PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No. 15-009-25,844-00-00

Company Bird Dog Oil, LLC

Well Beaver S-Reif #1-22

Field Kraft-Prusa

County Barton State Kansas

Location 250' FSL & 1,460' FEL

Sec: 22 Twp: 16S Rge: 12W

Permanent Datum Ground Level Elevation 1926

Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 1933
D.F.
G.L. 1926

Date	6/1/2013
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3470
Depth Logger	3465
Bottom Logged Interval	3454
Top Logged Interval	400
Type Fluid In Hole	Chemical
Salinity, PPM CL	6800
Density	9.1
Level	Full
Max. Rec. Temp. F	111
Operating Rig Time	4 Hours
Equipment -- Location	108 Hays
Recorded By	J. Long
Witnessed By	Derek Patterson

Borehole Record

Run No.	Bit	From	To
1	12.25	00	435
2	7.875	435	3470

Casing Record

Size	Wgt.	From	To
8.625	24#	00	435

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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

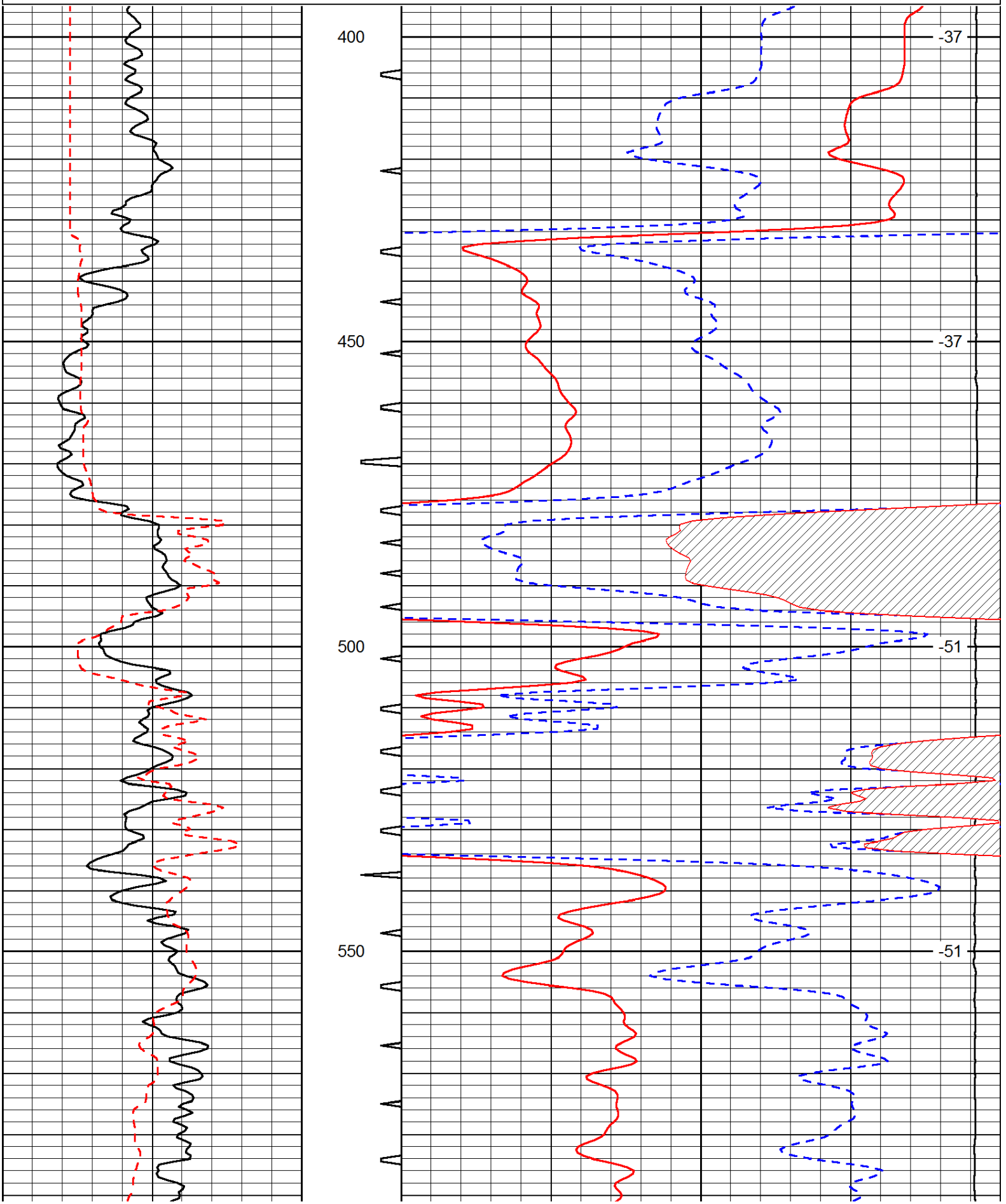
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www.pioneeres.com
785 625 3858

