



Pioneer Energy Services

Microresistivity Log

15-047-21641-00-00

Company **Toto Energy, LLC**
 Well **Acoustic Guitar #16-1**
 Field **Will**
 County **Edwards** State **Kansas**

Location **W2 W2 E2 SE
 1320' FSL / 1100' FEL**
 Sec: **16** Twp: **25S** Rge: **16W**

Other Services
 CNL/CDL
 DIL
 Elevation
 K.B. 2082
 D.F.
 G.L. 2072

Permanent Datum	Ground Level	Elevation 2072
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	10/24/2014	
Run Number	Two	
Depth Driller	4820	
Depth Logger	4818	
Bottom Logged Interval	4817	
Top Log Interval	3600	
Casing Driller	8.625 @ 359	
Casing Logger	354	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	6700	
Density / Viscosity	9.1 48	
pH / Fluid Loss	7.5 11.2	
Source of Sample	Flowline	
Rm @ Meas. Temp	0.48 @ 60	
Rmf @ Meas. Temp	0.36 @ 60	
Rmc @ Meas. Temp	0.65 @ 60	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.23 @ 124	
Operating Rig Time	4 Hours	
Max Rec. Temp. F	124	
Equipment Number	10	
Location	Hays	
Recorded By	R. Barnhart	
Witnessed By	Sonia McDanel	

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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

