PIONEER

Pioneer Energy Services

Dual Induction Log

API No. 15-051-26472-00-00

Company Murfin Drilling Company, Inc

Well Emmerentia #1-23

Field Martina

County Ellis State Kansas

Location 2310' FSL & 800' FWL

Sec: 23 Twp: 15 S Rge: 19 W

Other Services
CNL/CDL
MEL/BHCS

Elevation
K.B. 1981
D.F.
G.L. 1976

Permanent Datum Ground Level
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum Elevation 1976
Drilling Measured From Kelly Bushing

Date	02-25-2013			
Run Number	One			
Depth Driller	3700			
Depth Logger	3698			
Bottom Logged Interval	3697			
Top Log Interval	0			
Casing Driller	8.625 @ 1176			
Casing Logger	1174			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	8900			
Density / Viscosity	9.3 43			
pH / Fluid Loss	10.0 8.4			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.40 @ 40			
Rmf @ Meas. Temp	0.30 @ 40			
Rmc @ Meas. Temp	0.54 @ 40			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.14 @ 115			
Operating Rig Time	5 Hours			
Max. Rec. Temp. F	115			
Equipment Number	91			
Location	Hays			
Recorded By	D. Schmidt			
Witnessed By	Rocky Milford			

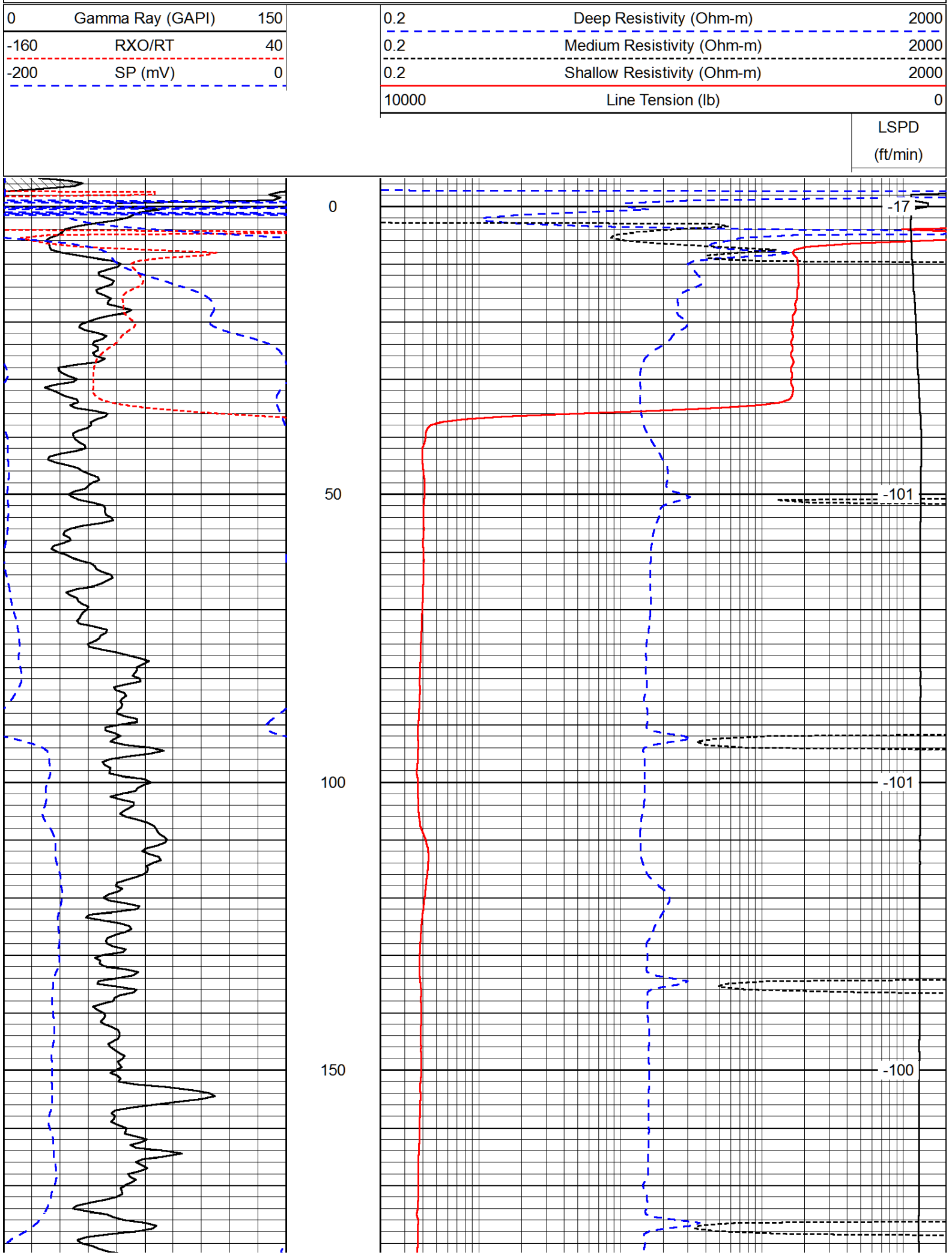
<<< Fold Here >>>

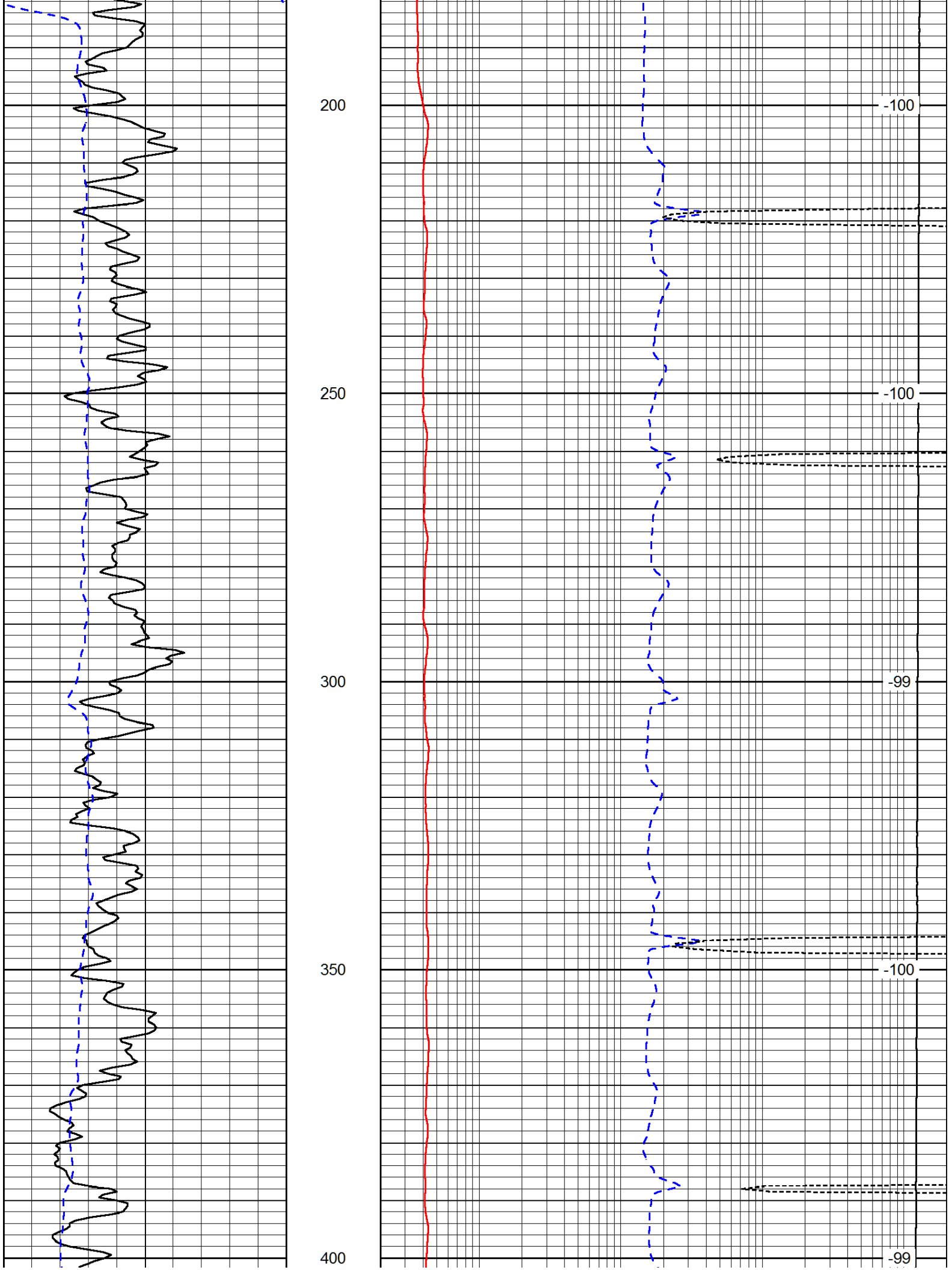
Comments

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

Antonino,
1 West to 200 Rd, 3 1/2 South,
East Into

Database File:	murfin_022513hd.db
Dataset Pathname:	dil/mrfstck
Presentation Format:	dil
Dataset Creation:	Mon Feb 25 08:54:36 2013
Charted by:	Depth in Feet scaled 1:240


