



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-153-20,933-00-00

Company **Murfin Drilling Company, Inc.**

Well **Mary Ann No. 2-1**

Field

County **Rawlins**

State **Kansas**

Location **330' FNL & 1520' FWL**

Other Services
DIL
MEI/BHCS

Sec: 1 Twp: 1S Rge: 36W

Permanent Datum Ground Level Elevation 3085

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Elevation
K.B. 3095
D.F.
G.L. 3085

Date 8/8/2013

Run Number One

Type Log CNL / CDL

Depth Driller 4420

Depth Logger 4410

Bottom Logged Interval 4389

Top Logged Interval 3400

Type Fluid In Hole Chemical

Salinity, PPM CL 600

Density 9.2

Level Full

Max. Rec. Temp. F 120

Operating Rig Time 5 Hours

Equipment -- Location 15 Days

Recorded By J. Henrickson

Witnessed By Robert Hendrix

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

1 12.25 00 223 8.625 24# 00 223

2 7.875 223 4420

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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.

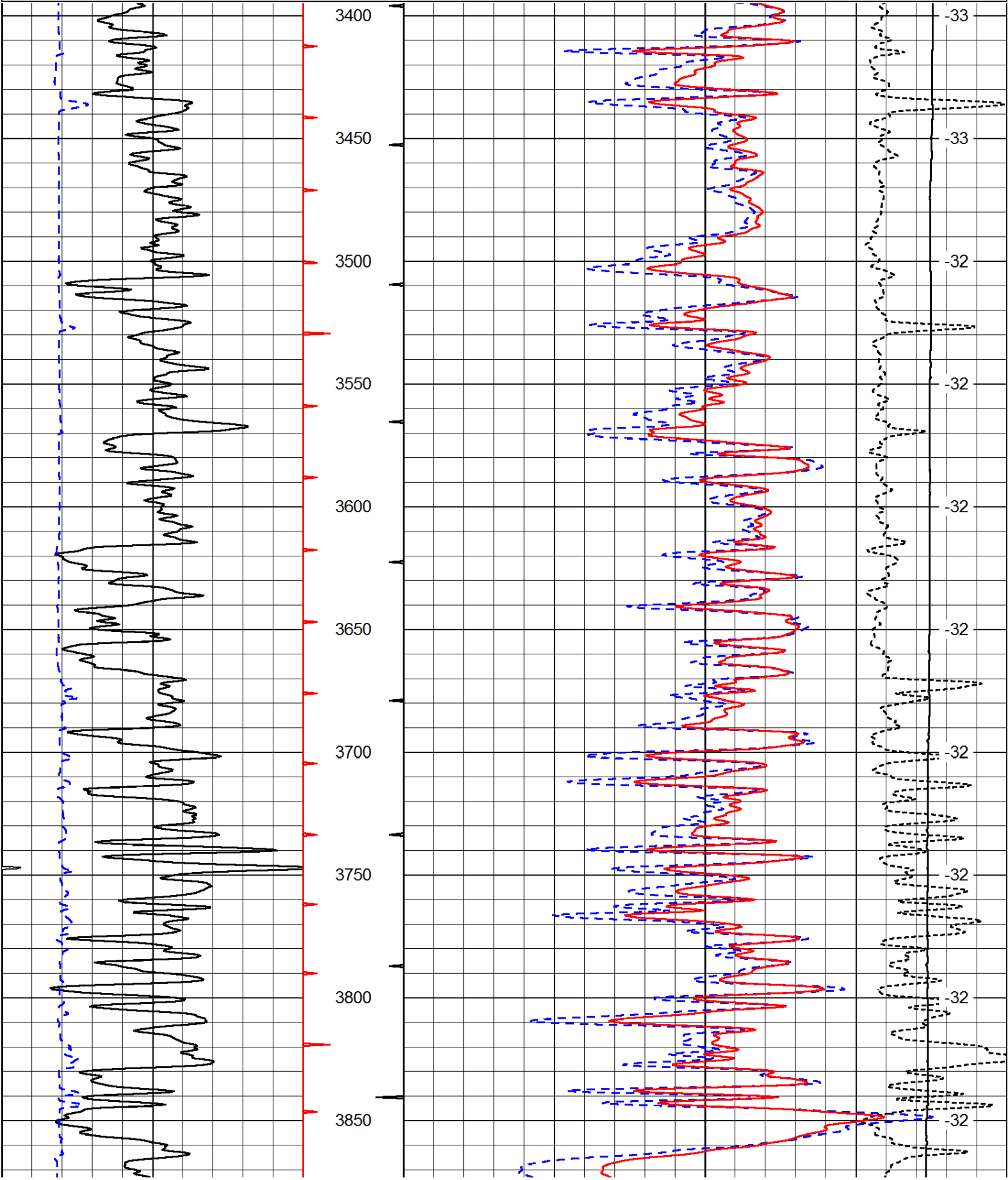
Comments

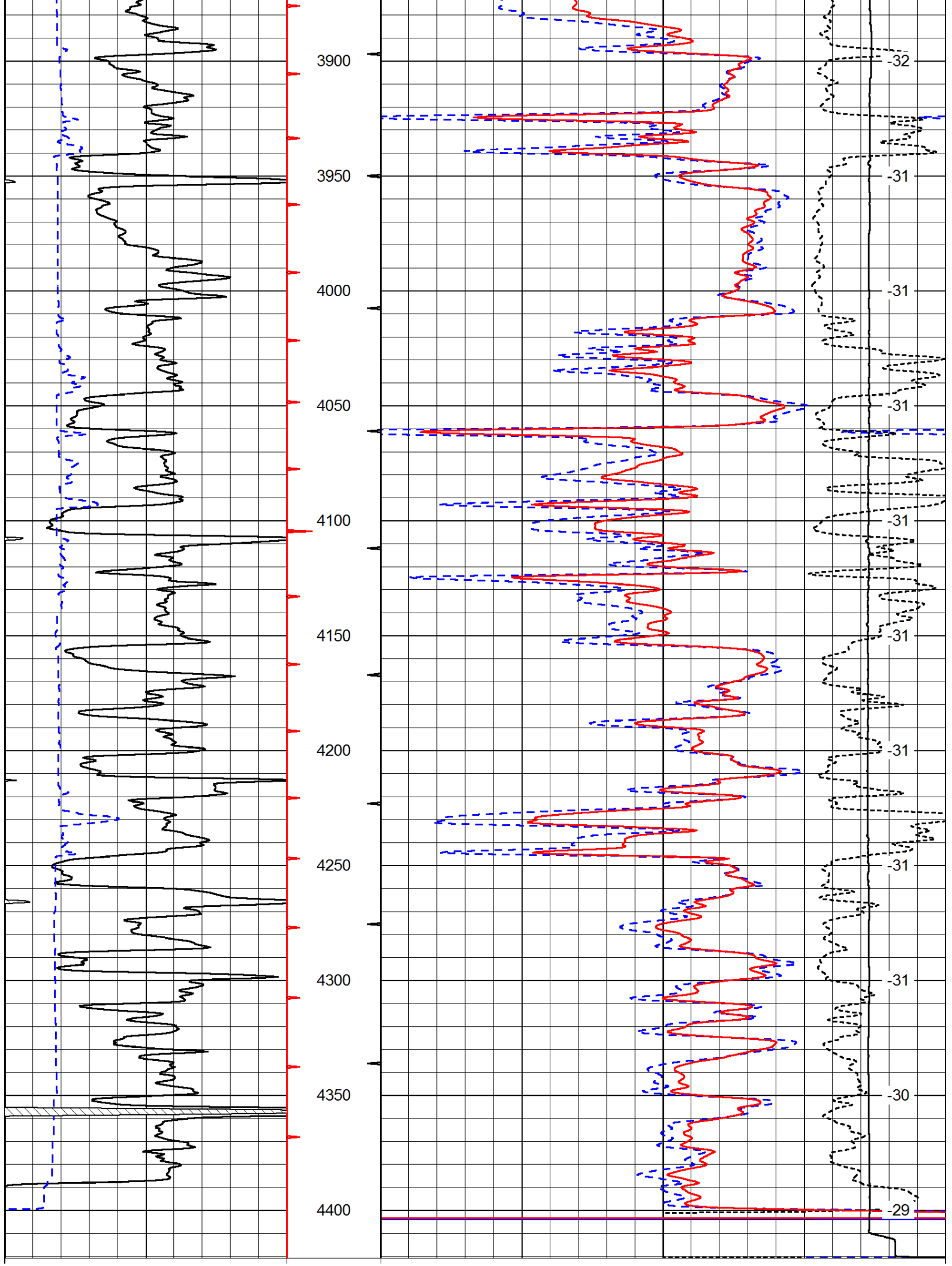
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Atwood Kansas
West to 11 Rd, North to Beardsley, North to CC Rd
3 West to 7 Rd, 1 1/2 North, West Into

