



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-055-22,263-00-00

Company American Warrior, Inc.

Well Congdon No. 9-28

Field Congdon

County Finney

State Kansas

Location 1616' FSL & 1137' FEL

Sec: 28

Twp: 23S

Rge: 32W

Other Services
DIL
MEI/BHCS

Permanent Datum Ground Level Elevation 2845
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2856
D.F. 2845
G.L. 2845

Date 1/19/13

Run Number One

Type Log CNL / CDL

Depth Driller 4875

Depth Logger 4875

Bottom Logged Interval 4854

Top Logged Interval 3800

Type Fluid In Hole Chemical

Salinity, PPM CL 3,200

Density 9.3

Level Full

Max. Rec. Temp. F 125

Operating Rig Time 5 Hours

Equipment -- Location 108 Hays

Recorded By J. Henrickson

Witnessed By Kevin Timson

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

1156

8.625

23#

00

1156

TD

7.875

1156

TD

7.875

1156

TD

7.875

1156

TD

7.875

1156

TD

7.875

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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

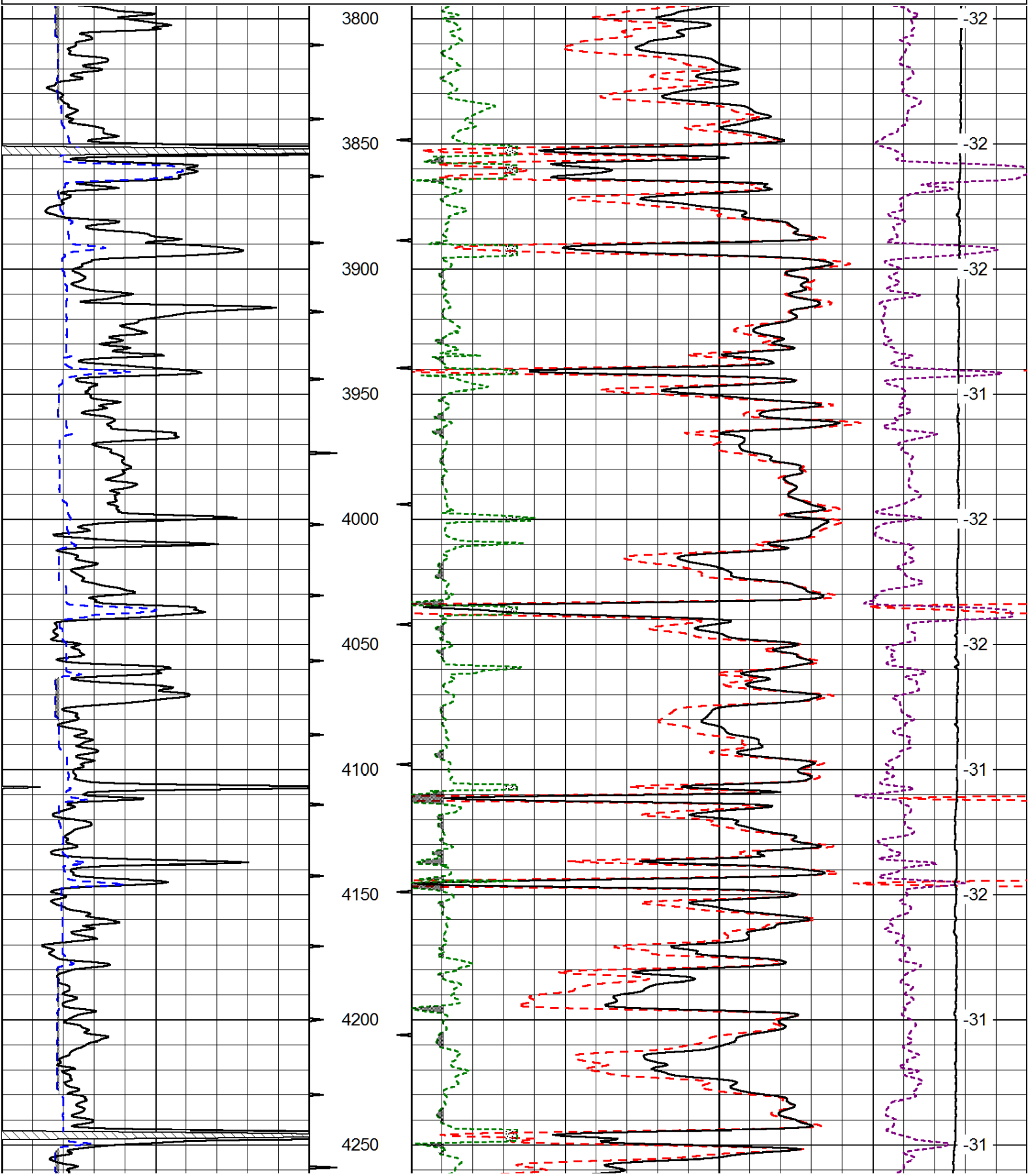
Garden City Kansas
North to Rodkey Rd, 5 1/2 East, North Into

