



Pioneer Energy Services

Microresistivity Log

API No.	15-101-22,402-00-00	
Company	Larson Engineering, Inc.	
Well	Thomas Paris No. 1 - 12	
Field	Hineman NW	
County	Lane	State
		Kansas
Location	2048' FSL & 2439' FEL	
Sec:	12	Twp: 19 S Rge: 29 W
Permanent Datum	Ground Level	Elevation 2796
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	K.B. 2803 D.F. 2796 G.L. 2796

Date	10/14/2012
Run Number	Two
Depth Driller	4676
Depth Logger	4676
Bottom Logged Interval	4675
Top Log Interval	3600
Casing Driller	8.625 @ 261
Casing Logger	259
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2000
Density / Viscosity	9.2 43
pH / Fluid Loss	10.0 8.8
Source of Sample	Flowline
Rm @ Meas. Temp	1.60 @ 72
Rmf @ Meas. Temp	1.20 @ 72
Rmc @ Meas. Temp	2.16 @ 72
Source of Rmf / Rmc	Charts
Rm @ BHT	.94 @ 123
Operating Rig Time	4 1/2 Hours
Max Rec. Temp. F	123
Equipment Number	108
Location	Hays
Recorded By	D. Martin
Witnessed By	Bob Lewellvn

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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.

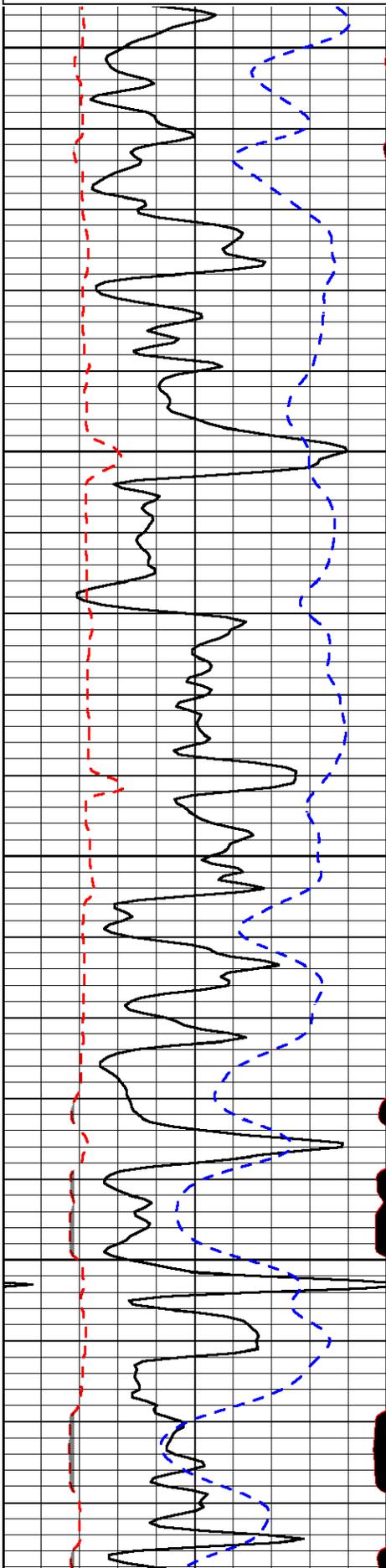
Comments

Thank you for using Log-Tech, Inc.
 (785) 625-3858
 Dighton, KS
 4 1/2 S, W Into

Database File: larhd.db
 Dataset Pathname: DIL/larstk
 Presentation Format: micro
 Dataset Creation: Sun Oct 14 14:18:56 2012
 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	0

