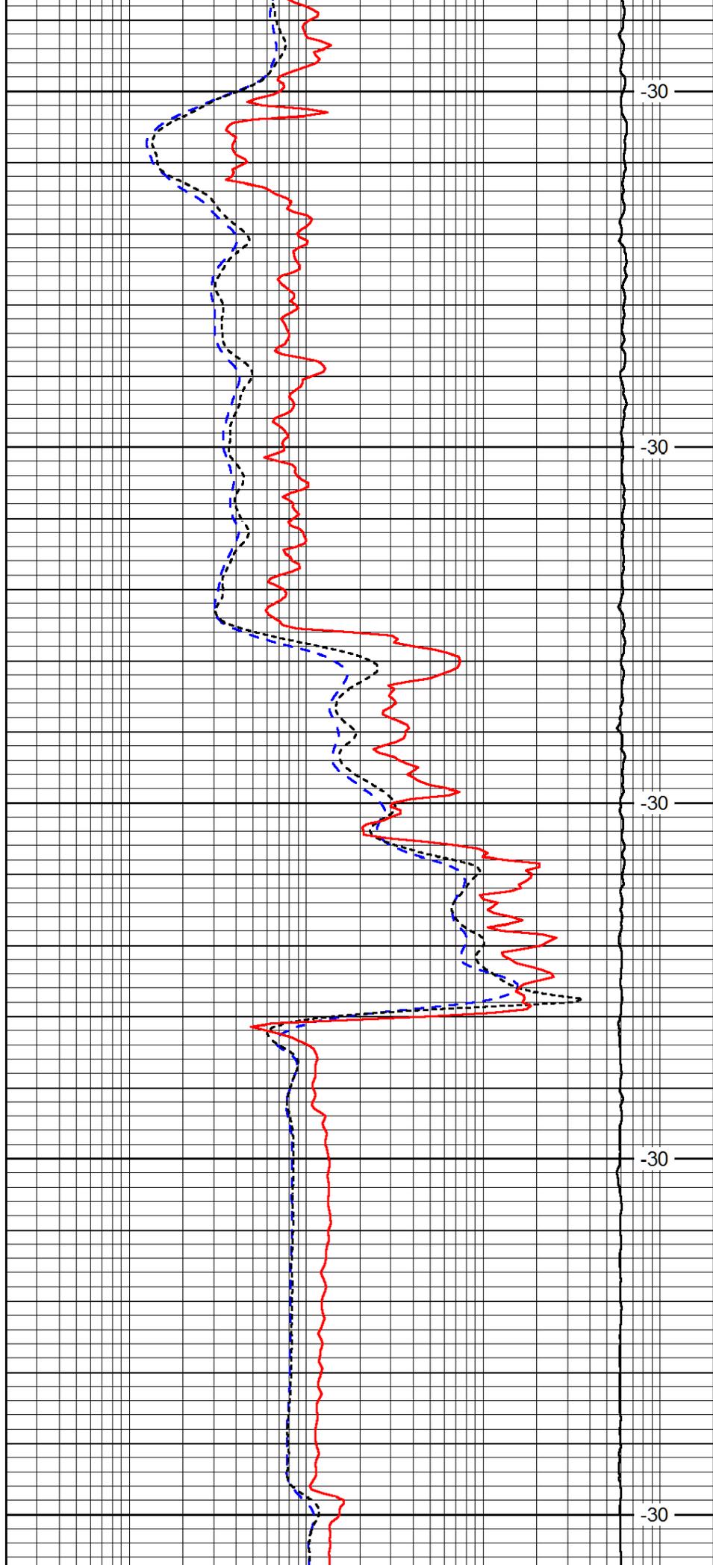
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2550

