



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-101-22500-00-00

Company **Larson Engineering, Inc.**

Well **Boomhower B # 1-16**

Field **Wildcat**

County **Lane**

State **Kansas**

Location **2265' FSL & 342' FEL**

Other Services
DIL/MEI

Sec: 16 Twp: 17 S Rge: 29 W

Permanent Datum Ground Level Elevation 2799
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2806
D.F. 2799
G.L. 2799

Date 04-09-2014

Run Number One

Type Log CNL / CDL

Depth Driller 4640

Depth Logger 4637

Bottom Logged Interval 4616

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 2000

Density 9.4

Level Full

Max. Rec. Temp. F 122

Operating Rig Time 4 Hours

Equipment -- Location 17 Days

Recorded By Y. Ruiz

Witnessed By Vern Schrag

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 264 8.625 23# 00 264

Two 7.875 264 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

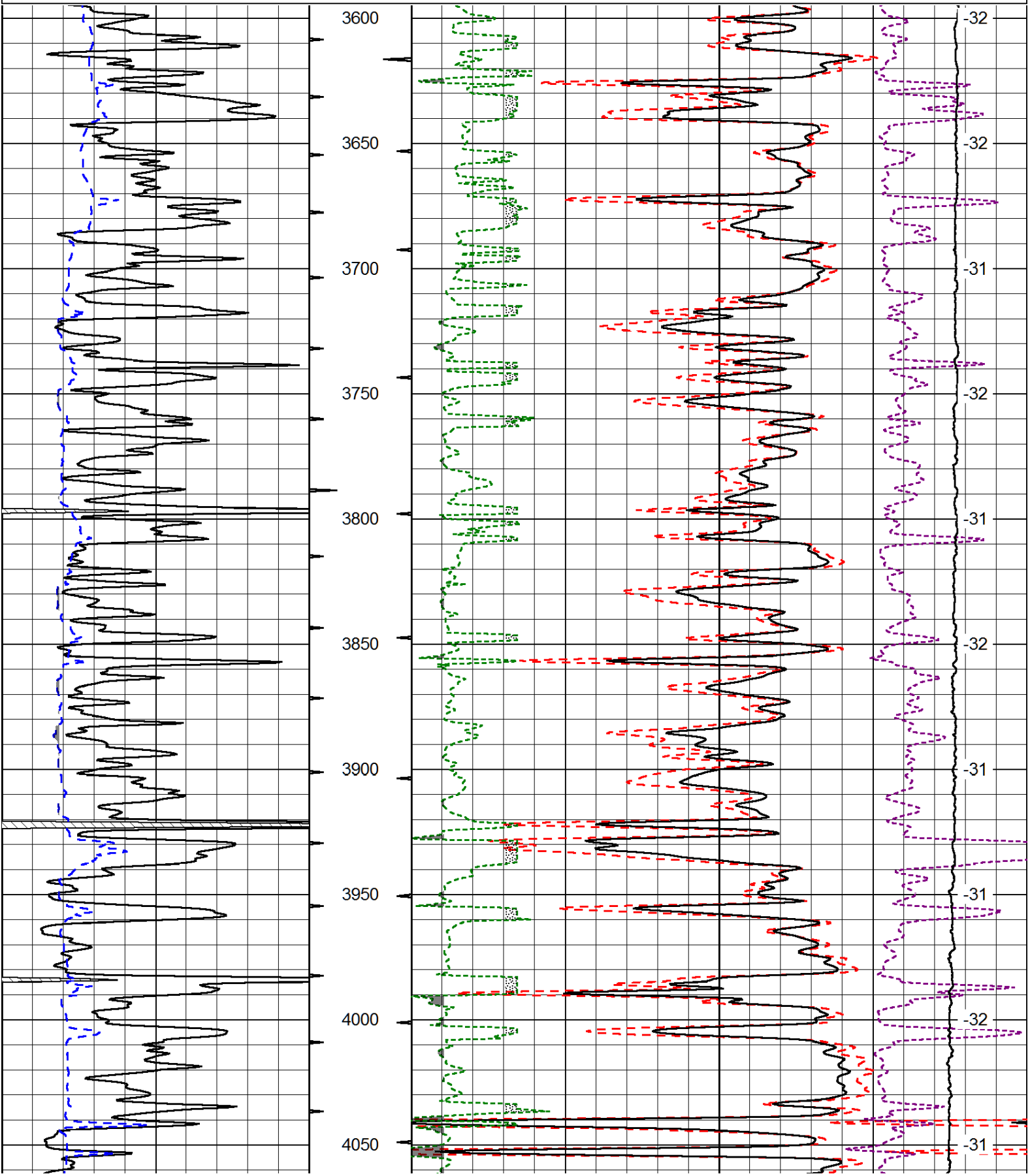
Thank you for using Log-Tech, Inc.
(785) 625-3858