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

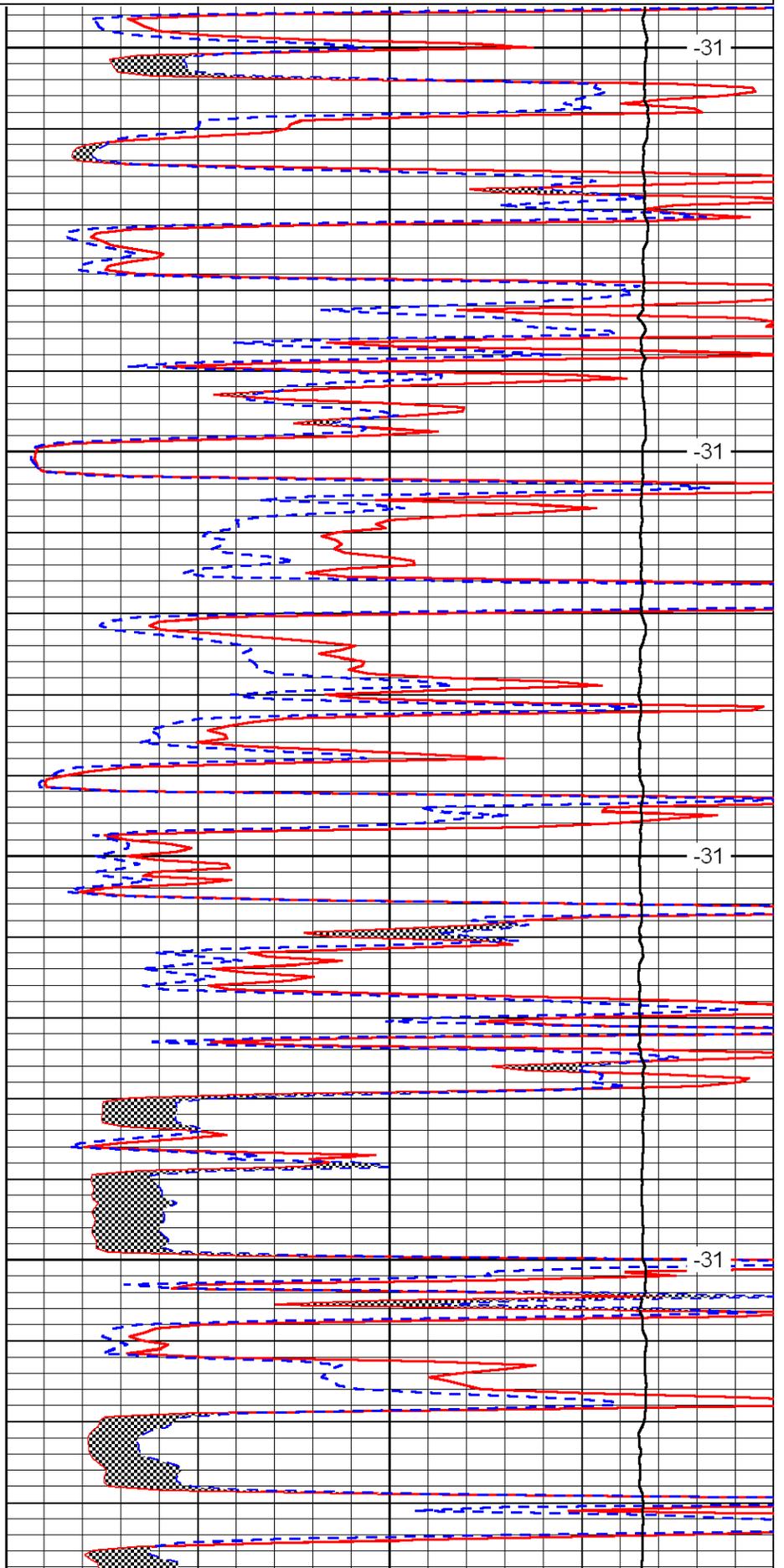


