



Pioneer Energy Services

Microresistivity Log

API No.

15-167-23941-00-00

Company Brungardt Oil and Leasing, Inc.

Well Miller #1

Field Dreher

County Russell

State

Kansas

Location

1370' FSL & 860' FEL

Other Services
CNL/CDL
DIL/BHCS

Sec: 22

Twp: 11S

Rge: 15W

Elevation

Permanent Datum Ground Level Elevation 1849
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1854
D.F.
G.L. 1849

Date 10/20/2014

Run Number Two

Depth Driller 3390

Depth Logger 3387

Bottom Logged Interval 3386

Top Log Interval 2350

Casing Driller 8.625 @ 218

Casing Logger 215

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8200

Density / Viscosity 9.2 49

pH / Fluid Loss 10.5 7.8

Source of Sample Flowline

Rm @ Meas. Temp 0.45 @ 68

Rmf @ Meas. Temp 0.34 @ 68

Rmc @ Meas. Temp 0.61 @ 68

Source of Rmf / Rmc Charts

Rm @ BHT 0.28 @ 110

Operating Rig Time 5 Hours

Max Rec. Temp. F 110

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Roger Fisher

<<< Fold Here >>>

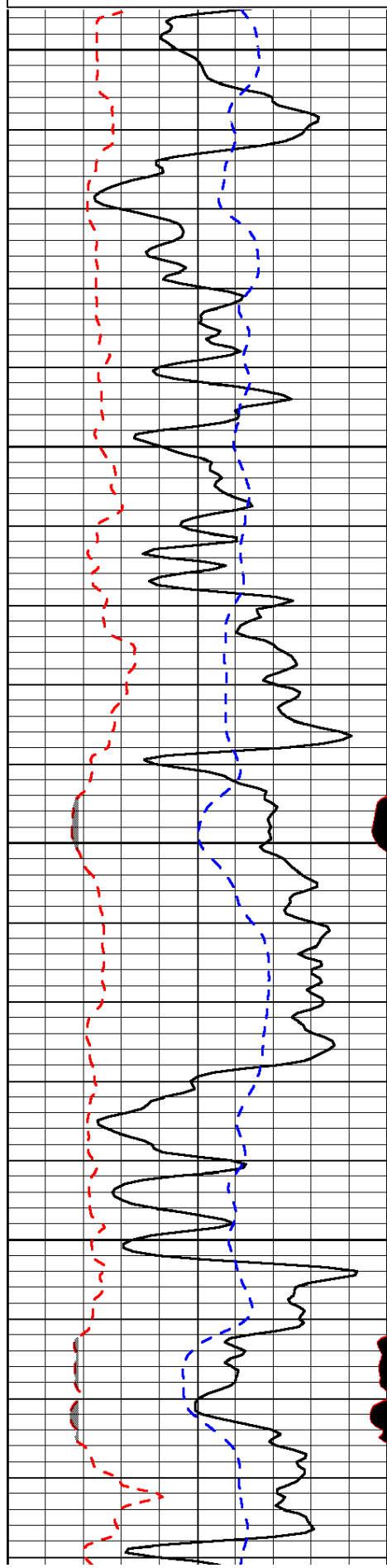
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Gorham,
1 East to 177th Rd,
North to Saline Lane,
1/2 East,
North to Fariview Rd, 1 East,
North Into

Database File: brungardt_miller_1hd.db
Dataset Pathname: dil/brstack
Presentation Format: micro
Dataset Creation: Mon Oct 20 20:28:09 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0