0 Gamma Ray (GAPI) 150
-160 RXO/RT 40
-200 SP (mV) 0
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
10000 Line Tension (lb) 0
LSPD
(ft/min)
0
50
100
150
-17
-101
-101
-100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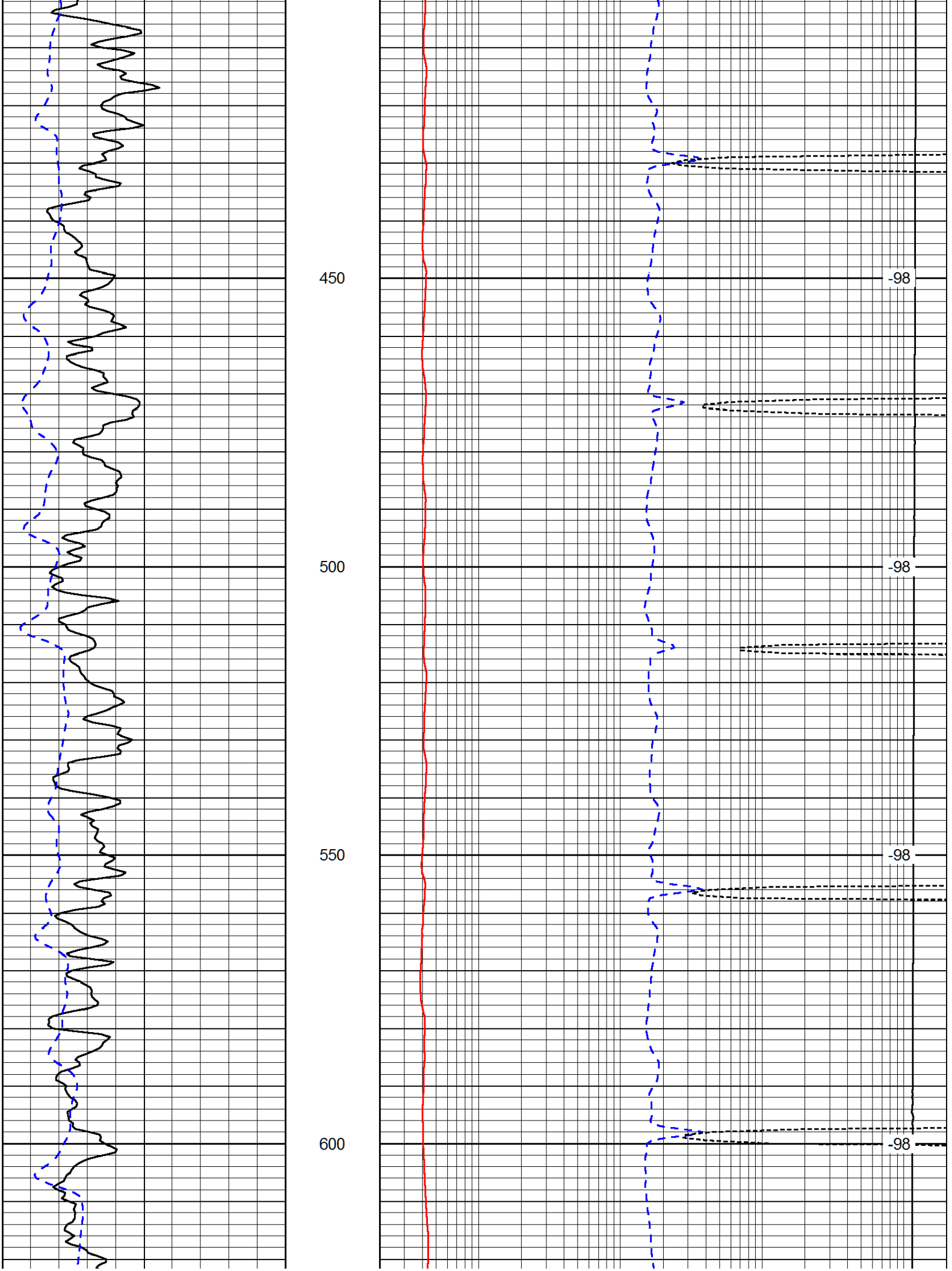
-99
-100
-99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500
