



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-171-21,011-00-00

Company **Landmark Resources, Inc.**

Well **Janzen No. 1-1**

Field **Wildcat**

County

Scott

State **Kansas**

Location

**SW-SE-SW-SE
100' FSL & 1870' FEL**

Other Services
DIL
MEI/BHCS

Sec: 1

Twp: 17S

Rge: 34W

Elevation

Permanent Datum

Ground Level
Kelly Bushing

Elevation 3098
11 Ft. Above Perm. Datum

Log Measured From

Kelly Bushing

Elevation 3098
D.F. 3109
G.L. 3098

Drilling Measured From

Kelly Bushing

Elevation 3098
D.F. 3109
G.L. 3098

Date

12/22/13

Run Number

One

Type Log

CNL / CDL

Depth Driller

4897

Depth Logger

4902

Bottom Logged Interval

4881

Top Logged Interval

3550

Type Fluid In Hole

Chemical

Salinity, PPM CL

8,300

Density

9.5

Level

Full

Max. Rec. Temp. F

125

Operating Rig Time

5 Hours

Equipment -- Location

15 Hays

Recorded By

J. Henrickson

Witnessed By

Wes Hansen

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.
23#

From

To

One

12.25

00

261

8.625

00

261

Two

7.875

261

TD

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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

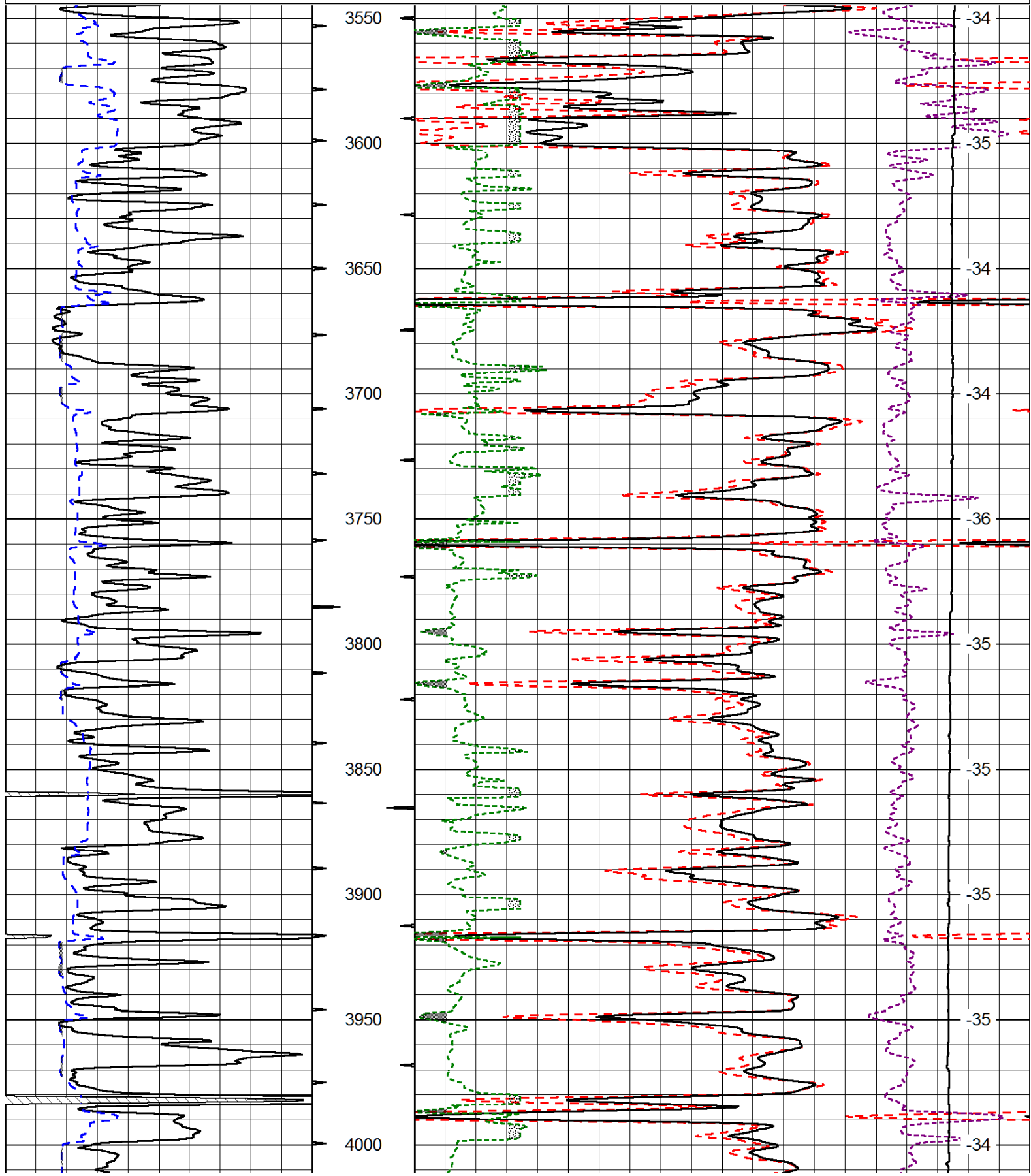
Thank you for using Log-Tech, Inc.
(785) 625-3858