2350

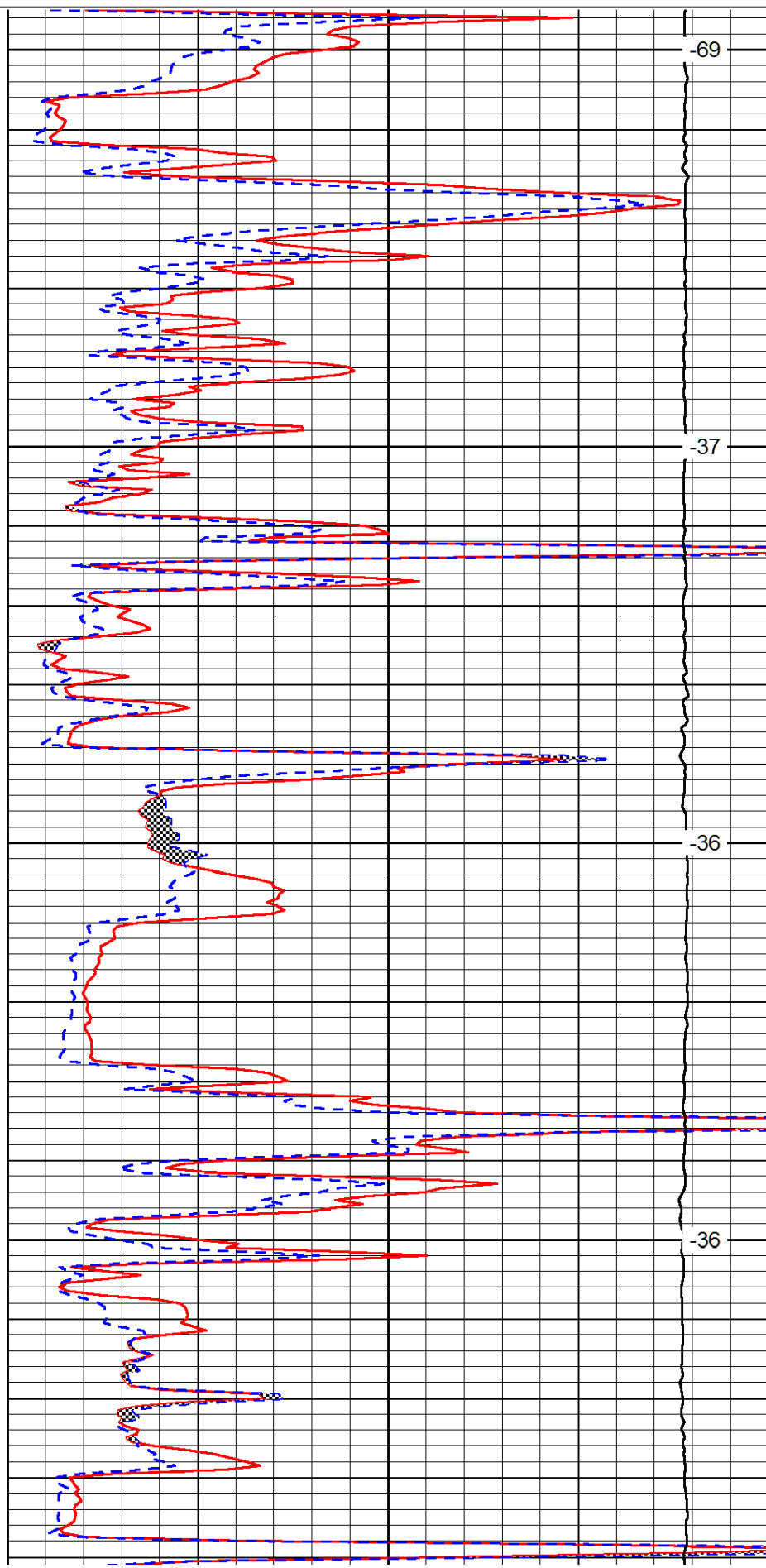
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2450

