



Pioneer Energy Services

Microresistivity Log

15-047-21,644-00-00

API No.

Company **Toto Energy, LLC**
 Well **Prince Of Whales #8-1**
 Field **Wil**
 County **Edwards** State **Kansas**

Location **1650' FNL & 2300' FEL**
 Sec: **8** Twp: **26S** Rge: **16W**

Other Services
 CNL/CDL
 DIL

Permanent Datum **Ground Level** Elevation **2083**
 Log Measured From **Kelly Bushing** **11** Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2094
 D.F. _____
 G.L. 2083

Date	8/10/2014
Run Number	Two
Depth Driller	4870
Depth Logger	4867
Bottom Logged Interval	4866
Top Log Interval	3700
Casing Driller	8.625 @ 357
Casing Logger	354
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	6500
Density / Viscosity	9.45 49
pH / Fluid Loss	8.9 12.8
Source of Sample	Flowline
Rm @ Meas. Temp	0.85 @ 76
Rmf @ Meas. Temp	0.64 @ 76
Rmc @ Meas. Temp	1.15 @ 76
Source of Rmf / Rmc	Charts
Rm @ BHT	0.52 @ 125
Operating Rig Time	4 Hours
Max Rec. Temp. F	125
Equipment Number	10
Location	Hays
Recorded By	D.Kerr
Witnessed By	Sonia McDanel

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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.pioneerenergy.com
 785 625 3858

