



Dual Induction Log

Pioneer Energy Services

API No.		Company N-10 Exploration, LLC Well Medicine River Ranch 'B' #11 Field Landis County Barber State Kansas			
15-007-23933-00-00		Location 2980' FSL & 2210' FEL		Other Services CNL/CDL	
Sec: 15		Twp: 34S		Rge: 11W	
Permanent Datum	Ground Level	Elevation 1354		Elevation	
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum		K.B. 1364 D.F. 1354 G.L. 1354	
Drilling Measured From	Kelly Bushing				
Date	10/11/2012				
Run Number	One				
Depth Driller	5040				
Depth Logger	5041				
Bottom Logged Interval	5040				
Top Log Interval	250				
Casing Driller	8.625 @ 268				
Casing Logger	266				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	9000				
Density / Viscosity	8.8	51			
pH / Fluid Loss	9.5	12.4			
Source of Sample	Flowline				
Rm @ Meas. Temp	0.35 @ 65				
Rmf @ Meas. Temp	0.26 @ 65				
Rmc @ Meas. Temp	0.47 @ 65				
Source of Rmf / Rmc	Charts				
Rm @ BHT	0.18 @ 128				
Operating Rig Time	4 Hours				
Max Rec. Temp. F	128				
Equipment Number	91				
Location	Hays				
Recorded By	D. Schmidt				
Witnessed By	Tim Pierce				

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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

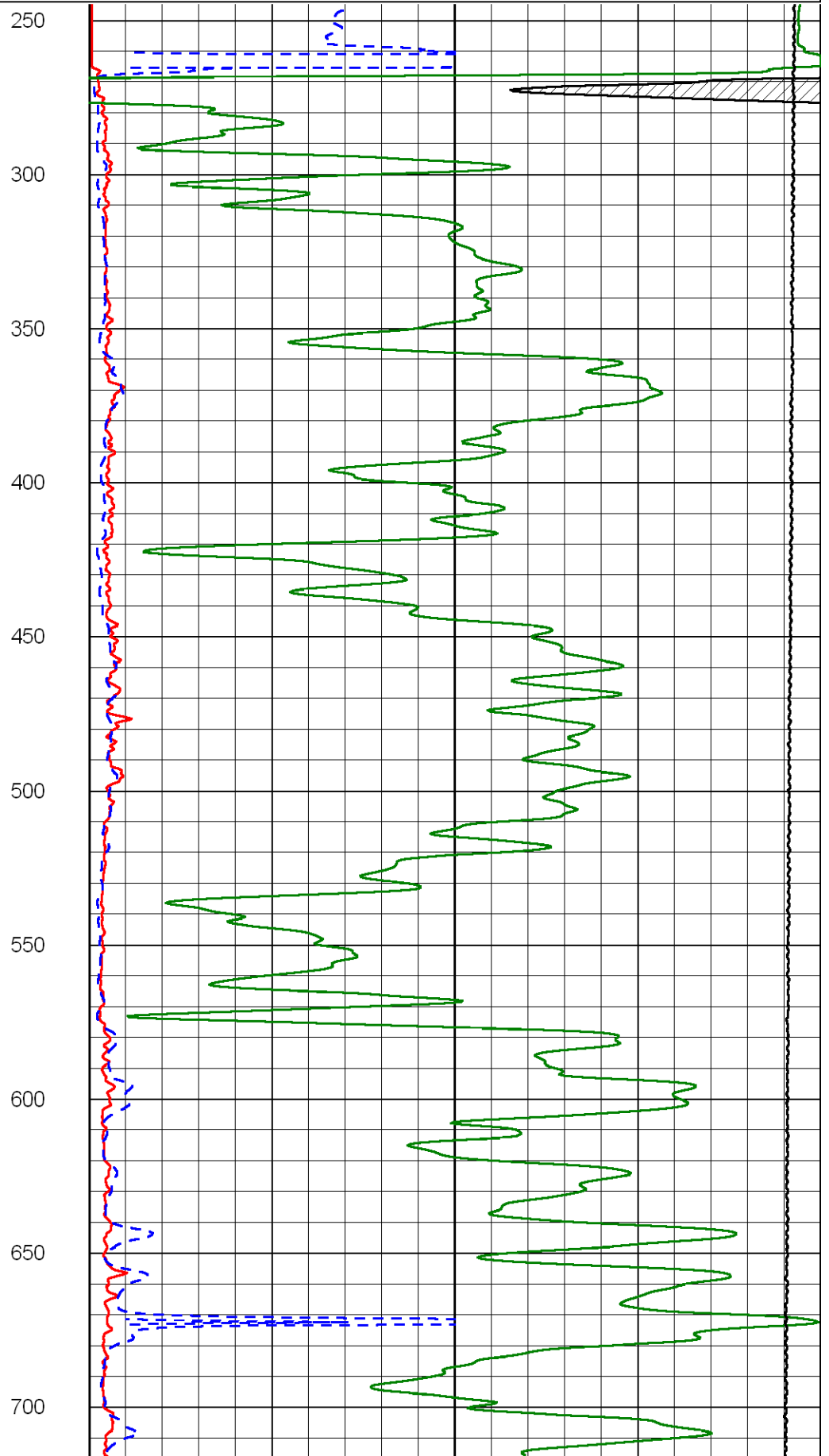
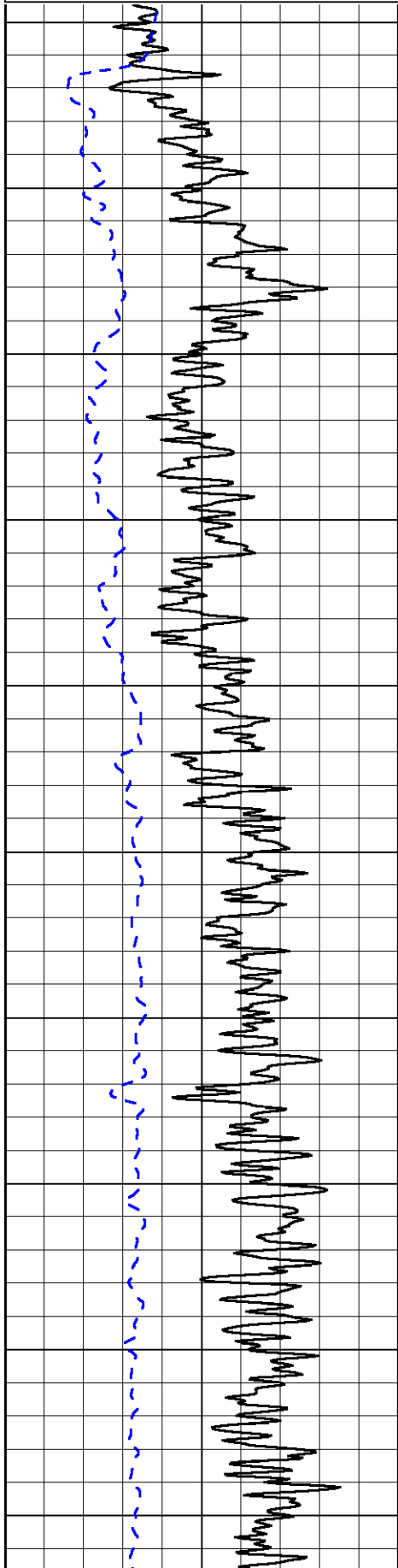
Thank you for using Log-Tech, Inc.
(785) 625-3858
Medicine Lodge,
South to Gerlane, 7 East to Bethel, 2 South to Scott Canyon,
about 1 West to cattle guard, continue West past tank battery, take far left lease road at fork,
1/2 South and West, North into

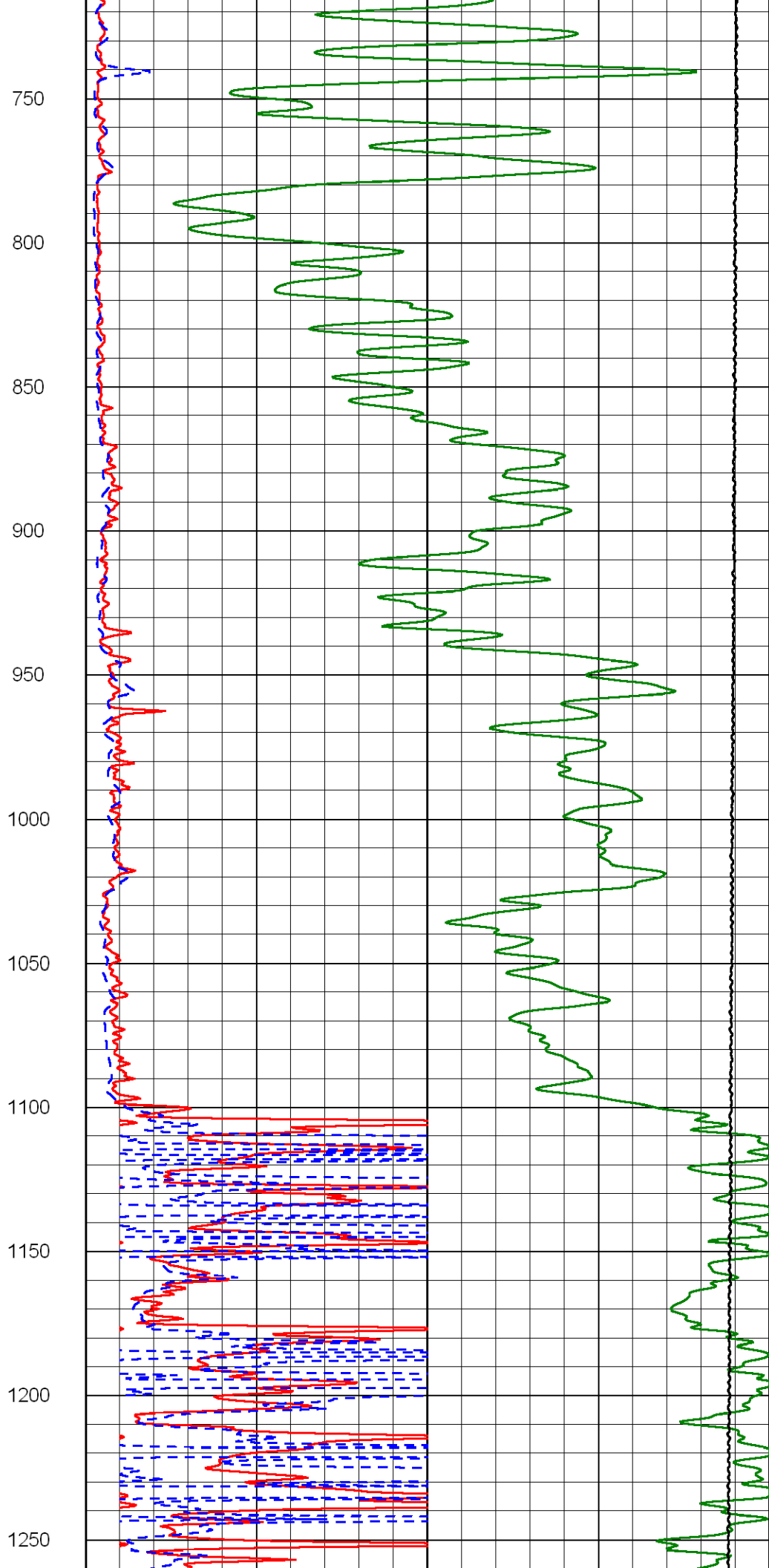
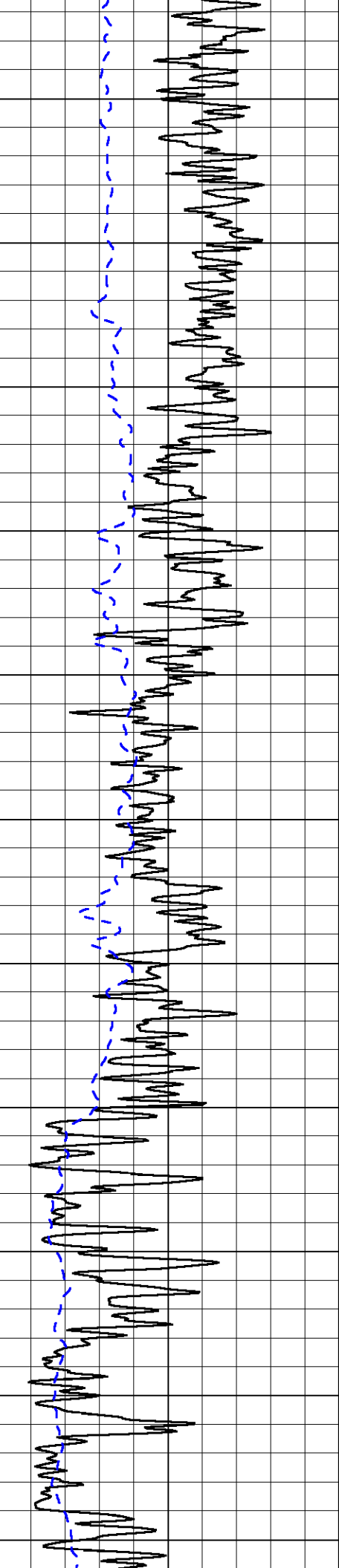
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Dataset Pathname: dil/n10stack
Presentation Format: dil2in
Dataset Creation: Fri Oct 12 01:18:49 2012
Charted by: Depth in Feet scaled 1:600

