



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-063-22245-00-00

Company Lario Oil & Gas Company
Well Knapp #10-31
Field Maurice Northeast
County Gove State Kansas

Location

1650' FNL & 4000' FEL

Sec: 31

Twp: 13S

Rge: 31W

Other Services
DIL
MEL

Permanent Datum Ground Level Elevation 2939

Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation
K.B. 2951
D.F.
G.L. 2939

Date 2/21/2015

Run Number One

Type Log CNL / CDL

Depth Driller 4700

Depth Logger 4698

Bottom Logged Interval 4677

Top Logged Interval 3500

Type Fluid In Hole Chemical

Salinity, PPM CL 3000

Density 9.3

Level Full

Max. Rec. Temp. F 123

Operating Rig Time 3 Hours

Equipment -- Location 15 Hays

Recorded By D.Kerr

Witnessed By Bob Bayer

Borehole Record

Run No Bit From To Size Wgt. From To

1 12.25 00 295 8.625 24# 00 295

2 7.875 295 4700

Casing Record

Run No Bit From To Size Wgt. From To

1 12.25 00 295 8.625 24# 00 295

2 7.875 295 4700

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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

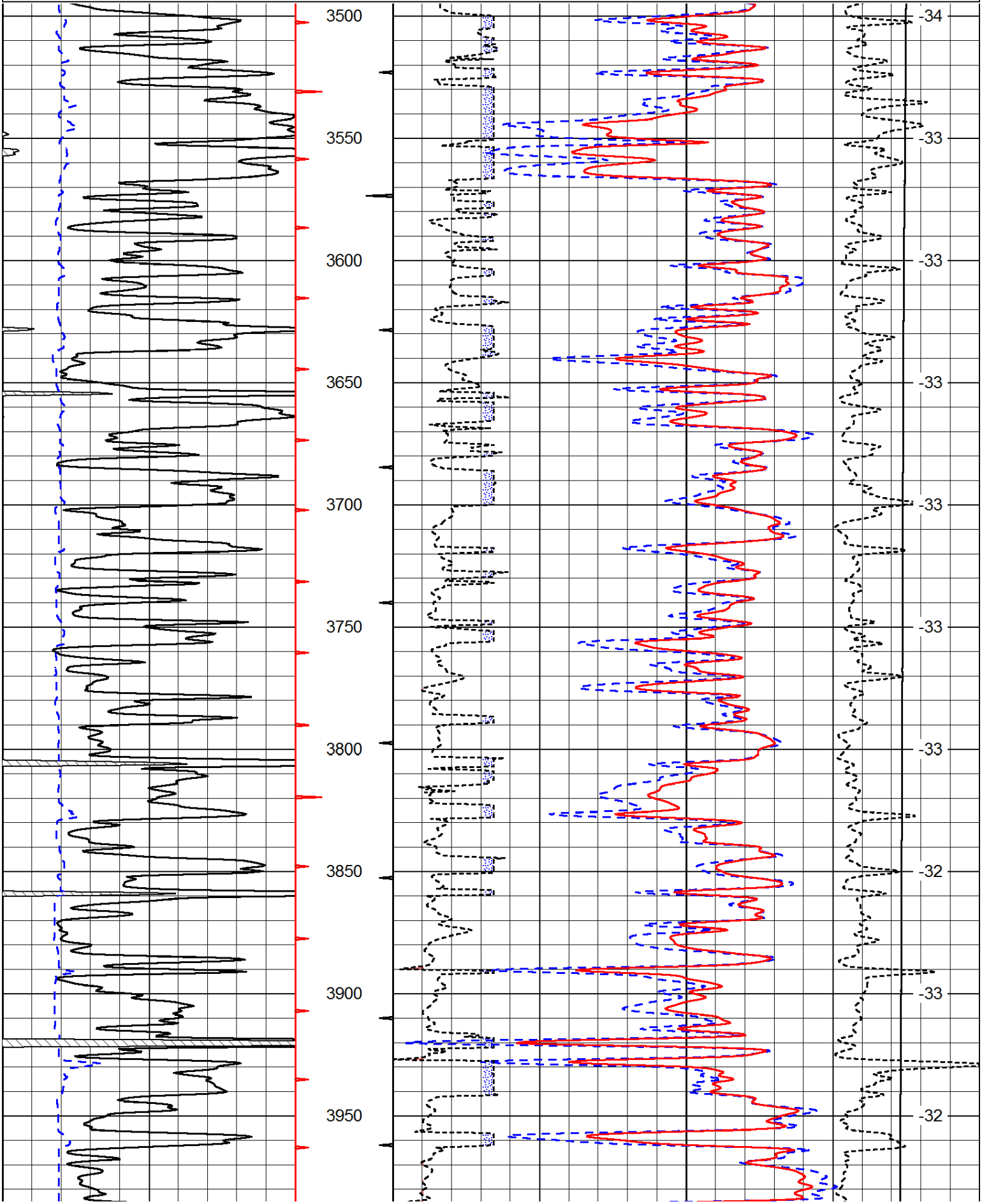
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

