



# Microresistivity Log

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

API No.	15-039-21,085-00-00		
Company	Murfin Drilling Company, Inc.		
Well	Heilman No. 1-12		
Field	Wildcat		
County	Decatur	State	Kansas
Location	750' FNL & 370' FWL		
Sec: 12	Twp: 3 S	Rge: 27 W	
Permanent Datum	Ground Level	Elevation	2653
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
		Other Services	CNL/CDL DIL/BHCS
		Elevation	K.B. 2658 D.F. 2653 G.L. 2653

Date	1/27/2009	
Run Number	Two	
Depth Driller	3890	
Depth Logger	3890	
Bottom Logged Interval	3889	
Top Log Interval	3300	
Casing Driller	8.625 @ 260	
Casing Logger	259	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	2,300	
Density / Viscosity	9.1	54
pH / Fluid Loss	6.8	10.5
Source of Sample	Flowline	
Rm @ Meas. Temp	1.4 @ 60	
Rmf @ Meas. Temp	1.05 @ 60	
Rmc @ Meas. Temp	1.89 @ 60	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.72 @ 116	
Operating Rig Time	5 1/2 Hours	
Max Rec. Temp. F	116	
Equipment Number	4	
Location	Hays	
Recorded By	K. Bange	
Witnessed By	Paul Gunzelman	

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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

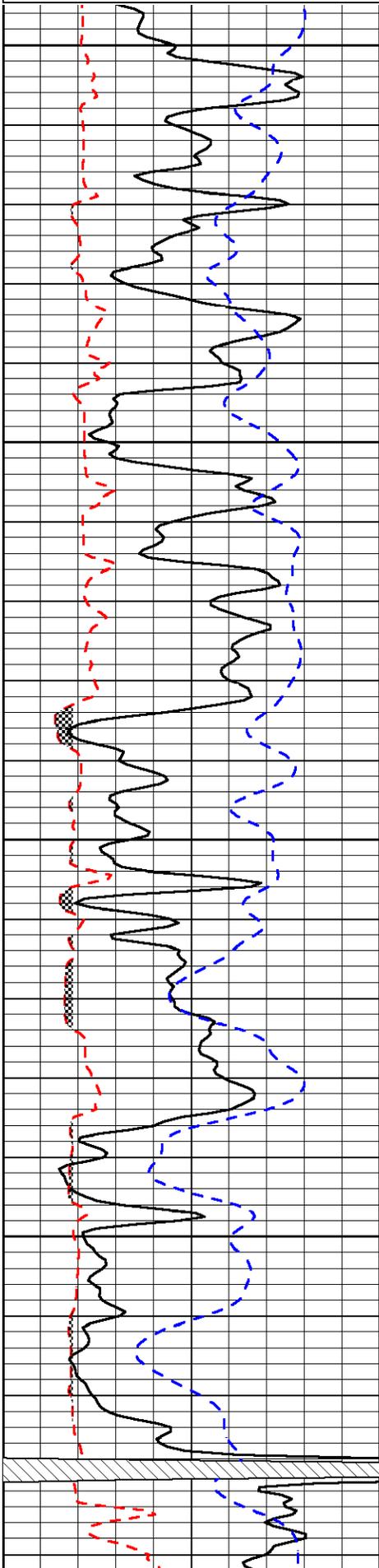
Oberlin, E 12 on Hwy to rd 12E, S 1 1/4, E into

Database File: c:\warrior\data\murfin\_heilman no. 1-12\murfinhd.db  
 Dataset Pathname: dil/murf2in  
 Presentation Format: micro  
 Dataset Creation: Tue Jan 27 08:29:42 2009  
 Charted by: Depth in Feet scaled 1:240

