



Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-101-22535-00-00

Company **Larson Engineering, Inc.**
Well **Lora #1-32**
Field **Wildcat**
County **Lane** State **Kansas**

Location **330' FSL & 865' FEL**

Sec: **32** Twp: **19S** Rge: **29W**

Other Services
DIL
MEL

Permanent Datum **Ground Level** Elevation **2865**
Log Measured From **Kelly Bushing** **7** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. **2872**
D.F. **2865**
G.L. **2865**

Date **9/15/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4675**

Depth Logger **4675**

Bottom Logged Interval **4654**

Top Logged Interval **3600**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **3700**

Density **9.1**

Level **Full**

Max. Rec. Temp. F **123**

Operating Rig Time **4 Hours**

Equipment -- Location **91 Hays**

Recorded By **D. Schmidt**

Witnessed By **Vern Schrag**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	263	8.625	24#	00	263
2	7.875	263	4675				

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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.

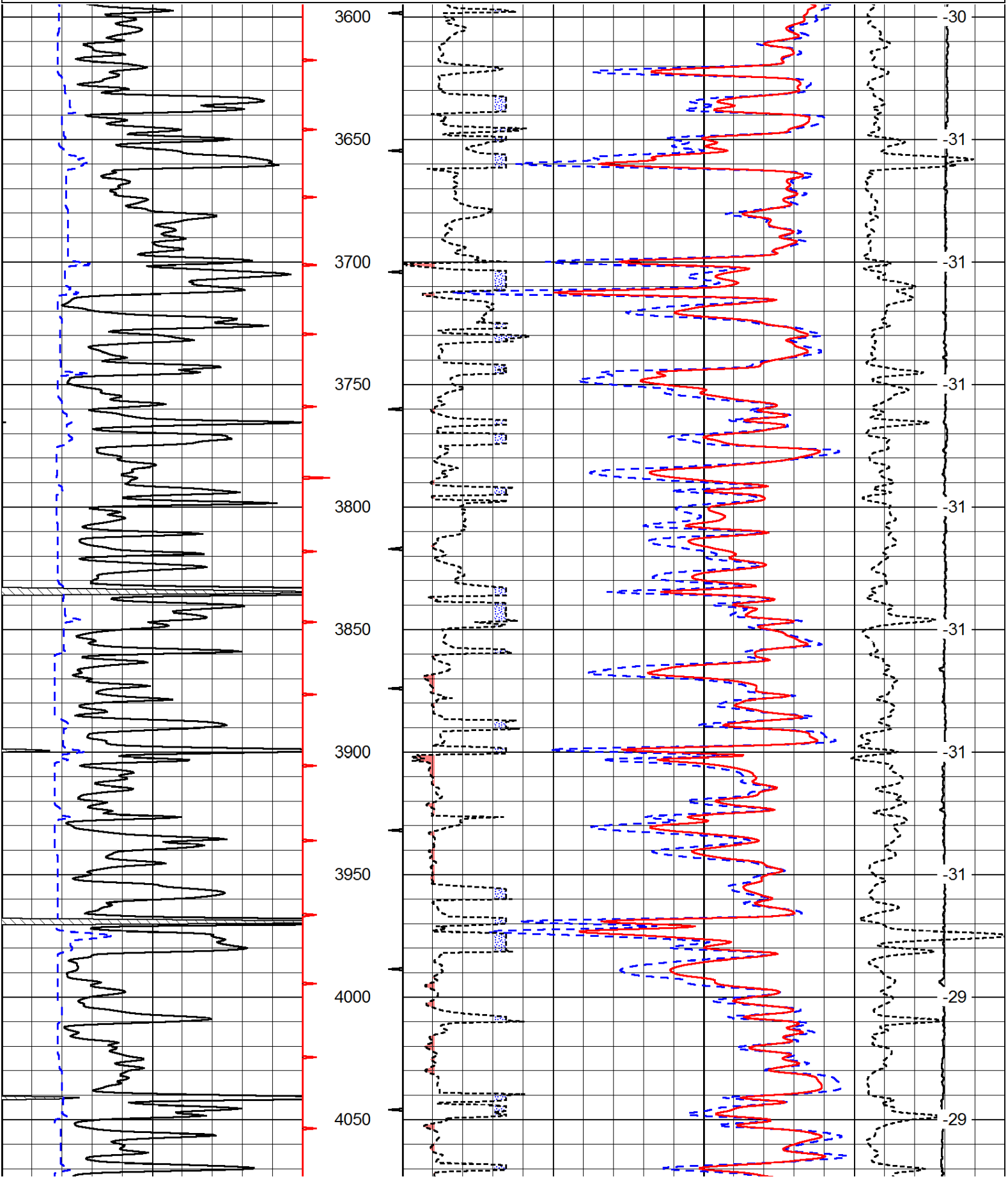
Comments

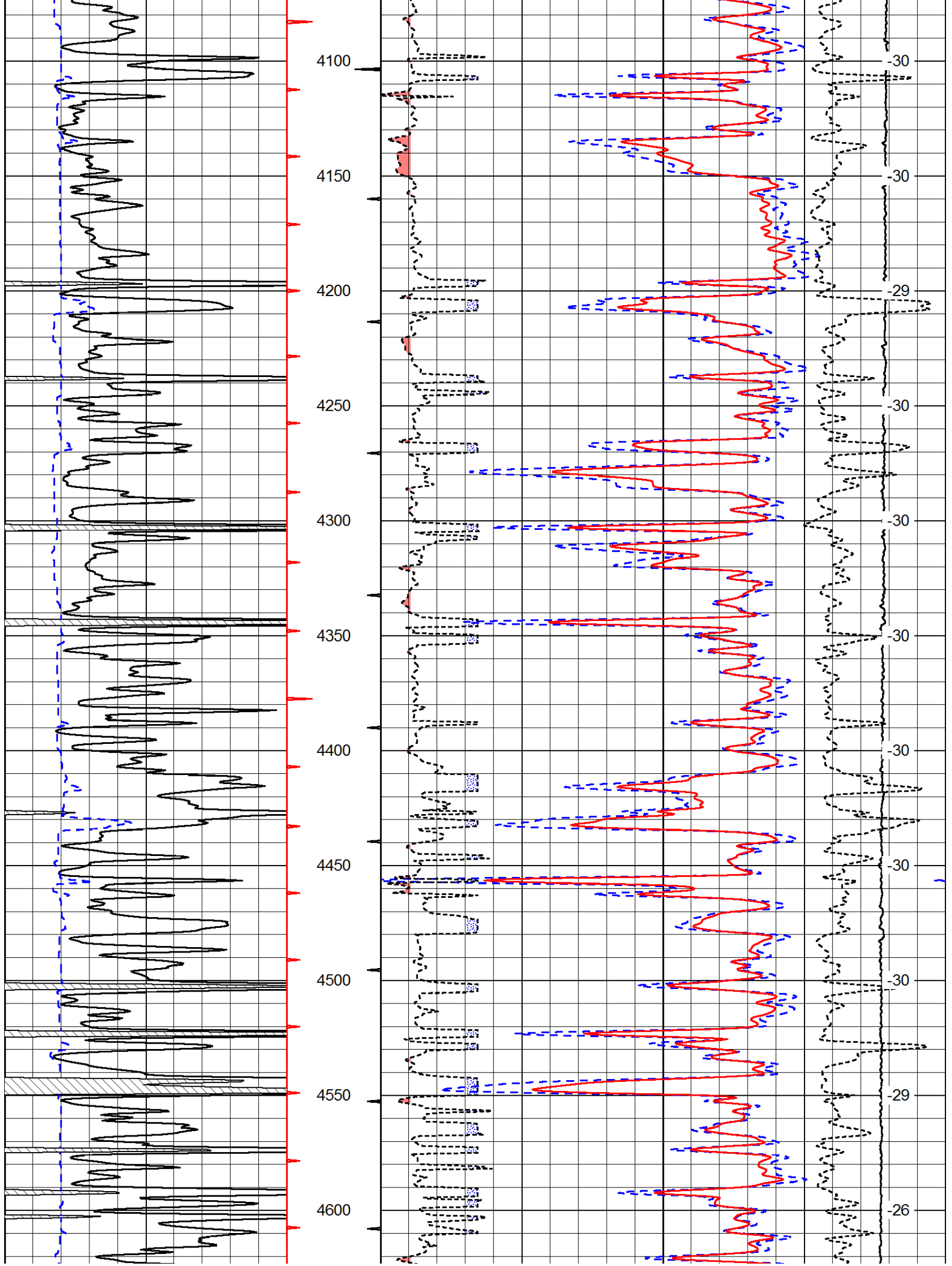
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Dighton,
9 South to Rd 60, 4 1/4 West,
North into

