



Pioneer Energy Services

Microresistivity Log

15-109-21,357-00-00

API No.

Company **Lario Oil & Gas Company**
 Well **Krebs A #5-34**
 Field **Elkader Townsite**
 County **Logan** State **Kansas**

Location **335' FNL & 1980' FWL**
 Sec: **34** Twp: **14S** Rge: **32W**

Other Services
 CNL/CDL
 DIL

Permanent Datum **Ground Level** Elevation **2645**
 Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2656
 D.F. 2645
 G.L. 2645

Date	11/28/2014
Run Number	Two
Depth Driller	4400
Depth Logger	4404
Bottom Logged Interval	4403
Top Log Interval	3200
Casing Driller	8.625 @ 235
Casing Logger	234
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2500
Density / Viscosity	9.2 54
pH / Fluid Loss	9.5 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	0.63 @ 58
Rmf @ Meas. Temp	0.47 @ 58
Rmc @ Meas. Temp	0.85 @ 58
Source of Rmf / Rmc	Charts
Rm @ BHT	0.30 @ 120
Operating Rig Time	4 Hours
Max Rec. Temp. F	120
Equipment Number	15
Location	Hays
Recorded By	D.Kerr
Witnessed By	Steve Davis

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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.pioneeres.com
 785 625 3858

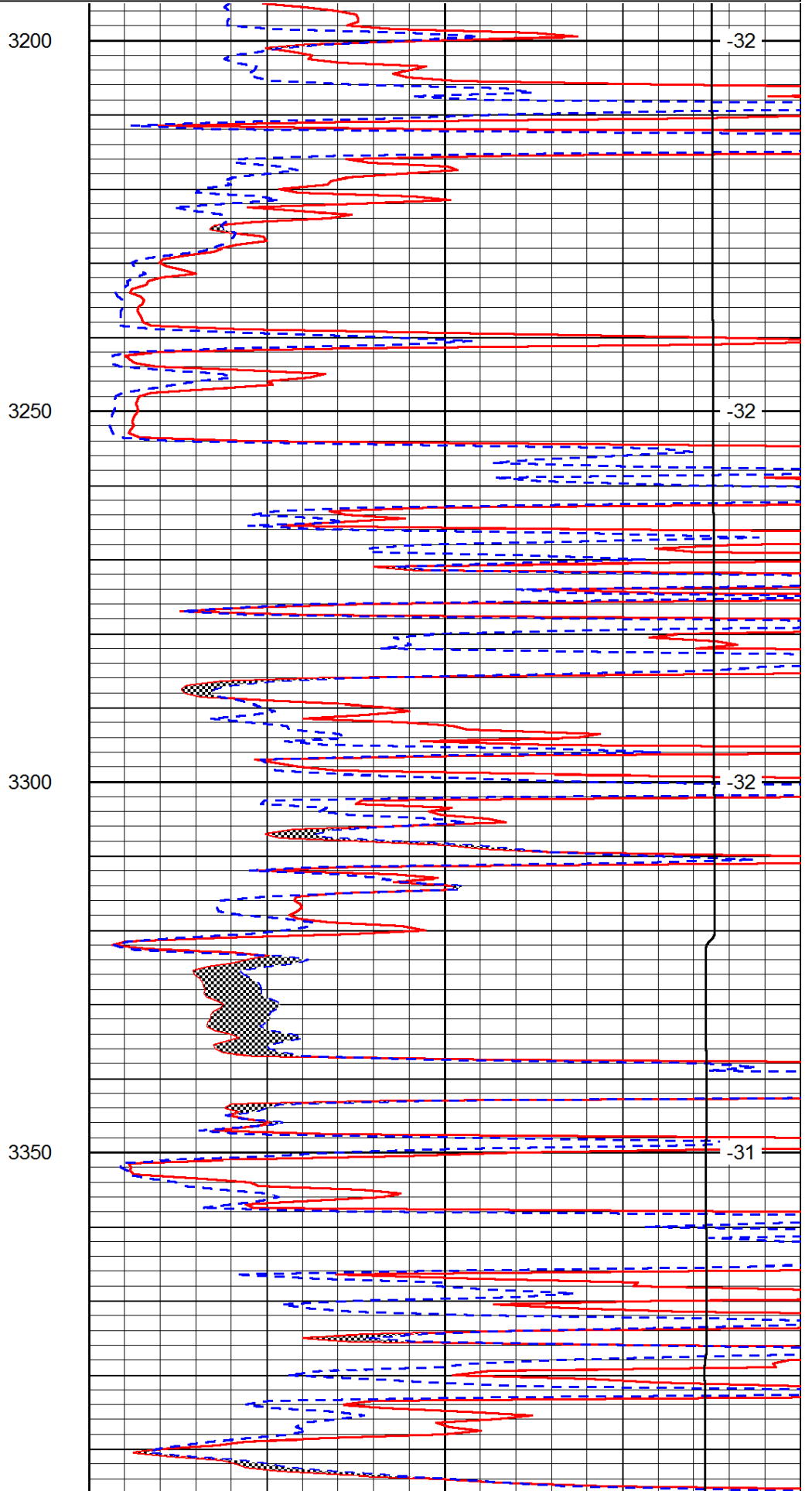
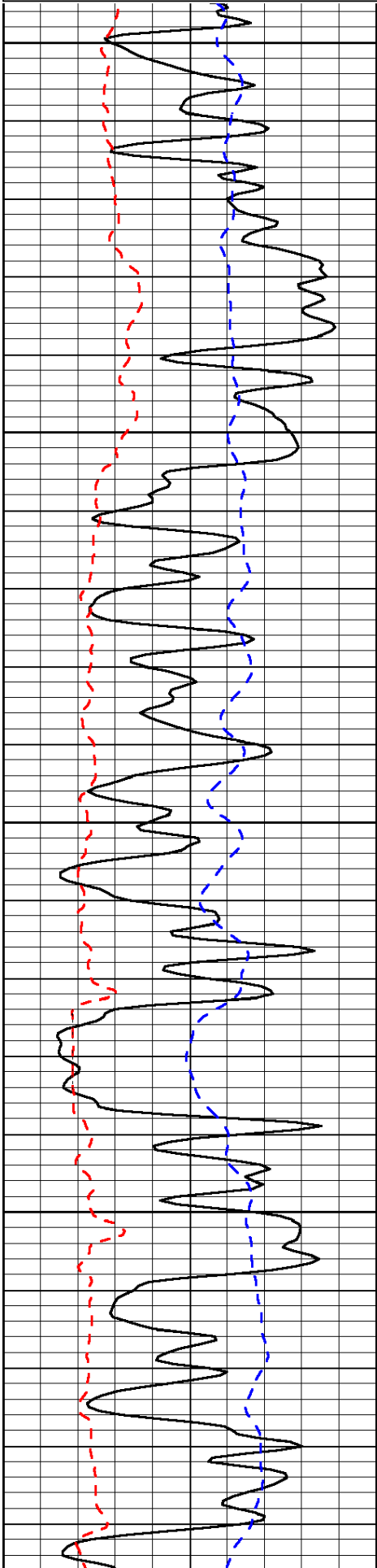
Oakley KS, South to Smoky River, 1/4 South,
 1/2 West and South, North Into

