



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	15-101-22,249-00-00		
Company	Larson Operating Company		
Well	Harris No. 1-20		
Field	Cowdery		
County	Lane	State	Kansas
Location	2310' FSL & 1130' FWL		Other Services CNL/CDL DIL
Sec: 20	Twp: 18S	Rge: 30W	Elevation
Permanent Datum	Ground Level	Elevation 2897	K.B. 2904
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum	D.F. 2897
Drilling Measured From	Kelly Bushing		G.L. 2897
Date	08/08/2010		
Run Number	One		
Depth Driller	4675		
Depth Logger	4680		
Bottom Logged Interval	4679		
Top Log Interval	3600		
Casing Driller	8.625 @ 262		
Casing Logger	257		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	3.000		
Density / Viscosity	9.3 68		
pH / Fluid Loss	11.5 7.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.9 @ 80		
Rmf @ Meas. Temp	.67 @ 80		
Rmc @ Meas. Temp	1.21 @ 80		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.58 @ 125		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	125		
Equipment Number	17		
Location	Hays		
Recorded By	Jason Wellbrock		
Witnessed By	Vern Schrag		

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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.

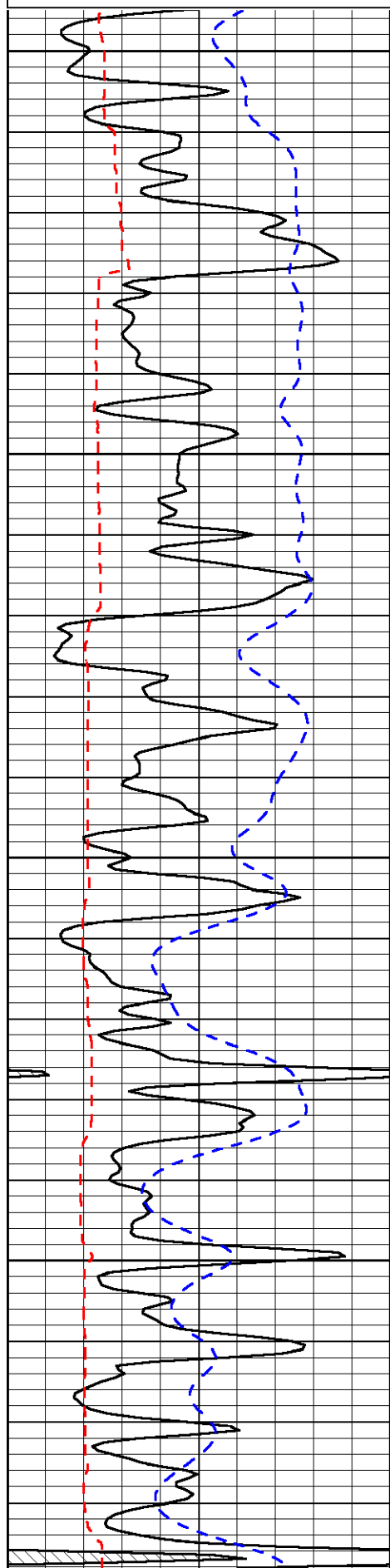
Comments

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

Dighton 10W to Arapahoe Rd, 1/2S, E Into

Database File: larshd.db
Dataset Pathname: dil/lar2in
Presentation Format: micro
Dataset Creation: Sun Aug 08 08:54:41 2010
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



