



Microresistivity Log

Pioneer Energy Services

API No.

15-051-26472-00-00

Company Murfin Drilling Company, Inc

Well Emmerentia #1-23

Field Martina

County Ellis State Kansas

Location 2310' FSL & 800' FWL

Sec: 23 Twp: 15 S Rge: 19 W

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum Ground Level Elevation 1976

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 1981
D.F. 1976
G.L. 1976

Date 02-25-2013

Run Number Two

Depth Driller 3700

Depth Logger 3698

Bottom Logged Interval 3697

Top Log Interval 2850

Casing Driller 8.625 @ 1176

Casing Logger 1174

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 8900

Density / Viscosity 9.3 43

pH / Fluid Loss 10.0 8.4

Source of Sample Flowline

Rm @ Meas. Temp 0.40 @ 40

Rmf @ Meas. Temp 0.30 @ 40

Rmc @ Meas. Temp 0.54 @ 40

Source of Rmf / Rmc Charts

Rm @ BHT 0.14 @ 115

Operating Rig Time 5 Hours

Max Rec. Temp. F 115

Equipment Number 91

Location Hays

Recorded By D. Schmidt

Witnessed By Rocky Milford

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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 to 200 Rd, 3 1/2 South,
East Into

Database File: murfin_022513hd.db

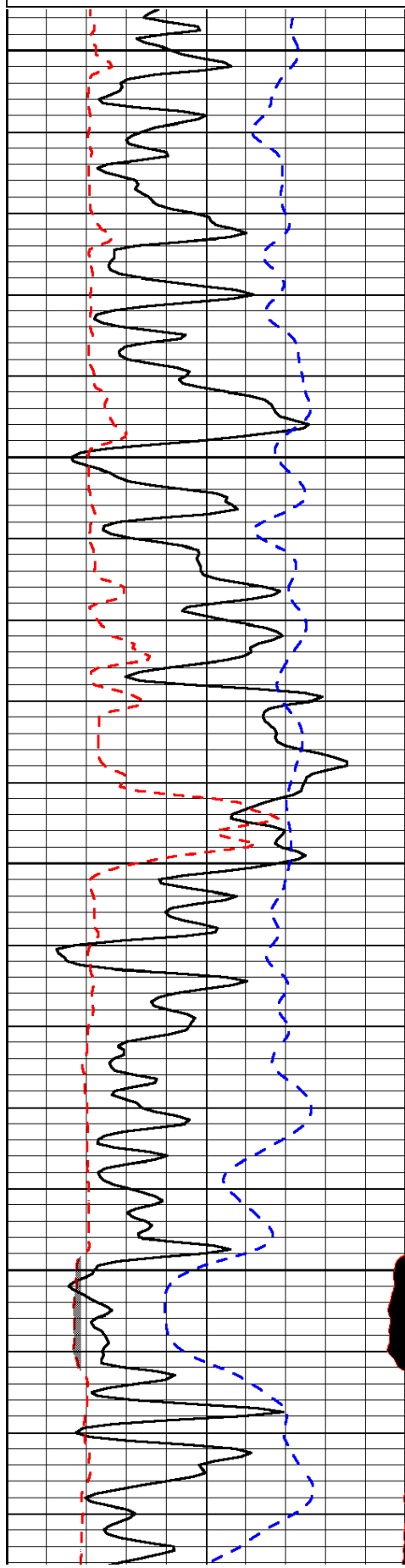
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Presentation Format: micro

