



Pioneer Energy Services

Microresistivity Log

API No.	15-041-20138-00-00		
Company	Chisholm Partners II, LLC		
Well	Wolf # 1-21		
Field	Unknown		
County	Dickinson	State	Kansas
Location	1980' FSL & 660' FWL		
Sec: 21	Twp: 11 S	Rge: 1 E	
Permanent Datum	Ground Level	Elevation	1309
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
		Other Services	CNL/CDL DIL/BHCS
		Elevation	K.B. 1319 D.F. 1309 G.L. 1309

Date	02-16-2013	
Run Number	Two	
Depth Driller	3390	
Depth Logger	3391	
Bottom Logged Interval	3390	
Top Log Interval	1700	
Casing Driller	8.625 @ 224	
Casing Logger	222	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	500	
Density / Viscosity	9.3	89
pH / Fluid Loss	9.5	6.4
Source of Sample	Flowline	
Rm @ Meas. Temp	0.12 @ 36	
Rmf @ Meas. Temp	0.93 @ 36	
Rmc @ Meas. Temp	1.68 @ 36	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.40 @ 112	
Operating Rig Time	5 Hours	
Max Rec. Temp. F	112	
Equipment Number	91	
Location	Hays	
Recorded By	D. Schmidt	
Witnessed By	Justin Carter	

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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

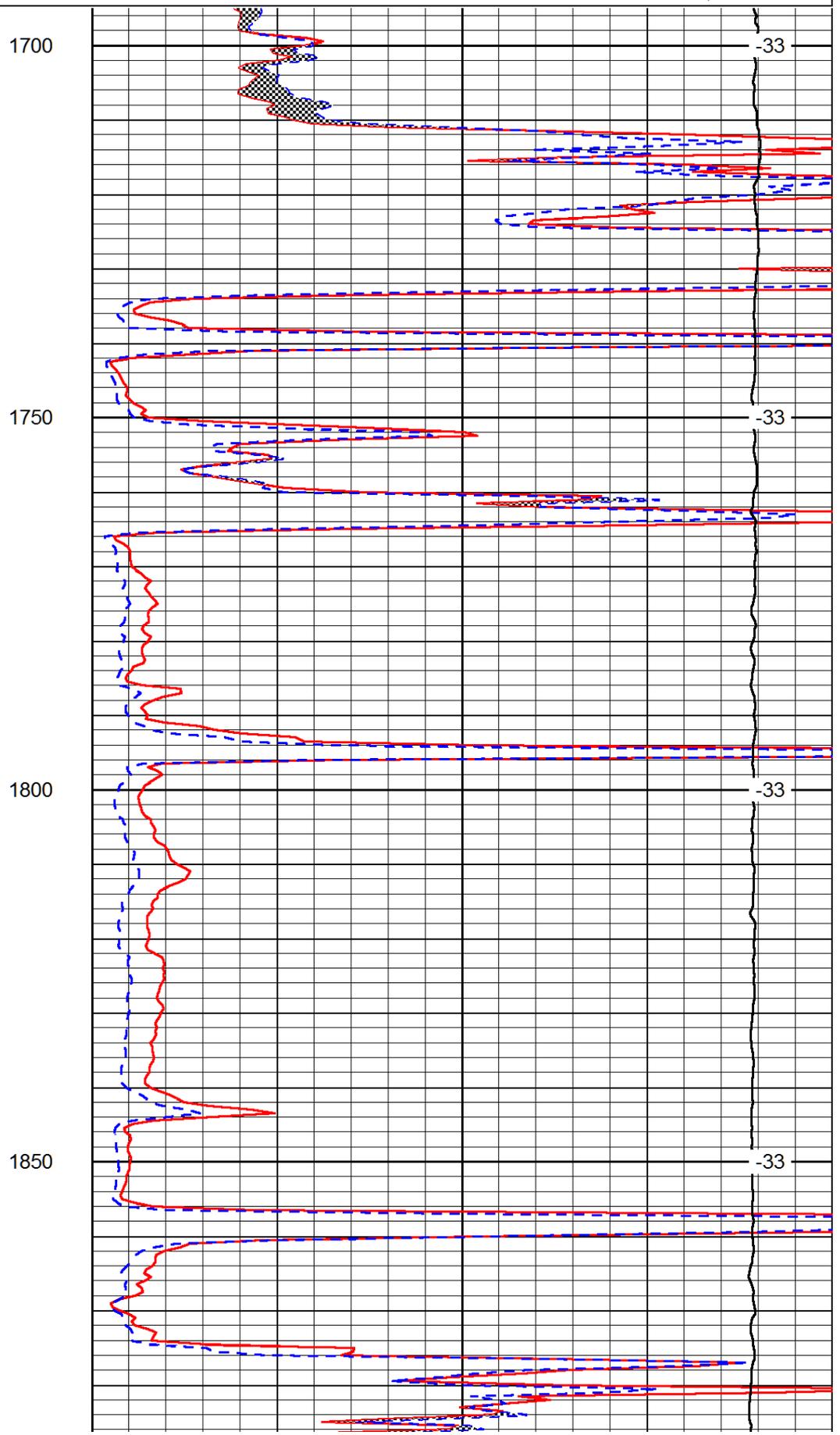
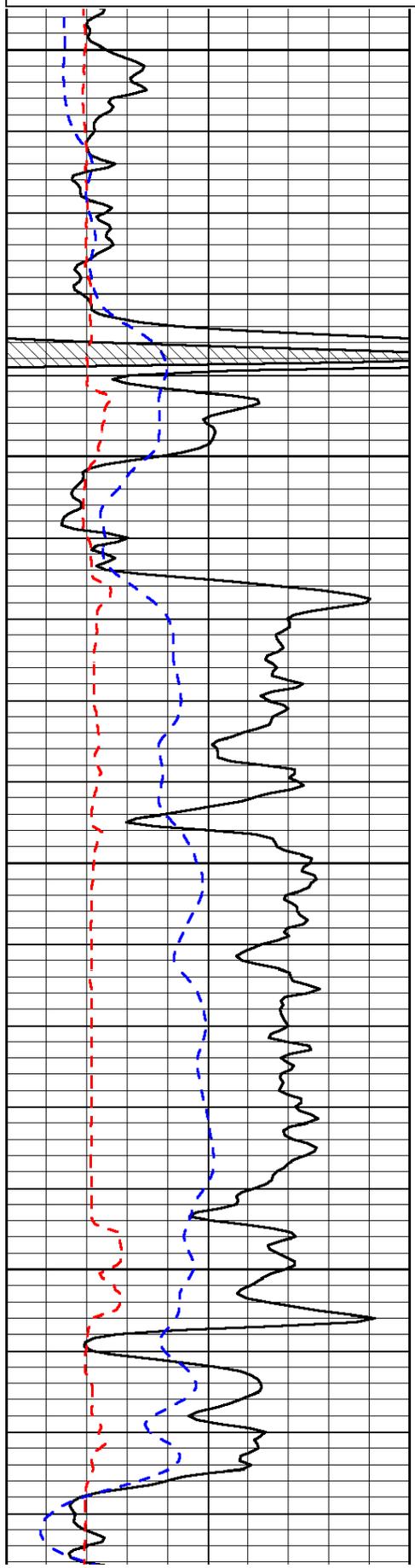
Thank you for using Log-Tech, Inc.
 (785) 625-3858
 Solomon,
 7 North to Hwy 18, 2 East to Camp Rd,
 3 1/4 North,
 East into

