



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-167-23,906-00-00

Company **H&D Exploration, LLC**
Well **Staudinger No. 1**
Field **Driscoll West**
County **Russell** State **Kansas**

Location **W/2-SE-SE-SW
330' FSL & 2179' FWL**

Sec: **25** Twp: **15S** Rge: **12W**

Other Services
DIL
MEI/BHCS

Permanent Datum **Ground Level** Elevation **1854**
Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. 1863
D.F. 1854
G.L. 1854

Date

9/29/13

Run Number

One

Type Log

CNL / CDL

Depth Driller

3375

Depth Logger

3376

Bottom Logged Interval

3355

Top Logged Interval

2700

Type Fluid In Hole

Chemical

Salinity, PPM CL

3,700

Density

9.2

Level

Full

Max. Rec. Temp. F

110

Operating Rig Time

5 Hours

Equipment -- Location

17 Hays

Recorded By

J. Henrickson

Witnessed By

Jim Musgrove

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

760

8.625

23#

00

760

Two

7.875

760

TD

<<< 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

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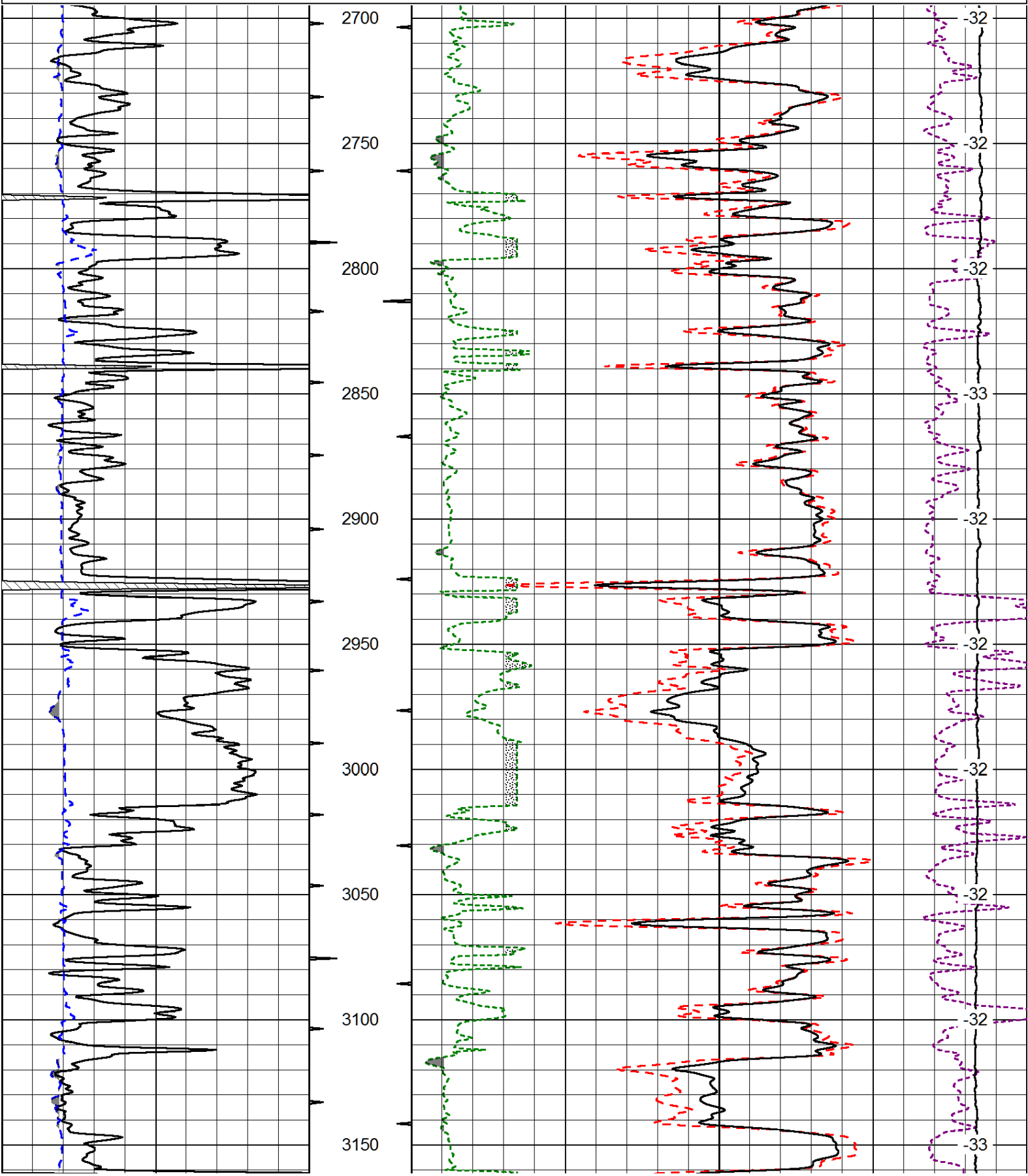
Odin Kansas
North to Church(Several Miles), 1/2 West, 1 North, 1/2 East, North Into

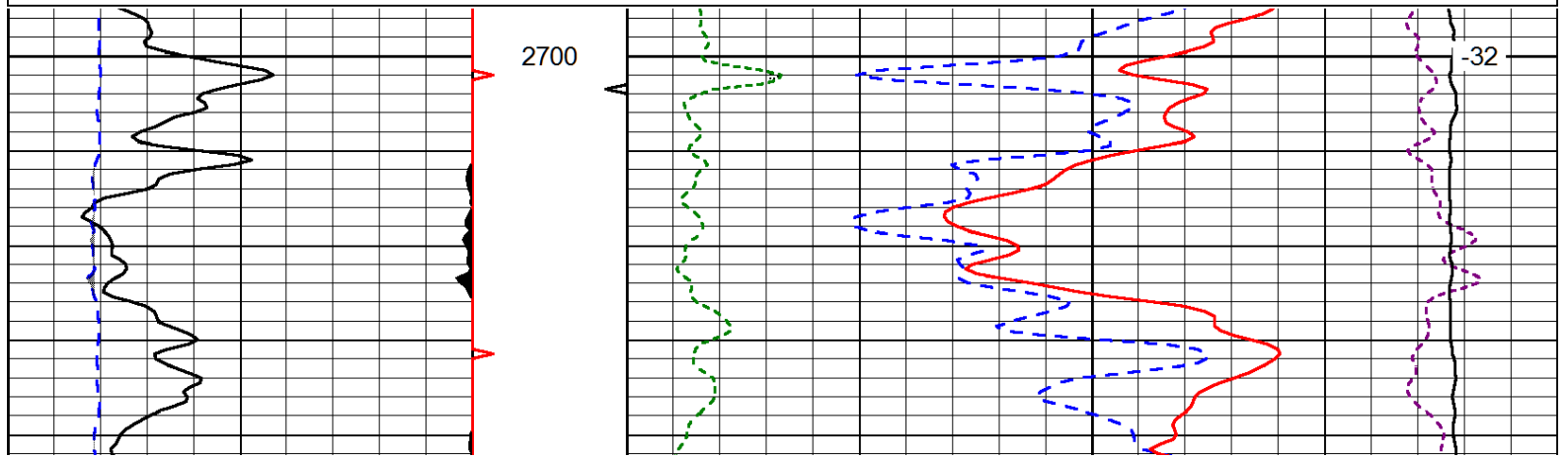
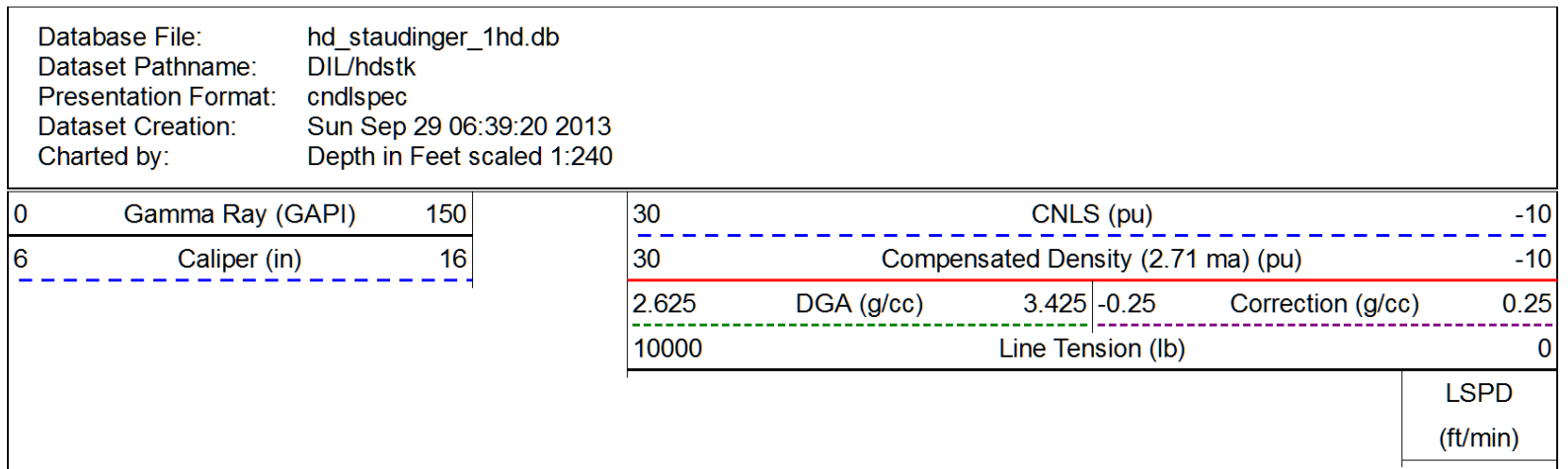
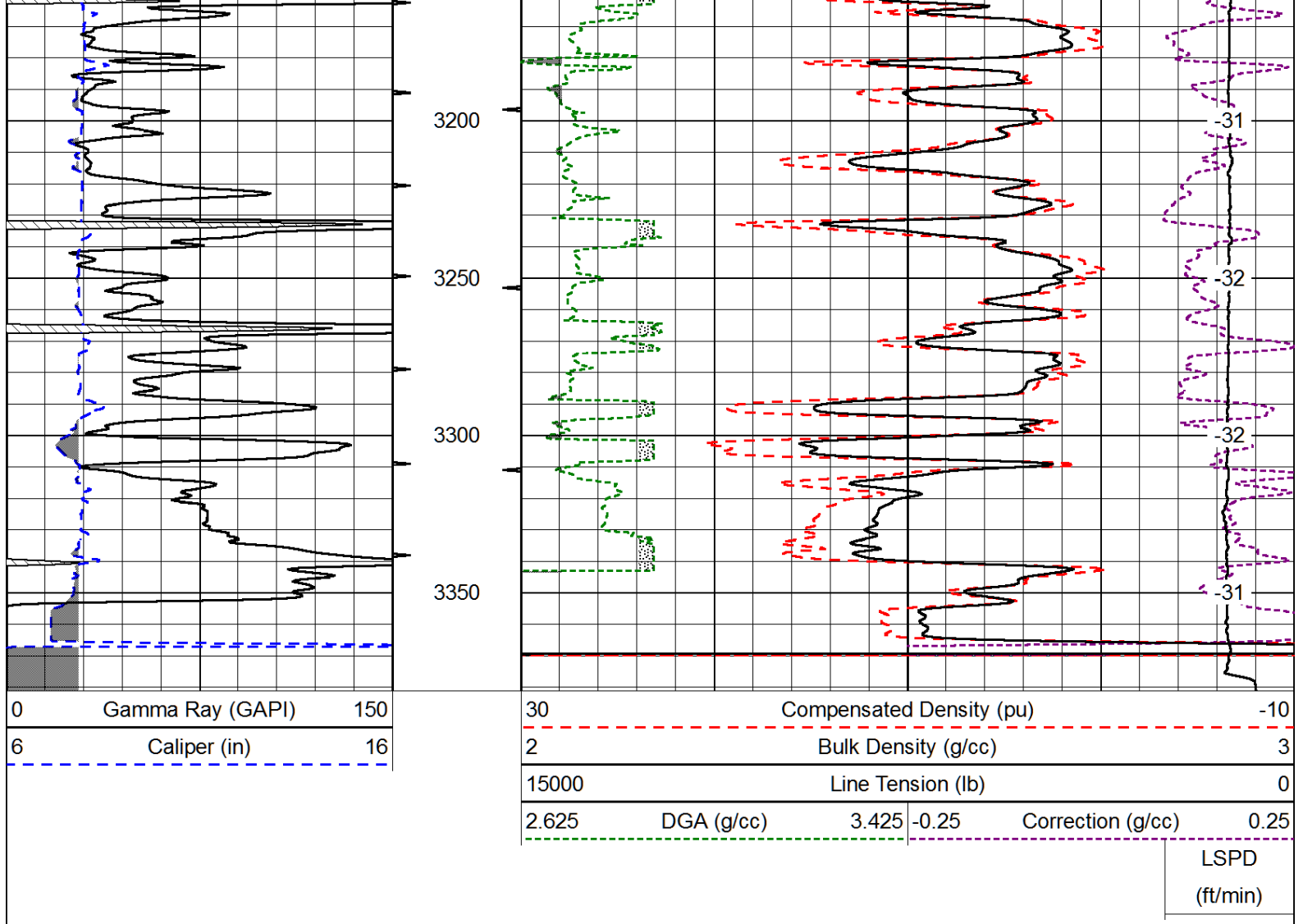
Database File: hd_staudinger_1hd.db
Dataset Pathname: DIL/hdstk
Presentation Format: cdl
Dataset Creation: Sun Sep 29 06:39:20 2013
Charted by: Depth in Feet scaled 1:600

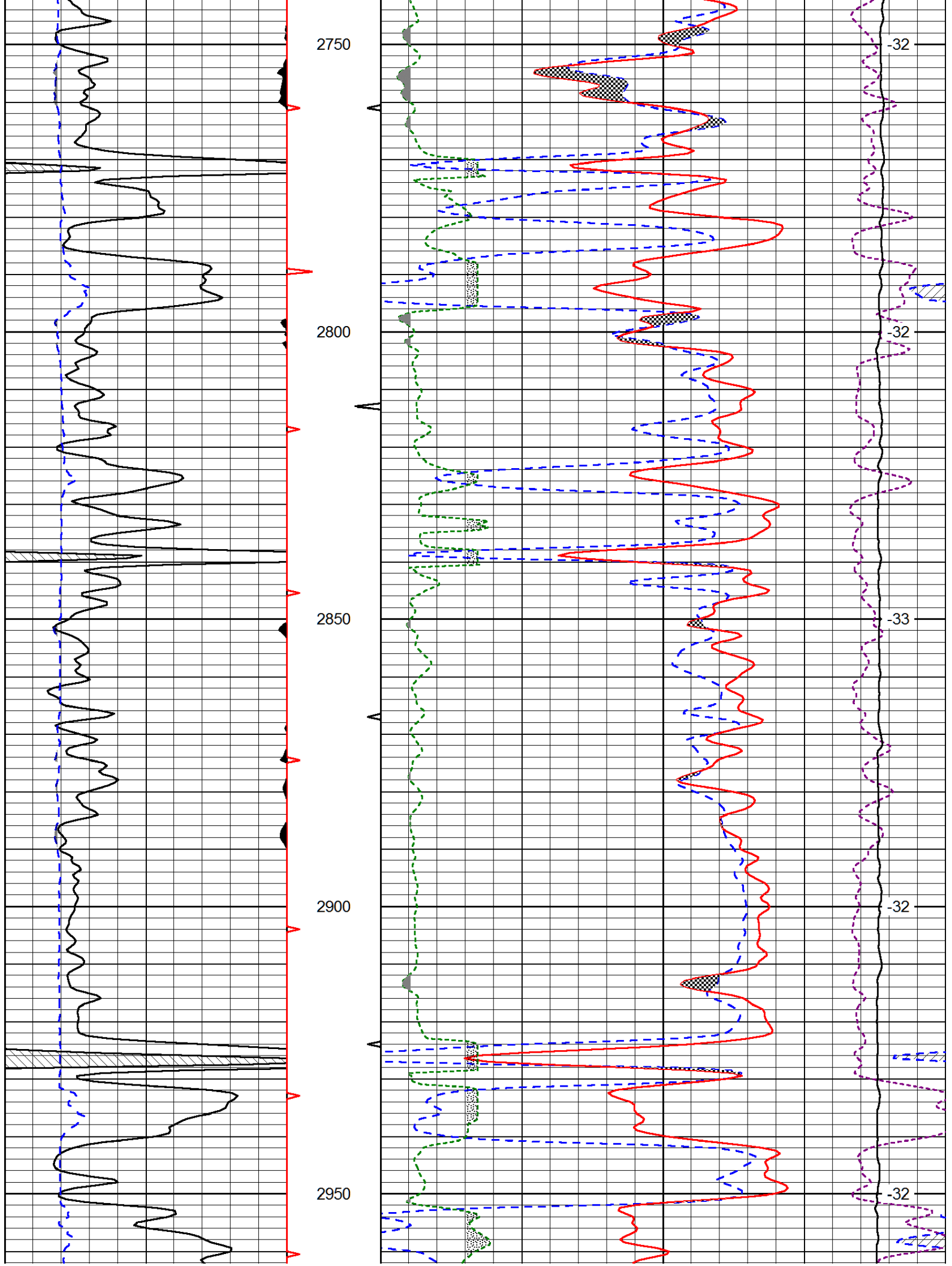
Charted by: Depth in Feet scaled 1:600

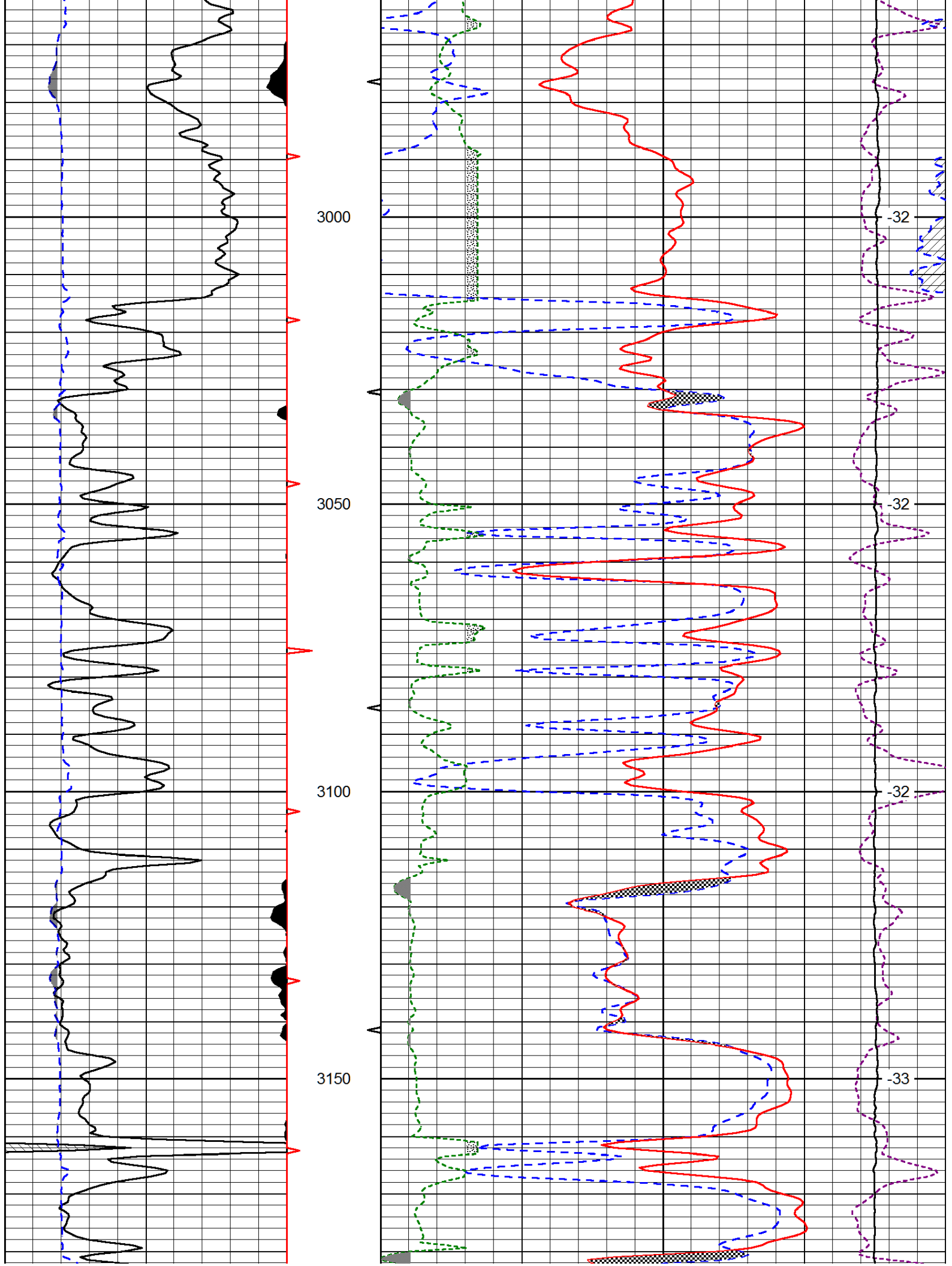
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

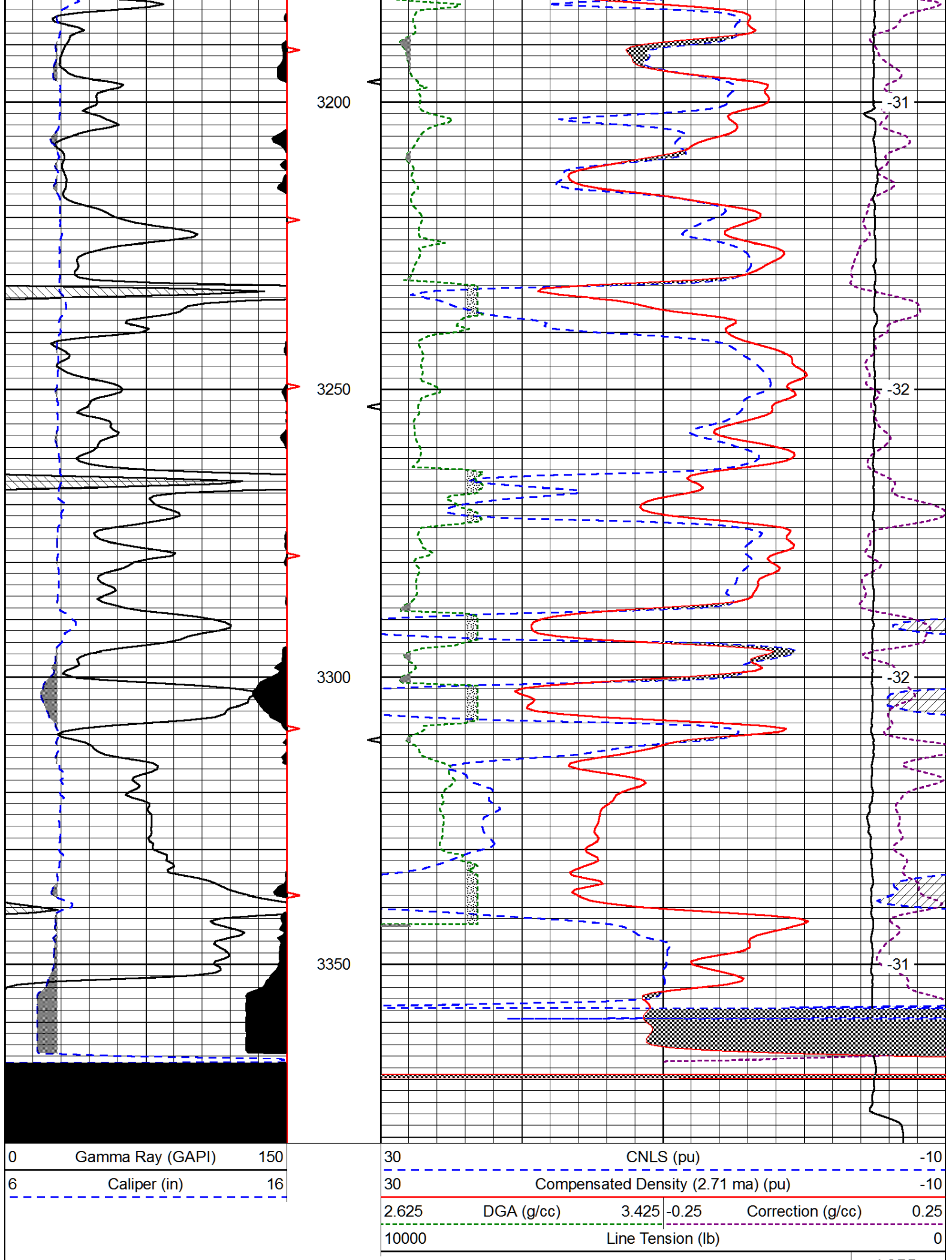
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25
			LSPD
			(ft/min)











LSPD (ft/min)