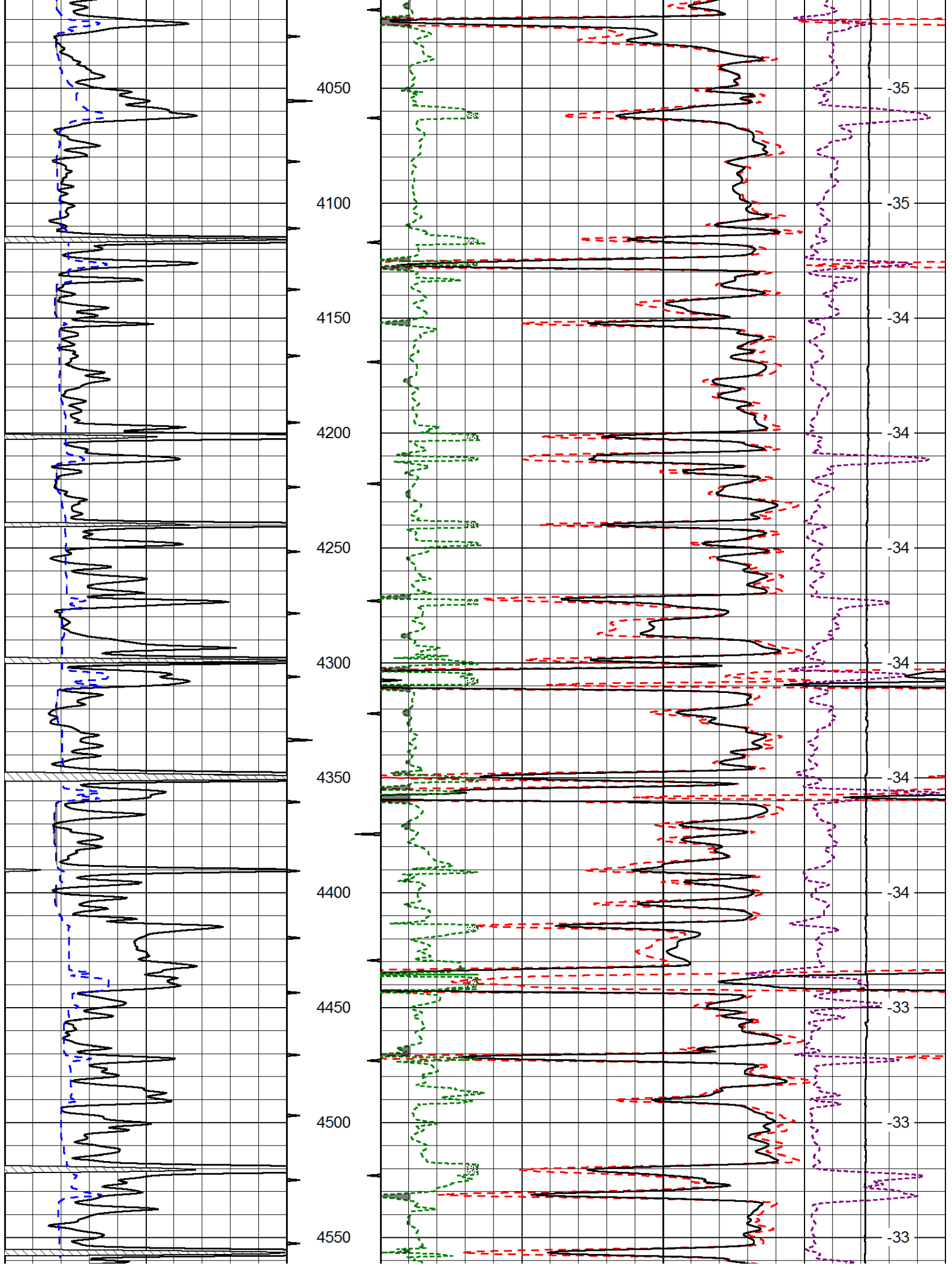
Oakley Kansas
South to HWY 83 & Hwy 4 Intersection, 6 1/2 West, North Into

