



Pioneer Energy Services

Microresistivity Log

API No.	15-053-21293-00-00		
Company	American Warrior, Inc.		
Well	White #5-8		
Field	Stoltenberg		
County	Ellsworth	State	Kansas
Location	NW NE SE NW 1490' FNL / 2259' FWL		
Sec: 8	Twp: 16S	Rge: 10W	Other Services CNL / CDL DIL / BHCS
Permanent Datum	Ground Level	Elevation 1848	Elevation
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	K.B. 1856
Drilling Measured From	Kelly Bushing		D.F. 1848
			G.L. 1848

Date	11/23/2013
Run Number	Two
Depth Driller	3600
Depth Logger	3607
Bottom Logged Interval	3606
Top Log Interval	2750
Casing Driller	8.625 @ 374
Casing Logger	366
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	6500
Density / Viscosity	9.3 59
pH / Fluid Loss	11.0 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	0.70 @ 45
Rmf @ Meas. Temp	0.53 @ 45
Rmc @ Meas. Temp	0.95 @ 45
Source of Rmf / Rmc	Charts
Rm @ BHT	0.28 @ 112
Operating Rig Time	4 Hours
Max Rec. Temp. F	112
Equipment Number	17
Location	Hays
Recorded By	R. Barnhart
Witnessed By	Clint Musgrove

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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