3600

3650

3700

3750

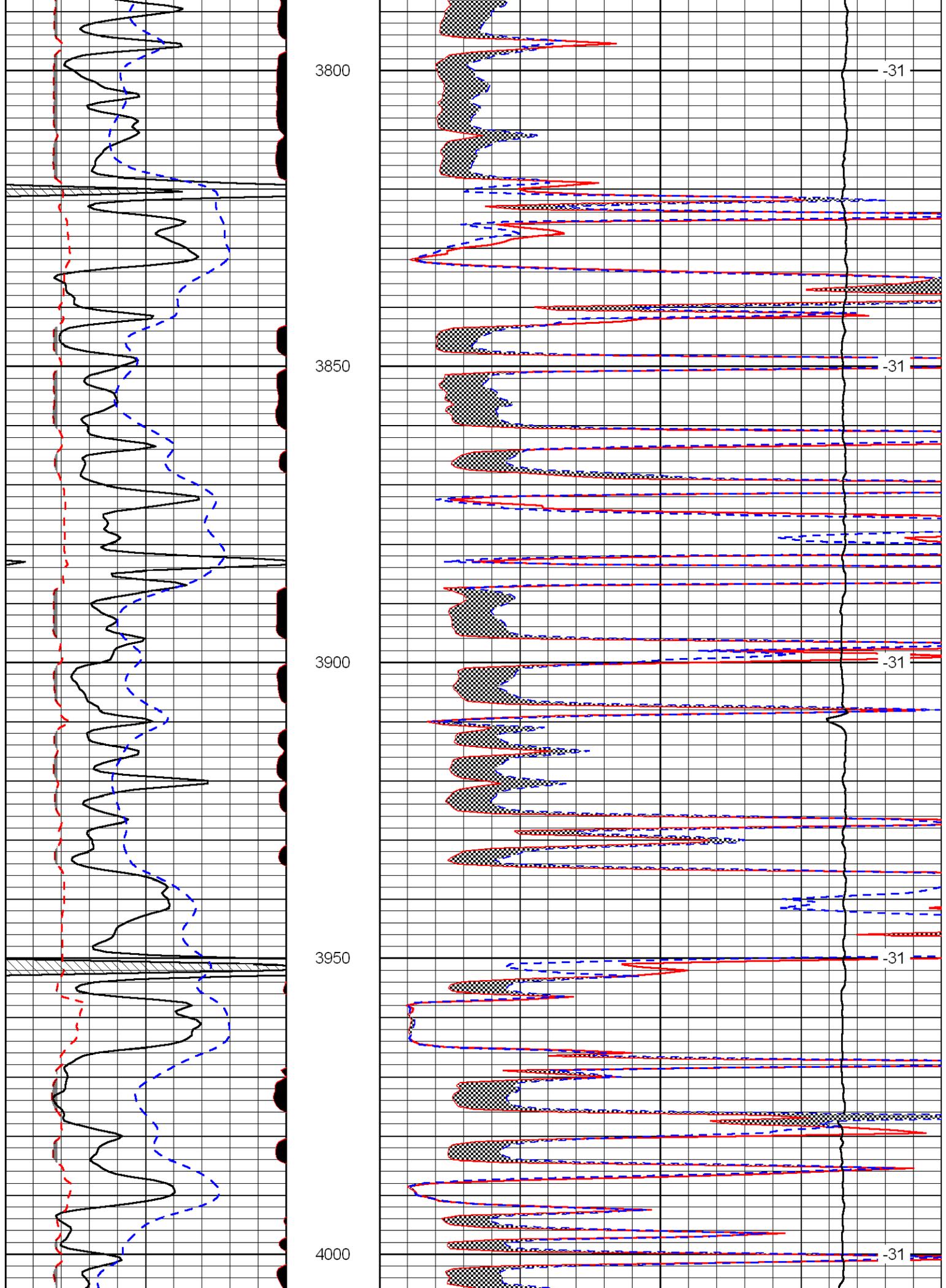


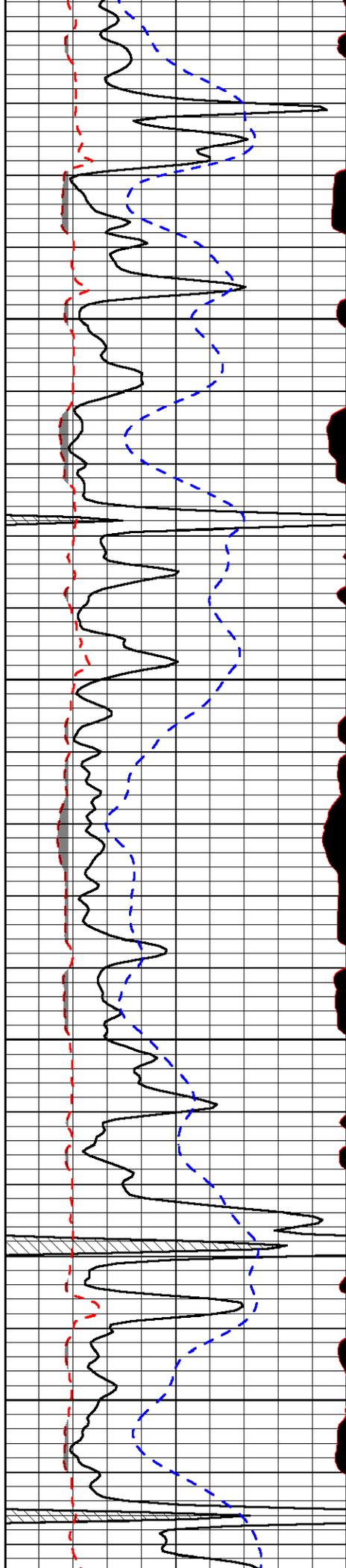
