PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-195-22,971-00-00

Company H&C Oil Operating, Inc.

Well North Fork Farms #36-1

Field Shaw Creek Southeast

County Trego State Kansas

Location 1320' FSL & 500' FEL

Sec: 36 Twp: 11S Rge: 22W

Other Services
DIL
MEL/BHCS

Elevation
K.B. 2372
D.F.
G.L. 2364

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Date	11/16/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	4154
Depth Logger	4154
Bottom Logged Interval	4133
Top Logged Interval	3300
Type Fluid In Hole	Chemical
Salinity, PPM CL	4000
Density	9.3
Level	Full
Max. Rec. Temp. F	118
Operating Rig Time	4 1/2 Hours
Equipment -- Location	15 Hays
Recorded By	D.Kerr
Witnessed By	Al Downing

Borehole Record

Run No.	Bit	From	To
1	12.25	00	223
2	7.875	223	4154

Casing Record

Size	Wgt.	From	To
8.625	24#	00	223

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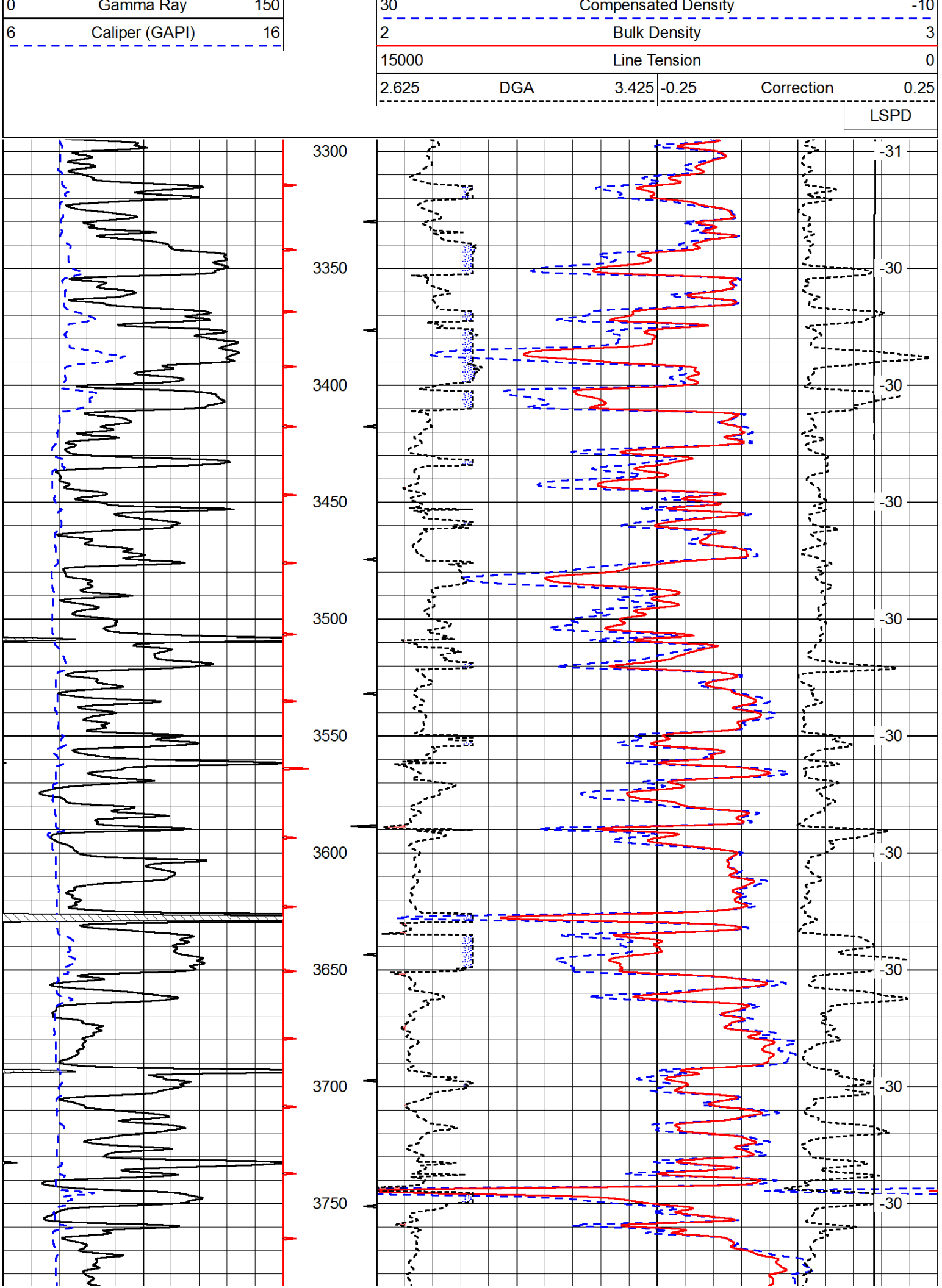
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

