



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-163-24,104-00-00

Company Great Plains Energy, Inc.

Well Karr No. 1 - 17

Field Axelson Northeast

County Rocks State Kansas

Location N/2 NW SW SW
1090' FSL & 330' FWL

Other Services
DIL/MEL

Sec: 17 Twp: 7 S Rge: 18 W

Permanent Datum Ground Level Elevation 1932
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1937
D.F.
G.L. 1932

Date

3/16/2013

Run Number

One

Type Log

CNL / CDL

Depth Driller

3458

Depth Logger

3459

Bottom Logged Interval

3438

Top Logged Interval

2600

Type Fluid In Hole

Chemical

Salinity, PPM CL

2100

Density

8.9

Level

Full

Max. Rec. Temp. F

111

Operating Rig Time

4 Hours

Equipment -- Location

108 Hays

Recorded By

D. Martin

Witnessed By

Larry Nicholson

Borehole Record

Casing Record

Run No.

From

To

Size

Wgt.

From

To

One

12.25

00

218

8.625

23#

00

218

Two

7.875

218

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

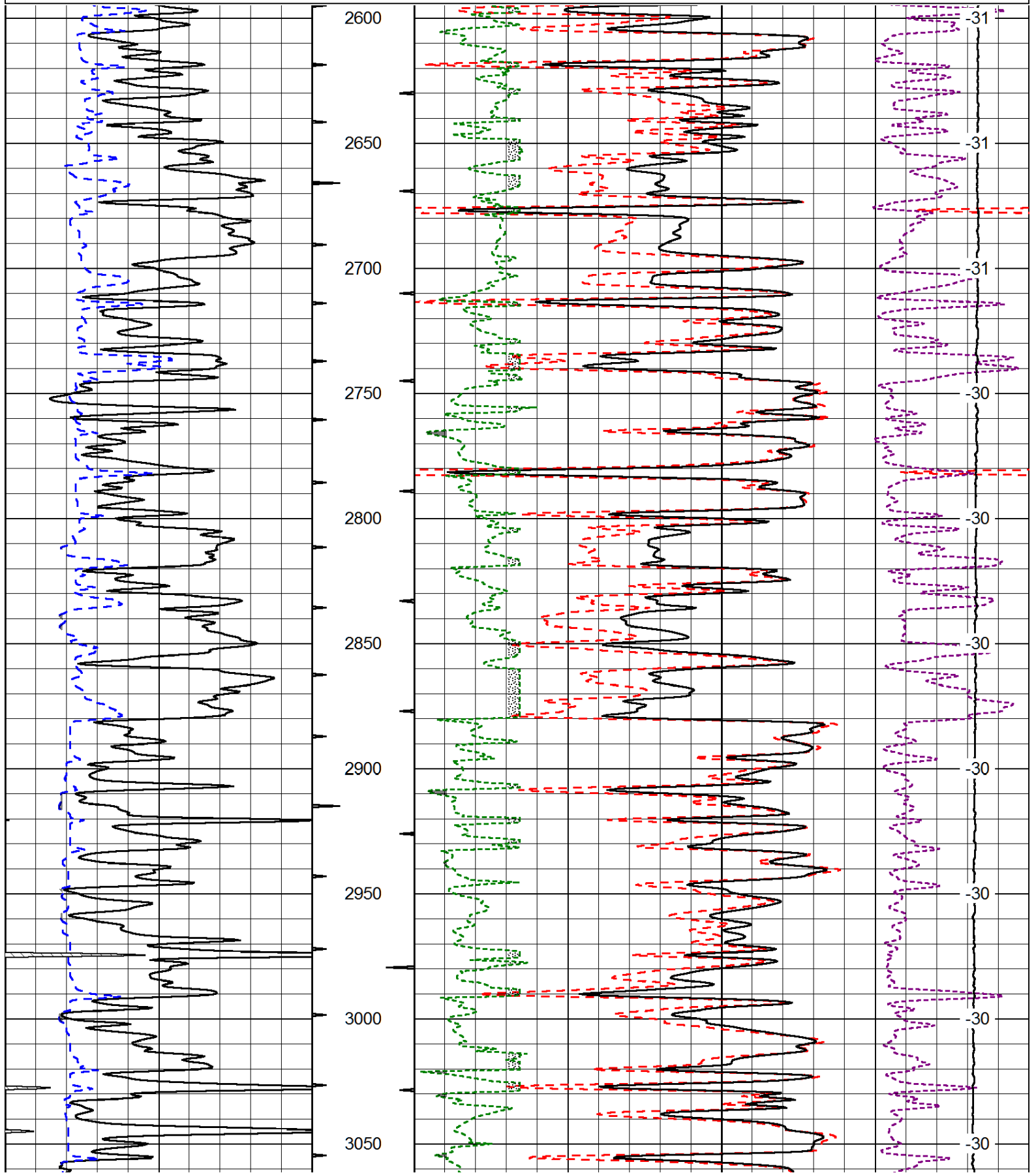
Thank you for using Log-Tech, Inc.
(785) 625-3858

