



Pioneer Energy Services

Dual Compensated Porosity Log

15-009-25956-00-00

Company K-Bar Oil
Well Joanie #4
Field Chase-Silica
County Barton
State Kansas

Location 405' FNL' & 1091' FWL
Sec: 3 Twp: 20S Rge: 11W

Other Services
DIL
MEI/BHCS

Permanent Datum Ground Level Elevation 1774
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1779
D.F.
G.L. 1774

Date 4/6/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3390

Depth Logger 3388

Bottom Logged Interval 3367

Top Logged Interval 2550

Type Fluid In Hole Chemical

Salinity, PPM CL 3000

Density 9.1

Level Full

Max. Rec. Temp. F 112

Operating Rig Time 4 Hours

Equipment -- Location 91 Hays

Recorded By D. Schmidt

Witnessed By Herb Deines

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	373	8.625	24#	00	373
2	7.875	373	3390				

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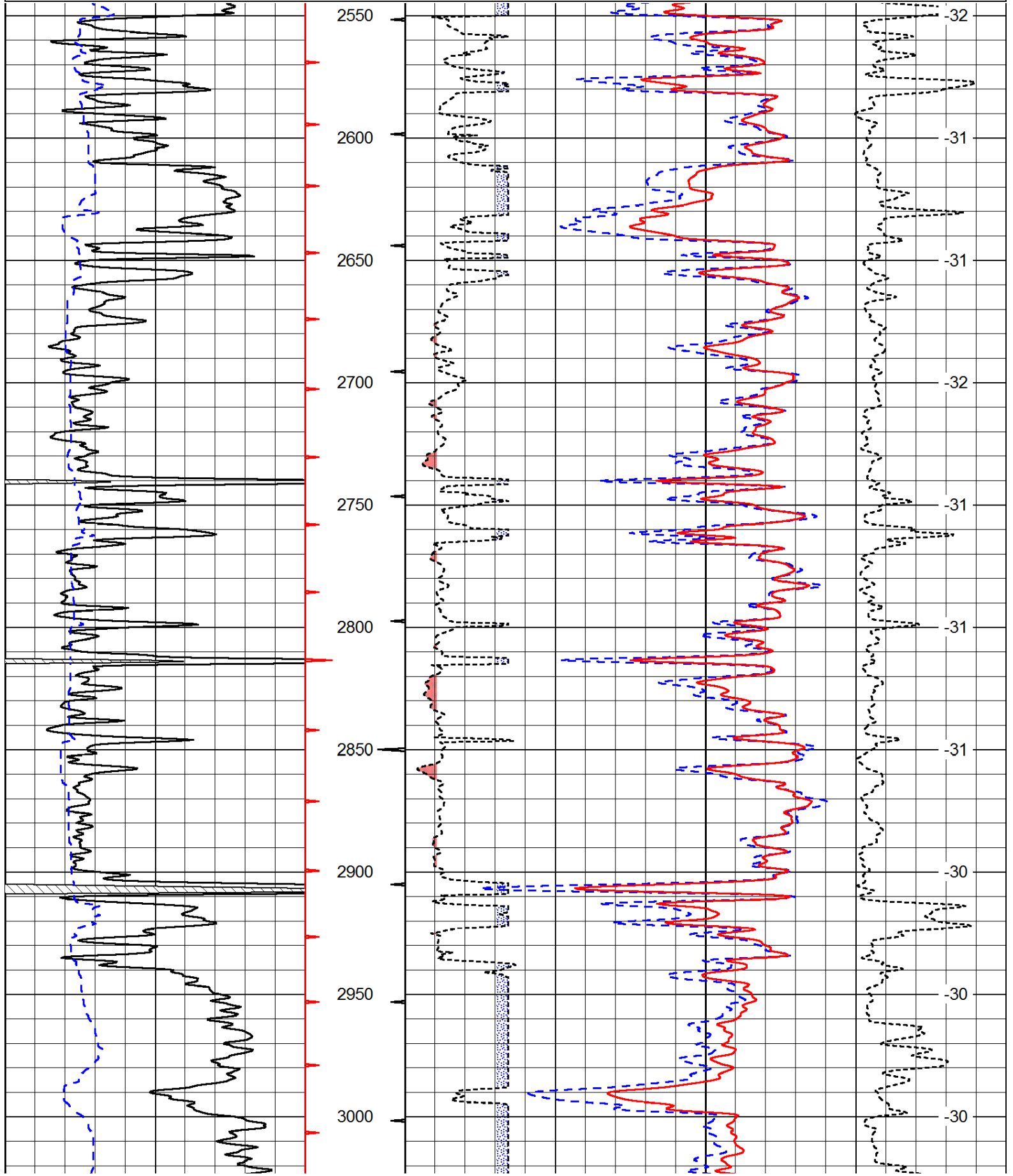
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

