



Microresistivity Log

Pioneer Energy Services

API No.

15-109-21,341-00-00

Company **Black Tea Oil, LLC**

Well **DFK 3 # 1**

Field **Bridges**

County **Logan**

State

Kansas

Location

**SW-NE-NW-NE
673' FNL & 1769' FEL**

Sec: **11**

Twp: **15S**

Rge: **32W**

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum

Ground Level

Elevation

Log Measured From

Kelly Bushing

K.B. 2725
D.F.
G.L. 2716

Drilling Measured From Kelly Bushing

Date

10/18/2014

Run Number

Two

Depth Driller

4440

Depth Logger

4473

Bottom Logged Interval

4472

Top Log Interval

3000

Casing Driller

8.625 @ 274

Casing Logger

260

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

3.000

Density / Viscosity

9.1 45

pH / Fluid Loss

10.5 6.4

Source of Sample

Flowline

Rm @ Meas. Temp

.58 @ 61

Rmf @ Meas. Temp

.44 @ 61

Rmc @ Meas. Temp

.78 @ 61

Source of Rmf / Rmc

Charts

Rm @ BHT

.29 @ 120

Operating Rig Time

5 Hours

Max Rec. Temp. F

120

Equipment Number

108

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Richard Thomasson

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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

Oakley Kansas

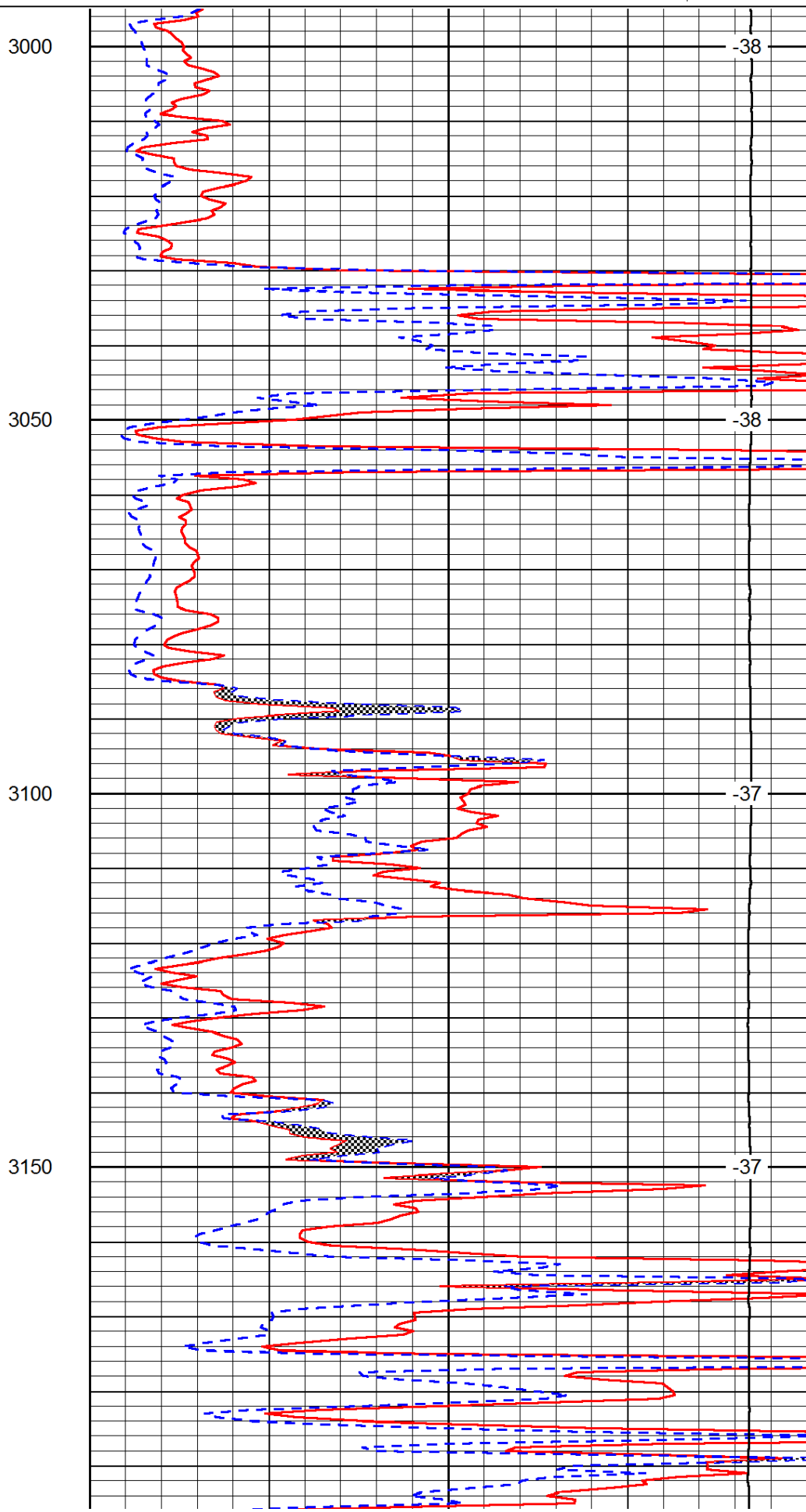
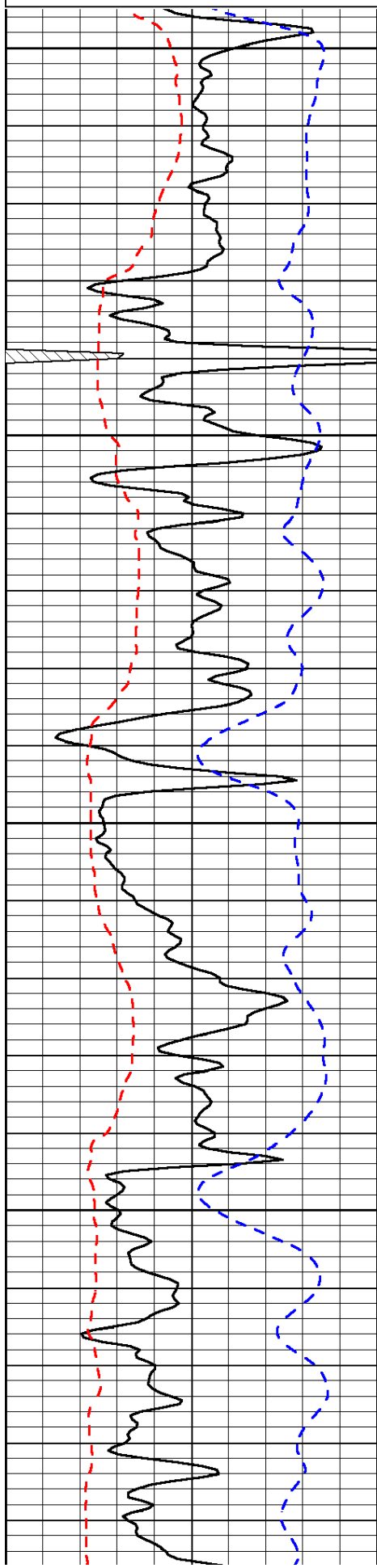
23 South to Gold Rd, East Into(Then South to Rig on Road)

