



Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-065-23848-00-00

Company American Warrior, Inc.
Well Berland #1-12
Field Unnamed
County Graham State Kansas

Location 339' FSL & 1400' FEL

Sec: 12 Twp: 8S Rge: 21W

Other Services
DIL
MEI/BHCS

Permanent Datum Ground Level Elevation 2028
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2038
D.F.
G.L. 2028

Date 8/15/2012

Run Number One

Type Log CNL / CDL

Depth Driller 3650

Depth Logger 3651

Bottom Logged Interval 3630

Top Logged Interval 2800

Type Fluid In Hole Chemical

Salinity, PPM CL 1800

Density 9.1

Level Full

Max. Rec. Temp. F 115

Operating Rig Time 5 Hours

Equipment -- Location 91 Days

Recorded By D. Schmidt

Witnessed By Jeff Lawler

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

1 12.25 00 222 8.625 24# 00 222

2 7.8785 222 3650

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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.

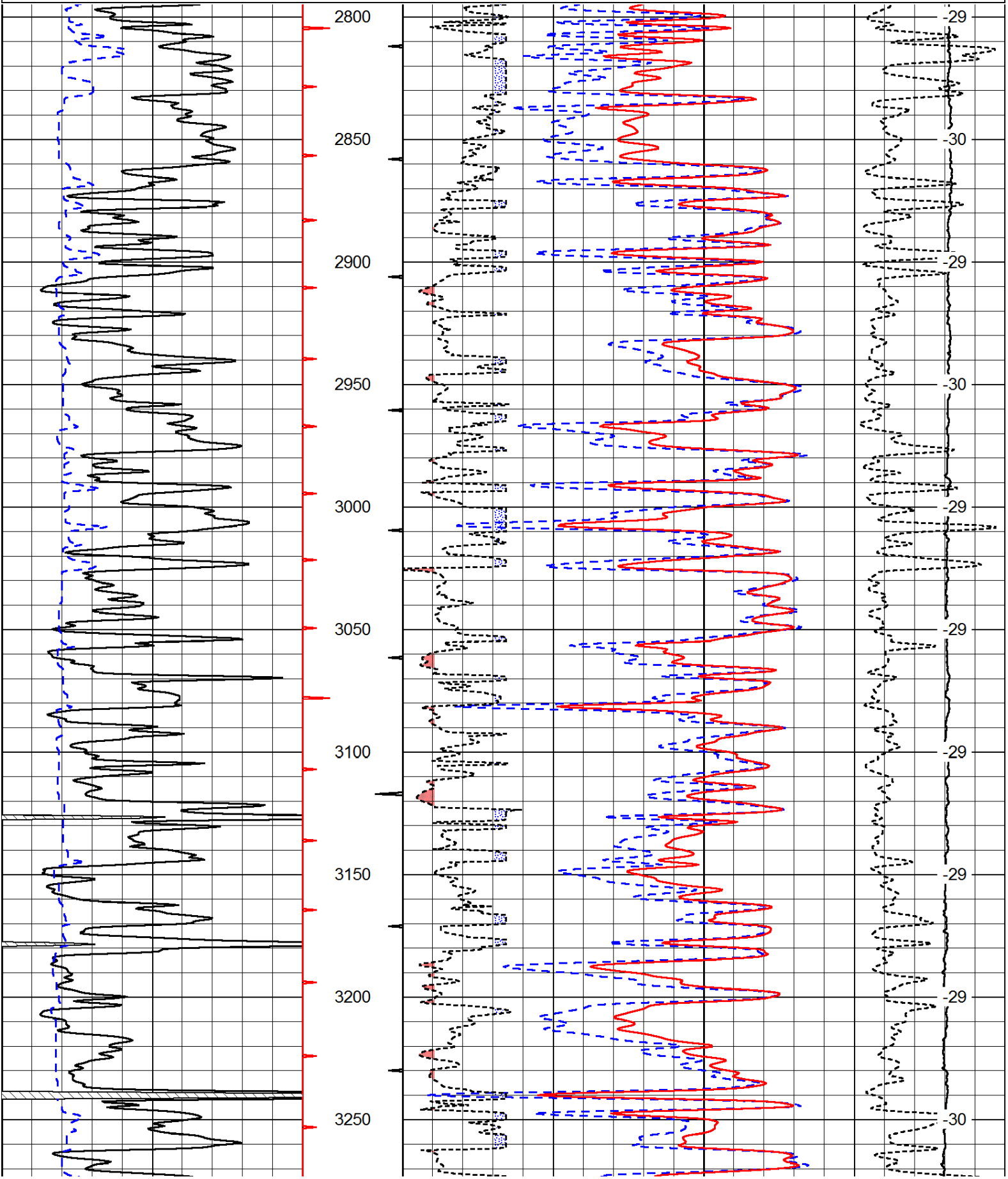
Comments

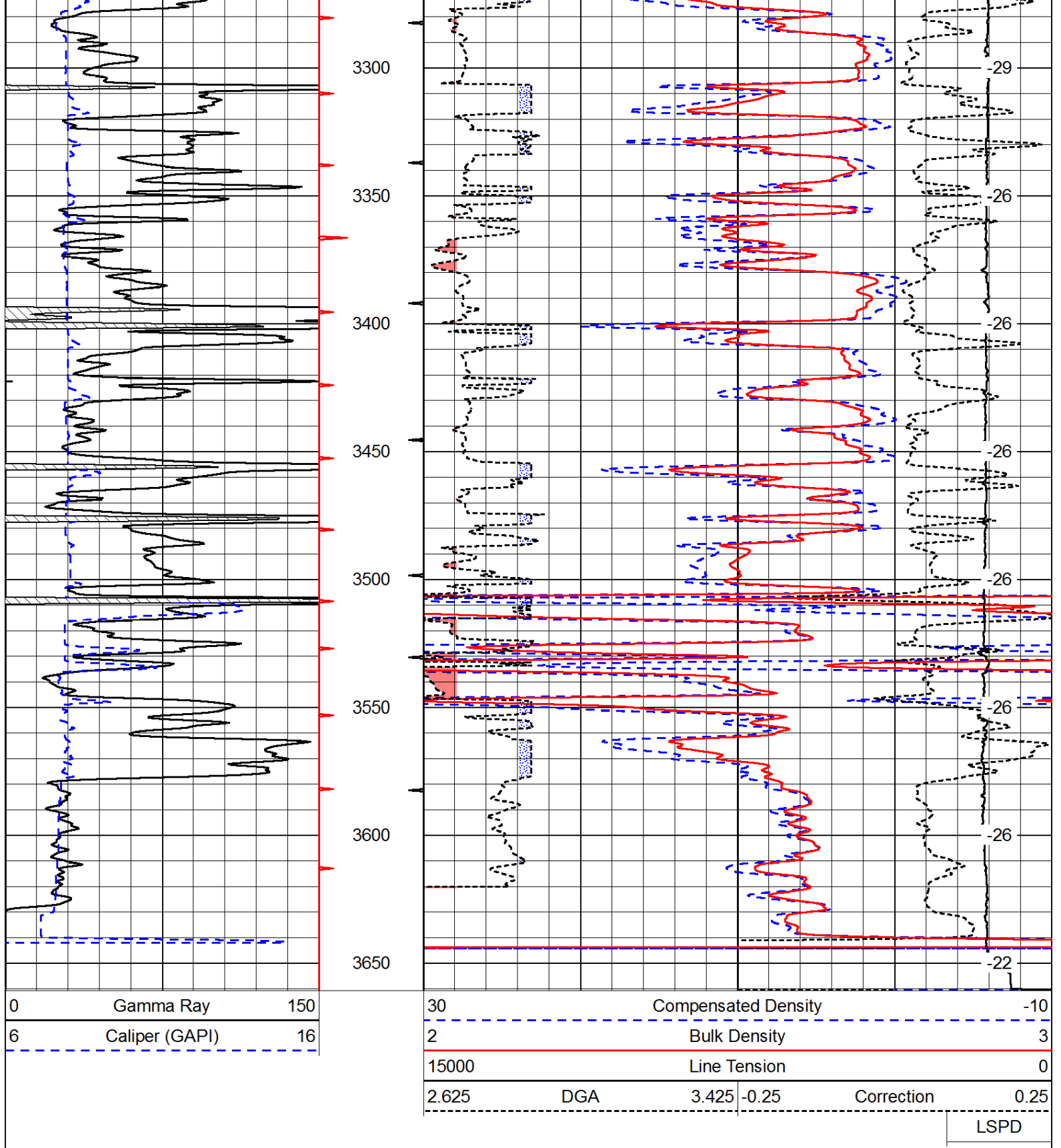
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Damar,
2 1/2 North on Rd 2 to O Rd, 1 West,
West into

