



**DIGITAL LOG** (785) 625-3858

**Microresistivity  
Log**

API No.	15-179-21,279-00-00
Company	Dan Haffner
Well	Haffner No. 2-20
Field	Lombardy
County	Sheridan
State	Kansas
Location	NW SW NE 1,600' FNL & 2,190' FEL
Sec: 20	Twp: 9 S Rge: 27 W
Other Services	CNL/CDL DIL/BHCS

Permanent Datum	Ground Level	Elevation 2744
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	4/18/2011	

Run Number	Two
Depth Driller	4500
Depth Logger	4500
Bottom Logged Interval	4499
Top Log Interval	3500
Casing Driller	8.625 @ 282
Casing Logger	280
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2000
Density / Viscosity	9.2   51
pH / Fluid Loss	10.5   6.8
Source of Sample	Flowline
Rm @ Meas. Temp	1.95 @ 60
Rmf @ Meas. Temp	1.46 @ 60
Rmc @ Meas. Temp	2.63 @ 60
Source of Rmf / Rmc	Charts
Rm @ BHT	.97 @ 121
Operating Rig Time	6 Hours
Max Rec. Temp. F	121
Equipment Number	10
Location	Hays
Recorded By	Jim Schuler
Witnessed By	Bruce Ard

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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**

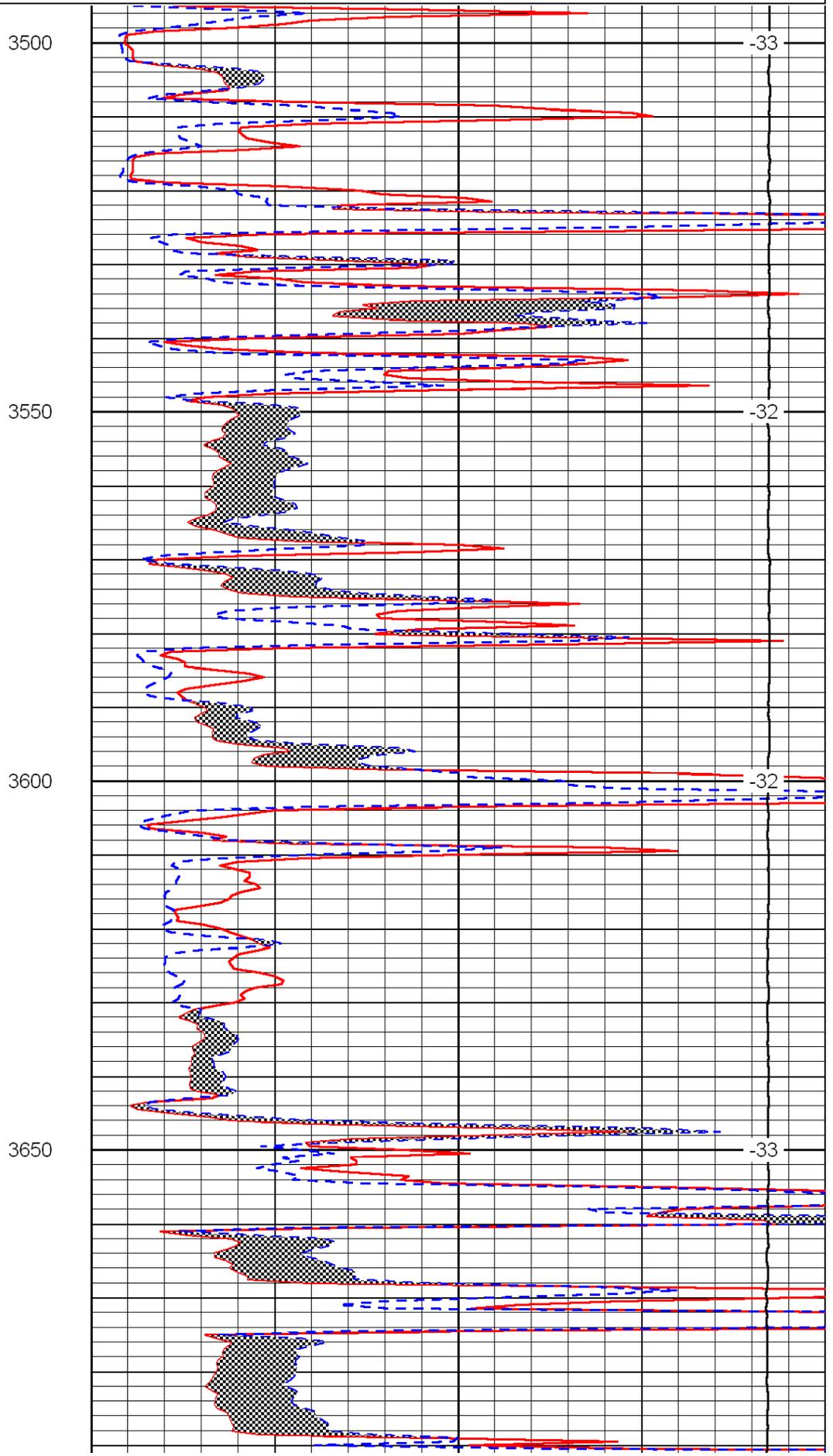
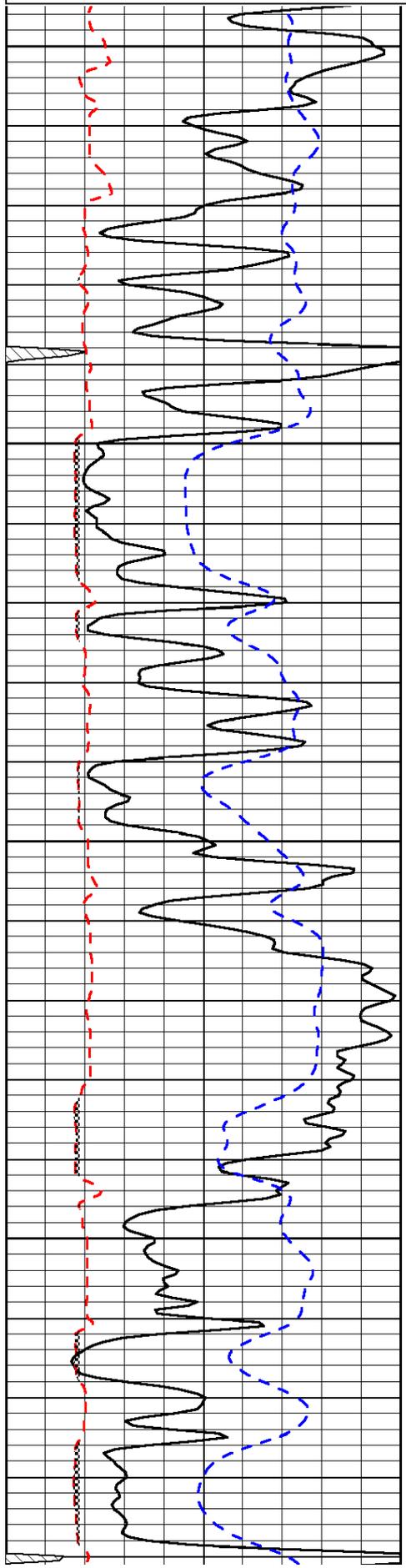
Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
  