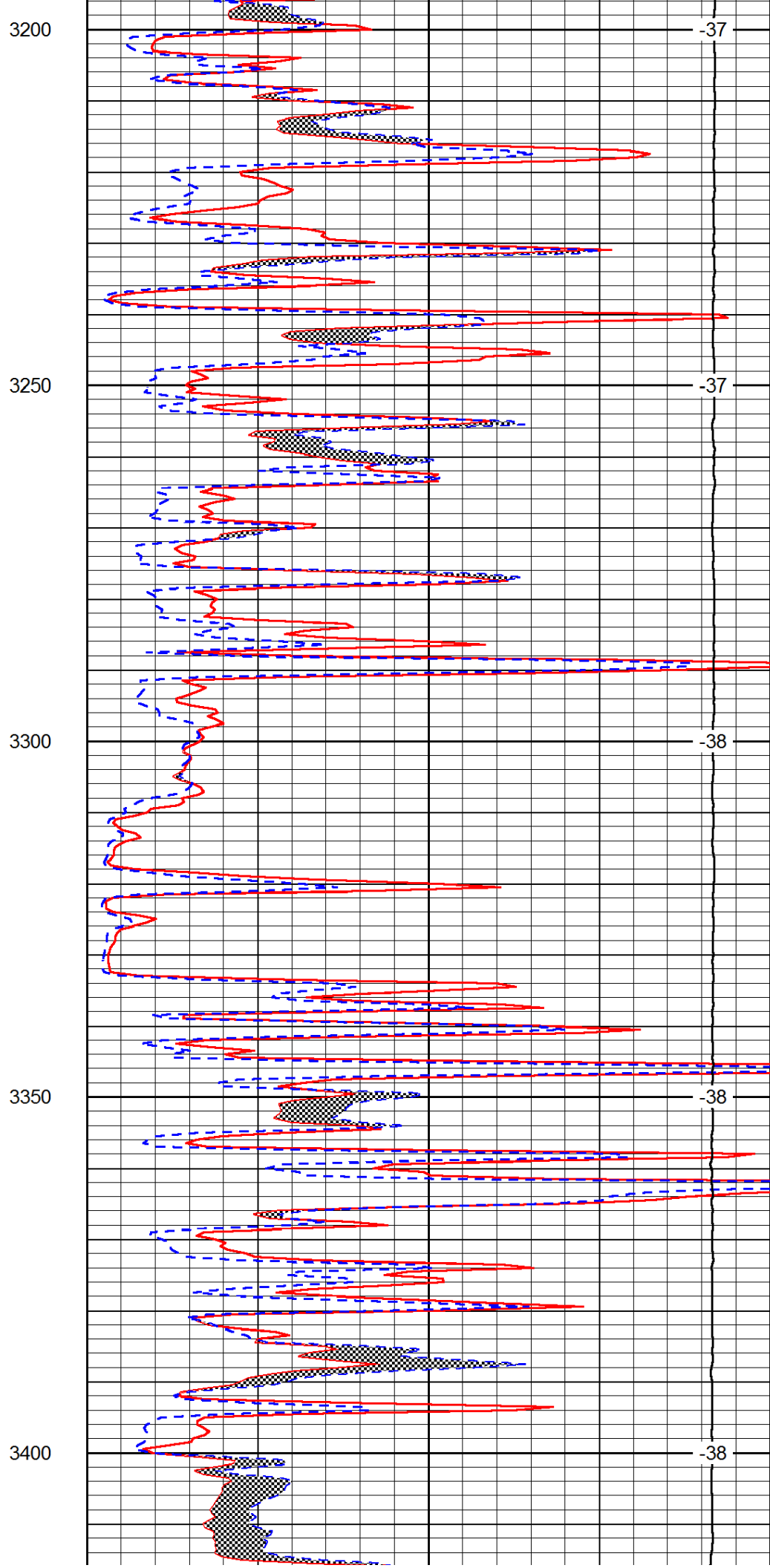
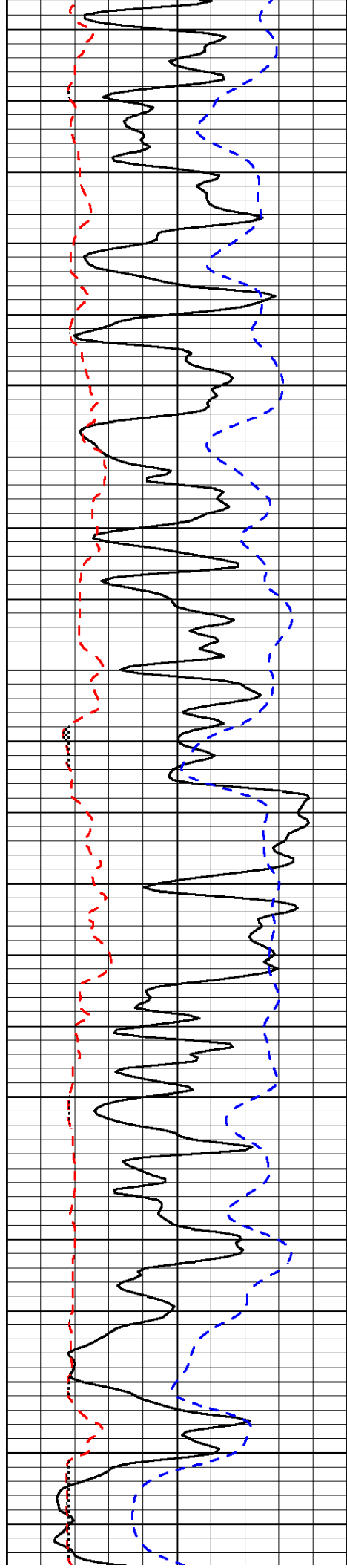
Database File: c:\warrior\data\black tea_dfk 3 #1\black_tea_dfk_3_1hd.db
Dataset Pathname: DIL/btstk
Presentation Format: micro
Dataset Creation: Sat Oct 18 15:26:09 2014
Charted by: Depth in Feet scaled 1:240

