



Dual Compensated Porosity Log

DIGITAL LOG (785) 625-3858

API No.

15-109-21,008-00-00

Company Pioneer Resources

Well Knopp No. 2

Field Wildcat

County Logan

State Kansas

Location

2070' FSL & 2132' FEL

Other Services
DIL

Sec: 13 Twp: 14 S Rge: 32 W

Permanent Datum Ground Level Elevation 2812

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

K.B. 2817
D.F.
G.L. 2812

Date 6/8/2011

Run Number One

Type Log CNL / CDL

Depth Driller 4650

Depth Logger 4653

Bottom Logged Interval 4632

Top Logged Interval 3100

Type Fluid In Hole Chemical

Salinity, PPM CL 4,000

Density 9.3

Level Full

Max. Rec. Temp. F 123

Operating Rig Time 3 Hours

Equipment -- Location 15 Hays

Recorded By B. Becker

Witnessed By Steve Murphy

Borehole Record

Casing Record

Run No Bit From To Size Wgt. From To

One 12.25 00 219 8.625 23# 00 219

Two 7.875 219 TD

Comments

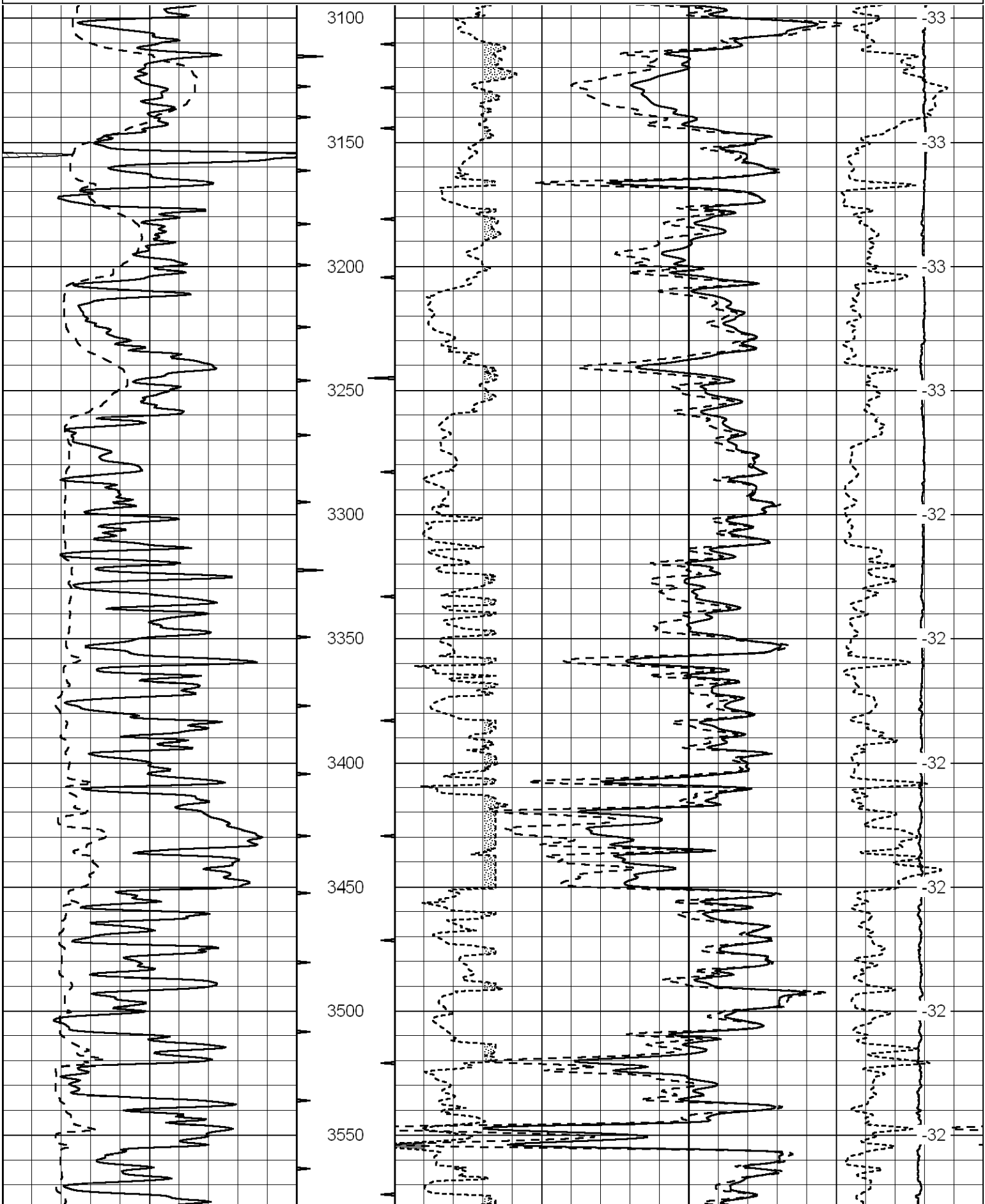
Thank you for using Log-Tech, Inc.
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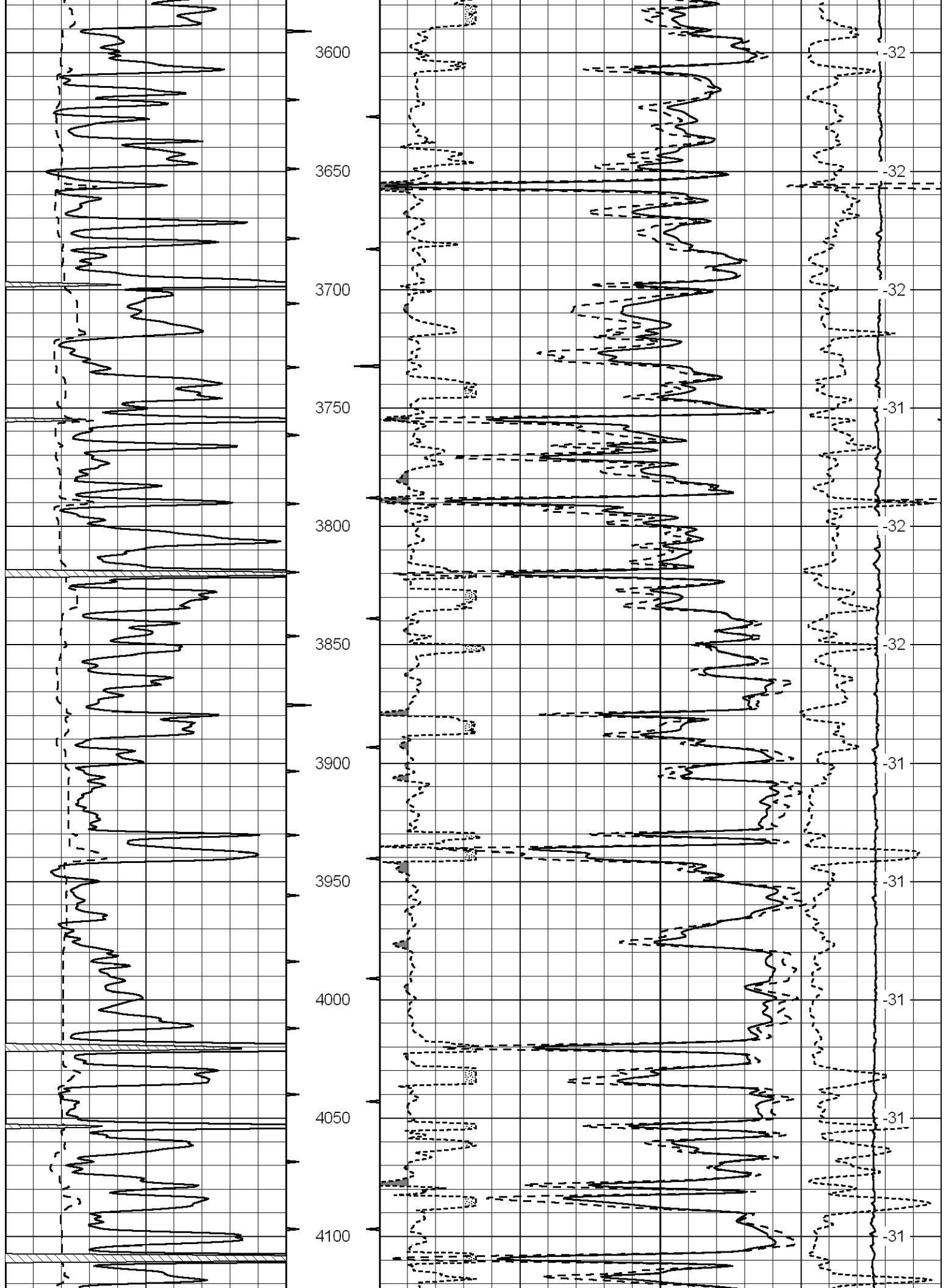
Oakley, Ks; 20 South to Jayhawk Rd;
1-3/4 East; North Into

