



Microresistivity Log

Pioneer Energy Services

API No.

15-159-22,810-00-00

Company **Lebsack Oil Production, Inc.**

Well **North River #4**

Field **Grove**

County

Rice

State

Kansas

Location

2900' FNL & 220' FWL

Sec: **34**

Twp: **20S**

Rge: **10W**

Elevation

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

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 1716
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured Frontkelly Bushing

Date 12/10/2014

Run Number Two

Depth Driller 3200

Depth Logger 3200

Bottom Logged Interval 3199

Top Log Interval 2500

Casing Driller 8.625 @ 264

Casing Logger 262

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5300

Density / Viscosity 9.1 46

pH / Fluid Loss 10.0 7.2

Source of Sample Flowline

Rm @ Meas. Temp .90 @ 62

Rmf @ Meas. Temp .68 @ 62

Rmc @ Meas. Temp 1.22 @ 62

Source of Rmf / Rmc Charts

Rm @ BHT .52 @ 108

Operating Rig Time 3 Hours

Max Rec. Temp. F 108

Equipment Number 108

Location Hays

Recorded By D. Fischer

Witnessed By Joshua 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 Pioneer Energy Services
www.pioneerres.com
785 625 3858

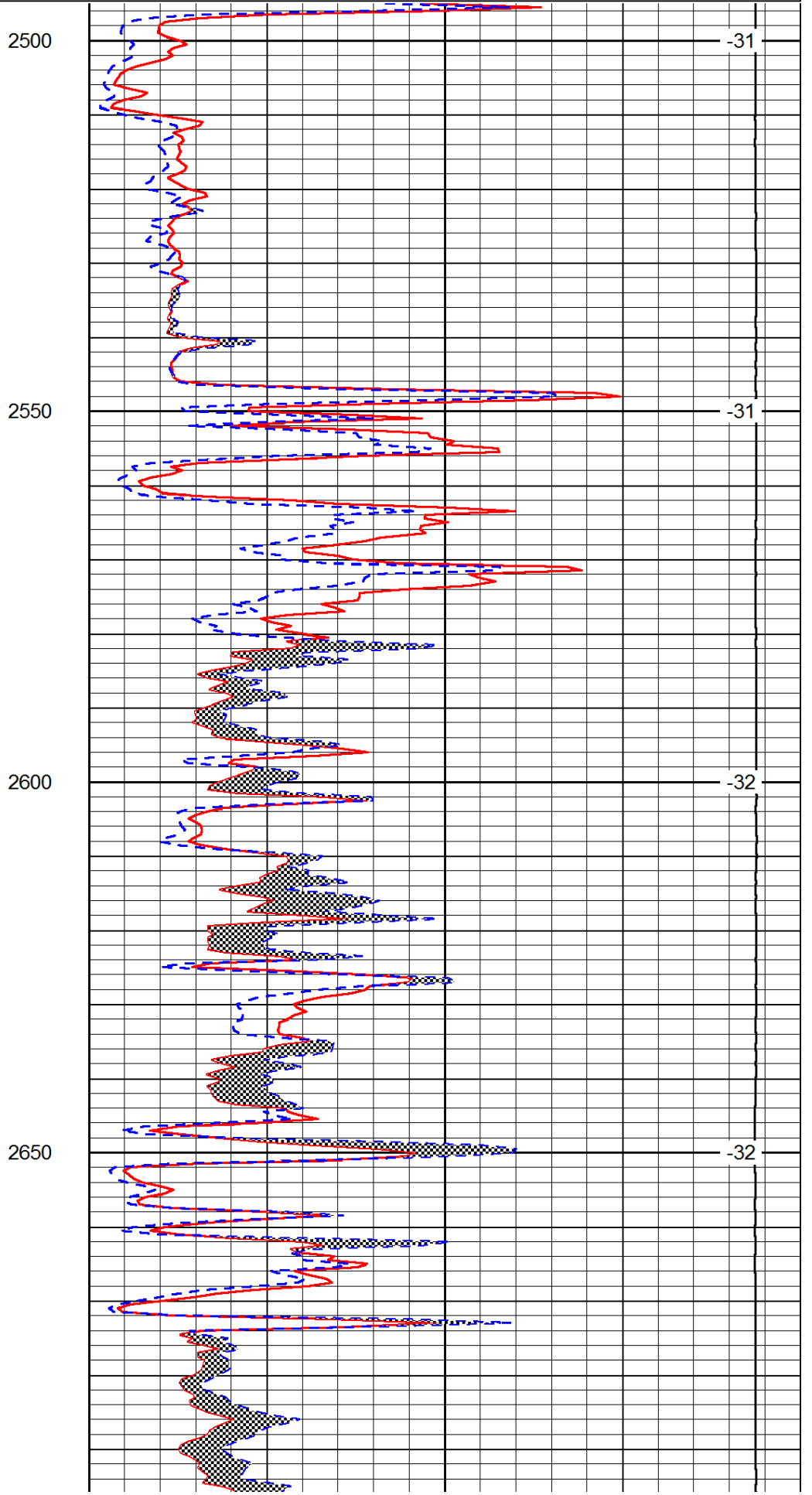
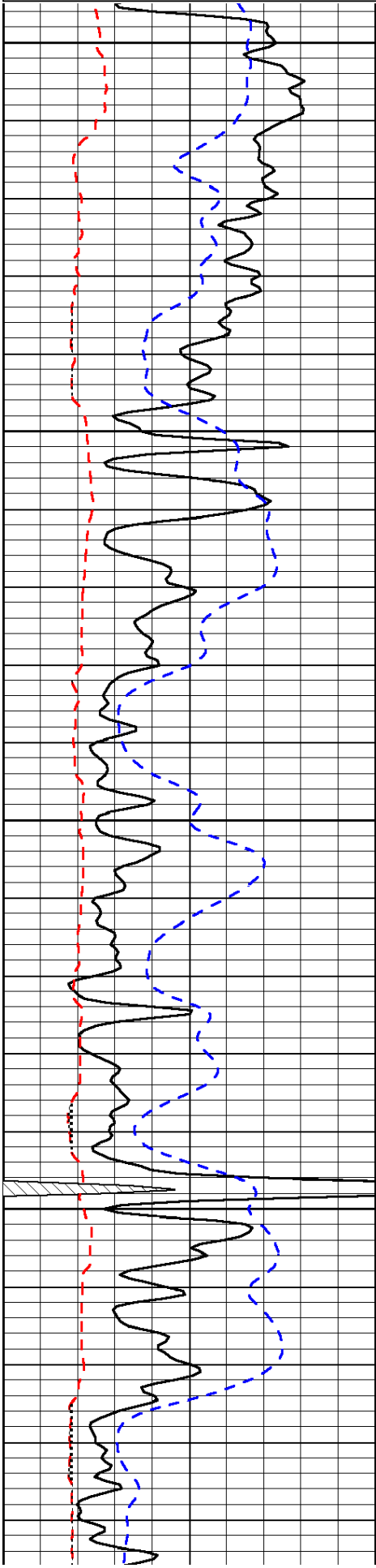
Raymond Ks., 1/2 West, South Into.

