



Pioneer Energy Services

## Dual Compensated Porosity Log

API No.

15-193-20,938-00-00

Company **Val Energy, Inc.**

Well **Otto No. 1-26**

Field **Thomas**

County **Thomas** State **Kansas**

Location **1063' FNL & 1513' FWL**

Sec: **21** Twp: **8s** Rge: **35w**

Other Services  
DIL  
MEL/BHCS

Elevation

K.B. 3316  
D.F. G.I.L. 3306

Permanent Datum Ground Level Elevation 3306

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date 12/3/2014

Run Number One

Type Log CNL / CDL

Depth Driller 4917

Depth Logger 4923

Bottom Logged Interval 4902

Top Logged Interval 3500

Type Fluid In Hole Chemical

Salinity, PPM CL 7000

Density 9.4

Level Full

Max. Rec. Temp. F 125

Operating Rig Time 5 Hours

Equipment -- Location 108 Hays

Recorded By D. Fischer

Witnessed By John Goldsmith

**Borehole Record**

**Casing Record**

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	256	8.625	23#	00	256
Two	7.875	256	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**

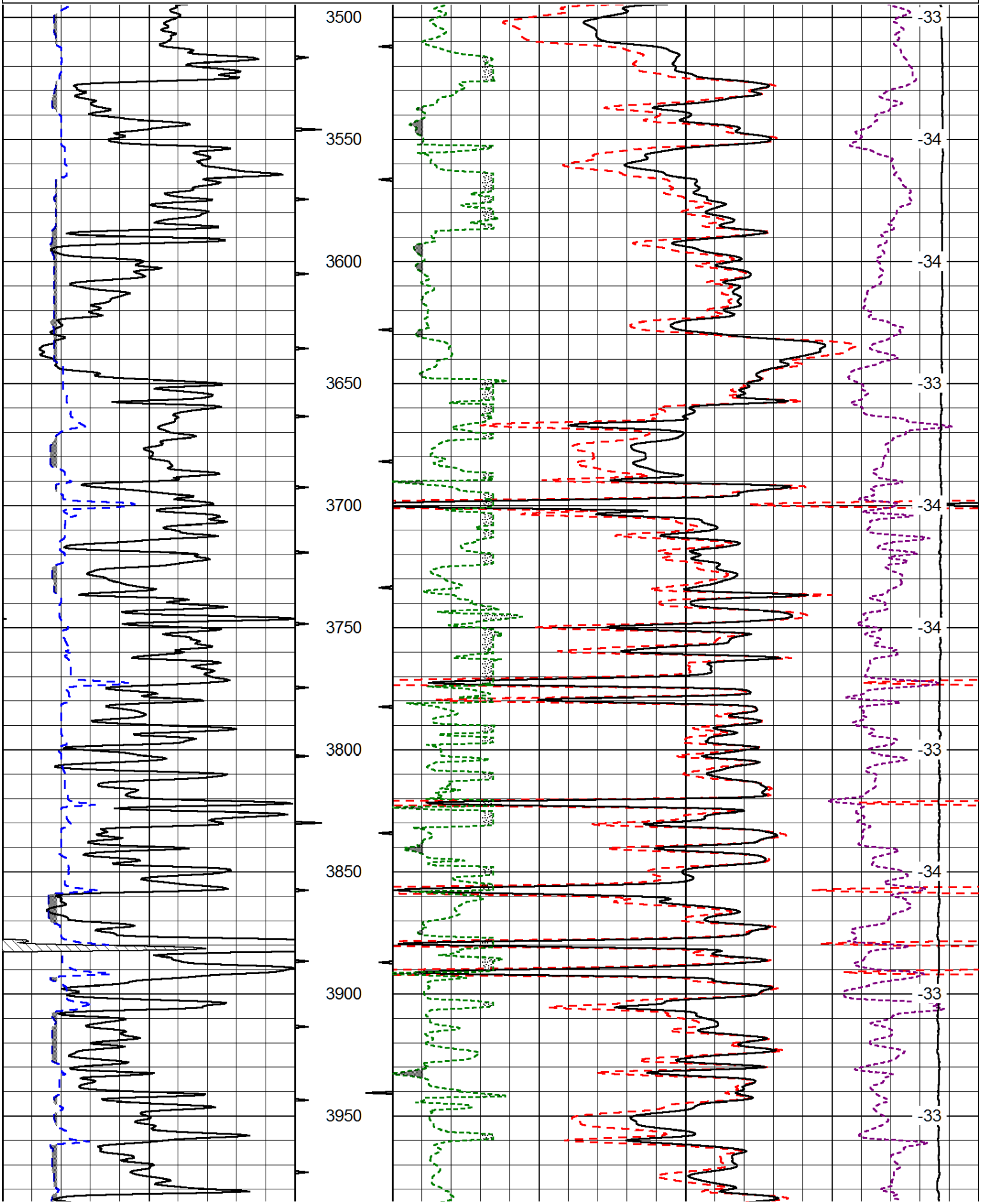
Thank you for using Log-Tech, Inc.  
(785) 625-3858

