



Pioneer Energy Services

Dual Compensated Porosity Log

15-101-22538-00-00

Company **Larson Engineering, Inc.**
 Well **Risley #1-36**
 Field **Wildcat**
 County **Lane** State **Kansas**

Location **1844' FNL & 588' FWL**
 Sec: **36** Twp: **18S** Rge: **30W**

Other Services
 DIL
 MEL

Permanent Datum **Ground Level** Elevation **2854**
 Log Measured From **Kelly Bushing** **7** Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. **2861**
 D.F. **2854**
 G.L. **2854**

Date	10/2/2014						
Run Number	One						
Type Log	CNL / CDL						
Depth Driller	4613						
Depth Logger	4614						
Bottom Logged Interval	4593						
Top Logged Interval	3600						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	3300						
Density	9.4						
Level	Full						
Max. Rec. Temp. F	124						
Operating Rig Time	4 Hours						
Equipment -- Location	91 Hays						
Recorded By	D. Schmidt						
Witnessed By	Vern Schrag						
Borehole Record							
Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	256	8.625	24#	00	256
2	7.875	256	4613				
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.

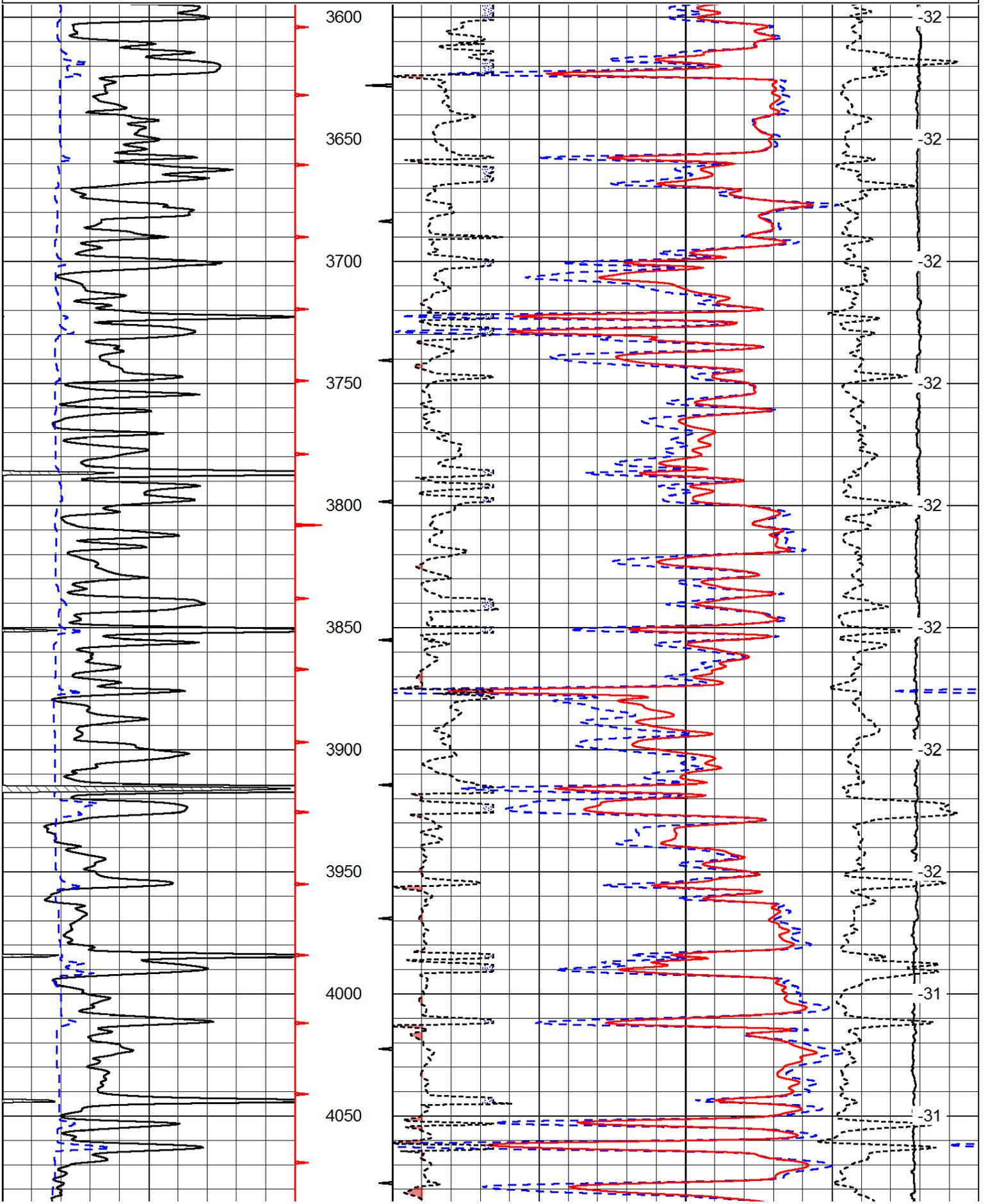
Comments

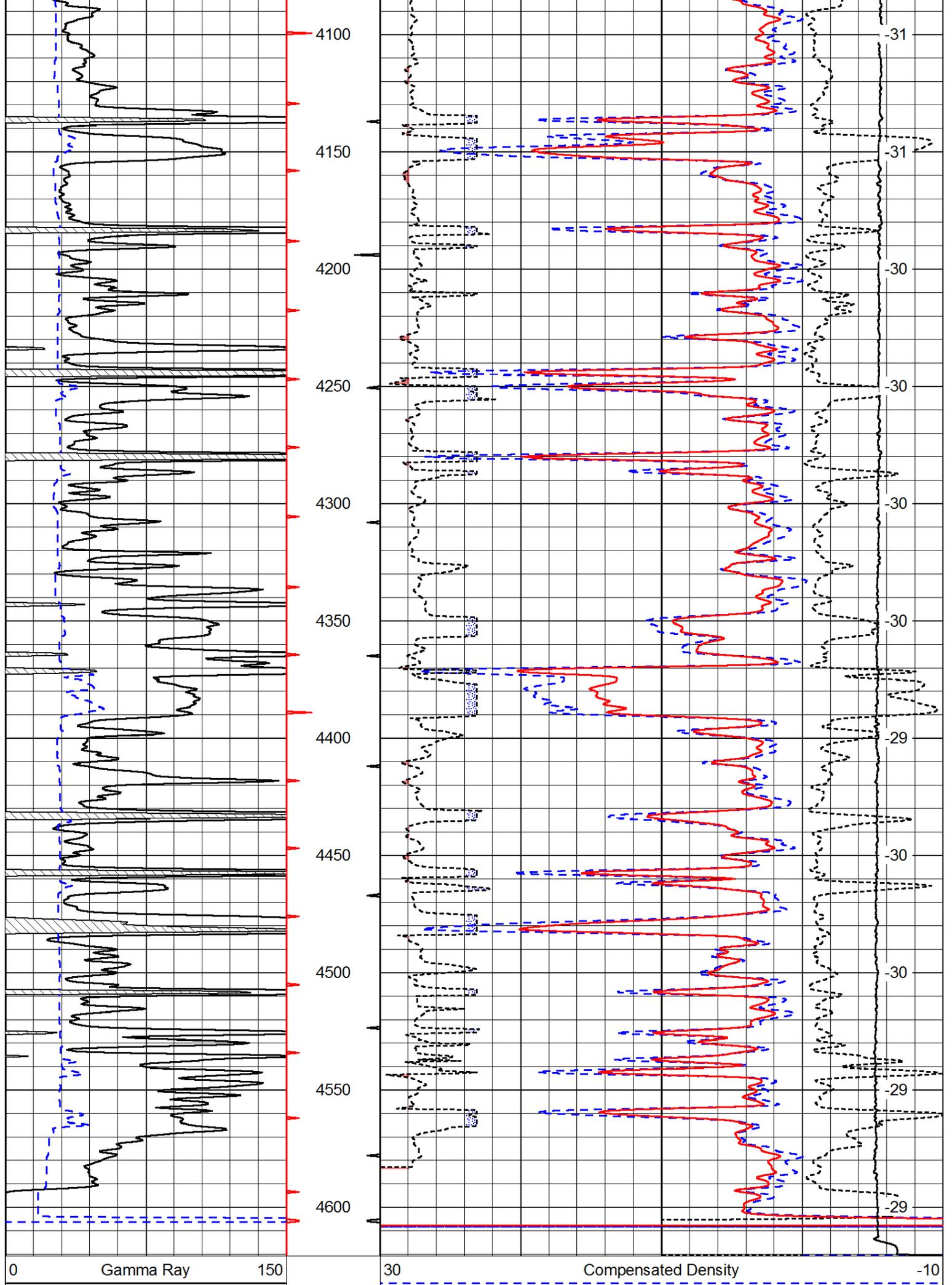
Thank you for using Pioneer Energy Services
 www.pioneeres.com
 785 625 3858
 Dighton,
 7 West to Eagle Rd, 2 1/3 South,
 East into

