LOG-TECH

DIGITAL LOG (785) 625-3858

Borehole Compensated Sonic Log

API No. 15-065-23800-00-00

Company Murfin Drilling Company, Inc.

Well Ruder Unit No. 1-36

Field Wildcat

County Graham State Kansas

Location SW - SW - NW - SE
1430' FSL & 2600' FEL
Sec: 36 Twp: 10 S Rge: 24 W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 2360
D.F.
G.L. 2355

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
	Elevation 2355
	5 Ft. Above Perm. Datum
Date	1/22/2012
Run Number	Two
Type Log	BHC Sonic
Depth Driller	4325
Depth Logger	4327
Bottom Logged Interval	4316
Top Logged Interval	200
Type Fluid In Hole	Chemical
Salinity, PPM CL	1800
Density	9.1
Level	Full
Max. Rec. Temp. F	121
Operating Rig Time	5 Hours
Equipment -- Location	91 Hays
Recorded By	B. Becker
Witnessed By	Vern Schrag

Borehole Record

Run No	Bit	From	To
One	12.25	00	219
Two	7.875	219	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	219

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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.

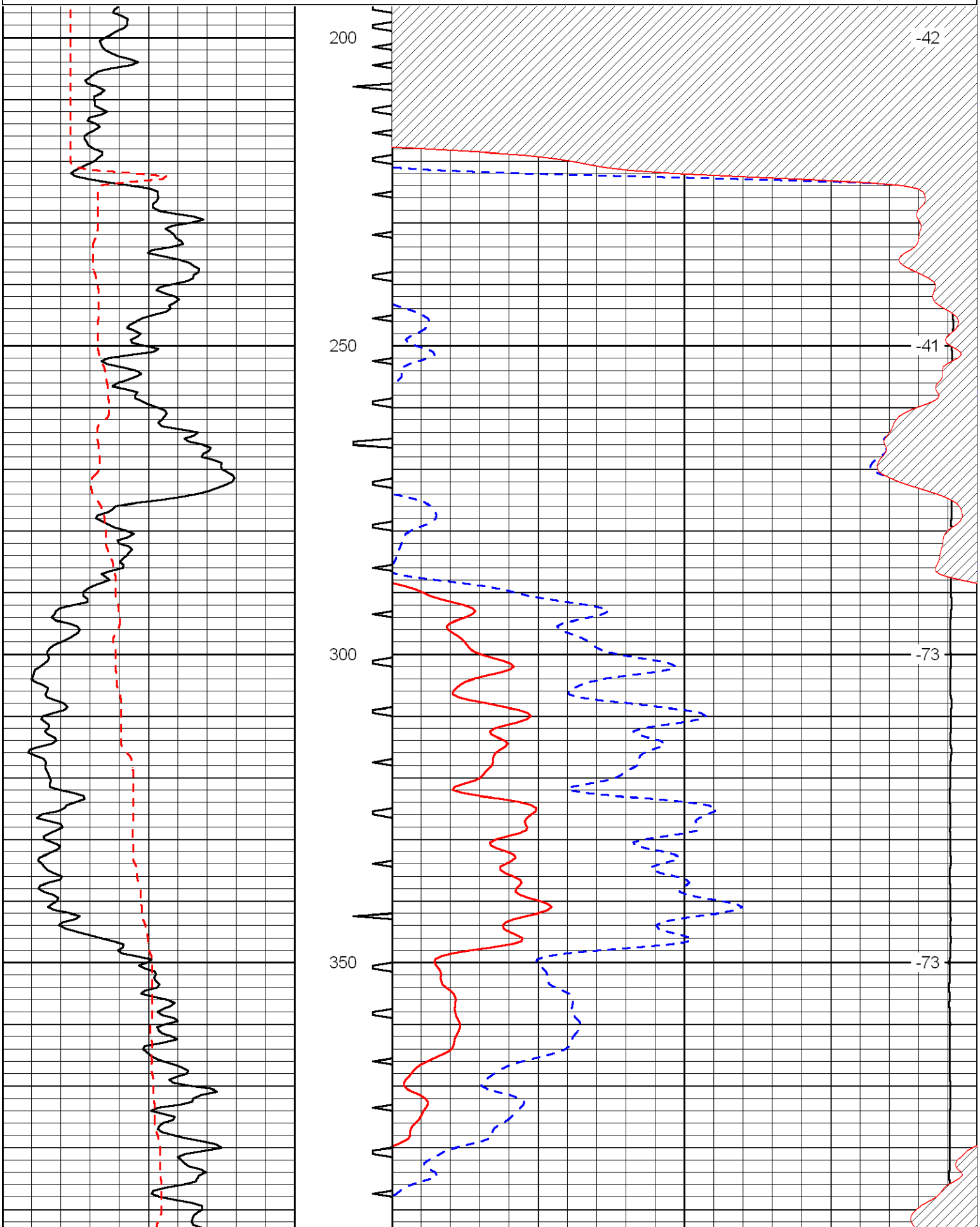
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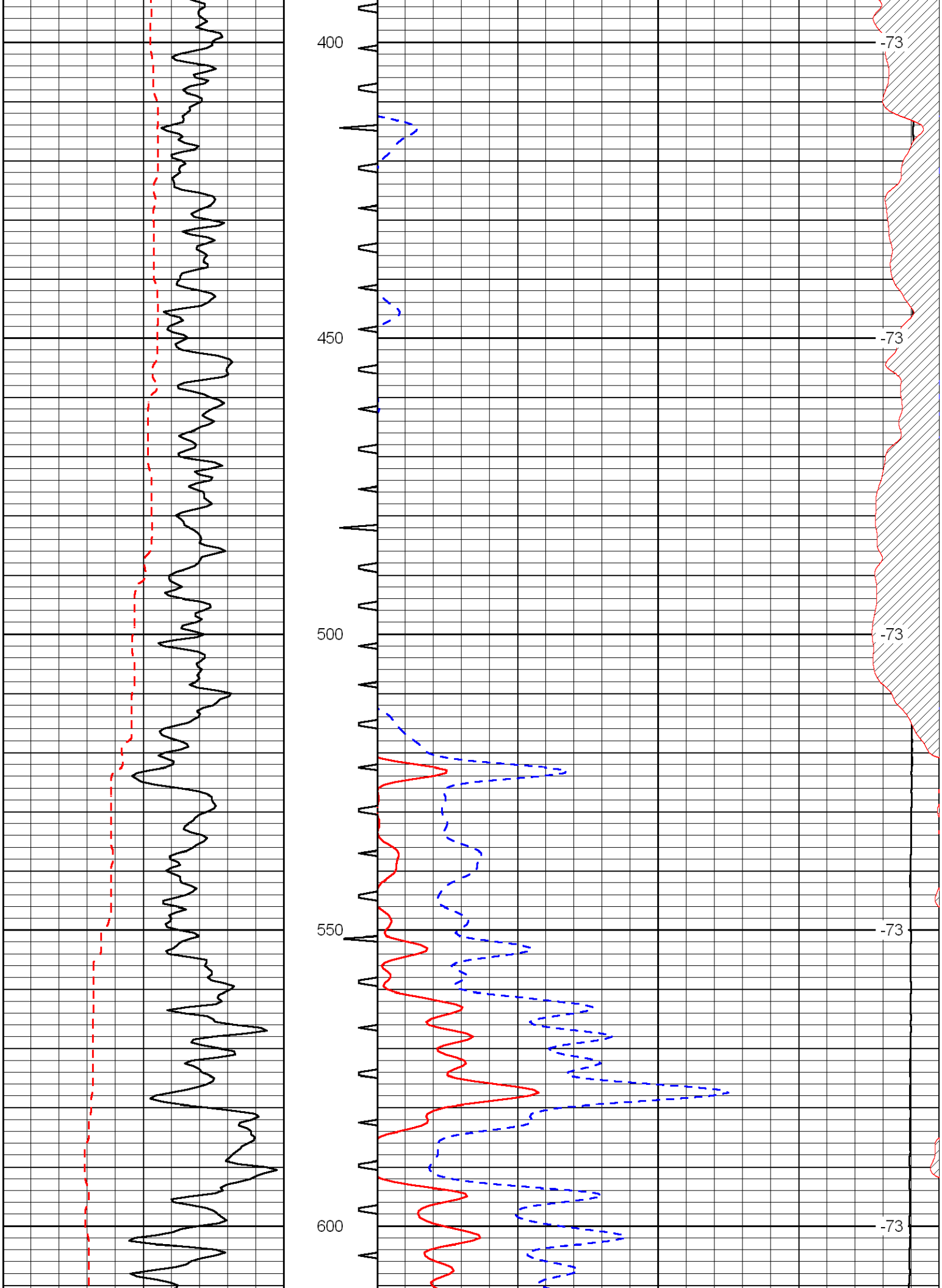
Thank you for using Log-Tech, Inc.
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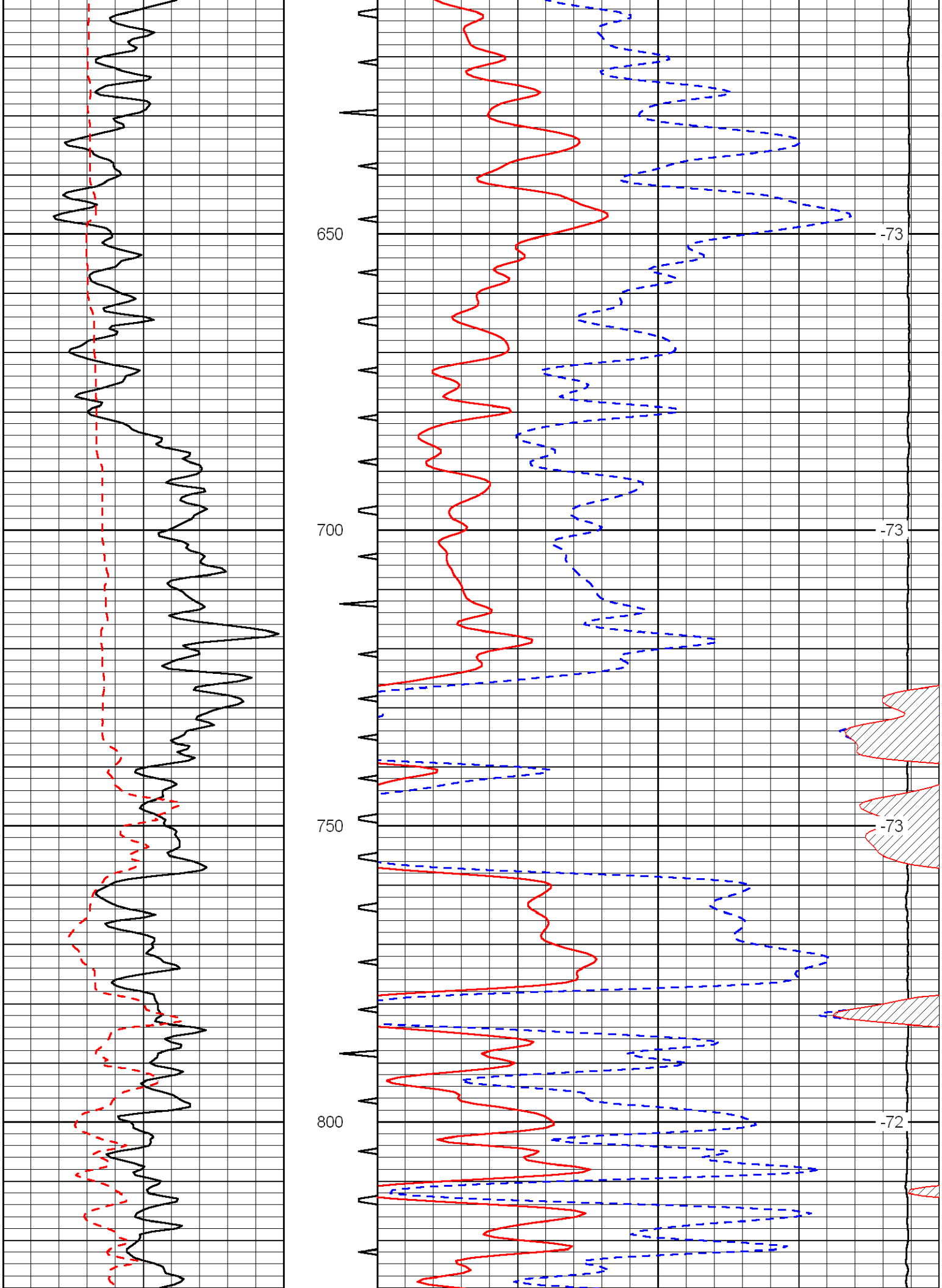
Wakeeney, Ks; North to B Rd;
5 West to 120 Rd; 1 North; 3/4 East;
Northeast to location