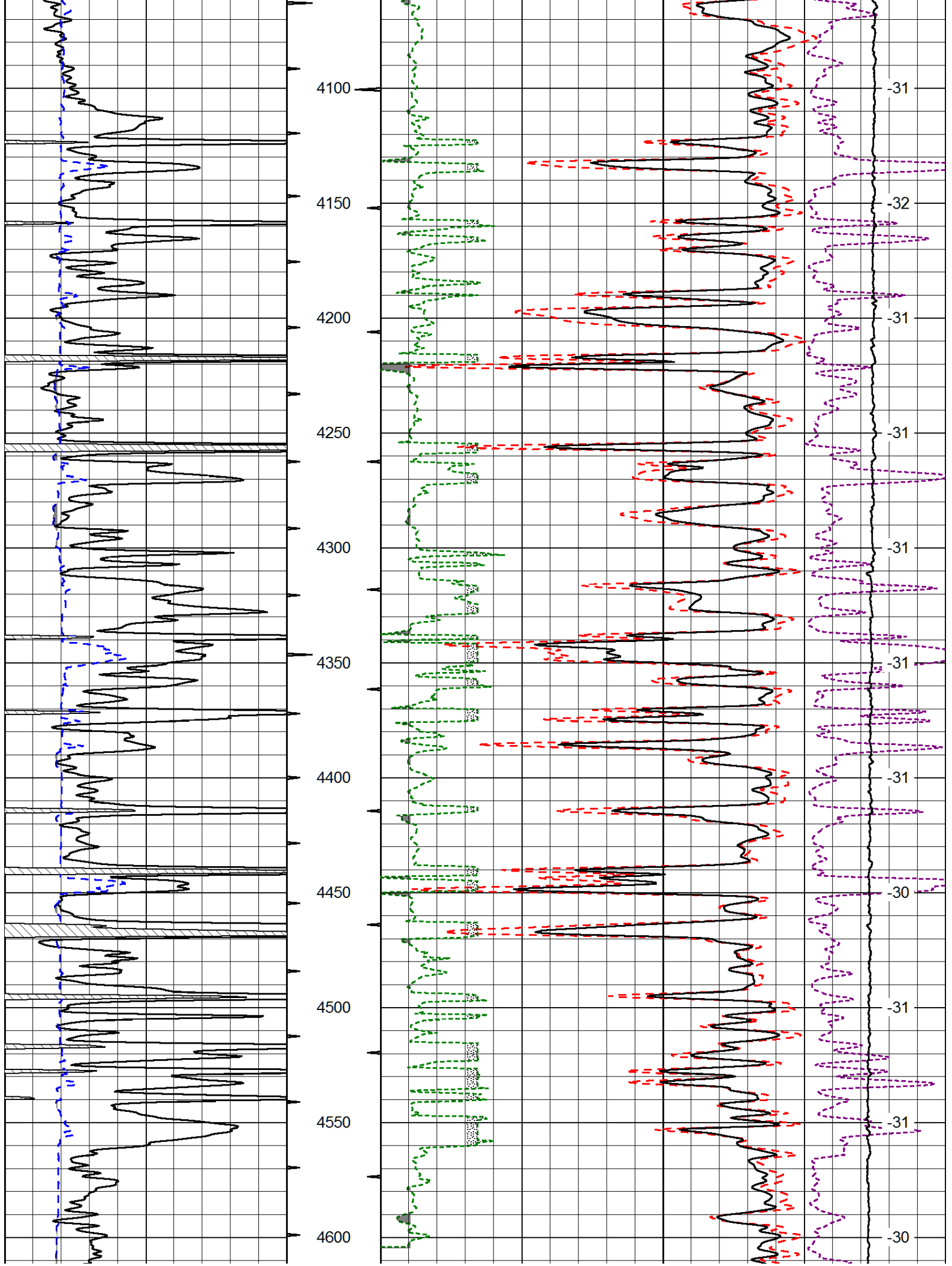
Dighton, 3 W to Ike Rd, 6 1/2 N, W into or
Healy, 5 M E on Hwy 4 to Ike Rd, 2 1/4 S, W into