Database File: c:\warrior\data\murfin_mary ann #1-1\murfin_maryann_2_1hd.db
Dataset Pathname: DIL\murall
Presentation Format: cdl
Dataset Creation: Thu Aug 08 15:57:03 2013
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
		-0.25 Correction 0.25
		LSPD





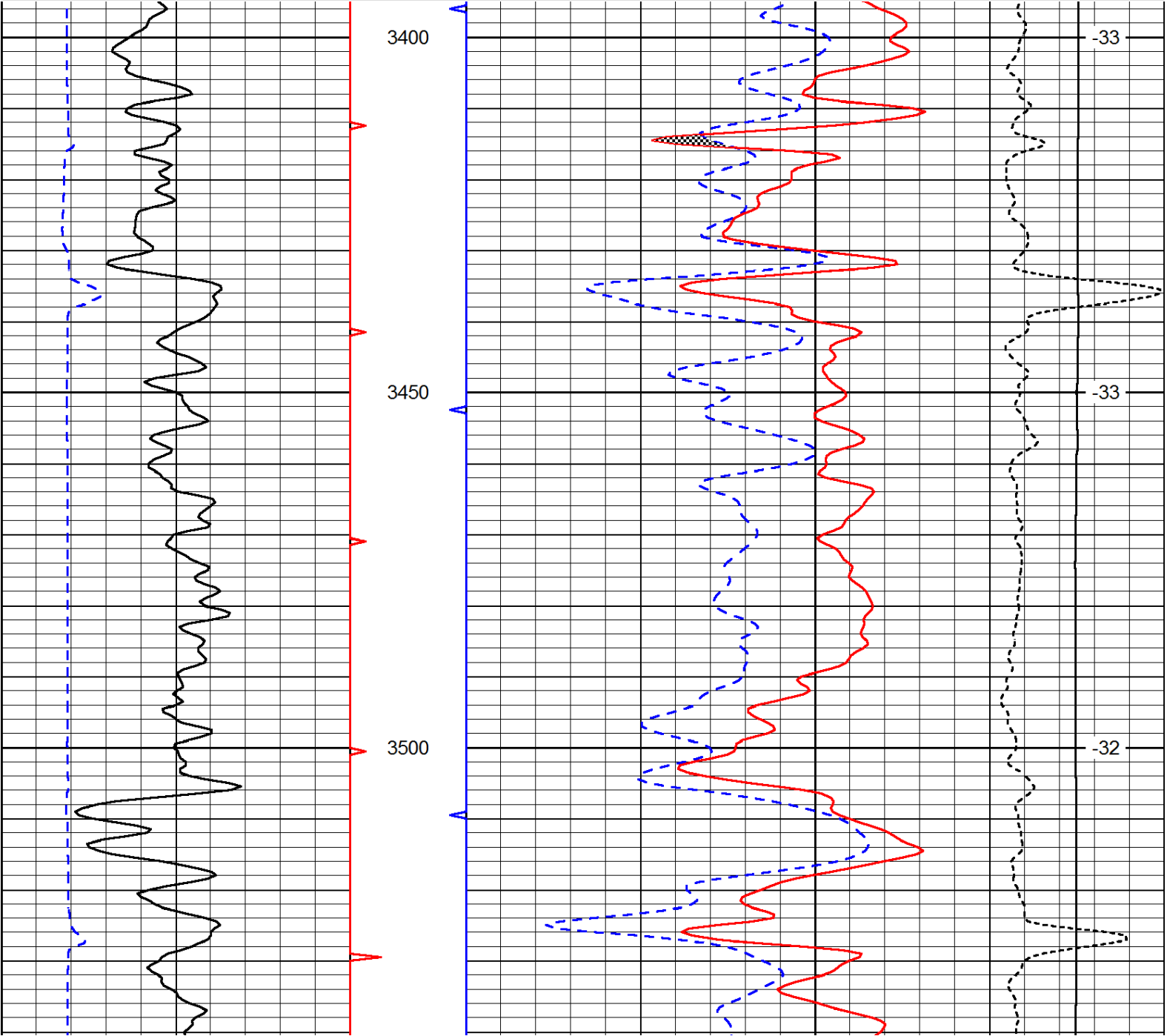
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6	Caliper (GAPI)	16

