



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-193-20,925-00-00

Company **Questa Energy Corporation**

Well **Bertrand No. 2-22**

Field **Ohl**

County **Thomas**

State **Kansas**

Location **2,548' FNL & 1,868' FEL**

Sec: **22**

Twp: **9S**

Rge: **32W**

Other Services
DIL
MEL/BHCS

Permanent Datum **Ground Level** Elevation **3071**

Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum

K.B. 3081
D.F.
G.L. 3071

Date **9/13/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4730**

Depth Logger **4730**

Bottom Logged Interval **4709**

Top Logged Interval **3900**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1800**

Density **9.2**

Level **Full**

Max. Rec. Temp. F **123**

Operating Rig Time **4 1/2 Hours**

Equipment -- Location **108 Hays**

Recorded By **J. Long**

Witnessed By **Justin Carter**

Borehole Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	356	8.625	23#	00	356
Two	7.875	356	TD				

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	356	8.625	23#	00	356
Two	7.875	356	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

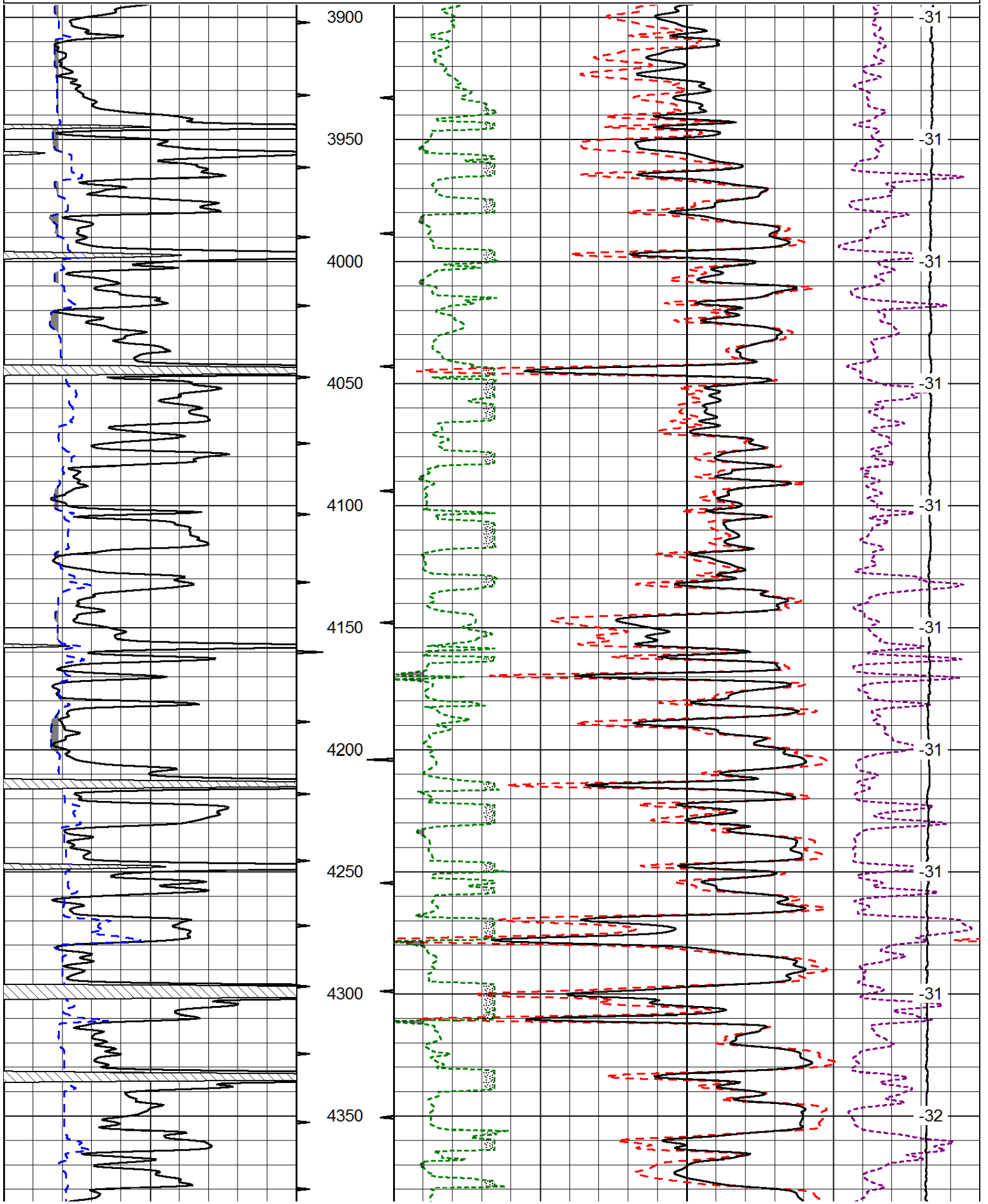
Thank you for using Log-Tech, Inc.
(785) 625-3858

