



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26504-00-00

Company TDI, Inc.

Well GR #2

Field Martina North

County Ellis State

Kansas

Location 1565' FNL & 330' FWL

Other Services
CNL/CDL
DIL

Sec: 14 Twp: 15 S Rge: 19 W

Permanent Datum Ground Level Elevation 2009
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2019
D.F.
G.L. 2009

Date 04-26-2013

Run Number Two

Depth Driller 3750

Depth Logger 3751

Bottom Logged Interval 3750

Top Log Interval 2900

Casing Driller 8.625 @ 1227

Casing Logger 1227

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4500

Density / Viscosity 9.1 52

pH / Fluid Loss 10.5 7.2

Source of Sample Flowline

Rm @ Meas. Temp 0.54 @ 64

Rmf @ Meas. Temp 0.40 @ 64

Rmc @ Meas. Temp 0.72 @ 64

Source of Rmf / Rmc Charts

Rm @ BHT 0.30 @ 116

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 116

Equipment Number 91

Location Hays

Recorded By Y. Ruiz

Witnessed By Tom Denning

D. Schmidt

Herb Deines

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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.

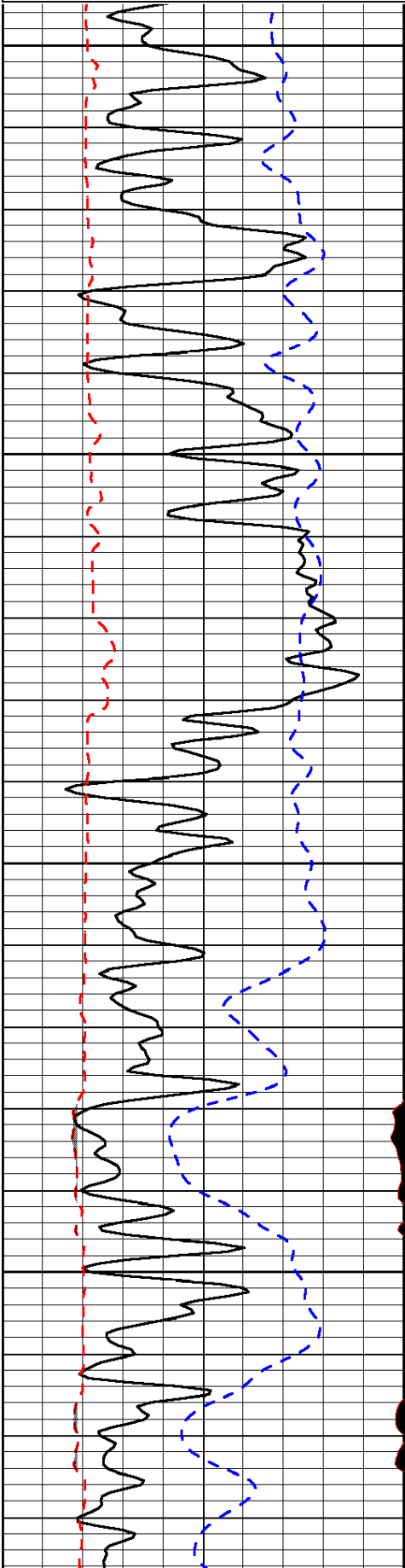
Comments

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

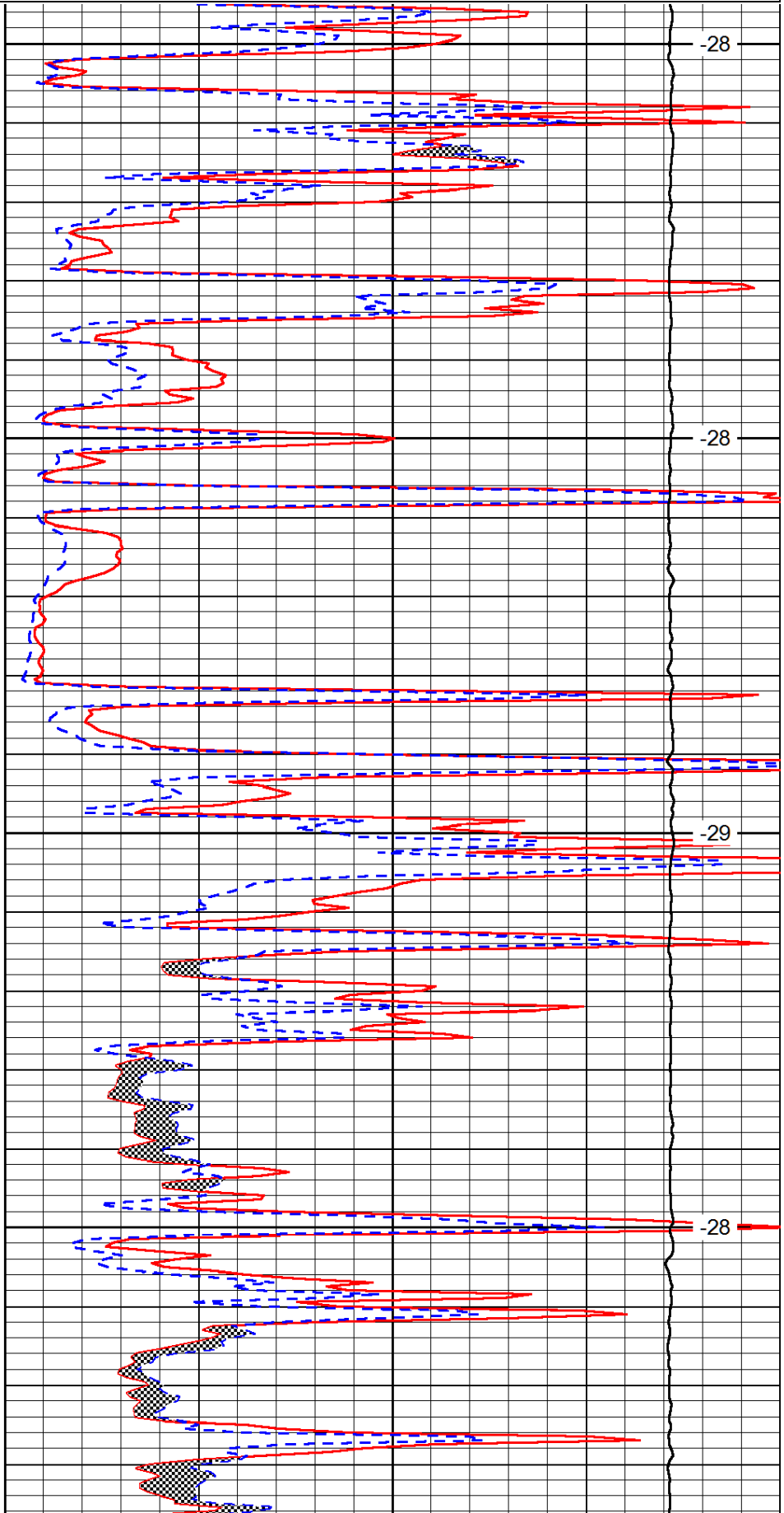
Antonino,
1 West, 2 South,
East and South at the TB

