



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-189-22,825-00-00

Company **Palmer Oil, Inc.**
Well **Willis # 23-5**
Field **Willis**
County **Stevens**

State **Kansas**

Location **NE NW SE NE
1,600' FNL & 700' FEL**
Sec: **23** Twp: **32S** Rge: **37W**

Other Services
DIL
MEL

Permanent Datum **Ground Level** Elevation **3107**
Log Measured From **Kelly Bushing** 13 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. 3120
D.F.
G.L. 3107

Date

12/1/2013

Run Number

One

Type Log

CNL / CDL

Depth Driller

6500

Depth Logger

6475

Bottom Logged Interval

6454

Top Logged Interval

4600

Type Fluid In Hole

Chemical

Salinity, PPM CL

2000

Density

9.3

Level

Full

Max. Rec. Temp. F

141

Operating Rig Time

5 Hours

Equipment -- Location

108 Hays

Recorded By

J. Long

Witnessed By

Wyatt Urban

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1 12.25 00 1758 8.625 24# 00 1758

2 7.875 1758 6500

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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

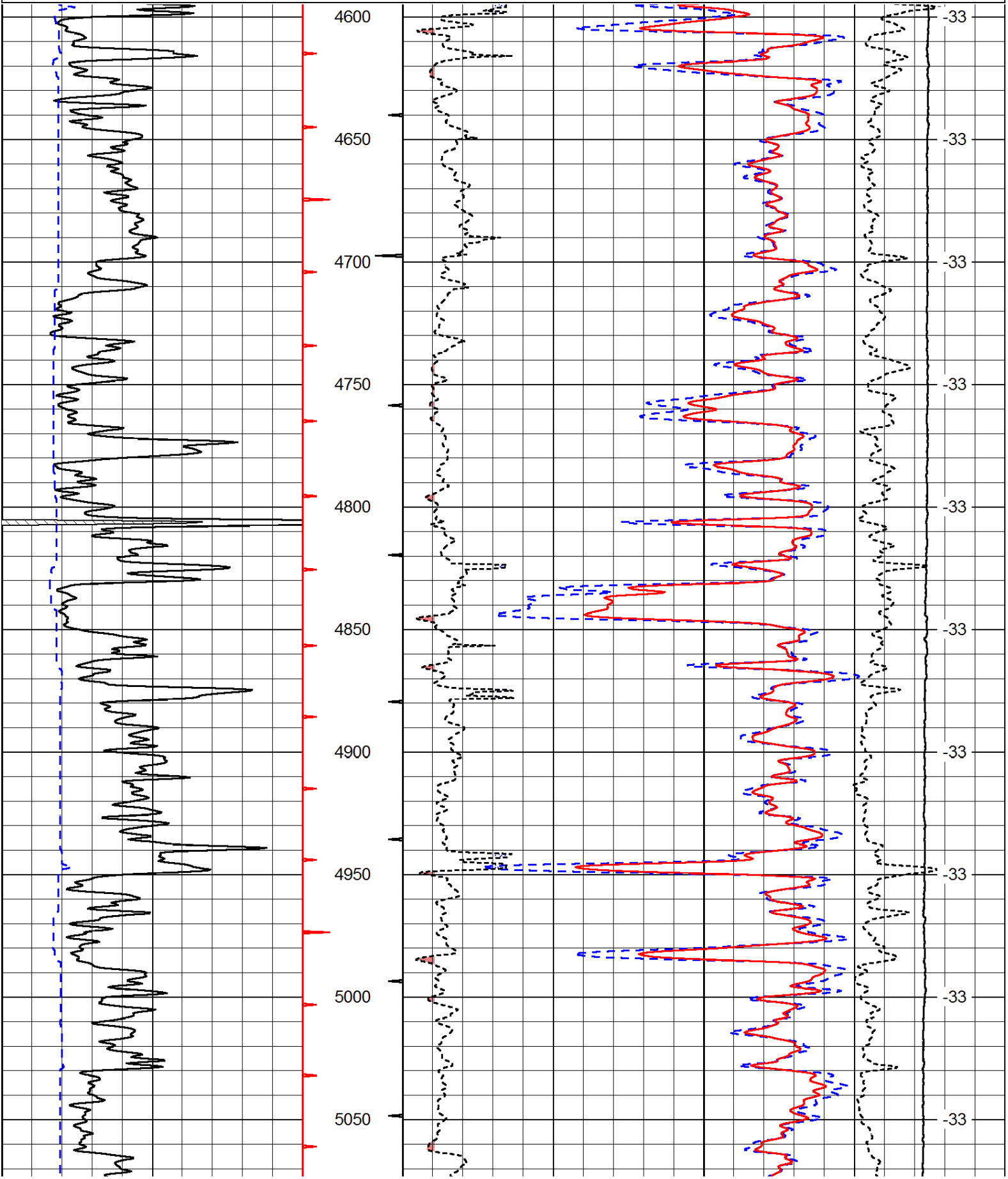
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