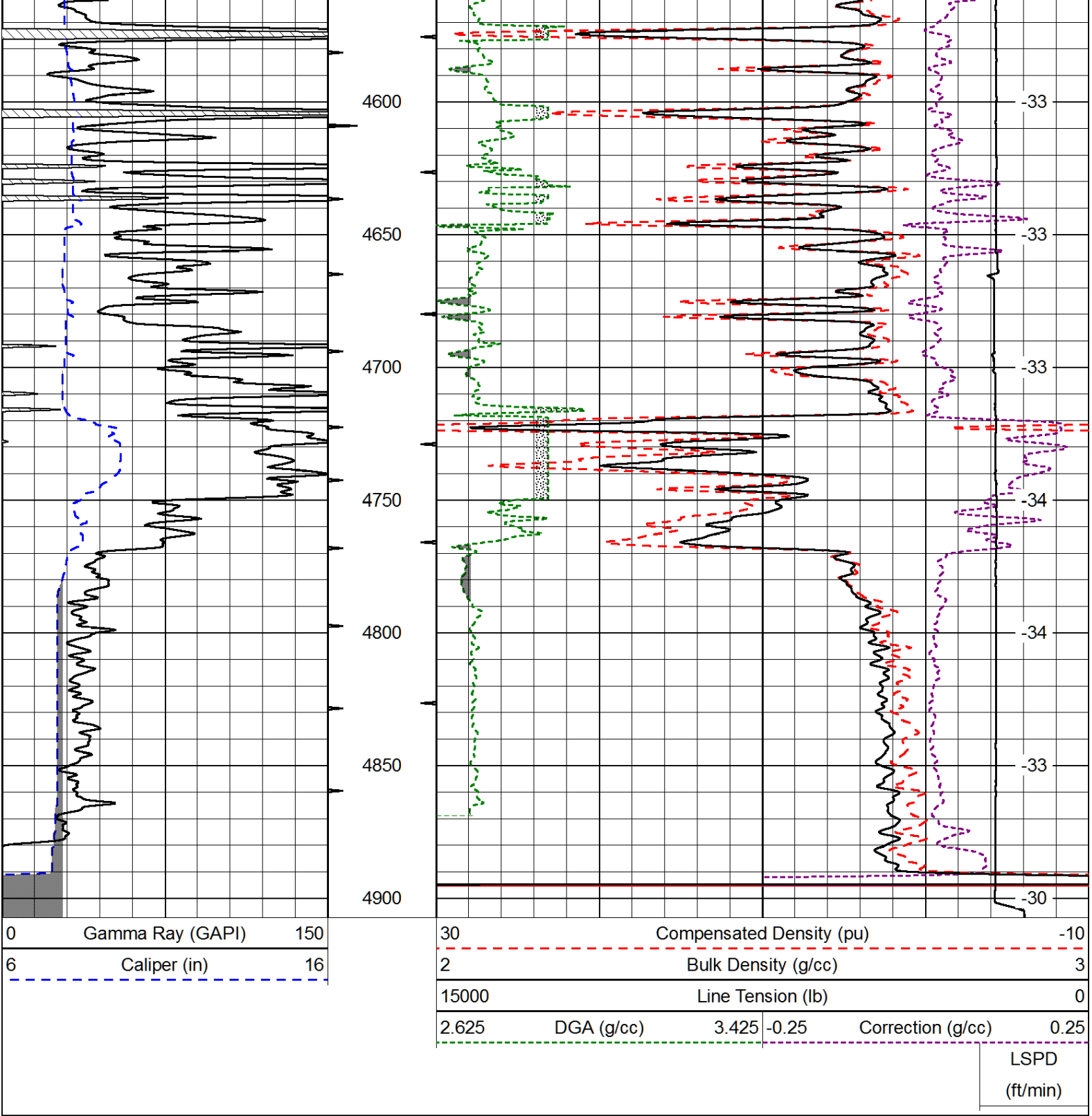
Database File: landmark_janzen_1_1hd.db
Dataset Pathname: DIL/landstk
Presentation Format: cdl
Dataset Creation: Sun Dec 22 12:56:11 2013
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25
	LSPD (ft/min)		





