



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-191-22754-00-00

Company Jolen Operating Company

Well Renner #4A SWD

Field Anson

County Sumner

State Kansas

Location

875' FSL & 1652' FEL

Sec: 35

Twp: 30S

Rge: 2W

Elevation

Permanent Datum Ground Level Elevation 1317

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

K.B. 1328
D.F.
G.L. 1317

Other Services
DIL/MEL
BHCS

Date 7/4/2014

Run Number One

Type Log CNL / CDL

Depth Driller 4850

Depth Logger 4844

Bottom Logged Interval 4823

Top Logged Interval 1900

Type Fluid In Hole Chemical

Salinity, PPM CL 2500

Density 9.5

Level Full

Max. Rec. Temp. F 125

Operating Rig Time 6 Hours

Equipment -- Location Hays

Recorded By D. Schmidt

Witnessed By Perry Hennan

Borehole Record

Casing Record

Run No Bit From To Size Wgt. From To

One 17.50 0 220 13.375 220

Two 9.50 220 4664 220

Three 8.75 4664 TD 220

<<< 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.

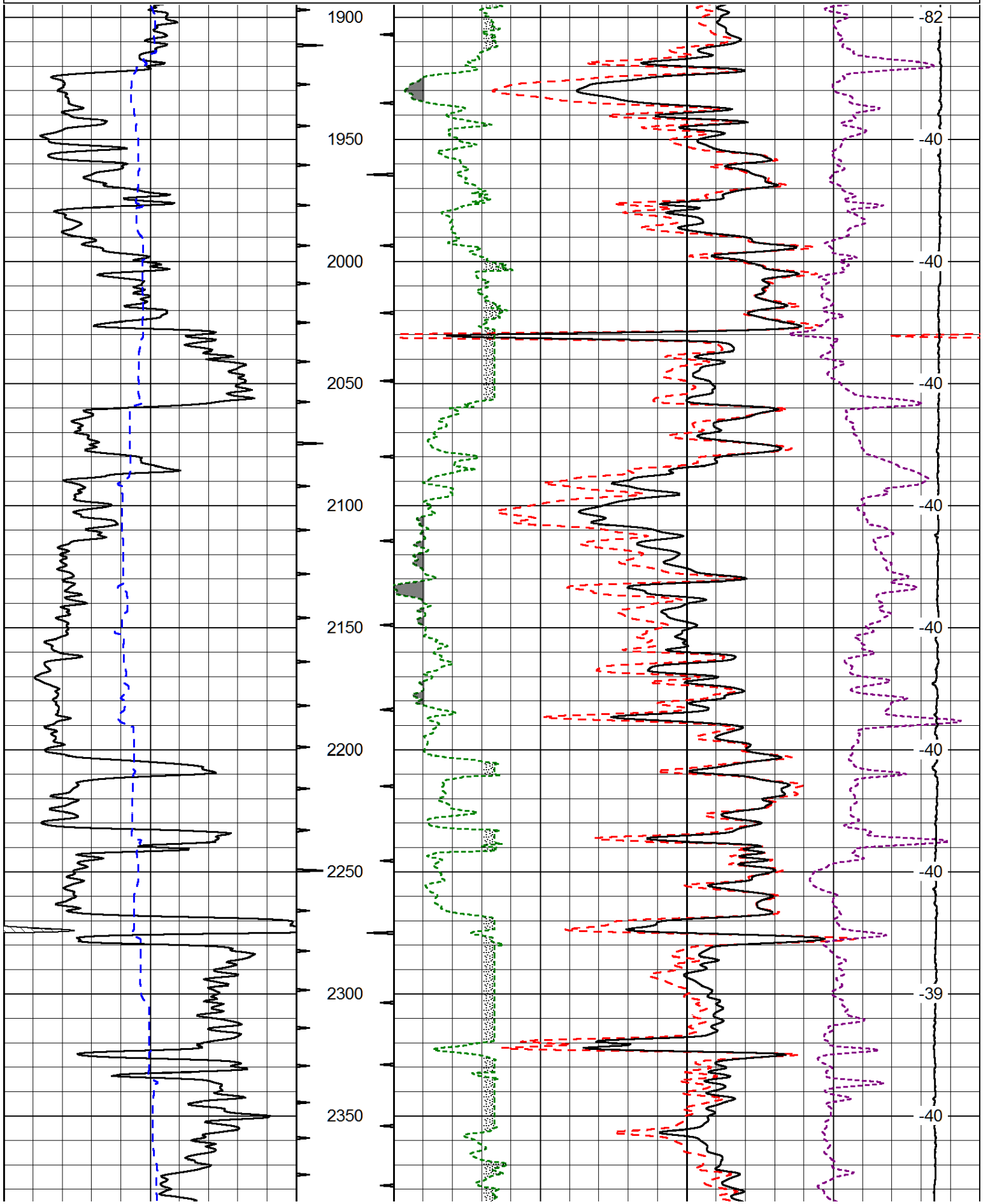
Comments

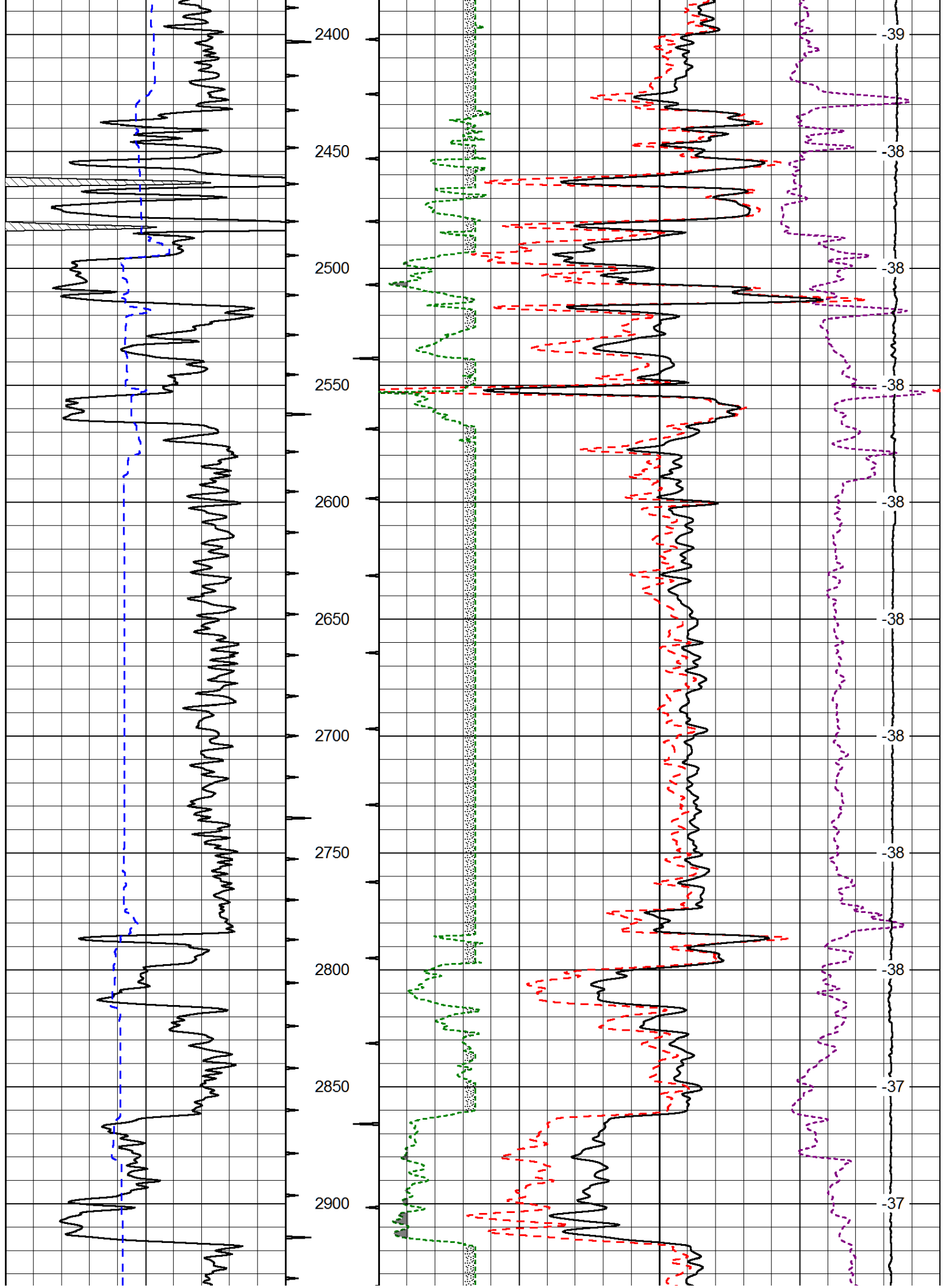
Thank you for using Log-Tech, Inc.
(785) 625-3858
I-35 Turnpike & Mulvane Exit,
West to Hwy 81, South on highway, road curves West,
when highway curves back South continue West on Conway Springs blktop,
6 West to Perth Rd, 1/4 North,
West into

