



Microresistivity Log

Pioneer Energy Services

API No.

15-185-23808-00-00

Company H & D Exploration, LLC

Well Bunker #1

Field Wildcat

County Stafford

State

Kansas

Location NE SW SW SE
630' FSL / 2068' FEL

Sec: 20

Twp: 25S

Rge: 12W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum Ground Level

Elevation 1877

Log Measured From Kelly Bushing

10 Ft. Above Perm. Datum

K.B. 1887
D.F. 1877
G.L. 1877

Drilling Measured From

Kelly Bushing

Date

7/6/2013

Run Number

Two

Depth Driller

4260

Depth Logger

4262

Bottom Logged Interval

4261

Top Log Interval

3200

Casing Driller

8.625 @ 705

Casing Logger

706

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3400

Density / Viscosity

9.6 50

pH / Fluid Loss

12.5 8.8

Source of Sample

Flowline

Rm @ Meas. Temp

0.40 @ 82

Rmf @ Meas. Temp

0.30 @ 82

Rmc @ Meas. Temp

0.54 @ 82

Source of Rmf / Rmc

Charts

Rm @ BHT

0.28 @ 119

Operating Rig Time

5 Hours

Max Rec. Temp. F

119

Equipment Number

17

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Josh Austin

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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

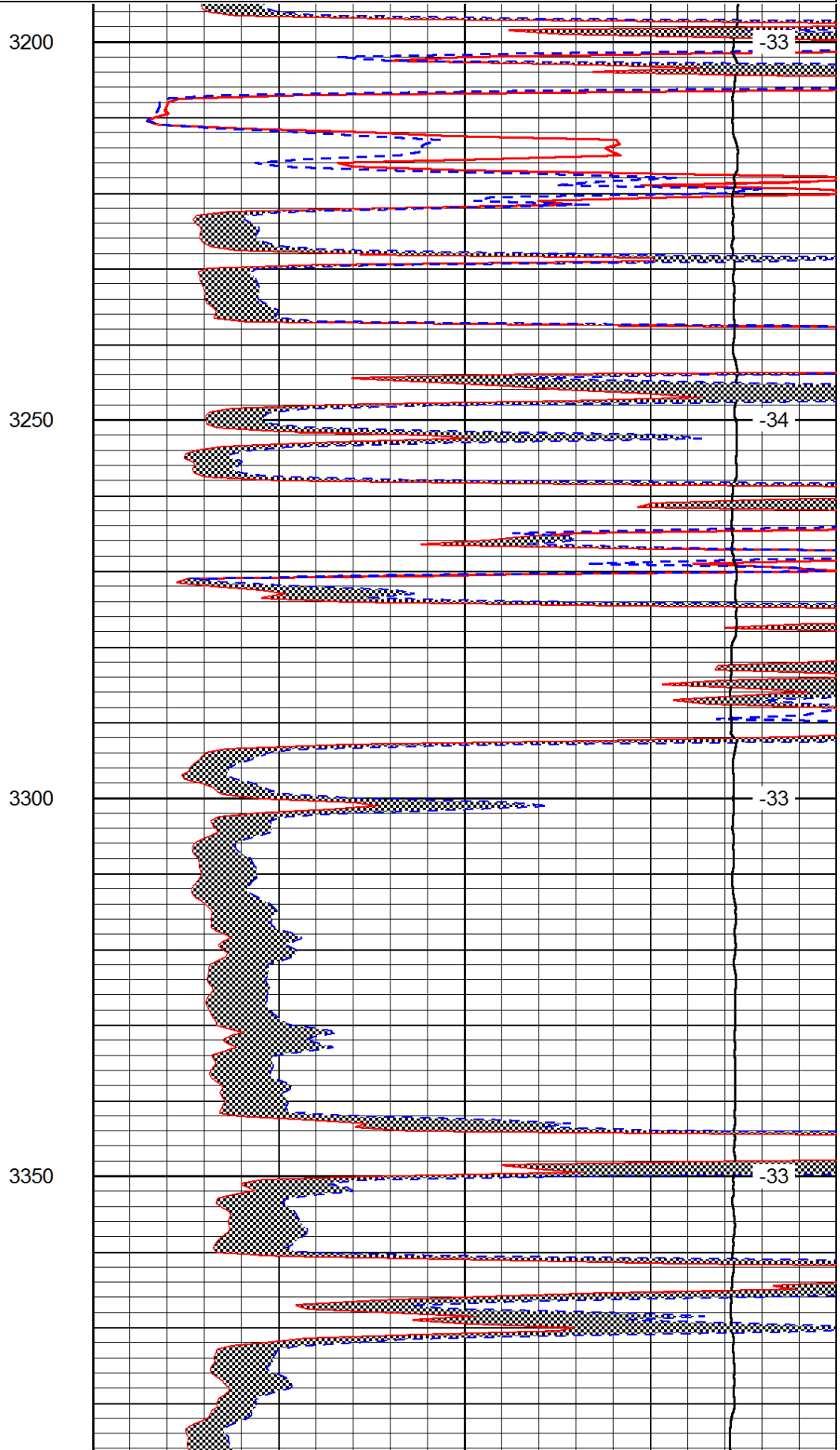
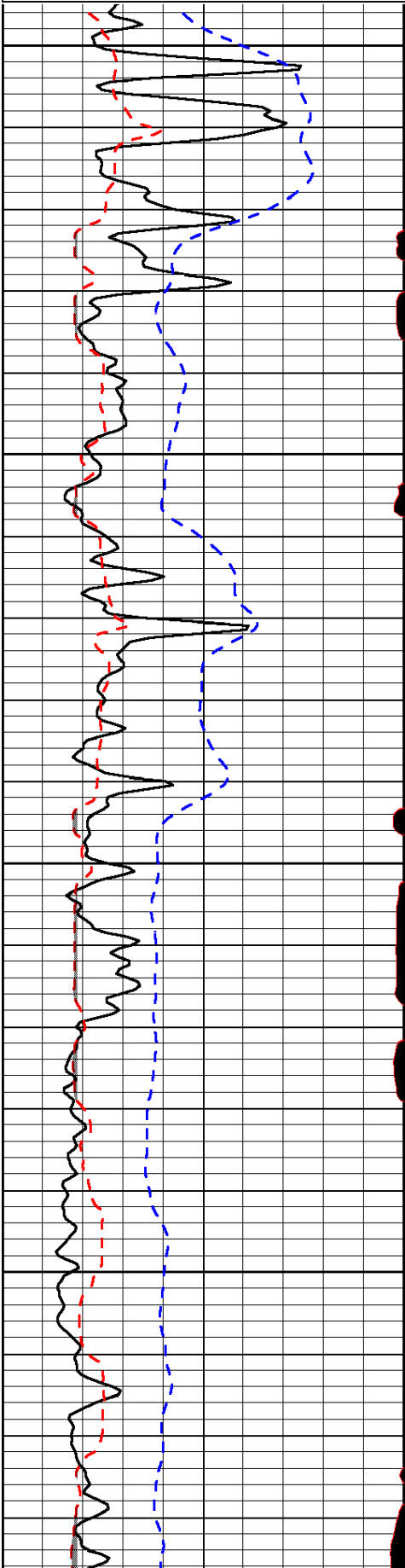
Thank you for using Log-Tech, Inc.
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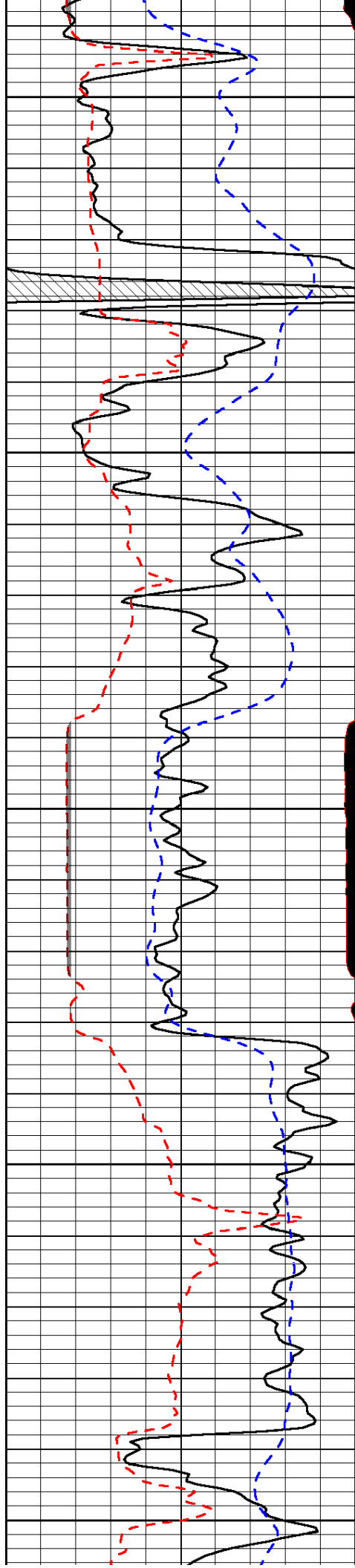
Stafford, KS:
7S, 3 1/2W, N into

