



Pioneer Energy Services

Microresistivity Log

API No.

15-017-20,916-00-00

Company Range Oil Company, Inc.

Well Madden Unit No. 1

Field Wildcat

County Chase

State

Kansas

Location

NW-NW-SE-NW
1460' FNL & 1390' FWL

Other Services
CNL/CDL
DIL

Sec: 31

Twp: 19S

Rge: 6E

Elevation

Permanent Datum Ground Level Elevation 1460
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1469
D.F.
G.L. 1460

Date

6/2/2014

Run Number

One

Depth Driller

2262

Depth Logger

2260

Bottom Logged Interval

2259

Top Log Interval

1300

Casing Driller

8.625 @ 200

Casing Logger

208

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

900

Density / Viscosity

8.9 52

pH / Fluid Loss

9.5 7.6

Source of Sample

Flowline

Rm @ Meas. Temp

4.70 @ 82

Rmf @ Meas. Temp

3.53 @ 82

Rmc @ Meas. Temp

6.35 @ 82

Source of Rmf / Rmc

Charts

Rm @ BHT

3.91 @ 99

Operating Rig Time

4 Hours

Max Rec. Temp. F

99

Equipment Number

10

Location

Hays

Recorded By

J. Henrickson

Witnessed By

Ken Wallace

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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

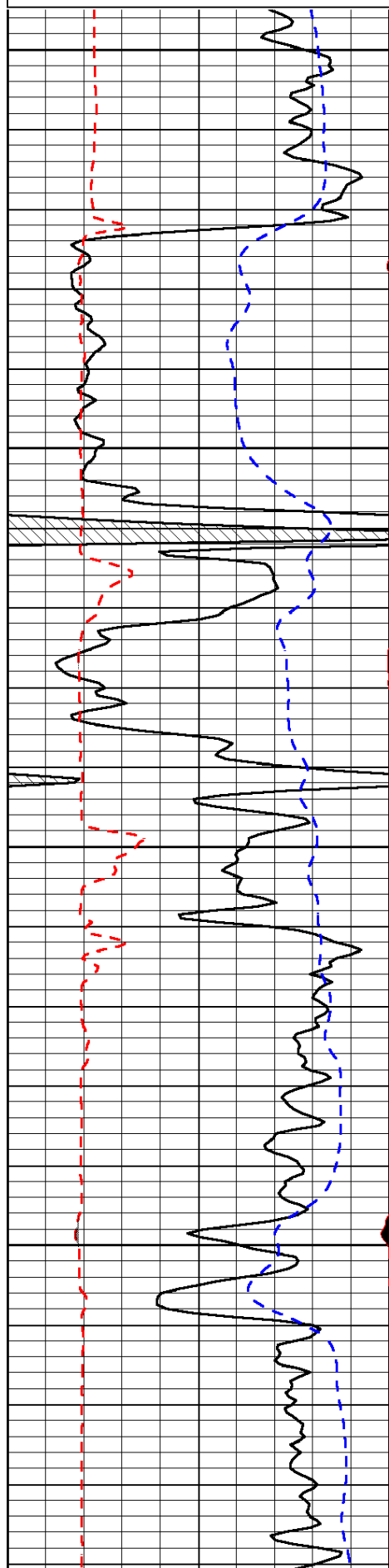
Marion Kansas
East to 4 Way Stop, 8 East, South Into

Database File: range_madden_unit_1hd.db
Dataset Pathname: DIL/rangeall
Presentation Format: micro
Dataset Creation: Mon Jun 02 21:40:05 2014
Charted by: Depth in Feet scaled 1:240