 Park, Kansas, 10 Miles North to Road 70 S  
 East 1/2 Mile, South Into

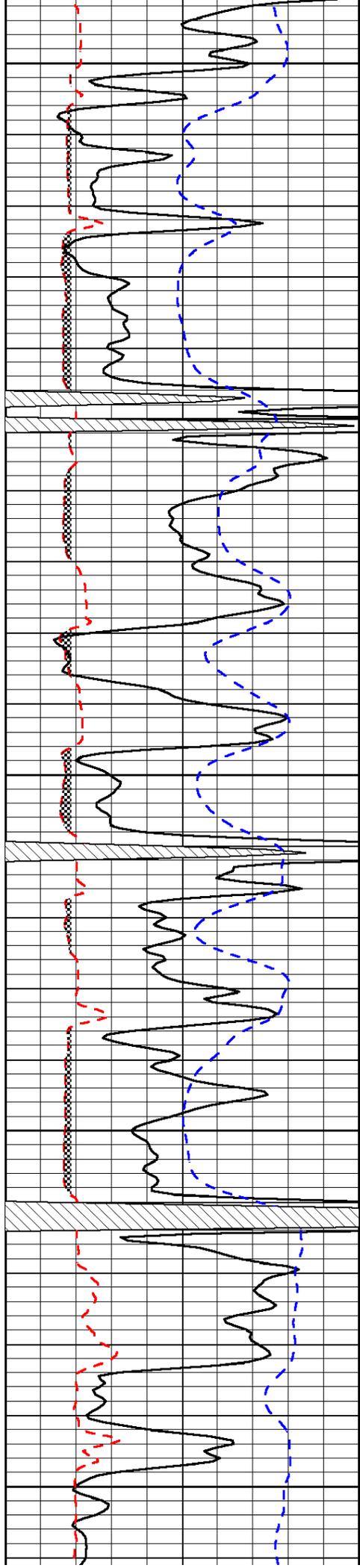
Database File:	c:\warrior\data\dan haffner_haffner no. 2-20\haffner_haffner_2_20hd.db
Dataset Pathname:	DIL/hafstk
Presentation Format:	micro
Dataset Creation:	Mon Apr 18 05:09:41 2011
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





