



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-051-26,613-00-00

Company Messenger Petroleum, Inc.

Well Karlin Trust No.1

Field Wildcat

County Ellis

State Kansas

Location 2540' FSL & 885' FEL

Other Services
DIL

Sec: 17 Twp: 13S Rge: 18W

Permanent Datum Ground Level Elevation 2082
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 10/8/2013

Run Number One

Type Log CNL / CDL

Depth Driller 3797

Depth Logger 3821

Bottom Logged Interval 3800

Top Logged Interval 2800

Type Fluid In Hole Chemical

Salinity, PPM CL 1,200

Density 9.3

Level Full

Max. Rec. Temp. F 114

Operating Rig Time 3 Hours

Equipment -- Location 17 Days

Recorded By C. Desaire

Witnessed By Jeff Burk

Eli Felts

Keaton Jones

Borehole Record

Casing Record

<<< Fold Here >>>

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

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(785) 625-3858

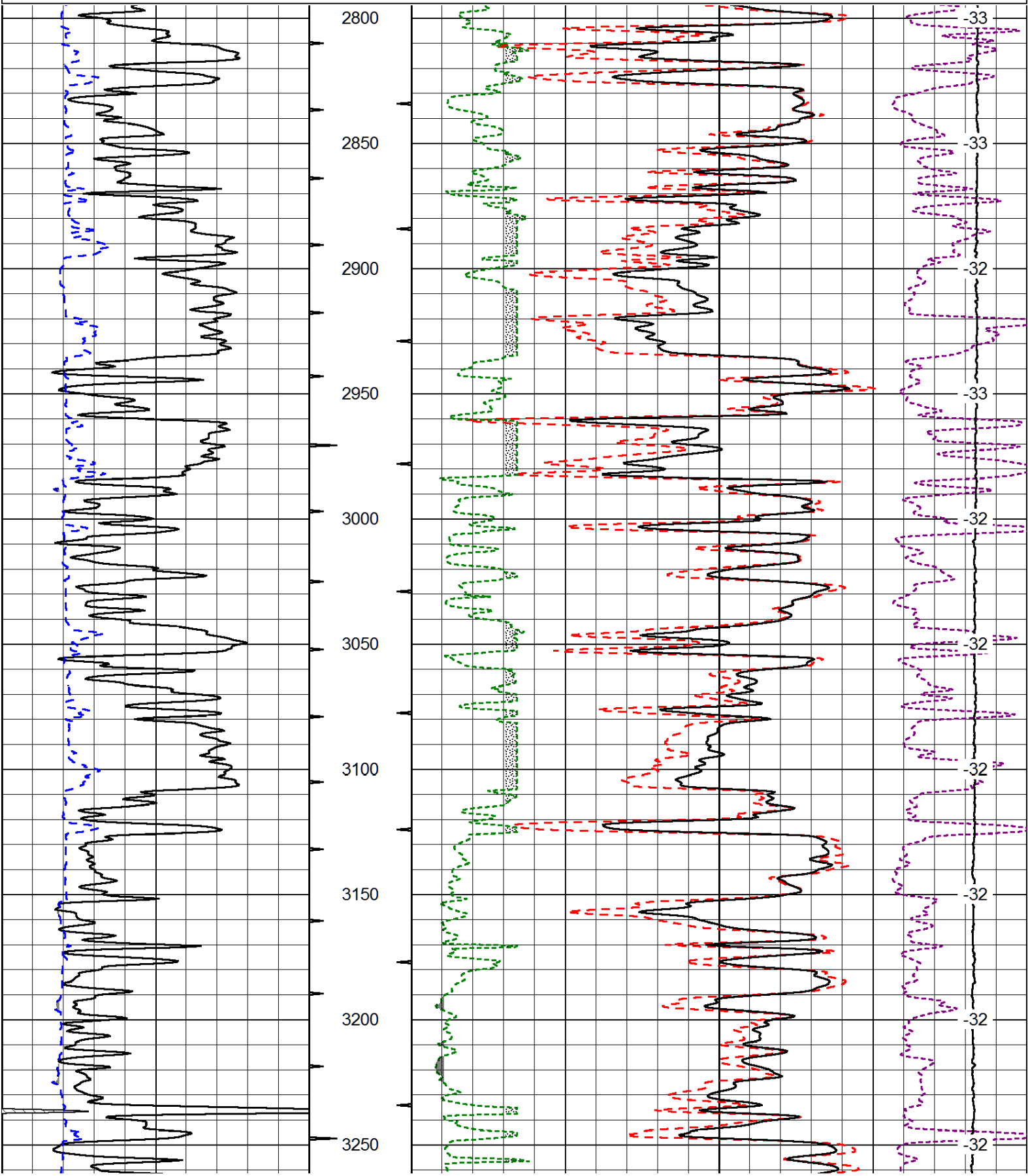
Hays KS, 1/2 N of Landfill, W Into

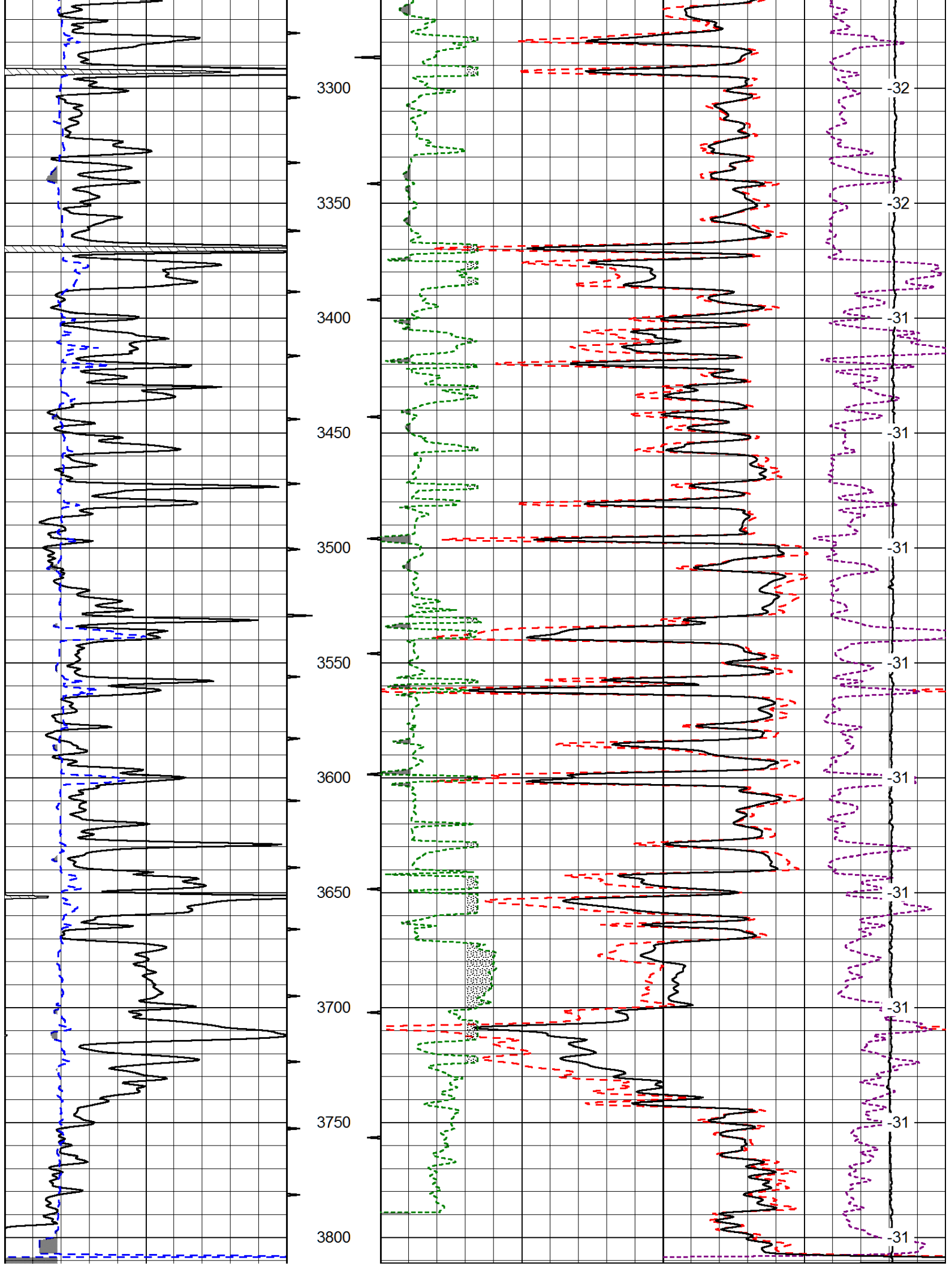
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Dataset Pathname: dil/messstk
Presentation Format: cdl
Dataset Creation: Tue Oct 08 01:11:56 2013
Charted by: Depth in Feet scaled 1:600

