



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-135-25402-00-00

Company **American Warrior, Inc.**

Well **Wittman #11**

Field **Schaben**

County

Ness

State **Kansas**

Location

850' FSL & 1380' FWL

Other Services
DIL

Sec: **19**

Twp: **19S**

Rge: **21W**

Elevation

Permanent Datum Ground Level Elevation 2267
Log Measured From Kelly Bushing 6 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2273
D.F. 2267
G.L. 2267

Date 7/31/2012

Run Number One

Type Log CNL / CDL

Depth Driller 4391

Depth Logger 4389

Bottom Logged Interval 4368

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 5700

Density 9.4

Level Full

Max. Rec. Temp. F 122

Operating Rig Time 4 Hours

Equipment -- Location 91 Hays

Recorded By D. Schmidt

Witnessed By Jason Alm

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	223	8.625	23#	00	223
Two	7.875	223	TD				

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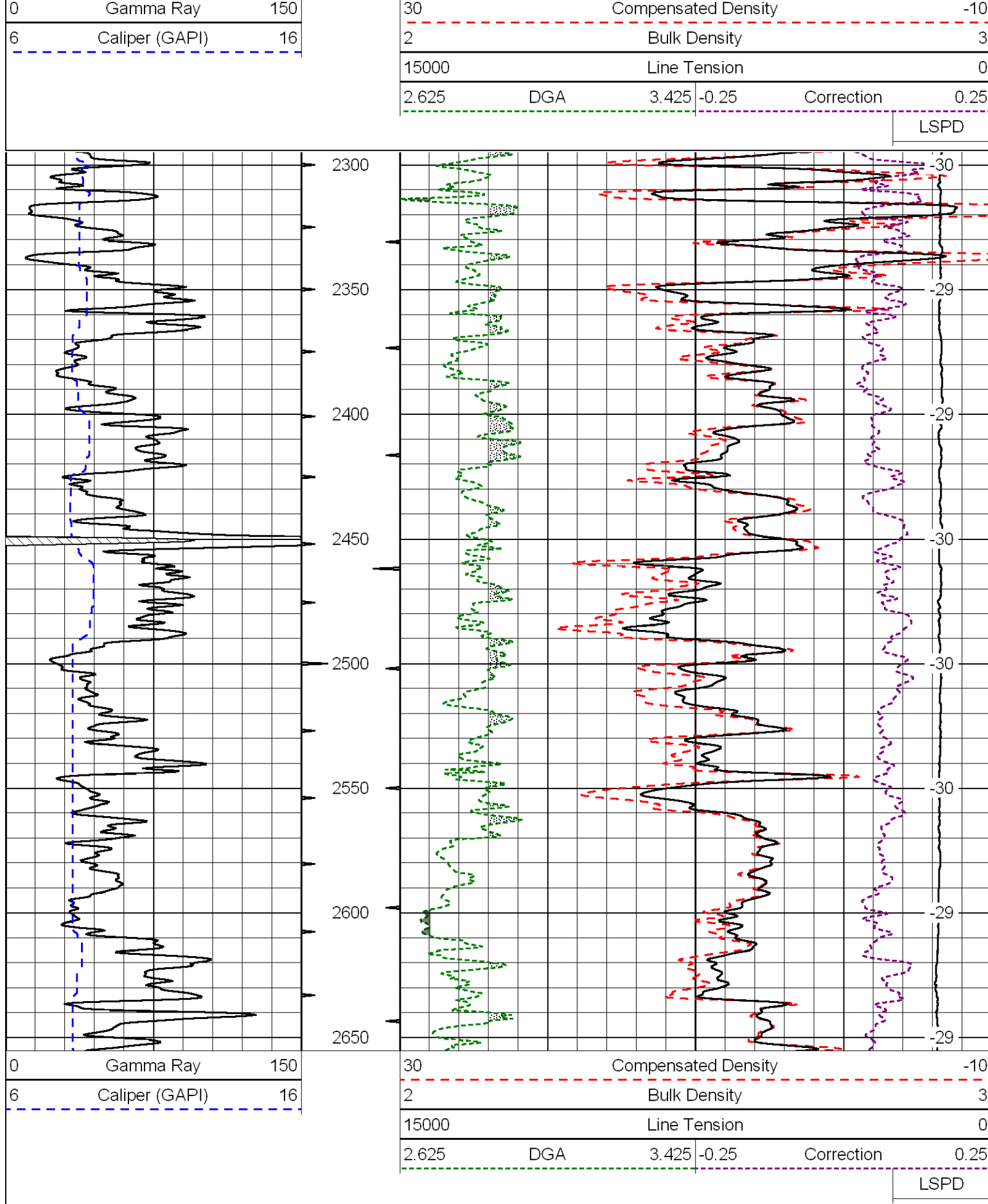
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