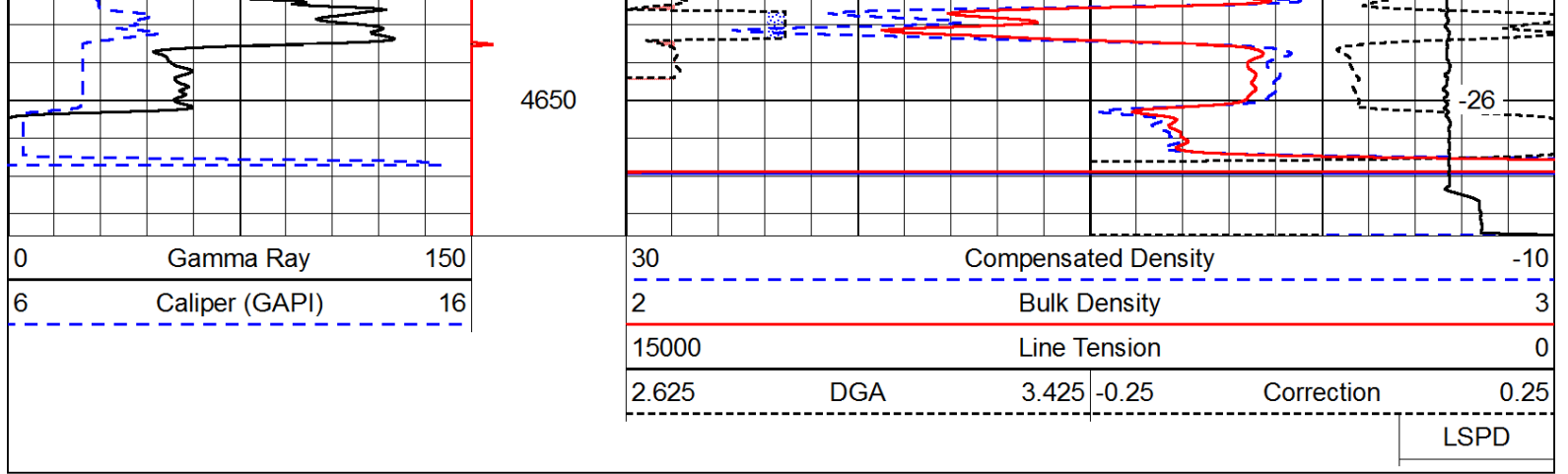
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Dataset Pathname: dil\lastack
Presentation Format: cdl
Dataset Creation: Mon Sep 15 09:32:30 2014
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

