



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

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

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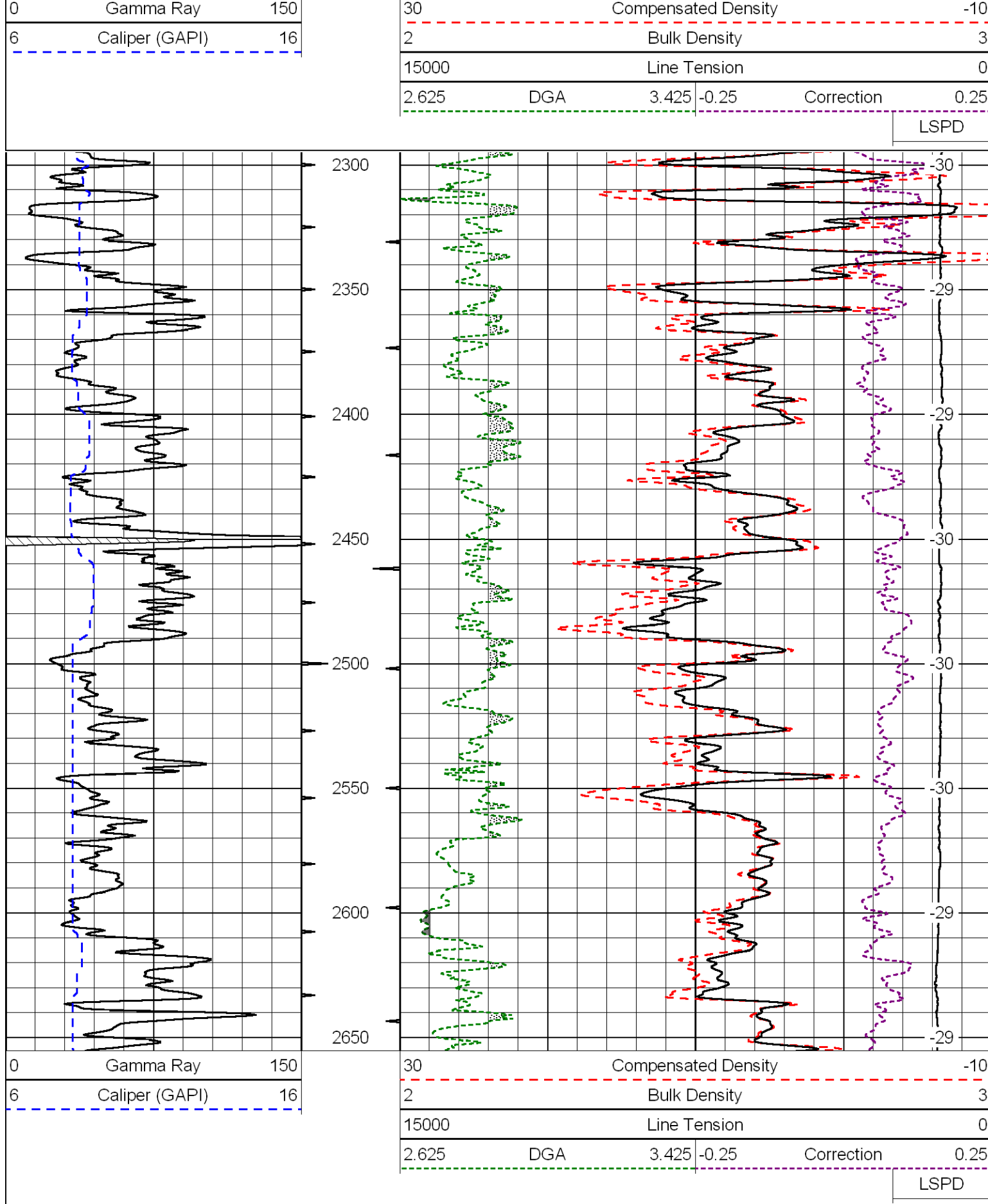
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

