LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Compensated Porosity Log

API No. 15-065-23,775-00-00

Company H&C Oil Operating, Inc.

Well Bollig No. 12-1

Field Law Southeast

County Graham State Kansas

Location 1,320' FNL & 1,650' FWL

Sec: 12 Twp: 10S Rge: 23W

Permanent Datum Ground Level Elevation 2420

Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
DIL
MEL/BHCS

Elevation
K.B. 2425
D.F.
G.L. 2420

Date	10/5/2011
Run Number	One
Type Log	CNL / CDL
Depth Driller	4272
Depth Logger	4271
Bottom Logged Interval	4250
Top Logged Interval	3350
Type Fluid In Hole	Chemical
Salinity, PPM CL	3000
Density	9.2
Level	Full
Max. Rec. Temp. F	119
Operating Rig Time	4 Hours
Equipment -- Location	10 Hays
Recorded By	J. Long
Witnessed By	Clayton Erickson

Borehole Record

Run No.	Bit	From	To
1	12.25	00	270
2	7.875	270	4272

Casing Record

Size	Wgt.	From	To
8.625	24#	00	270

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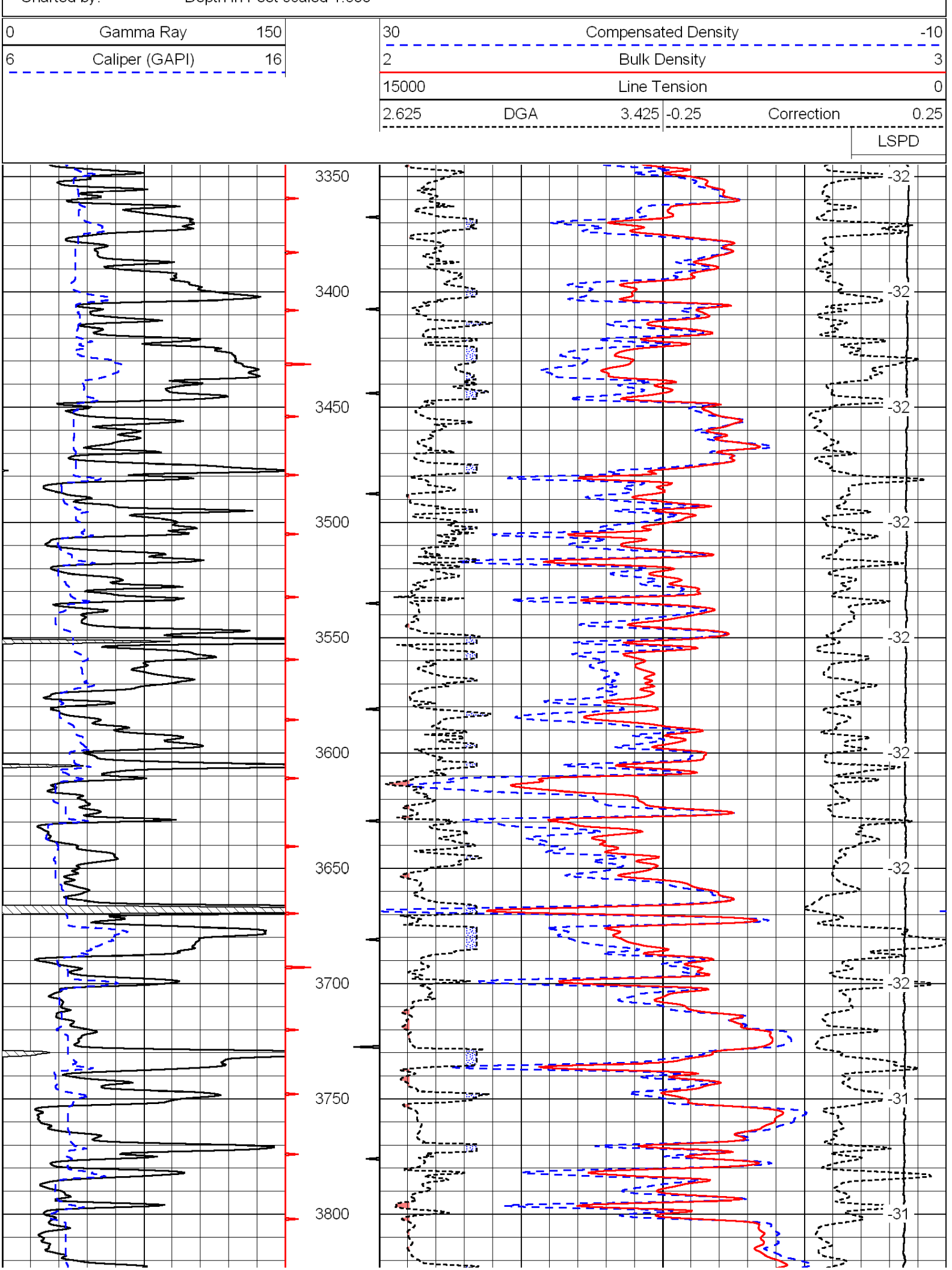
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