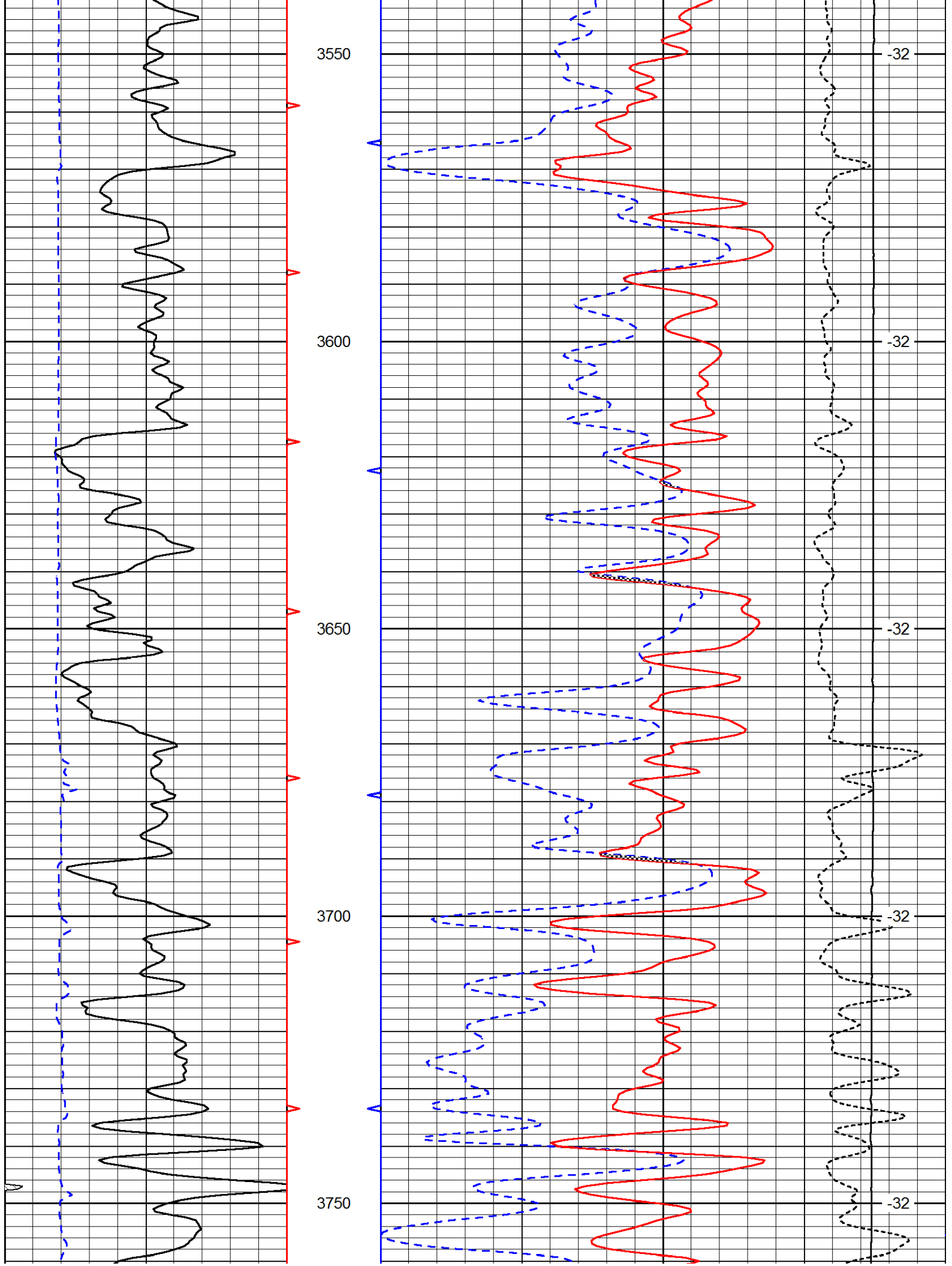
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2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25
	LSPD	

