

LOG-TECH



Dual Induction Log

DIGITAL LOG

(785) 625-3858

API No.

15-015-23,909-00-00

Company Noble Petroleum, Inc.

Well Sommers No. 2

Field Plum Grove South

County Butler State Kansas

Location 3922' FSL & 2970' FEL

Sec: 27 Twp: 24 S Rge: 4 E

Permanent Datum Ground Level Elevation 1369

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation

K.B. 1378

D.F. 1369

Other Services

CNL/CDL

Date 8/3/2011

Run Number One

Depth Driller 2619

Depth Logger 2619

Bottom Logged Interval 2618

Top Log Interval 200

Casing Driller 8.625 @ 212

Casing Logger 219

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL N/A

Density / Viscosity N/A

pH / Fluid Loss N/A

Source of Sample Flowline

Rm @ Meas. Temp .91 @ 90

Rmf @ Meas. Temp .68 @ 90

Rmc @ Meas. Temp 1.23 @ 90

Source of Rmf / Rmc Charts

Rm @ BHT .80 @ 102

Operating Rig Time 2 1/2 Hours

Max Rec. Temp. F 102

Equipment Number 10

Location Hays

Recorded By D.Kerr

Witnessed By Jerry Honas

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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

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(785) 625-3858

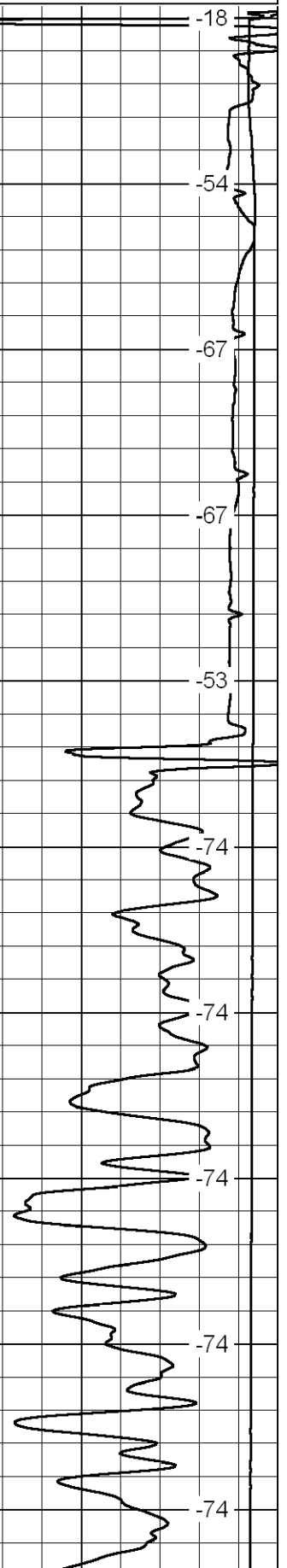
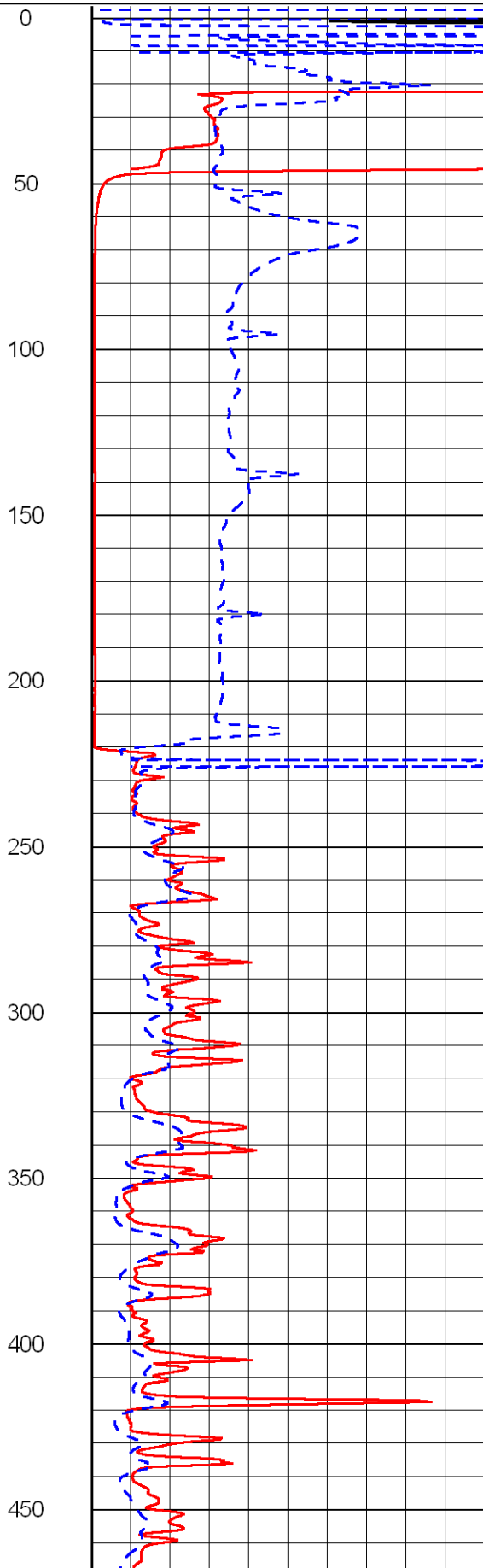
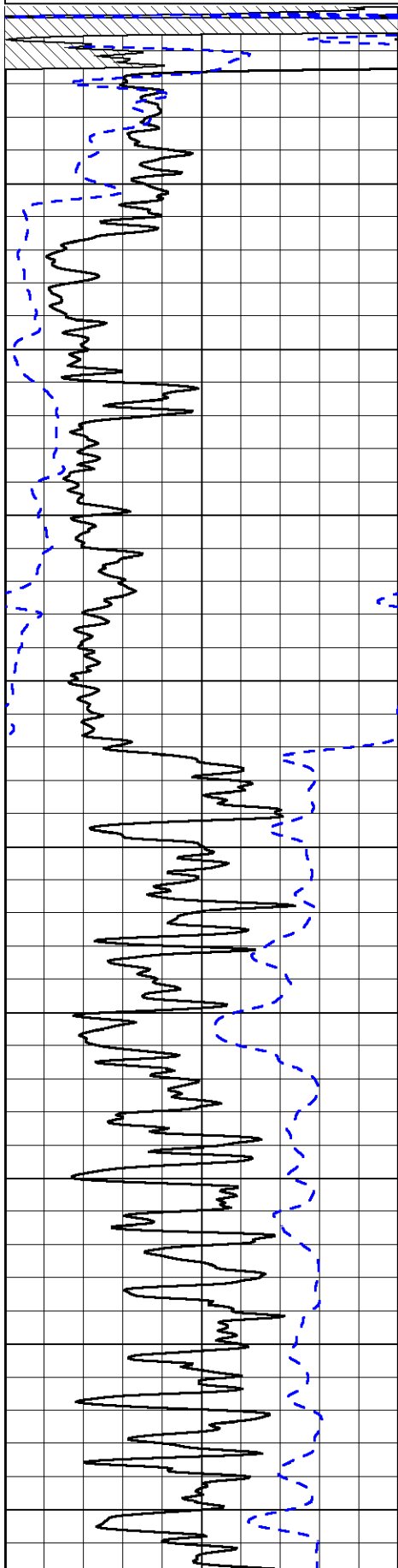
Potwin KS, 1/2 East to River Valley RD,
1/2 North, 1 1/4 East, South Into

