



Microresistivity Log

Pioneer Energy Services

API No.

15-111-20476-00-00

Company Range Oil Company, Inc.

Well Babinger #2

Field Bradfield

County Lyon

State

Kansas

Location 380' FNL & 330' FEL

Sec: 26

Twp: 21S

Rge: 10E

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level

Elevation 1284

Log Measured From Kelly Bushing

10 Ft. Above Perm. Datum

Elevation
K.B. 1294
D.F. 1284
G.L. 1284

Drilling Measured From

Kelly Bushing

Elevation
K.B. 1294
D.F. 1284
G.L. 1284

Date

6/18/2013

Run Number

Two

Depth Driller

2670

Depth Logger

2669

Bottom Logged Interval

2668

Top Log Interval

800

Casing Driller

8.625 @ 232

Casing Logger

226

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1800

Density / Viscosity

9.4 54

pH / Fluid Loss

9.5 9.6

Source of Sample

Flowline

Rm @ Meas. Temp

0.60 @ 76

Rmf @ Meas. Temp

0.45 @ 76

Rmc @ Meas. Temp

0.81 @ 76

Source of Rmf / Rmc

Charts

Rm @ BHT

0.44 @ 105

Operating Rig Time

4 Hours

Max Rec. Temp. F

105

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

John Washburn

<<< Fold Here >>>

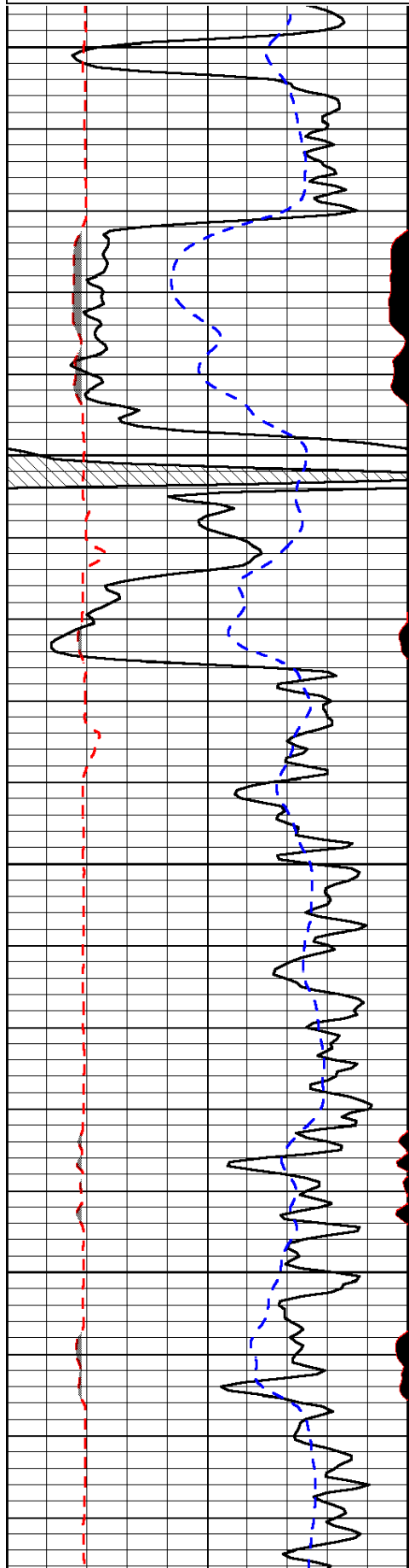
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

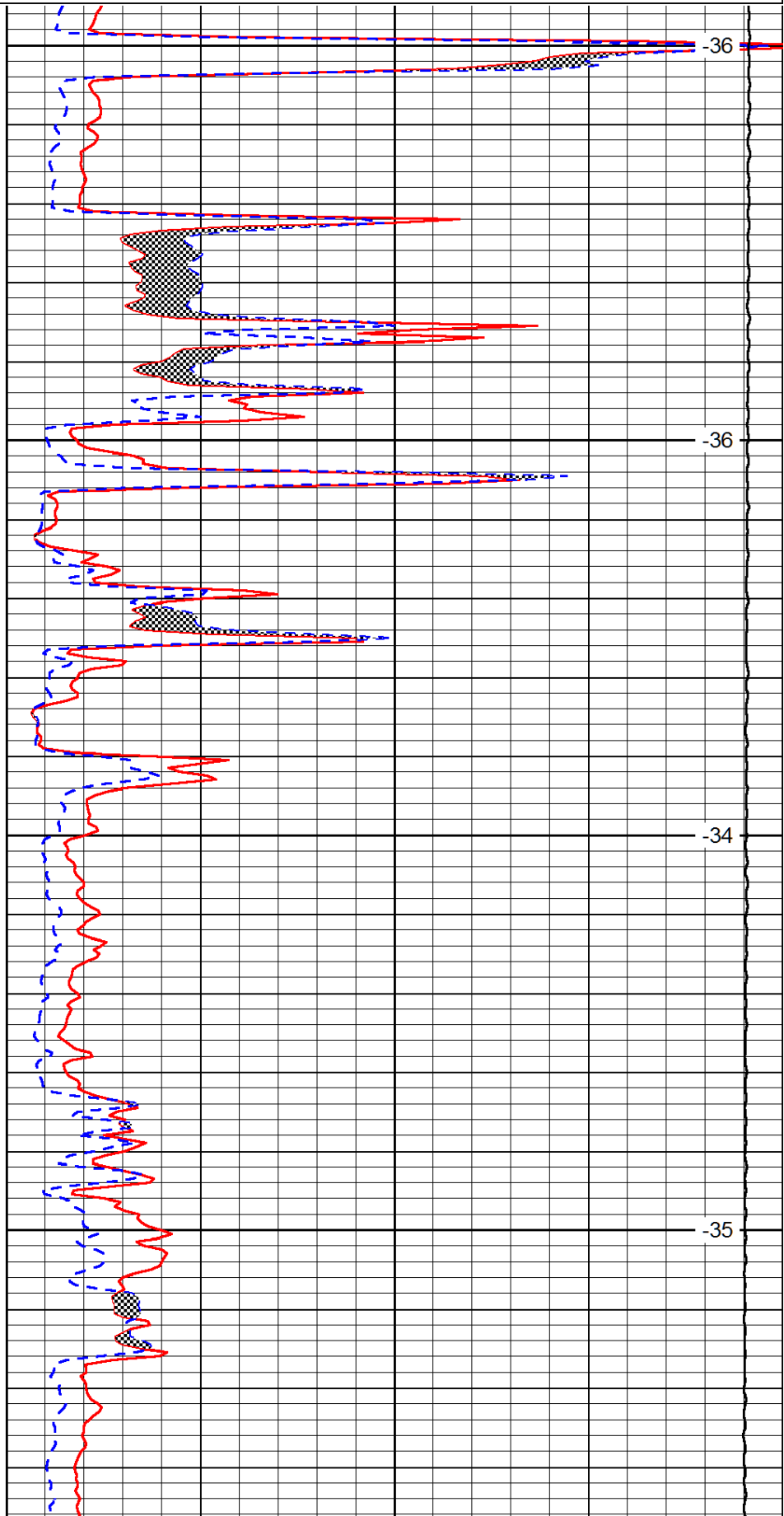
Thank you for using Log-Tech, Inc.
(785) 625-3858
Madison,
1 1/2 North to 380 Rd, 6 West to G Rd,
1 North to 20 Rd, 1 West,
North into thru gate for about 1 mile

