



Pioneer Energy Services

Microresistivity Log

API No.	Company Landmark Resources, Inc.				
	Well Frick #1-5				
	Field Wildcat				
	County	Scott	State	Kansas	
15-171-21,050-00-00	Location	2280' FNL & 1469' FWL			Other Services CNL/CDL DIL/BHCS
	Sec: 5	Twp: 17S	Rge: 33W	Elevation K.B. 3091 D.F. 3080 G.L. 3080	
Permanent Datum	Ground Level	Elevation 3080			
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum			
Drilling Measured From	Kelly Bushing				
Date	4/17/2014				
Run Number	Two				
Depth Driller	4820				
Depth Logger	4820				
Bottom Logged Interval	4819				
Top Log Interval	3500				
Casing Driller	8.625 @ 264				
Casing Logger	266				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	4.500				
Density / Viscosity	9.5	57			
pH / Fluid Loss	10.5	8.8			
Source of Sample	Flowline				
Rm @ Meas. Temp	.4 @ 55				
Rmf @ Meas. Temp	.3 @ 55				
Rmc @ Meas. Temp	.54 @ 55				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.18 @ 124				
Operating Rig Time	5 Hours				
Max Rec. Temp. F	124				
Equipment Number	17				
Location	Hays				
Recorded By	C. Desaire				
Witnessed By	Terry McLeod				

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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.

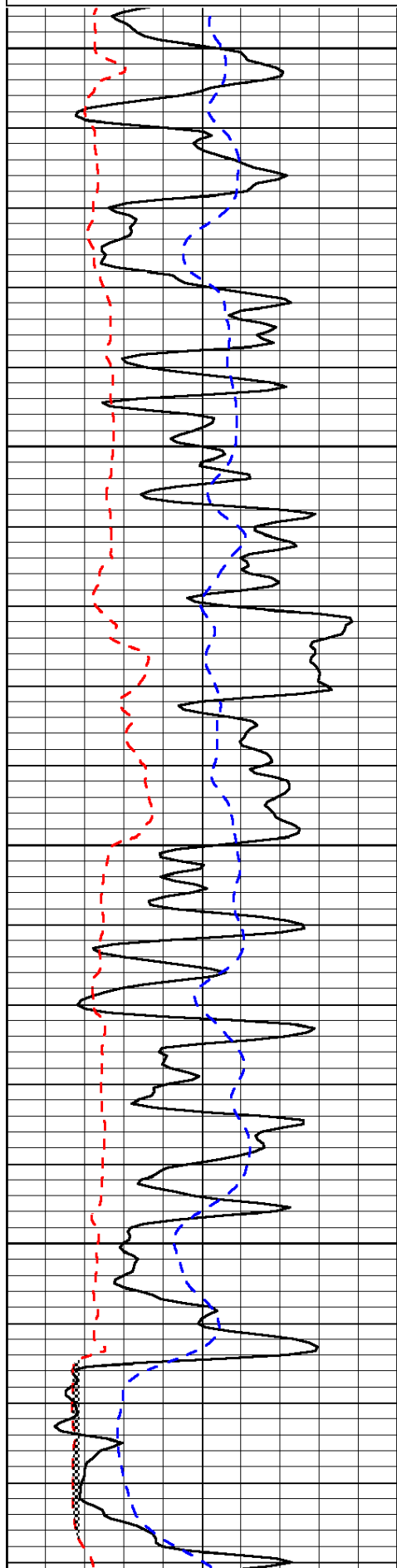
Comments

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

Oakley KS, S on Hwy 183 to Hwy 4,
4 W, 1 N, 3/4 W, S Into

Database File: c:\warrior\data\landmark_frick #1-5\lmhd.db
Dataset Pathname: dil\lmstk
Presentation Format: micro
Dataset Creation: Thu Apr 17 08:47:06 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



