



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-145-21,708-00-00

Company H&D Exploration, LLC.

Well Phyllis "A" No. 1

Field Pawnee Rock

County Pawnee State Kansas

Location 2,310' FNL & 990' FWL

Sec: 36 Twp: 20S Rge: 16W

Permanent Datum Ground Level Elevation 2032
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
DIL/MEI
Elevation
K.B. 2041
D.F.
G.L. 2032

Date 3/3/2013

Run Number One

Type Log CNL / CDL

Depth Driller 3920

Depth Logger 3923

Bottom Logged Interval 3902

Top Logged Interval 3200

Type Fluid In Hole Chemical

Salinity, PPM CL 7500

Density 9.4

Level Full

Max. Rec. Temp. F 115

Operating Rig Time 4 Hours

Equipment -- Location 108 Hays

Recorded By J. Long

Witnessed By Wyatt Urban

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 1033 8.625 23# 00 1033

Two 7.875 1033 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

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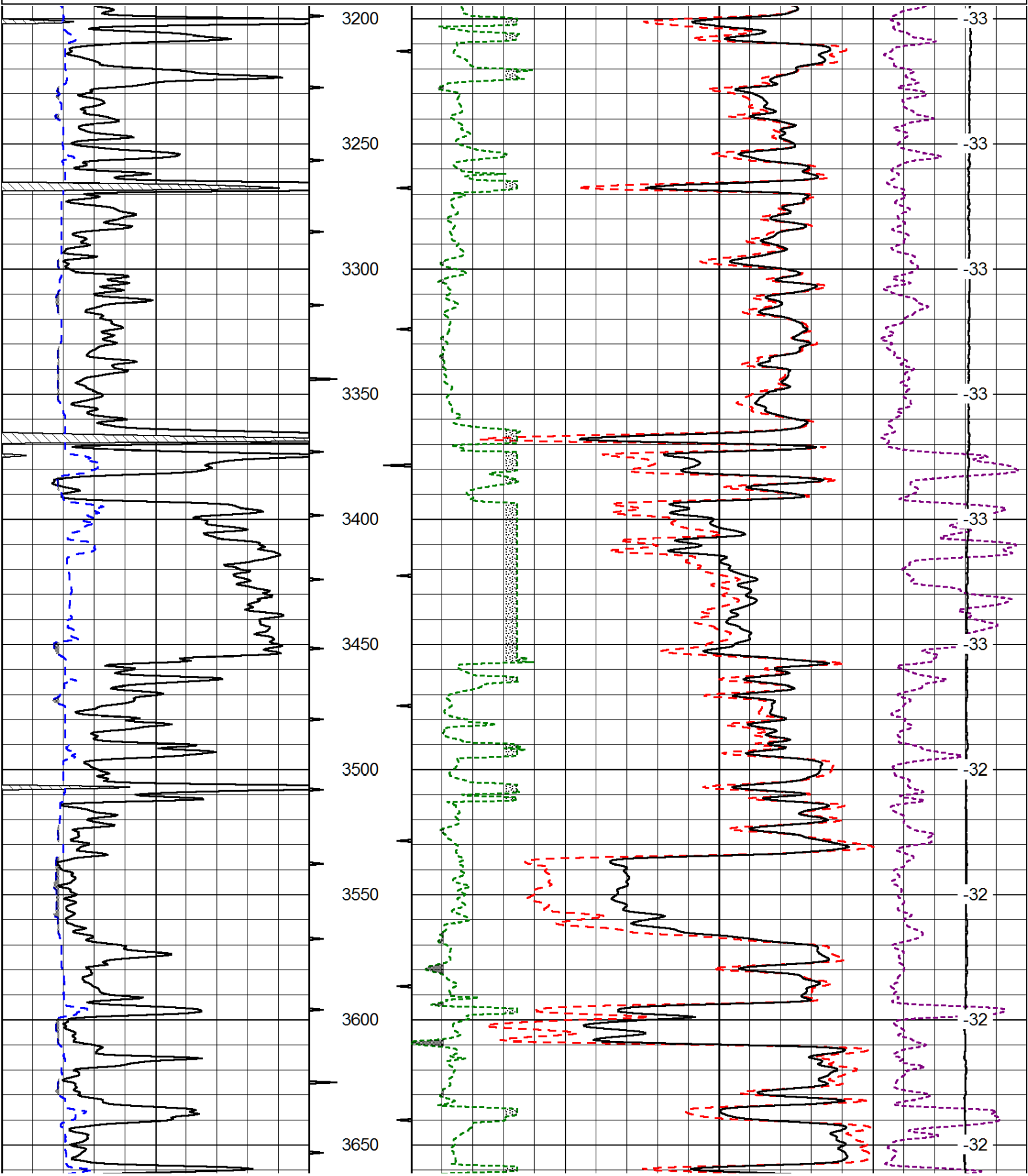
Pawnee Rock, West on T Road (County Road) to 90 Road, 1/2 North, East Into

