



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-135-25439-00-00

Company H&C Oil Operating, Inc.

Well Dinges #19-1

Field Wildcat

County

Ness

State Kansas

Location 1550' FSL & 800' FWL

Sec: 19

Twp: 17S

Rge: 26W

Other Services
DIL
MEL/BHCS

Permanent Datum Ground Level Elevation 2527

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

K.B. 2535
D.F.
G.L. 2527

Date 8/5/2012

Run Number One

Type Log CNL / CDL

Depth Driller 4544

Depth Logger 4545

Bottom Logged Interval 4524

Top Logged Interval 3700

Type Fluid In Hole Chemical

Salinity, PPM CL 6000

Density 9.2

Level Full

Max. Rec. Temp. F 123

Operating Rig Time 5 Hours

Equipment -- Location 91 Hays

Recorded By D. Schmidt

Witnessed By Marc Downing

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
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One	12.25	00	211	8.625	23#	00	211
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Two	7.875	211	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

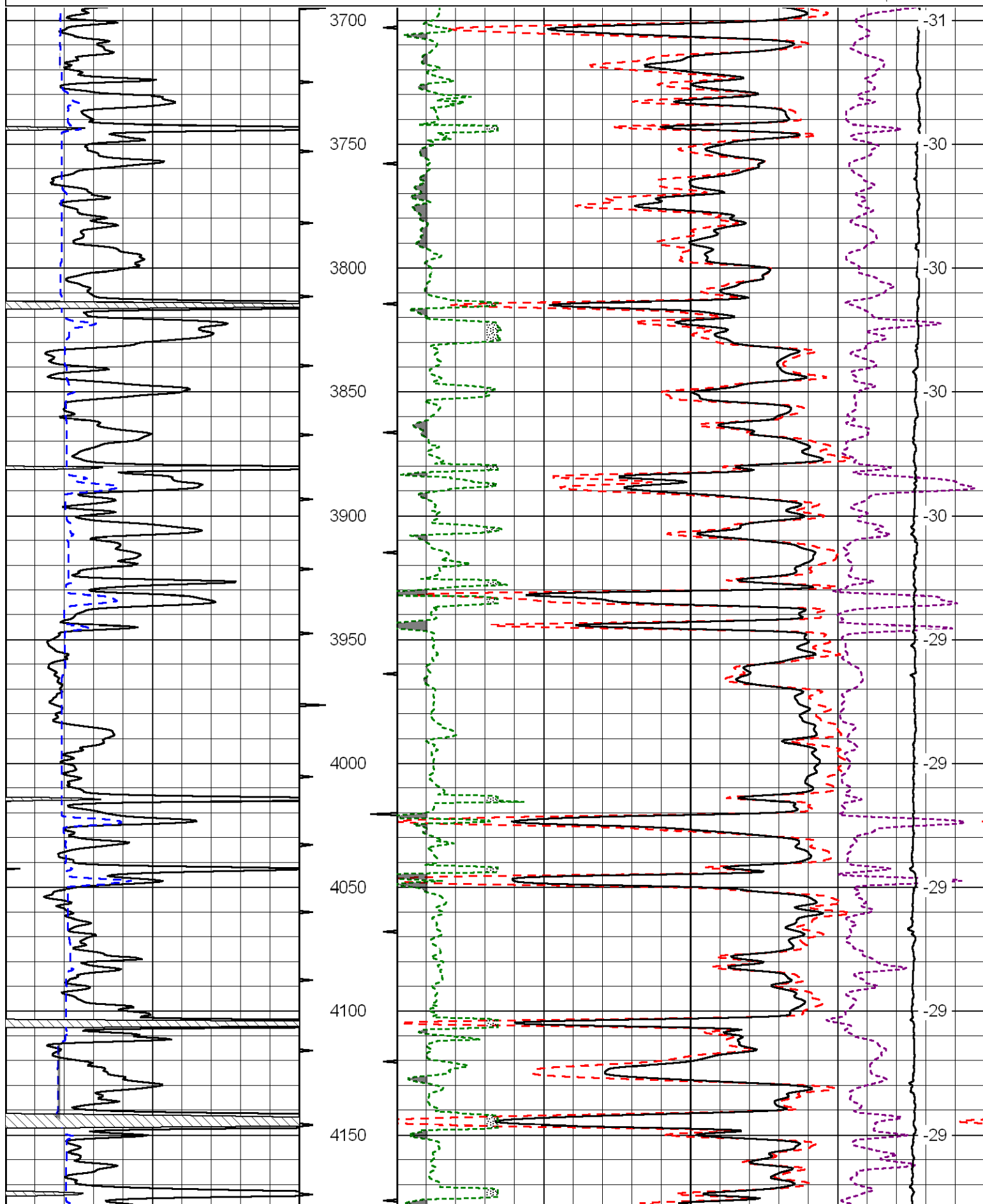
Thank you for using Log-Tech, Inc.
(785) 625-3858