3500

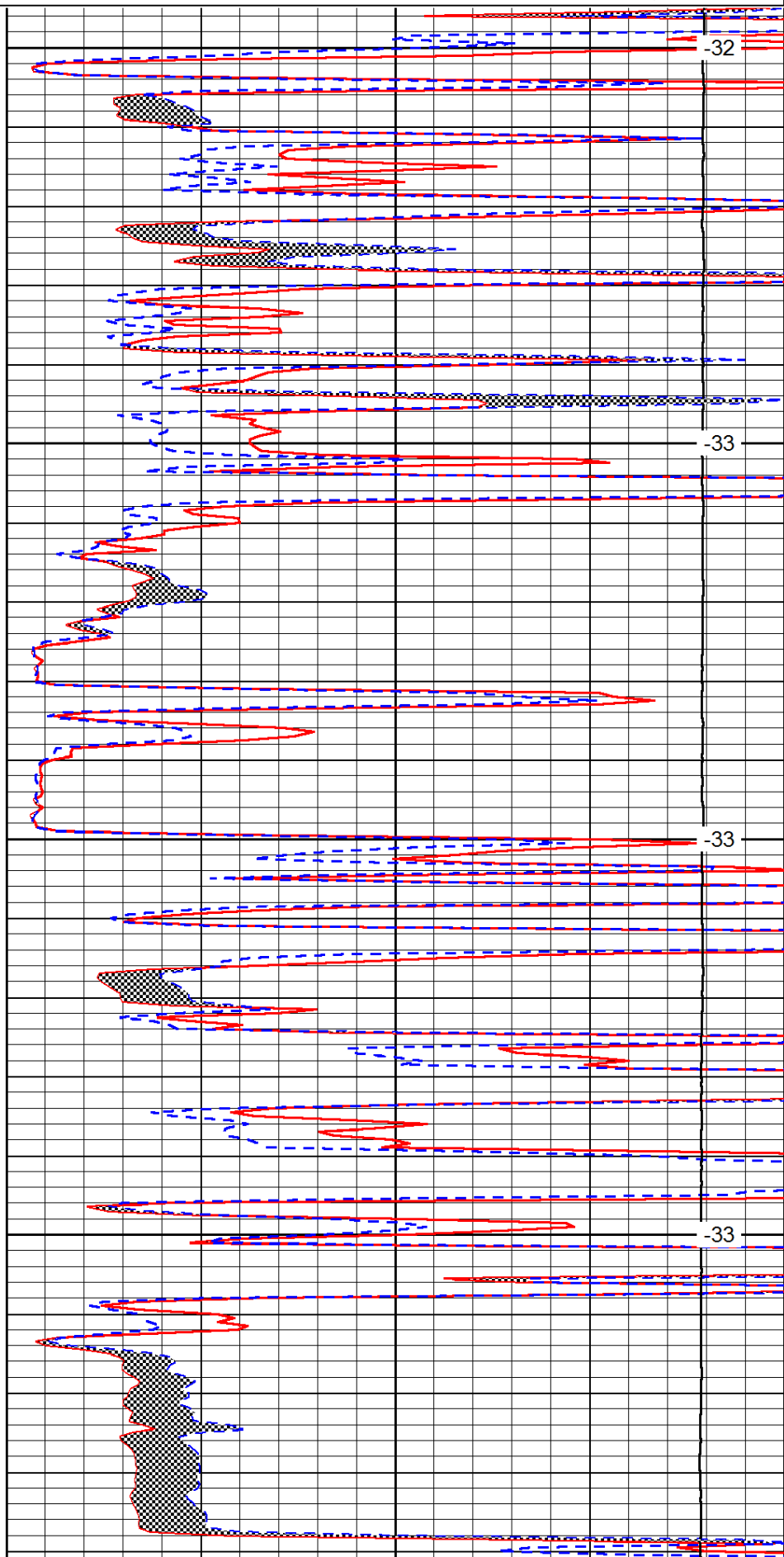
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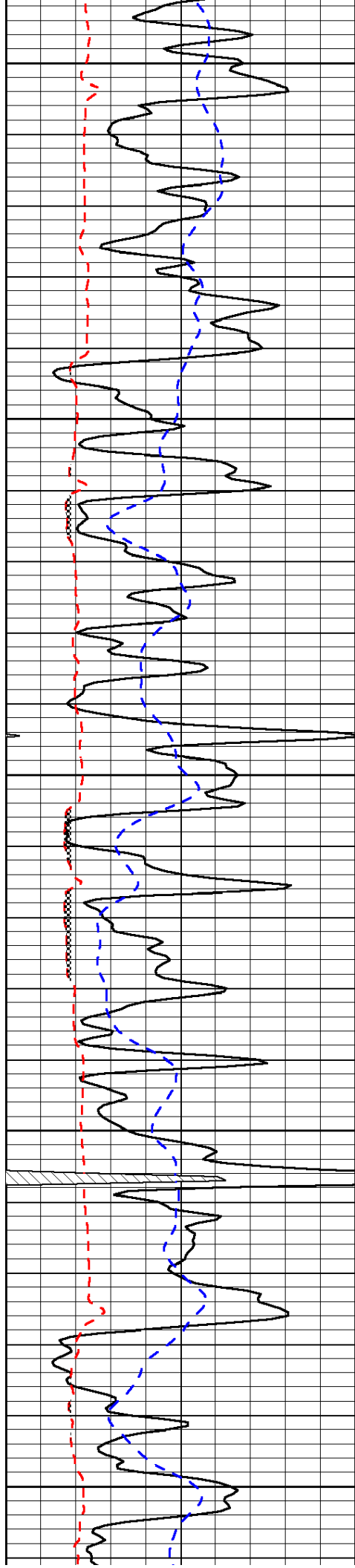
3600

