



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-167-23,916-00-00

Company American Warrior, Inc.

Well Eulert No. 18-35

Field Eulert

County Russell

State Kansas

Location 900' FSL & 625' FWL

Other Services
DIL/MEL

Sec: 35 Twp: 11S Rge: 15W

Permanent Datum Ground Level Elevation 1803
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1811
D.F. 1811
G.L. 1803

Date 11/5/13

Run Number One

Type Log CNL / CDL

Depth Driller 3366

Depth Logger 3369

Bottom Logged Interval 3348

Top Logged Interval 2600

Type Fluid In Hole Chemical

Salinity, PPM CL 3,500

Density 9.2

Level Full

Max. Rec. Temp. F 110

Operating Rig Time 3 1/2 Hours

Equipment -- Location 108 Hays

Recorded By J. Henrickson

Witnessed By Wyatt Urban

Jim Musgrove

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 861 8.625 23# 00 861

Two 7.875 861 TD 861

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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

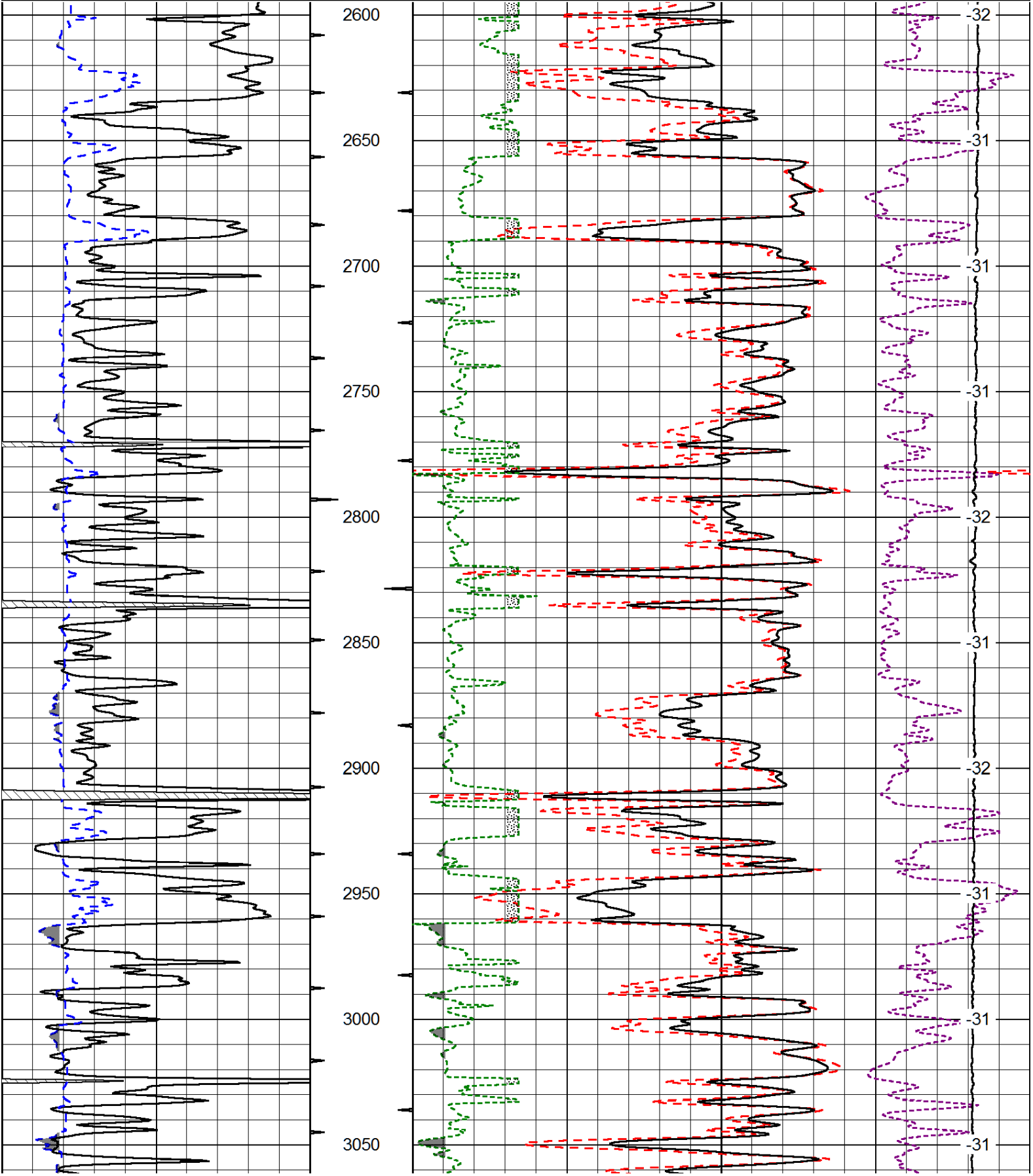
Thank you for using Log-Tech, Inc.
(785) 625-3858

