PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-145-21798-00-00

Company H&B Petroleum Corporation

Well Crane #1

Field Jessie

County Pawnee State Kansas

Location SE NE SW SE
720' FSL & 1555' FEL
Sec: 36 Twp: 21S Rge: 15W

Other Services
DIL
MEL/BHCS

Elevation
K.B. 1967
D.F.
G.L. 1959

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Date	2/23/2015
Run Number	One
Type Log	CNL / CDL
Depth Driller	3910
Depth Logger	3910
Bottom Logged Interval	3881
Top Logged Interval	3200
Type Fluid In Hole	Chemical
Salinity, PPM CL	5000
Density	9.4
Level	Full
Max. Rec. Temp. F	115
Operating Rig Time	4 Hours
Equipment -- Location	91 Hays
Recorded By	D. Schmidt
Witnessed By	Jim Musgrove

Elevation 1959

Borehole Record

Run No.	Bit	From	To
One	12.25	00	925
Two	7.875	925	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	925

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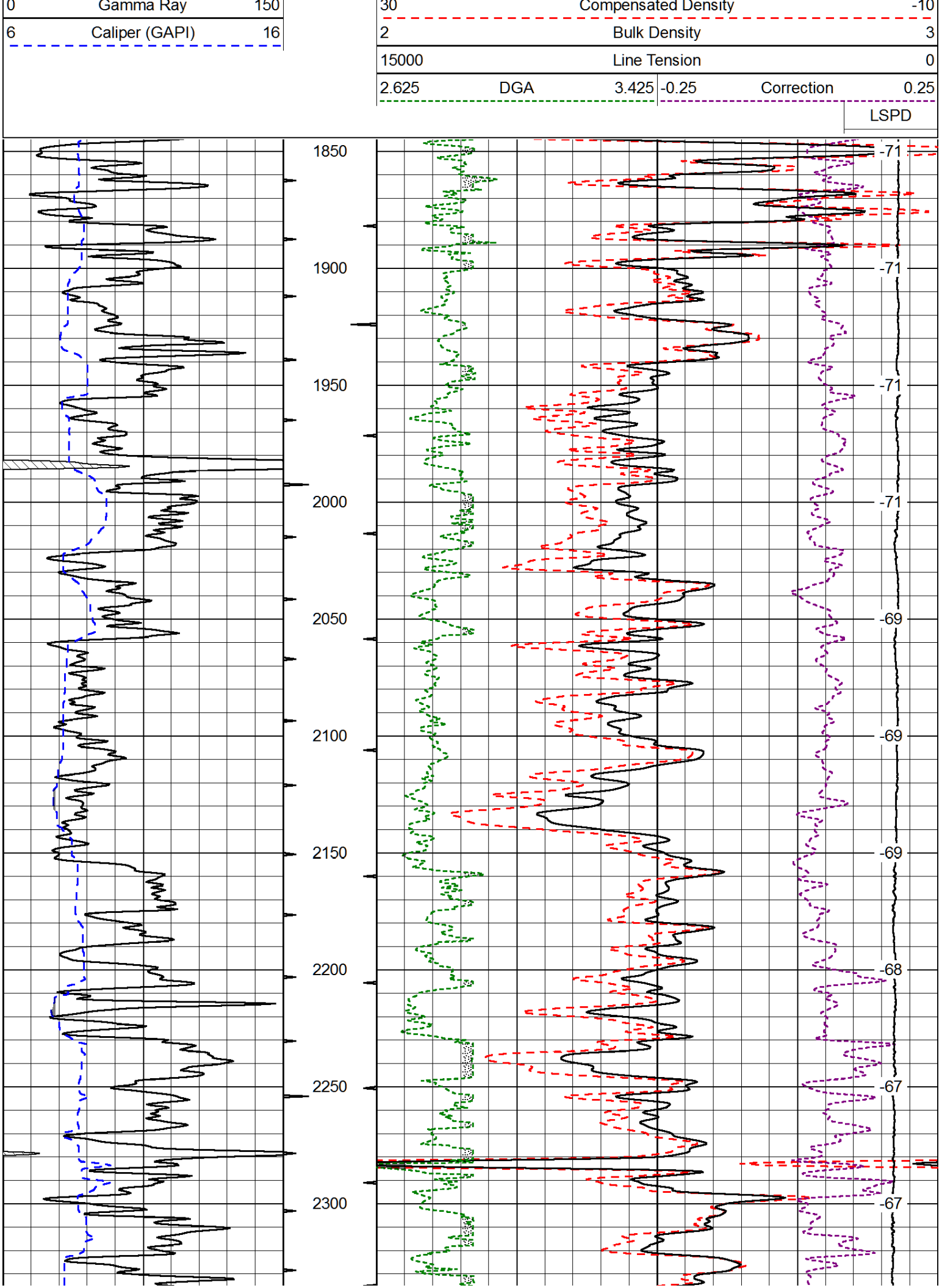
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