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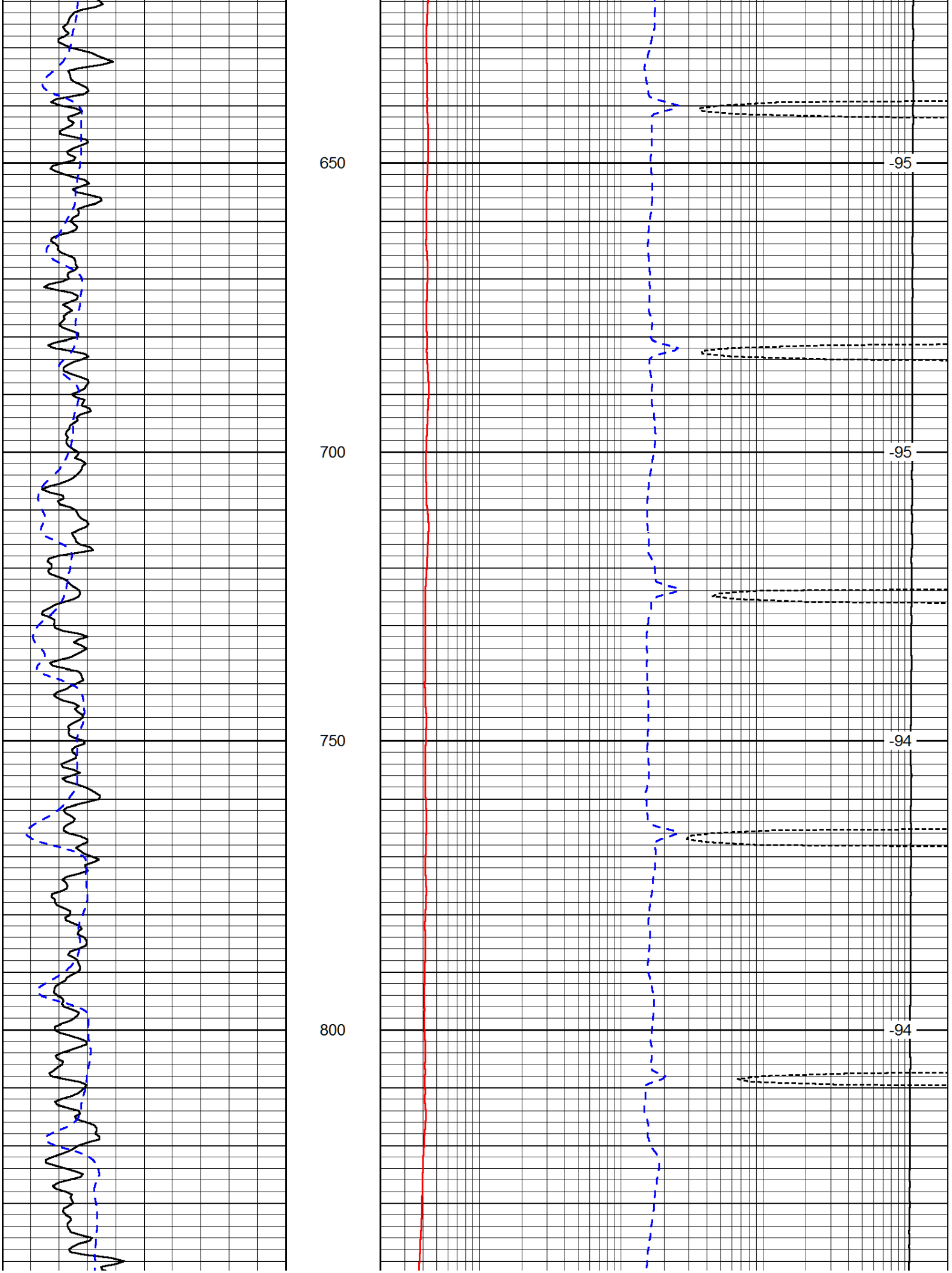
600
-98
-98
-98
-98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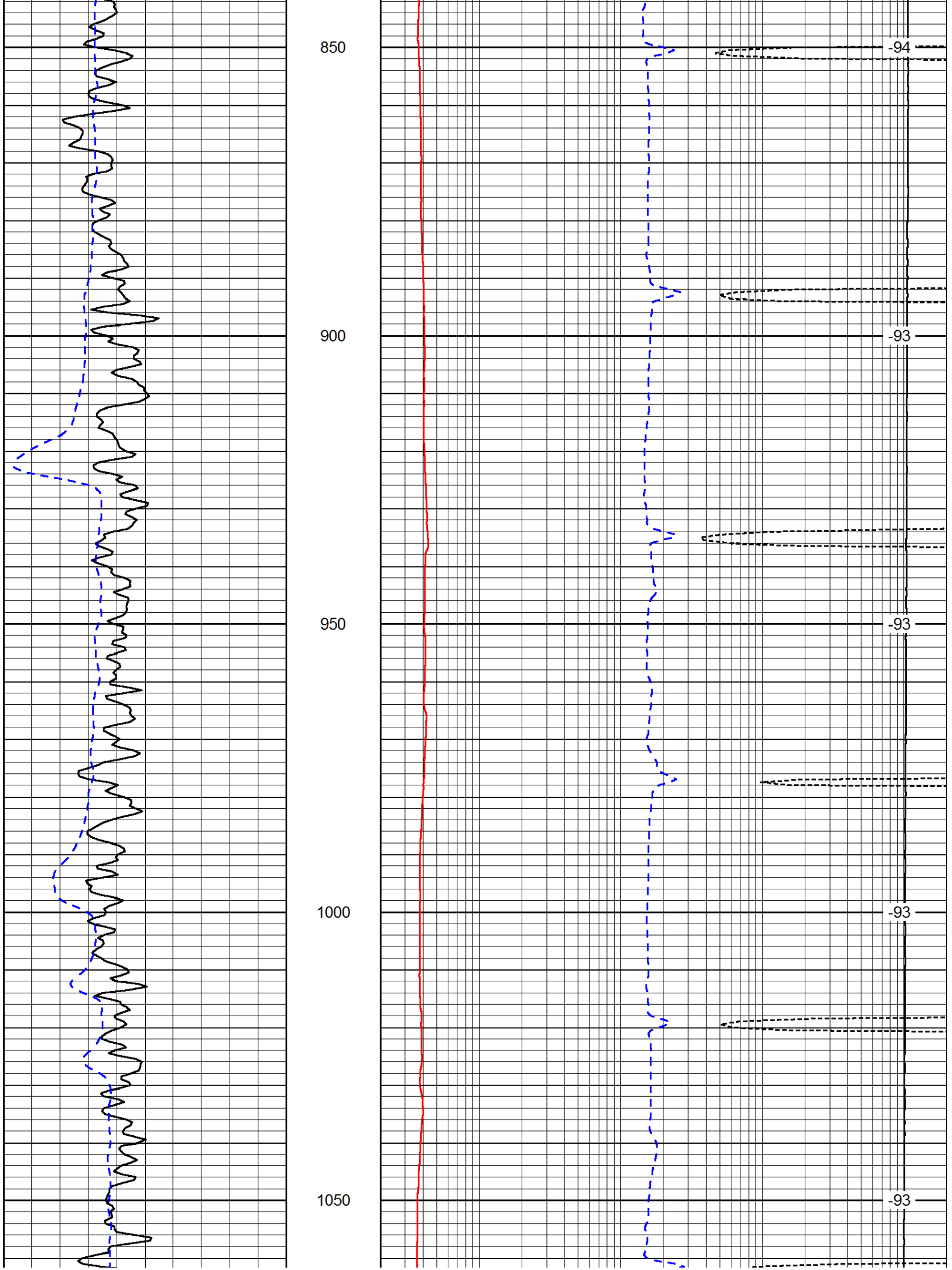
-95
-95
-94
-94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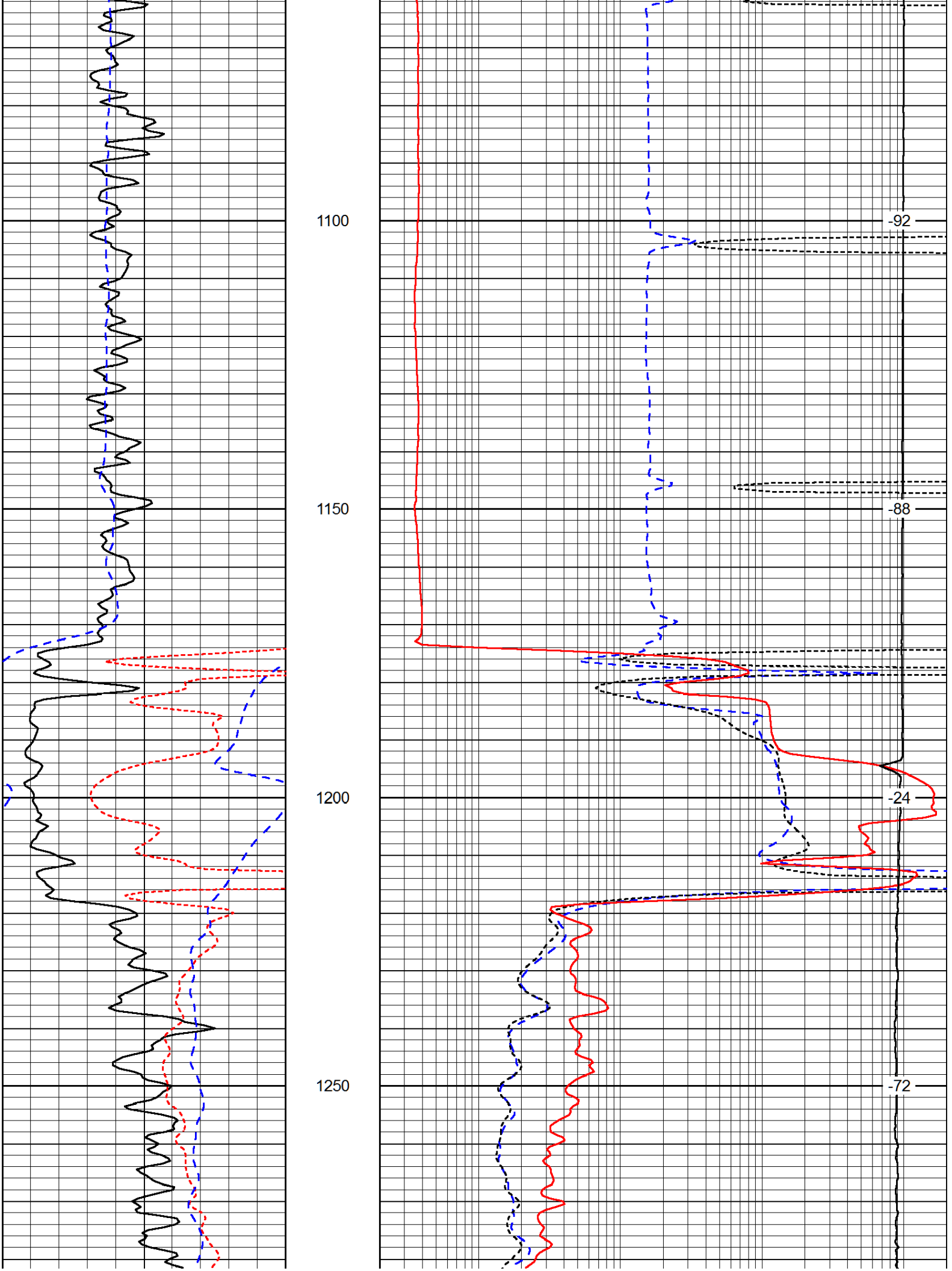
1000
1050
-94
-93
-93
-93
