LOG-TECH

DIGITAL LOG (785) 625-3858

Borehole Compensated Sonic Log

API No. 15-083-21,722-00-00

Company Norstar Petroleum, Inc.

Well Phillips-Denny No. 1-4

Field Fossil Ridge

County Hodgeman State Kansas

Location
SE NW NE
1046' FNL & 1777' FEL
Sec: 4 Twp: 22 S Rge: 23 W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 2307
D.F.
G.L. 2302

Permanent Datum Ground Level
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation 2302

Date	8/28/2011
Run Number	Two
Type Log	BHC Sonic
Depth Driller	4700
Depth Logger	4701
Bottom Logged Interval	4690
Top Logged Interval	250
Type Fluid In Hole	Chemical
Salinity, PPM CL	7,400
Density	9.1
Level	Full
Max. Rec. Temp. F	125
Operating Rig Time	4 1/2 Hours
Equipment -- Location	91 Hays
Recorded By	K.Bange
Witnessed By	Brad Rine

Borehole Record

Run No.	Bit	From	To
1	12.25	00	257
2	7.875	257	4700

Casing Record

Size	Wgt.	From	To
8.625	24#	00	257

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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

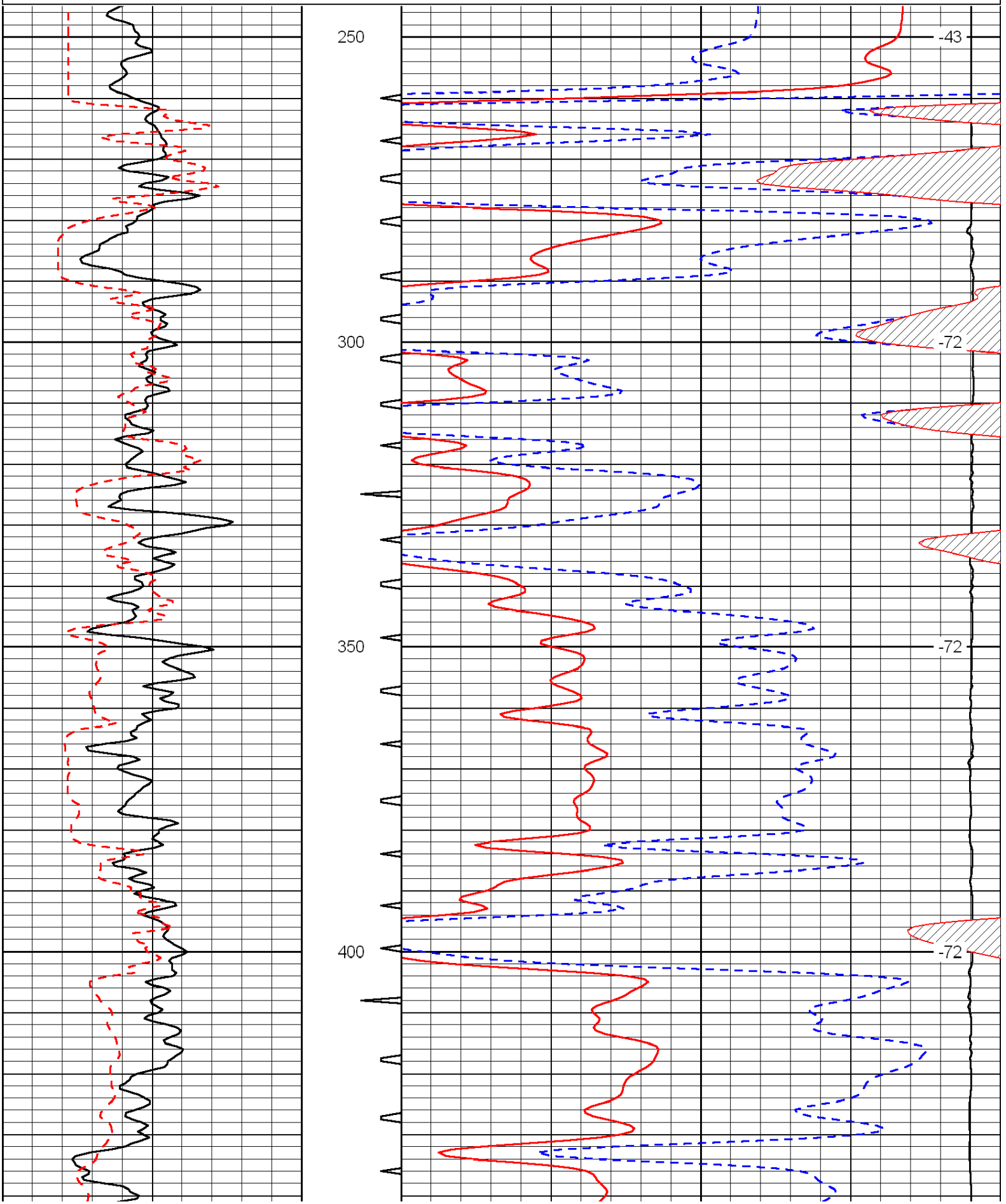
Thank you for using Log-Tech, Inc.
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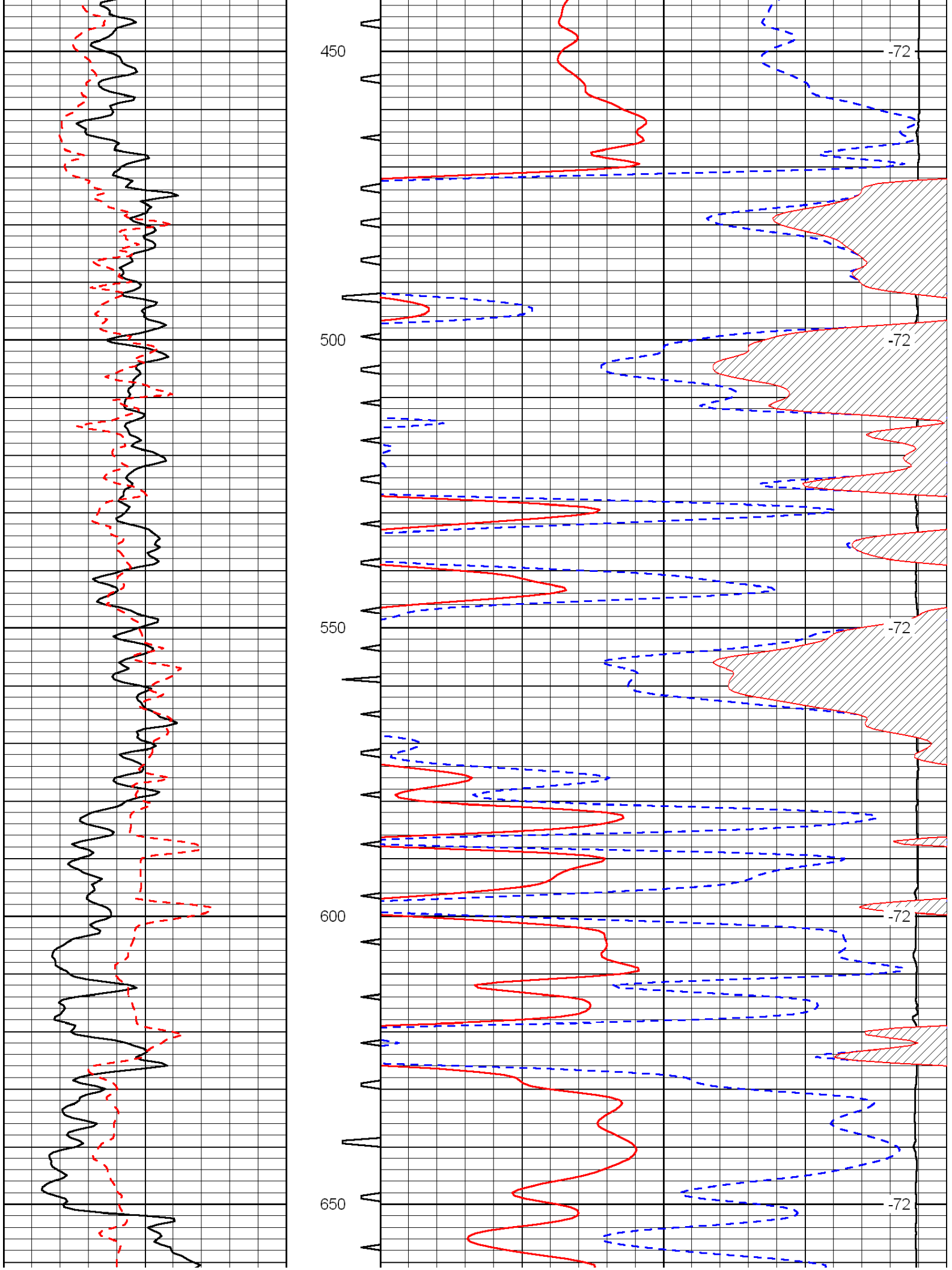
Ness City South to S Rd.
East 2 1/2
South into