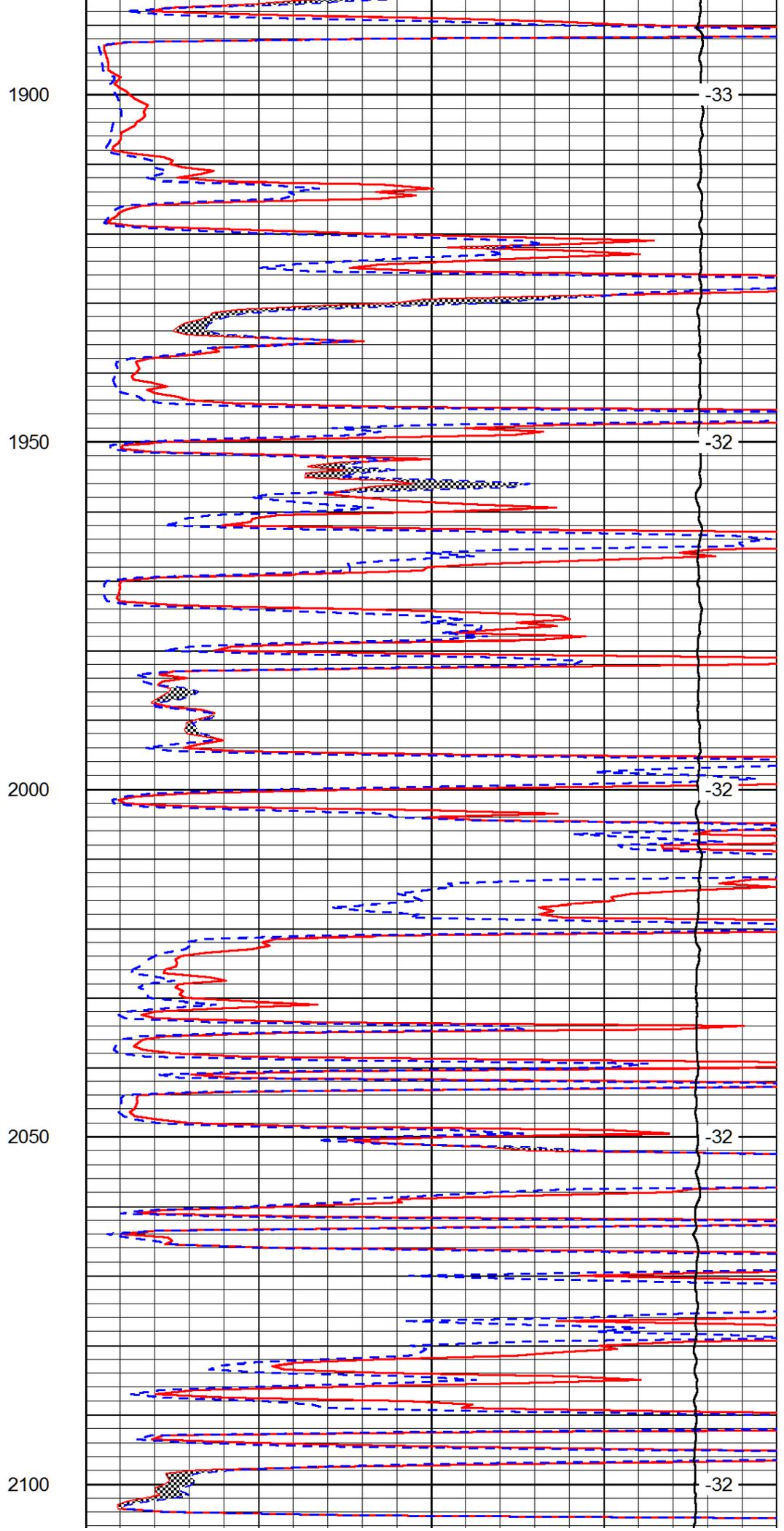
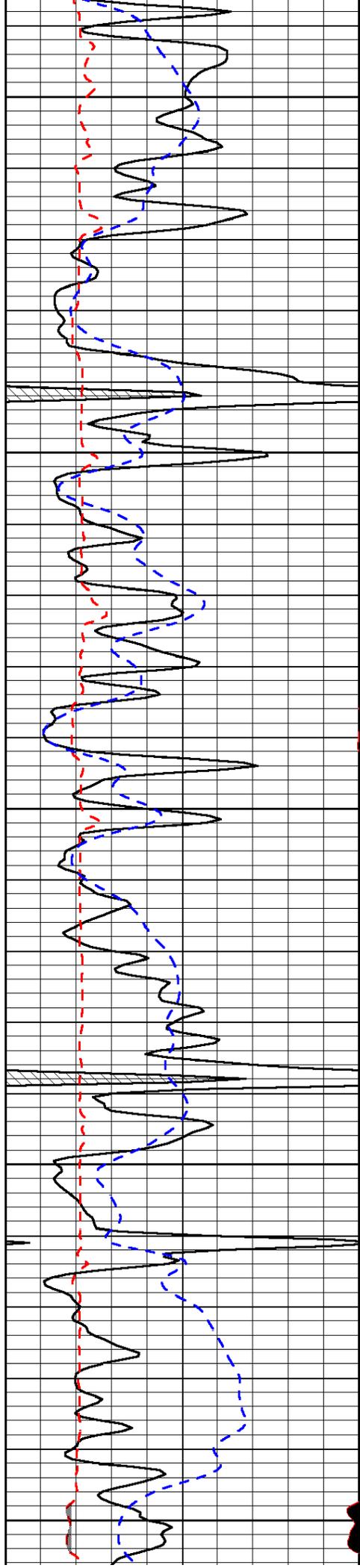
Database File: chisholm021613hd.db
 Dataset Pathname: dil/chstack
 Presentation Format: micro
 Dataset Creation: Sat Feb 16 14:20:43 2013
 Charted by: Depth in Feet scaled 1:240