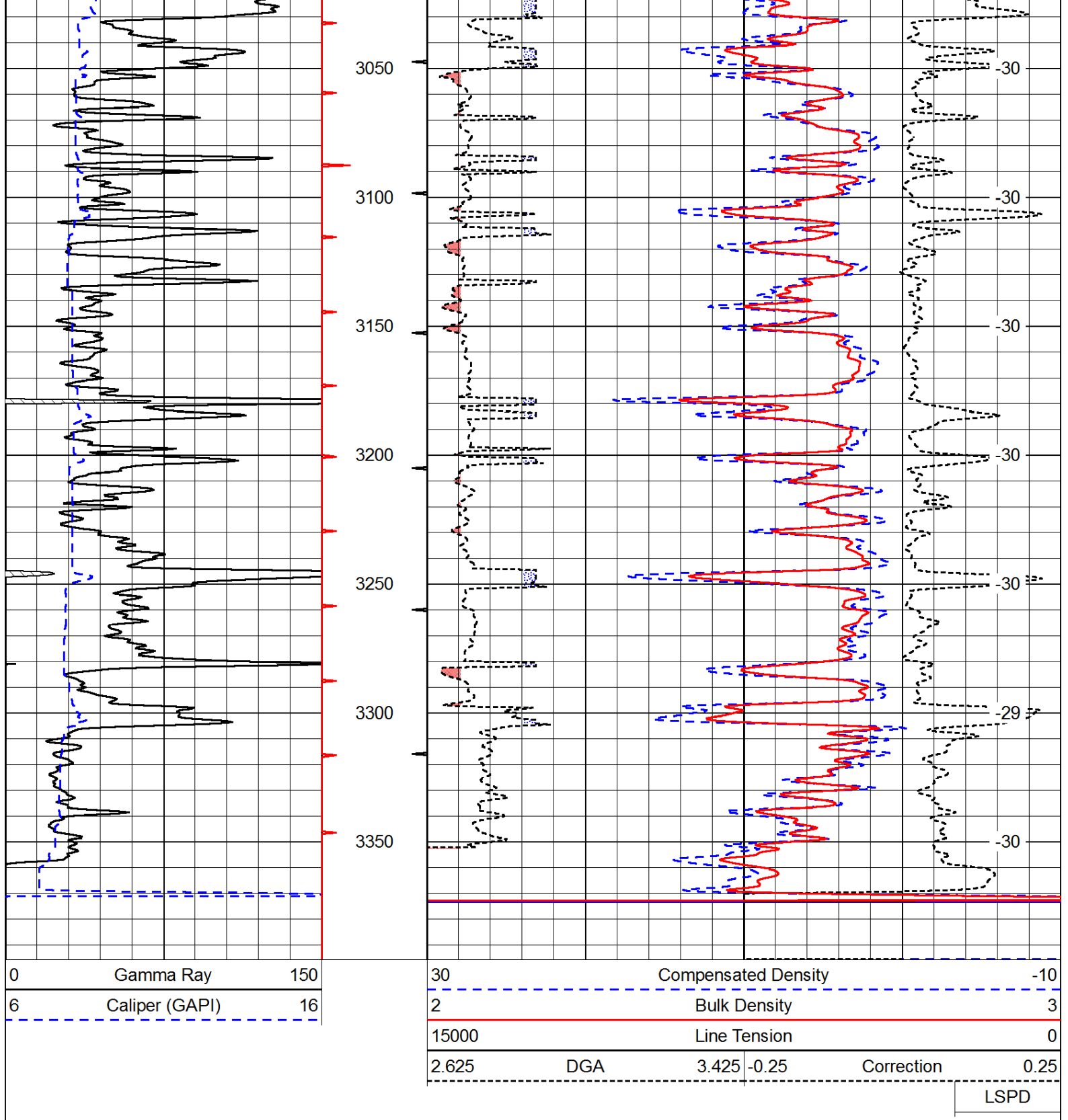
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Ellinwood,
East to SE 130 Ave, 50 yards South,
East into

