



Microresistivity Log

Pioneer Energy Services

API No.

15-047-21,628-00-00

Company **Toto Energy, LLC.**

Well **Electric Guitar #1**

Field **Wil**

County **Edwards** State **Kansas**

Location **1420' FSL & 1320' FEL**

Sec: 36 Twp: 25S Rge: 16W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 2048
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 1/4/2014

Run Number Two

Depth Driller 4765

Depth Logger 4754

Bottom Logged Interval 4753

Top Log Interval 3500

Casing Driller 8.625 @ 323

Casing Logger 322

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 3000

Density / Viscosity 8.8 50

pH / Fluid Loss 9.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp 1.4 @ 55

Rmf @ Meas. Temp 1.05 @ 55

Rmc @ Meas. Temp 1.89 @ 55

Source of Rmf / Rmc Charts

Rm @ BHT 0.62 @ 124

Operating Rig Time 4 Hours

Max Rec. Temp. F 124

Equipment Number 15

Location Hays

Recorded By D.Kerr

Witnessed By Harley Sayles

Terry Madden

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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.

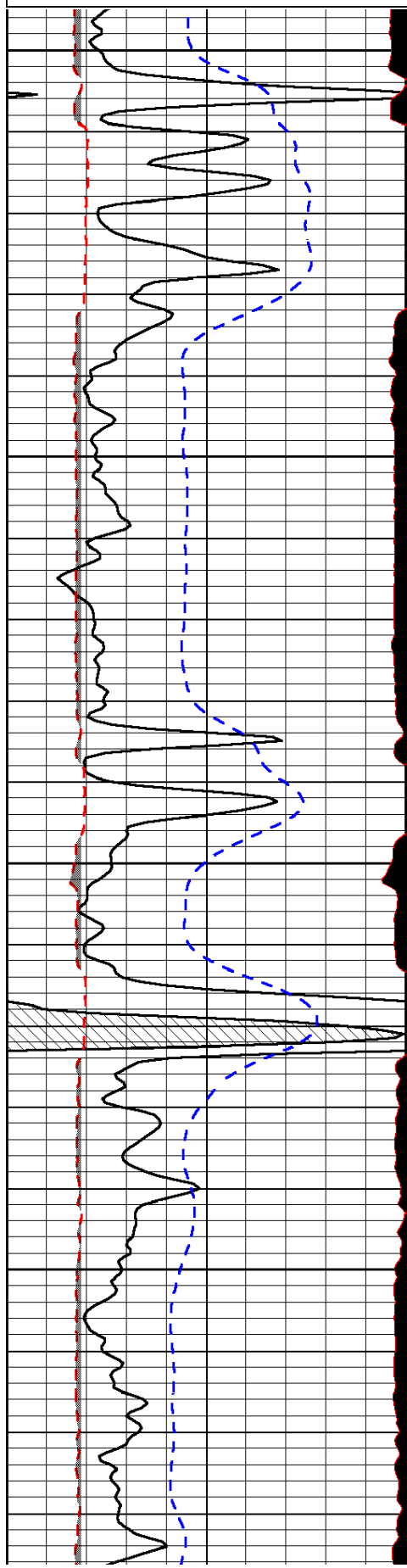
Comments

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

Belpre KS, 8 South to 80 RD,
4 East, 1/2 South, West Into

Database File: toto_electricguitar_1hd.db
Dataset Pathname: DIL/totostk
Presentation Format: micro
Dataset Creation: Sat Jan 04 11:15:57 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



