PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-147-20,710-00-00

Company Bach Oil Production

Well Candy Krafft #2

Field Woodruff

County Phillips State Kansas

Location 2000' FSL & 330' FWL

Sec: 12 Twp: 1S Rge: 19W

Other Services
DIL
MEL

Permanent Datum	Ground Level	Elevation 2073	Elevation
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	K.B. 2078
Drilling Measured From	Kelly Bushing		D.F.
			G.L. 2073

Date	5/18/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3562
Depth Logger	3563
Bottom Logged Interval	3542
Top Logged Interval	2800
Type Fluid In Hole	Chemical
Salinity, PPM CL	800
Density	9.2
Level	Full
Max. Rec. Temp. F	112
Operating Rig Time	3 1/2 Hours
Equipment -- Location	17 Hays
Recorded By	C. Desaire
Witnessed By	Bob Petersen

Borehole Record

Run No.	Bit	From	To
1	12.25	00	214
2	7.875	214	3562

Casing Record

Size	Wgt.	From	To
8.625	#24	00	214

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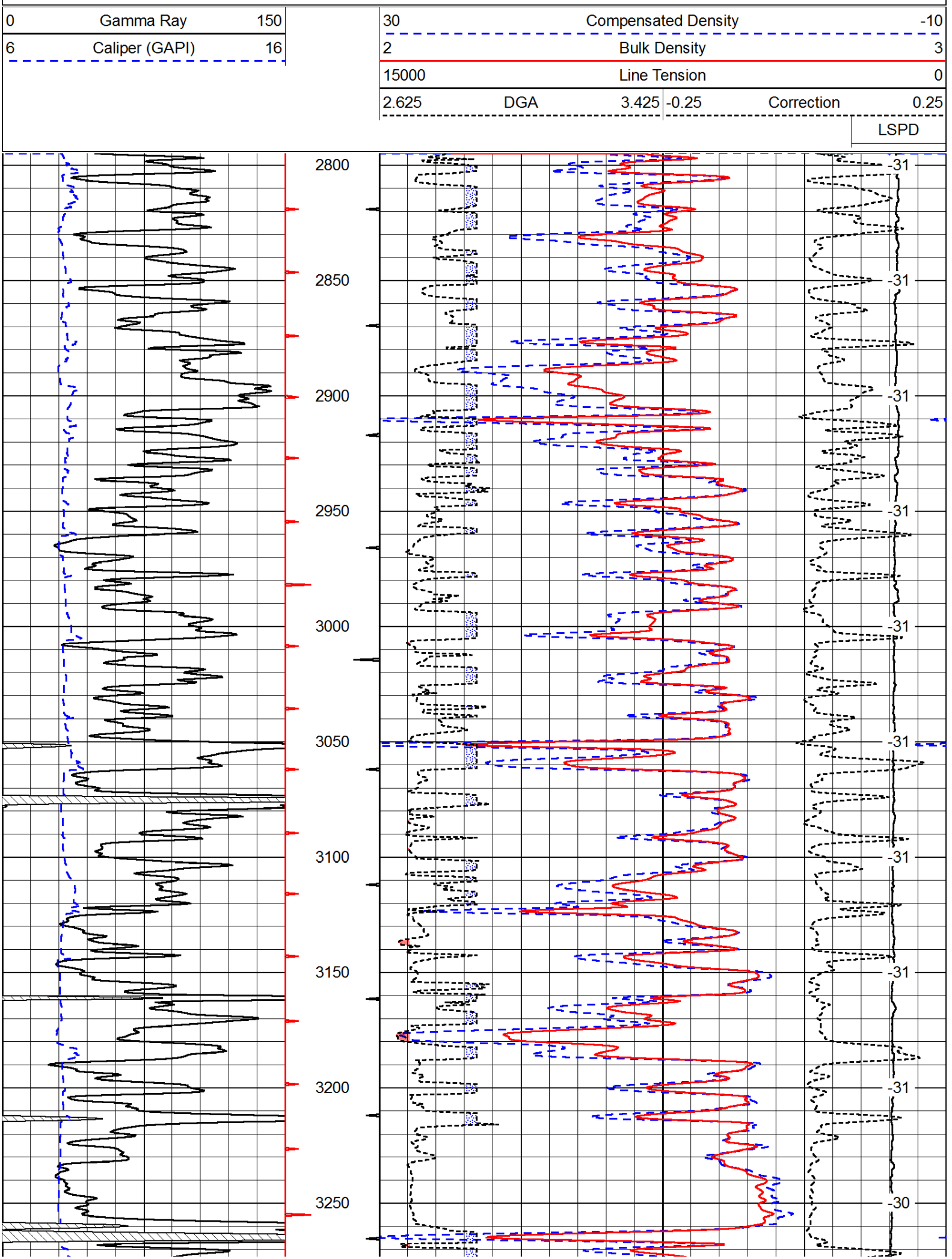
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