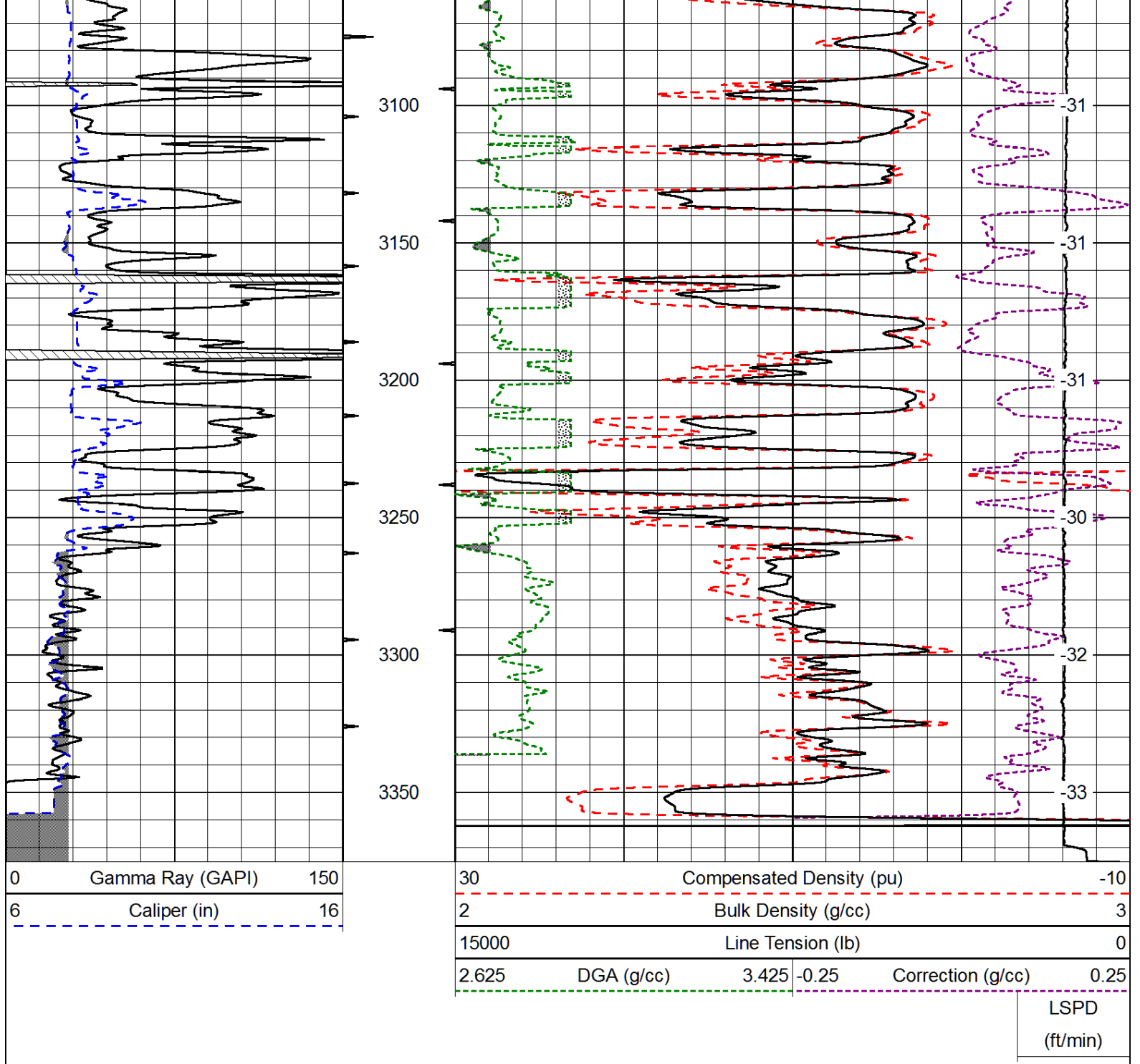
Russell Kansas
North to Mellard Rd, West to 180th, 2 1/2 North, West Into

