



Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-069-20,491-00-00

Company **American Warrior, Inc.**
 Well **Shadow #7-17**
 Field **Shadow**
 County **Gray** State **Kansas**

Location **2410' FSL & 2123' FWL**
 Sec: **17** Twp: **28S** Rge: **30W**

Other Services
 DIL
 MEL

Permanent Datum **Ground Level** Elevation **2793**
 Log Measured From **Kelly Bushing** 13 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2806
 D.F. G.I.L. 2793

Date	11/29/2014	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	5250	
Depth Logger	5249	
Bottom Logged Interval	5228	
Top Logged Interval	4050	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	5,700	
Density	9.3	
Level	Full	
Max. Rec. Temp. F	128	
Operating Rig Time	4 1/2 Hours	
Equipment -- Location	51 Hays	
Recorded By	C. Desaire	
Witnessed By	Kevin Timson	

Borehole Record

Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	1698	8.625	24#	00	1698
2	7.875	1698	5250				

Casing Record

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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.

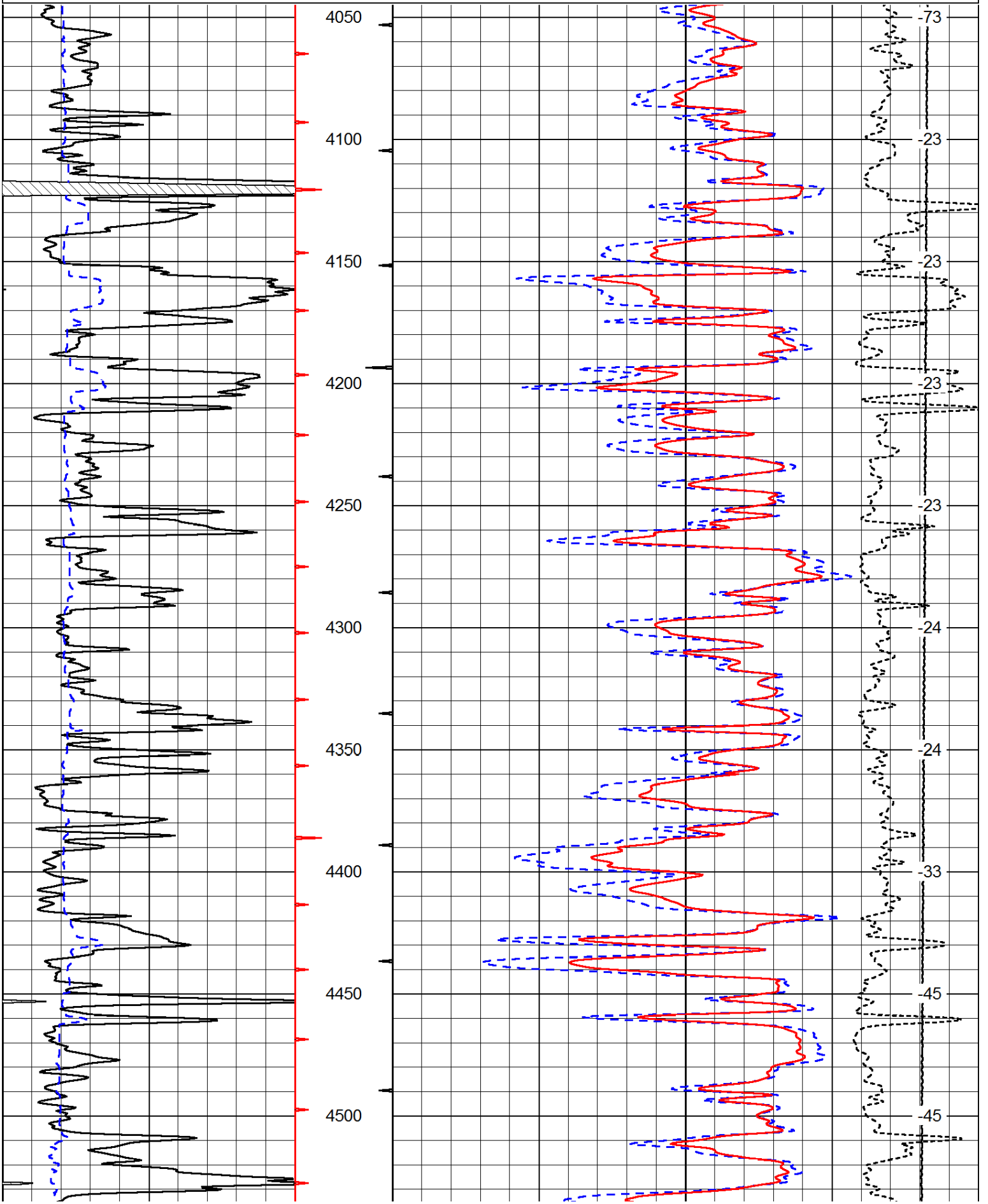
Comments

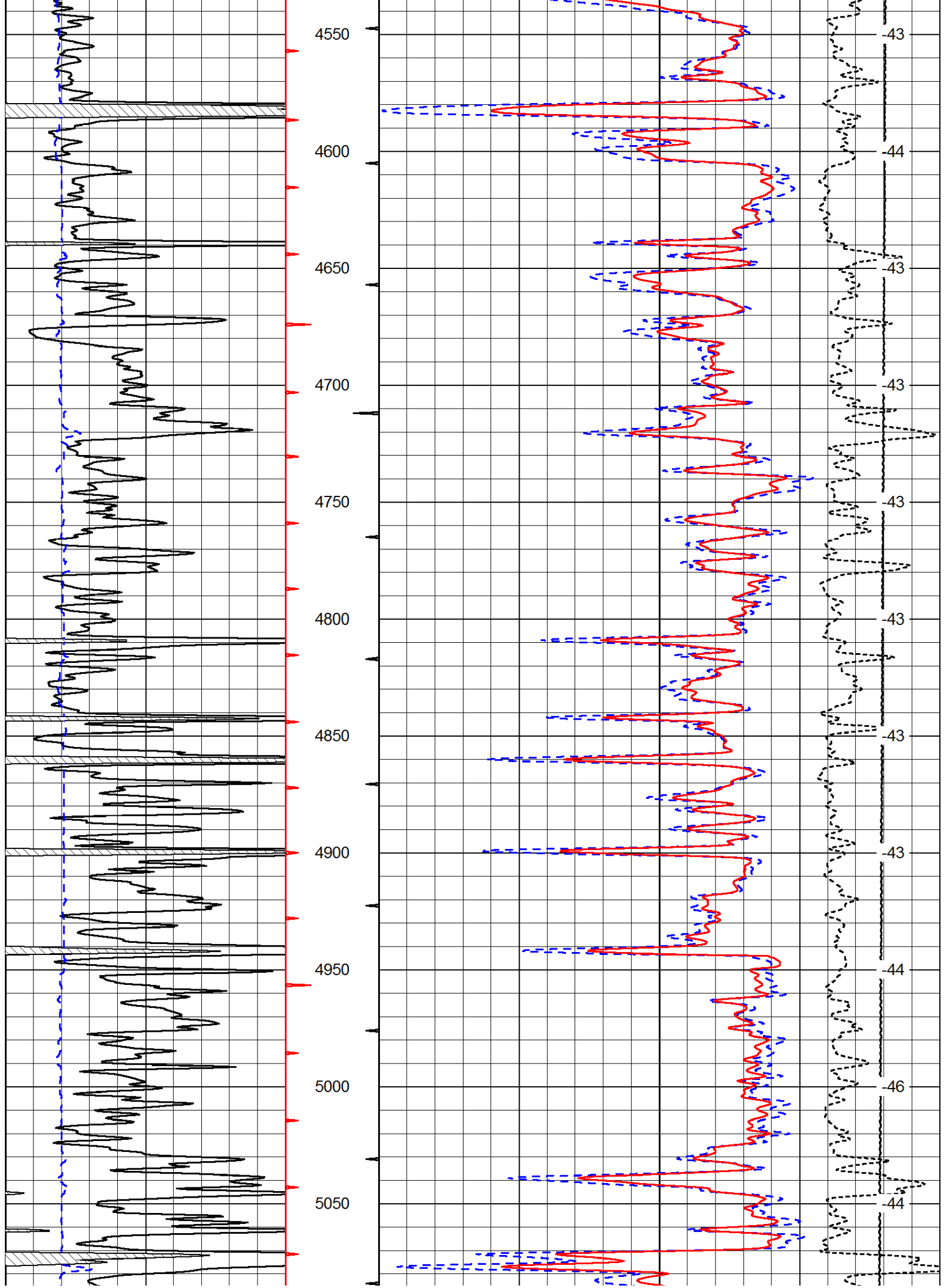
Thank you for using Pioneer Energy Services
 www.pioneeres.com
 785 625 3858
 Copeland KS, N on 2 Rd, to AA Rd,
 1/2 E, 1/2 S Into

