



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-189-22811-00-00

Company **Palmer Oil, Inc.**

Well **Laura #21-2**

Field **Gentzler North**

County **Stevens**

State **Kansas**

Location

**E2 E2 SW SE
660' FSL / 1600' FEL**

Other Services
DIL/MEL

Sec: **21**

Twp: **32S**

Rge: **37W**

Elevation

Permanent Datum **Ground Level** Elevation **3136**
Log Measured From **Kelly Bushing** 12 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Date

Run Number

Type Log

Depth Driller

Depth Logger

Bottom Logged Interval

Top Logged Interval

Type Fluid In Hole

Salinity, PPM CL

Density

Level

Max. Rec. Temp. F

Operating Rig Time

Equipment -- Location

Recorded By

Witnessed By

9/15/2013

One

CNL / CDL

6550

6538

6517

4100

Chemical

4600

9.3

Full

142

6 Hours

17 Days

R. Barnhart

Wyatt Urban

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

23#

From

To

1768

8.625

00

1768

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

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(785) 625-3858

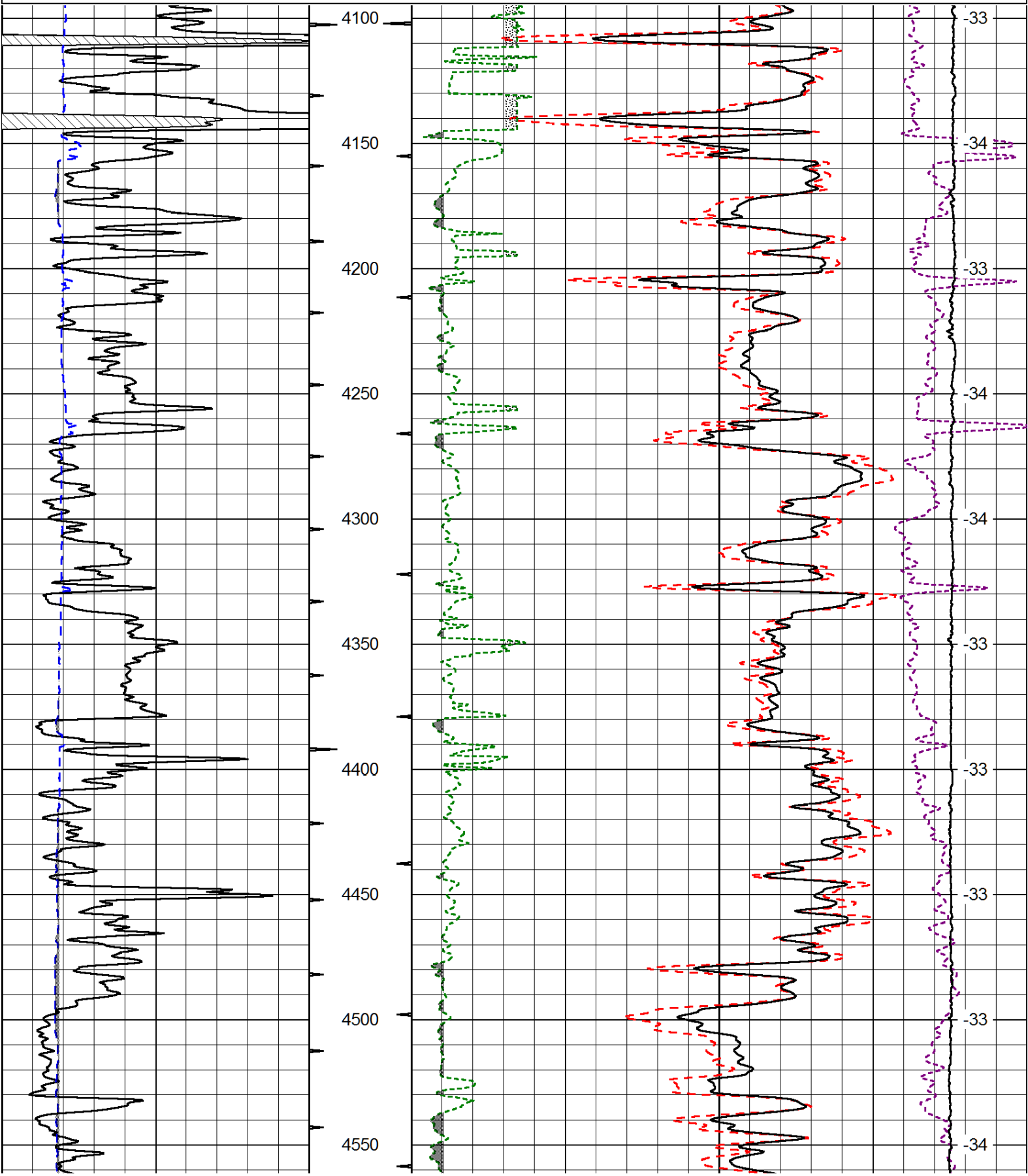
Hugoton, KS:
3N, 1/2W, N into

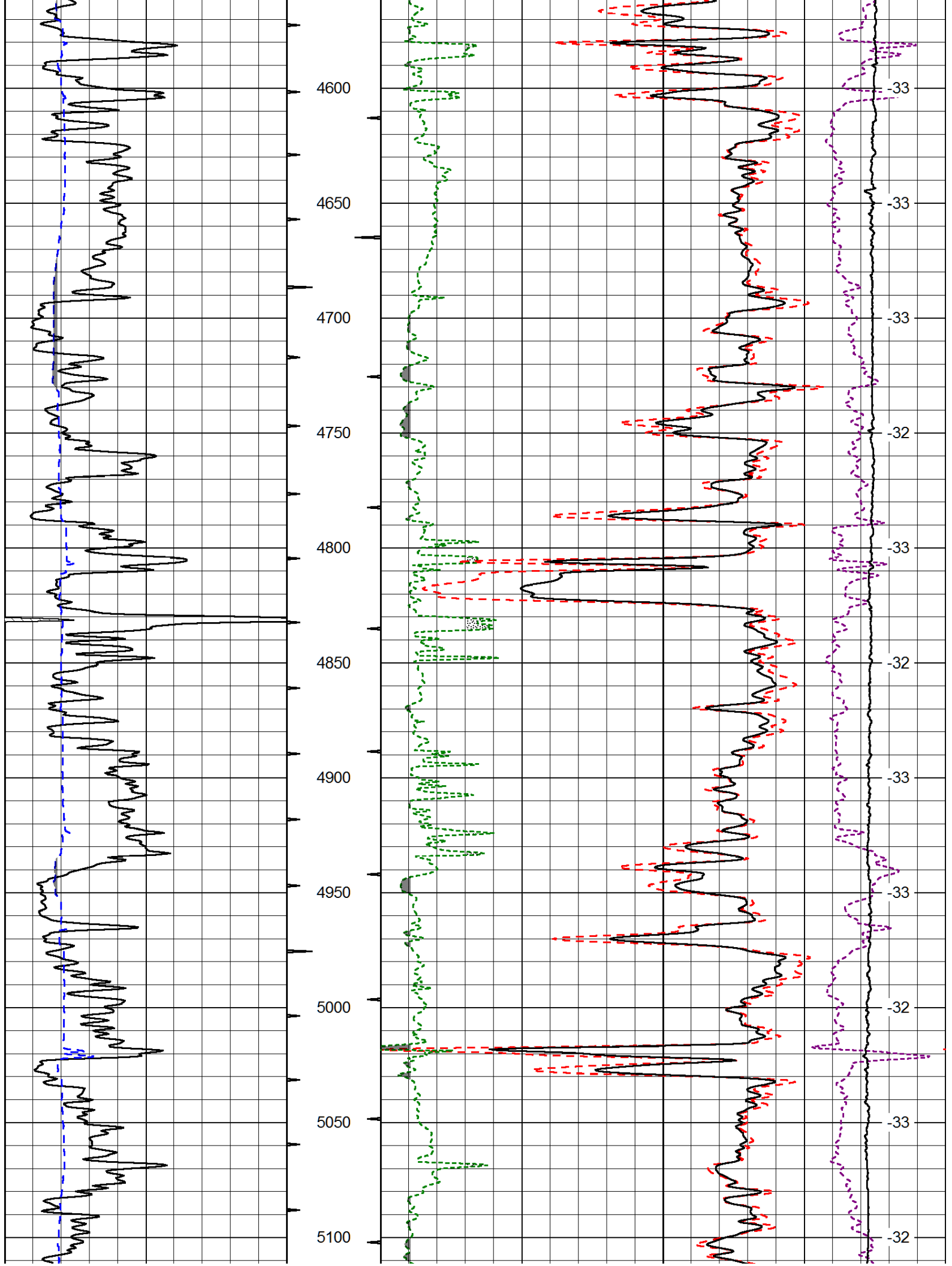
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Dataset Pathname: dil/palmain
Presentation Format: cdl
Dataset Creation: Sun Sep 15 10:43:18 2013
Charted by: Depth in Feet scaled 1:600