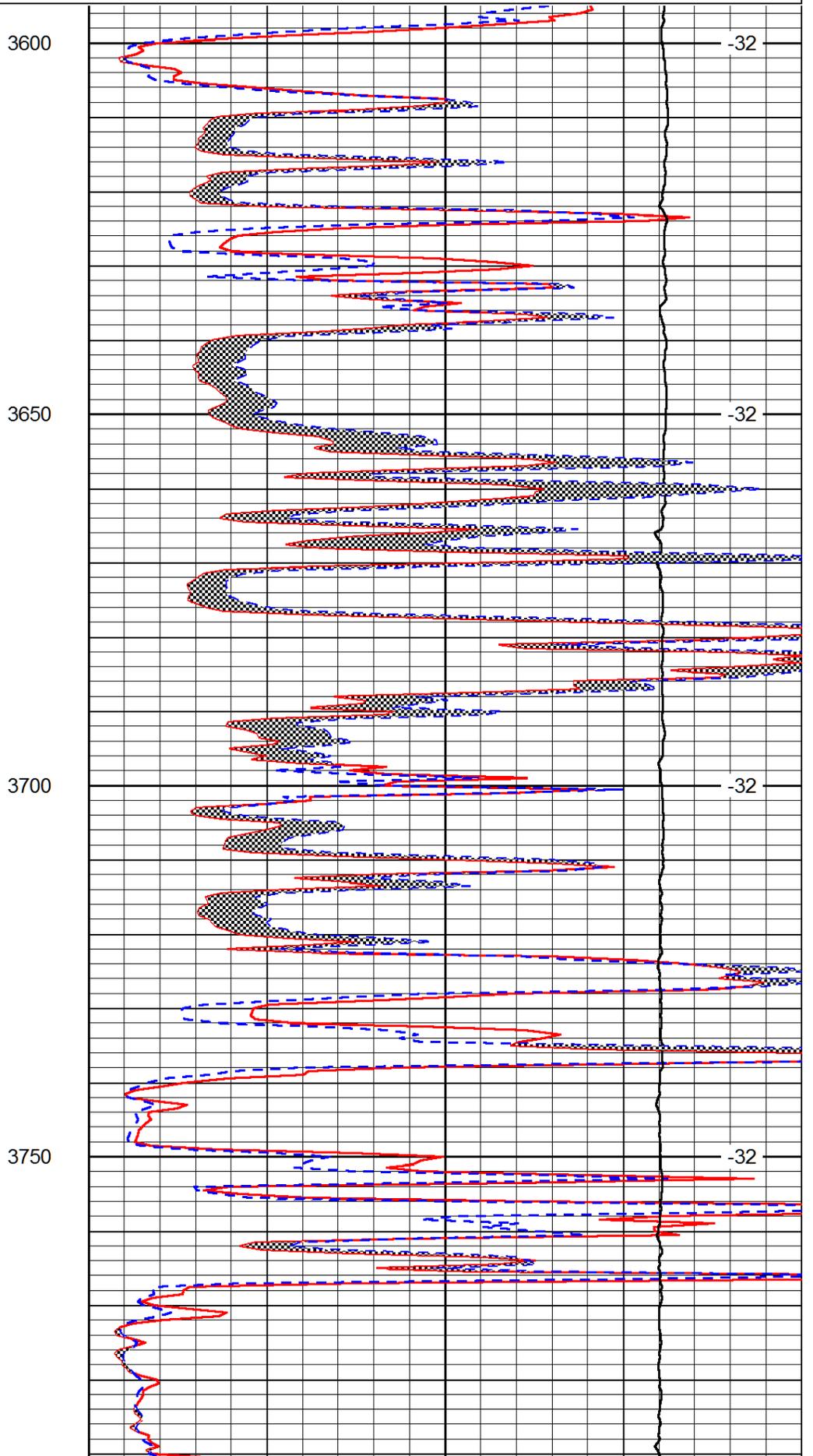
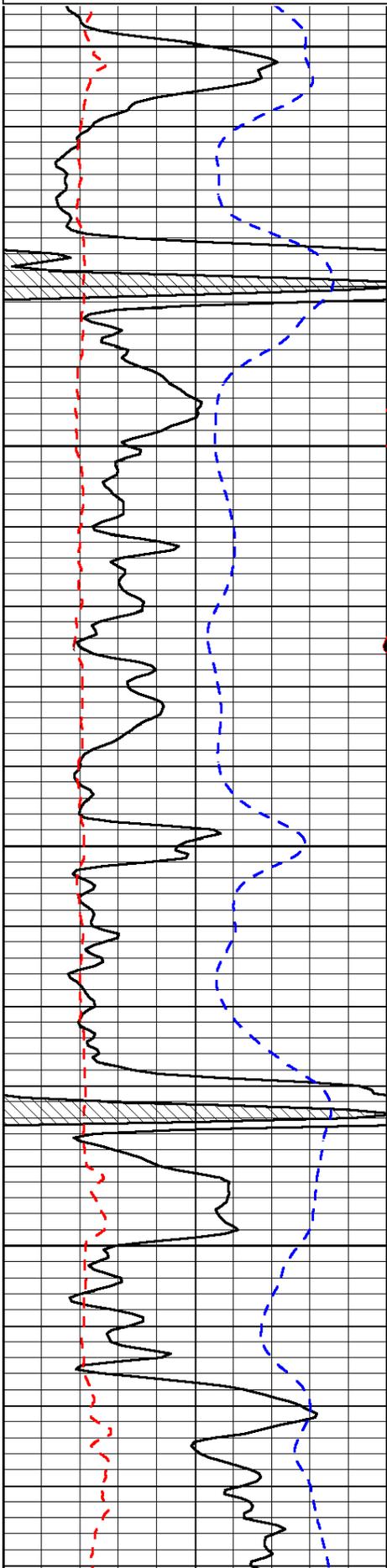
Thank you for using Log-Tech, Inc.
 (785) 625-3858
 Belpre, KS:
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