LOG-TECH

DIGITAL LOG (785) 625-3858

Borehole Compensated Sonic Log

API No. 15-023-21,210-00-00

Company Murfin Drilling Company, Inc.
Well Raile No.11-32
Field Raile
County Cheyenne State Kansas

Location W/2 NE NE NE
330' FNL & 600' FEL
Sec: 32 Twp: 2 Rge: 41W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 3671
D.F.
G.L. 3666

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Date	2/10/2009
Run Number	Two
Type Log	BHC Sonic
Depth Driller	5100
Depth Logger	5104
Bottom Logged Interval	5093
Top Logged Interval	300
Type Fluid In Hole	Chemical
Salinity, PPM CL	900
Density	9.2
Level	Full
Max. Rec. Temp. F	127
Operating Rig Time	4 1/2 Hours
Equipment -- Location	15 Hays
Recorded By	C. Desaire
Witnessed By	Brad Rine

Elevation 3666

Borehole Record

Run No	Bit	From	To
1	12.25	00	342
2	7.875	342	5100

Casing Record

Size	Wgt.	From	To
8.625	24#	00	342

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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.

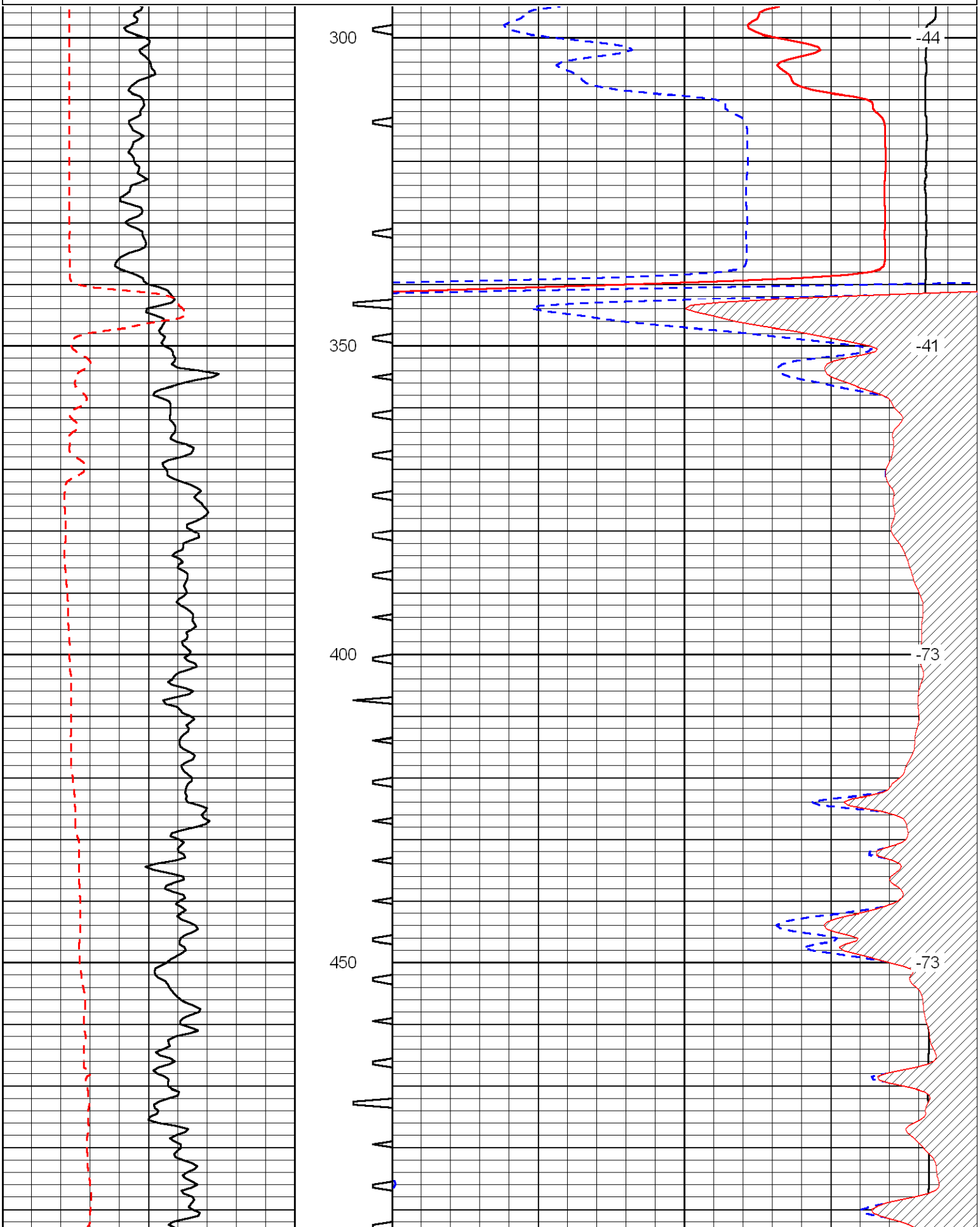
Comments

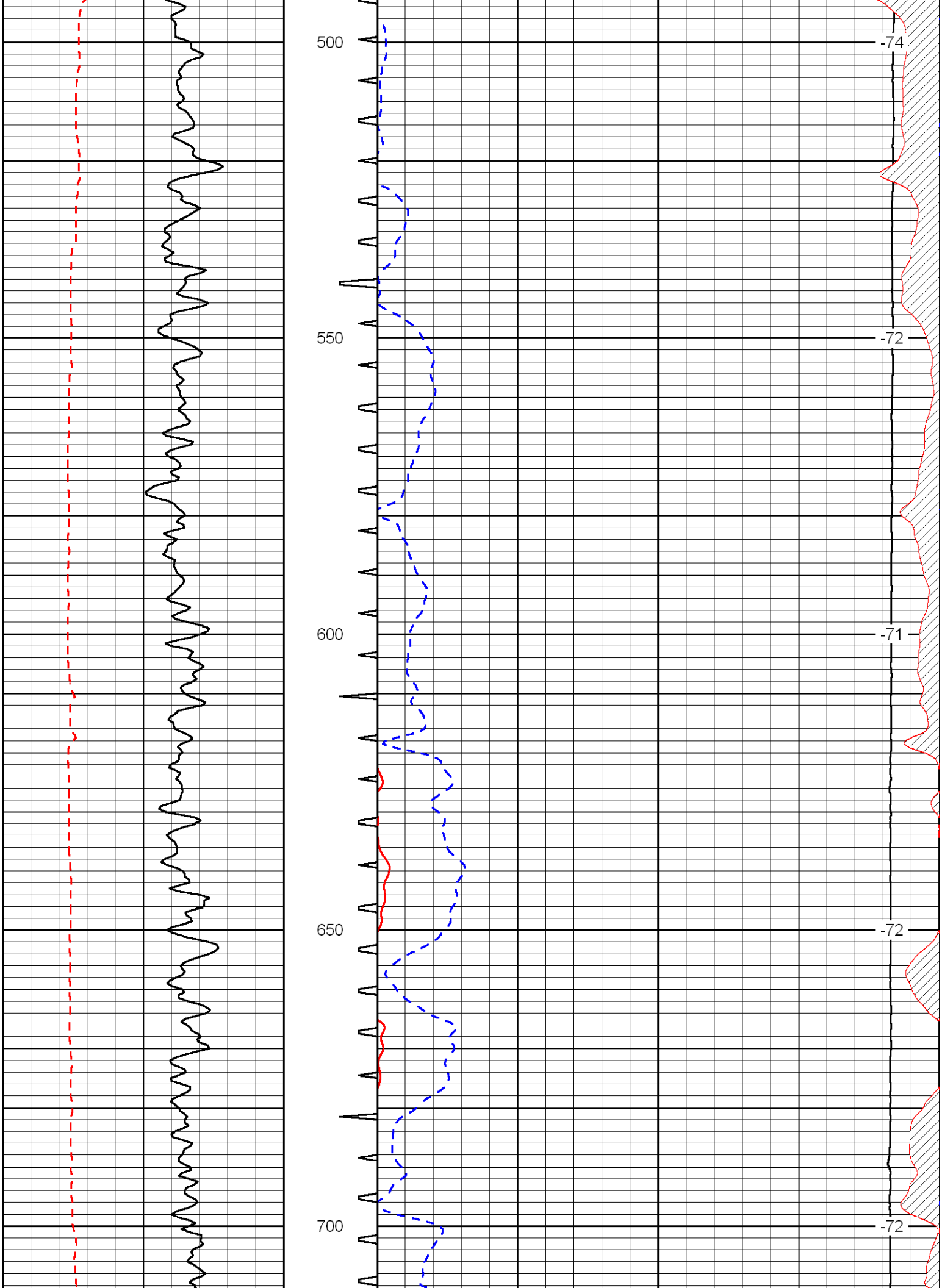
Thank you for using Log-Tech, Inc.
(785) 625-3858

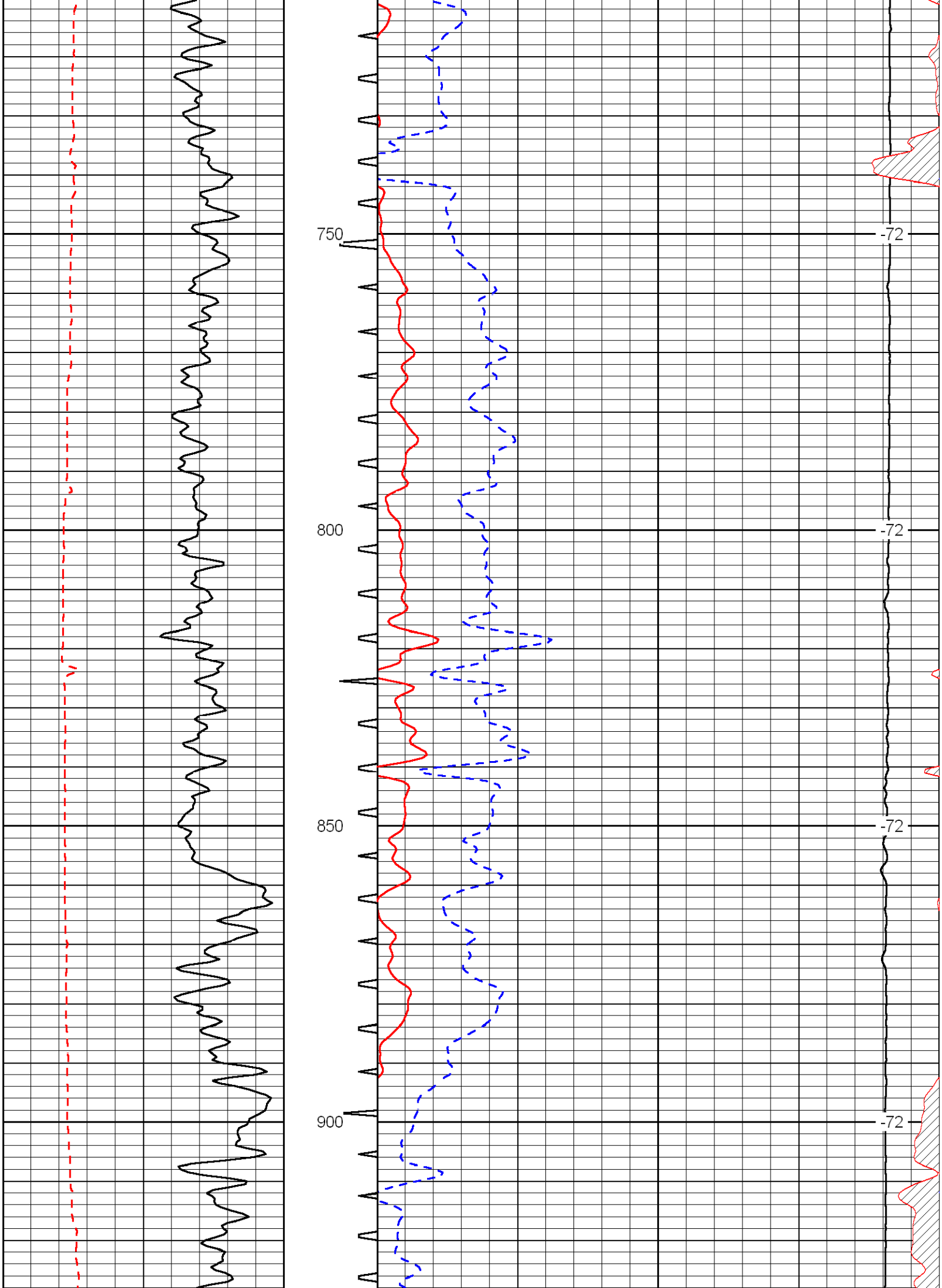
St. Francis
N to Curves, 3 1/2 W, 1/2 S, 1/4 W