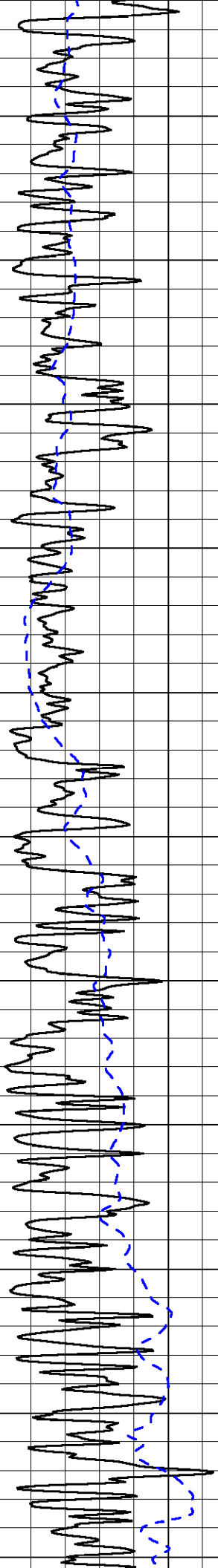
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-200	SP	0

0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

50	Shallow Resistivity	500
50	Deep Resistivity	500







1300

1350

1400

1450

1500

1550

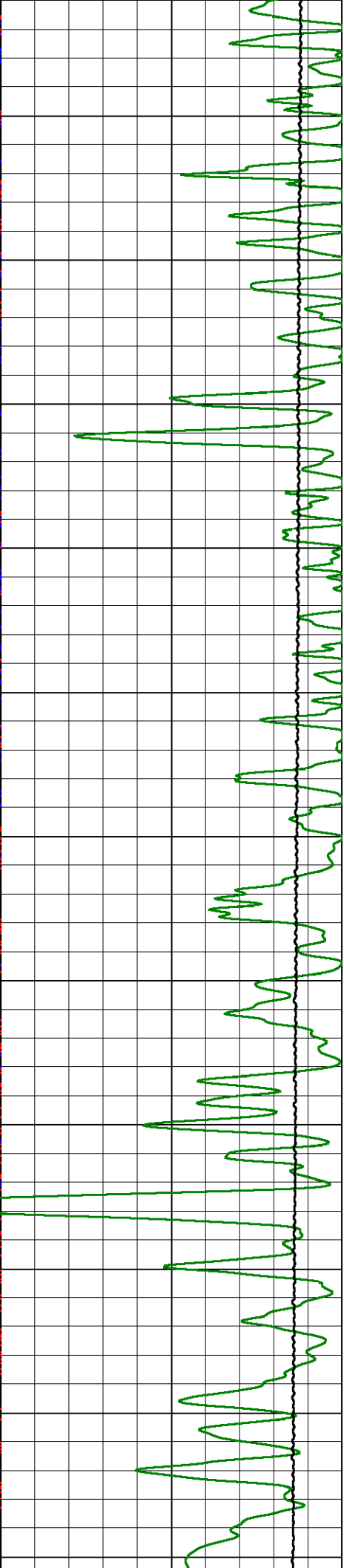
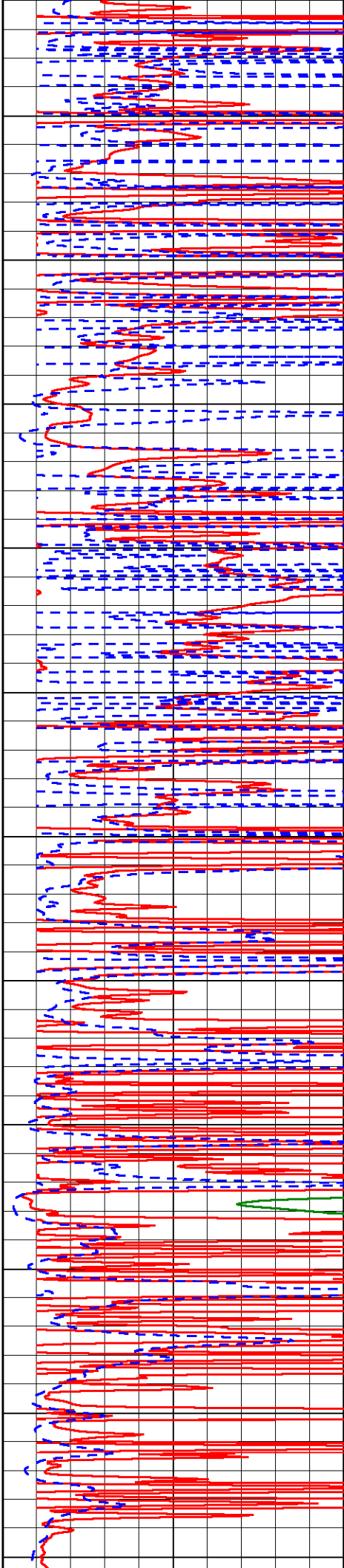