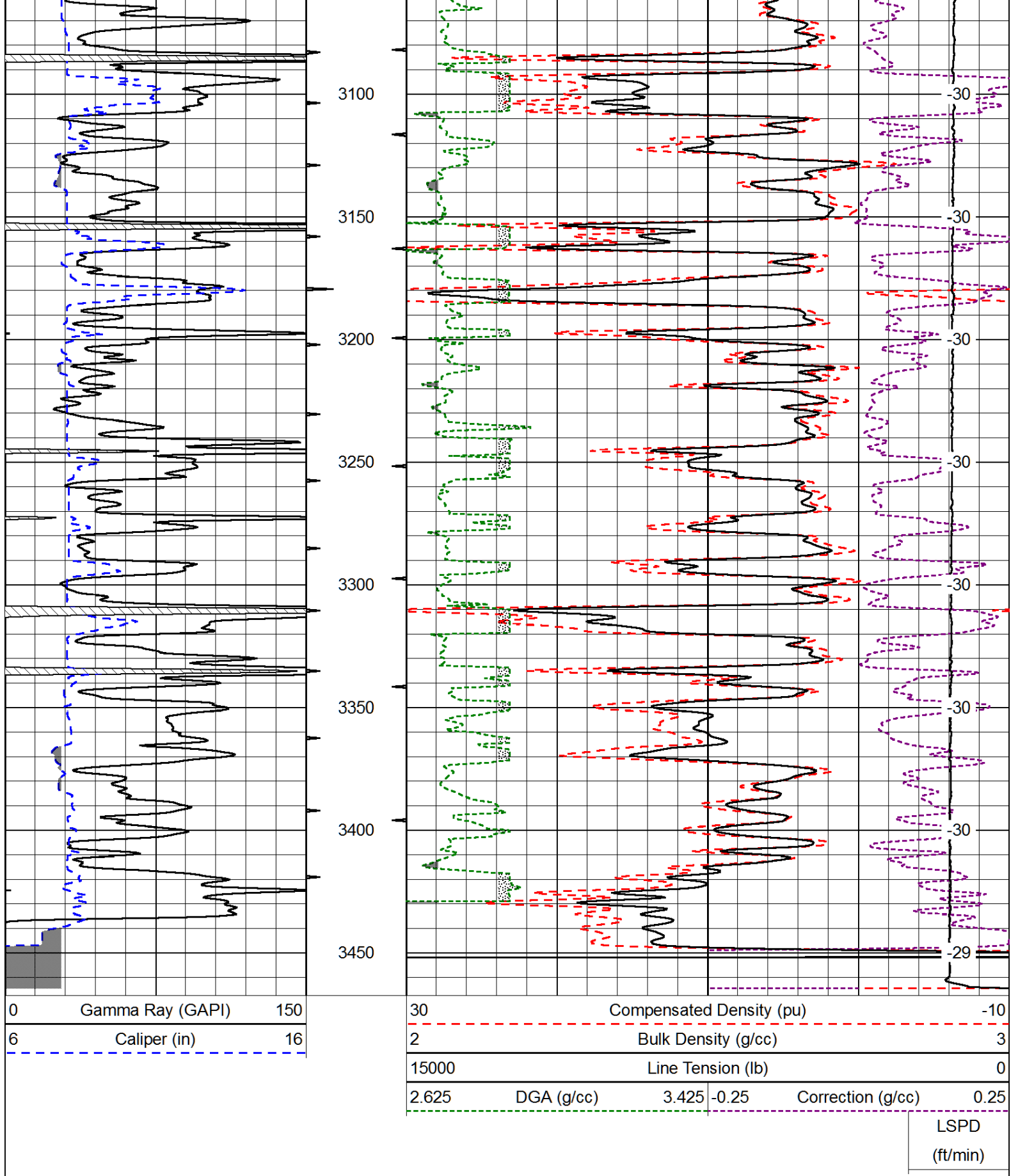
Stockton, KS
3 W on Highway to Curve,
1 W on J Rd., 1/4 N, E Into

