PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-151-22,439-00-00

Company Timberline Oil & Gas Corporation

Well Harrel No.10

Field Iuka-Carmi

County Pratt State Kansas

Location 2336' FSL & 757' FEL

Sec: 36 Twp: 26S Rge: 13W

Permanent Datum Ground Level Elevation 1919

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL

Elevation
K.B. 1929
D.F.
G.L. 1919

Date	9/30/2014		
Run Number	Two		
Depth Driller	4309		
Depth Logger	4314		
Bottom Logged Interval	4313		
Top Log Interval	1800		
Casing Driller	8.625 @ 324		
Casing Logger	323		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	6,000		
Density / Viscosity	9.4 | 42		
pH / Fluid Loss	10.5 | 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.55 @ 71		
Rmf @ Meas. Temp	.41 @ 71		
Rmc @ Meas. Temp	.74 @ 71		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.33 @ 119		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	119		
Equipment Number	10		
Location	Hays		
Recorded By	C. Desaire		
Witnessed By	Scott Alberg		

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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

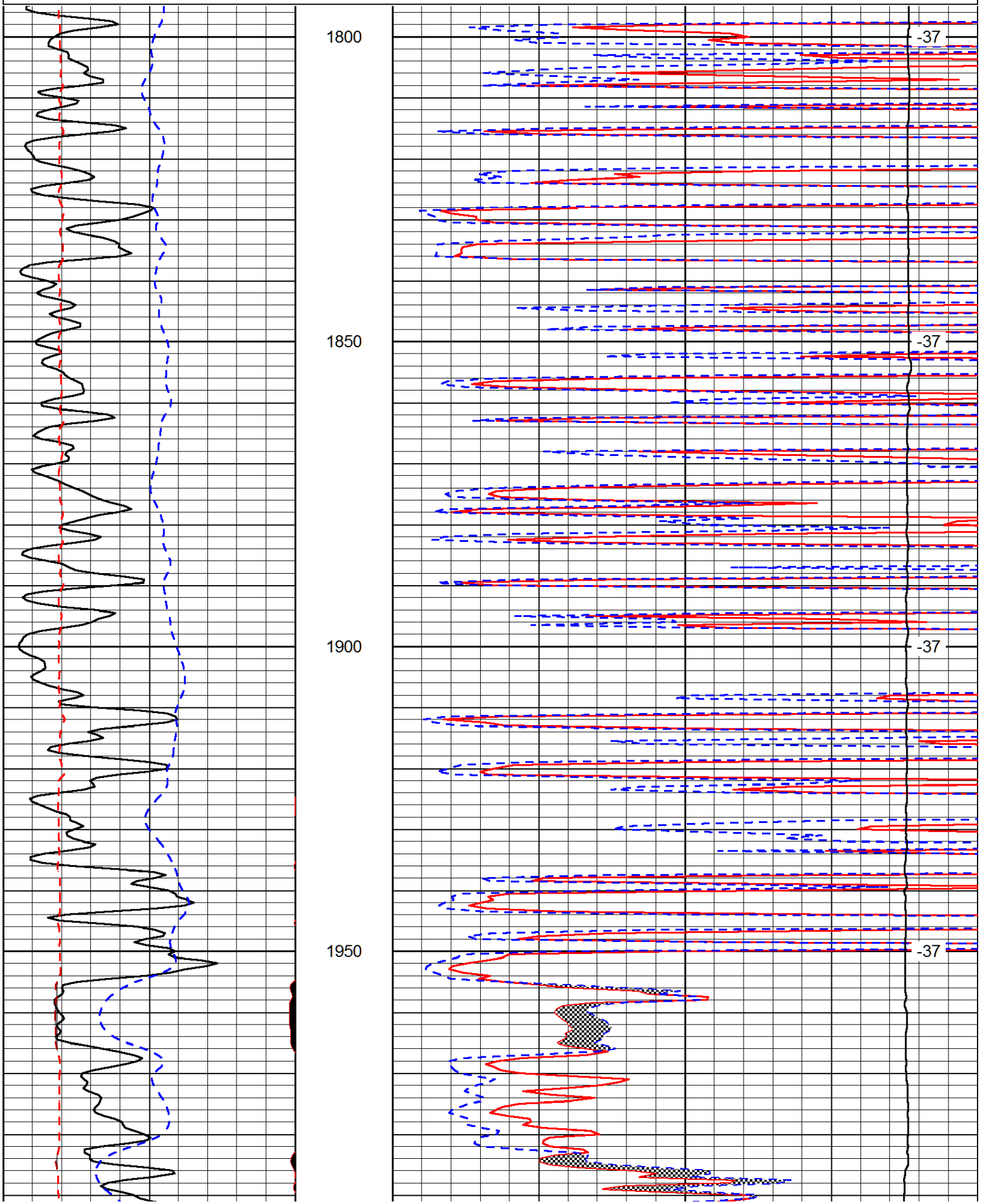
Iuka KS, 1 1/2 N to 70th st,
3 E, 1/2 S, W Into