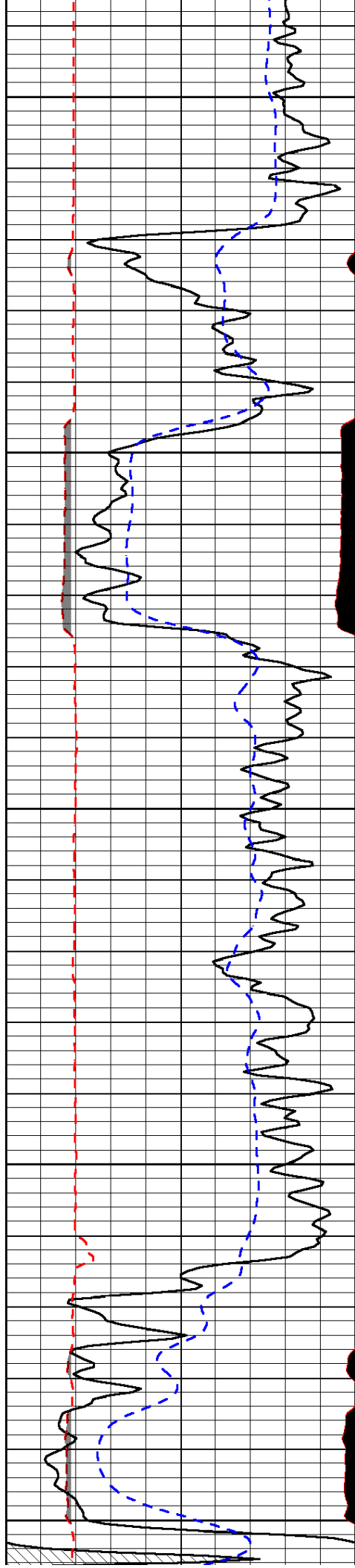
Database File: range_061813hd.db
Dataset Pathname: dil/rngstk
Presentation Format: micro
Dataset Creation: Tue Jun 18 14:36:25 2013
Charted by: Depth in Feet scaled 1:240

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)





