



Pioneer Energy Services

Microresistivity Log

API No.

15-159-22816-00-00

Company **Lebsack Oil Production, Inc.**

Well **North River #5**

Field **Groves**

County **Rice**

State

Kansas

Location

1320' FNL / 1320' FWL

Sec: **34**

Twp: **20S**

Rge: **10W**

Elevation

Permanent Datum **Ground Level**
Log Measured From **Kelly Bushing**
Drilling Measured From **Kelly Bushing**

Elevation **1716**
K.B. **1725**
D.F. **1716**
G.L. **1716**

Date

12/21/2014

Run Number

Two

Depth Driller

3250

Depth Logger

3248

Bottom Logged Interval

3247

Top Log Interval

2400

Casing Driller

8.625 @ 264

Casing Logger

262

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

5200

Density / Viscosity

9.0 @ 58

pH / Fluid Loss

10.5 @ 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

1.10 @ 70

Rmf @ Meas. Temp

0.83 @ 70

Rmc @ Meas. Temp

1.49 @ 70

Source of Rmf / Rmc

Charts

Rm @ BHT

0.71 @ 109

Operating Rig Time

4 Hours

Max Rec. Temp. F

109

Equipment Number

15

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Josh Austin

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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.

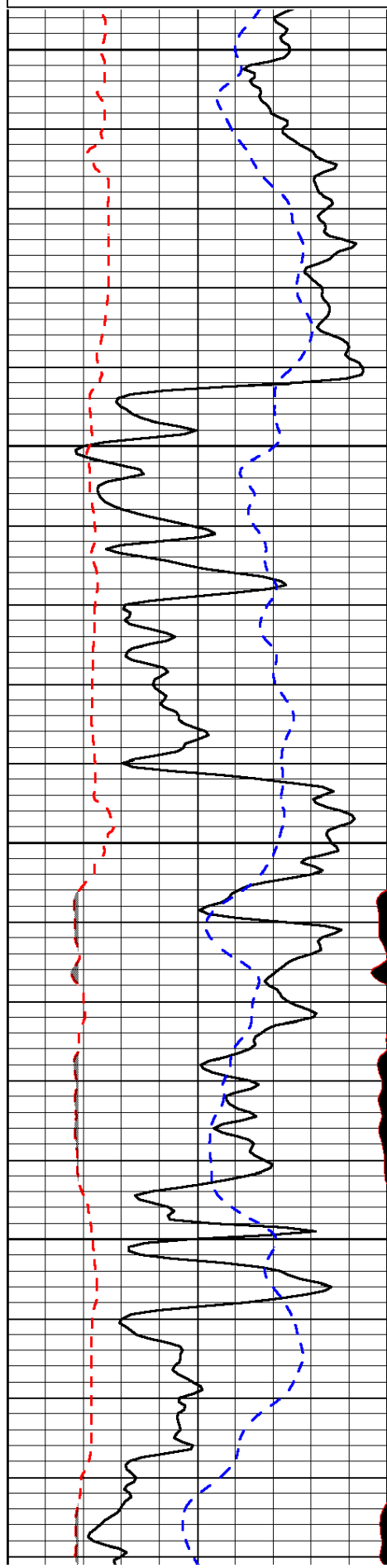
Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Raymond, KS:
1/2W, S into

Database File: lebsack_hd.db
Dataset Pathname: dil/lebsmain
Presentation Format: micro
Dataset Creation: Sun Dec 21 21:02:52 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0



