



Pioneer Energy Services

Dual Compensated Porosity Log

15-135-25,582-00-00

API No.

Company **American Warrior, Inc.**
 Well **Dianne #2-20**
 Field **Hinnergardt**
 County **Ness** State **Kansas**

Location **2310' FNL & 1600' FEL**
 Sec: **20** Twp: **19S** Rge: **21W**

Permanent Datum **Ground Level** Elevation **2276**
 Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Other Services
DIL
 Elevation
 K.B. **2284**
 D.F. **2276**
 G.L. **2276**

Date	5/3/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	4400
Depth Logger	4400
Bottom Logged Interval	4379
Top Logged Interval	3700
Type Fluid In Hole	Chemical
Salinity, PPM CL	6,800
Density	9.4
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	2 Hours
Equipment -- Location	17 Hays
Recorded By	C. Desaire
Witnessed By	Jason Alm

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	219	8.625	24#	00	219
2	7.875	219	4400				

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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

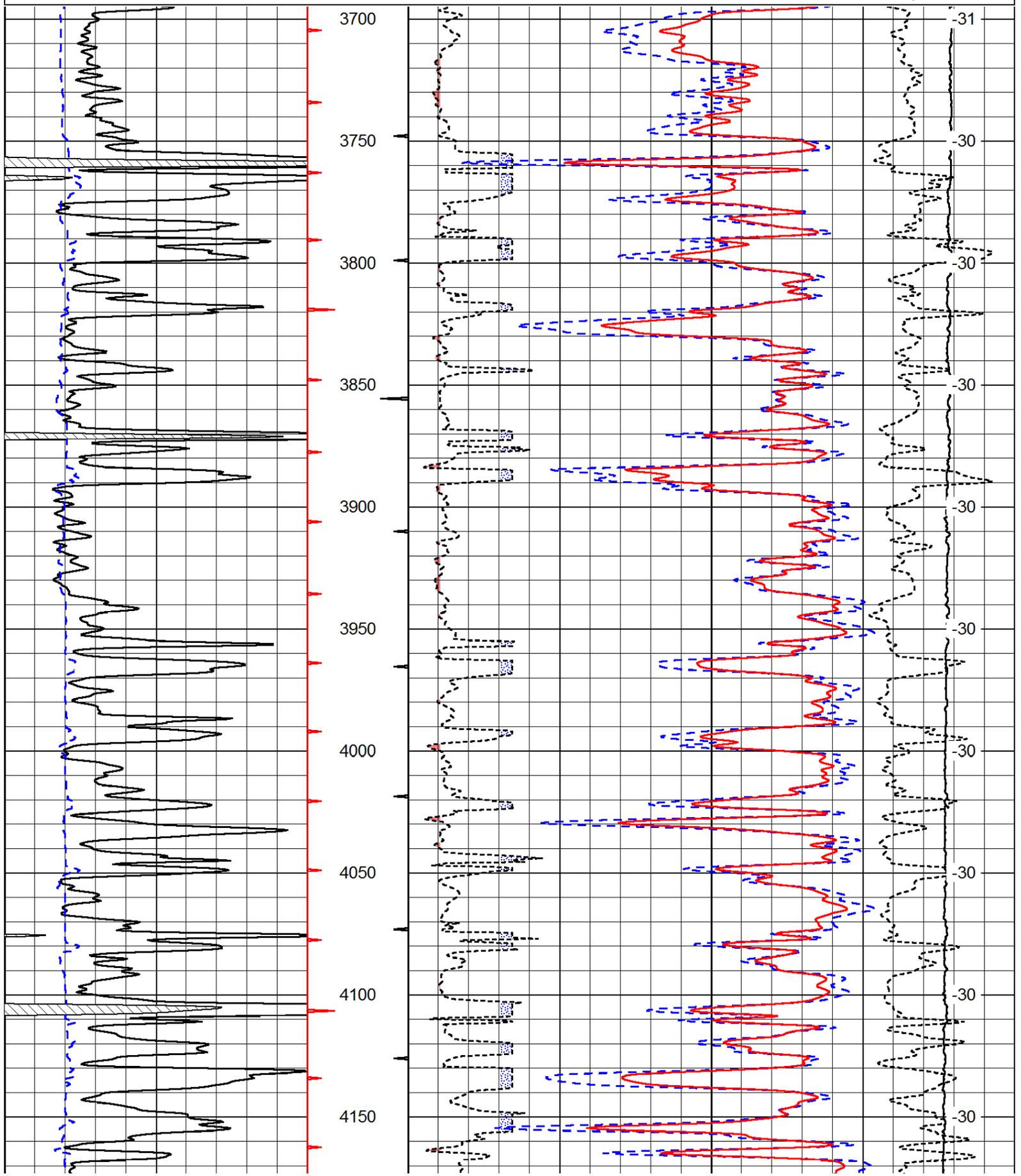
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