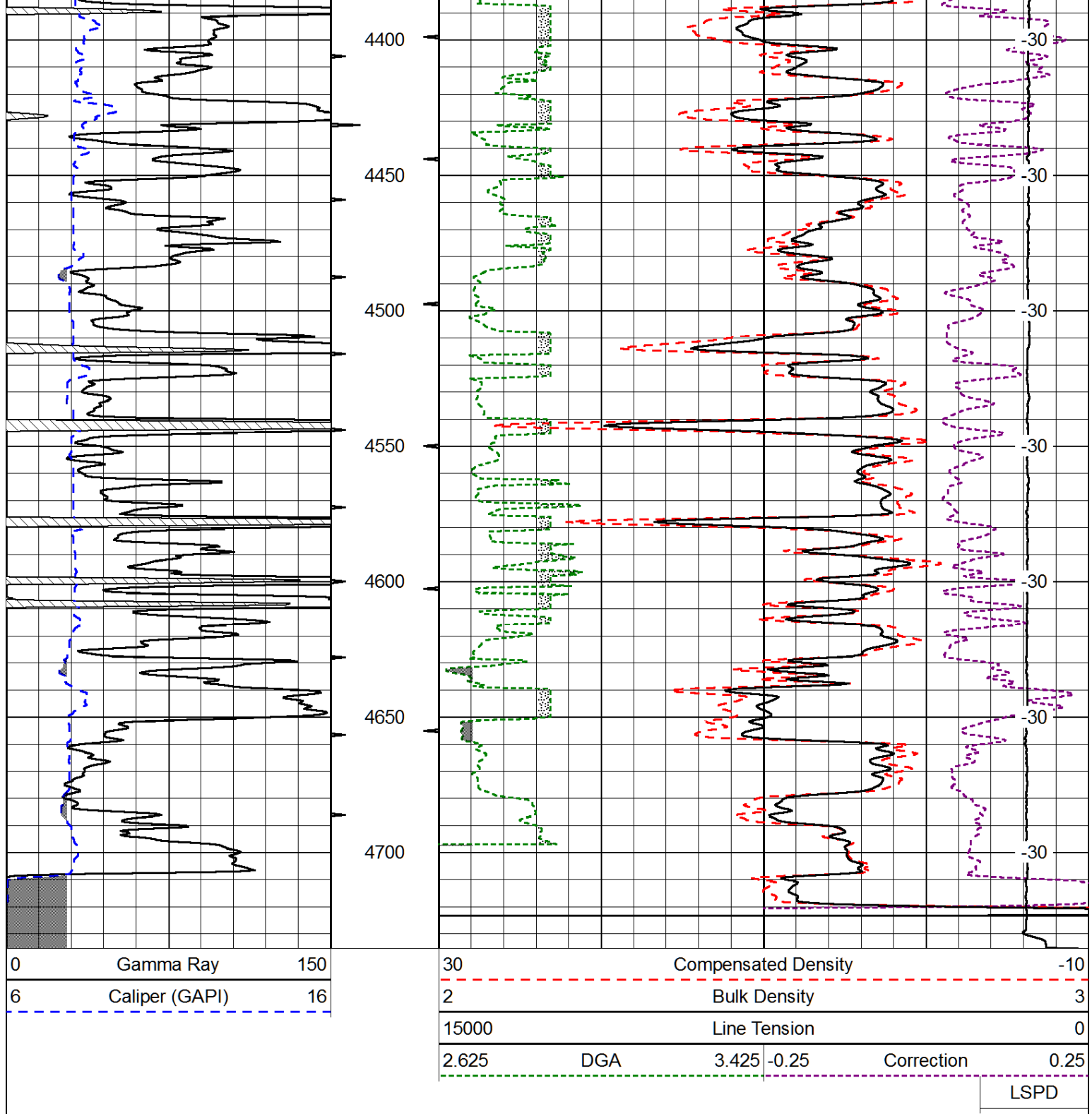
Oakley (Highway 83 & I-70 Intersection), 4 1/2 North, West Into

