



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-109-21,377-00-00

Company **Black Tea Oil, LLC**

Well **DFK 5 #1**

Field **Elkader Townsite Southeast**

County **Logan** State **Kansas**

Location **SE SE SW SW**

300' FSL & 1260' FWL

Sec: **35** Twp: **14S** Rge: **32W**

Other Services
DIL
MEL/BHCS

Permanent Datum **Ground Level** Elevation **2632**

Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing** K.B. 2641
D.F. 2632

Date **12/14/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4410**

Depth Logger **4407**

Bottom Logged Interval **4386**

Top Logged Interval **3000**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **5000**

Density **9.2**

Level **Full**

Max. Rec. Temp. F **120**

Operating Rig Time **5 Hours**

Equipment -- Location **15 Hays**

Recorded By **D.Kerr**

Witnessed By **Richard Thomasson**

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. To

1 12.25 00 264 8.625 24# 00 264

2 7.875 264 4410

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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

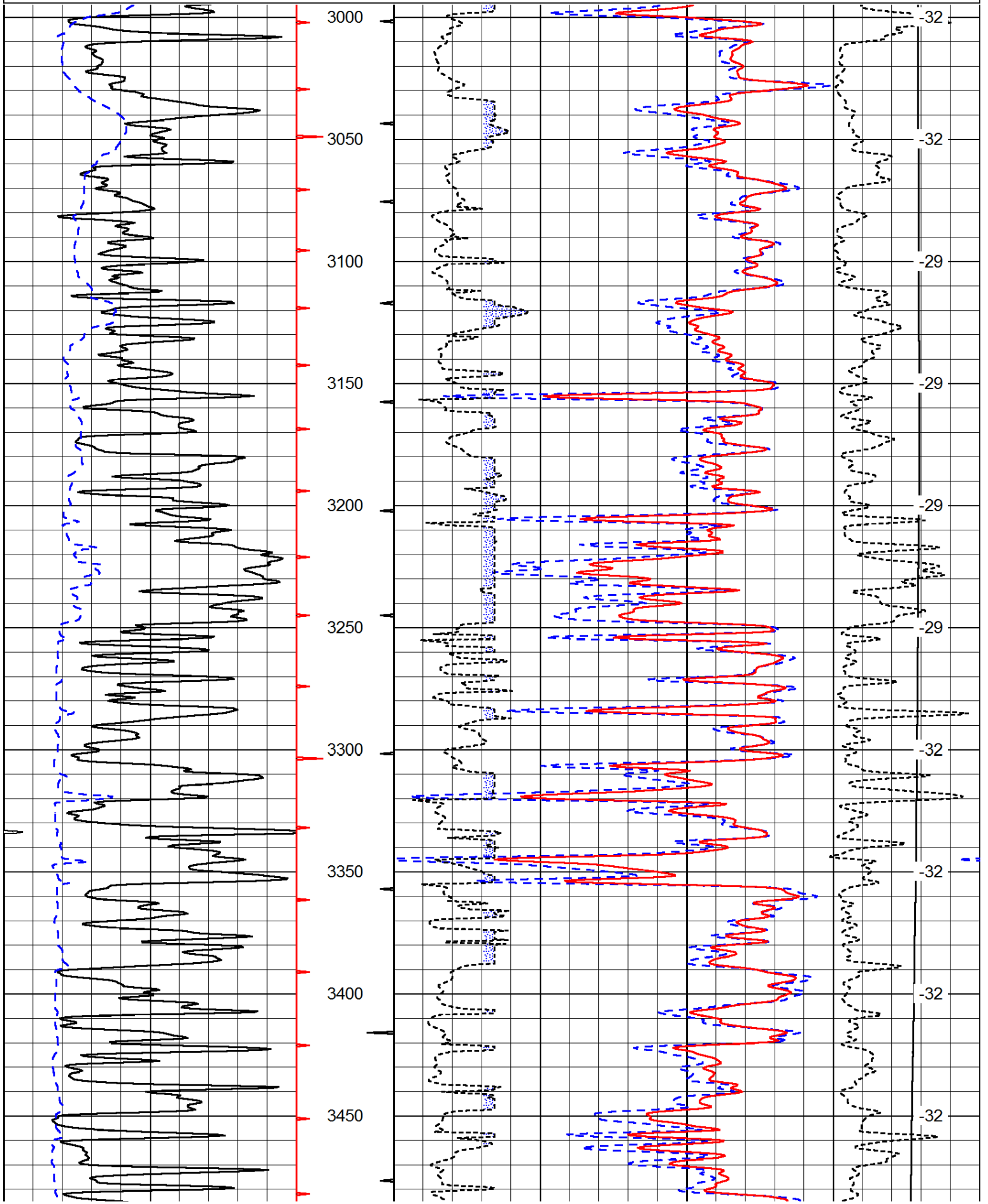
Thank you for using Pioneer Energy Services
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785 625 3858

