



Pioneer Energy Services

Dual Compensated Porosity Log

15-101-22,524-00-00

API No.

Company **Larson Engineering, Inc.**
 Well **Shapland Trust # 1-21**
 Field **Wildcat**
 County **Lane** State **Kansas**

Location
 NE-NW-SW-SE
 1037' FSL & 2104' FEL

Sec: 21 Twp: 18S Rge: 28W

Other Services
 DIL
 MEL

Permanent Datum Ground Level Elevation 2742
 Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elevation
 K.B. 2749
 D.F.
 G.L. 2742

Date	7/12/14
Run Number	One
Type Log	CNL / CDL
Depth Driller	4625
Depth Logger	4622
Bottom Logged Interval	4601
Top Logged Interval	3600
Type Fluid In Hole	Chemical
Salinity, PPM CL	3,500
Density	9.2
Level	Full
Max. Rec. Temp. F	122
Operating Rig Time	4 Hours
Equipment -- Location	91 Hays
Recorded By	J. Henrickson
Witnessed By	Vern Schrag

Borehole Record		Casing Record	
Run No.	Bit From To	Size Wgt.	From To
1	12.25 00	8.625 24#	00 263
2	7.875 263	4625	

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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

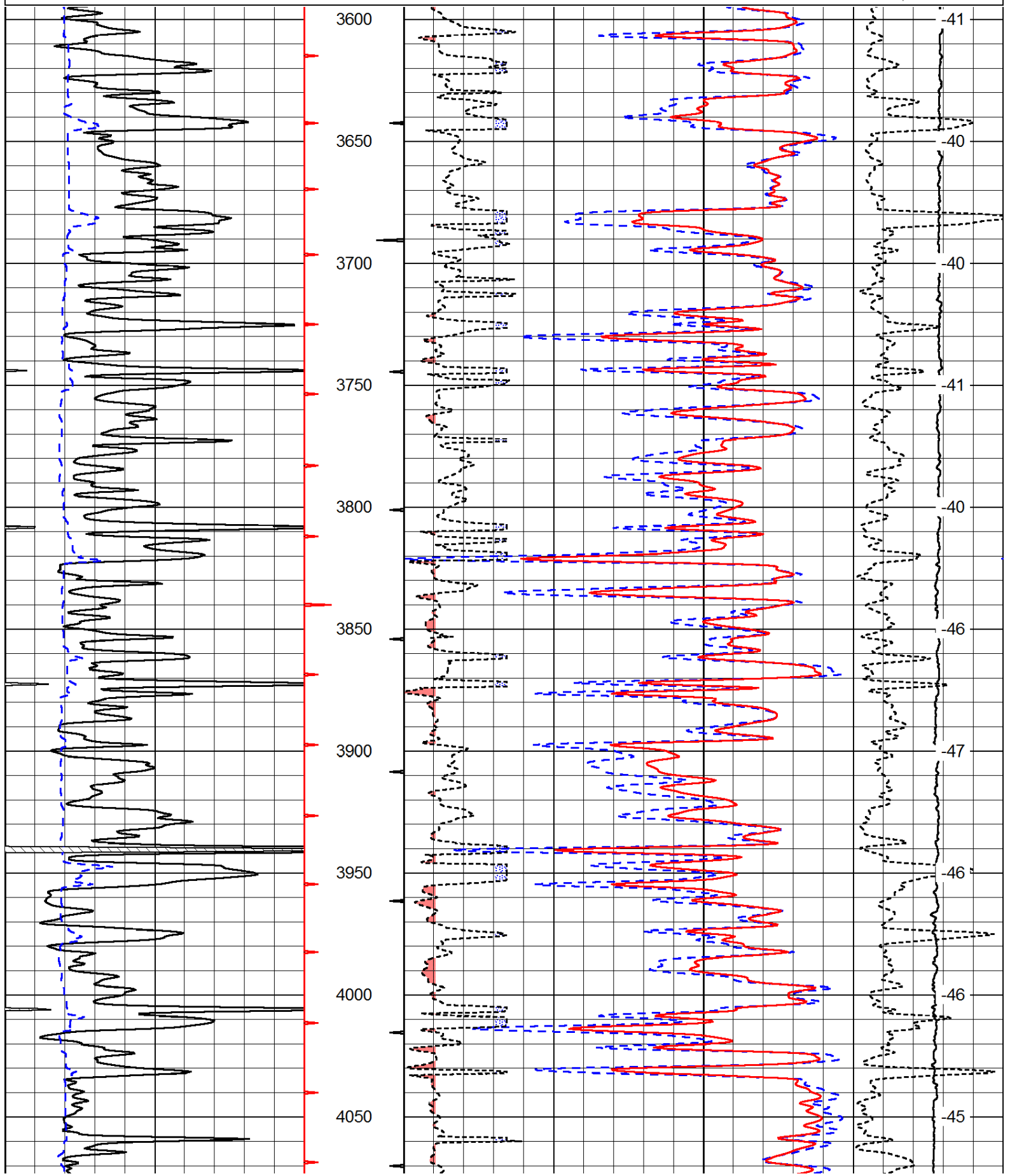
Thank you for using Pioneer Energy Services
www.pioneerres.com
 785 625 3858