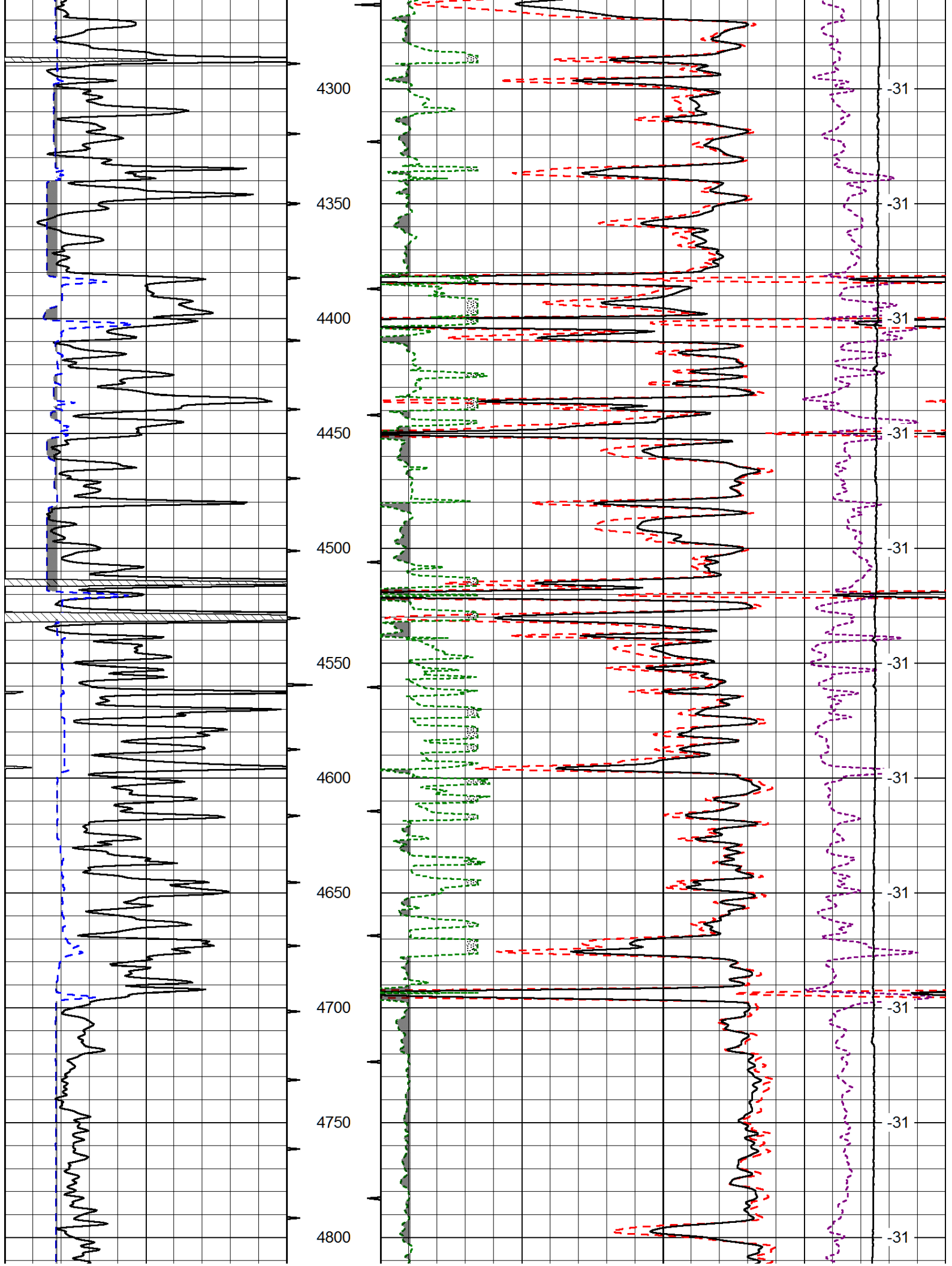
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Dataset Pathname: DIL/amwar
Presentation Format: cdl
Dataset Creation: Sun Jan 19 20:37:58 2014
Charted by: Depth in Feet scaled 1:600

