



Microresistivity Log

Pioneer Energy Services

API No.

15-167-24,013-00-00

Company TDI, Inc.

Well Zamecnik #1

Field

County Russell

State

Kansas

Location

820' FSL & 1005' FWL

Sec: 8

Twp: 11S

Rge: 11W

Elevation

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 1617
K.B. 1627
D.F. 1617
G.L. 1617

Date 11/15/2014

Run Number Two

Depth Driller 3950

Depth Logger 3950

Bottom Logged Interval 3949

Top Log Interval 2000

Casing Driller 8.625 @ 222

Casing Logger 221

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 9.800

Density / Viscosity 9.4 50

pH / Fluid Loss 11.0 7.4

Source of Sample Flowline

Rm @ Meas. Temp .45 @ 51

Rmf @ Meas. Temp .34 @ 51

Rmc @ Meas. Temp .61 @ 51

Source of Rmf / Rmc Charts

Rm @ BHT .2 @ 116

Operating Rig Time 4 Hours

Max Rec. Temp. F 116

Equipment Number 51

Location Hays

Recorded By C. Desaire

Witnessed By Tom Denning

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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

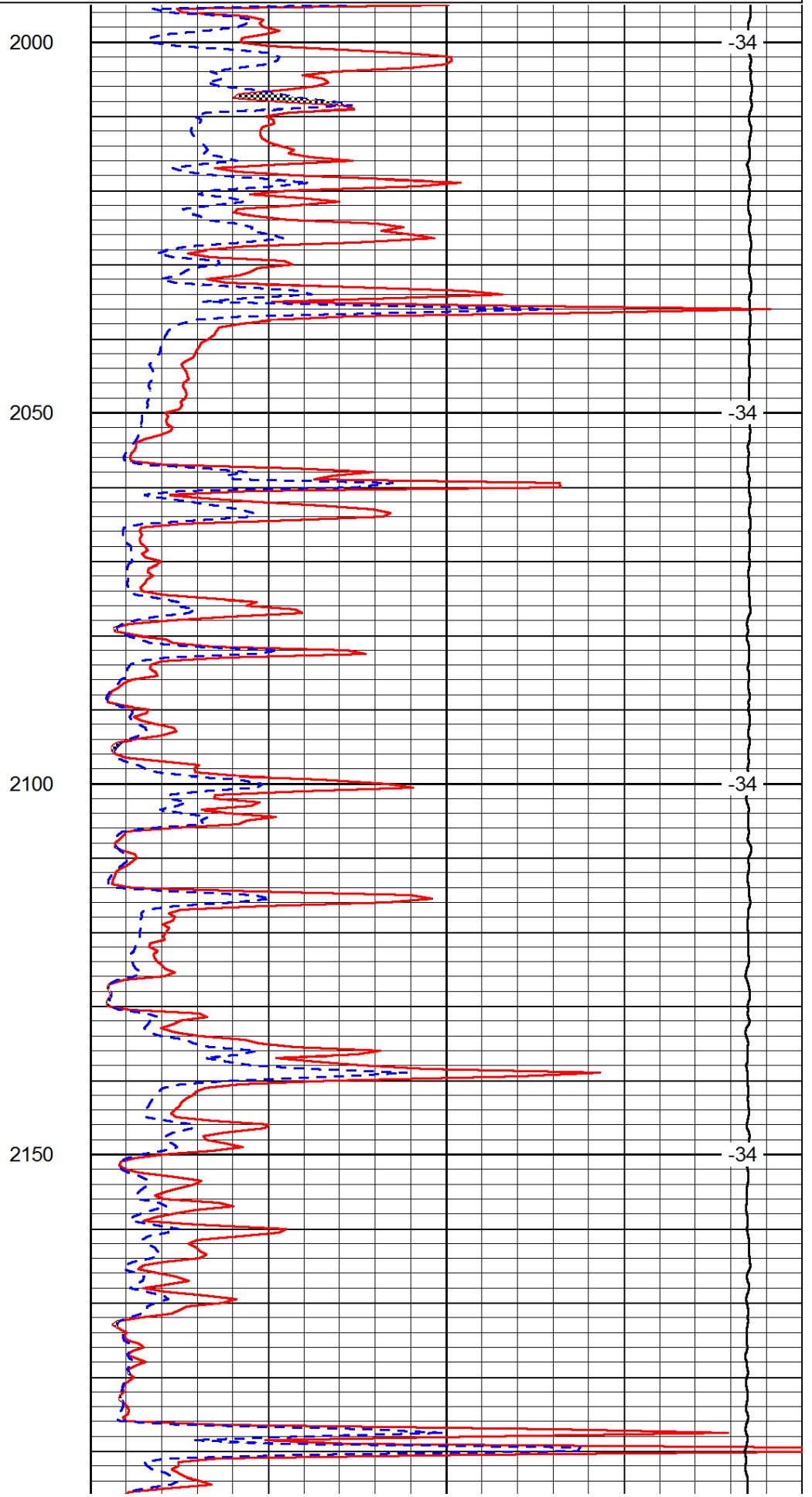
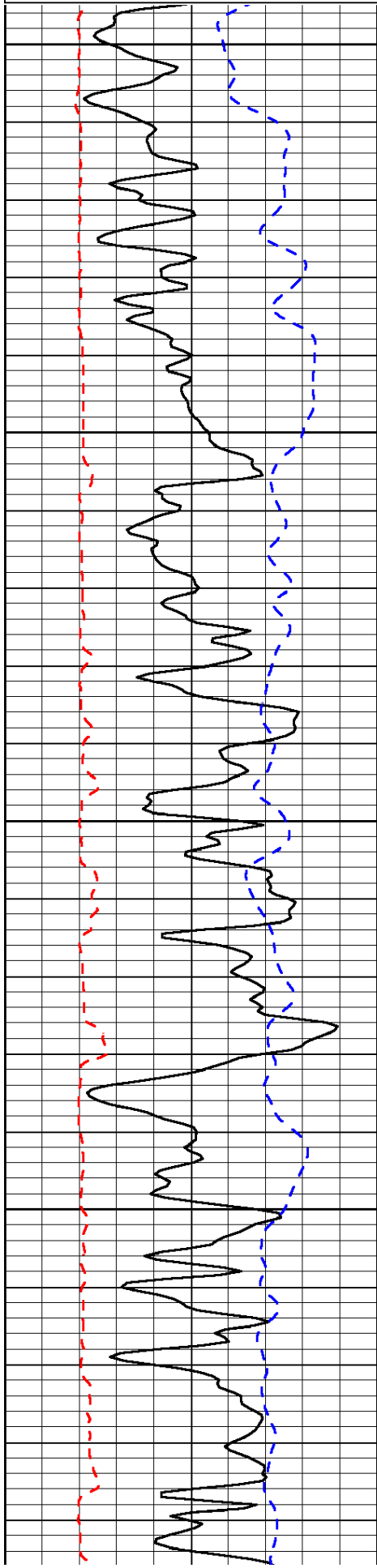
Lucas KS, W to 201 Rd, 2 1/2 N,
Left at Y thru 2 cattle guards, 1/8 N, 1/8 E, N Into

