



Pioneer Energy Services

Microresistivity Log

API No.	Company Bach Oil Production				
15-147-20,714-00-00	Well JK Unit # 2				
	Field Woodruff				
	County	Phillips	State	Kansas	
	Location	NW-NE-NW-NW 115' FNL & 700' FWL		Other Services CNL/CDL DIL	
	Sec: 13	Twp: 1S	Rge: 19W	Elevation	
	Permanent Datum	Ground Level	Kelly Bushing	K.B. 2093	
	Log Measured From	Kelly Bushing	5	Ft. Above Perm. Datum	D.F. 2088
	Drilling Measured From	Kelly Bushing		G.L. 2088	
	Date	8/9/2013			
	Run Number	Two			
Depth Driller	3580				
Depth Logger	3578				
Bottom Logged Interval	3577				
Top Log Interval	2950				
Casing Driller	8.625 @ 222				
Casing Logger	220				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	800				
Density / Viscosity	9.2 57				
pH / Fluid Loss	9.0 6.4				
Source of Sample	Flowline				
Rm @ Meas. Temp	1.05 @ 74				
Rmf @ Meas. Temp	.79 @ 74				
Rmc @ Meas. Temp	1.42 @ 74				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.69 @ 112				
Operating Rig Time	3 1/2 Hours				
Max Rec. Temp. F	112				
Equipment Number	15				
Location	Hays				
Recorded By	J. Henrickson				
Witnessed By	Bob Peterson				

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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.

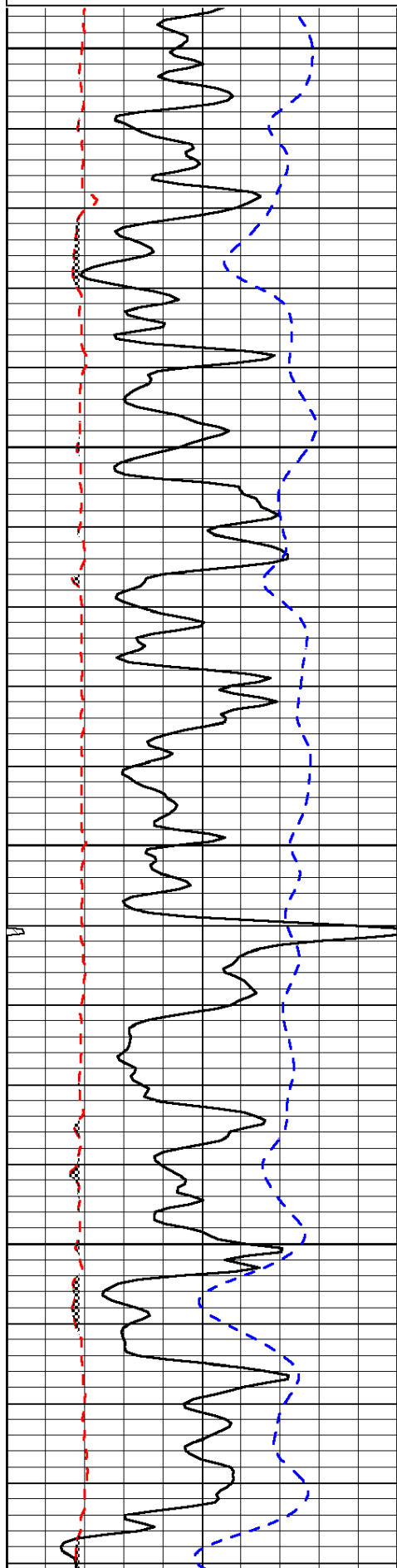
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Phillipsburg Kansas
North to HWY 183 & 83 Jct. West to 500 RD, 1 1/2 South, East Into

Database File: c:\warrior\data\bach_jk unit # 2\bach_jkunit_2hd.db
Dataset Pathname: DIL\bachstk
Presentation Format: micro
Dataset Creation: Fri Aug 09 14:42:40 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