Database File: **questa_bertrand_2-22hd.db**
Dataset Pathname: **dil/quesstck**
Presentation Format: **cdl**
Dataset Creation: **Sat Sep 13 08:45:52 2014**
Charted by: **Depth in Feet scaled 1:600**

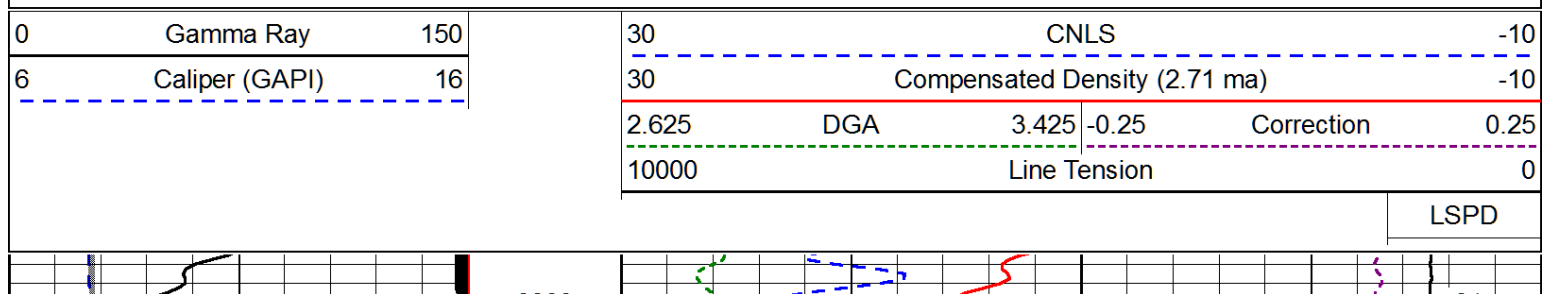
0	Gamma Ray	150
6	Caliper (GAPI)	16

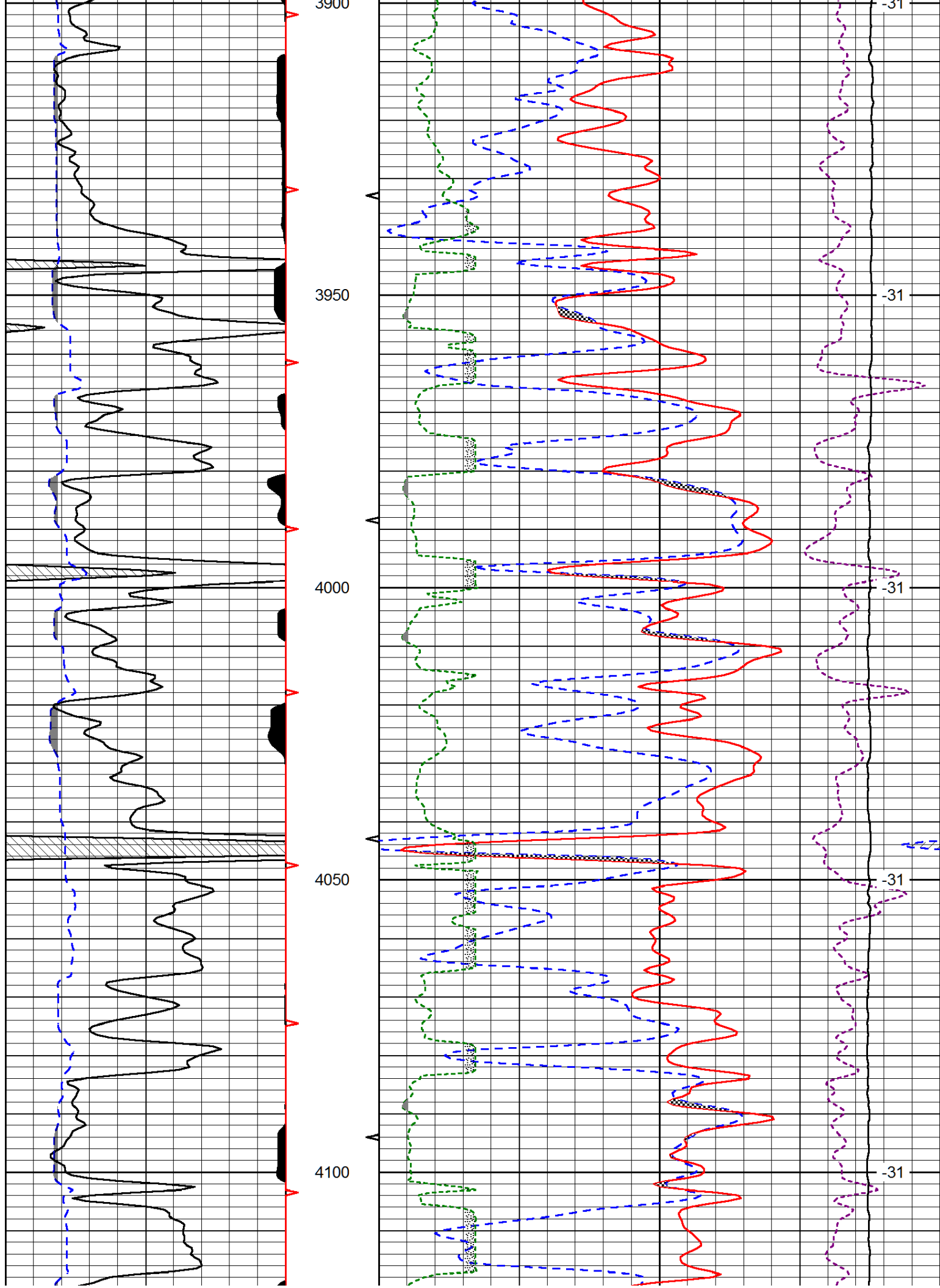
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

