



Dual Compensated Porosity Log

DIGITAL LOG (785) 625-3858

API No.

15-015-23,845-00-00

Company Noble Petroleum, Inc.

Well Sommers No. 1

Field Plum Grove South

County Butler State Kansas

Location 2310' FNL & 2310' FWL

Other Services
DIL

Sec: 27 Twp: 24 S Rge: 4 E

Permanent Datum Ground Level Elevation 1366

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

K.B. 1375
D.F. 1366
G.L. 1366

Date 11/19/2009

Run Number One

Type Log CNL / CDL

Depth Driller 2640

Depth Logger 2640

Bottom Logged Interval 2619

Top Logged Interval 0

Type Fluid In Hole Chemical

Salinity, PPM CL 1,500

Density 9.4

Level Full

Max. Rec. Temp. F 104

Operating Rig Time 3 1/2 Hours

Equipment -- Location 4 Hays

Recorded By K. Bange

Witnessed By Jerry Honas

Borehole Record

Run No Bit From To Size Wgt. From To

1 12.25 00 201 8.625 24# 00 201

2 7.875 201 2640

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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

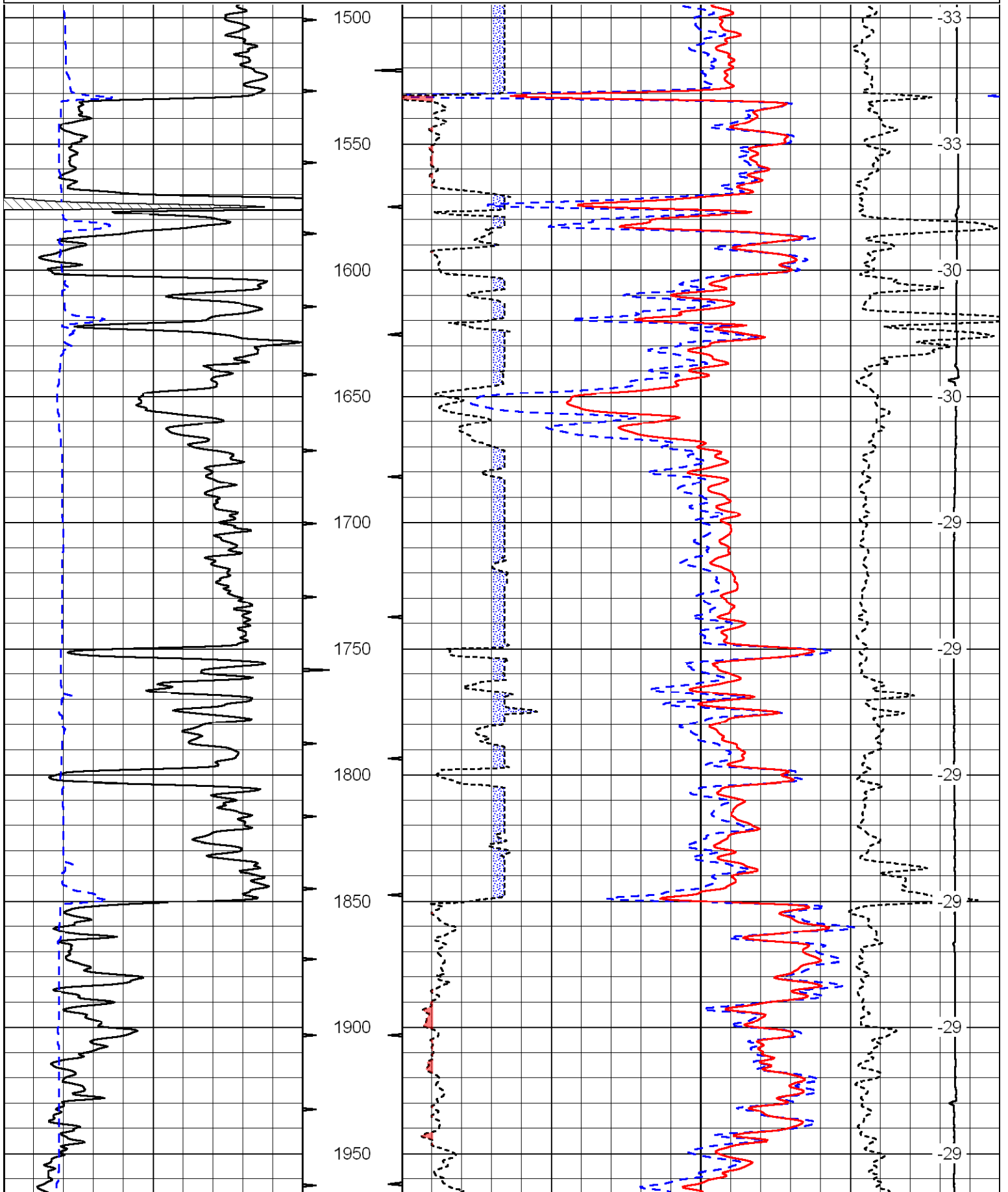
Thank you for using Log-Tech, Inc.
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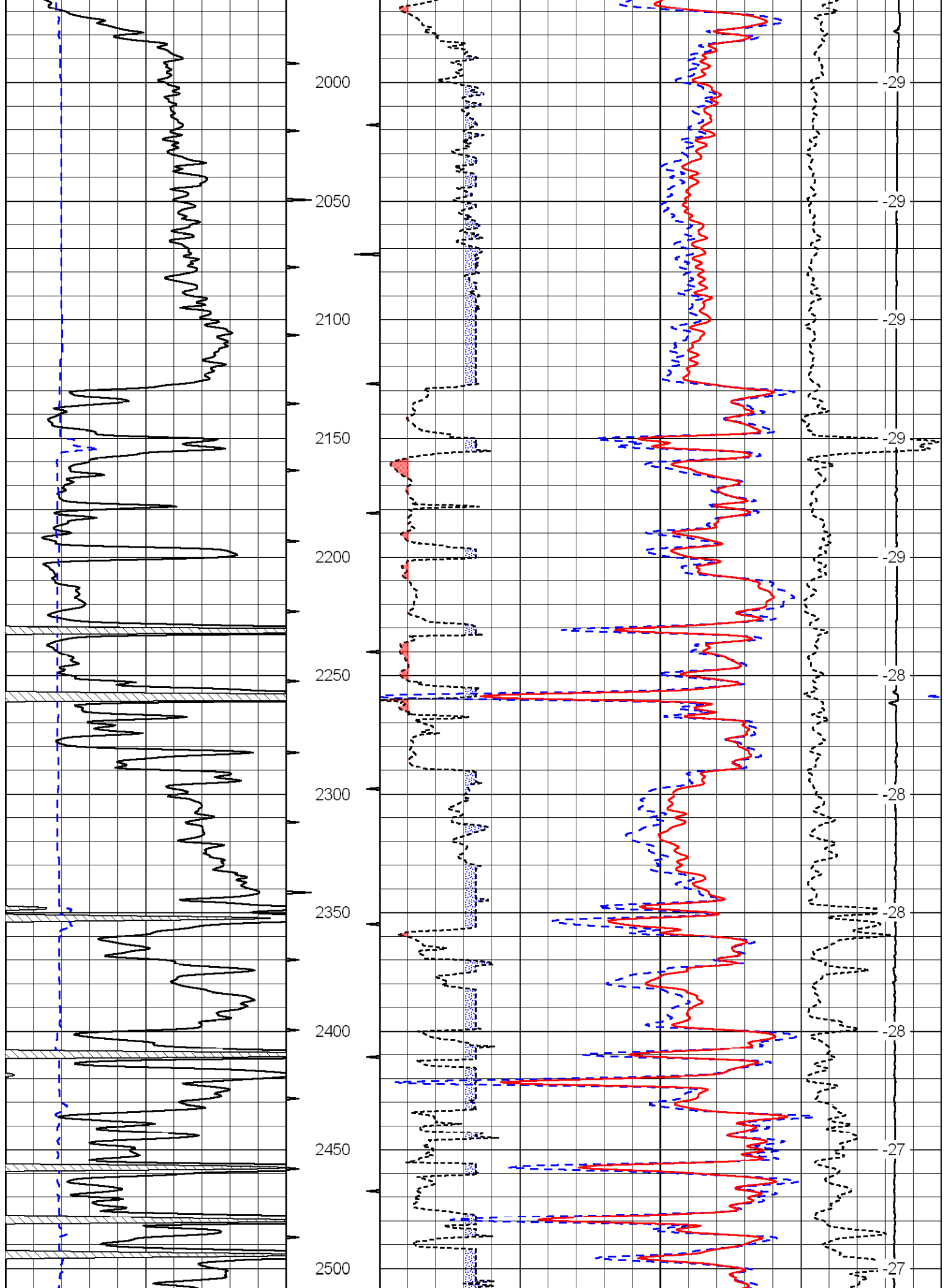
Potwin, 1/2 E to River Valley Rd, 1/2 N, 1 1/2 E, S into