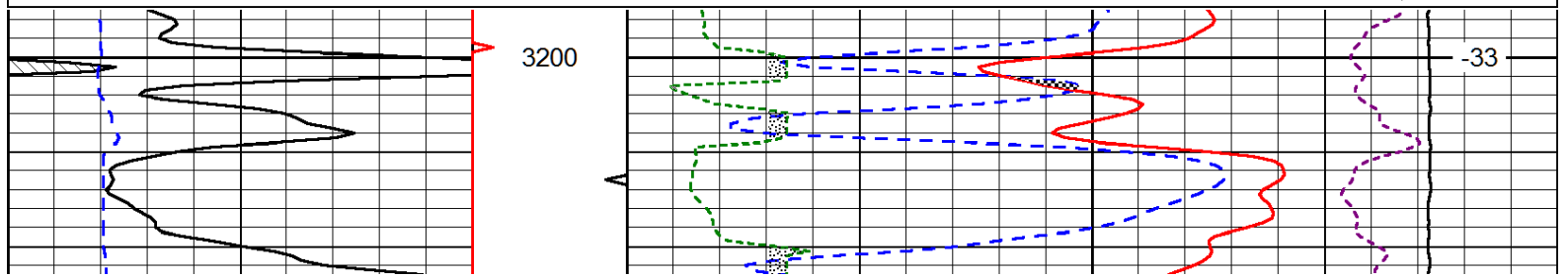
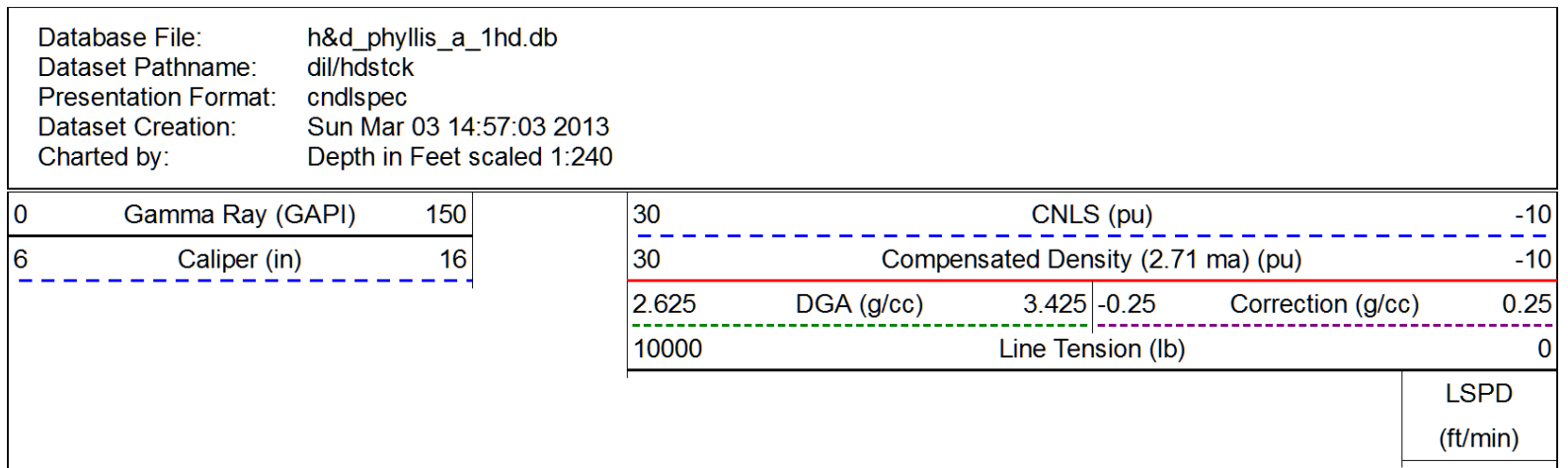
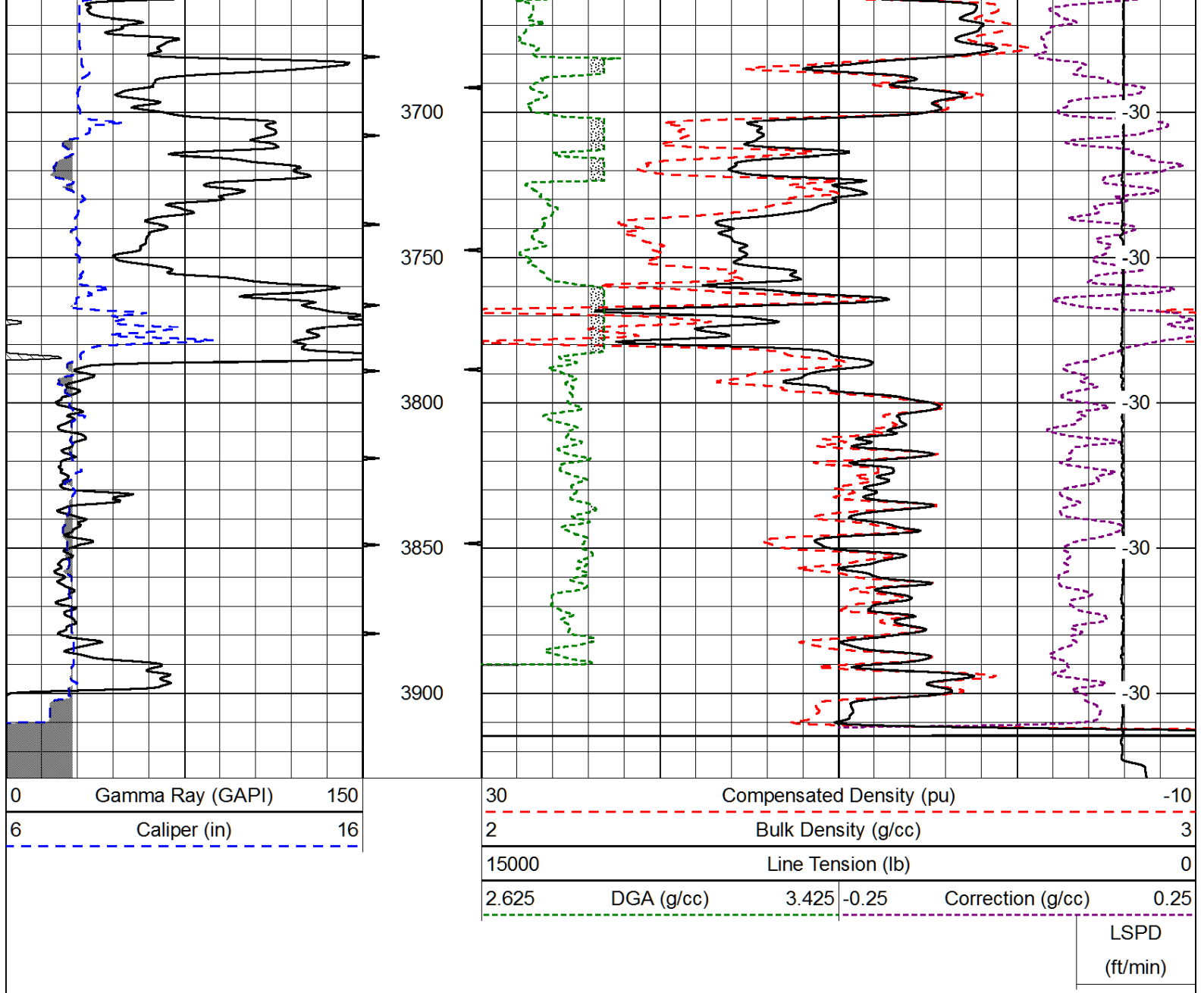
Database File: h&d_phyllis_a_1hd.db
Dataset Pathname: dil/hdstck
Presentation Format: cdl
Dataset Creation: Sun Mar 03 14:57:03 2013
Charted by: Depth in Feet scaled 1:600