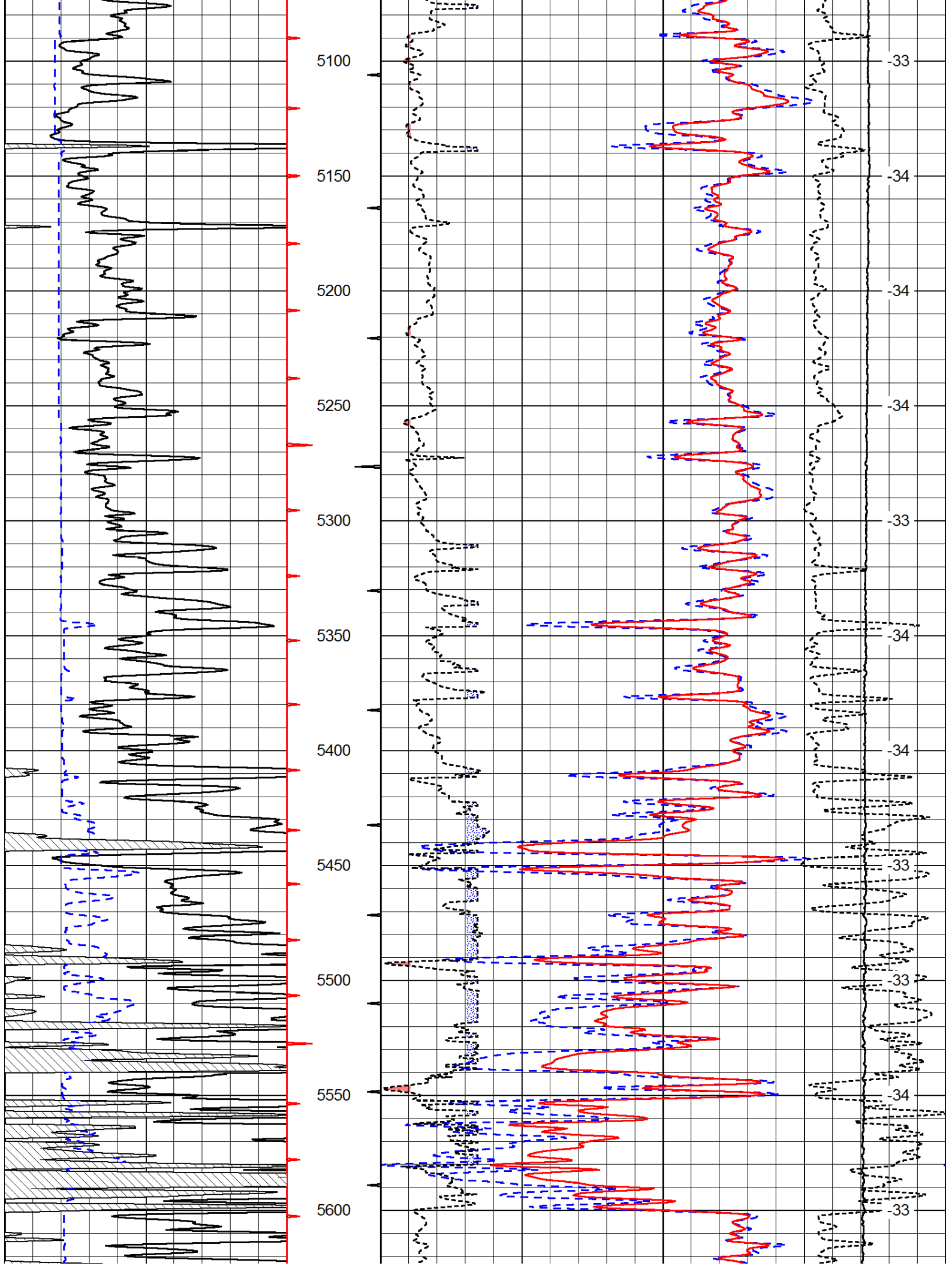
Moscow, 5 Southwest On Highway 56 to Road U, 1 West, 1/4 South, West Into

