



Pioneer Energy Services

## Dual Compensated Porosity Log

15-145-21,720-00-00

API No.

**Company** Toto Energy, LLC  
**Well** Greene Machine #23-1  
**Field** Carpenter  
**County** Pawnee **State** Kansas

**Location** S2-NE-NE-SE  
 2290' FSL & 330' FEL  
**Sec:** 23 **Twp:** 23S **Rge:** 17W

**Other Services**  
 DIL  
 MEL

**Permanent Datum** Ground Level Elevation 2077  
**Log Measured From** Kelly Bushing 11 Ft. Above Perm. Datum  
**Drilling Measured From** Kelly Bushing

**Elevation**  
 K.B. 2088  
 D.F. 2077  
 G.L. 2077

Date	4/2/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	4560
Depth Logger	4559
Bottom Logged Interval	4538
Top Logged Interval	3400
Type Fluid In Hole	Chemical
Salinity, PPM CL	7.100
Density	9.5
Level	Full
Max. Rec. Temp. F	122
Operating Rig Time	4 Hours
Equipment -- Location	15 Hays
Recorded By	J. Henrickson
Witnessed By	Sean Deenihan

Borehole Record		Casing Record	
Run No.	Bit From To	Size	Wgt. To
1	12.25 00	8.625	24#
2	7.875 270	4560	270

<<< Fold Here >>>

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**

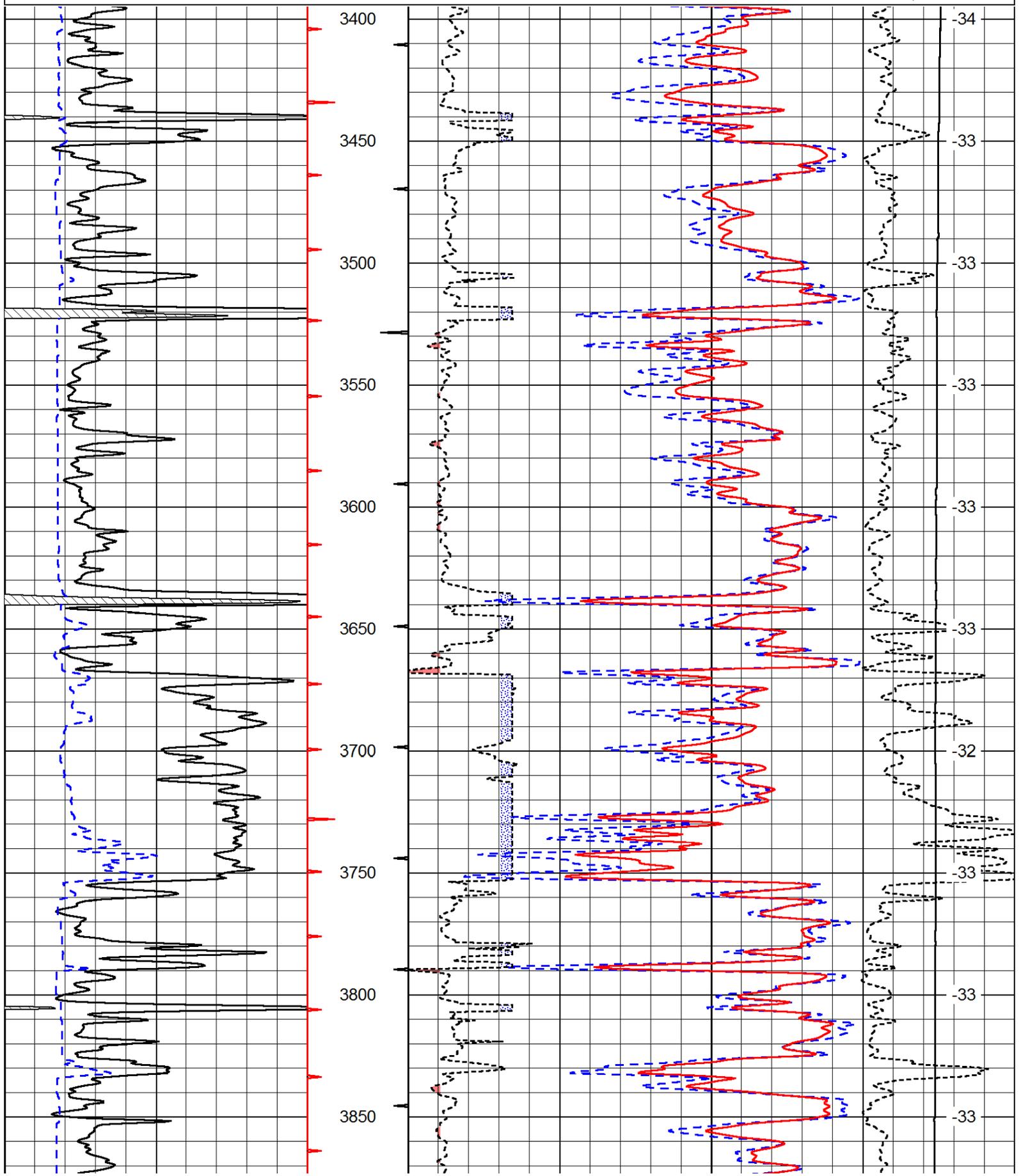
Thank you for using Pioneer Energy Services  
[www.pioneerenergy.com](http://www.pioneerenergy.com)  
 785 625 3858

