



Microresistivity Log

Pioneer Energy Services

API No.

15-109-21,221-00-00

Company Lario Oil & Gas Company

Well Rose B Unit No. 1-4

Field Corinne

County Logan State

Kansas

Location

S2-N2-N2-N2
400' FNL & 2640' FEL

Other Services
CNL/CDL
DIL

Sec: 4

Twp: 15S

Rge: 32W

Elevation

Permanent Datum Ground Level Elevation 2758
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 12/18/2013

Run Number Two

Depth Driller 4500

Depth Logger 4500

Bottom Logged Interval 4499

Top Log Interval 3200

Casing Driller 8.625 @ 252

Casing Logger 250

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 4,500

Density / Viscosity 9.1 48

pH / Fluid Loss 10.5 7.2

Source of Sample Flowline

Rm @ Meas. Temp .56 @ 52

Rmf @ Meas. Temp .42 @ 52

Rmc @ Meas. Temp .76 @ 52

Source of Rmf / Rmc Charts

Rm @ BHT .24 @ 121

Operating Rig Time 4 Hours

Max Rec. Temp. F 121

Equipment Number 17

Location Hays

Recorded By J. Henrickson

Witnessed By Steve Davis

<<< Fold Here >>>

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.

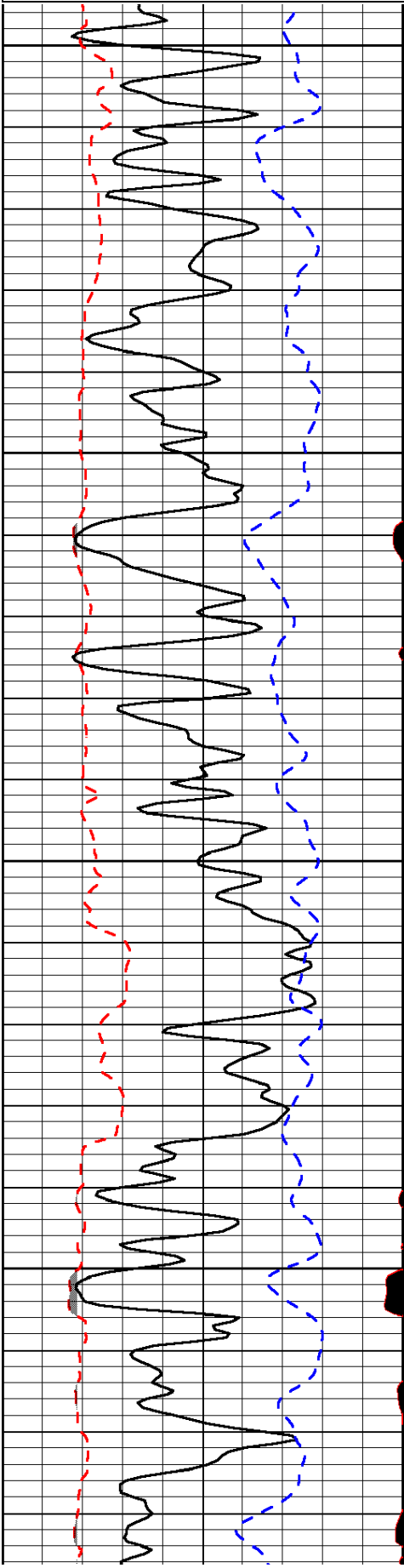
Comments

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

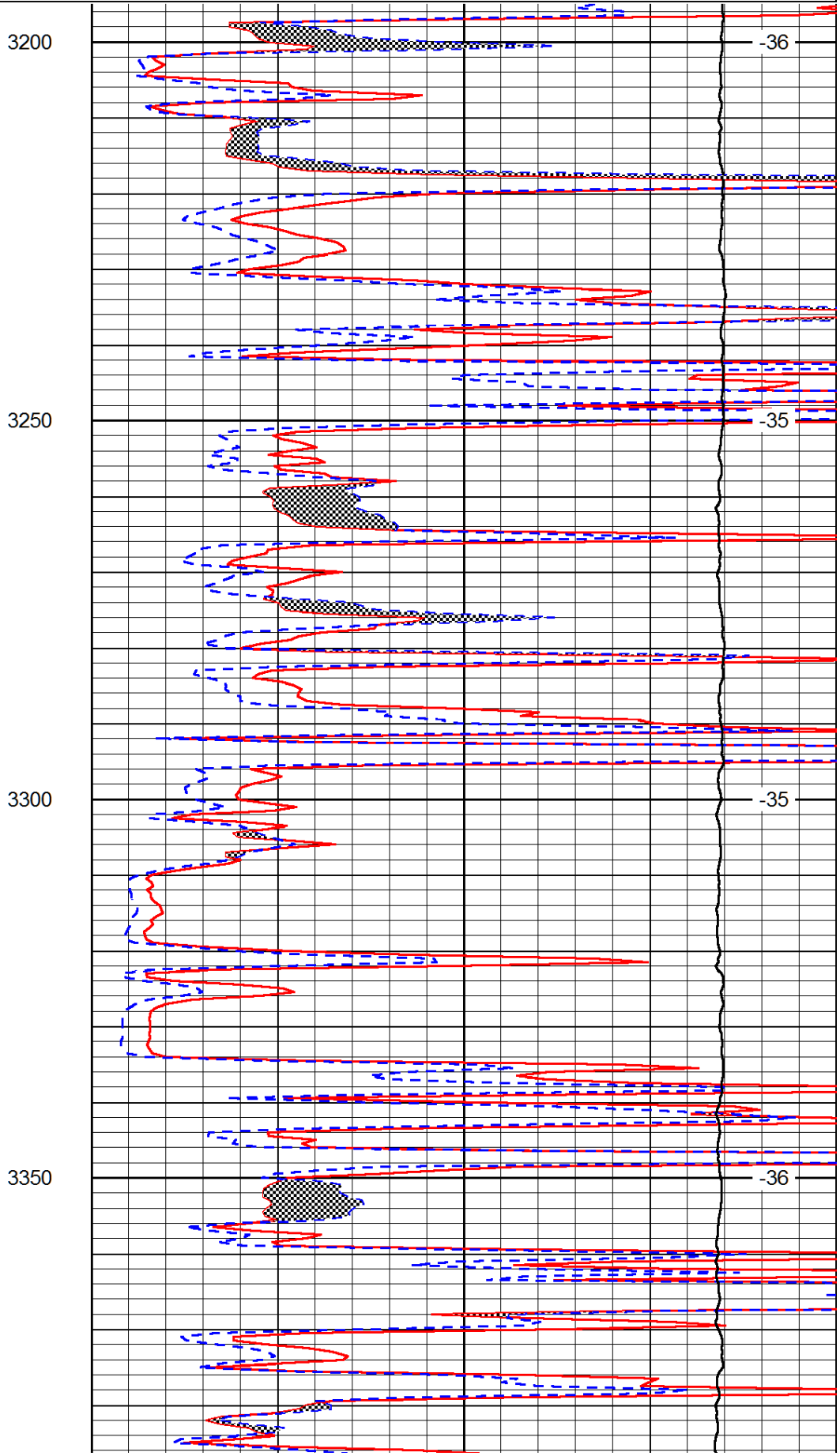
Oakley Kansas
South to Gold Rd, 1.2 West, South Into

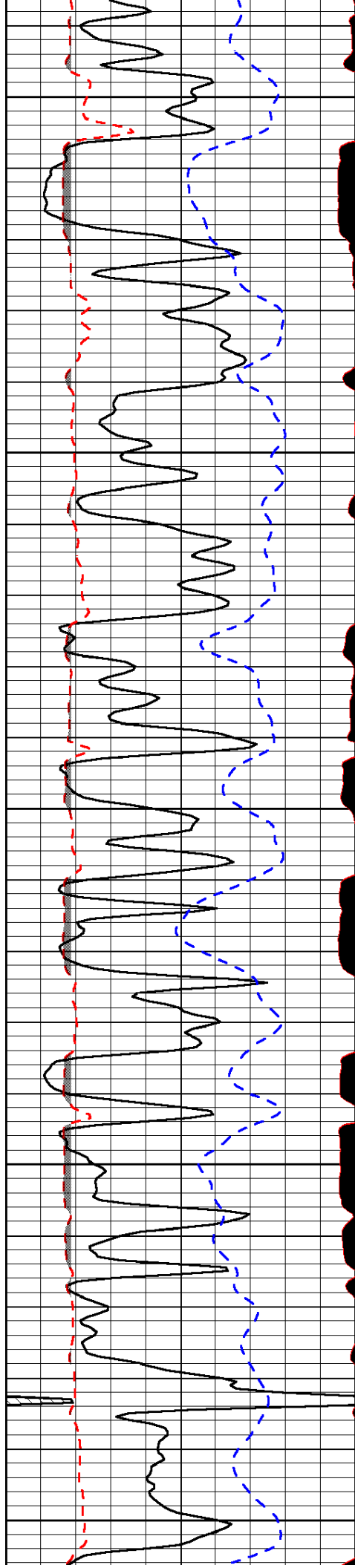
Database File: c:\warrior\data\job bonus\lario_rose-b-unit_#1-4\lario_rose_b_unit_1_4hd.db
Dataset Pathname: DIL\larstk
Presentation Format: micro
Dataset Creation: Wed Dec 18 21:26:54 2013
Charted by: Depth in Feet scaled 1:240

