



Pioneer Energy Services

Dual Compensated Porosity Log

15-193-20,883-00-00

API No.

Company **Norstar Petroleum, Inc.**

Well **Barrett Survivors Trust #1-36**

Field **Thomas**

County **Thomas** State **Kansas**

Location **1976' FSL & 1997' FWL**

Sec: **36** Twp: **9S** Rge: **35W**

Permanent Datum **Ground Level** Elevation **3284**

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

Drilling Measured From **Kelly Bushing**

Other Services
DIL
MEL

Elevation

K.B. 3289

D.F. 3284

G.L. 3284

Date **3/7/2013**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4890**

Depth Logger **4893**

Bottom Logged Interval **4872**

Top Logged Interval **3700**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **9.700**

Density **9.2**

Level **Full**

Max. Rec. Temp. F **125**

Operating Rig Time **4 Hours**

Equipment -- Location **17 Hays**

Recorded By **C. Desaire**

Witnessed By **Bob Elder**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	316	8.625	24#	00	316
2	7.875	316	4890				

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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.

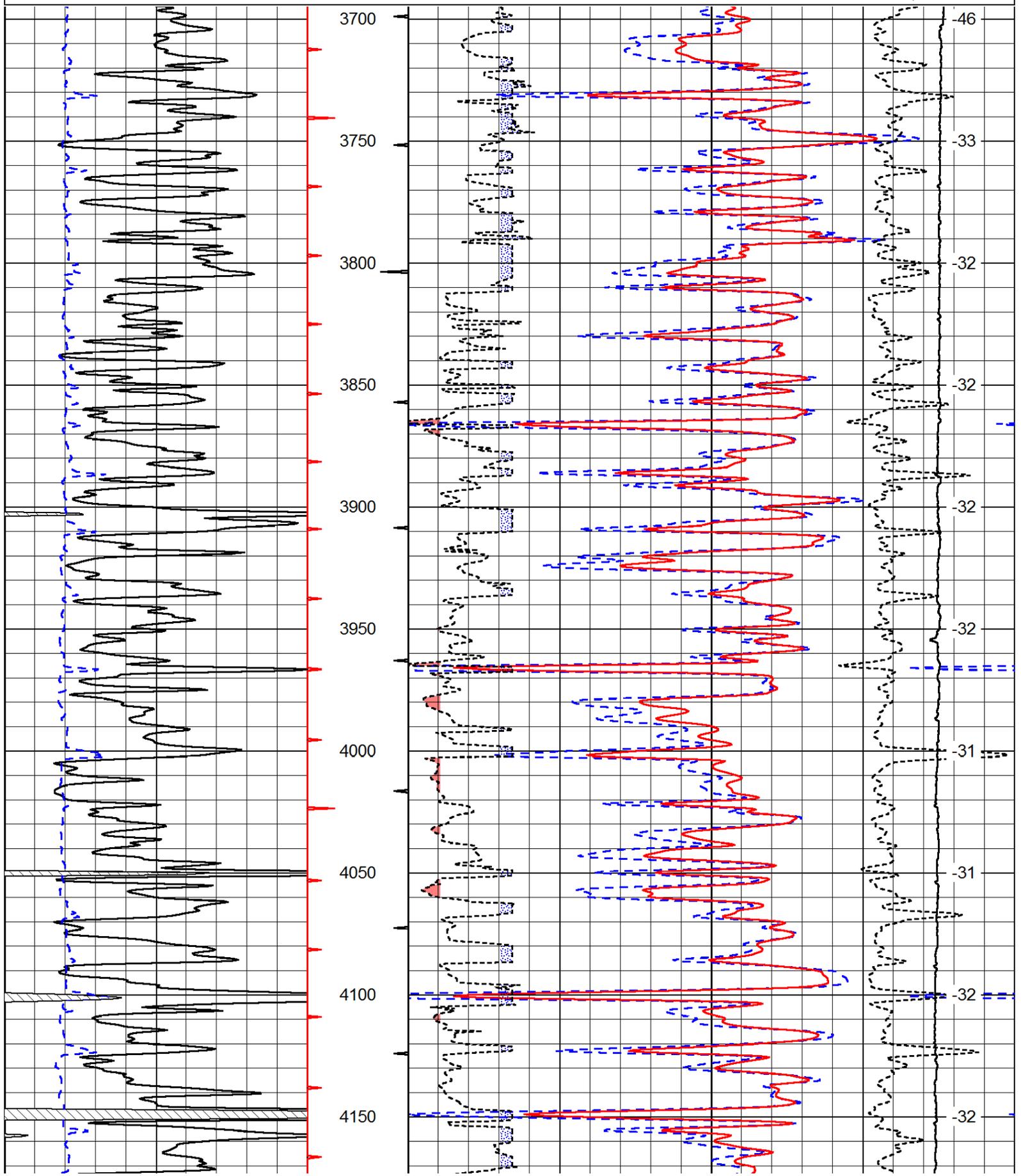
Comments

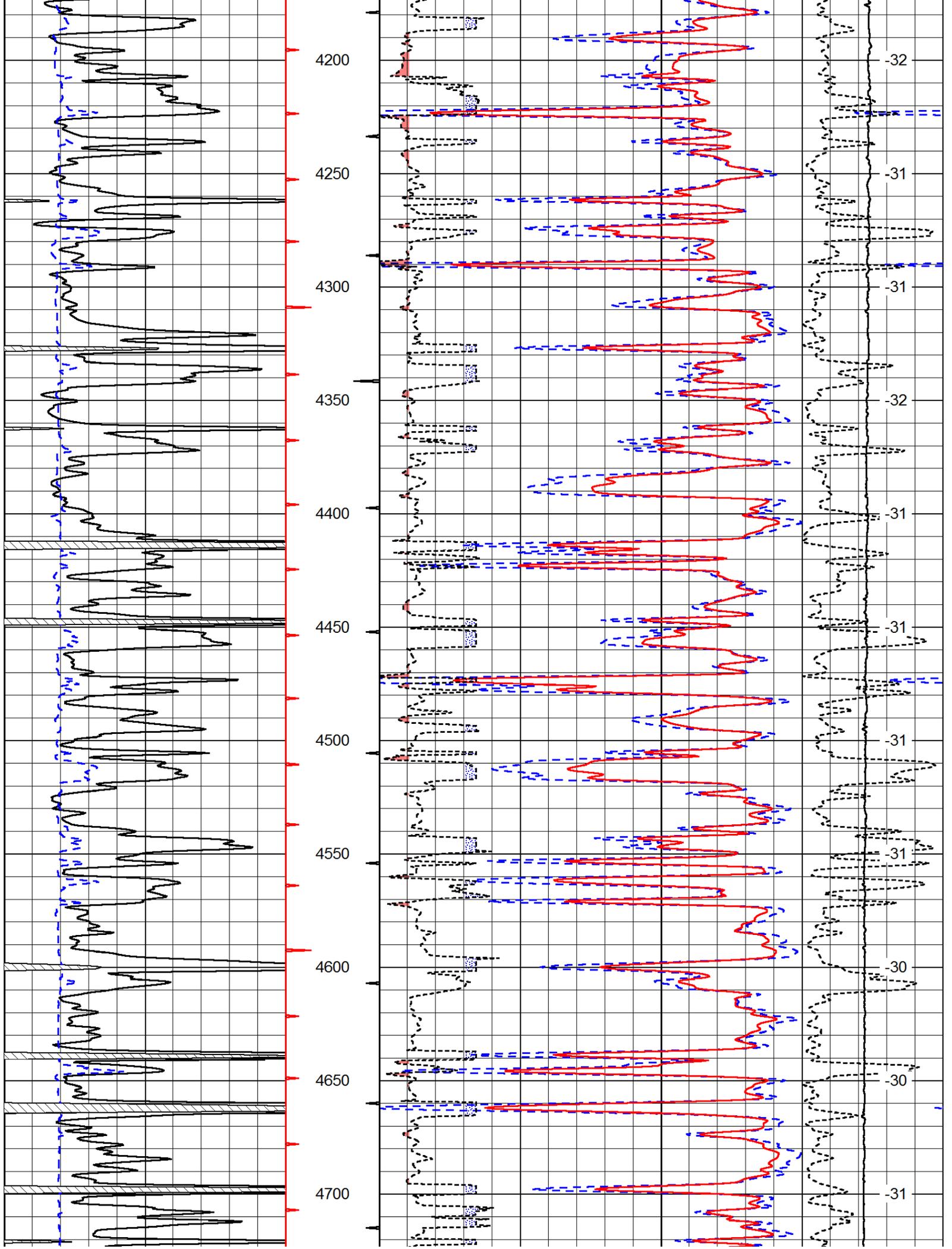
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858
 Levant KS & I-70 Exit, 11 S to G Rd,
 1 1/2 E, N Into