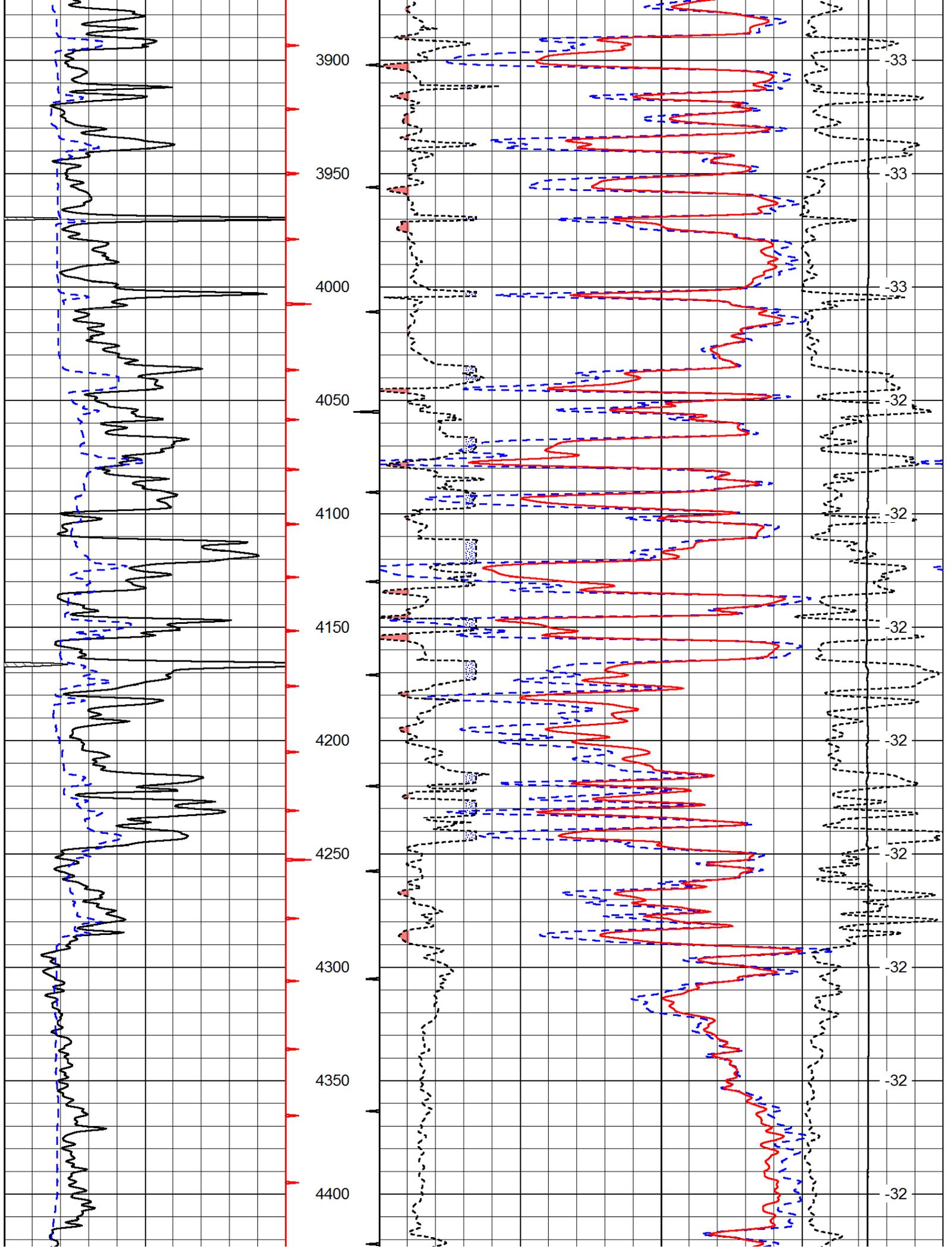
Larned Kansas  
 South on HWY 19 to D Rd, 3 West, 1/2 South, West Into