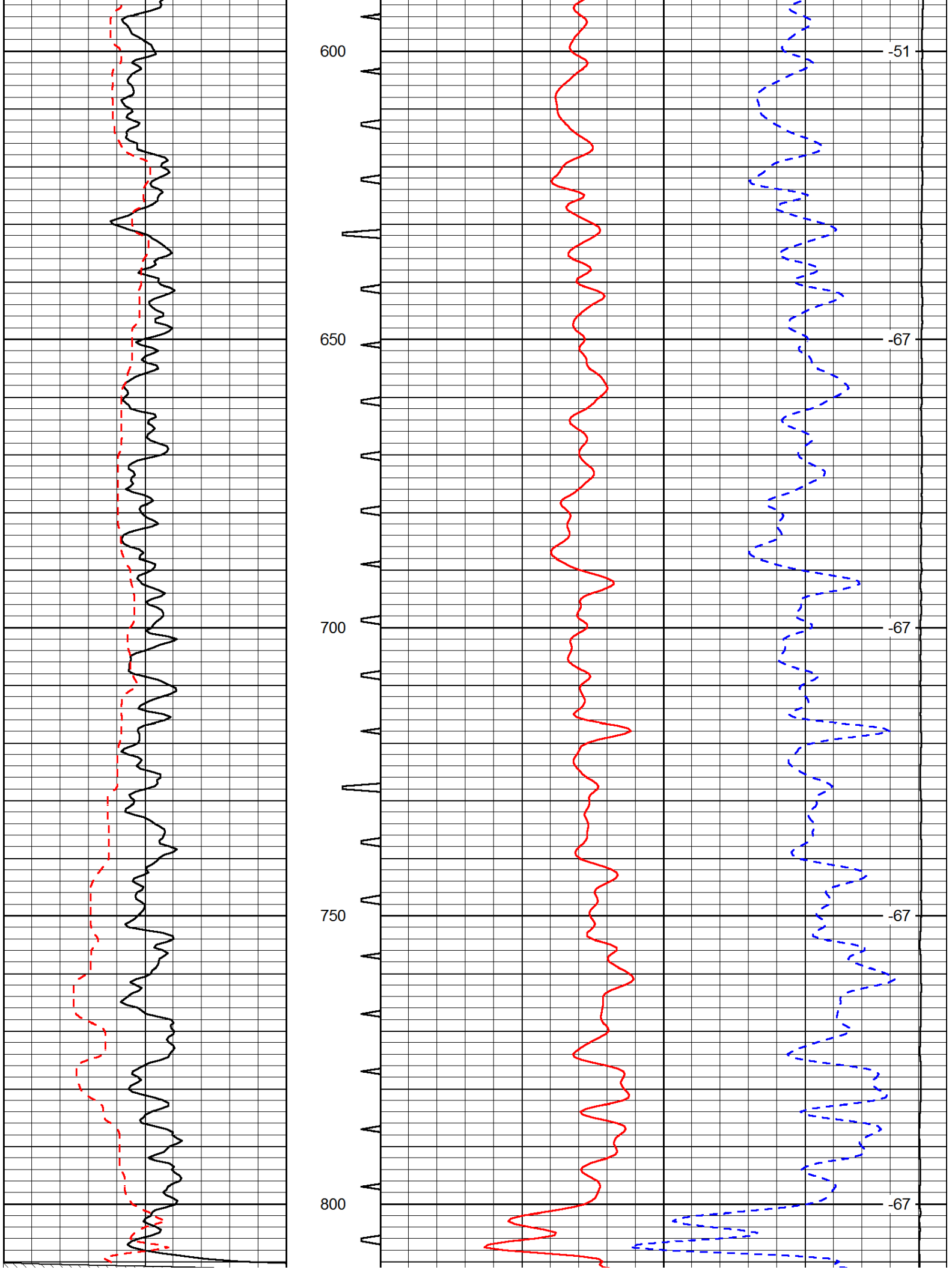
Beaver, 1 1/2 East, North Into

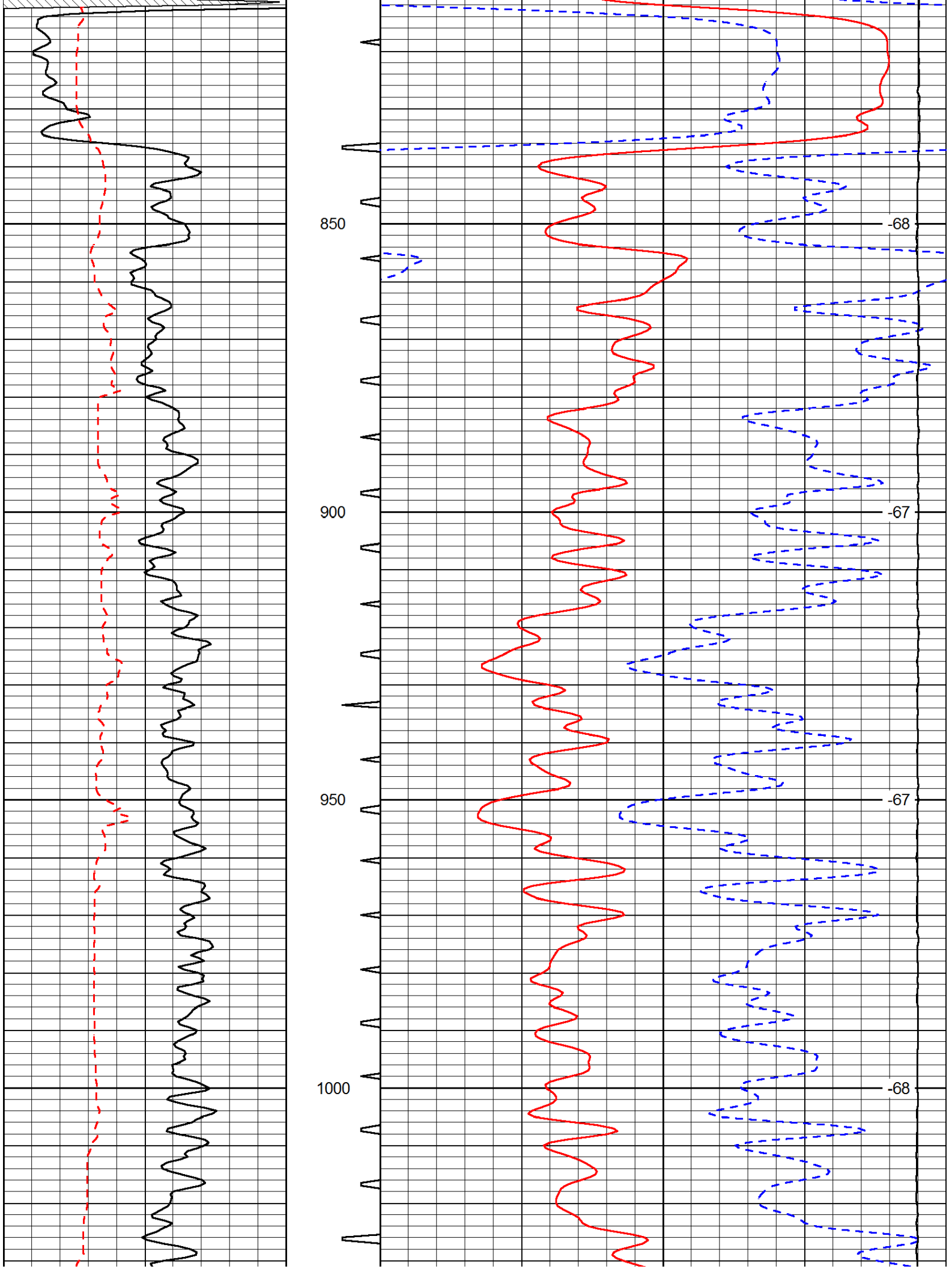
Database File:	c:\warrior\data\bird dog_beaver s-reif #1-22\birddog_beaver_s-reif_1-22hd.db
Dataset Pathname:	dil/birdstck
Presentation Format:	sonic
Dataset Creation:	Sat Jun 01 06:29:48 2013
Charted by:	Depth in Feet scaled 1:240