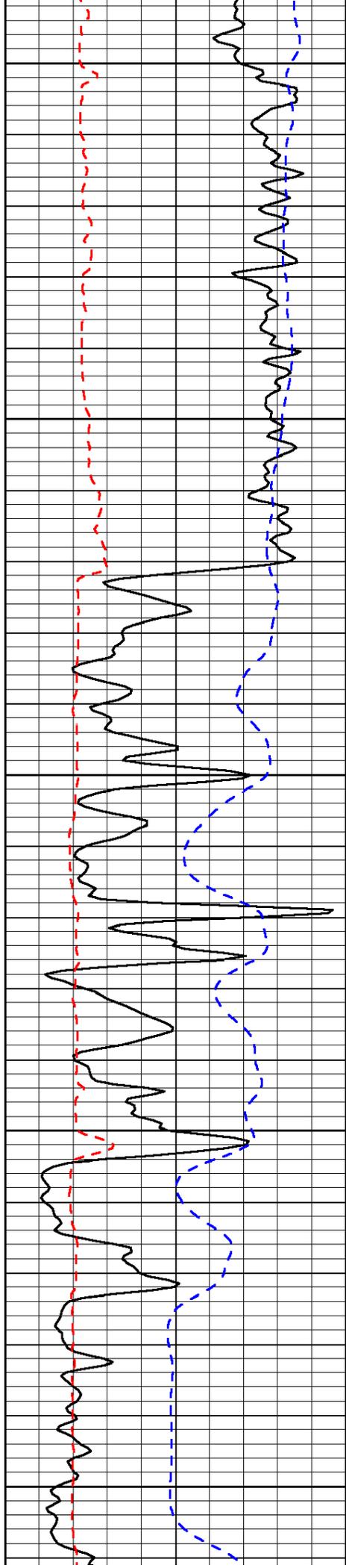
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 Dataset Creation: Fri Oct 24 11:51:18 2014
 Charted by: Depth in Feet scaled 1:240

