PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-159-25,789-00-00

Company Bird Dog Oil, LLC

Well Lakin-Wendel #1-18

Field Chase-Silica

County Rice State Kansas

Location 330' FNL & 2310' FWL

Sec: 18 Twp: 19S Rge: 10W

Other Services
DIL
MEL/BHCS

Elevation
K.B. 1780
D.F.
G.L. 1772

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Date	7/31/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	3430
Depth Logger	3428
Bottom Logged Interval	3407
Top Logged Interval	2600
Type Fluid In Hole	Chemical
Salinity, PPM CL	7800
Density	9.25
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	5 Hours
Equipment -- Location	10 Hays
Recorded By	D.Kerr
Witnessed By	Adam Nighswonger

Borehole Record

Run No.	Bit	From	To
One	12.25	00	347
Two	7.875	347	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	347

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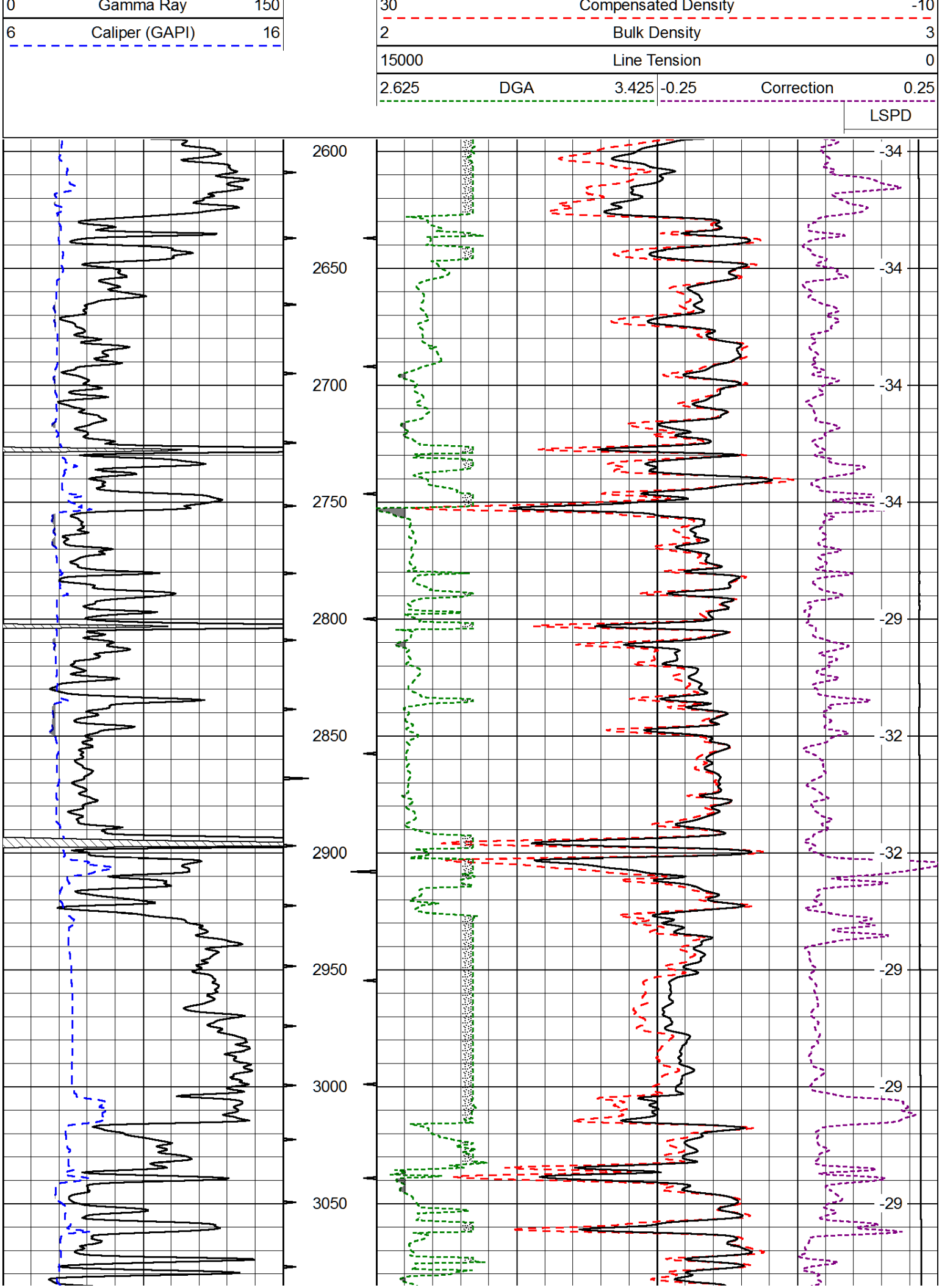
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

