



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-079-20708-00-00

Company **Howell Oil Company, Inc.**

Well **Pizinger # 8**

Field **Burton**

County **Harvey** State **Kansas**

Location

1650' FNL & 2210' FWL

Other Services
DIL

Sec: **18** Twp: **23 S** Rge: **3 W**

Permanent Datum **Ground Level** Elevation **1467**

Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Elevation

K.B. **1475**

D.F. **1467**

G.L. **1467**

Date **11/10/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **3950**

Depth Logger **3949**

Bottom Logged Interval **3928**

Top Logged Interval **2300**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **2,100**

Density **9.1**

Level **Full**

Max. Rec. Temp. F **115**

Operating Rig Time **3 Hours**

Equipment -- Location **15 Hays**

Recorded By **Y. Ruiz**

Witnessed By **Terry McLeod**

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

To

1

12.25

00

304

304

8.625

24#

00

304

2

7.875

304

3950

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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.

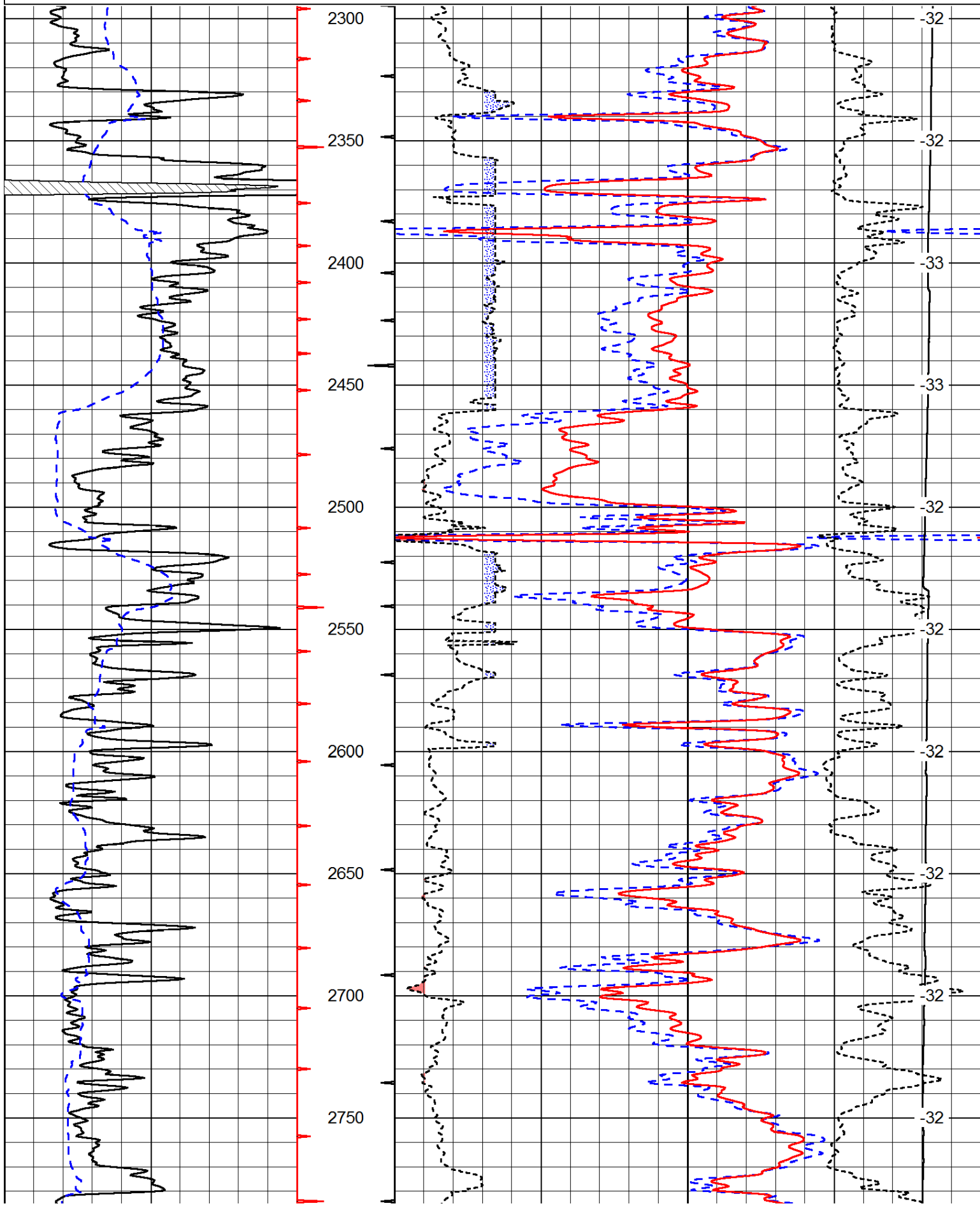
Comments

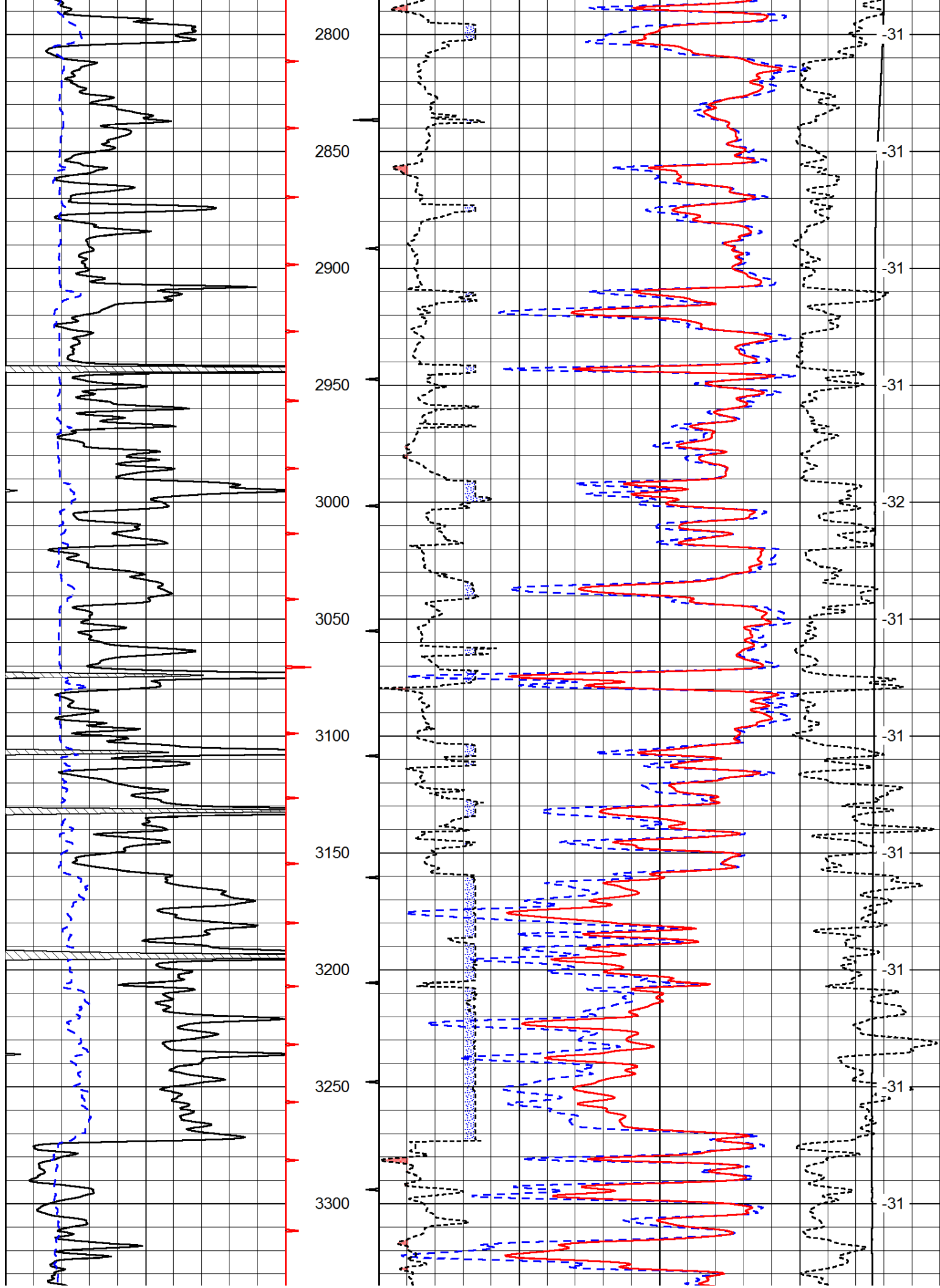
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Hutchinson,
East to County Line, 2 North, 2/3 East,
South into

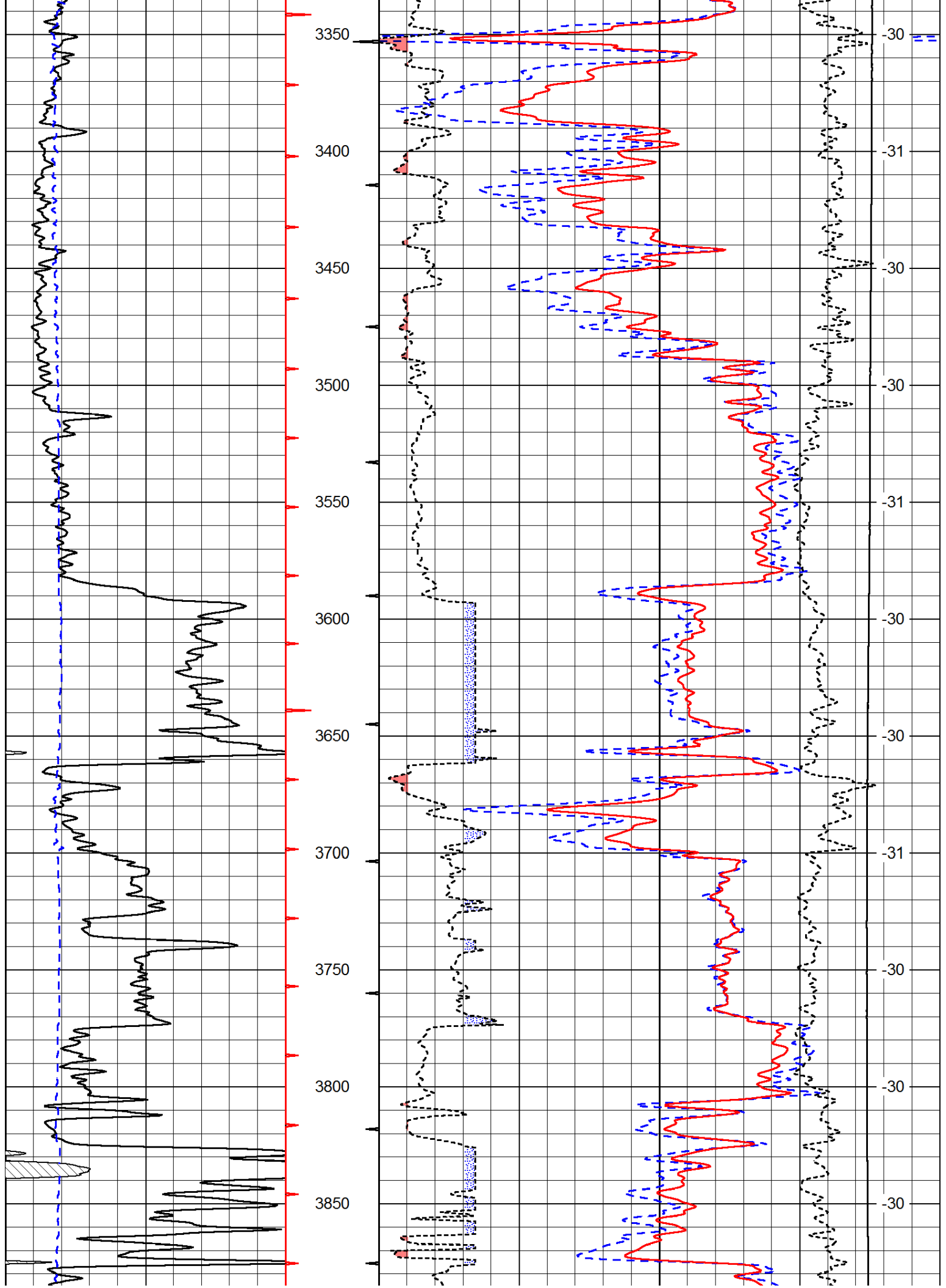
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Presentation Format: cdl
Dataset Creation: Mon Nov 10 16:11:50 2014
Charted by: Depth in Feet scaled 1:600