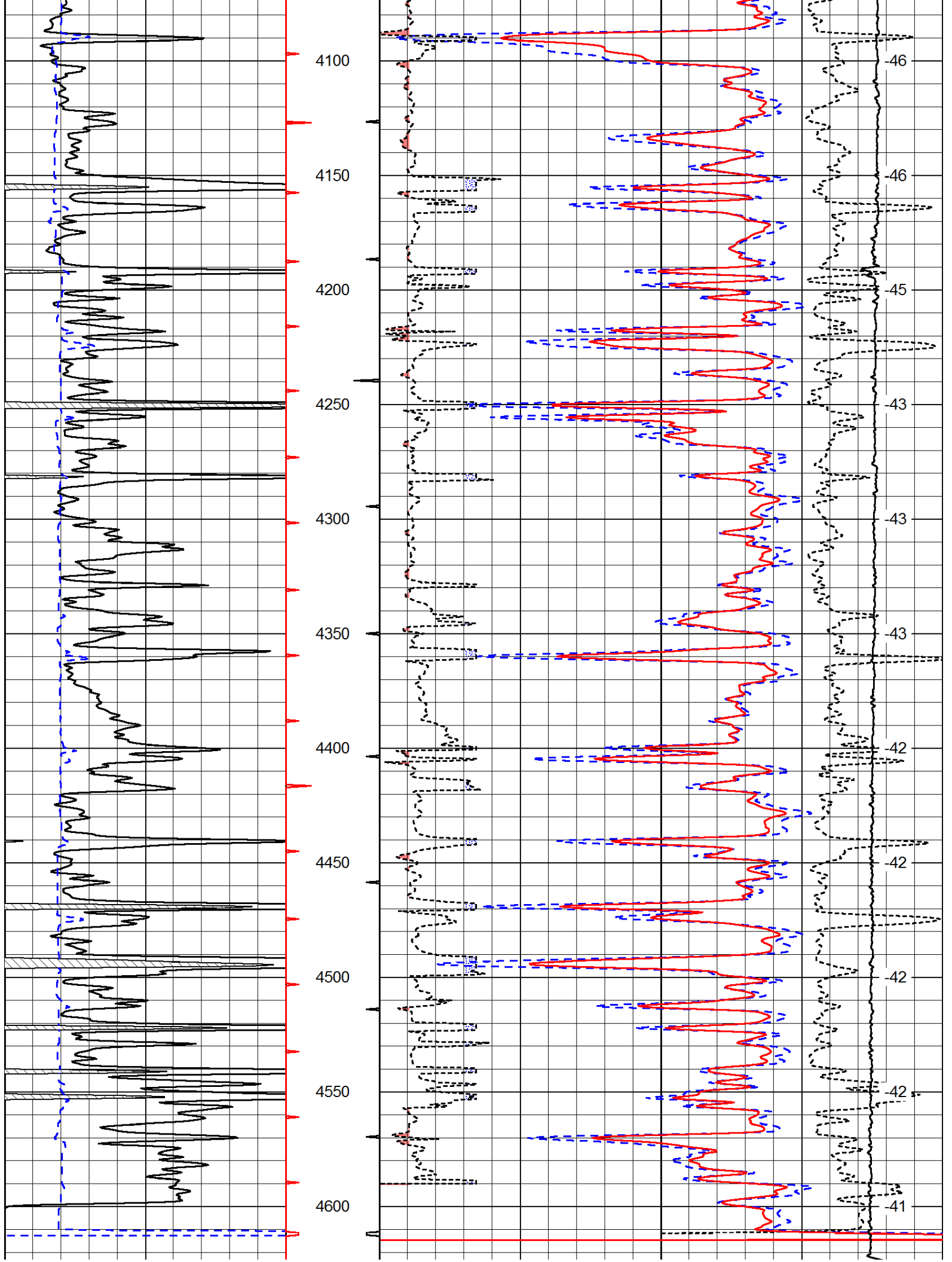
Dighton Kansas
 2 East, 1 South, East Into

