PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-009-25,848-00-00

Company Bird Dog Oil, LLC

Well Beaver S-Kory No. 1-27

Field Beaver South

County Barton State Kansas

Location 2,300' FNL & 420' FWL

Sec: 27 Twp: 16S Rge: 12W

Other Services
DIL
MEL/BHCS

Permanent Datum	Ground Level	Elevation 1888	Elevation
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	K.B. 1896
Drilling Measured From	Kelly Bushing		D.F.
			G.L. 1888

Date	7/2/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3420
Depth Logger	3415
Bottom Logged Interval	3394
Top Logged Interval	2650
Type Fluid In Hole	Chemical
Salinity, PPM CL	5500
Density	9.3
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	4 Hours
Equipment -- Location	108 Hays
Recorded By	J. Long
Witnessed By	Adam Nighswonger

Borehole Record

Run No.	Bit	From	To
One	12.25	00	381
Two	7.875	381	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	381

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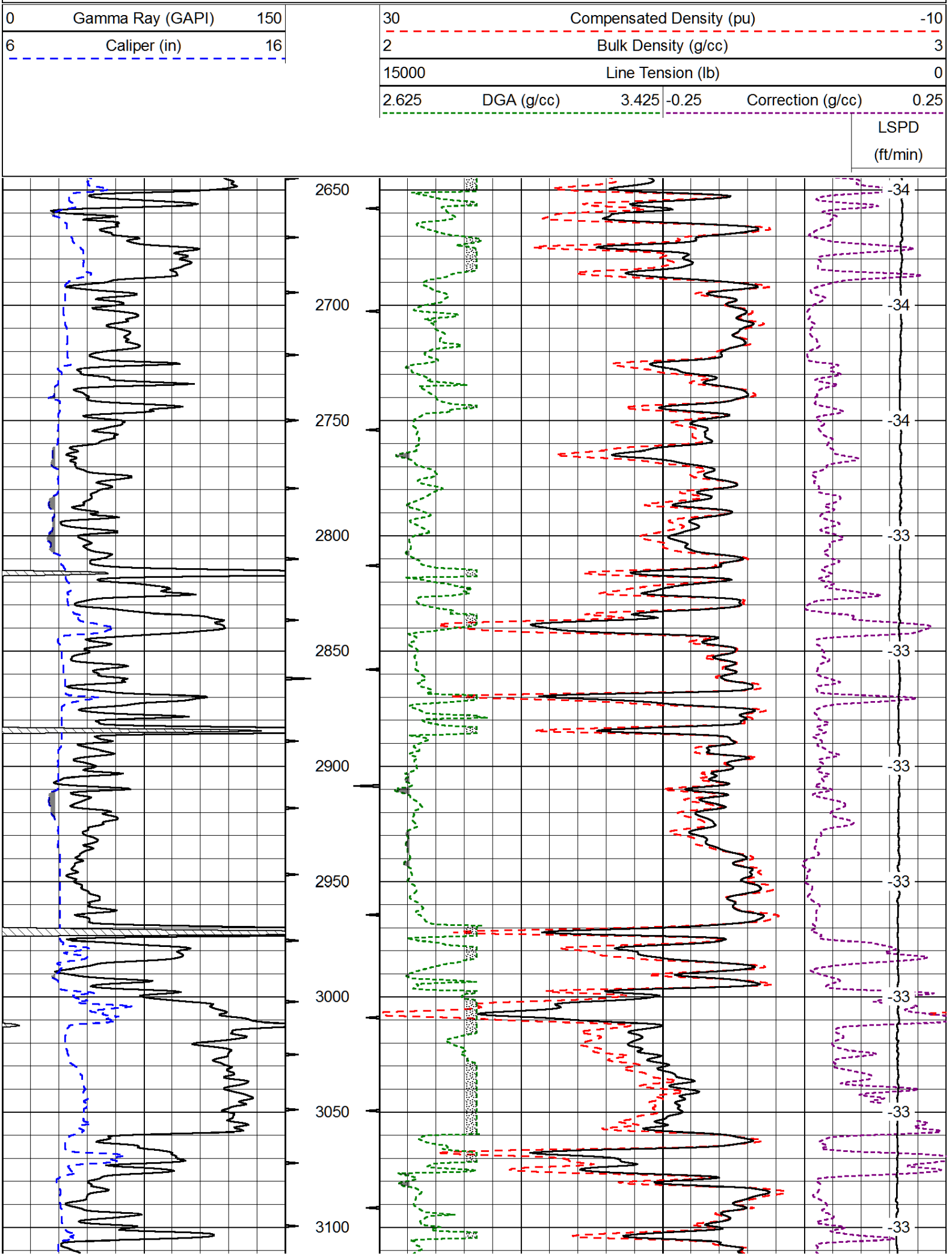
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

