



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-053-21,295-00-00

Company American Warrior, Inc.

Well Grubb No. 1-5

Field Stollenberg

County Ellsworth

State Kansas

Location

NW-SE-SW-SE
335' FSL & 1652' FEL

Sec: 5

Twp: 16S

Rge: 10W

Other Services
DIL
MEI/BHCS

Permanent Datum Ground Level Elevation 1820
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

Run Number

Type Log

Depth Driller

Depth Logger

Bottom Logged Interval

Top Logged Interval

Type Fluid In Hole

Salinity, PPM CL

Density

Level

Max. Rec. Temp. F

Operating Rig Time

Equipment -- Location

Recorded By

Witnessed By

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

<<< 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

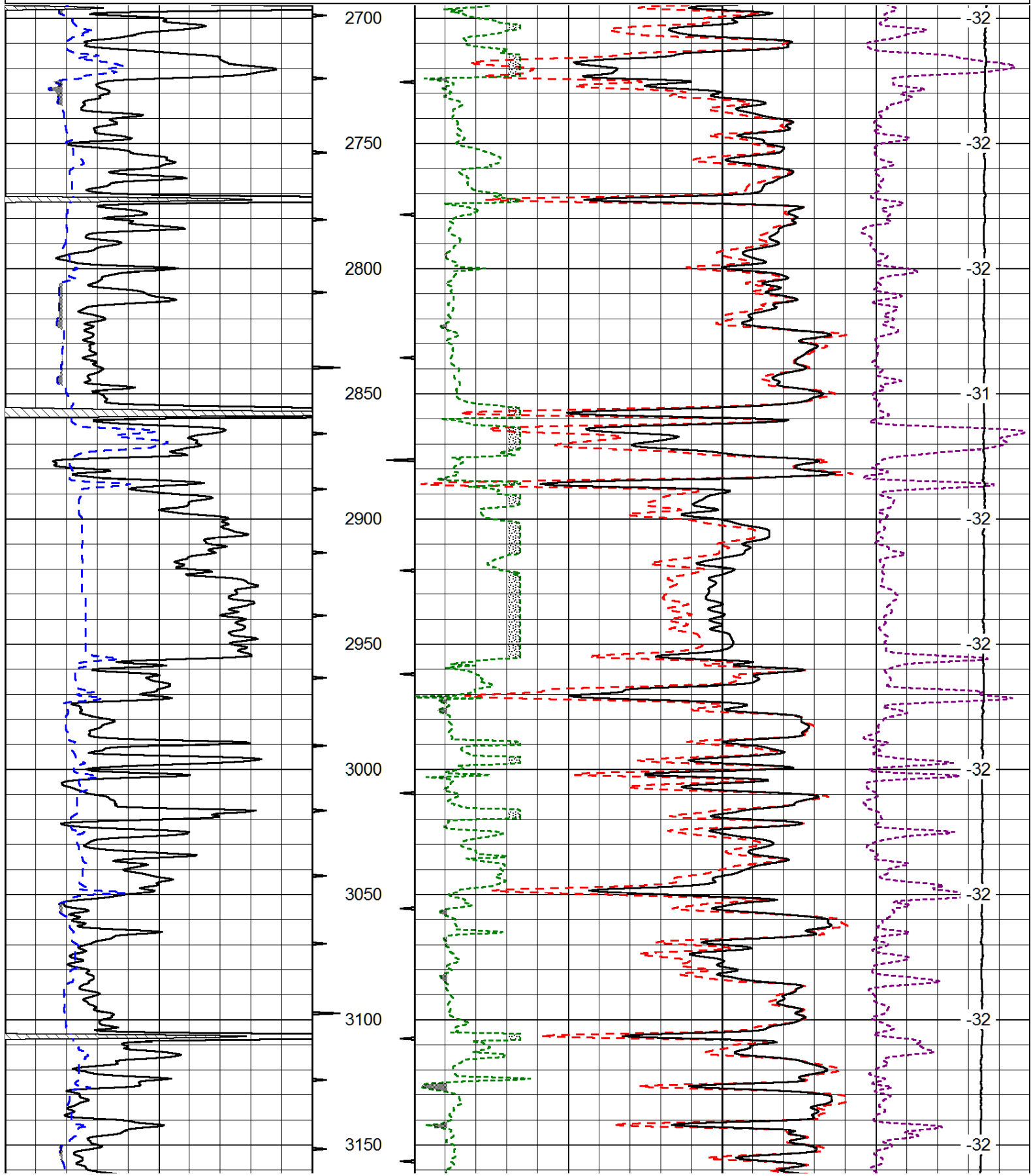
Thank you for using Log-Tech, Inc.
(785) 625-3858