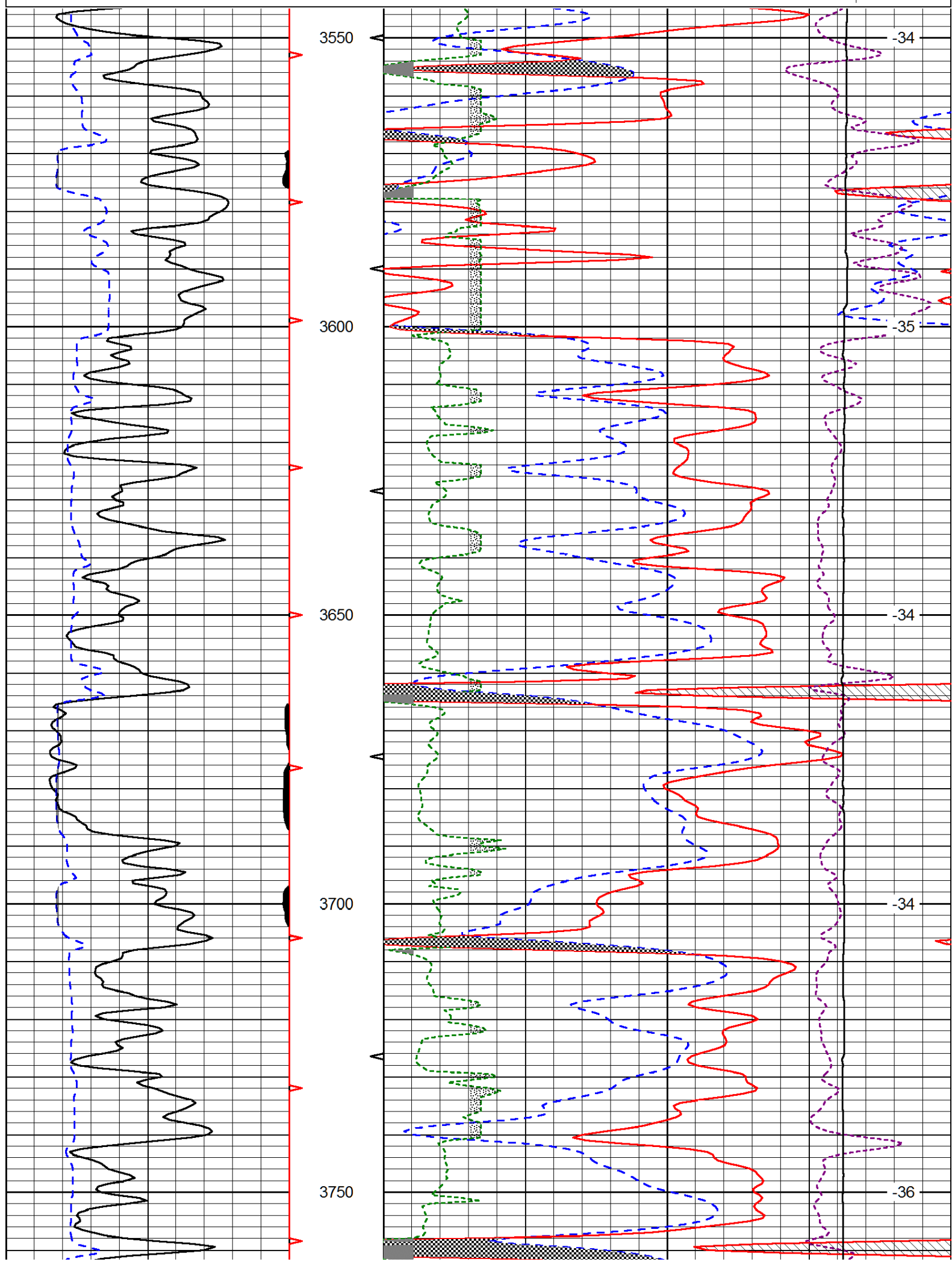


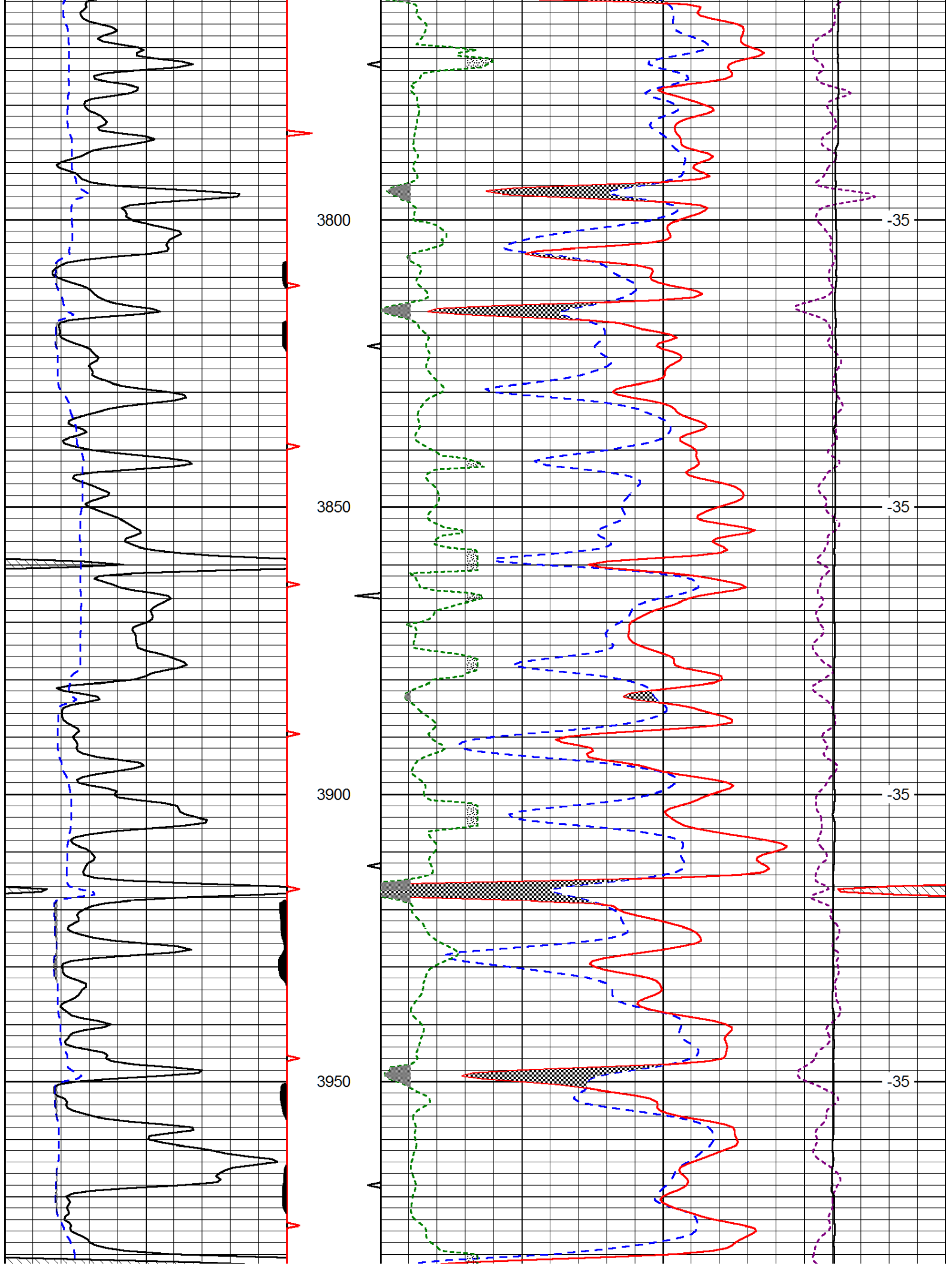
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Dataset Pathname:	DIL/landstk
Presentation Format:	cnldspec
Dataset Creation:	Sun Dec 22 12:56:11 2013
Charted by:	Depth in Feet scaled 1:240