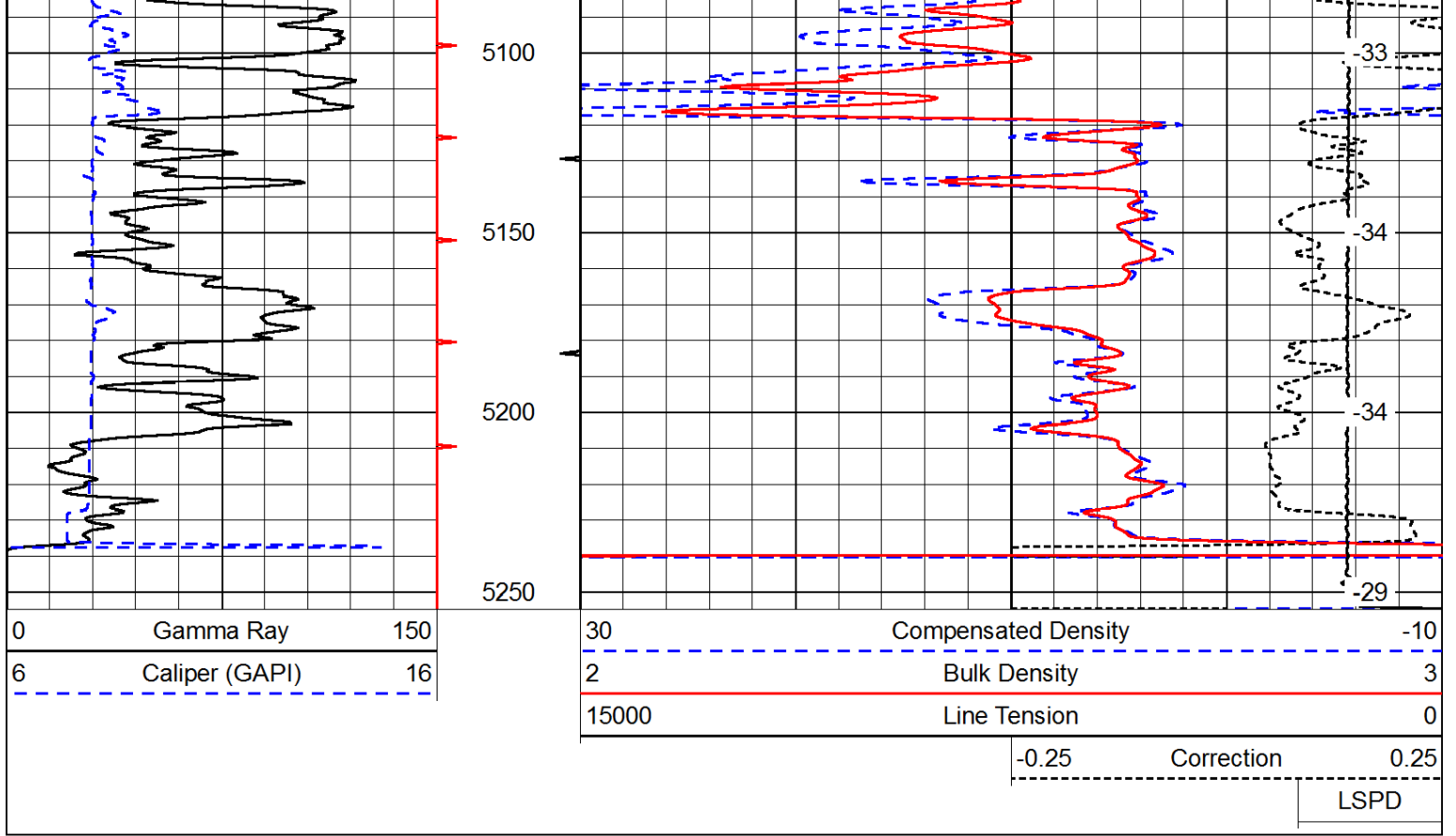
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Dataset Pathname:	dil/awstk2
Presentation Format:	cdl
Dataset Creation:	Sat Nov 29 23:21:47 2014
Charted by:	Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

