



Pioneer Energy Services

# Microresistivity Log

15-053-21,316-00-00

**Company** Bennett & Schulte Oil Company  
**Well** Zvolanek Heirs #33-1  
**Field** Stoltenberg  
**County** Ellsworth **State** Kansas

**Location** NW SW SE NW  
 2008' FNL & 1596' FWL  
**Sec:** 33 **Twp:** 15S **Rge:** 10W

Other Services  
 RAG/BHCS

**Permanent Datum** Ground Level Elevation 1743  
**Log Measured From** Kelly Bushing 7 Ft. Above Perm. Datum  
**Drilling Measured From** Kelly Bushing

Elevation  
 K.B. 1750  
 D.F. 1743  
 G.L. 1743

Date	9/30/2014
Run Number	Two
Depth Driller	3337
Depth Logger	3332
Bottom Logged Interval	3331
Top Log Interval	2450
Casing Driller	8.625 @ 305
Casing Logger	303
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	10,000
Density / Viscosity	9.0   51
pH / Fluid Loss	8.5   12.4
Source of Sample	Flowline
Rm @ Meas. Temp	0.62 @ 80
Rmf @ Meas. Temp	0.47 @ 80
Rmc @ Meas. Temp	0.84 @ 80
Source of Rmf / Rmc	Charts
Rm @ BHT	0.45 @ 109
Operating Rig Time	4 Hours
Max Rec. Temp. F	109
Equipment Number	15
Location	Hays
Recorded By	D.Kerr
Witnessed By	Bob Hopkins

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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