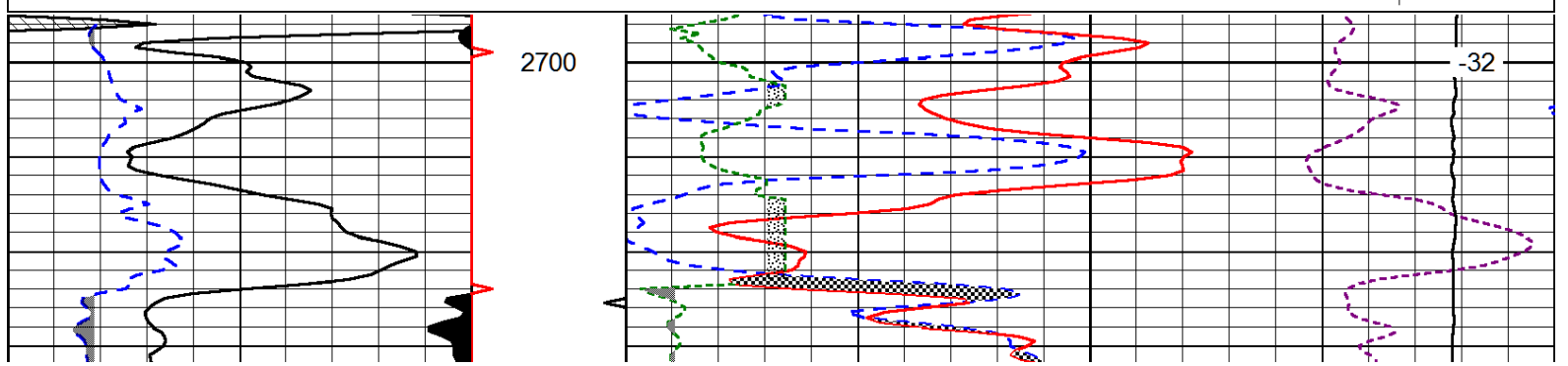
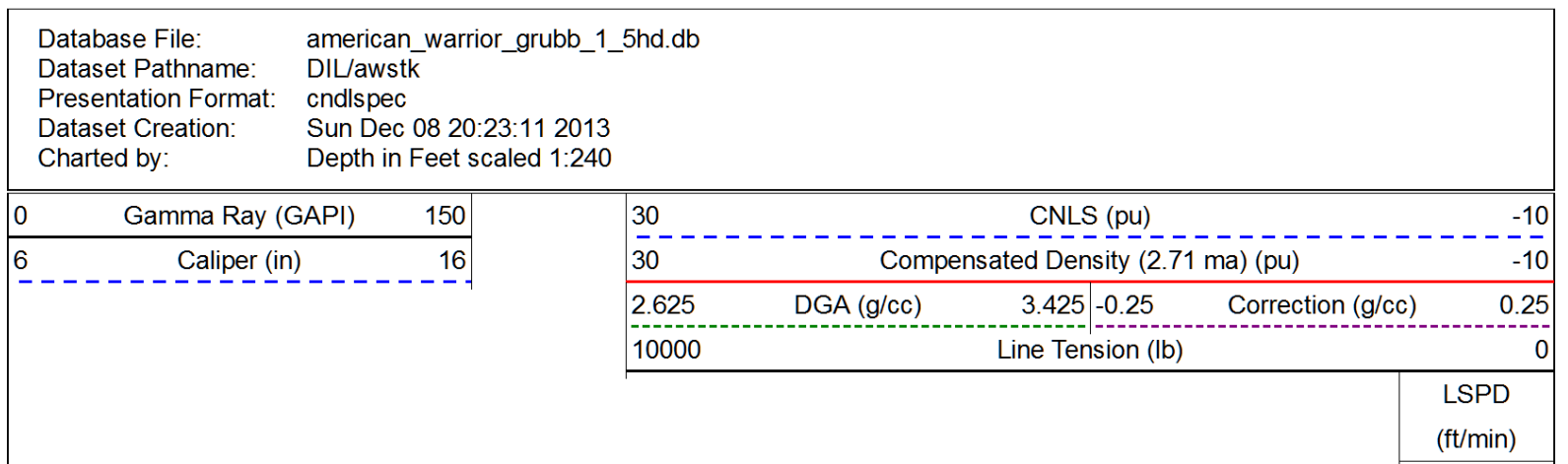