2500

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

LSPD

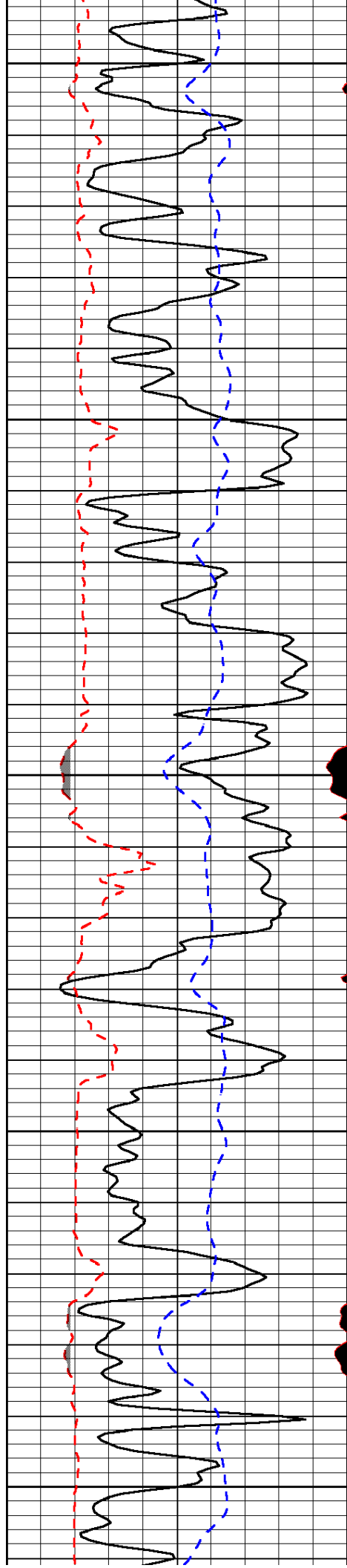


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-37

-36

-36



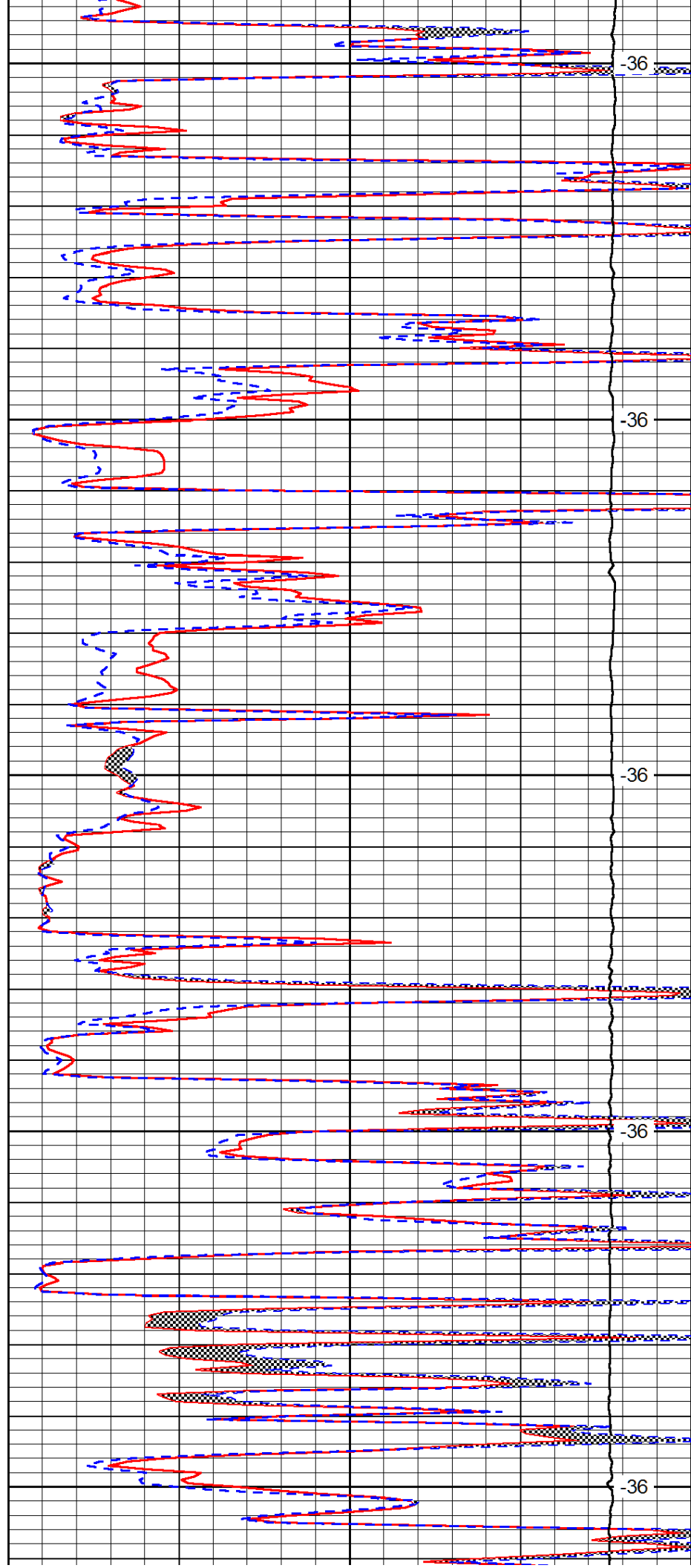
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2600