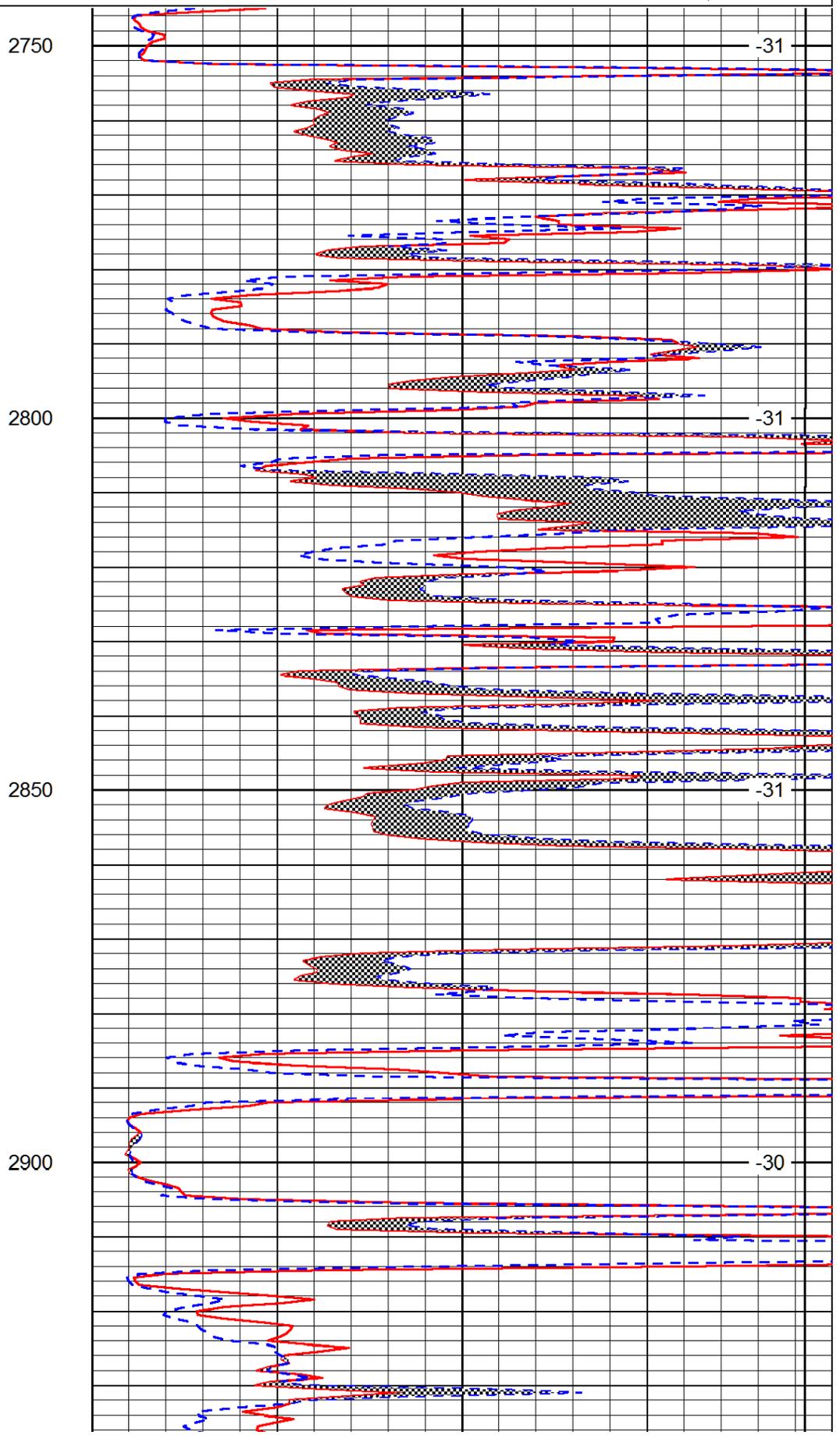
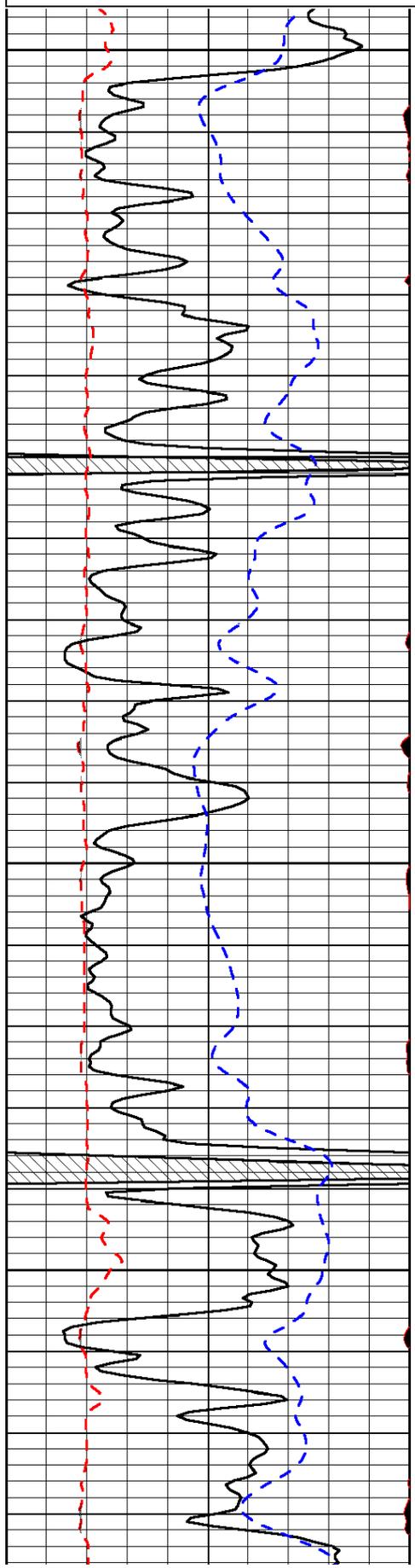
Thank you for using Log-Tech, Inc.
(785) 625-3858

