



Microresistivity Log

Pioneer Energy Services

API No.

15-109-21,377-00-00

Company **Black Tea Oil, LLC**

Well **DFK 5 #1**

Field **Elkader Townsite Southeast**

County **Logan** State **Kansas**

Location

**SE SE SW SW
300' FSL & 1260' FWL**

Other Services
CNL/CDL
DIL/BHCS

Sec: **35**

Twp: **14S**

Rge: **32W**

Elevation

Permanent Datum **Ground Level** Elevation **2632**
Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

K.B. 2641
D.F. 2632
G.L. 2632

Date **12/14/2014**

Run Number **Two**

Depth Driller **4410**

Depth Logger **4407**

Bottom Logged Interval **4406**

Top Log Interval **3000**

Casing Driller **8.625 @ 264**

Casing Logger **260**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **5000**

Density / Viscosity **9.2 42**

pH / Fluid Loss **9.5 8.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.70 @ 67**

Rmf @ Meas. Temp **0.53 @ 67**

Rmc @ Meas. Temp **0.95 @ 67**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.39 @ 120**

Operating Rig Time **5 Hours**

Max Rec. Temp. F **120**

Equipment Number **15**

Location **Hays**

Recorded By **D.Kerr**

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

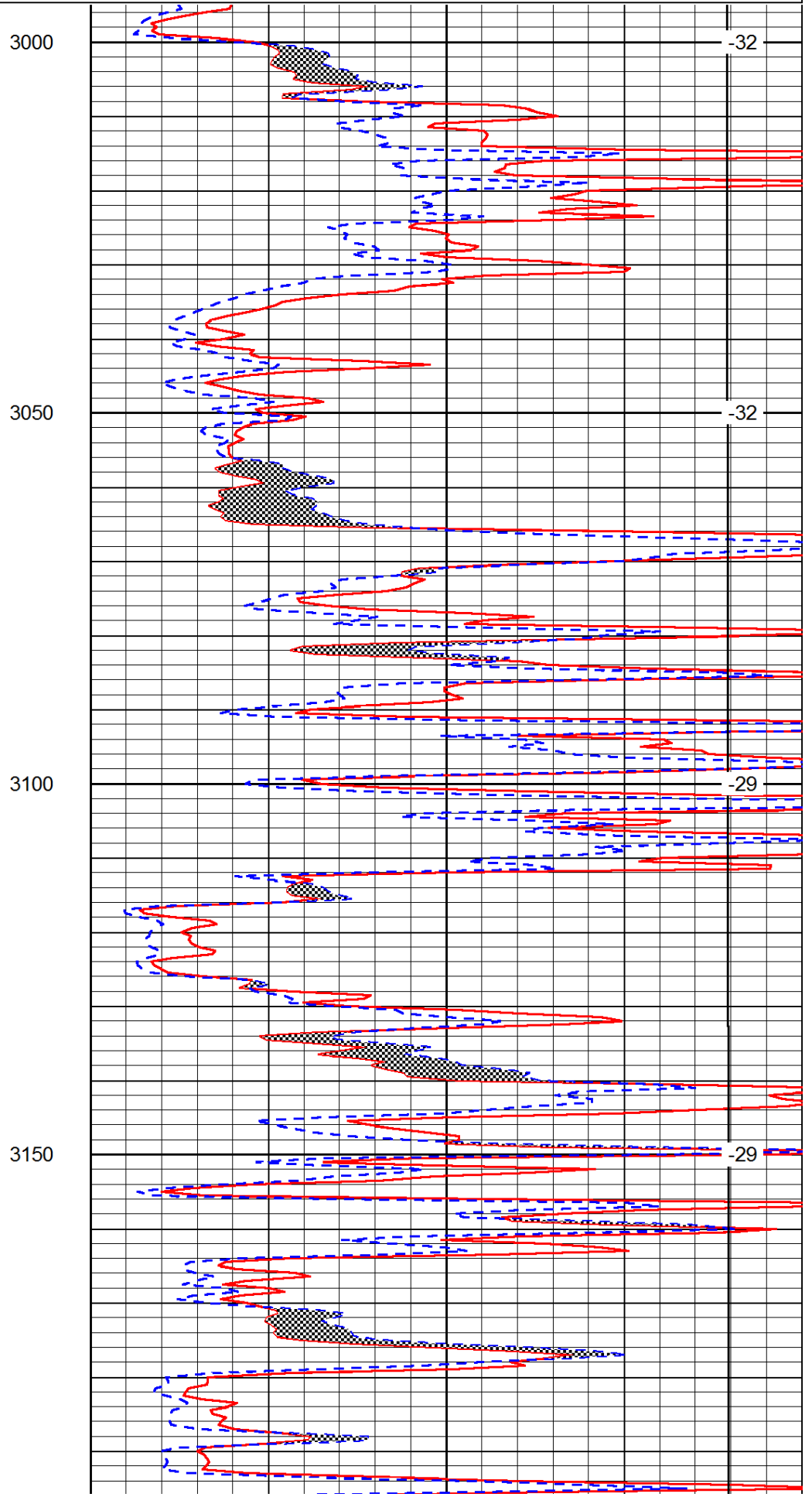
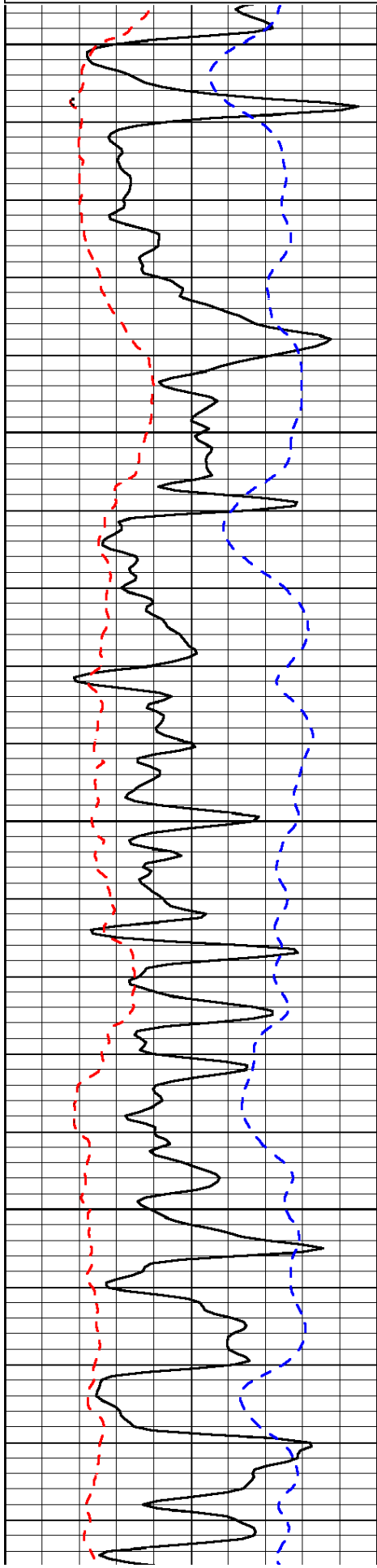
Oakley KS, 23 South to Gold RD, 1/4 East,
North through fence, East and North Into

