



Pioneer Energy Services

Microresistivity Log

API No.

15-171-21,116-00-00

Company **Landmark Resources, Inc.**

Well **Rose No. 1-4**

Field **Capstone West**

County **Scott** State **Kansas**

Location **1,894' FNL & 336' FEL**

Sec: **4** Twp: **17S** Rge: **34W**

Other Services
CNL/CDL
DIL

Elevation

Permanent Datum **Ground Level** Elevation **3131**
Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

K.B. 3141
D.F.
G.L. 3131

Date **12/18/2014**

Run Number **Two**

Depth Driller **4905**

Depth Logger **4906**

Bottom Logged Interval **4905**

Top Log Interval **3500**

Casing Driller **8.625 @ 265**

Casing Logger **262**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **7500**

Density / Viscosity **9.5 53**

pH / Fluid Loss **9.0 9.6**

Source of Sample **Flowline**

Rm @ Meas. Temp **.60 @ 48**

Rmf @ Meas. Temp **.45 @ 48**

Rmc @ Meas. Temp **.81 @ 48**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.23 @ 125**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **125**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

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

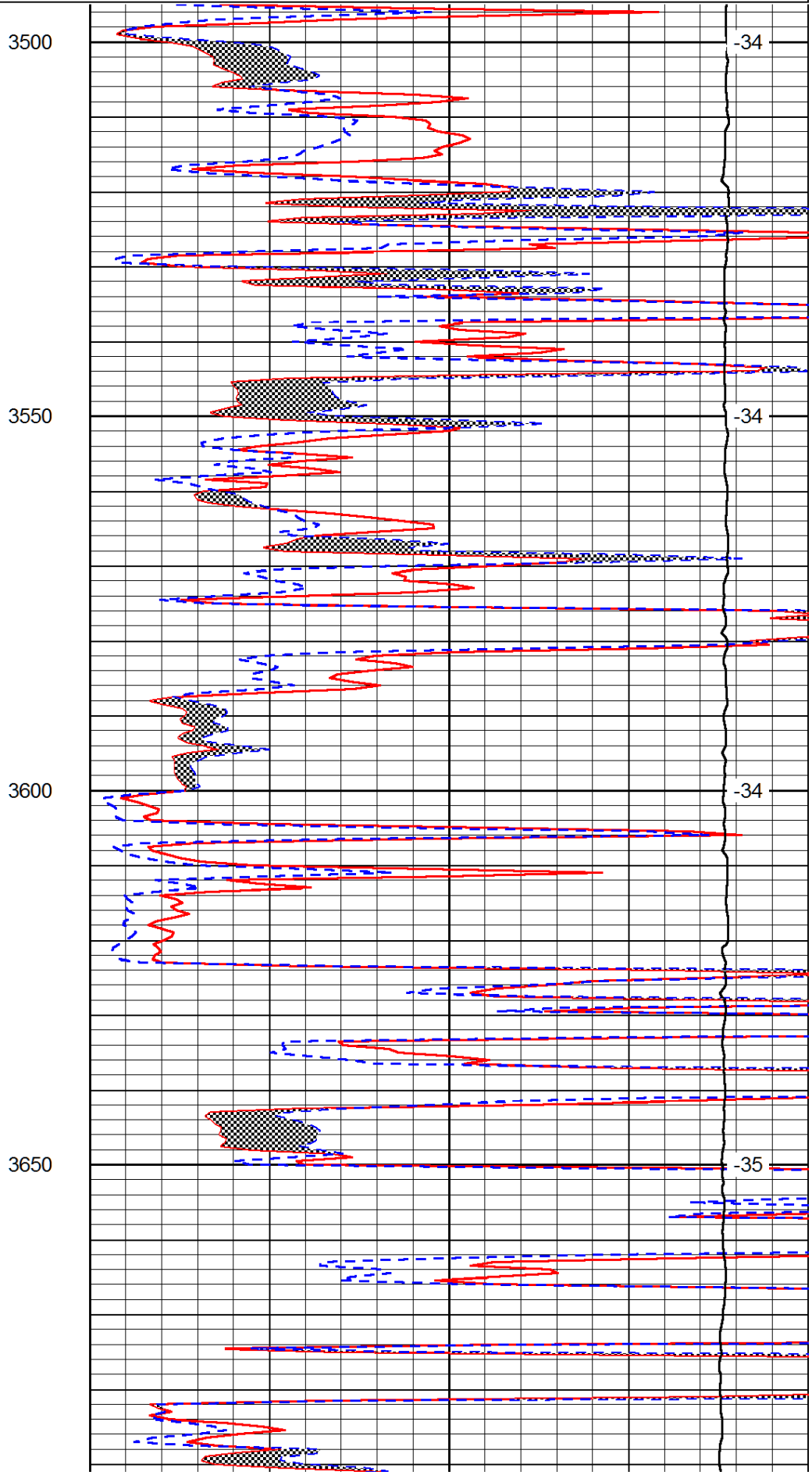
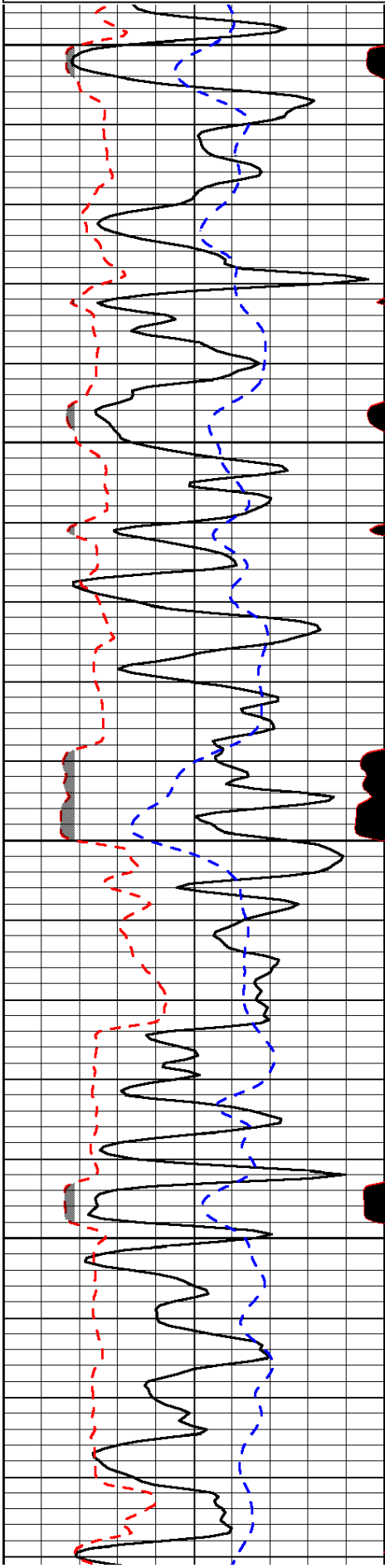
Thank you for using Log-Tech, Inc.
(785) 625-3858