Database File: americanwarrior_eulert_18_35hd.db
Dataset Pathname: DIL/awstk
Presentation Format: cdl
Dataset Creation: Tue Nov 05 10:58:40 2013
Charted by: Depth in Feet scaled 1:600

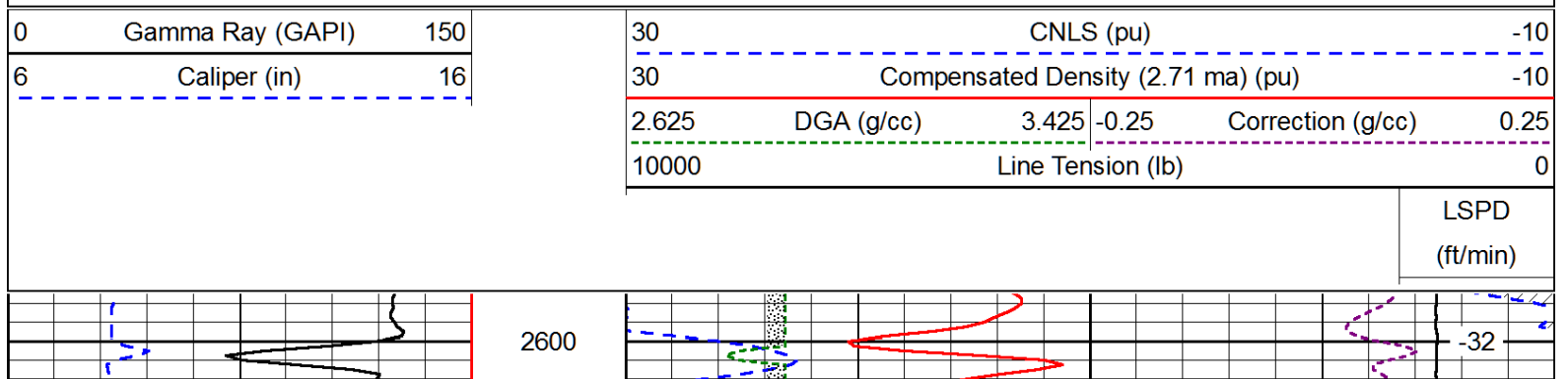
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

