LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Compensated Porosity Log

API No. 15-065-23800-00-00

Company Murfin Drilling Company, Inc.

Well Ruder Unit No. 1-36

Field Wildcat

County Graham State Kansas

Location SW - SW - NW - SE
1430' FSL & 2600' FEL
Sec: 36 Twp: 10 S Rge: 24 W

Other Services
DIL
MEL/BHCS

Elevation
K.B. 2360
D.F.
G.L. 2355

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
	5 Ft. Above Perm. Datum
	Elevation 2355
Date	1/22/2012
Run Number	One
Type Log	CNL / CDL
Depth Driller	4325
Depth Logger	4327
Bottom Logged Interval	4306
Top Logged Interval	3300
Type Fluid In Hole	Chemical
Salinity, PPM CL	1800
Density	9.1
Level	Full
Max. Rec. Temp. F	121
Operating Rig Time	5 Hours
Equipment -- Location	91 Hays
Recorded By	B. Becker
Witnessed By	Vern Schrag

Borehole Record

Run No	Bit	From	To
One	12.25	00	219
Two	7.875	219	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	219

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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

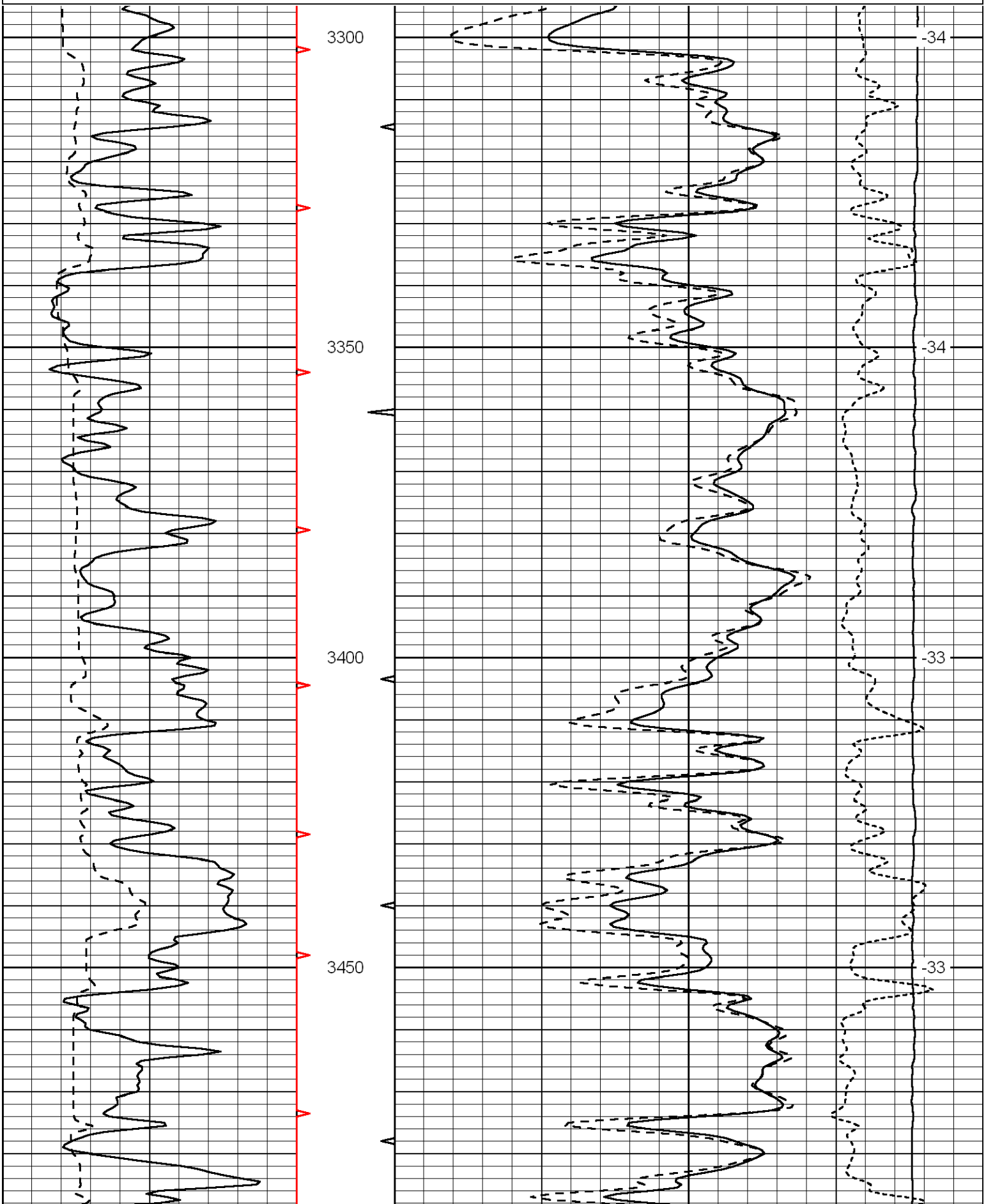
Thank you for using Log-Tech, Inc.
(785) 625-3858