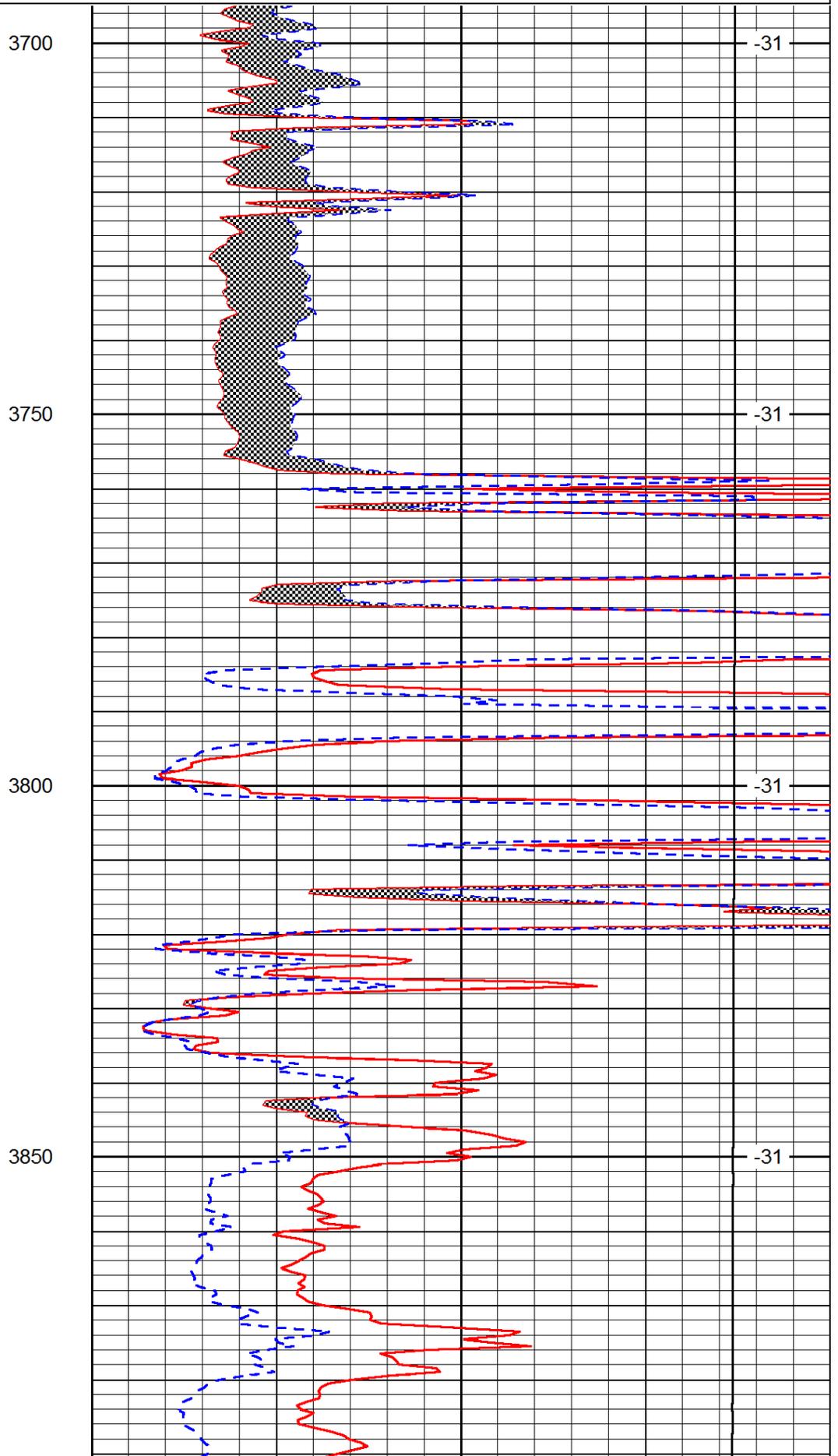
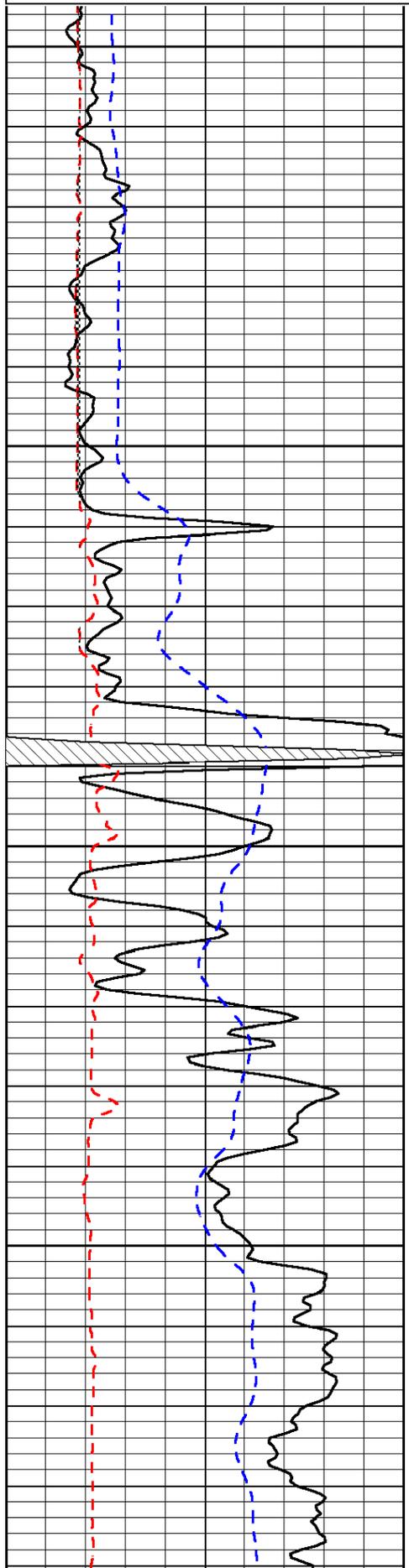
Trousdale KS, South to Stop Sign,
 1/2 South, West Into

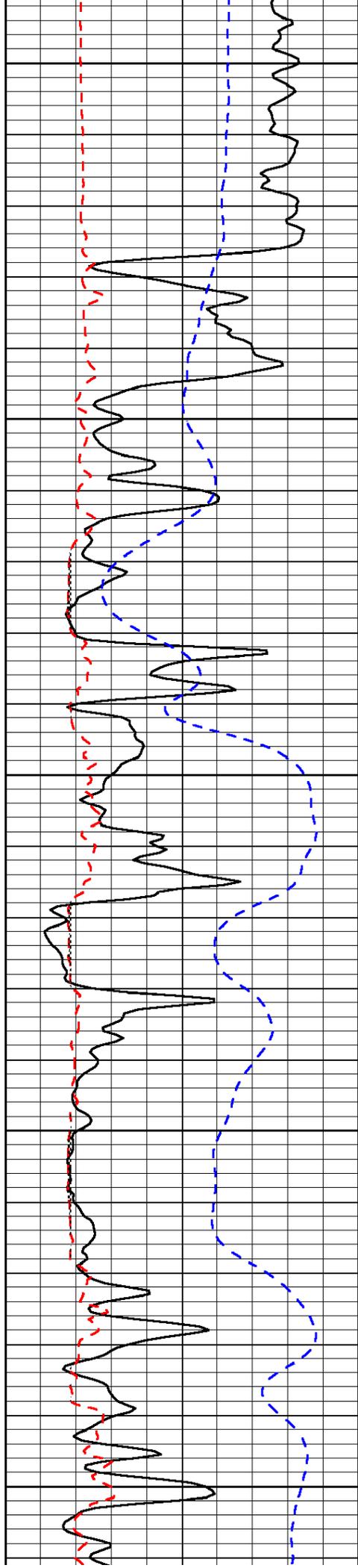
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 Presentation Format: micro
 Dataset Creation: Sun Aug 10 05:02:22 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