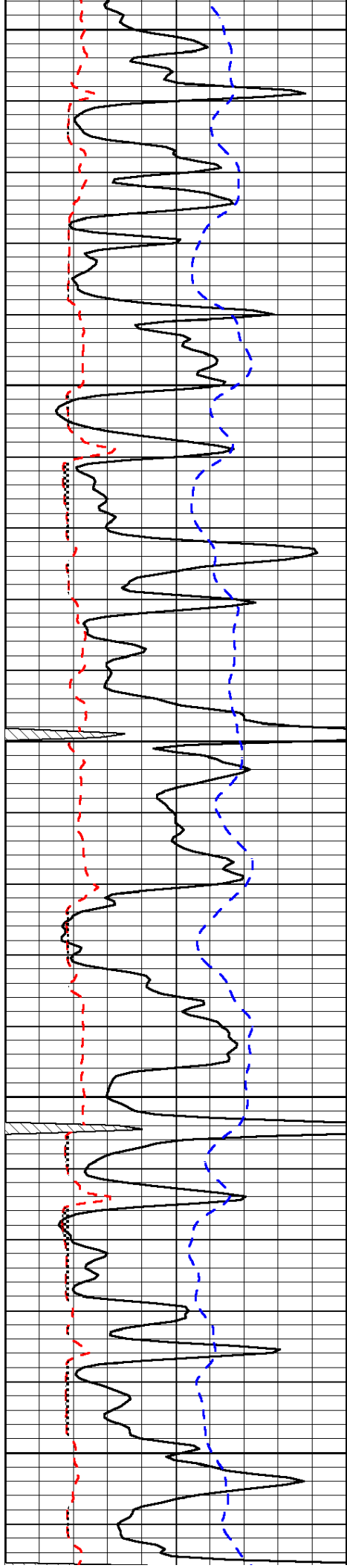
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 Dataset Pathname: DIL\lariostk
 Presentation Format: micro
 Dataset Creation: Fri Nov 28 09:47:34 2014
 Charted by: Depth in Feet scaled 1:240

