



Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-065-24056-00-00

Company Bowman Oil Company

Well Smith #9

Field Cooper

County Graham

State Kansas

Location

NE SW NE NW
905' FNL / 1815' FWL

Sec: 5

Twp: 10S

Rge: 21W

Permanent Datum Ground Level Elevation 2271
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Other Services
DIL/MEL
Elevation
K.B. 2279
D.F. 2271
G.L. 2271

Date 8/12/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3937

Depth Logger 3936

Bottom Logged Interval 3915

Top Logged Interval 3200

Type Fluid In Hole Chemical

Salinity, PPM CL 1000

Density 9.2

Level Full

Max. Rec. Temp. F 115

Operating Rig Time 4 Hours

Equipment -- Location 15 Hays

Recorded By R. Barnhart

Witnessed By Ed Glassman

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

23#

From

To

221

One

12.25

00

221

TD

Two

7.875

221

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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

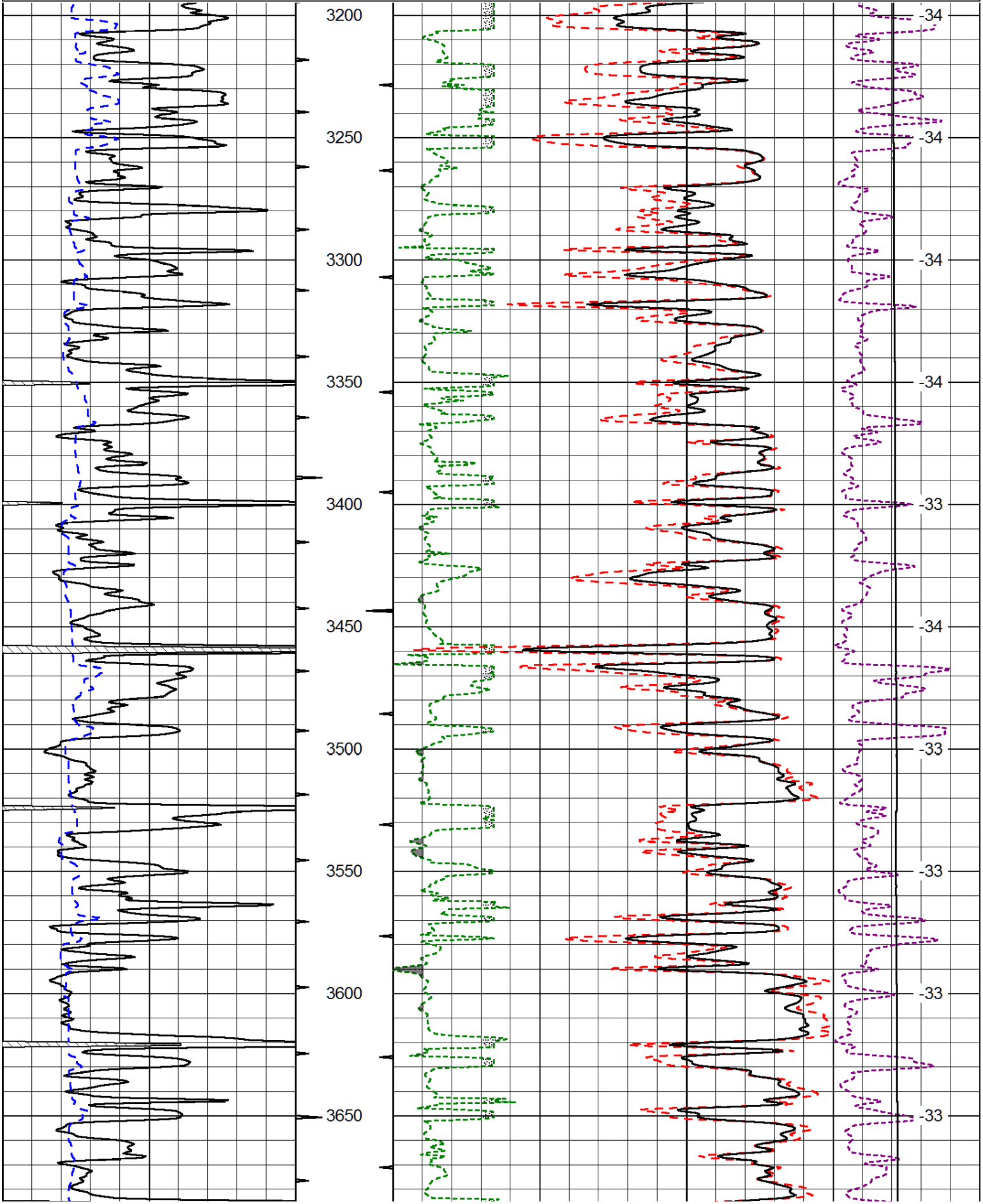
Thank you for using Log-Tech, Inc.
(785) 625-3858

