LOG-TECH

DIGITAL LOG (785) 625-3858

Borehole Compensated Sonic Log

API No. 15-065-23,775-00-00

Company H&C Oil Operating, Inc.

Well Bollig No. 12-1

Field Law Southeast

County Graham State Kansas

Location 1,320' FNL & 1,650' FWL

Sec: 12 Twp: 10S Rge: 23W

Permanent Datum Ground Level Elevation 2420

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 2425
D.F.
G.L. 2420

Date	10/5/2011
Run Number	Two
Type Log	BHC Sonic
Depth Driller	4272
Depth Logger	4271
Bottom Logged Interval	4260
Top Logged Interval	250
Type Fluid In Hole	Chemical
Salinity, PPM CL	3000
Density	9.2
Level	Full
Max. Rec. Temp. F	119
Operating Rig Time	4 Hours
Equipment -- Location	10 Hays
Recorded By	J. Long
Witnessed By	Clayton Erickson

Borehole Record

Run No.	Bit	From	To
1	12.25	00	270
2	7.875	270	4272

Casing Record

Size	Wgt.	From	To
8.625	24#	00	270

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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

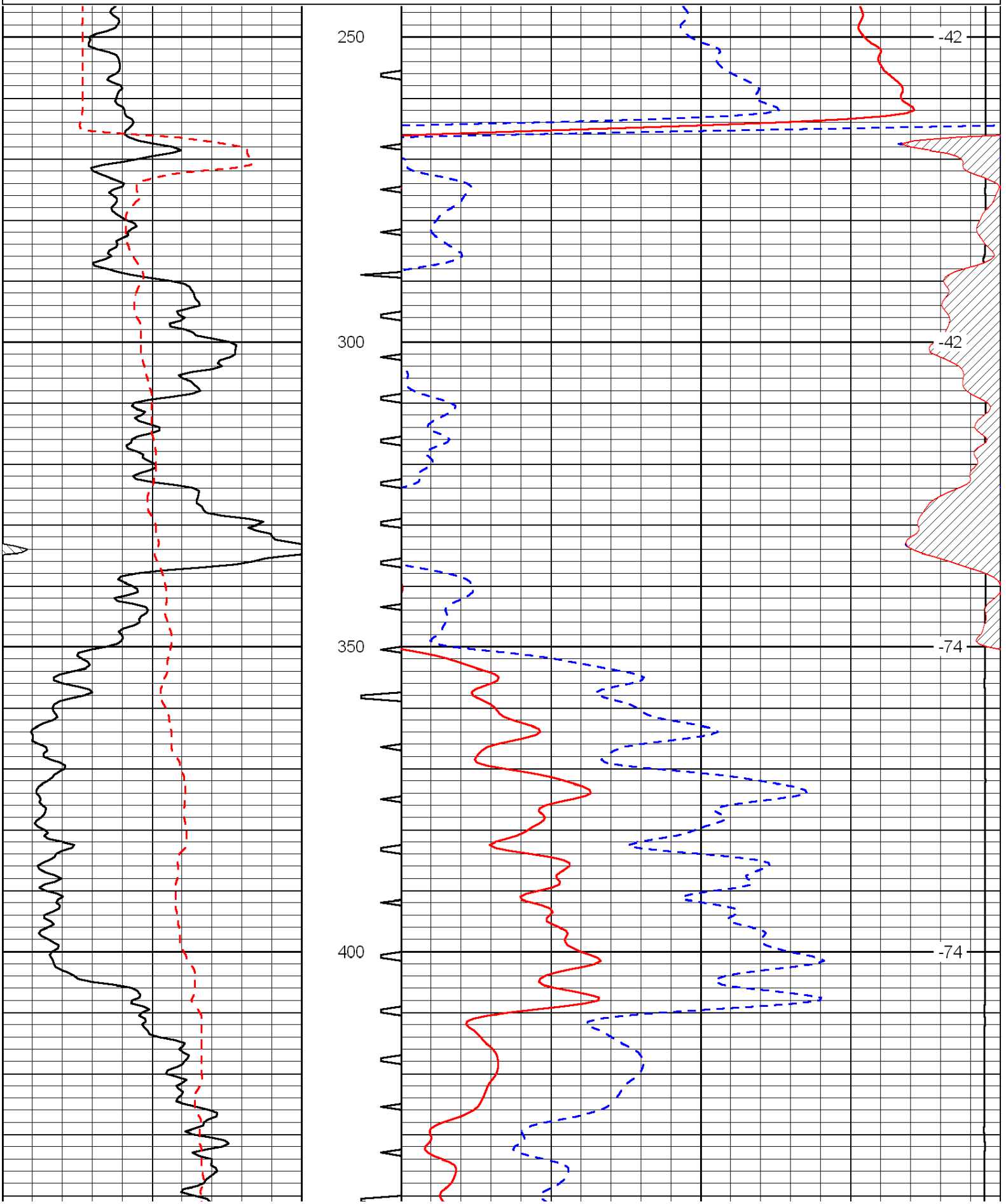
Thank you for using Log-Tech, Inc.
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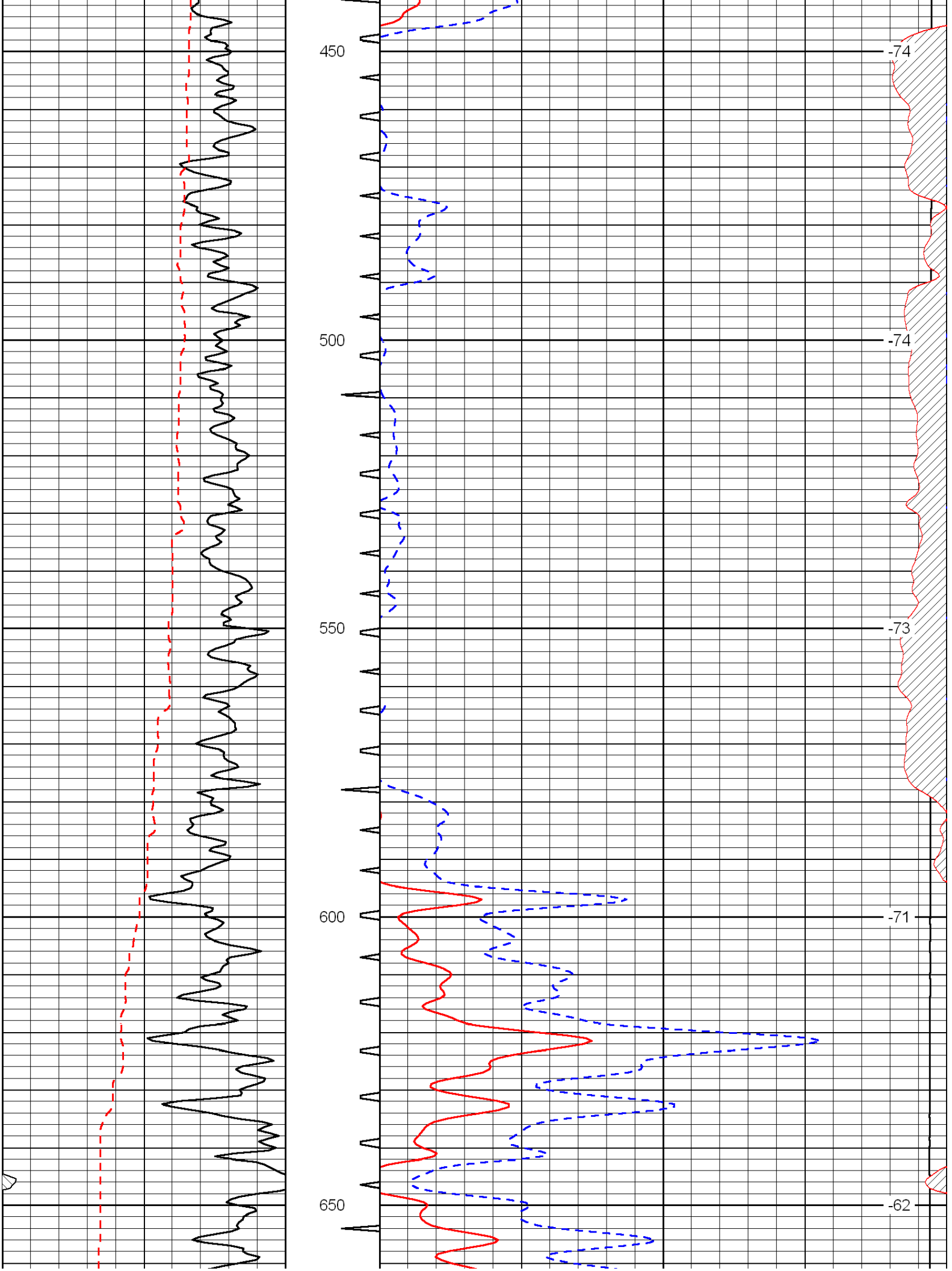
Wakeeney, North to H Road (Redline Road), 1 East to 270 Road, 2 South to F Road, 1/4 East, South Into