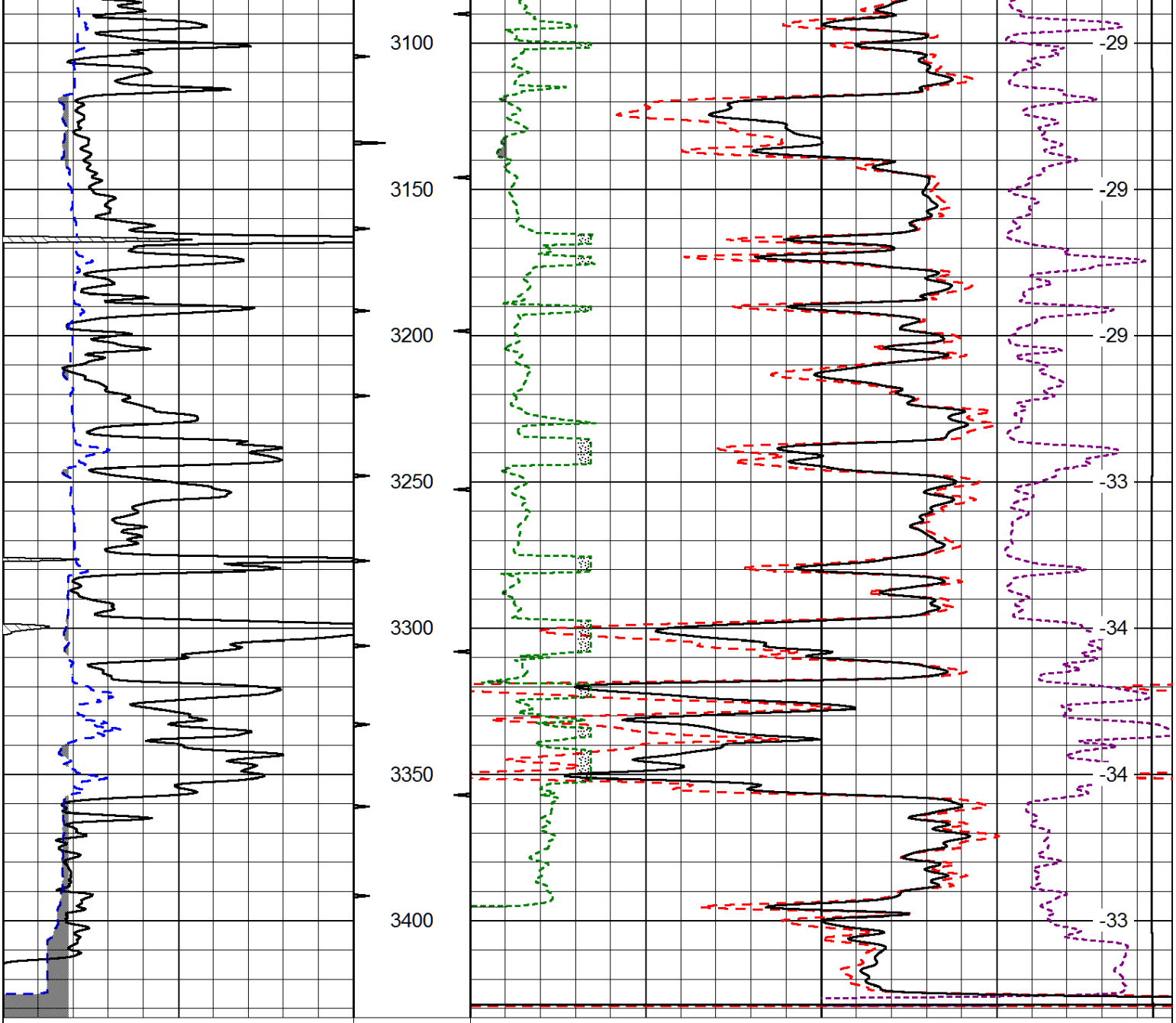
Comments

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