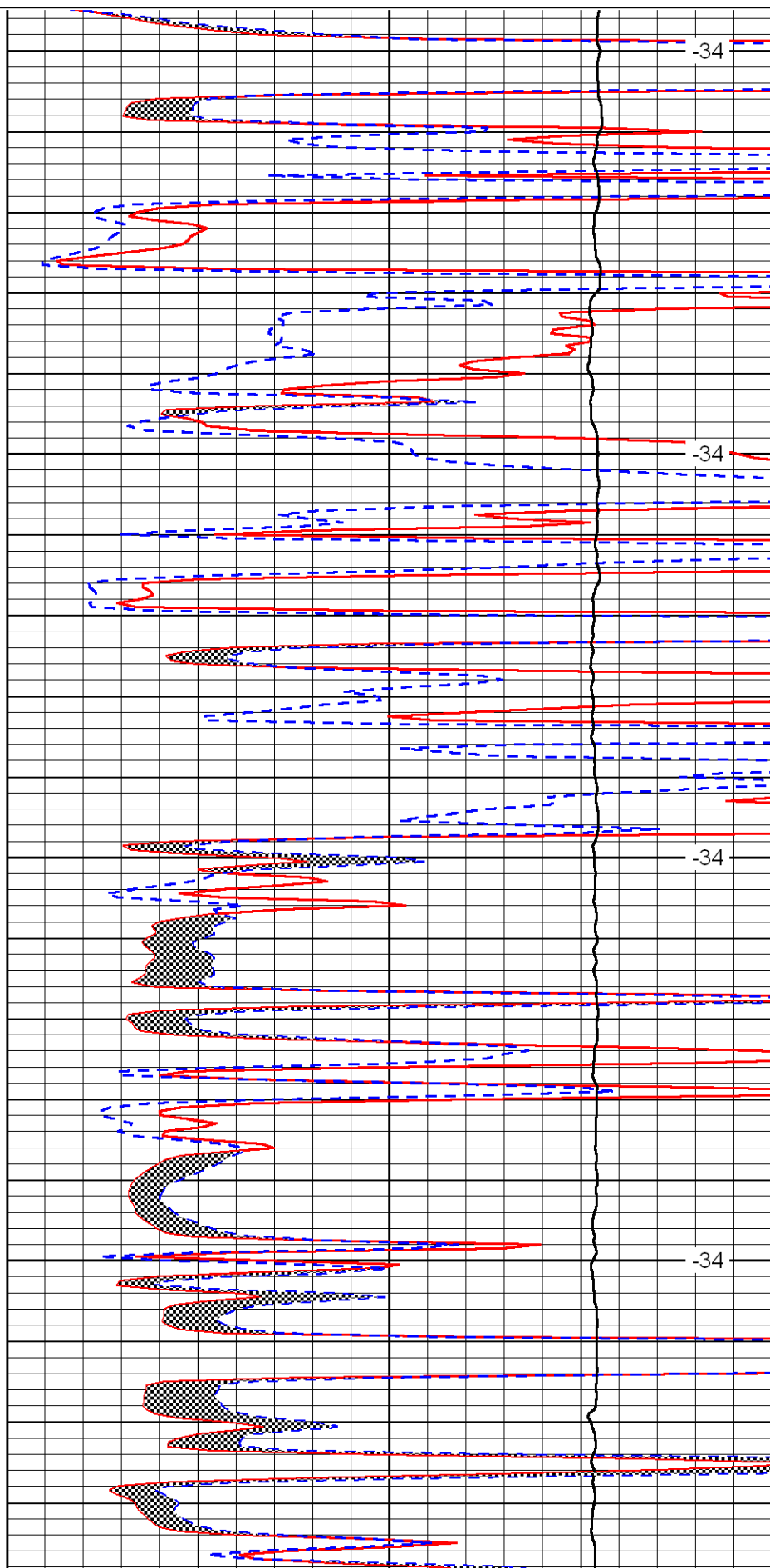
3600

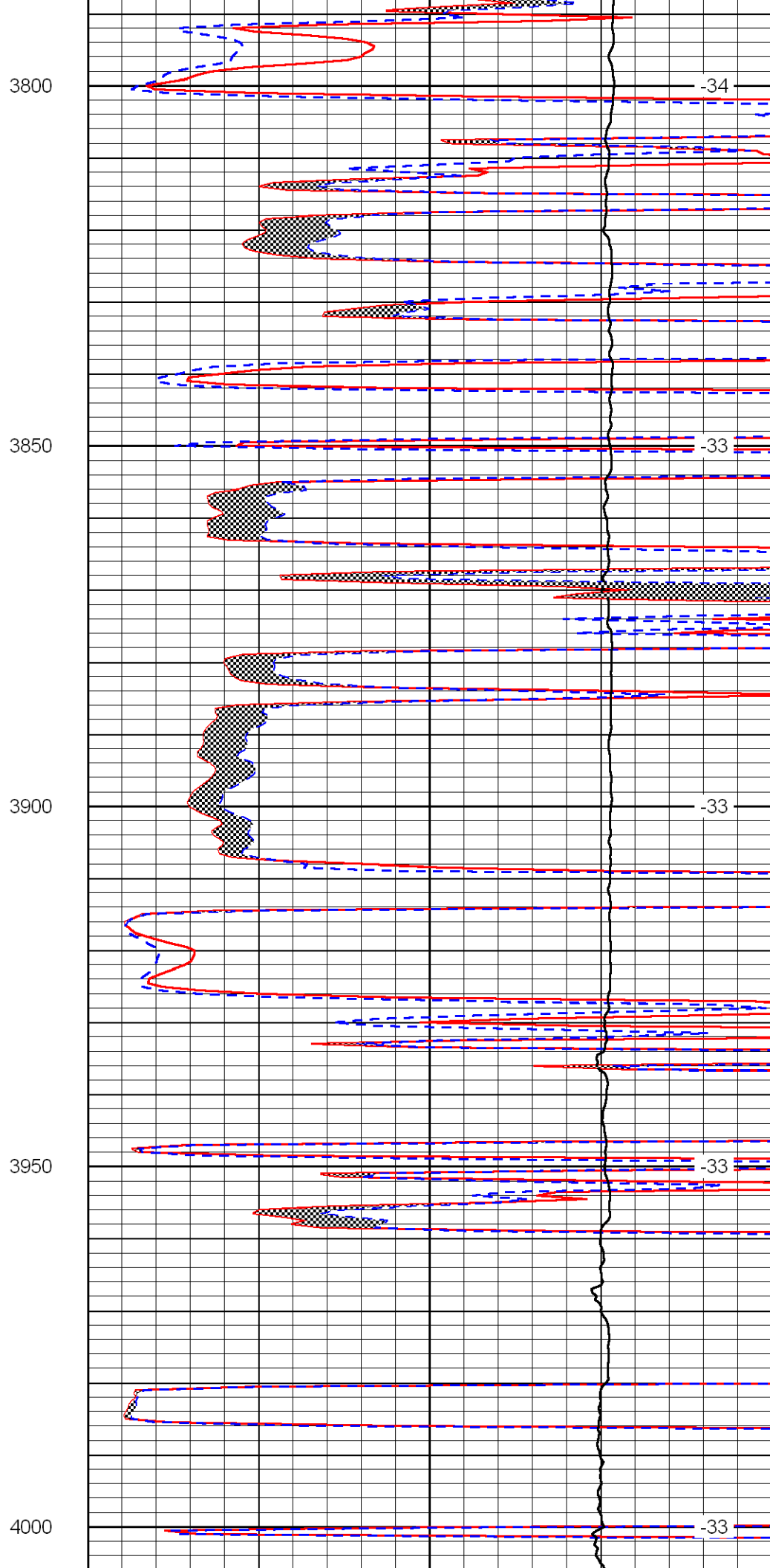