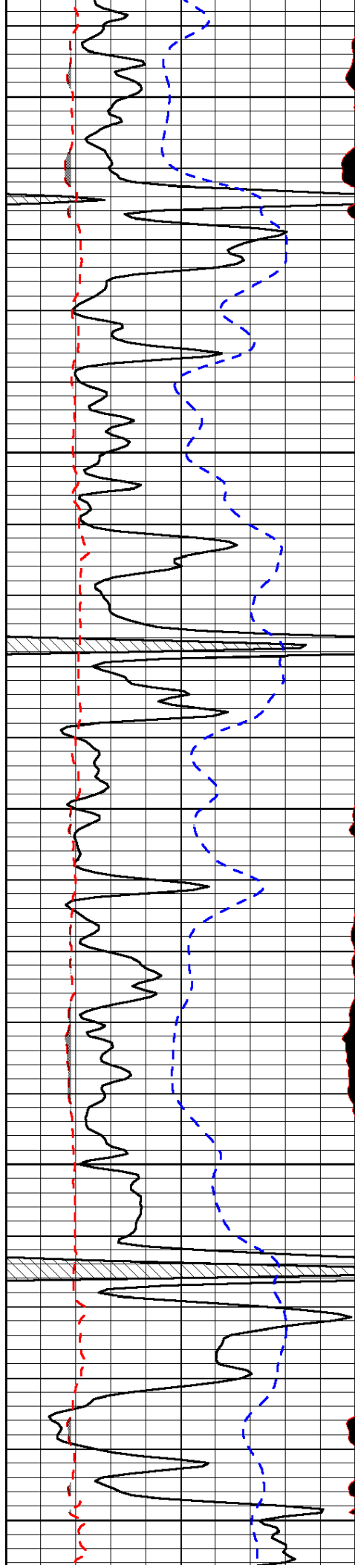
Charted by: Depth in Feet scaled 1:2.10

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)