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)





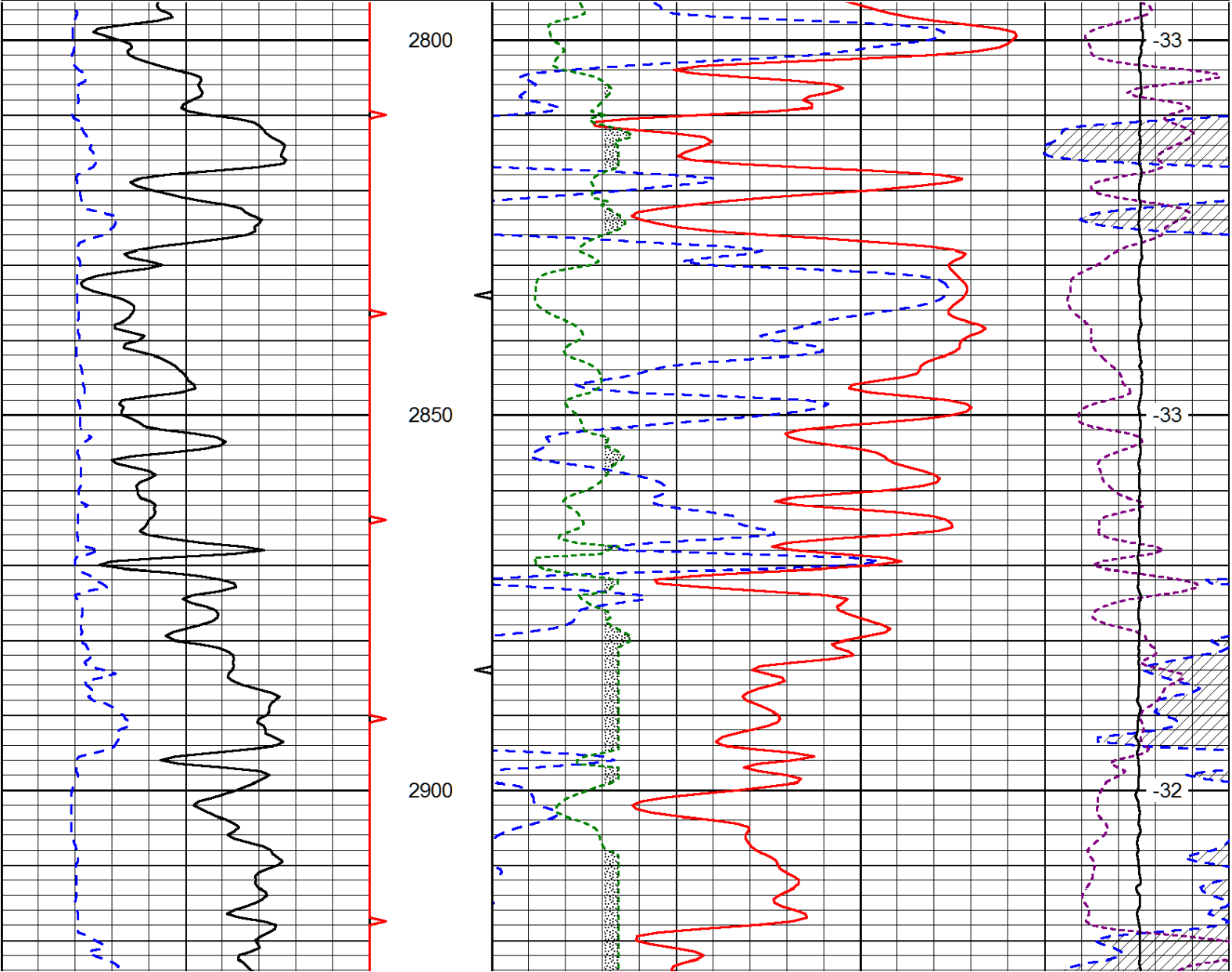
0	Gamma Ray (GAPI)	150	30	Compensated Density (pu)			-10
6	Caliper (in)	16	2	Bulk Density (g/cc)			3
			15000	Line Tension (lb)			0
			2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc) 0.25
							LSPD (ft/min)

