



Pioneer Energy Services

Dual Compensated Porosity Log

15-053-21,321-00-00

API No.

Company Bird Dog Oil, LLC
Well Stoltenberg-Svoboda #3-17
Field Stoltenberg
County Ellsworth
State Kansas

Location 1600' FNL & 1940' FEL

Other Services
DIL
MEL/BHCS

Sec: 17 **Twp:** 16S **Rge:** 10W
Permanent Datum Ground Level **Elevation** 1887
Log Measured From Kelly Bushing **8 Ft. Above Perm. Datum**
Drilling Measured From Kelly Bushing

K.B.: 1895
D.F.:
G.L.: 1887

Date 10/29/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3440

Depth Logger 3442

Bottom Logged Interval 3421

Top Logged Interval 2650

Type Fluid In Hole Chemical

Salinity, PPM CL 9,100

Density 9.2

Level Full

Max. Rec. Temp. F 110

Operating Rig Time 5 Hours

Equipment -- Location 10 Hays

Recorded By J. Henrickson

Witnessed By Adam Nighswonger

Borehole Record		Casing Record					
Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	407	8.625	24#	00	407
2	7.875	407	3440				

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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.

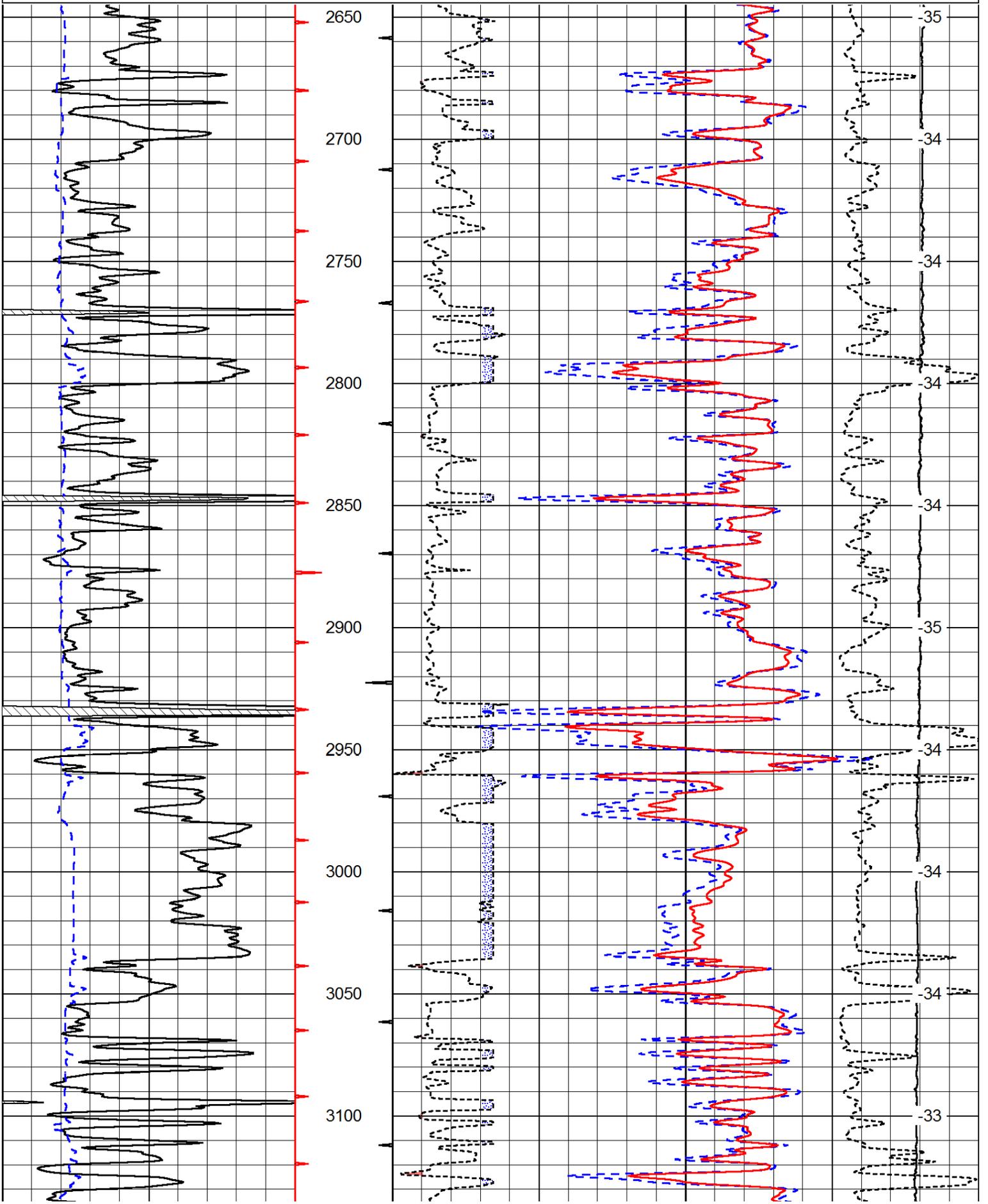
Comments

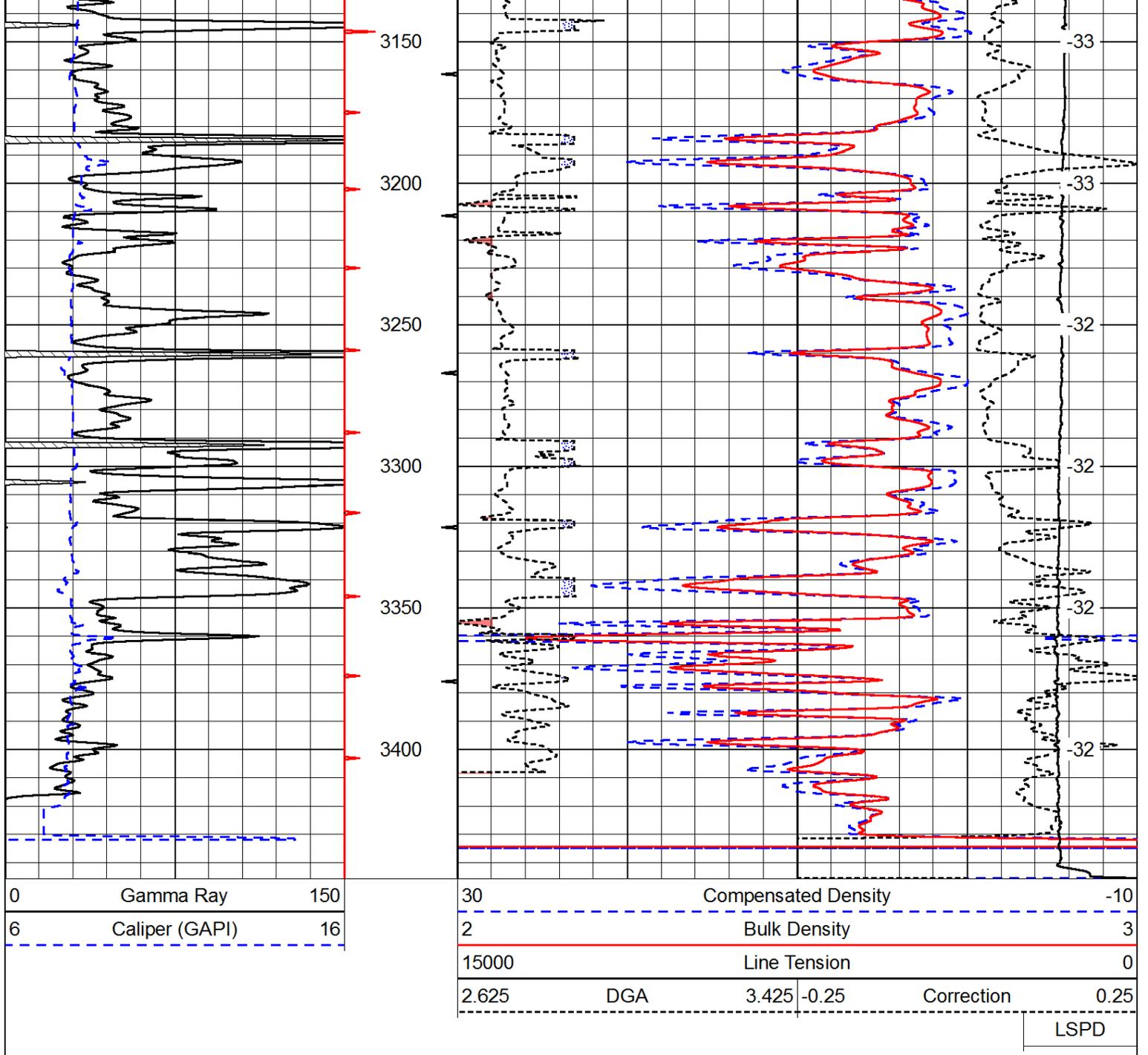
Thank you for using Pioneer Energy Services
www.pioneer.com
 785 625 3858
 Wilson Kansas
 12 South to P Rd, 2 East, 1/2 North, West Into

