PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-193-20904-00-00

Company Norstar Petroleum, Inc.

Well BA Kern Trust # 1-30

Field Unnamed

County Thomas State Kansas

Location 2232' FSL & 840' FEL

Sec: 30 Twp: 10 S Rge: 34 W

Other Services
DIL
MEL

Elevation
K.B. 3253
D.F.
G.L. 3243

Permanent Datum Ground Level Elevation 3243
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	1/8/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	4850
Depth Logger	4854
Bottom Logged Interval	4833
Top Logged Interval	3700
Type Fluid In Hole	Chemical
Salinity, PPM CL	5400
Density	9.4
Level	Full
Max. Rec. Temp. F	127
Operating Rig Time	4 Hours
Equipment -- Location	91 Hays
Recorded By	Y. Ruiz
Witnessed By	Bob Elder

Borehole Record

Run No.	Bit	From	To
1	12.25	00	276
2	7.875	276	4850

Casing Record

Size	Wgt.	From	To
8.625	24#	00	276

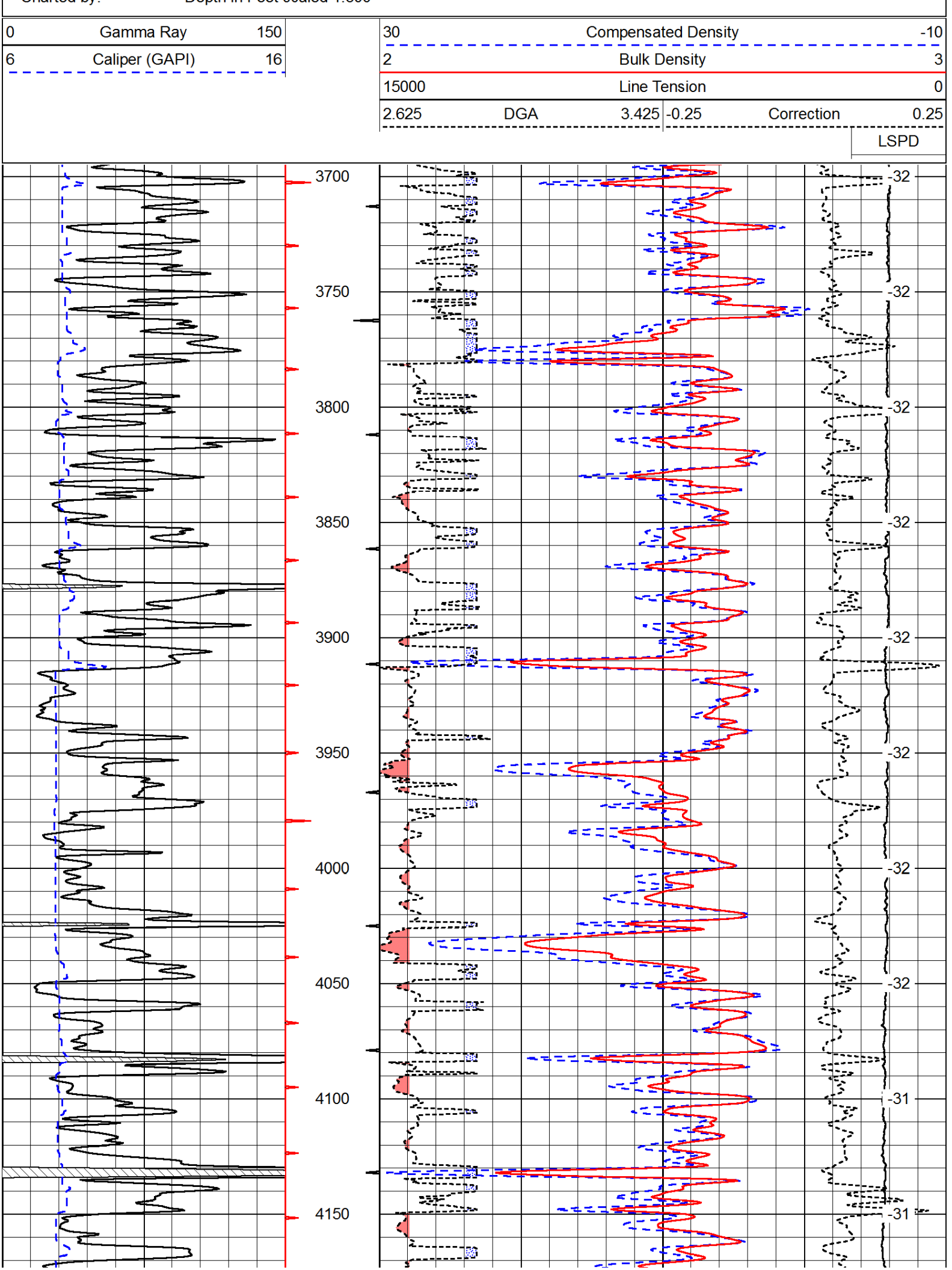
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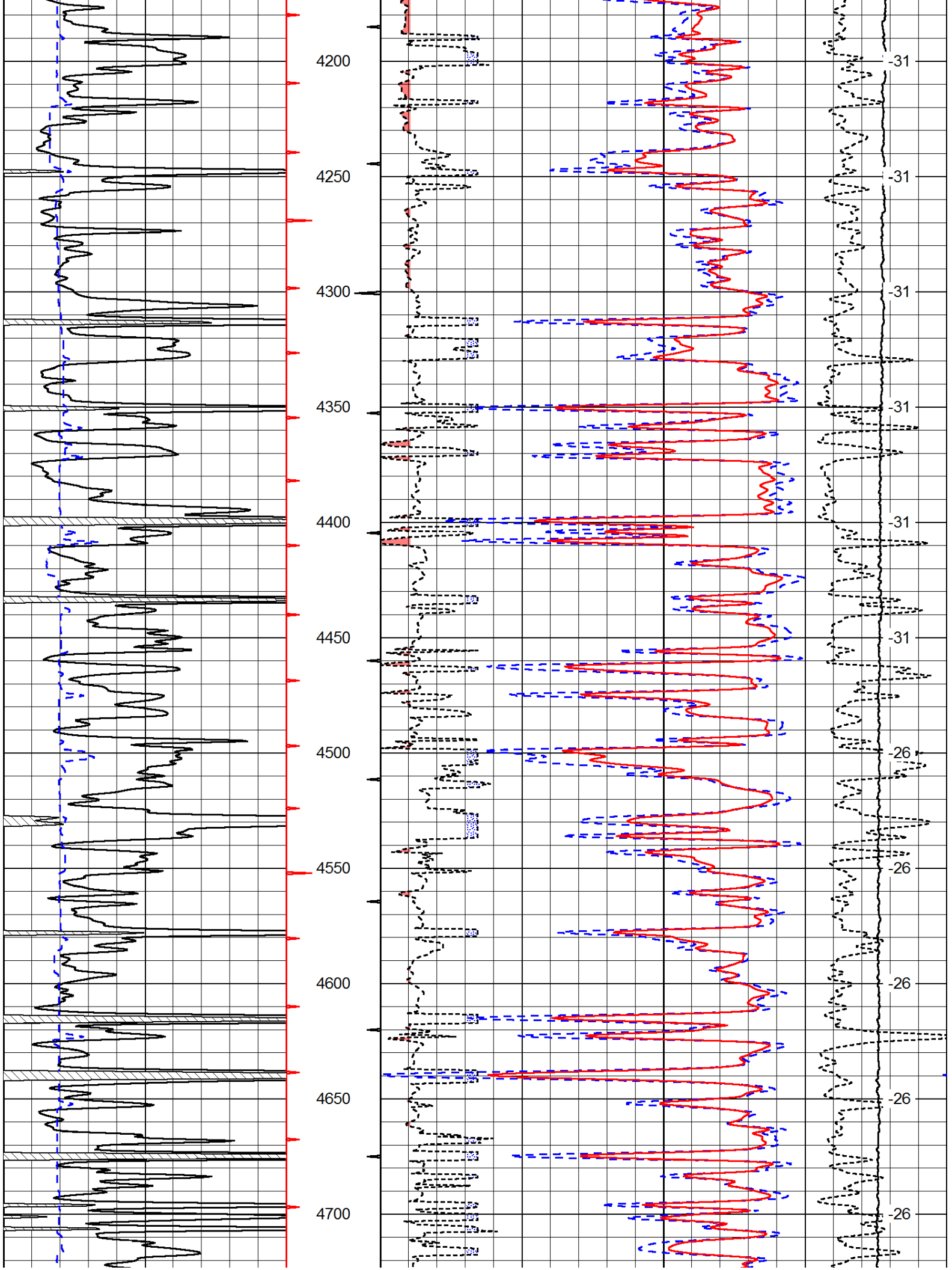
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