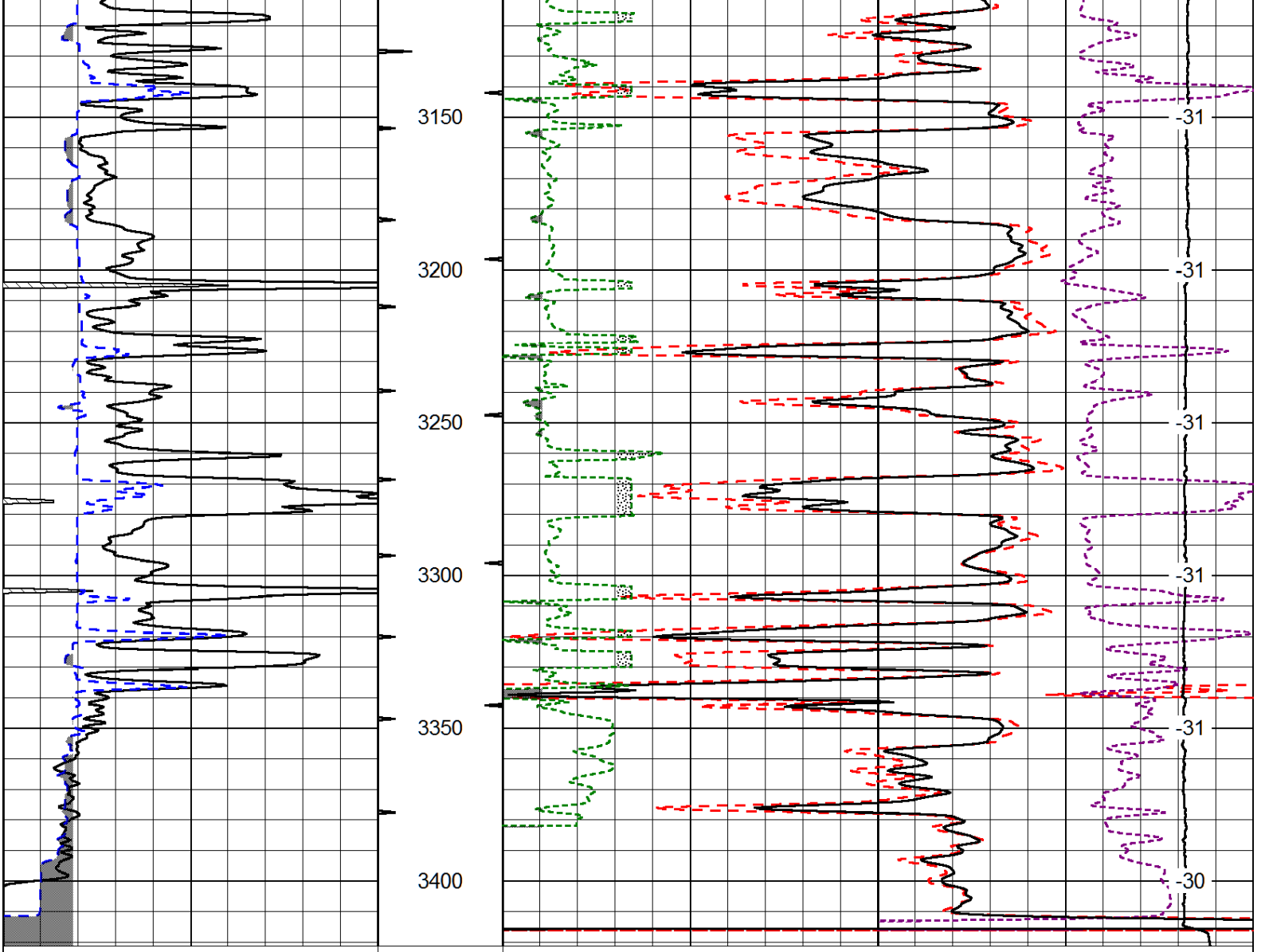
Comments

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

Beaver, 1 East, 1/2 South, East Into

Database File:	birddog_beaver-southkory_1-27hd.db
Dataset Pathname:	dil/birdstck
Presentation Format:	cdl
Dataset Creation:	Tue Jul 02 09:24:36 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)
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
-34
-34
-34
-33
-33
-33
-33
-33
-33
-33



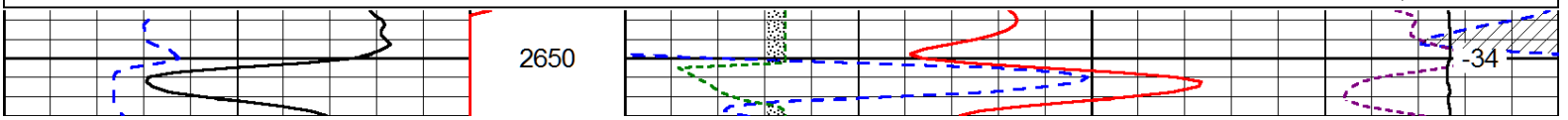
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