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

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

LSPD

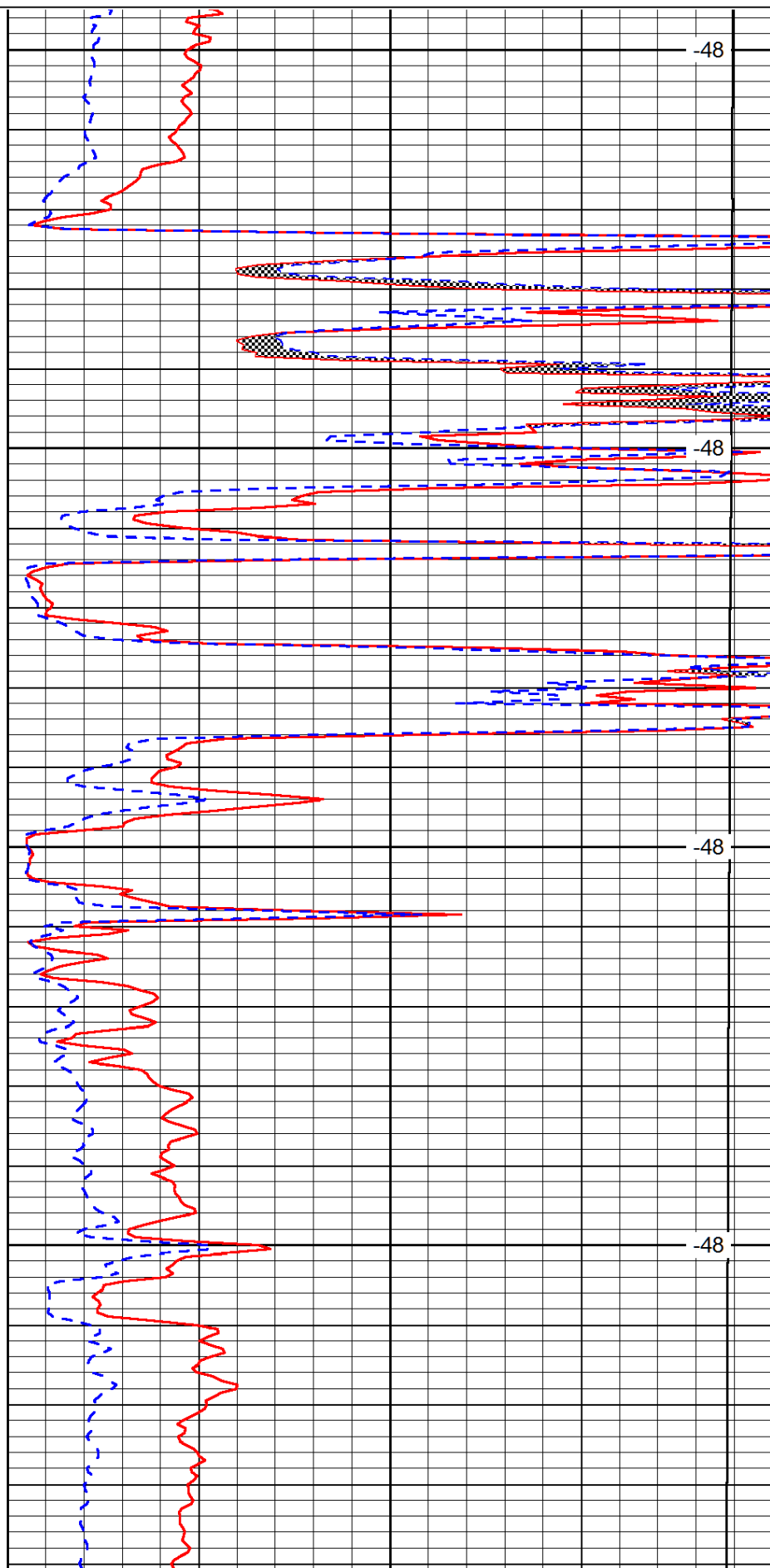


1300

1350

1400

1450

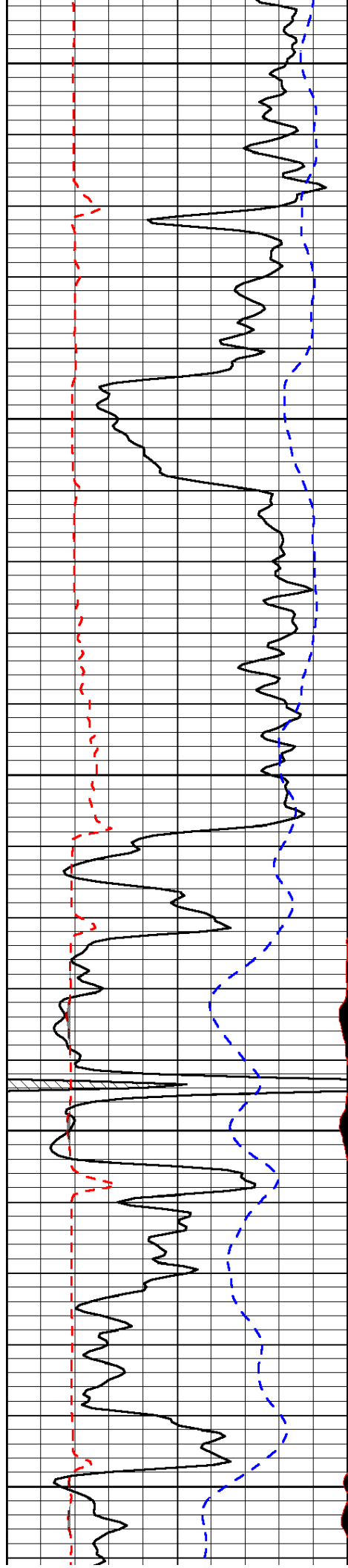


-48

-48

