



Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-109-21,376-00-00

Company **Black Tea Oil, LLC.**

Well **Krebs Z No. 1**

Field **Logan**

County **Logan** State **Kansas**

Location **1635' FNL & 340' FEEL**

Sec: **3** Twp: **15S** Rge: **32W**

Other Services
DIL
MEL/BHCS

Elevation

K.B. 2733
D.F. G.I.L. 2724

Elevation 2724
9 Ft. Above Perm. Datum

Permanent Datum Ground Level Kelly Bushing
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Date 12/1/2014

Run Number One

Type Log CNL / CDL

Depth Driller 4510

Depth Logger 4508

Bottom Logged Interval 4487

Top Logged Interval 3000

Type Fluid In Hole Chemical

Salinity, PPM CL 6000

Density 9.0

Level Full

Max. Rec. Temp. F 121

Operating Rig Time 5 Hours

Equipment -- Location 108 Hays

Recorded By D. Fischer

Witnessed By Richard Thomasson

Borehole 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

Casing Record

Run No Bit From To

One 12.25 00 264

Two 7.875 264

<<< 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

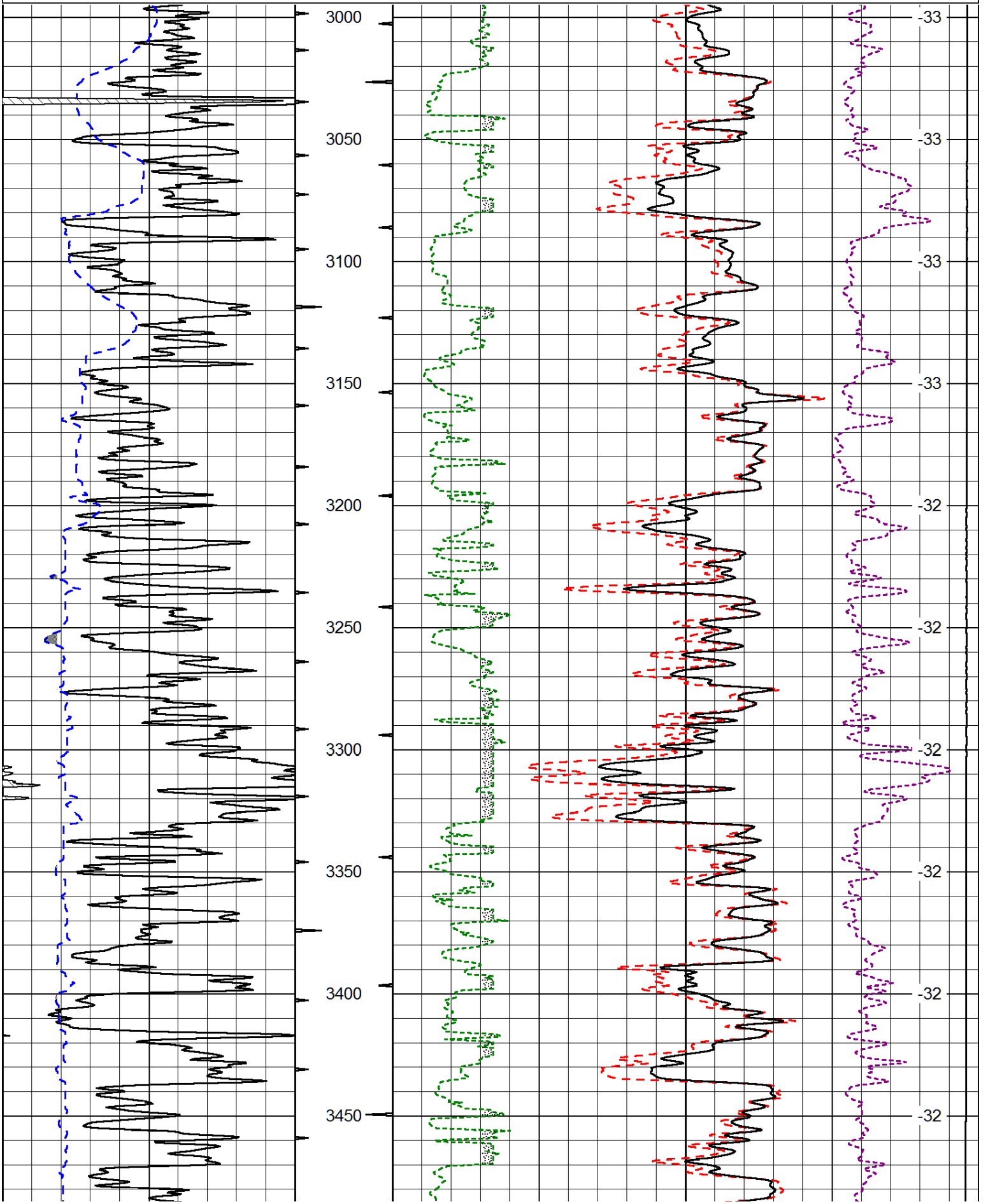
Thank you for using Log-Tech, Inc.
(785) 625-3858