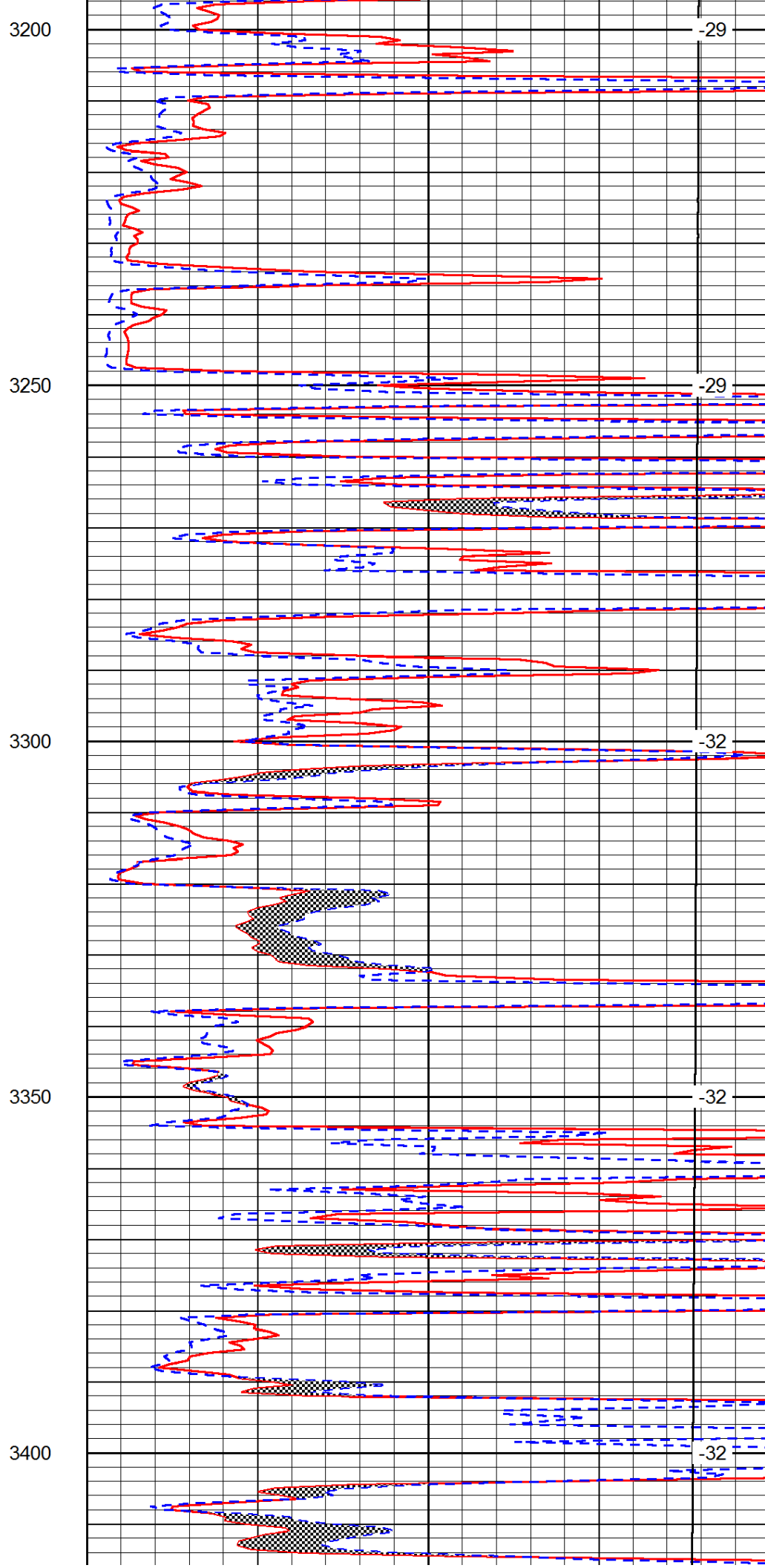
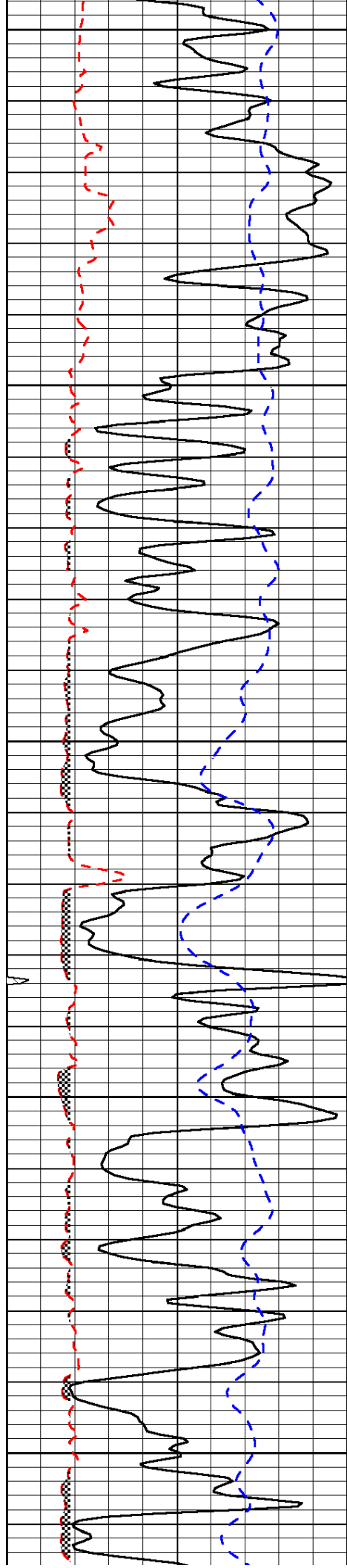
Database File: c:\warrior\data\black tea_dfk 5 #1\blacktea_dfk_5_1hd.db
Dataset Pathname: DIL/btstk
Presentation Format: micro
Dataset Creation: Sun Dec 14 11:52:37 2014
Charted by: Depth in Feet scaled 1:240