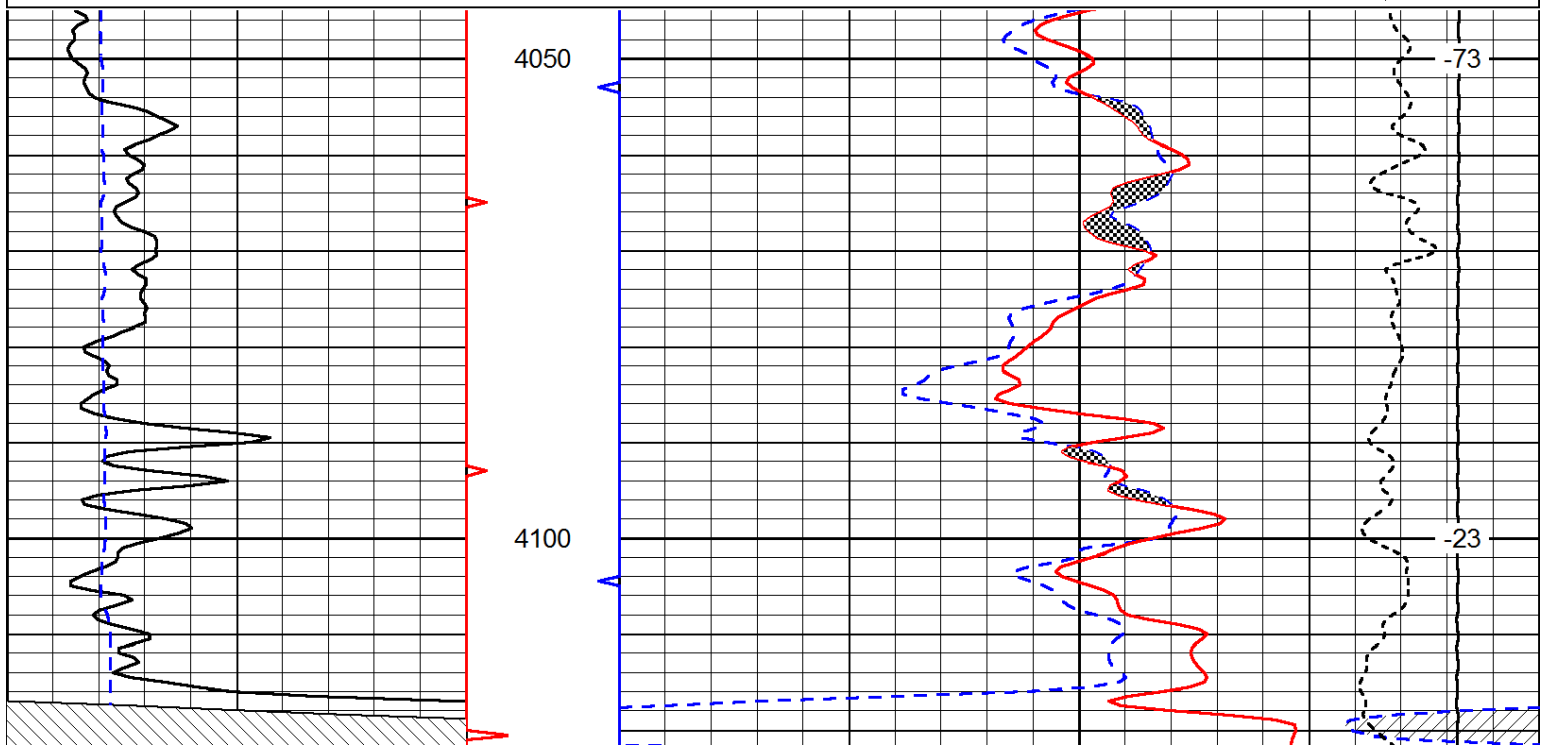
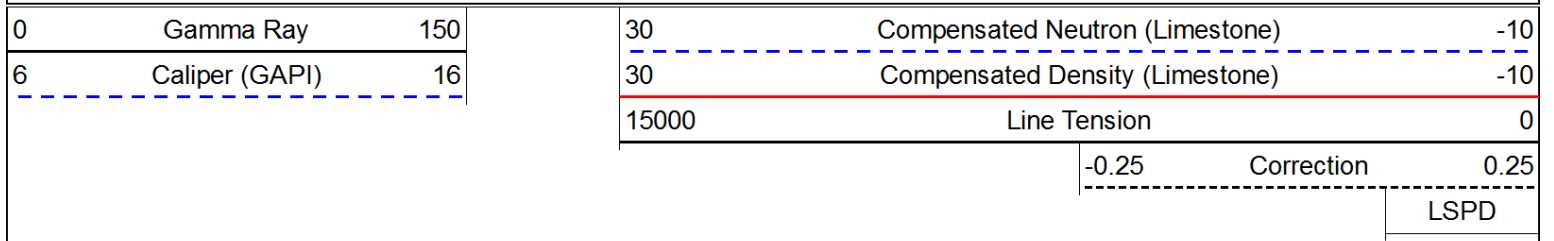
30	Compensated Density	-10	
2	Bulk Density	3	
15000	Line Tension	0	
	-0.25	Correction	0.25
			LSPD

