



Microresistivity Log

Pioneer Energy Services

API No.

15-187-21,281-00-00

Company Landmark Resources, Inc.
Well Garman # 1-11 R
Field Beauchamp Northeast
County Stanton State Kansas

Location NW-NE-NE-SE
2373' FSL & 456' FEL
Sec: 11 Twp: 30S Rge: 41W
Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 3362
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 3373
D.F.
G.L. 3362

Date

6/26/2014

Run Number

Two

Depth Driller

5570

Depth Logger

5536

Bottom Logged Interval

5535

Top Log Interval

3600

Casing Driller

8.625 @ 1780

Casing Logger

1781

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

800

Density / Viscosity

9.3 51

pH / Fluid Loss

10.0 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

.53 @ 82

Rmf @ Meas. Temp

.40 @ 82

Rmc @ Meas. Temp

.72 @ 82

Source of Rmf / Rmc

Charts

Rm @ BHT

.33 @ 132

Operating Rig Time

5 Hours

Max Rec. Temp. F

132

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Larry Nicholson

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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.

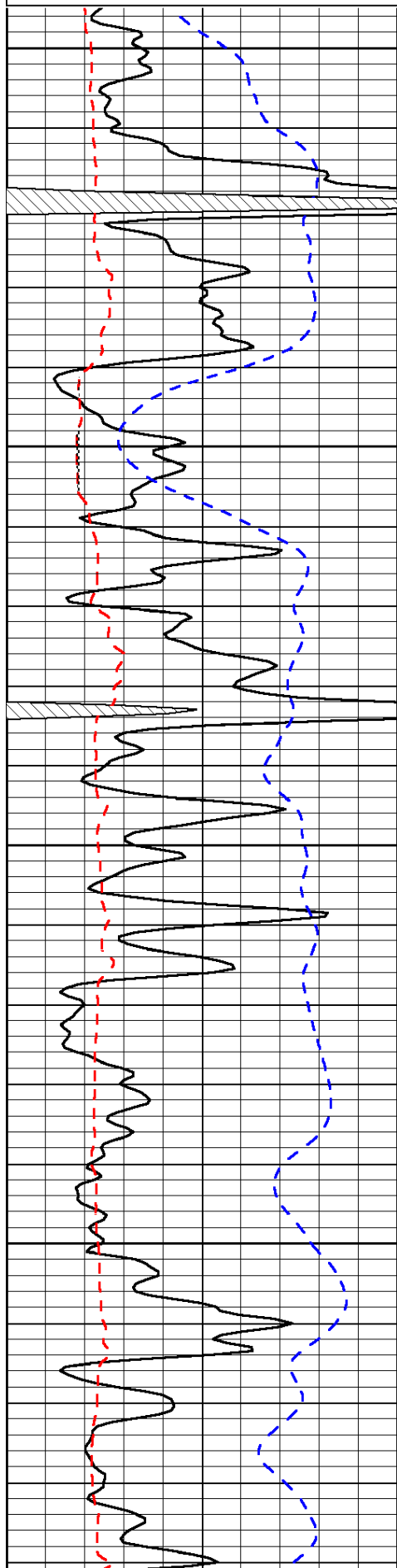
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Johnson City Kansas
8 South, West Into

Database File: c:\warrior\data\landmark_garman # 1-11 r\landhd.db
Dataset Pathname: DIL\landstk
Presentation Format: micro
Dataset Creation: Fri Jun 27 09:20:47 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