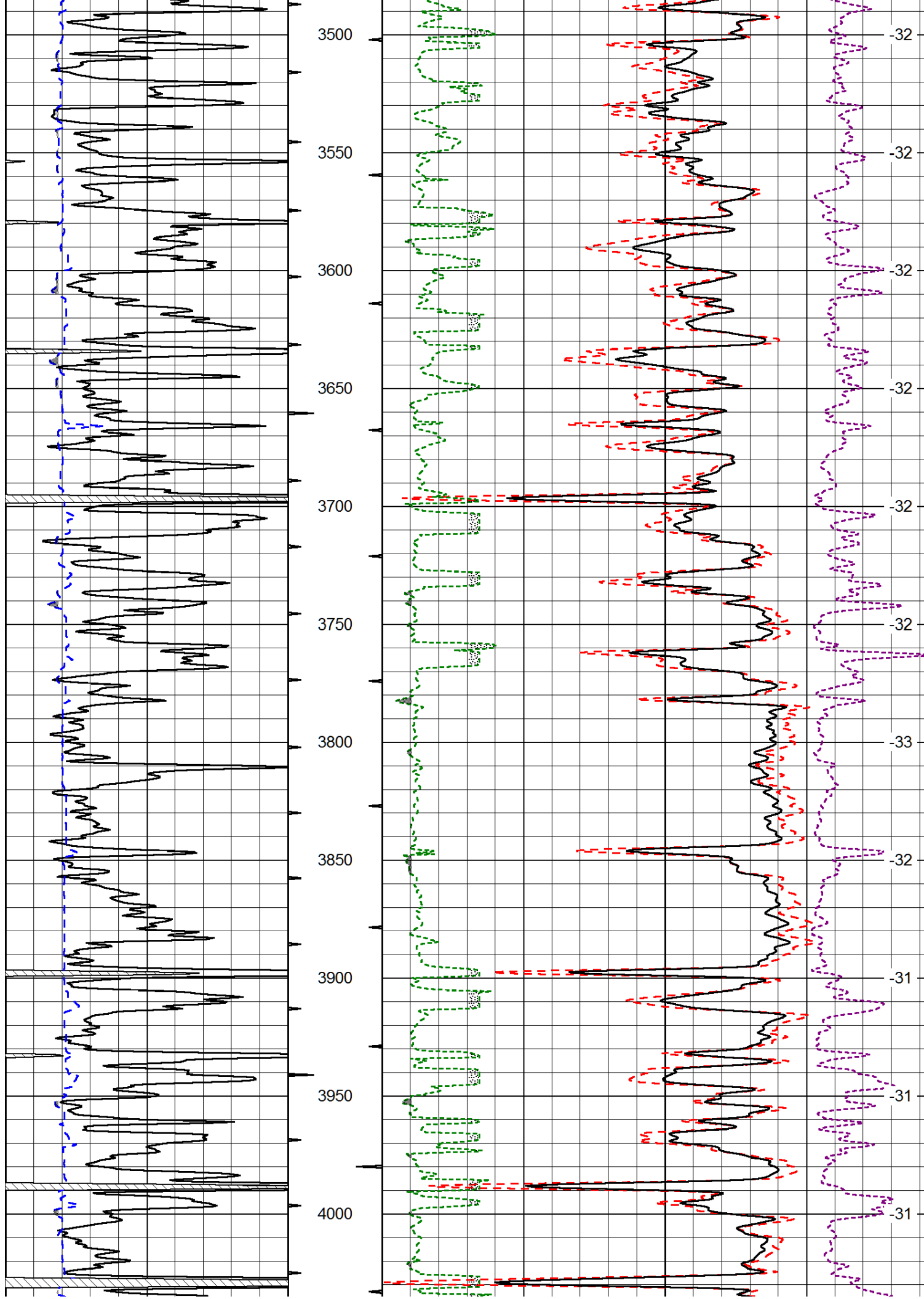
Oakley Ks., 23 South to Gold Rd., East Into.