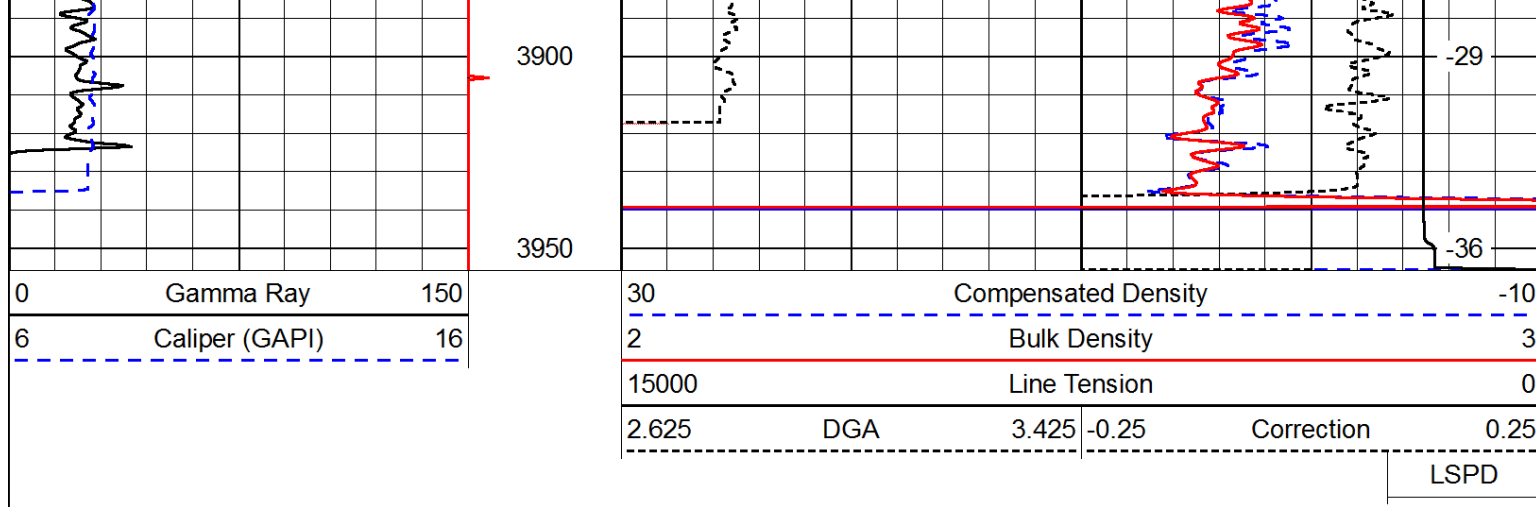
0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

