



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26,602-00-00

Company TDI, Inc.

Well Henry No.1

Field Ellis Southeast

County Ellis State

Kansas

Location 1325' FSL & 2000' FWL

Sec: 5 Twp: 13S Rge: 20W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 2133
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 10/22/2013

Run Number Two

Depth Driller 3931

Depth Logger 3931

Bottom Logged Interval 3930

Top Log Interval 3100

Casing Driller 8.625 @ 222

Casing Logger 222

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 2,000

Density / Viscosity 9.1 54

pH / Fluid Loss 10.5 6.8

Source of Sample Flowline

Rm @ Meas. Temp .75 @ 62

Rmf @ Meas. Temp .56 @ 62

Rmc @ Meas. Temp 1.01 @ 62

Source of Rmf / Rmc Charts

Rm @ BHT .4 @ 115

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 115

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Tom Denning

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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.

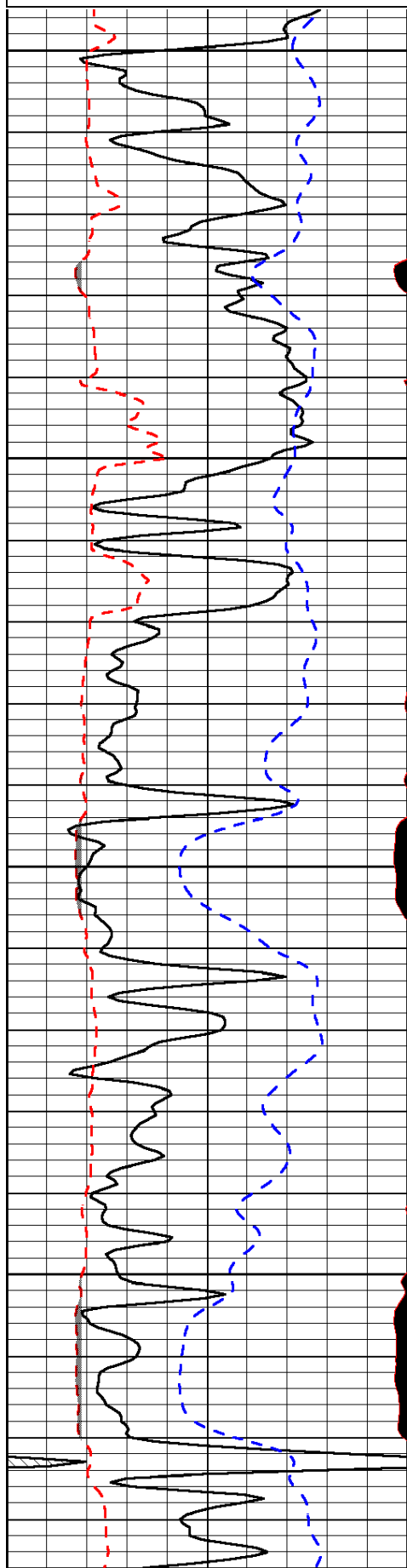
Comments

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

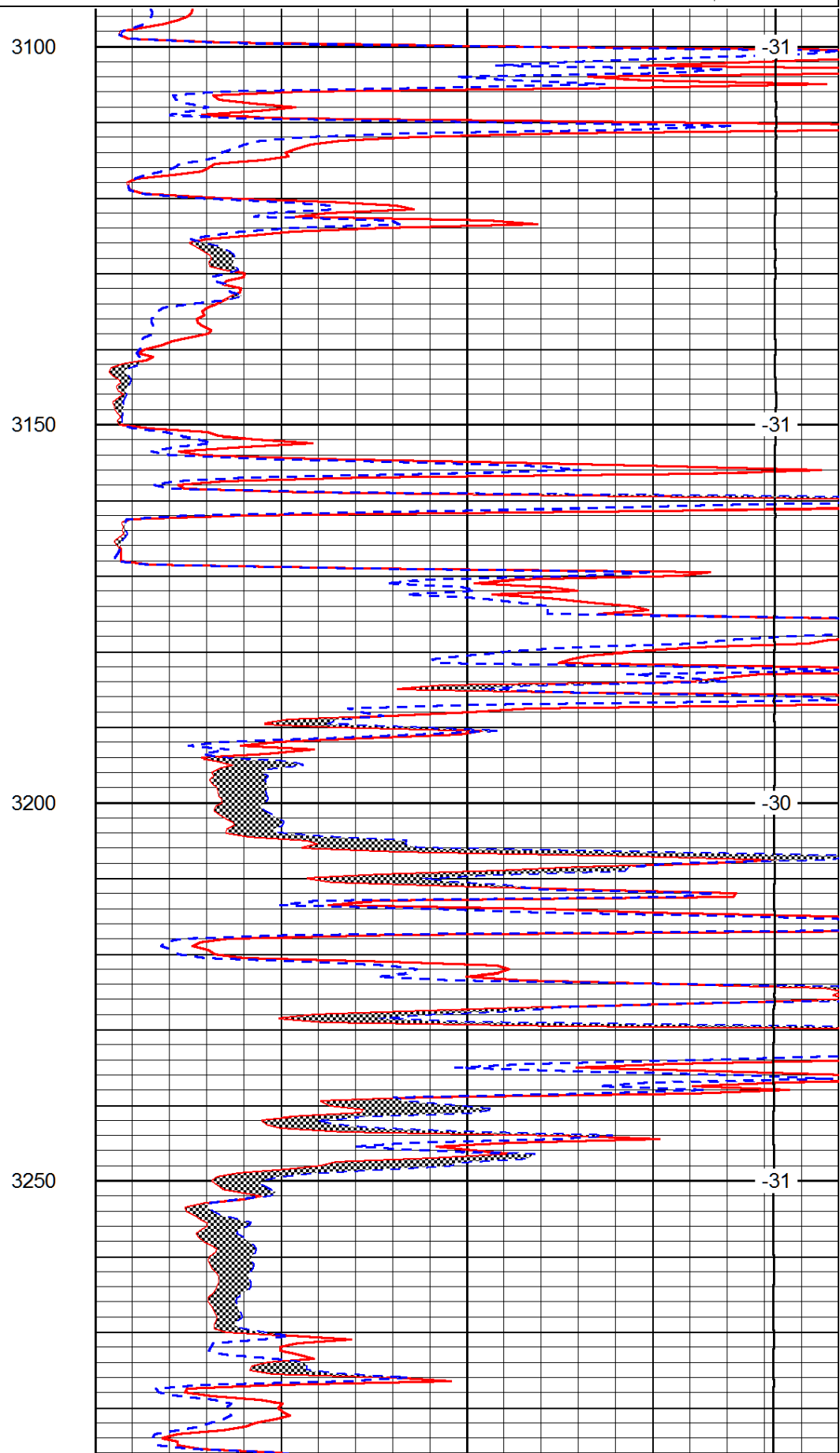
Ellis KS, 3 blks W on 3rd St, W Into

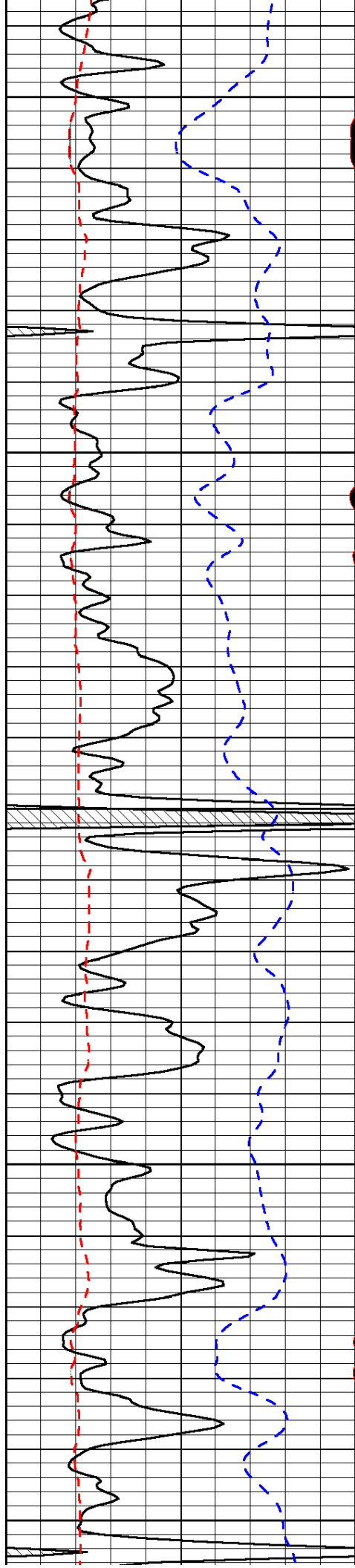
Database File: tdihd.db
Dataset Pathname: dil/tdistk
Presentation Format: micro
Dataset Creation: Tue Oct 22 22:10:34 2013
Charted by: Depth in Feet scaled 1:240