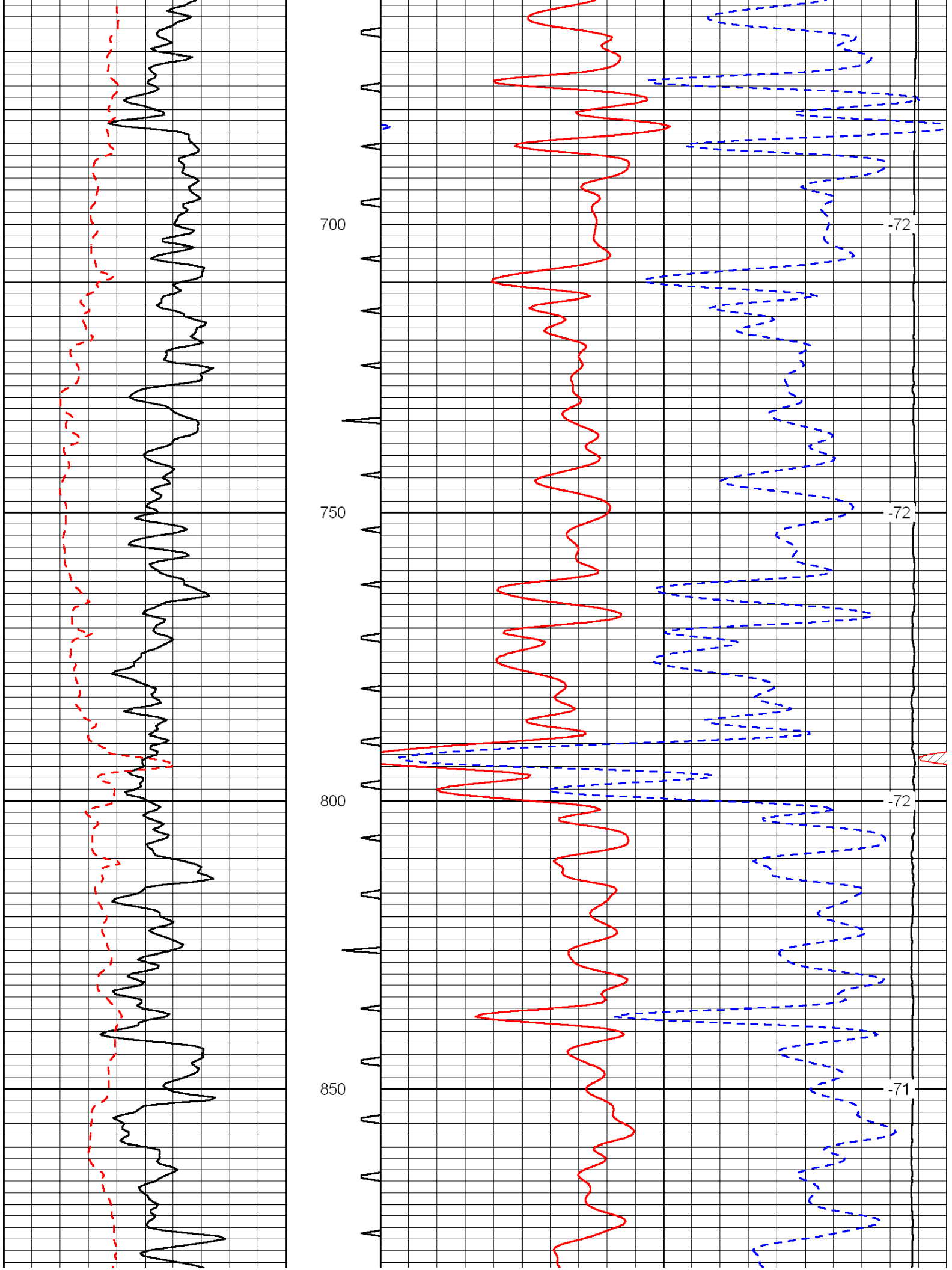
Database File:	c:\warrior\data\norstar_phillips-denny no. 1-4\norstar082811hd.db
Dataset Pathname:	dil/norstack
Presentation Format:	sonic
Dataset Creation:	Sun Aug 28 14:58:12 2011
Charted by:	Depth in Feet scaled 1:240

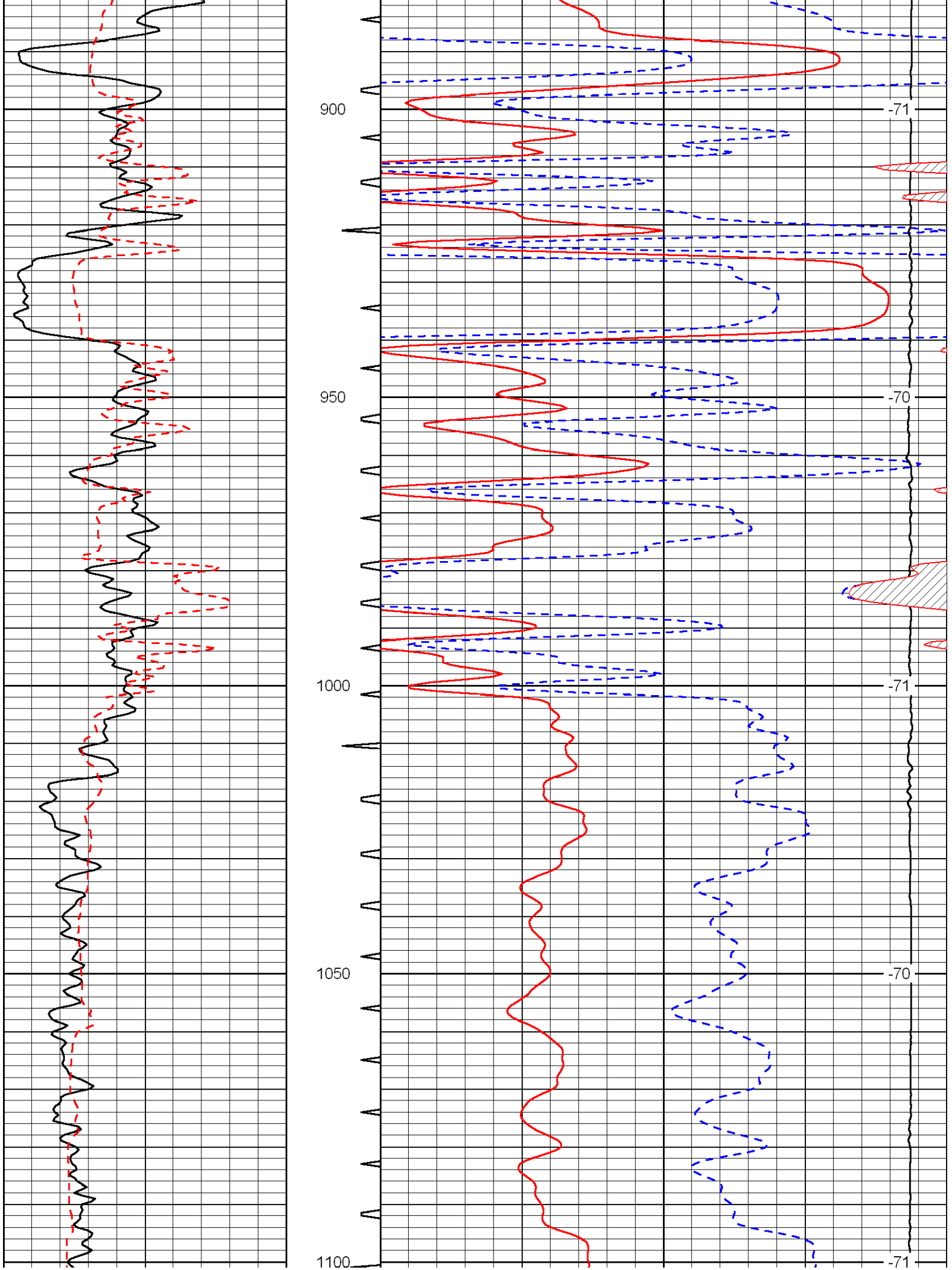
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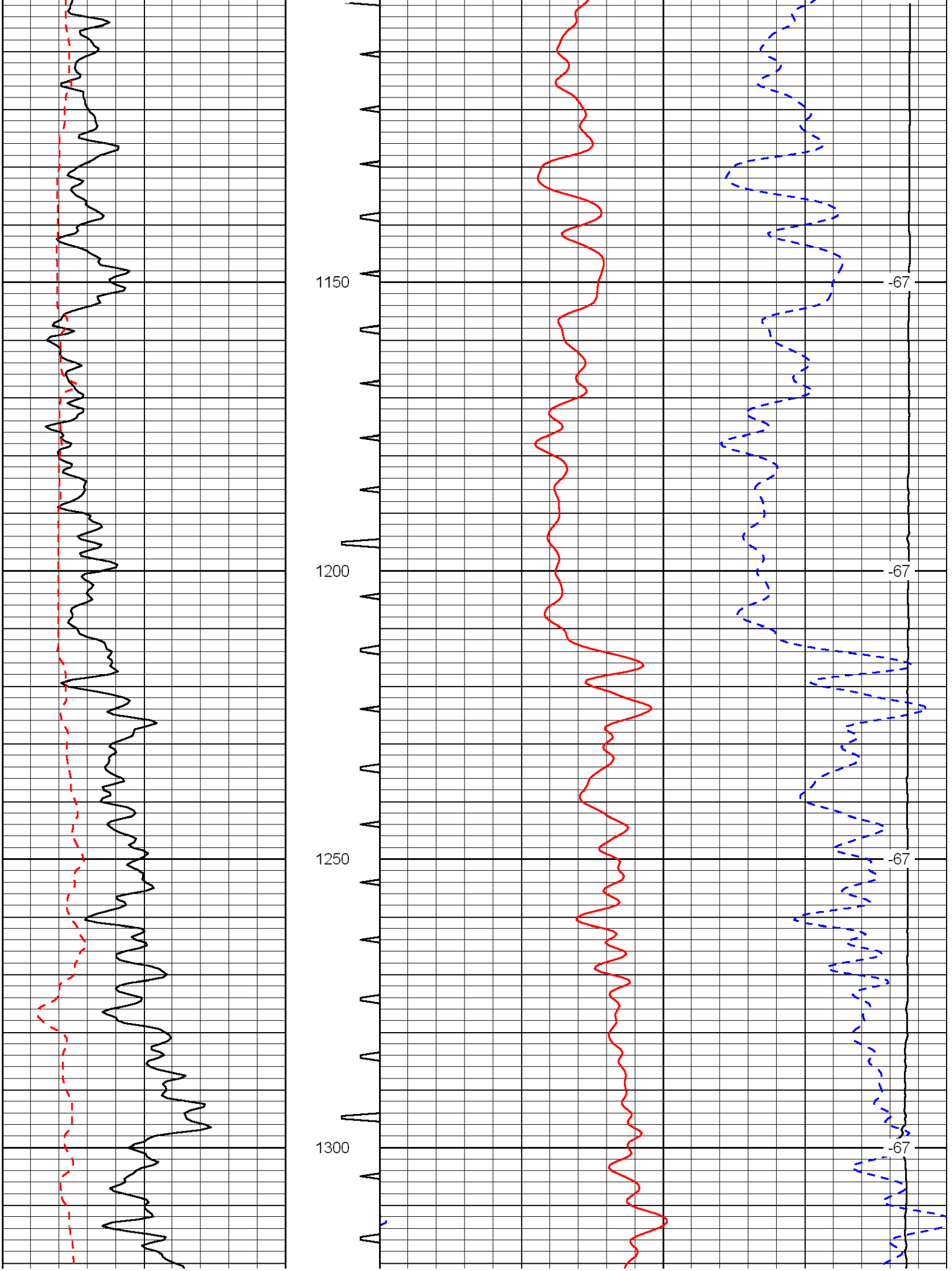
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40	
150	Gamma Ray	300	5 0	30	SPOR	-10	
6	Caliper (GAPI)	16		15000	LTEN (lb)	0	
							LSPD