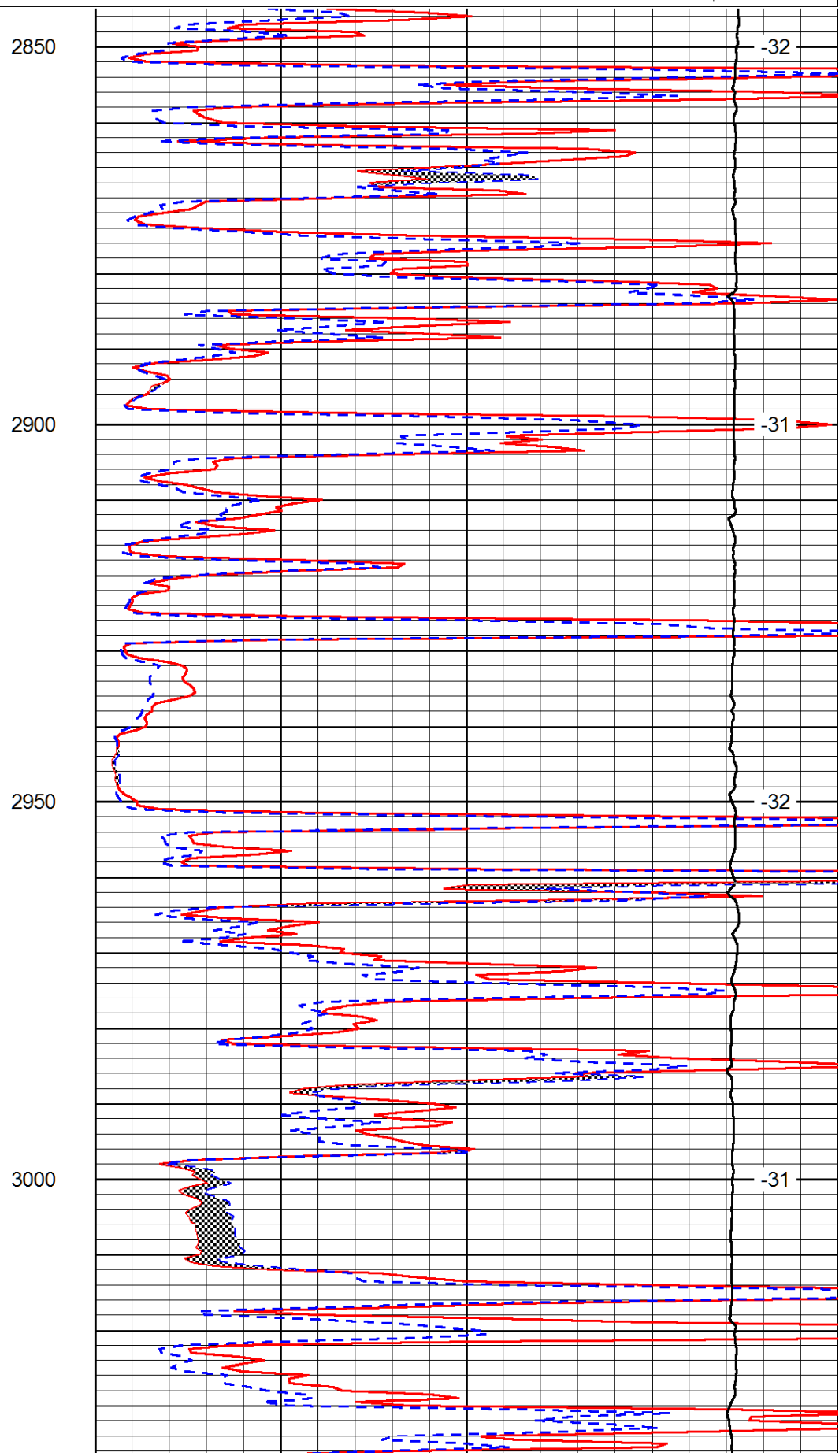
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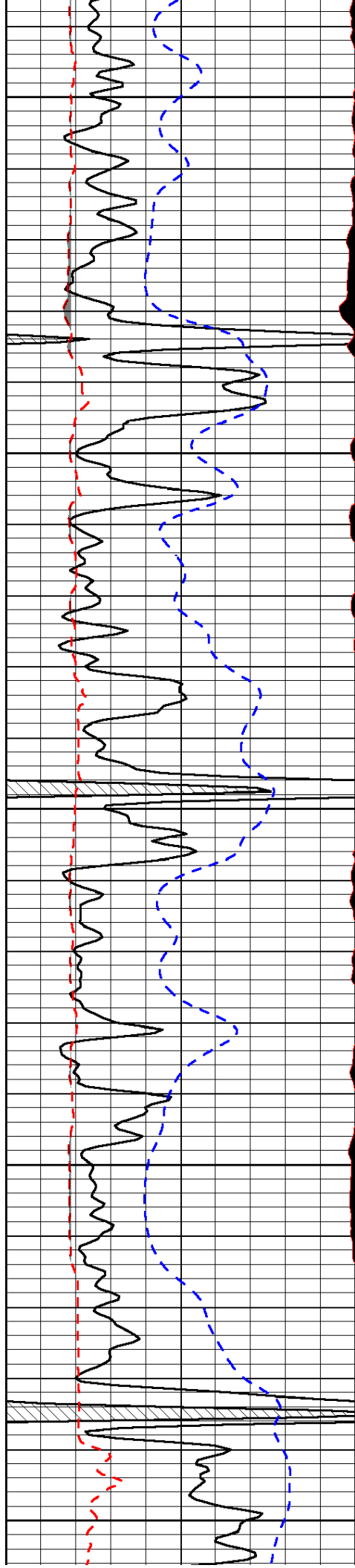
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:210		
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)