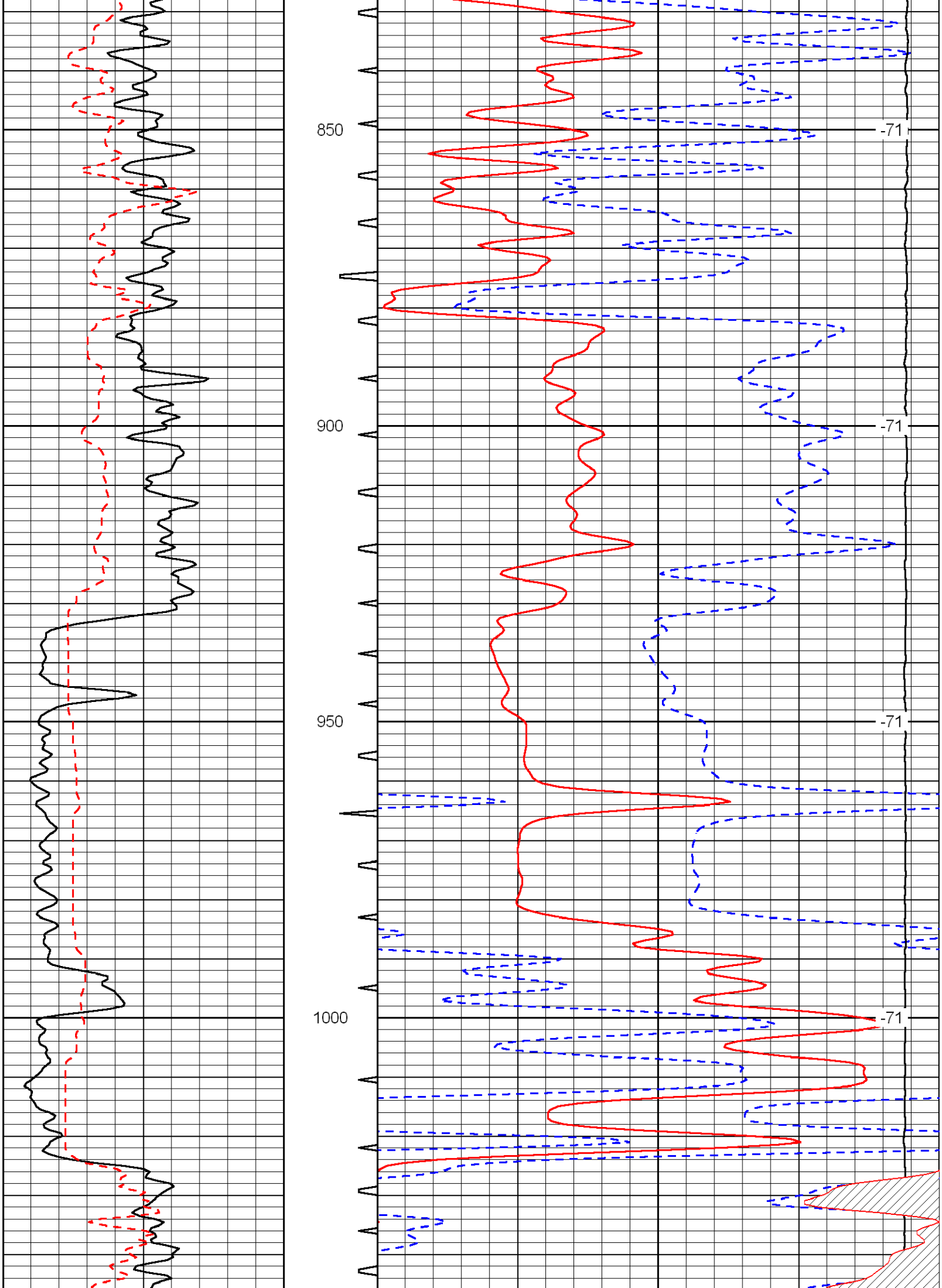
Database File:	murfinhd2.db
Dataset Pathname:	DIL/murfstk2
Presentation Format:	sonic
Dataset Creation:	Sun Jan 22 13:16:05 2012
Charted by:	Depth in Feet scaled 1:240

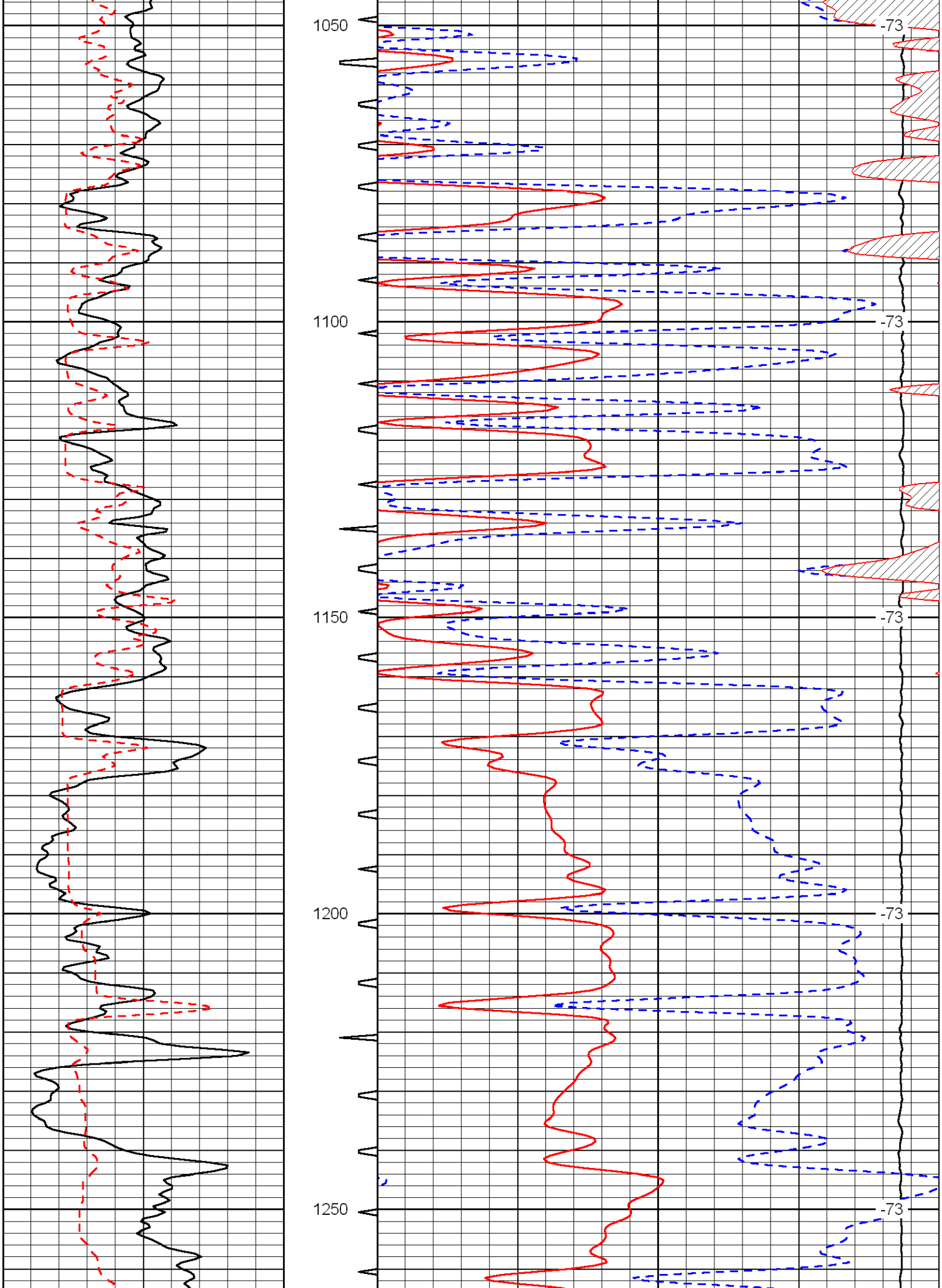
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5 0	30	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0
						LSPD