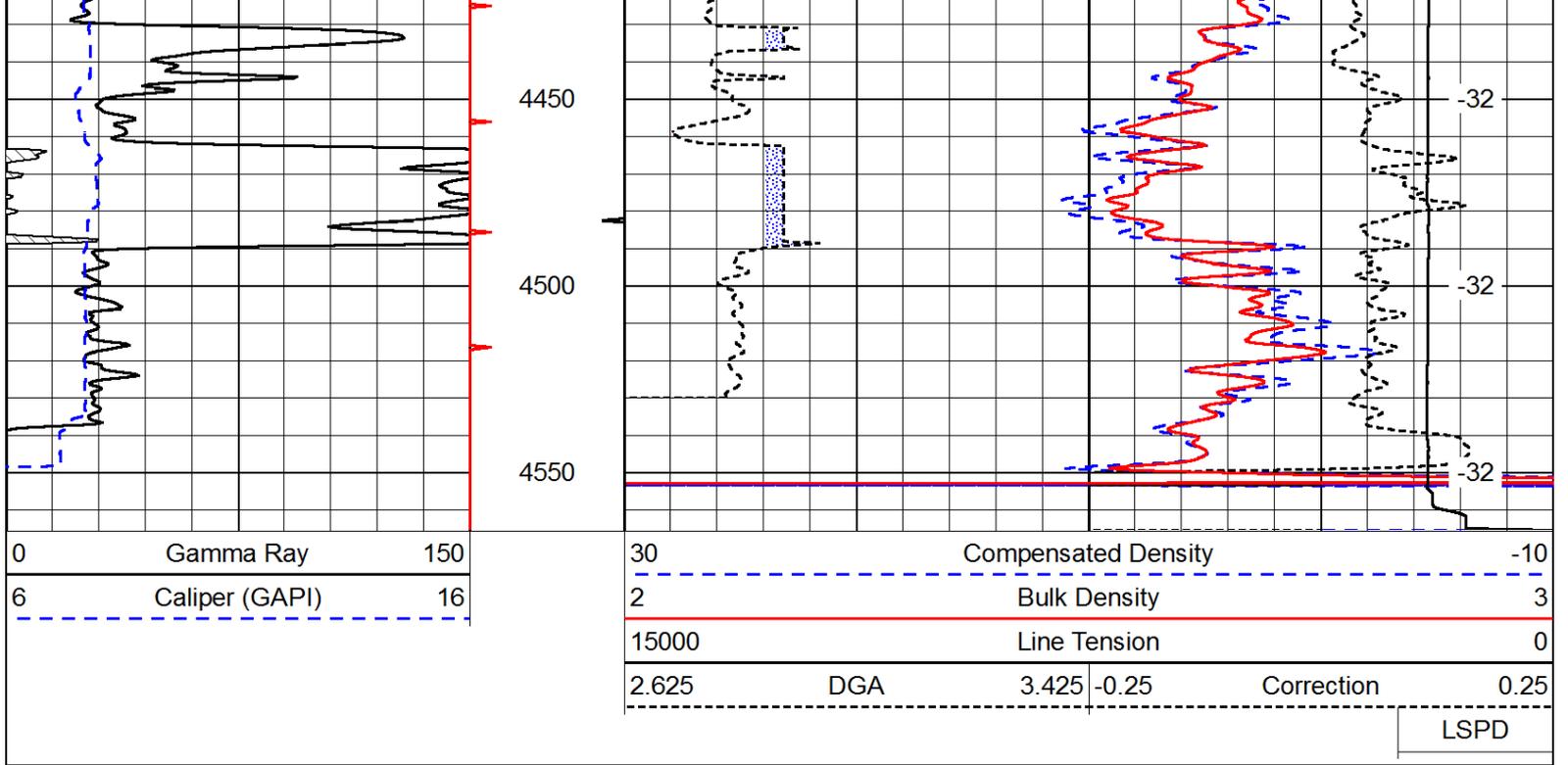
Database File: c:\warrior\data\toto\_greene machine #23-1\toto\_greene\_machine\_23\_1hd.db  
 Dataset Pathname: DIL\totostk  
 Presentation Format: cdl  
 Dataset Creation: Wed Apr 02 22:35:21 2014  
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

