



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-009-25936-00-00

Company **Bird Dog Oil, LLC**
Well **Lakin-Sieker #1-23**
Field **Lanternman**
County **Barton** State **Kansas**

Other Services
DIL
MEI/BHCS

Location
1335' FNL & 1000' FWL
Sec: 23 Twp: 19S Rge: 11W

Elevation
K.B. 1785
D.F. 1775
G.L. 1775

Permanent Datum Ground Level Elevation 1775
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 2/2/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3450

Depth Logger 3448

Bottom Logged Interval 3427

Top Logged Interval 2600

Type Fluid In Hole Chemical

Salinity, PPM CL 8500

Density 9.3

Level Full

Max. Rec. Temp. F 111

Operating Rig Time 5 Hours

Equipment -- Location 10 Days

Recorded By D. Schmidt

Witnessed By Adam Nighswonger

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
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One	12.25	00	309	8.625	23#	00	309
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Two	7.875	309	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

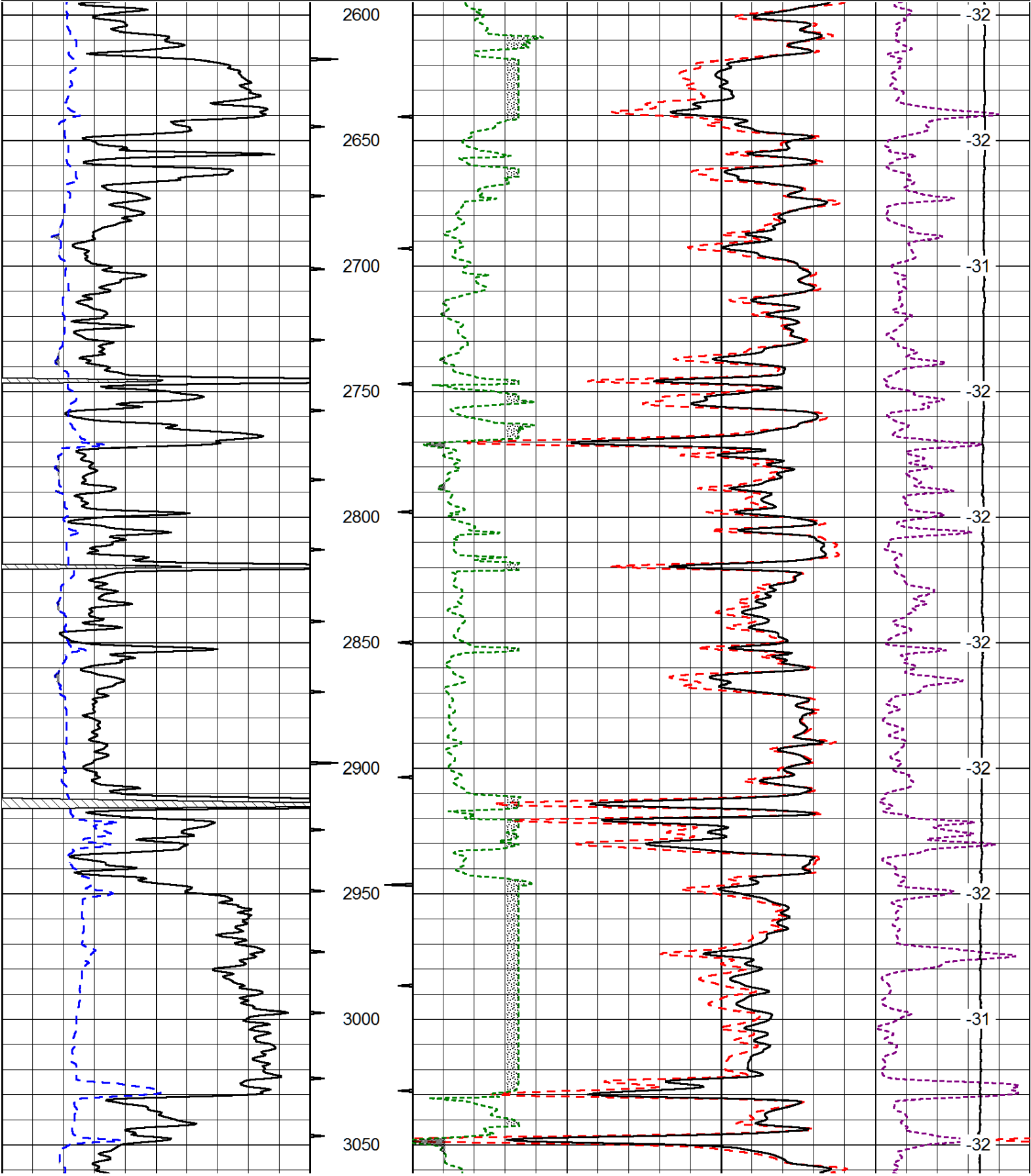
Ellinwood,
3 East to 140 Rd, 2 1/2 North,
East & North into