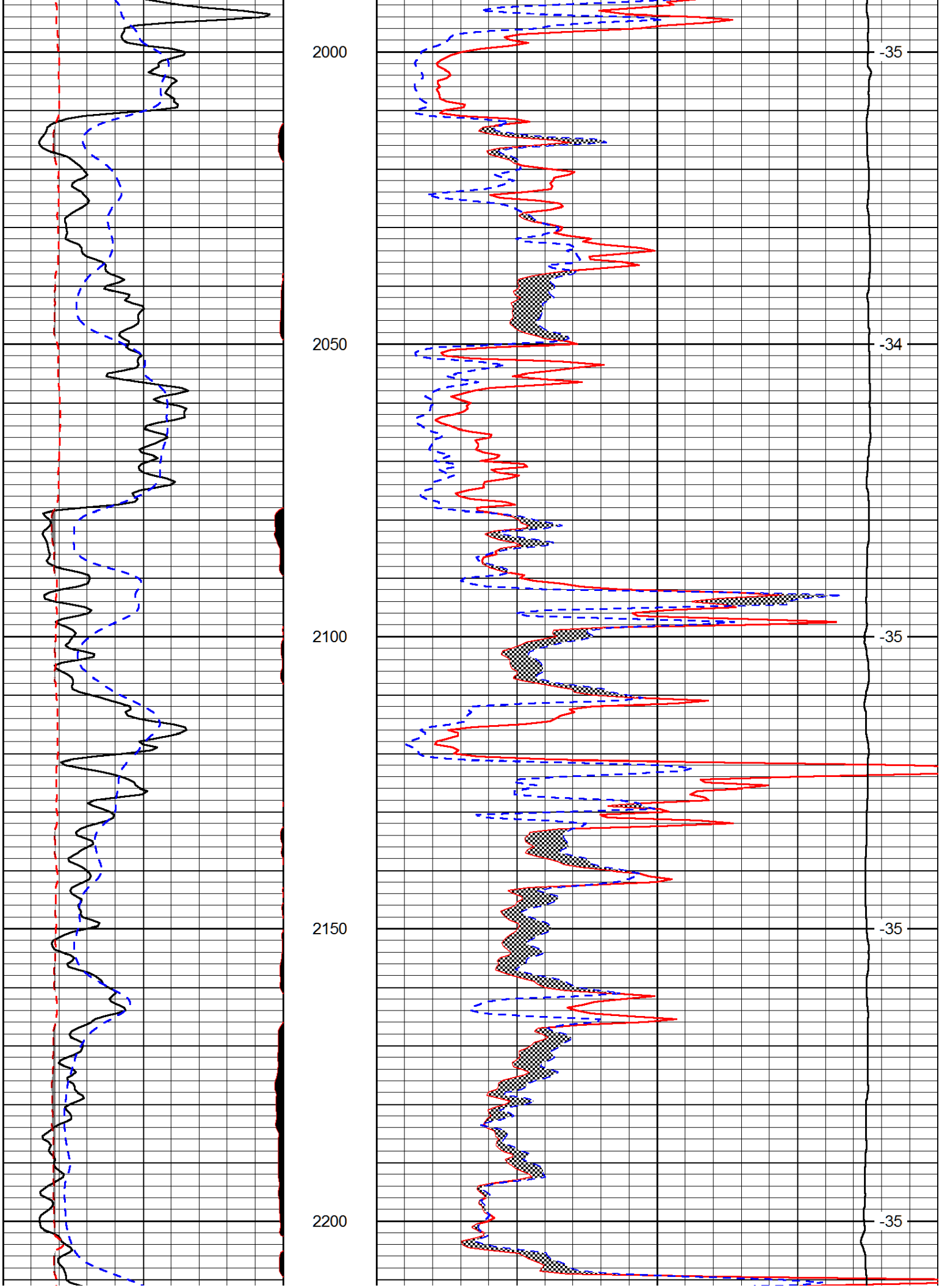
Database File:	timhd.db
Dataset Pathname:	dil/timstk
Presentation Format:	micro
Dataset Creation:	Tue Sep 30 09:31:15 2014
Charted by:	Depth in Feet scaled 1:240

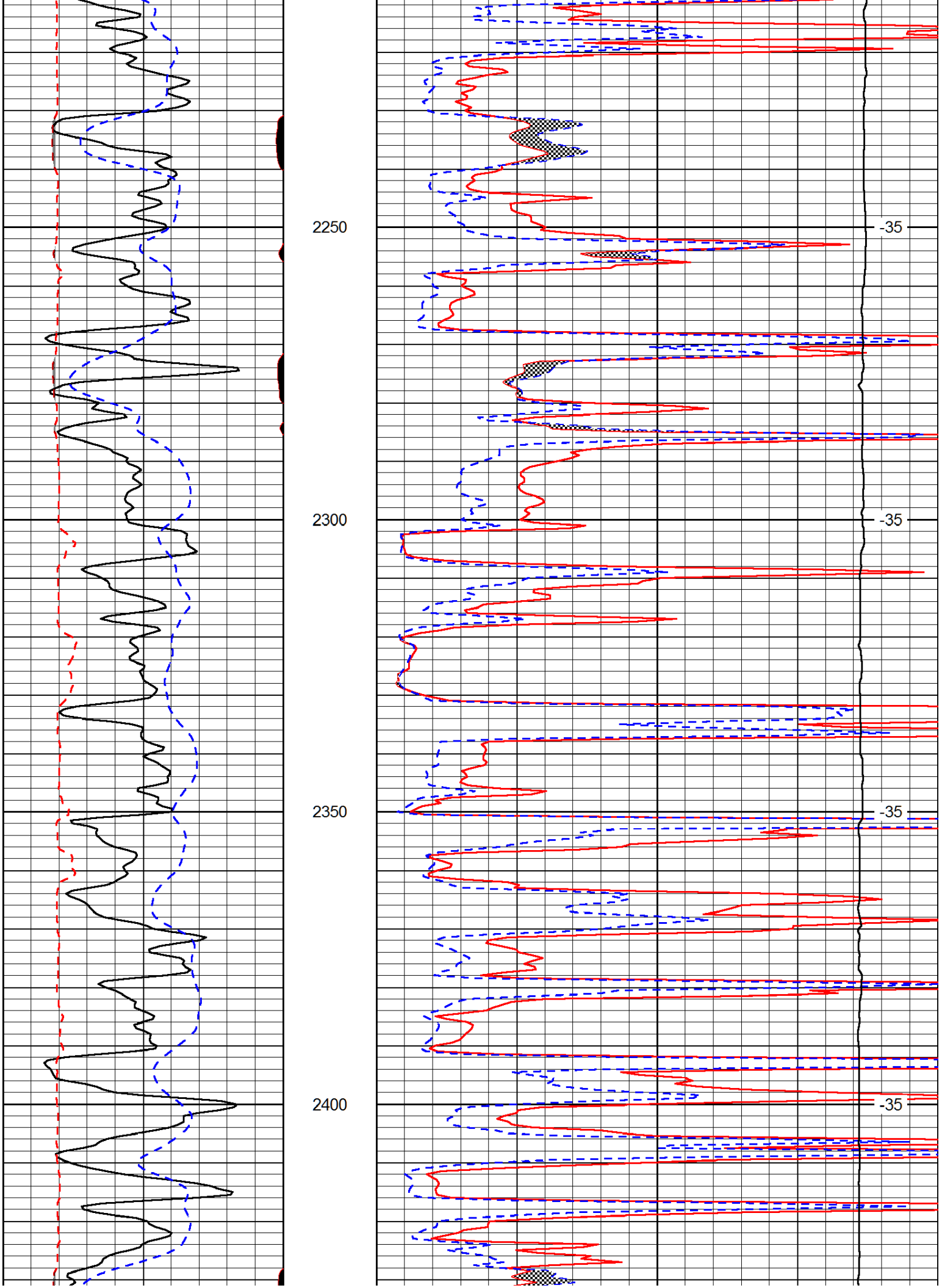
0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