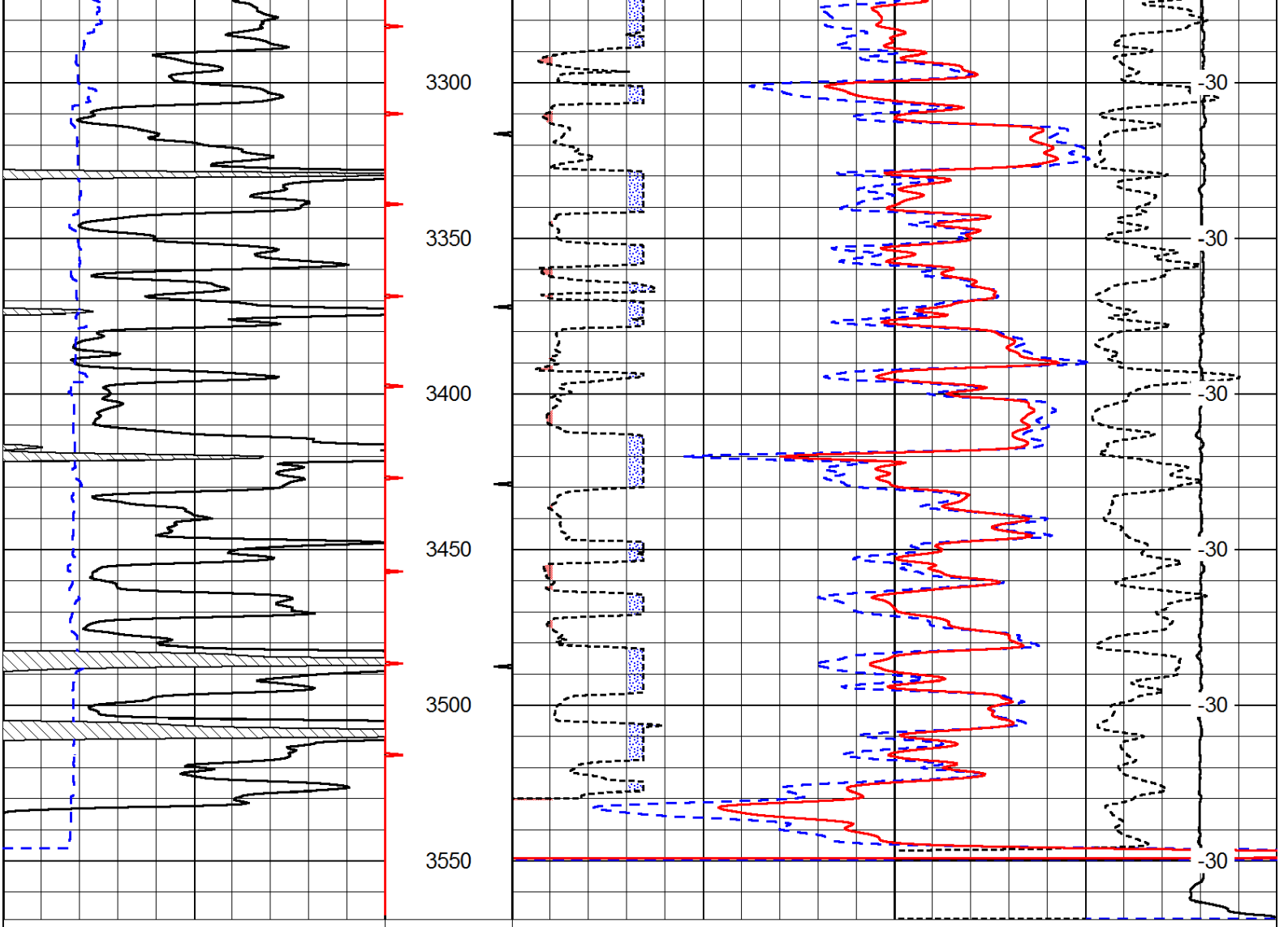
Comments

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

Phillipsburg KS, N on Hwy 183 to 383 Junction,
3 W to 500 Rd, 1 S, E Into

Database File:	c:\warrior\data\bach_candy krafft #2\bachhd.db
Dataset Pathname:	dil/bachstk
Presentation Format:	cdl