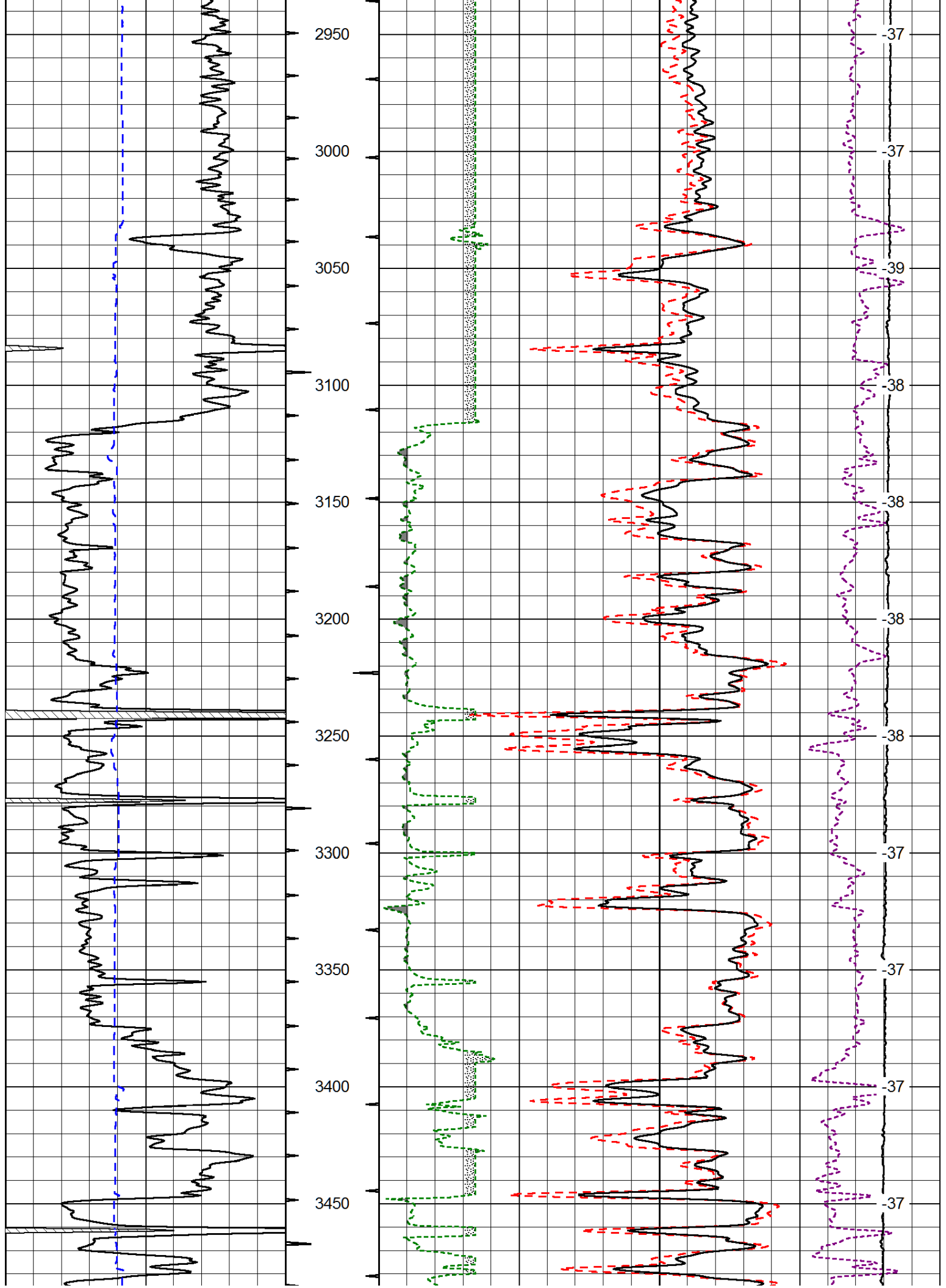
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Dataset Pathname: dil/jostack
Presentation Format: cdl
Dataset Creation: Sat Jul 05 00:04:44 2014
Charted by: Depth in Feet scaled 1:600

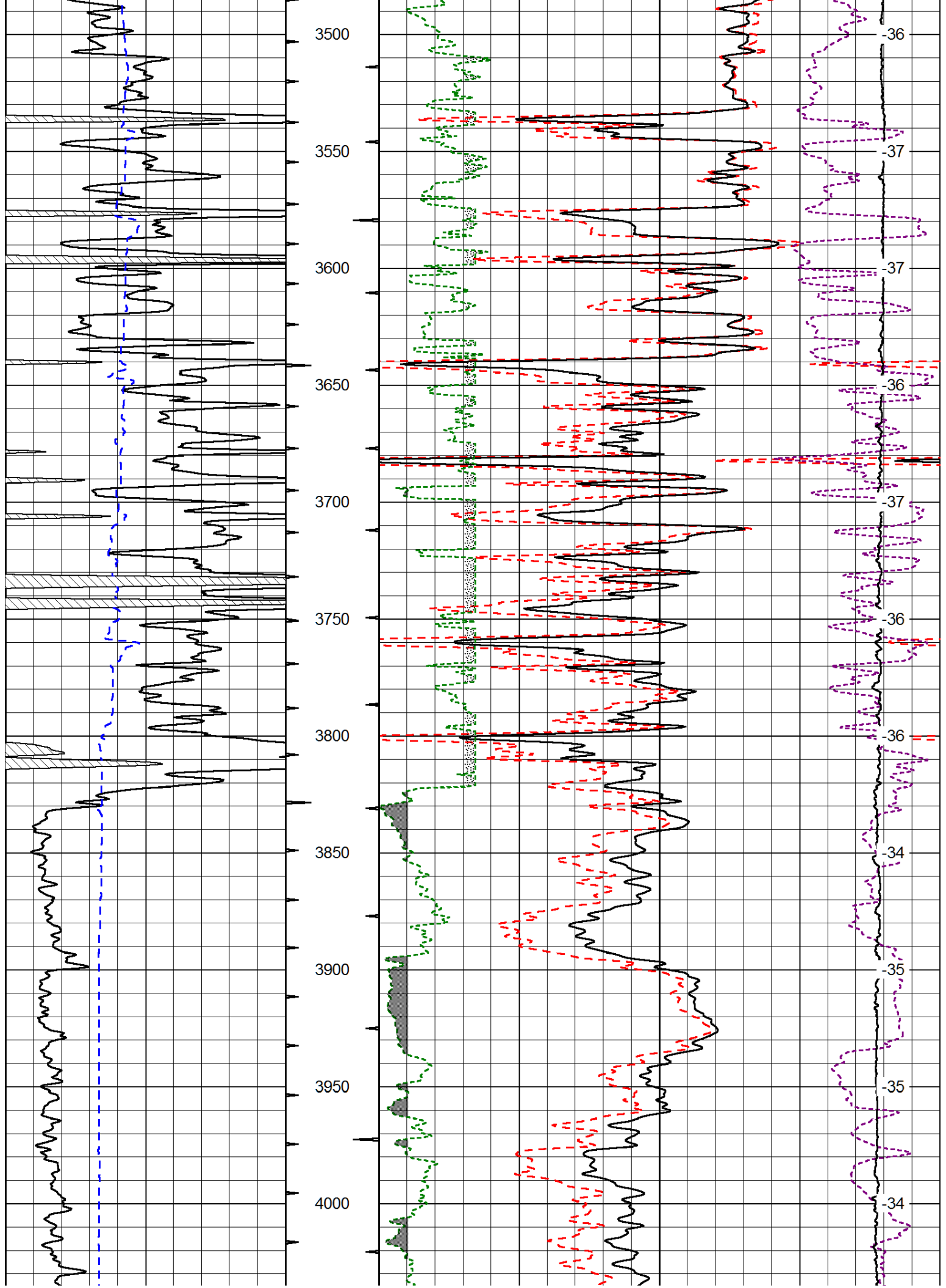
0	Gamma Ray	150
6	Caliper (GAPI)	16

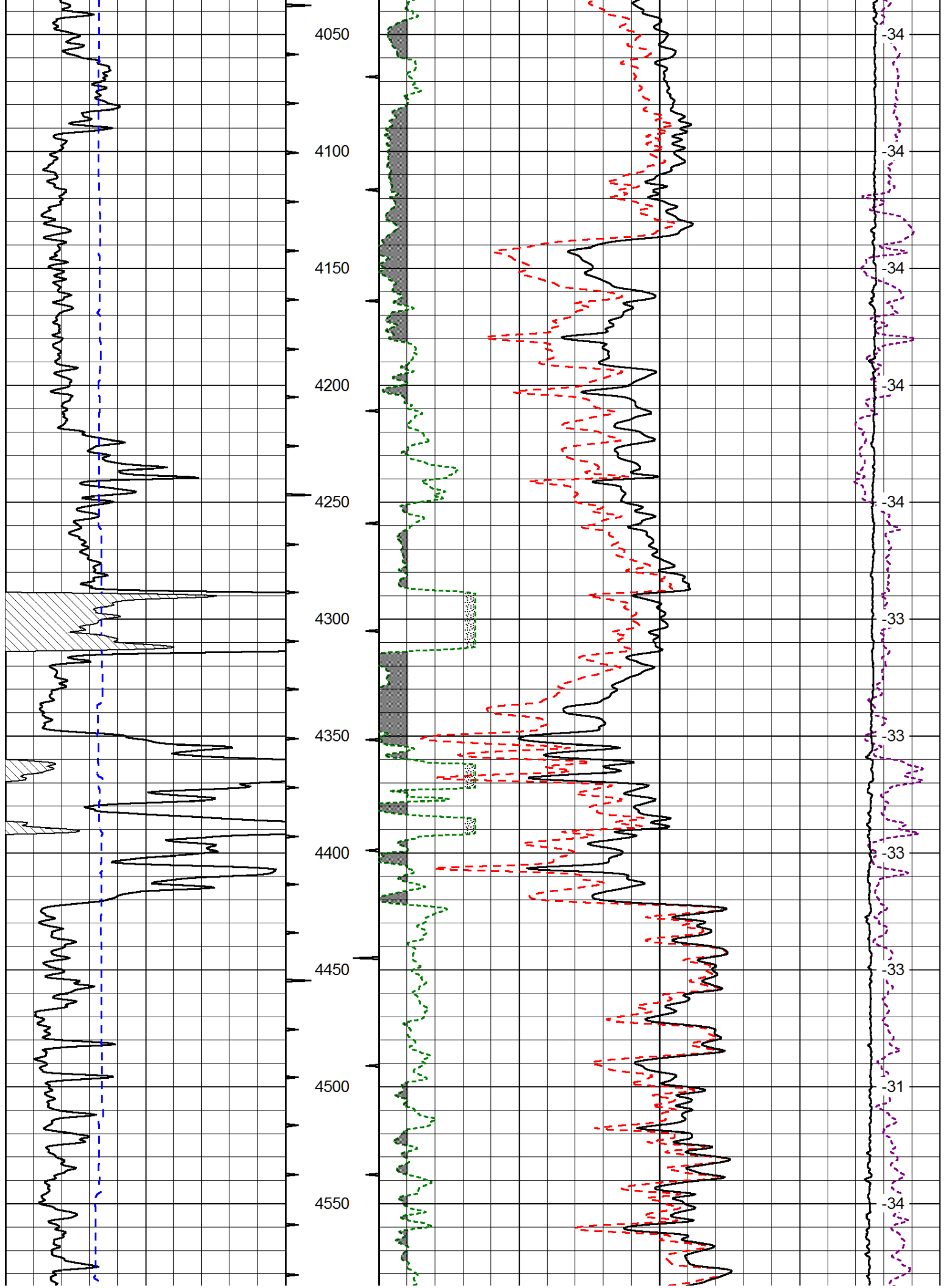
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