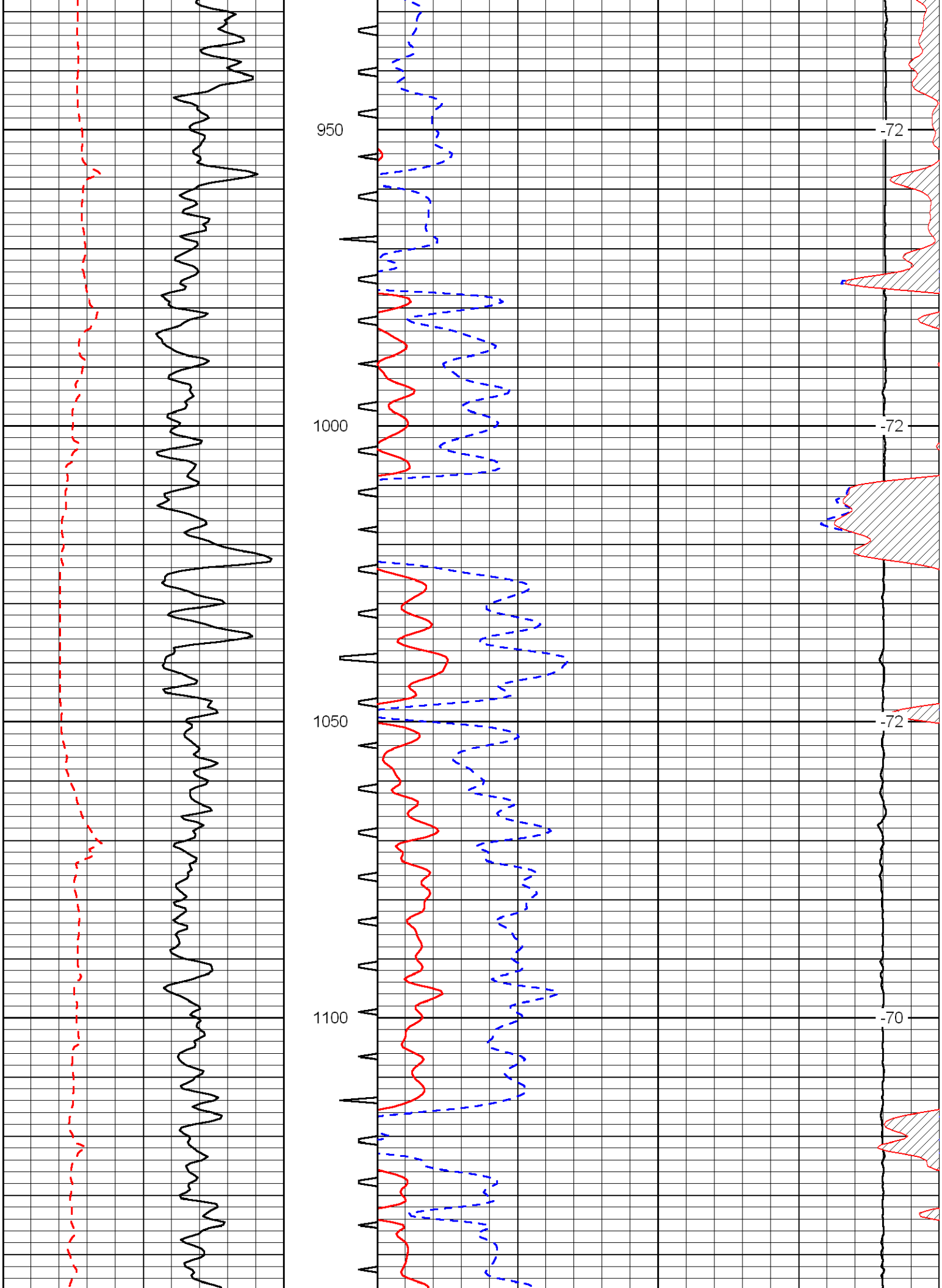
Database File:	c:\warrior\data\murfin_raile no.11-32\murfin2hd.db
Dataset Pathname:	dil/mrfnstk
Presentation Format:	sonic
Dataset Creation:	Tue Feb 10 07:04:33 2009
Charted by:	Depth in Feet scaled 1:240

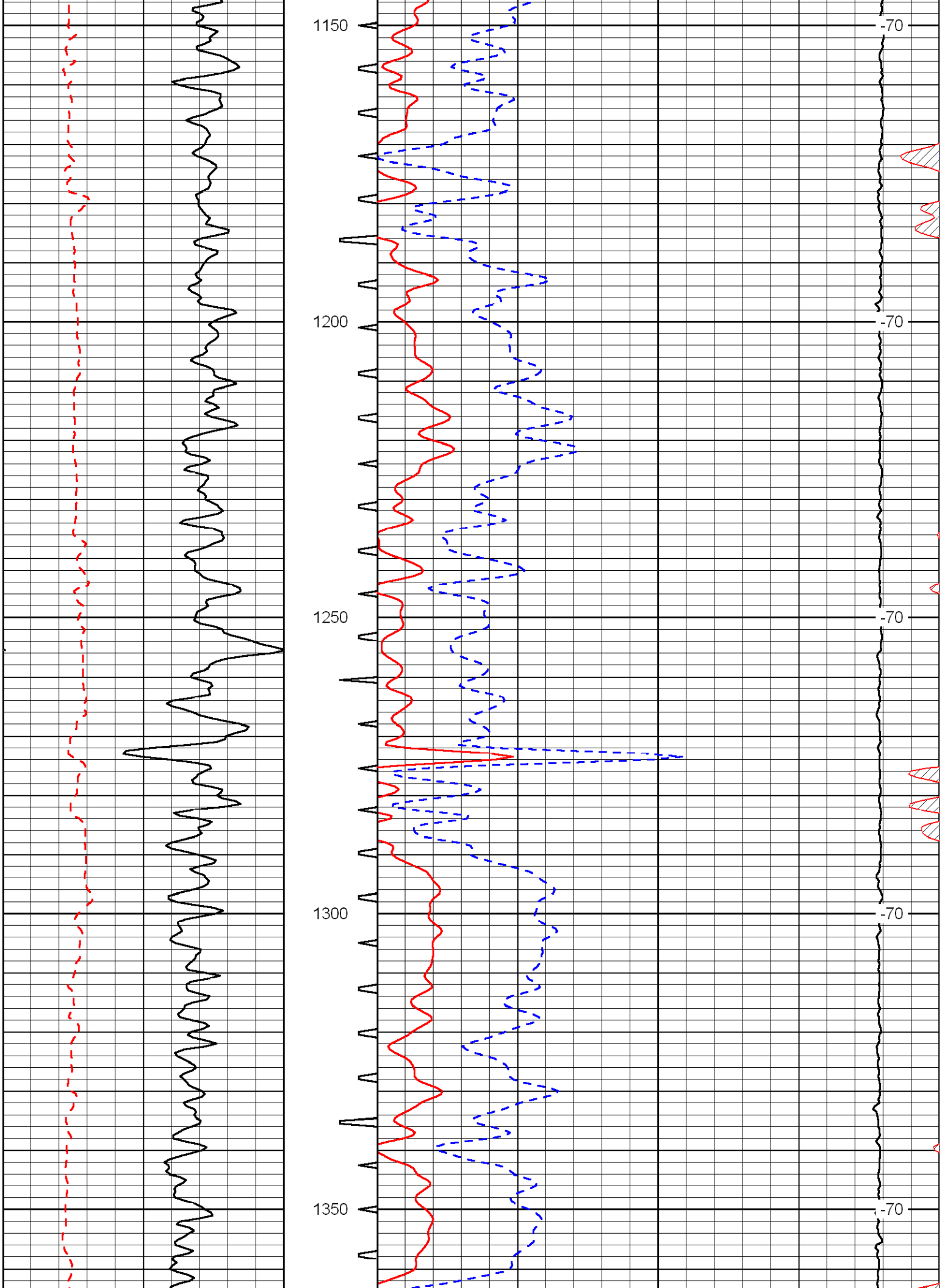
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5 0	30	SPOR	-10	
6	Caliper (GAPI)	16		10000	LTEN (lb)	0	
							LSPD