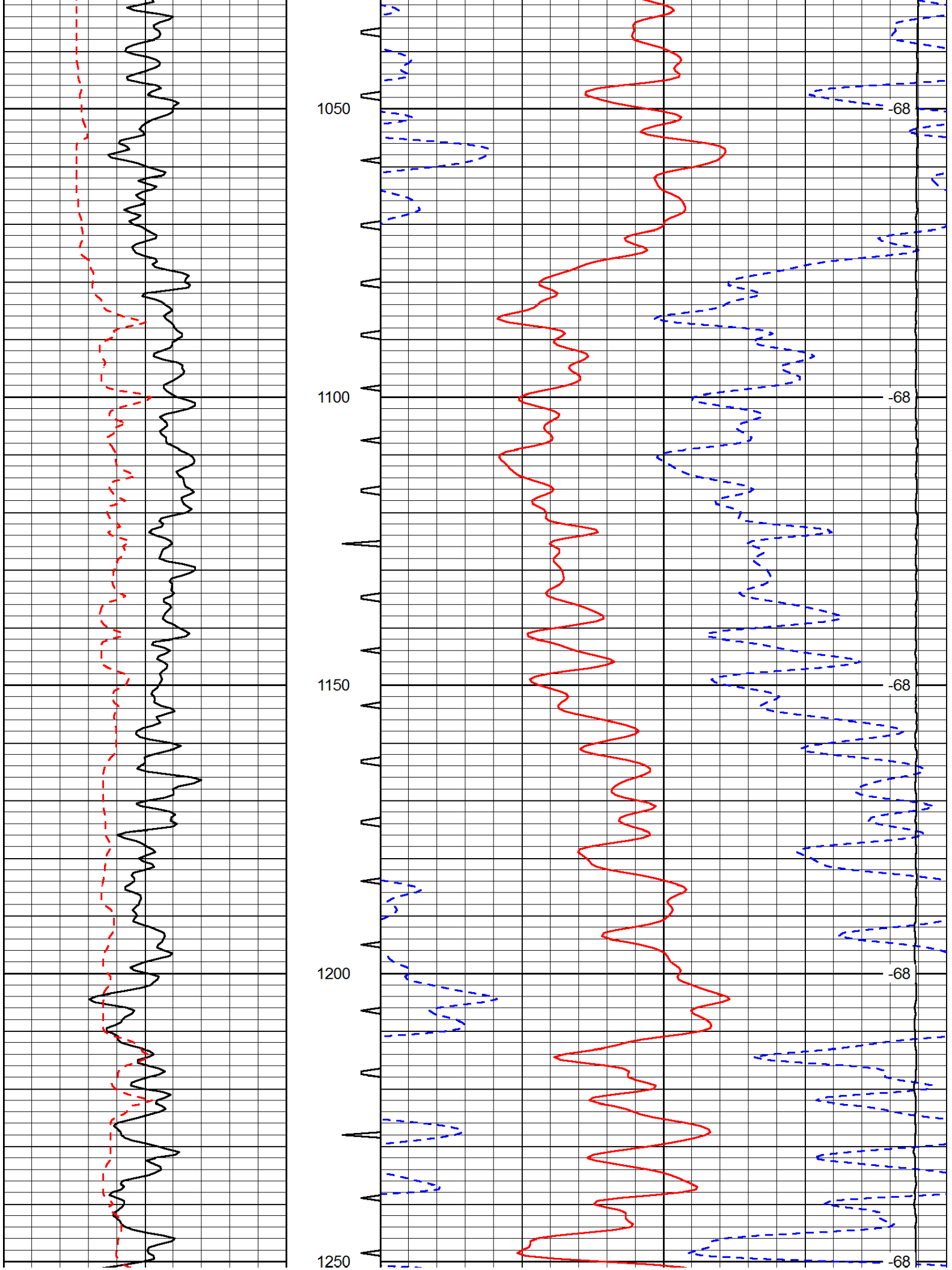
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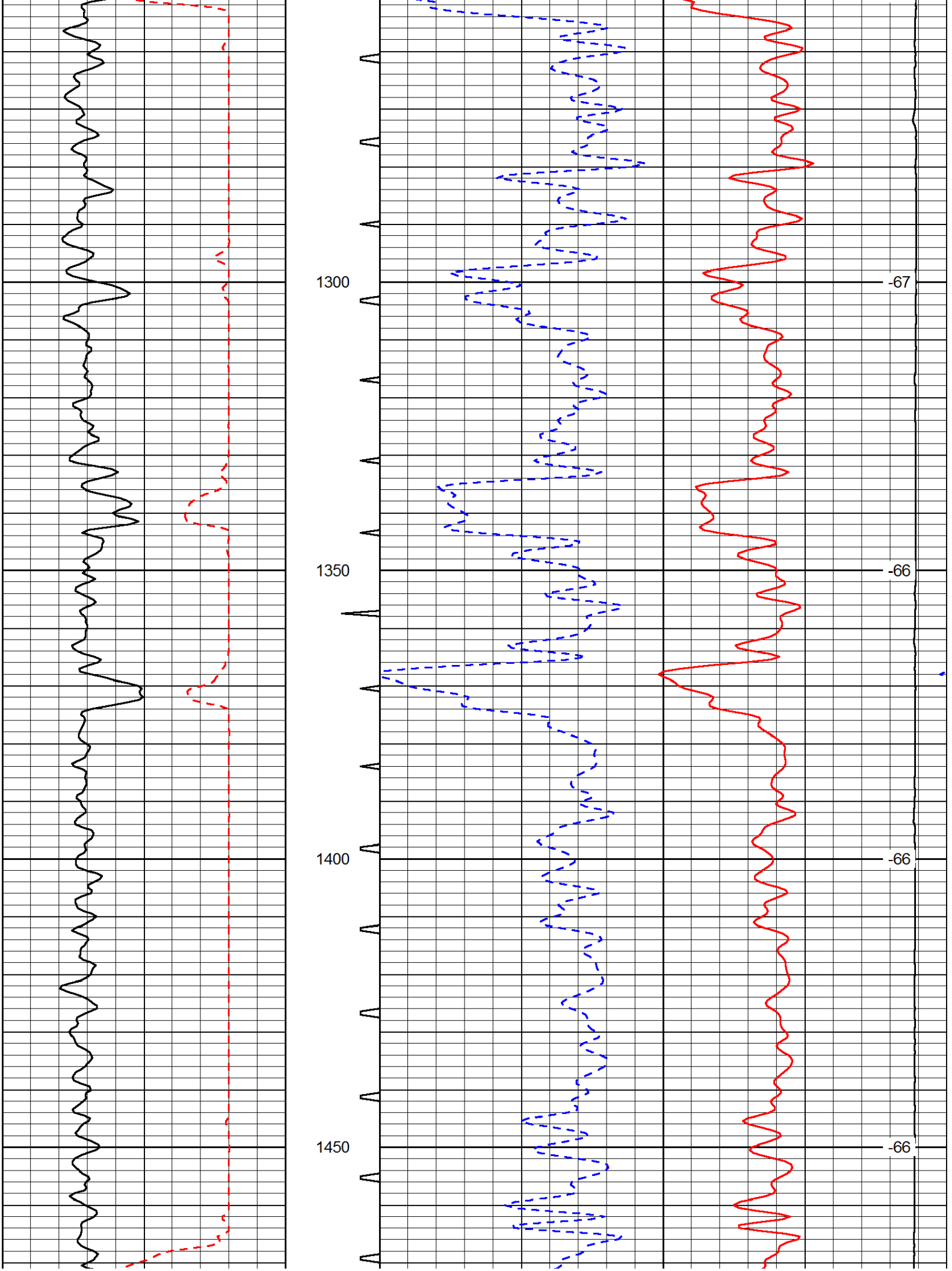
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5 0	30	SPOR	-10	
6	Caliper (GAPI)	16		15000	LTEN (lb)	0	
							LSPD