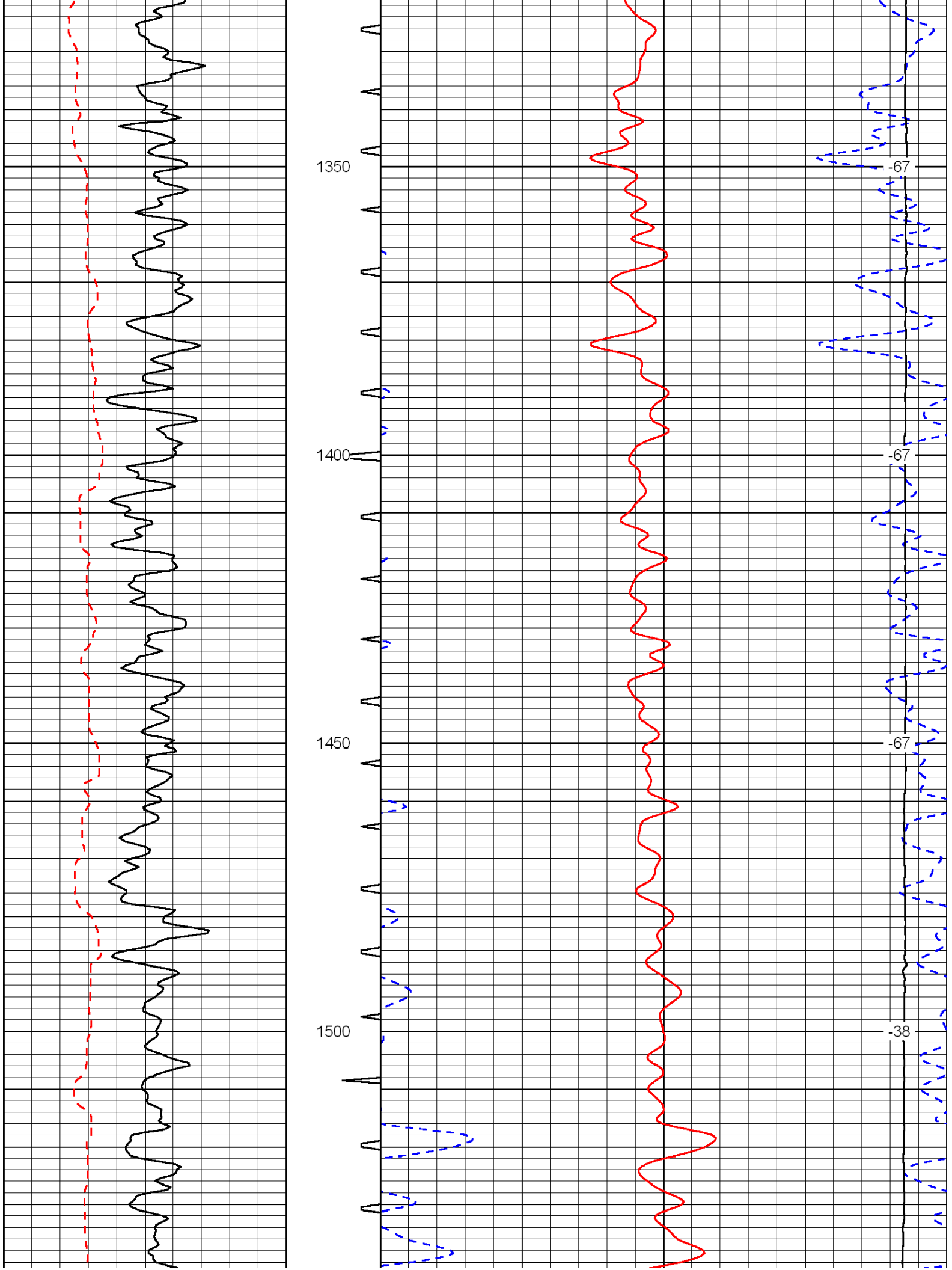


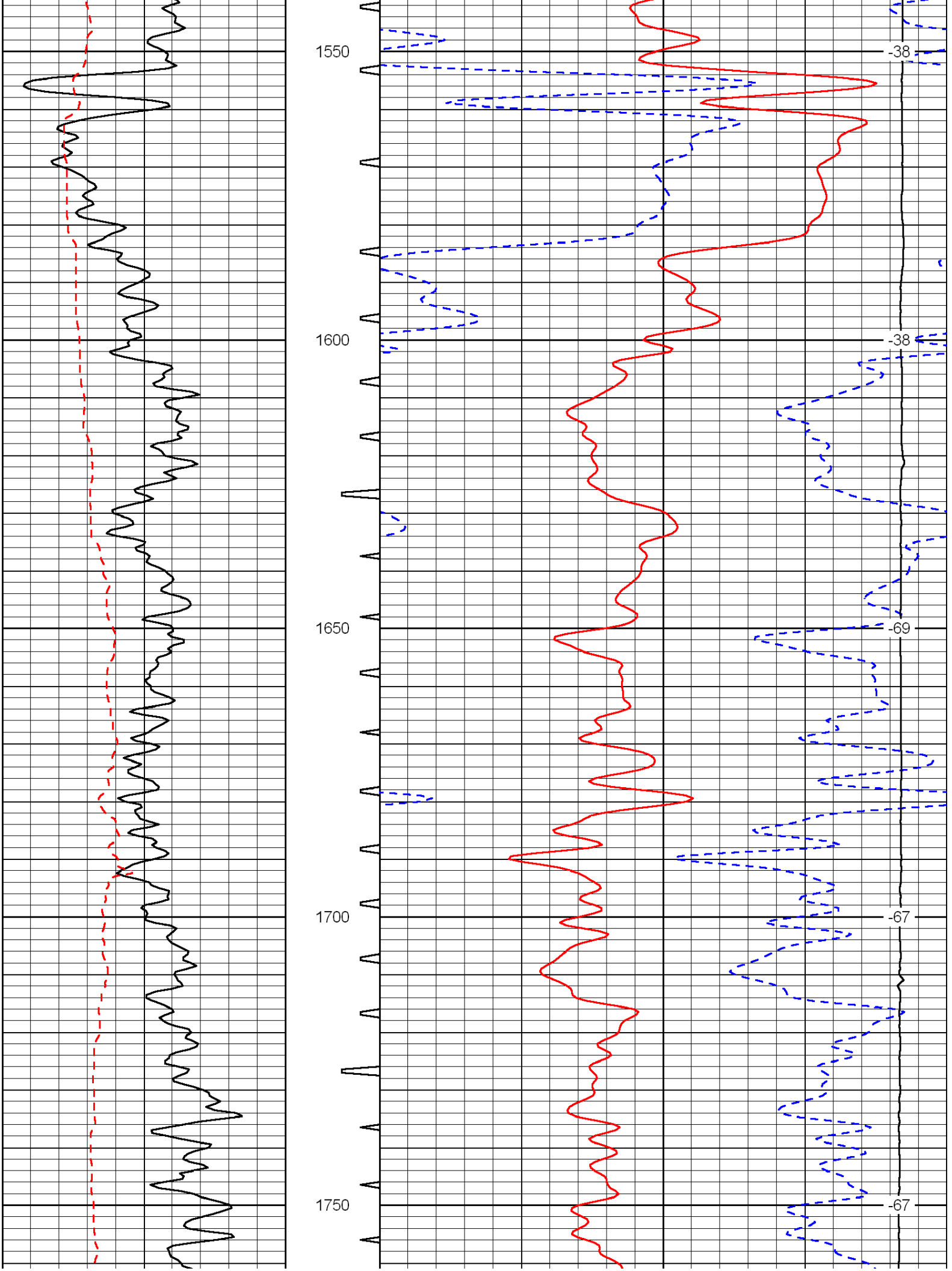

450
500
550
600
650
-72
-72
-72
-72
-72

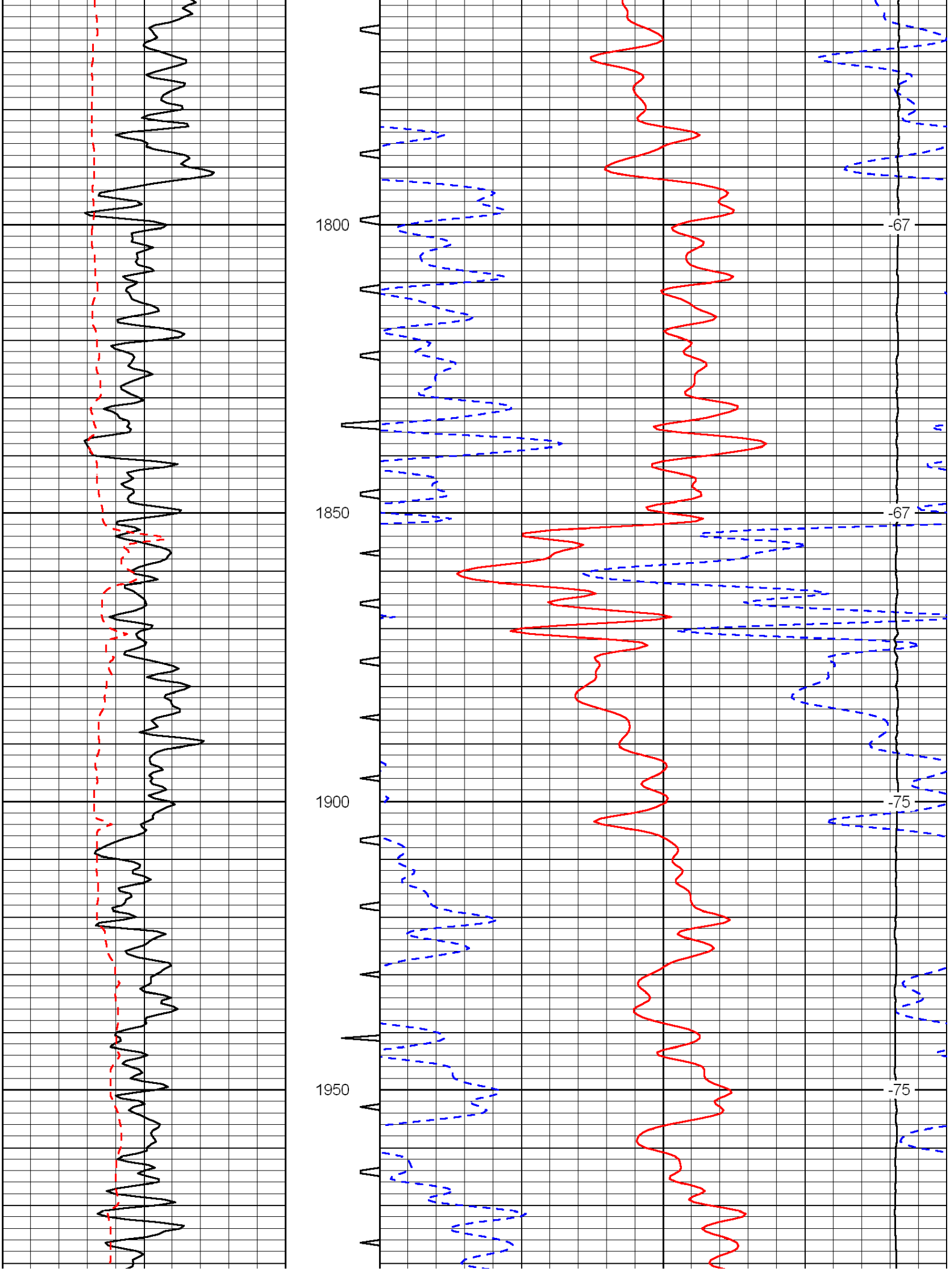

700
750
800
850
-72
-72
-72
-71

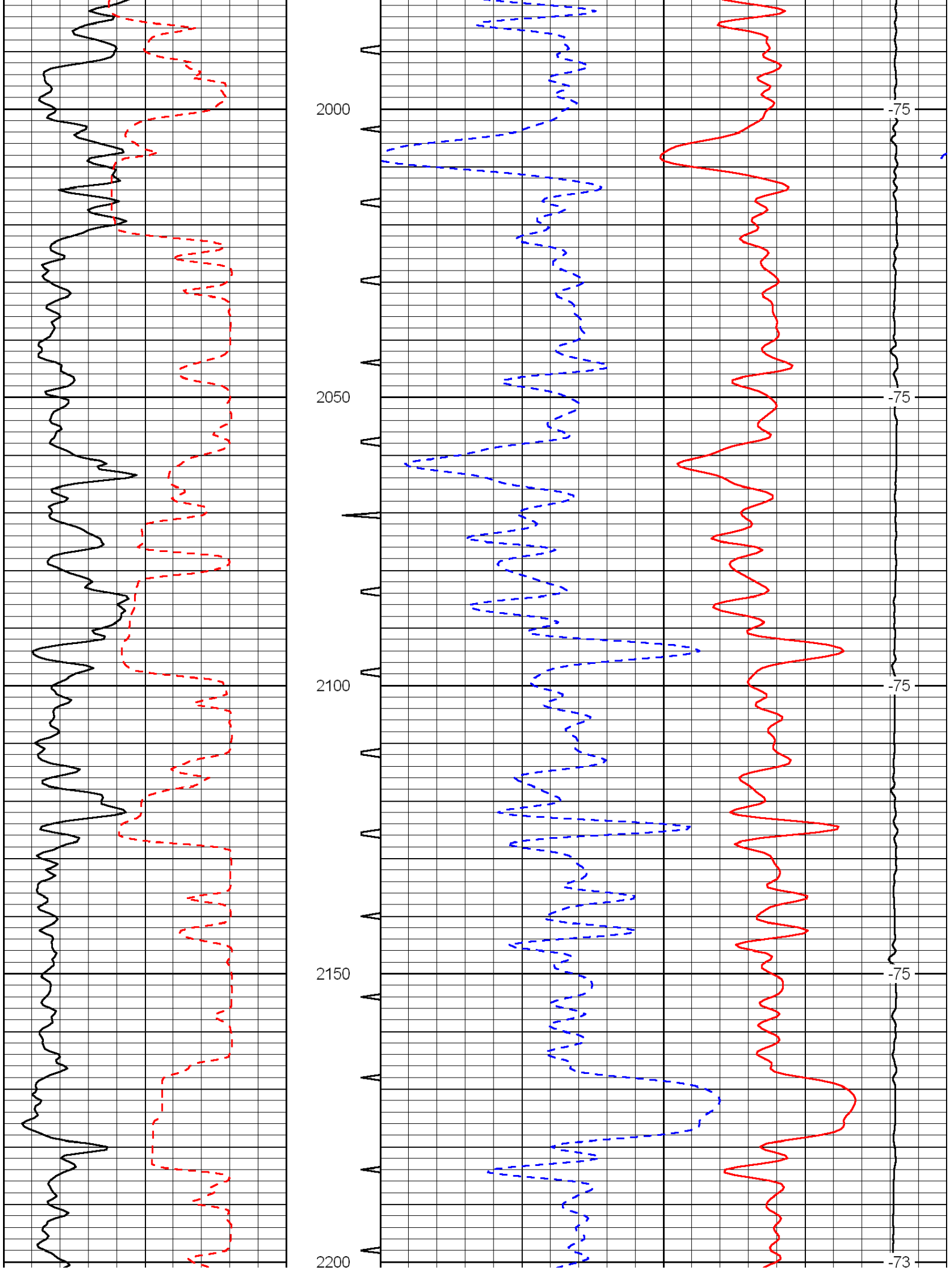

900
950
1000
1050
1100