Database File: c:\warrior\data\k-bar oil_joanie #4\kbar_040614hd.db
Dataset Pathname: dil/kstckml
Presentation Format: cdl
Dataset Creation: Sun Apr 06 07:48:16 2014
Charted by: Depth in Feet scaled 1:600

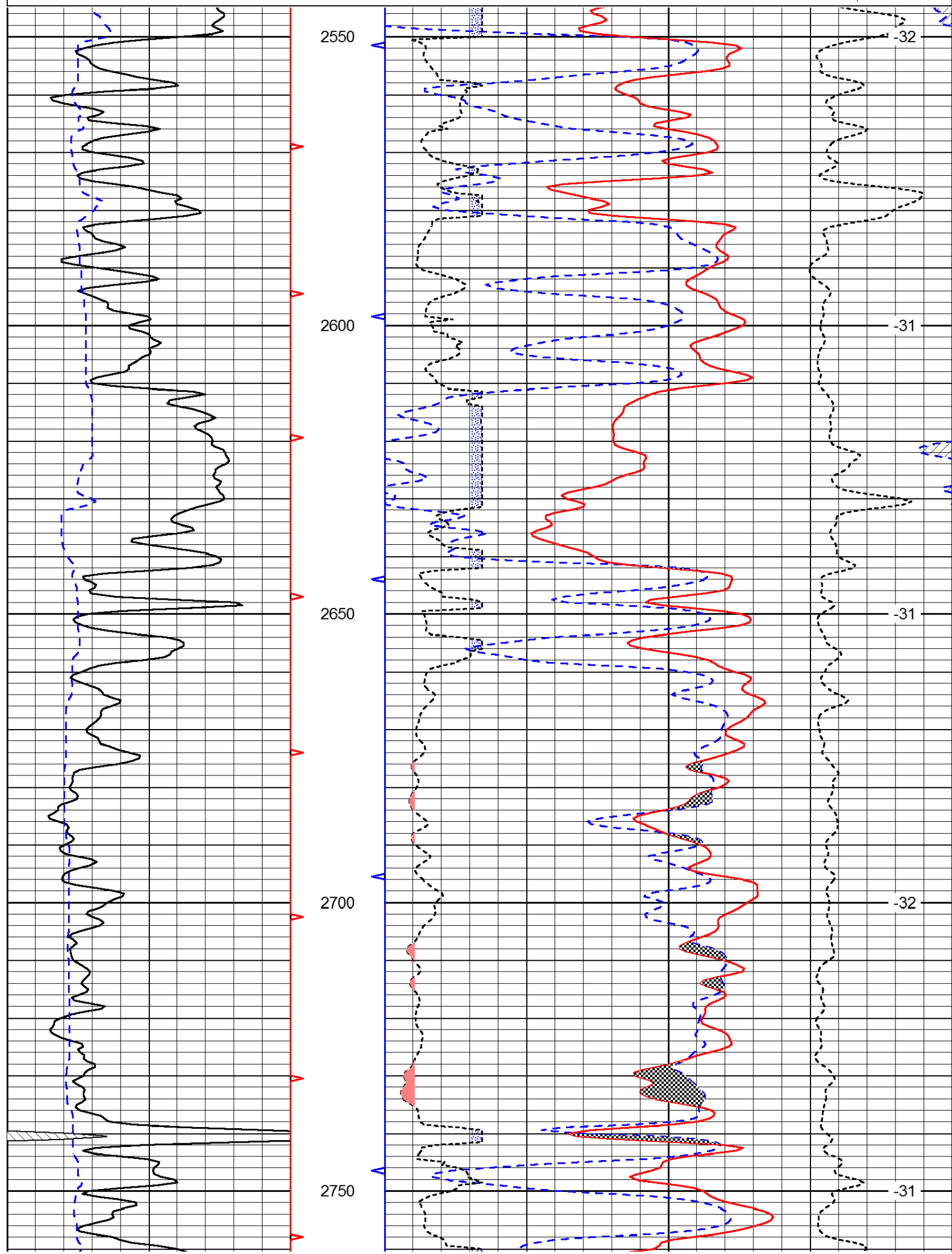
Charted by: Depth in Feet scaled 1:500		
0	Gamma Ray	150
6	Caliper (GAPI)	16
30	Compensated Density	
2	Bulk Density	
15000	Line Tension	
2.625	DGA	3.425
-0.25	Correction	0.25
		LSPD