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

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

LSPD

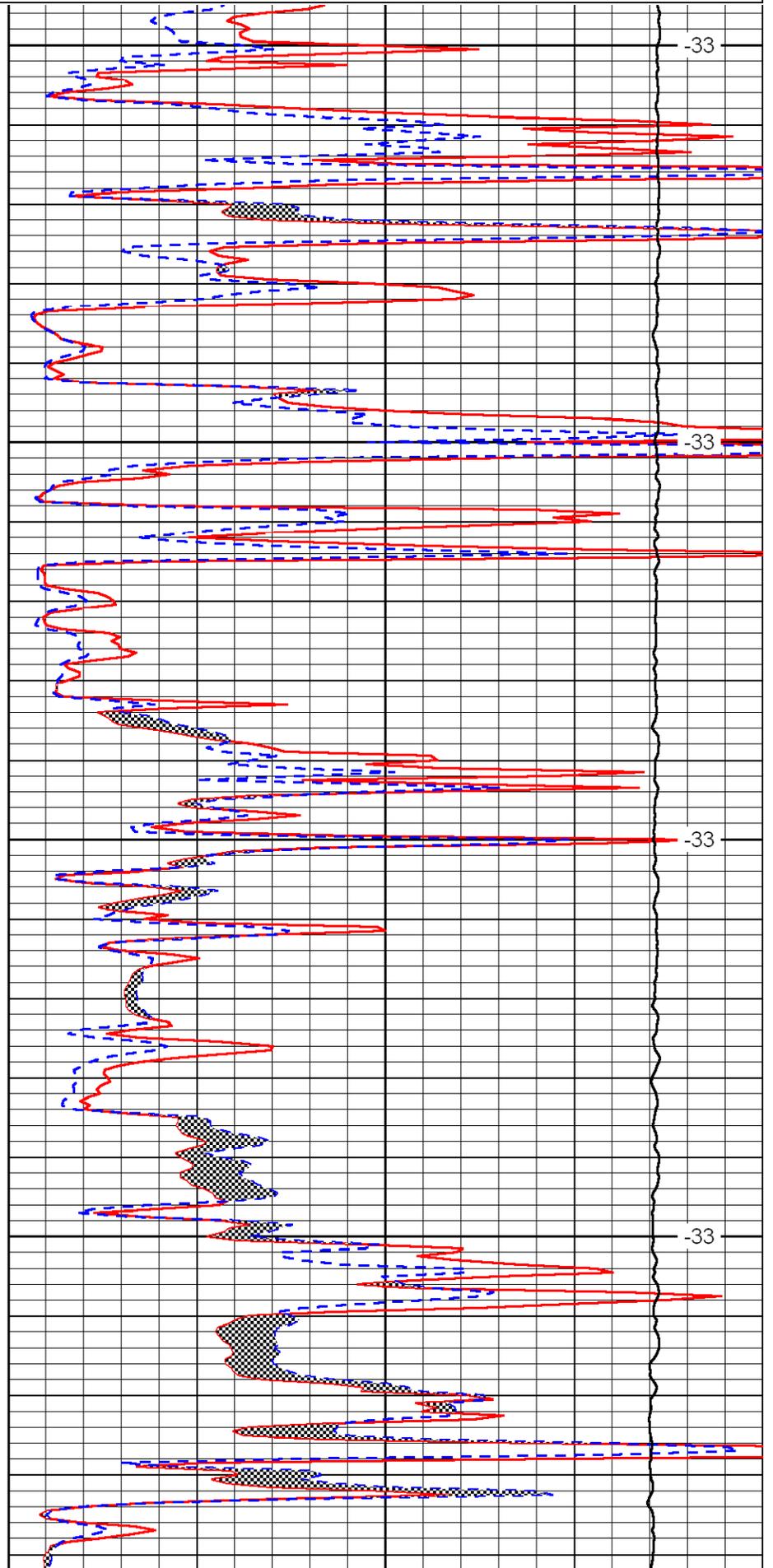


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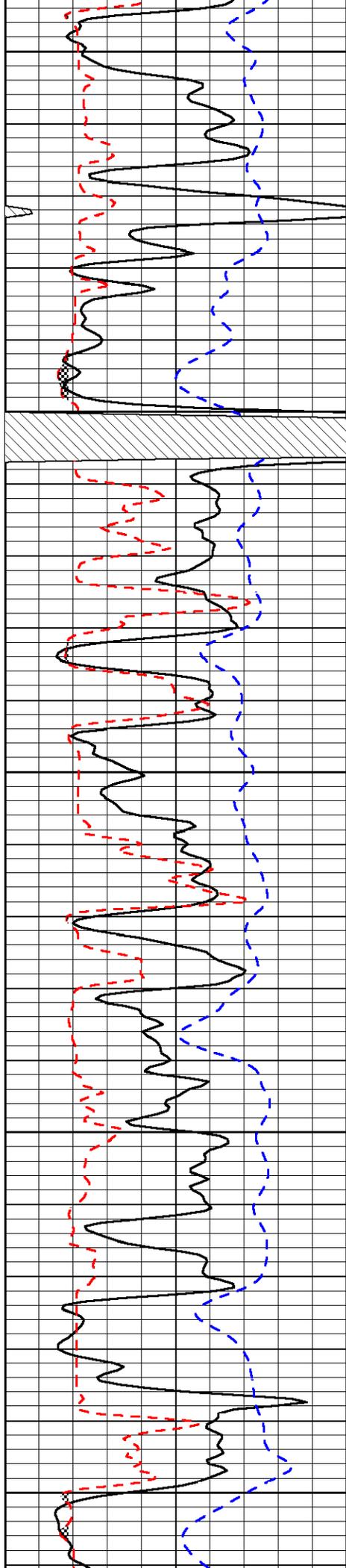