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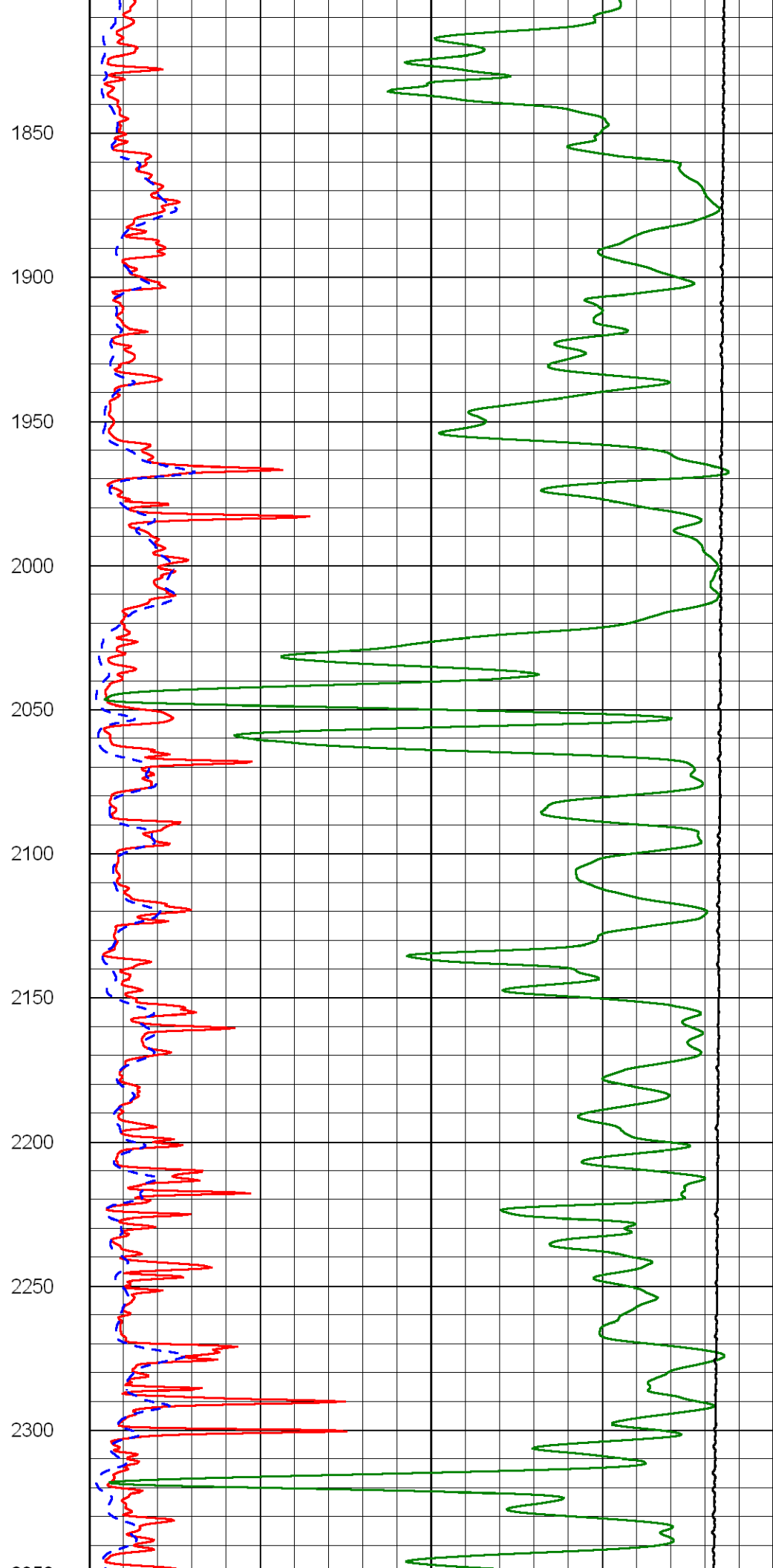
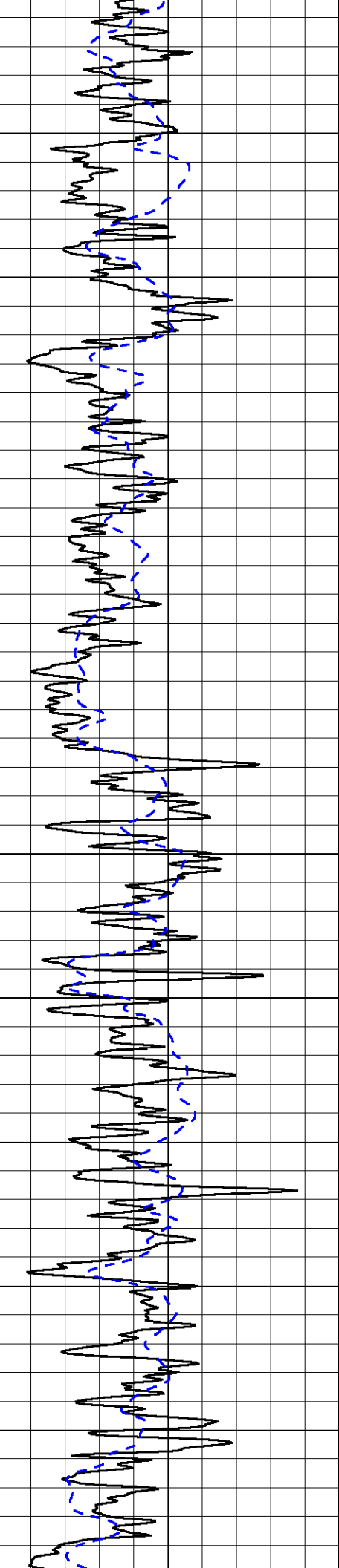
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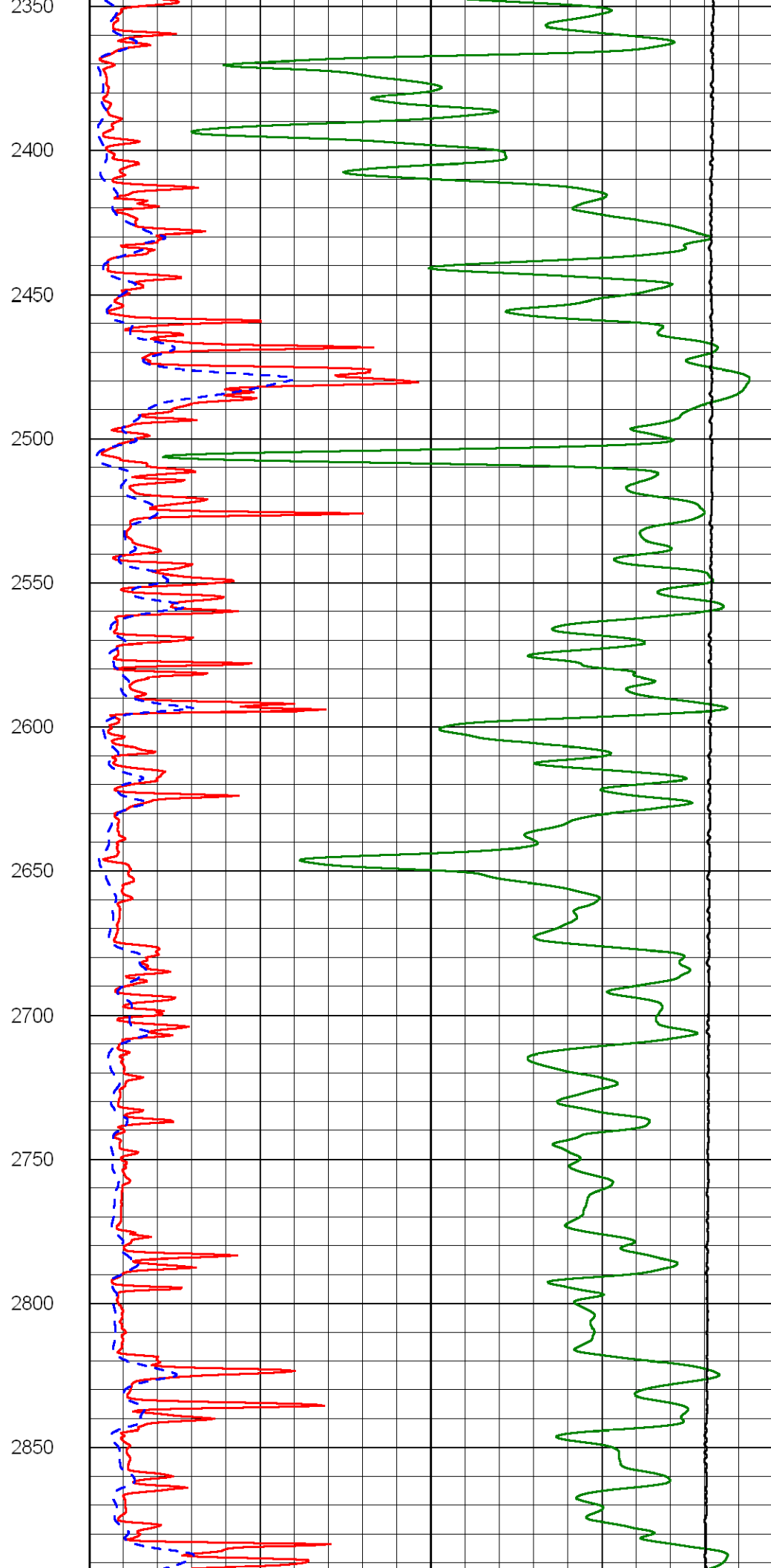
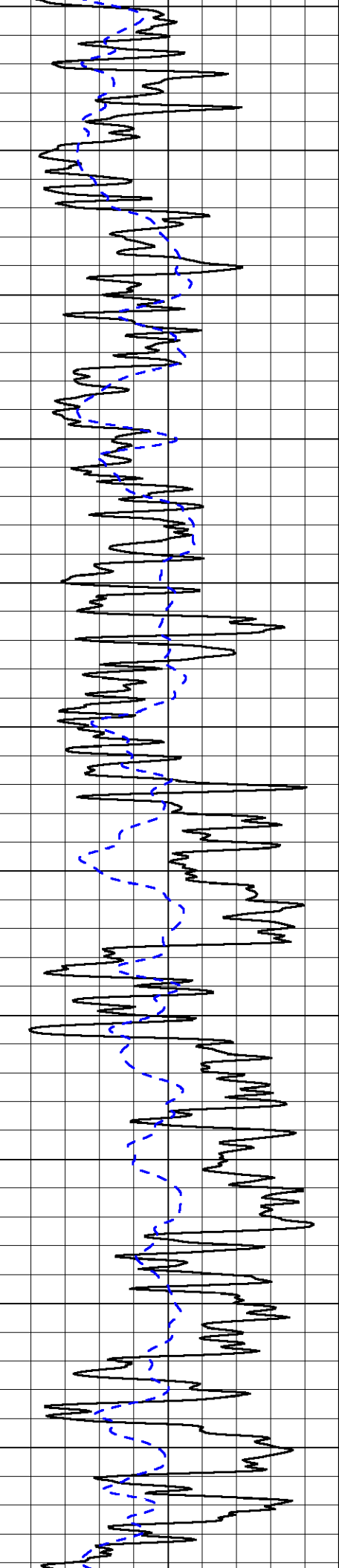
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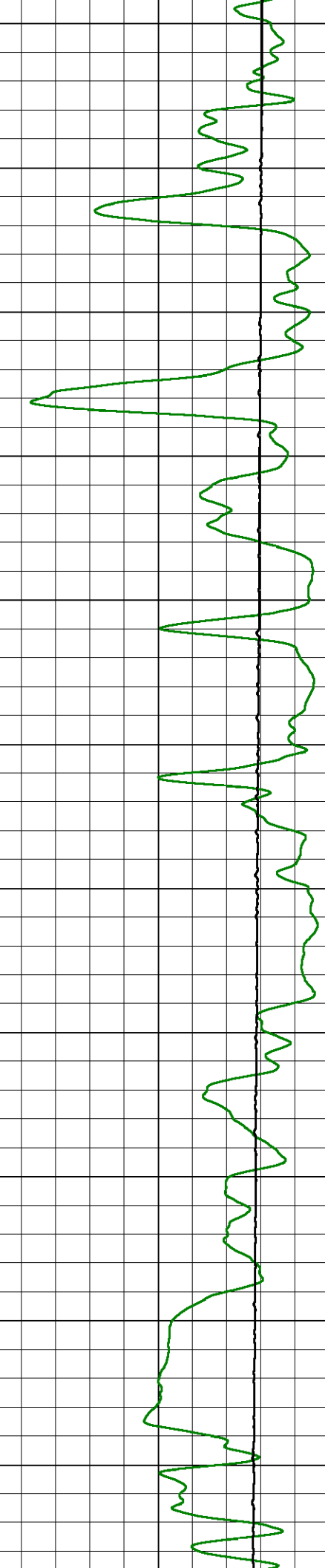