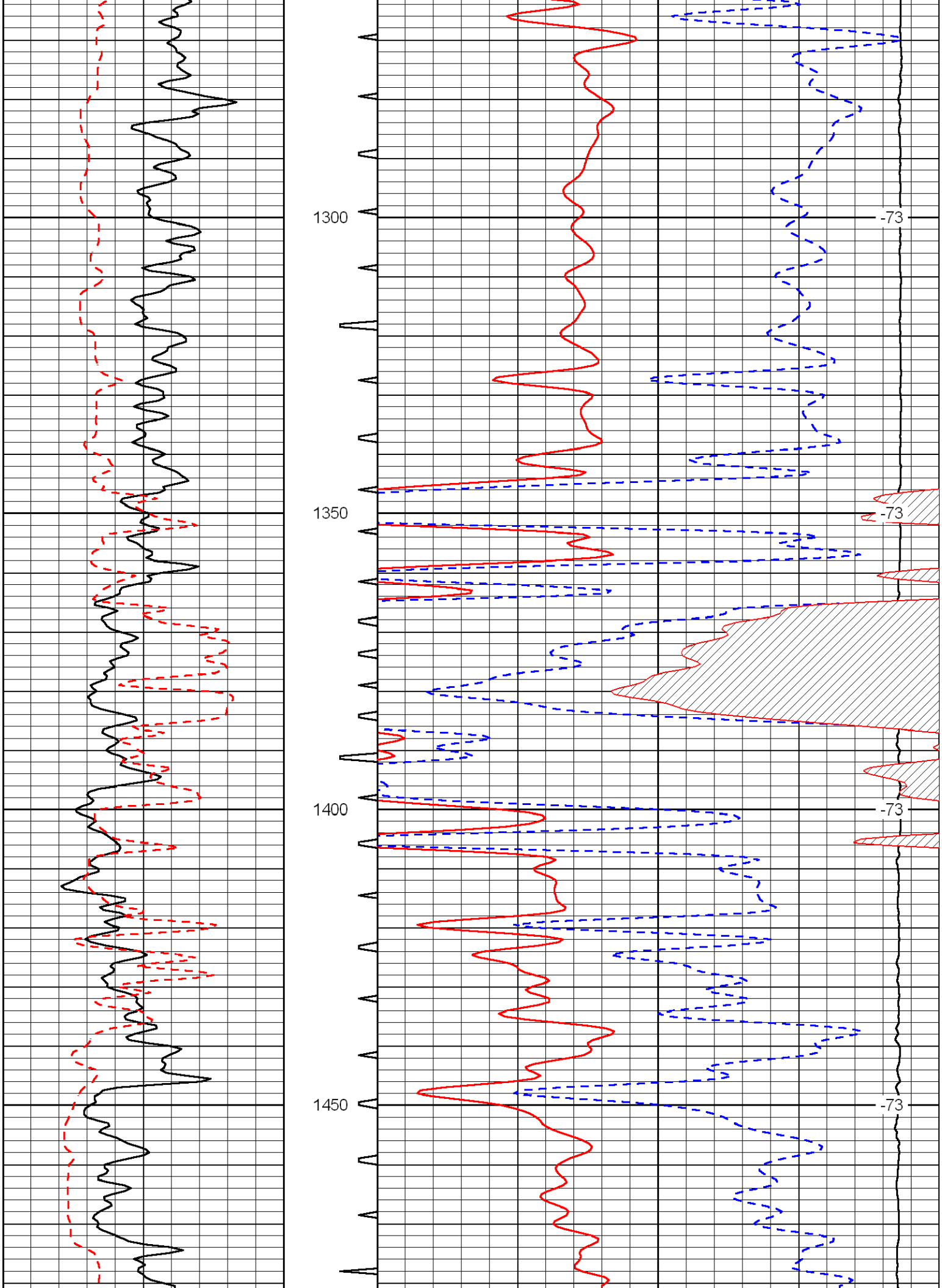


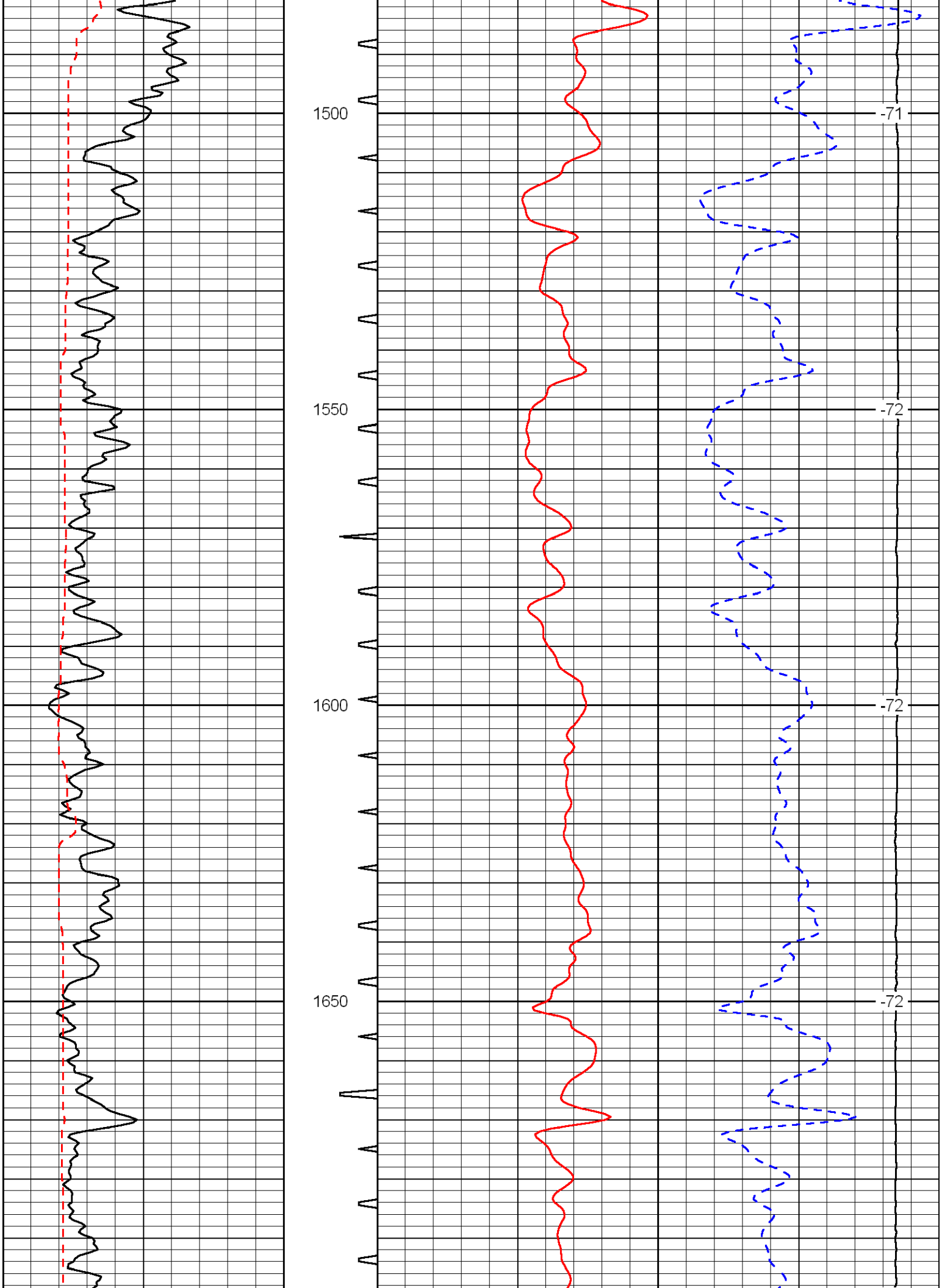

400
450
500
550
600
-73
-73
-73
-73
-73

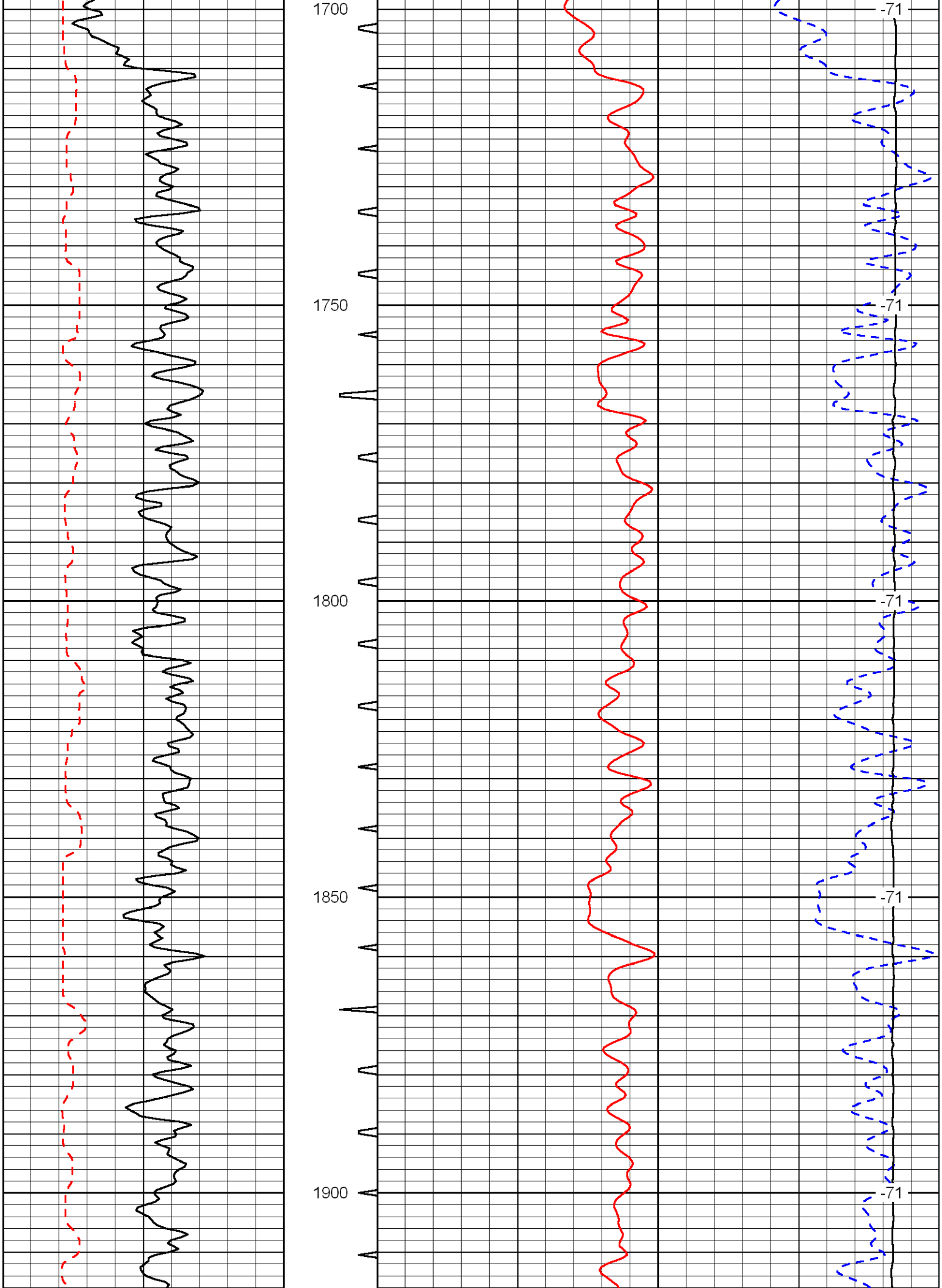

650
700
750
800
-73
-73
-73
-72