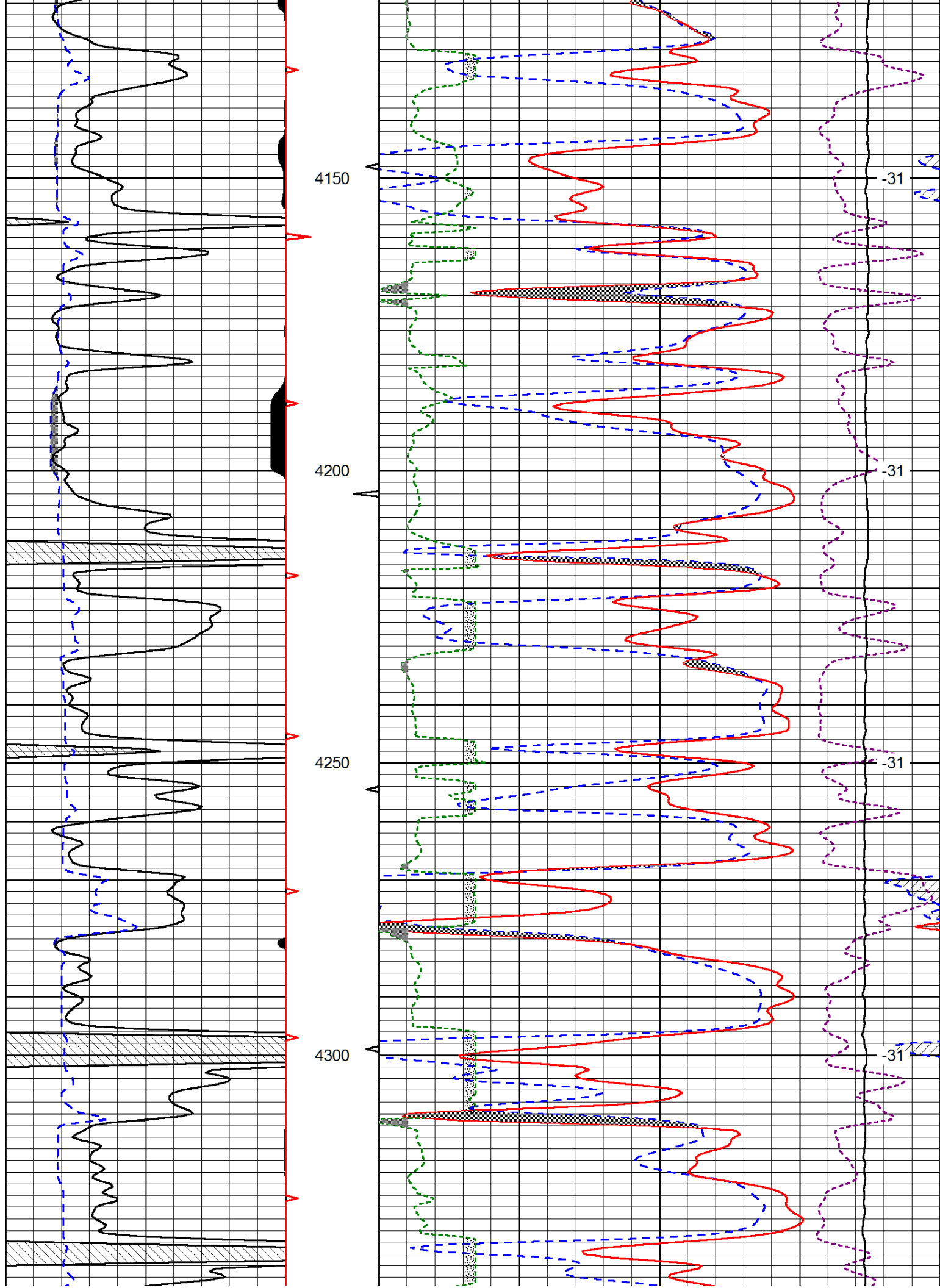


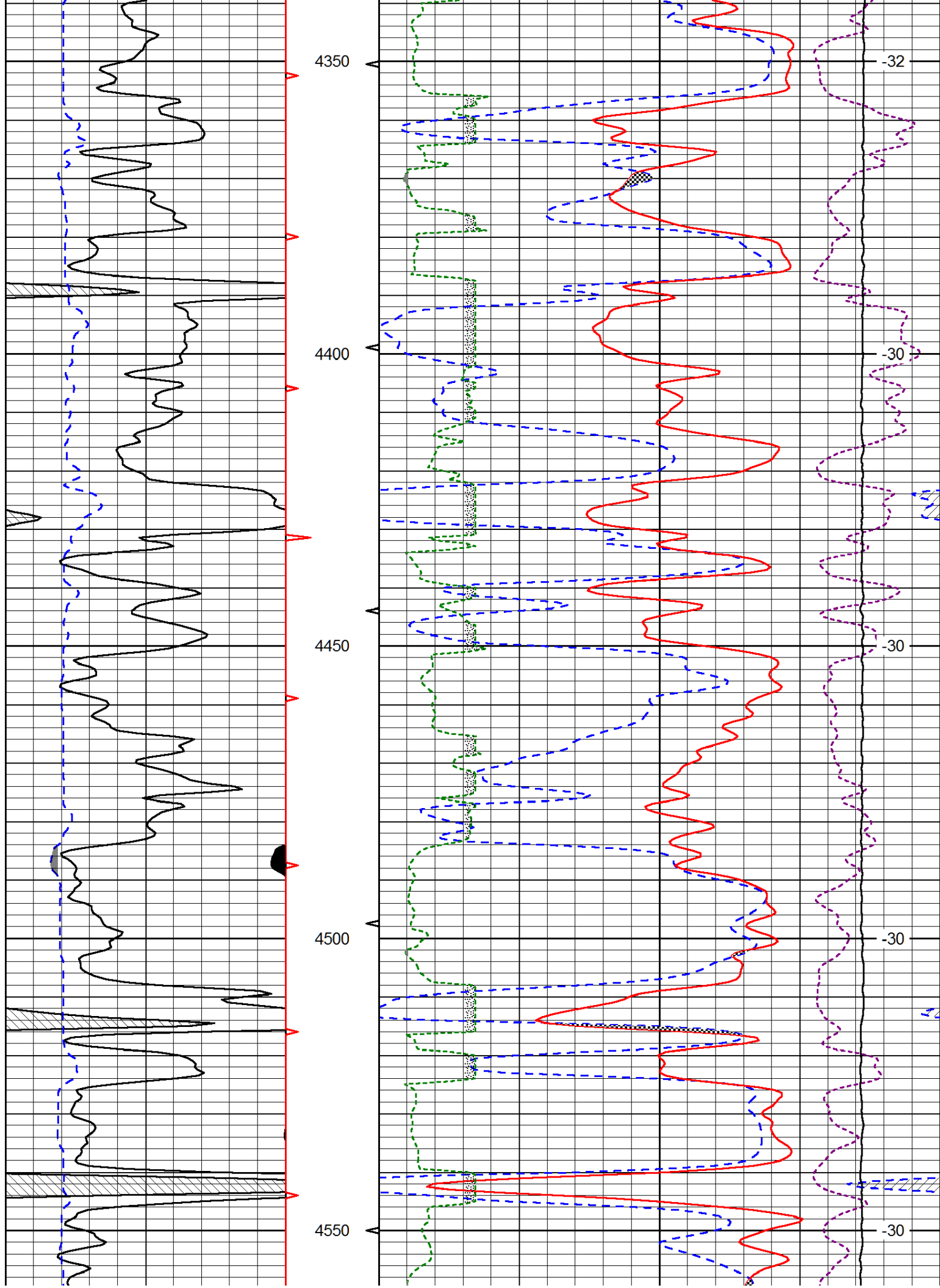


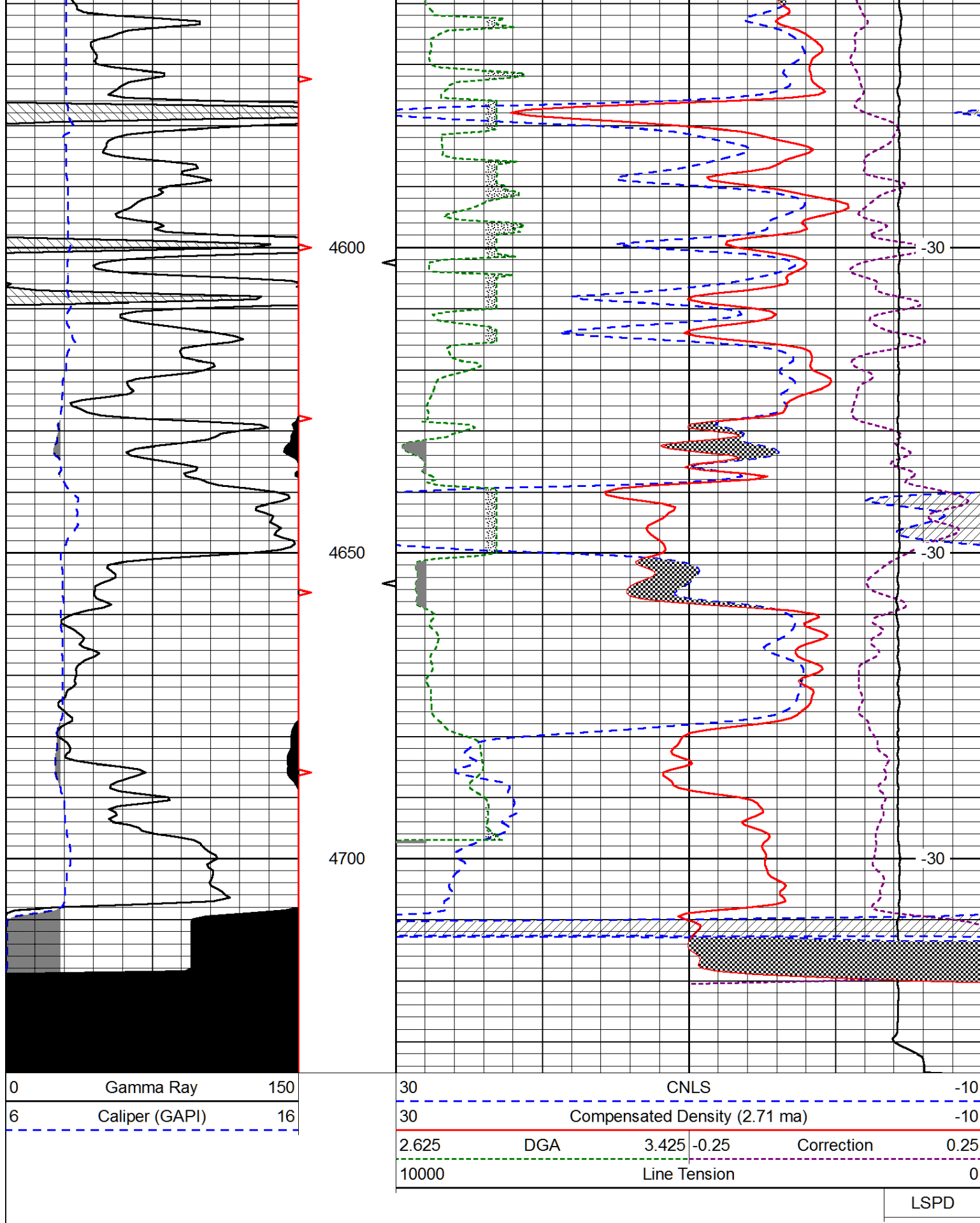
Database File: questa_bertrand_2-22hd.db
 Dataset Pathname: dil/quesstck
 Presentation Format: cndlspec
 Dataset Creation: Sat Sep 13 08:45:52 2014
 Charted by: Depth in Feet scaled 1:240