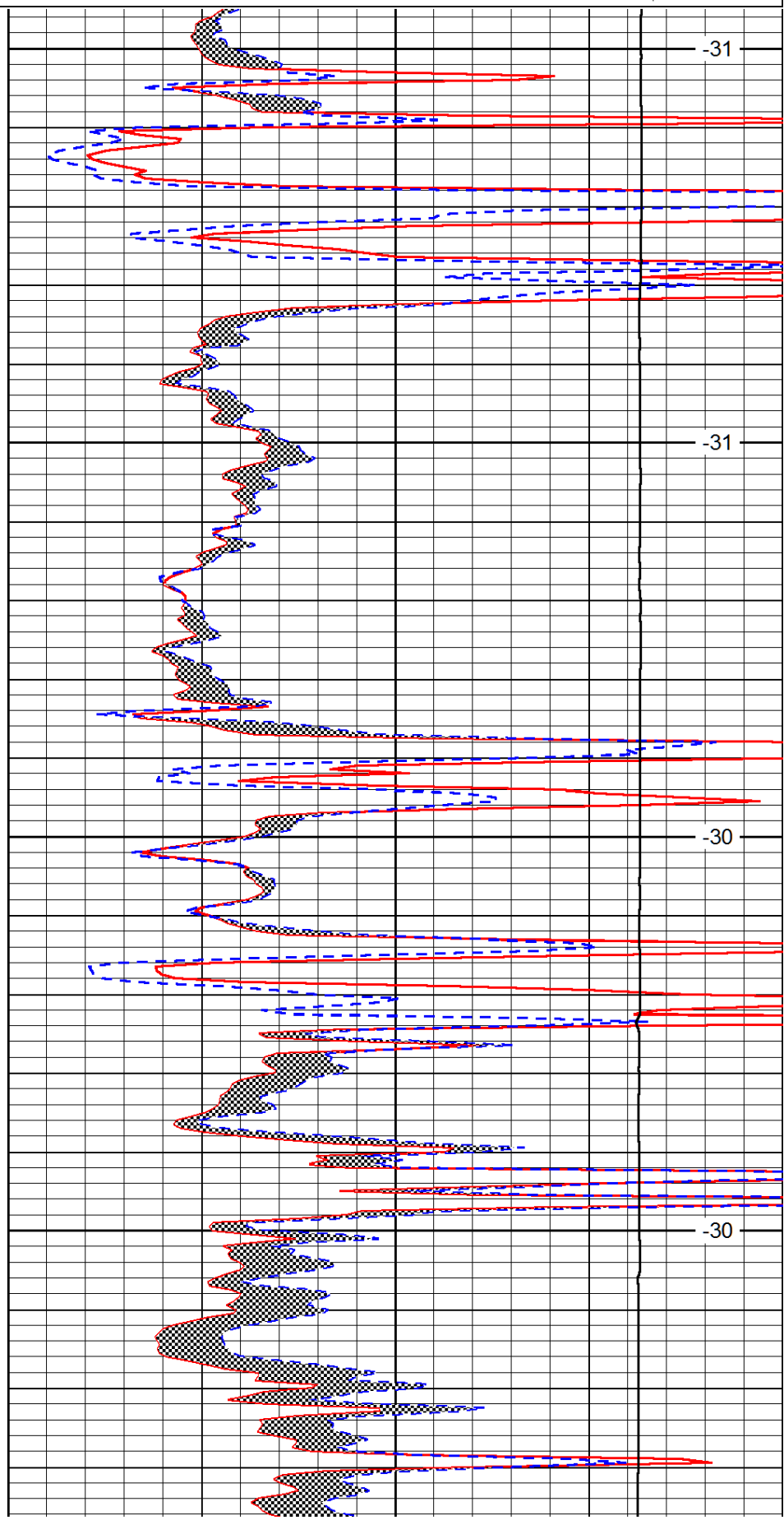
3500

3550

3600

3650

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)