-93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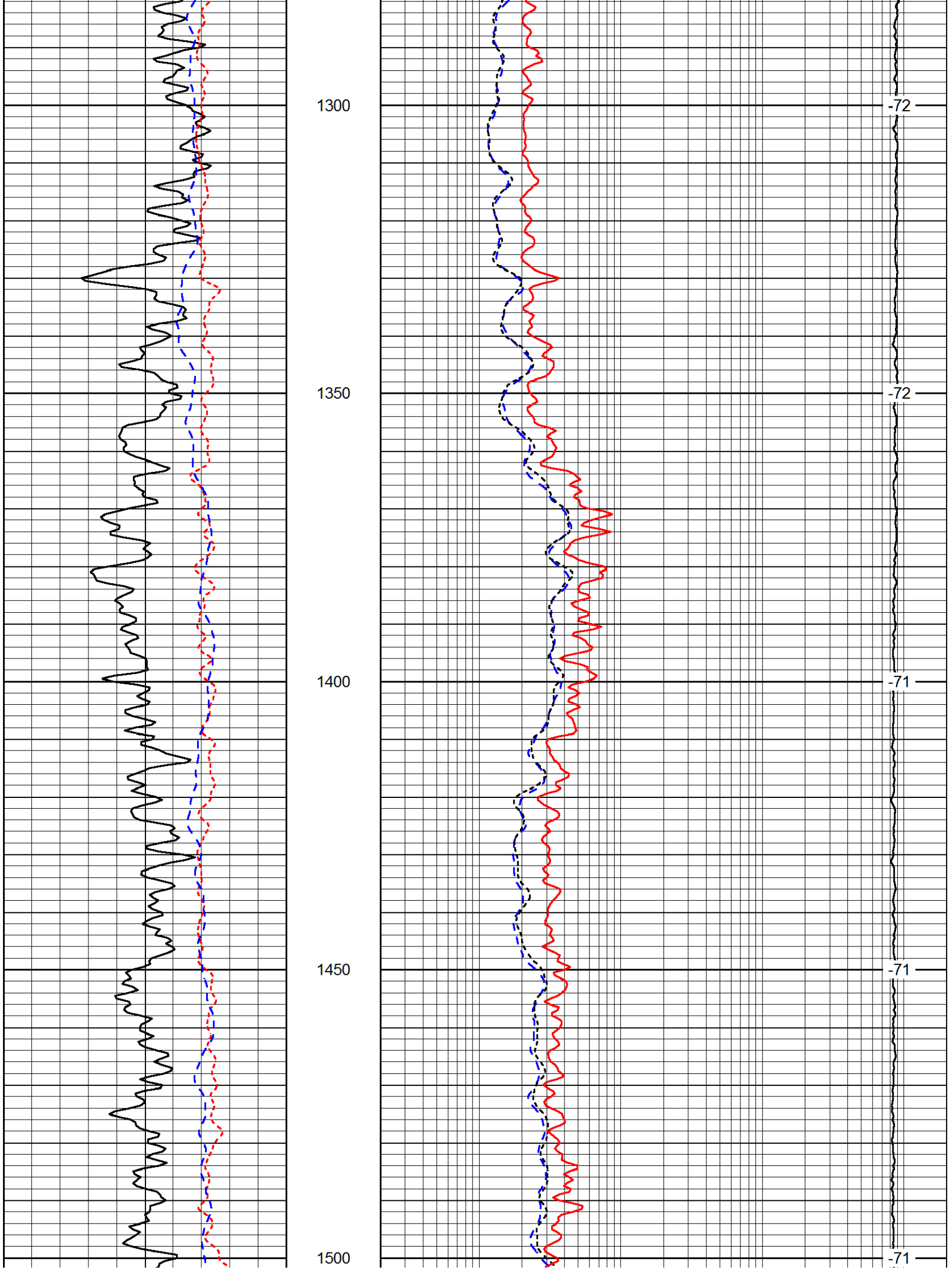
1150
1200
1250
-92
-88
-24
-72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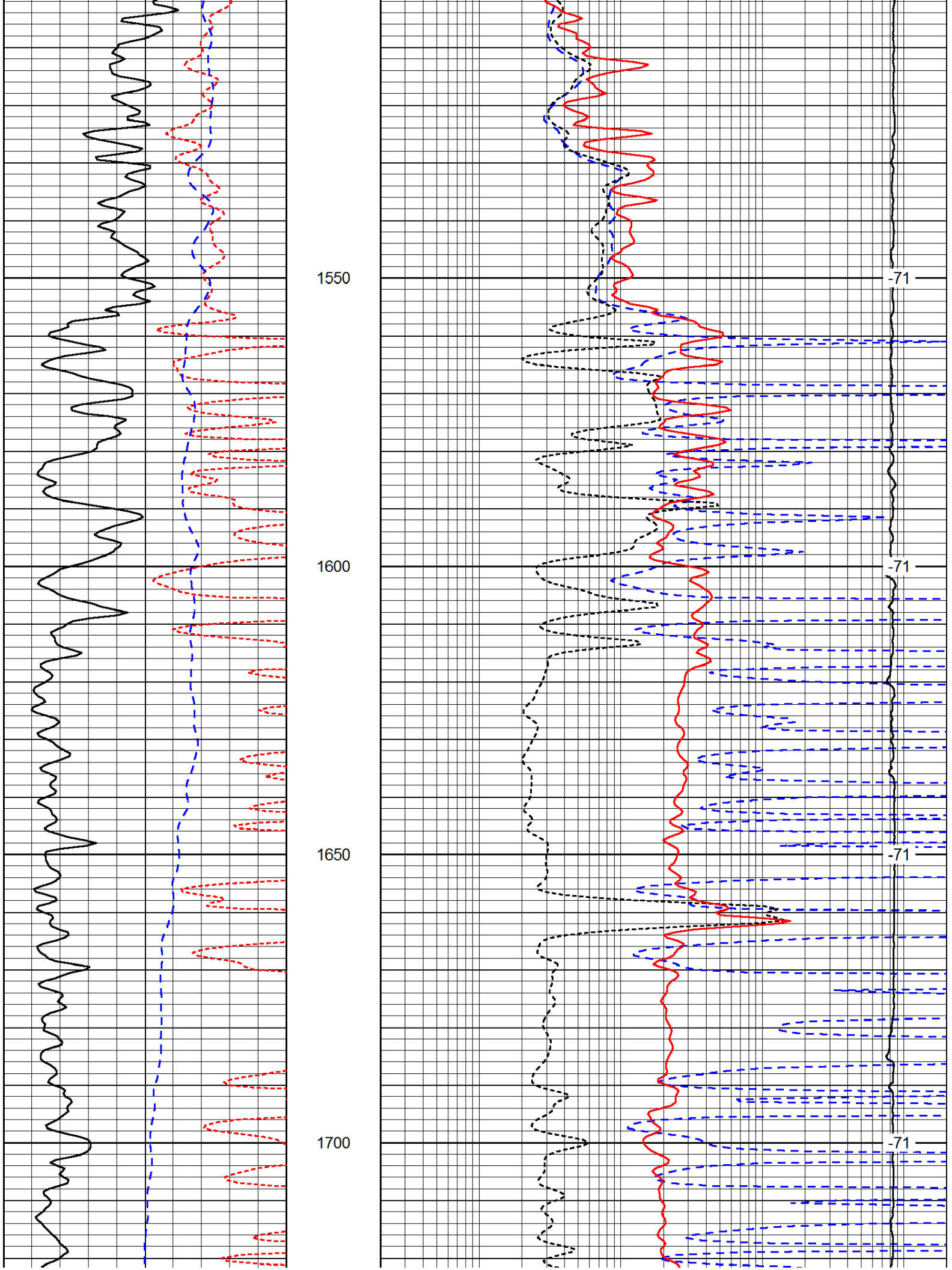
1350
1400
1450
1500
-72
-72
-71
-71
-71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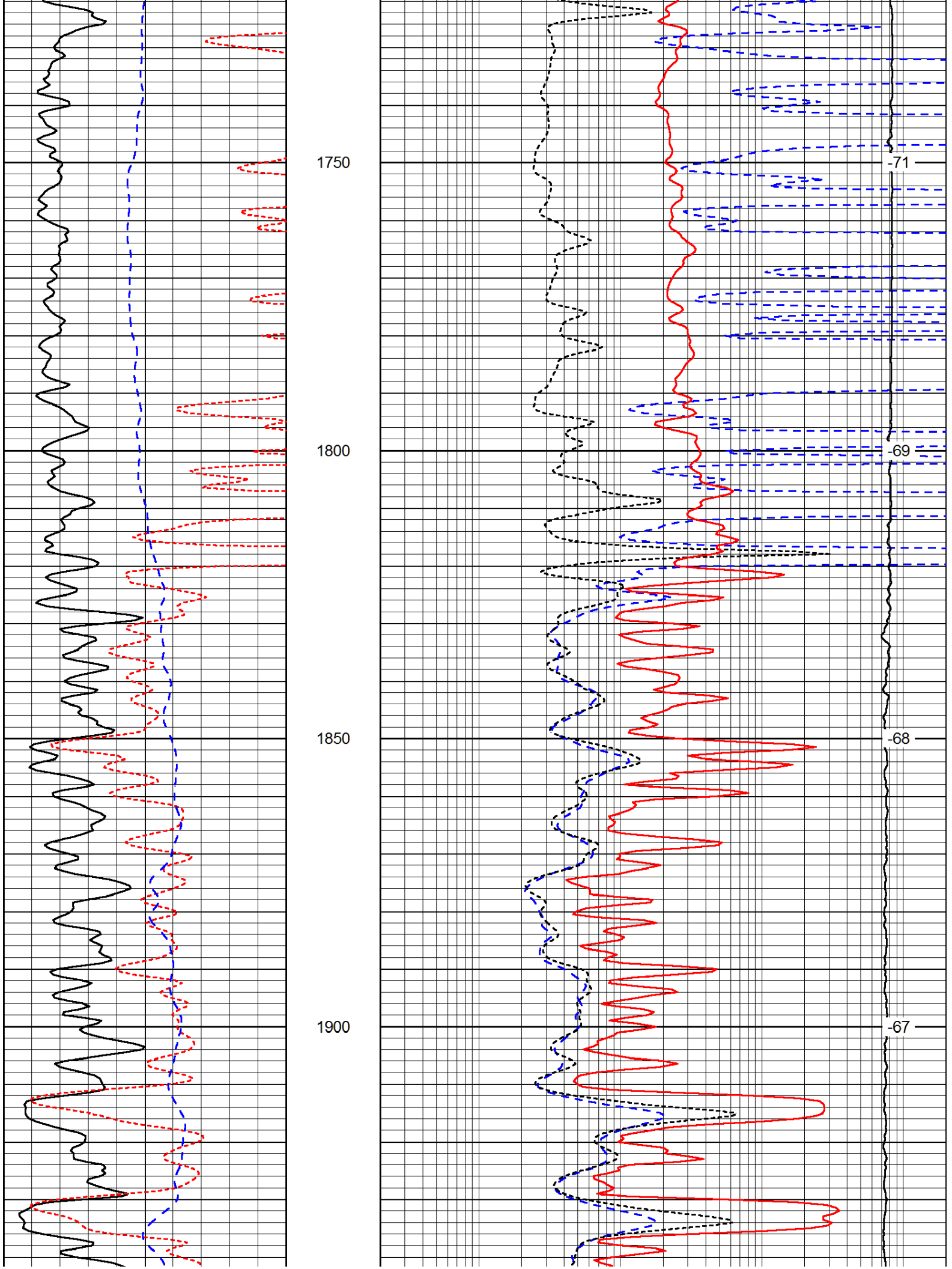
-71