Database File: c:\warrior\data\bird dog_stoltenberg-svoboda #3-17\birddog_stoltenberg_svoboda_3_17hd.db
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 Presentation Format: cdl
 Dataset Creation: Wed Oct 29 22:28:27 2014
 Charted by: Depth in Feet scaled 1:600

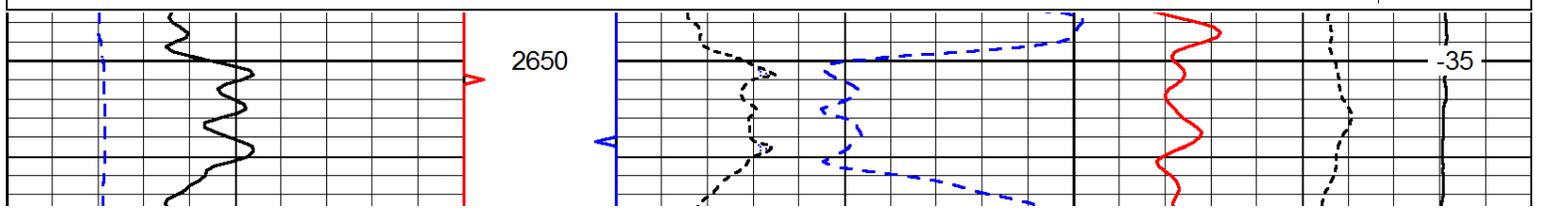
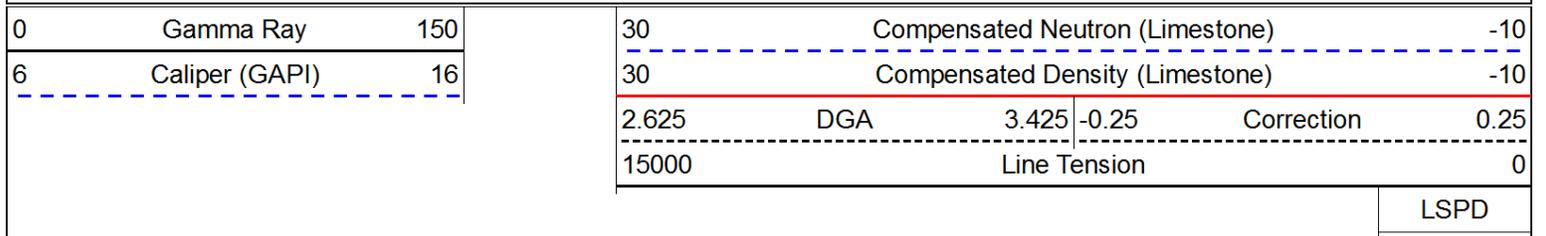
0	Gamma Ray	150
6	Caliper (GAPI)	16