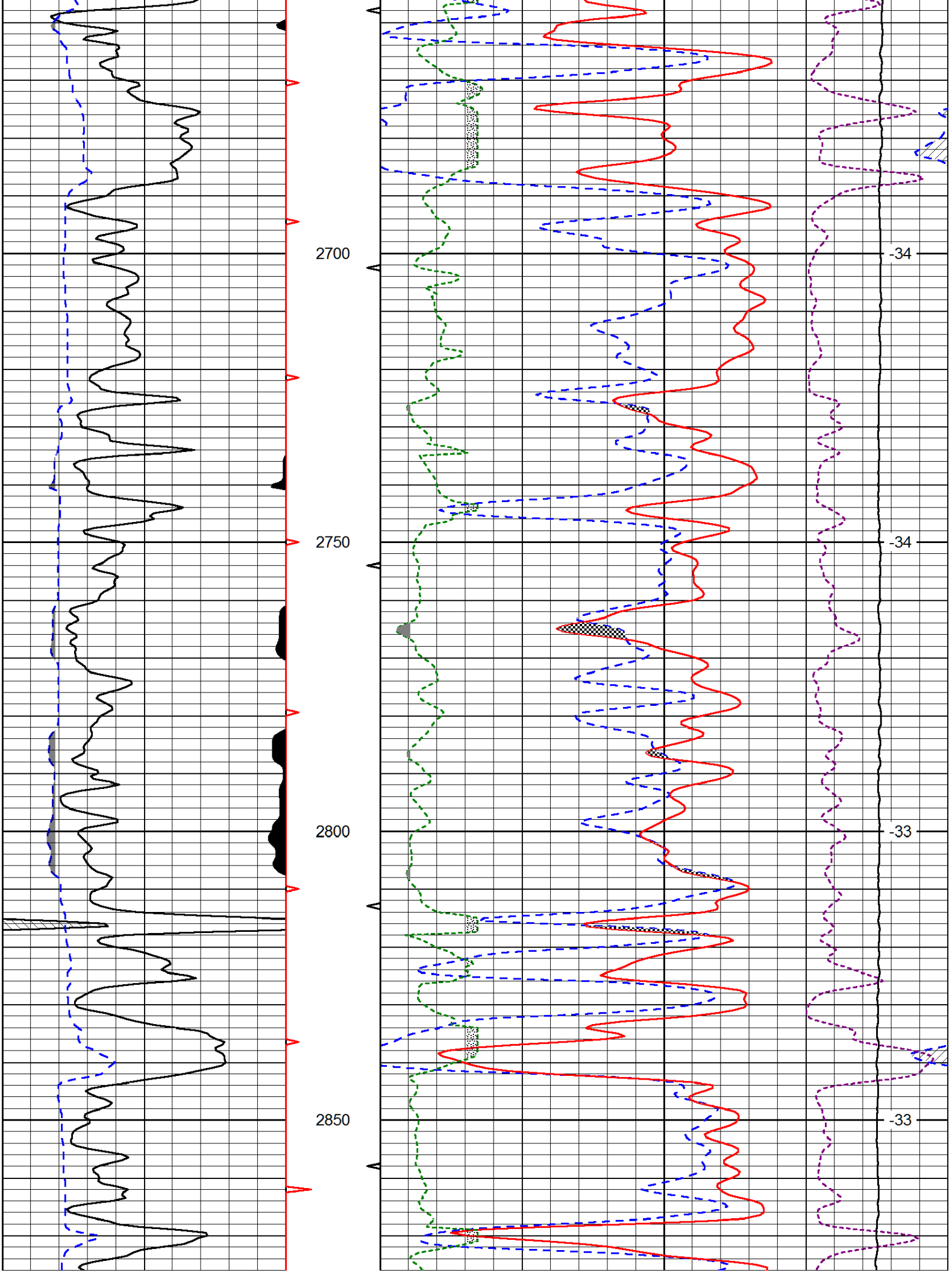
30	Compensated Density (pu)				-10
2	Bulk Density (g/cc)				3
15000	Line Tension (lb)				0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
					LSPD (ft/min)