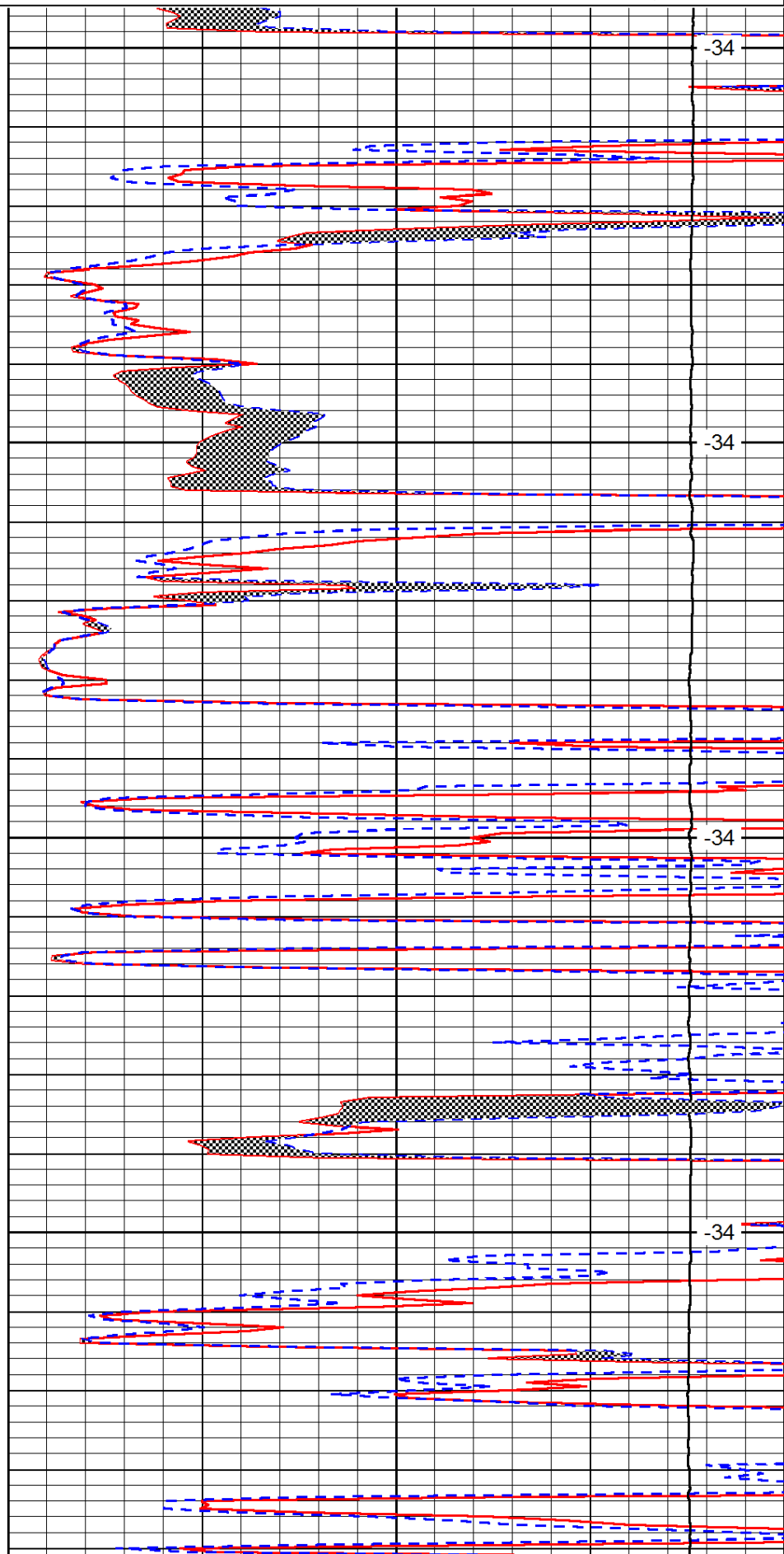


3600

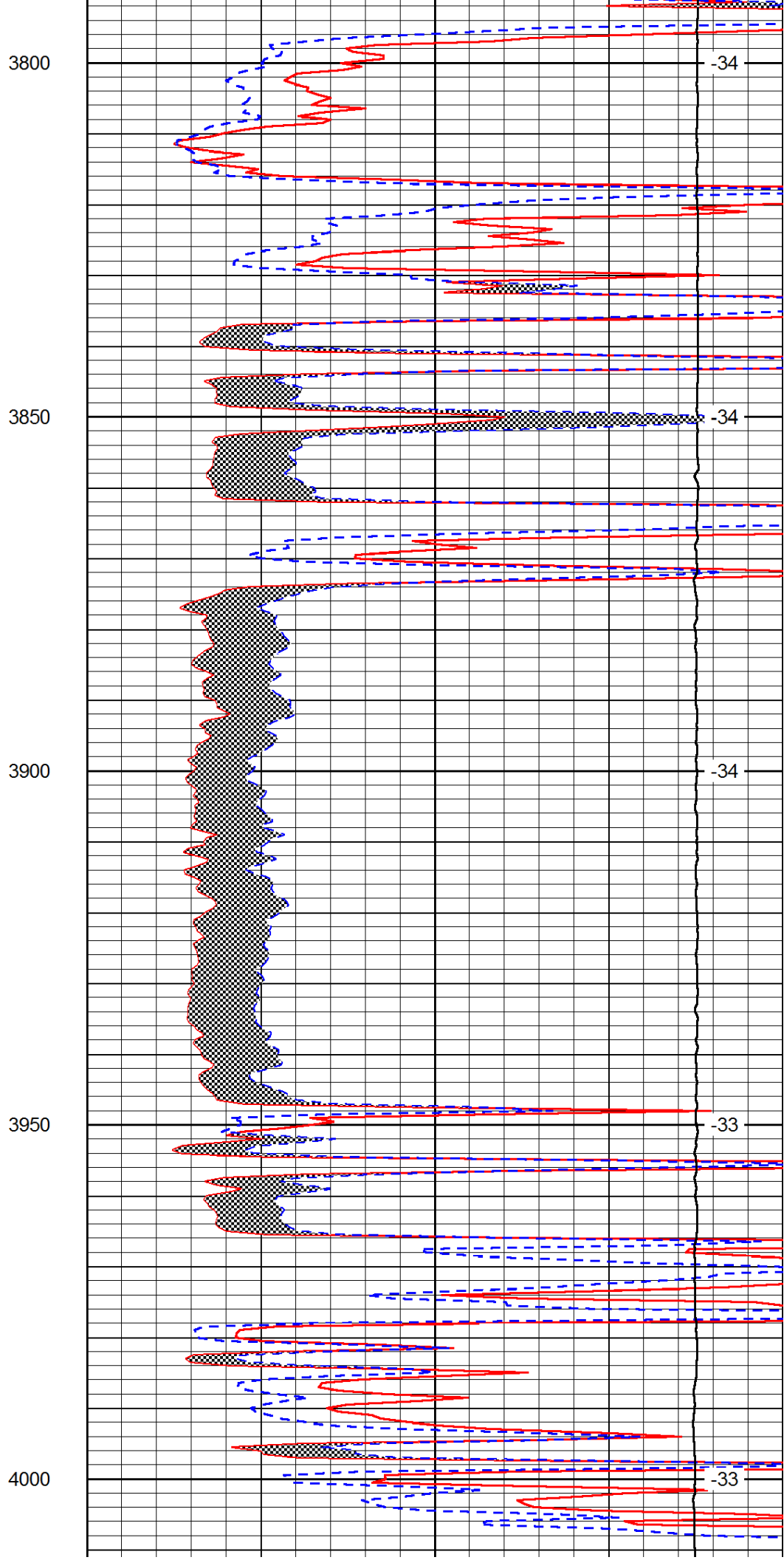
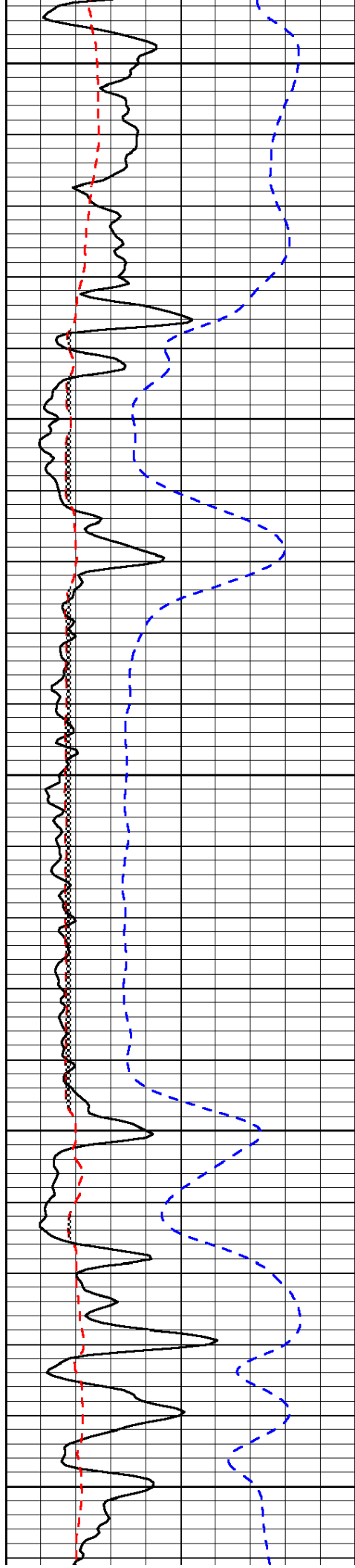