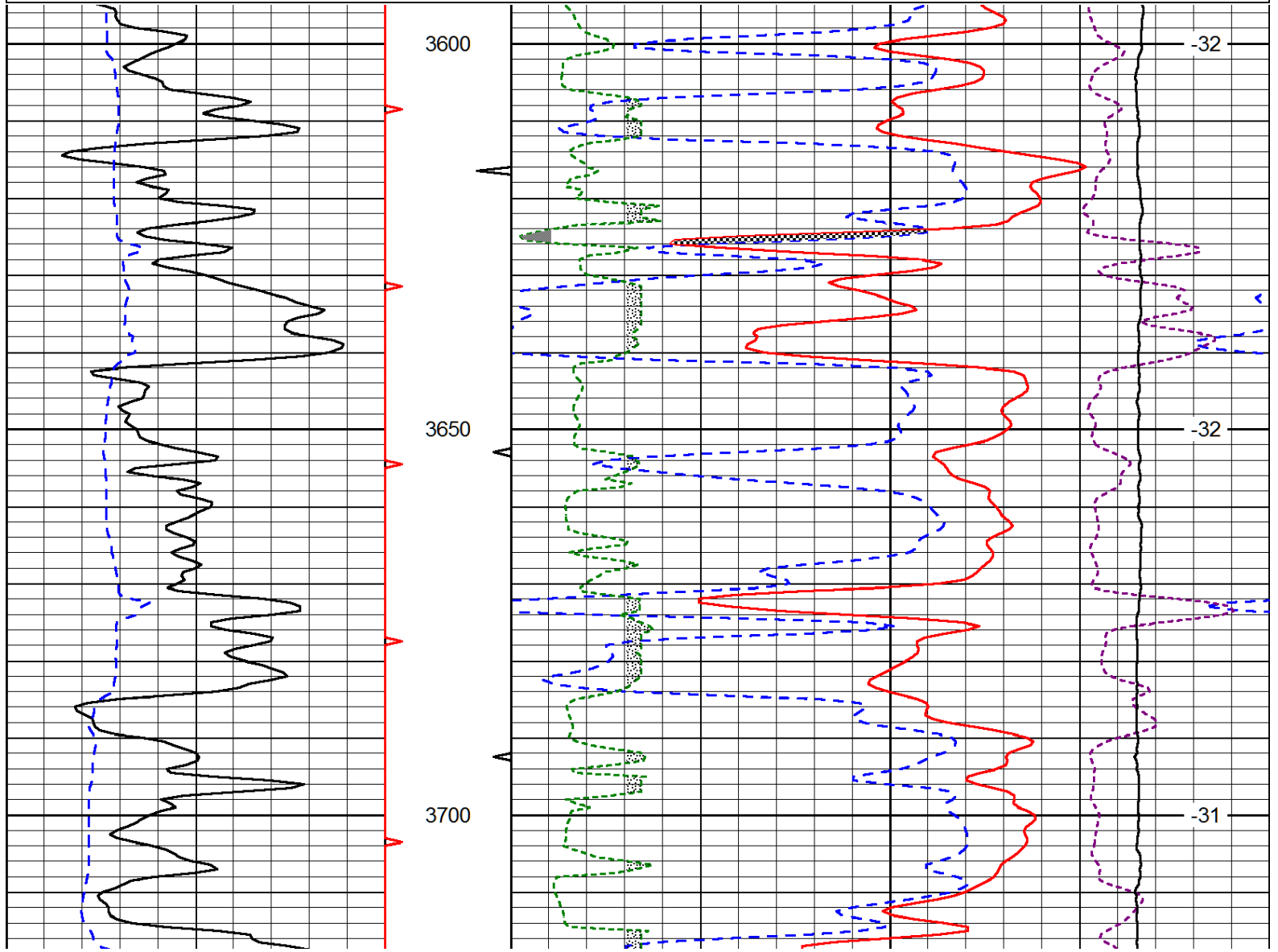
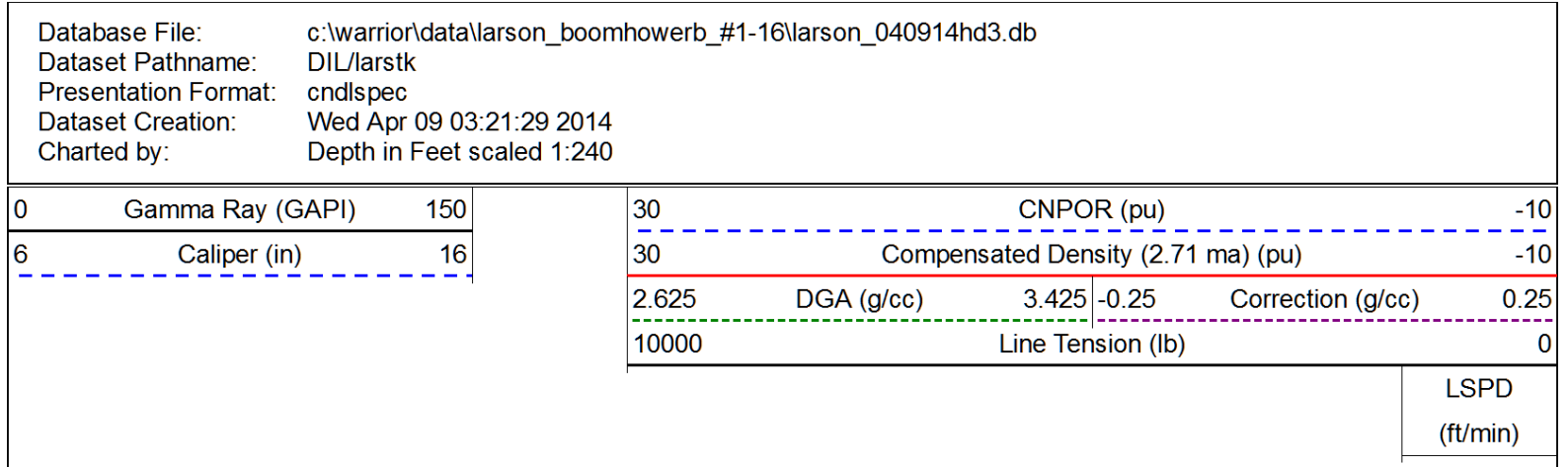
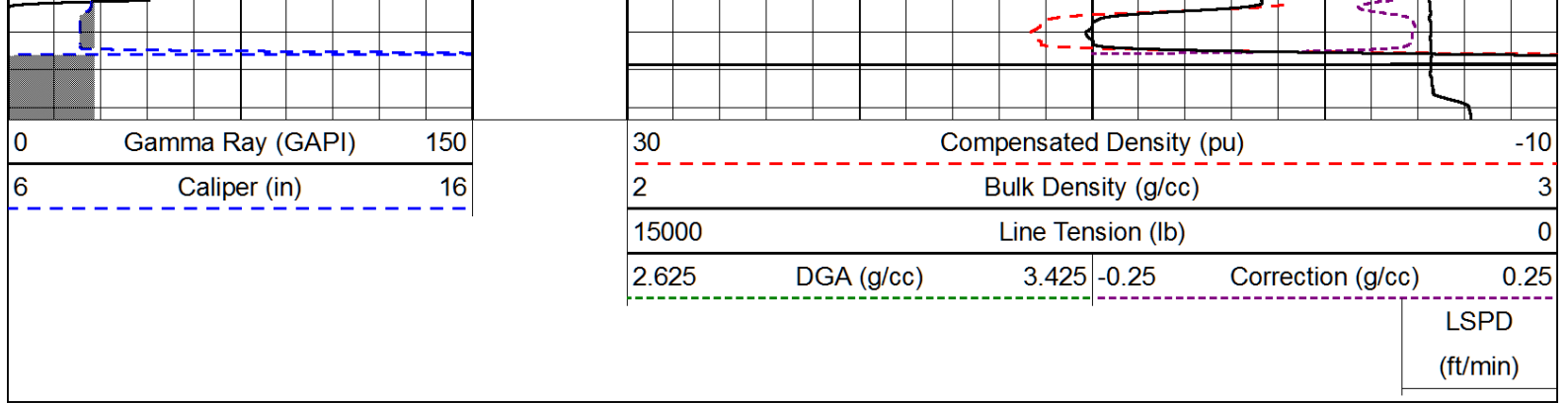
Database File: c:\warrior\data\larson_boomhowerb_#1-16\larson_040914hd3.db
Dataset Pathname: DIL\larstk
Presentation Format: cdl
Dataset Creation: Wed Apr 09 03:21:29 2014
Charted by: Depth in Feet scaled 1:600