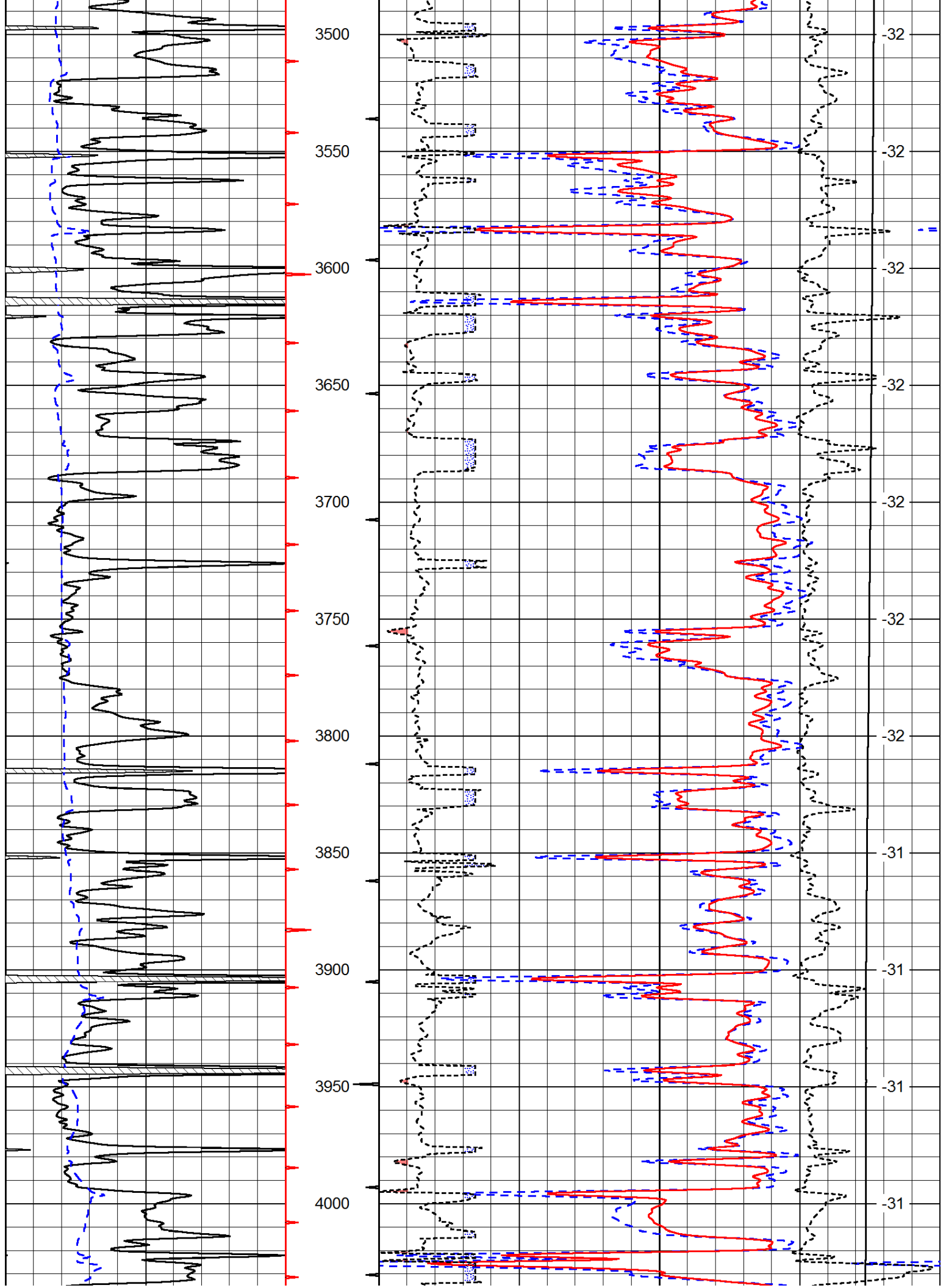
Oakley KS, 23 South to Gold RD, 1/4 East,
North through fence, East and North Into

