



Pioneer Energy Services

Dual Compensated Porosity Log

15-009-26,011-00-00

API No.

Company **American Warrior, Inc.**
 Well **Tempero # 8-23**
 Field **Sanford**
 County **Barton** State **Kansas**

Location
1703' FSL & 918' FEL
 Sec: **23** Twp: **17S** Rge: **14W**

Other Services
 DIL
 MEL

Permanent Datum Ground Level Elevation 1905
 Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elevation
 K.B. 1913
 D.F.
 G.L. 1905

Date	8/19/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	3500
Depth Logger	3503
Bottom Logged Interval	3482
Top Logged Interval	2800
Type Fluid In Hole	Chemical
Salinity, PPM CL	5800
Density	8.9
Level	Full
Max. Rec. Temp. F	111
Operating Rig Time	4 Hours
Equipment -- Location	15 Hays
Recorded By	D. Kerr
Witnessed By	Jim Musgrove

Borehole Record		Casing Record	
Run No.	Bit From To	Size	Wgt. Wgt.
1	12.25 00	8.625	24#
2	7.875 848	3500	

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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

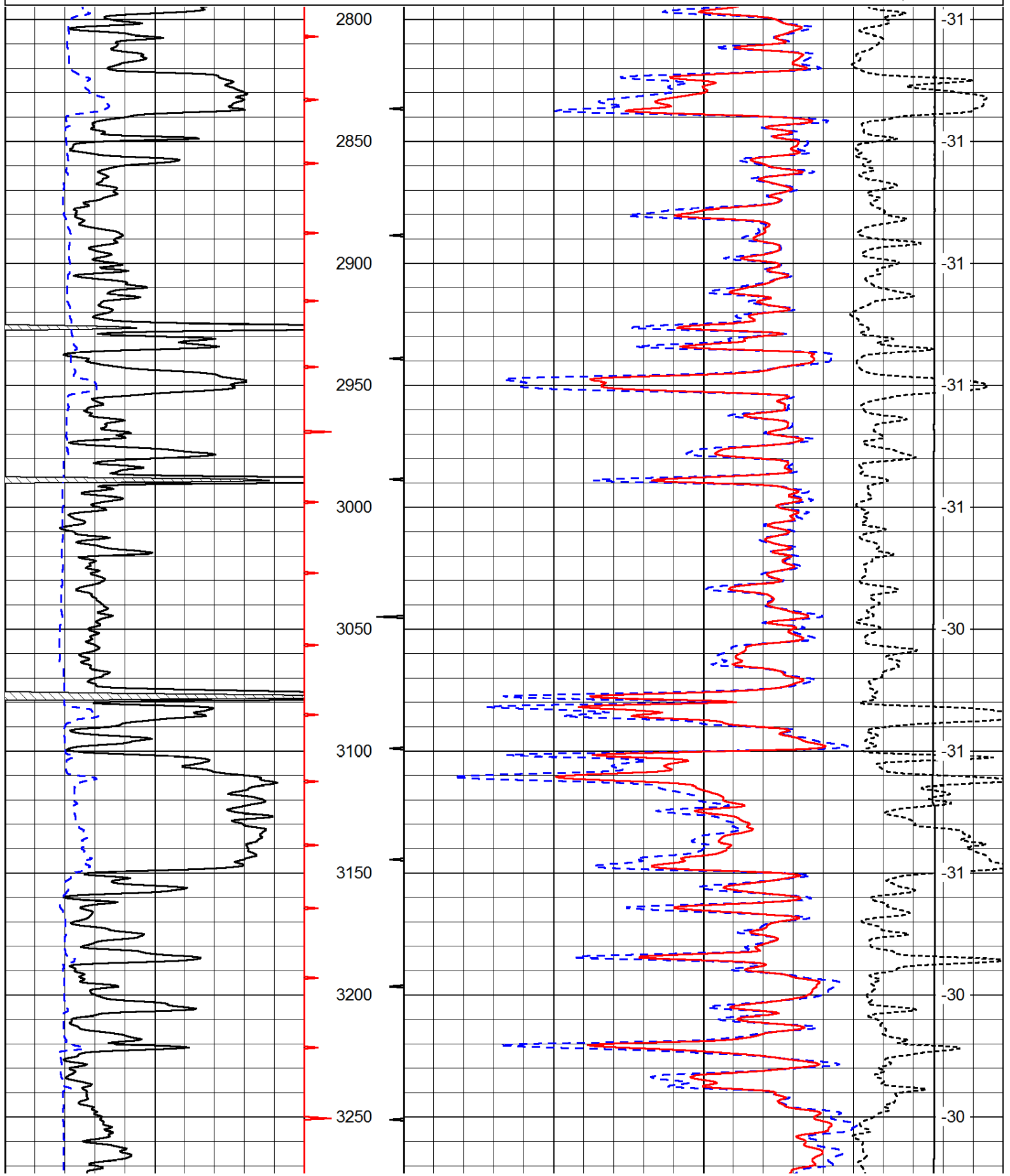
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

