



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26,474-00-00

Company Murfin Drilling Company, Inc.

Well Kraus-Stecklein Unit No. 1-28

Field Leonhardt

County

Ellis

State

Kansas

Location

2,475' FNL & 1,500' FWL

Other Services
CNL/CDL
DIL/BHCS

Sec: 28

Twp: 14S

Rge: 18W

Elevation

Permanent Datum Ground Level Elevation 2076
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

2/12/2013

Run Number

Two

Depth Driller

3790

Depth Logger

3788

Bottom Logged Interval

3787

Top Log Interval

2950

Casing Driller

8.625 @ 217

Casing Logger

217

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

12800

Density / Viscosity

9.3 69

pH / Fluid Loss

10.5 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

.22 @ 62

Rmf @ Meas. Temp

.17 @ 62

Rmc @ Meas. Temp

.30 @ 62

Source of Rmf / Rmc

Charts

Rm @ BHT

.12 @ 114

Operating Rig Time

4 Hours

Max Rec. Temp. F

114

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Paul Gunzelman

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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

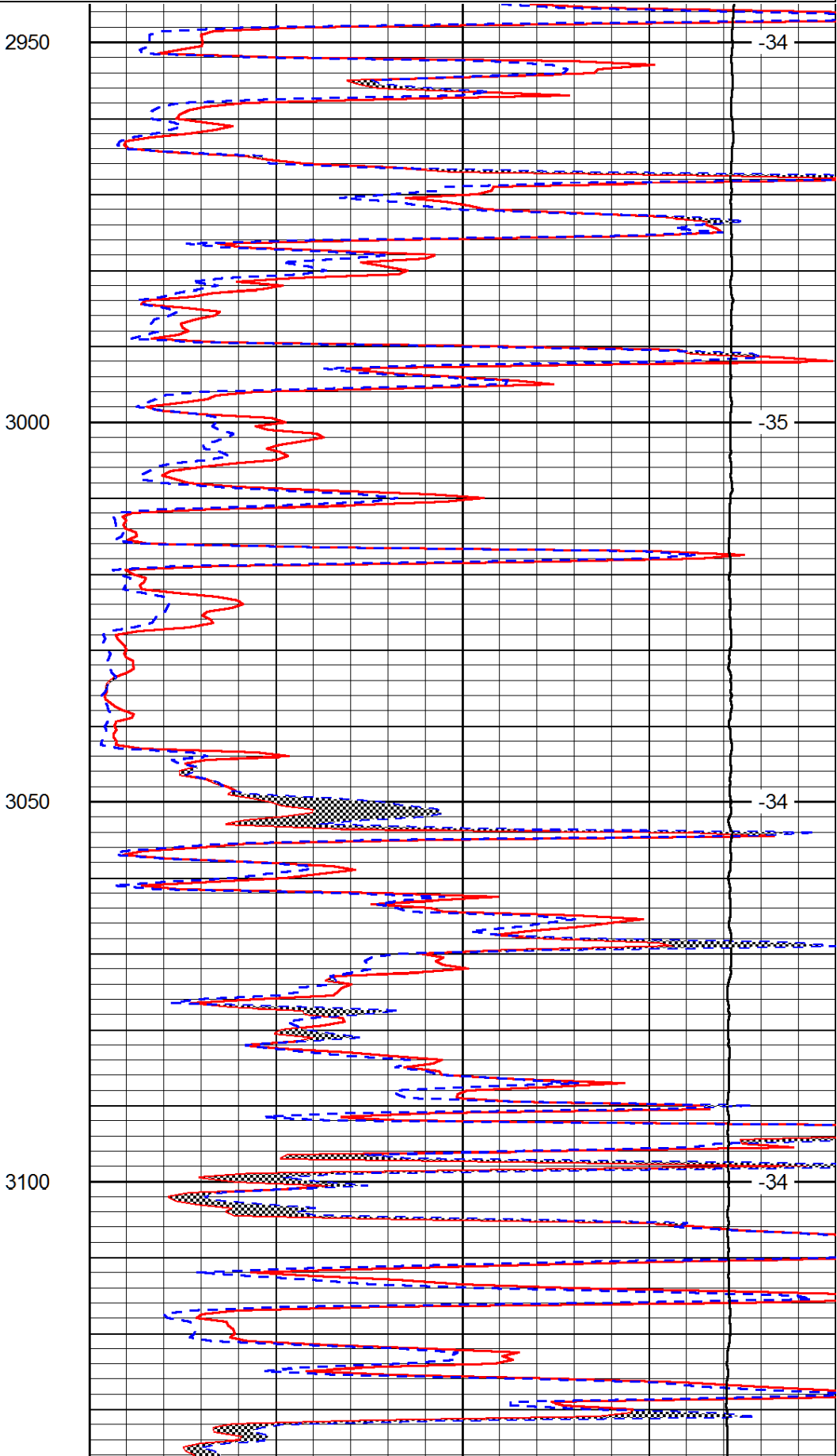
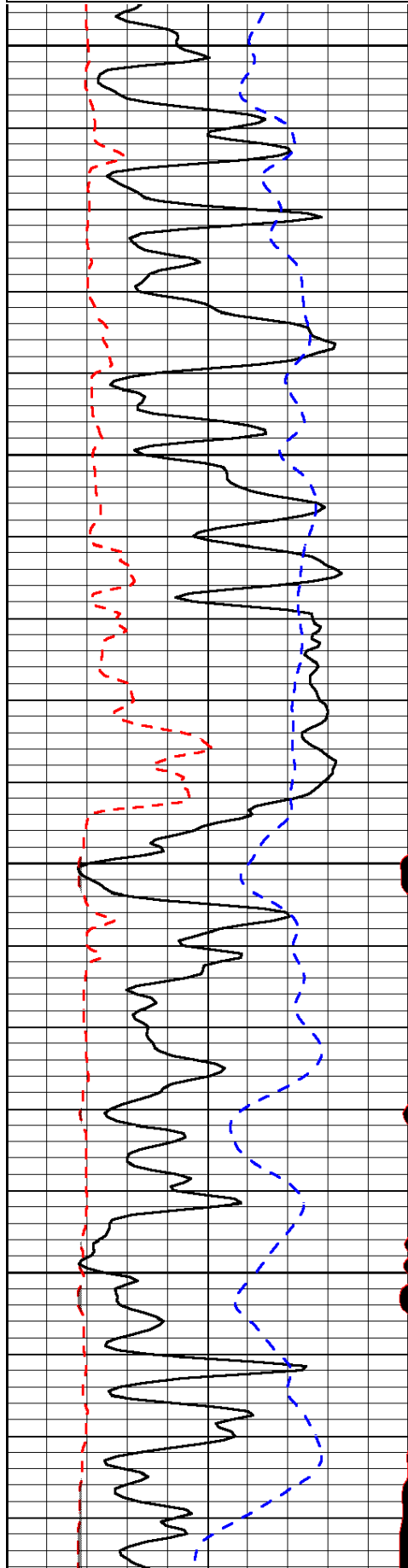
Thank you for using Log-Tech, Inc.
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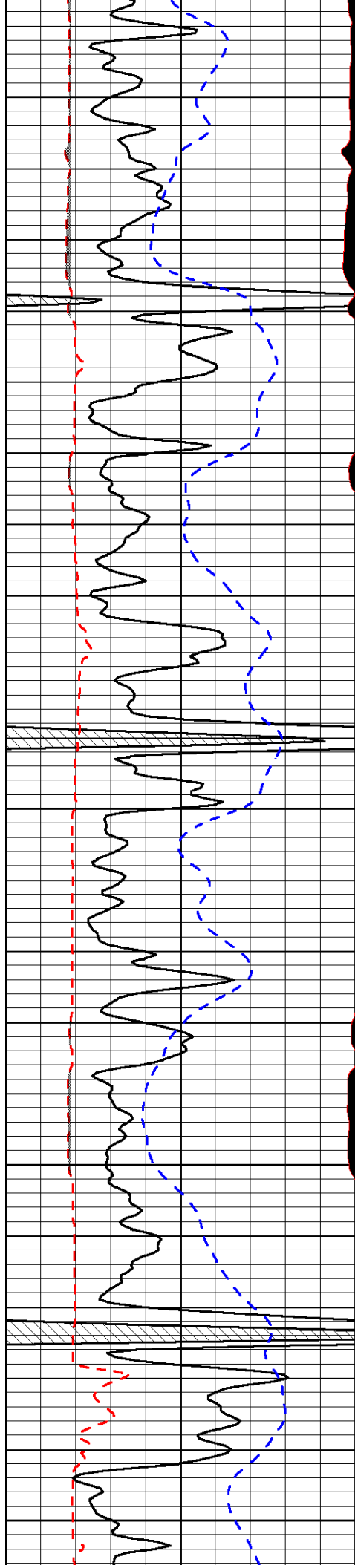
Hays, 3 1/2 South on 240th Avenue, East Into