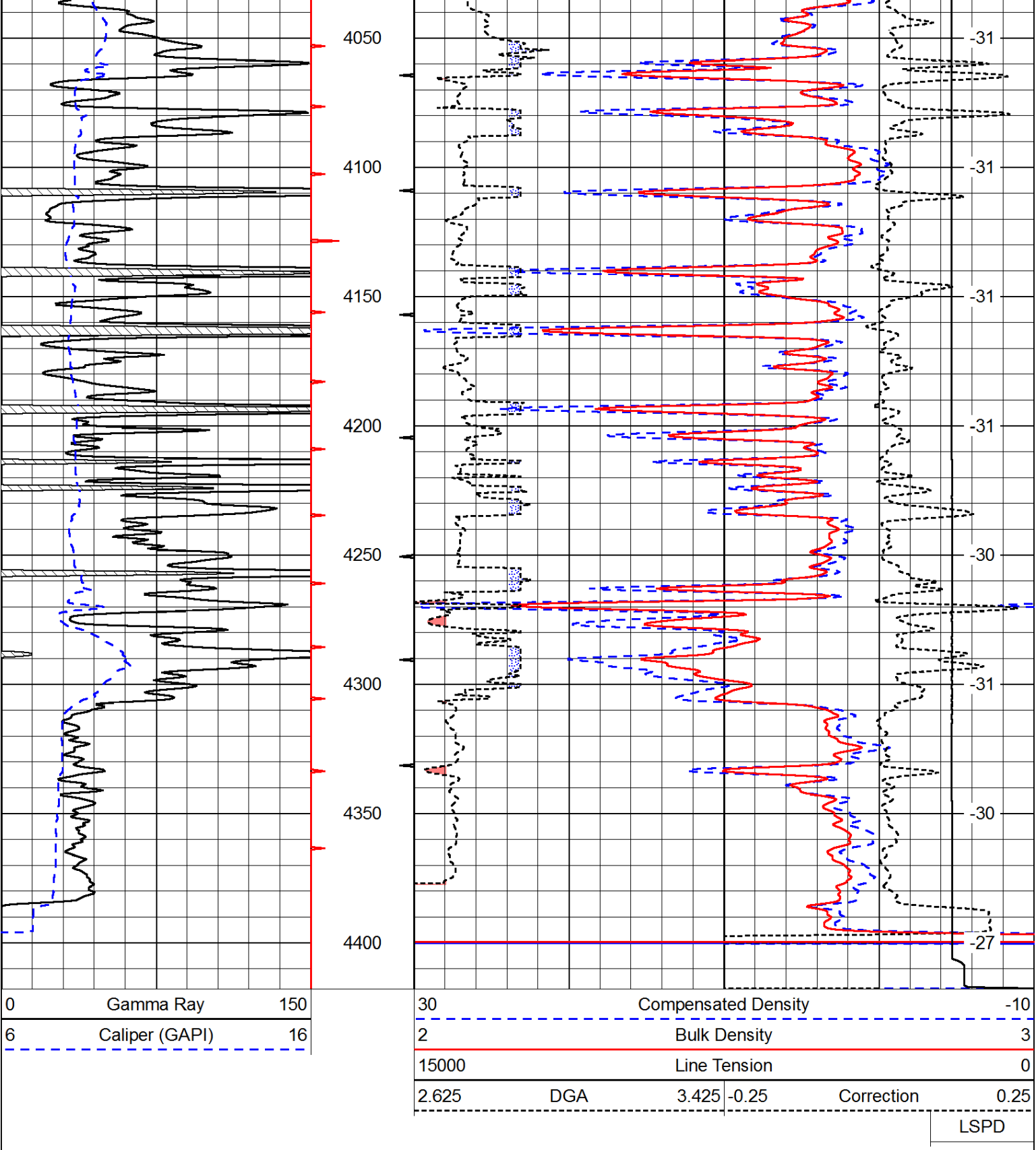
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Dataset Pathname: DIL/btstk
Presentation Format: cdl
Dataset Creation: Sun Dec 14 11:52:37 2014
Charted by: Depth in Feet scaled 1:600