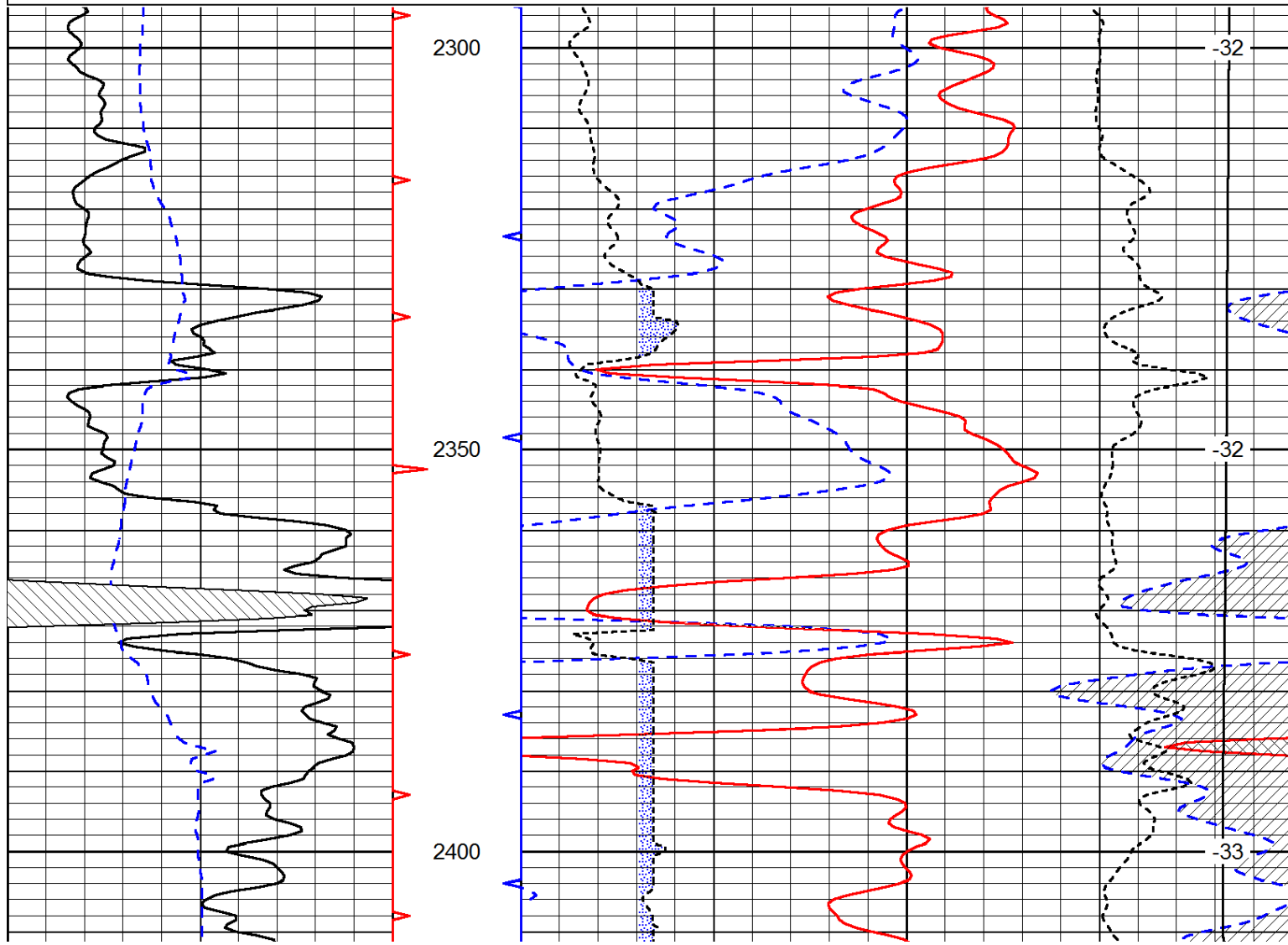
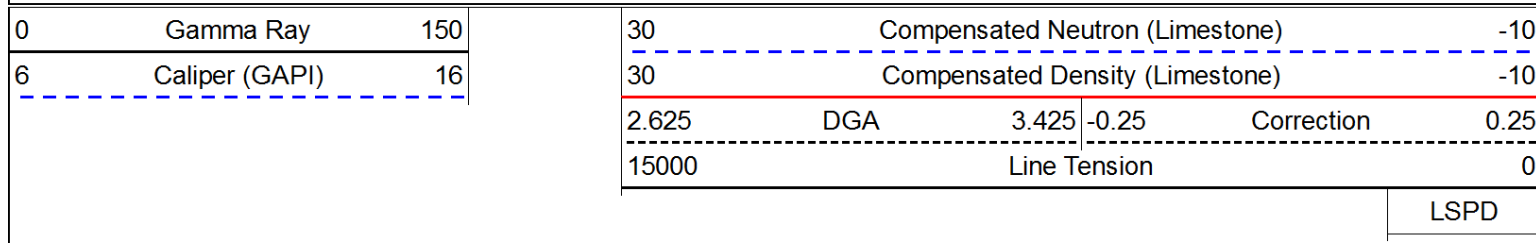


