



Pioneer Energy Services

Dual Compensated Porosity Log

15-047-21,644-00-00

API No.

Company **Toto Energy, LLC**
 Well **Prince Of Whales #8-1**
 Field **Wil**
 County **Edwards** State **Kansas**

Location **1650' FNL & 2300' FEL**

Sec: **8** Twp: **26S** Rge: **16W**

Other Services
DIL
MEL

Permanent Datum **Ground Level** Elevation **2083**
 Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2094
D.F.
G.L. 2083

Date	8/10/2014	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	4870	
Depth Logger	4867	
Bottom Logged Interval	4846	
Top Logged Interval	3700	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	6500	
Density	9.45	
Level	Full	
Max. Rec. Temp. F	125	
Operating Rig Time	4 Hours	
Equipment -- Location	10 Days	
Recorded By	D Kerr	
Witnessed By	Sonja McDanel	

Borehole Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	357	8.625	24#	00	357
2	7.875	357	4870				

Casing Record

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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

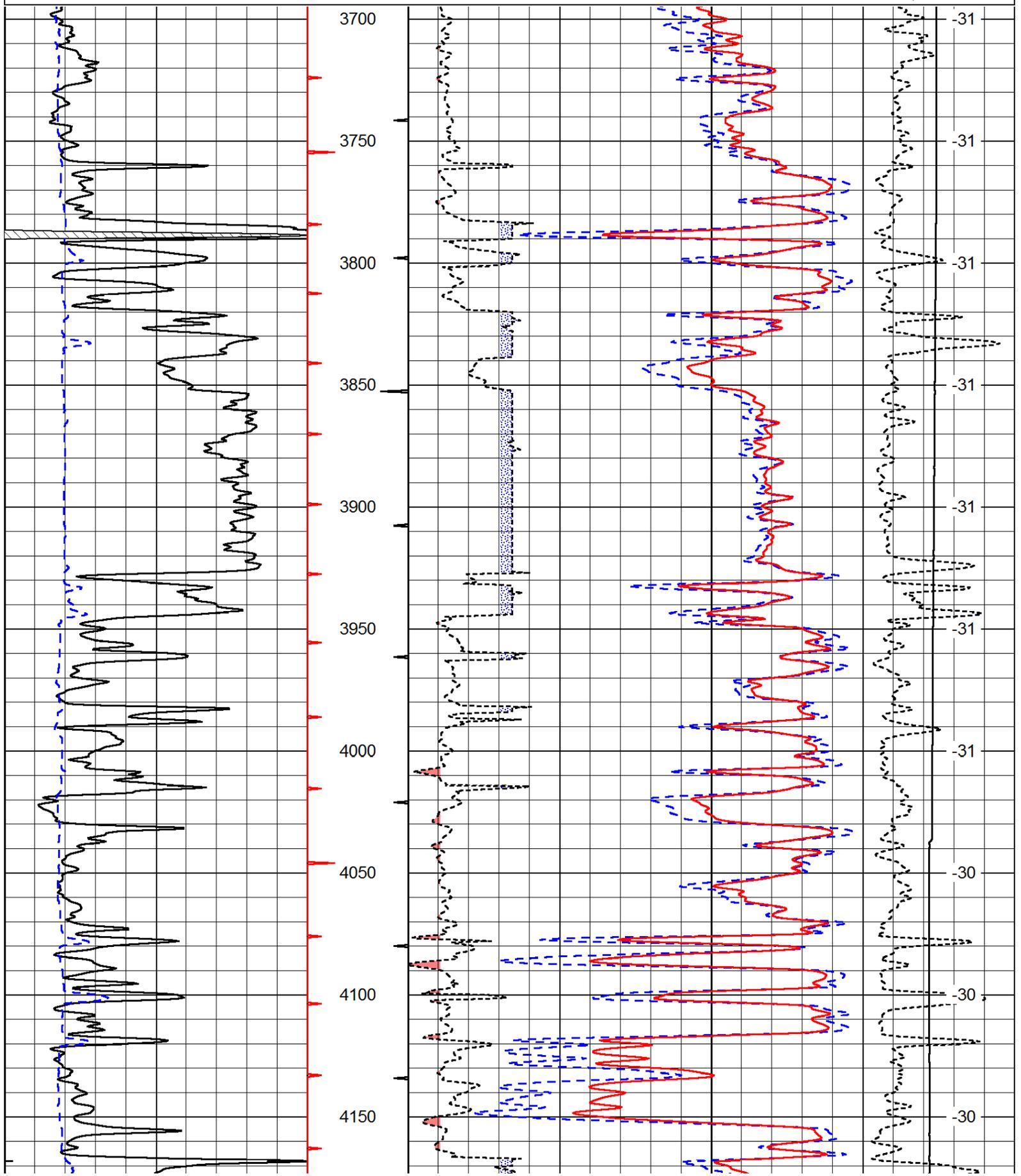
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