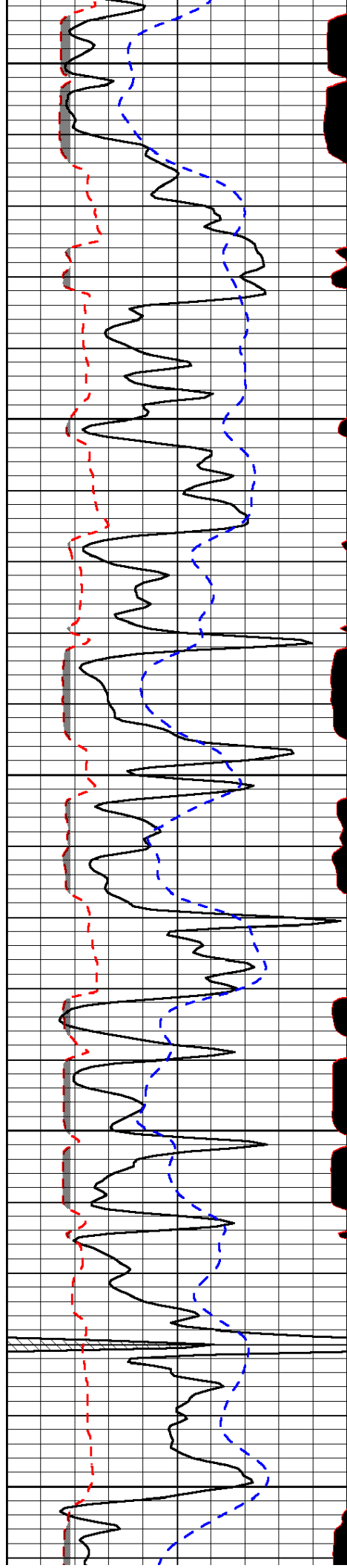
Oakley, South to Highway 4 and Highway 83 Intersection, 4 West, 1 North, 5 West,
1/4 South, West Into