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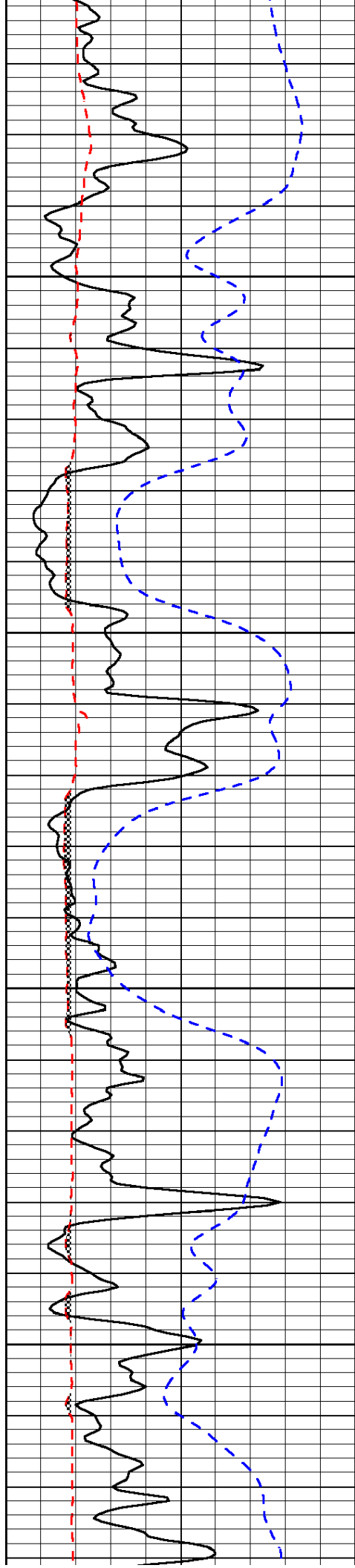
3700