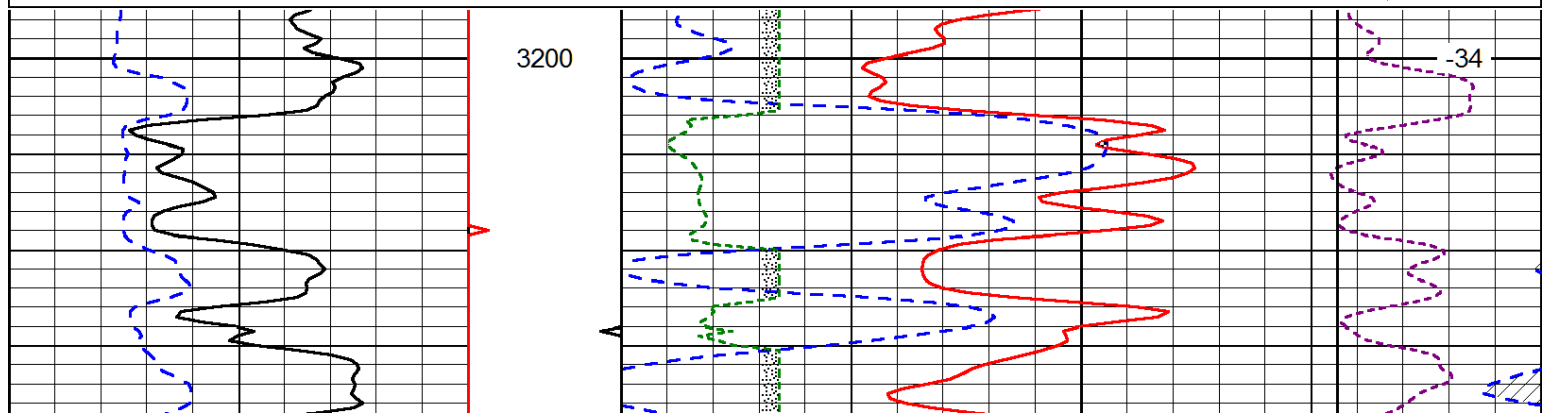
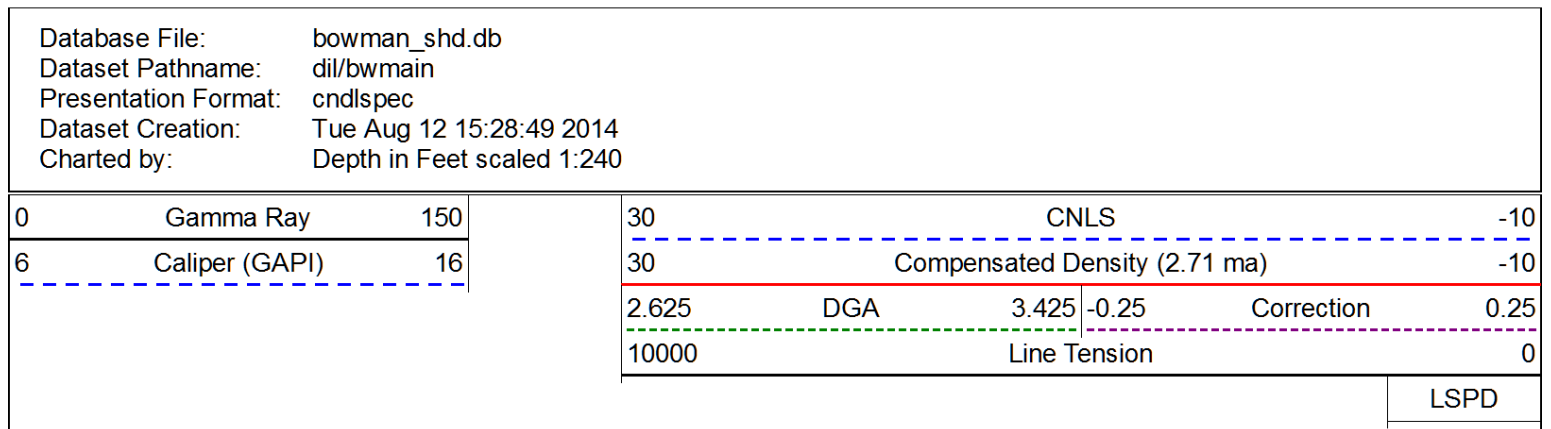