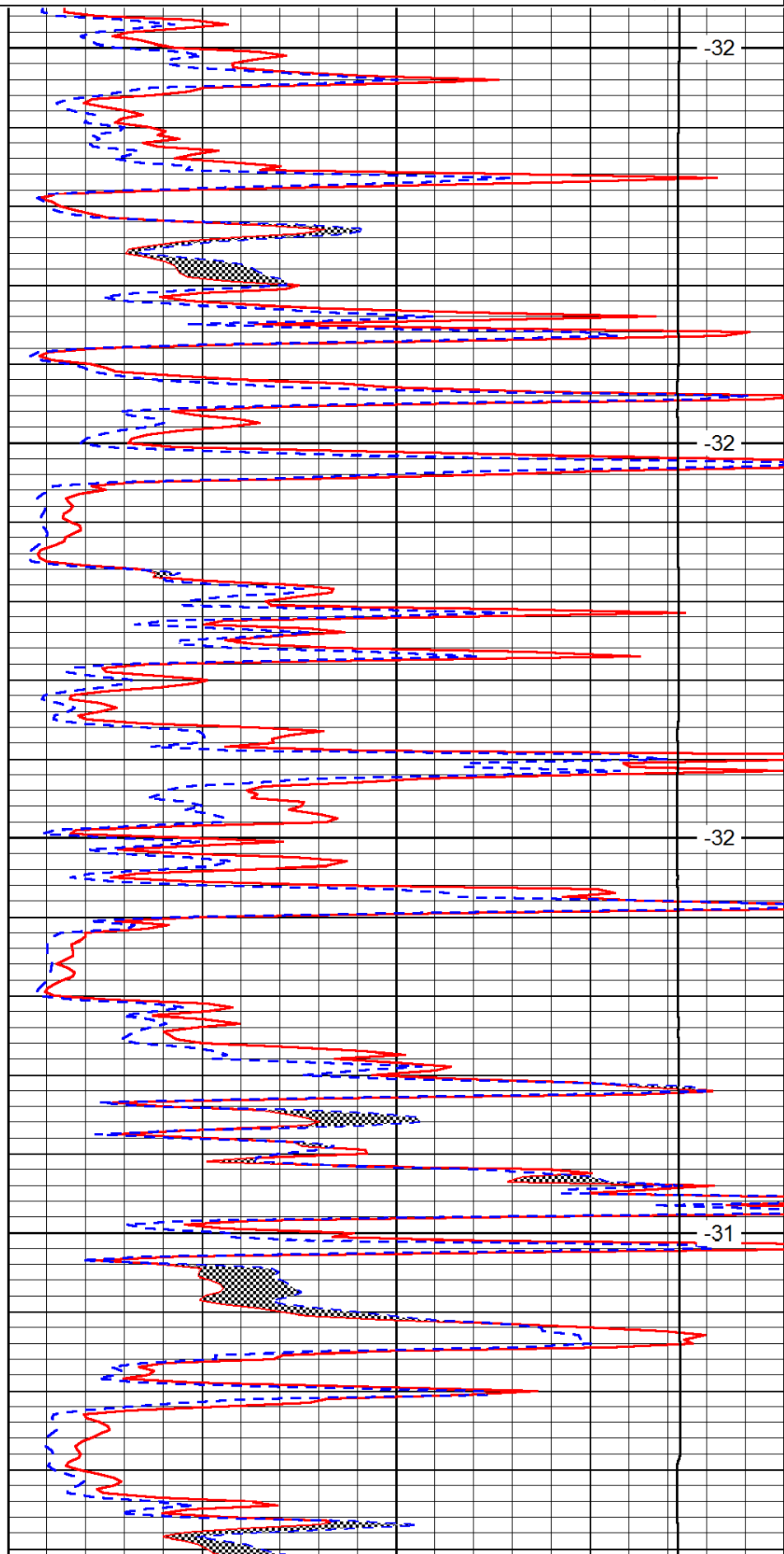


2950

3000

3050

3100



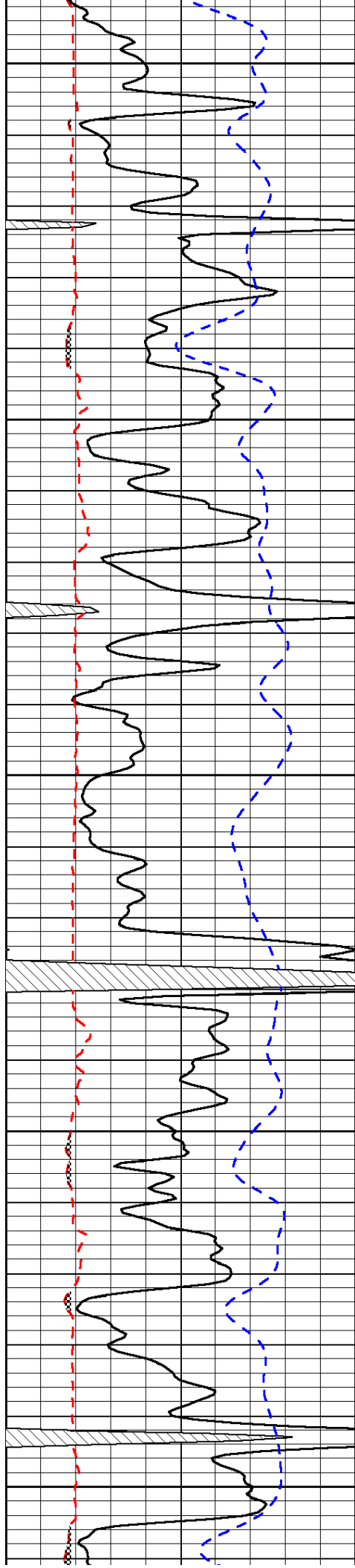
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-32

