



Microresistivity Log

Pioneer Energy Services

API No.

15-097-21,784-00-00

Company **Toto Energy, LLC**

Well **Parkin Lot #1**

Field **Nichols**

County **Kiowa** State

Kansas

Location **2,310' FSL & 2,310' FWL**

Sec: 5 Twp: 30S Rge: 18W

Other Services
CNL/CDL
DIL

Elevation

K.B. 2229
D.F. 2219
G.L. 2219

Permanent Datum
Log Measured From
Drilling Measured From

Ground Level
Kelly Bushing
From Kelly Bushing

Elevation 2219
10 Ft. Above Perm. Datum

Date **3/3/2014**

Run Number **Two**

Depth Driller **5350**

Depth Logger **5355**

Bottom Logged Interval **5354**

Top Log Interval **3900**

Casing Driller **8.625 @ 262**

Casing Logger **264**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **8500**

Density / Viscosity **9.6 66**

pH / Fluid Loss **8.5 10.4**

Source of Sample **Flowline**

Rm @ Meas. Temp **.50 @ 60**

Rmf @ Meas. Temp **.38 @ 60**

Rmc @ Meas. Temp **.68 @ 60**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.23 @ 130**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **130**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

Witnessed By **Sean Deenihan**

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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.

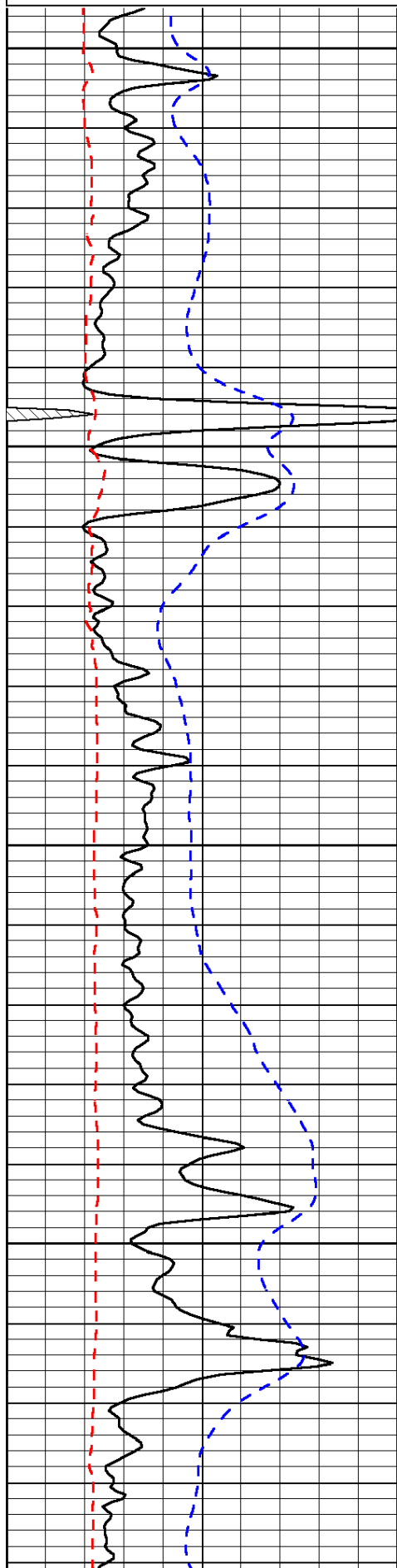
Comments

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

Greensburg (Intersection of Highway 54 and Highway 183), 10 South, 1/2 East at Tank Batteries,
South Into

Database File: c:\warrior\data\toto_parkin lot #1\toto_parkinlot_1hd.db
Dataset Pathname: dil/totostck
Presentation Format: micro
Dataset Creation: Mon Mar 03 14:58:53 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