Database File: landmark_rose_1-4hd.db
Dataset Pathname: dil/landstck
Presentation Format: micro
Dataset Creation: Thu Dec 18 08:22:58 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

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





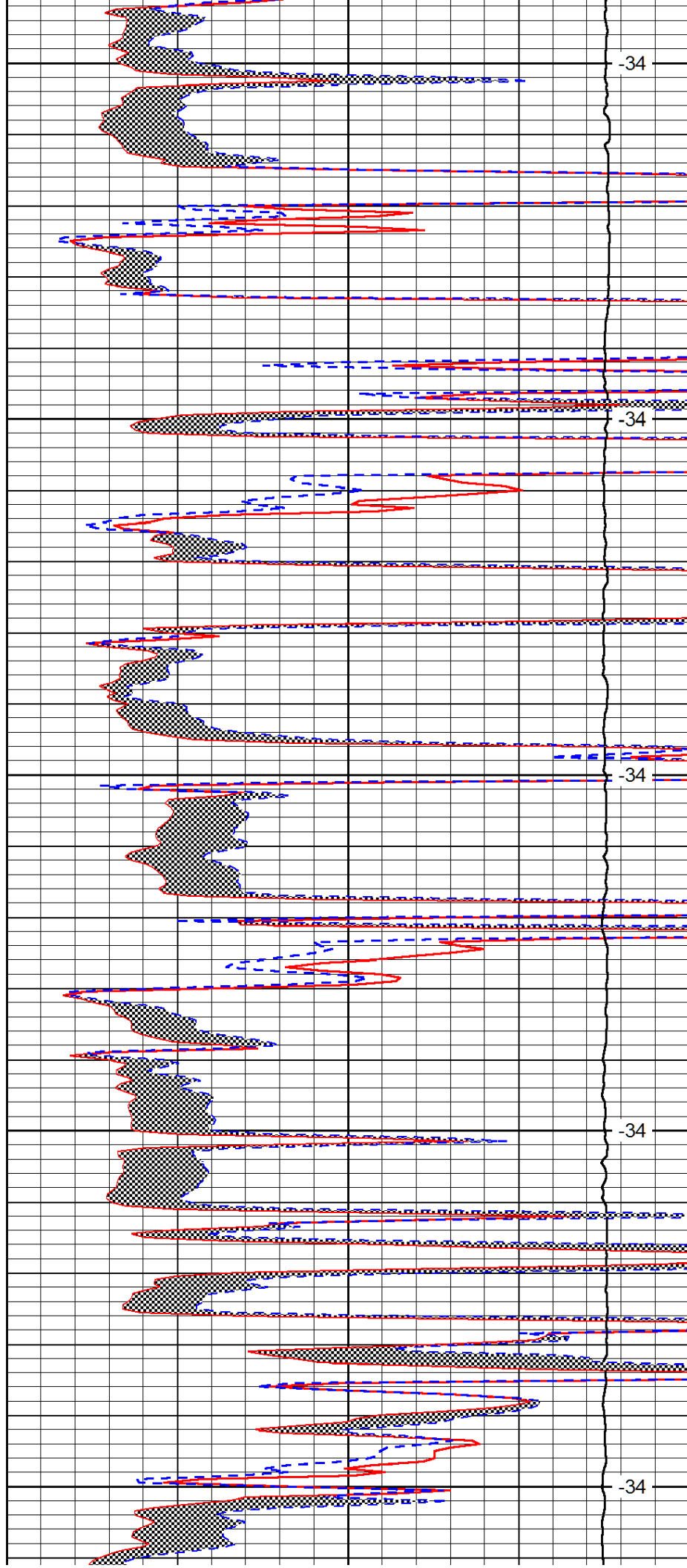
3700

3750

3800

3850

3900



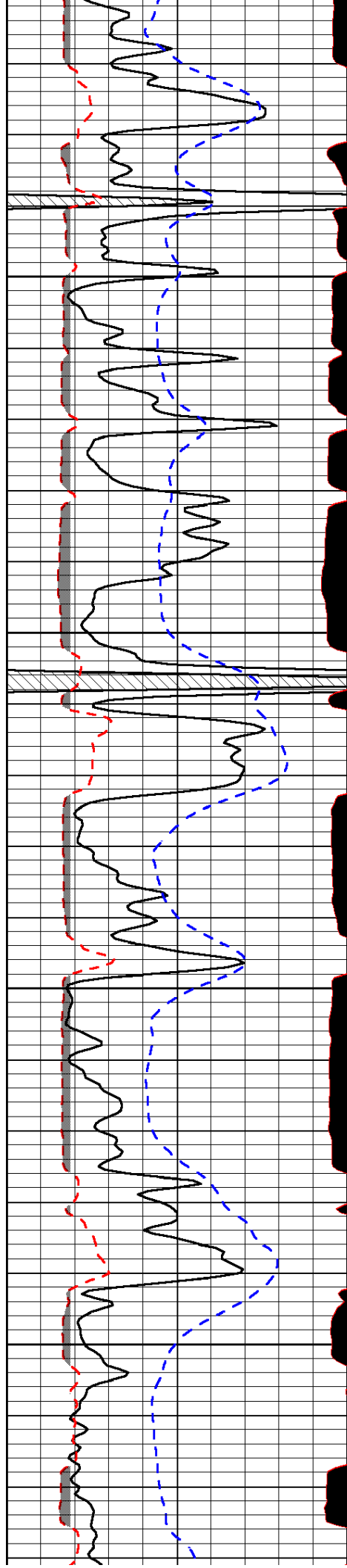
-34

-34