-48

-48



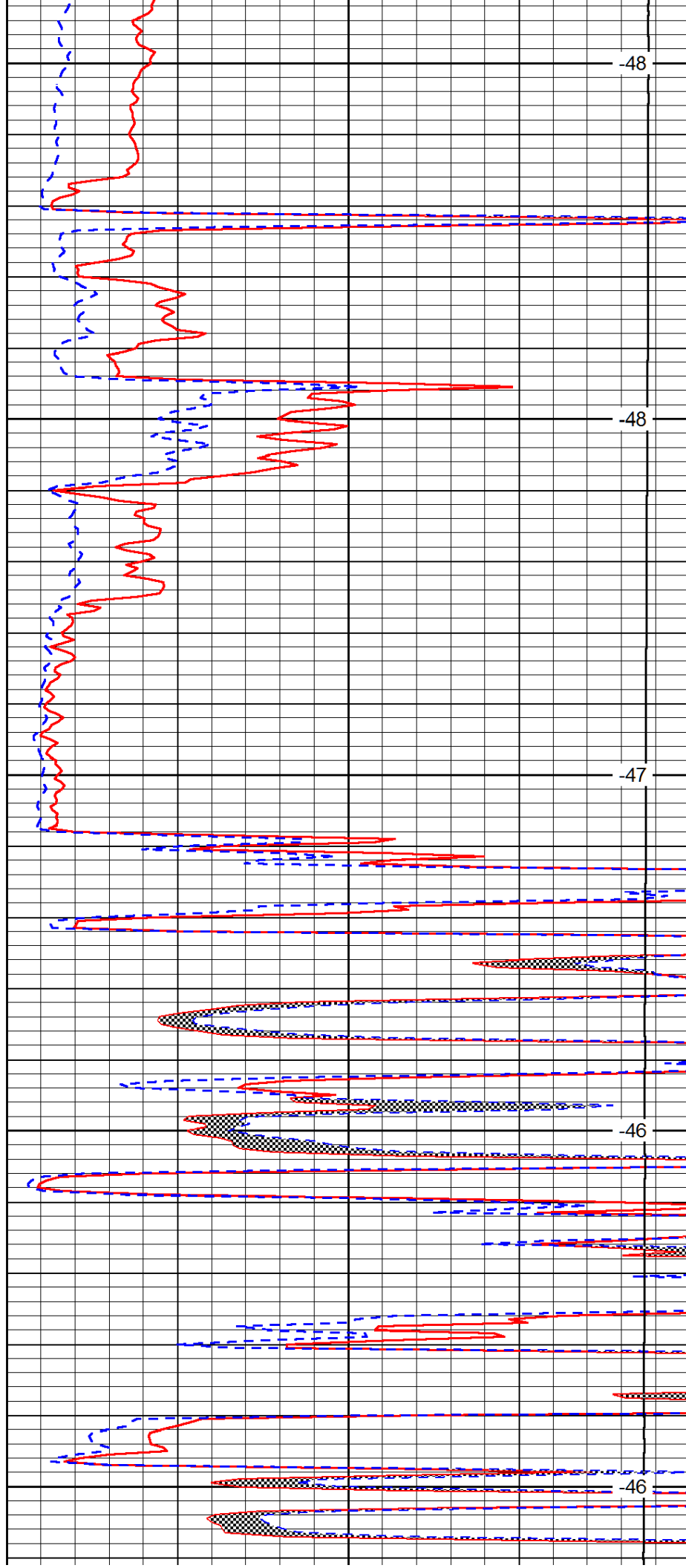
1500

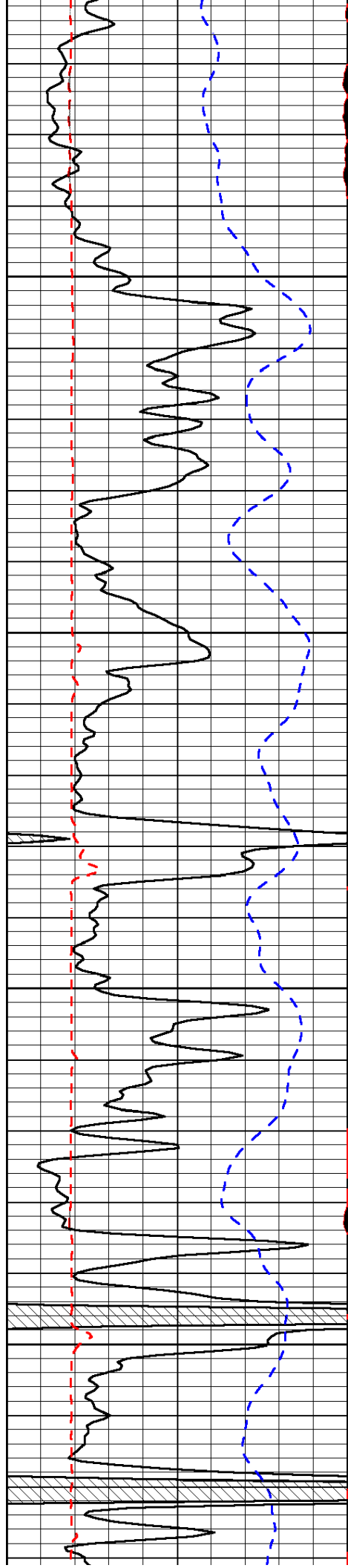
1550

1600

1650