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

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

LSPD





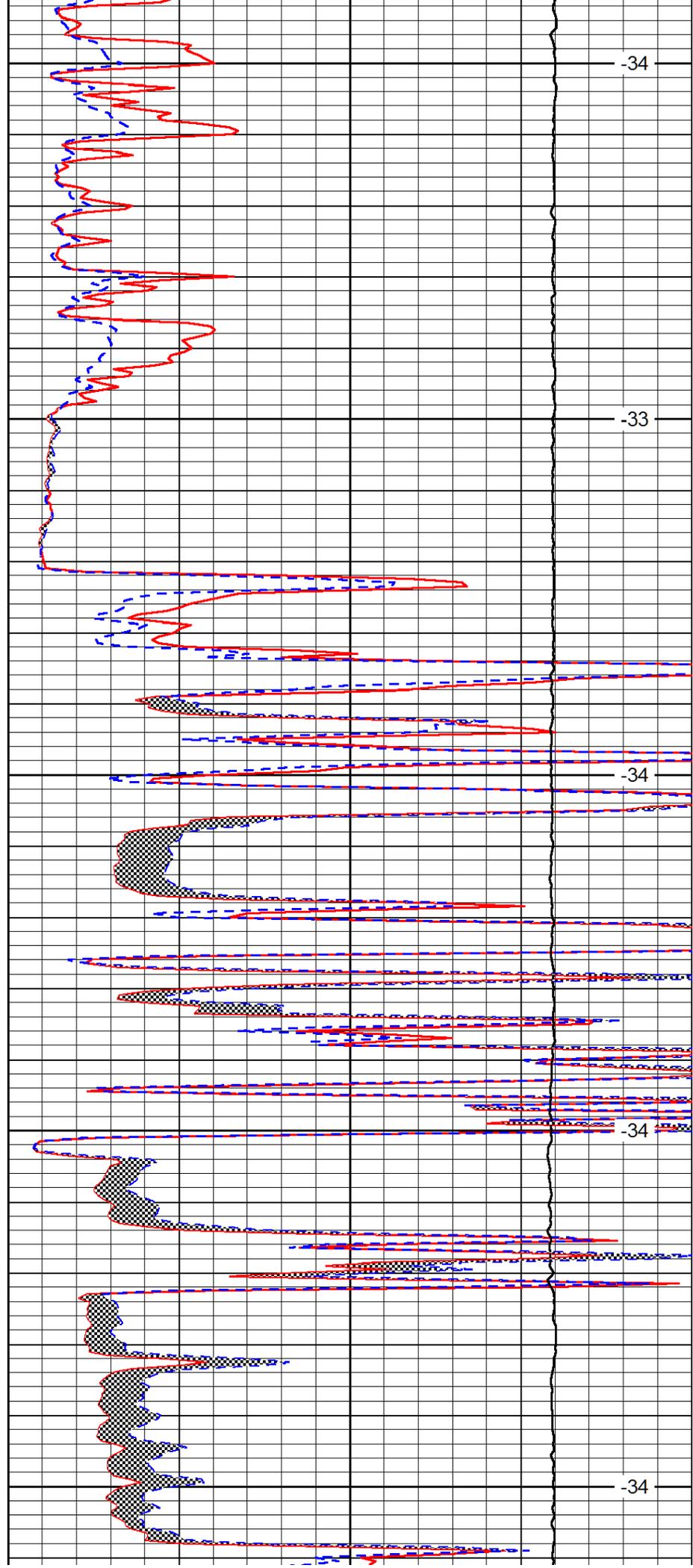
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3850

