



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-007-24148-00-00

Company Indian Oil Company, Inc.

Well Swartz-Indian #1

Field Whelan

County Barber

State Kansas

Location 1320' FNL & 2145' FEL

DIL

Sec: 31

Twp: 31S

Rge: 11W

Elevation

Permanent Datum Ground Level Elevation 1505
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1515
D.F.
G.L. 1505

Date

3/31/2014

Run Number

One

Type Log

CNL / CDL

Depth Driller

4500

Depth Logger

4500

Bottom Logged Interval

4479

Top Logged Interval

3100

Type Fluid In Hole

Chemical

Salinity, PPM CL

7000

Density

9.4

Level

Full

Max. Rec. Temp. F

123

Operating Rig Time

3 Hours

Equipment -- Location

91 Hays

Recorded By

D. Schmidt

Witnessed By

Scott Alberg

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

1

12.25

00

210

8.625

24#

00

210

2

7.875

210

4500

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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.

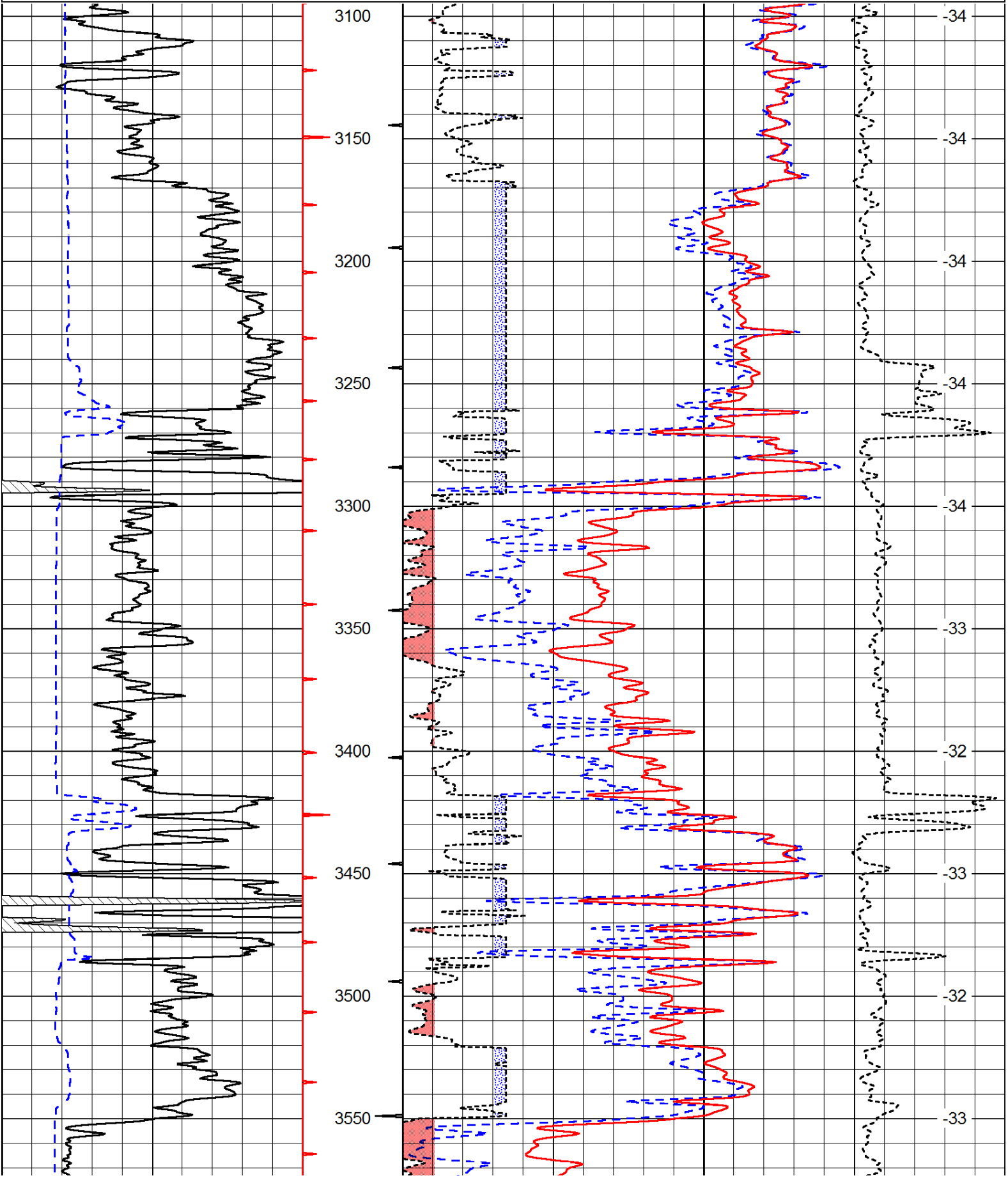
Comments

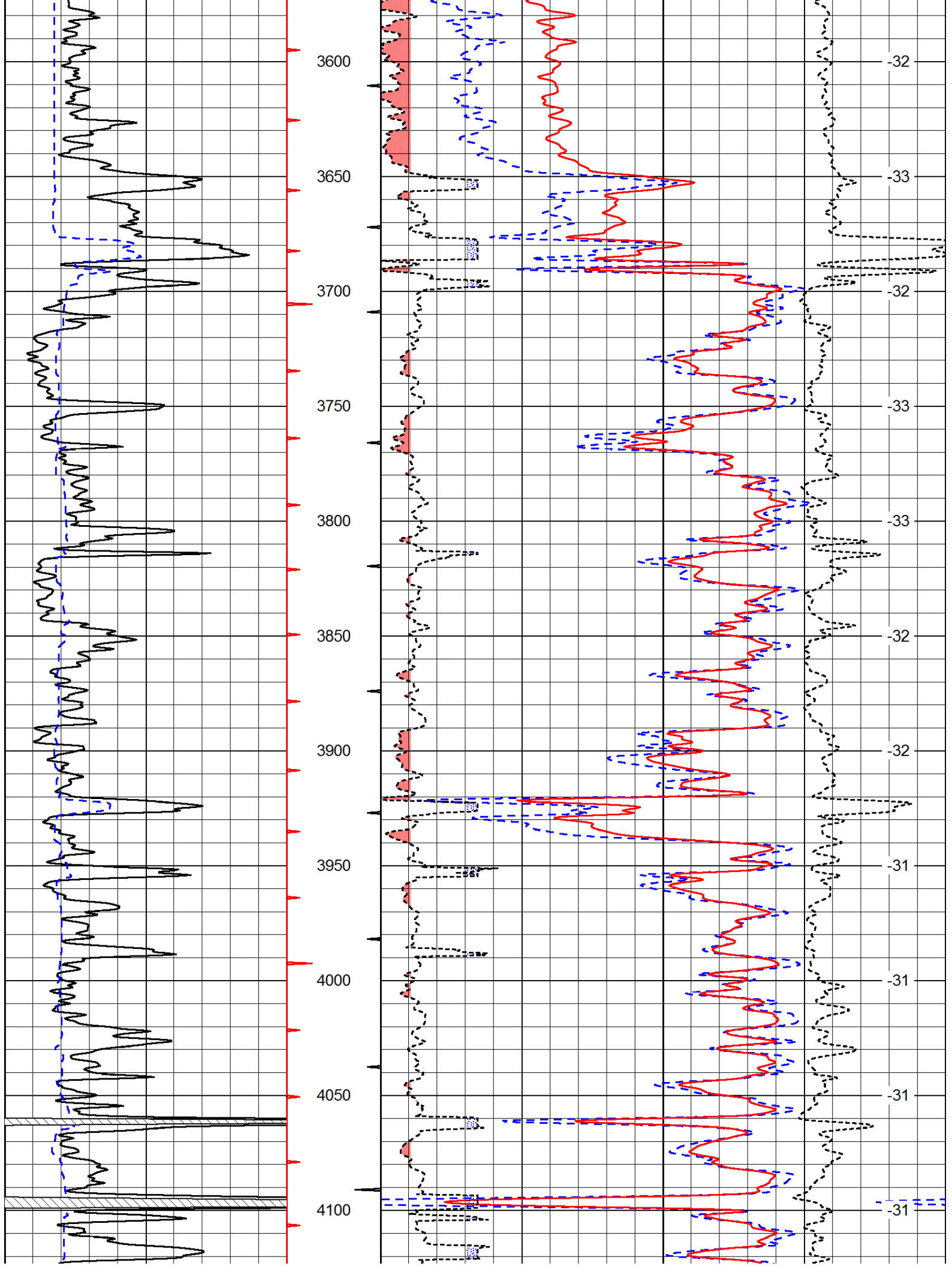
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Medicine Lodge,
East to Isabel Blacktop, 2 1/2 North,
1/2 West, South into