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

LSPD





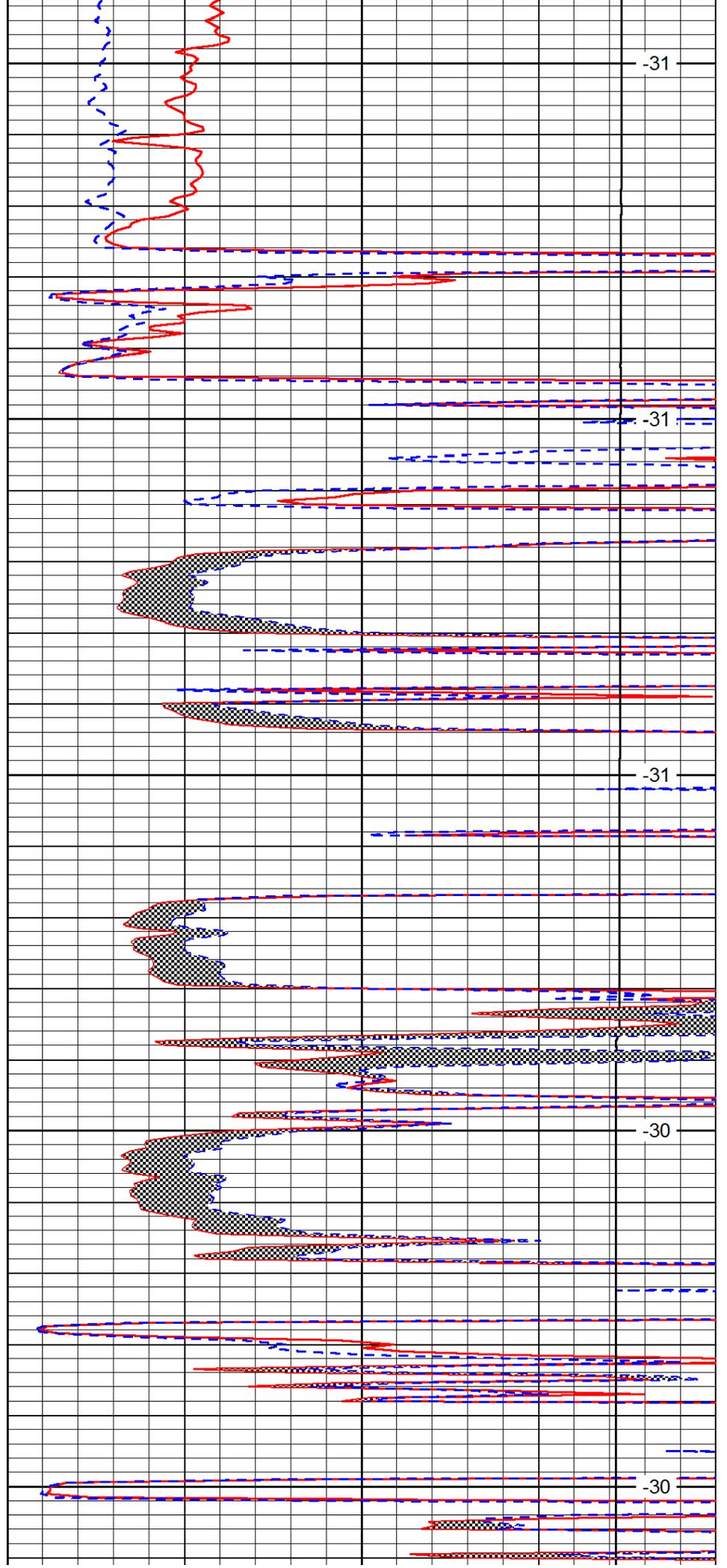
3900

3950

4000

4050

4100