3750



LSPD



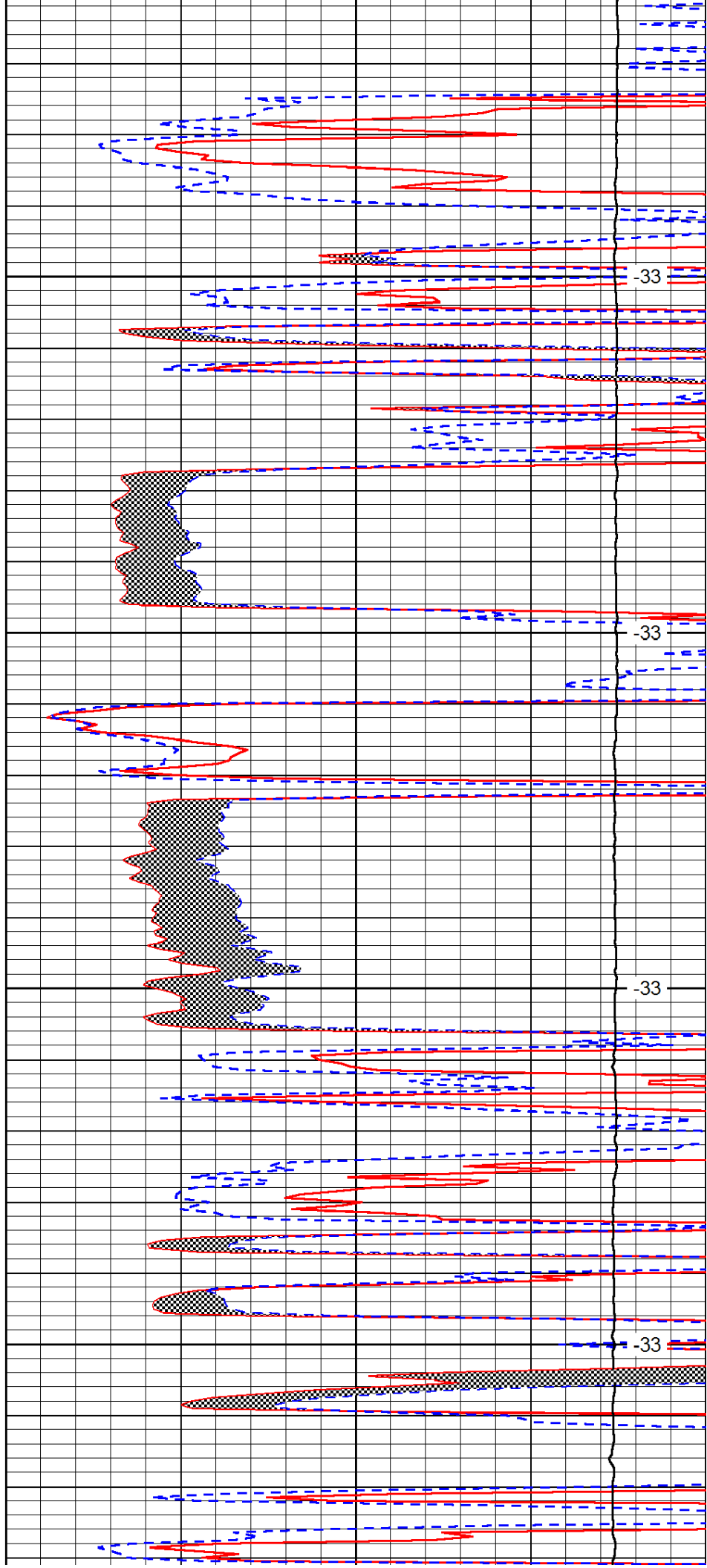


4050

4100

4150

4200

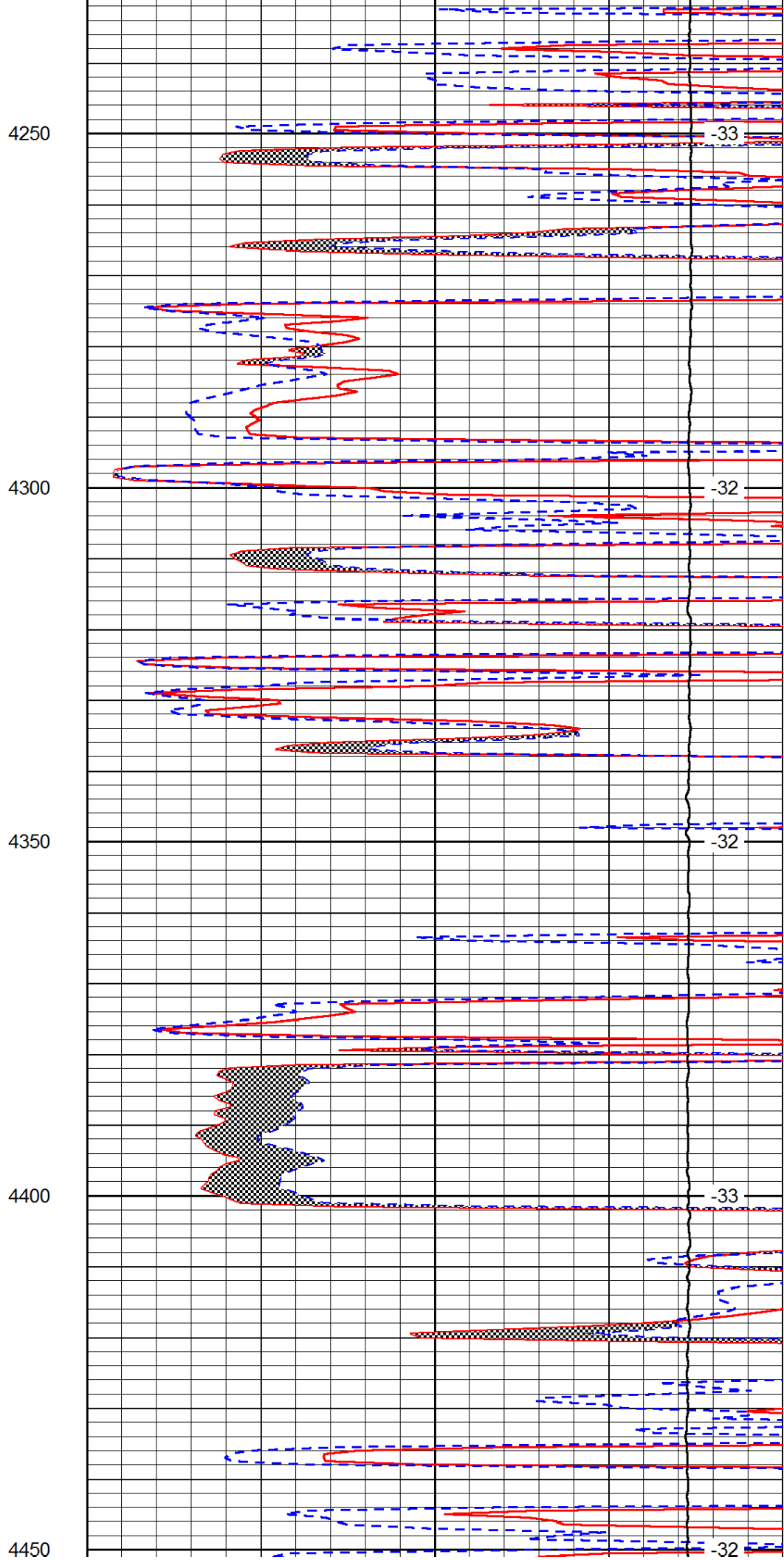
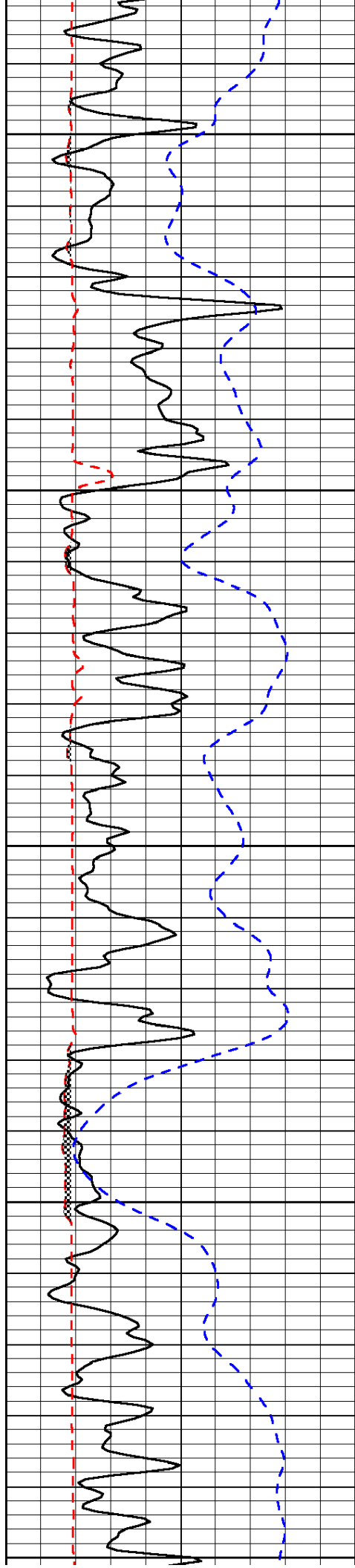


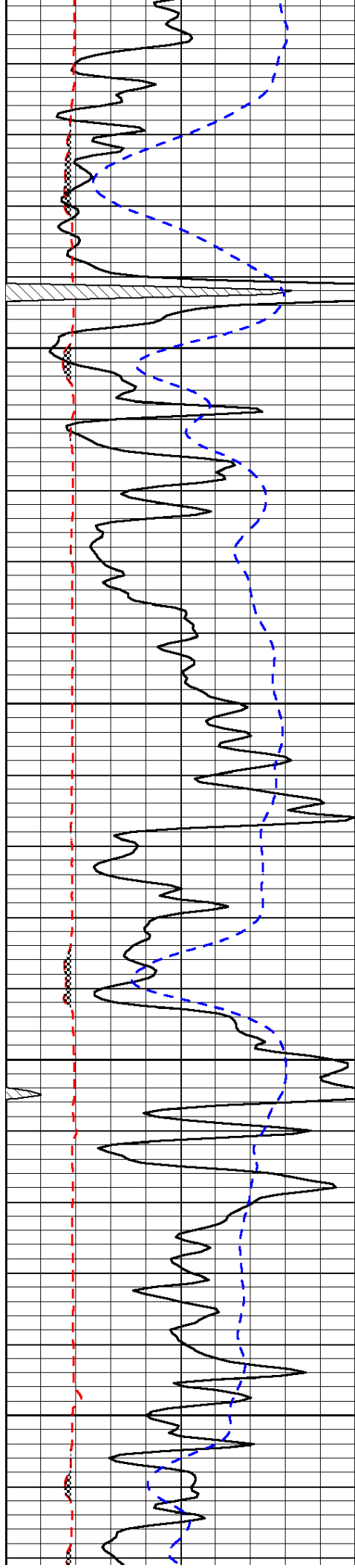
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-33