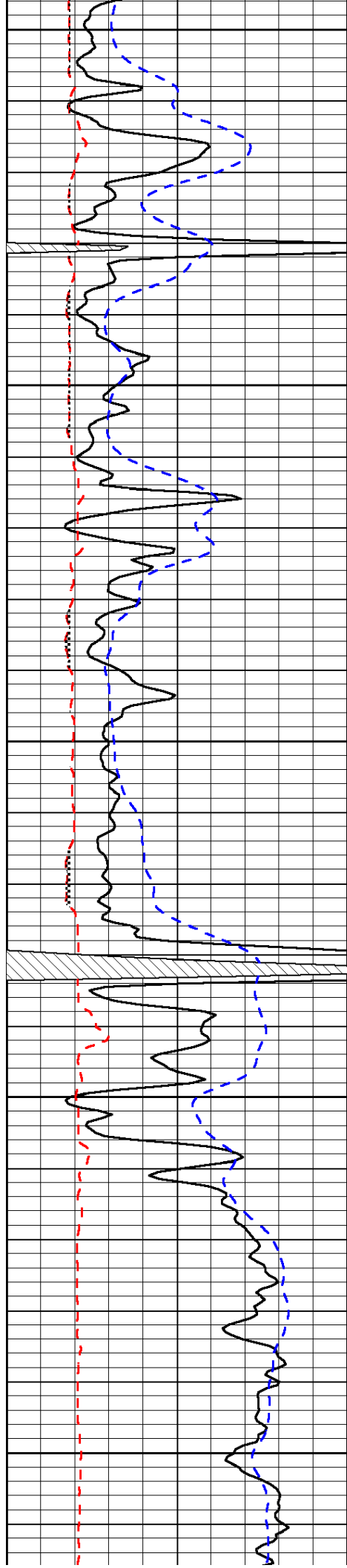
Database File: c:\warrior\data\lebsack_north river #4\lebsack_oil_north_river_4hd.db
Dataset Pathname: DIL\lebstck
Presentation Format: micro
Dataset Creation: Tue Dec 09 23:12:18 2014
Charted by: Depth in Feet scaled 1:240