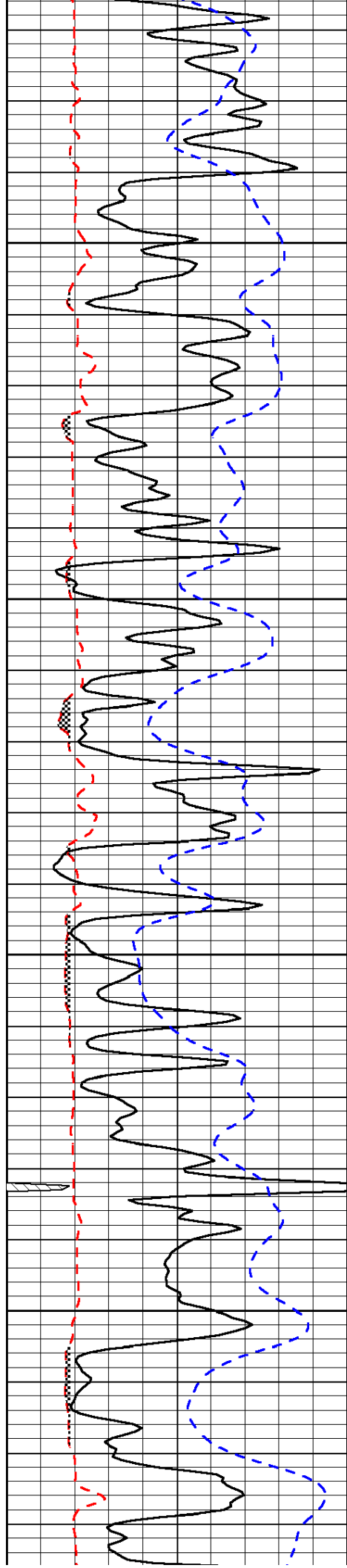
0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0

