



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-159-22806-00-00

Company **American Warrior, Inc.**

Well **Hoelscher # 3-10**

Field **Unknown**

County **Rice**

State **Kansas**

Location **1991' FSL & 2284' FEL**

Sec: **10** Twp: **18 S** Rge: **10 W**

Permanent Datum **Ground Level** Elevation **1785**

Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services
DIL/MEL

Elevation
K.B. 1793
D.F. 1785
G.L. 1785

Date **10-21-2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **3400**

Depth Logger **3397**

Bottom Logged Interval **3376**

Top Logged Interval **2700**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **3,700**

Density **9.4**

Level **Full**

Max. Rec. Temp. F **110**

Operating Rig Time **4 Hours**

Equipment -- Location **15 Hays**

Recorded By **Y. Ruiz**

Witnessed By **Clint Musgrove**

Borehole Record

Run No Bit From To Size Wgt. To

One 12.25 00 413 TD 8.625 23# 00 413

Two 7.875 413

<<< Fold Here >>>

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

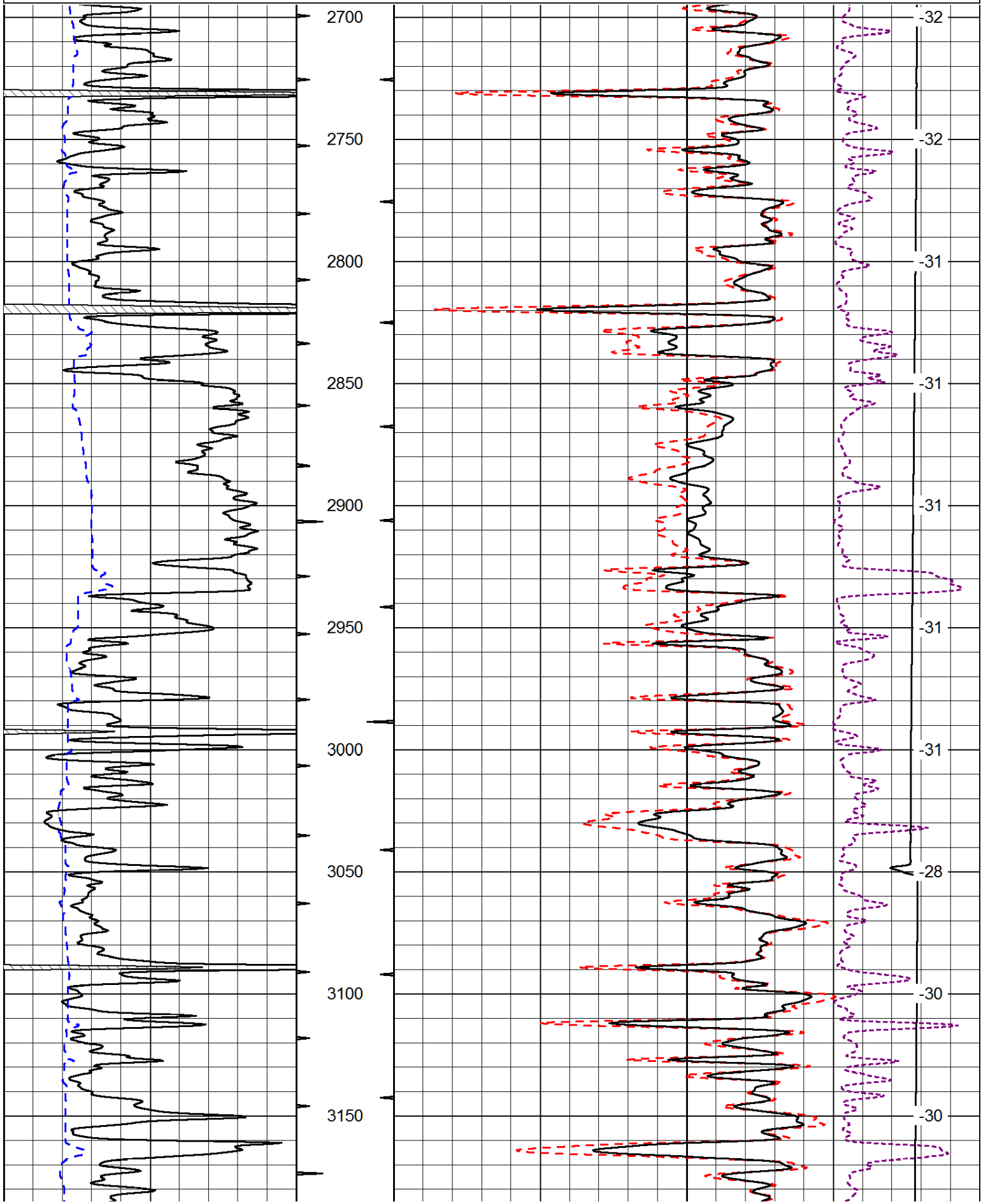
Thank you for using Log-Tech, Inc.
(785) 625-3858