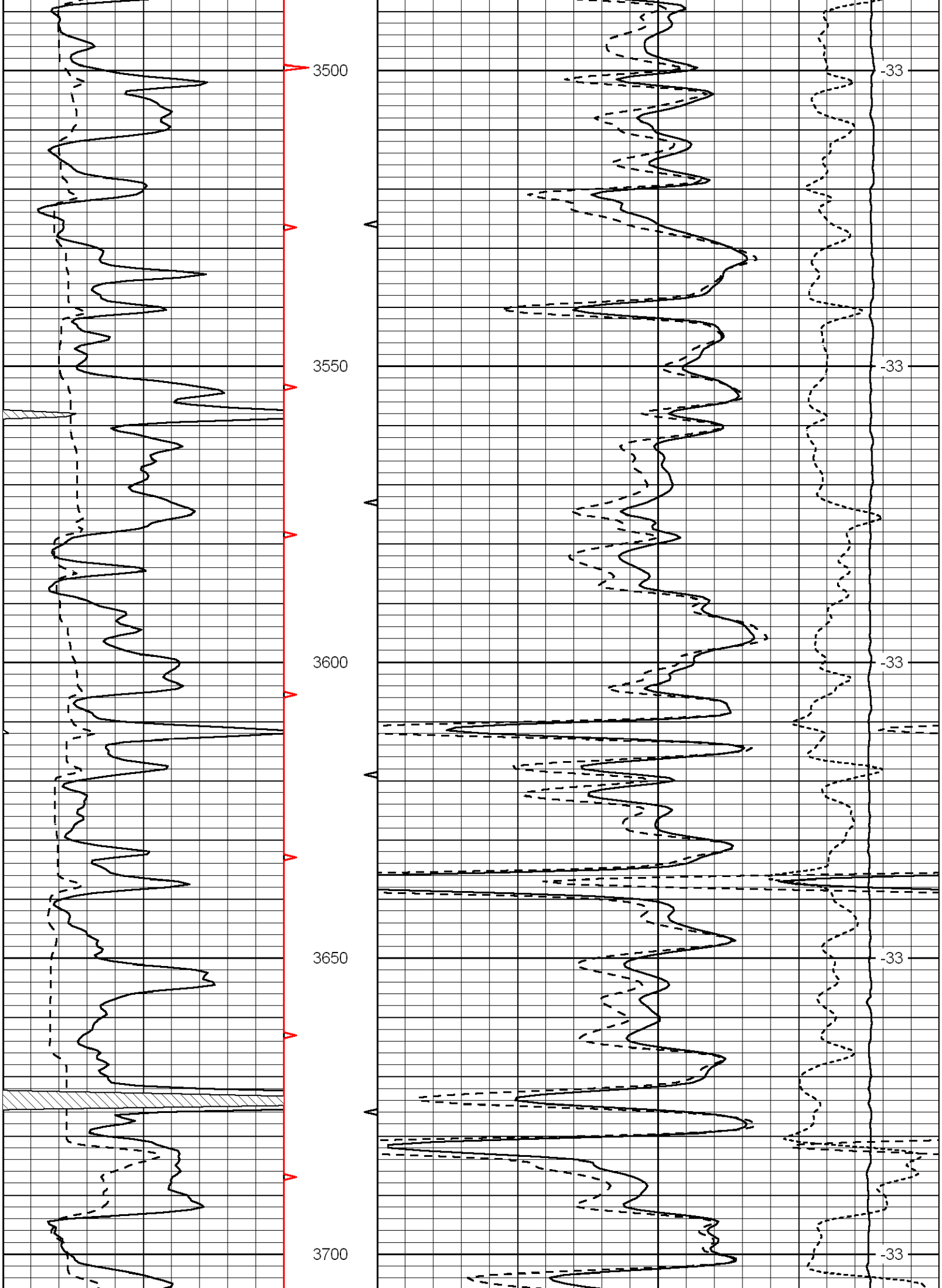
Wakeeney, Ks; North to B Rd;
5 West to 120 Rd; 1 North; 3/4 East;
Northeast to location

