



Dual Compensated Porosity Log

DIGITAL LOG (785) 625-3858

API No. 15-101-22,287-00-00

Company Larson Engineering, Inc.
Well Cowdery No. 3-29
Field Cowdery
County Lane State Kansas

Location SW NW NE NE
588' FNL & 1,089' FEL

Sec: 29 Twp: 18S Rge: 30W

Other Services
DIL
MEL

Permanent Datum Ground Level Elevation 2889
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2896
D.F.
G.L. 2889

Date 4/8/2011

Run Number One

Type Log CNL / CDL

Depth Driller 4620

Depth Logger 4614

Bottom Logged Interval 4593

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 3000

Density 9.1

Level Full

Max. Rec. Temp. F 122

Operating Rig Time 4 Hours

Equipment -- Location 10 Hays

Recorded By J. Long

Witnessed By Vern Schrag

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	256	8.625	24#	00	256
2	7.875	256	4620				

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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.

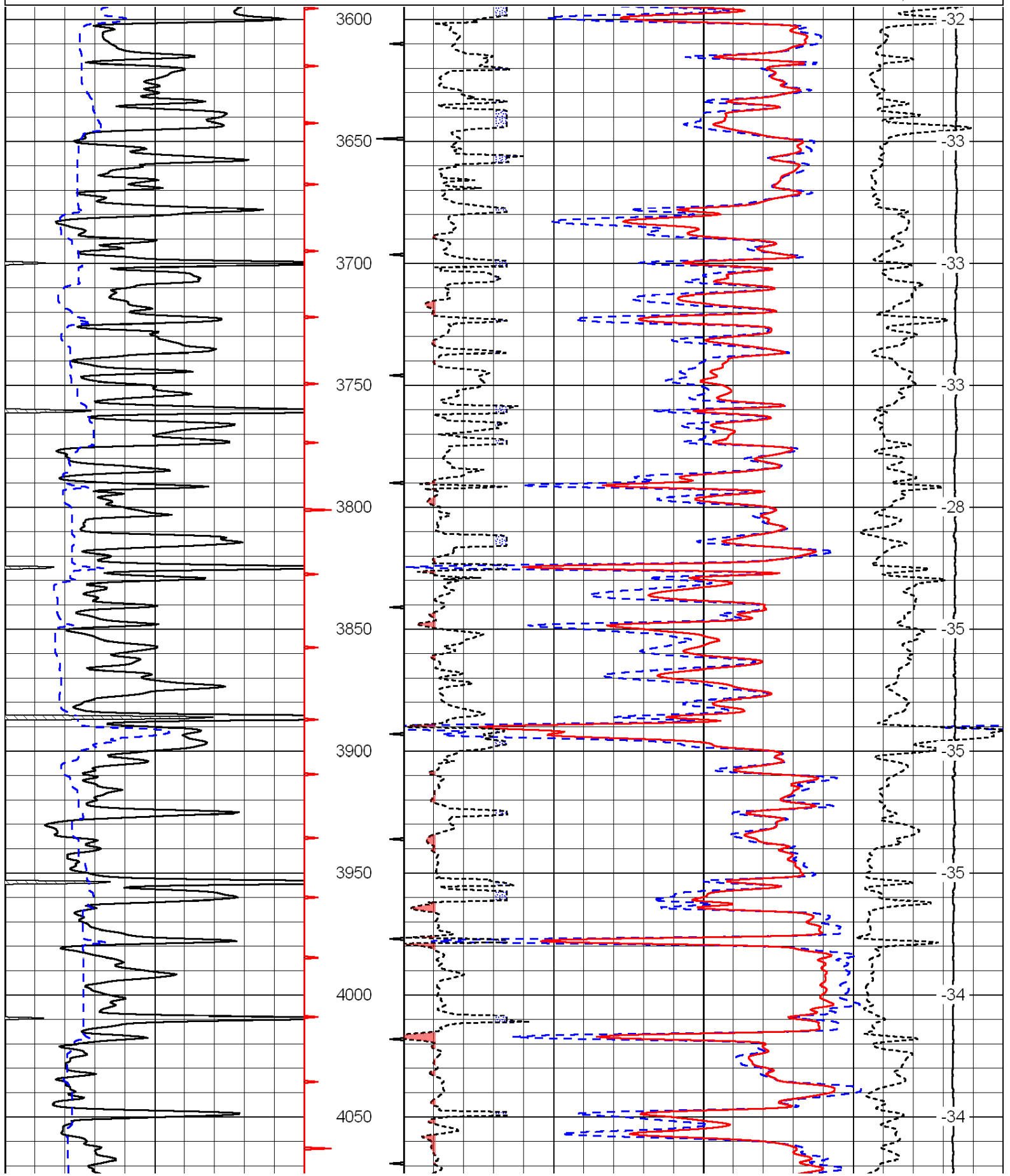
Comments

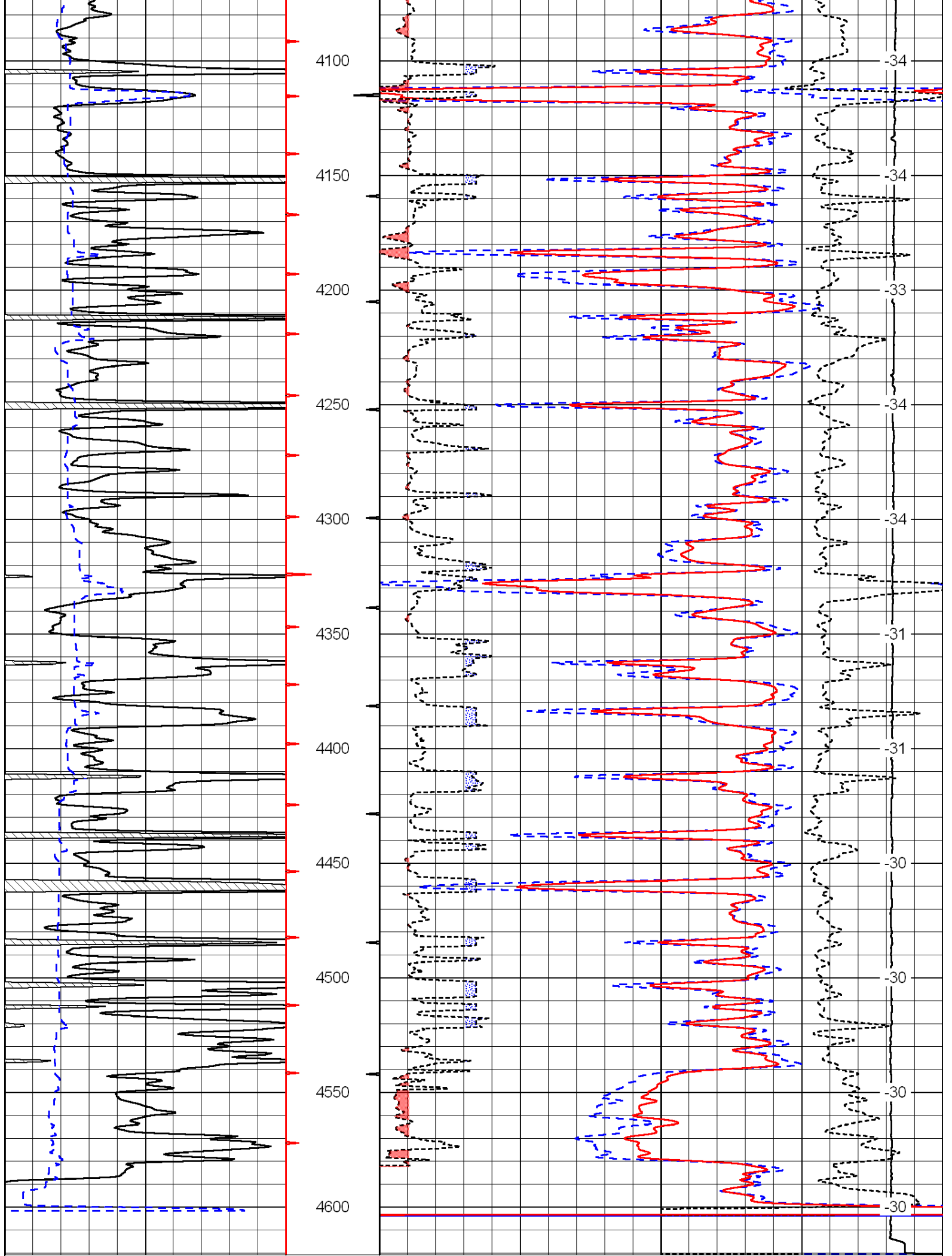
Thank you for using Log-Tech, Inc.
(785) 625-3858