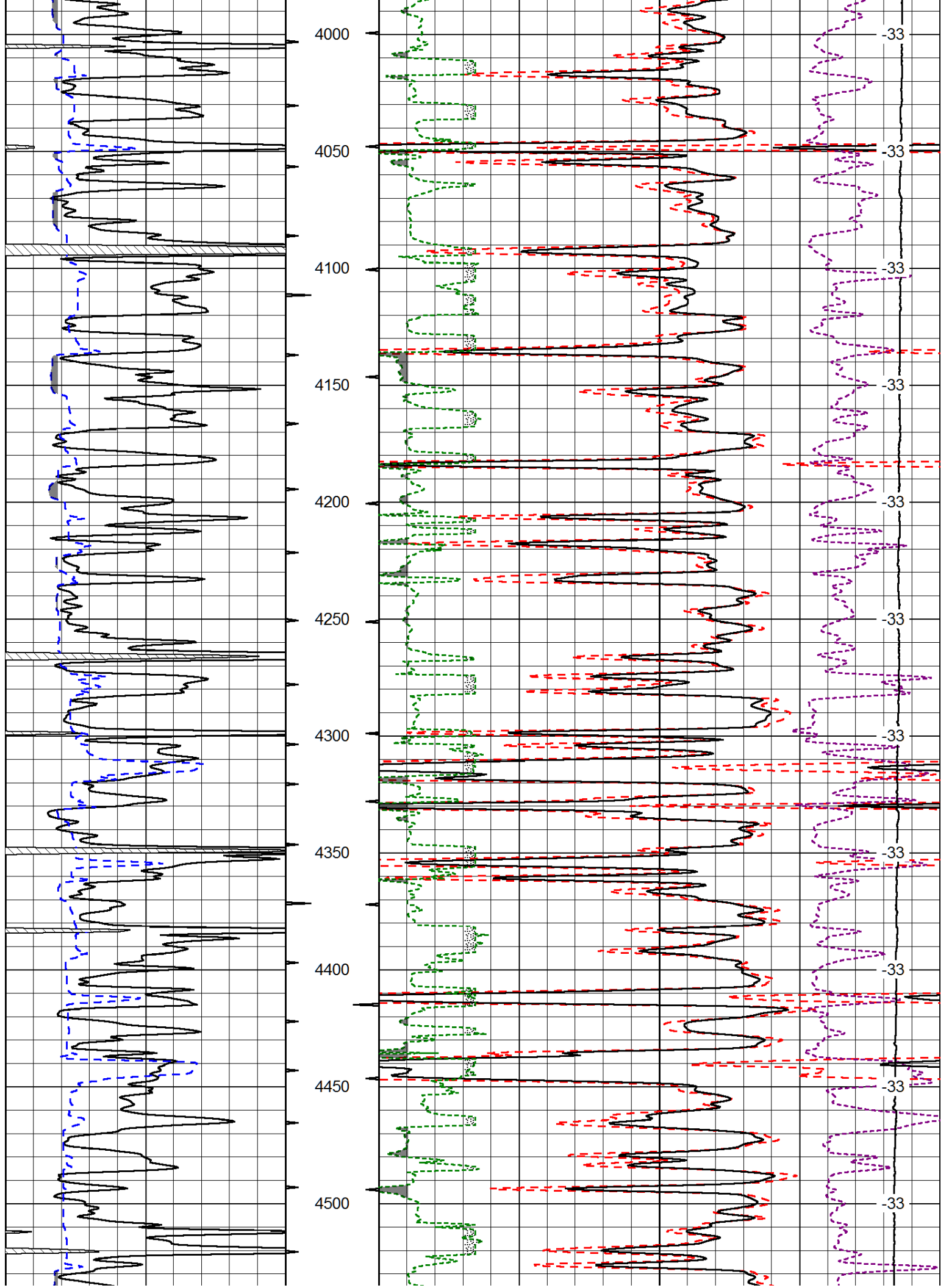
Levant I-70 Exit, 1/2 North, 4 West to 9 rd., 1 1/2 South, East Into.