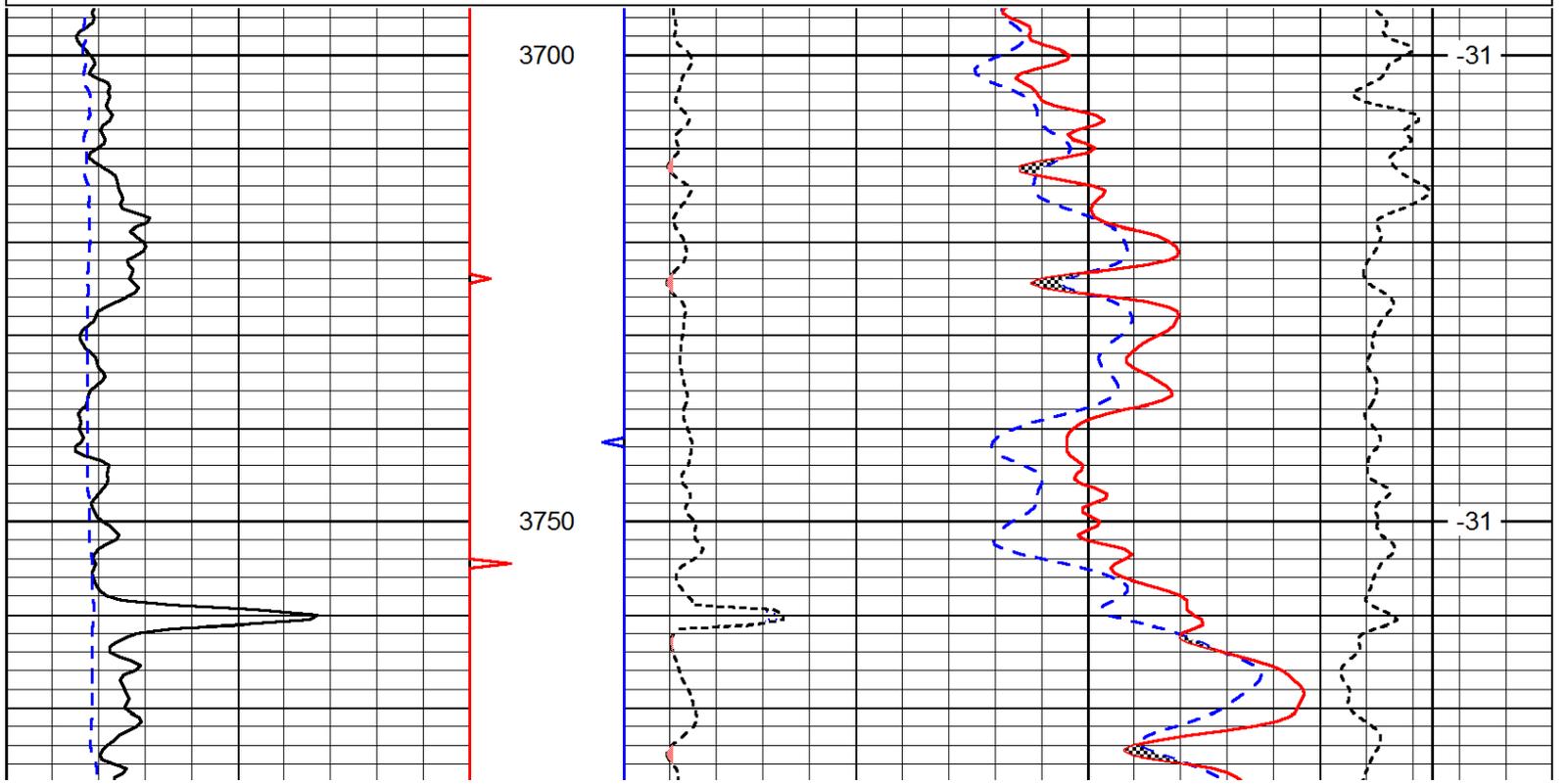
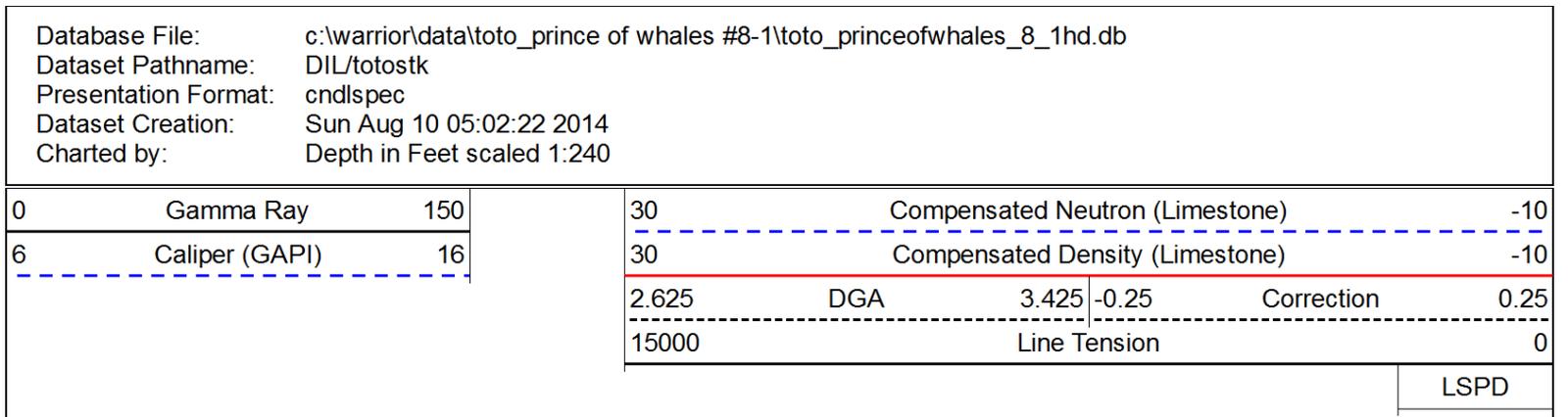