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)





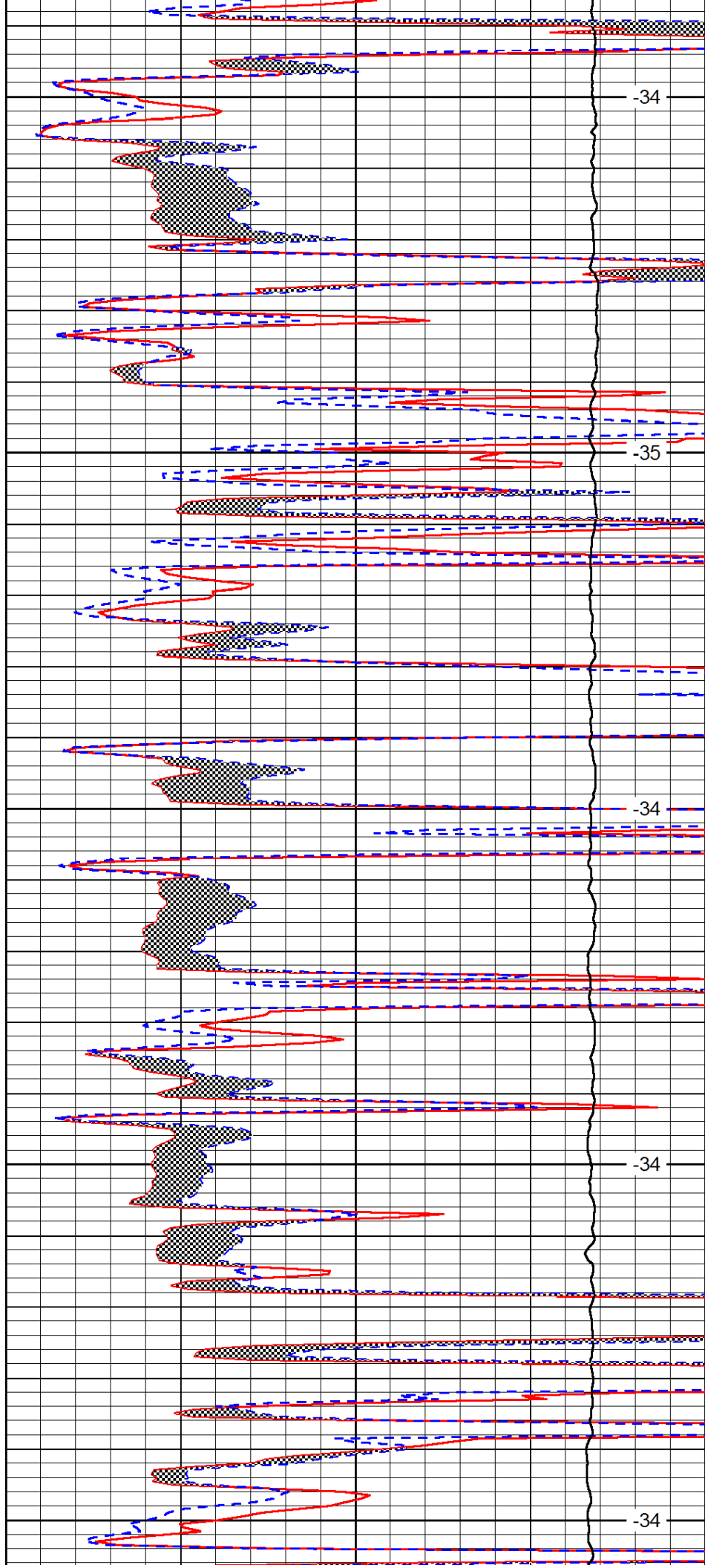
3400