3650

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

LSPD





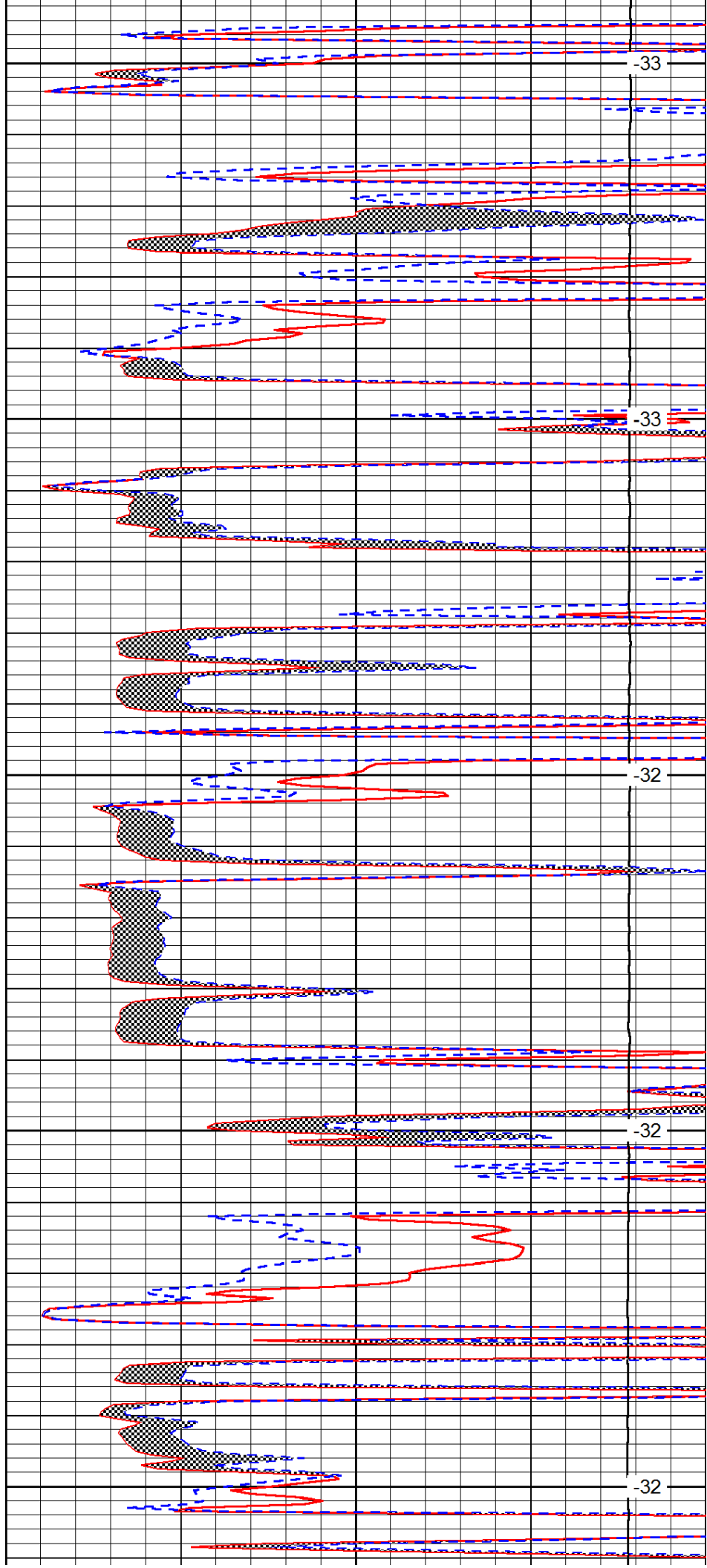
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3750