3900

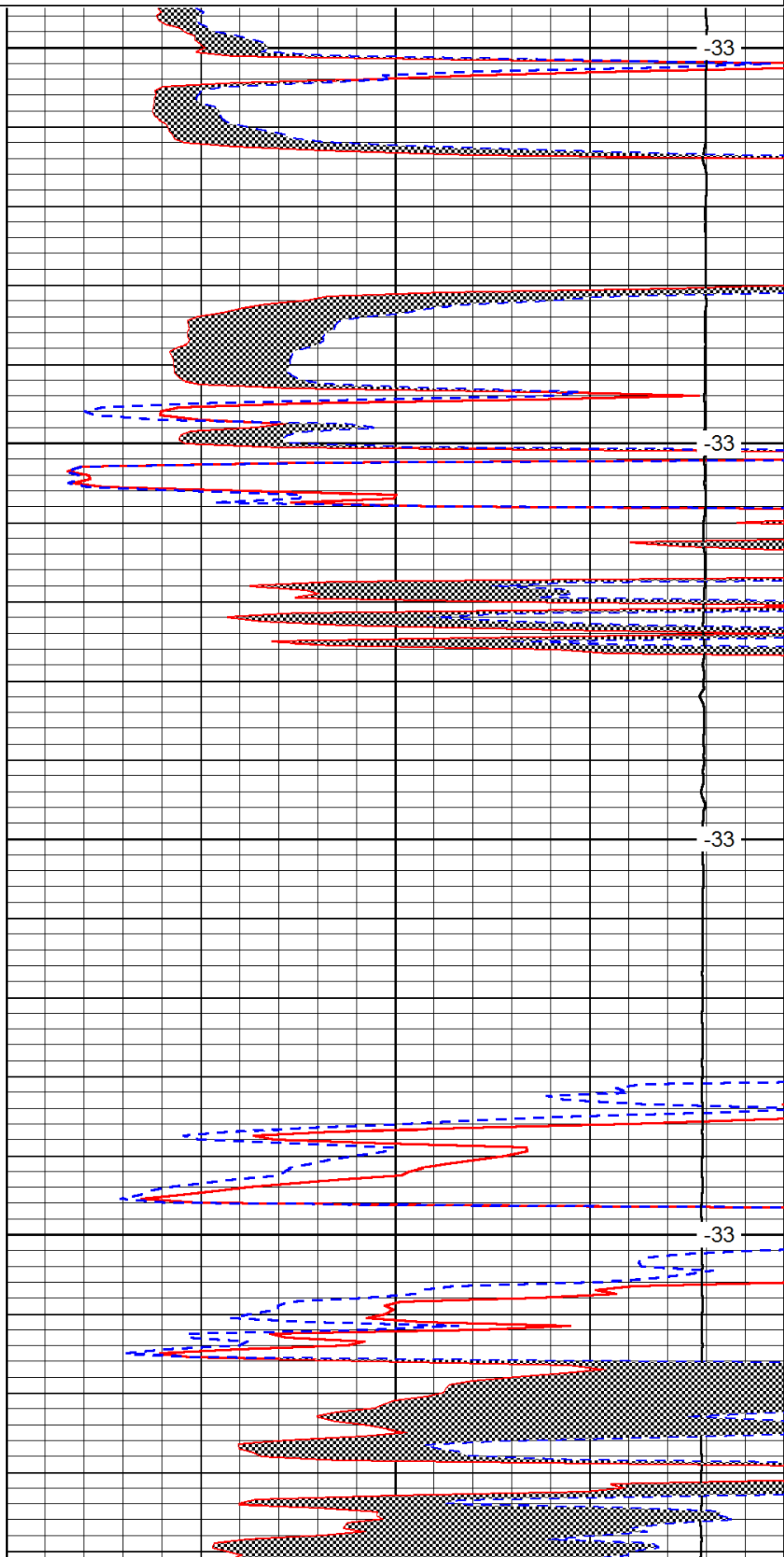
3950

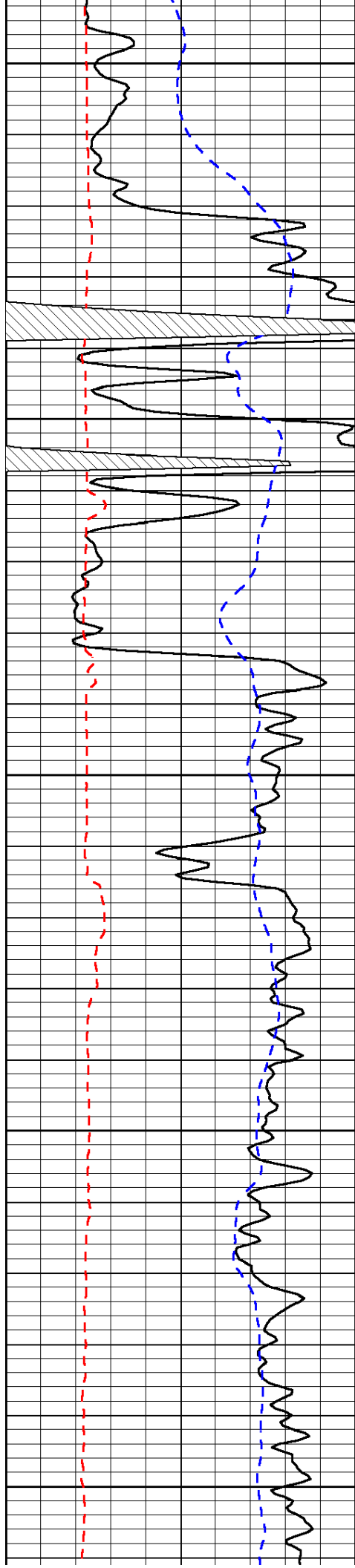
4000

4050