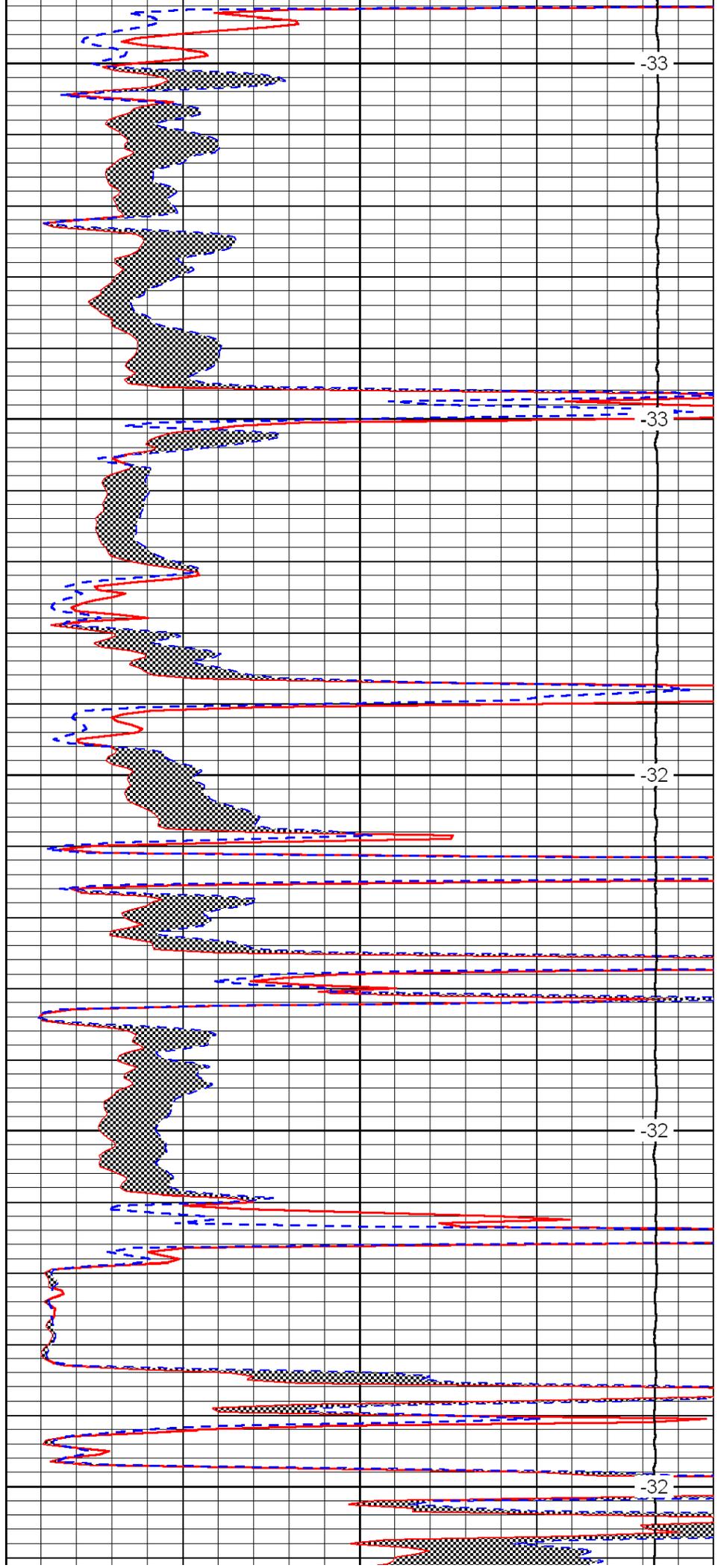
3700

3750

3800

3850

3900



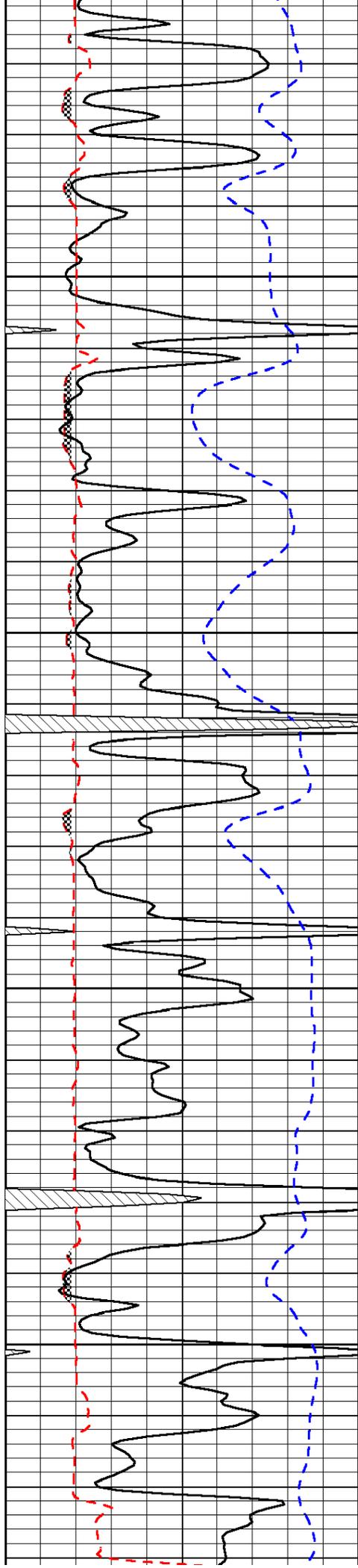