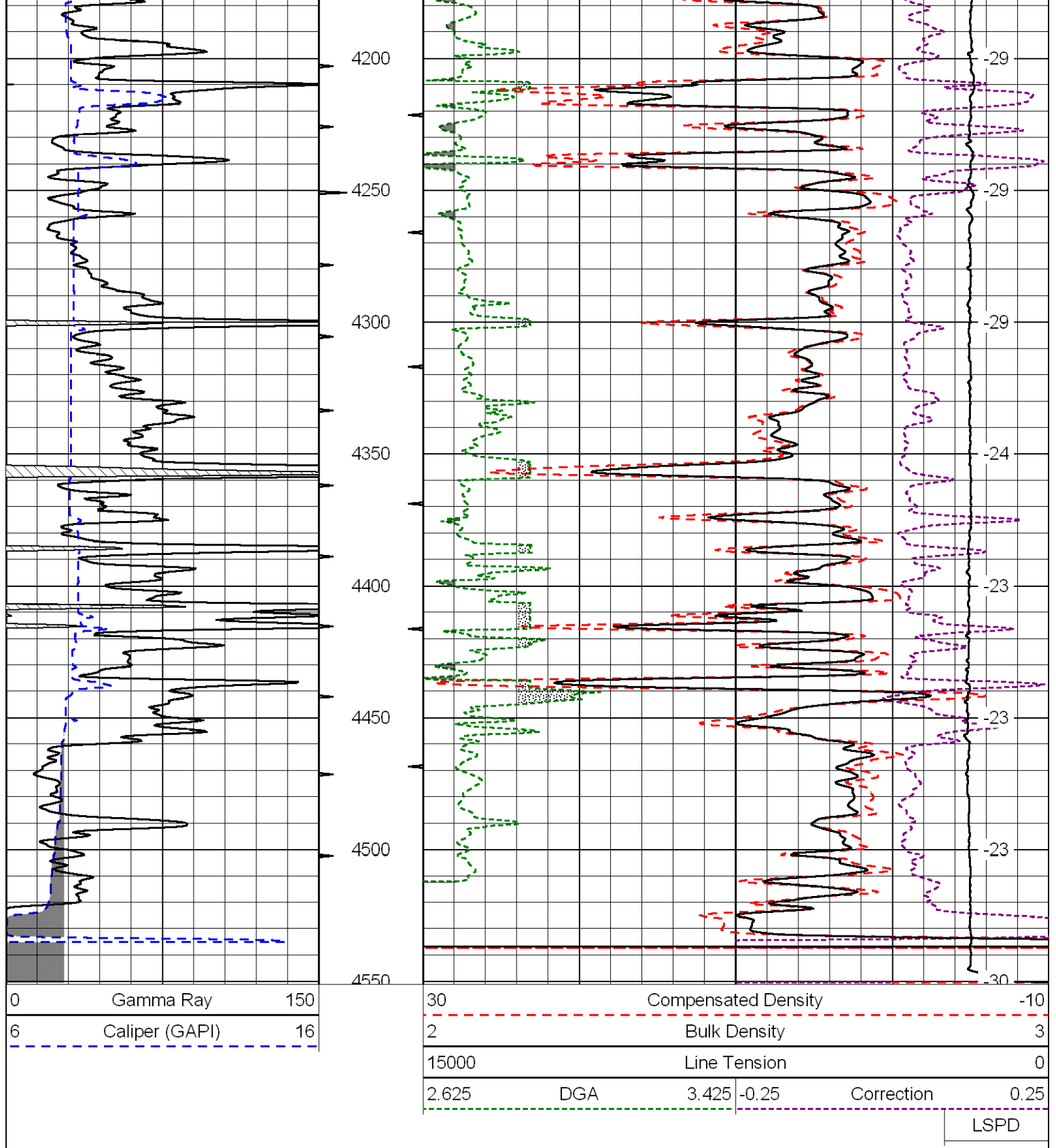
Utica,
2 West to B Rd, 4 South to 220 Rd, 1 West to A Rd, 1 3/4 South,
West into thru gate about 1 mile to location