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

LSPD





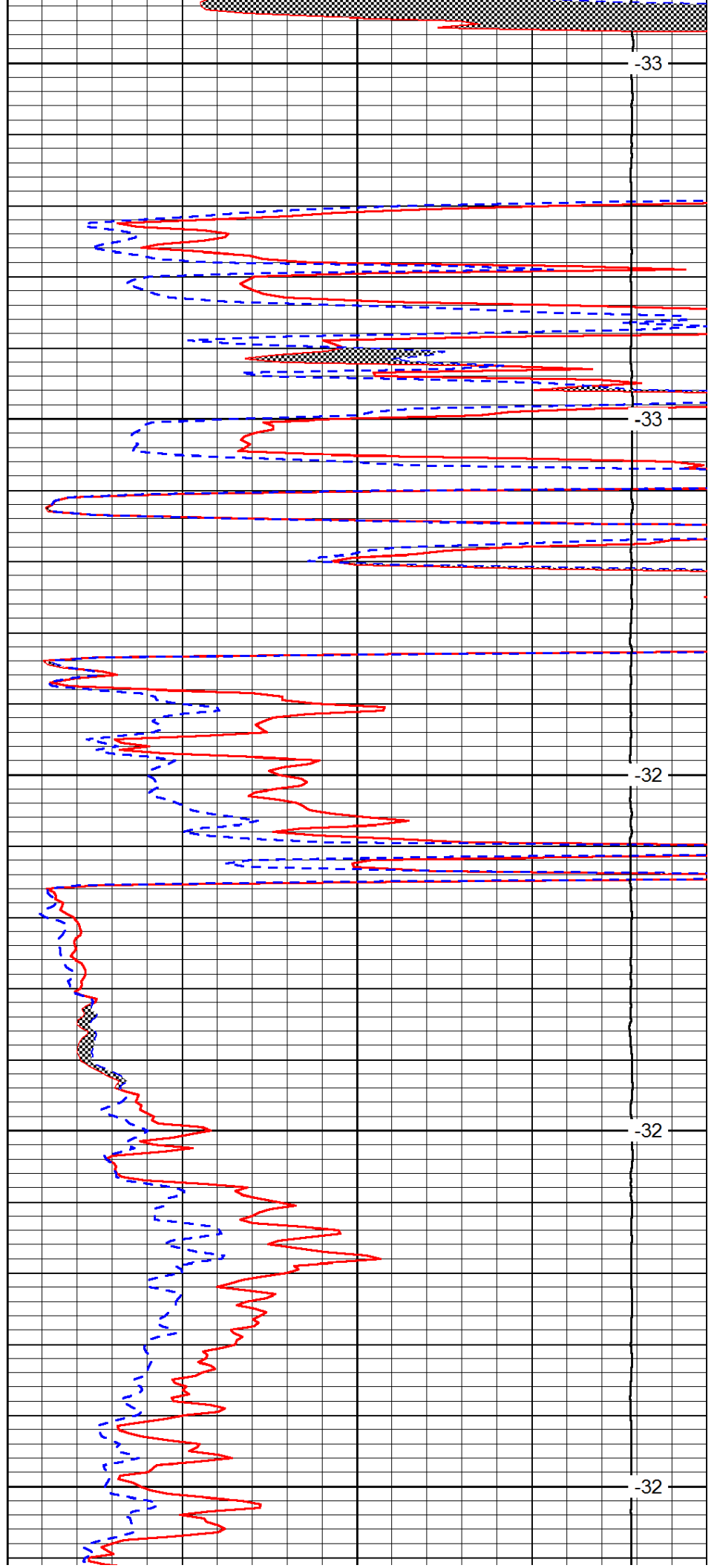
4100

4150

4200