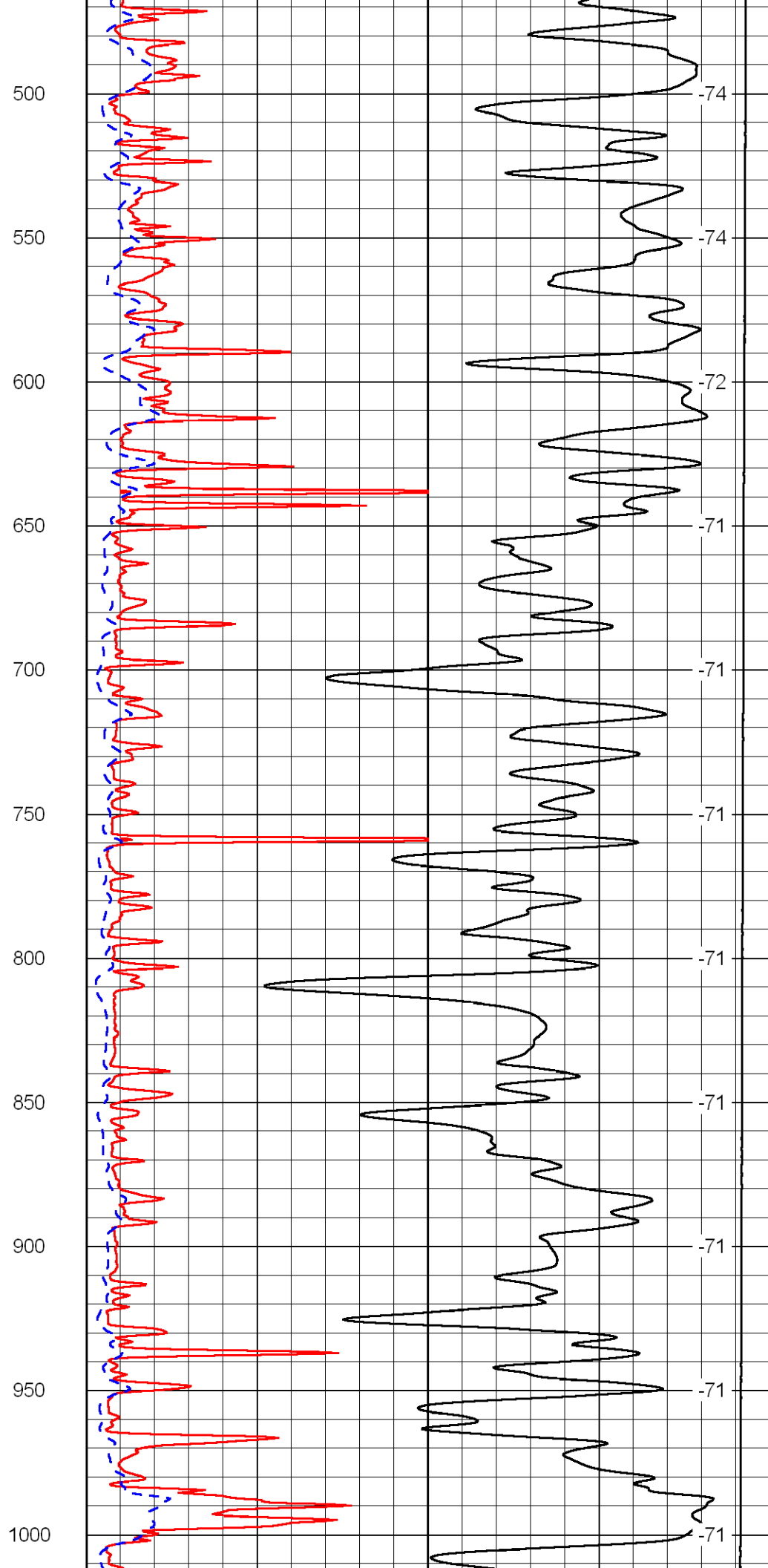
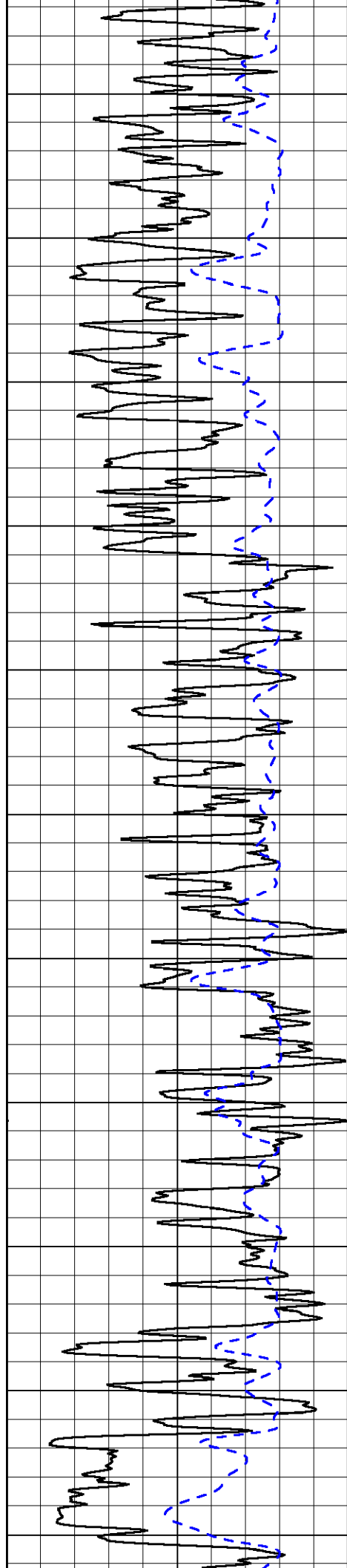
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Dataset Pathname: dil/nobstk
Presentation Format: dil2in
Dataset Creation: Wed Aug 03 16:05:36 2011
Charted by: Depth in Feet scaled 1:600