Database File: c:\warrior\data\larson_shapland trust # 1-21\larson_shapland_trust_1_21hd.db
 Dataset Pathname: DIL\larstk
 Presentation Format: cdl
 Dataset Creation: Sat Jul 12 17:42:44 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			

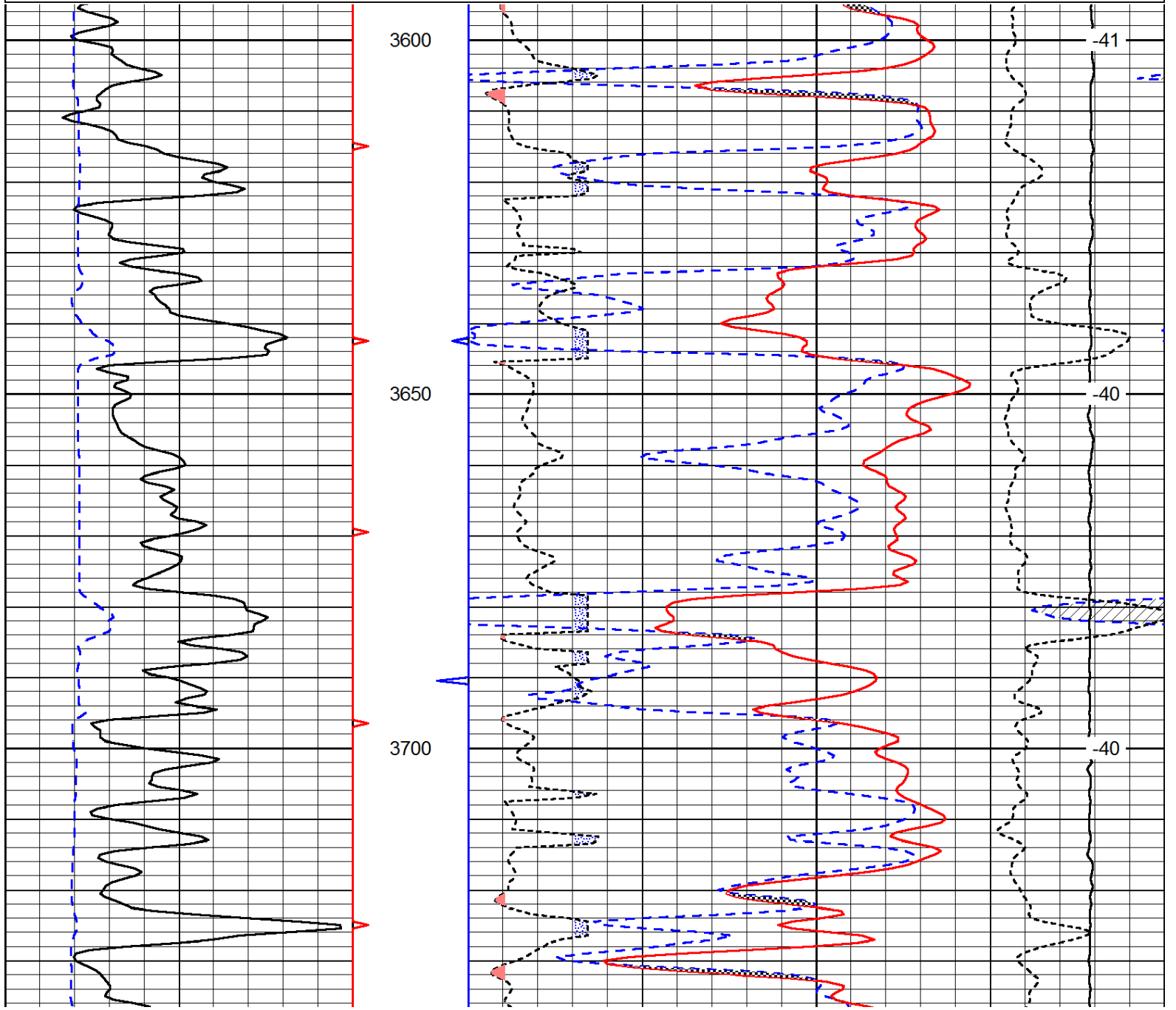


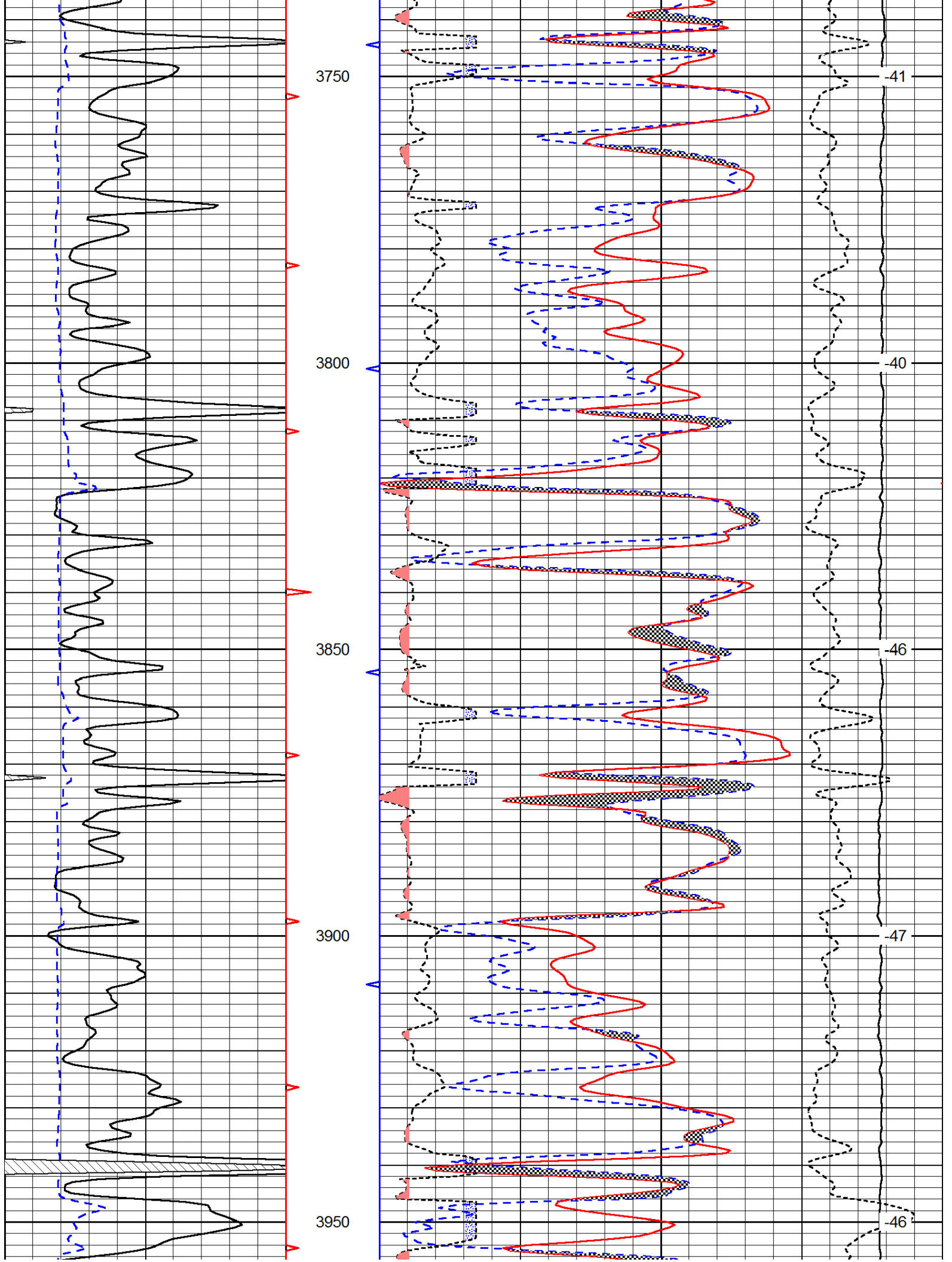


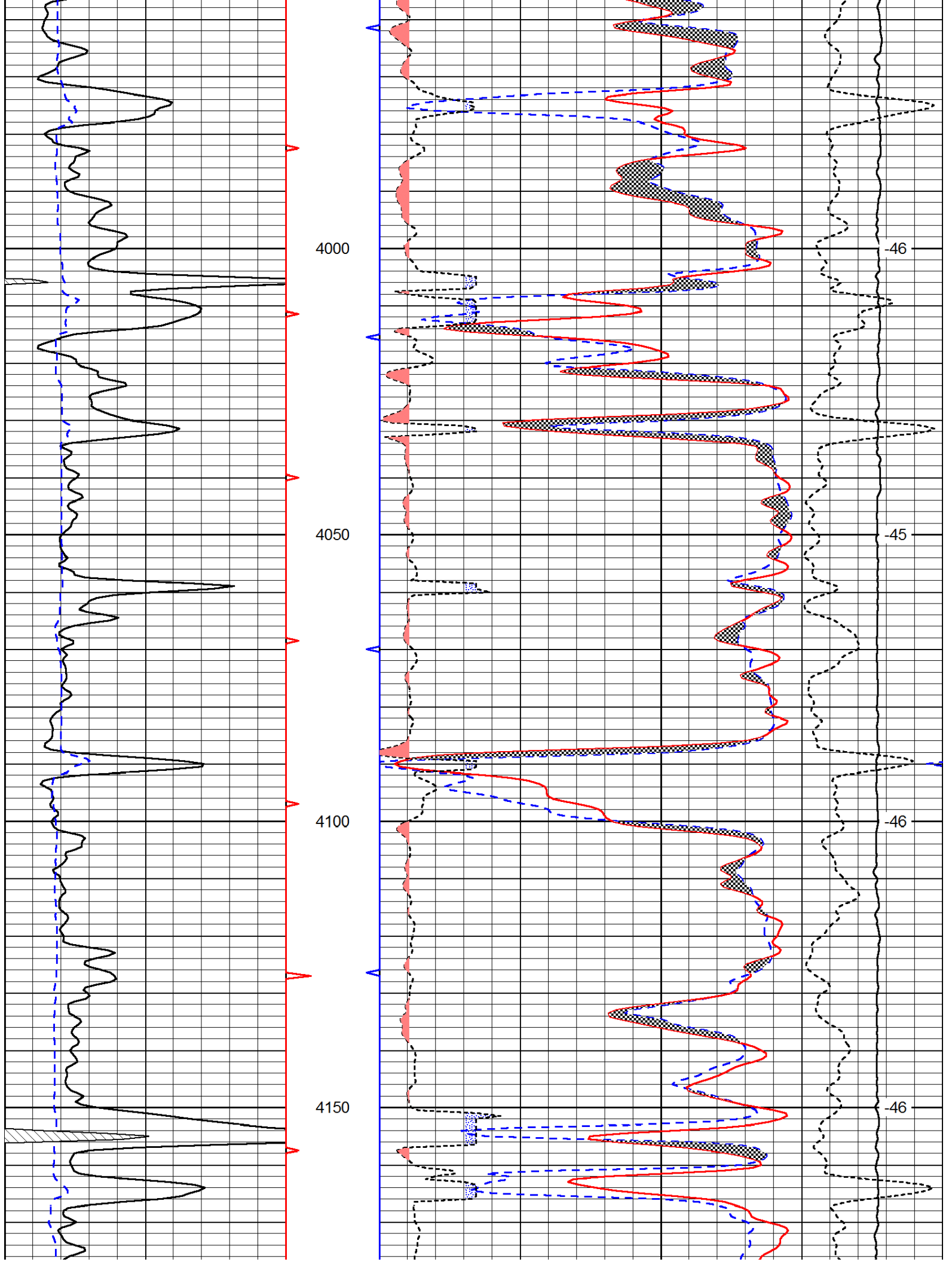
0	Gamma Ray	150	30	Compensated Density		-10
6	Caliper (GAPI)	16	2	Bulk Density		3
			15000	Line Tension		0
			2.625	DGA	3.425 -0.25	Correction 0.25
						LSPD

