



Pioneer Energy Services

Microresistivity Log

API No.	Company Mausau Development Corporation				
	Well Hammeke #1				
	Field				
	County	Pawnee	State	Kansas	
15-145-21,767-00-00	Location	1980' FNL & 3300' FEL			Other Services CNL/CDL DIL/BHCS
	Sec: 23	Twp: 23S	Rge: 17W		
	Permanent Datum	Ground Level	Elevation 2078		Elevation
Log Measured From	Kelly Bushing	7	Ft. Above Perm. Datum	K.B. 2085	
Drilling Measured From	Kelly Bushing				D.F. 2078
Date	7/13/2014				G.L. 2078
Run Number	Two				
Depth Driller	4320				
Depth Logger	4323				
Bottom Logged Interval	4322				
Top Log Interval	3400				
Casing Driller	8.625 @ 285				
Casing Logger	285				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	6,500				
Density / Viscosity	8.9	53			
pH / Fluid Loss	10.0	12.0			
Source of Sample	Flowline				
Rm @ Meas. Temp	.54 @ 82				
Rmf @ Meas. Temp	.41 @ 82				
Rmc @ Meas. Temp	.73 @ 82				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.37 @ 119				
Operating Rig Time	4 1/2 Hours				
Max Rec. Temp. F	119				
Equipment Number	17				
Location	Hays				
Recorded By	C. Desaire				
Witnessed By	Steve VanBuskirk	Nash Evans			Lavon Evans

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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.

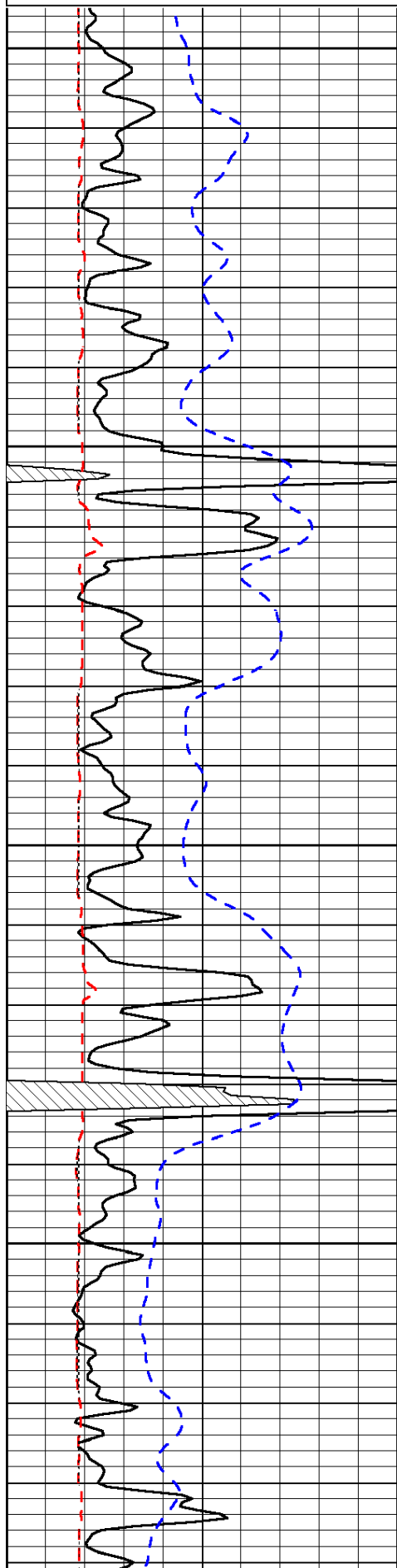
Comments

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

Zook KS, 1 S,
4 W, 1/2 S, E Into

Database File: c:\warrior\data\mausau development_hammeke #1\wauhd.db
Dataset Pathname: dil\waustk
Presentation Format: micro
Dataset Creation: Sun Jul 13 16:08:58 2014
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