Dighton, 10 West to Bison Road, 1.2 Miles South, West Into (On Lease Road)

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			





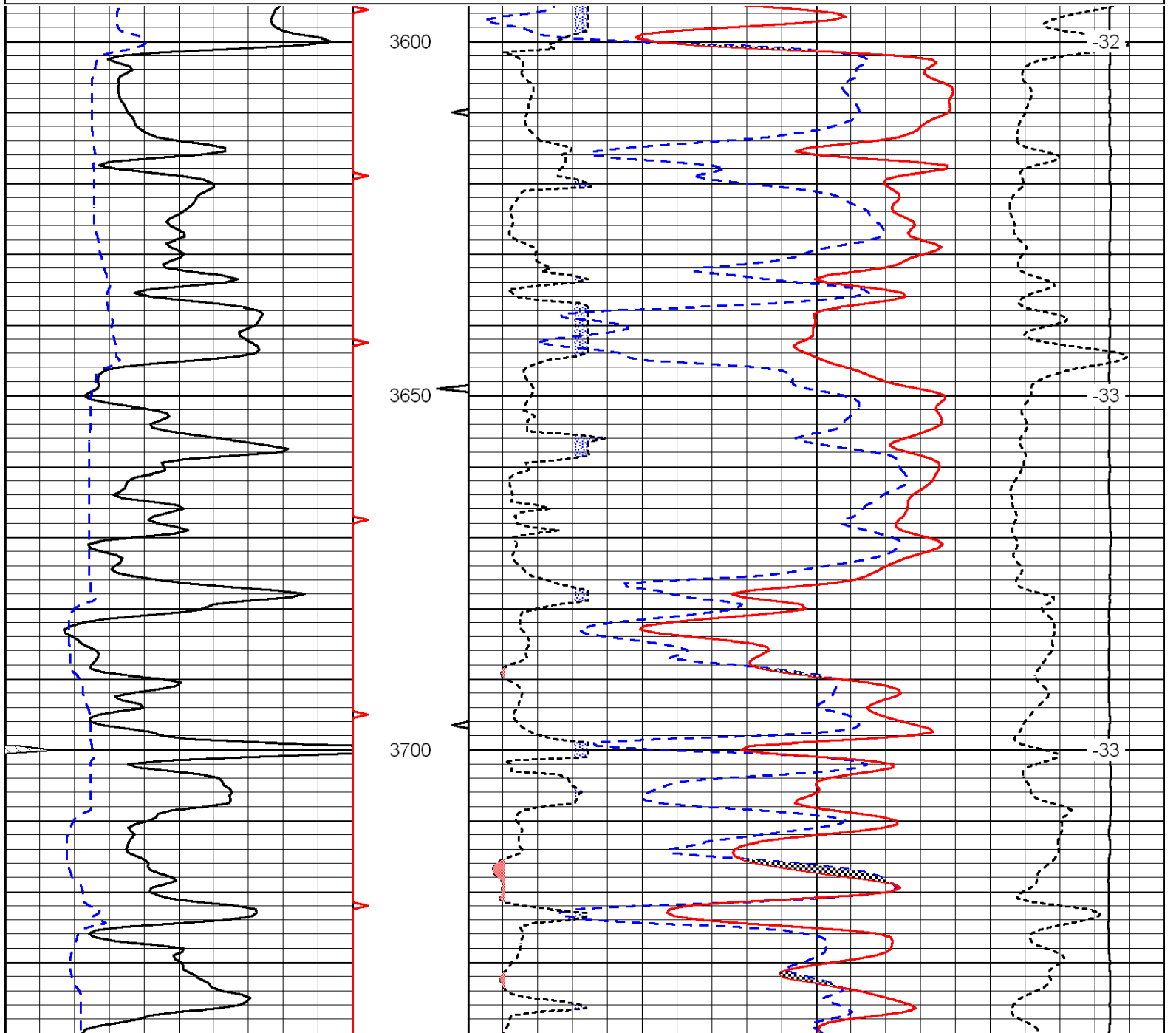
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6	Caliper (GAPI)	16