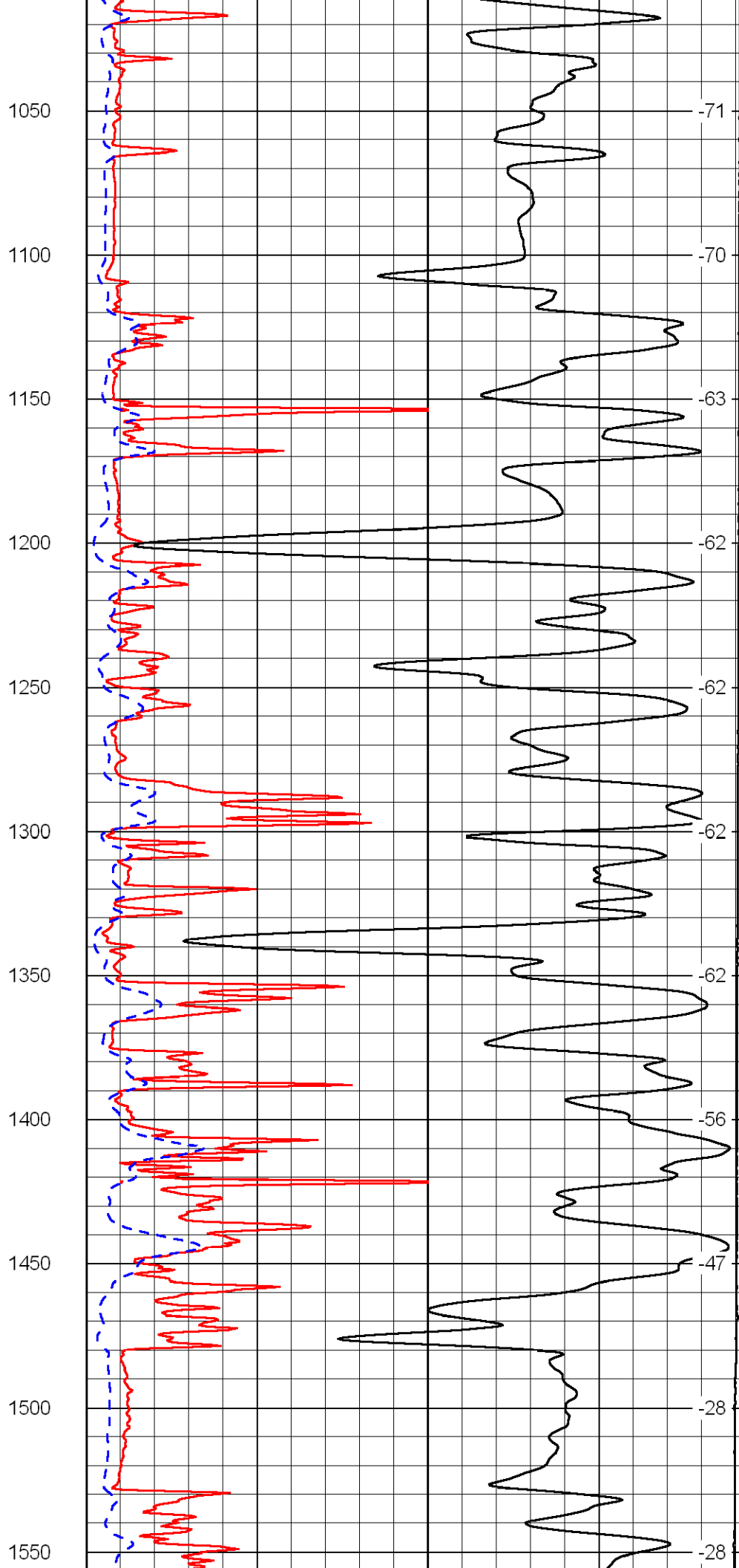
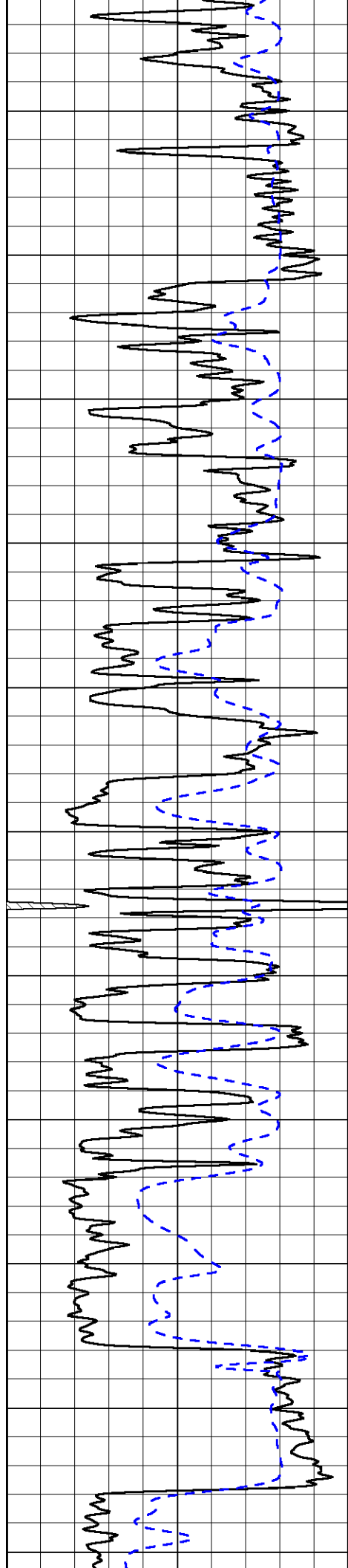
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-200	SP	0

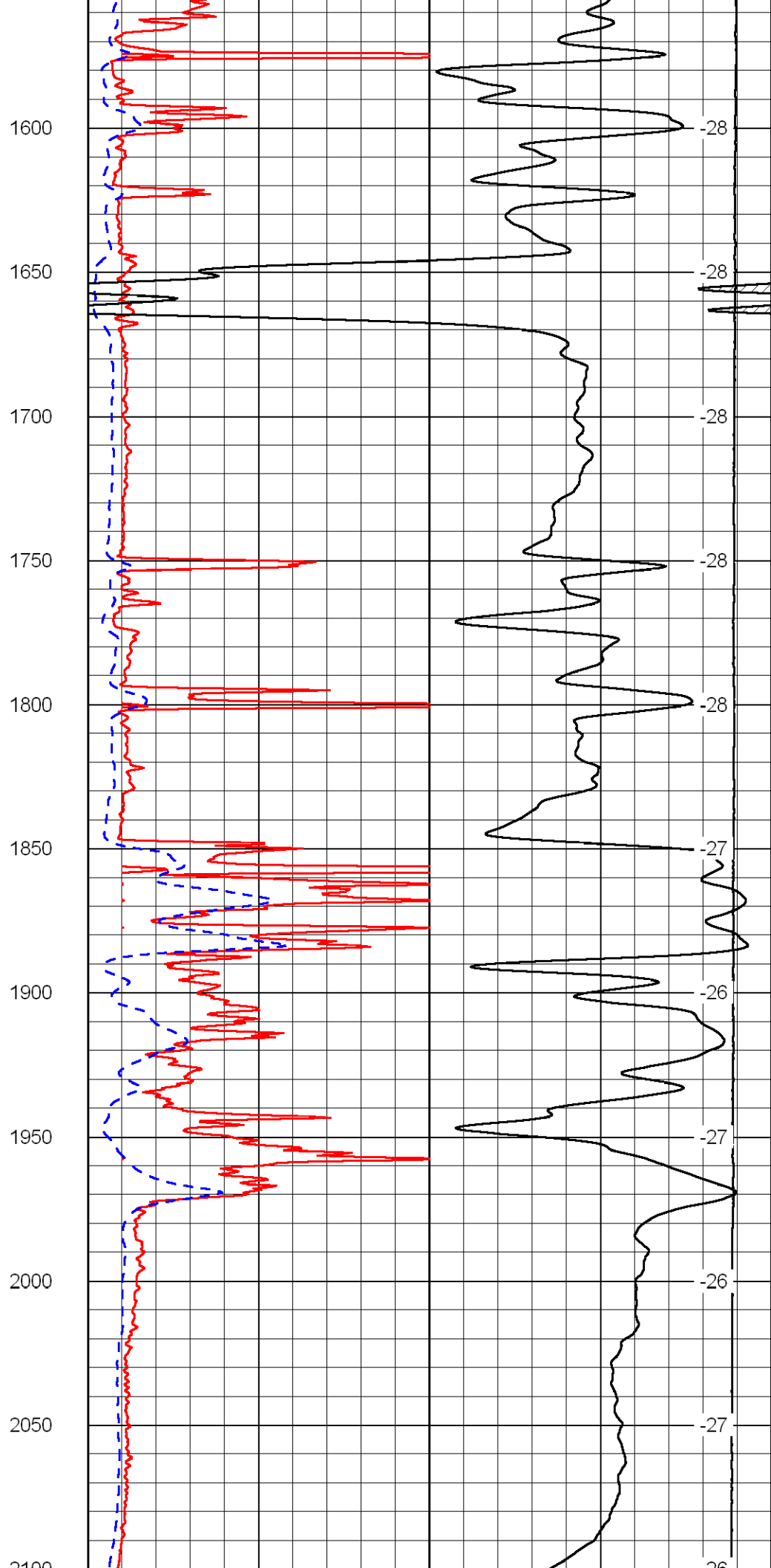
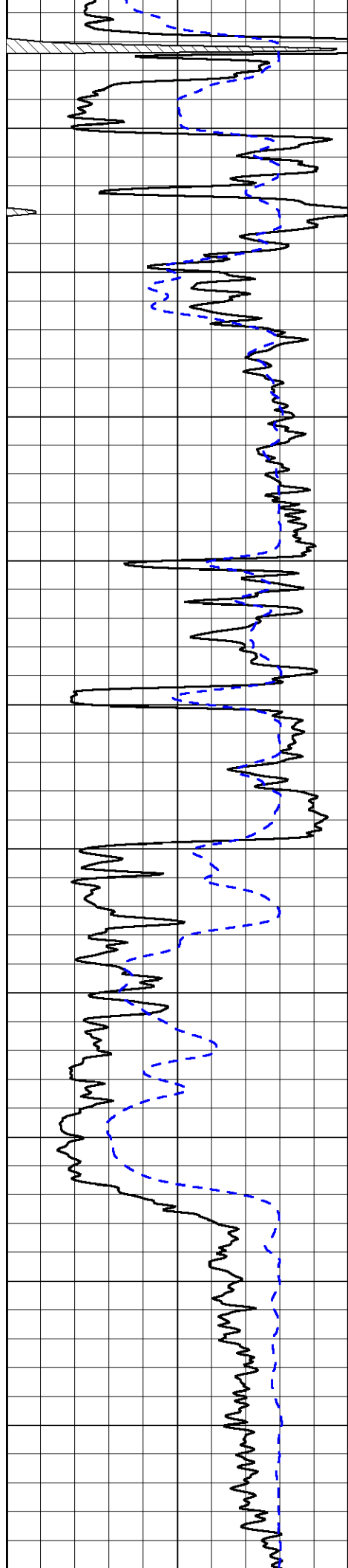
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0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