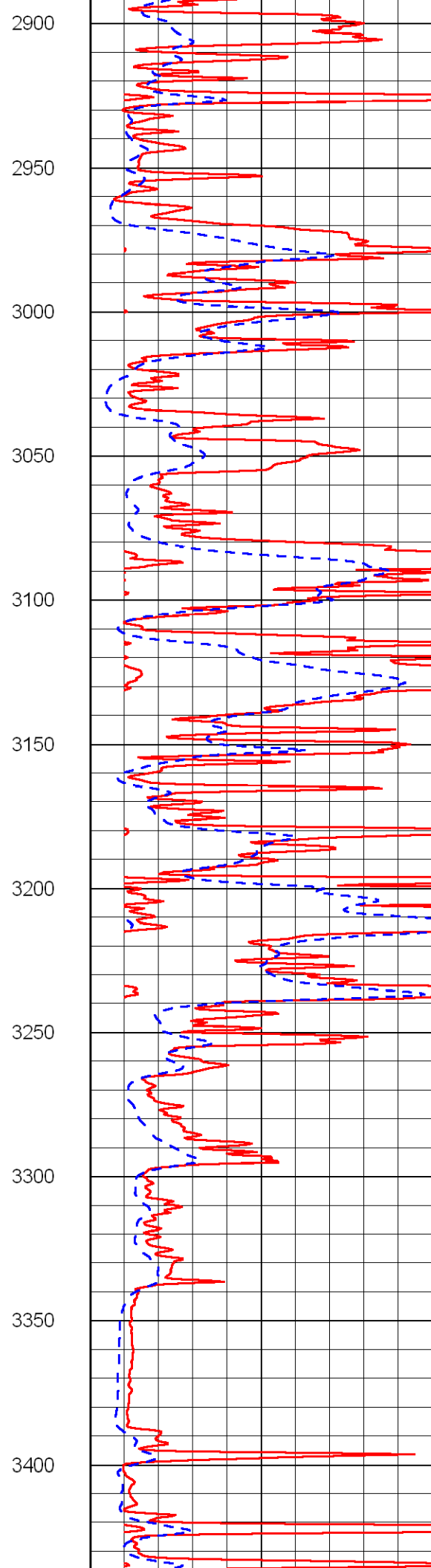
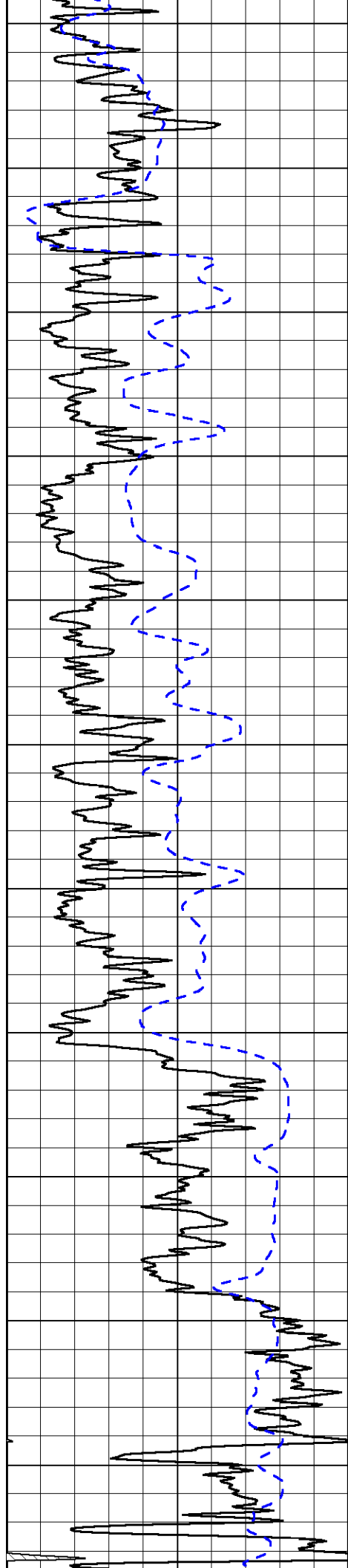
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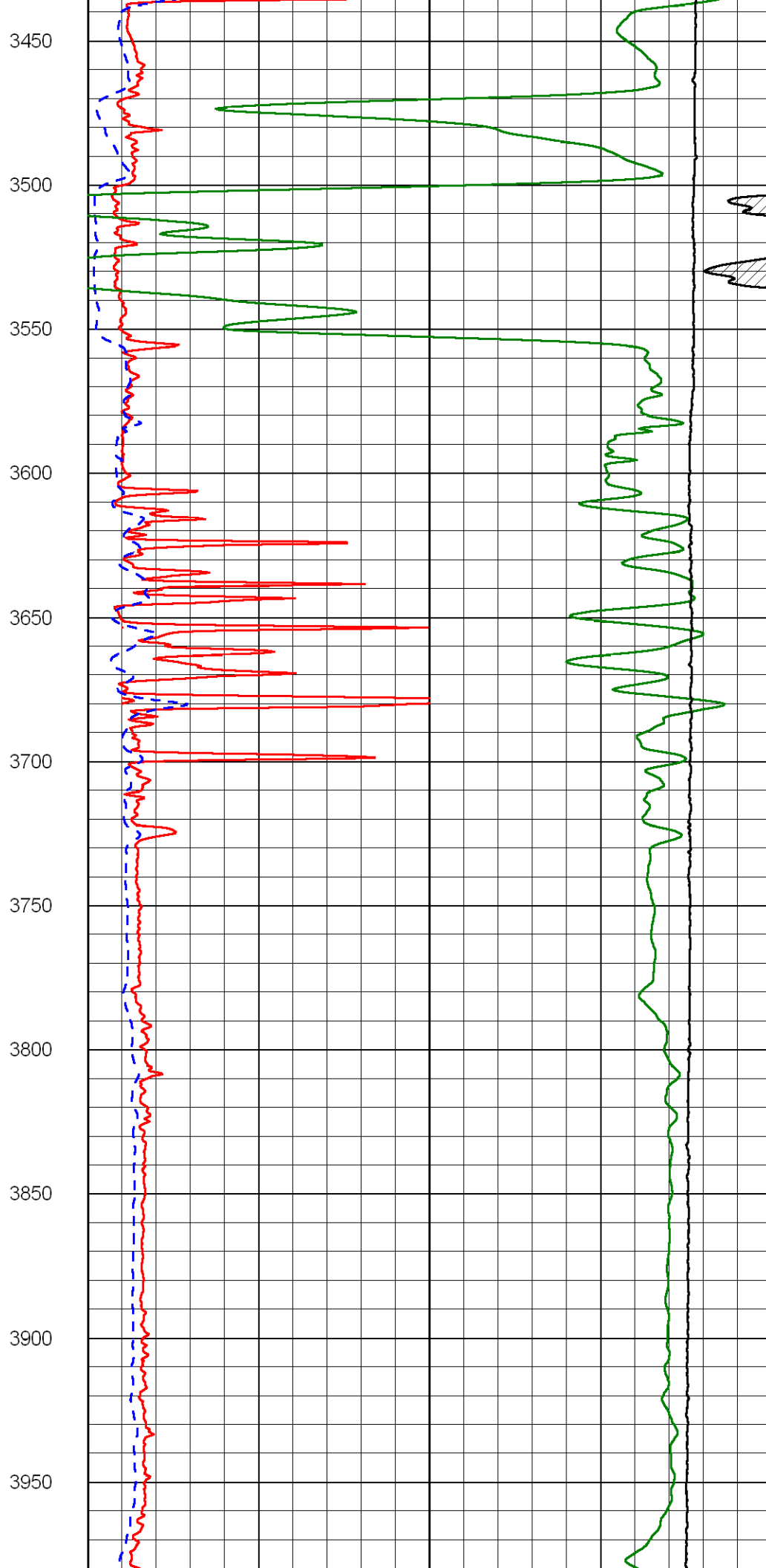
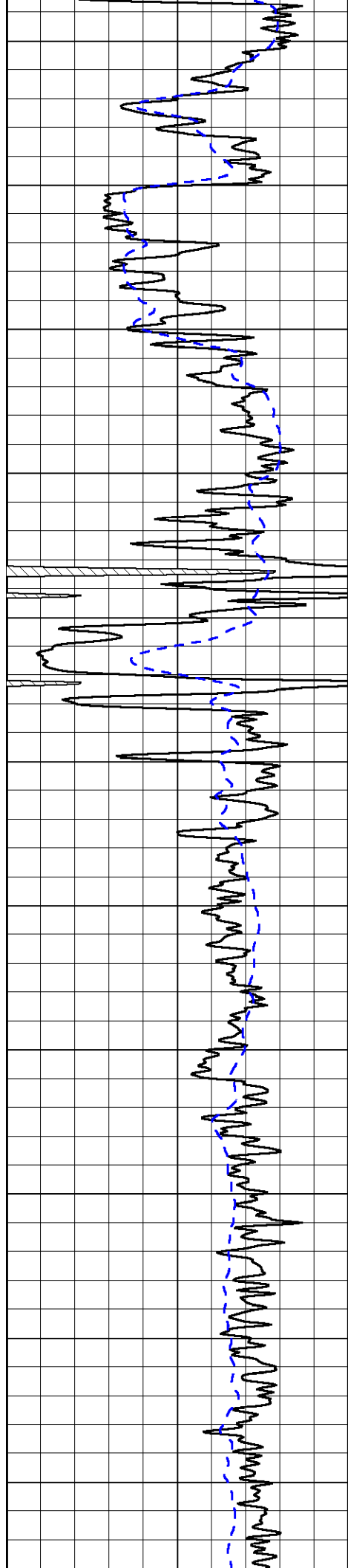
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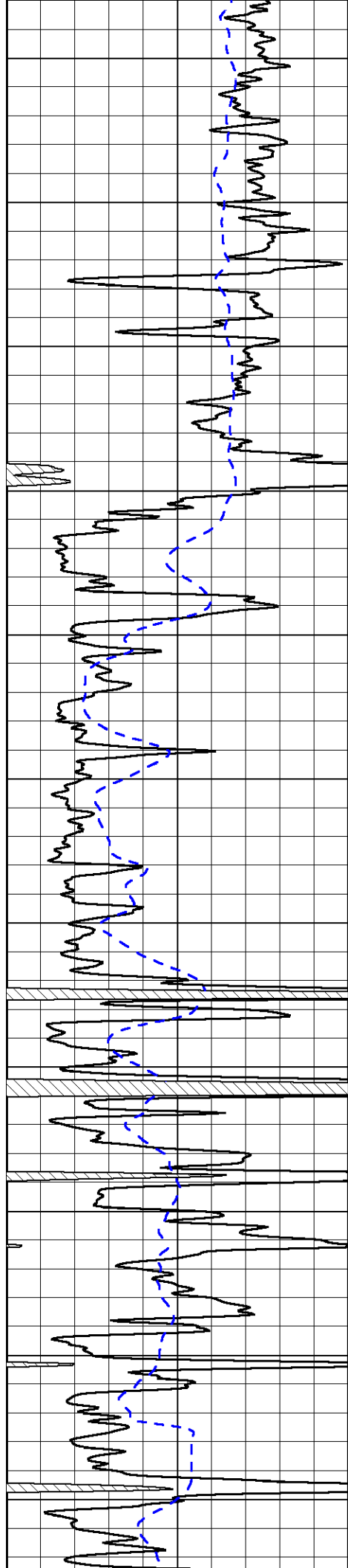