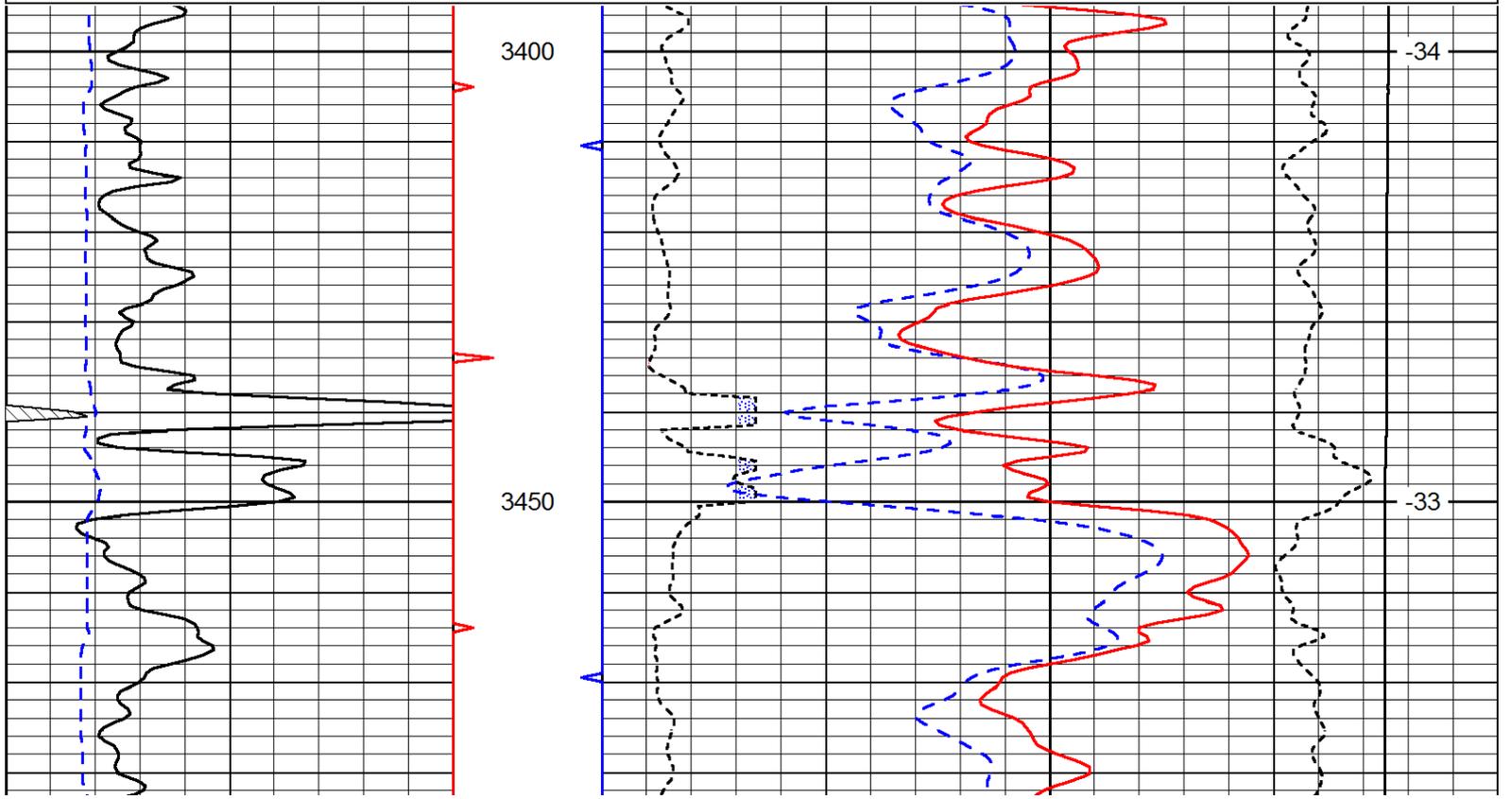
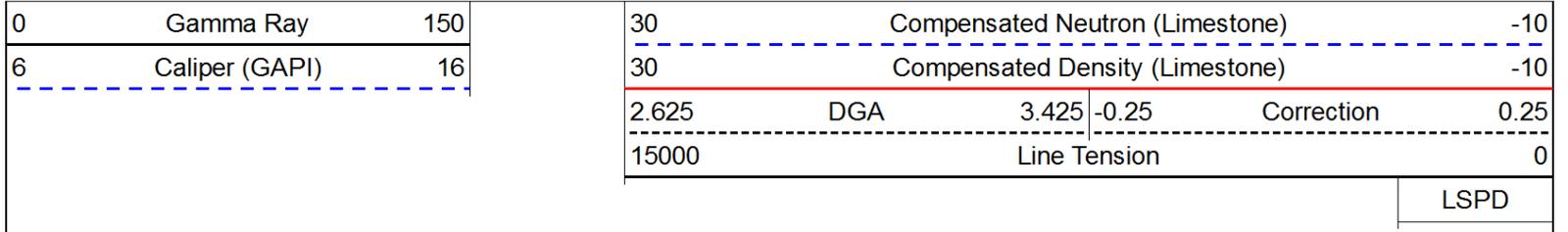
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25
LSPD			