Dataset Creation:	Sat May 18 11:10:54 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
2.625 DGA 3.425
-0.25 Correction 0.25
LSPD
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
-31
-30



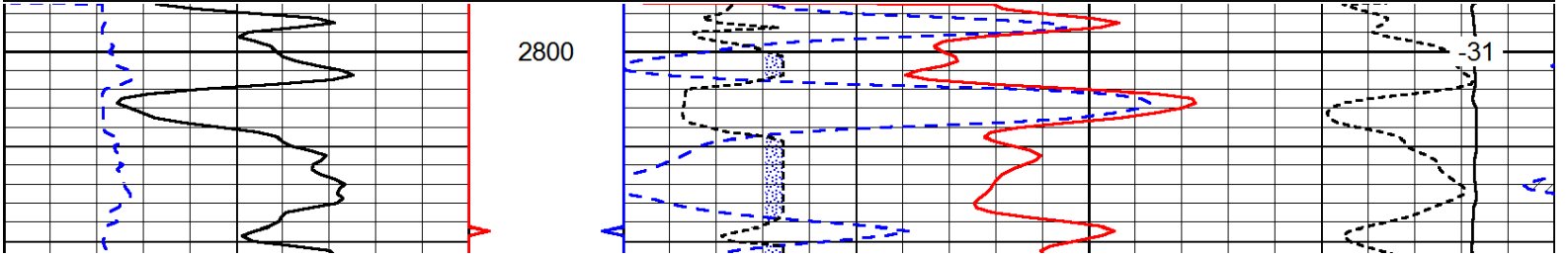
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6	Caliper (GAPI)	16