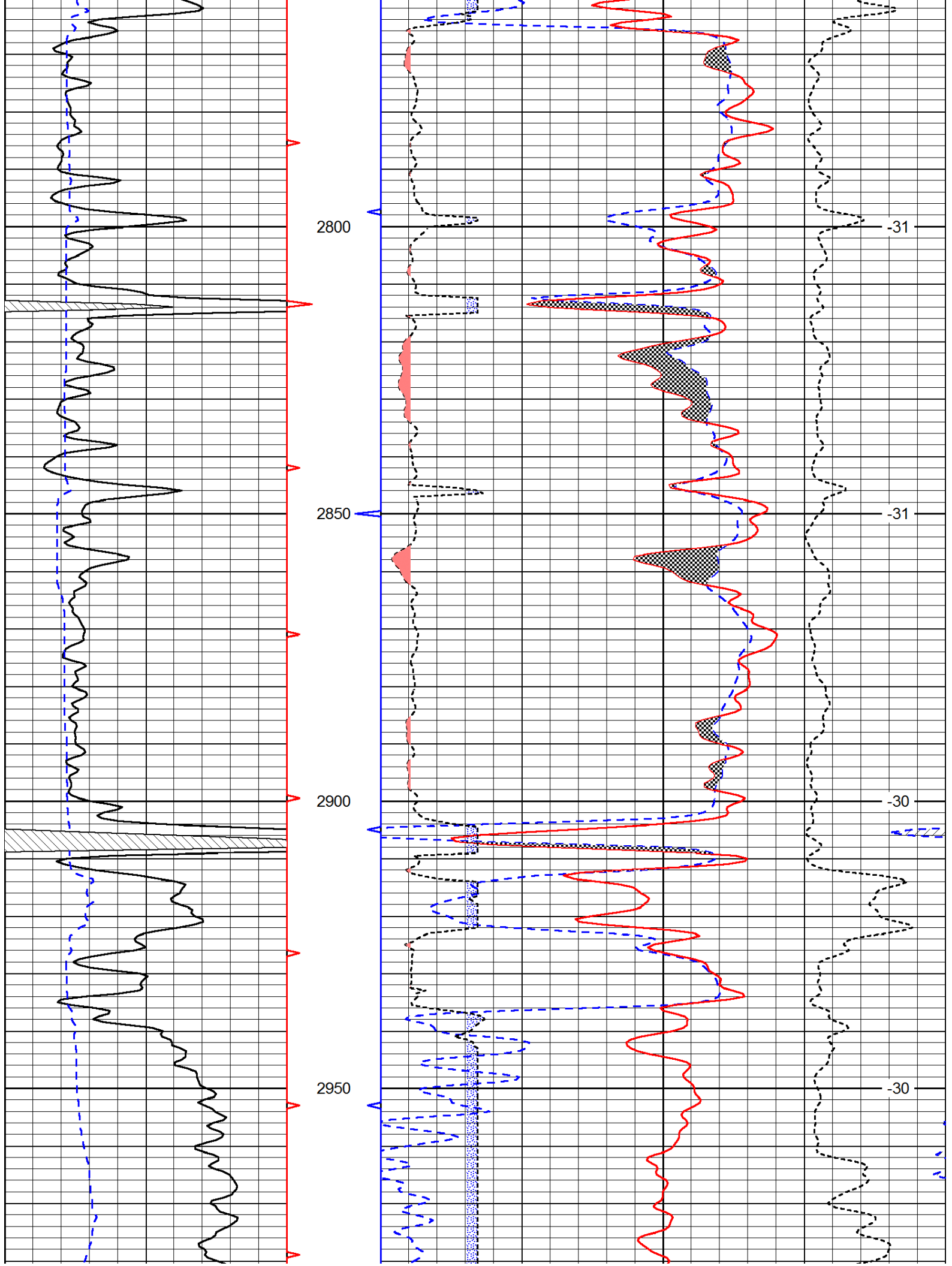


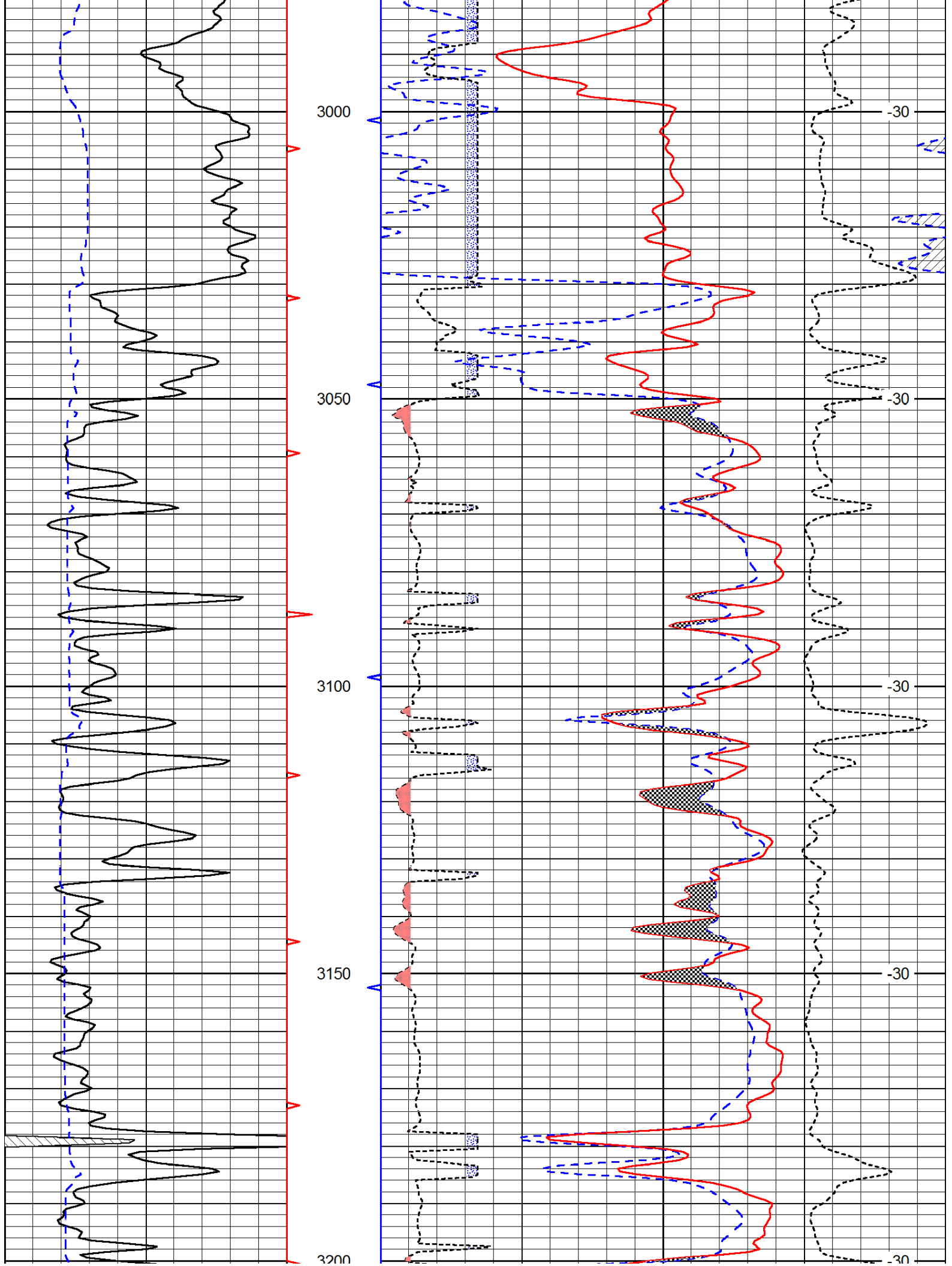


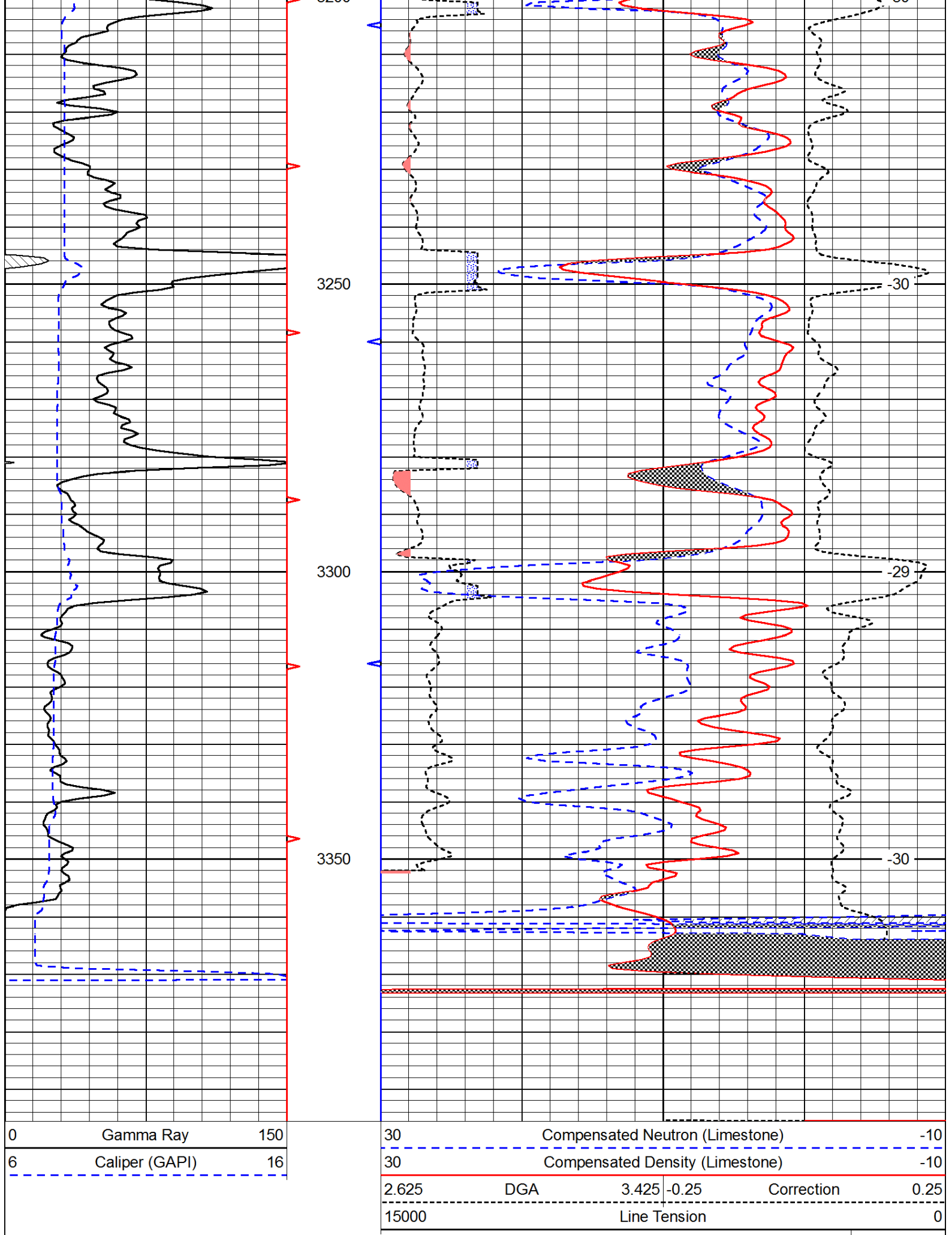
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Dataset Pathname:		dil/kstckml	
Presentation Format:		cndlspec	
Dataset Creation:		Sun Apr 06 07:48:16 2014	
Charted by:		Depth in Feet scaled 1:240	

0	Gamma Ray	150	30	Compensated Neutron (Limestone)	-10
6	Caliper (GAPI)	16	30	Compensated Density (Limestone)	-10
			2.625	DGA	3.425 -0.25
			Correction		0.25
			15000	Line Tension	0









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