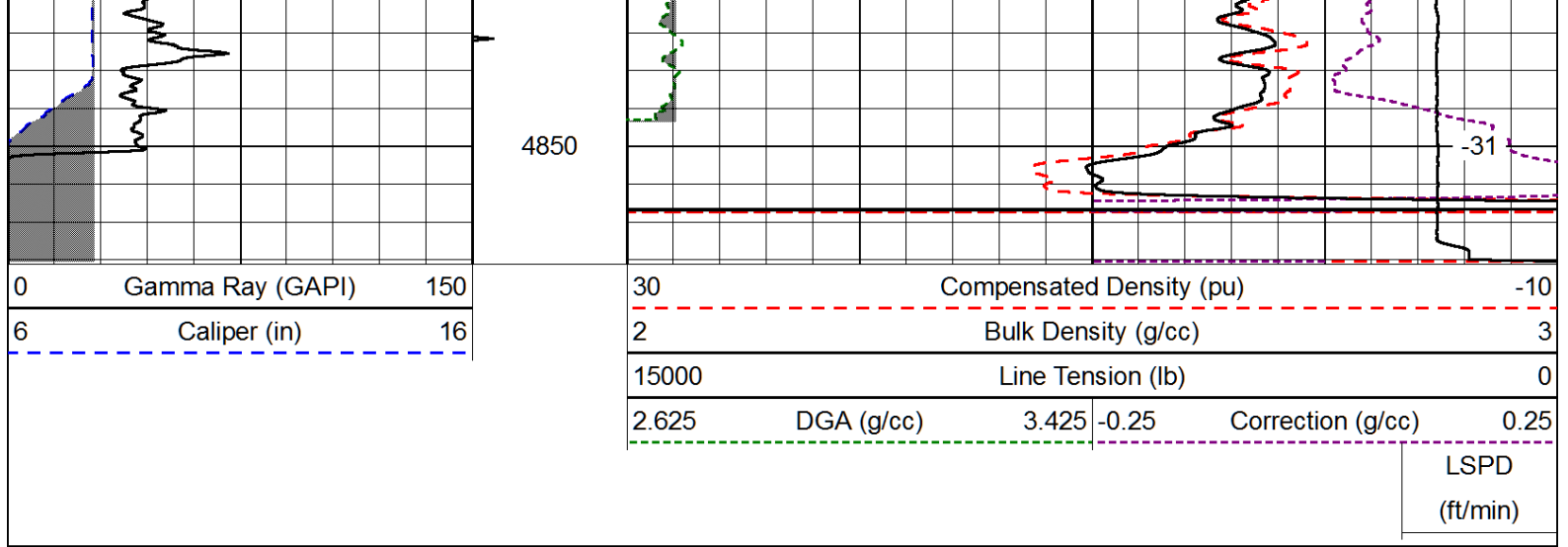
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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