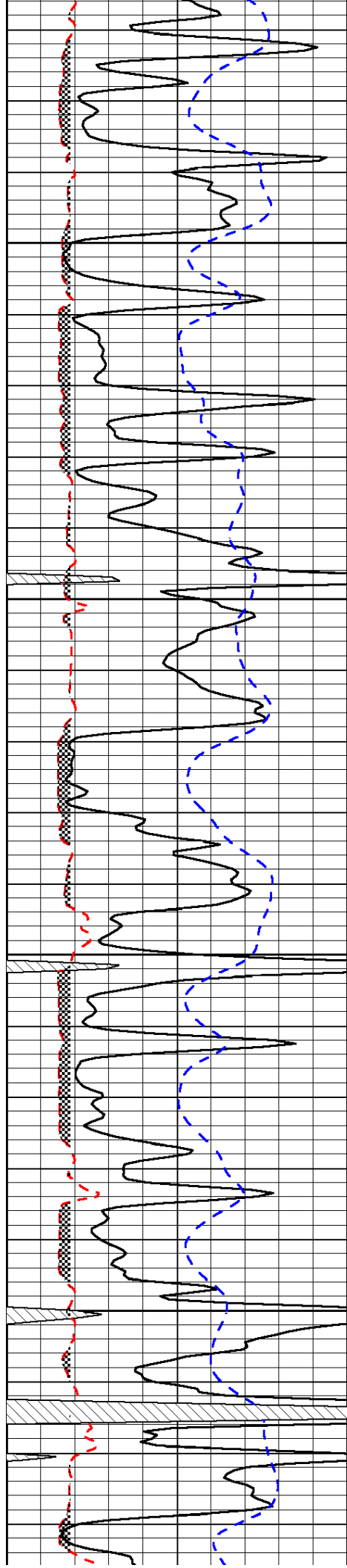
0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0