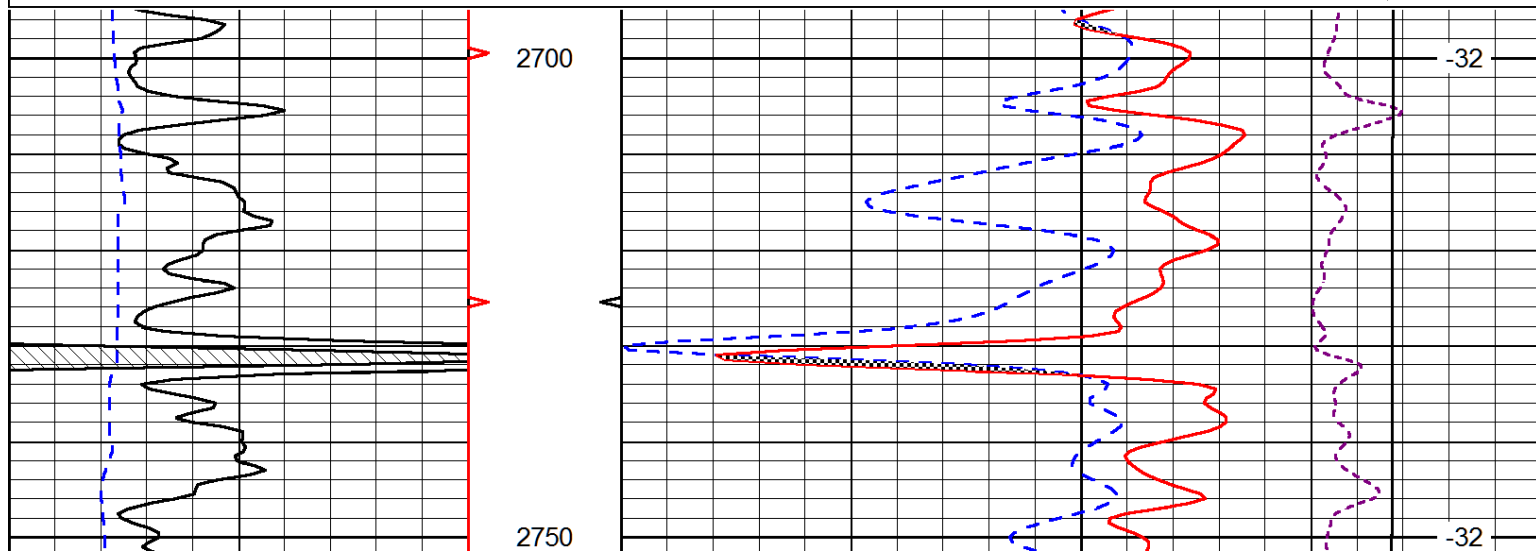
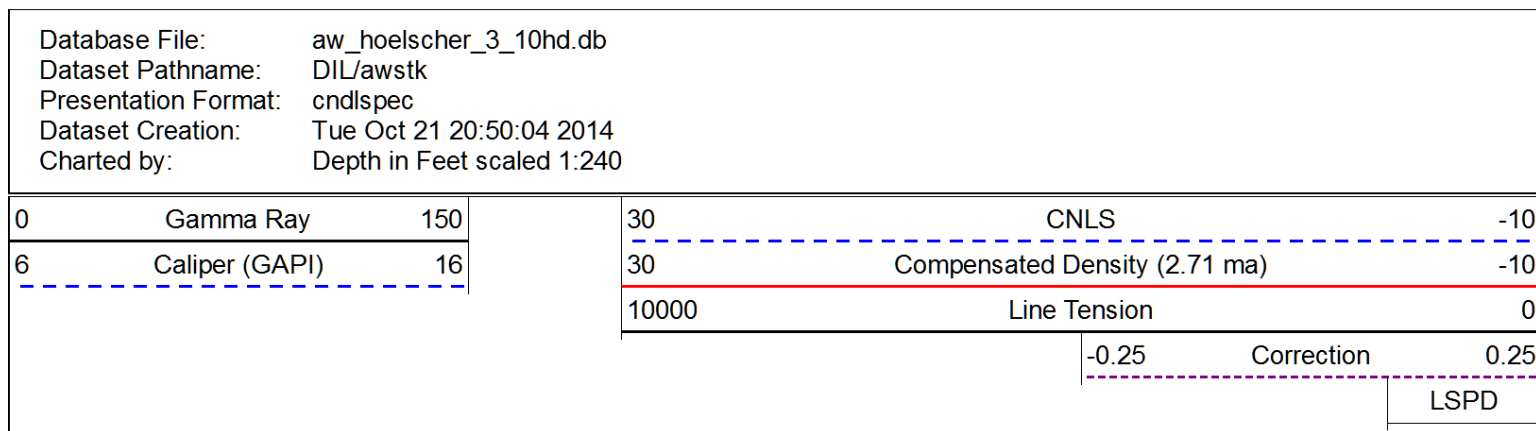