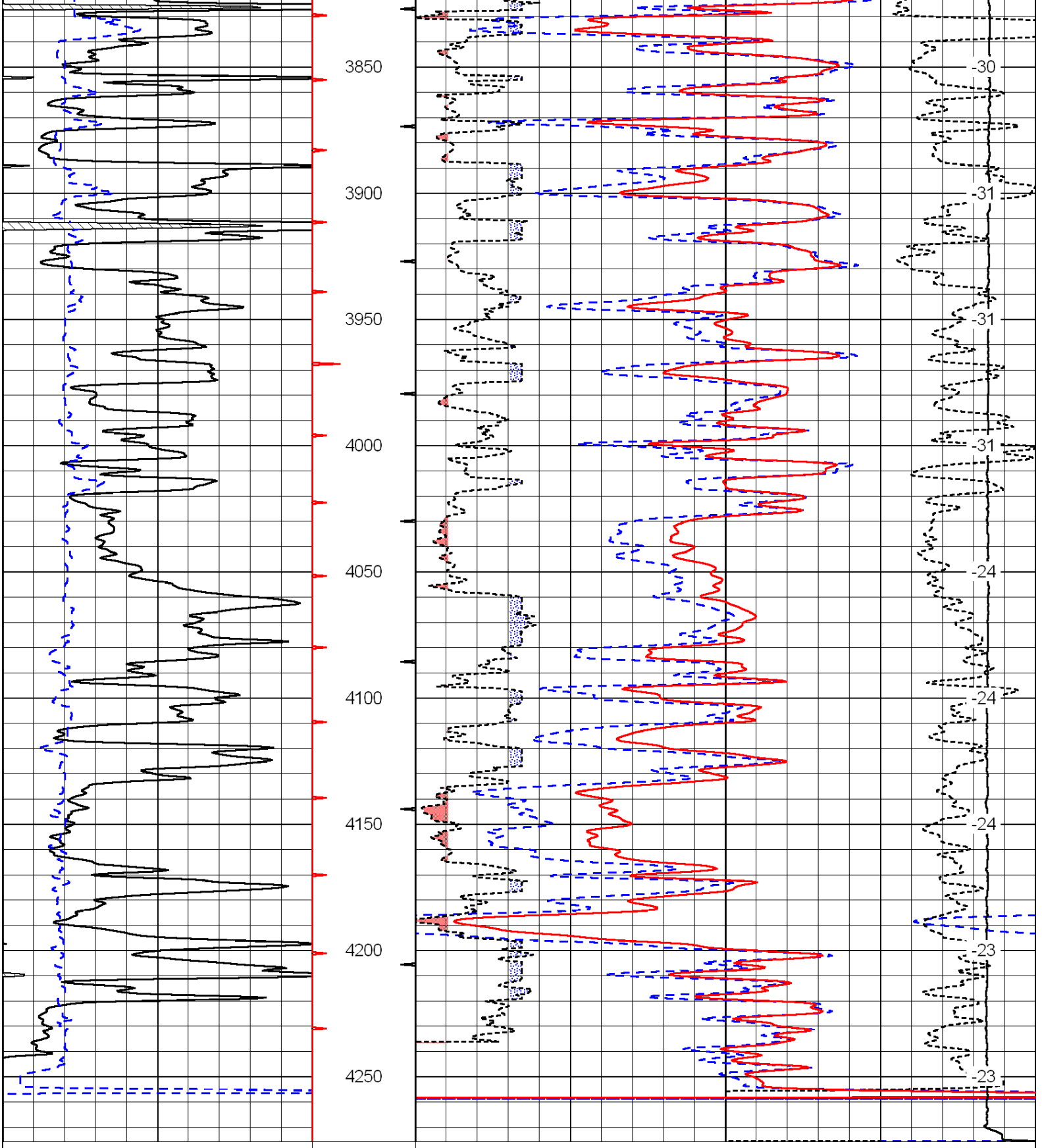
Comments

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

Wakeeney, North to H Road (Redline Road), 1 East to 270 Road, 2 South to F Road, 1/4 East, South Into

Database File:	c:\warrior\data\h&c_bollig no. 12-1\h&c_bollig_12-1hd.db
Dataset Pathname:	dil/hcstck
Presentation Format:	cdl