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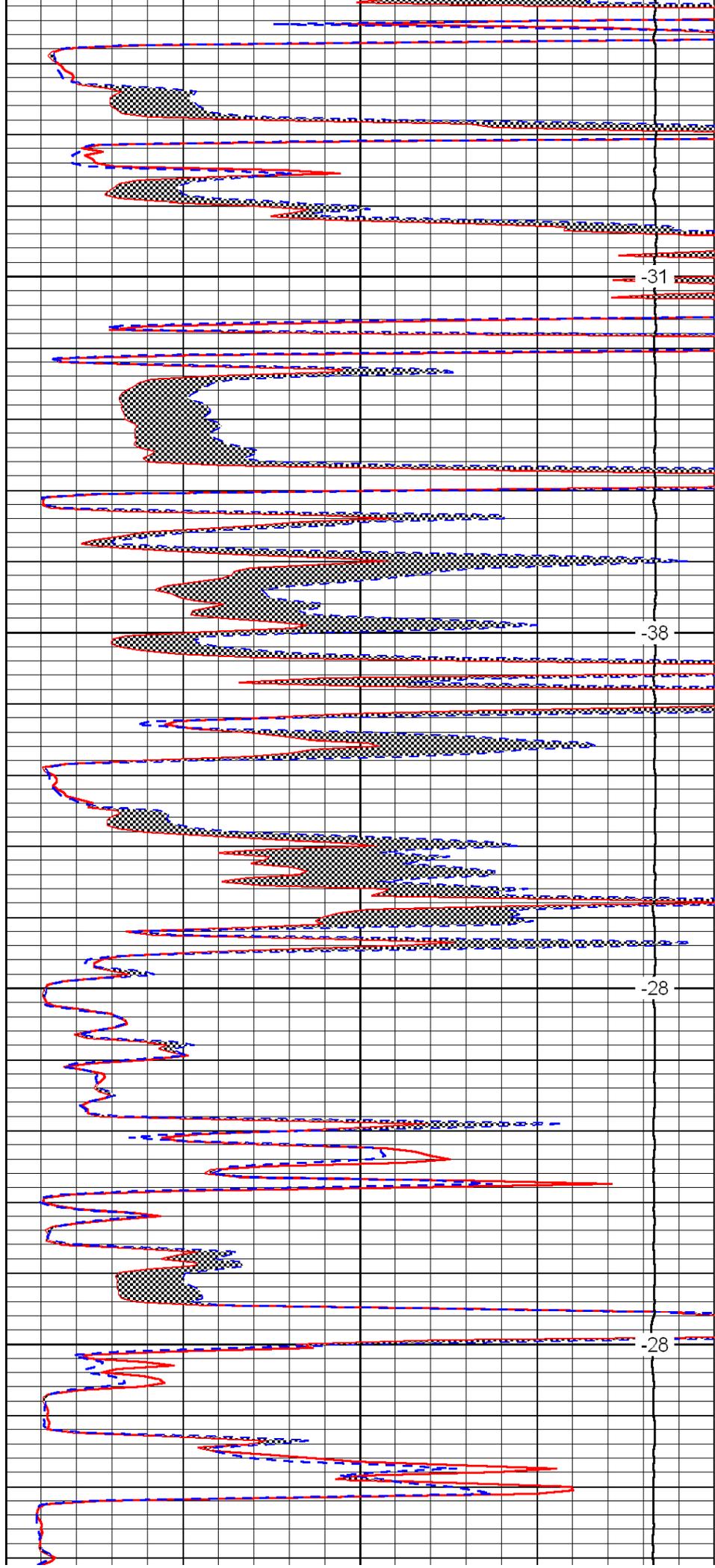