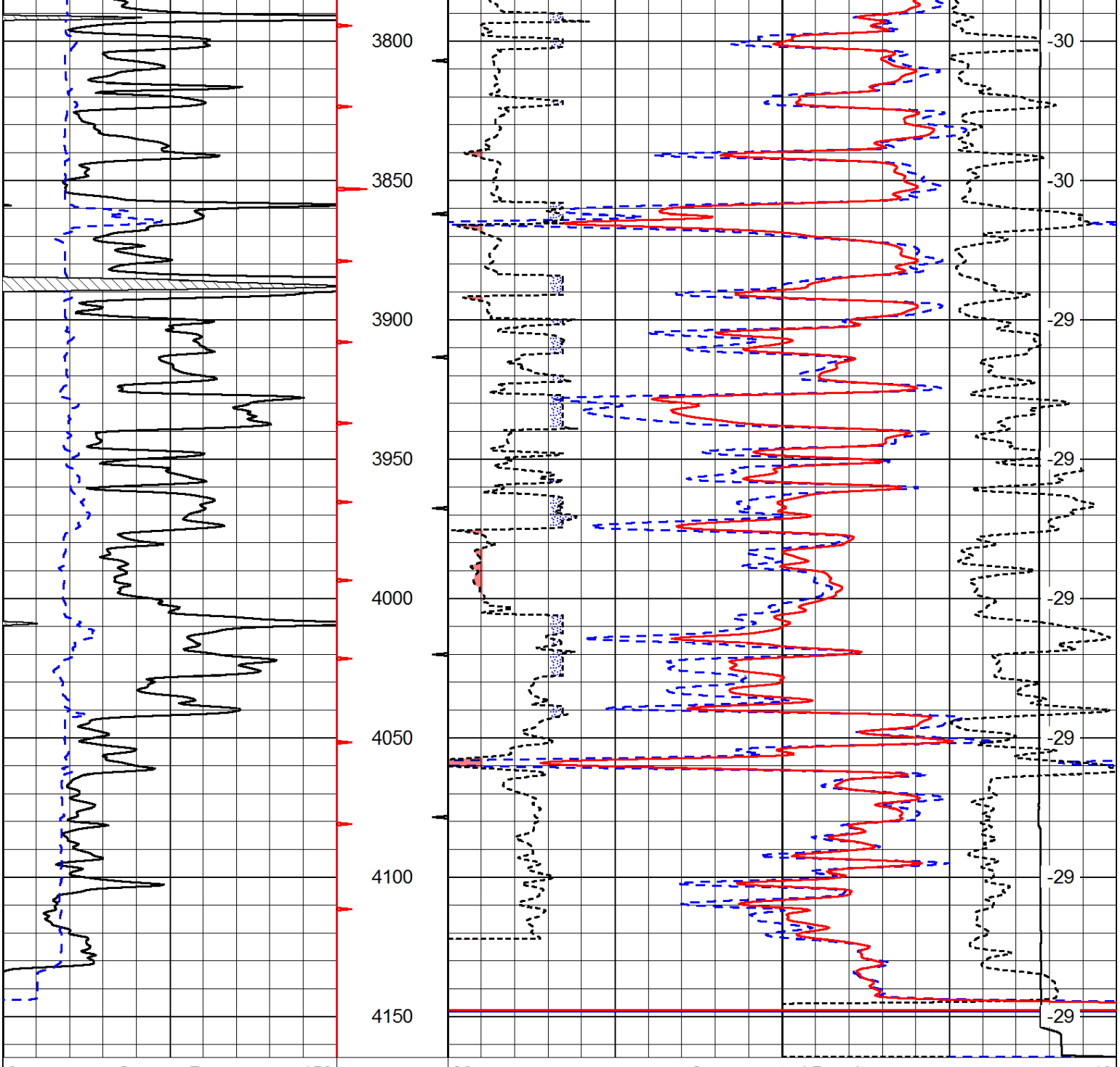
Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