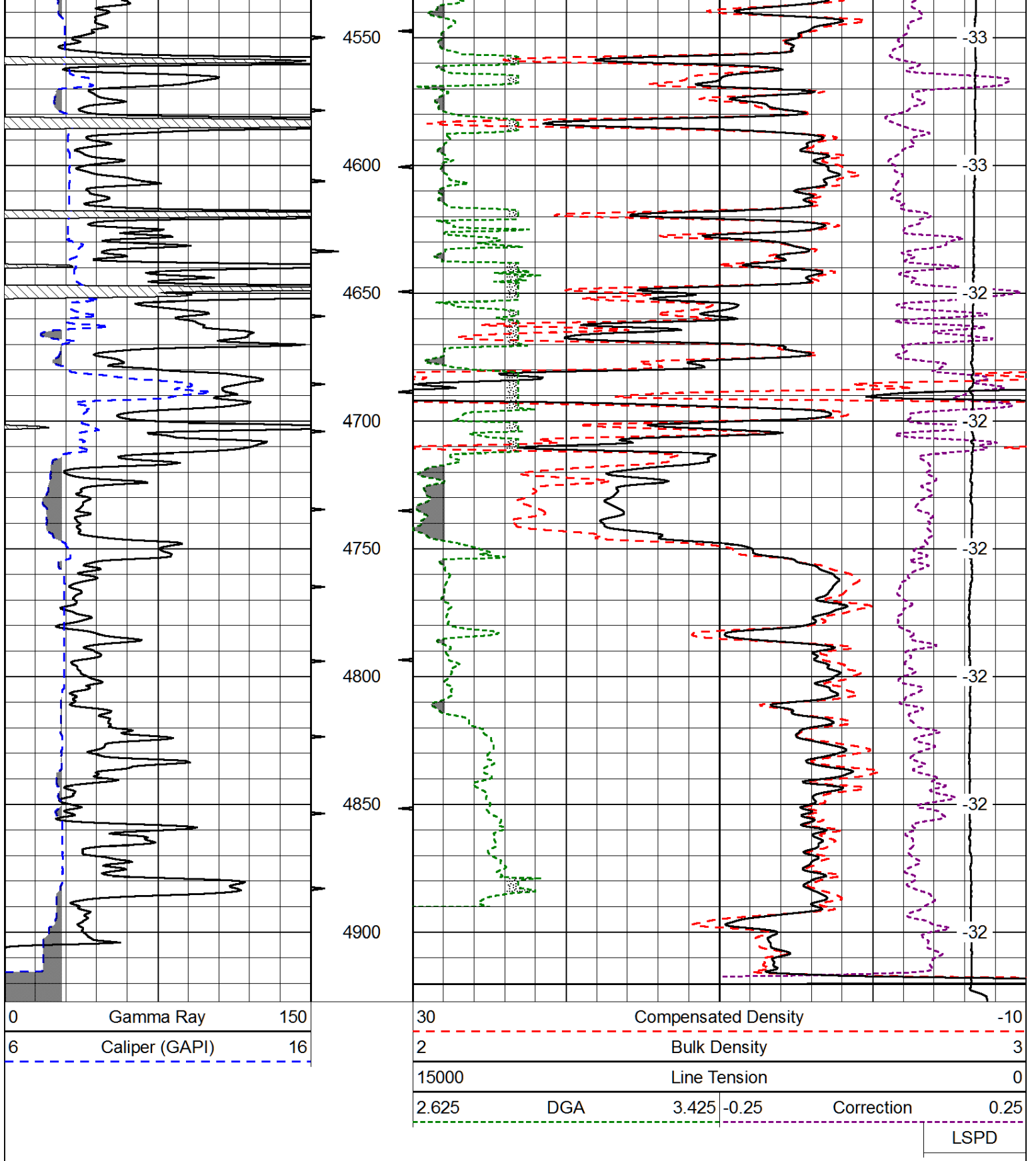
Database File: val\_otto\_1-21hd.db  
 Dataset Pathname: DIL/valstck  
 Presentation Format: cdl  
 Dataset Creation: Wed Dec 03 11:00:23 2014  
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

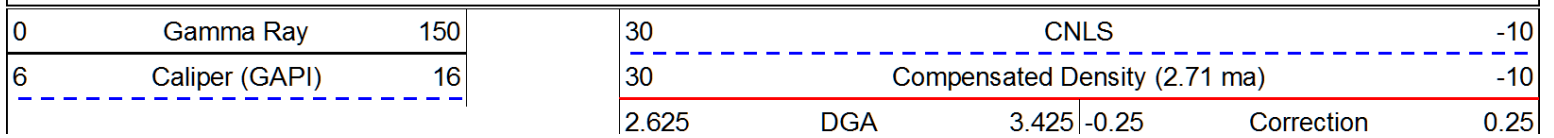
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25
			LSPD







Database File: val\_otto\_1-21hd.db  
 Dataset Pathname: DIL/valstck  
 Presentation Format: cndlspec  
 Dataset Creation: Wed Dec 03 11:00:23 2014  
 Charted by: Depth in Feet scaled 1:240



10000

Line Tension

0

LSPD