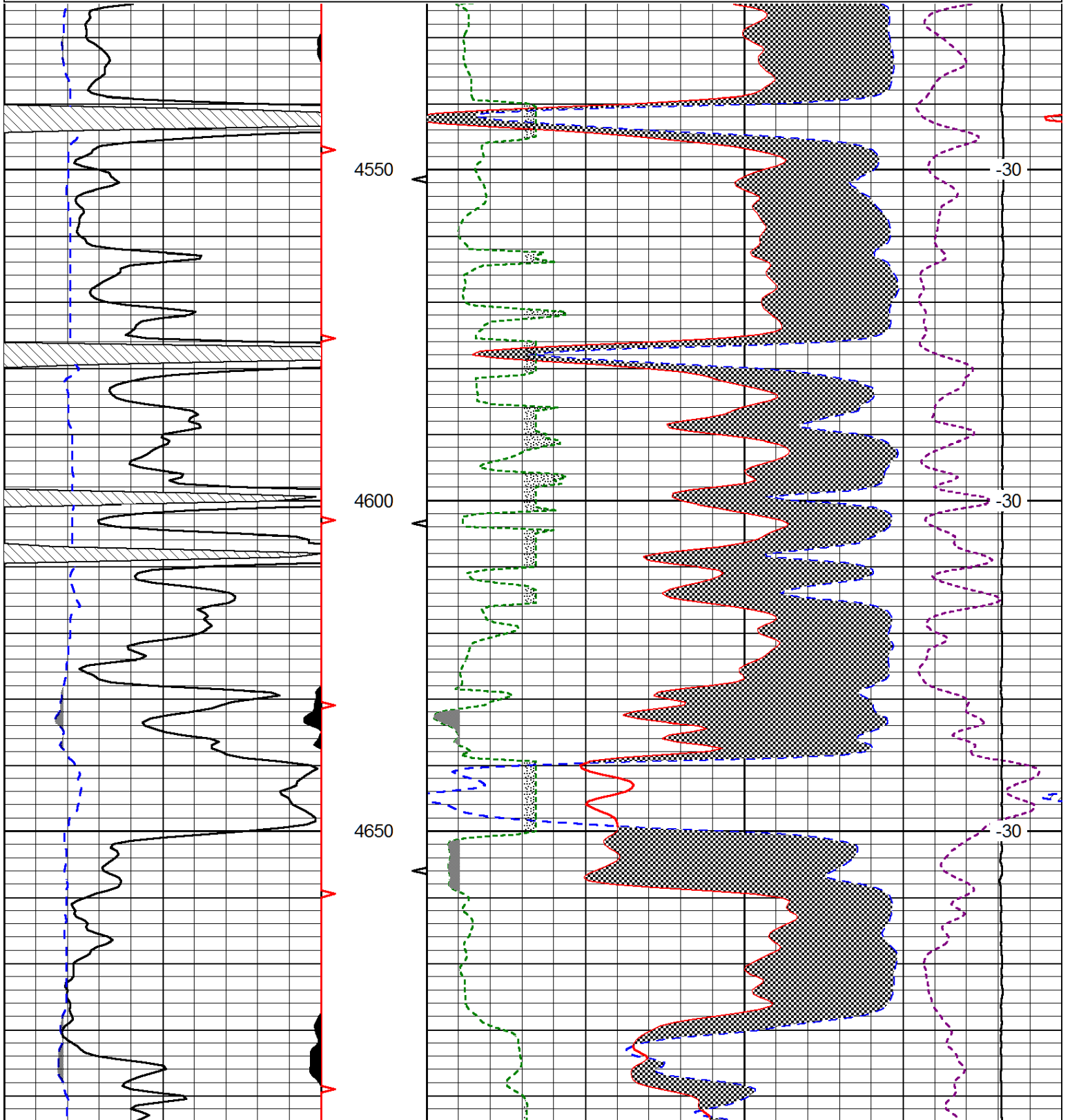


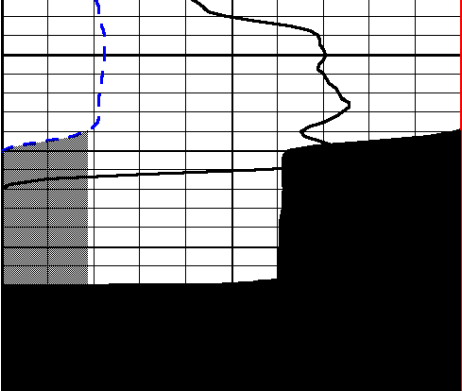
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Dataset Pathname: dil/@000c69d0
Presentation Format: cndldol
Dataset Creation: Sat Sep 13 08:59:53 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron		-10		