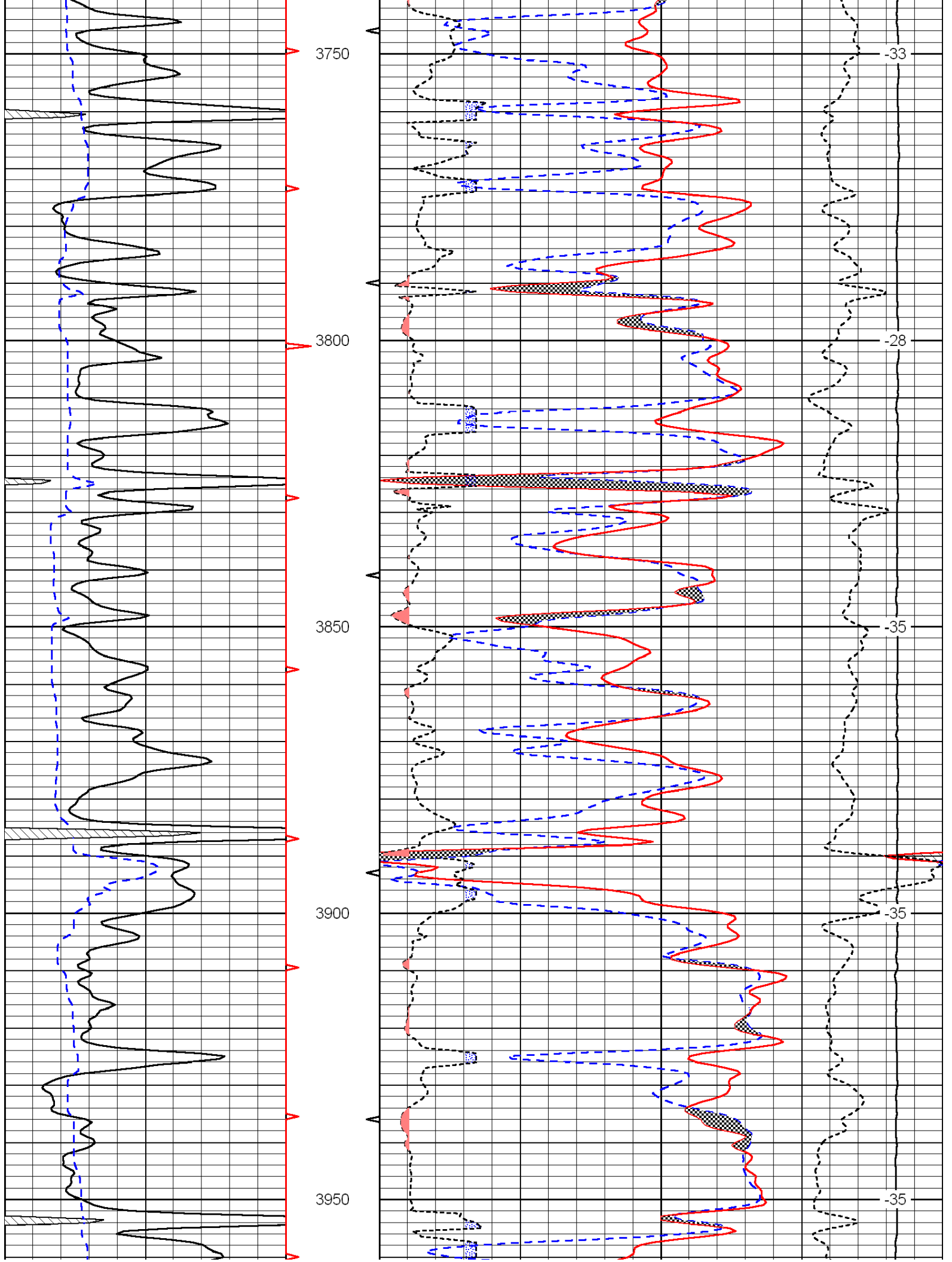
30	Compensated Density			-10
2	Bulk Density			3
15000	Line Tension			0
2.625	DGA	3.425	-0.25	Correction 0.25
				LSPD

