



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-101-22,541-00-00

Company **Larson Engineering, Inc.**

Well **James Children's Trust #1-9**

Field **Wildcat**

County **Lane** State **Kansas**

Location

**SE NE NE NW
595' FNL & 2565' FWL**

Other Services
CNL/CDL
MEL

Sec: **9**

Twp: **16S**

Rge: **28W**

Elevation

Permanent Datum Ground Level Elevation 2618

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

K.B. 2627
D.F.
G.L. 2618

Date 11/16/2014

Run Number One

Type Log CNL / CDL

Depth Driller 4500

Depth Logger 4498

Bottom Logged Interval 4477

Top Logged Interval 3600

Type Fluid In Hole Chemical

Salinity, PPM CL 2,800

Density 9.0

Level Full

Max. Rec. Temp. F 121

Operating Rig Time 4 Hours

Equipment -- Location 51 Hays

Recorded By C. Desaire

Witnessed By Vern Schrag

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

257

1

12.25

00

257

8.625

24#

00

2

7.875

257

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

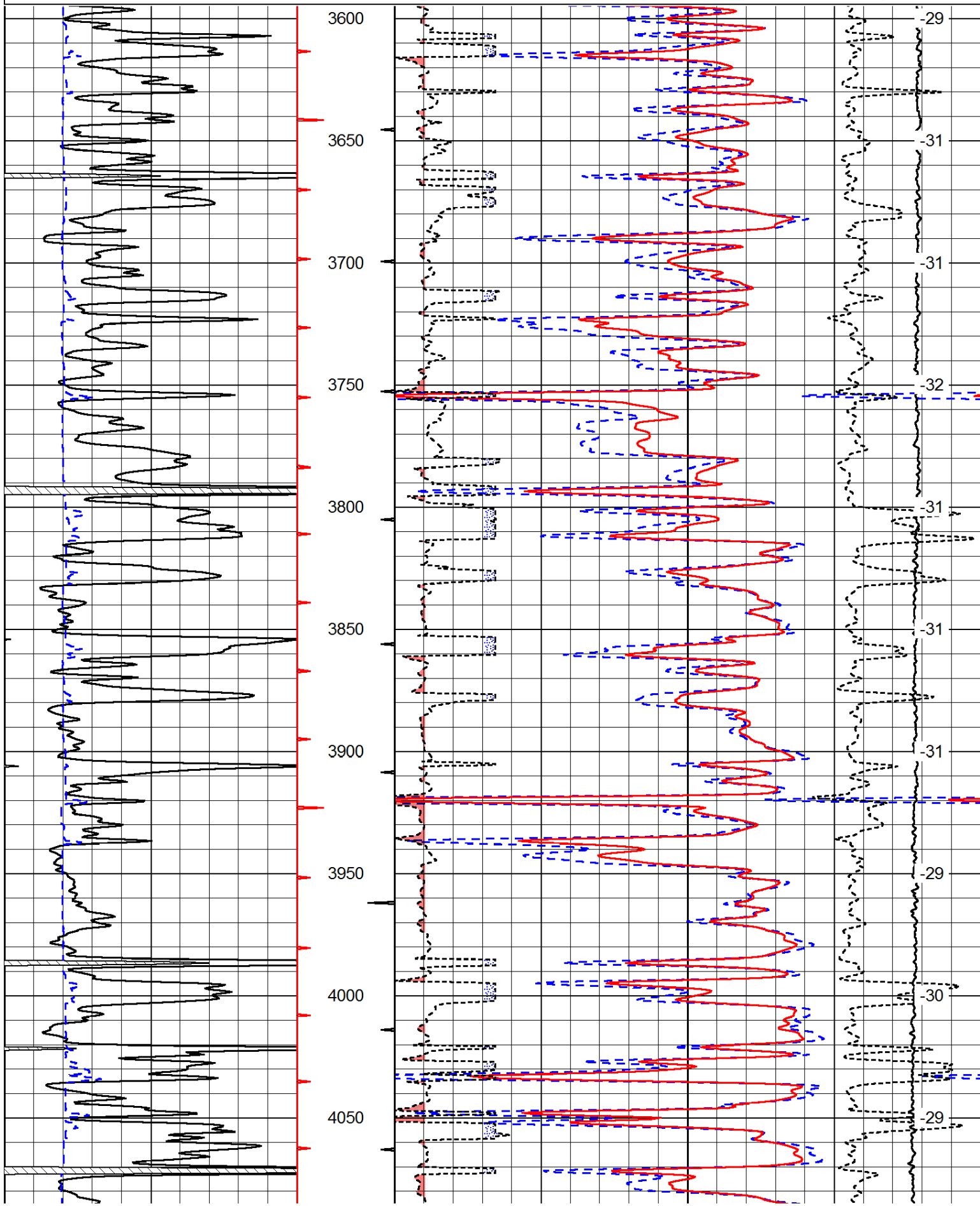
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