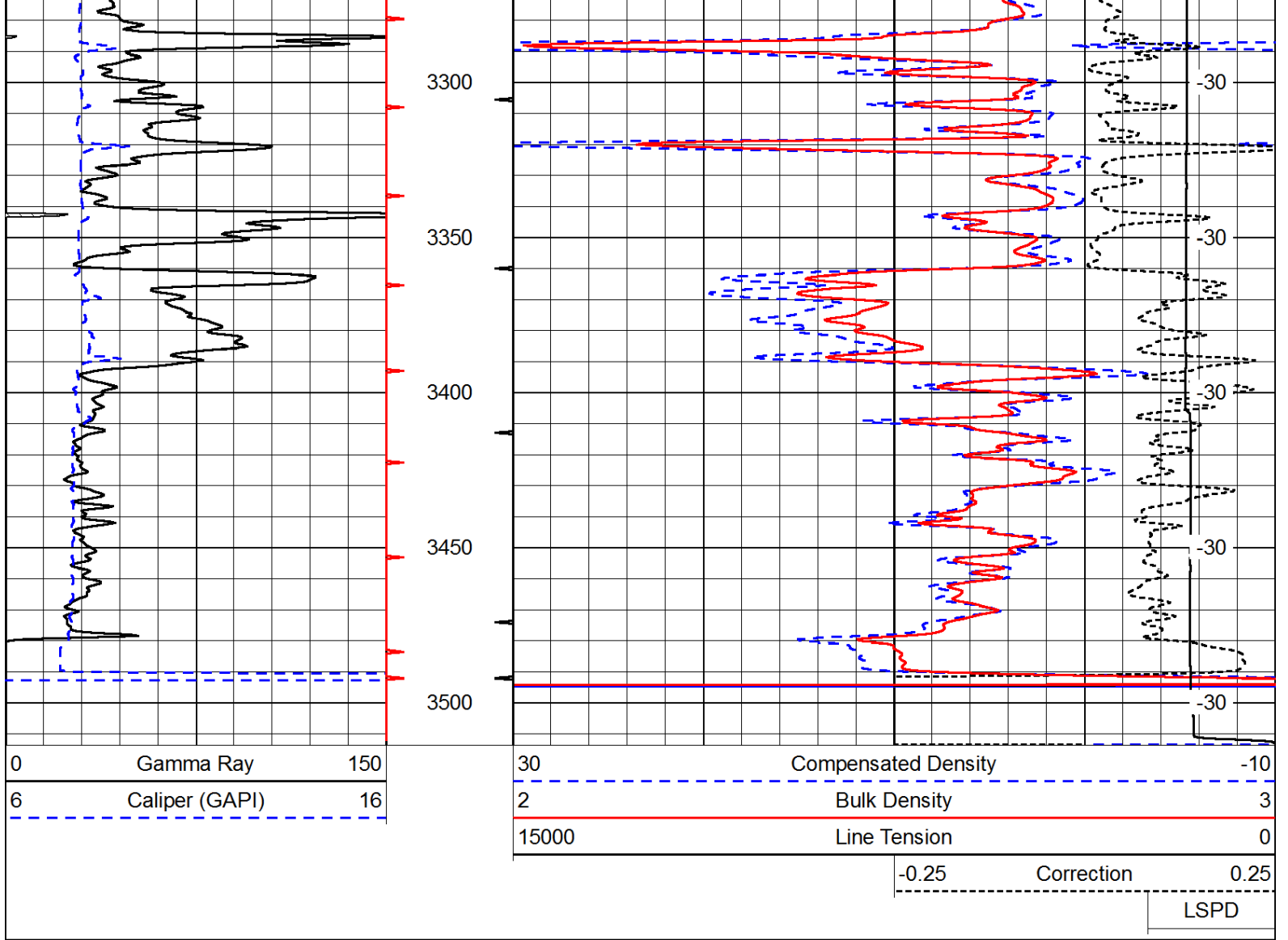
 Hwy. 281 & Hwy. 4 Junction, 1 North, 1/2 East, North Into.