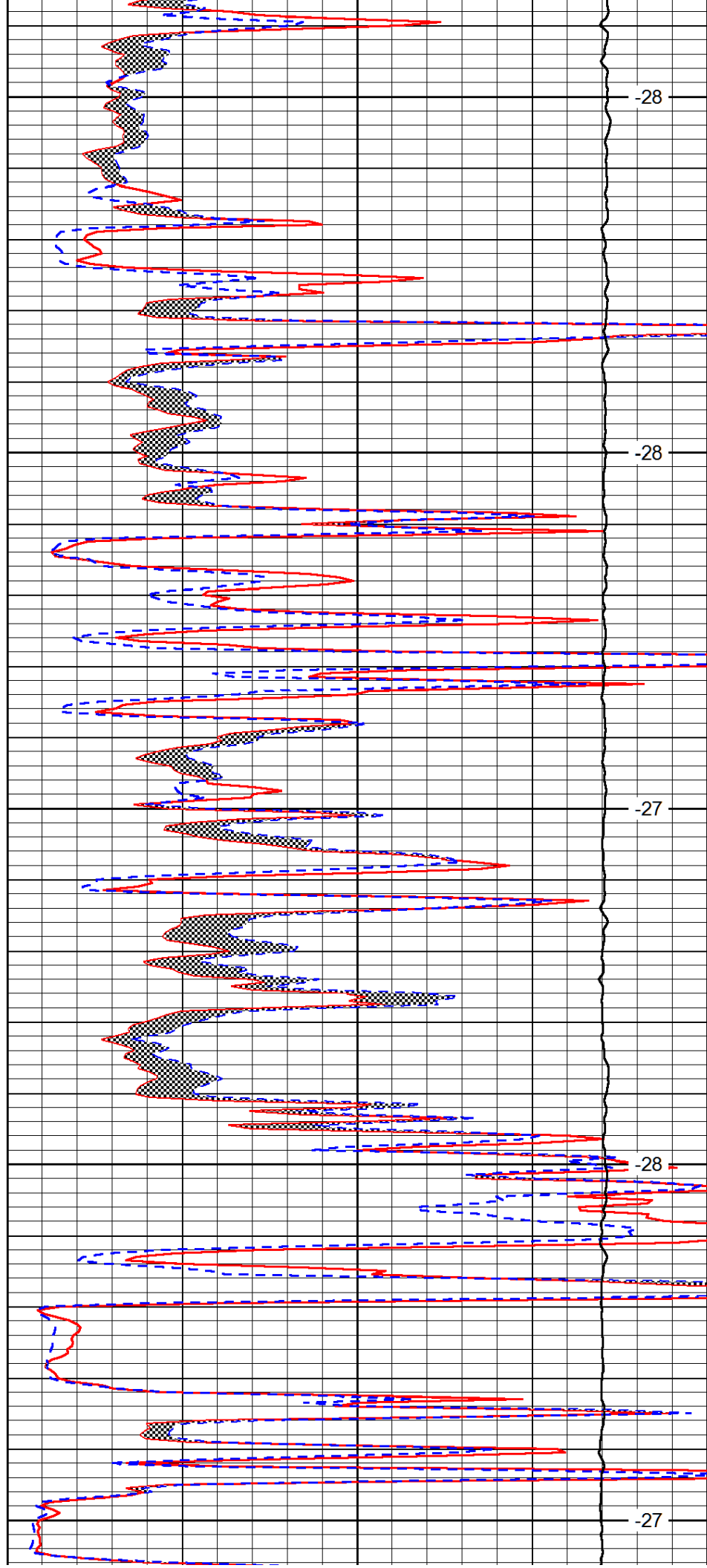
3100

3150

3200

3250

3300



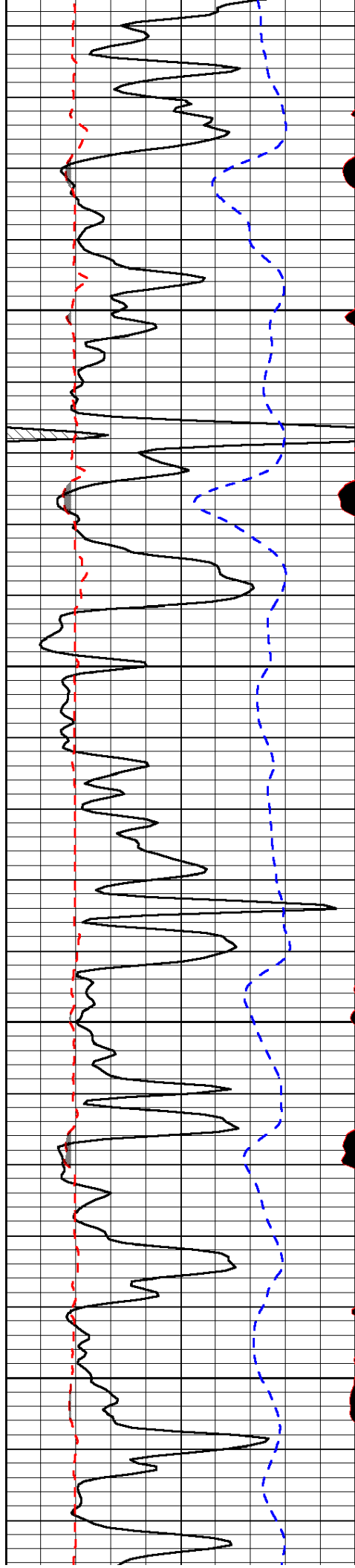
-28