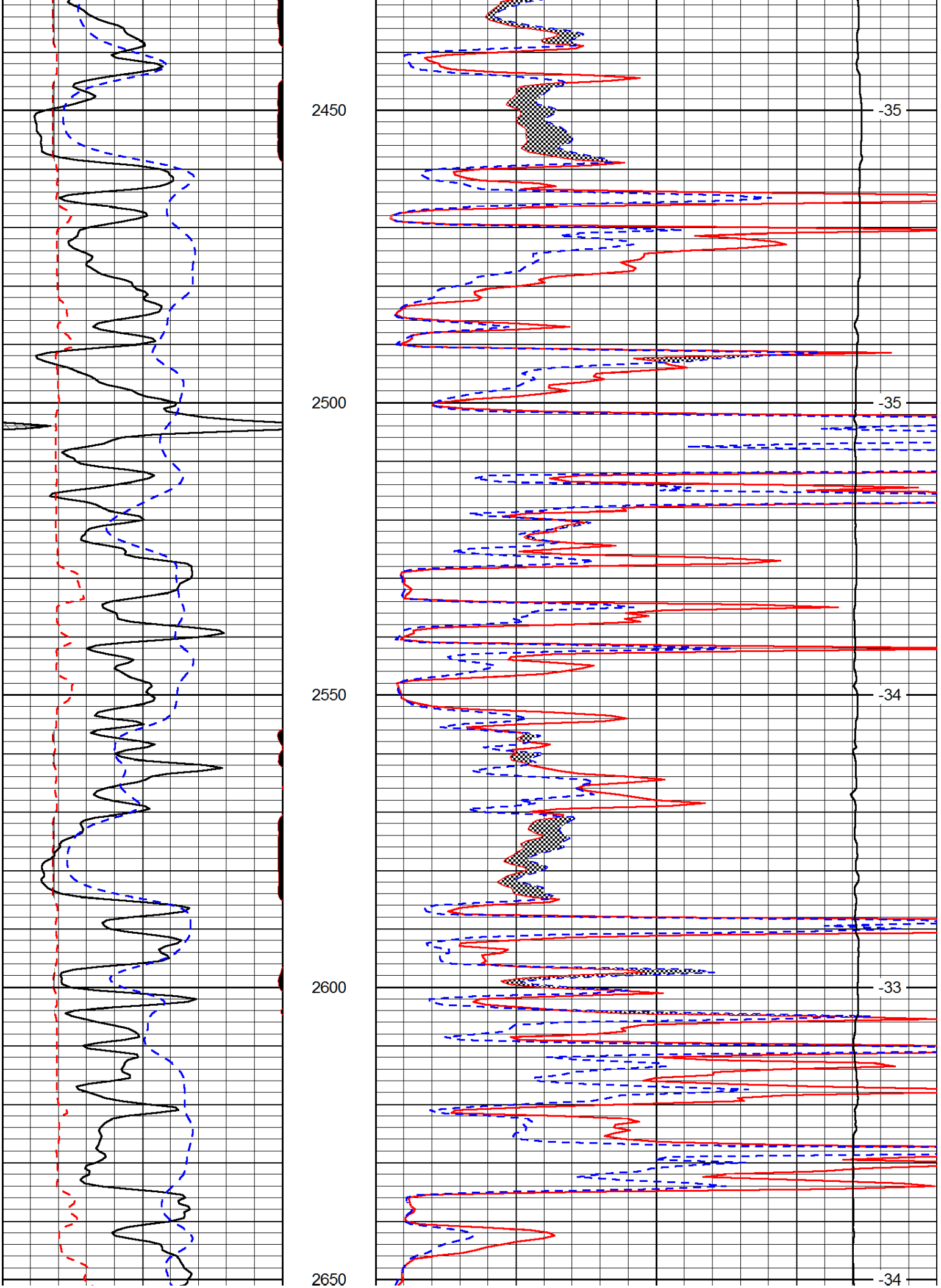
0	Micro Inverese 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