-34

-34

-34

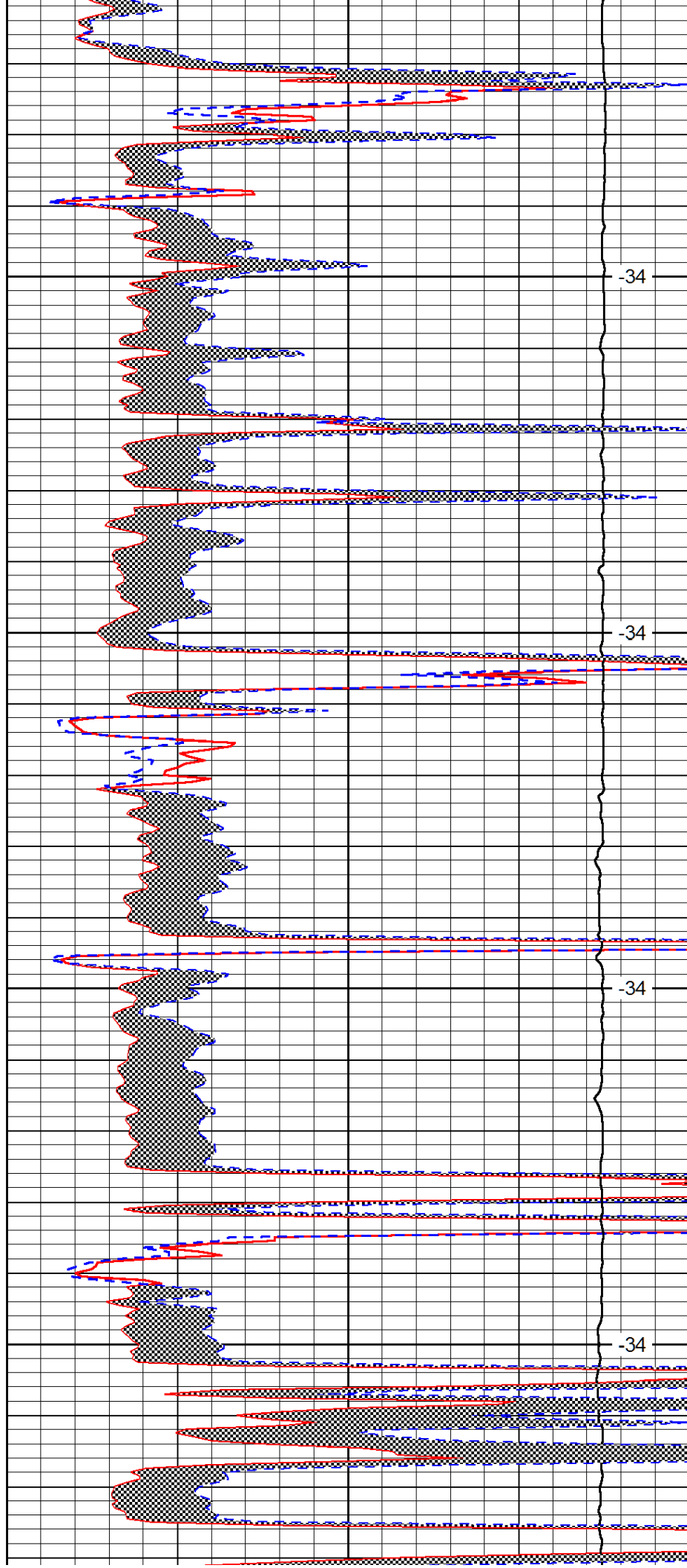


3950

4000

4050

4100

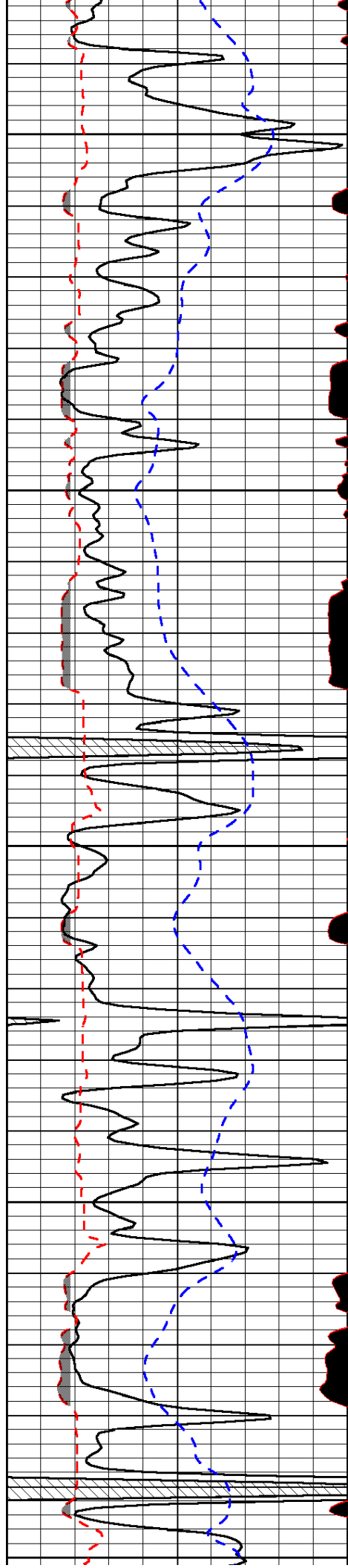


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