3900

3950

4000



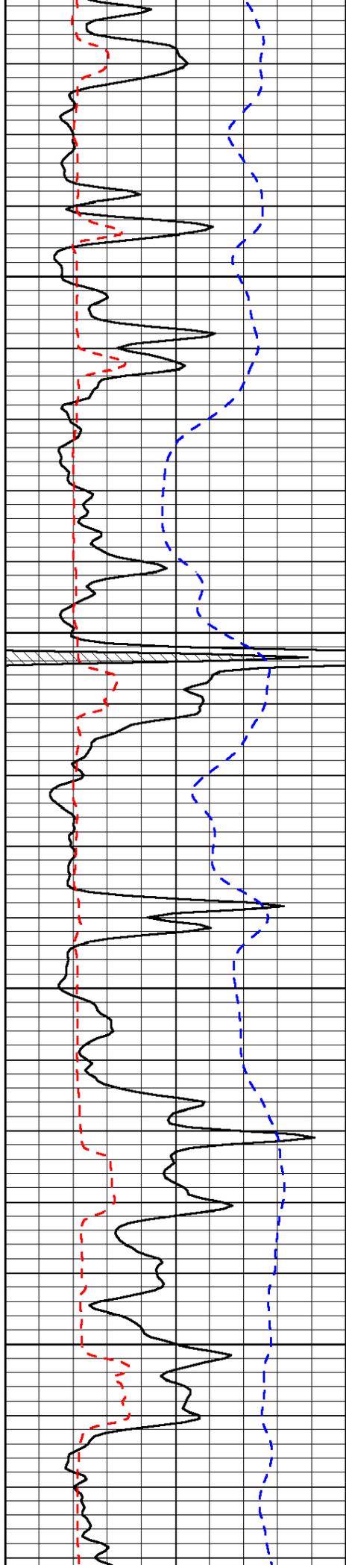
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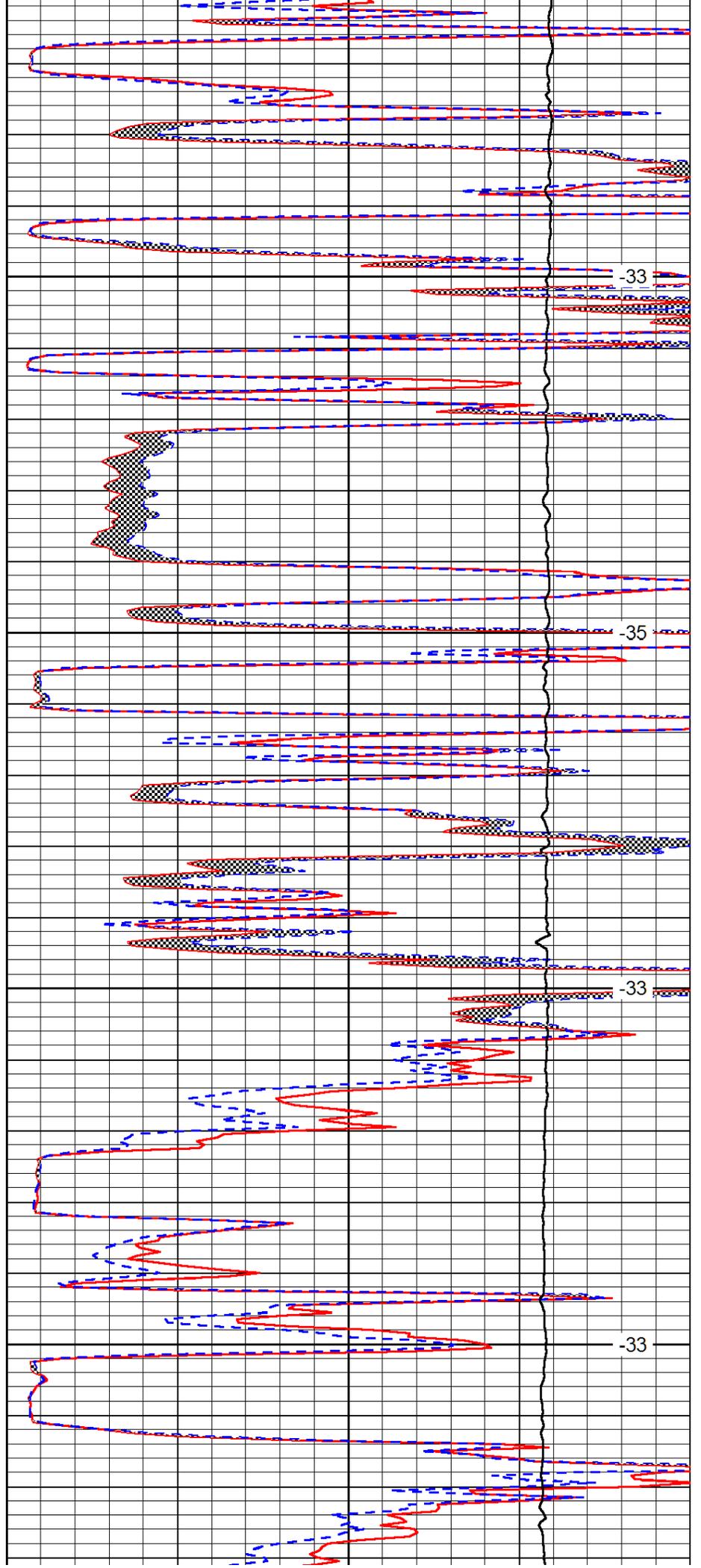