2650

2700

2750



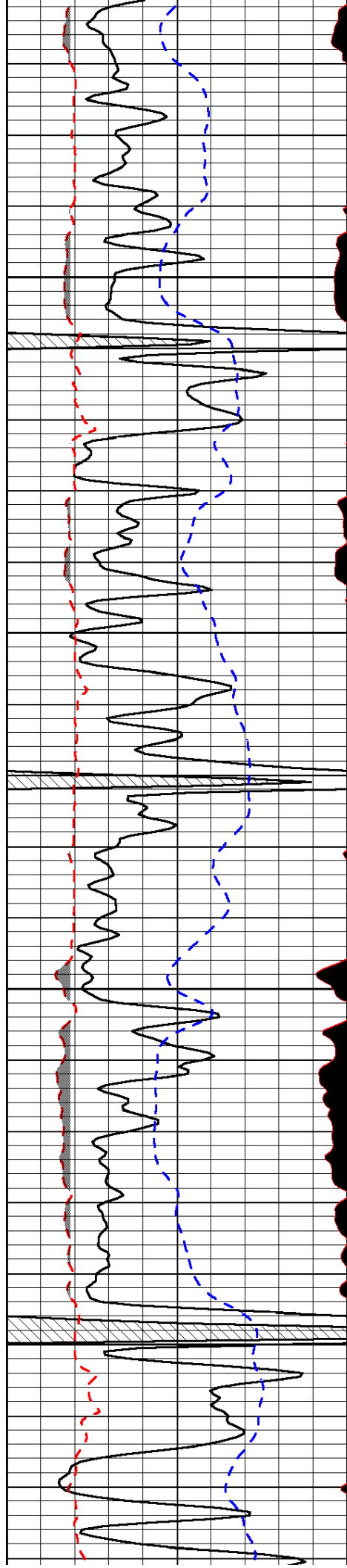
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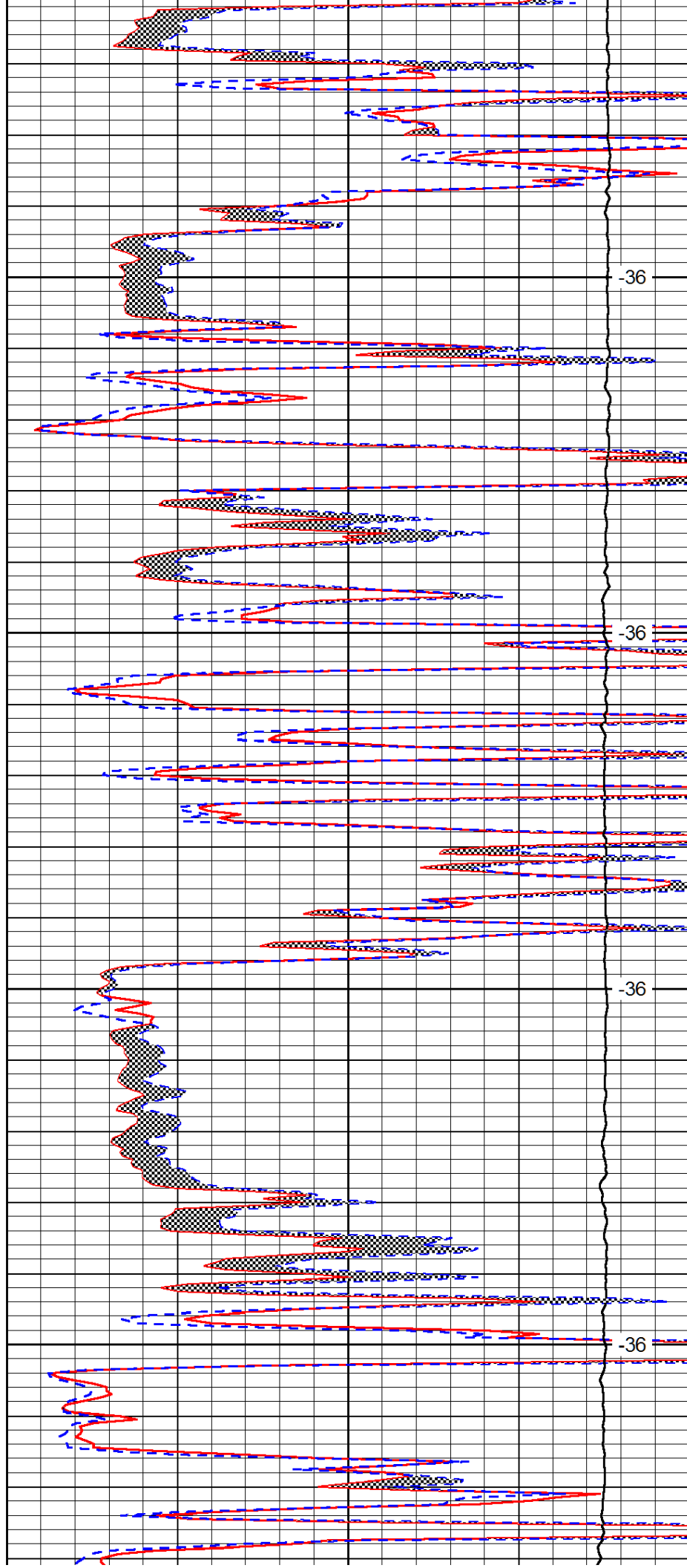