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			

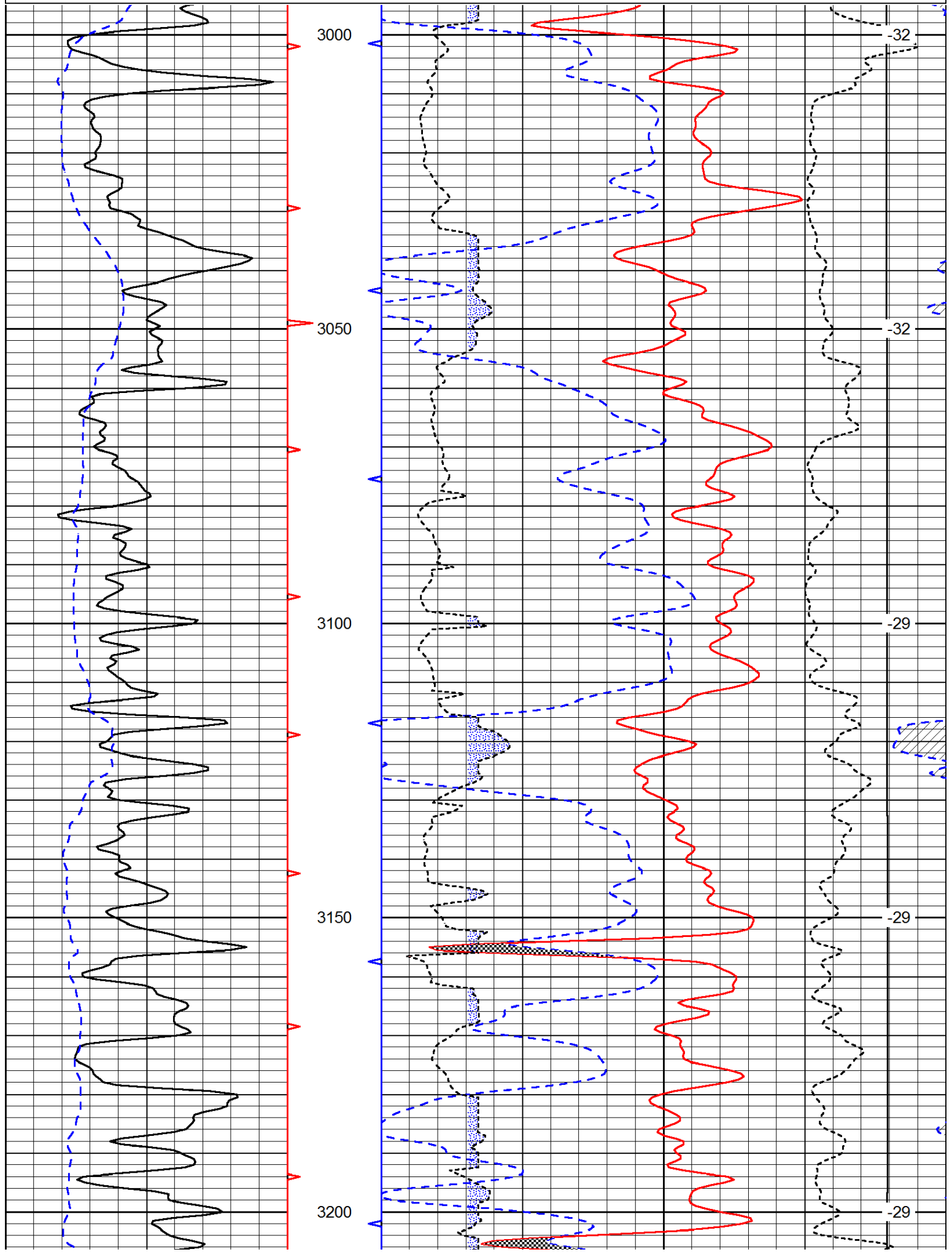


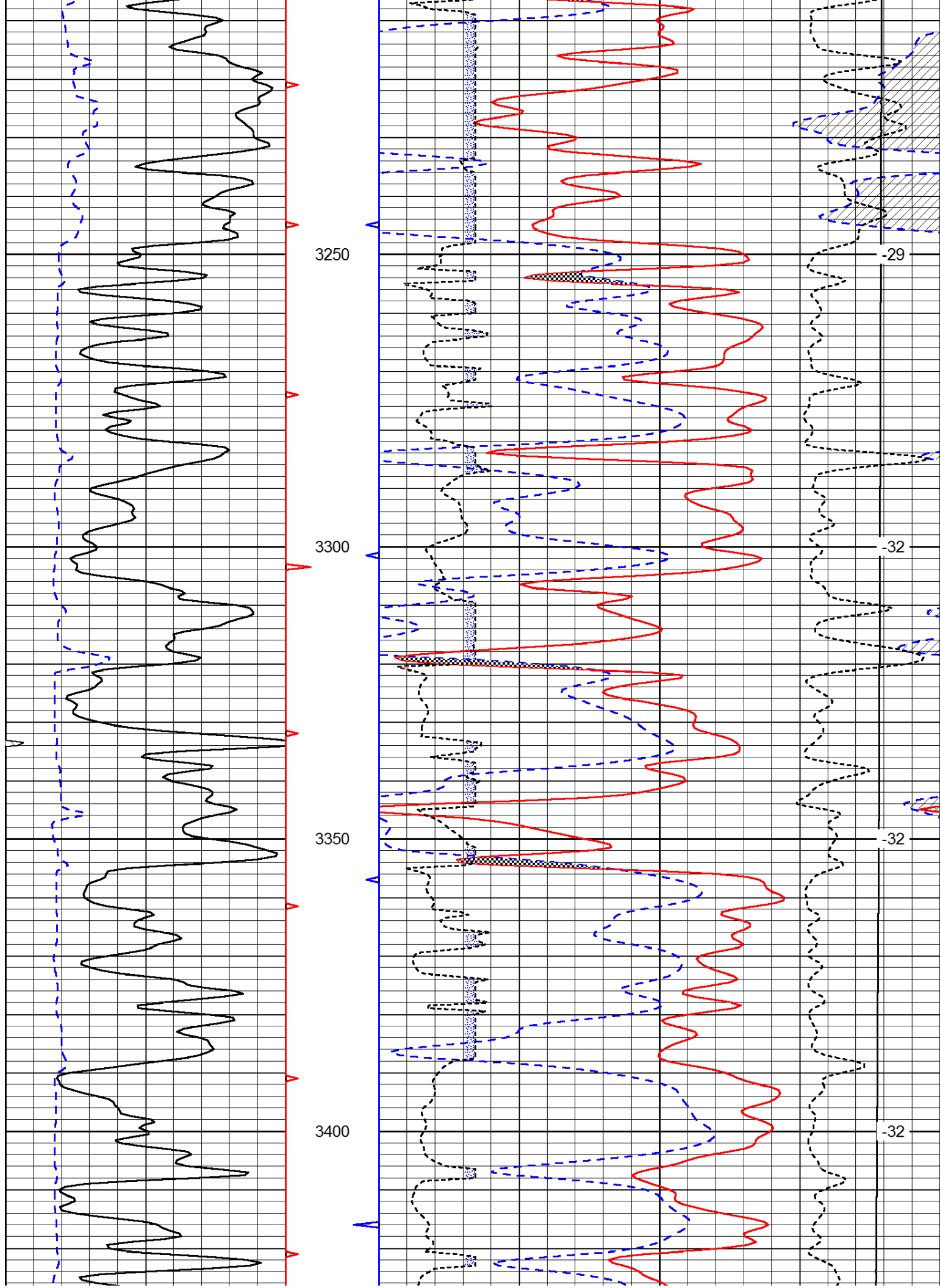