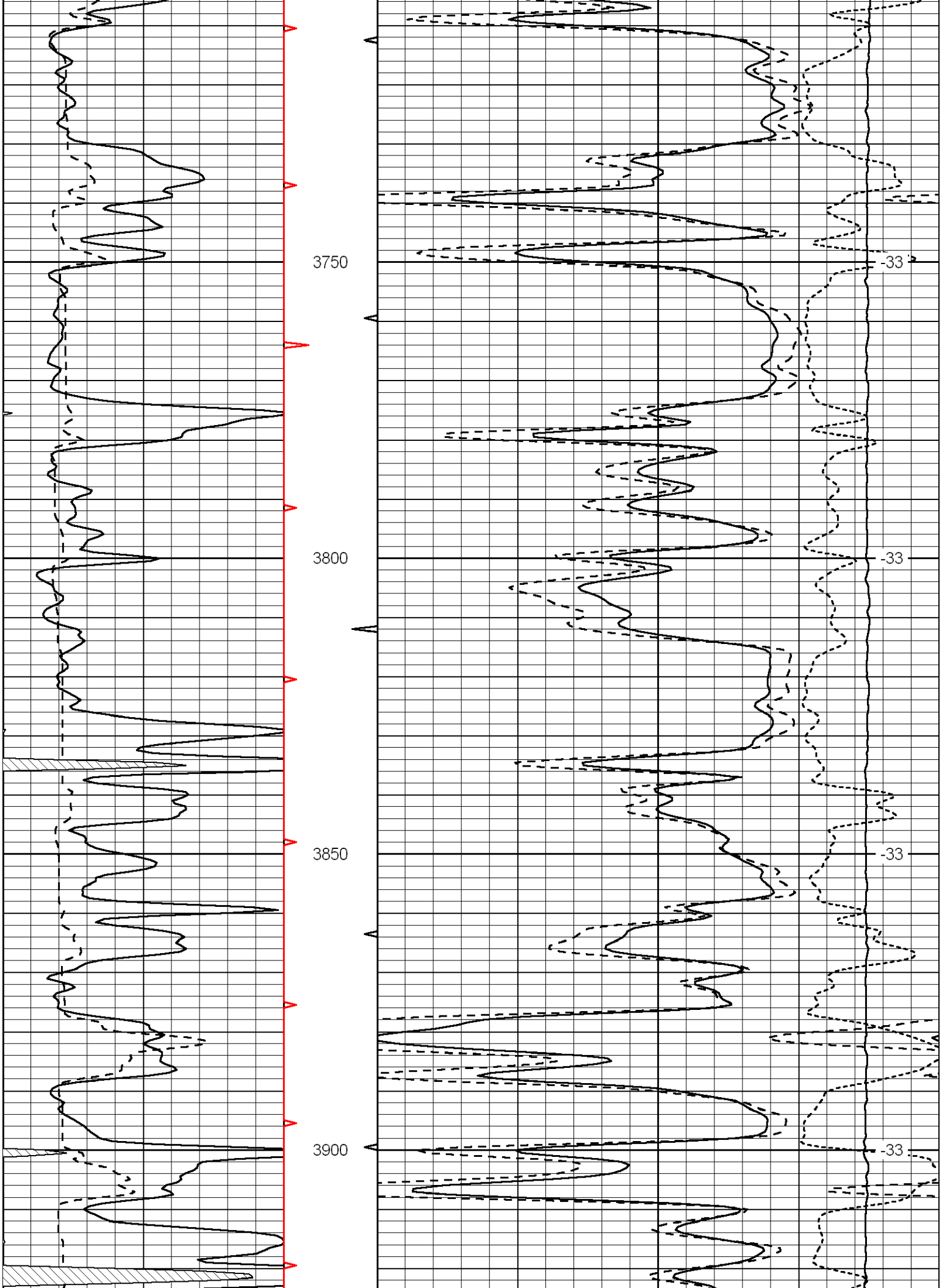
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Presentation Format: cdl
Dataset Creation: Sun Jan 22 13:16:05 2012
Charted by: Depth in Feet scaled 1:240

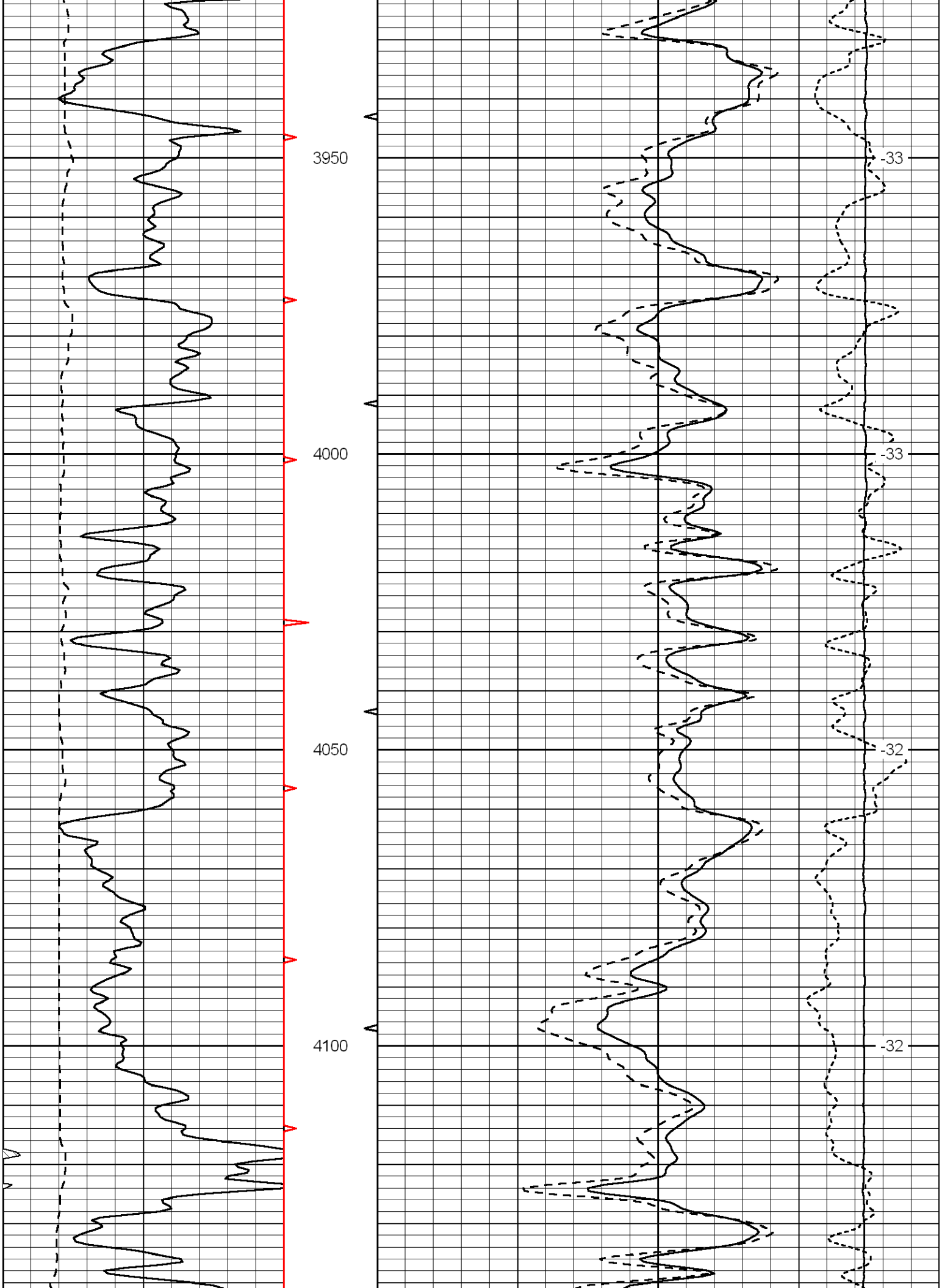
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6	Caliper (GAPI)	16

