



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-065-23,947-00-00

Company H&C Oil Operating, Inc.

Well Michele No.13-1

Field Keith

County Graham

State Kansas

Location 1650' FSL & 2310' FWL

Other Services
DIL/MEI

Sec: 13 Twp: 9S Rge: 25W

Permanent Datum Ground Level Elevation 2543
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2548
D.F. 2543
G.L. 2543

Date 7/3/2013

Run Number One

Type Log CNL / CDL

Depth Driller 4170

Depth Logger 4172

Bottom Logged Interval 4151

Top Logged Interval 3500

Type Fluid In Hole Chemical

Salinity, PPM CL 1,800

Density 9.1

Level Full

Max. Rec. Temp. F 118

Operating Rig Time 4 Hours

Equipment -- Location 17 Days

Recorded By C. Desaire

Witnessed By Mike Bair

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 258 8.625 23# 00 258

Two 7.875 258 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.

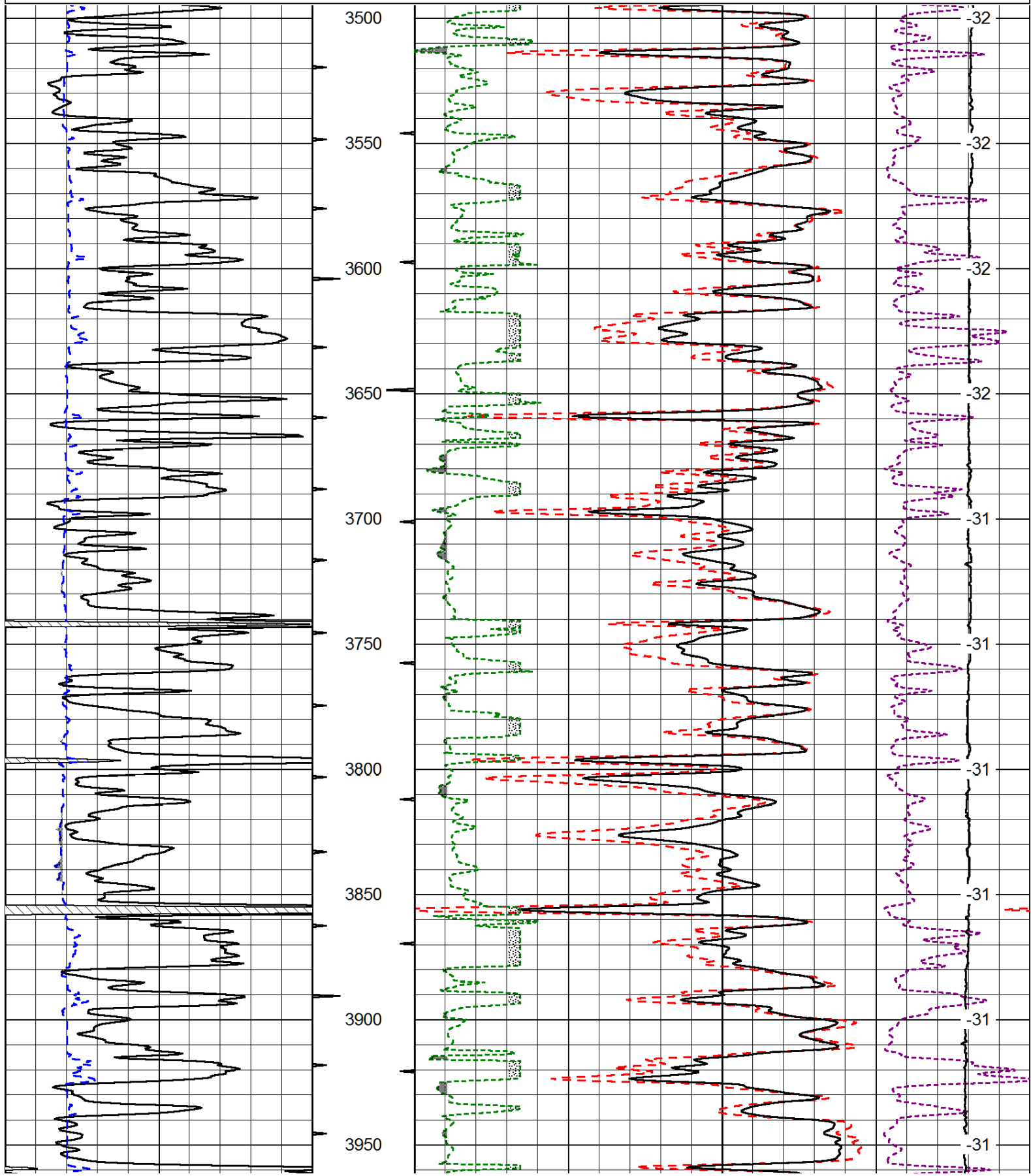
Comments

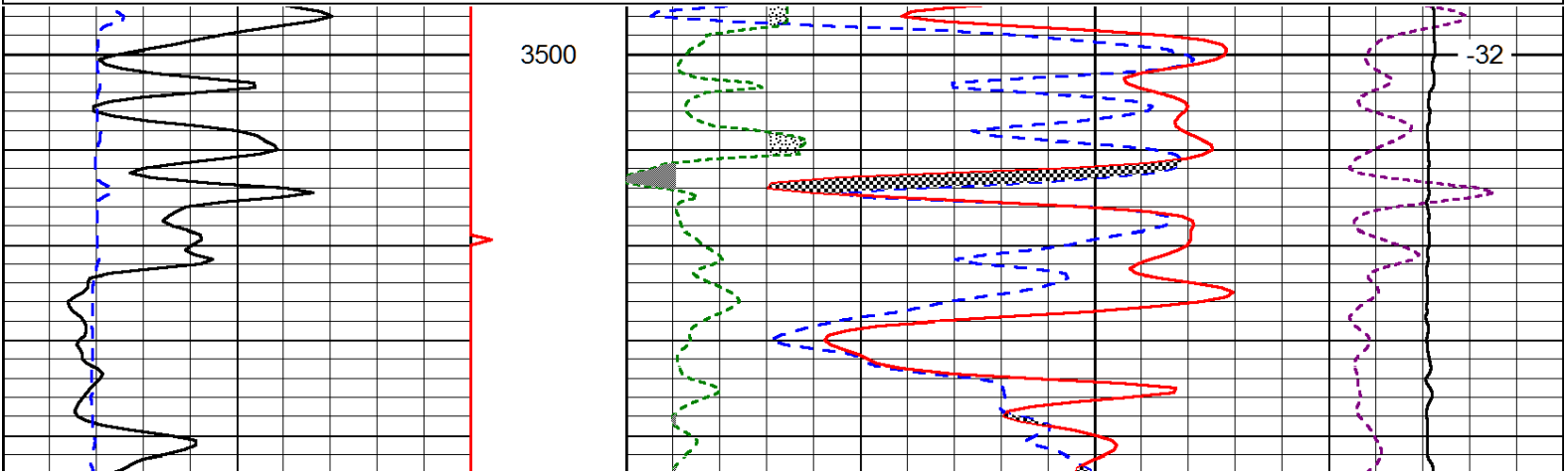
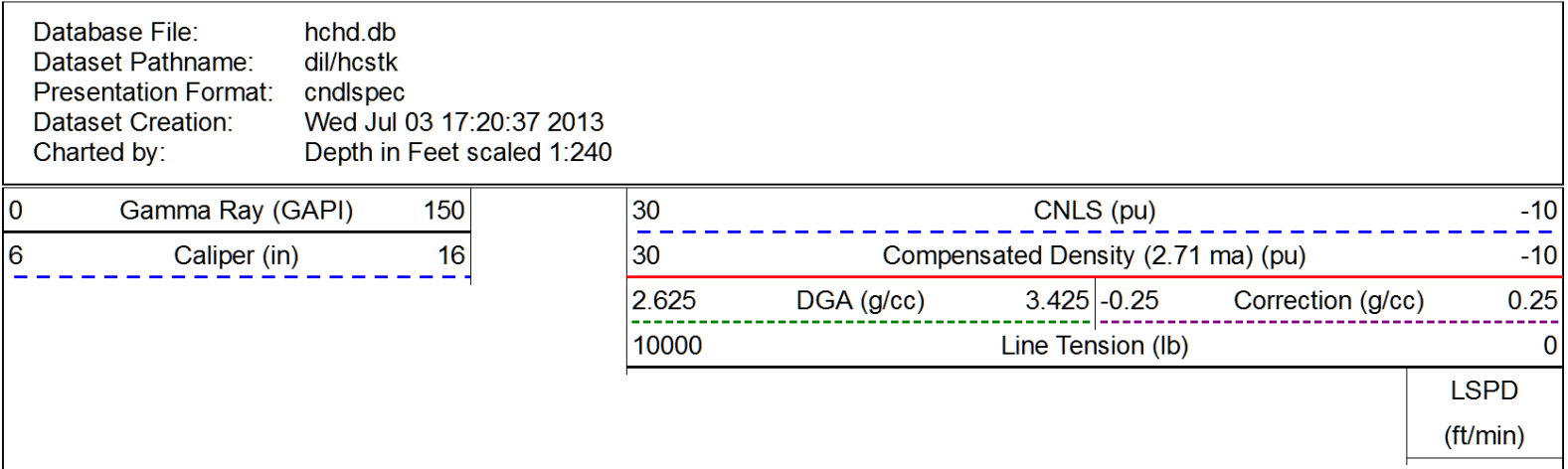
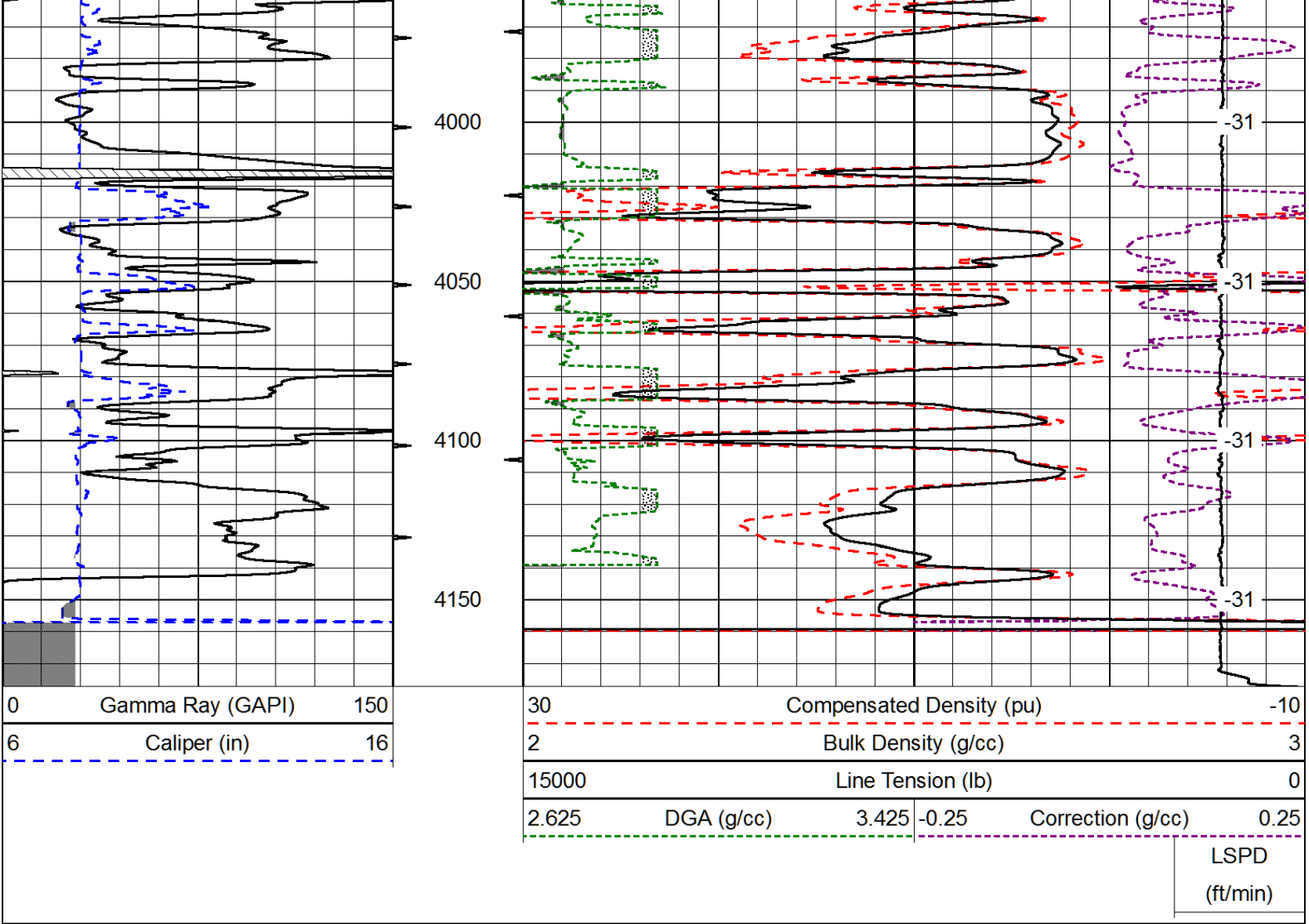
Thank you for using Log-Tech, Inc.
(785) 625-3858