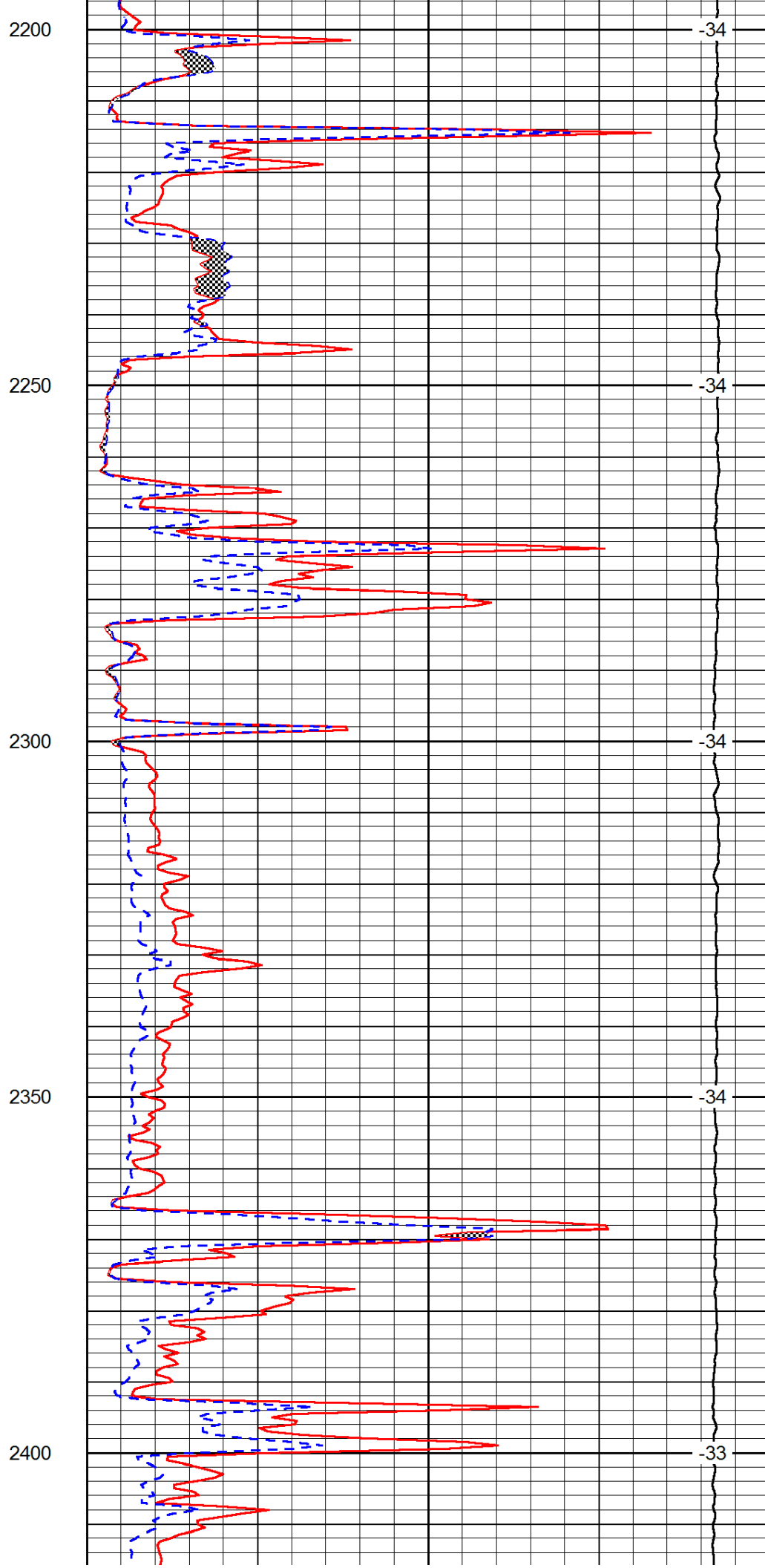
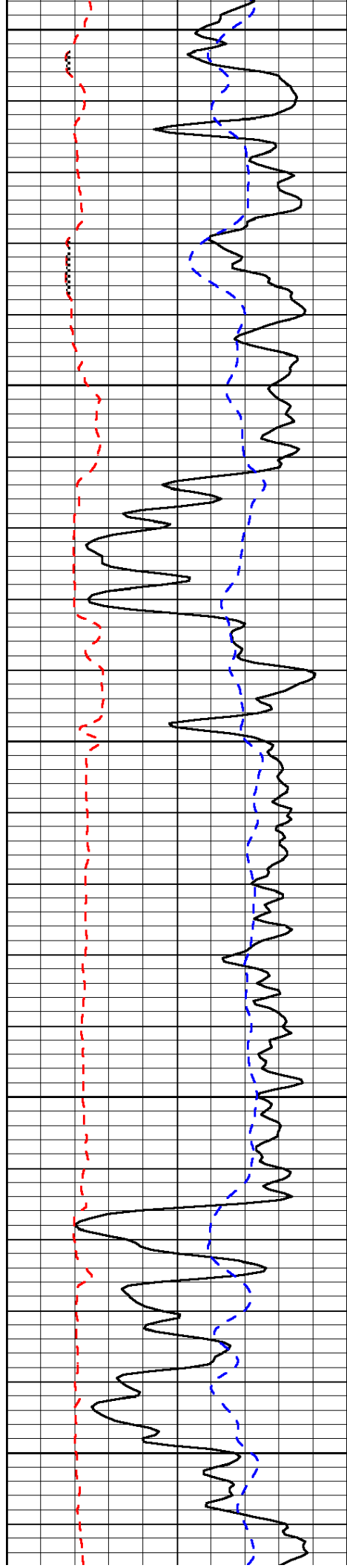
Database File: c:\warrior\data\tdi_zamecnik #1\tdihd.db
Dataset Pathname: dil\tdistk
Presentation Format: micro
Dataset Creation: Sat Nov 15 11:20:28 2014
Charted by: Depth in Feet scaled 1:240