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

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





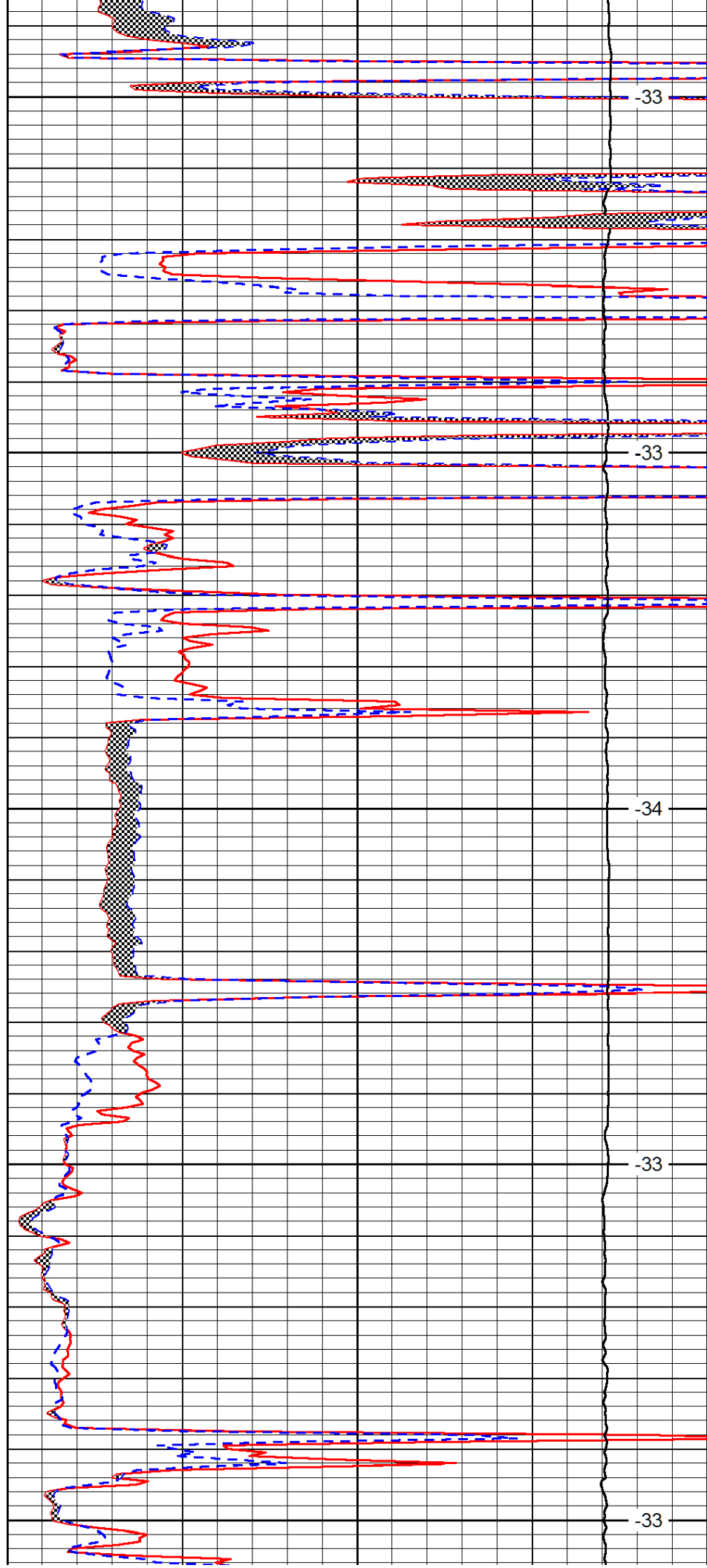
3400

3450

3500

3550

3600



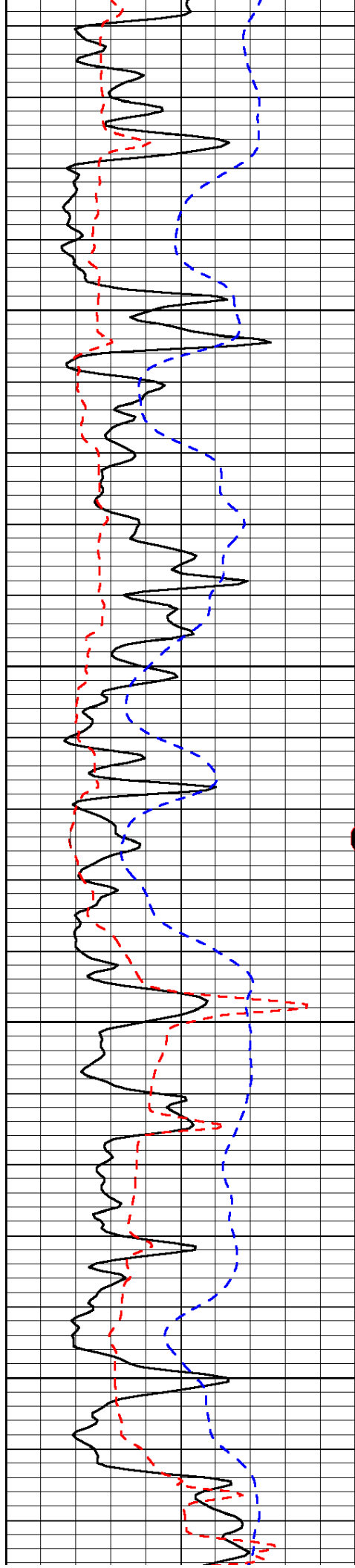
-33

-33

-34