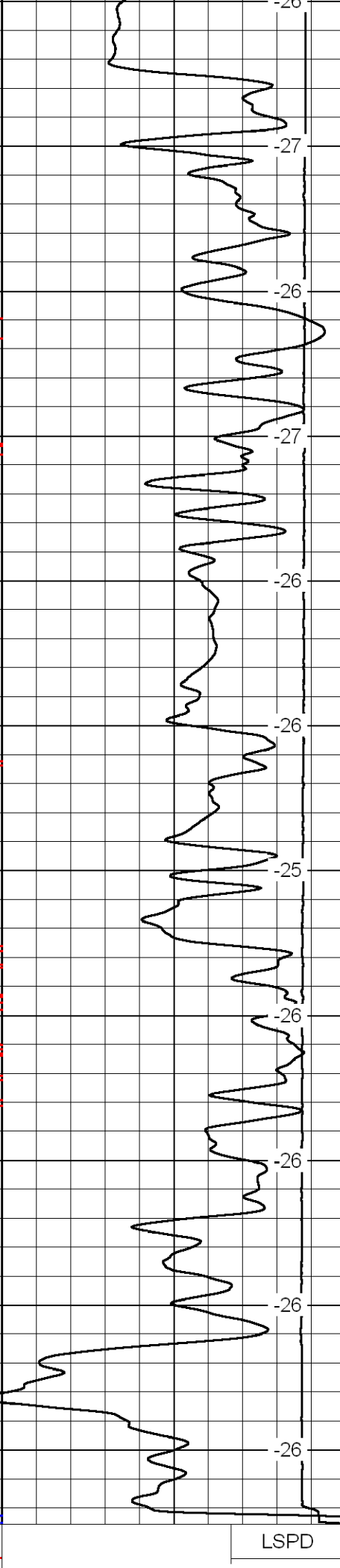
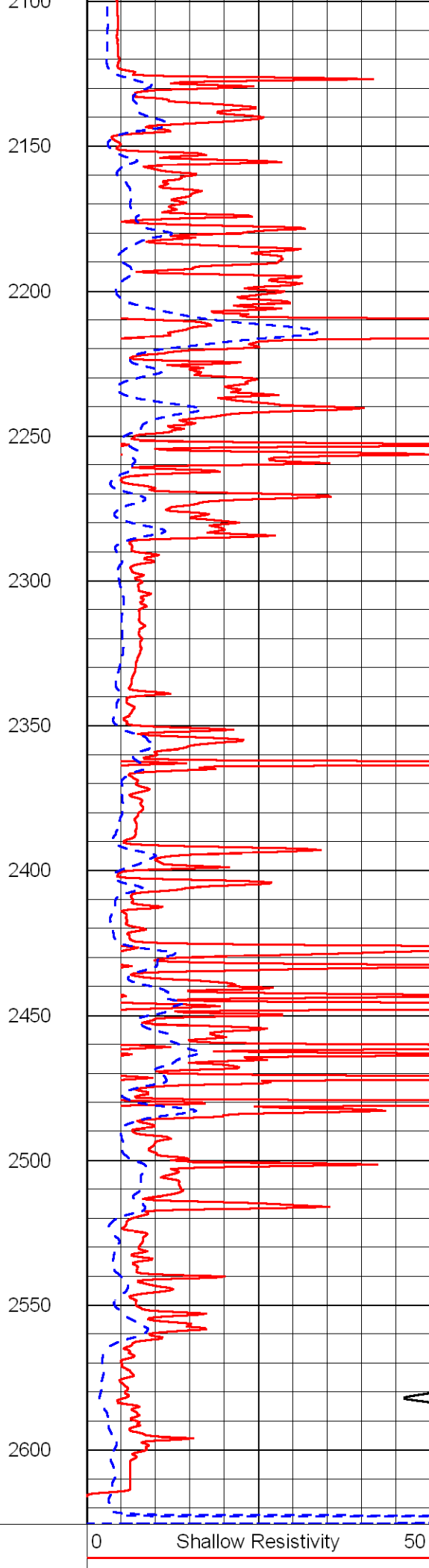
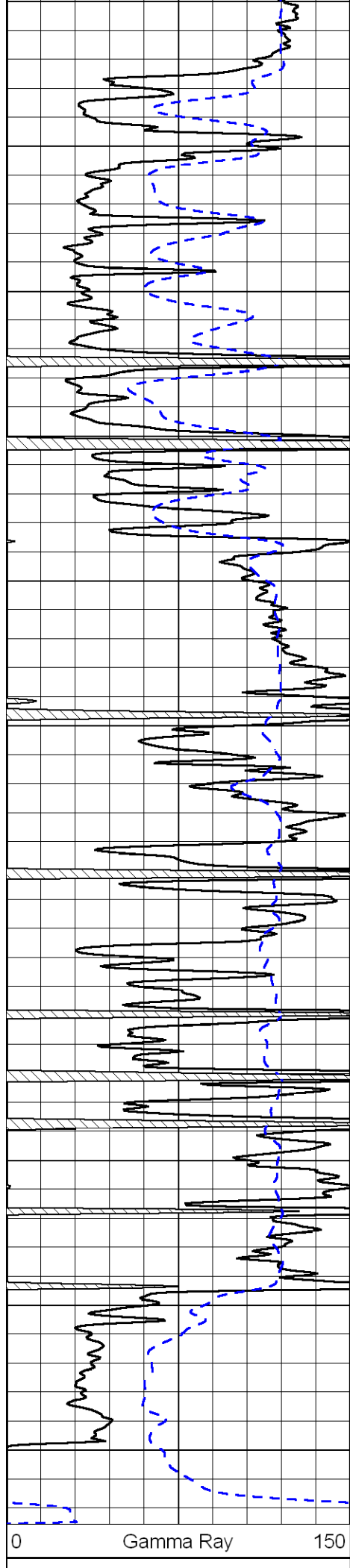
LSPD







