



Pioneer Energy Services

Dual Induction Log

API No.	15-101-22,402-00-00	
Company	Larson Engineering, Inc.	
Well	Thomas Paris No. 1 - 12	
Field	Hineman NW	
County	Lane	State
Location	2048' FSL & 2439' FEL	
Sec:	12	Twp: 19 S Rge: 29 W
Other Services	CNL/CDL MEL	
Elevation	K.B. 2803 D.F. 2796 G.L. 2796	

Permanent Datum	Ground Level	Elevation 2796
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	10/14/2012	
Run Number	One	
Depth Driller	4676	
Depth Logger	4676	
Bottom Logged Interval	4675	
Top Log Interval	250	
Casing Driller	8.625 @ 261	
Casing Logger	259	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	2000	
Density / Viscosity	9.2	43
pH / Fluid Loss	10.0	8.8
Source of Sample	Flowline	
Rm @ Meas. Temp	1.60 @ 72	
Rmf @ Meas. Temp	1.20 @ 72	
Rmc @ Meas. Temp	2.16 @ 72	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.94 @ 123	
Operating Rig Time	4 1/2 Hours	
Max Rec. Temp. F	123	
Equipment Number	108	
Location	Hays	
Recorded By	D. Martin	
Witnessed By	Bob Lewellvn	

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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
 Dighton, KS
 4 1/2 S, W Into

Database File: larhd.db
 Dataset Pathname: DIL/larstk
 Presentation Format: dil2in
 Dataset Creation: Sun Oct 14 14:18:56 2012
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150
-200 SP 0

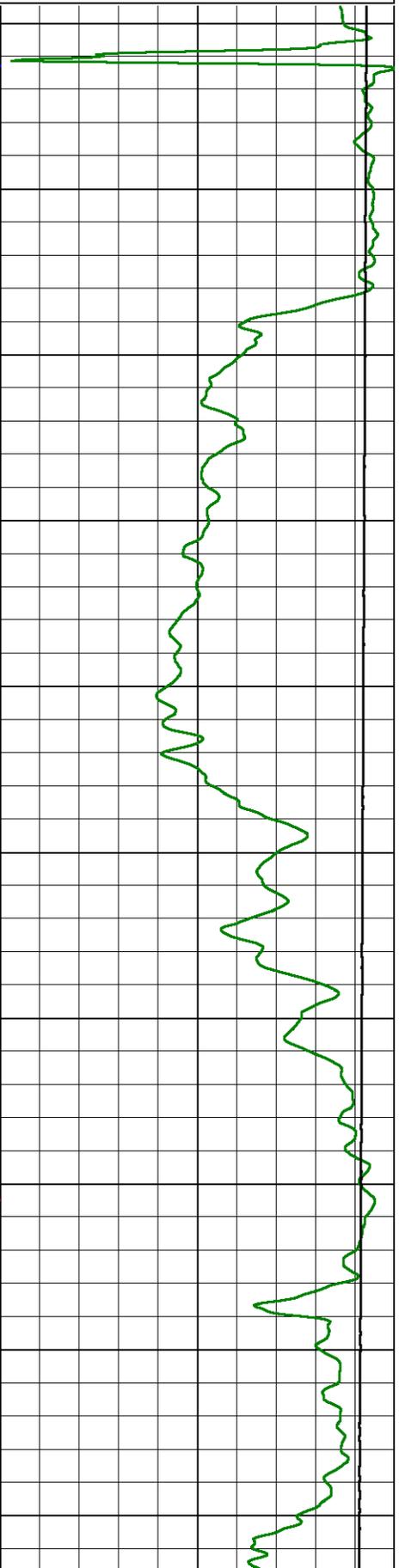
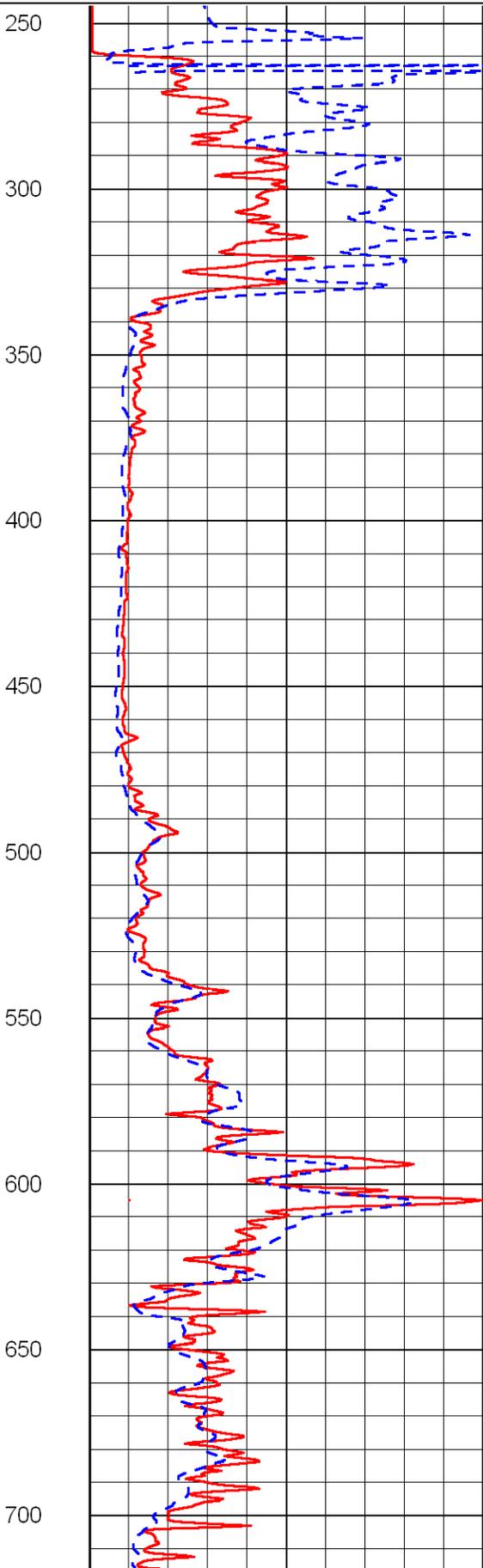
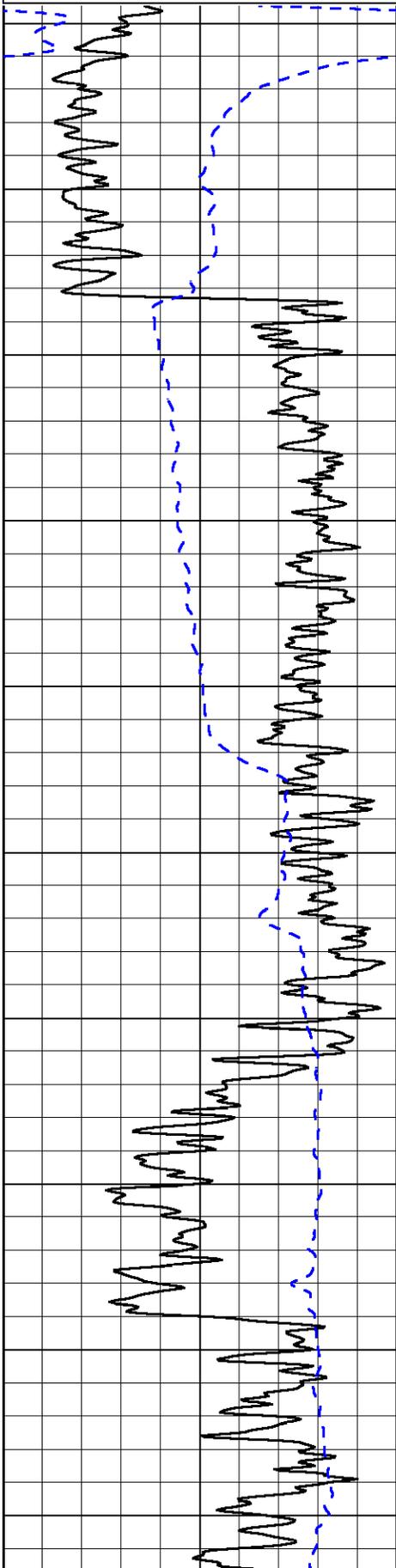
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0 Deep Resistivity 50