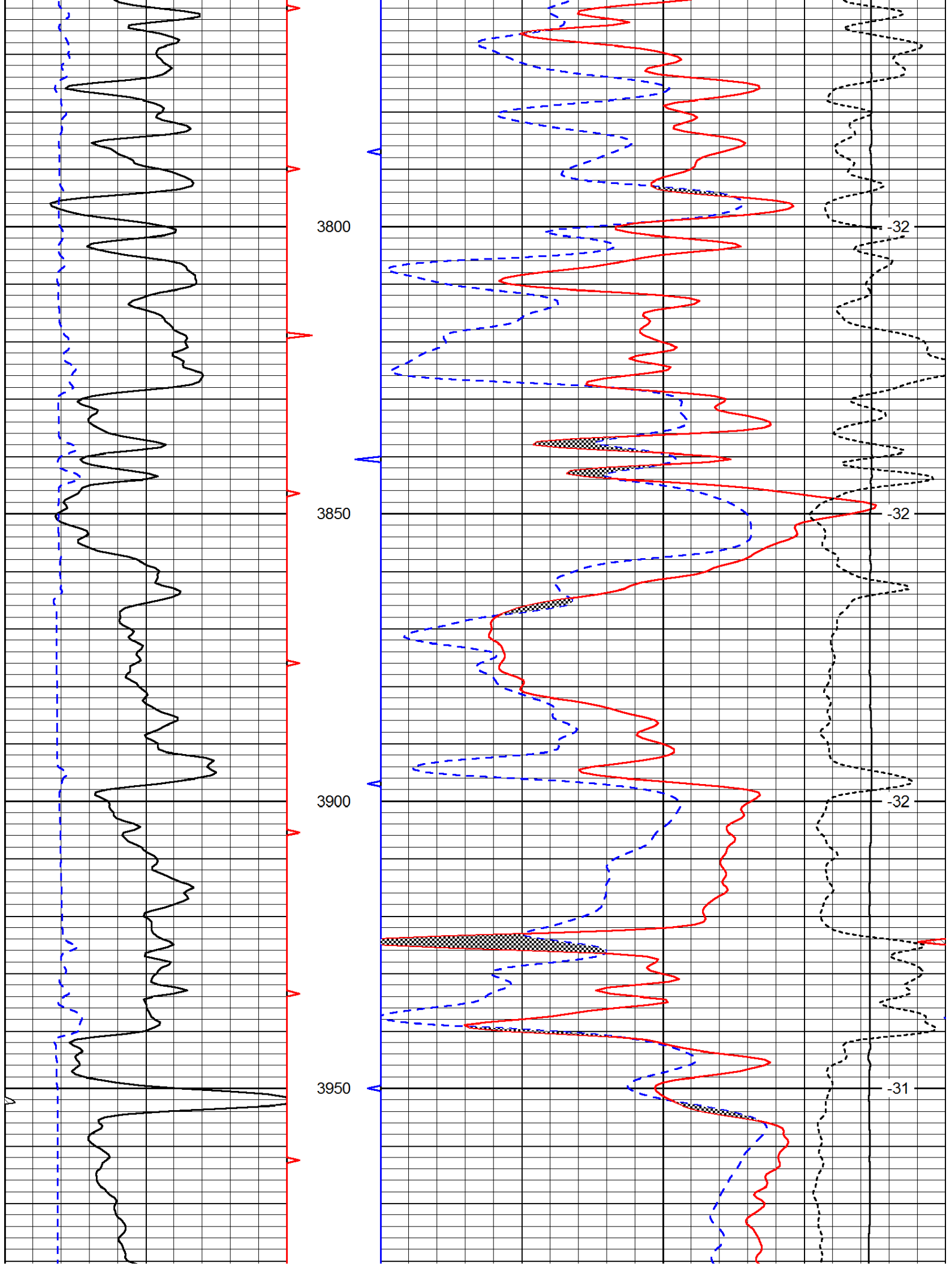
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Dataset Pathname:	DIL/murall
Presentation Format:	cnclspec
Dataset Creation:	Thu Aug 08 15:57:03 2013
Charted by:	Depth in Feet scaled 1:240