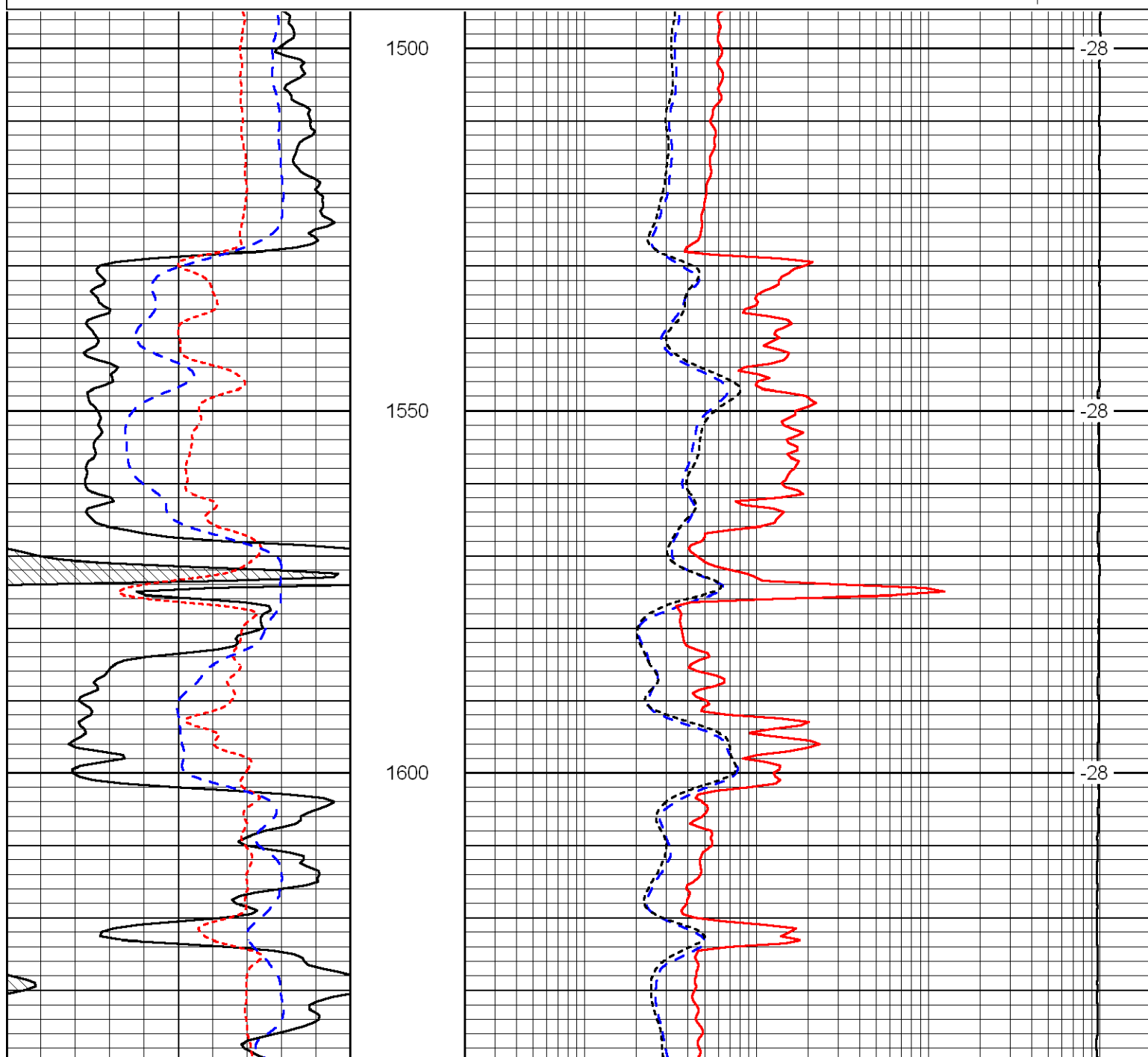


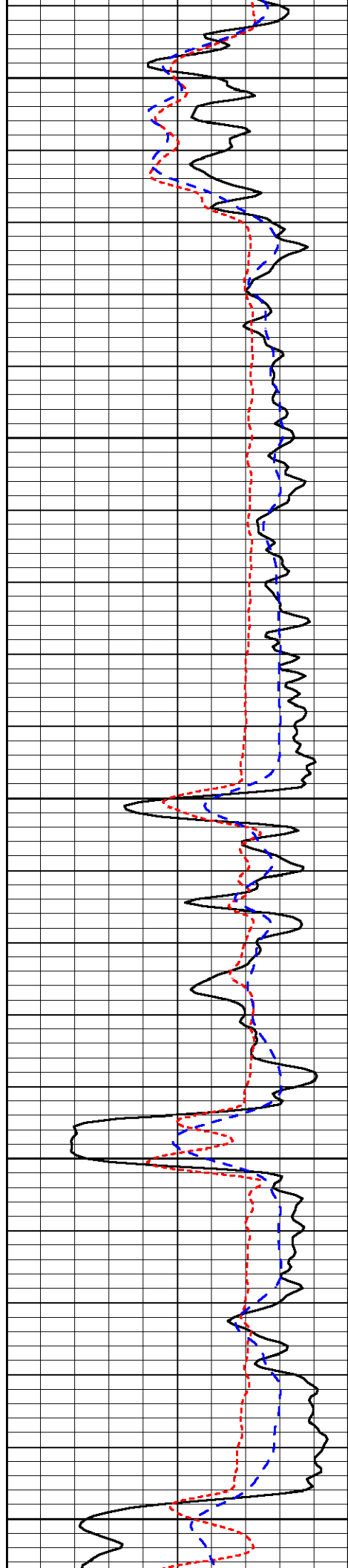


200	SP	0
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

Database File: noble_sommers_2hd.db
 Dataset Pathname: dil/nobstk
 Presentation Format: dil
 Dataset Creation: Wed Aug 03 16:05:36 2011
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0
LSPD		