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-27

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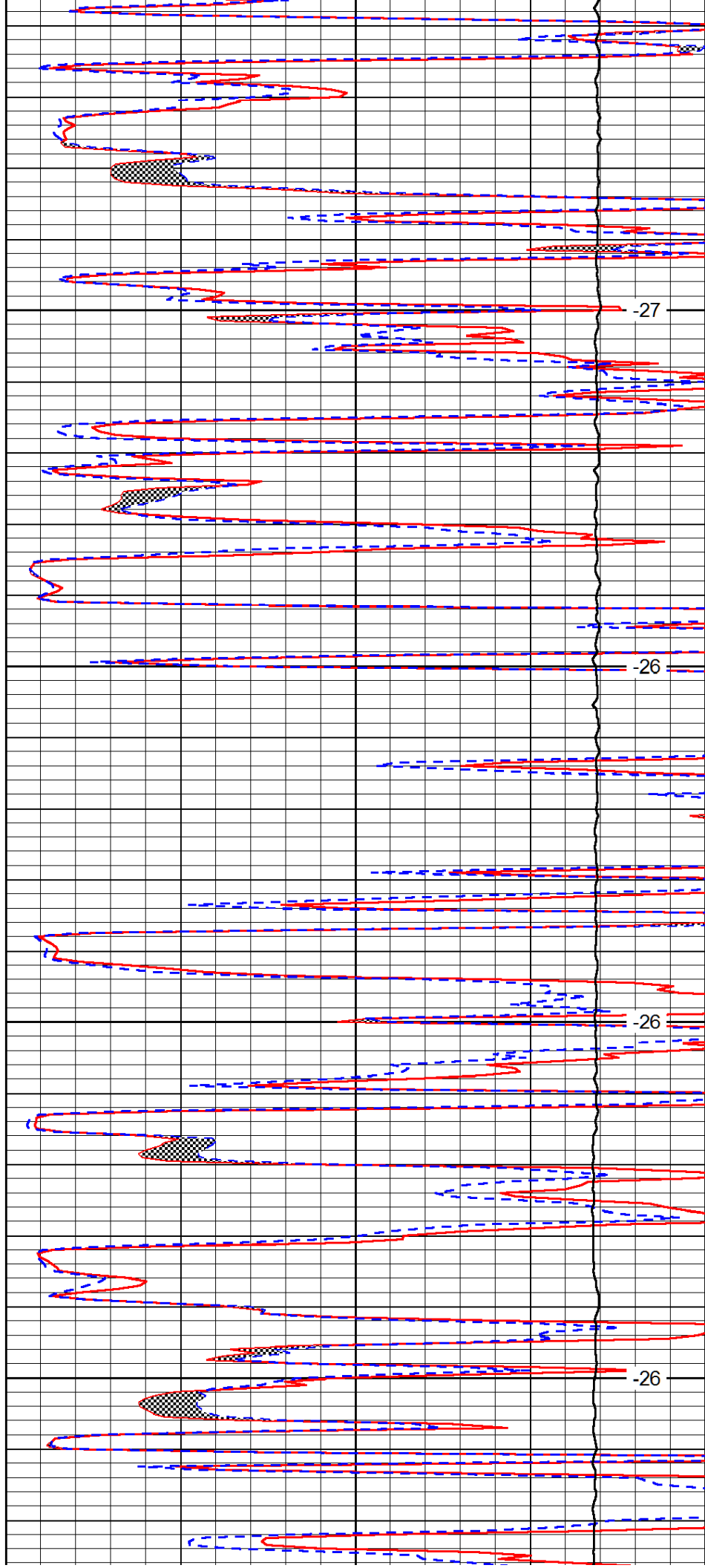