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

Bazine (West Edge),
5 South to 80 Rd, 1/4 East,
North into

Database File: amwar_073112hd.db
Dataset Pathname: dil/awstack
Presentation Format: cdl
Dataset Creation: Tue Jul 31 09:25:21 2012
Charted by: Depth in Feet scaled 1:600

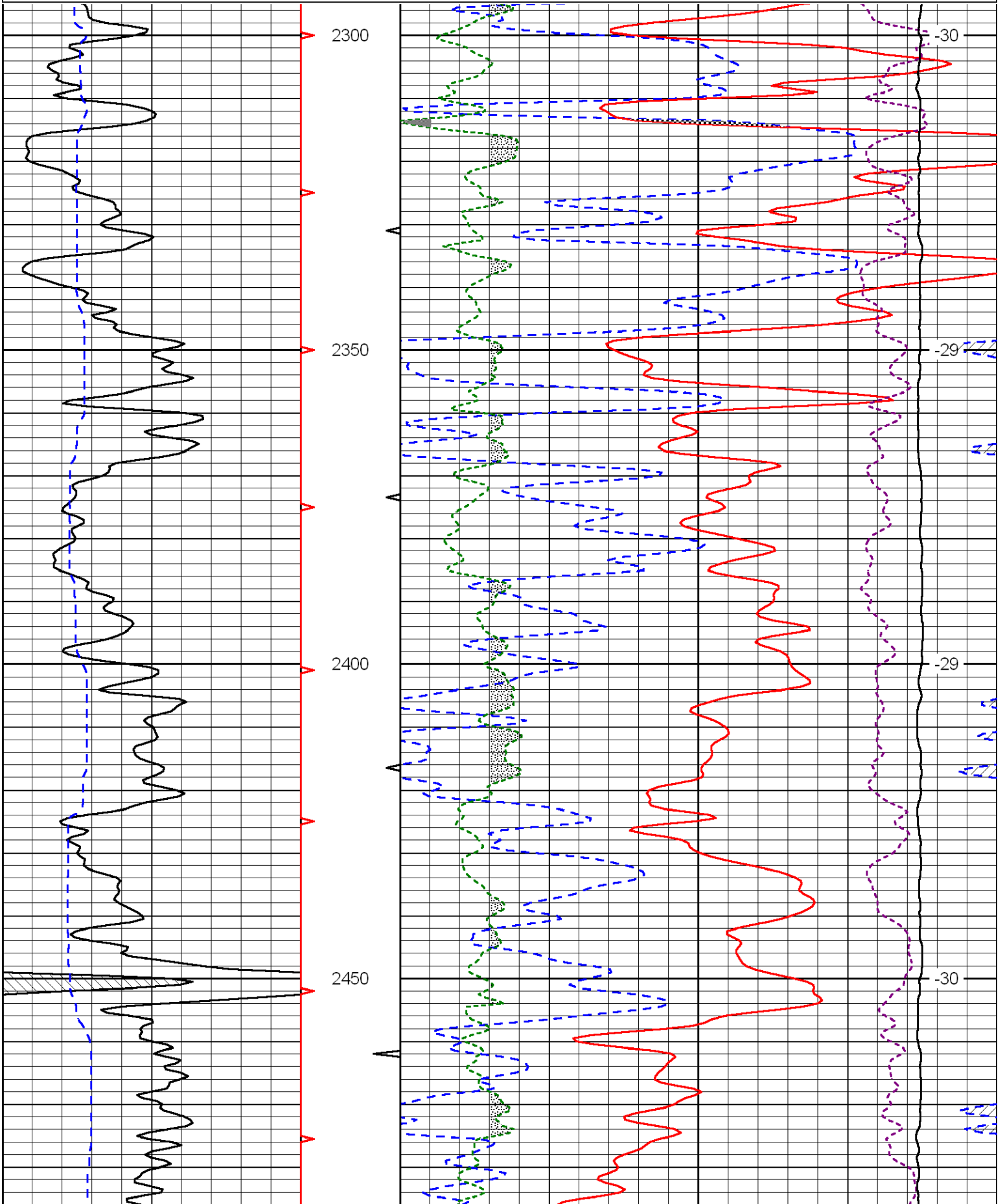