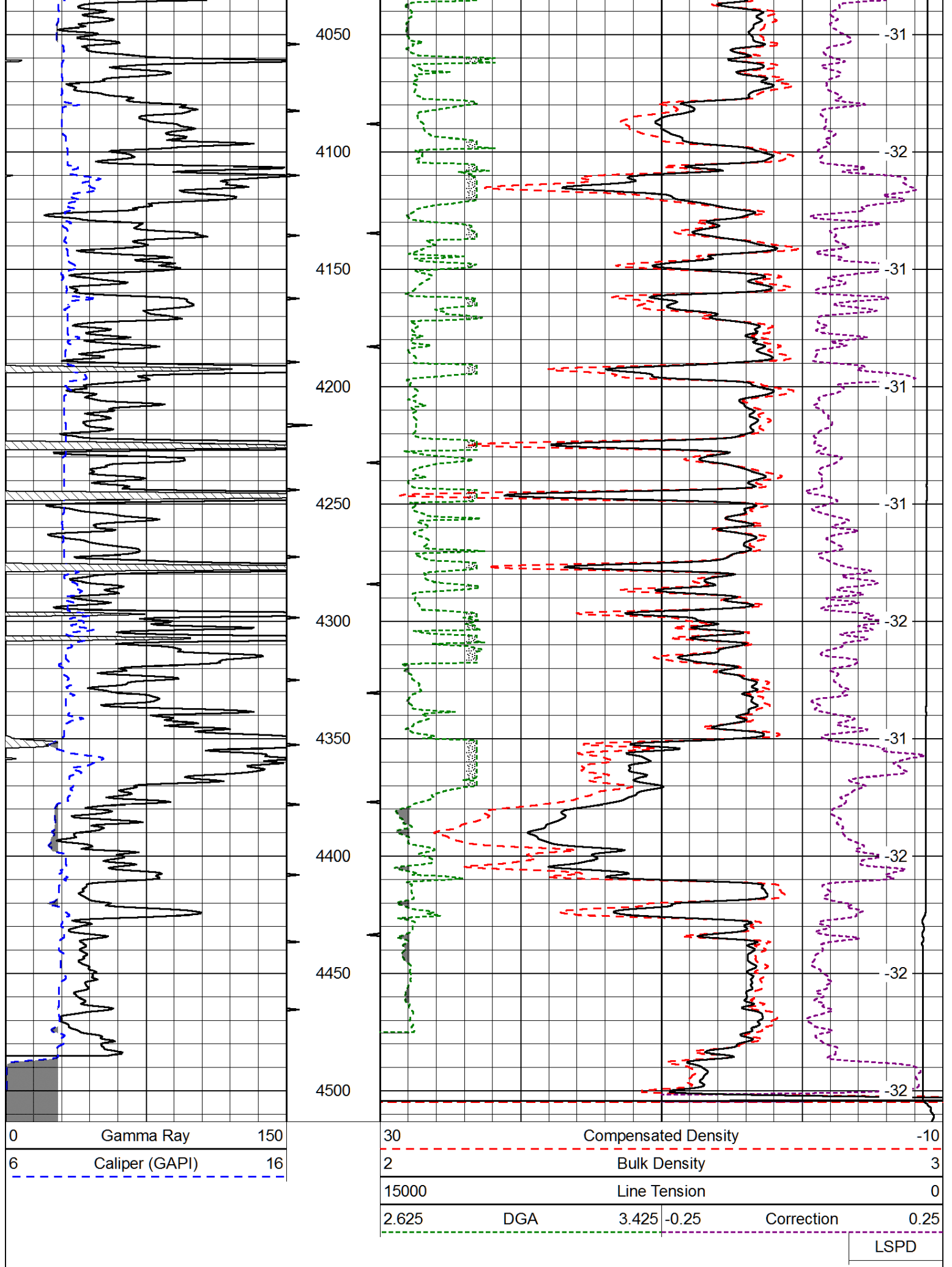
Database File: black_tea_krebs_z_1hd.db
Dataset Pathname: DIL/btstck
Presentation Format: cdl
Dataset Creation: Mon Dec 01 12:47:10 2014
Charted by: Depth in Feet scaled 1:600