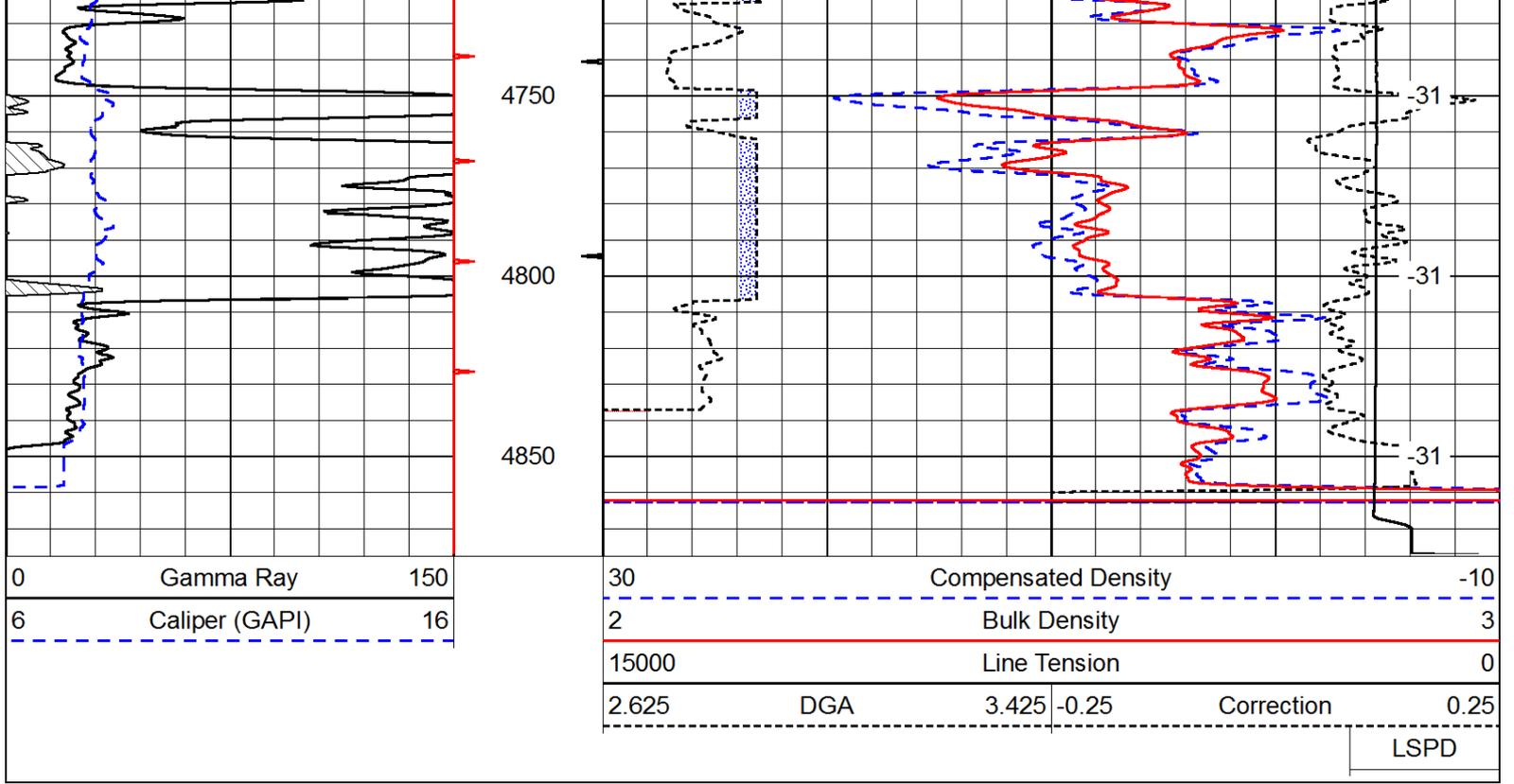
Trousdale KS, South to Stop Sign,
 1/2 South, West Into

