



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-053-21312-00-00

Company Bird Dog Oil, LLC

Well Stoltenberg-Svoboda #1-17

Field Stoltenberg

County Ellsworth State Kansas

Location 1445' FNL / 1305' FEL

Sec: 17 Twp: 16S Rge: 10W

Permanent Datum Ground Level Elevation 1885

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
DIL
MEL/BHCS

Elevation
K.B. 1894
D.F. 1885
G.L. 1885

Date 5/23/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3460

Depth Logger 3460

Bottom Logged Interval 3439

Top Logged Interval 2650

Type Fluid In Hole Chemical

Salinity, PPM CL 9600

Density 9.3

Level Full

Max. Rec. Temp. F 111

Operating Rig Time 4 Hours

Equipment -- Location 17 Hays

Recorded By R. Barnhart

Witnessed By Derek Patterson

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	392	8.625	23#	00	392
Two	7.875	392	TD				

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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

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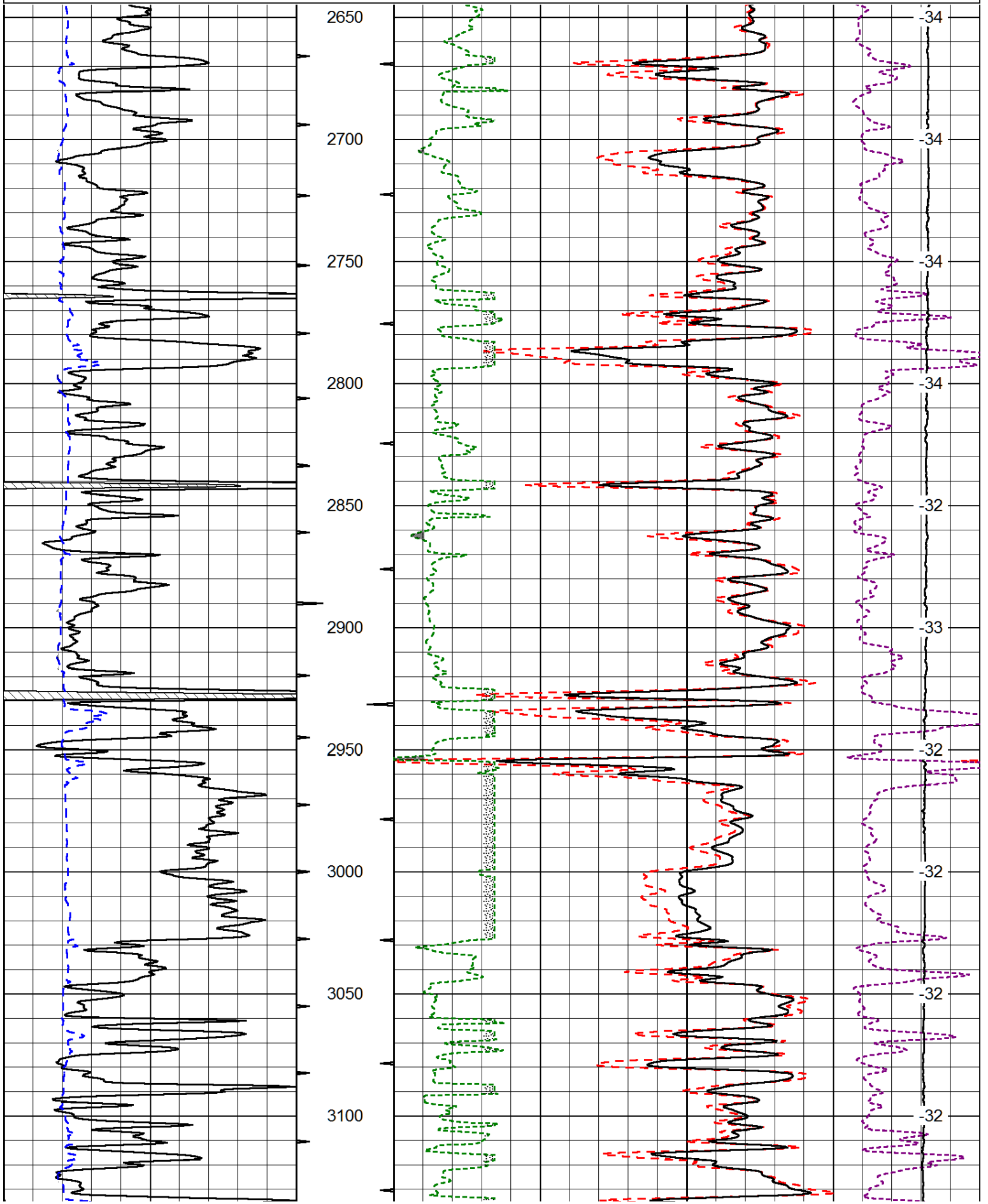
Clafilin, KS:

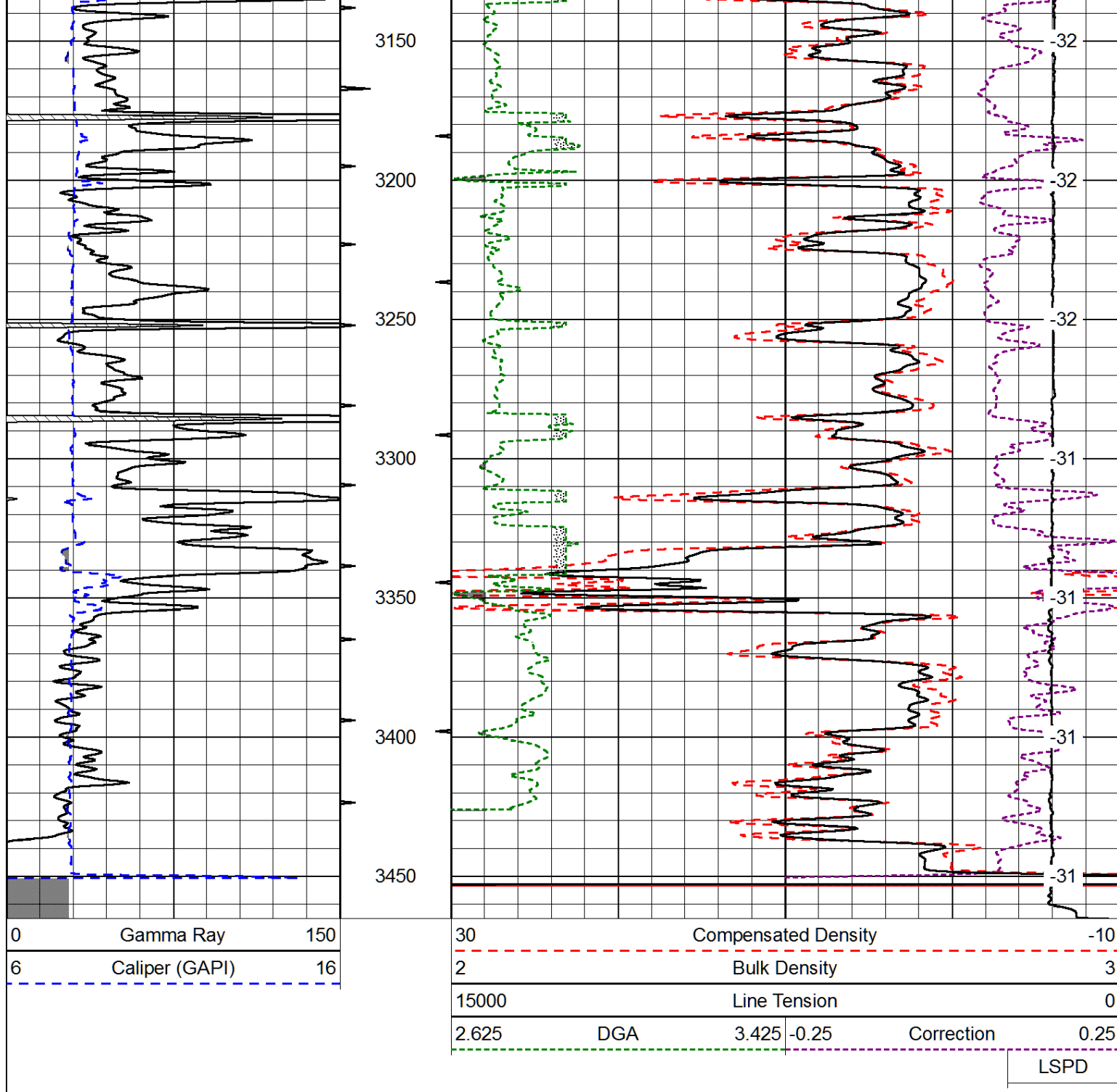
Hwy 4 & 156: 2NE to 160 Rd., 6 1/2N to Q Rd., 2E, 1 1/2N, W into