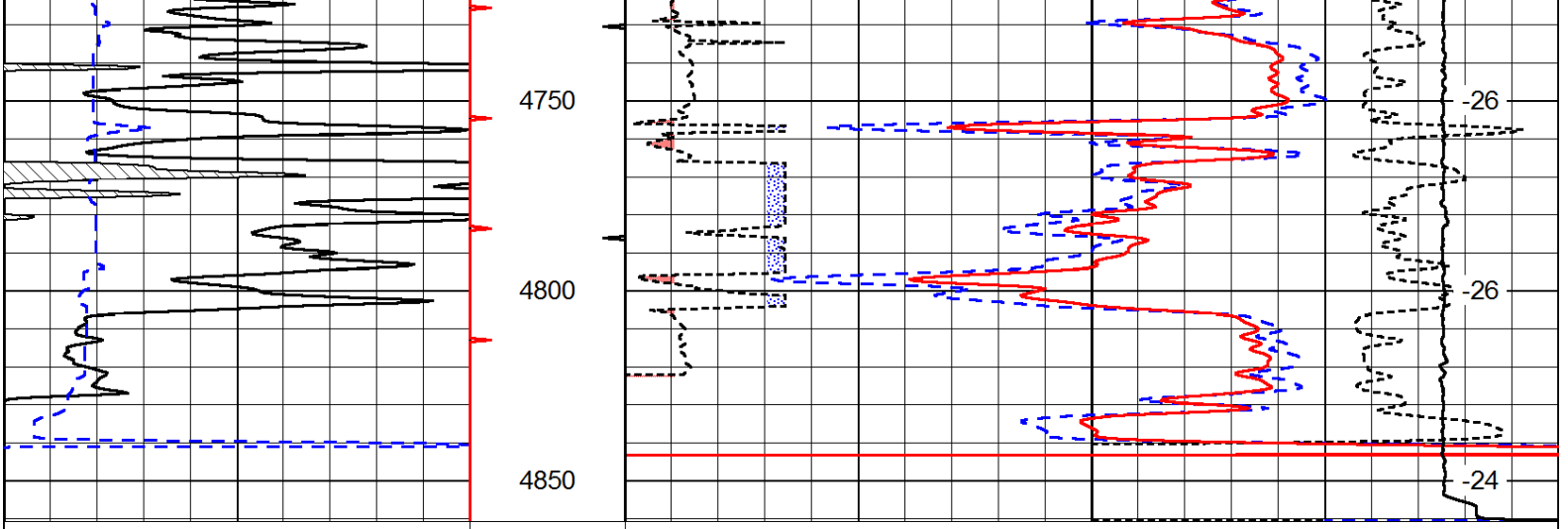
Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858
Monument,
2 West to Hwy 25, 2 North To County Line "A Rd",
5 West To 14 Rd, 1 1/2 North,
West into