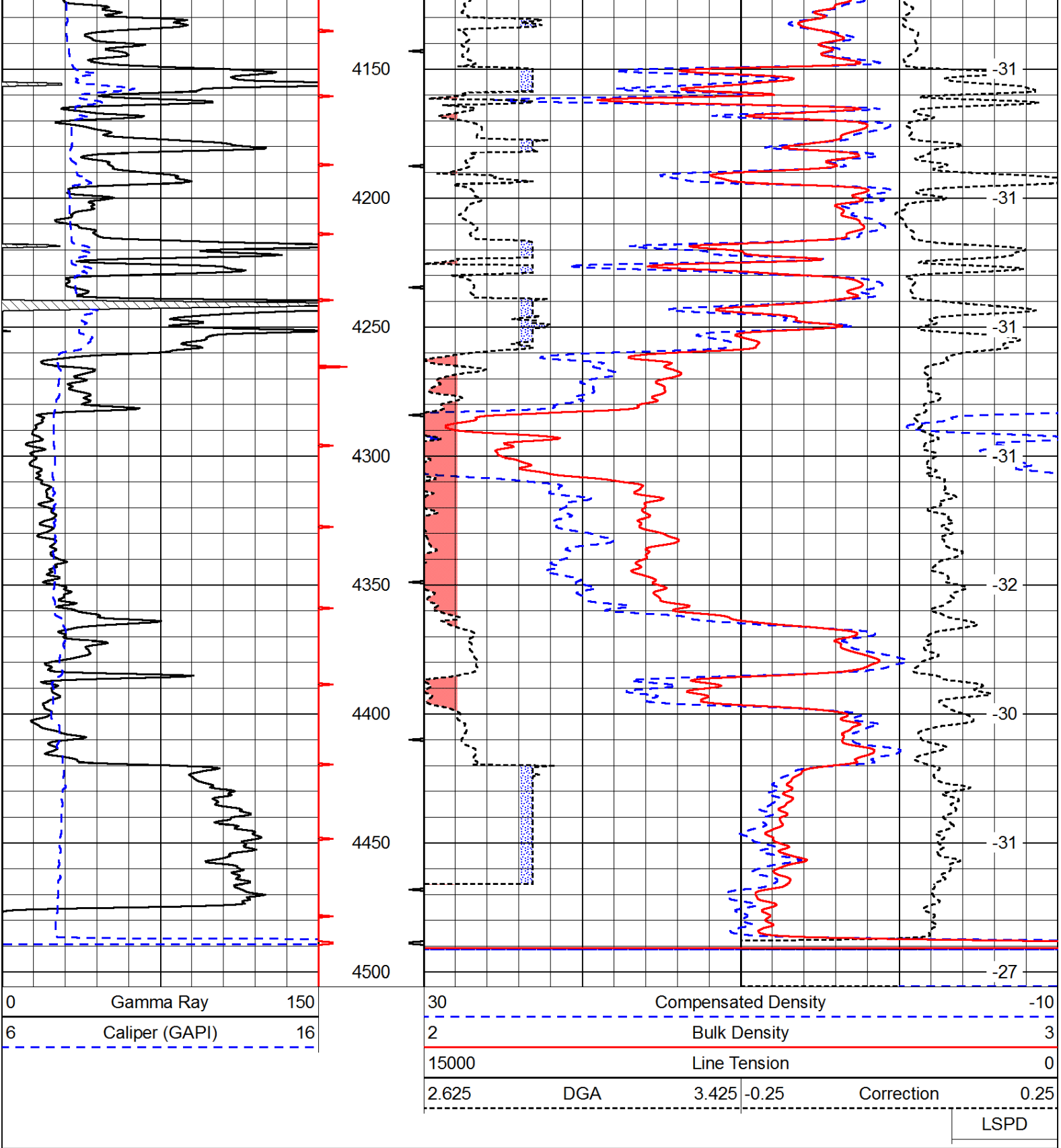
Database File: c:\warrior\data\indian oil_swartz-indian #1\indian_033114hd.db
Dataset Pathname: dil/indstck
Presentation Format: cdl
Dataset Creation: Mon Mar 31 23:30:34 2014
Charted by: Depth in Feet scaled 1:600

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:		c:\warrior\data\indian oil_swartz-indian #1\indian_033114hd.db	
Dataset Pathname:		dil/indstck	
Presentation Format:		cndlspec	
Dataset Creation:		Mon Mar 31 23:30:34 2014	
Charted by:		Depth in Feet scaled 1:240	

0	Gamma Ray	150	30	Compensated Neutron (Limestone)	-10
6	Caliper (GAPI)	16	30	Compensated Density (Limestone)	-10
			2.625	DGA	3.425
			-0.25	Correction	0.25
			15000	Line Tension	0