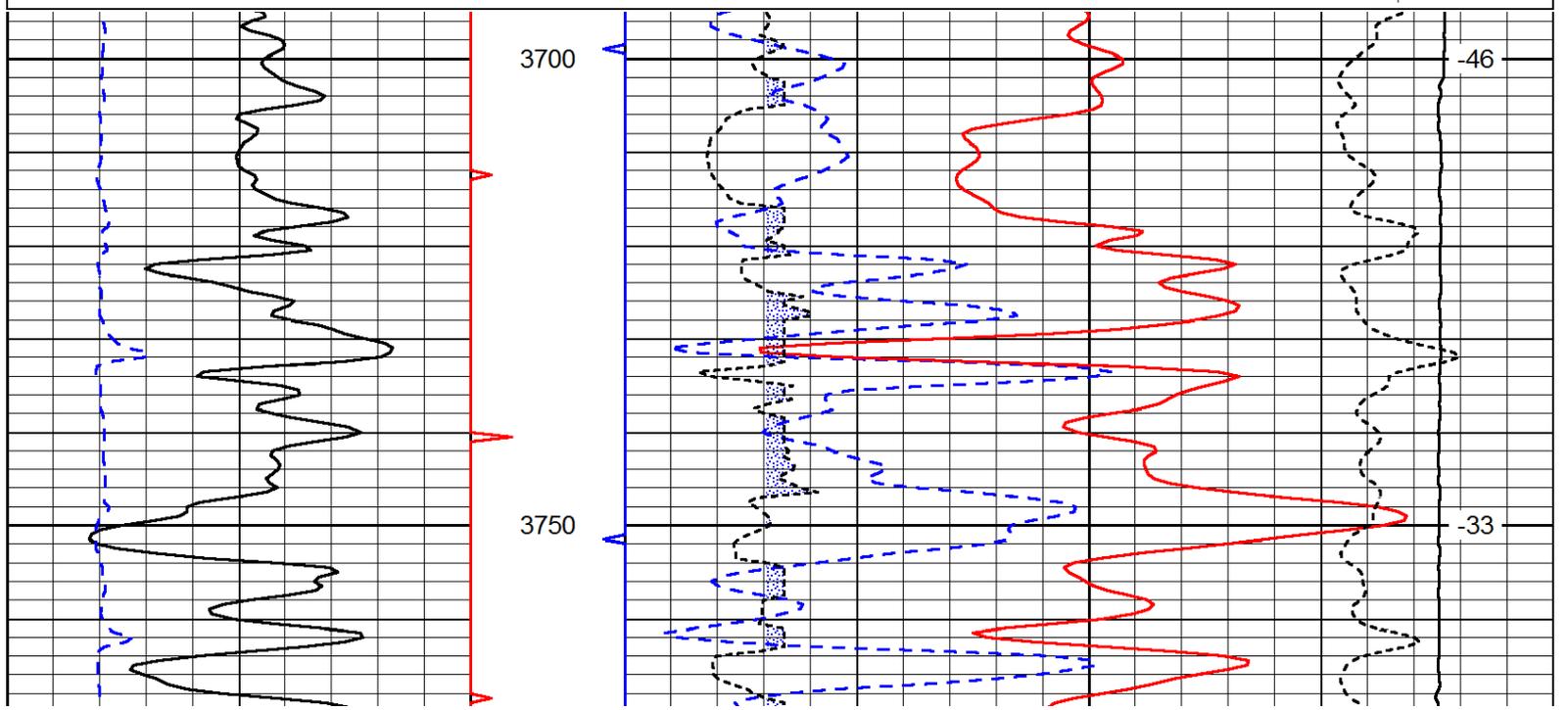
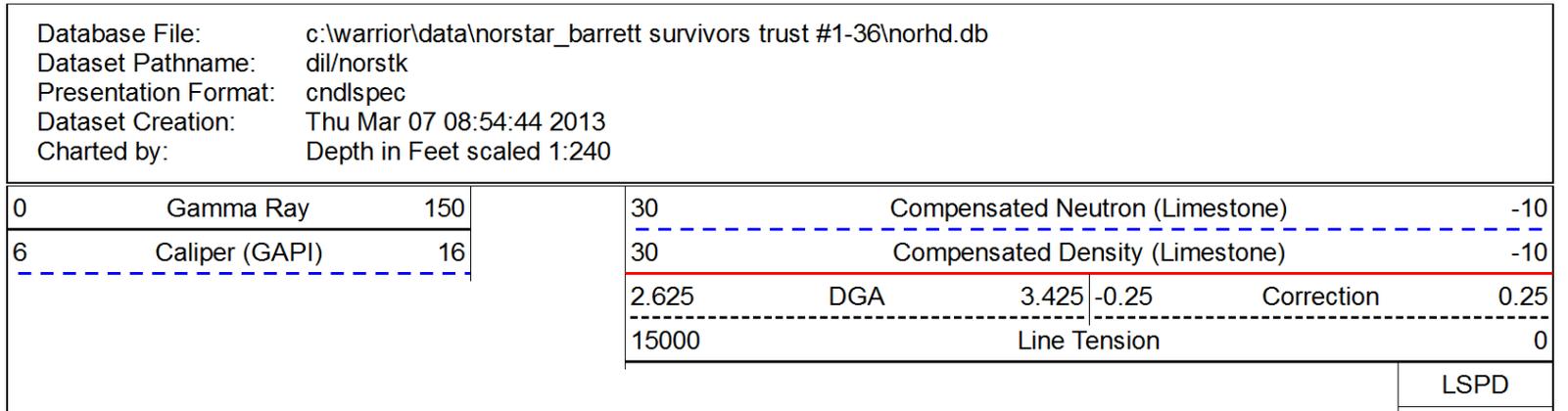
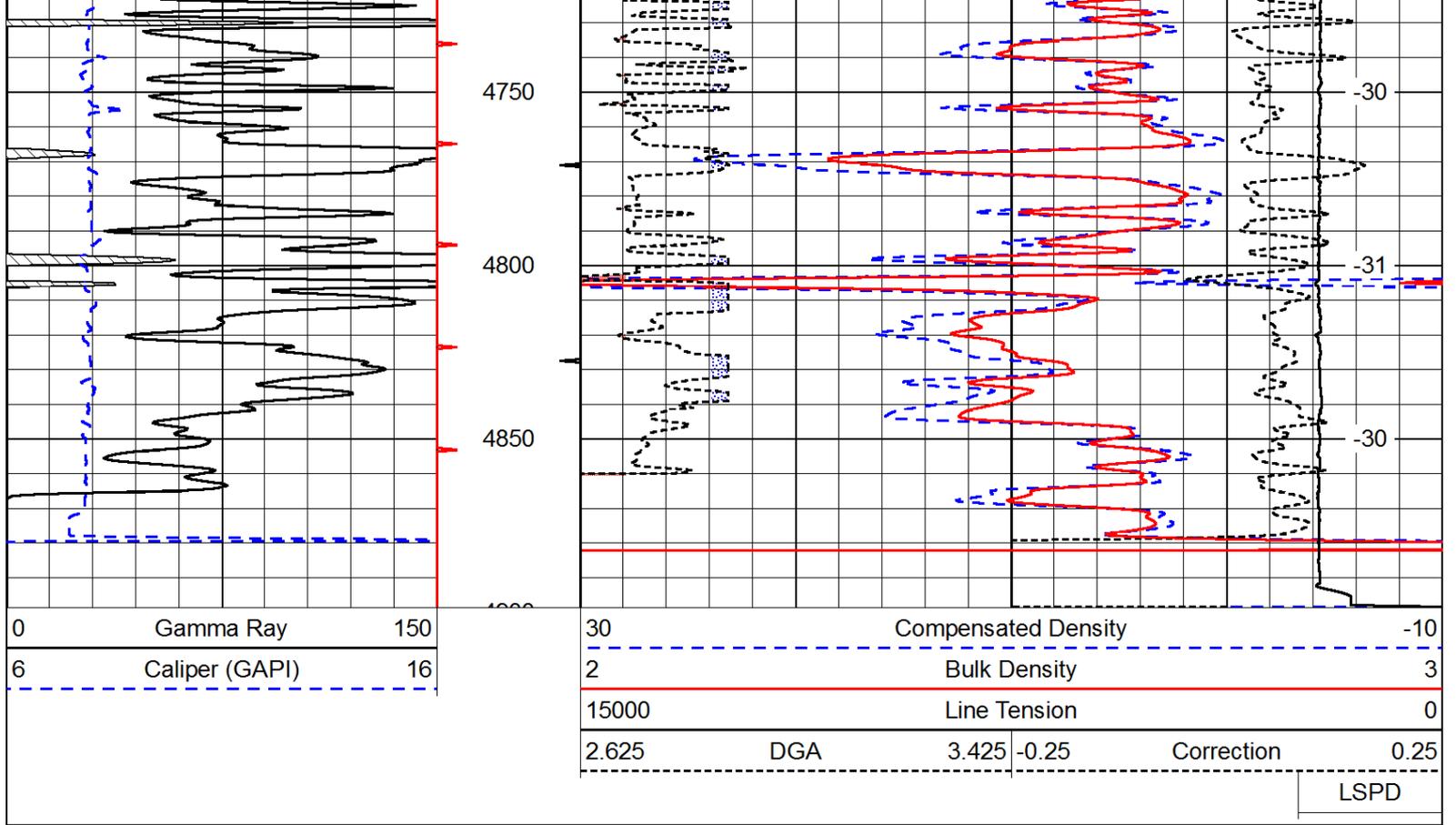
Database File: c:\warrior\data\norstar_barrett survivors trust #1-36\norhd.db
 Dataset Pathname: dil\norstk
 Presentation Format: cdl
 Dataset Creation: Thu Mar 07 08:54:44 2013
 Charted by: Depth in Feet scaled 1:600