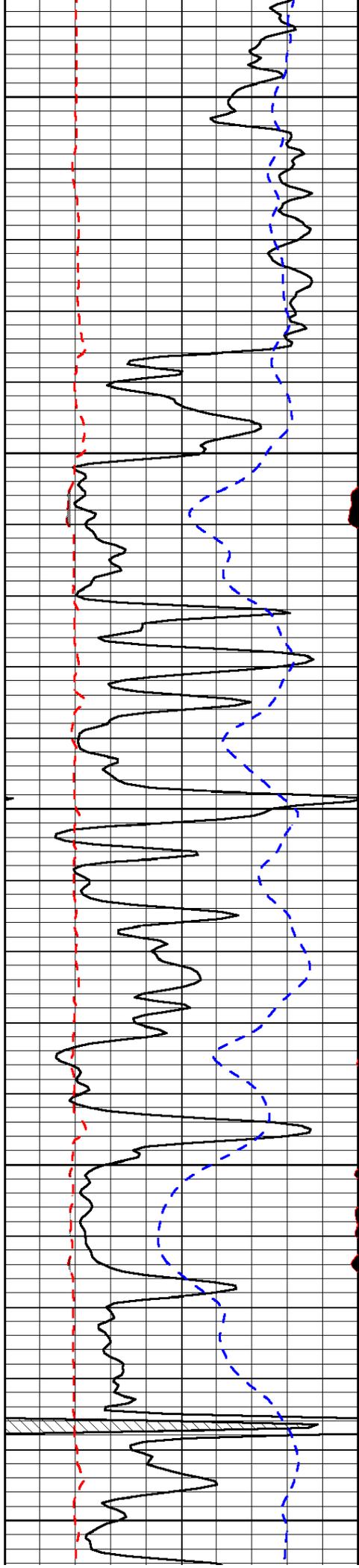
Wilson, KS:
10S, 1 1/2E, S into

Database File: amwar_hd.db
 Dataset Pathname: dil/amwmain
 Presentation Format: micro
 Dataset Creation: Sat Nov 23 00:56:03 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)	