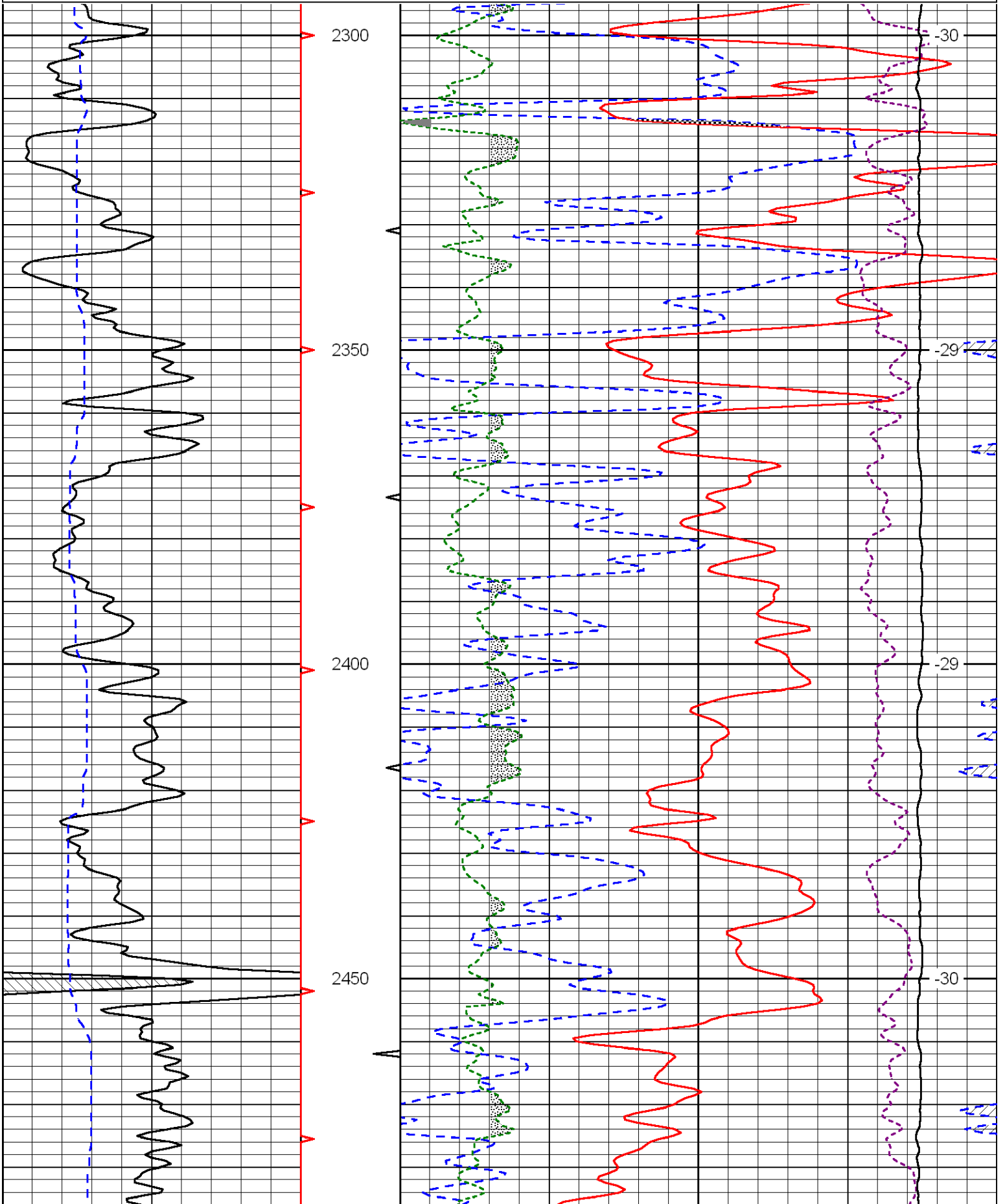


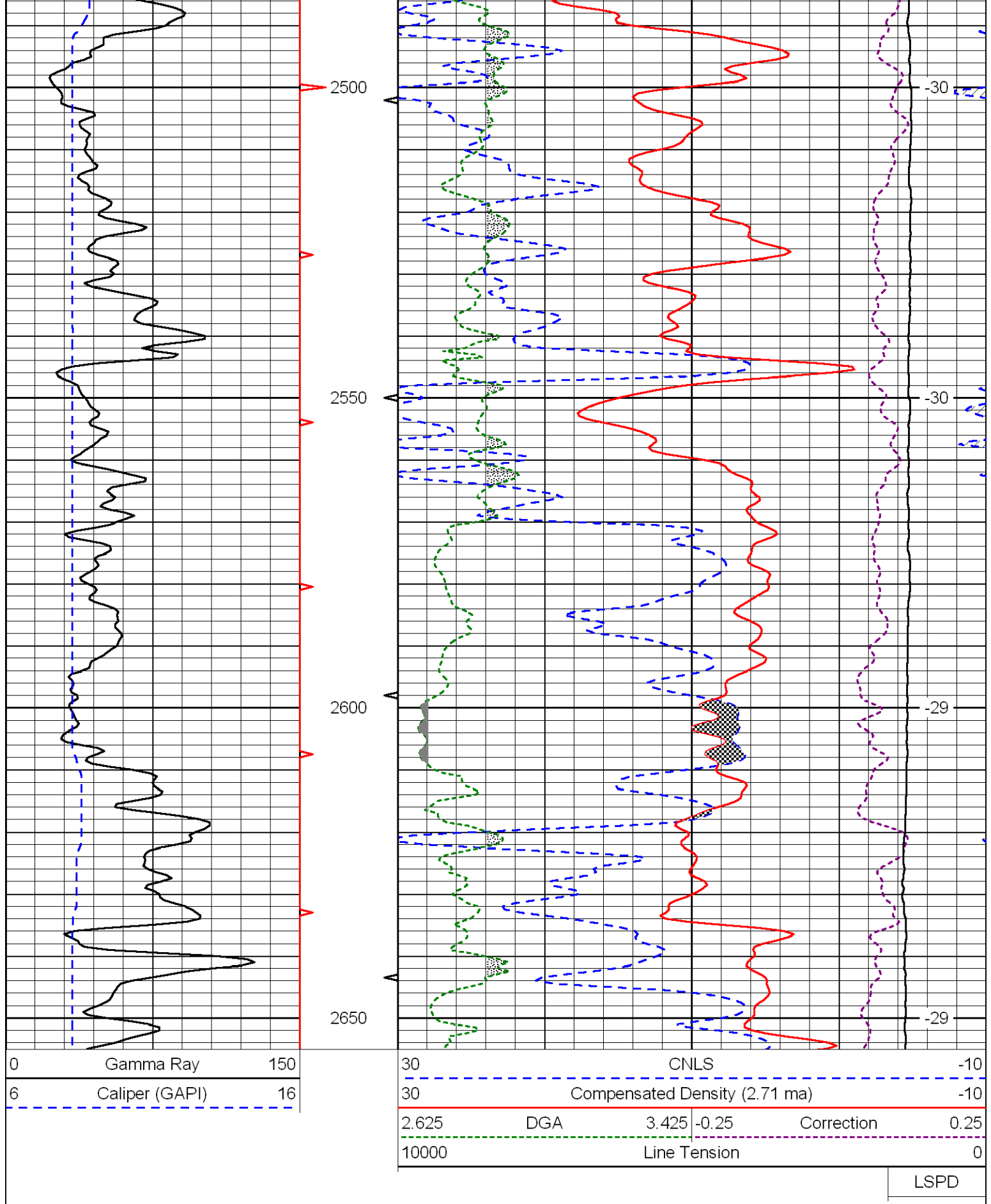
Database File: amwar_073112hd.db
 Dataset Pathname: dil/awstack
 Presentation Format: cndlspec
 Dataset Creation: Tue Jul 31 09:25:21 2012
 Charted by: Depth in Feet scaled 1:240

