



Pioneer Energy Services

Dual Compensated Porosity Log

Company Kantor Oil Company, LLC
Well Carmicheal "A" #3
Field Burton
County Reno **State** Kansas
Location NW/NW SW/4
 2970' FNL / 330' FWL
Other Services DILMEL

Sec: 10 **Twp:** 24S **Rge:** 4W
Elevation 1469
Log Measured From Kelly Bushing **10 Ft. Above Perm. Datum**
Drilling Measured From Kelly Bushing

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Date 1/3/2013
Elevation 1479
K.B. D.F. G.L. 1469

Run Number One
Type Log CNL / CDL
Depth Driller 3918
Depth Logger 3916
Bottom Logged Interval 3895
Top Logged Interval 2300
Type Fluid In Hole Chemical
Salinity, PPM CL 1600
Density 9.3
Level Full
Max. Rec. Temp. F 115
Operating Rig Time 4 Hours
Equipment -- Location 15 Hays
Recorded By R. Barnhart
Witnessed By Larry Ressler Roger Martin

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	307	8.625	23#	00	307
Two	7.875	307	TD				

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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

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 (785) 625-3858

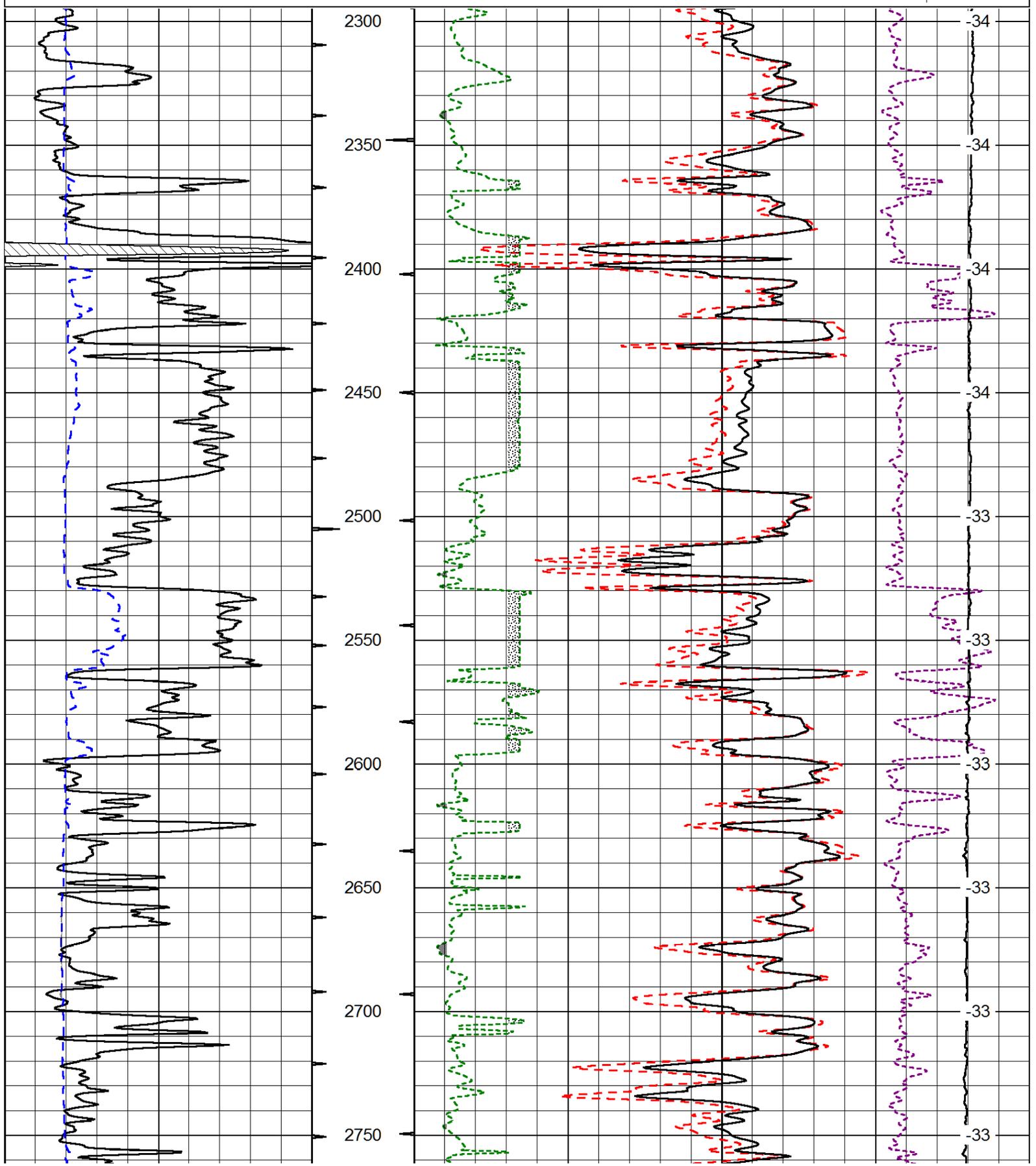
 Haven, KS:
 E edge: 4N on Haven Rd., 1E on Longview, 1 1/2N on Victory Rd., E into