Database File: grplhd.db
Dataset Pathname: DIL/grplstk
Presentation Format: cdl
Dataset Creation: Sat Mar 16 05:00:50 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)





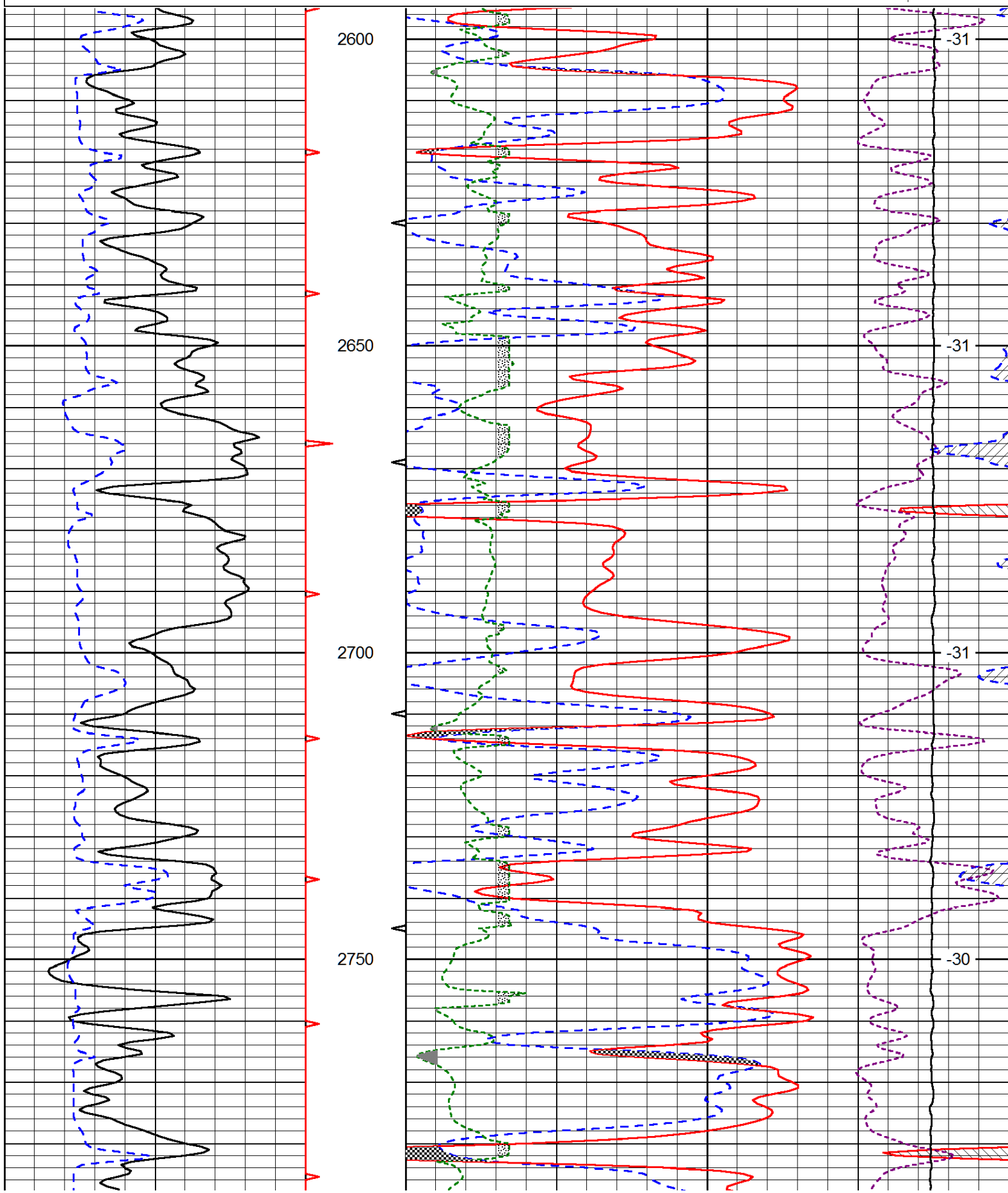
Database File: grplhd.db
 Dataset Pathname: DIL/grplstk
 Presentation Format: cndlspec
 Dataset Creation: Sat Mar 16 05:00:50 2013
 Charted by: Depth in Feet scaled 1:240

