



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-051-26,502-00-00

Company TDI, Inc.

Well Zimmerman Unit No.1

Field Schoenchen

County Ellis

State Kansas

Location 1480' FNL & 1725' FEL

Other Services
DIL/MEL

Sec: 22 Twp: 15S Rge: 18W

Permanent Datum Ground Level Elevation 2028
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2038
D.F. 2038
G.L. 2028

Date

5/12/2013

Run Number

One

Type Log

CNL / CDL

Depth Driller

3750

Depth Logger

3750

Bottom Logged Interval

3729

Top Logged Interval

2900

Type Fluid In Hole

Chemical

Salinity, PPM CL

3.500

Density

9.5

Level

Full

Max. Rec. Temp. F

114

Operating Rig Time

3 1/2 Hours

Equipment -- Location

10 Hays

Recorded By

C. Desaire

Witnessed By

Tom Denning

Herb Deines

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

222

8.625

23#

00

222

Two

7.875

222

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

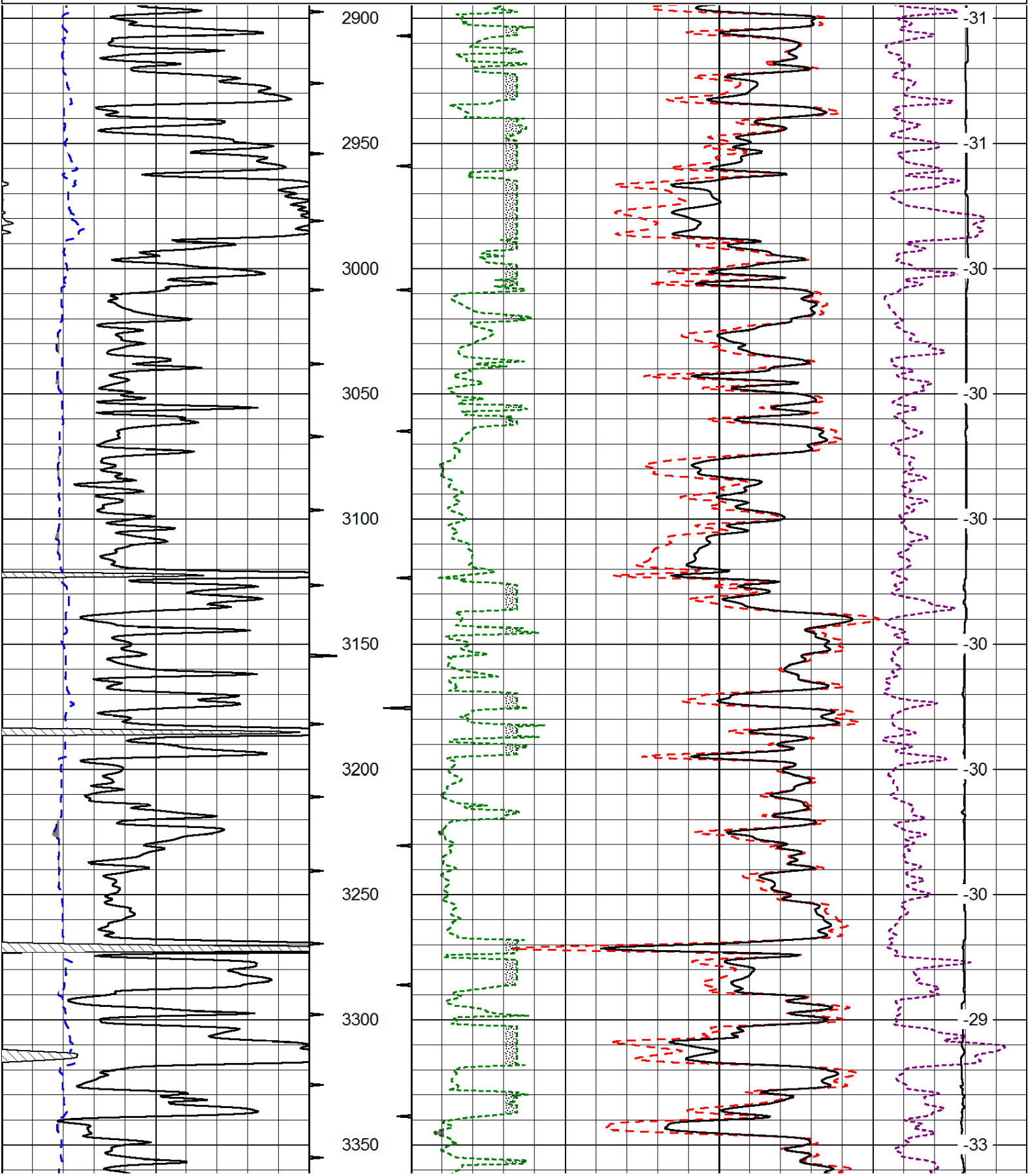
Thank you for using Log-Tech, Inc.
(785) 625-3858