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

LSPD





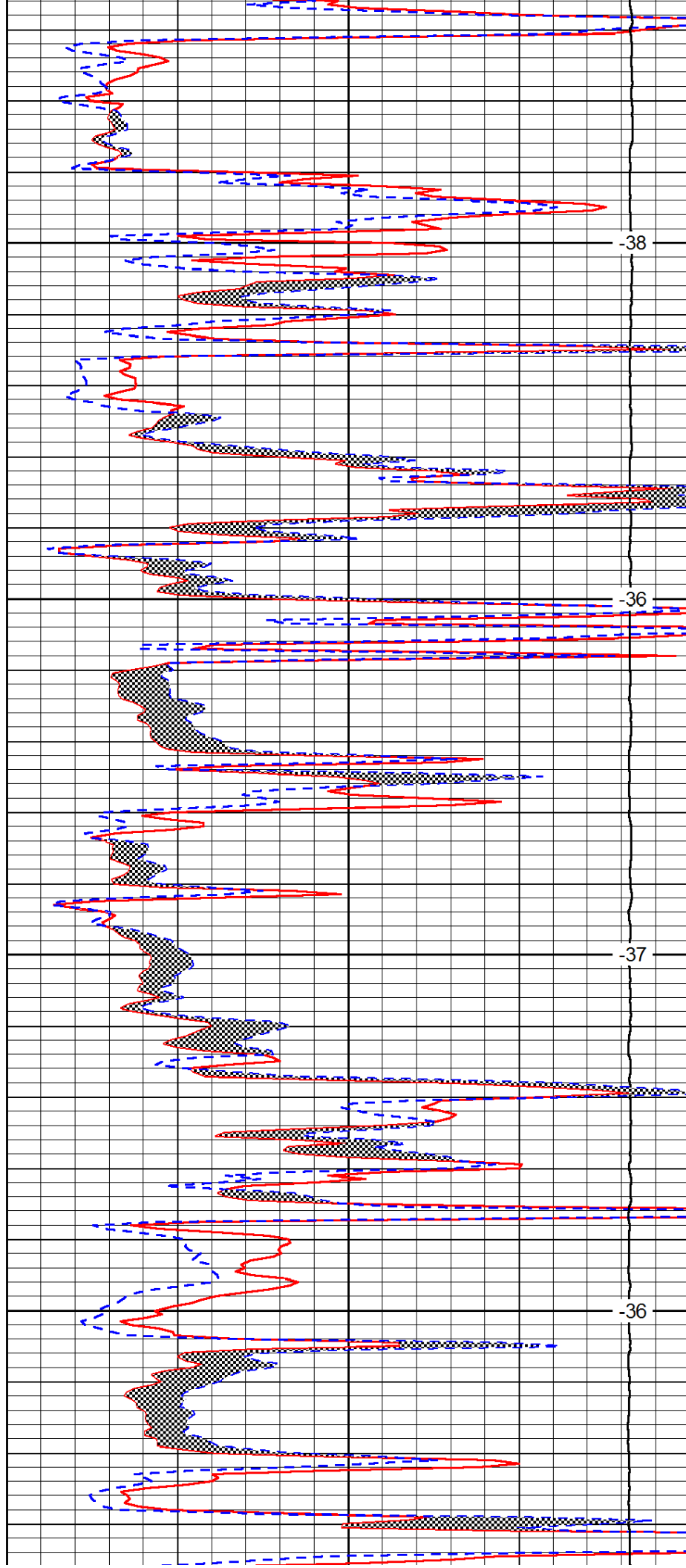


3450

3500

3550

3600