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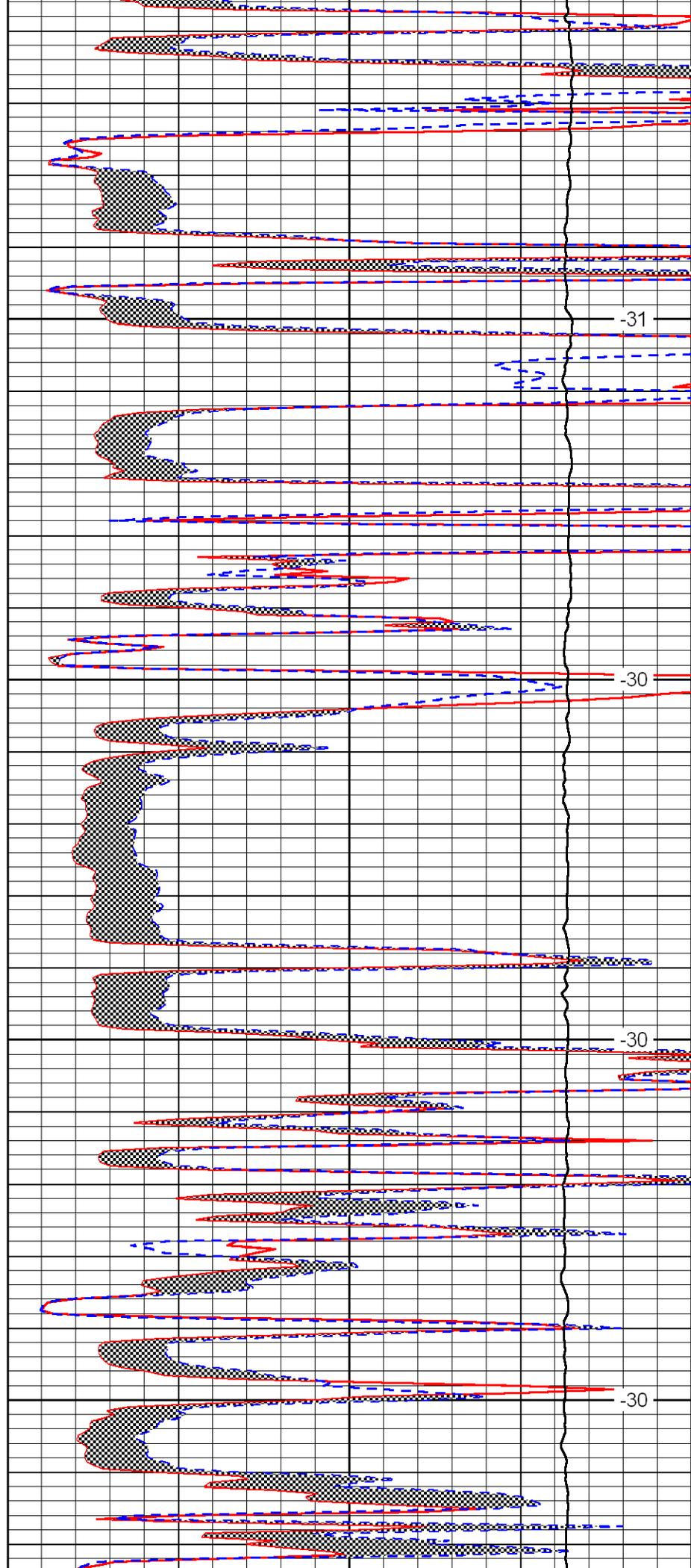