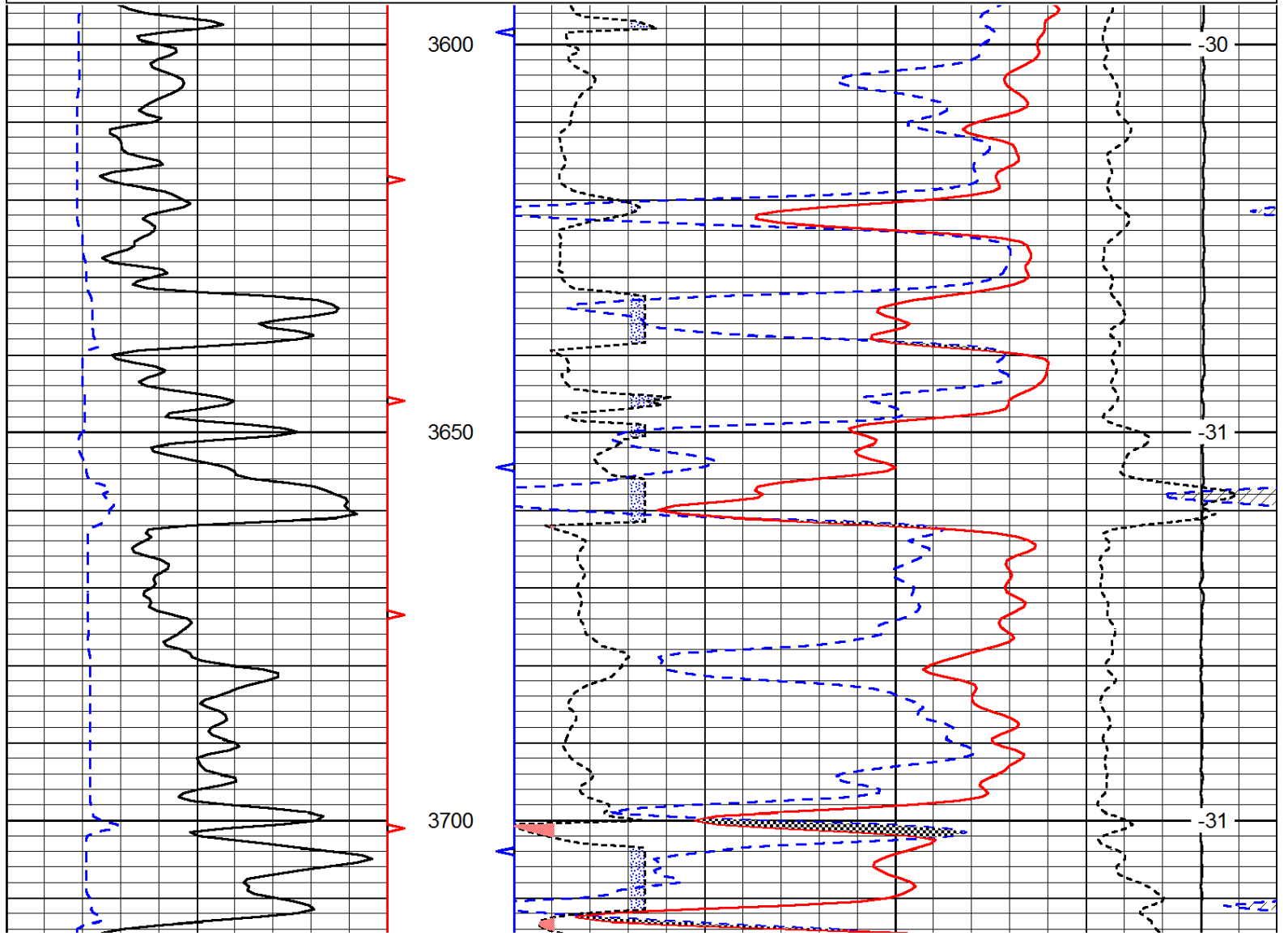
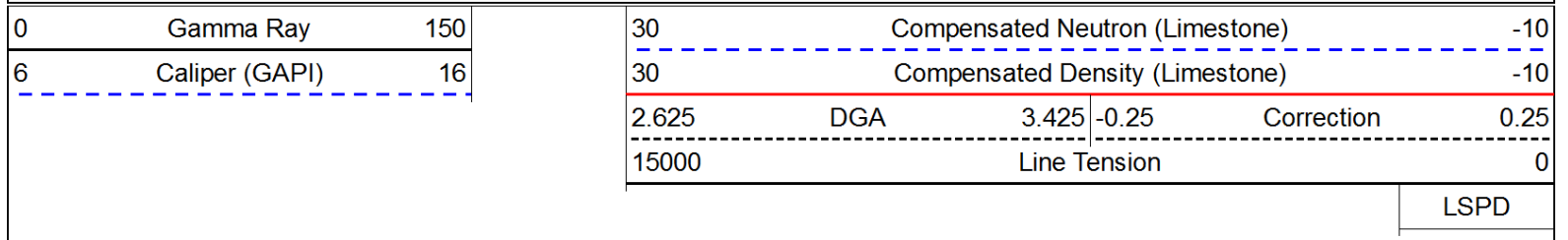
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
		Correction	0.25
LSPD			