Dataset Creation:	Thu Oct 06 00:26:17 2011
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
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
-32
-32
-32
-32
-32
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-31
-31



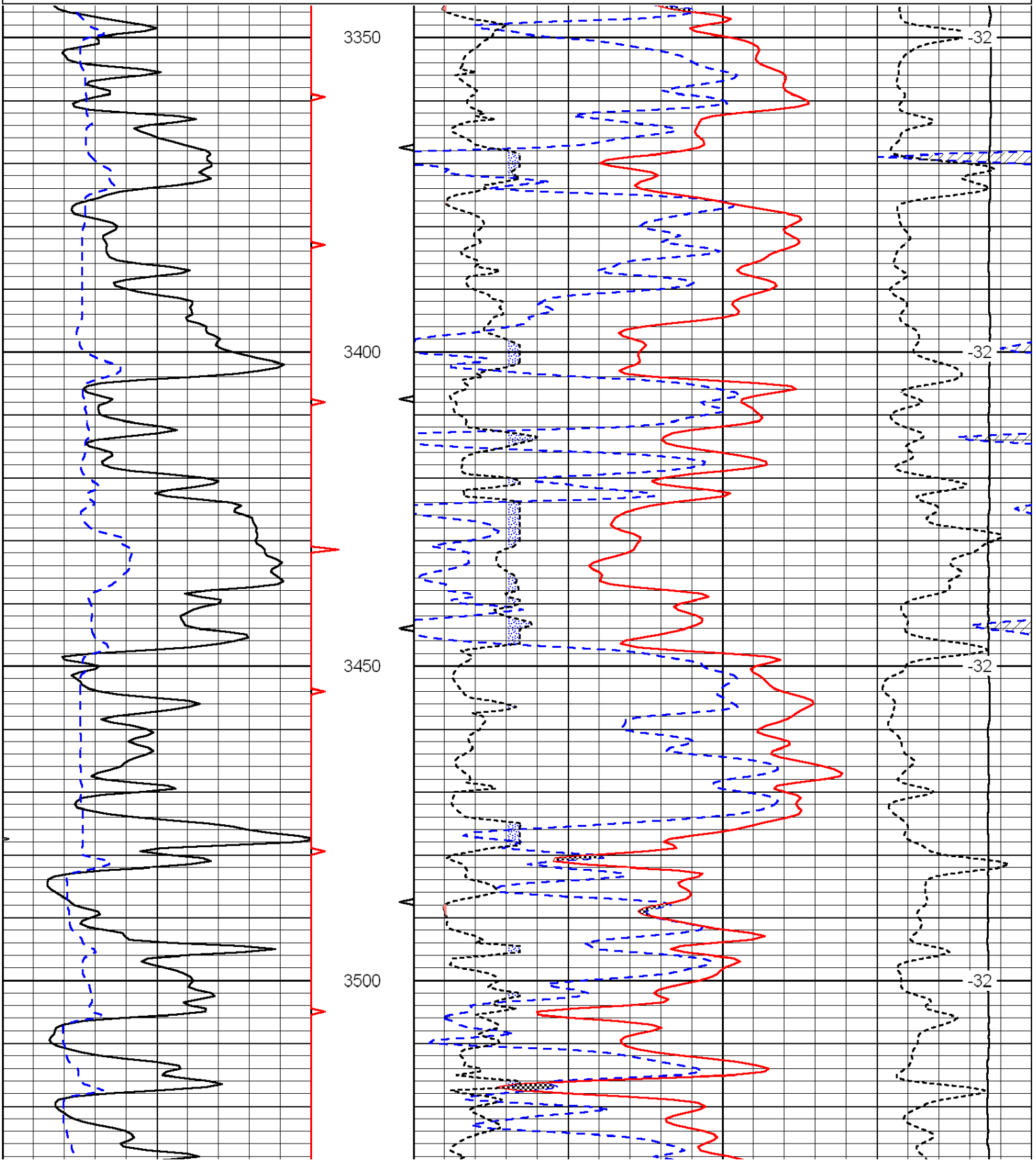
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Dataset Pathname: dil/hcstck