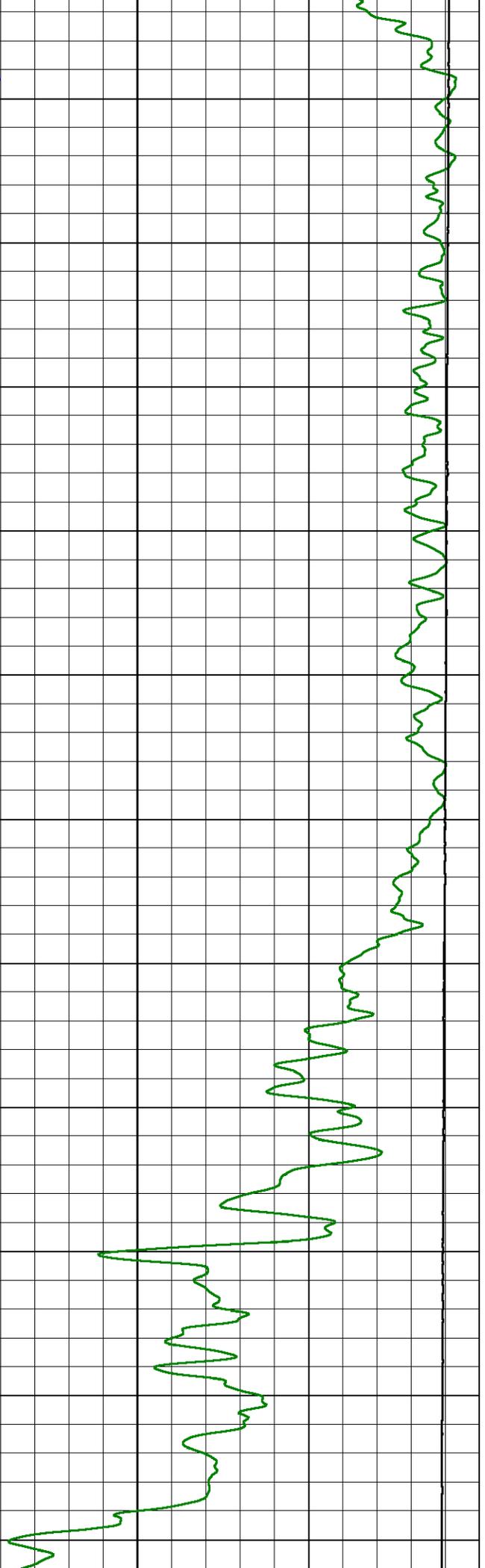
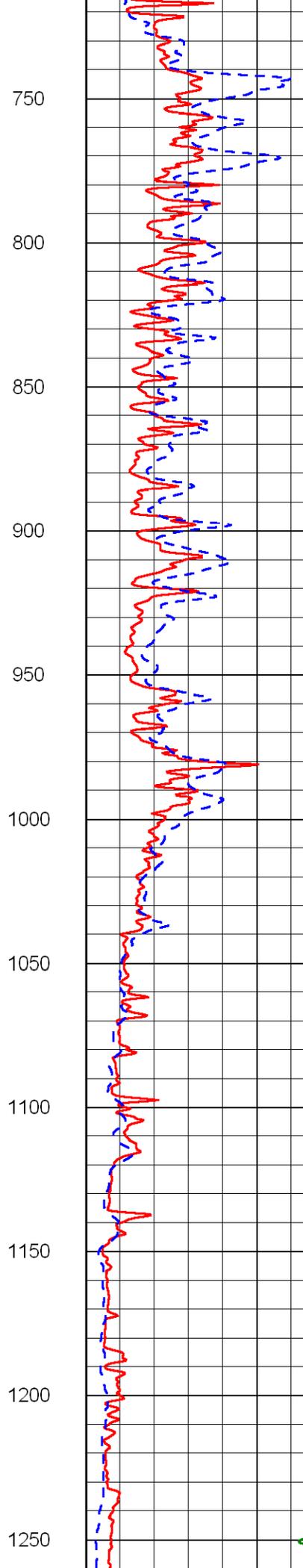
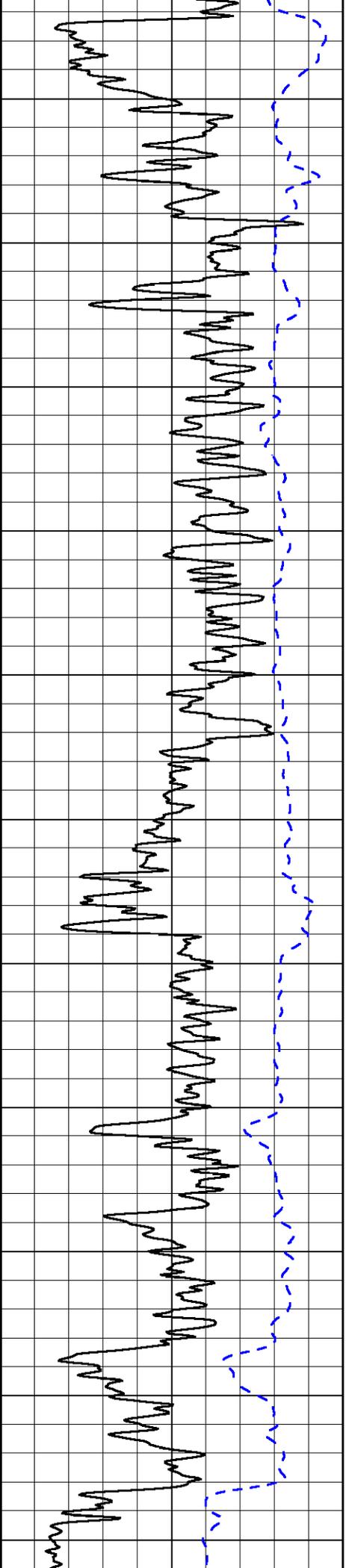
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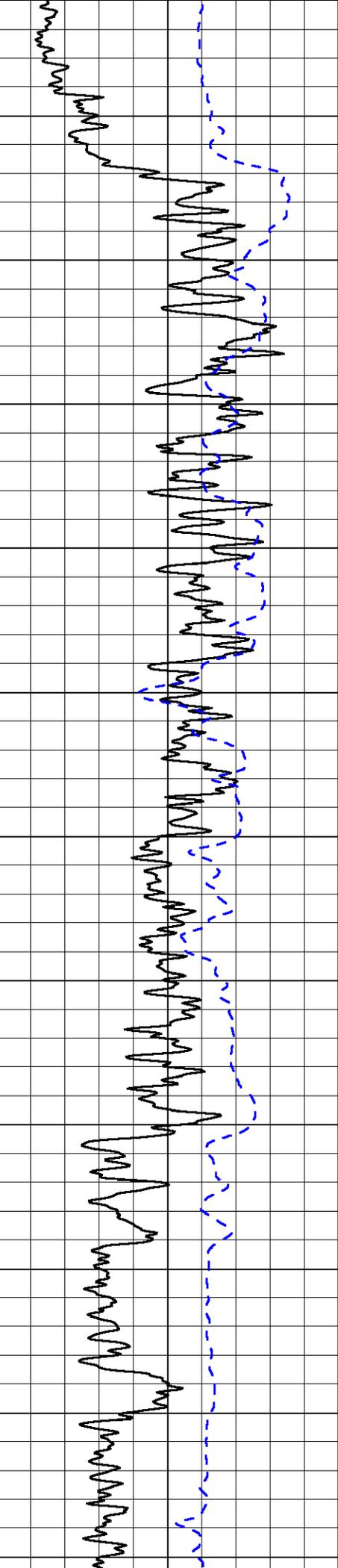
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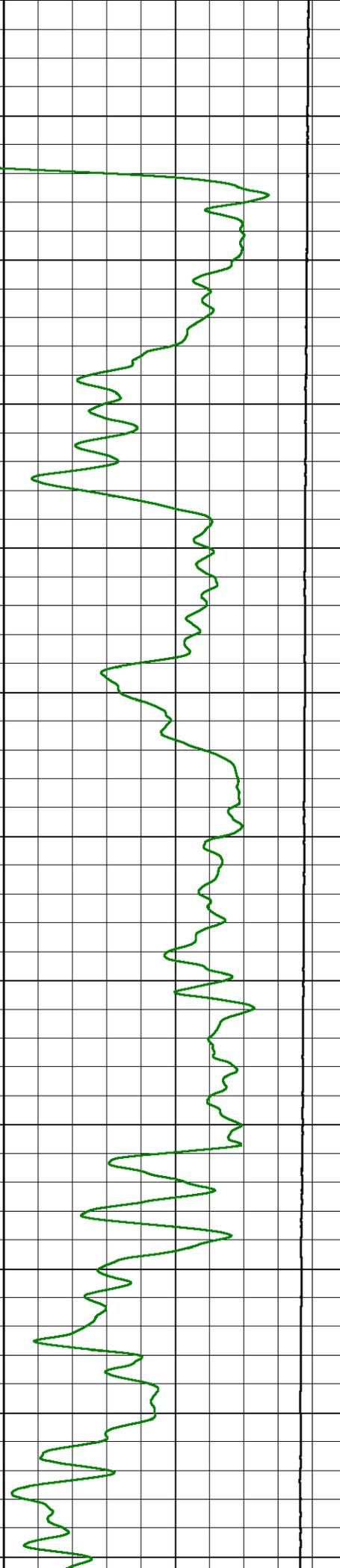
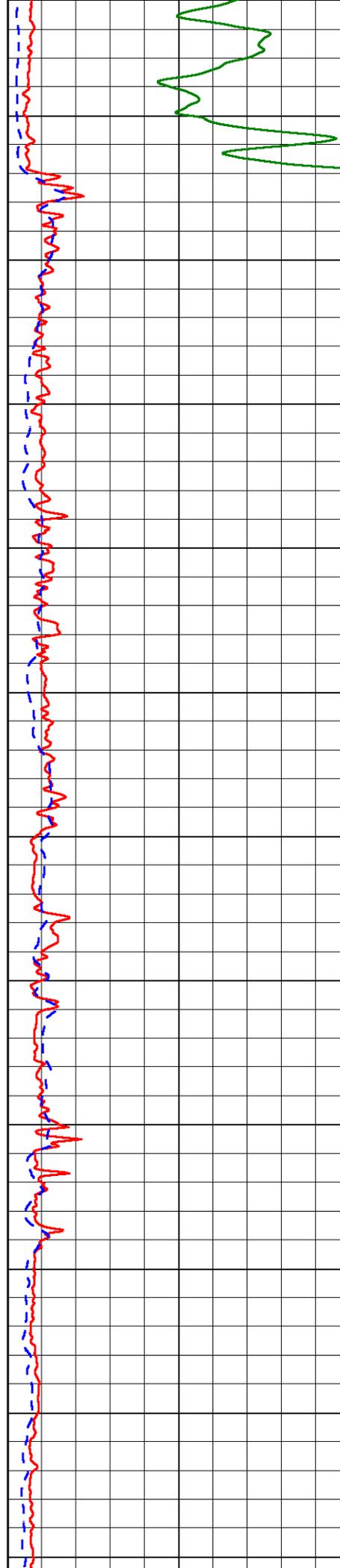
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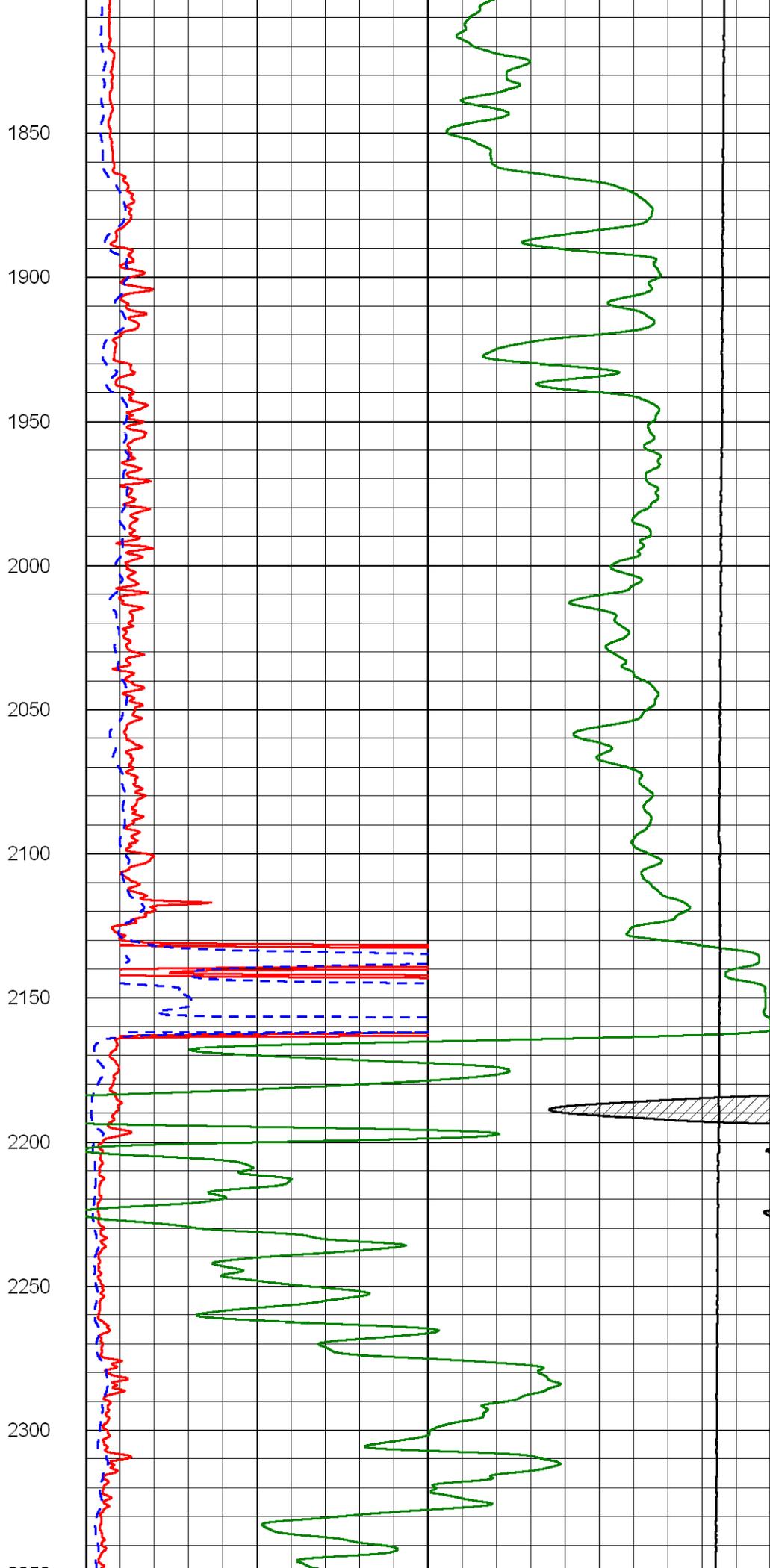
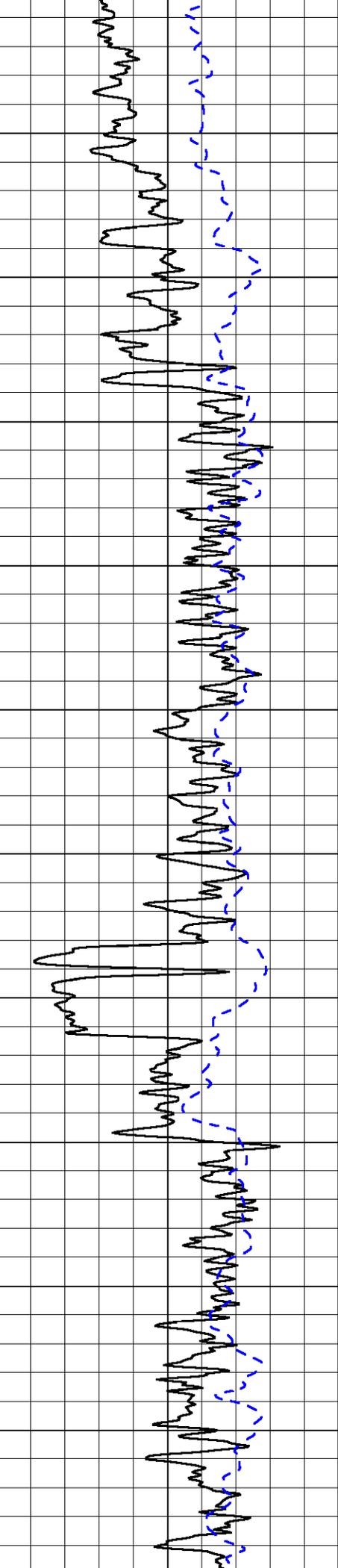