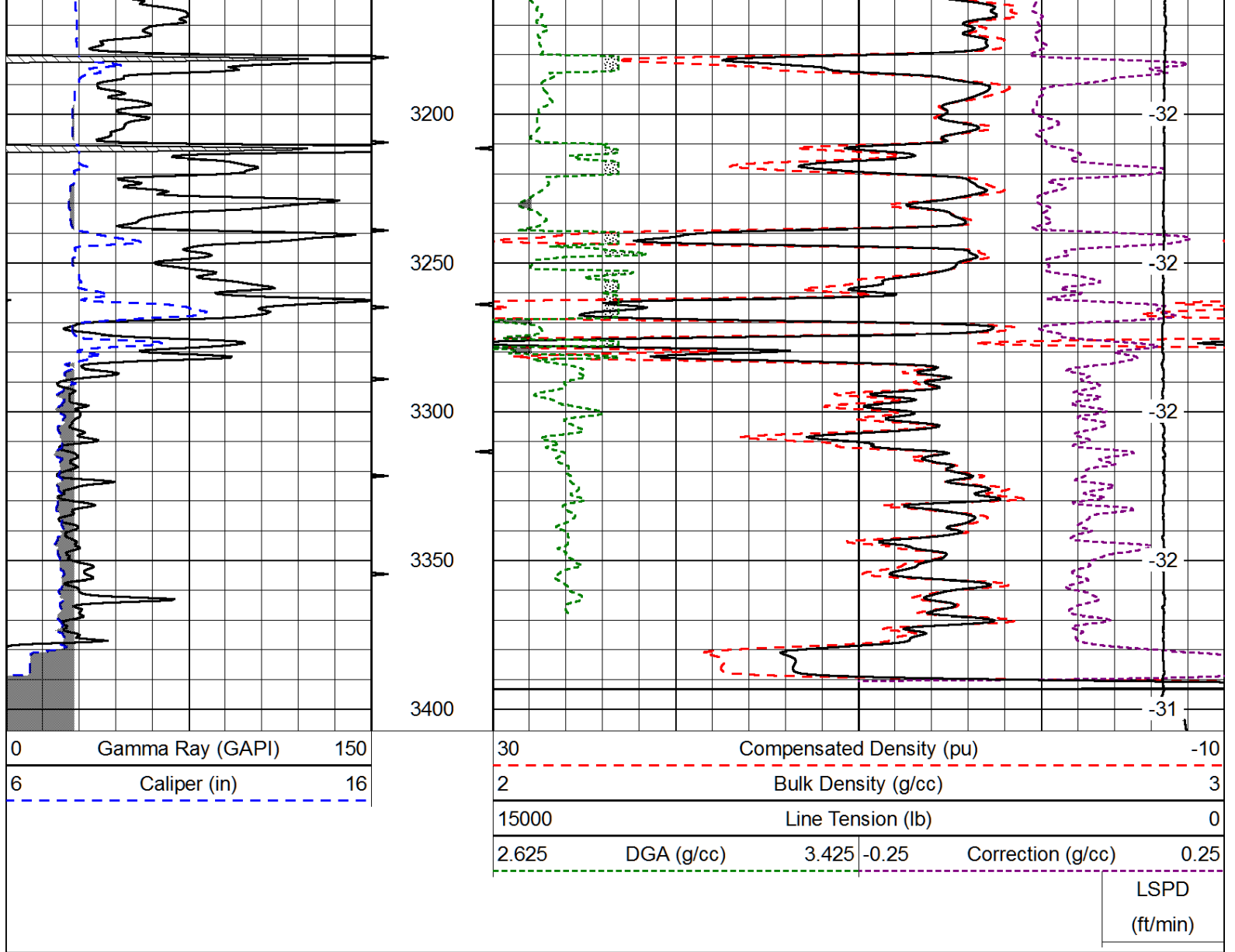
Wilson Kansas
10 South to Ave. N, 1 3/4 East, North Into