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			





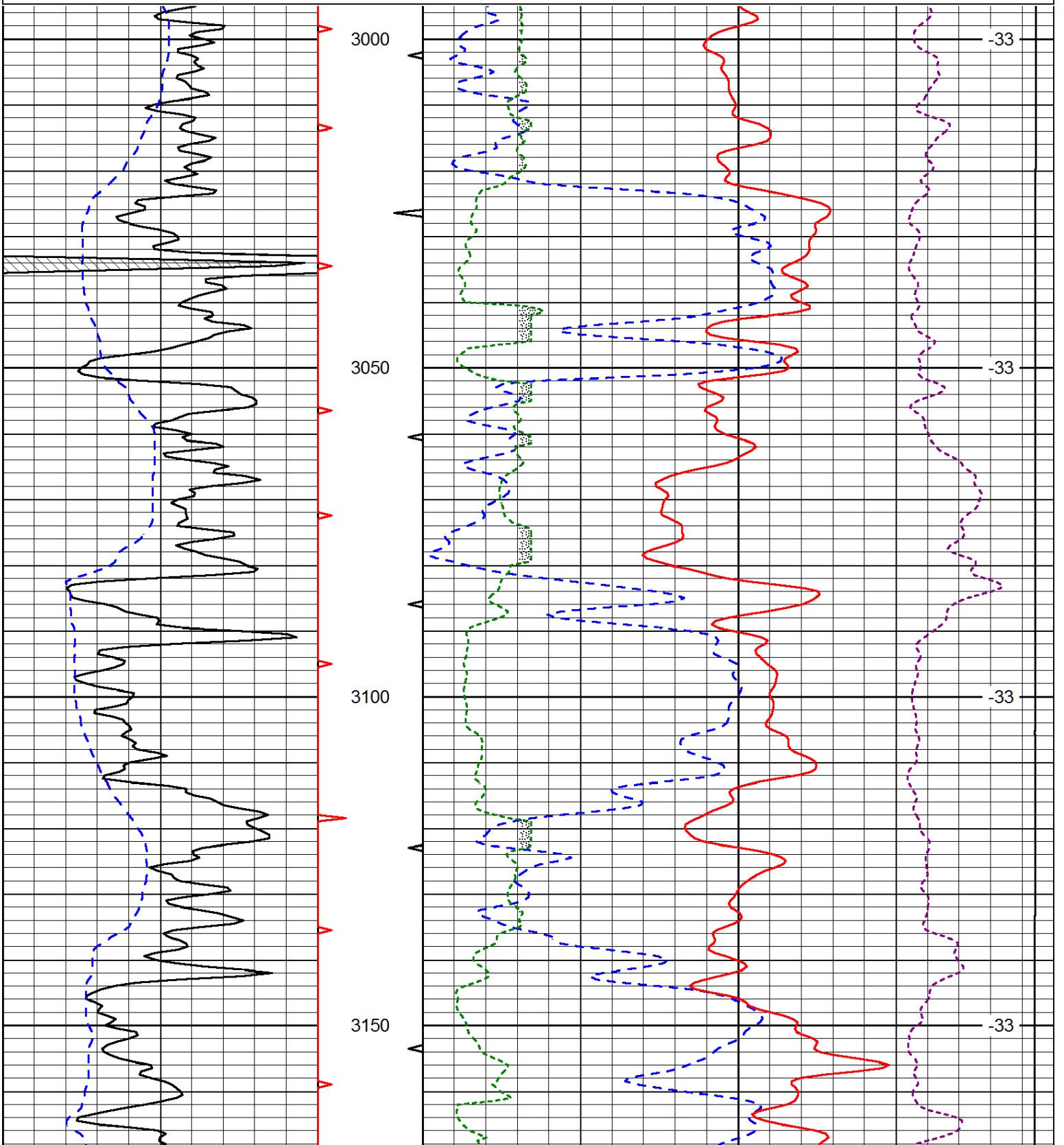


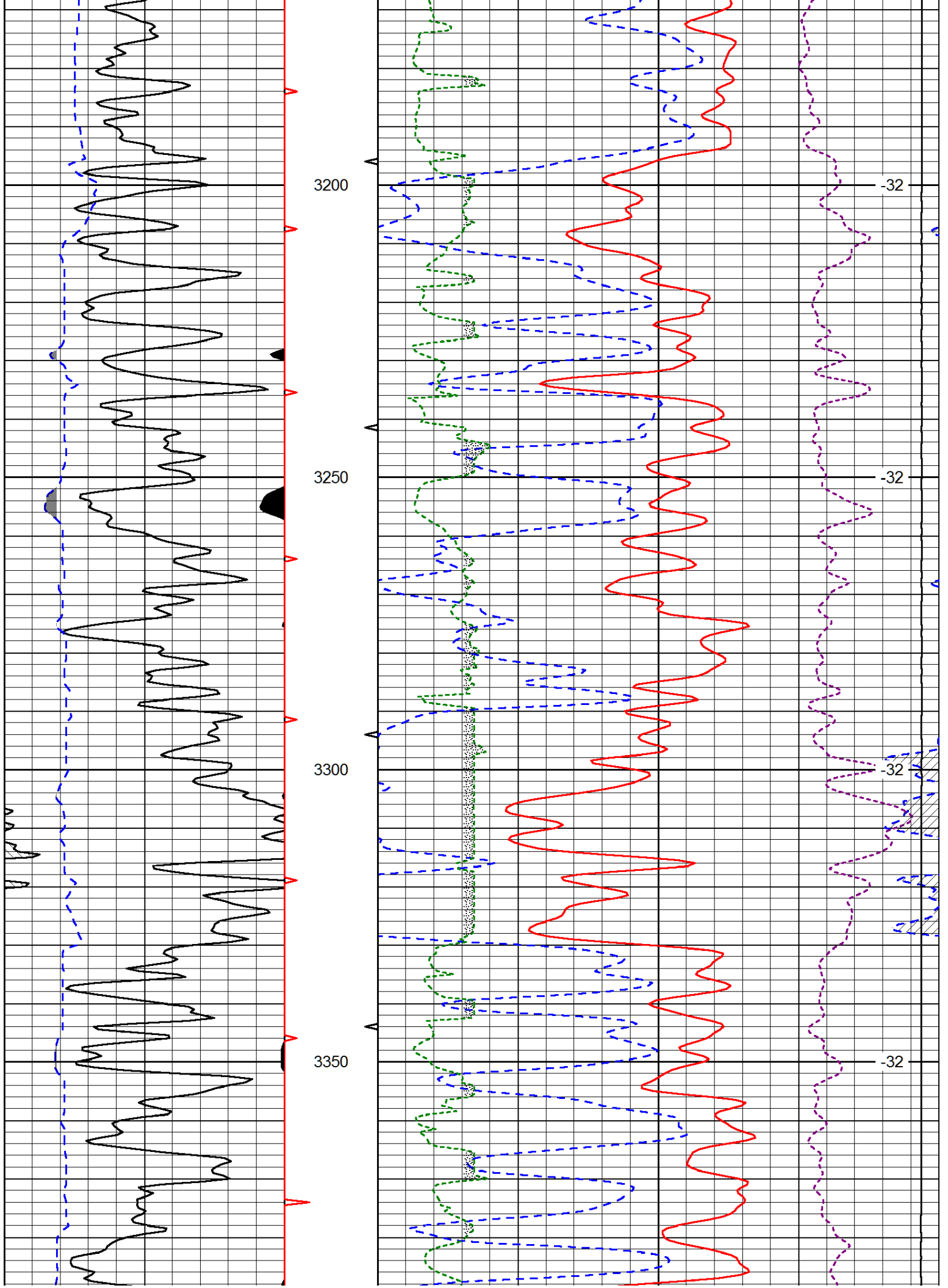
Database File: black_tea_krebs_z_1hd.db
 Dataset Pathname: DIL/btstck
 Presentation Format: cndlspec
 Dataset Creation: Mon Dec 01 12:47:10 2014
 Charted by: Depth in Feet scaled 1:240