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

LSPD





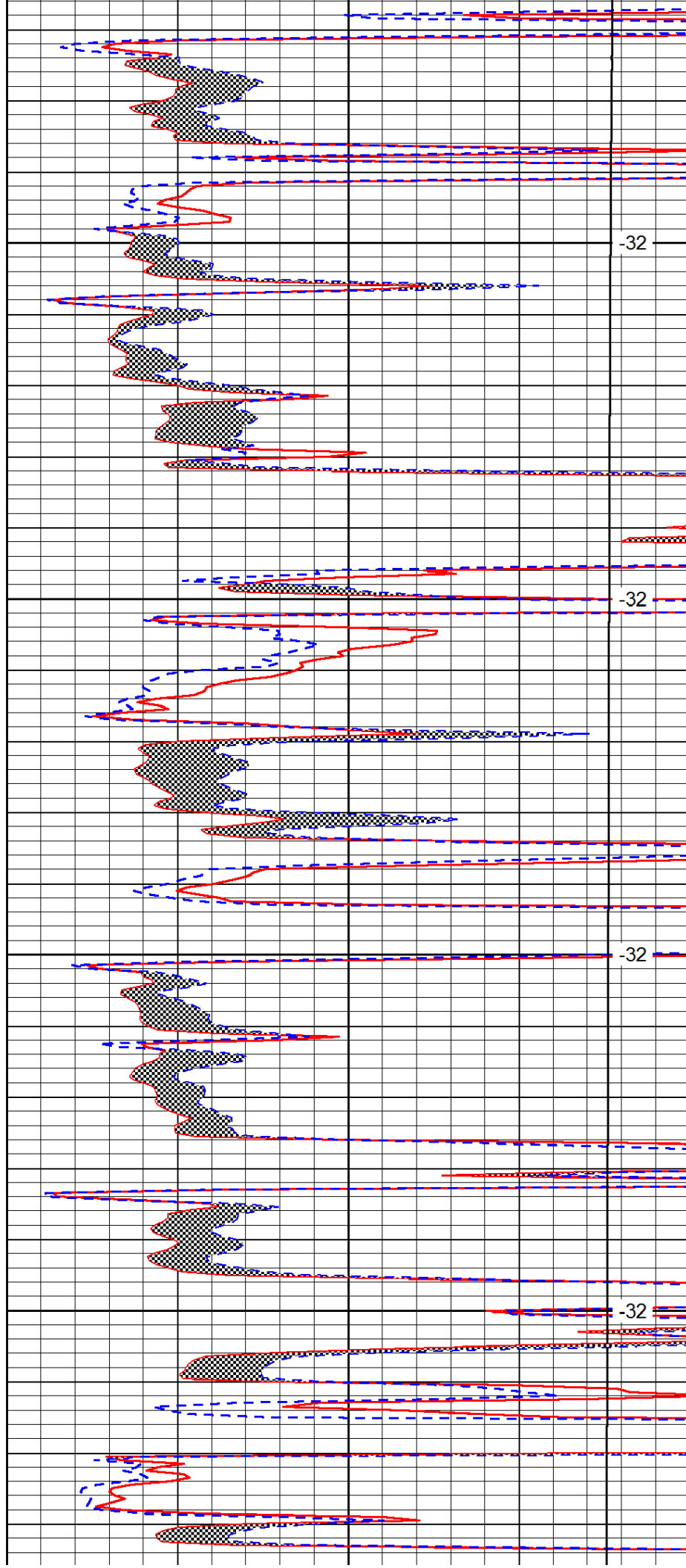


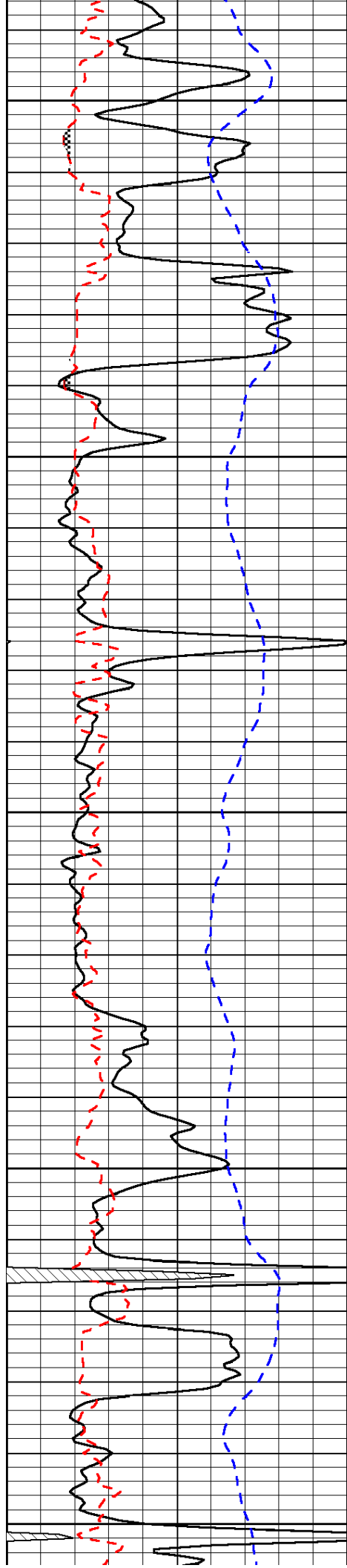