-33

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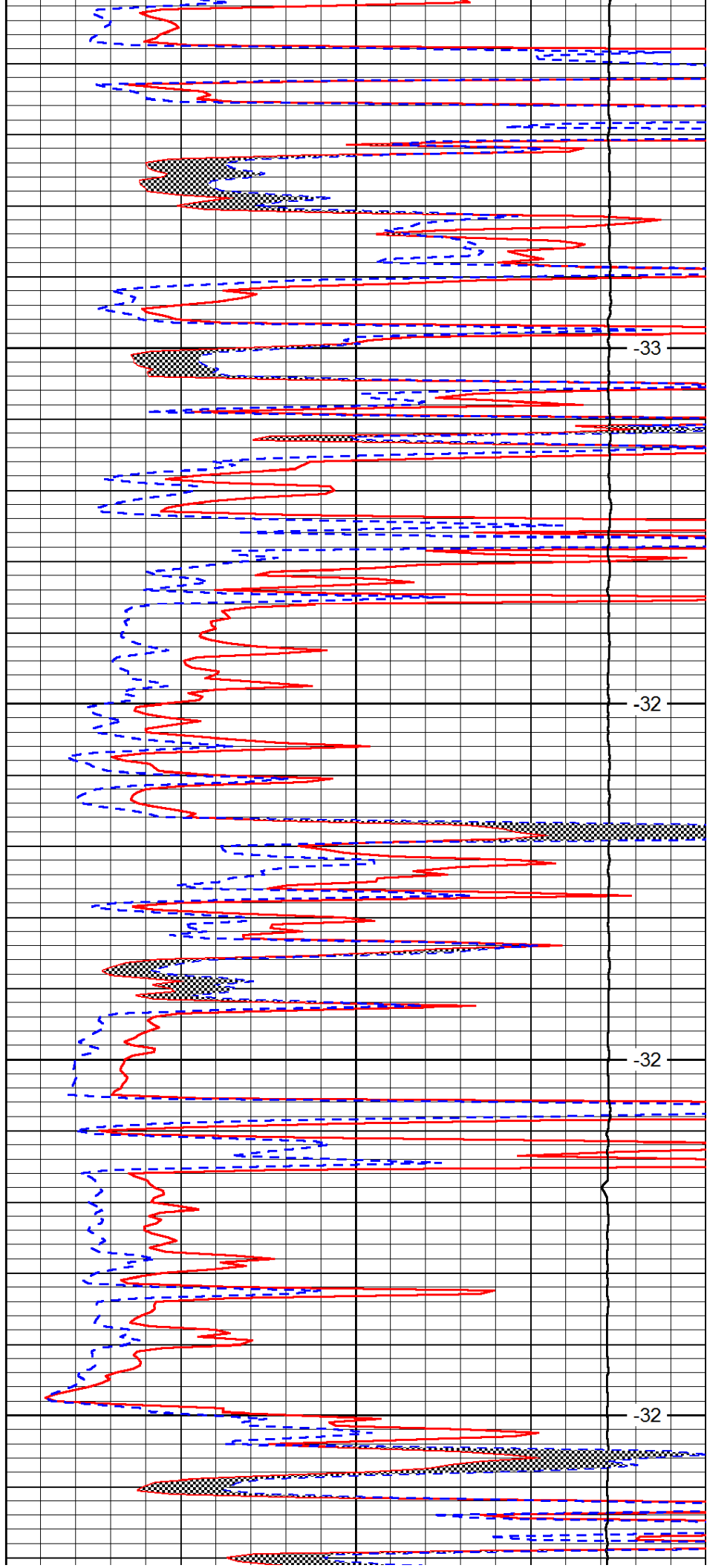