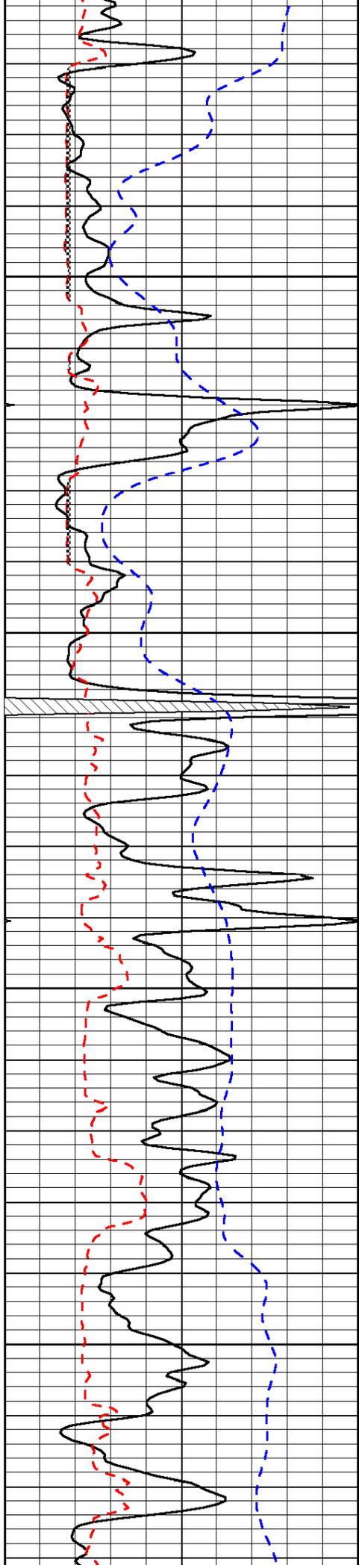
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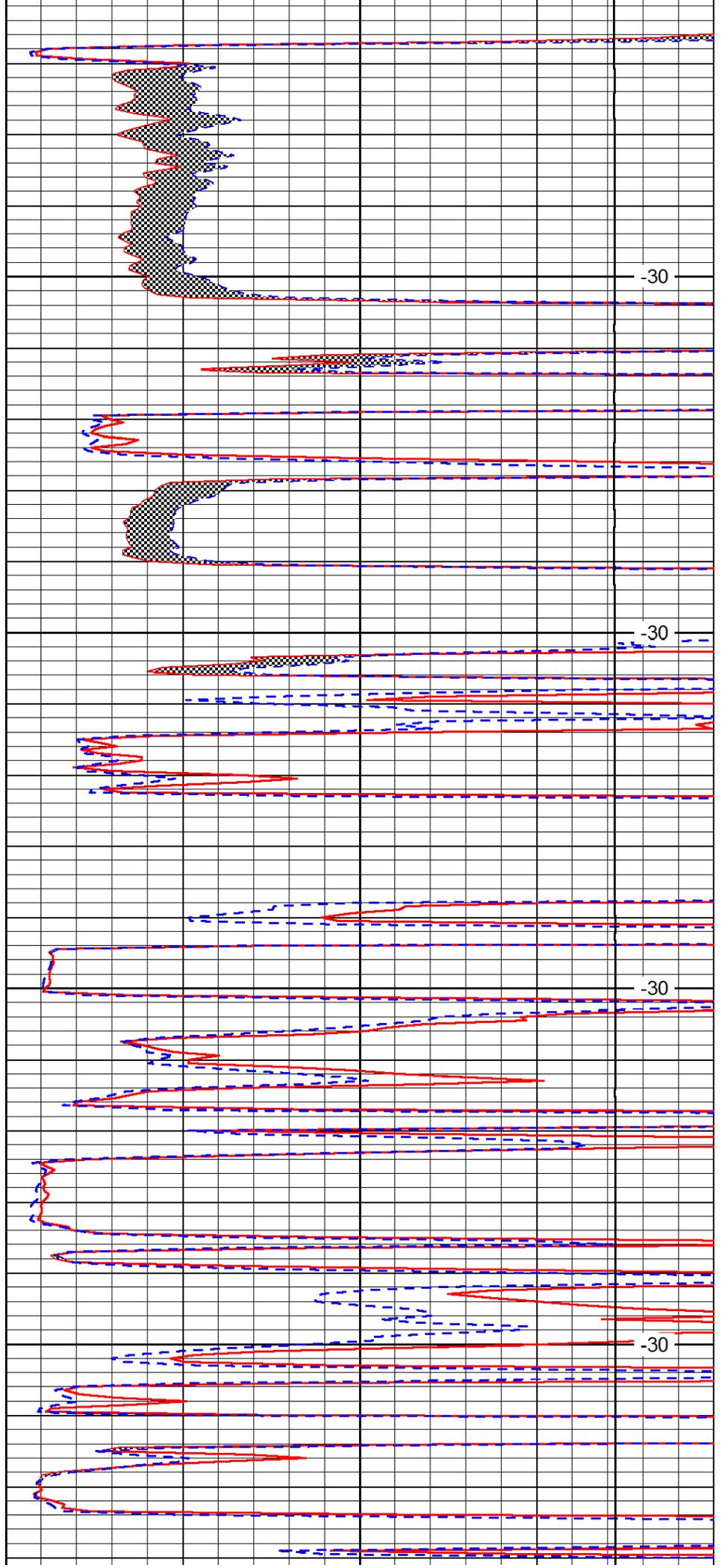