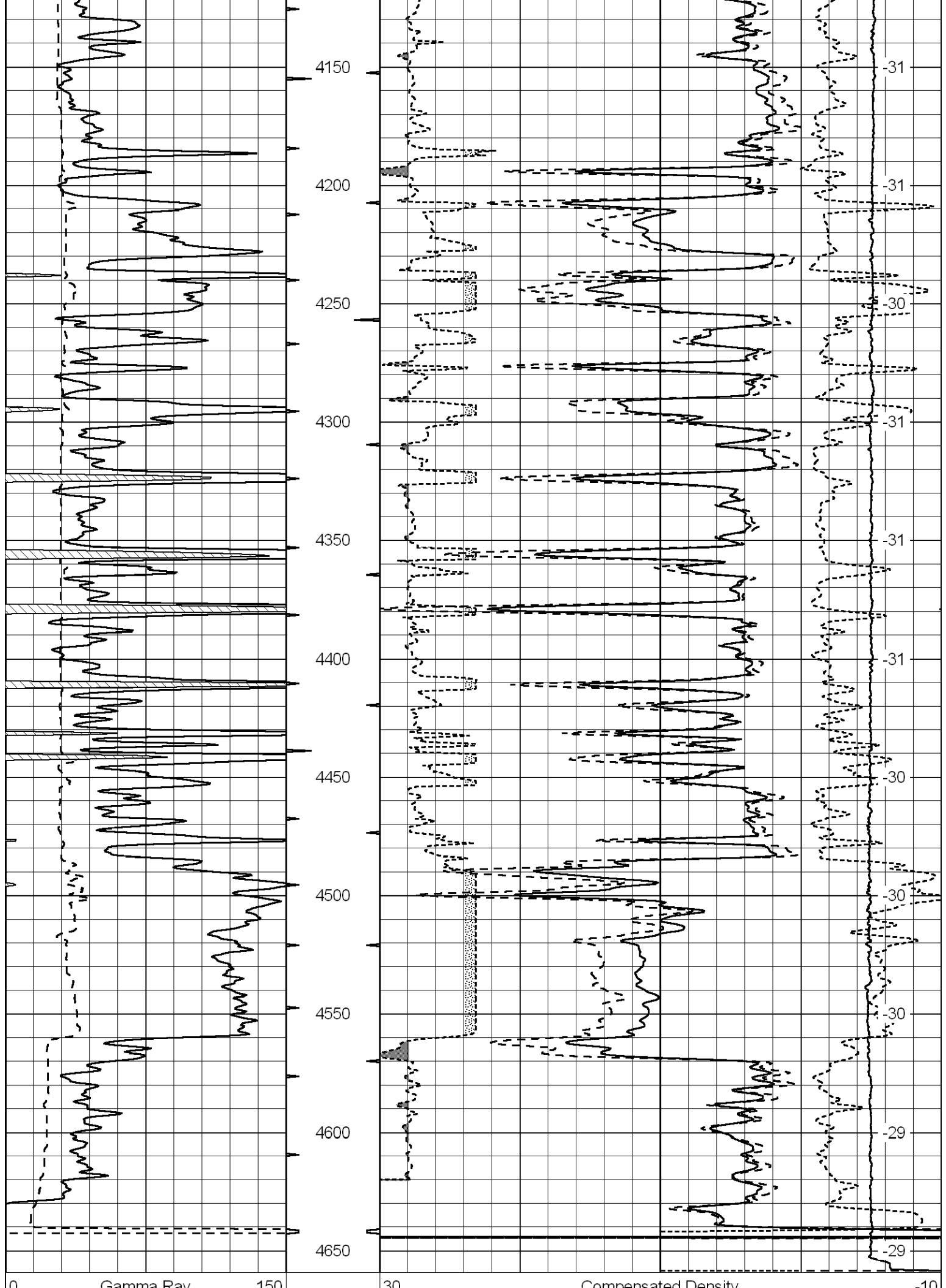
Database File: pioneerhd.db
Dataset Pathname: DIL/pnrres
Presentation Format: cdl
Dataset Creation: Wed Jun 08 13:12:36 2011
Charted by: Depth in Feet scaled 1:600

