



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-135-25854-00-00

Company Pickrell Drilling Company, Inc.

Well Starrett B #4

Field Start

County Ness

State Kansas

Location

2310' FNL & 1320' FEL

Other Services
DIL

Sec: 12 Twp: 17S Rge: 21W

Permanent Datum Ground Level Elevation 2165

Log Measured From Kelly Bushing 6 Ft. Above Perm. Datum

K.B. 2171
D.F.
G.L. 2165

Date 3/11/2015

Run Number One

Type Log CNL / CDL

Depth Driller 4140

Depth Logger 4139

Bottom Logged Interval 4118

Top Logged Interval 3100

Type Fluid In Hole Chemical

Salinity, PPM CL 3900

Density 9.35

Level Full

Max. Rec. Temp. F 117

Operating Rig Time 2 Hours

Equipment -- Location 15 Hays

Recorded By D.Kerr

Witnessed By Aaron Young

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
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One	12.25	00	407	8.625	23#	00	407
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Two	7.875	407	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 Pioneer Energy Services
785.625.3858

McCracken KS, 3/4 West on Ash Ave.,
1/4 North, 1/4 West, North Into

Database File pickrell_starret_b_4hd.db

Dataset Pathname DIL/pick2

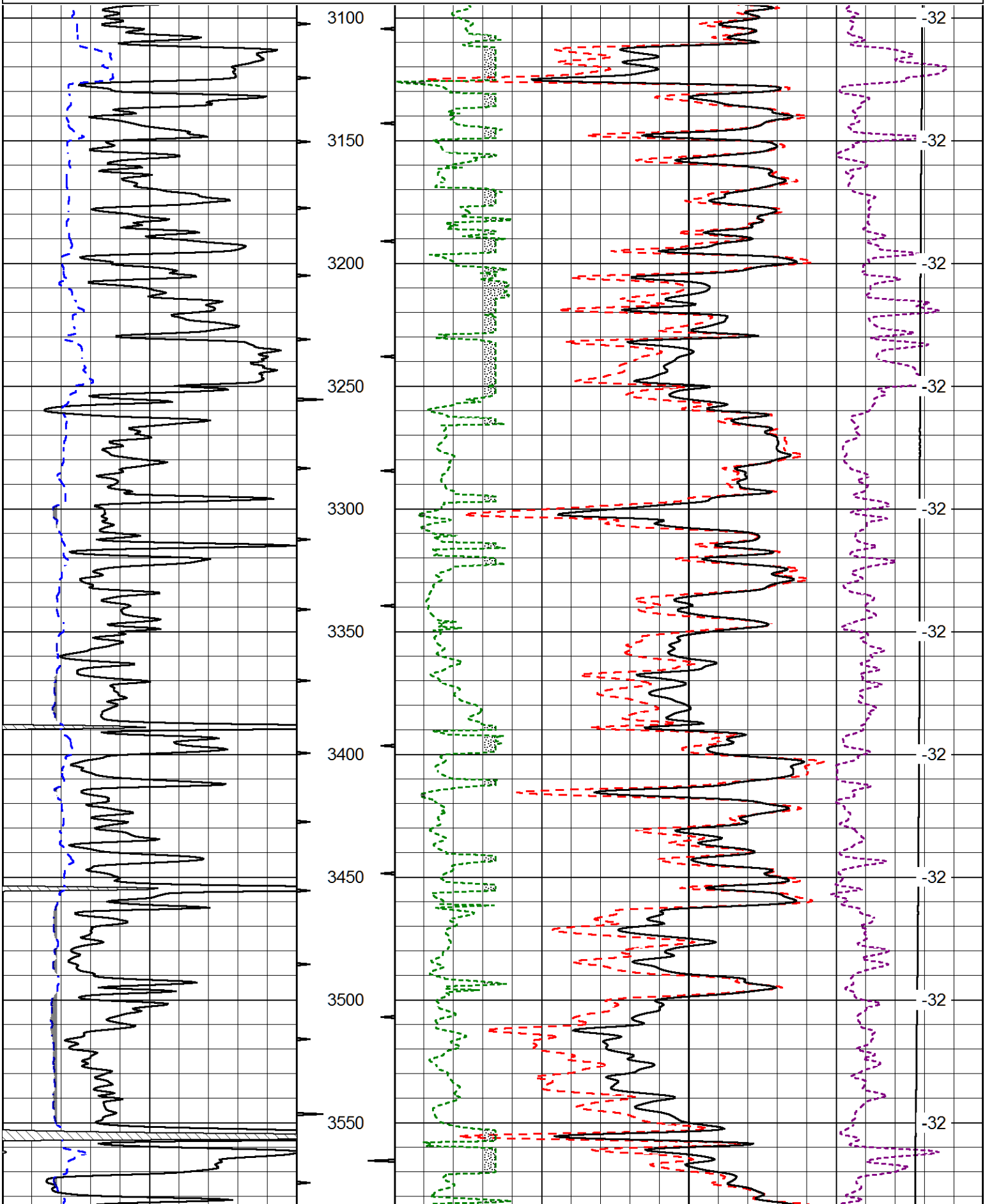
Presentation Format cdl

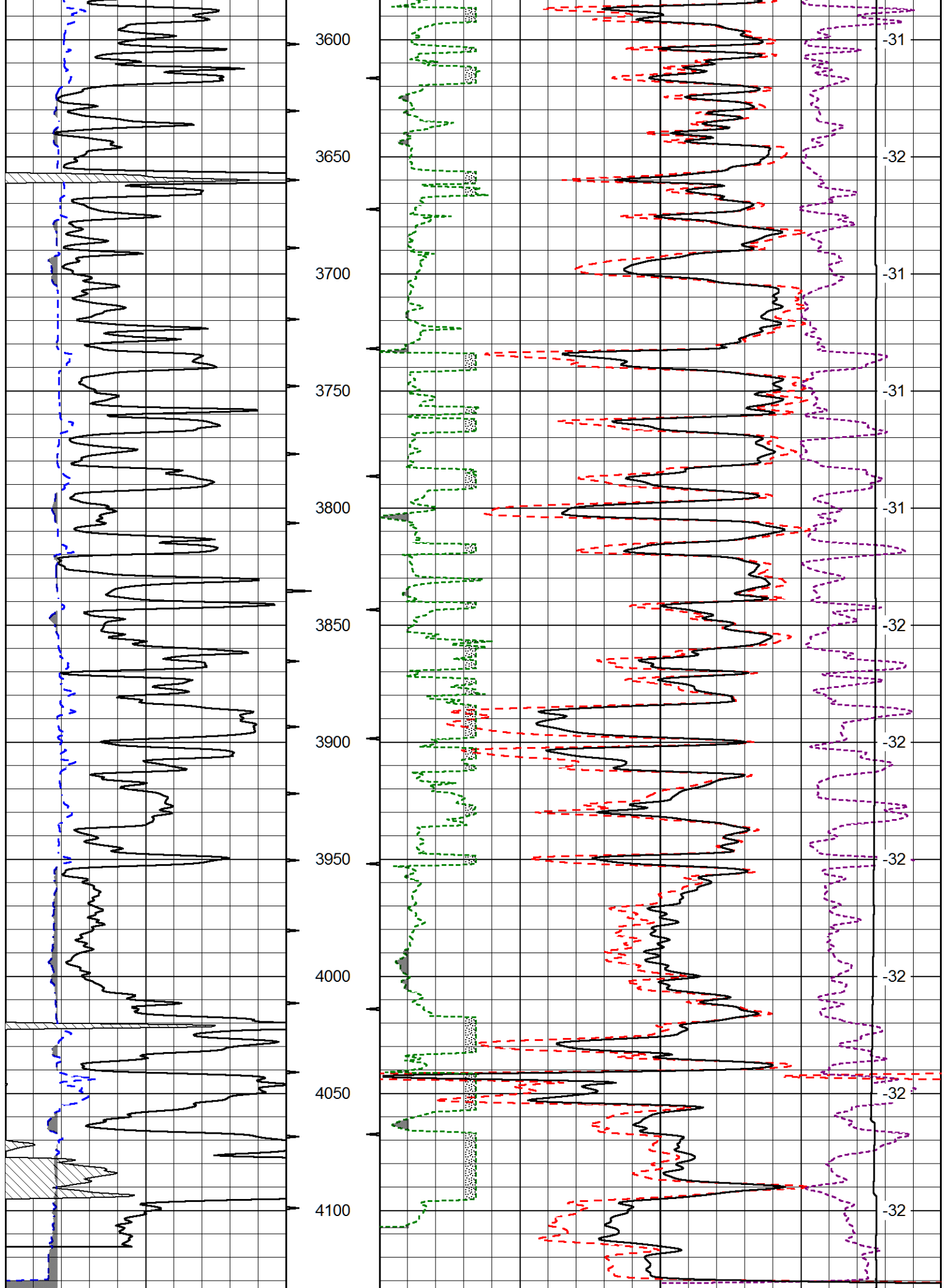
Dataset Creation Wed Mar 11 02:50:50 2015