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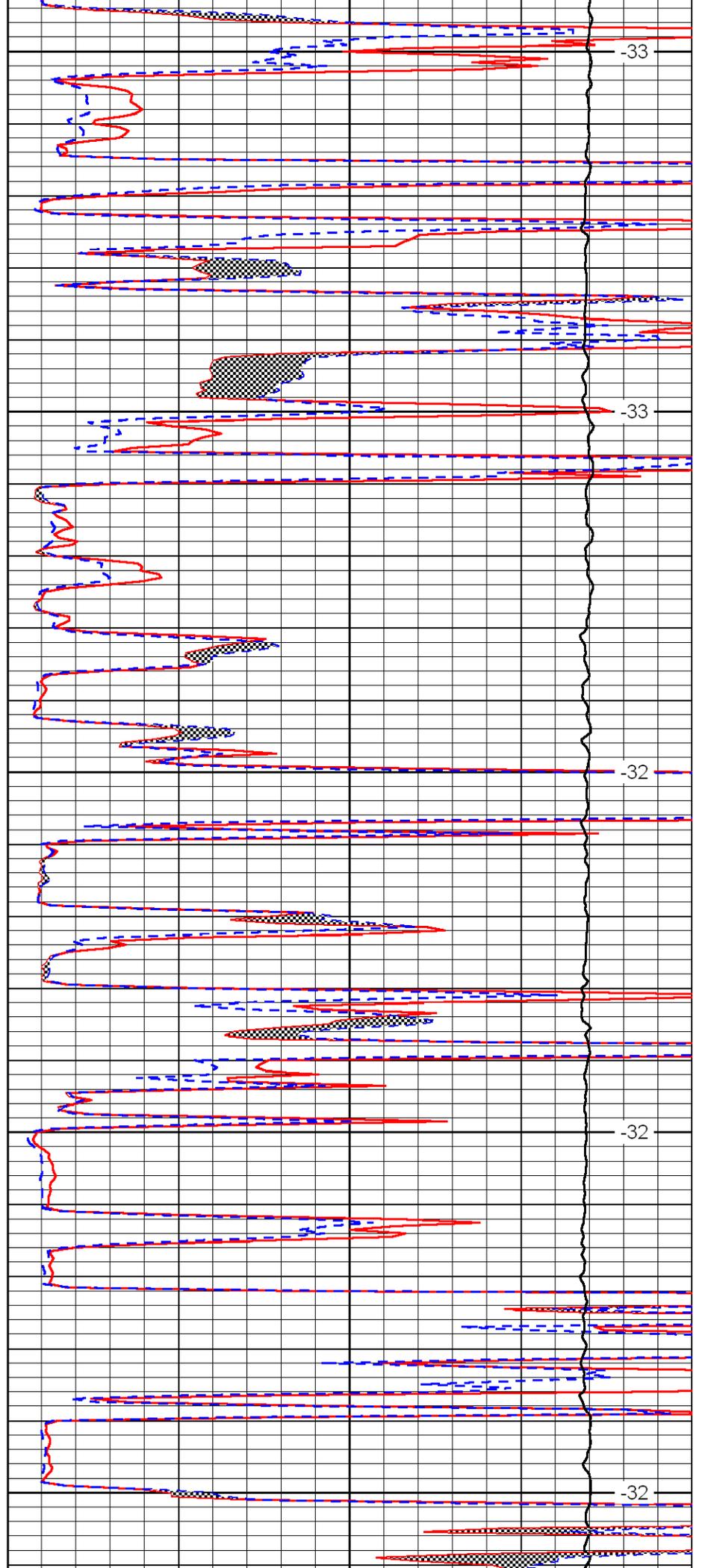
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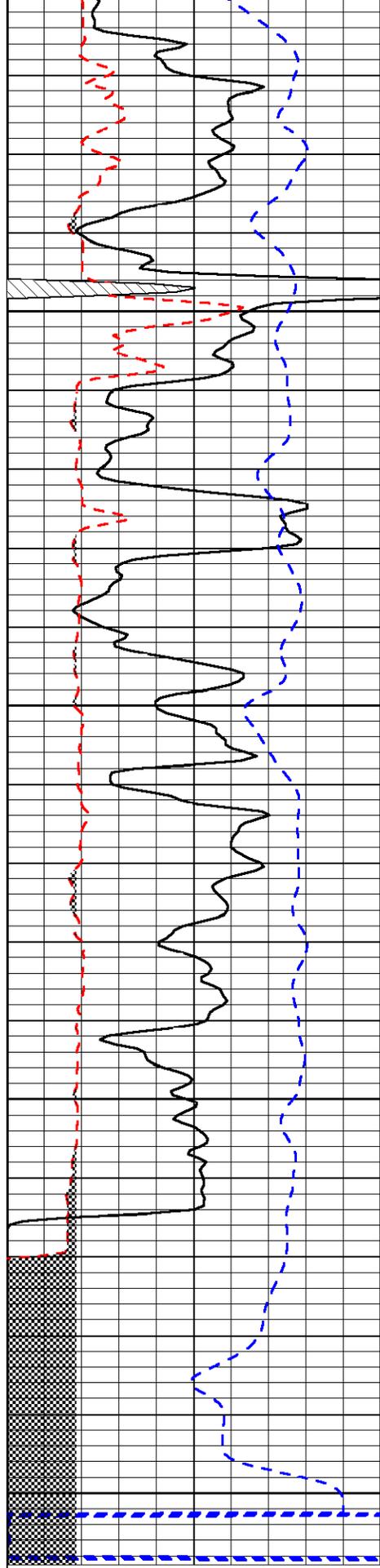