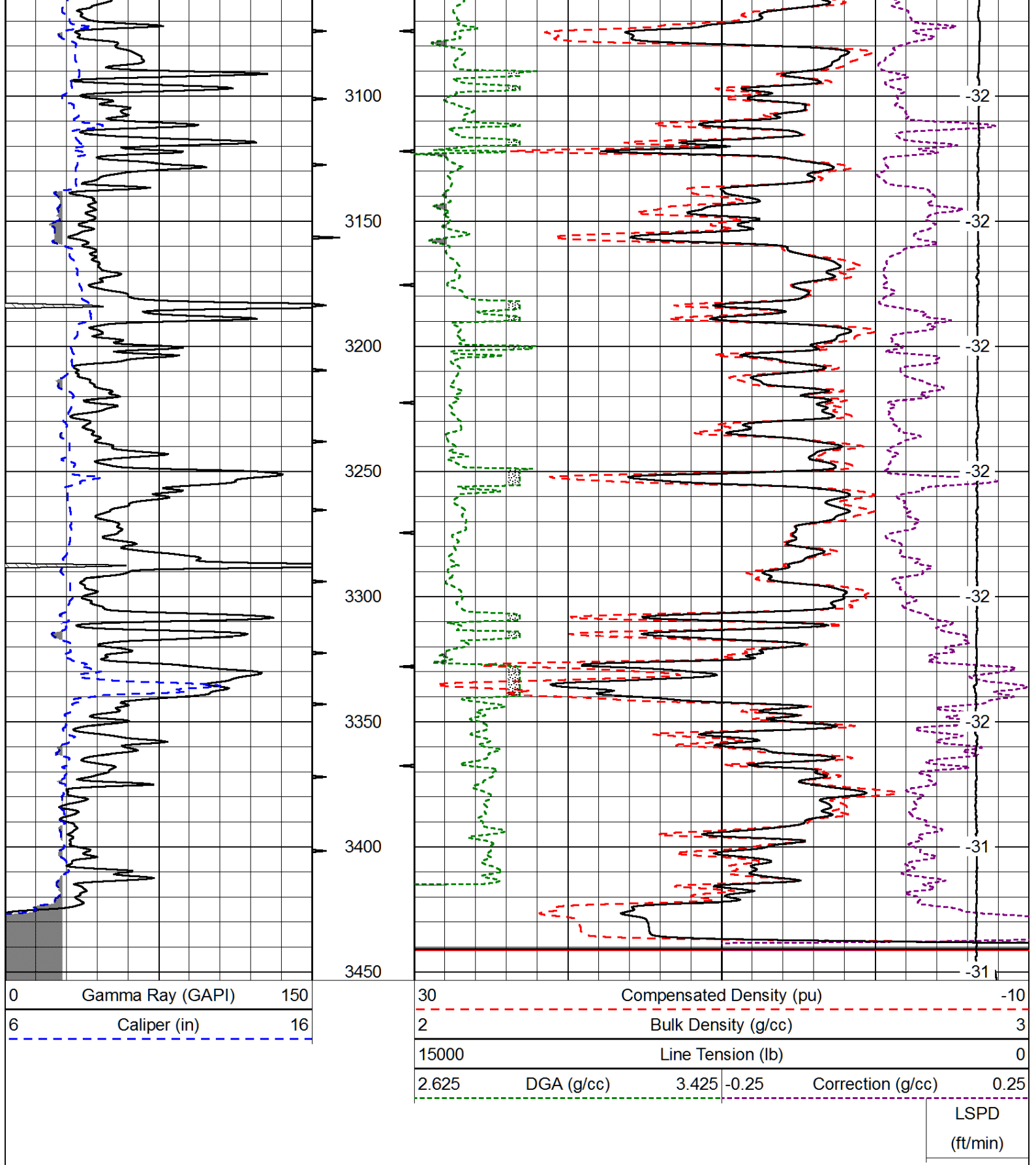
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Dataset Pathname: dil/bdstck
Presentation Format: cdl
Dataset Creation: Sun Feb 02 05:42:50 2014
Charted by: Depth in Feet scaled 1:600