2600

2650

2700



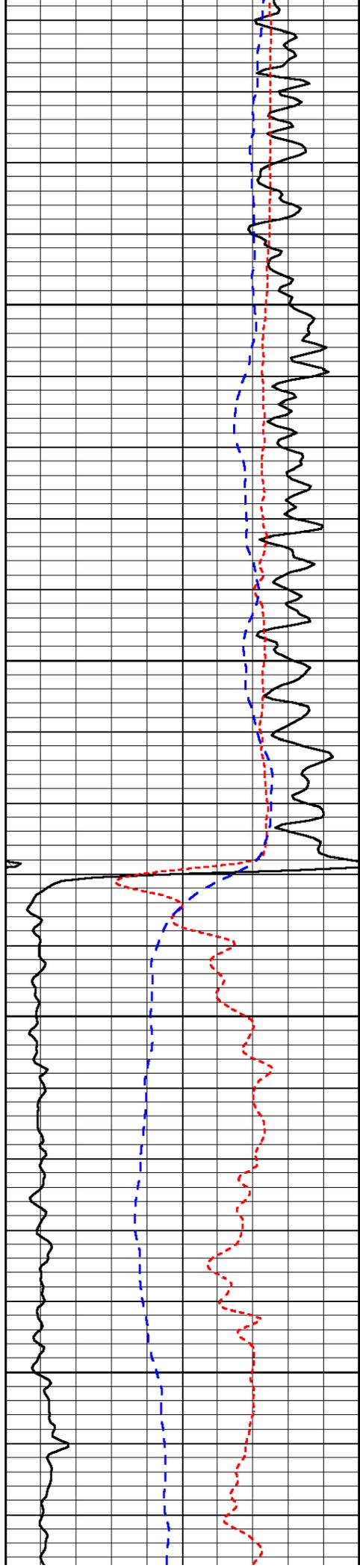
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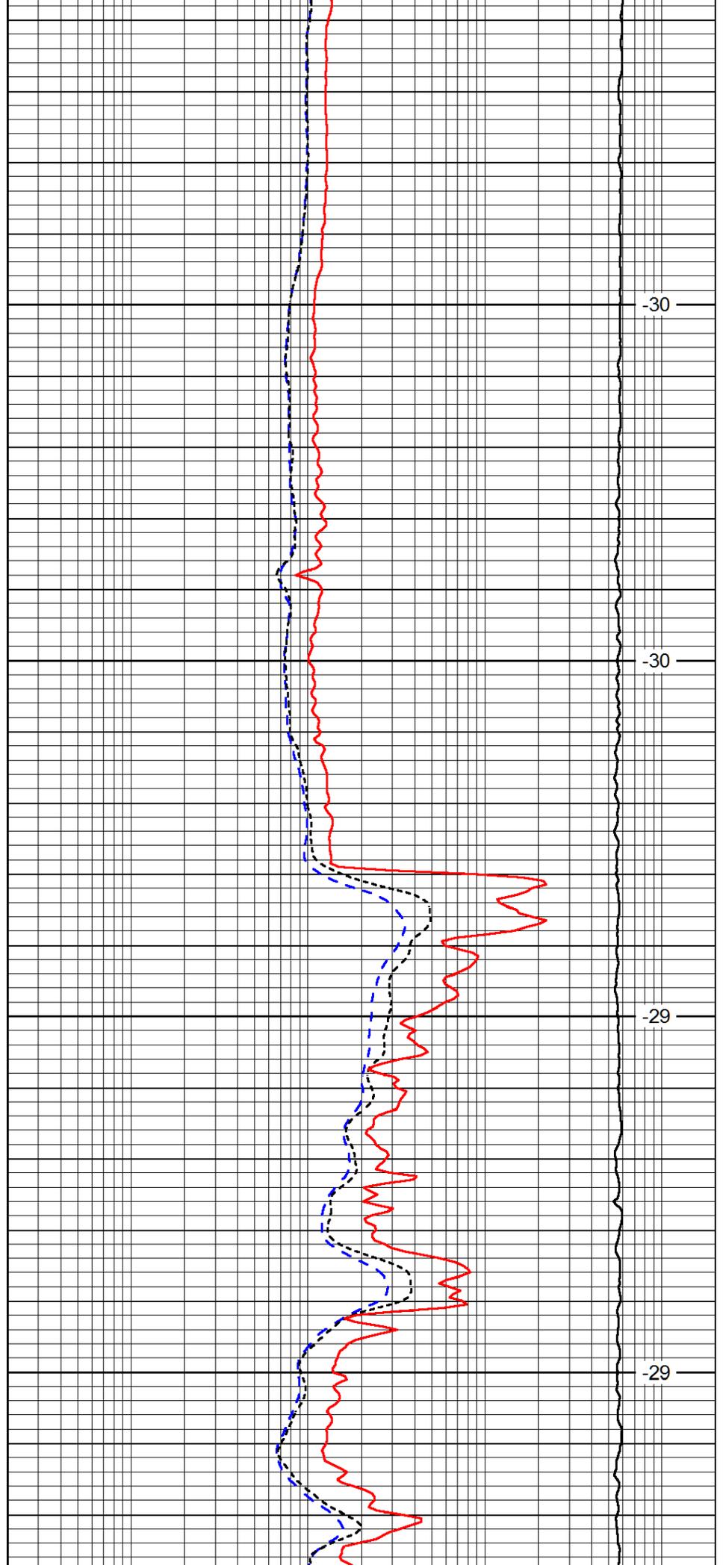