3450

3500

3550

3600





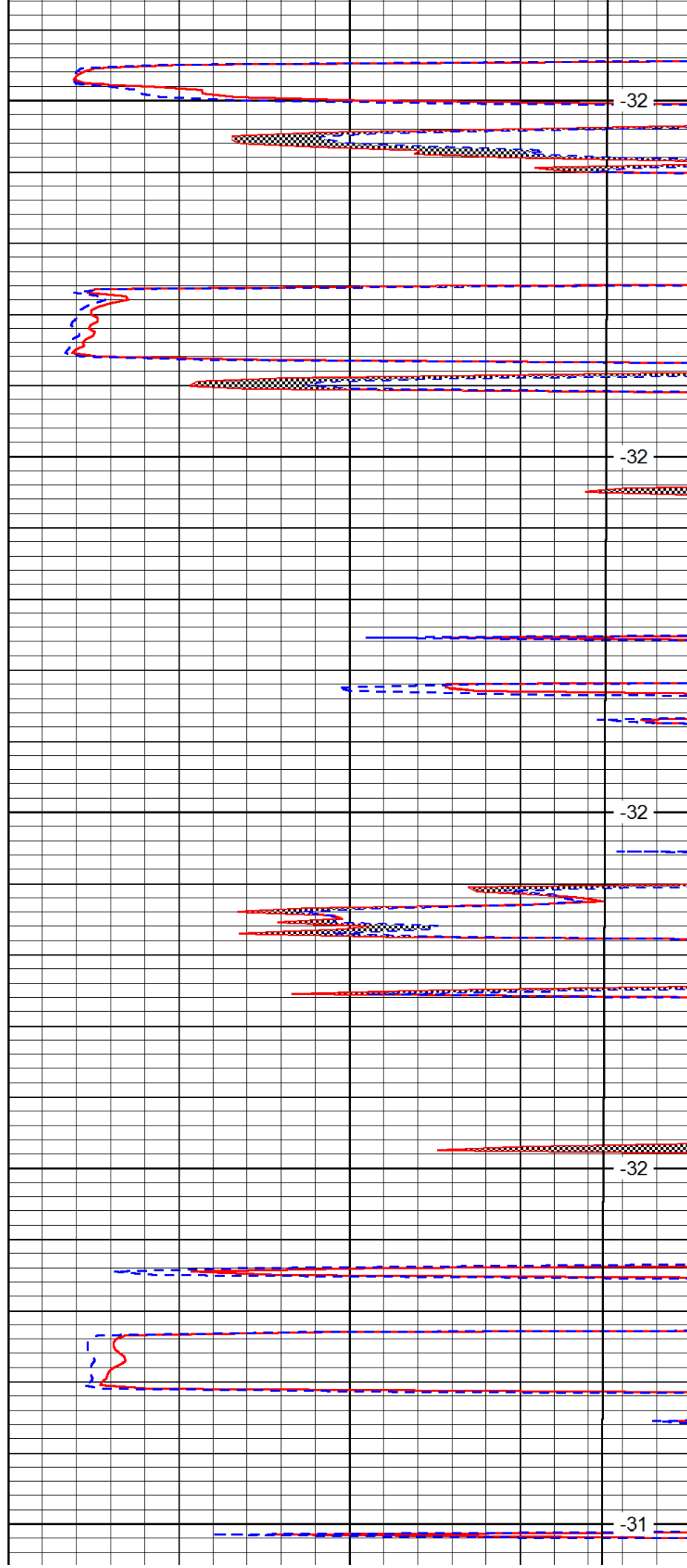
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3700