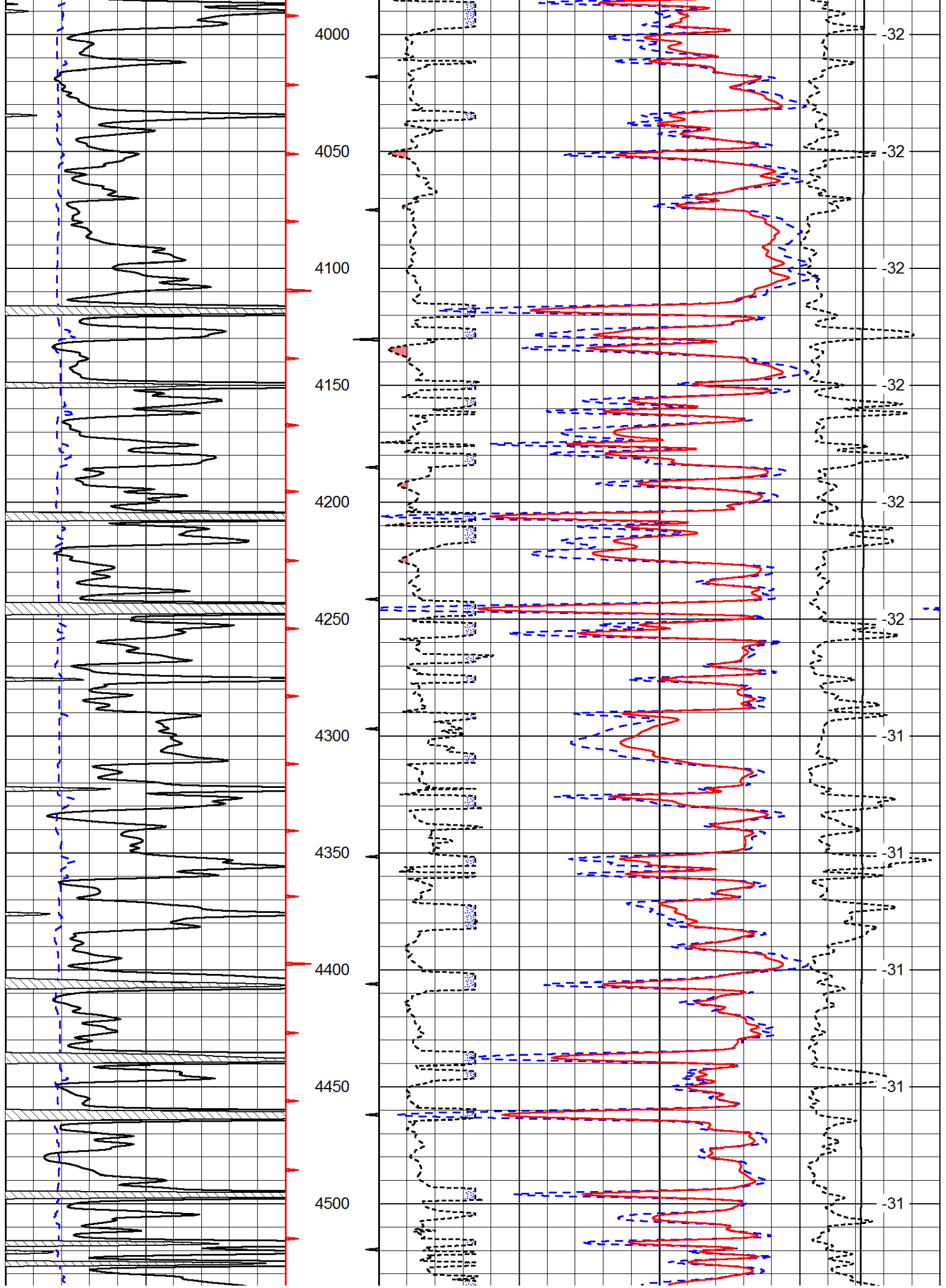
Oakley KS, 16 South to Navajo RD,
2 East, 1/8 South, East Into