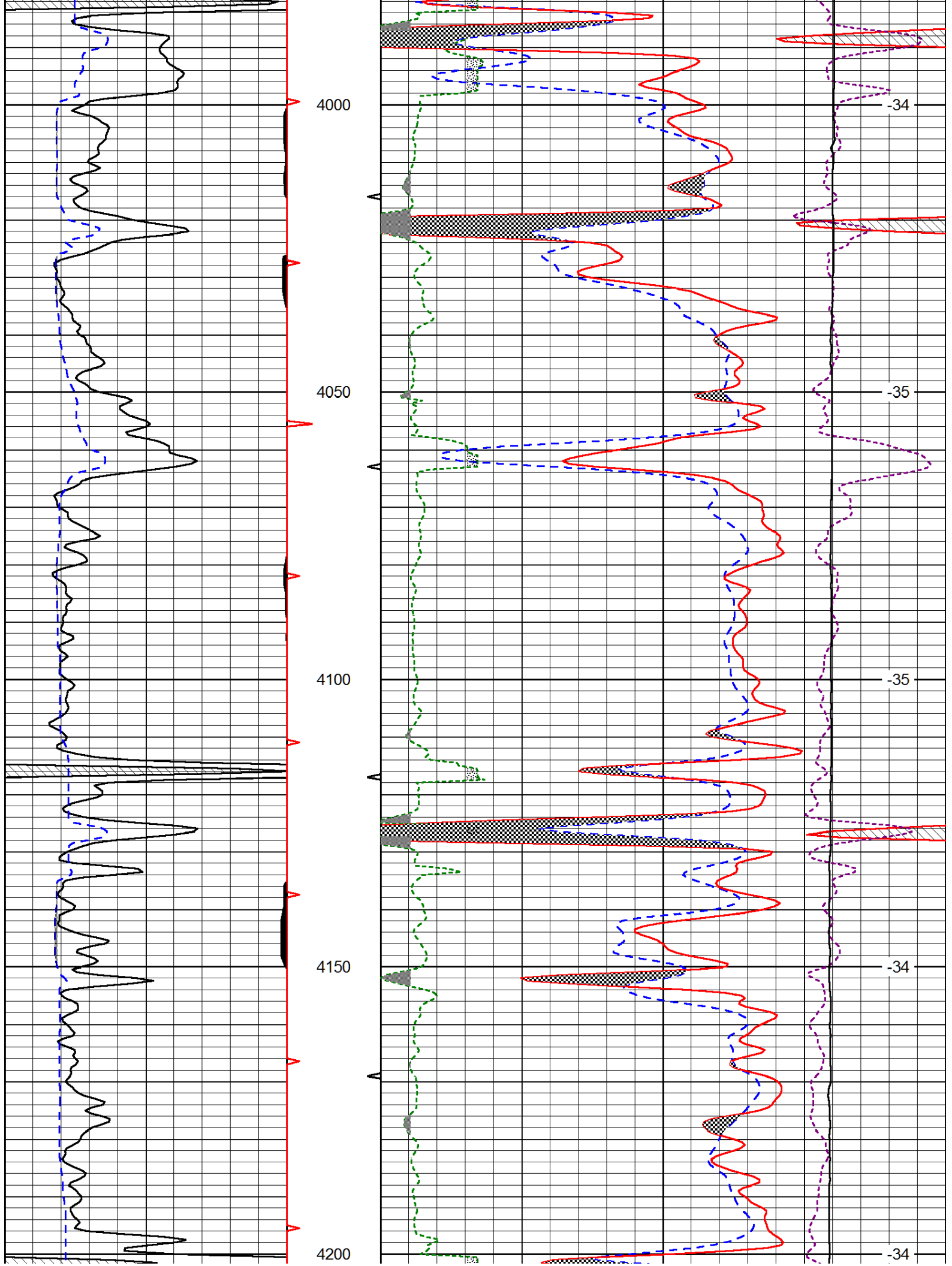
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