-71
-70
-71
-70
-71

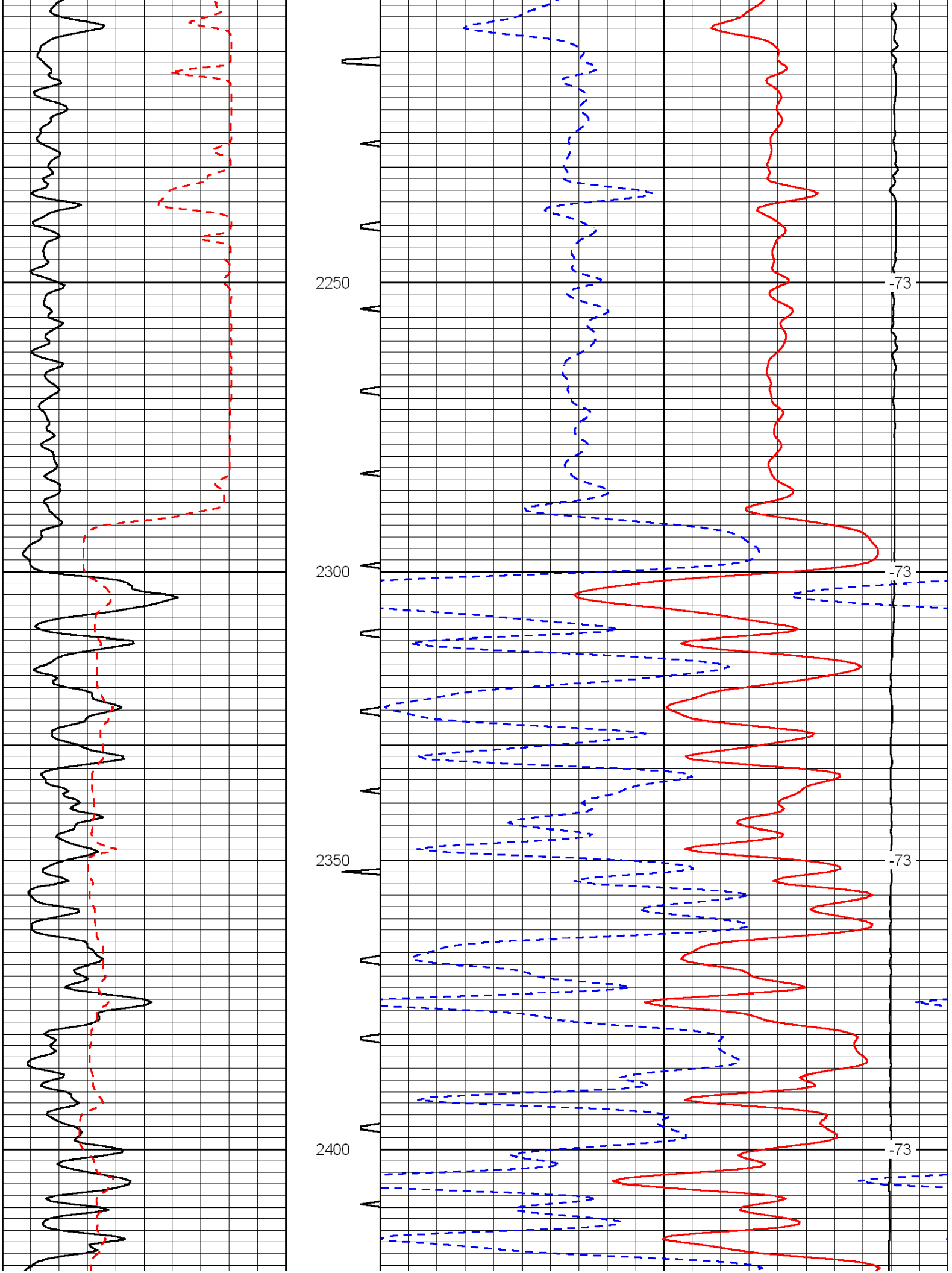

1150
1200
1250
1300
-67
-67
-67
-67

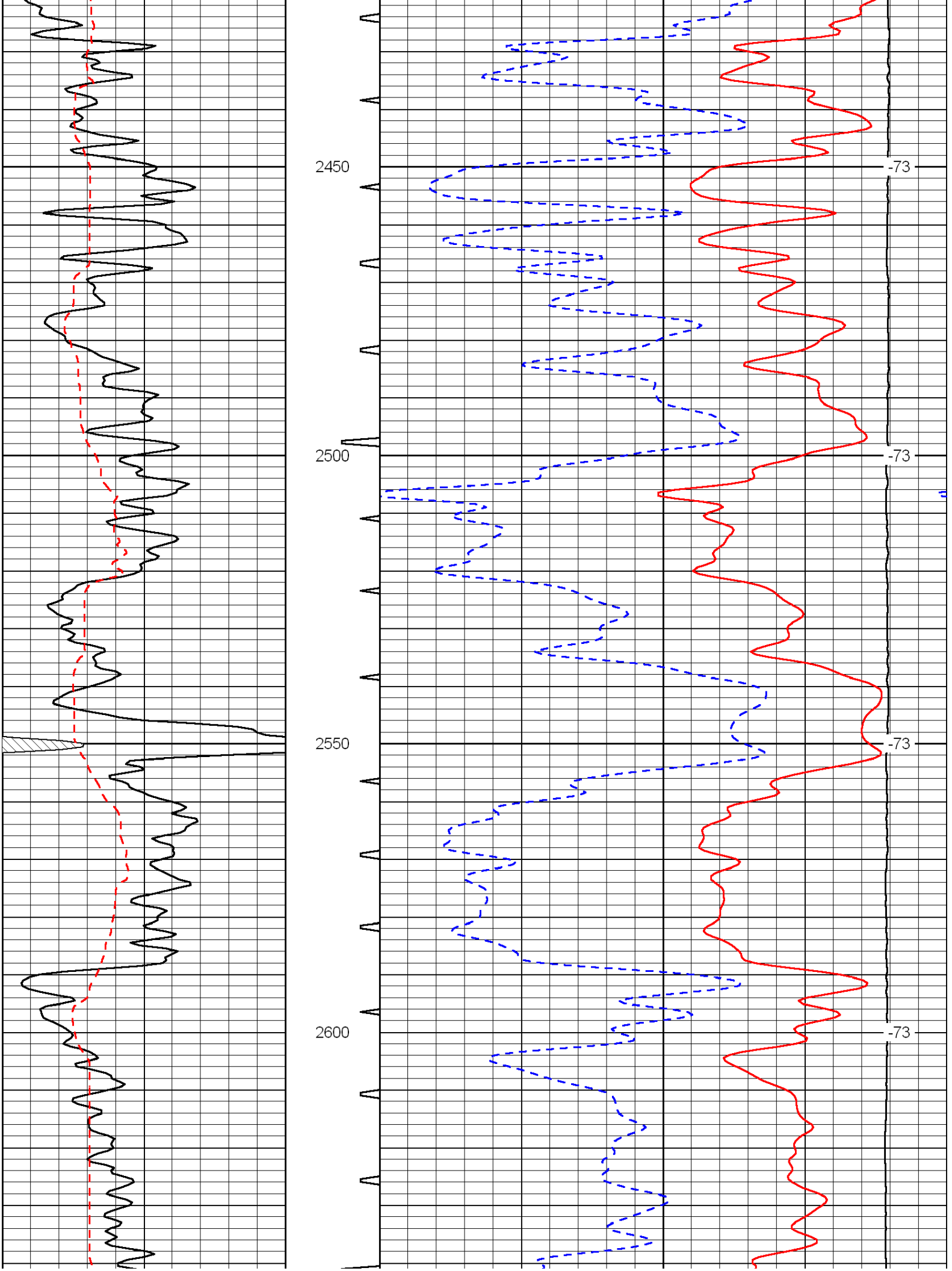

1350
1400
1450
1500
-67
-67
-67
-38

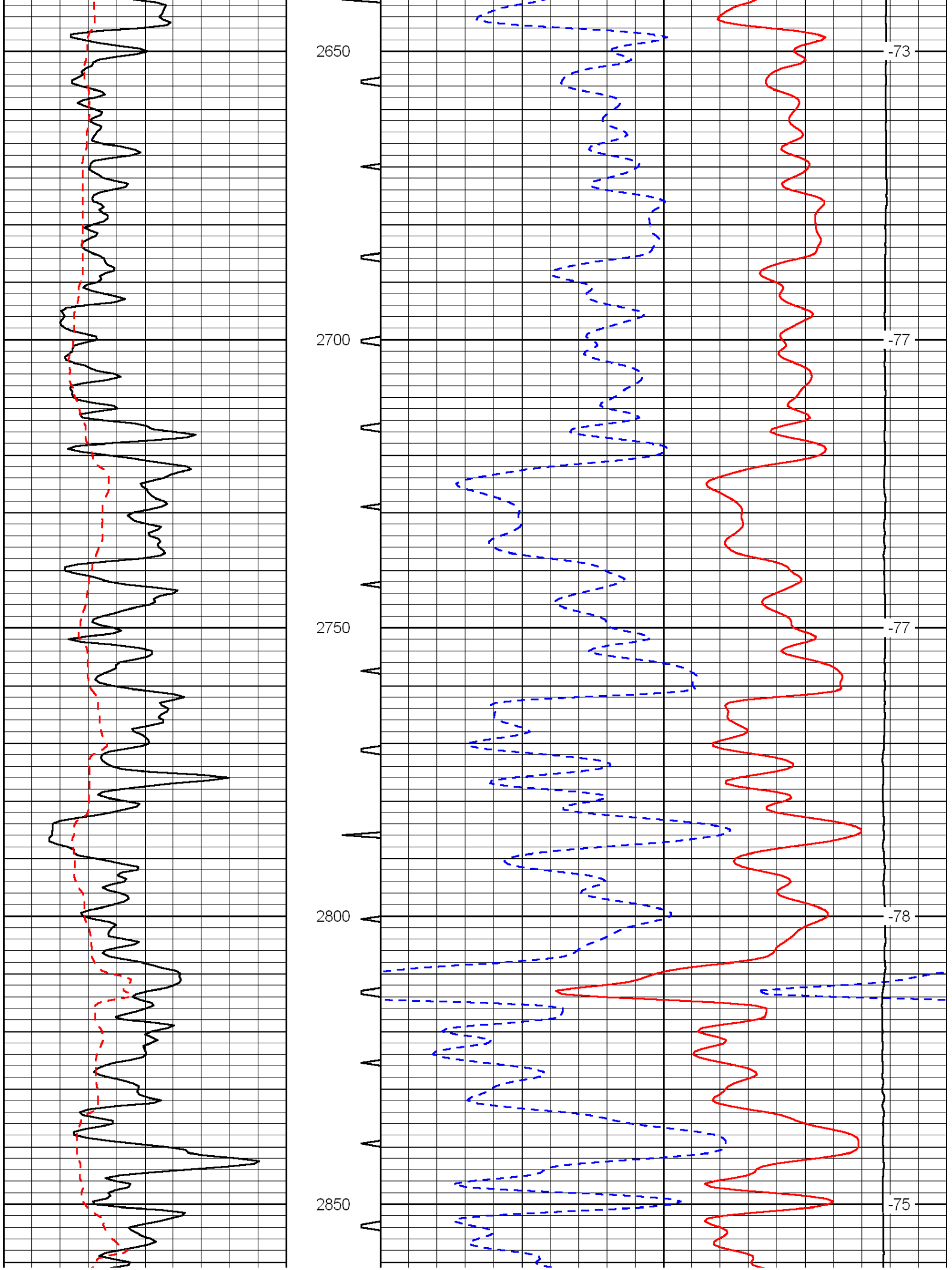

1550
1600
1650
1700
1750
-38
-38
-69
-67