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





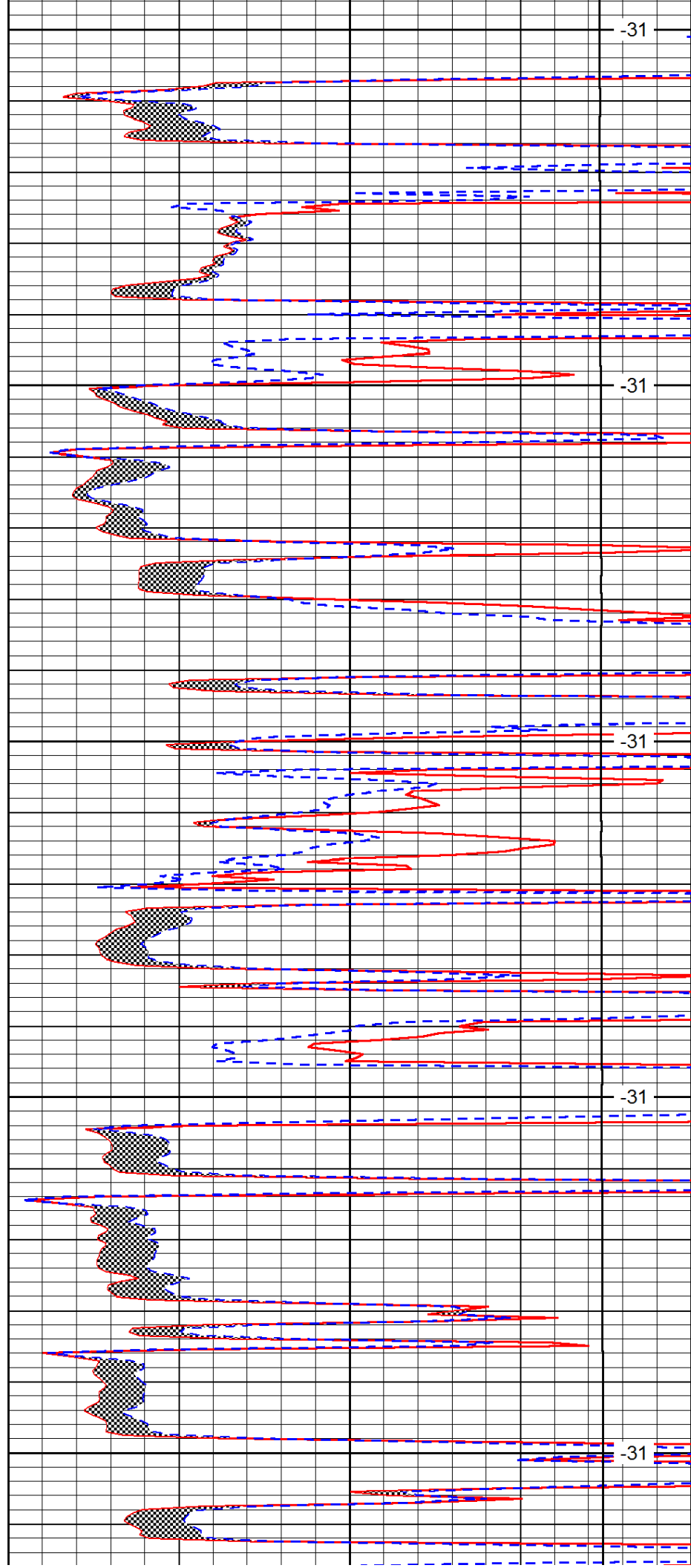
3400

3450

3500

3550

3600



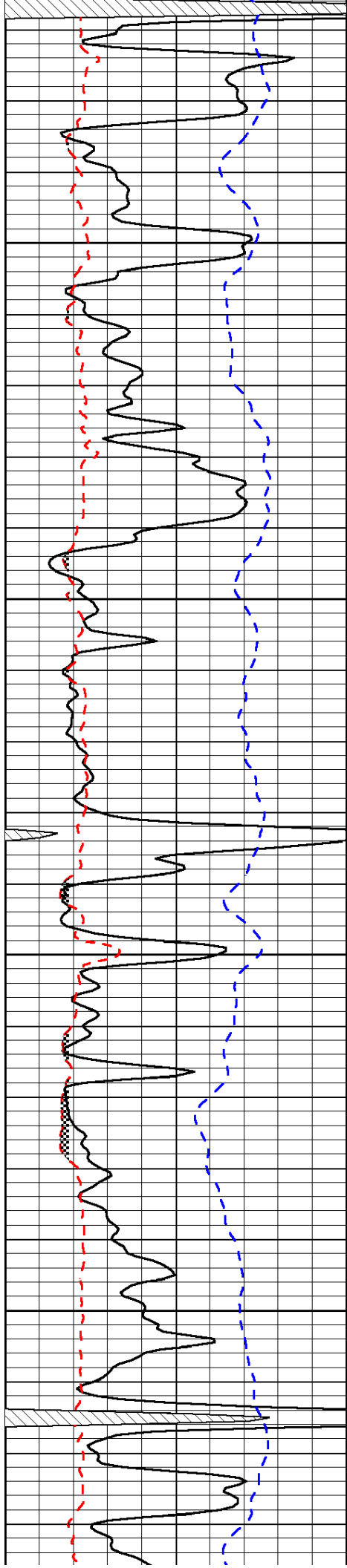