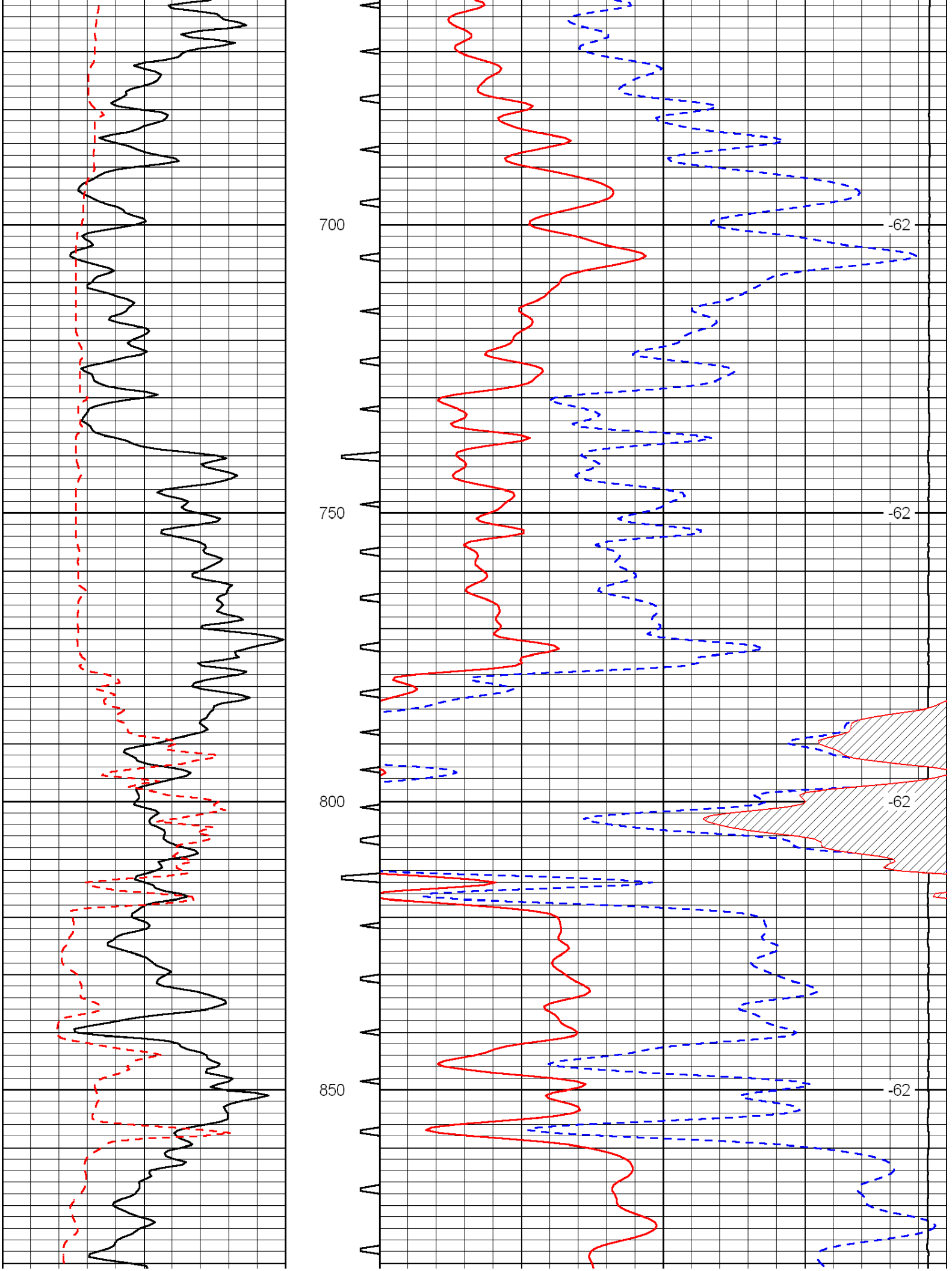
Database File:	c:\warrior\data\h&c_bollig no. 12-1\h&c_bollig_12-1hd.db
Dataset Pathname:	dil/hcstck
Presentation Format:	sonic
Dataset Creation:	Thu Oct 06 00:26:17 2011
Charted by:	Depth in Feet scaled 1:240

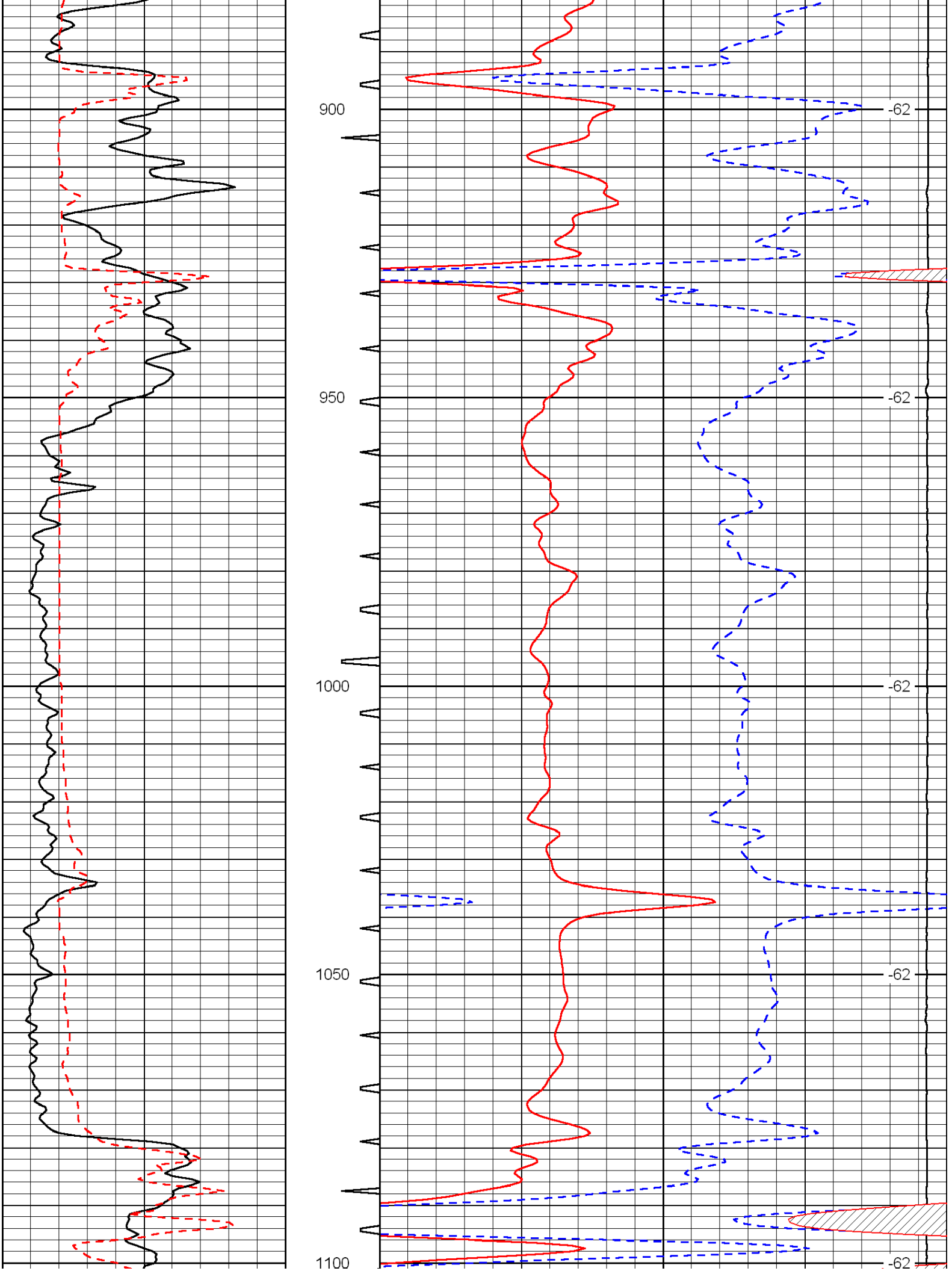
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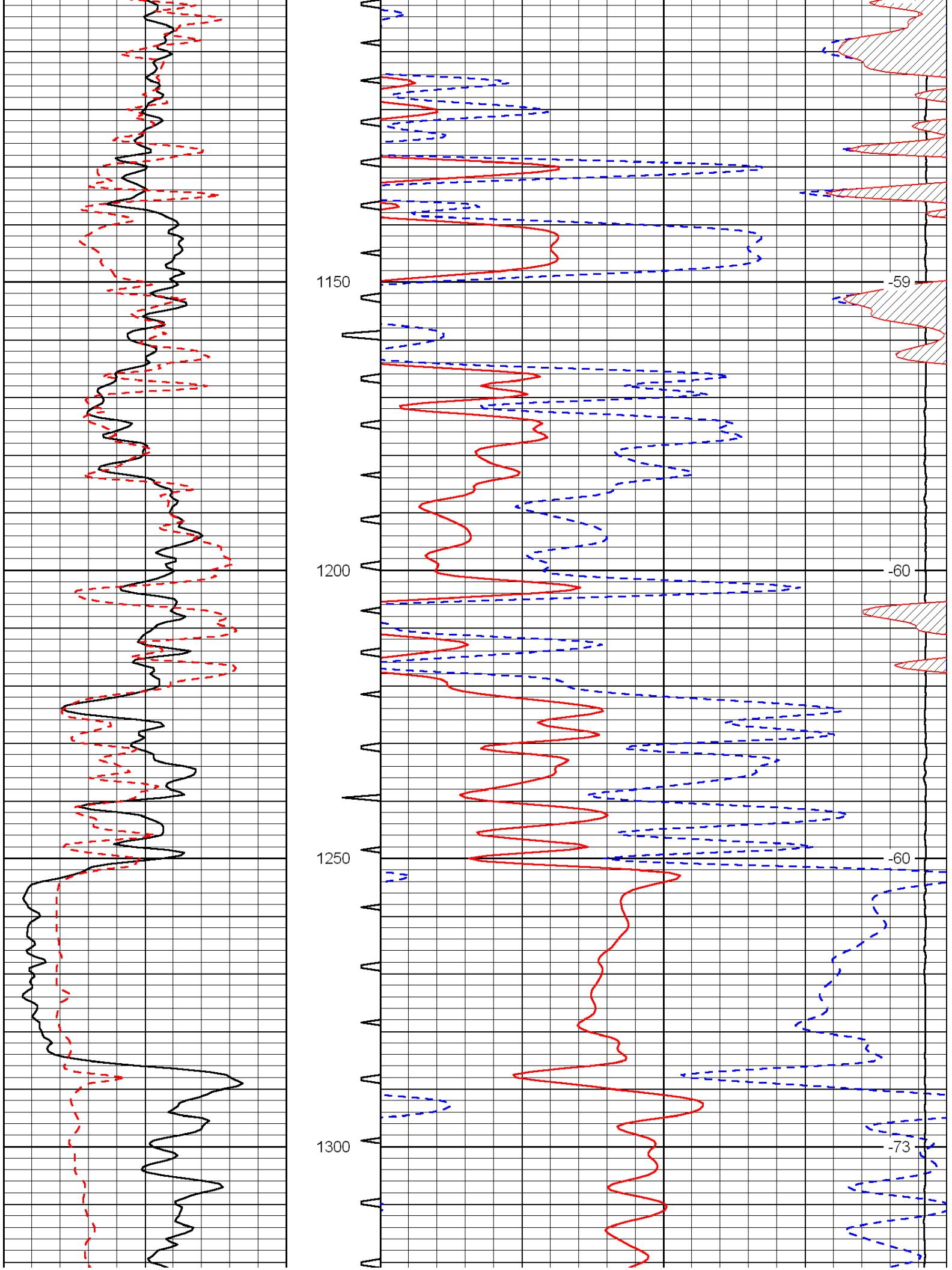
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5 0	30	SPOR	-10	
6	Caliper (GAPI)	16		15000	LTEN (lb)	0	
							LSPD