1700



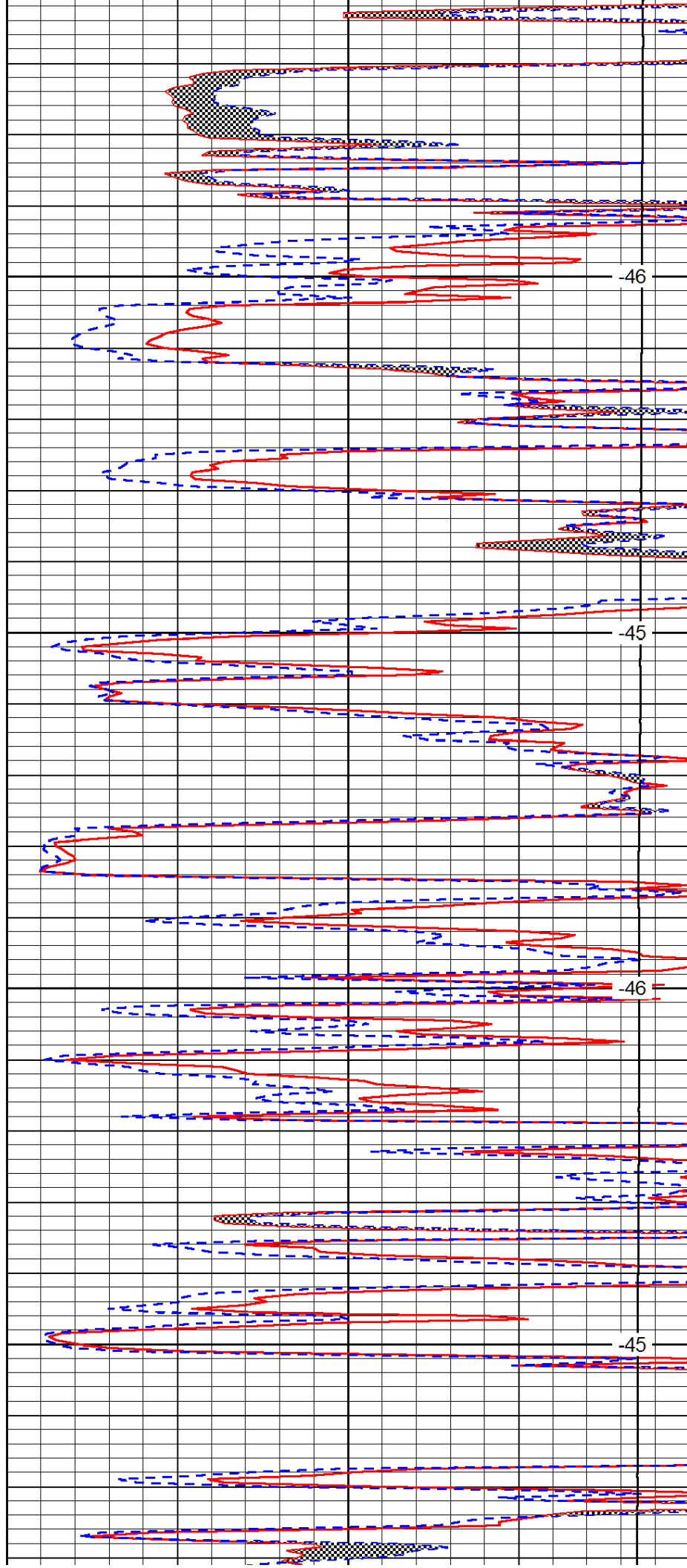


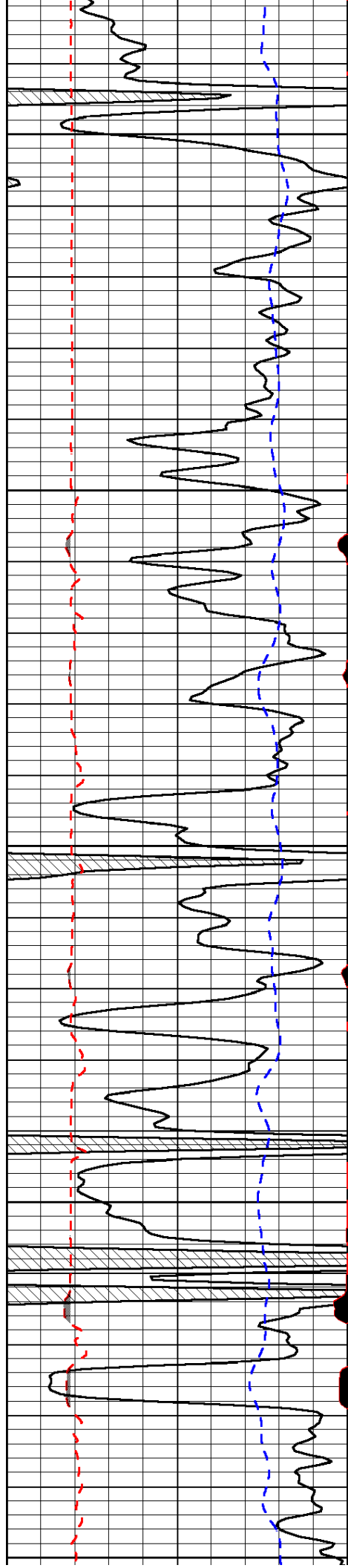
1750

1800

1850

1900