Database File:	c:\warrior\data\norstar_ba kern trust #1-30\norstar_010814hd.db
Dataset Pathname:	DIL/norstk
Presentation Format:	cdl
Dataset Creation:	Thu Jan 09 00:35:15 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
2.625 DGA 3.425
-0.25 Correction 0.25
LSPD
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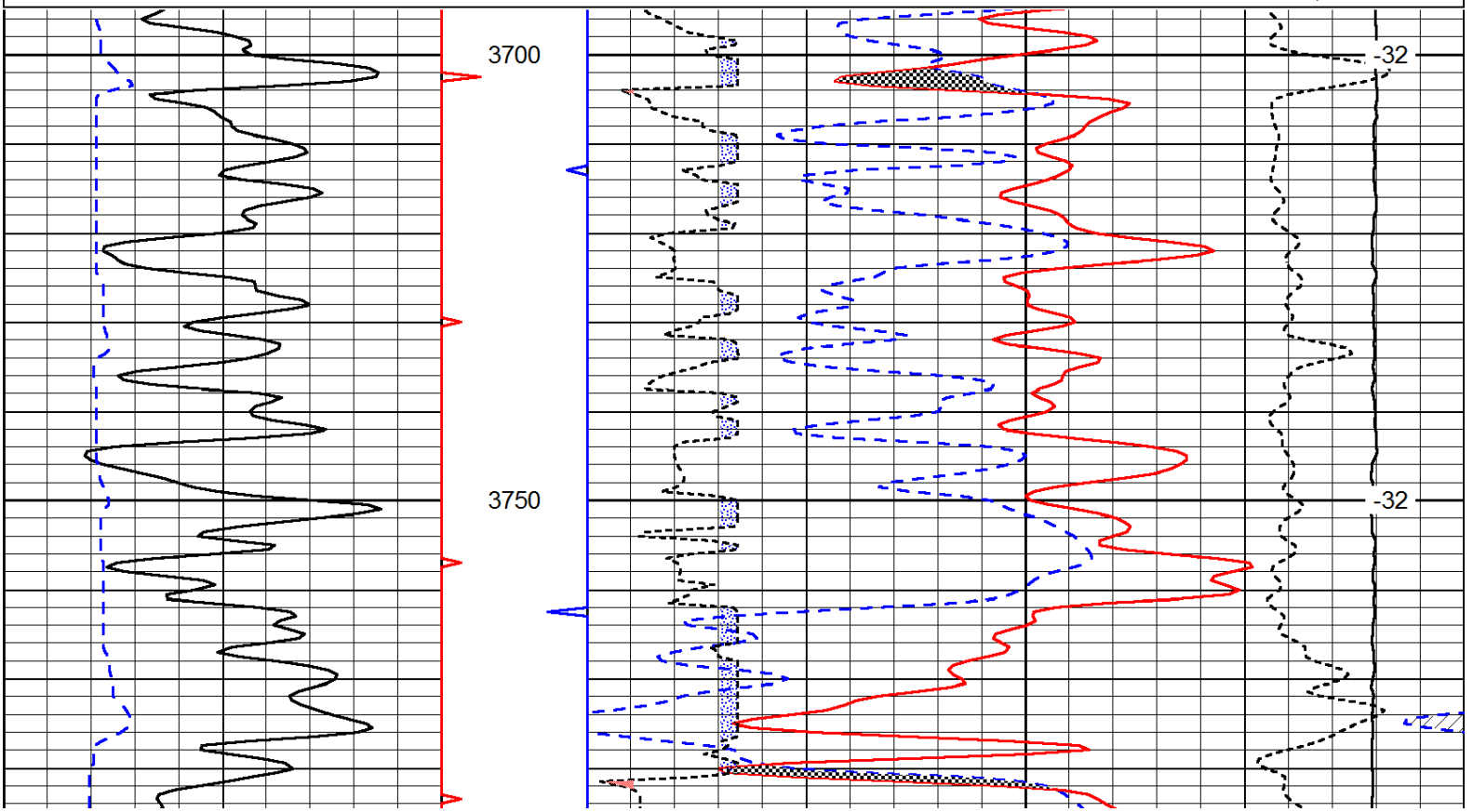
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6	Caliper (GAPI)	16

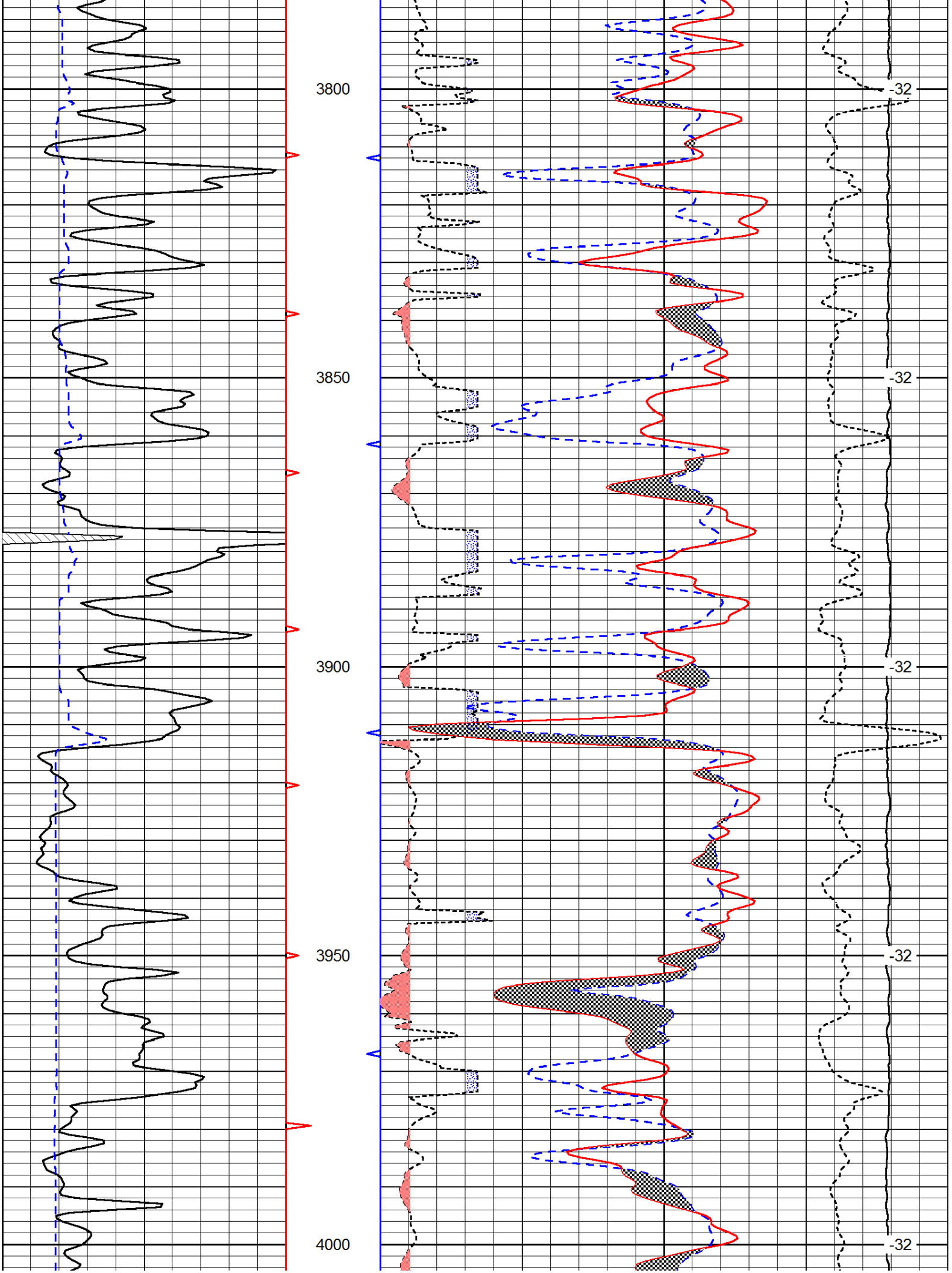
30	Compensated Density				-10
2	Bulk Density				3
15000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
					LSPD