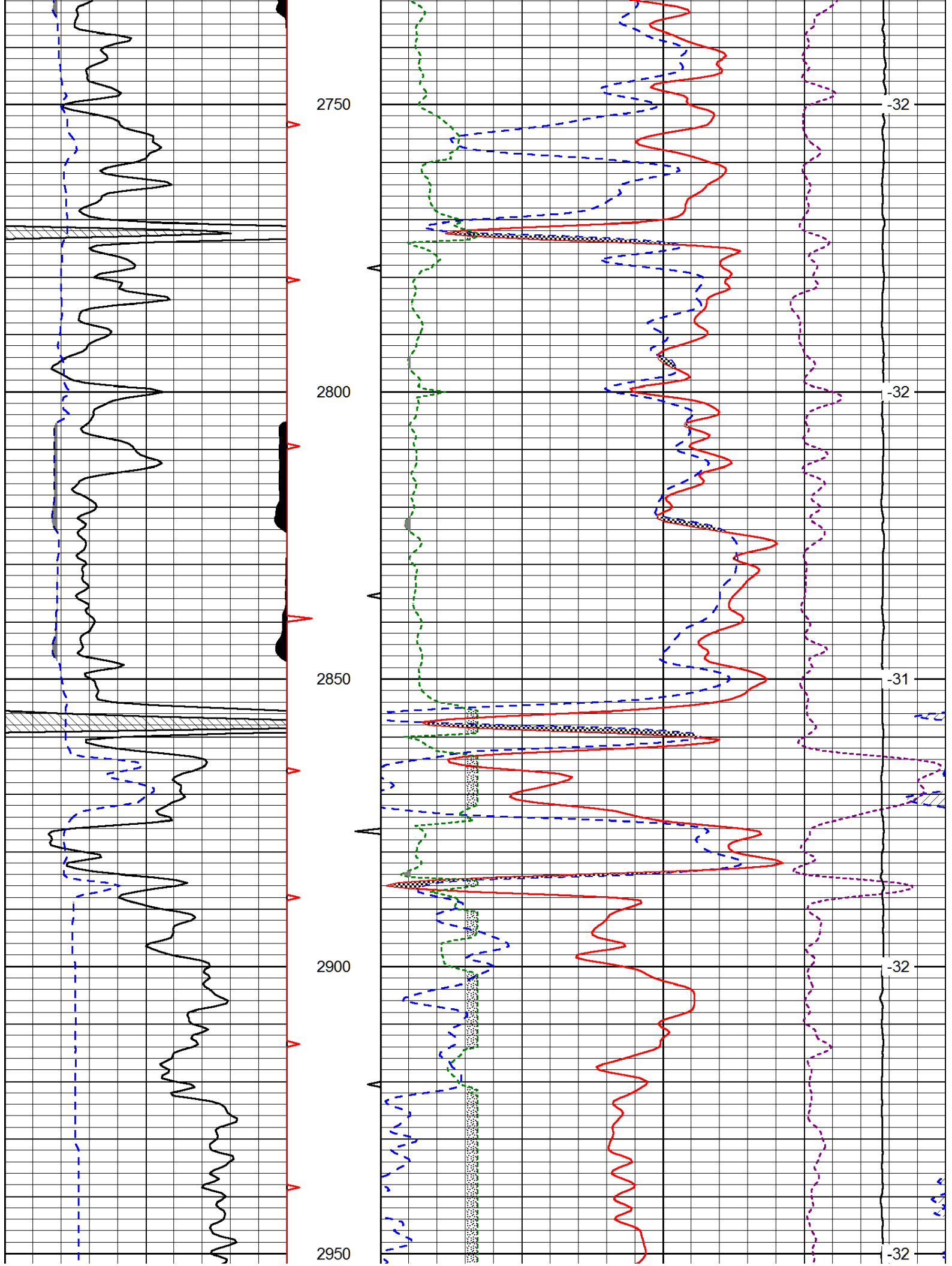
Database File: american_warrior_grubb_1_5hd.db
Dataset Pathname: DIL/awstk
Presentation Format: cdl
Dataset Creation: Sun Dec 08 20:23:11 2013
Charted by: Depth in Feet scaled 1:600