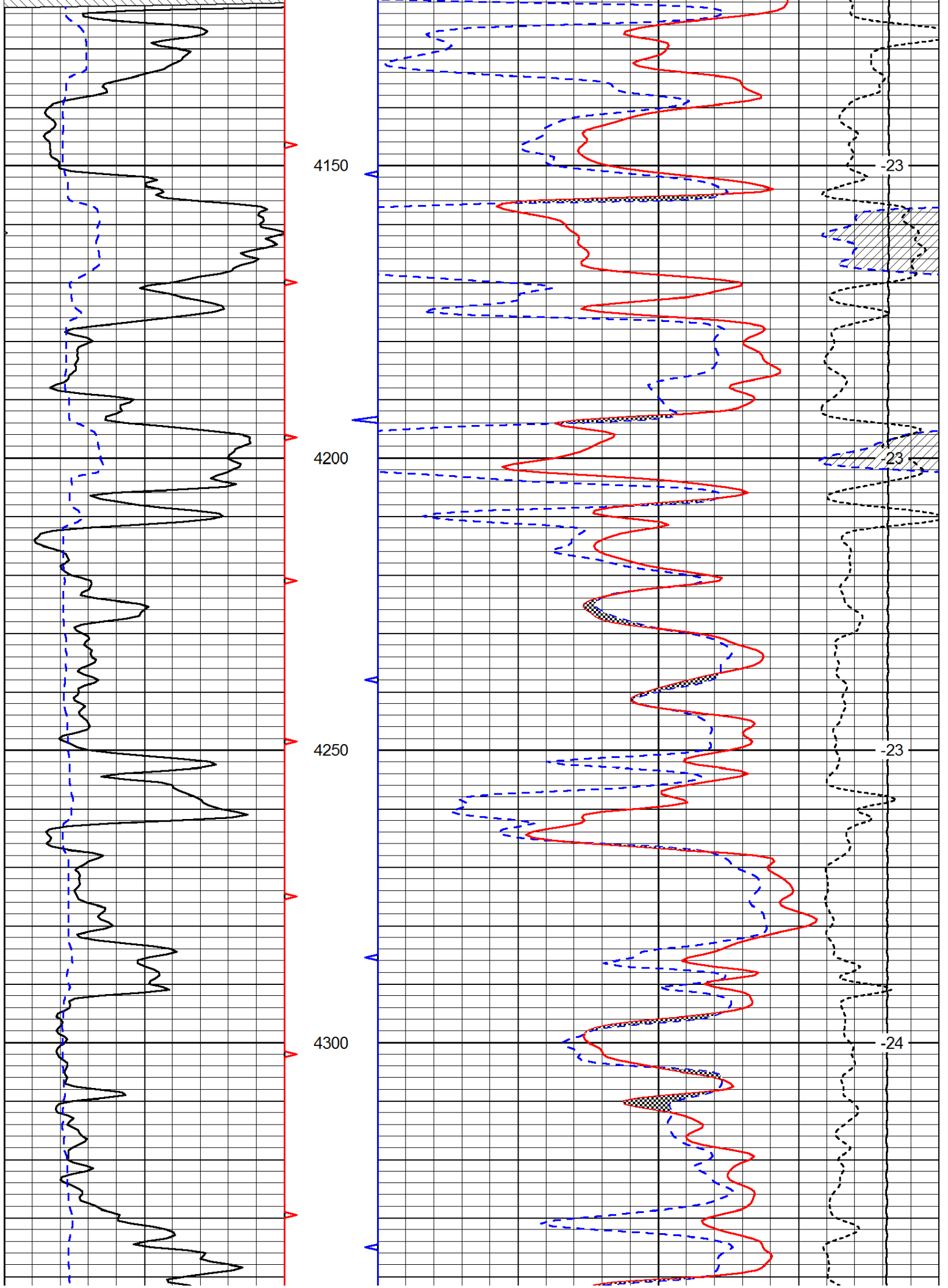


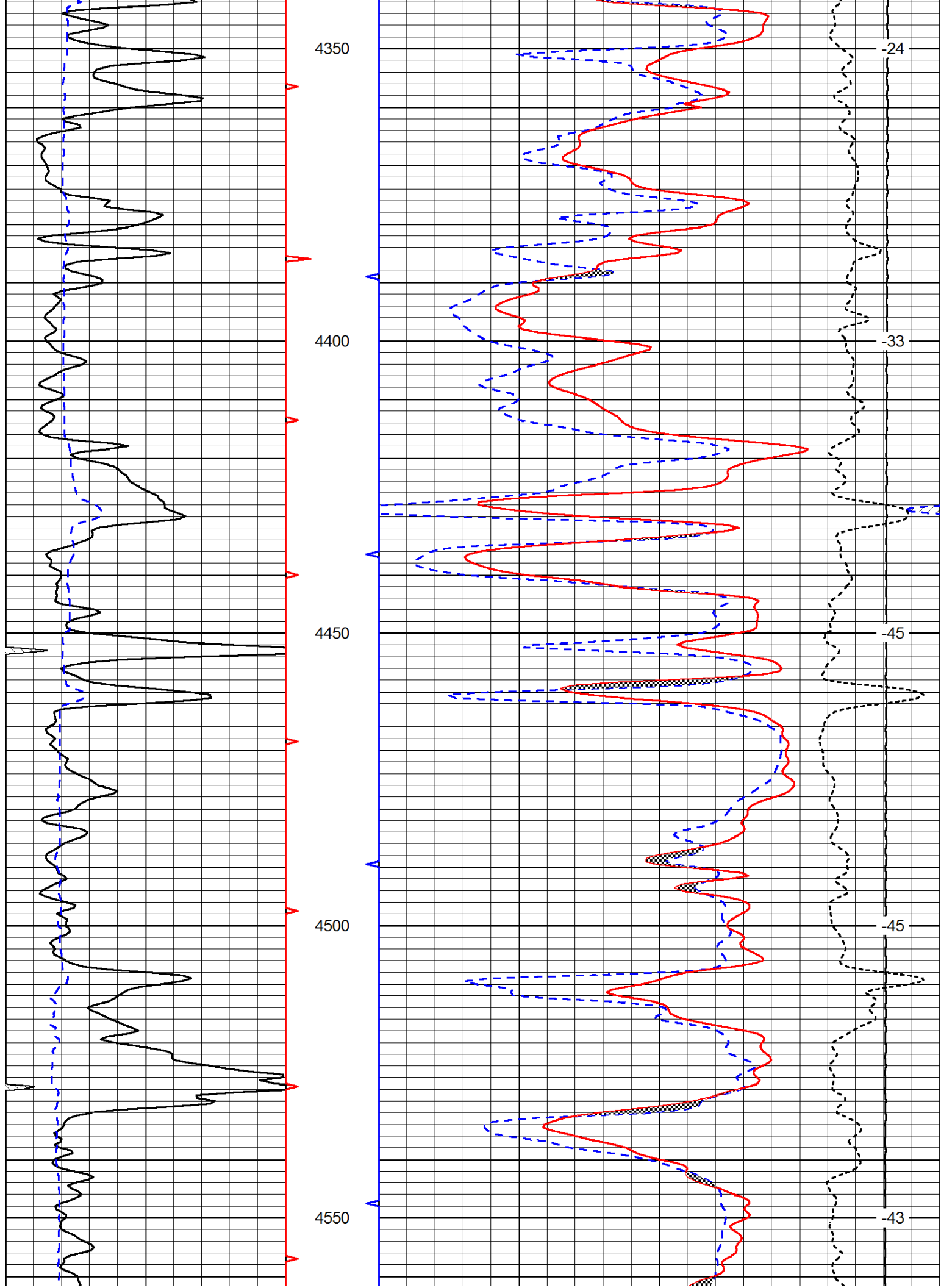


