



# MICRORESISTIVITY LOG

**Company** BEAR PETROLEUM, LLC  
**Well** GL SCHMIDT "B" NO. 1  
**Field** BULL CREEK  
**County** RICE **State** KANSAS

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**Location:** API #: 15-159-22831-00-00  
 NE NE SW NW  
 1,550' FNL & 1,250' FWL  
 SEC 21 TWP 21S RGE 8W  
**Permanent Datum** GROUND LEVEL Elevation 1629'  
**Log Measured From** KELLY BUSHING  
**Drilling Measured From** KELLY BUSHING  
**Other Services** CNL/CDL DIL  
**Elevation** 1639'  
**K.B.** N/A  
**D.F.** N/A  
**G.L.** 1629'

Date	4/14/2016
Run Number	ONE
Depth Driller	3773'
Depth Logger	3774'
Bottom Logged Interval	3773'
Top Log Interval	2700'
Casing Driller	8.625" @ 278'
Casing Logger	271'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.5 49
pH / Fluid Loss	9.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.64 @ 62
Rmt @ Meas. Temp	.48 @ 62
Rmc @ Meas. Temp	.86 @ 62
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.35 @ 114
Operating Rig Time	2 1/2 HOURS
Max Rec. Temp. F	114 DEG F.
Equipment Number	108
Location	COLBY
Recorded By	J. LONG
Witnessed By	JIM MUSGROVE

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

### Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

STERLING, 1 1/2 EAST ON AVENUE W (SOUTH EDGE OF TOWN) TO 17 ROAD, 1/4 SOUTH, EAST INTO (NORTH SIDE OF RR TRACKS)

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES  
[www.pioneerenergy.com](http://www.pioneerenergy.com) 785-625-3858

### Your Pioneer Energy Services Crew

Engineer: J. LONG  
 Operator:  
 Operator:  
 Operator: M. HISS

### This Log Record Was Witnessed By

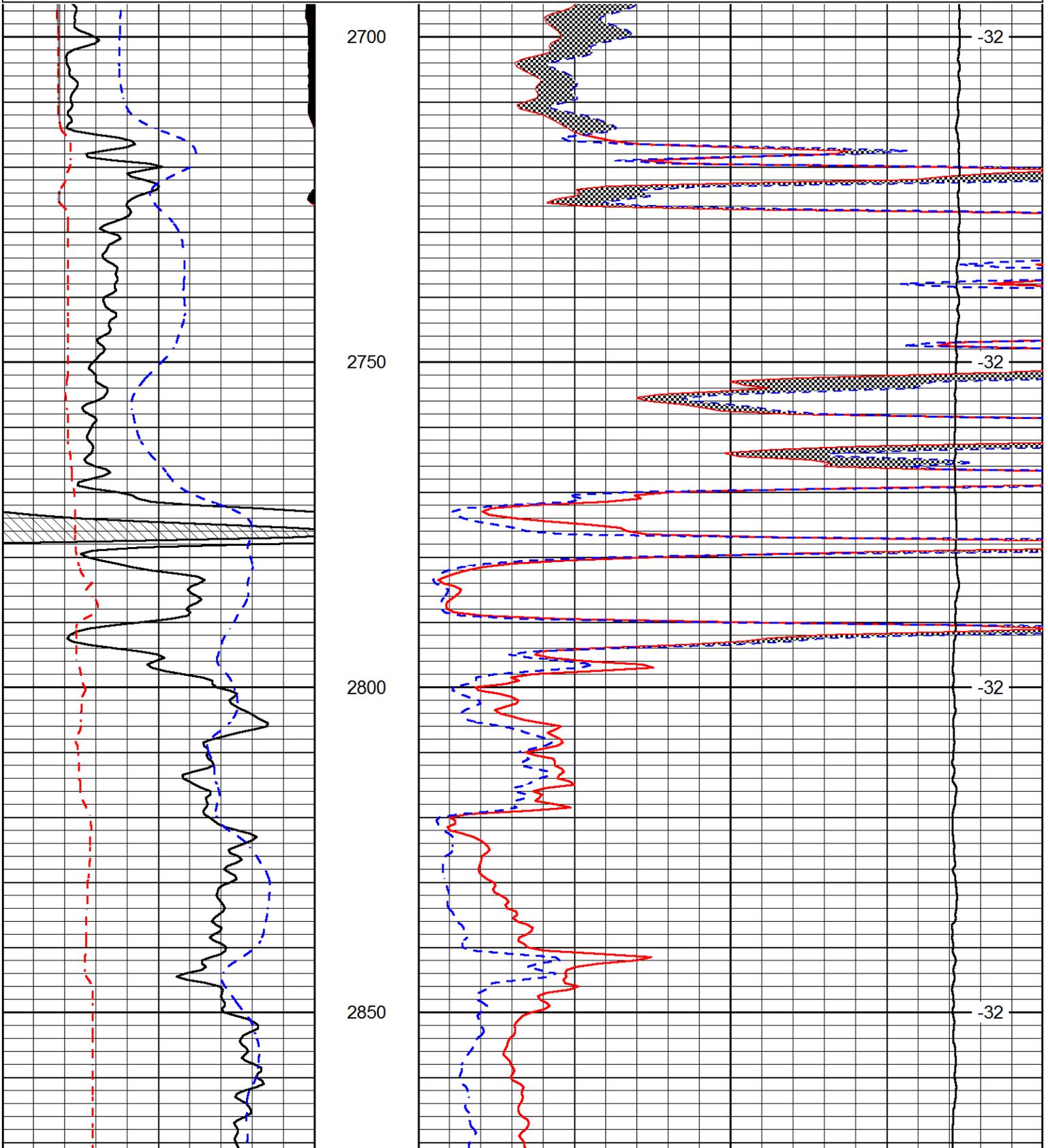
Primary Witness: JIM MUSGROVE  
 Secondary Witness:  
 Secondary Witness:  
 Secondary Witness:

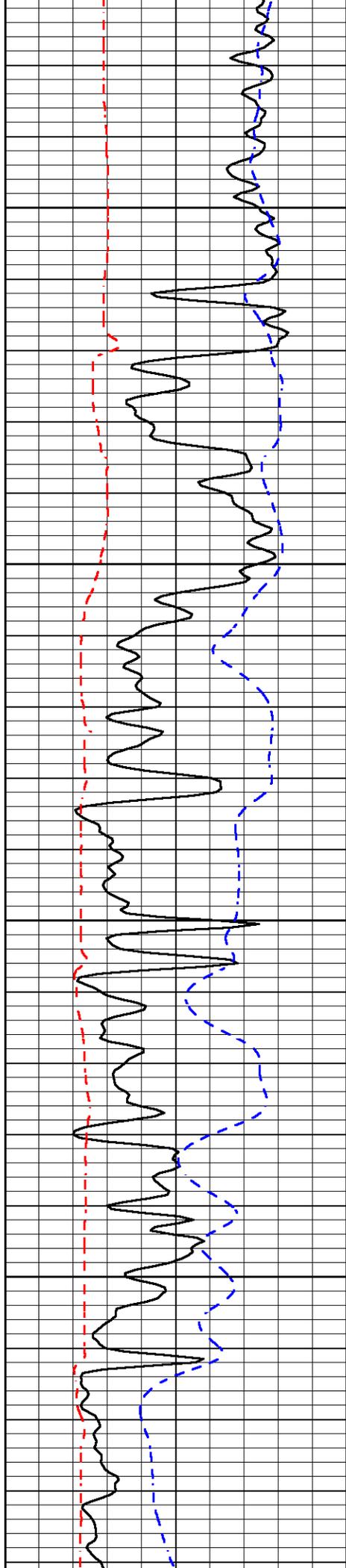
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 Presentation Format micro  
 Dataset Creation Fri Apr 15 00:00:27 2016  
 Charted by Depth in Feet scaled 1:240

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)