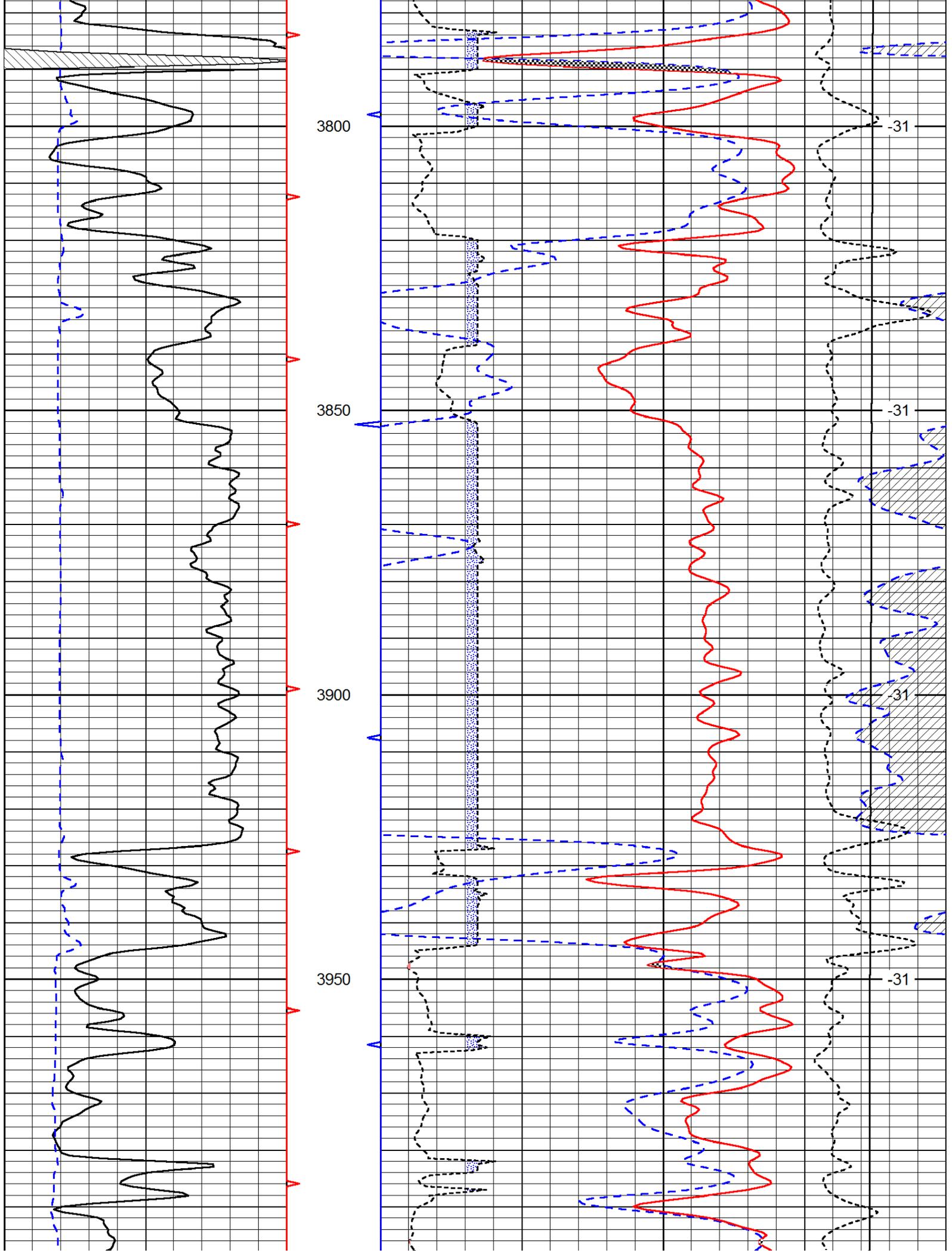
Database File: c:\warrior\data\toto_prince of whales #8-1\toto_princeofwhales_8_1hd.db
 Dataset Pathname: DIL\totostk
 Presentation Format: cdl
 Dataset Creation: Sun Aug 10 05:02:22 2014
 Charted by: Depth in Feet scaled 1:600