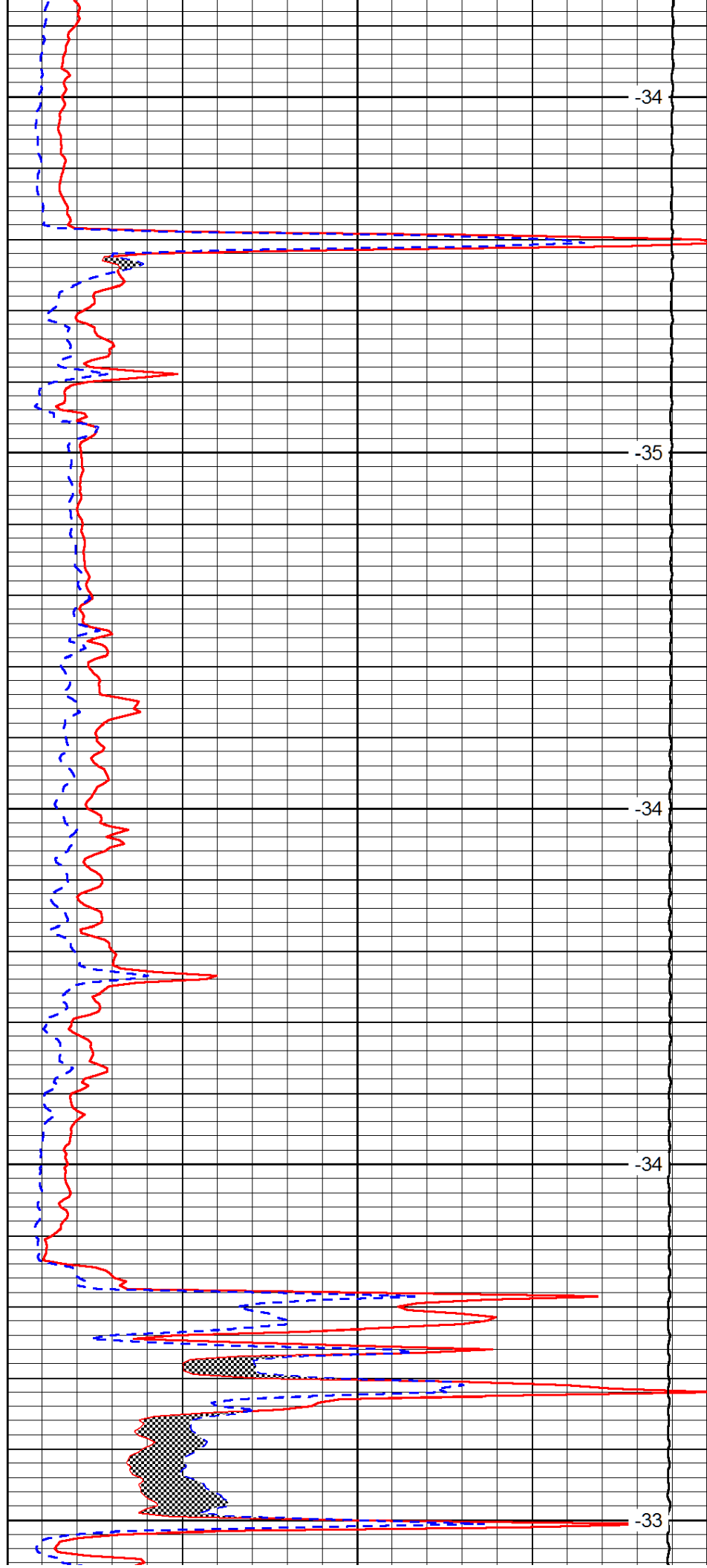
1000

1050

1100

1150

1200



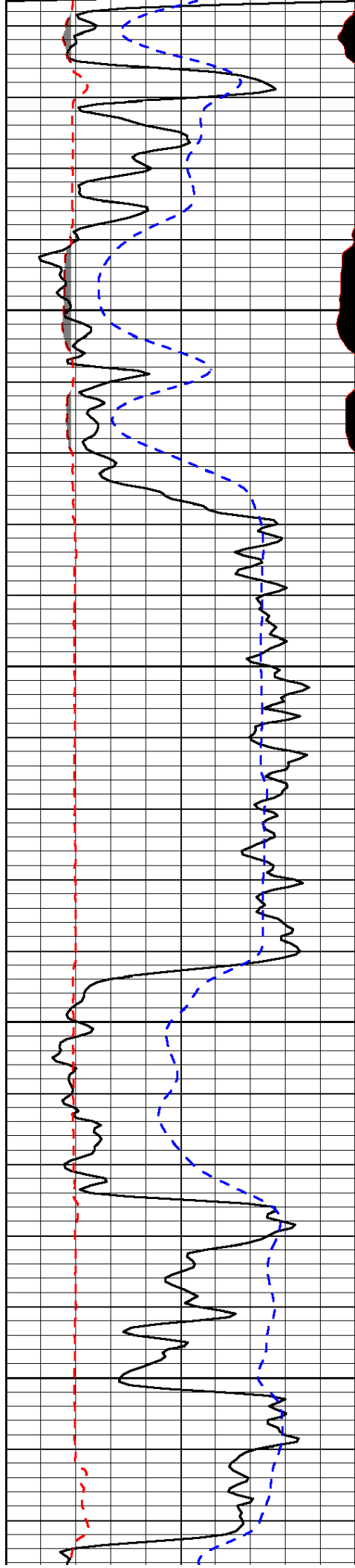
-34

-35

-34