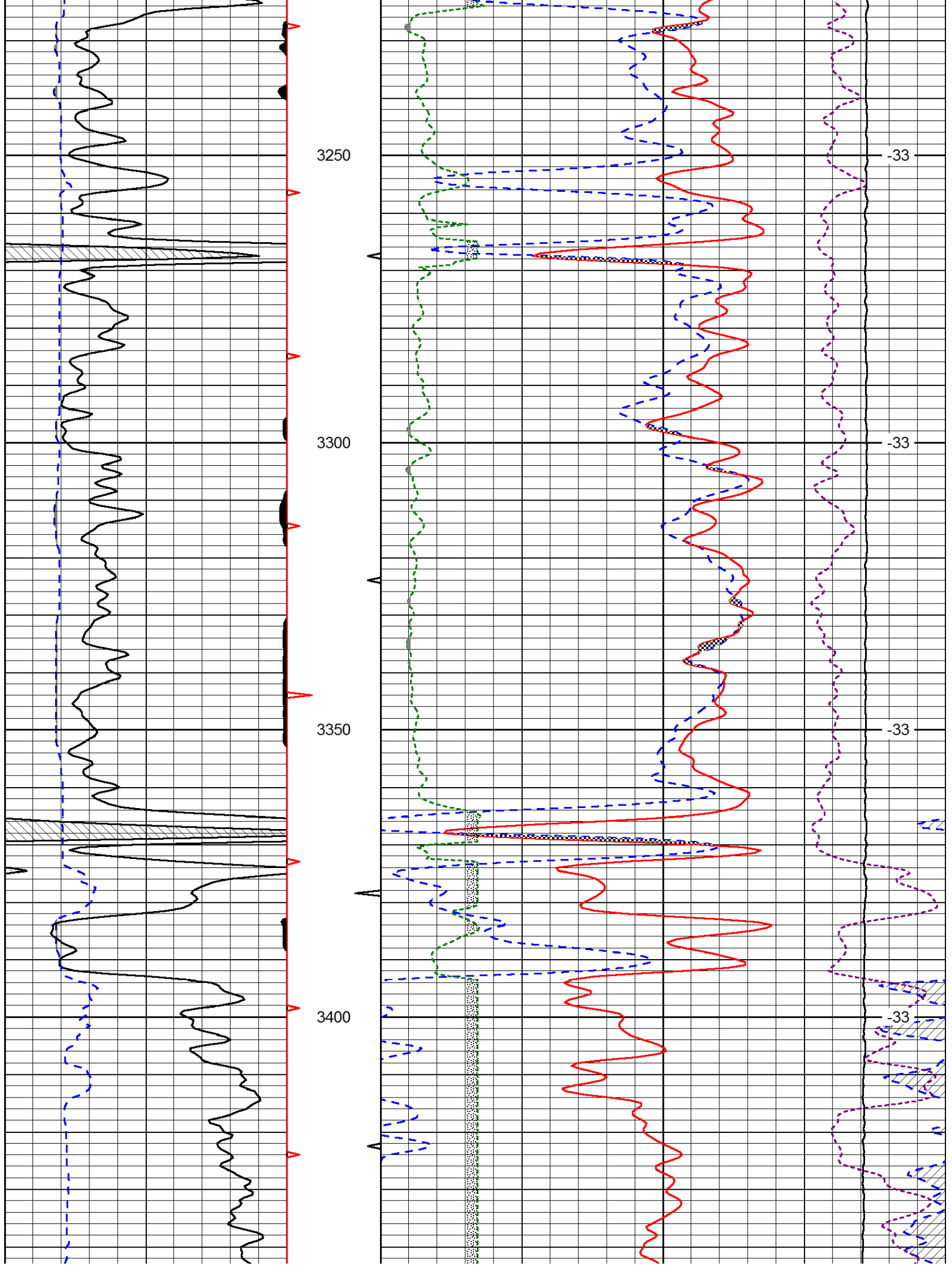
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