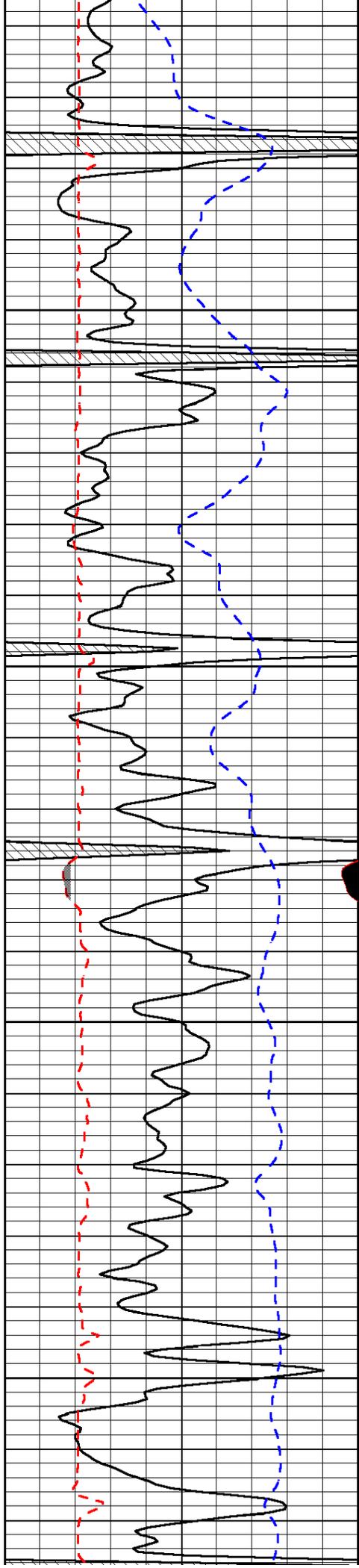
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)