-34

-33

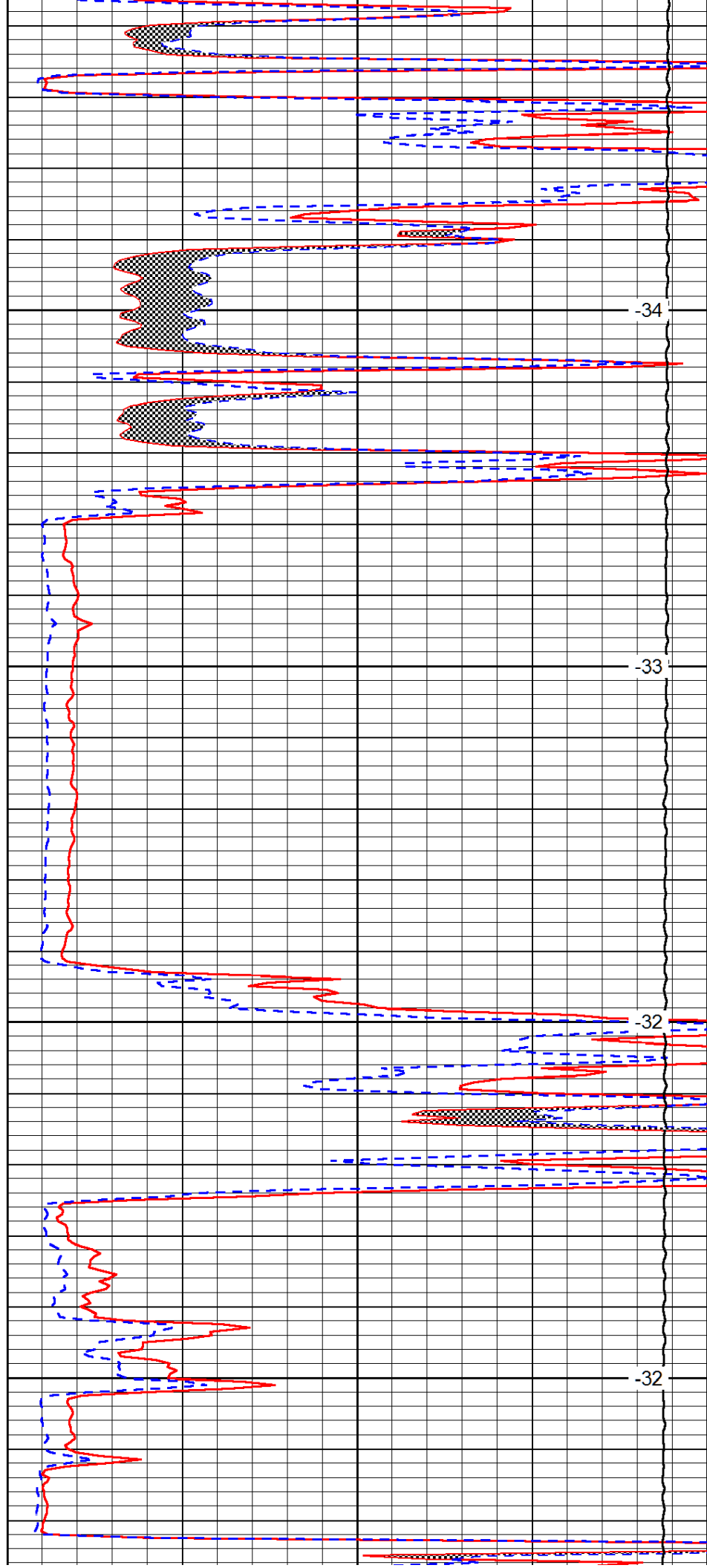


1250

1300

1350

1400

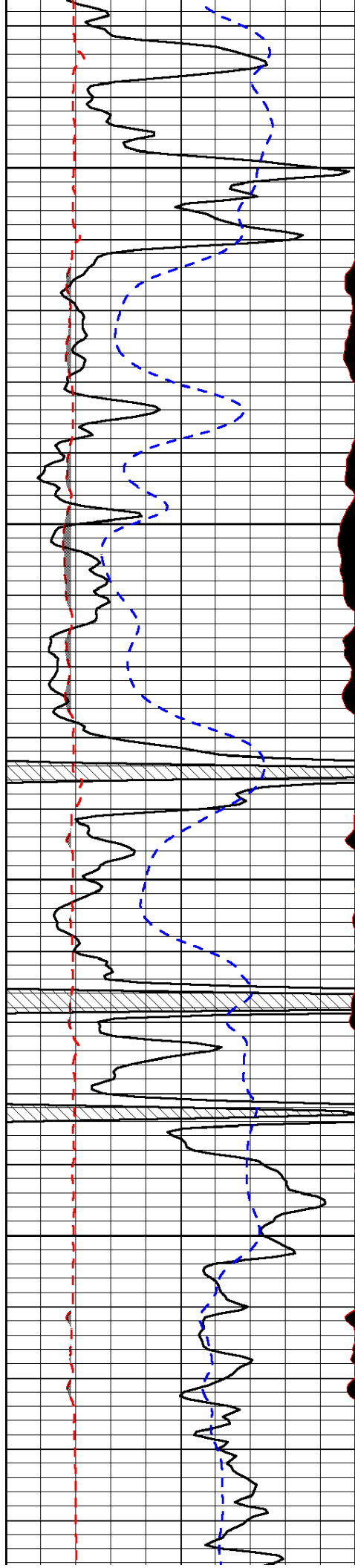


-34