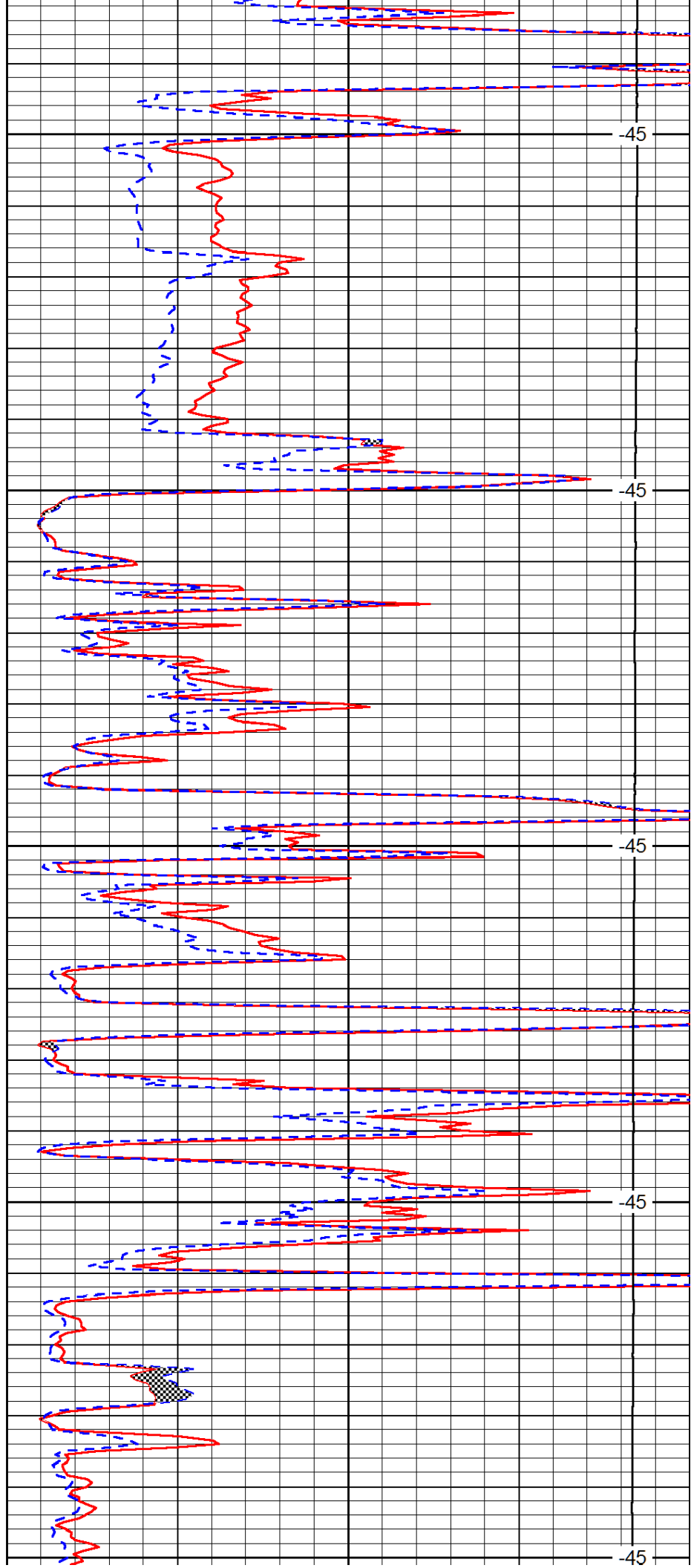
1950

2000

2050

2100

2150



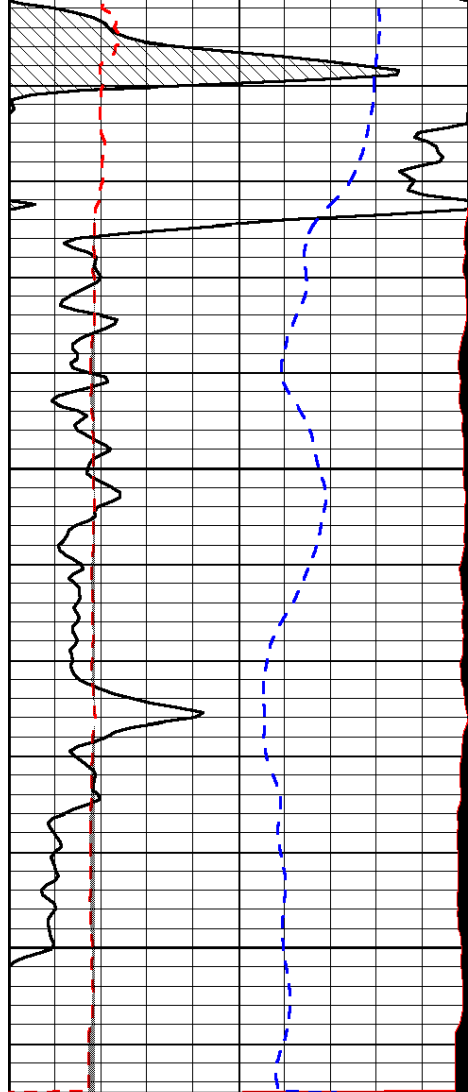
-45