Database File: c:\warrior\data\larson_risley #1-36\larson_risley_1-36hd.db
 Dataset Pathname: dil\lastack
 Presentation Format: cdl
 Dataset Creation: Thu Oct 02 02:57:34 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			





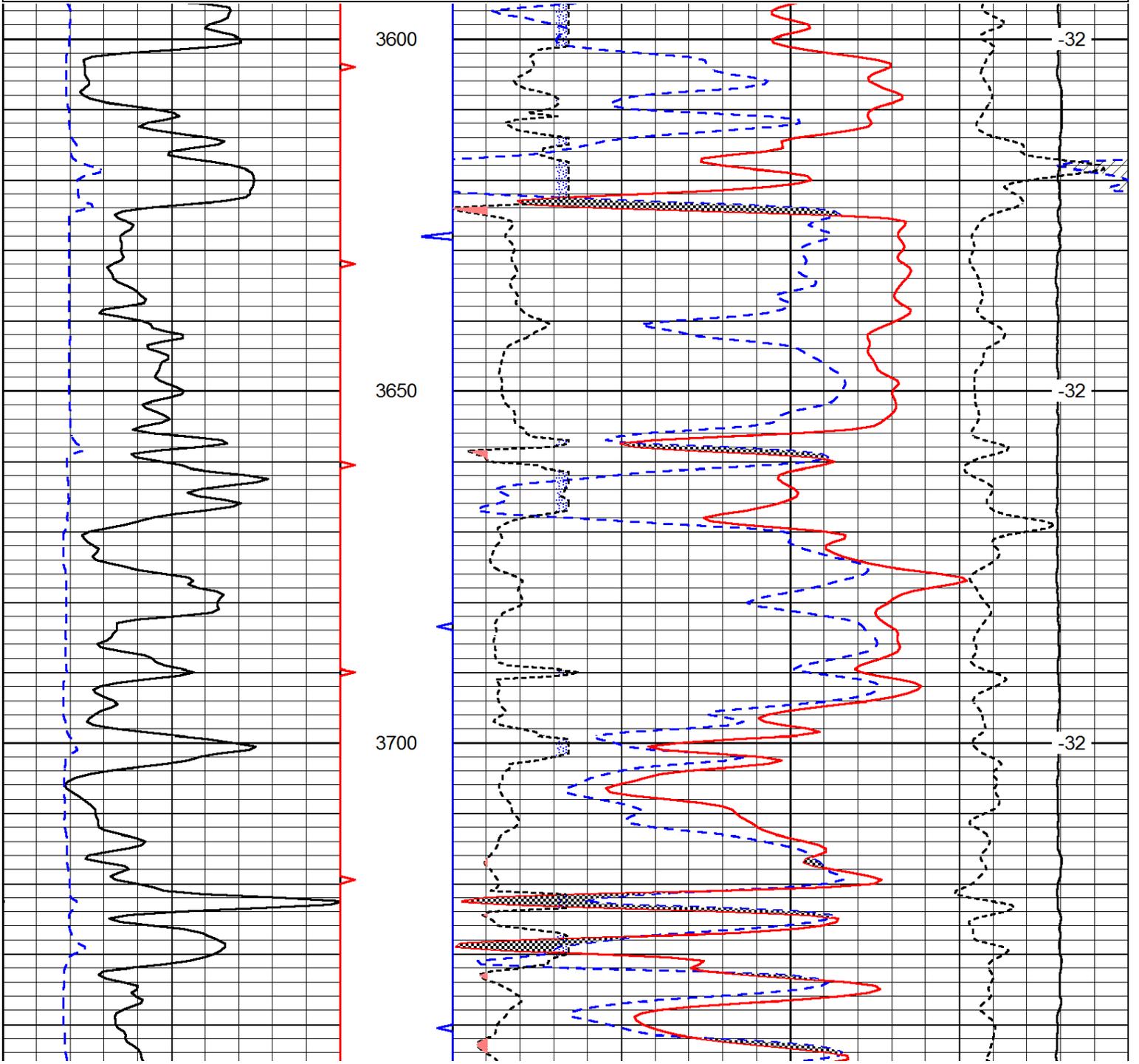
6	Caliper (GAPI)	16
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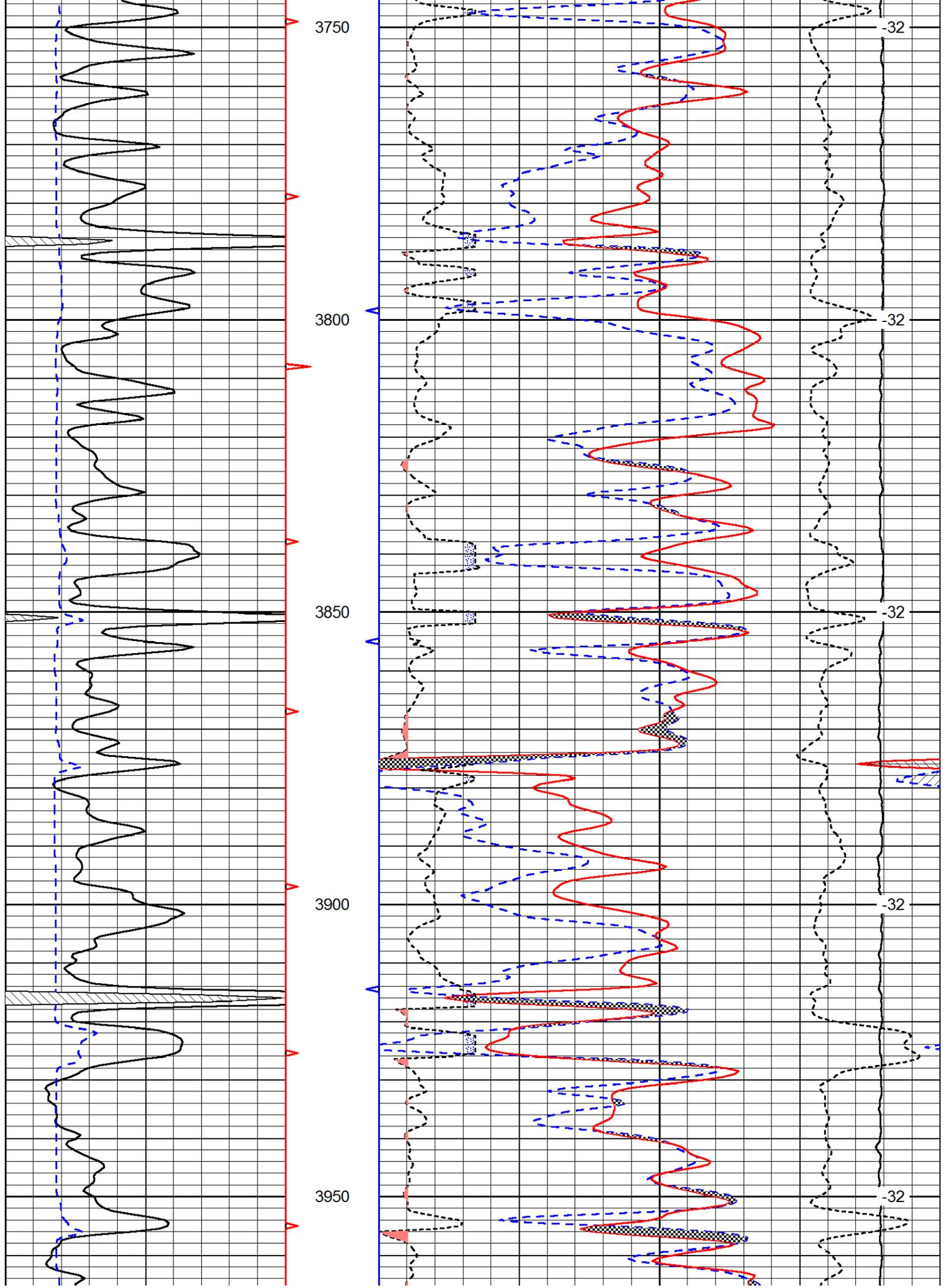
2		Bulk Density	3
15000		Line Tension	0
2.625	DGA	3.425	-0.25
		Correction	0.25
			LSPD