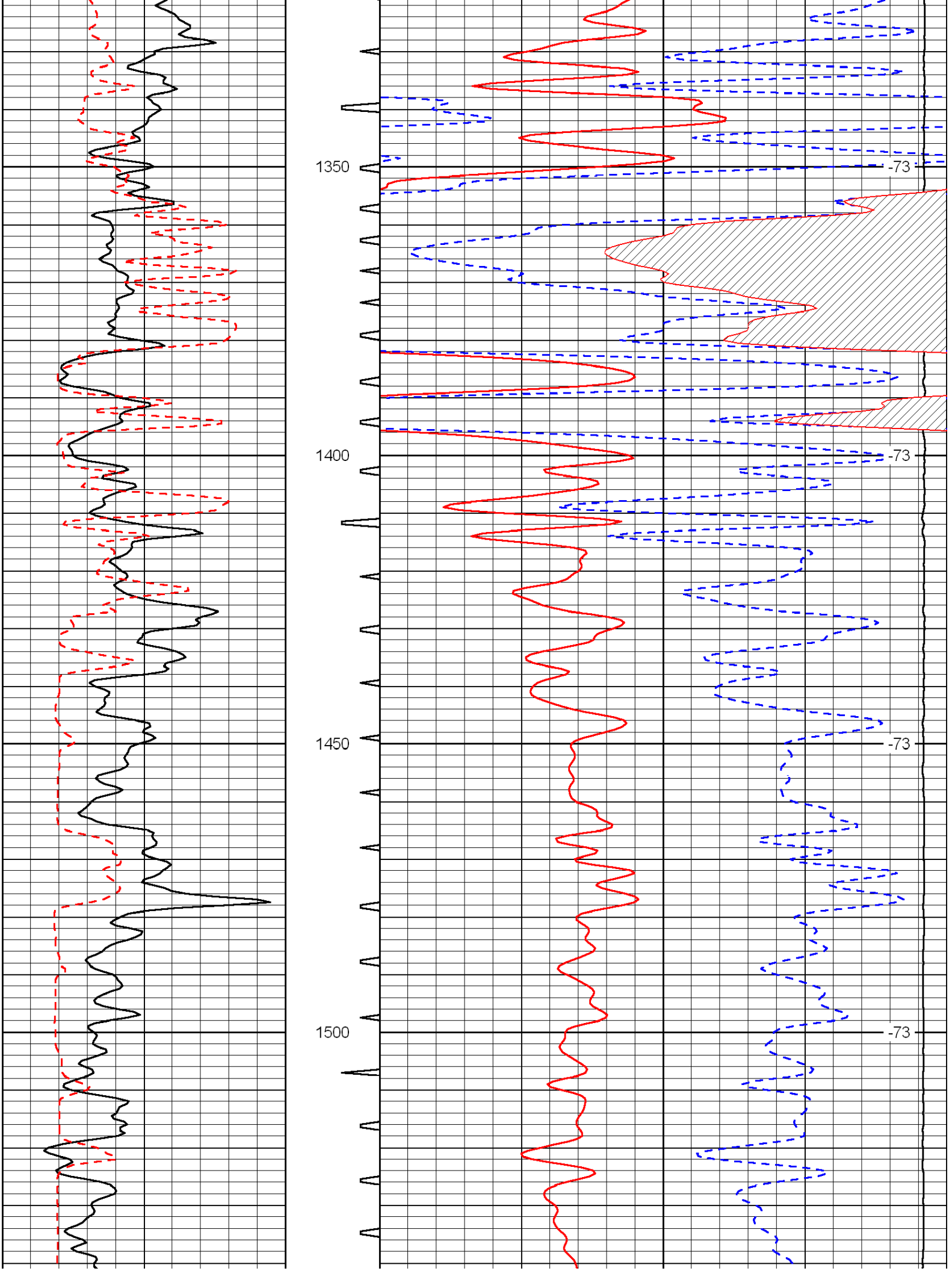


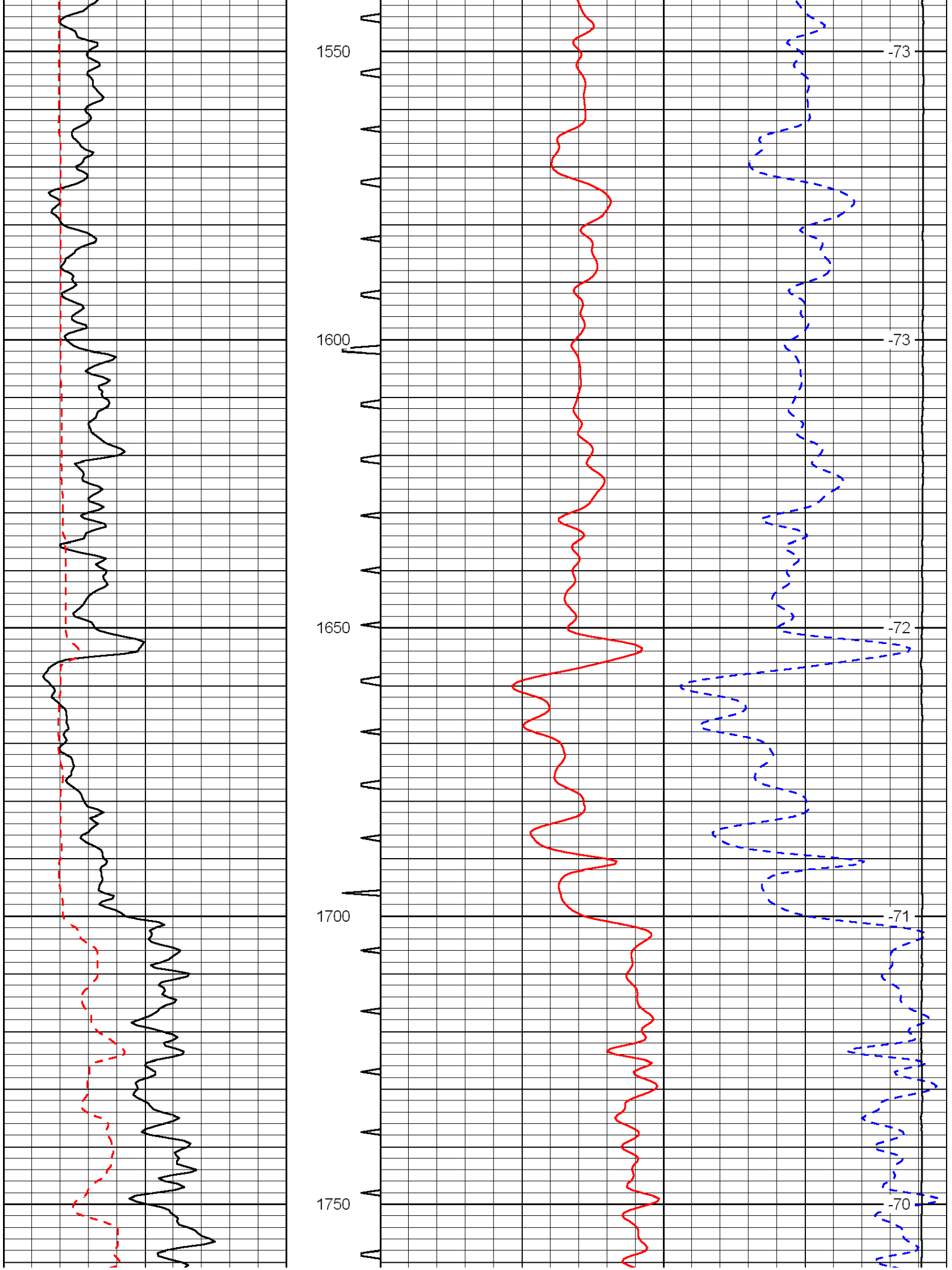

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500
550
600
650
-74
-74
-73
-71
-62