Database File: c:\warrior\data\amwar_berland #1-12\amwar_081512hd.db
Dataset Pathname: dil/awstack
Presentation Format: cdl
Dataset Creation: Wed Aug 15 07:27:51 2012
Charted by: Depth in Feet scaled 1:600

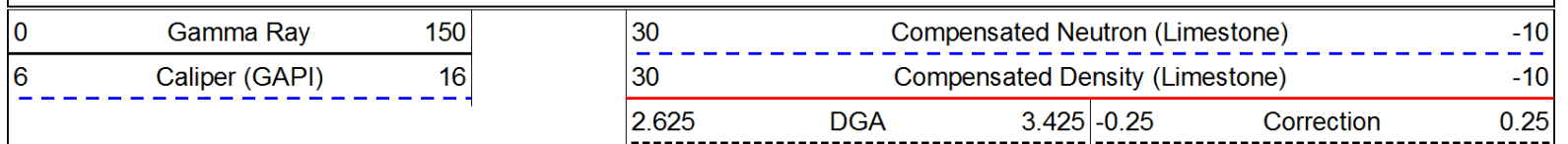
0	Gamma Ray	150
6	Caliper (GAPI)	16

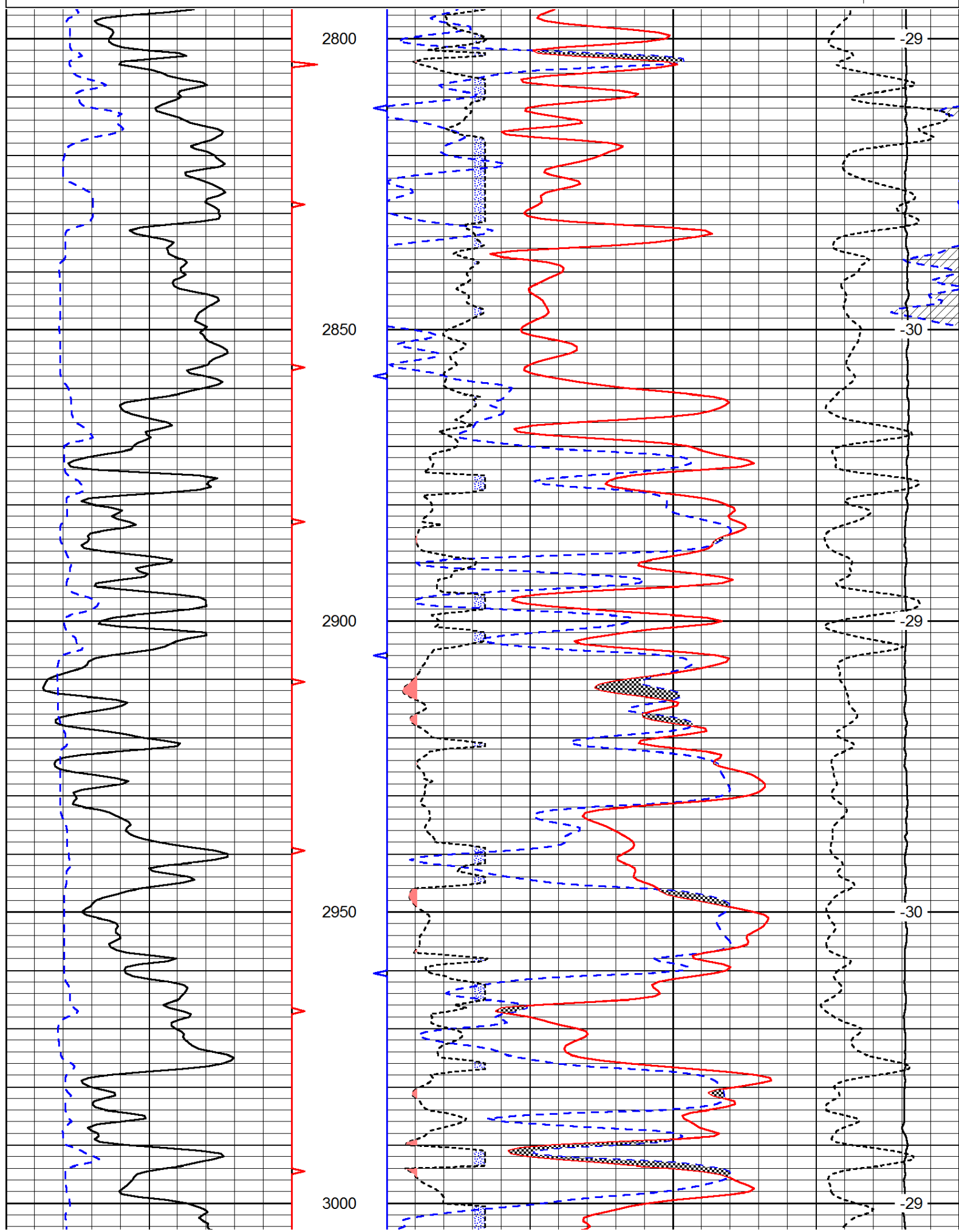
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
		Correction	0.25
LSPD			