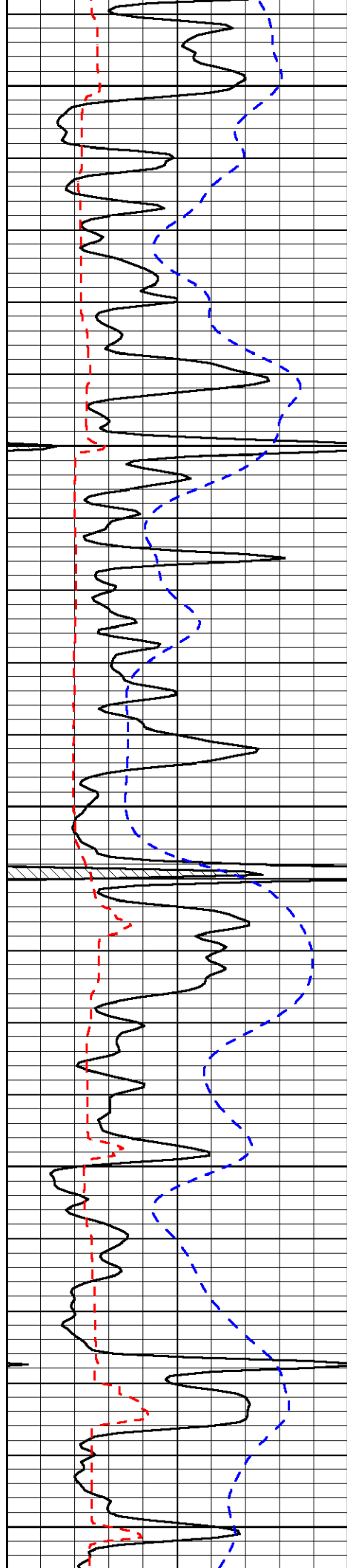
3650