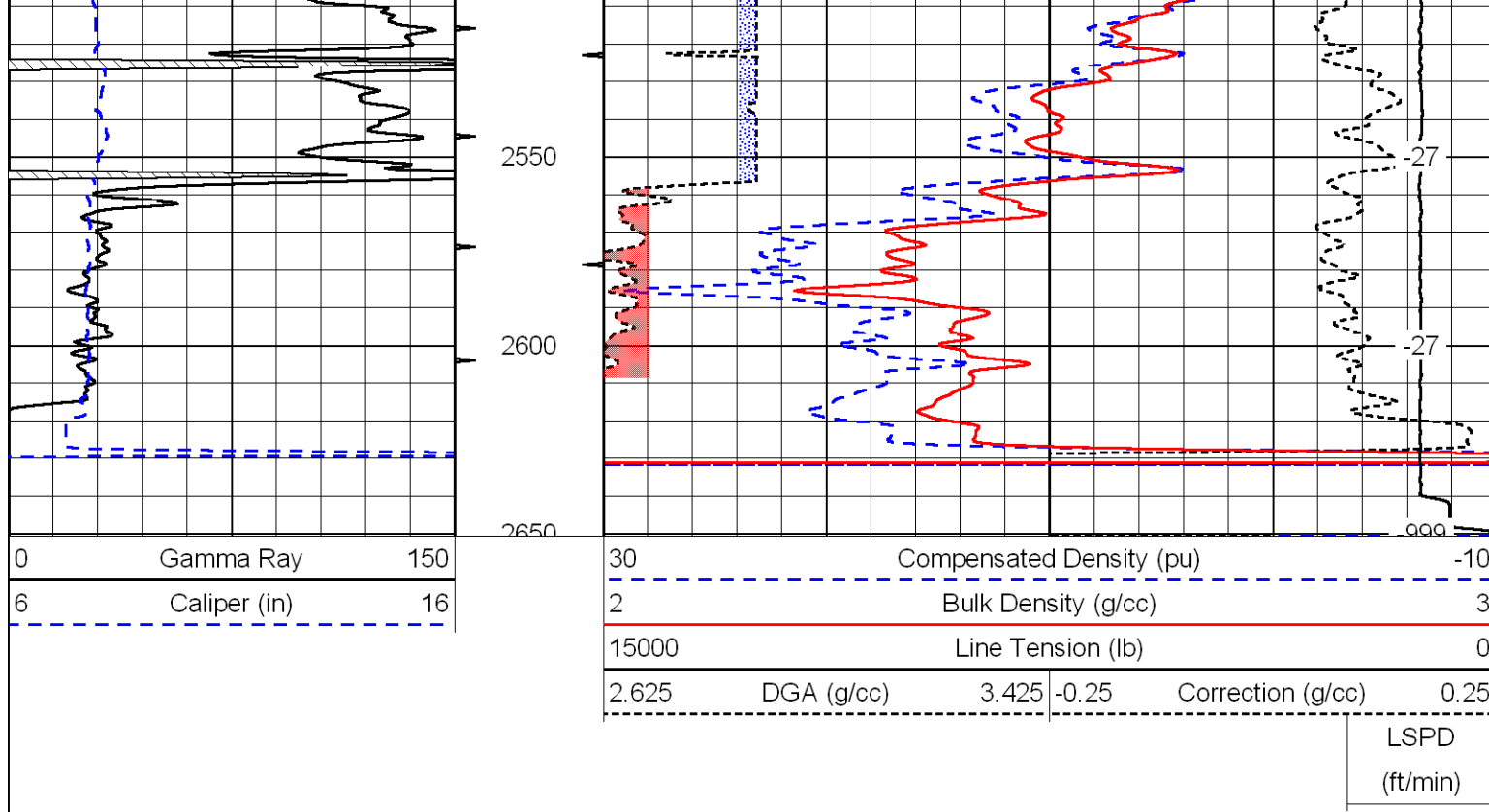
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Dataset Pathname: dil/stack
Presentation Format: cdl
Dataset Creation: Thu Nov 19 11:21:51 2009
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (in)	16