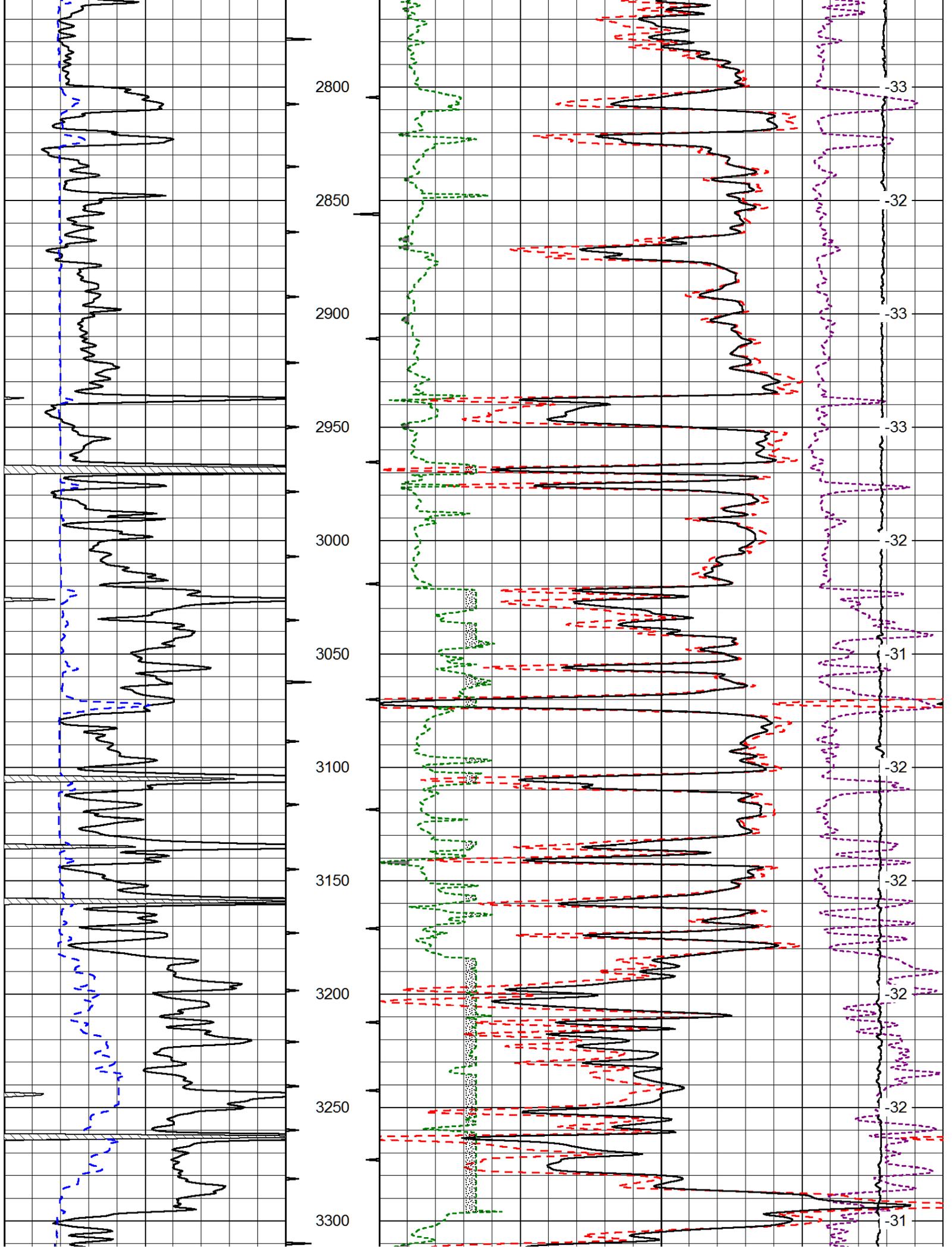
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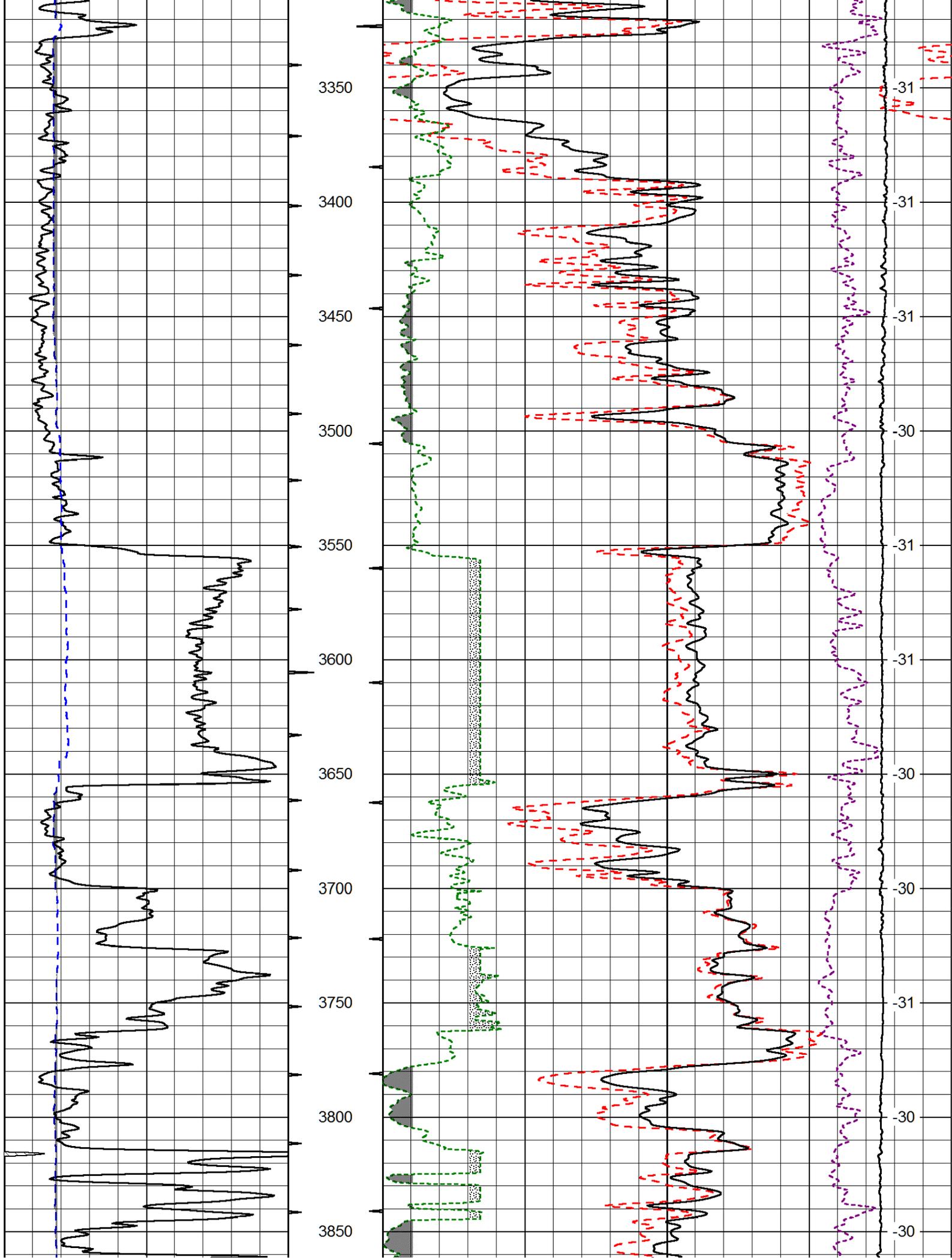
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