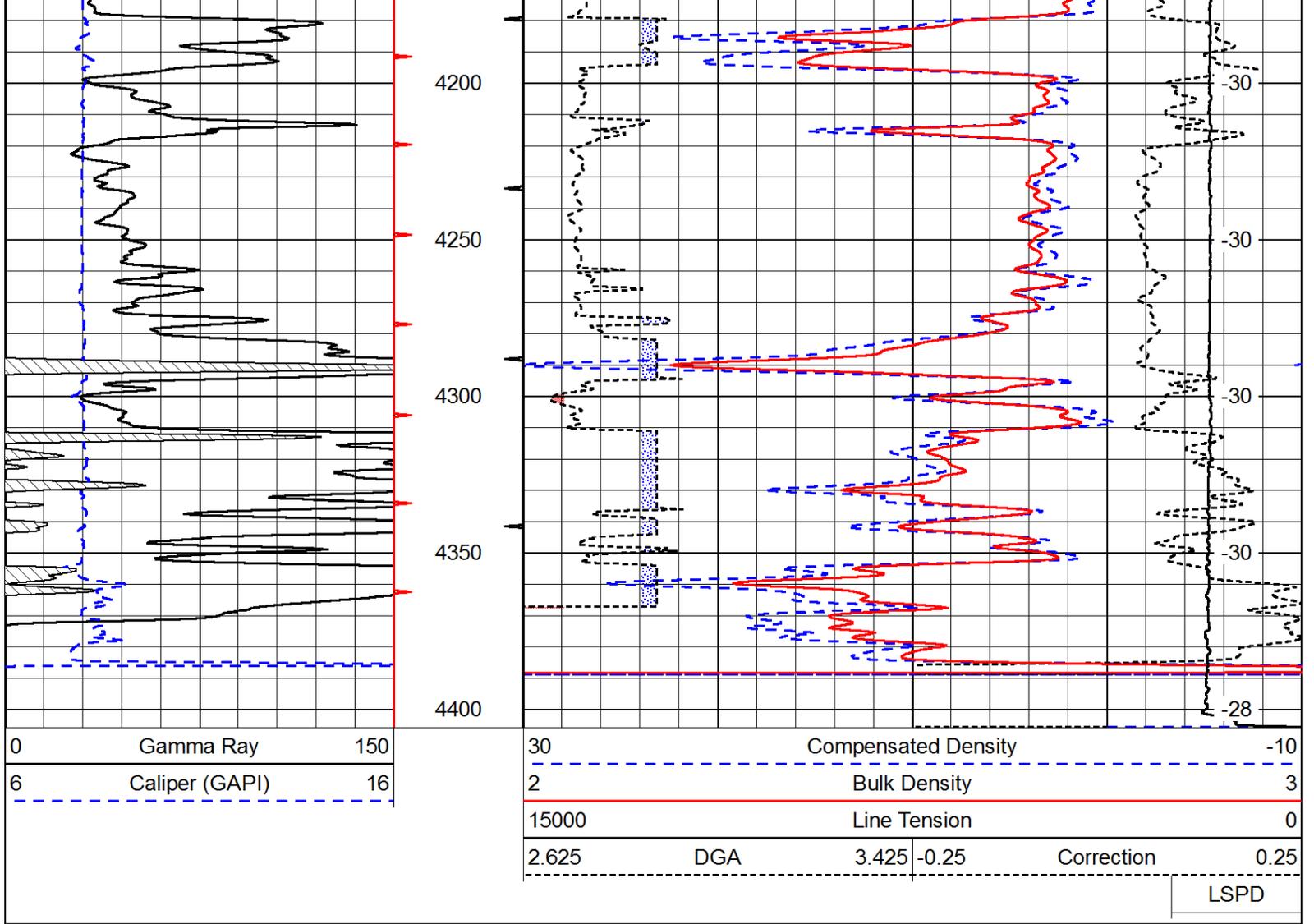
 Alexander KS, 4 1/2 W to GG Rd, 3 S to 100 Rd,
 1 W, 1 S, 1/4 W, S Into