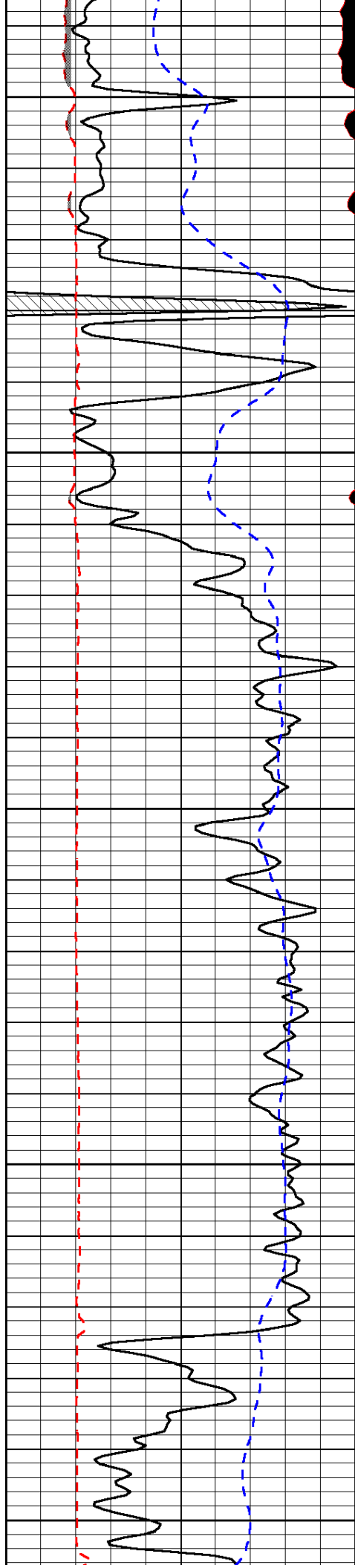


-31

-31

-30

-30



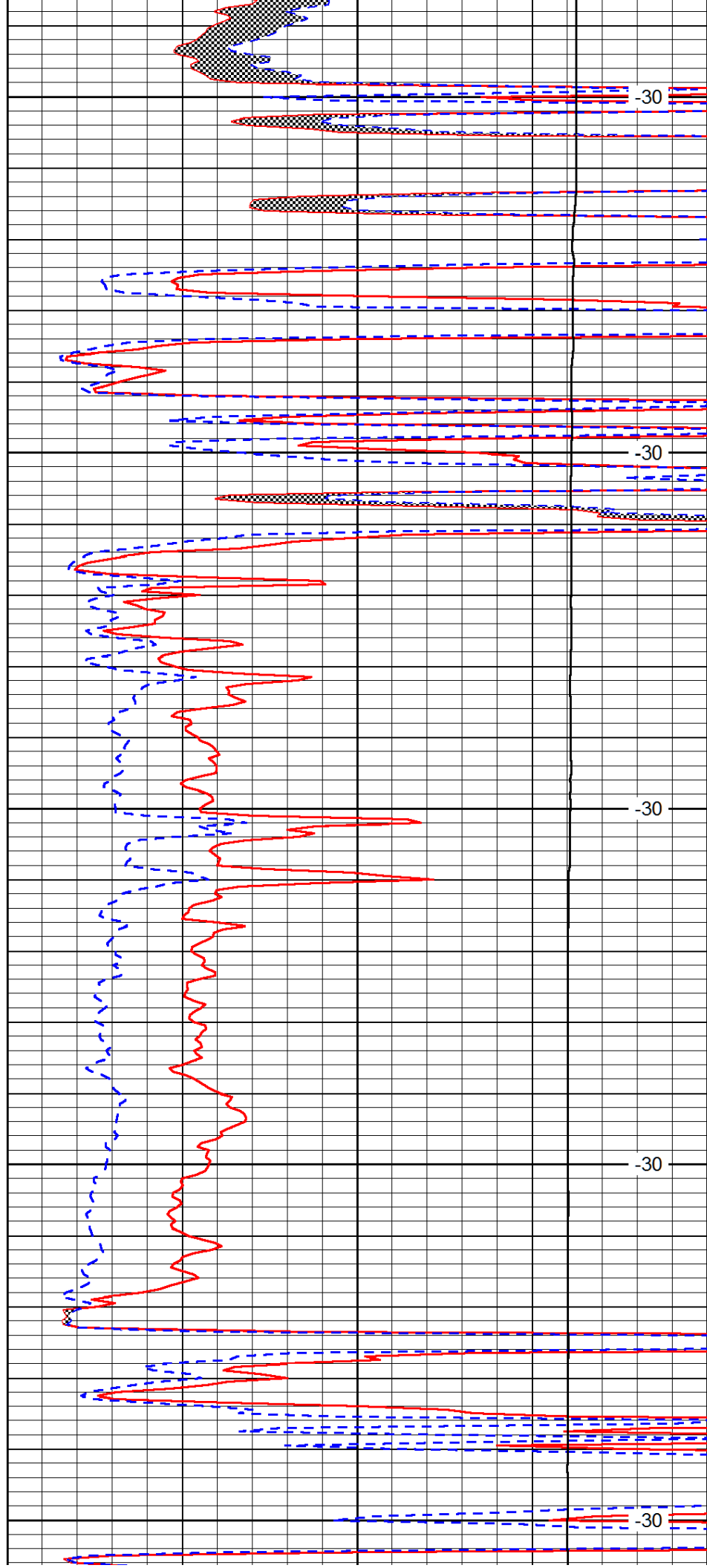
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3750