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







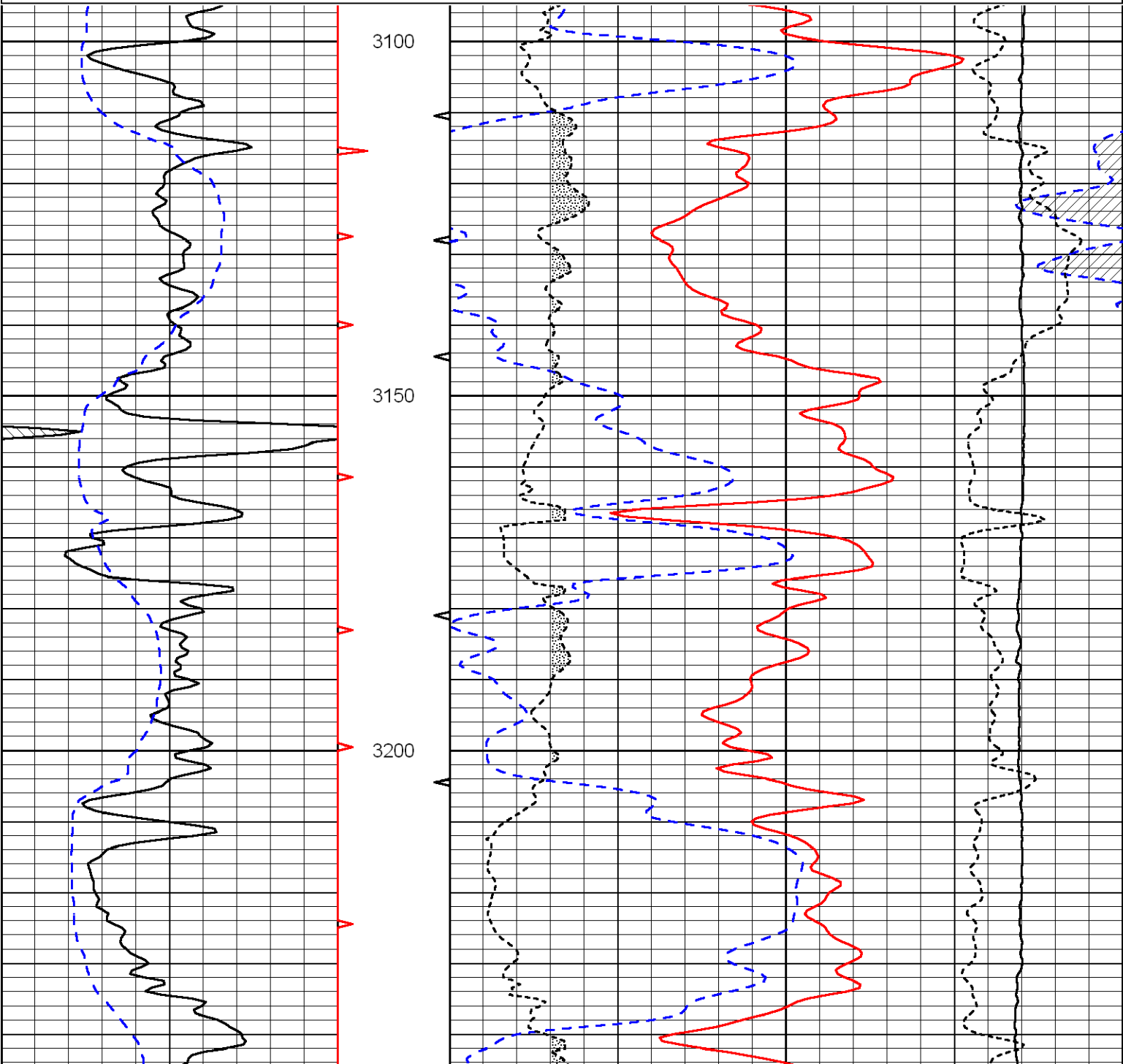
6	Gamma Ray	150
6	Caliper (GAPI)	16

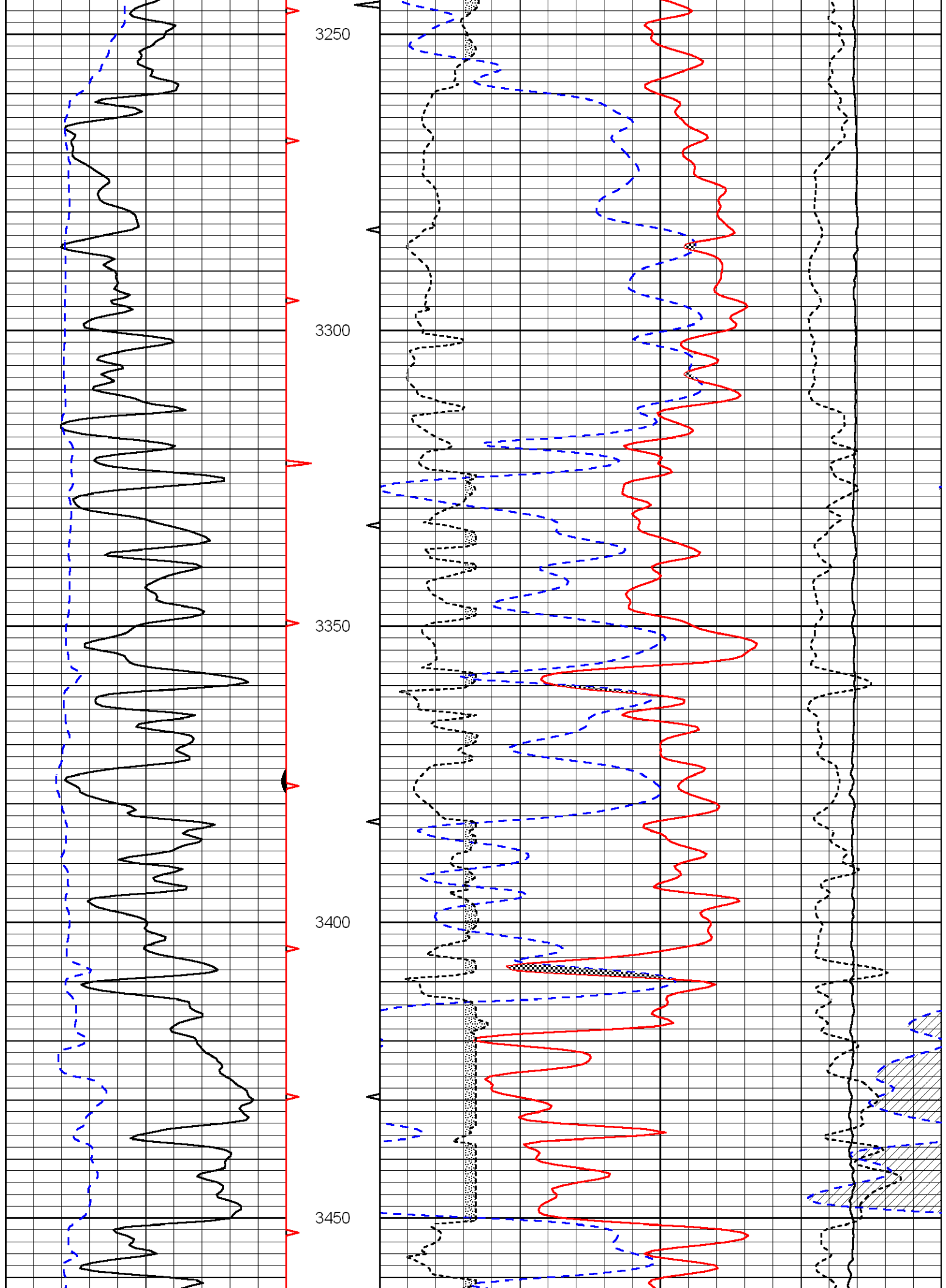
50	Compensated Density				-10
2	Bulk Density				3
15000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
					LSPD