-31

-31

-31

-31

-31

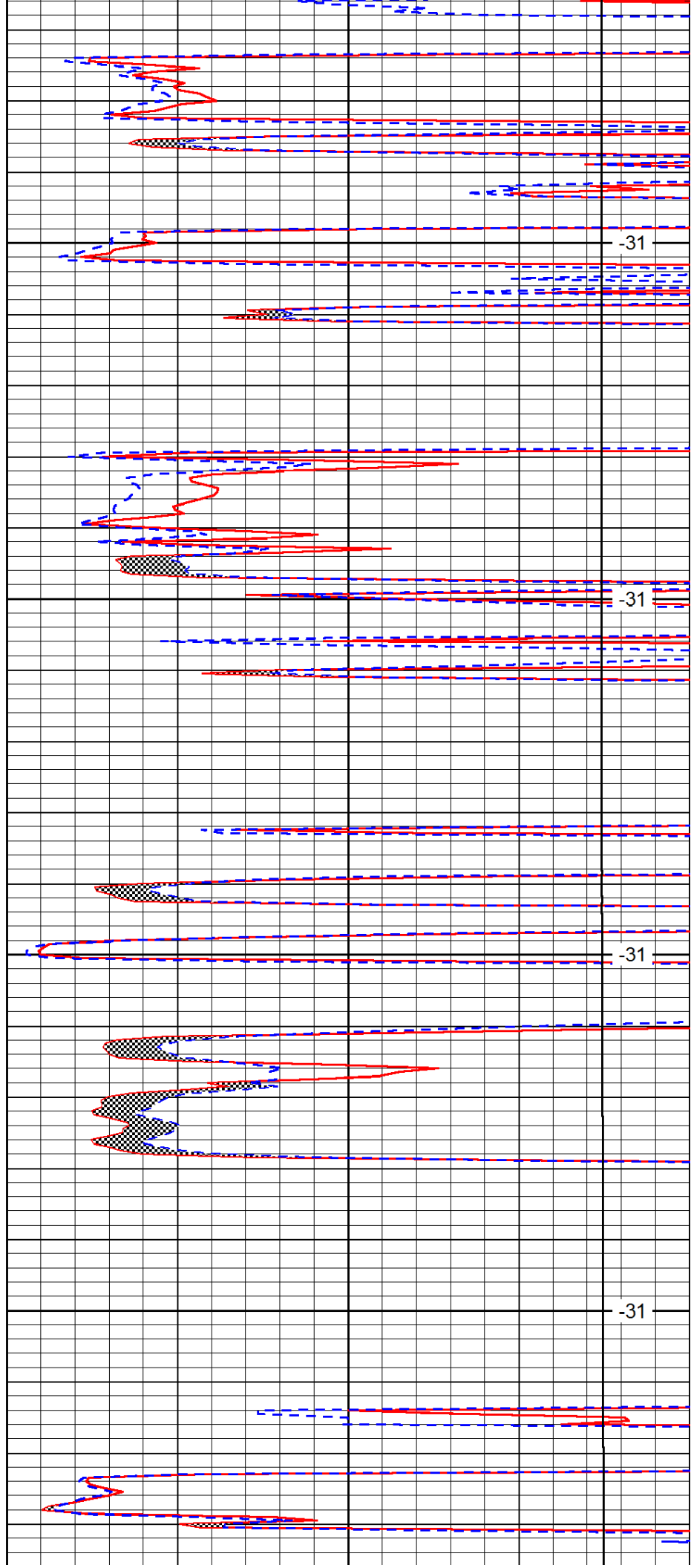


3650

3700

3750

3800

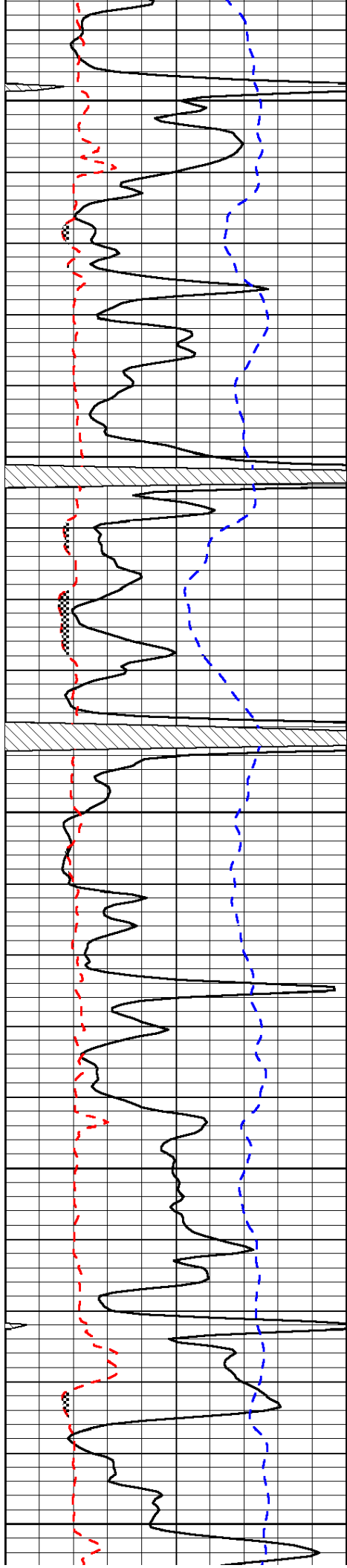