4250

4300



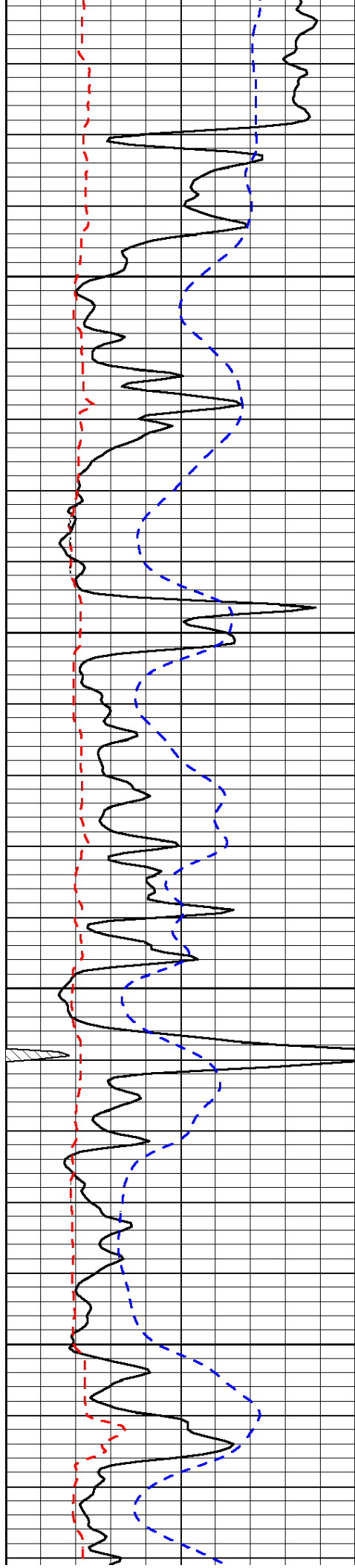
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-33