2400

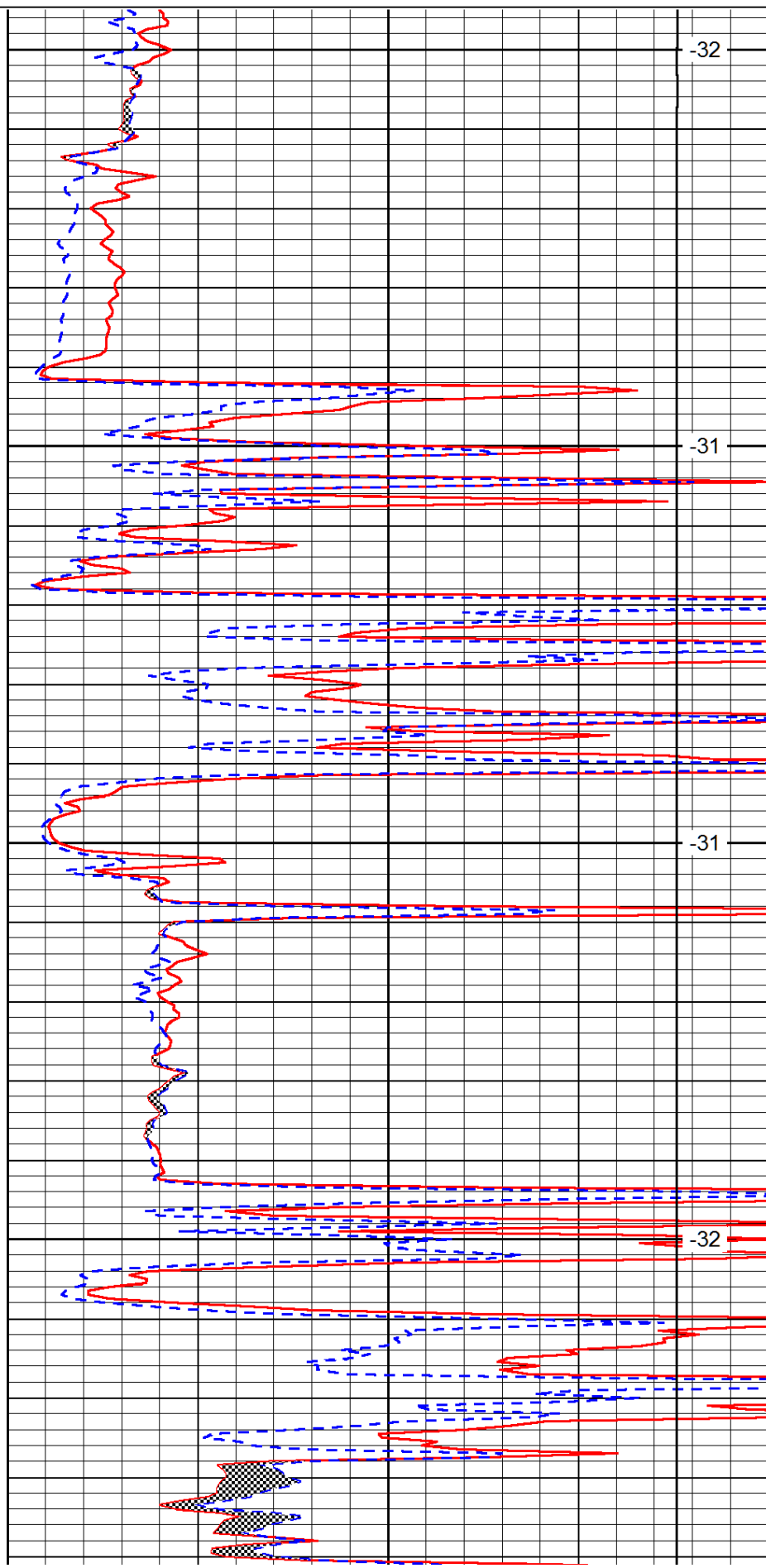
2450

2500

2550

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