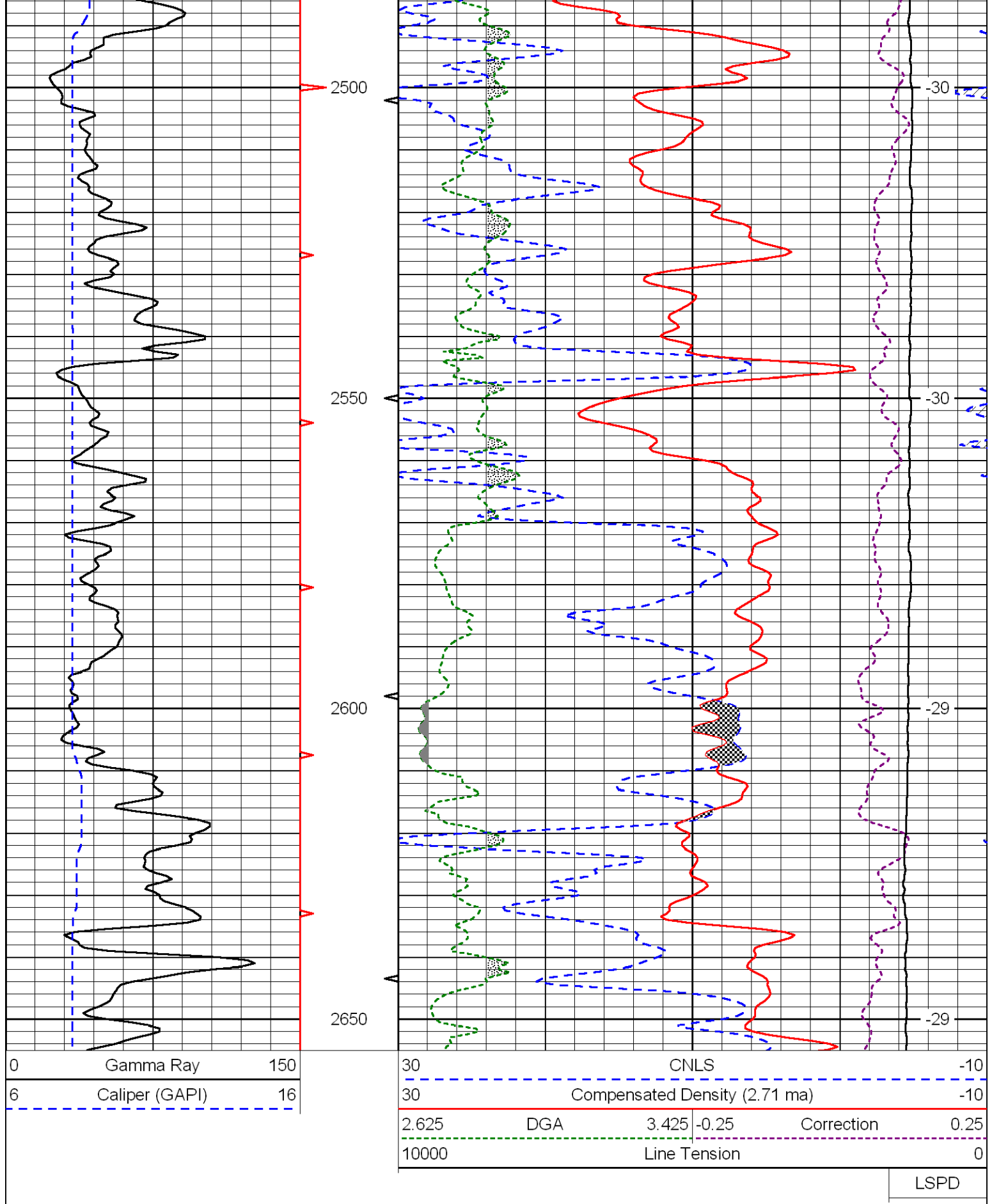
Database File: amwar_073112hd.db
Dataset Pathname: dil/awstack
Presentation Format: cndlspec
Dataset Creation: Tue Jul 31 09:25:21 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS				-10
30	Compensated Density (2.71 ma)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension				0