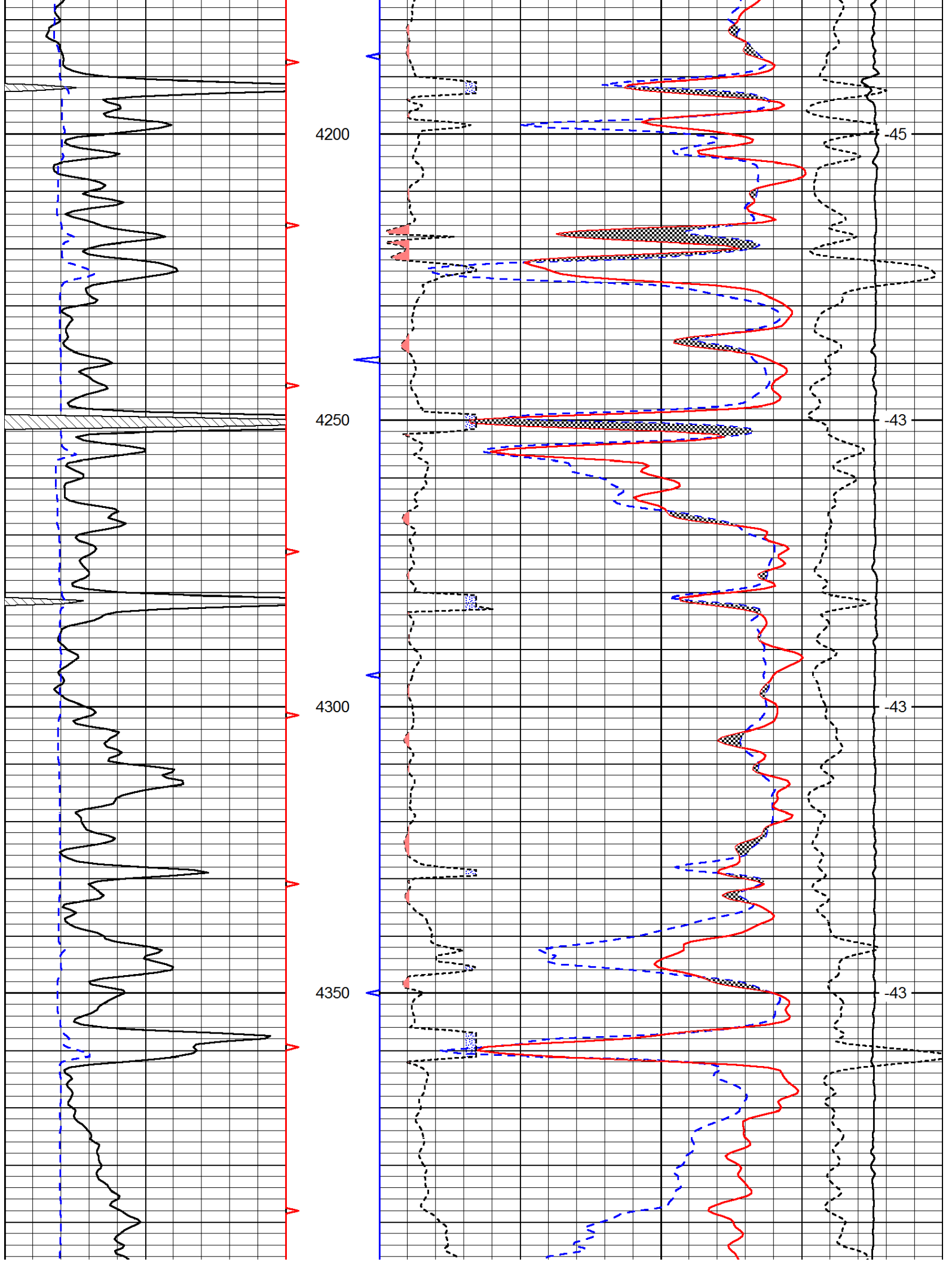
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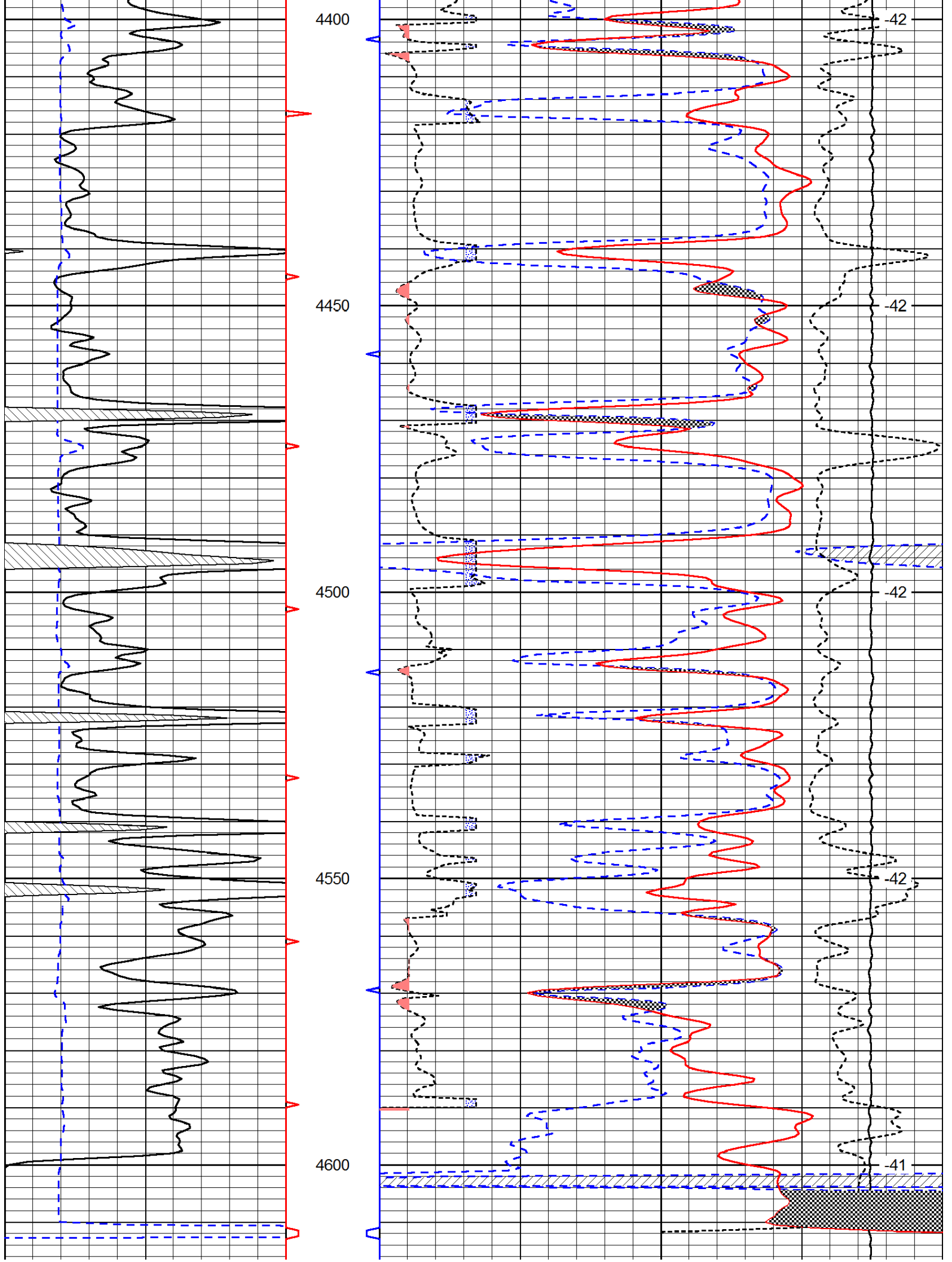
0	Gamma Ray	150	30	Compensated Neutron (Limestone)		-10
6	Caliper (GAPI)	16	30	Compensated Density (Limestone)		-10
			2.625	DGA	3.425 -0.25	Correction 0.25
			15000	Line Tension		0
						LSPD

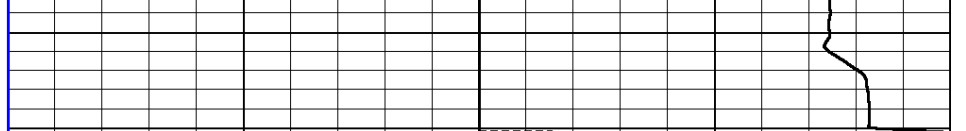
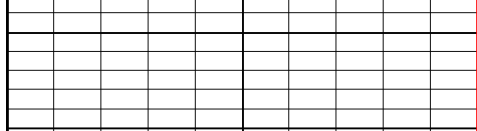












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6	Caliper (GAPI)	16

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2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0

LSPD