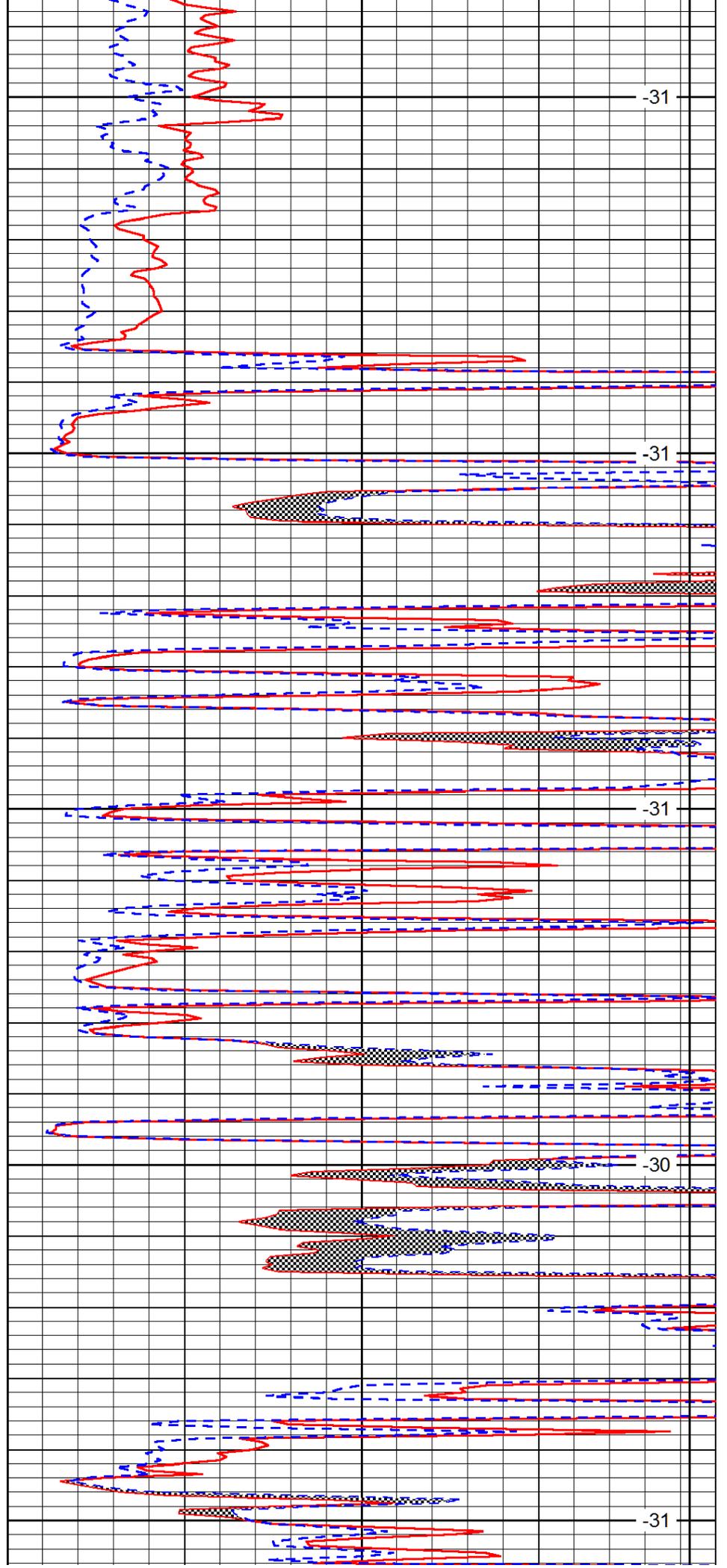
2950

3000

3050

3100

3150



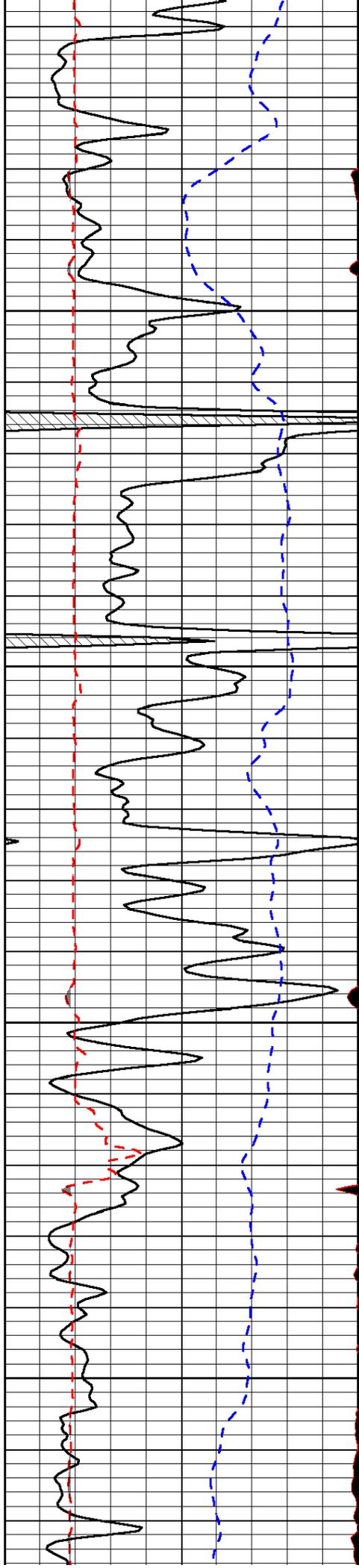
-31

-31

-31

-30

-31

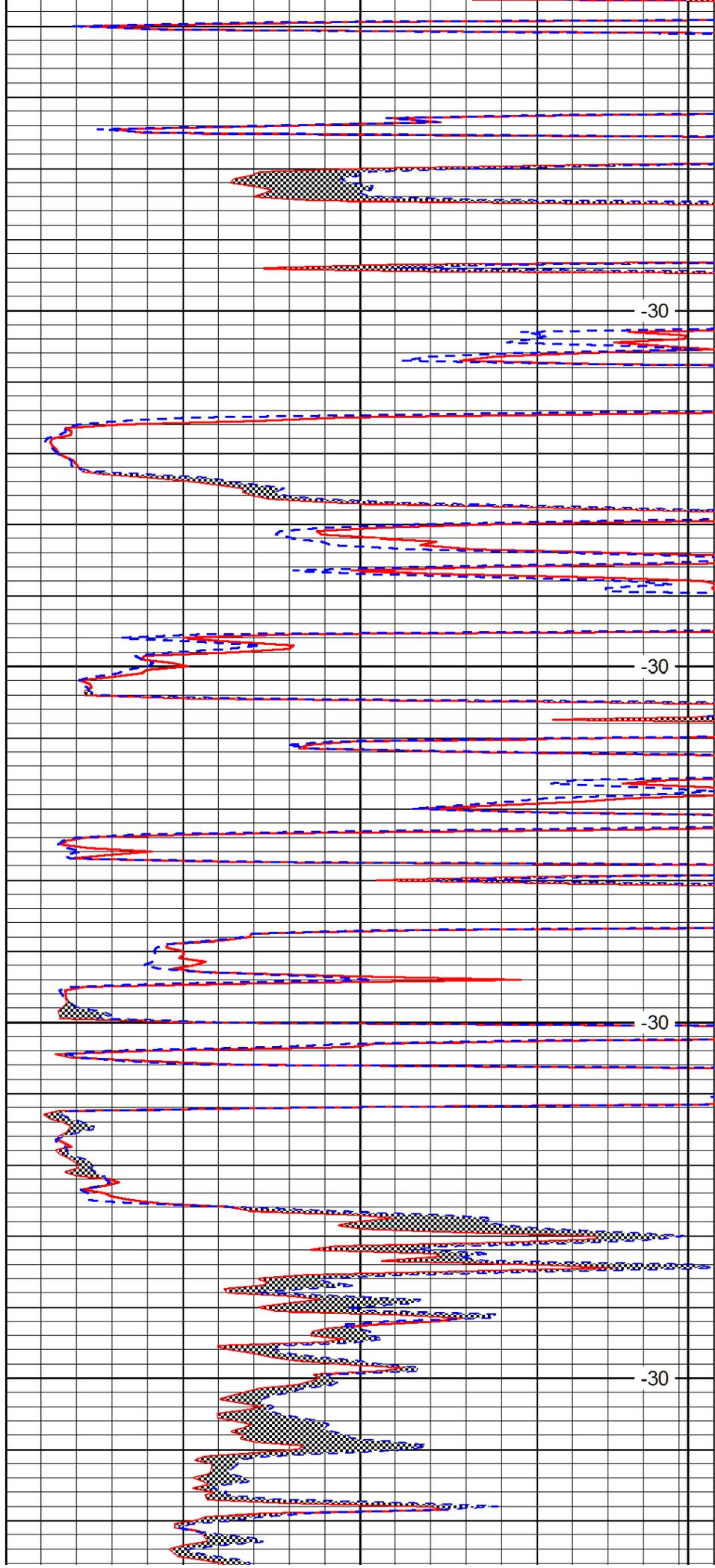