-33

-32

-32

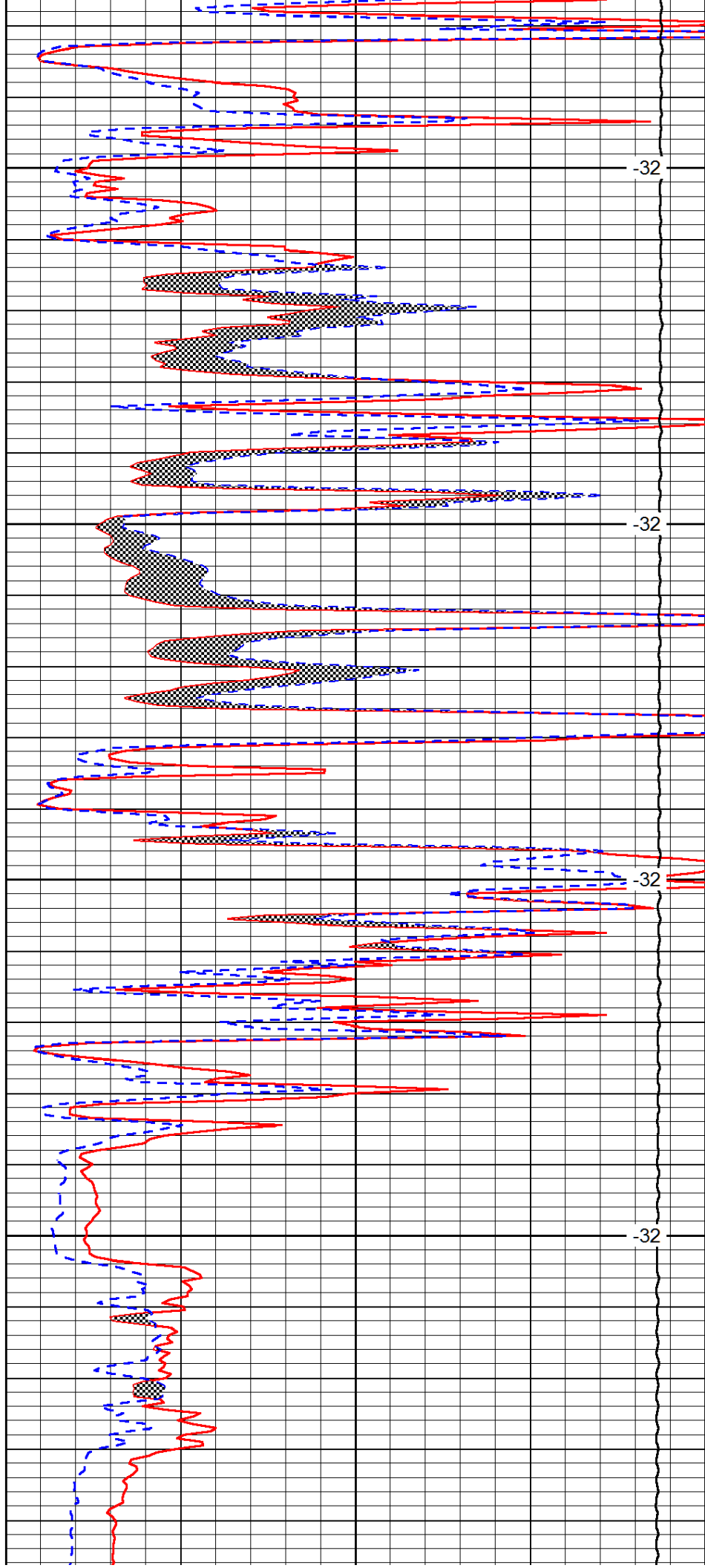


1450

1500

1550

1600

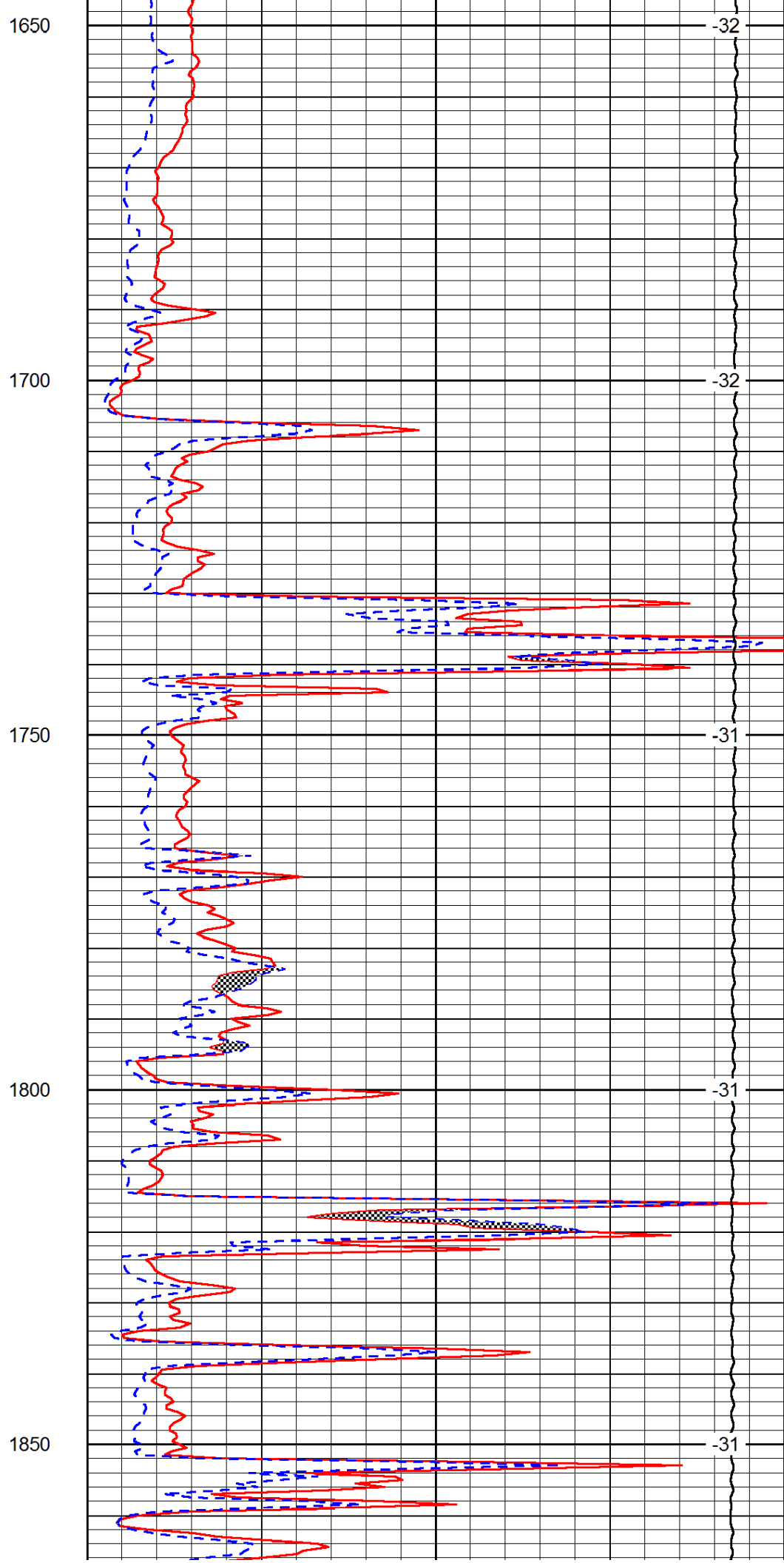