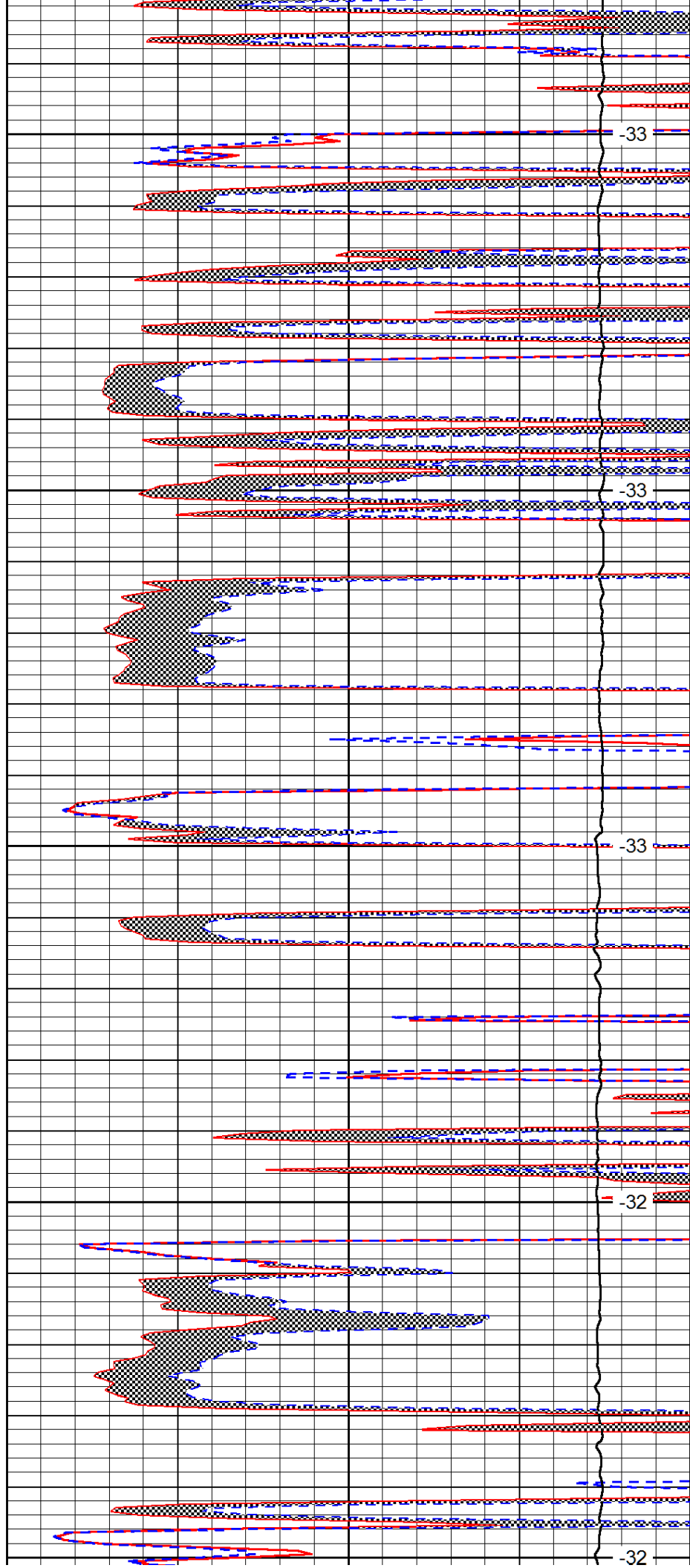
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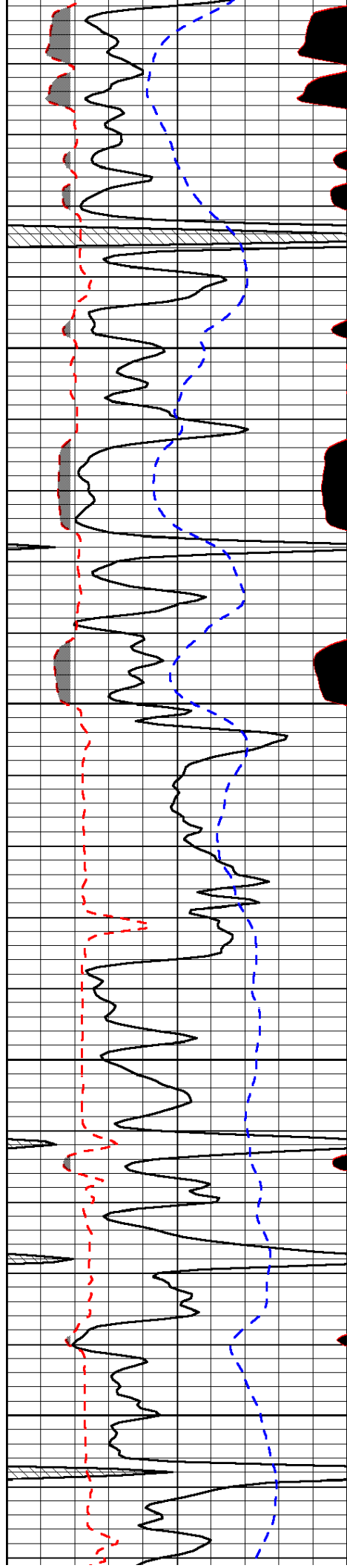
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4250