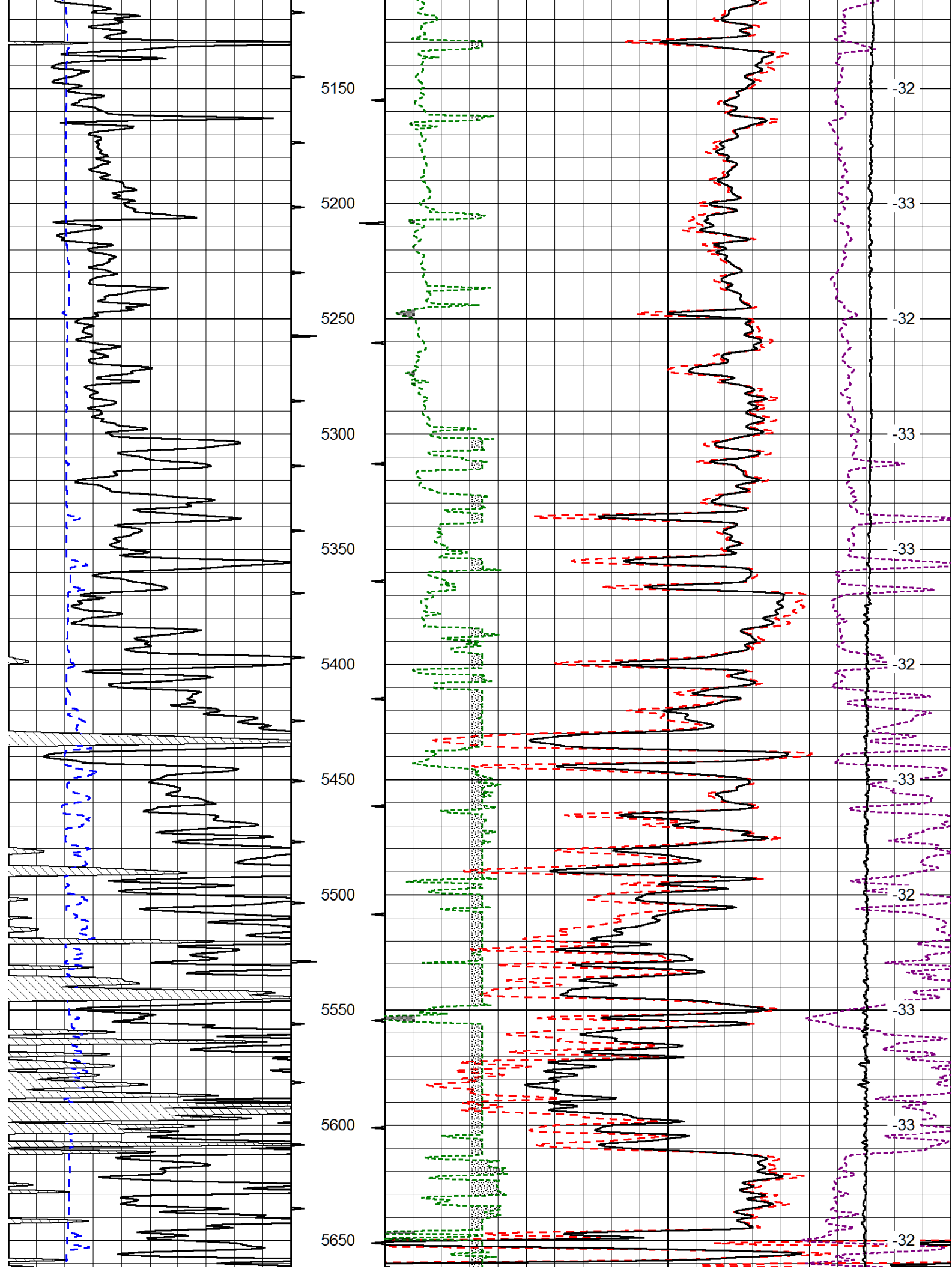
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

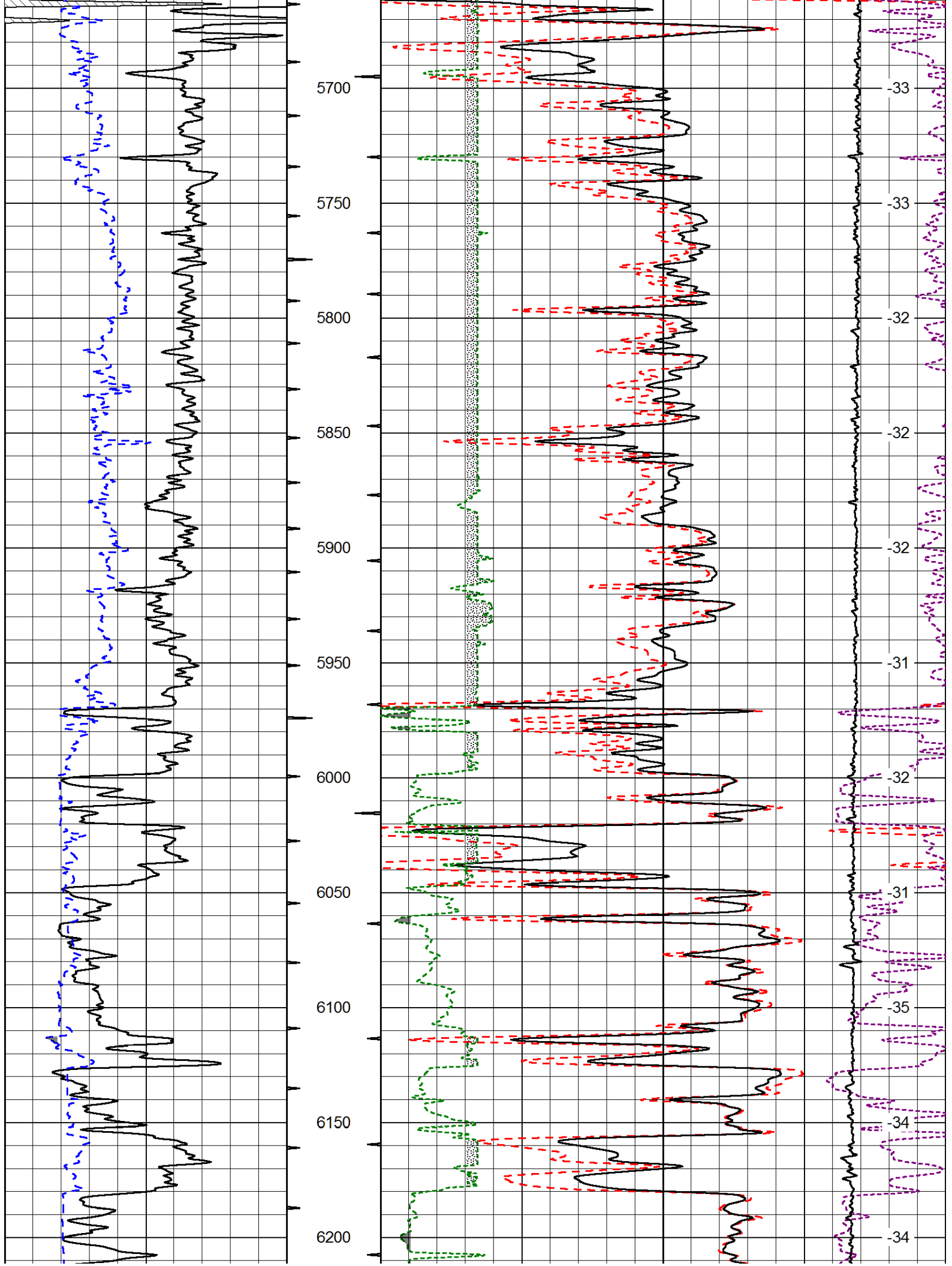
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25

