PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No. 15-023-21,414-00-00

Company Murfin Drilling Company, Inc.

Well Sowers No. 1-19

Field Wildcat

County Cheyenne State Kansas

Location 330' FSL & 1000' FEL

Sec: 19 Twp: 1S Rge: 37W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 3210
D.F.
G.L. 3199

Permanent Datum	Ground Level	Elevation 3199
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	

Date	12/16/14
Run Number	Two
Type Log	BHC Sonic
Depth Driller	4770
Depth Logger	4772
Bottom Logged Interval	4761
Top Logged Interval	200
Type Fluid In Hole	Chemical
Salinity, PPM CL	700
Density	9.3
Level	Full
Max. Rec. Temp. F	124
Operating Rig Time	5 Hours
Equipment -- Location	10 Hays
Recorded By	J. Henrickson
Witnessed By	Chuck Schmaltz

Borehole Record

Run No.	Bit	From	To
One	12.25	00	225
Two	7.875	225	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	225

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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

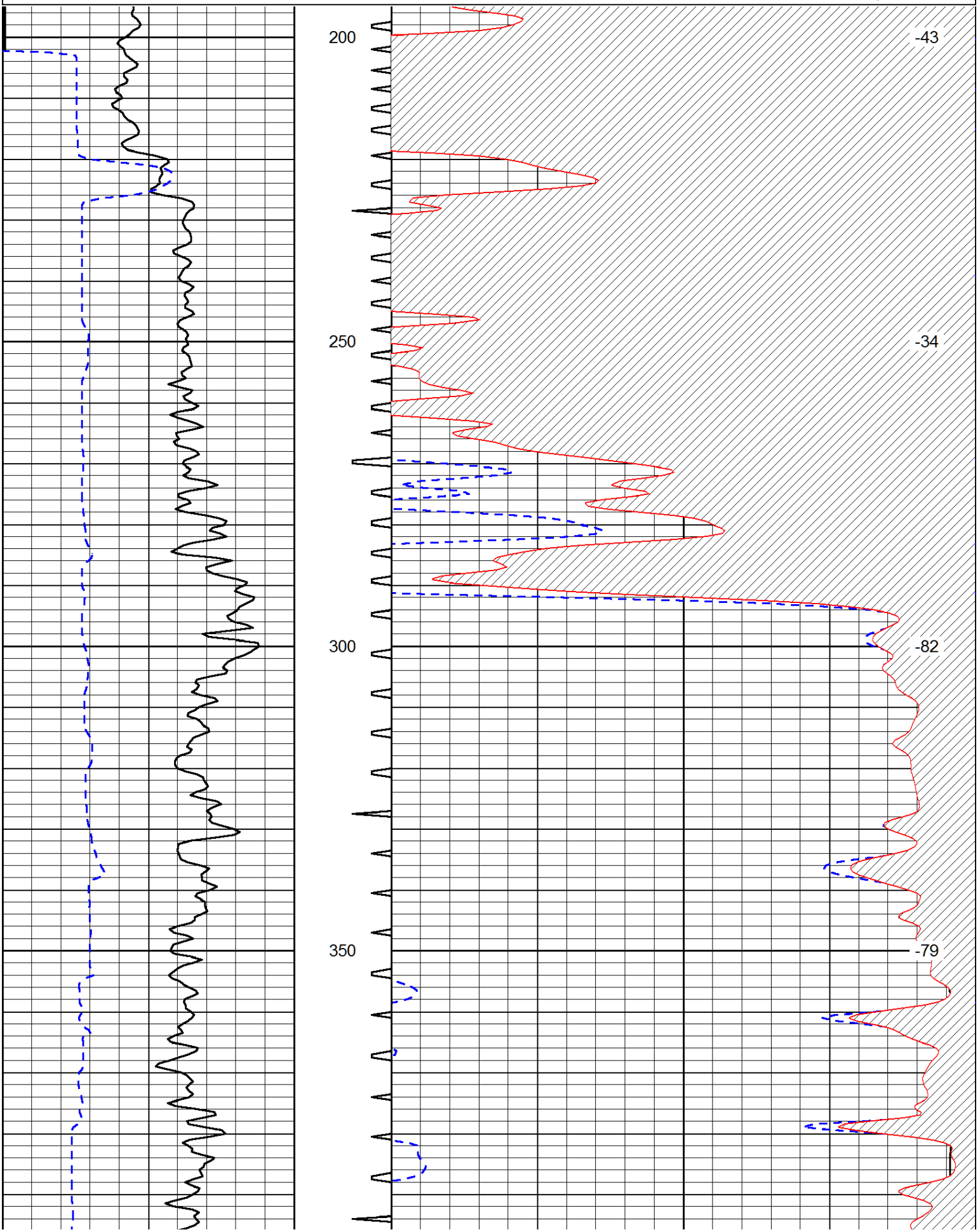
Thank you for using Log-Tech, Inc.
(785) 625-3858

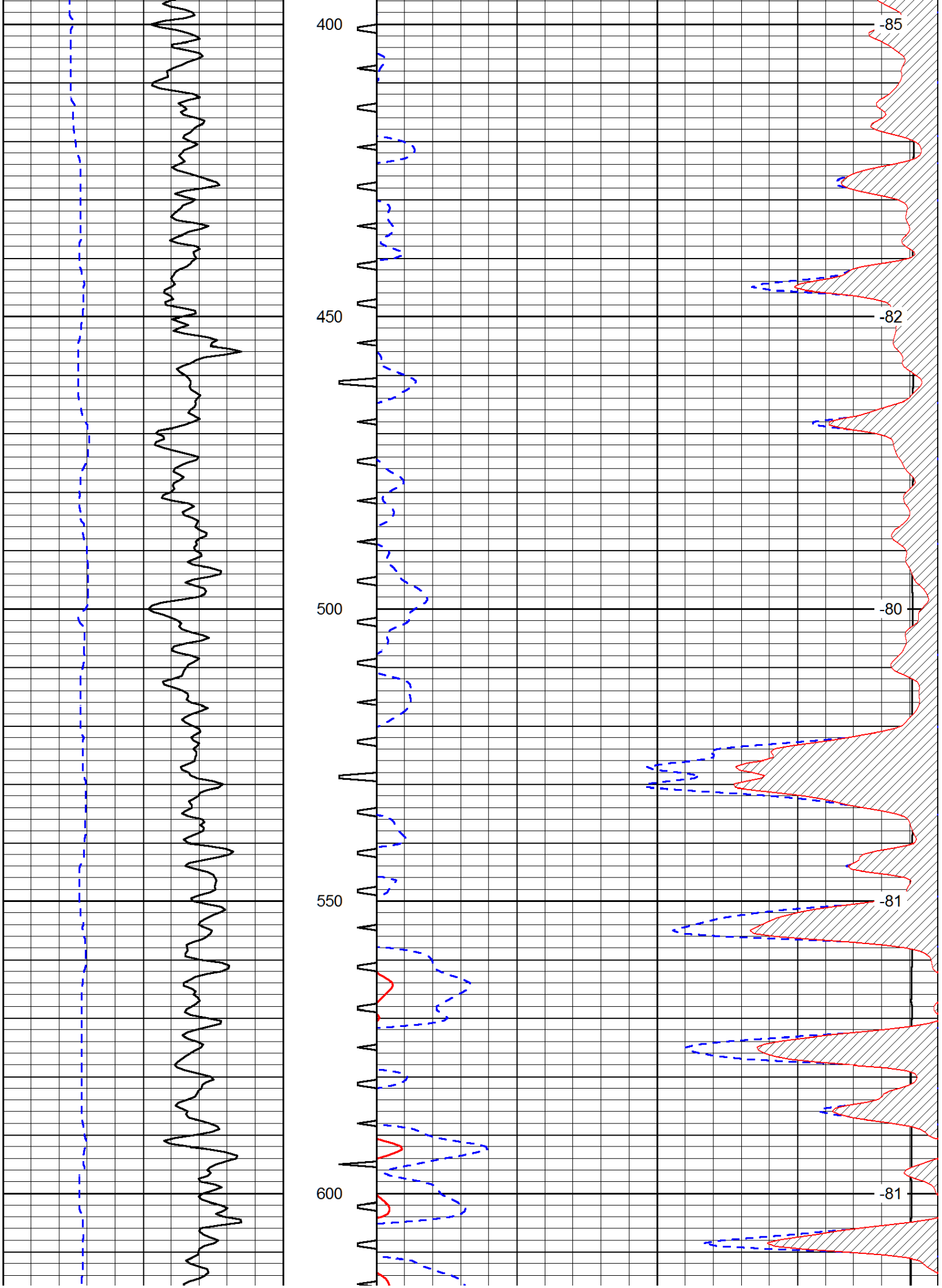
Bird City Kansas
North to AA Rd, 1 3/4 East, North Into

