



Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-141-20,459-00-00

Company **Bruce Oil Company, LLC**

Well **Bowen "B" No. 1**

Field

County **Osborne**

State **Kansas**

Location

1,600' FSL & 500' FEL

Sec: 16

Twp: 8S

Rge: 14W

Permanent Datum
Log Measured From
Drilling Measured From

Ground Level
Kelly Bushing
Kelly Bushing

Elevation 1751
5 Ft. Above Perm. Datum

Other Services
DIL
MEL

Elevation
K.B. 1756
D.F.
G.L. 1751

Date

6/25/2013

Run Number

One

Type Log

CNL / CDL

Depth Driller

2830

Depth Logger

2810

Bottom Logged Interval

2789

Top Logged Interval

1600

Type Fluid In Hole

Chemical

Salinity, PPM CL

1100

Density

8.9

Level

Full

Max. Rec. Temp. F

104

Operating Rig Time

3 1/2 Hours

Equipment -- Location

108 Hays

Recorded By

J. Long

Witnessed By

Bob Peterson

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

710

8.625

24#

00

710

2

7.875

710

2830

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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

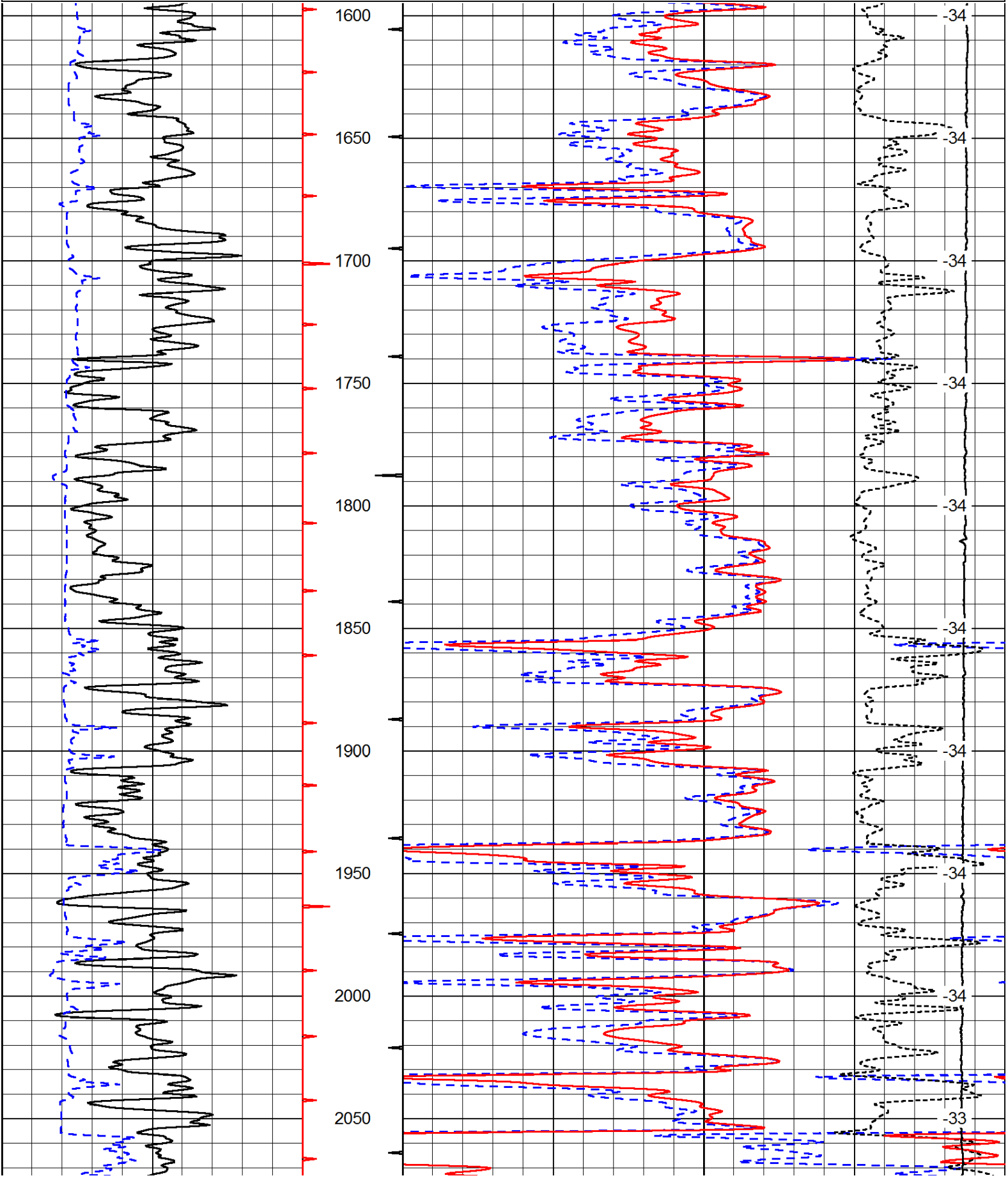
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