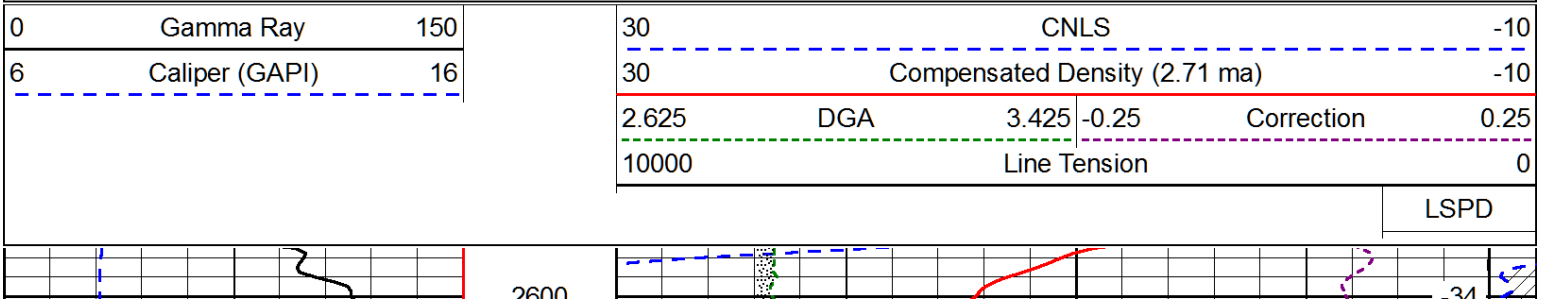
Ellinwood KS, East to County Line,
4 North to I RD, 1/2 East, South Into