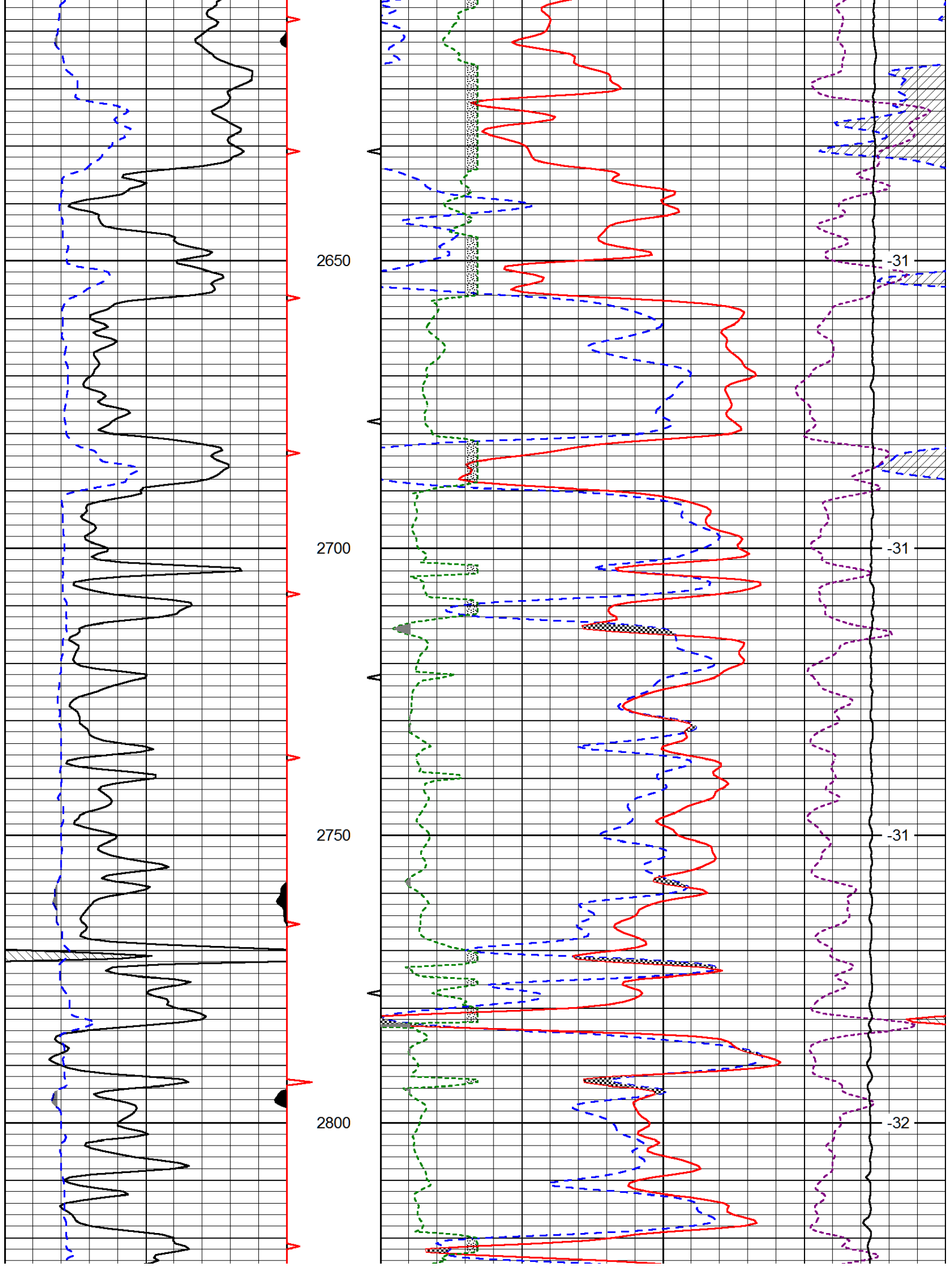
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25
	LSPD		(ft/min)