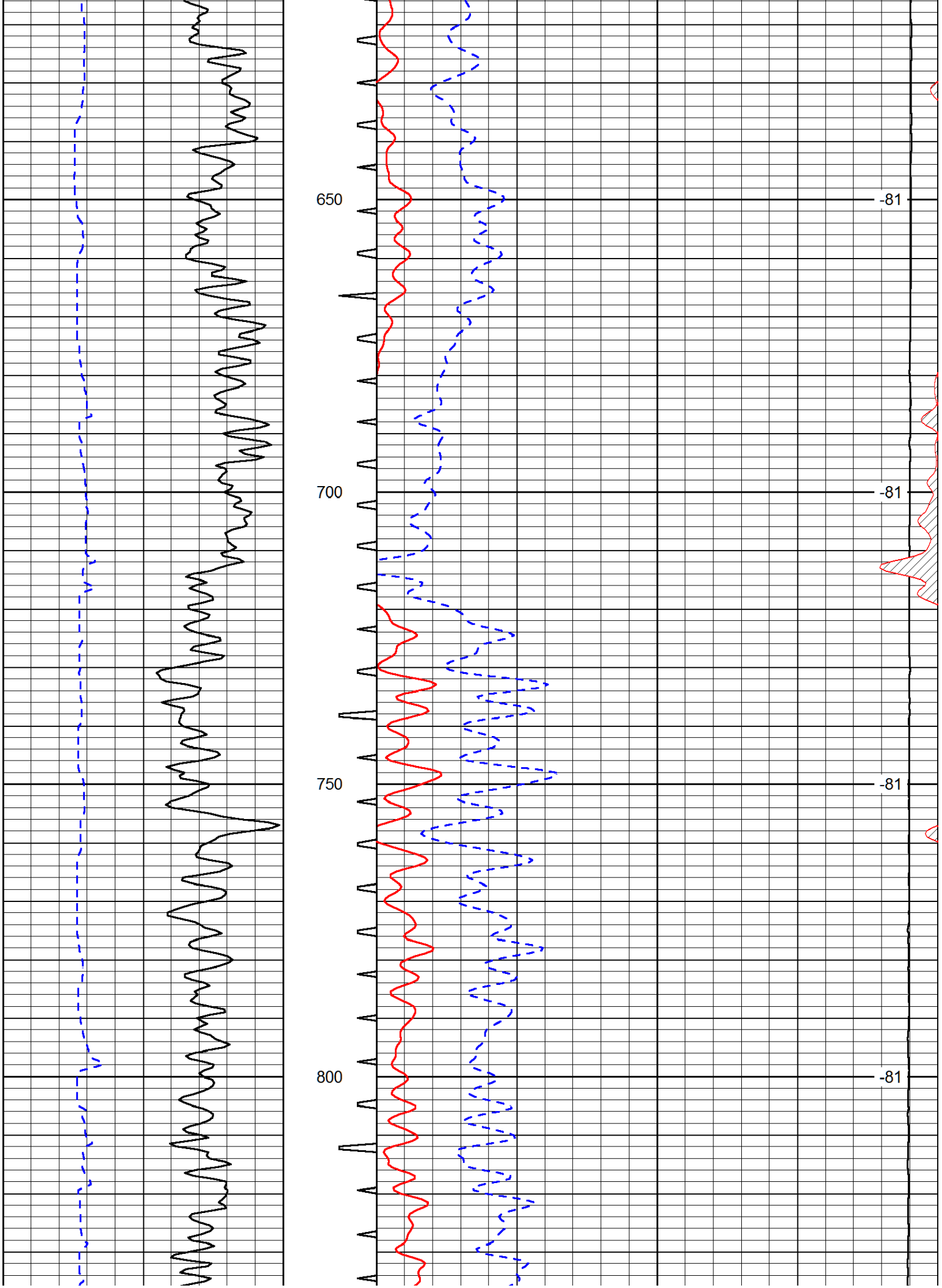
Database File:	murfin_sowers_1_19hd.db
Dataset Pathname:	DIL/mrfstkml2
Presentation Format:	sonic
Dataset Creation:	Tue Dec 16 03:58:58 2014
Charted by:	Depth in Feet scaled 1:240

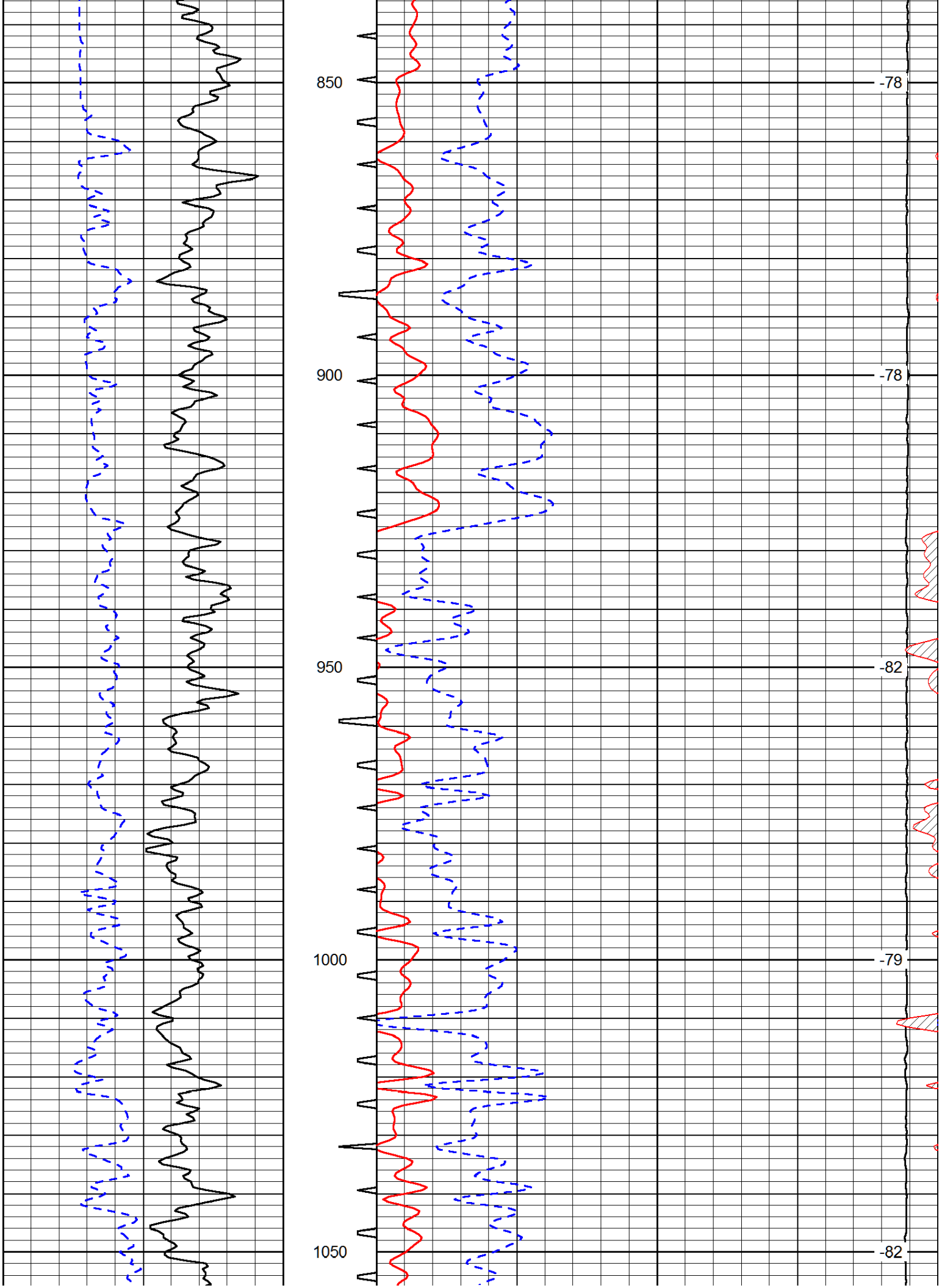
0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5 0	30	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0