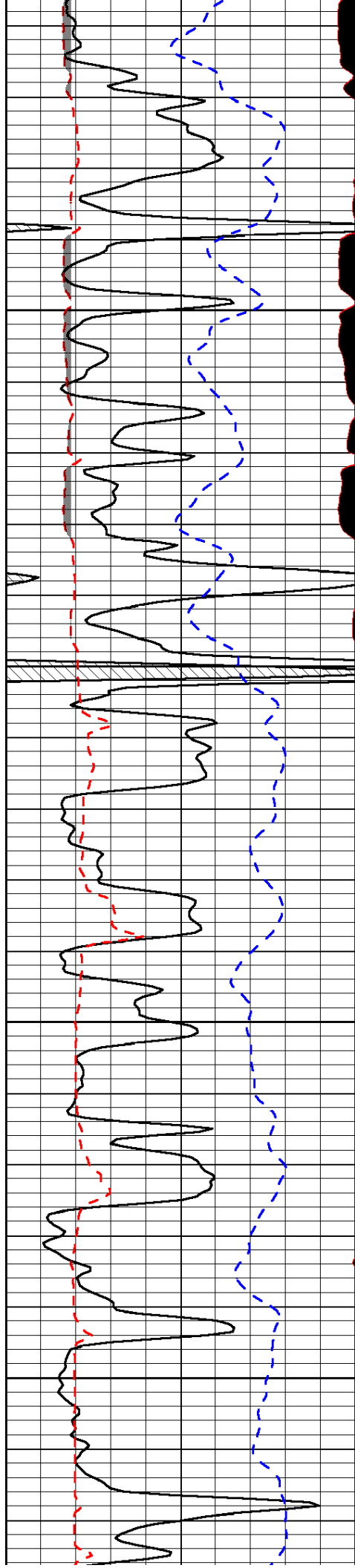
3450

3500

3550

3600



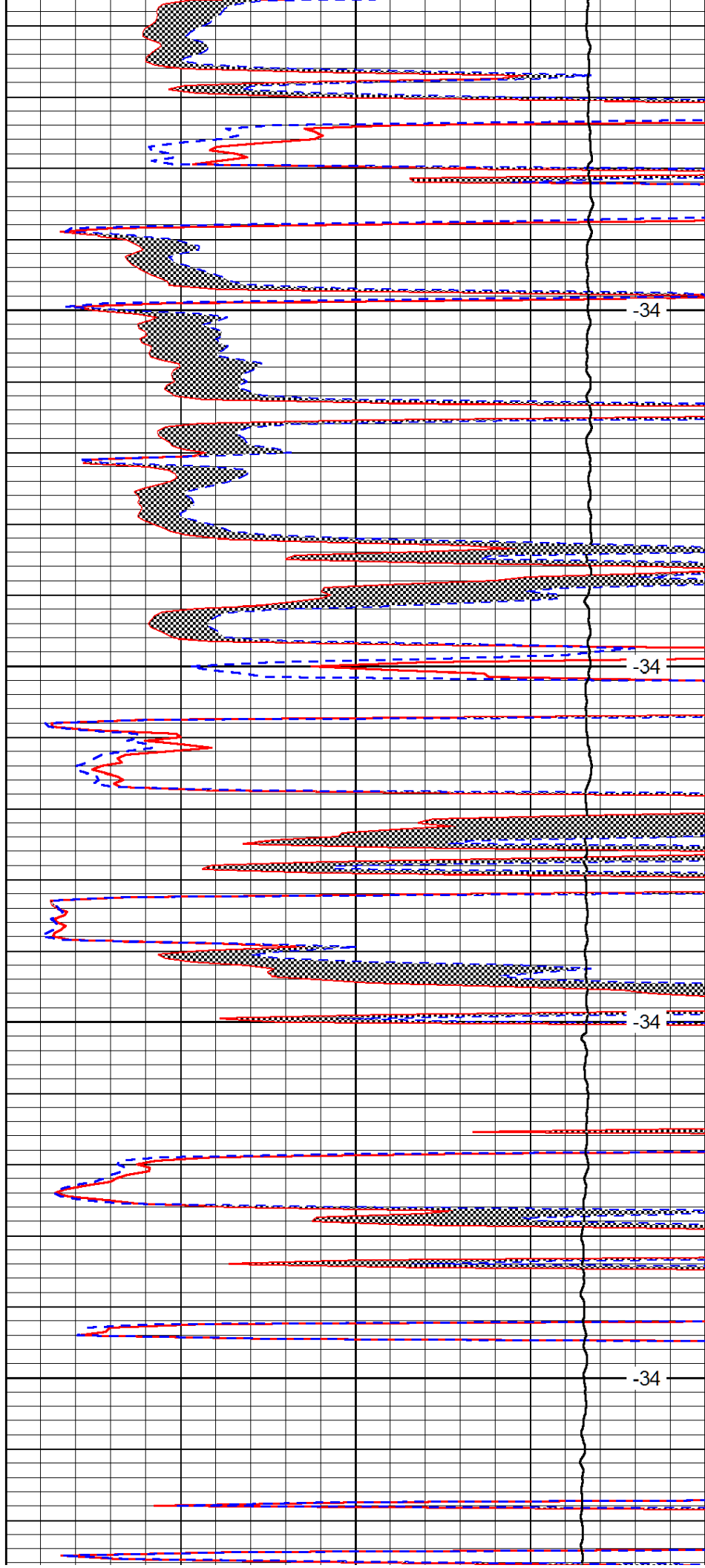


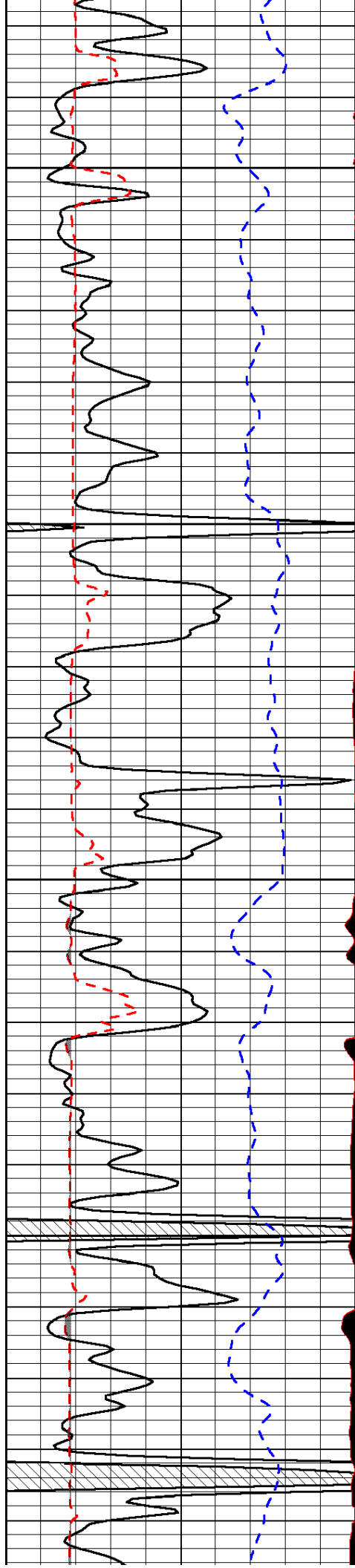