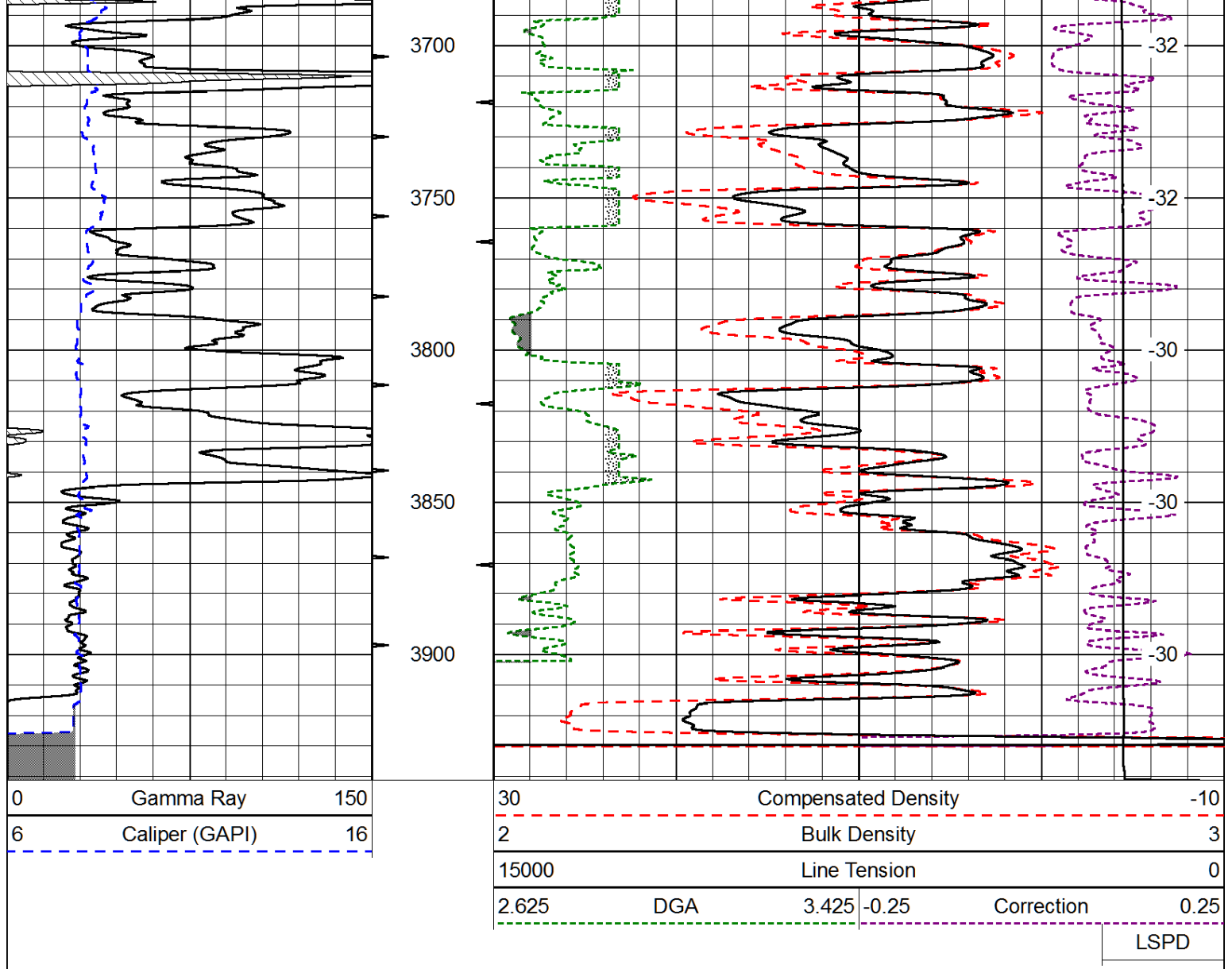
Palco, KS:
Ellis N to Redline Rd., From Church: 3W, 1S, 1/4E, S into