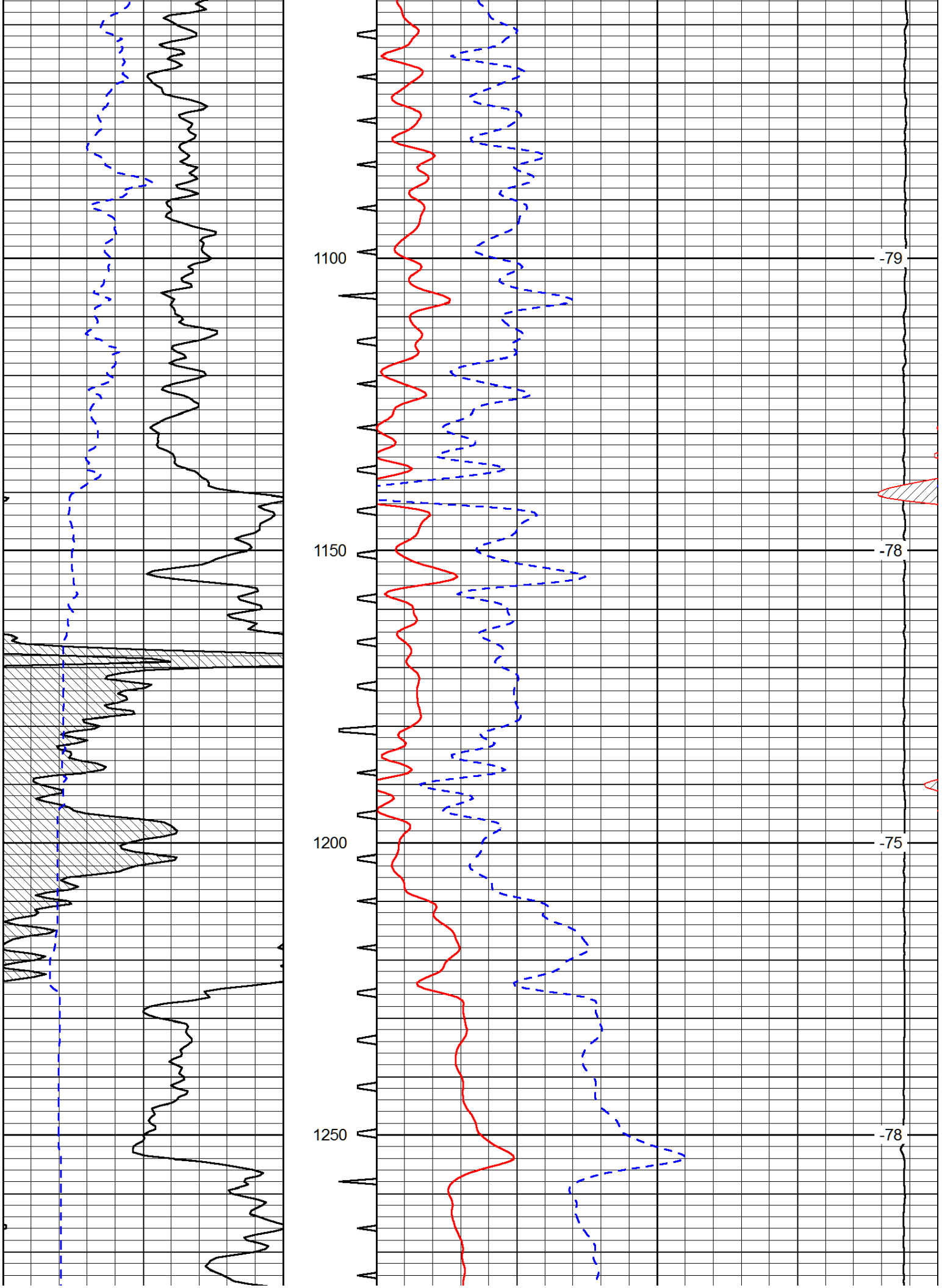
LSPD

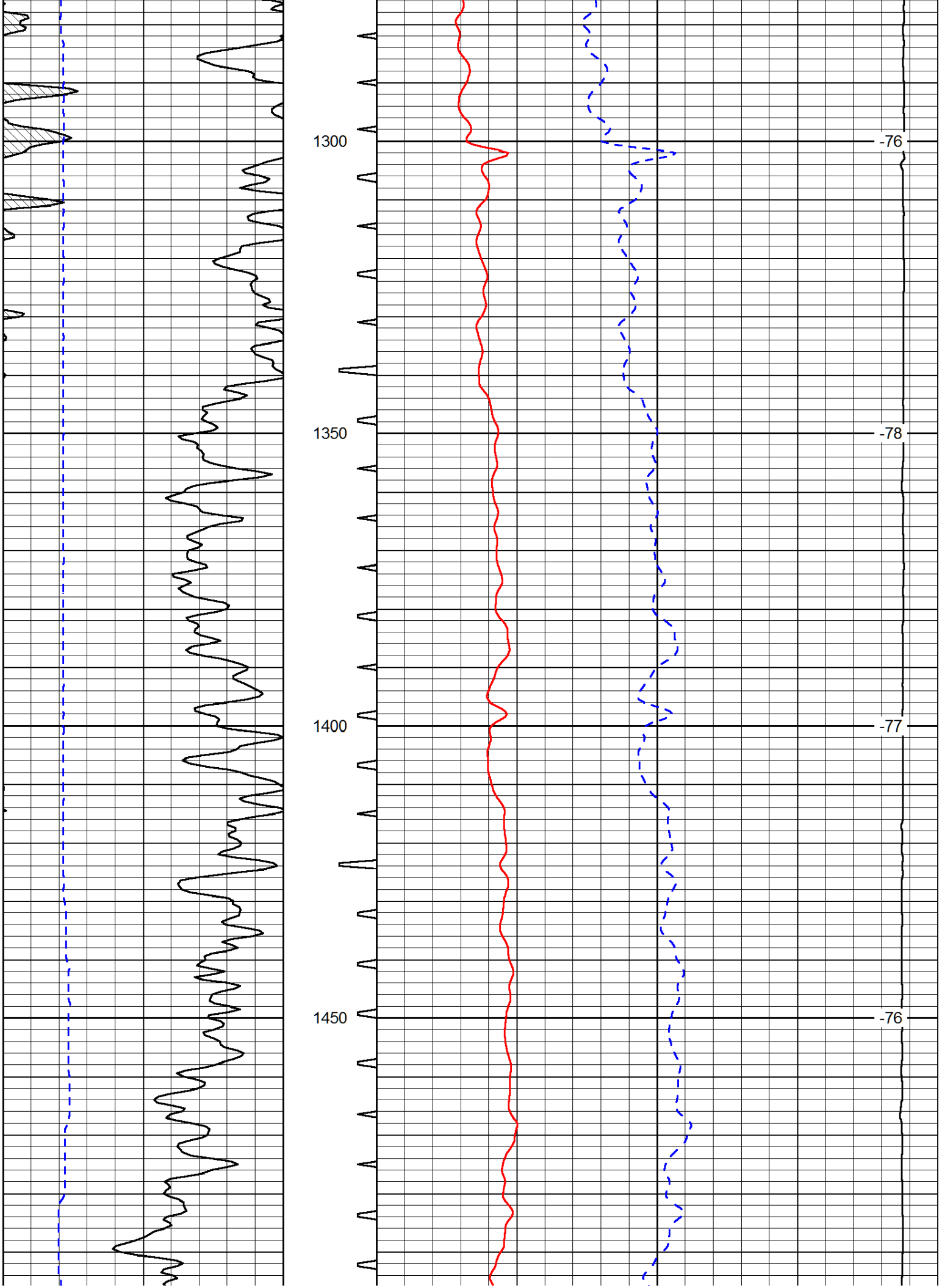


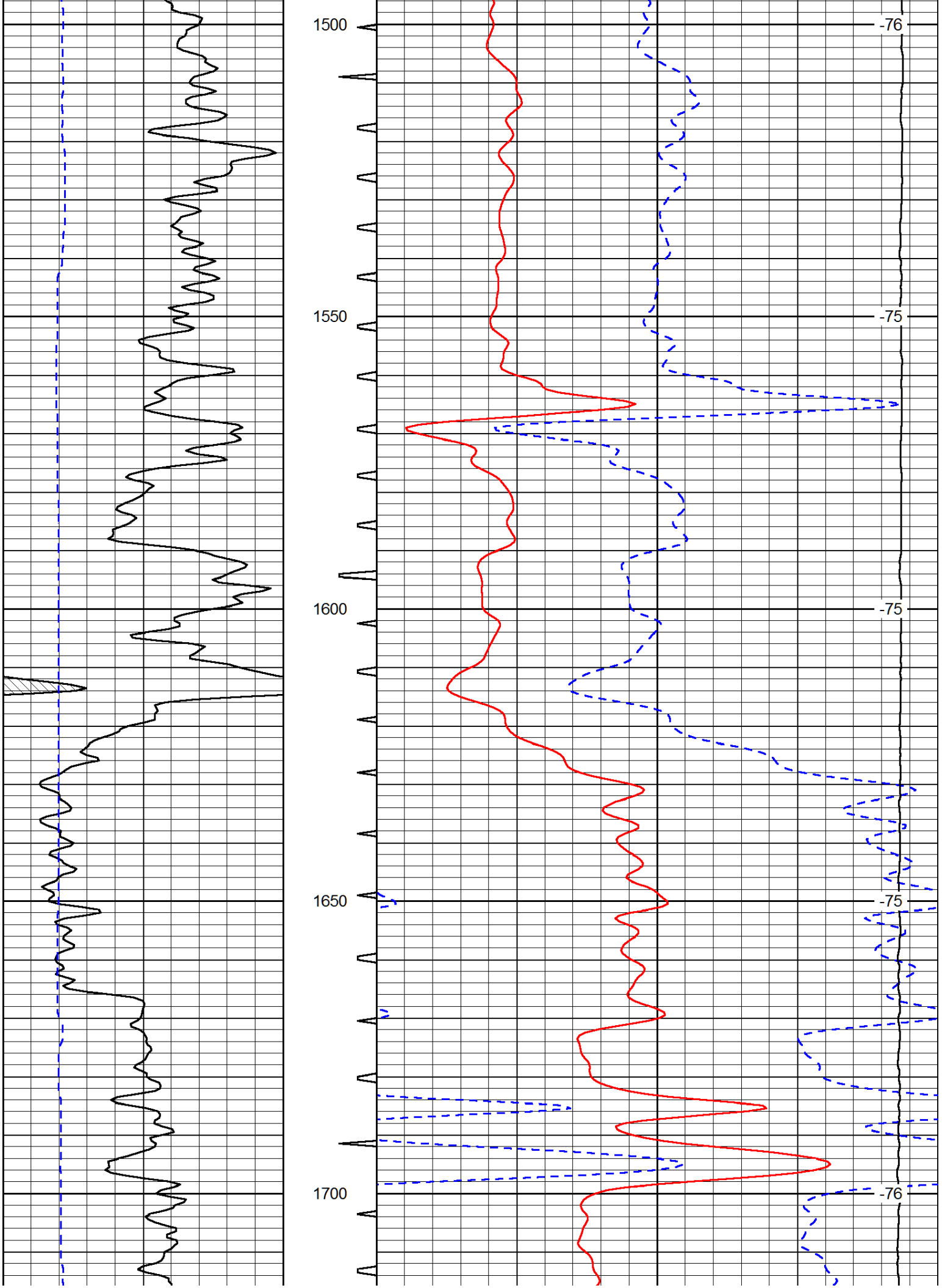

400
450
500
550
600
-85
-82
-80
-81
-81

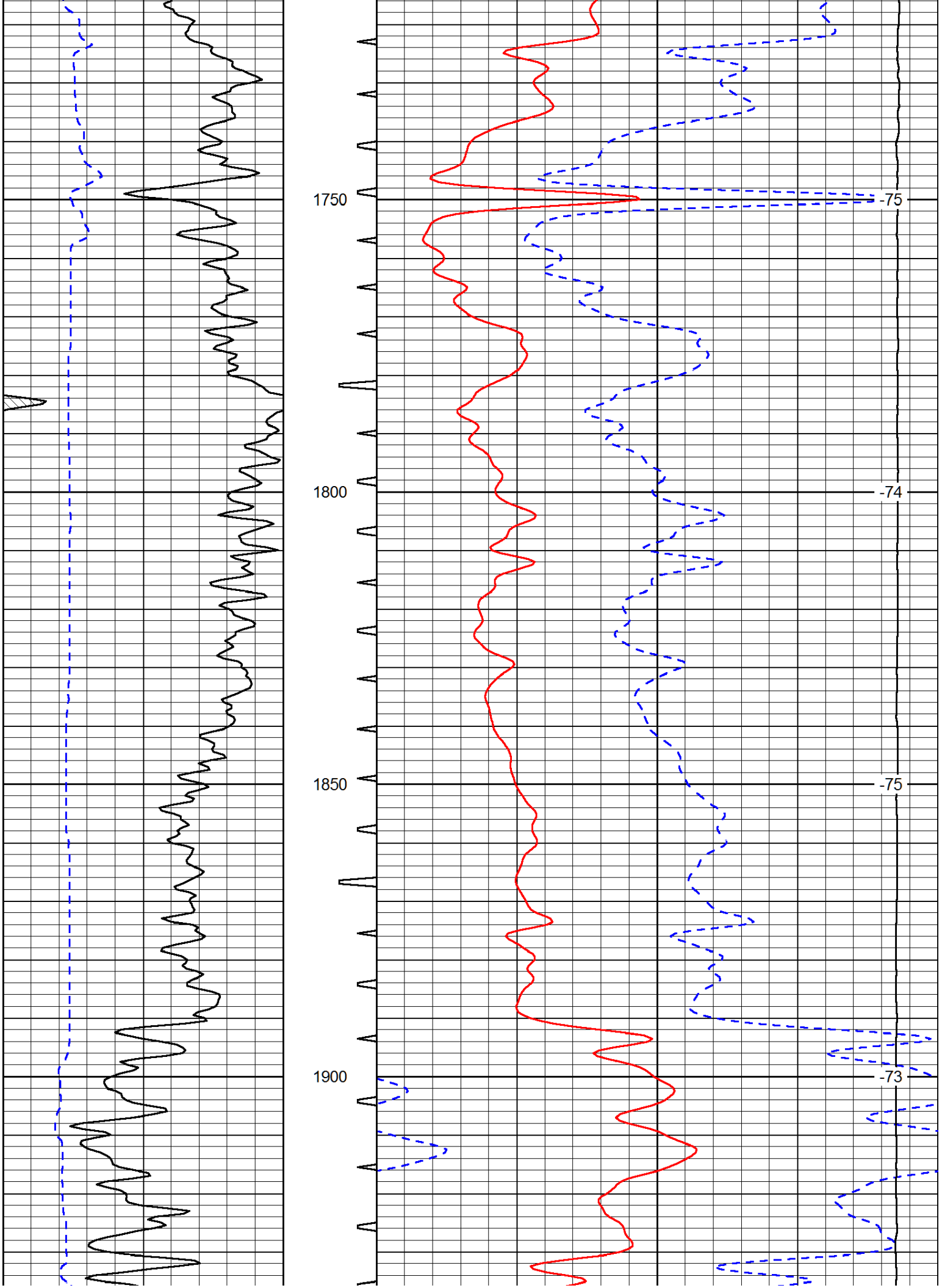

650
700
750
800
-81
-81
-81