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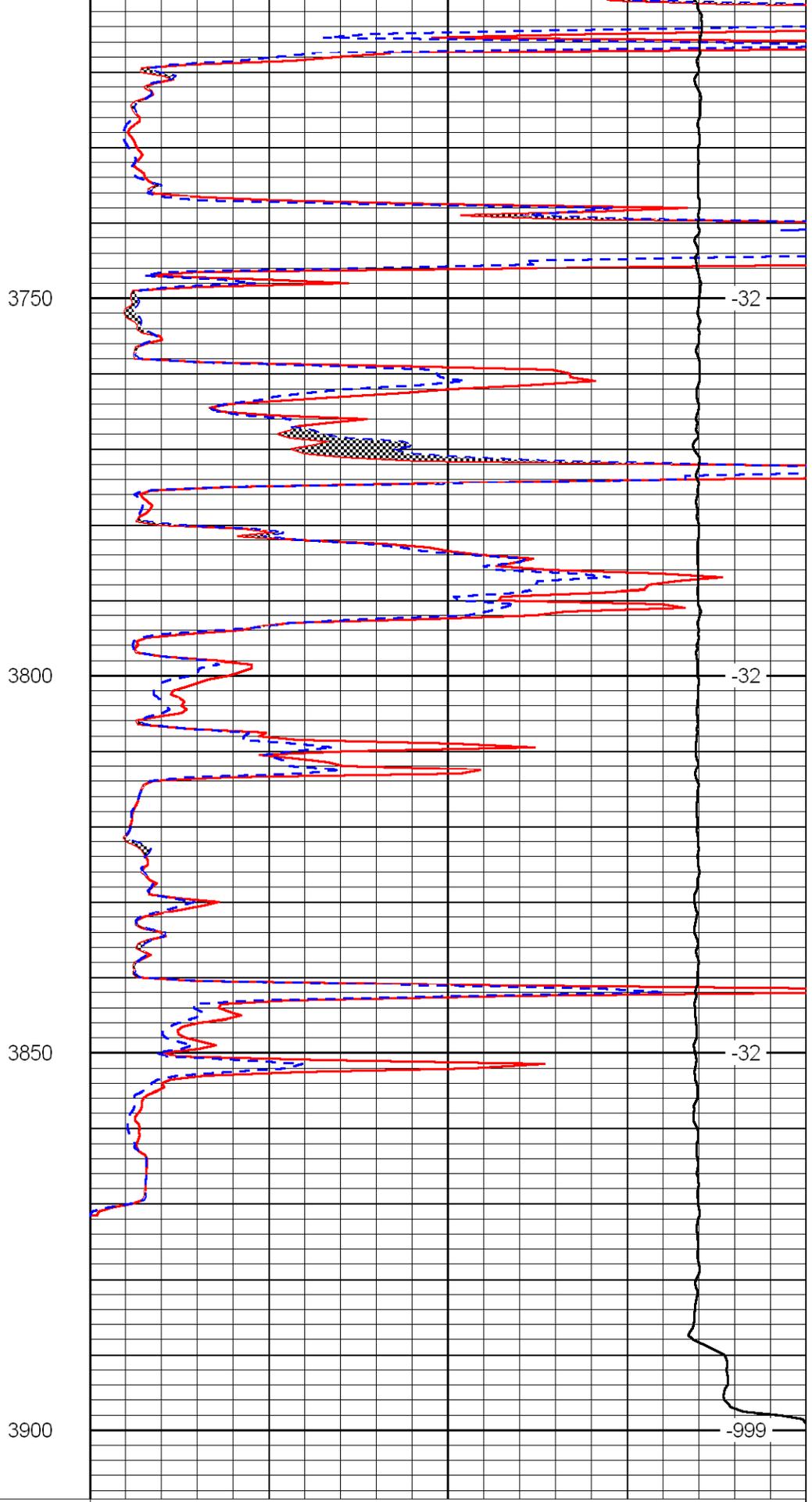
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