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

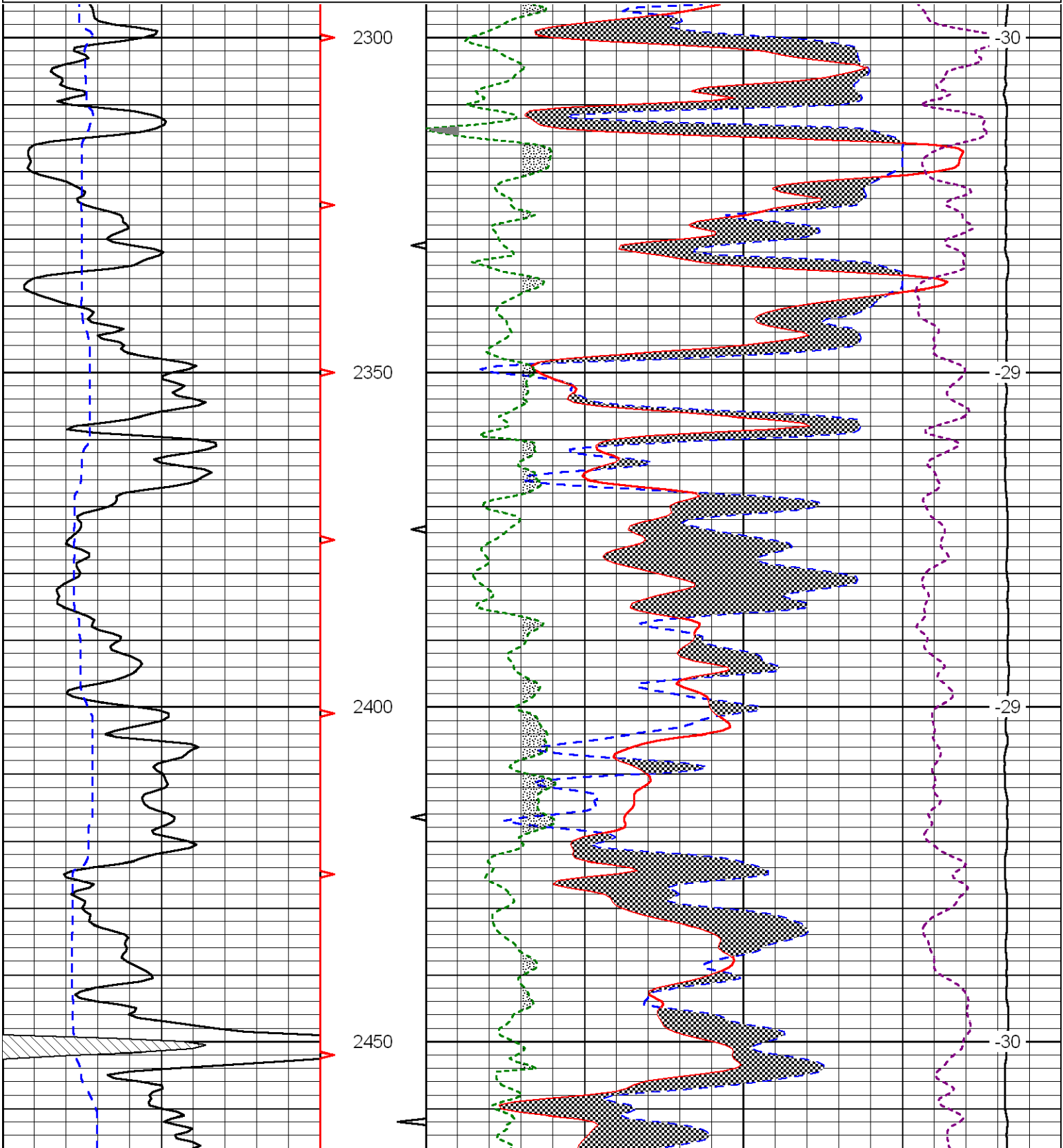


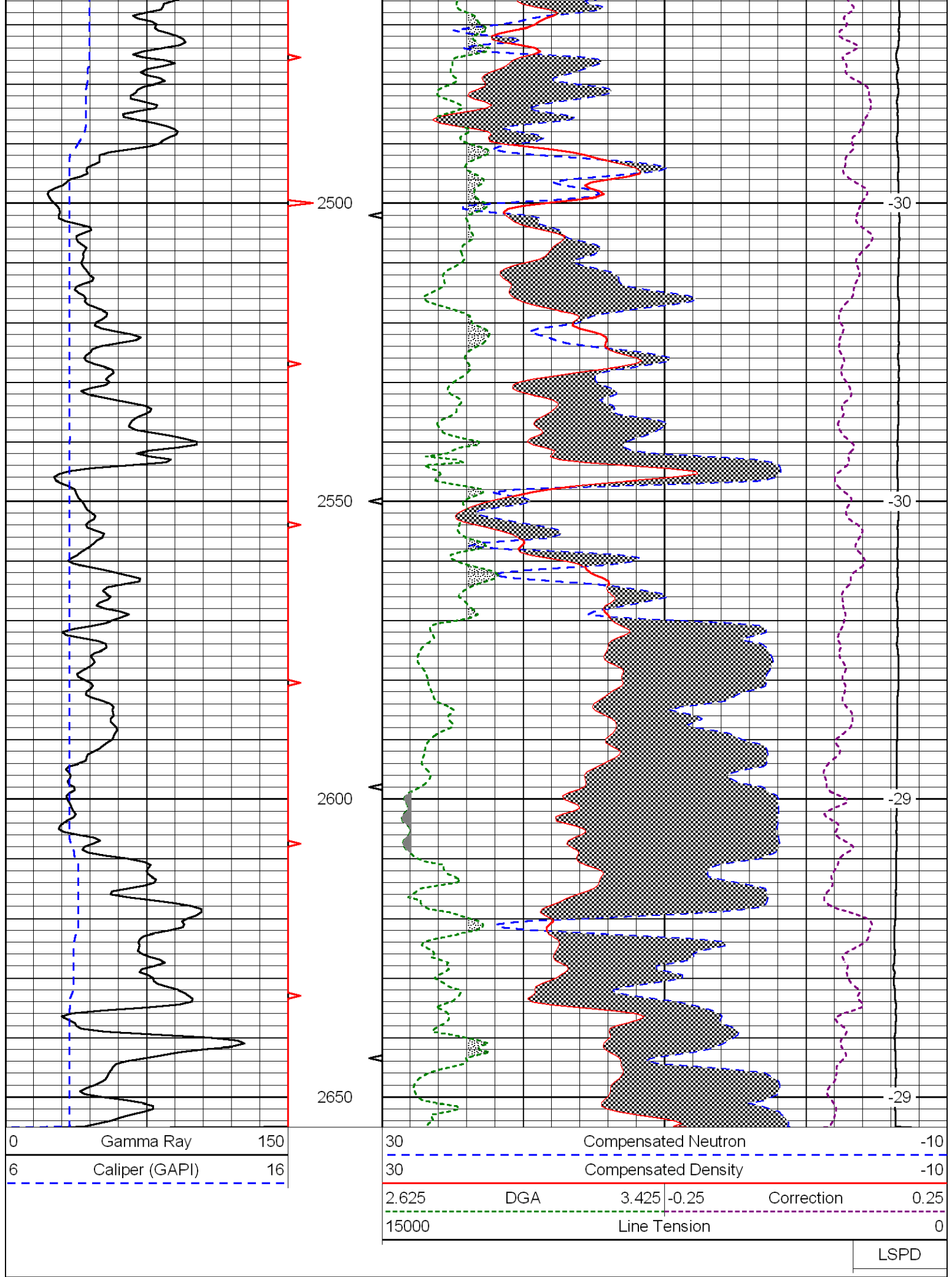


Database File: amwar_073112hd.db
Dataset Pathname: dil/aw287
Presentation Format: cndldol
Dataset Creation: Tue Jul 31 09:48:38 2012
Charted by: Depth in Feet scaled 1:240