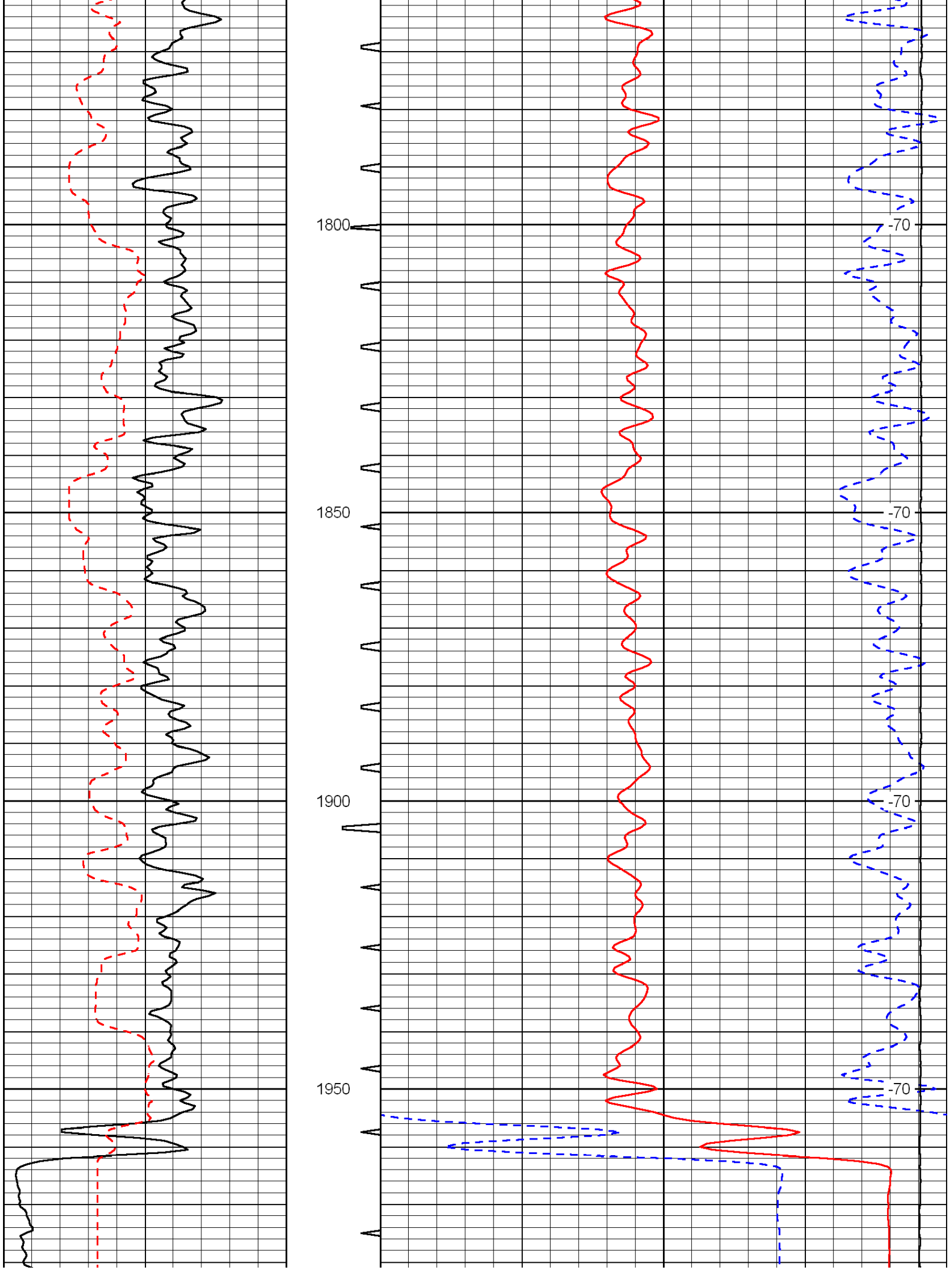

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750
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850
-62
-62
-62