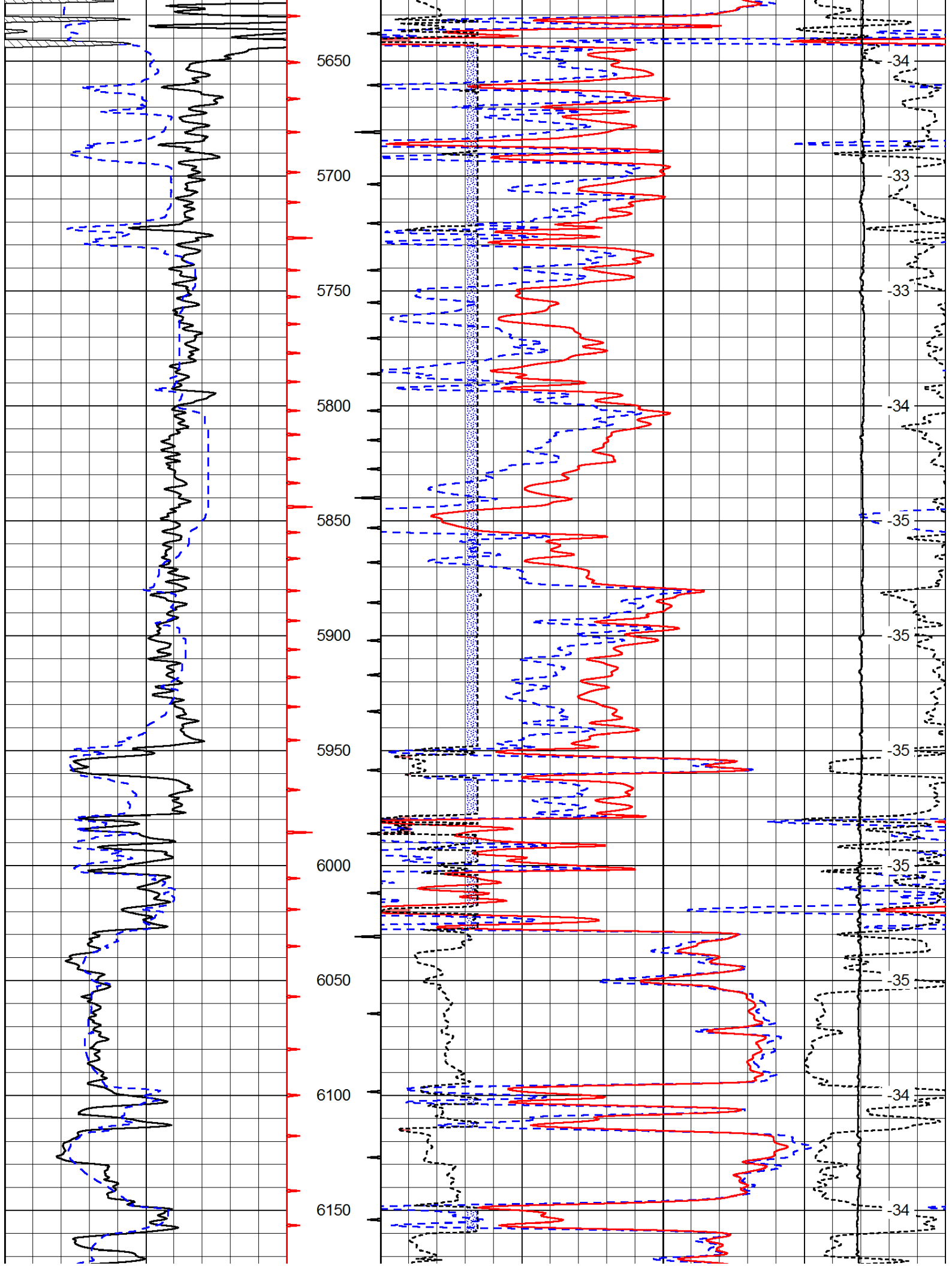
Database File: c:\warrior\data\palmer_willis # 23-5\palmer_willis_23-5hd.db
Dataset Pathname: dil/palmstck
Presentation Format: cdl
Dataset Creation: Sun Dec 01 05:58:58 2013
Charted by: Depth in Feet scaled 1:600