3400

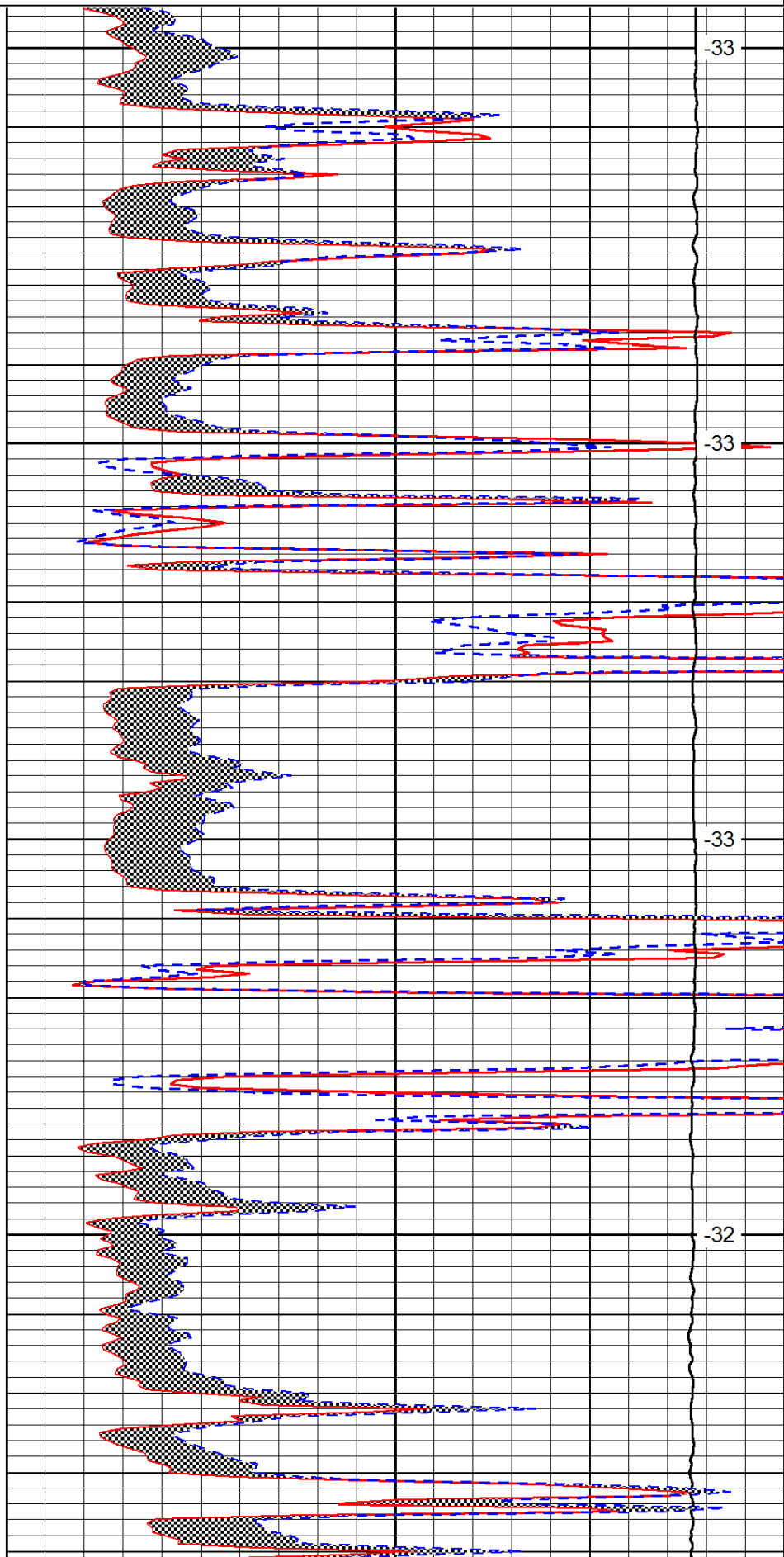
3450

3500

3550

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD

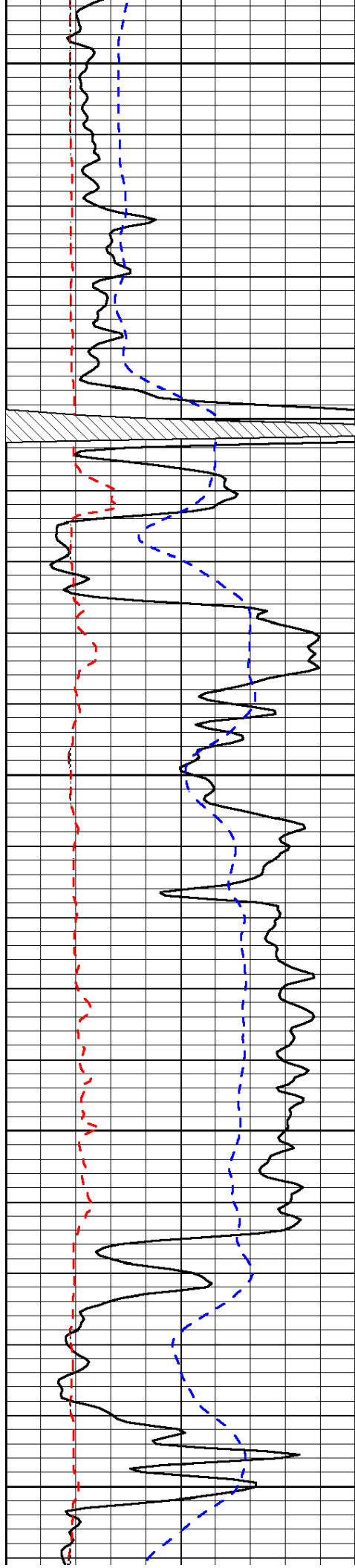


-33

-33

-33

-32



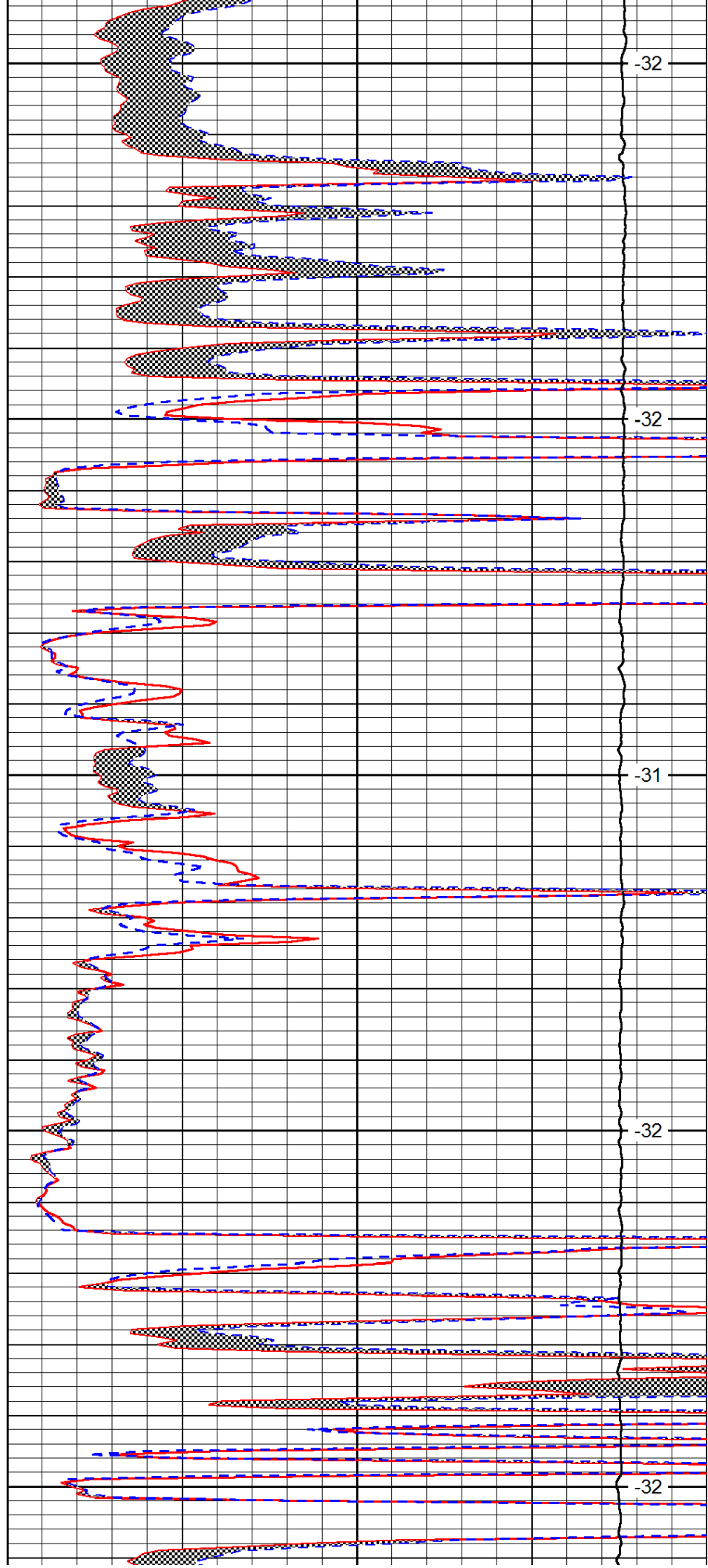
3600

3650

3700

3750

3800