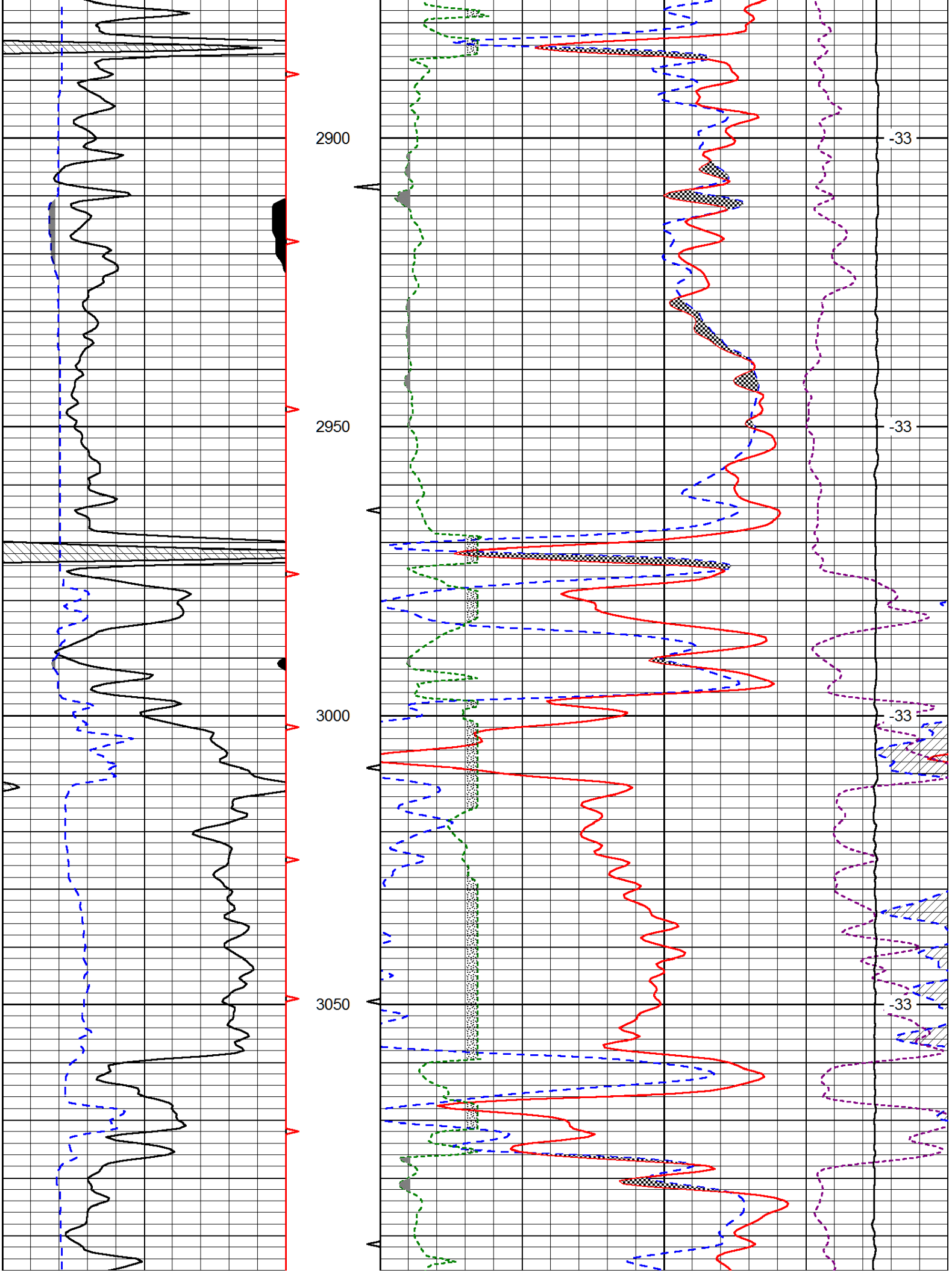
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Dataset Pathname:	dil/birdstck
Presentation Format:	cndlspec
Dataset Creation:	Tue Jul 02 09:24:36 2013
Charted by:	Depth in Feet scaled 1:240