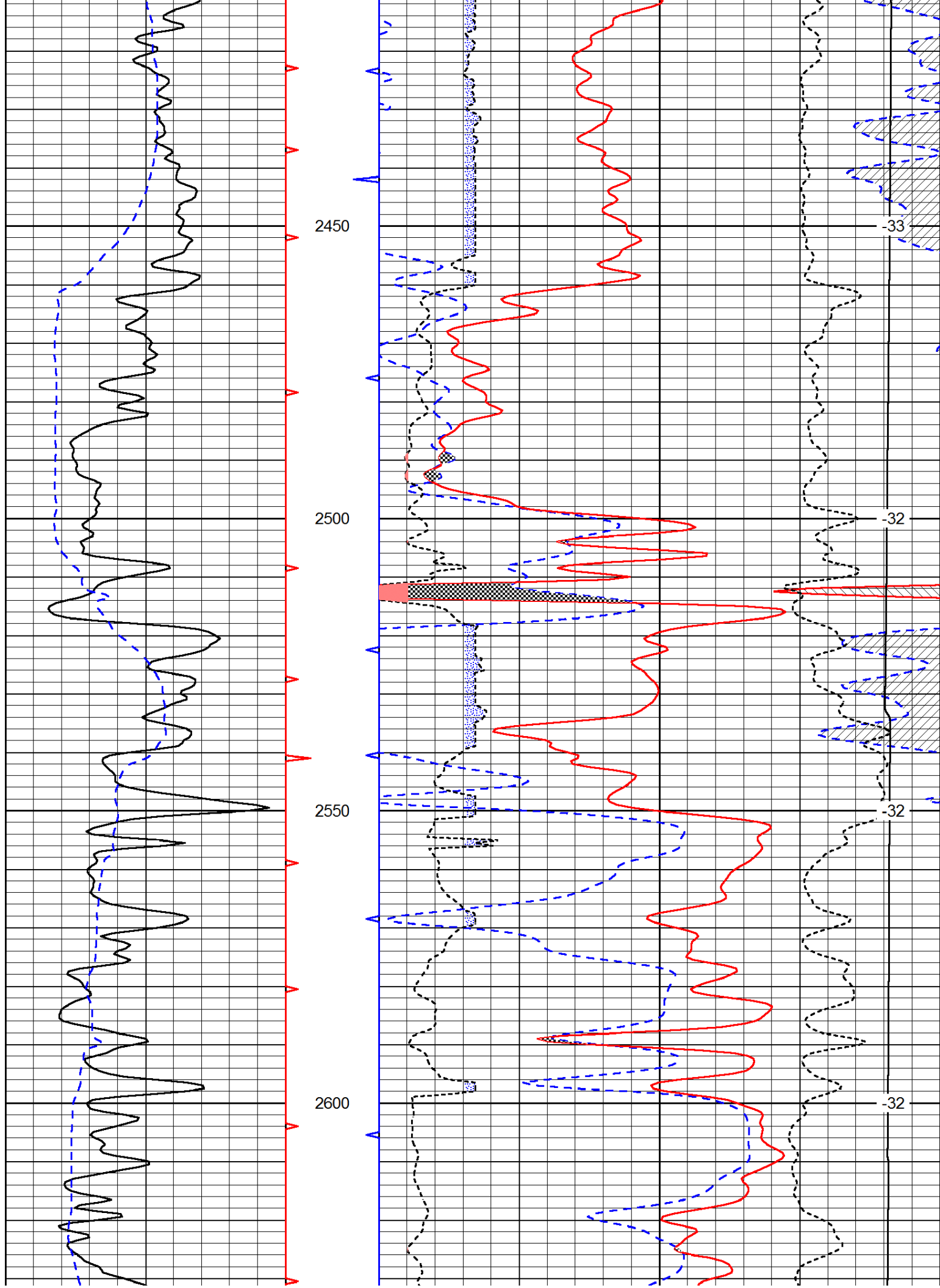


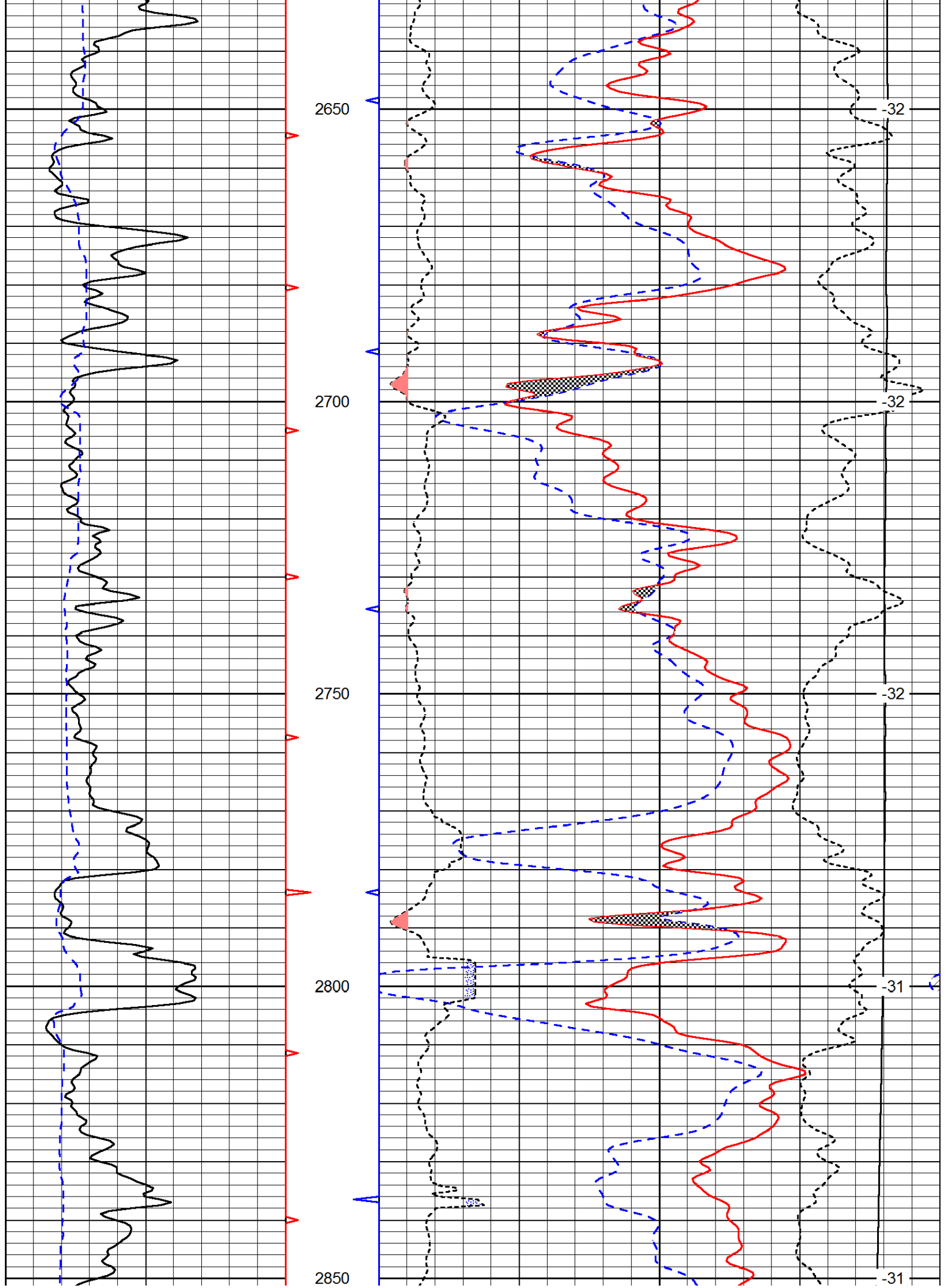