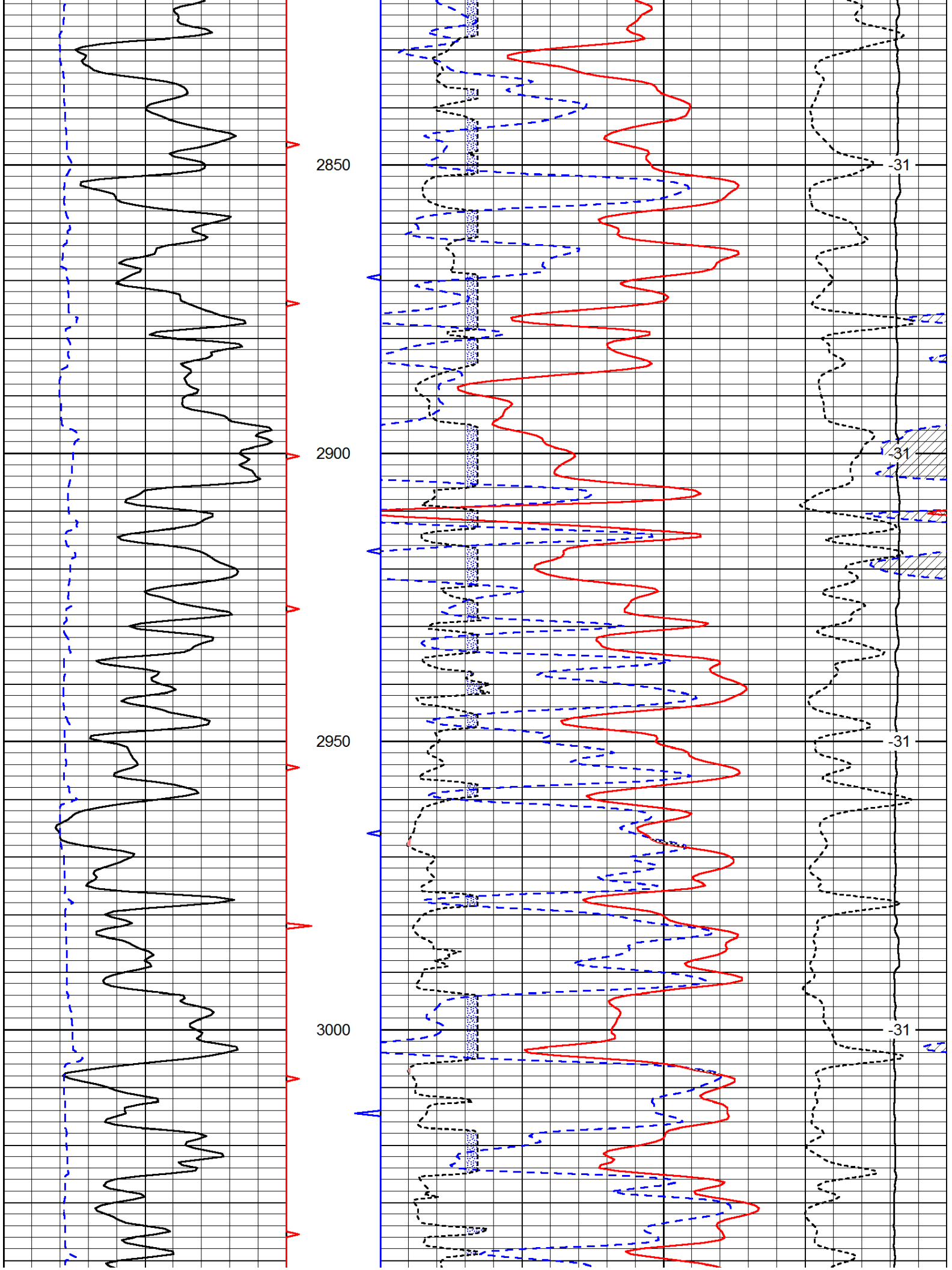
30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
2.625	DGA 3.425 -0.25 Correction	0.25
	LSPD	