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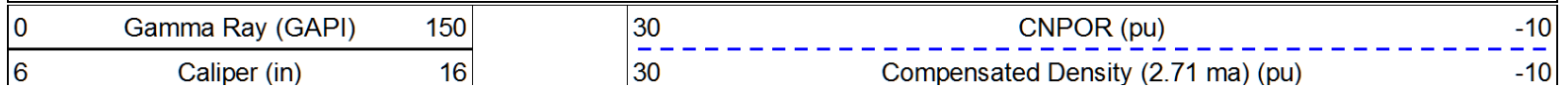
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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)





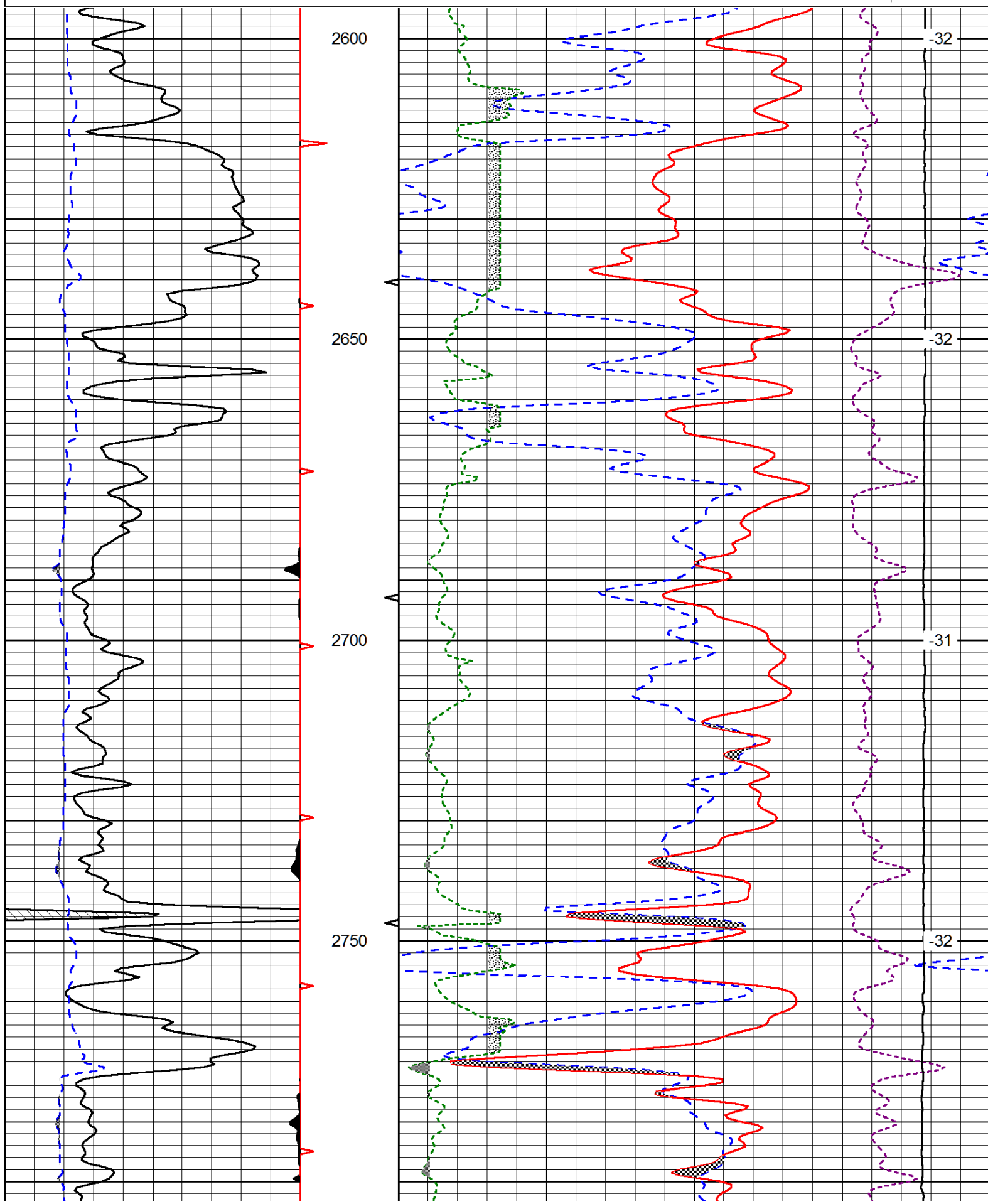
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Charted by: Depth in Feet scaled 1:240