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2900

2950

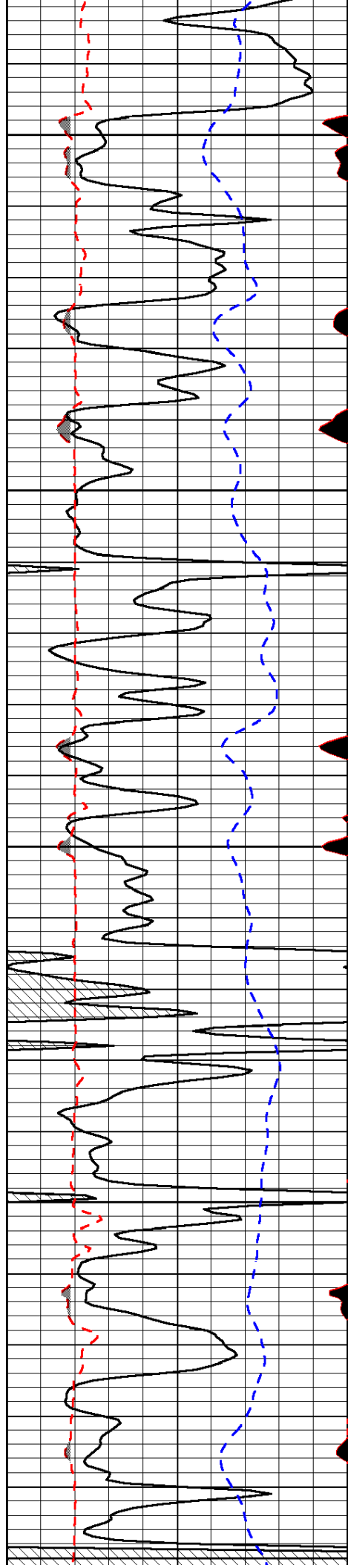


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