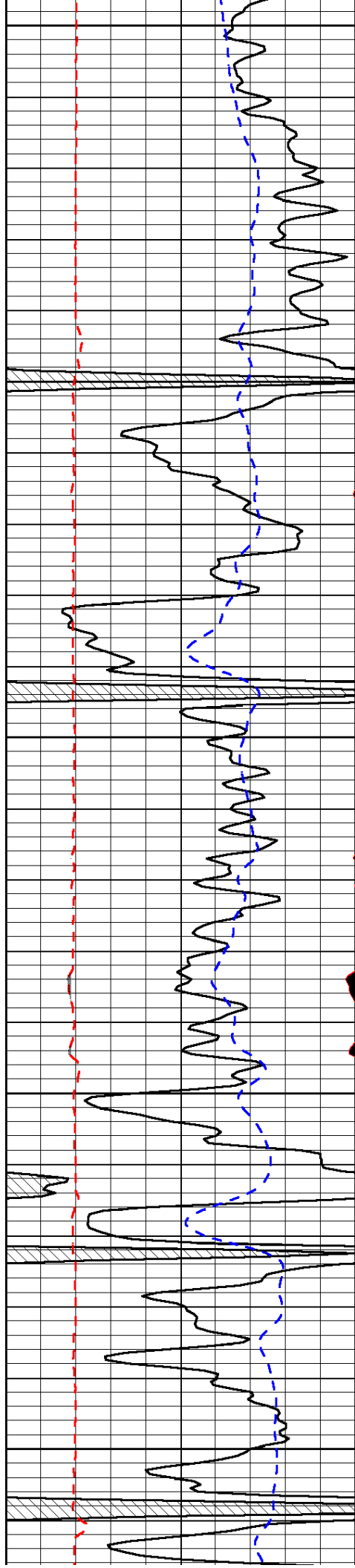


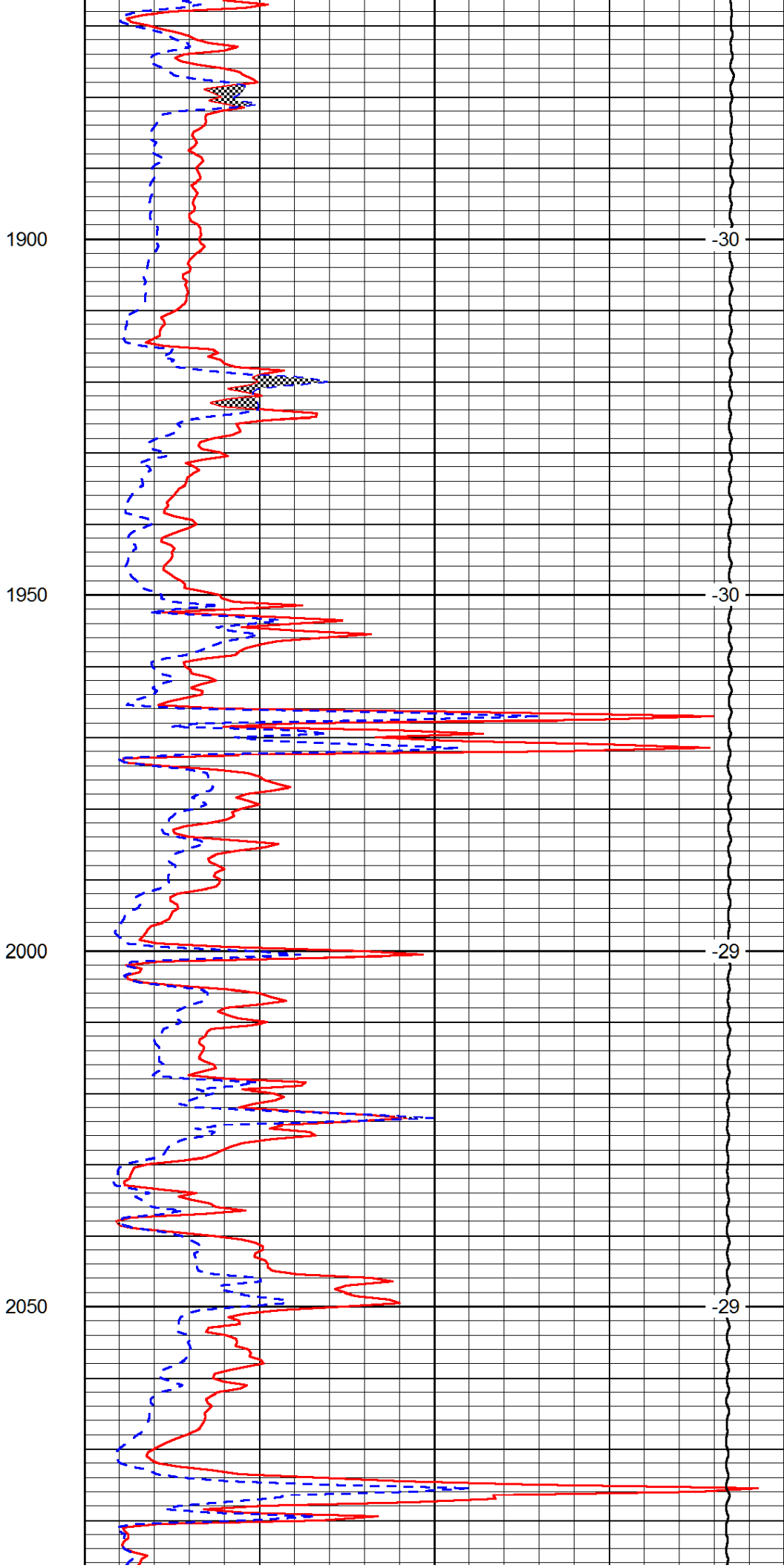
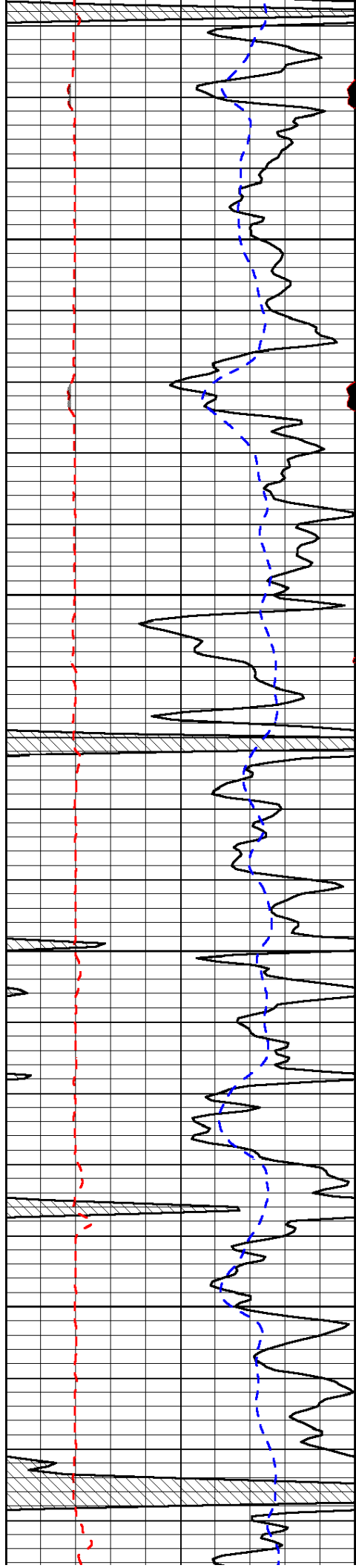
-32