3950

4000

4050

4100

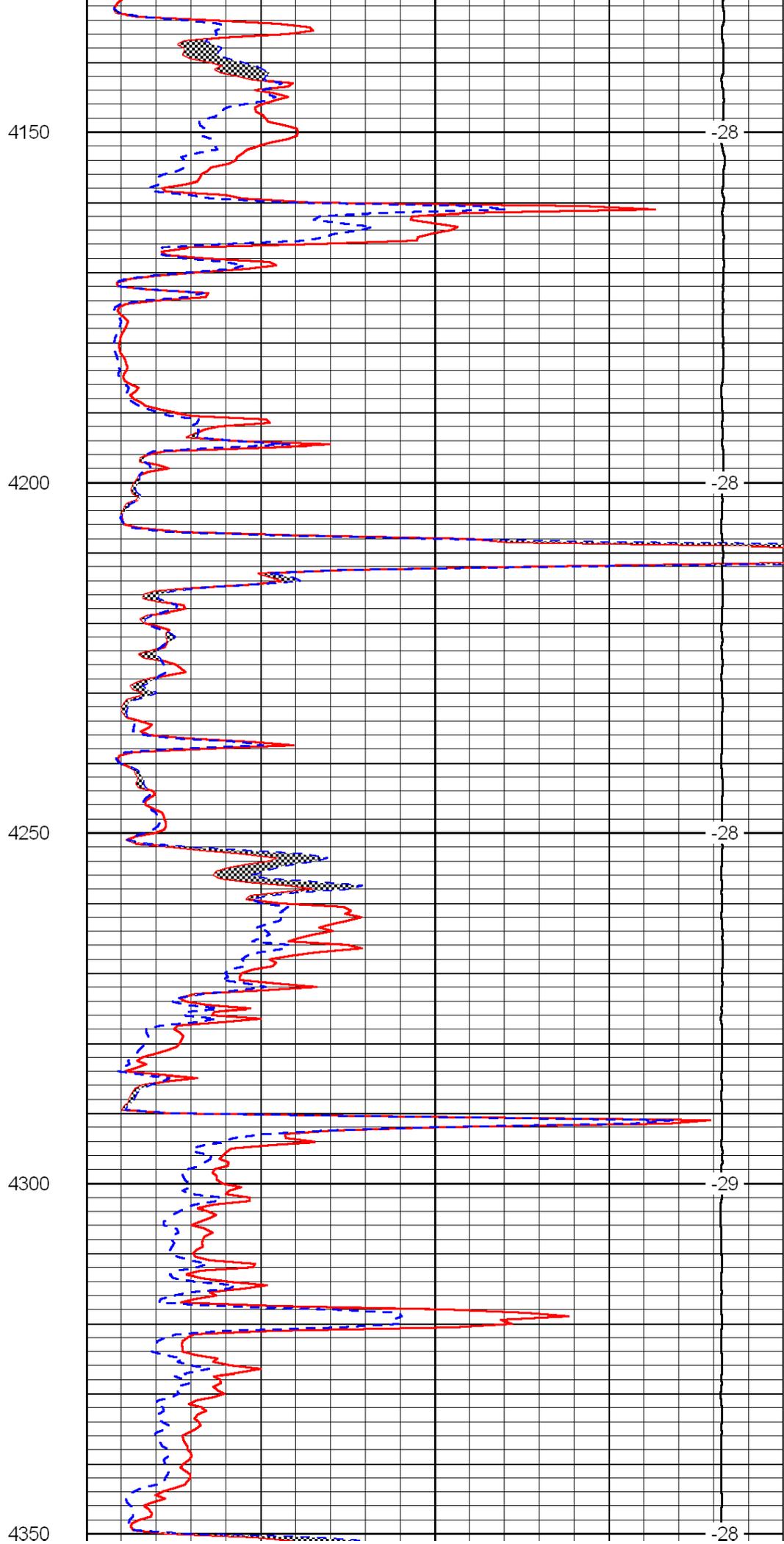
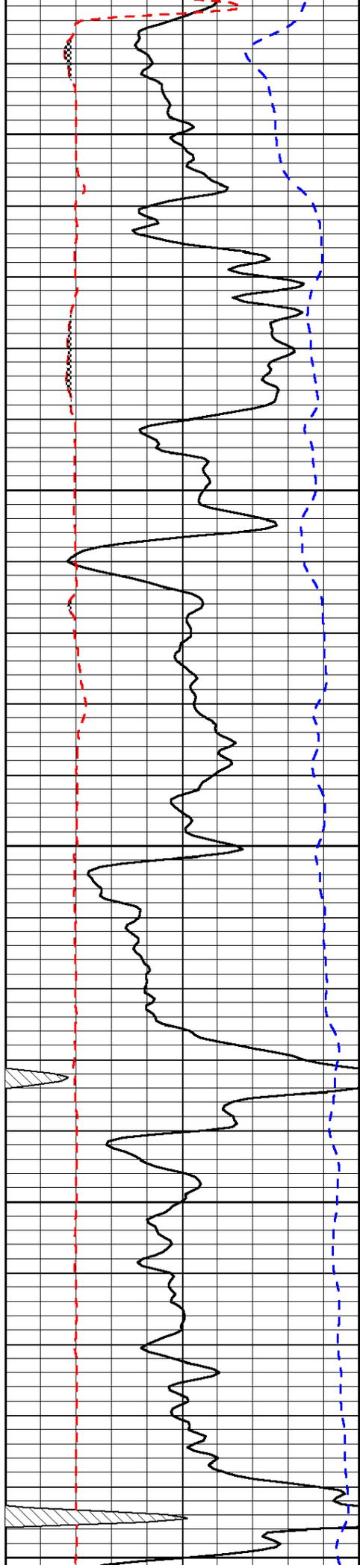