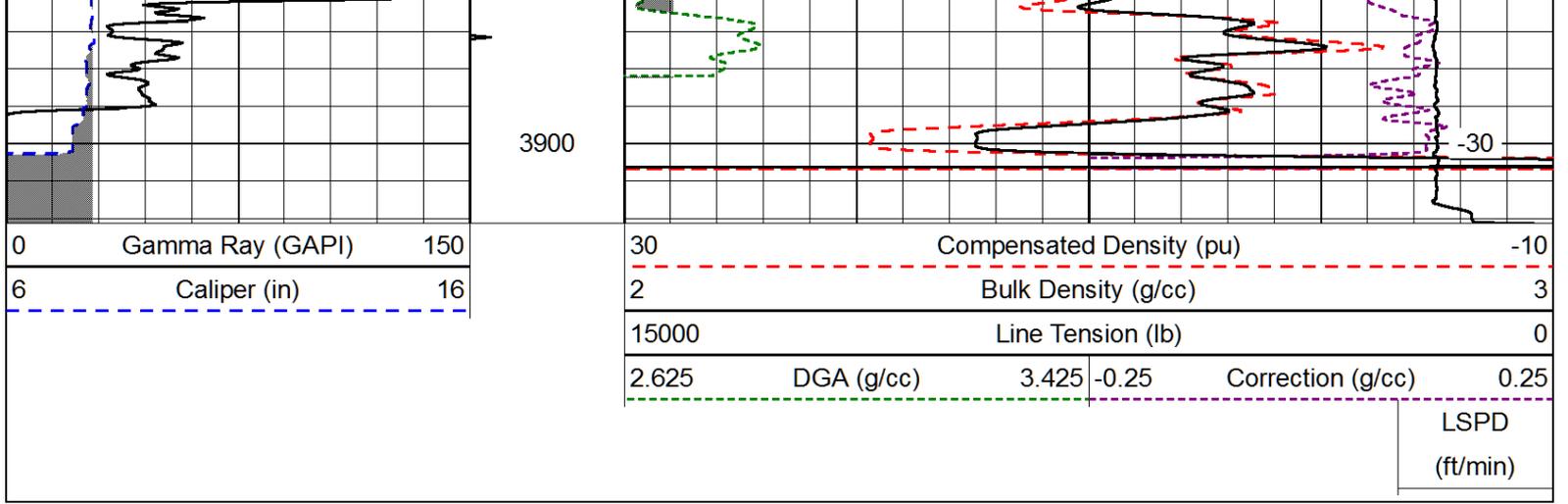
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
			Correction (g/cc)
			0.25

LSPD
(ft/min)