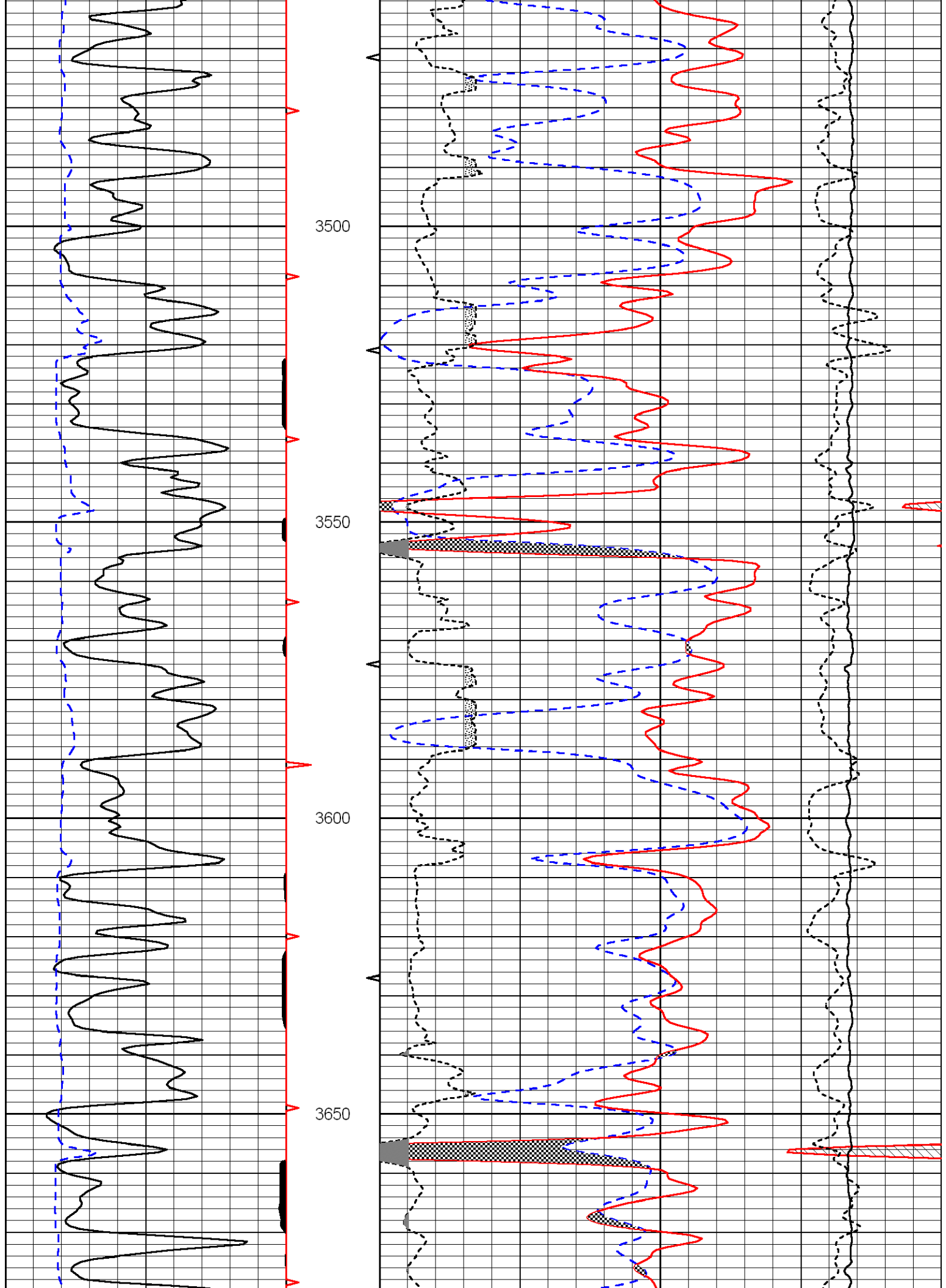
Database File:	pioneerhd.db
Dataset Pathname:	DIL/pnrres
Presentation Format:	cnlspec
Dataset Creation:	Wed Jun 08 13:12:36 2011
Charted by:	Depth in Feet scaled 1:240

