



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	15-137-20,511-00-00		
Company	Pioneer Resources		
Well	Kemper No.2		
Field	Ray West		
County	Norton	State	Kansas
Location	NW NE SE SE 1100' FSL & 650' FEL		Other Services CNL/CDL DIL
Sec: 23	Twp: 5S	Rge: 21W	Elevation

Permanent Datum	Ground Level	Elevation 2174	K.B. 2182
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	D.F. 2174
Drilling Measured From	Kelly Bushing		G.L. 2174
Date	12/20/2009		
Run Number	Two		
Depth Driller	3680		
Depth Logger	3670		
Bottom Logged Interval	3669		
Top Log Interval	3050		
Casing Driller	8.625 @ 238		
Casing Logger	238		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2.000		
Density / Viscosity	9.3 50		
pH / Fluid Loss	10.0 7.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	2.2 @ 65		
Rmf @ Meas. Temp	1.65 @ 65		
Rmc @ Meas. Temp	2.97 @ 65		
Source of Rmf / Rmc	Charts		
Rm @ BHT	1.27 @ 113		
Operating Rig Time	3 1/2 Hours		
Max Rec. Temp. F	113		
Equipment Number	15		
Location	Hays		
Recorded By	C. Desaire		
Witnessed By	Randy Kilian		

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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

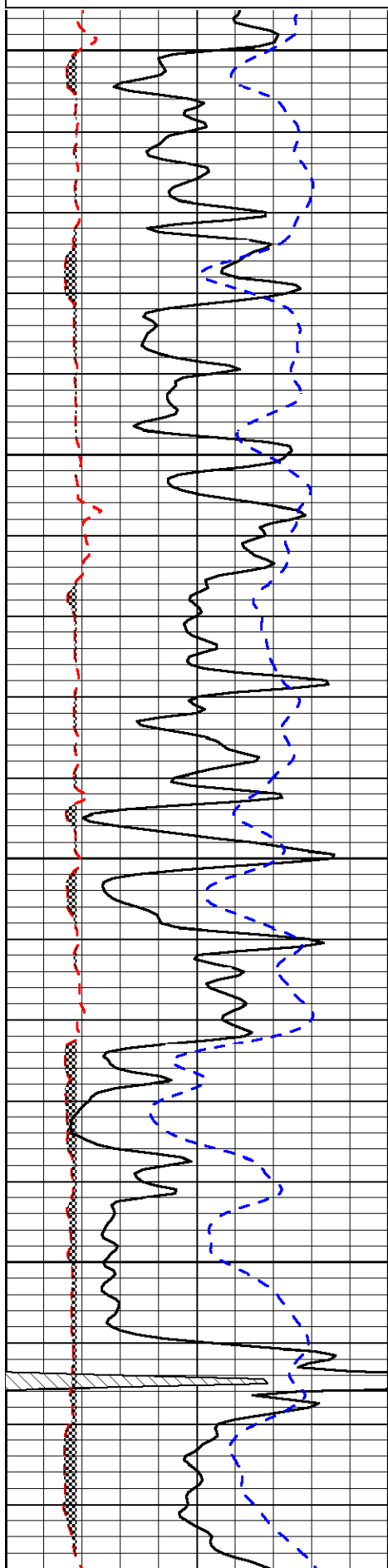
Stockton, N to Cozy Cove Rd,
W to Logan Rd, 1 S to Day Dream Rd,
4 W to 13 Rd, 3/4 N, W Into

Database File: c:\warrior\data\pioneer res_kemper no.2\pioneerhd.db
Dataset Pathname: dil\pnrstk
Presentation Format: micro
Dataset Creation: Sun Dec 20 20:47:11 2009
Charted by: Depth in Feet scaled 1:240

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

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
15000	Line Weight (lb)	0

LSPD
(ft/min)