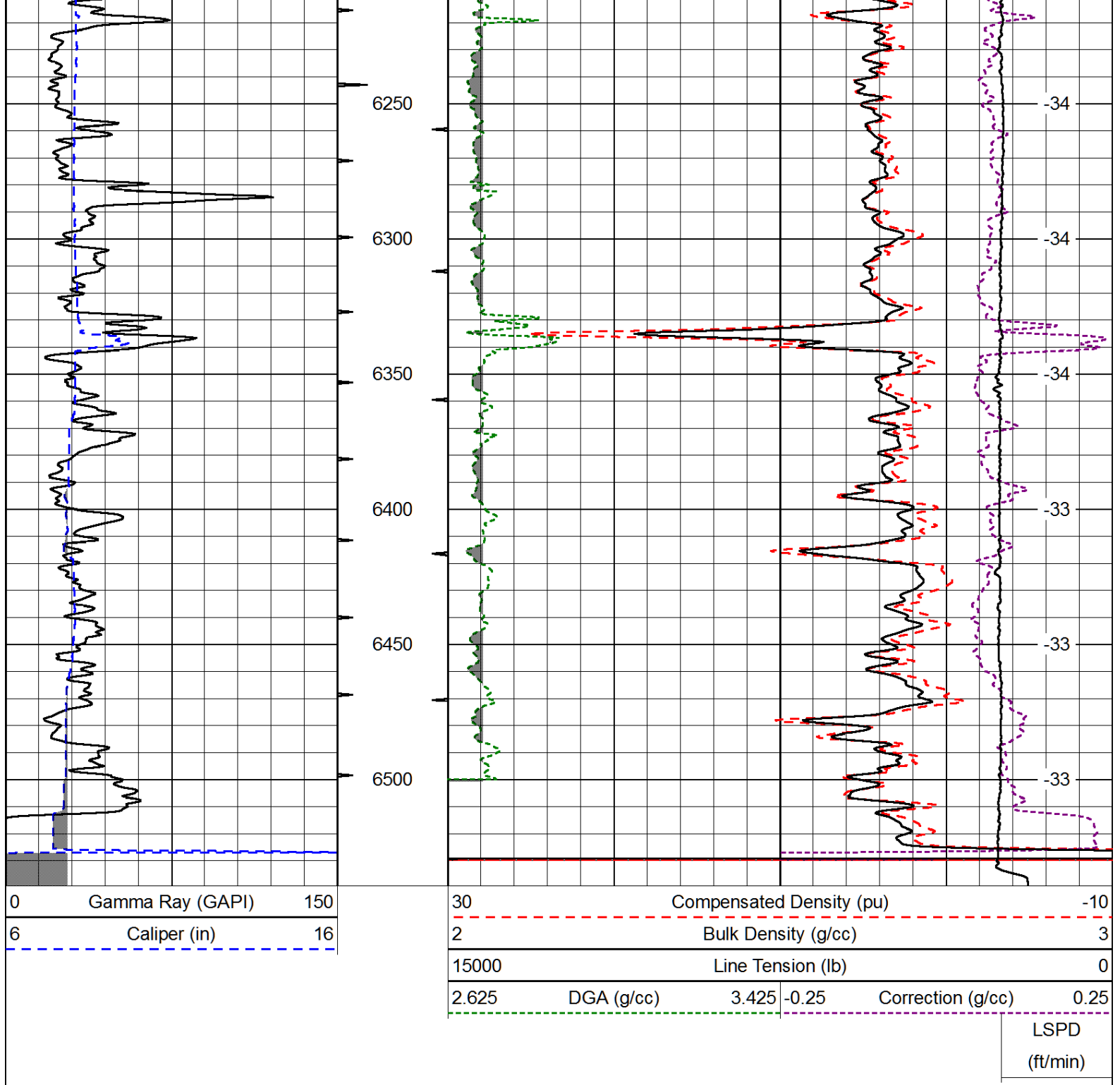
LSPD
(ft/min)