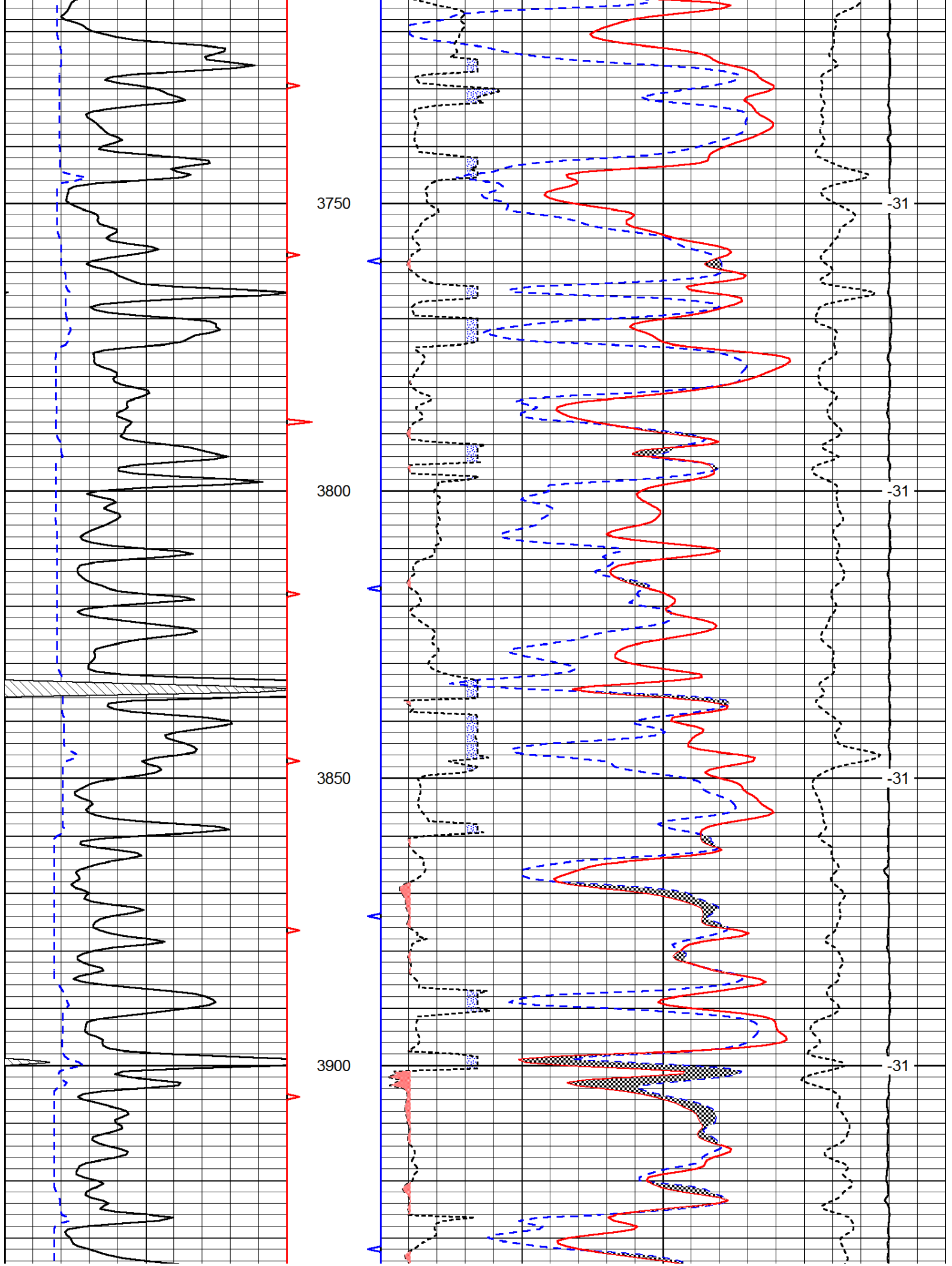


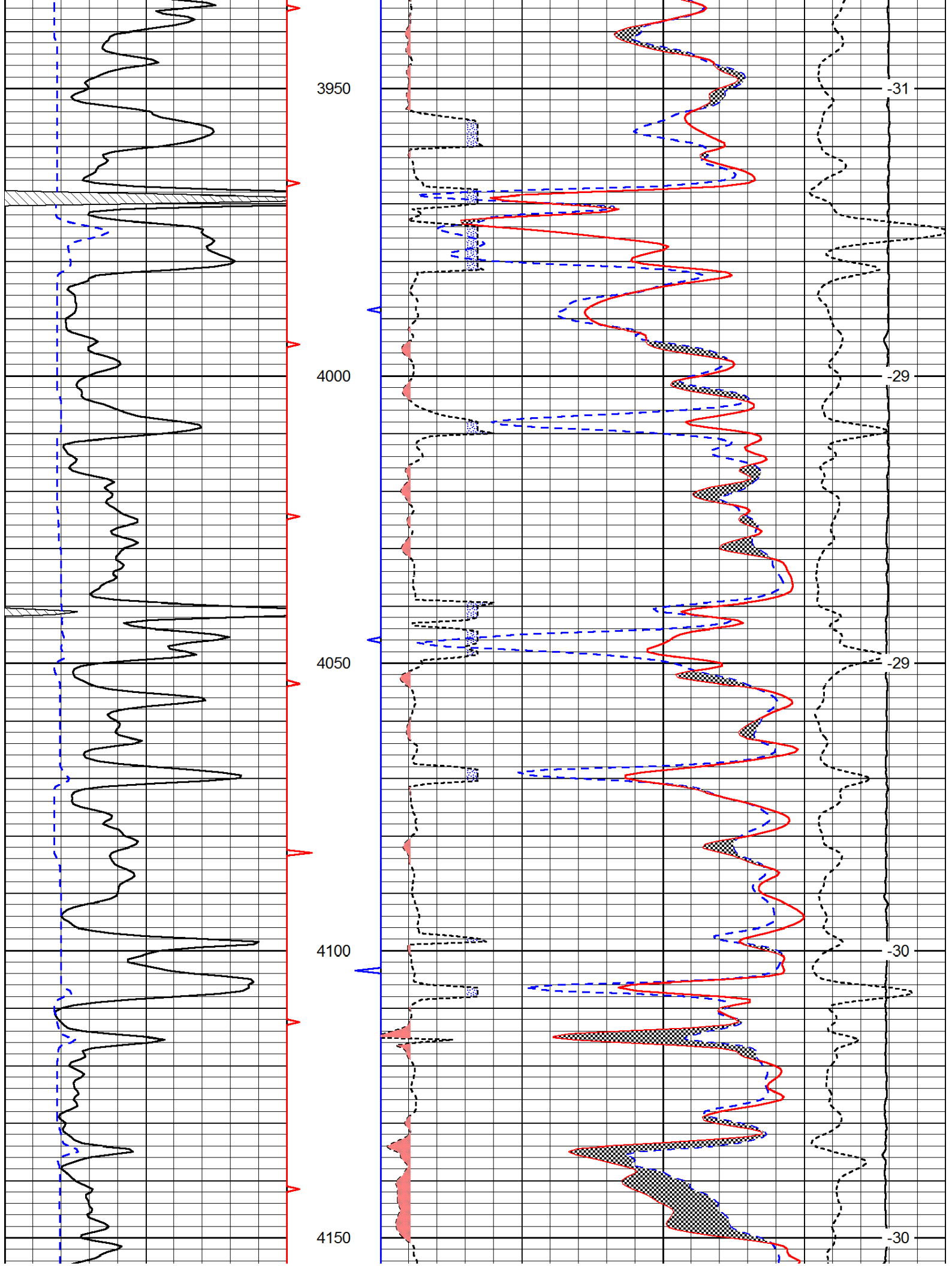


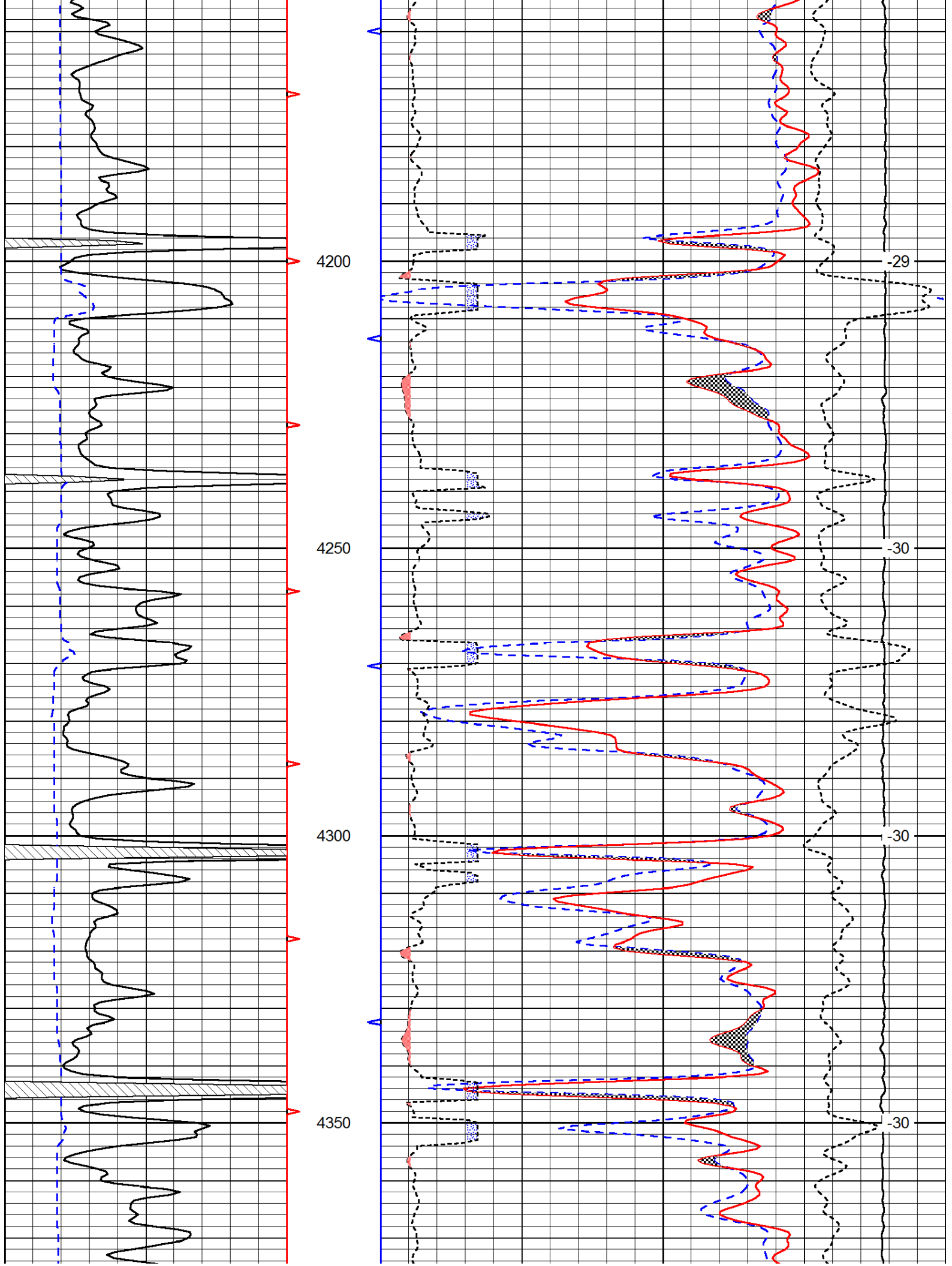