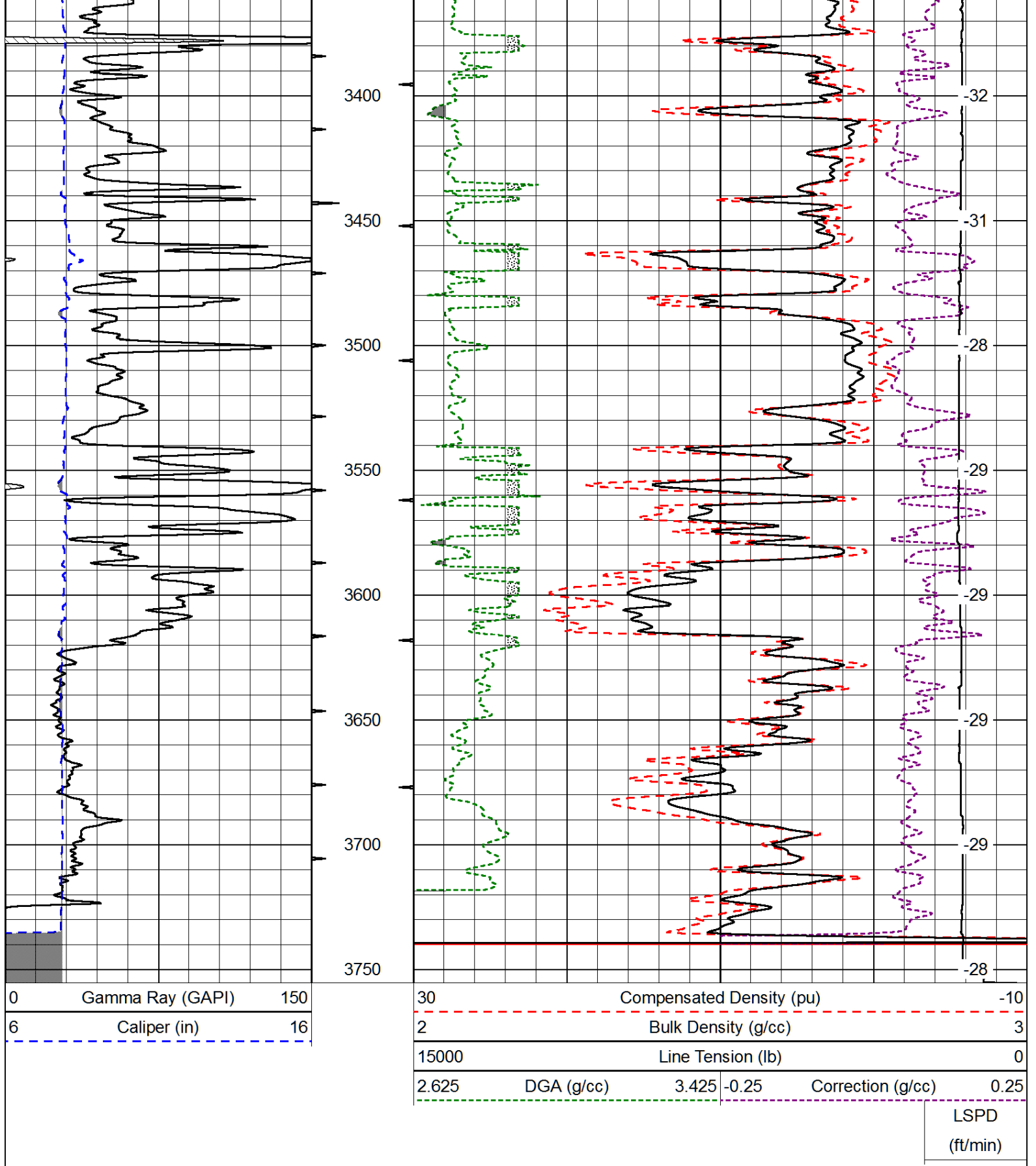
Hays KS, S to Mack Dealer,
1 E, 1/2 S, W-NW Into