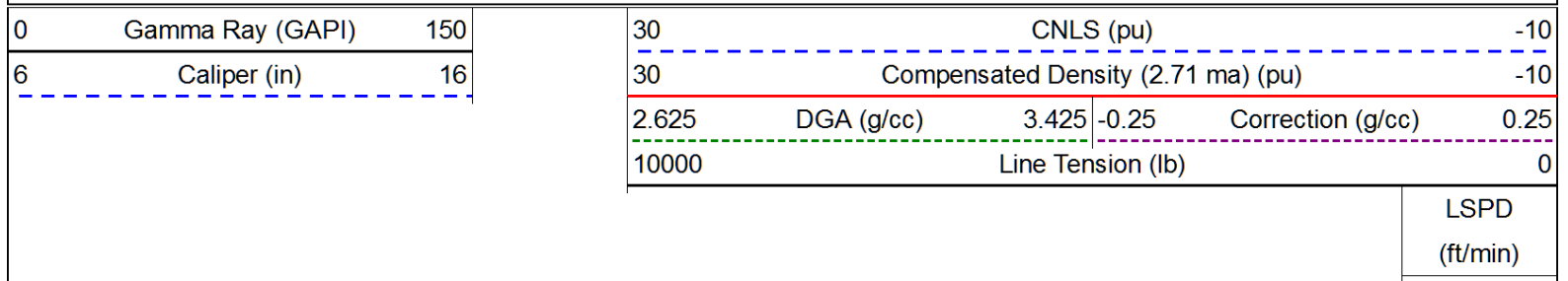


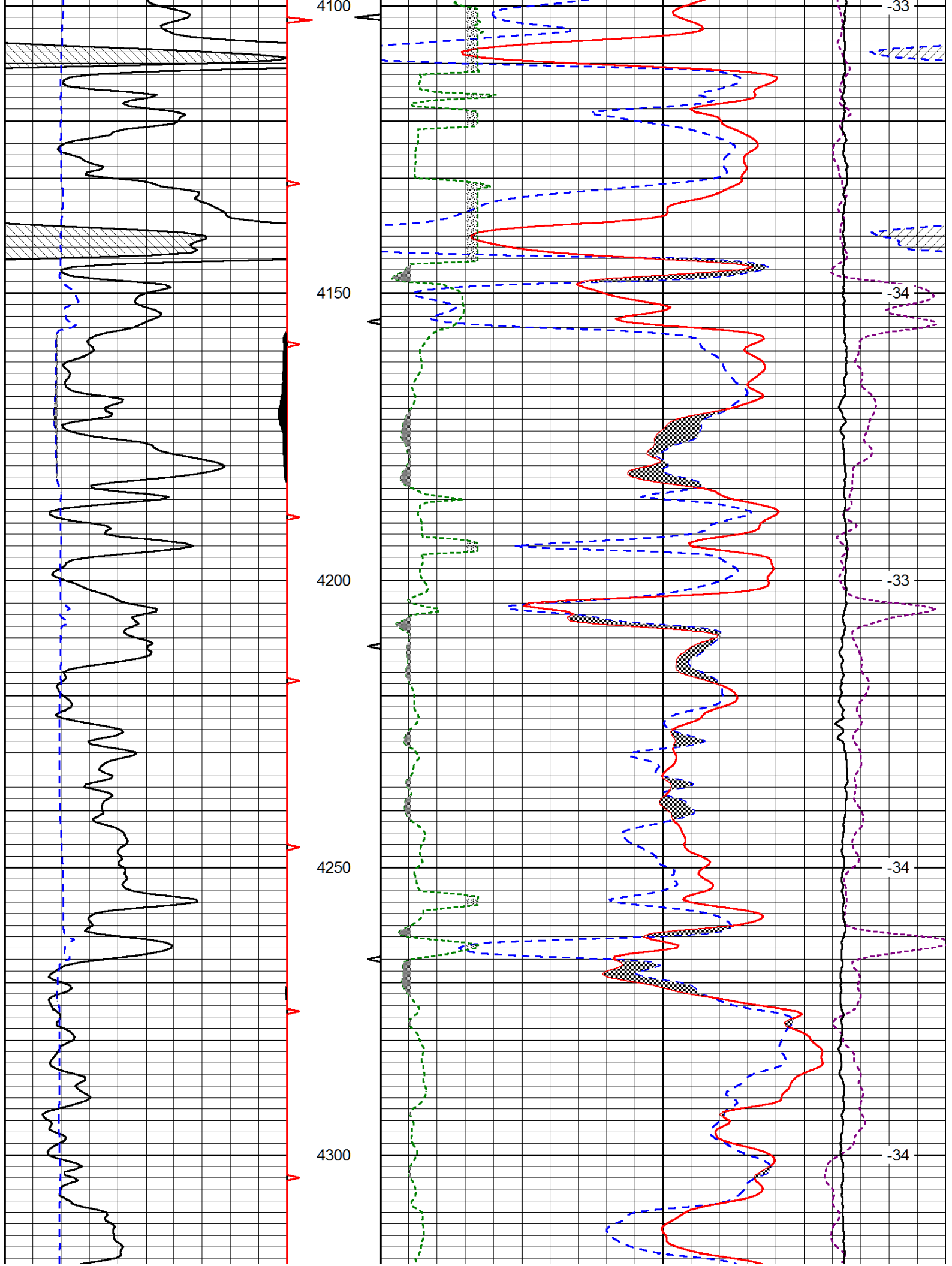


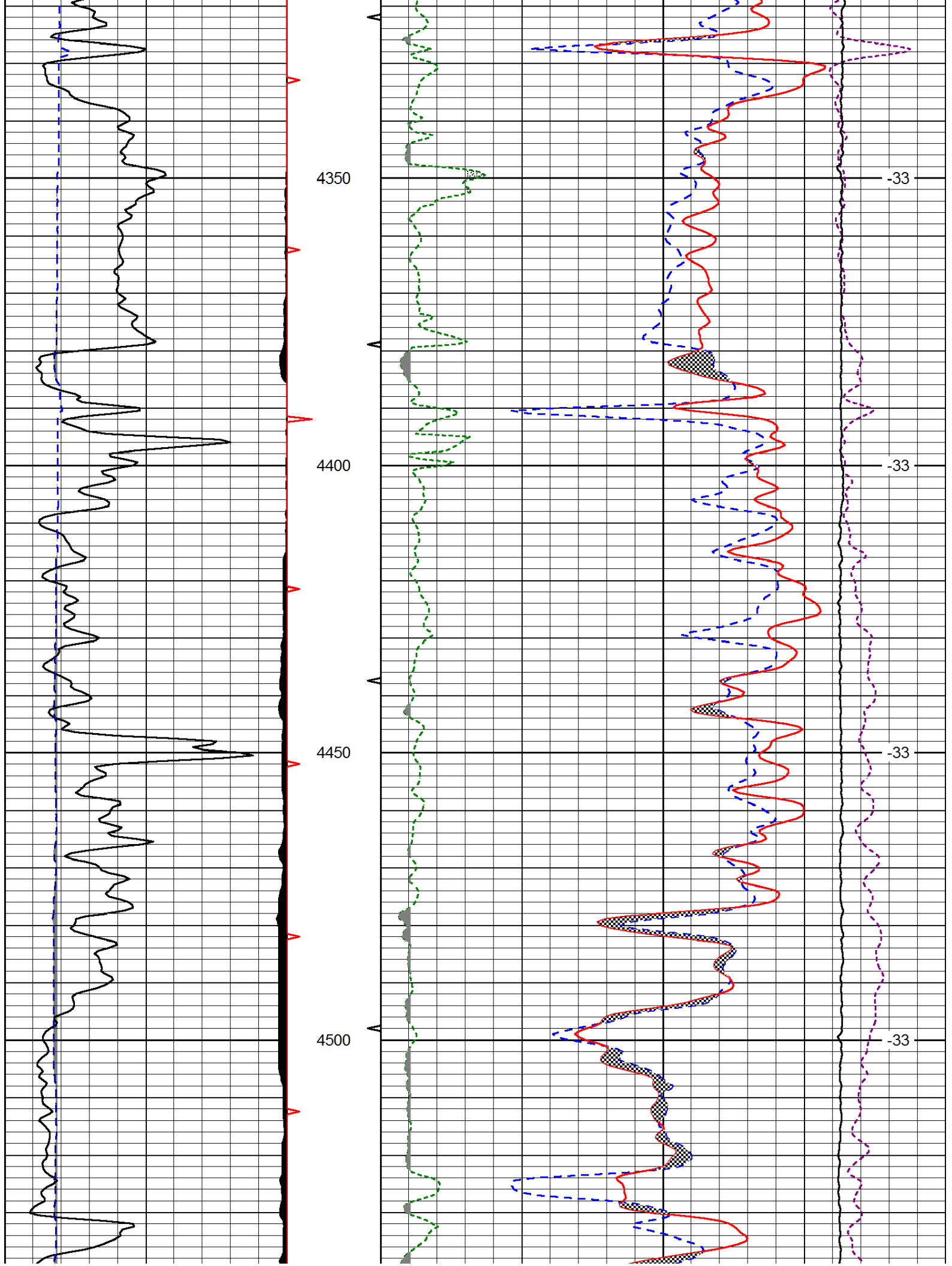


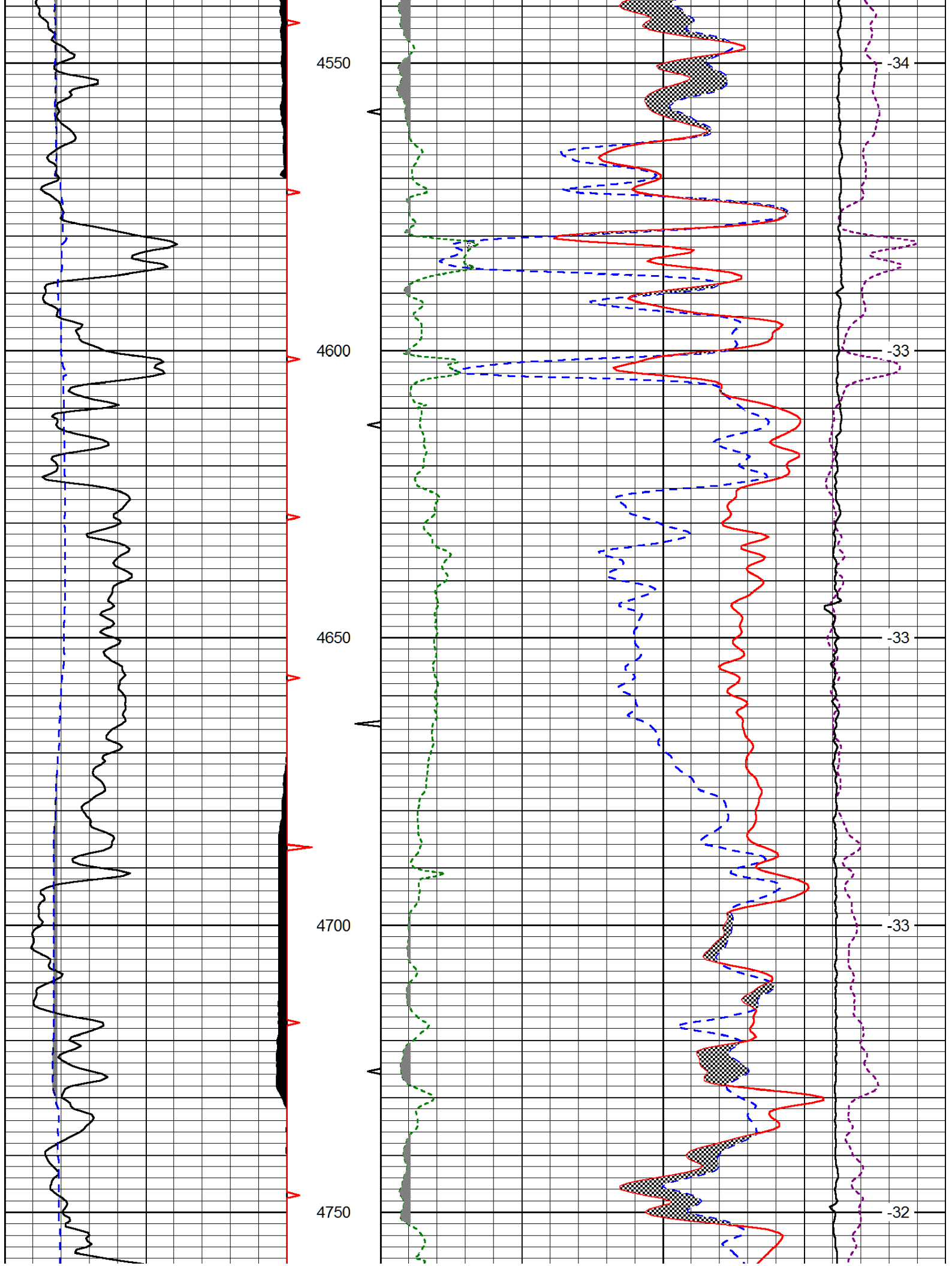


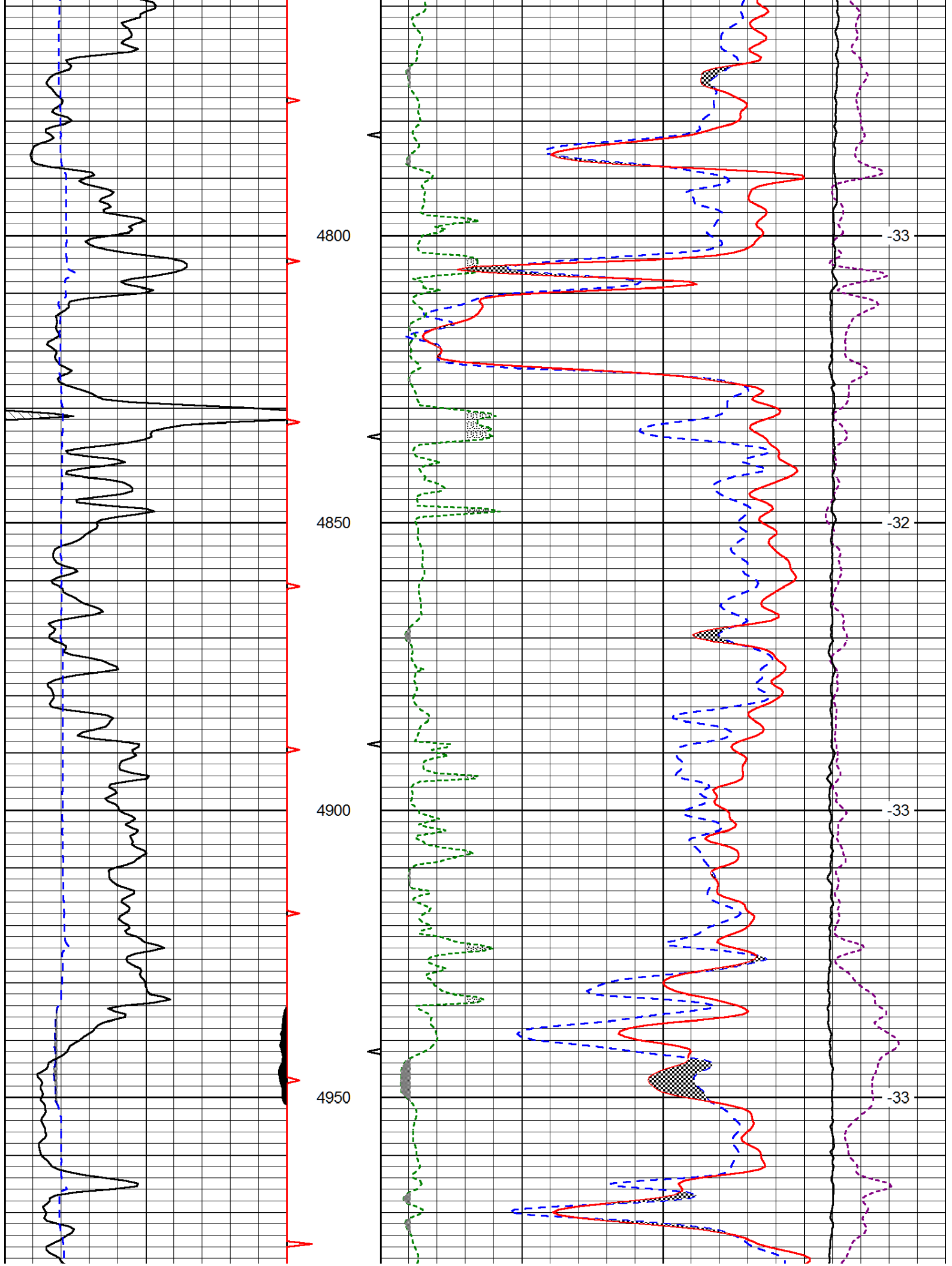
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 Dataset Pathname: dil/palmain
 Presentation Format: cndlspec
 Dataset Creation: Sun Sep 15 10:43:18 2013
 Charted by: Depth in Feet scaled 1:240