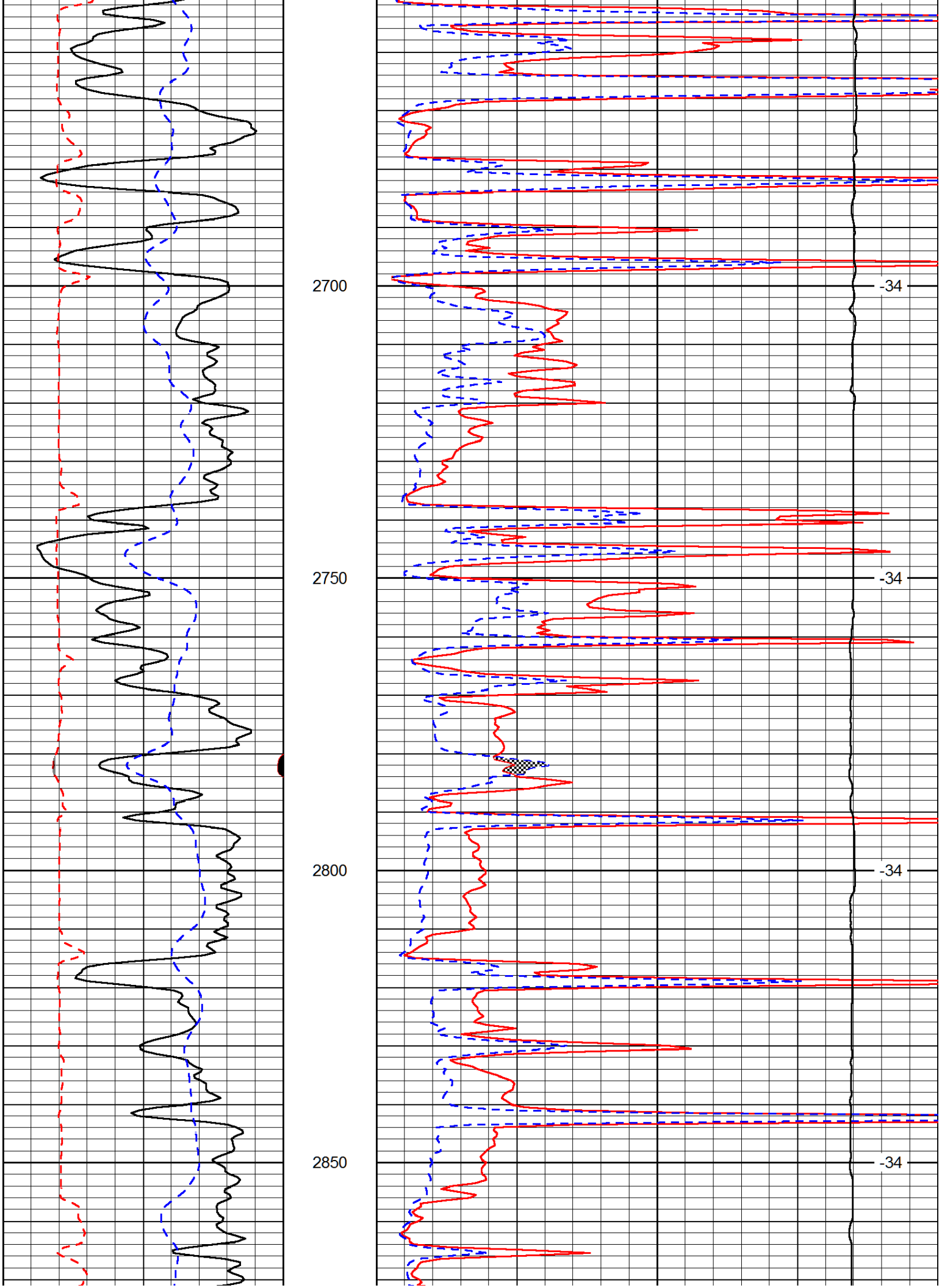
LSPD

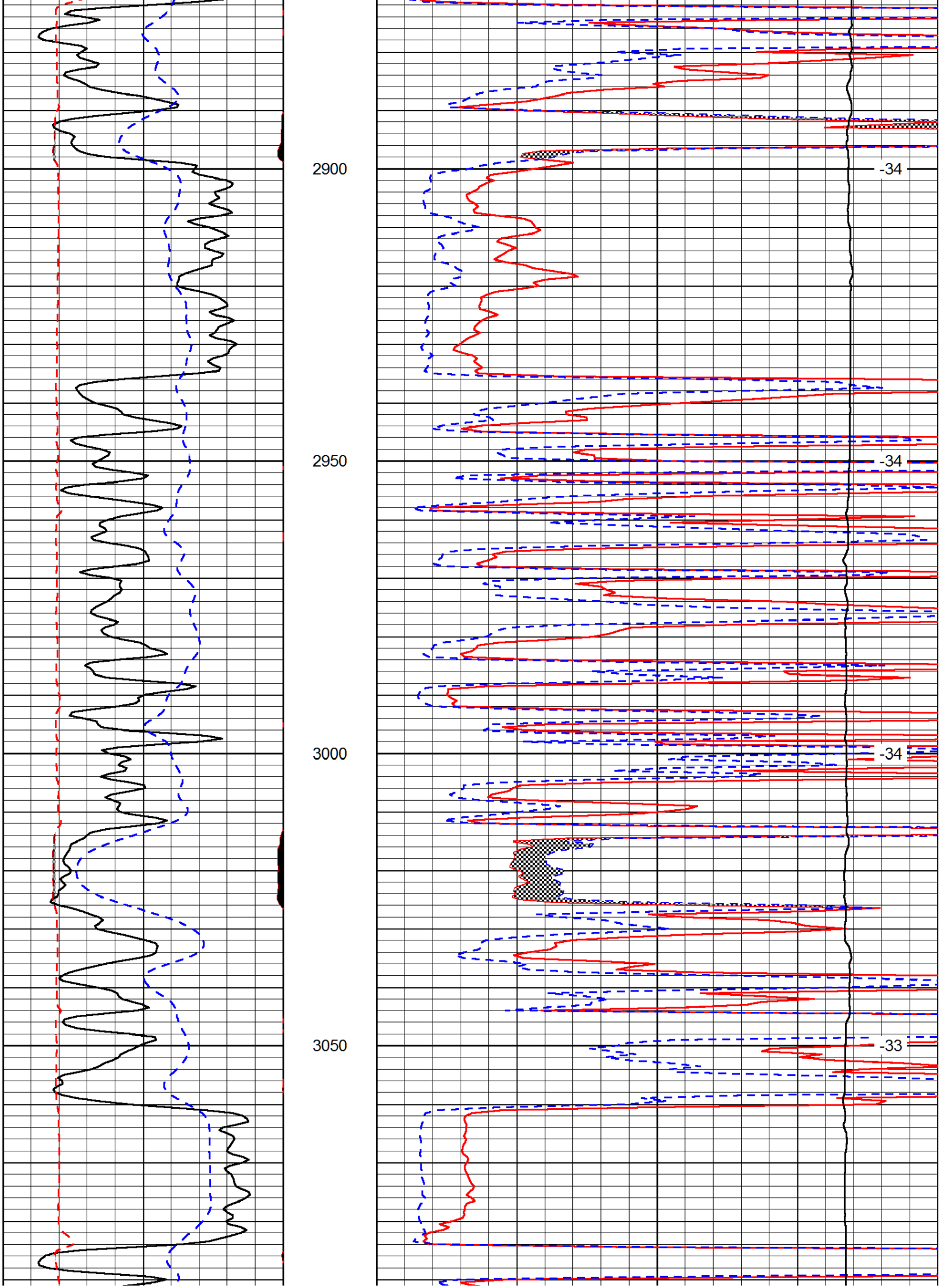


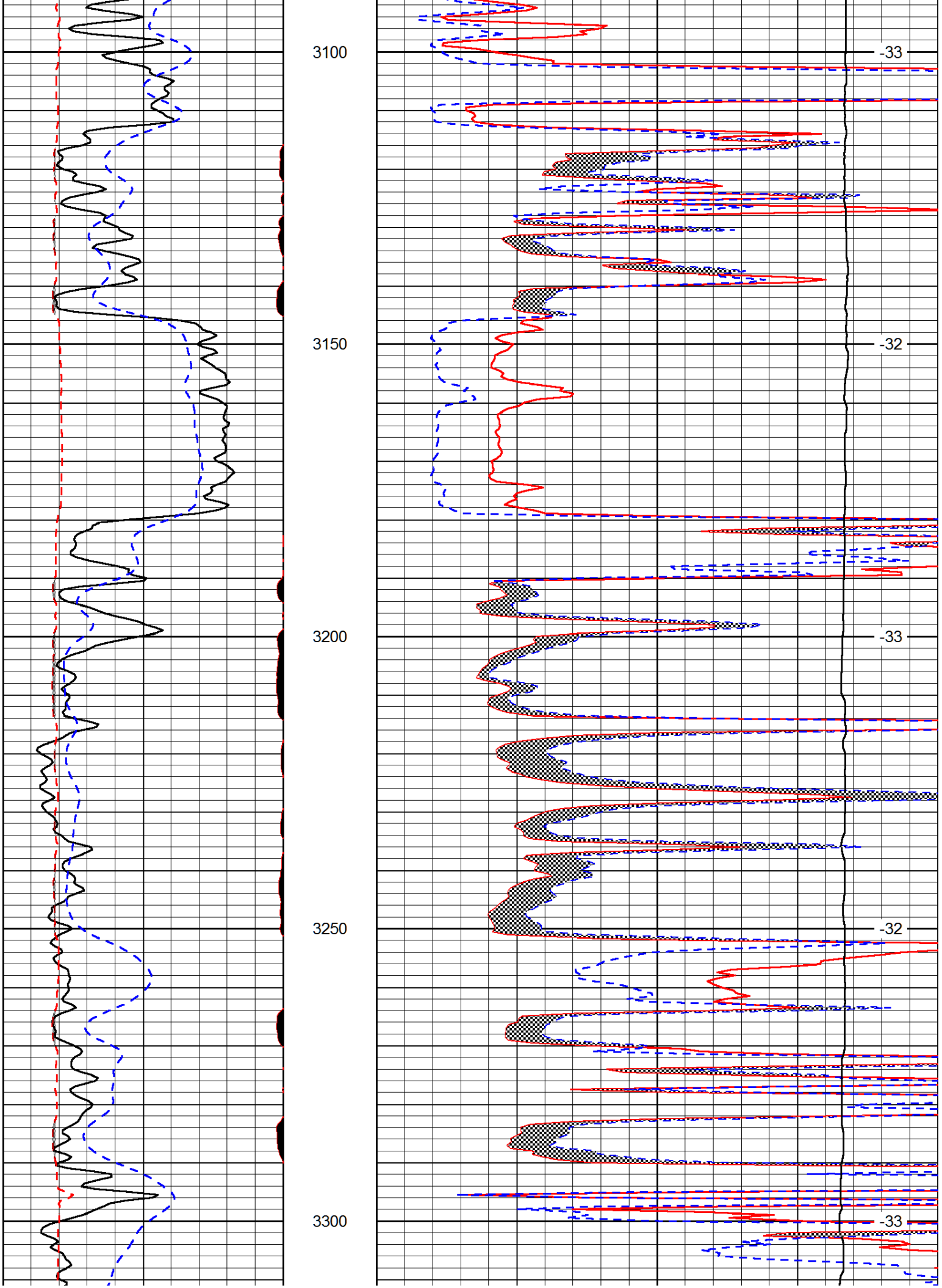