Database File: c:\warrior\data\amwar_tempero # 8-23\americanwarrior_tempero_8-23hd.db
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 Presentation Format: cdl
 Dataset Creation: Tue Aug 19 23:58:15 2014
 Charted by: Depth in Feet scaled 1:600

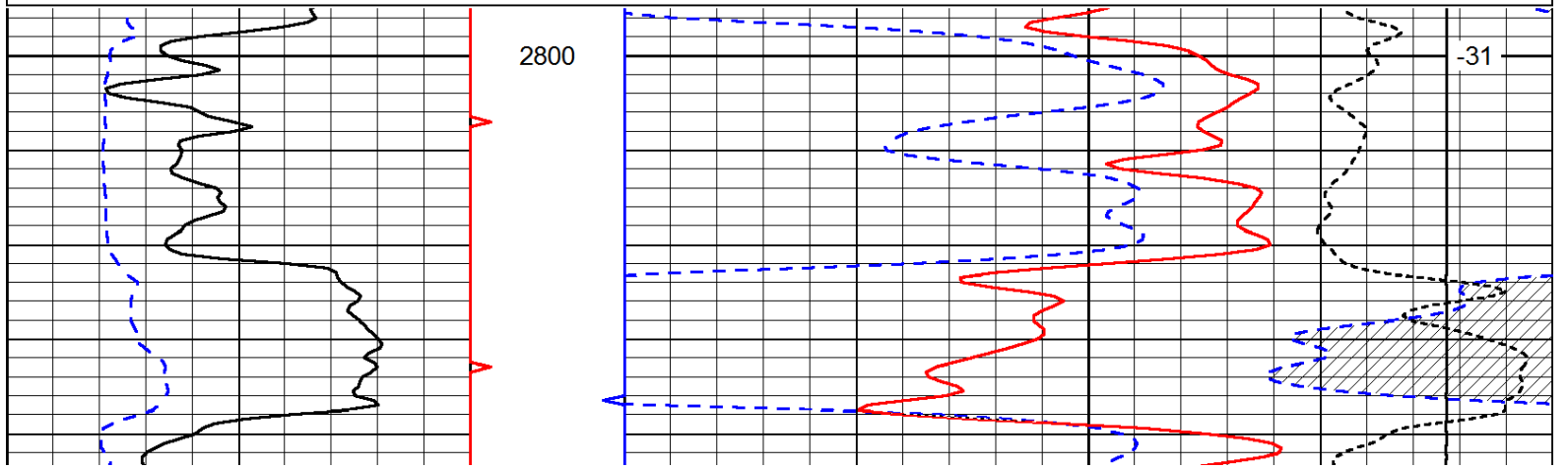
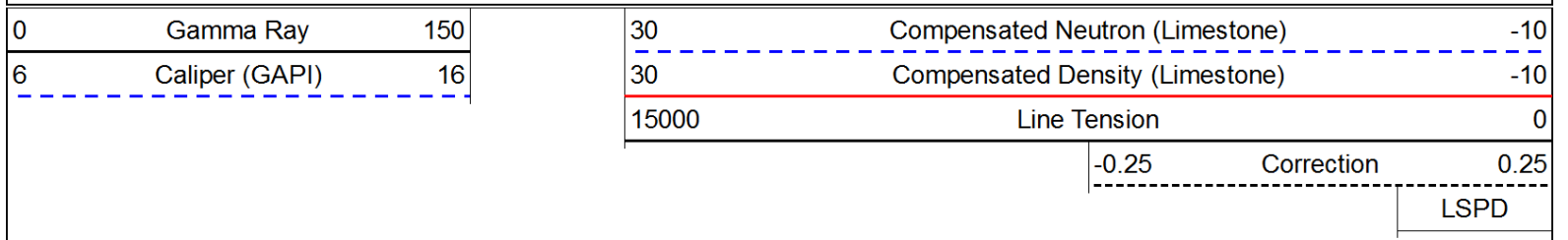
0	Gamma Ray	150
6	Caliper (GAPI)	16