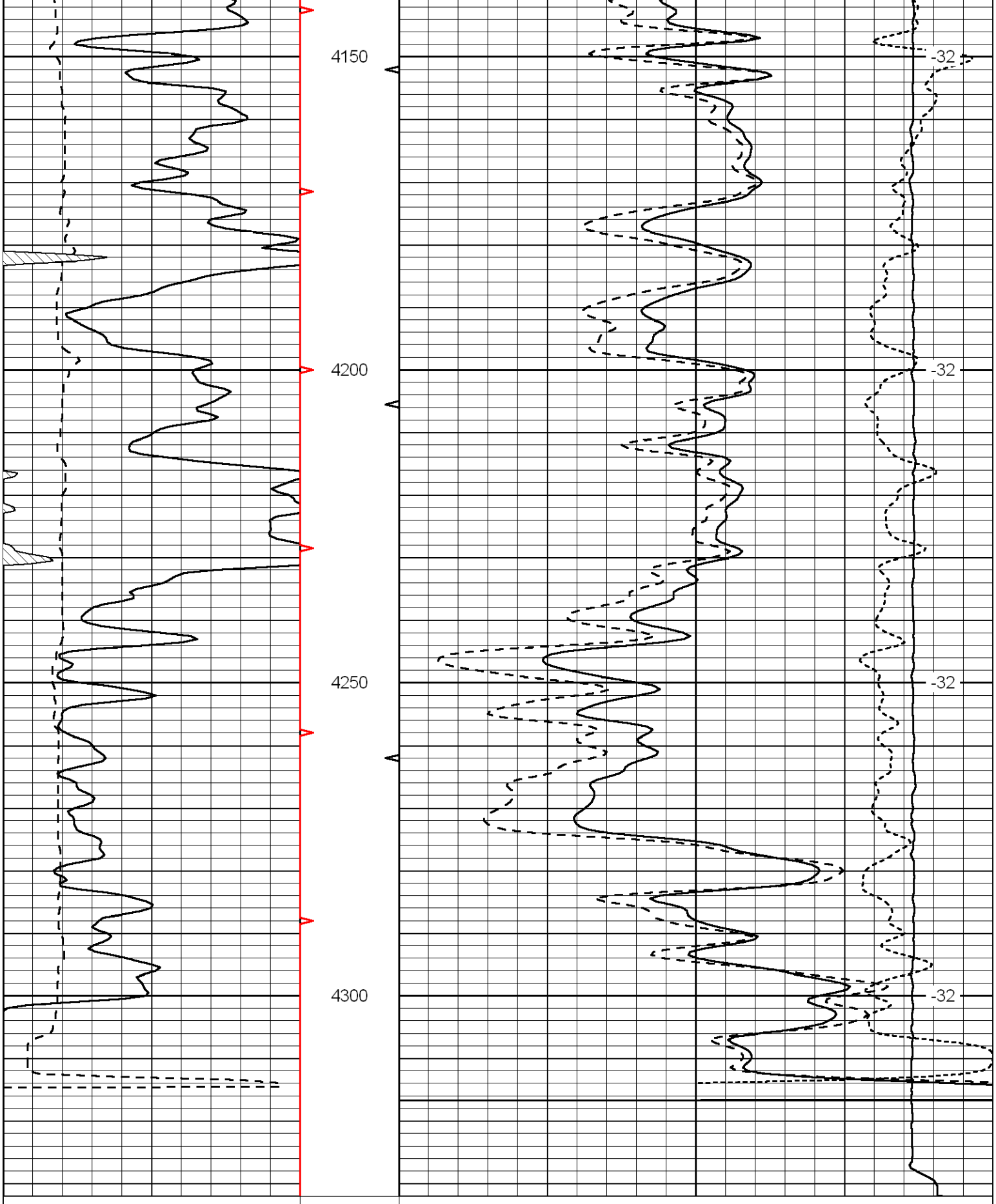
30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25
	LSPD	