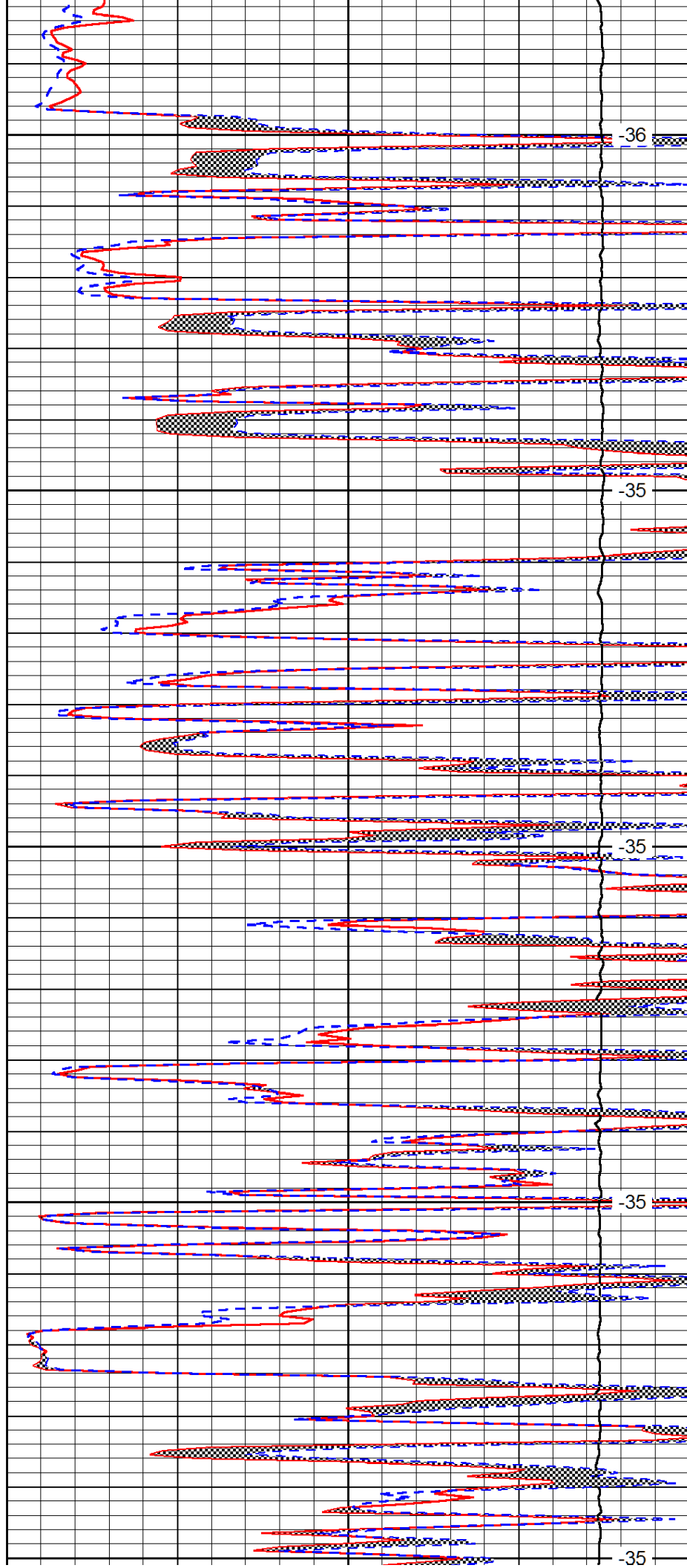
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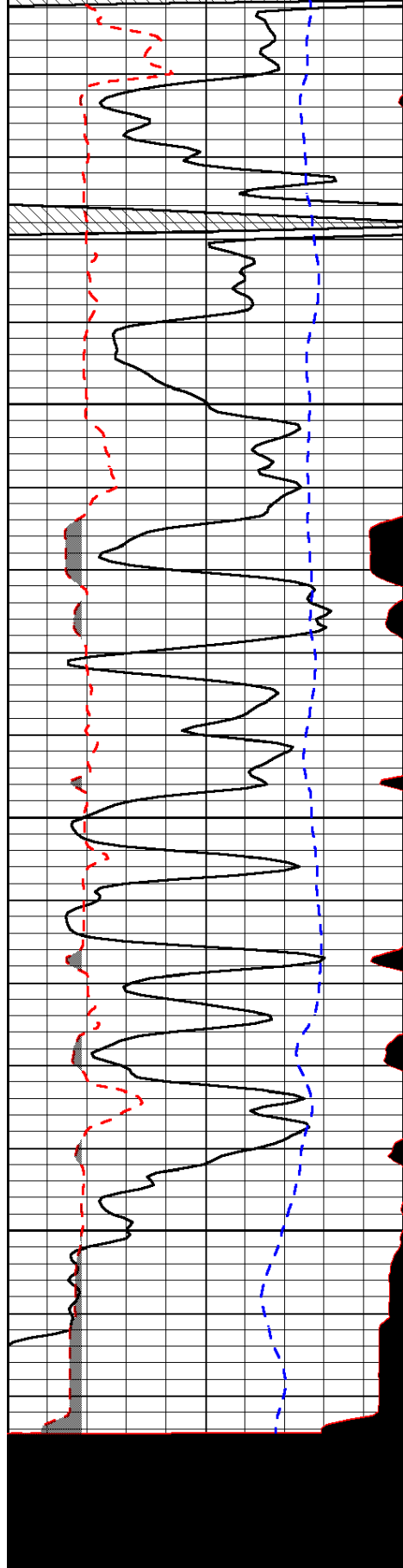
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