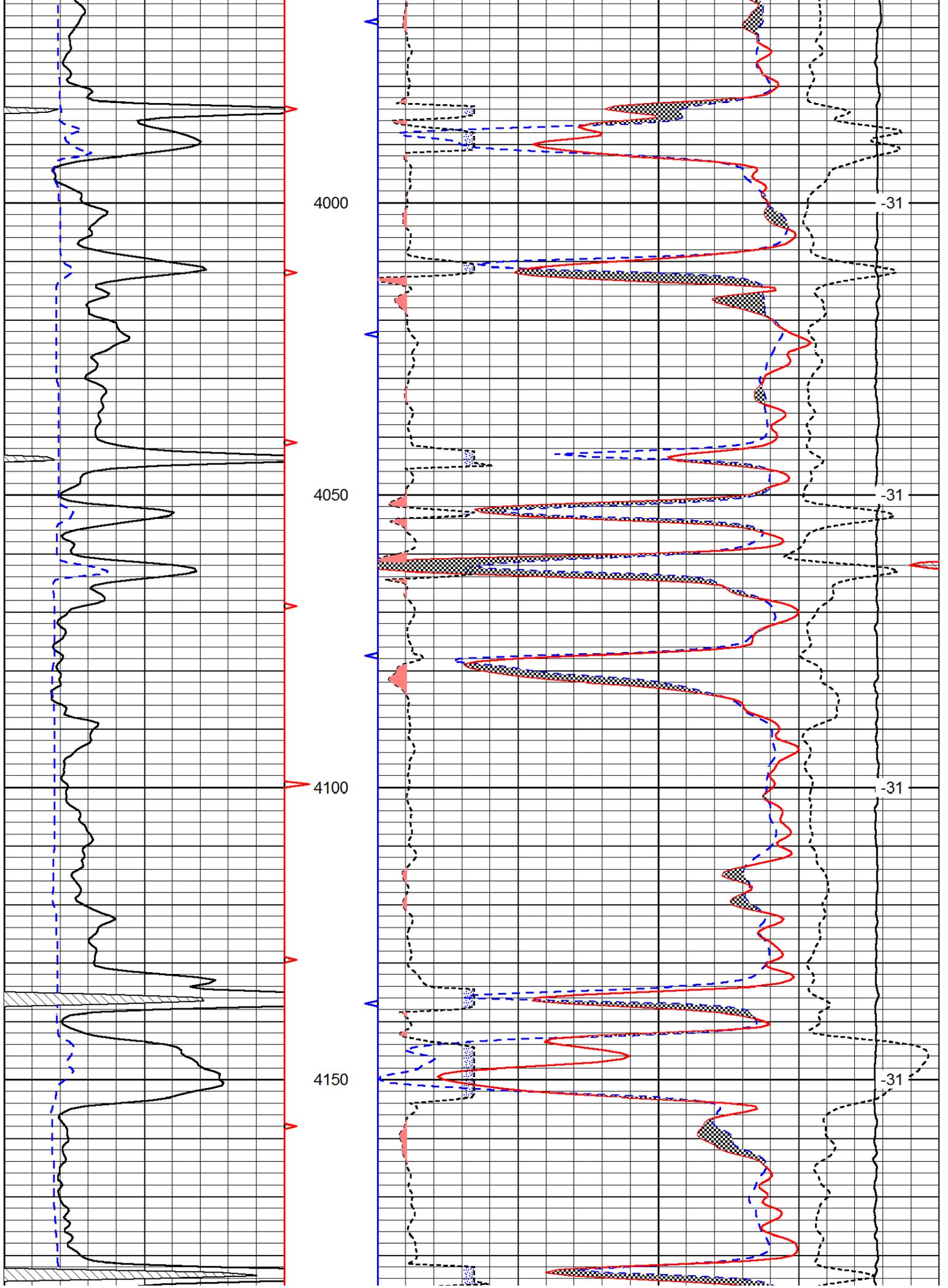
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