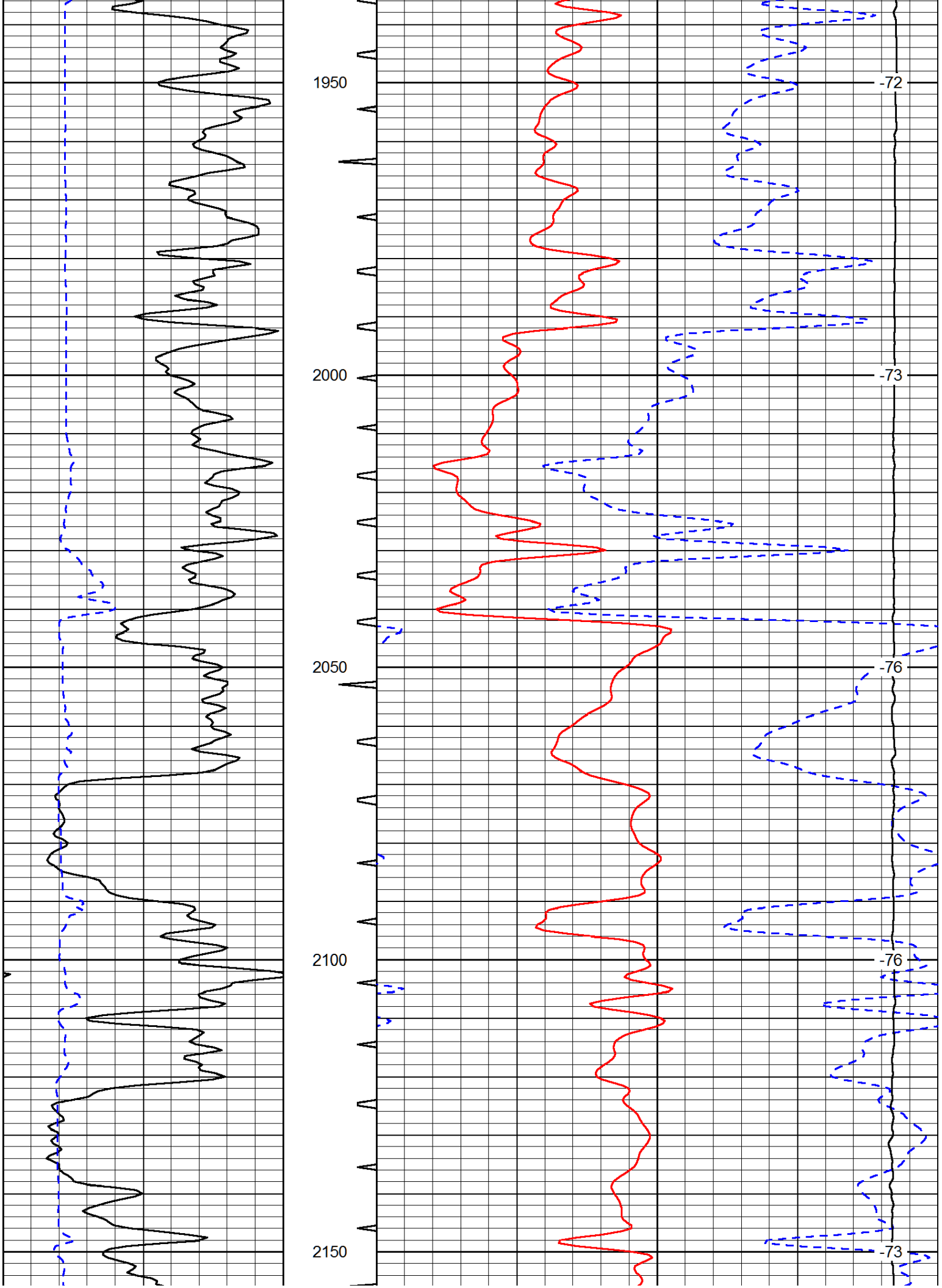

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1050
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-82

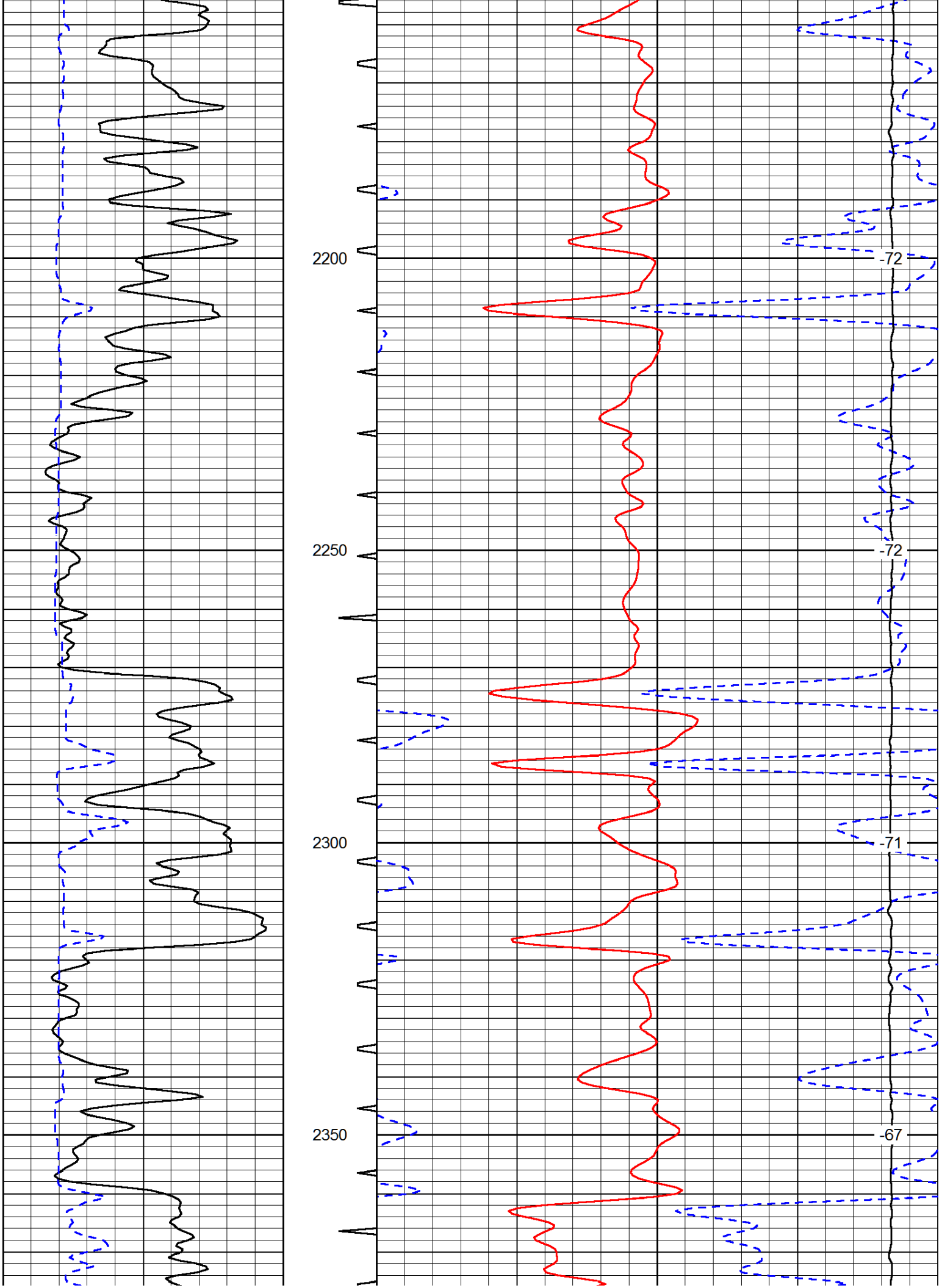

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1150
1200
1250
-79
-78
-75
-78