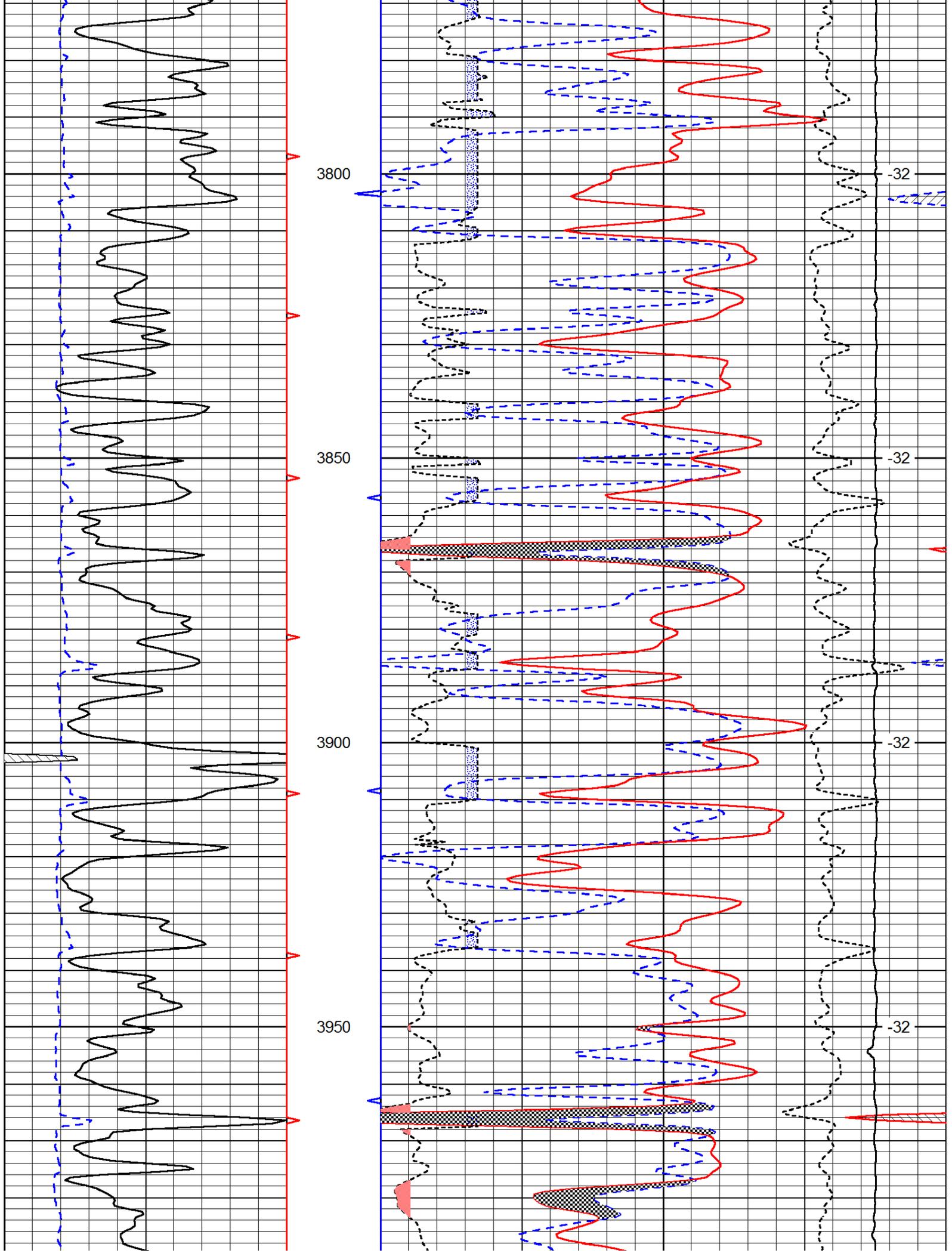
0	Gamma Ray	150
6	Caliper (GAPI)	16

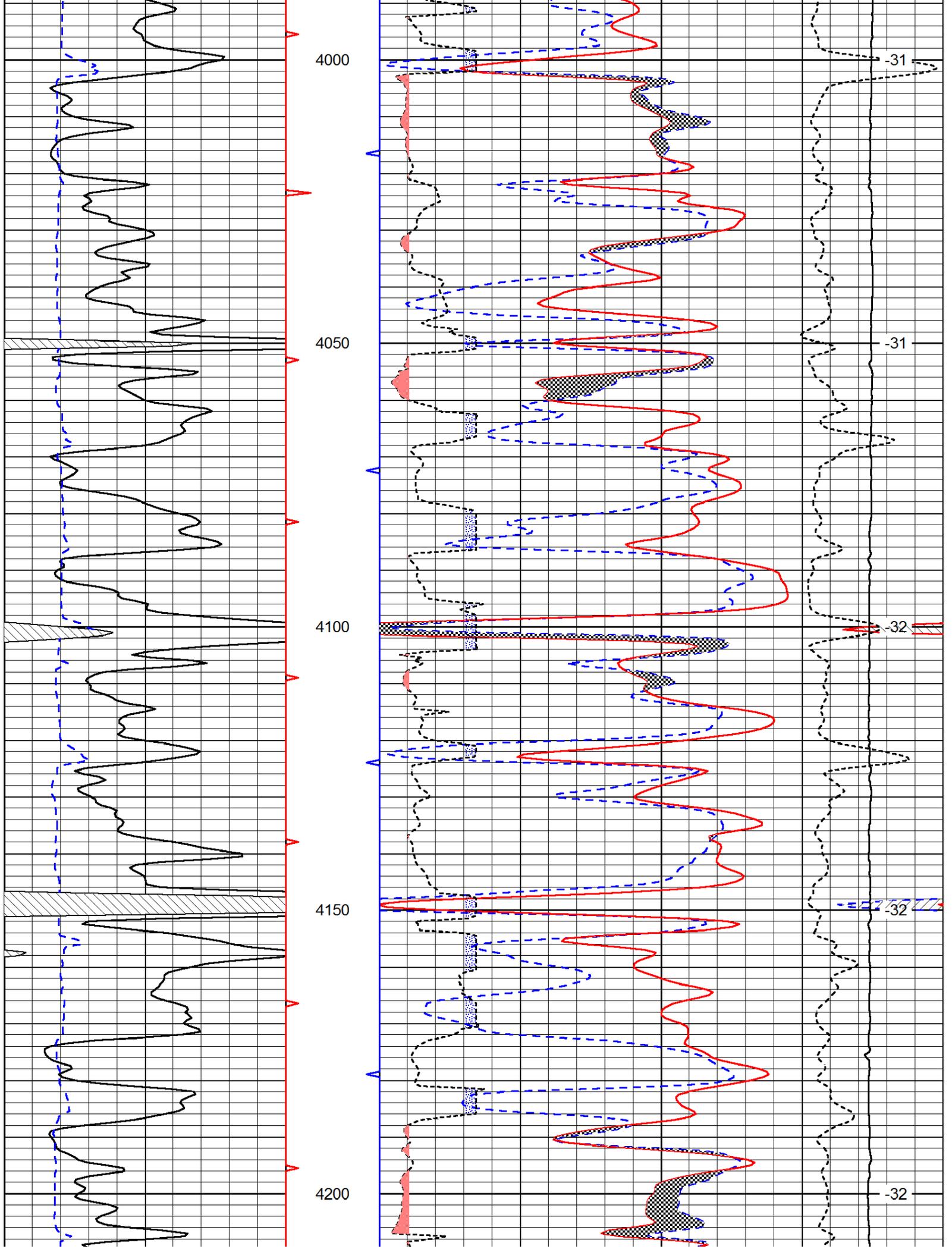
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