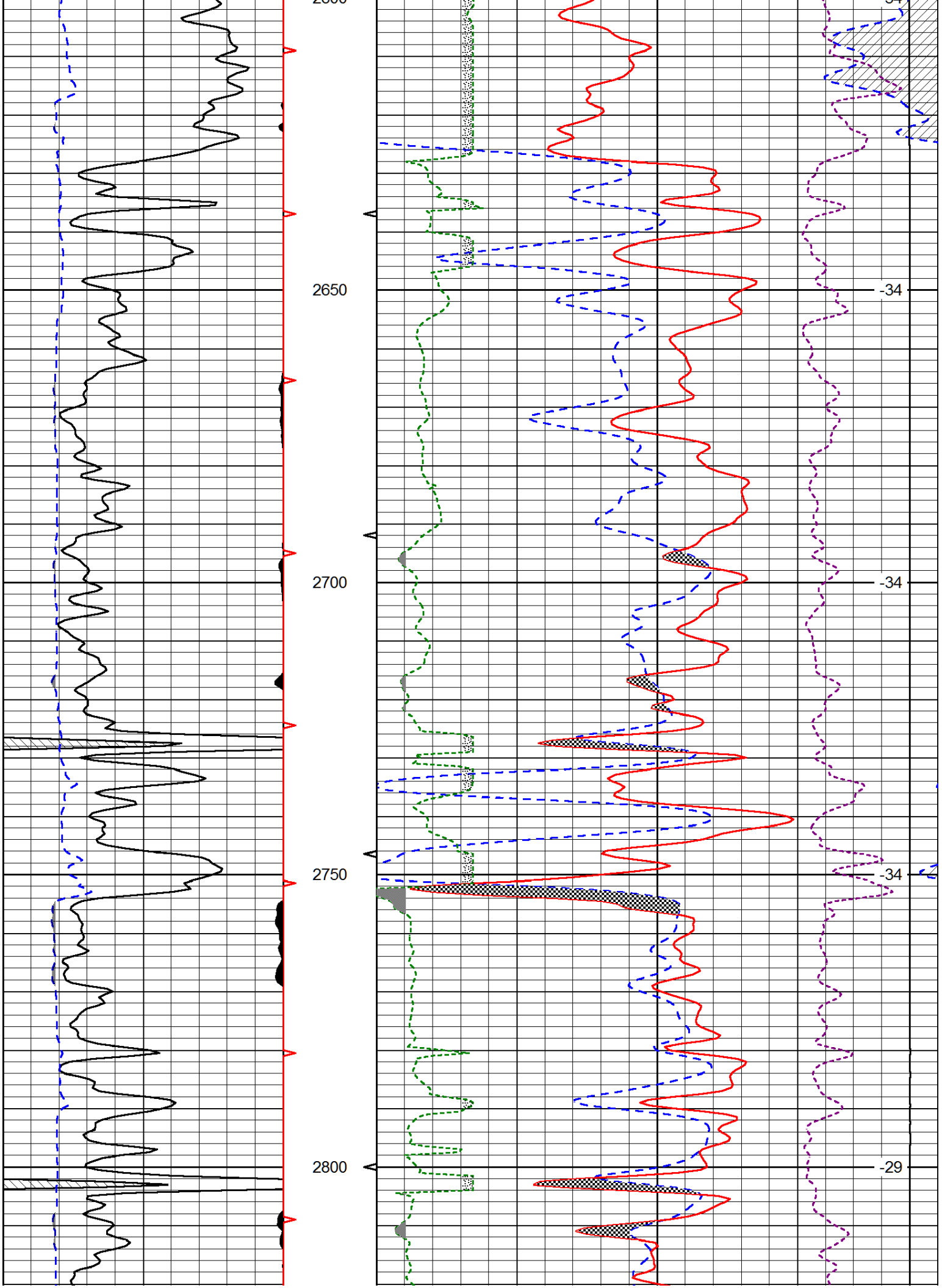
Database File:	birddog_lakinwendel_1_18hd.db
Dataset Pathname:	DIL/bdstk
Presentation Format:	cdl
Dataset Creation:	Thu Jul 31 12:39:38 2014
Charted by:	Depth in Feet scaled 1:600