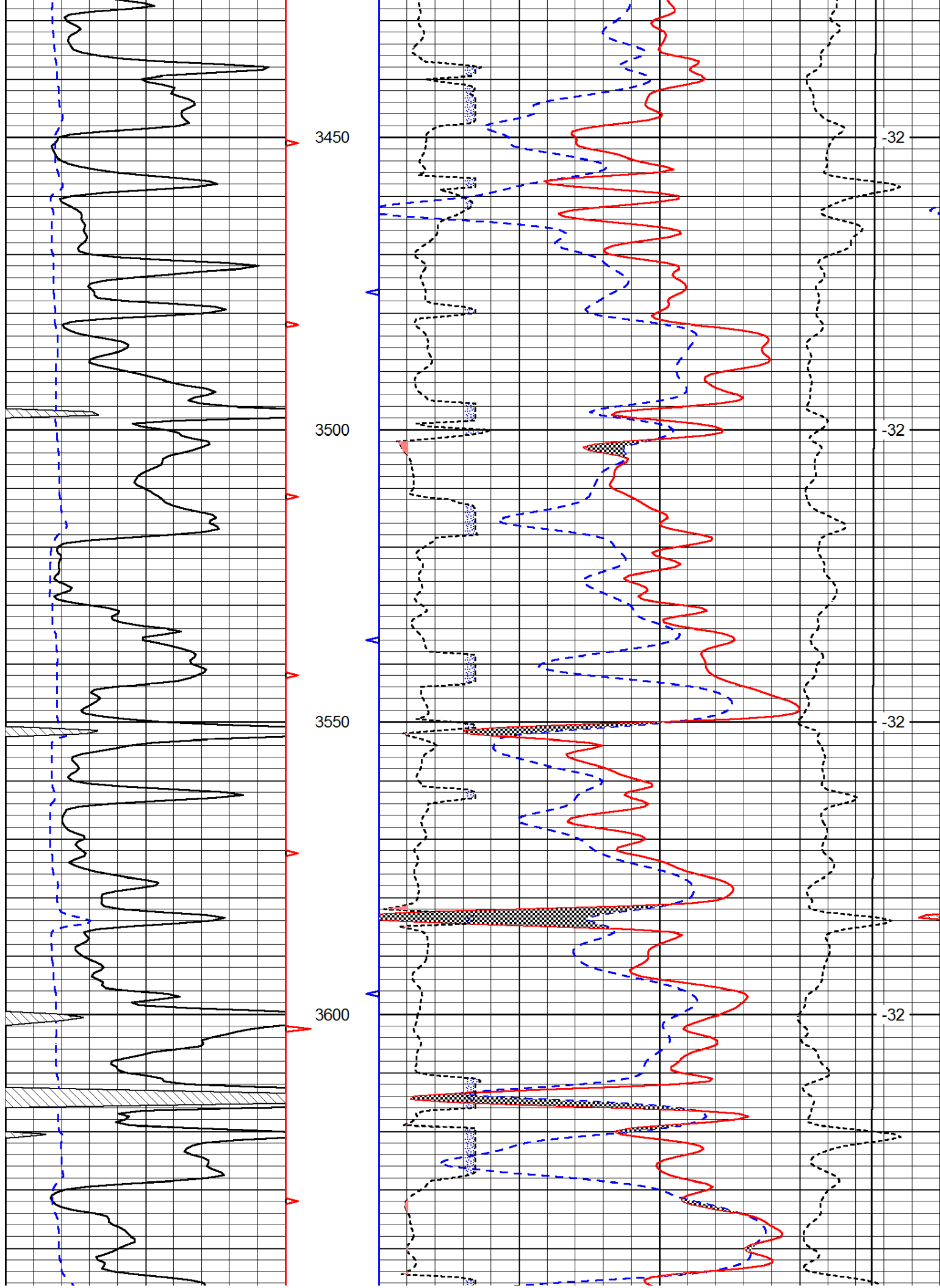


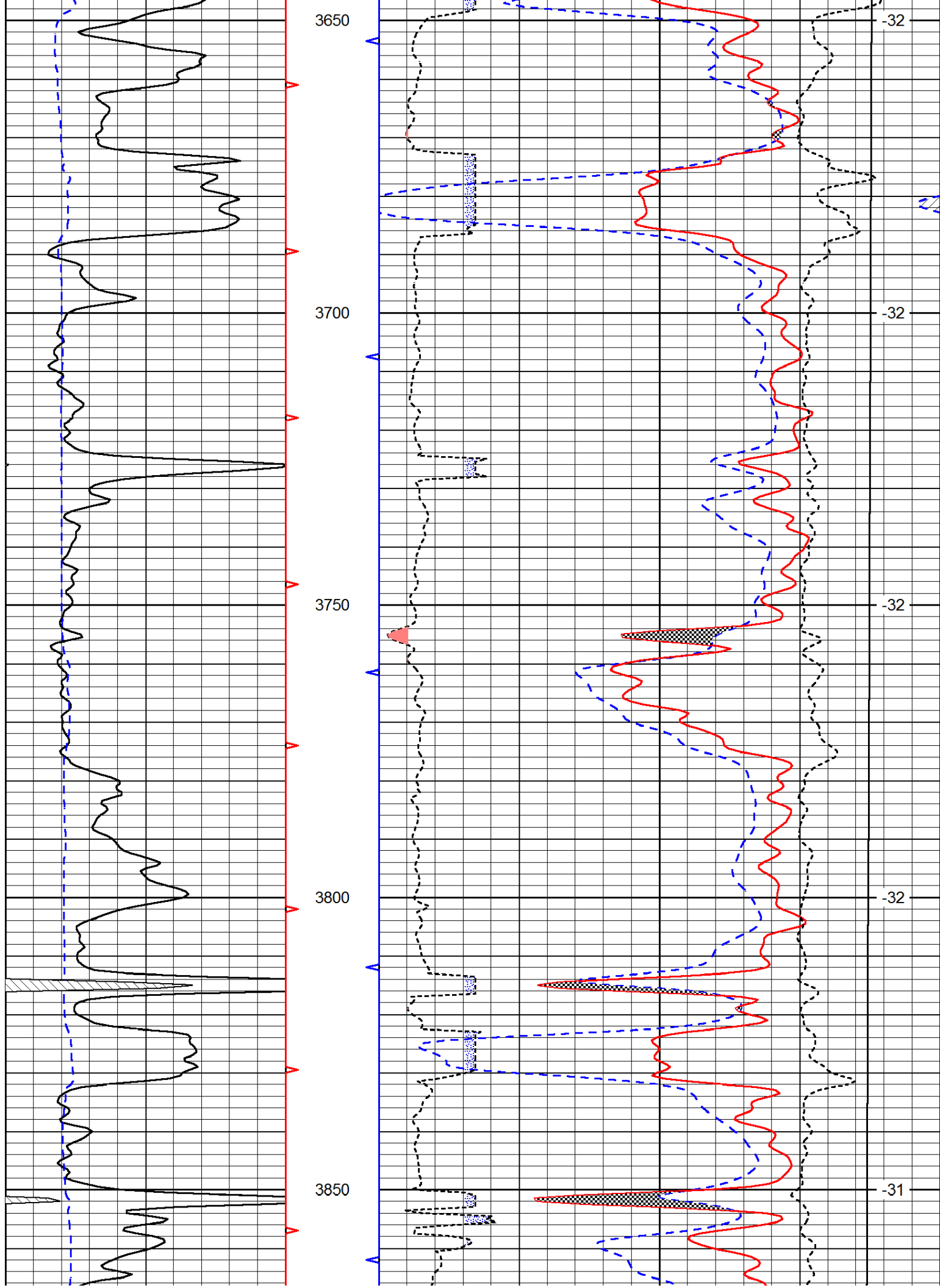
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Dataset Creation:		