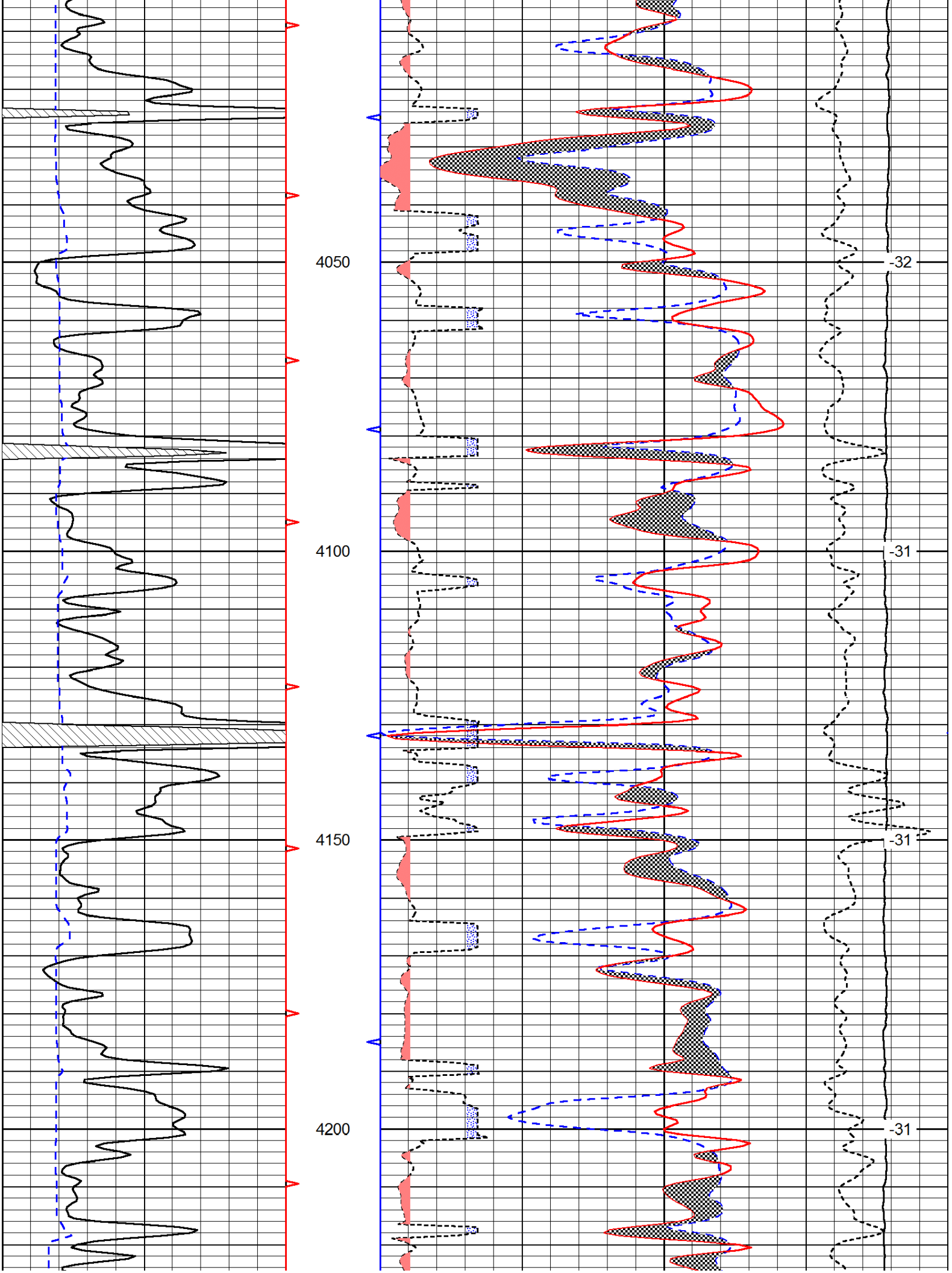
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Presentation Format: cndlspec
Dataset Creation: Thu Jan 09 00:35:15 2014
Charted by: Depth in Feet scaled 1:240