LSPD

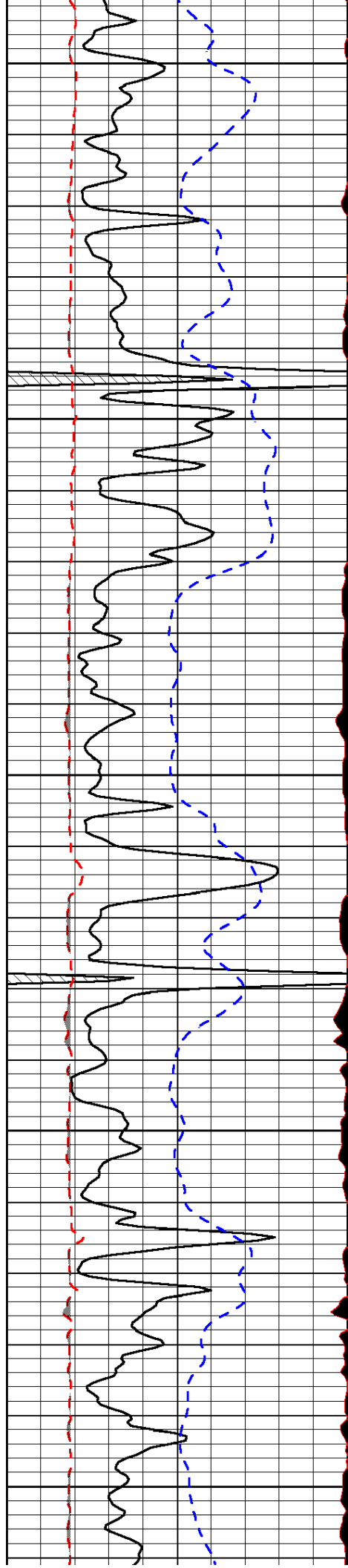


-32

-31

-31

-32



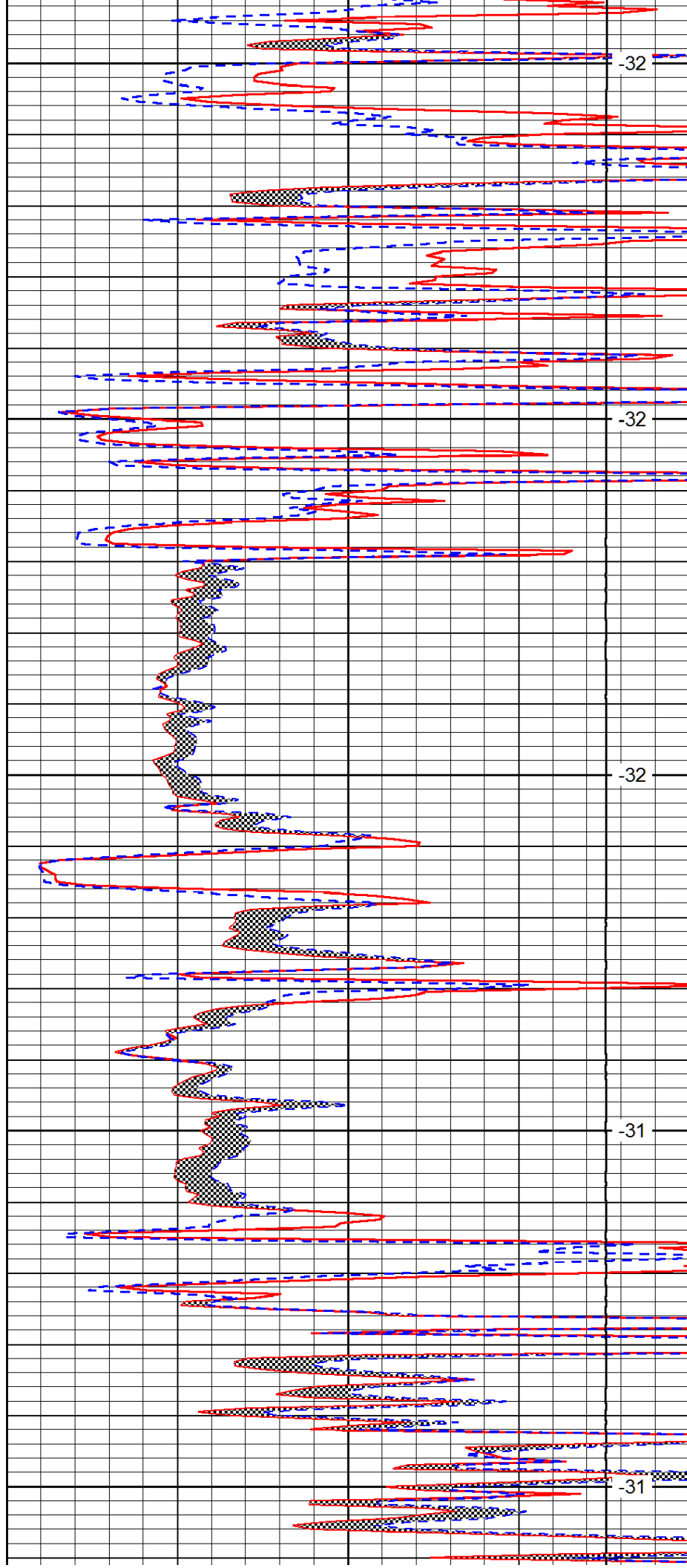
2600