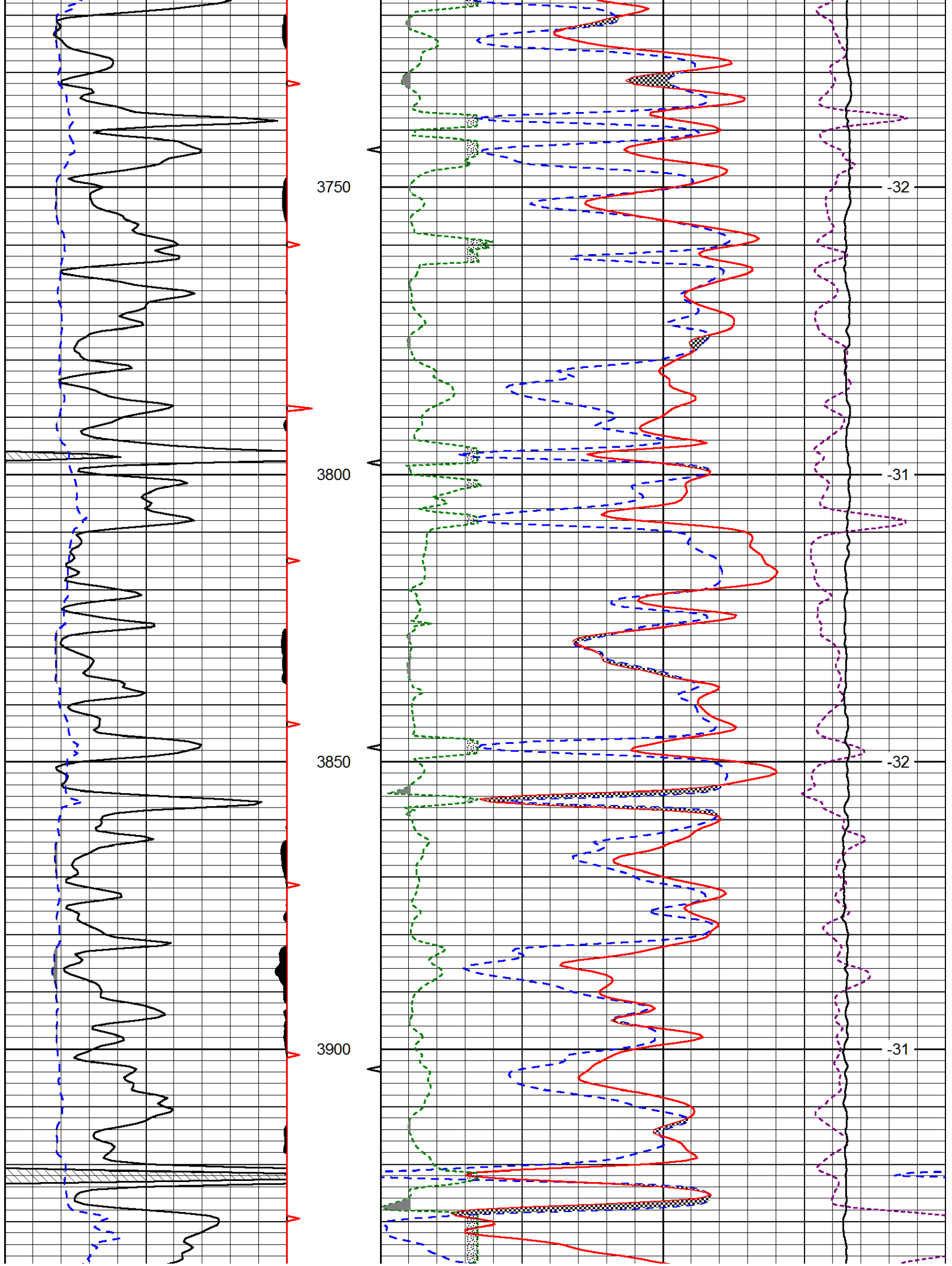
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