Database File: murfin_kraus-stecklein_1-28hd.db
Dataset Pathname: dil/murfstck
Presentation Format: micro
Dataset Creation: Tue Feb 12 05:33:24 2013
Charted by: Depth in Feet scaled 1:240

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

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





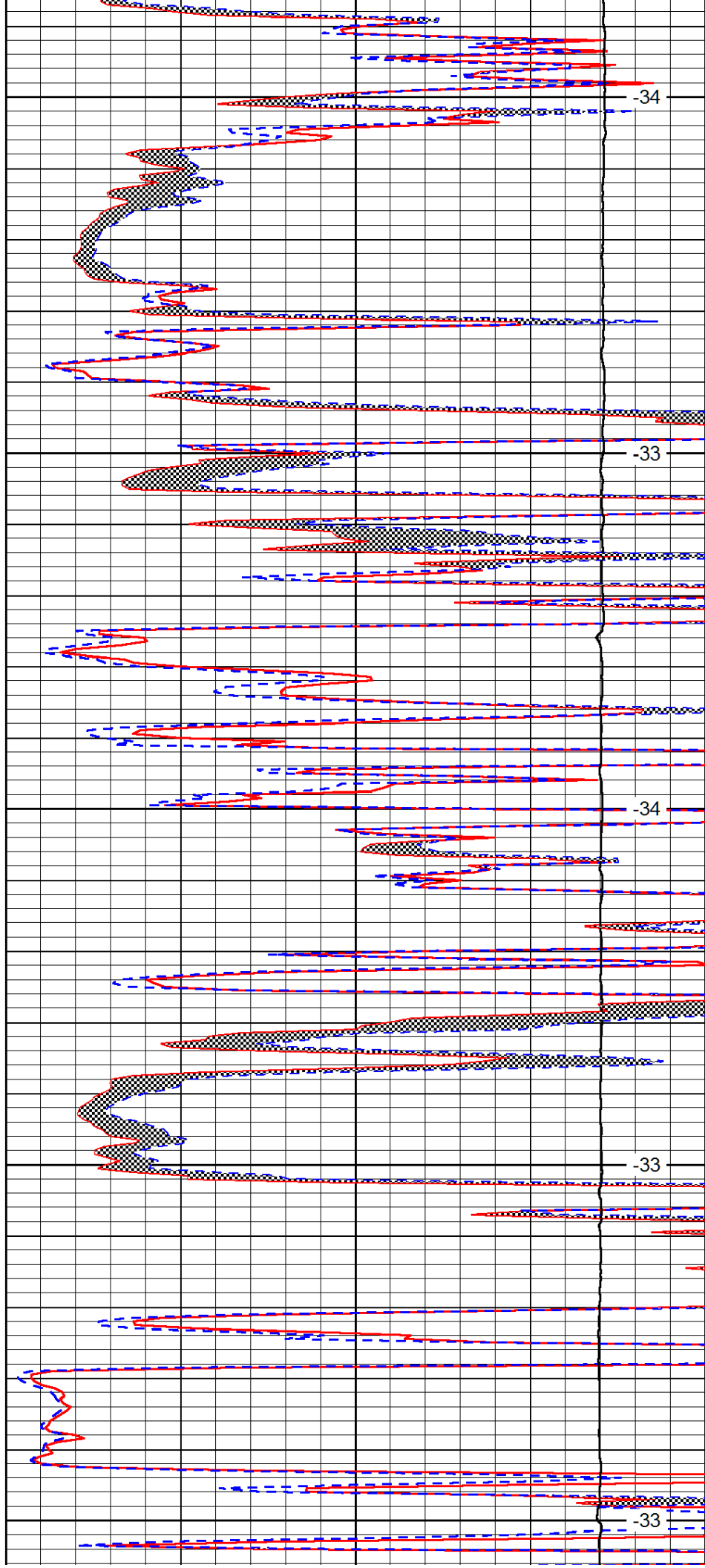