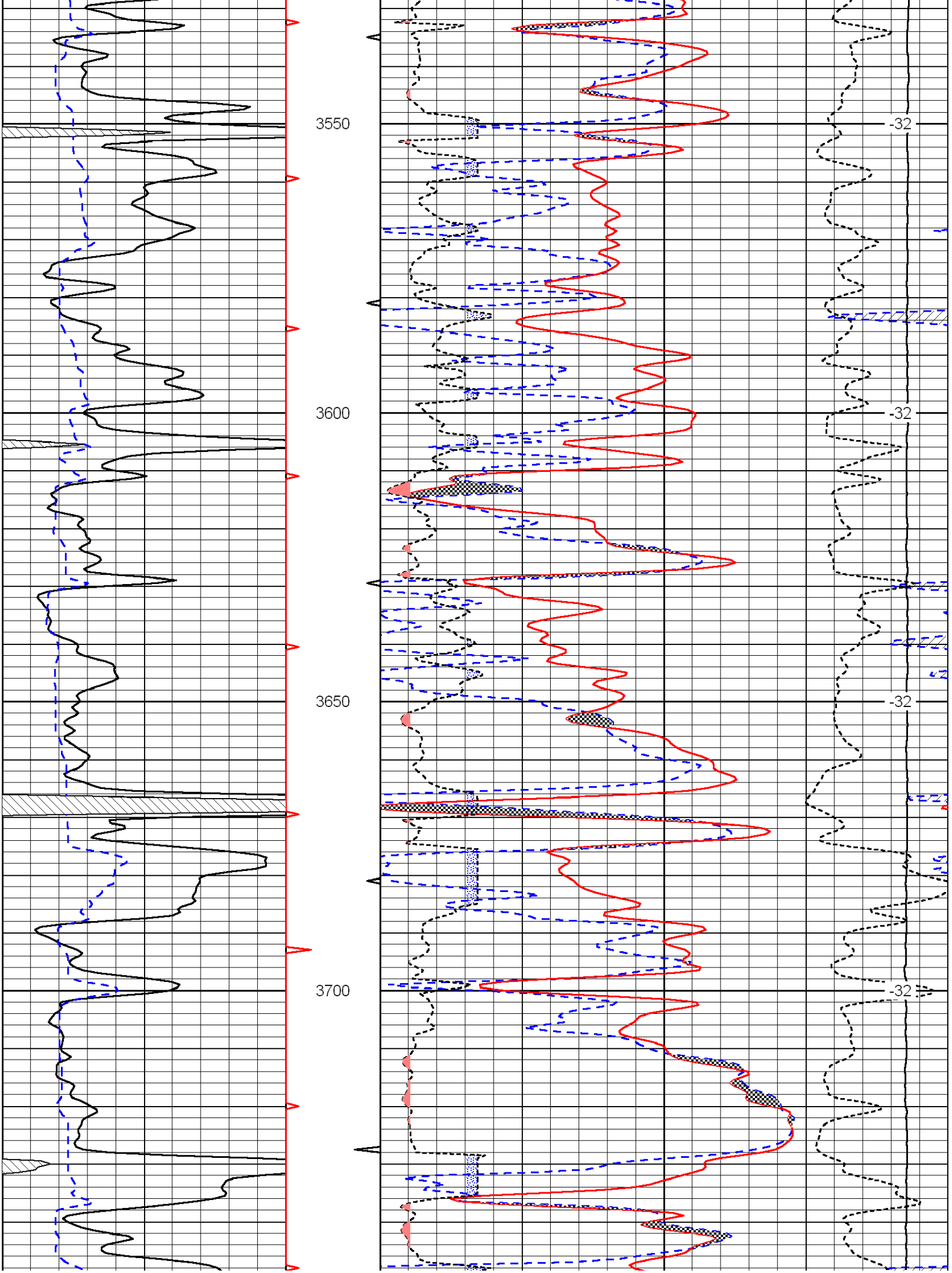
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Charted by:	Depth in Feet scaled 1:240