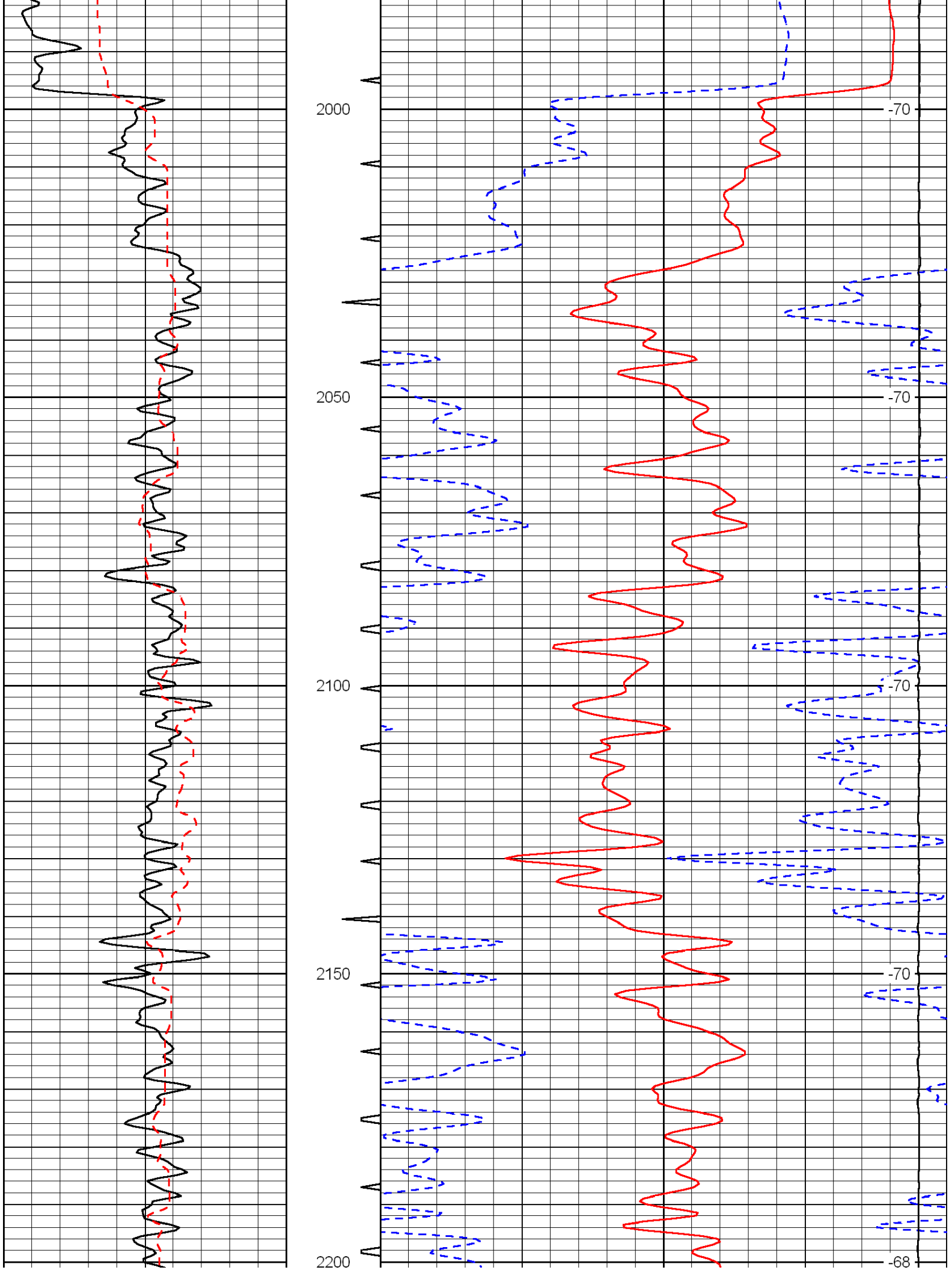

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-62

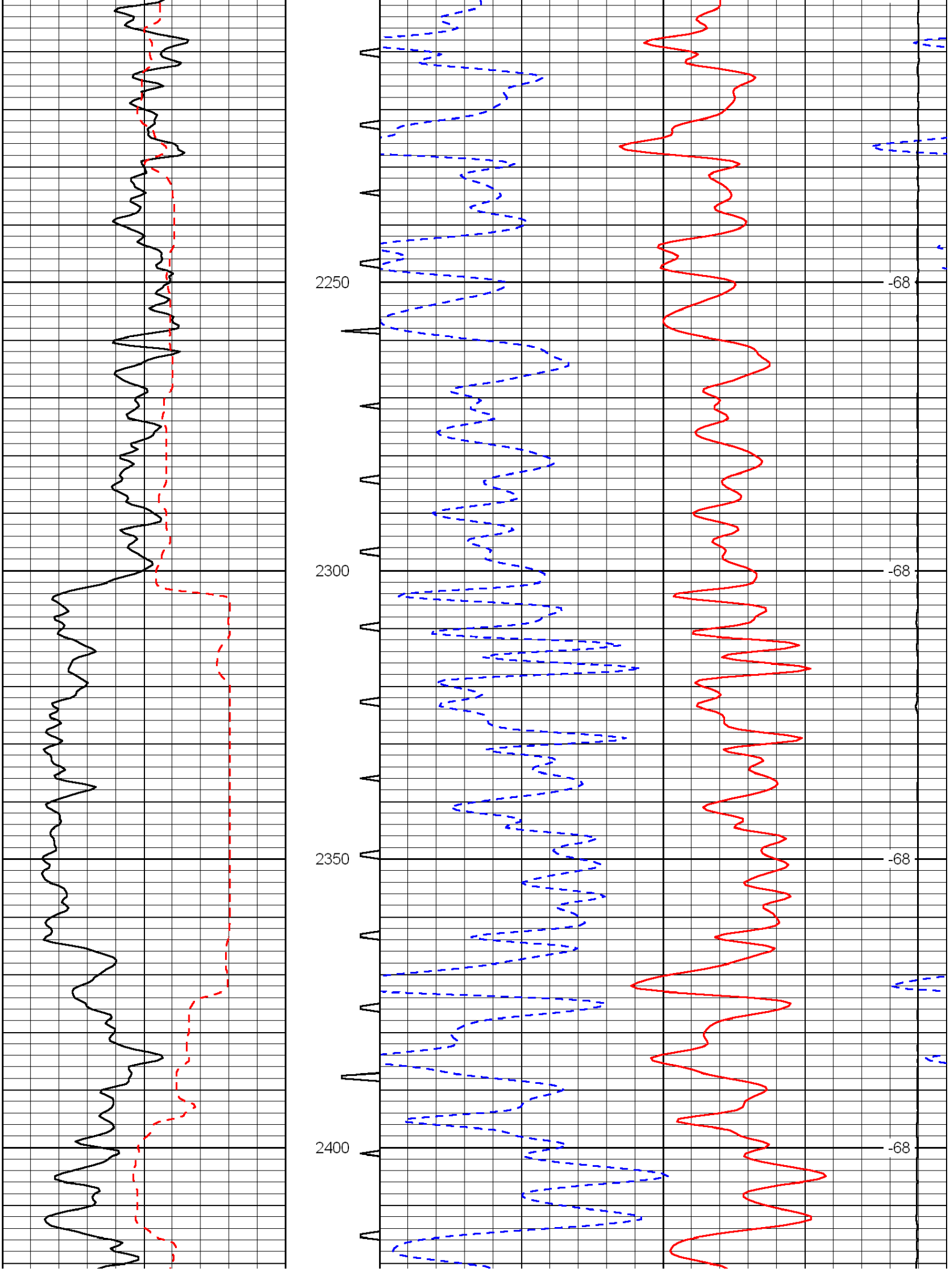

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-59
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1300
-73

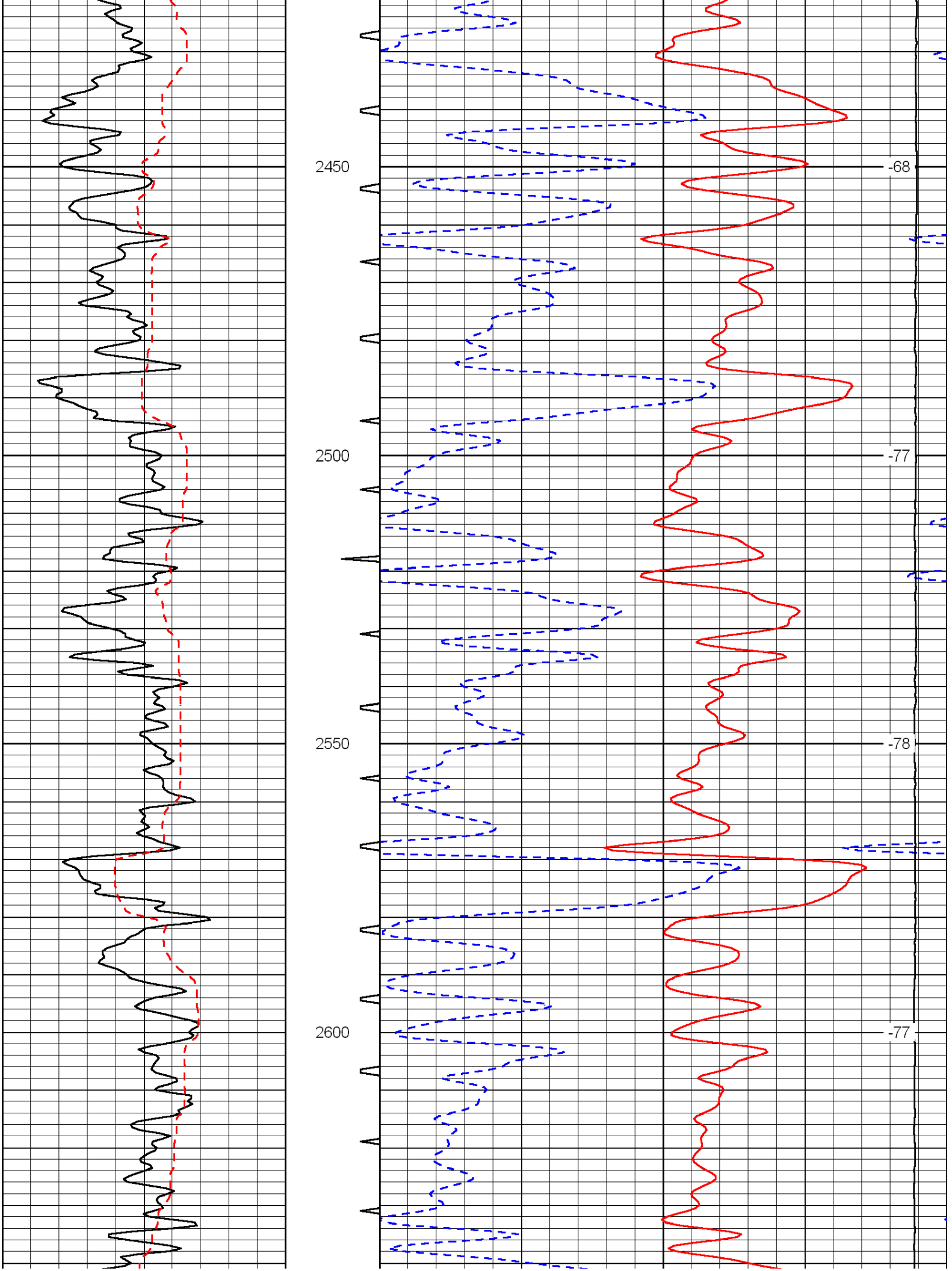

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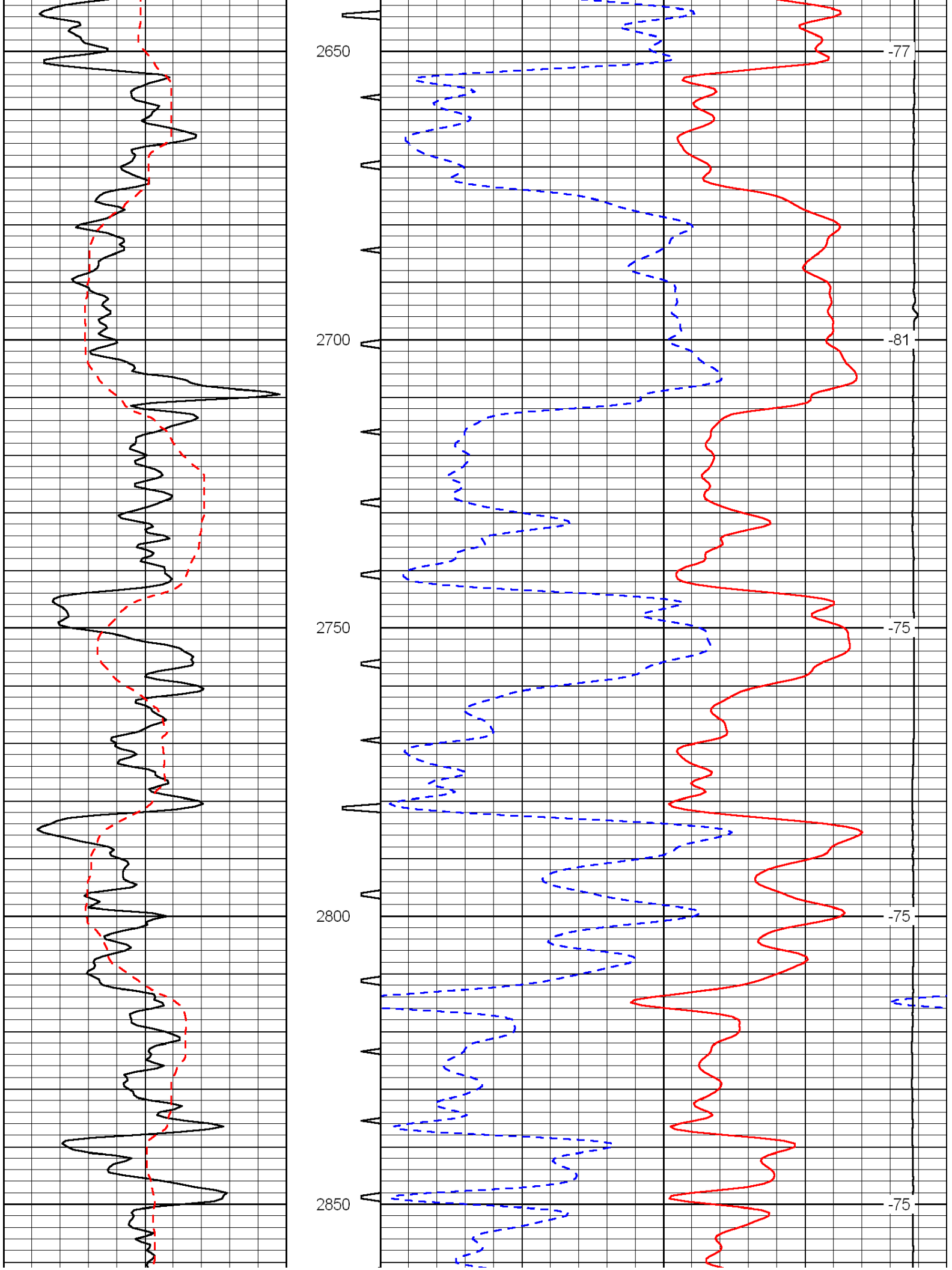