LSPD

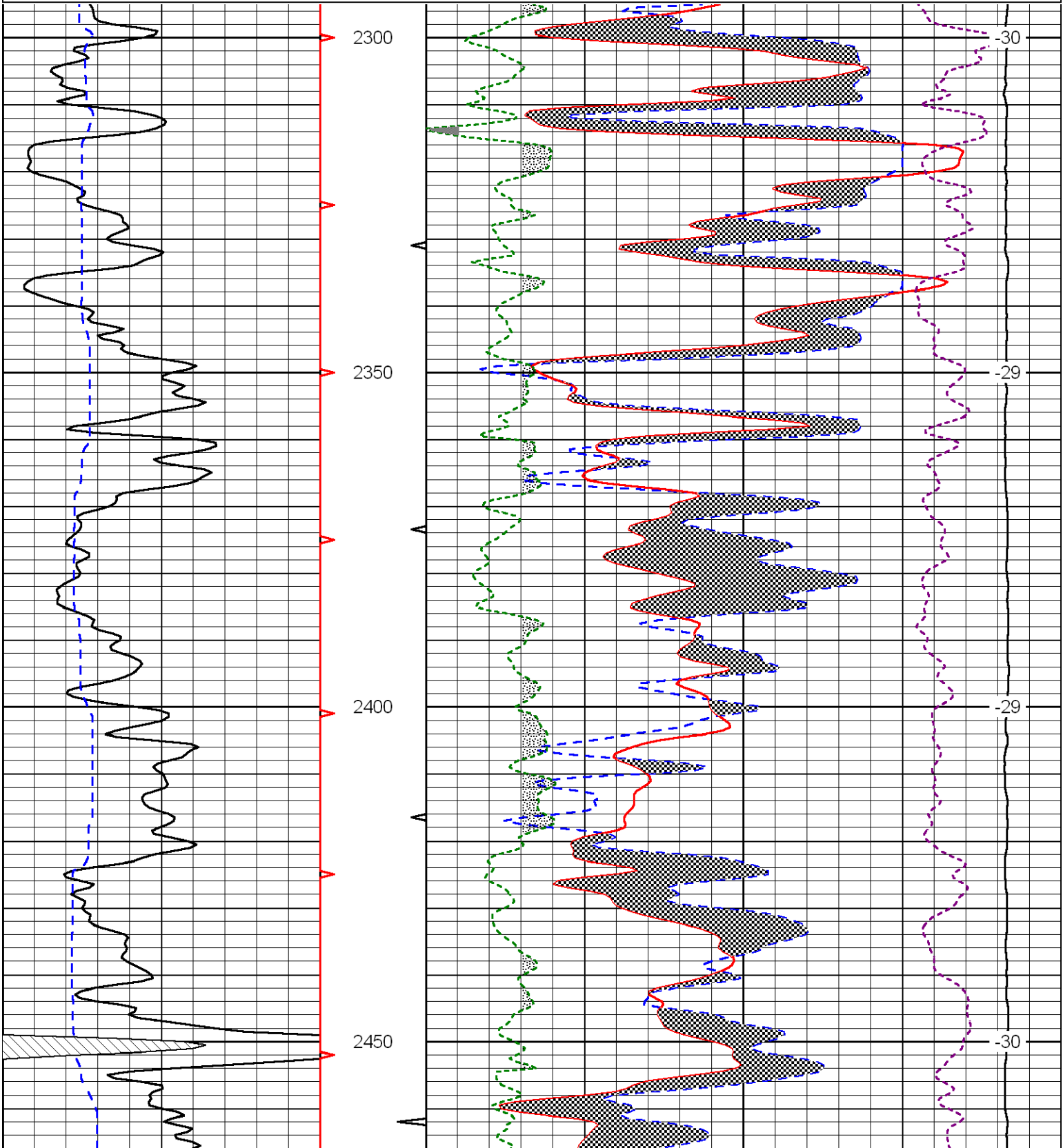


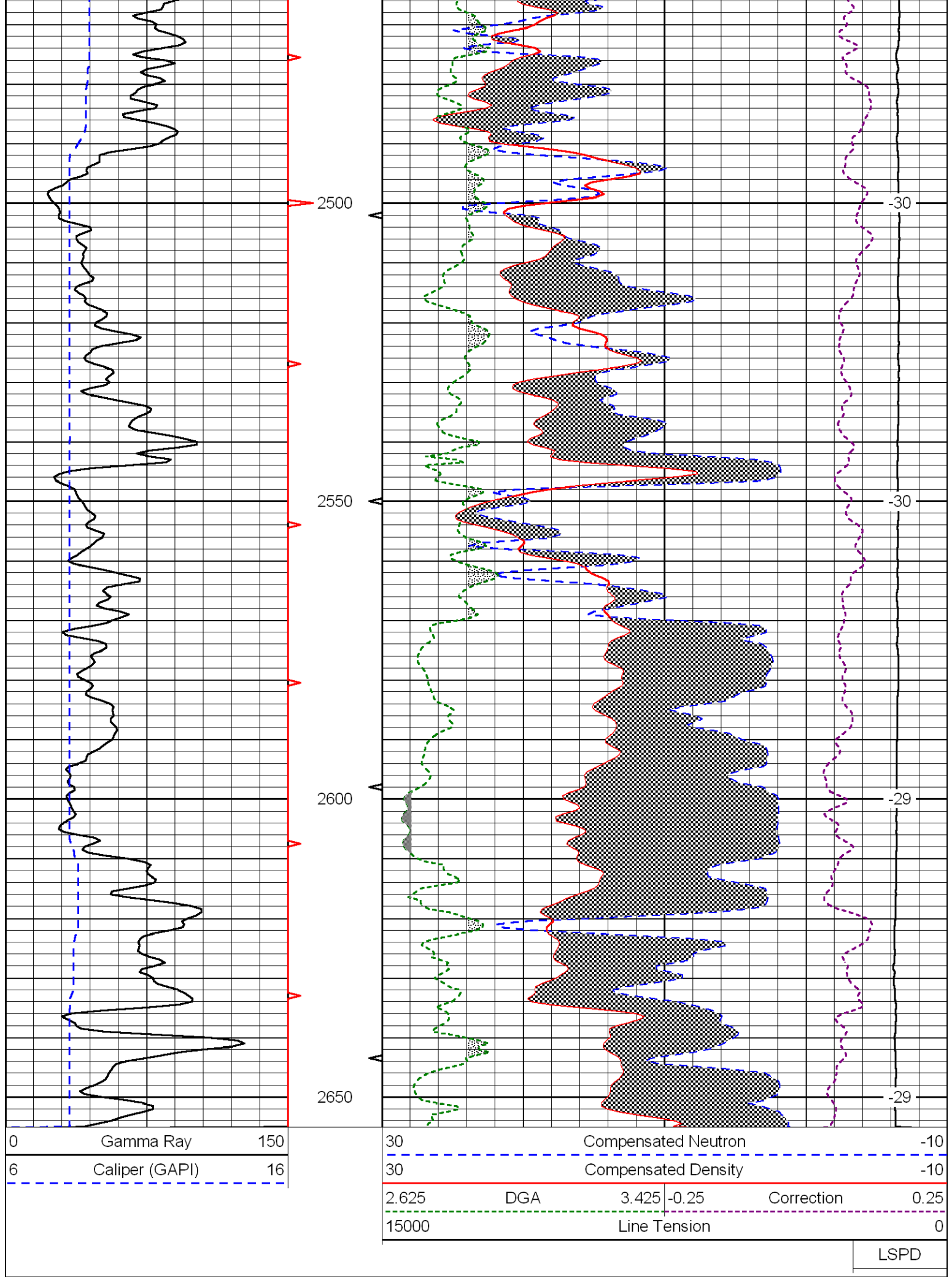


Database File: amwar_073112hd.db
Dataset Pathname: dil/aw287
Presentation Format: cndldol
Dataset Creation: Tue Jul 31 09:48:38 2012
Charted by: Depth in Feet scaled 1:240