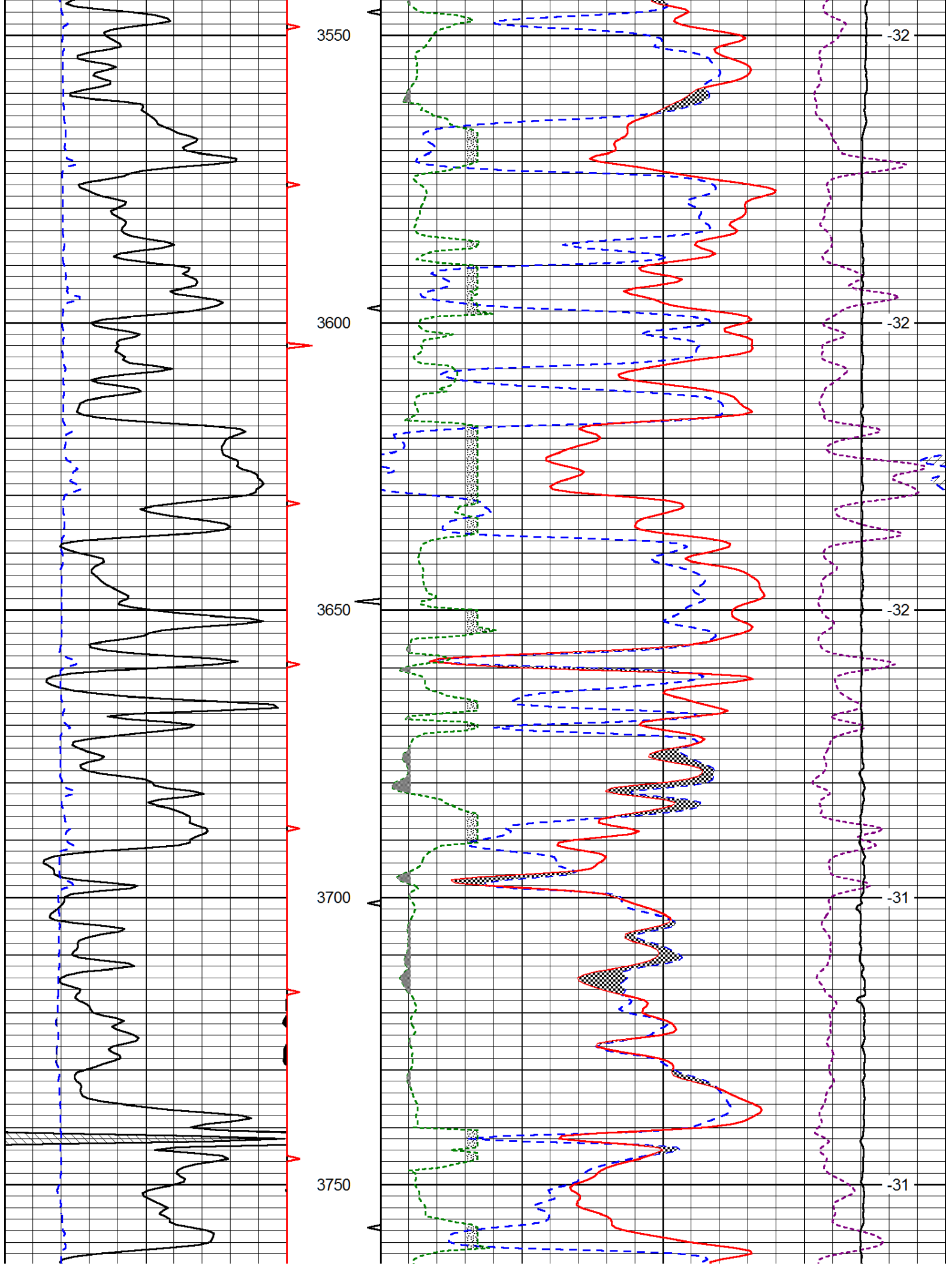
Wakeeney KS, N to H Rd, 11 W to 150 Rd,
3 N, 1/2 E, 3/4 S Into