3800

3850

3900



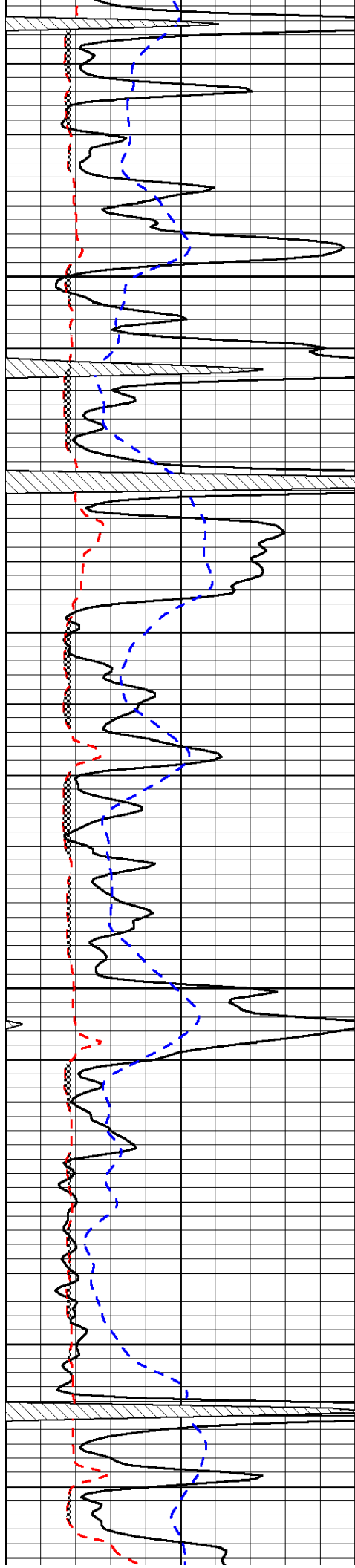
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-33

