



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-167-23833-00-00

Company **Craig Oil Company**

Well **Krug #10**

Field **Trapp**

County **Russell**

State **Kansas**

Location

1610' FNL & 615' FWL

Other Services
DIL/MEL

Sec: 7

Twp: 15S

Rge: 13W

Elevation

Permanent Datum Ground Level Elevation 1864

Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum

K.B. 1871
D.F. 1864
G.L. 1864

Date

11/7/2012

Run Number

One

CNL / CDL

Type Log

CNL / CDL

Depth Driller

3365

Depth Logger

3364

Bottom Logged Interval

3343

Top Logged Interval

1900

Type Fluid In Hole

Chemical

Salinity, PPM CL

3000

Density

8.9

Level

Full

Max. Rec. Temp. F

112

Operating Rig Time

4 Hours

Equipment -- Location

91 Hays

Recorded By

D. Schmidt

Witnessed By

Jeff Lawler

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

23#

From

To

One

12.25

00

418

8.625

23#

00

418

Two

7.875

418

TD

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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

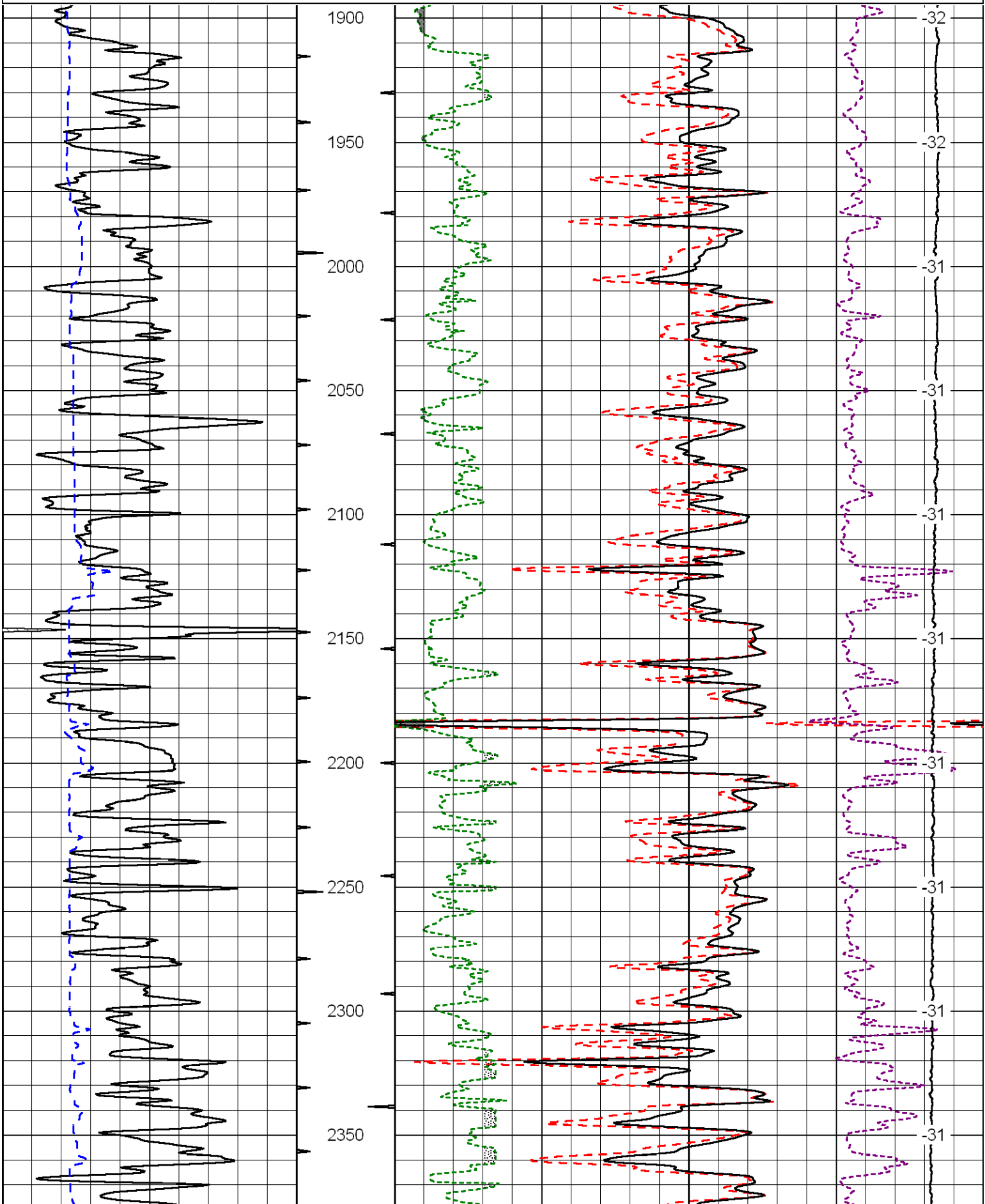
Thank you for using Log-Tech, Inc.
(785) 625-3858

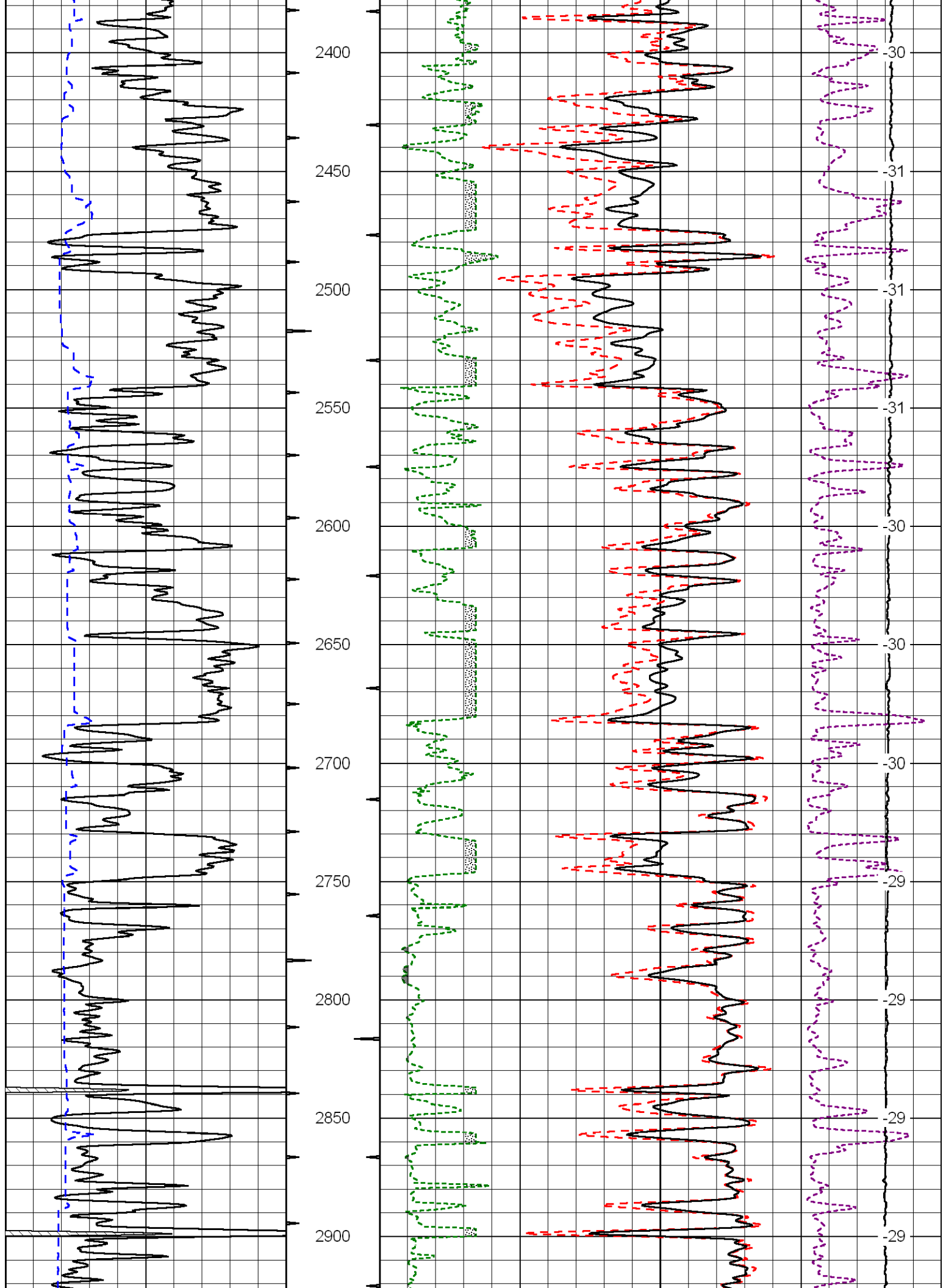
Russell,
8 1/2 South on Hwy 281 to Winterset Rd, 1 1/2 East to 187th,
1 1/2 North, East & North into

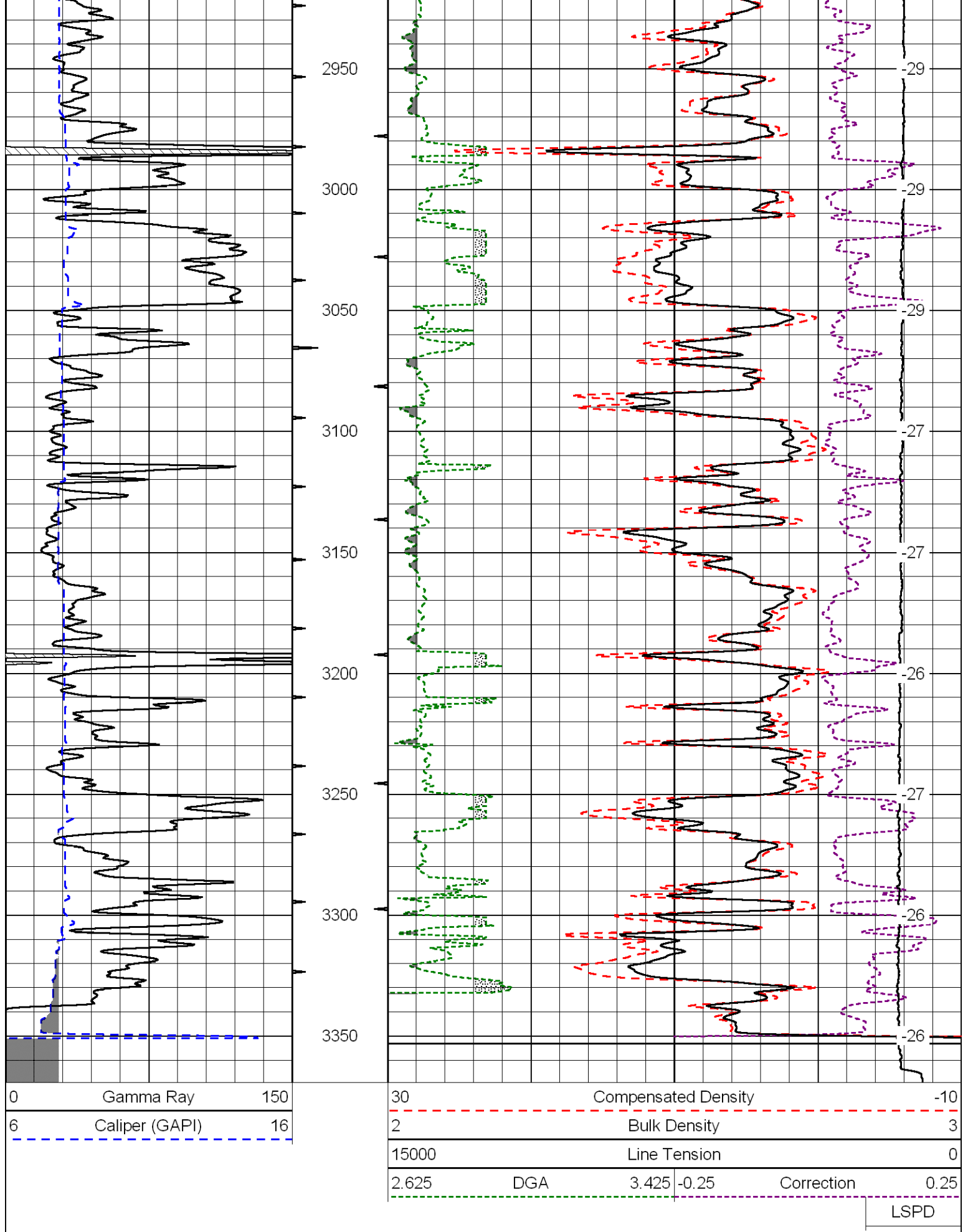
Database File: craig_110712hd.db
Dataset Pathname: dil/crgstack
Presentation Format: cdl
Dataset Creation: Wed Nov 07 13:35:22 2012
Charted by: Depth in Feet scaled 1:600

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



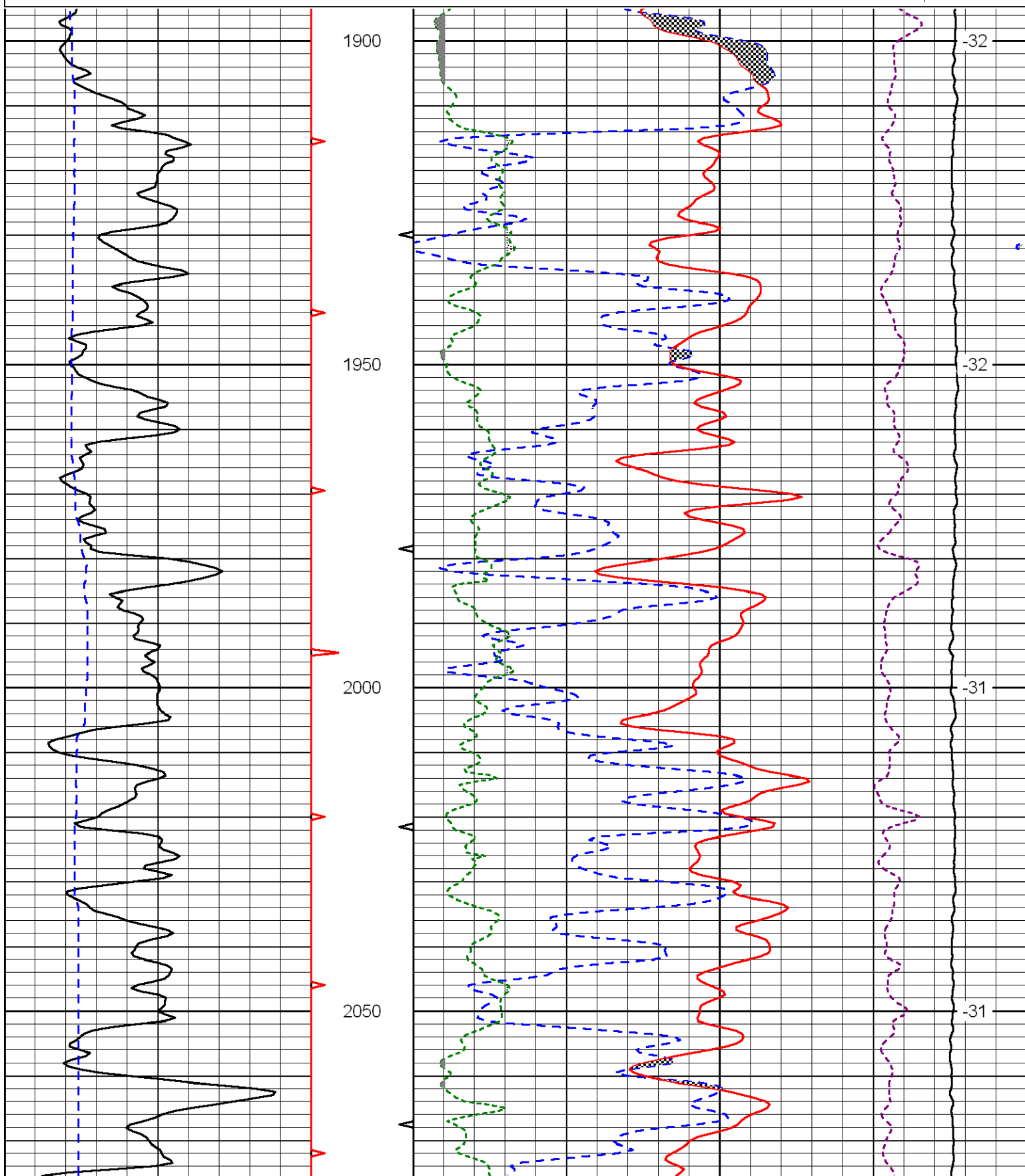


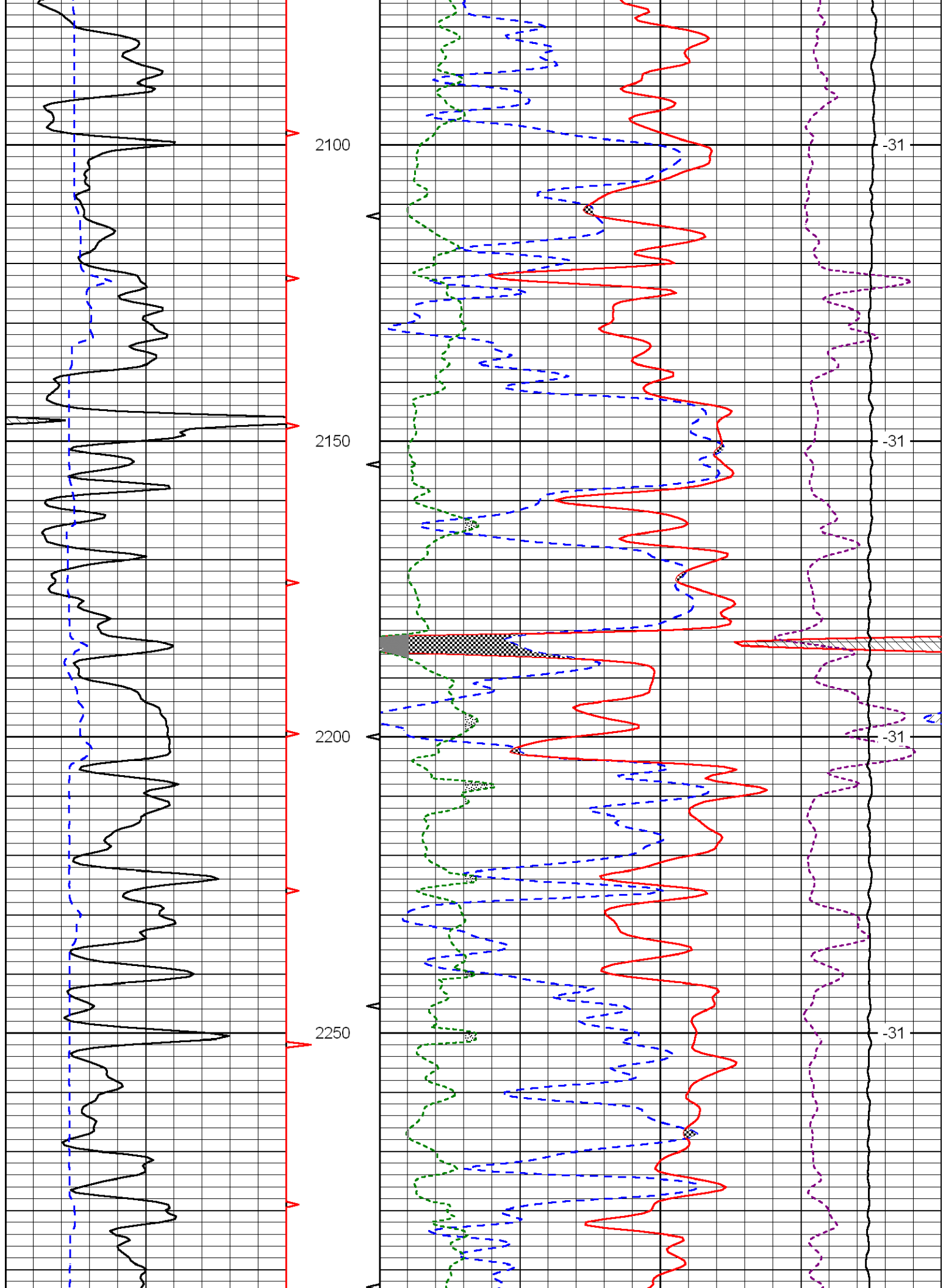


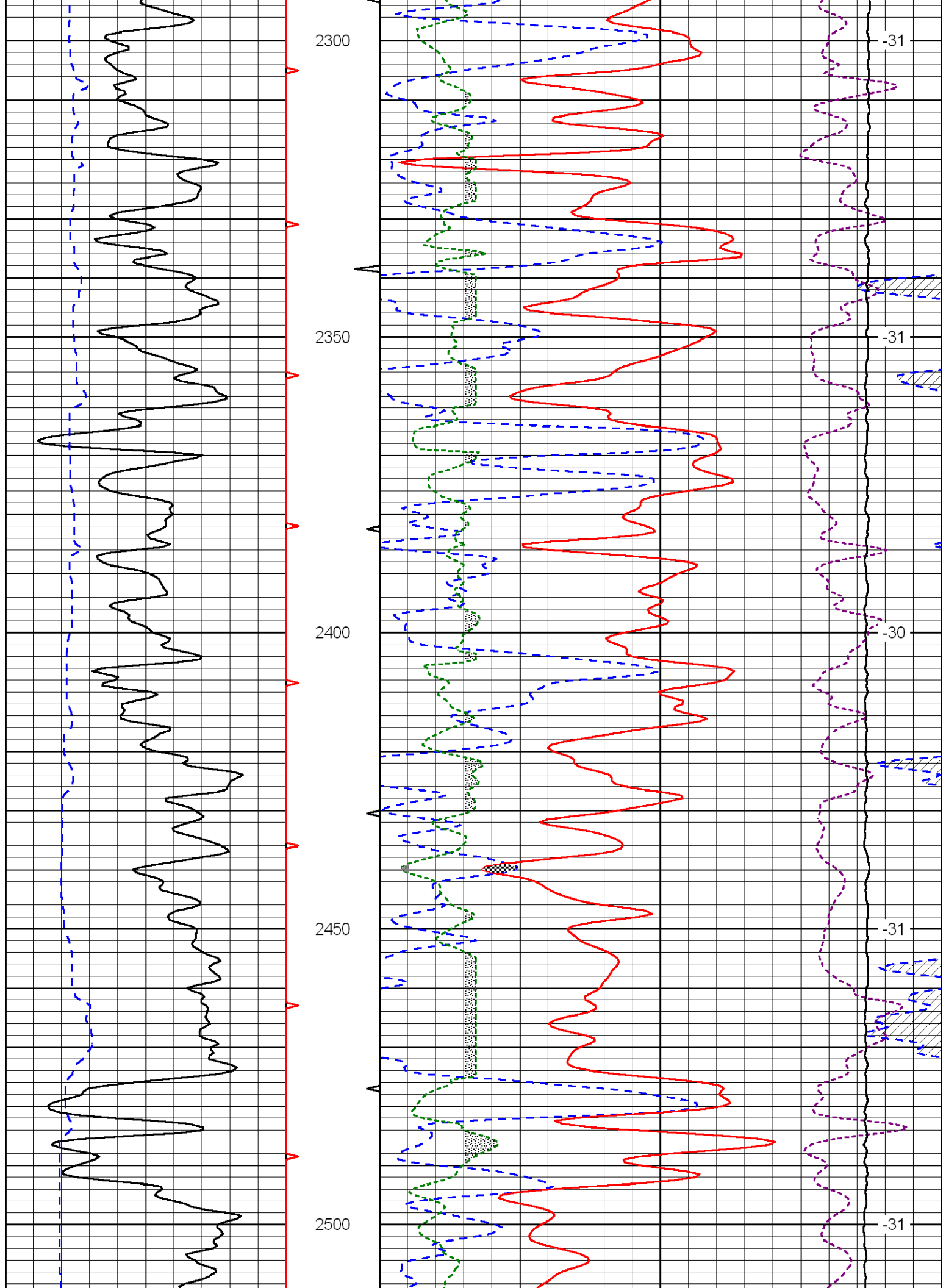
0	Gamma Ray	150
6	Caliper (GAPI)	16

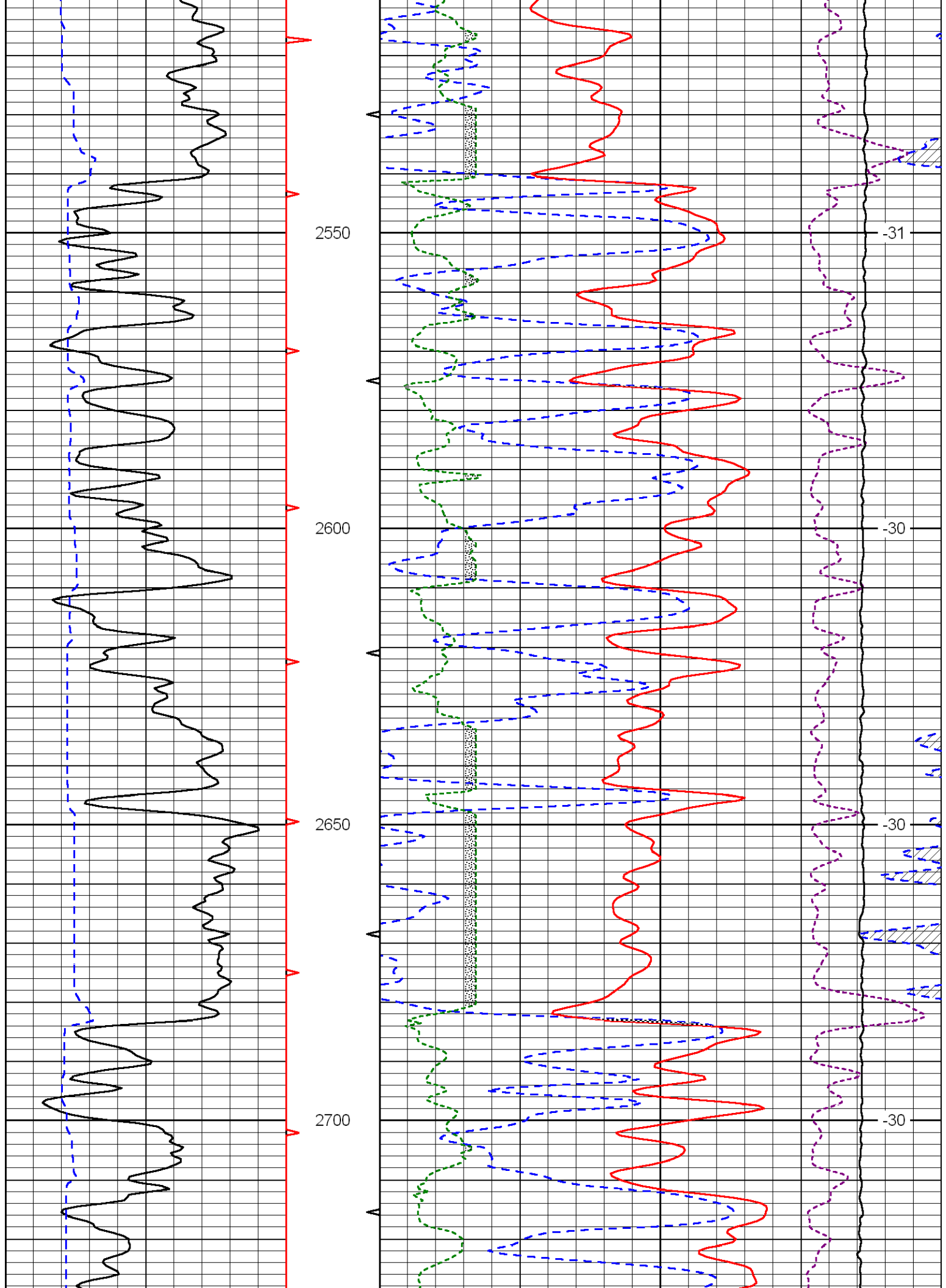
30	CNLS				-10
30	Compensated Density (2.71 ma)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension				0

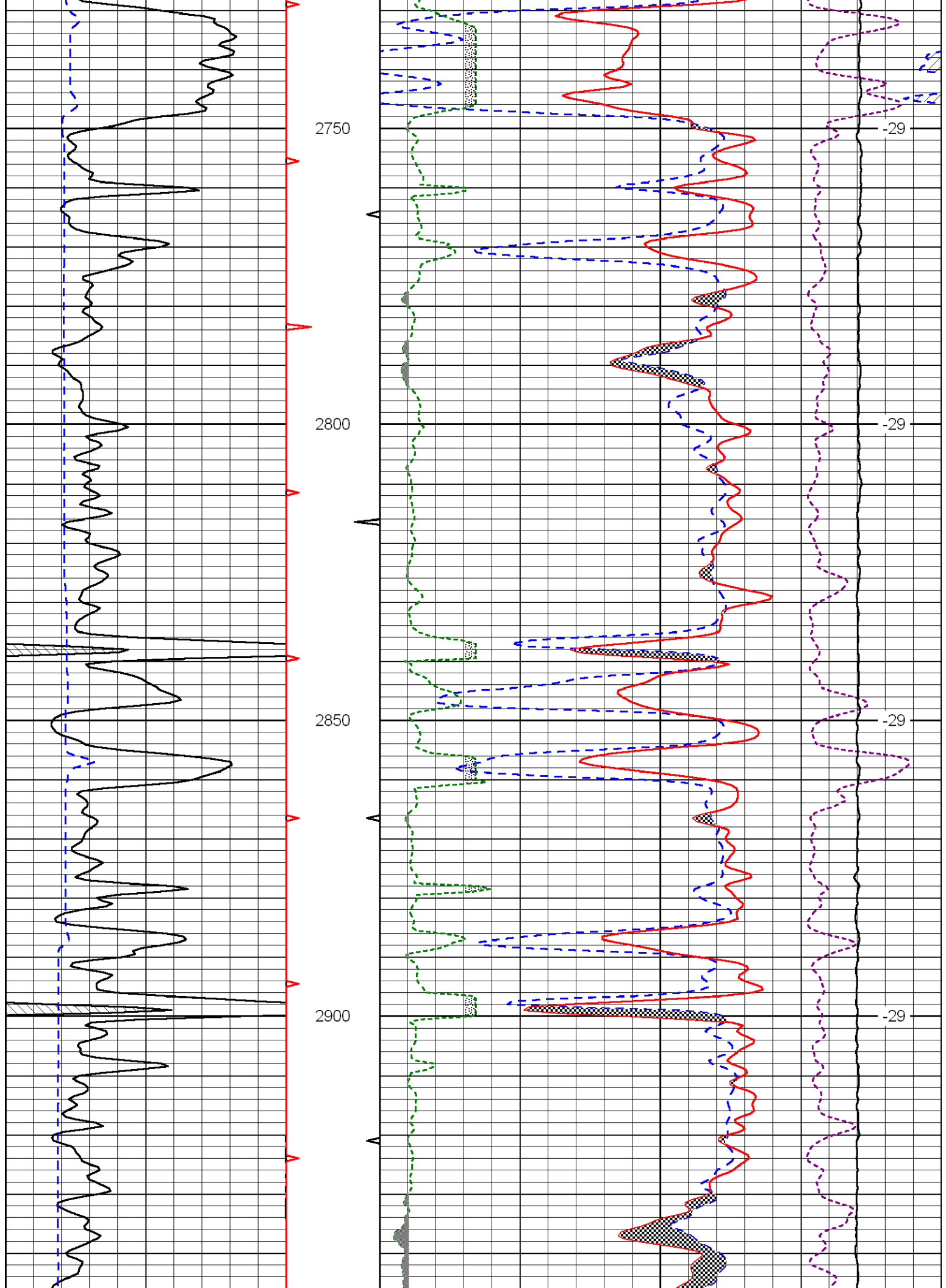
LSPD

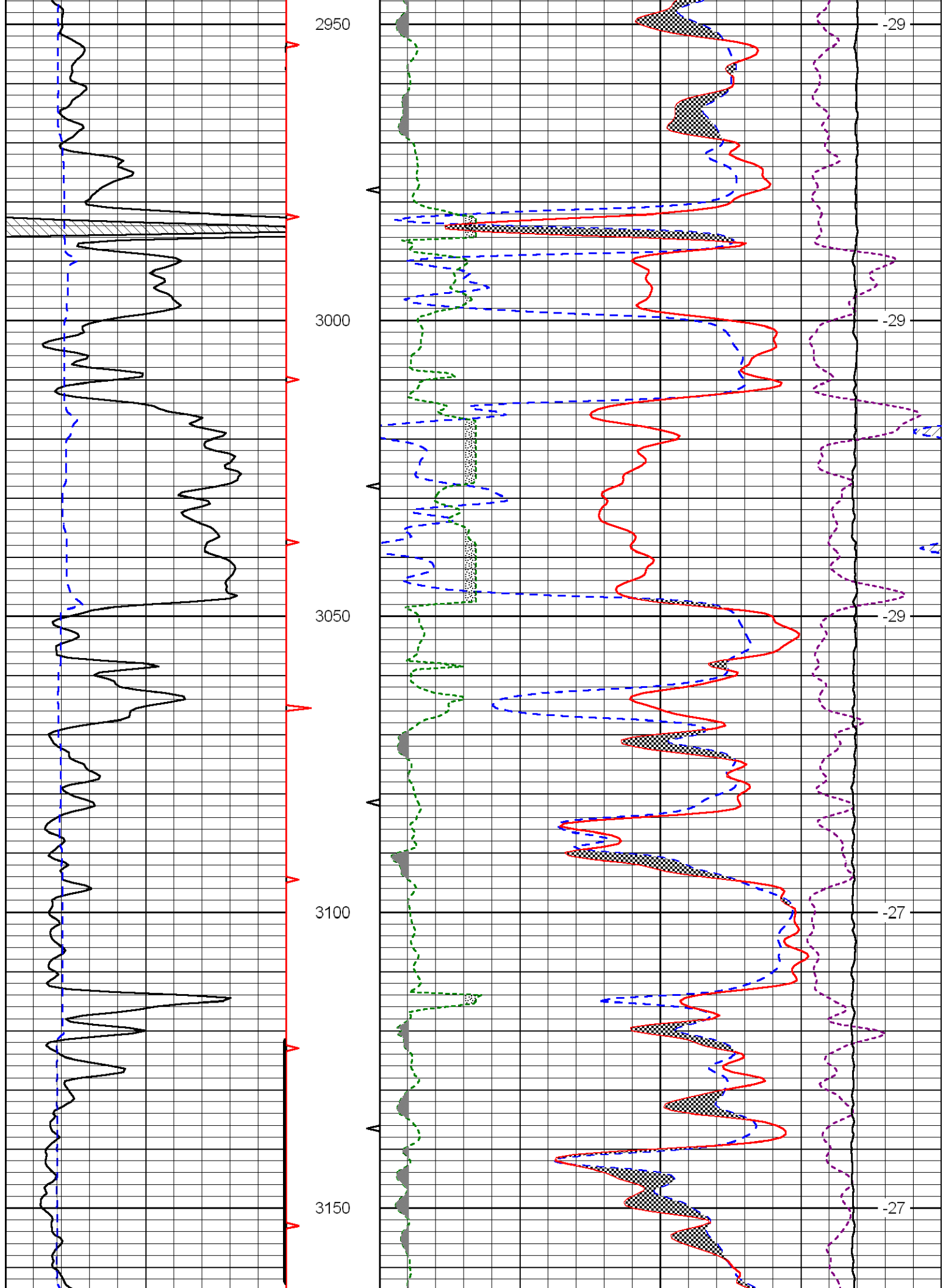


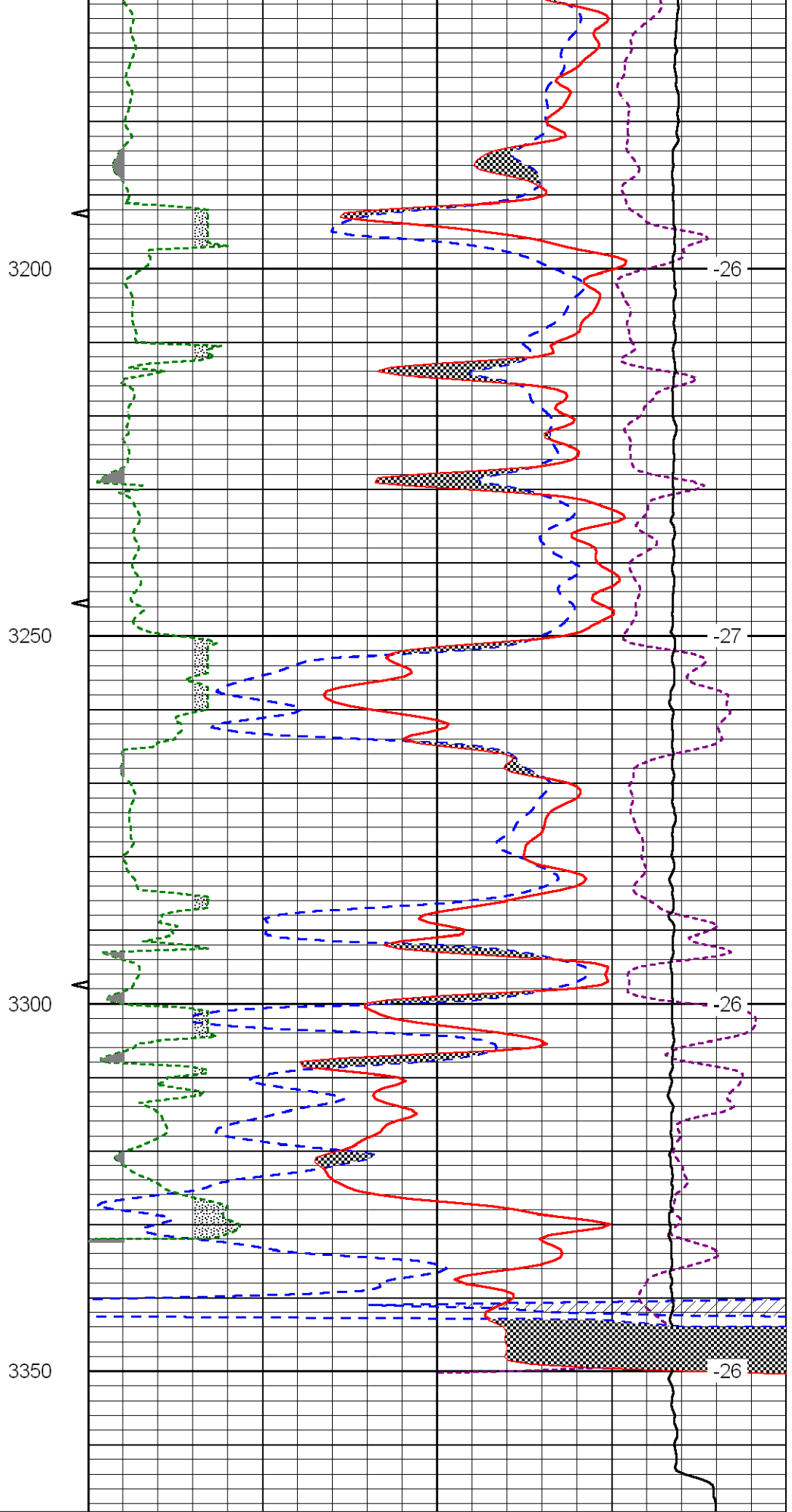
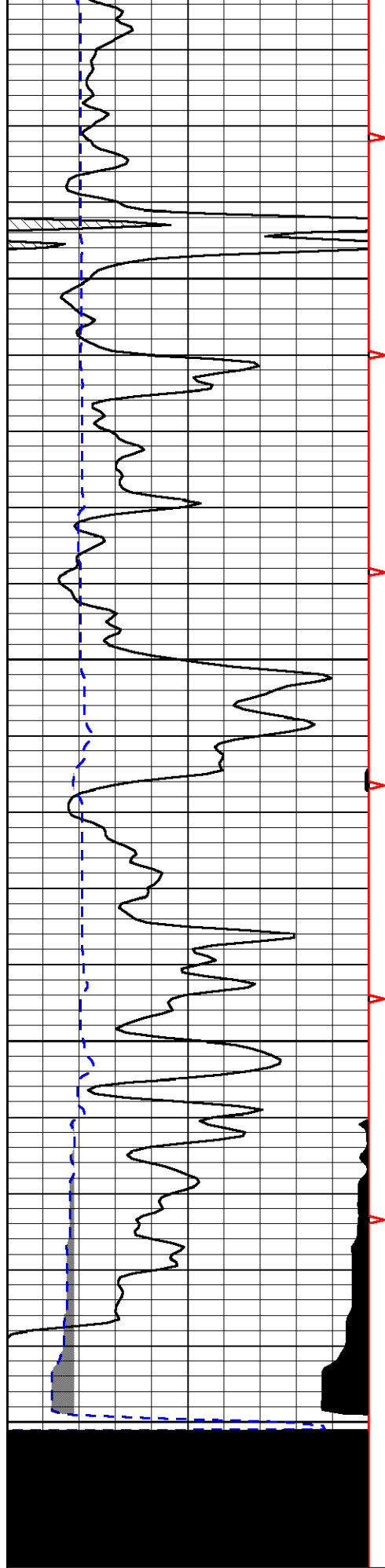












0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS	-10
30	Compensated Density (2.71 ma)	-10
2.625	DGA	3.425
0.25	Correction	0.25

	2.025	DOA	3.425	-0.25	Correction	0.25
	10000		Line Tension			0
						LSPD