2750

2800

2850

2900

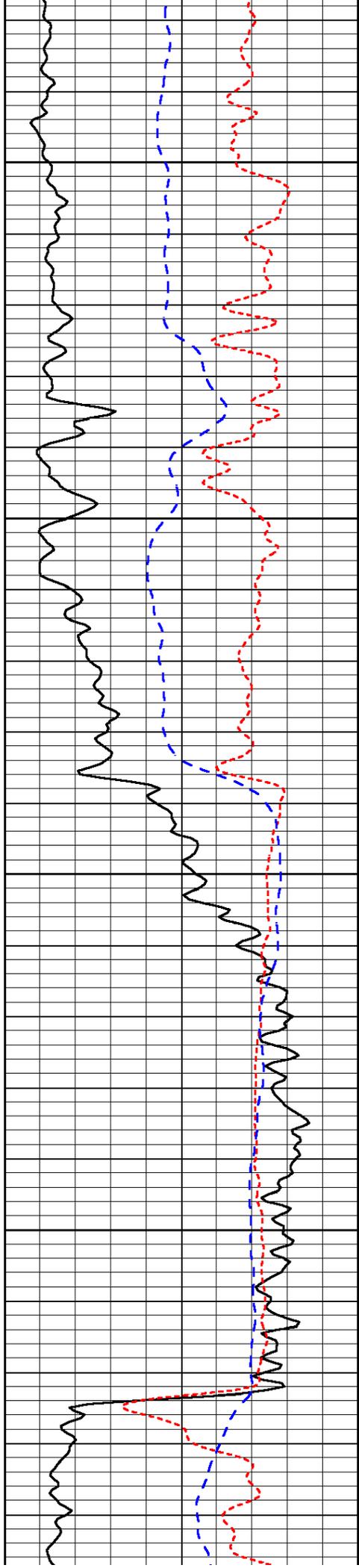


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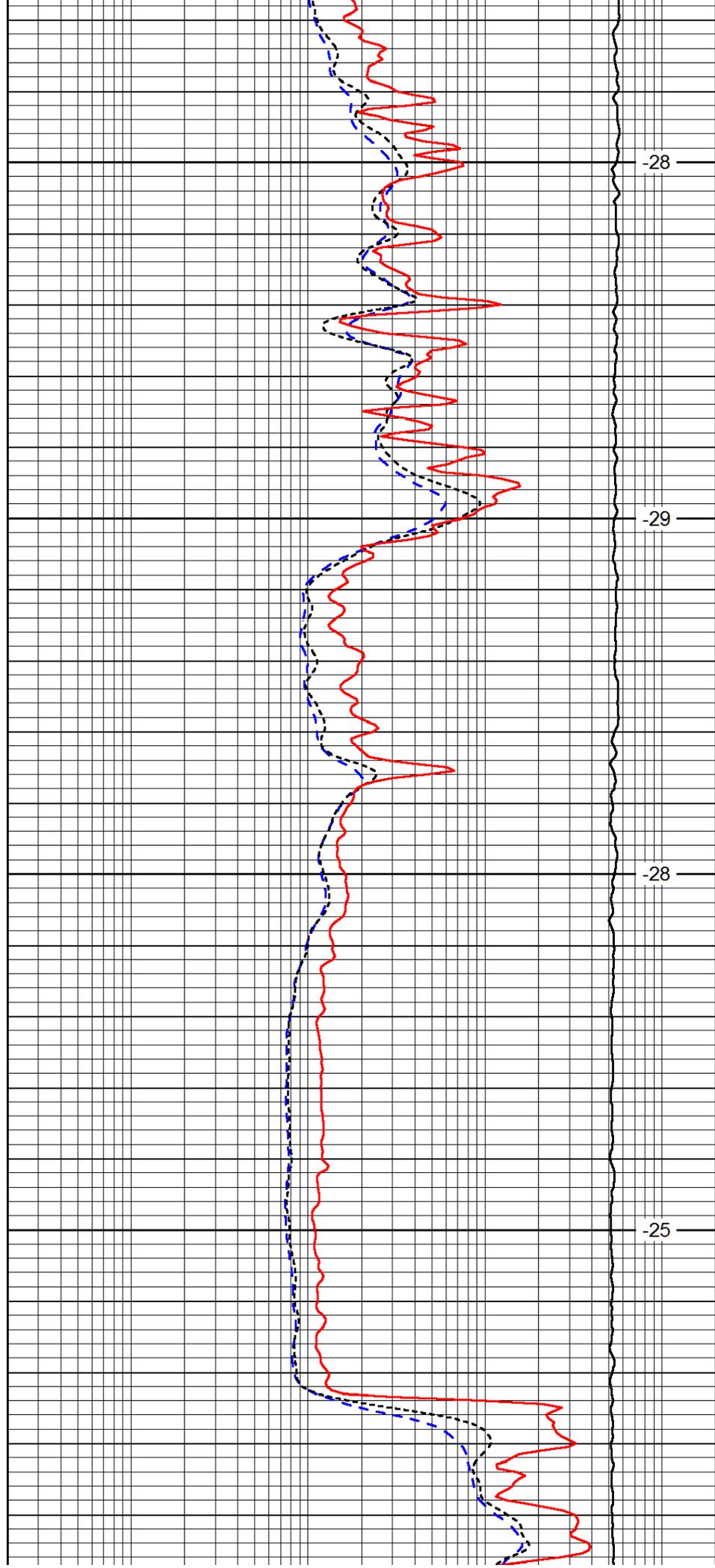