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-33

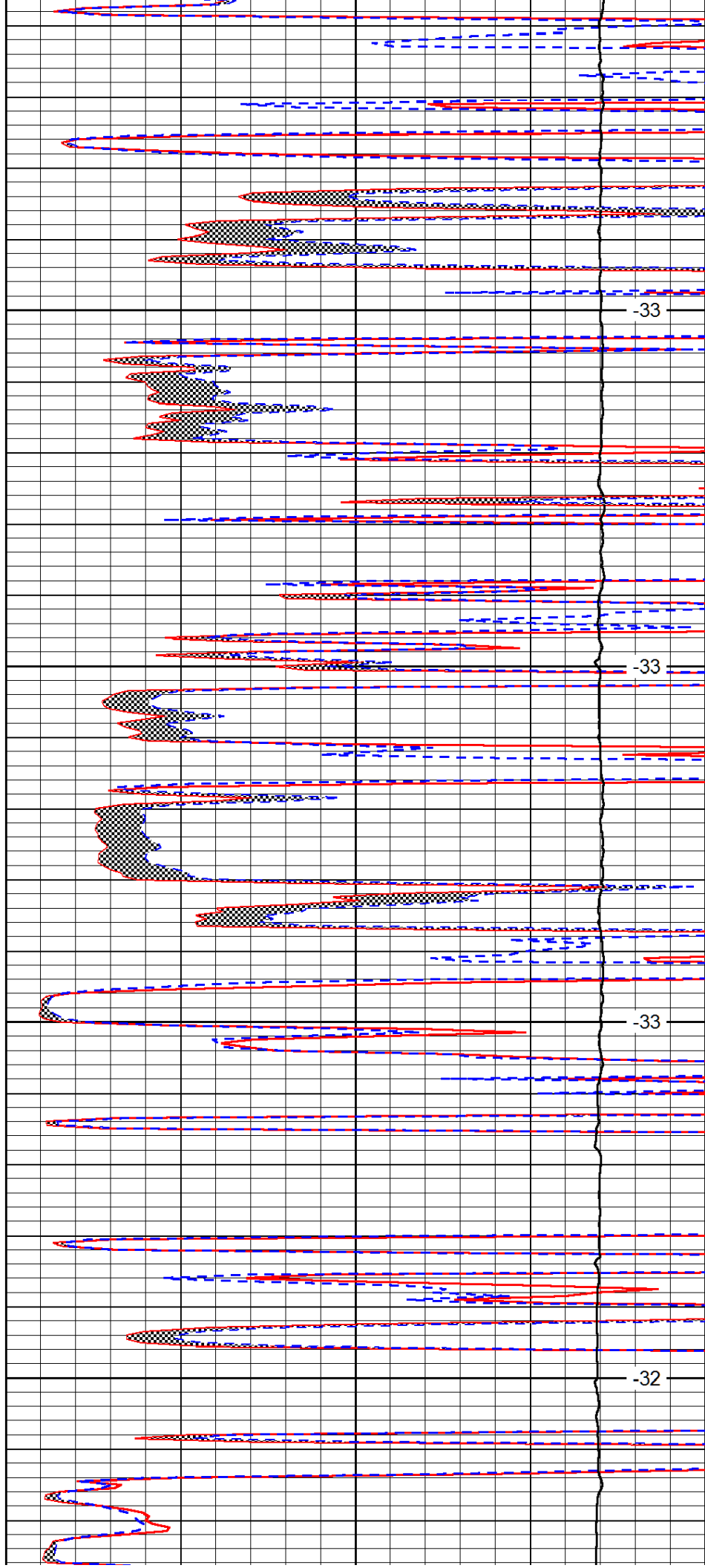


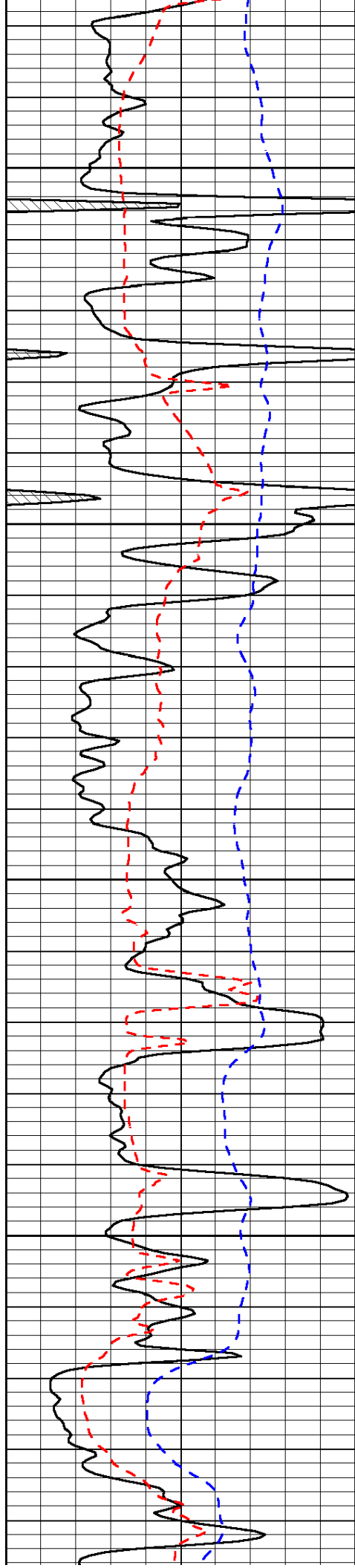