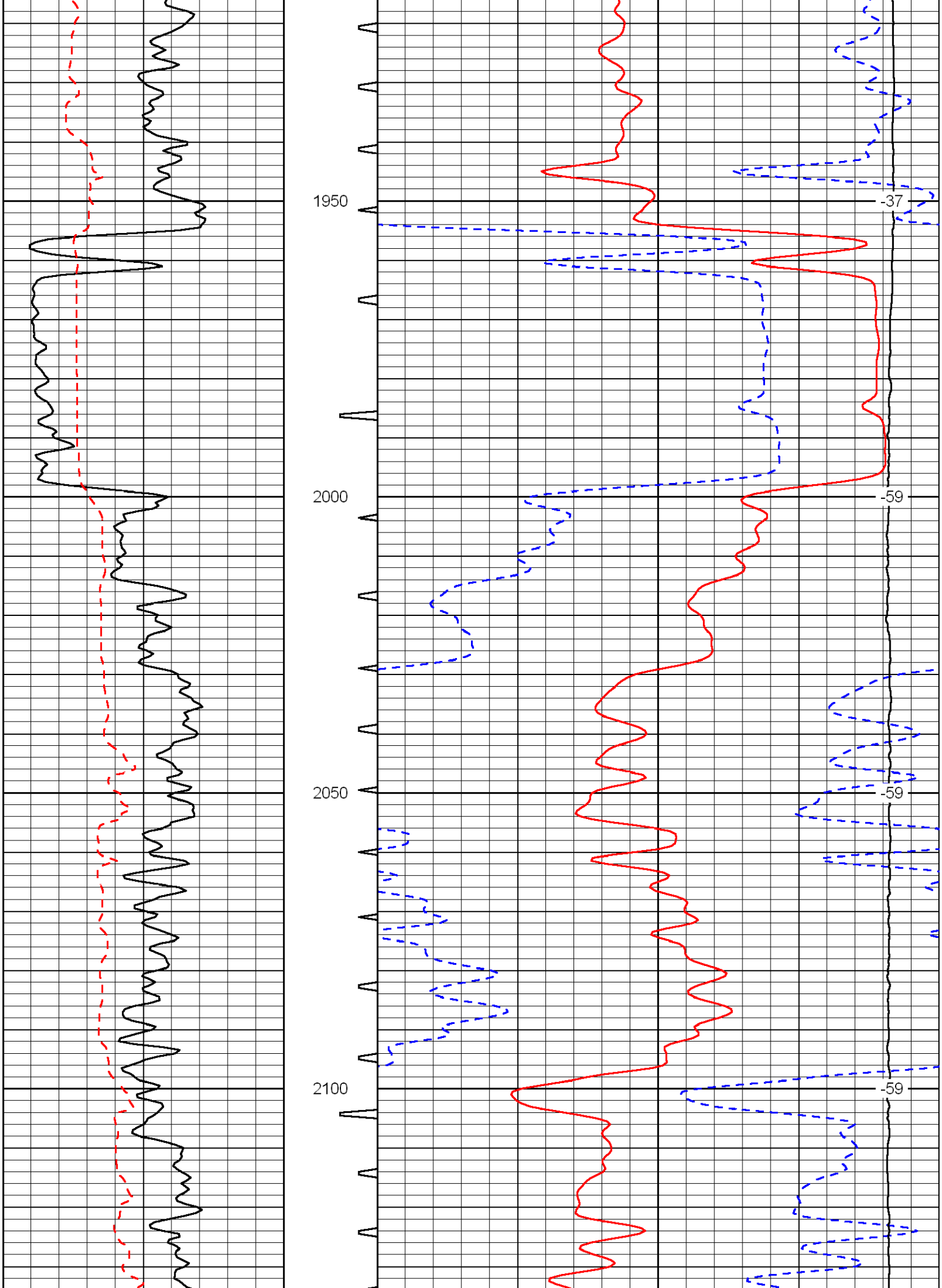

850
900
950
1000
-71
-71
-71

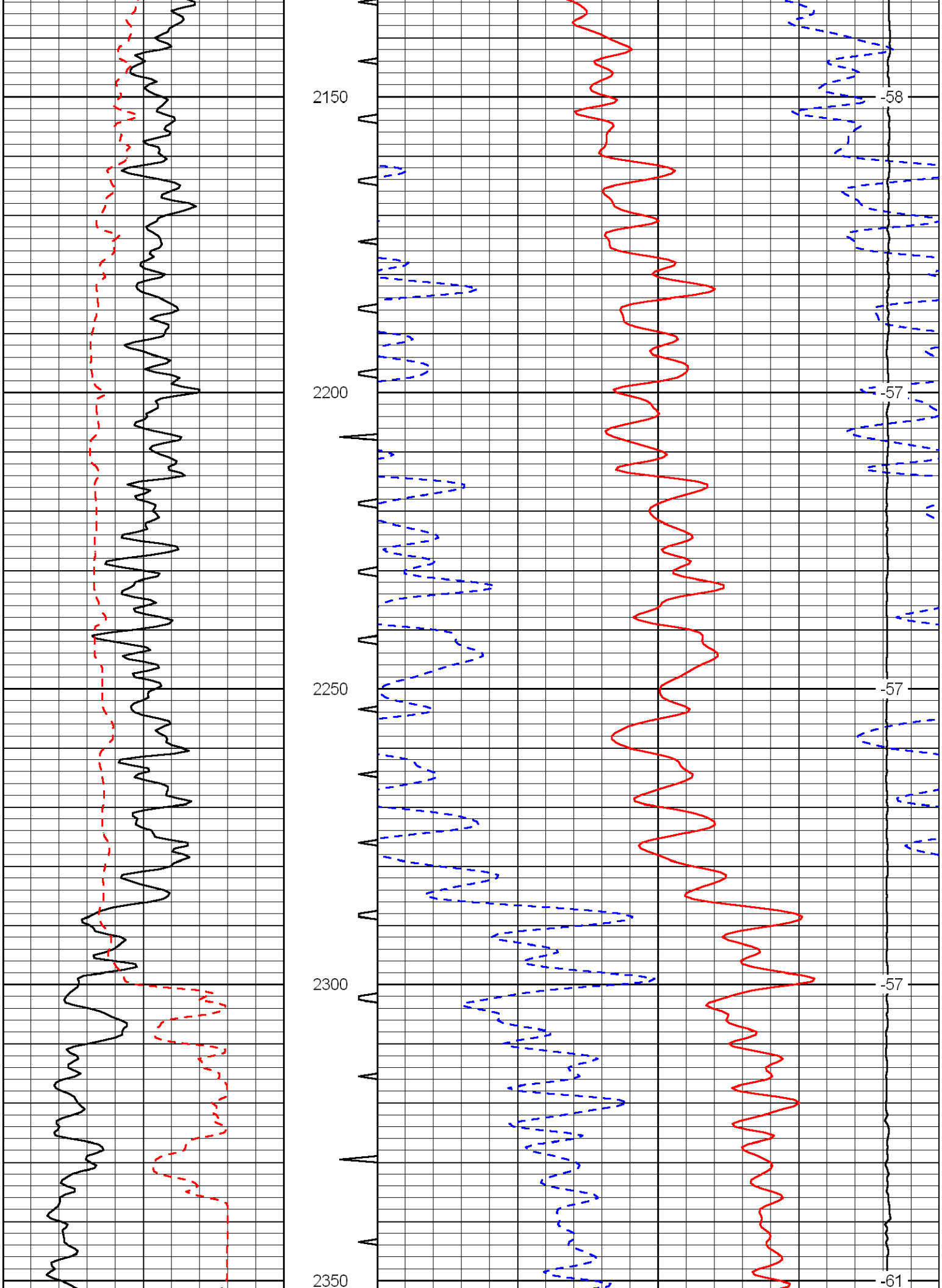

1050
1100
1150
1200
1250
-73
-73
-73
-73
-73

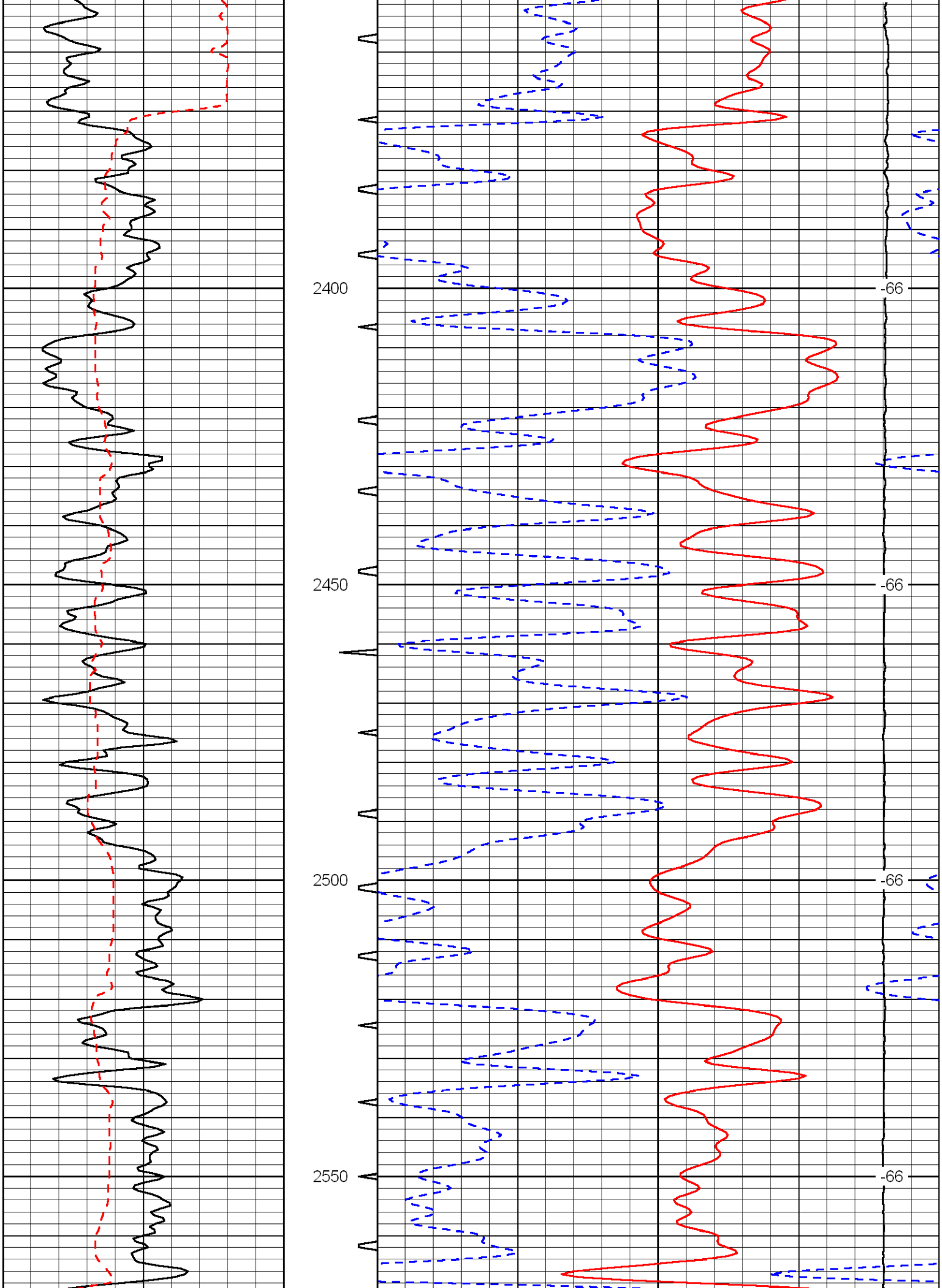

1300