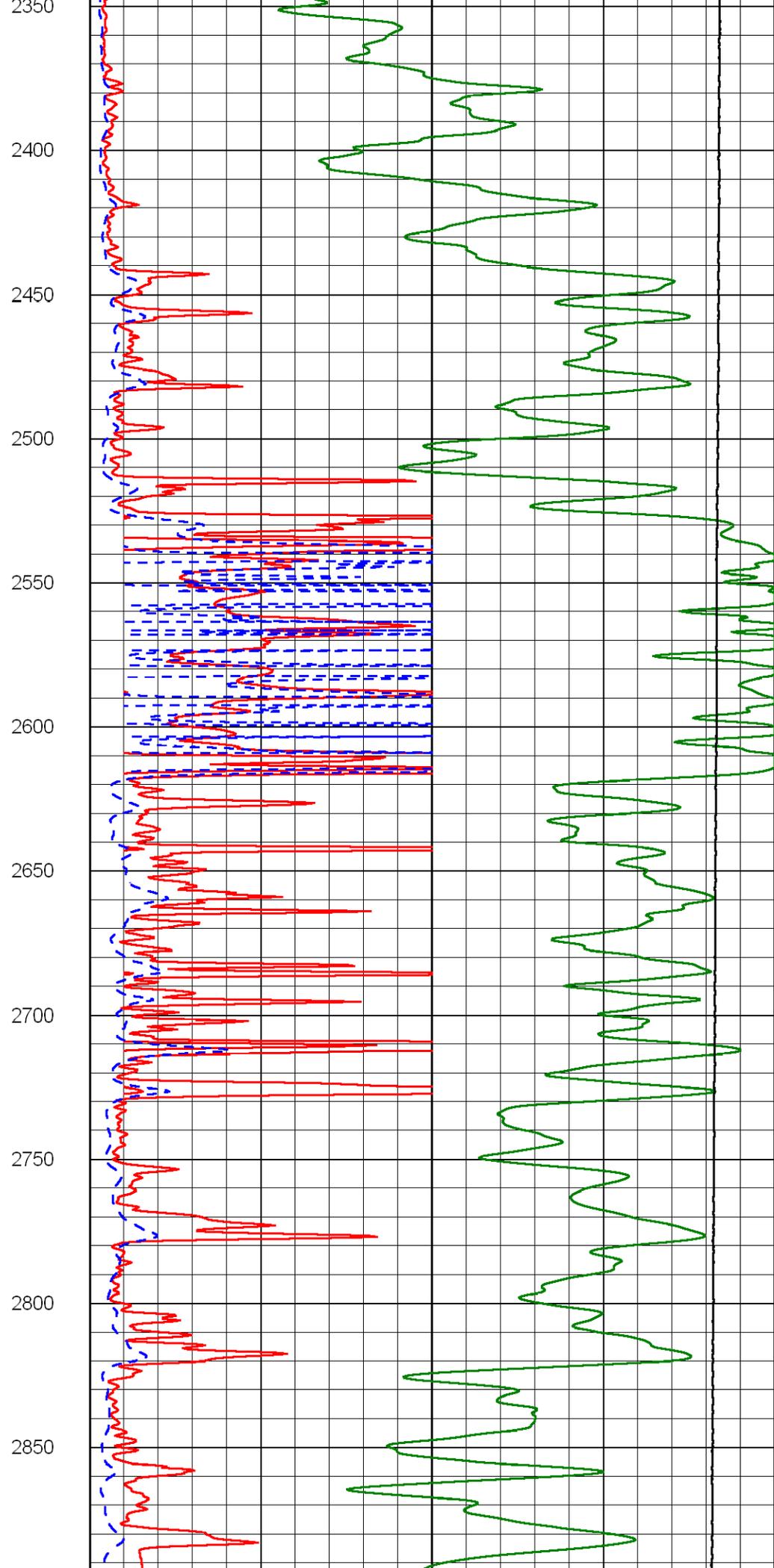
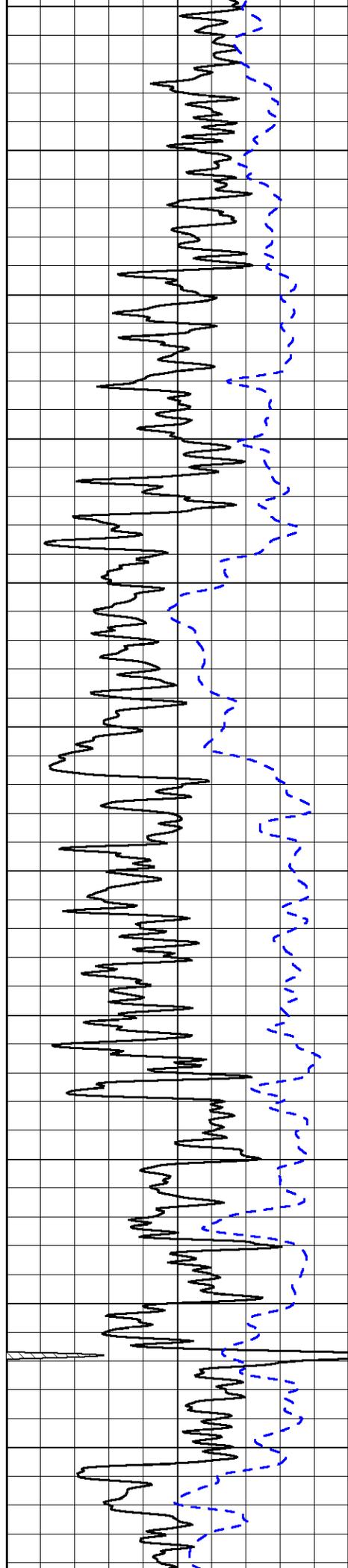