Database File: birddog_stolteberg-hd.db
Dataset Pathname: dil/brdmain
Presentation Format: cdl
Dataset Creation: Fri May 23 17:56:26 2014
Charted by: Depth in Feet scaled 1:600

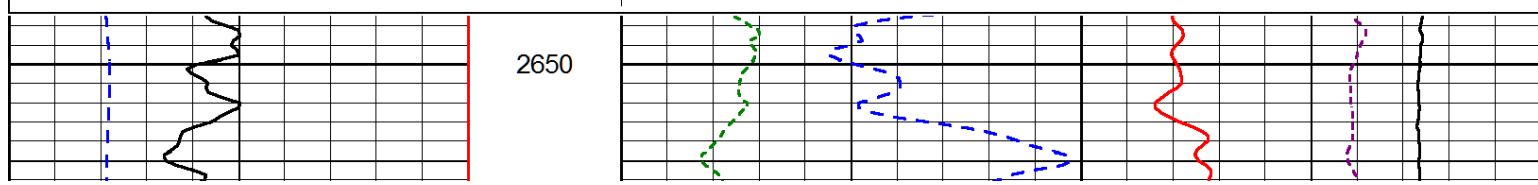
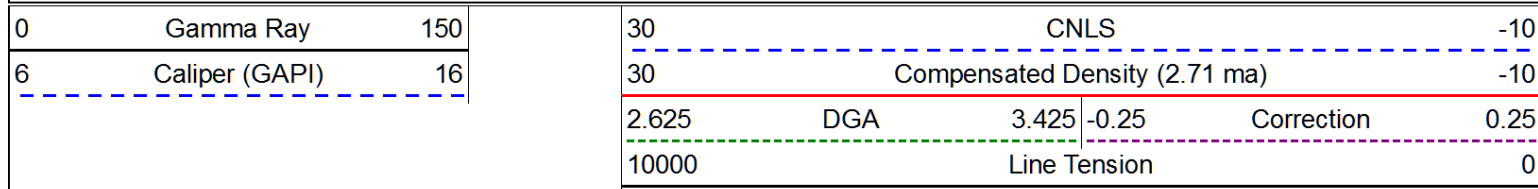
0	Gamma Ray	150
6	Caliper (GAPI)	16