1350
1400
1450
-73
-73
-73
-73

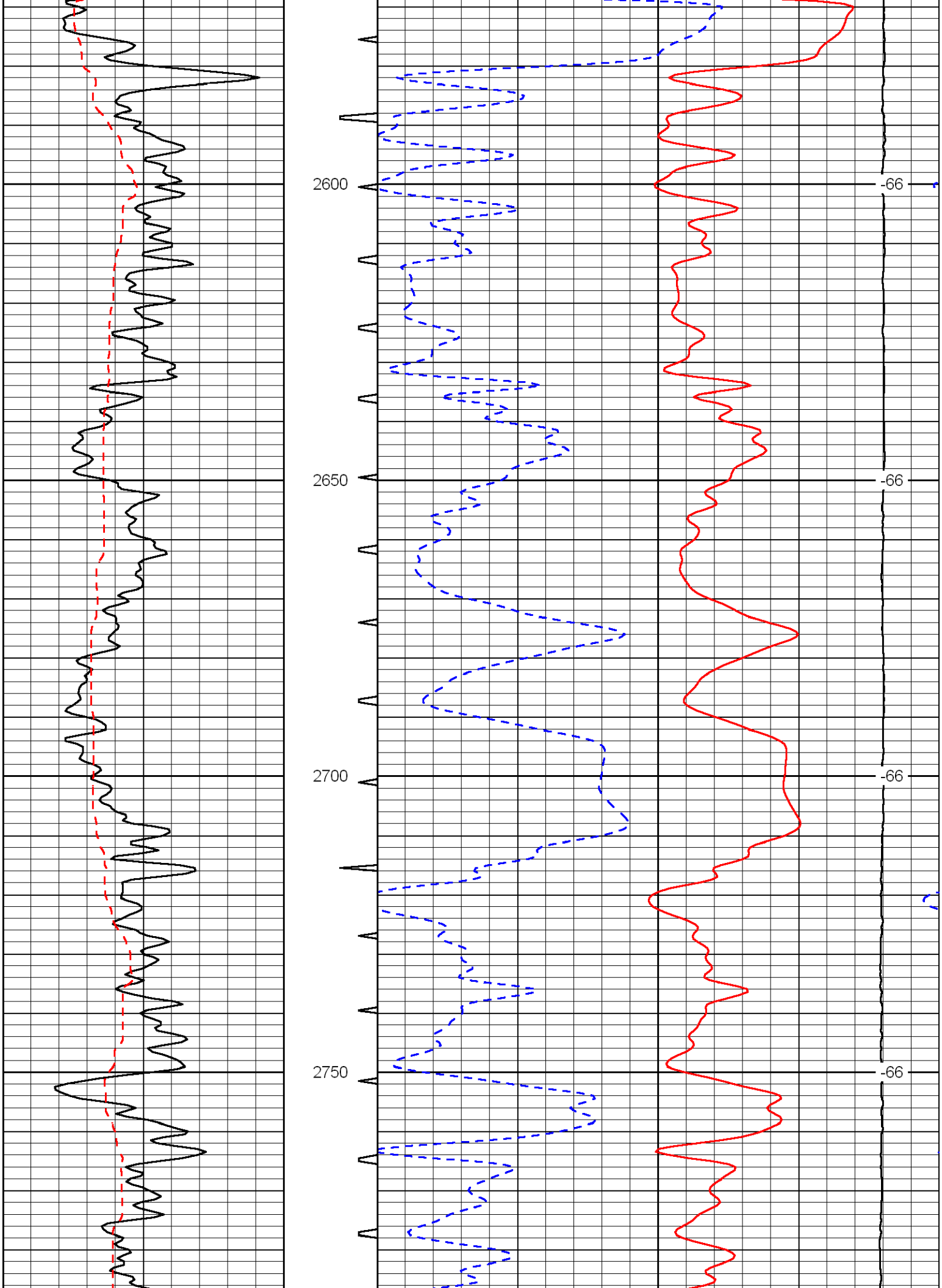

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1600
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-71
-72
-72
-72