Database File: c:\warrior\data\amwar_dianne no.2-20\awhd.db
 Dataset Pathname: dil/awstk
 Presentation Format: cdl
 Dataset Creation: Fri May 03 03:17:21 2013
 Charted by: Depth in Feet scaled 1:600

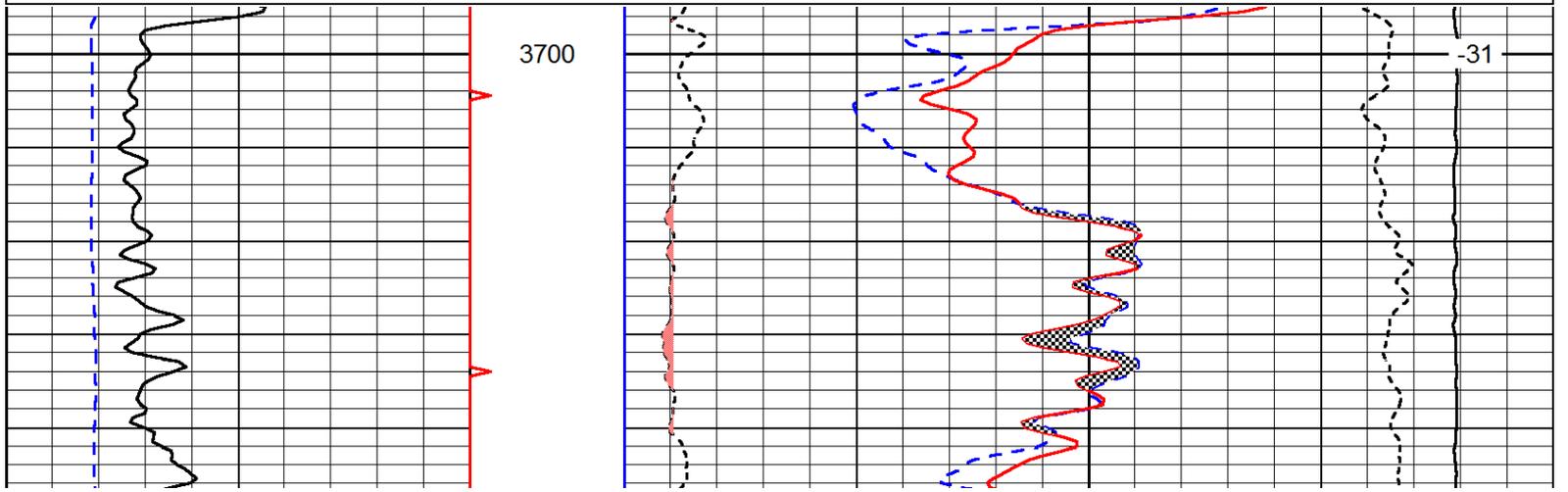
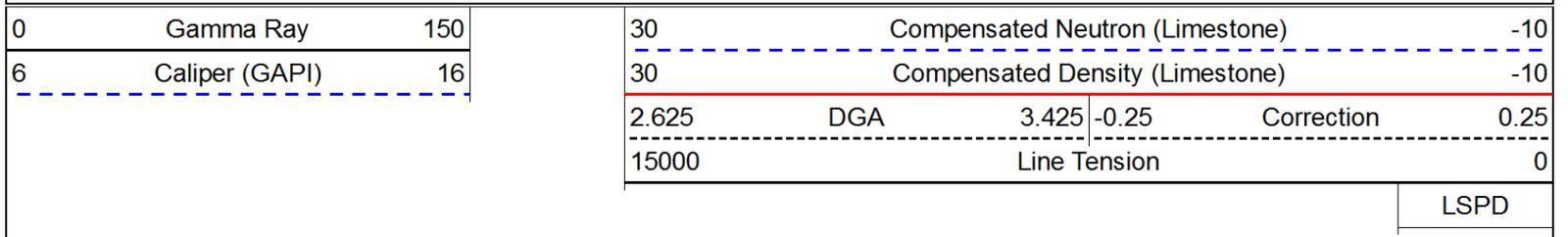
0	Gamma Ray	150
6	Caliper (GAPI)	16