3700

3750

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





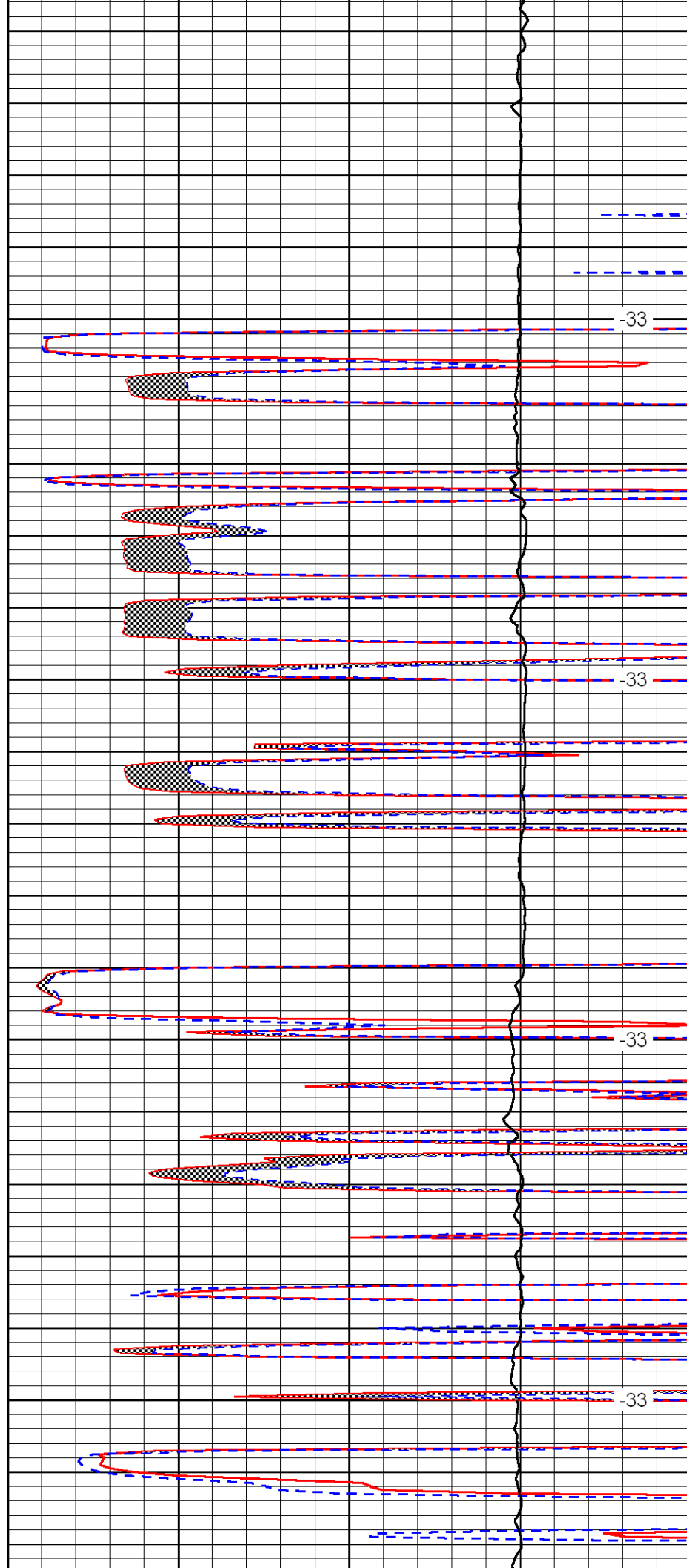