-67

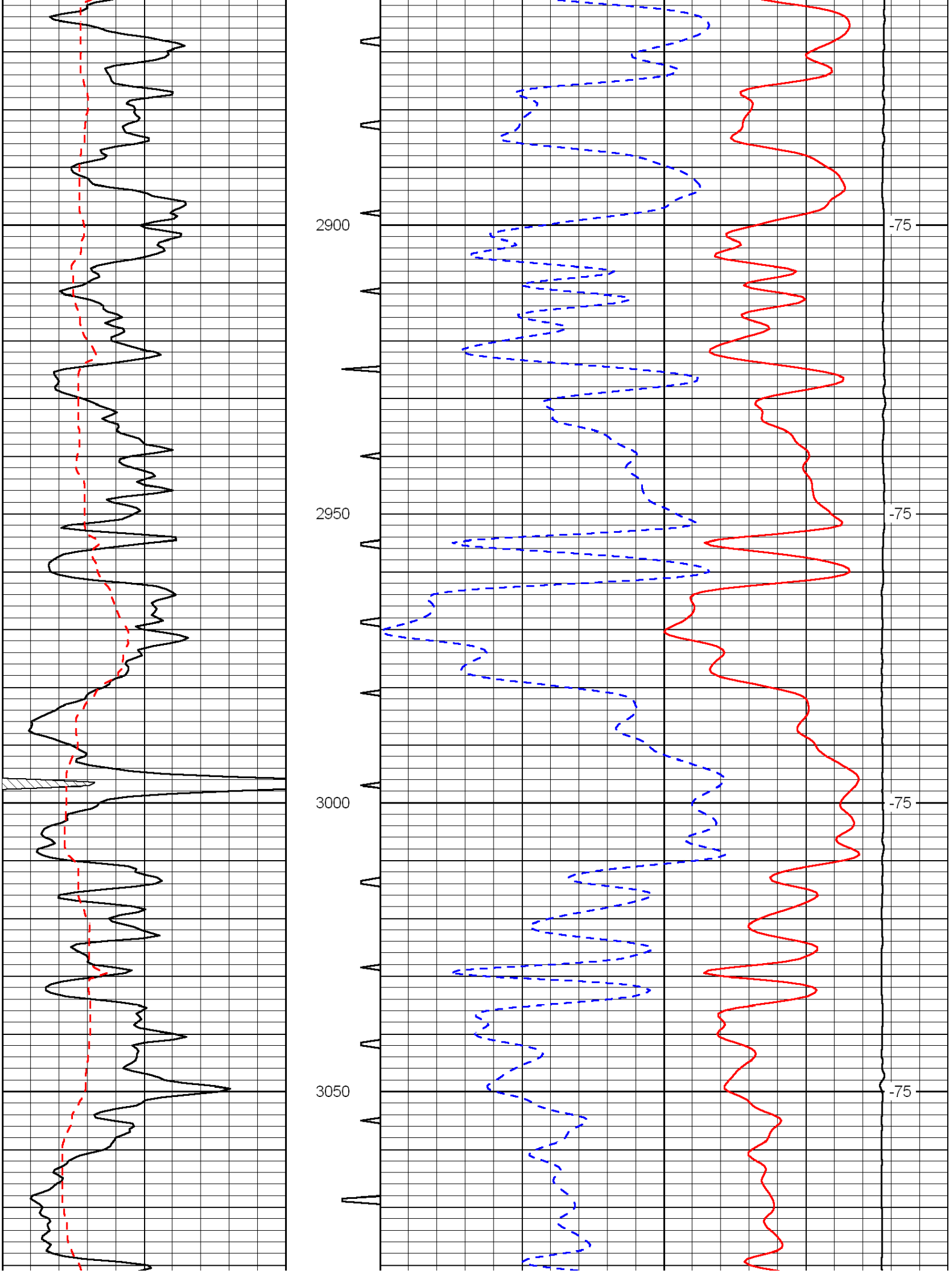

1800
1850
1900
1950
-67
-67
-75
-75

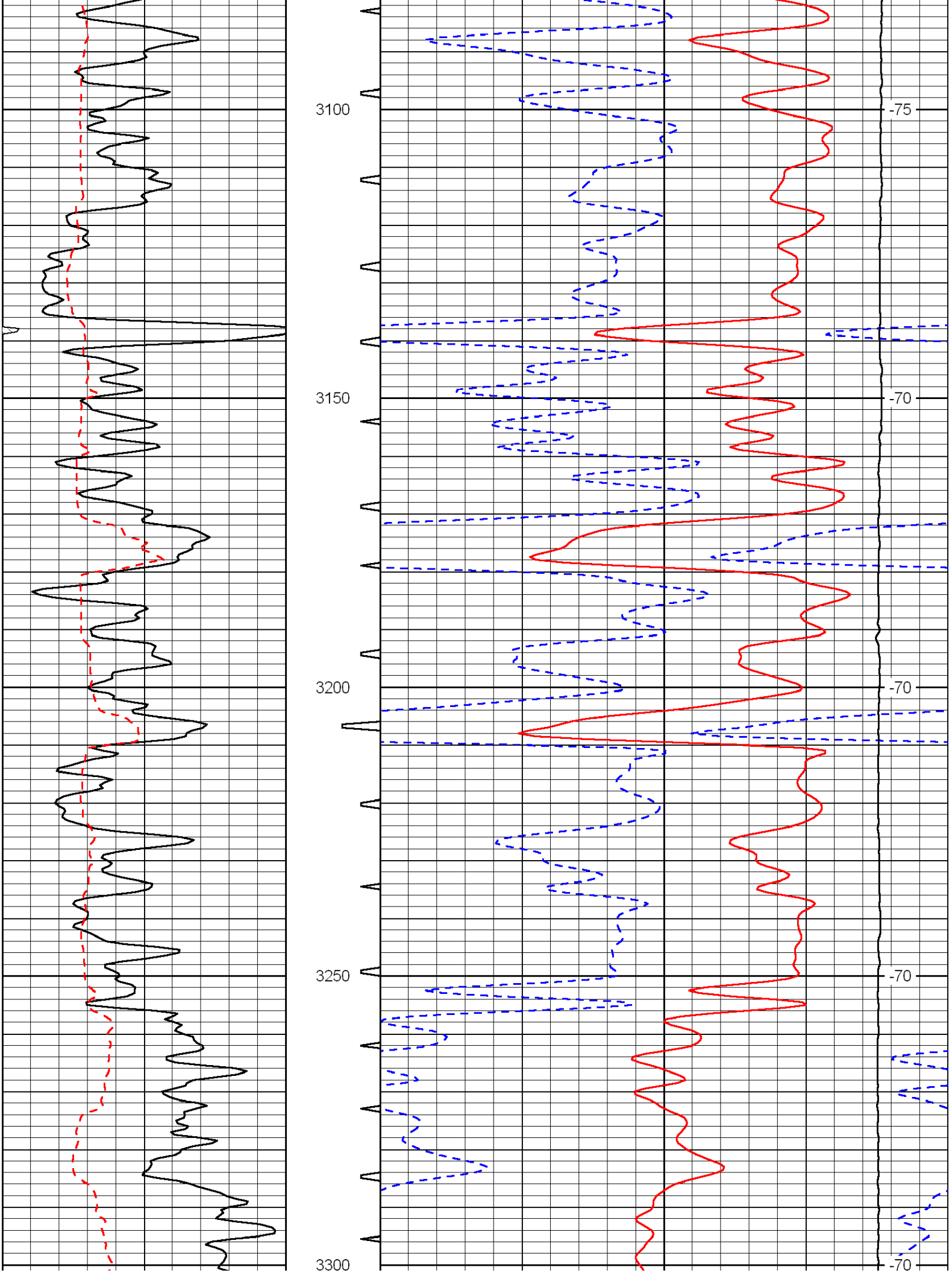

2000
2050
2100
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2200
-75
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-75
-73