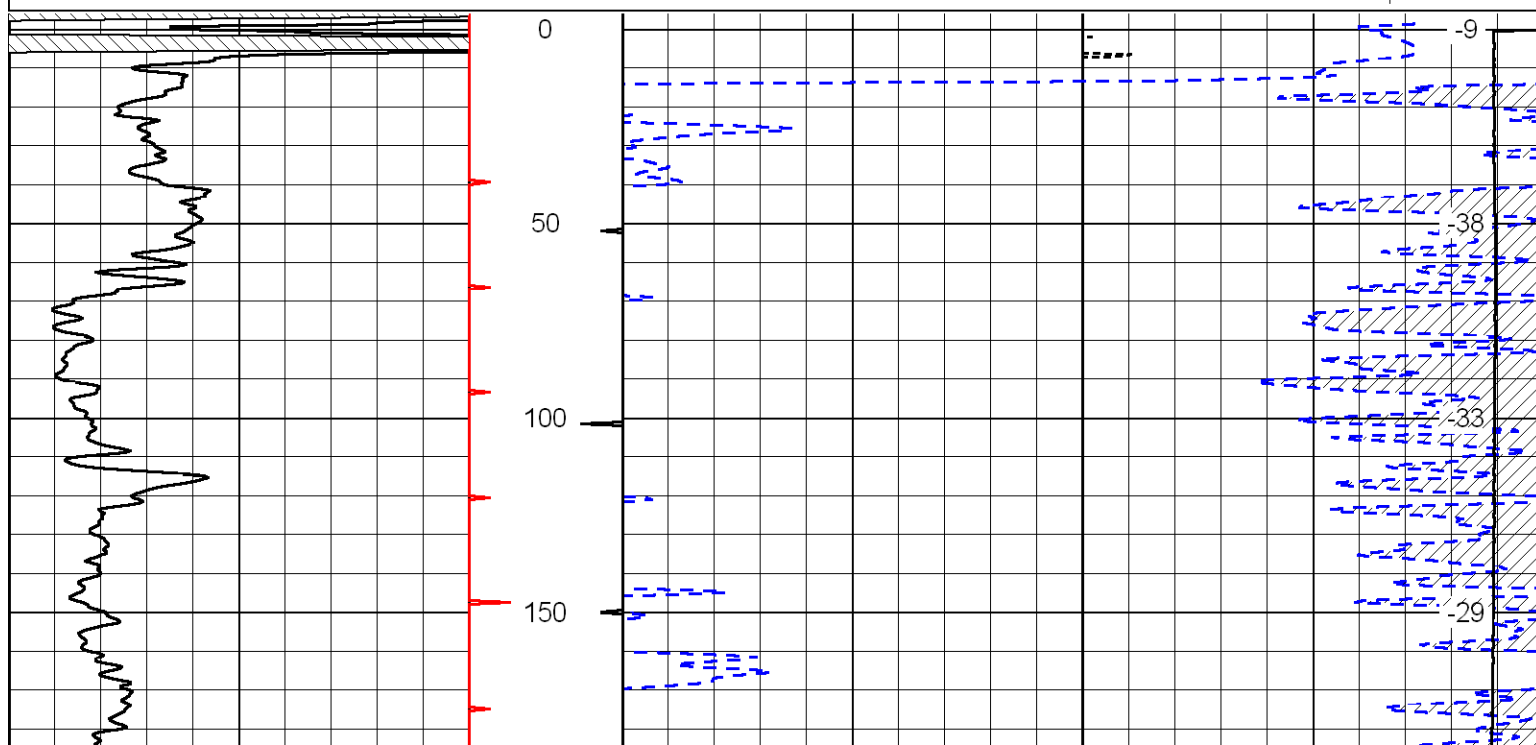
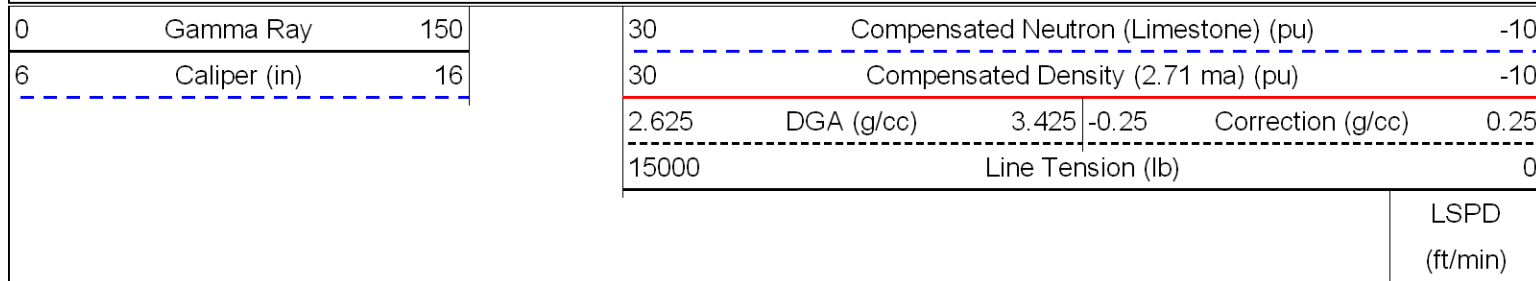
30	Compensated Density (pu)				-10
2	Bulk Density (g/cc)				3
15000	Line Tension (lb)				0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
					LSPD (ft/min)