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)





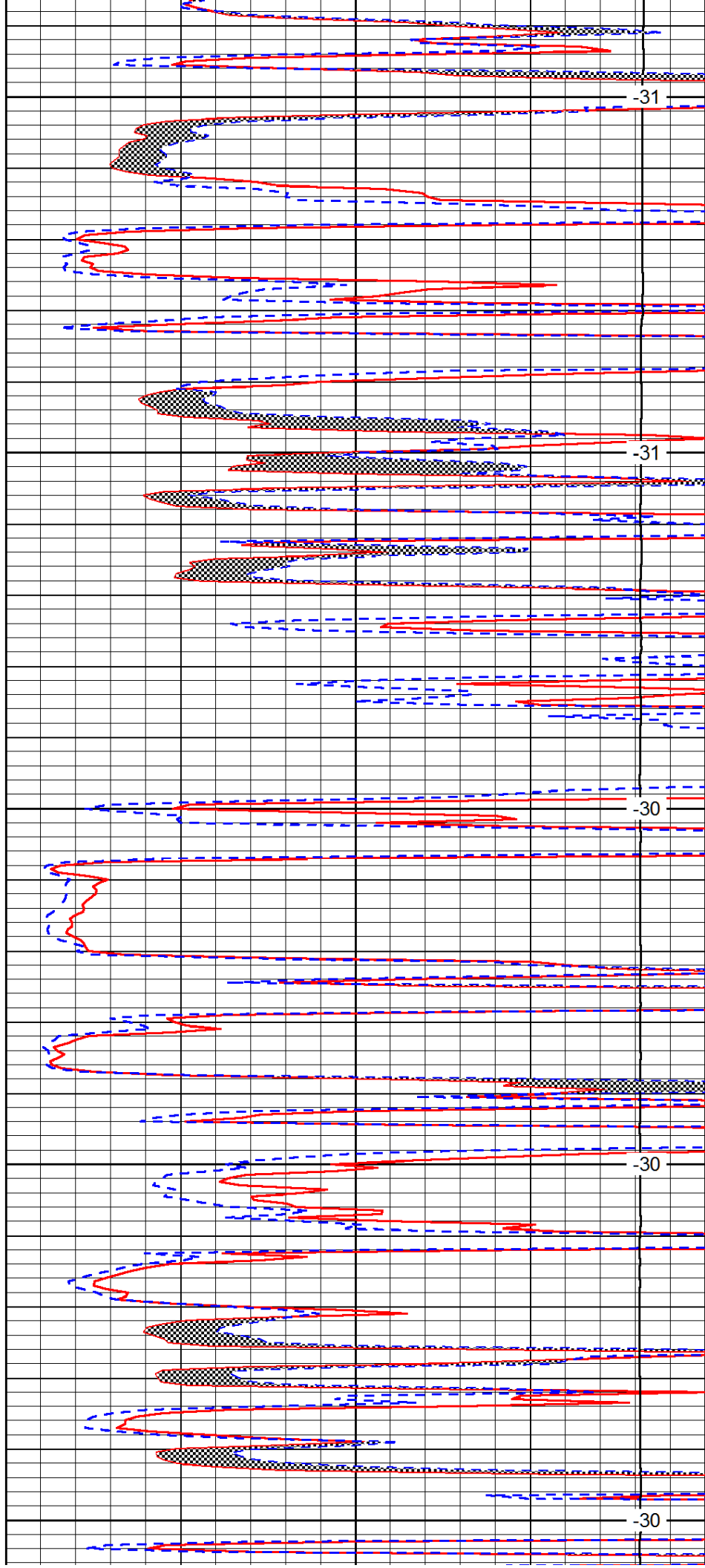