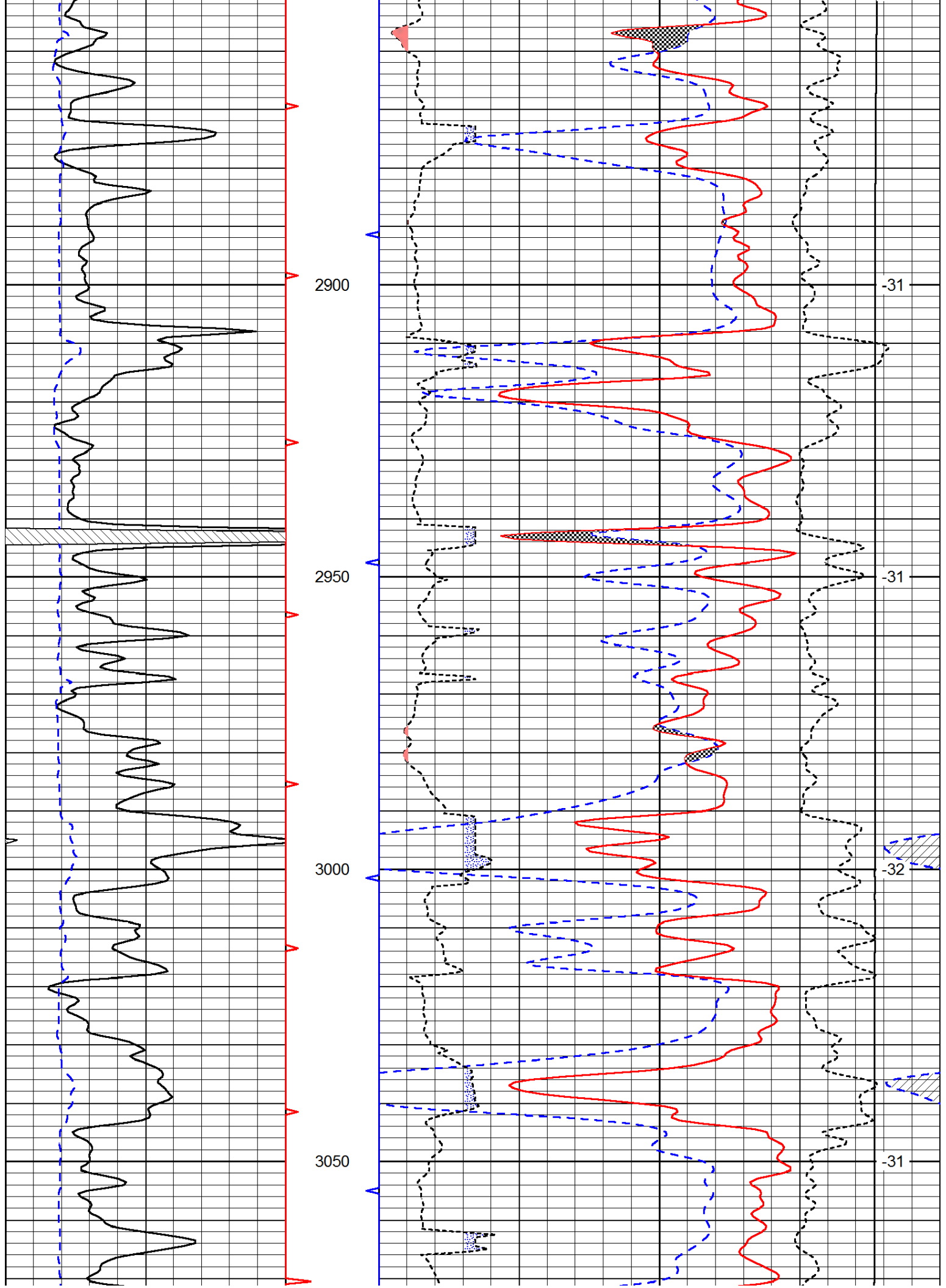


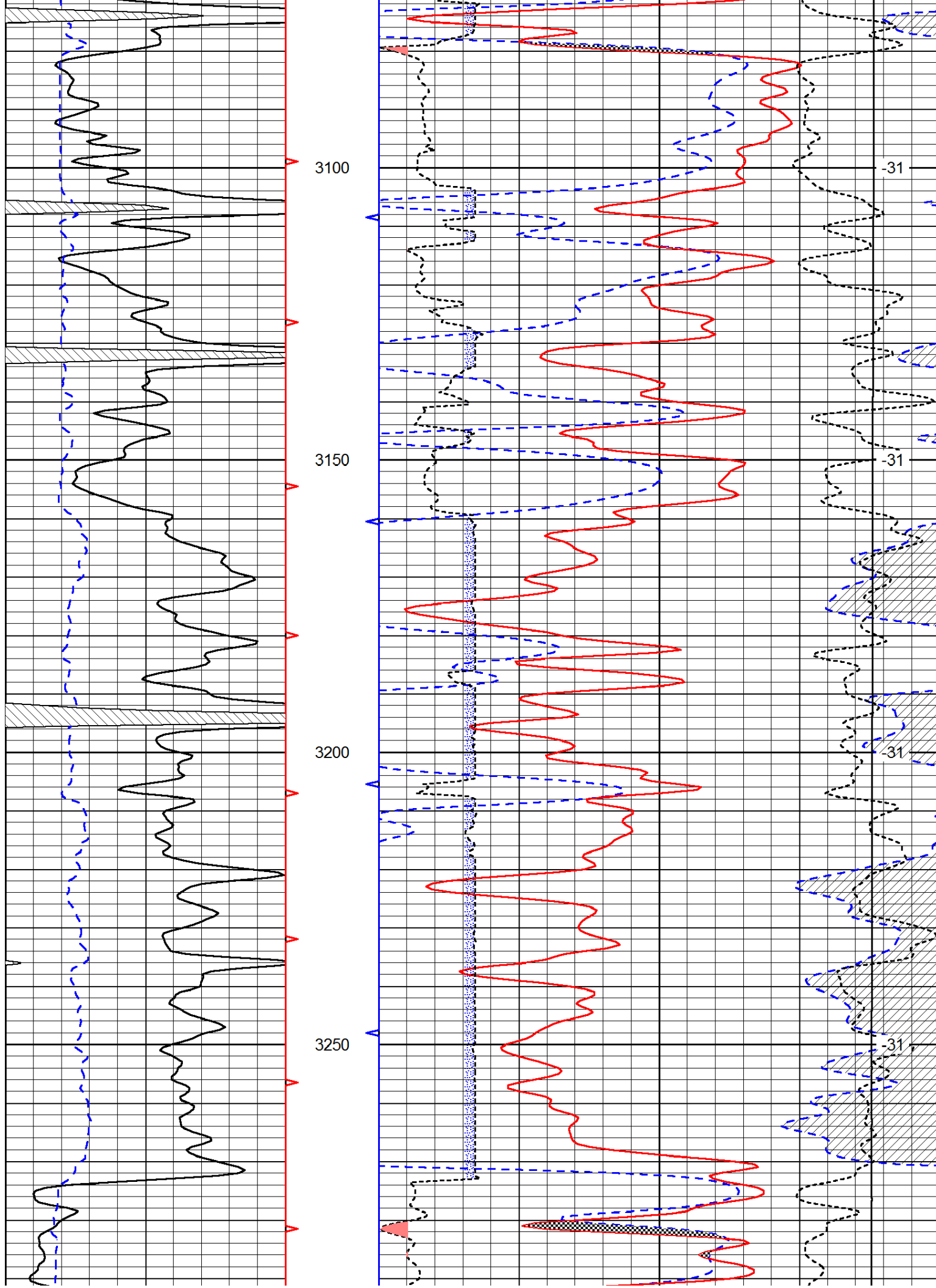