4150

4200

4250

4300

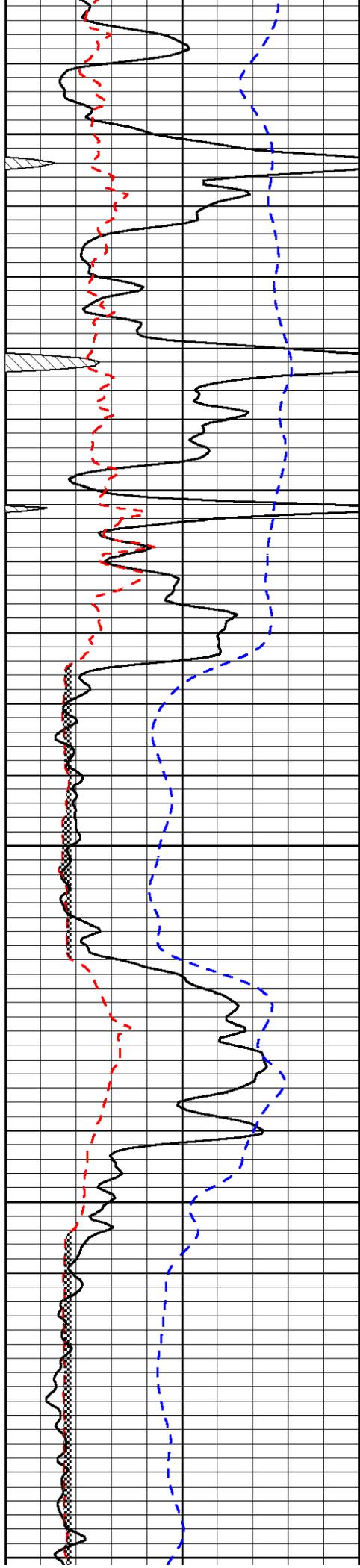


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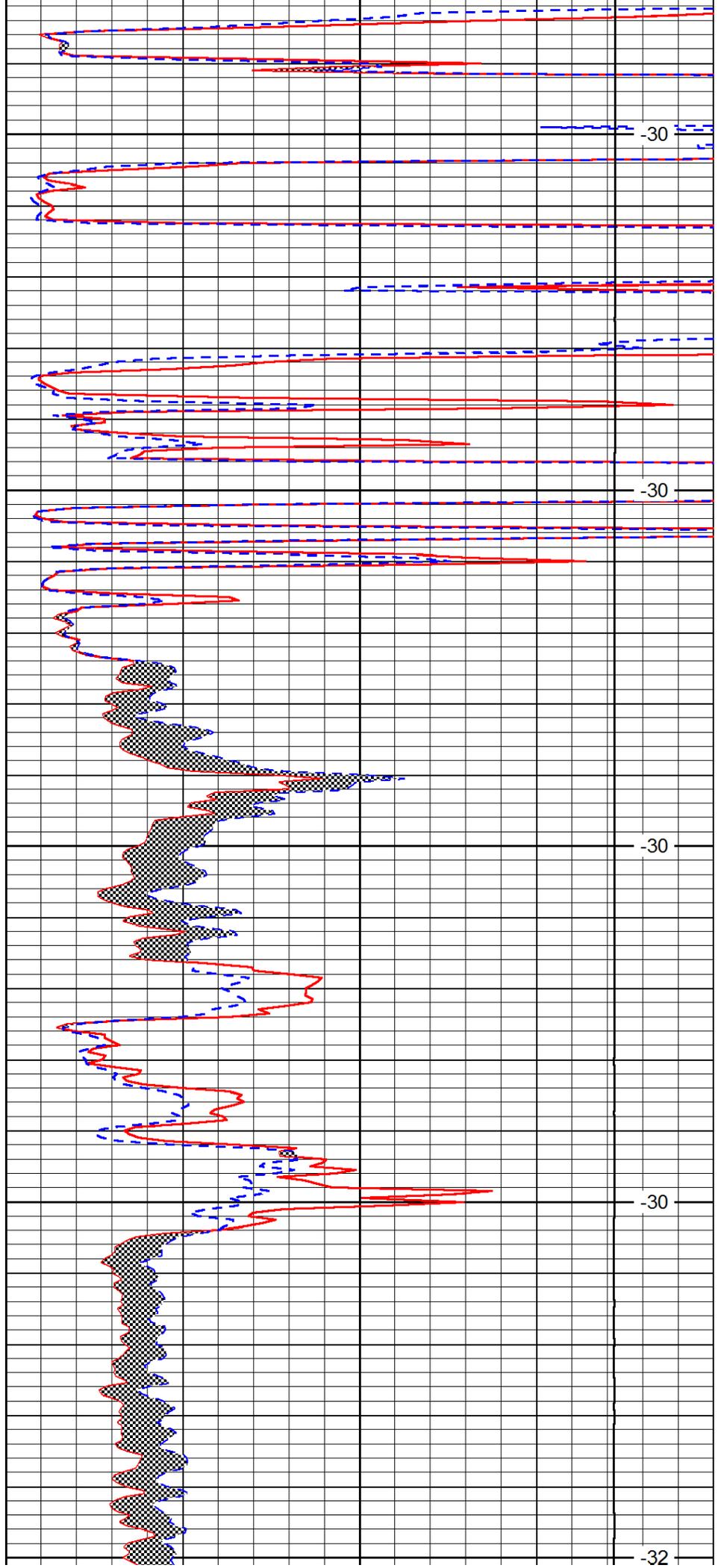
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4400