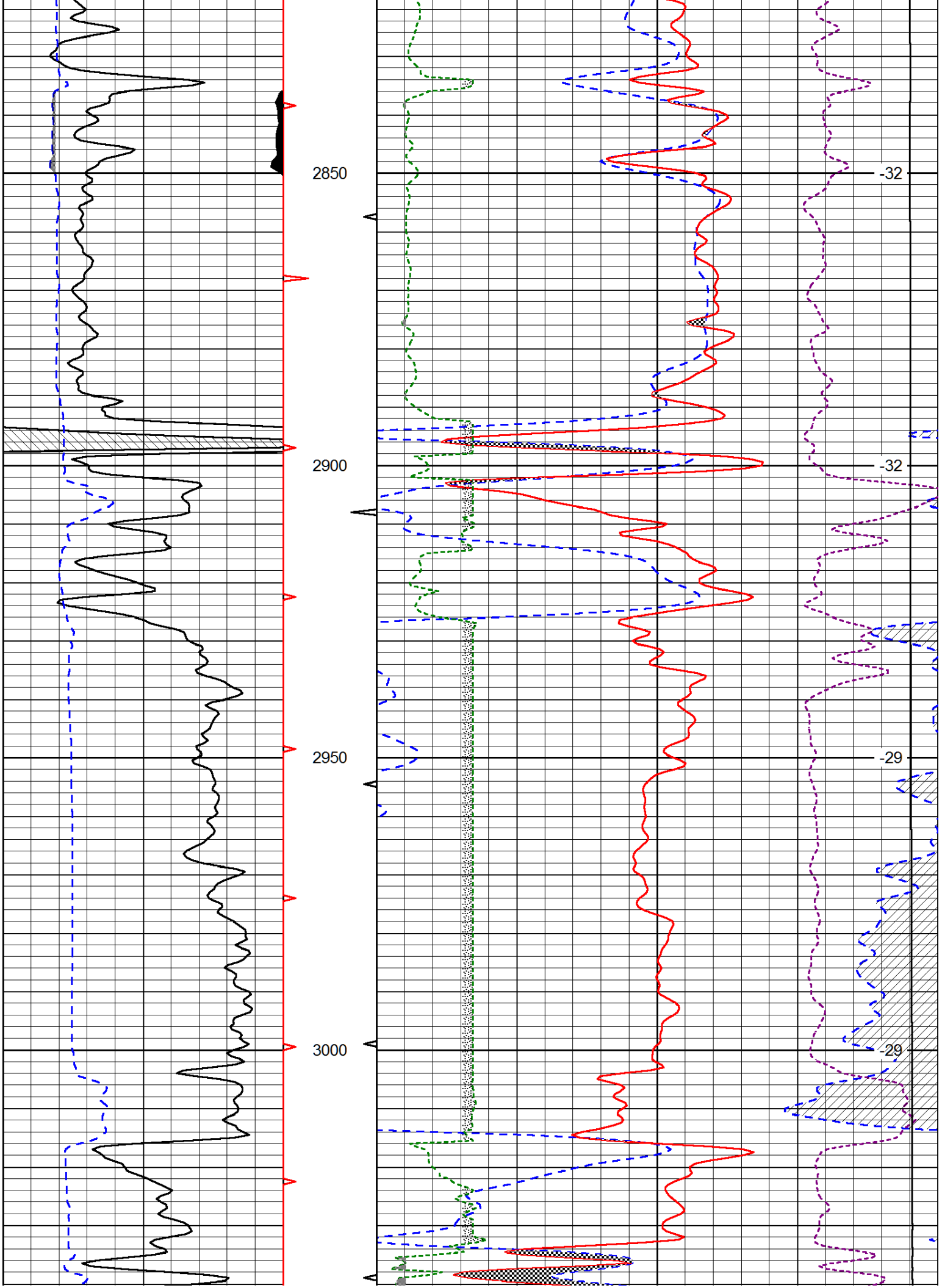

0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compensated Density -10
2 Bulk Density 3
15000 Line Tension 0
2.625 DGA 3.425
-0.25 Correction 0.25
LSPD
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
-34
-34
-34
-34
-29
-32
-32
-29
-29
-29



Database File: birddog_lakinwendel_1_18hd.db
Dataset Pathname: DIL/bdstk
Presentation Format: cndlspec
Dataset Creation: Thu Jul 31 12:39:38 2014
Charted by: Depth in Feet scaled 1:240