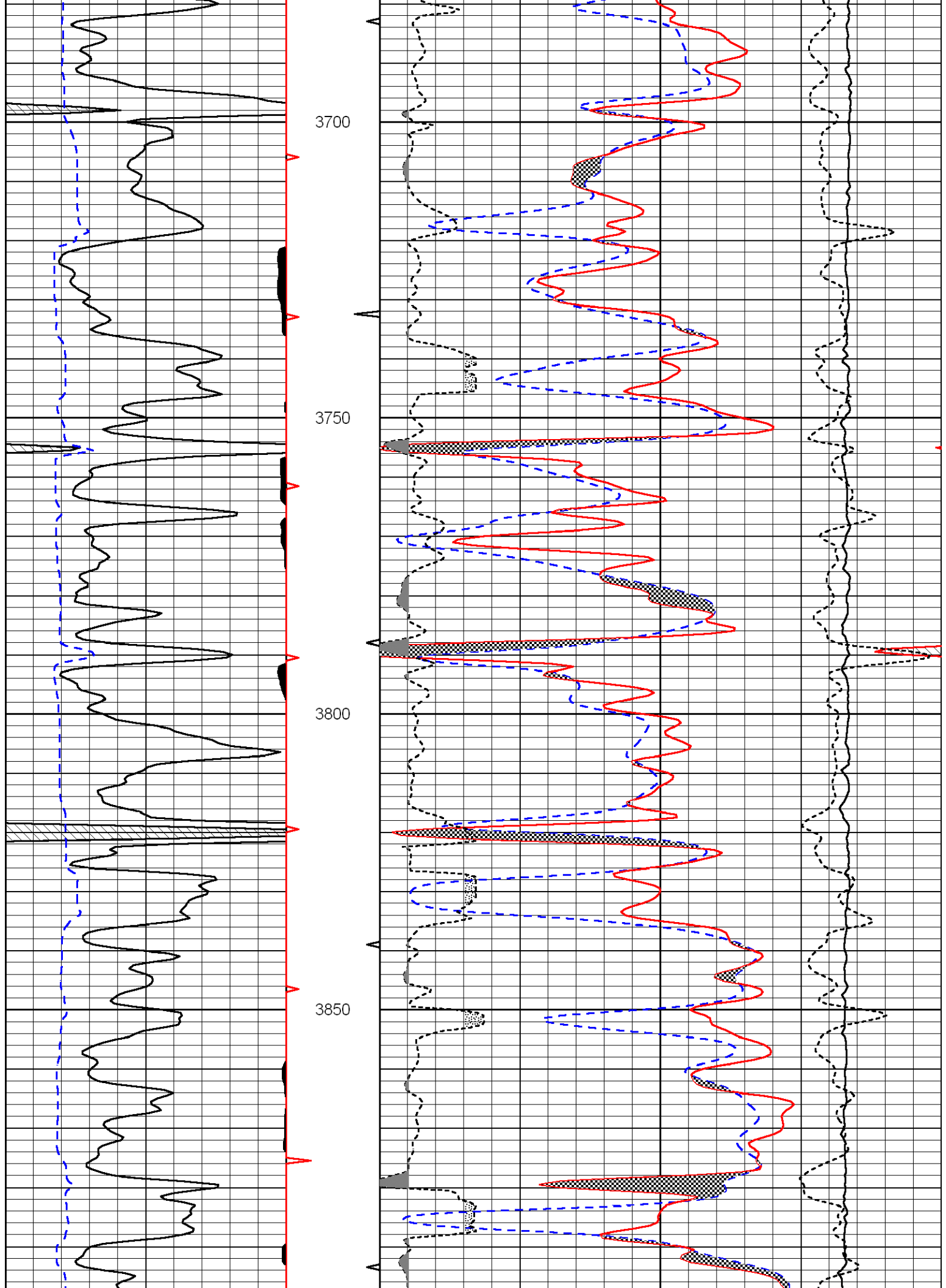
0	Gamma Ray	150
6	Caliper (GAPI)	16

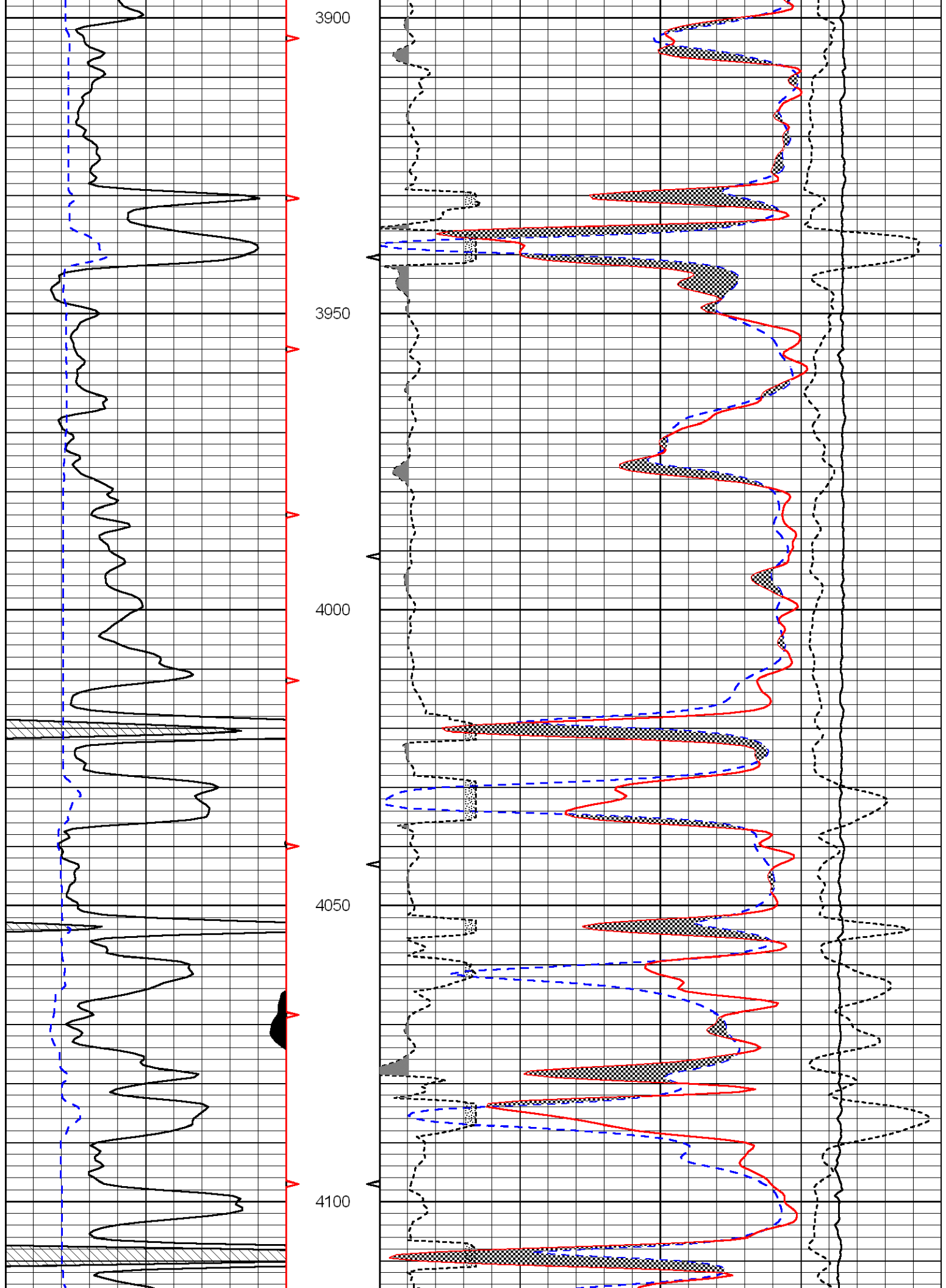
30	CNLS				-10
30	Compensated Density (2.71 ma)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension				0

