



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-153-20952-00-00

Company **Murfin Drilling Company, Inc.**
Well **Burk Trust "C" #2-22**
Field **NA**
County **Rawlins** State **Kansas**

Location **2190' FSL & 1750' FEL**

Sec: **22** Twp: **1 S** Rge: **36 W**

Other Services
DIL
MEI/BHCS

Permanent Datum **Ground Level** Elevation **3208**
Log Measured From **Kelly Bushing** **5** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. **3213**
D.F.
G.L. **3208**

Date **10/16/2013**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4510**

Depth Logger **4510**

Bottom Logged Interval **4489**

Top Logged Interval **3500**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **800**

Density **9.3**

Level **Full**

Max. Rec. Temp. F **123**

Operating Rig Time **5 Hours**

Equipment -- Location **91 Hays**

Recorded By **Y. Ruiz**

Witnessed By **Robert Hendrix**

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

1 12.25 00 218 8.625 24# 00 218

2 7.875 218 4510

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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.

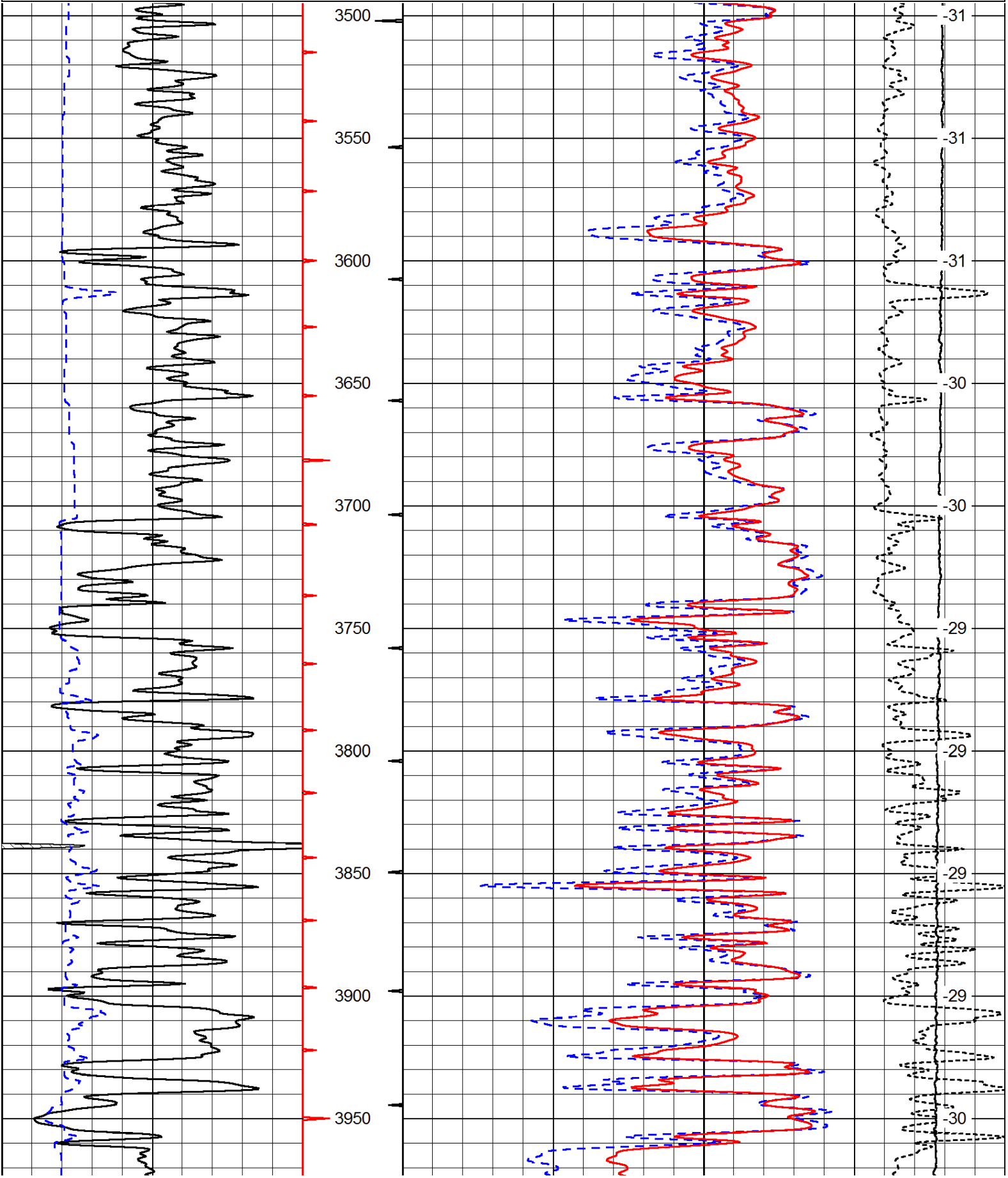
Comments

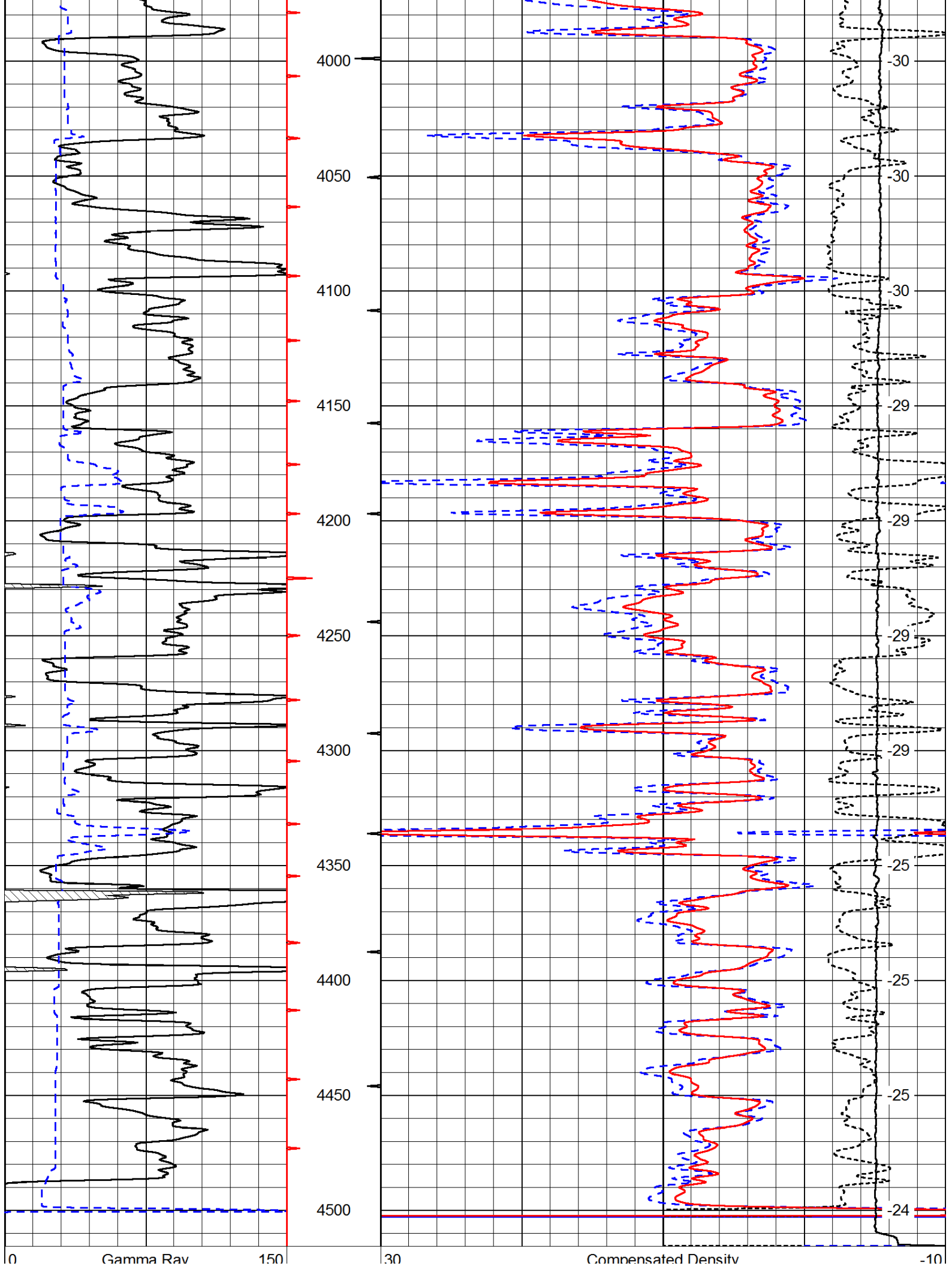
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Beardsley,
North to AA Rd, 5 1/2 West,
North into