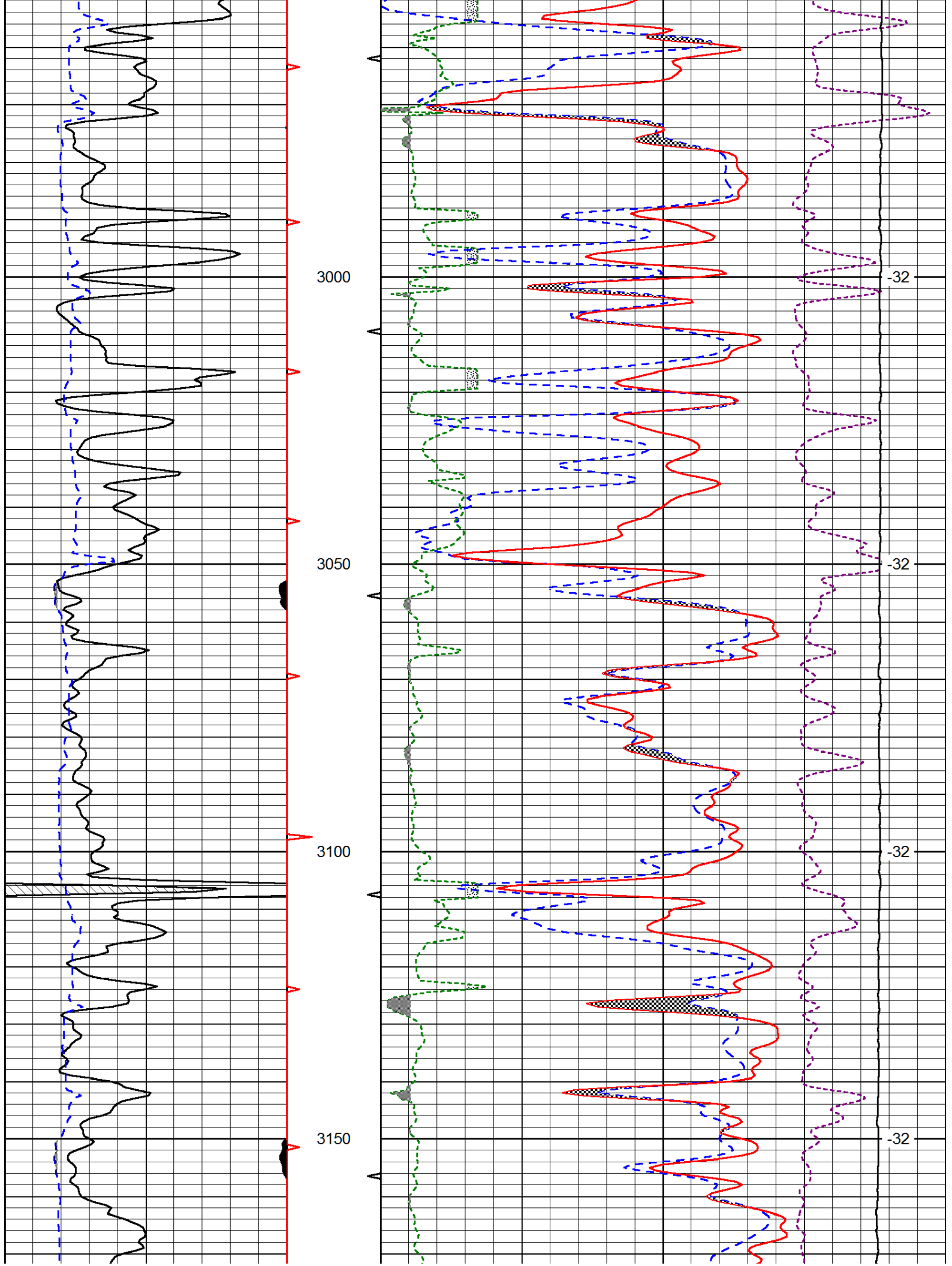
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