Database File: tdihd.db
Dataset Pathname: dil/tdistk
Presentation Format: cdl
Dataset Creation: Sun May 12 18:34:38 2013
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

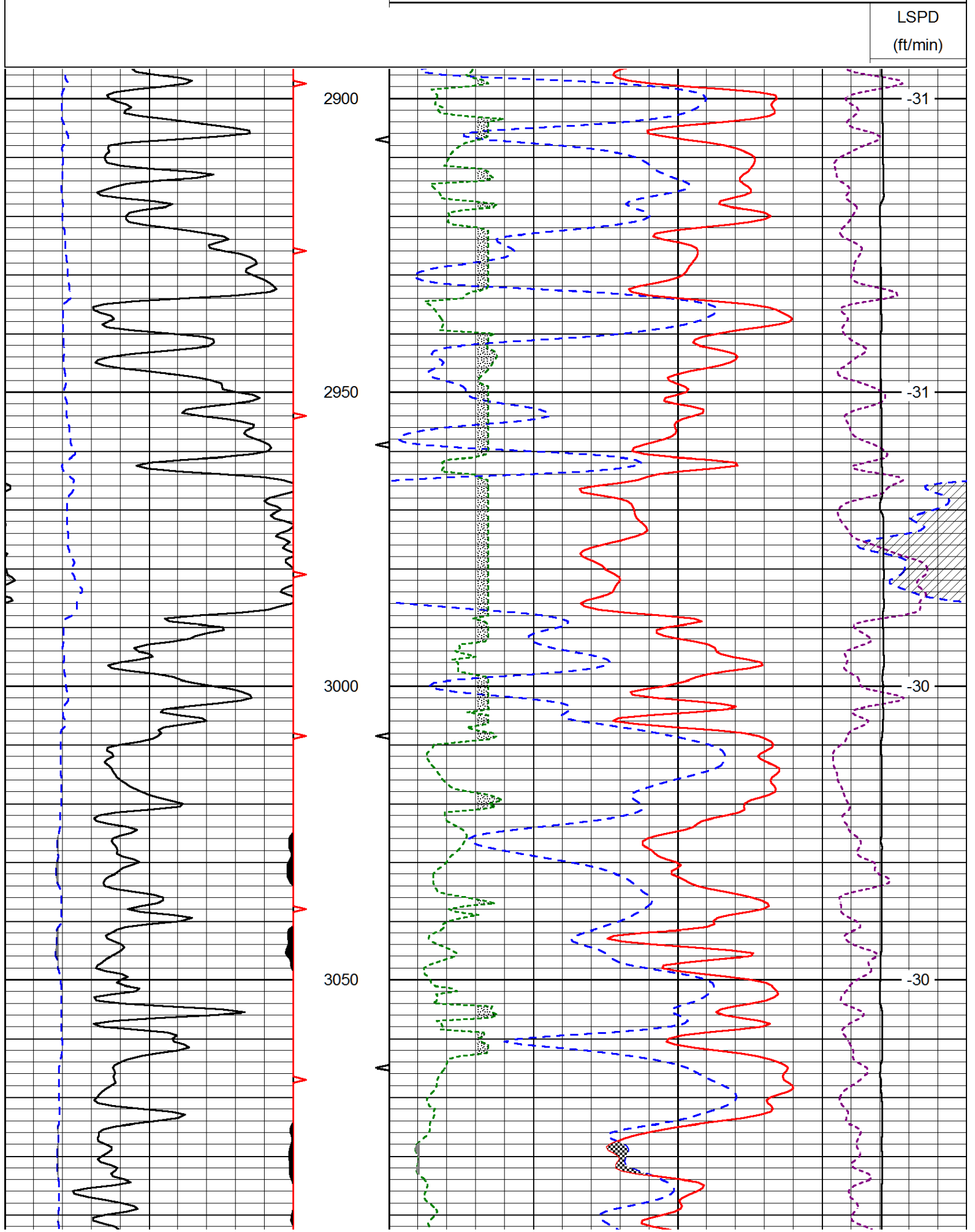
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25
			LSPD (ft/min)