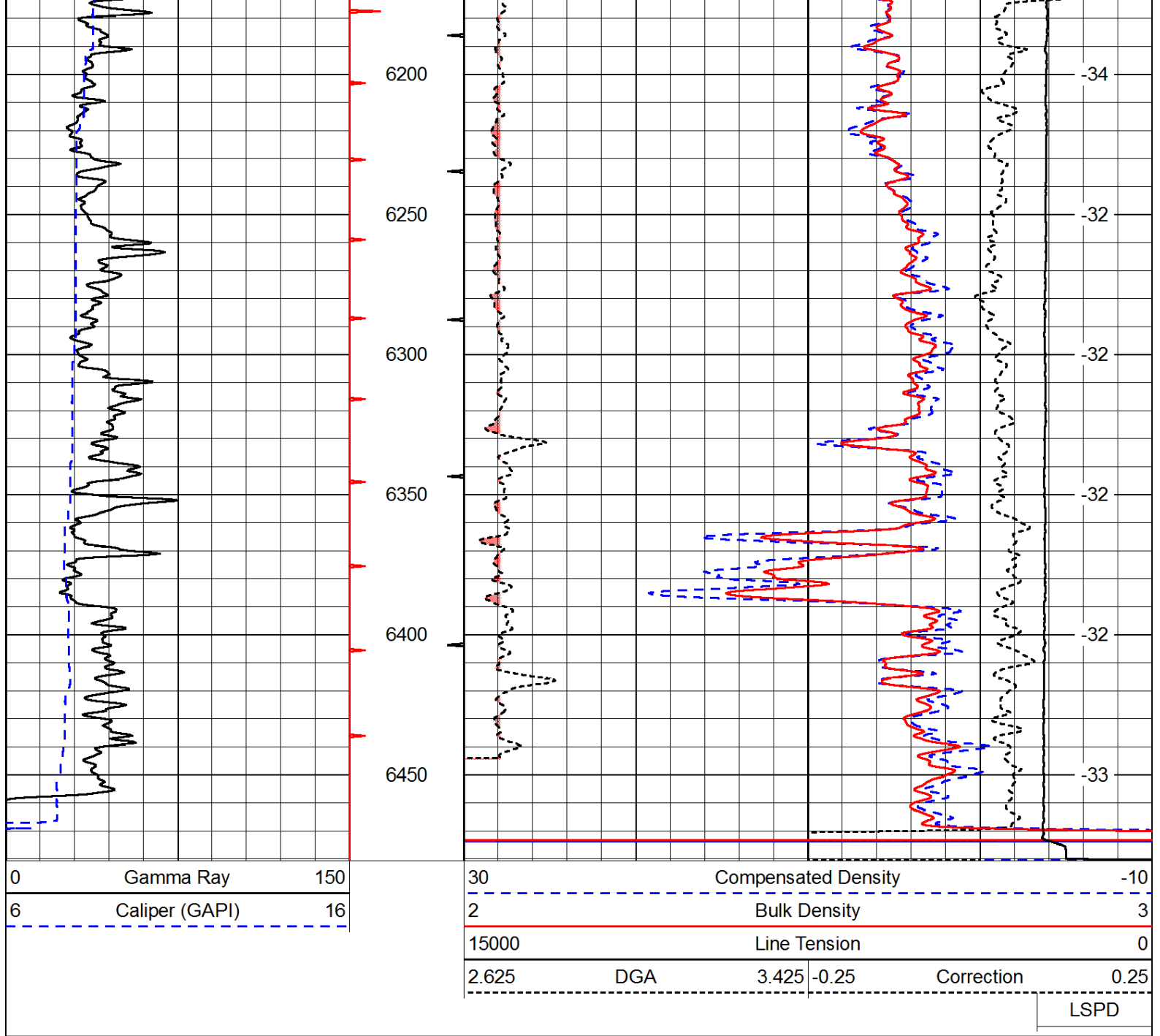
0	Gamma Ray	150
6	Caliper (GAPI)	16

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\palmer_willis # 23-5\palmer_willis_23-5hd.db
 Dataset Pathname: dil/palmstck
 Presentation Format: cndlspec
 Dataset Creation: Sun Dec 01 05:58:58 2013
 Charted by: Depth in Feet scaled 1:240