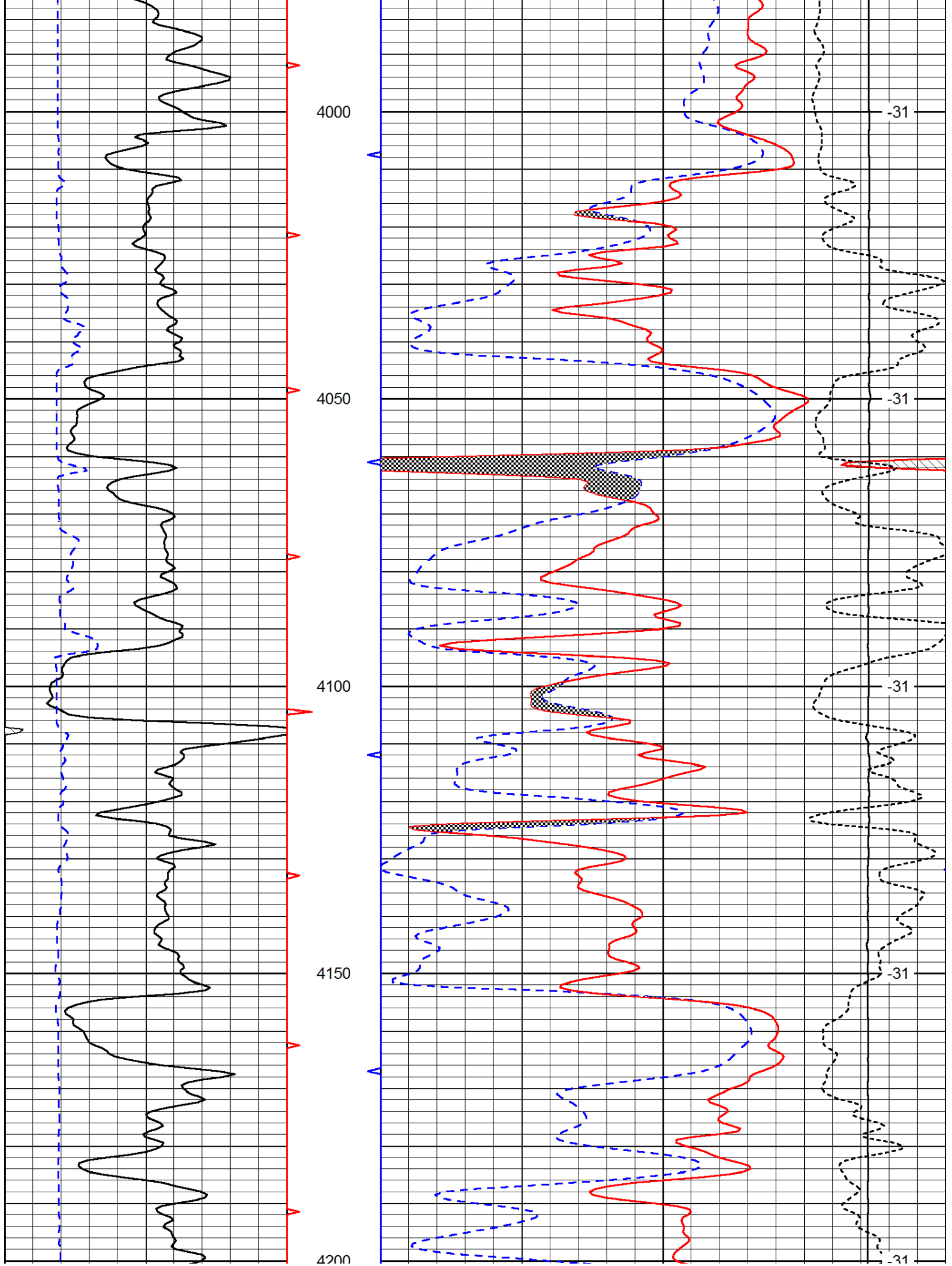
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6	Caliper (GAPI)	16