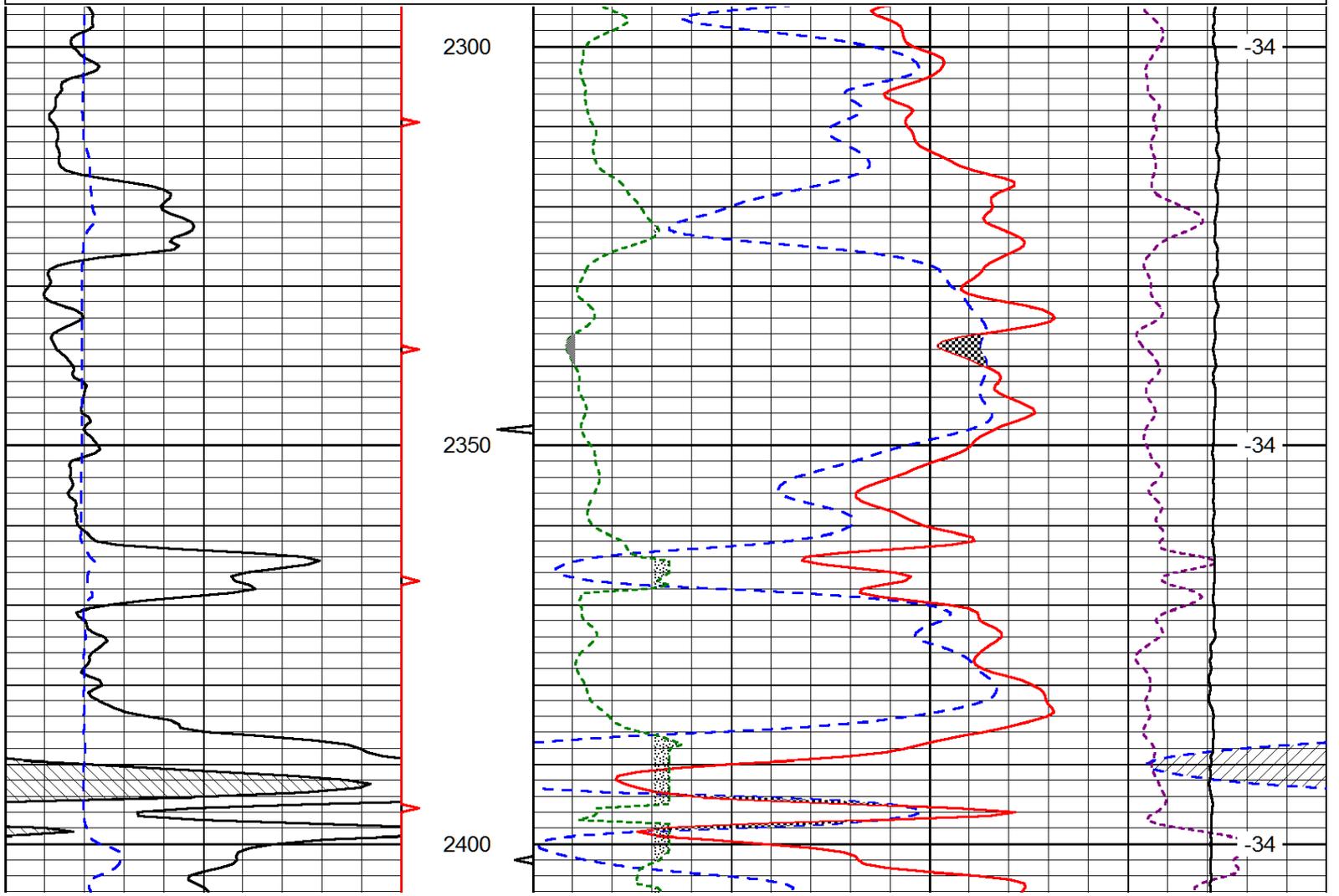
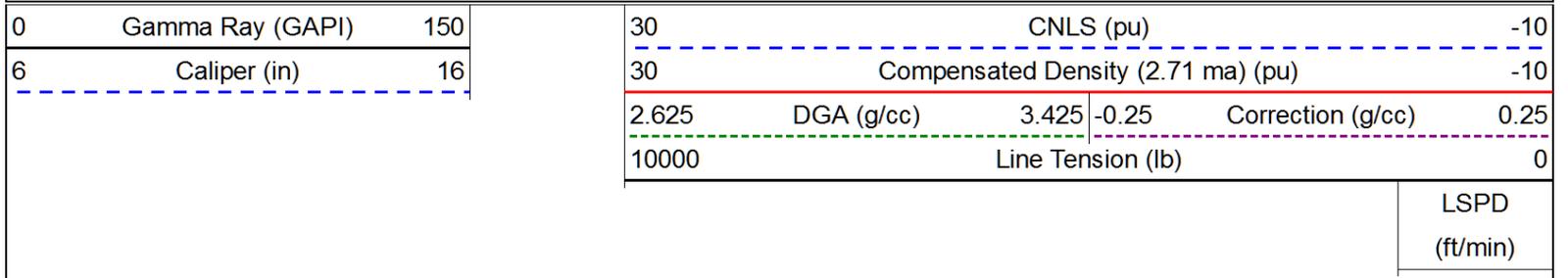