4300

4350



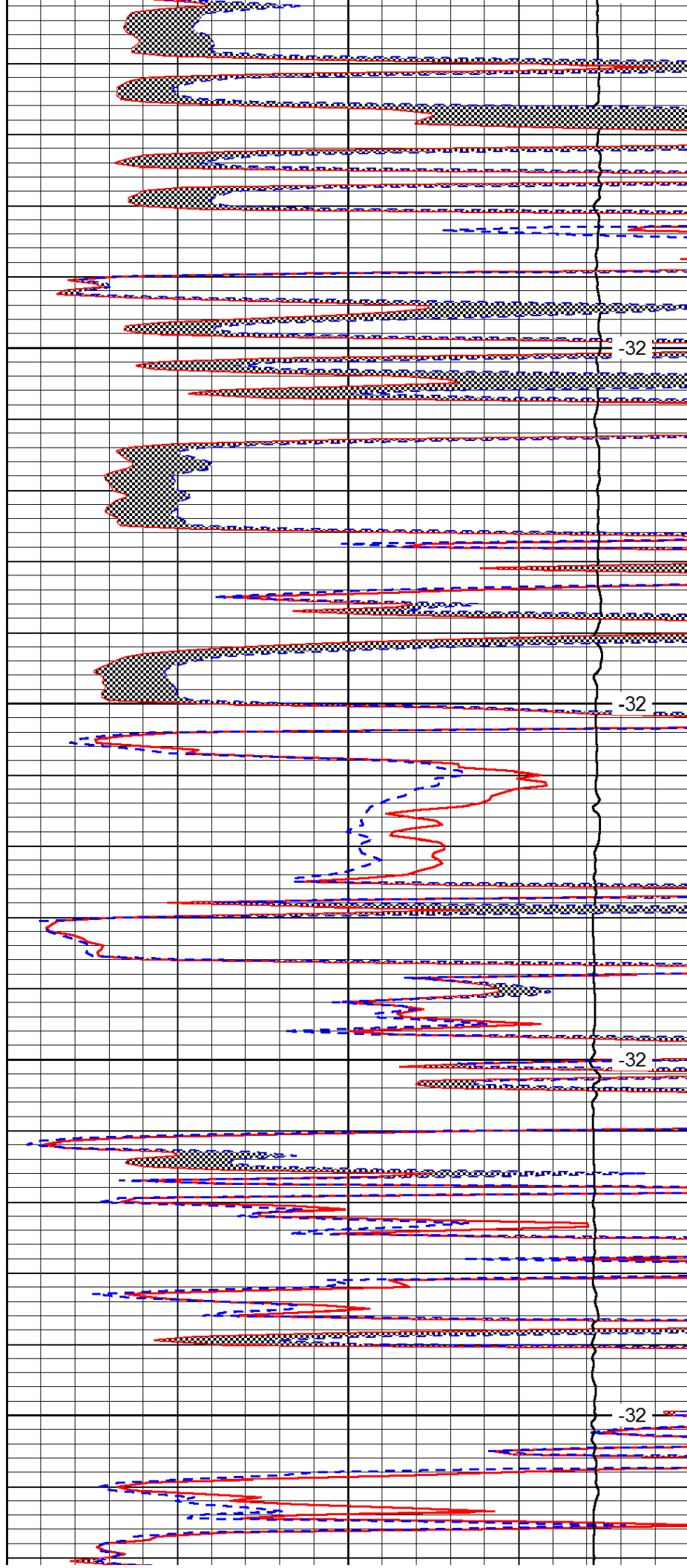


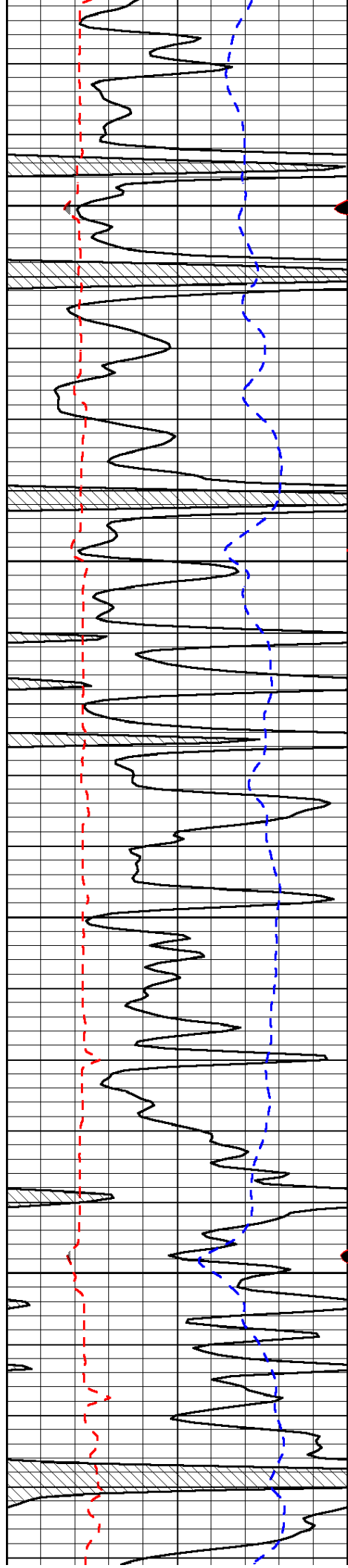
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4450