2000
2050
2100
2150
2200
-35
-34
-35
-35
-35

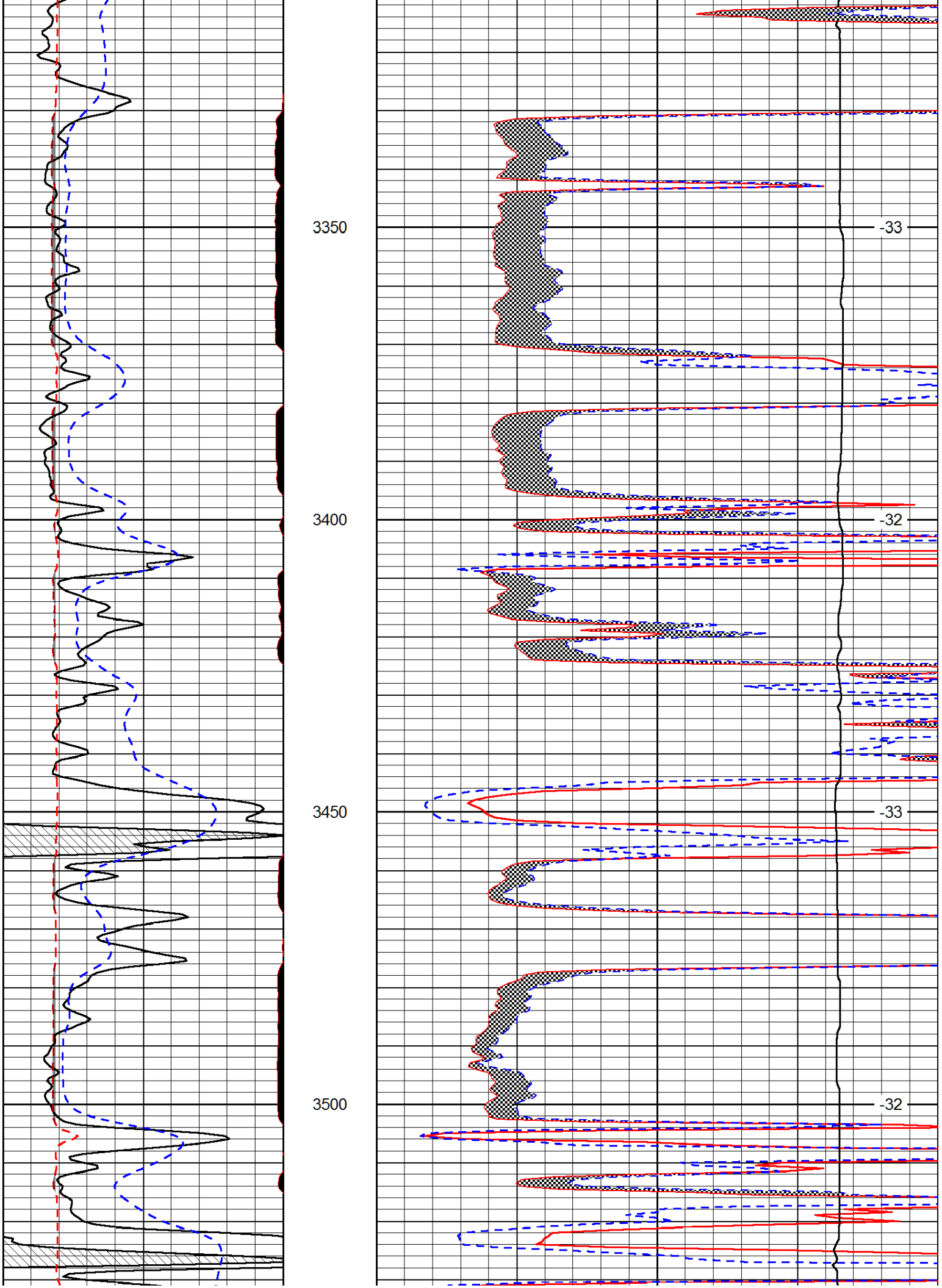

2250
2300
2350
2400
-35
-35
-35
-35