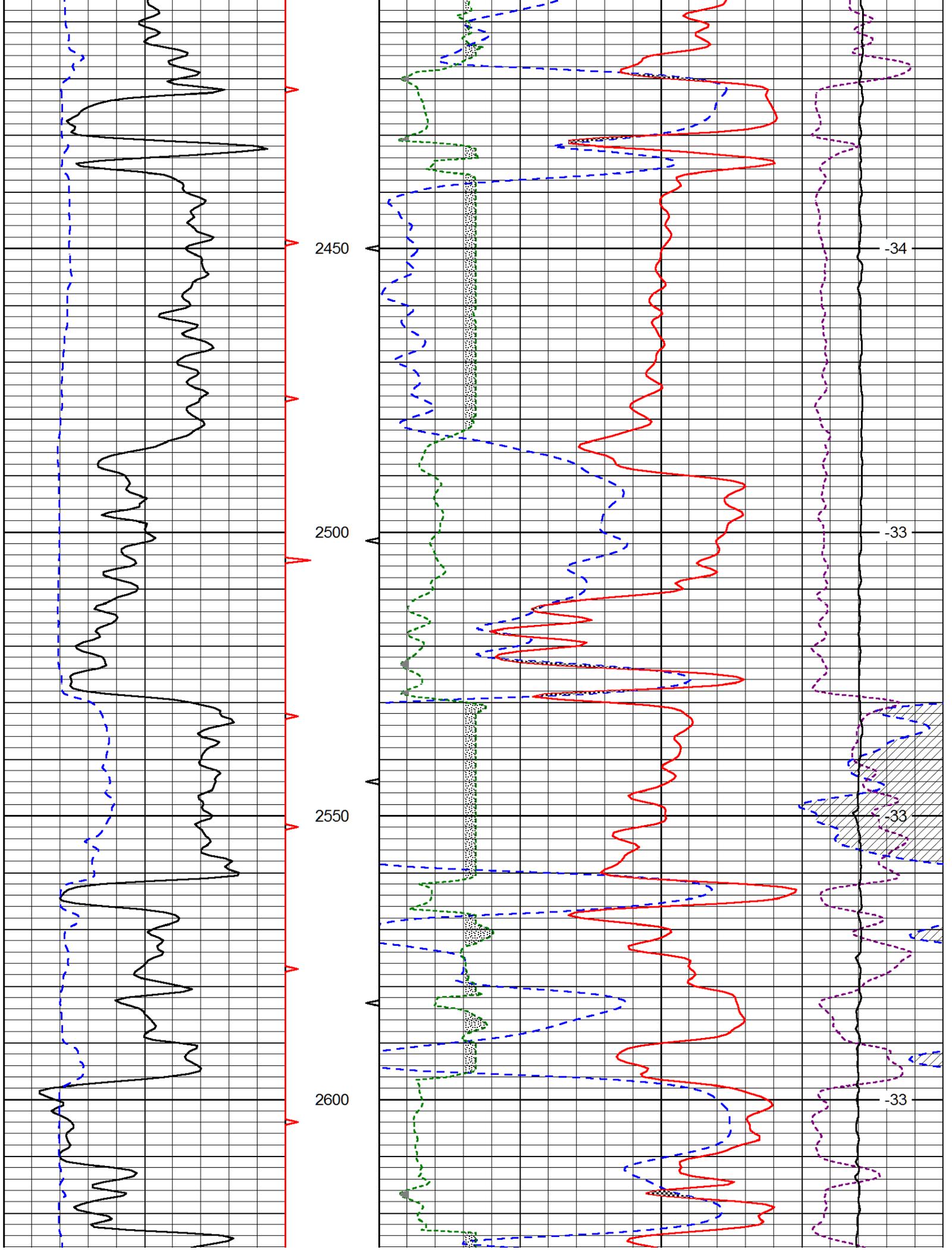


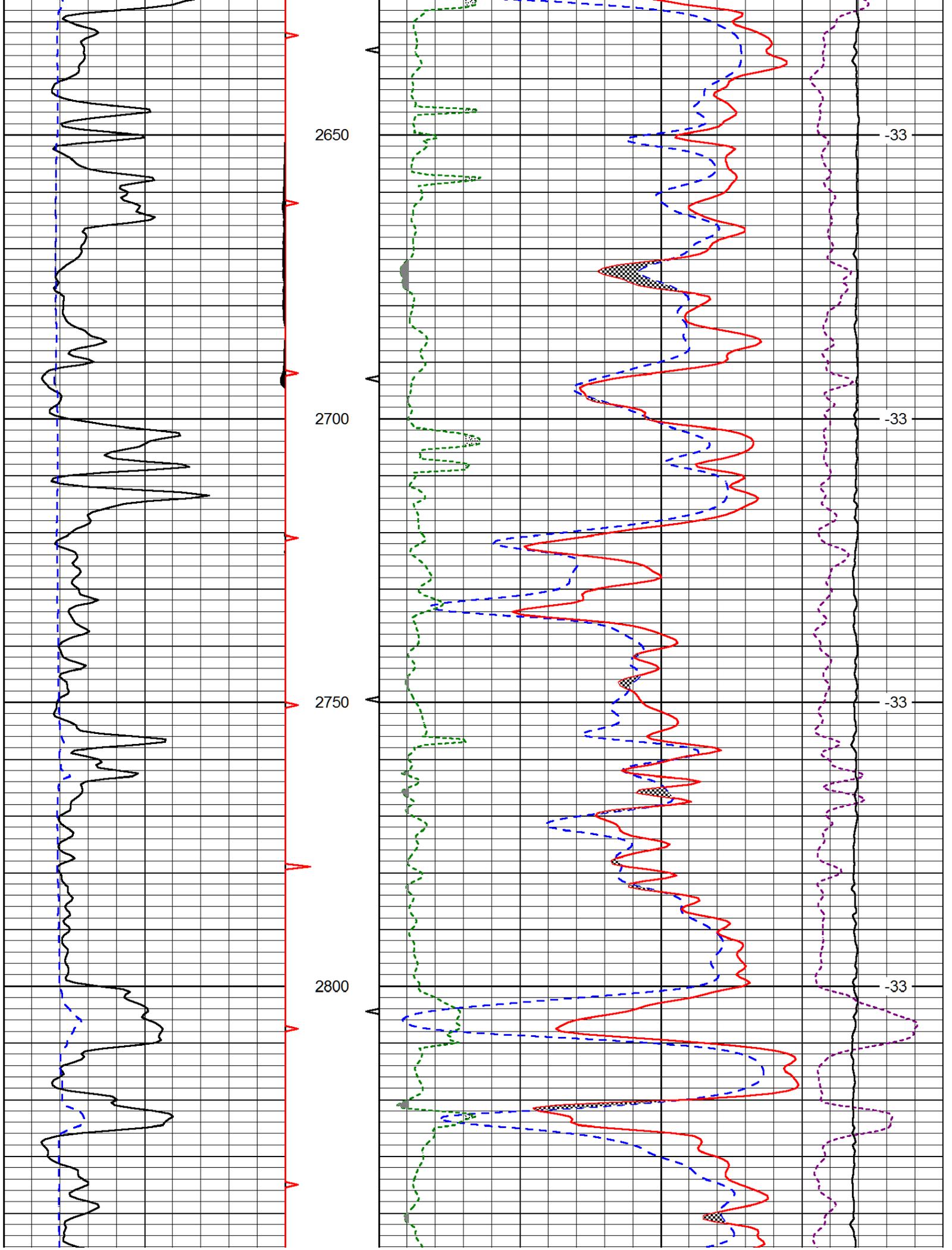