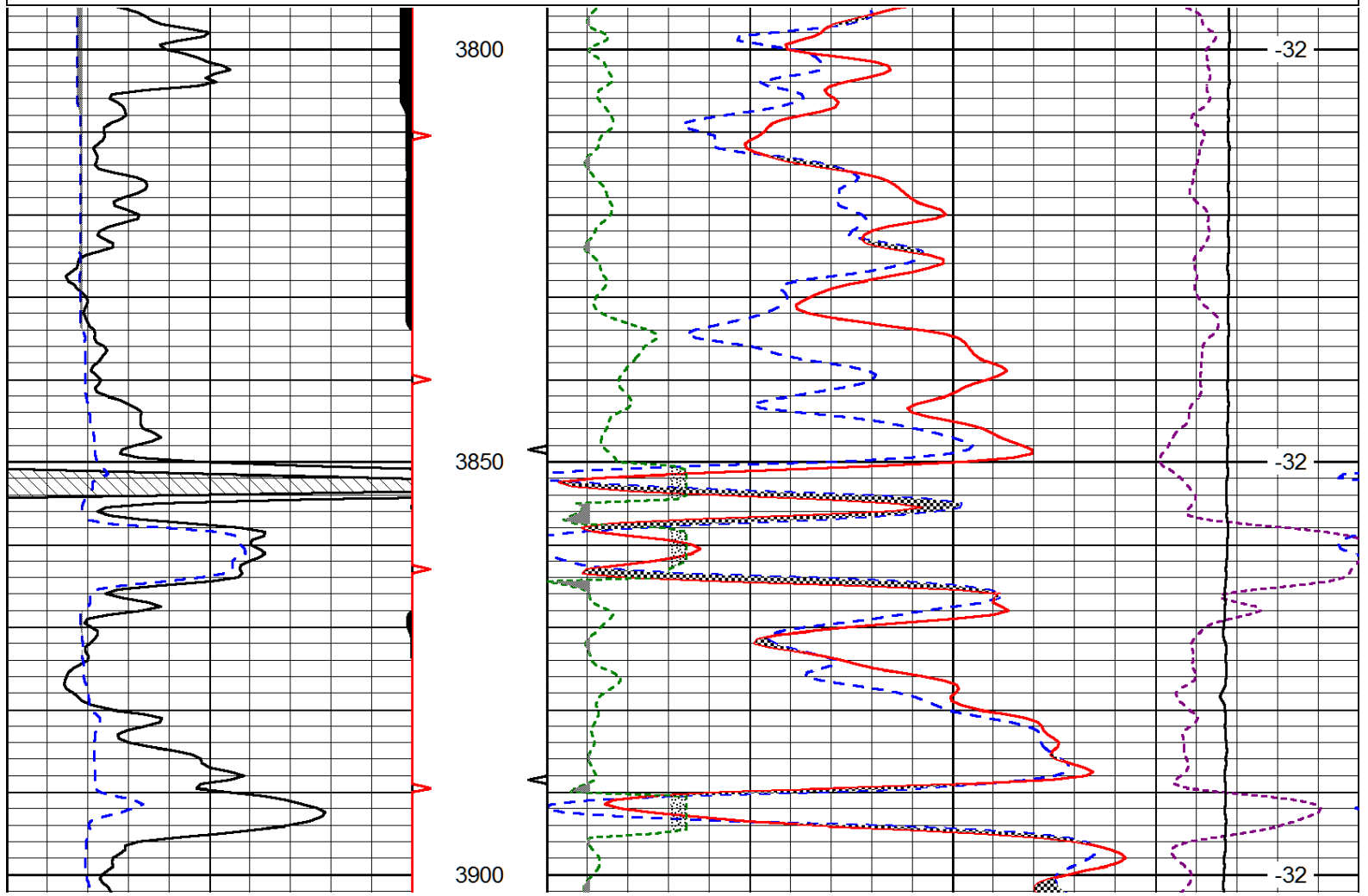
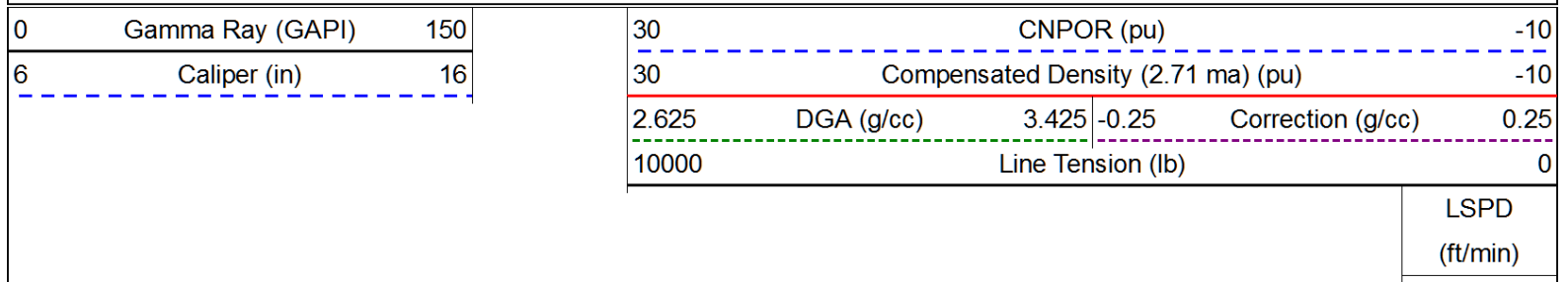
LSPD
(ft/min)