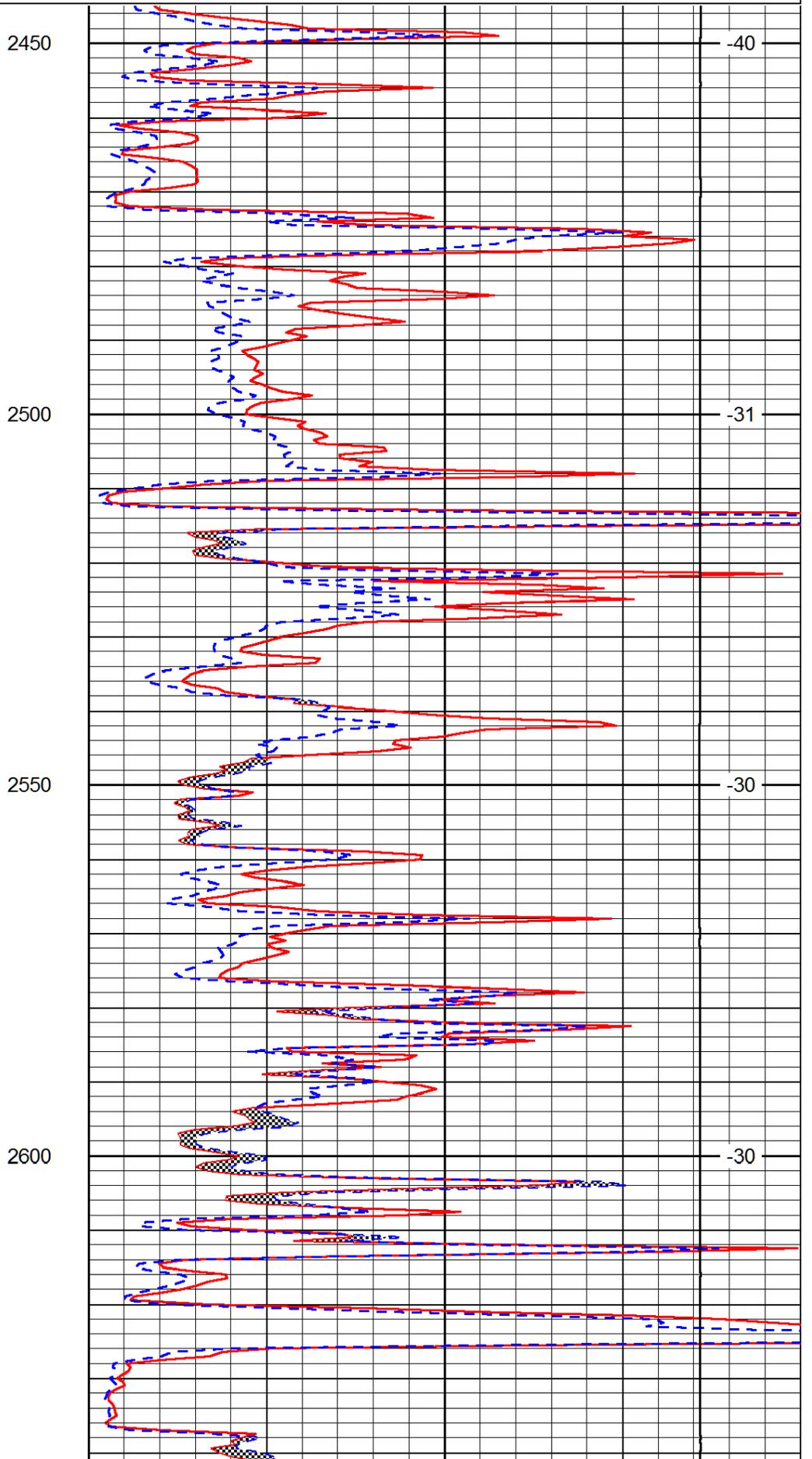
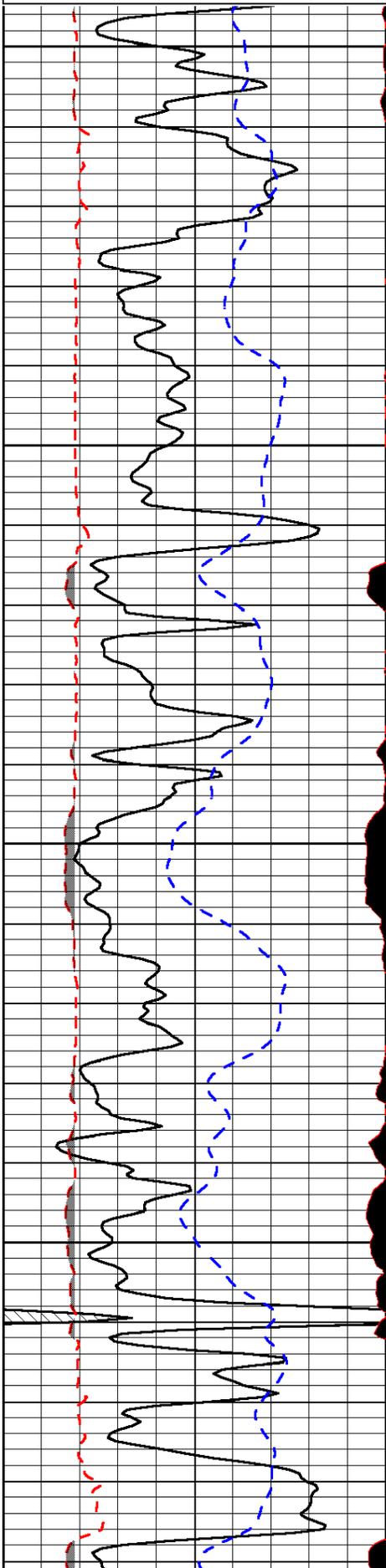
Wilson KS, South to K RD,  
 2 East, 1 1/2 South, East Into

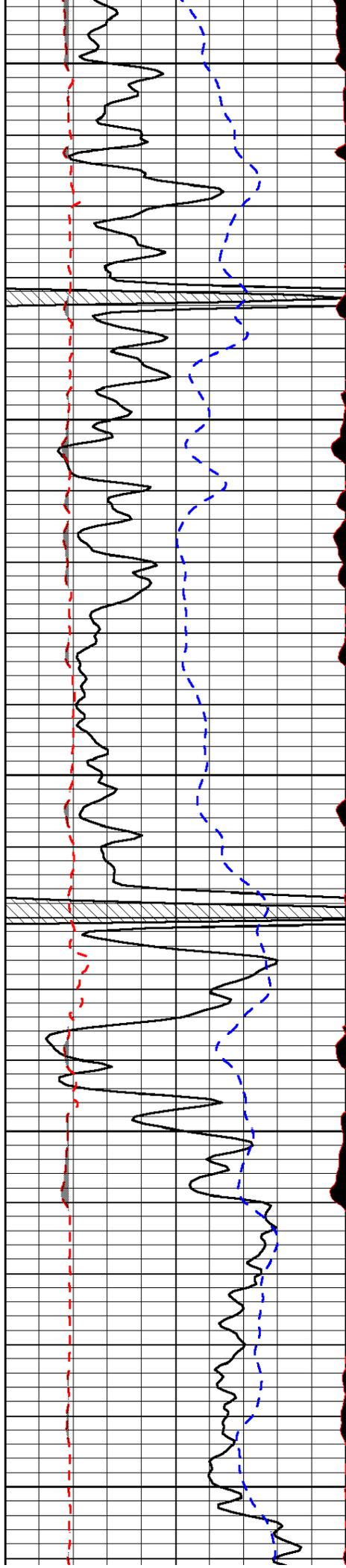
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 Dataset Pathname: RAG/bsrag  
 Presentation Format: micro  
 Dataset Creation: Tue Sep 30 16:29:18 2014  
 Charted by: Depth in Feet scaled 1:240