I-70 and Riga RD Exit, North to H RD,
West to 350 RD, 1 North, 1/8 West, North Into

Database File:	c:\warrior\data\h&c_north fork farms #36-1\h&c_northforkfarms_36_1hd.db
Dataset Pathname:	DIL/hcstk
Presentation Format:	cdl
Dataset Creation:	Sun Nov 16 03:39:25 2014
Charted by:	Depth in Feet scaled 1:600

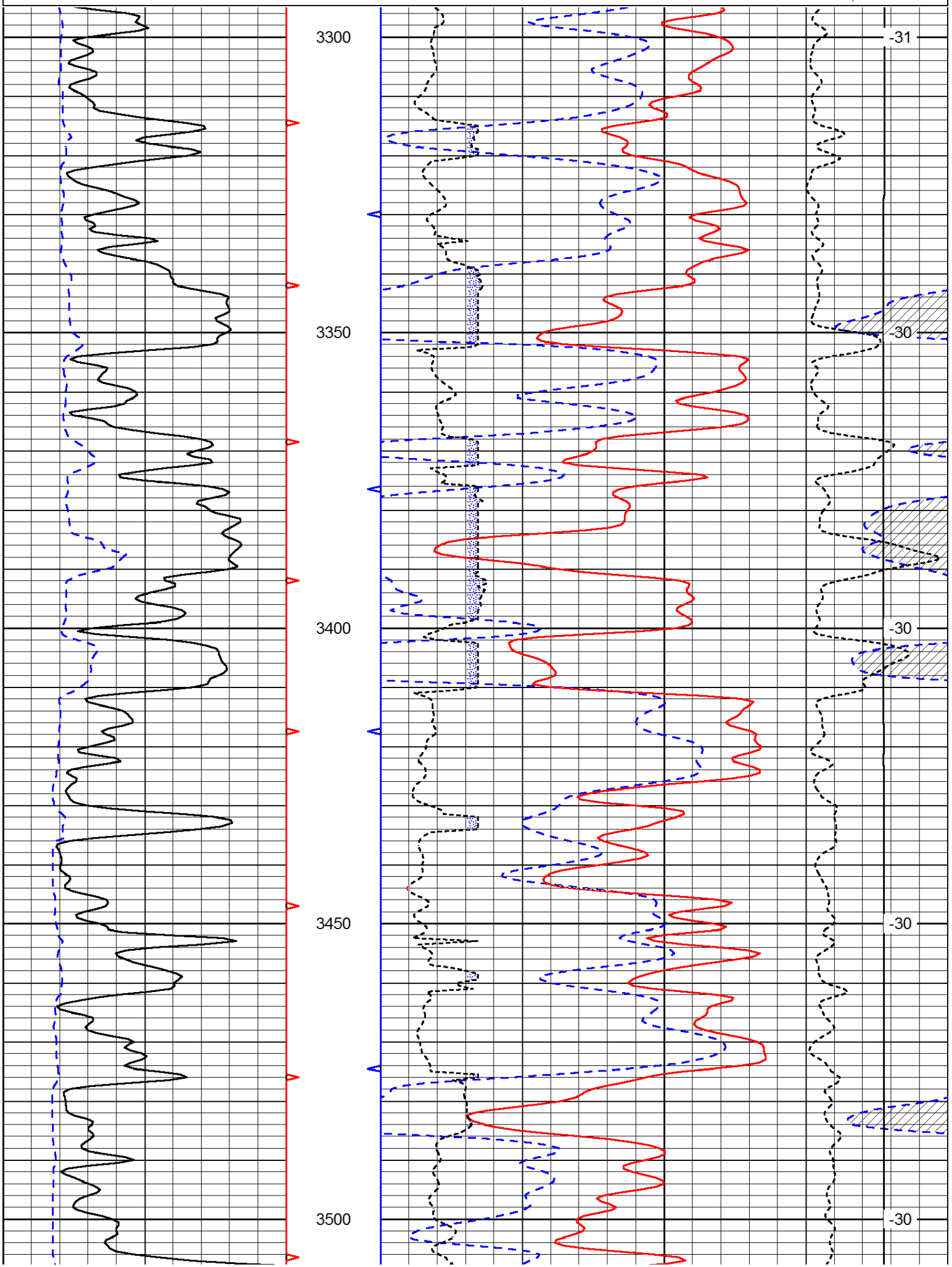

0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compensated Density -10
2 Bulk Density 3
15000 Line Tension 0
2.625 DGA 3.425 -0.25 Correction 0.25
LSPD
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
-31
-30
-30
-30
-30
-30
-30
-30
-30