4500

4550

4600

4650

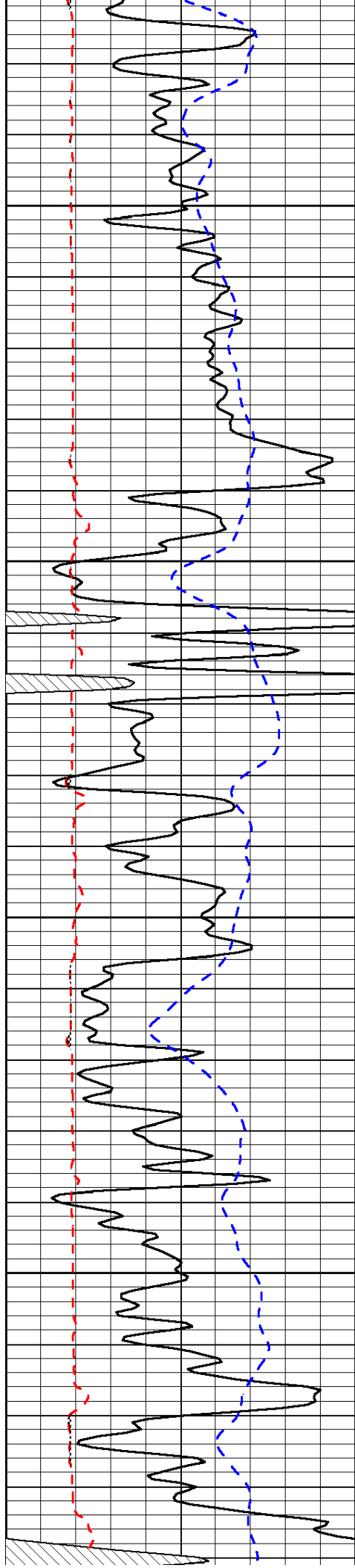


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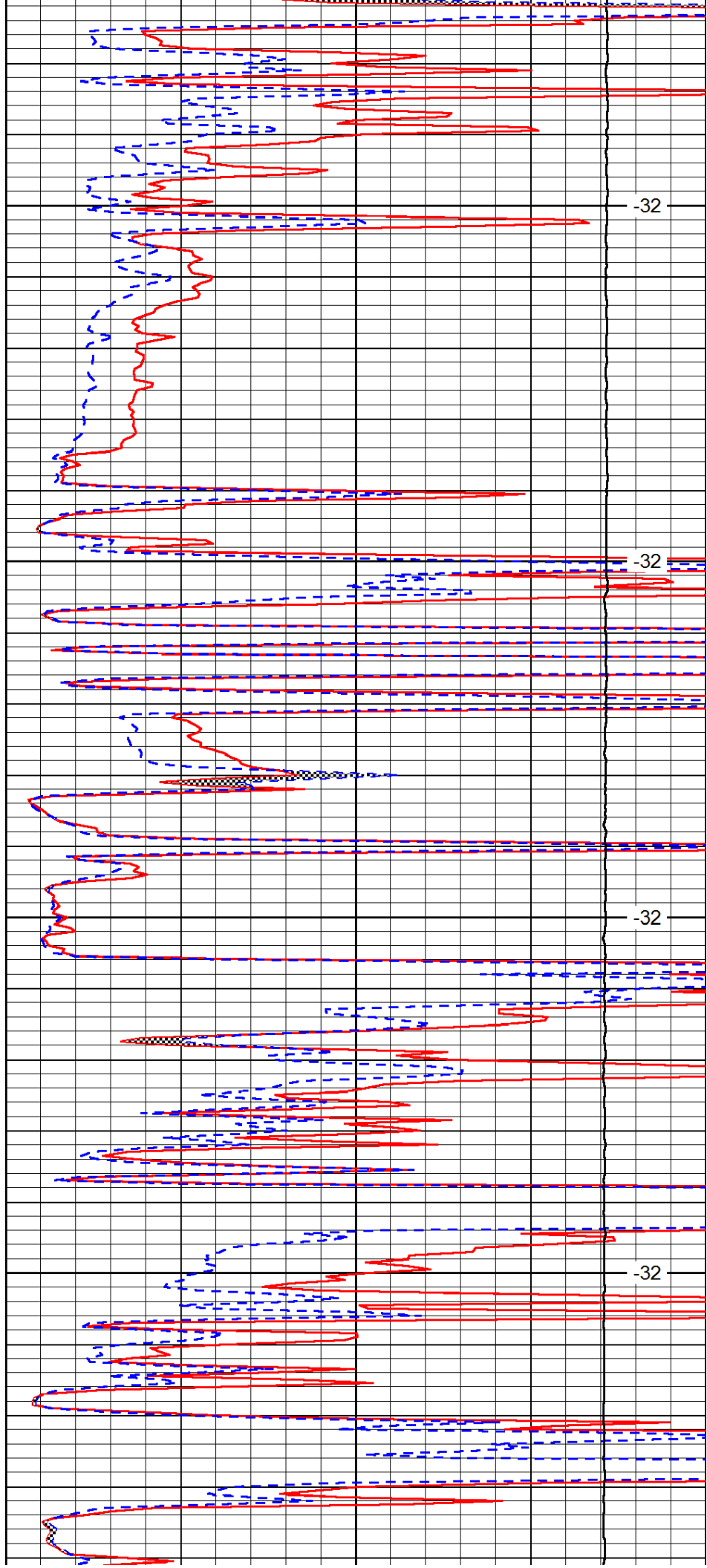


4700

4750

4800

4850

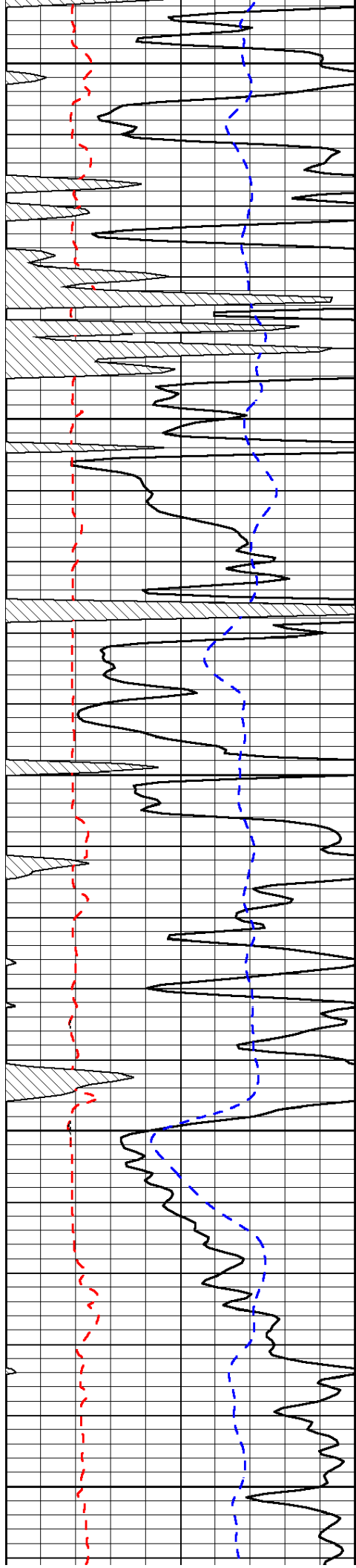


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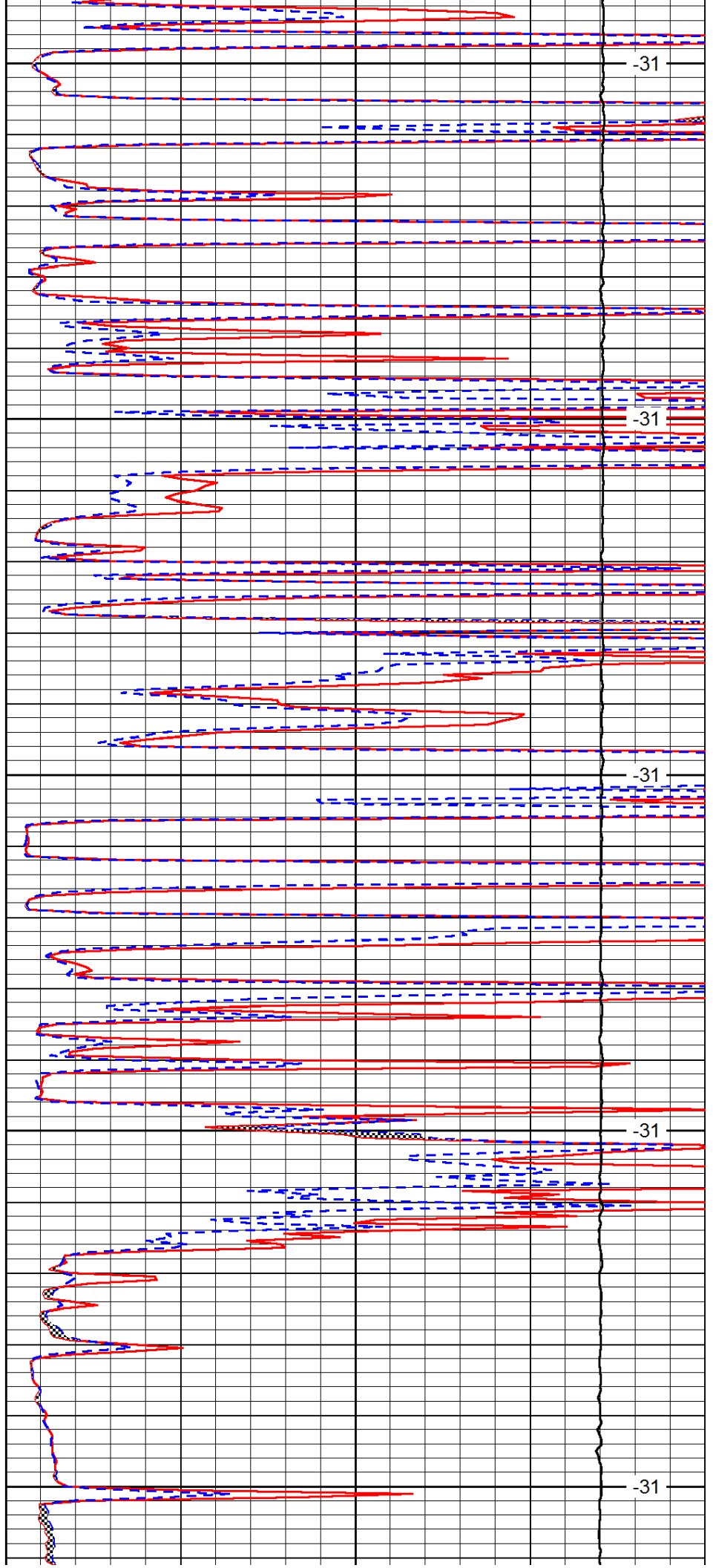
4900