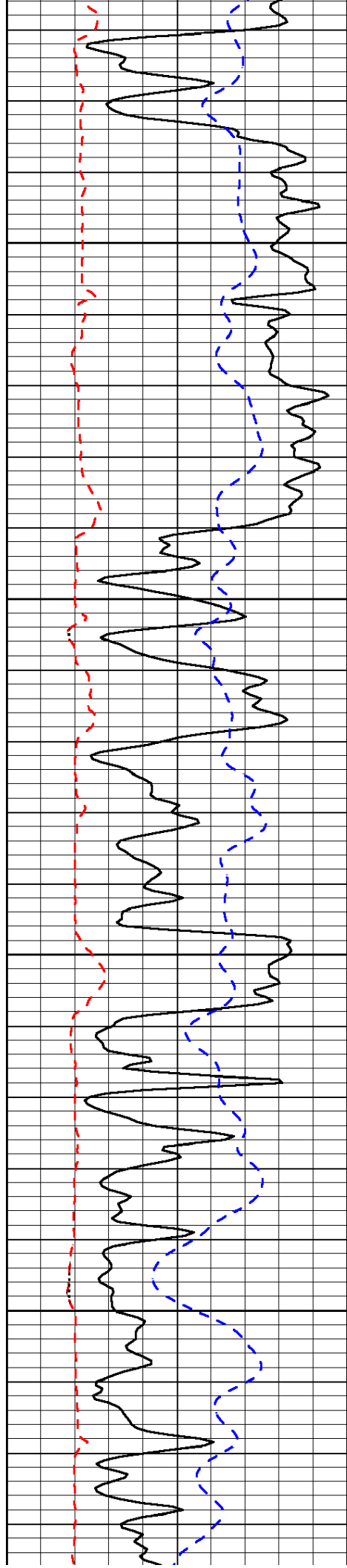
0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0