-32

-32

-32

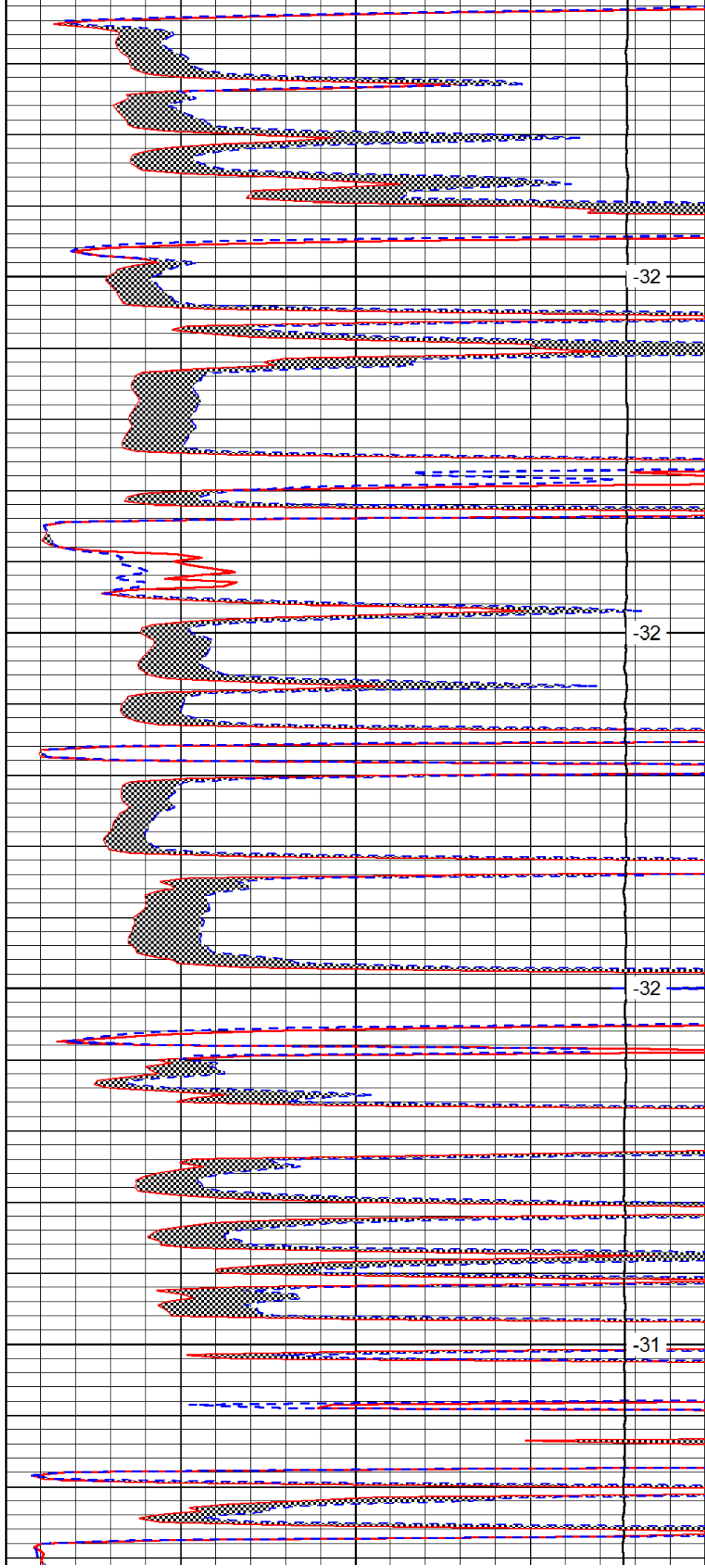


3950

4000

4050

4100

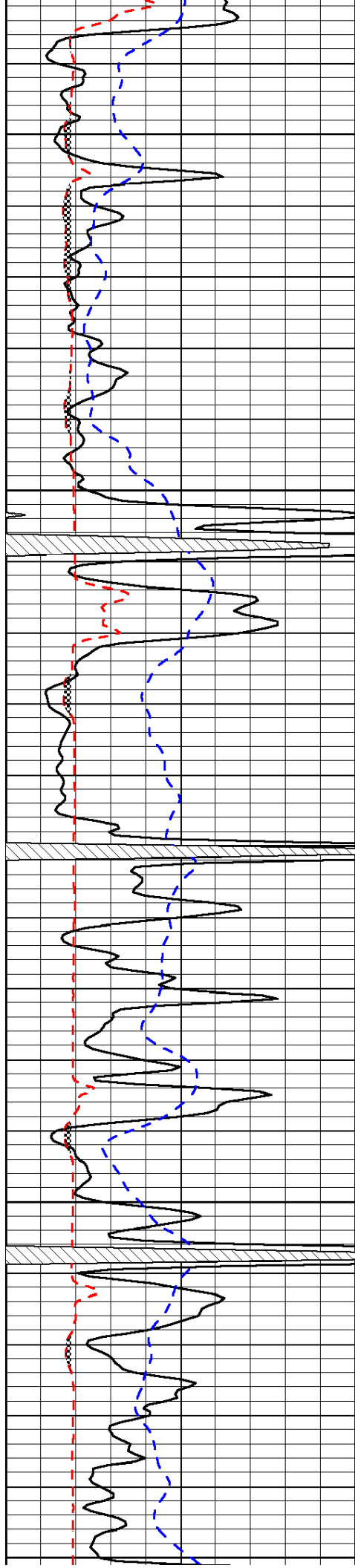