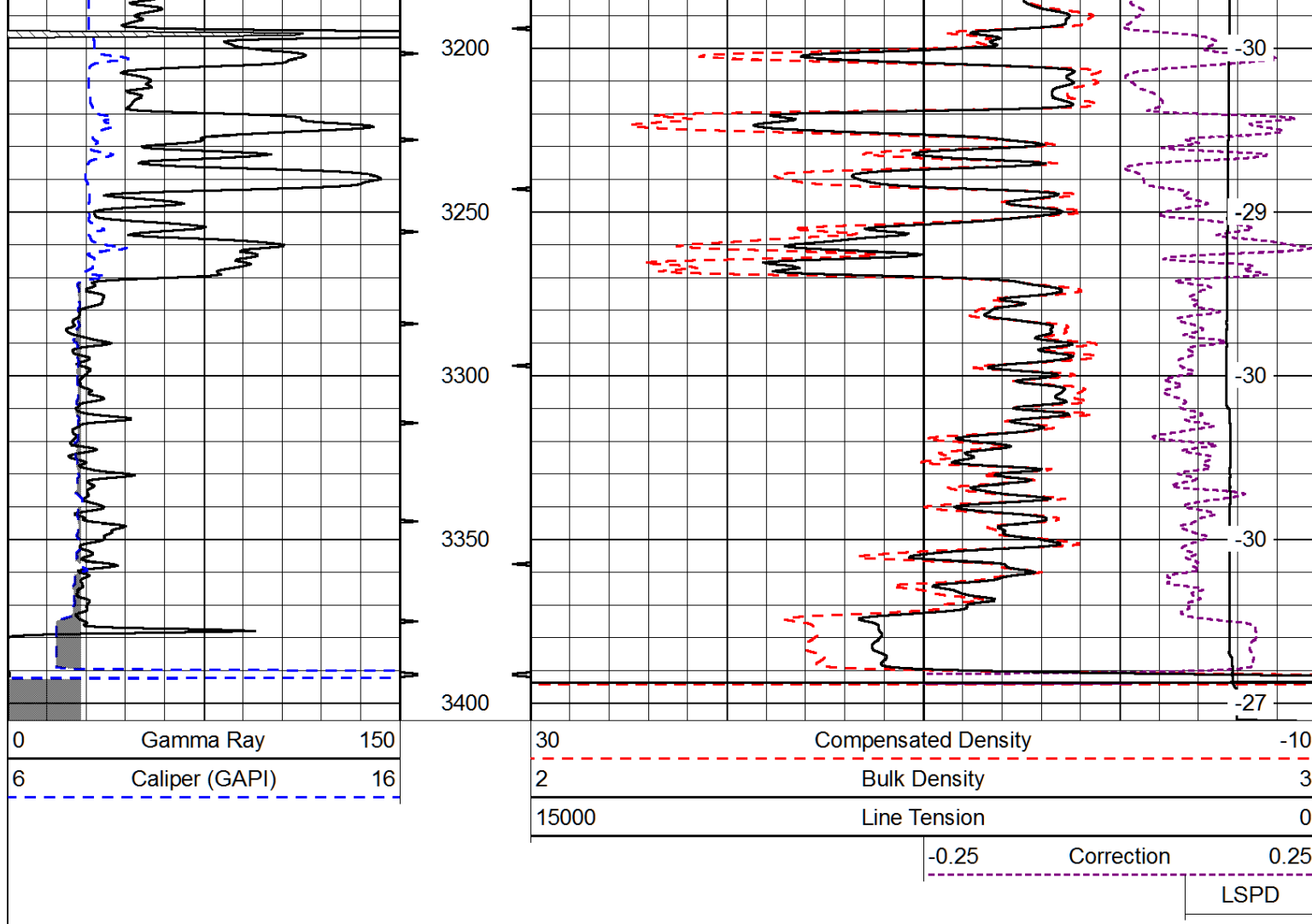
Bushton,
West to 4th Rd, 1 1/2 South,
East into