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





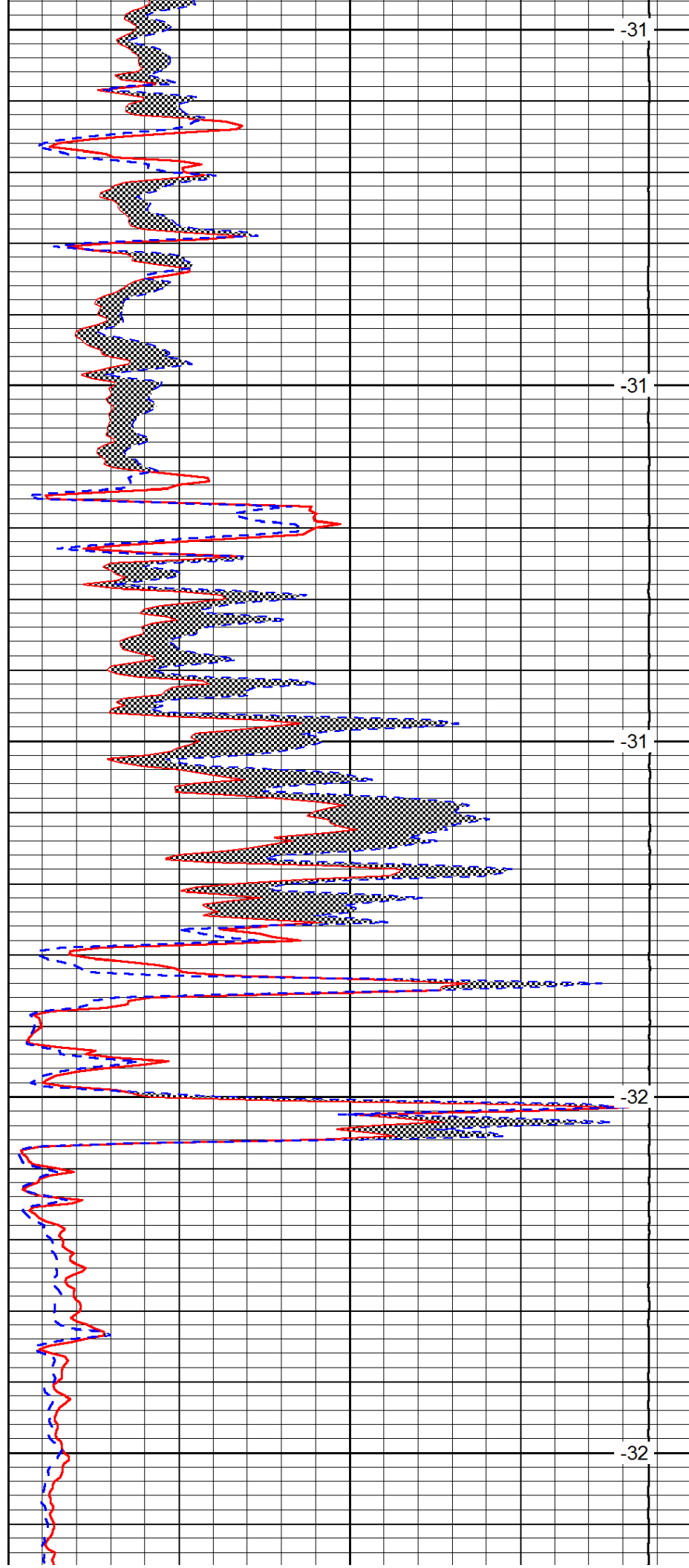
2700

2750

2800

2850

2900



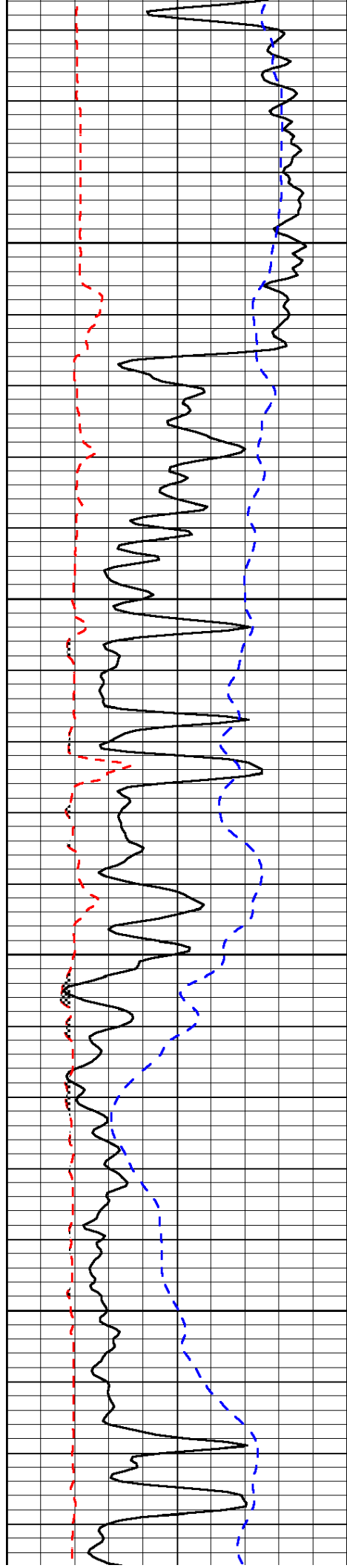