-45

-45

-45

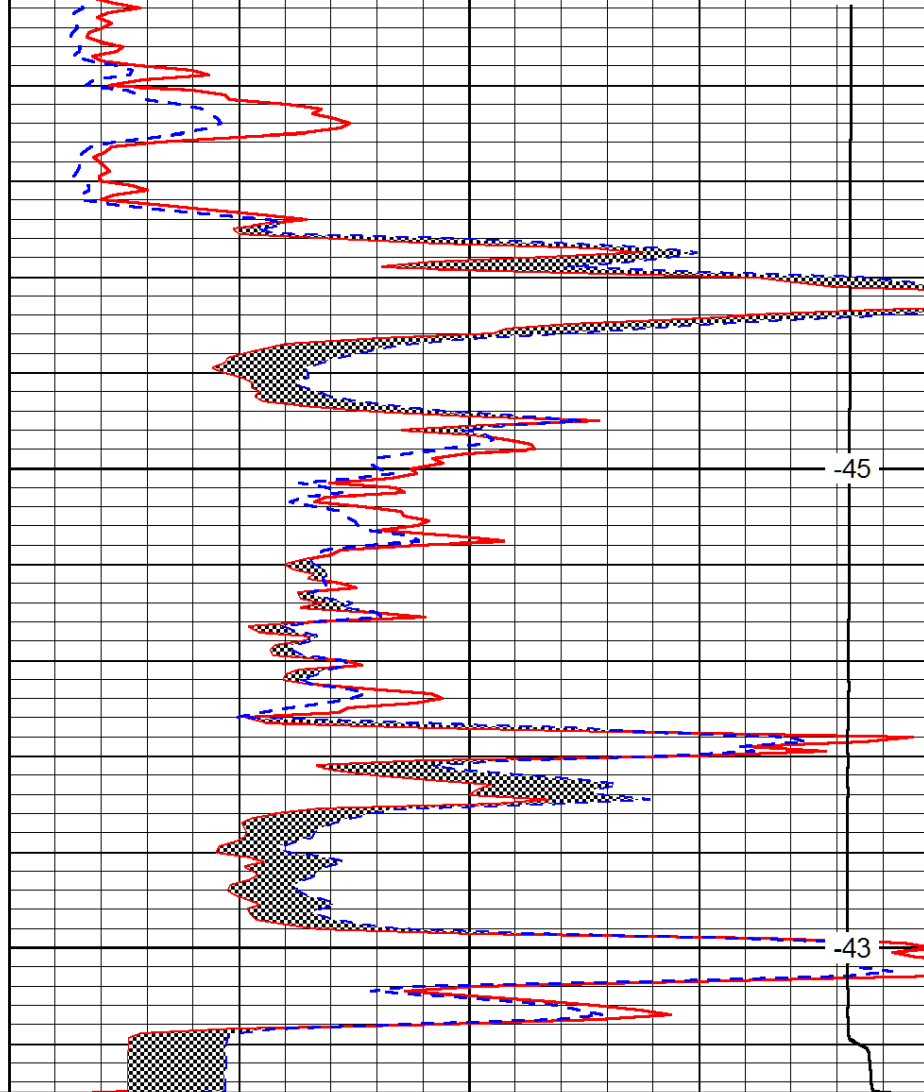
-45



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