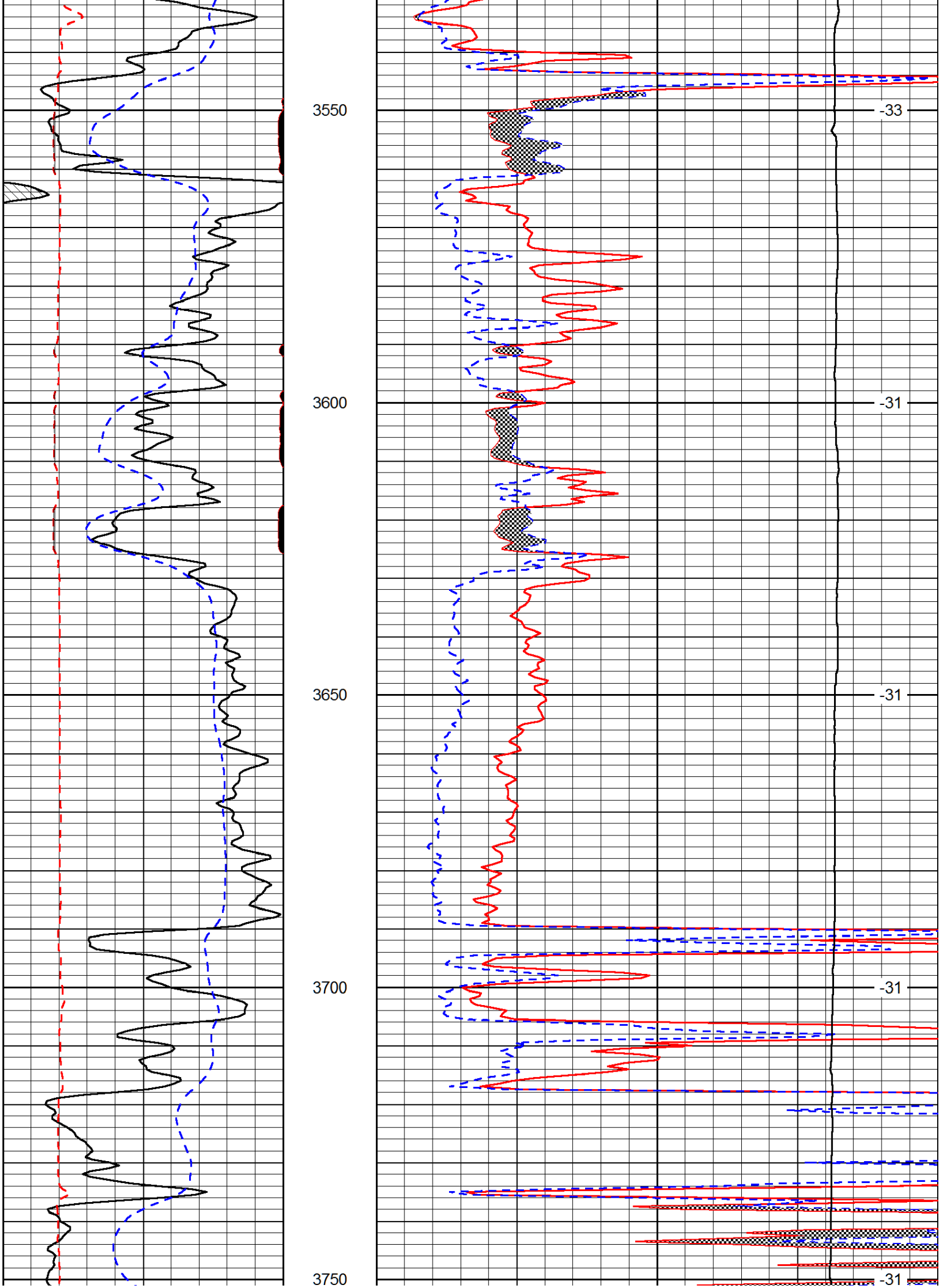

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2500
2550
2600
2650
-35
-35
-34
-33
-34