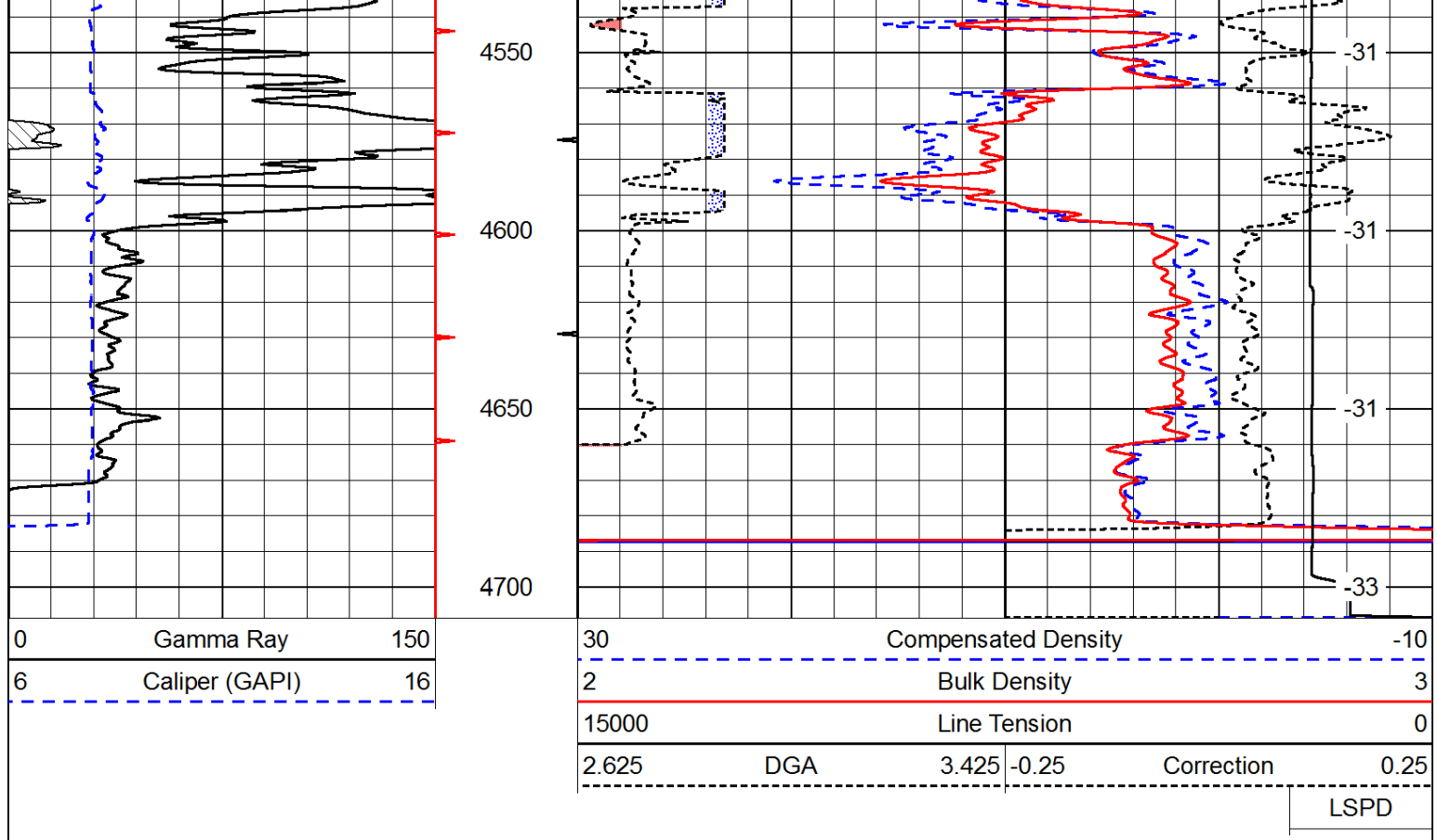
Database File: c:\warrior\data\lario_knapp #10-31\lario_knapp_10_31hd.db
Dataset Pathname: DIL\larstk
Presentation Format: cdl
Dataset Creation: Sat Feb 21 19:41:58 2015
Charted by: Depth in Feet scaled 1:600

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: c:\warrior\data\lario_knapp #10-31\lario_knapp_10_31hd.db
 Dataset Pathname: DIL/larstk
 Presentation Format: cndlspec
 Dataset Creation: Sat Feb 21 19:41:58 2015
 Charted by: Depth in Feet scaled 1:240