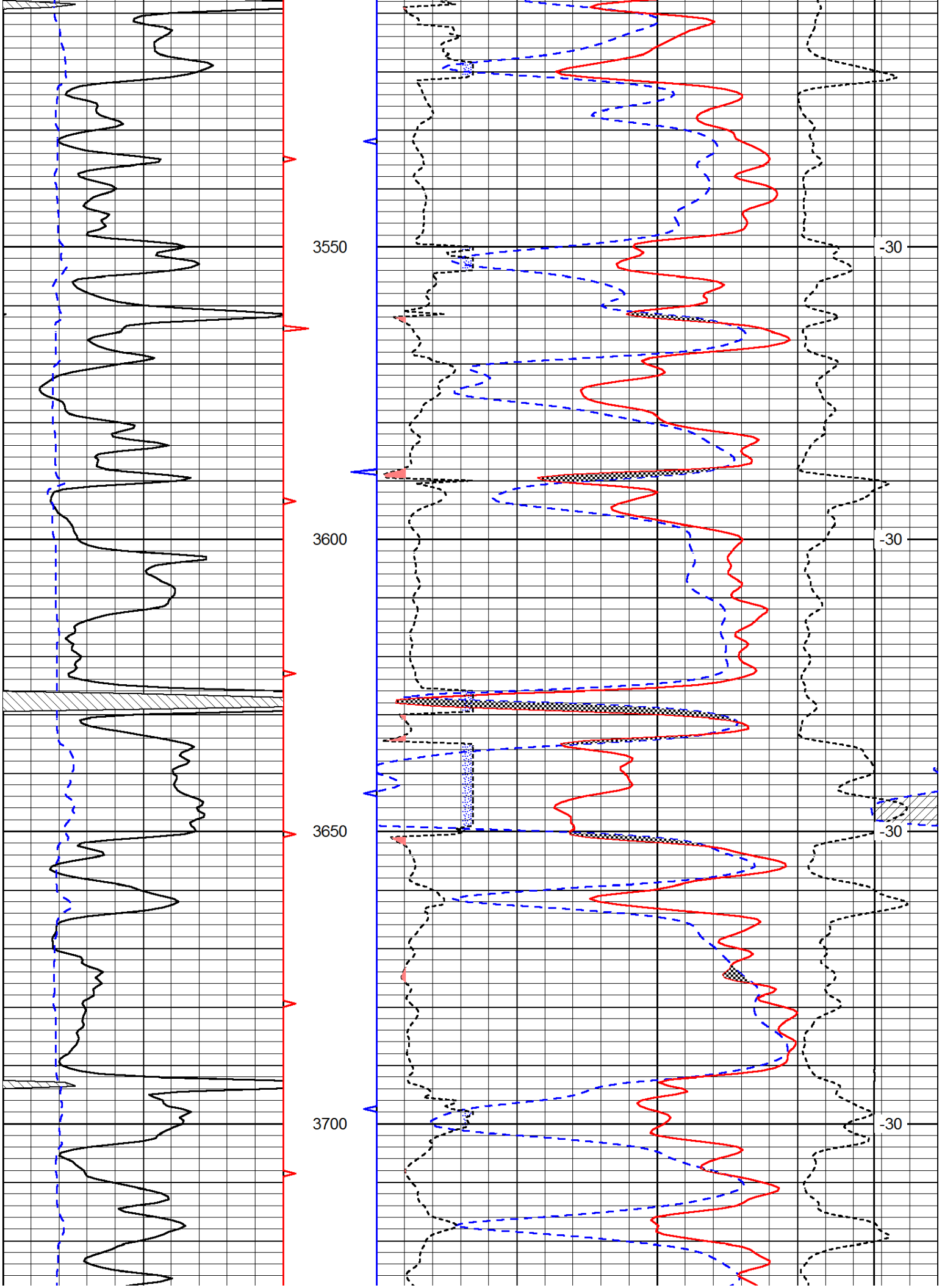


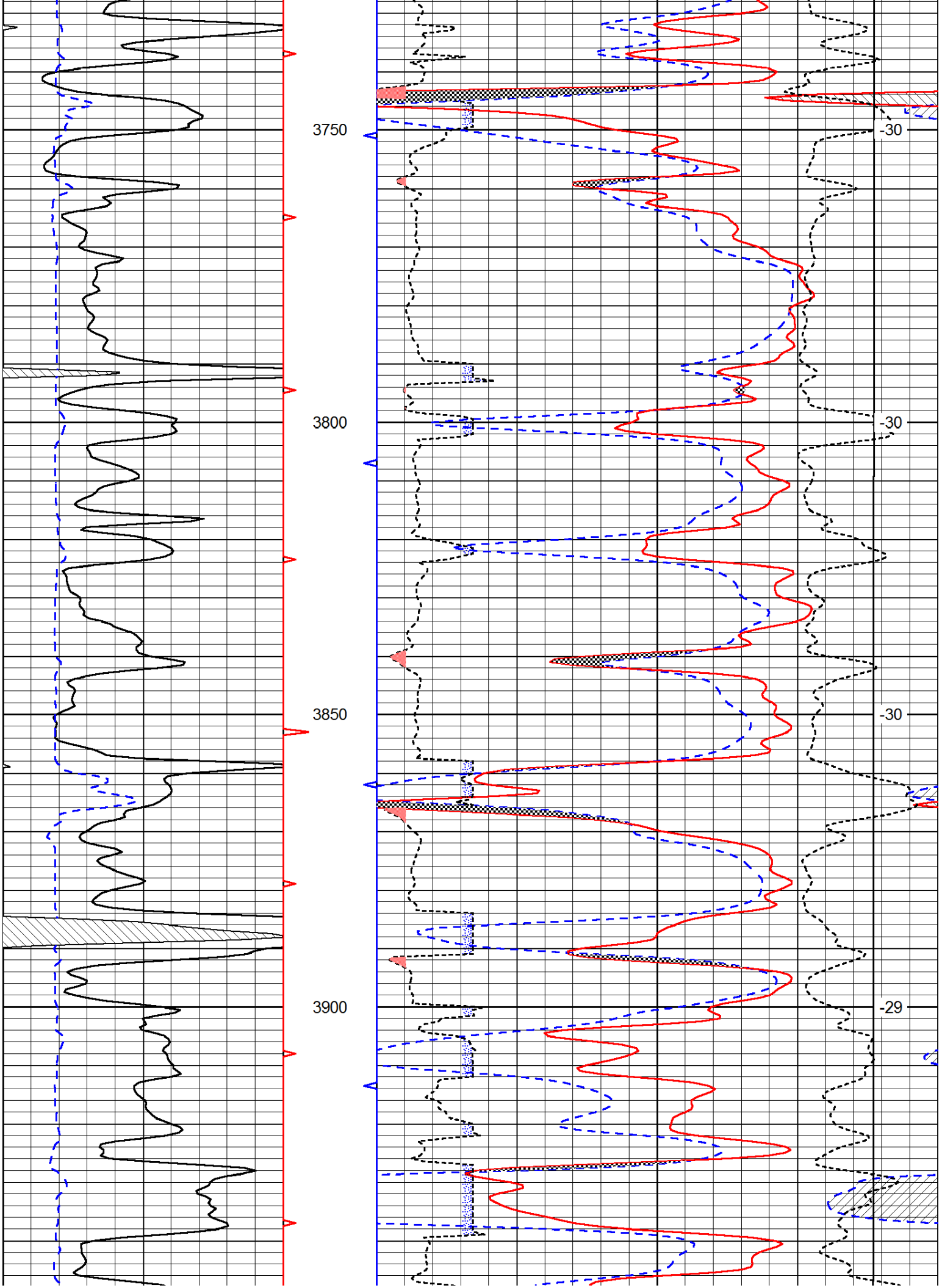
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Presentation Format: cndlspec
Dataset Creation: Sun Nov 16 03:39:25 2014
Charted by: Depth in Feet scaled 1:240