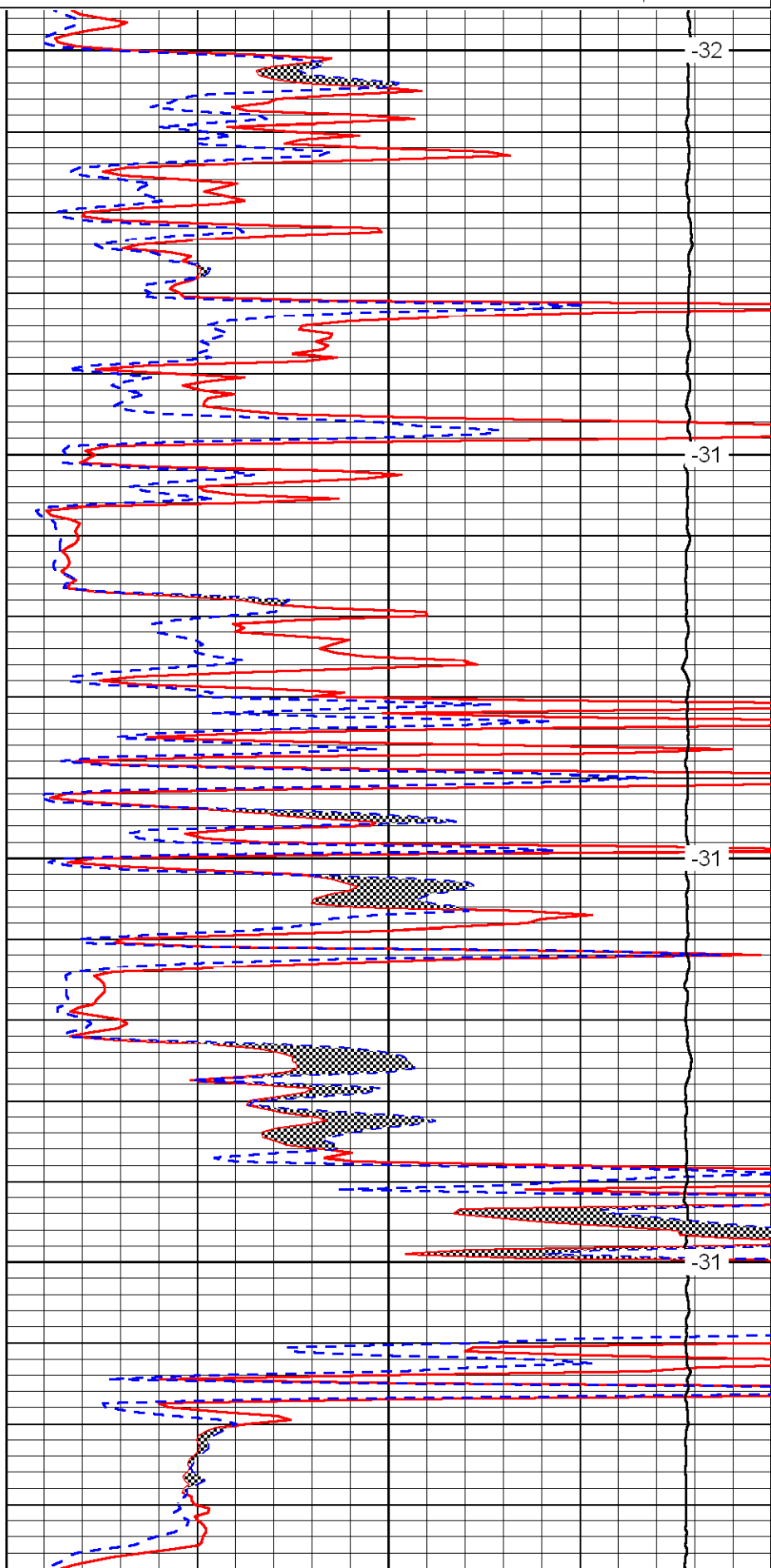


3050

3100

3150

3200

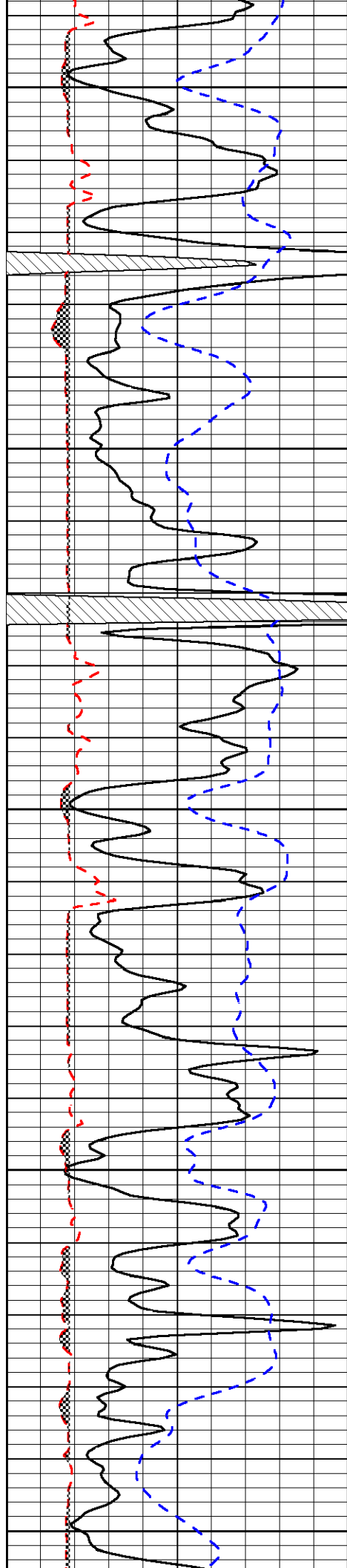


32

31

31

31