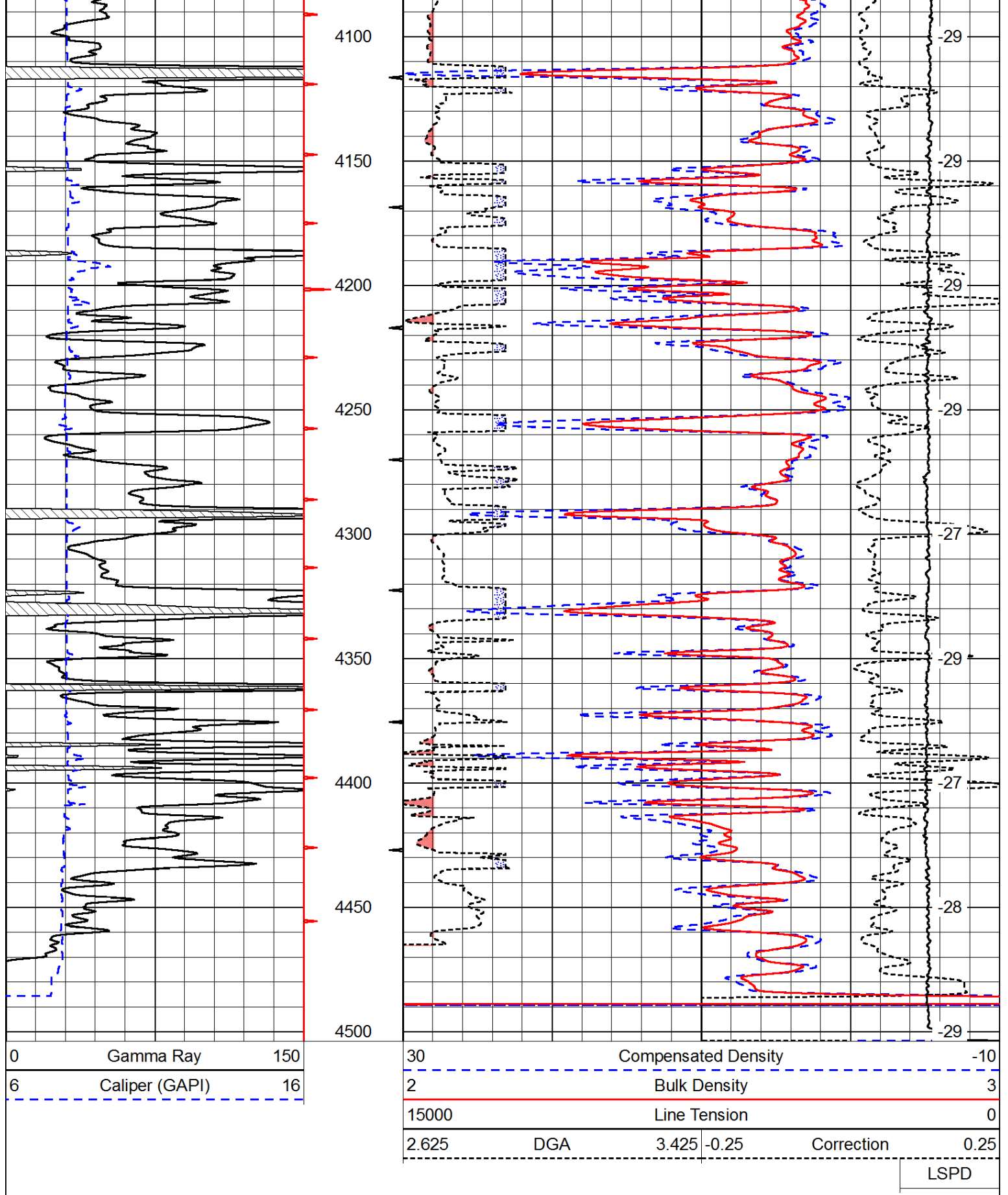
Shields KS, E edge, 4 N on Laredo Rd to 280 Rd,
1 1/2 E, 1 N, W Into 3/4