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-31

LSPD



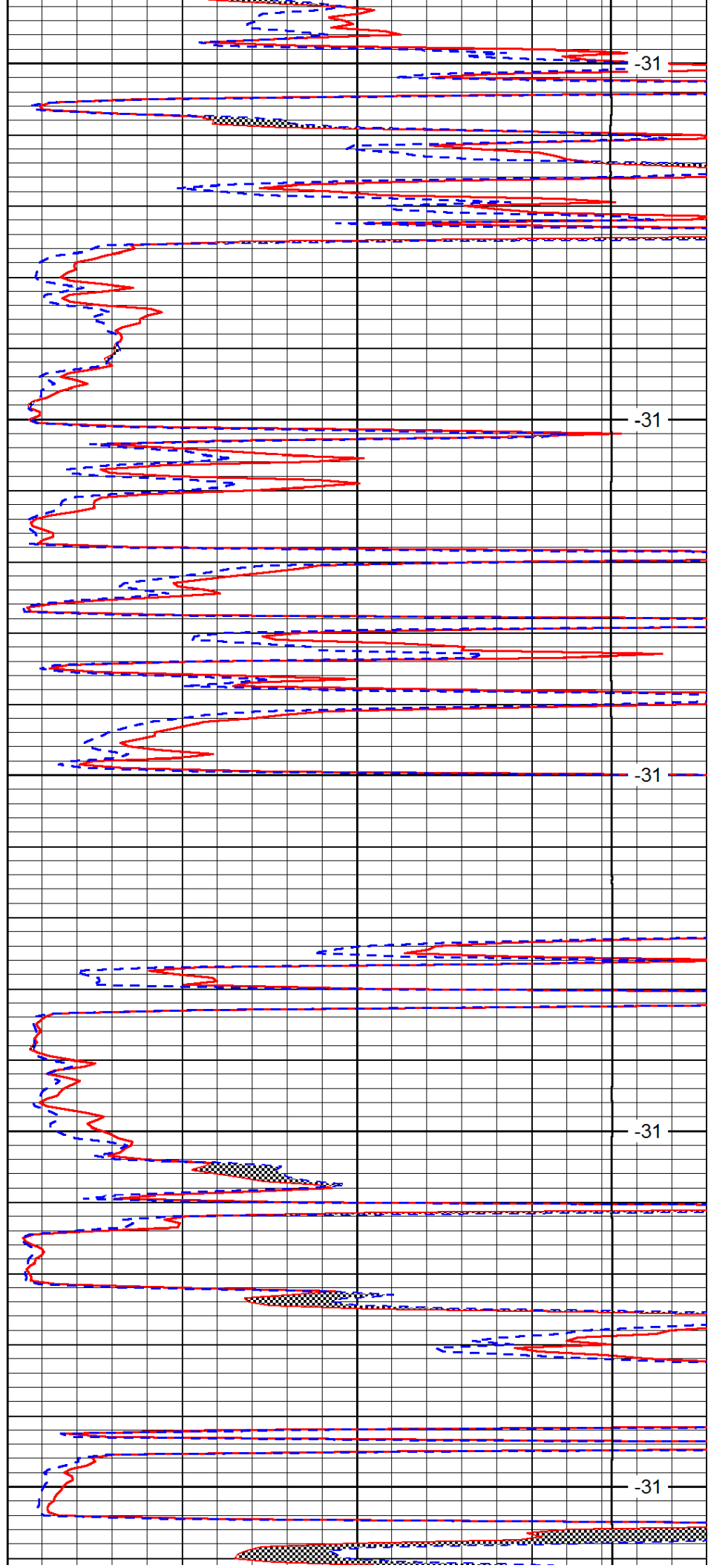
3150

3200

3250

3300

3350



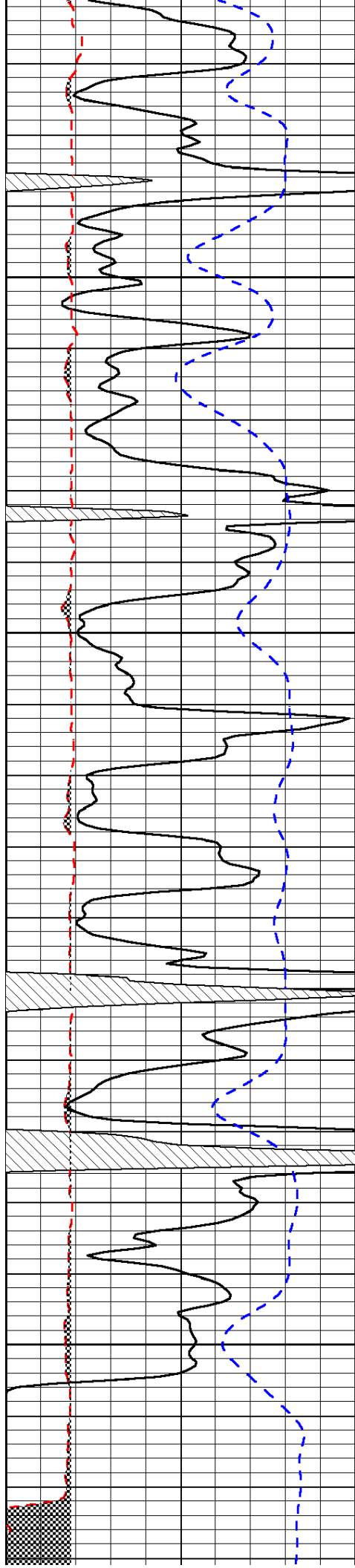