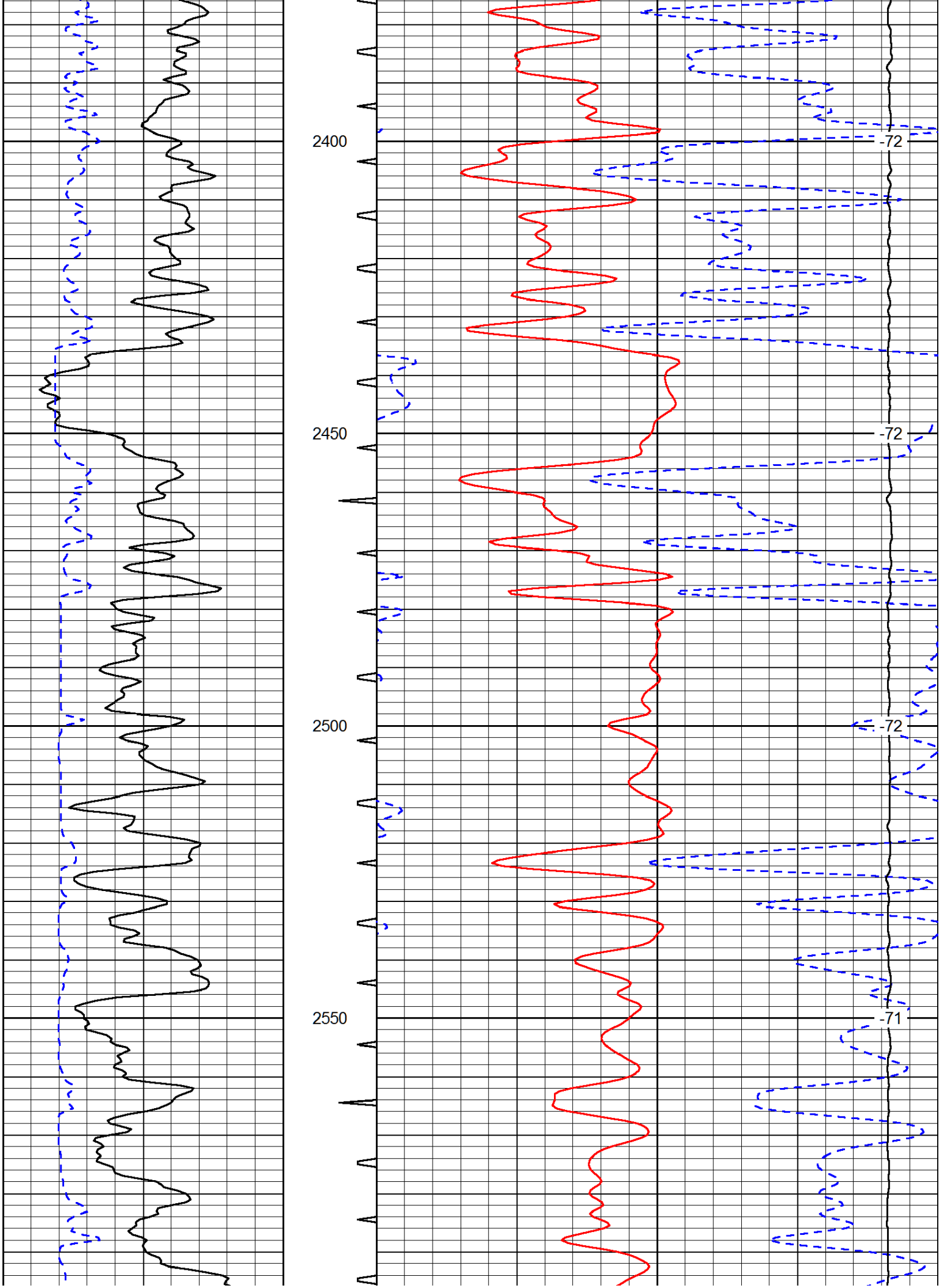

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1350
1400
1450
-76
-78
-77
-76