Database File: c:\warrior\data\larson_james children's trust #1-9\larhd.db
Dataset Pathname: dil\larstk
Presentation Format: cdl
Dataset Creation: Sun Nov 16 16:39:32 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			



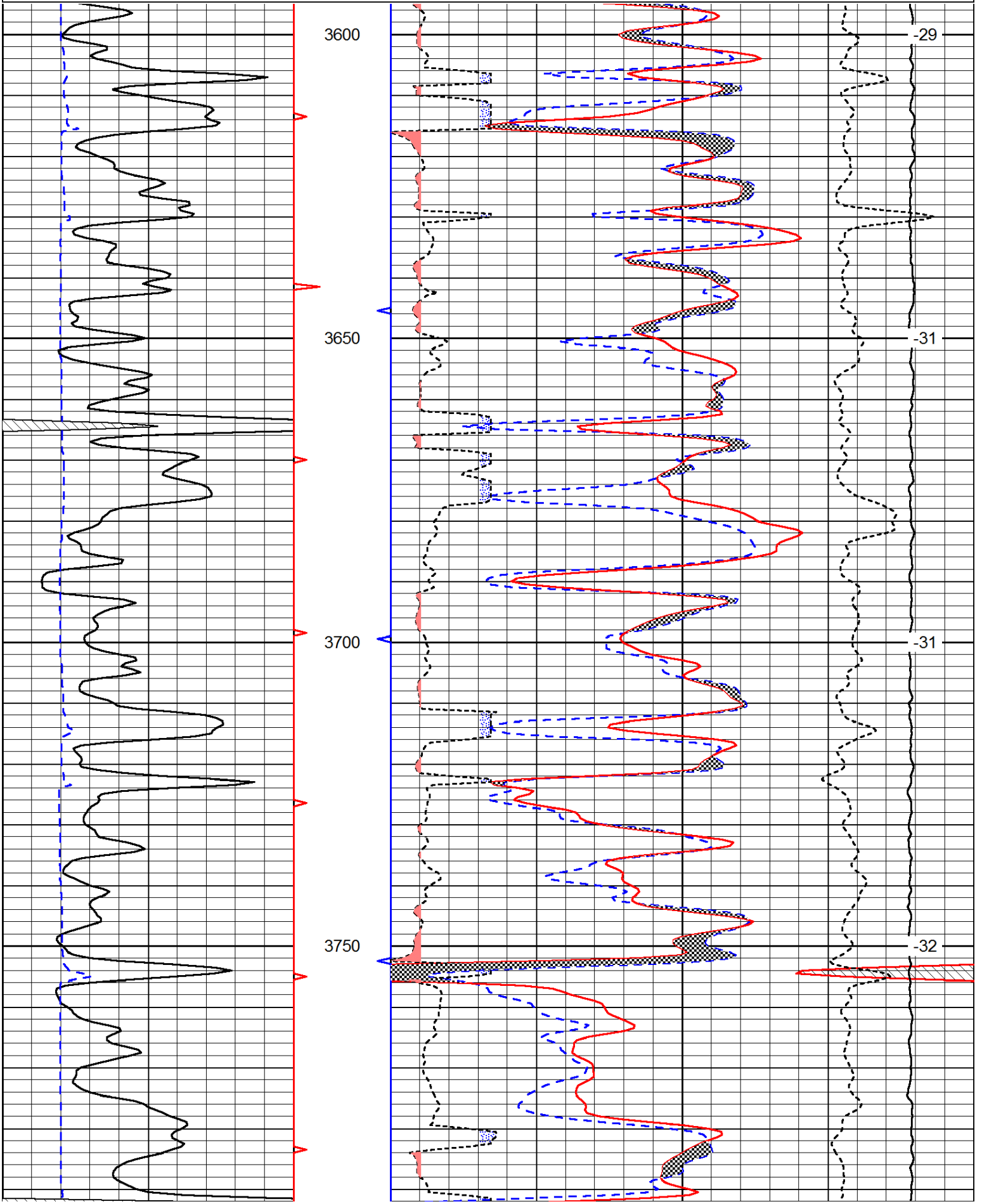