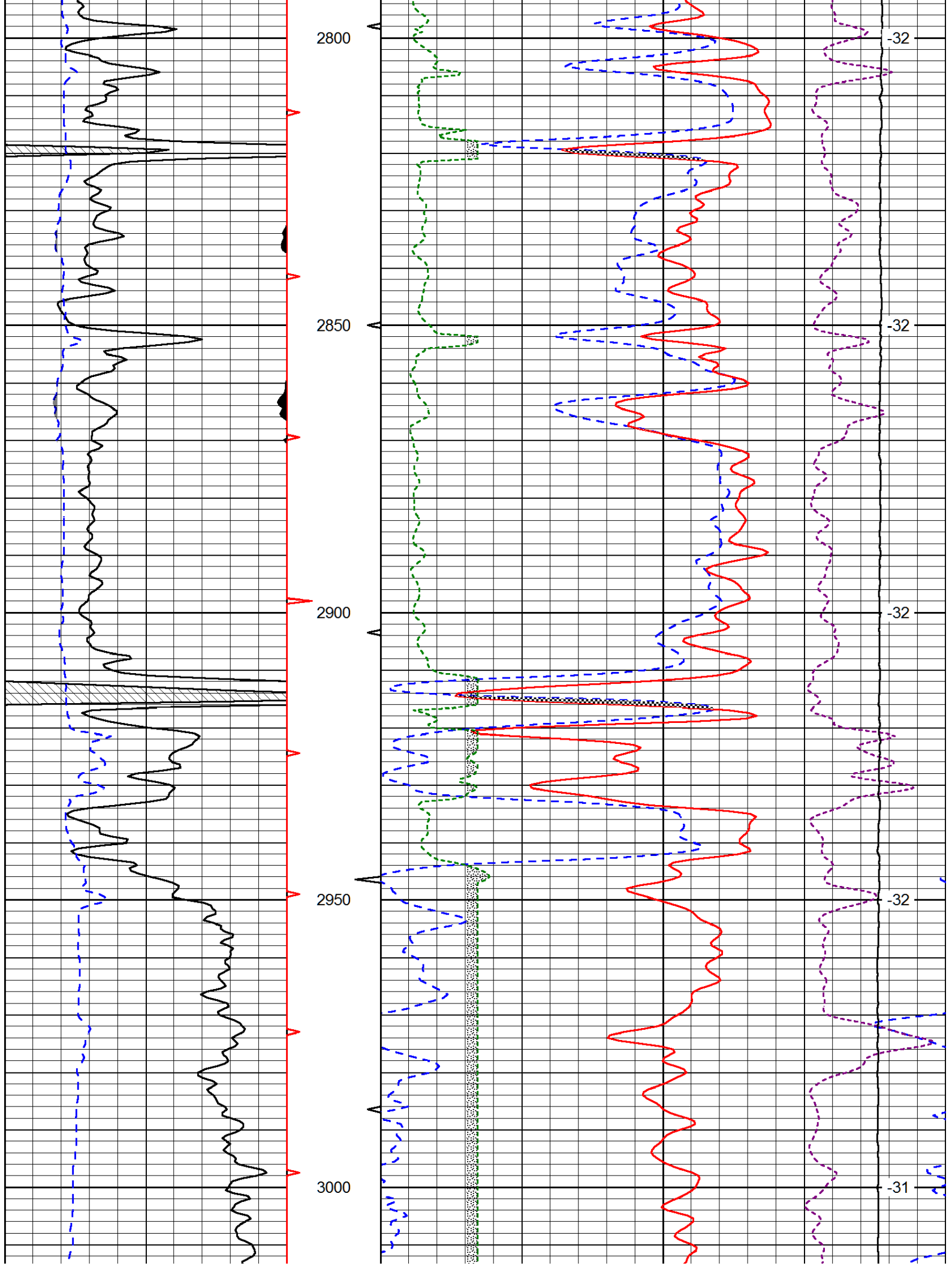


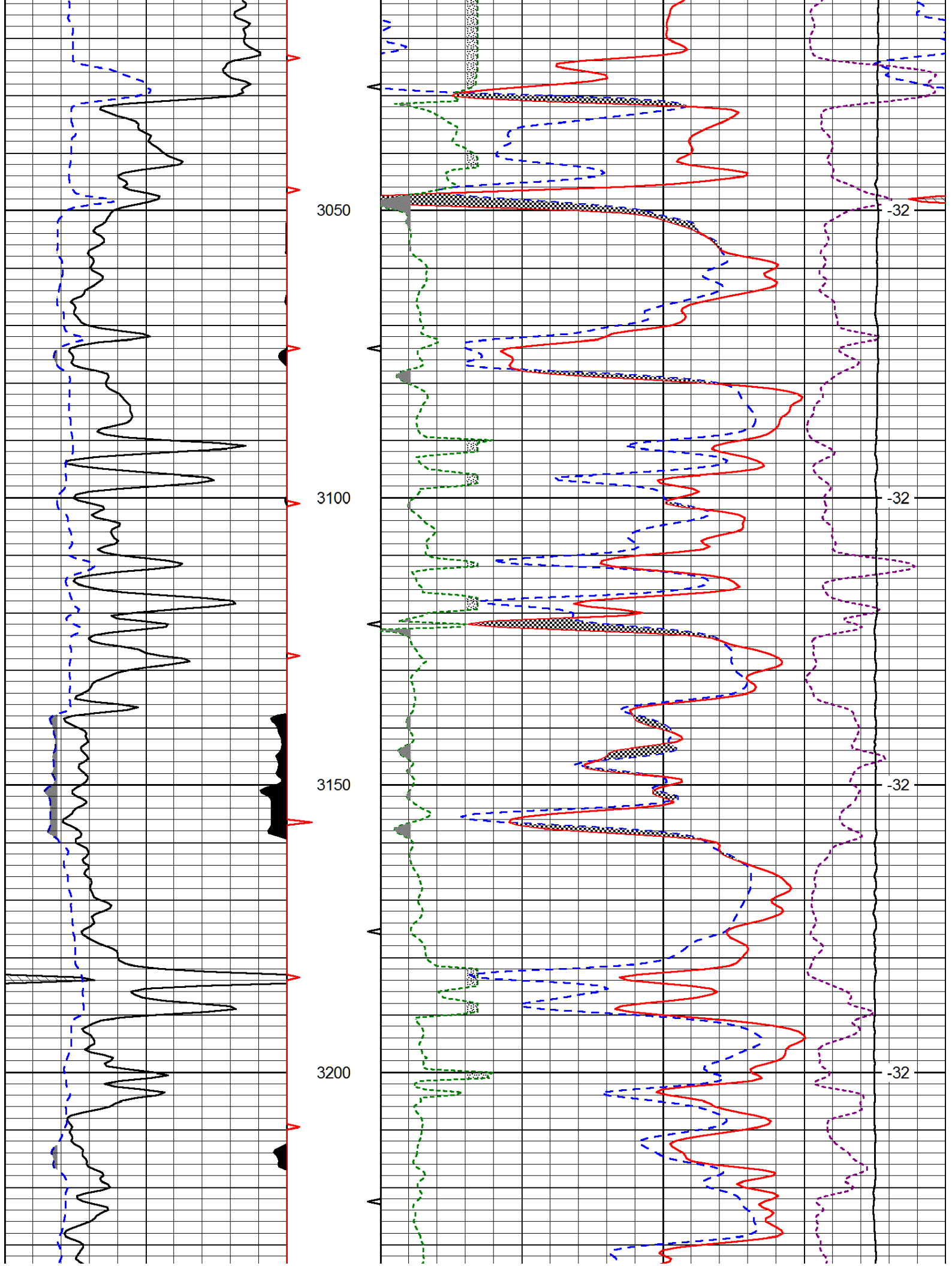
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0