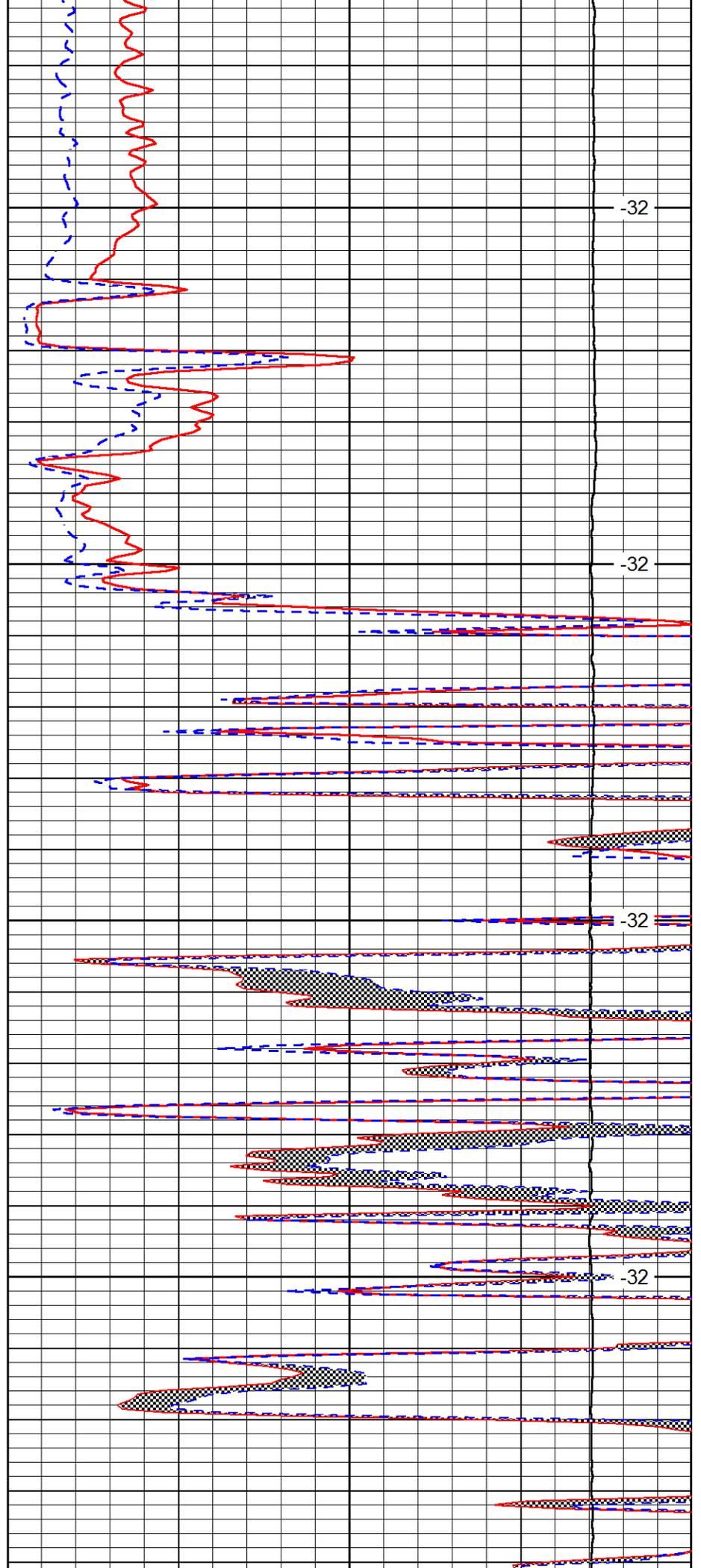


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2950

3000

3050

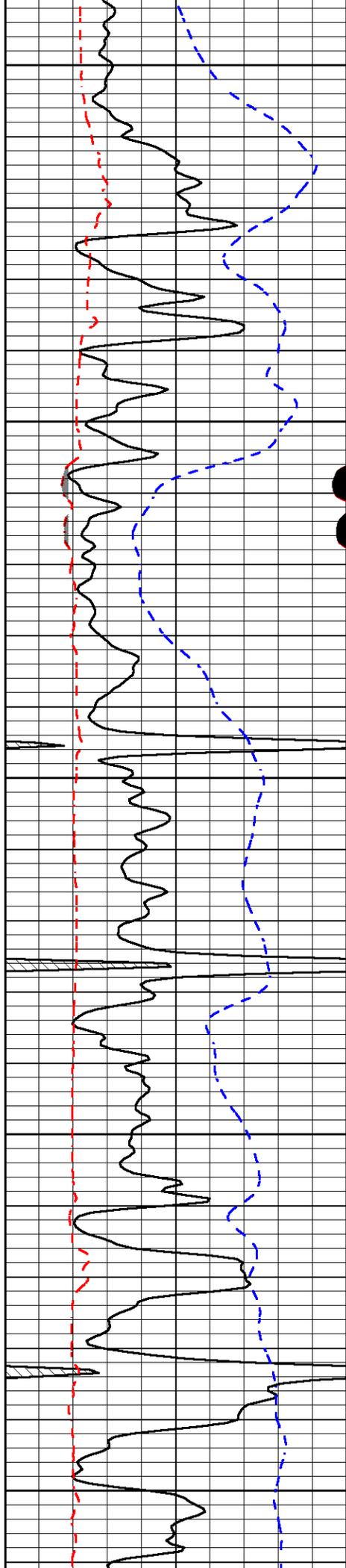