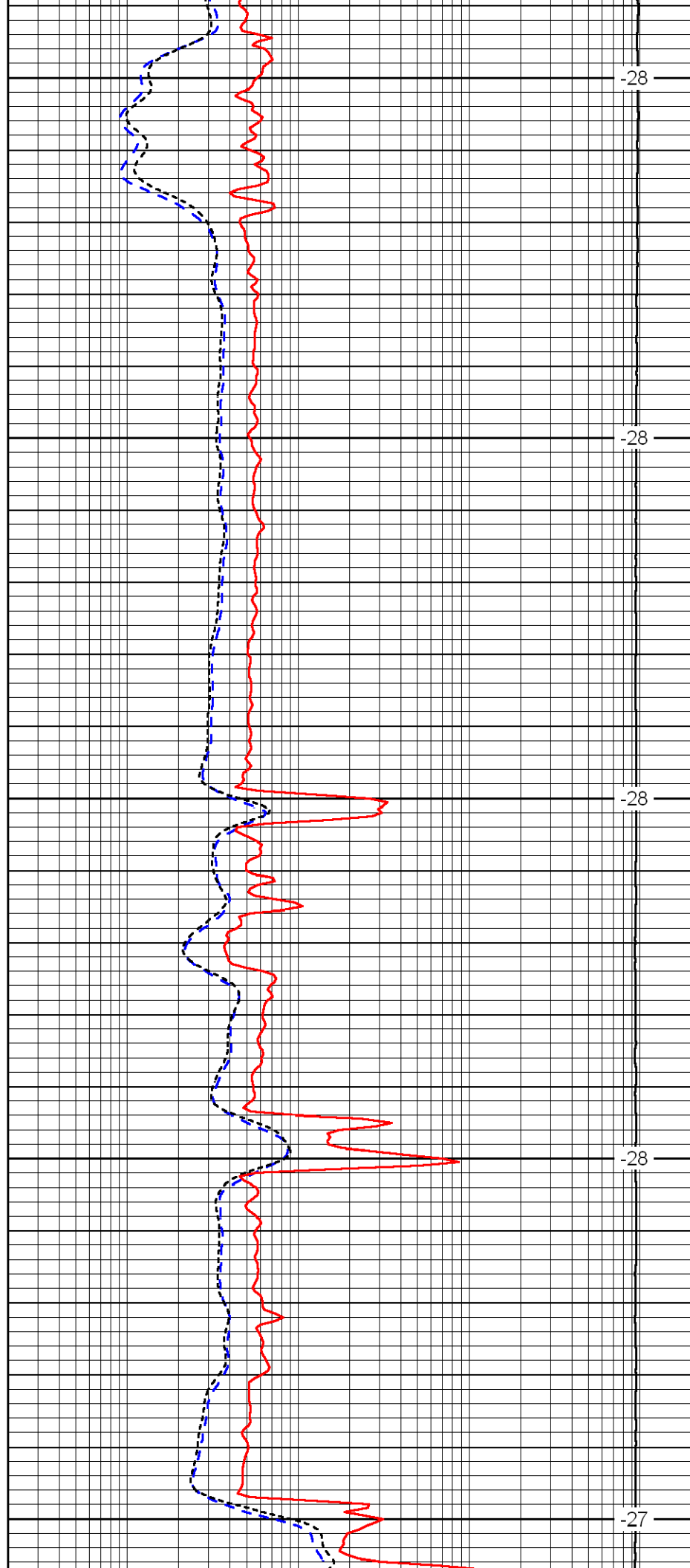
1650

1700

1750

1800

1850



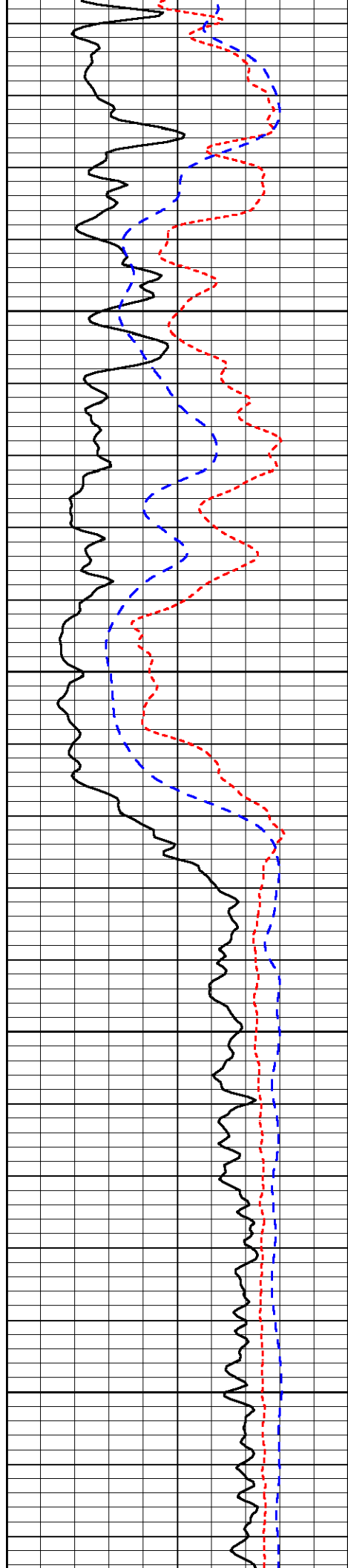
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-28