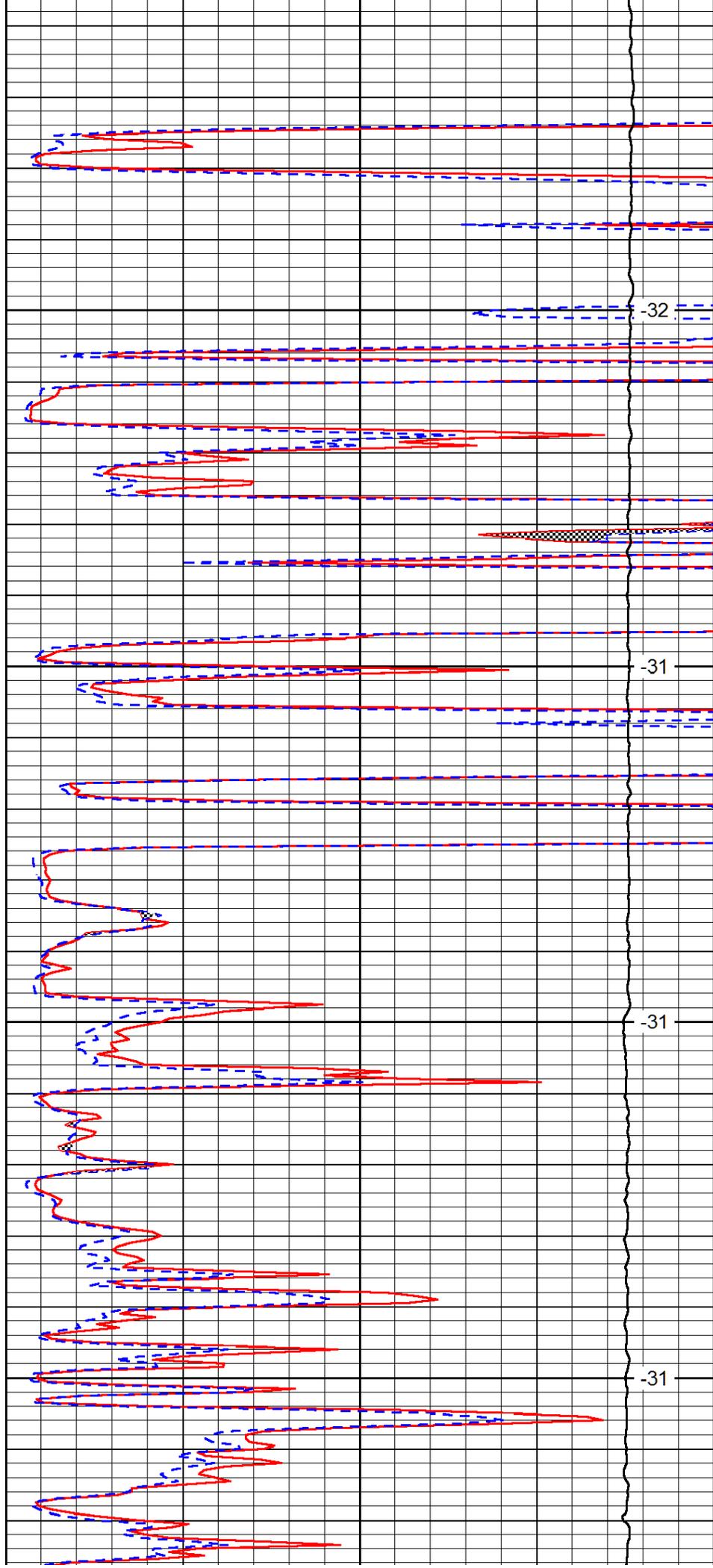


2150

2200

2250

2300

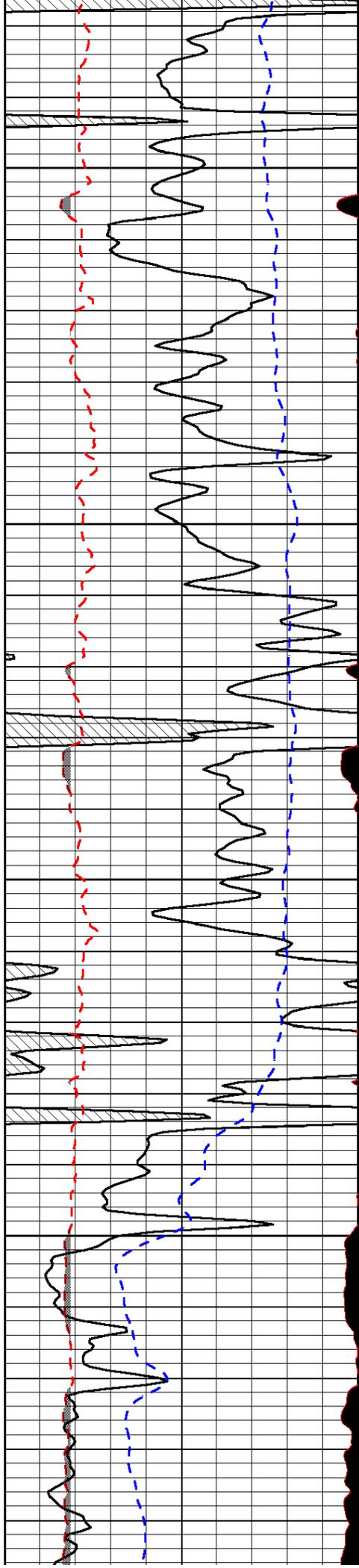


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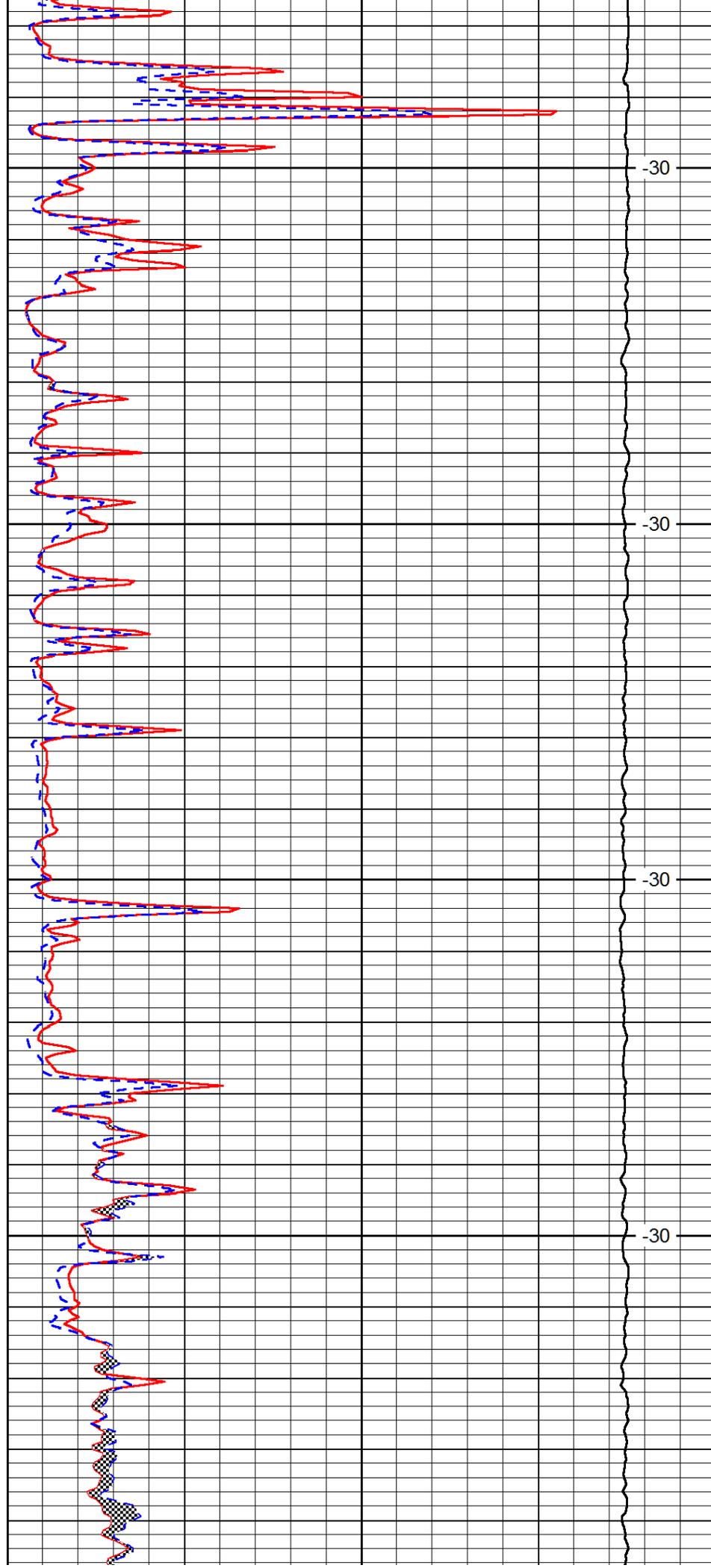