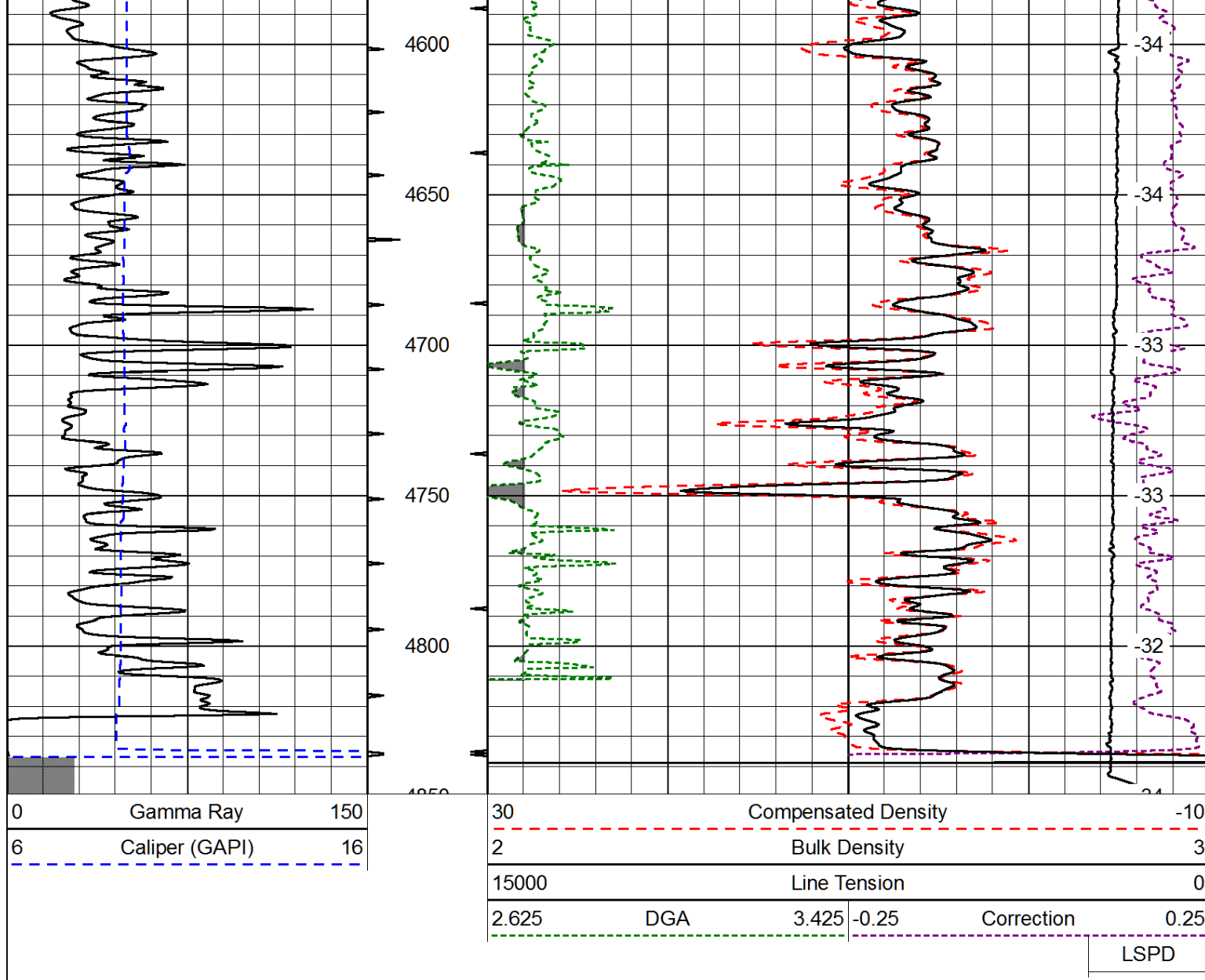




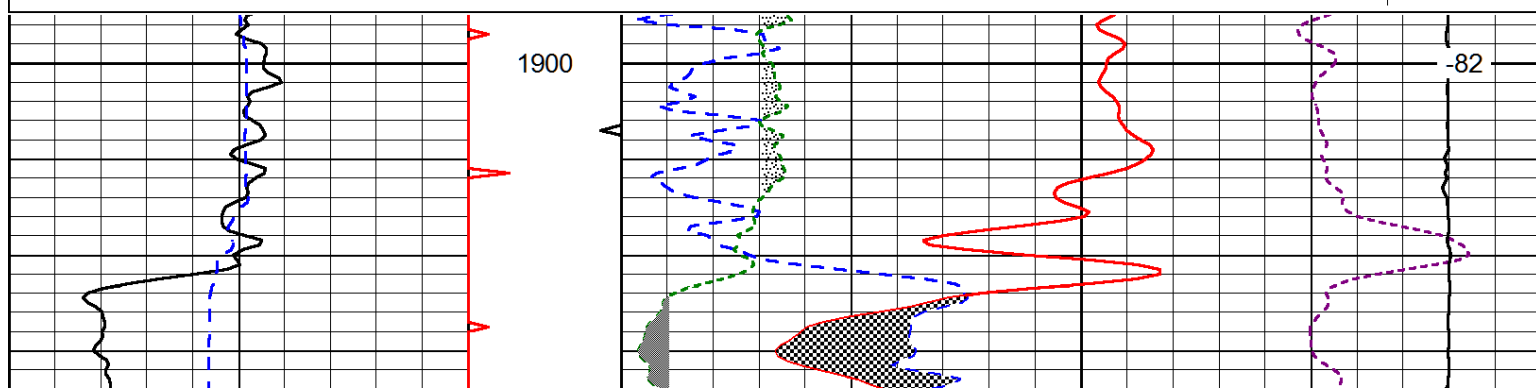
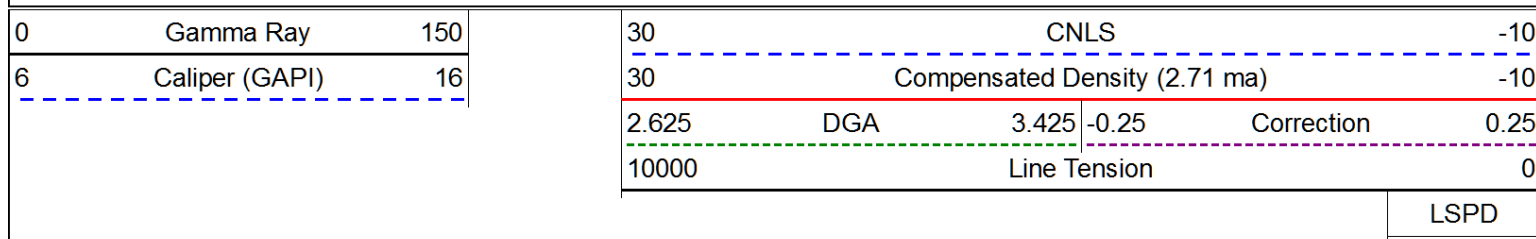