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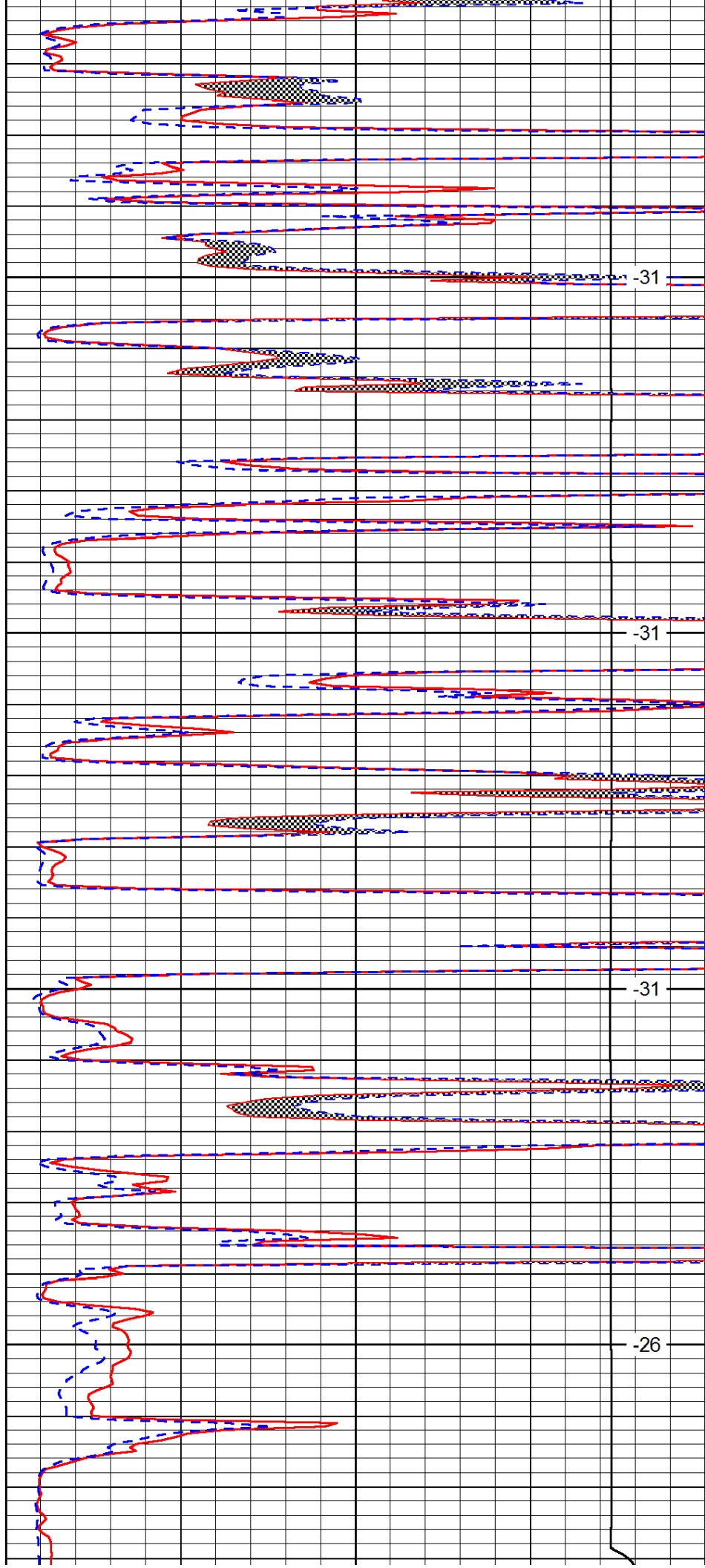


3400

3450

3500

3550



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-26