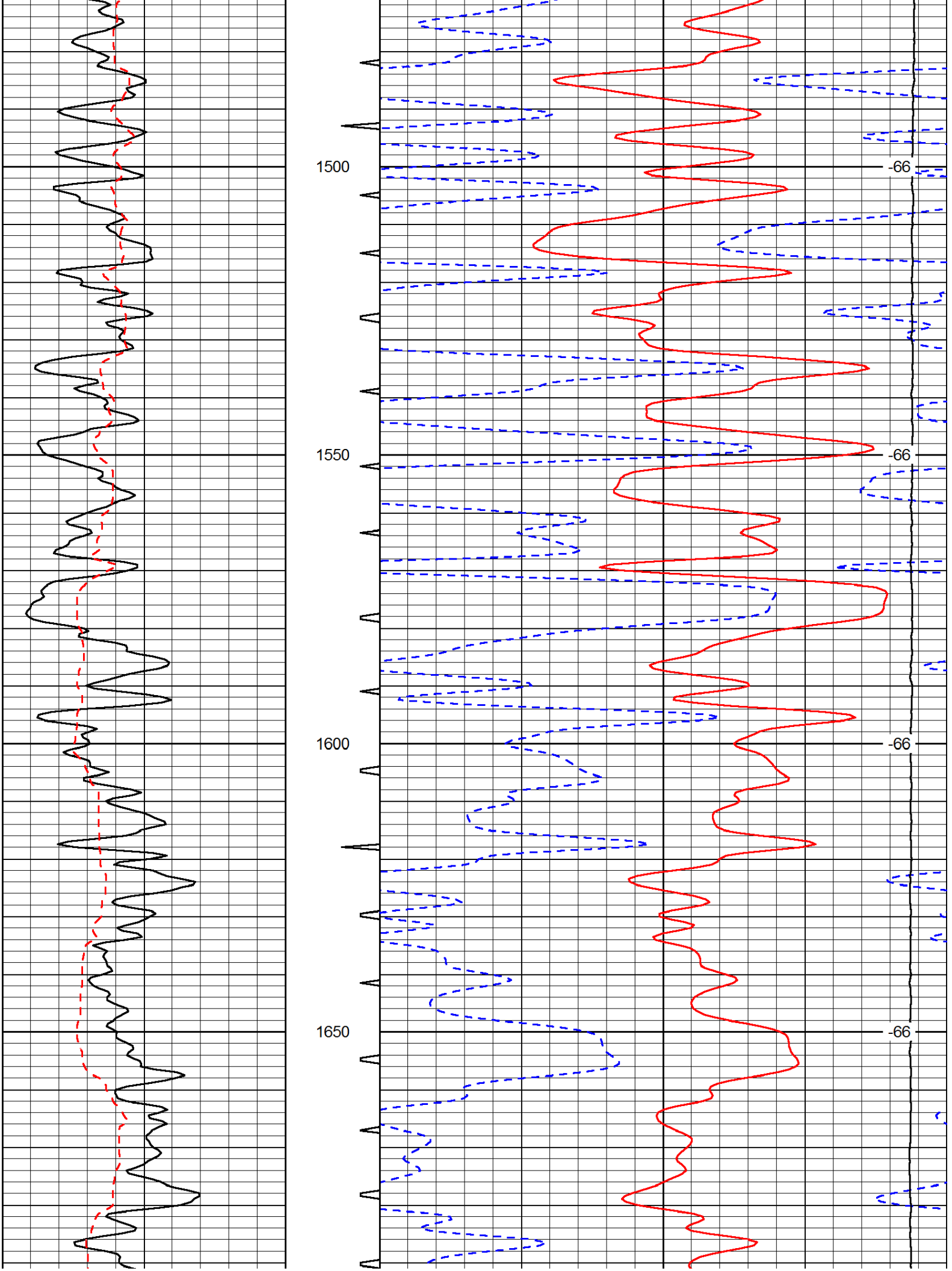


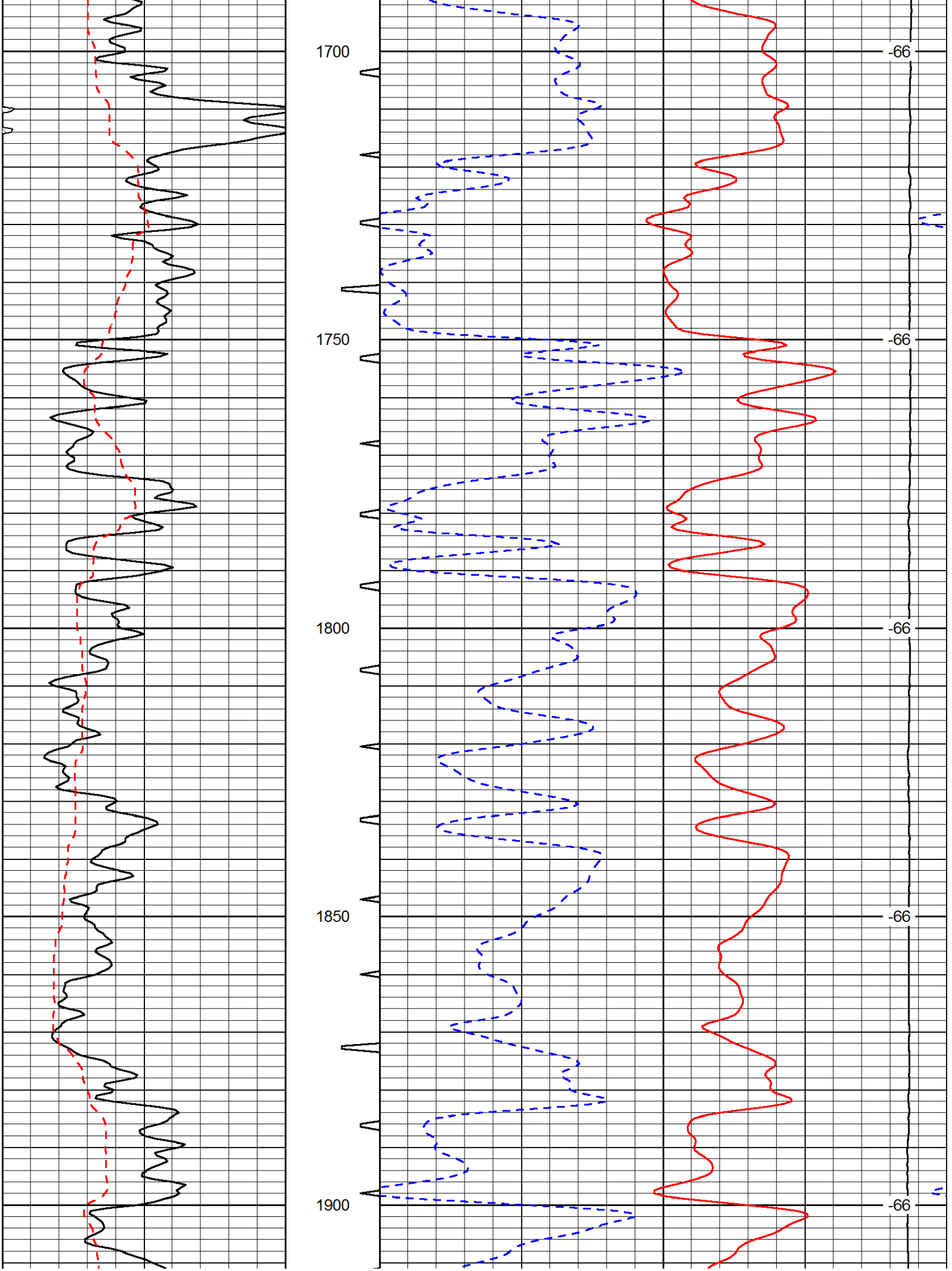

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650
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