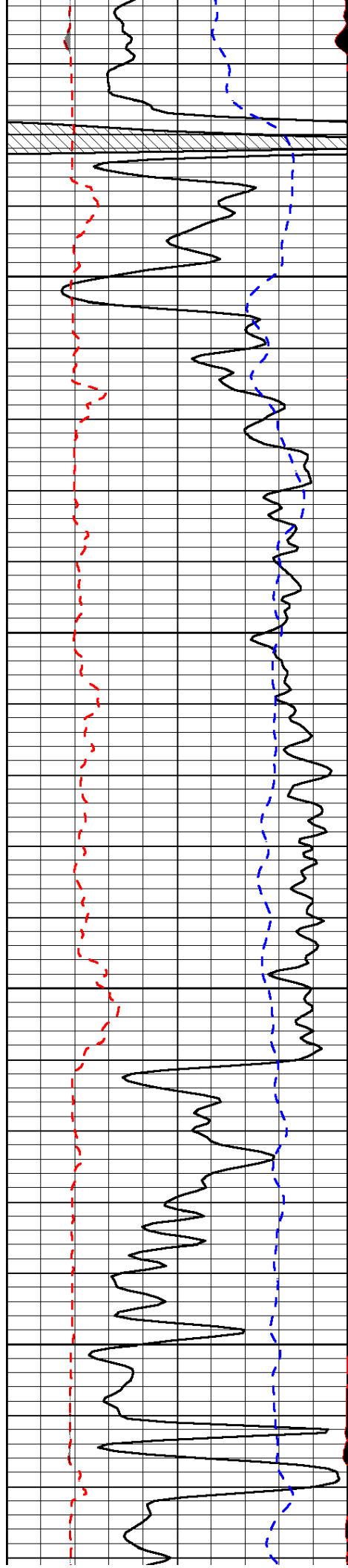
2650

2700

2750

2800



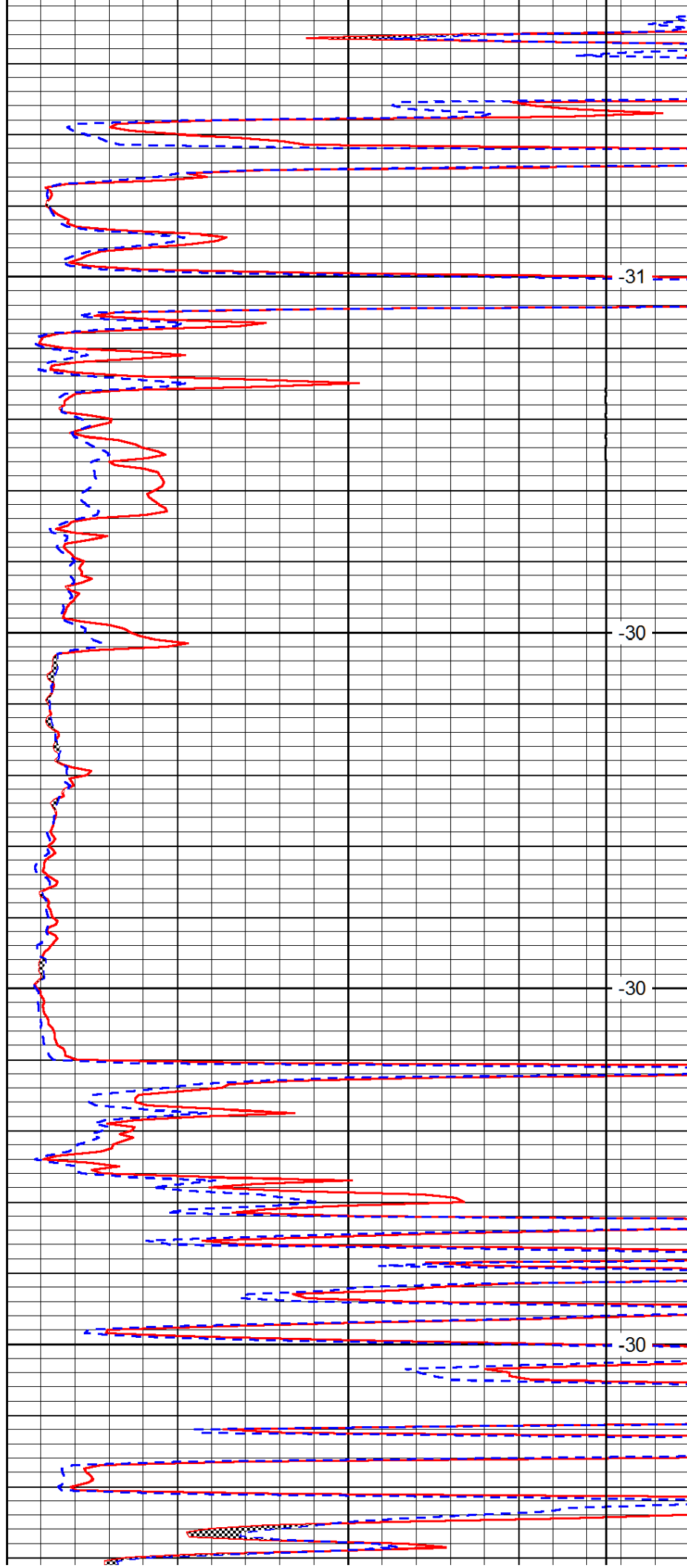


2850