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

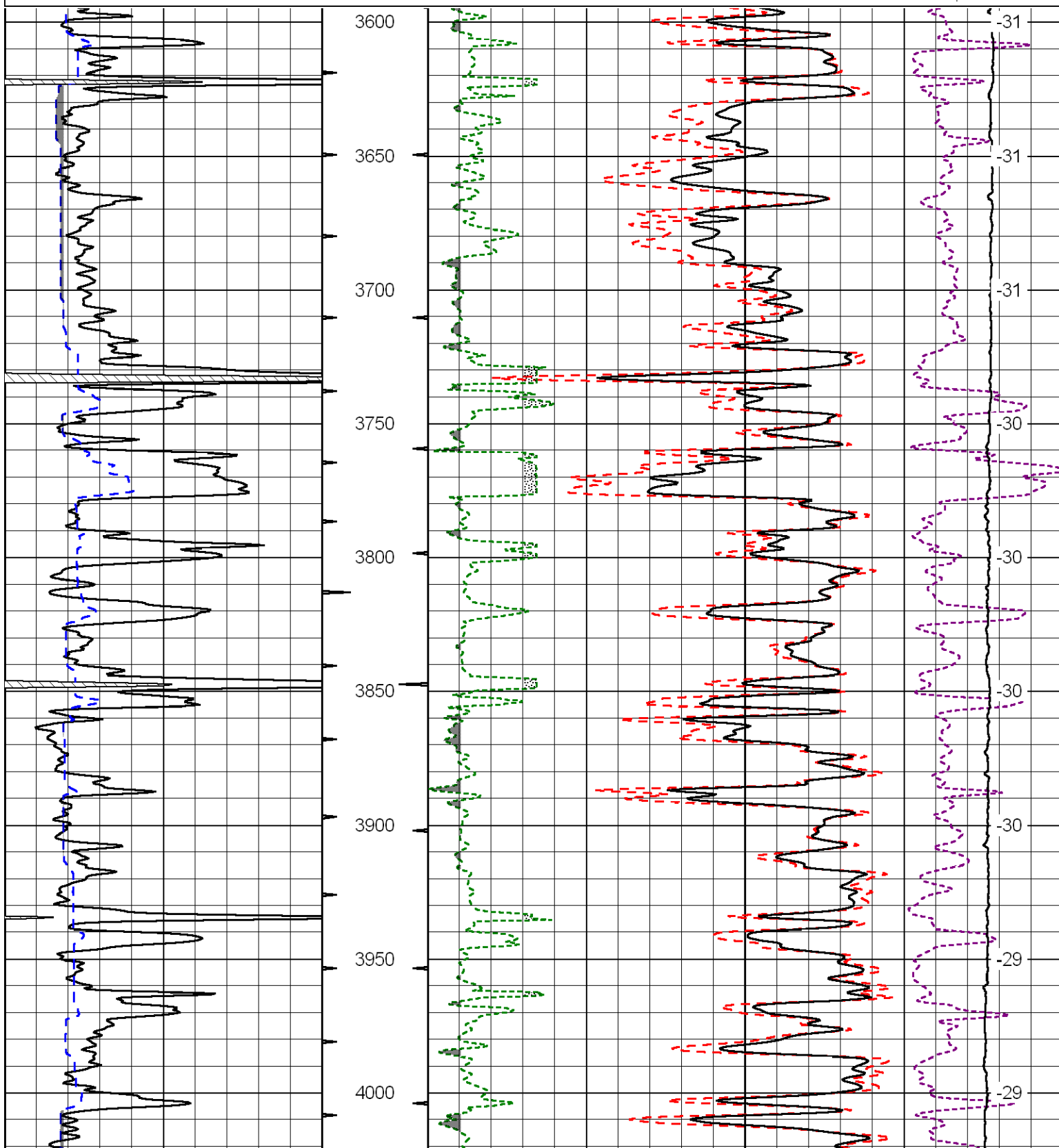
LSPD

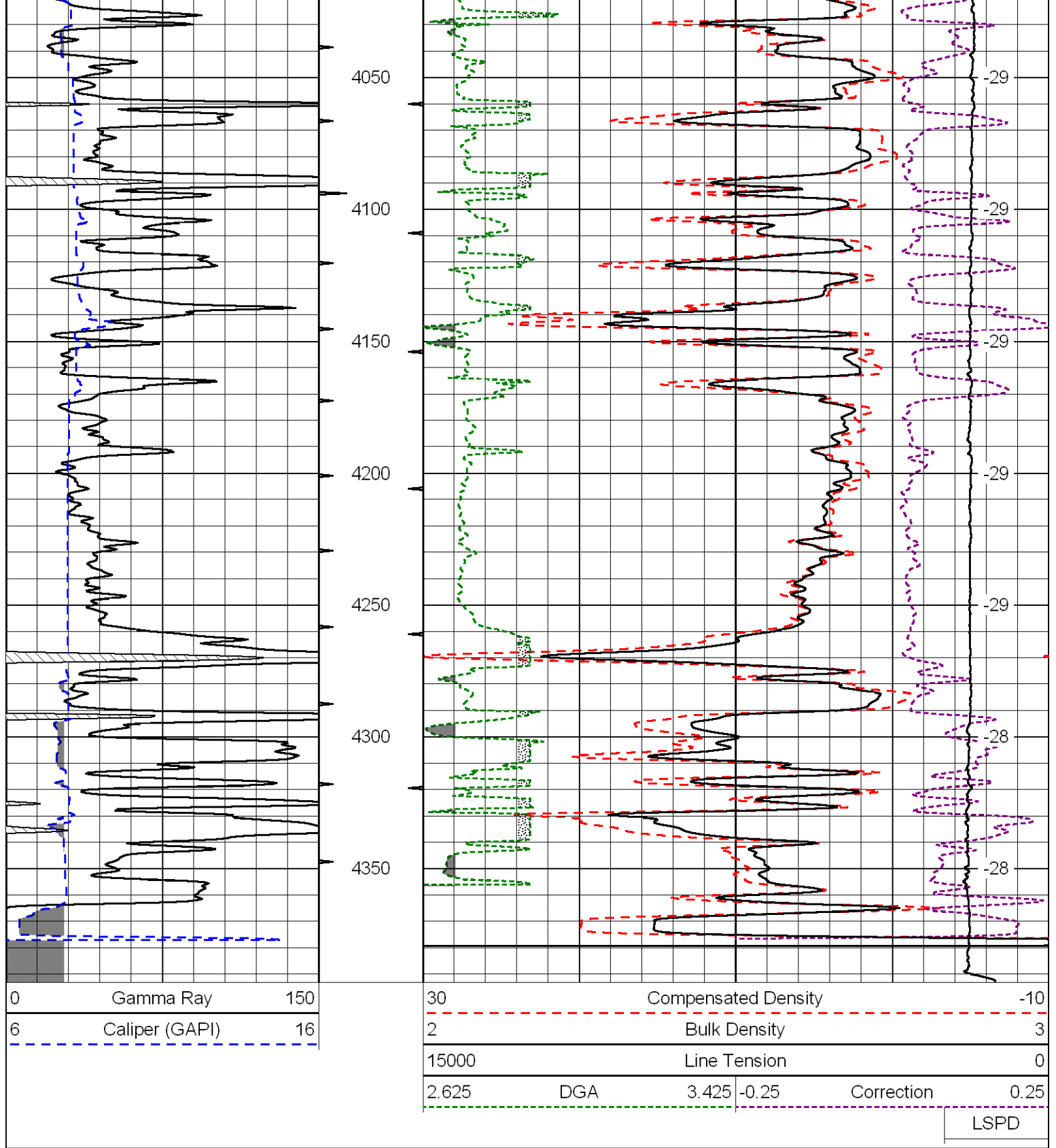




Database File: amwar_073112hd.db
Dataset Pathname: dil/awstack
Presentation Format: cdl
Dataset Creation: Tue Jul 31 09:25:21 2012
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150	30	Compensated Density	-10
6	Caliper (GAPI)	16	2	Bulk Density	3
			15000	Line Tension	0
			2.625	DGA	3.425
			-0.25	Correction	0.25
			LSPD		





Database File: amwar_073112hd.db
 Dataset Pathname: dil/awstack
 Presentation Format: cndlspec
 Dataset Creation: Tue Jul 31 09:25:21 2012
 Charted by: Depth in Feet scaled 1:240