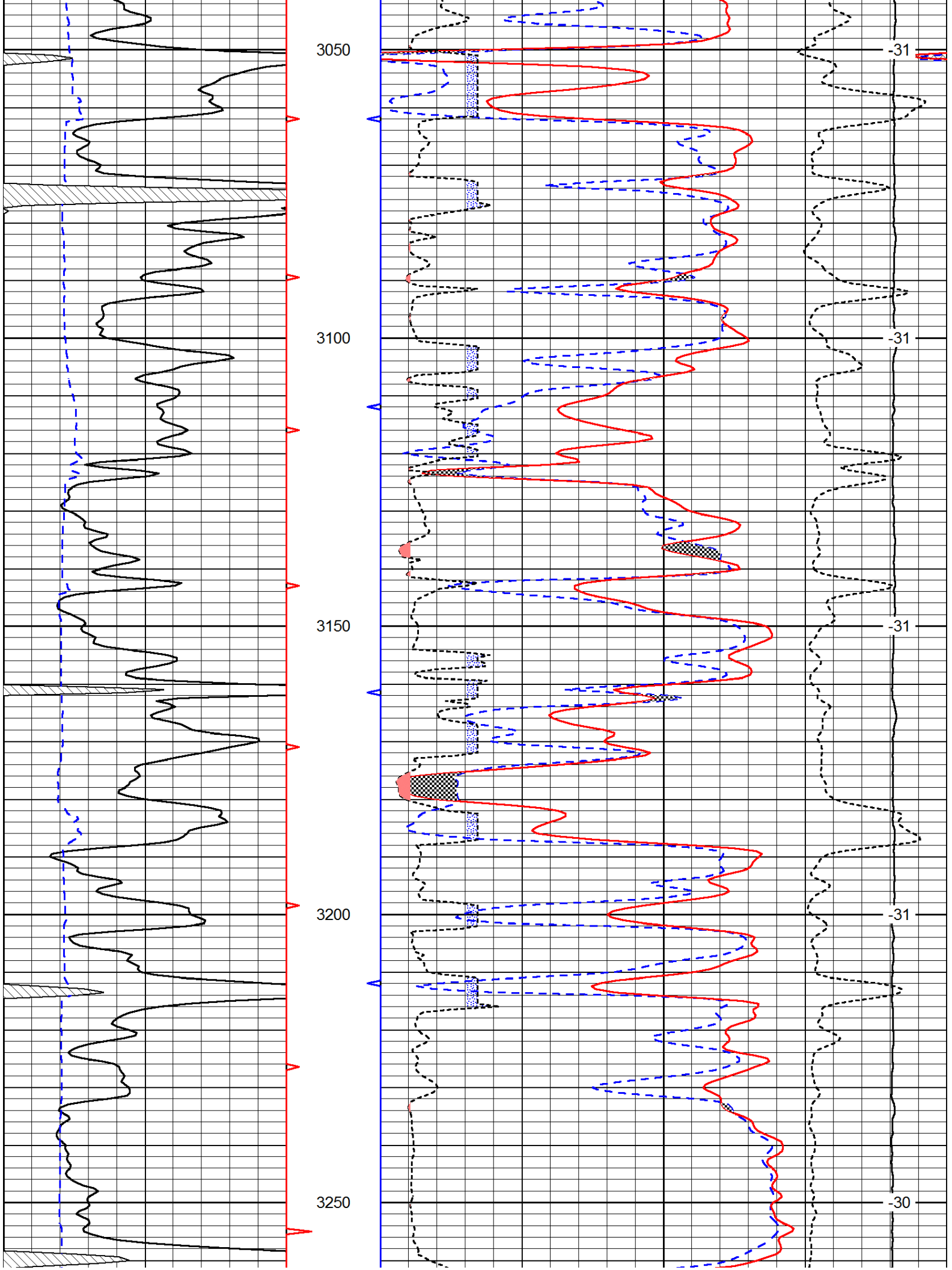
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Presentation Format: cndlspec
Dataset Creation: Sat May 18 11:10:54 2013
Charted by: Depth in Feet scaled 1:240