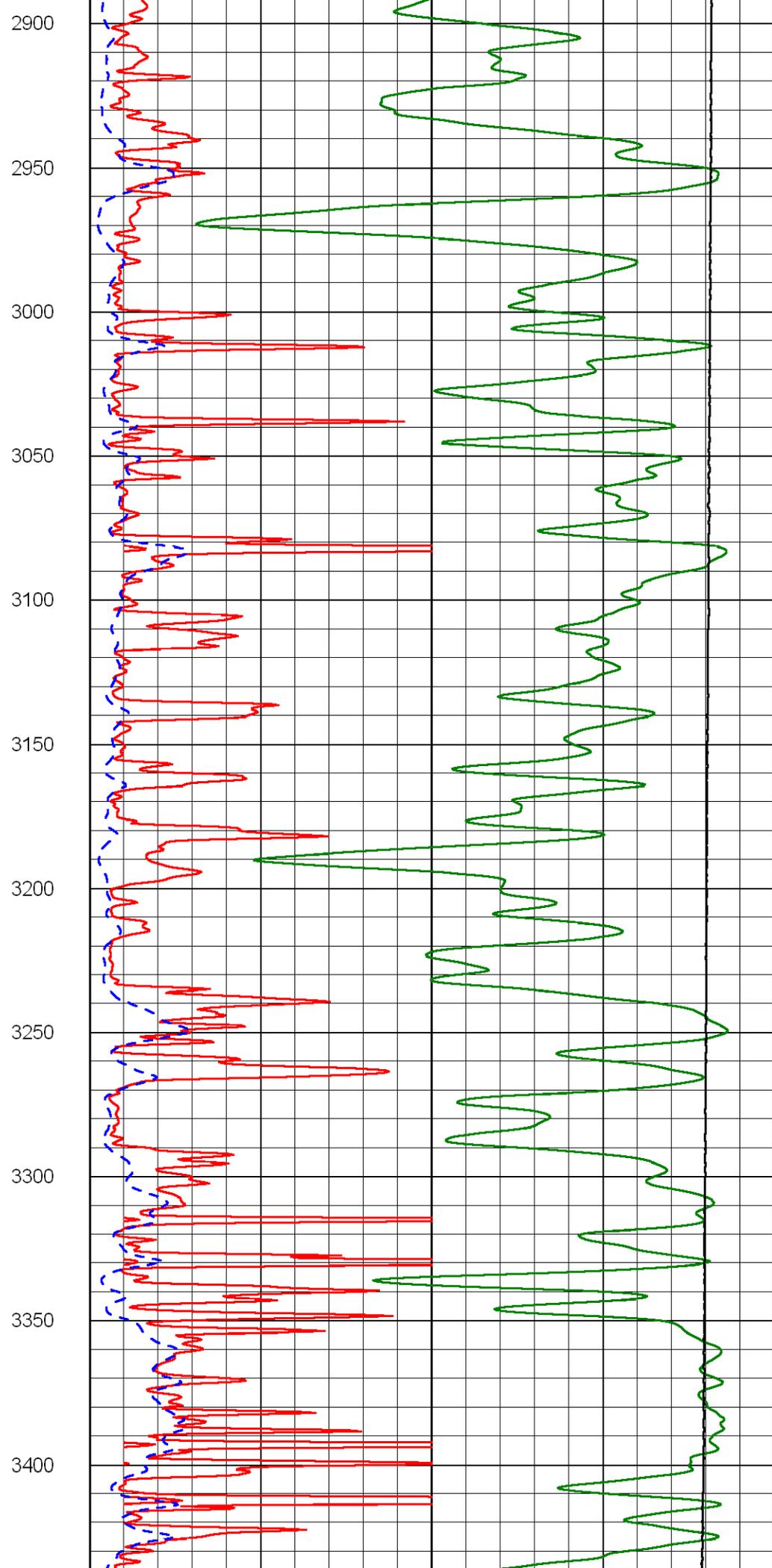
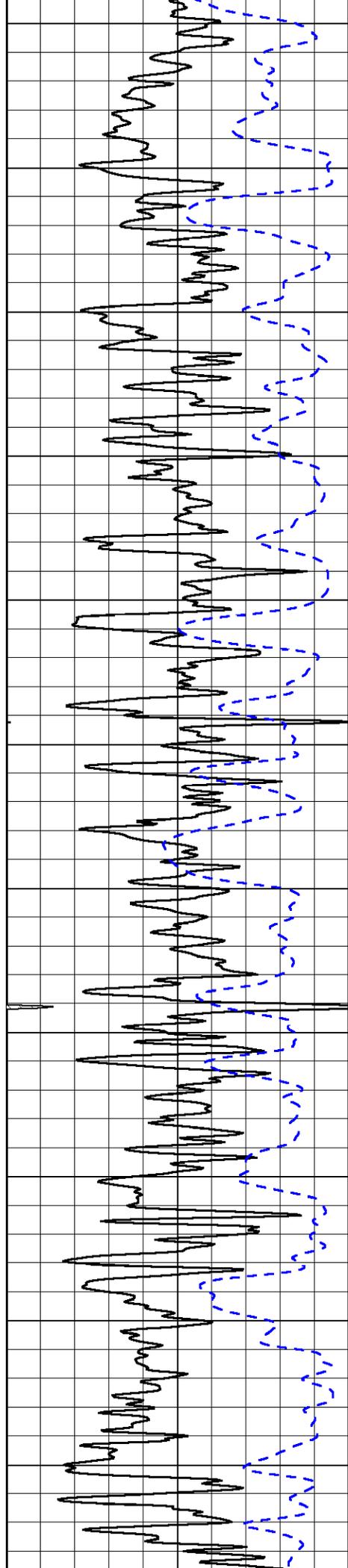


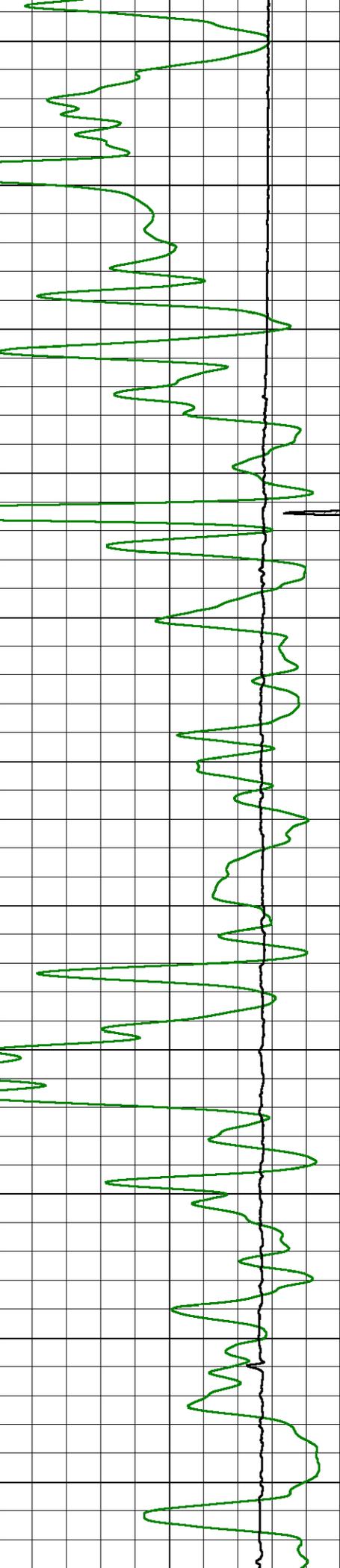
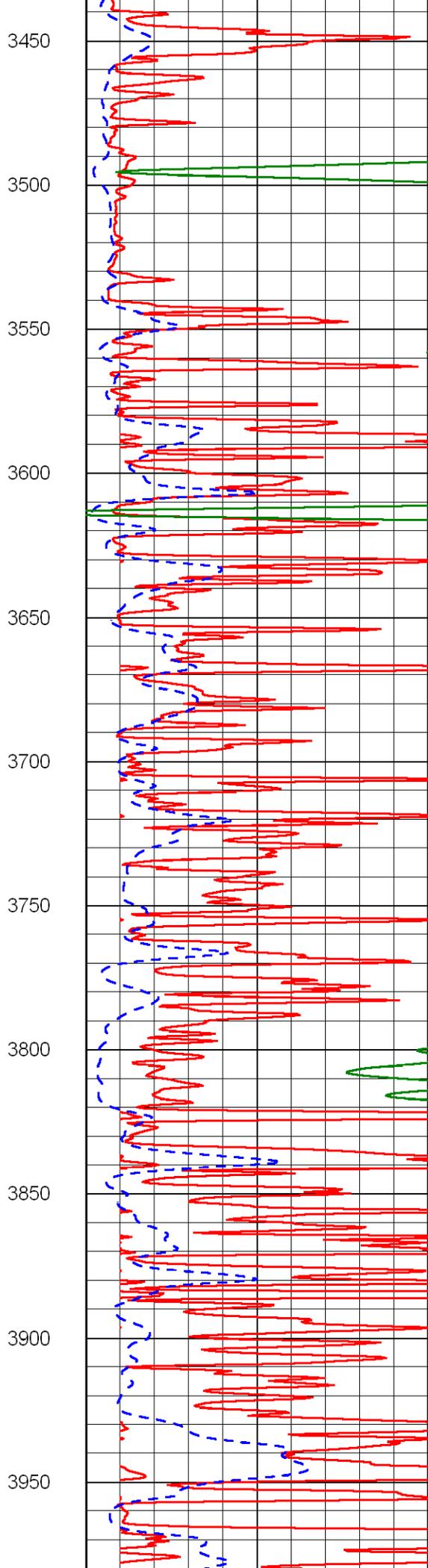
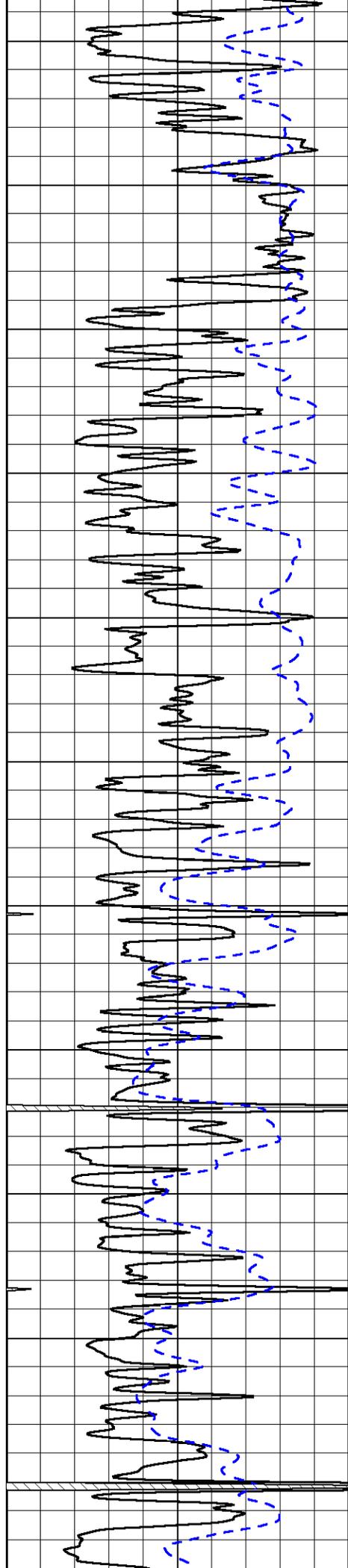
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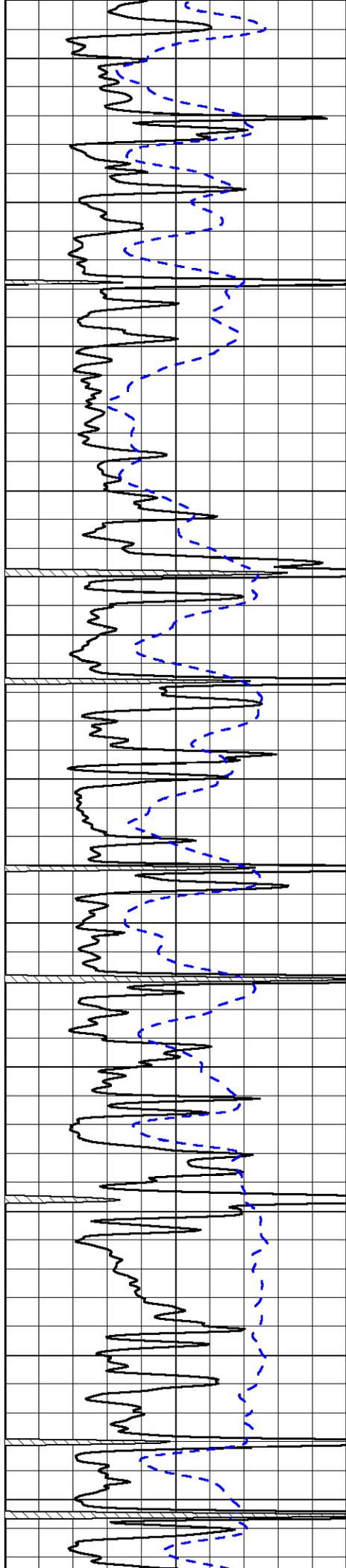