3650

3700

3750

3800



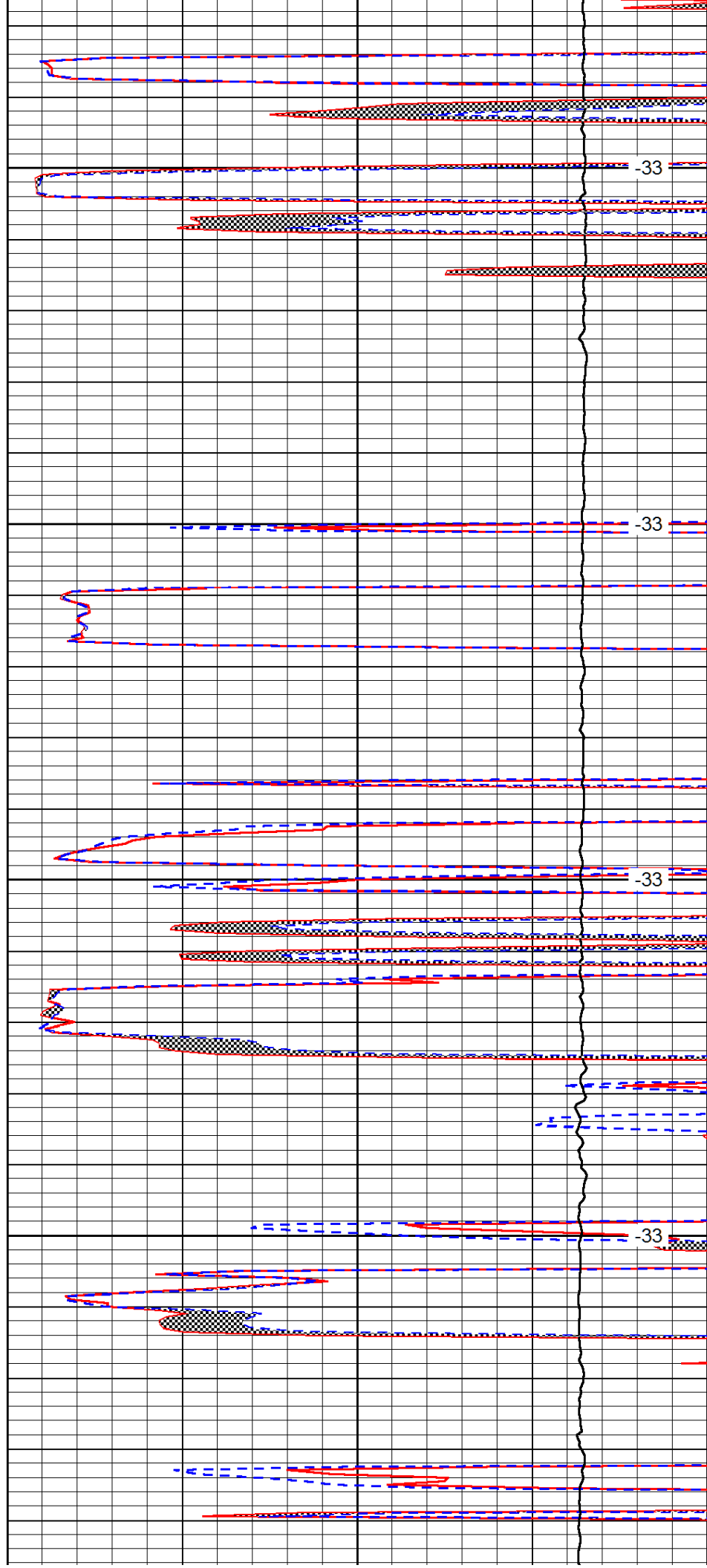


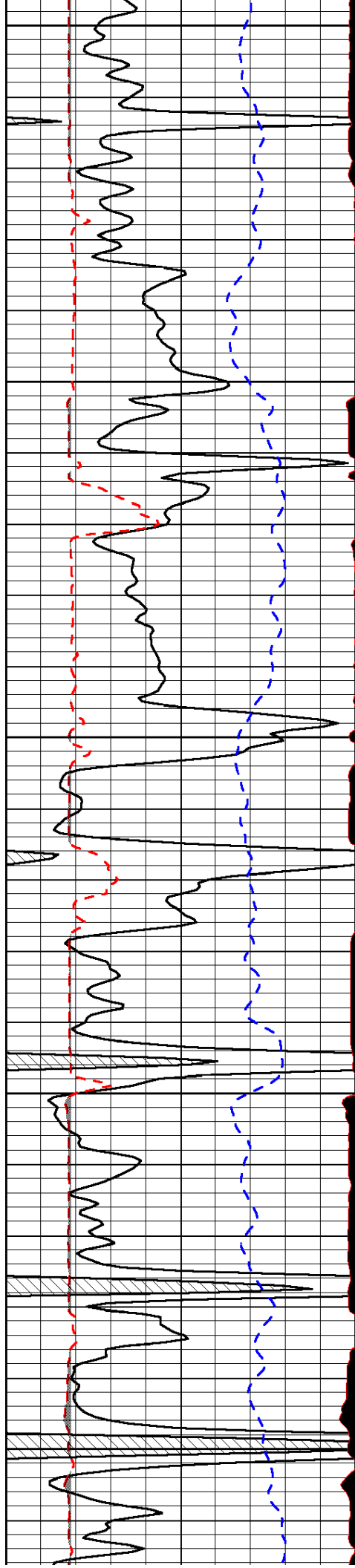