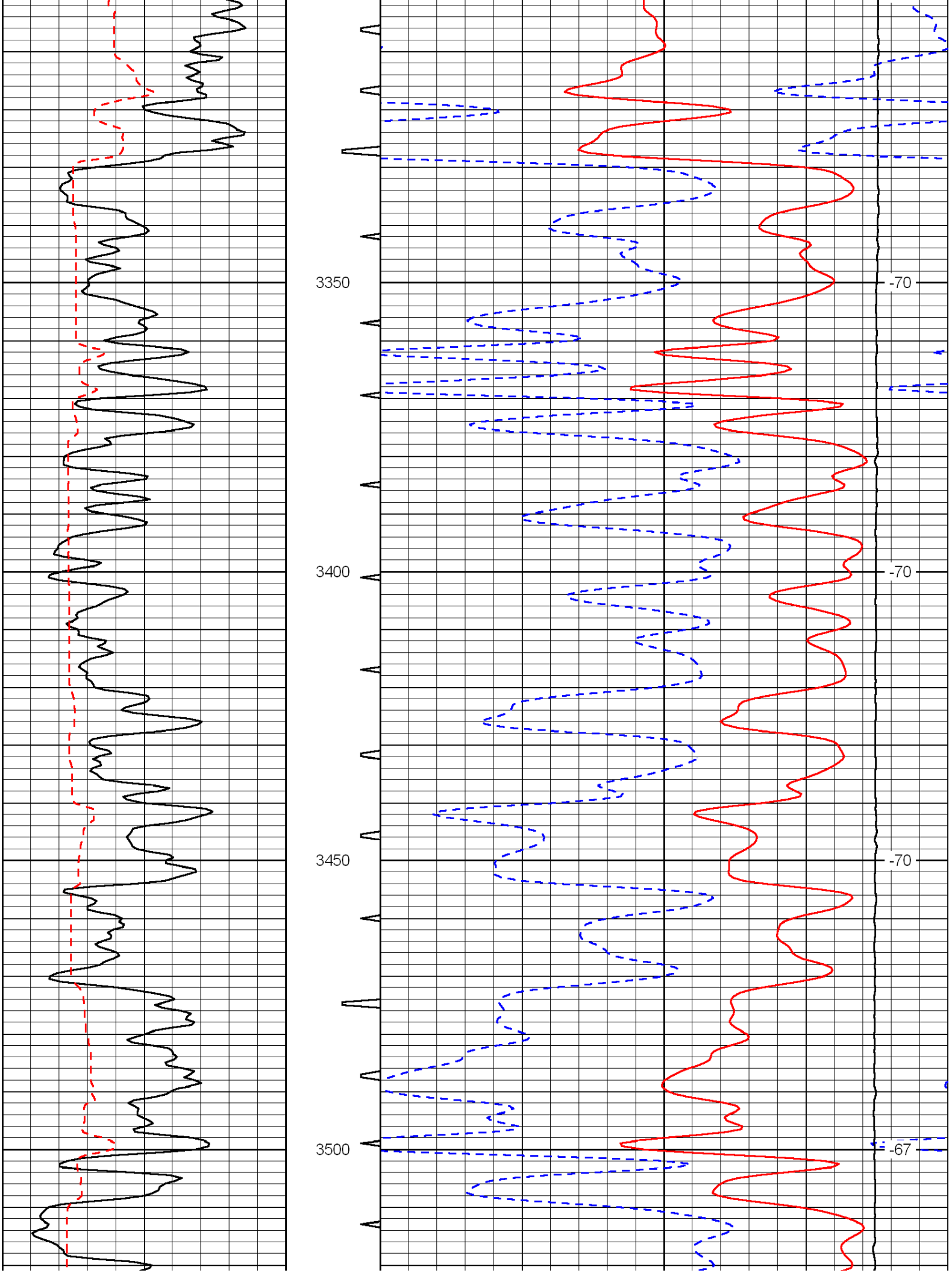

2250
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2400
-73
-73
-73
-73

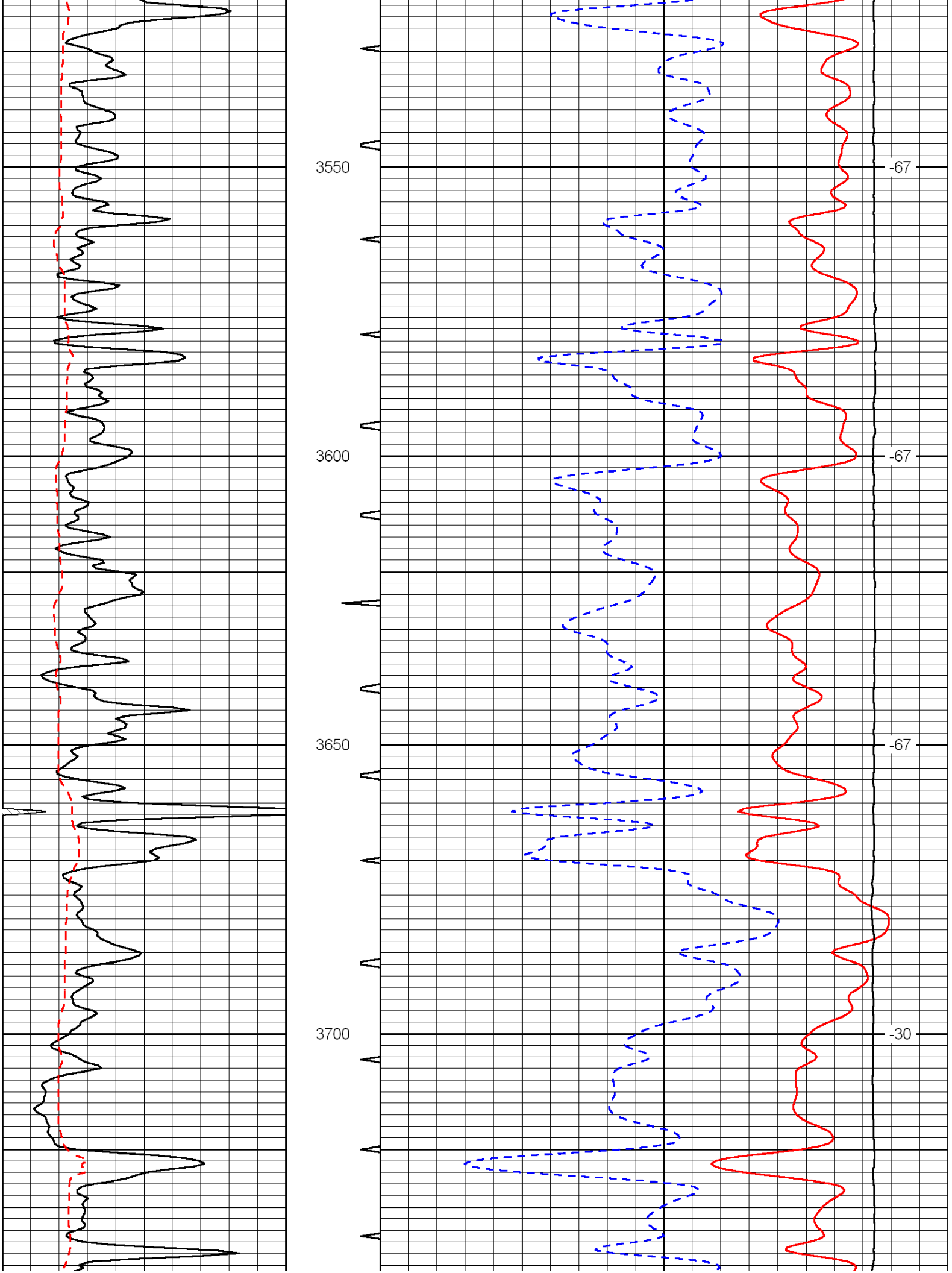

2450
2500
2550
2600
-73
-73
-73
-73

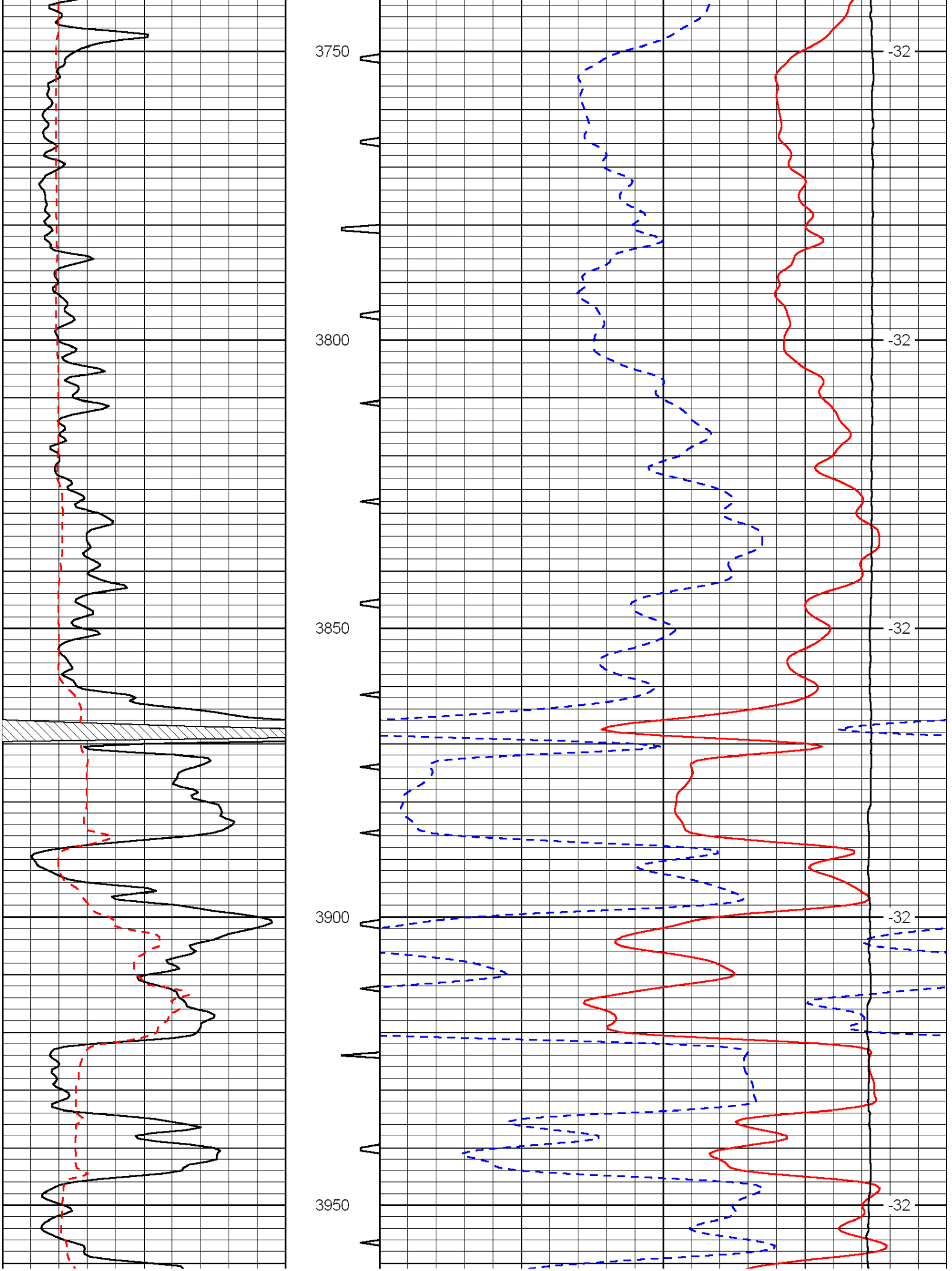

2650
2700