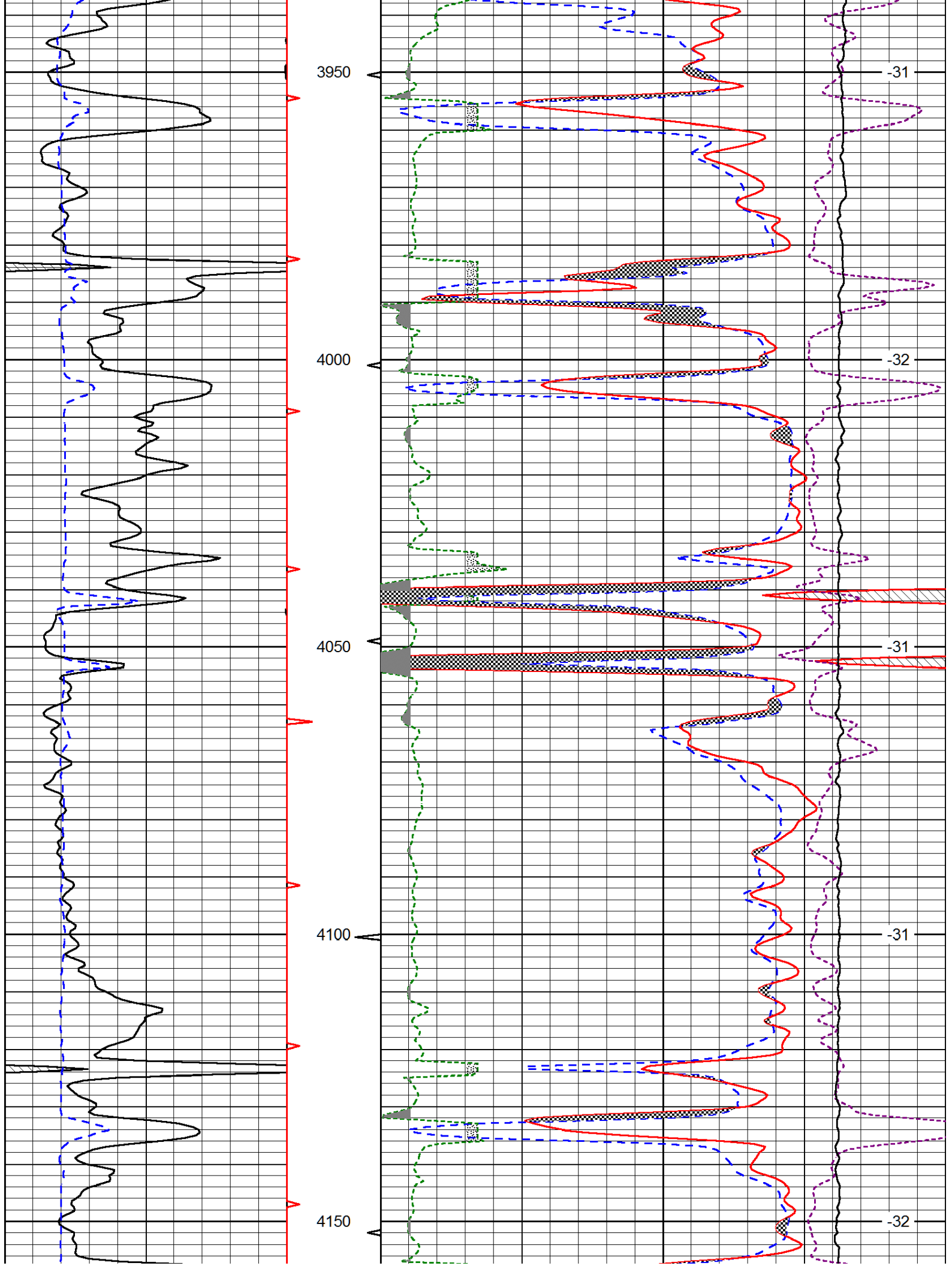
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25
	LSPD		(ft/min)