-32

-32

-32

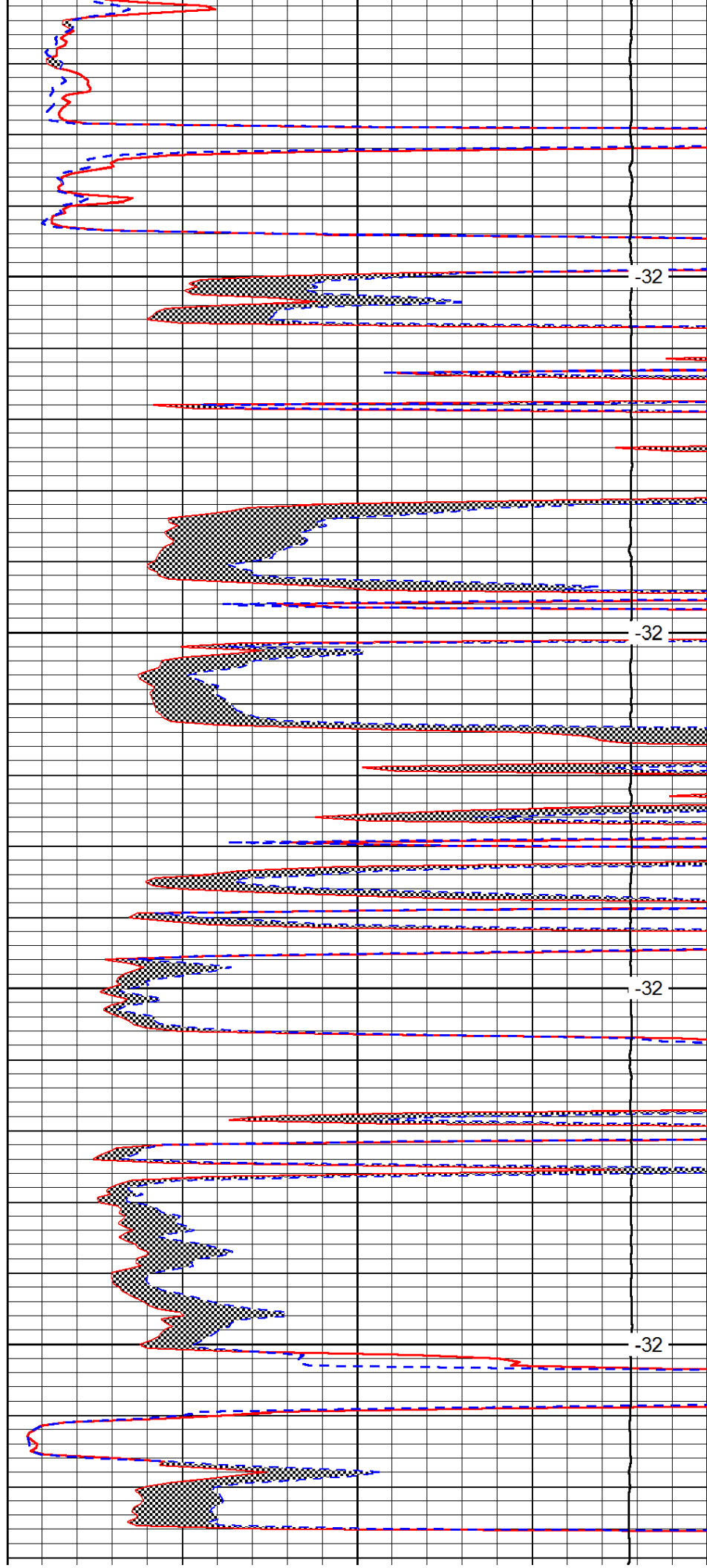


4350

4400

4450

4500

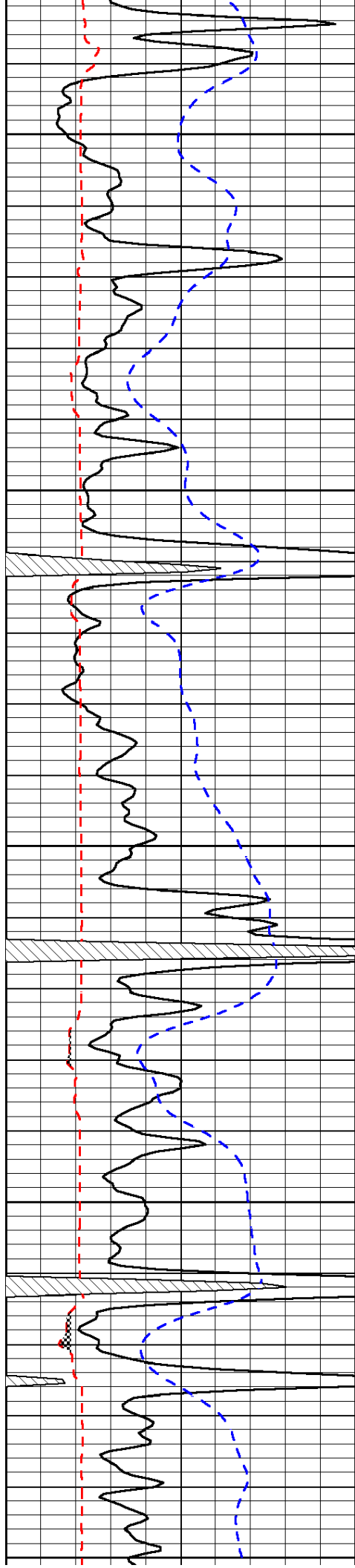