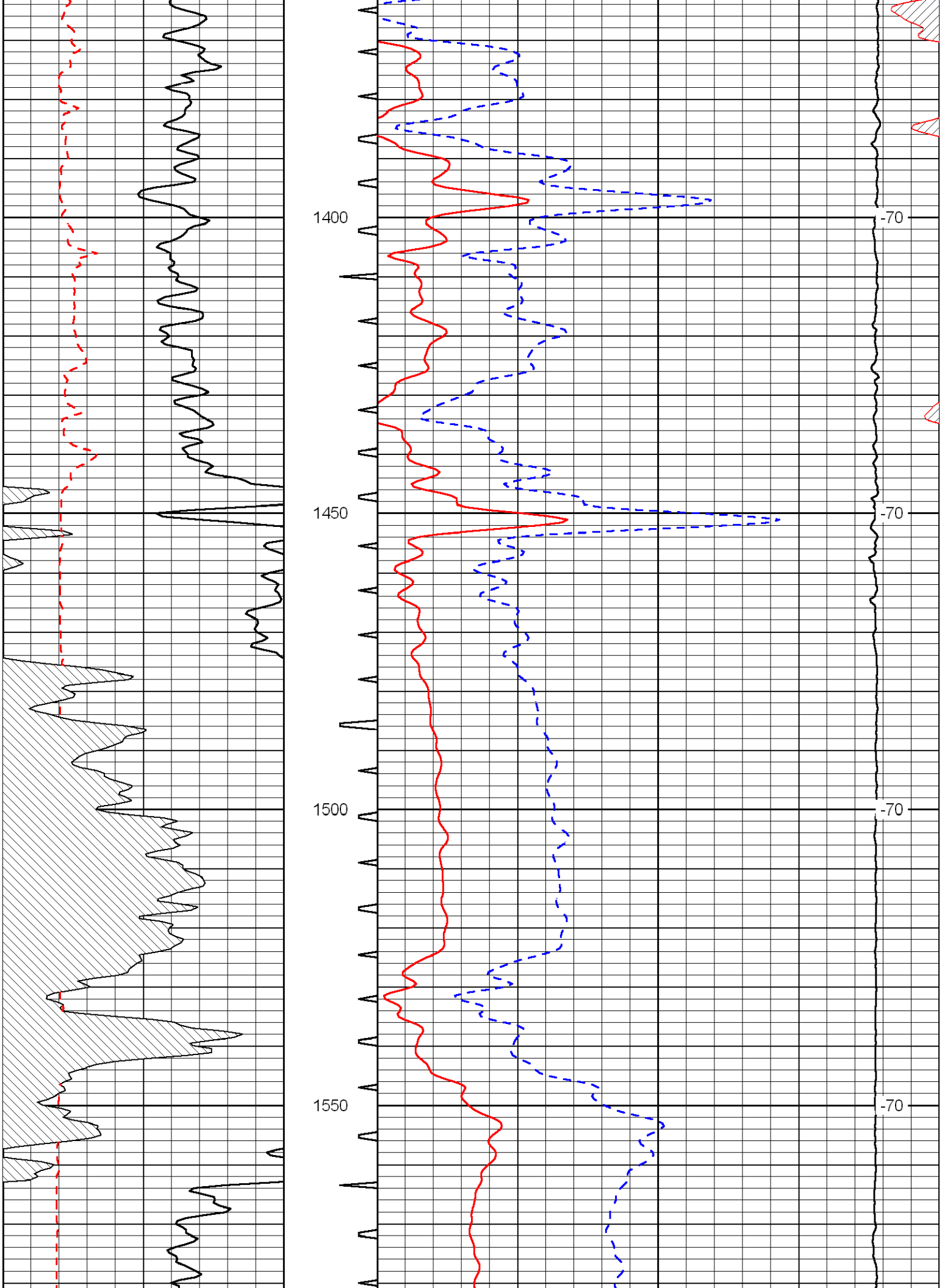


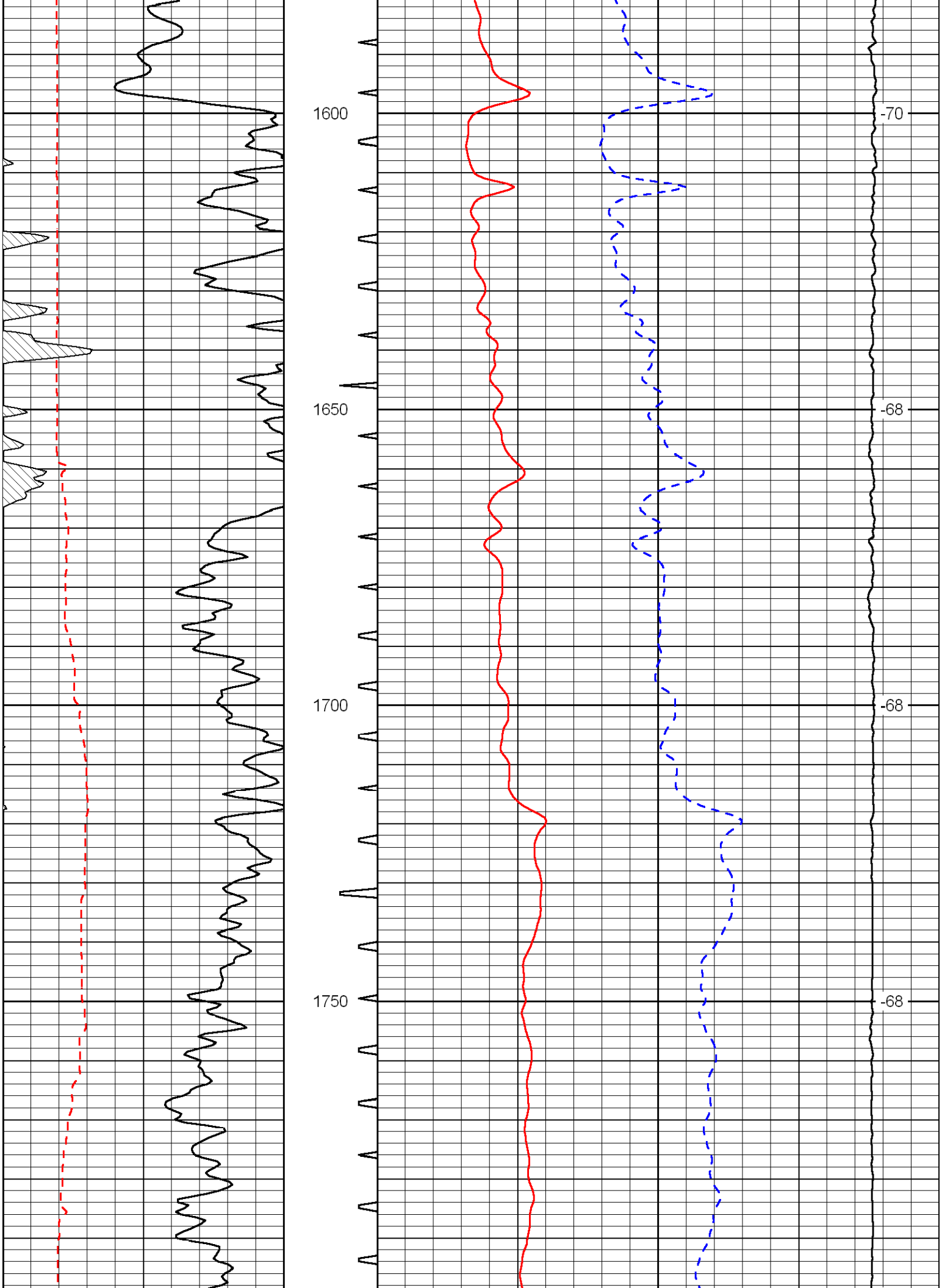

500
550
600
650
700
-74
-72
-71
-72
-72

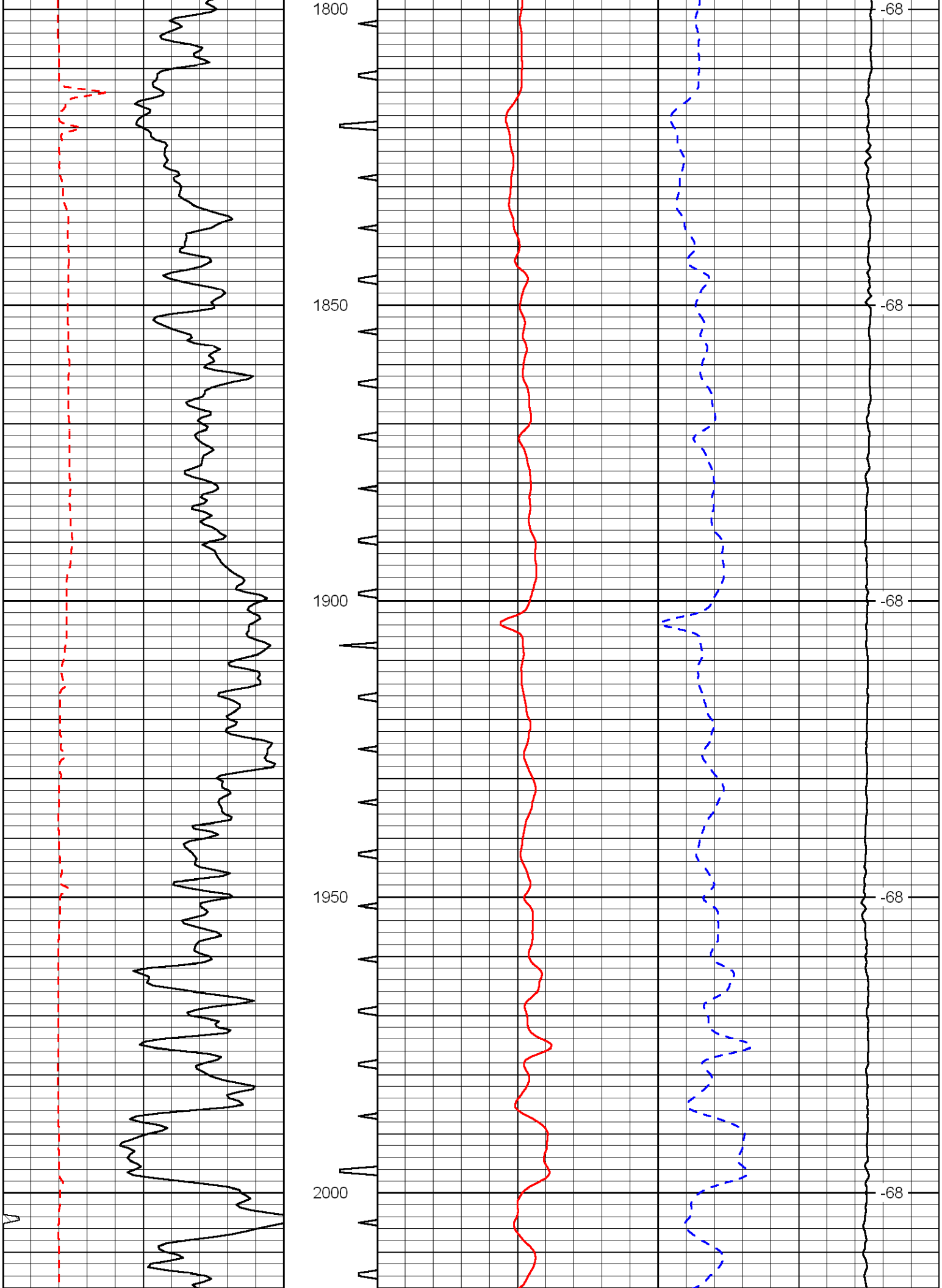

750
800
850
900
-72
-72
-72
-72

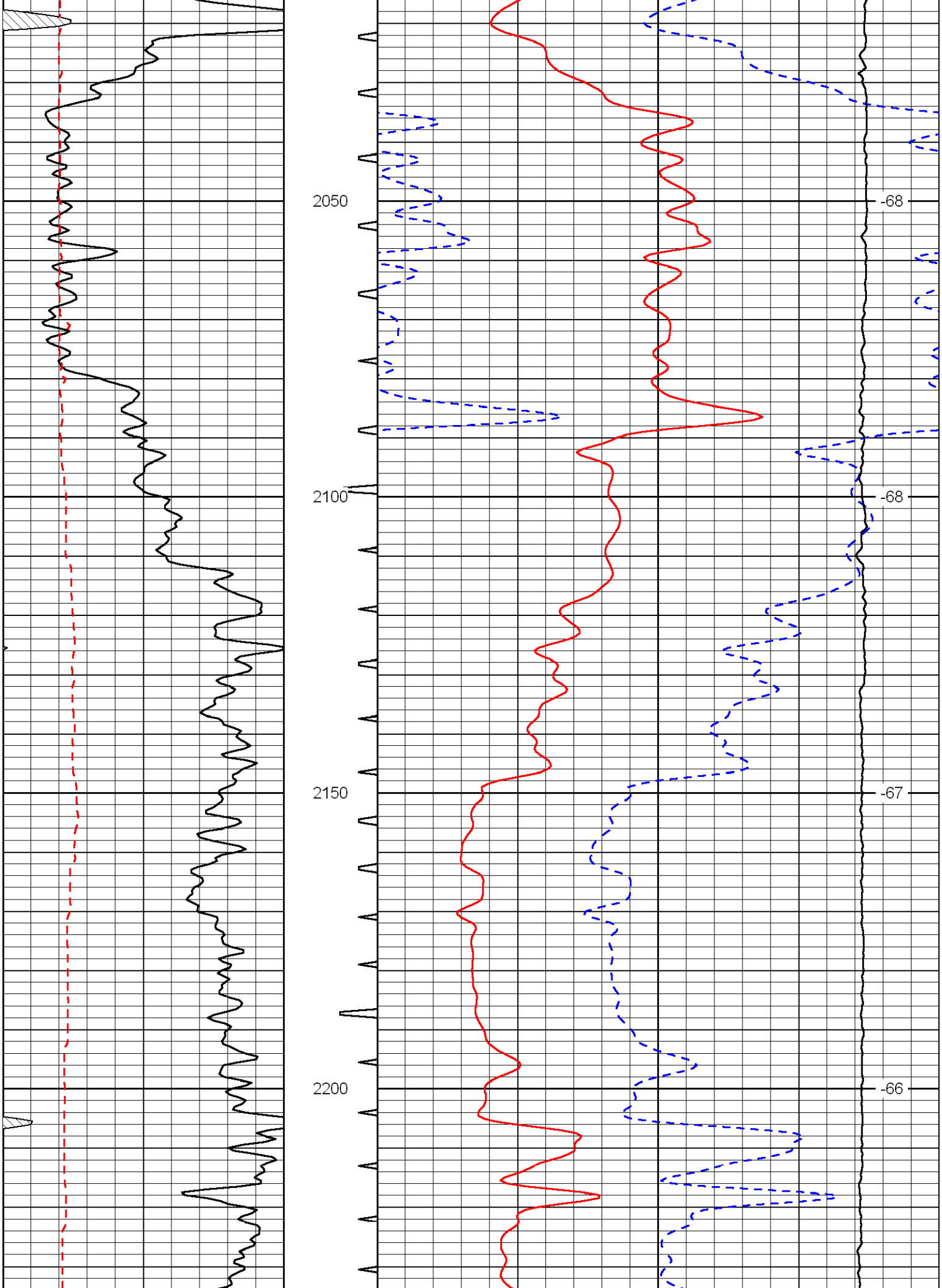

950
1000
1050
1100
-72
-72
-72
-70

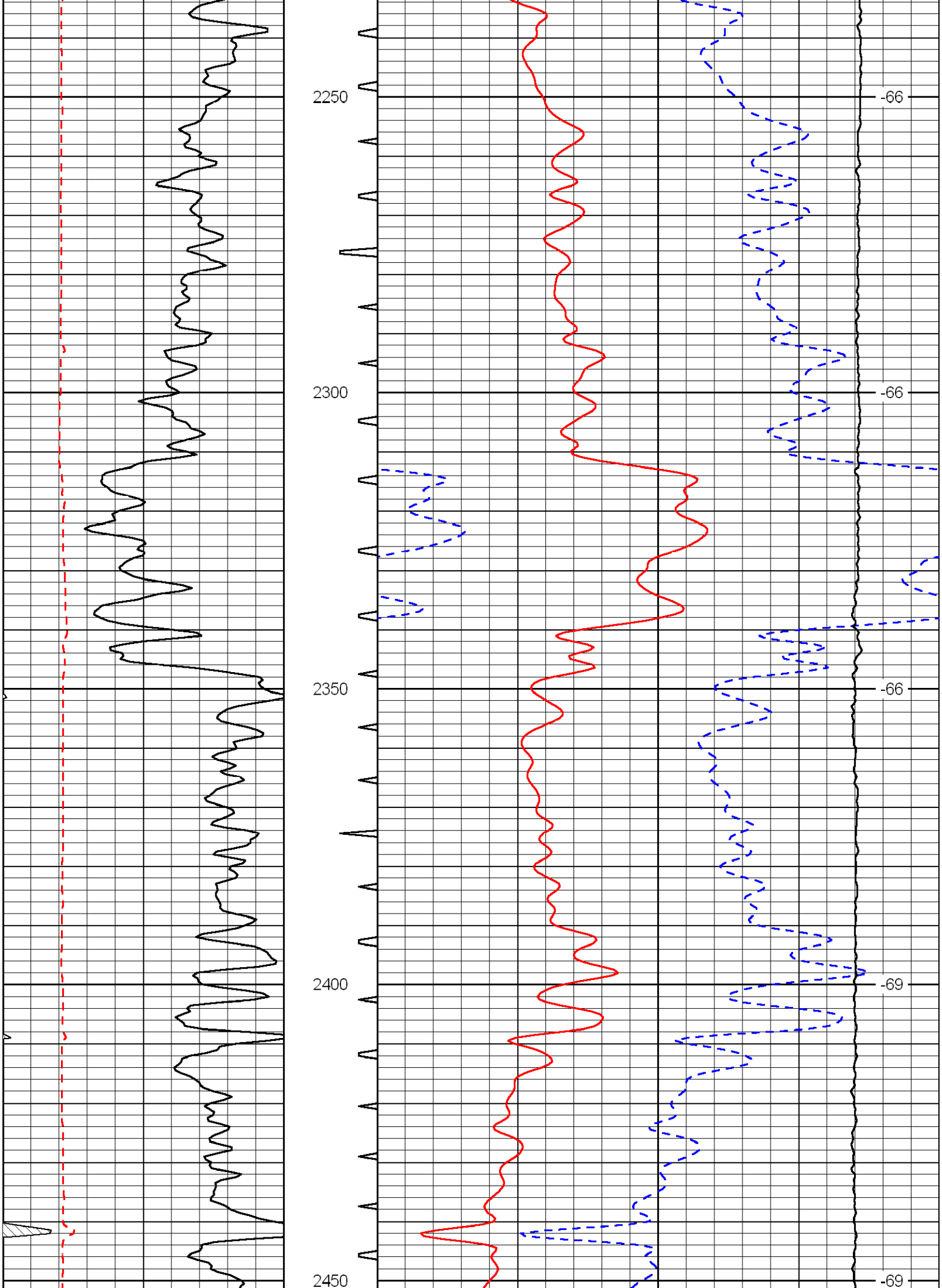