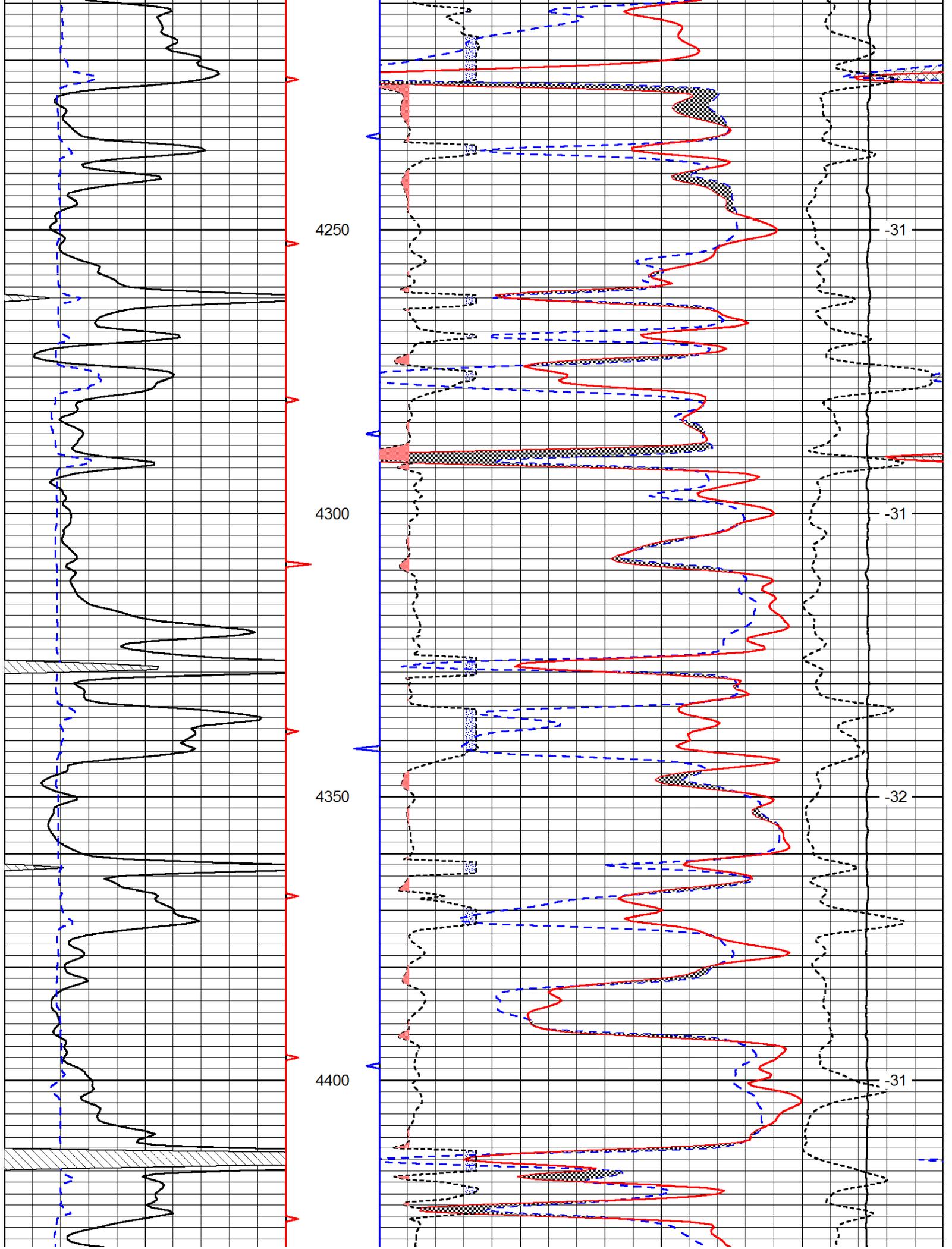


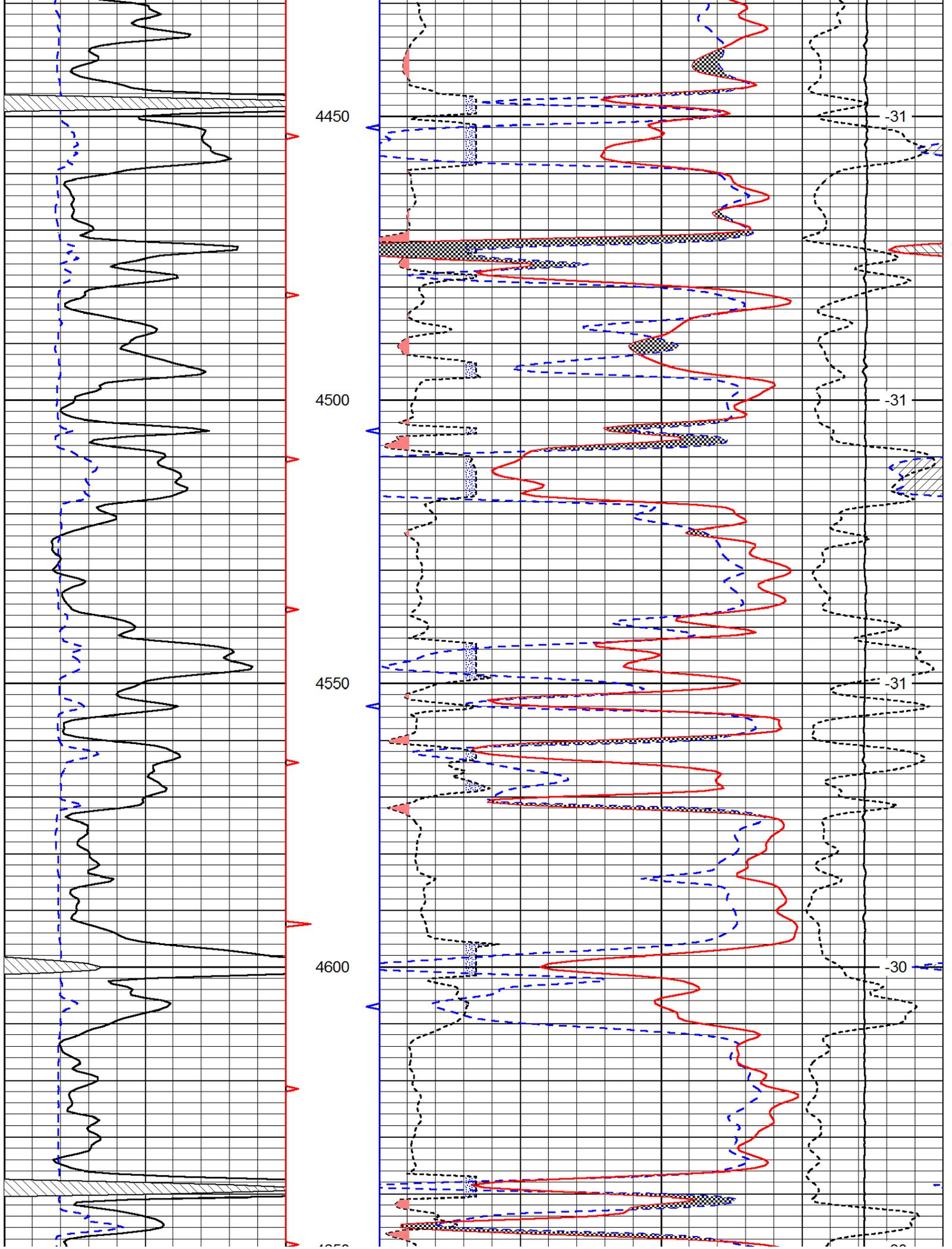