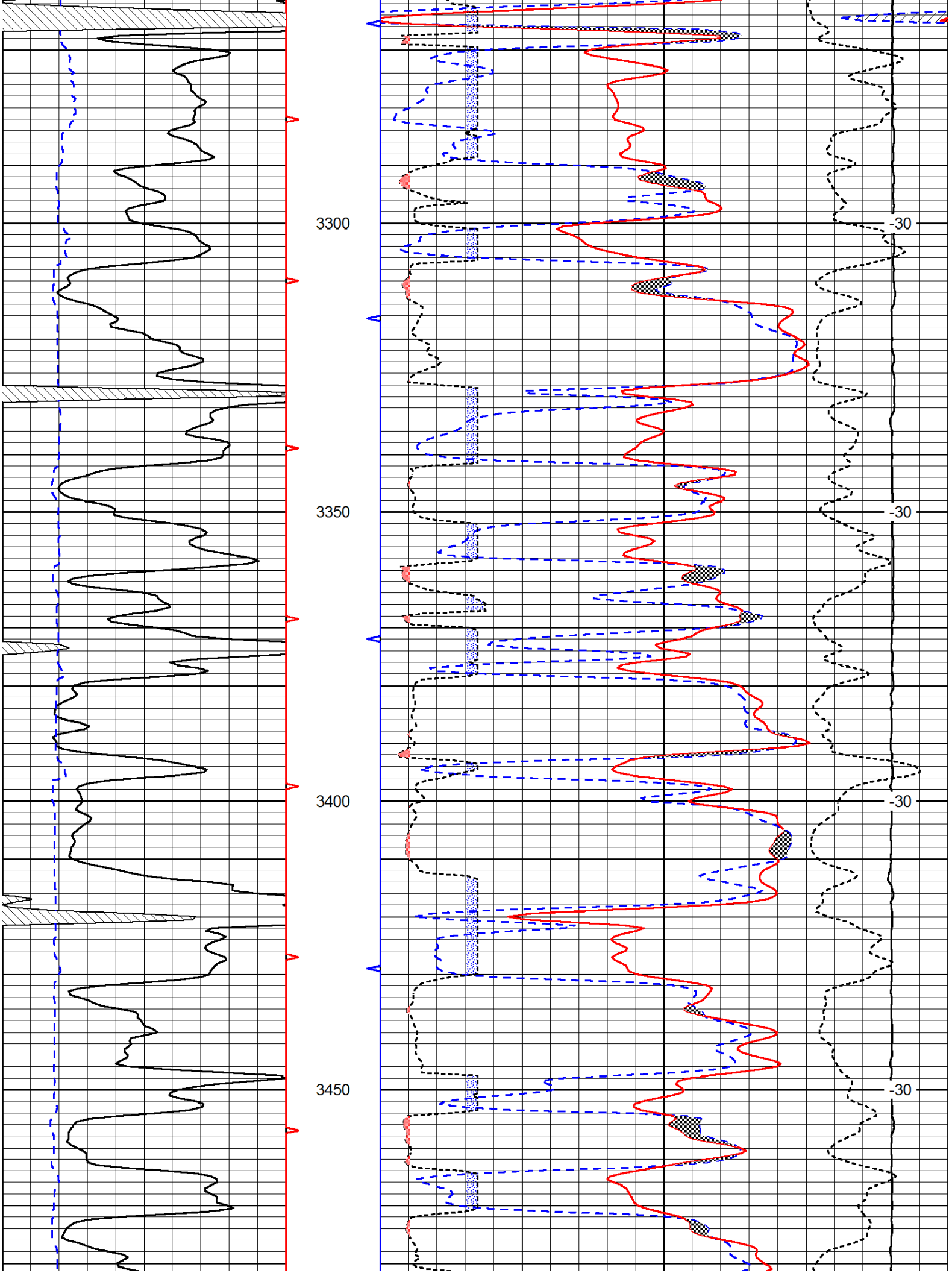
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6	Caliper (GAPI)	16