2350

2400

2450

2500

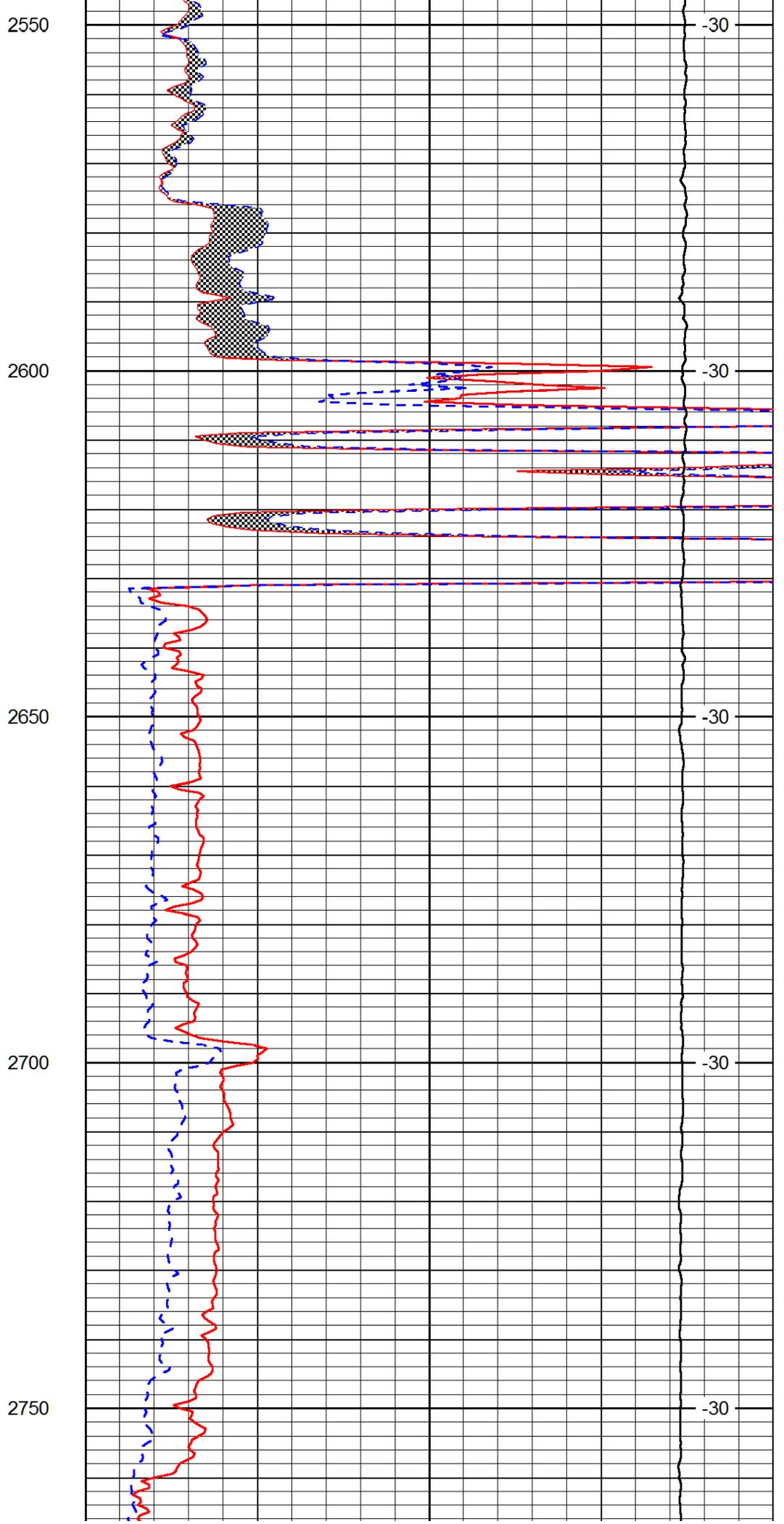
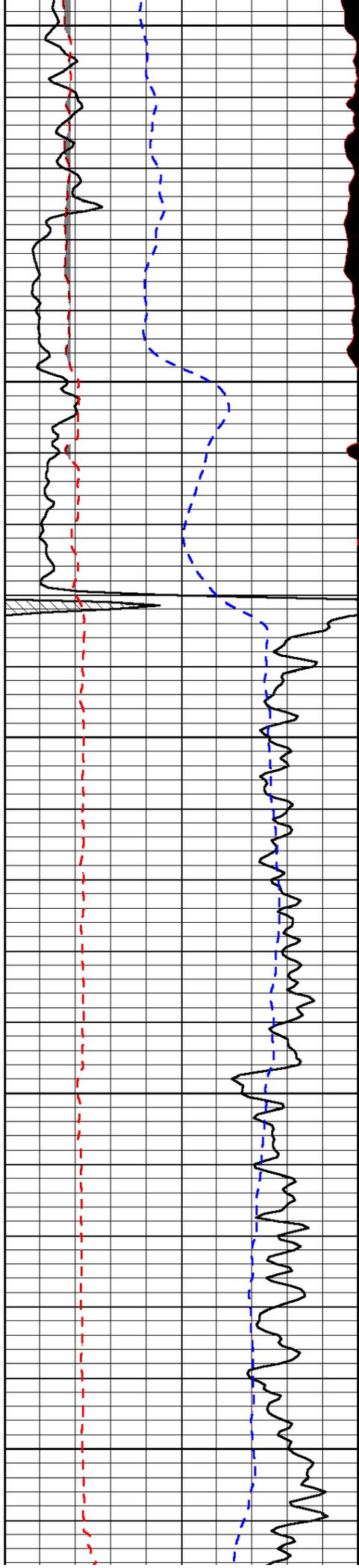