2950

3000

3050

3100

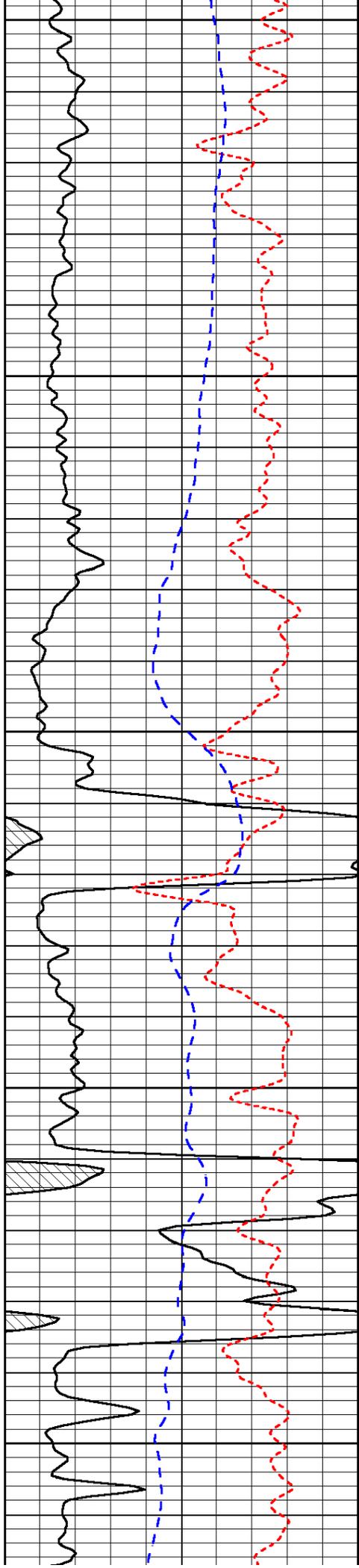


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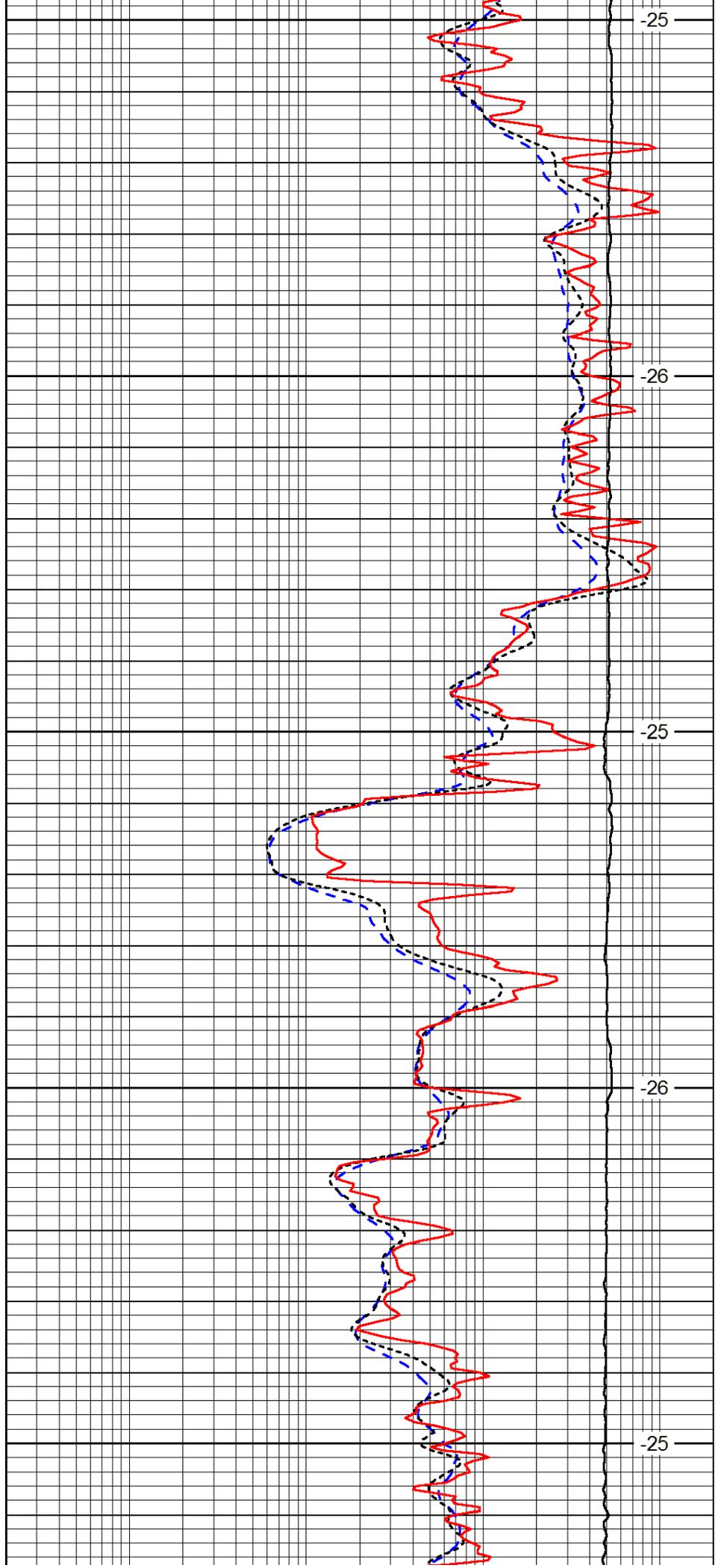
3150

3200

3250

3300

3350