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-32

-31



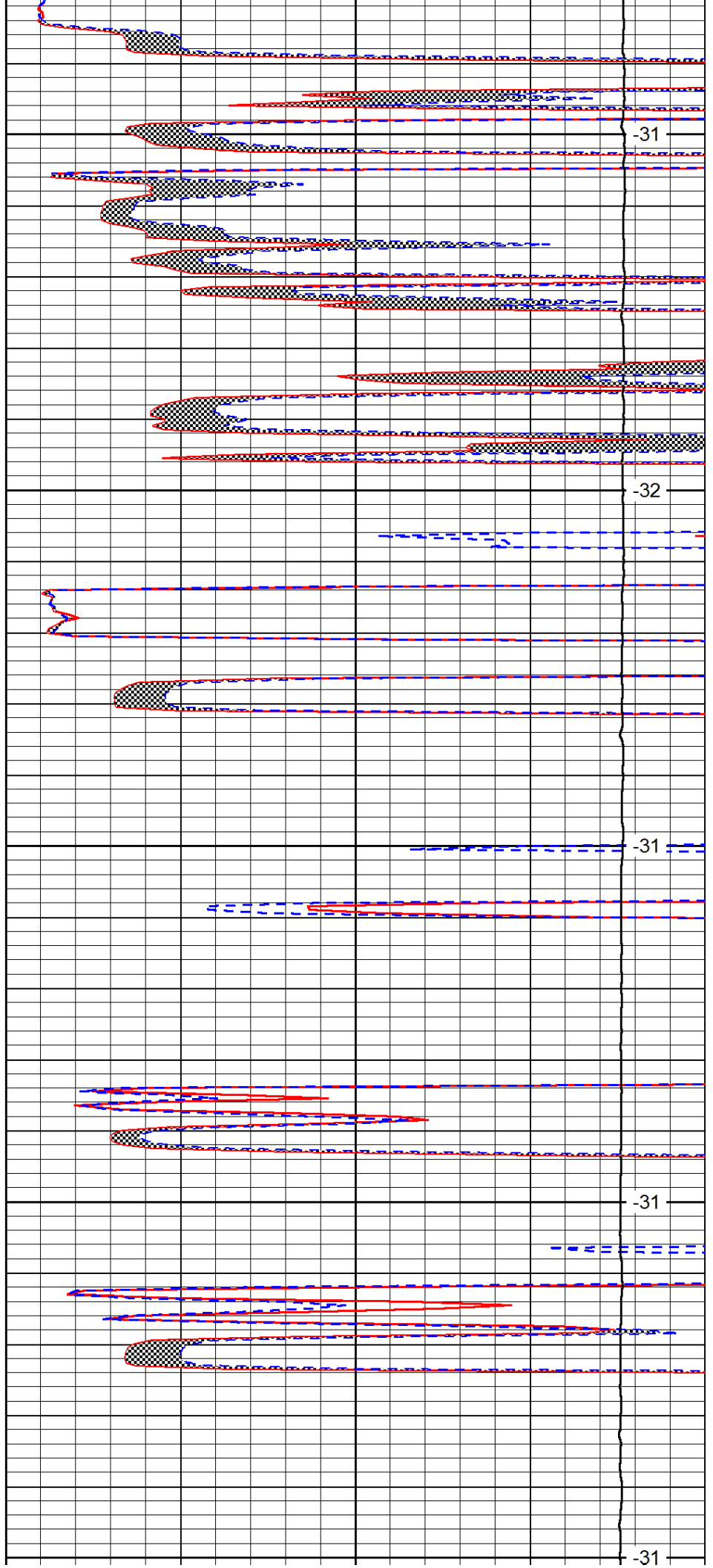
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4200