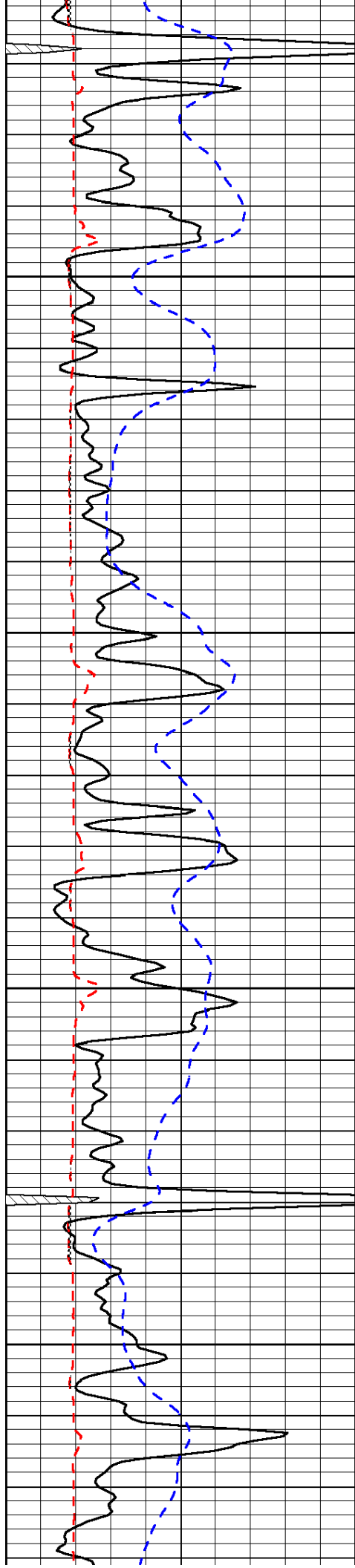
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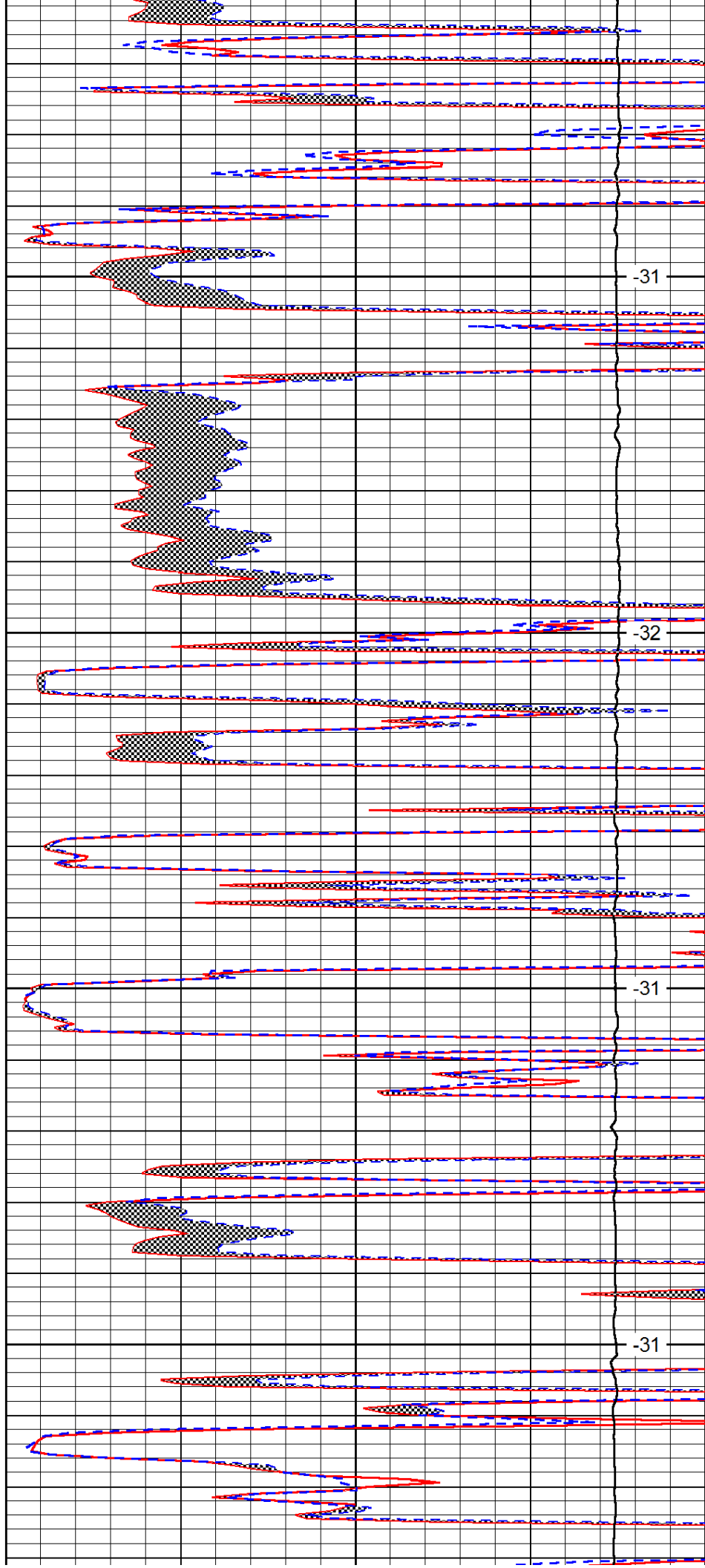