3500
3550
3600
3650
3700
-33
-33
-33
-33
-33


3750
3800
3850
3900
-33
-33
-33
-33

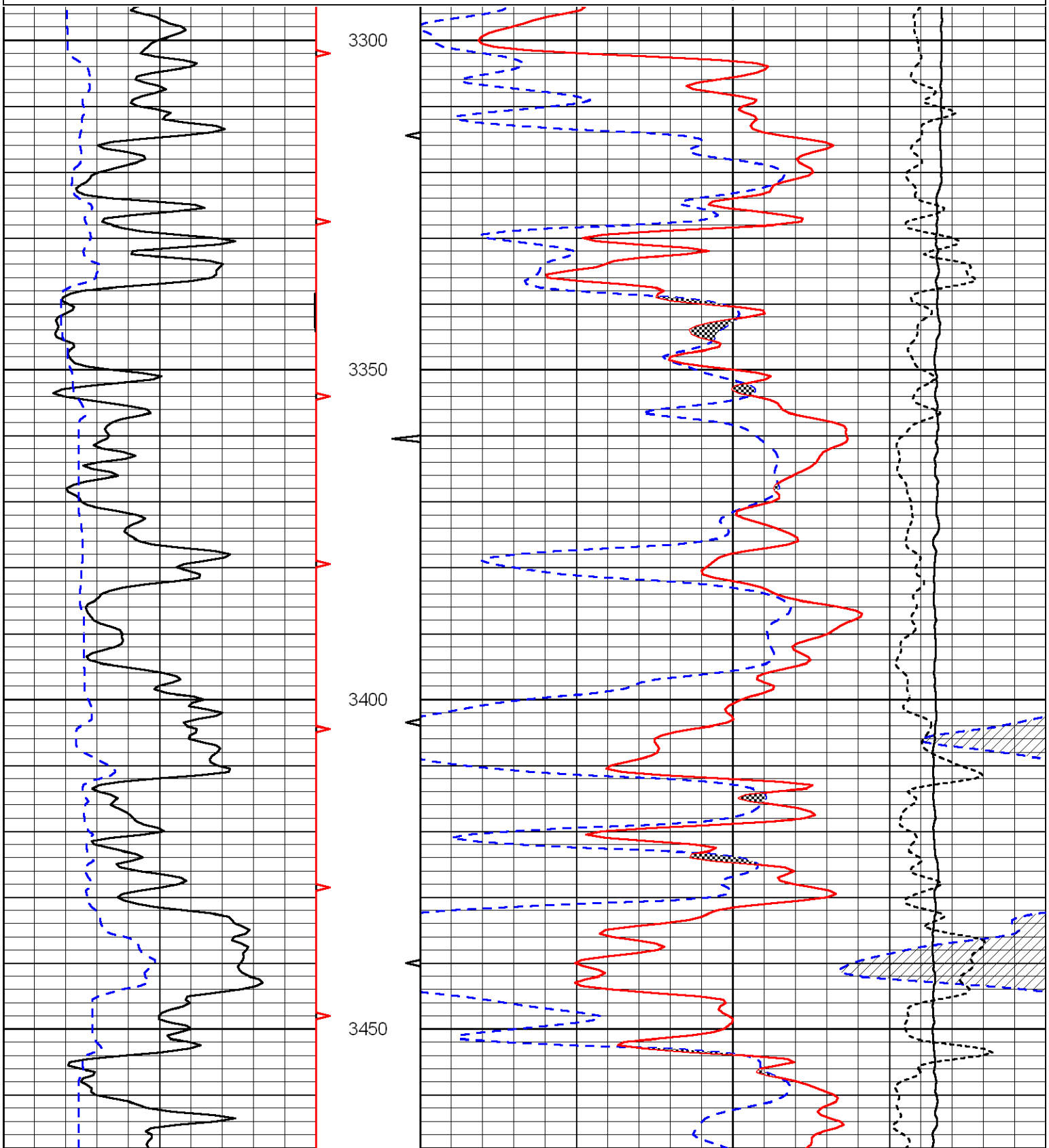

3950
4000
4050
4100
-33
-33
-32
-32

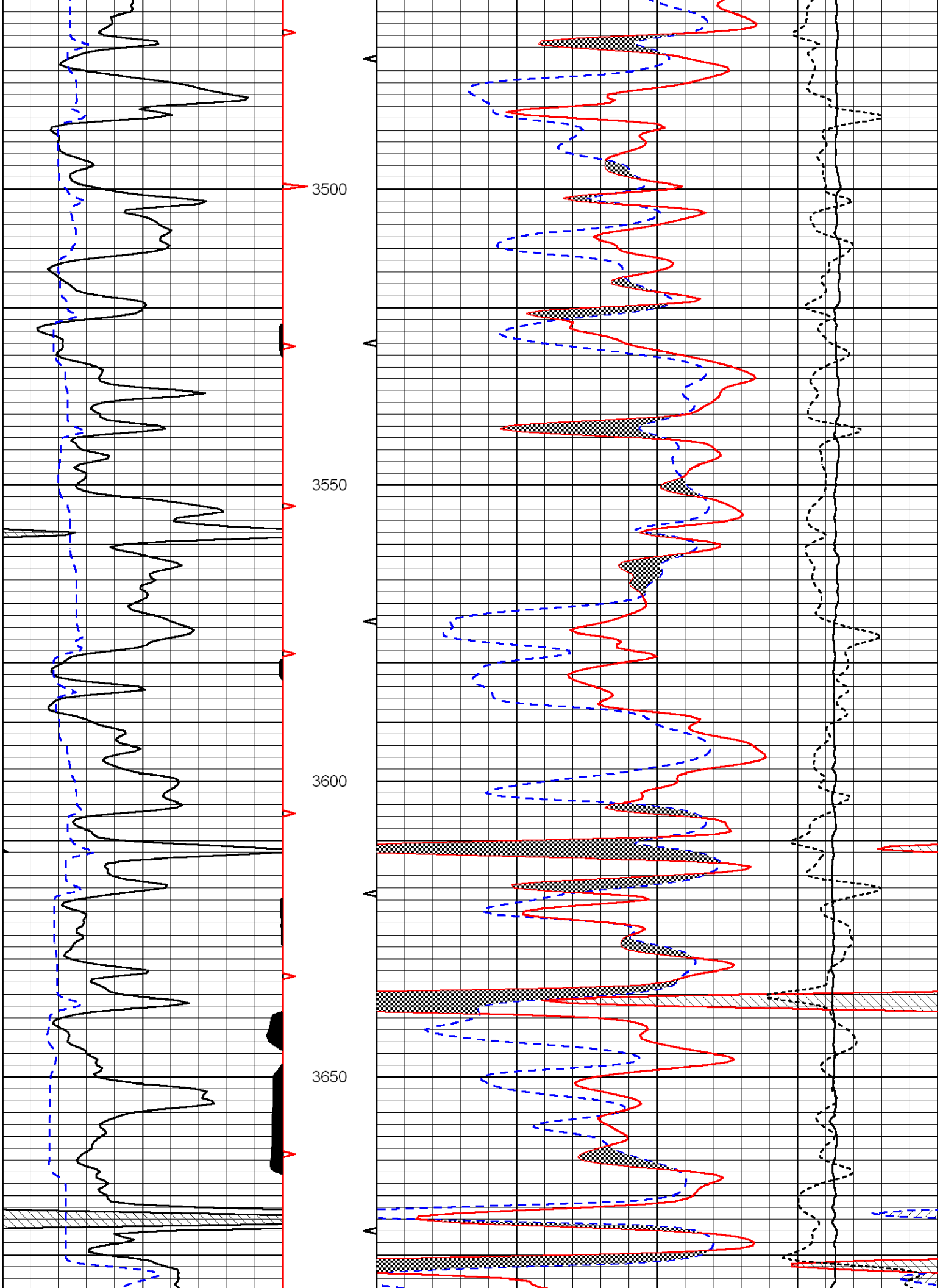

4150
4200
4250
4300
-32
-32
-32
-32
0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compensated Density -10
2 Bulk Density 3
15000 Line Tension 0
-0.25 Correction 0.25
LSPD