4050

4100

4150

4200

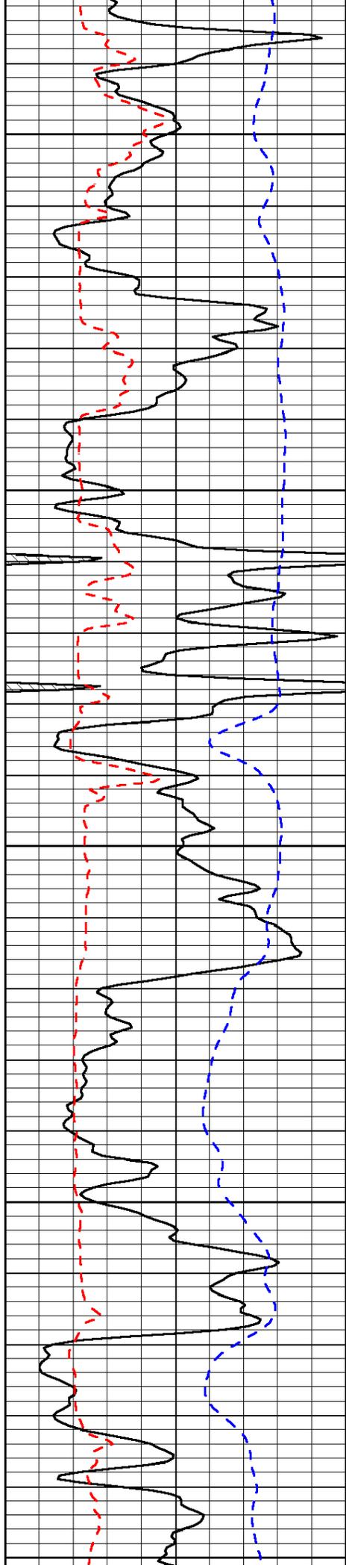


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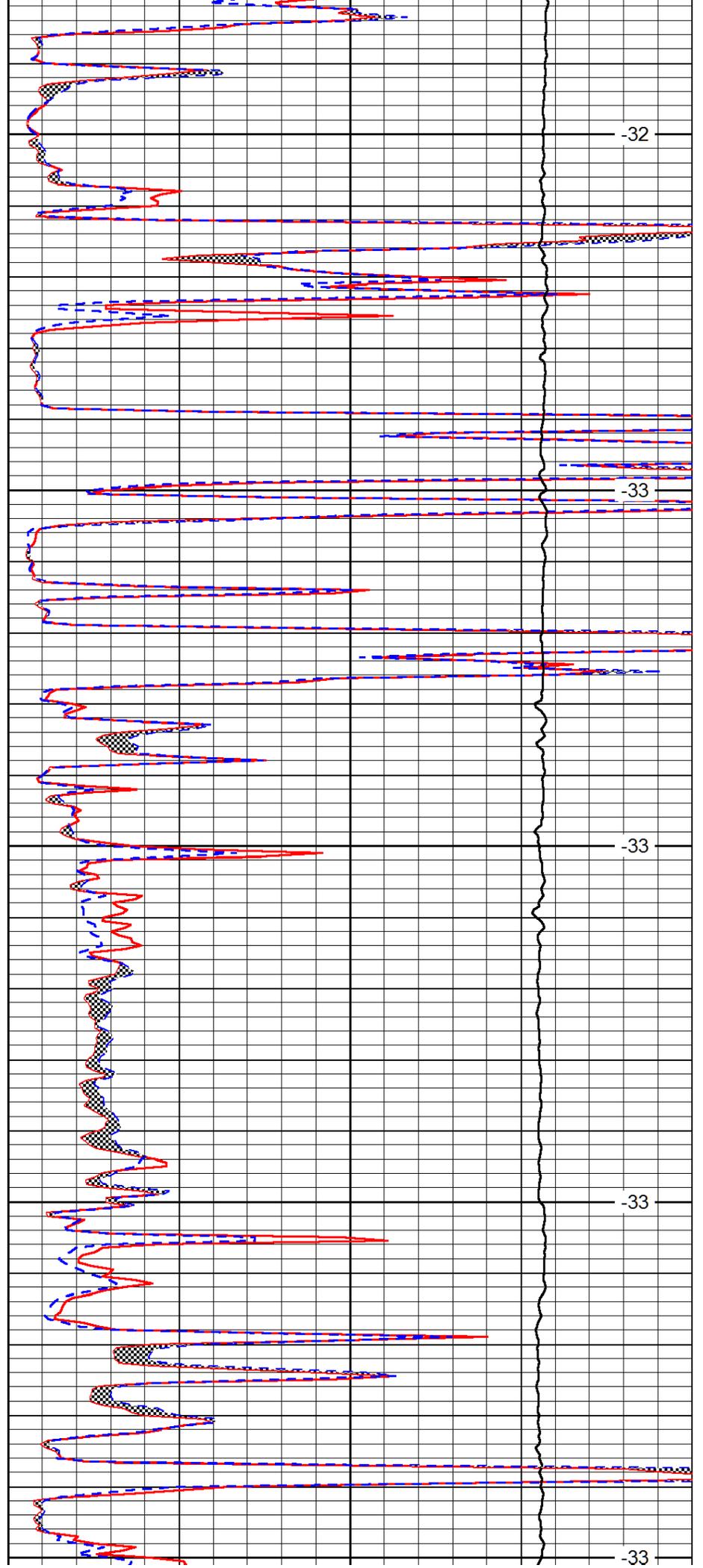
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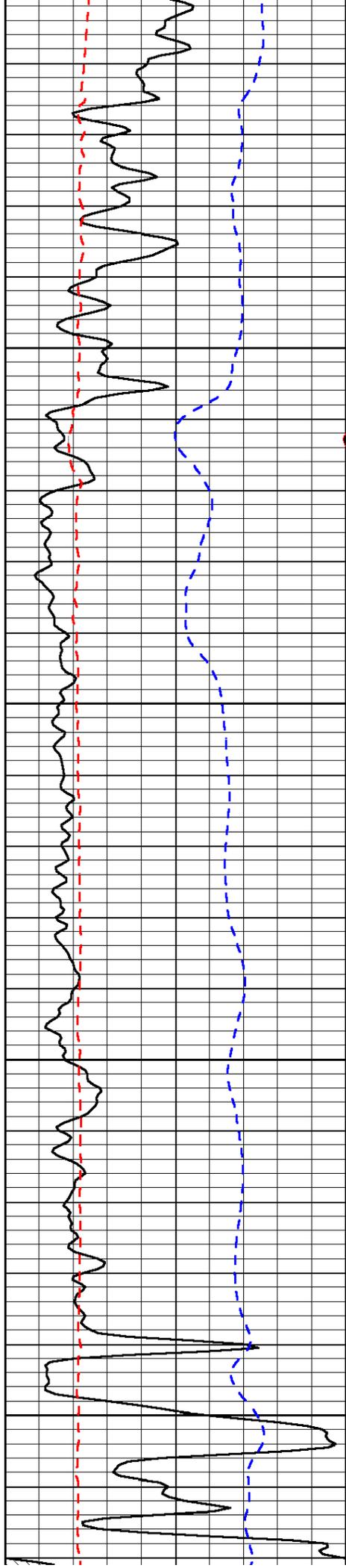
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4300
4350
4400
4450