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4100

4150

4200

4250

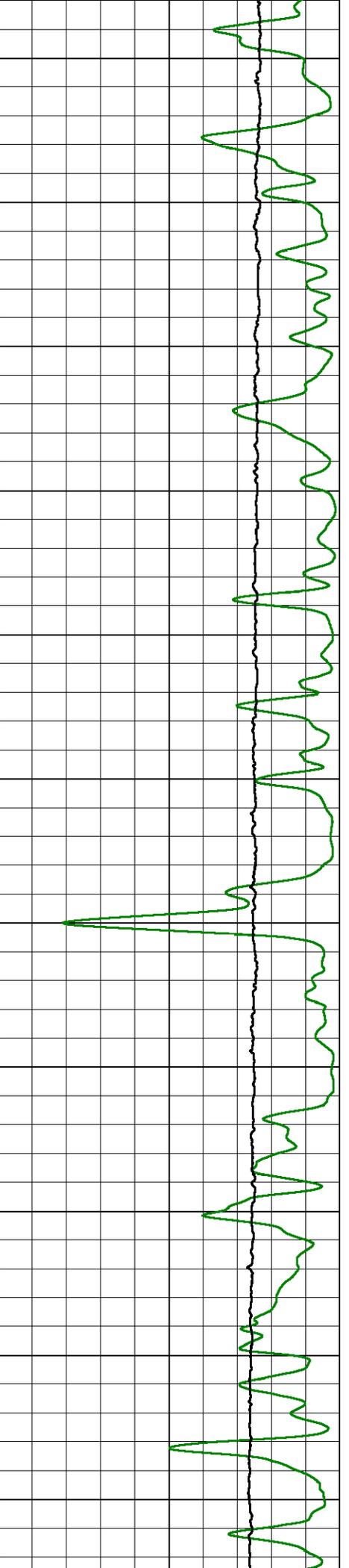
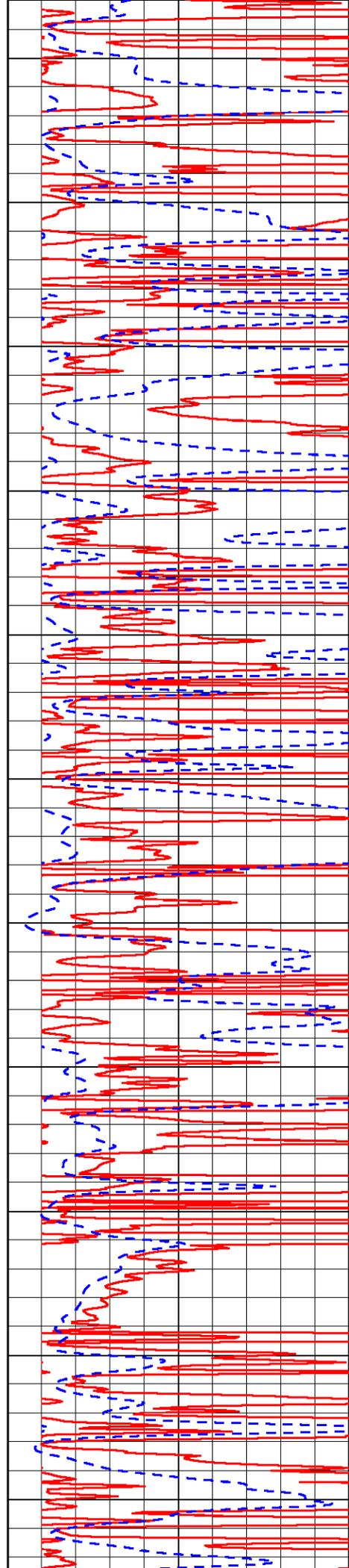
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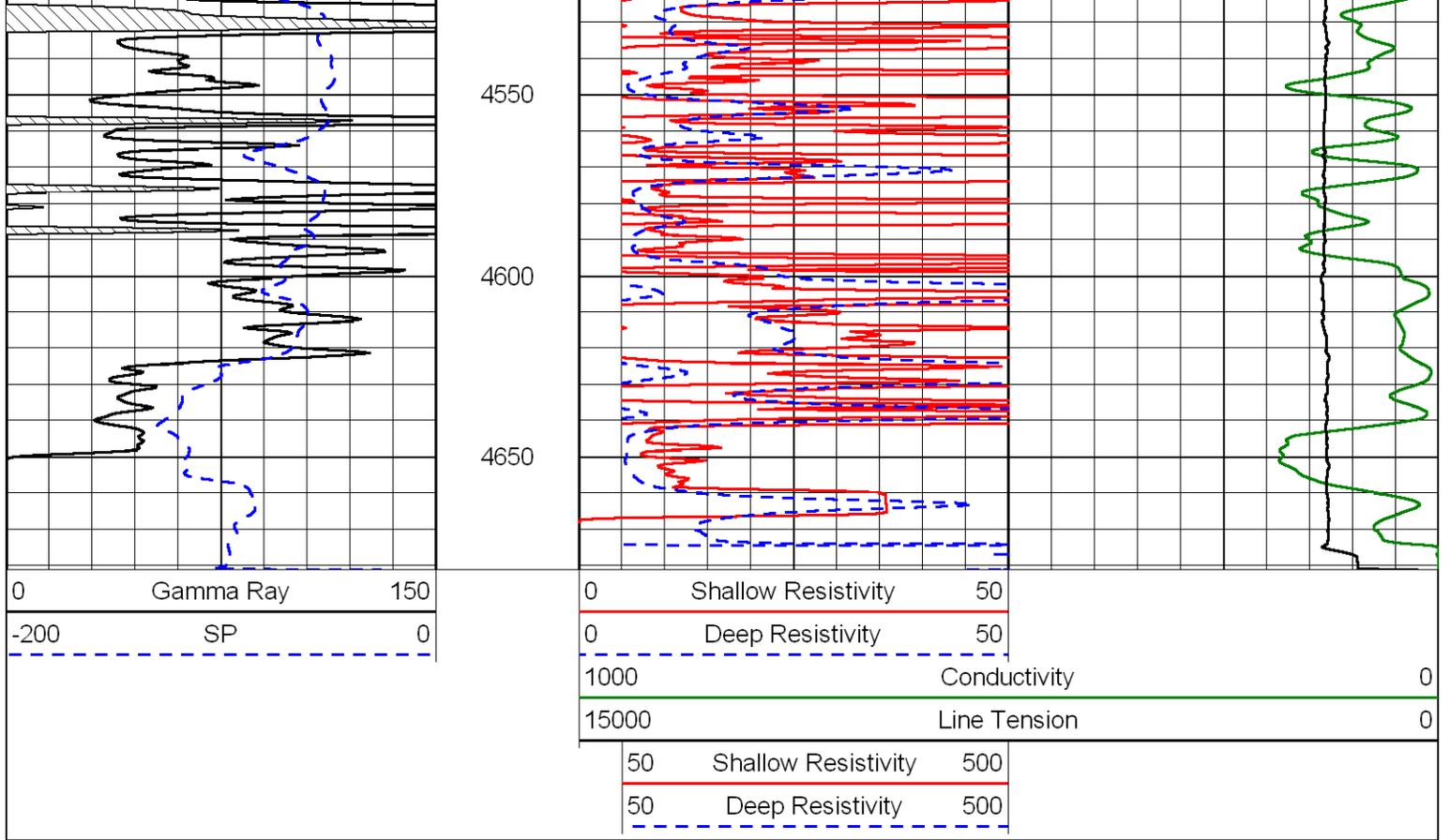
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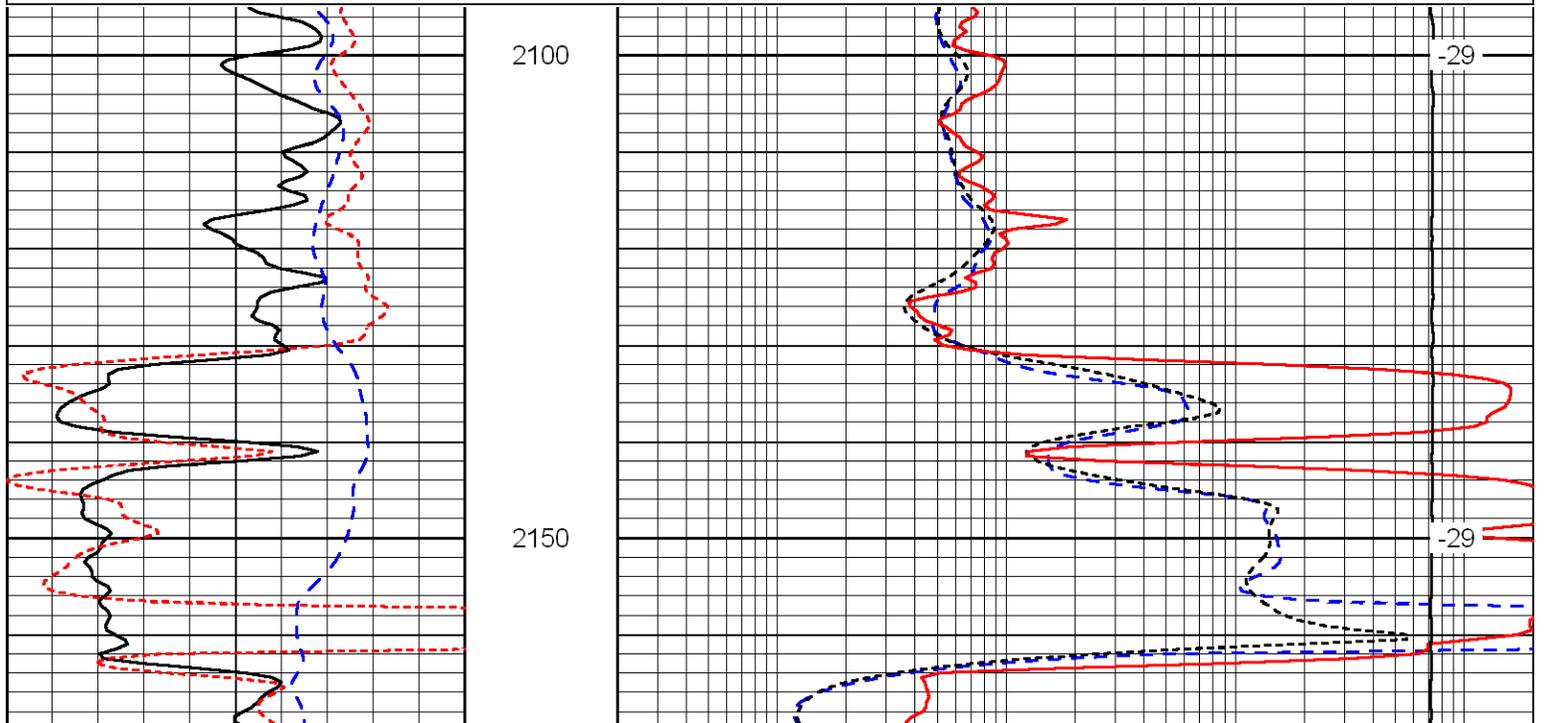
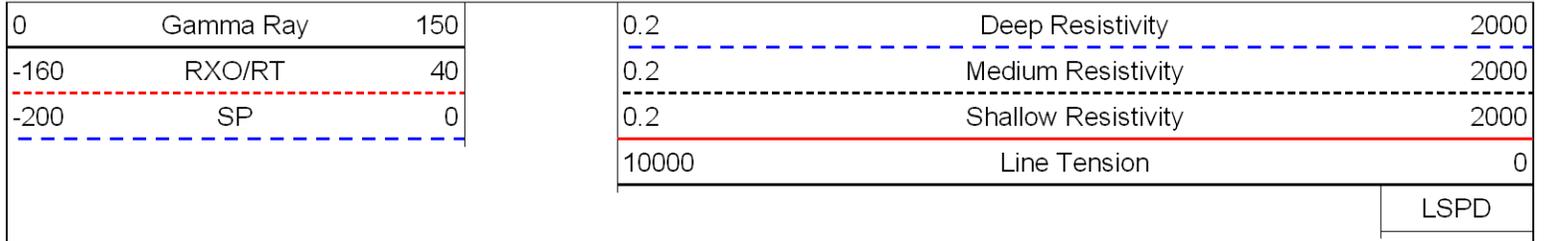
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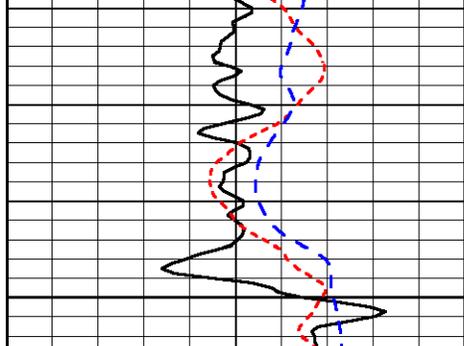
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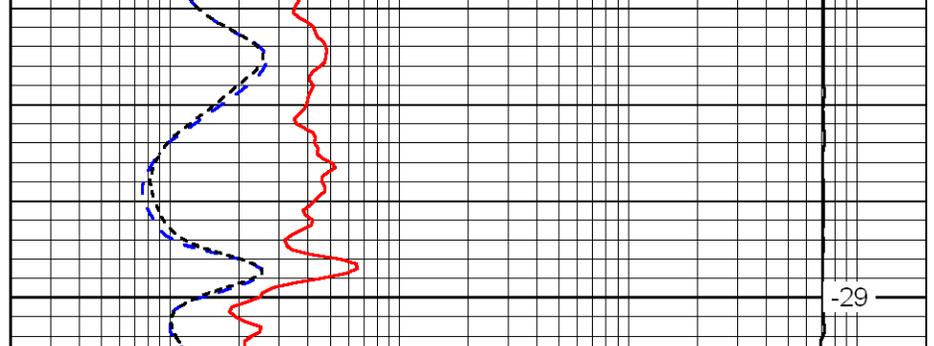
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 Dataset Creation: Sun Oct 14 14:18:56 2012
 Charted by: Depth in Feet scaled 1:240