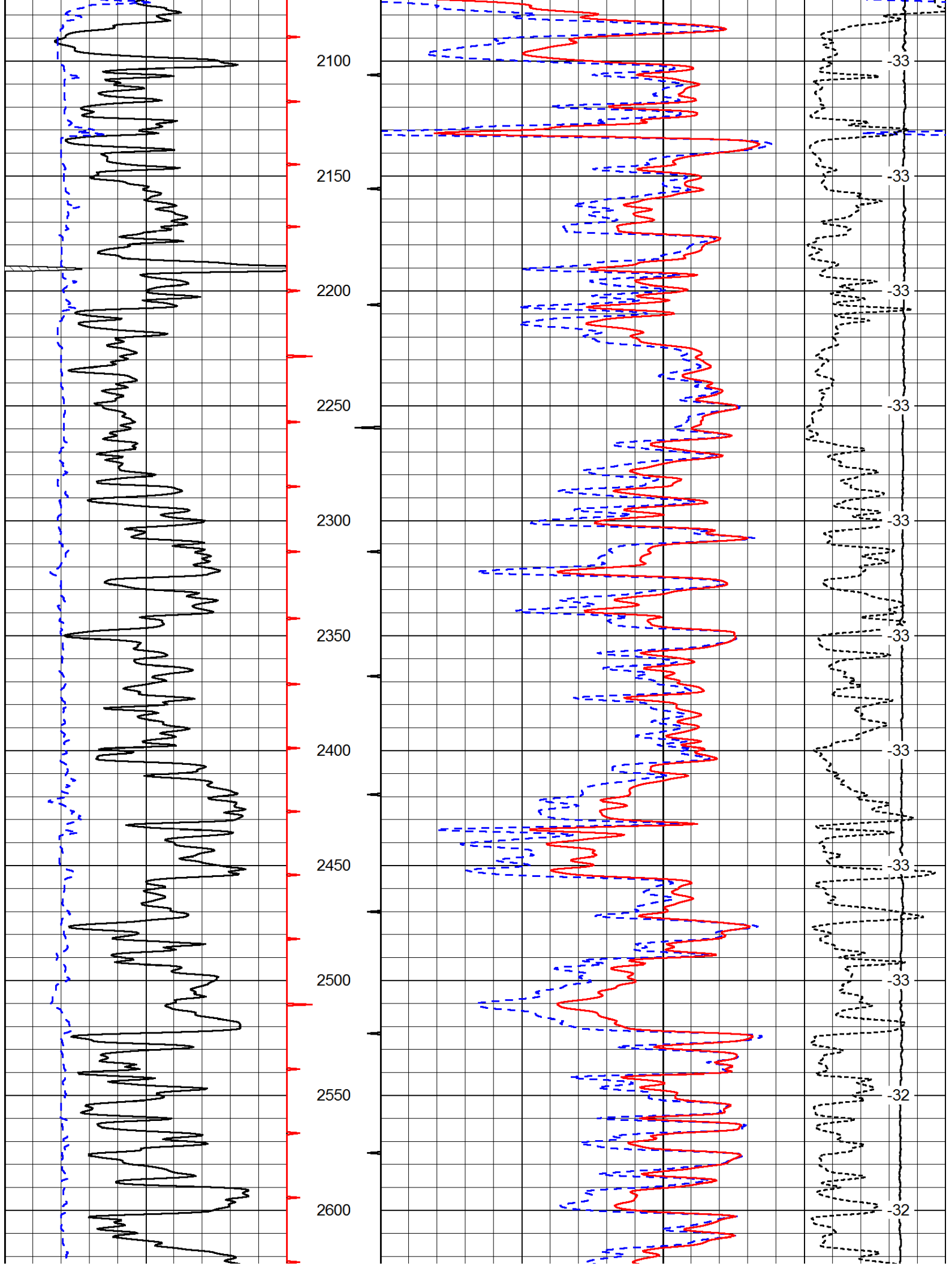
Natoma, 11 North on 280th Road (657 Road), 1 East, 1 North, 6 East, South Into