2900

2950

3000

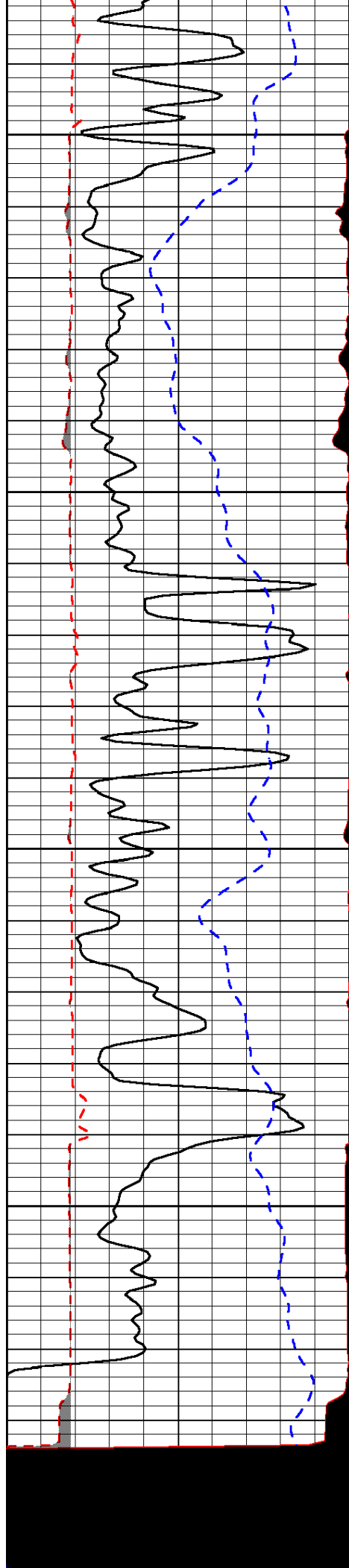


-31

-30

-30

-30



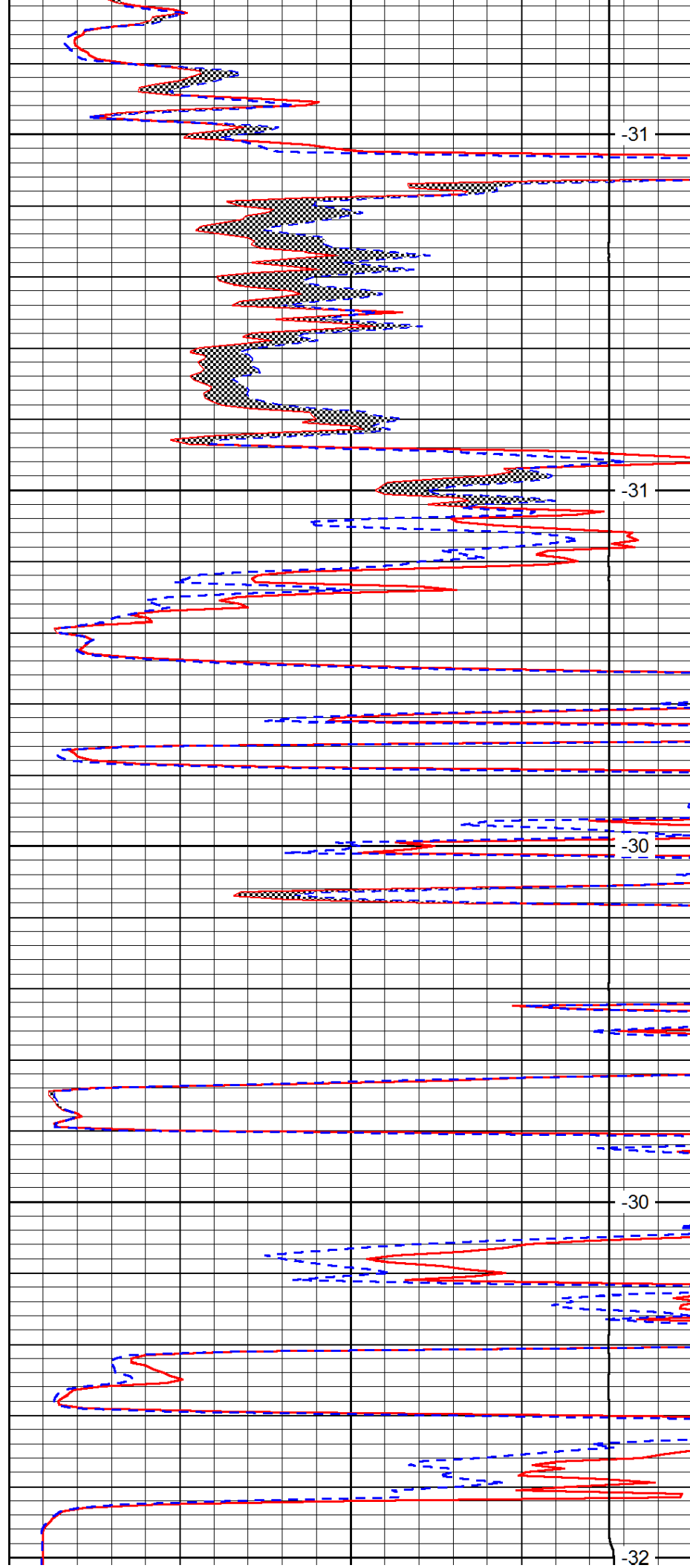
3050

3100

3150

3200

3250



-31

-31

-30

-30

-32

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