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





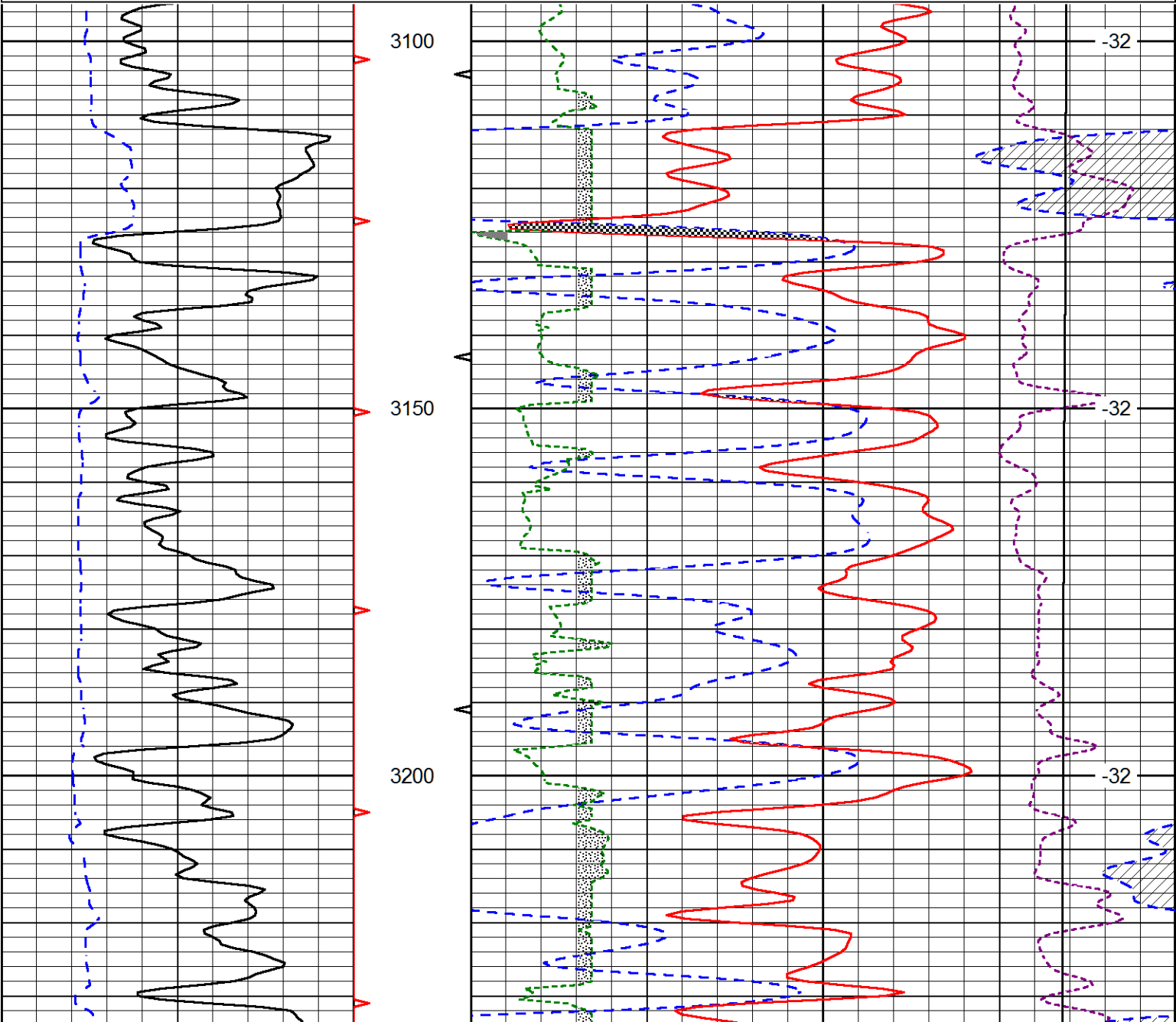
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6	Caliper (GAPI)	16