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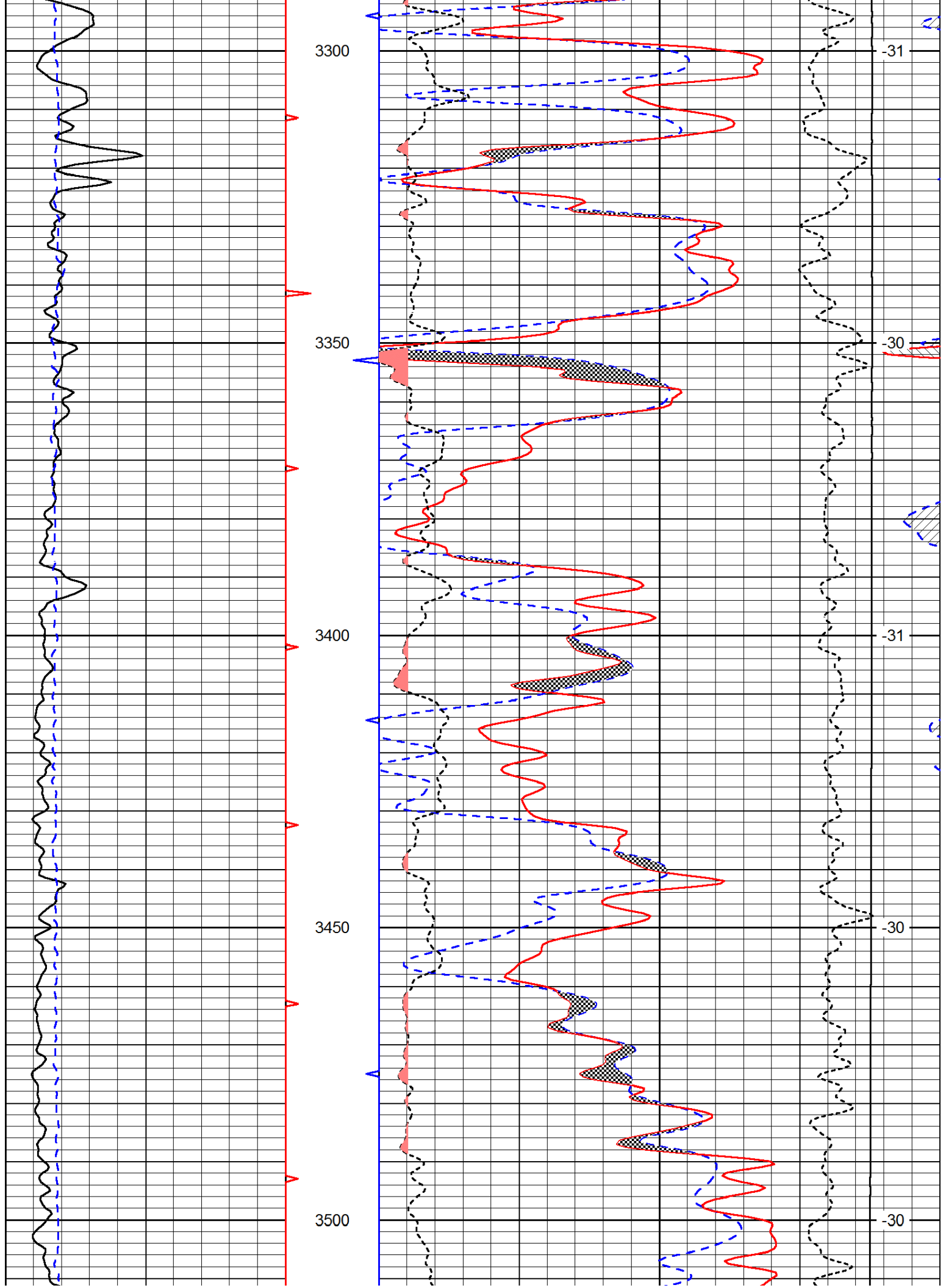