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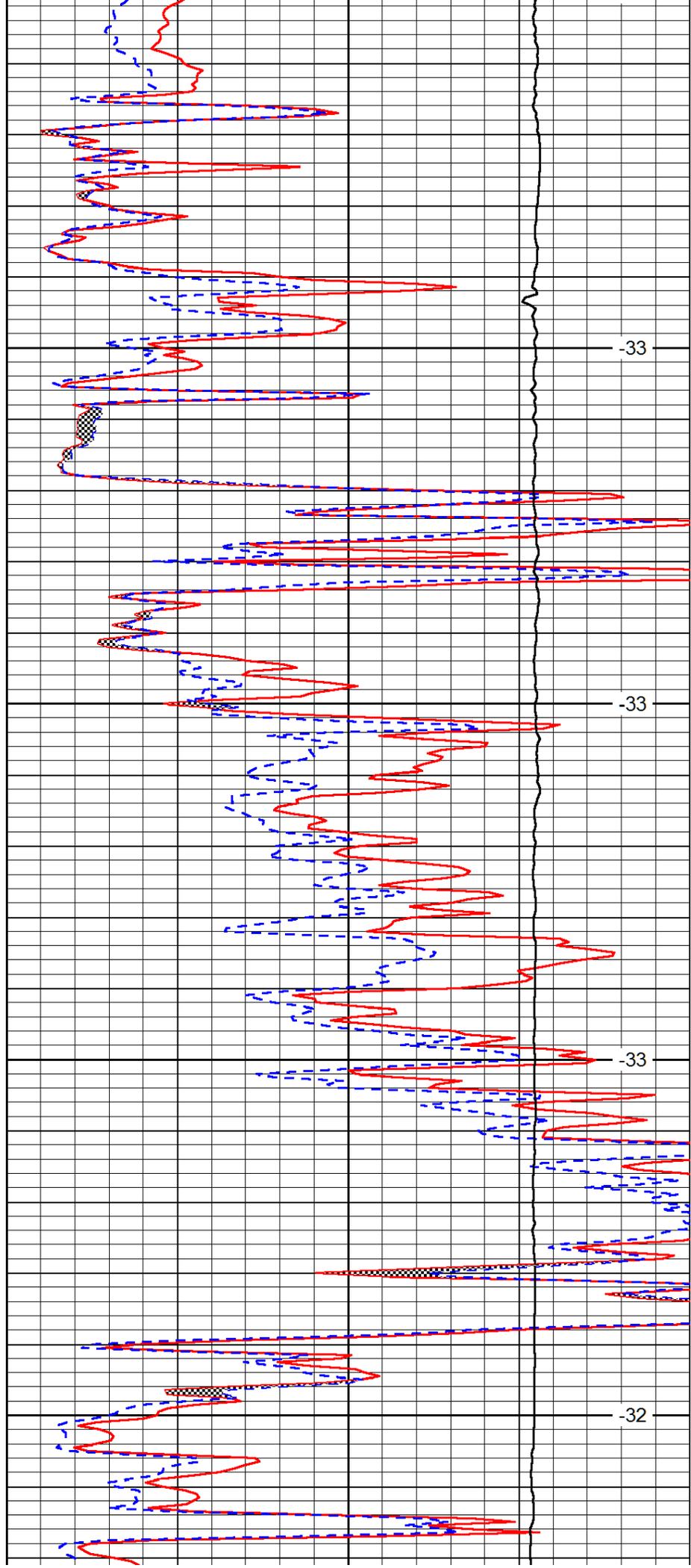


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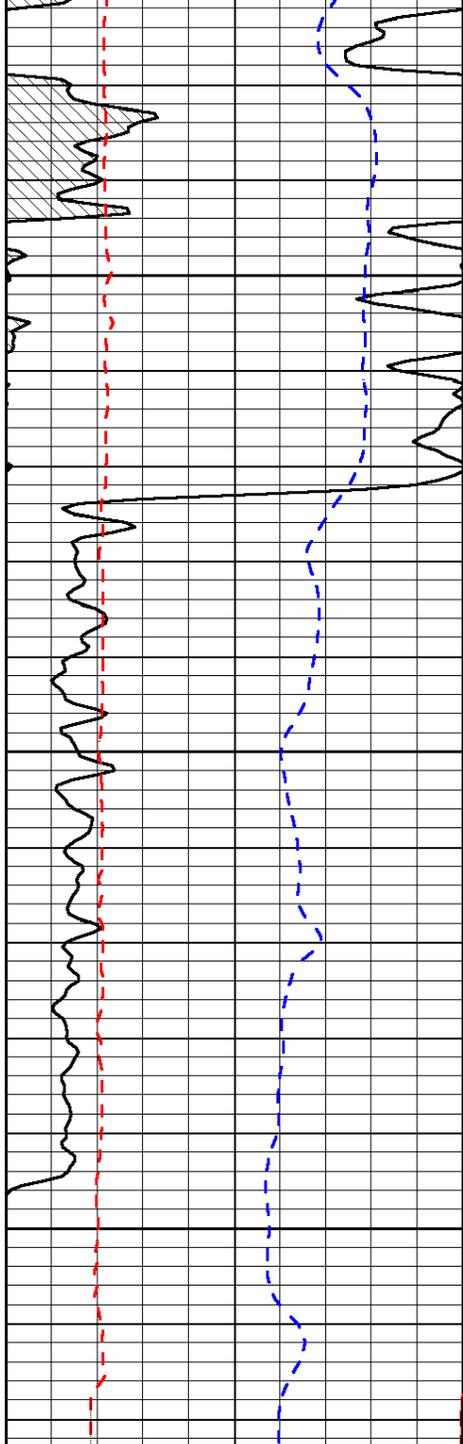