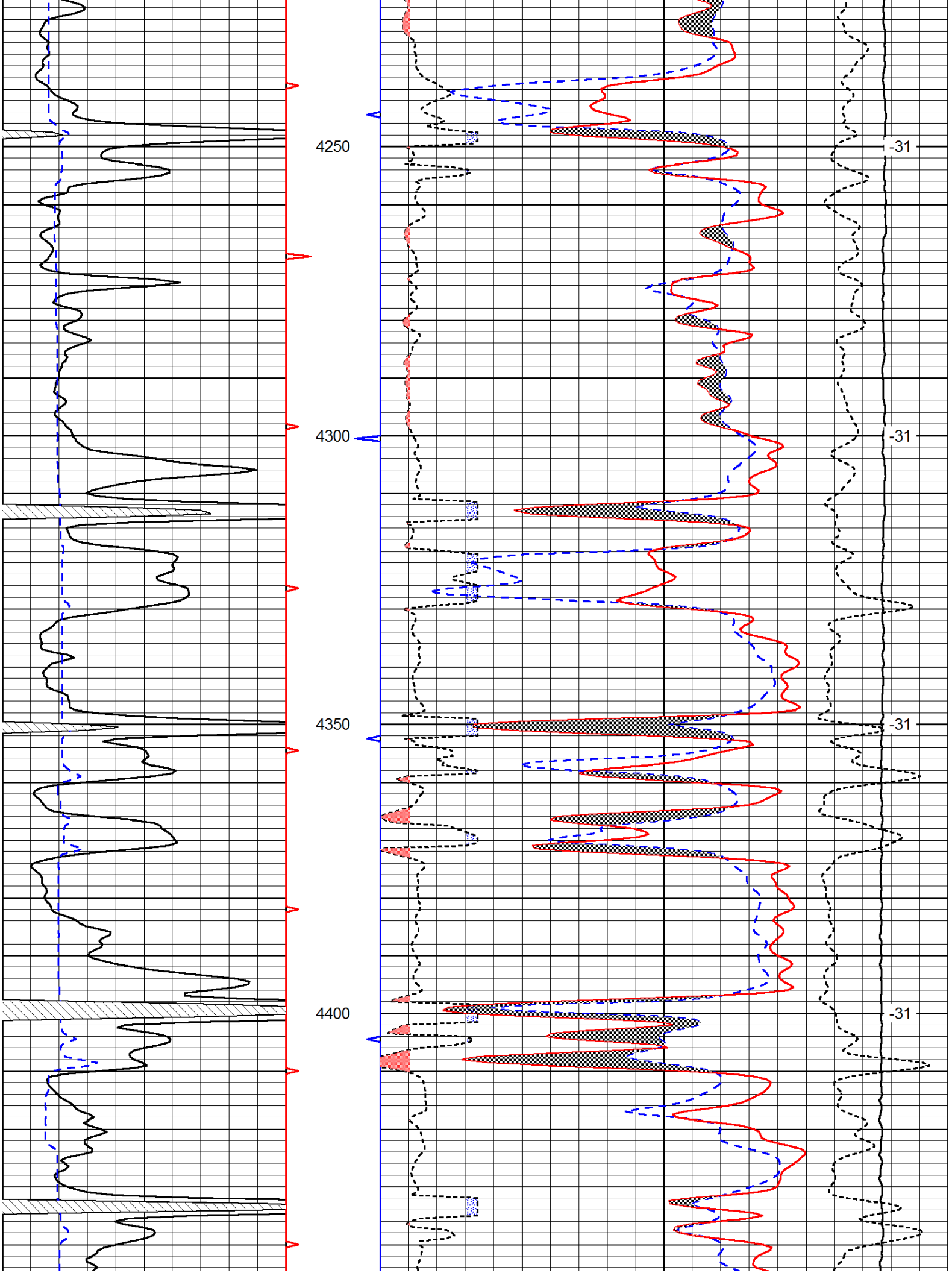
0	Gamma Ray	150
6	Caliper (GAPI)	16

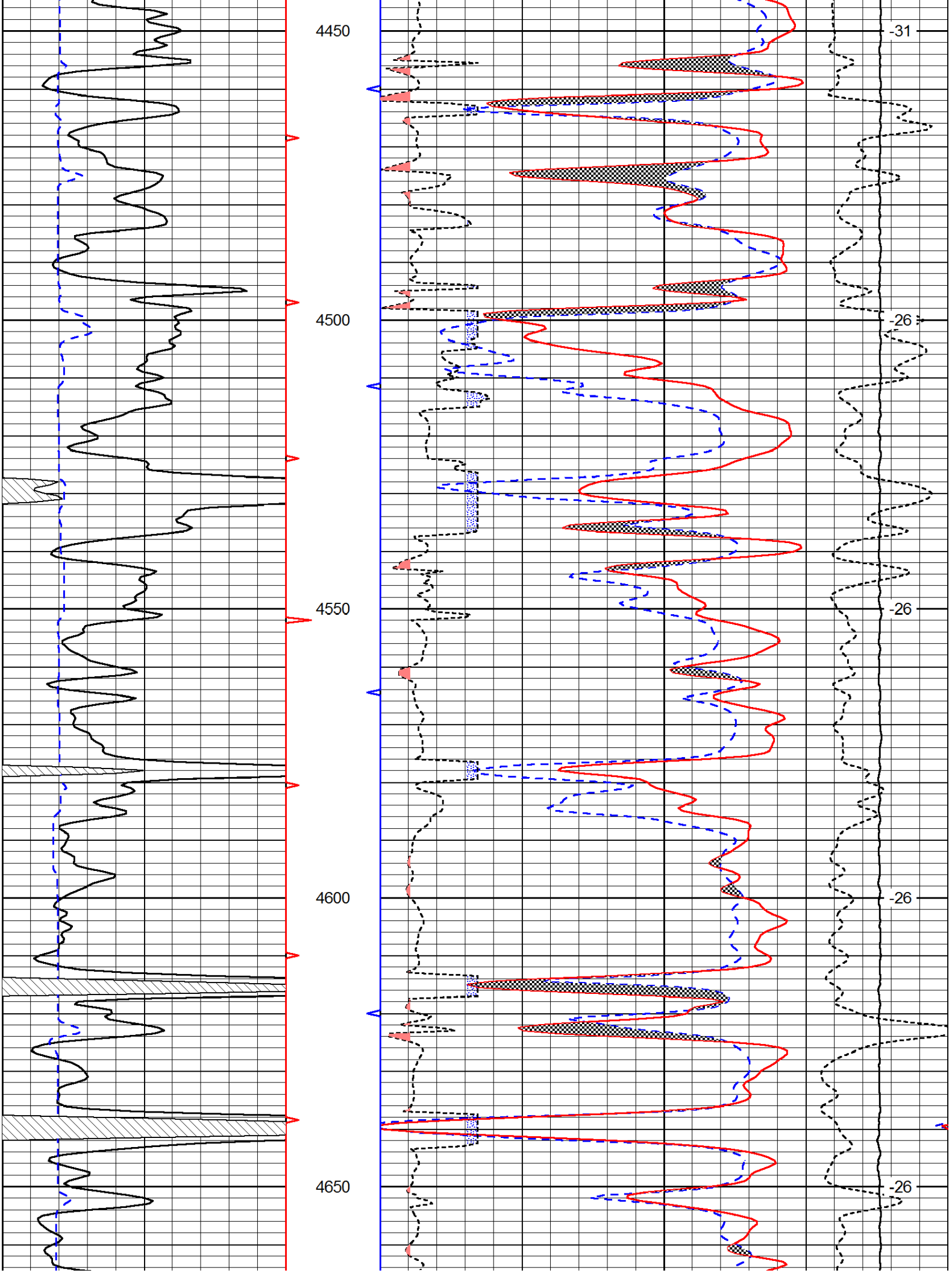
30	Compensated Neutron (Limestone)				-10
30	Compensated Density (Limestone)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0
					LSPD