4500

4550



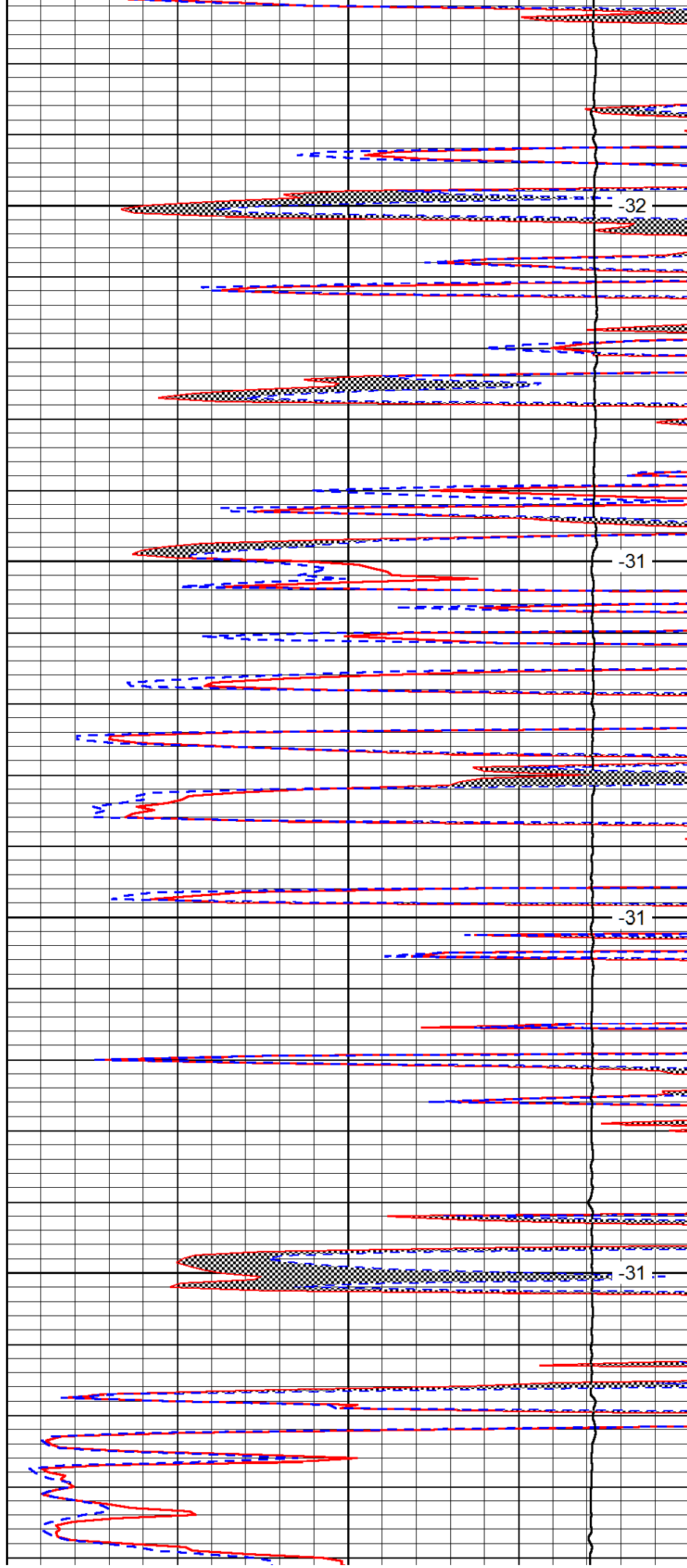


4600

4650

4700

4750



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-31

-31

-31