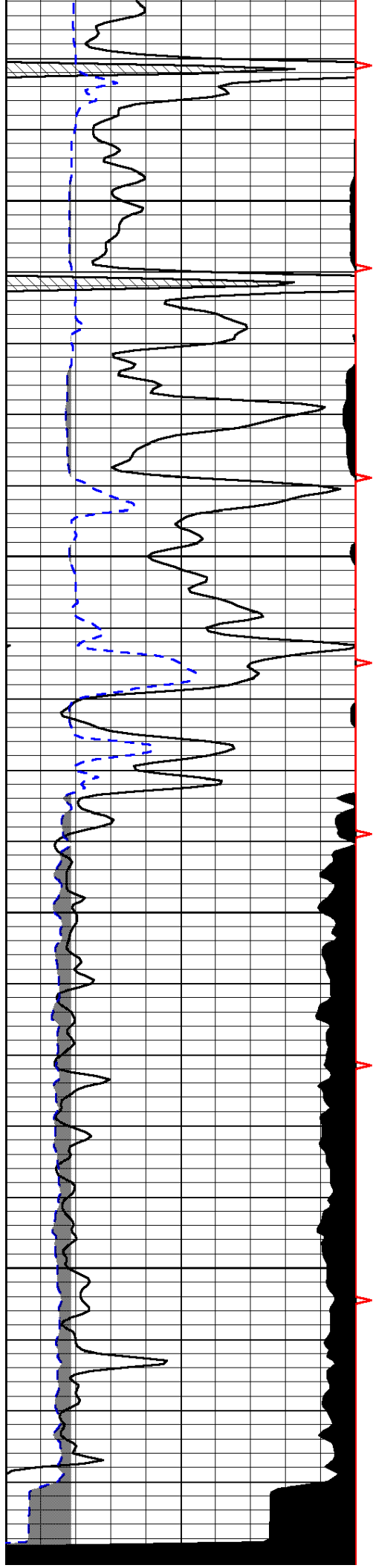
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25
	LSPD		(ft/min)