-71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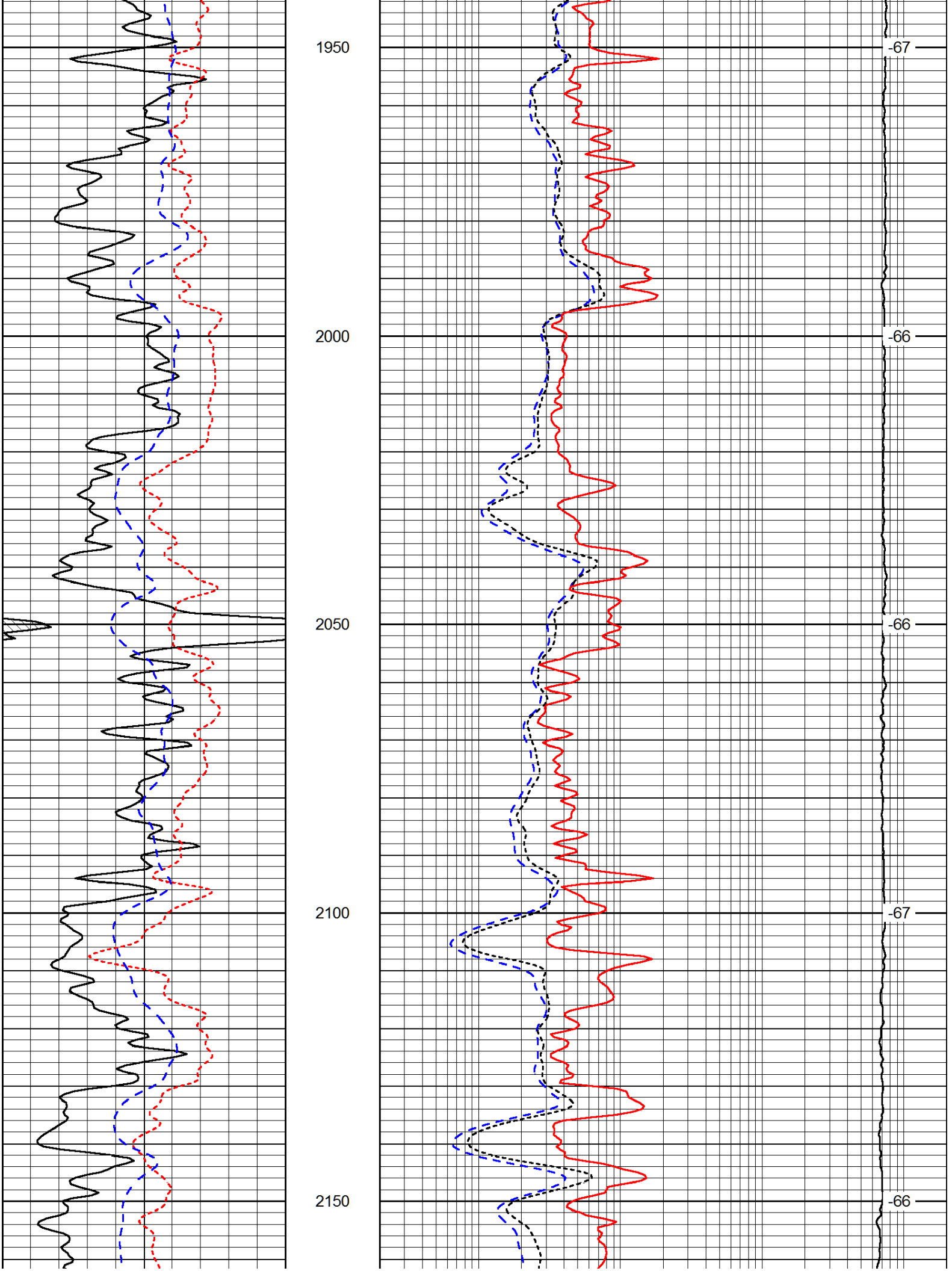
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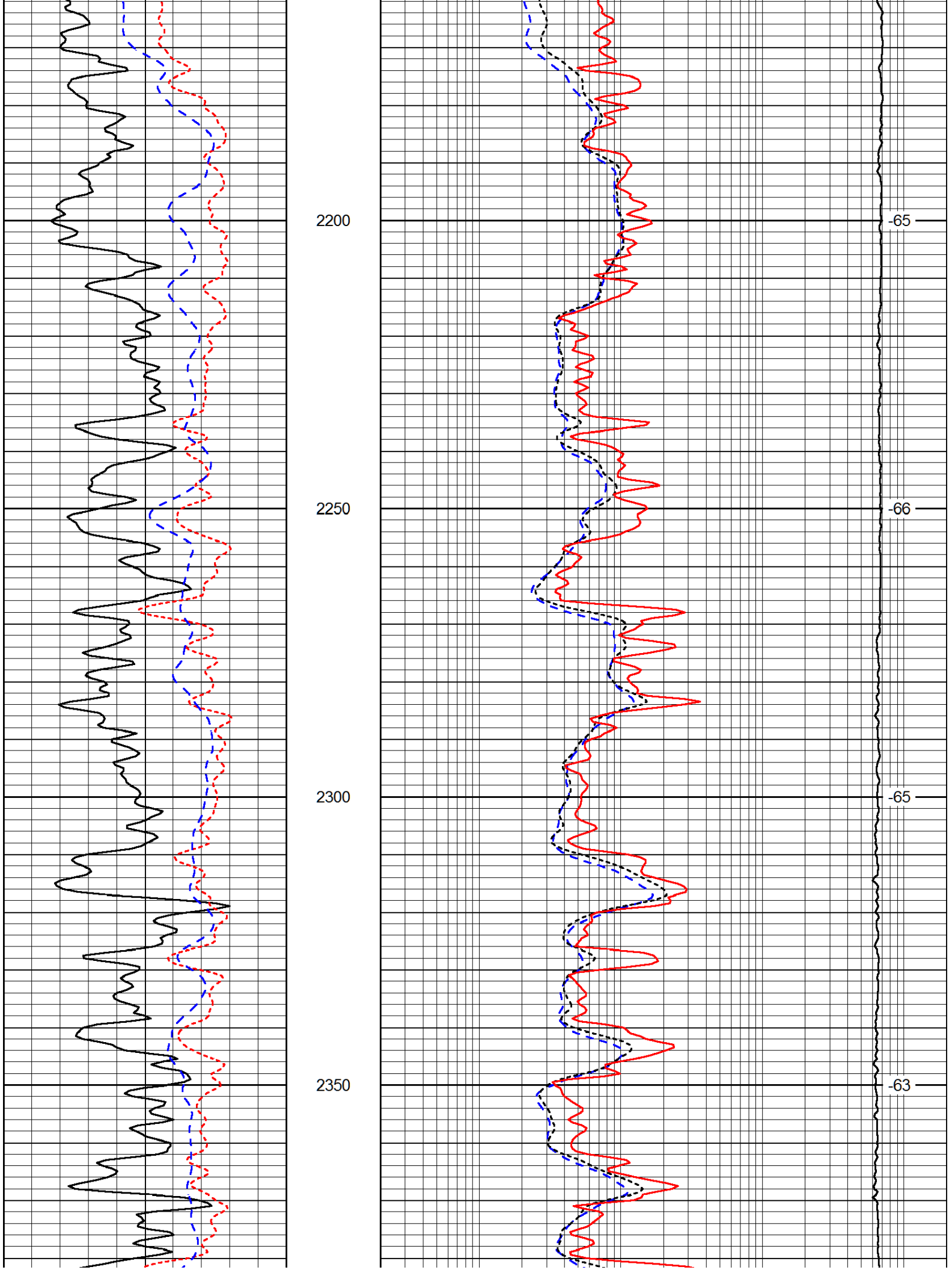
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2250
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-65
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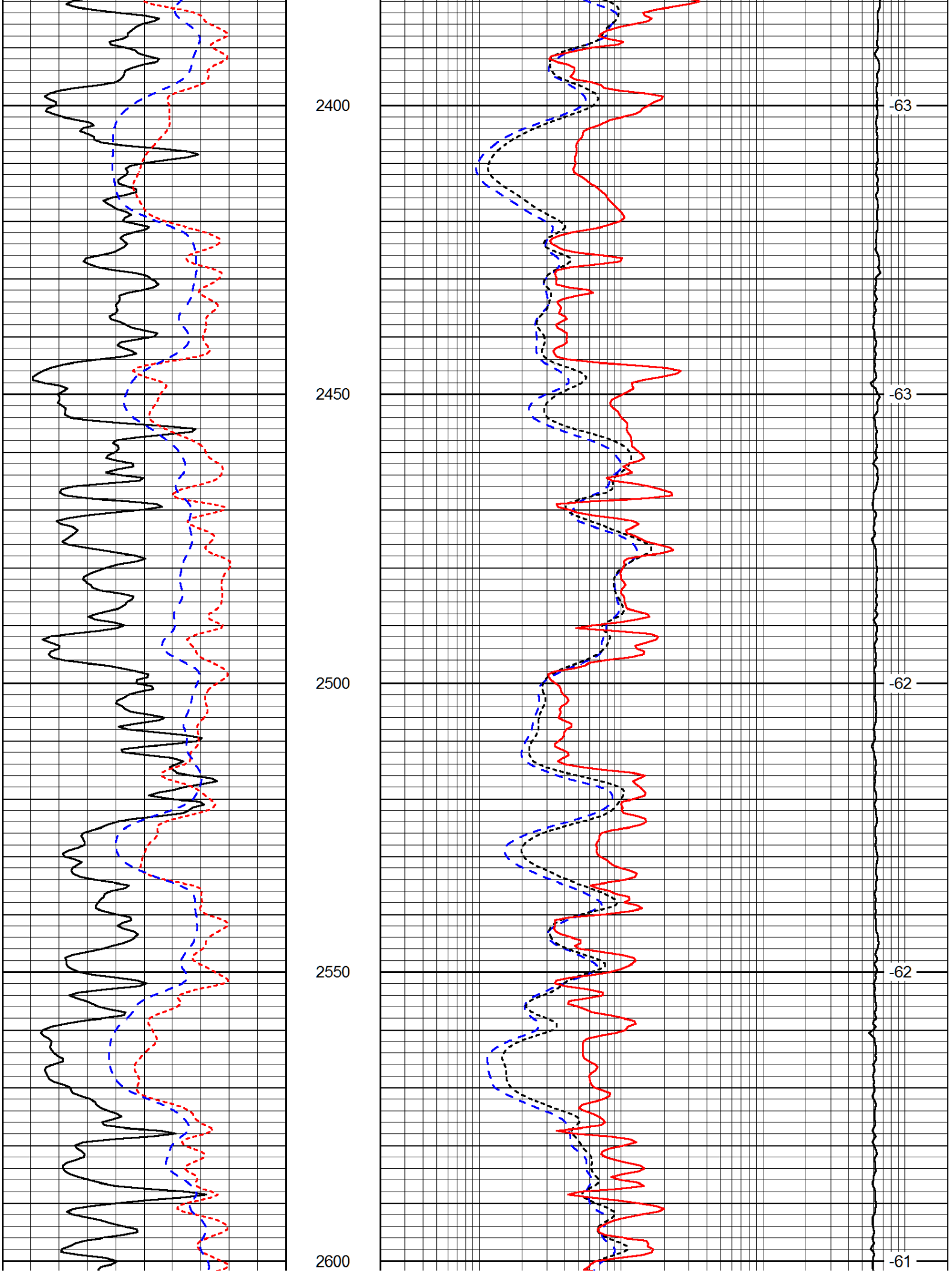