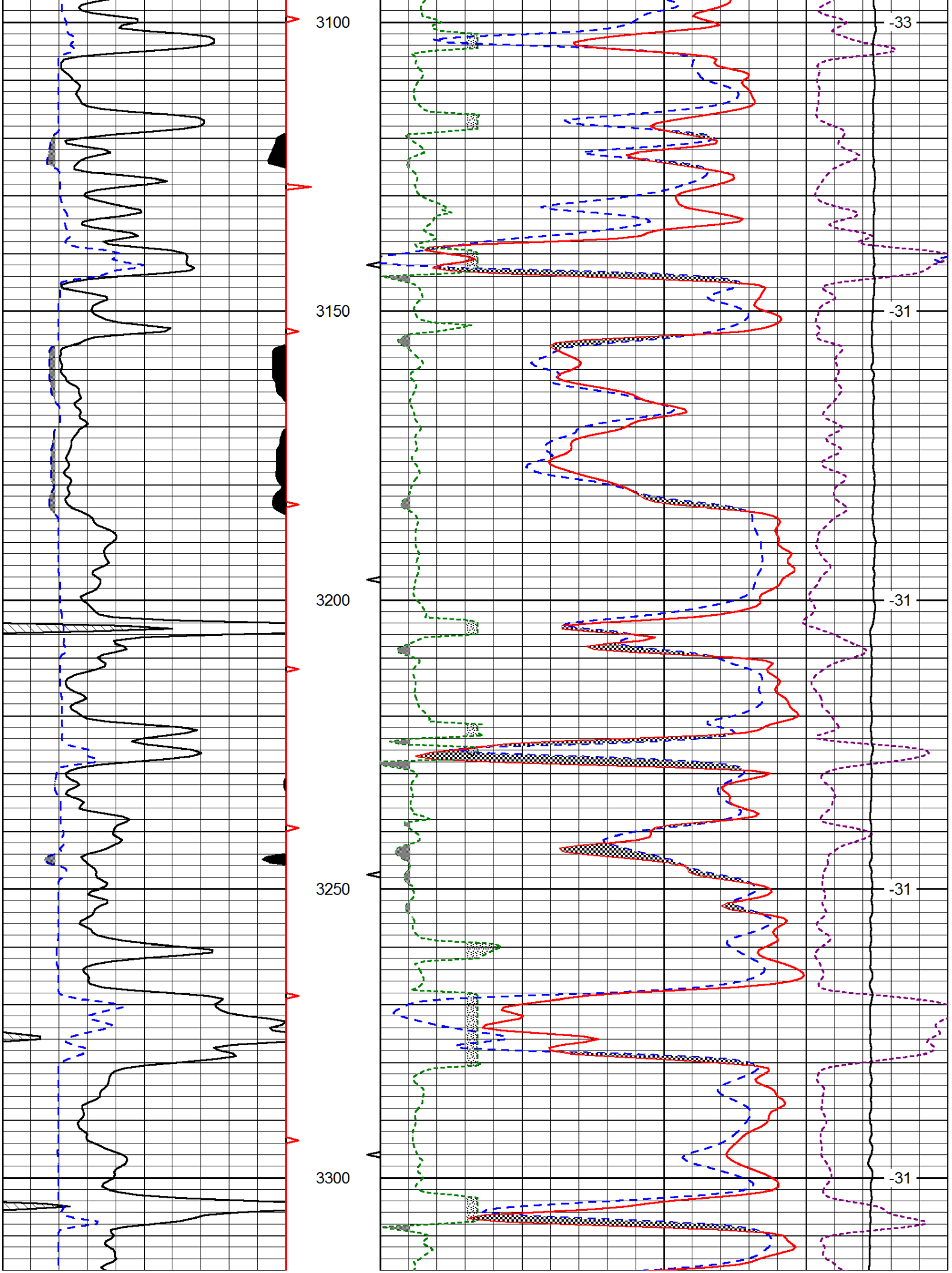
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