4950

5000

5050

5100



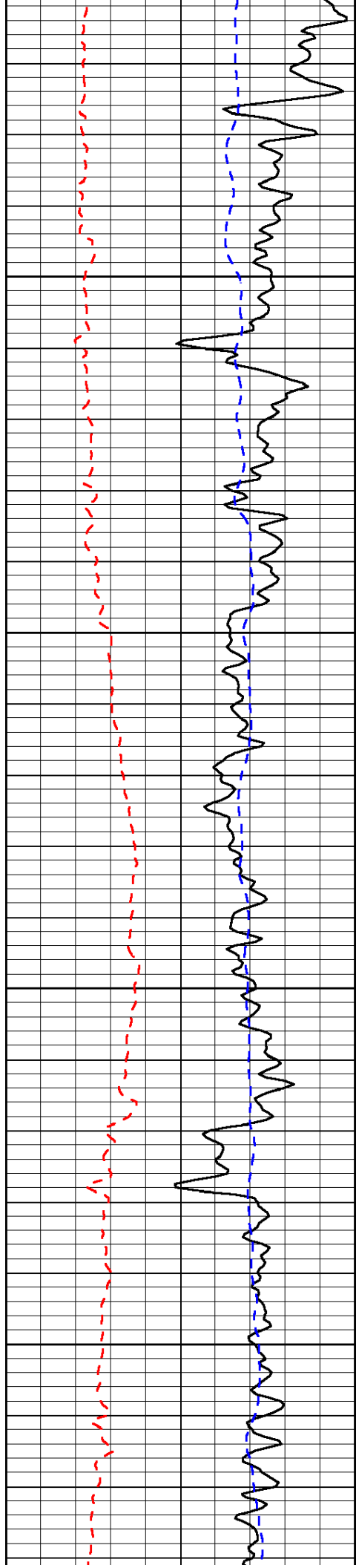
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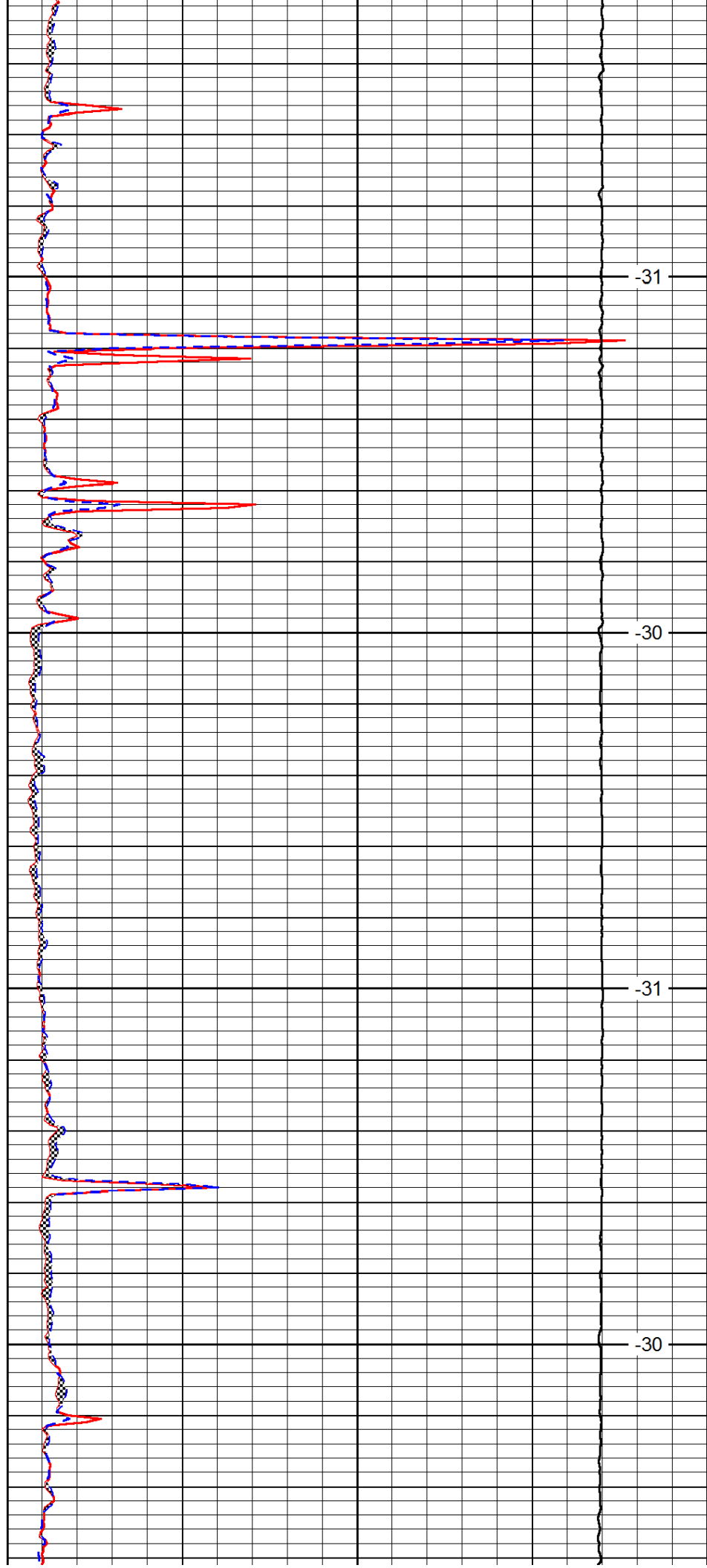