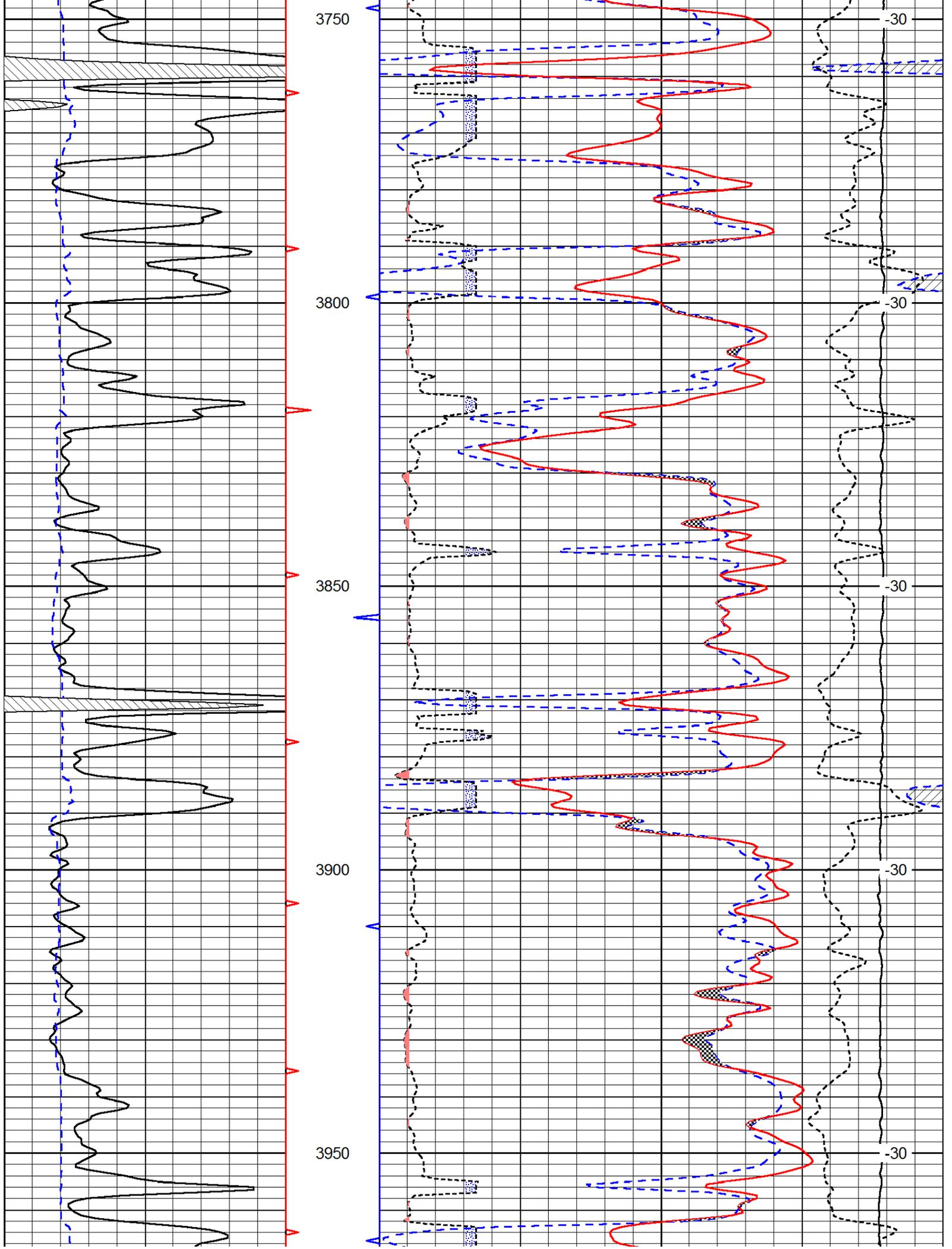
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