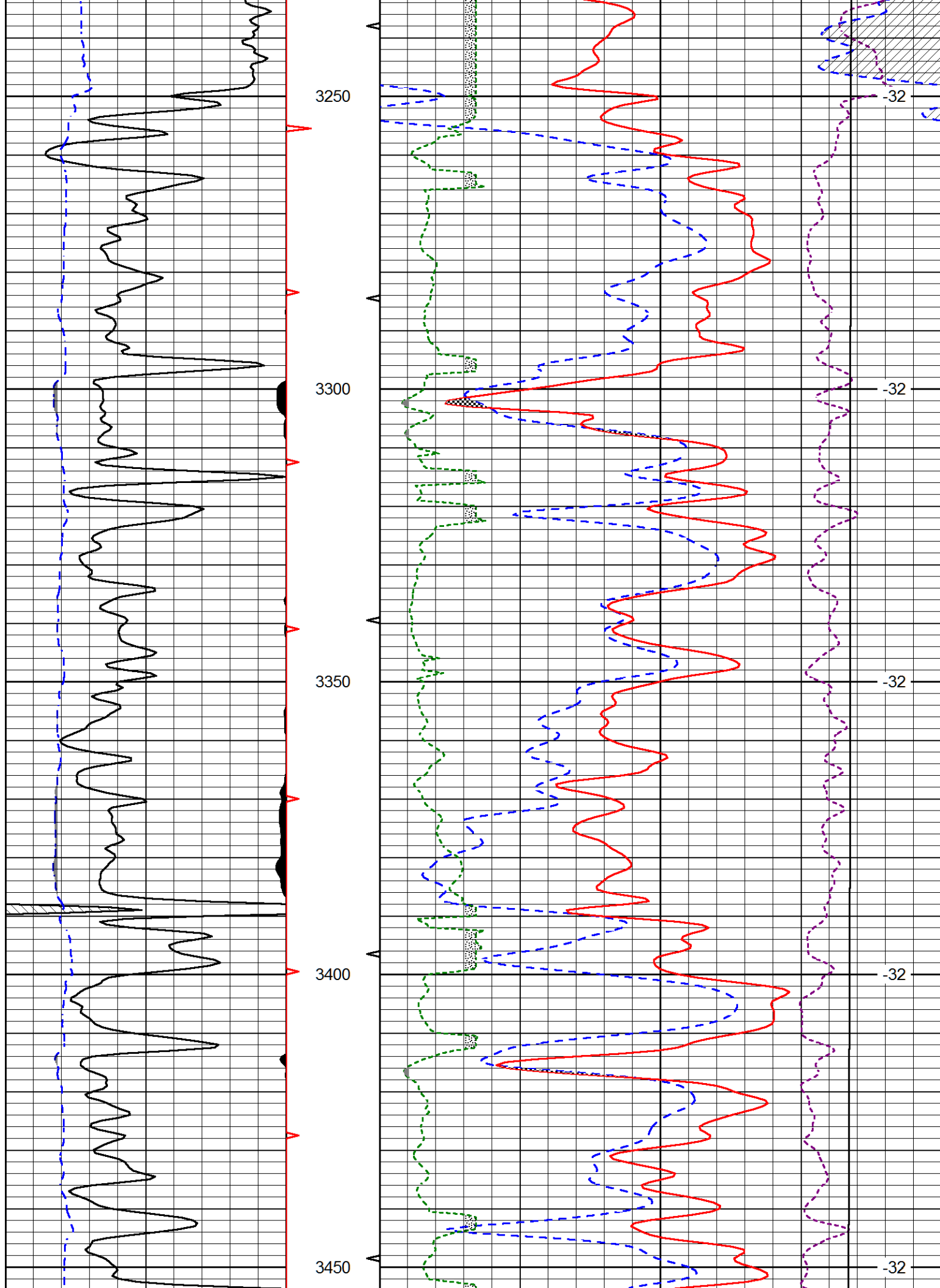
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2	Bulk Density				3
15000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
LSPD					