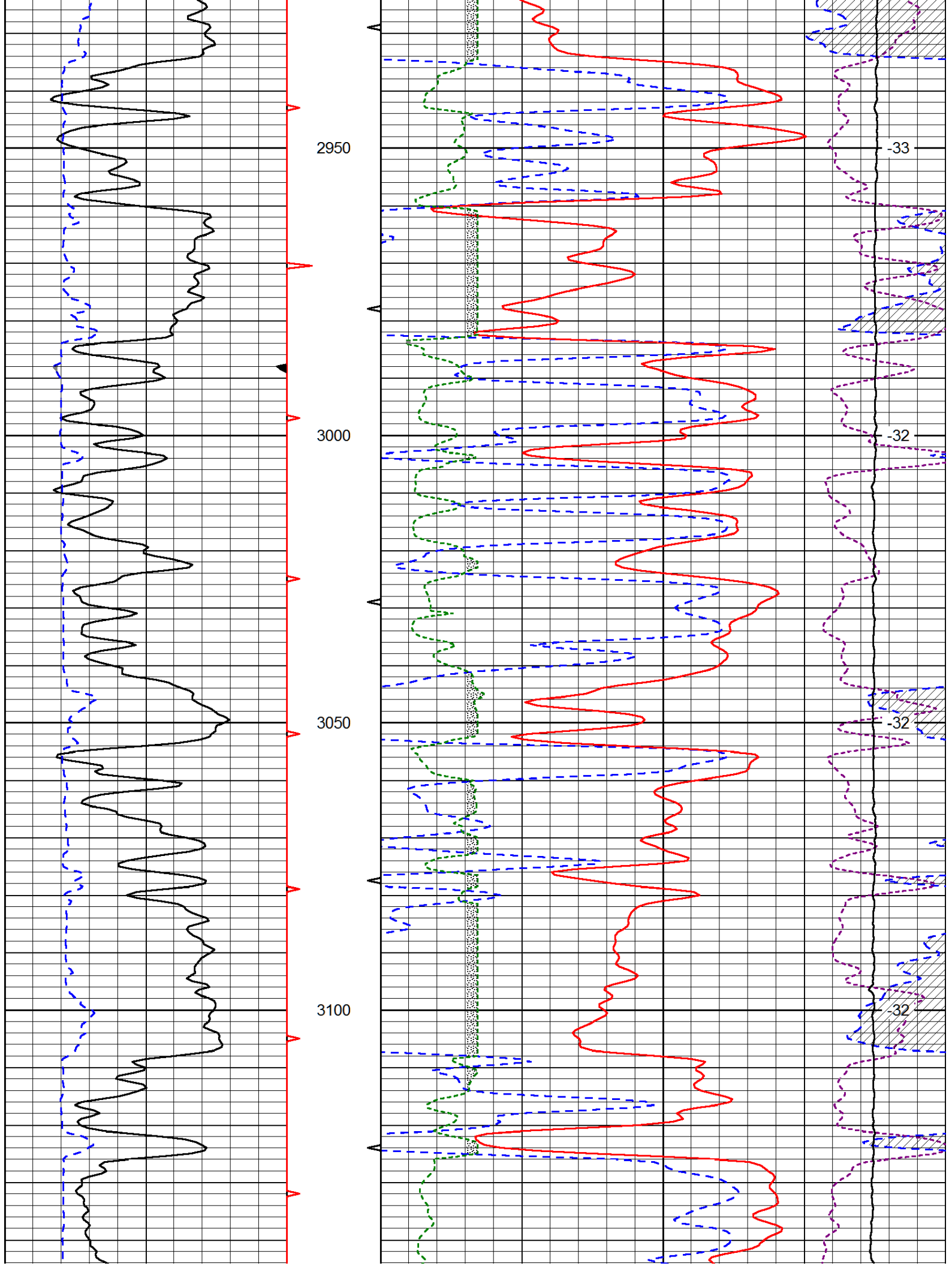
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Dataset Pathname:		dil/messstk	
Presentation Format:		cndlspec	
Dataset Creation:		Tue Oct 08 01:11:56 2013	
Charted by:		Depth in Feet scaled 1:240	