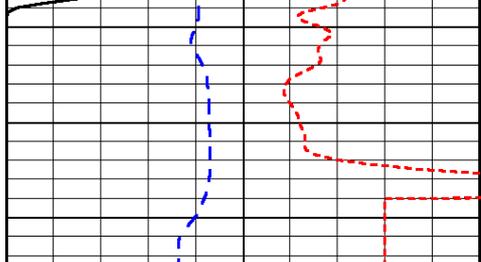
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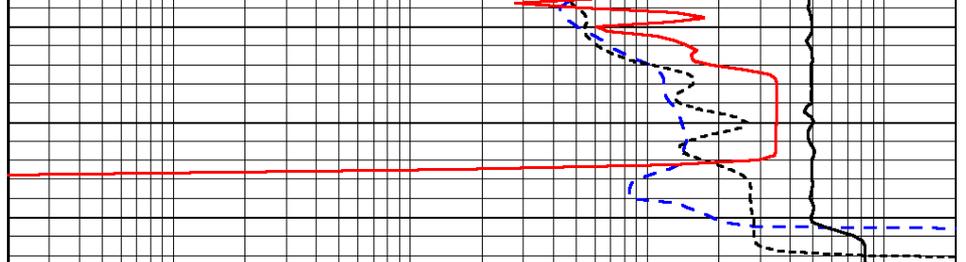
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LSPD
(ft/min)