30	Compensated Density		-10		
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension		0		

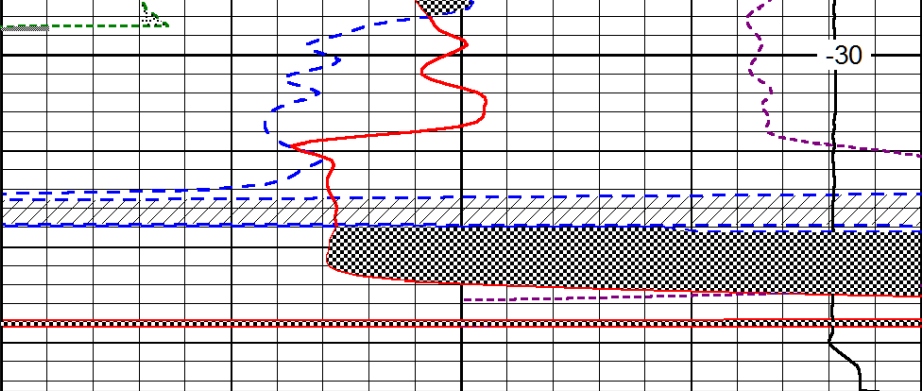
LSPD





4700

0	Gamma Ray	150
6	Caliper (GAPI)	16



-30

30	Compensated Neutron				-10
30	Compensated Density				-10
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0

LSPD