1150
1200
1250
1300
1350
-70
-70
-70
-70
-70

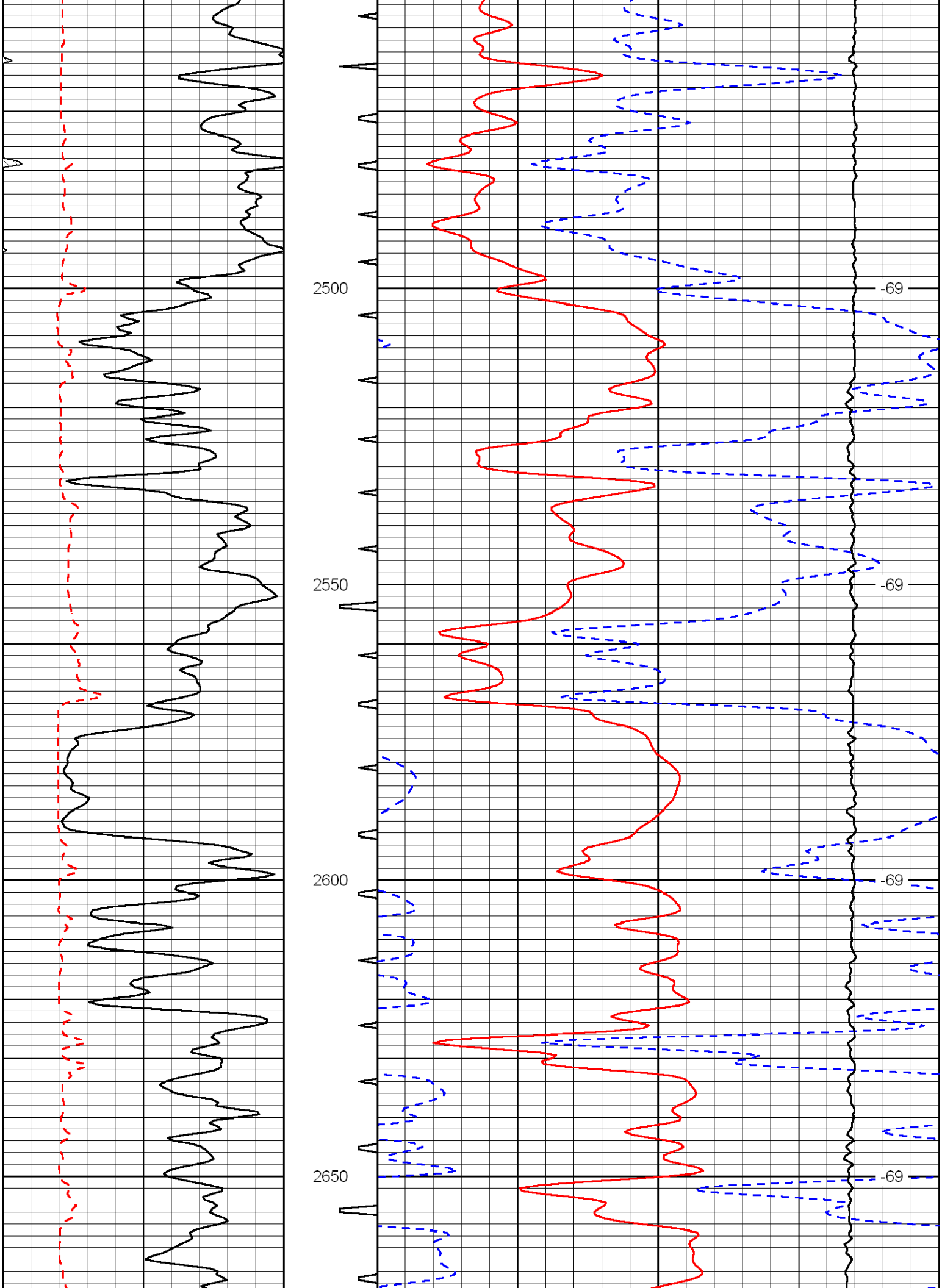

1400
1450
1500
1550
-70
-70
-70
-70

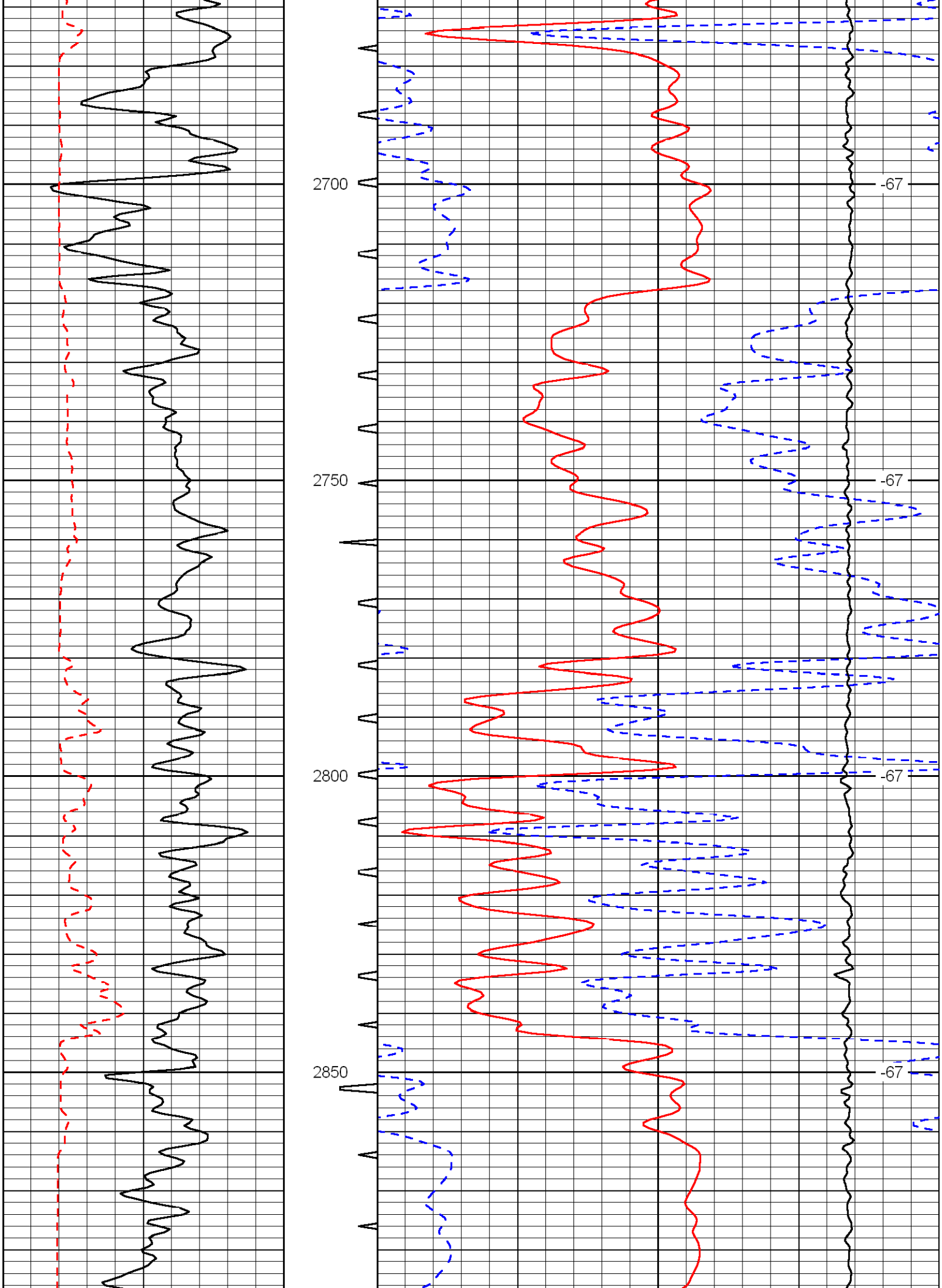

1600
1650
1700
1750
-70
-68
-68
-68

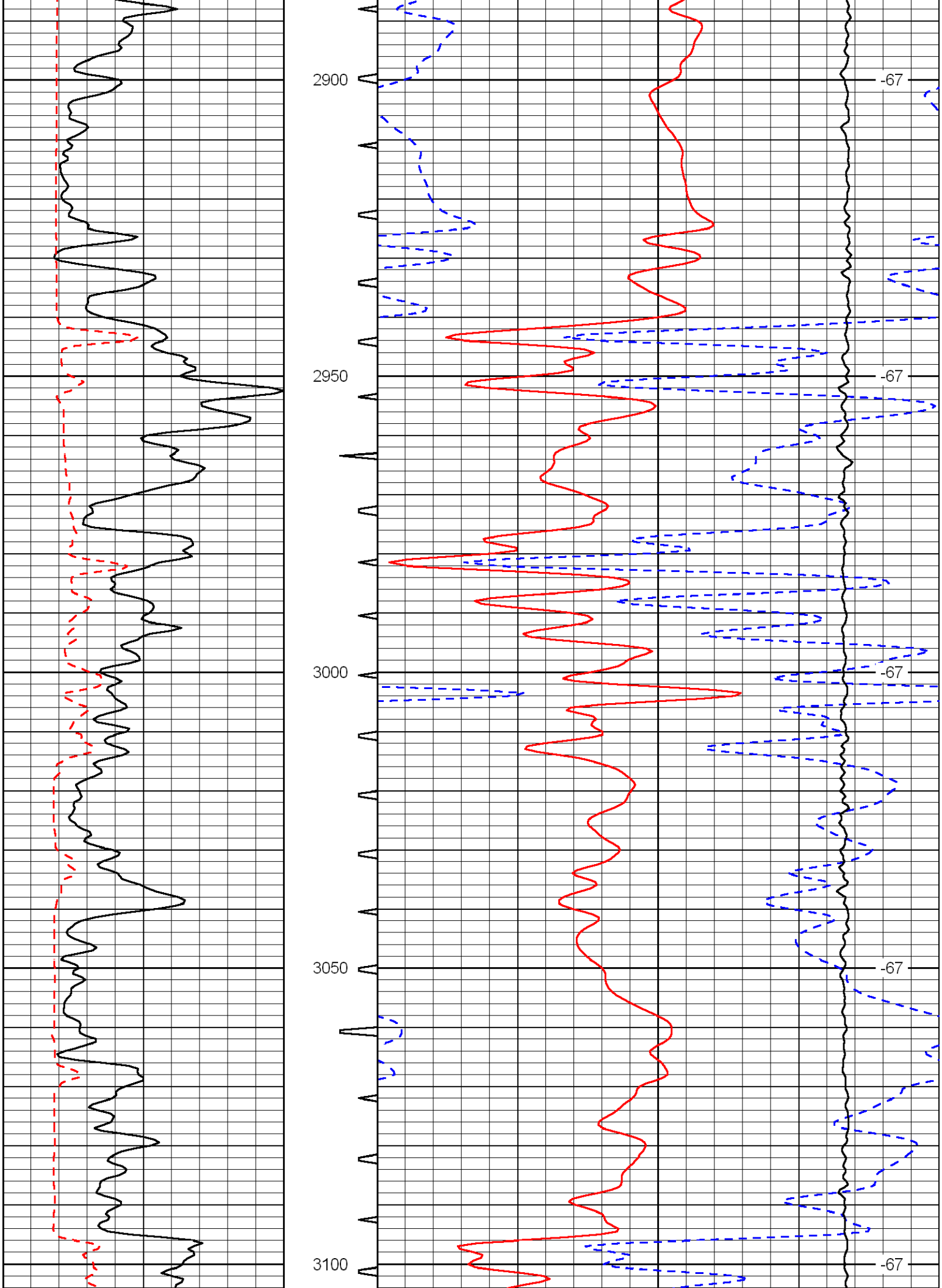

1800
1850
1900
1950
2000
-68
-68
-68
-68