3800

3850

3900



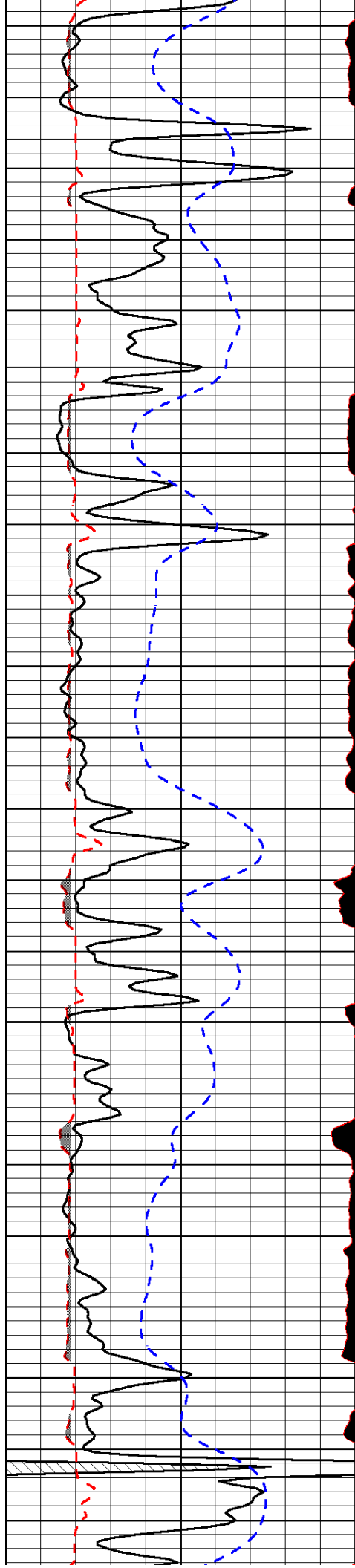
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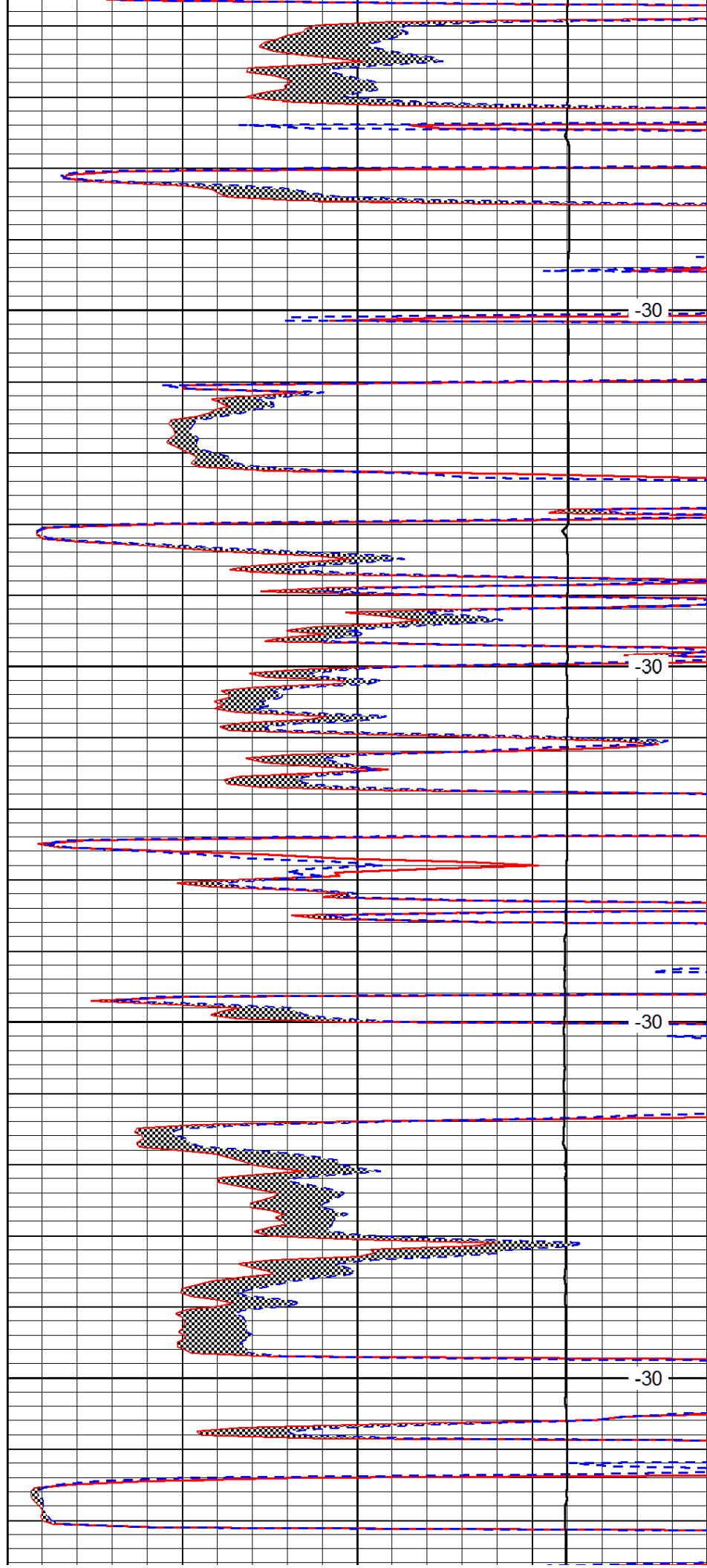