-65
-63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2500
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2600
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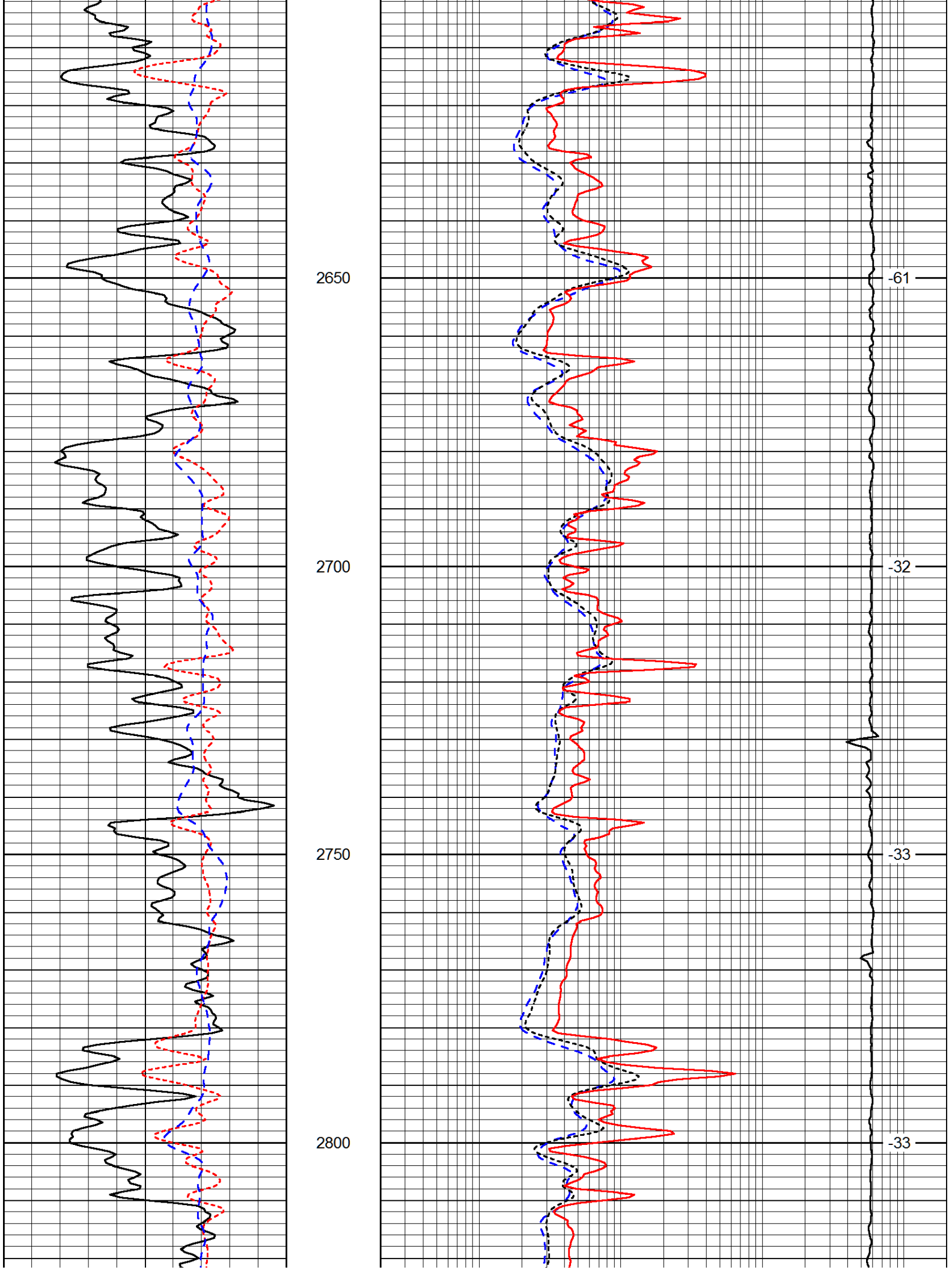
-62
-61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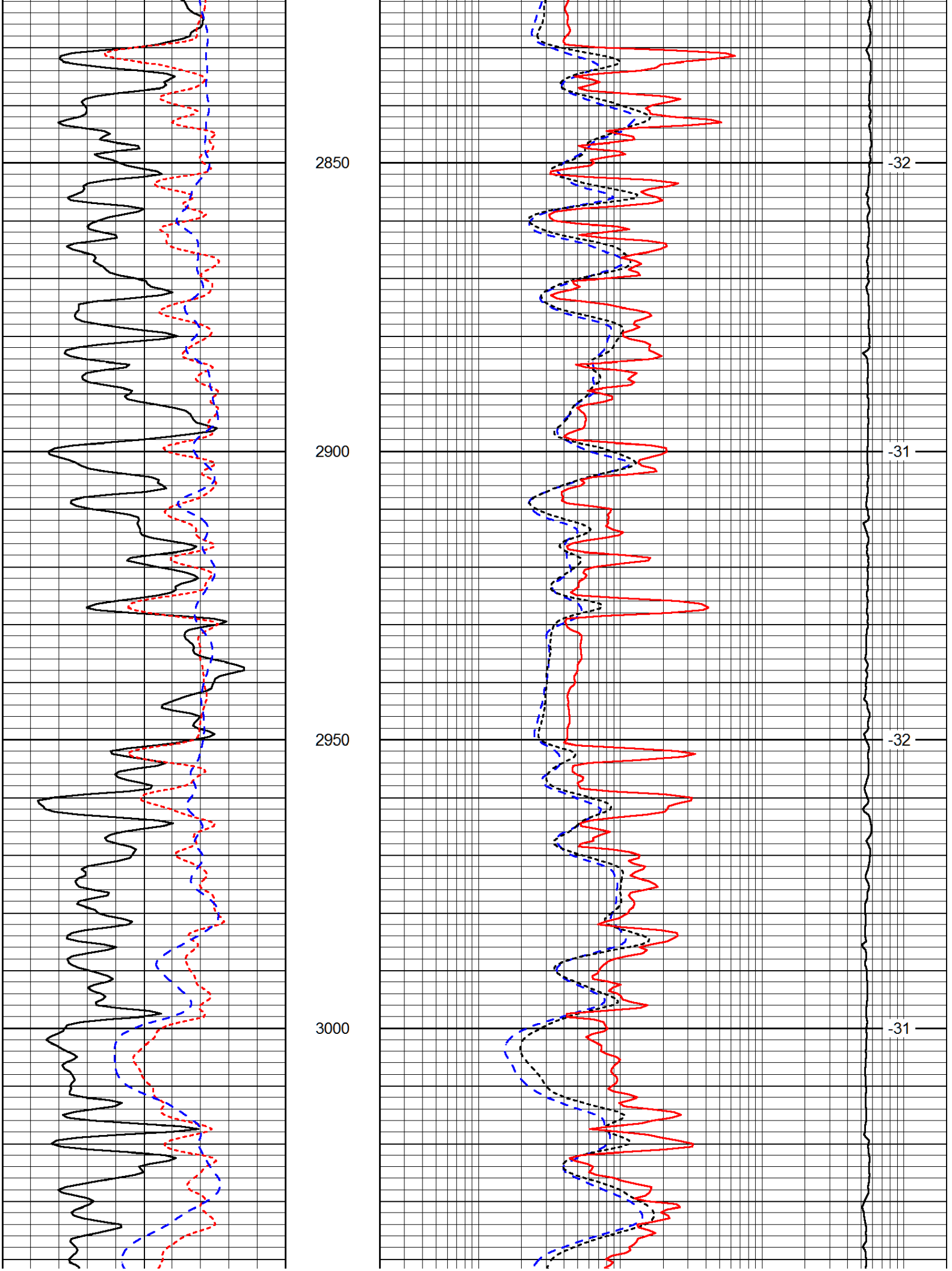