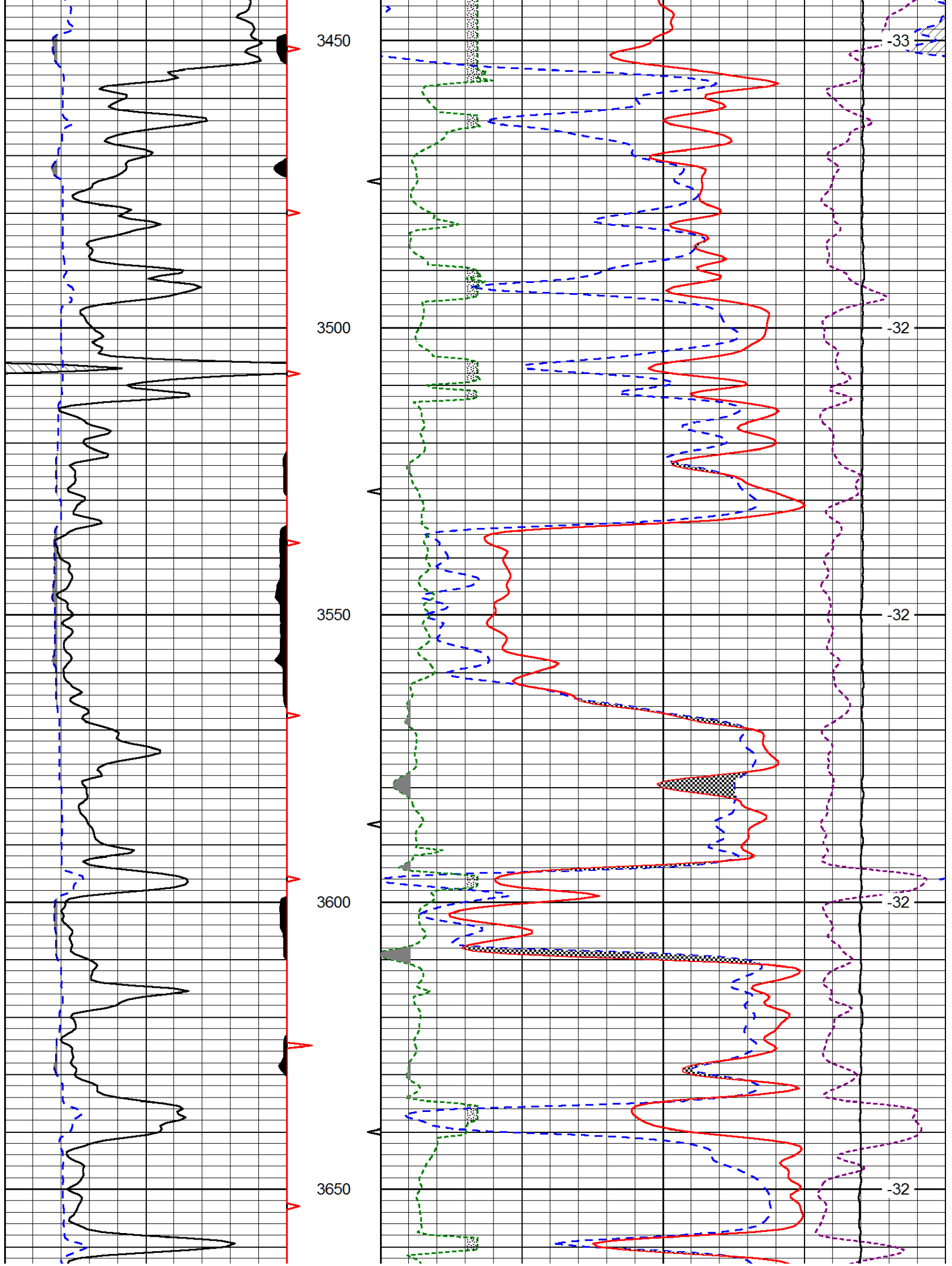
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25