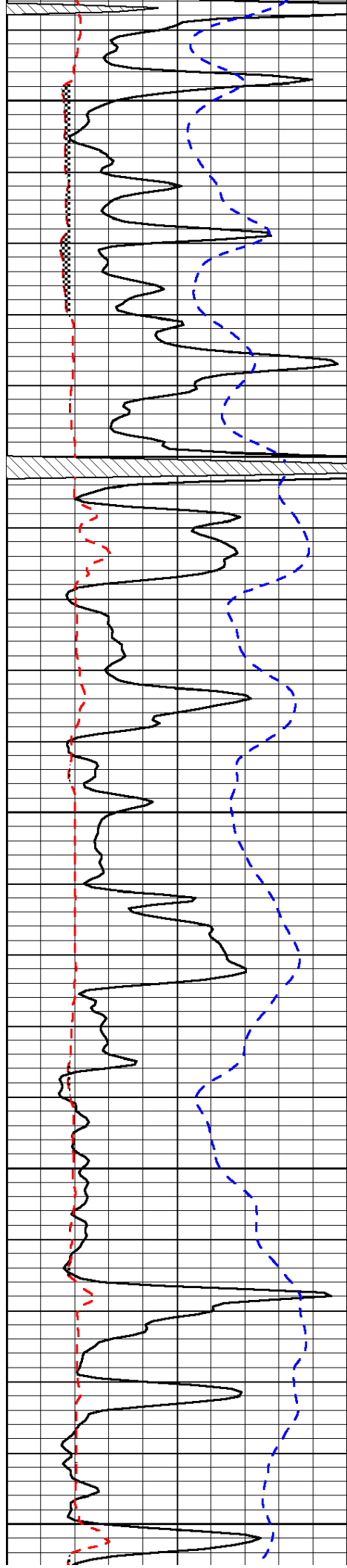


-38

-36

-37

-36



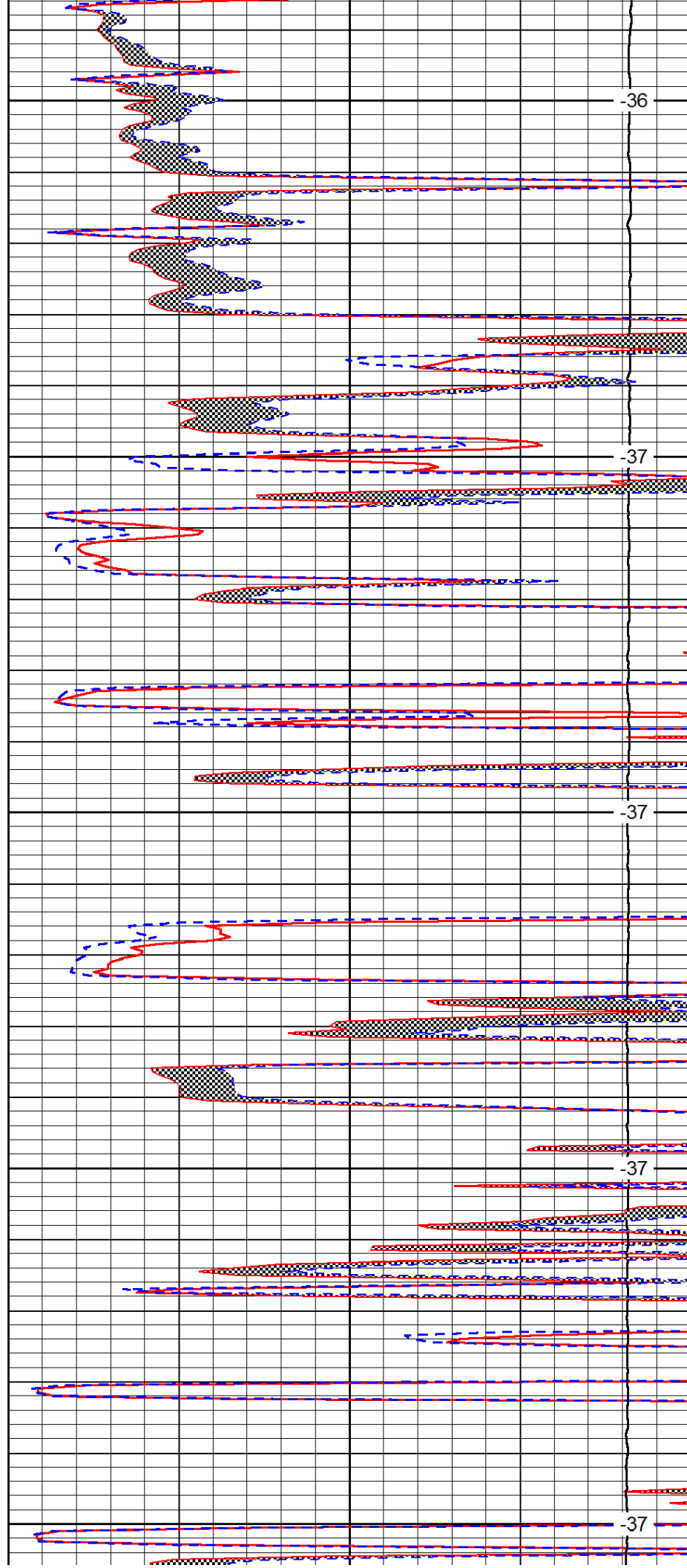
3650

3700

3750

3800