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

2200



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

-29

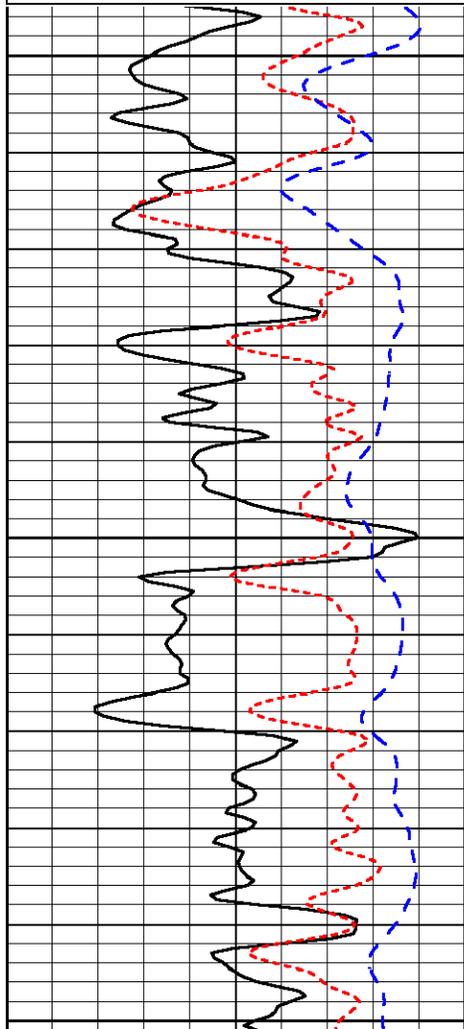
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0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

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

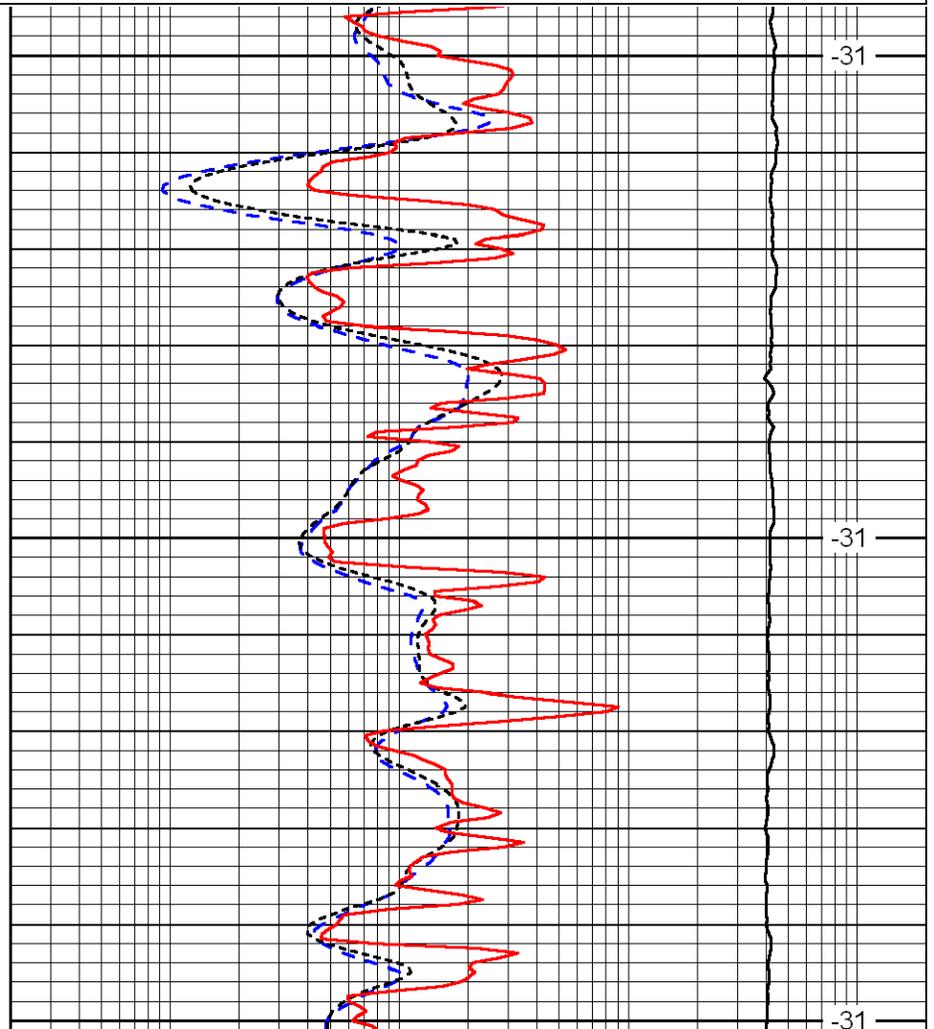
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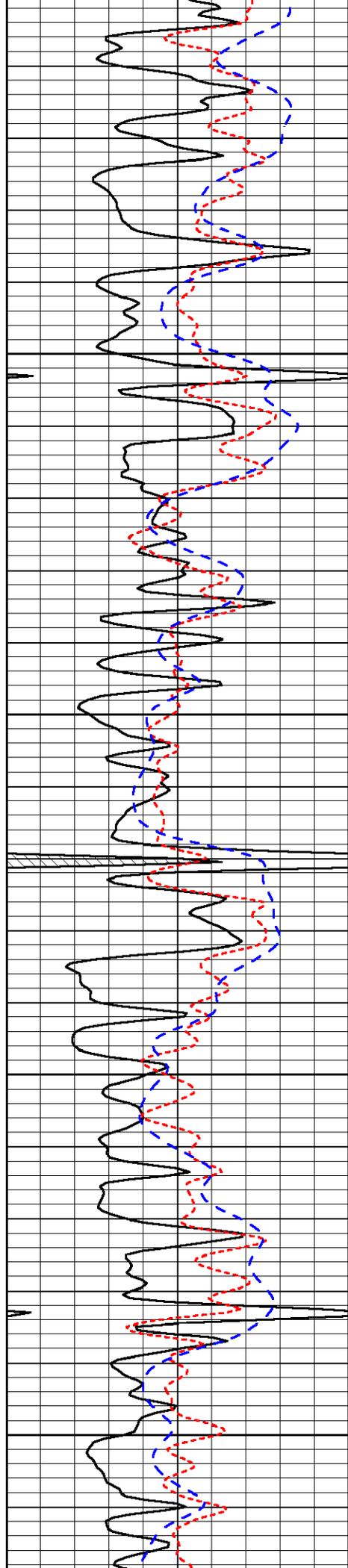
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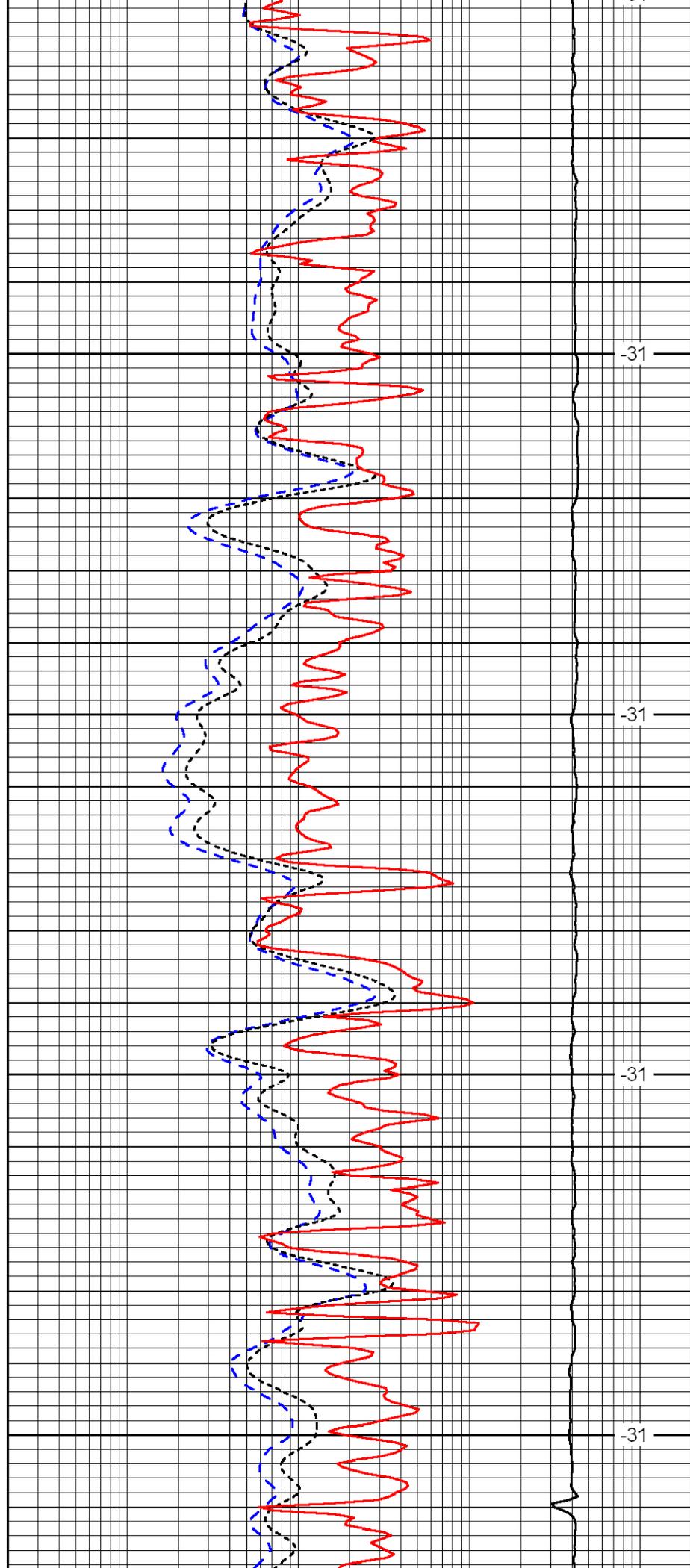