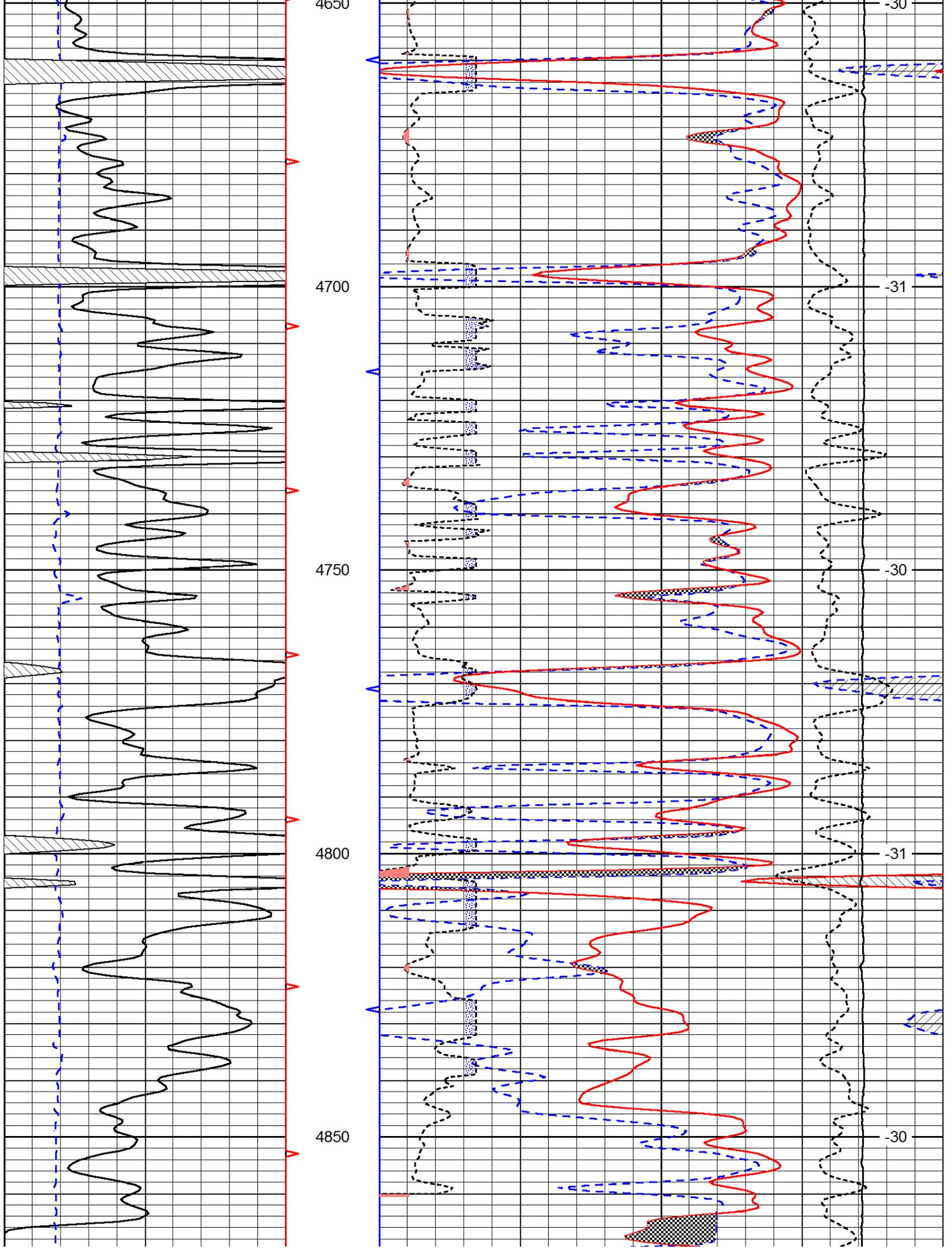


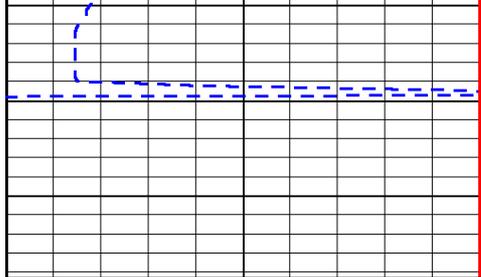




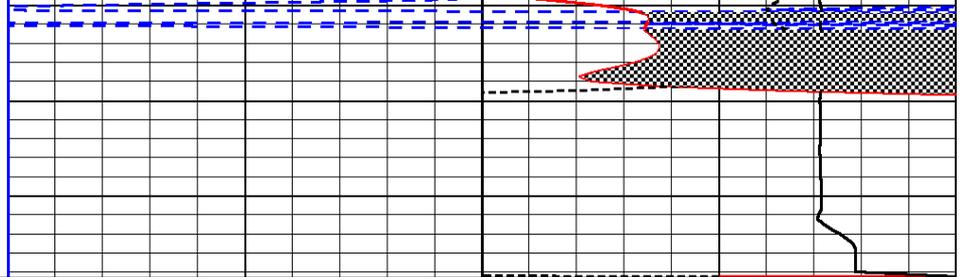








0	Gamma Ray	150
6	Caliper (GAPI)	16



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