3850



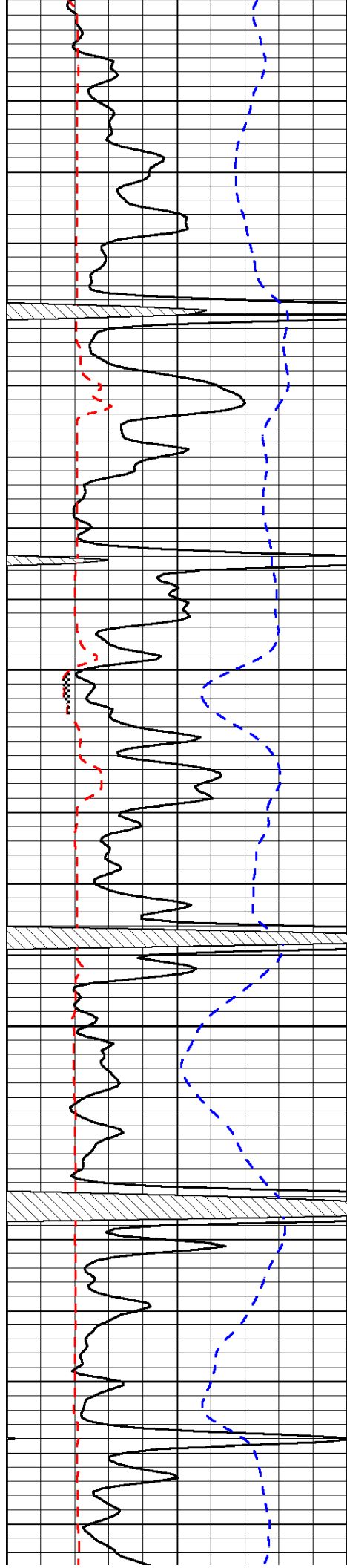
-36

-37

-37

-37

-37

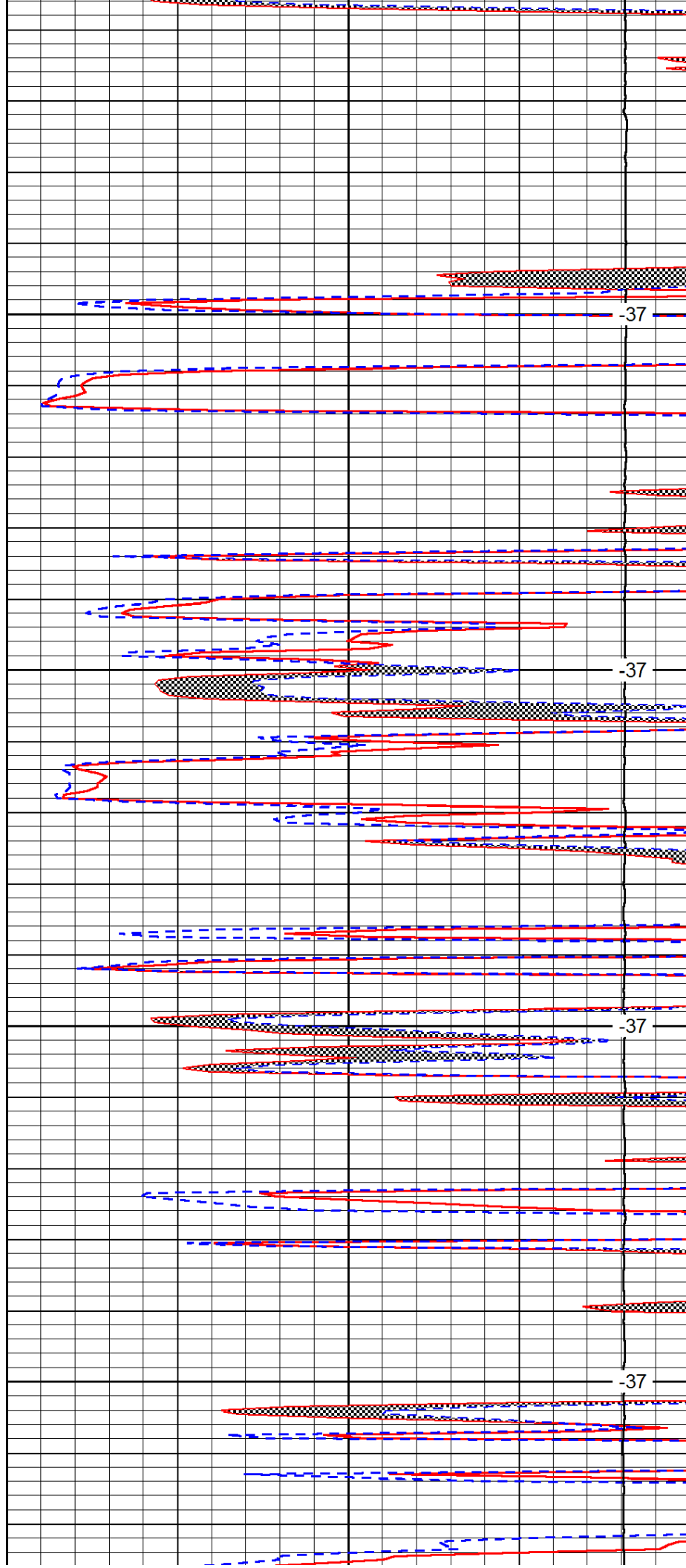