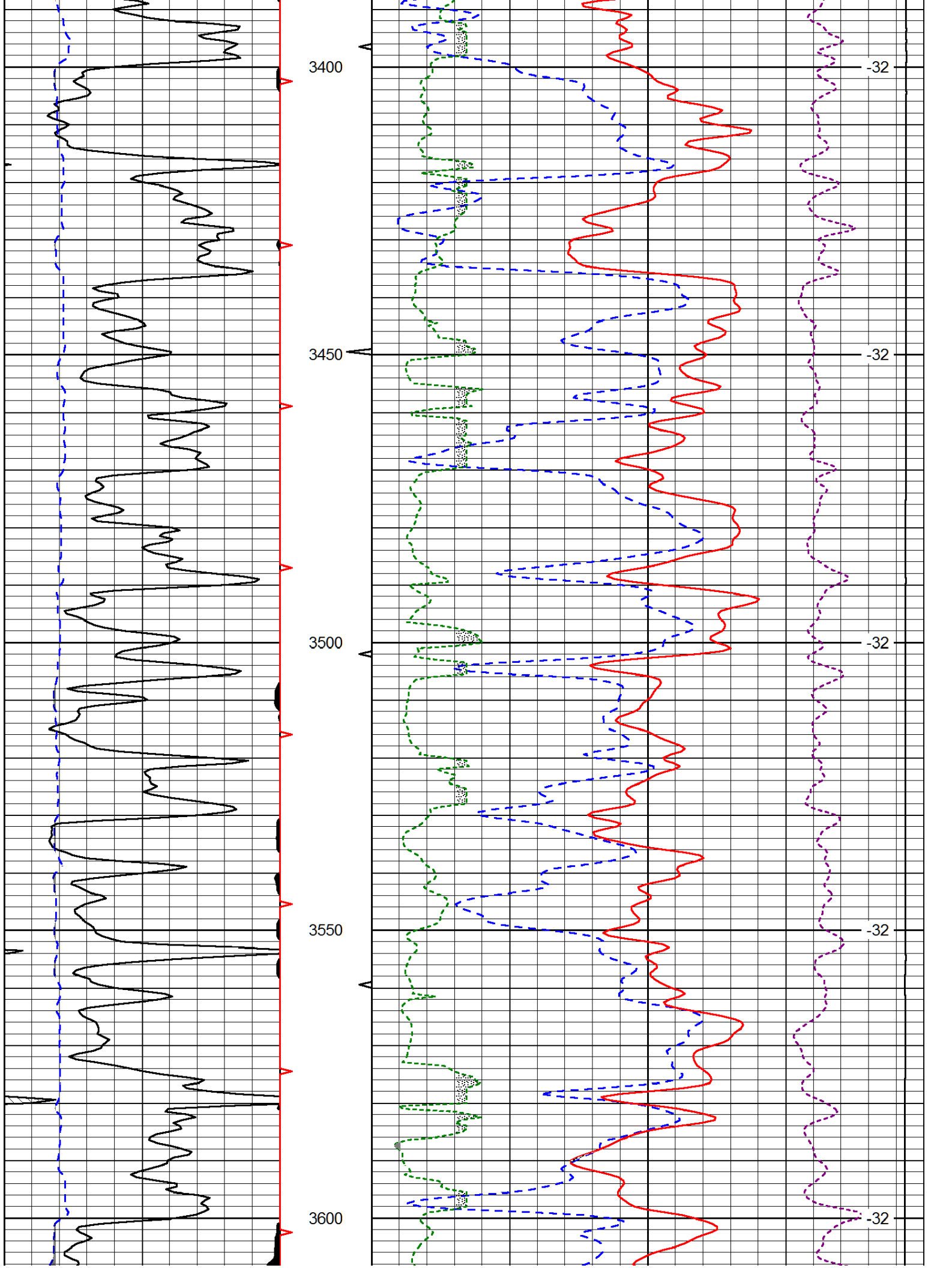
0	Gamma Ray	150
6	Caliper (GAPI)	16

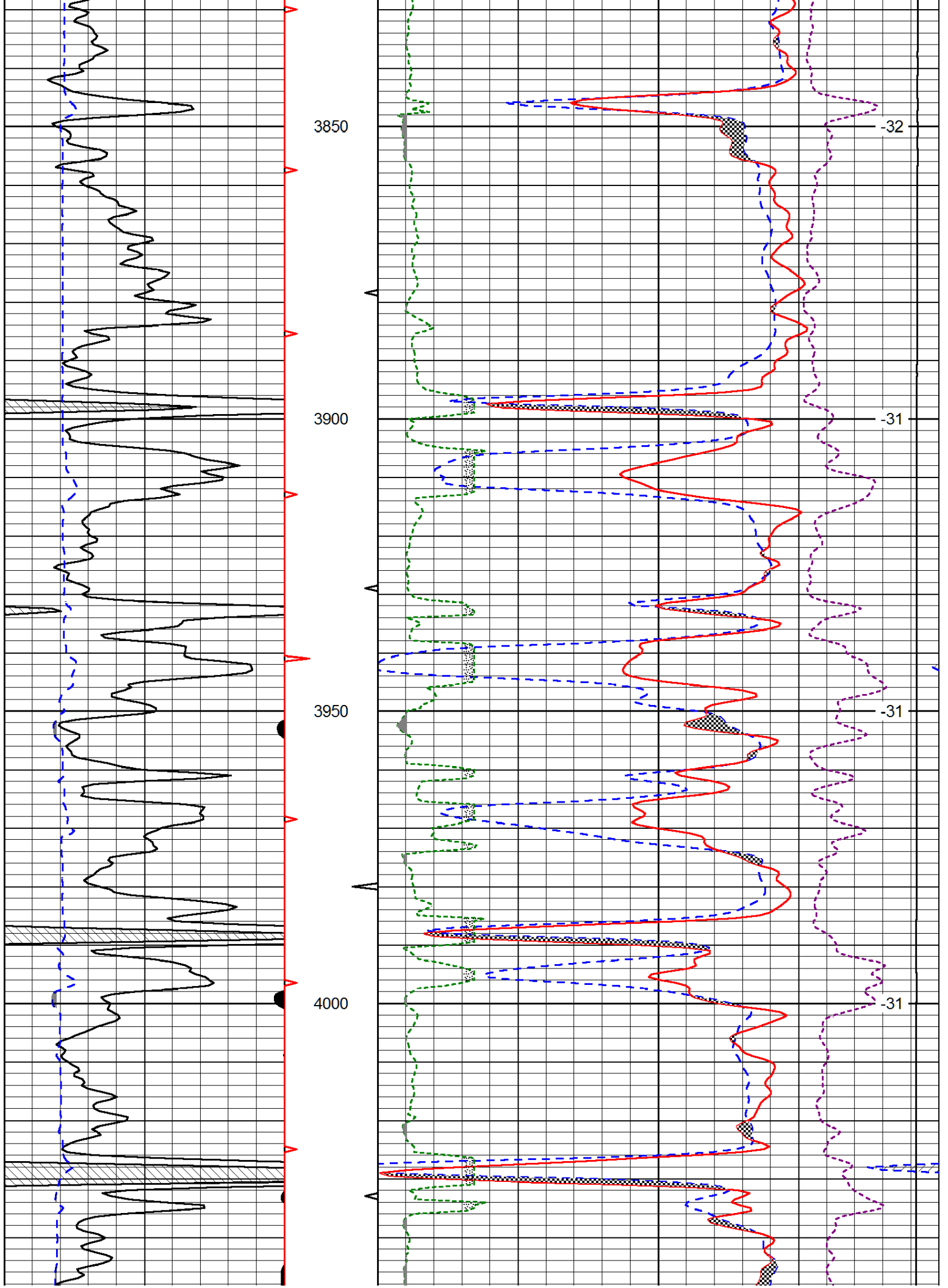
30	CNLS			-10	
30	Compensated Density (2.71 ma)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension			0	