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2800
2850
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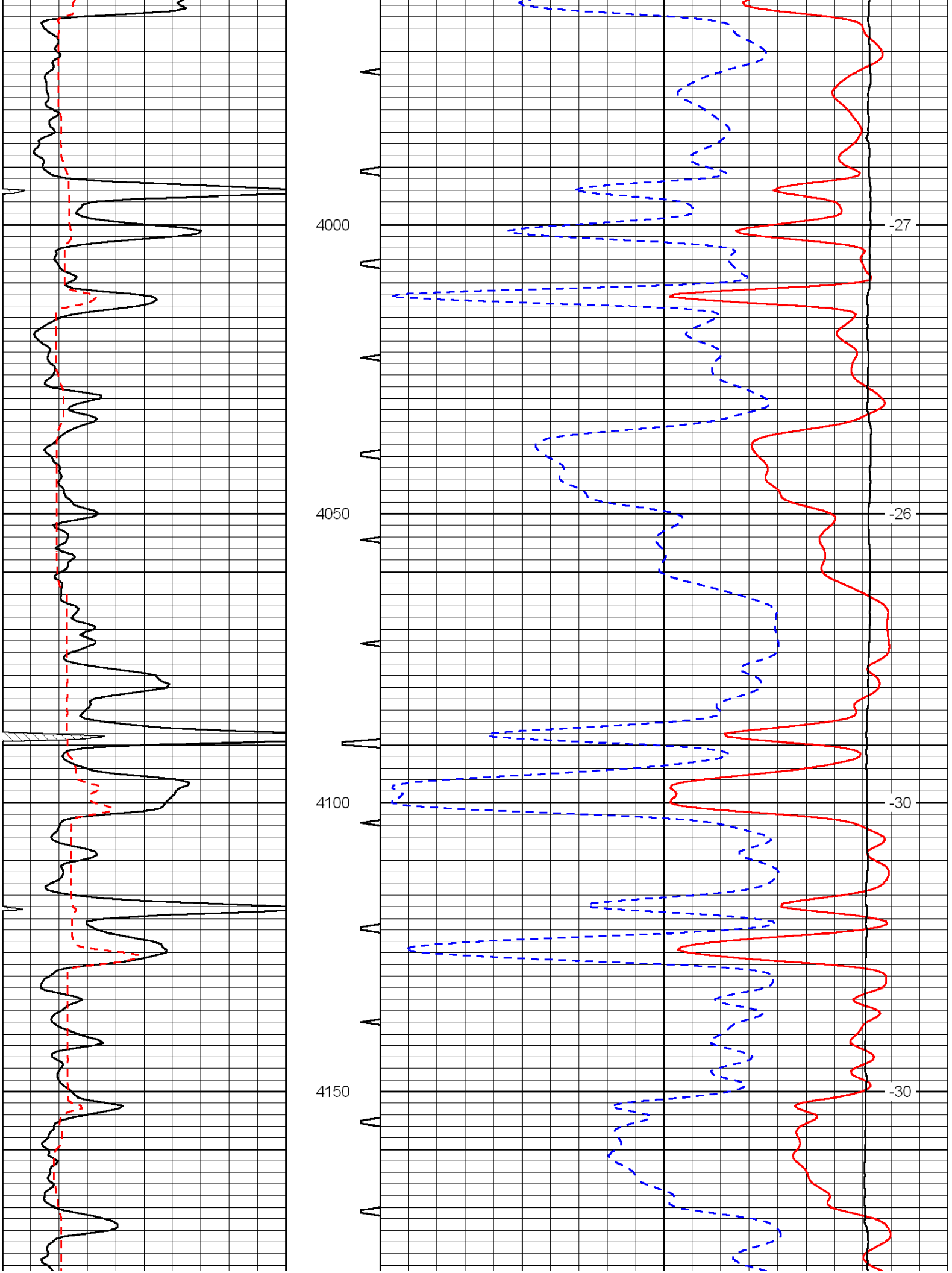

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2950
3000
3050
-75
-75
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-75