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2900
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3000
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-31
-32
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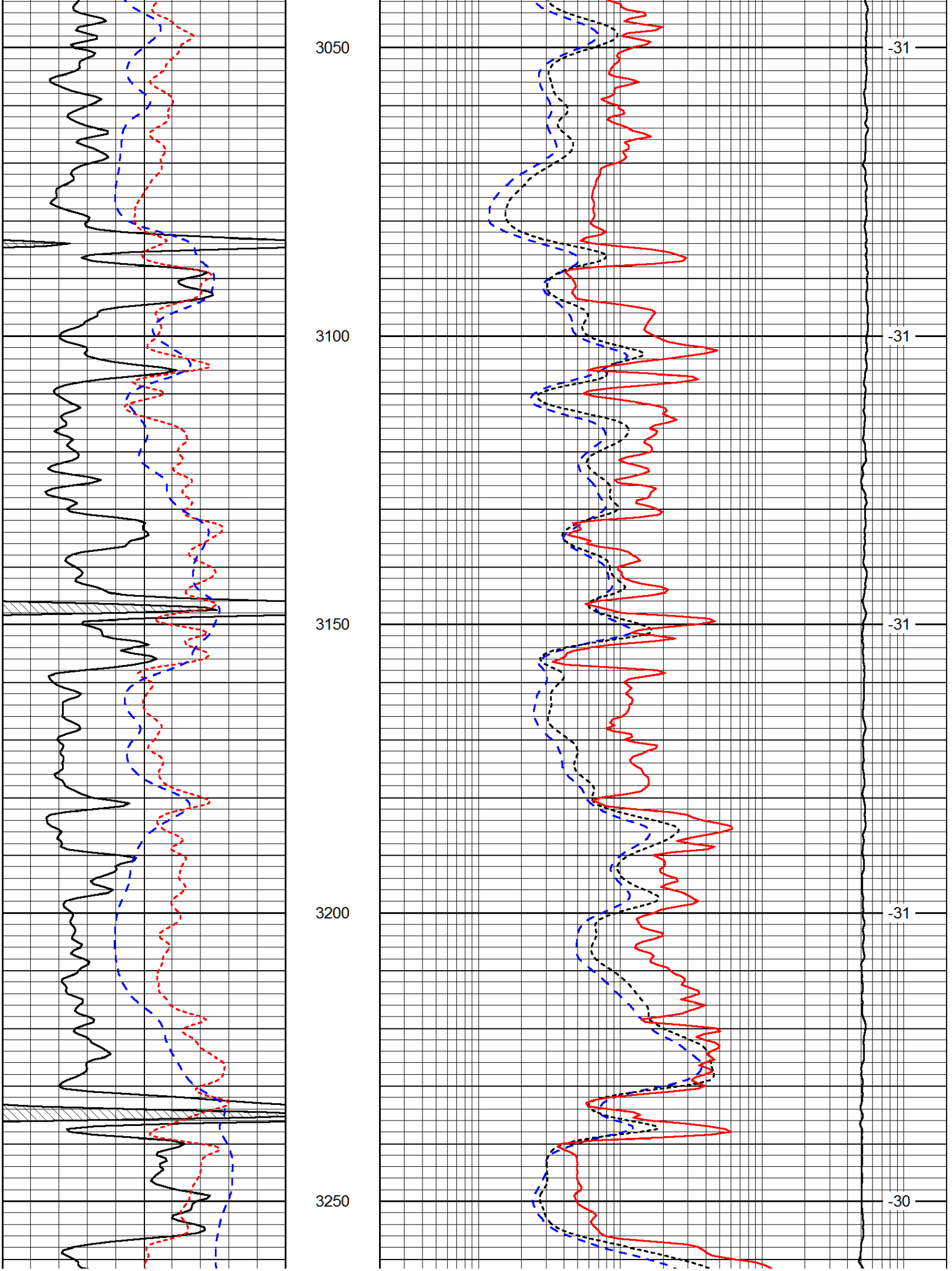
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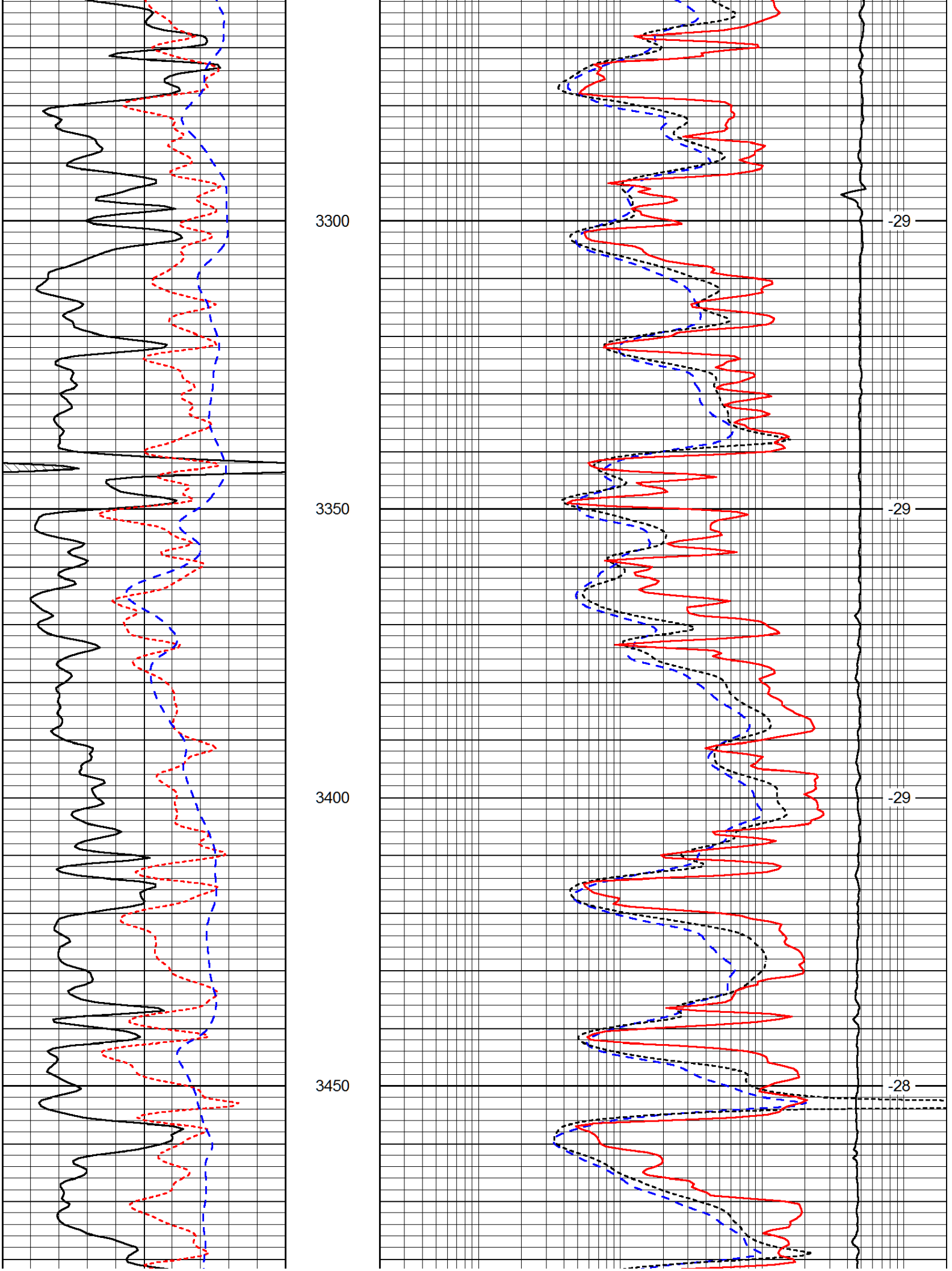