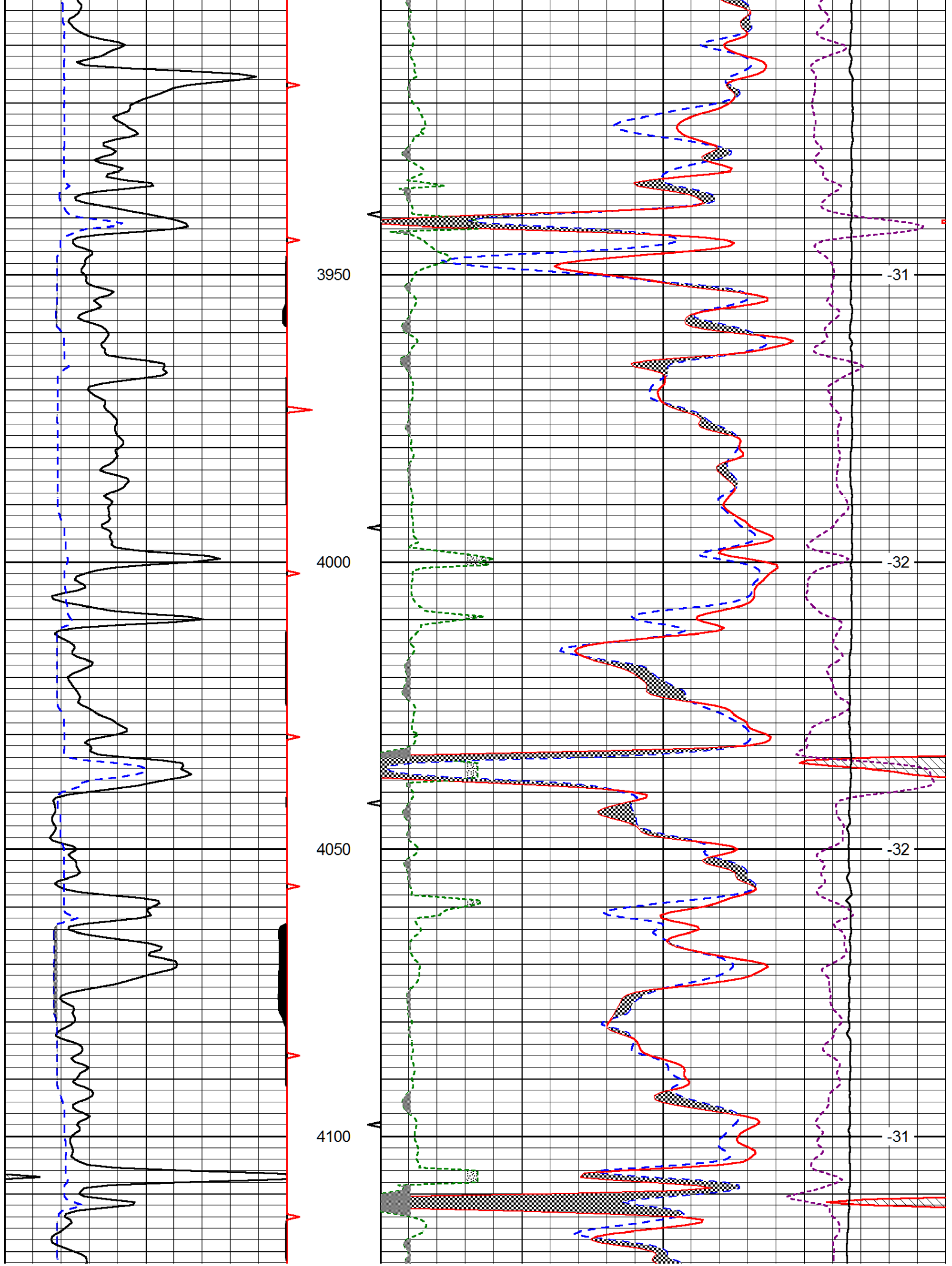


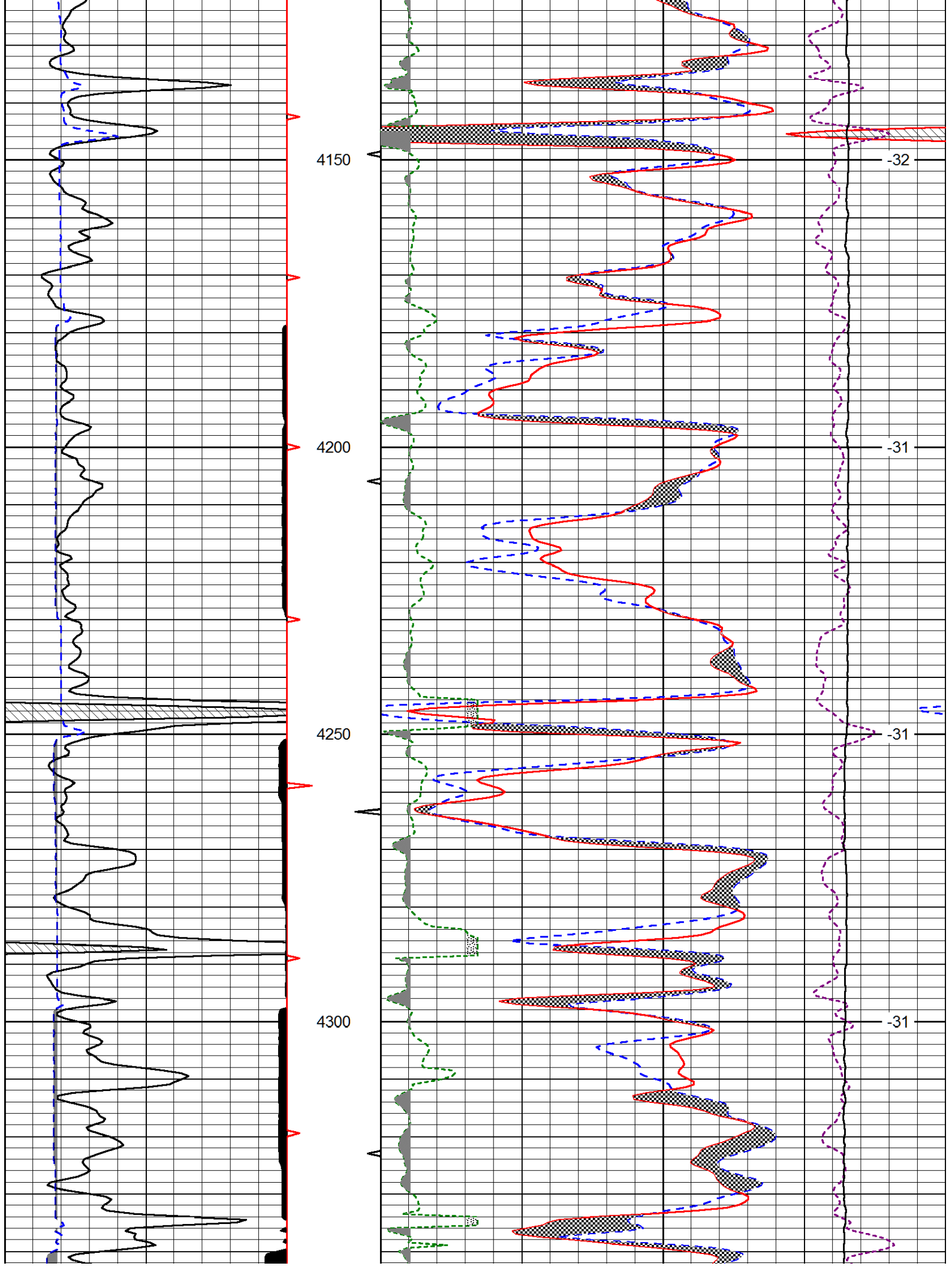


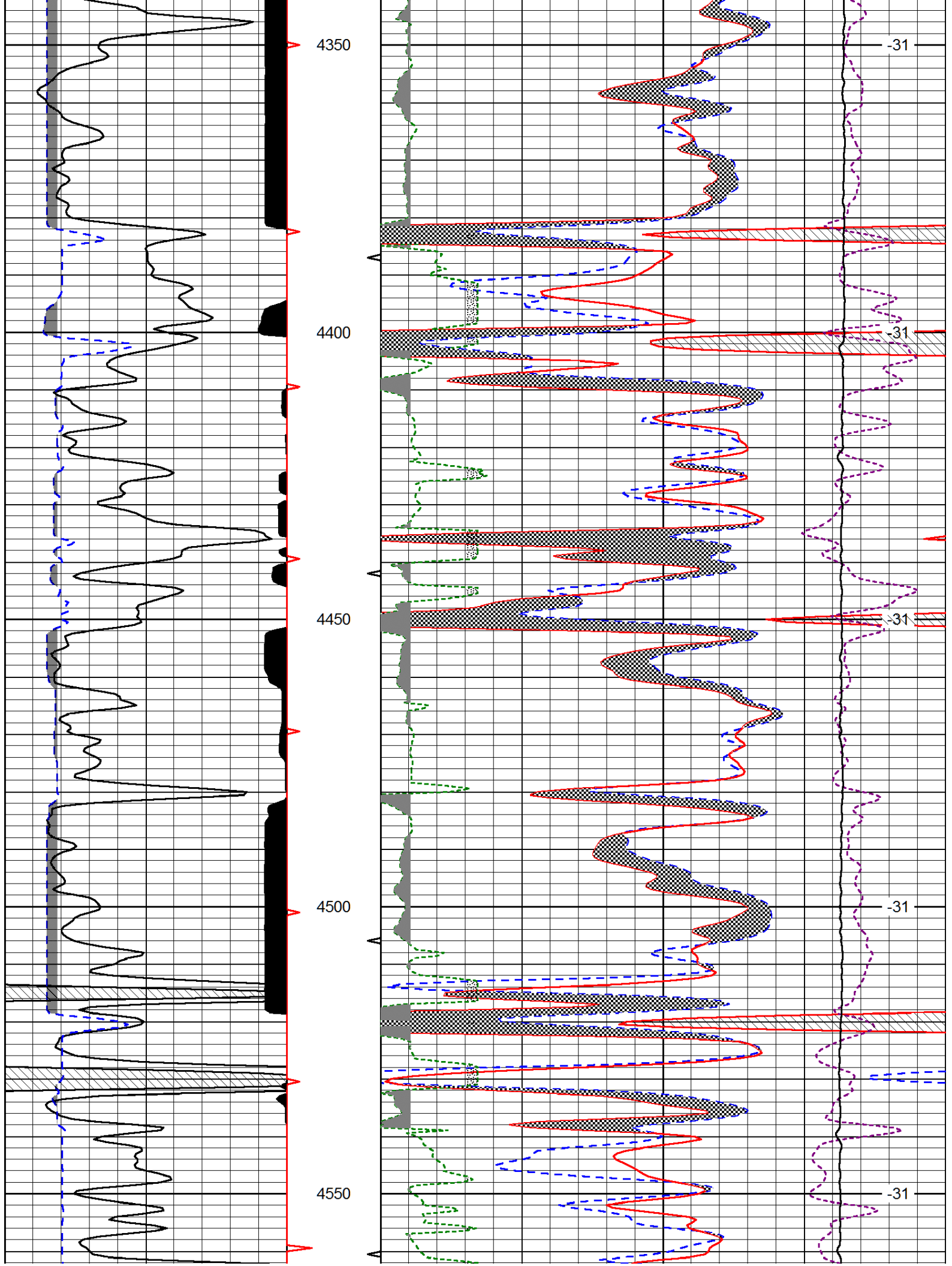