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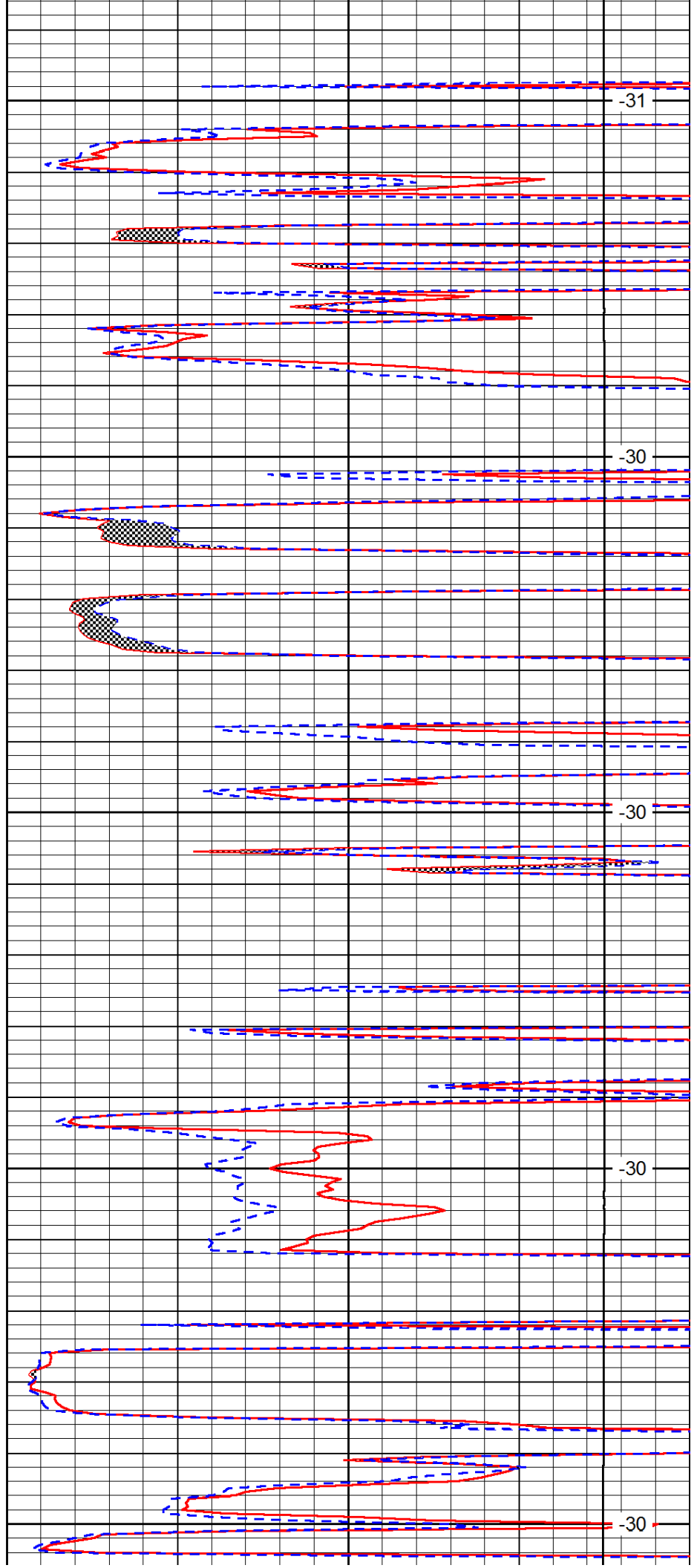
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3900