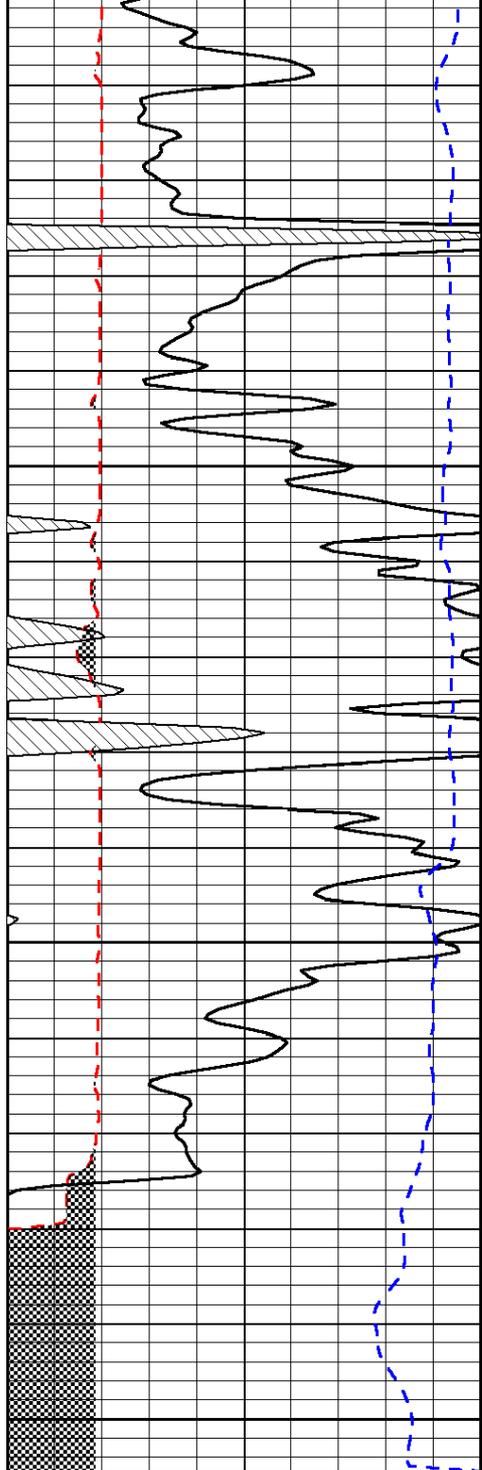
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