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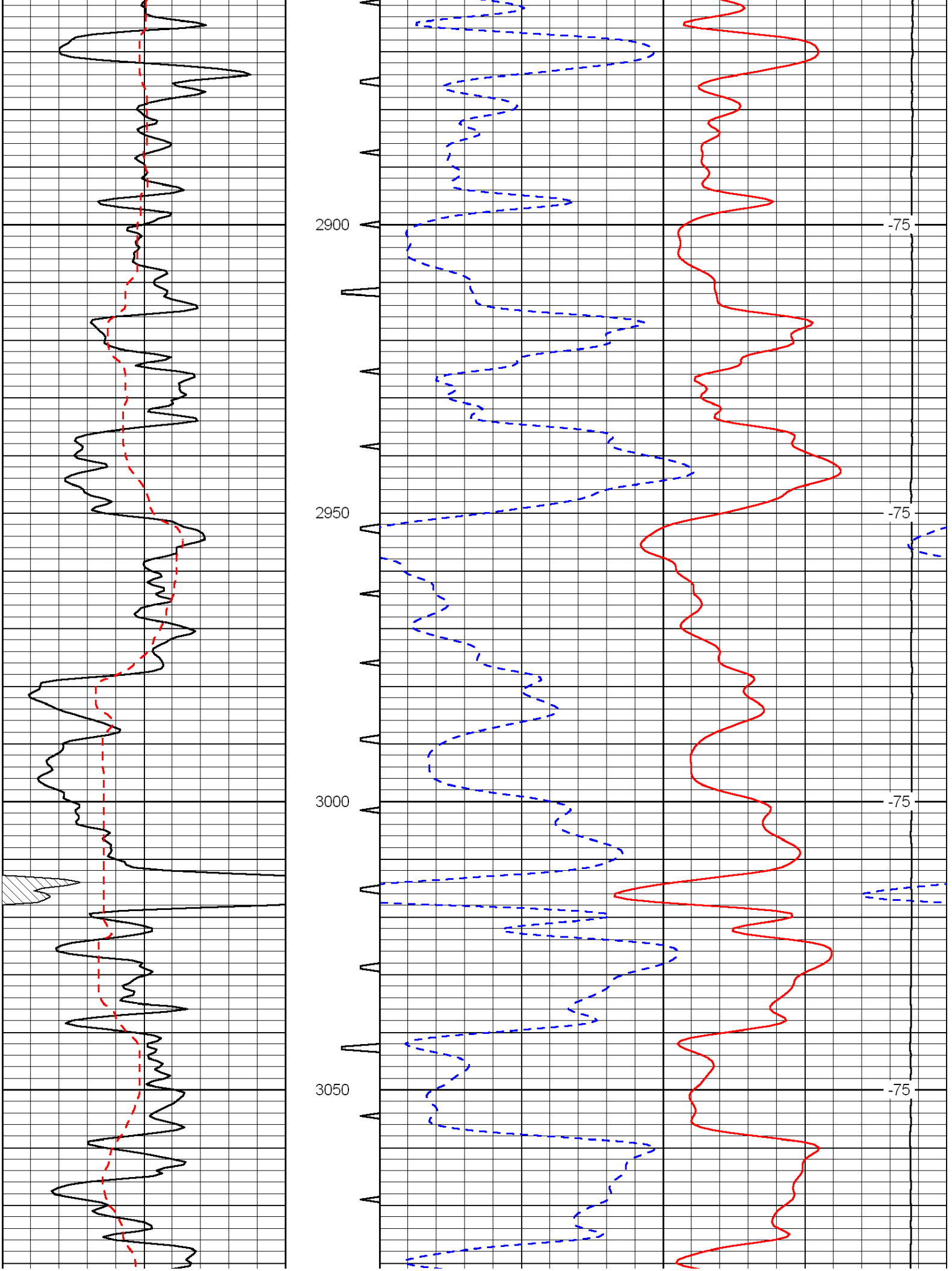

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-70
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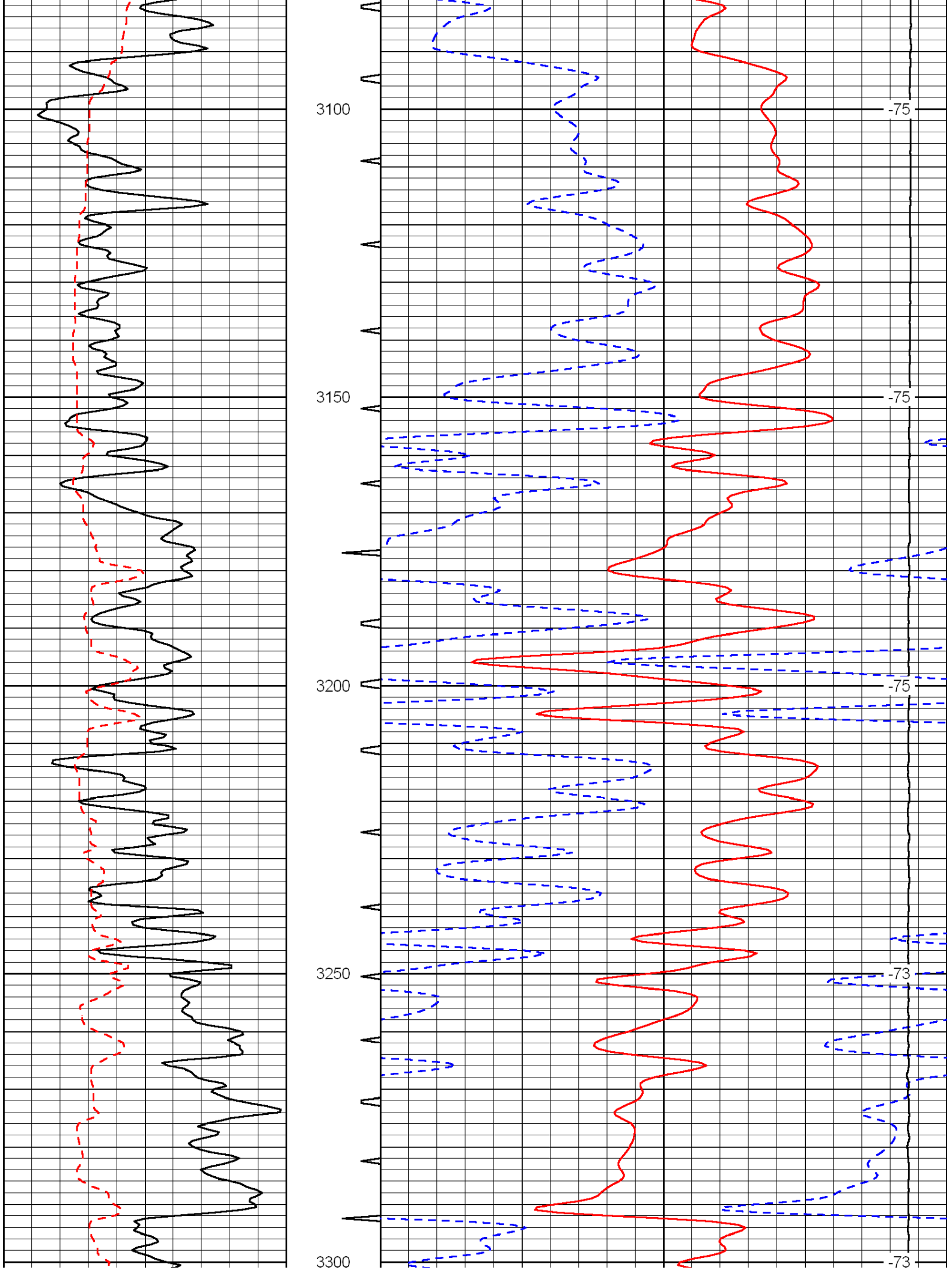