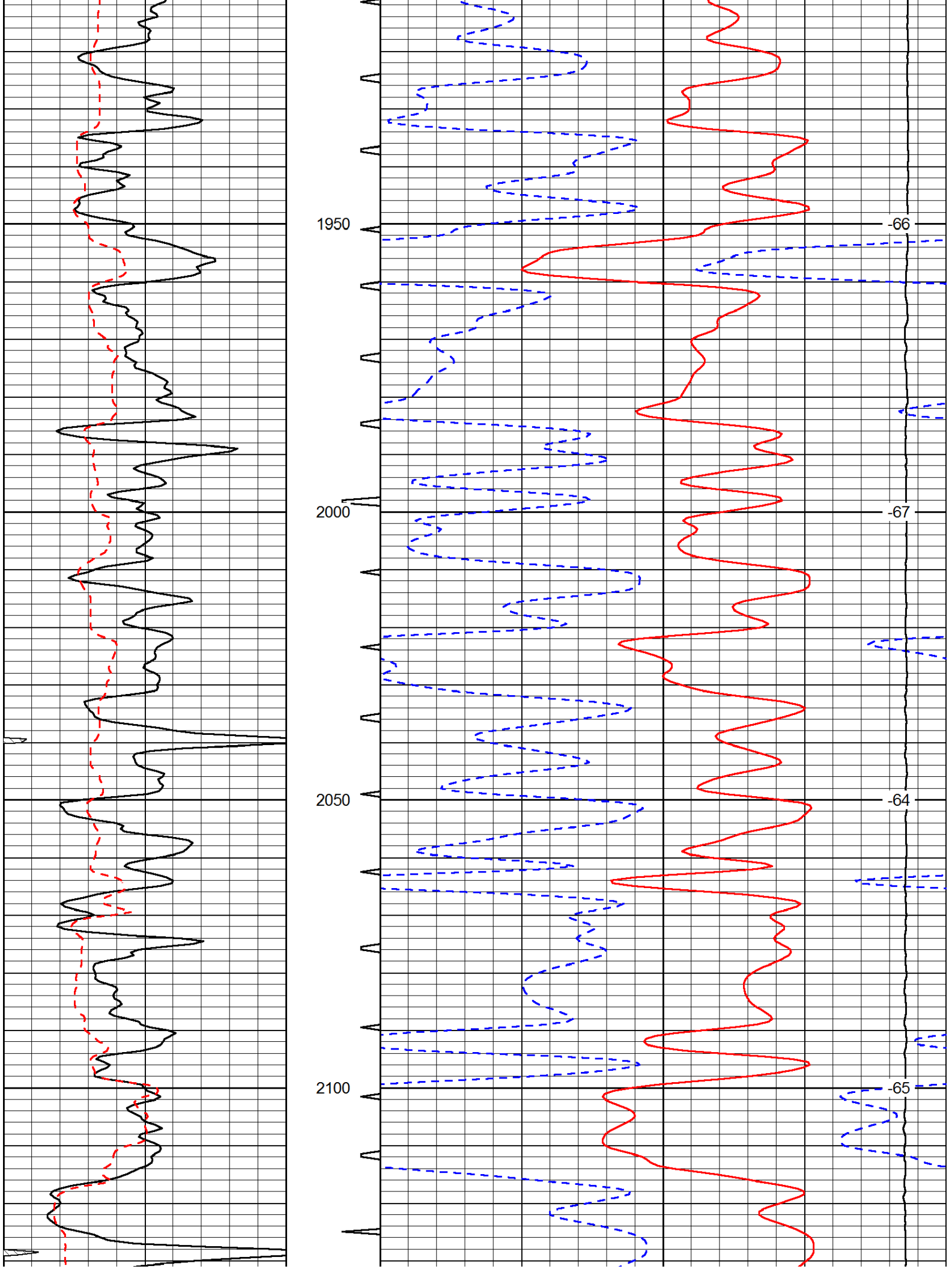

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950
1000
-68
-67
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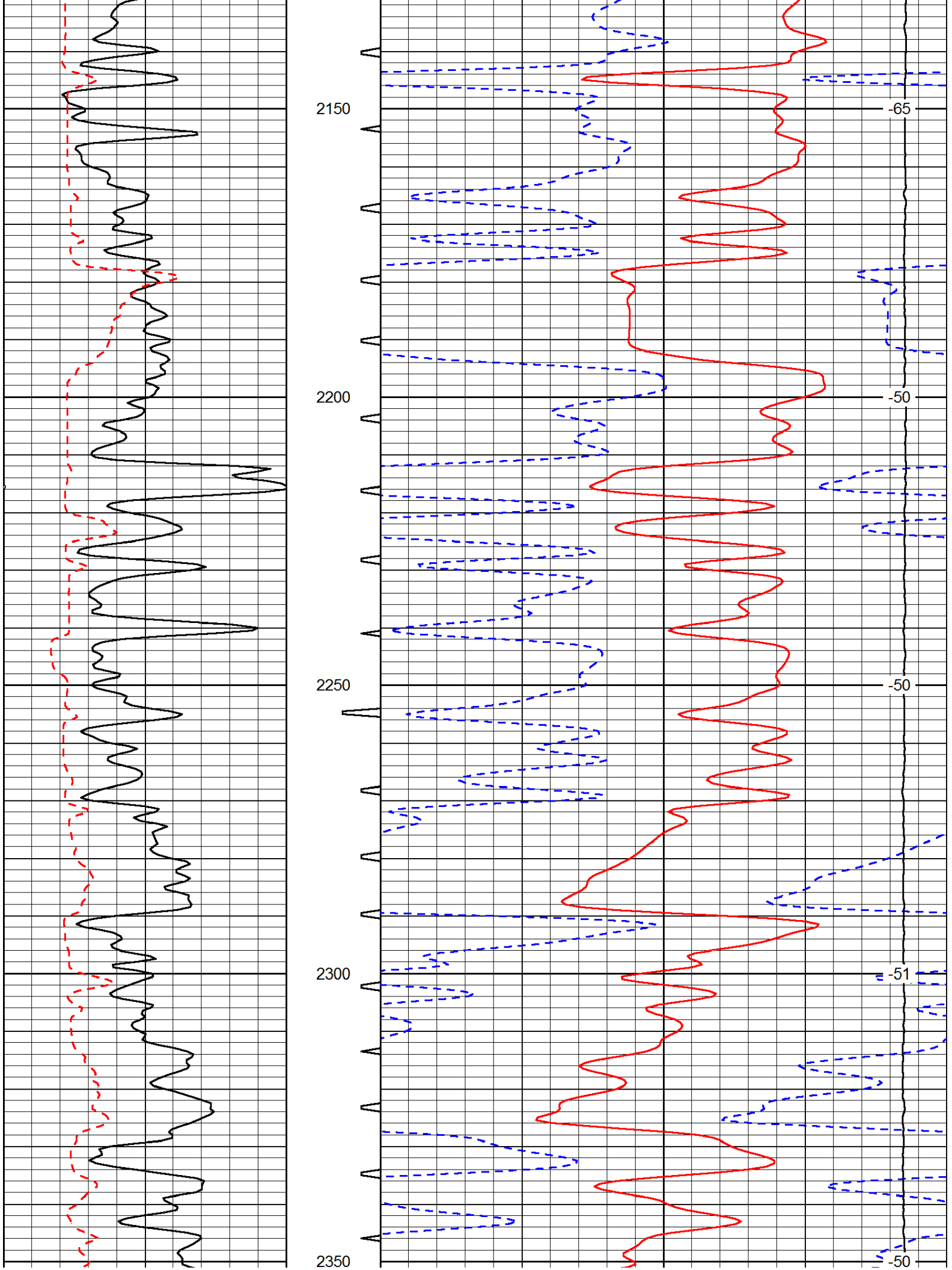