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

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

LSPD





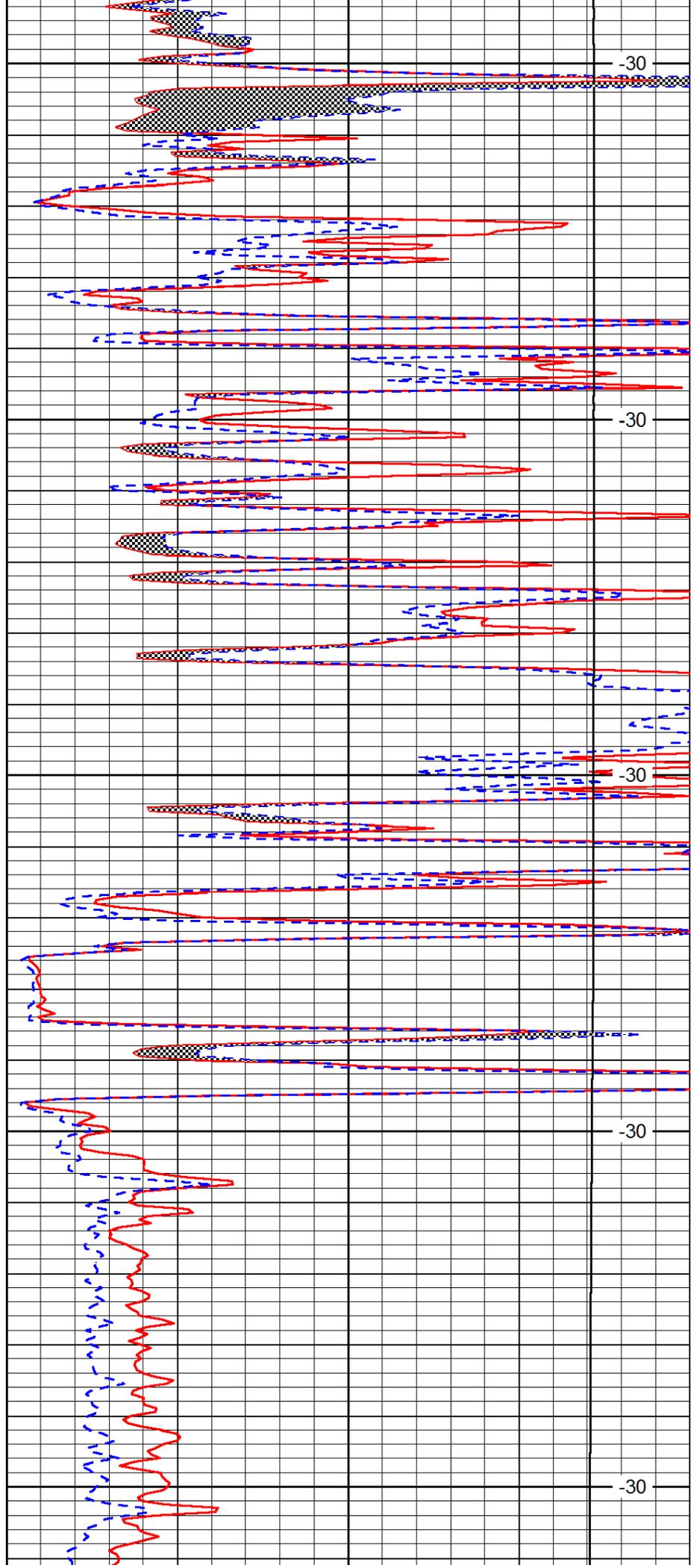
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2700