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

LSPD





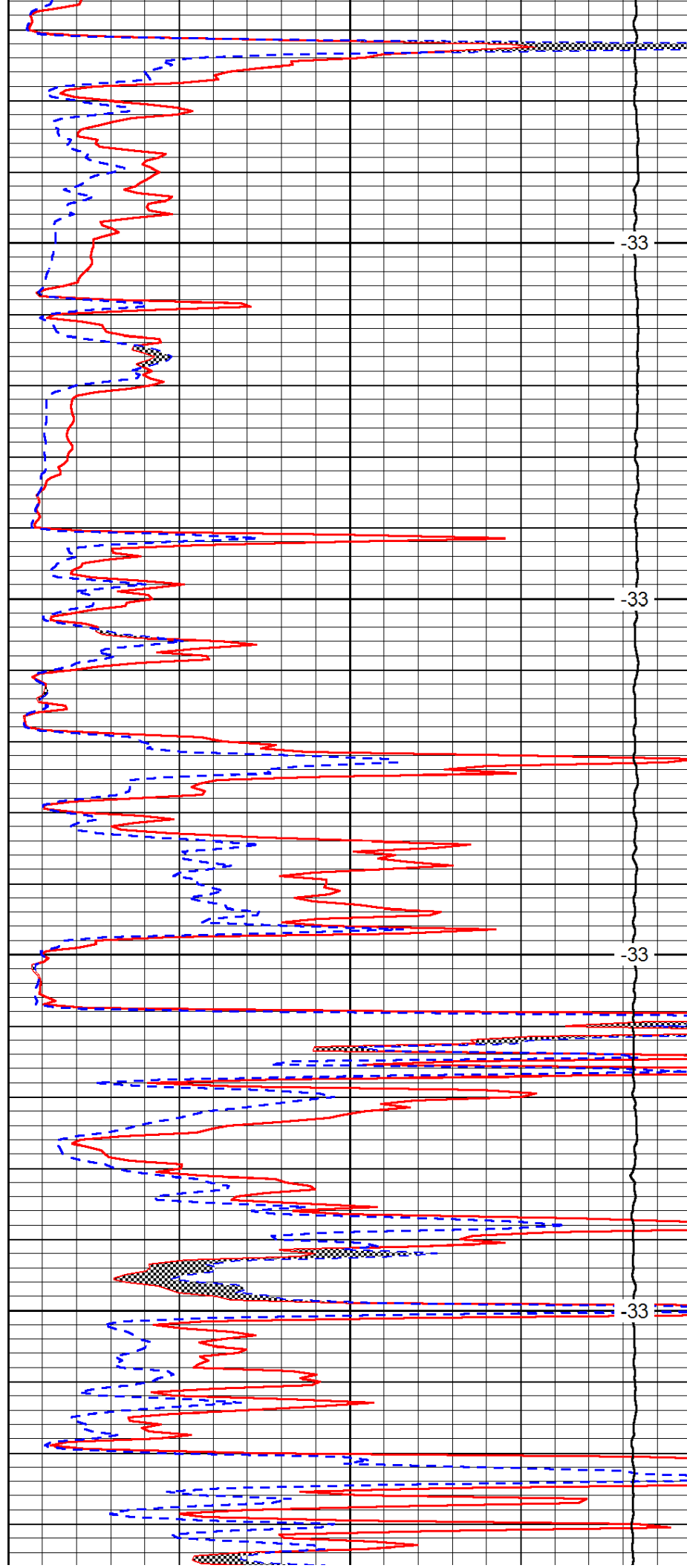


2450

2500

2550

2600

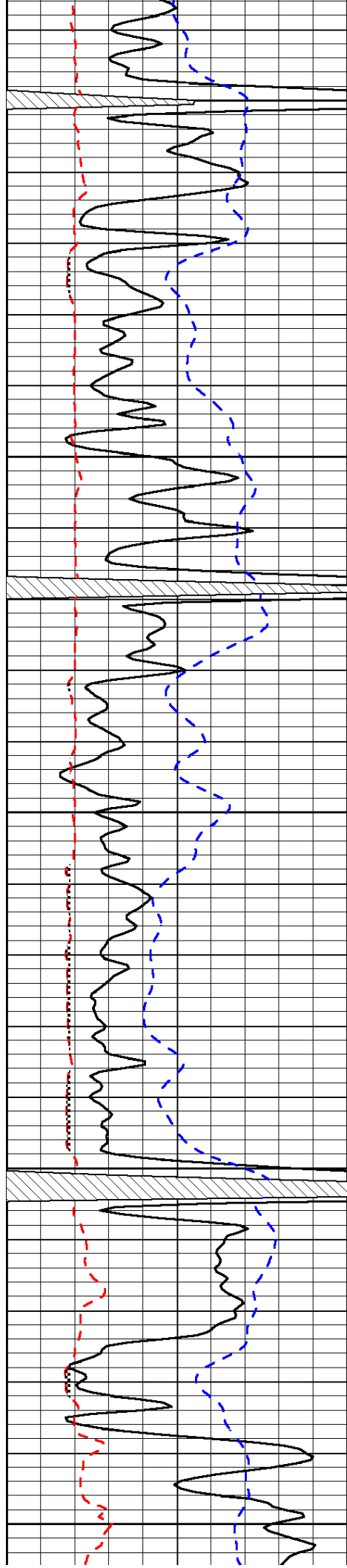


-33

-33

-33