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3900

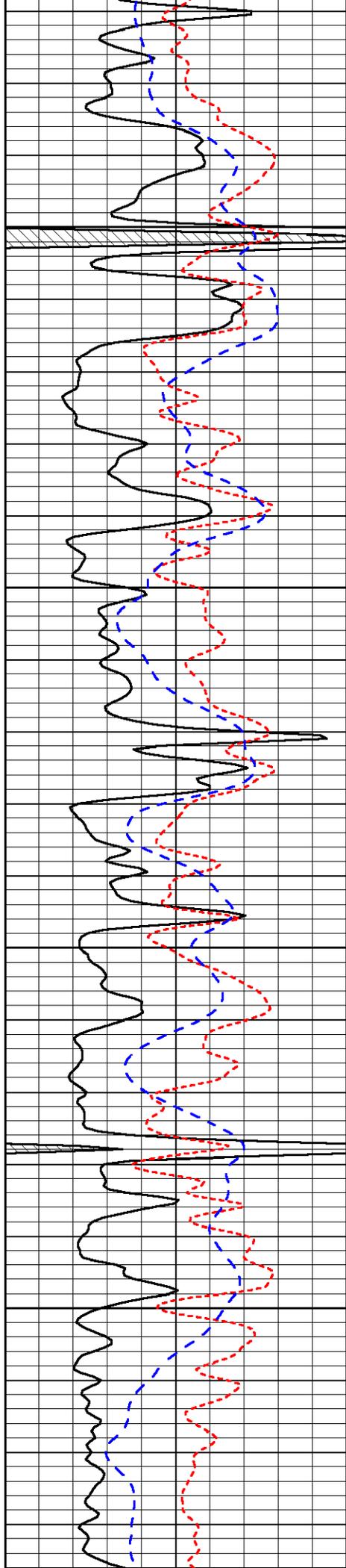


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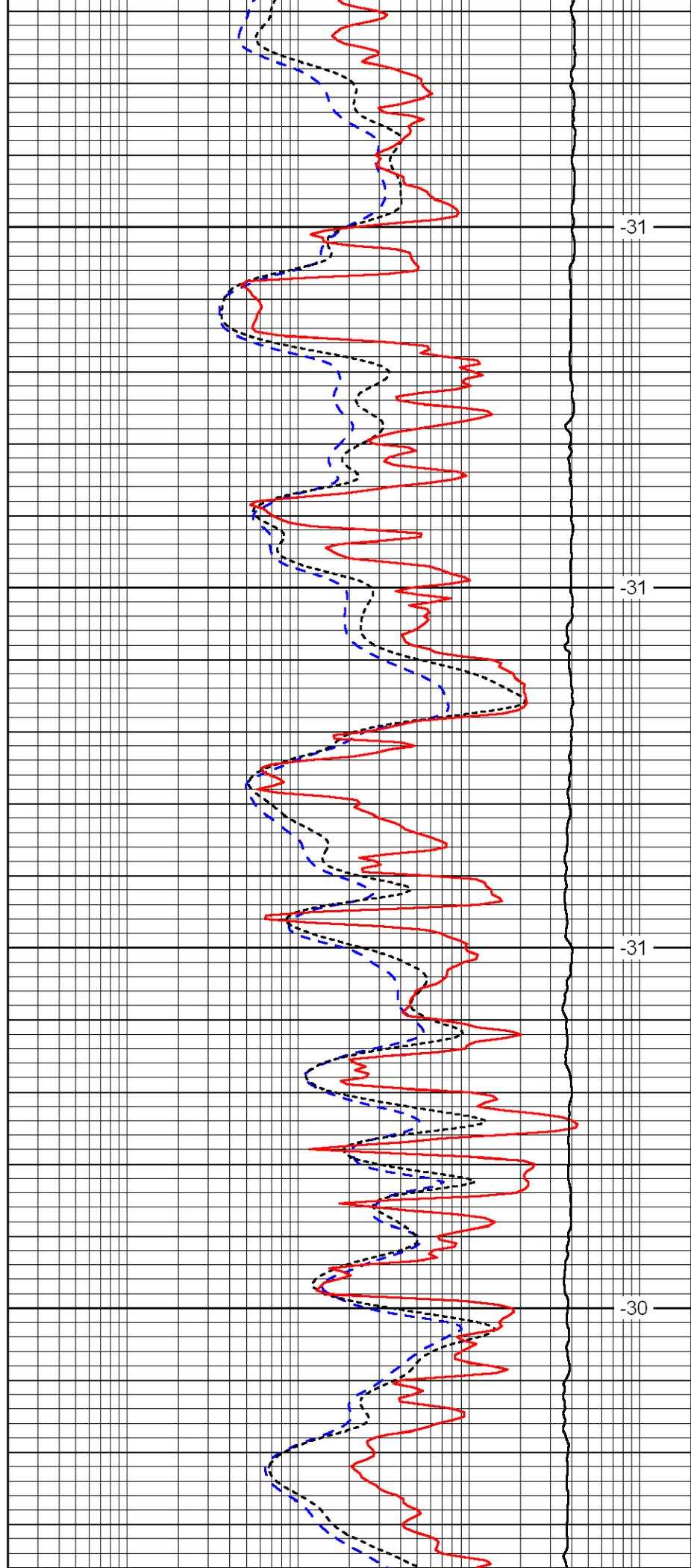