2750

2800

2850



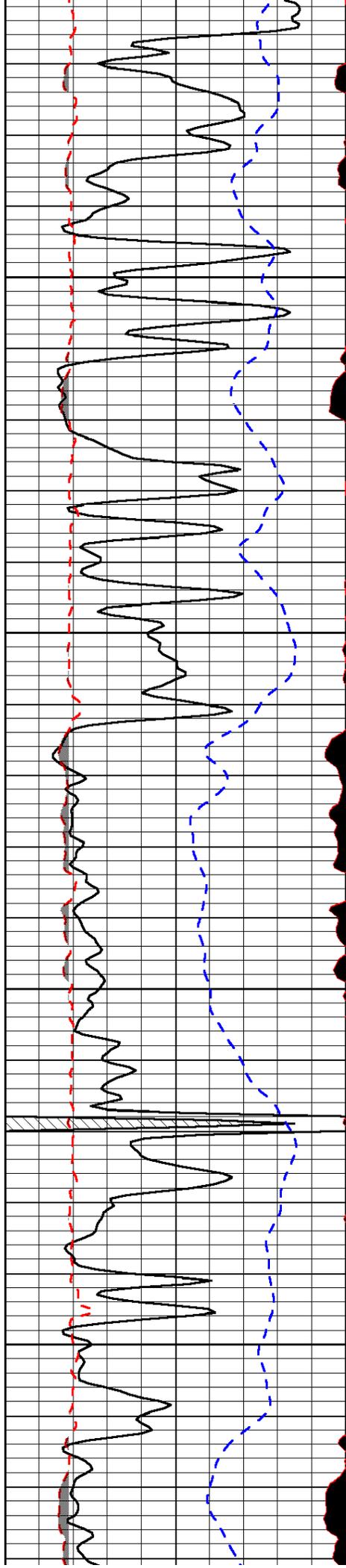
-30

-30

-30

-30

-30

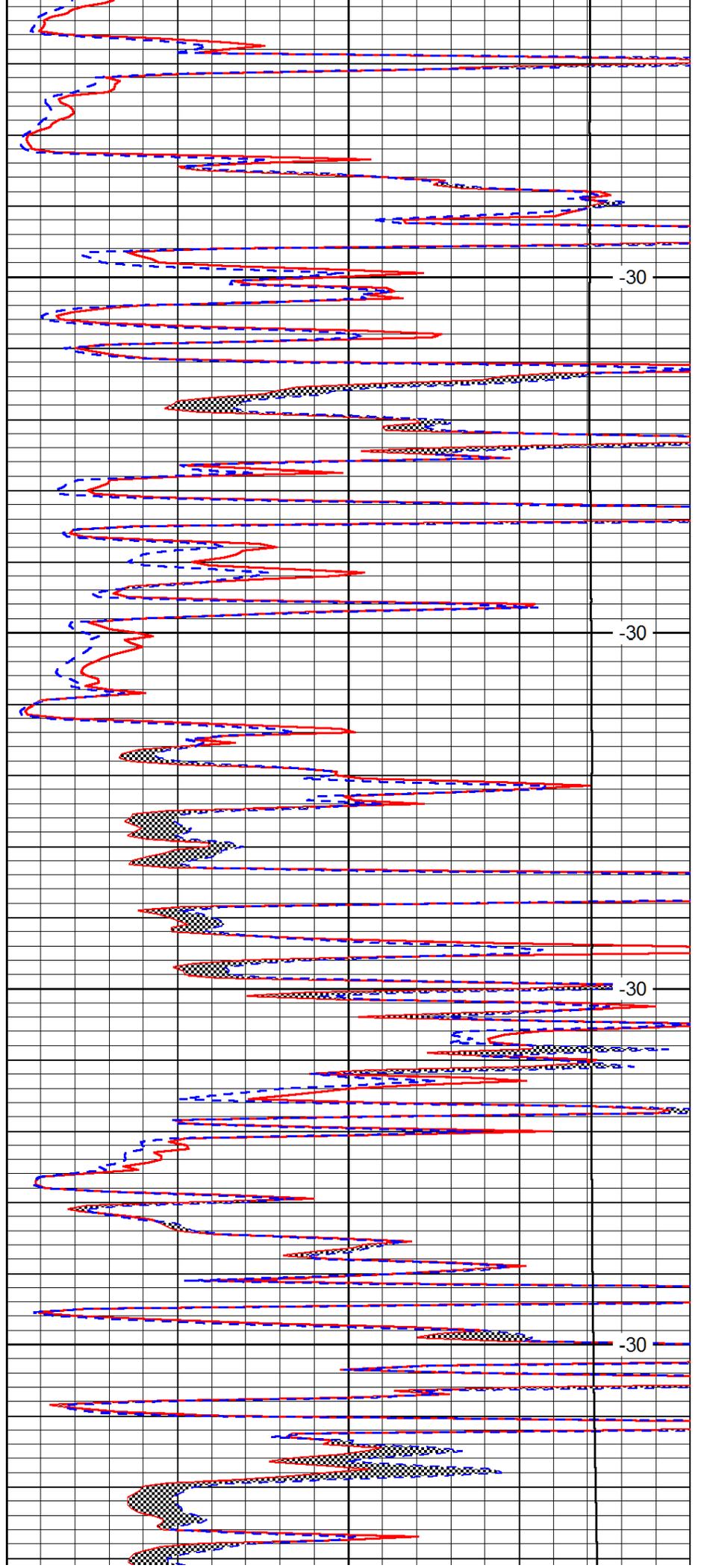


2900

2950

3000

3050

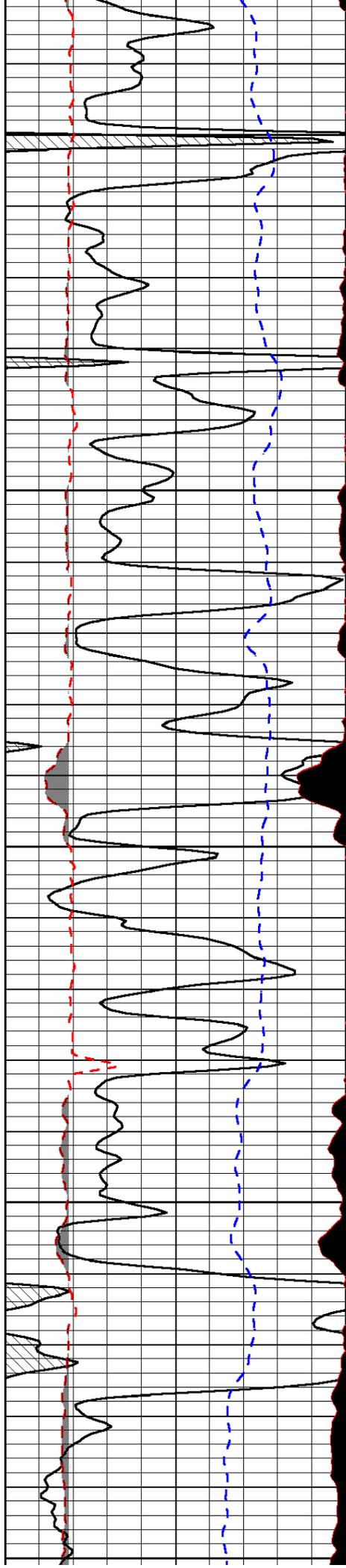