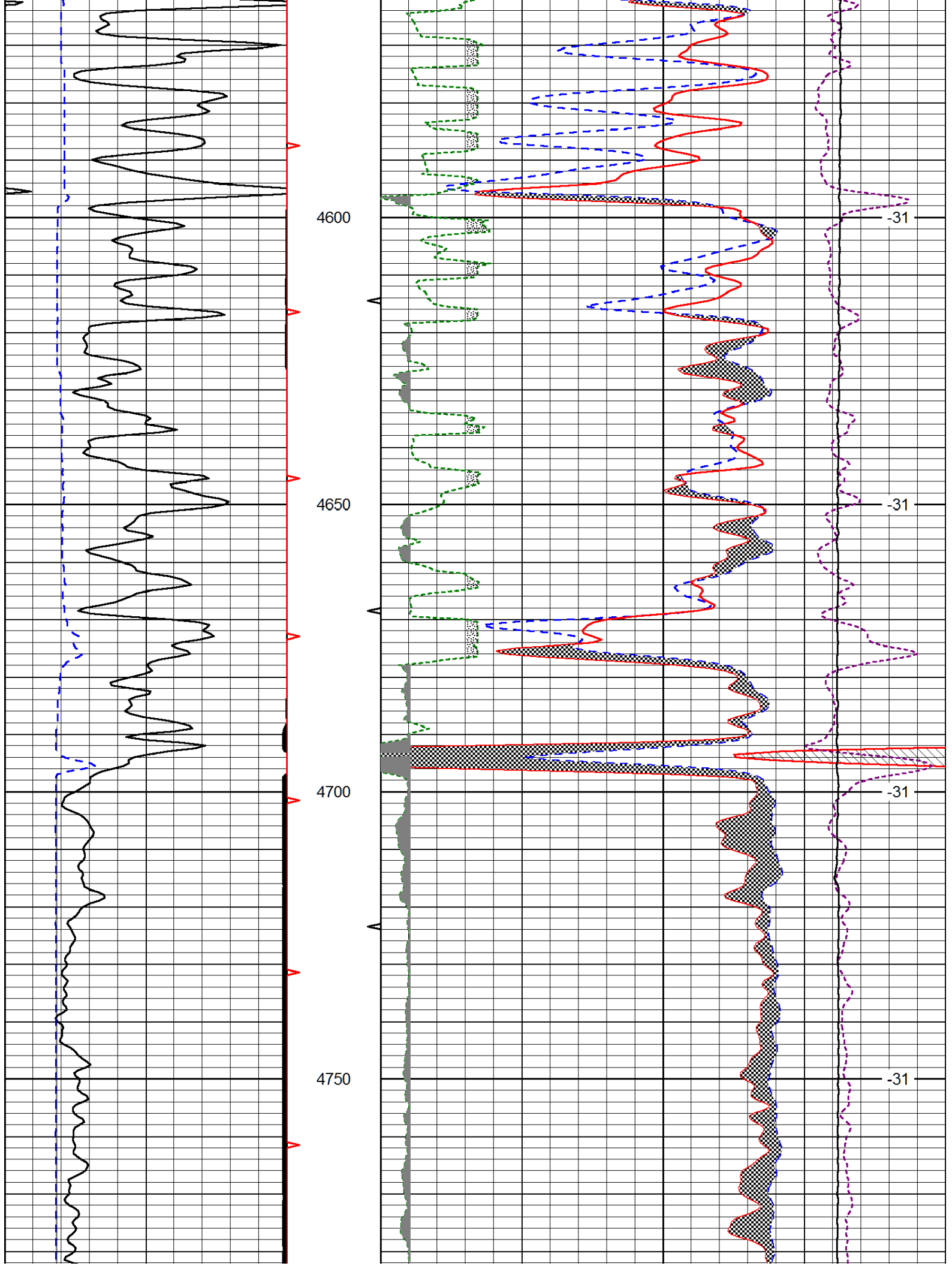
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Presentation Format: cndlspec
Dataset Creation: Sun Jan 19 20:37:58 2014
Charted by: Depth in Feet scaled 1:240