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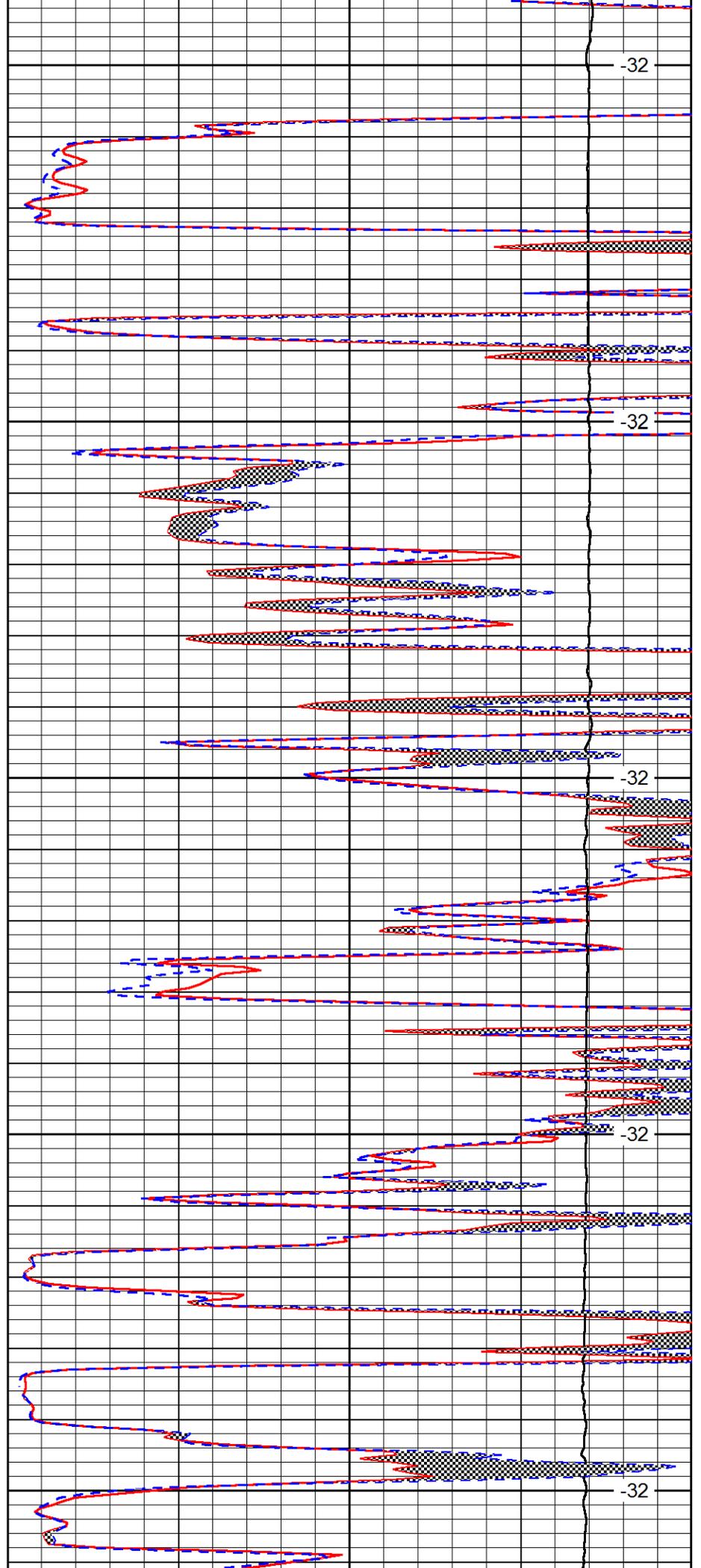
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3200