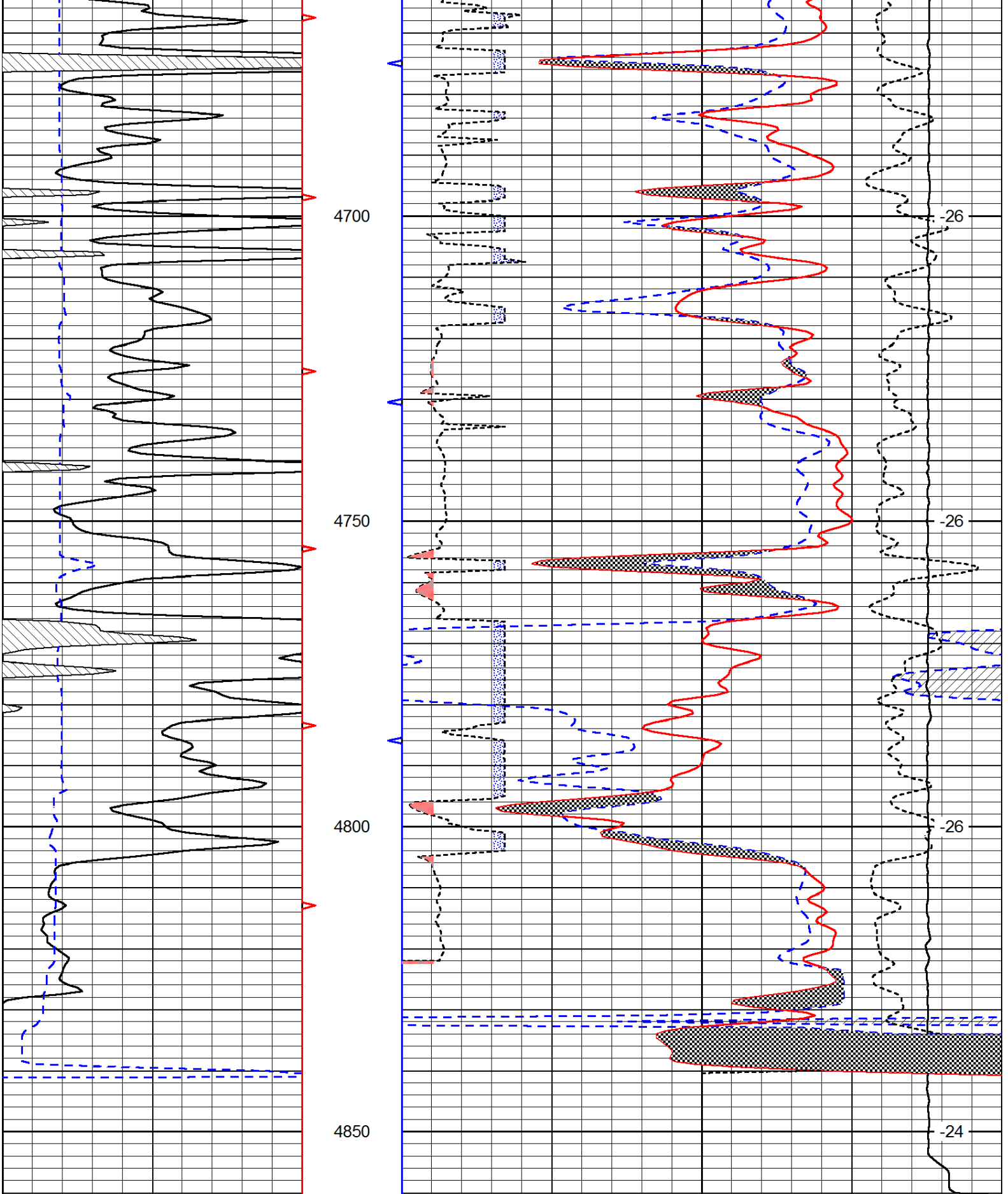



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0	Gamma Ray	150
6	Caliper (GAPI)	16

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