3650

3700

3750

3800



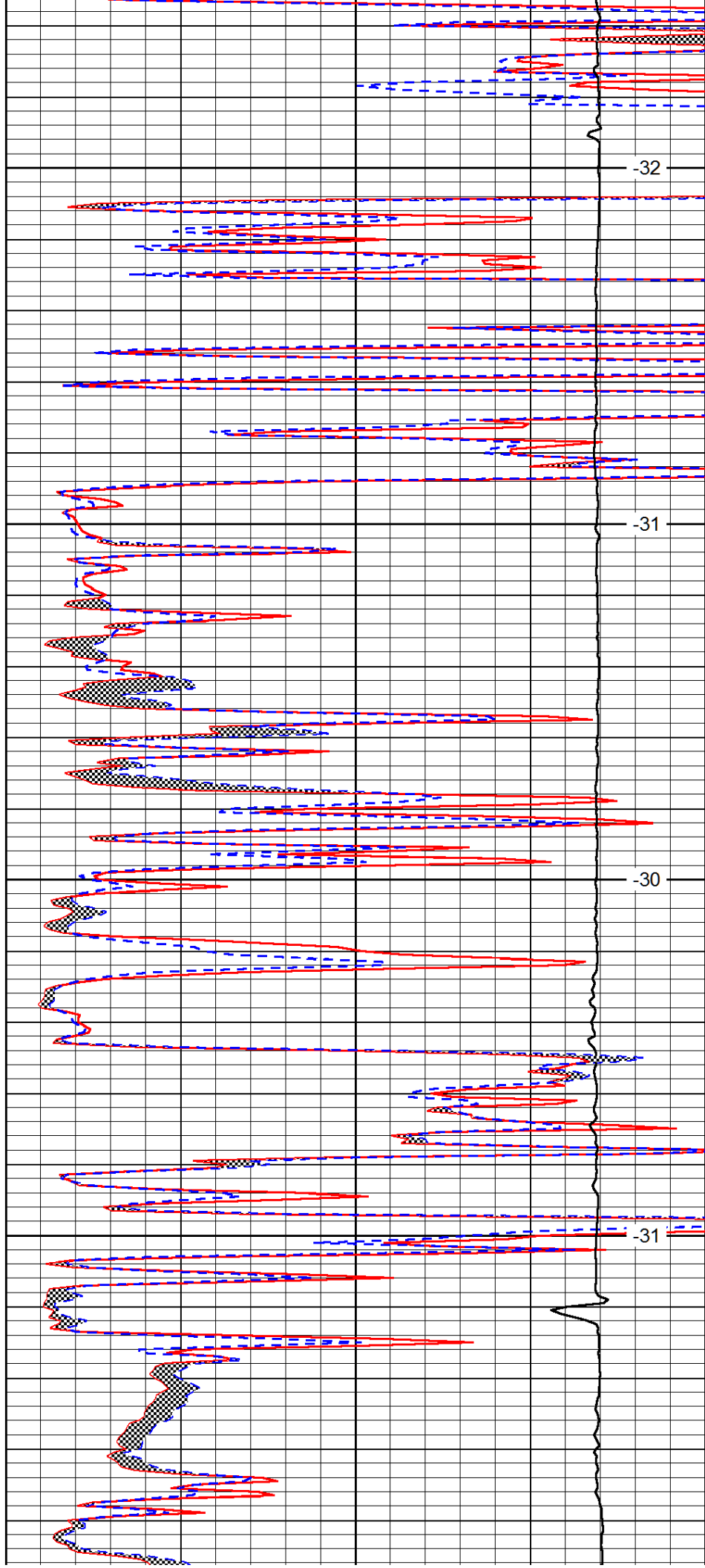


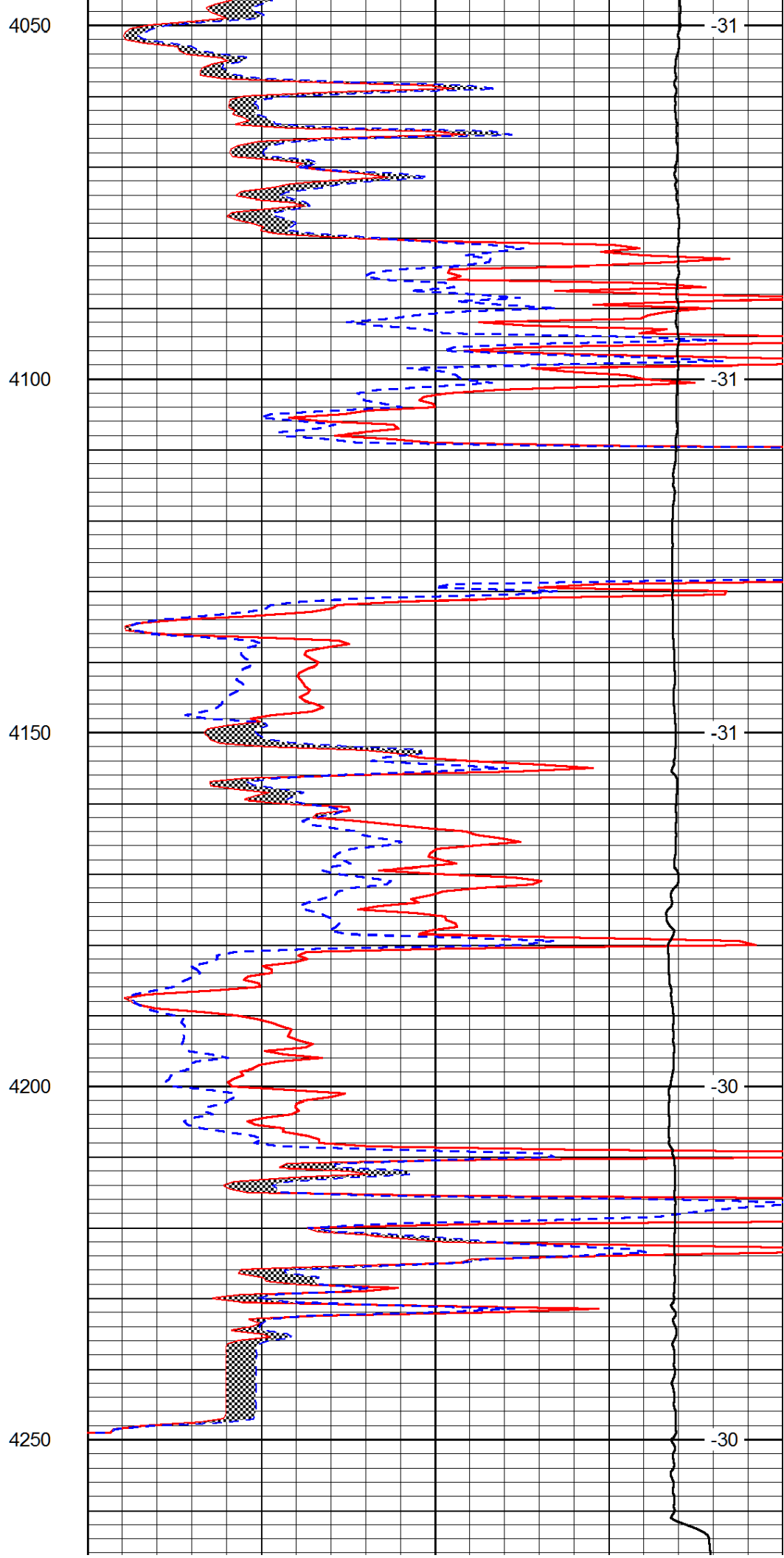