4250

4300

4350



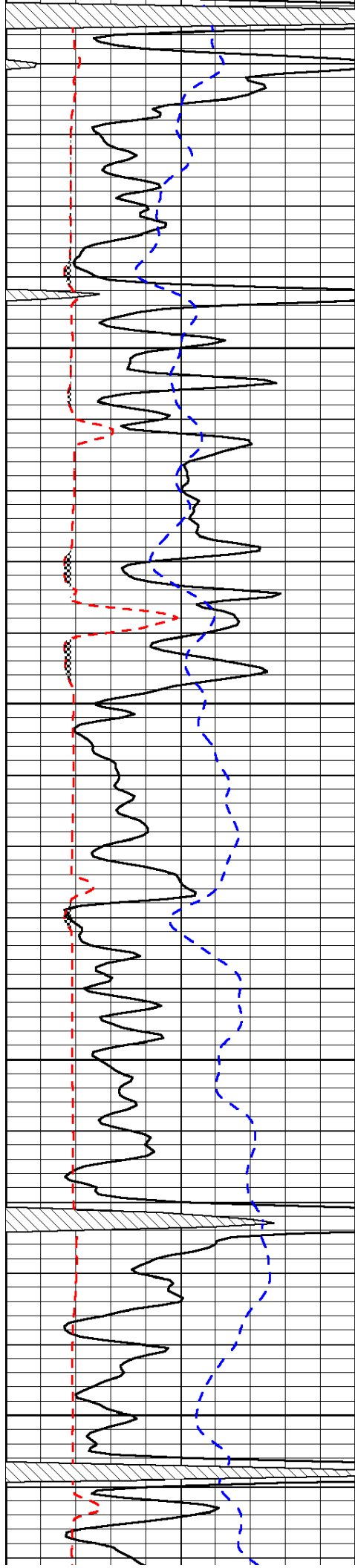
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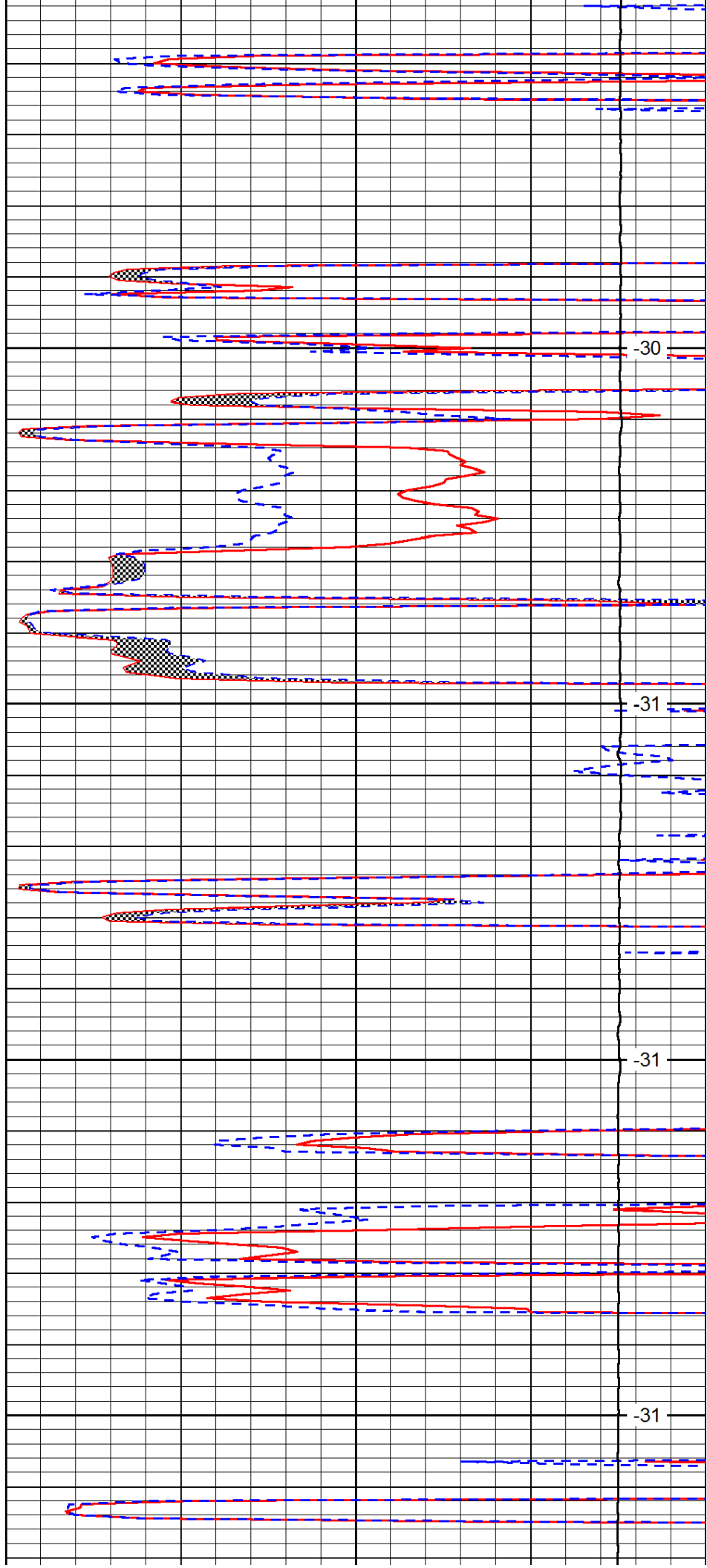