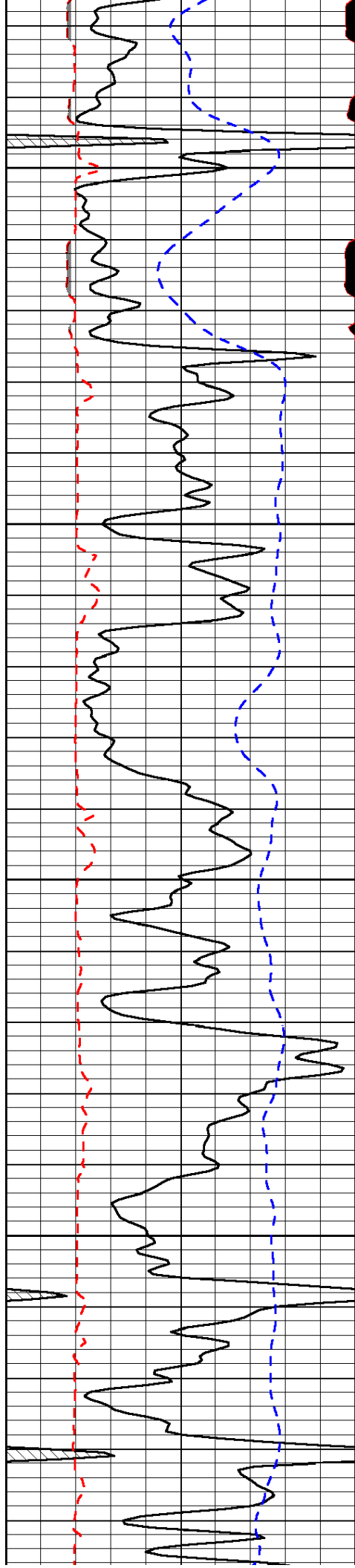
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4000