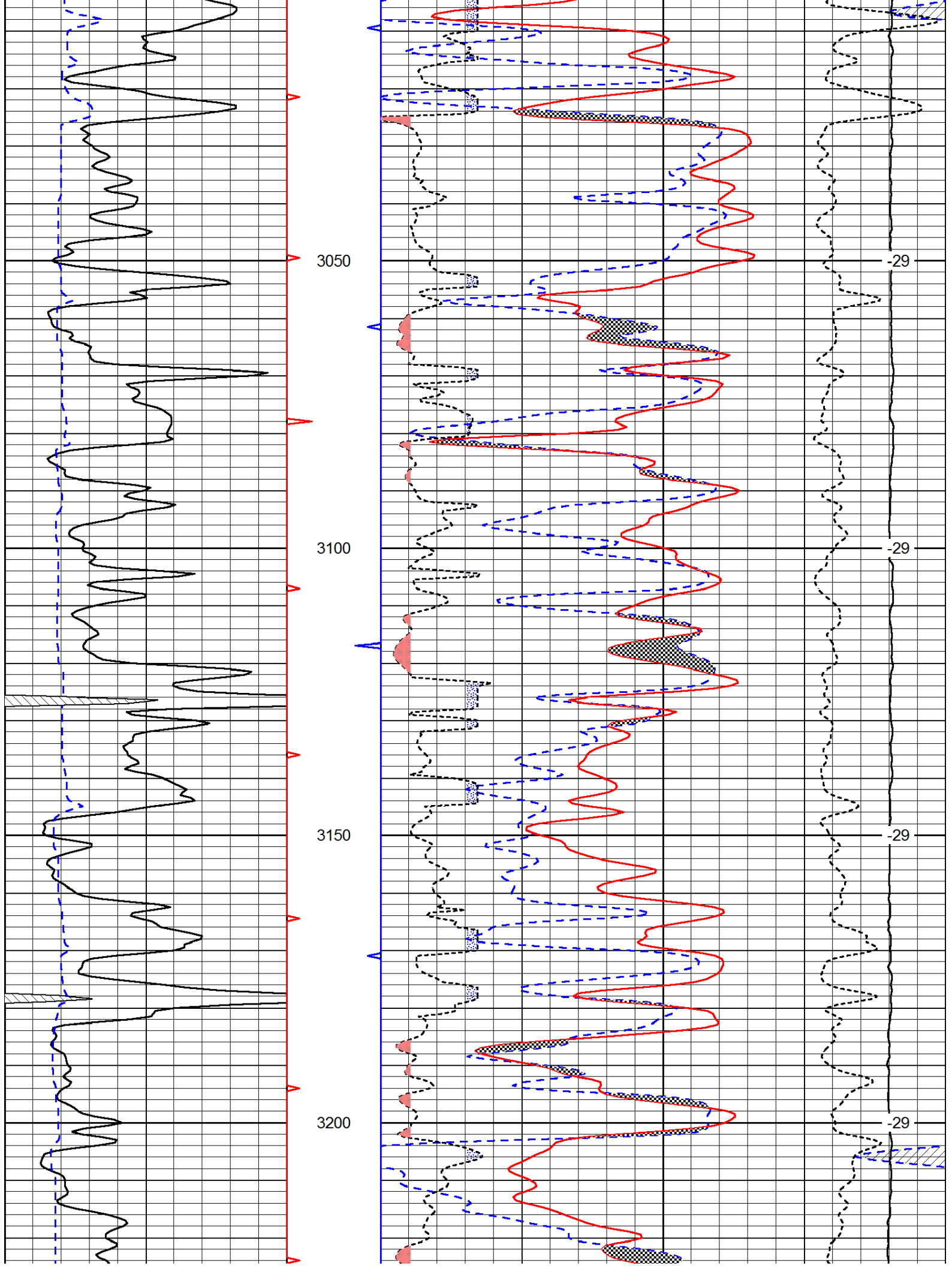


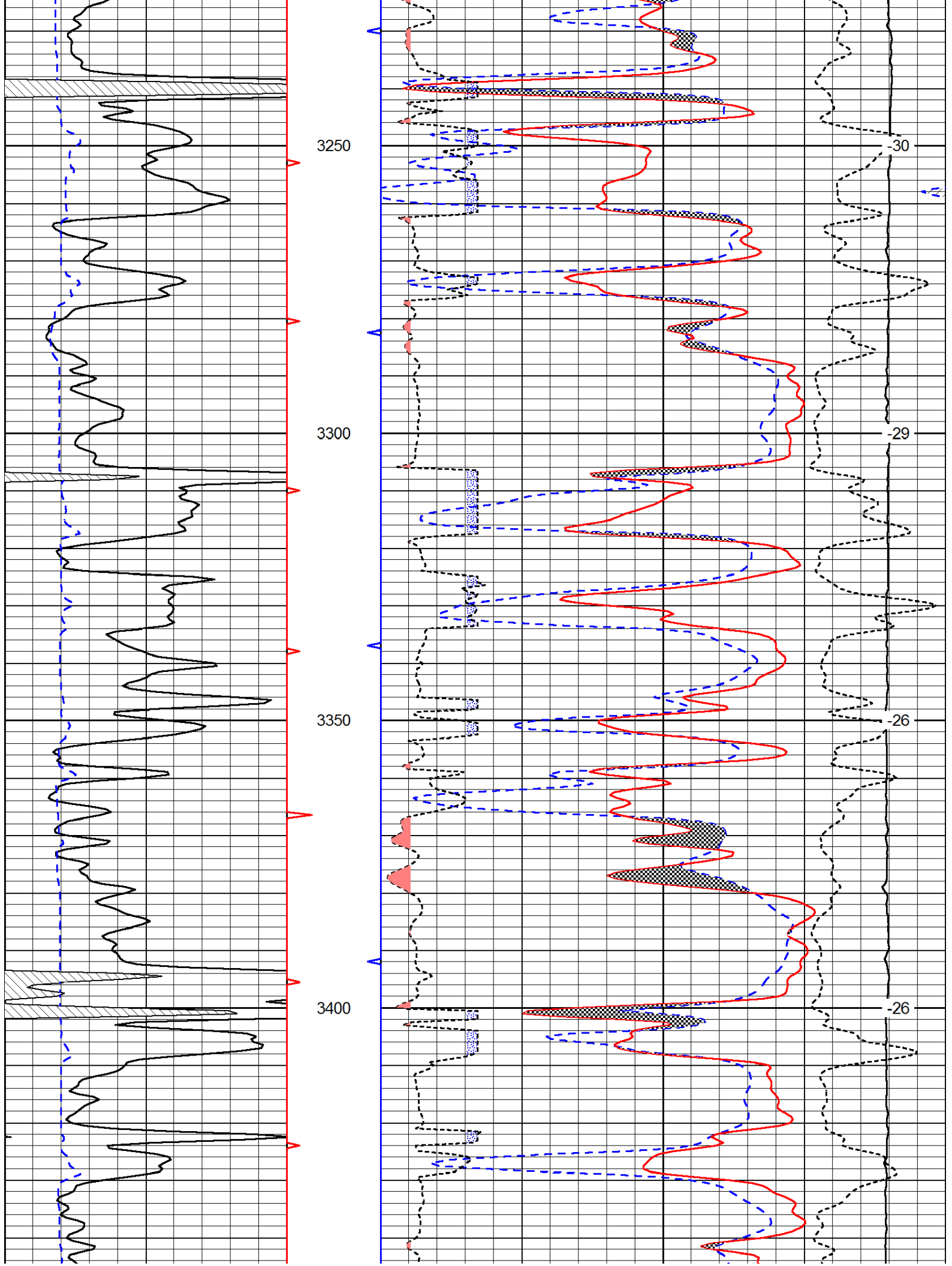


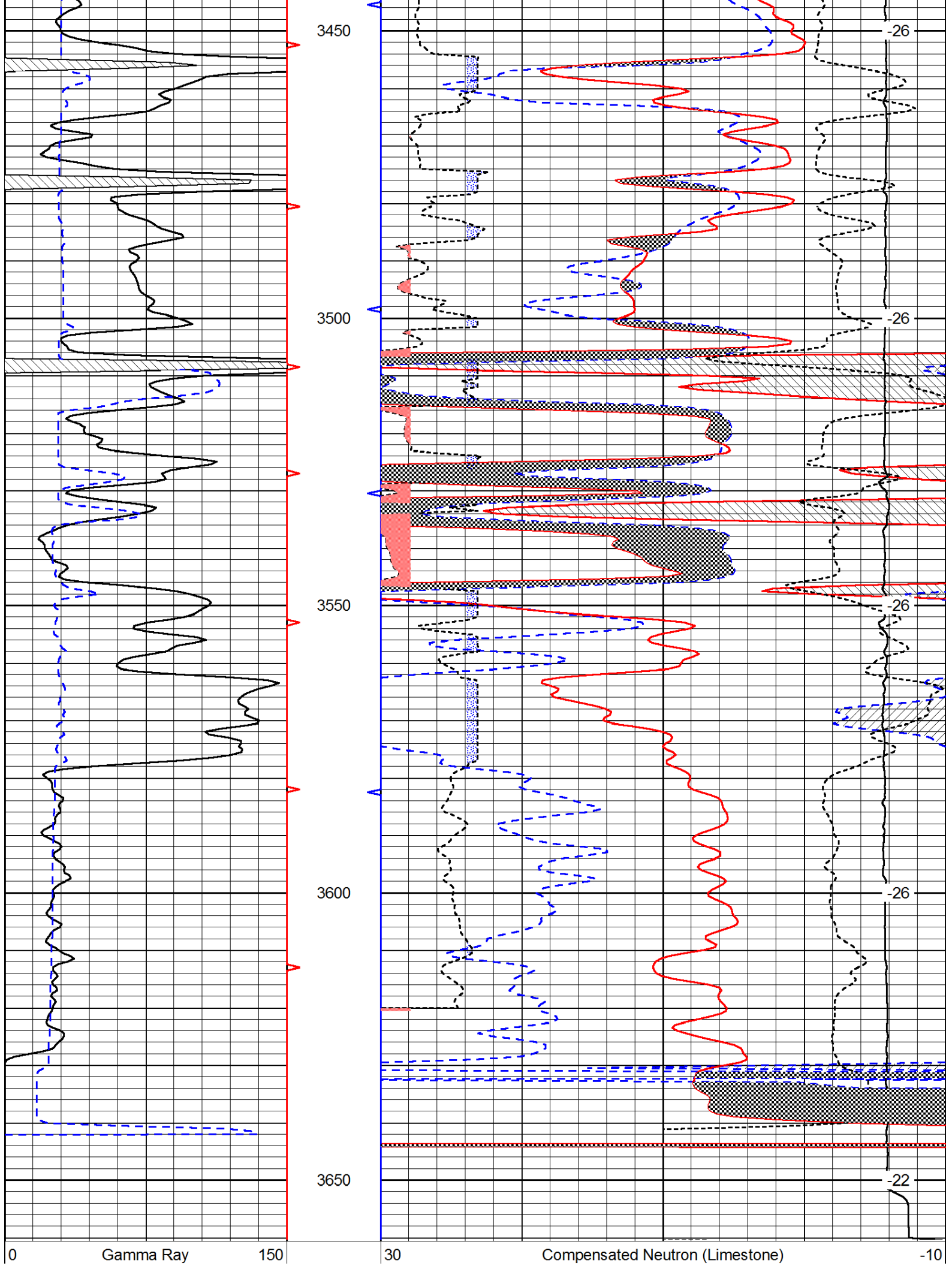
Database File: c:\warrior\data\amwar_berland #1-12\amwar_081512hd.db
 Dataset Pathname: dil/awstack
 Presentation Format: cndlspec
 Dataset Creation: Wed Aug 15 07:27:51 2012
 Charted by: Depth in Feet scaled 1:240











6	Caliper (GAPI)	16

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