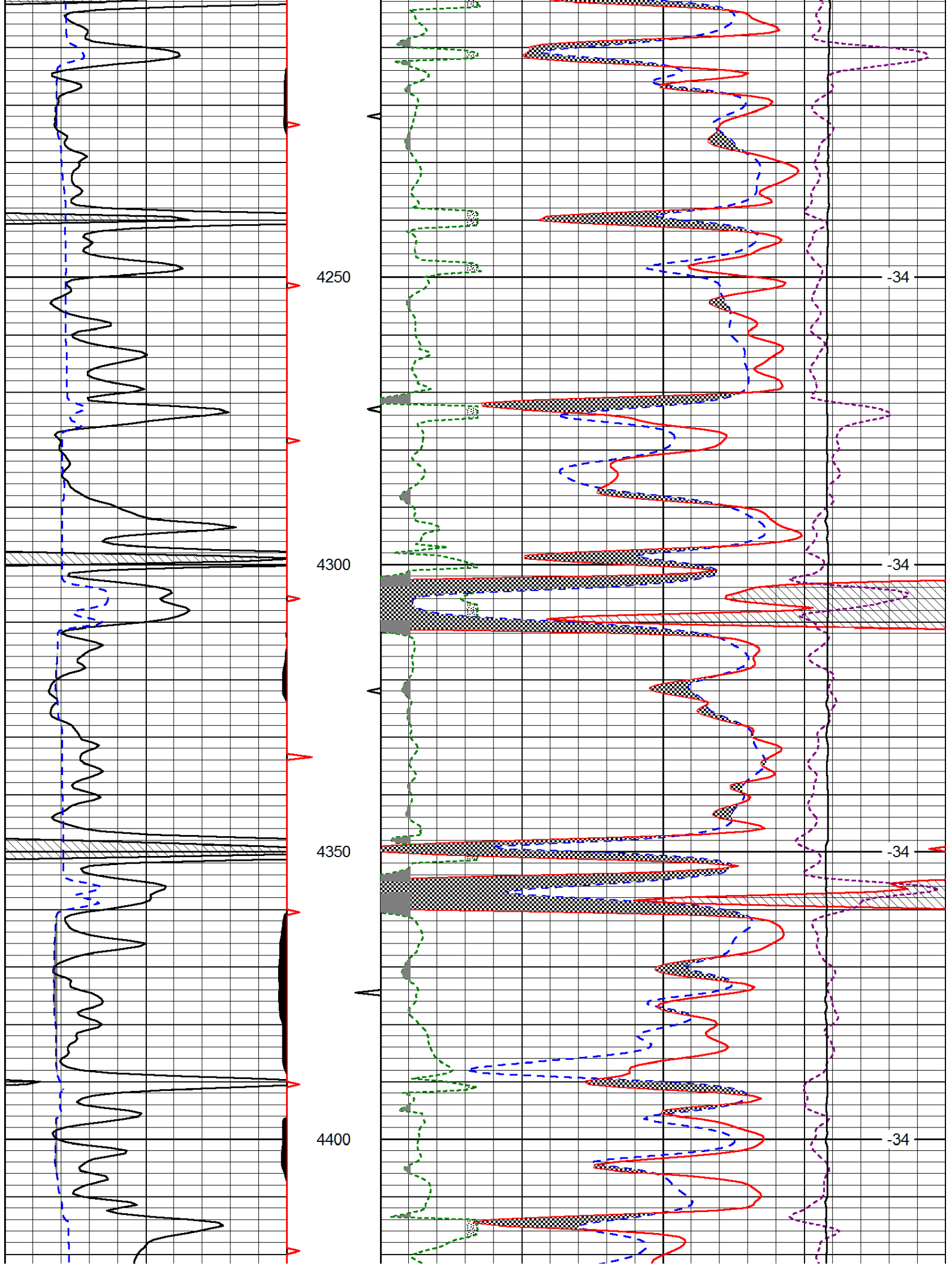
30	CNPOR (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
2.625	DGA (g/cc)	3.425 -0.25
10000	Line Tension (lb)	0