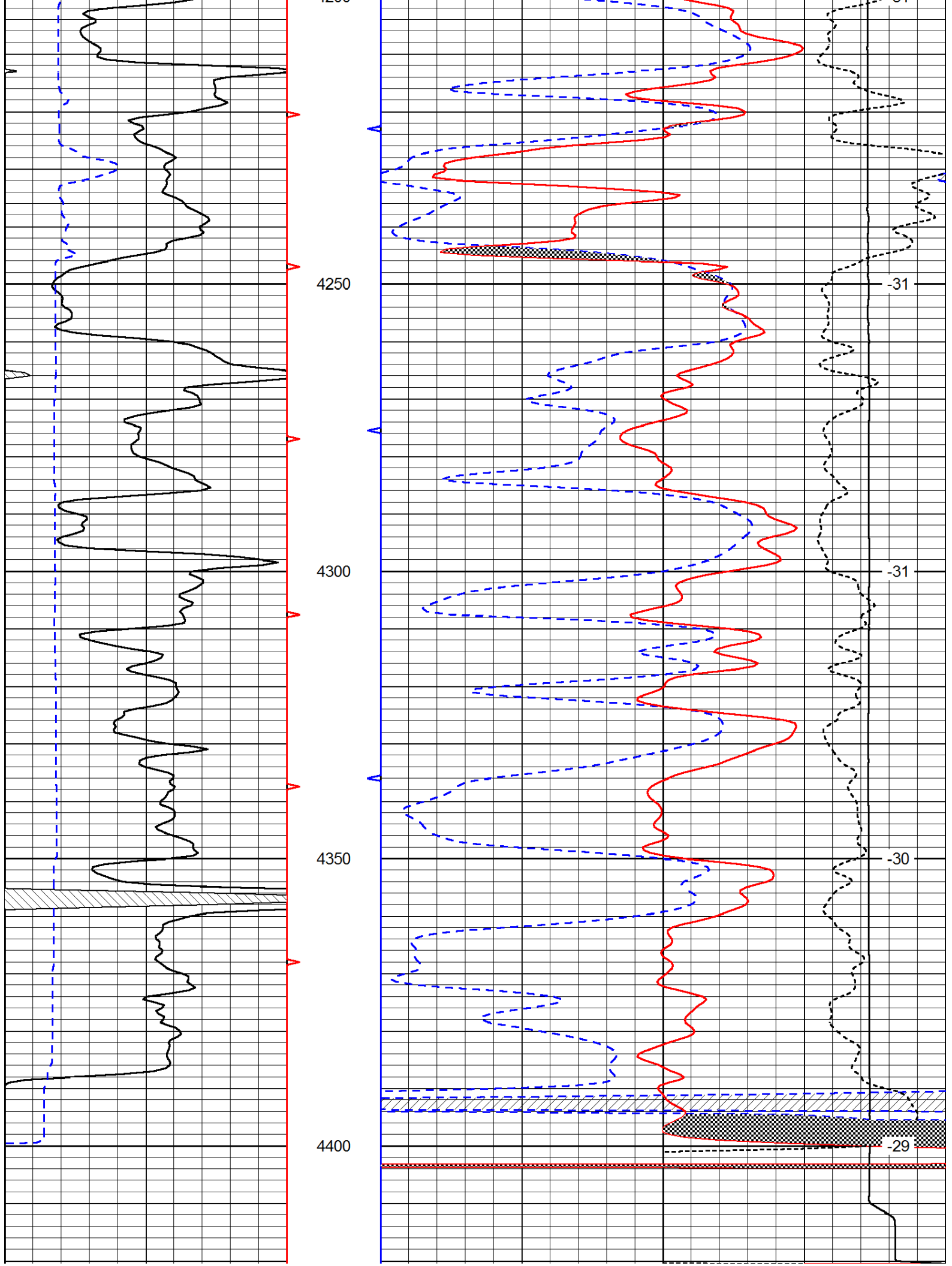
30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10
15000	Line Tension	0
-0.25	Correction	0.25
	LSPD	











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