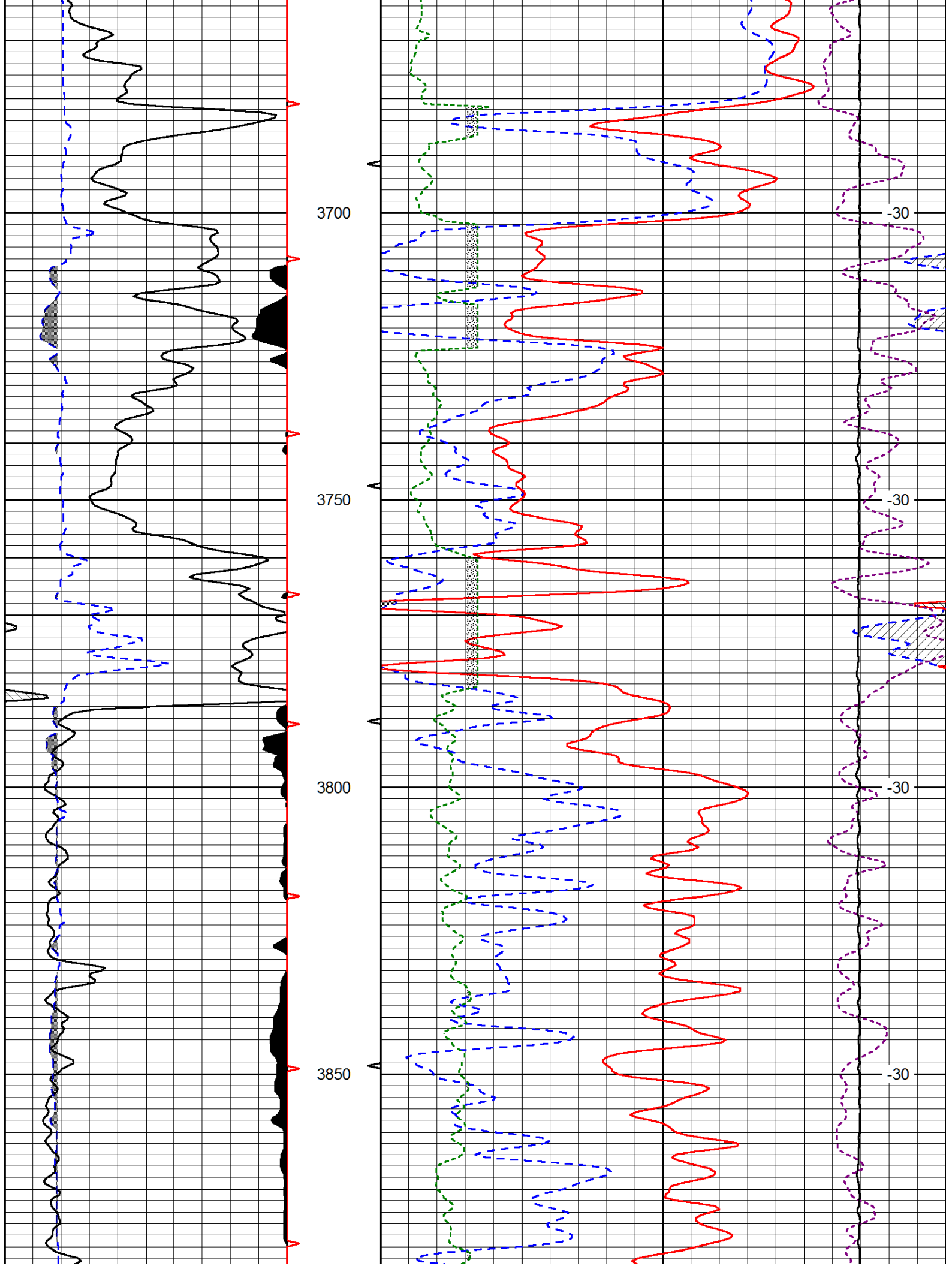
LSPD
(ft/min)