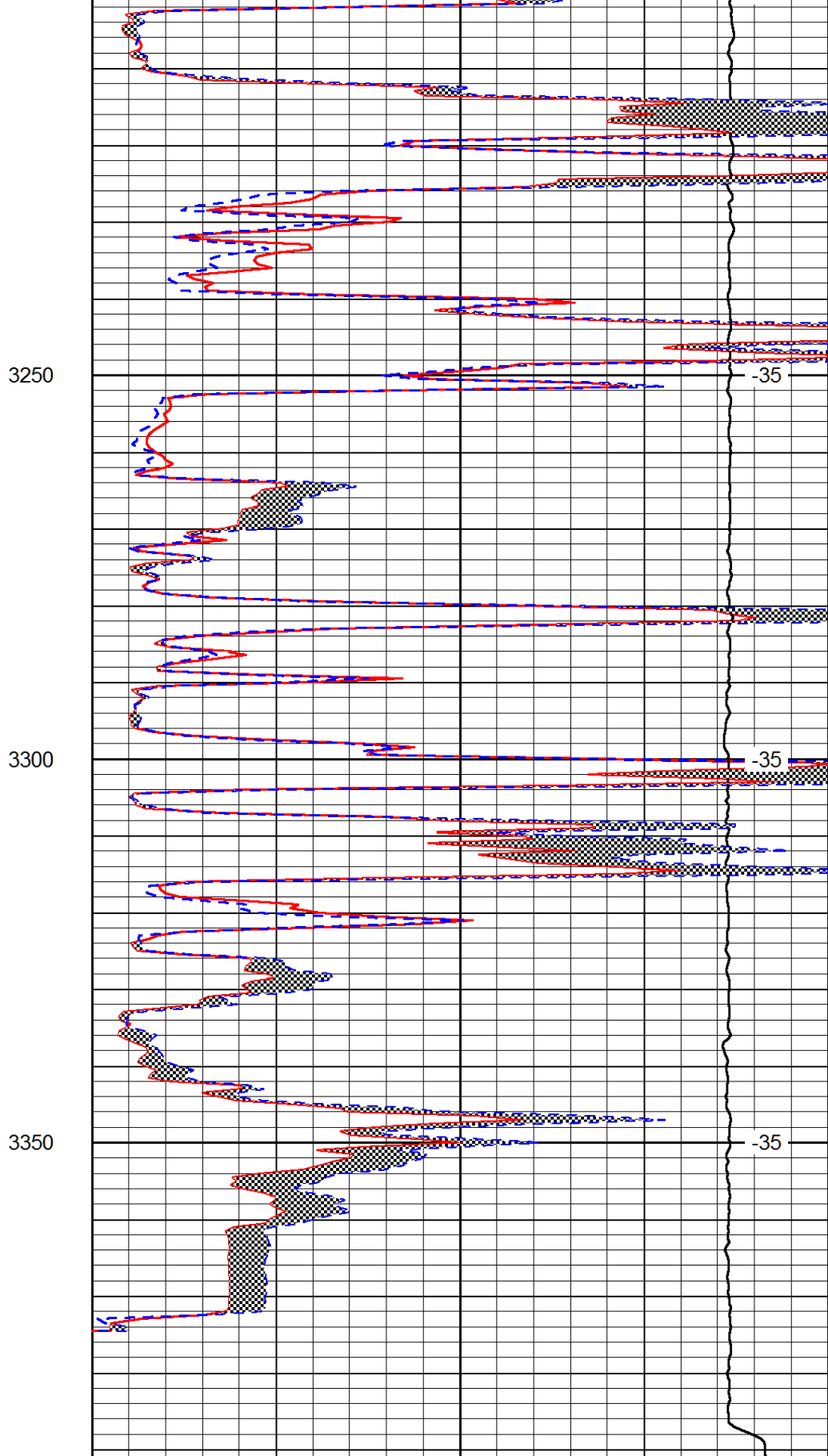
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3200





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