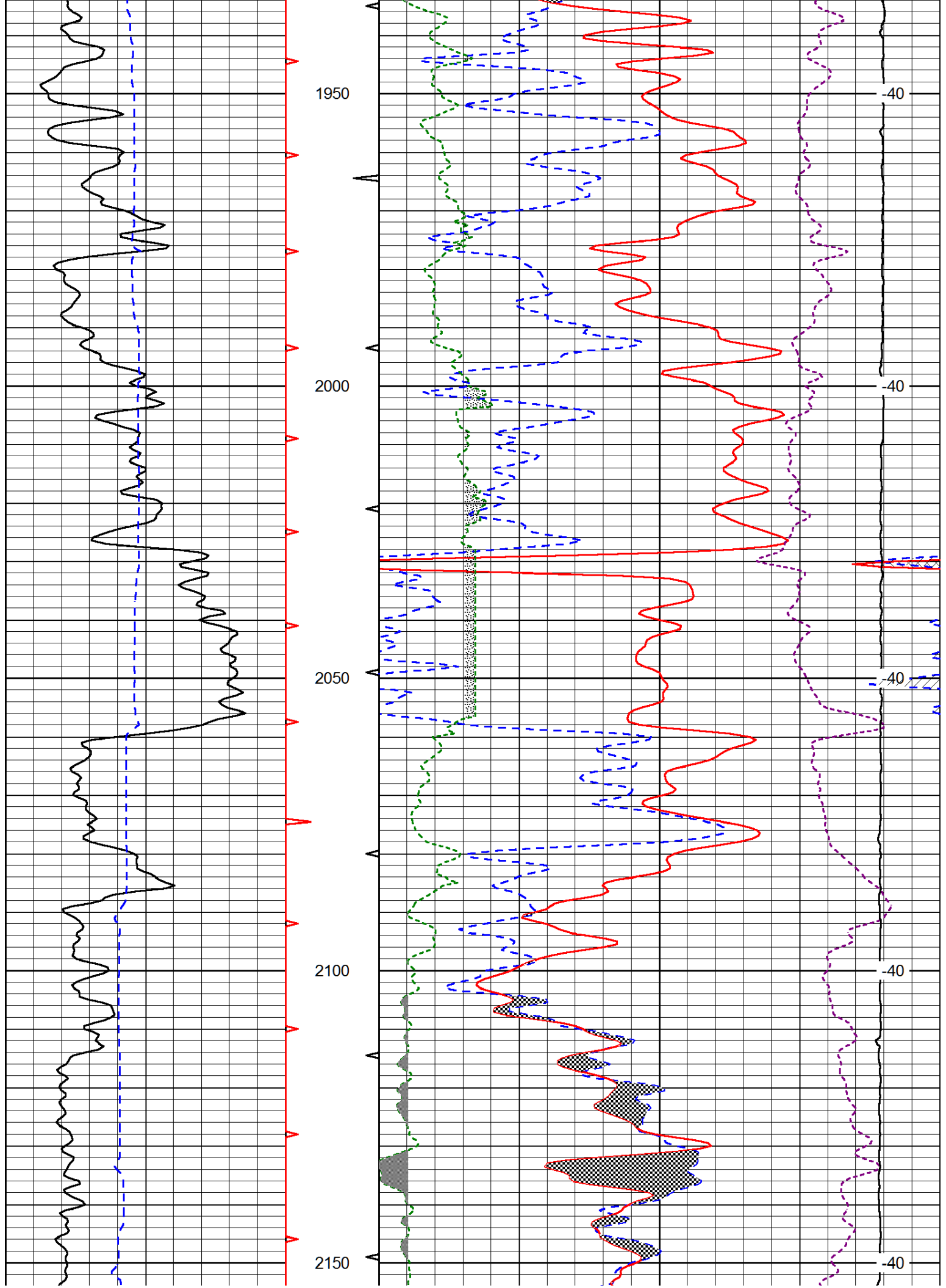


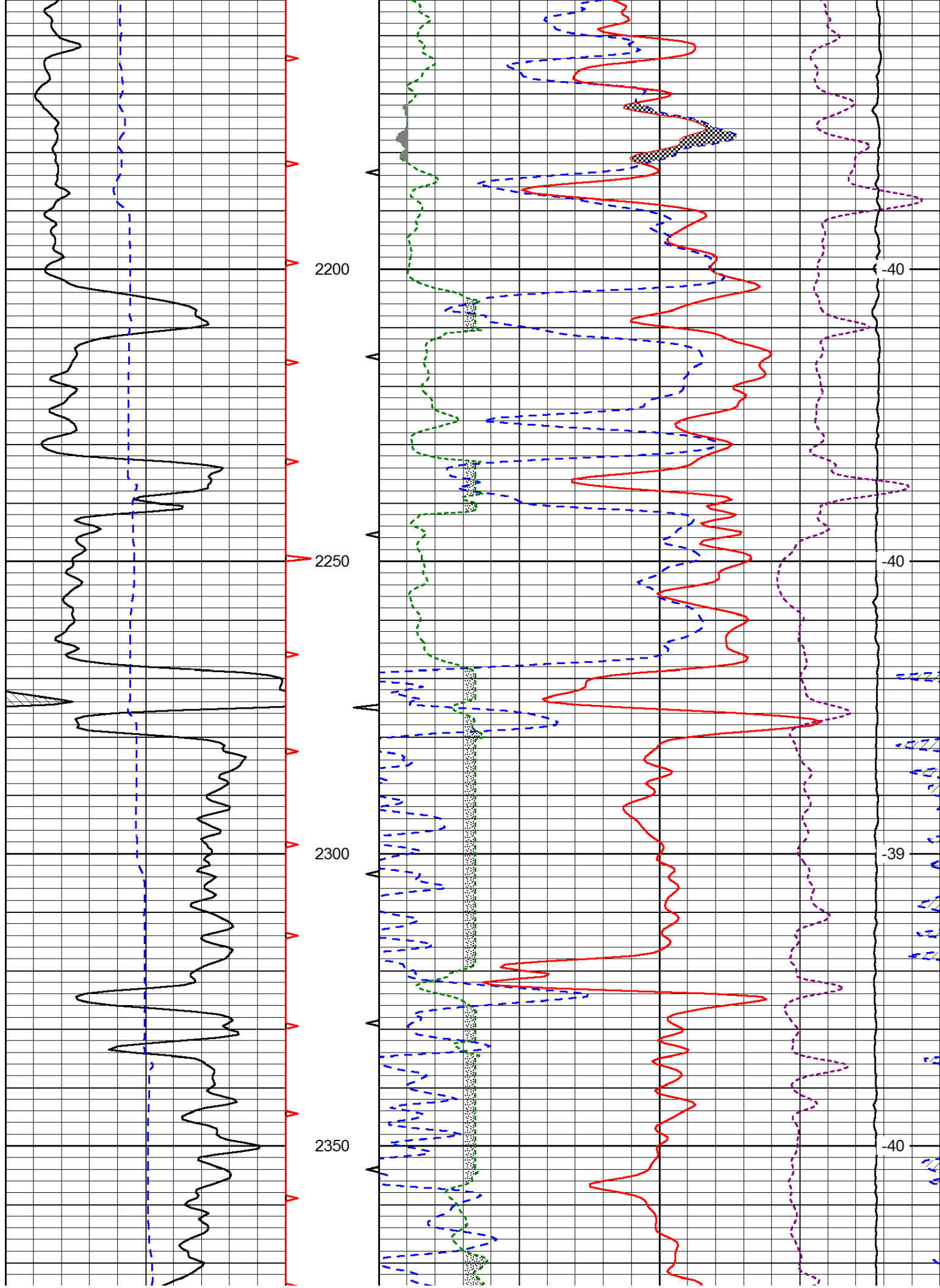


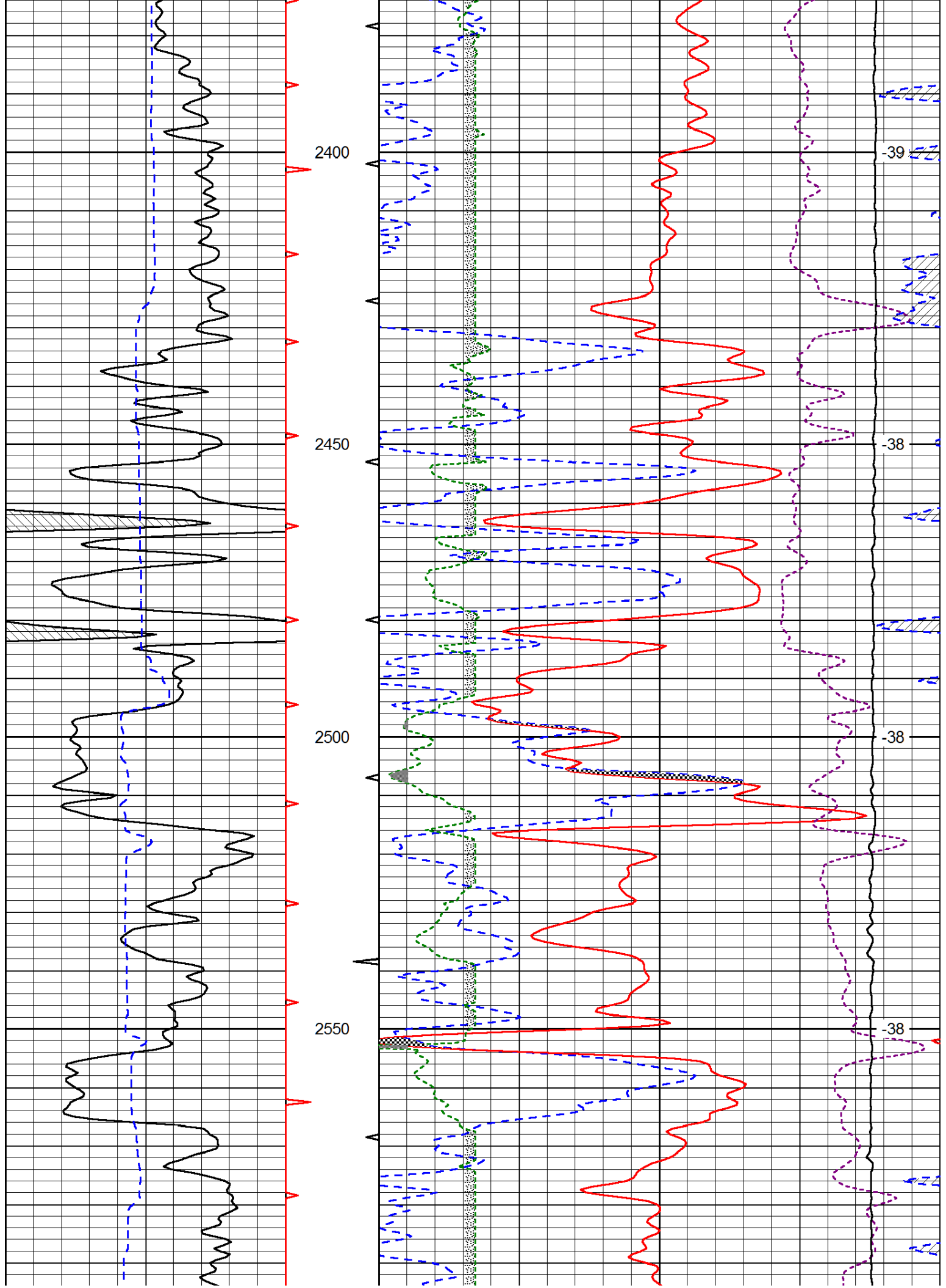


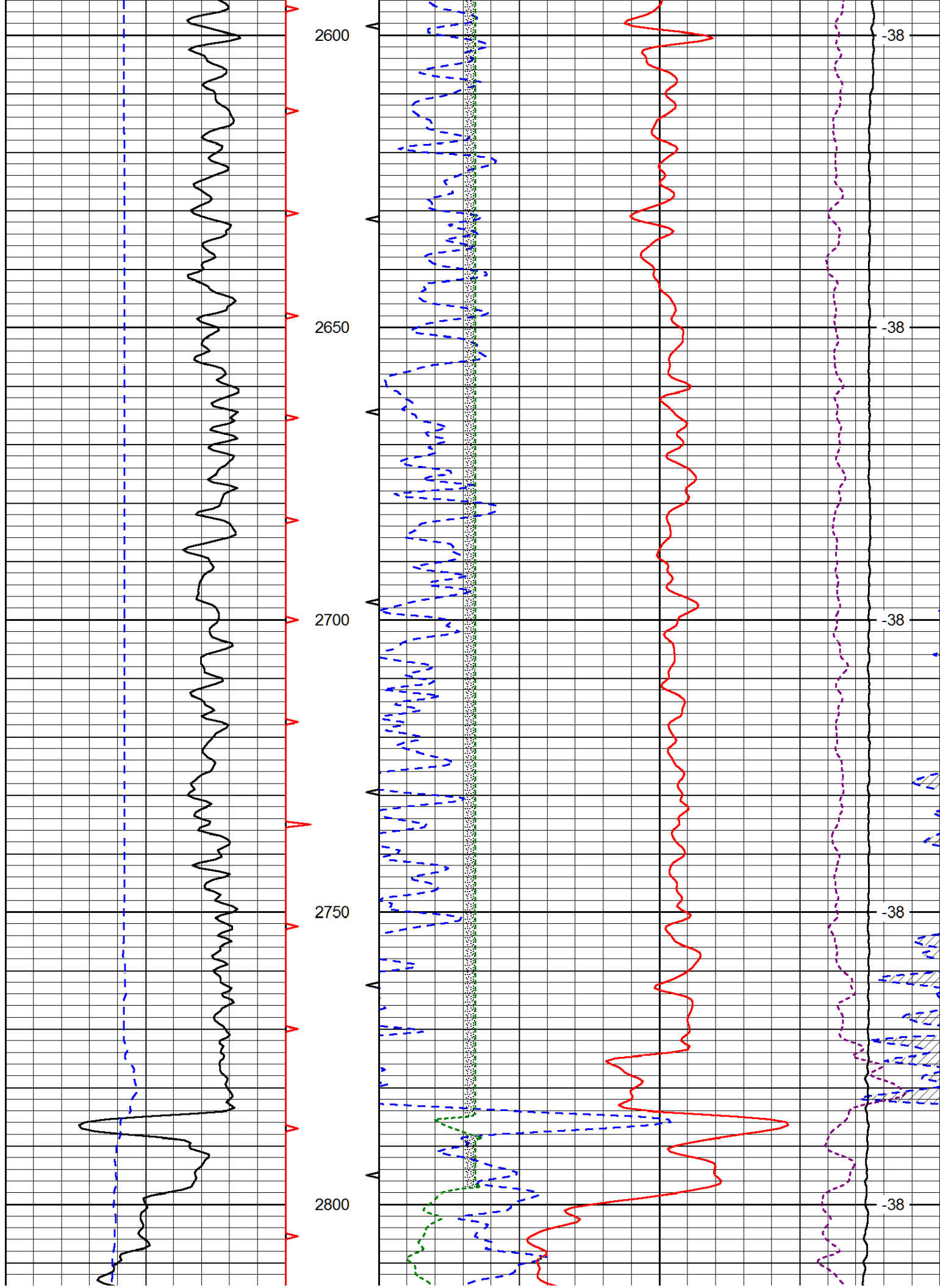
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 Dataset Pathname: dil/jostack
 Presentation Format: cndlspec
 Dataset Creation: Sat Jul 05 00:04:44 2014
 Charted by: Depth in Feet scaled 1:240