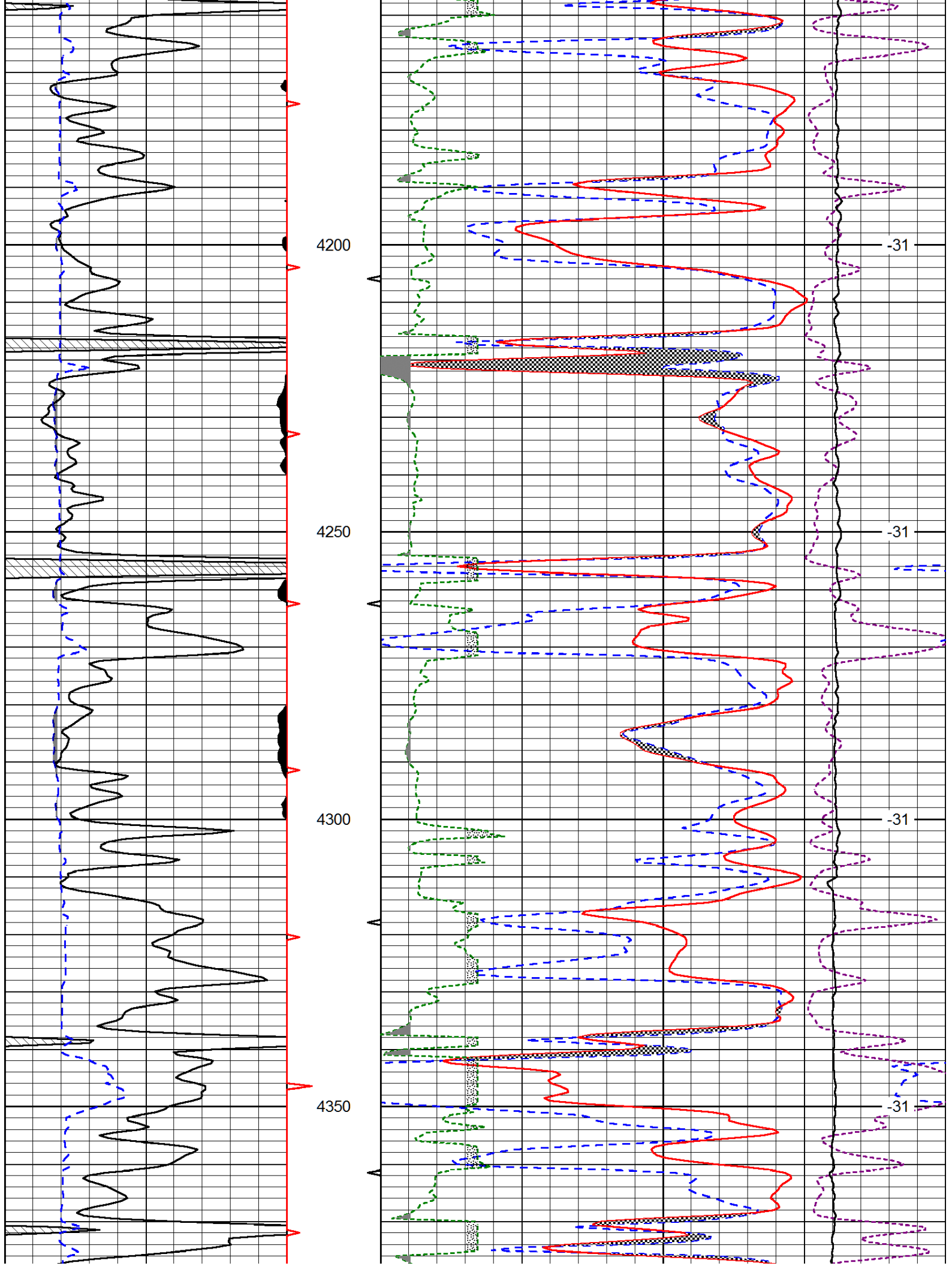


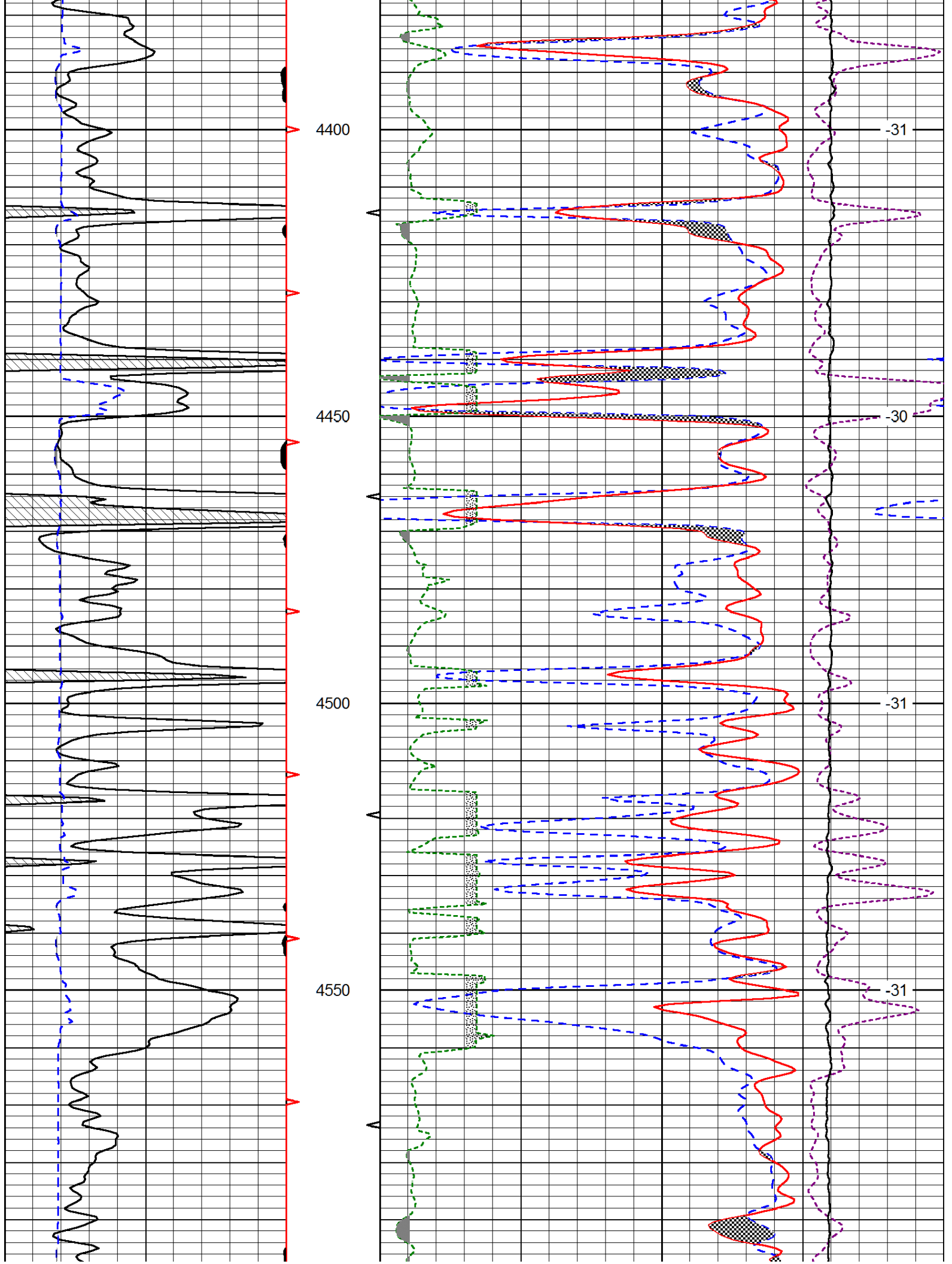


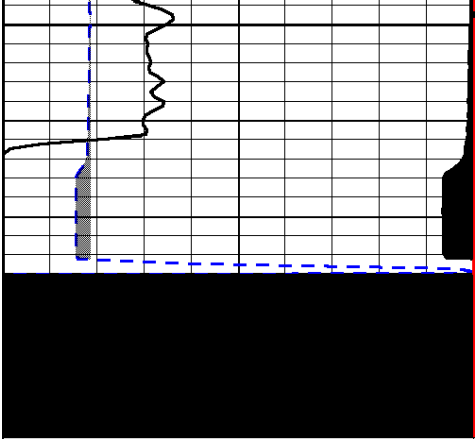