2650
-34
2700
-34
2750
-34
2800
-29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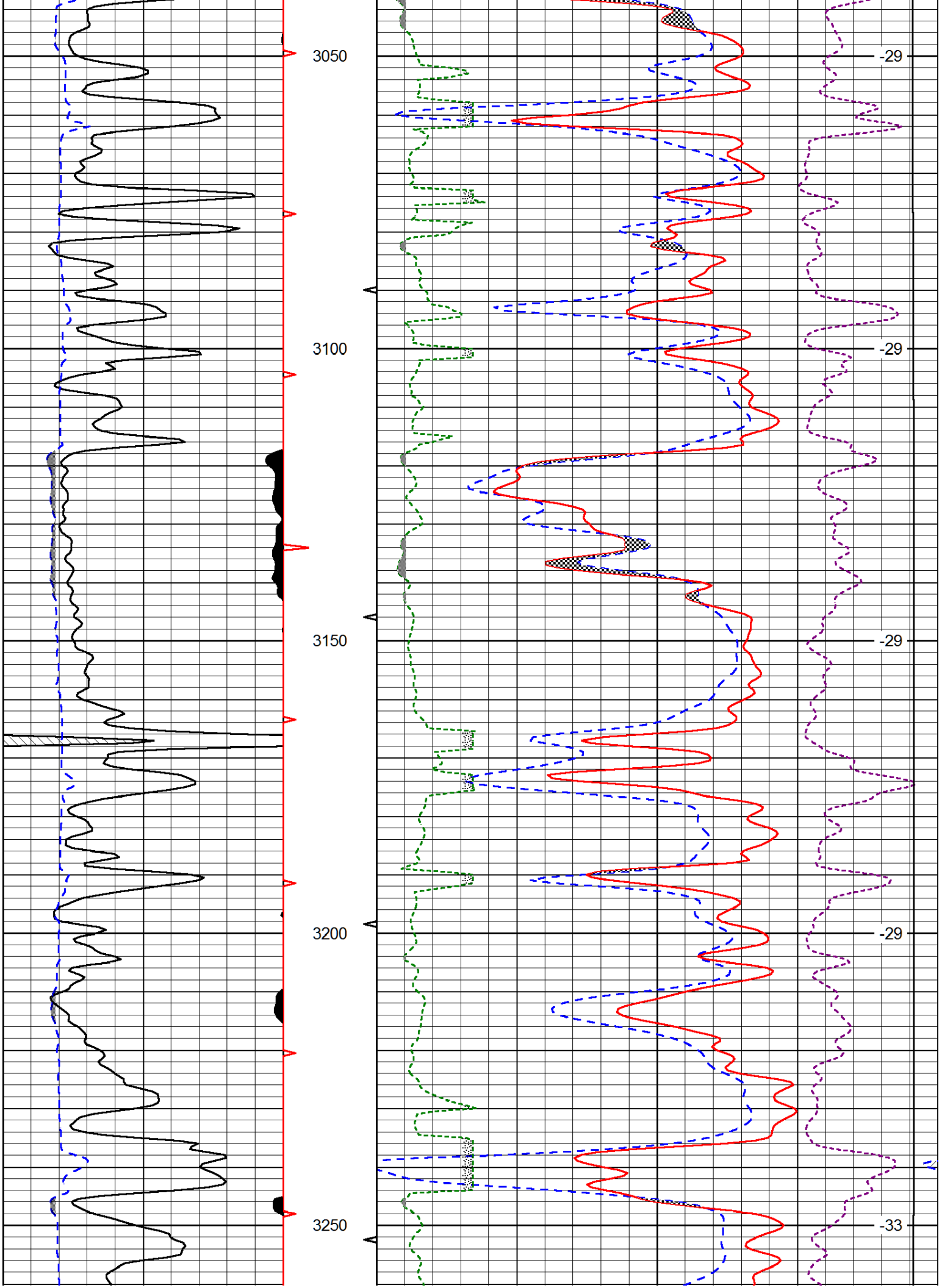
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3100
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