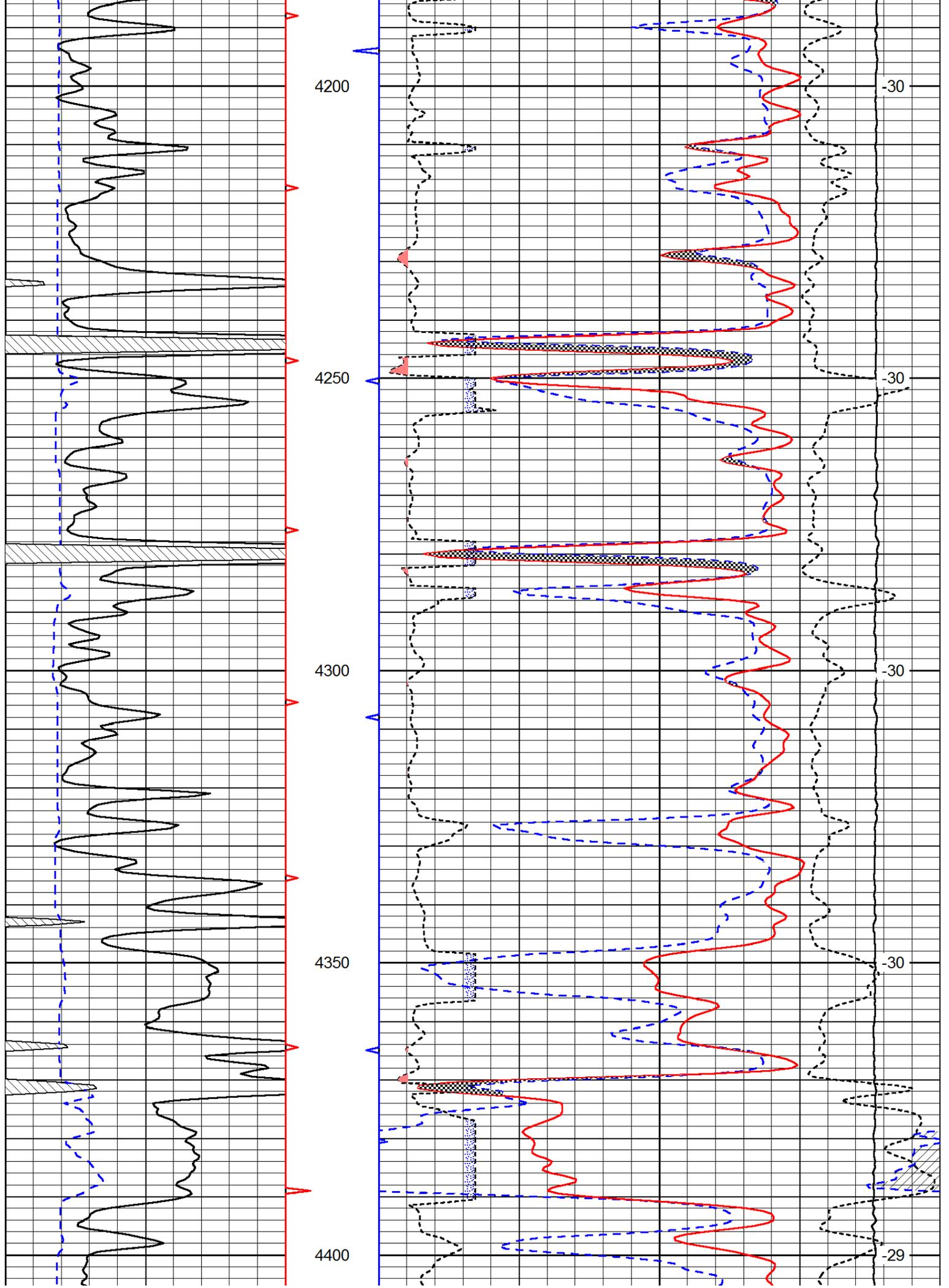
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6	Caliper (GAPI)	16