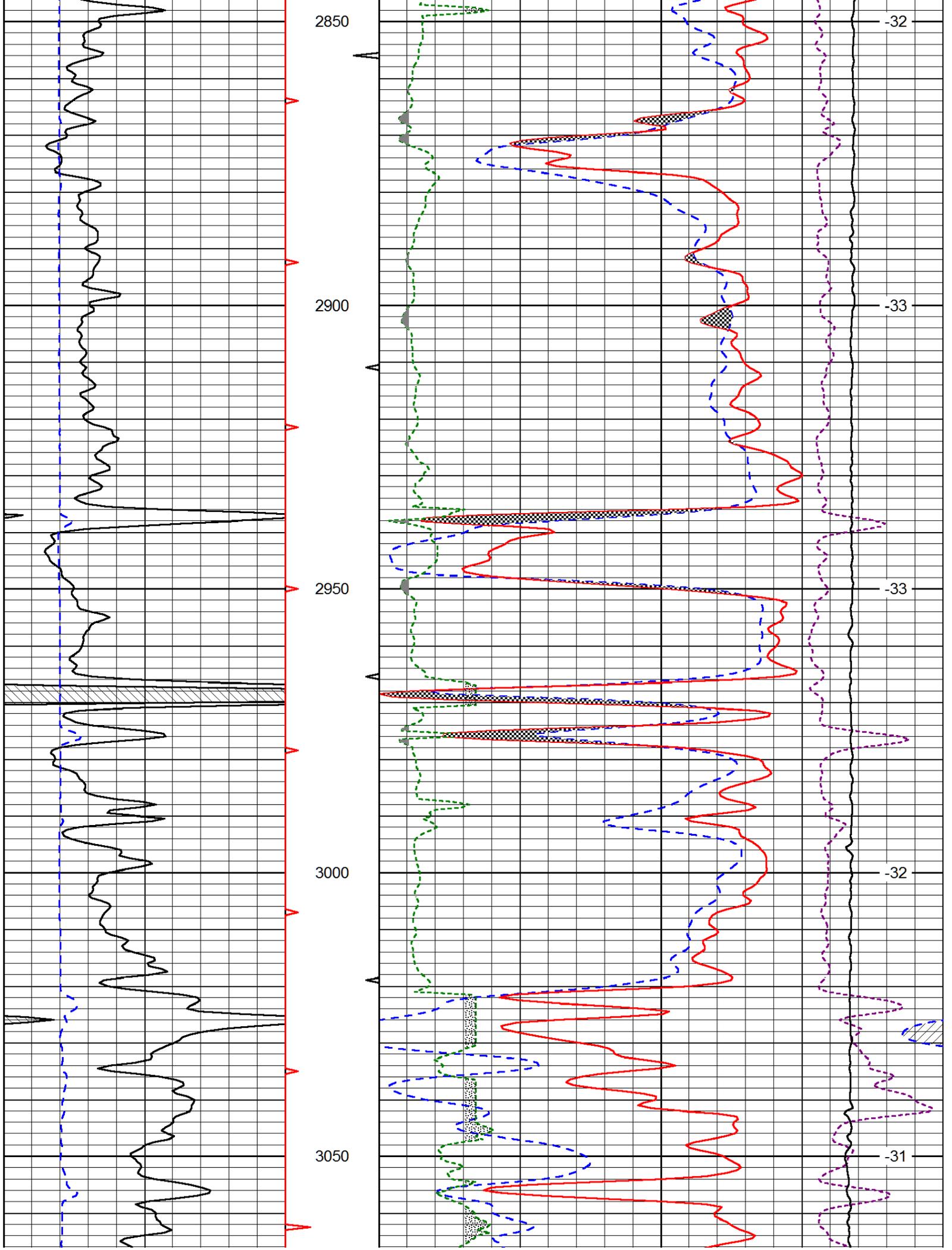


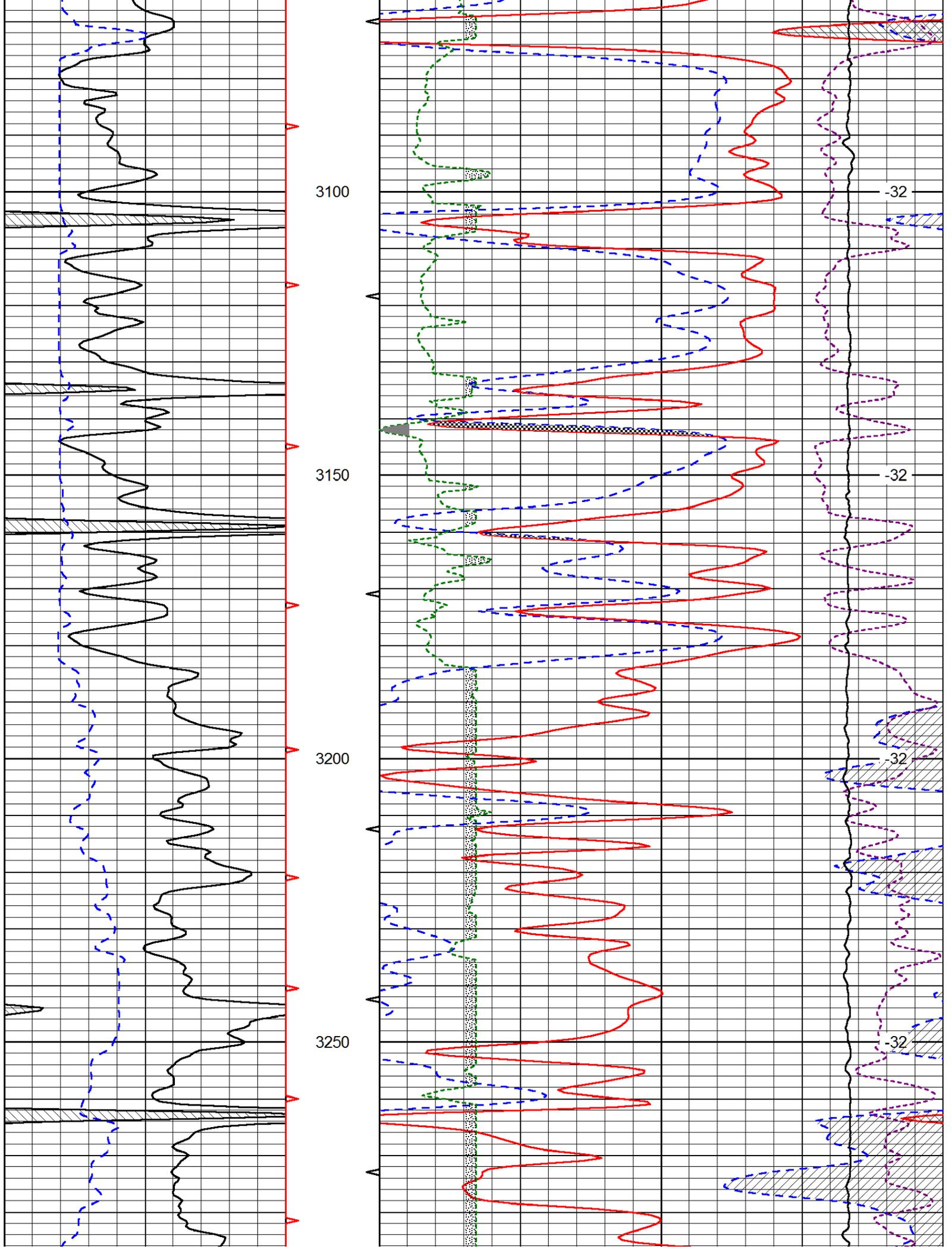