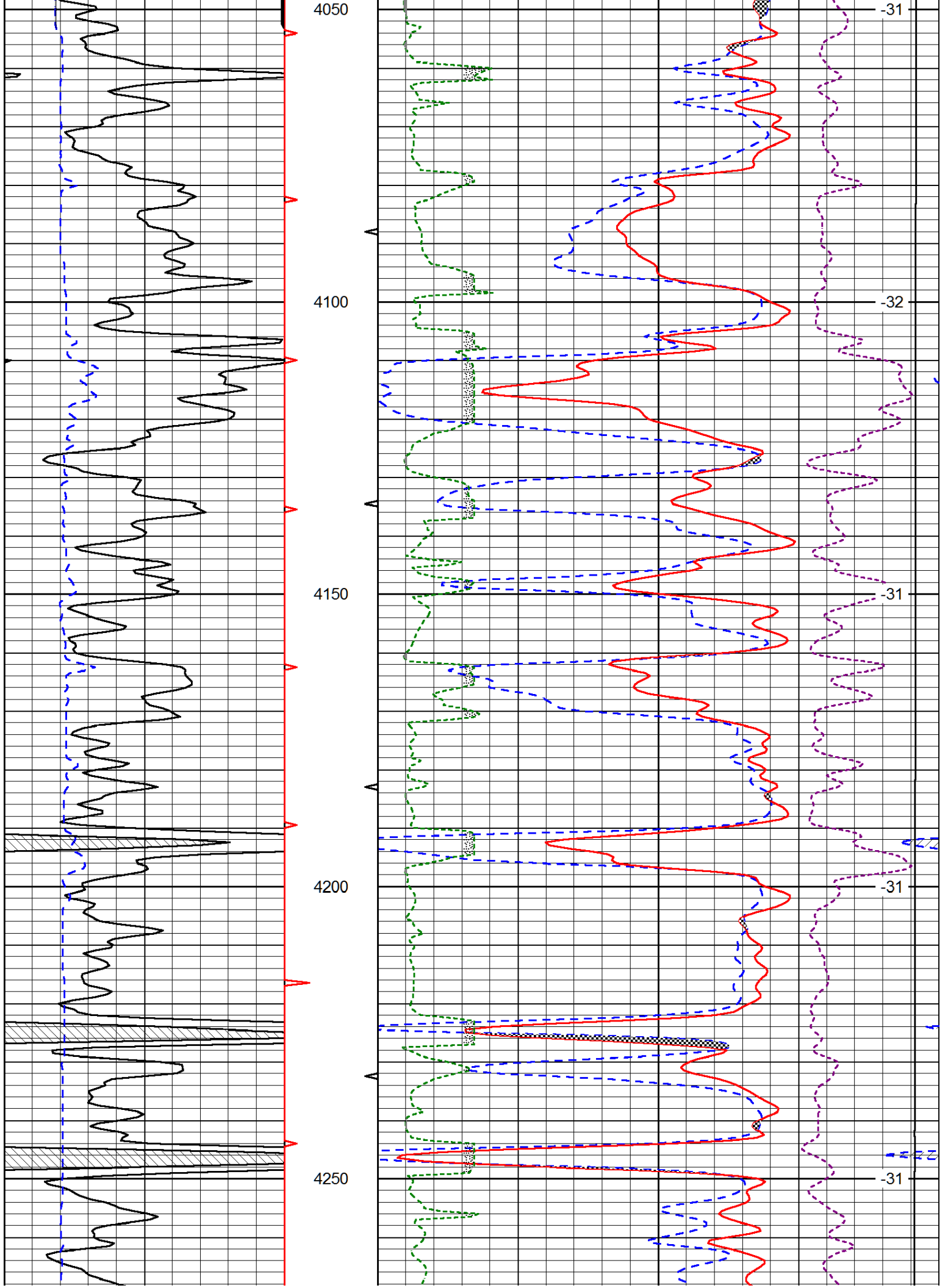
LSPD

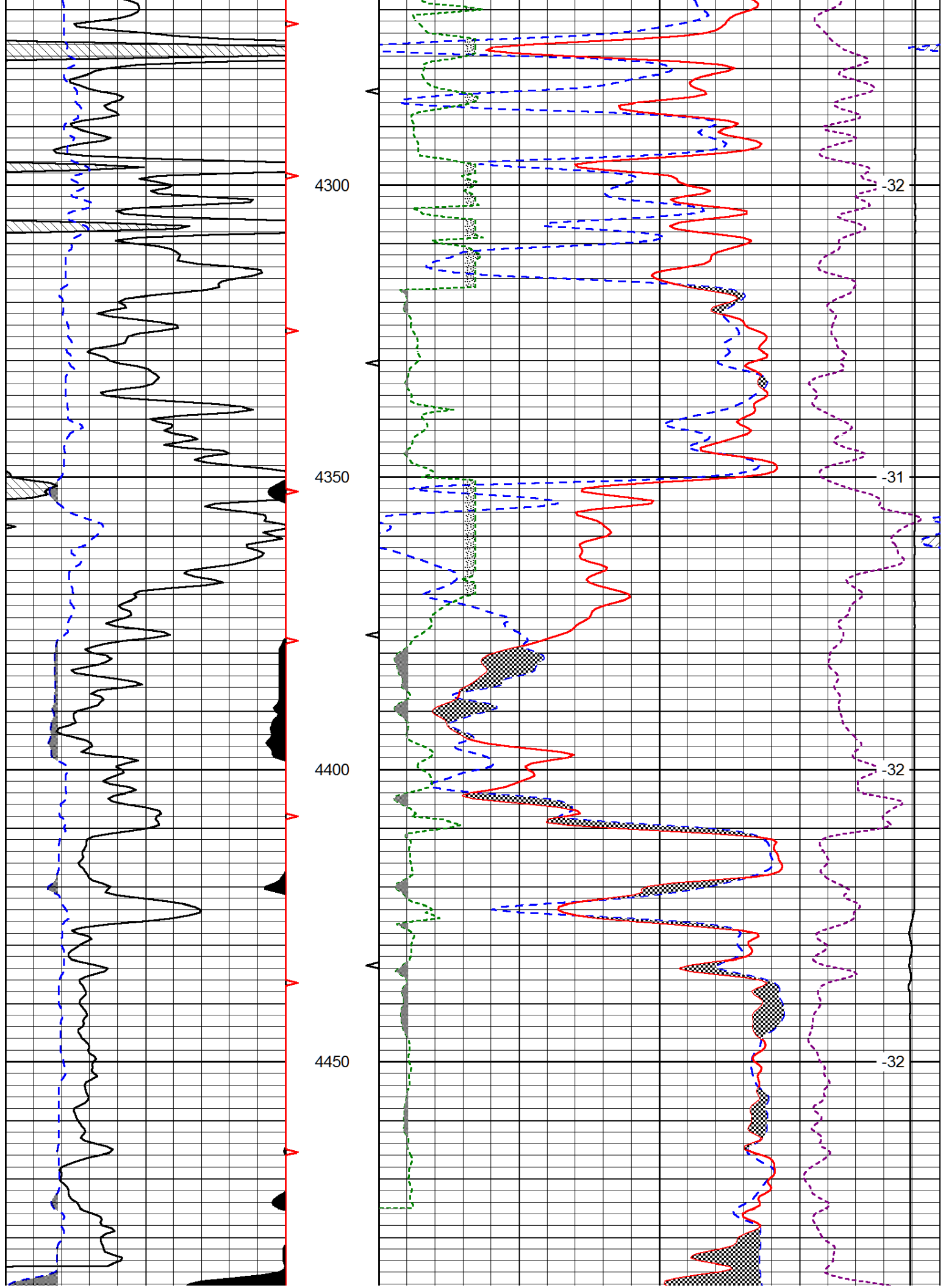






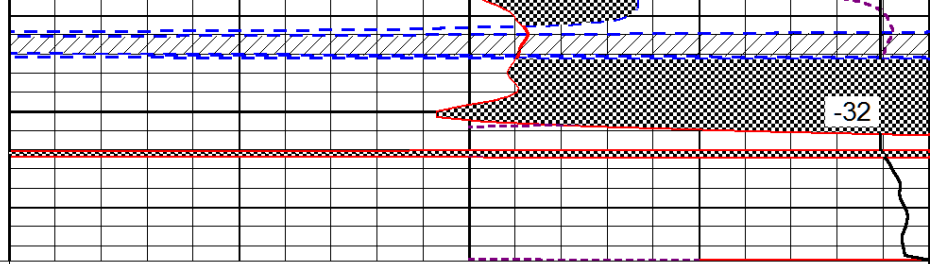








4500



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