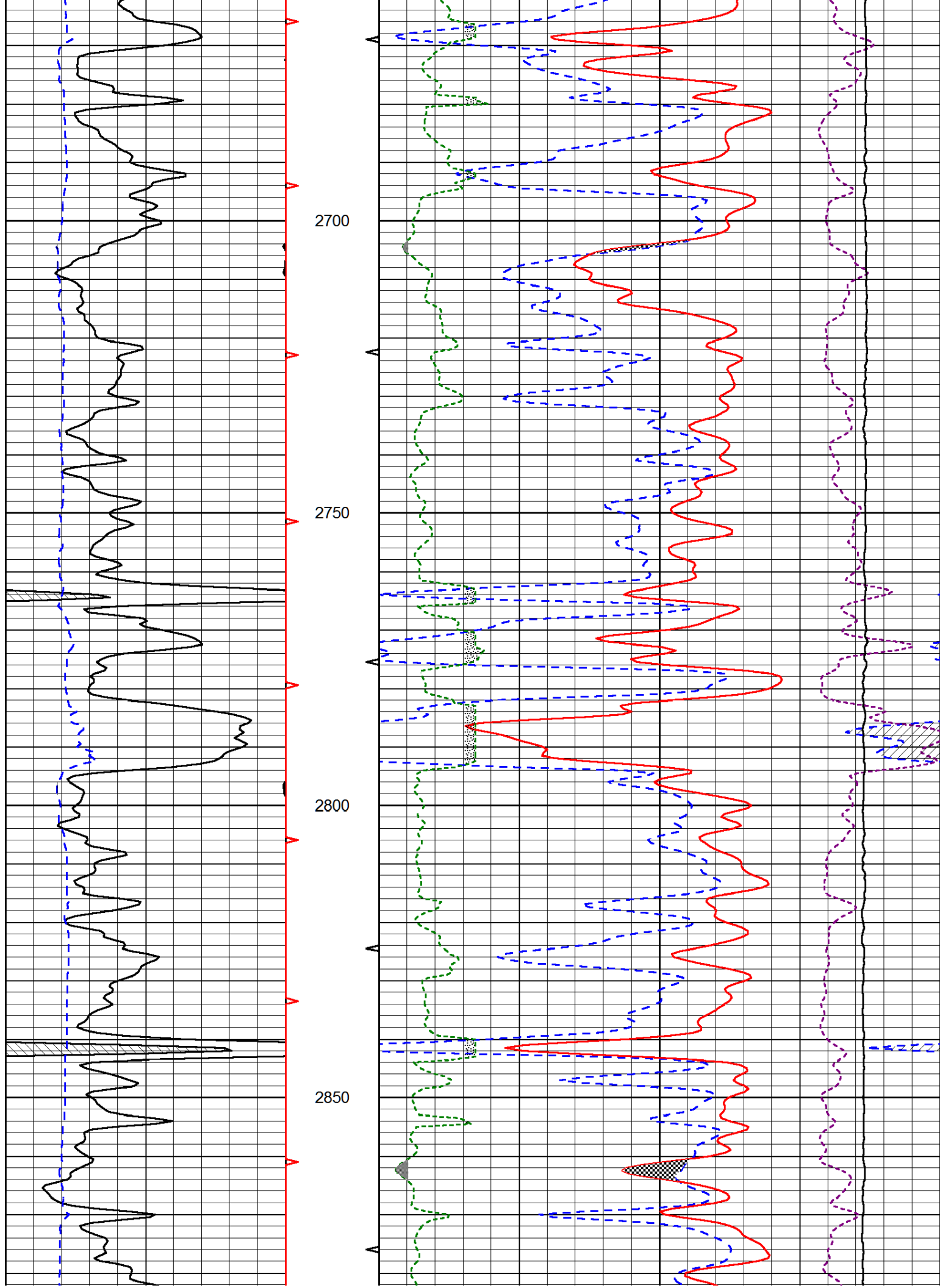
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25
LSPD			