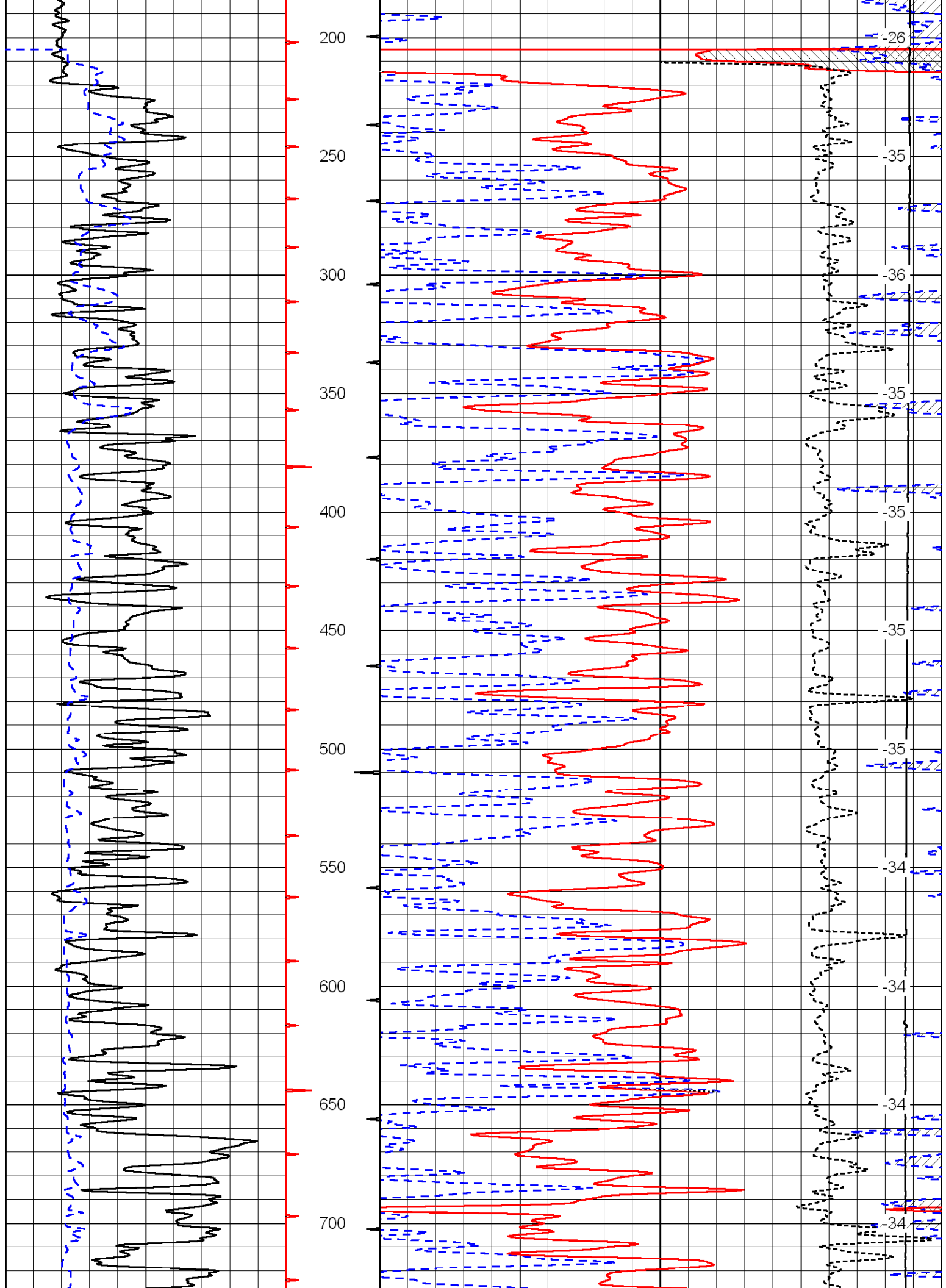


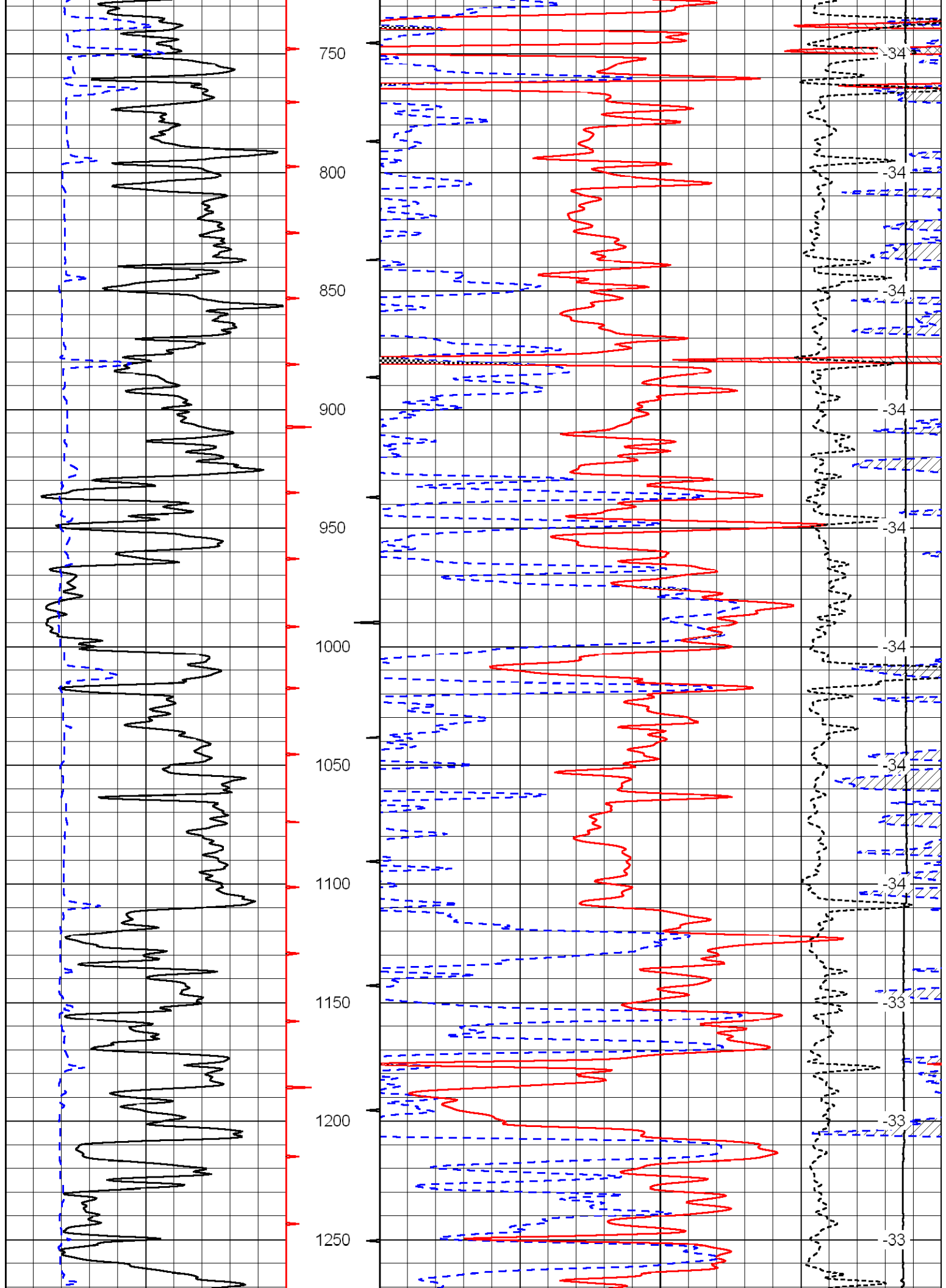


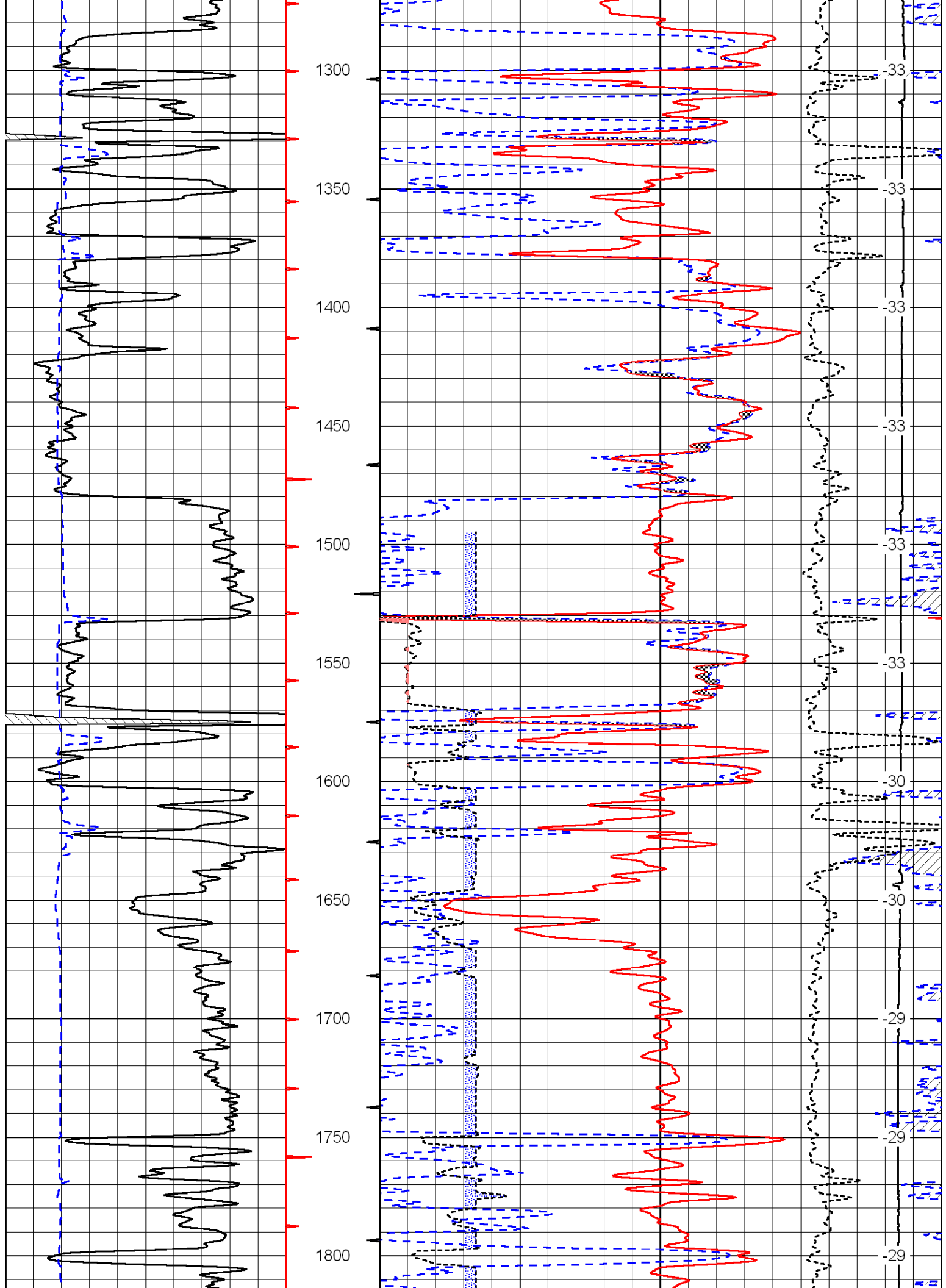