3850

3900

3950

4000





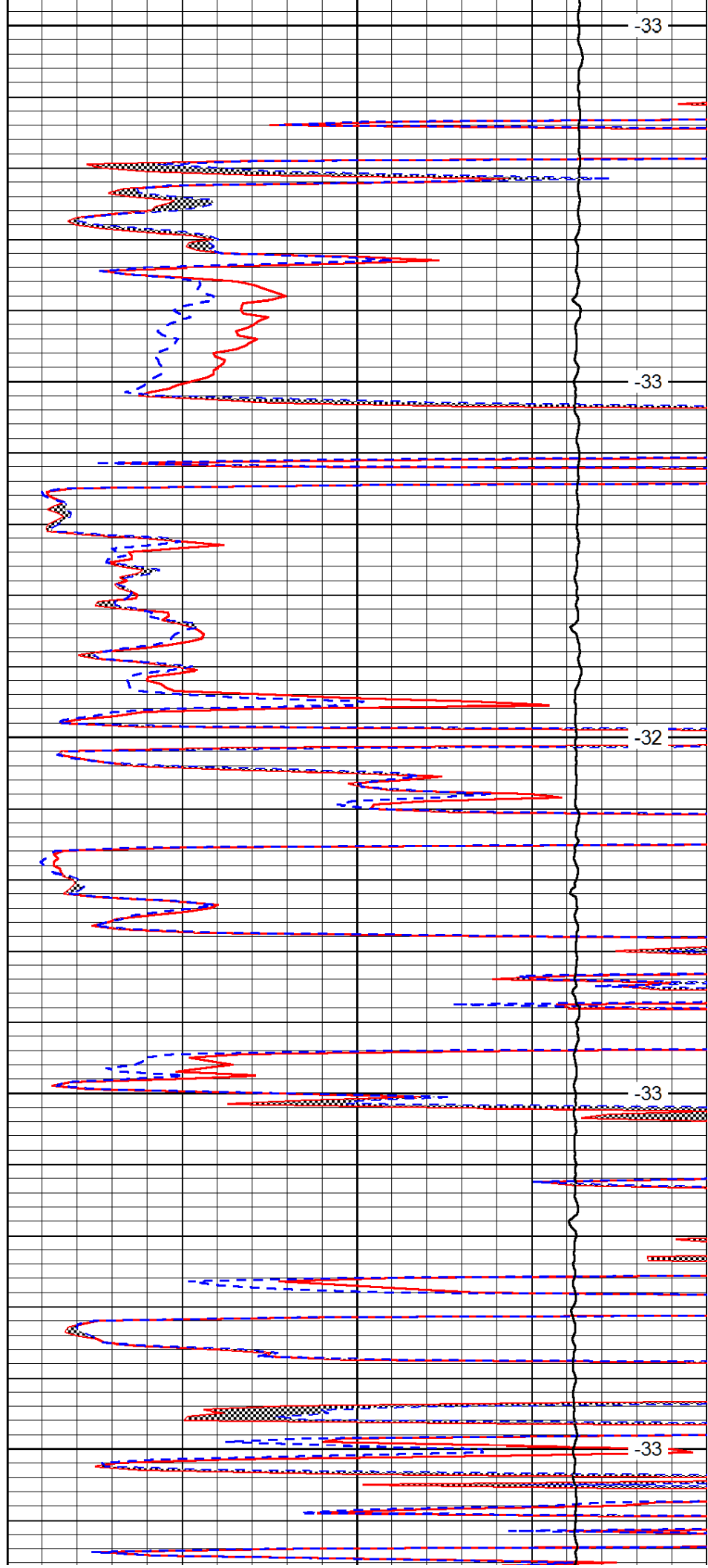
4050

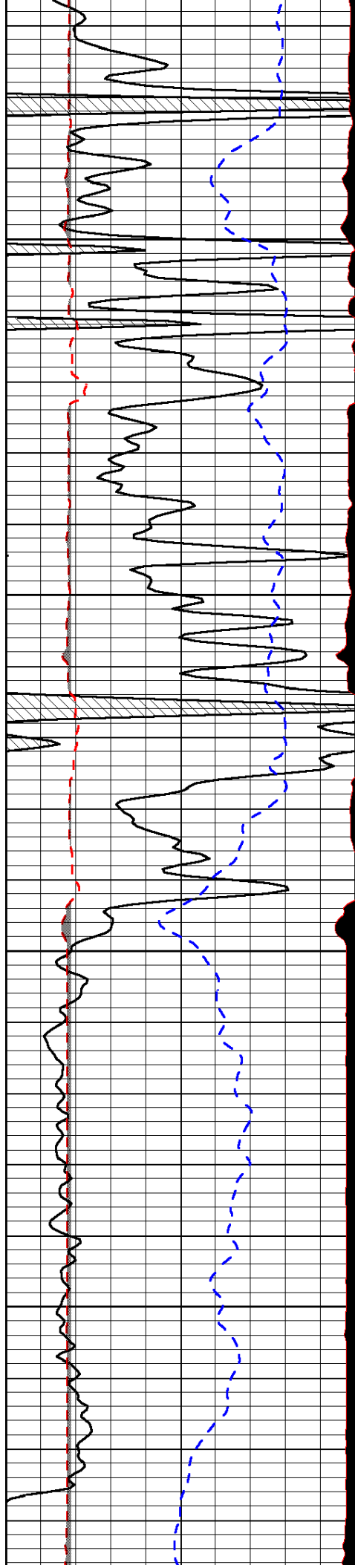