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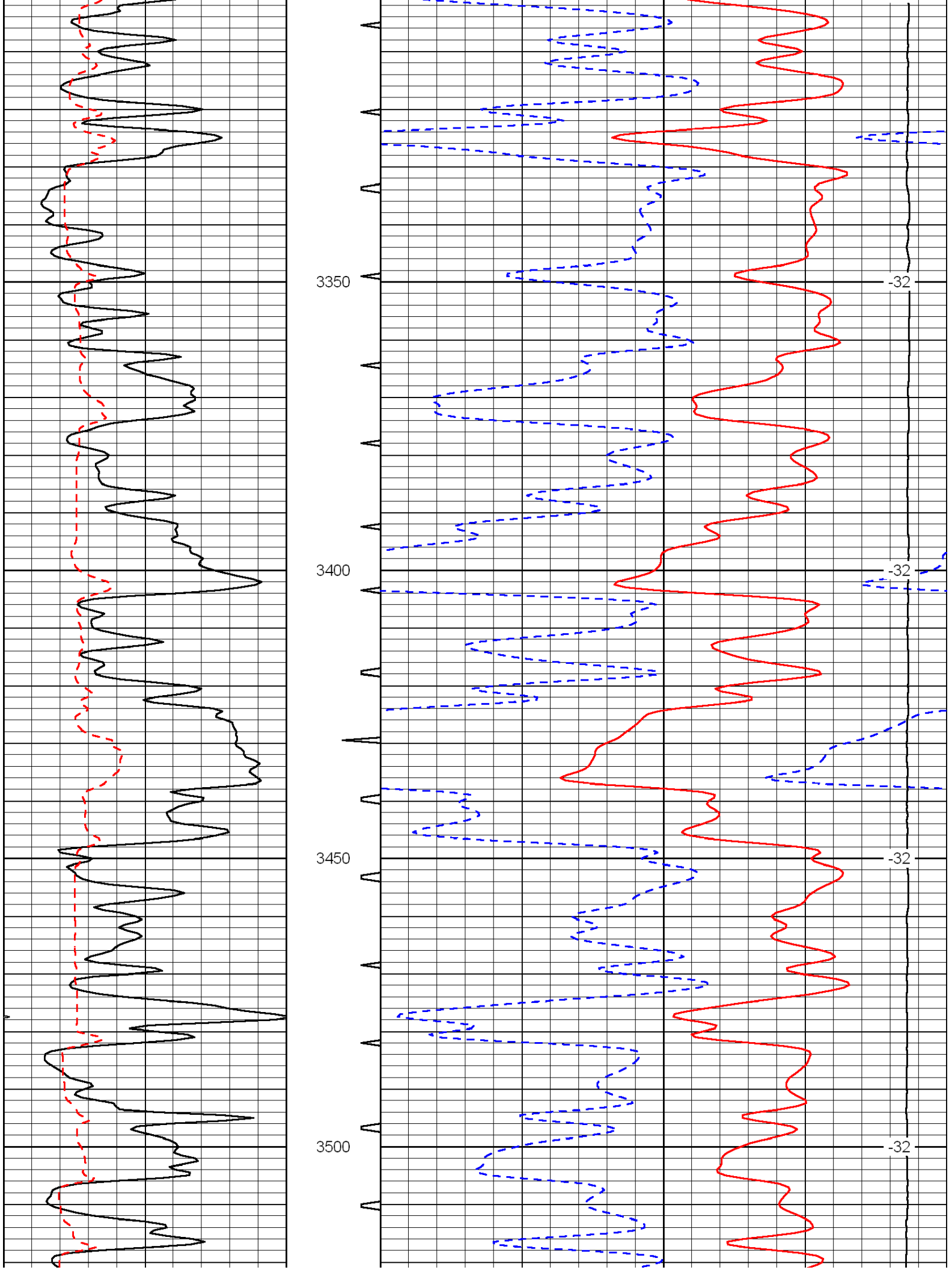

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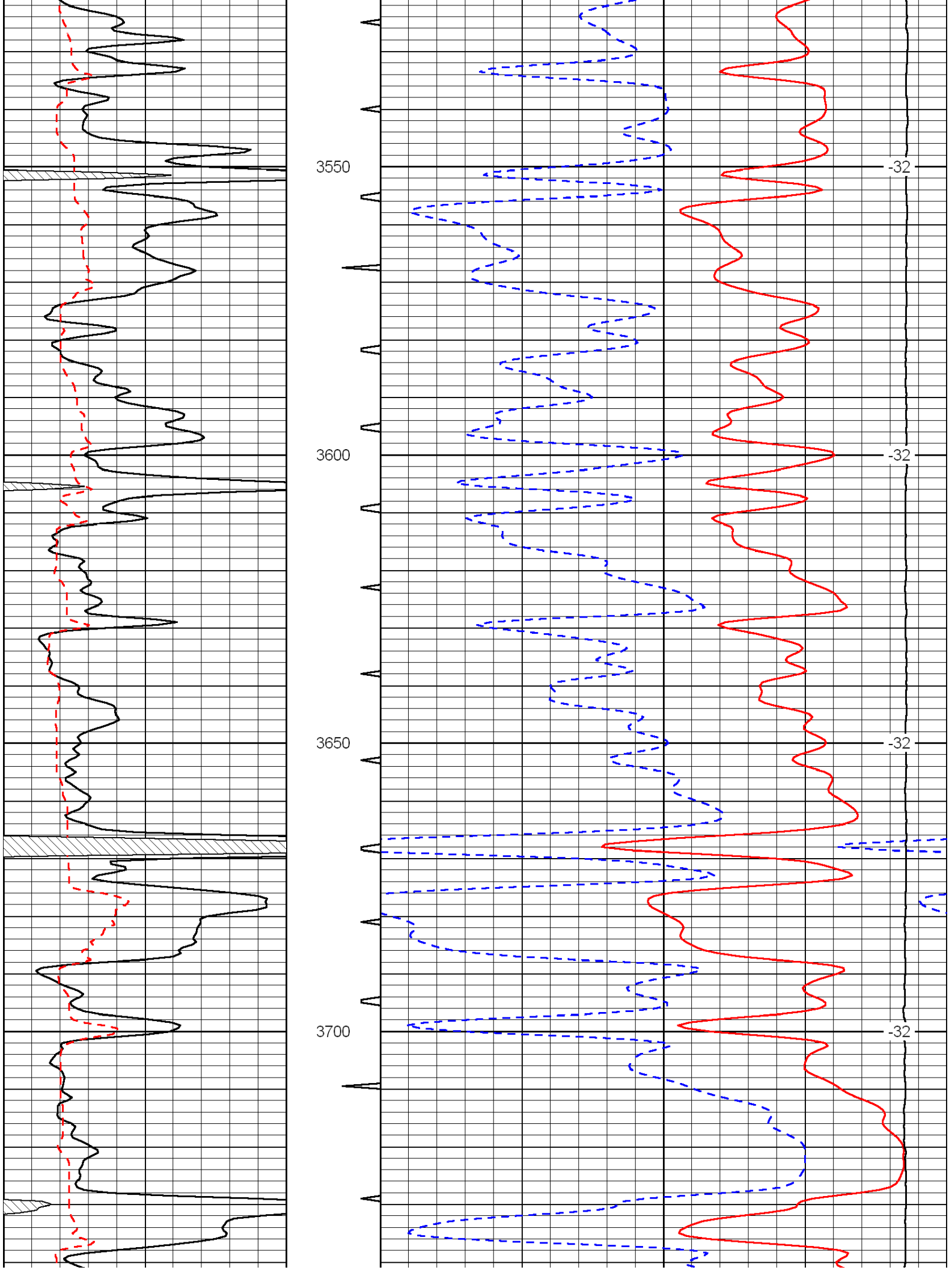

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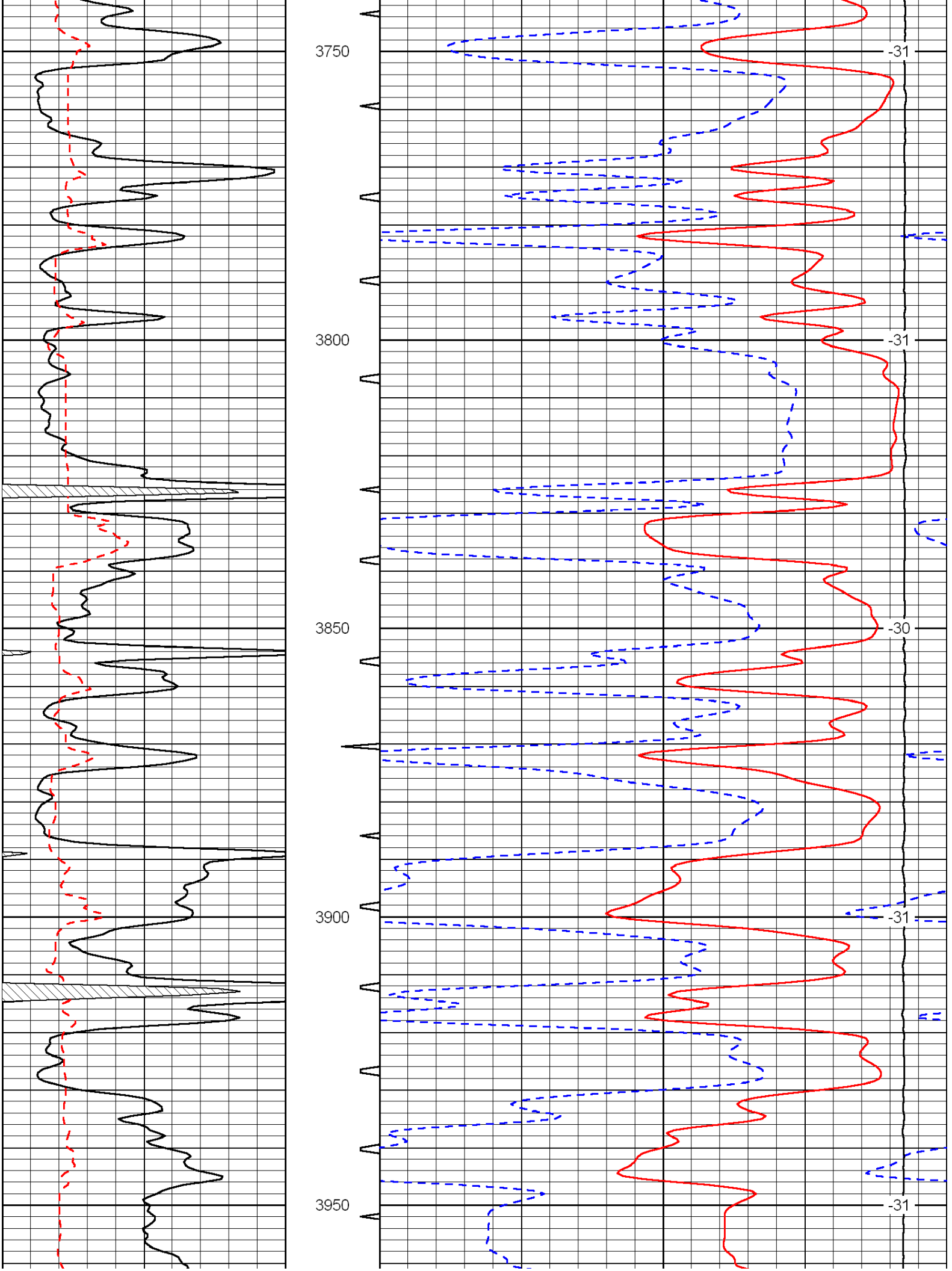