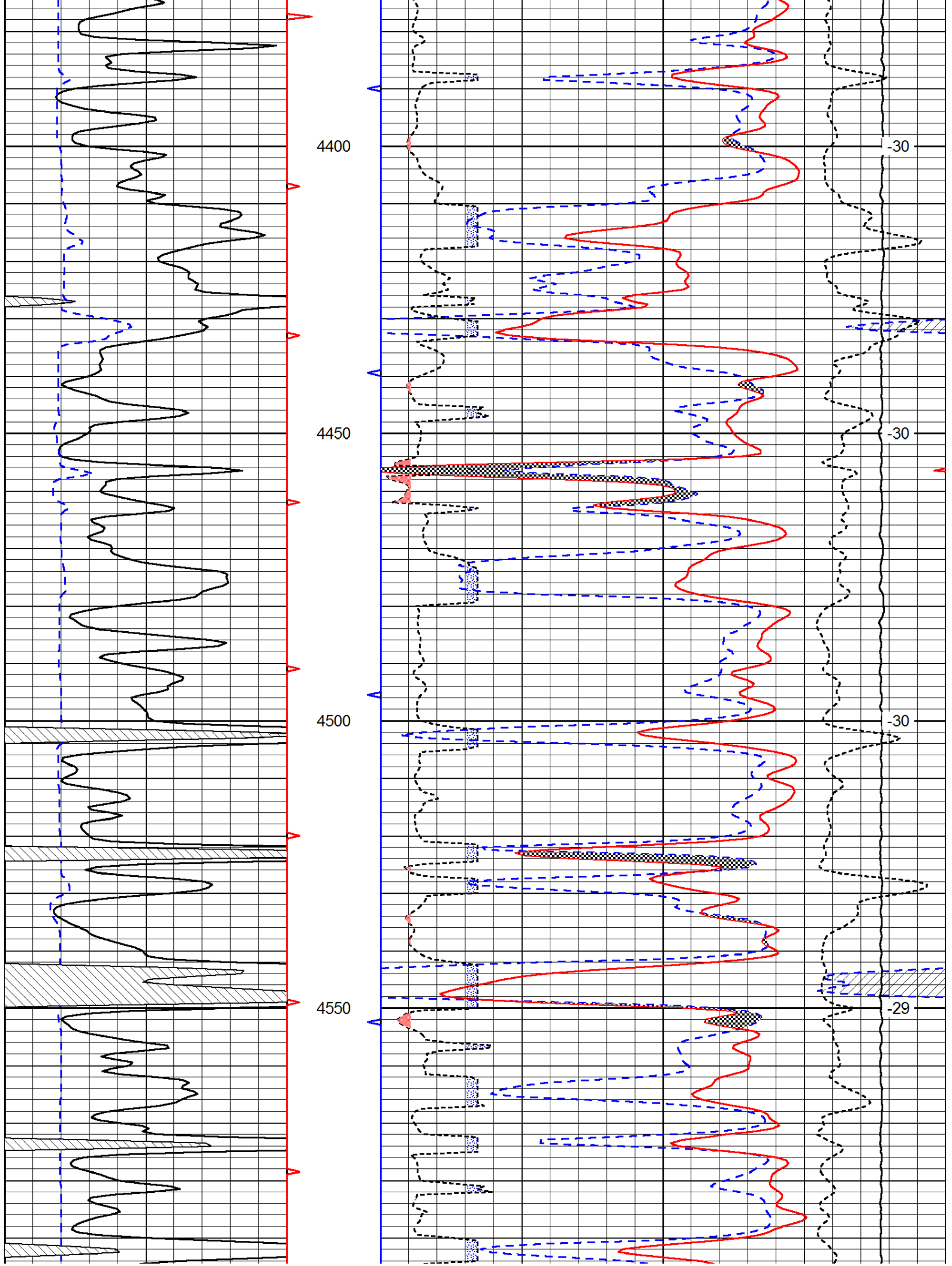
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 Presentation Format: cndlspec
 Dataset Creation: Mon Sep 15 09:32:30 2014
 Charted by: Depth in Feet scaled 1:240