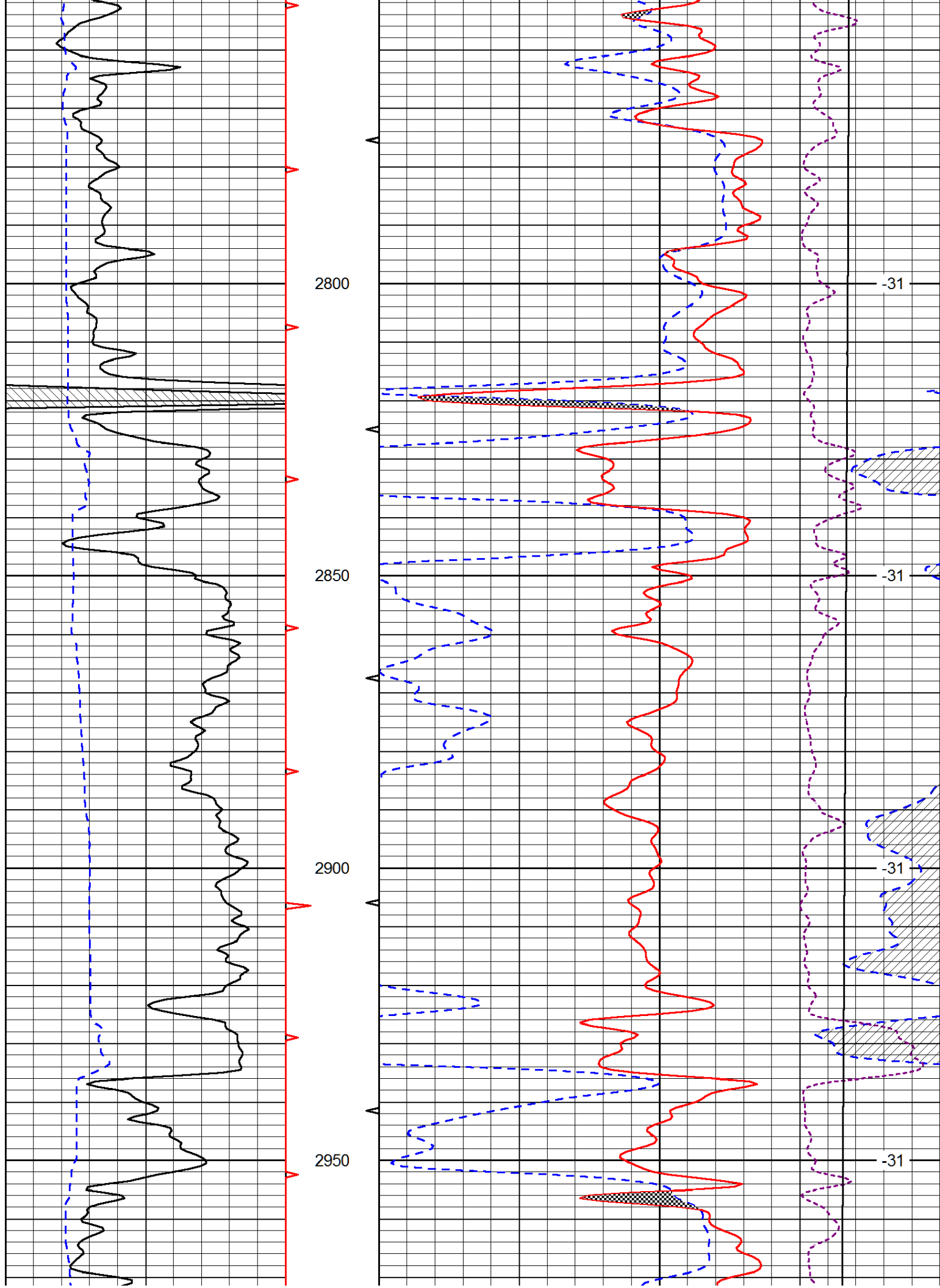
Database File: aw_hoelscher_3_10hd.db
Dataset Pathname: DIL/awstk
Presentation Format: cdl
Dataset Creation: Tue Oct 21 20:50:04 2014
Charted by: Depth in Feet scaled 1:600