3150

3200

3250

3300

3350



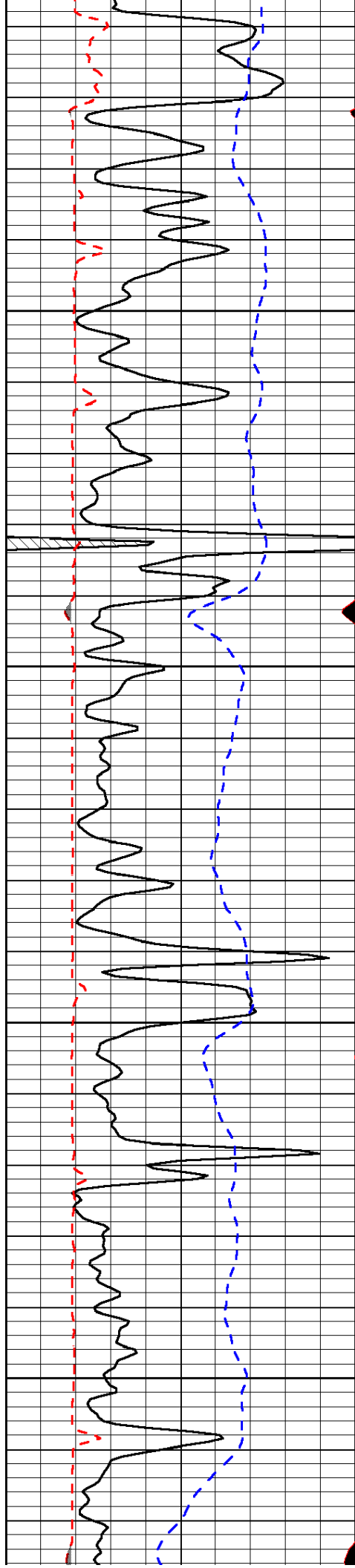
-34

-33

-34

-33

-33

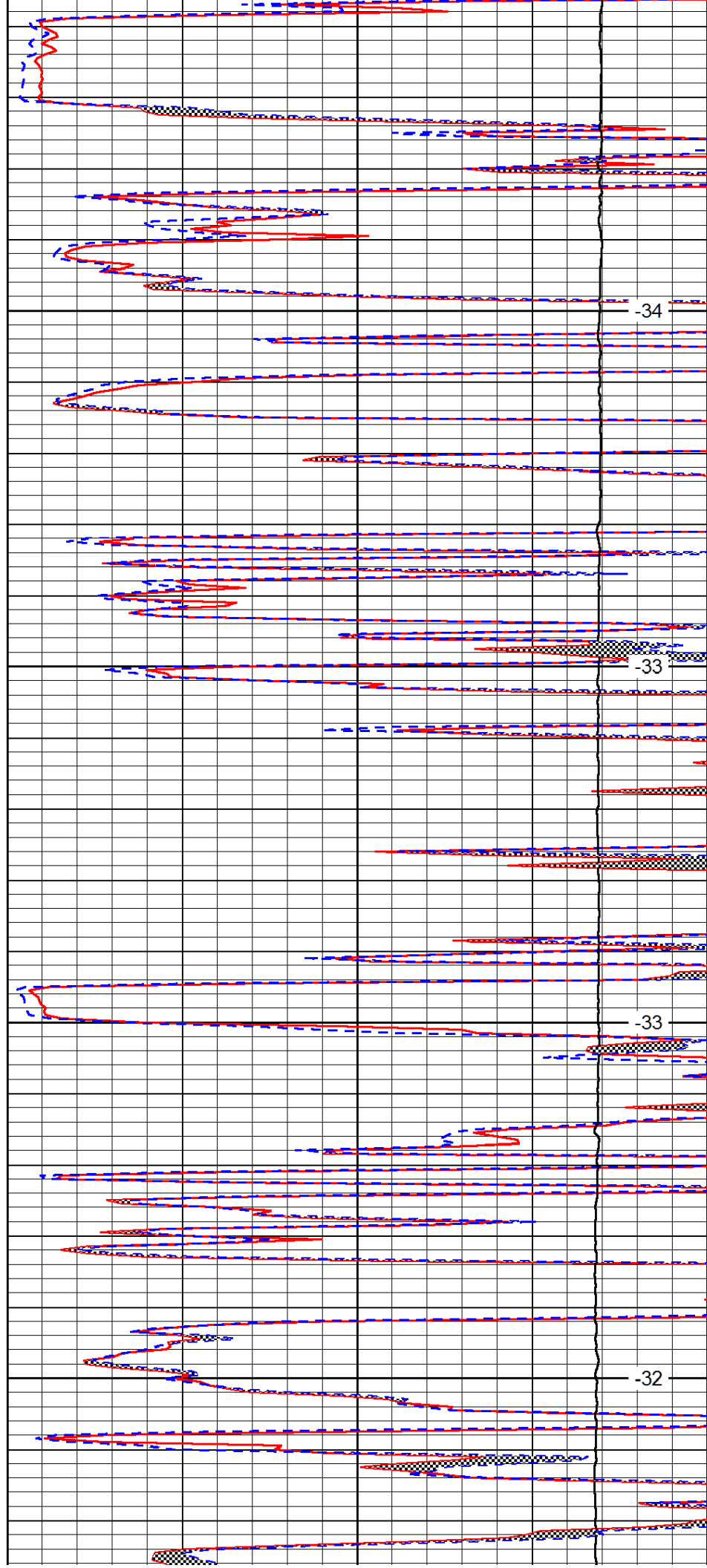