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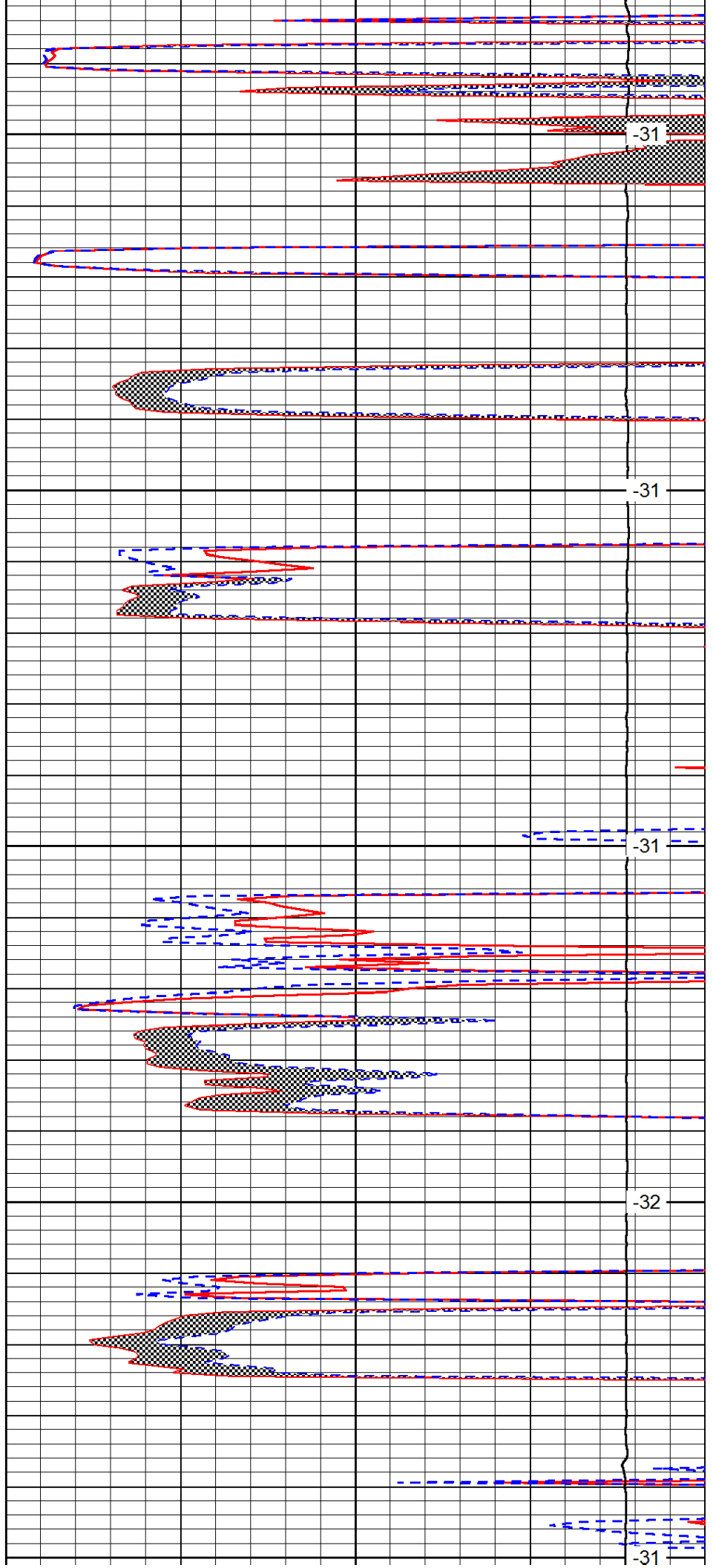
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4600