Sun Dec 14 11:52:37 2014	
Charted by:		Depth in Feet scaled 1:240	

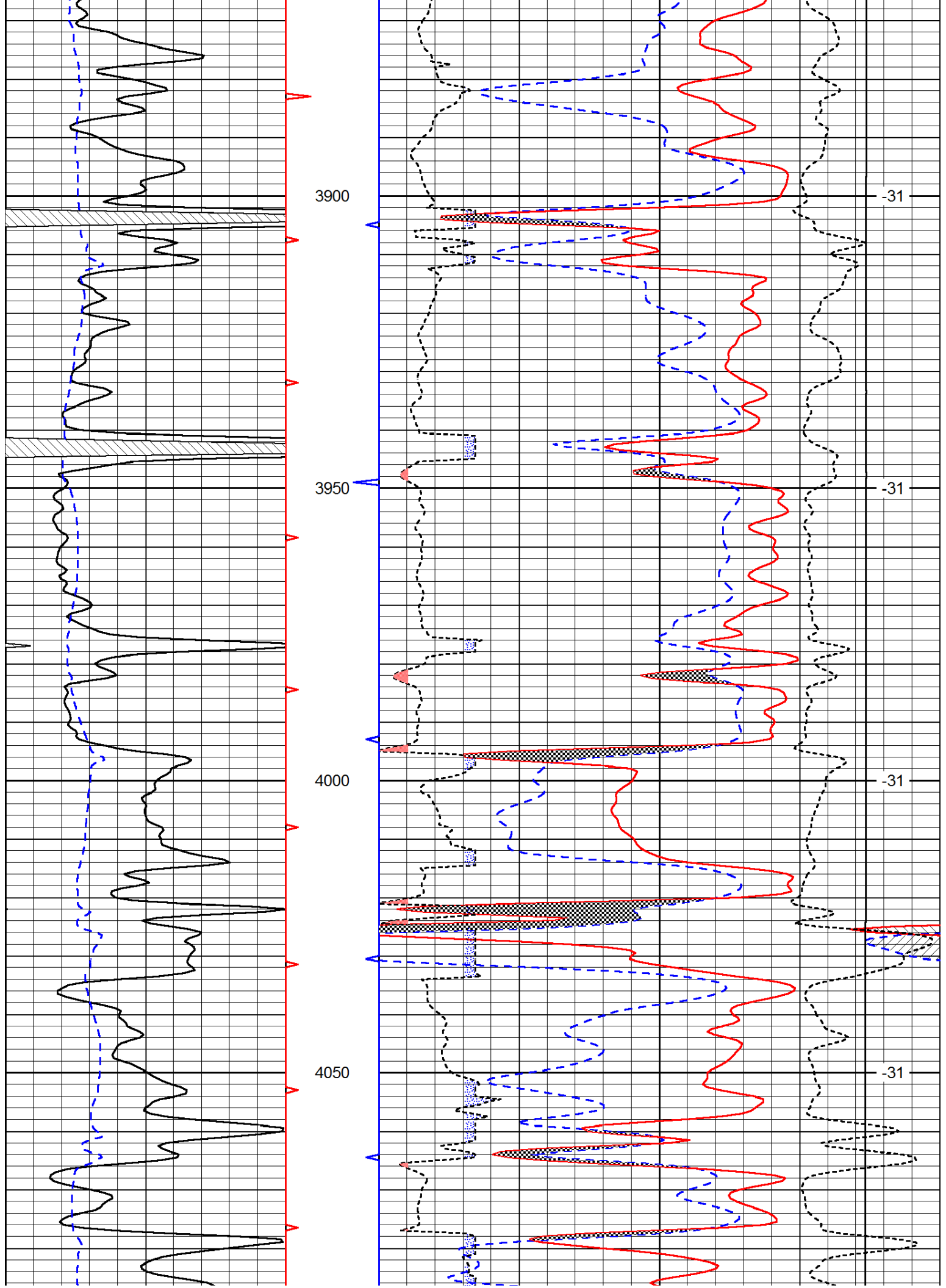
0	Gamma Ray	150	30	Compensated Neutron (Limestone)		-10
6	Caliper (GAPI)	16	30	Compensated Density (Limestone)		-10
			2.625	DGA	3.425	-0.25
			Correction		0.25	
			15000	Line Tension		0