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4100

4150

4200

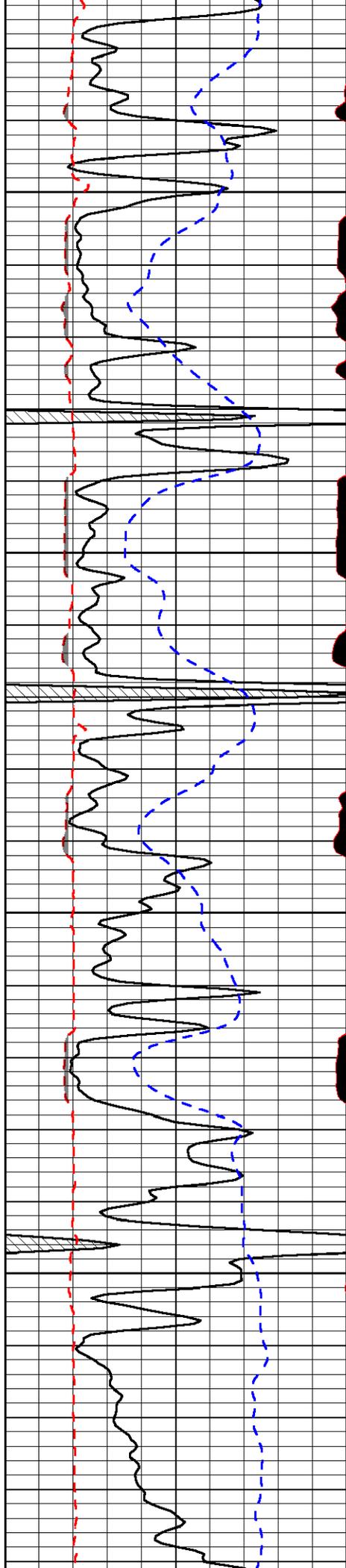


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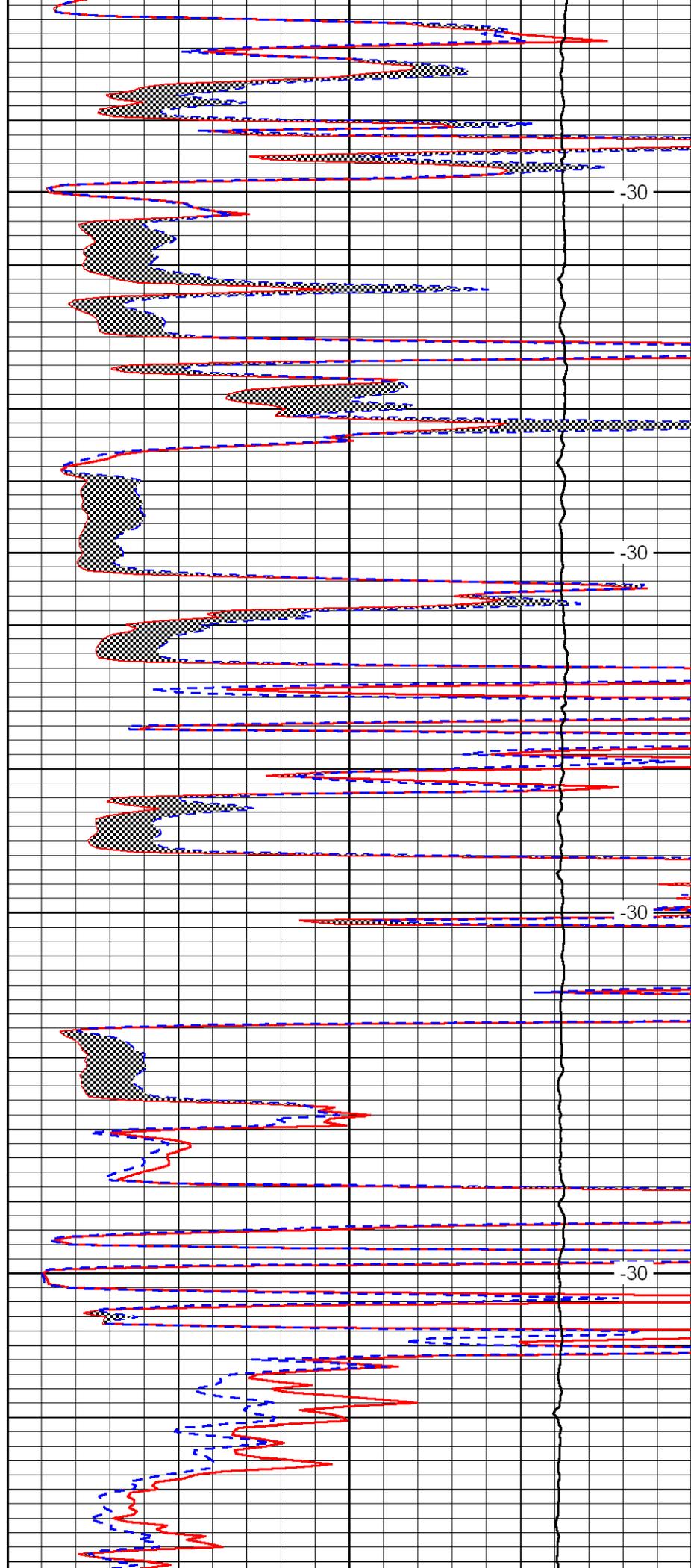