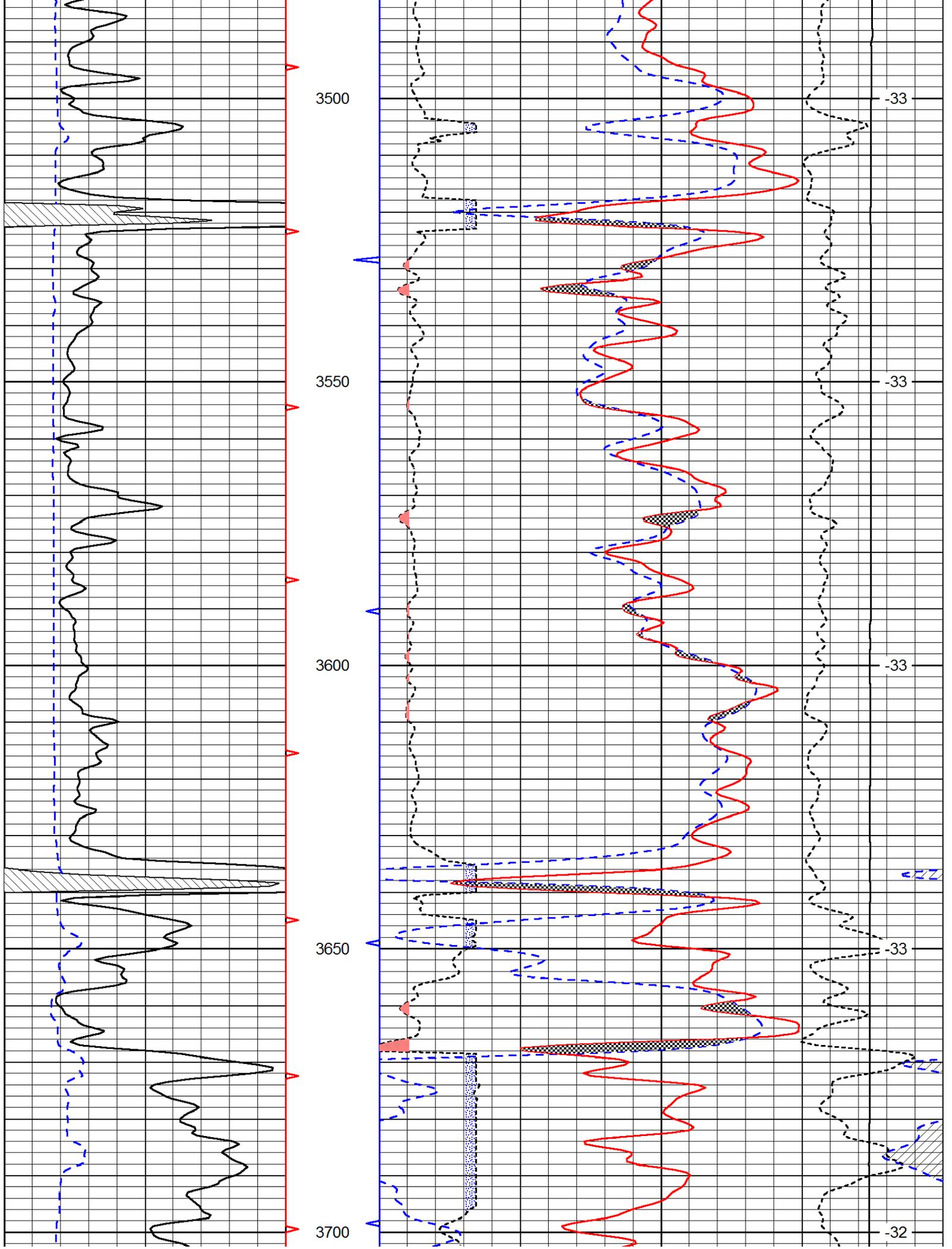


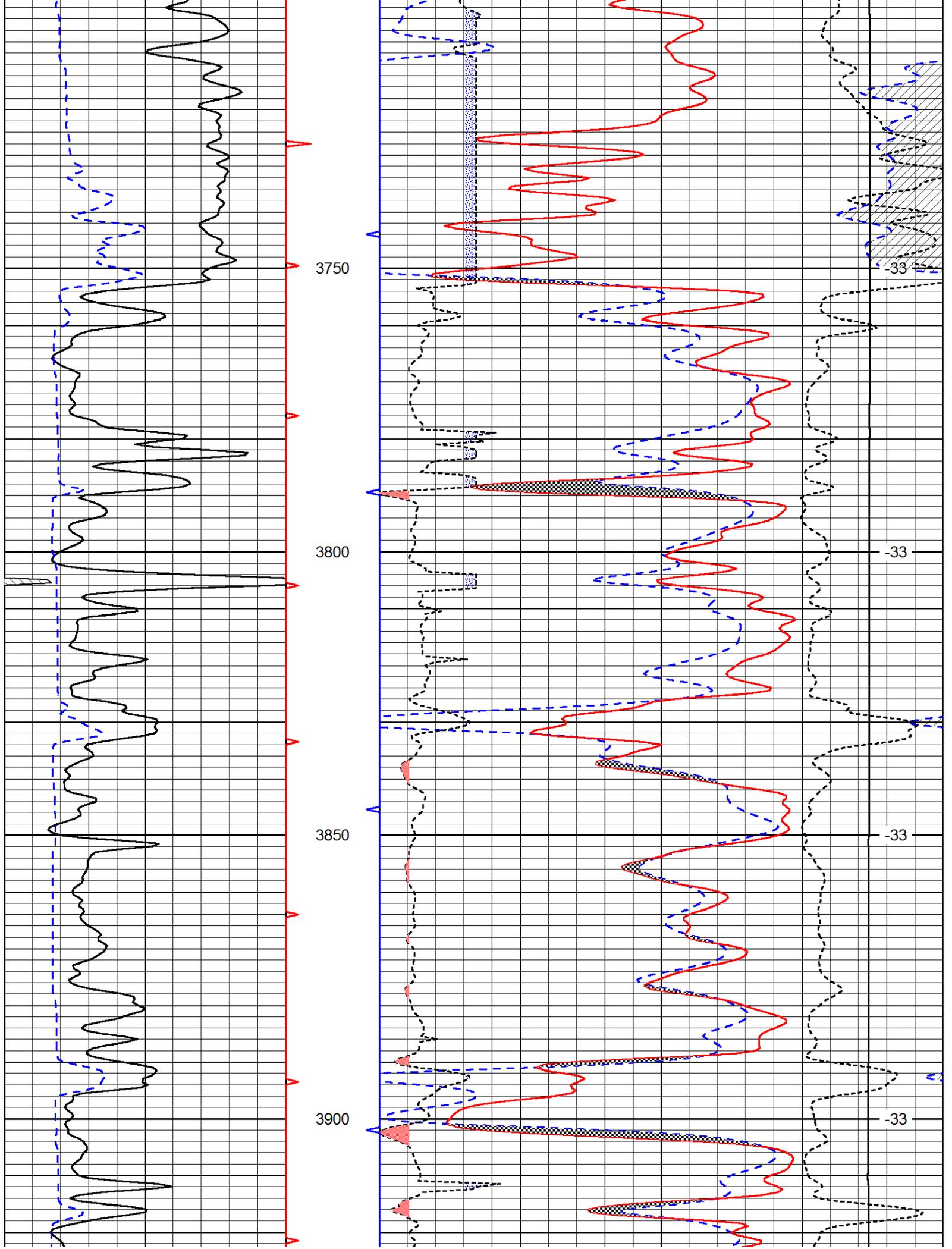


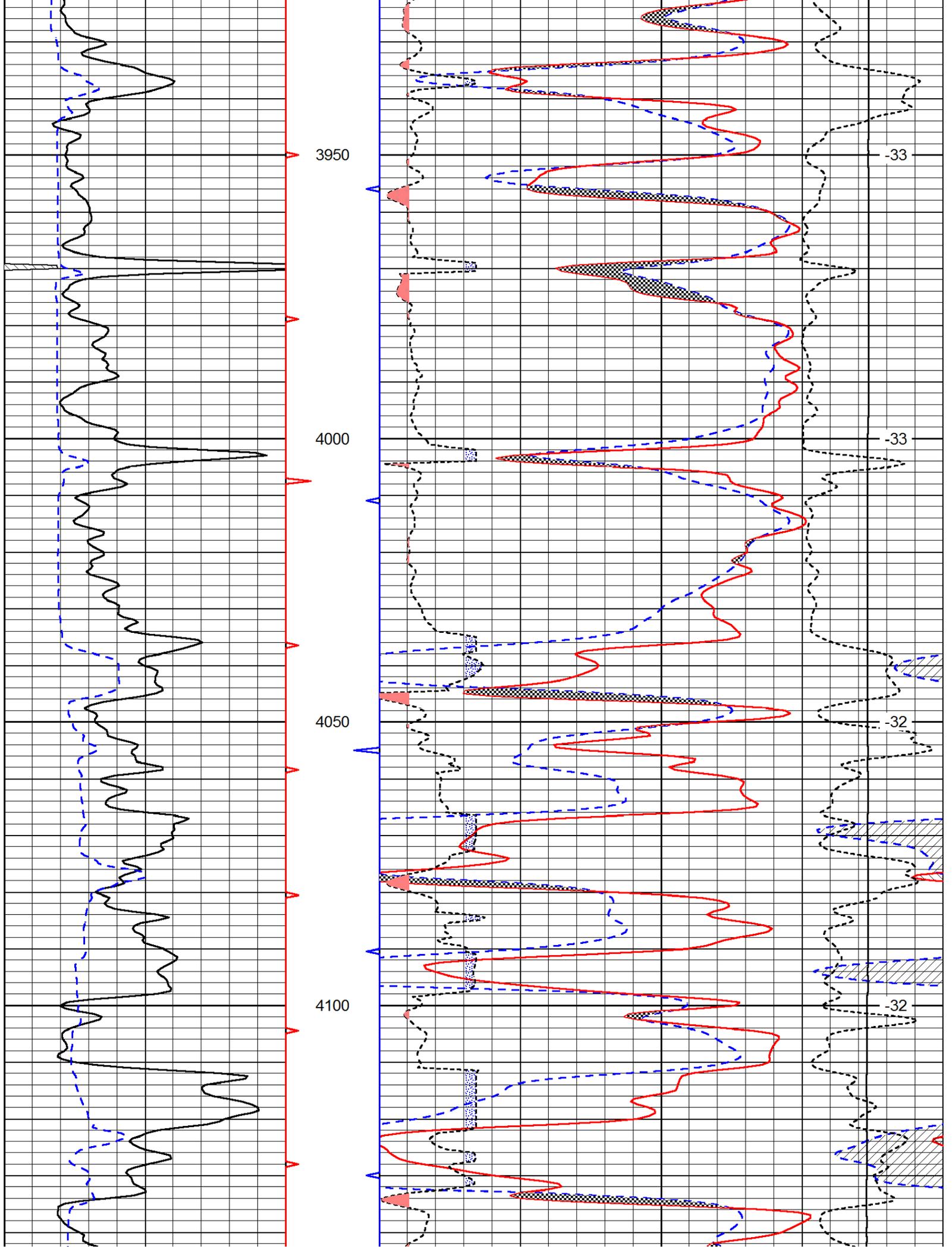