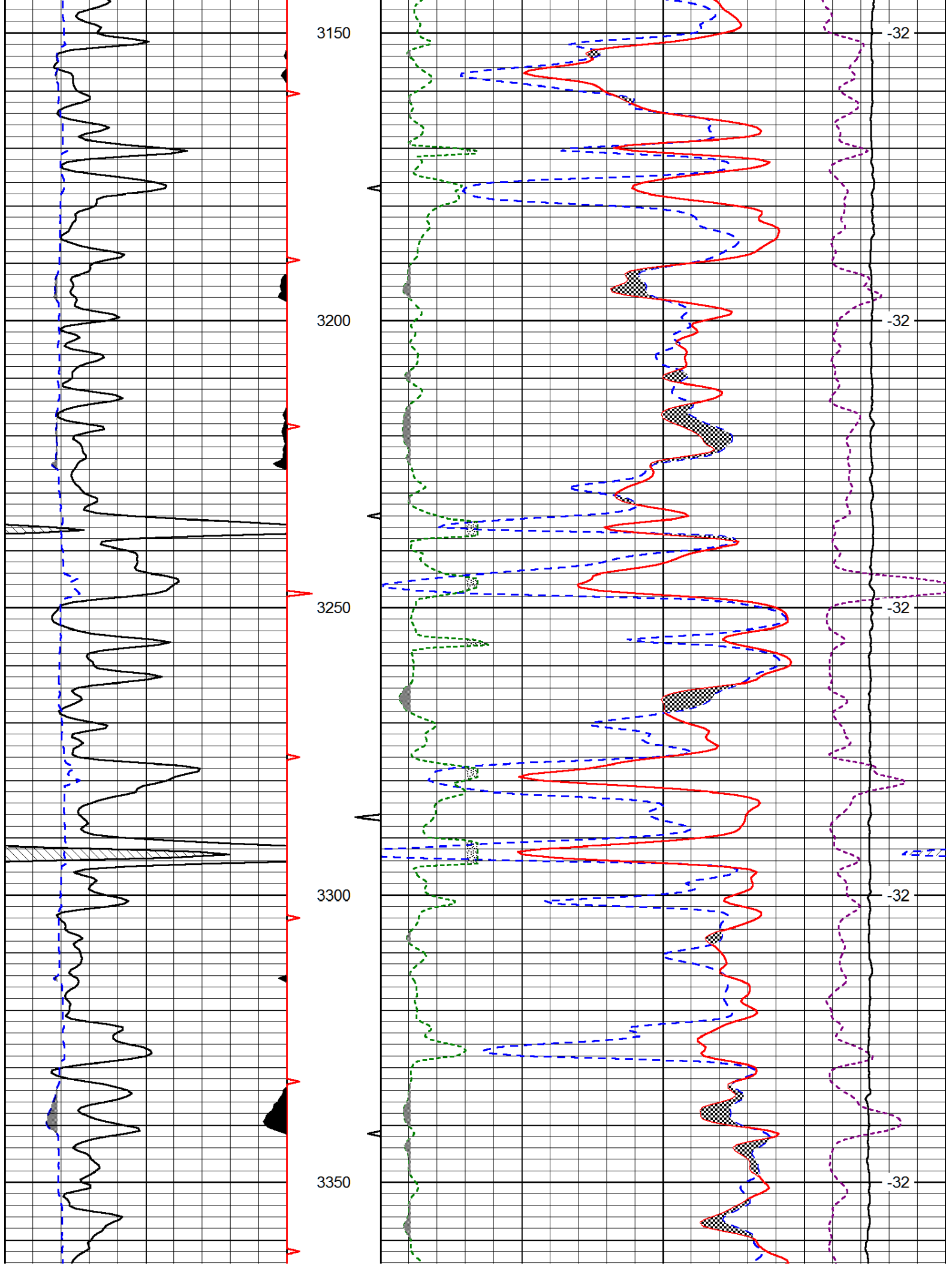
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