Database File: c:\warrior\data\murfin_burk trust 'c' #2-22\murfin_101613hd.db
Dataset Pathname: dil\murfinstk
Presentation Format: cdl
Dataset Creation: Wed Oct 16 13:05:11 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

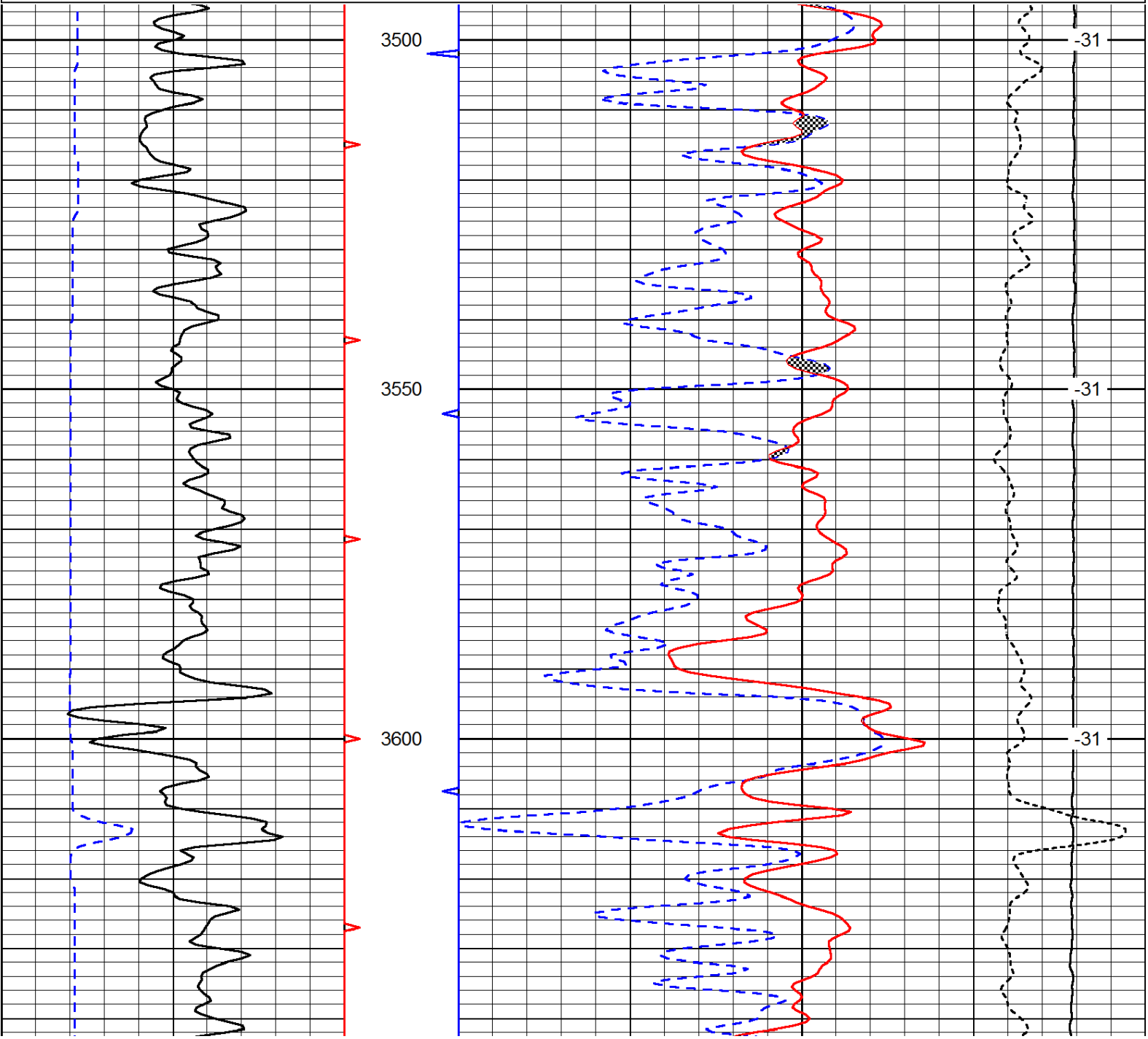


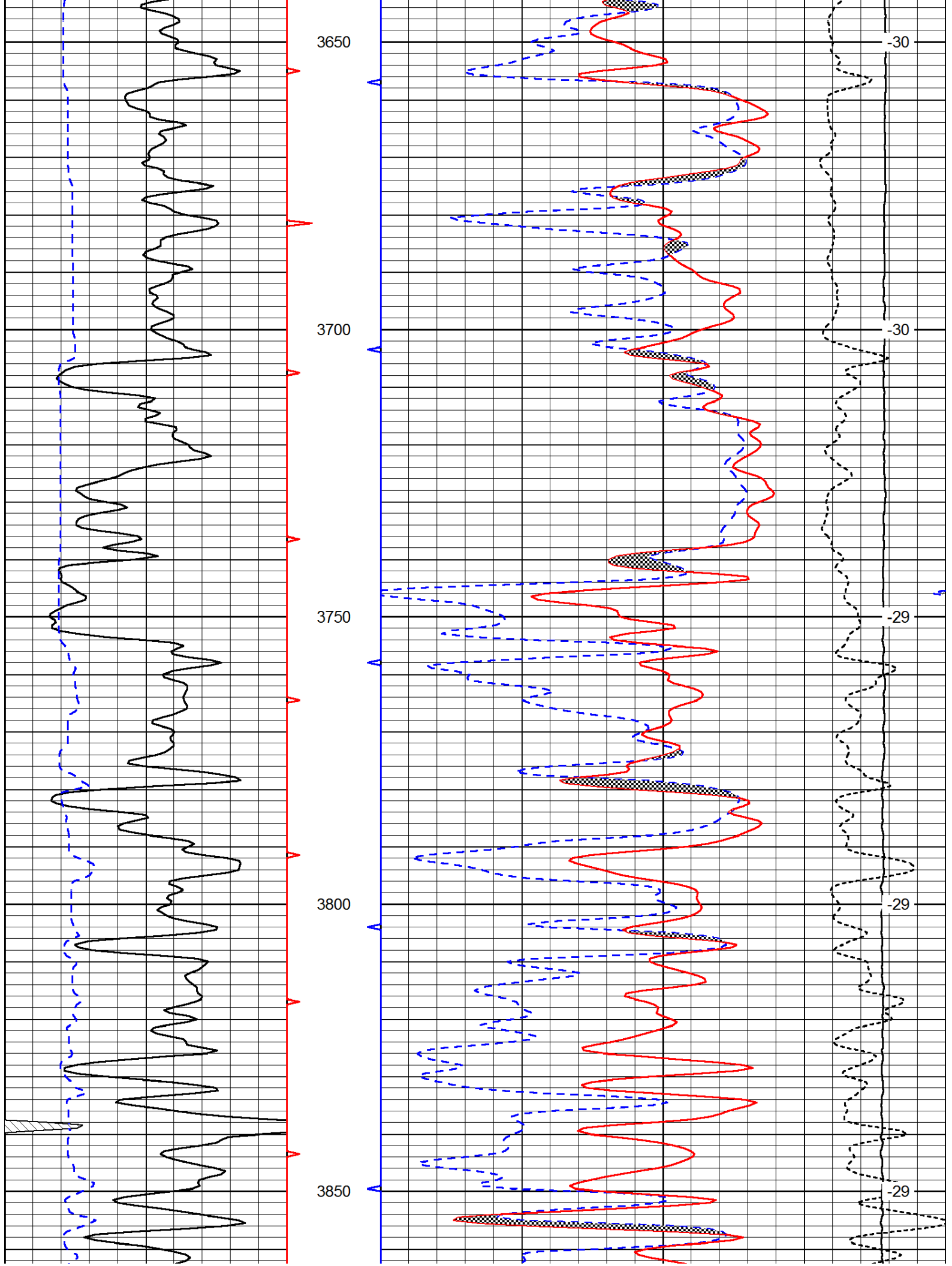


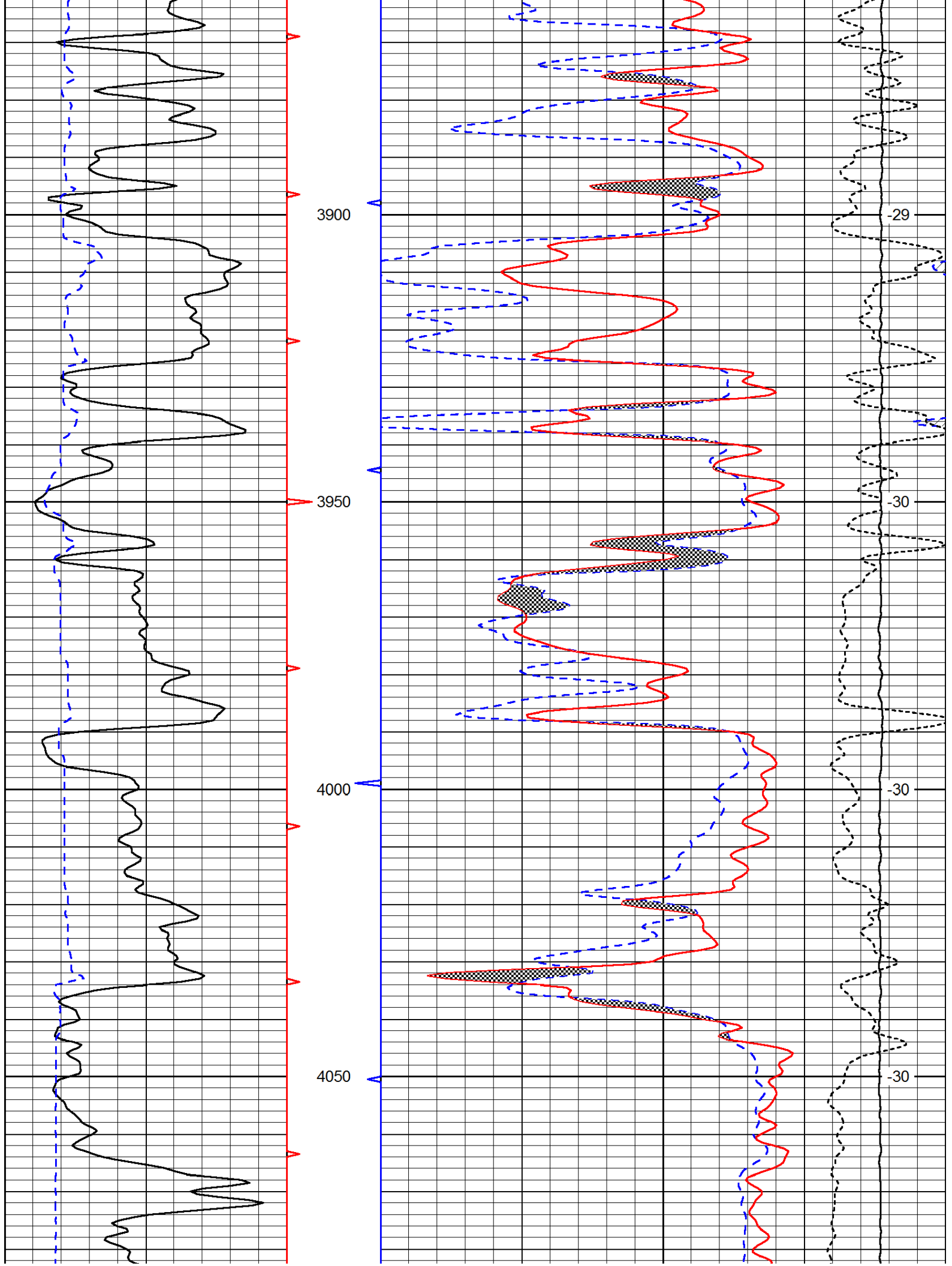