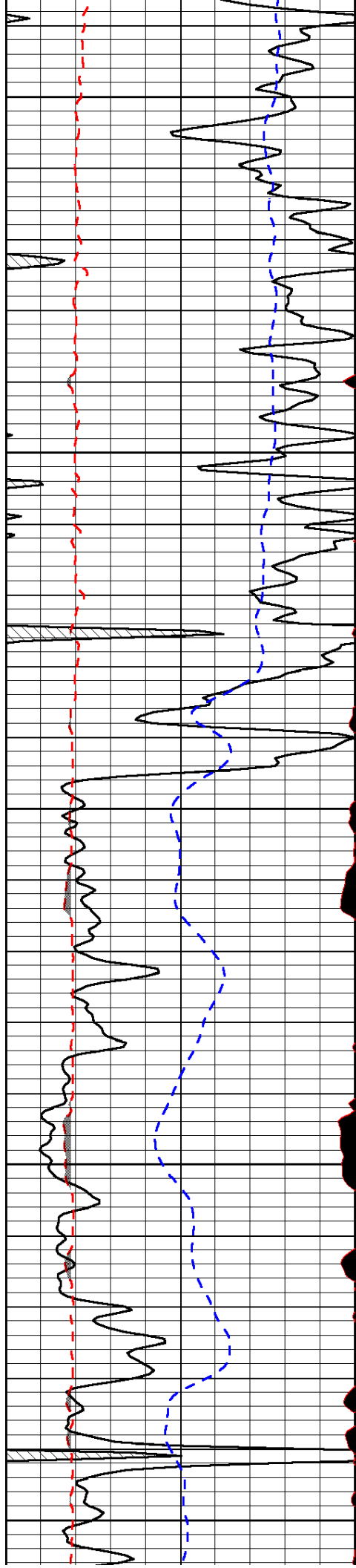
-32

-32

-32







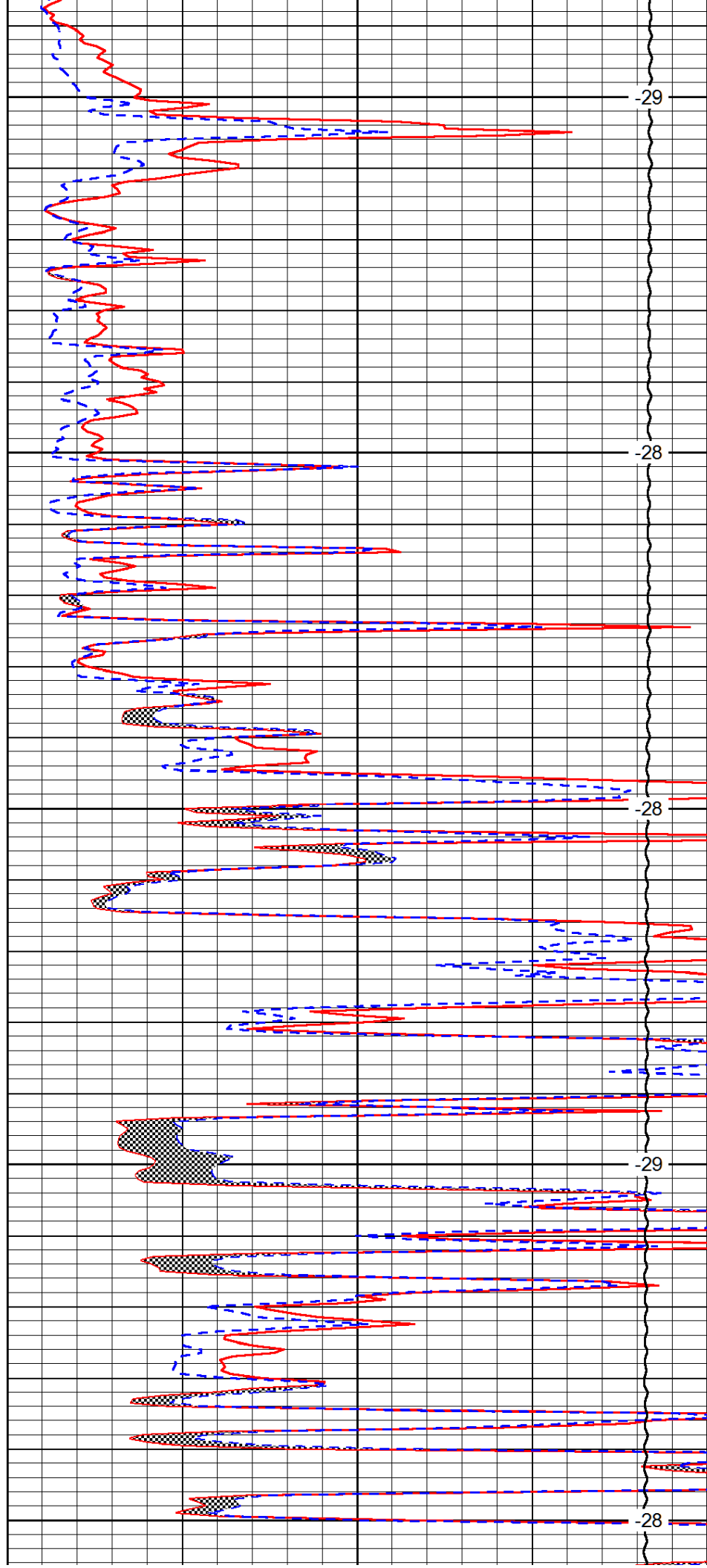
2100

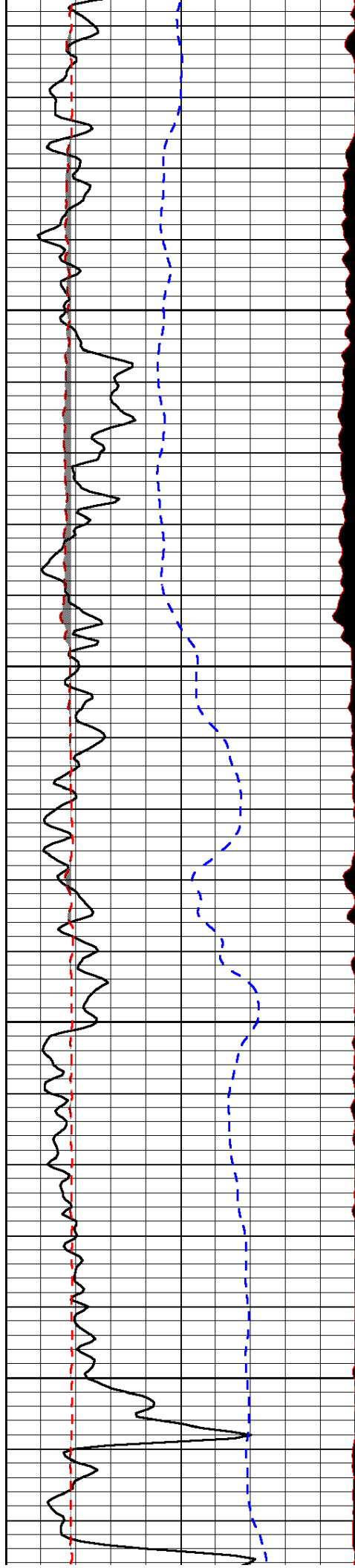
2150

2200

2250

2300



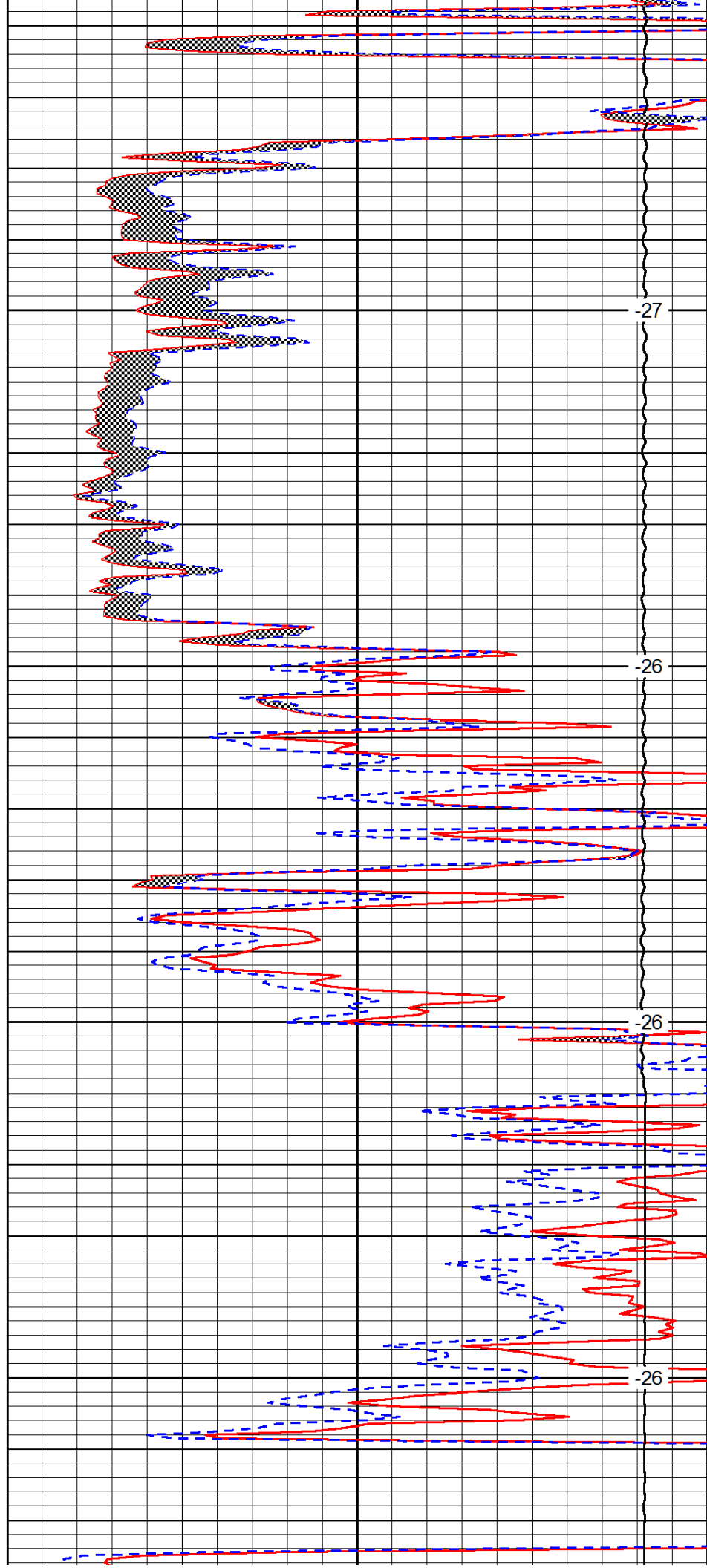