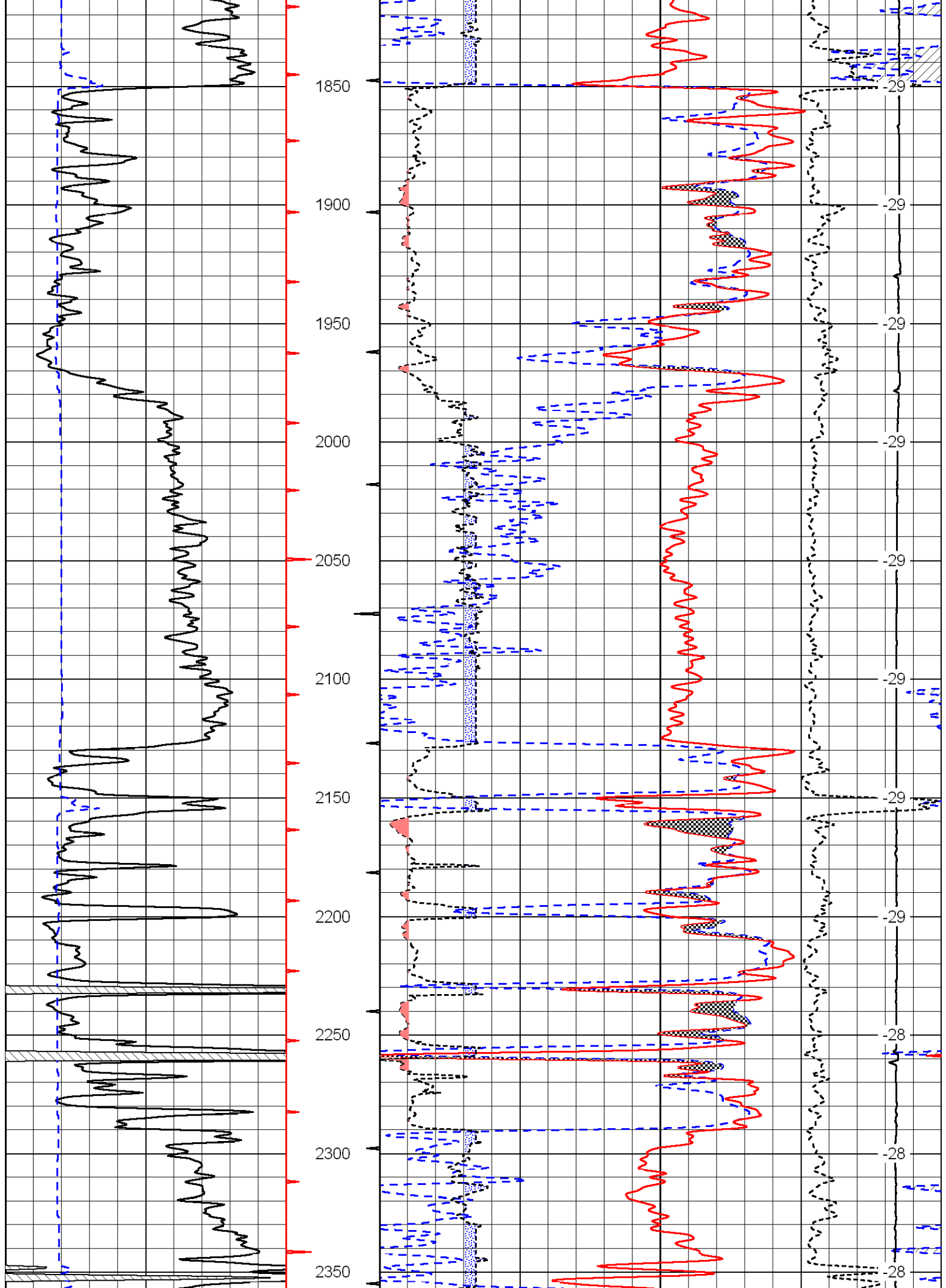
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Dataset Pathname: dil/stack
Presentation Format: cndlspec
Dataset Creation: Thu Nov 19 11:21:51 2009
Charted by: Depth in Feet scaled 1:600