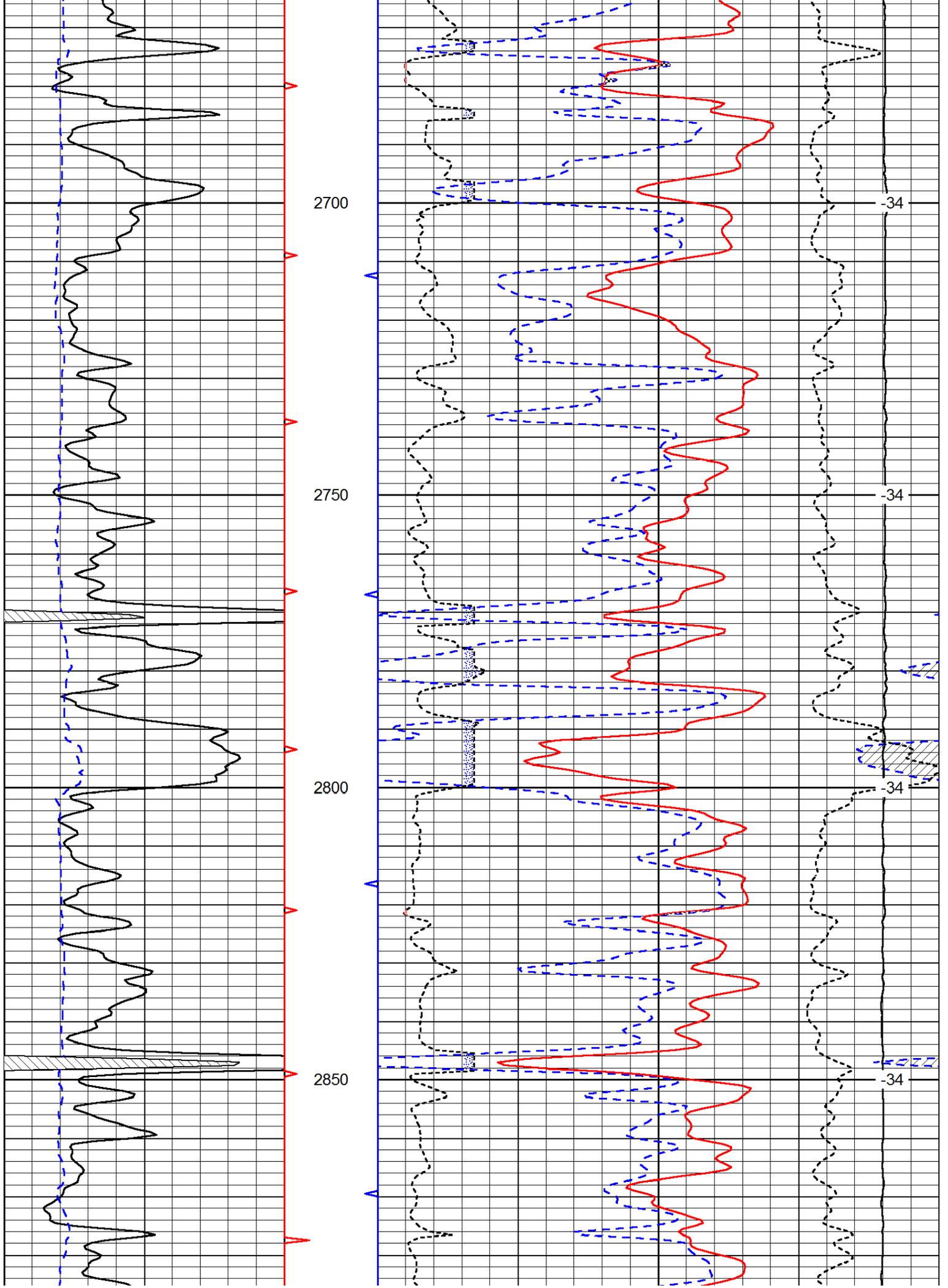
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25