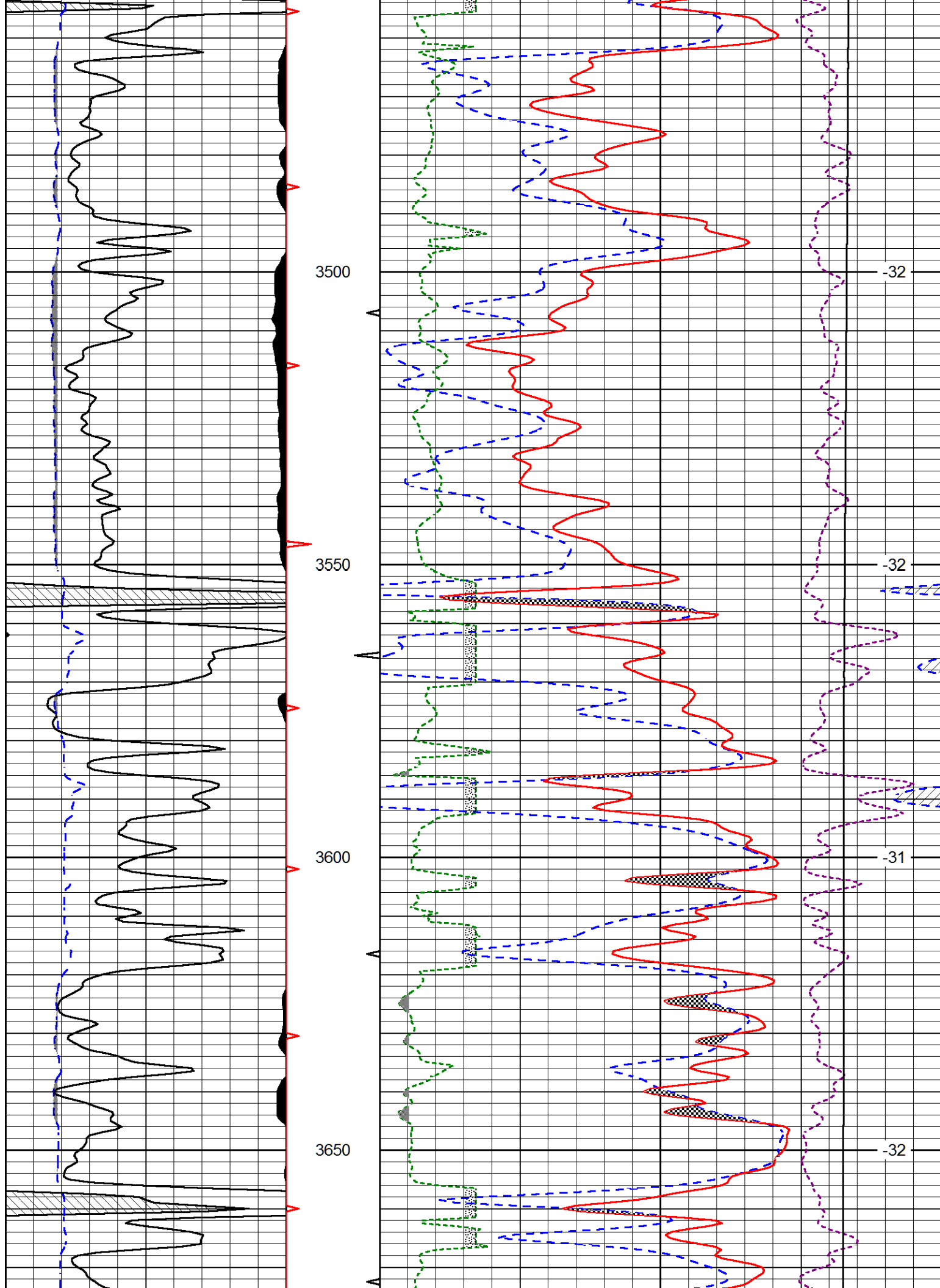
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Dataset Pathname	DIL/pick2
Presentation Format	cnlspec
Dataset Creation	Wed Mar 11 02:50:50 2015
Charted by	Depth in Feet scaled 1:240