4650

4700

4750



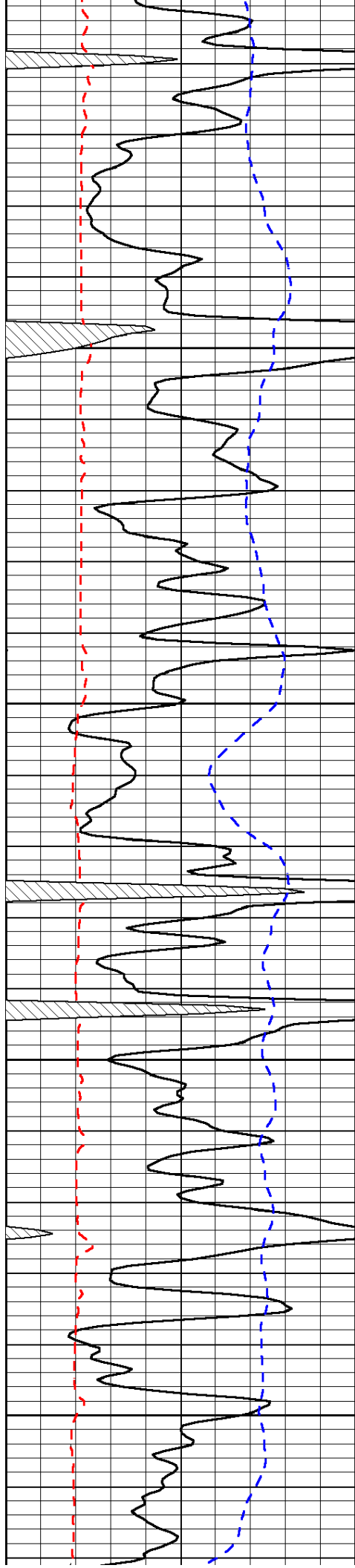
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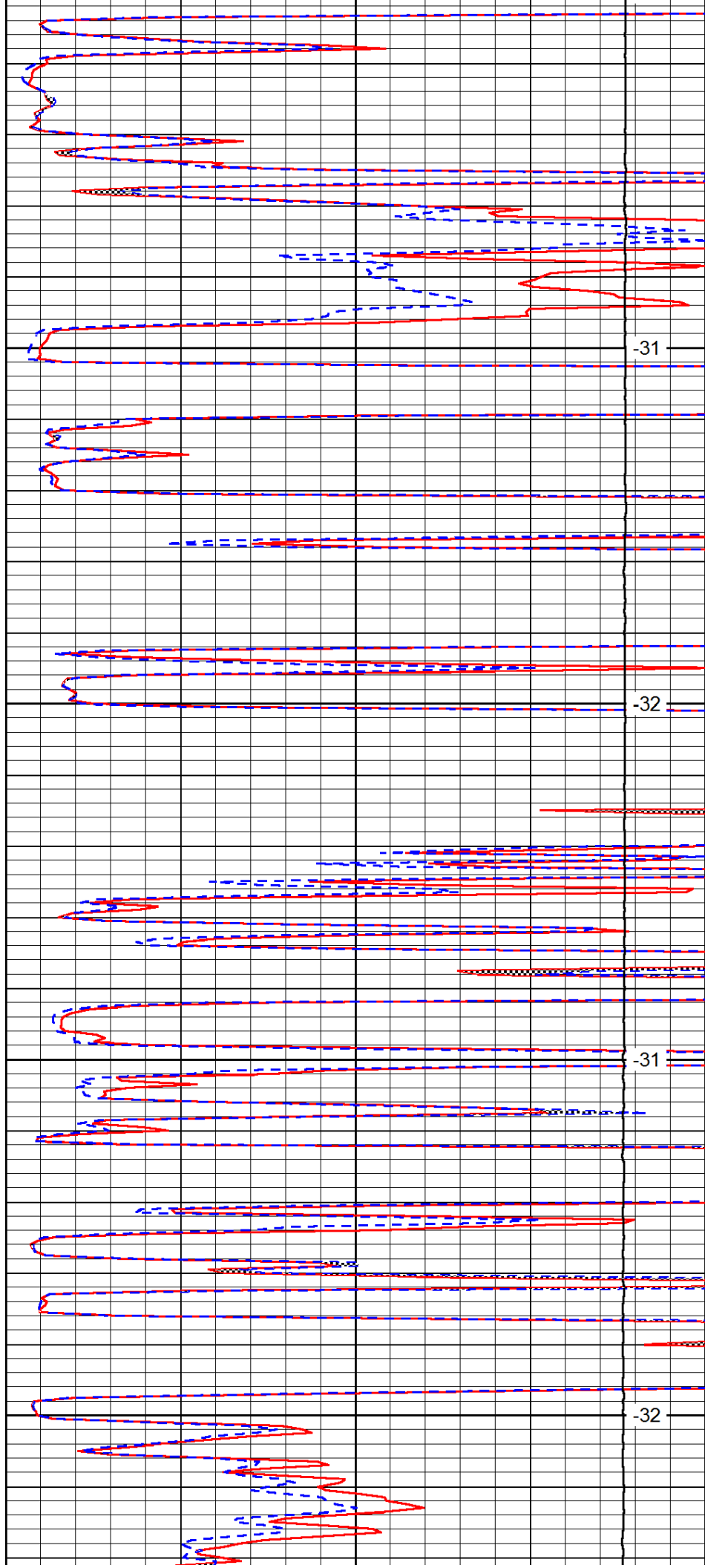