-28

-28

-27

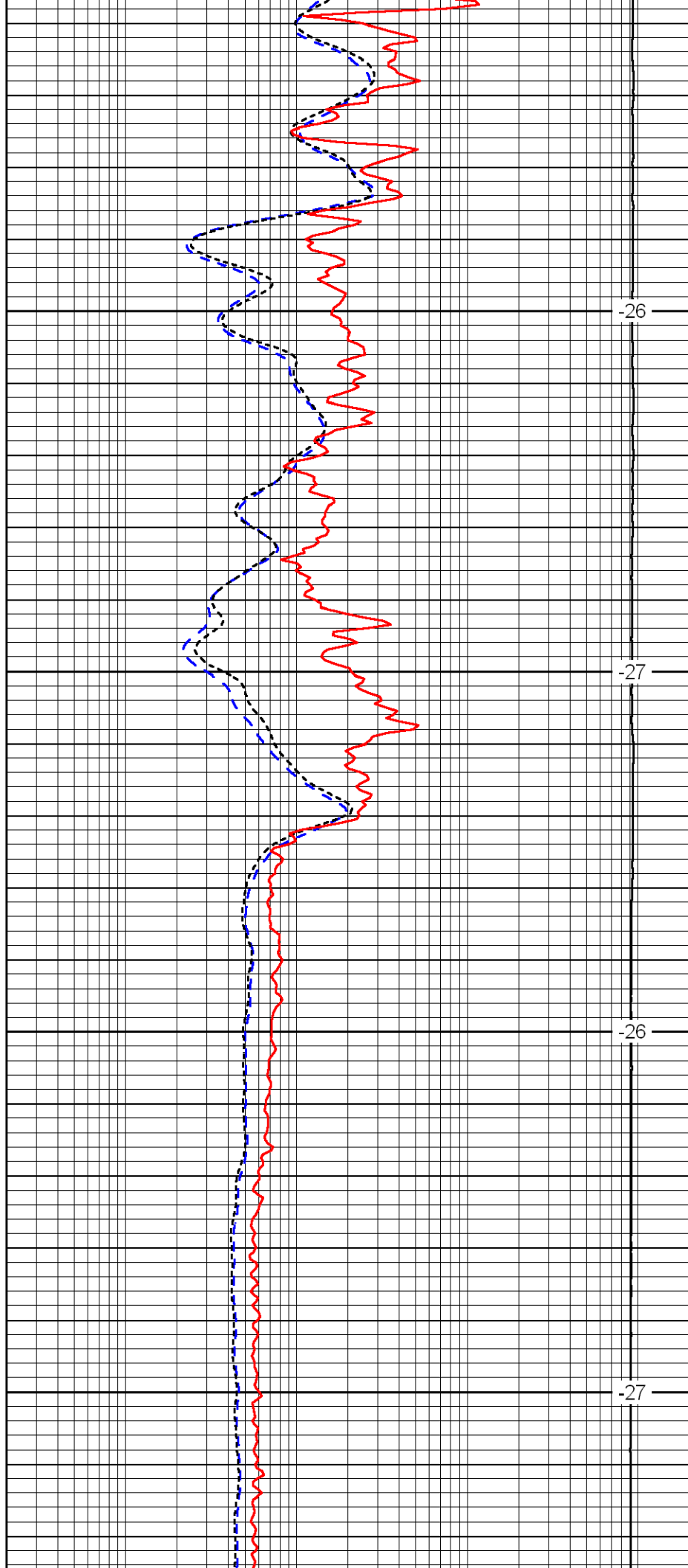


1900

1950

2000

2050

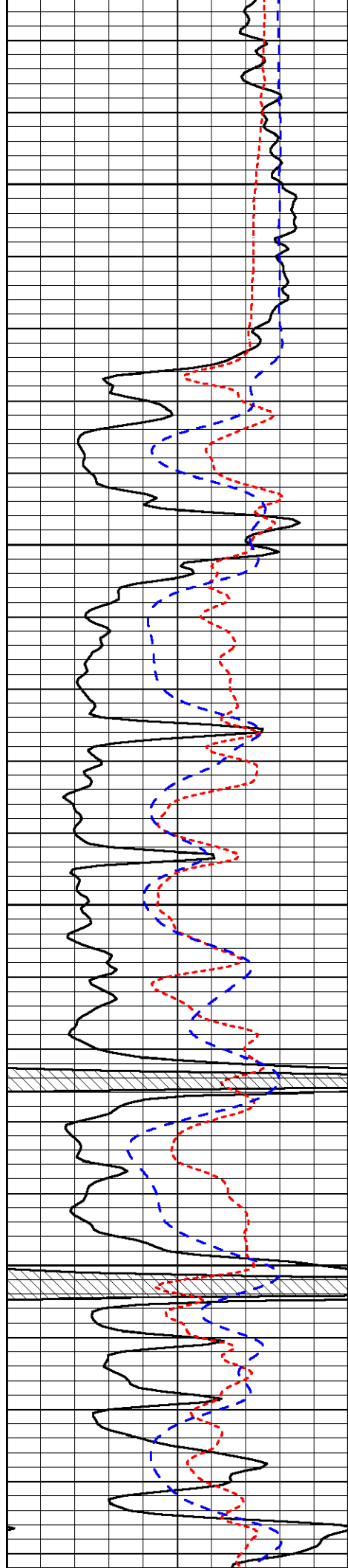


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-27

-26

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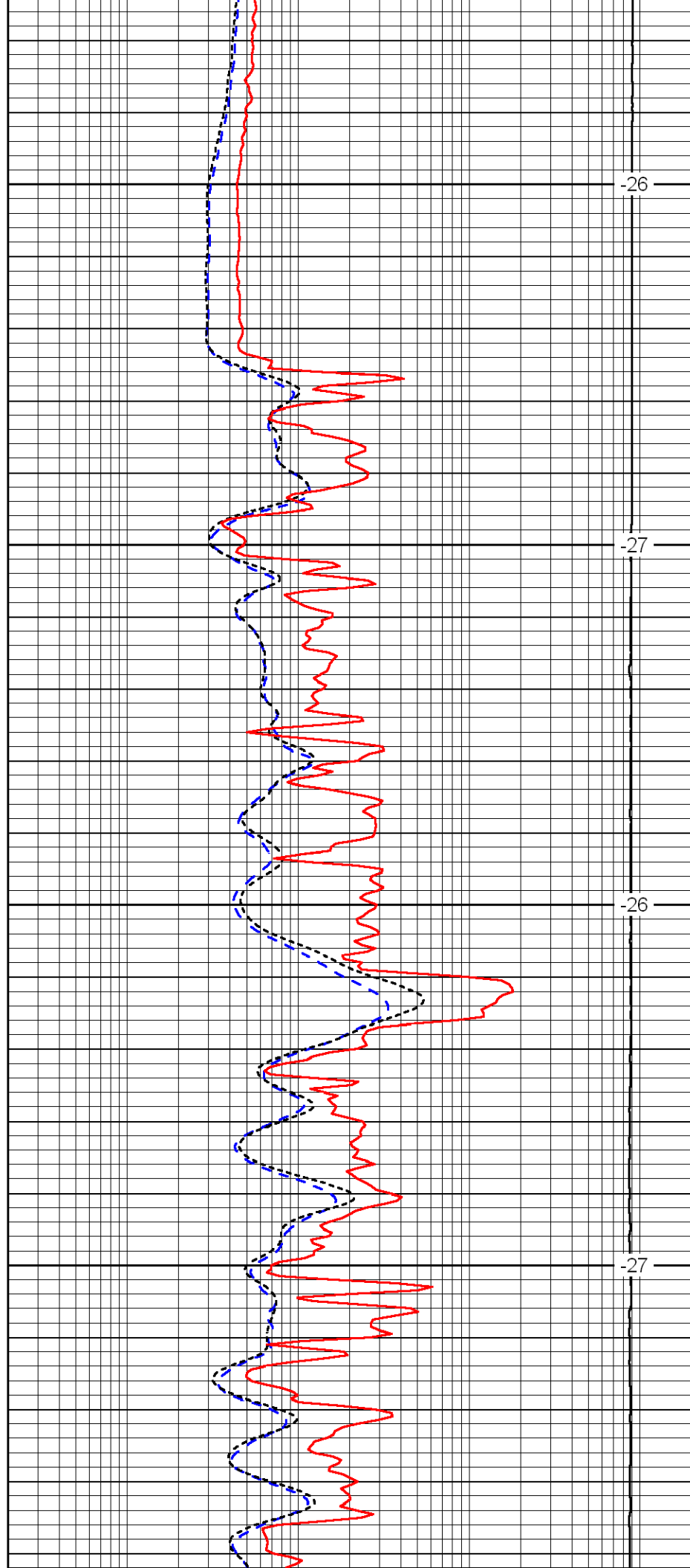