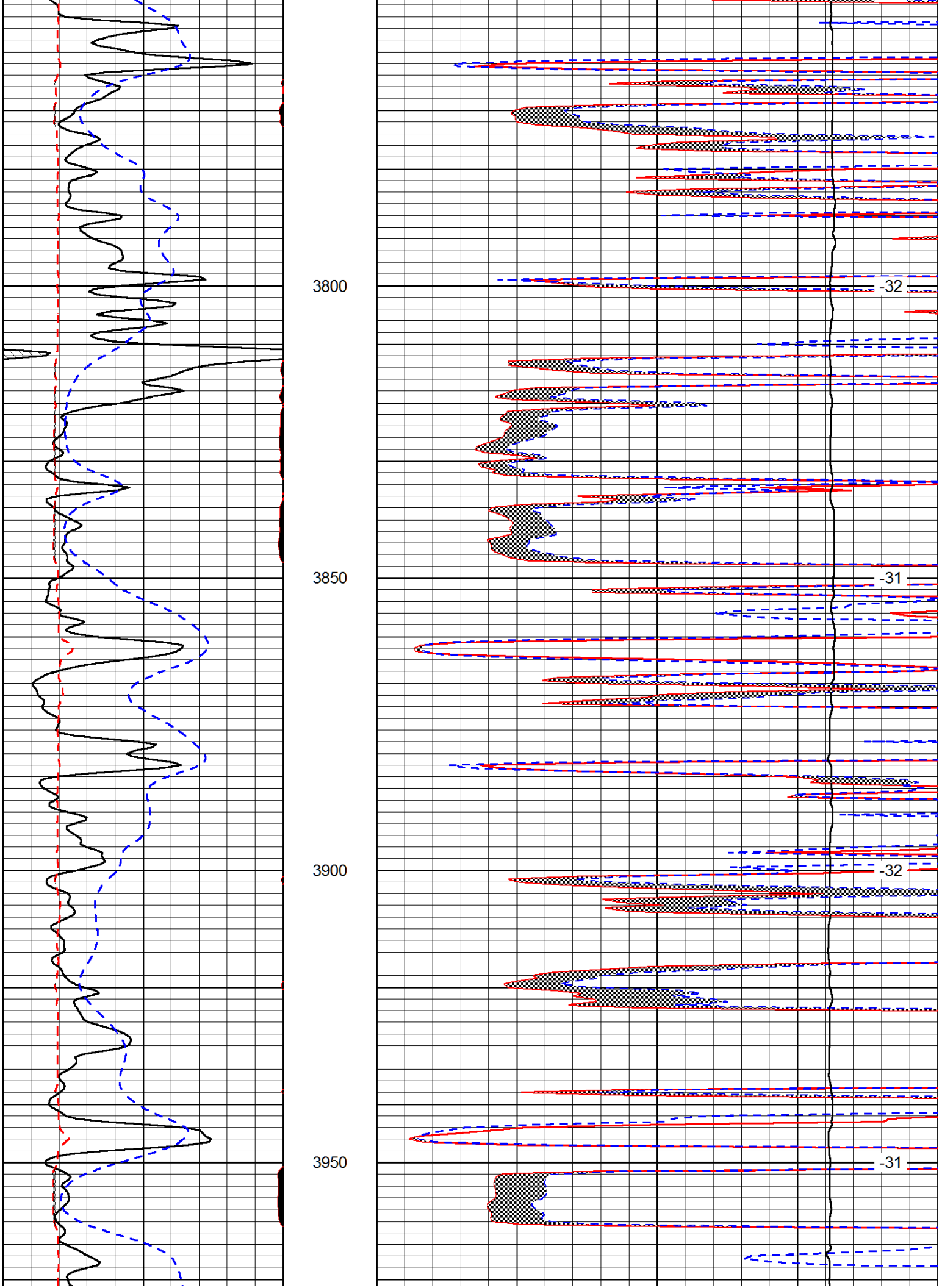

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2750
2800
2850
-34
-34
-34
-34