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4100

4150

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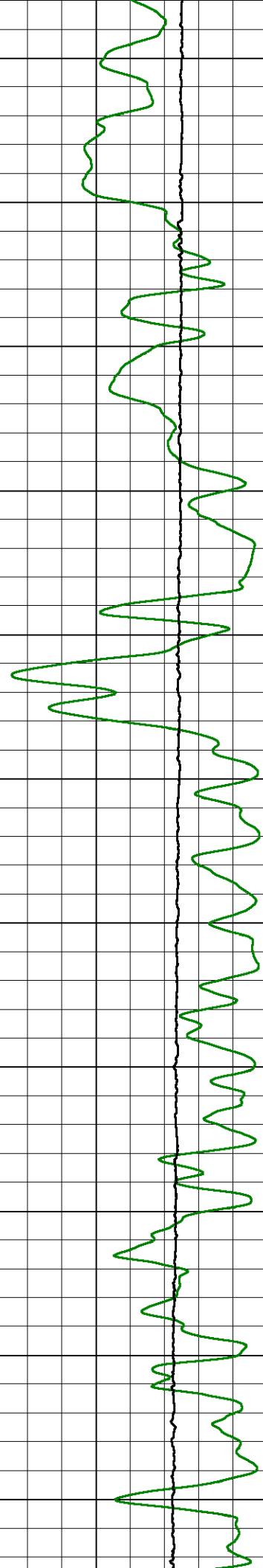
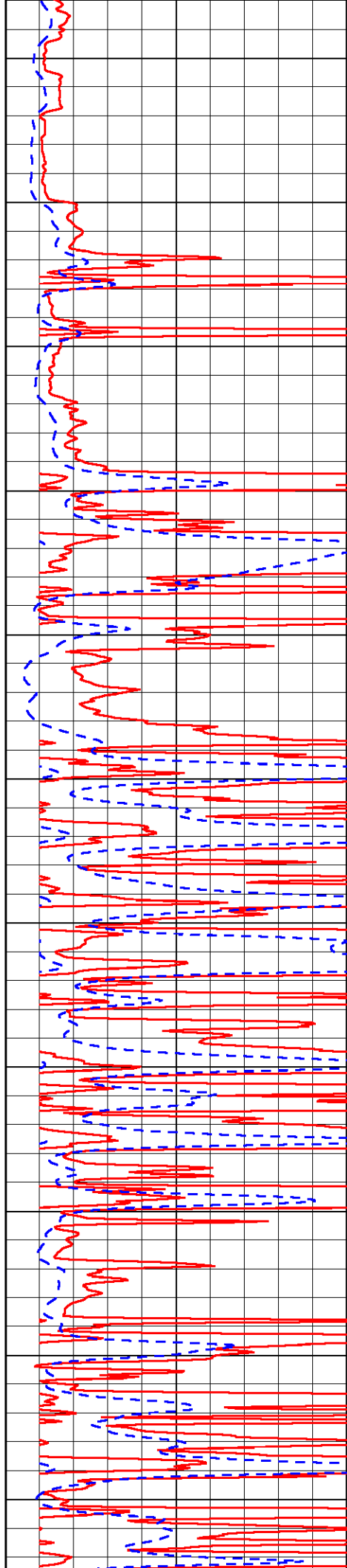
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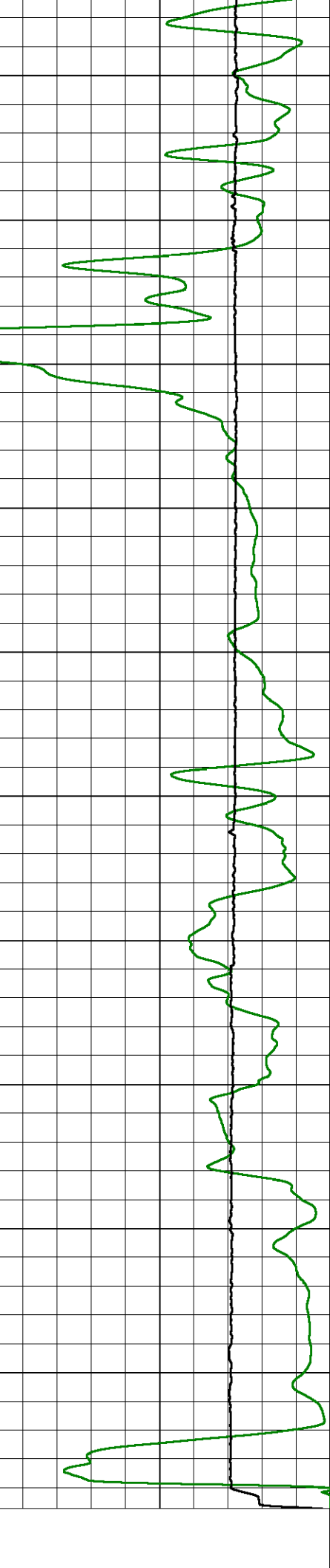
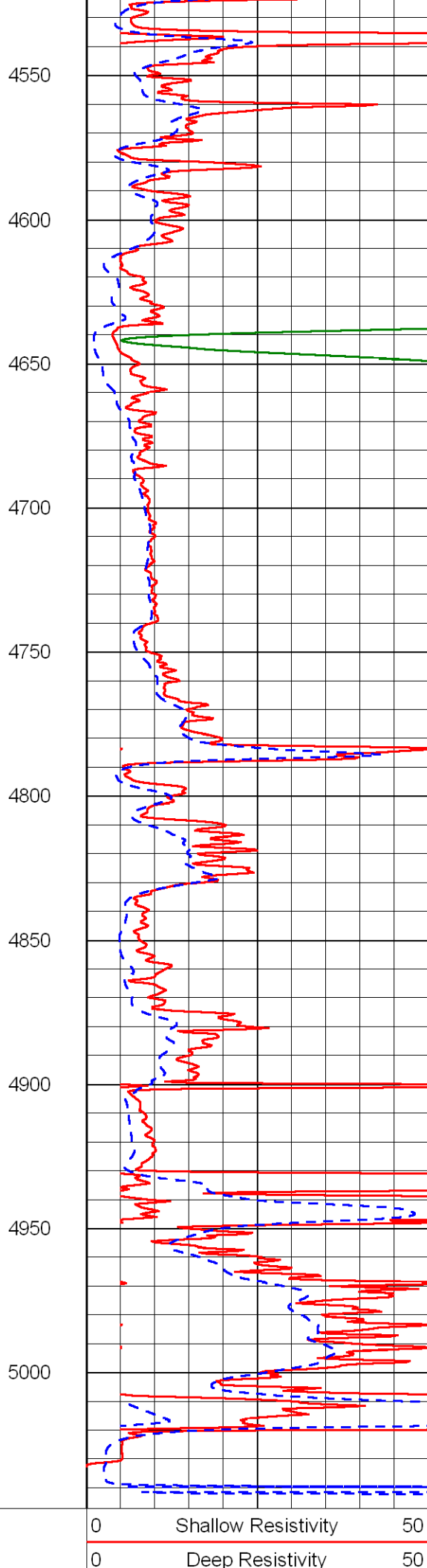
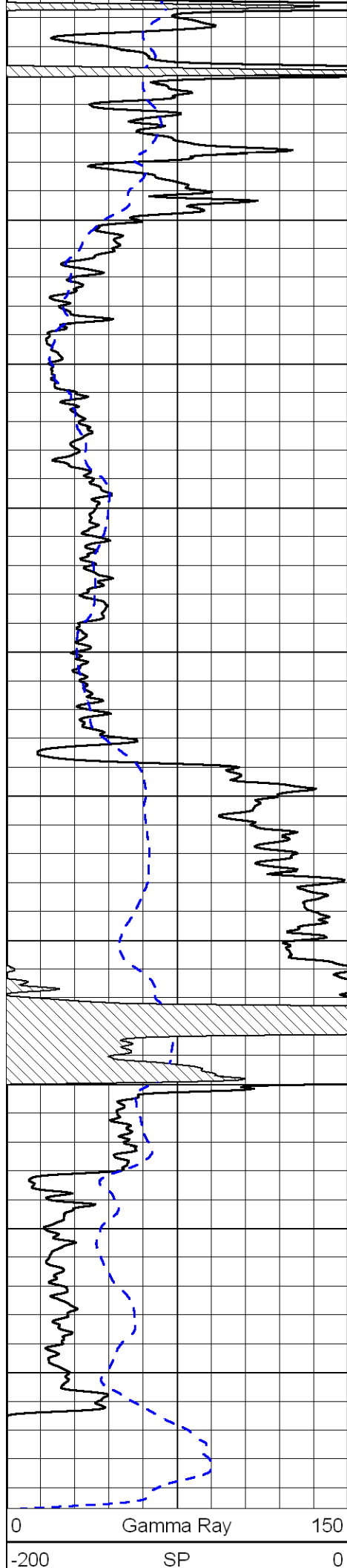
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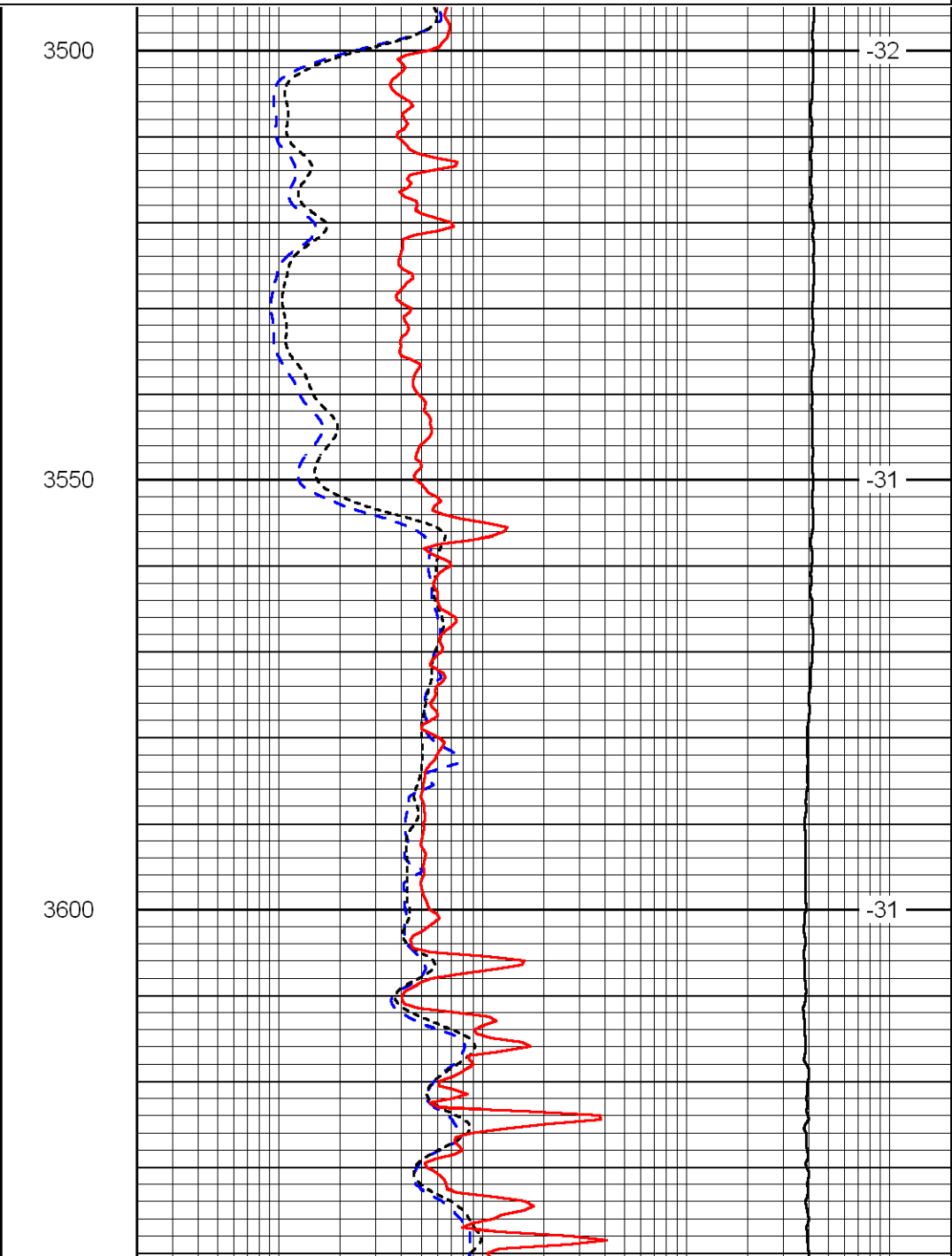
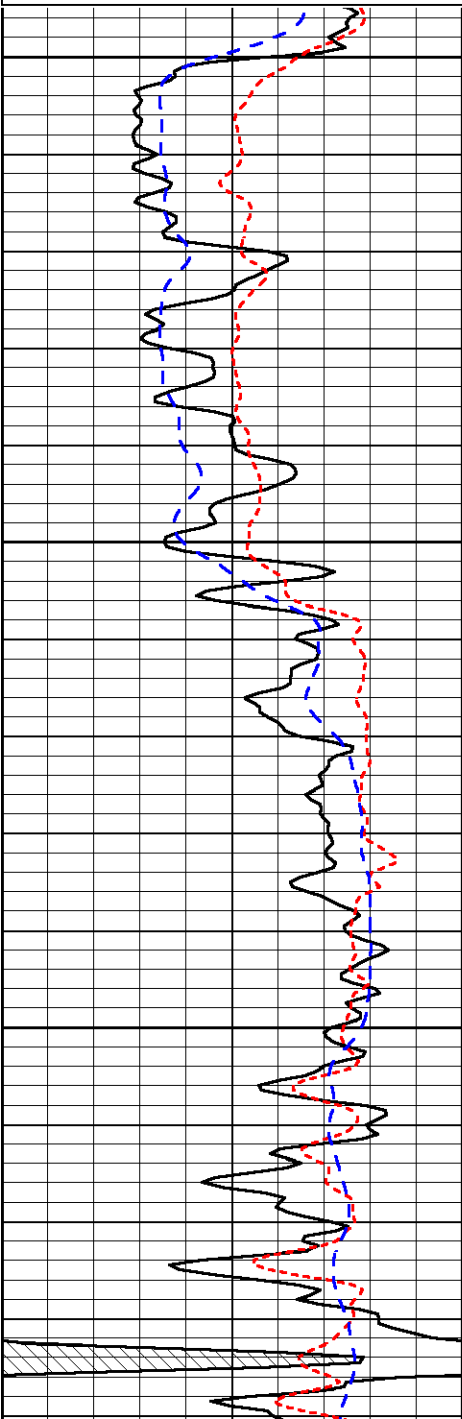


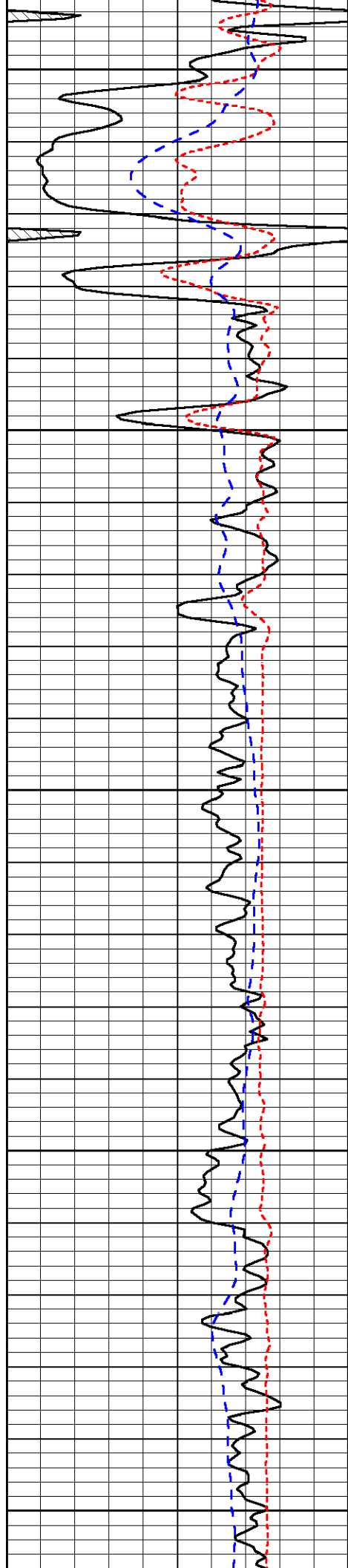


1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File:	n10_101112hd.db
Dataset Pathname:	dil/n10stack
Presentation Format:	dil
Dataset Creation:	Fri Oct 12 01:18:49 2012
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