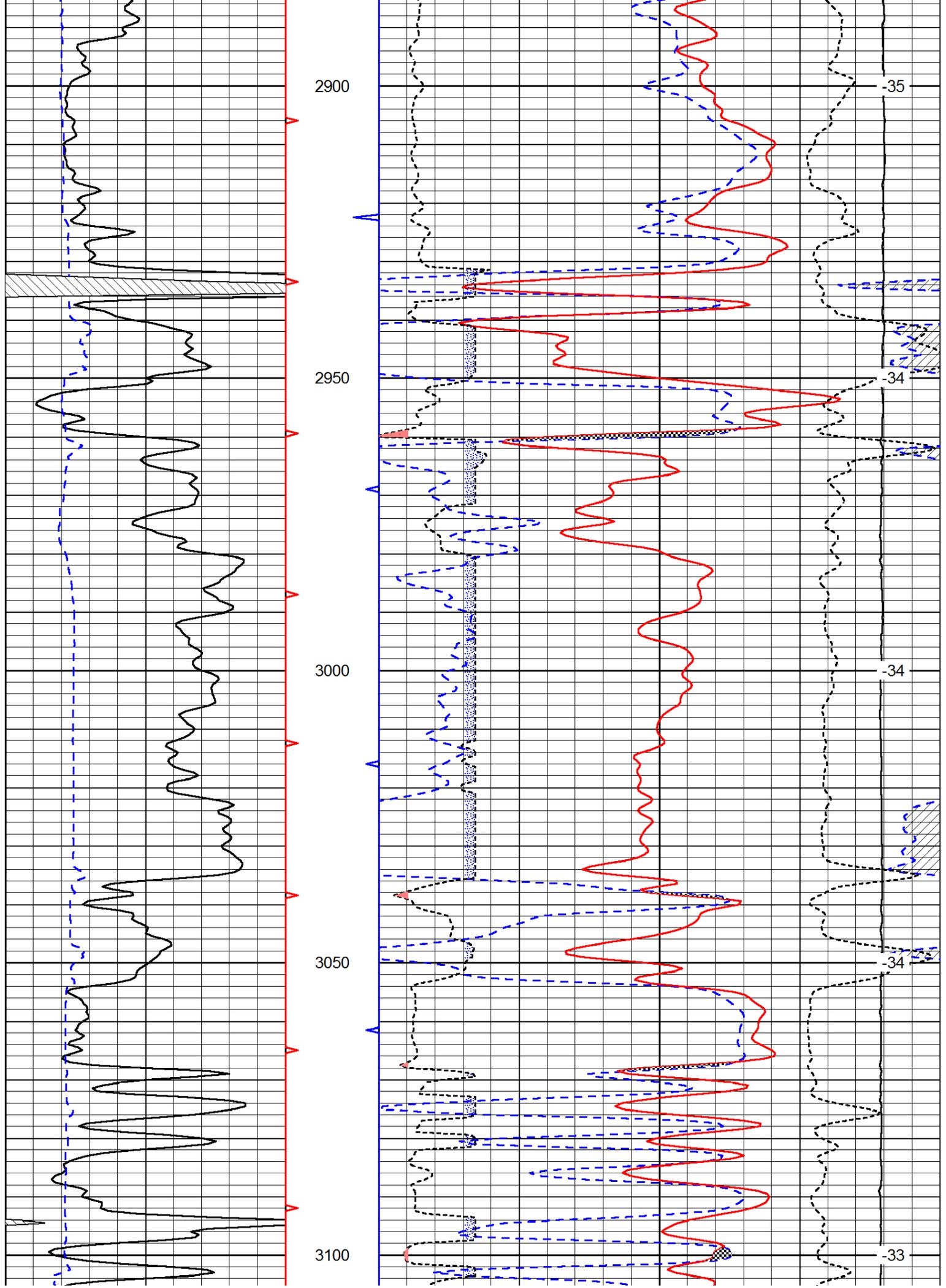


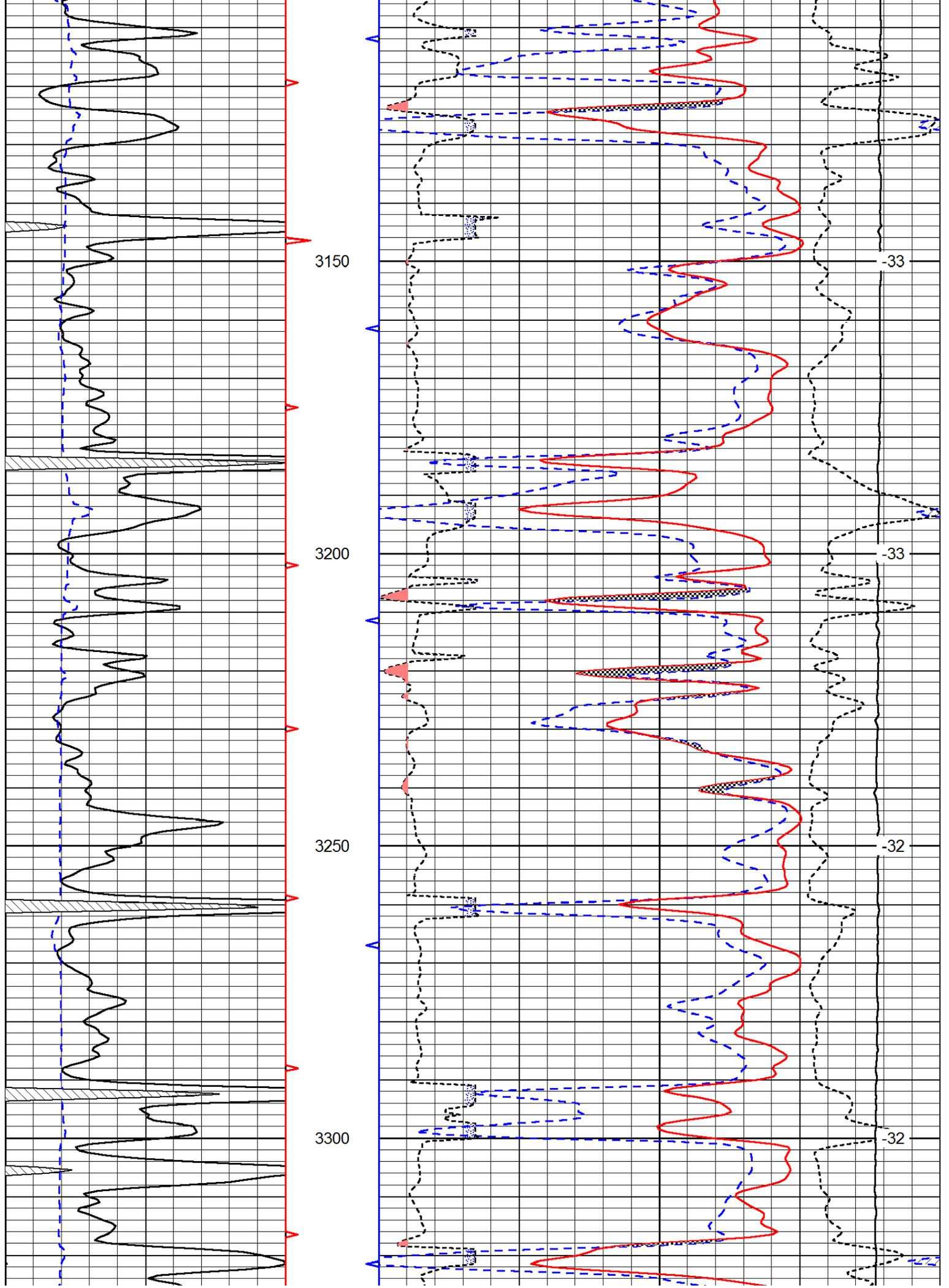