Database File: h&c_080512hd.db
Dataset Pathname: dil/hcstack
Presentation Format: cdl
Dataset Creation: Sun Aug 05 06:51:58 2012
Charted by: Depth in Feet scaled 1:600

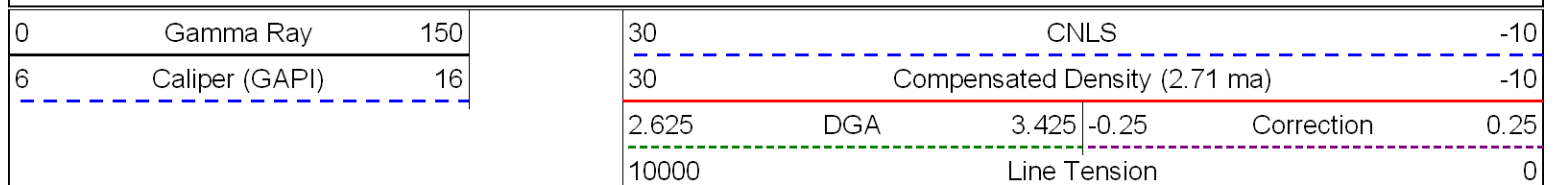
0	Gamma Ray	150
6	Caliper (GAPI)	16

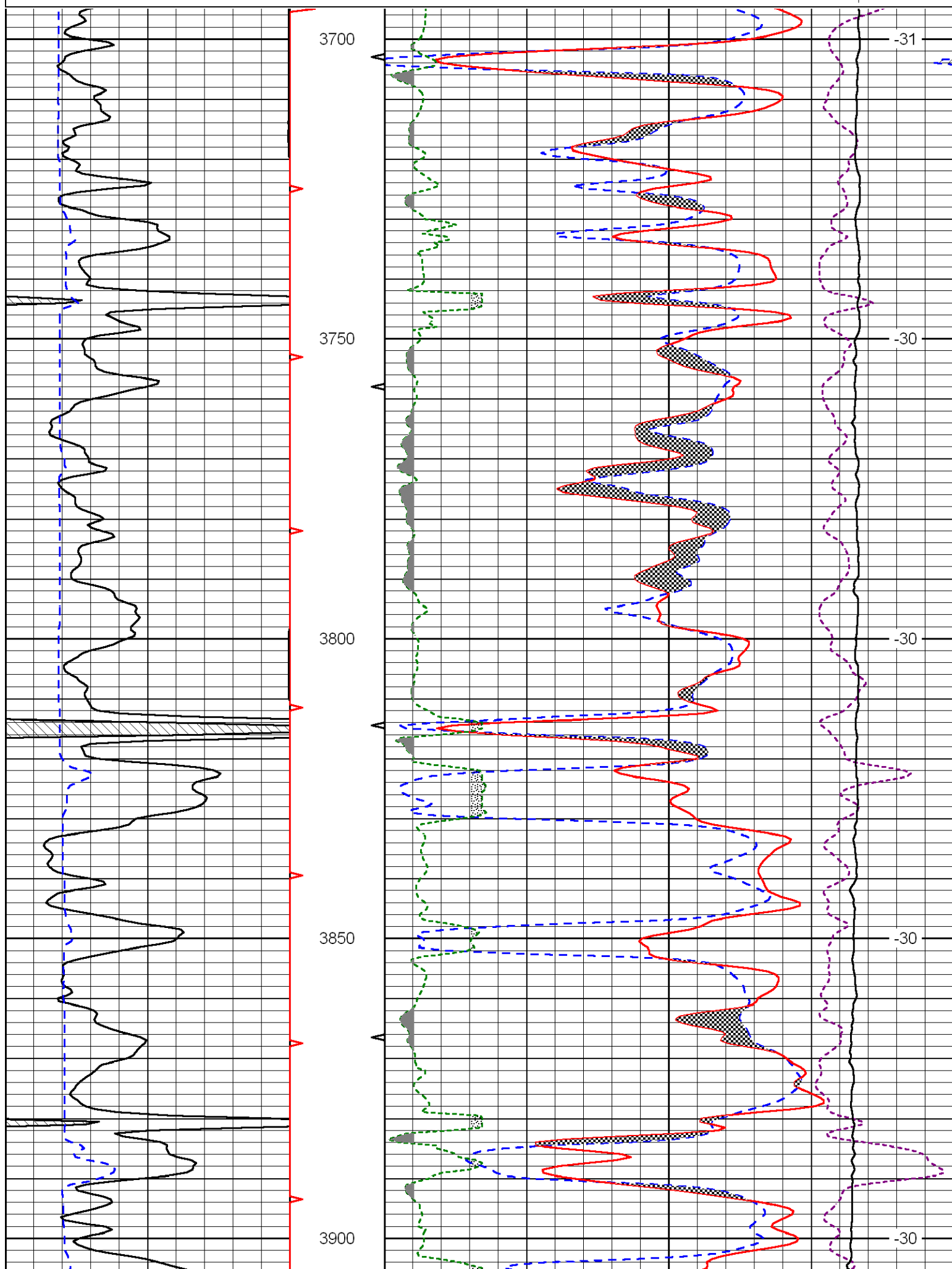
30	Compensated Density				-10
2	Bulk Density				3
15000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
					LSPD