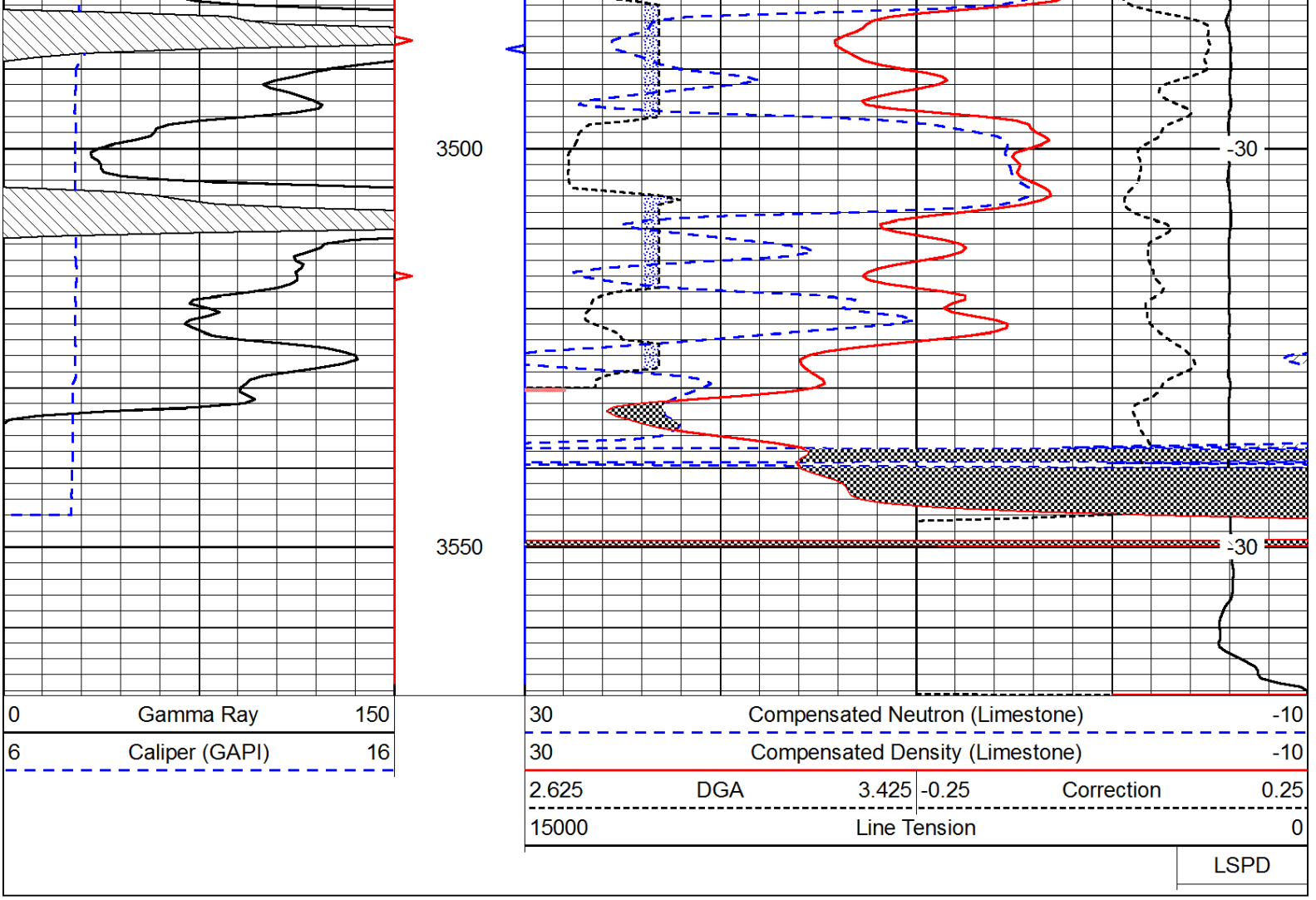
30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10
2.625	DGA 3.425 -0.25 Correction	0.25
15000	Line Tension	0
	LSPD	




2850
2900
2950
3000
-31
-31
-31
-31


3050
3100
3150
3200
3250
-31
-31
-31
-31
-30


3300
3350
3400
3450
-30
-30
-30



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