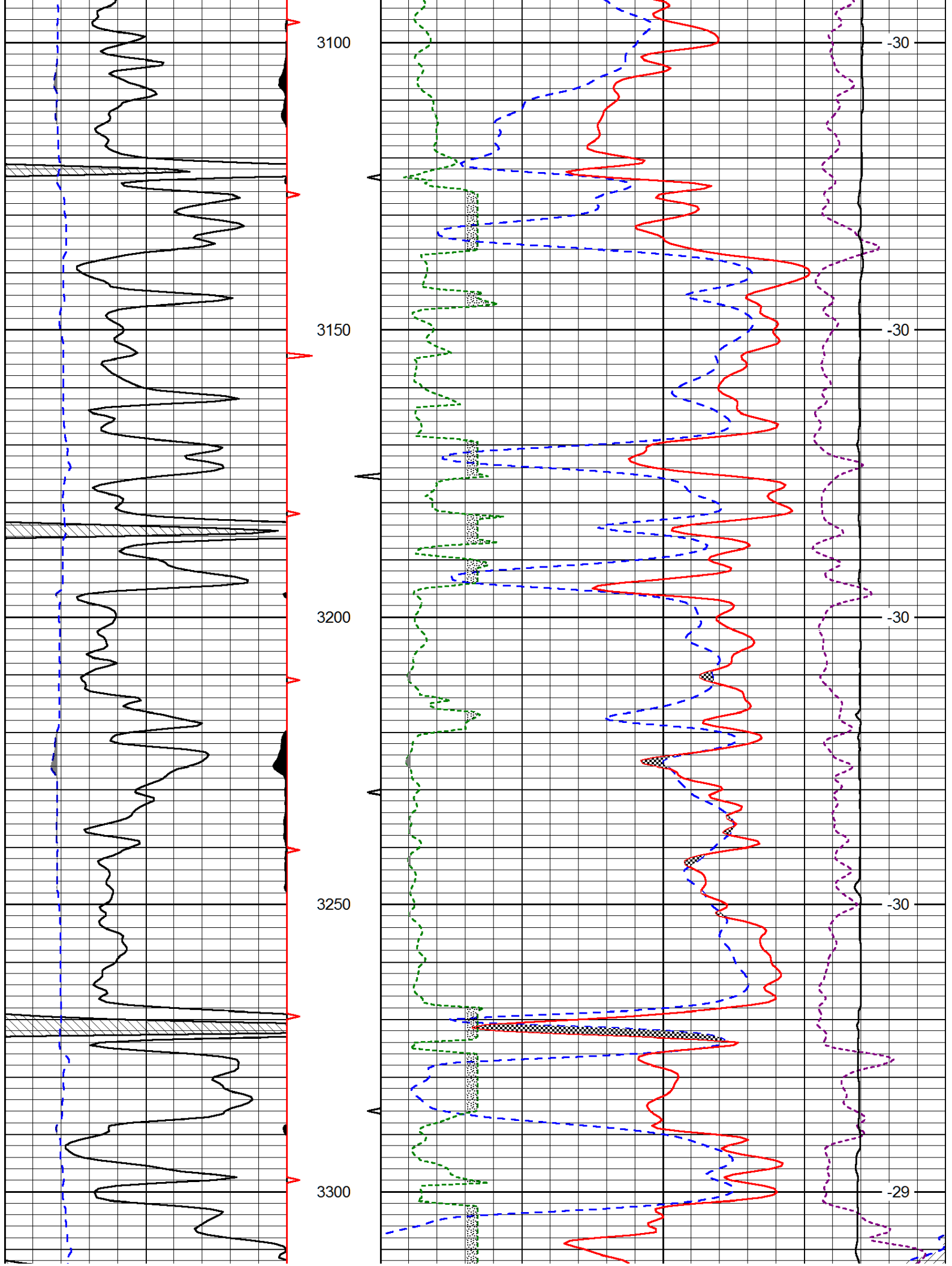


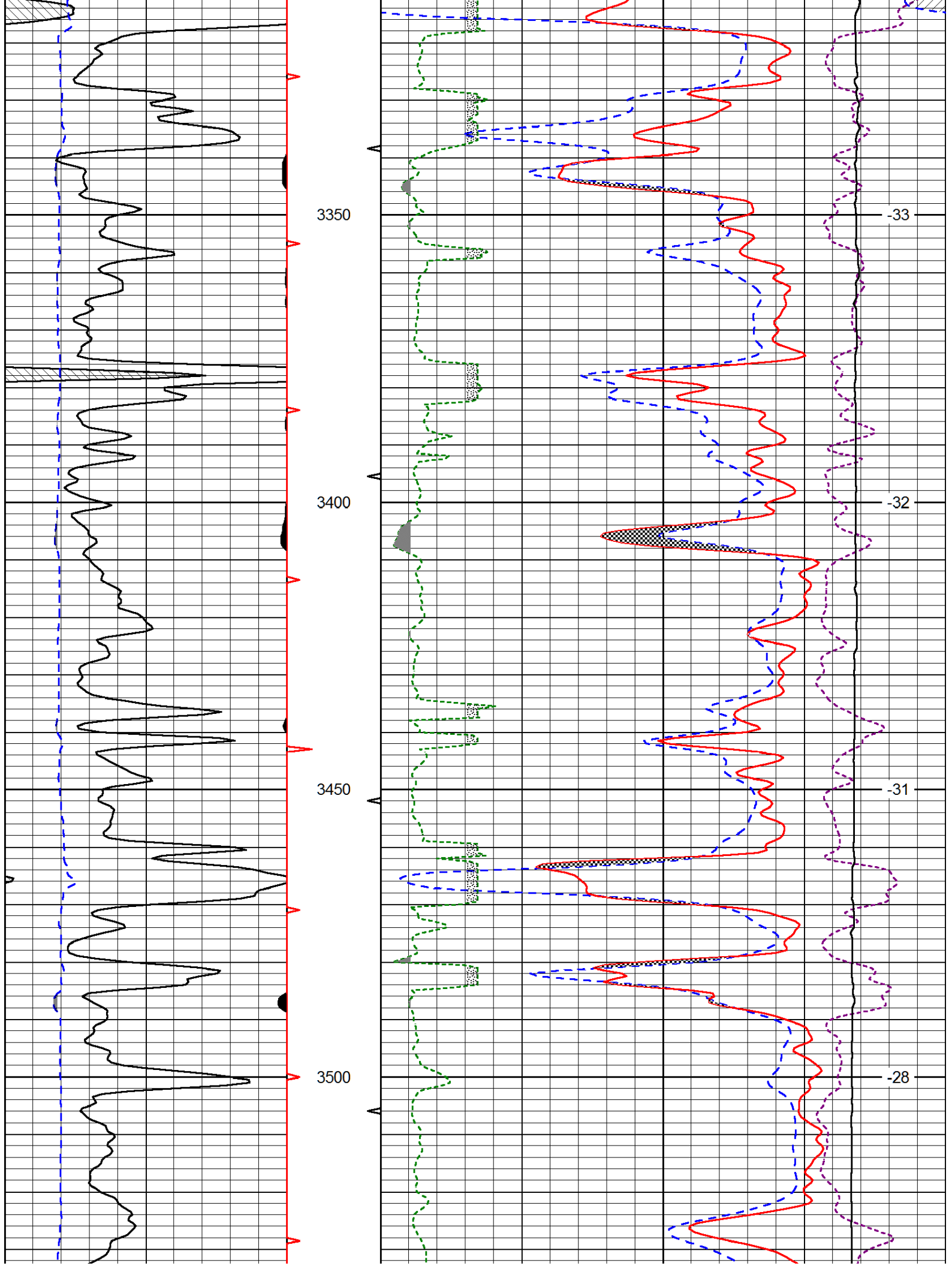


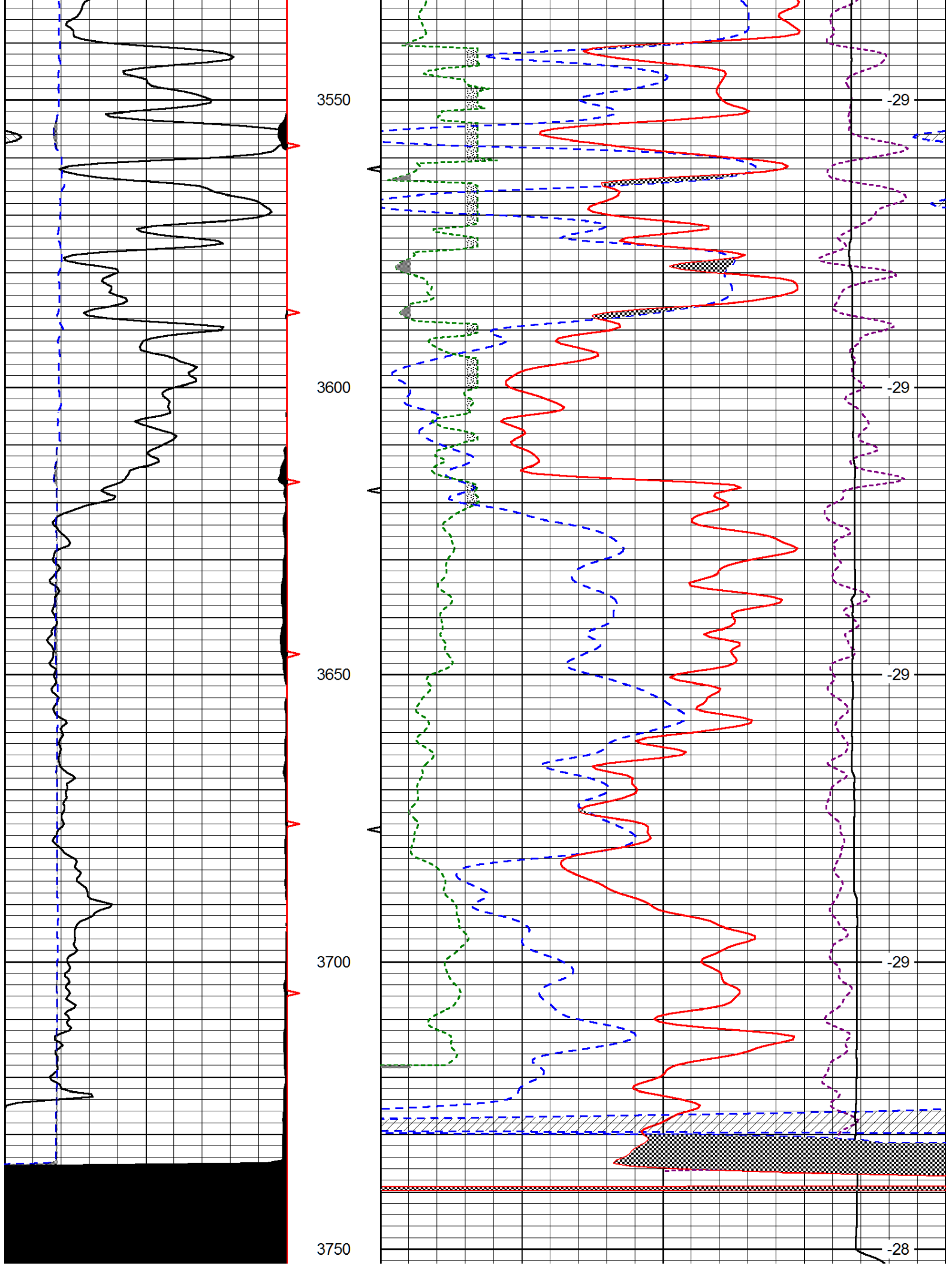
Database File: tdihd.db			
Dataset Pathname: dil/tdistk			
Presentation Format: cndlspec			
Dataset Creation: Sun May 12 18:34:38 2013			
Charted by: Depth in Feet scaled 1:240			
0	Gamma Ray (GAPI)	150	30
6	Caliper (in)	16	30
		CNLS (pu)	
		Compensated Density (2 71 ma) (pu)	

2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0









0	Gamma Ray (GAPI)	150	30 CNLS (pu)					-10
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)