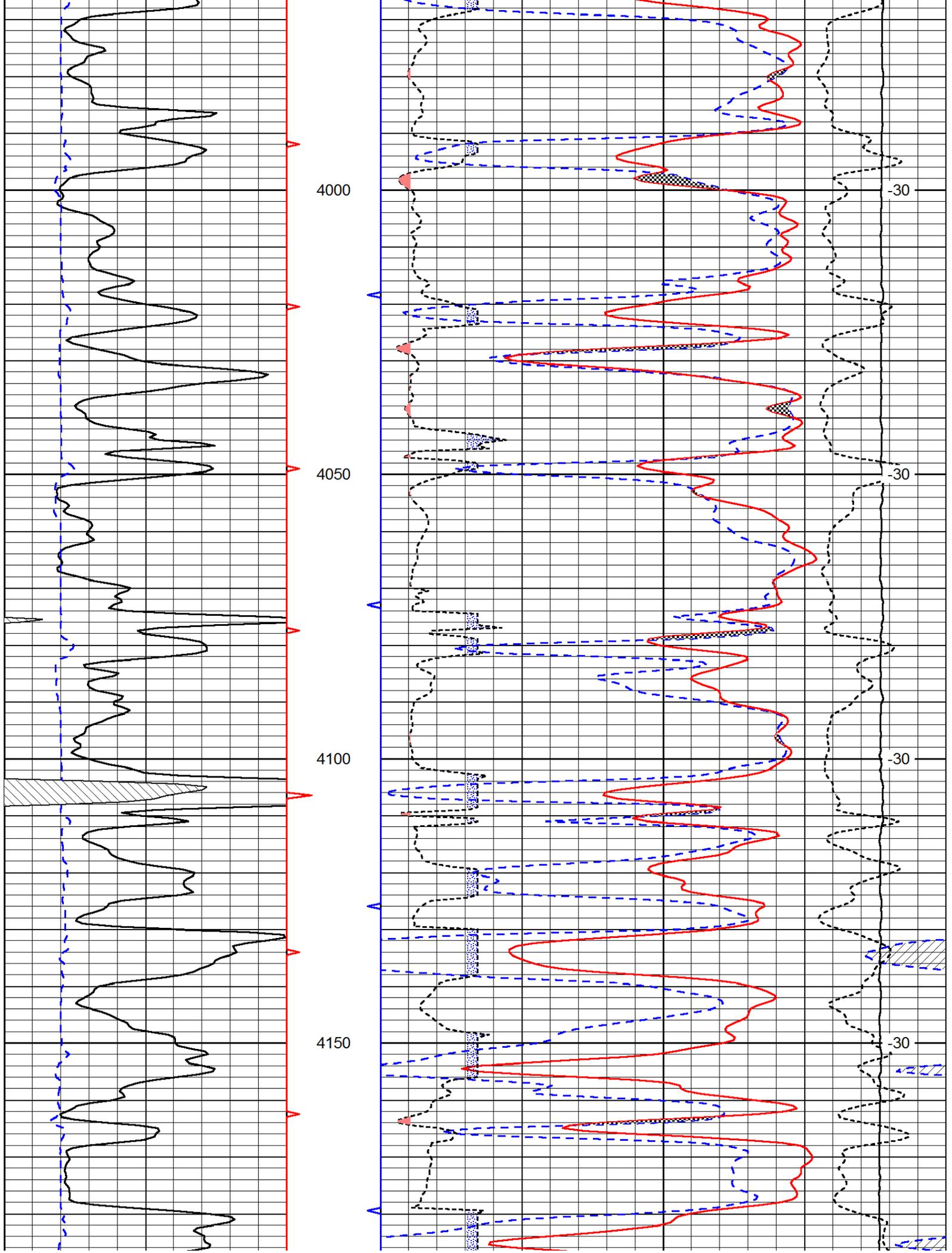


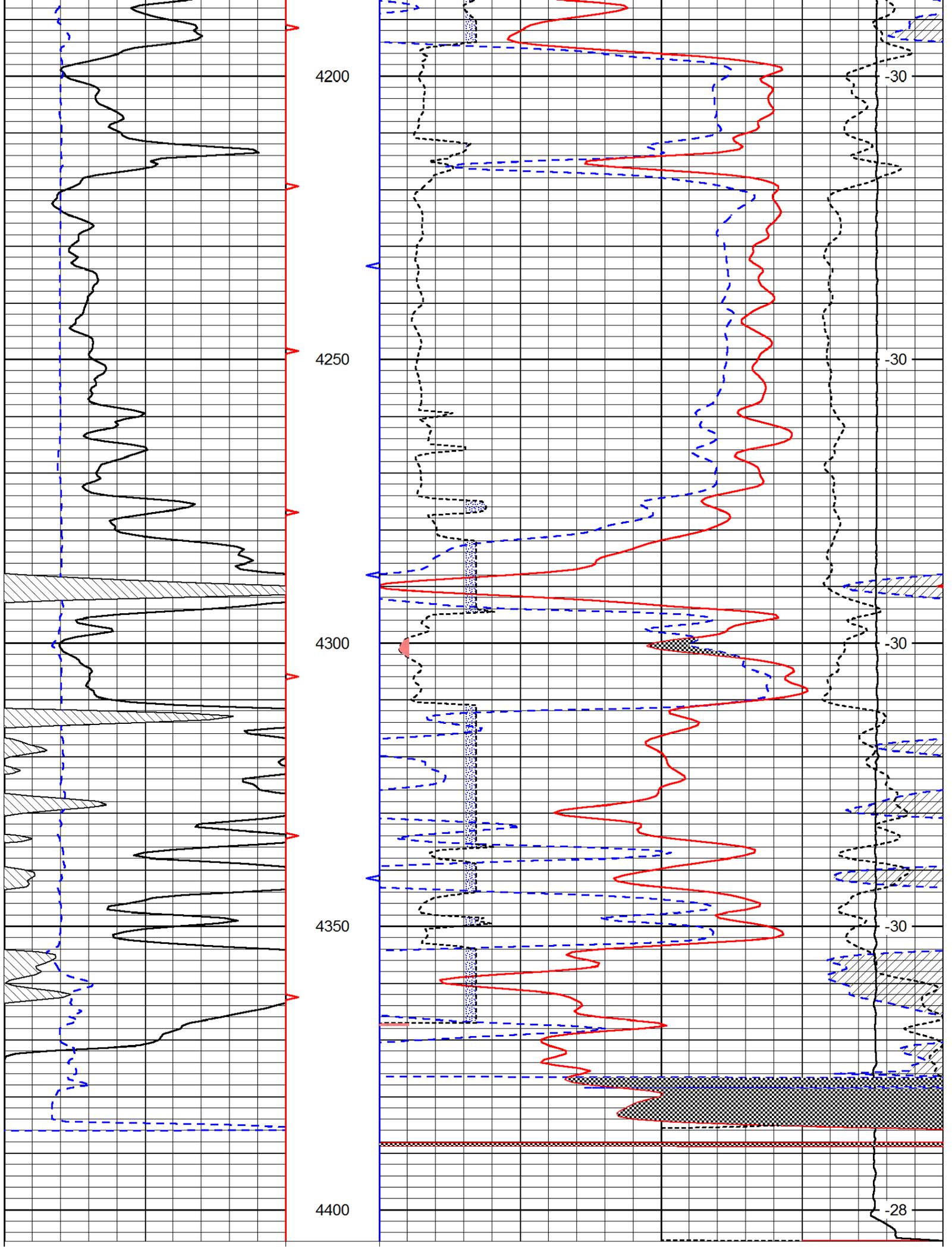


Database File: c:\warrior\data\amwar_dianne no.2-20\awhd.db
 Dataset Pathname: dil/awstk
 Presentation Format: cndlspec
 Dataset Creation: Fri May 03 03:17:21 2013
 Charted by: Depth in Feet scaled 1:240









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	