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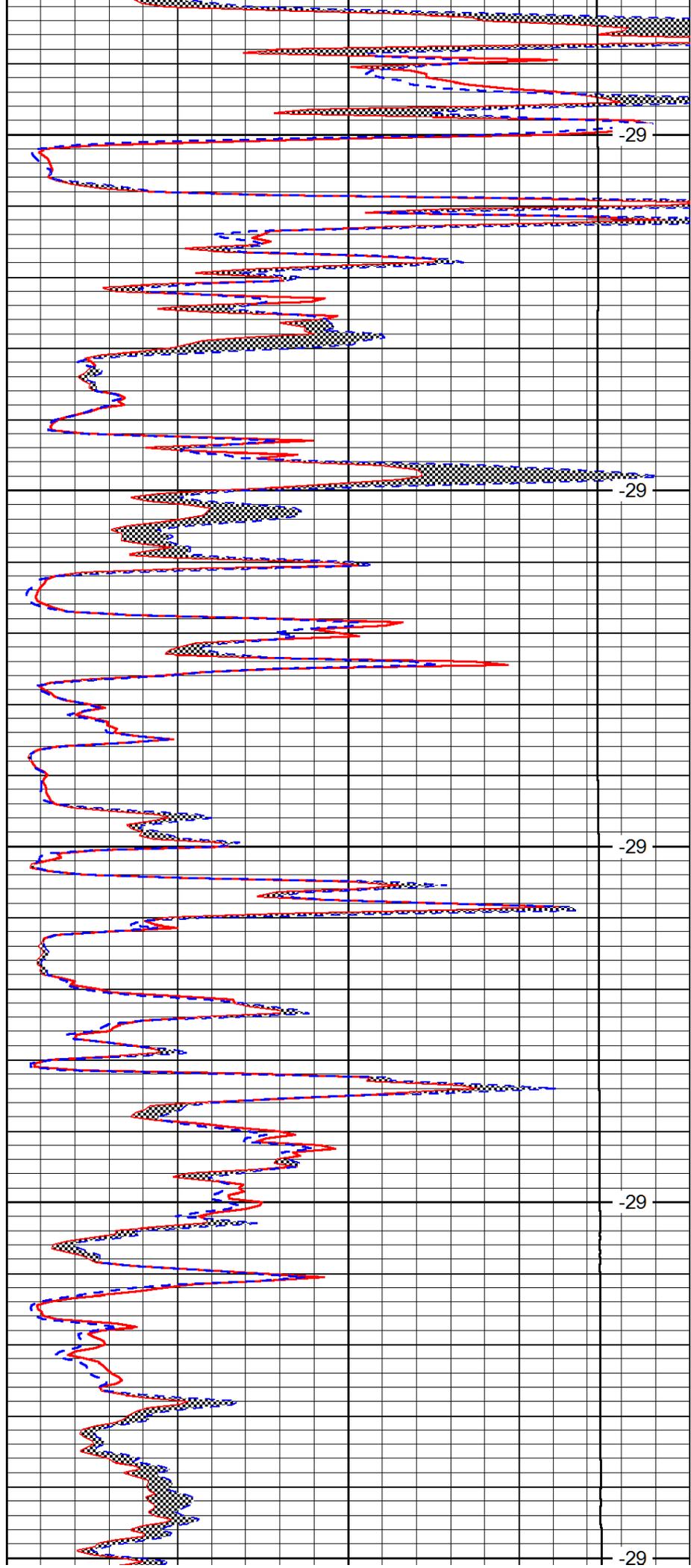
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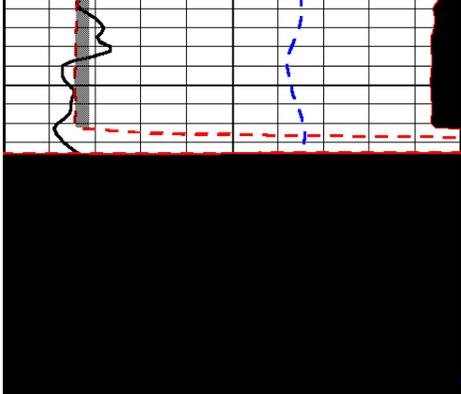