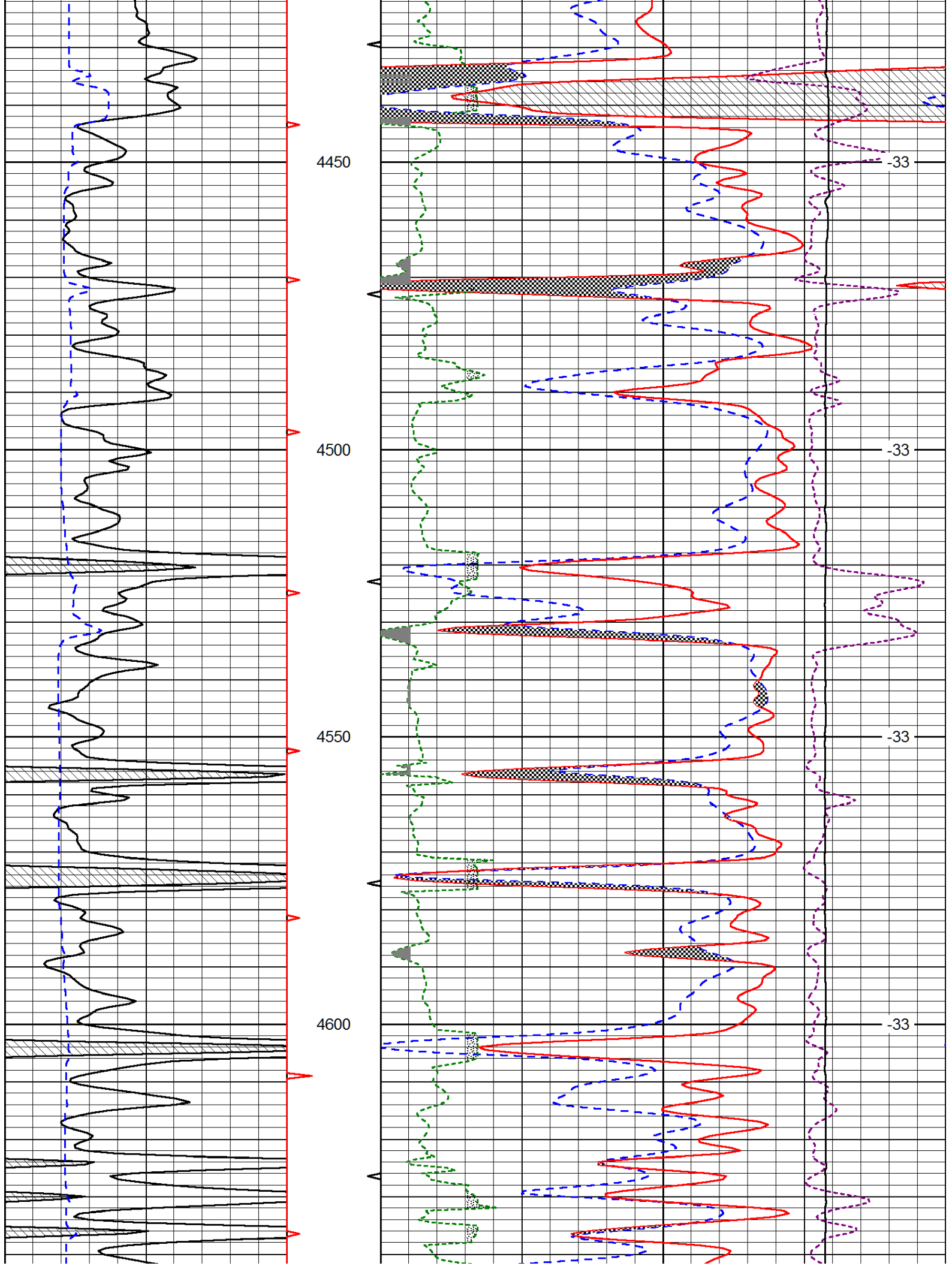
| LSPD (ft/min) |

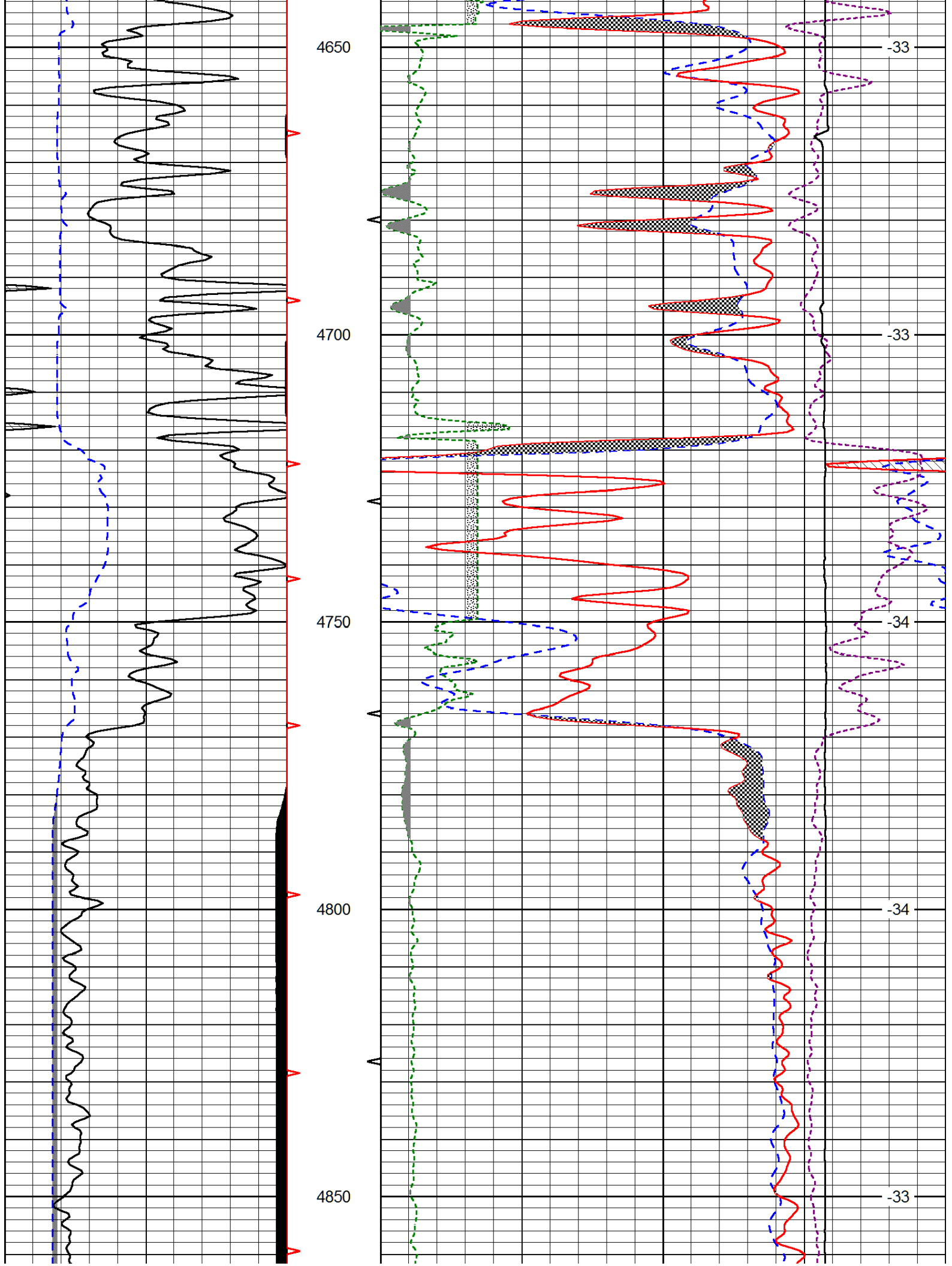


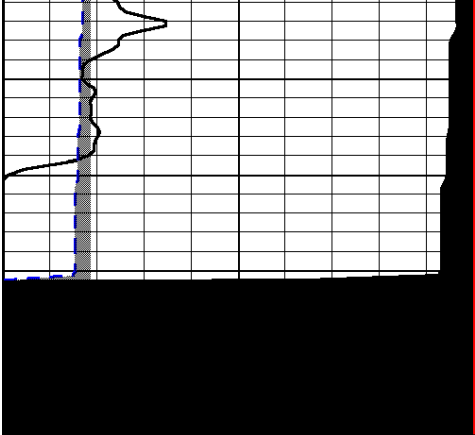






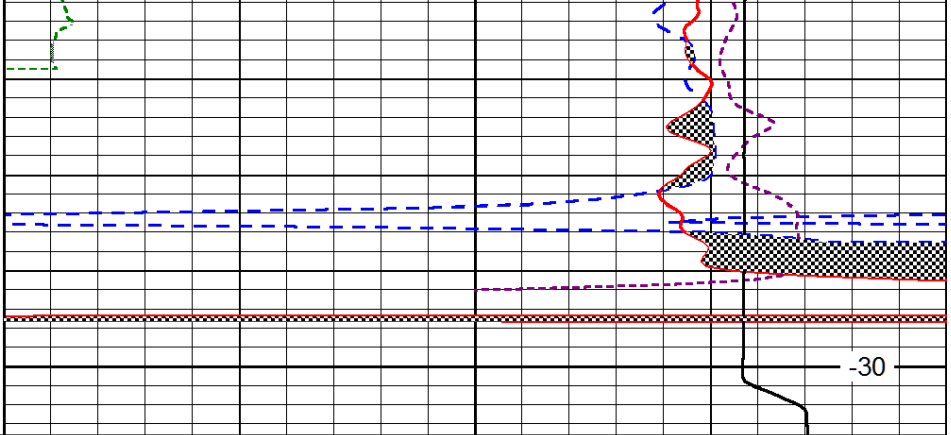






0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

4900



30		CNPOR (pu)		-10	
30		Compensated Density (2.71 ma) (pu)		-10	
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000		Line Tension (lb)		0	

LSPD

(ft/min)