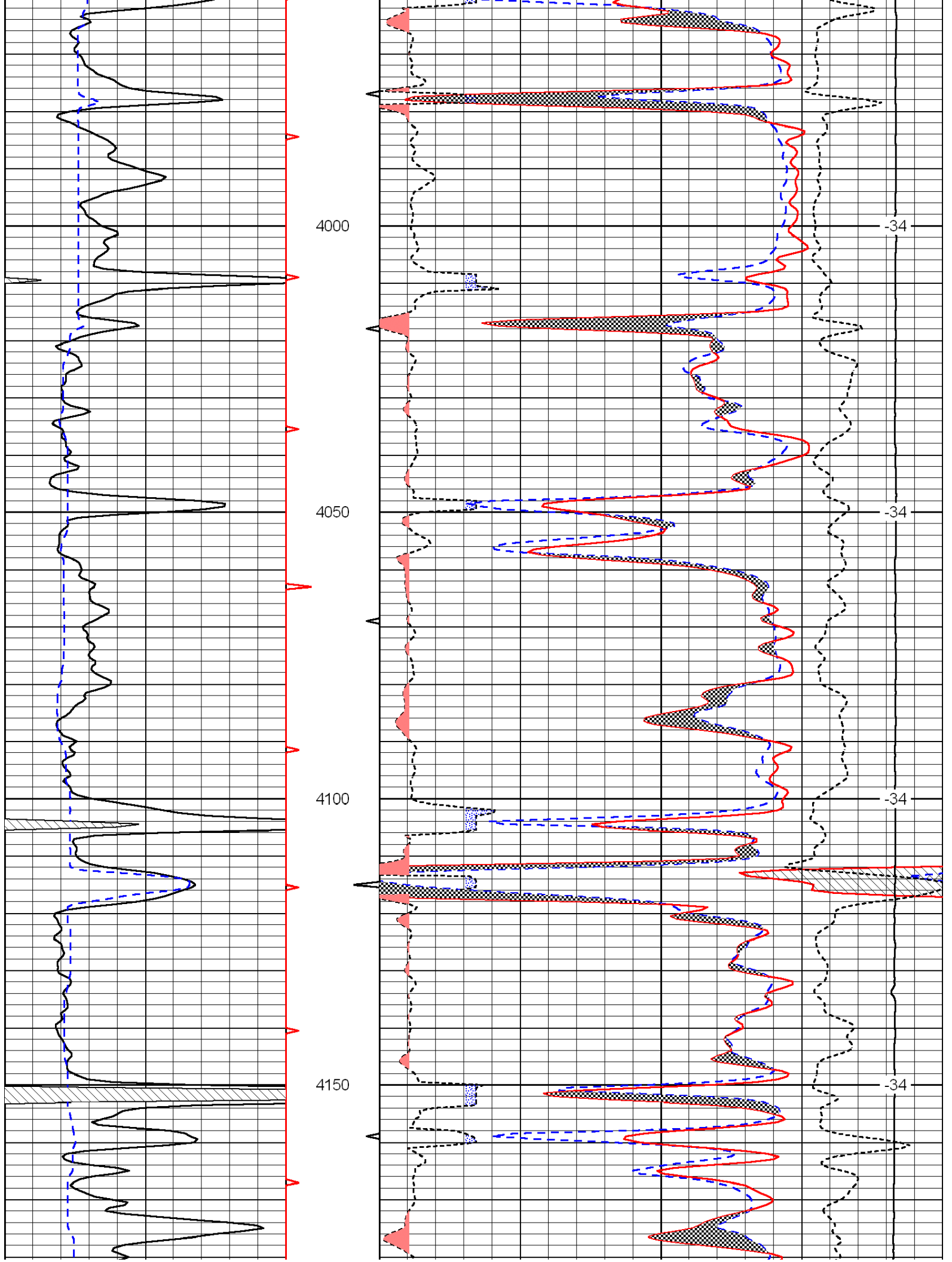
Database File: c:\warrior\data\larson_cowdery no. 3-29\larson_cowdery_3-29hd.db
 Dataset Pathname: dil/larsstck
 Presentation Format: cndlspec
 Dataset Creation: Fri Apr 08 19:34:29 2011
 Charted by: Depth in Feet scaled 1:240