6	Caliper (GAPI)	16

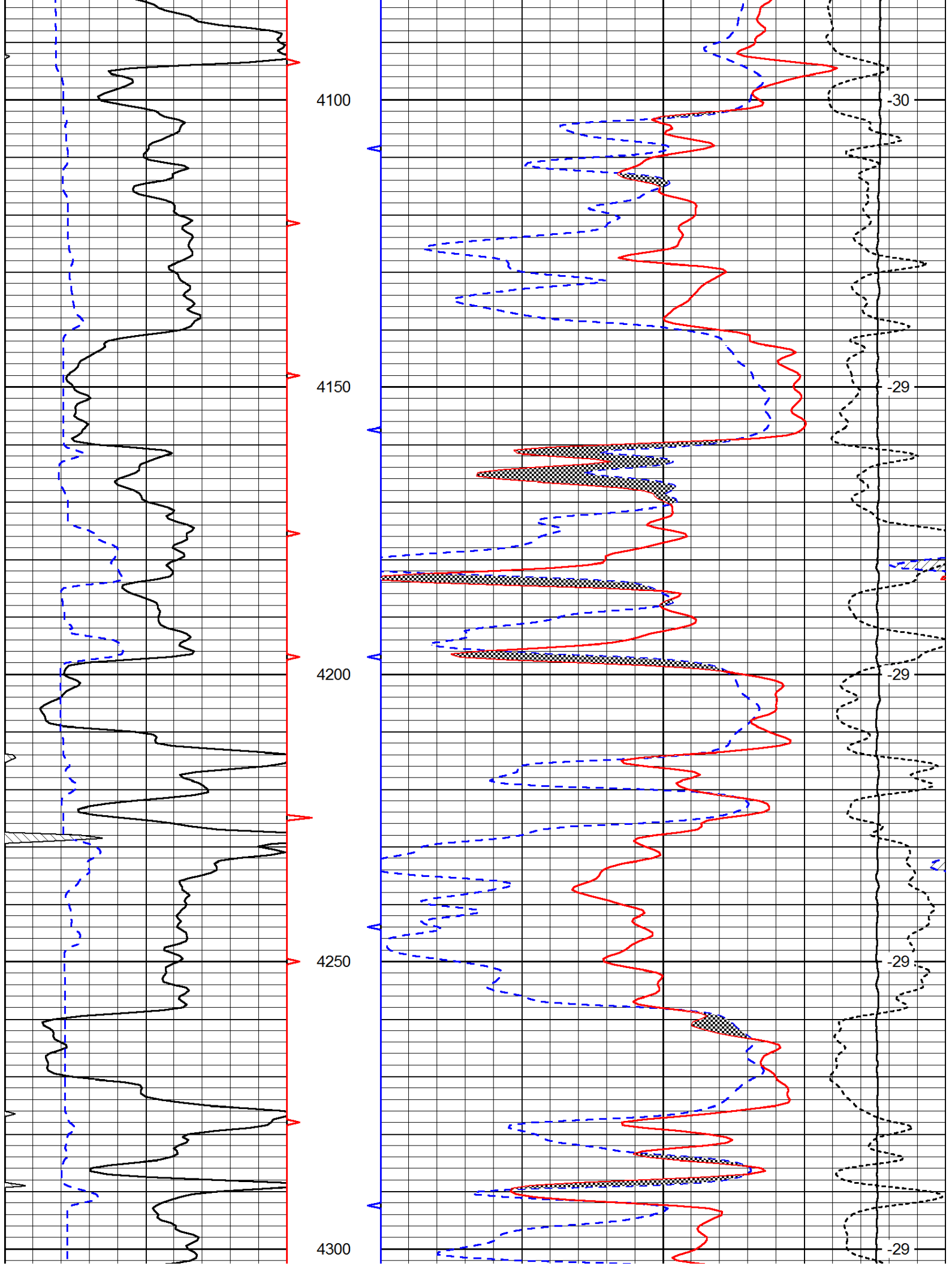
2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25
LSPD		