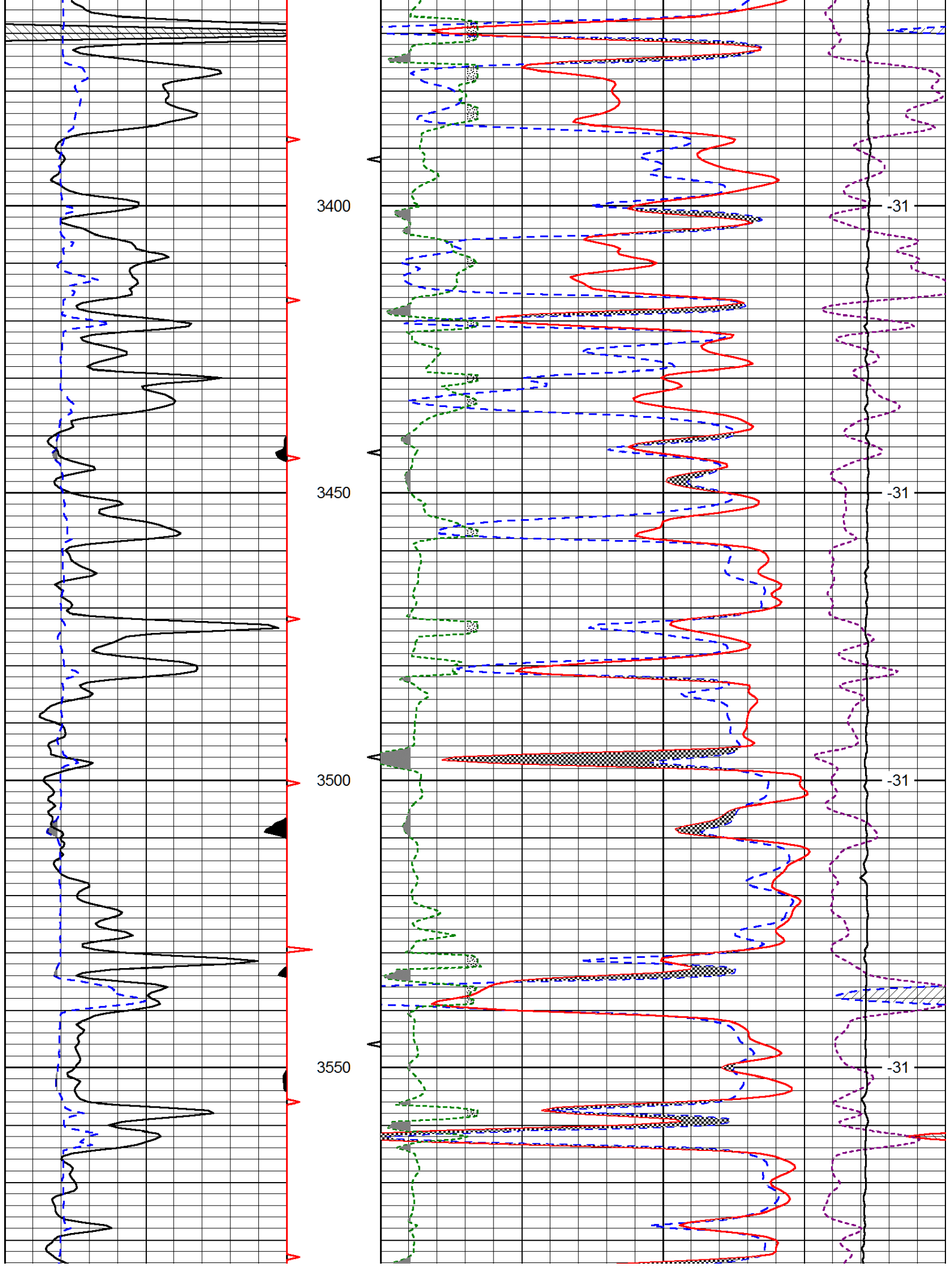
30	CNLS (pu)		-10
30	Compensated Density (2.71 ma) (pu)		-10
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25
10000	Line Tension (lb)		0