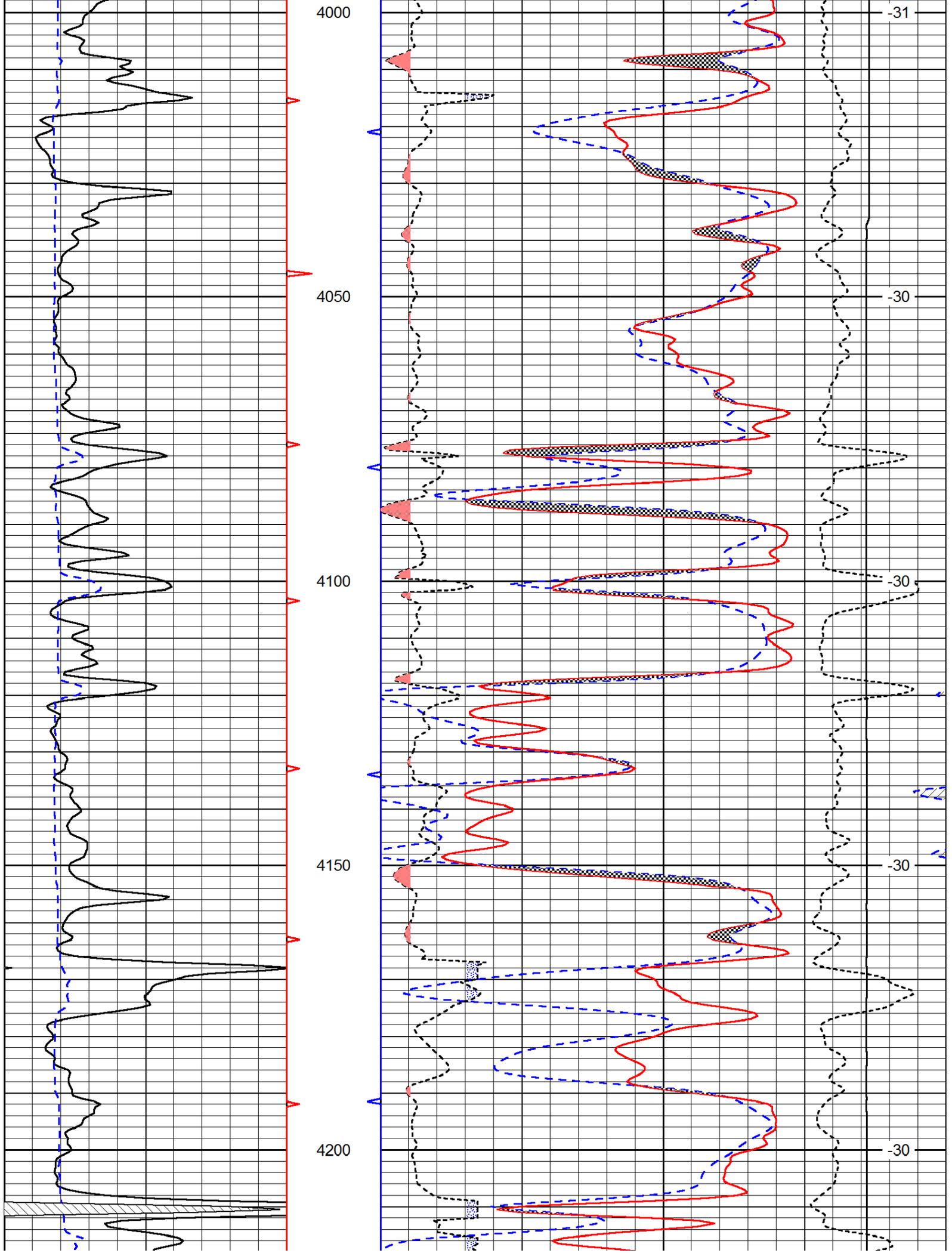
0	Gamma Ray	150
6	Caliper (GAPI)	16