5150

5200

5250

5300

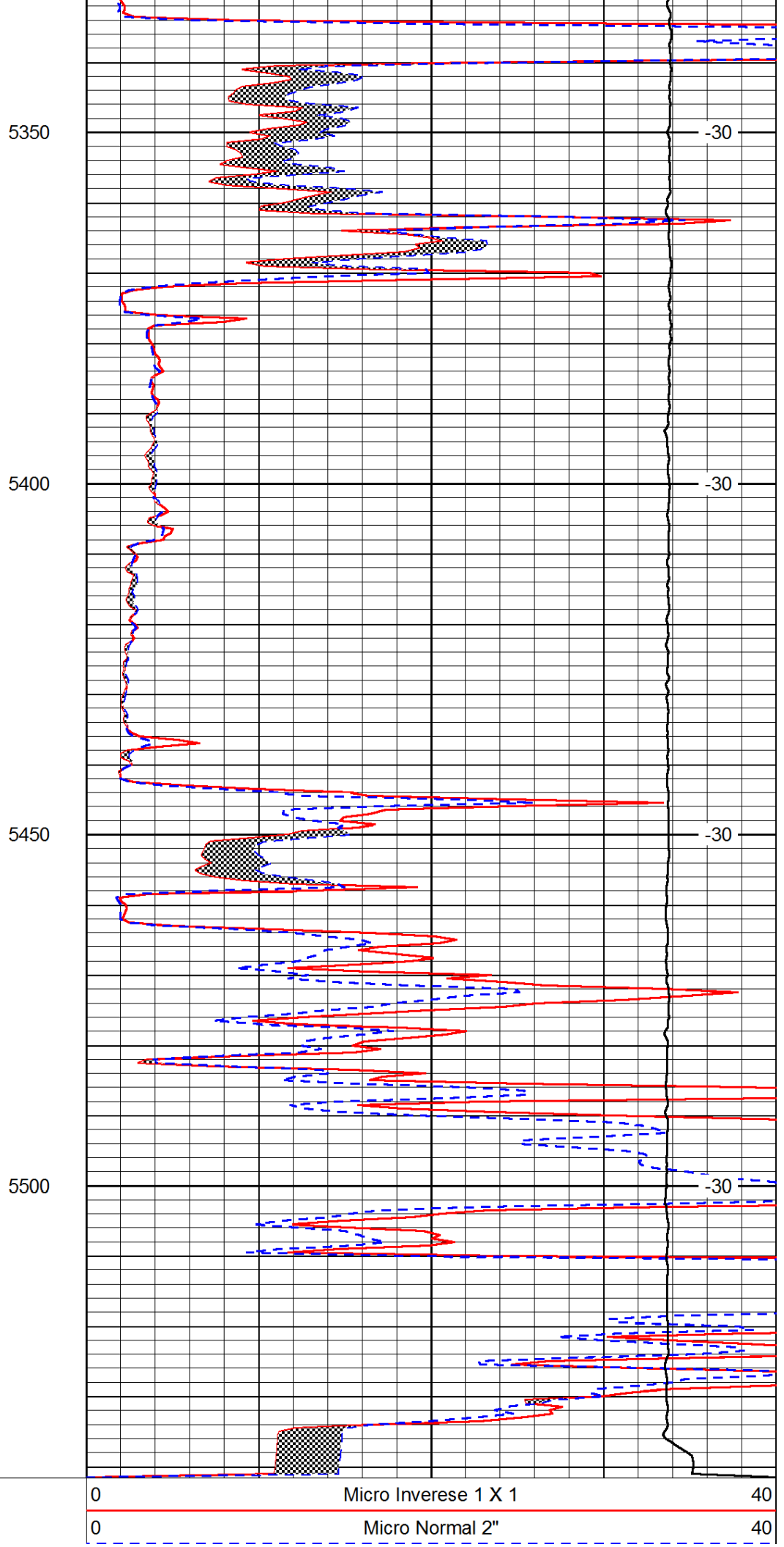
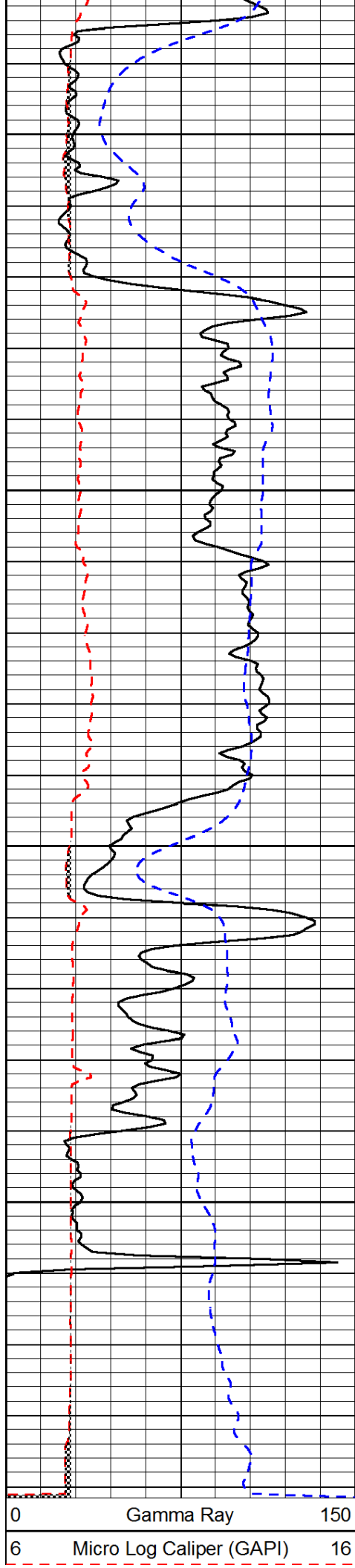


-31

-30

-31

-30



-200 SP (mV) 0

15000 Line Weight 0

LSPD