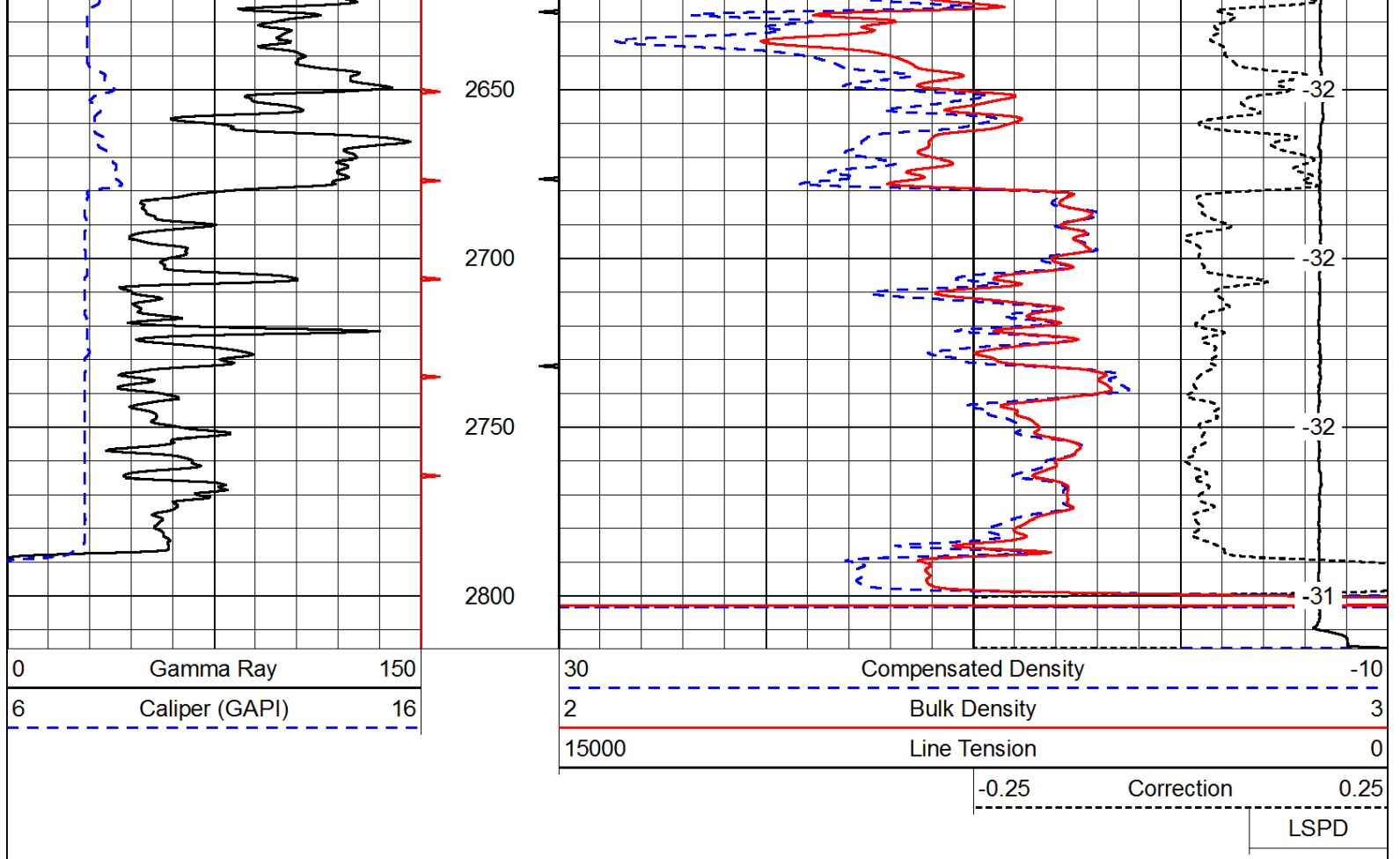
Database File: c:\warrior\data\bruce oil_bowen b # 1\bruceoil_bowen_b_1hd.db
Dataset Pathname: dil/brucestck
Presentation Format: cdl
Dataset Creation: Tue Jun 25 07:09:43 2013
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

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







Database File: c:\warrior\data\bruce oil_bowen b # 1\bruceoil_bowen_b_1hd.db
 Dataset Pathname: dil/brucestck
 Presentation Format: cndlspec
 Dataset Creation: Tue Jun 25 07:09:43 2013
 Charted by: Depth in Feet scaled 1:240