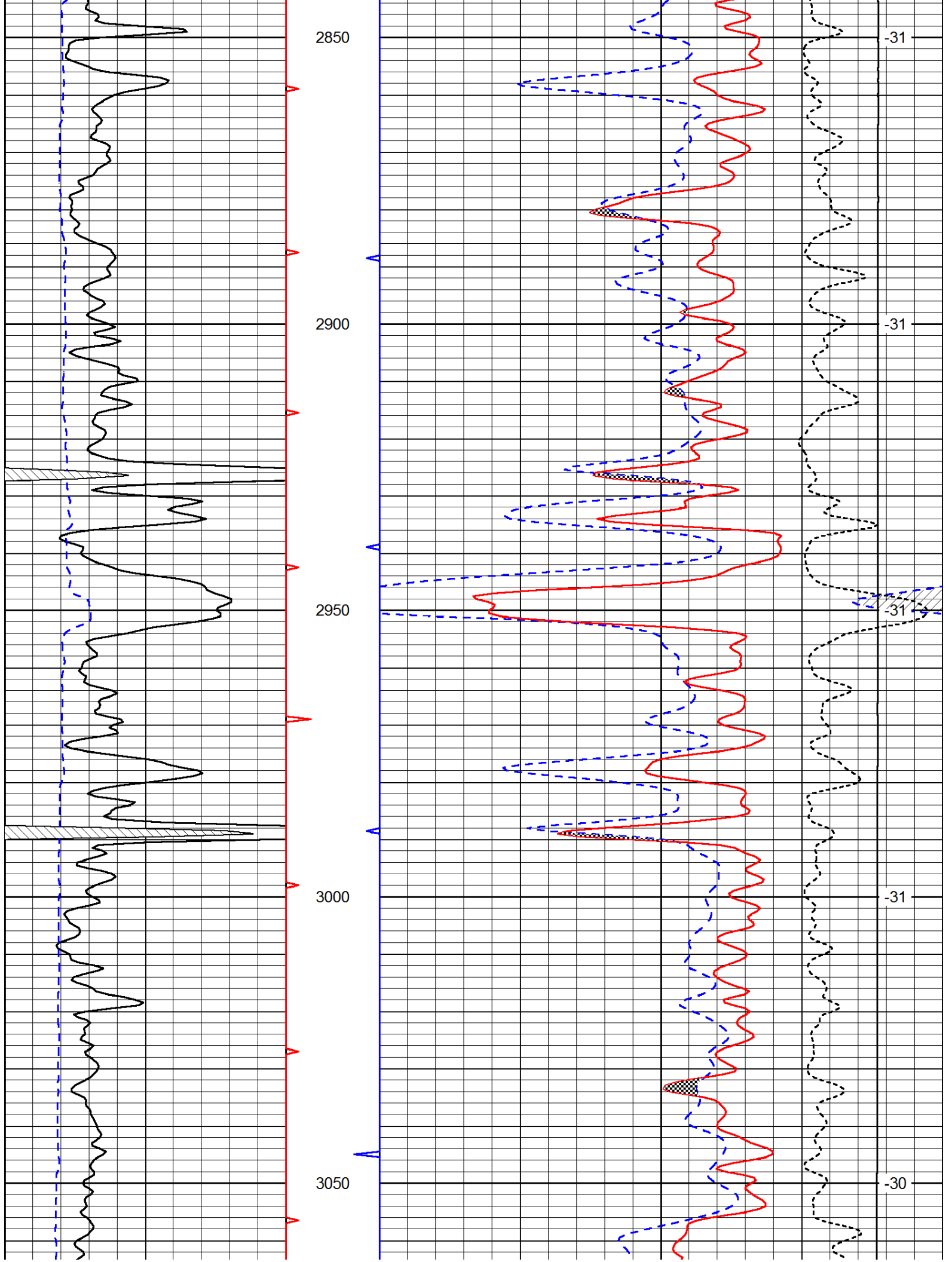
30	Compensated Density	-10	
2	Bulk Density	3	
15000	Line Tension	0	
	-0.25	Correction	0.25
			LSPD