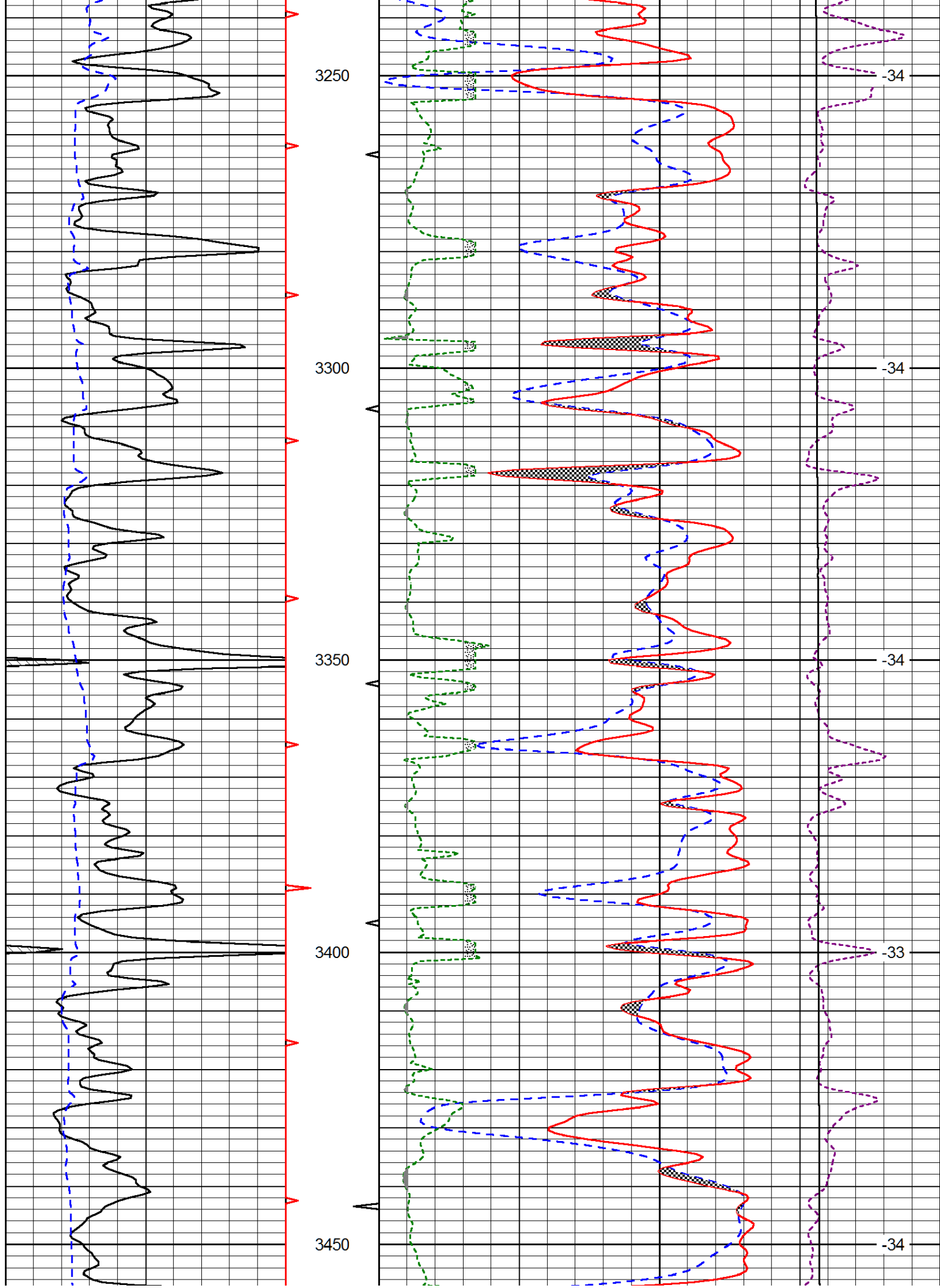
Database File: bowman_shd.db
Dataset Pathname: dil/bwmain
Presentation Format: cdl
Dataset Creation: Tue Aug 12 15:28:49 2014
Charted by: Depth in Feet scaled 1:600