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4000

4050

4100

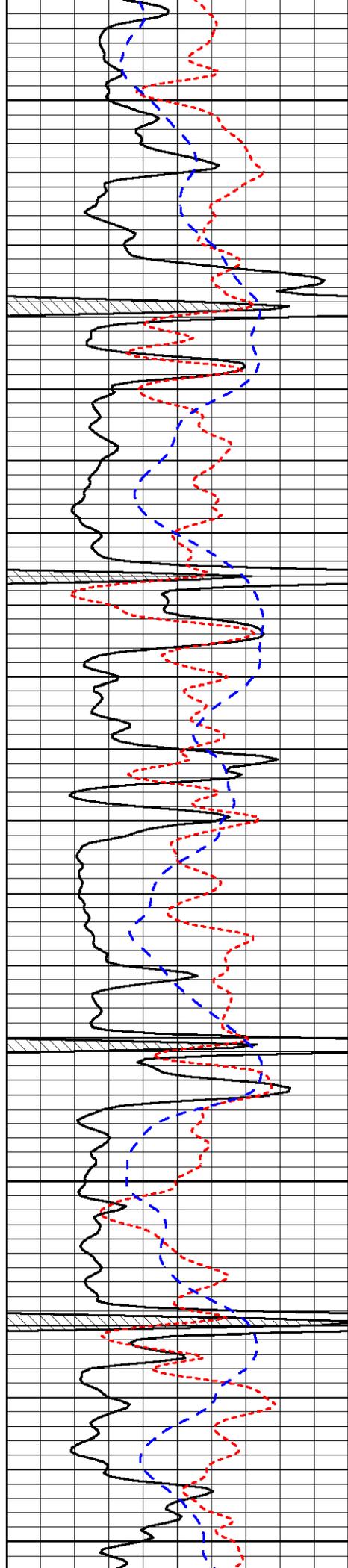


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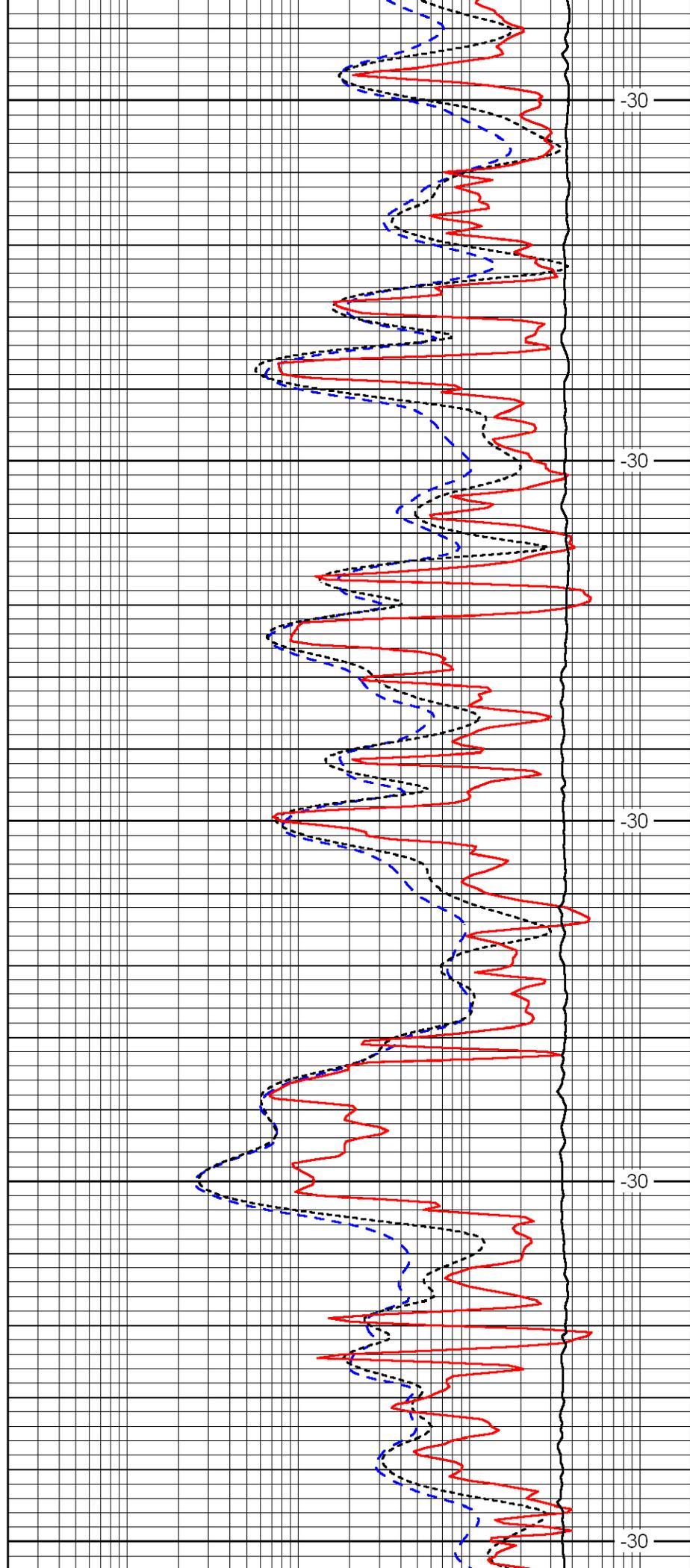
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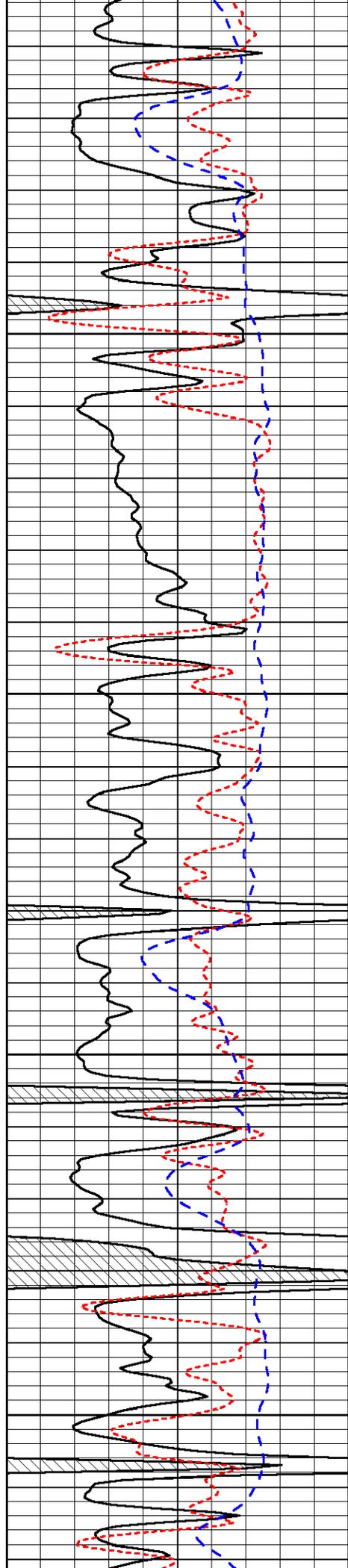
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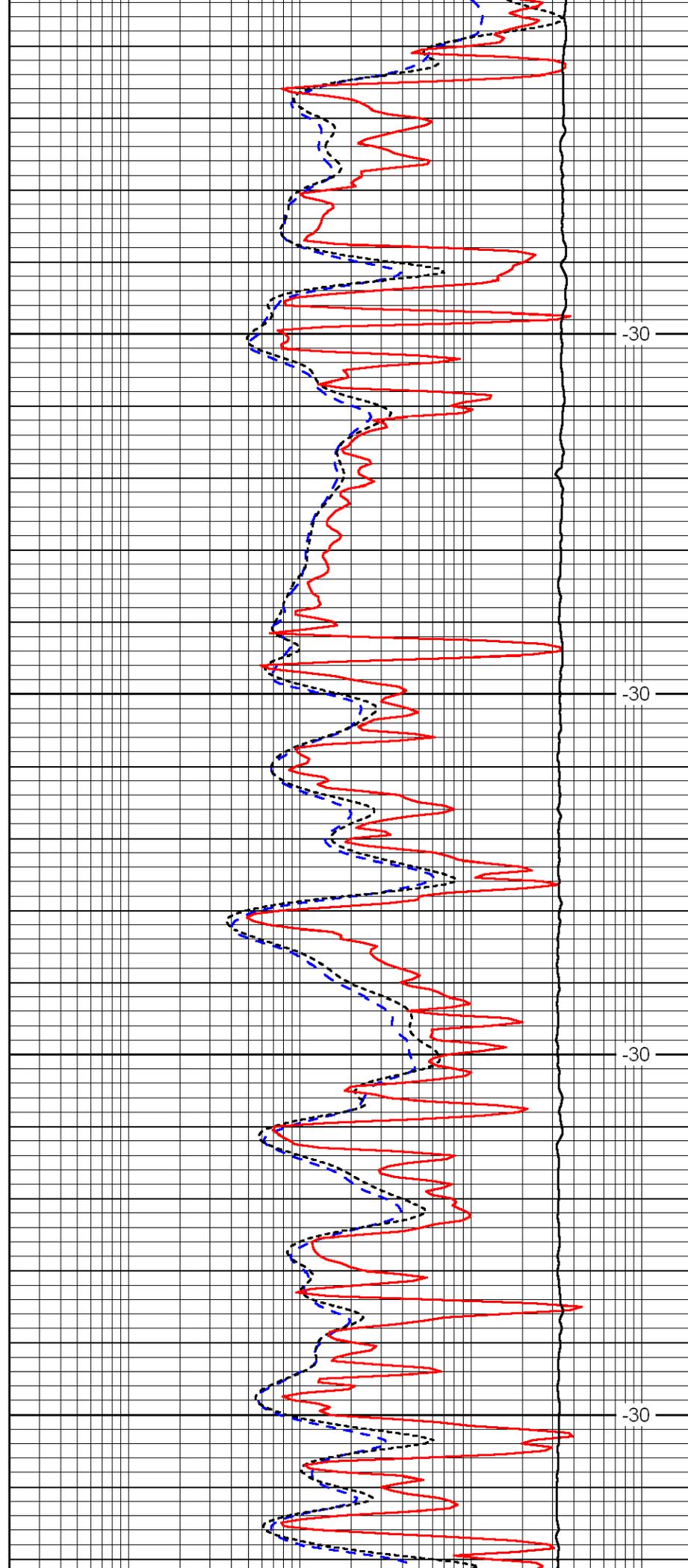


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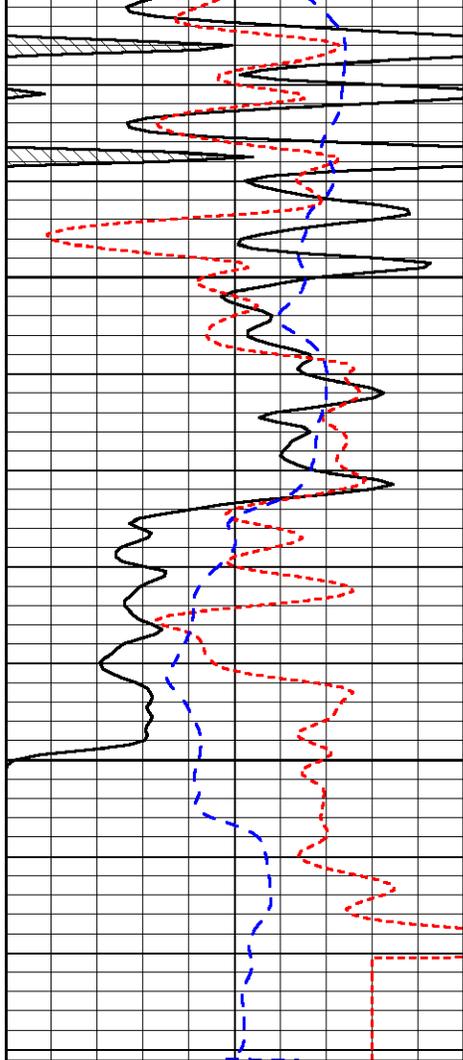


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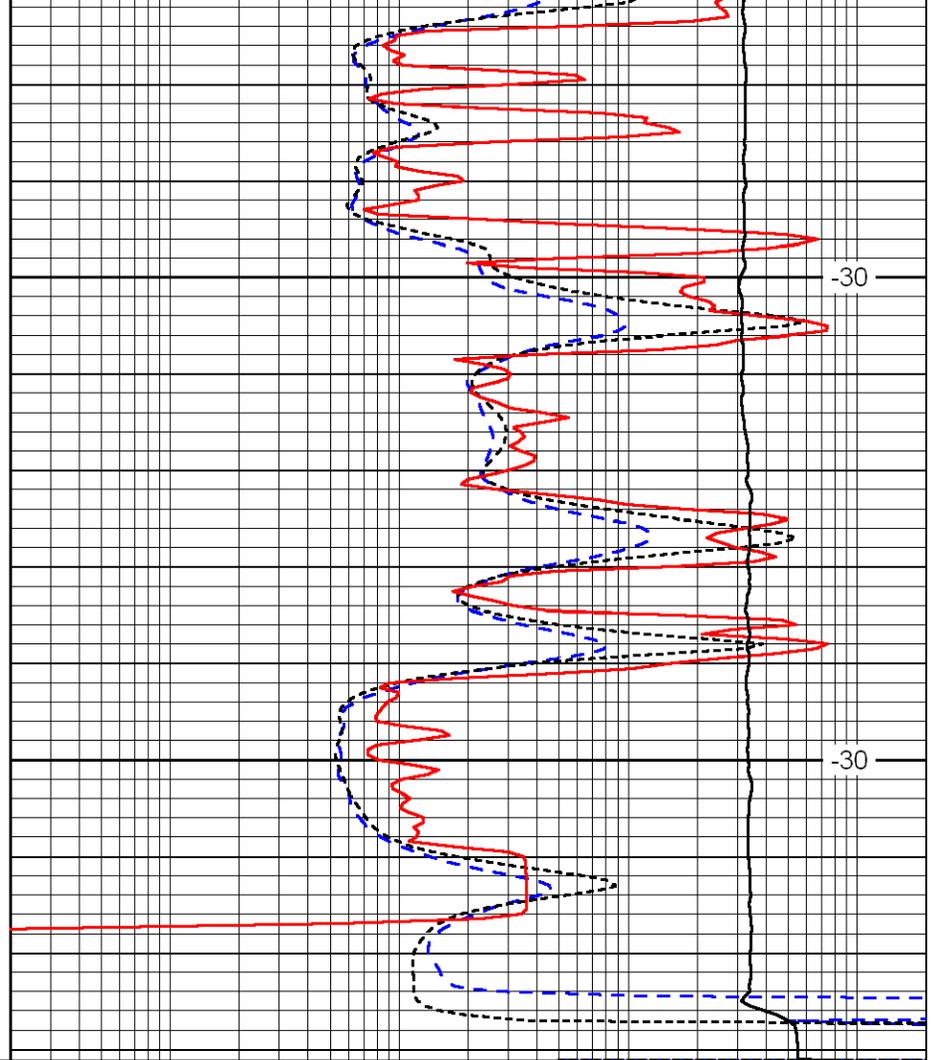
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4600

4650

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-200	SP	0



-30

-30

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

LSPD