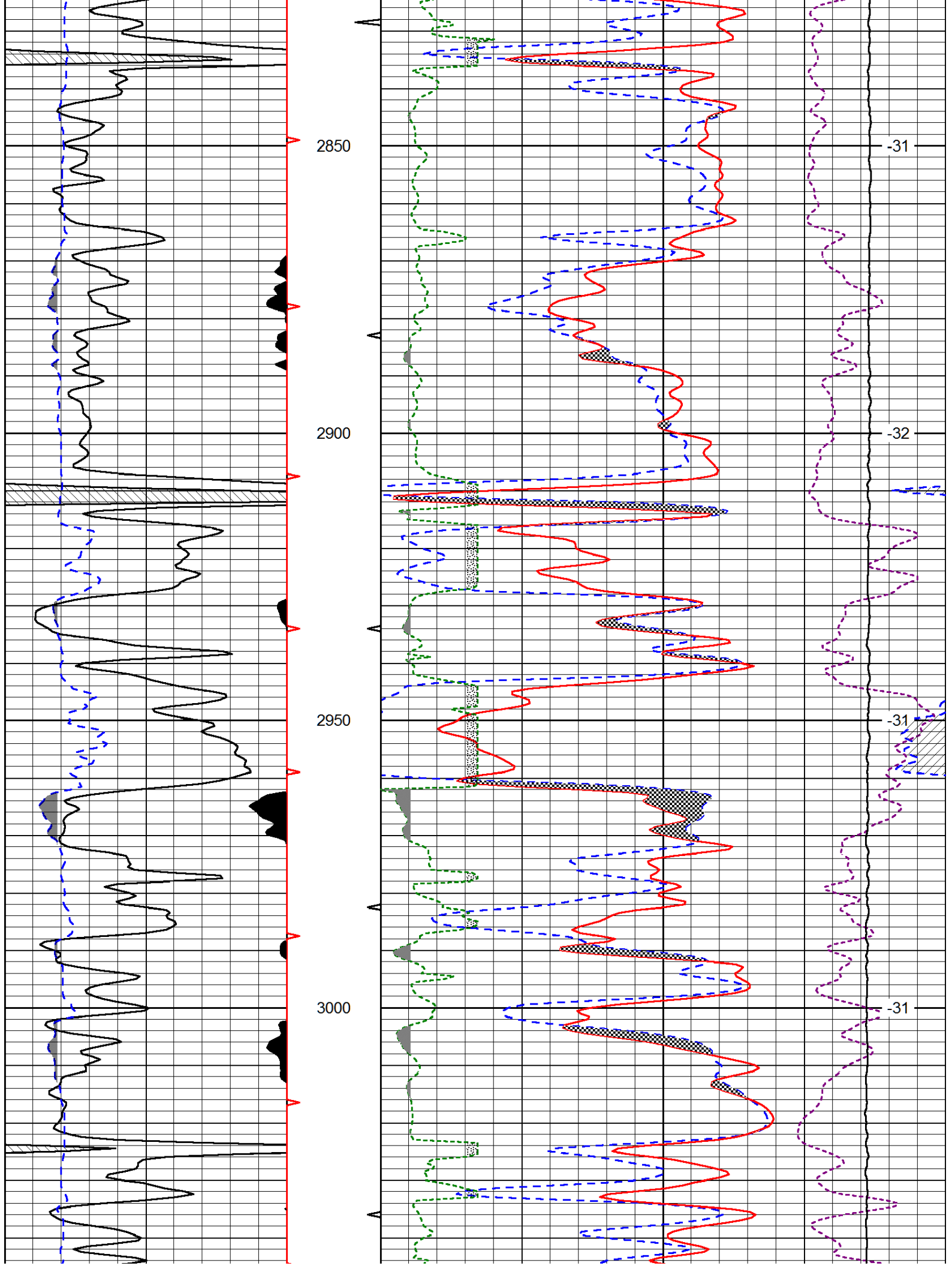


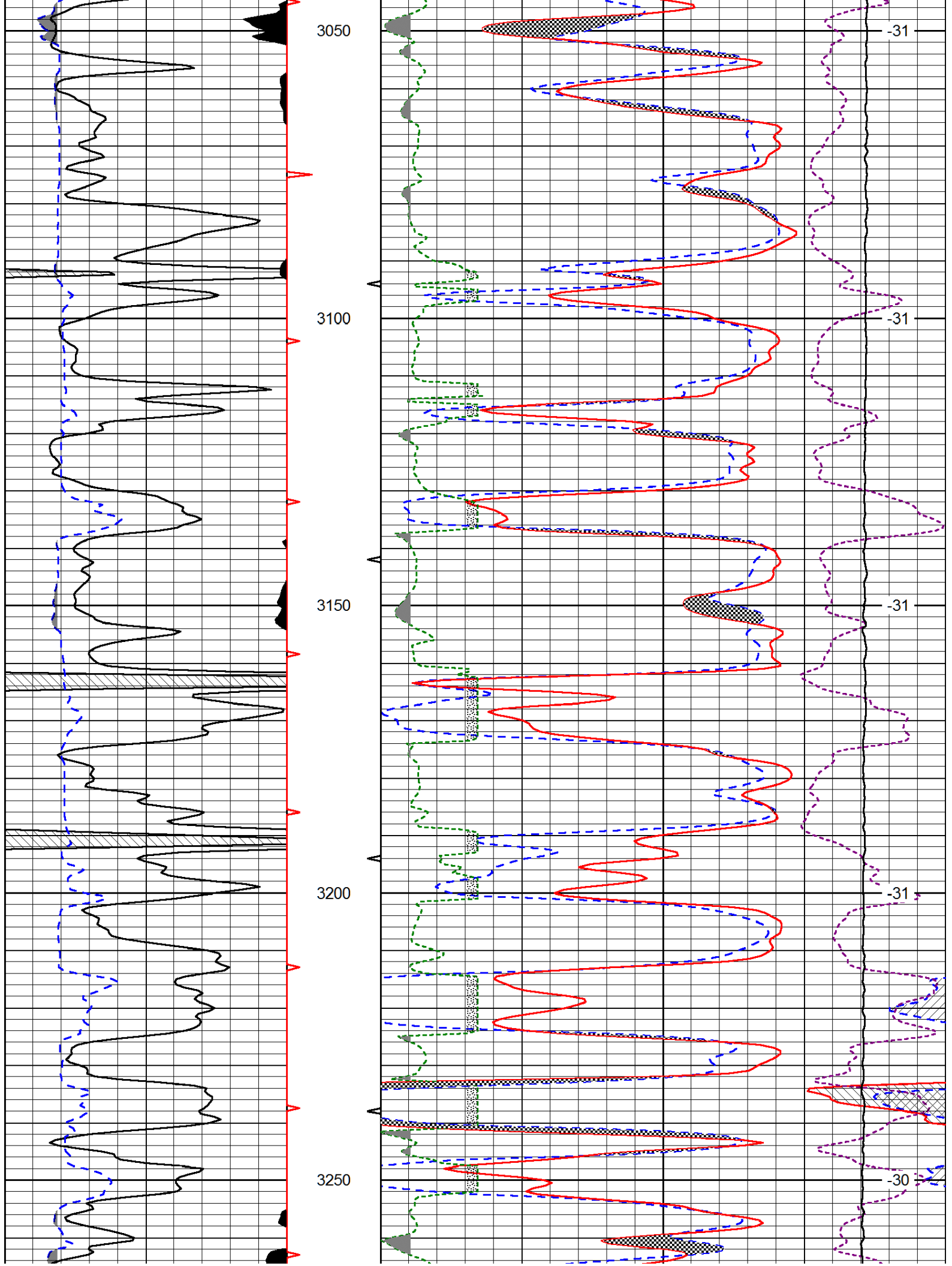


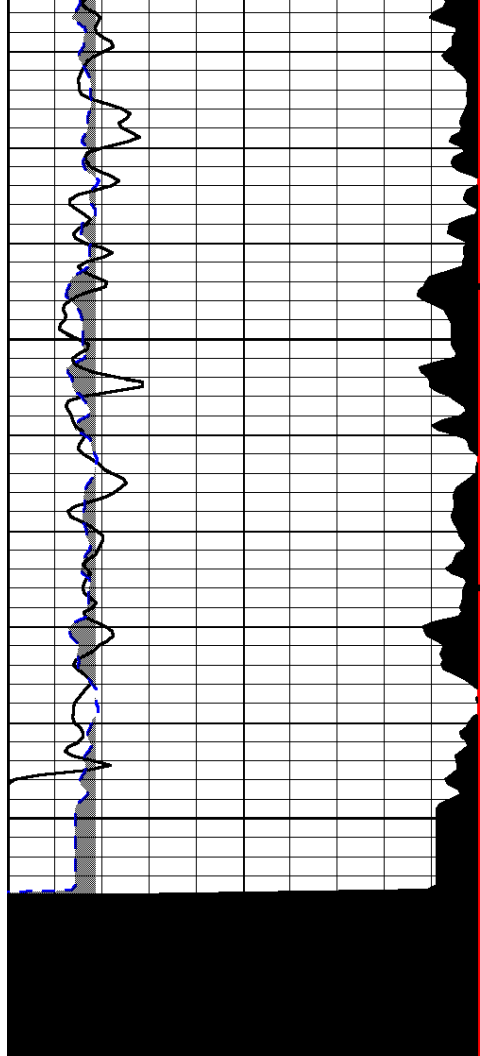
Database File: americanwarrior_eulert_18_35hd.db
 Dataset Pathname: DIL/awstk
 Presentation Format: cndlspec
 Dataset Creation: Tue Nov 05 10:58:40 2013
 Charted by: Depth in Feet scaled 1:240