4100

4150

4200

4250



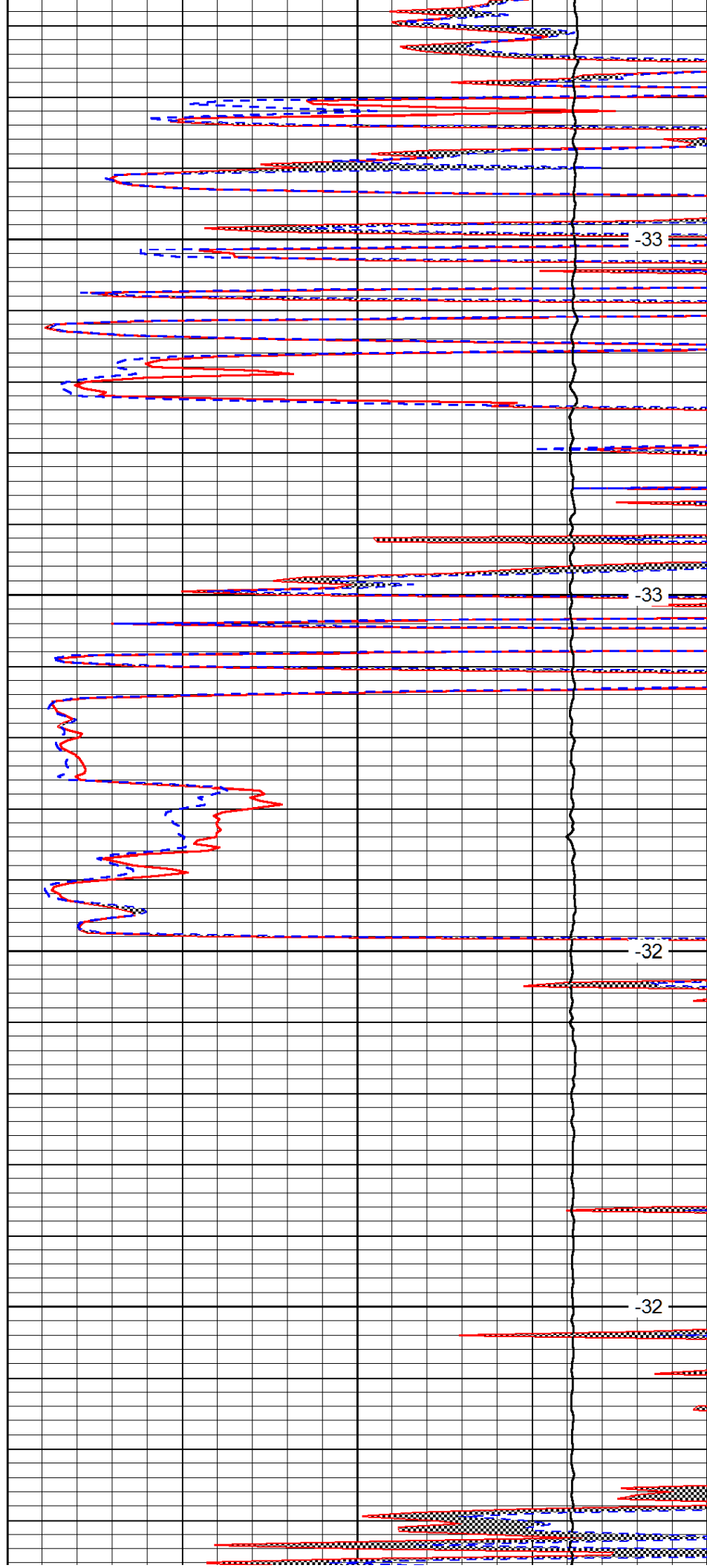


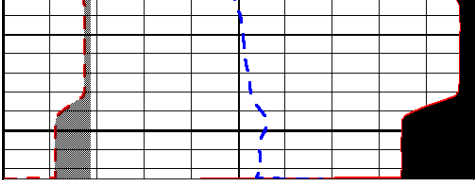
4300

4350

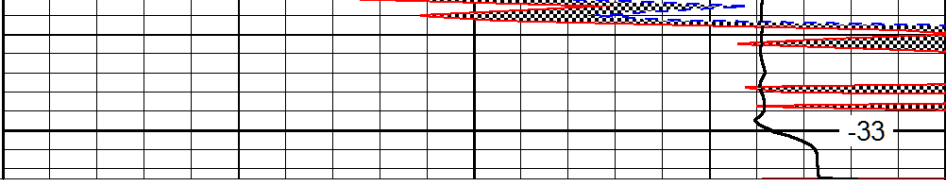
4400

4450





4500



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)