3300

3350

3400

3450

3500



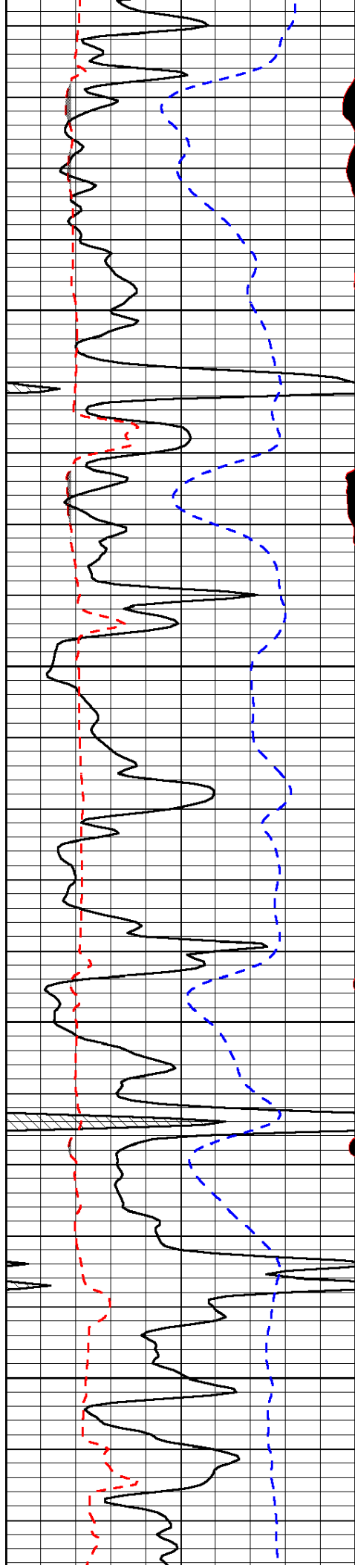
-31

-31

-30

-30

-30