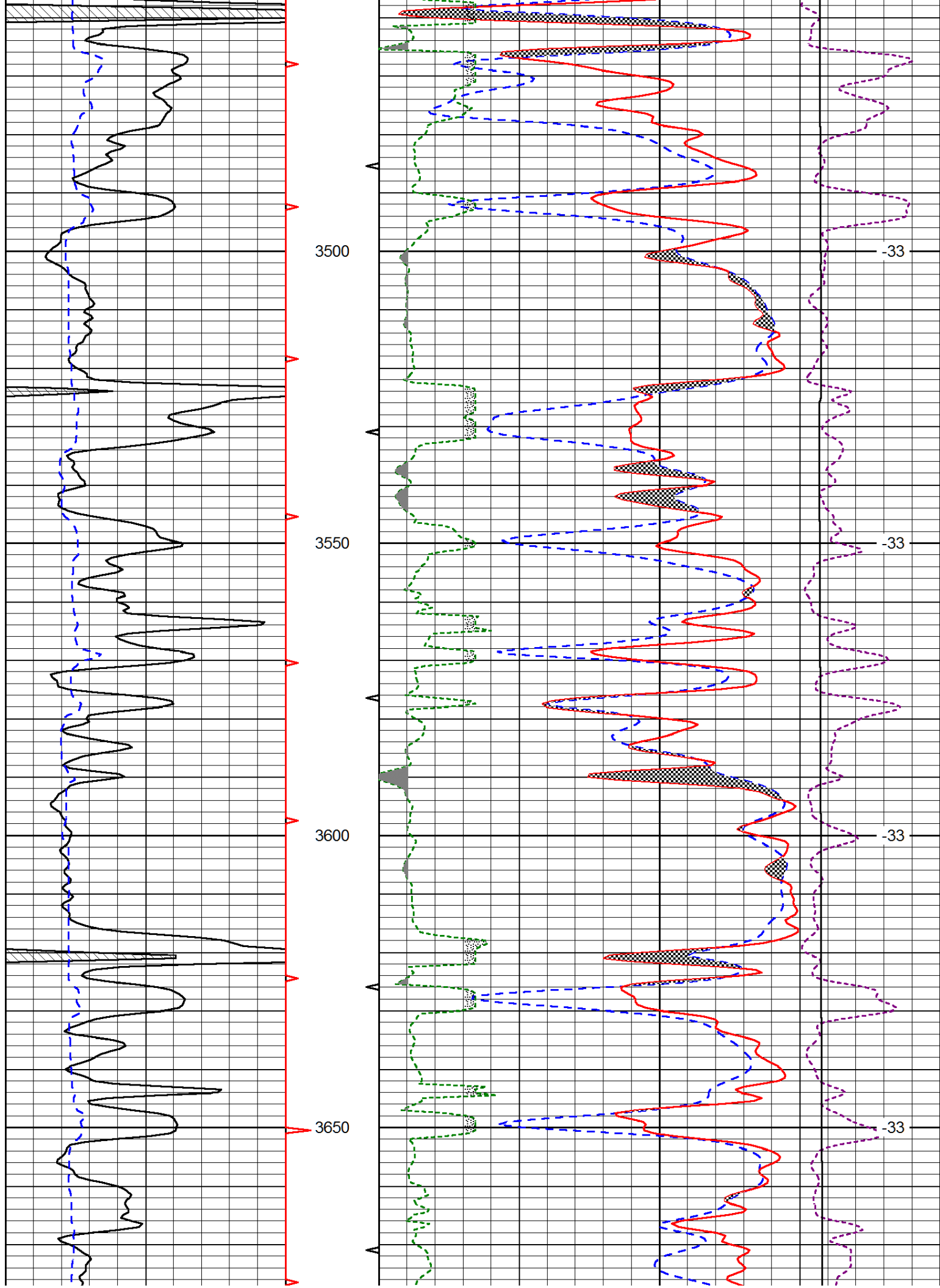
0	Gamma Ray	150
6	Caliper (GAPI)	16

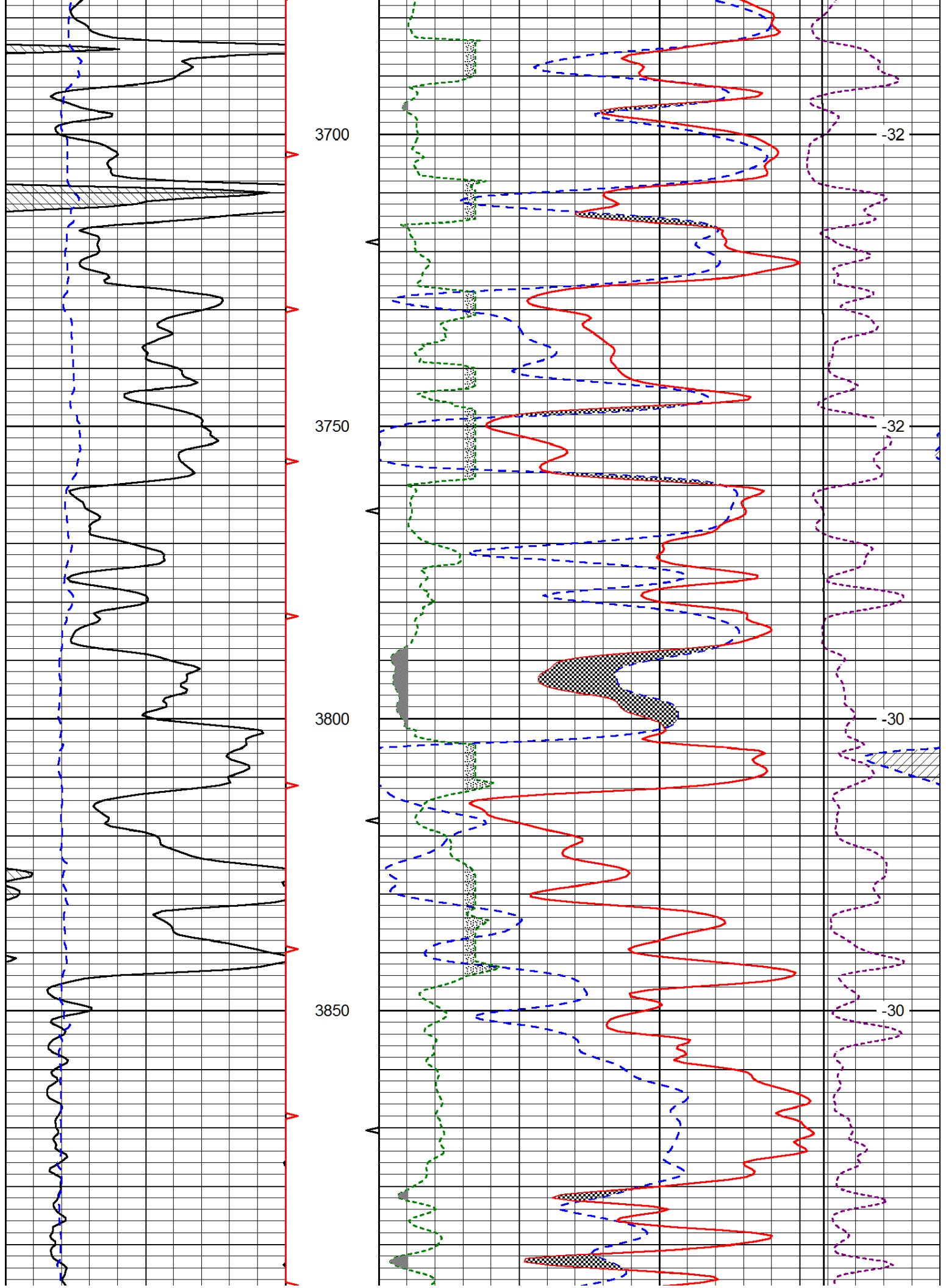
30	Compensated Density				-10
2	Bulk Density				3
15000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
					LSPD