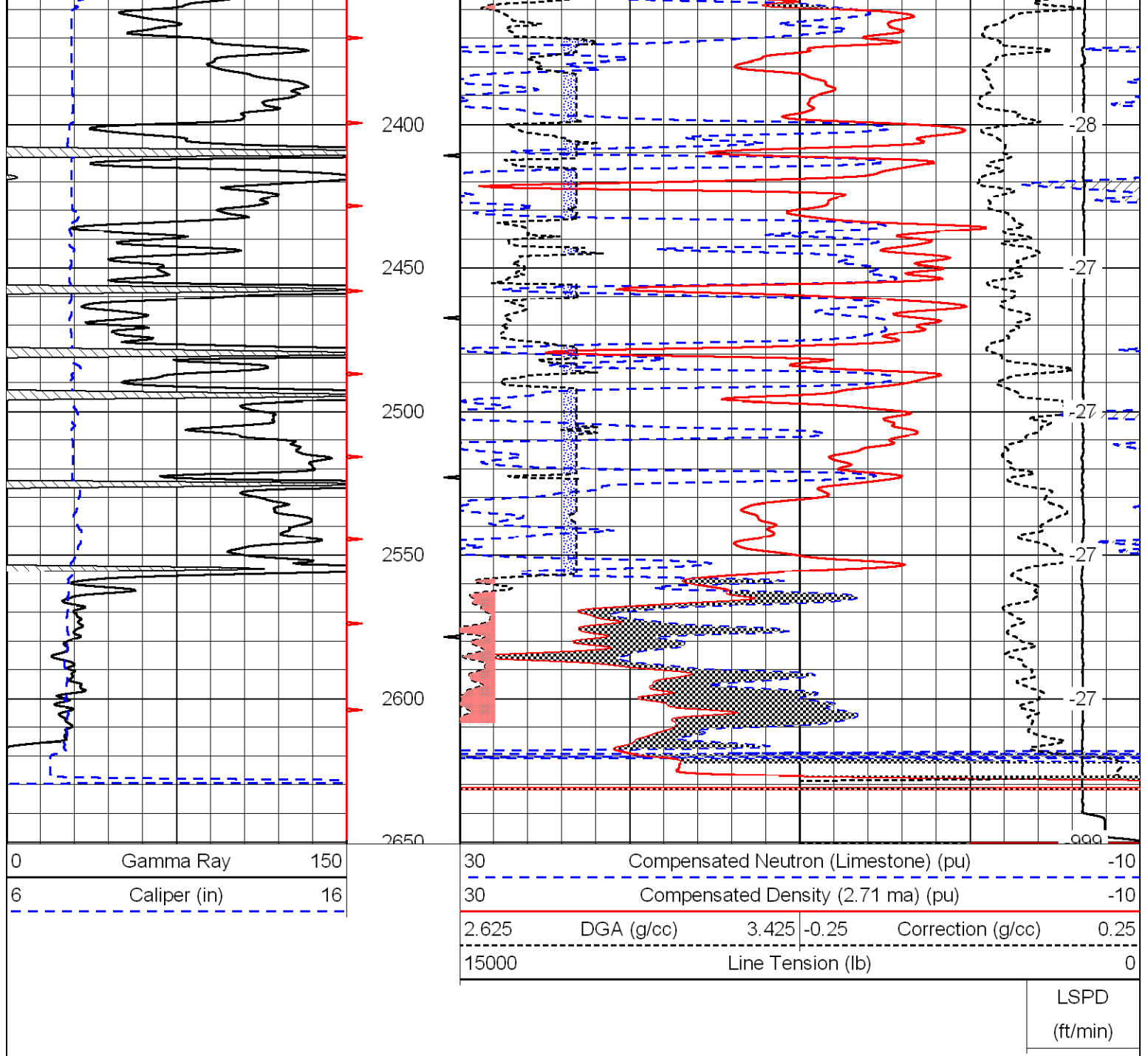












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 Dataset Pathname: dil/stack
 Presentation Format: cndlspec
 Dataset Creation: Thu Nov 19 11:21:51 2009
 Charted by: Depth in Feet scaled 1:240