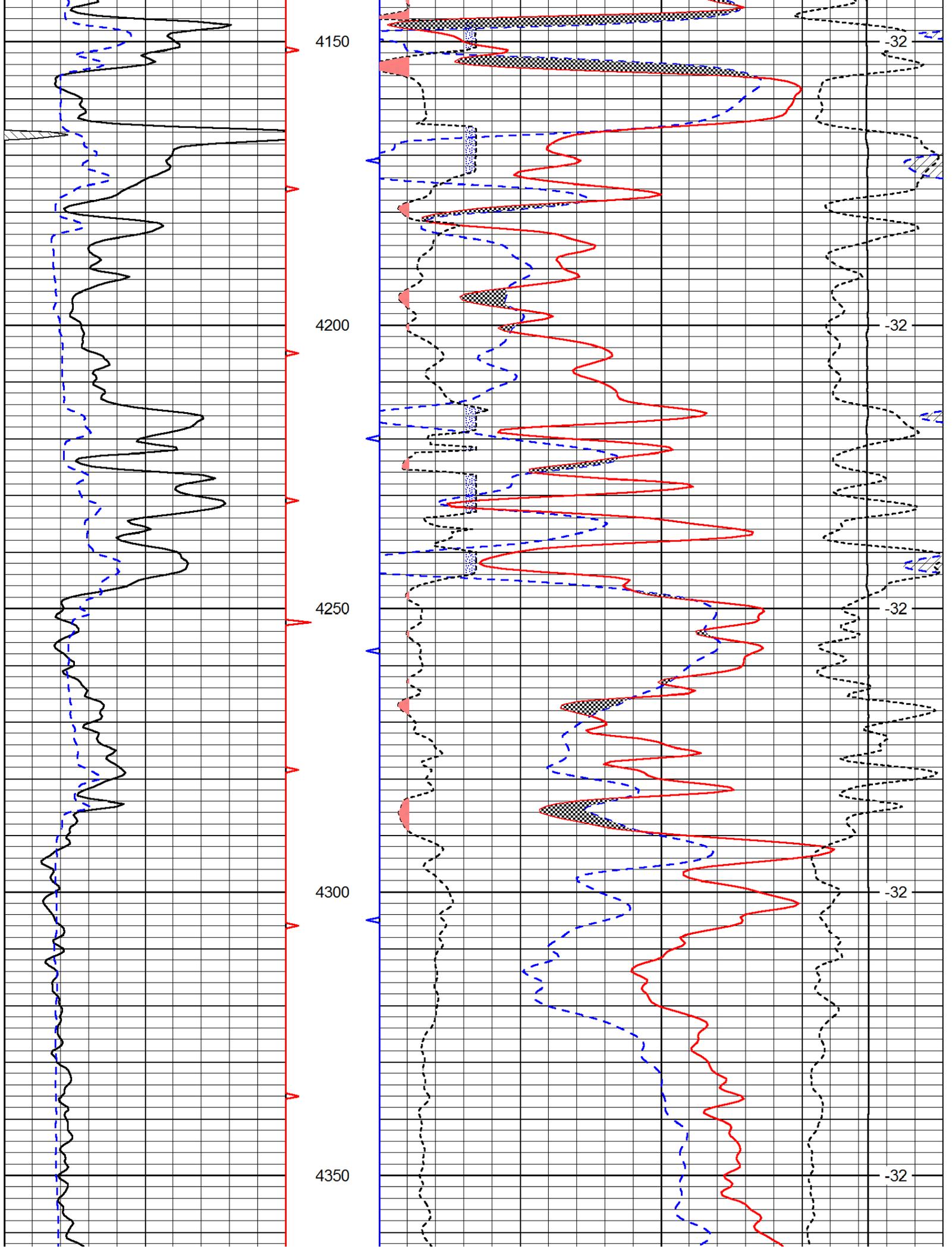
Database File: c:\warrior\data\toto\_greene machine #23-1\toto\_greene\_machine\_23\_1hd.db  
 Dataset Pathname: DIL/totostk  
 Presentation Format: cndlspec  
 Dataset Creation: Wed Apr 02 22:35:21 2014  
 Charted by: Depth in Feet scaled 1:240