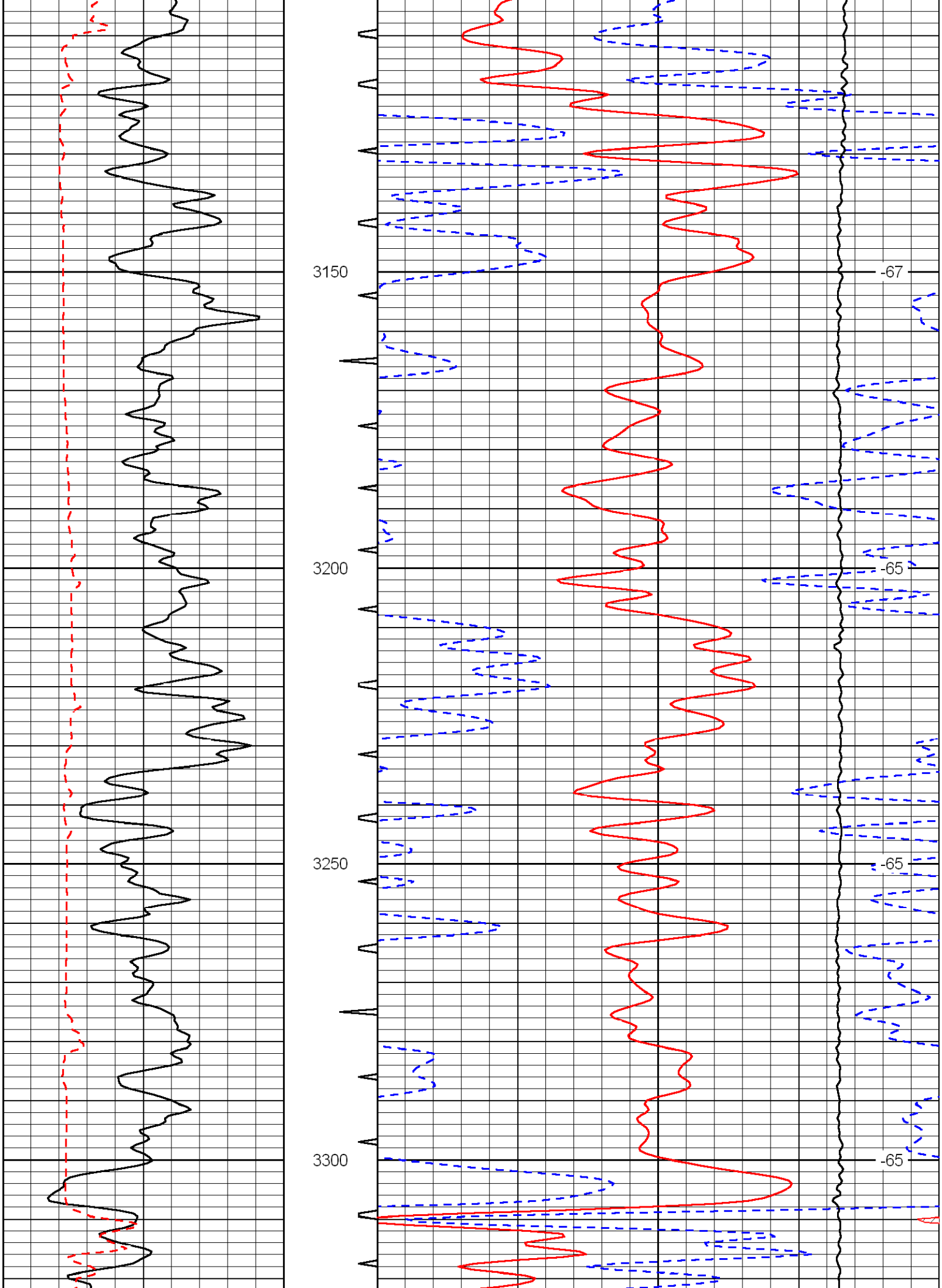

2050
2100
2150
2200
-68
-68
-67
-66

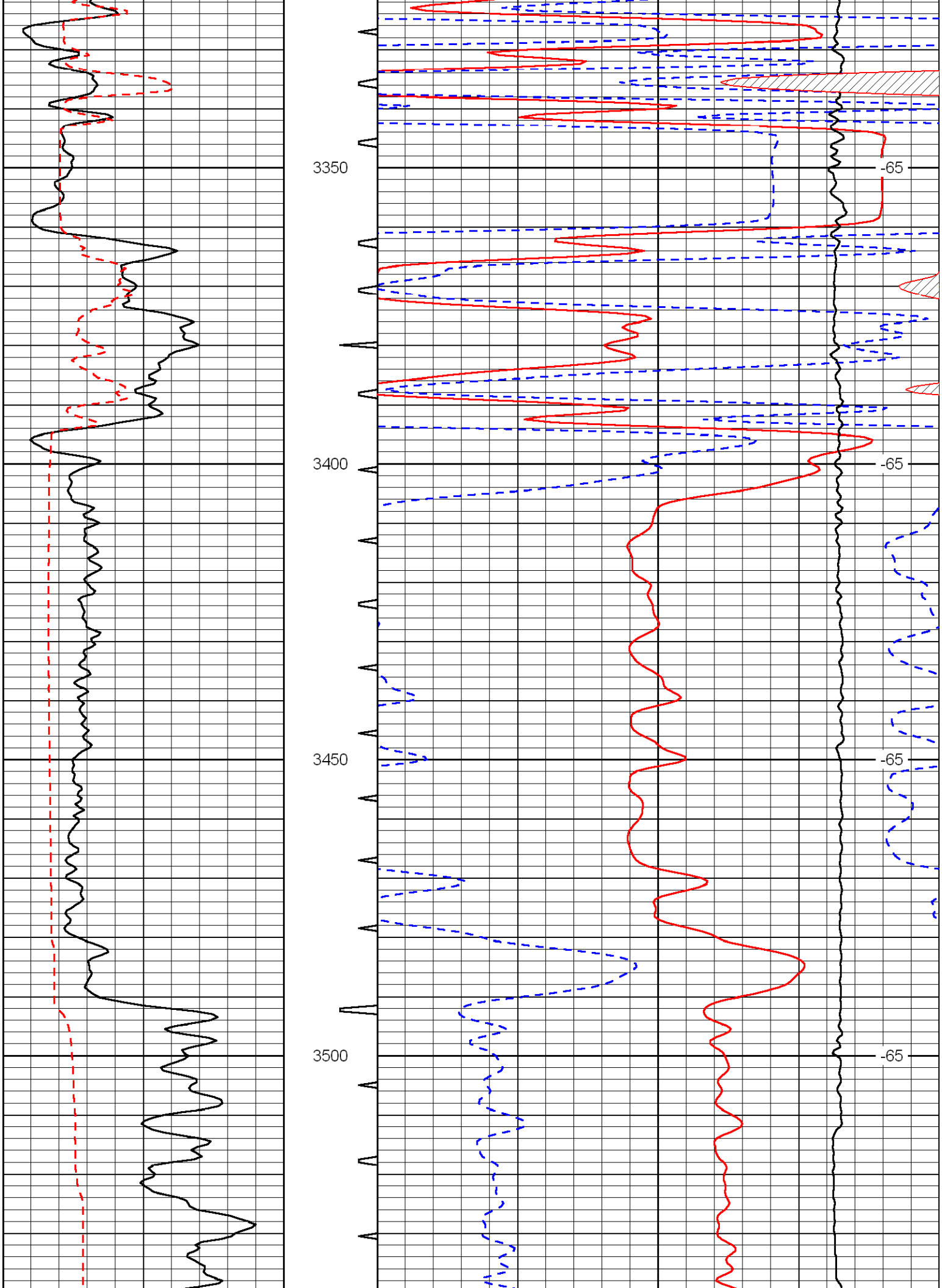

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2300
2350
2400
2450
-66
-66
-66
-69
-69

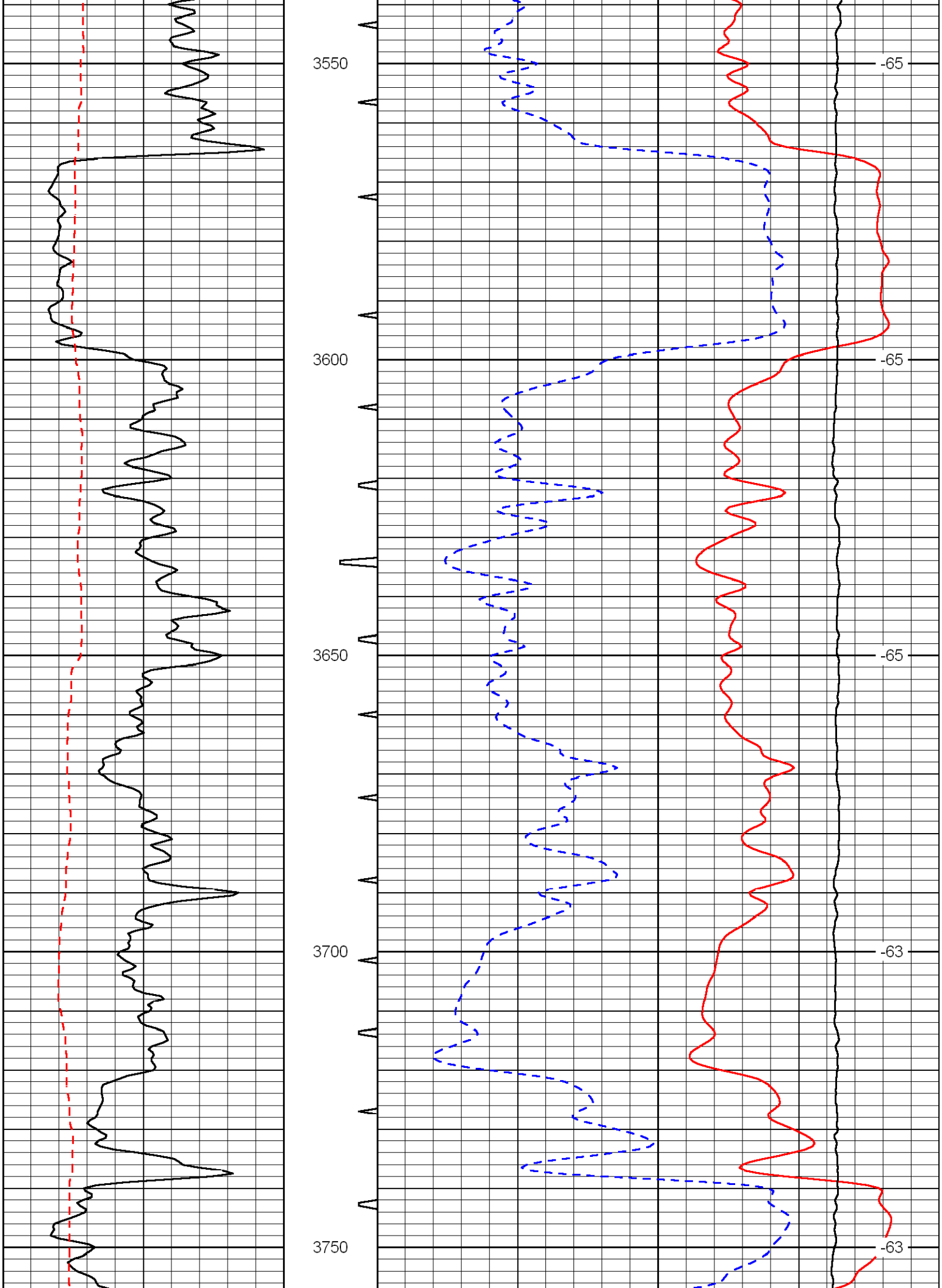

2500
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2600