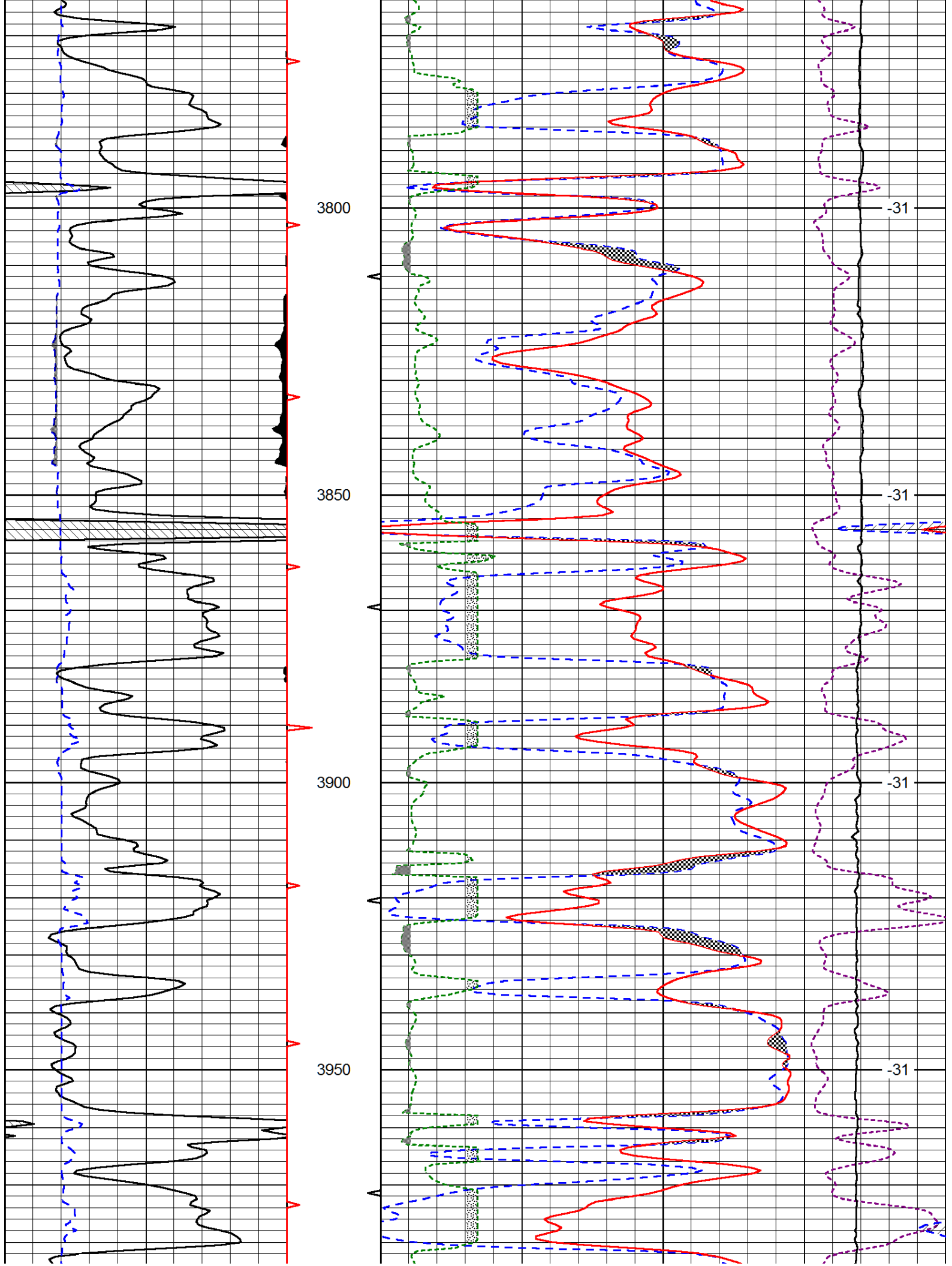
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