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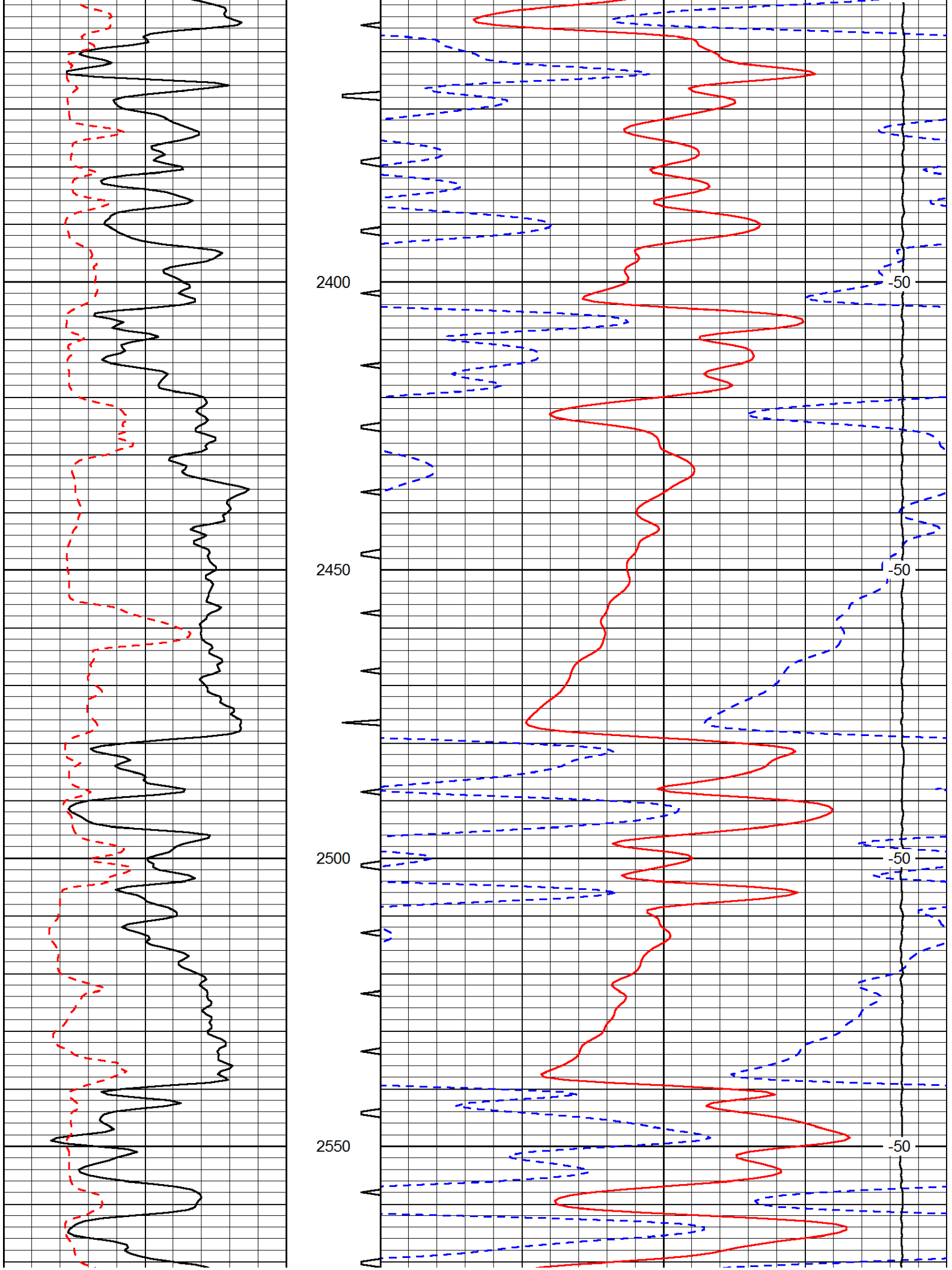

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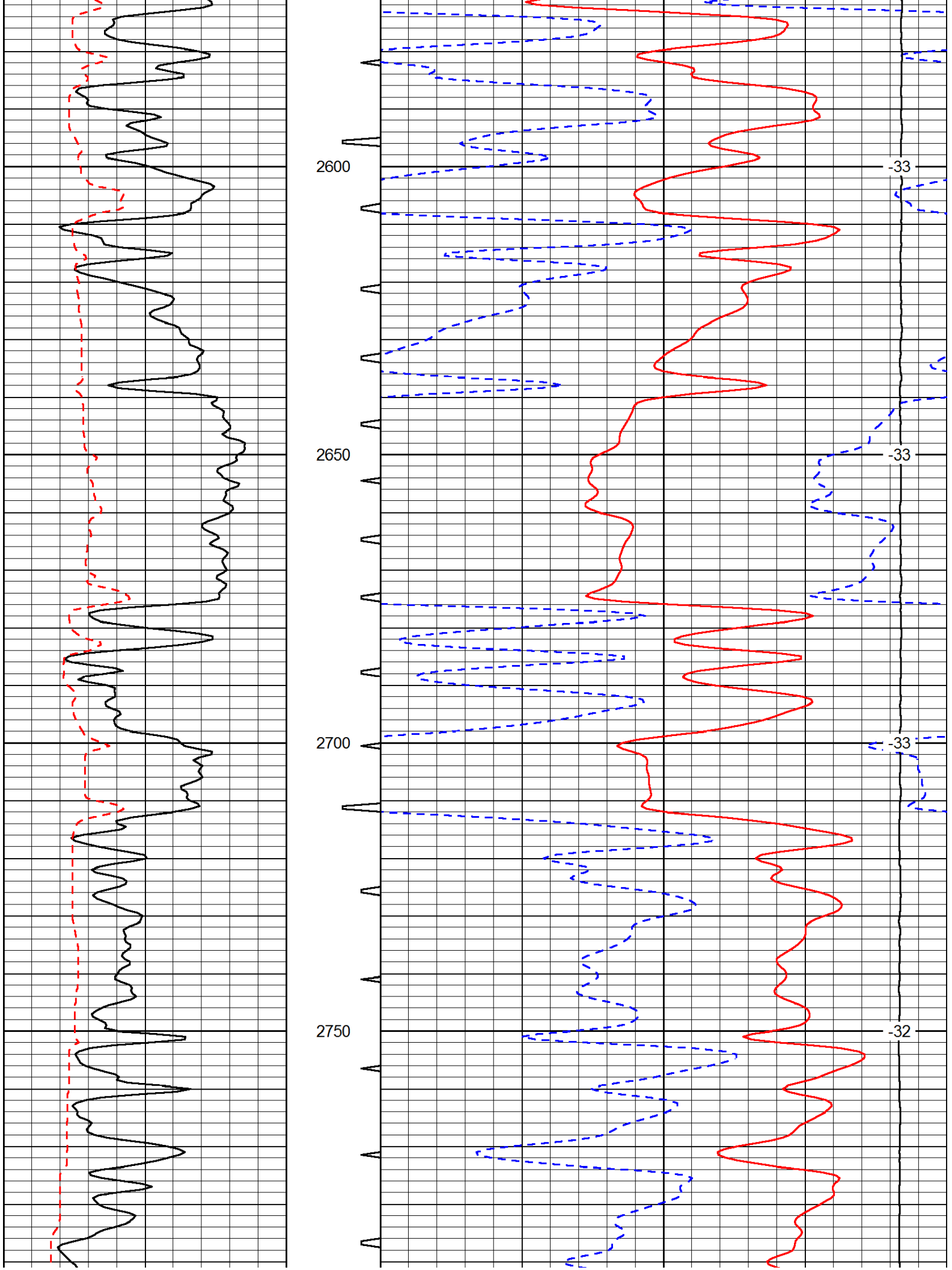