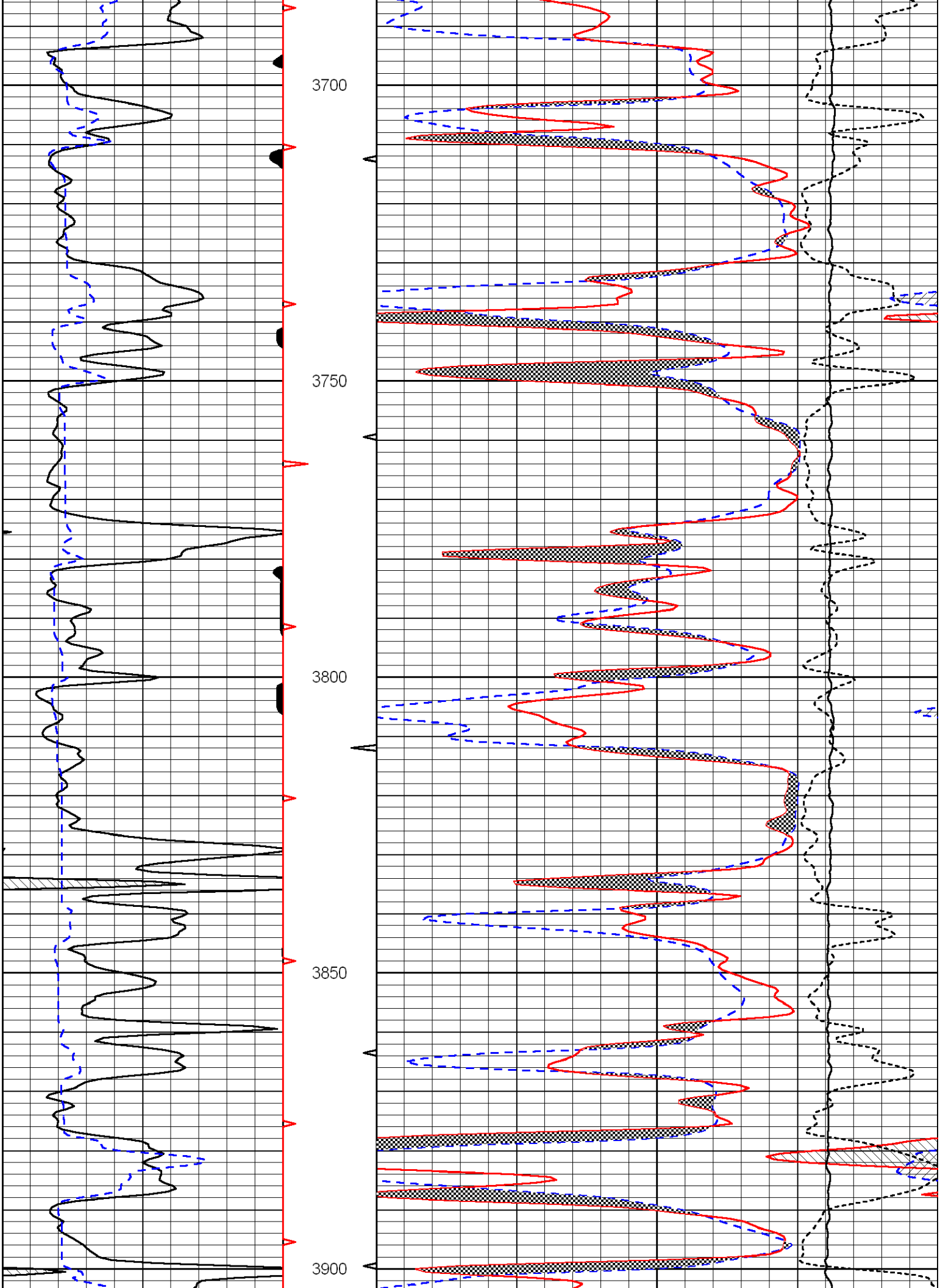
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Charted by:	Depth in Feet scaled 1:240

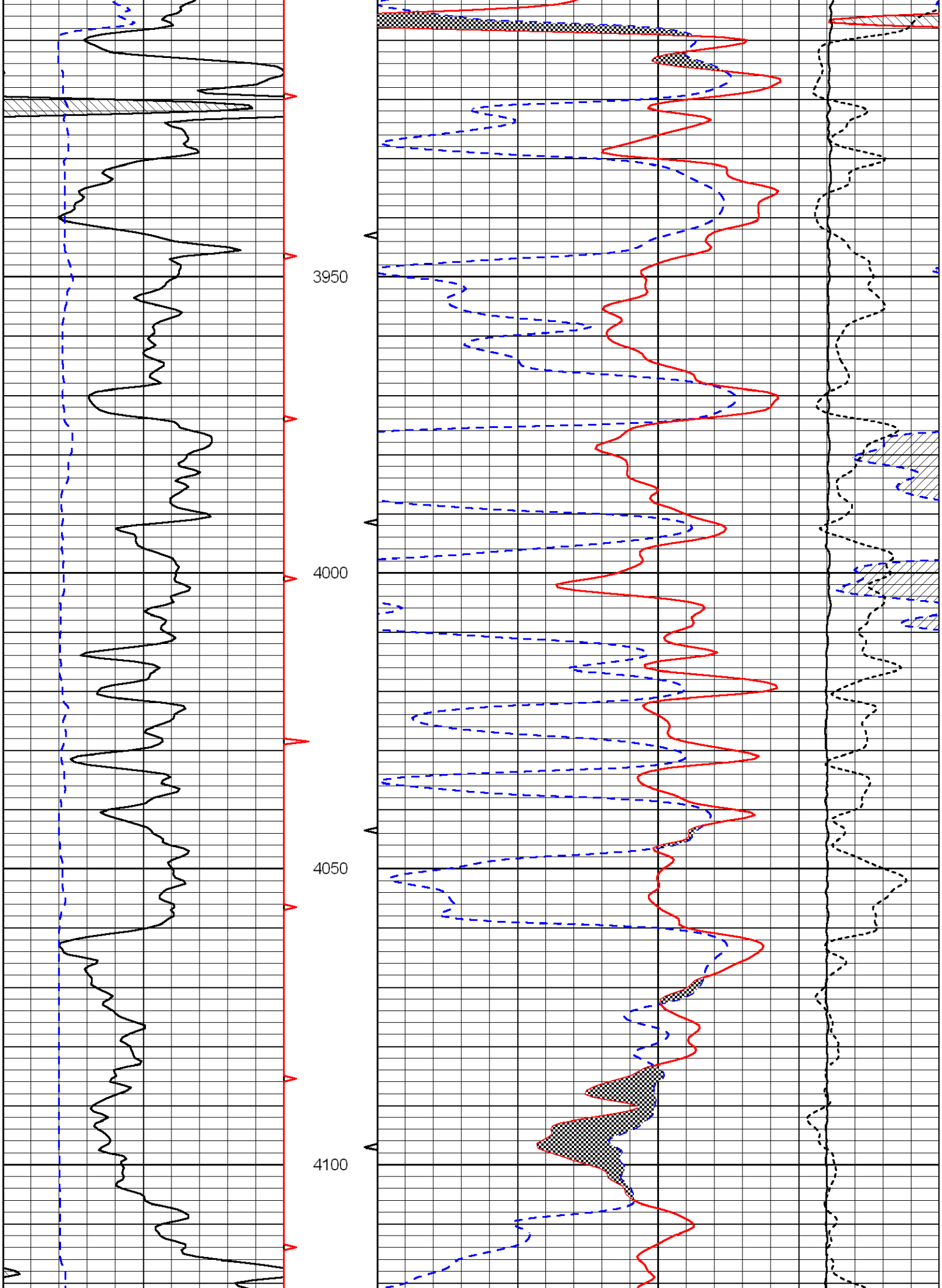
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6	Caliper (GAPI)	16