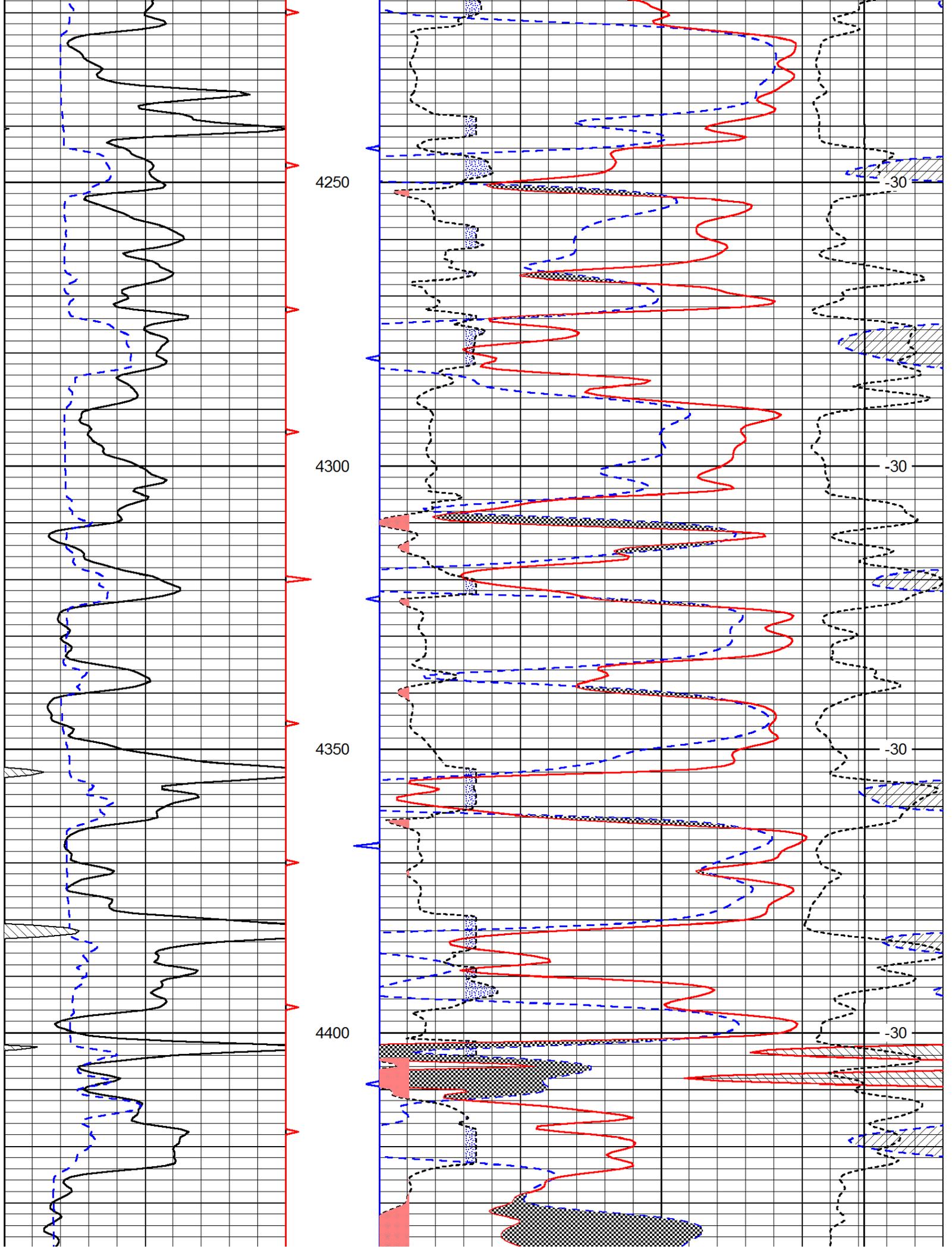
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