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-69
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-69

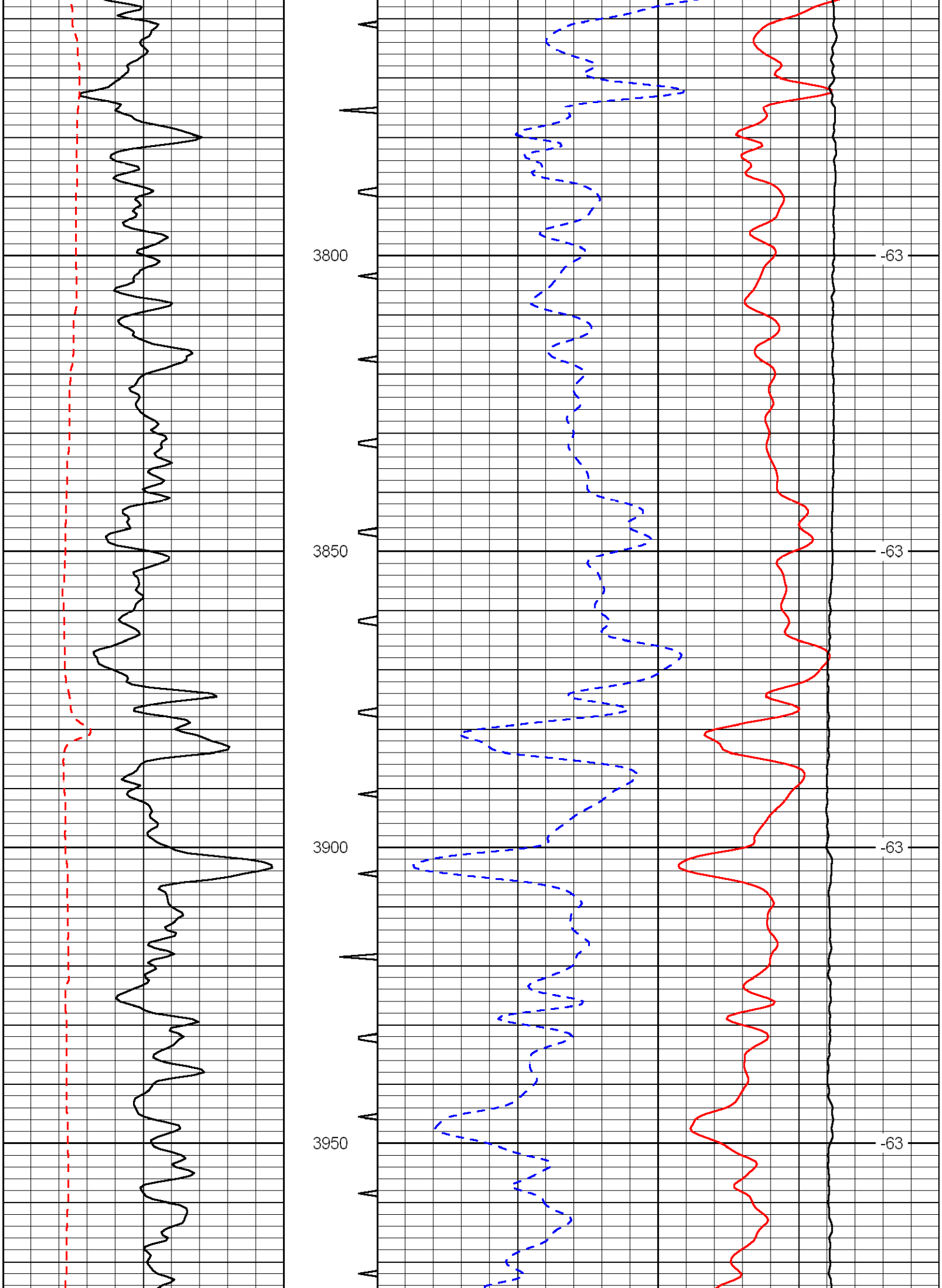

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2800
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-67
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-67