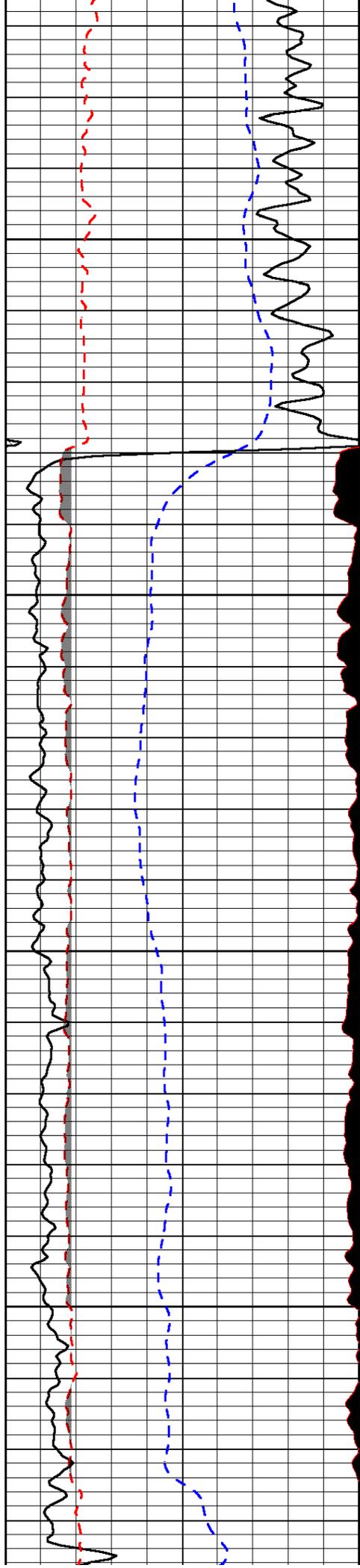
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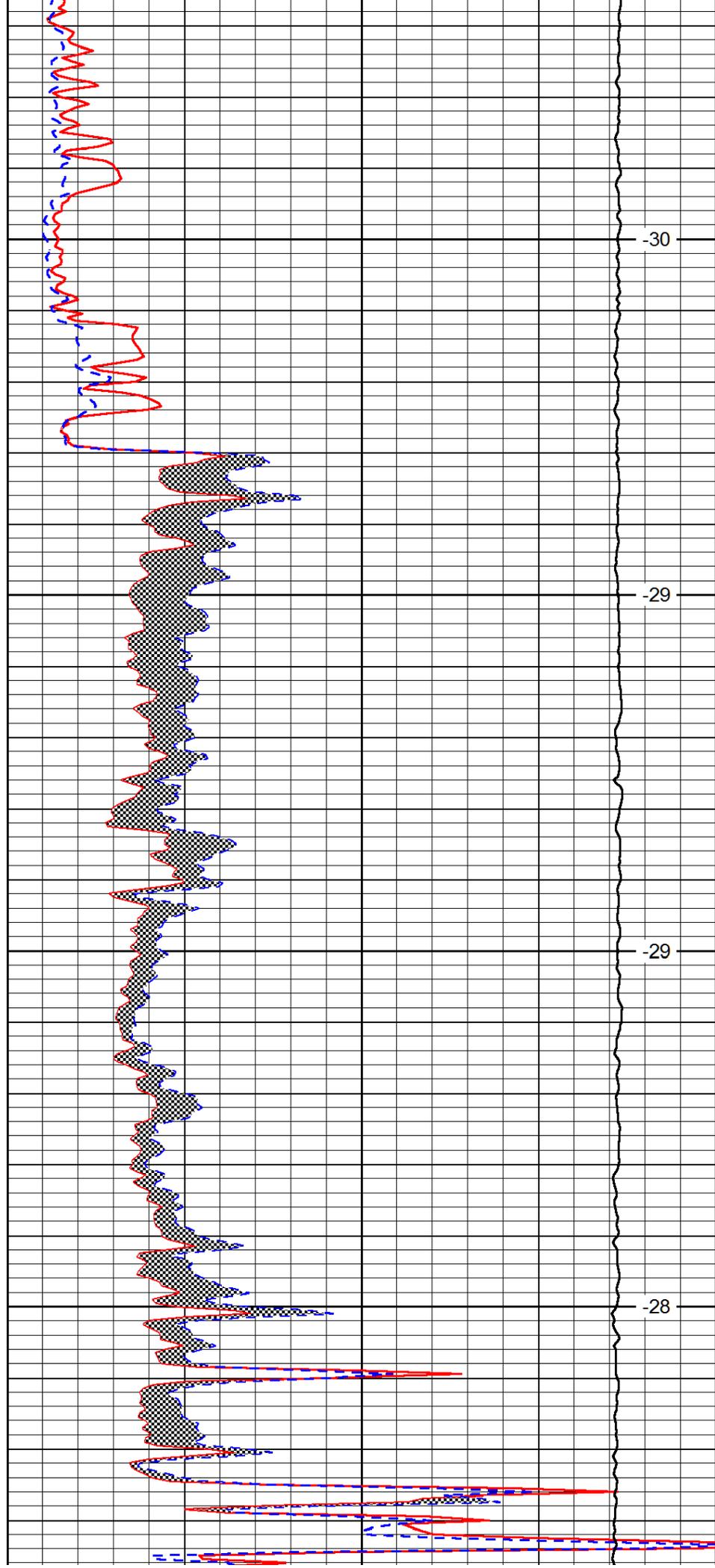