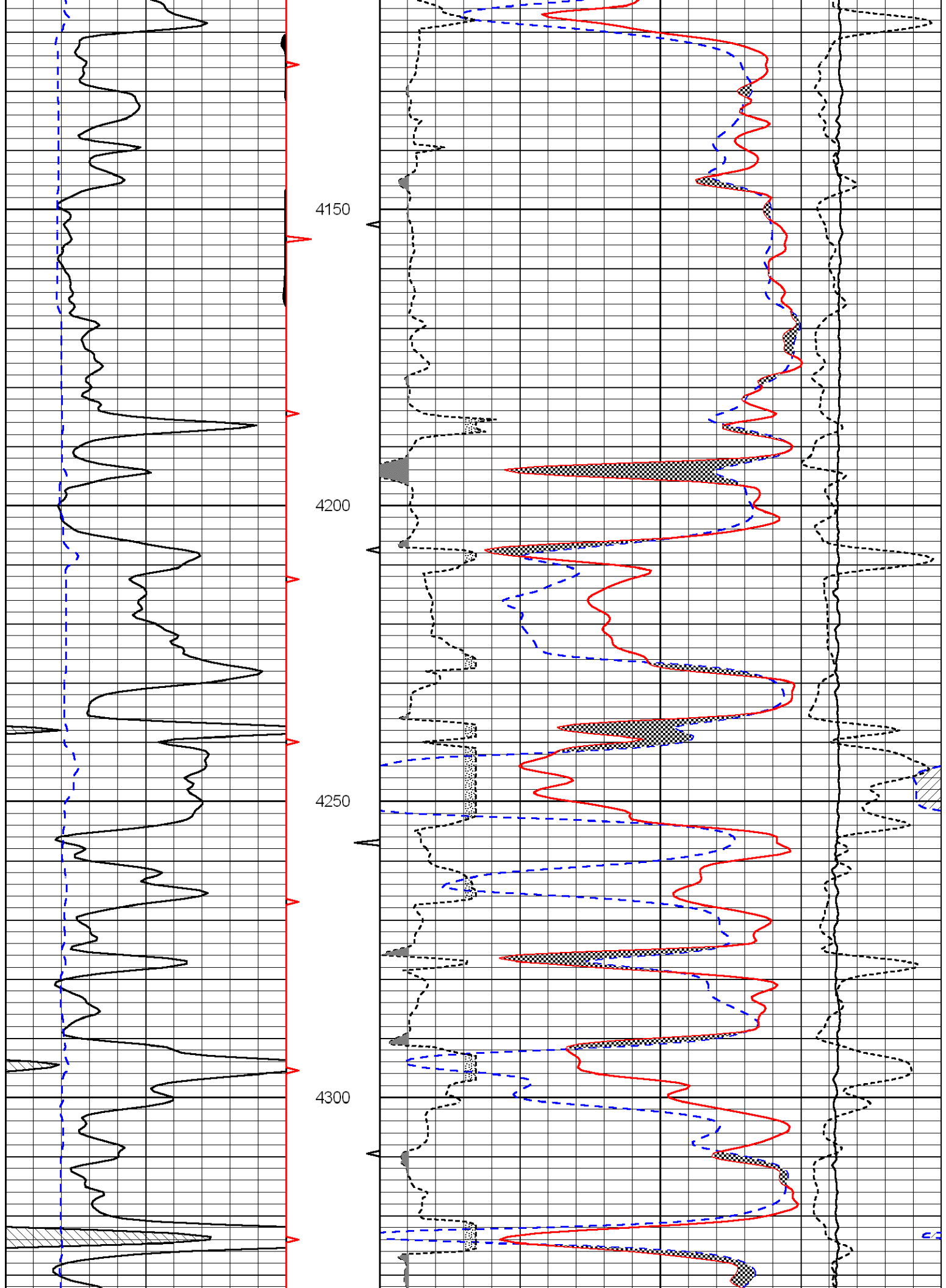


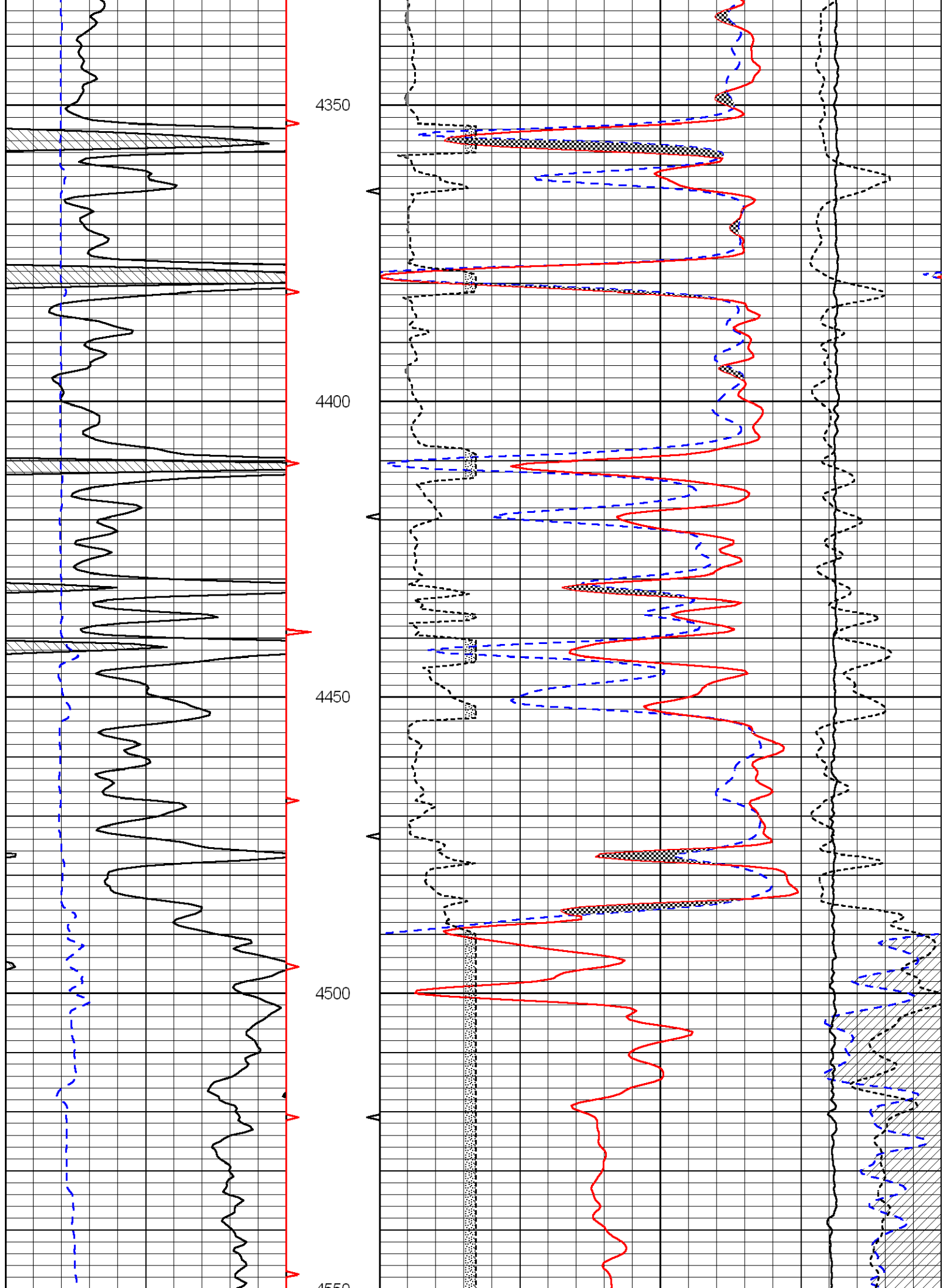


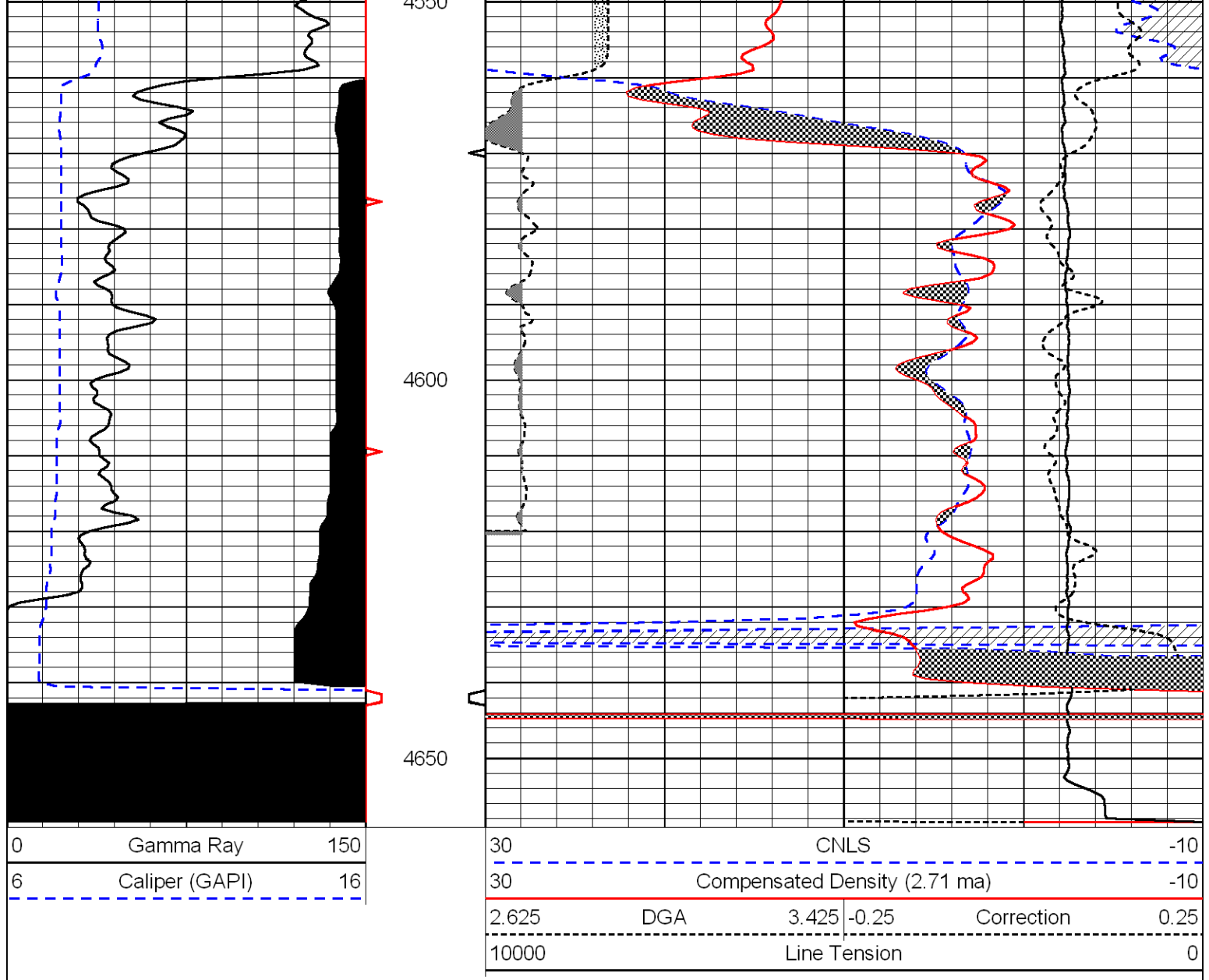












0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS	-10
30	Compensated Density (2.71 ma)	-10
2.625	DGA	3.425
-0.25	Correction	0.25
10000	Line Tension	0