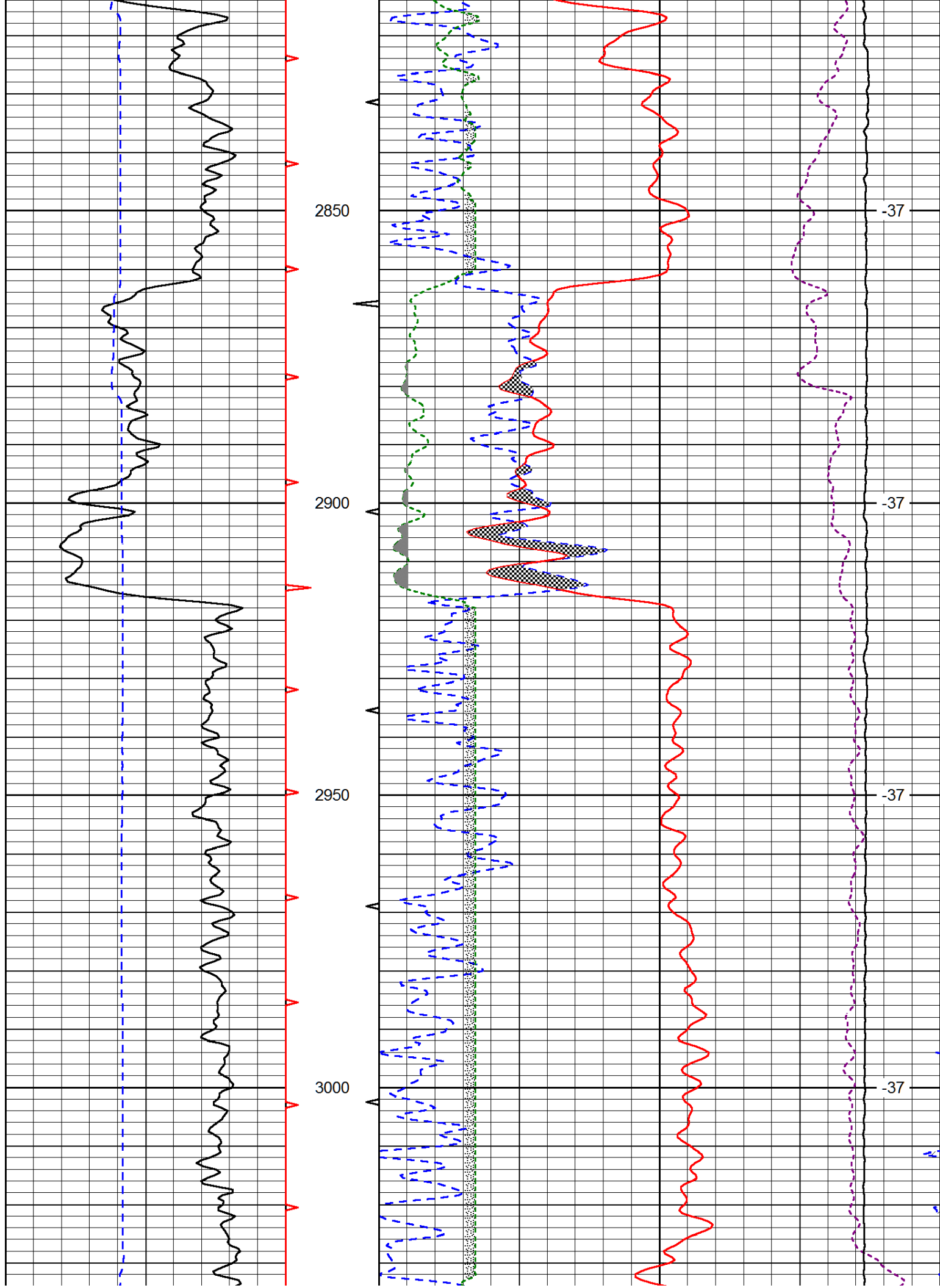


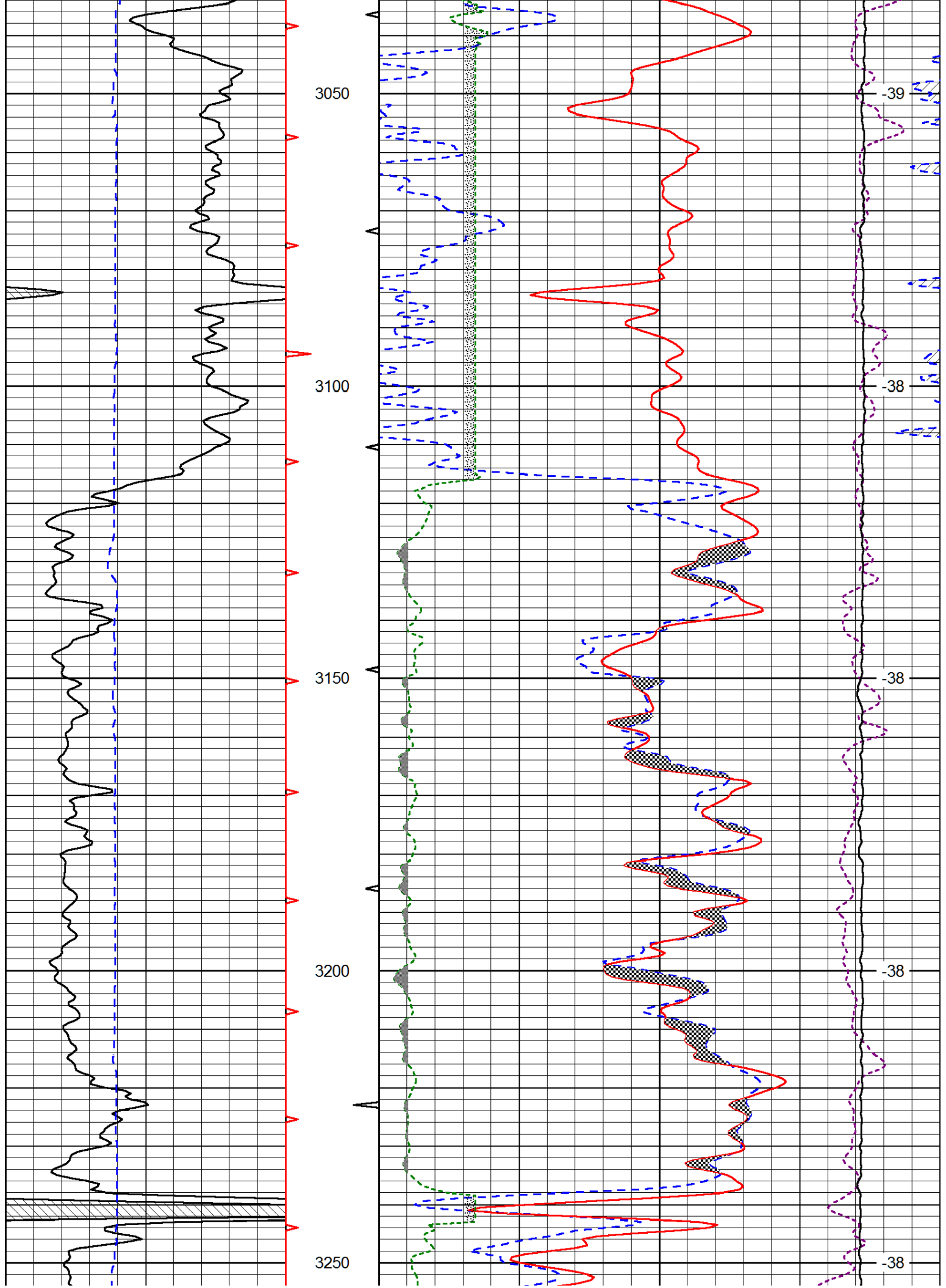


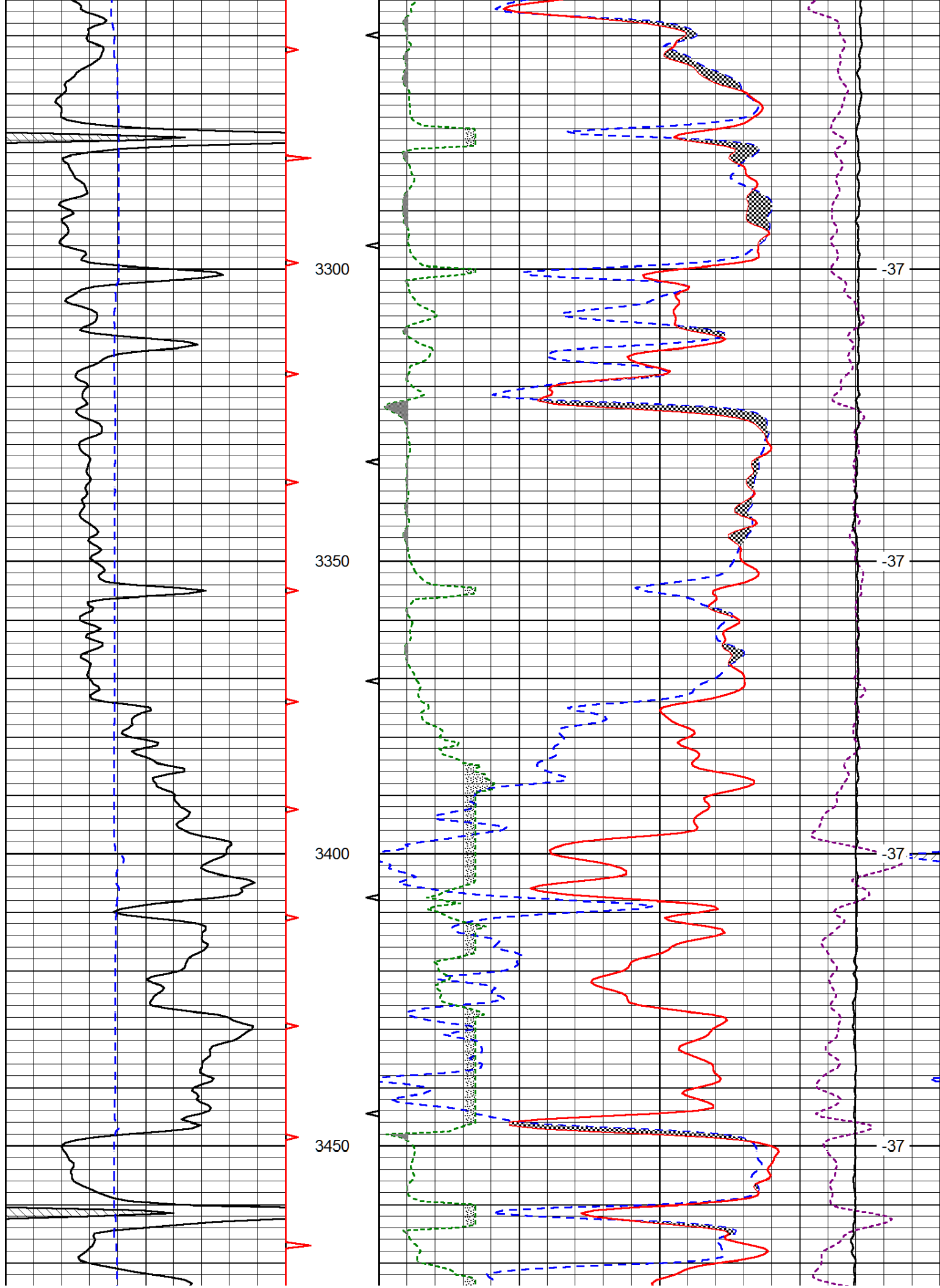