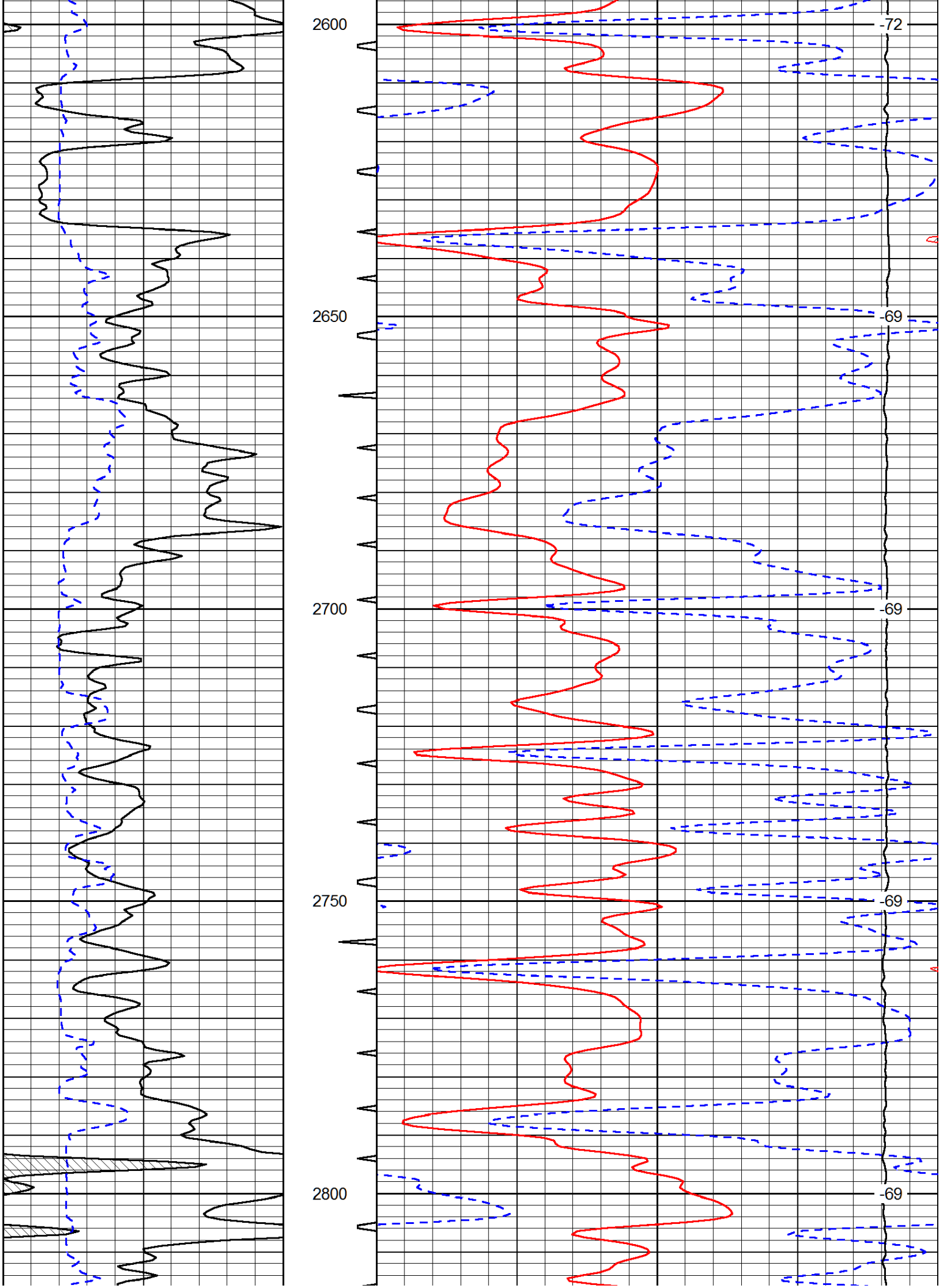

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-76

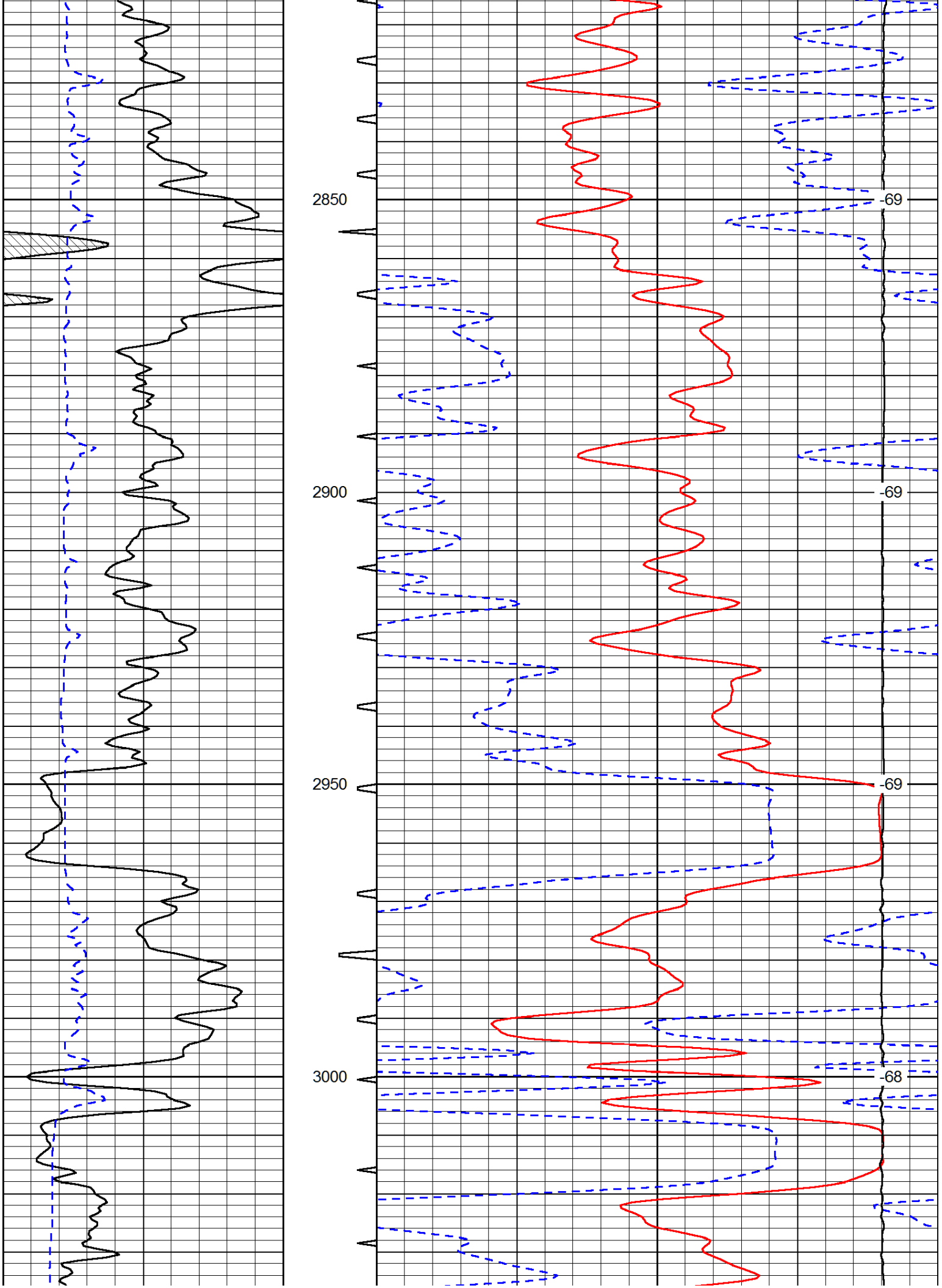

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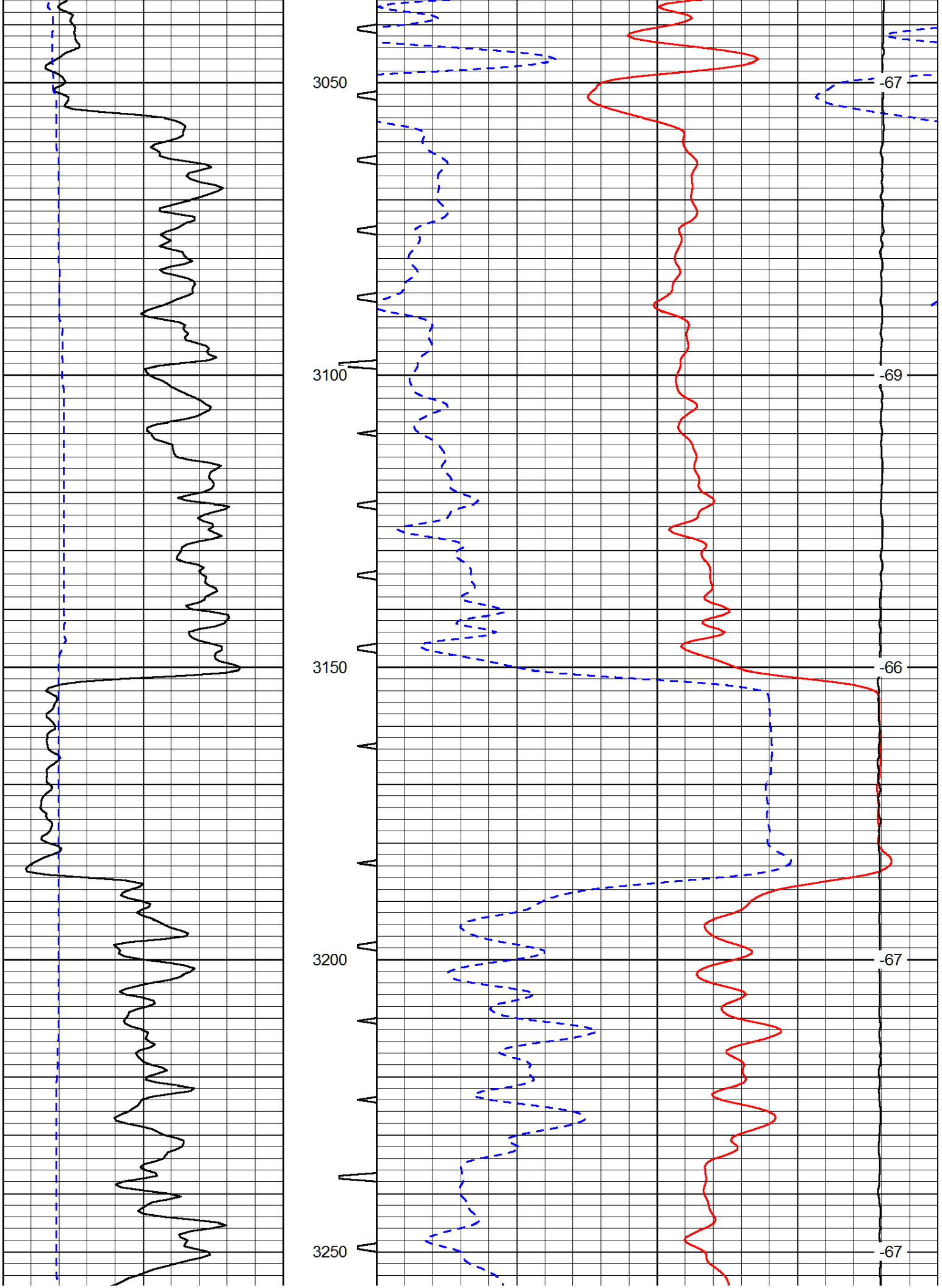

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2100
2150
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-76
-73

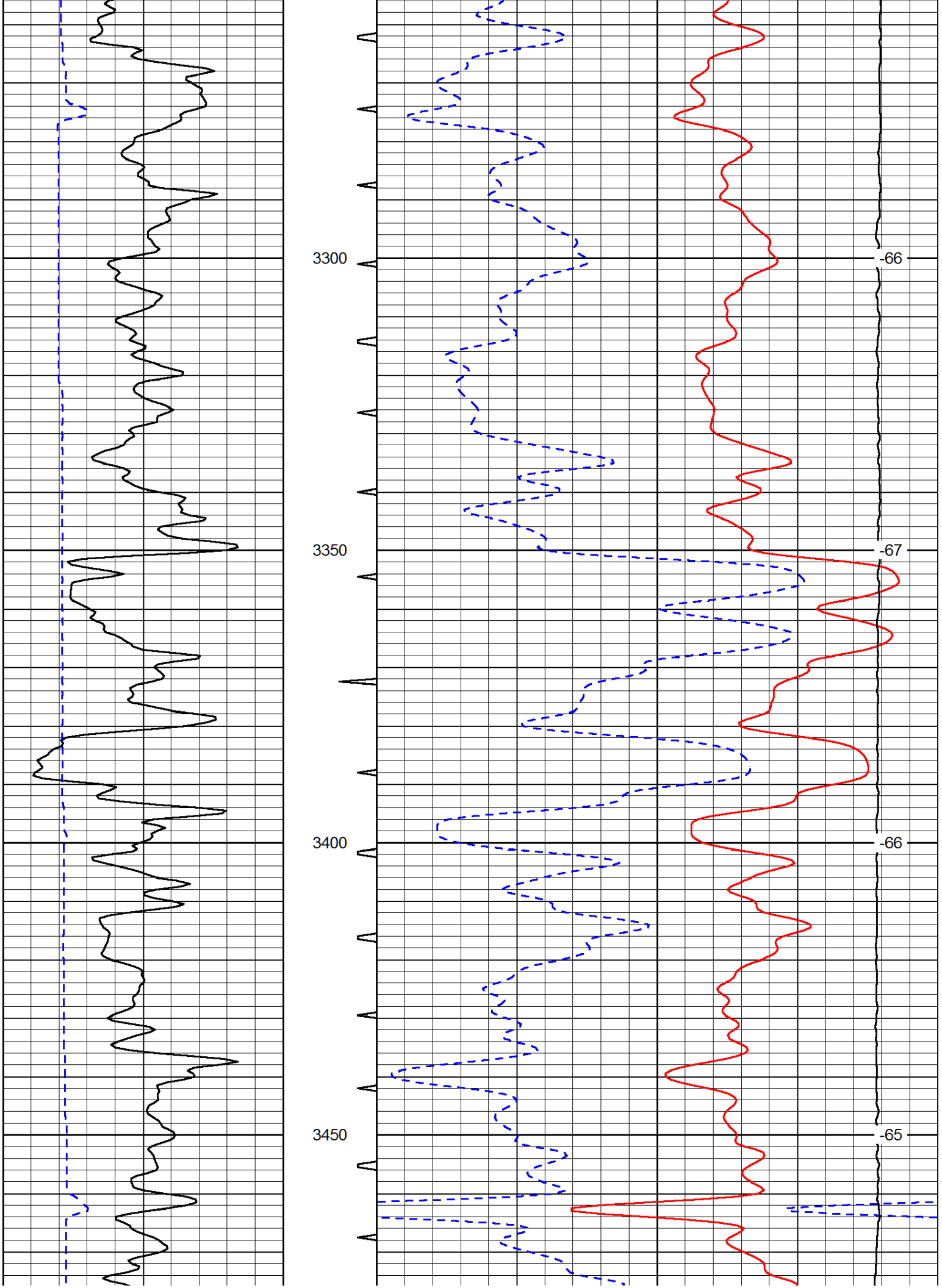

2200
2250
2300
2350
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-72
-71
-67