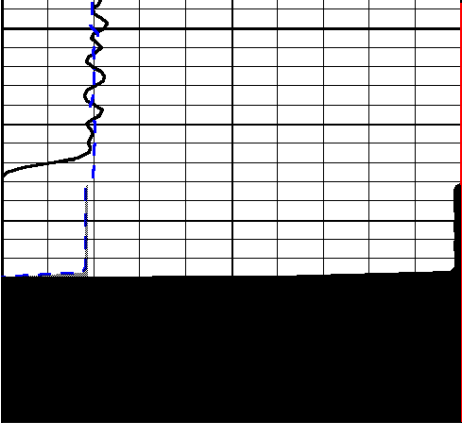






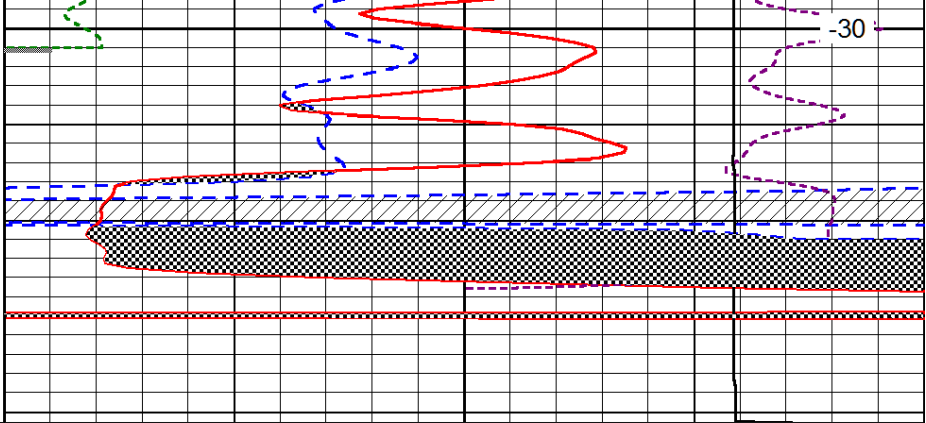






3900

0	Gamma Ray	150
6	Caliper (GAPI)	16



-30

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

LSPD