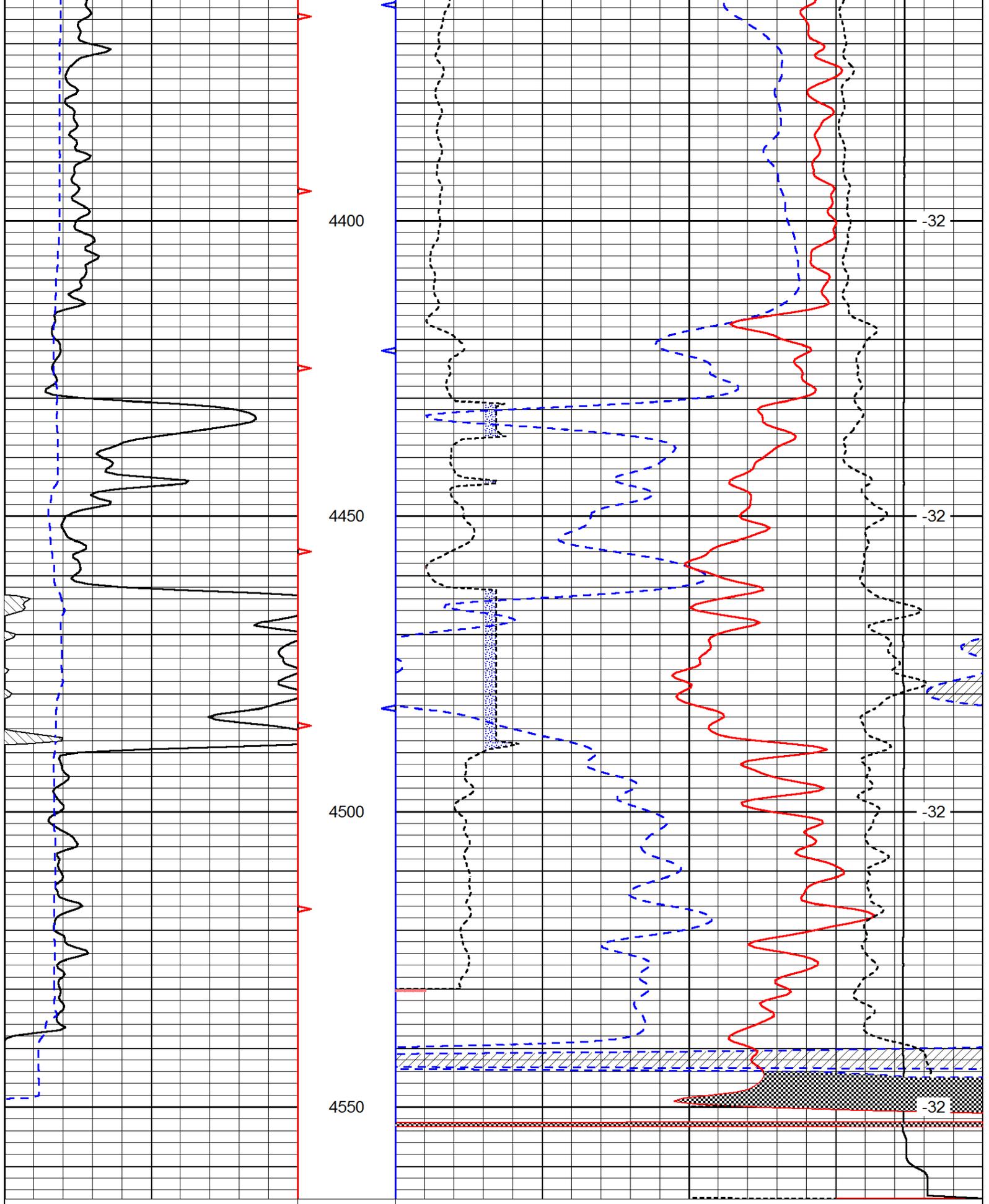












0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10

2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				n