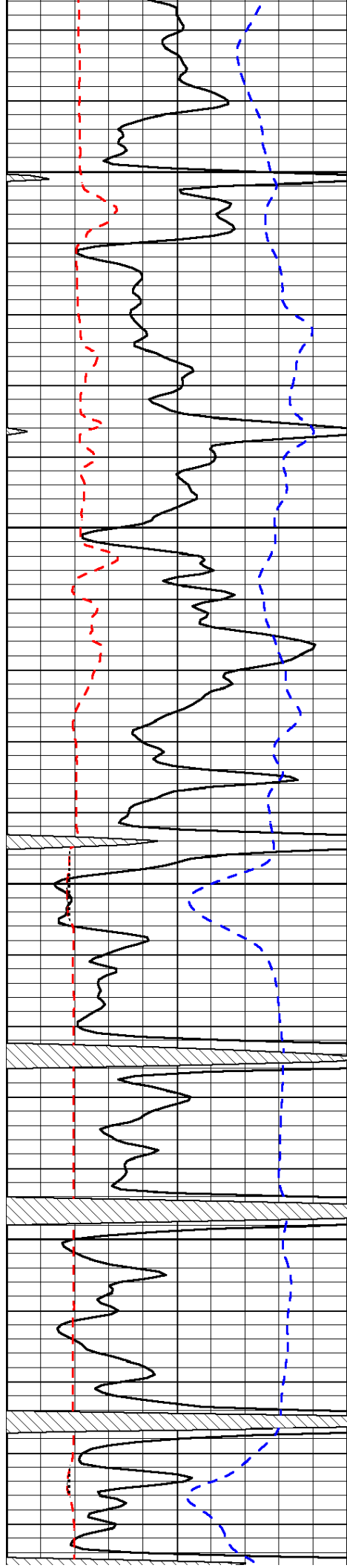
3900

3950

4000

4050



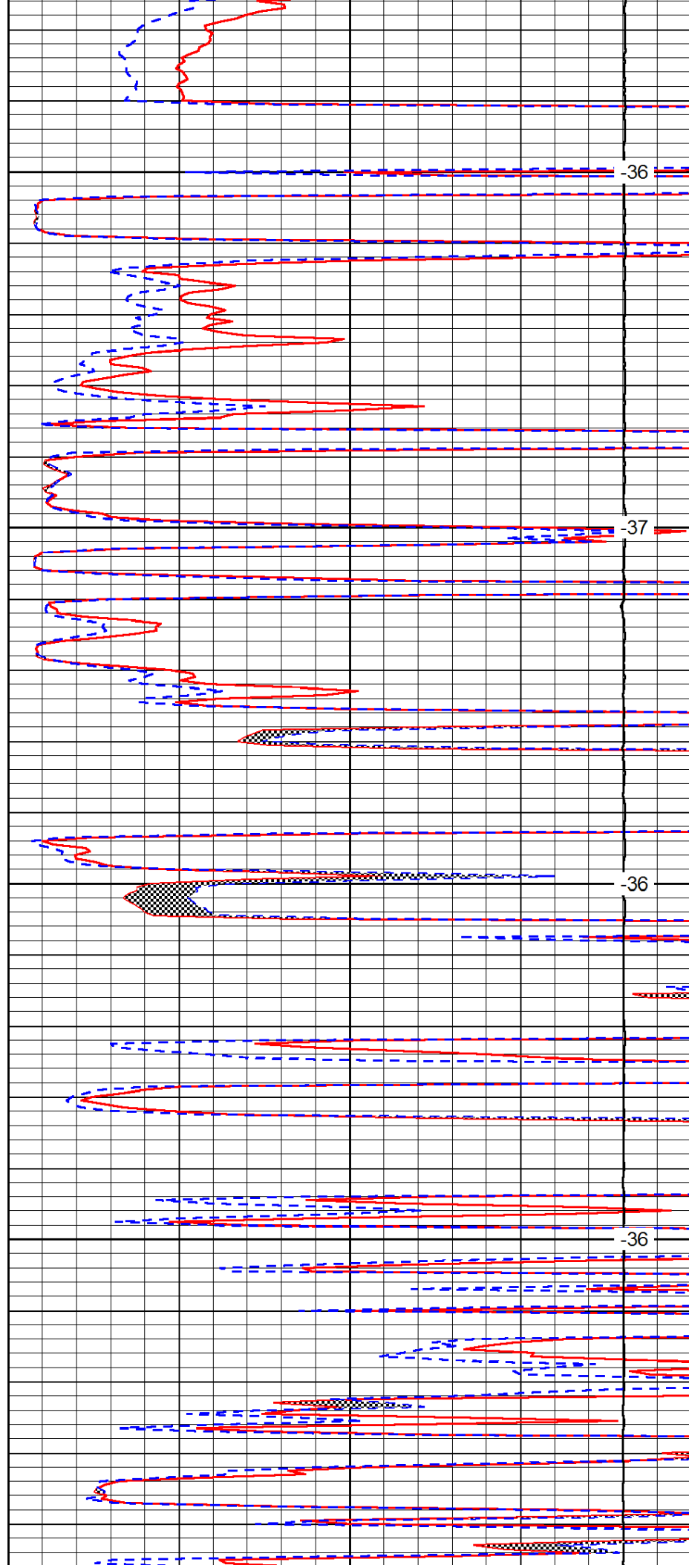


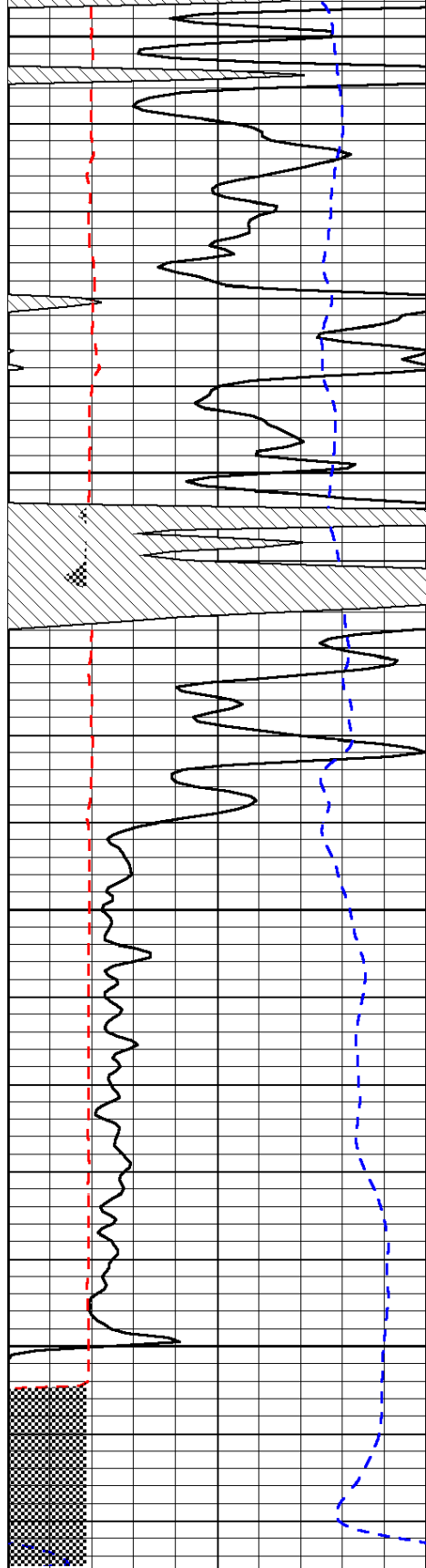