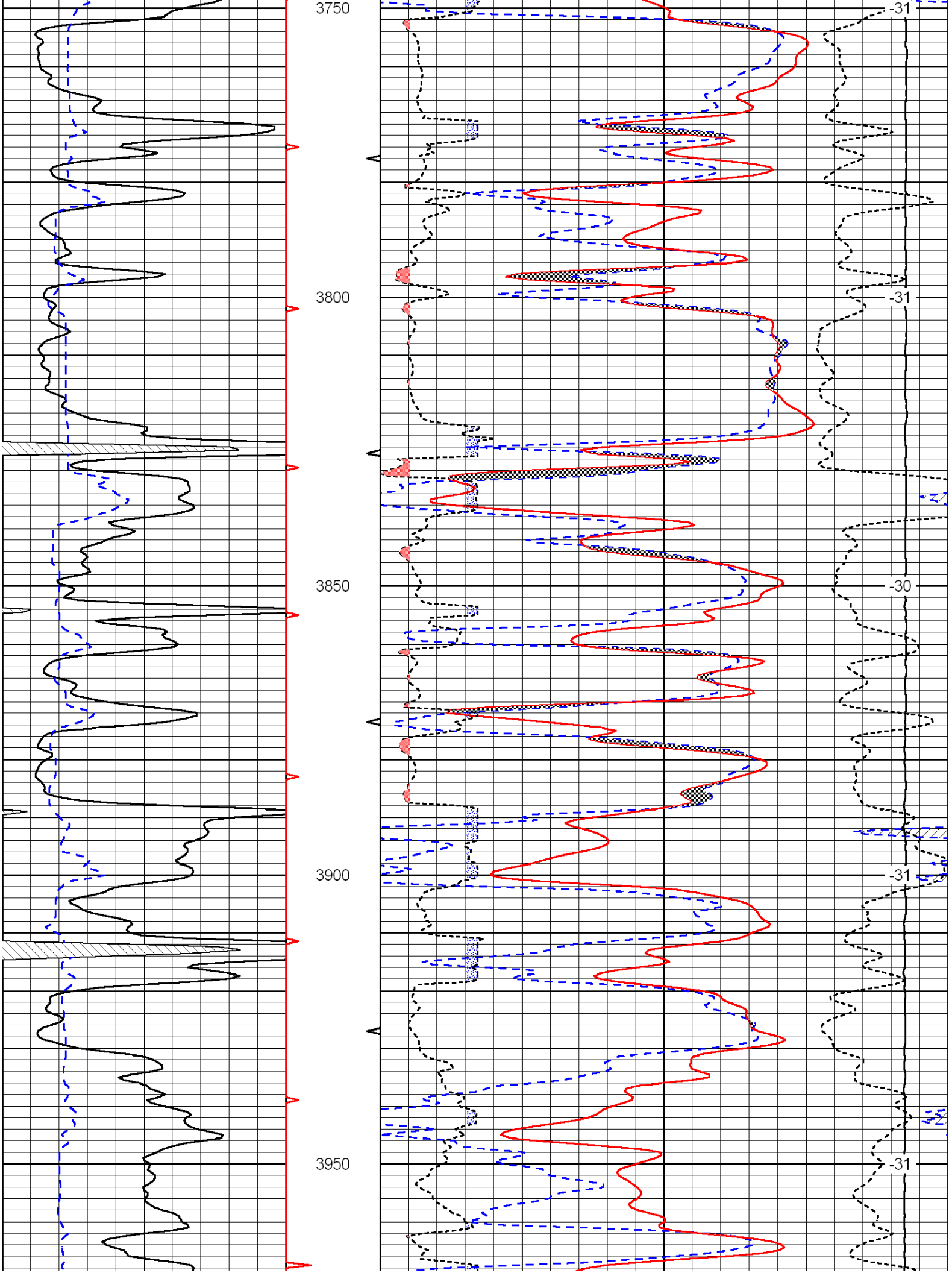
0	Gamma Ray	150
6	Caliper (GAPI)	16

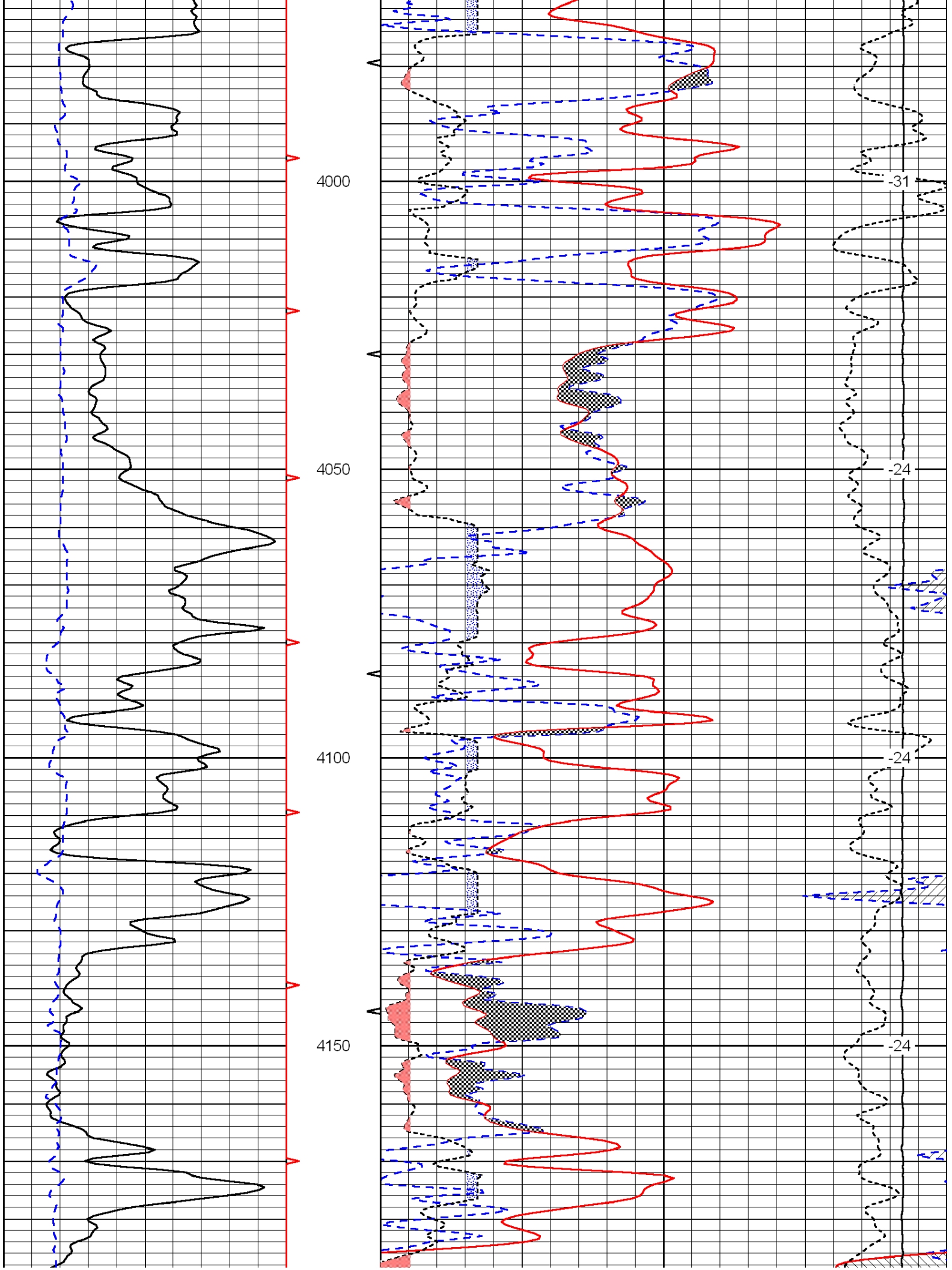
30	Compensated Neutron (Limestone)				-10
30	Compensated Density (Limestone)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0