-31

-31

-31

-32

-32

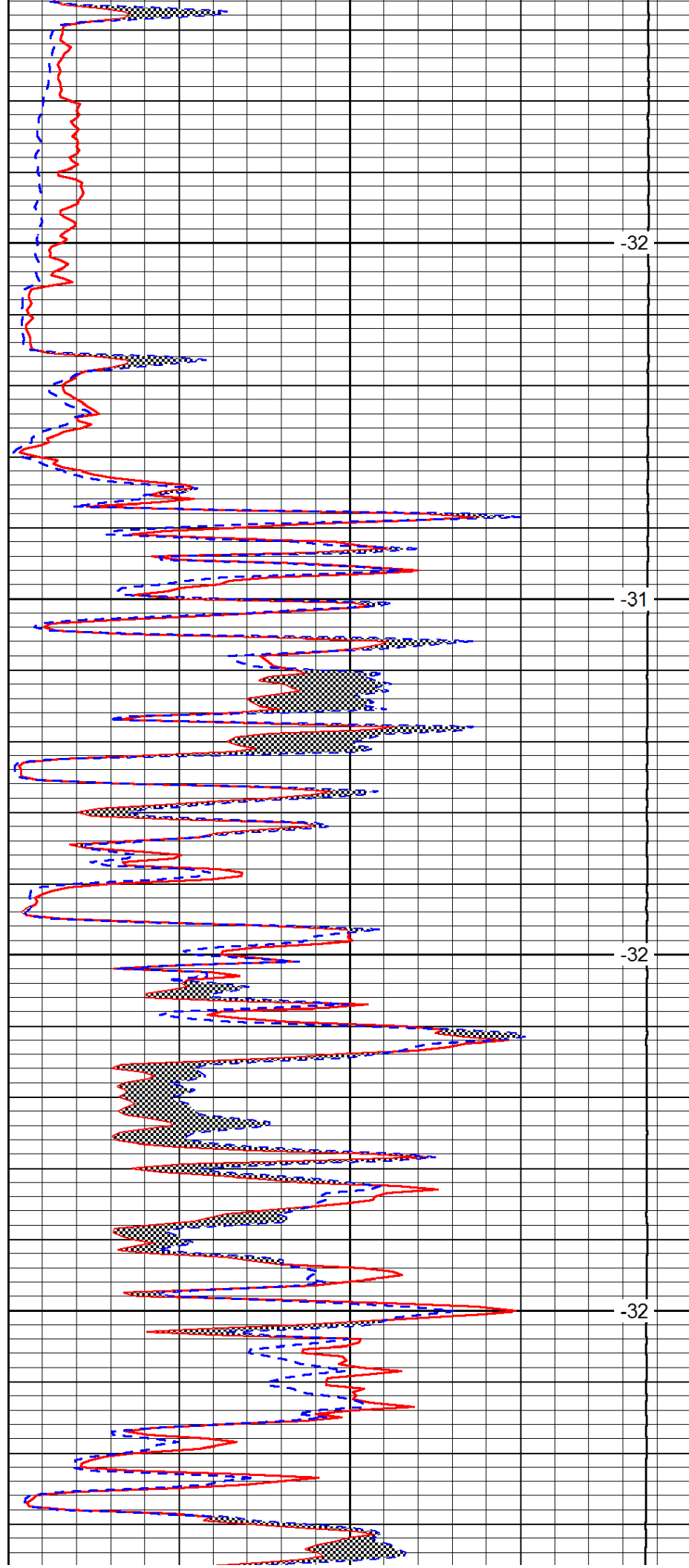


2950

3000

3050

3100

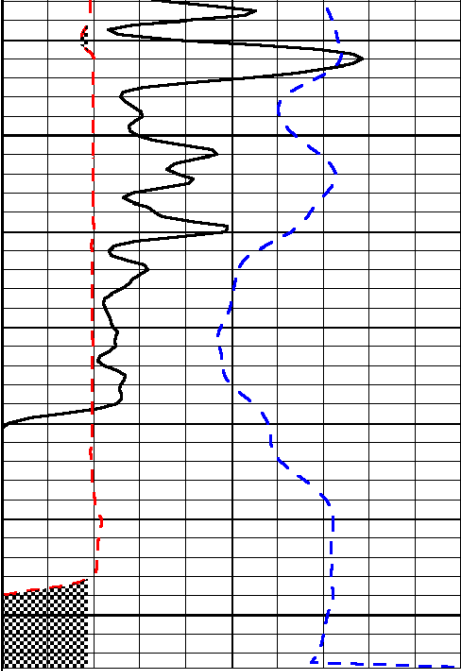