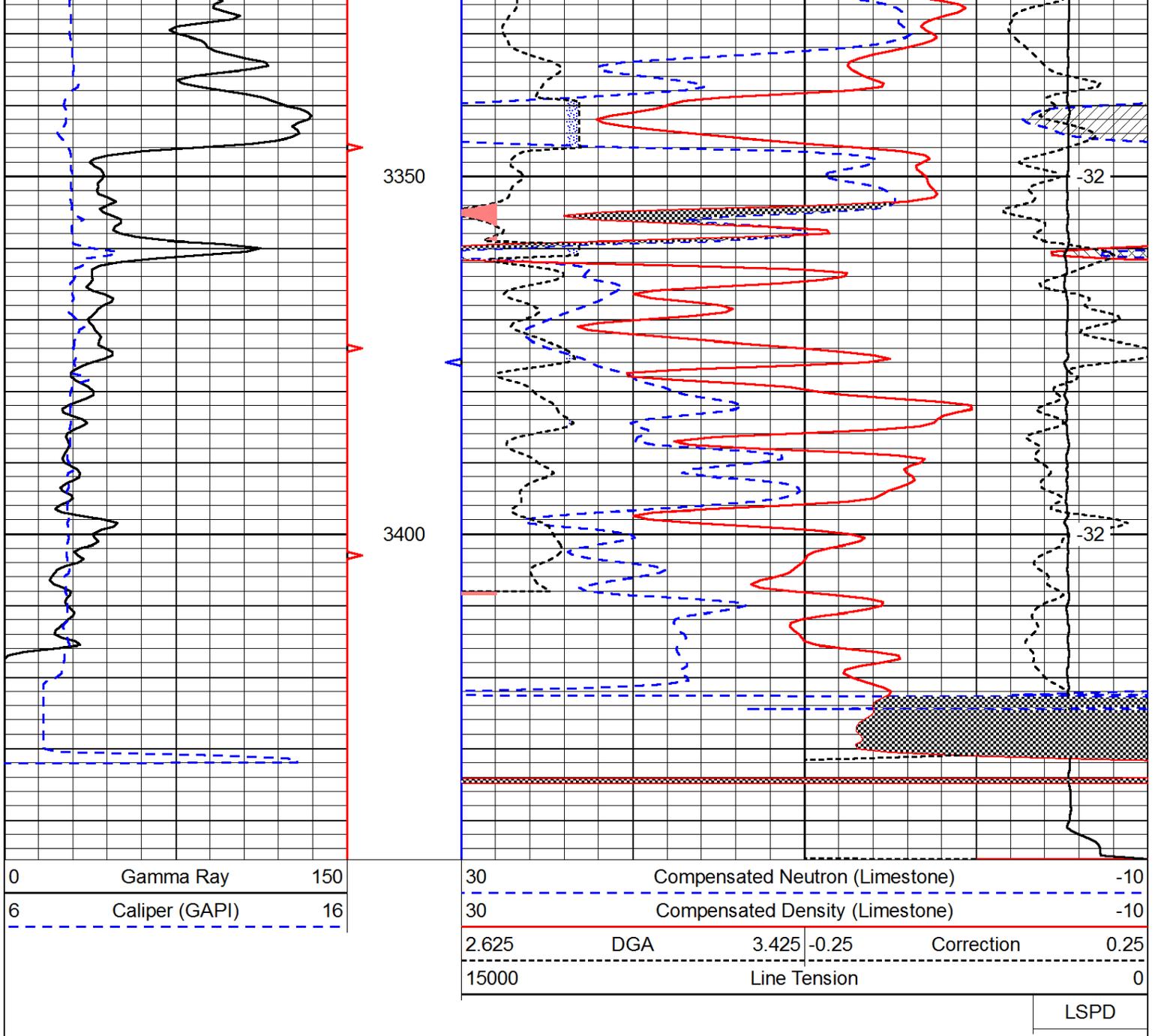
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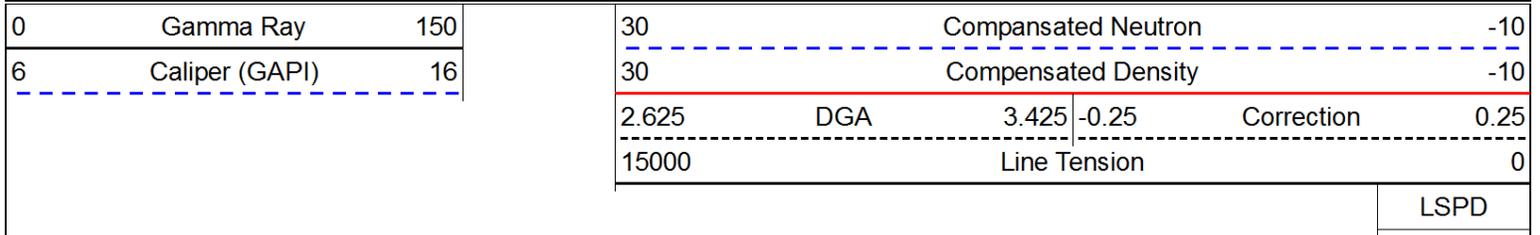