4100

4150

4200

4250





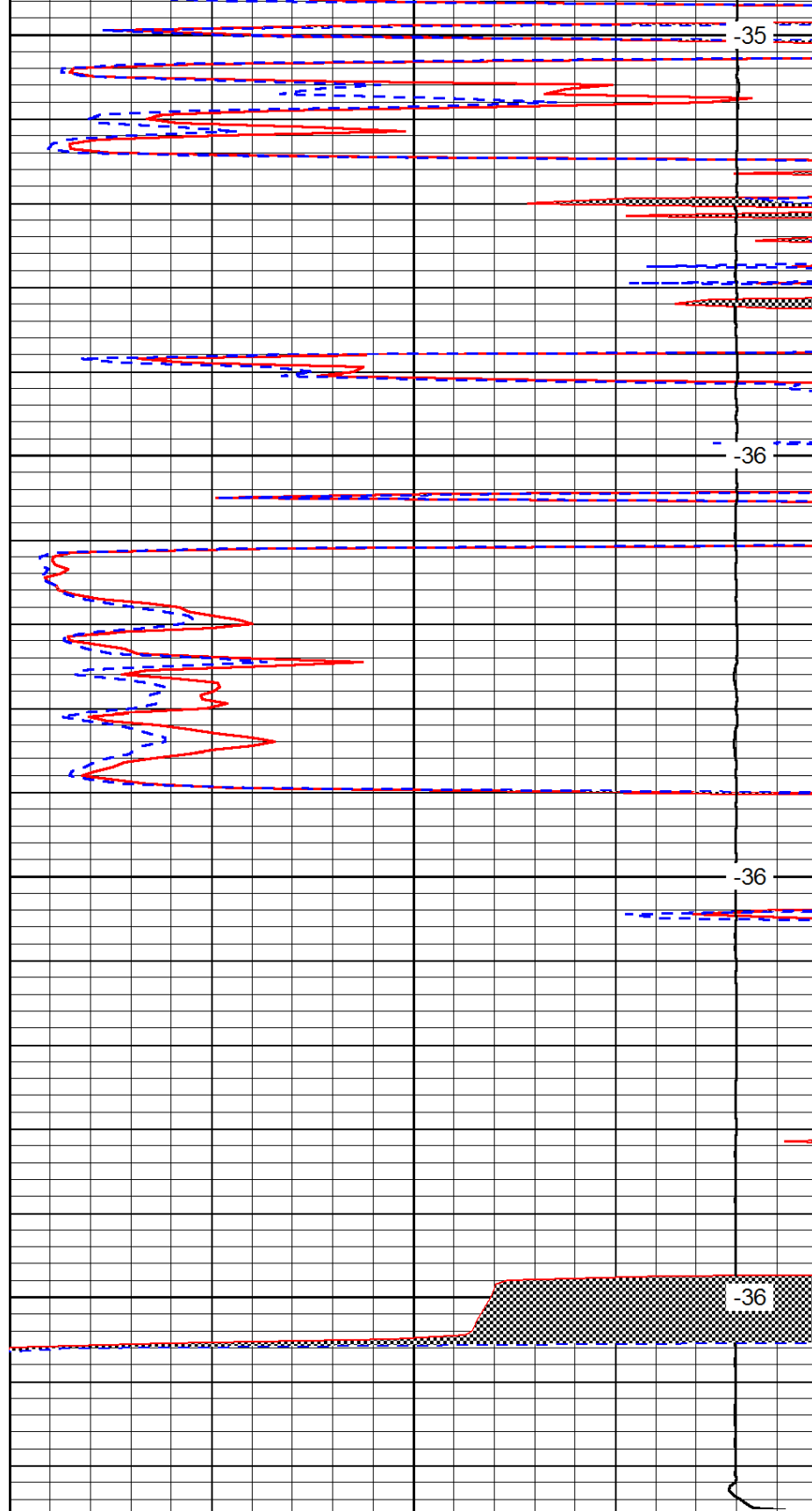
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