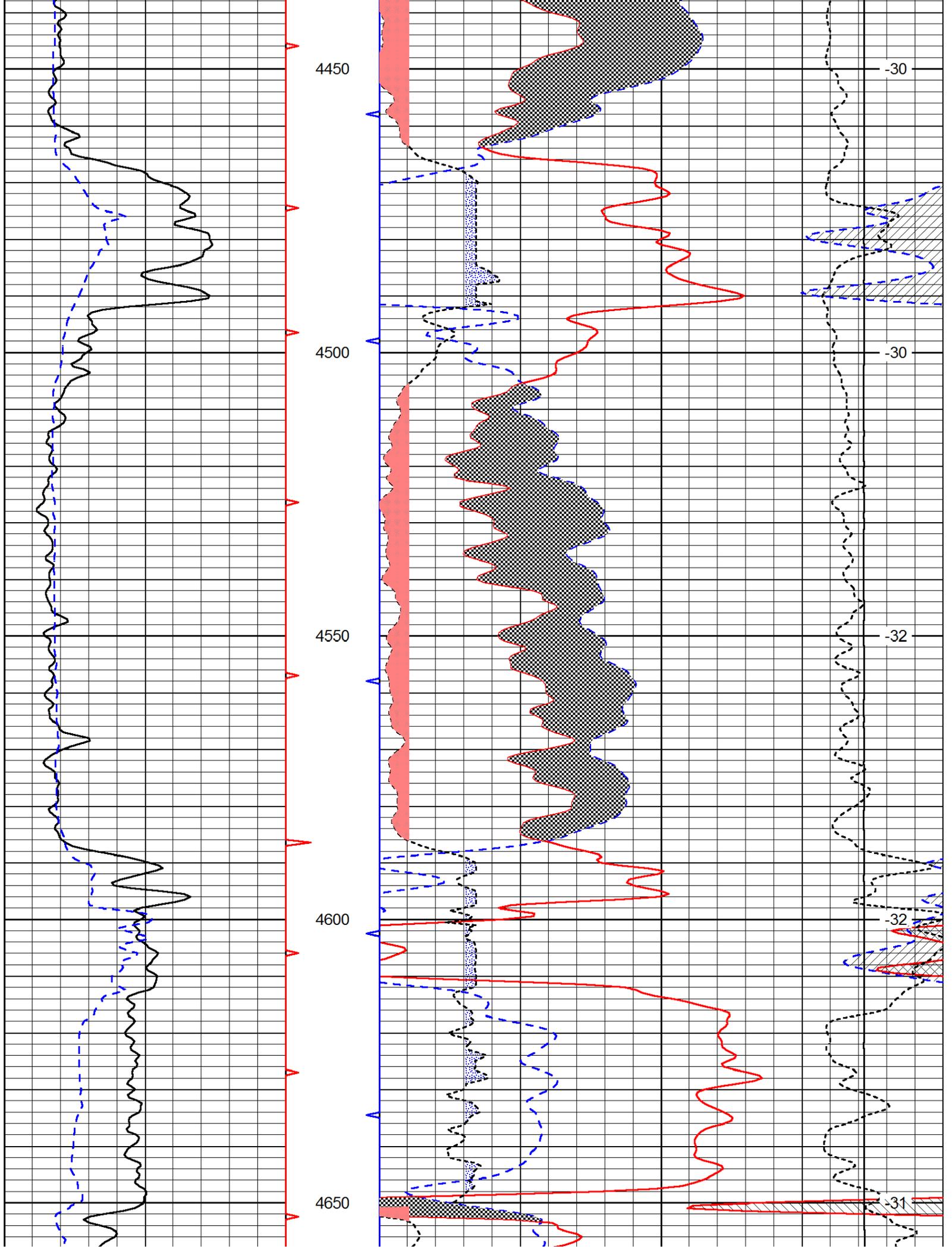


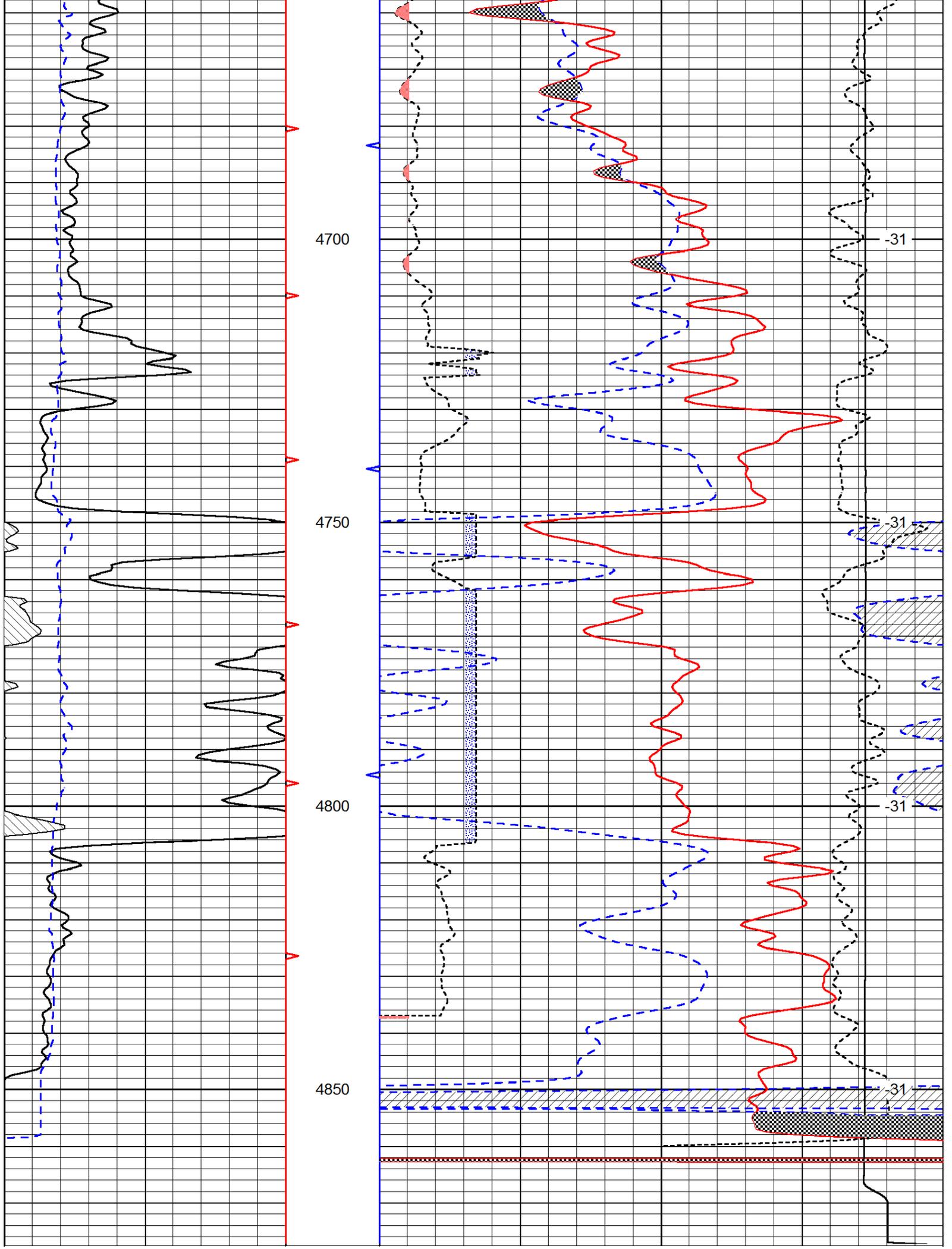












0	Gamma Ray	150
6	Caliper (GAPI)	16

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	