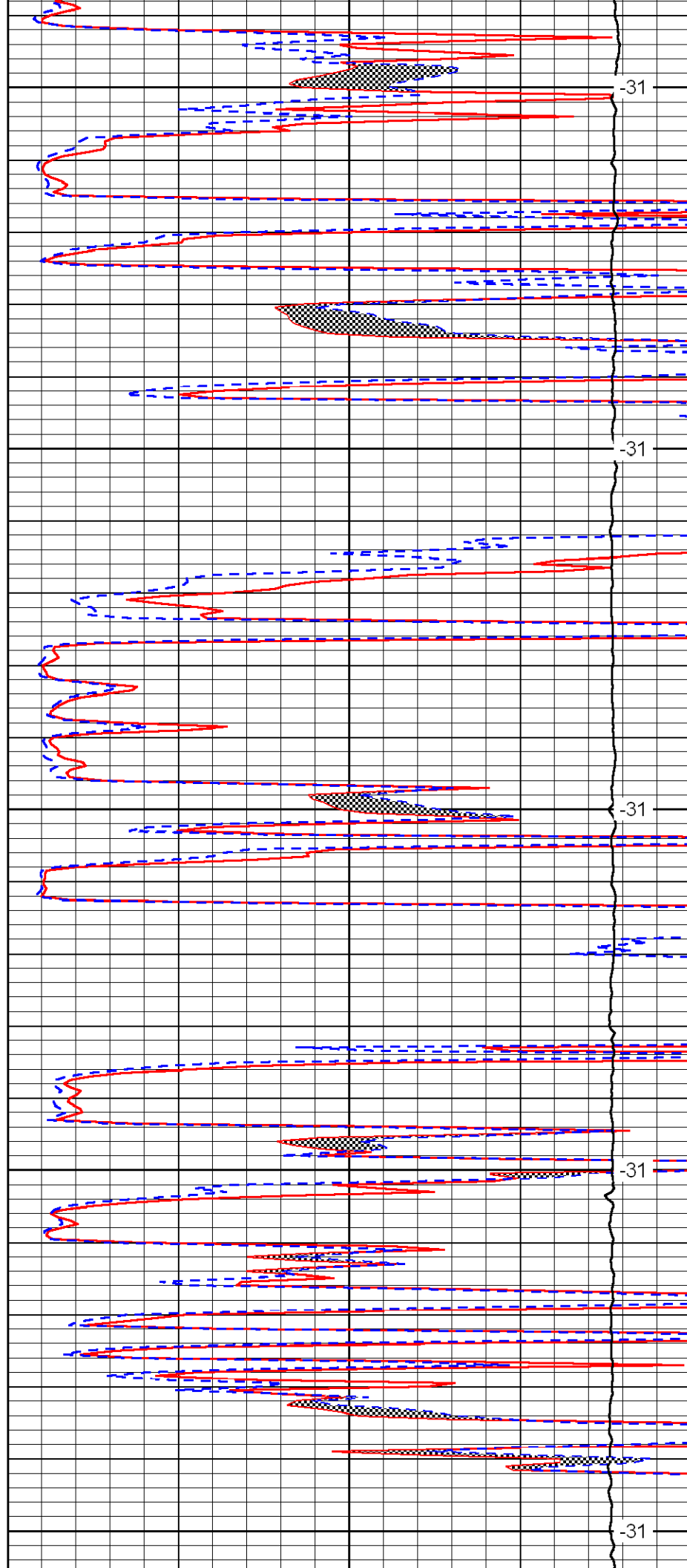
3250

3300

3350

3400

3450



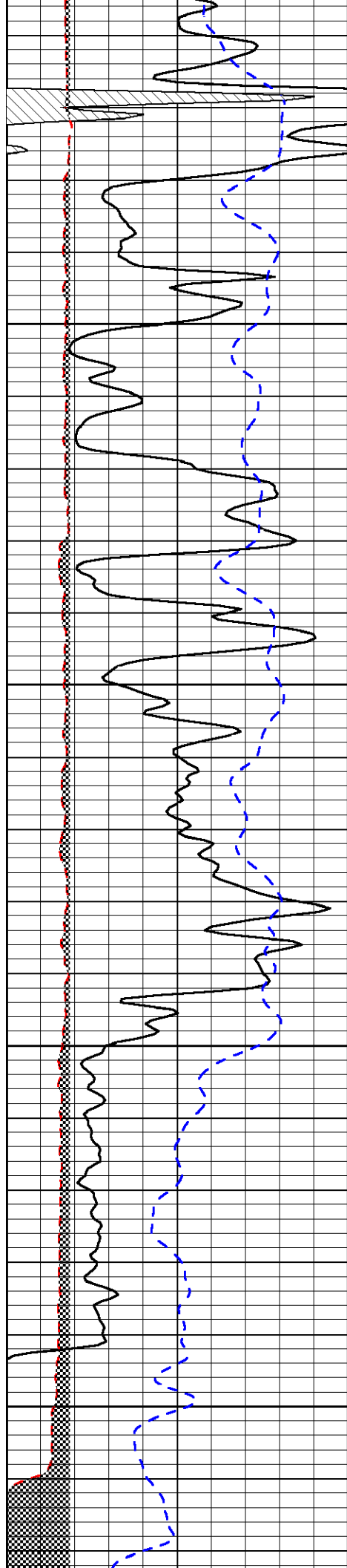
-31

-31

-31

-31

-31