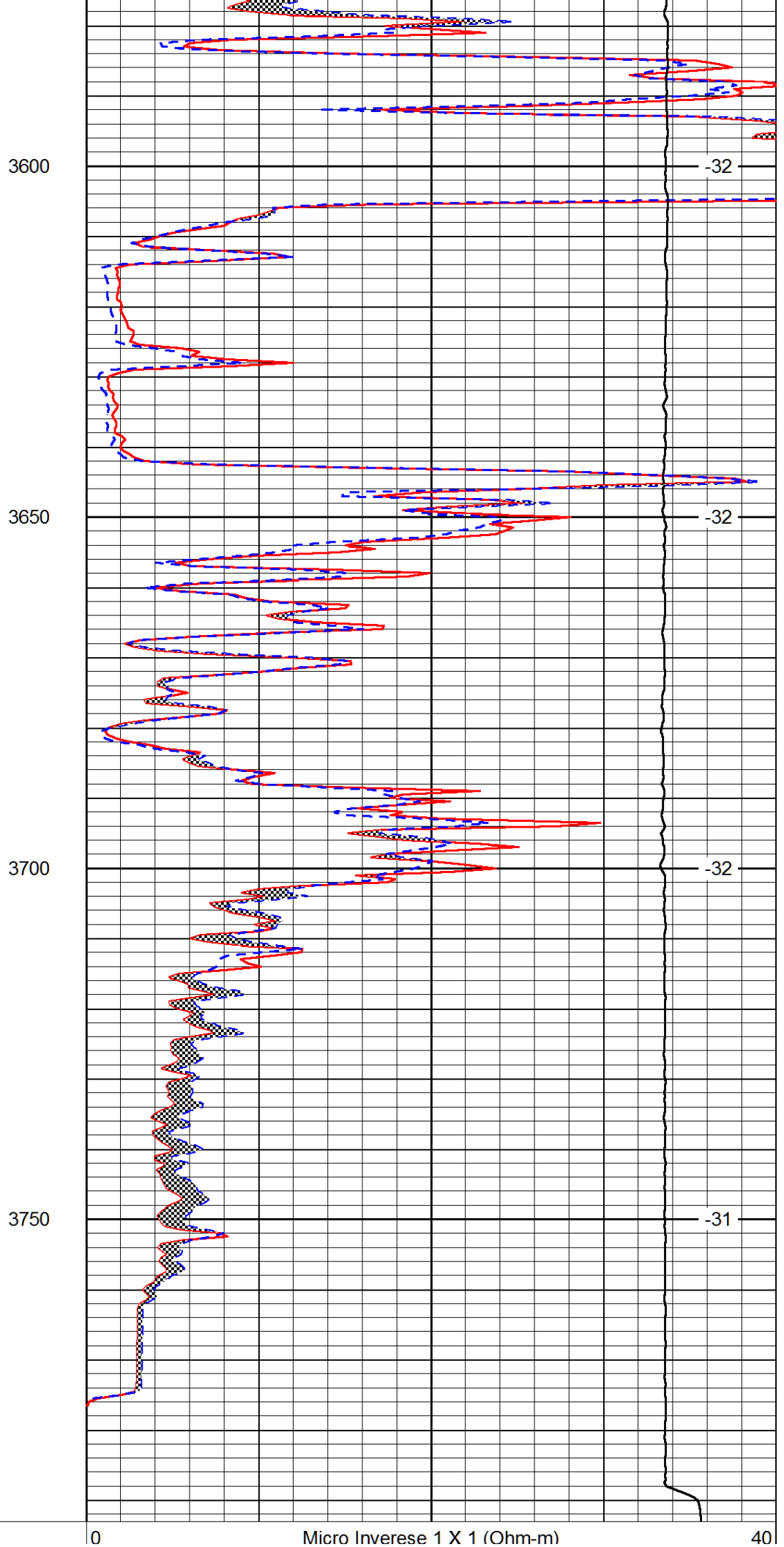
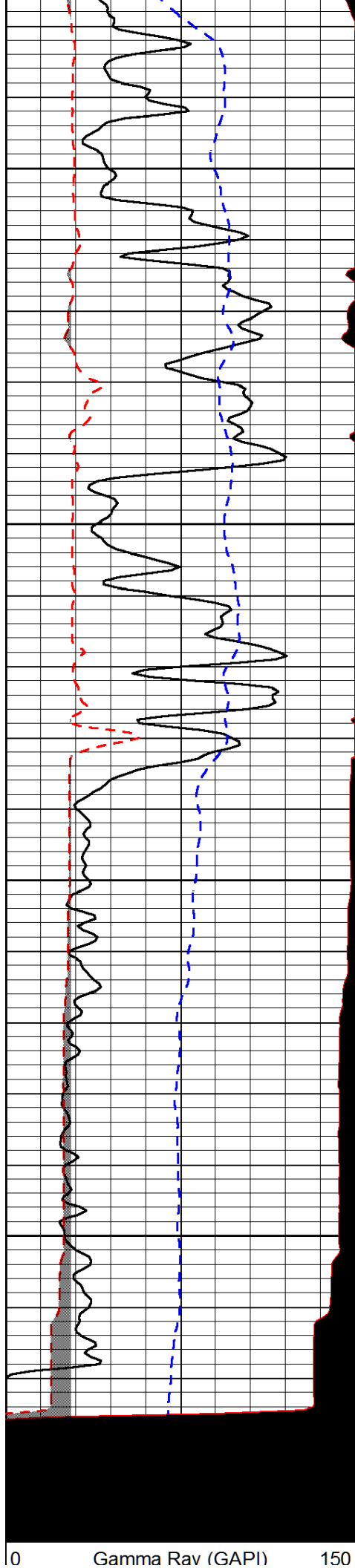
3400

3450

3500

3550





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