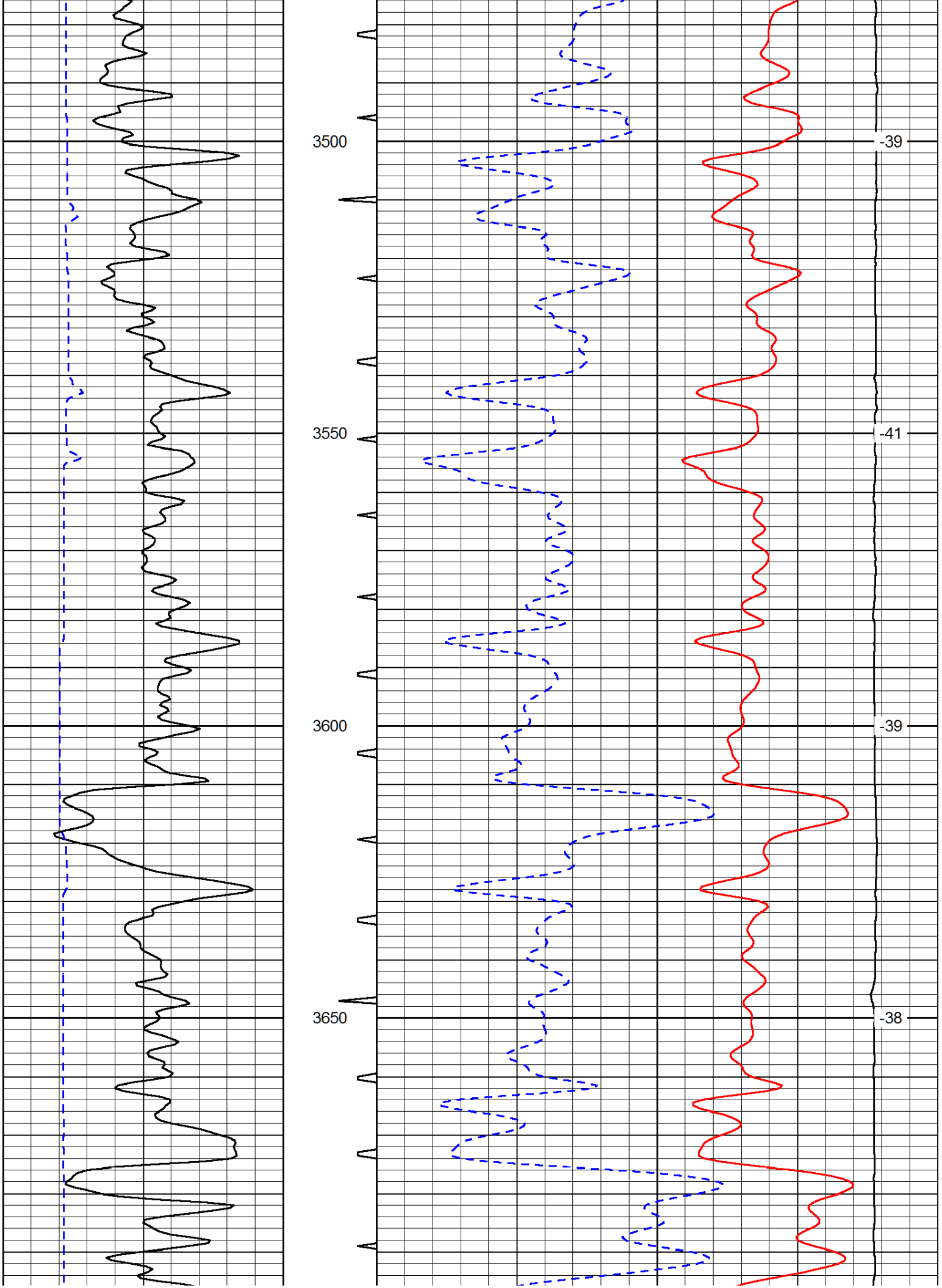

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-72
2500
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-71

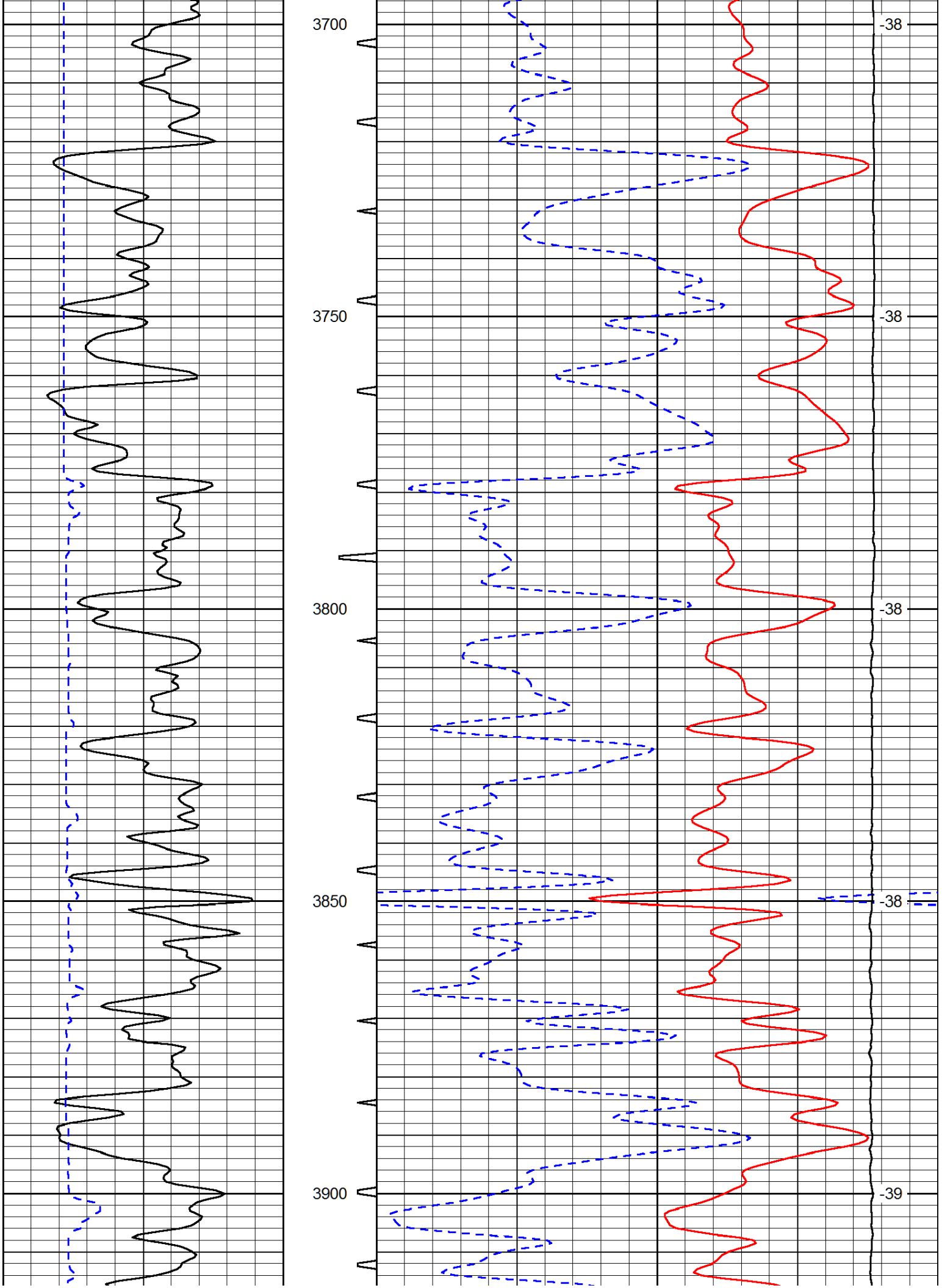

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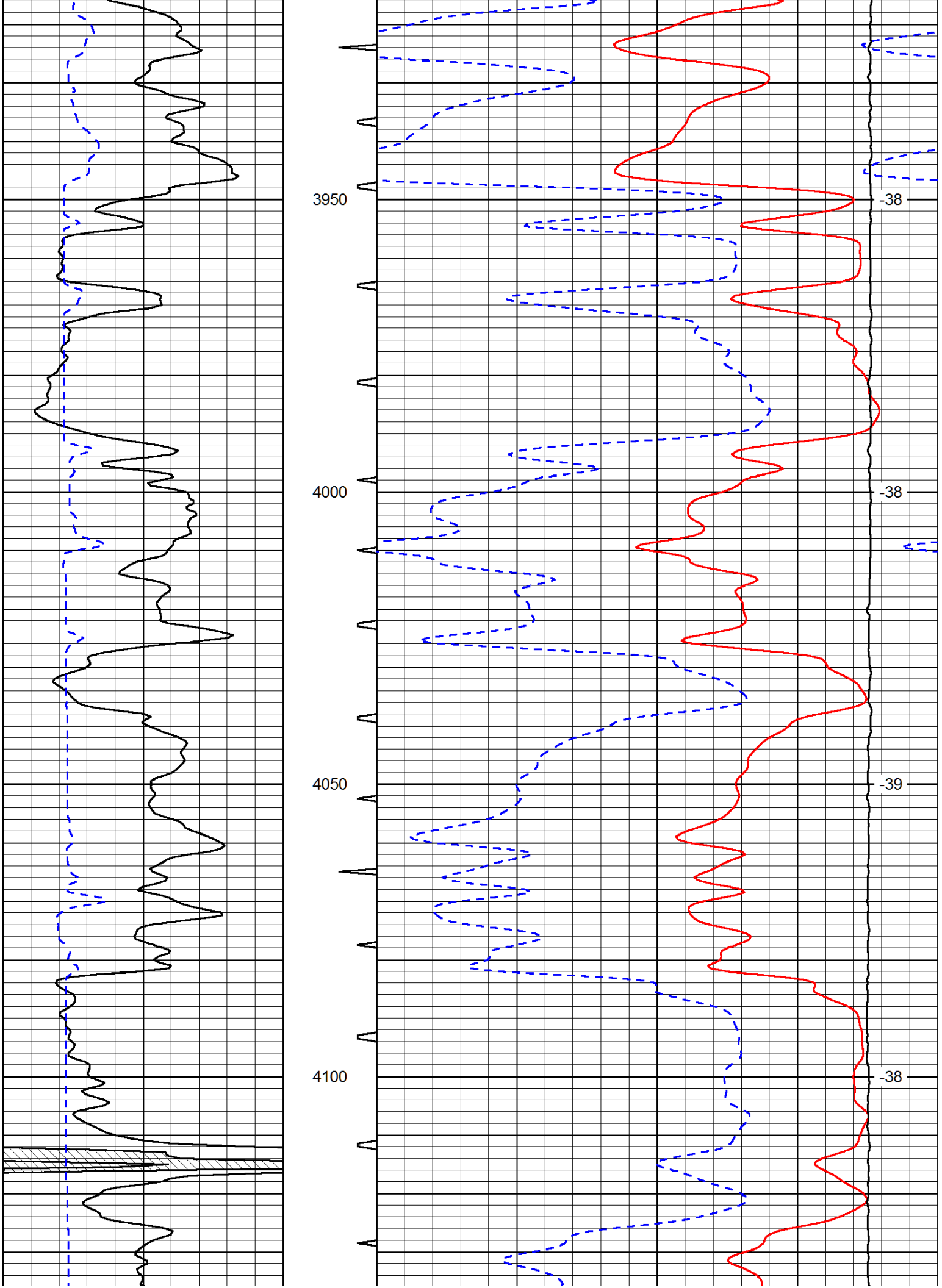