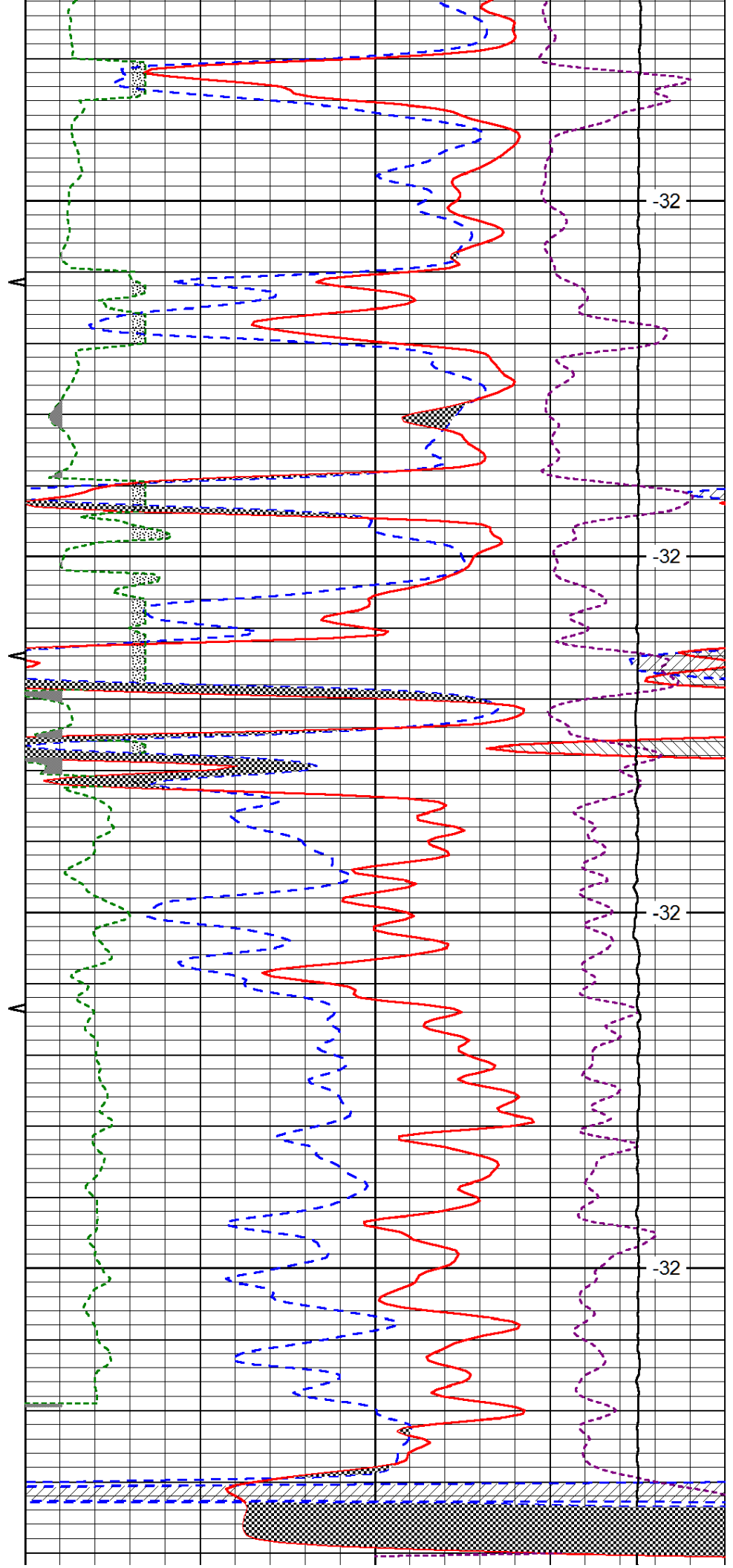


3200

3250

3300

3350

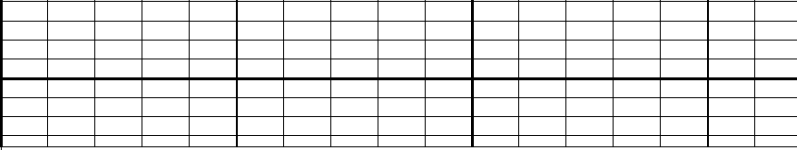


-32

-32

-32

-32

			3400											-31
0	Gamma Ray (GAPI)	150	30	CNLS (pu)										-10
6	Caliper (in)	16	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)		