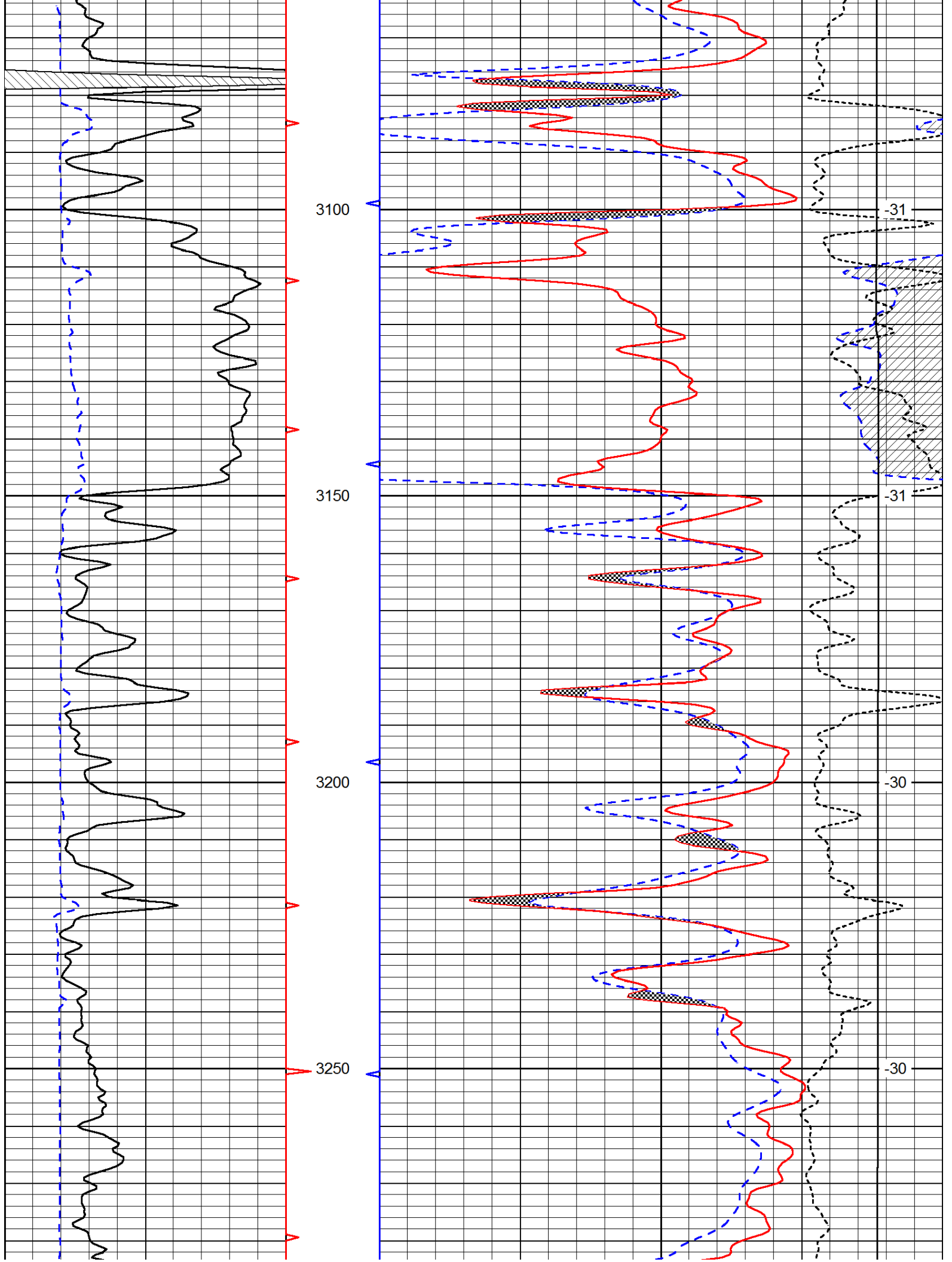


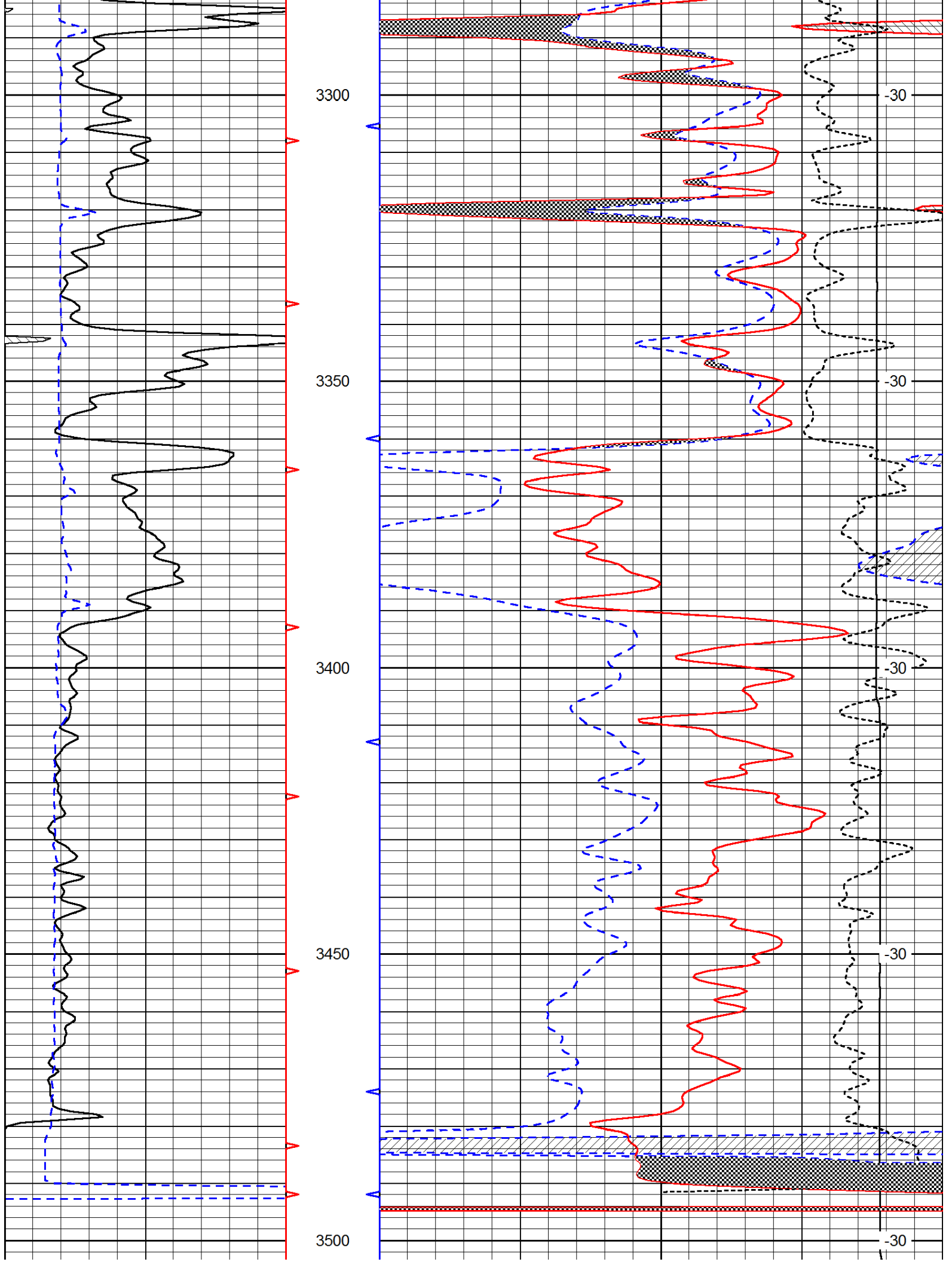


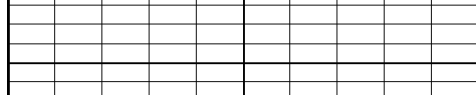
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 Charted by: Depth in Feet scaled 1:240





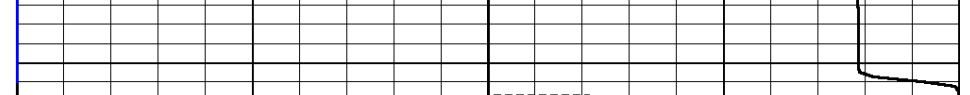
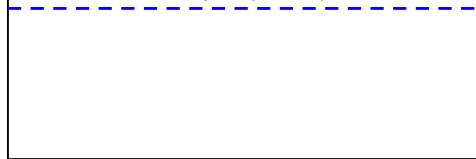






0 Gamma Ray 150

6 Caliper (GAPI) 16



30 Compensated Neutron (Limestone) -10

30 Compensated Density (Limestone) -10

15000 Line Tension 0

-0.25 Correction 0.25

LSPD