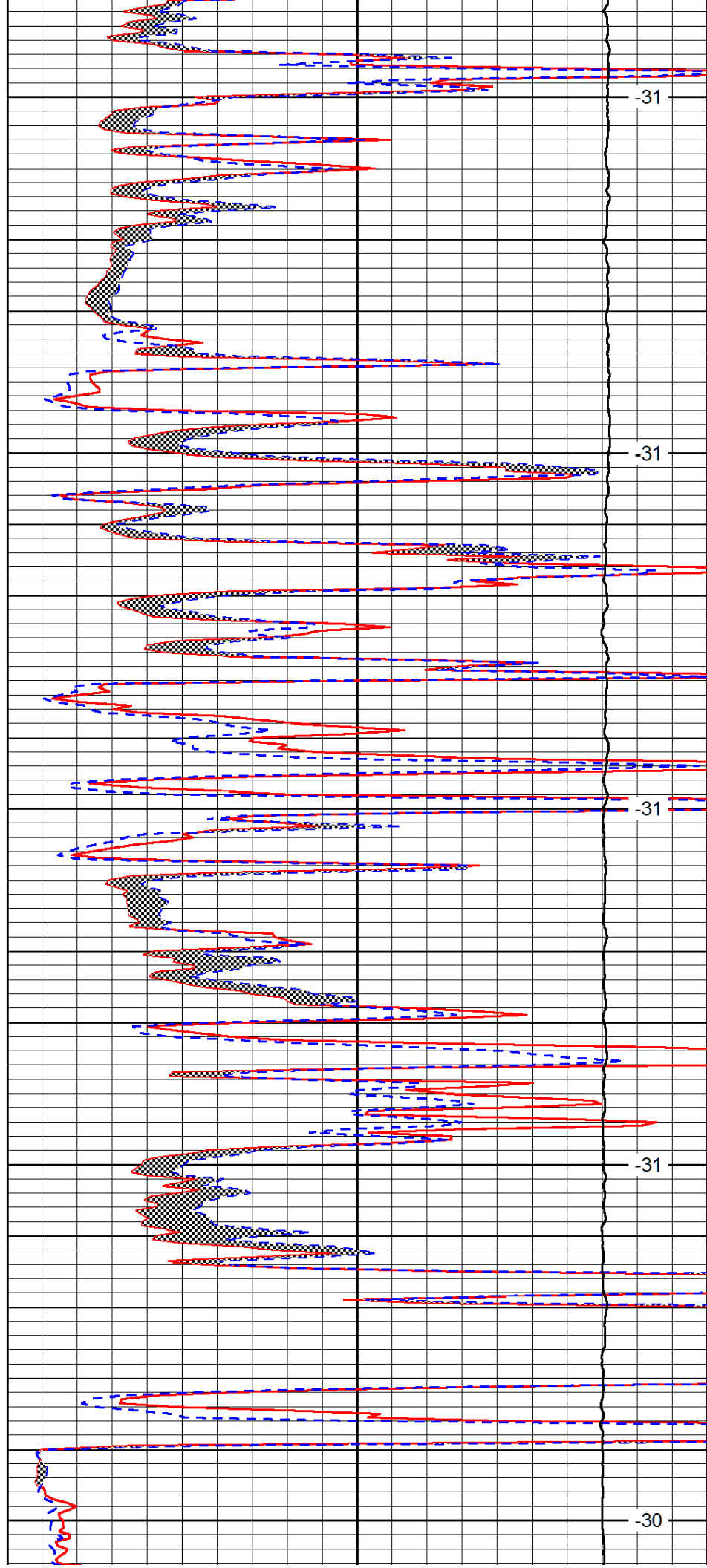
3050

3100

3150

3200

3250



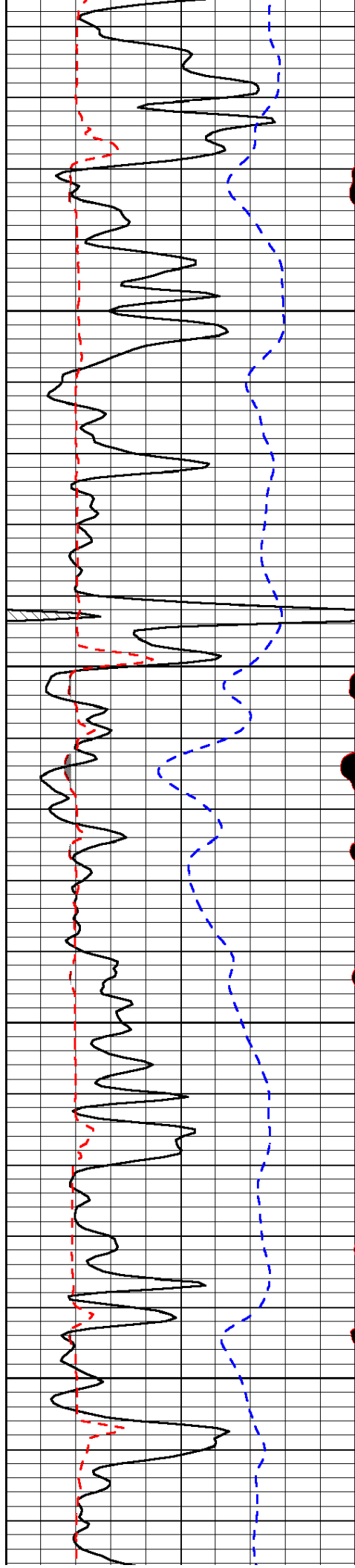
-31

-31

-31

-31

-30



3300

3350

3400

3450