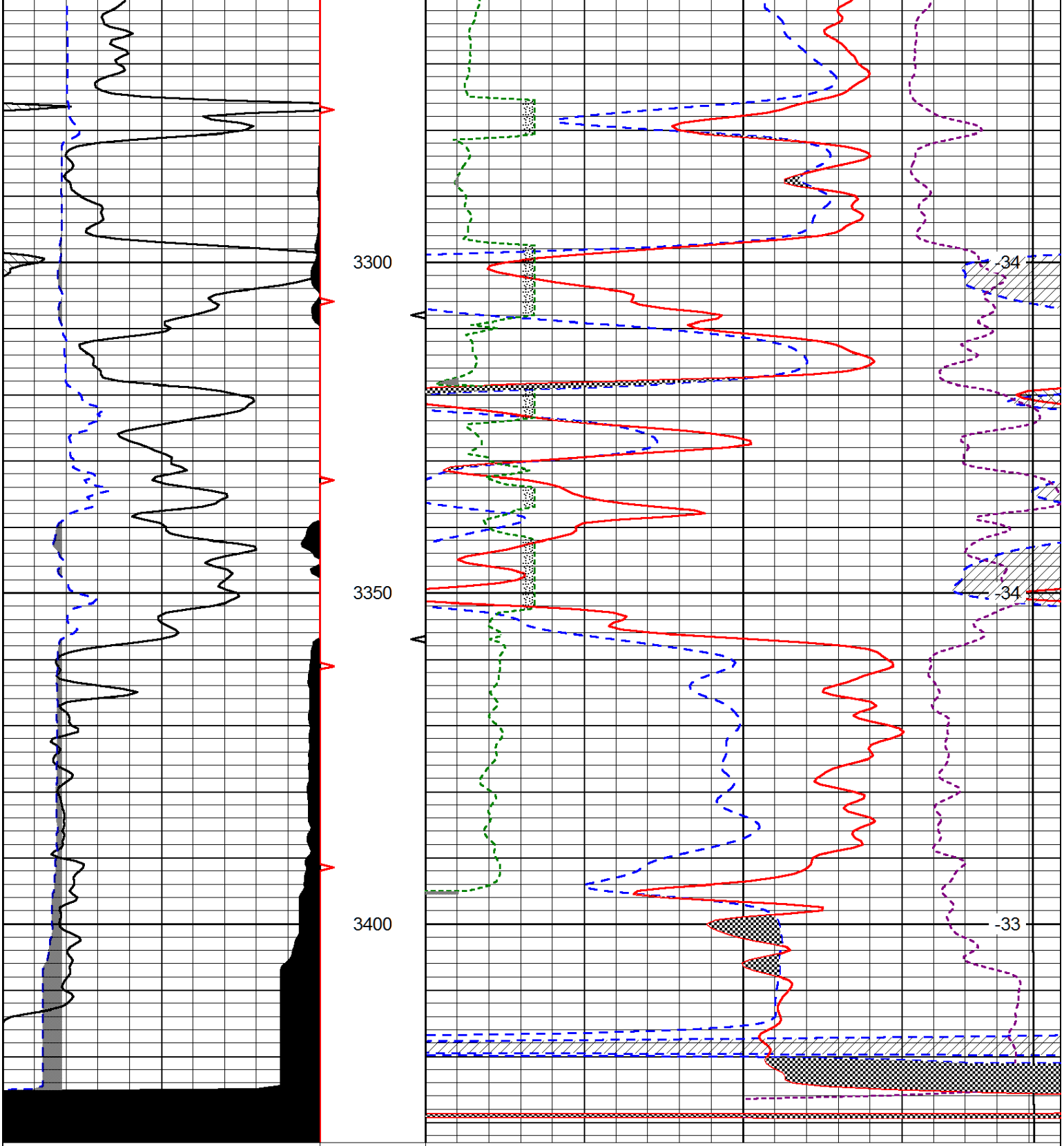
3200
3250
-29
-29
-29
-33



0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS	-10
30	Compensated Density (2.71 ma)	-10
2.625	DGA 3.425 -0.25 Correction	0.25
10000	Line Tension	0

LSPD