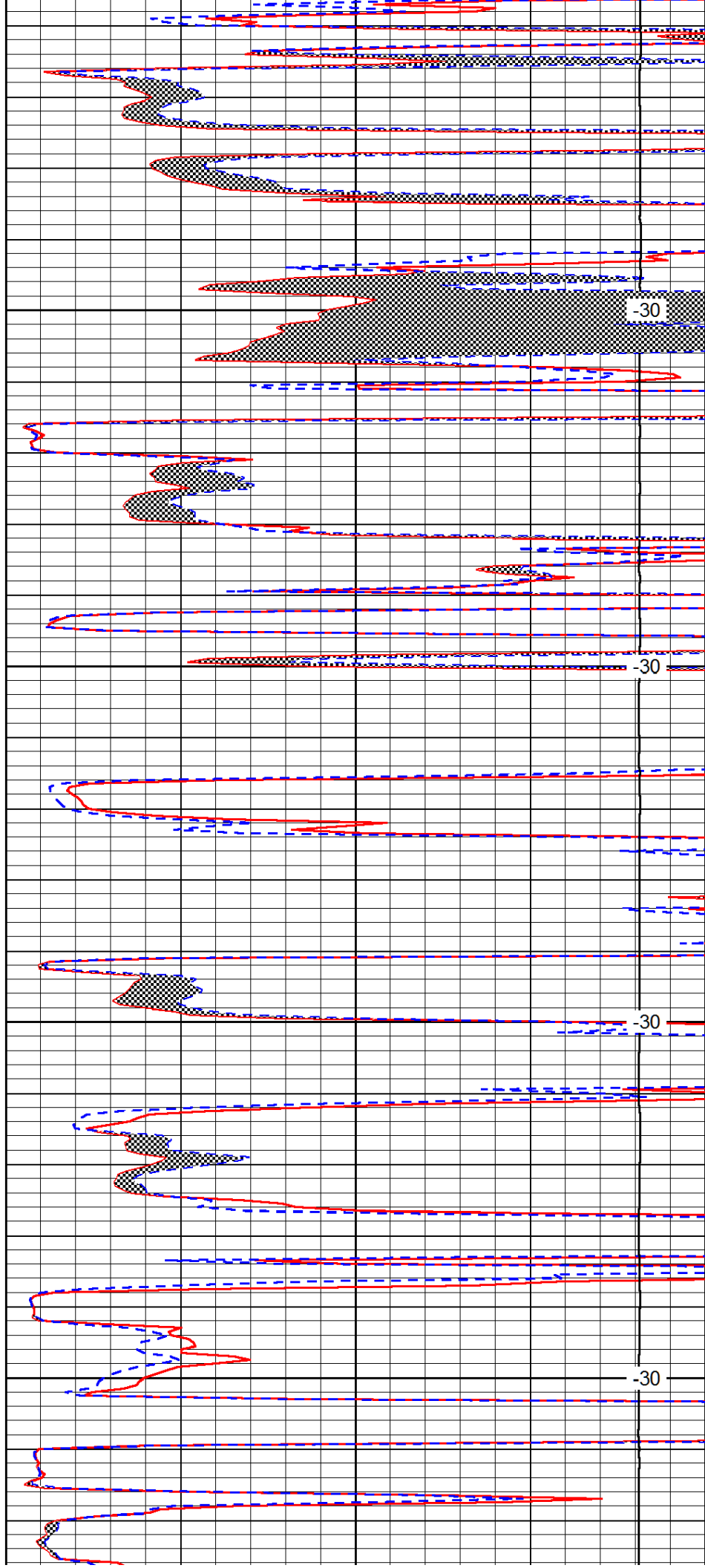


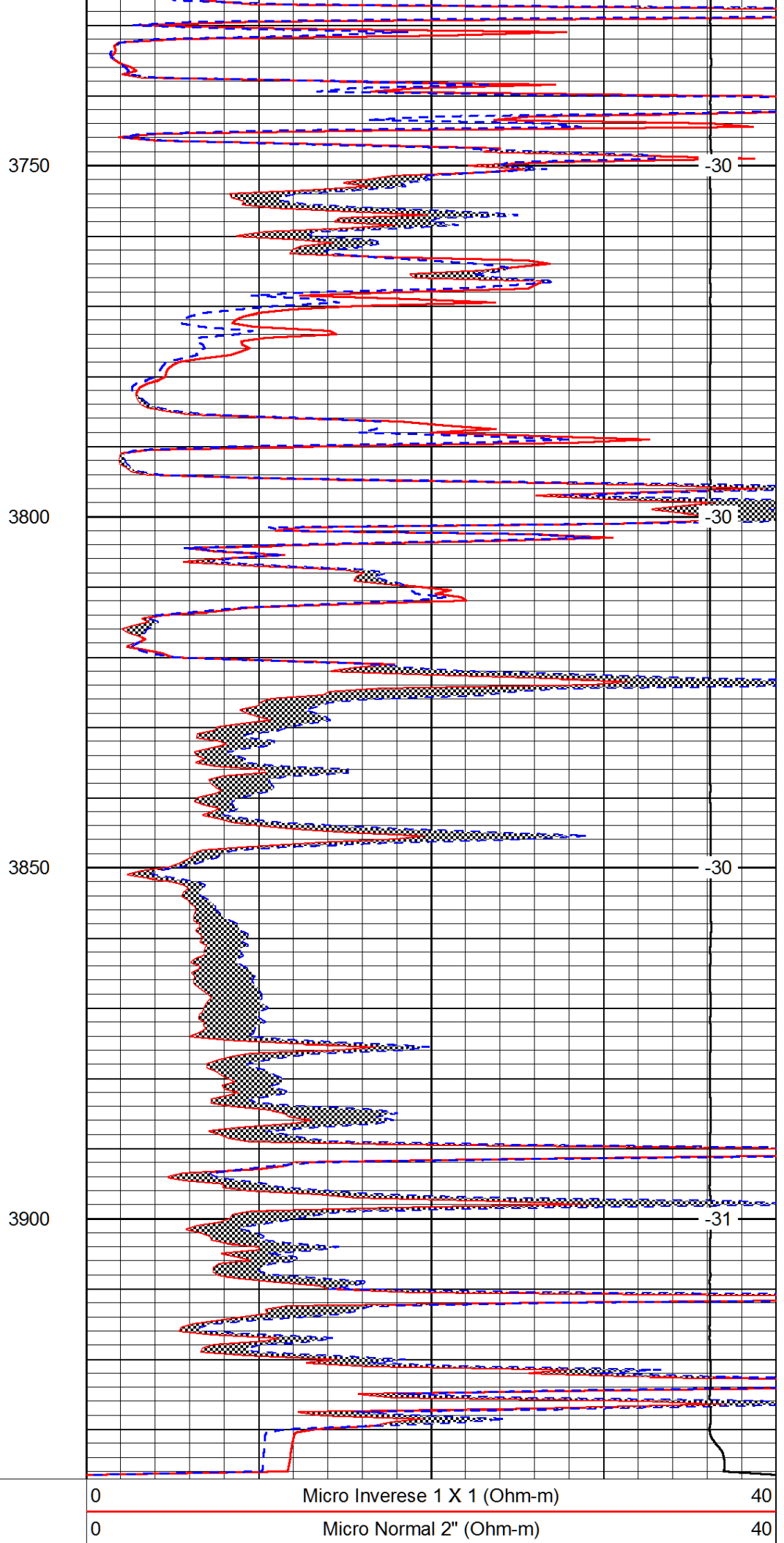
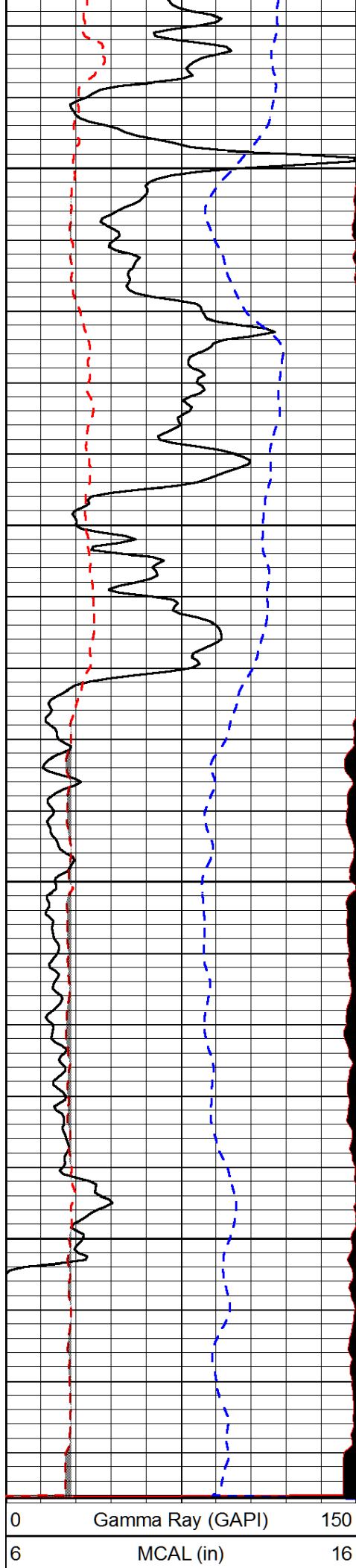
3550

3600

3650

3700





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