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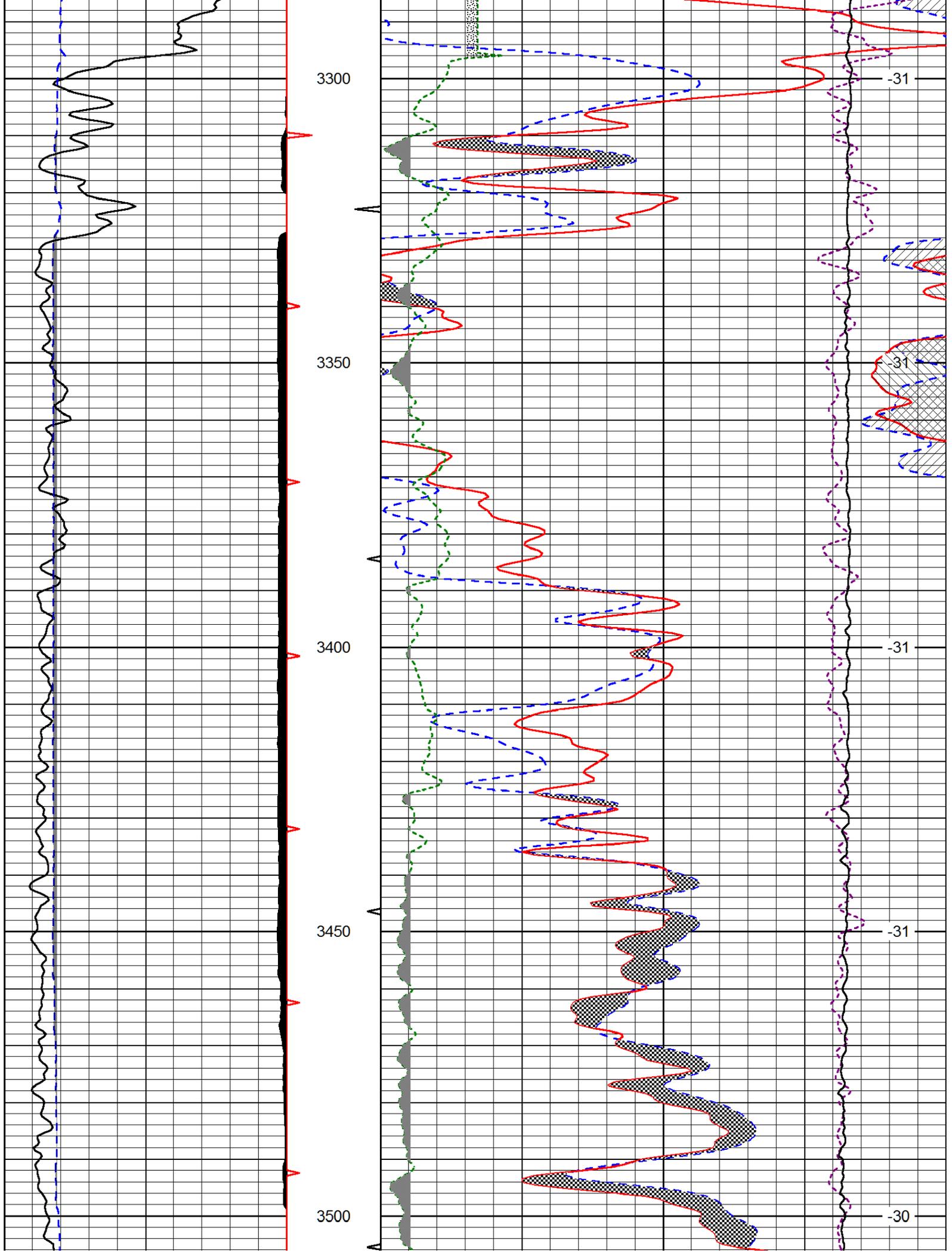