3750

3800

3850



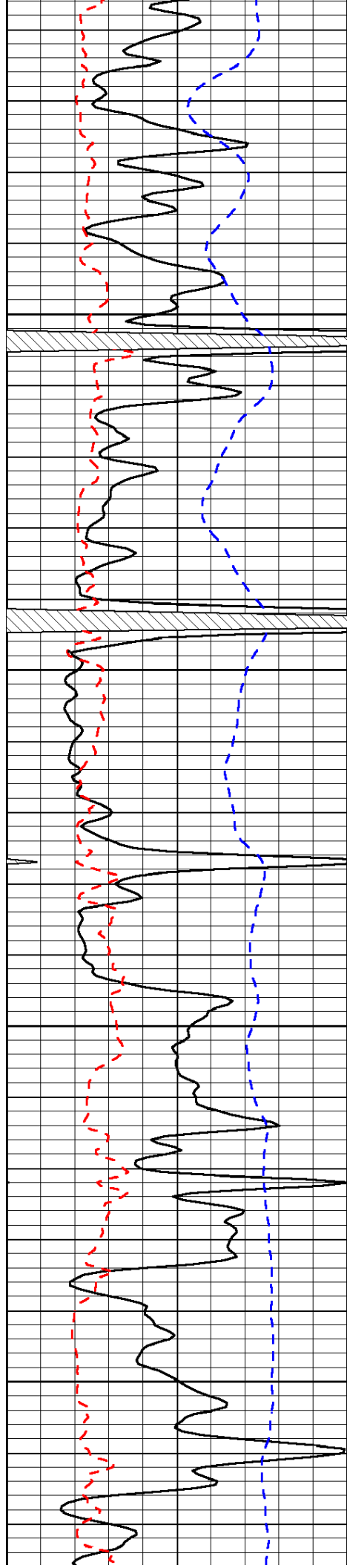
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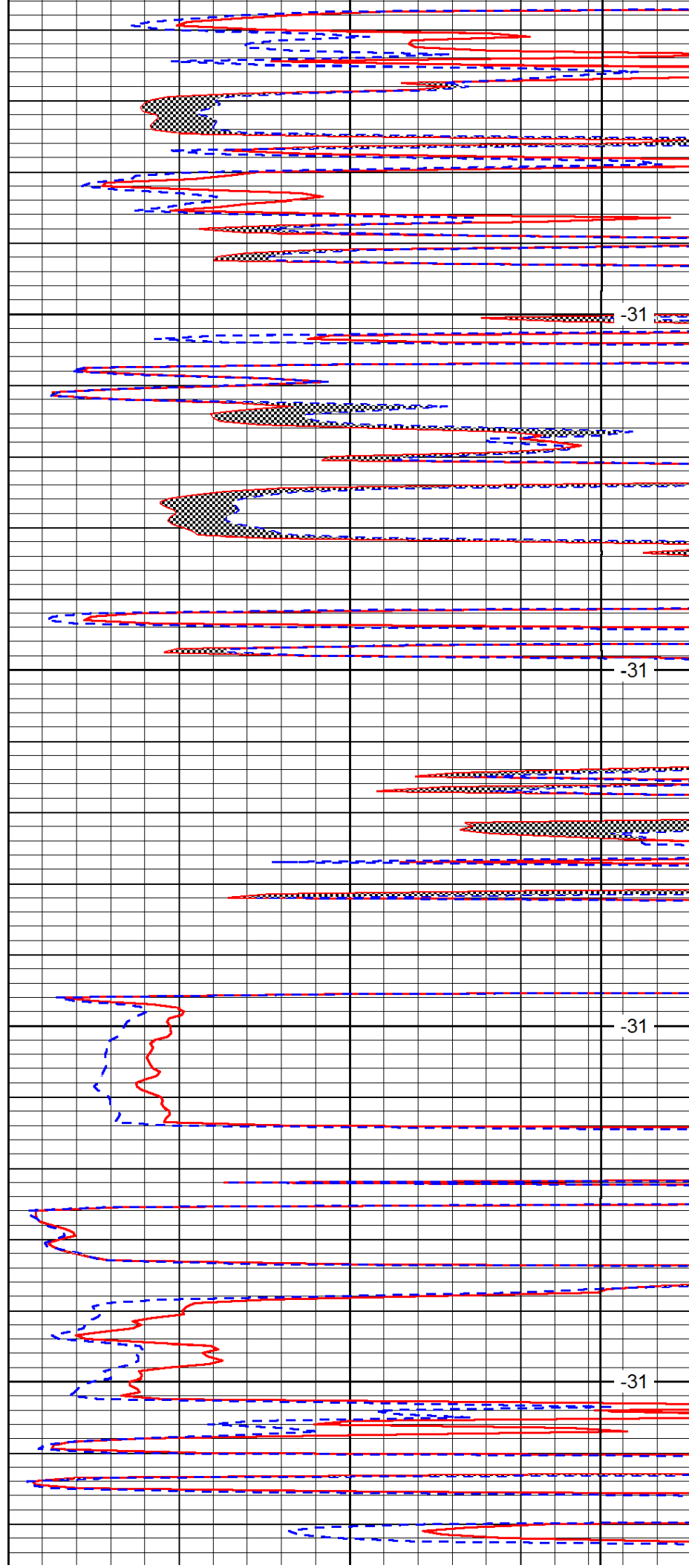