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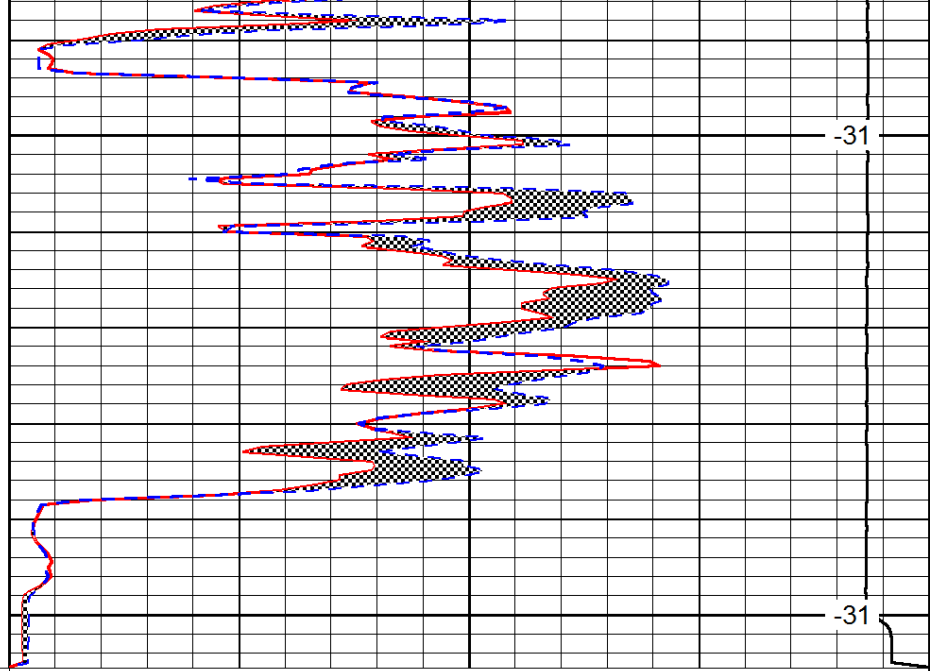
-32



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