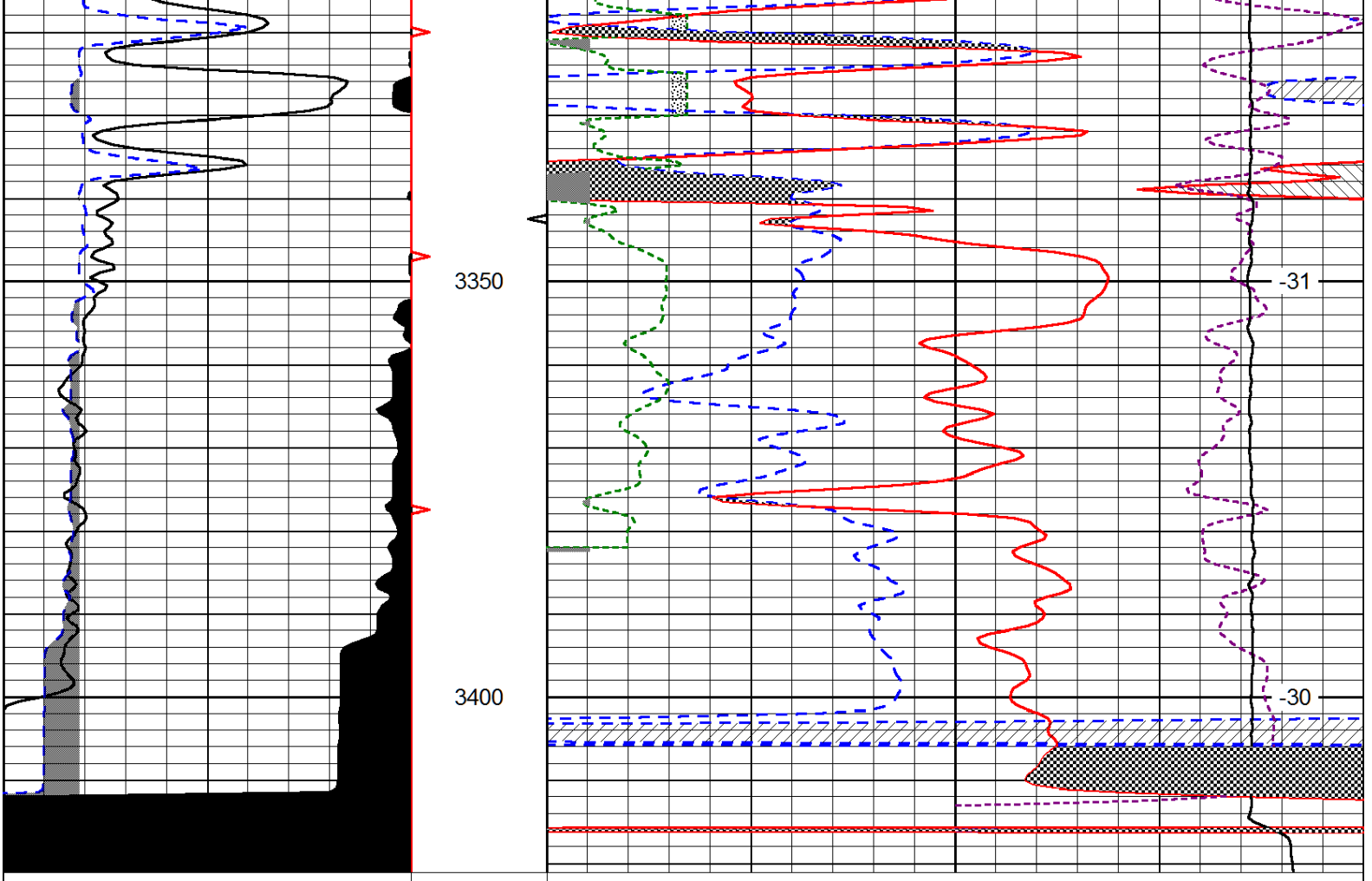
30	CNLS (pu)				-10
30	Compensated Density (2.71 ma) (pu)				-10
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0
					LSPD (ft/min)