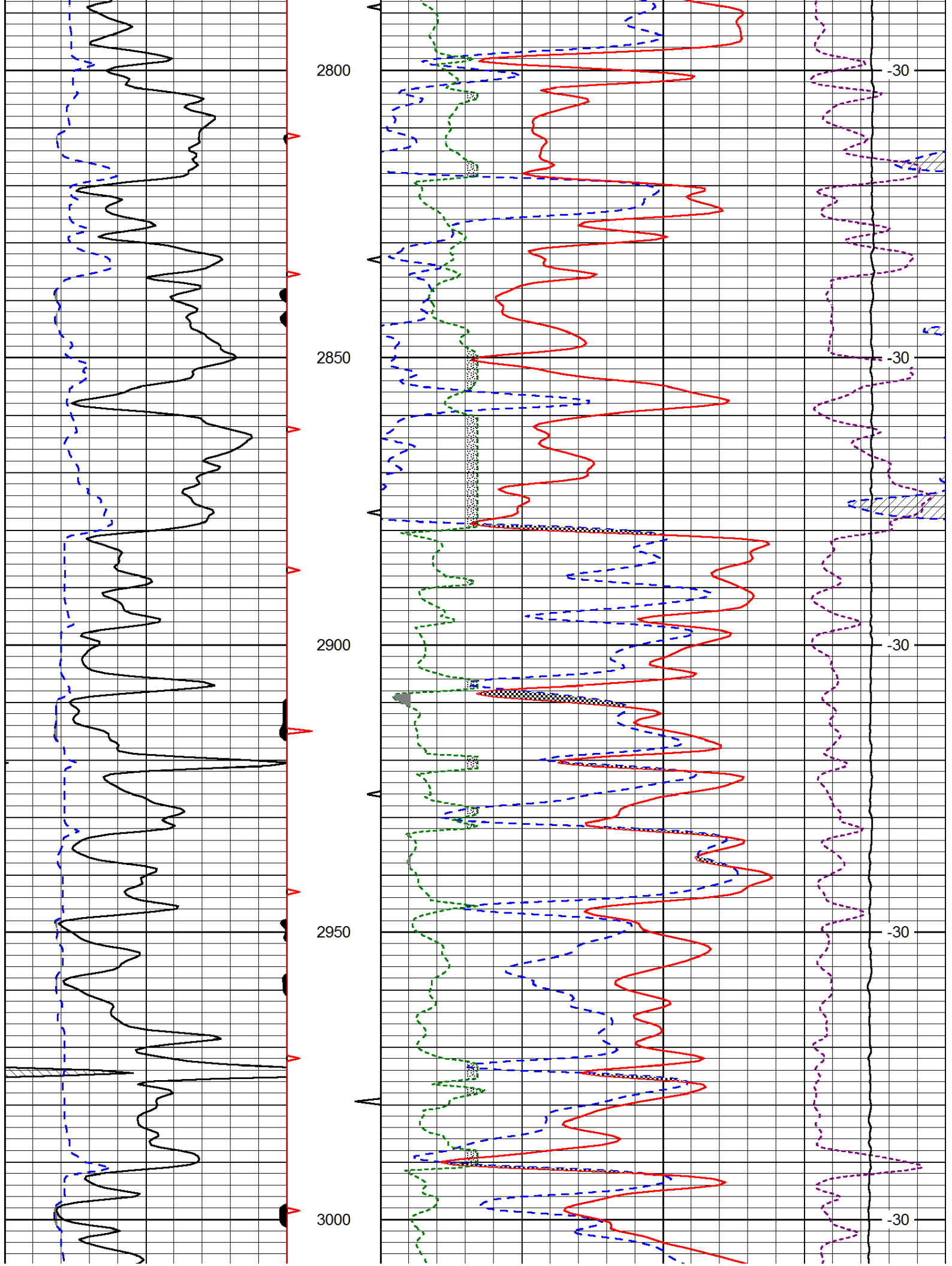


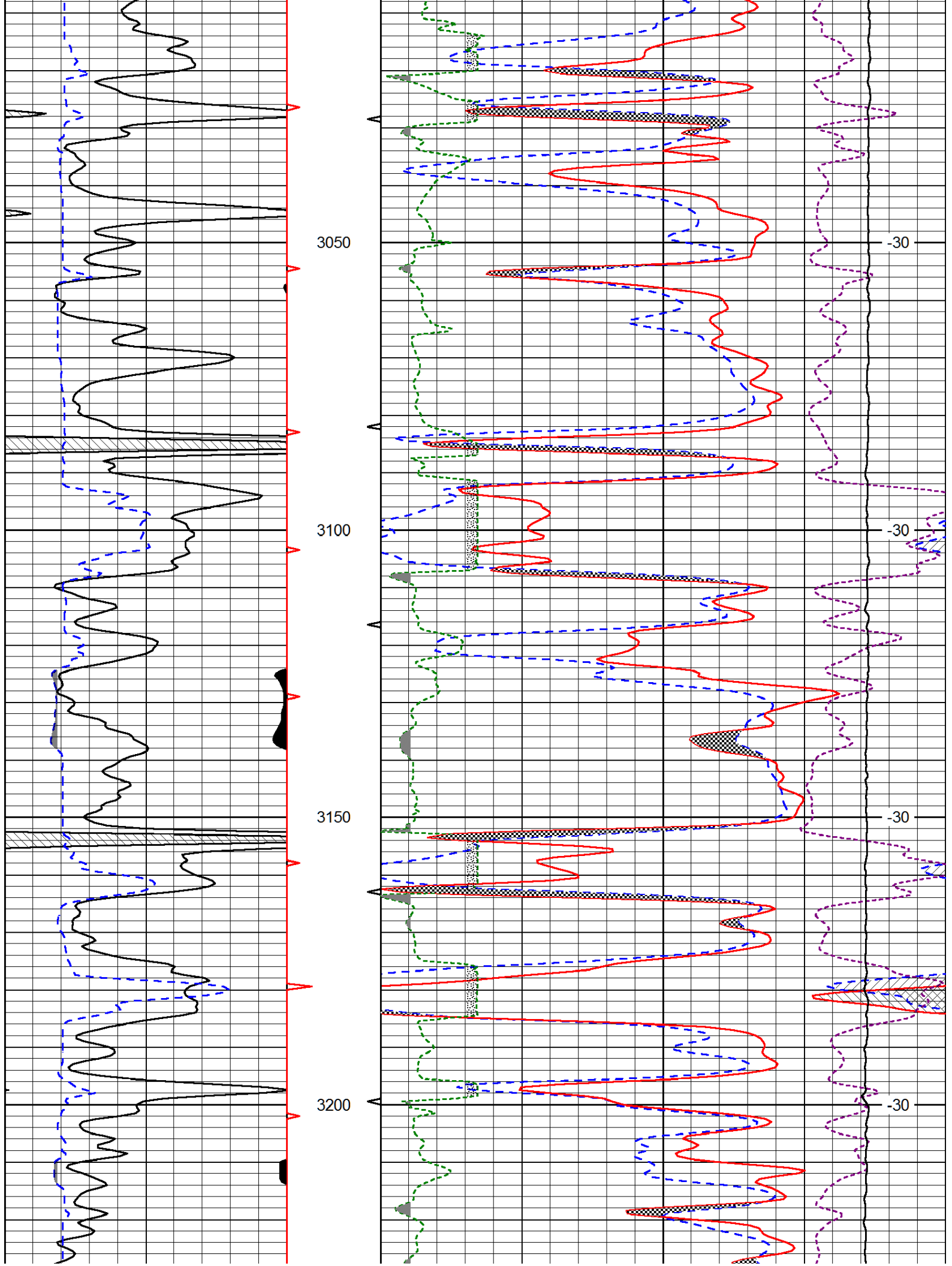
Gamma Ray (API) 100
6 Caliper (in) 16

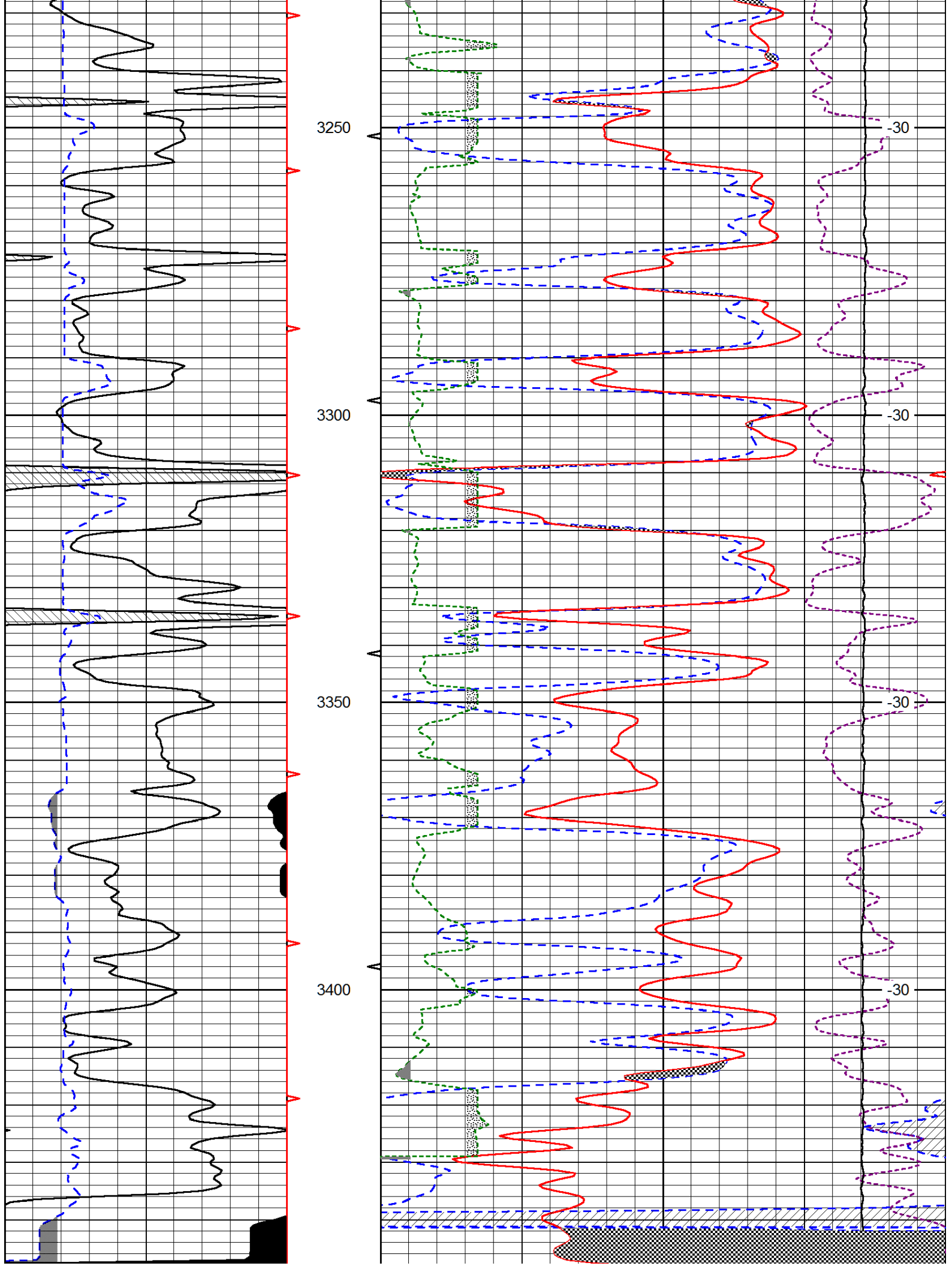
30 Compensated Density (2.71 ma) (pu) 10
2.625 DGA (g/cc) 3.425 -0.25 Correction (g/cc) 0.25
10000 Line Tension (lb) 0

LSPD
(ft/min)



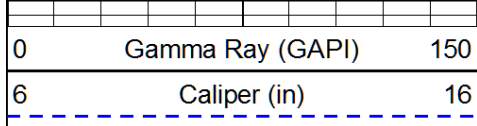






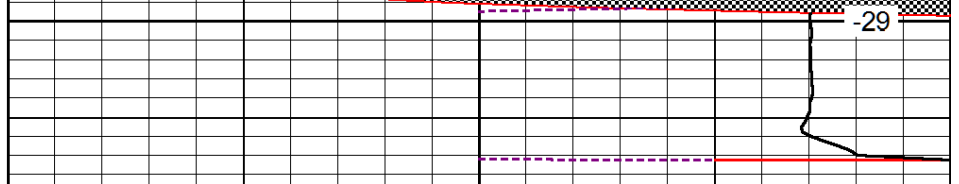
3450

29



0	Gamma Ray (GAPI)	150
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6	Caliper (in)	16
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30	CNLS (pu)	-10
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30	Compensated Density (2.71 ma) (pu)	-10
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2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
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10000	Line Tension (lb)	0
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LSPD
(ft/min)