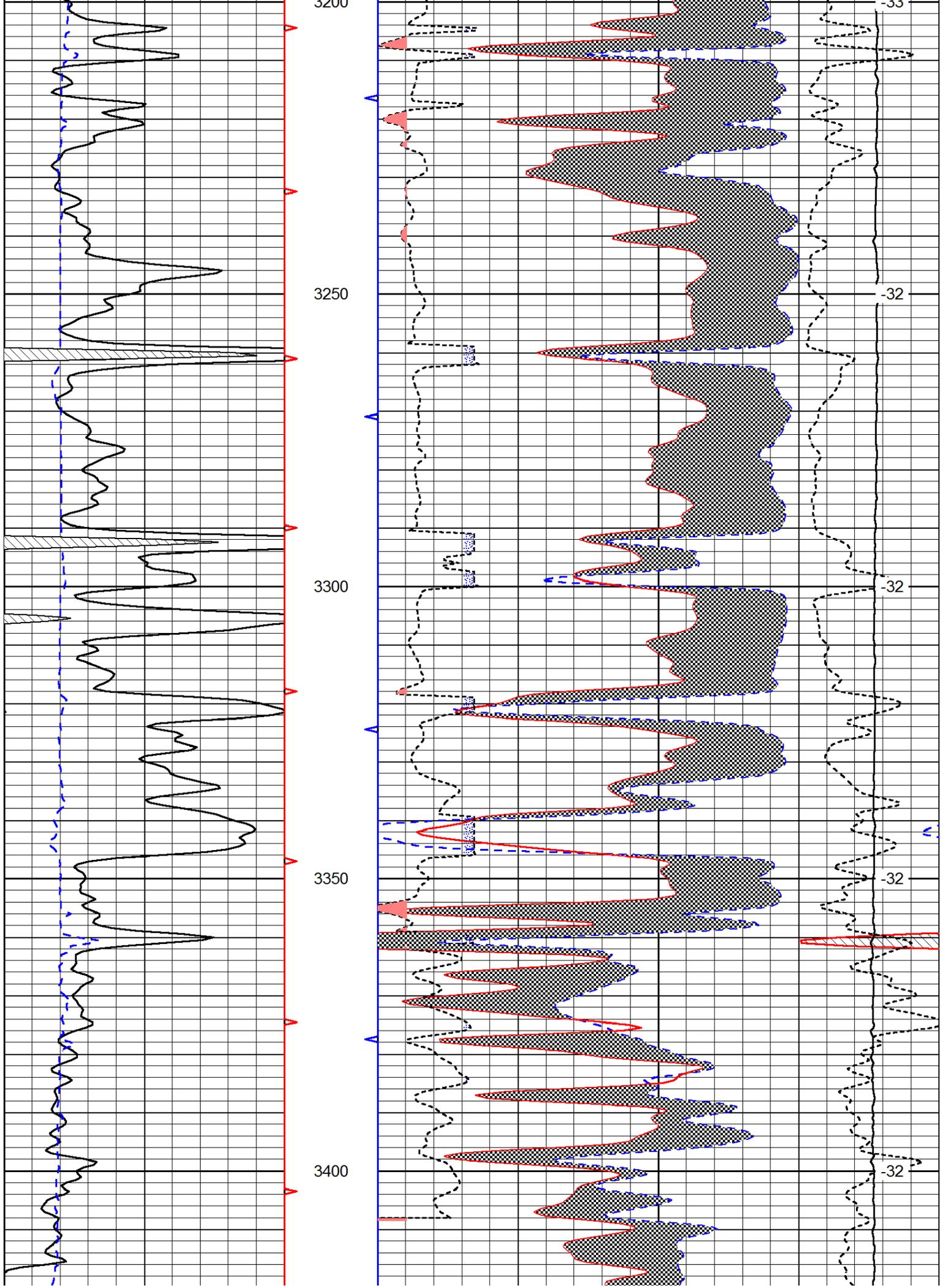


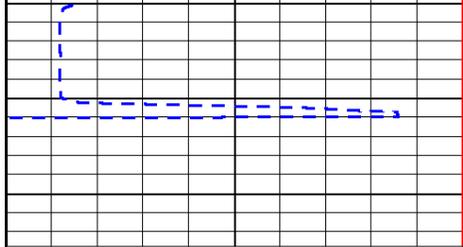


Dolomite Matrix (2.83)

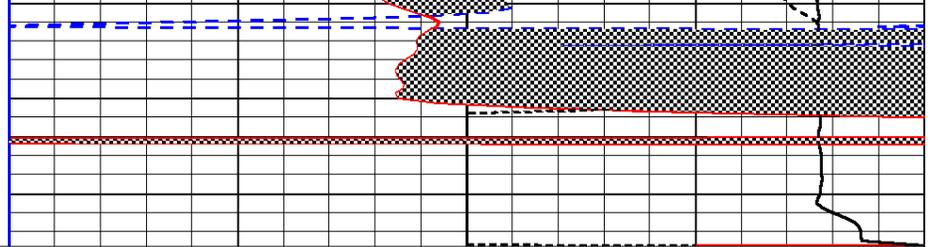
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 Charted by: Depth in Feet scaled 1:240







0	Gamma Ray	150
6	Caliper (GAPI)	16



30	Compensated Neutron	-10			
30	Compensated Density	-10			
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension	0			

LSPD