4450

4500

4550



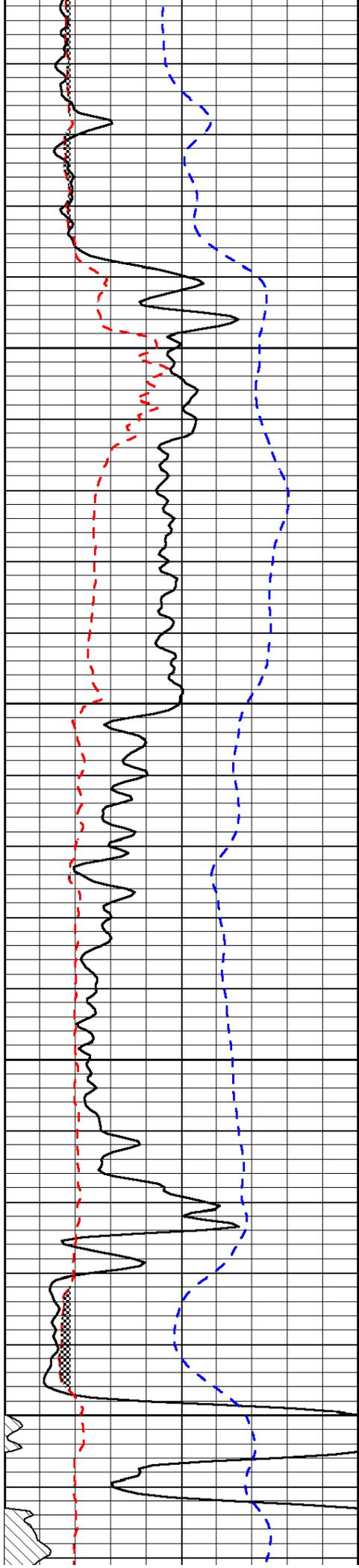
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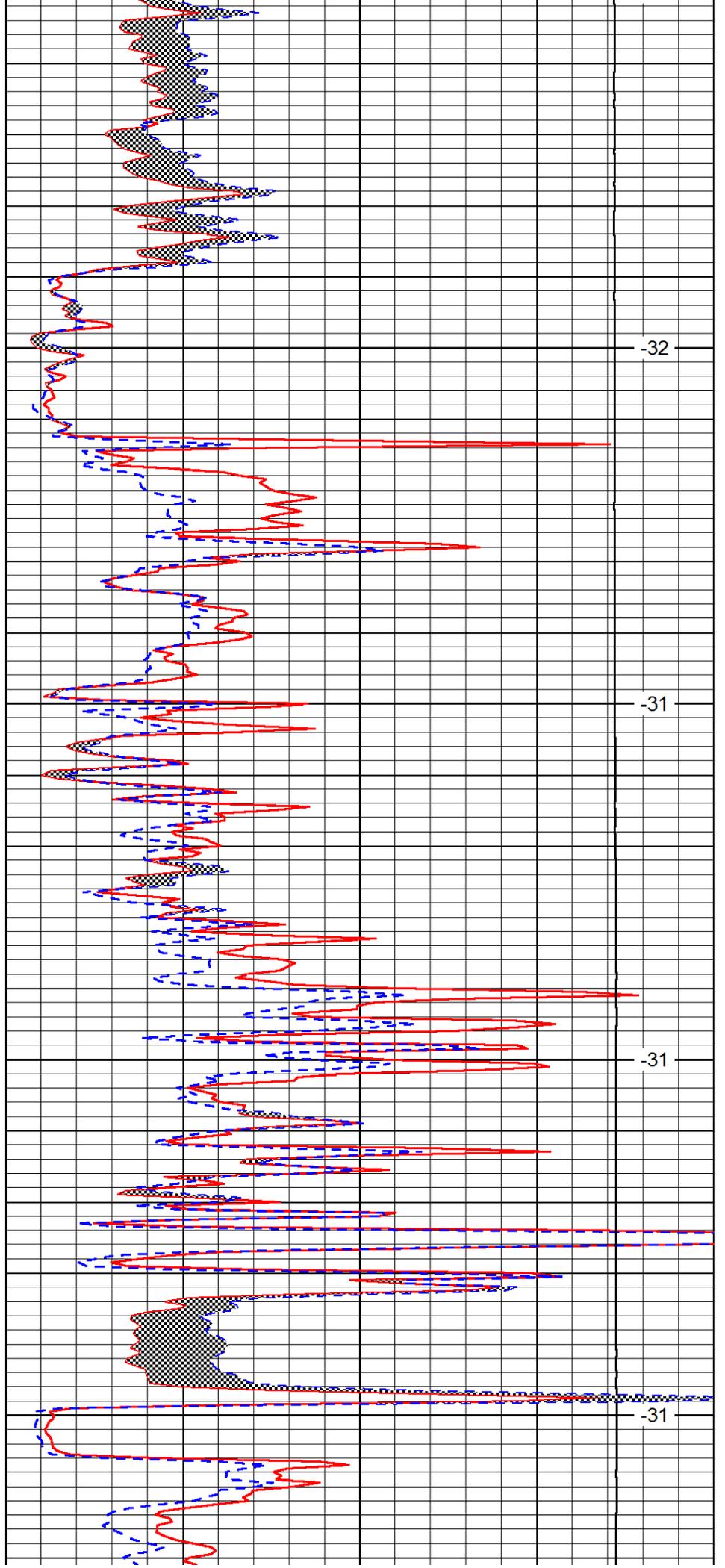


4600

4650

4700

4750



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