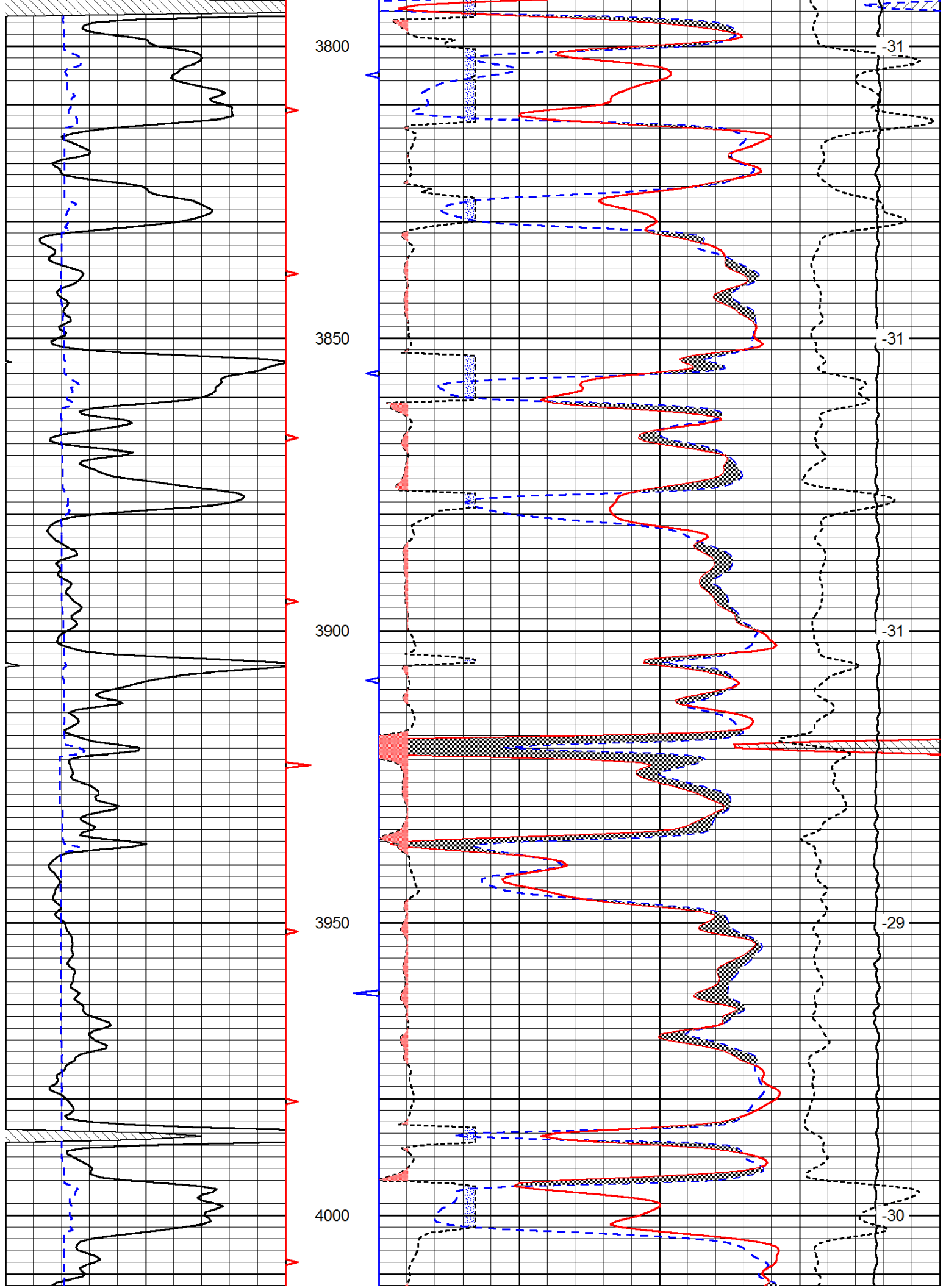
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Dataset Pathname: dil\larstk
Presentation Format: cndlspec
Dataset Creation: Sun Nov 16 16:39:32 2014
Charted by: Depth in Feet scaled 1:240