3900

3950

4000

4050

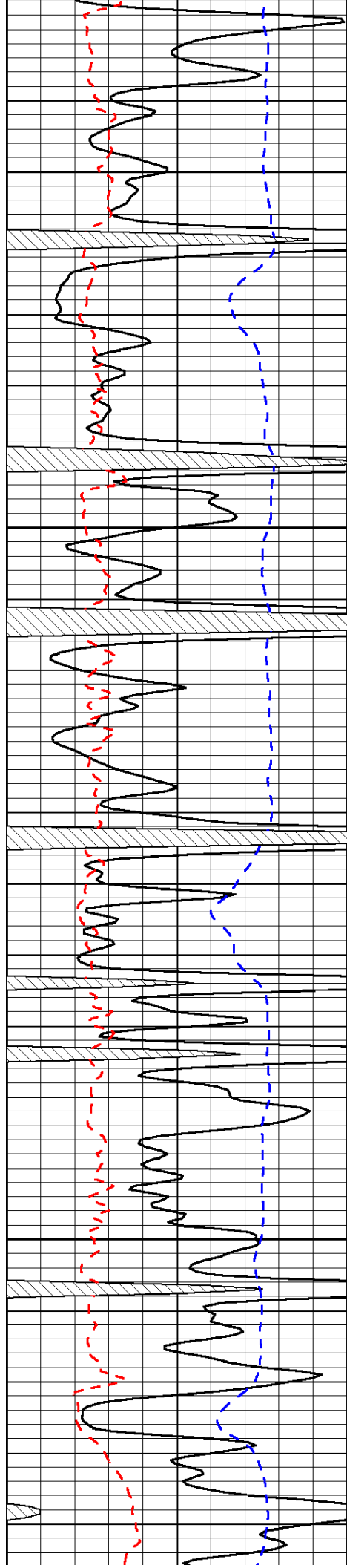


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4100

4150

4200

4250