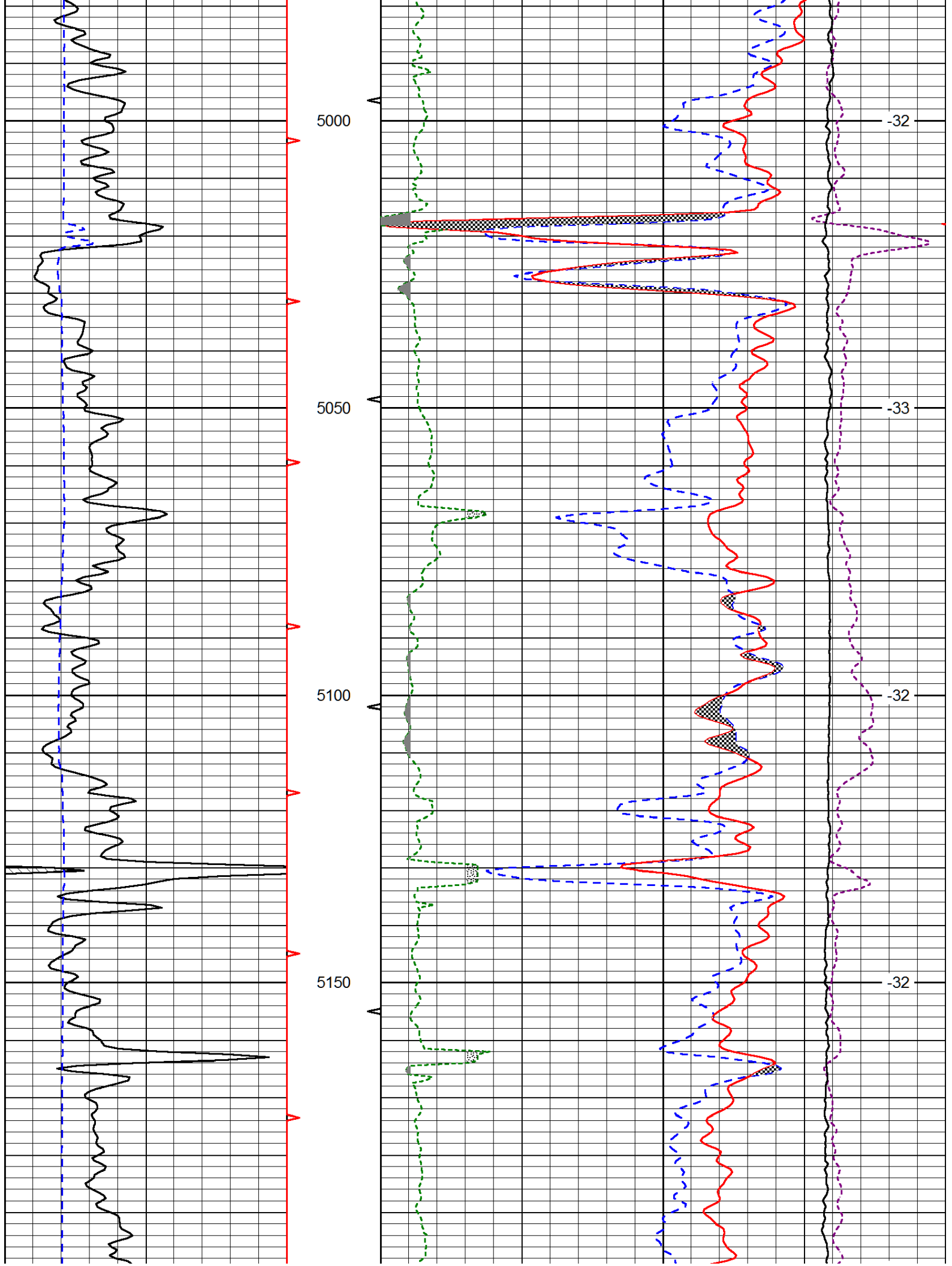


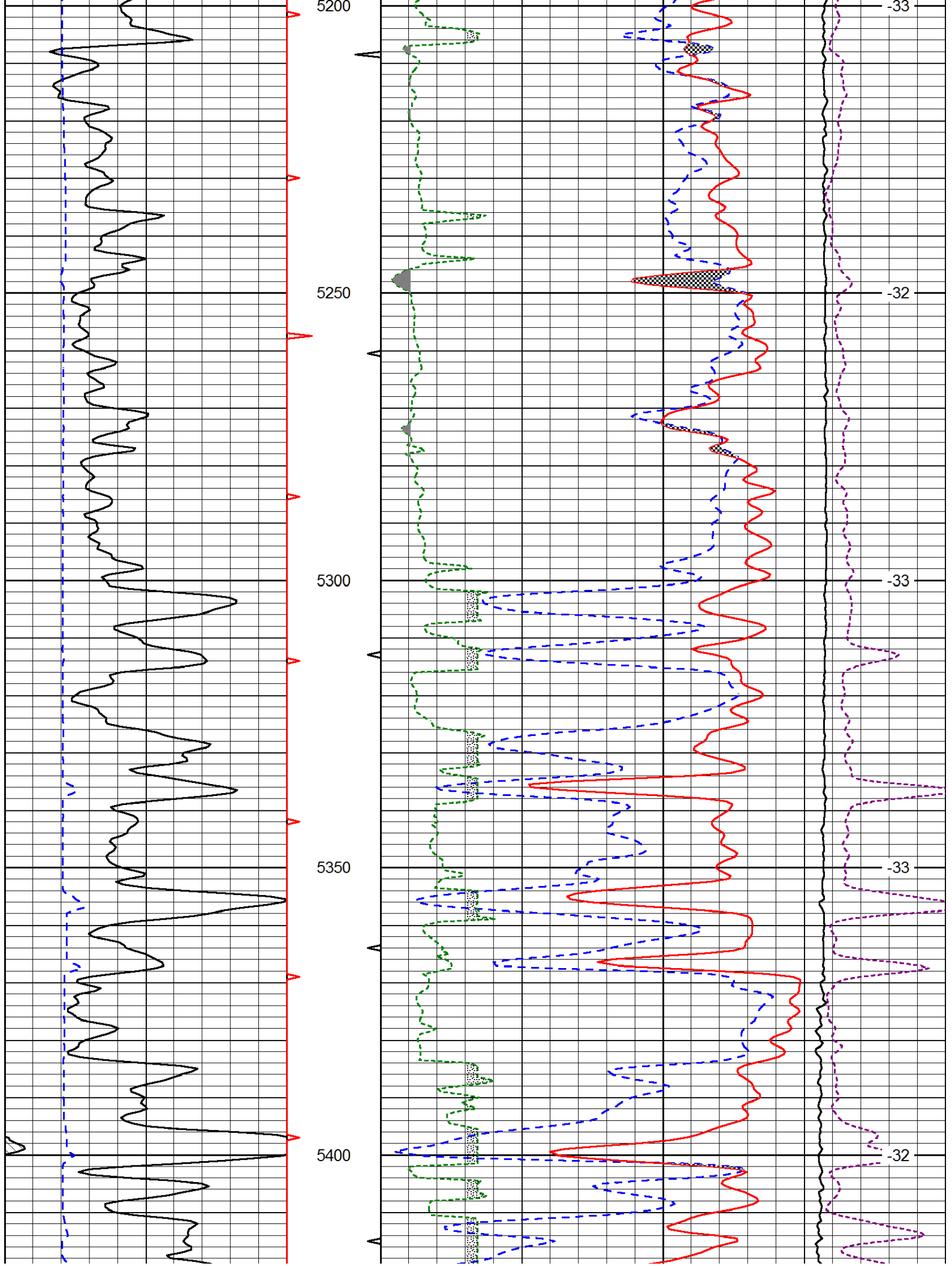


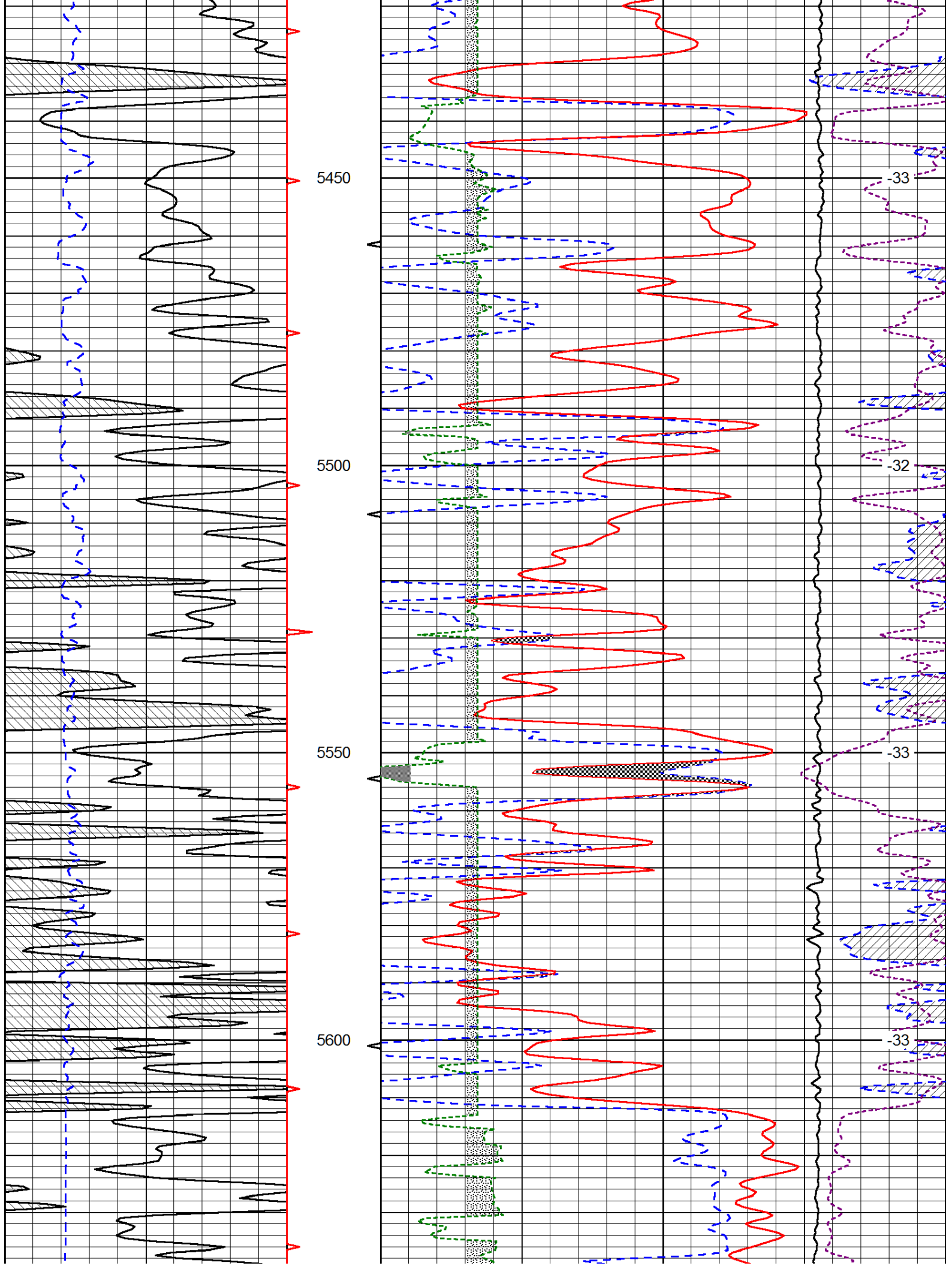


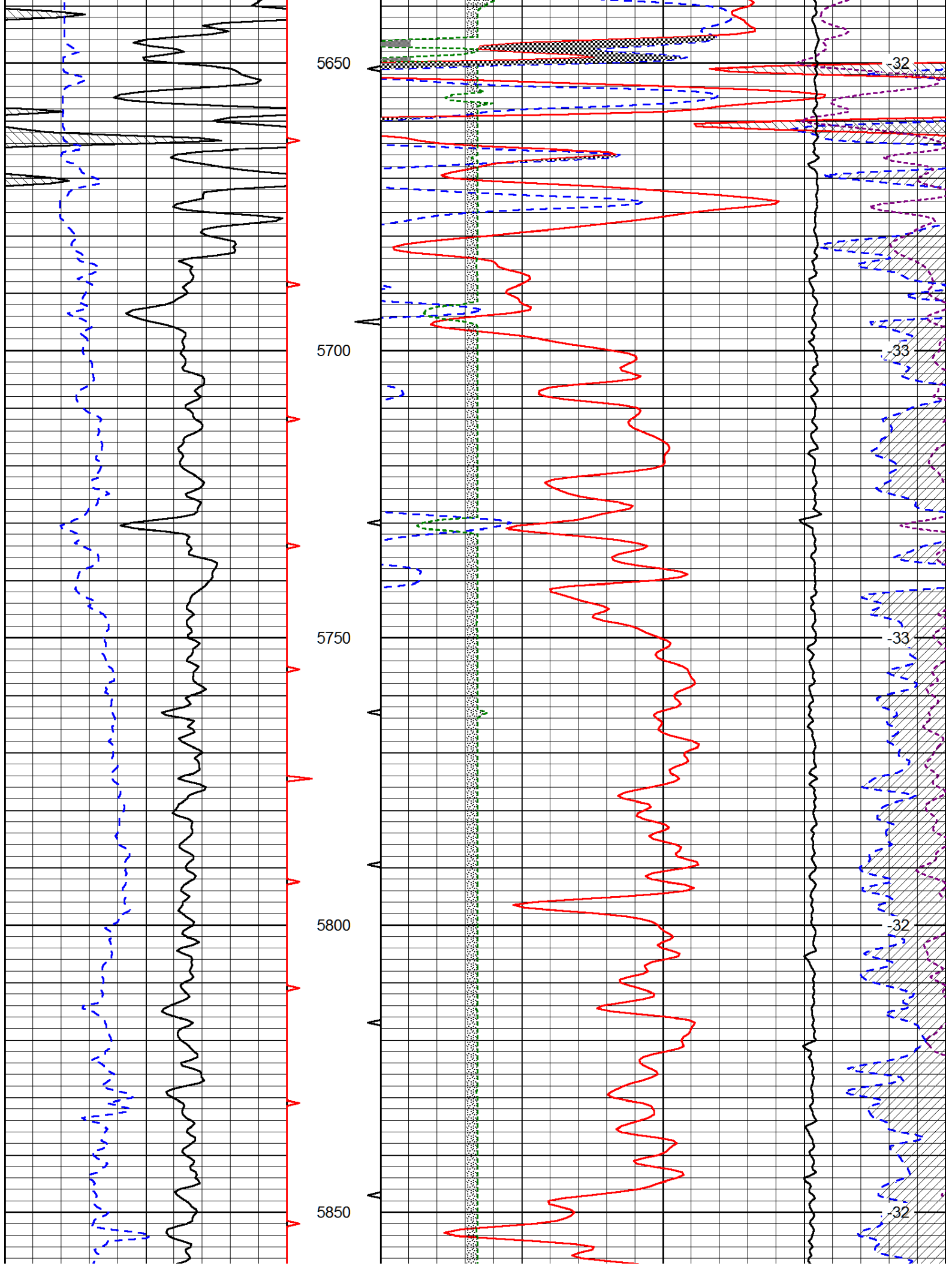