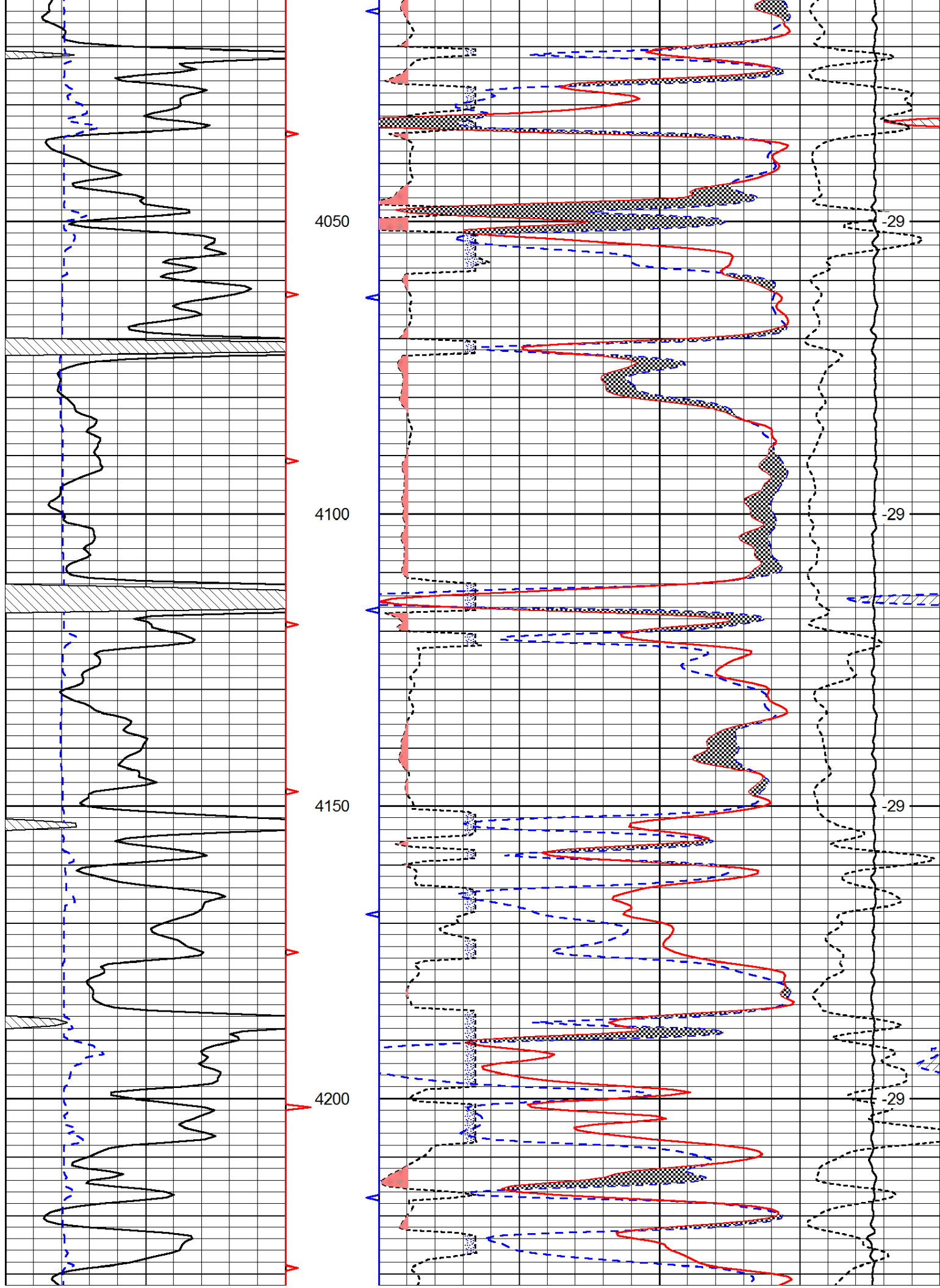
6	Caliper (GAPI)	16
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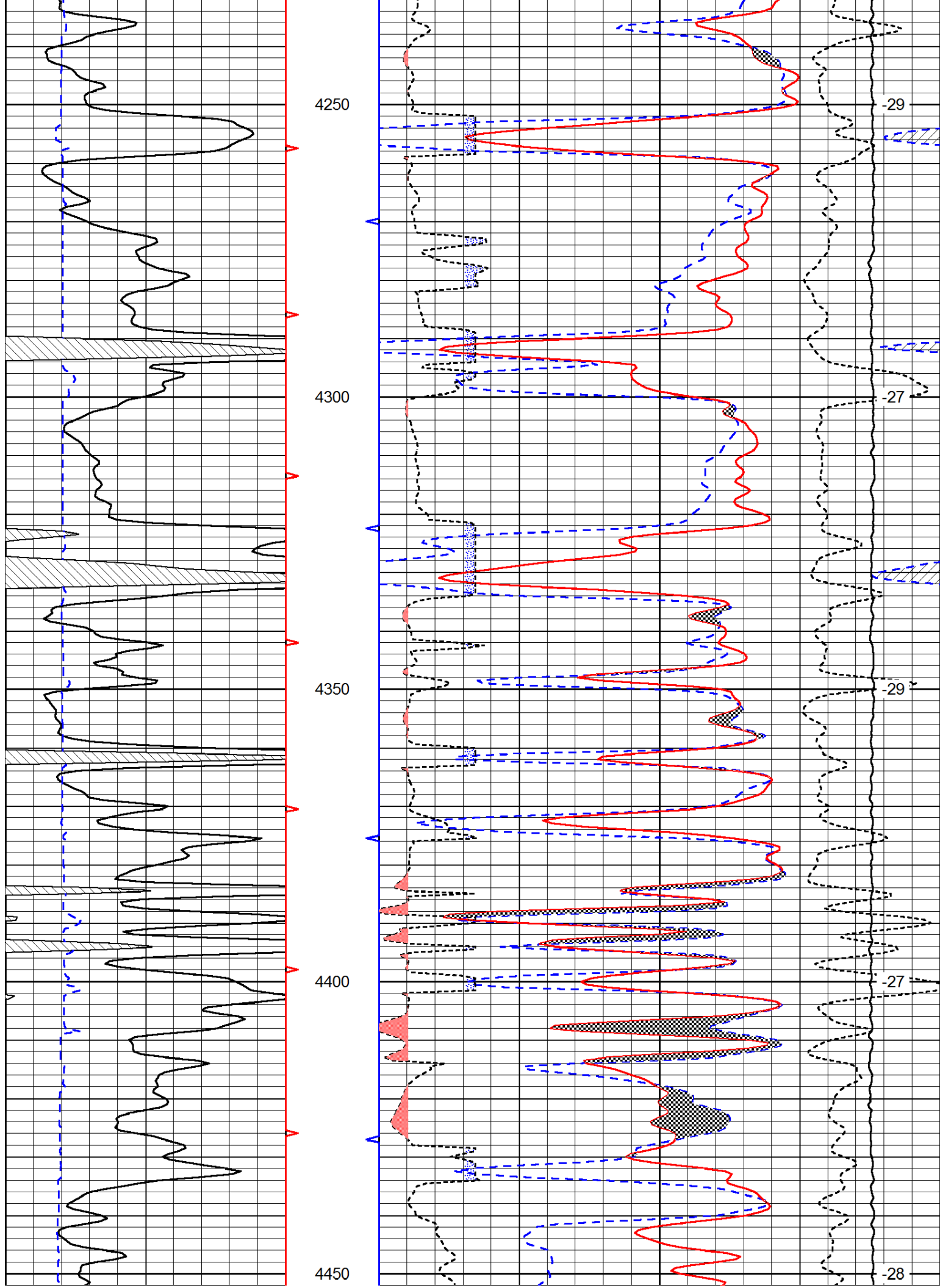
50	Compensated Neutron (Limestone)		-10
30	Compensated Density (Limestone)		-10
2.625	DGA	3.425 -0.25	Correction 0.25
15000	Line Tension		0