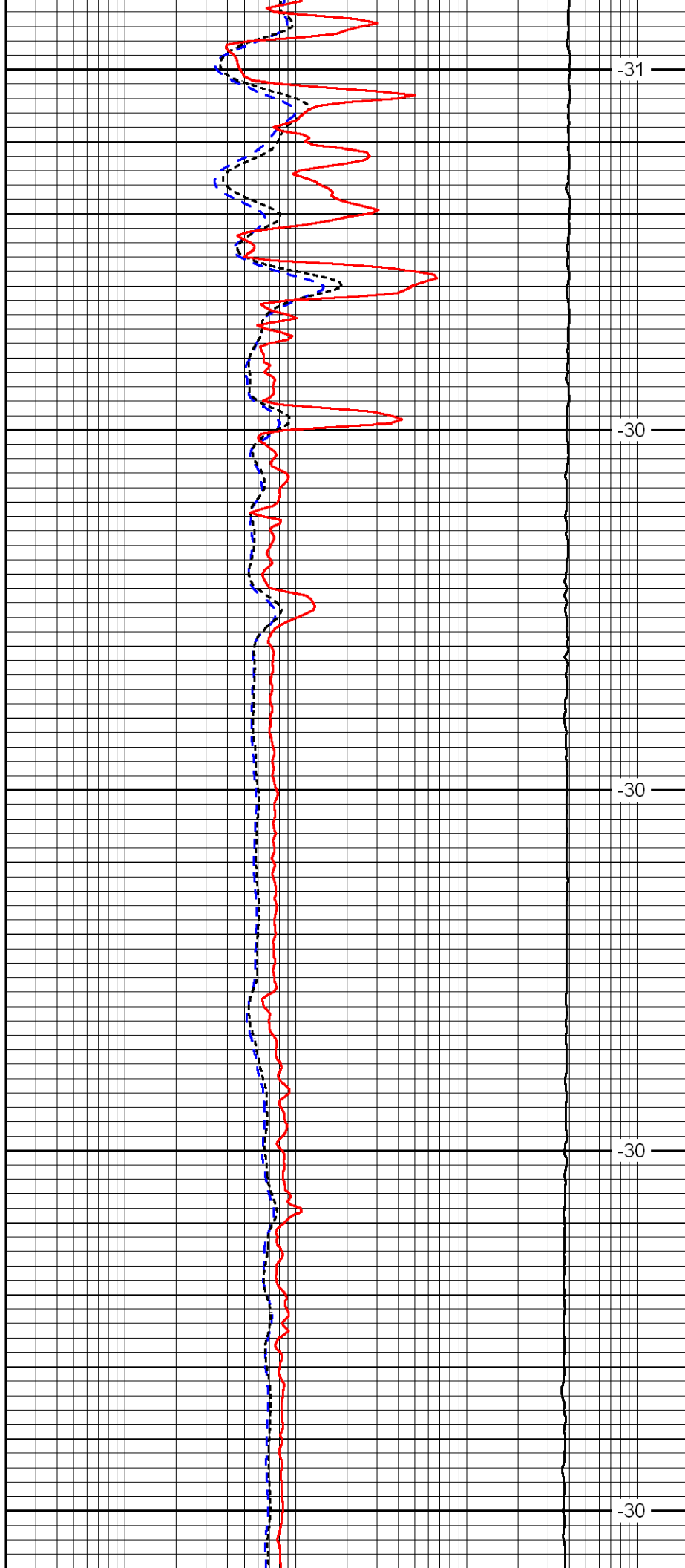
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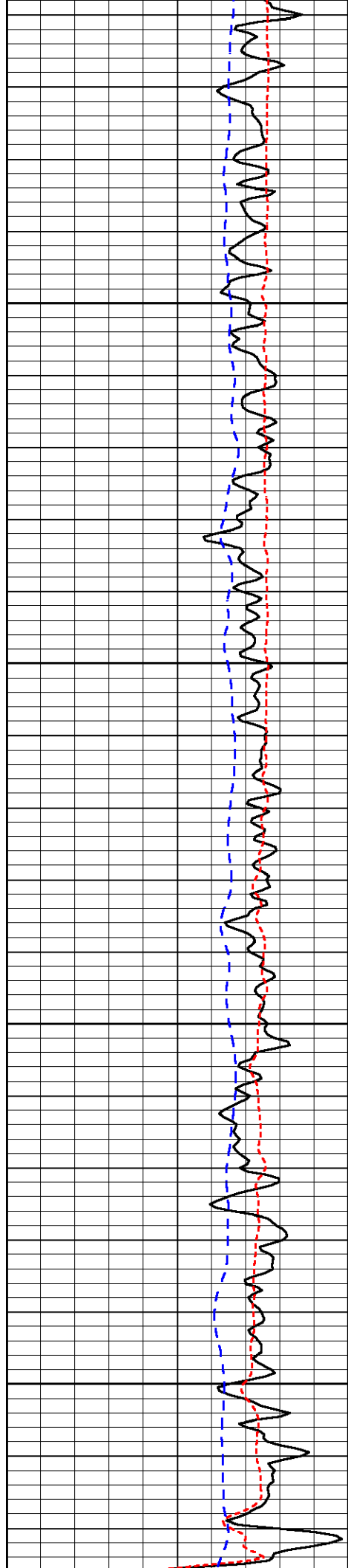
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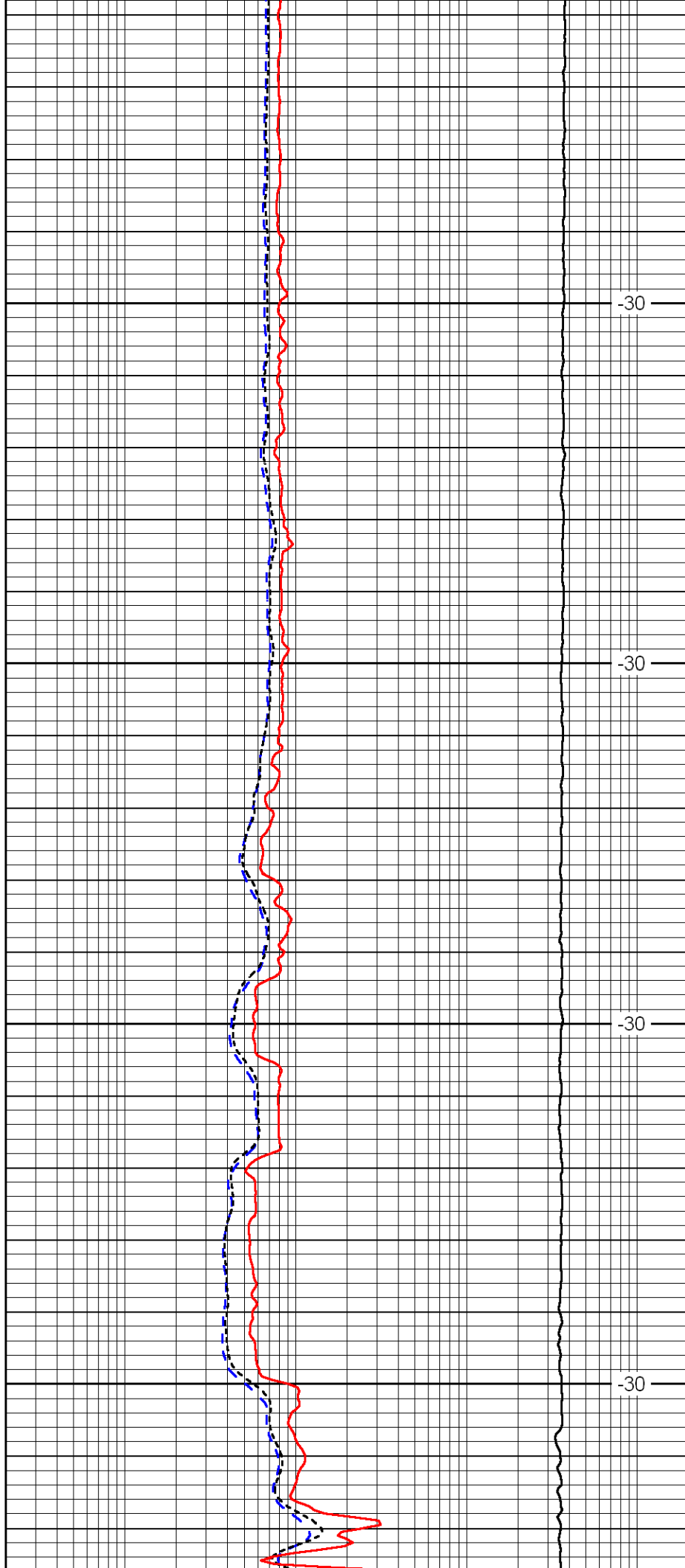


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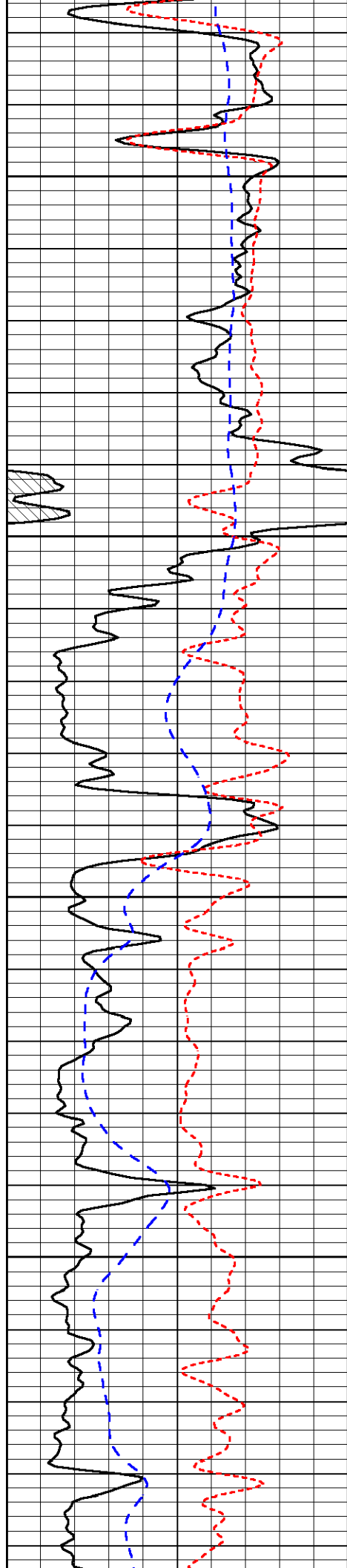