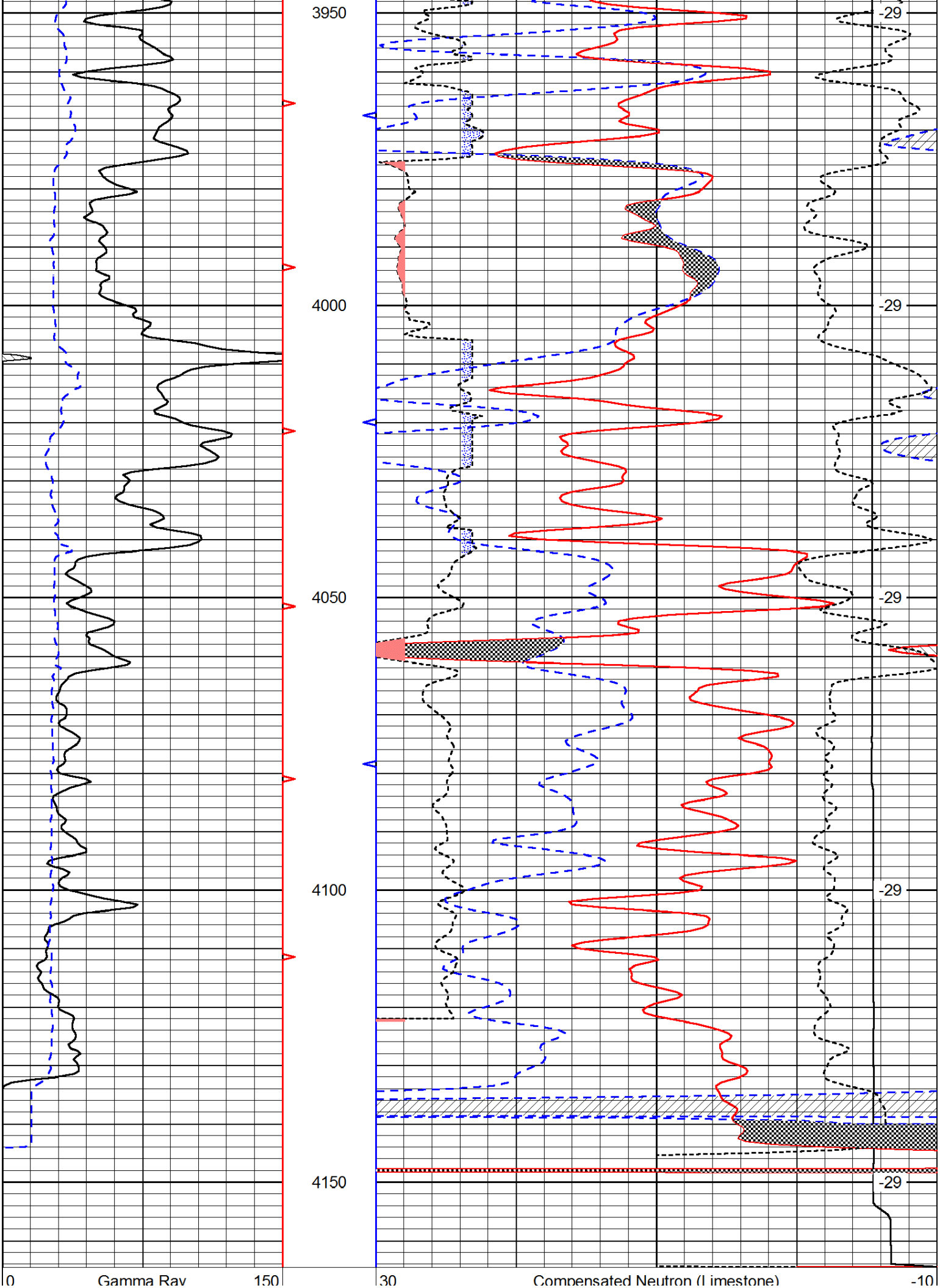
0	Gamma Ray	150
6	Caliper (GAPI)	16

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


LSPD
3300
3350
3400
3450
3500
-31
-30
-30
-30
-30


3550
3600
3650
3700
-30
-30
-30
-30


3750
3800
3850
3900
-30
-30
-30
-29


3950
4000
4050
4100
4150
-29
-29
-29
-29
0
Gamma Ray
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Compensated Neutron (Limestone)
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