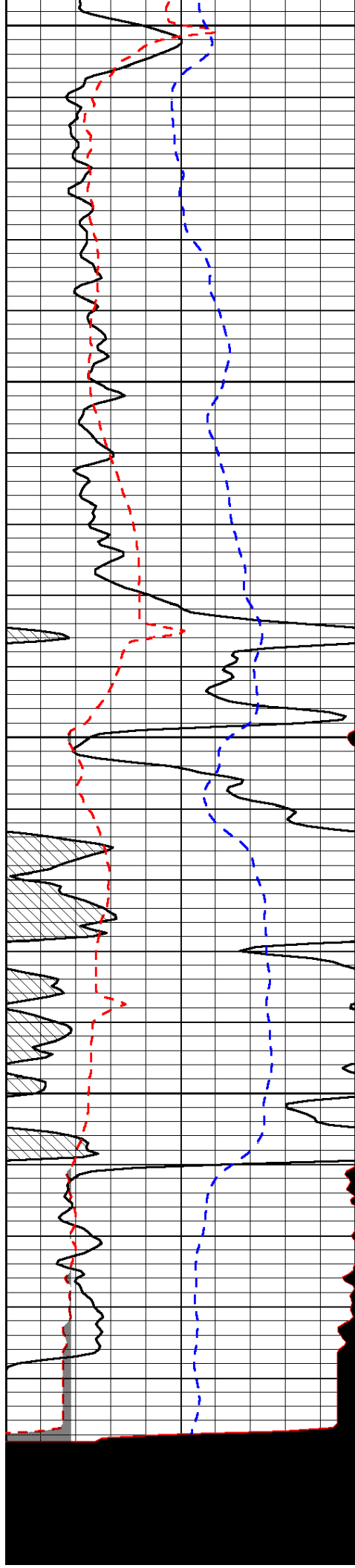
3850

3900

3950

4000





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