-33



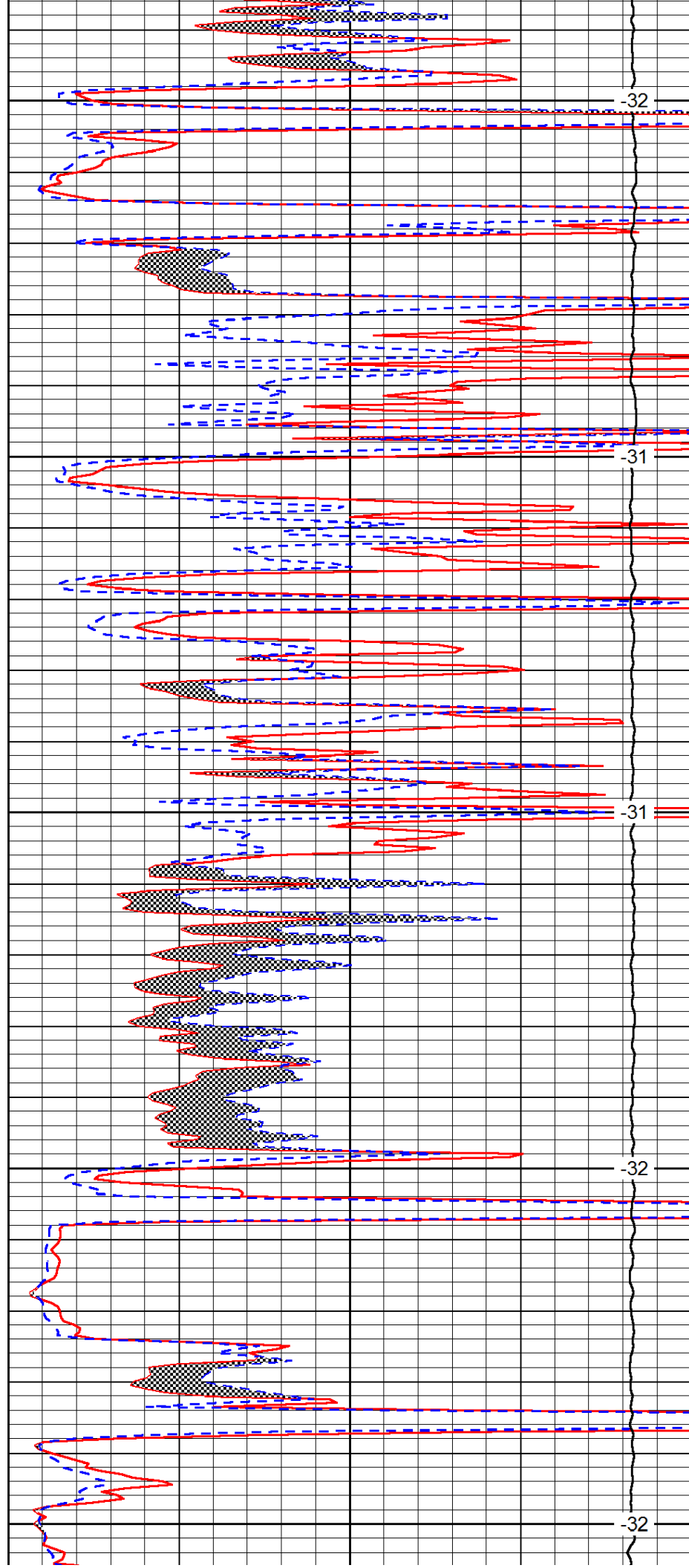
2650

2700

2750

2800

2850



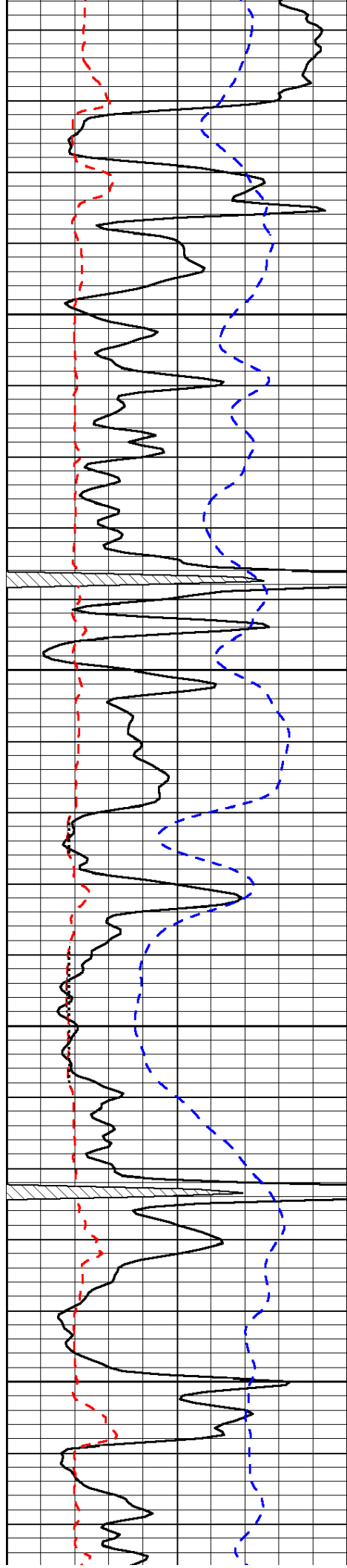
-32

-31

-31

-32

-32

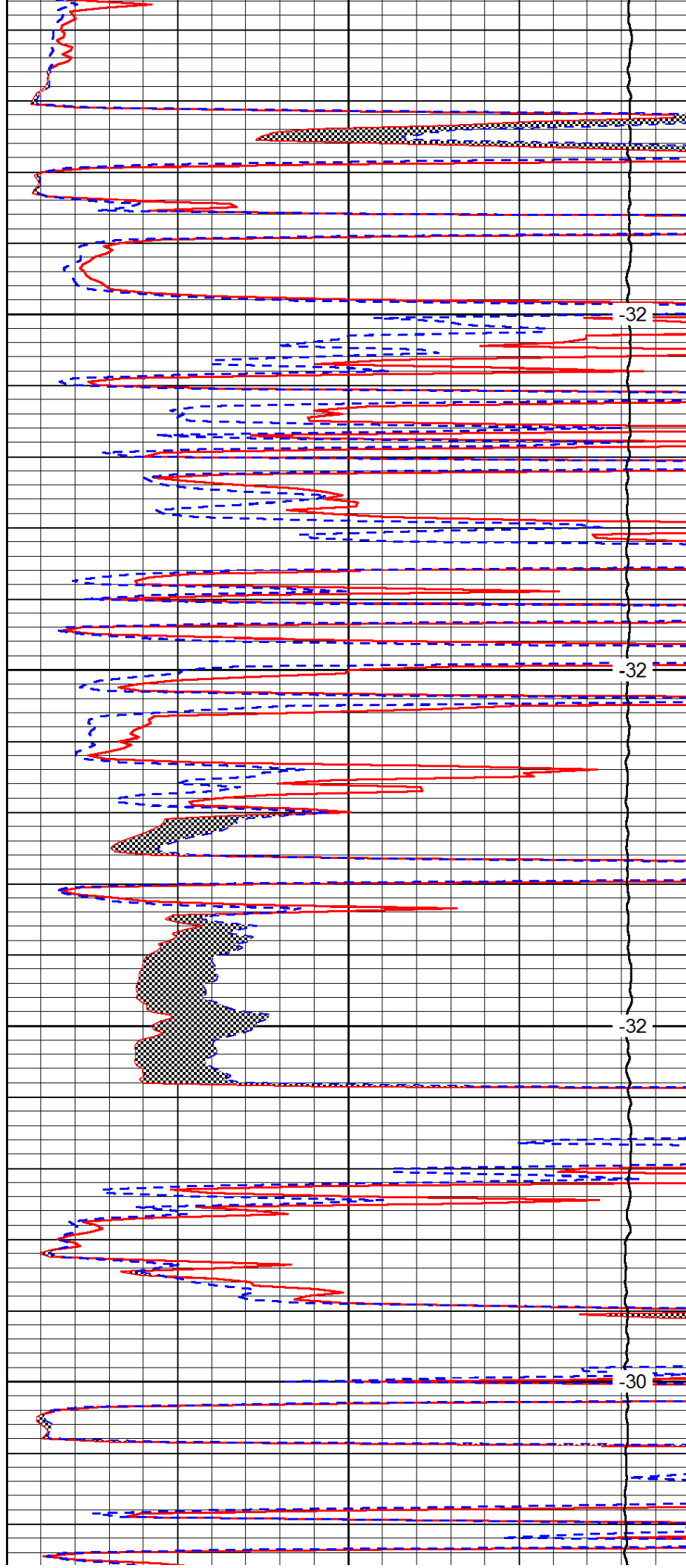