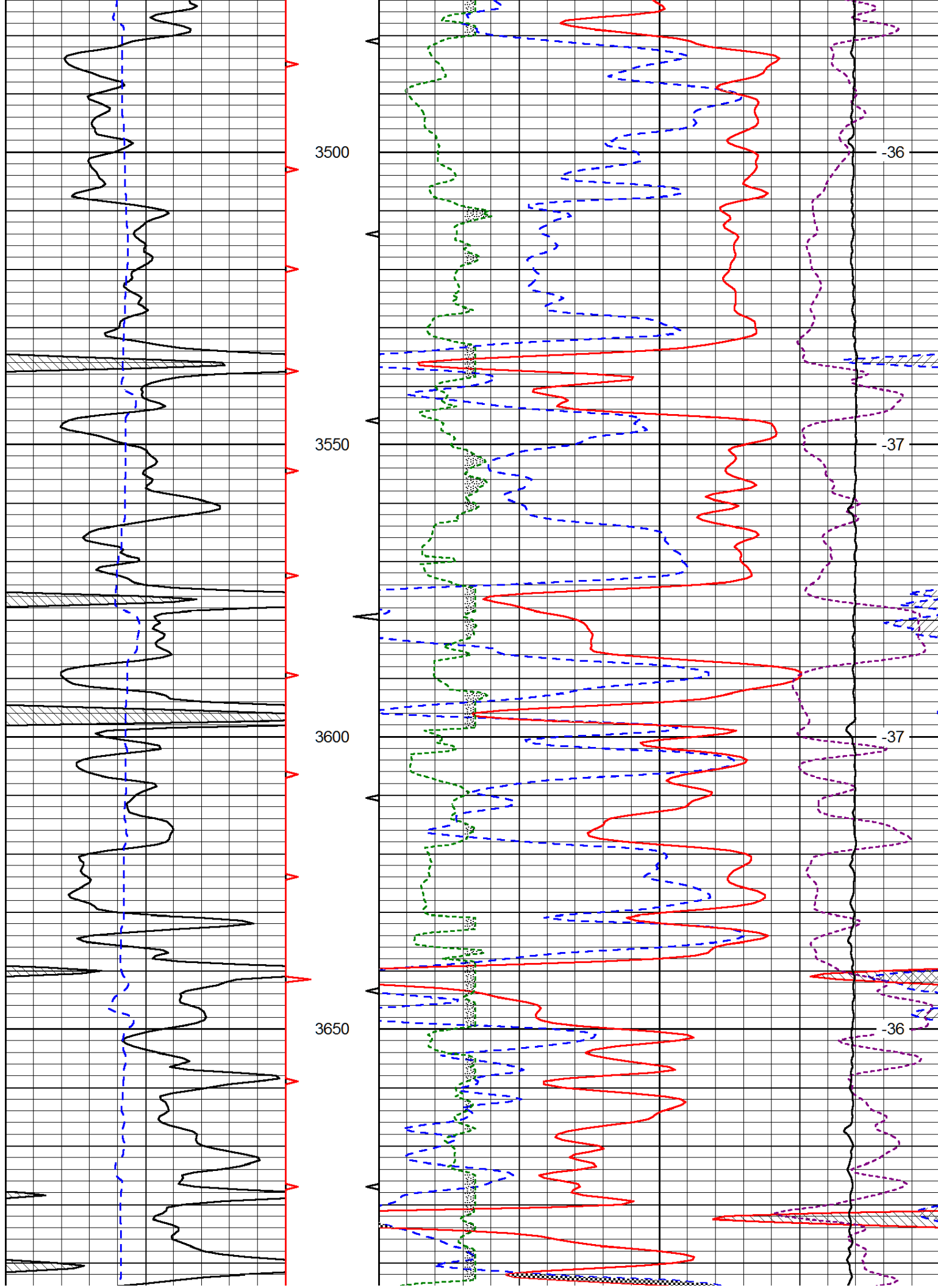


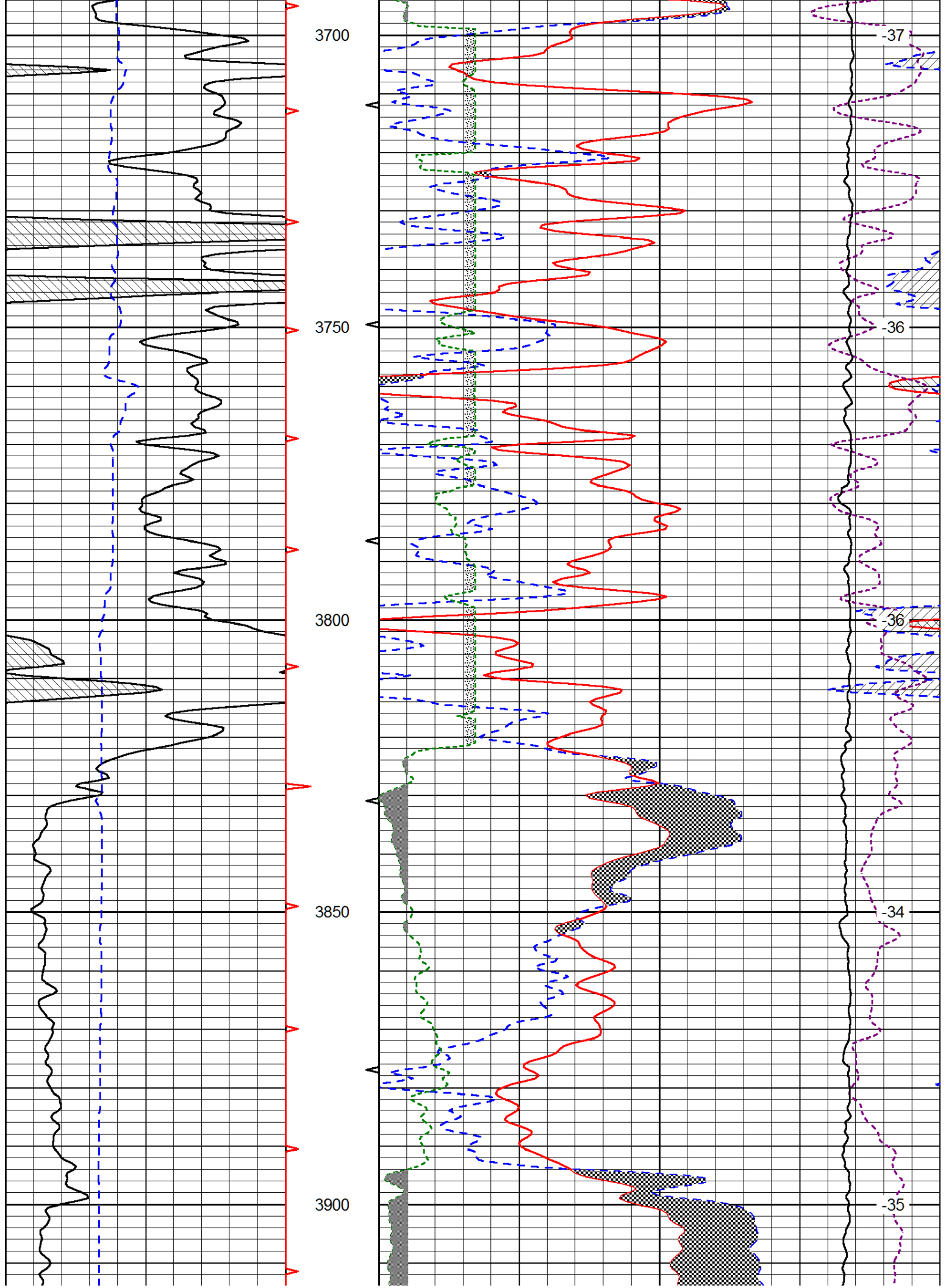


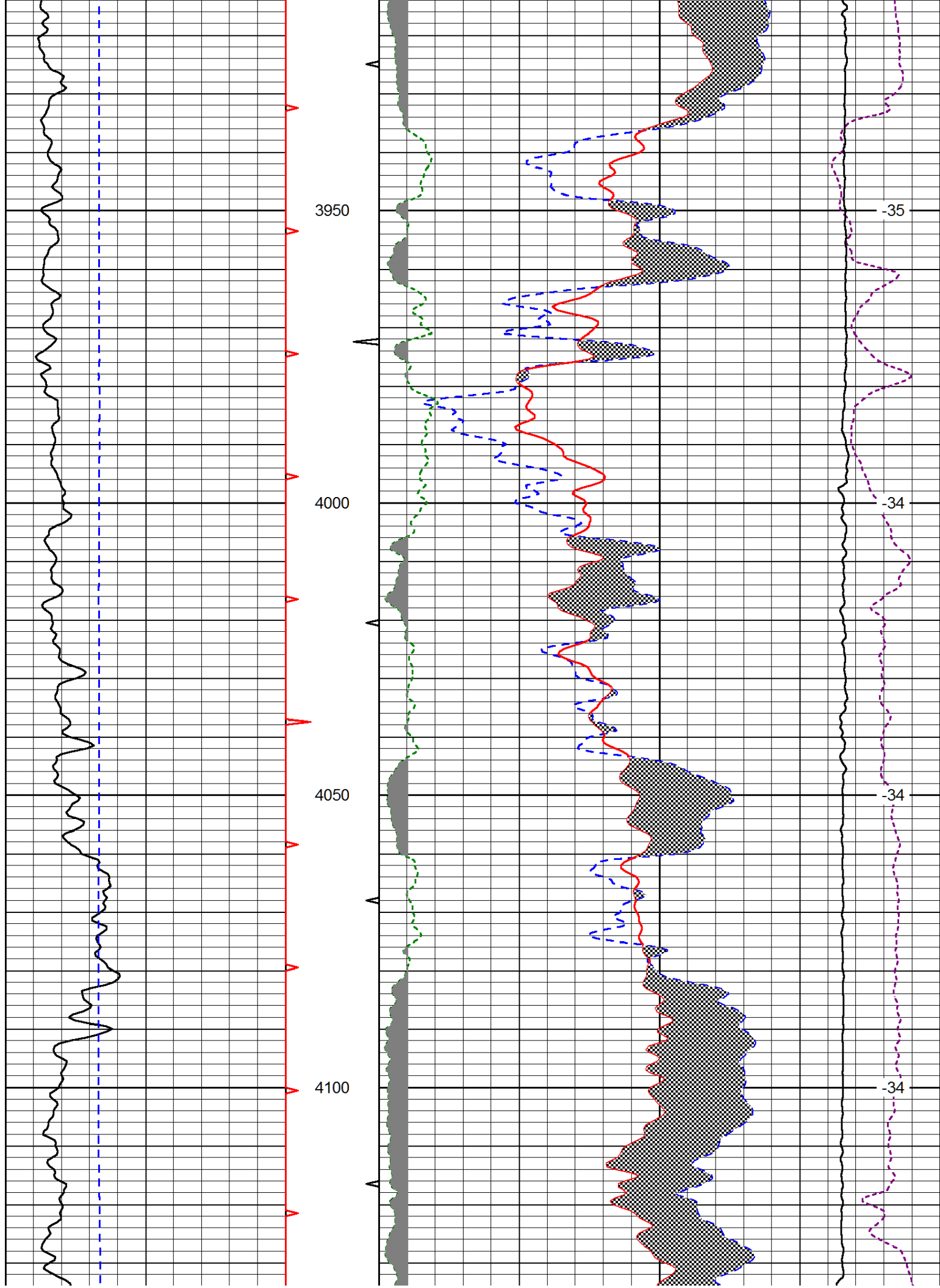


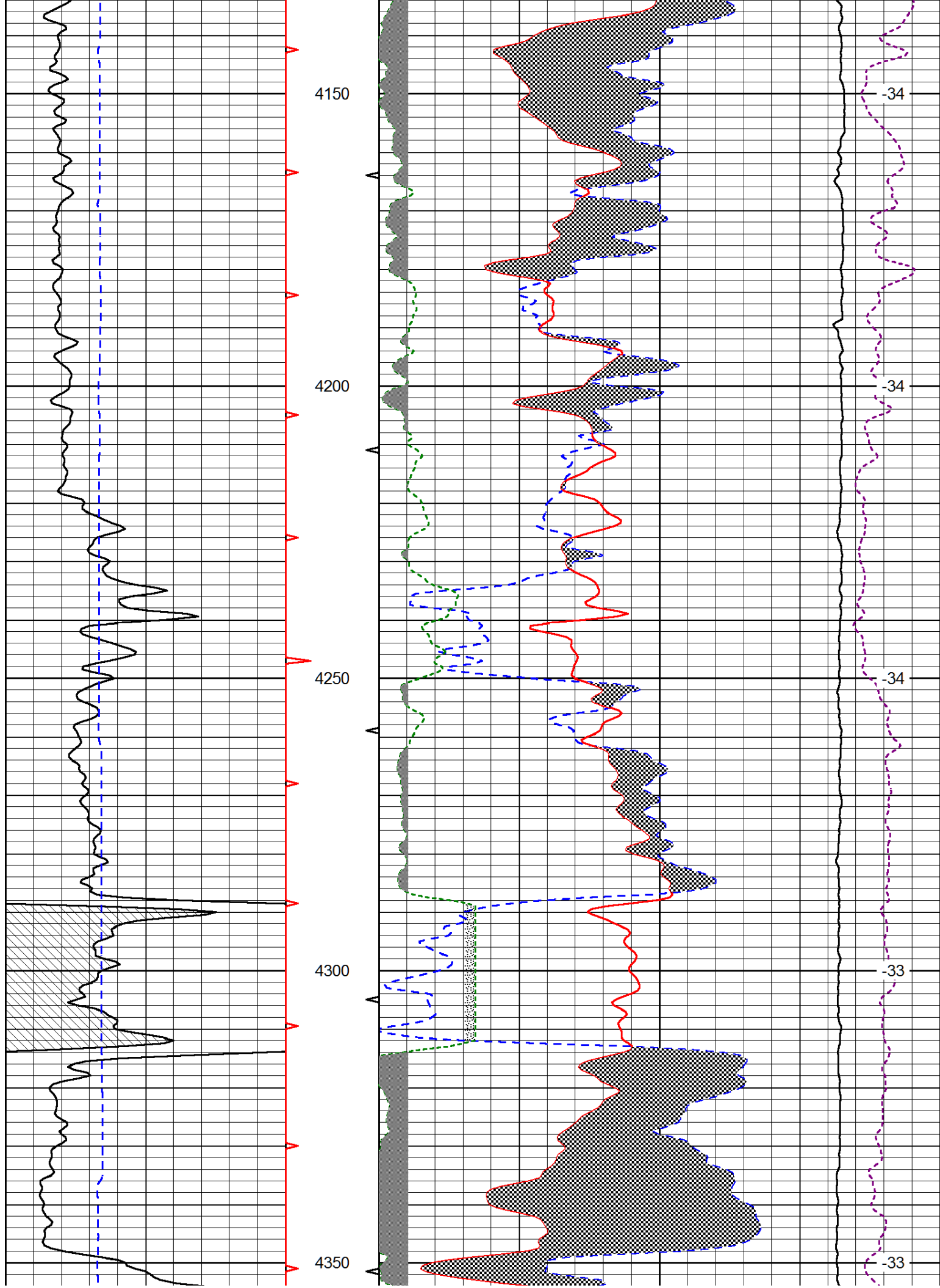