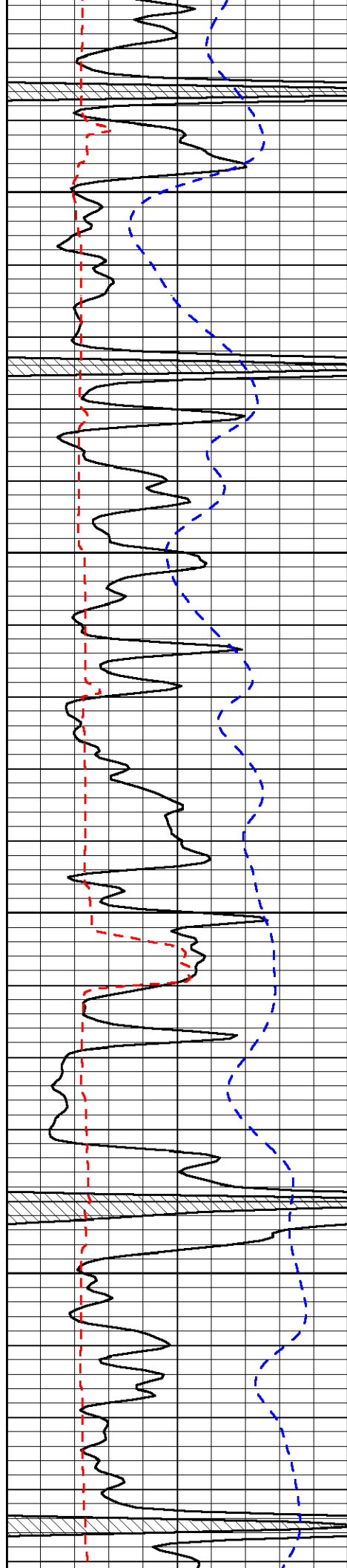
4050

4100

4150

4200



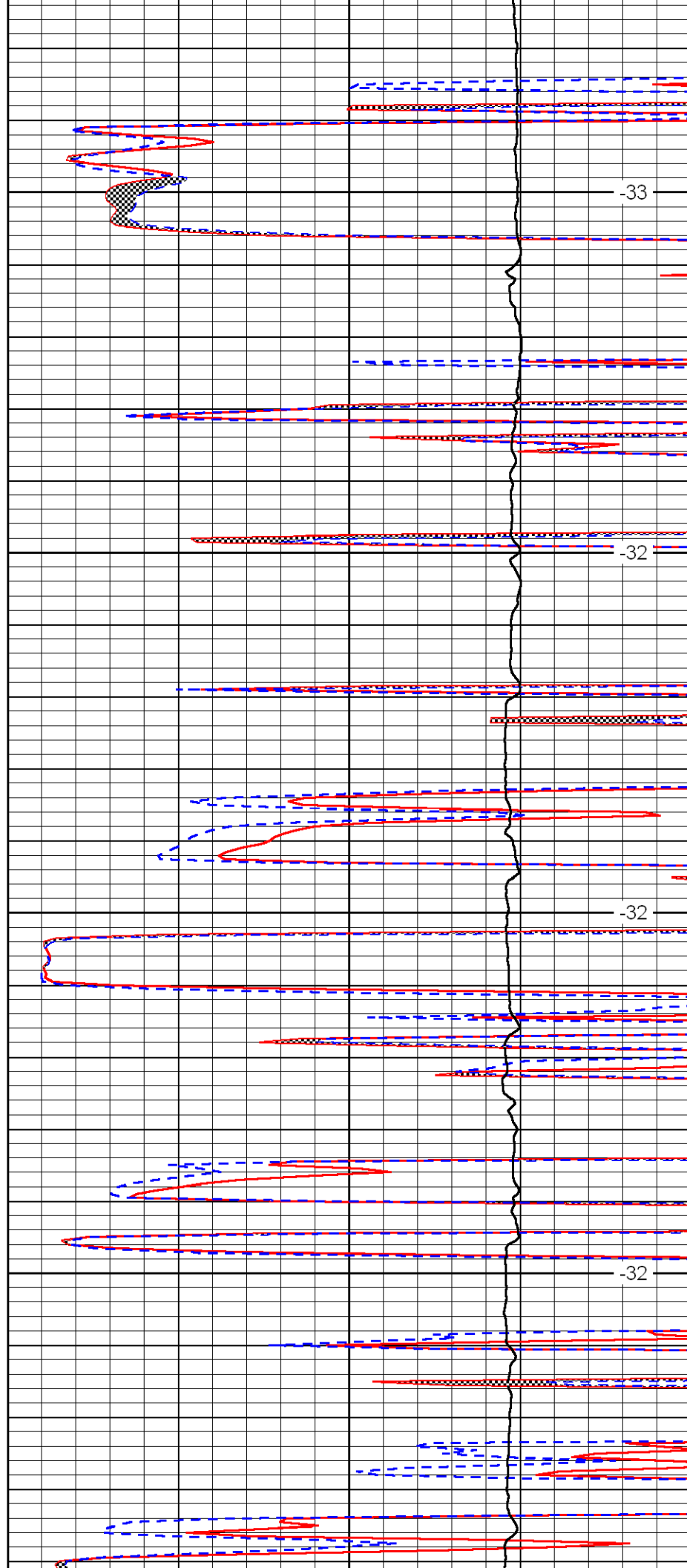


4250

4300

4350

4400