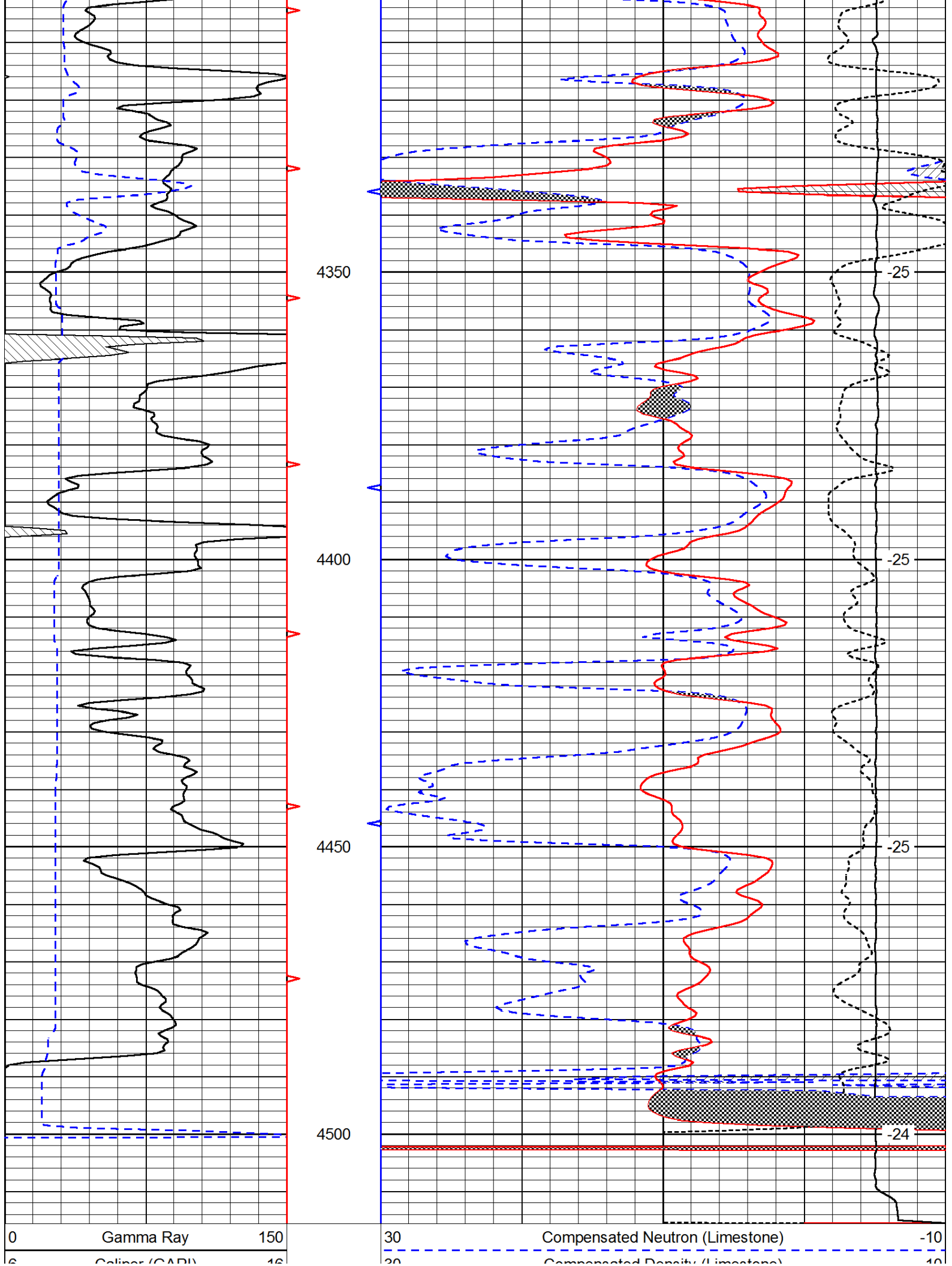
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Dataset Pathname: dil/murfinstk		
Presentation Format: cndlspec		
Dataset Creation: Wed Oct 16 13:05:11 2013		
Charted by: Depth in Feet scaled 1:240		
0	Gamma Ray	150
6	Caliper (GAPI)	16
30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10
15000	Line Tension	0
-0.25	Correction	0.25
LSPD		











6	Caliper (GAP1)	10

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