3250

3300



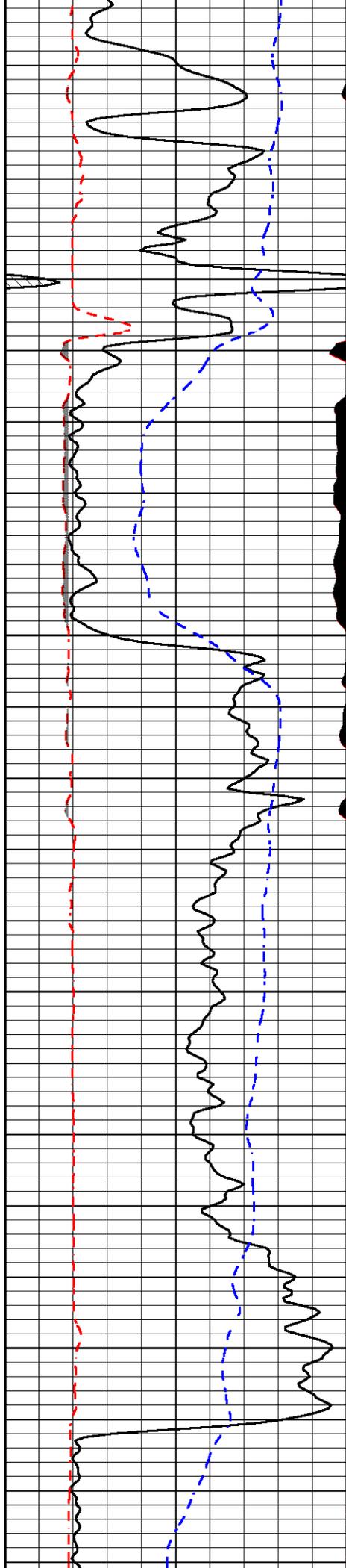
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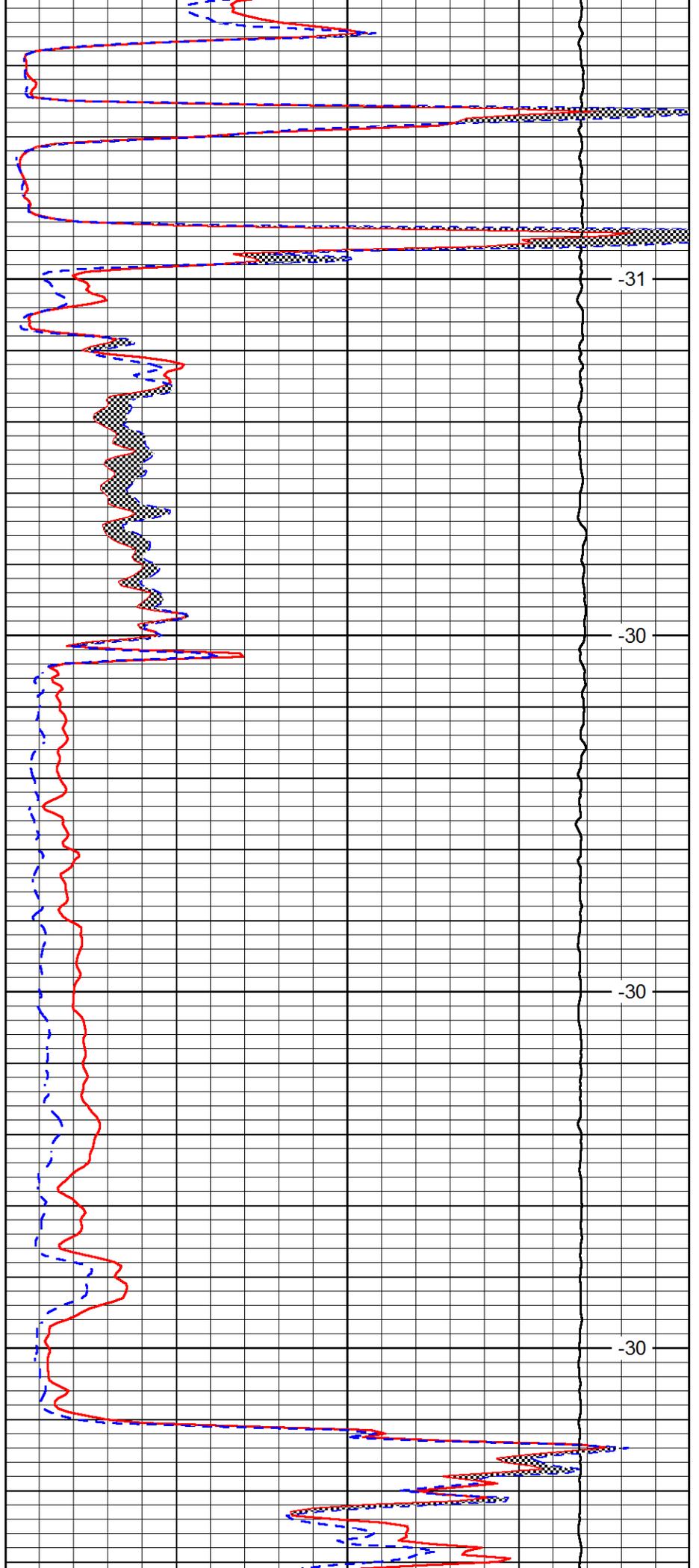