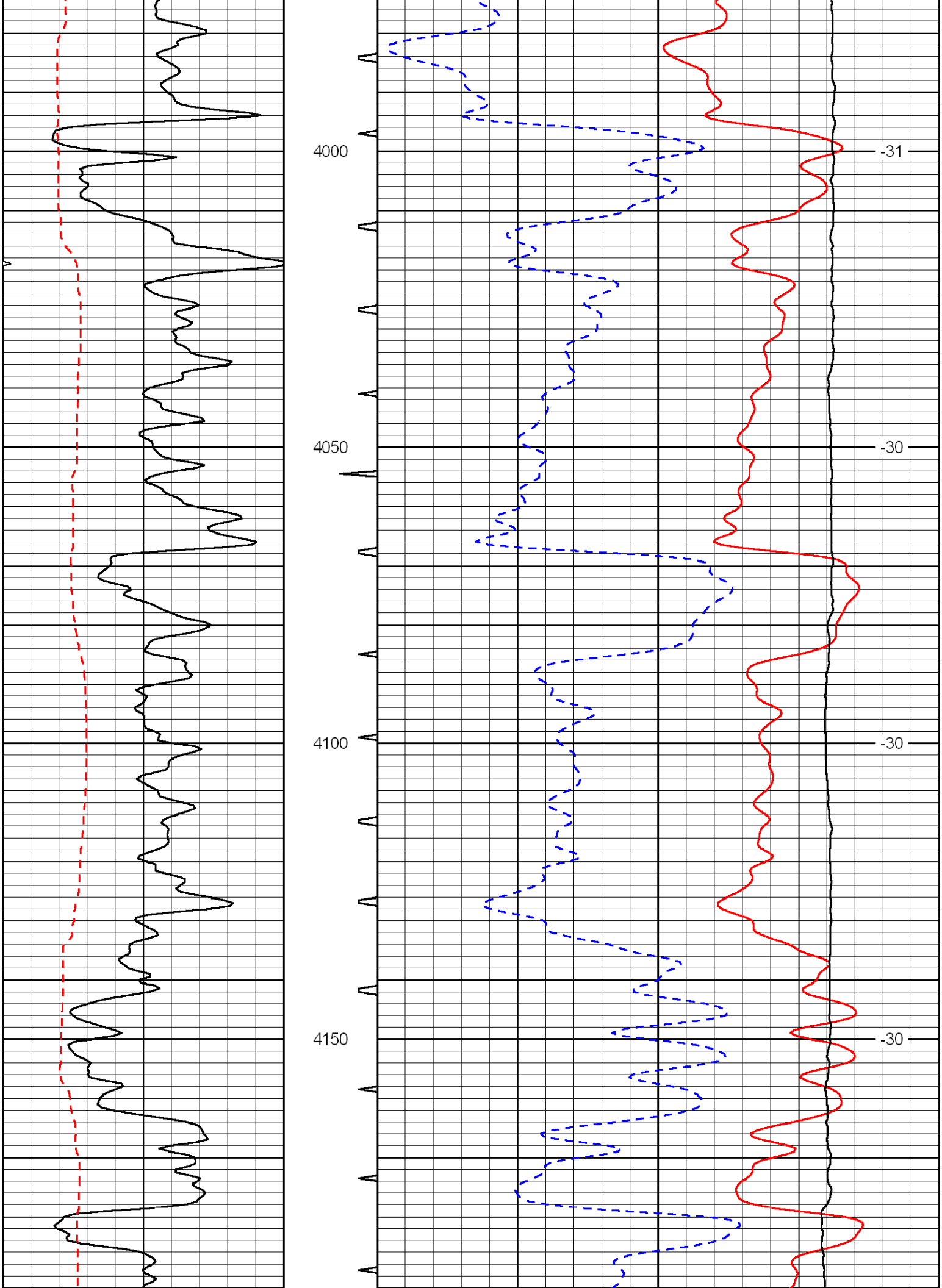

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3000
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3100
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-67
-67
-67

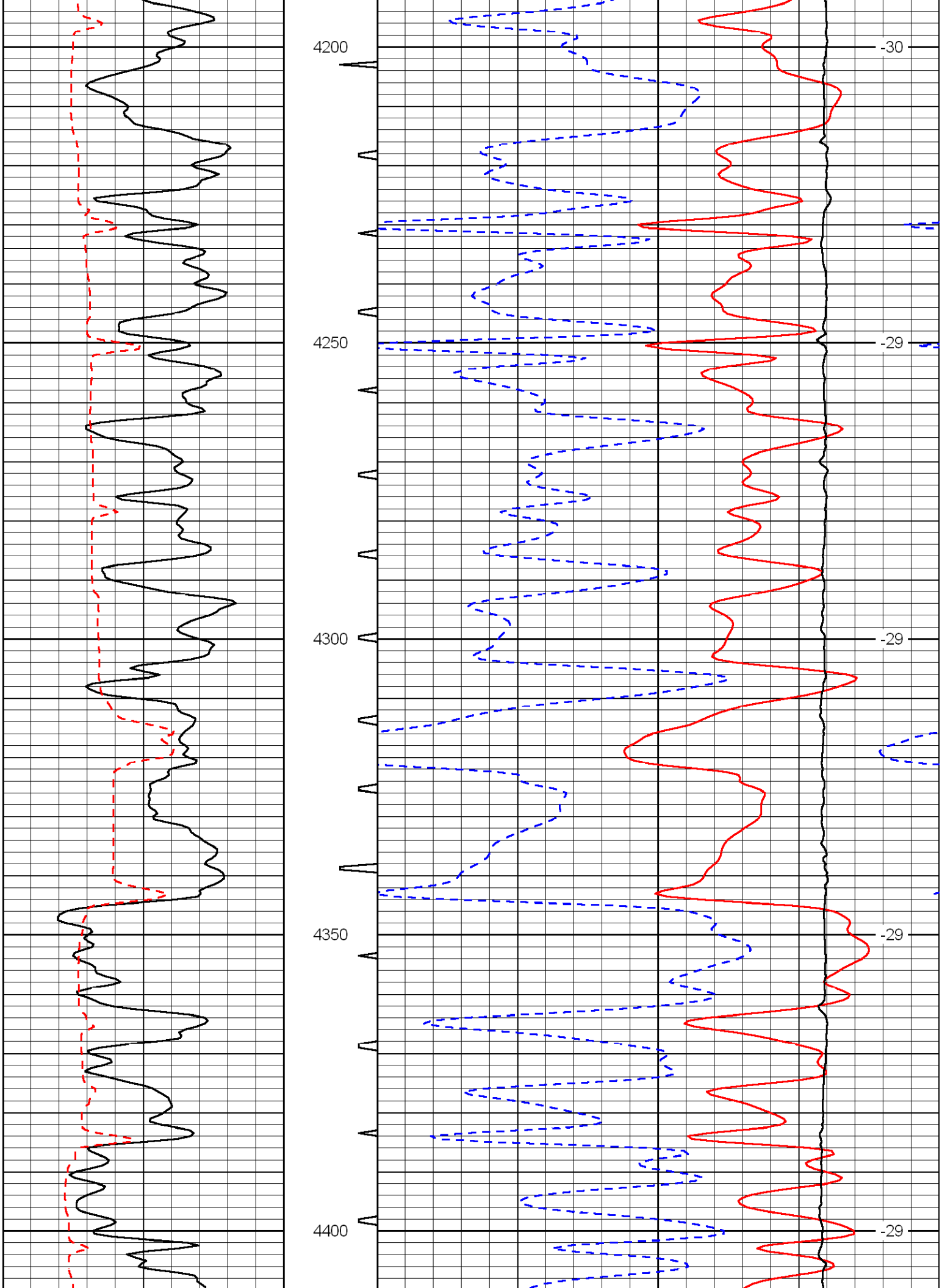

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3300
-65

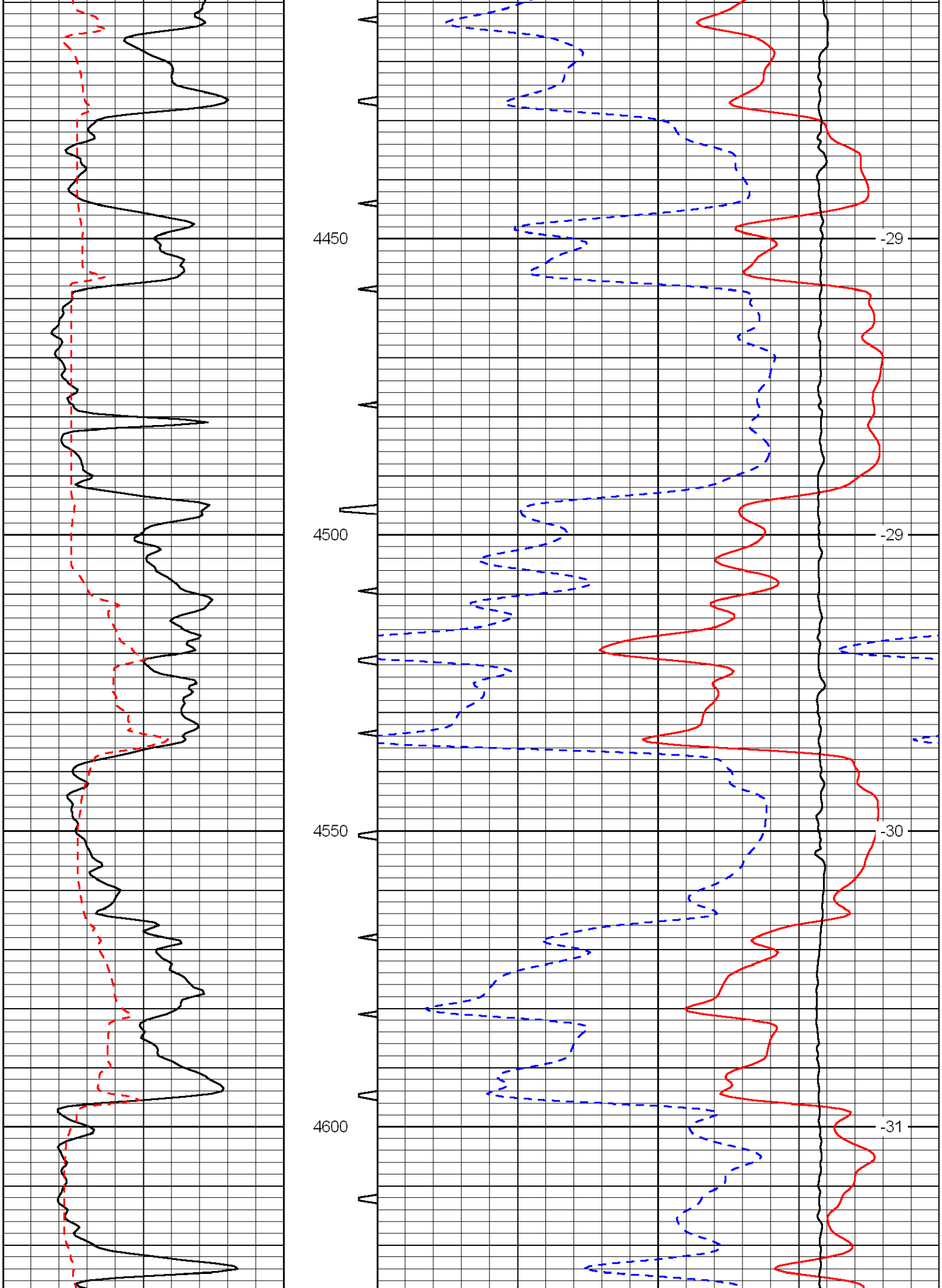

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-65
3400
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3450
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3500
-65