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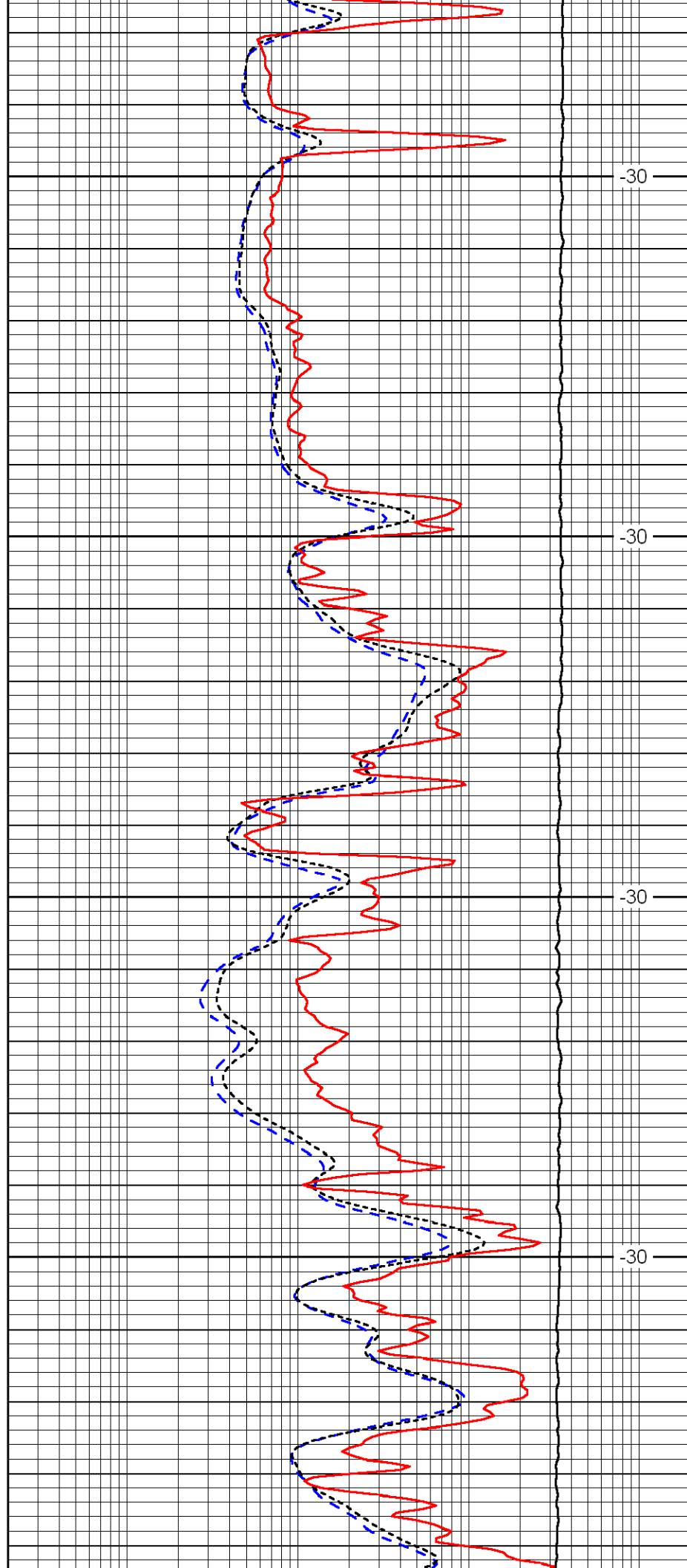


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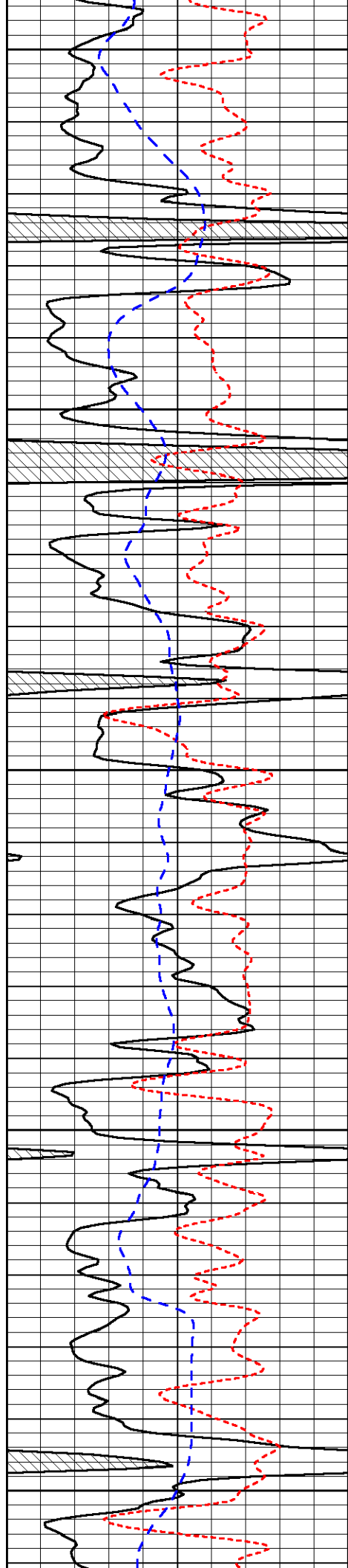


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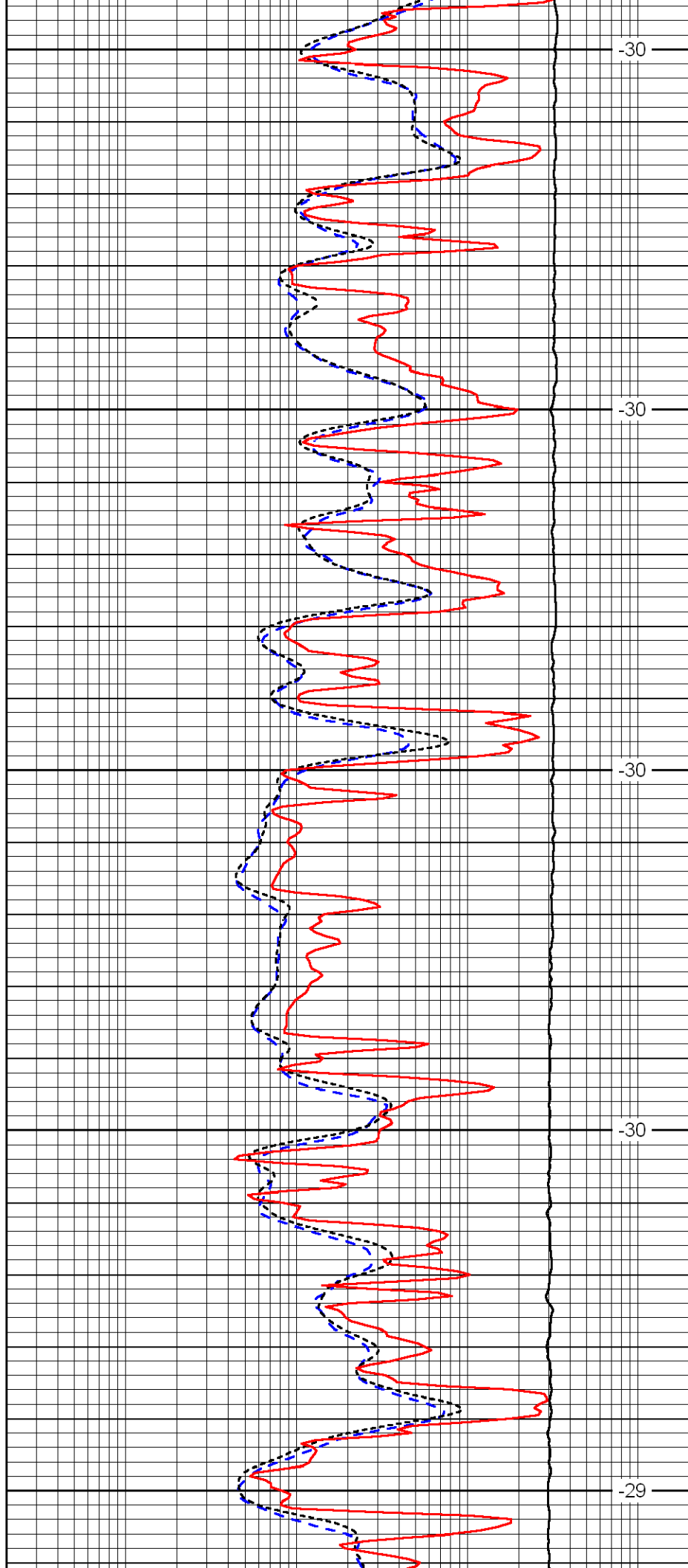
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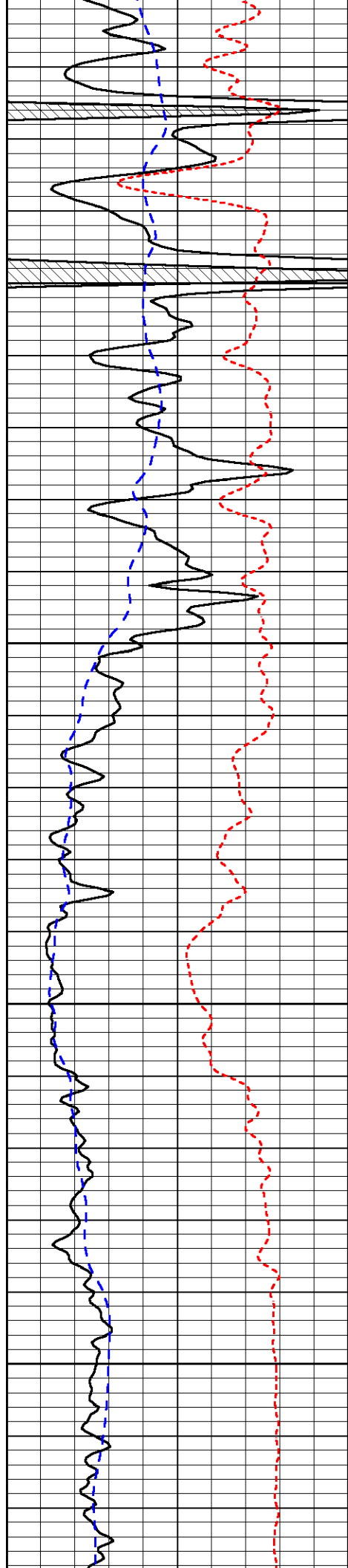
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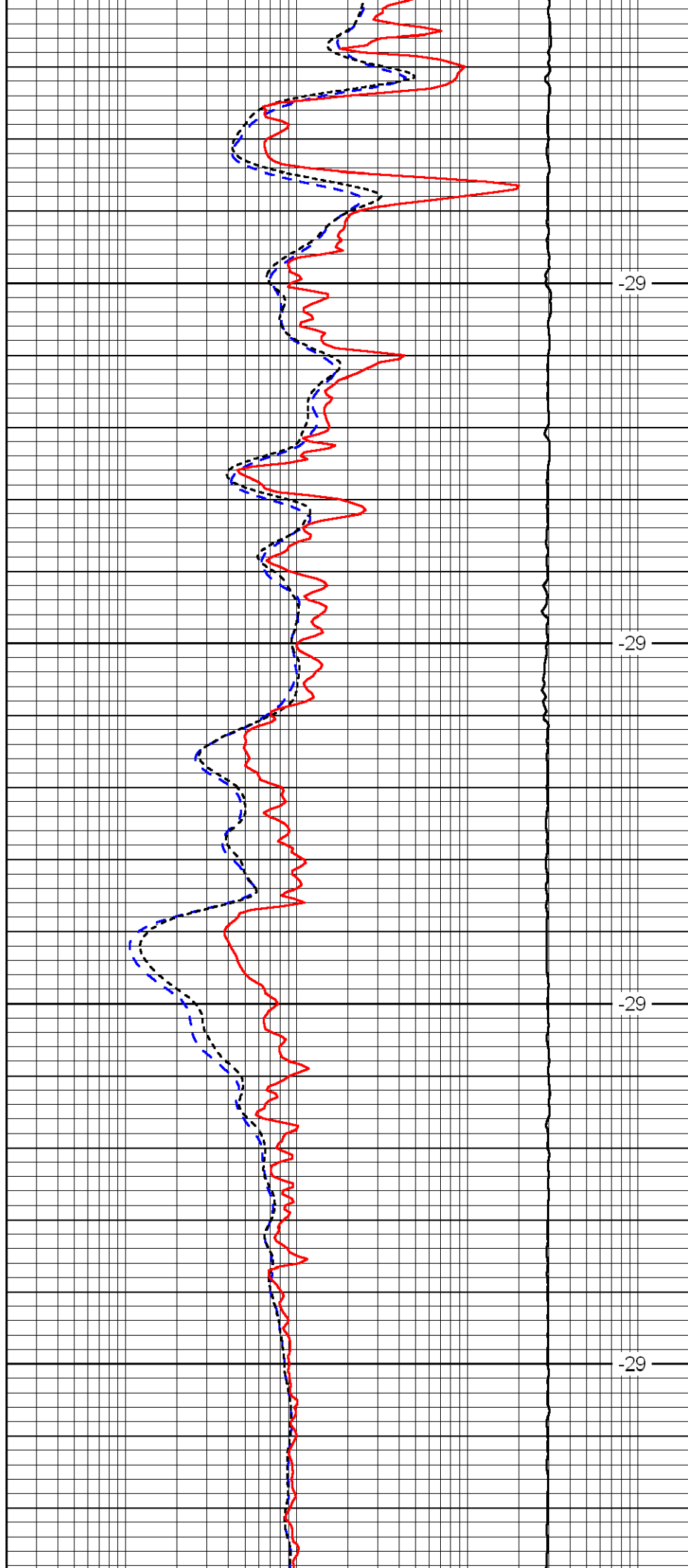