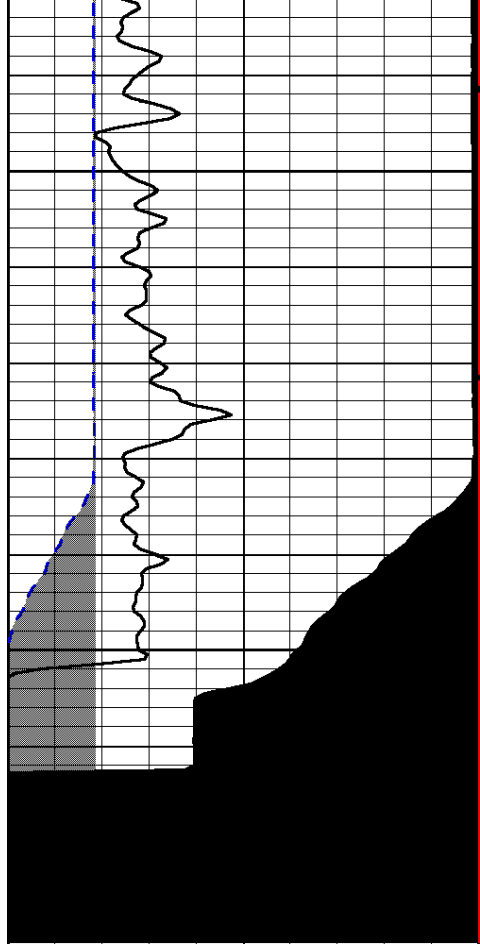




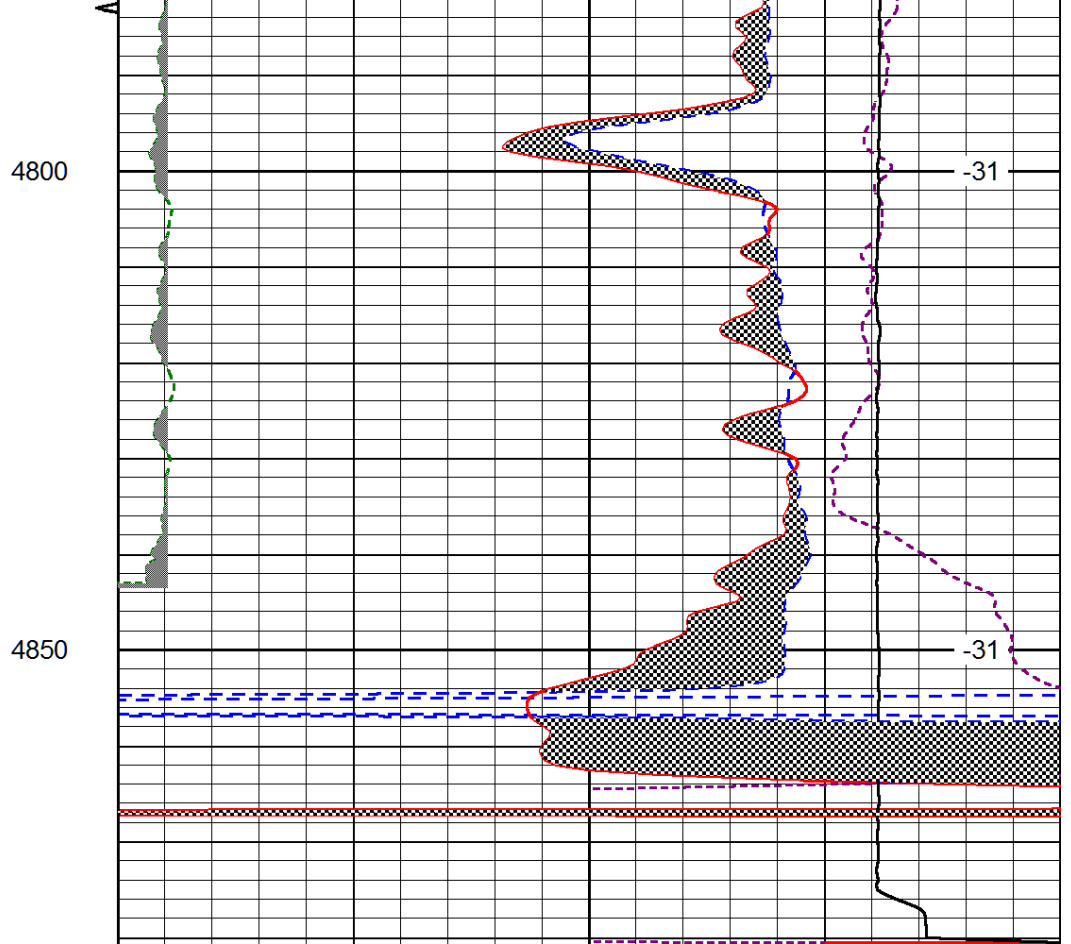








0	Gamma Ray (GAPI)	150
6	Caliper (in)	16



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)