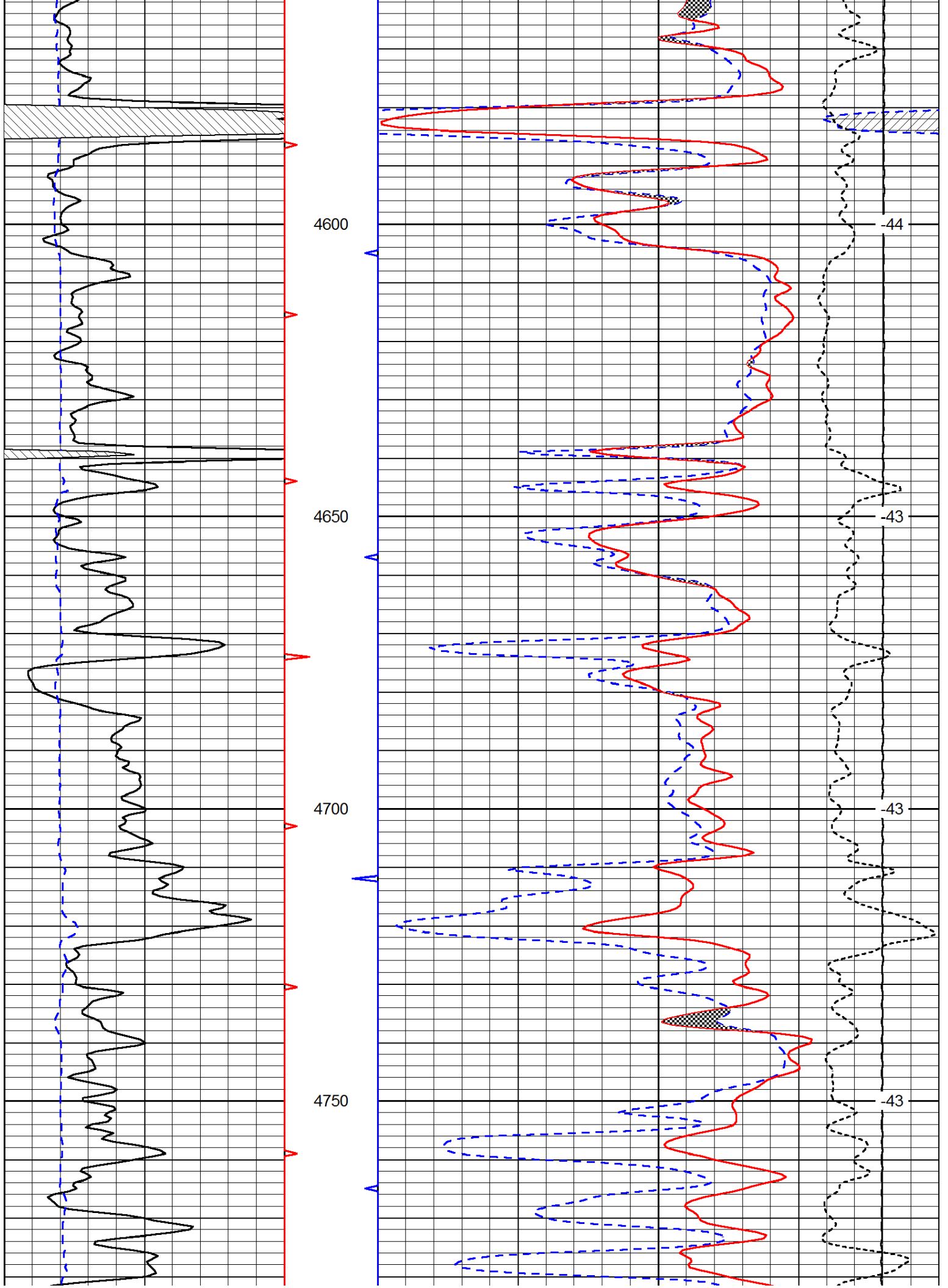


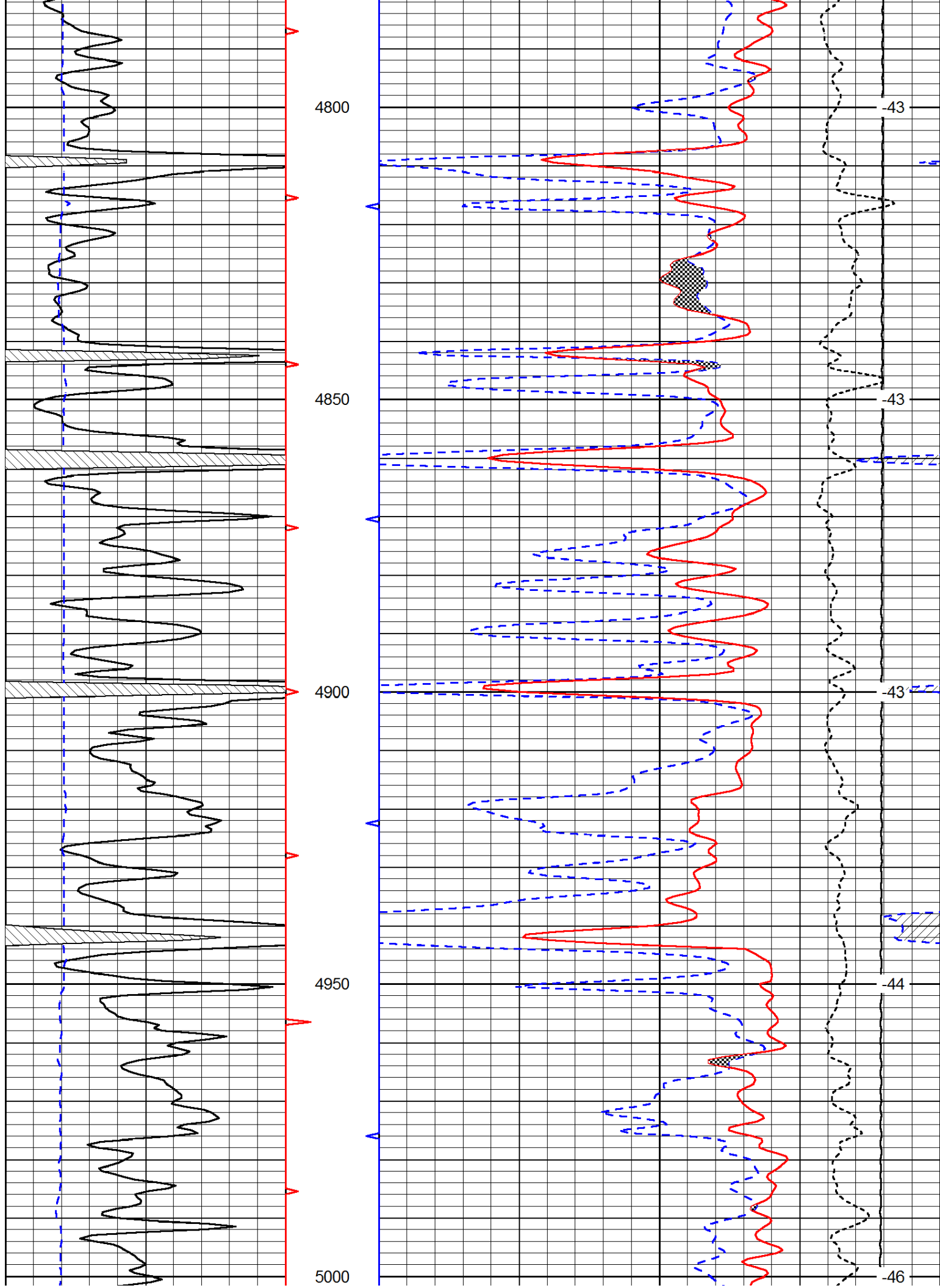
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 Charted by: Depth in Feet scaled 1:240