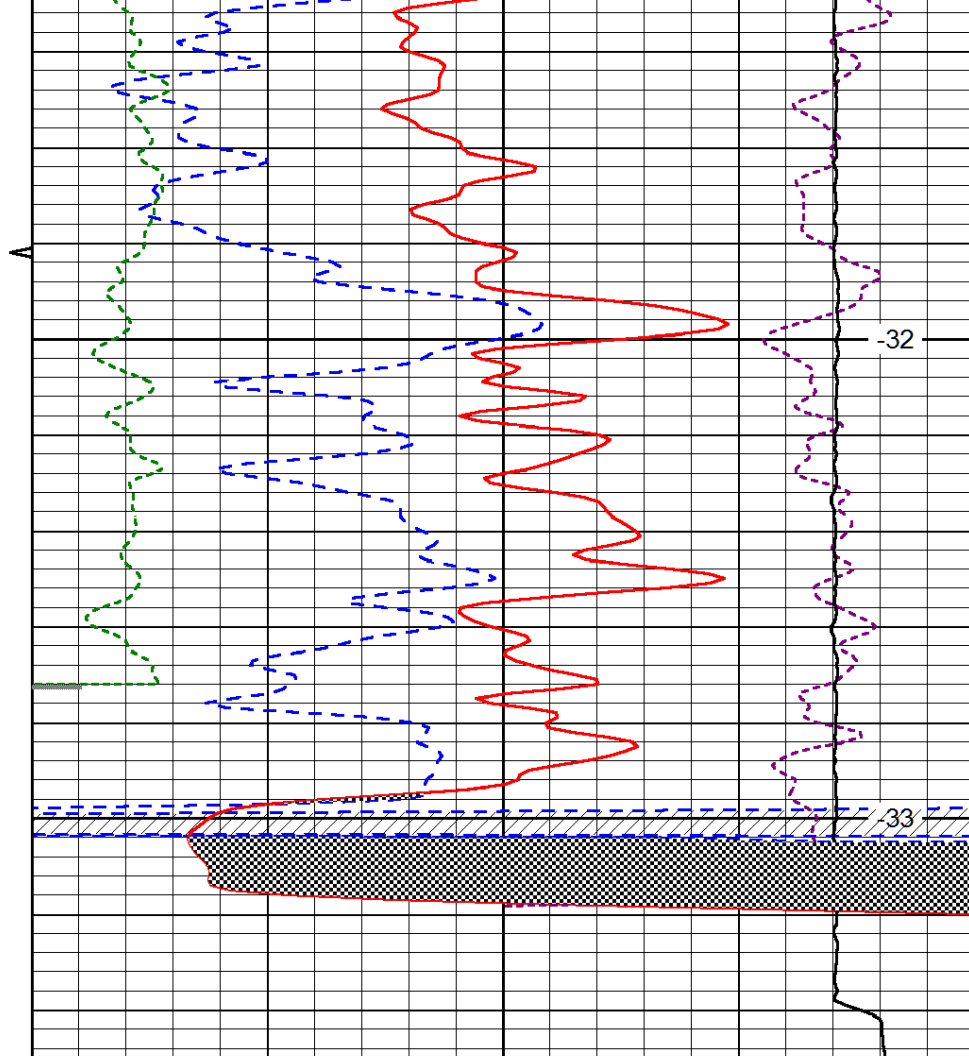




0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

3300

3350



30	CNLS (pu)		-10
30	Compensated Density (2.71 ma) (pu)		-10
2.625	DGA (g/cc)	3.425 -0.25	Correction (g/cc) 0.25
10000	Line Tension (lb)		0

LSPD
(ft/min)