4050

4100



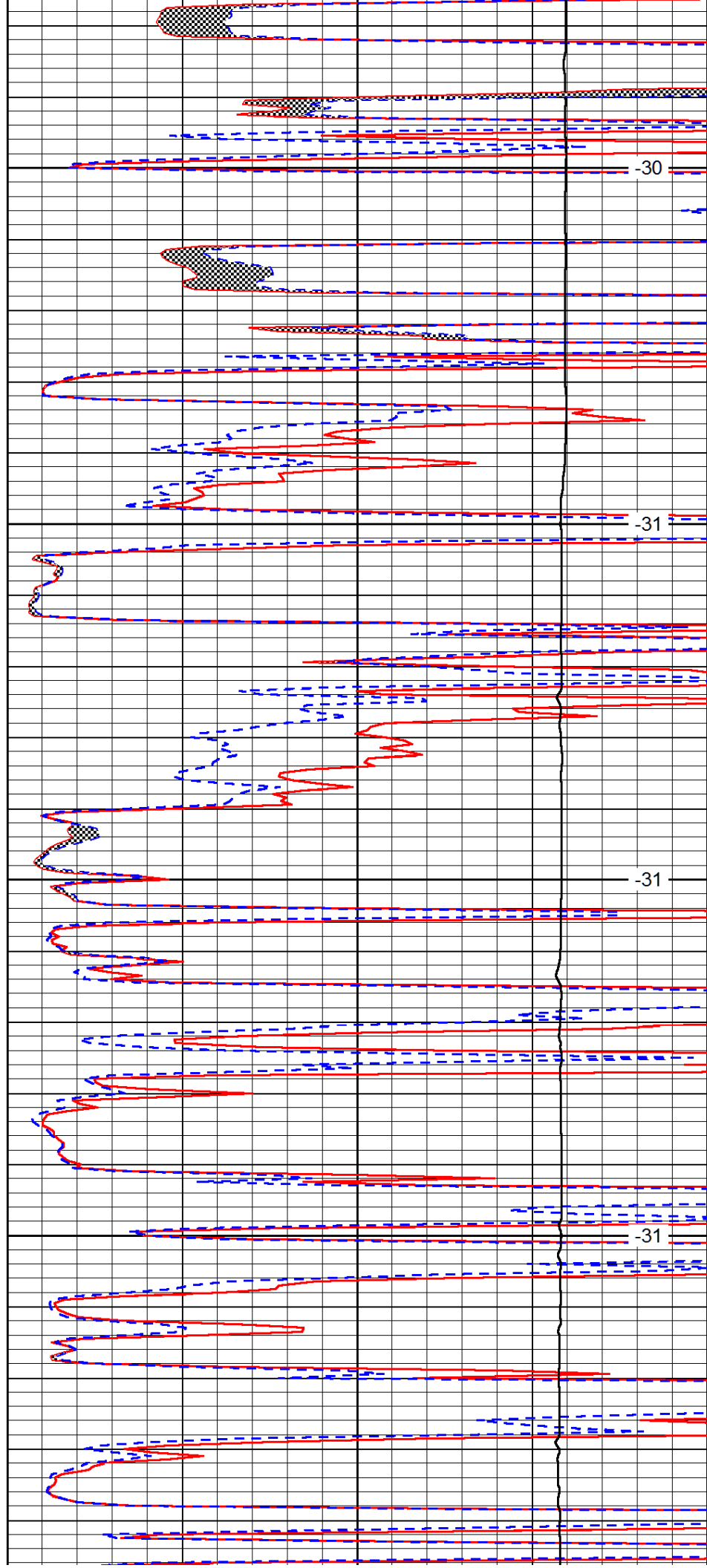


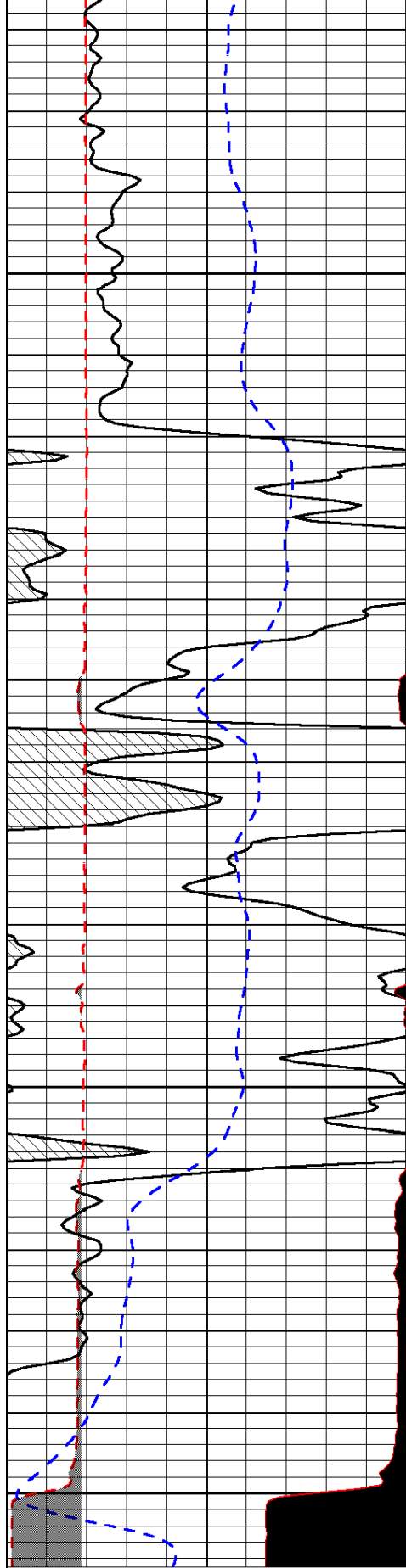
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4200