2100

2150

2200

2250

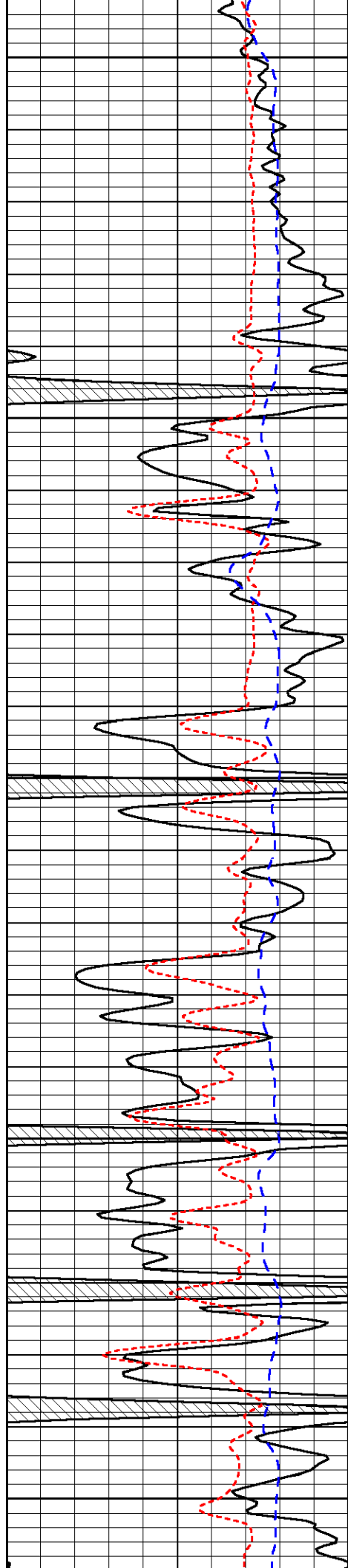


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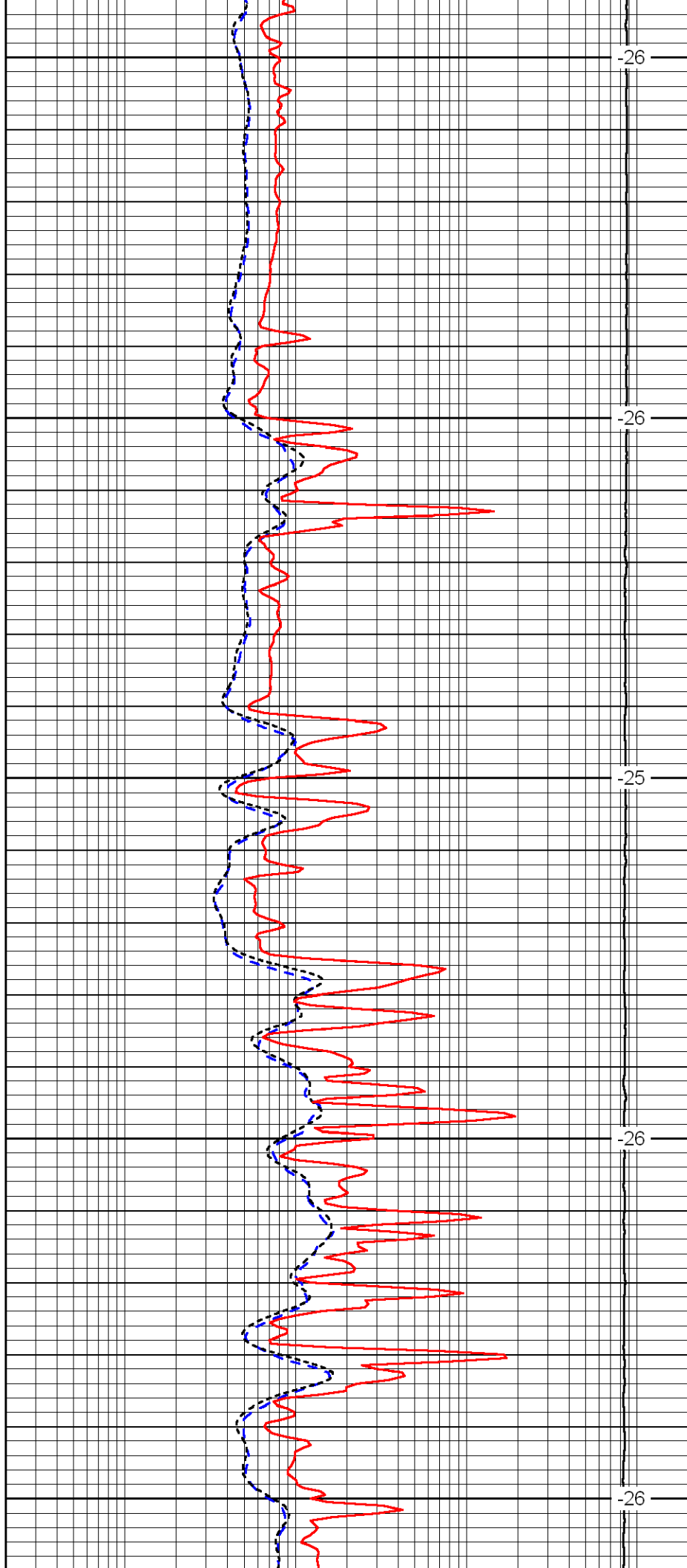
2300

2350

2400

2450

2500



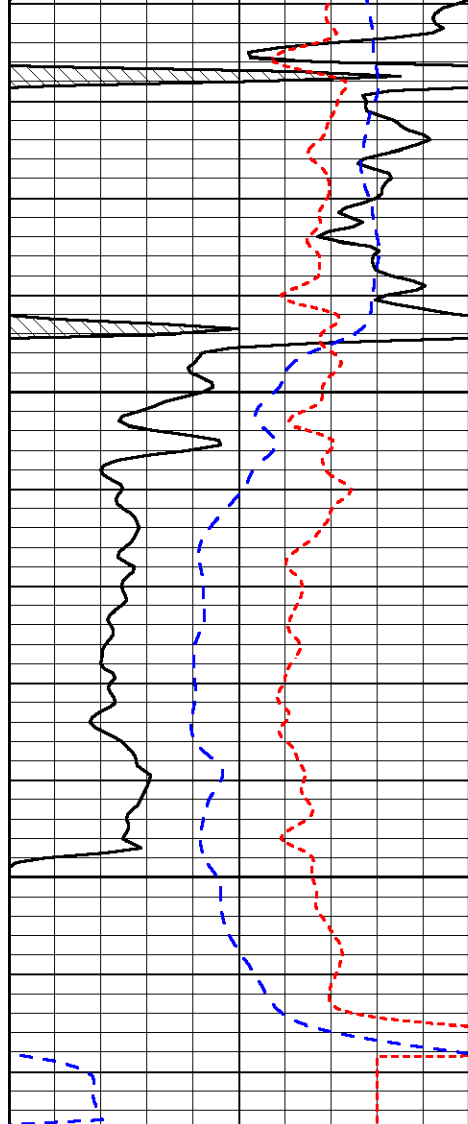
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-26

-25

-26

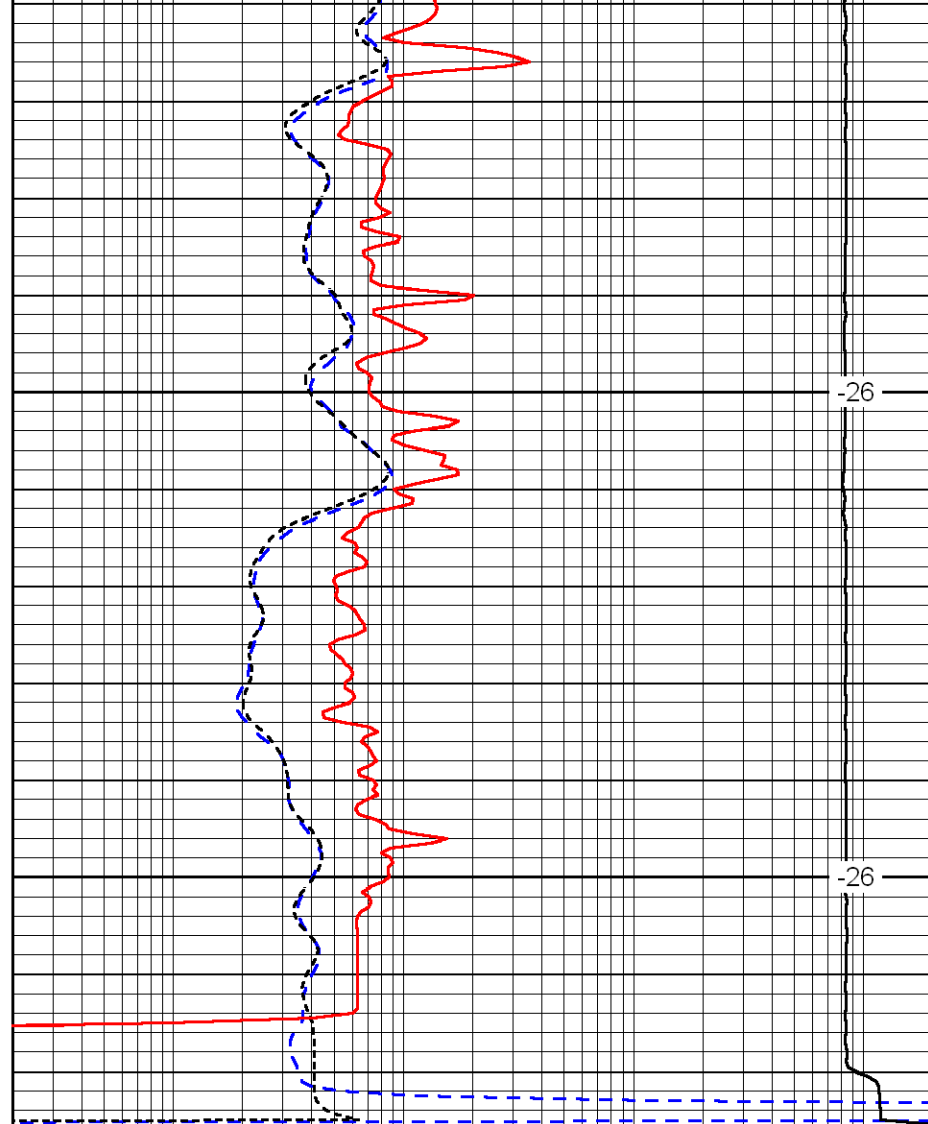
-26



0	Gamma Ray	150
-160	RXO/RT	40
-200	SP	0

2550

2600



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD