



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-135-25,627-00-00

Company American Warrior, Inc.

Well Joseph No. 1 - 22

Field Chirf

County Ness

State Kansas

Location 1352' FNL & 1292' FWL

Other Services
DIL/MEI

Sec: 22 Twp: 19 S Rge: 25 W

Permanent Datum Ground Level Elevation 2462
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2473
D.F. 2462
G.L. 2462

Date 7/18/2013

Run Number One

Type Log CNL / CDL

Depth Driller 4600

Depth Logger 4600

Bottom Logged Interval 4579

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 4300

Density 9.5

Level Full

Max. Rec. Temp. F 122

Operating Rig Time 4 1/2 Hours

Equipment -- Location 108 Hays

Recorded By D. Martin

Witnessed By Kevin Timson

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 225 8.625 23# 00 225

Two 7.875 225 TD 225

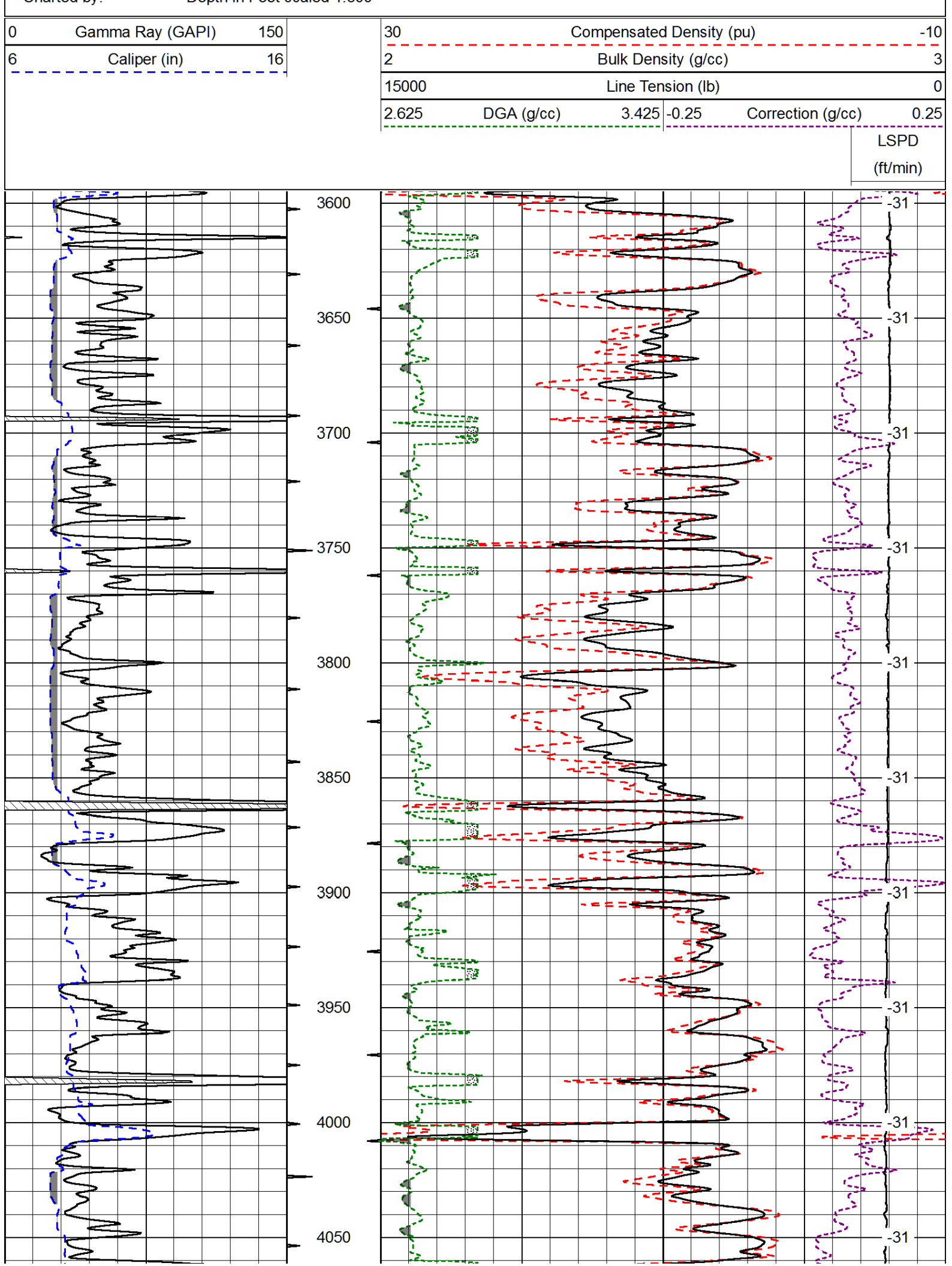
<<< Fold Here >>>

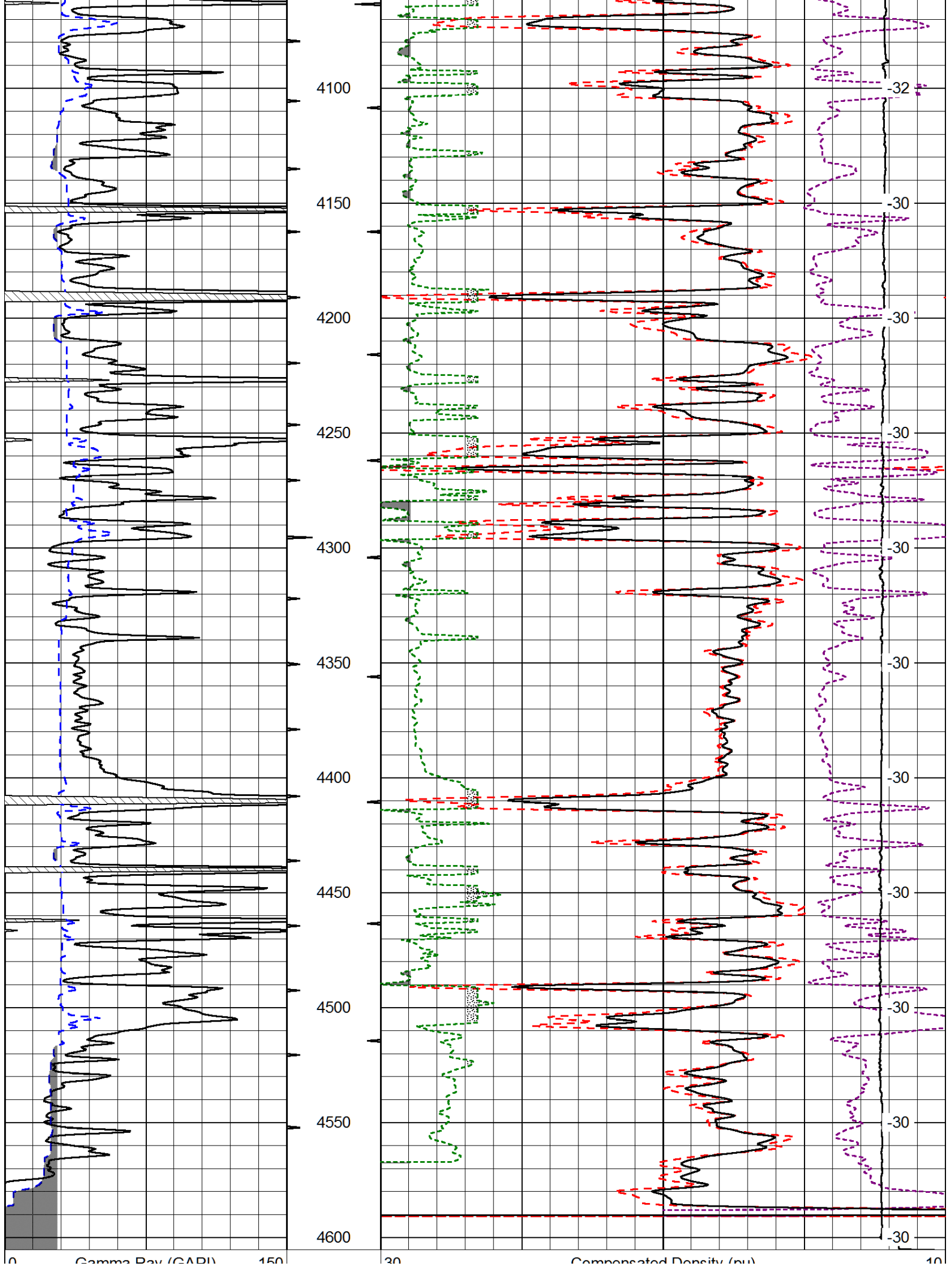
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

Ness City, KS
W to Laird Elevator, 1/2 W to J Rd.,
4 S, W Into





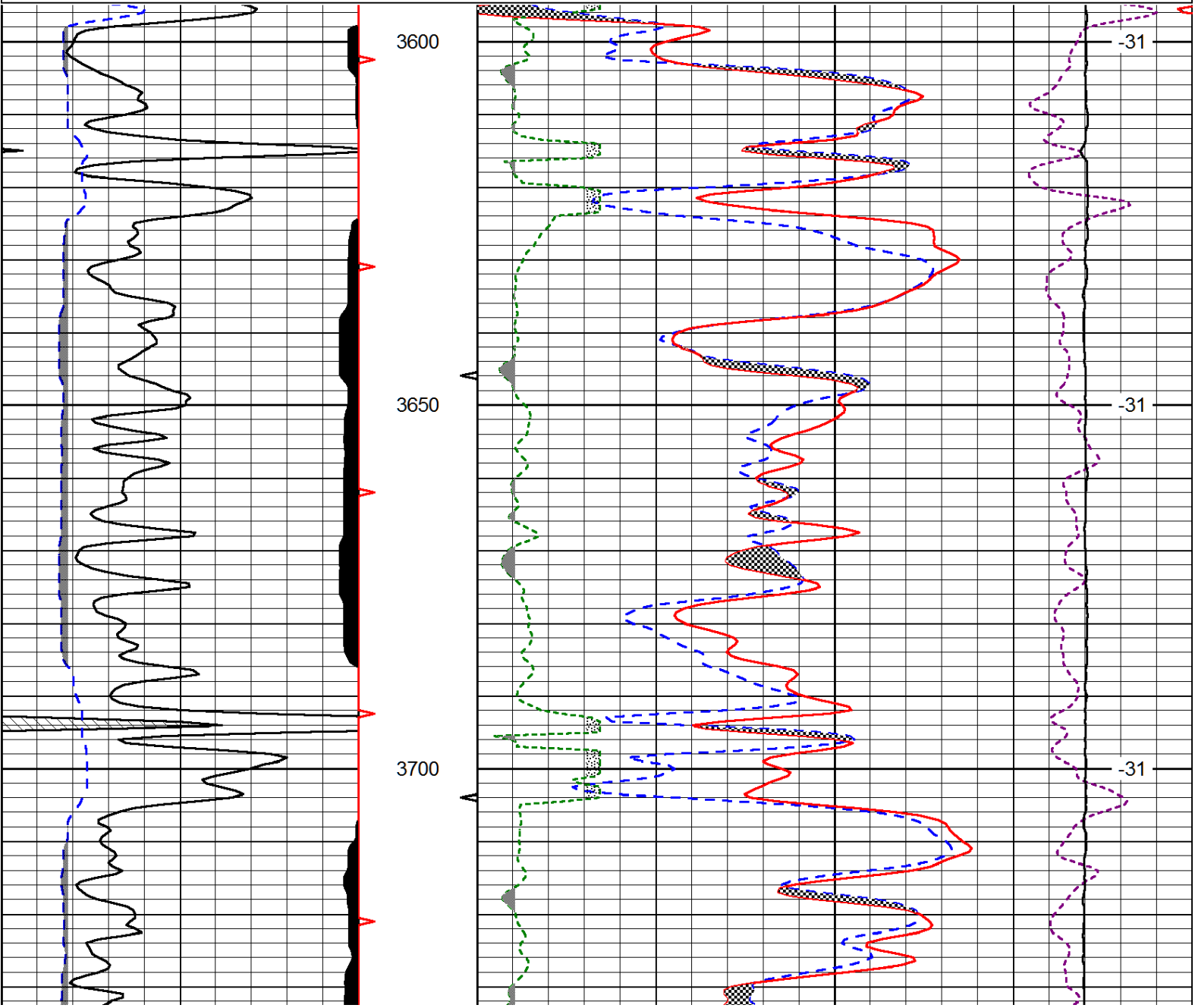
6	Gamma Ray (GAPI)	150
6	Caliper (in)	16

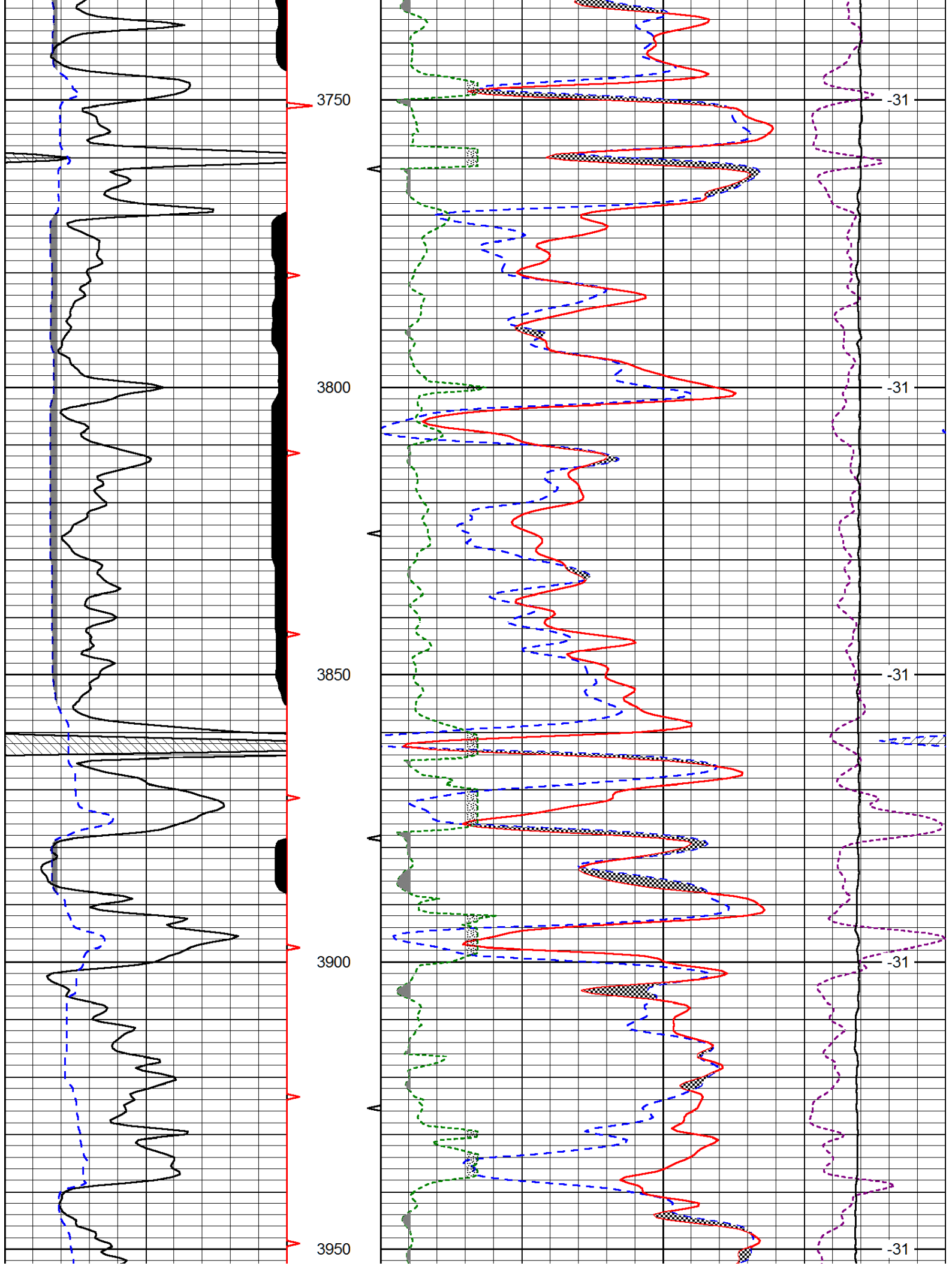
30	Compensated Density (pu)				-10
2	Bulk Density (g/cc)				3
15000	Line Tension (lb)				0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
LSPD (ft/min)					

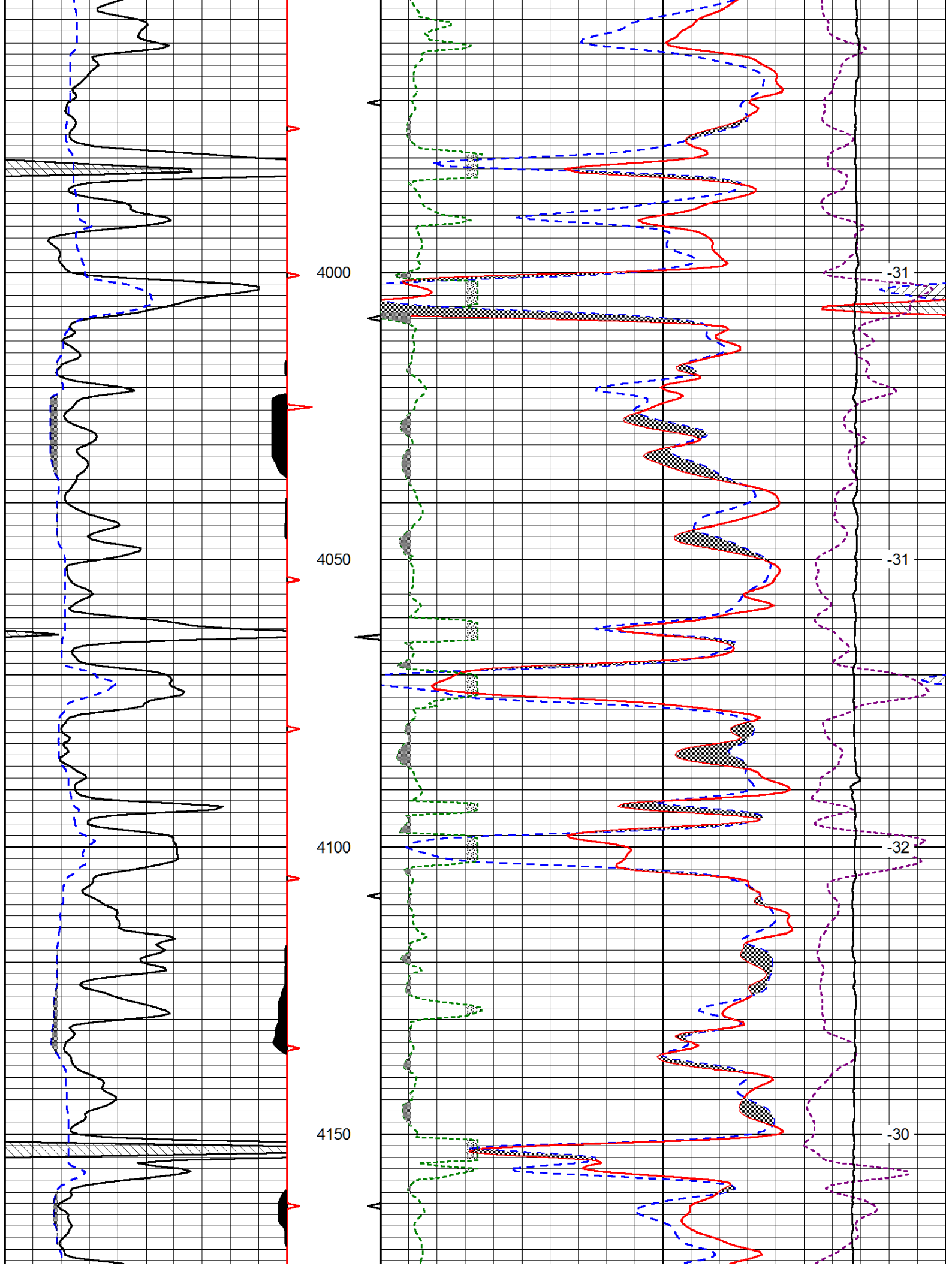
Database File:	amwarr_joseph_1-22hd.db
Dataset Pathname:	DIL/amwstk
Presentation Format:	cnlspec
Dataset Creation:	Thu Jul 18 14:55:48 2013
Charted by:	Depth in Feet scaled 1:240

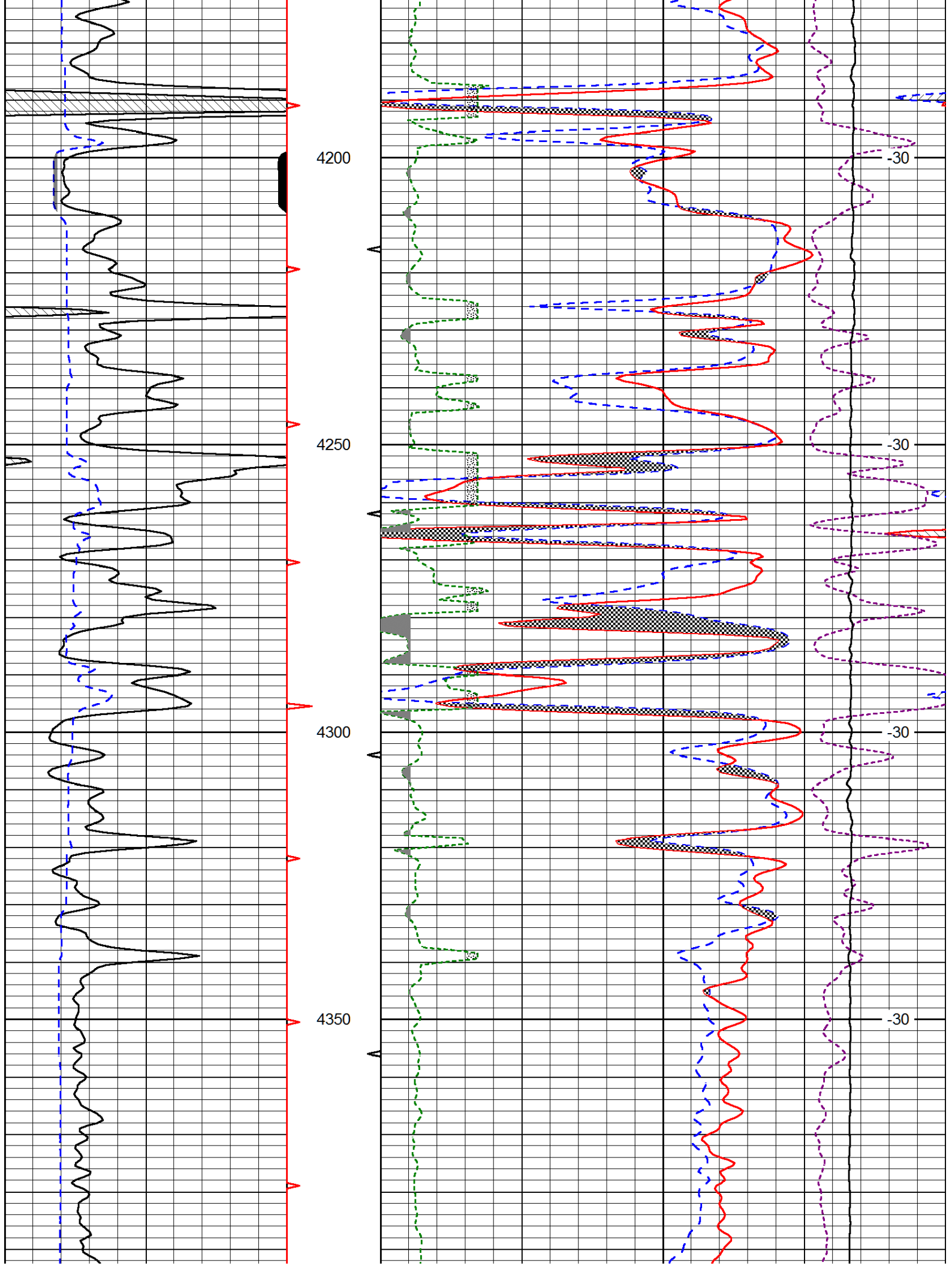
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

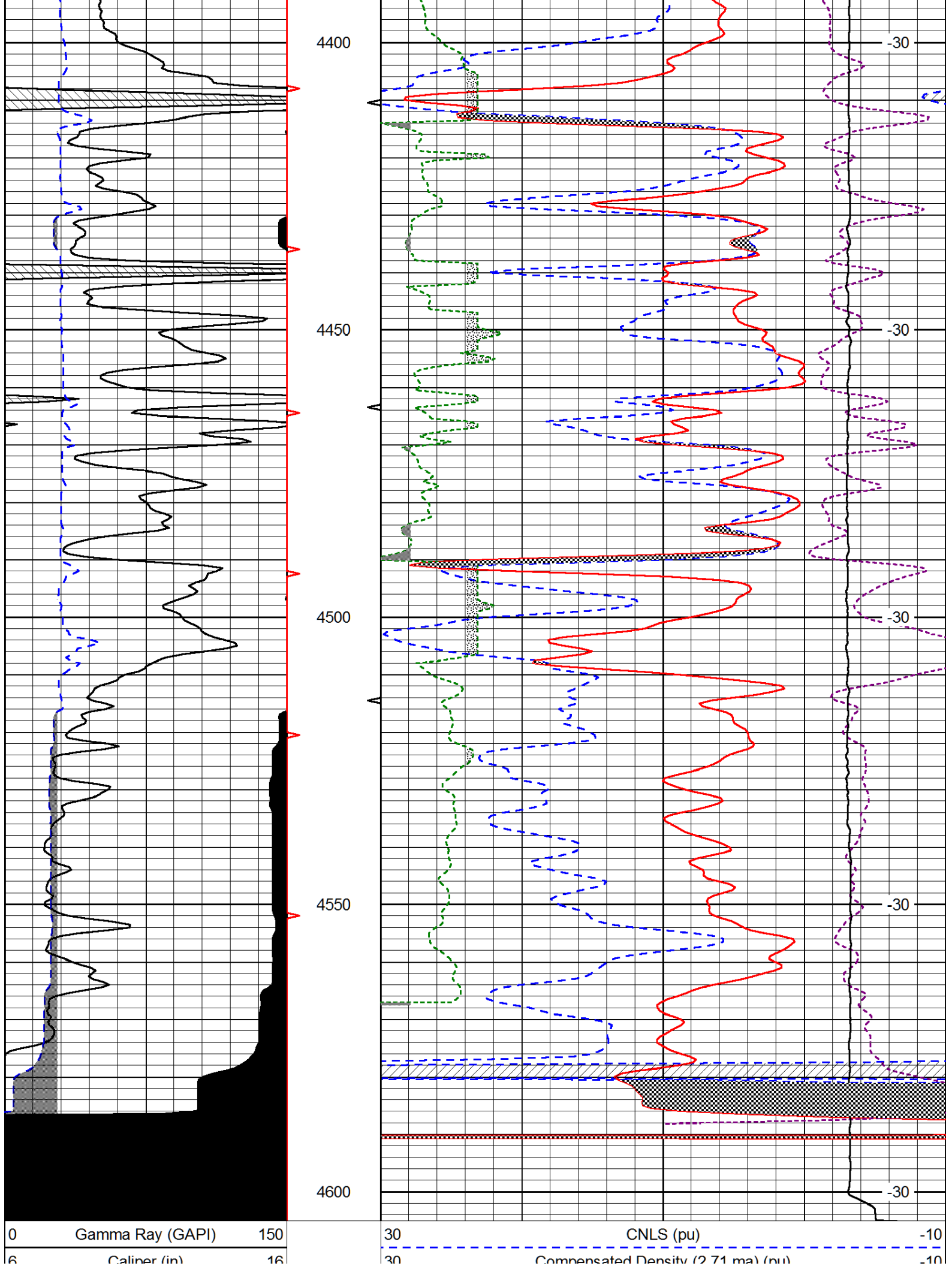
30	CNLS (pu)				-10
30	Compensated Density (2.71 ma) (pu)				-10
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0
					LSPD (ft/min)











0	Caliper (in)	10

Compensated Density (2.71 ma) (pd)					10
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0
					LSPD (ft/min)