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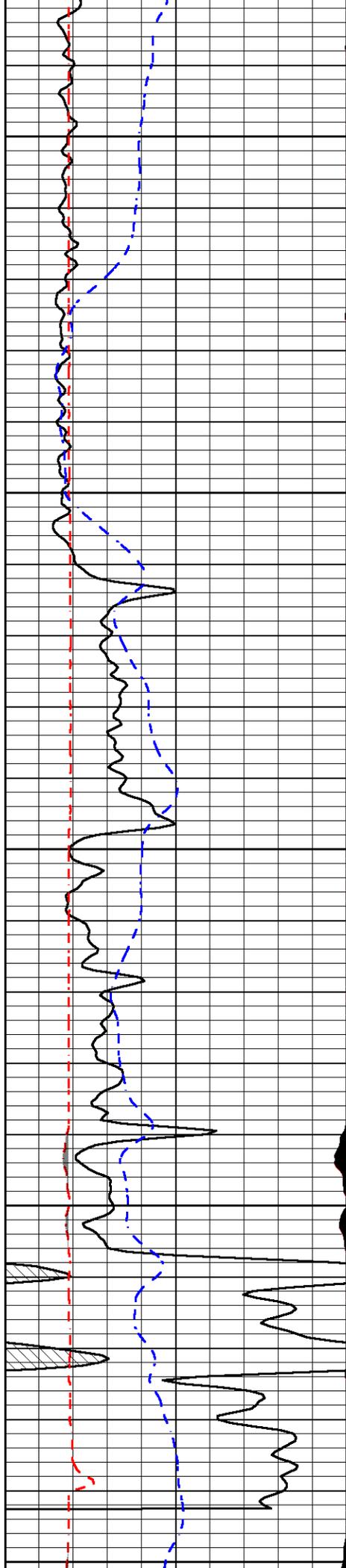