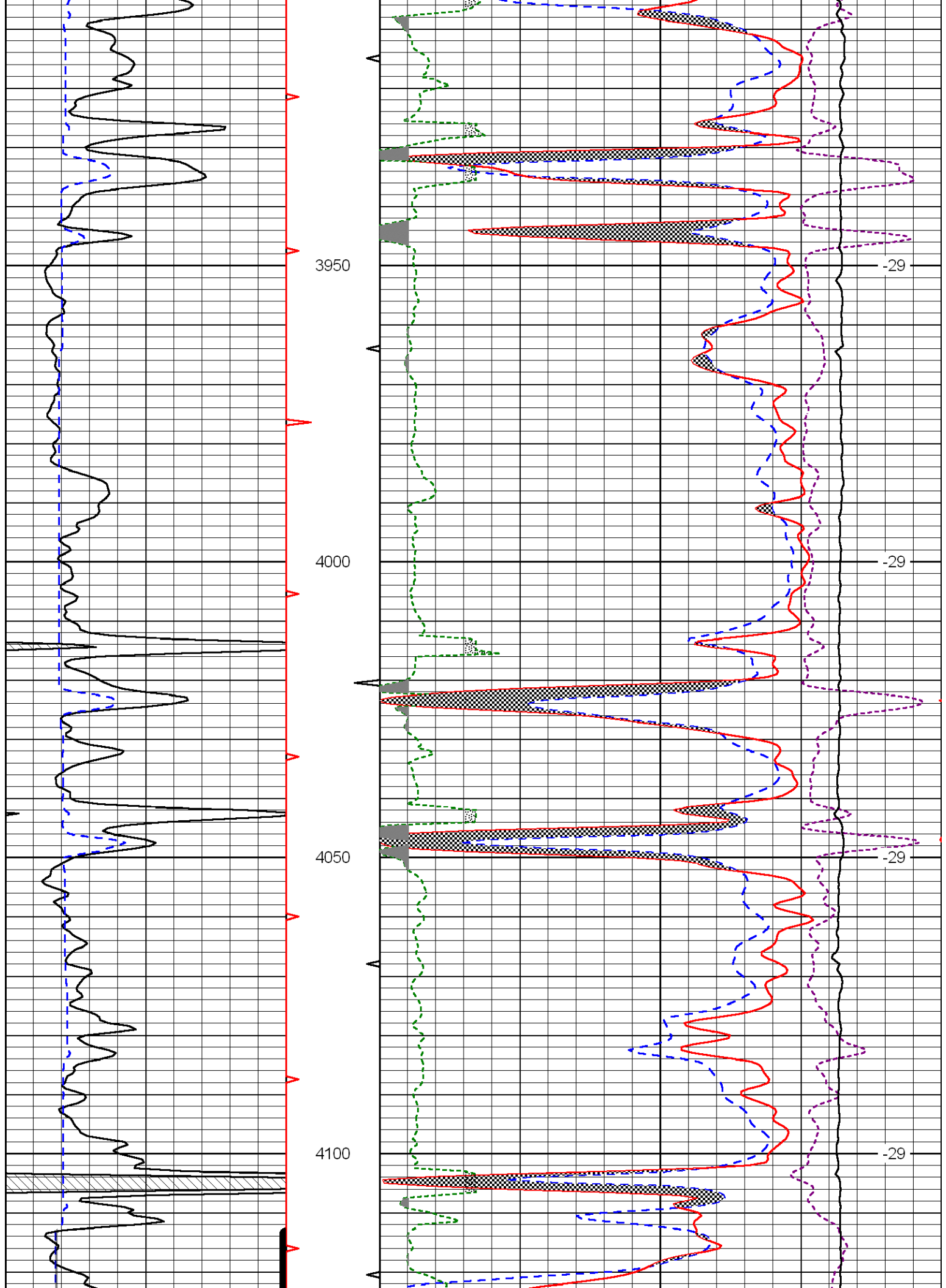


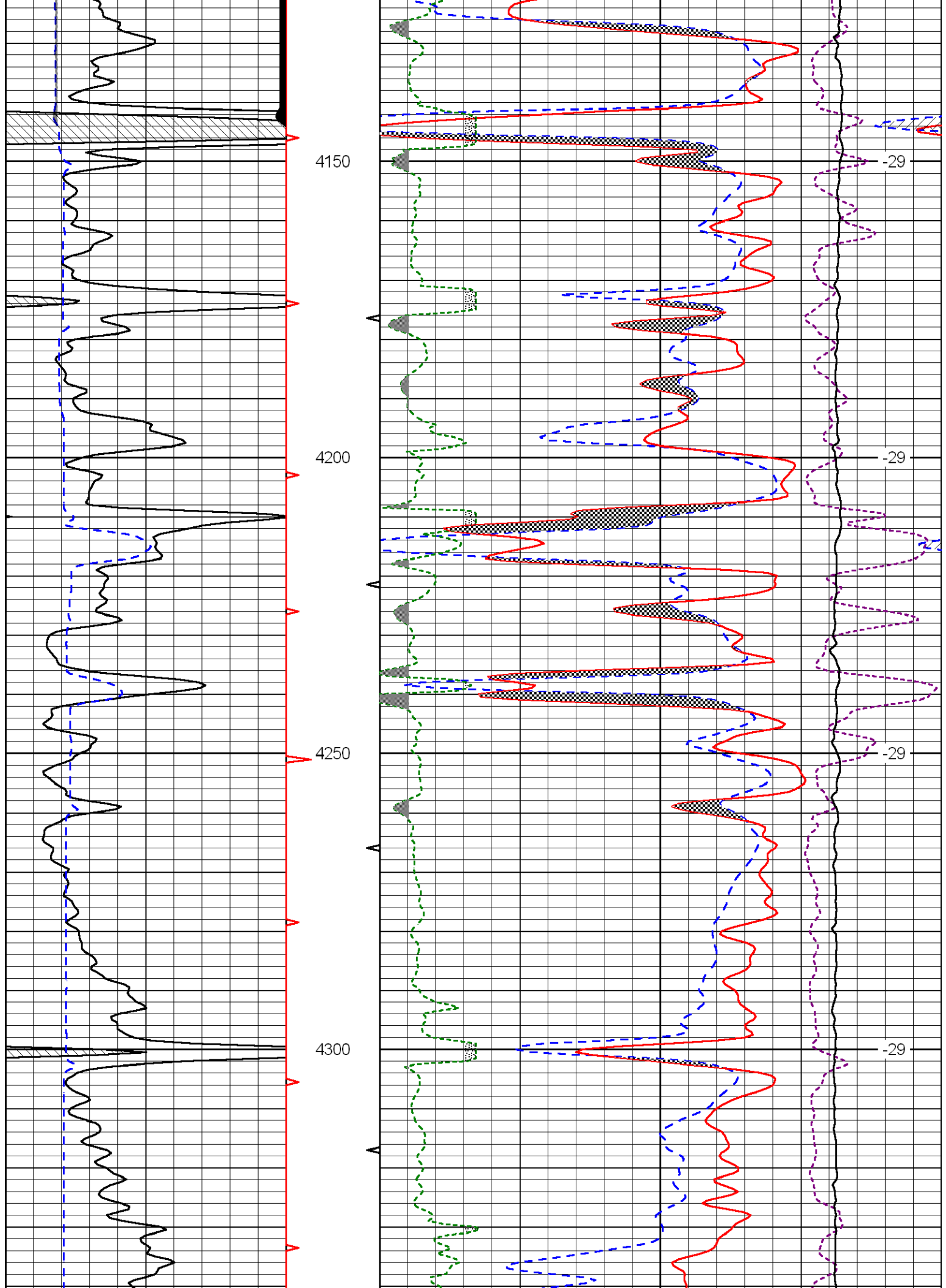


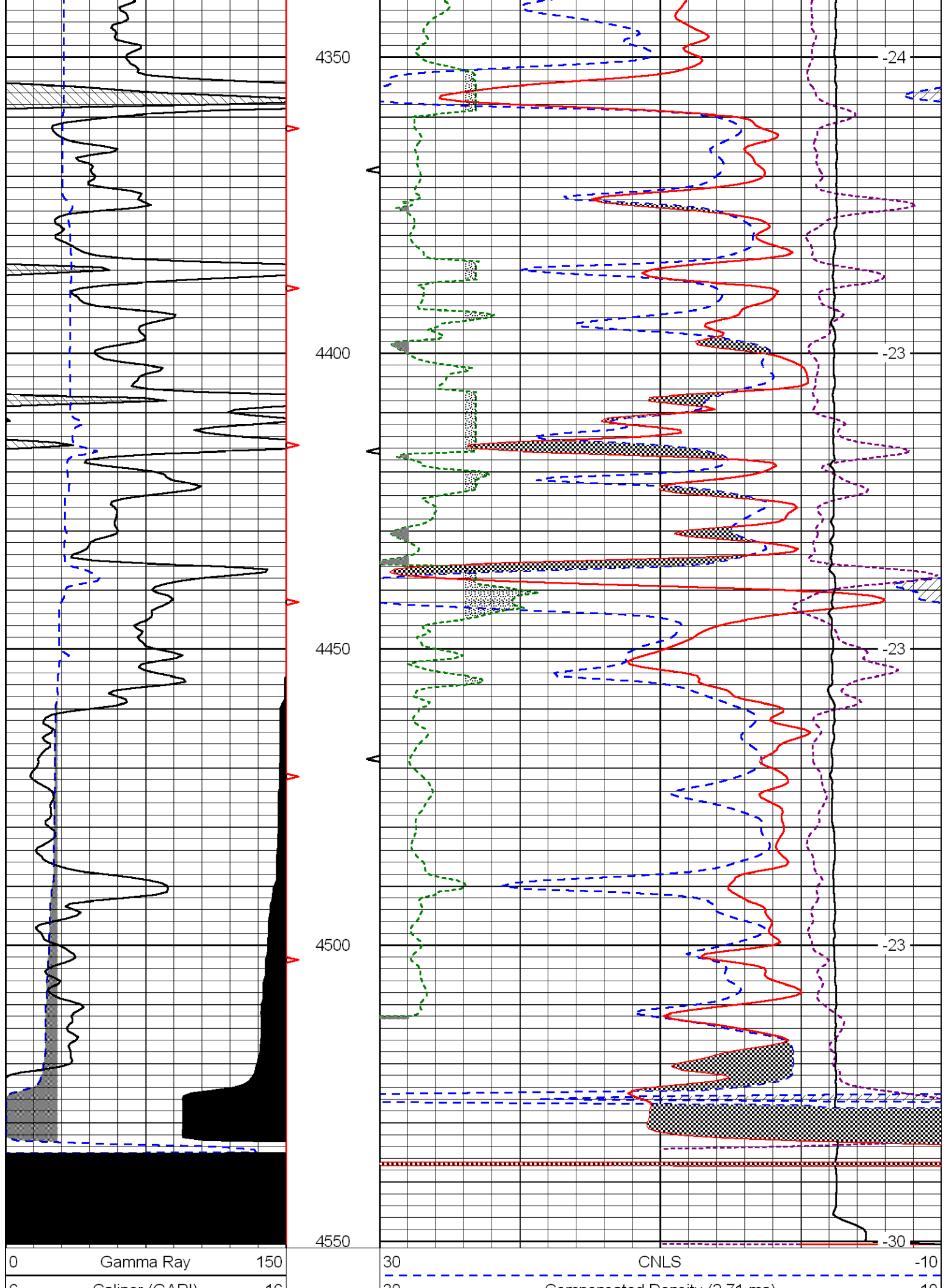
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 Dataset Pathname: dil/hcstack
 Presentation Format: cndlspec
 Dataset Creation: Sun Aug 05 06:51:58 2012
 Charted by: Depth in Feet scaled 1:240











6	Caliper (GAPI)	16
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30	Compensated Density (2.71 ma)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension				0
					LSPD