2800

2850

2900

2950

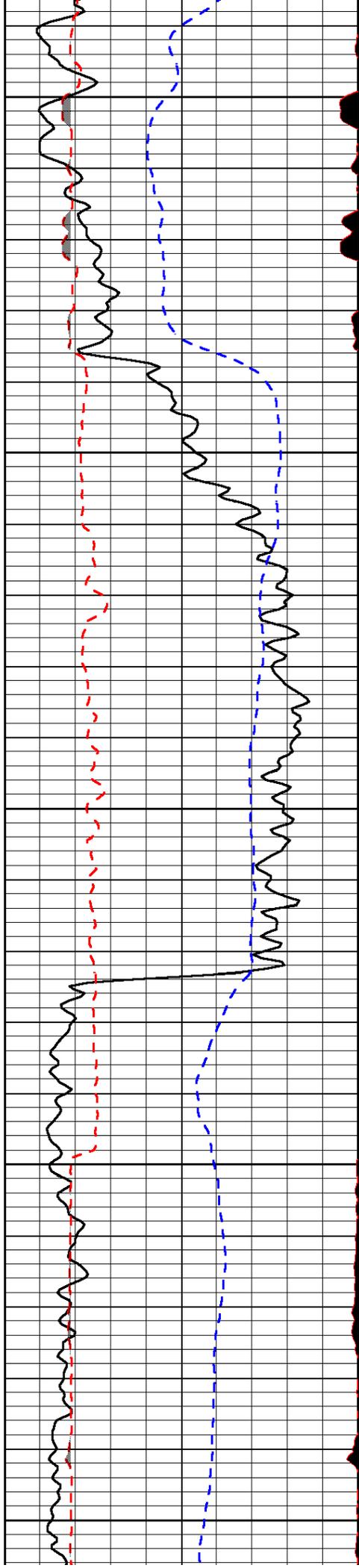


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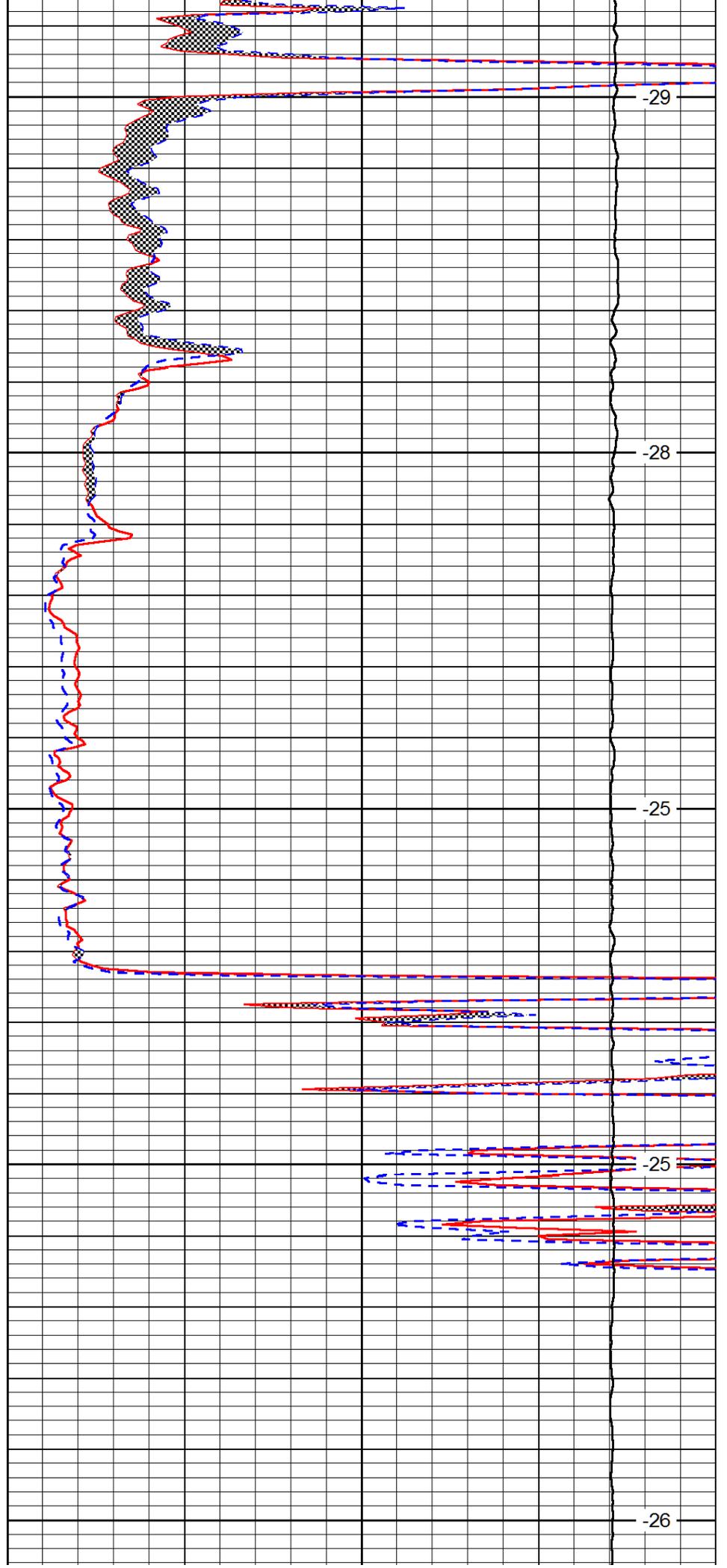
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3050