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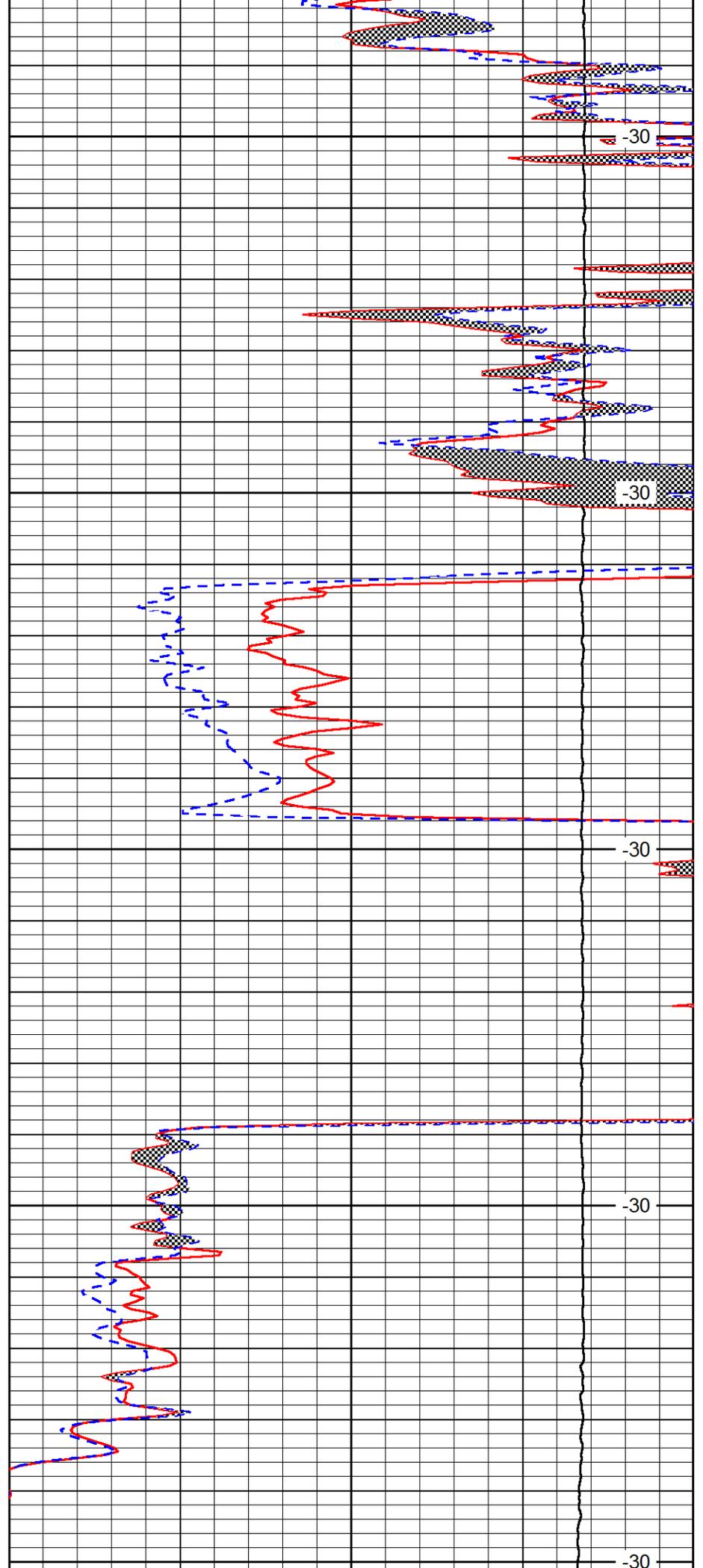
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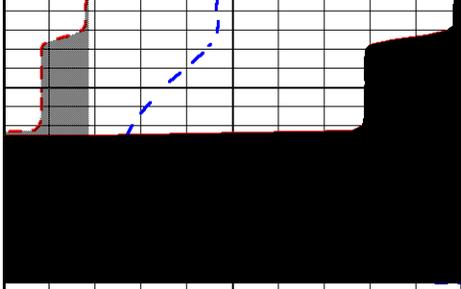
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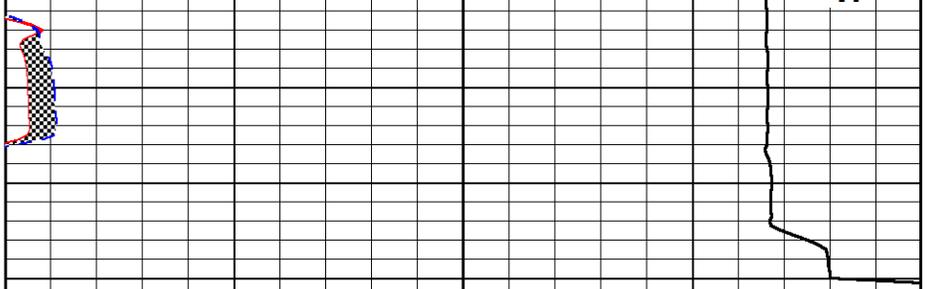
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