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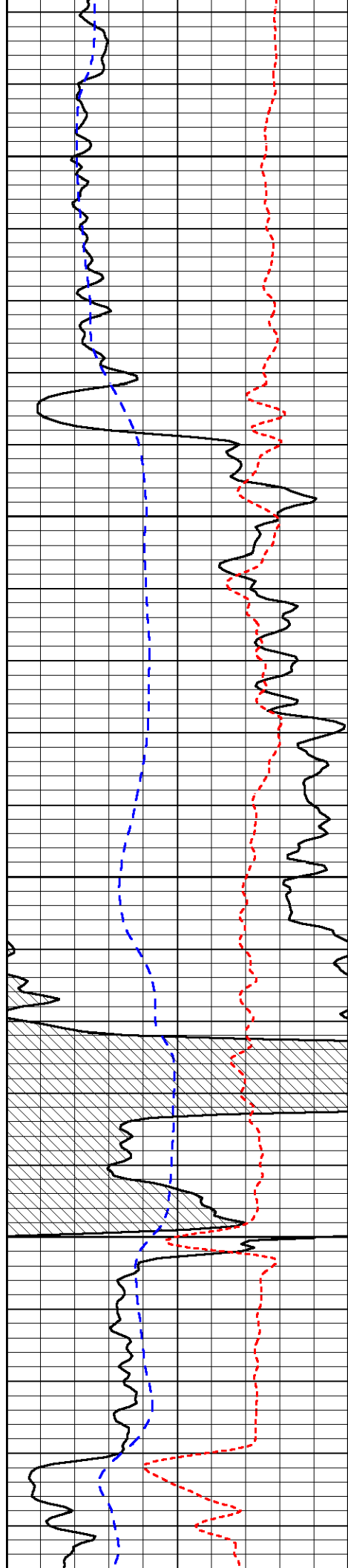


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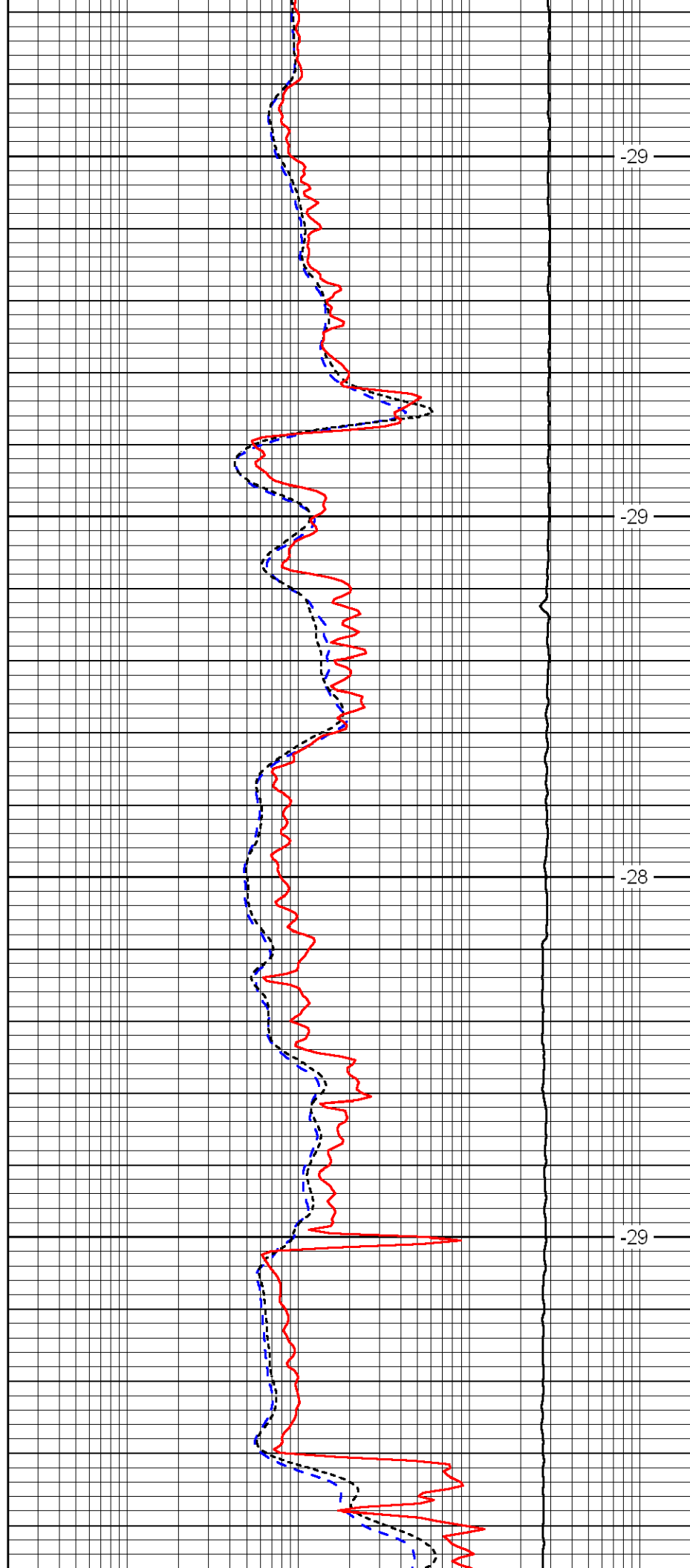


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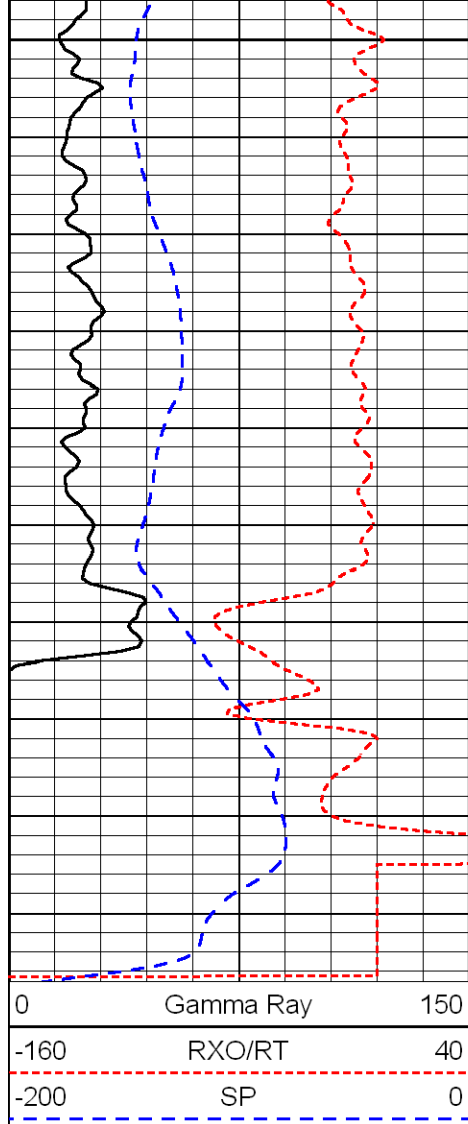


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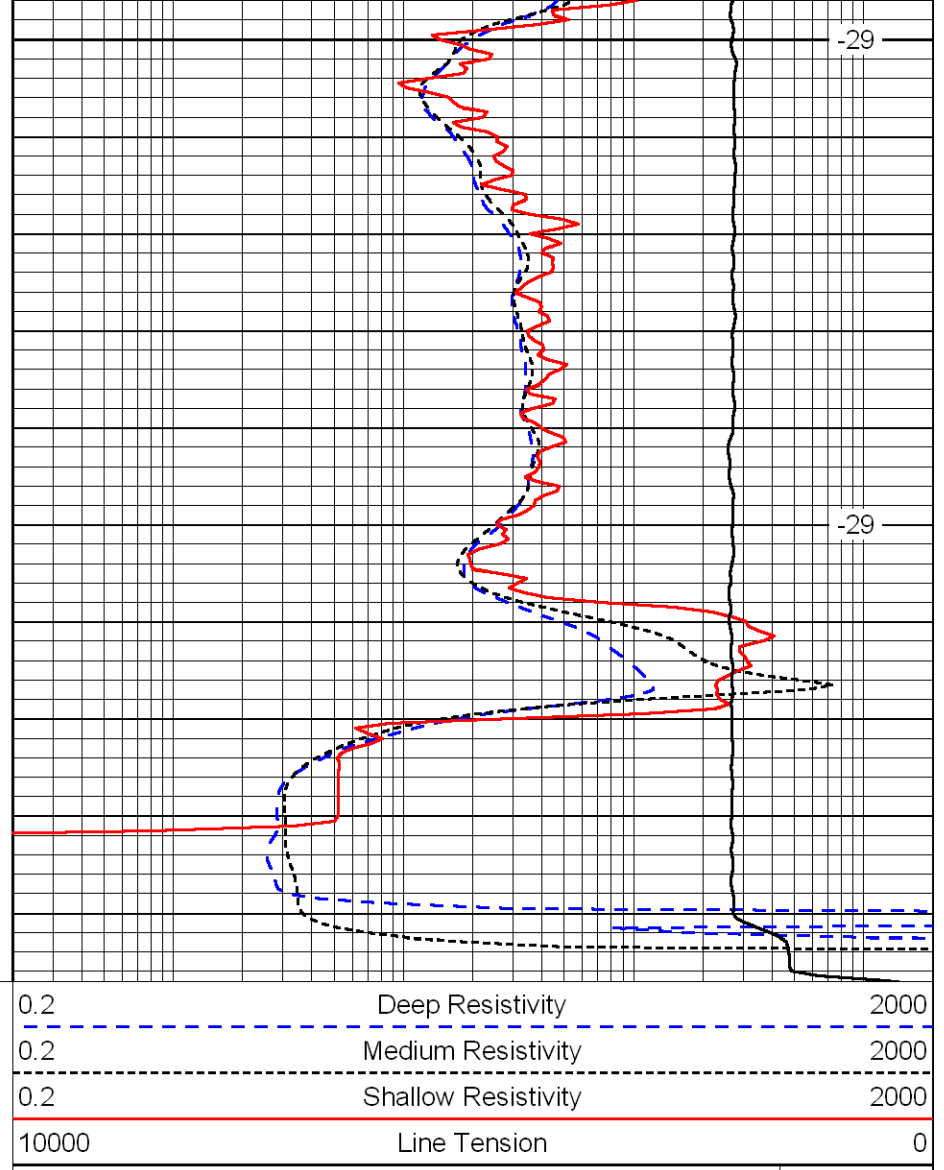
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4950

5000



4950

5000

LSPD