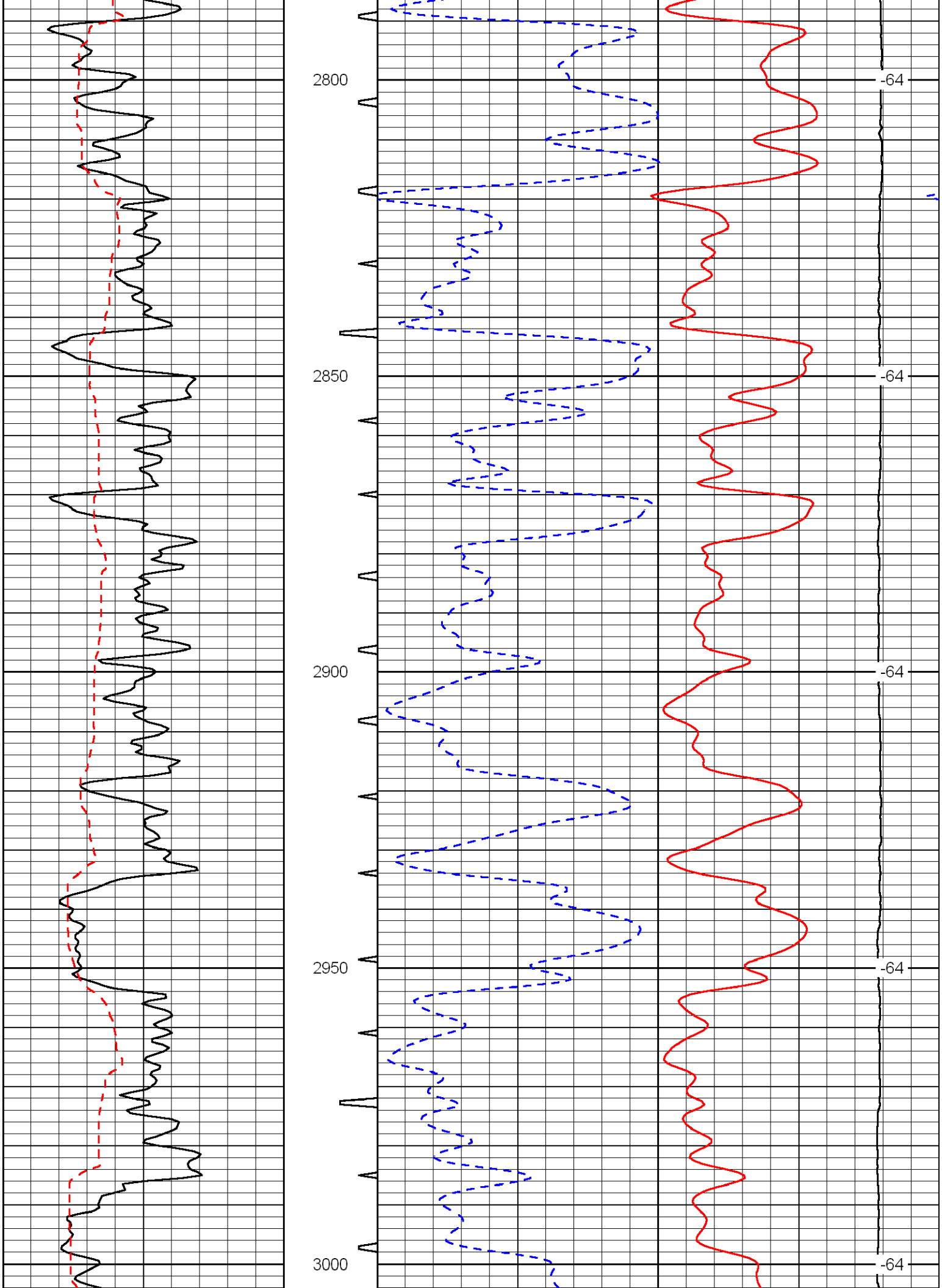

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1750
1800
1850
1900
-71
-71
-71
-71
-71