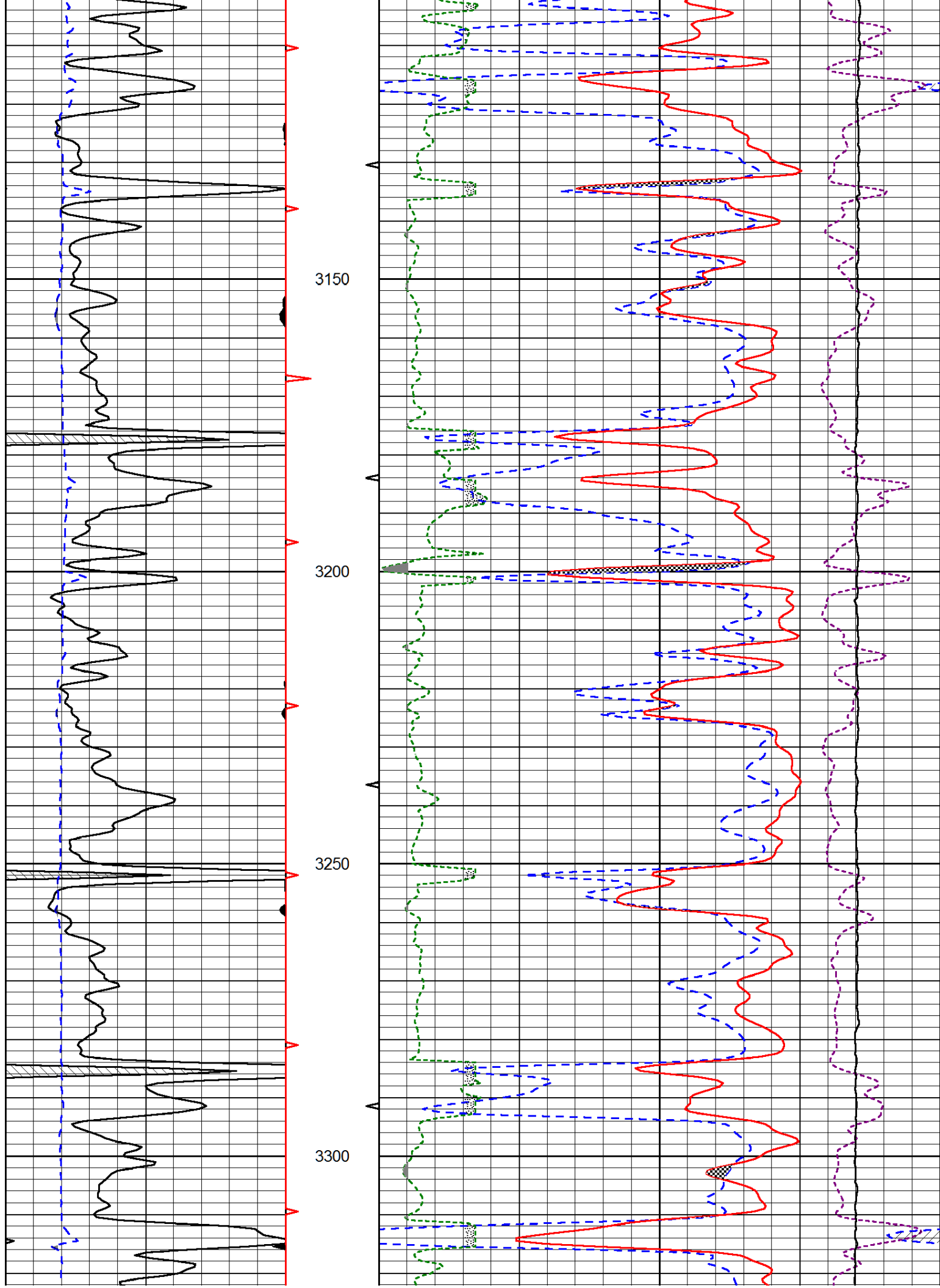


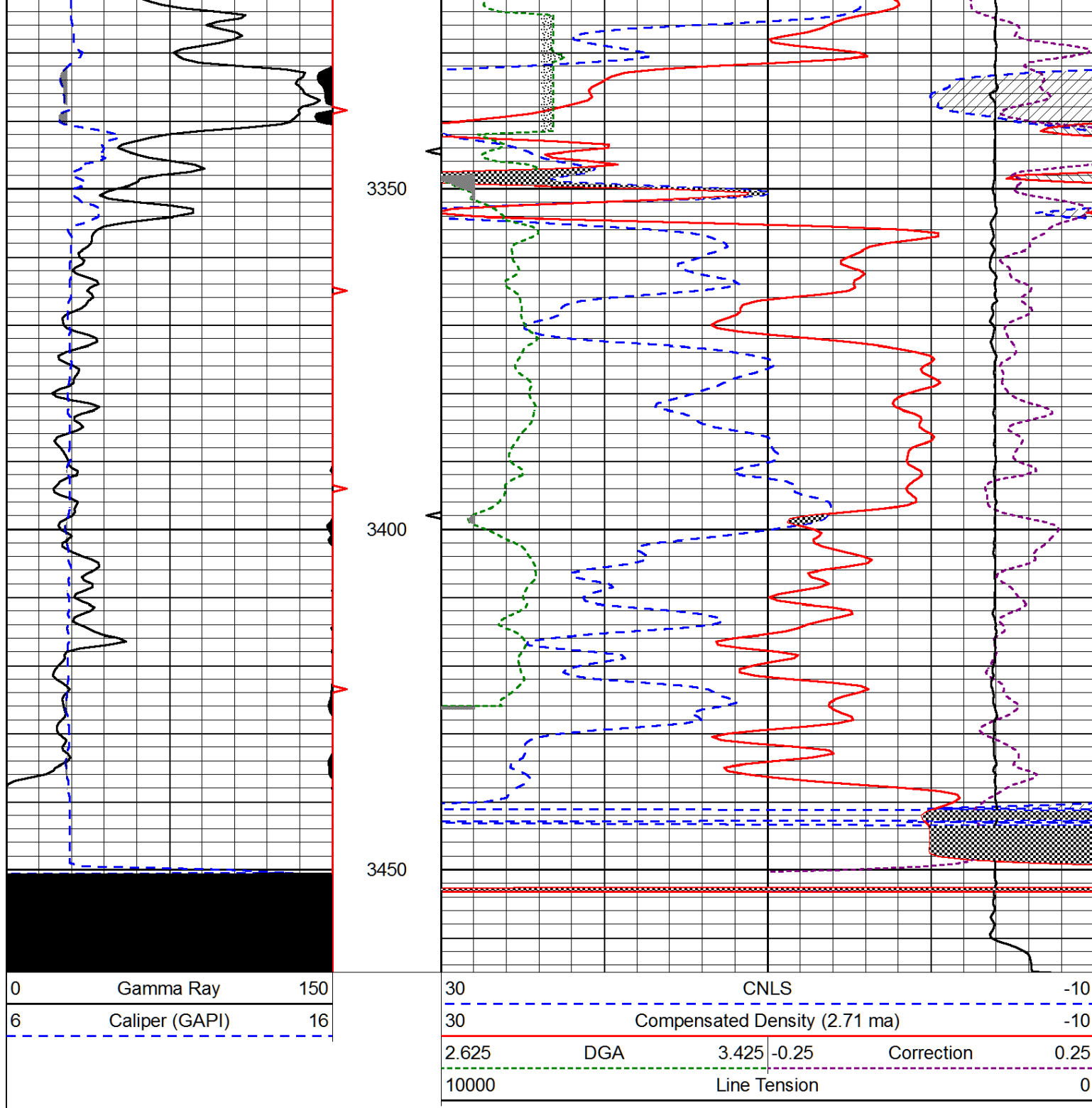


Database File: birddog_stolteberg-hd.db
 Dataset Pathname: dil/brdmain
 Presentation Format: cndlspec
 Dataset Creation: Fri May 23 17:56:26 2014
 Charted by: Depth in Feet scaled 1:240