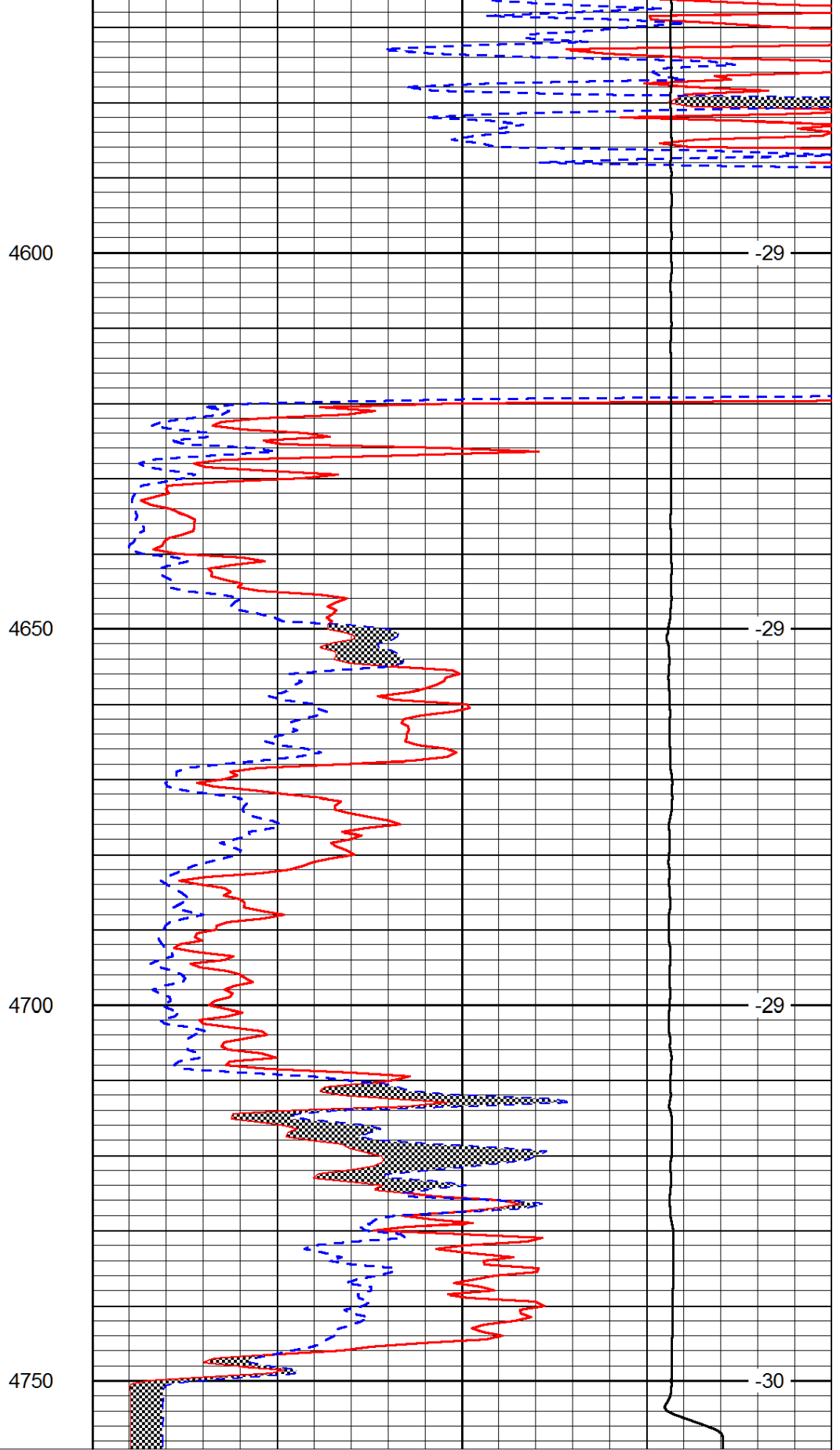
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4300





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(ft/min)