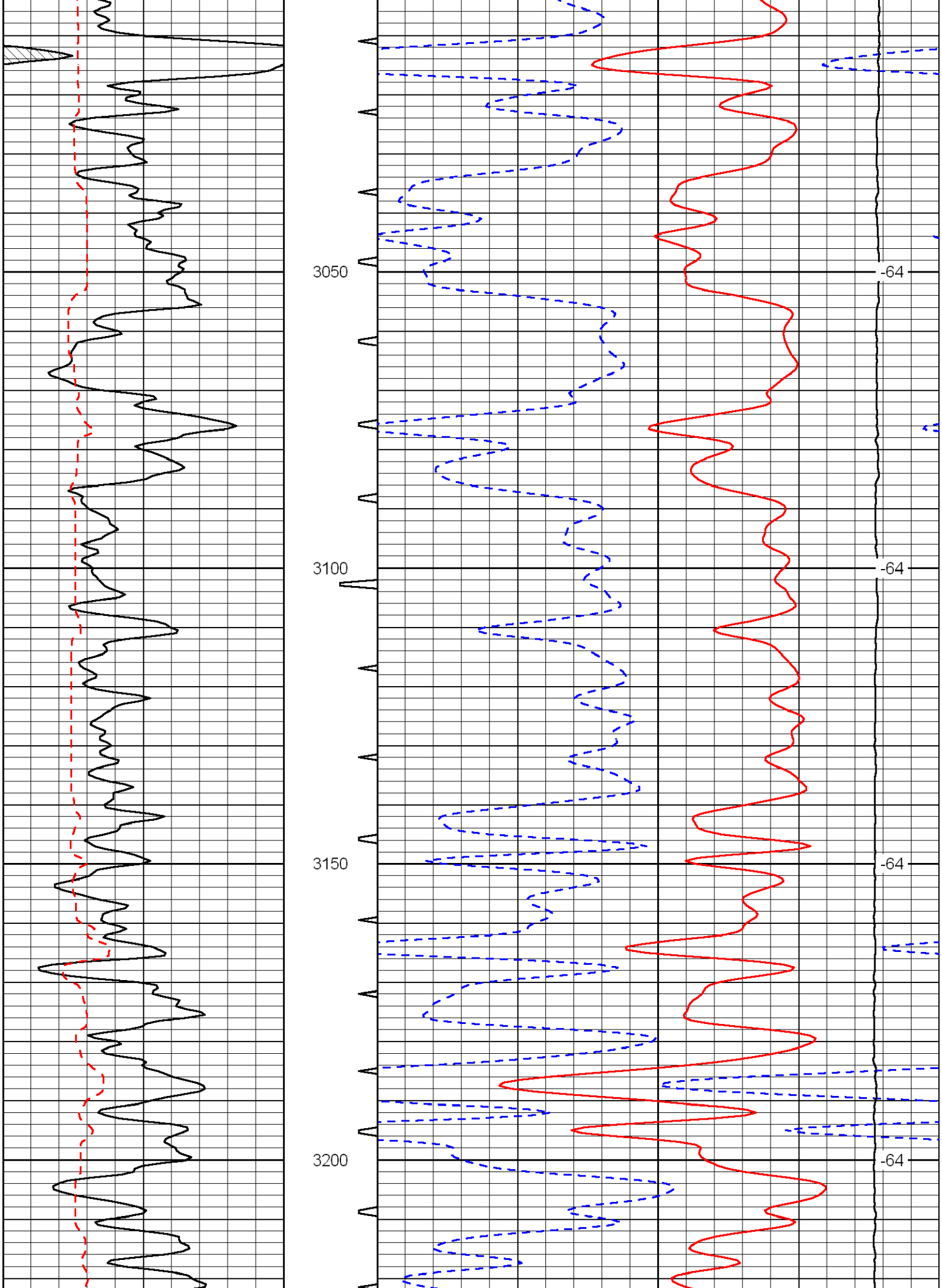

1950
2000
2050
2100
-37
-59
-59
-59

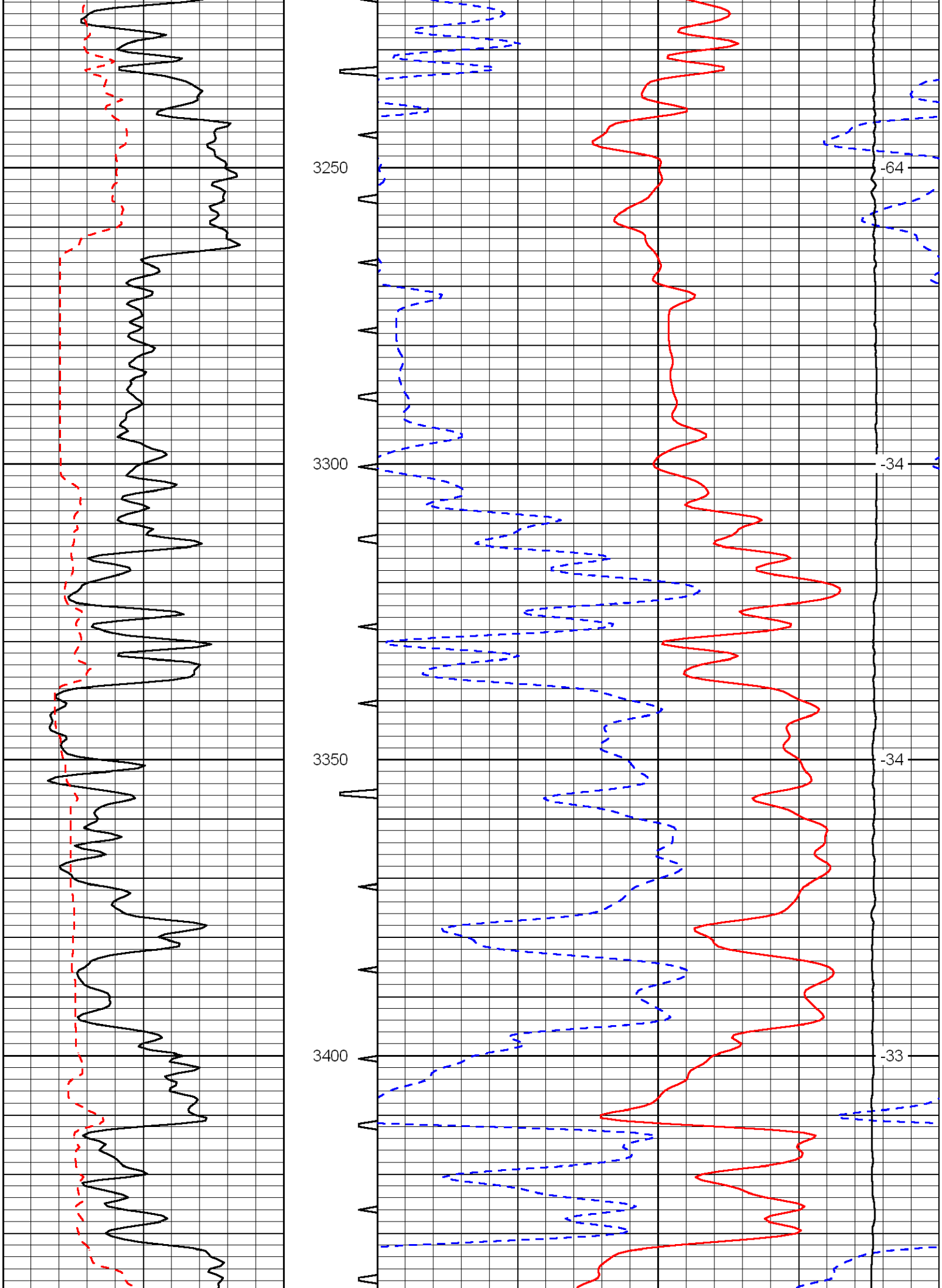

2150
2200
2250
2300
2350
-58
-57
-57
-57
-61

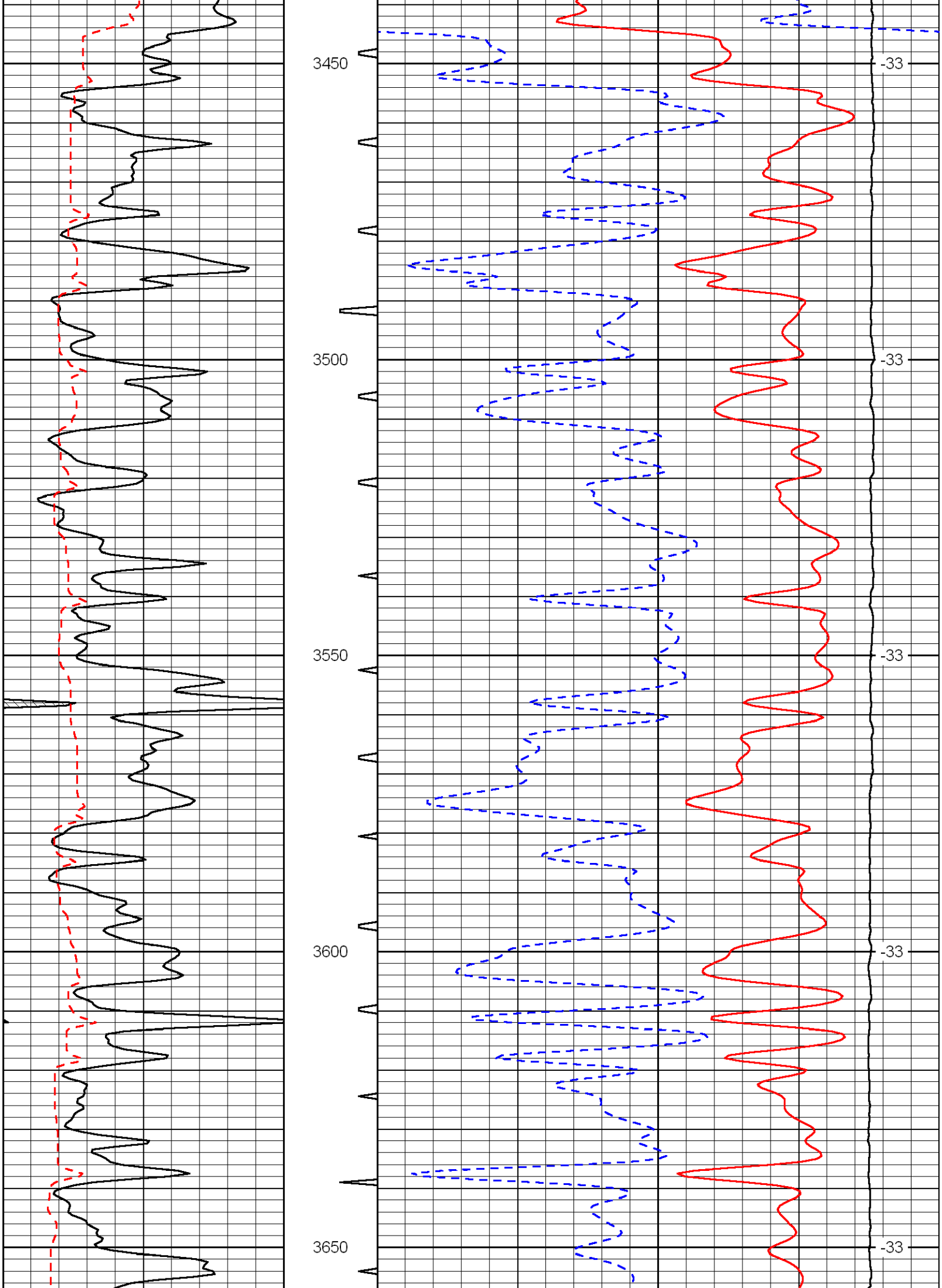

2400
2450
2500
2550
-66
-66
-66
-66

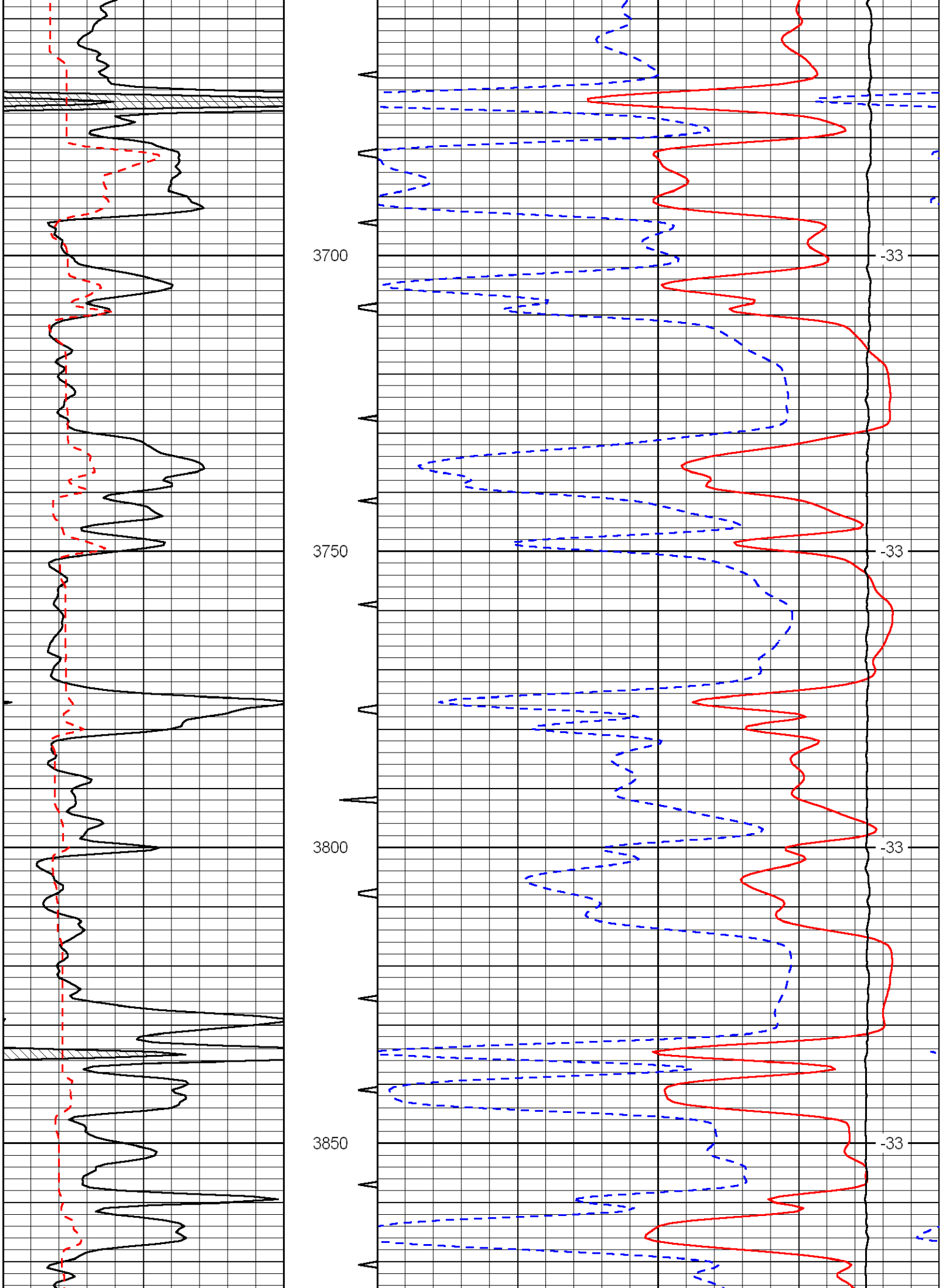

2600
2650
2700
2750
-66
-66
-66
-66

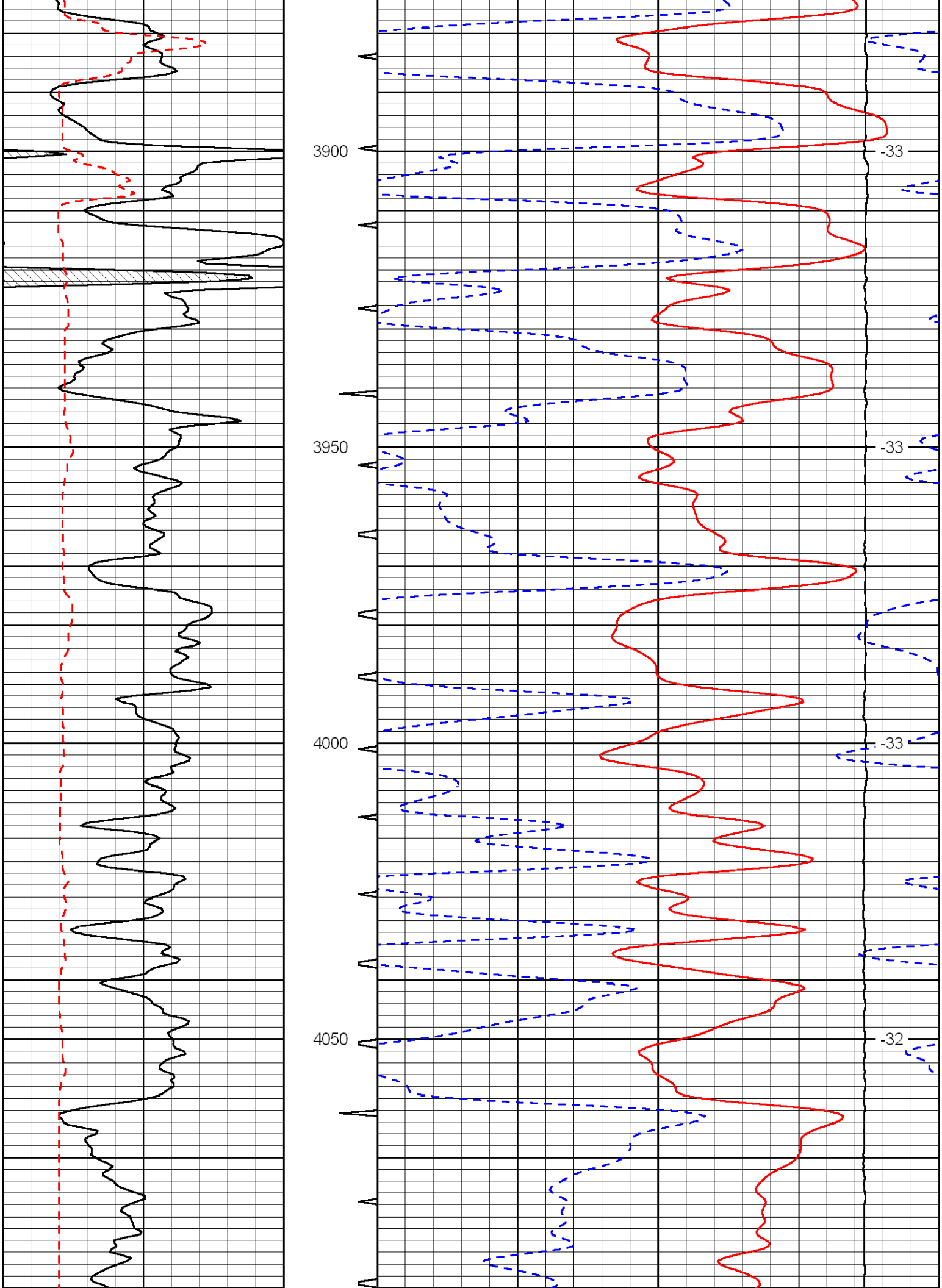

2800
2850
2900
2950
3000
-64
-64
-64
-64

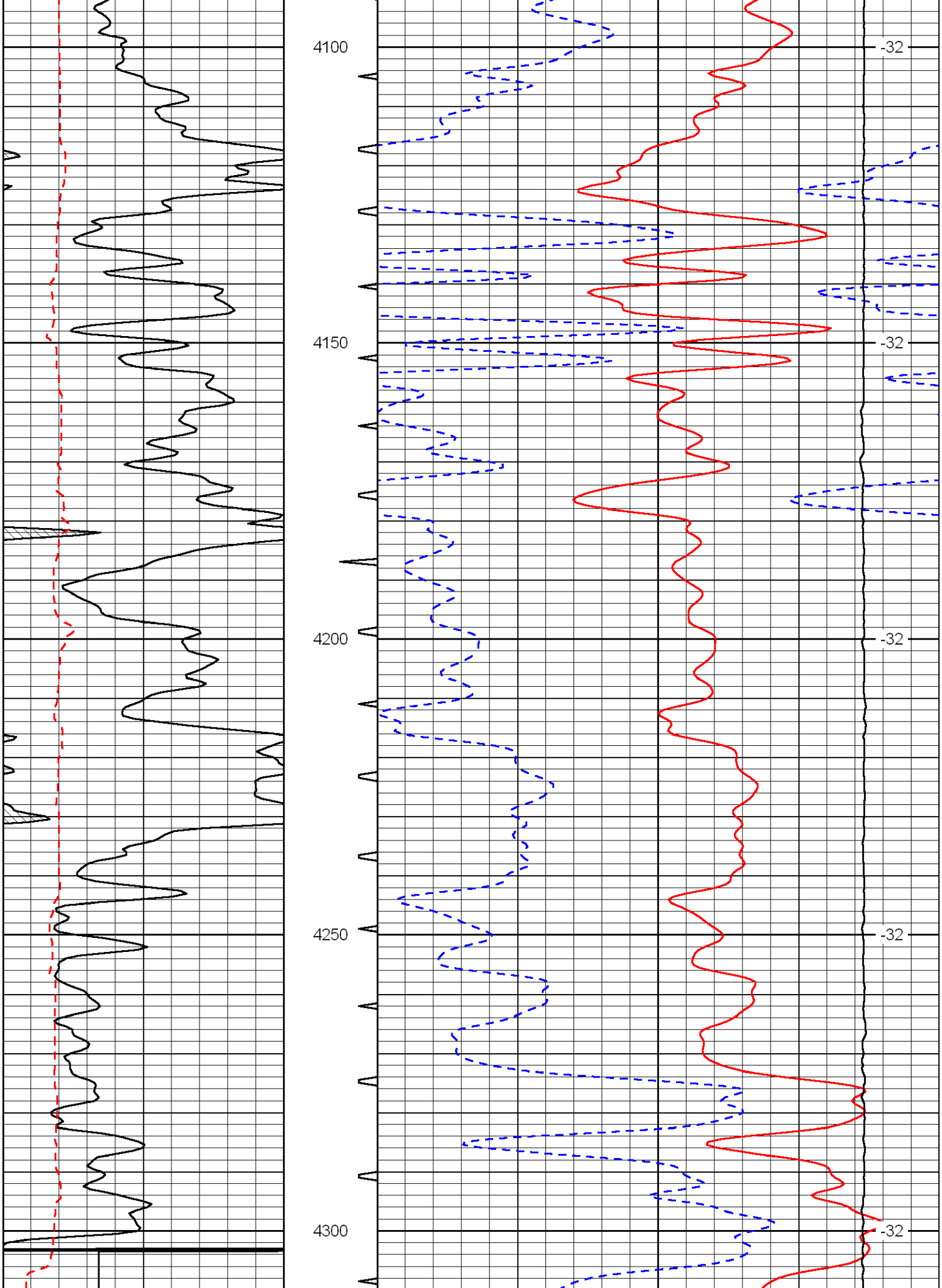