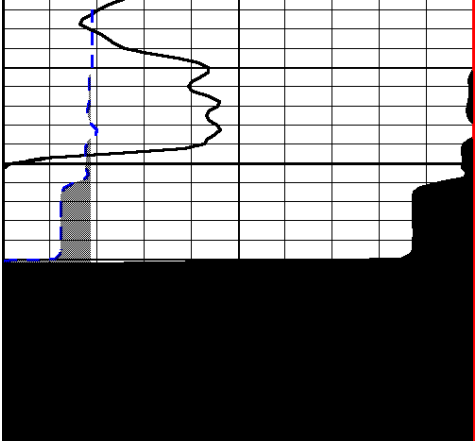




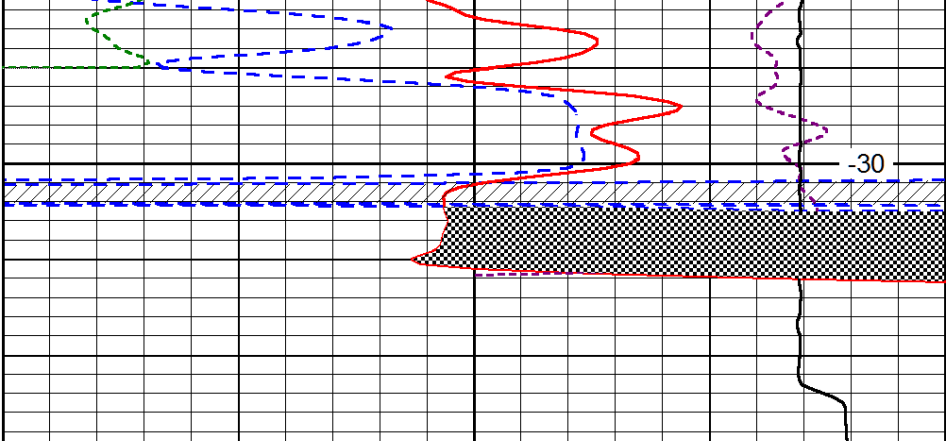








3900



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)