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

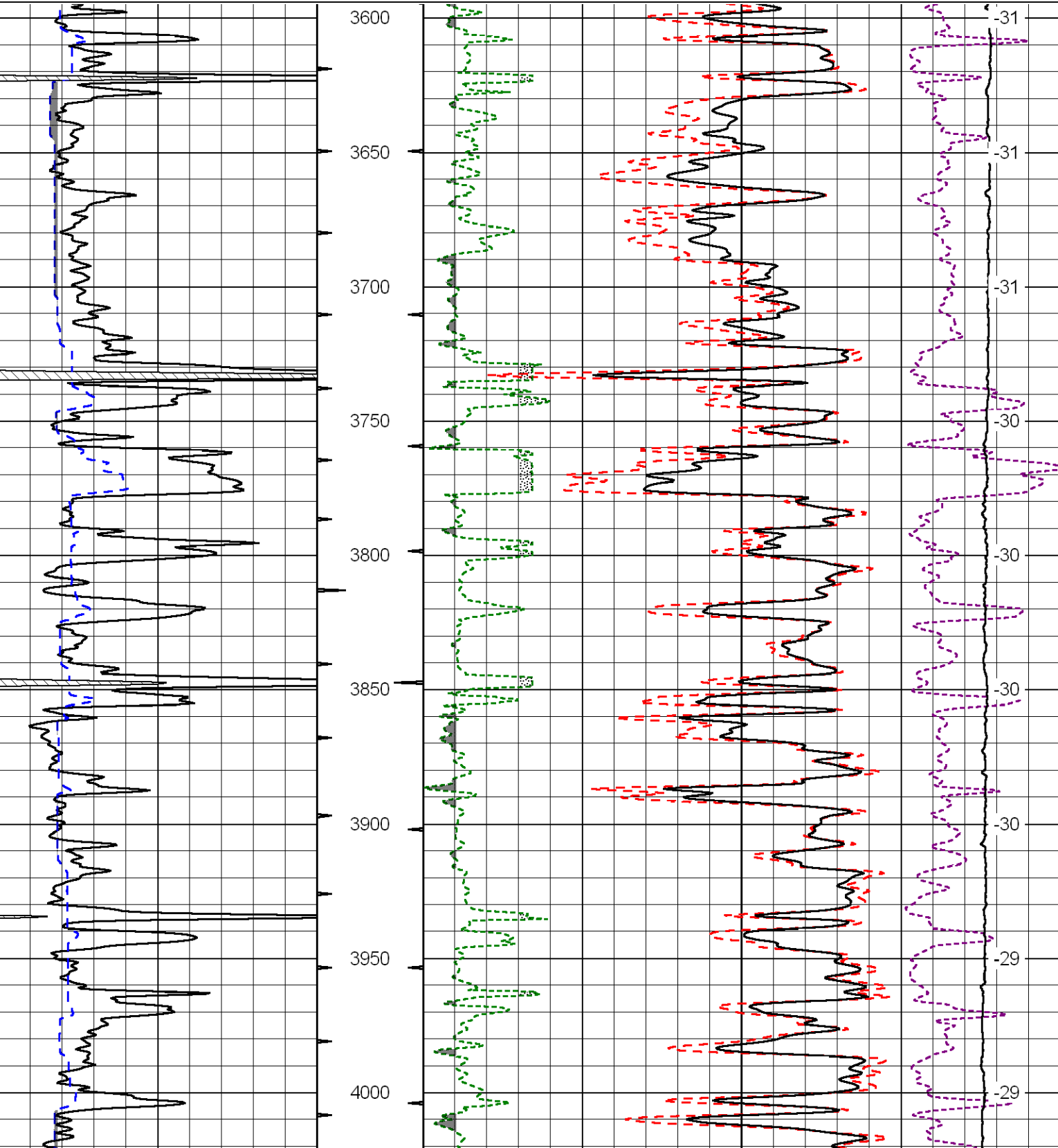
LSPD

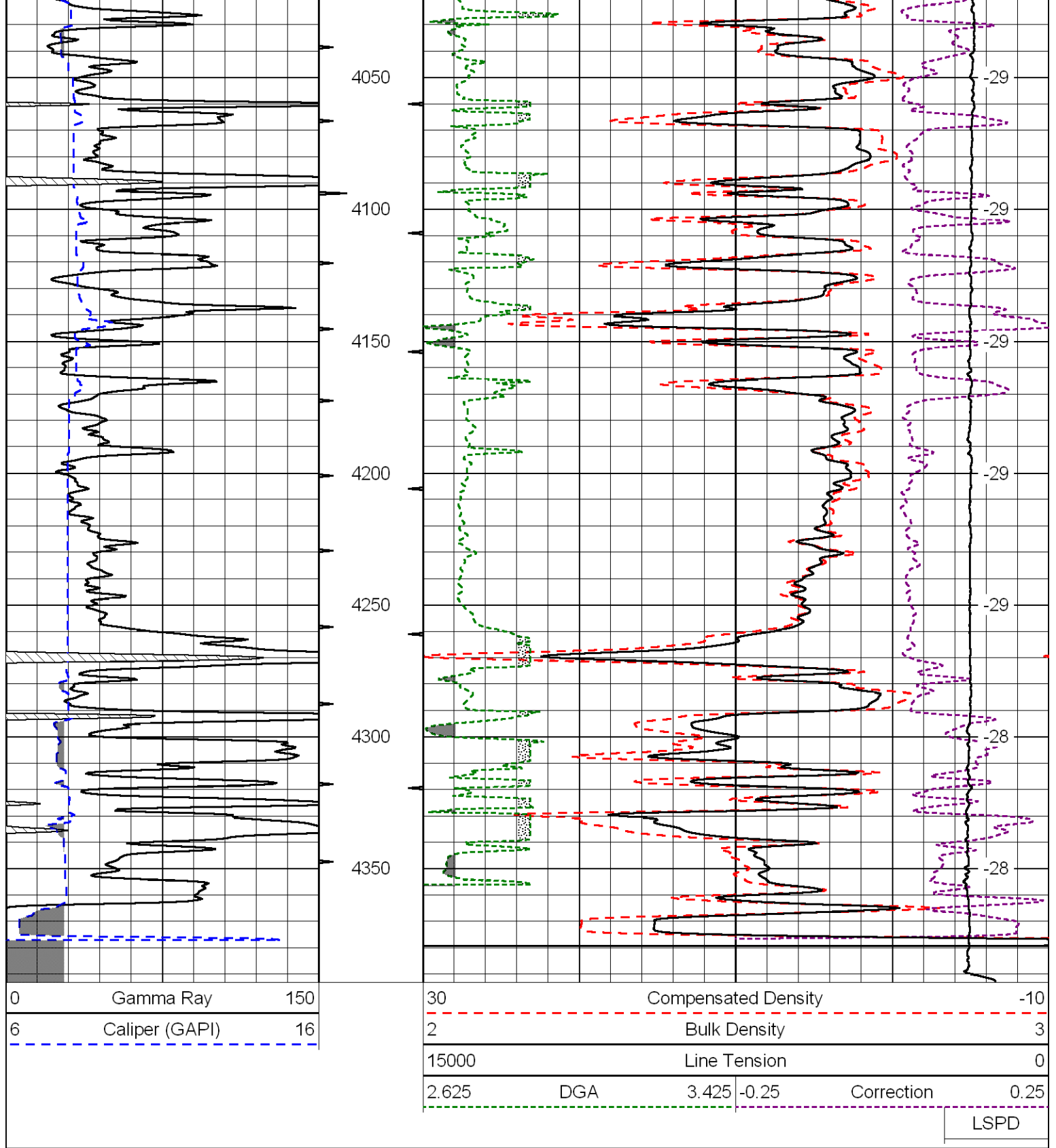




Database File: amwar_073112hd.db
Dataset Pathname: dil/awstack
Presentation Format: cdl
Dataset Creation: Tue Jul 31 09:25:21 2012
Charted by: Depth in Feet scaled 1:600

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