2900

2950

3000

3050

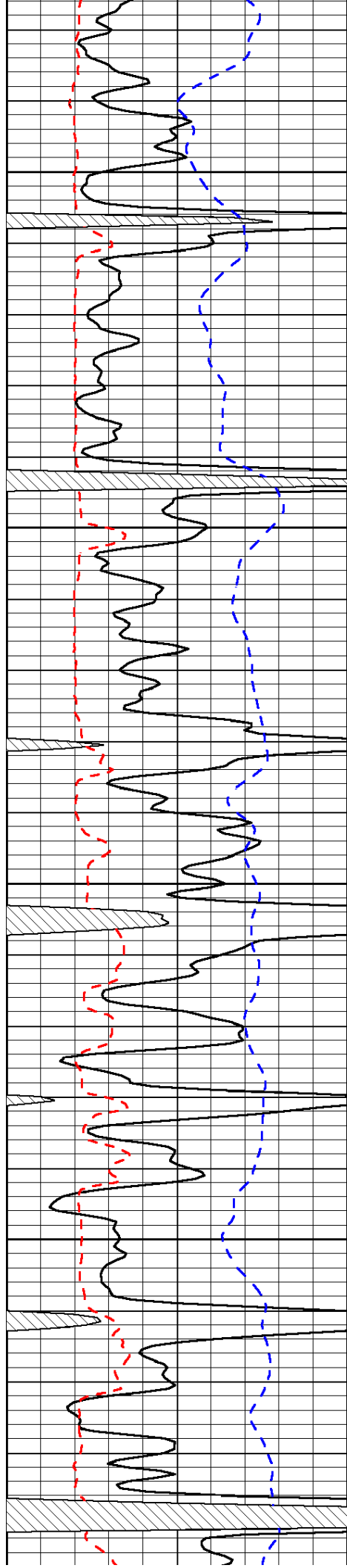


-32

-32

-32

-30

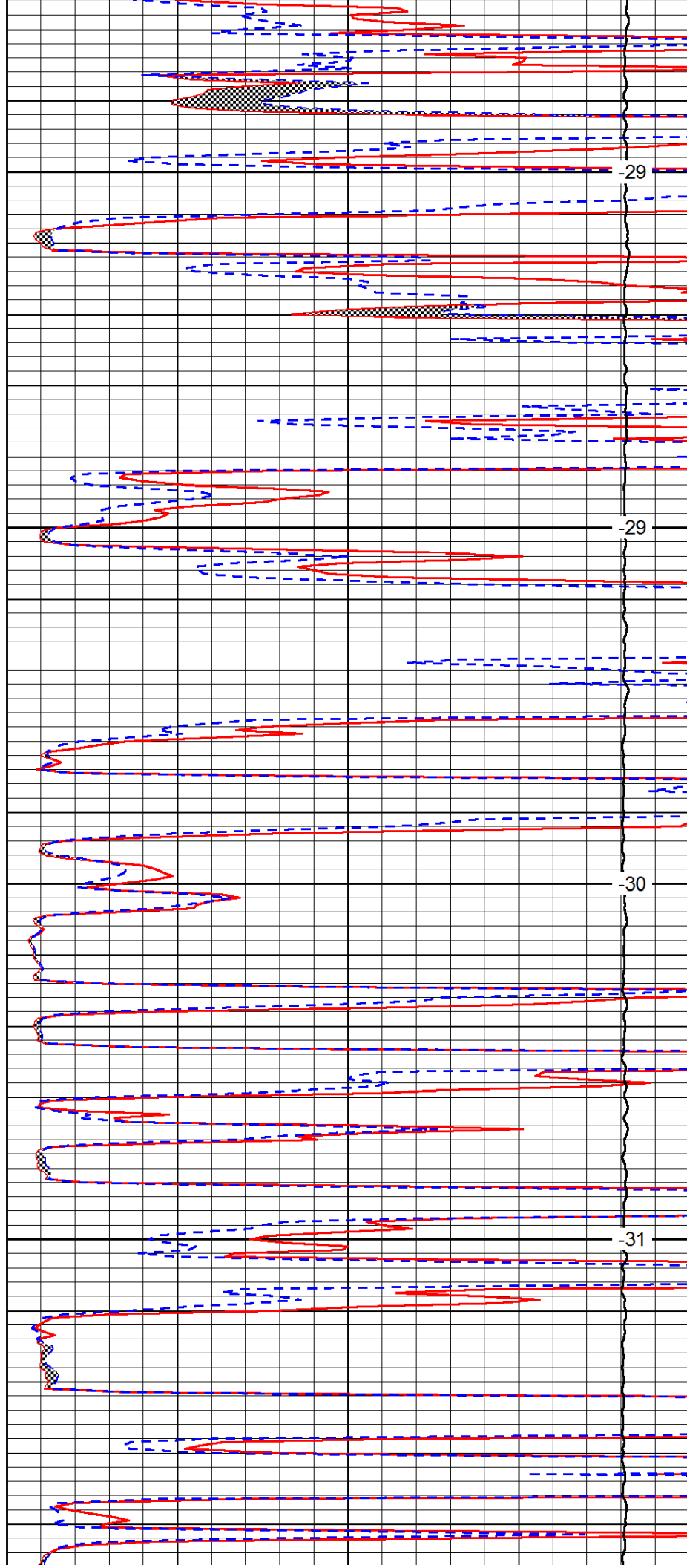


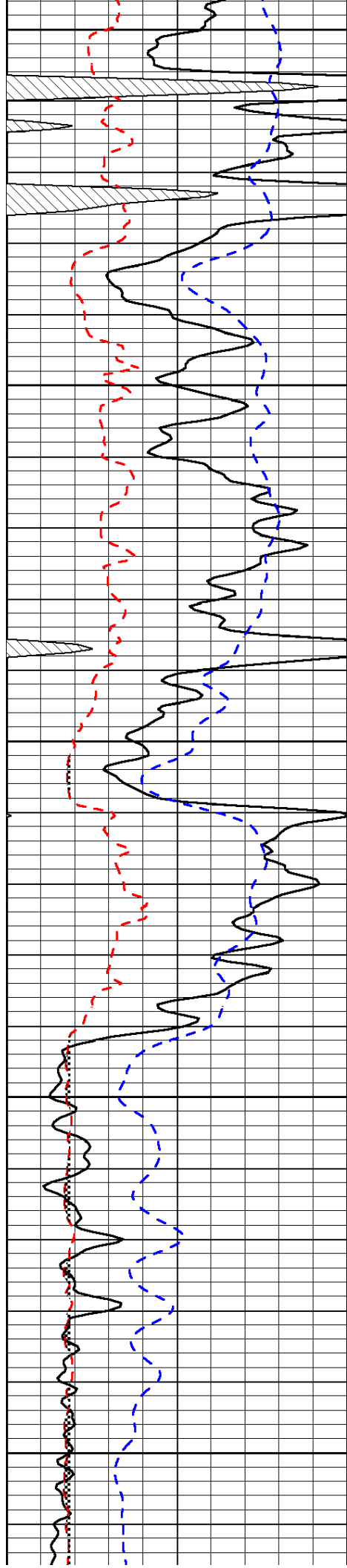
3100

3150

3200