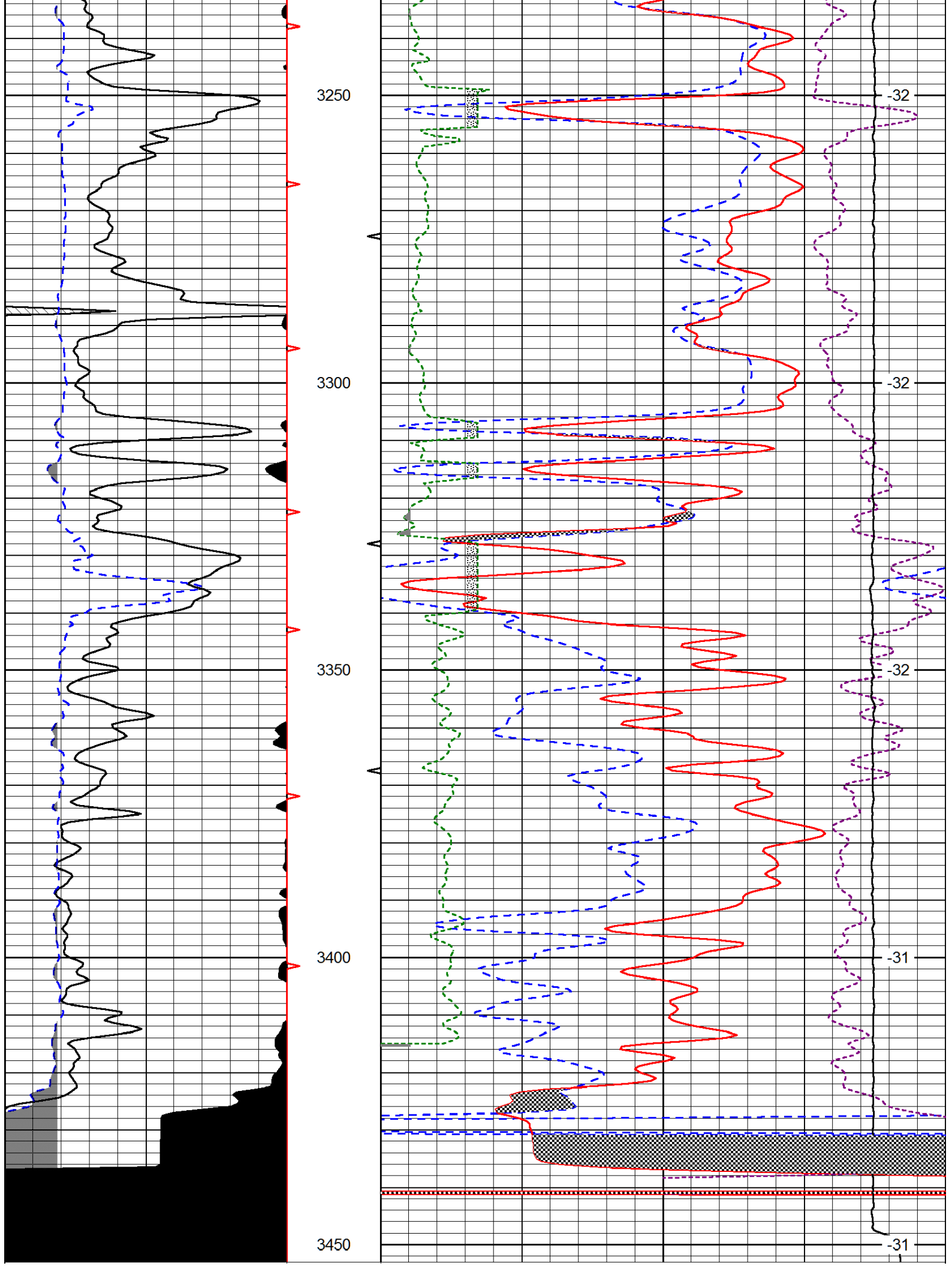
LSPD

(ft/min)









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	Correction (g/cc)	0.25
10000		Line Tension (lb)		0	
				LSPD (ft/min)	