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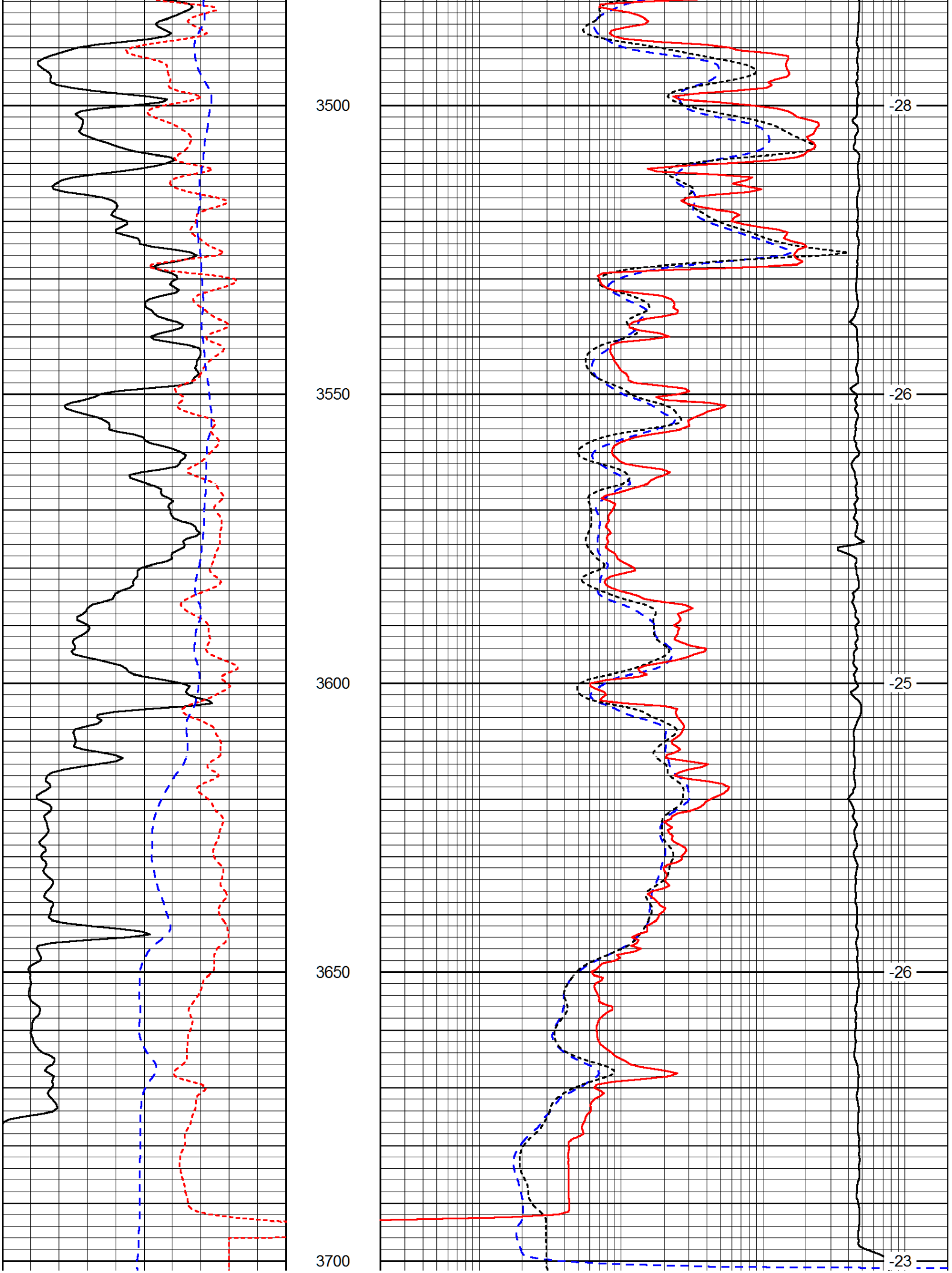
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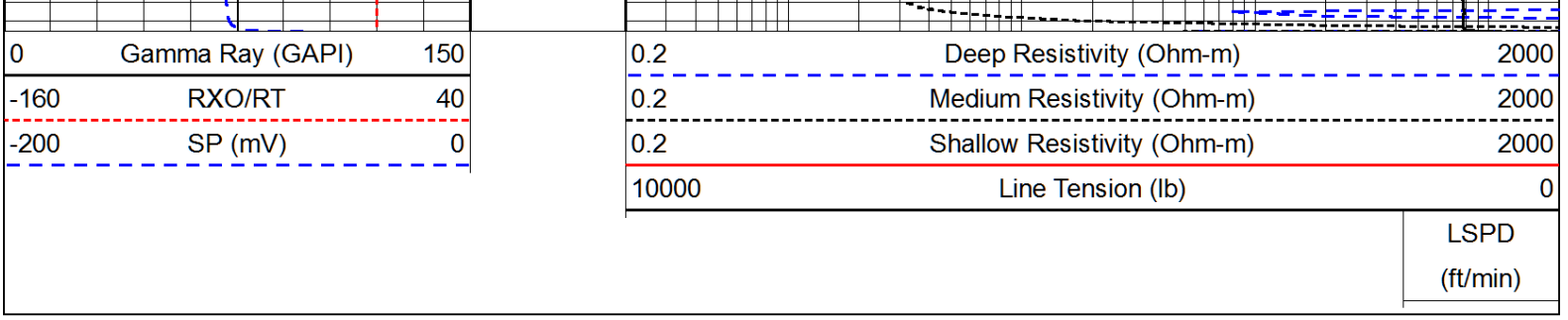

0	Gamma Ray (GAPI)	150
-160	RXO/RT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
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LSPD
(ft/min)