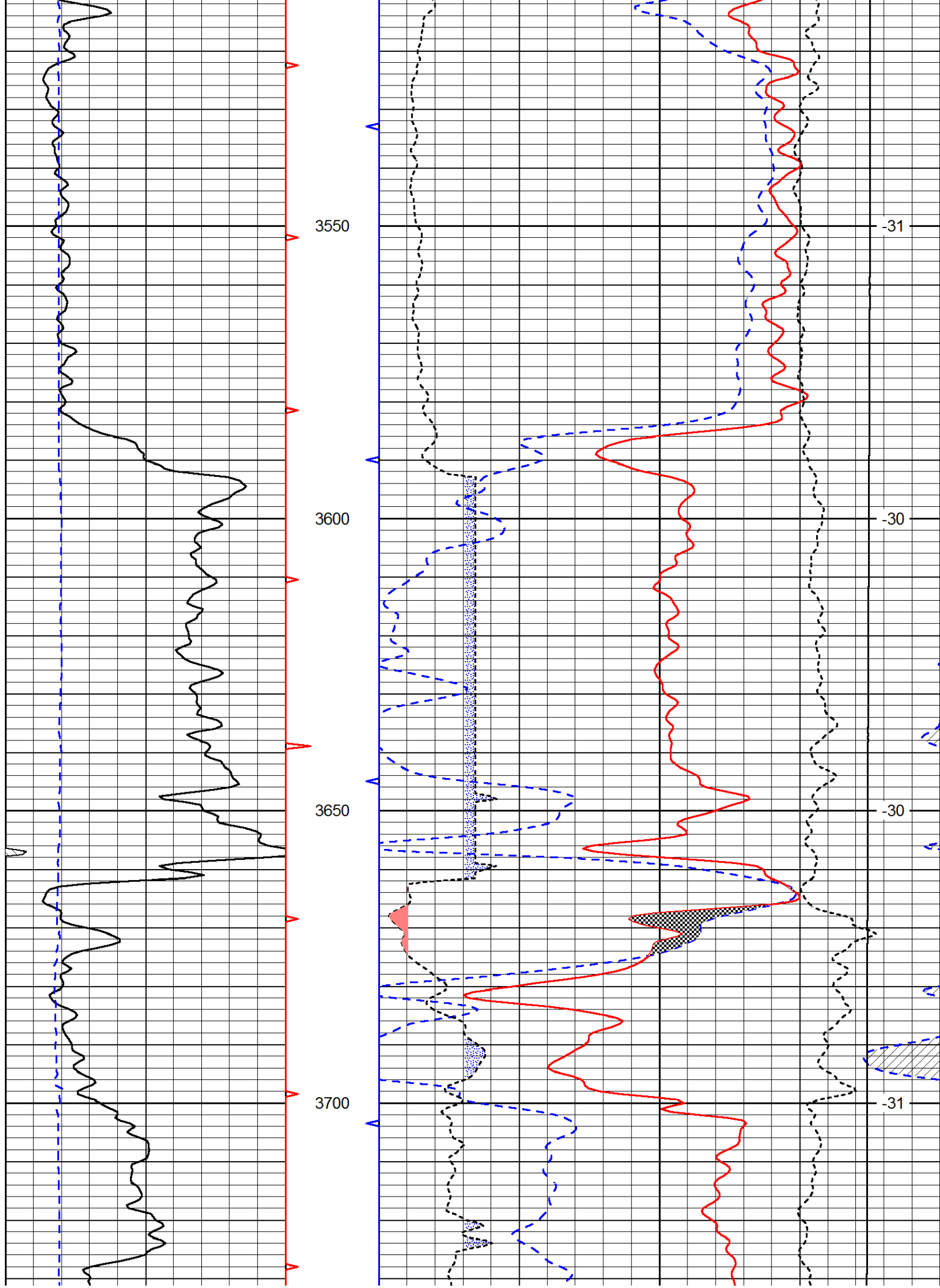


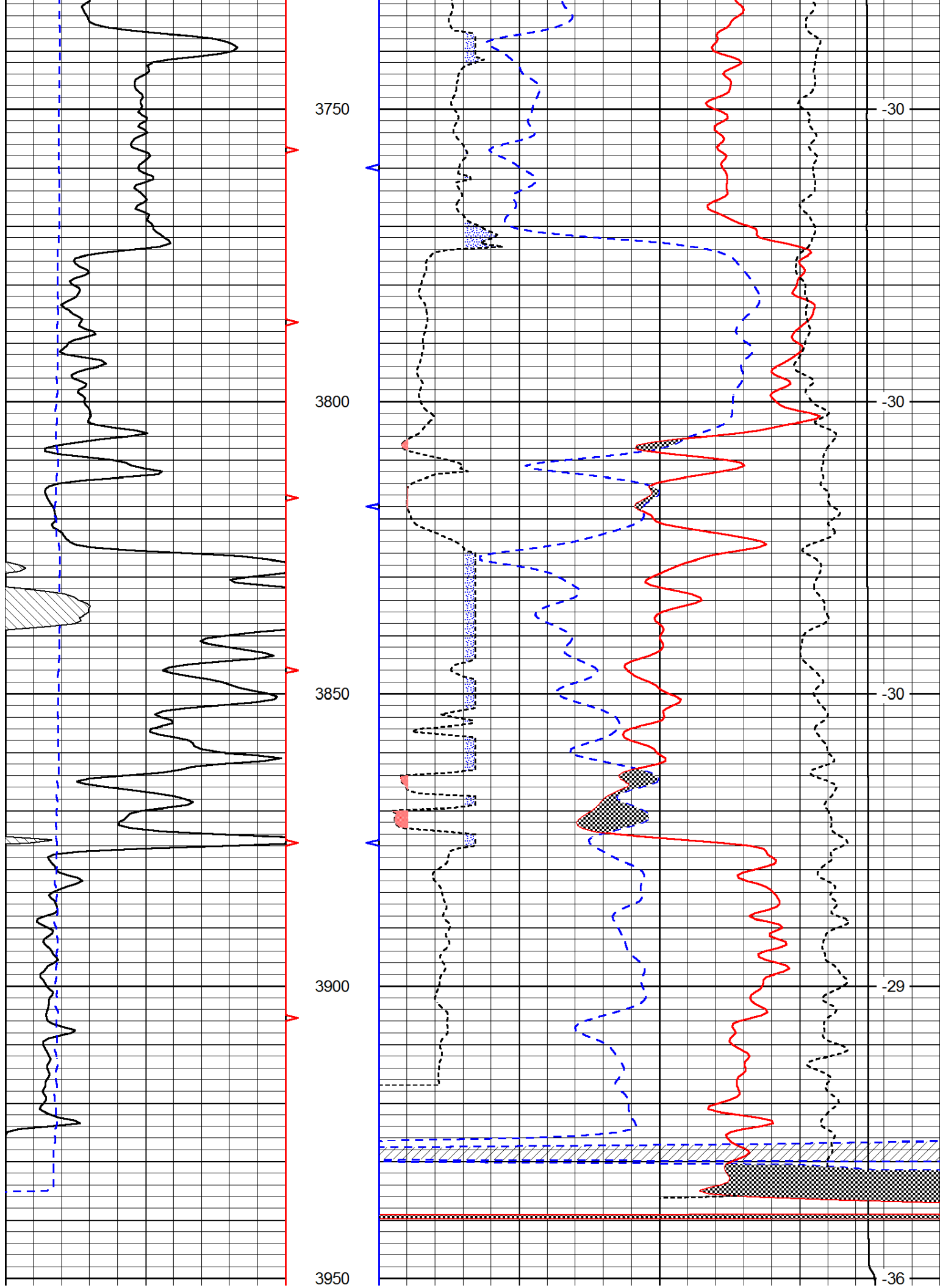












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