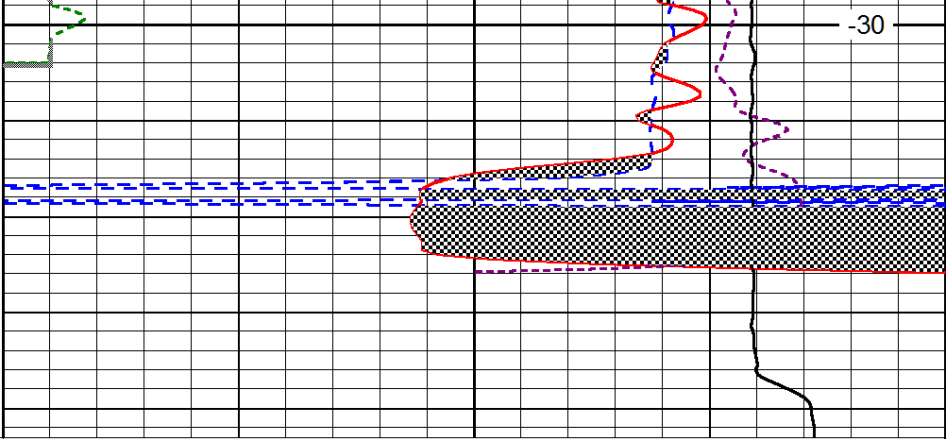








0	Gamma Ray (GAPI)	150
6	Caliper (in)	16



30	CNPOR (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)