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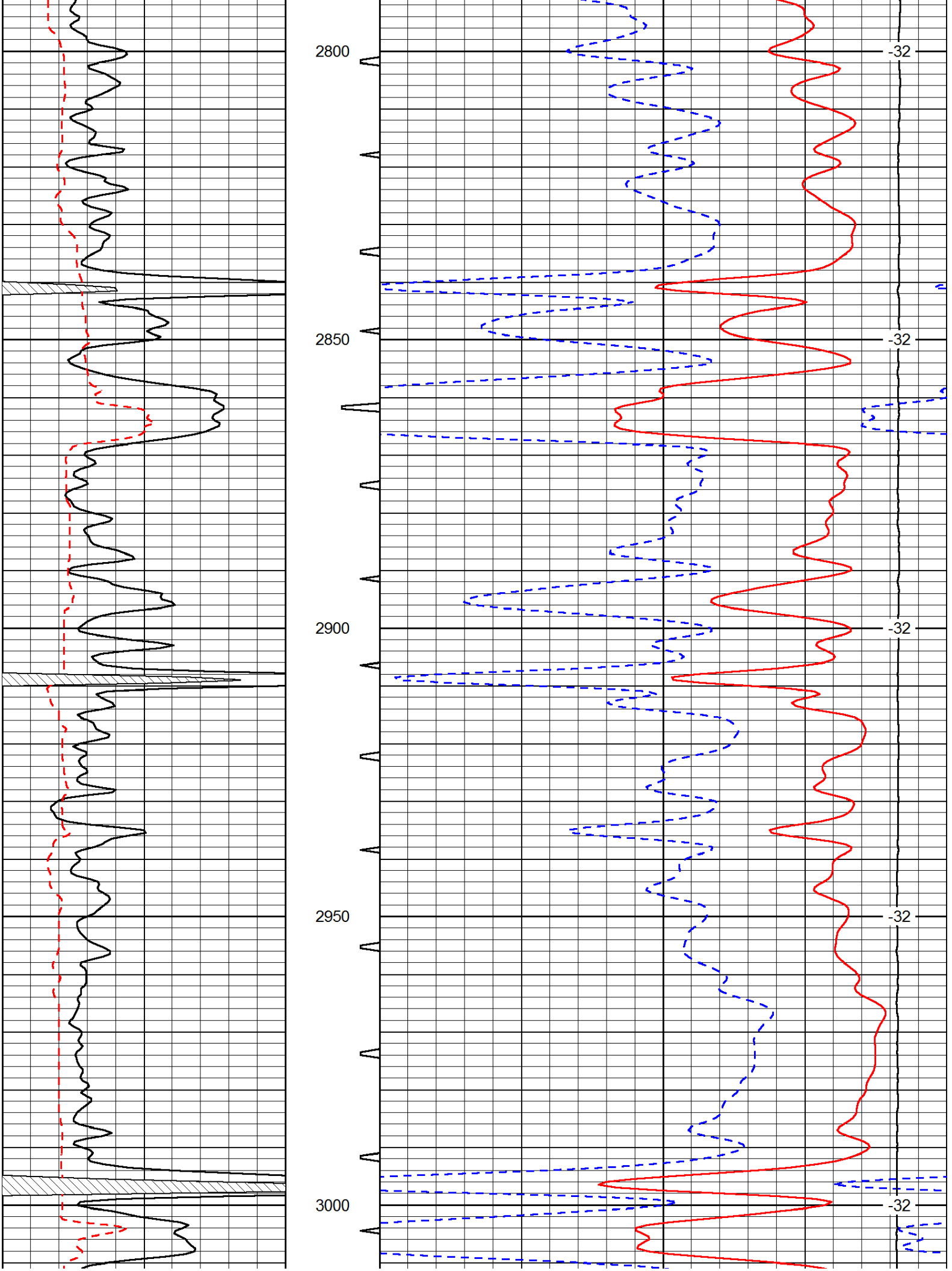