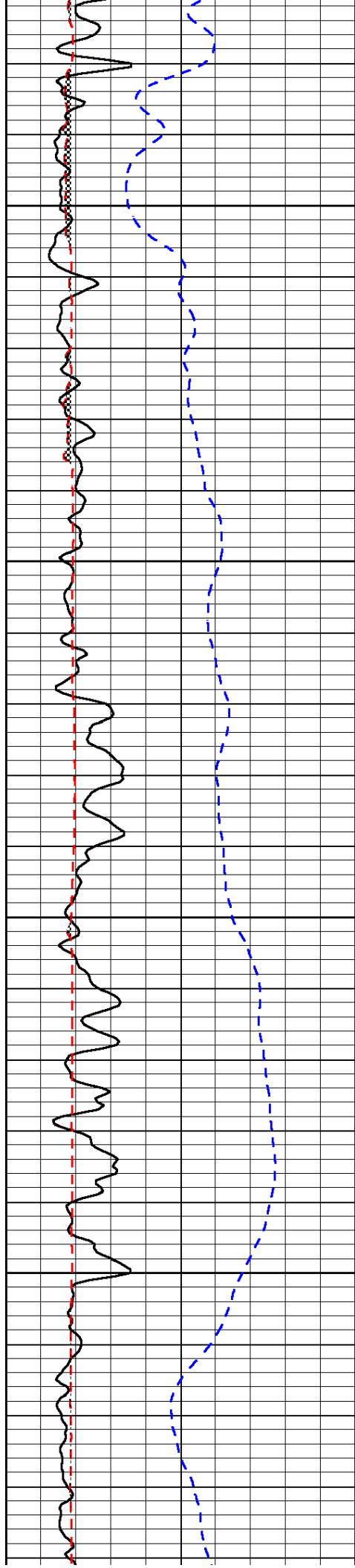
4800

4850

4900

4950





5000

5050

5100

5150