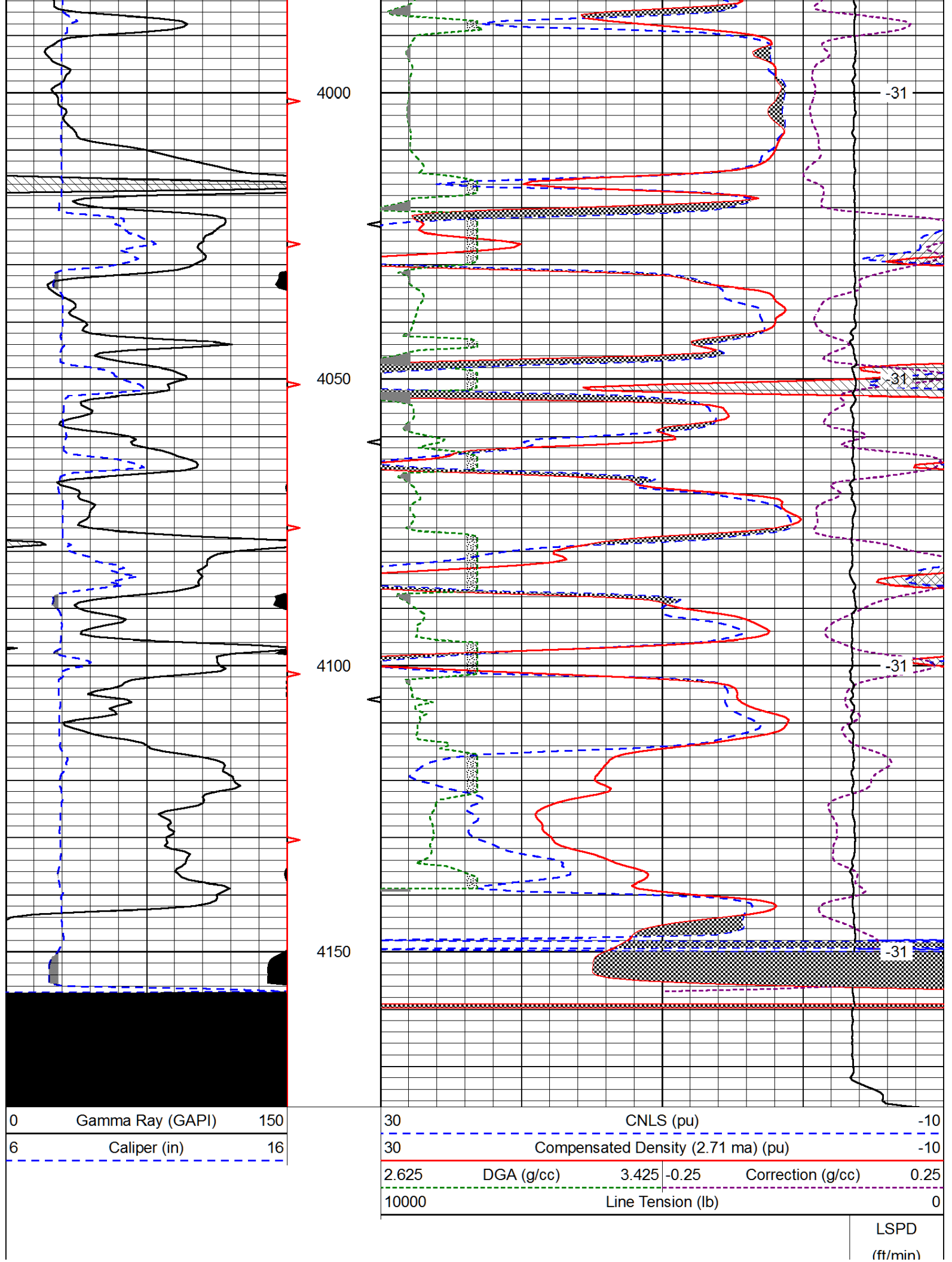
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25
	LSPD		(ft/min)











[illegible]