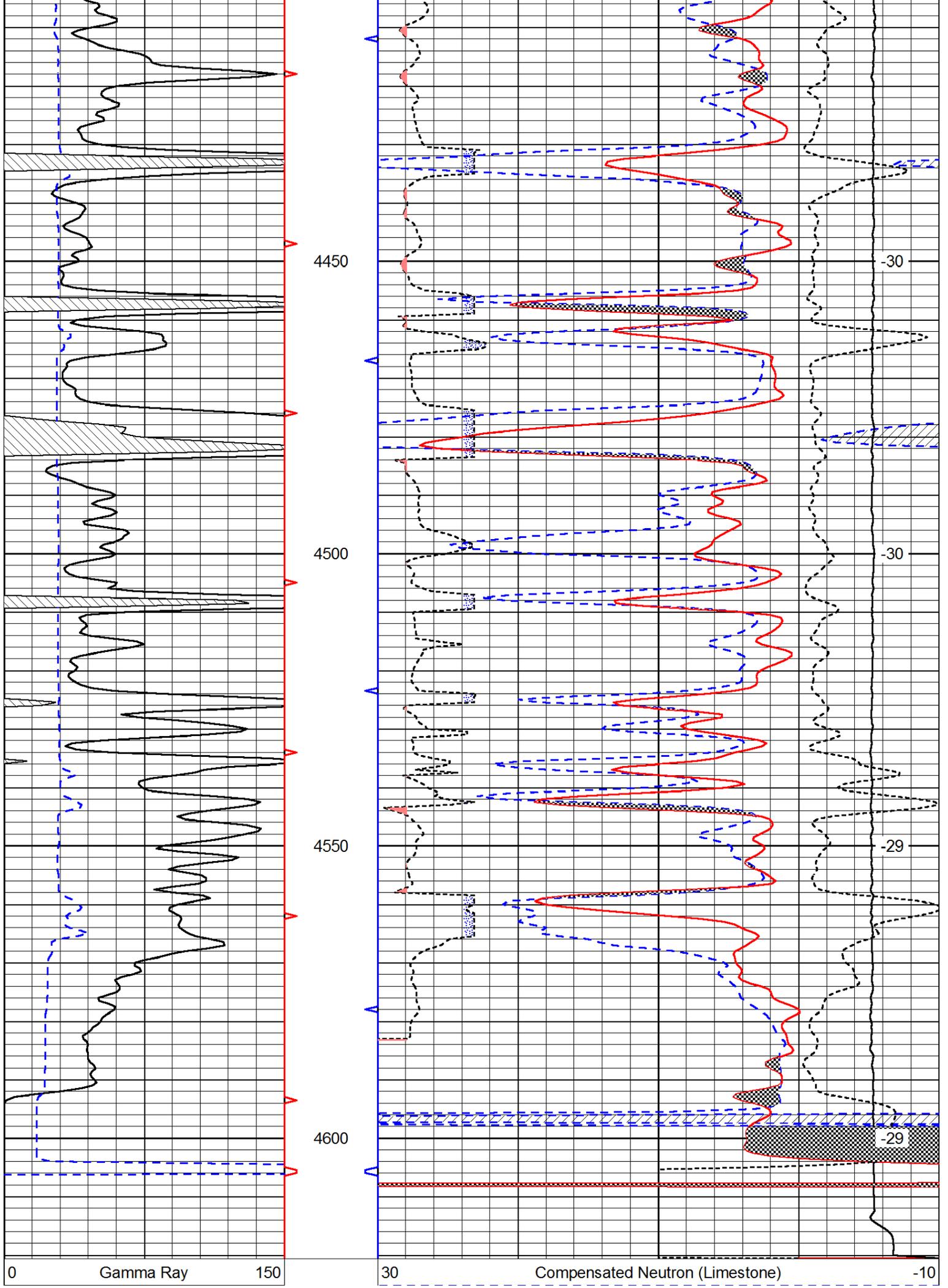
30		Compensated Neutron (Limestone)	-10
30		Compensated Density (Limestone)	-10
2.625	DGA	3.425	-0.25
		Correction	0.25
15000		Line Tension	0
			LSPD











6 Caliper (GAPI) 16

30	Compensated Density (Limestone)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0
					LSPD