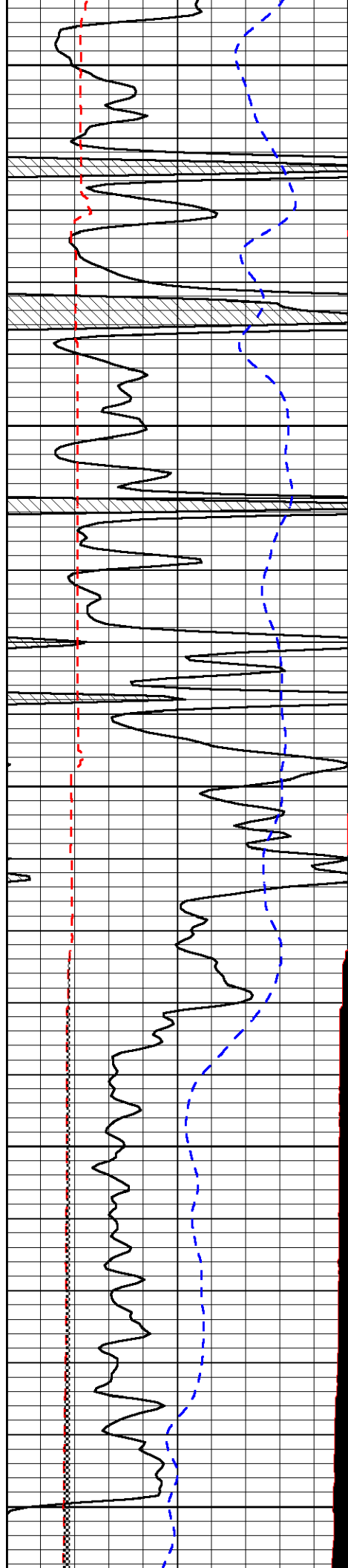


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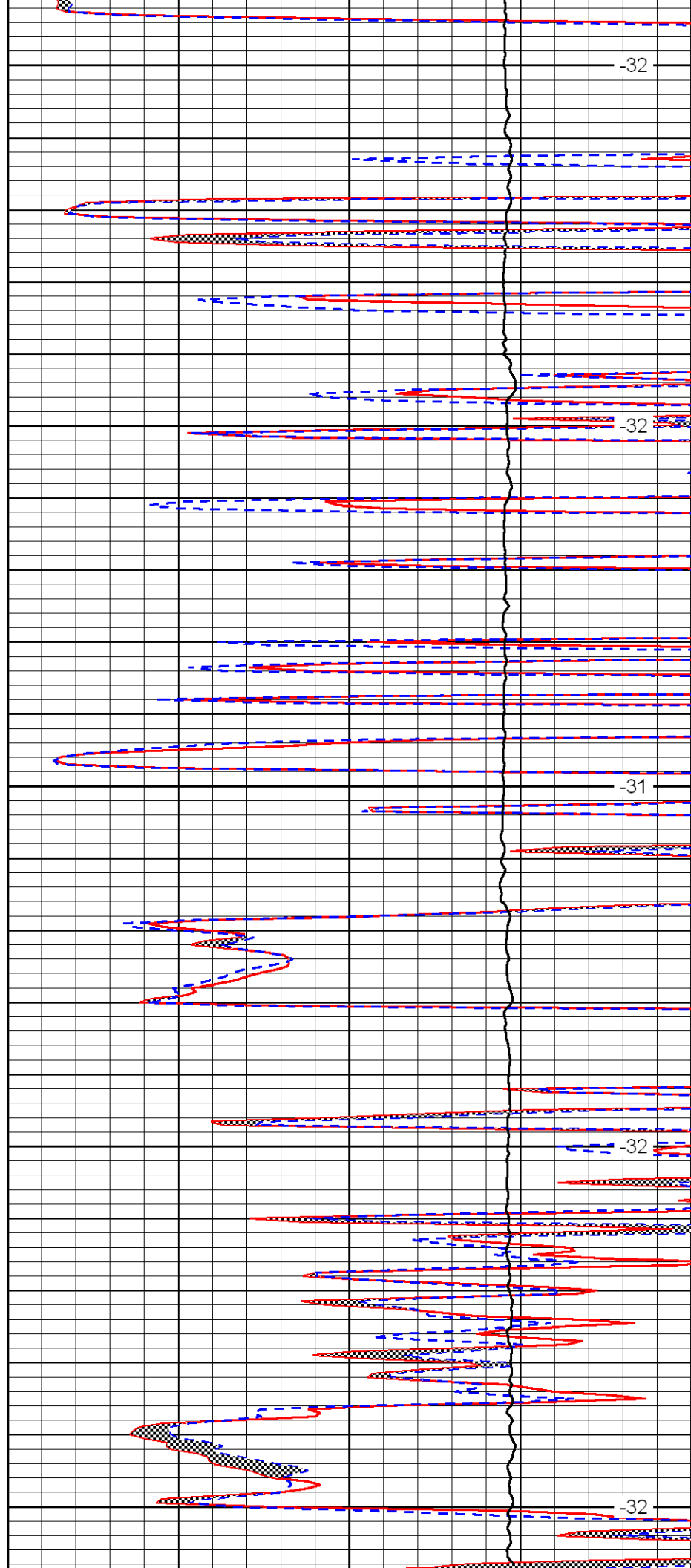
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4500

4550

4600

4650



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