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4300

4350

4400

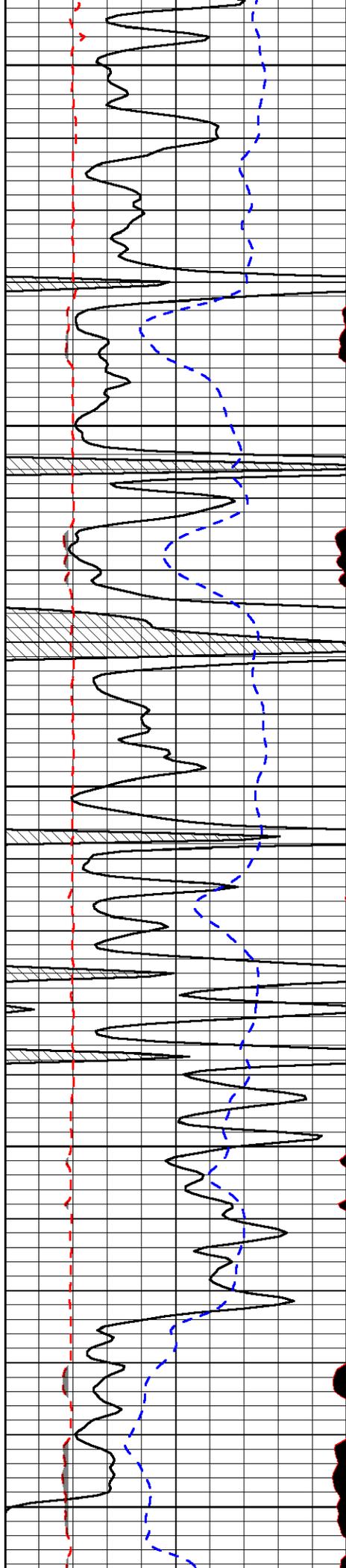


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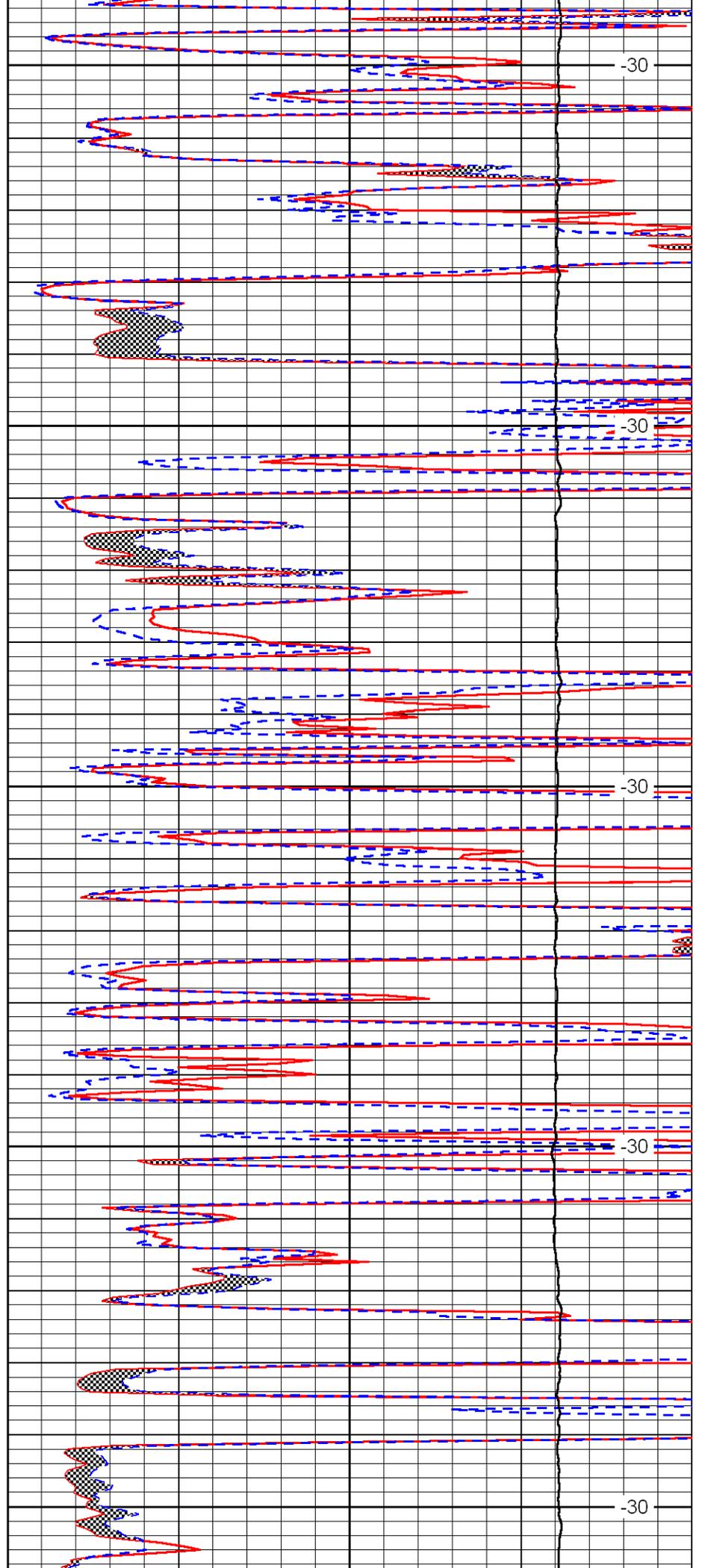
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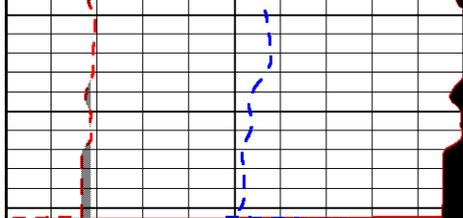
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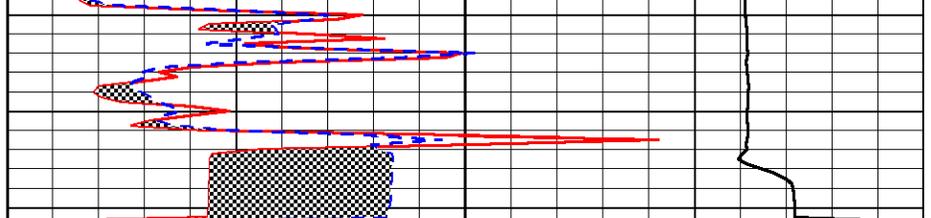
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