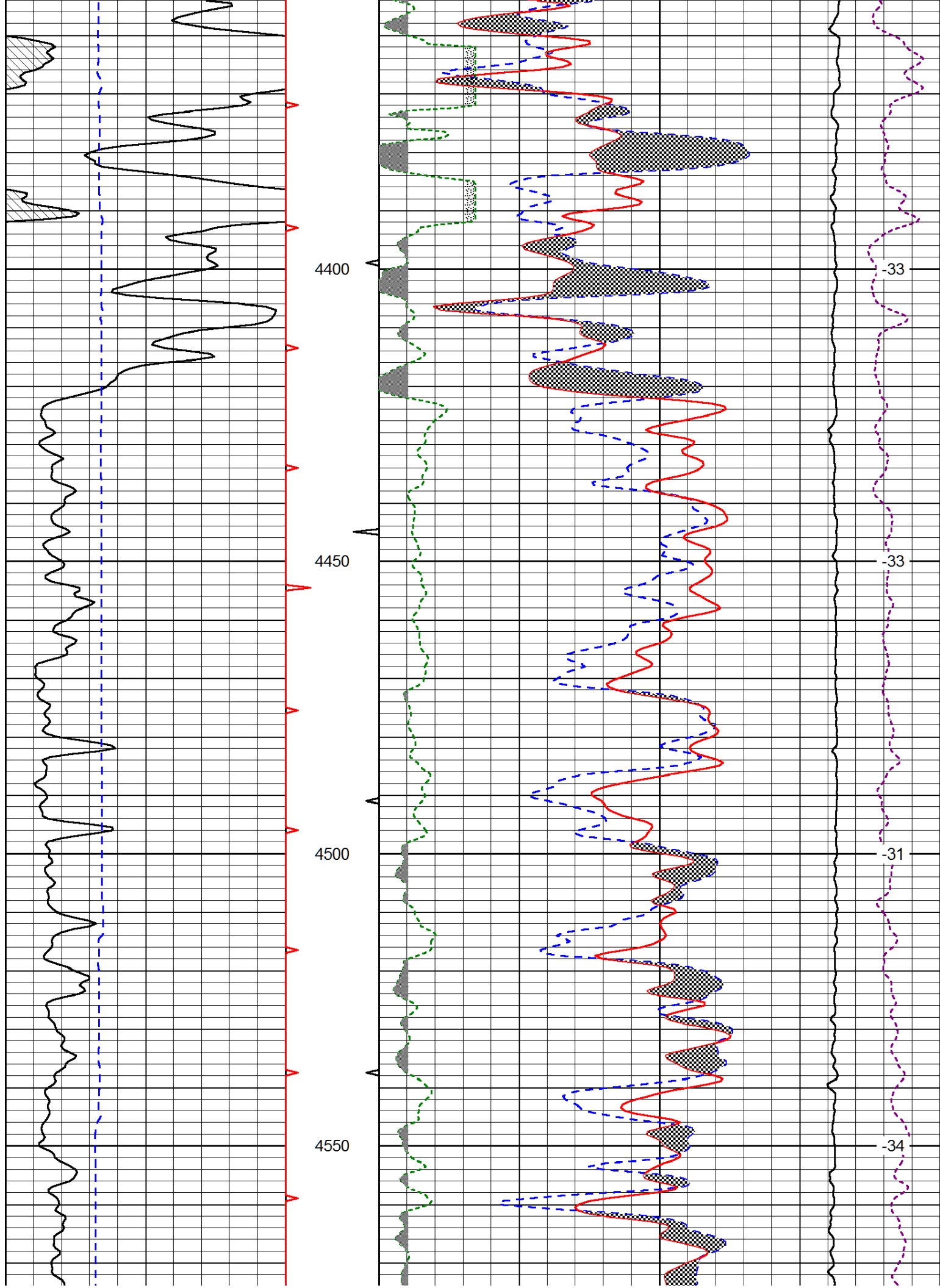


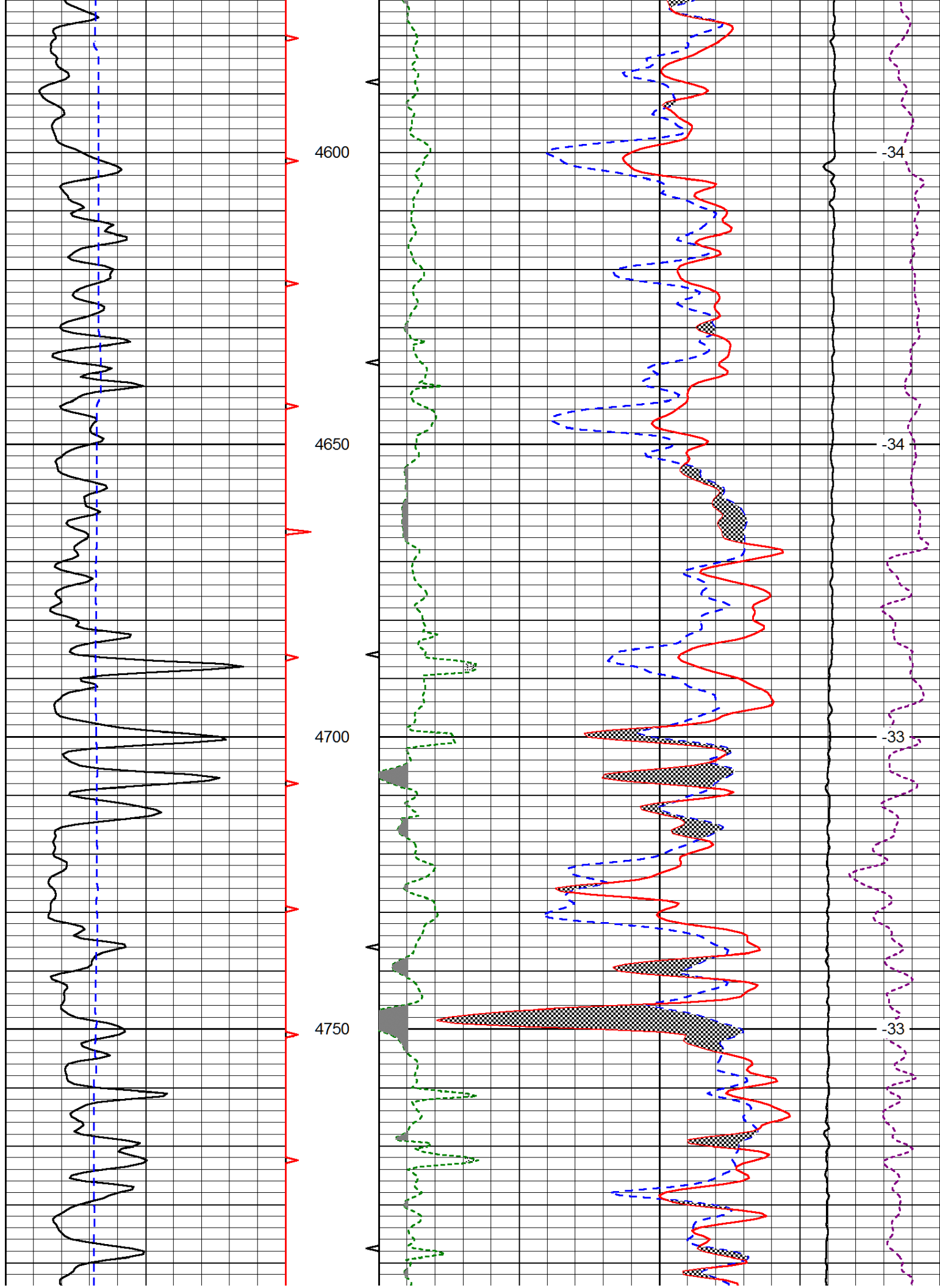


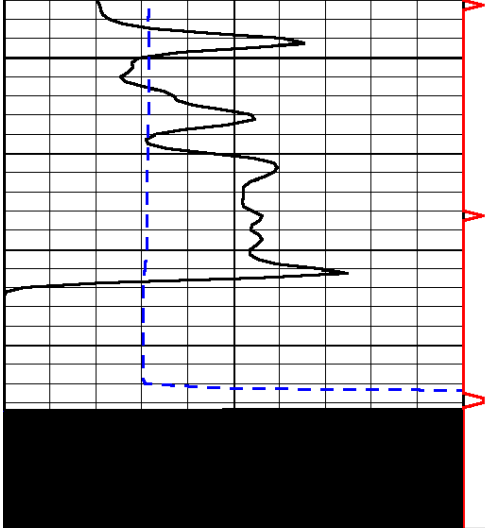