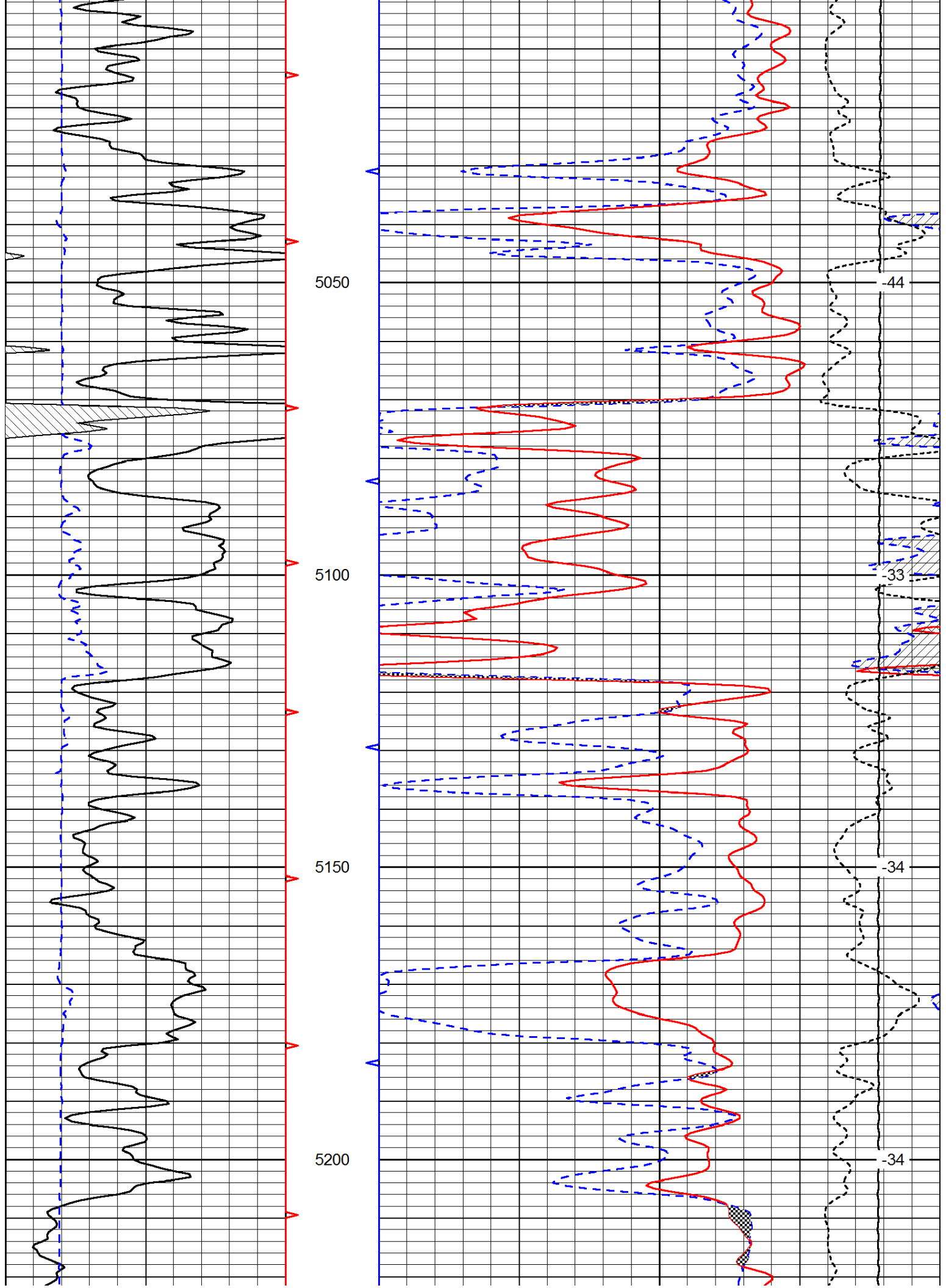


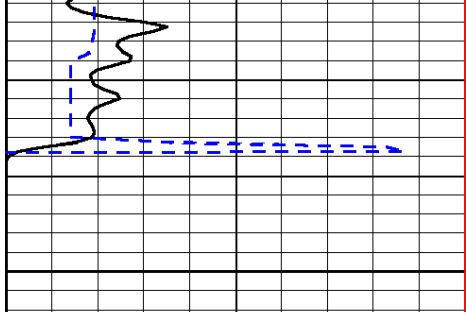




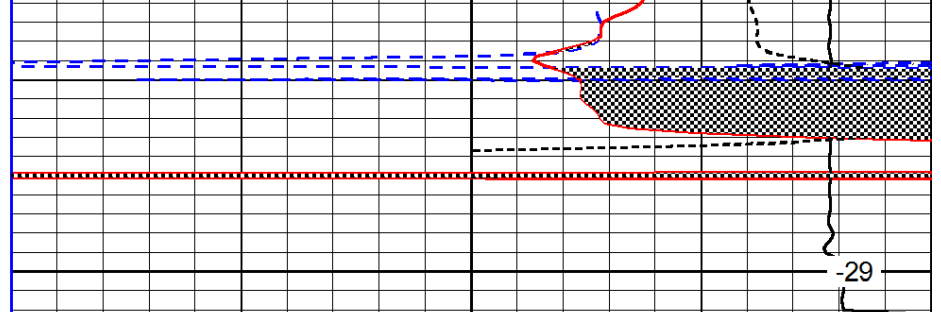








5250



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
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LSPD