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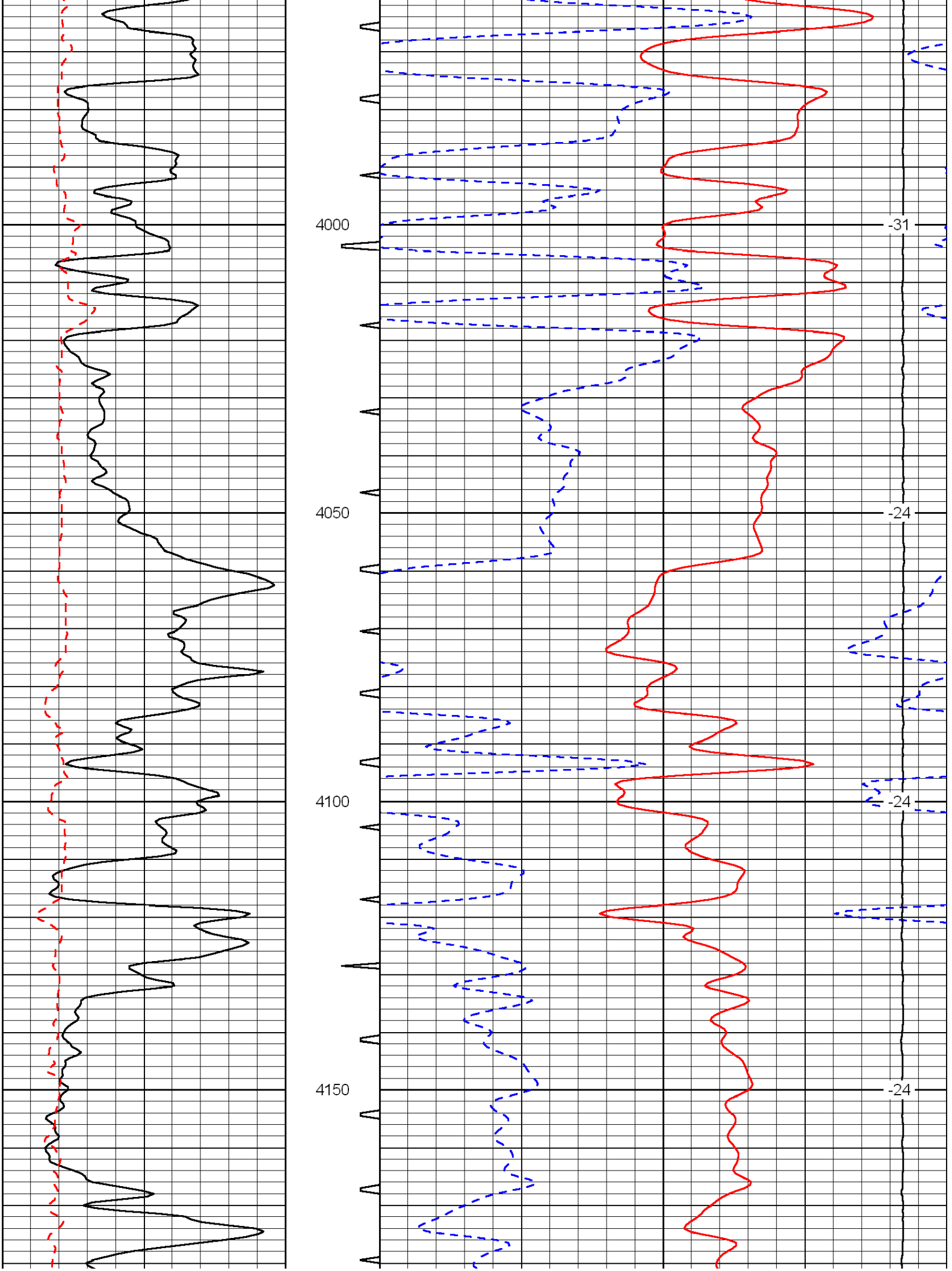

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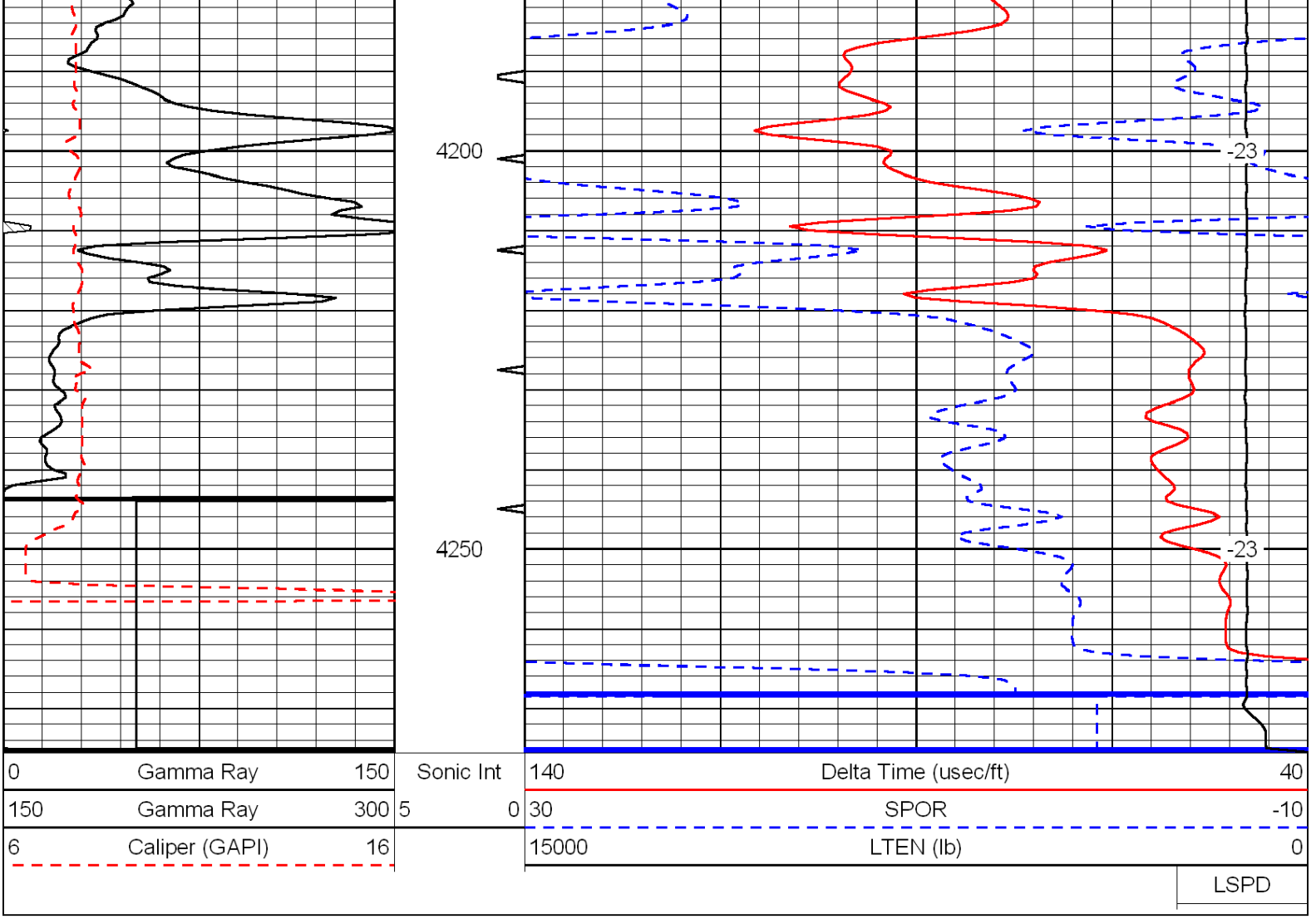

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4000
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