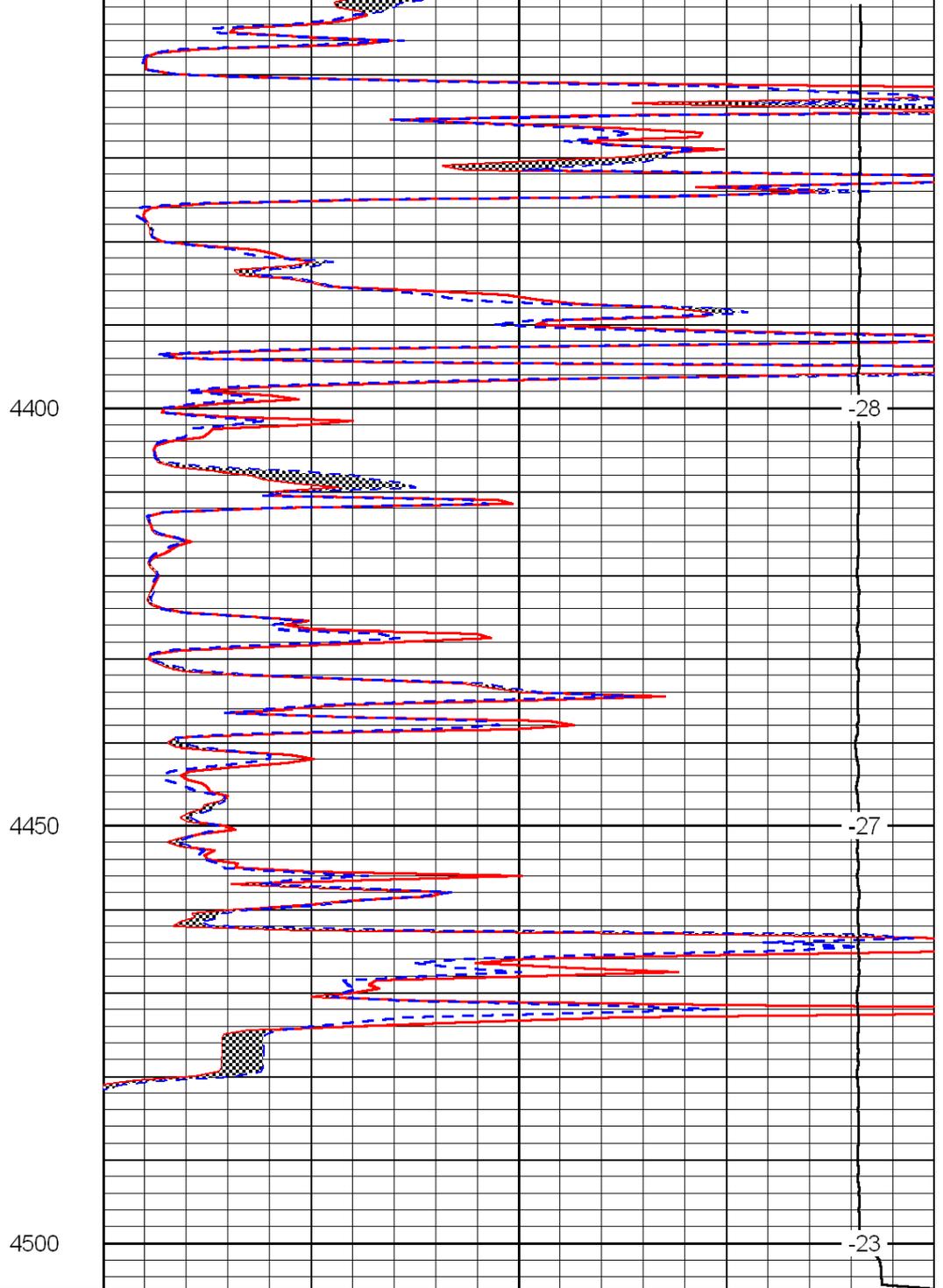
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