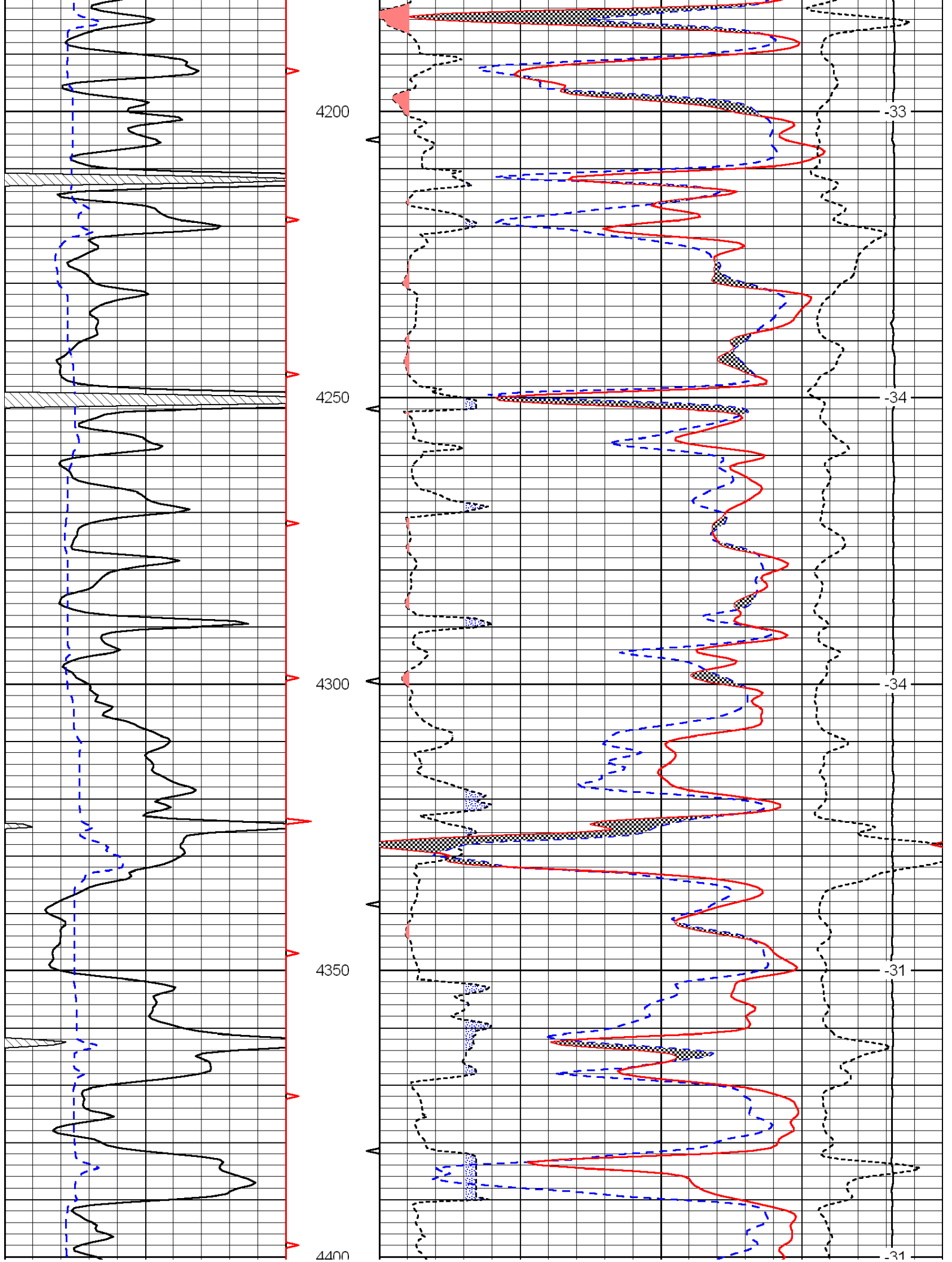
0	Gamma Ray	150
6	Caliper (GAPI)	16

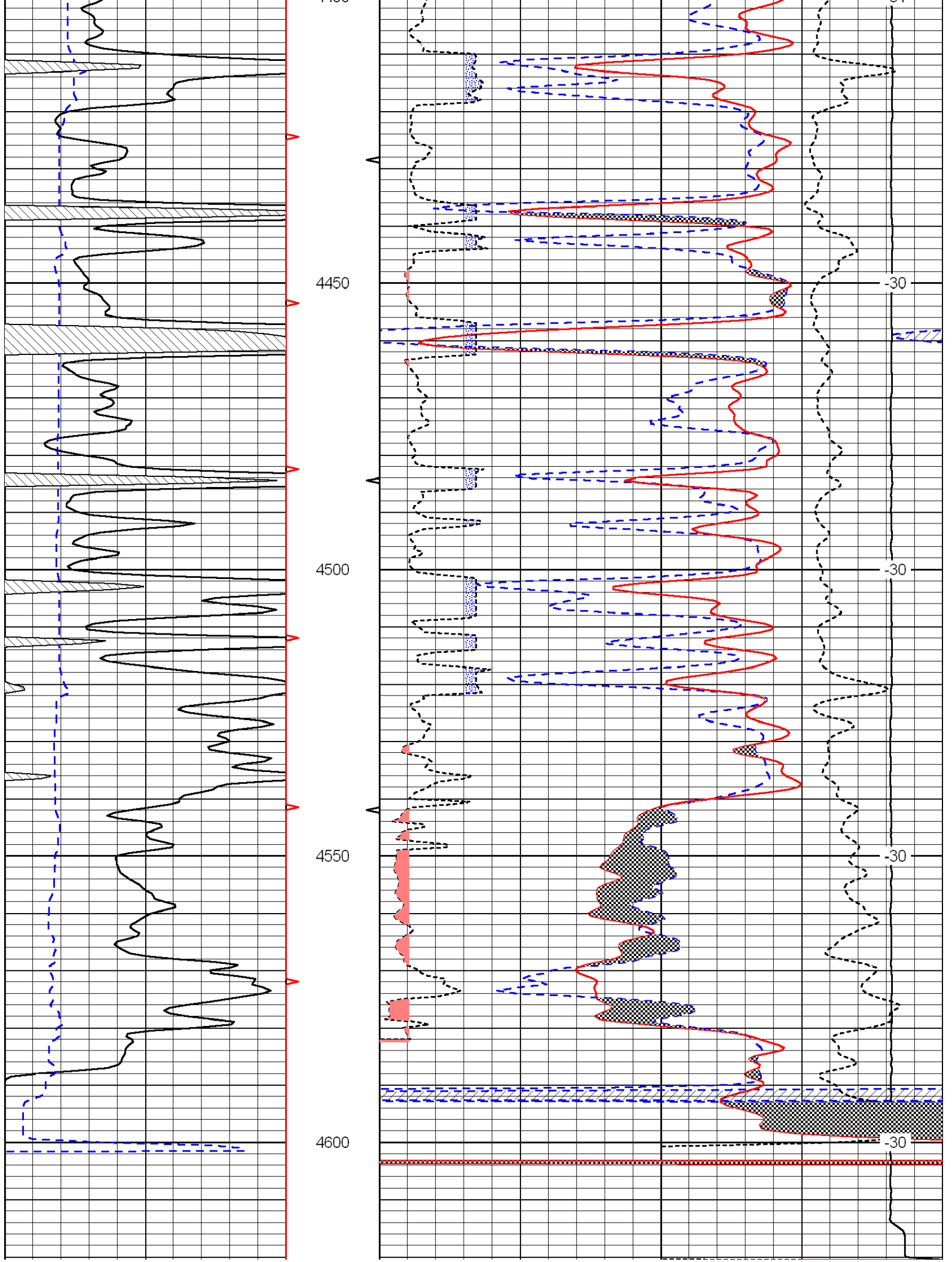
30	Compensated Neutron (Limestone)			-10
30	Compensated Density (Limestone)			-10
2.625	DGA	3.425	-0.25	Correction 0.25
15000	Line Tension			0
				LSPD











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6	Caliper (GAPI)	16

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2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension			0	
				LSPD	