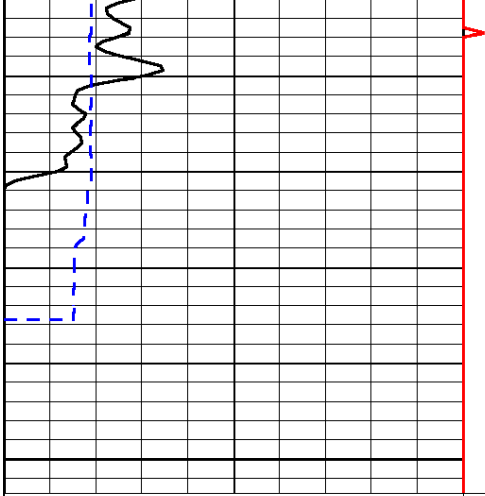
LSPD





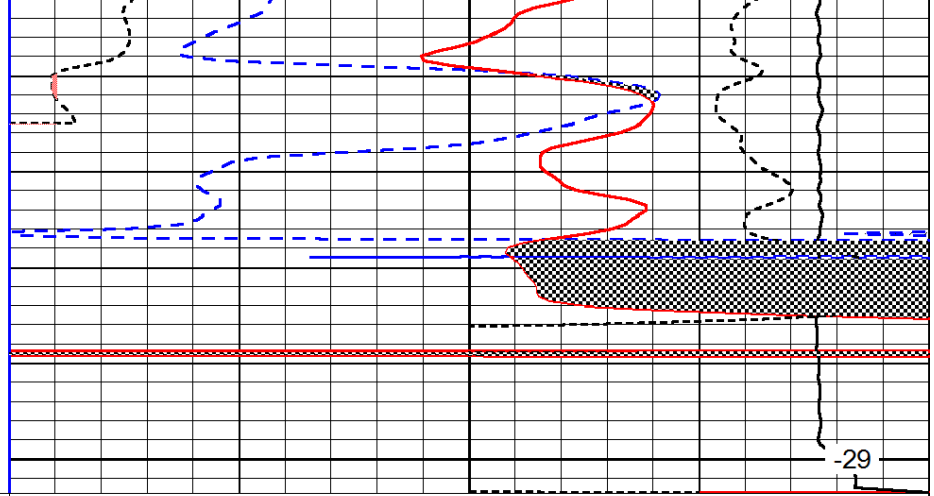






4500

0	Gamma Ray	150
6	Caliper (GAPI)	16



-29

30	Compensated Neutron (Limestone)				-10
30	Compensated Density (Limestone)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0

LSPD