3200

3250

3300

3350

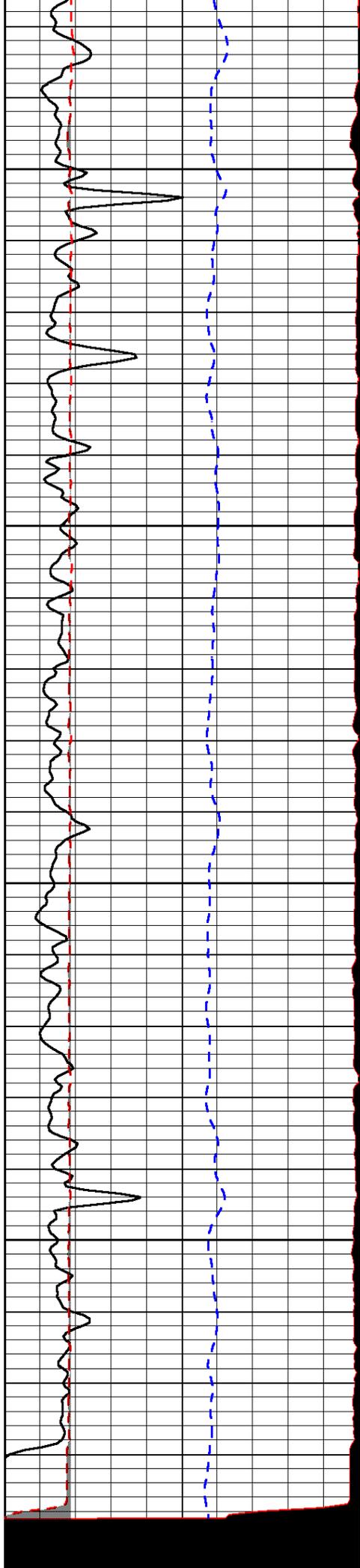


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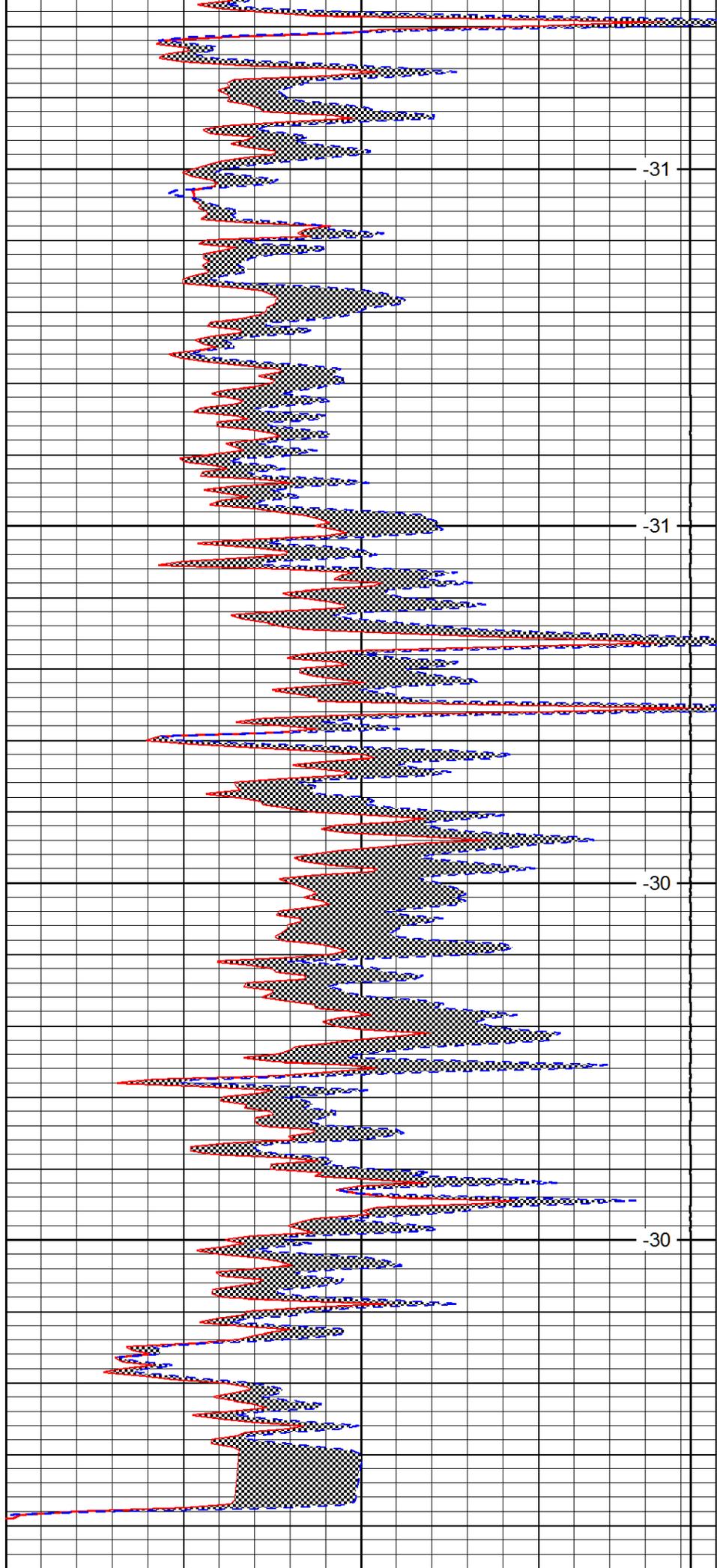


3400

3450

3500

3550



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3600

-30

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