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3100
3150
3200
-64
-64
-64
-64

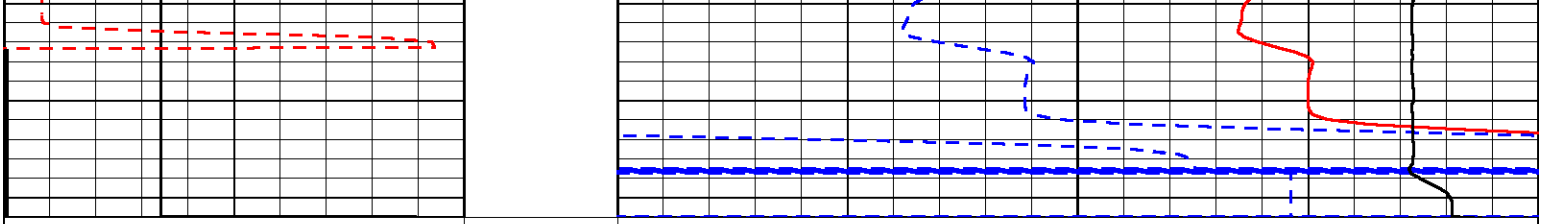

3250
3300
3350
3400
-64
-34
-34
-33


3450
3500
3550
3600
3650
-33
-33
-33
-33


3700
-33
3750
-33
3800
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3850
-33


3900
-33
3950
-33
4000
-33
4050
-32


4100
4150
4200
4250
4300
-32
-32
-32
-32



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