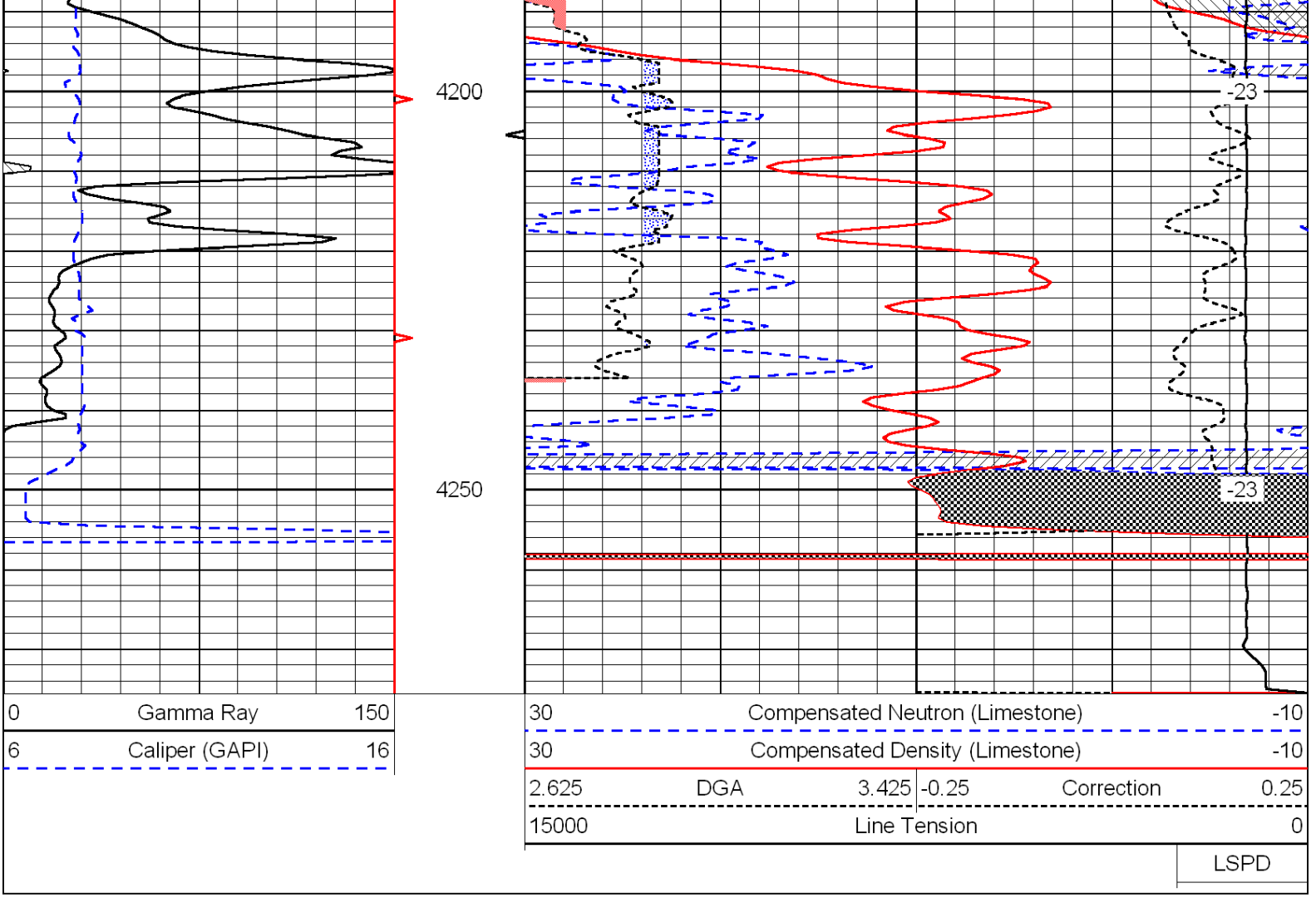
LSPD




3550
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-30
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-31


4000
4050
4100
4150
-31
-24
-24
-24


4200
4250
-23
-23
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