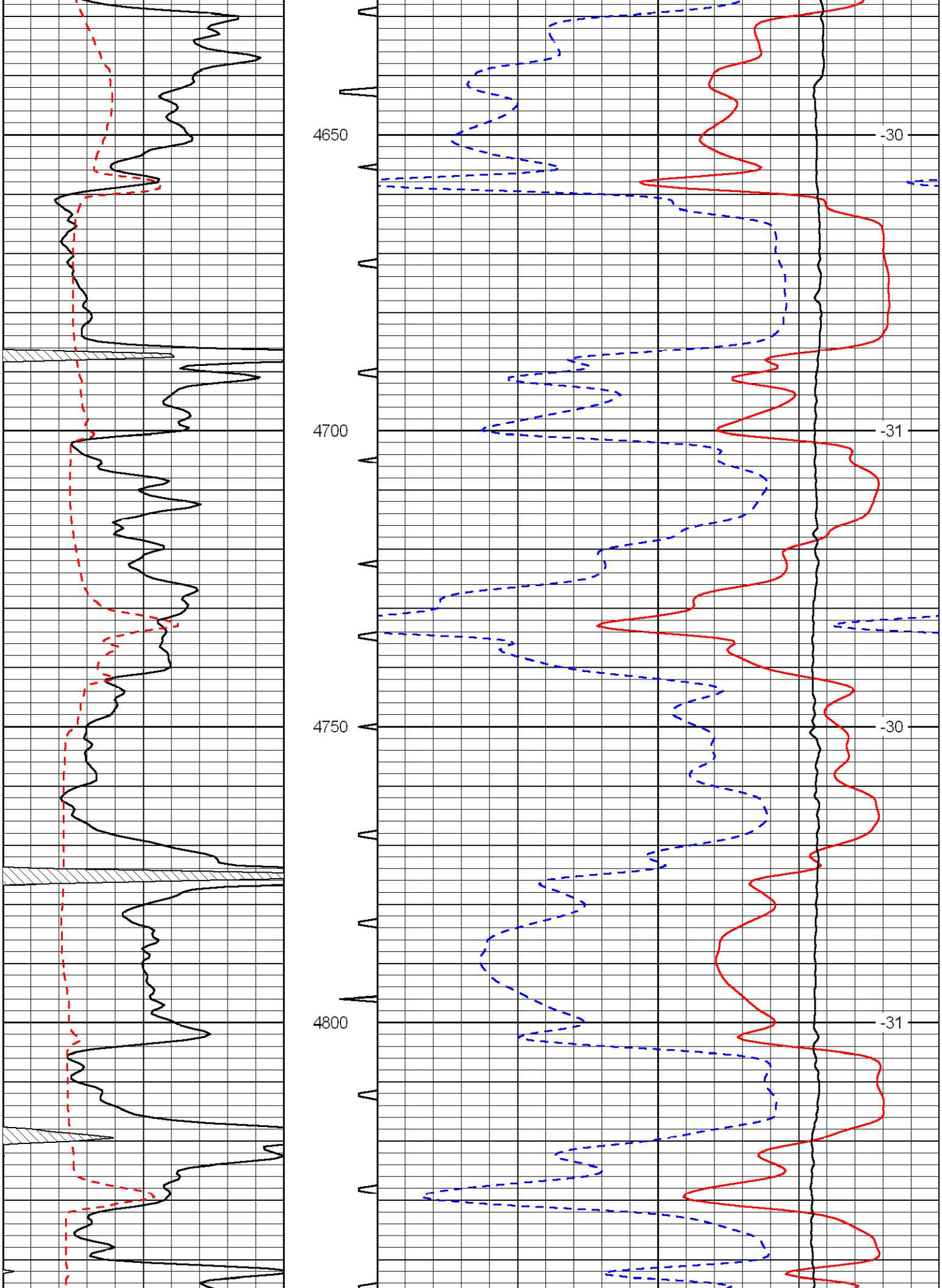

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-63

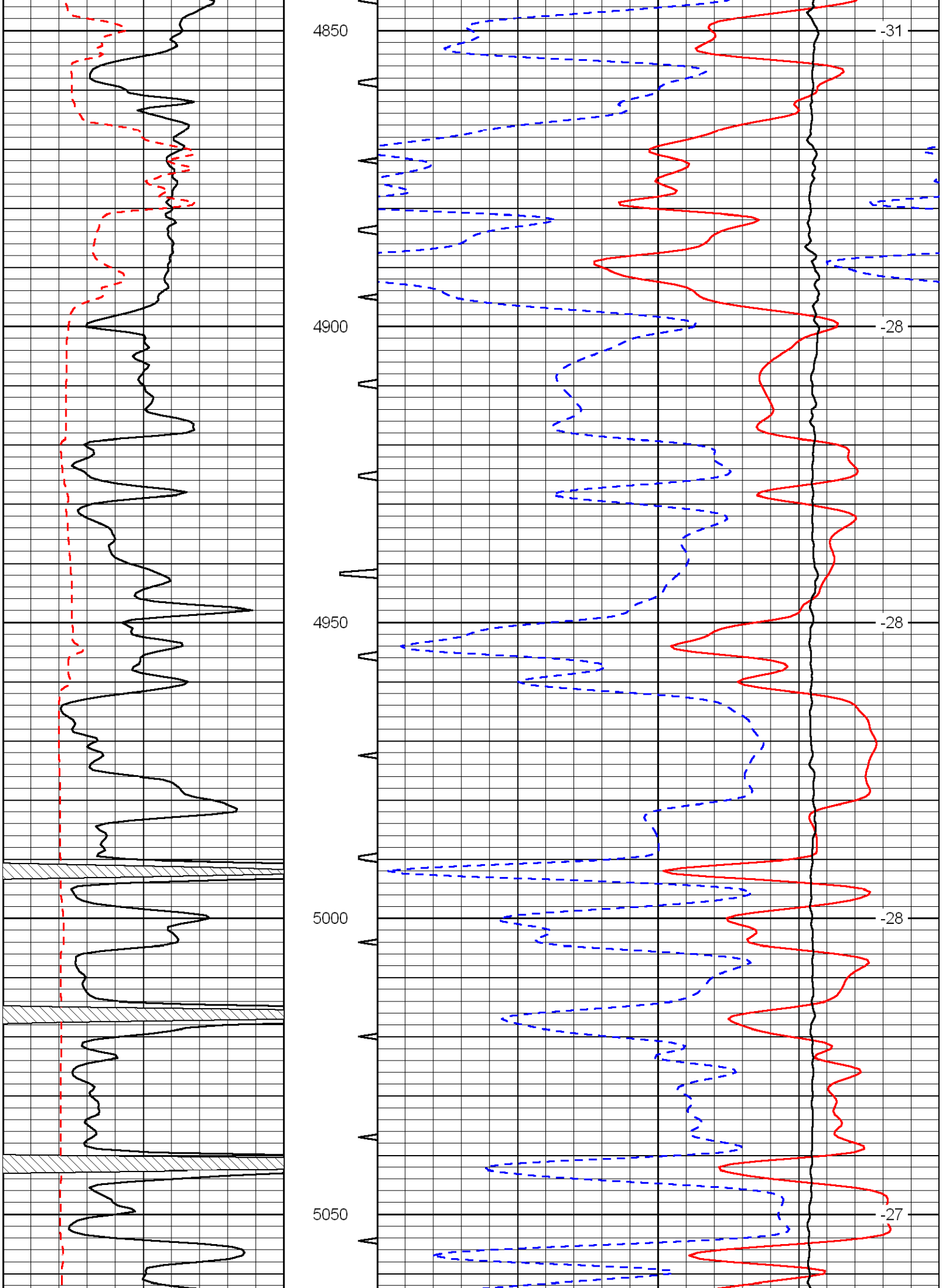

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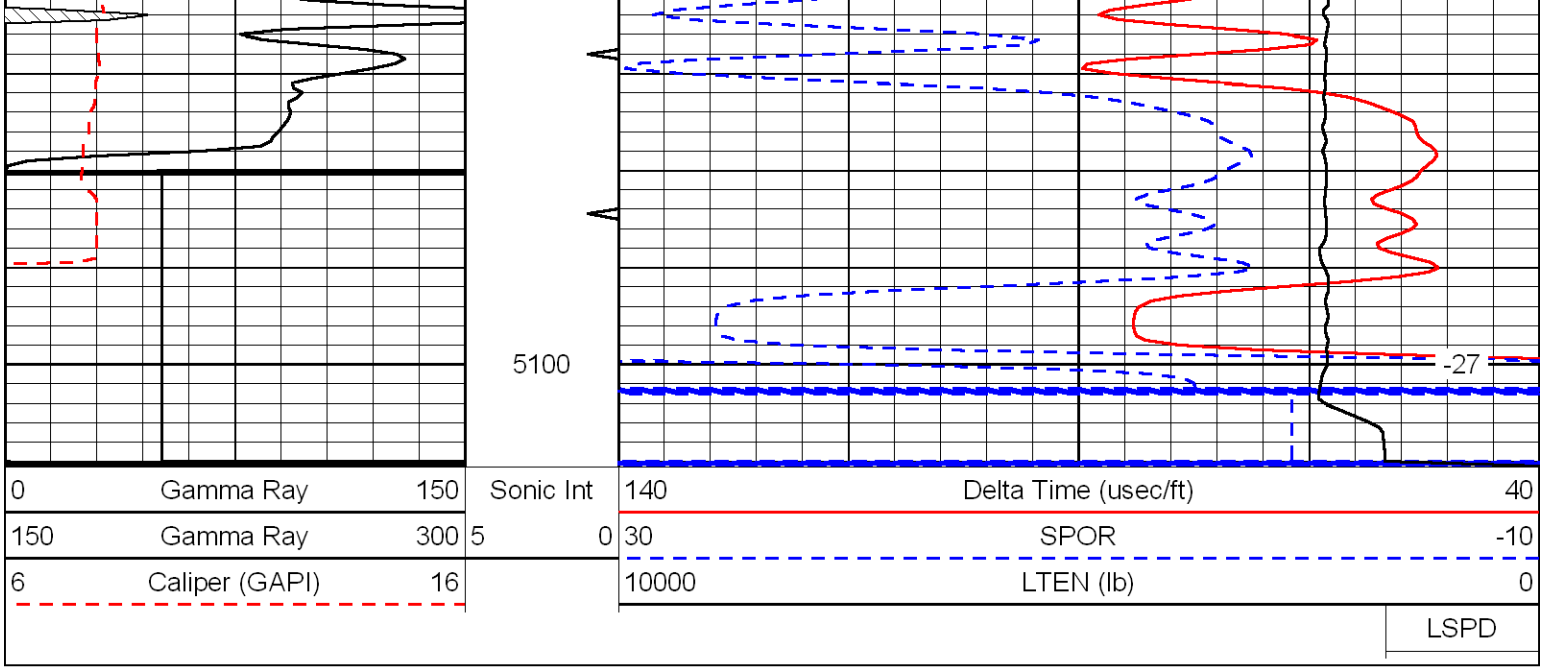

4000
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4200
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4800
-31


4850
4900
4950
5000
5050
-31
-28
-28
-28
-27



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		10000	LTEN (lb)	0
						LSPD