3850

3900

3950

4000

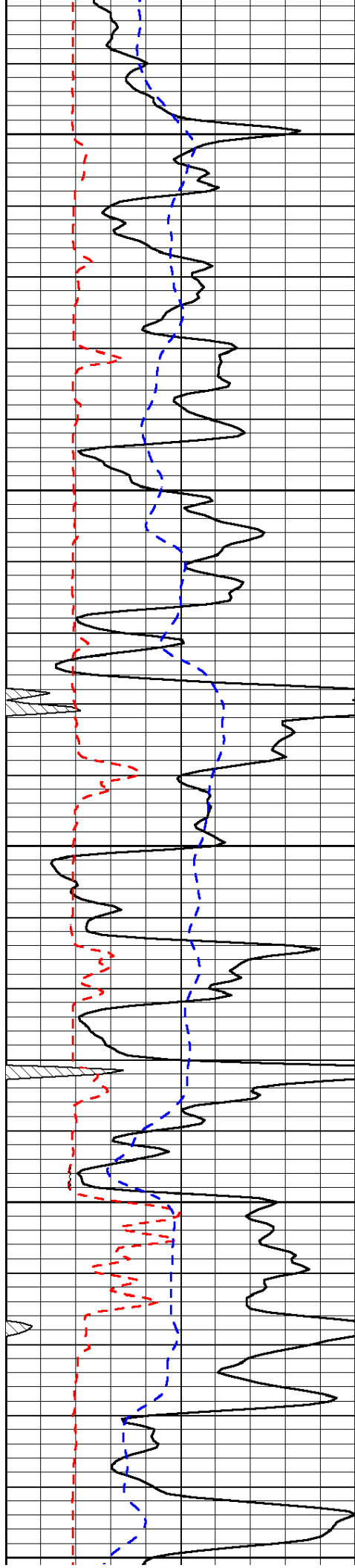


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4050

4100

4150

4200

4250