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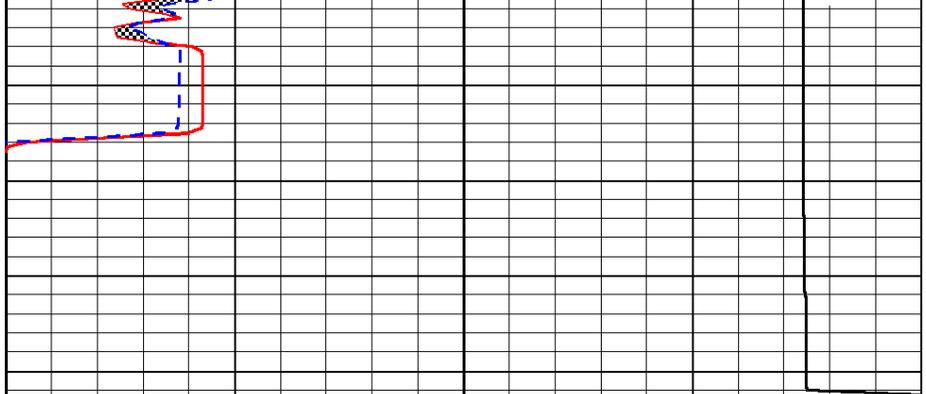
3100  
3150  
3200  
3250  
3300



-29  
-29  
-29  
-29  
-29



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