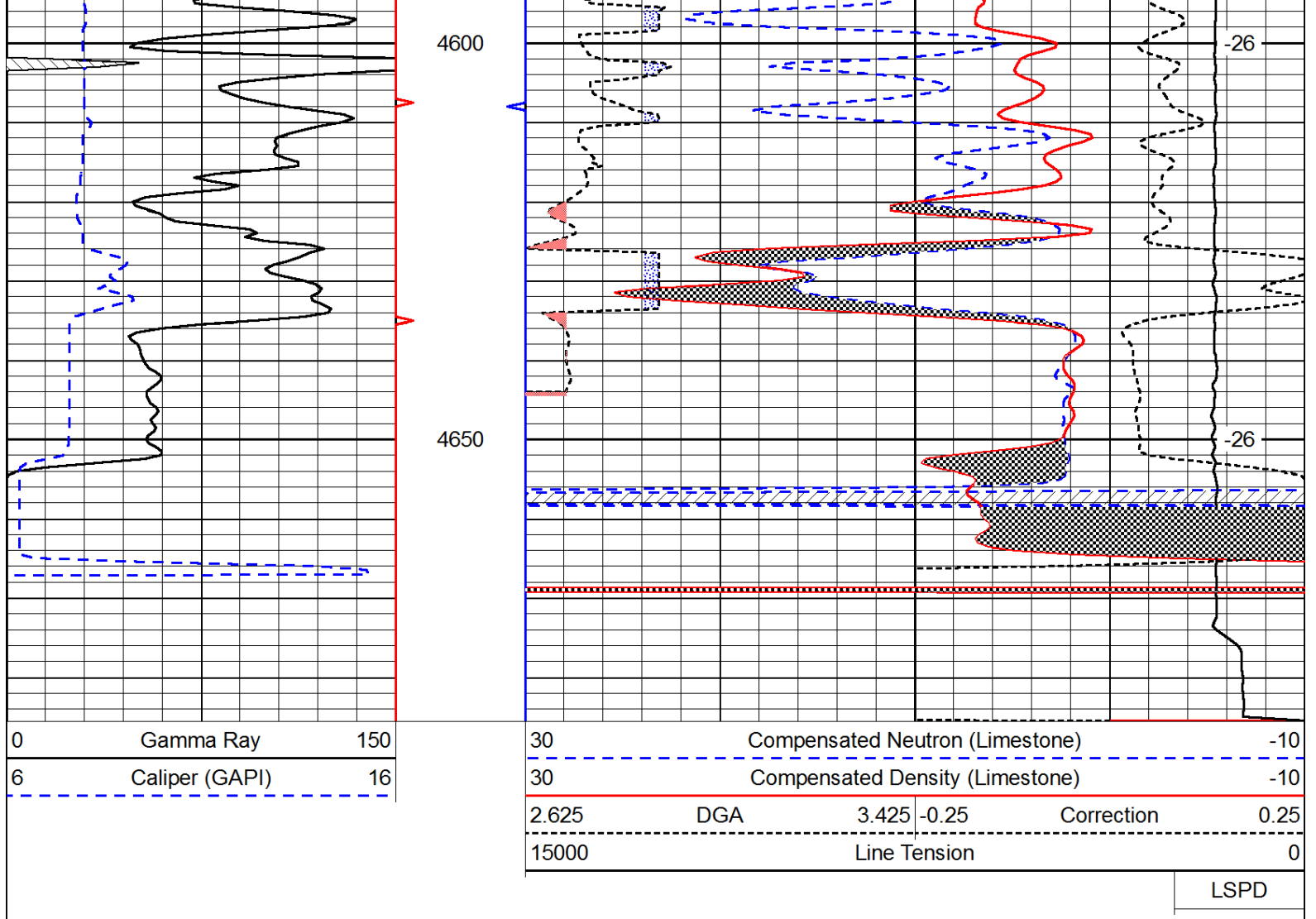












Repeat Section

Database File: c:\warrior\data\larson_lora #1-32\larson_lora_1-32hd.db
 Dataset Pathname: dil\larrep
 Presentation Format: cndlspec
 Dataset Creation: Mon Sep 15 07:55:53 2014
 Charted by: Depth in Feet scaled 1:240