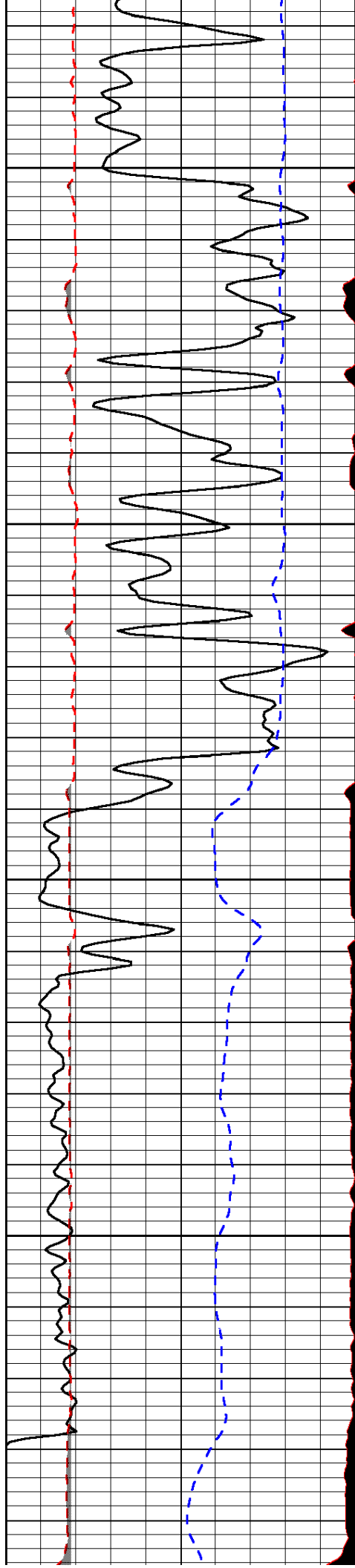
3350

3400

3450

3500



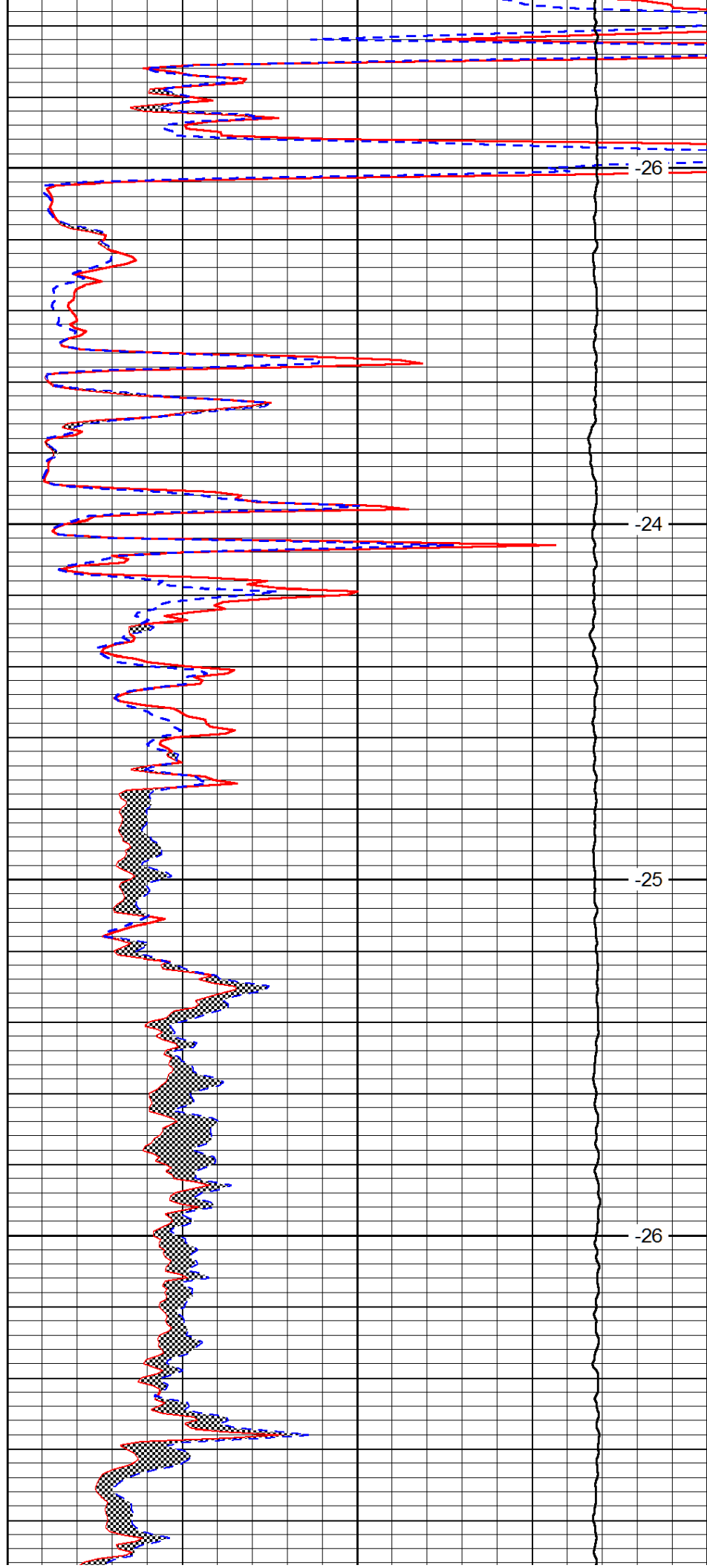


3550

3600

3650

3700

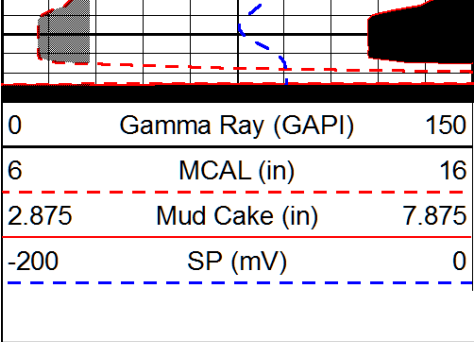


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3750