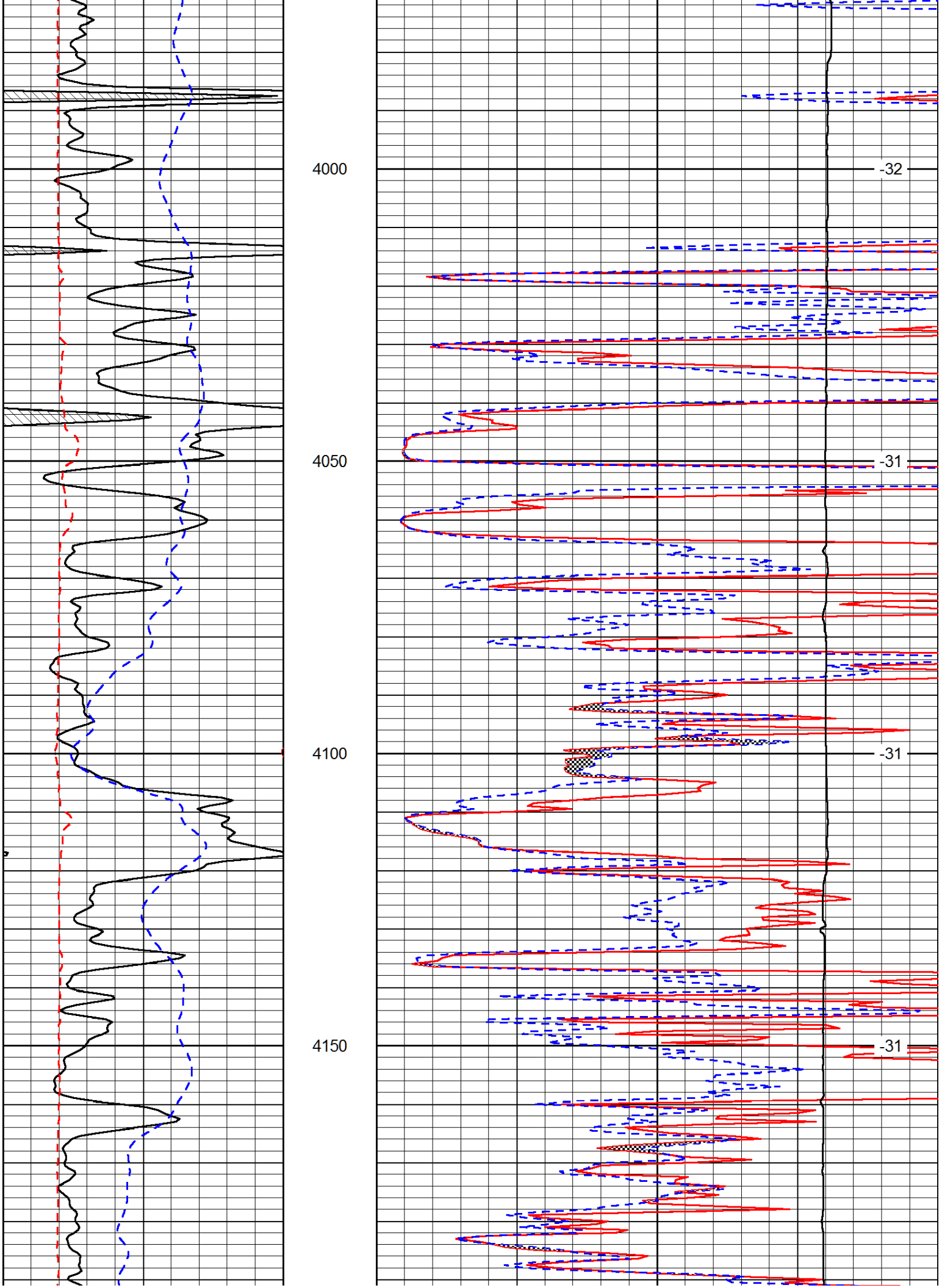

2900
2950
3000
3050
-34
-34
-34
-33

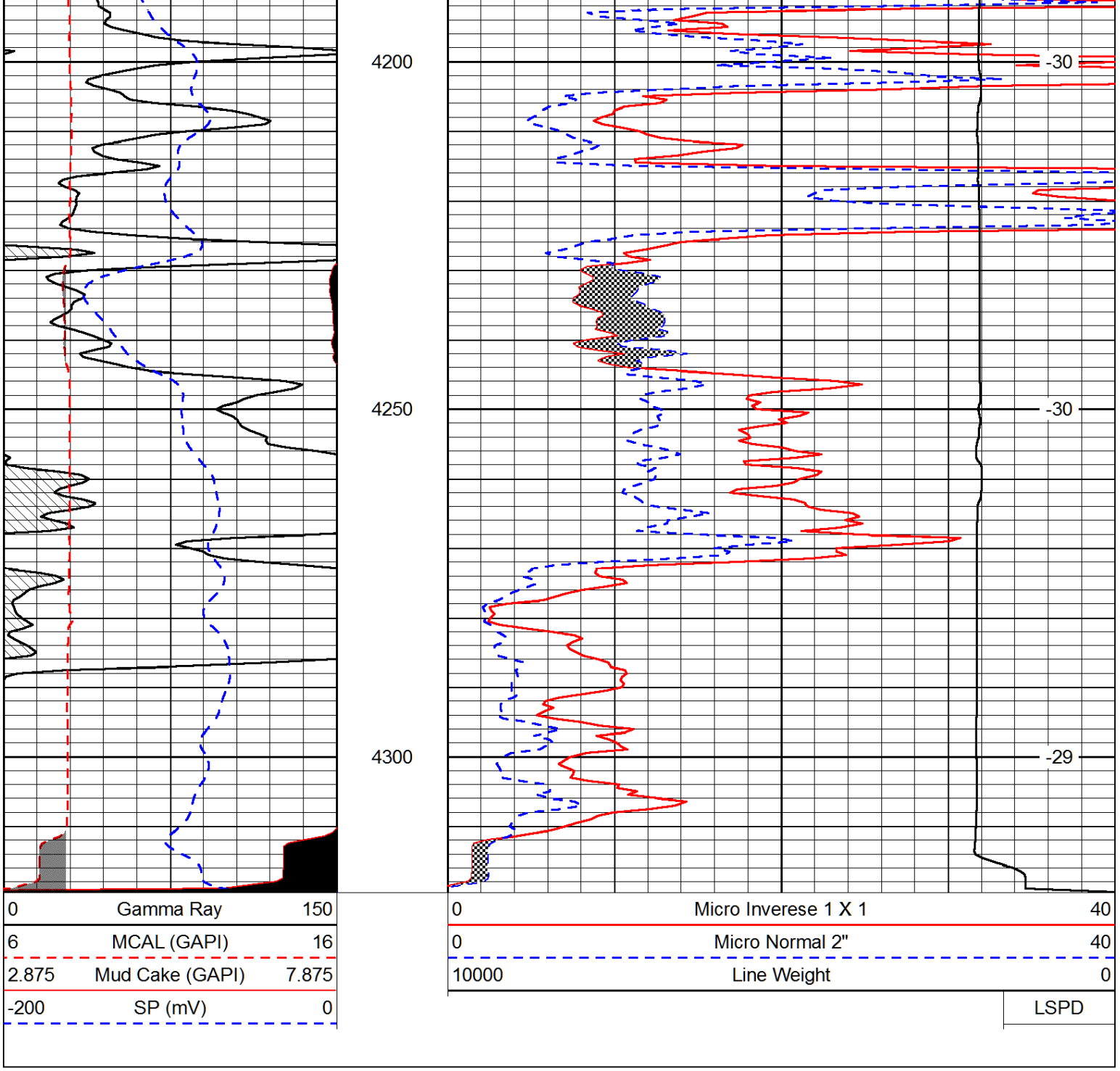

3100
3150
3200
3250
3300
-33
-32
-33
-32
-33


3350
3400
3450
3500
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-32
-33
-32


3550
3600
3650
3700
3750
-33
-31
-31
-31
-31


3800
-32
3850
-31
3900
-32
3950
-31


4000
4050
4100
4150
-32
-31
-31
-31



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