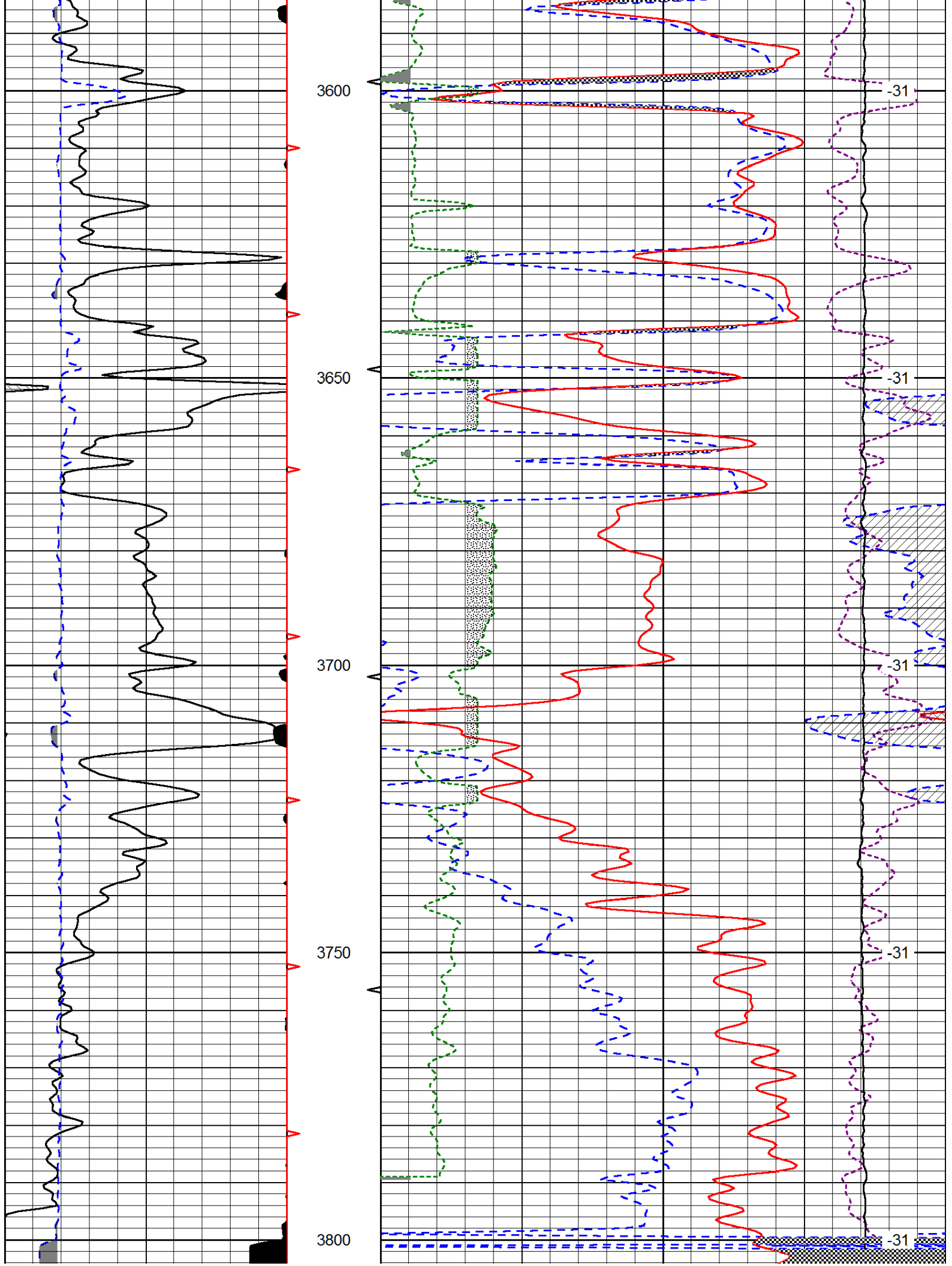
LSPD (ft/min)

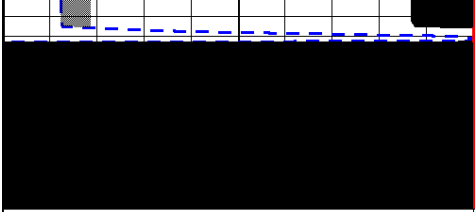












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10000	Line Tension (lb)				0

LSPD
(ft/min)