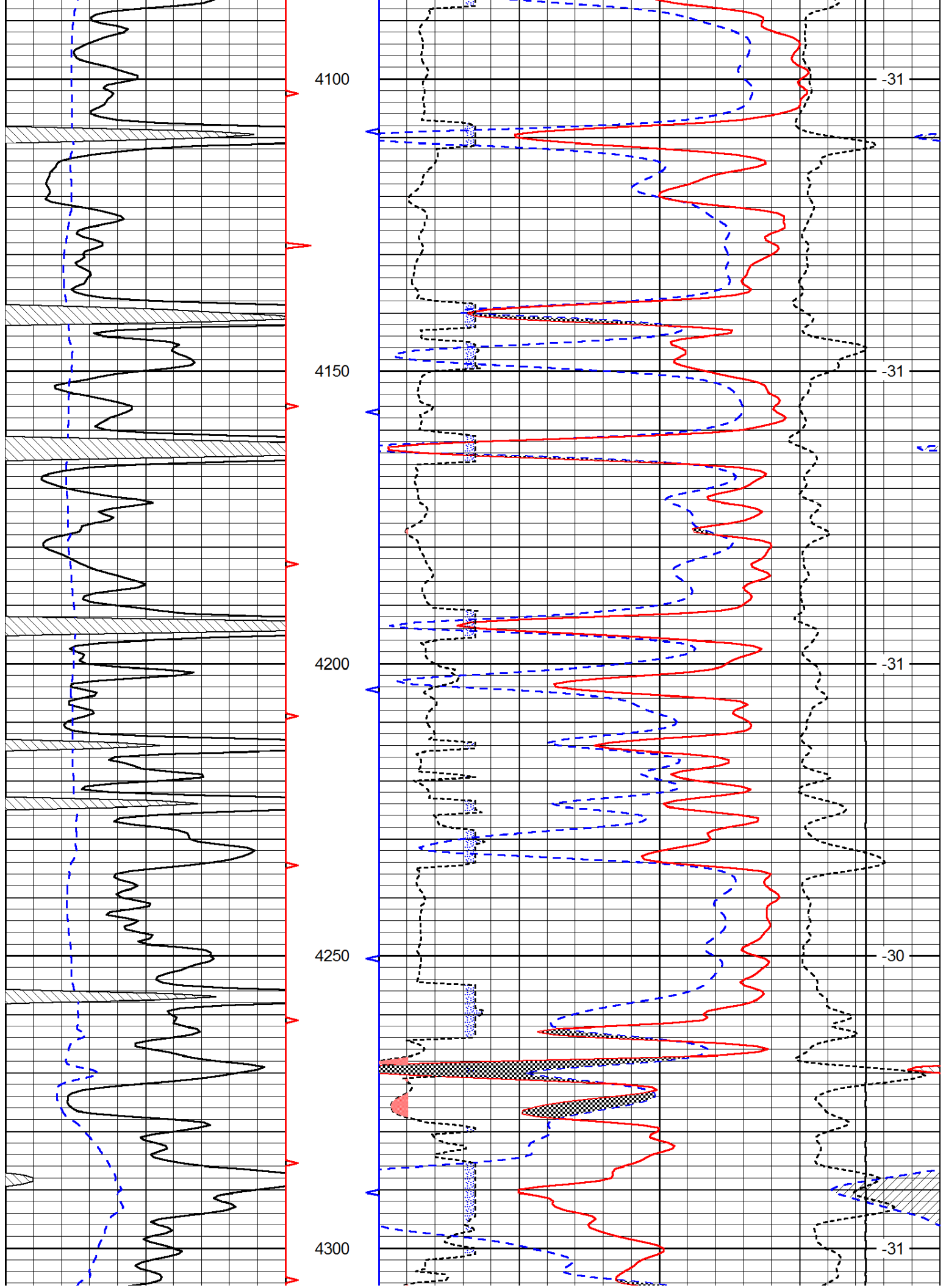


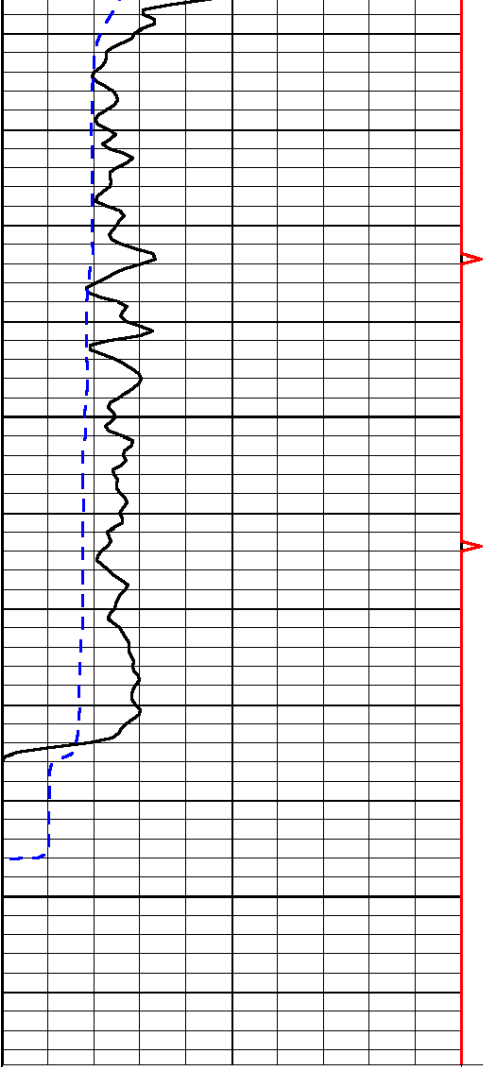








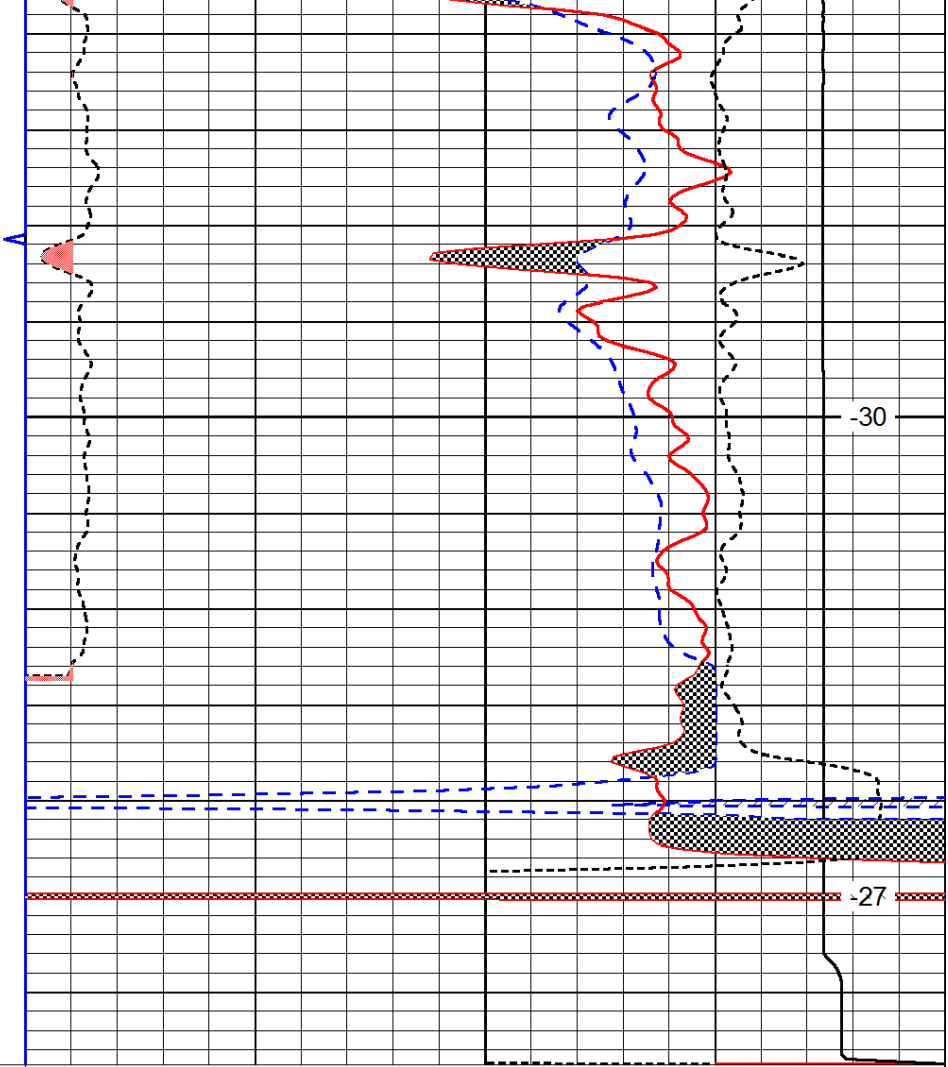




4350

4400

0	Gamma Ray	150
6	Caliper (GAPI)	16



-30

-27

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