3950

4000

4050



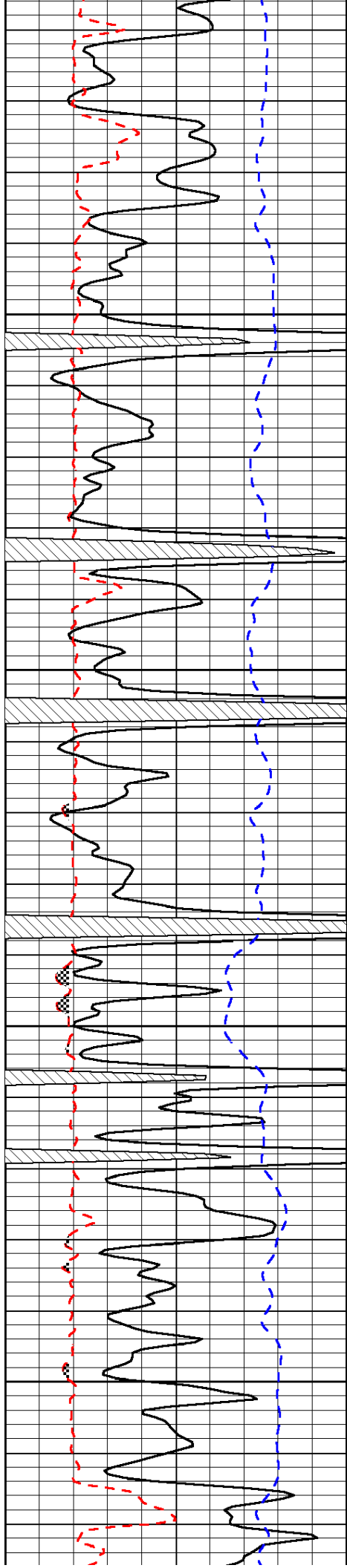
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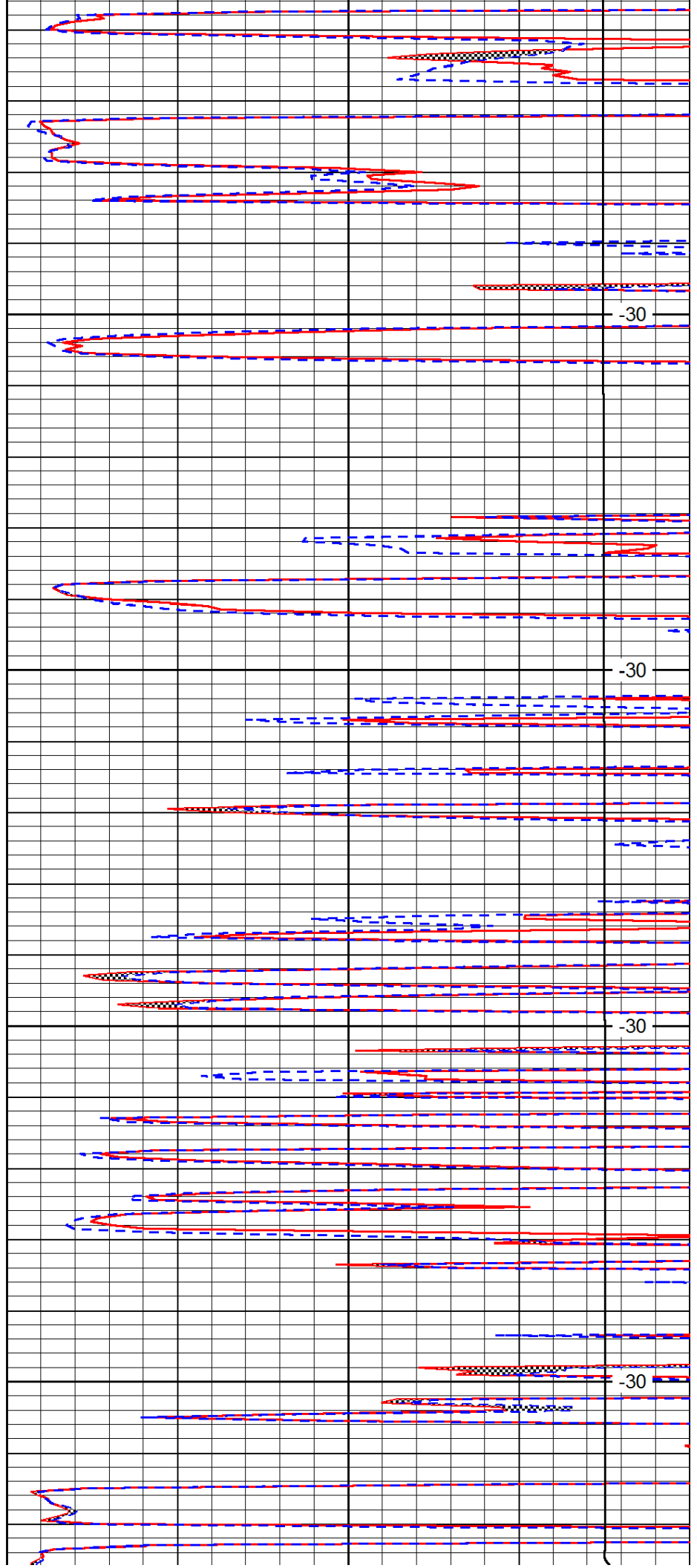