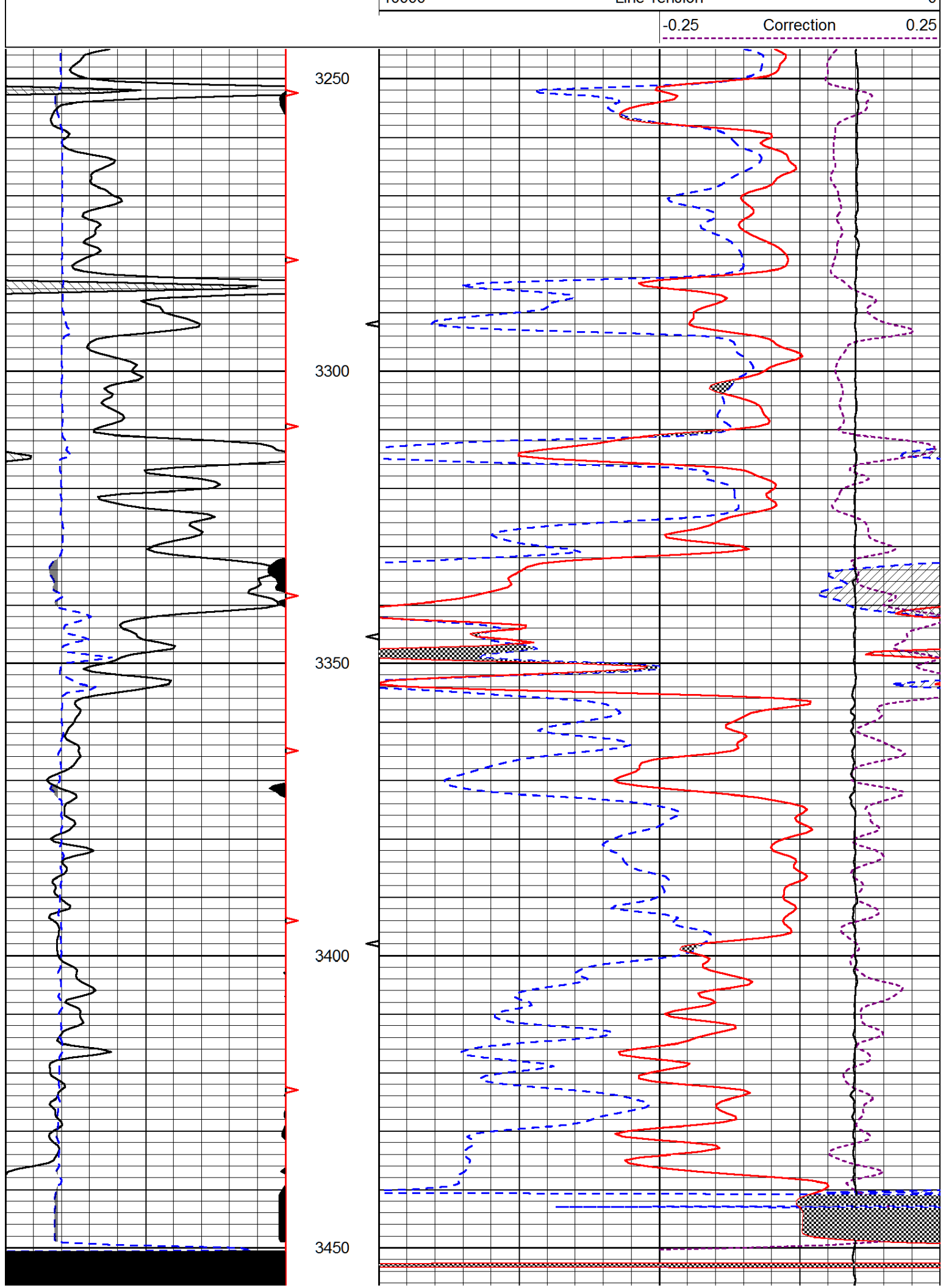
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Repeat Section

Database File: birddog_stolteberg-hd.db
 Dataset Pathname: dil/brdrpt
 Presentation Format: cndlspec
 Dataset Creation: Fri May 23 17:03:15 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Caliper (GAPI)	16

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



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



Dolomite Matrix (2.83)

Database File: birddog_stolteberg-hd.db
Dataset Pathname: dil/brd283
Presentation Format: cndldol
Dataset Creation: Fri May 23 17:03:15 2014
Charted by: Depth in Feet scaled 1:240

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