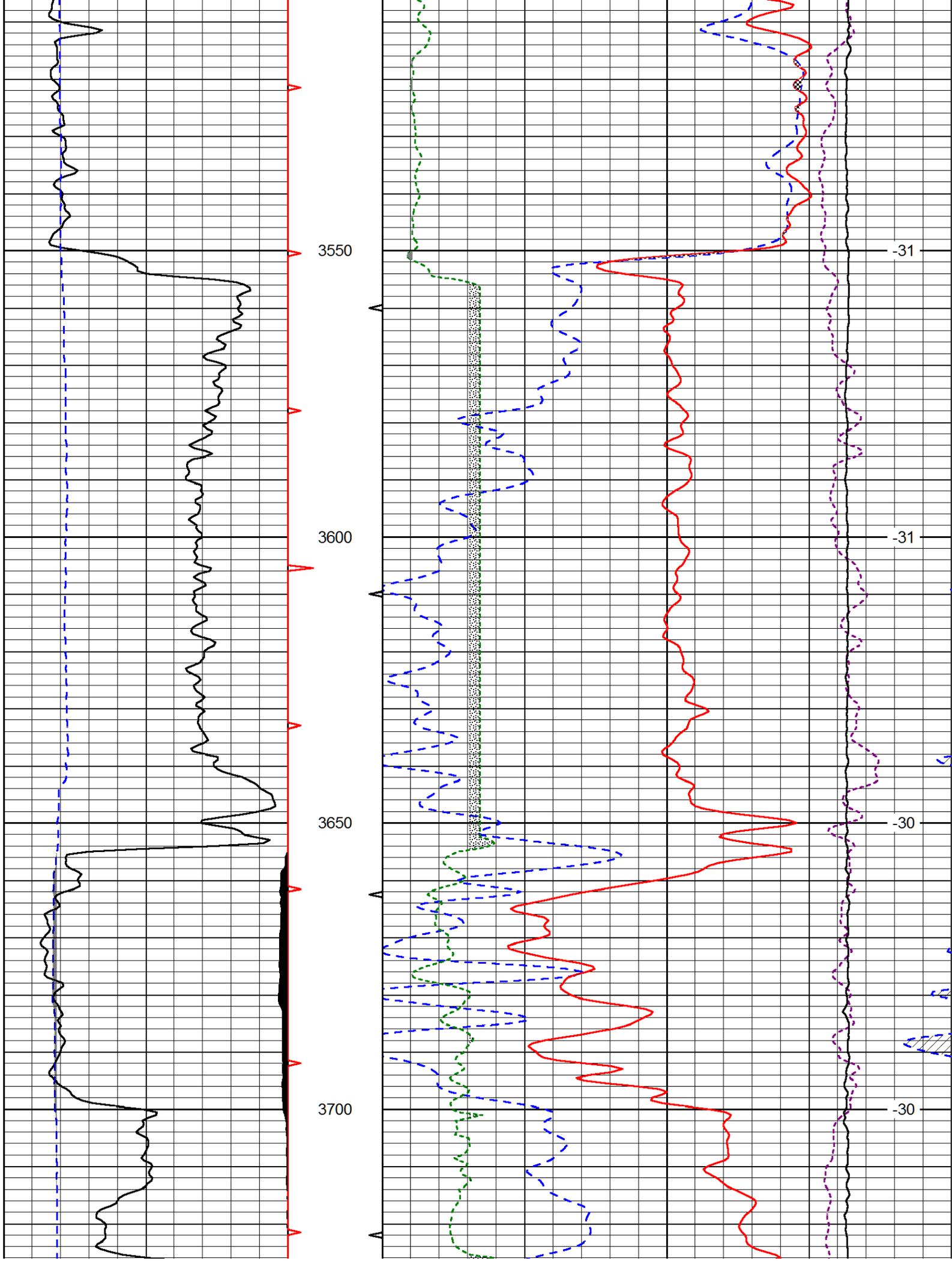


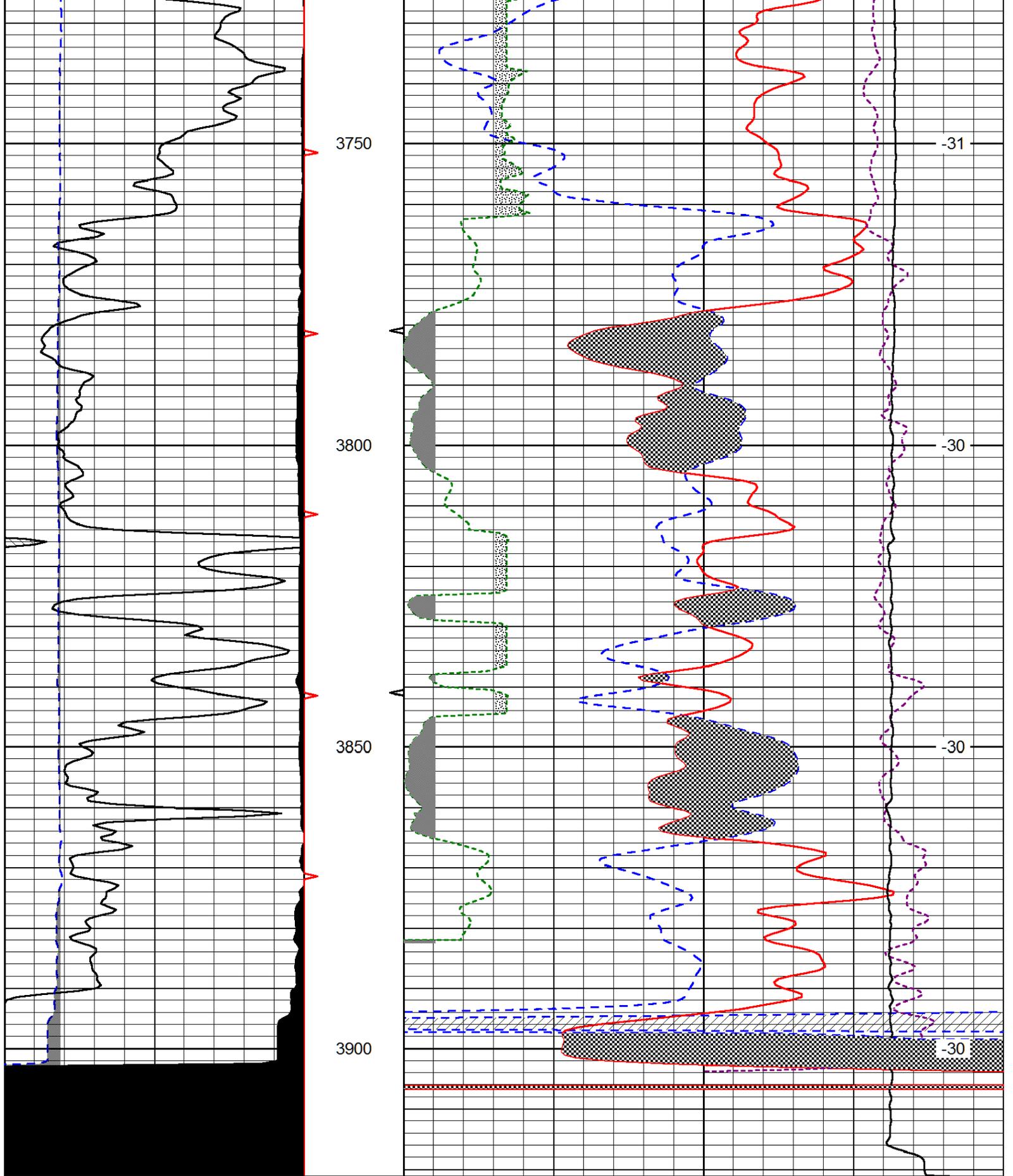












0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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	