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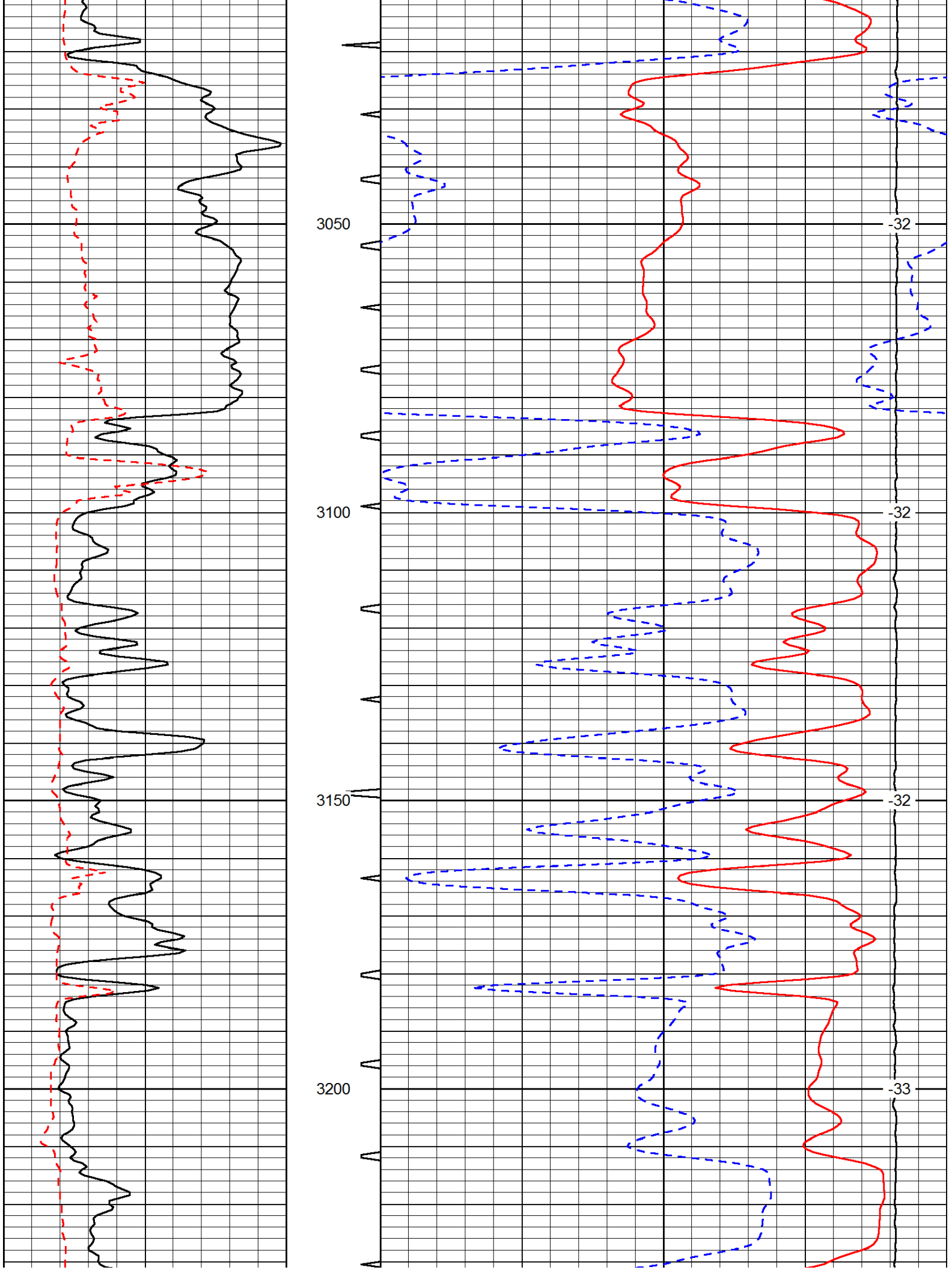

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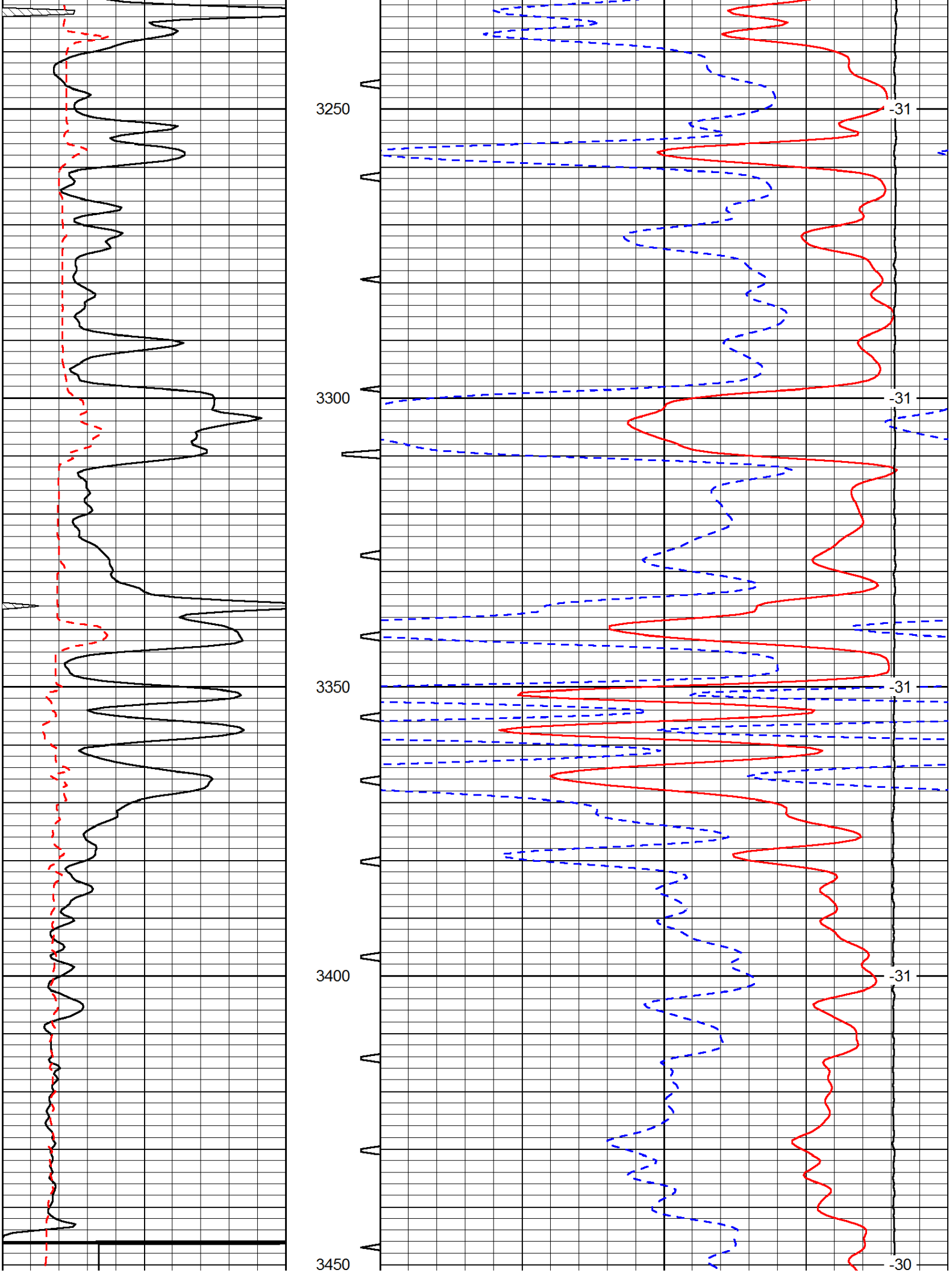

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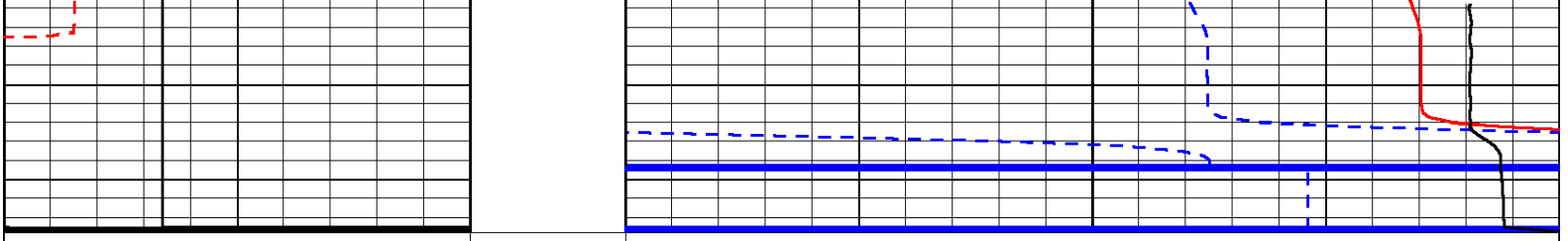

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