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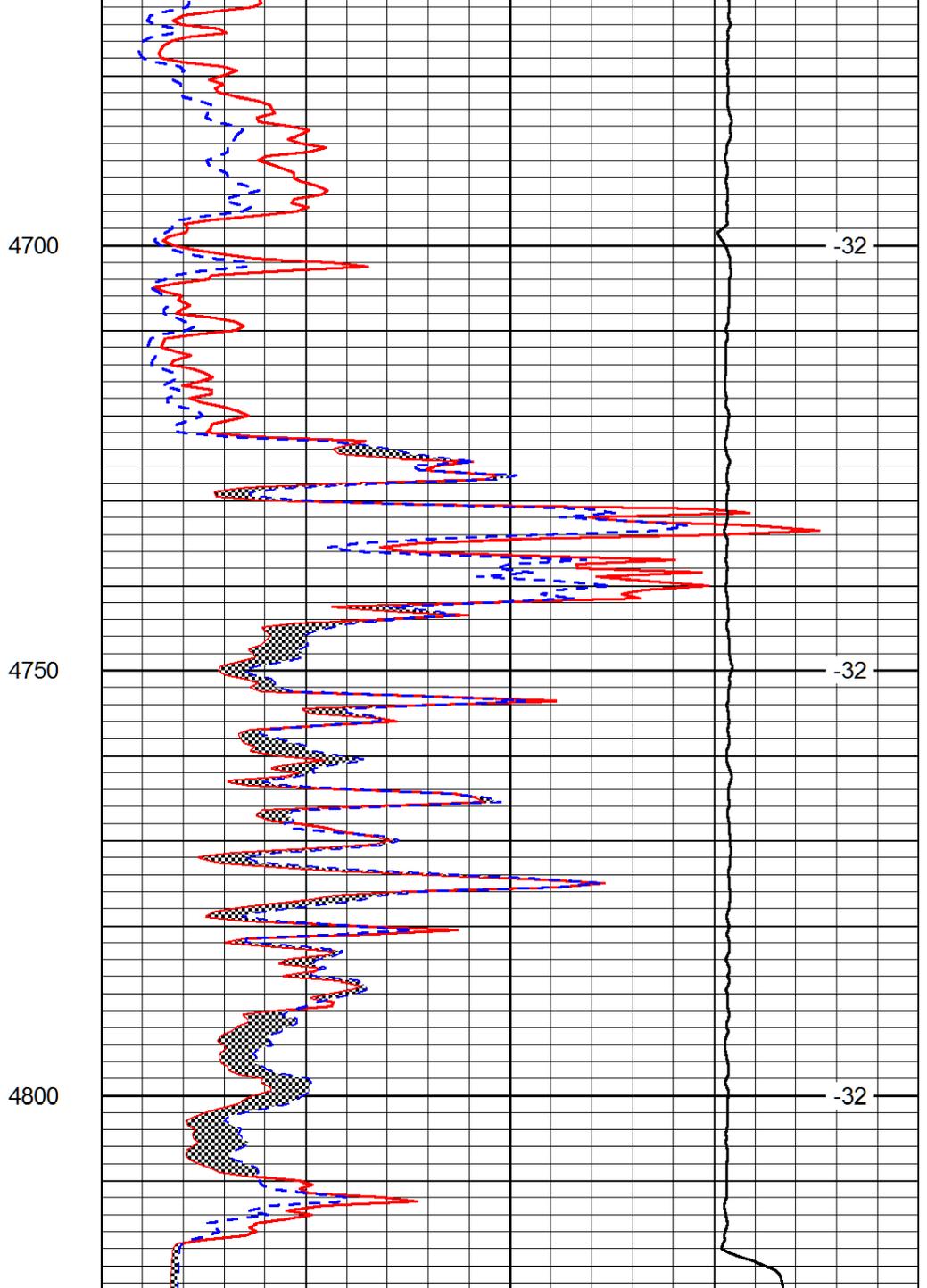
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