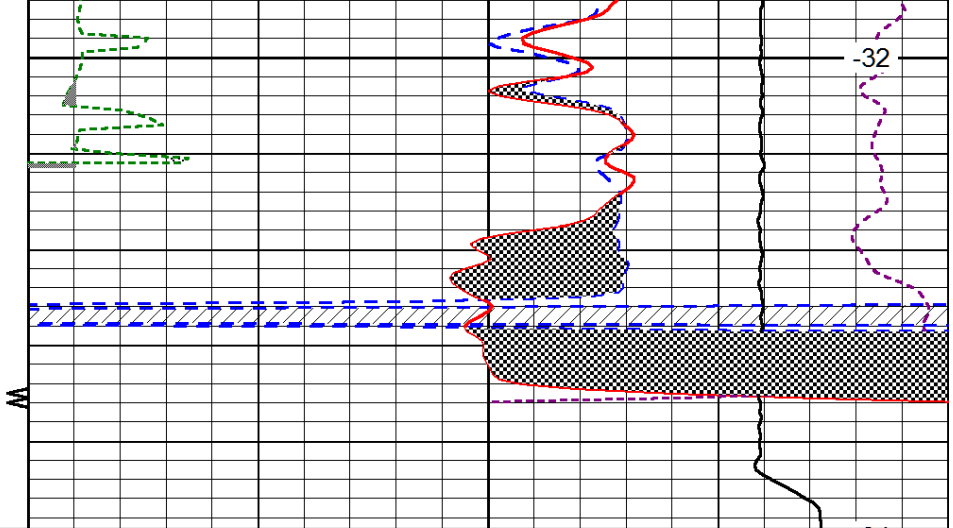






4800

0	Gamma Ray	150
6	Caliper (GAPI)	16



-32

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