3250





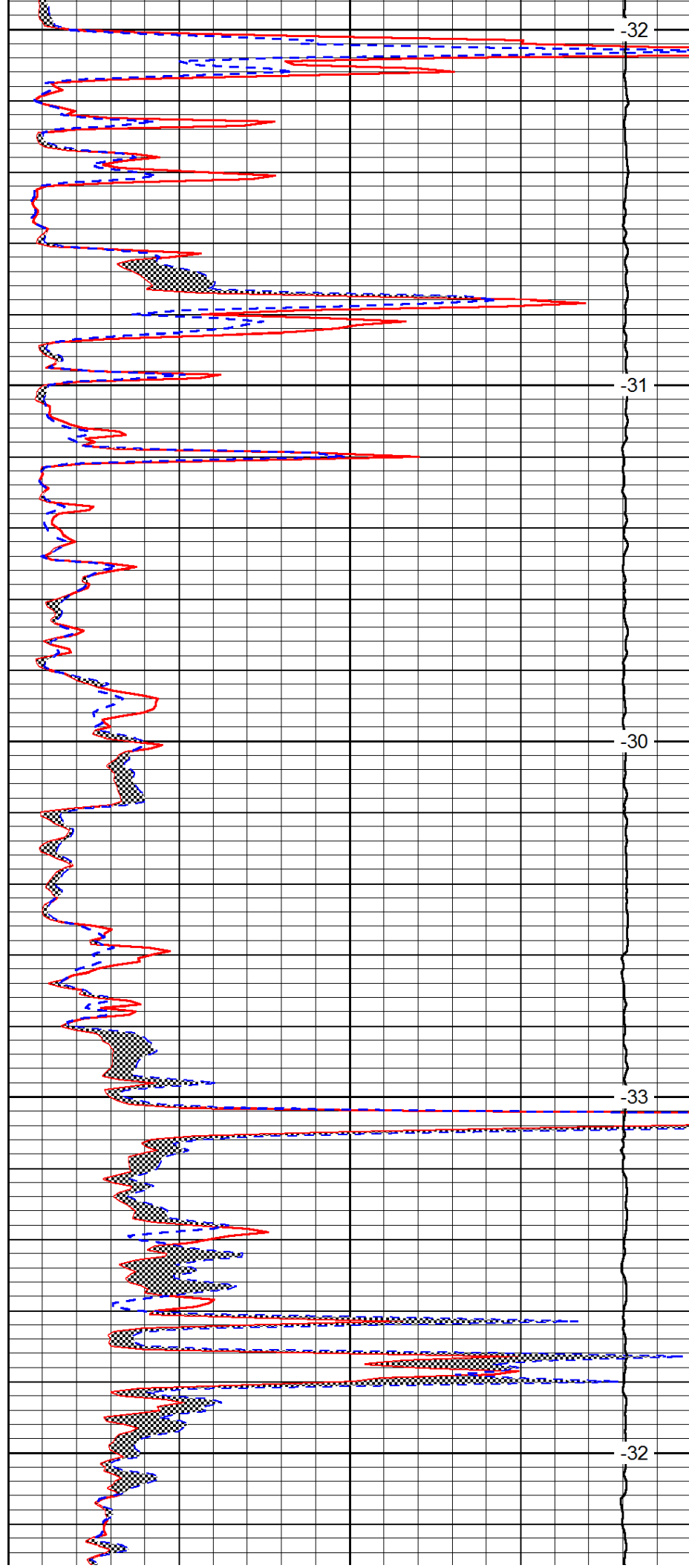
3300

3350

3400

3450

3500



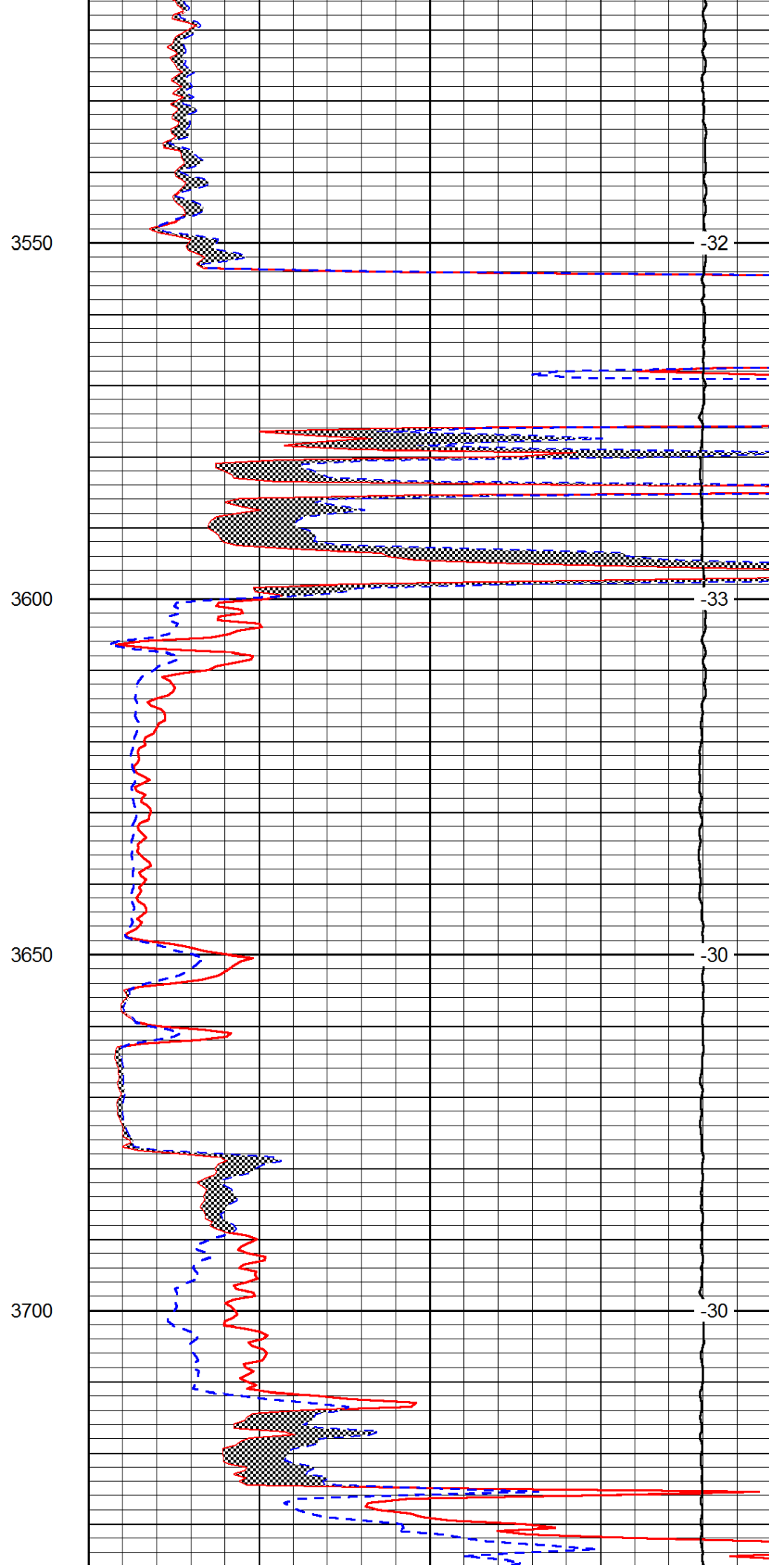
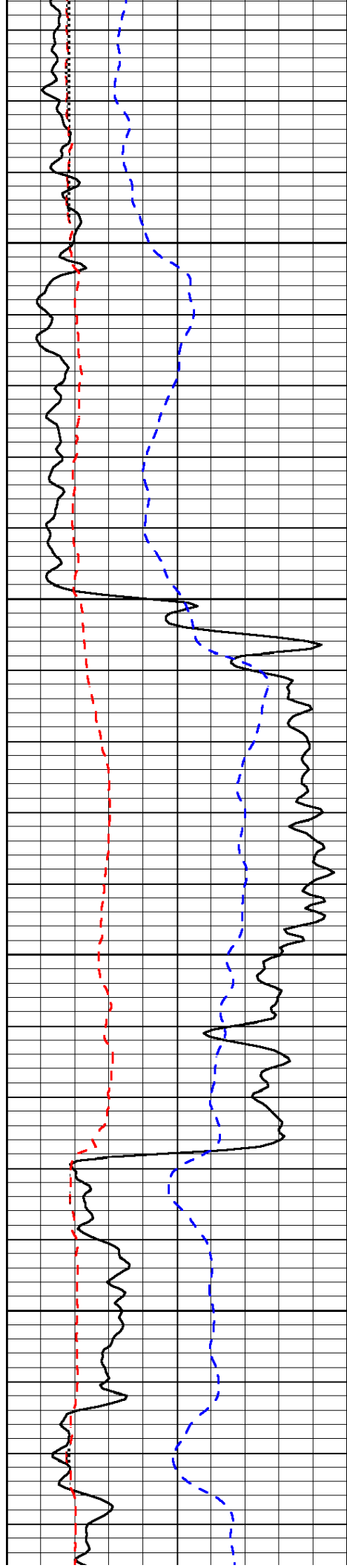