3100

3150

3200



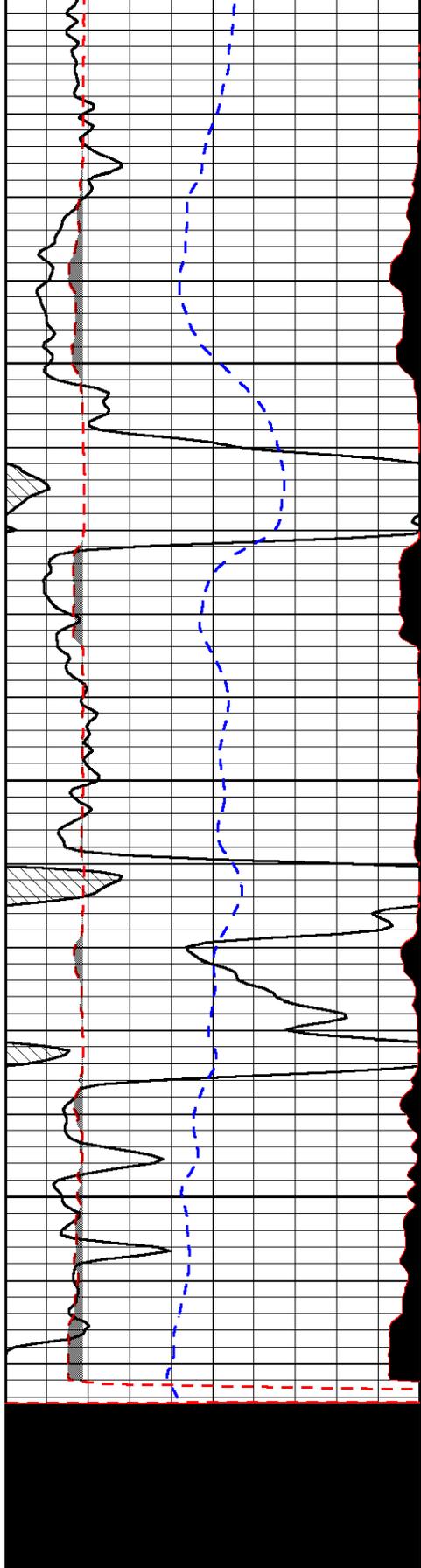
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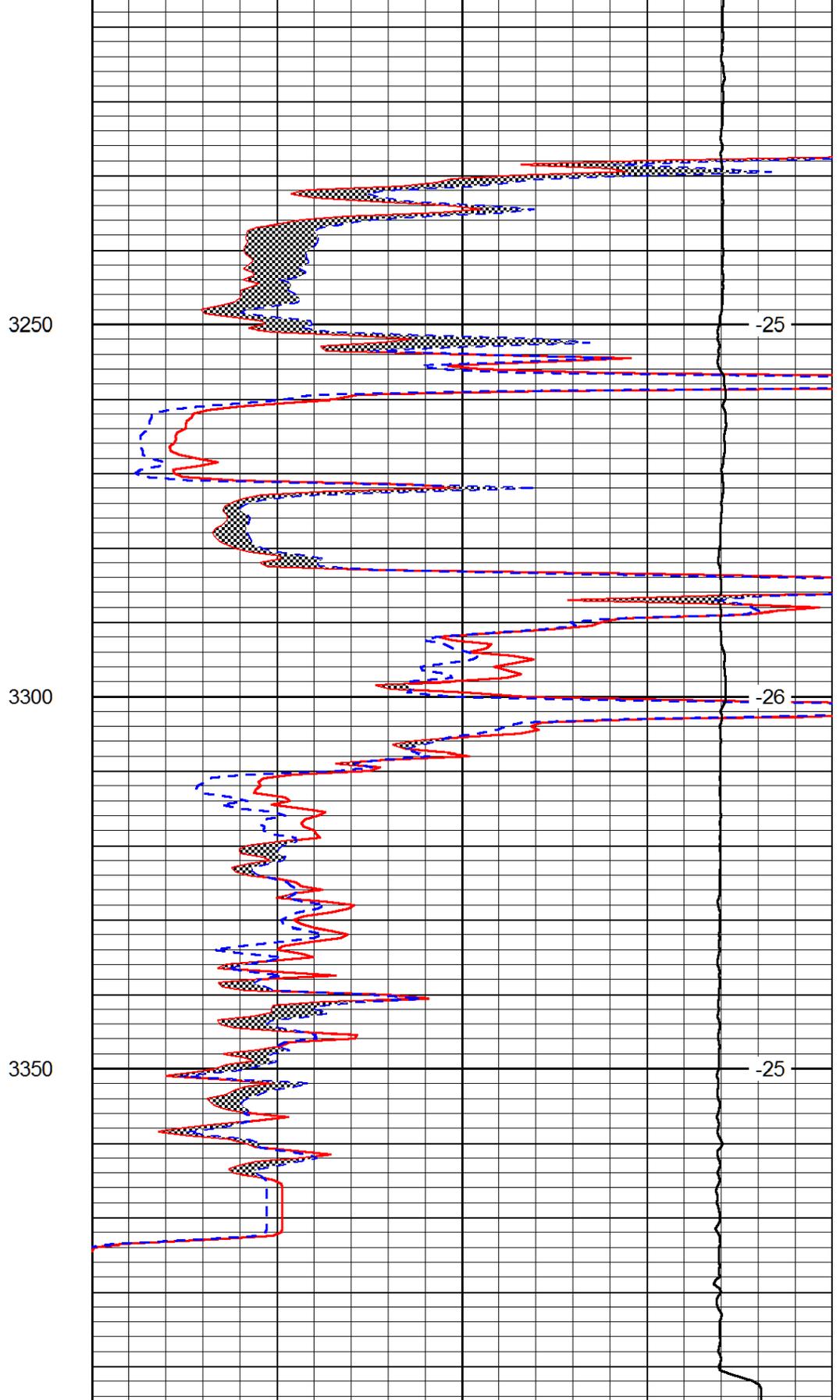
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