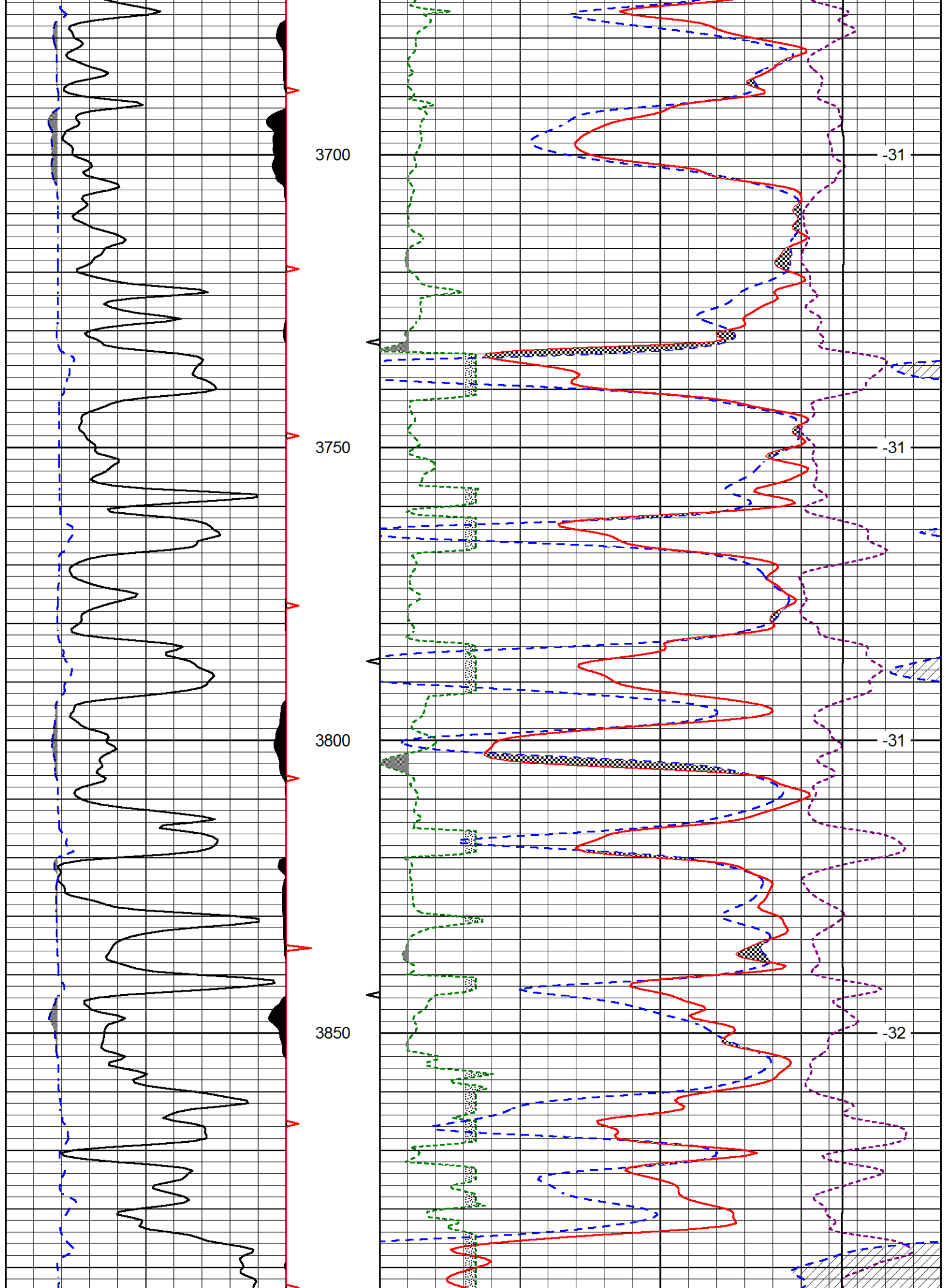
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6	Caliper (GAPI)	16