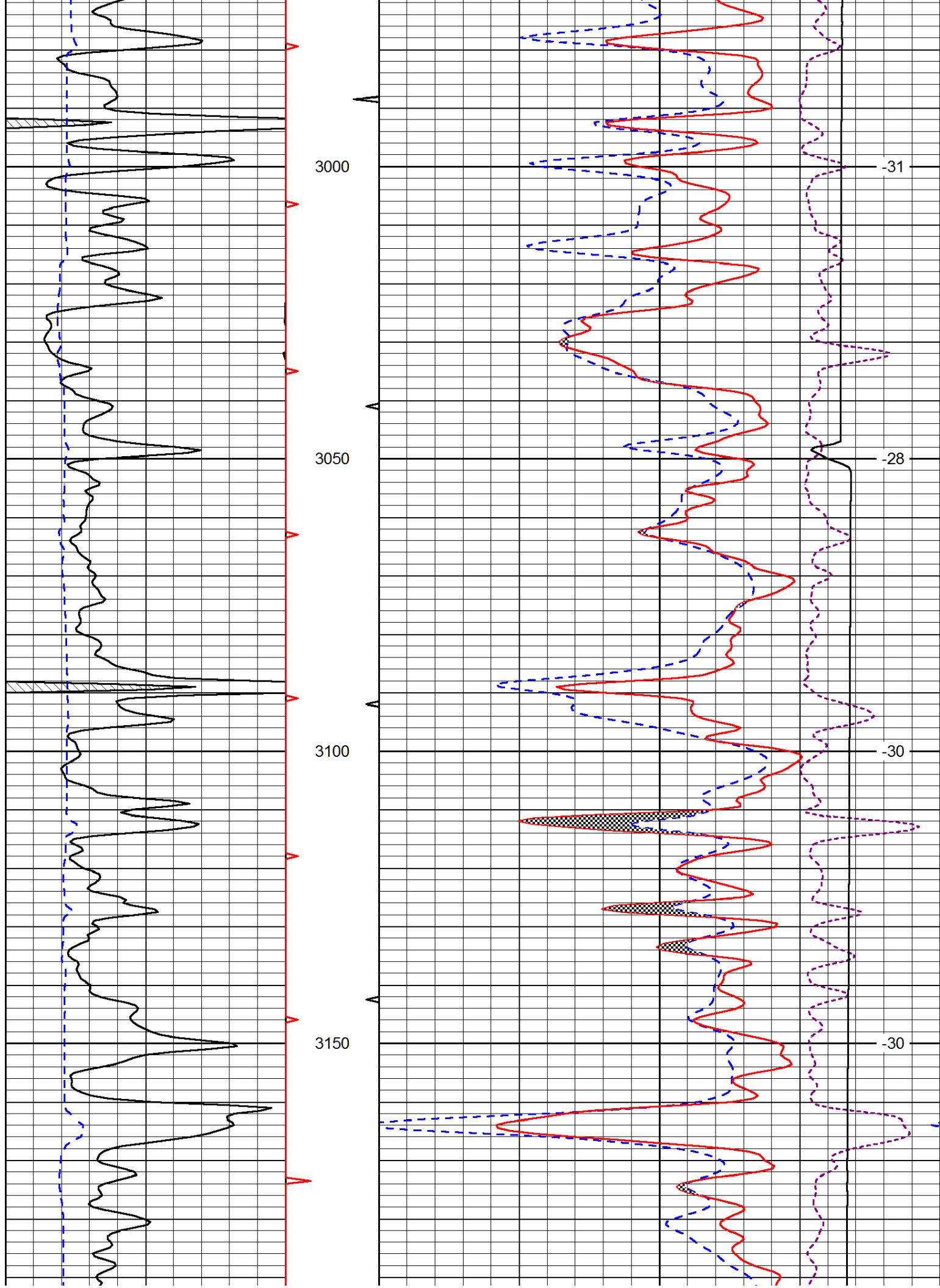
0	Gamma Ray	150
6	Caliper (GAPI)	16

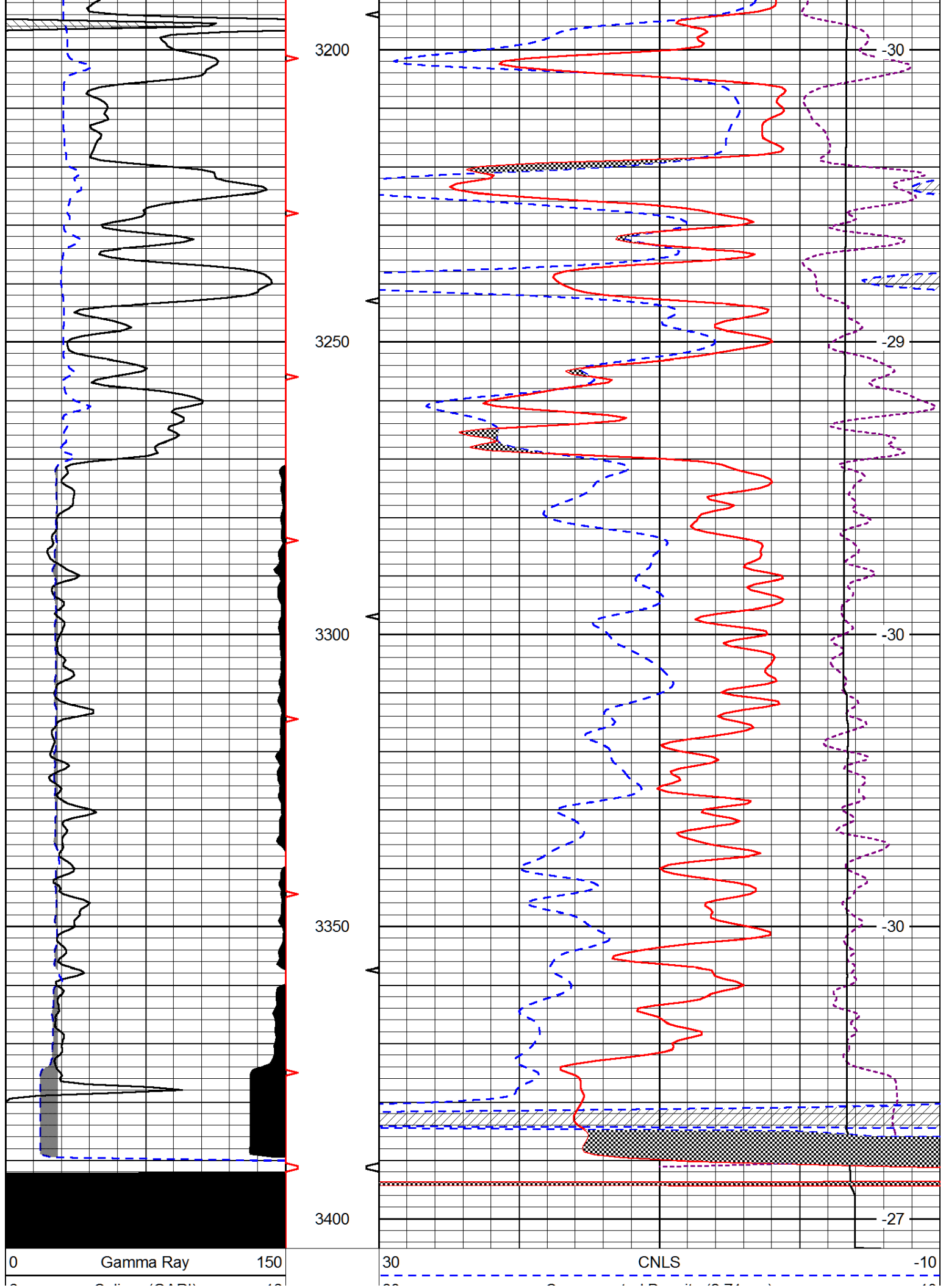
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
	-0.25	Correction	0.25
			LSPD











6 Caliper (GAPI) 16

30	Compensated Density (2.71 ma)		-10
10000	Line Tension		0
	-0.25	Correction	0.25
	LSPD		