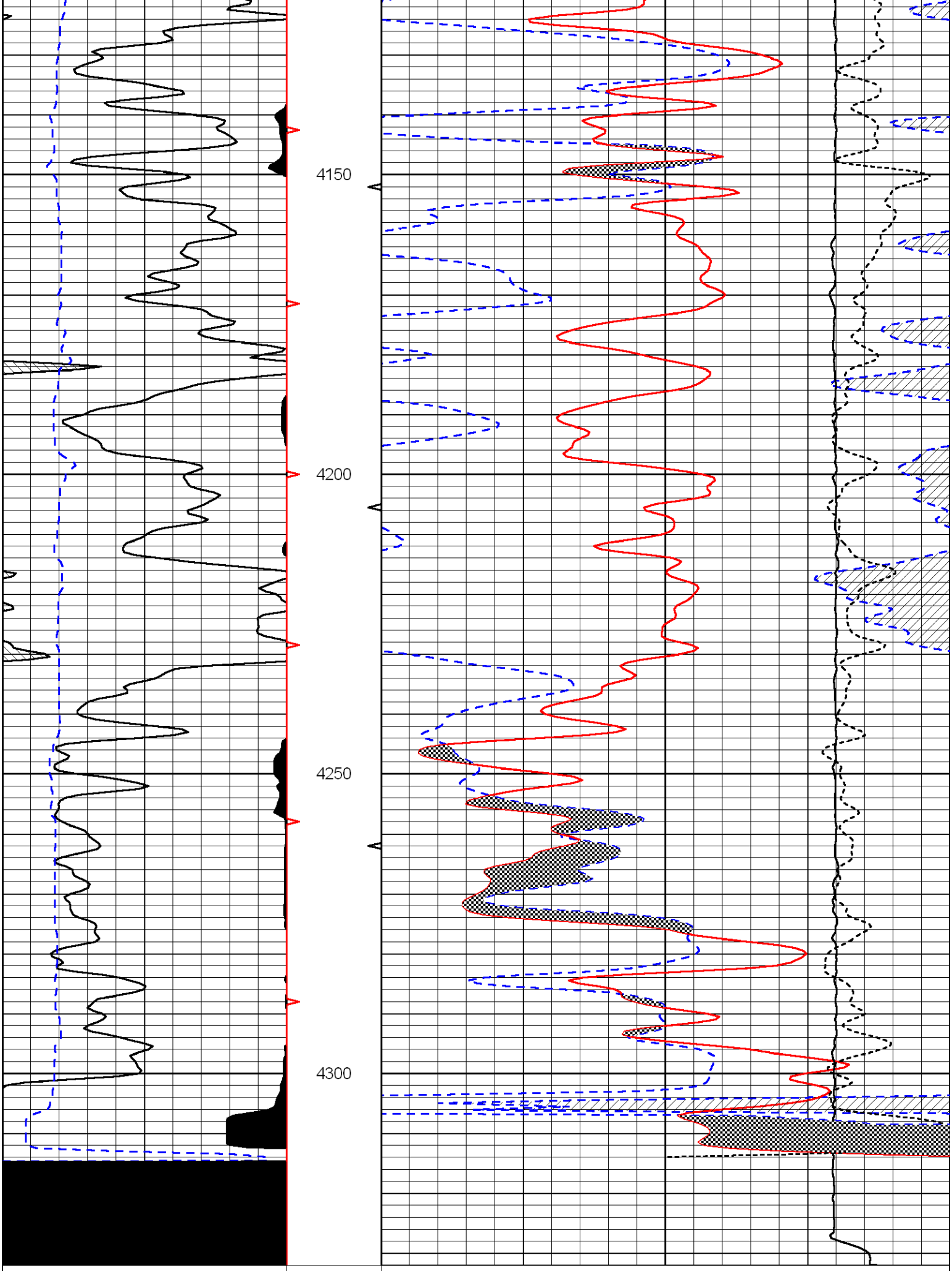
30	CNLS	-10
30	Compensated Density (2.71 ma)	-10
10000	Line Tension	0
-0.25	Correction	0.25




3500
3550
3600
3650


3700
3750
3800
3850
3900


3950
4000
4050
4100


4150
4200
4250
4300
0
Gamma Ray
150
30
CNLS
-10

6	Caliper (GAPI)	16

30	Compensated Density (2.71 ma)	-10
10000	Line Tension	0

-0.25	Correction	0.25