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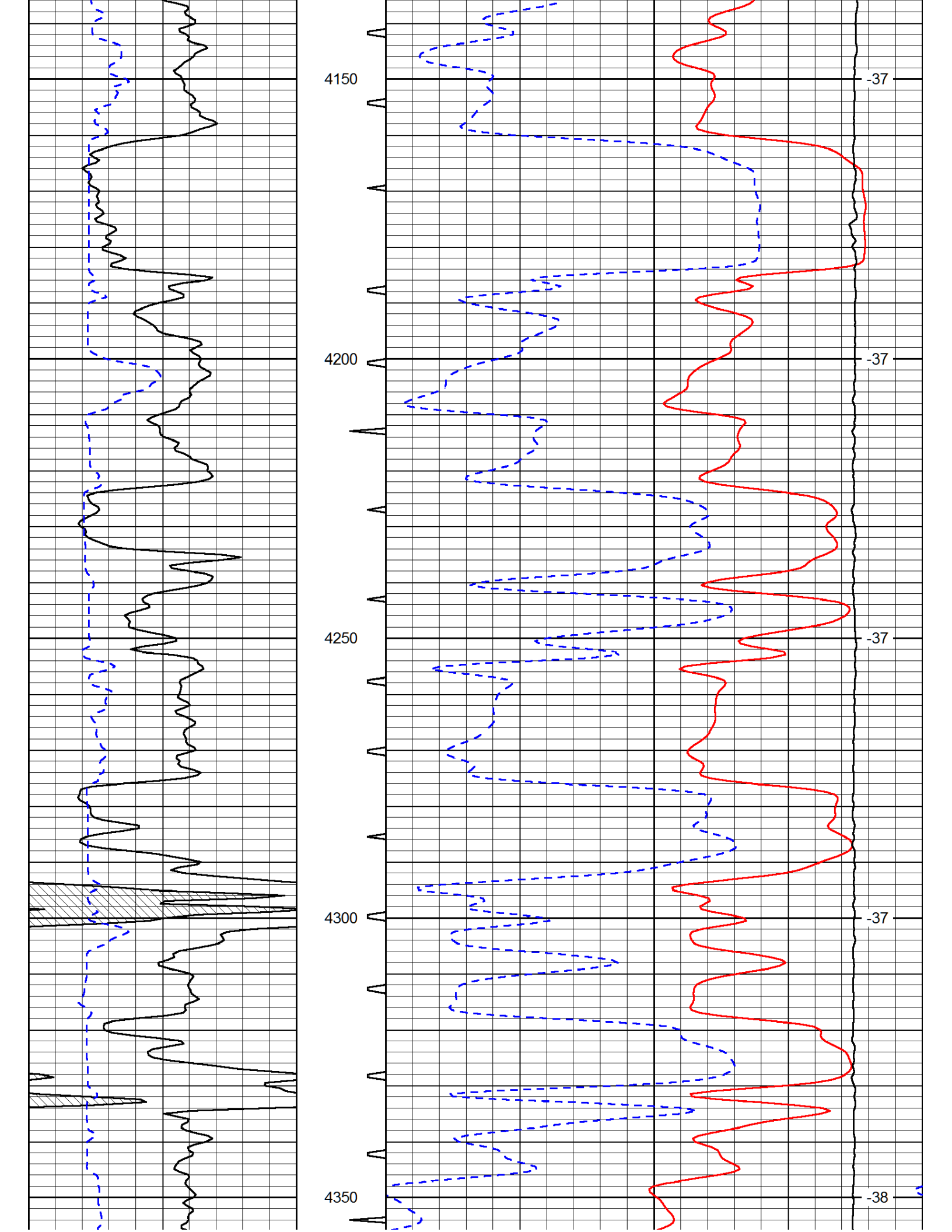

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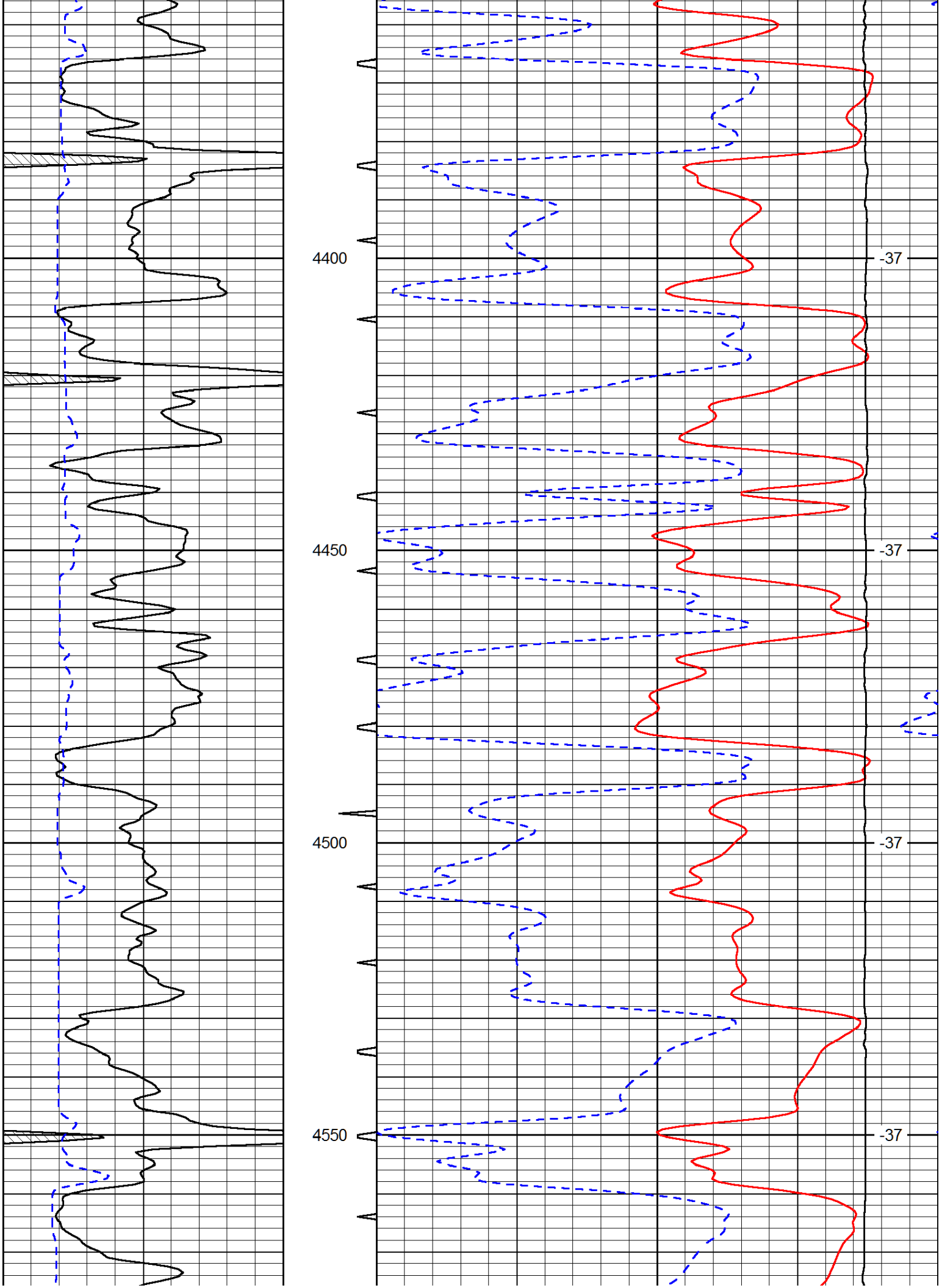

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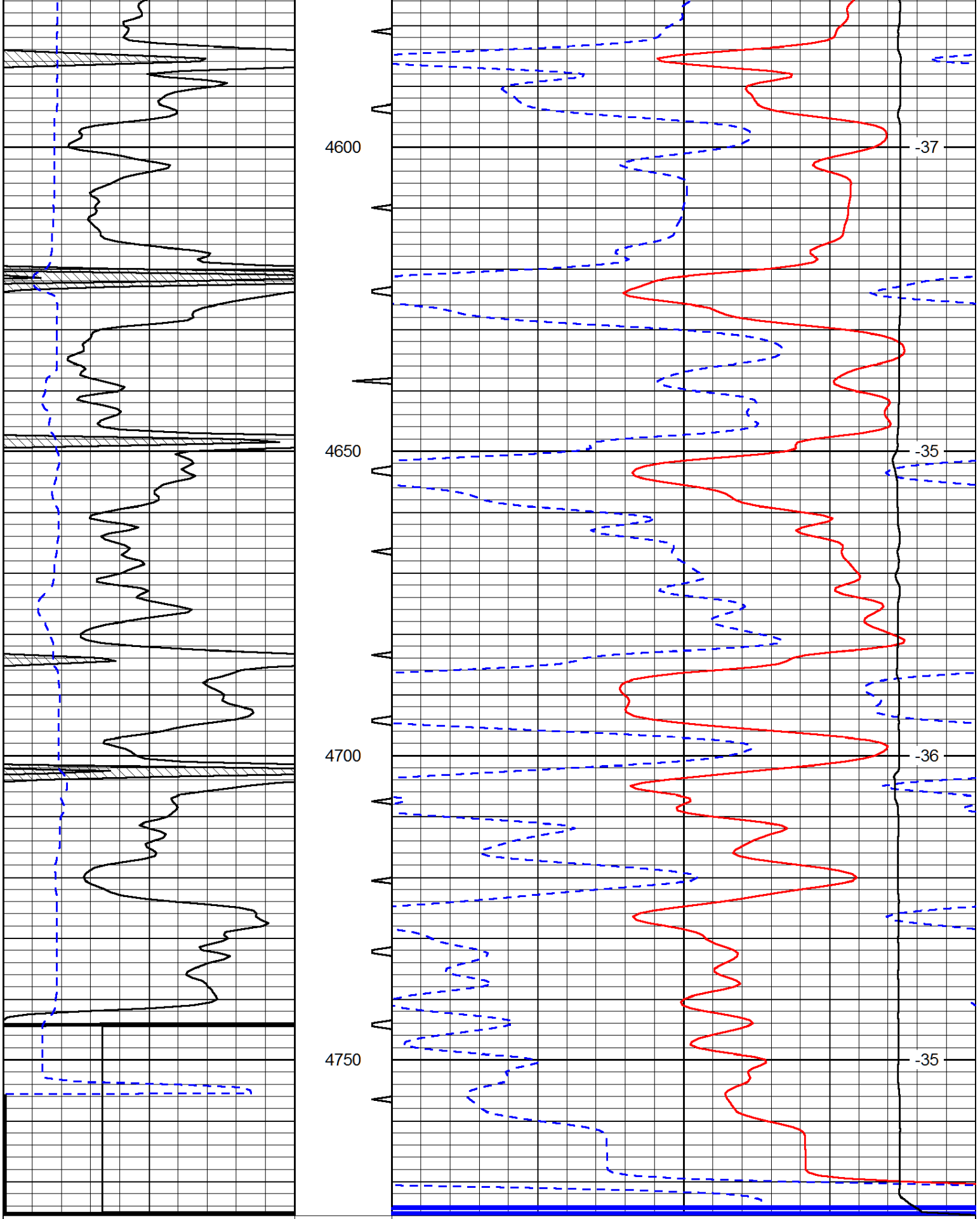

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