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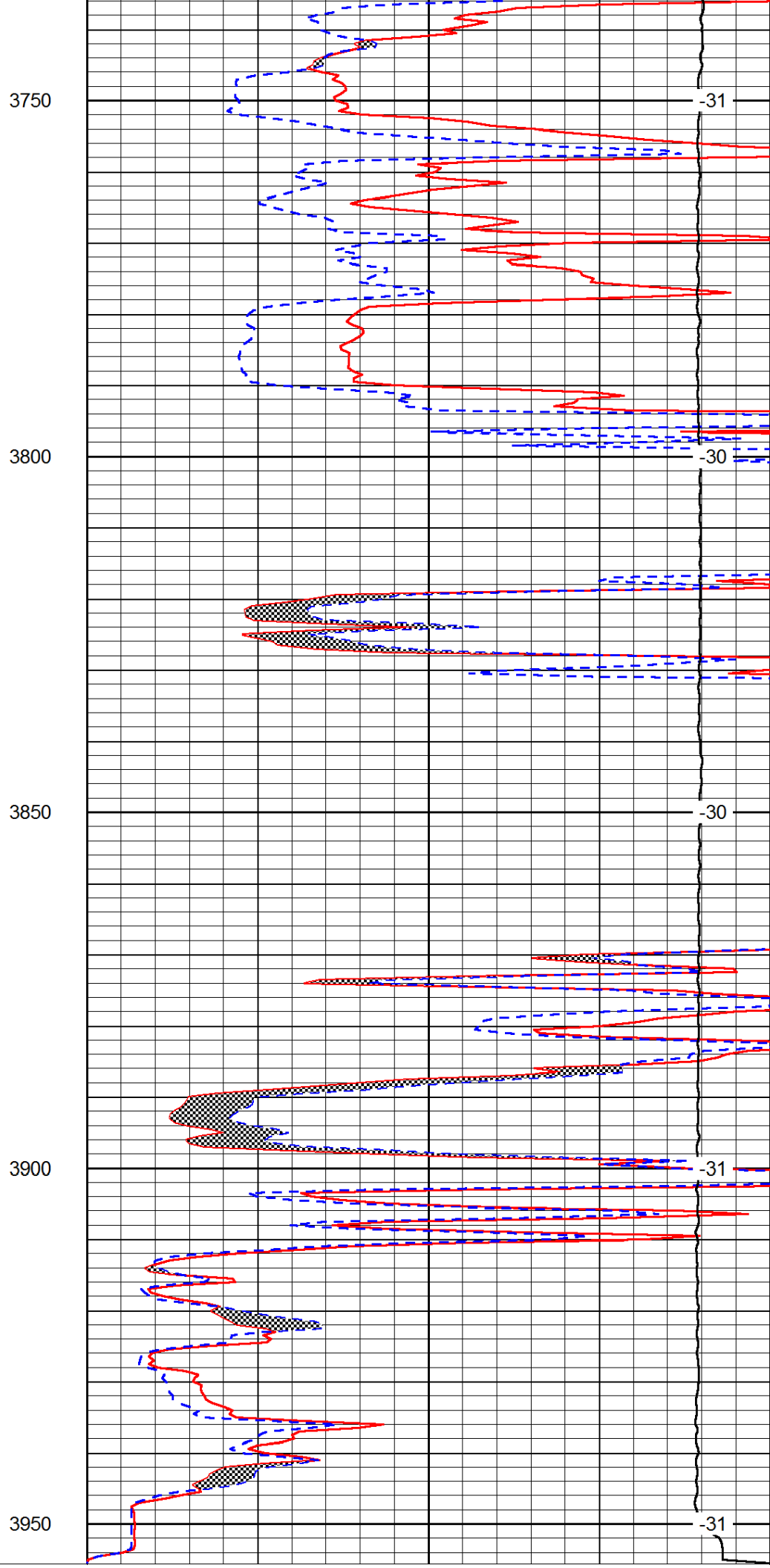
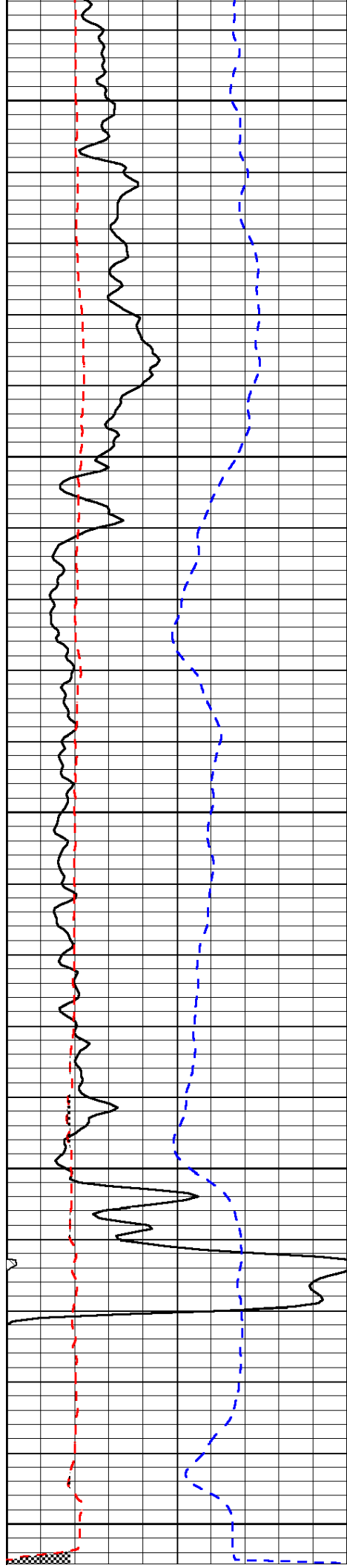
-31

-30

-33

-32





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