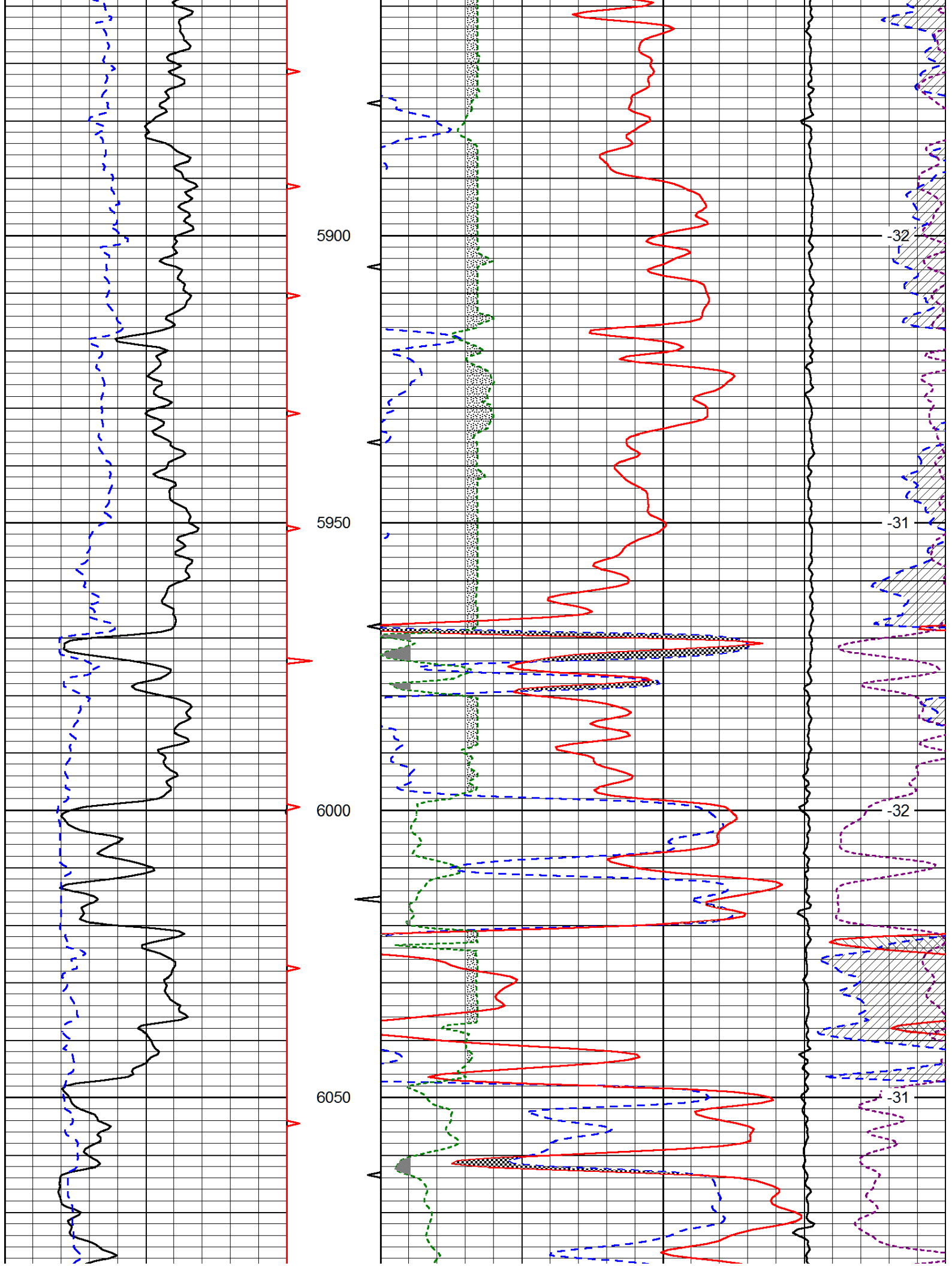


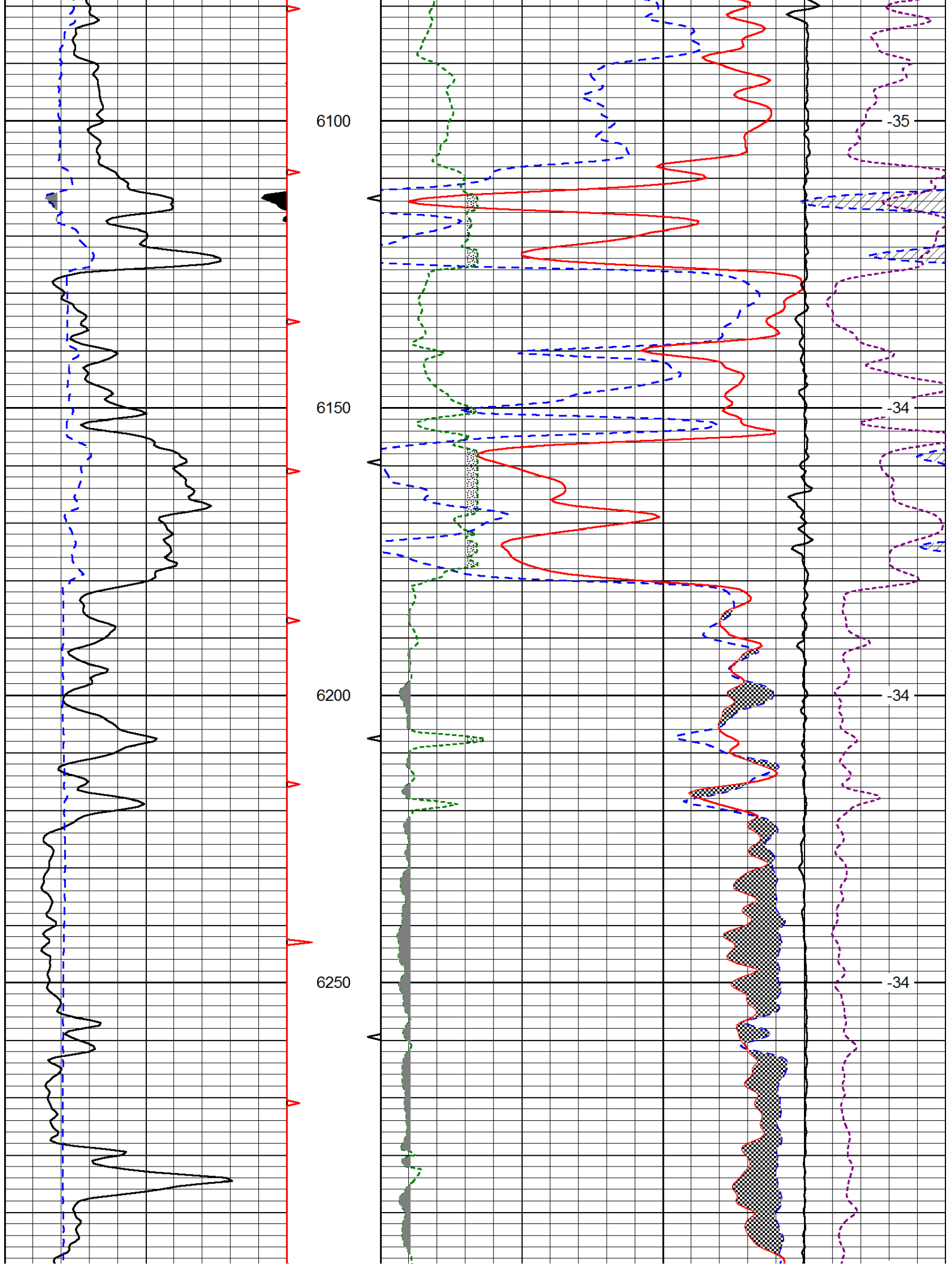


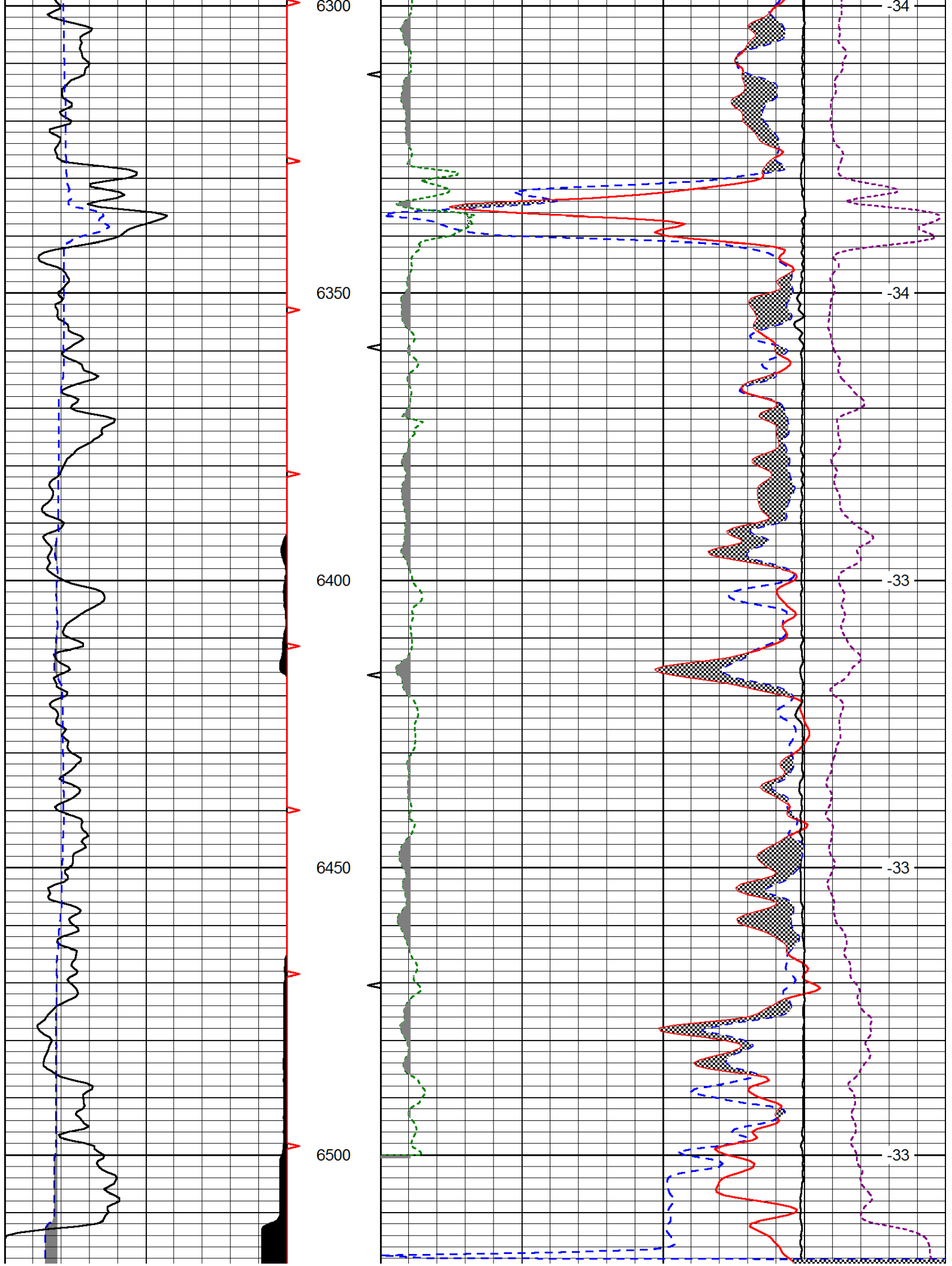


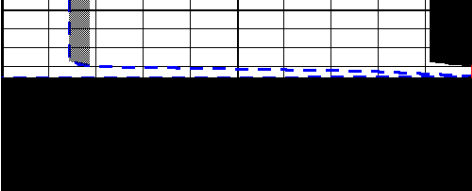




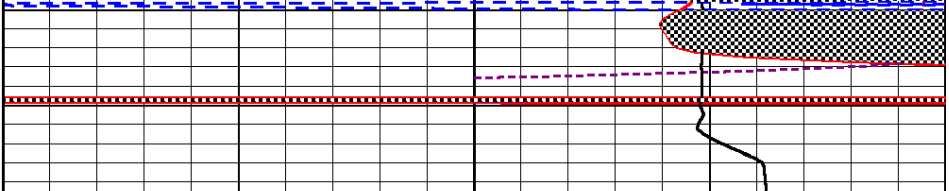








0	Gamma Ray (GAPI)	150
6	Caliper (in)	16



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)