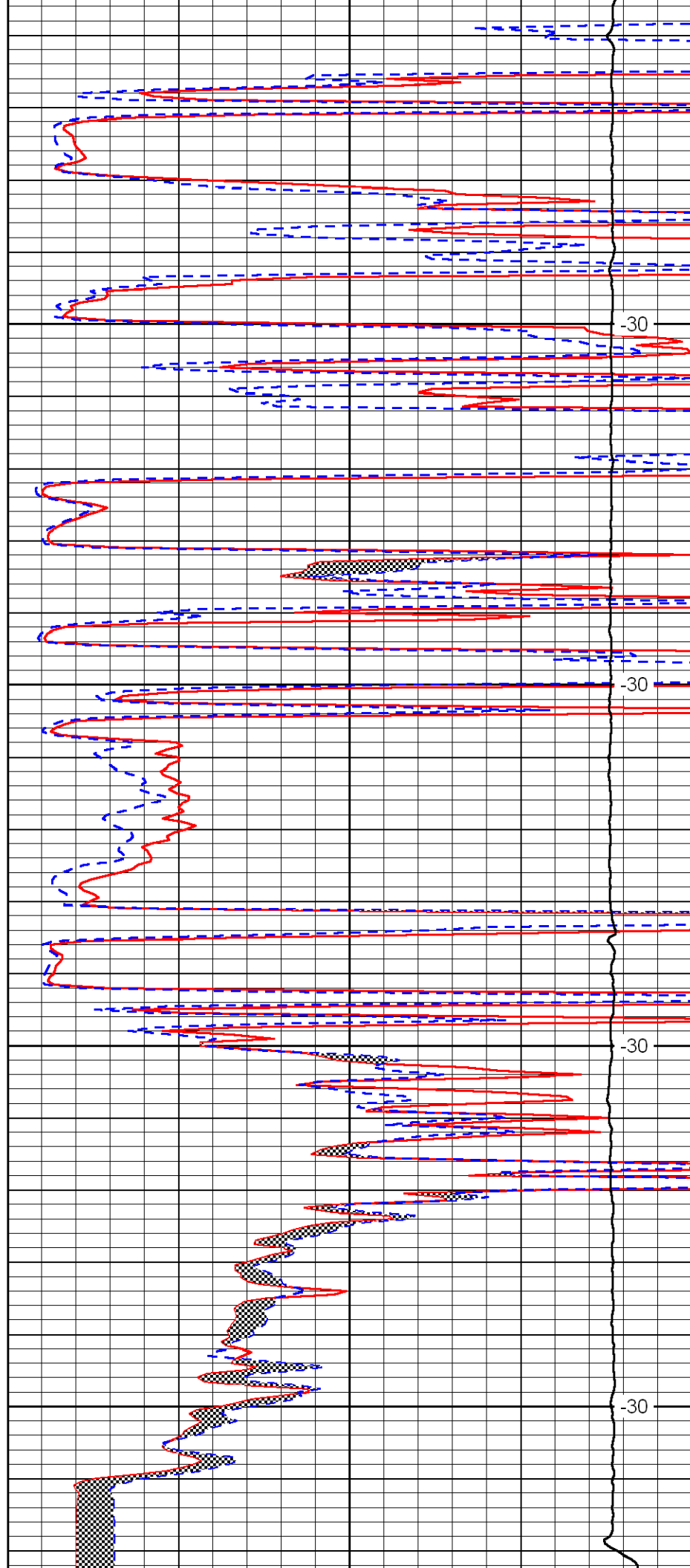


3500

3550

3600

3650



-30

-30

-30

-30

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