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4450

4500

4550

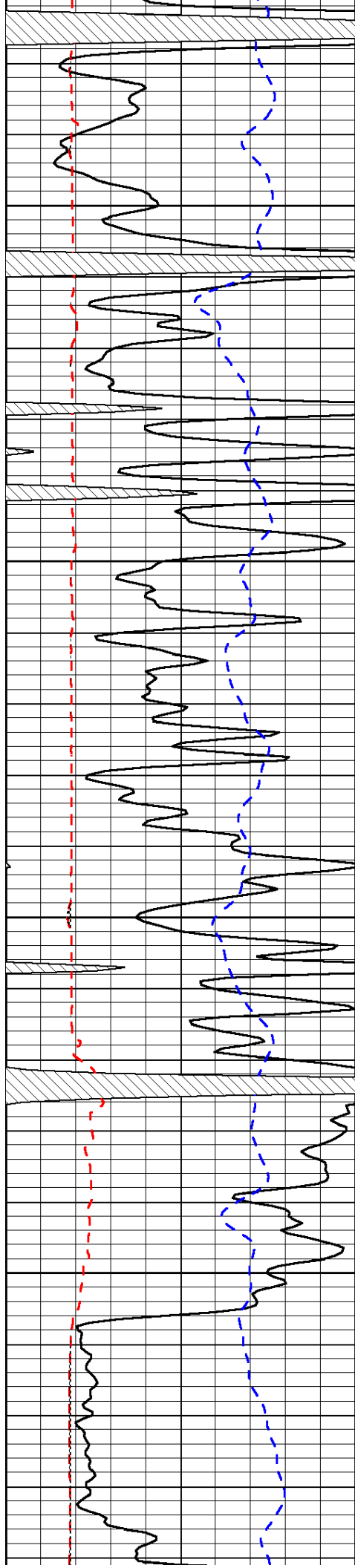


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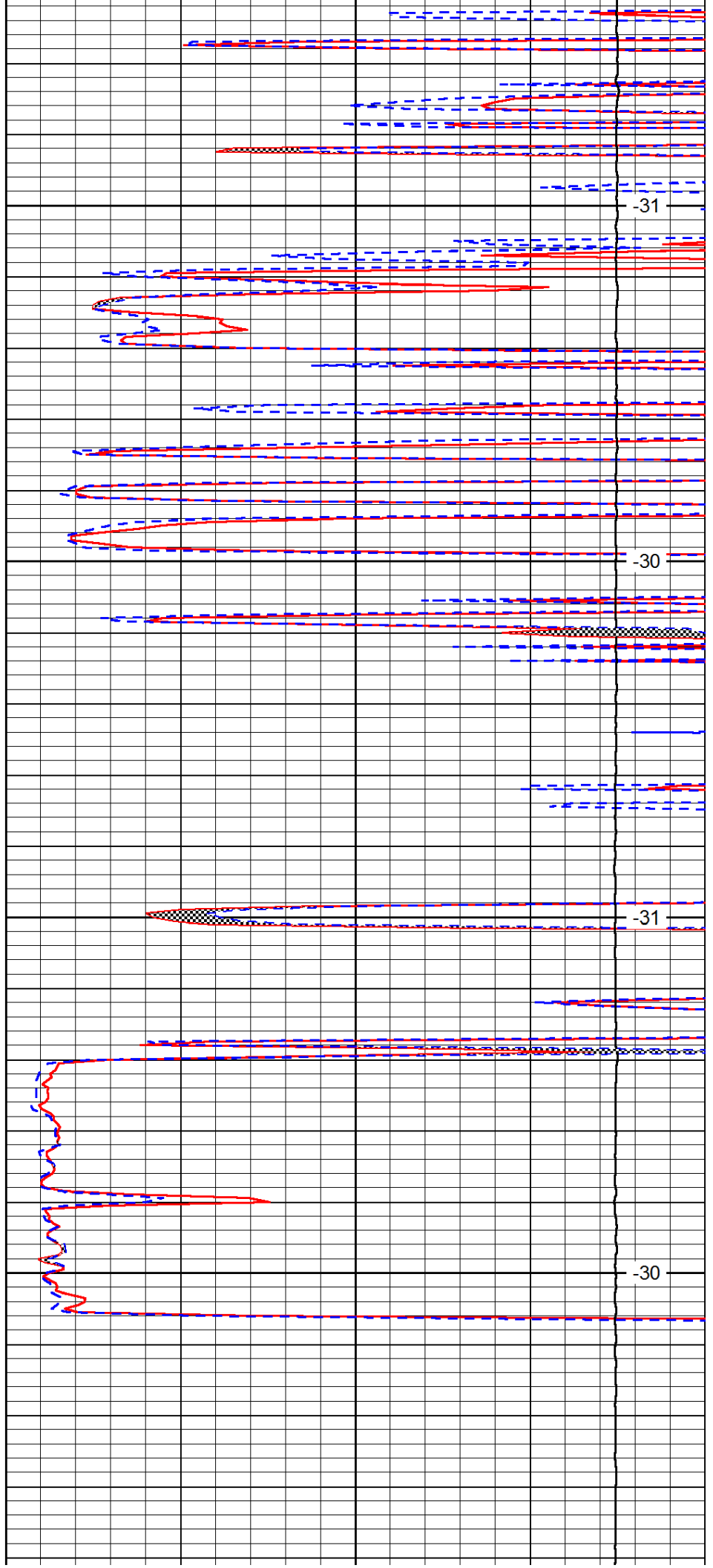


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4650

4700

4750

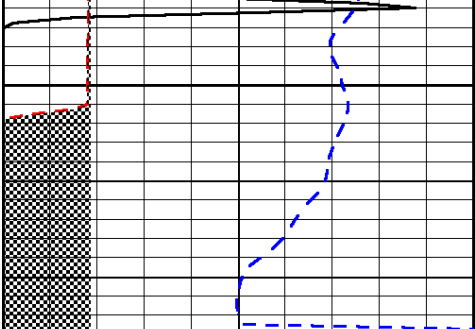


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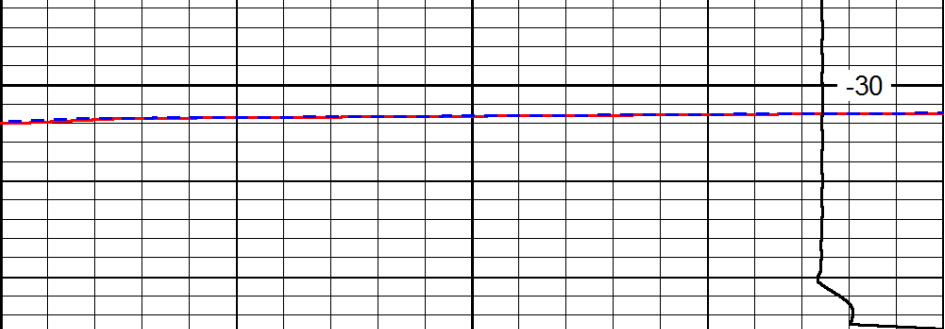
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4800



-30

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