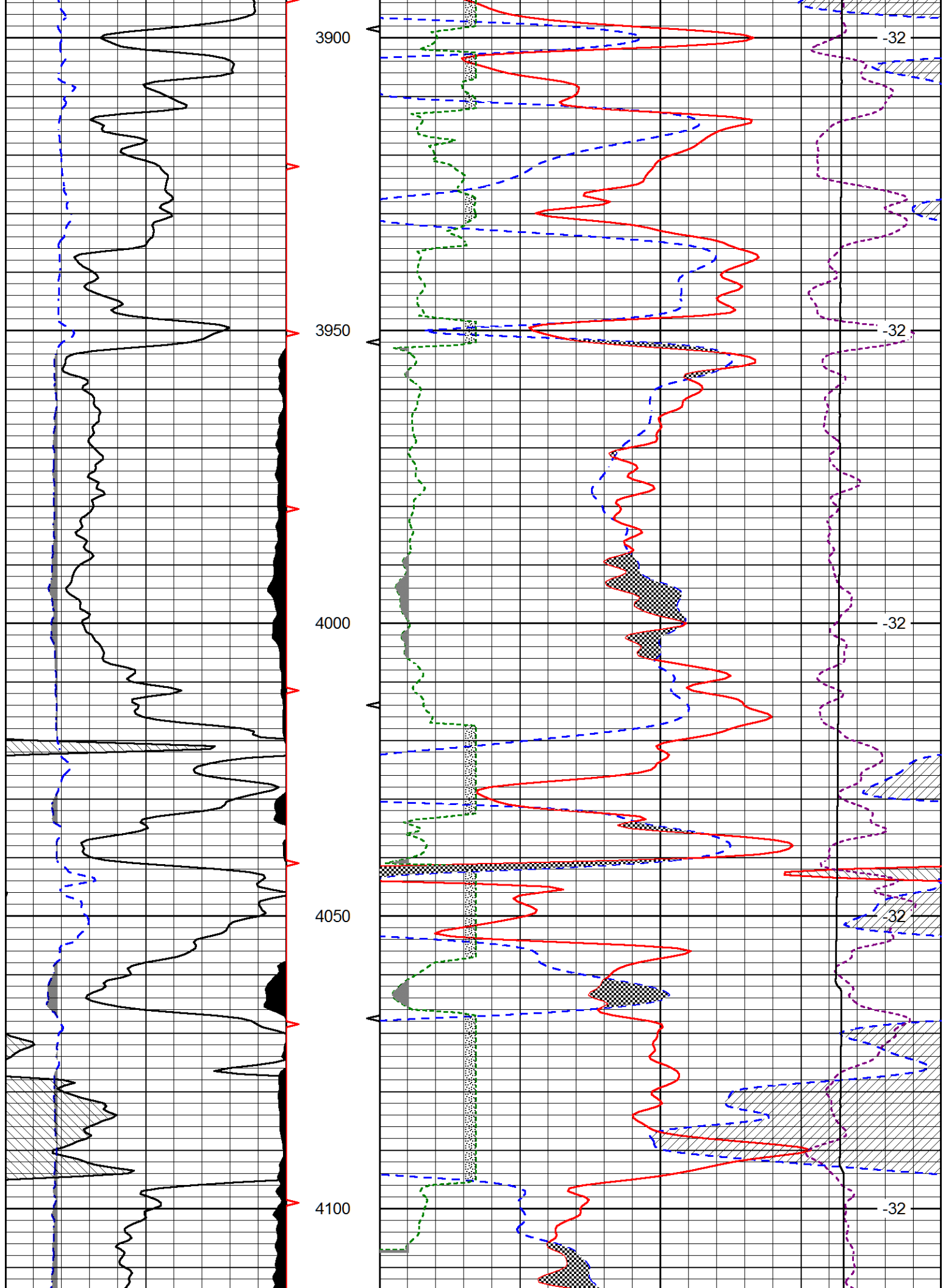
30	CNLS				-10
30	Compensated Density (2.71 ma)				-10
10000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
LSPD					

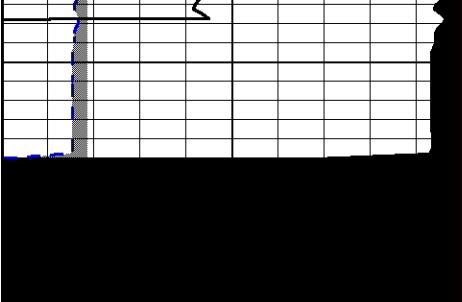




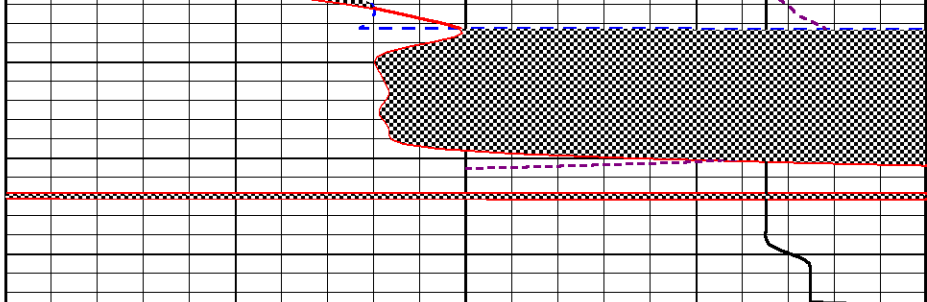








0	Gamma Ray	150
6	Caliper (GAPI)	16



30	CNLS				-10
30	Compensated Density (2.71 ma)				-10
10000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
					LSPD