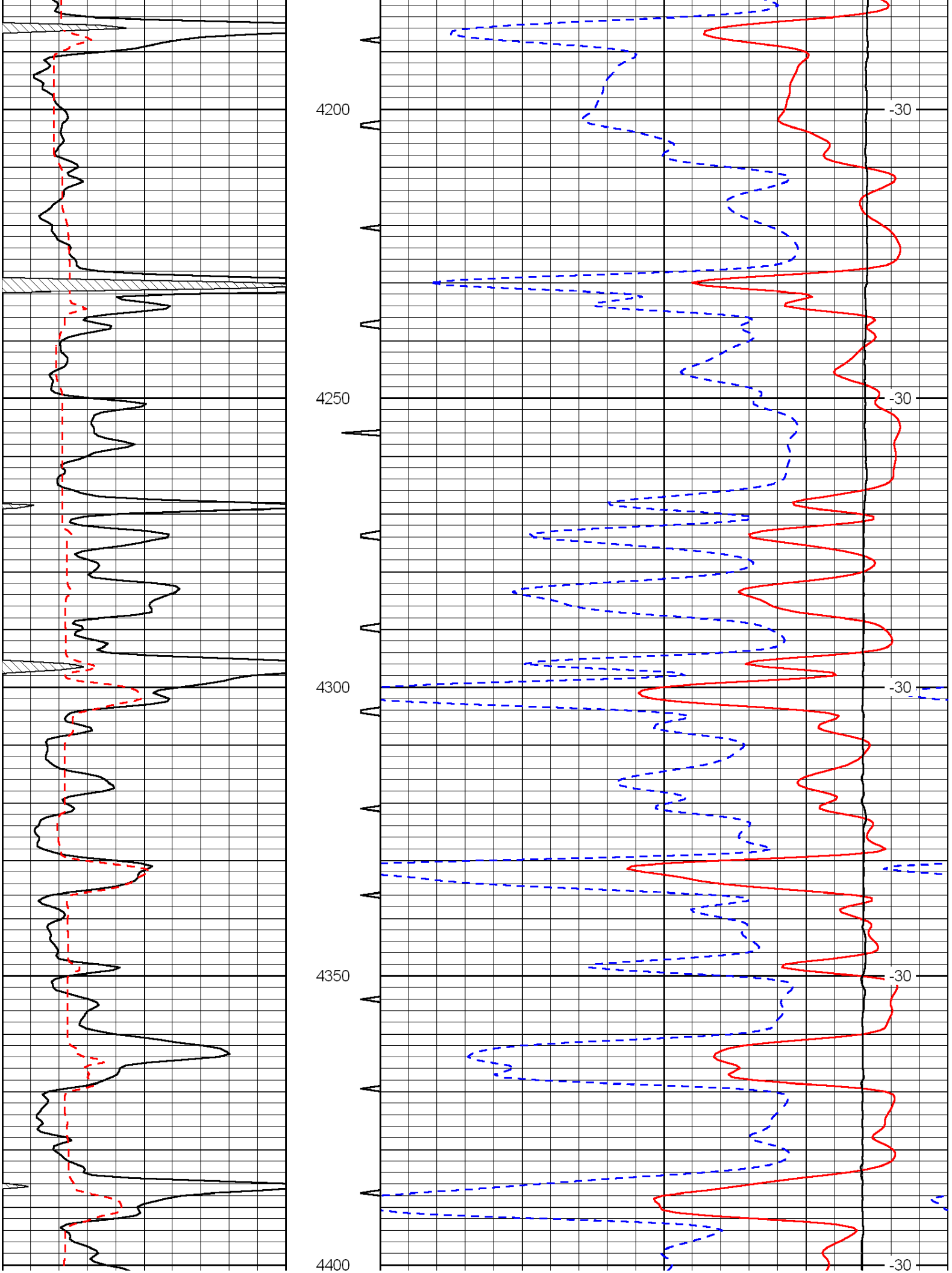

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3150
3200
3250
3300
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-70
-70
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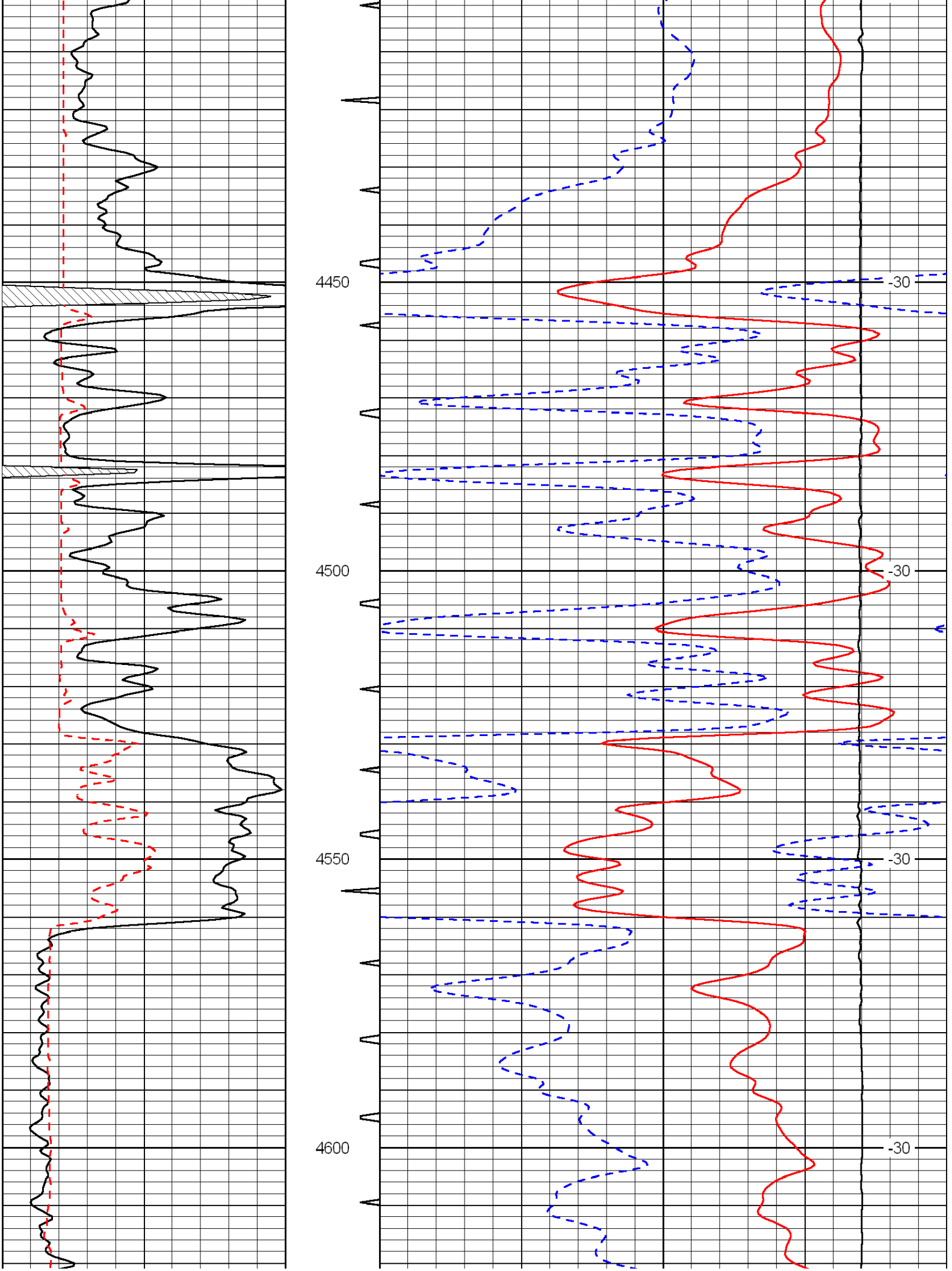

3350
3400
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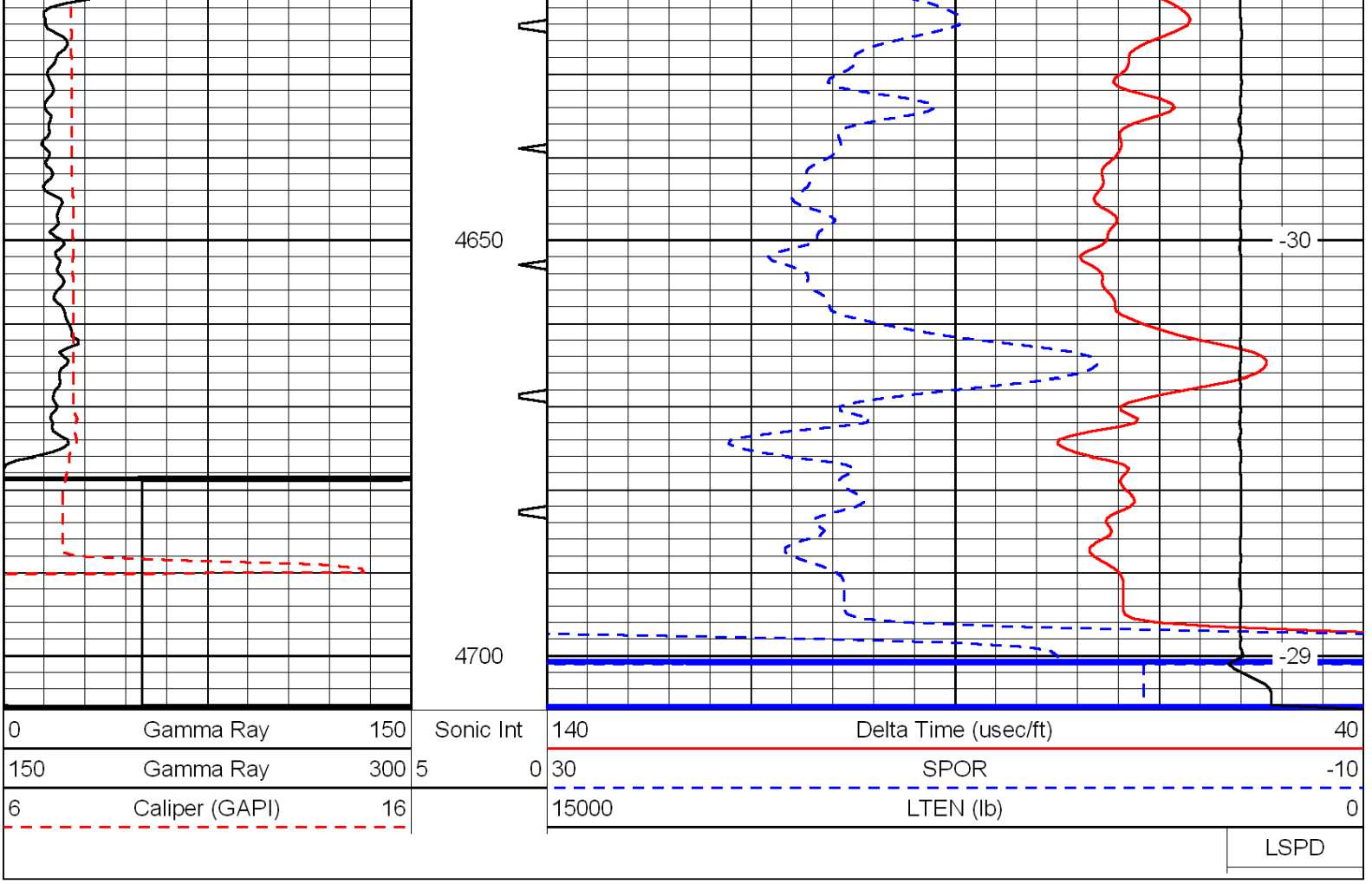

3550
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3750
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4000
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-26
4100
-30
4150
-30


4200
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4300
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4400
-30
-30
-30
-30
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4450
-30
4500
-30
4550
-30
4600
-30



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