4100

4150

4200

4250

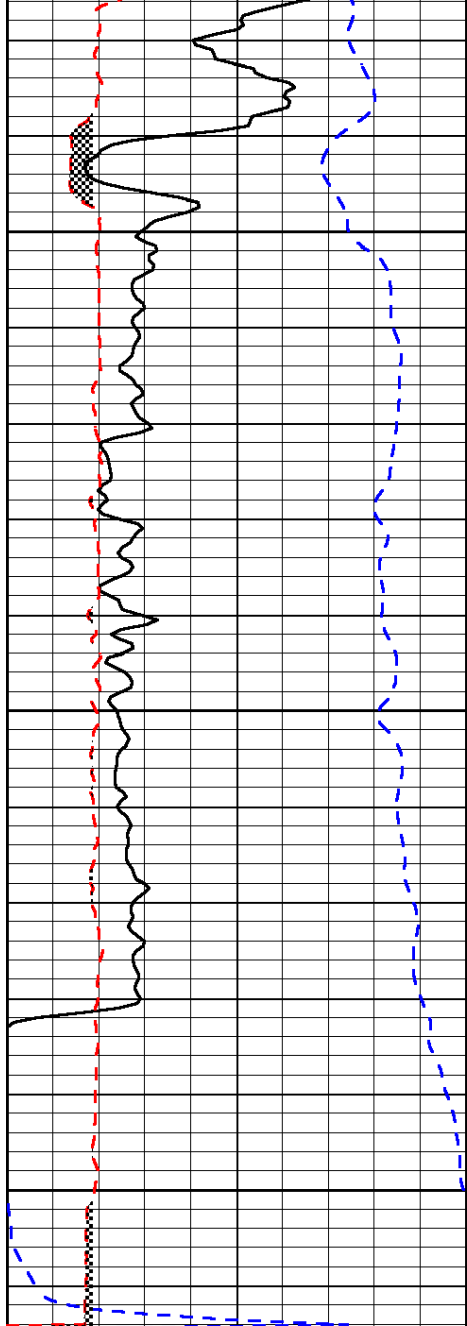


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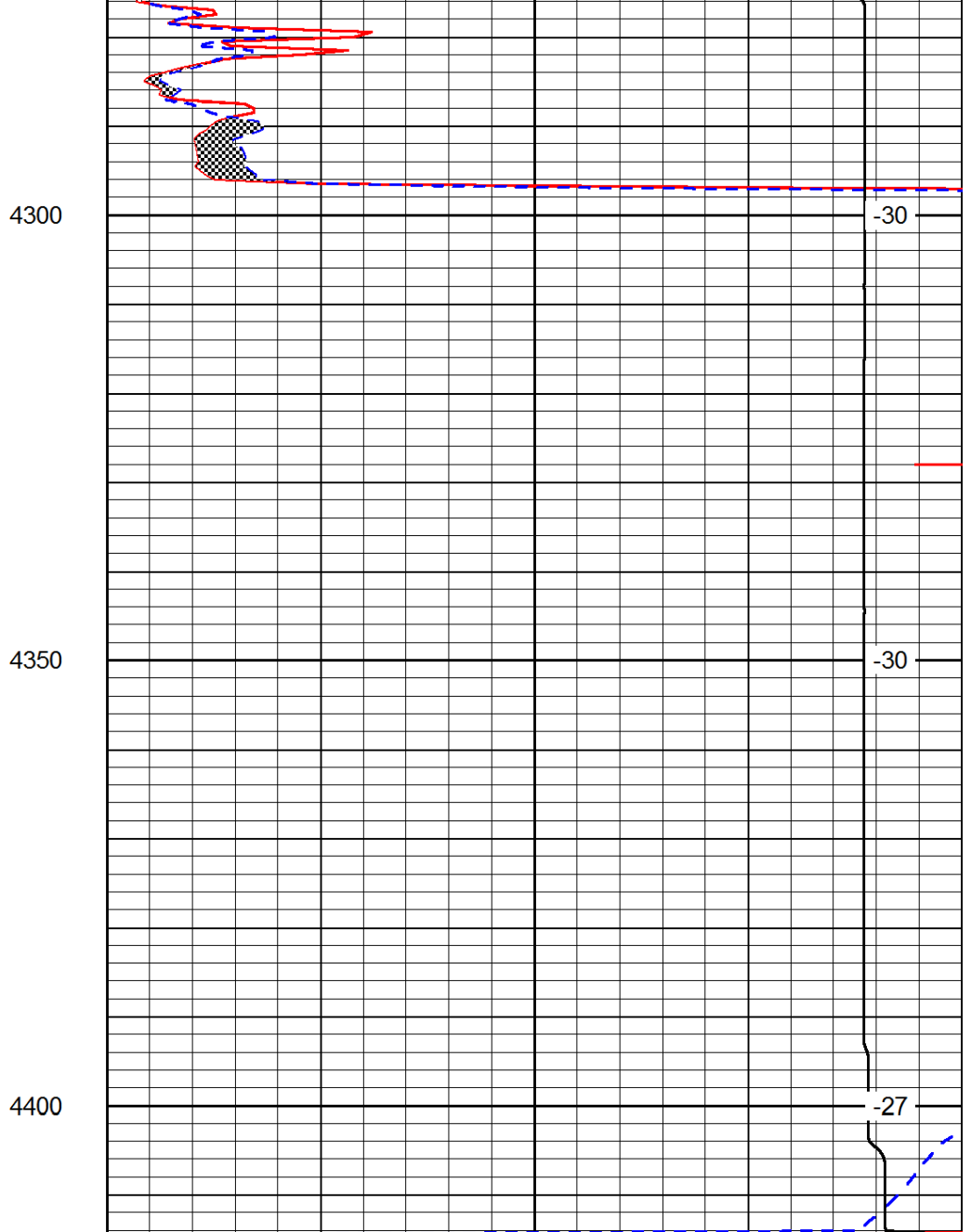
-30

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