2700
2750
2800
2850
-34
-34
-33
-33


2900
2950
3000
3050
-33
-33
-33
-33


3100
3150
3200
3250
3300
-33
-31
-31
-31
-31



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

30	CNLS (pu)				-10
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)				

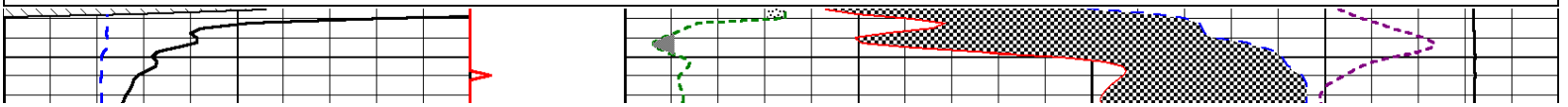
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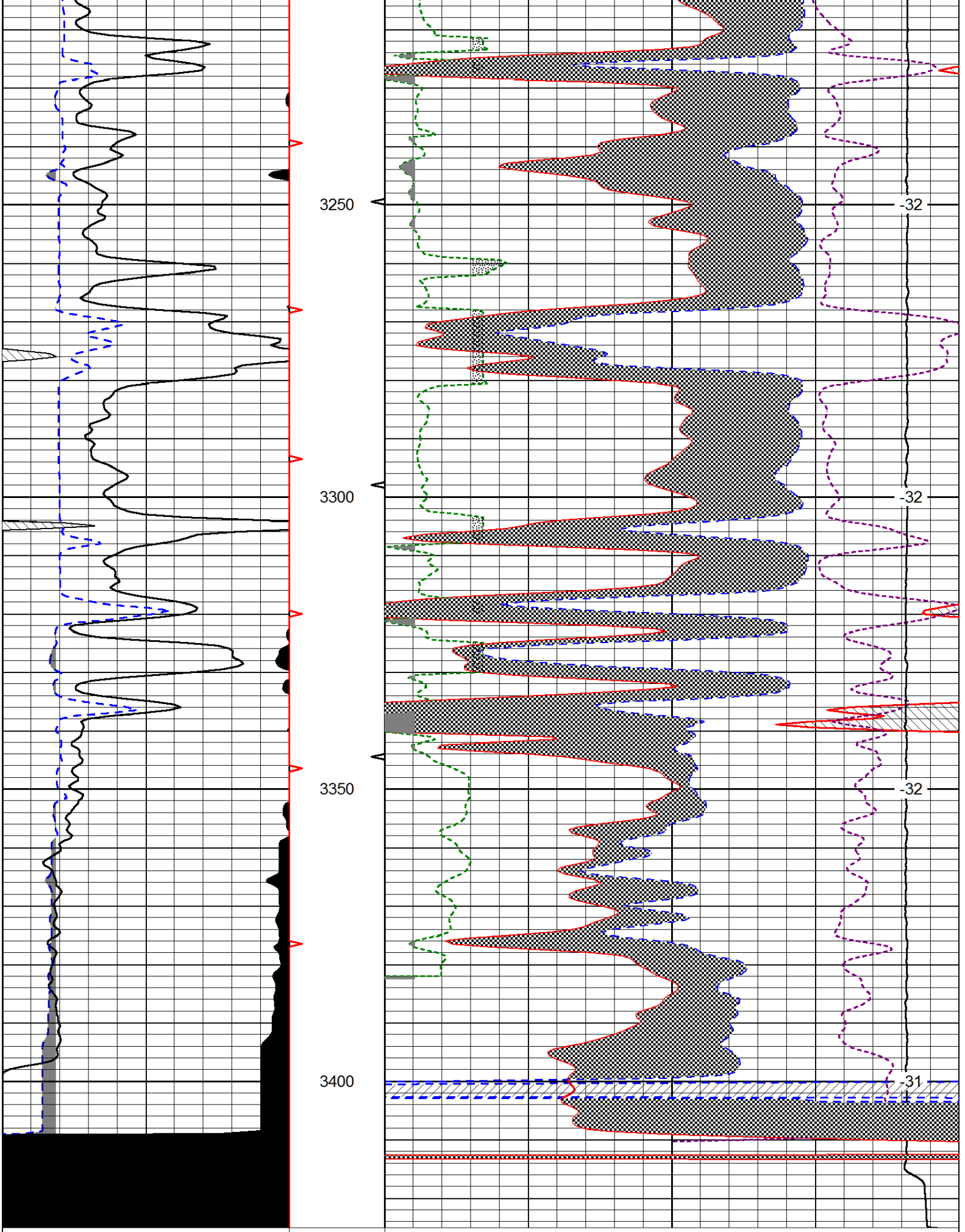
Dolomite Matrix (2.83)

Database File: birddog_beaver-southkory_1-27hd.db
Dataset Pathname: dil/@00000e60
Presentation Format: cndldol
Dataset Creation: Tue Jul 02 09:24:36 2013
Charted by: Depth in Feet scaled 1:240

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

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





0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10