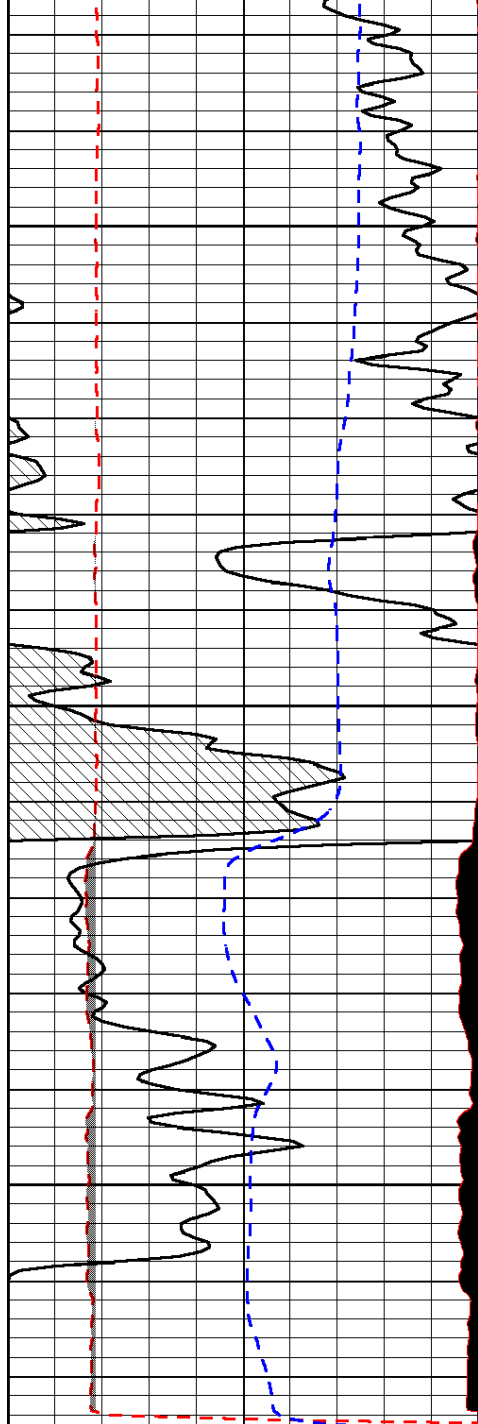
2350

2400

2450

2500



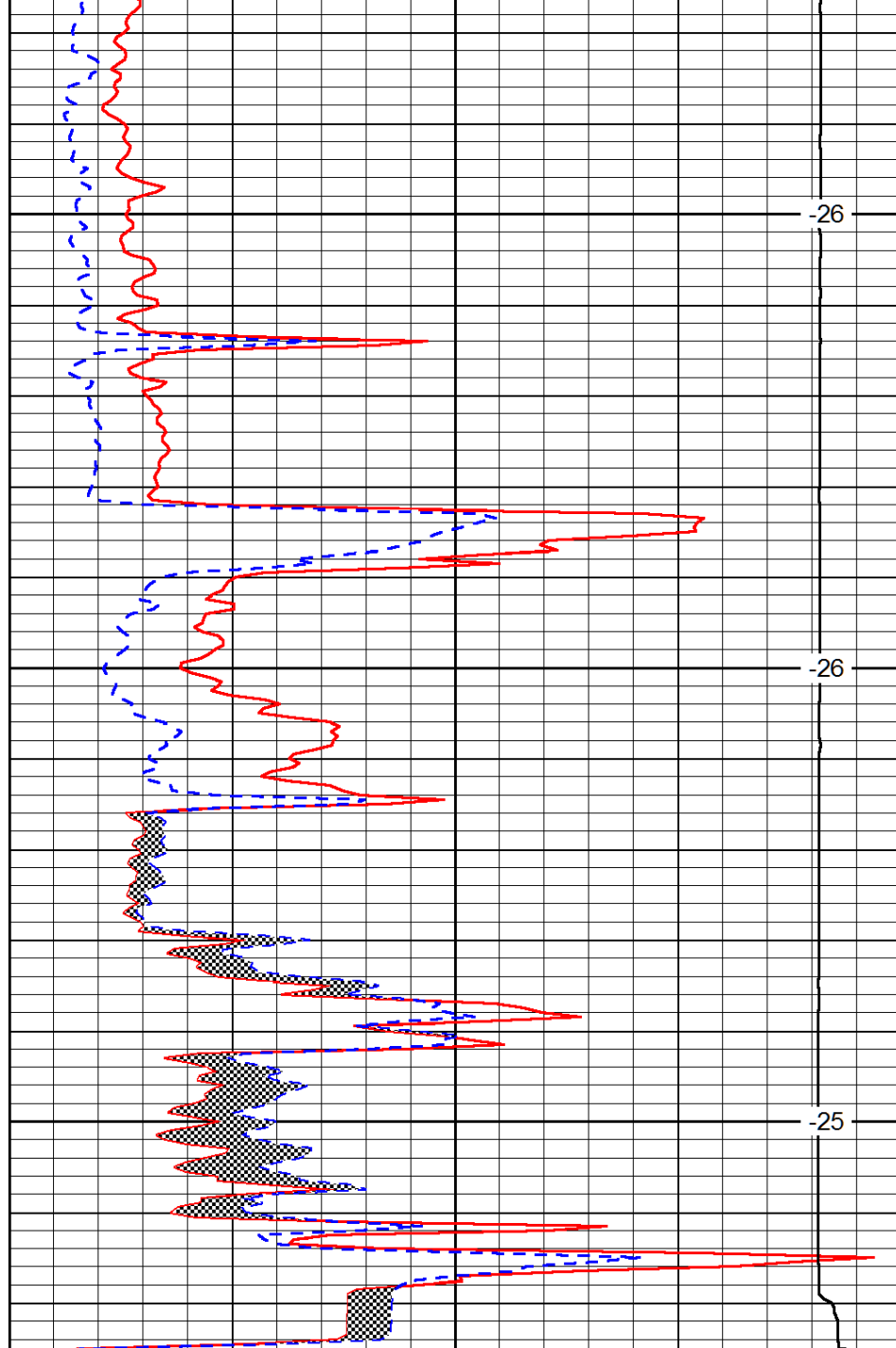


0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

2550

2600

2650



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

LSPD
(ft/min)