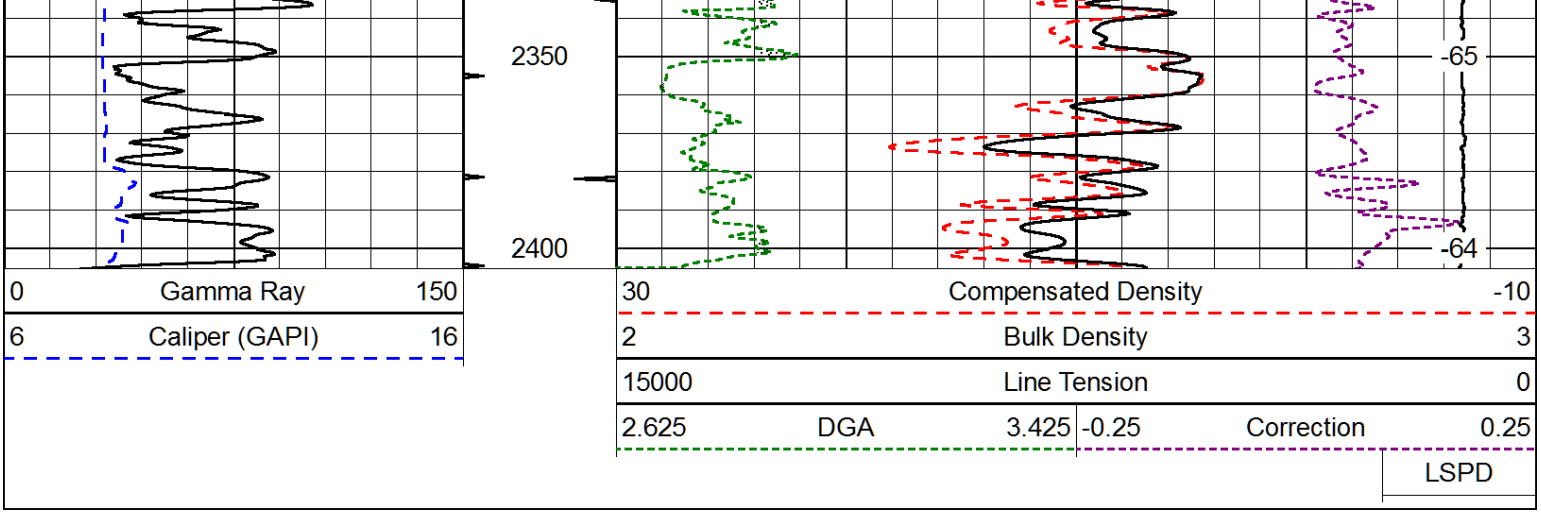
Comments

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

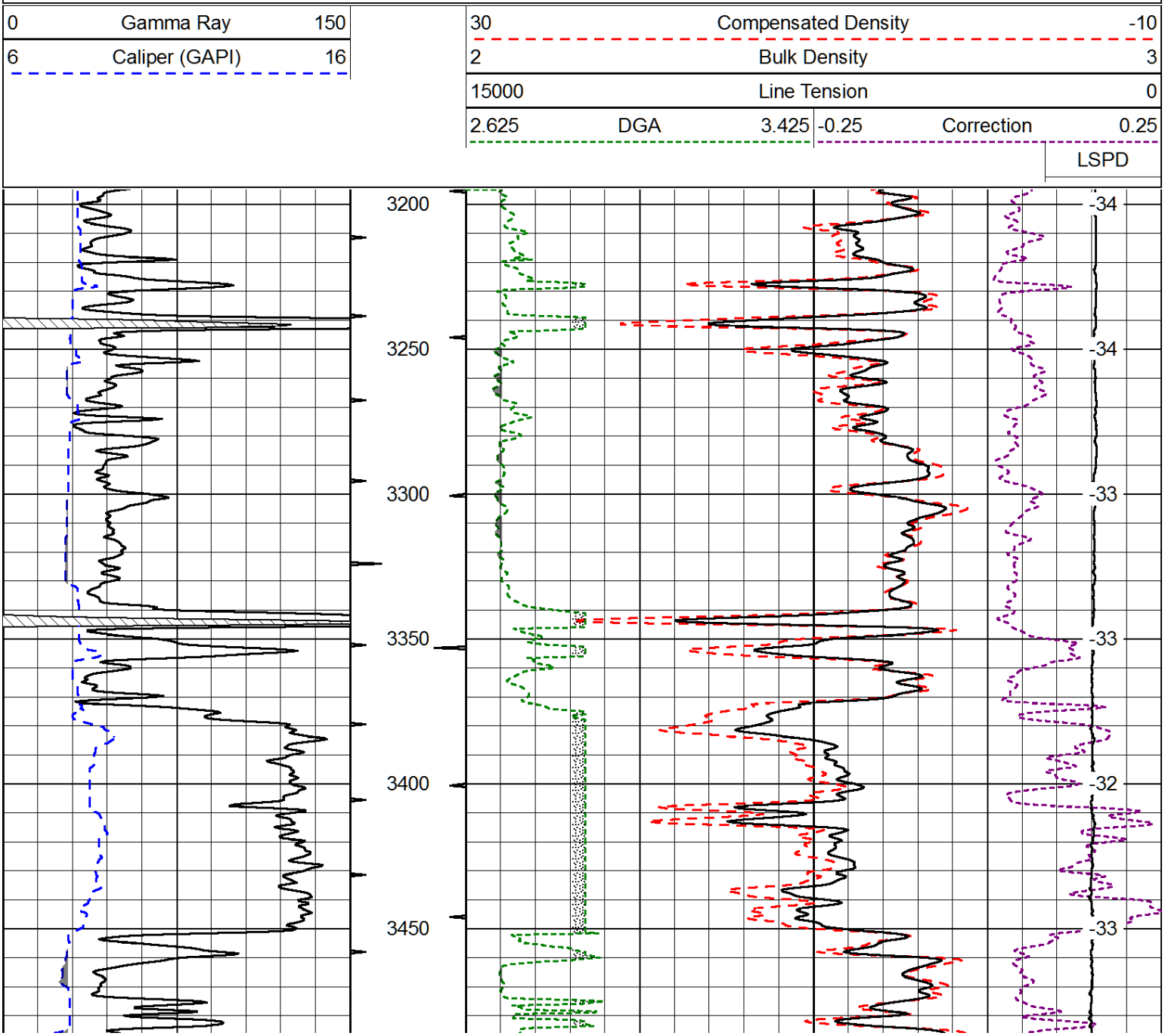
Radium,
1 1/2 West, North into

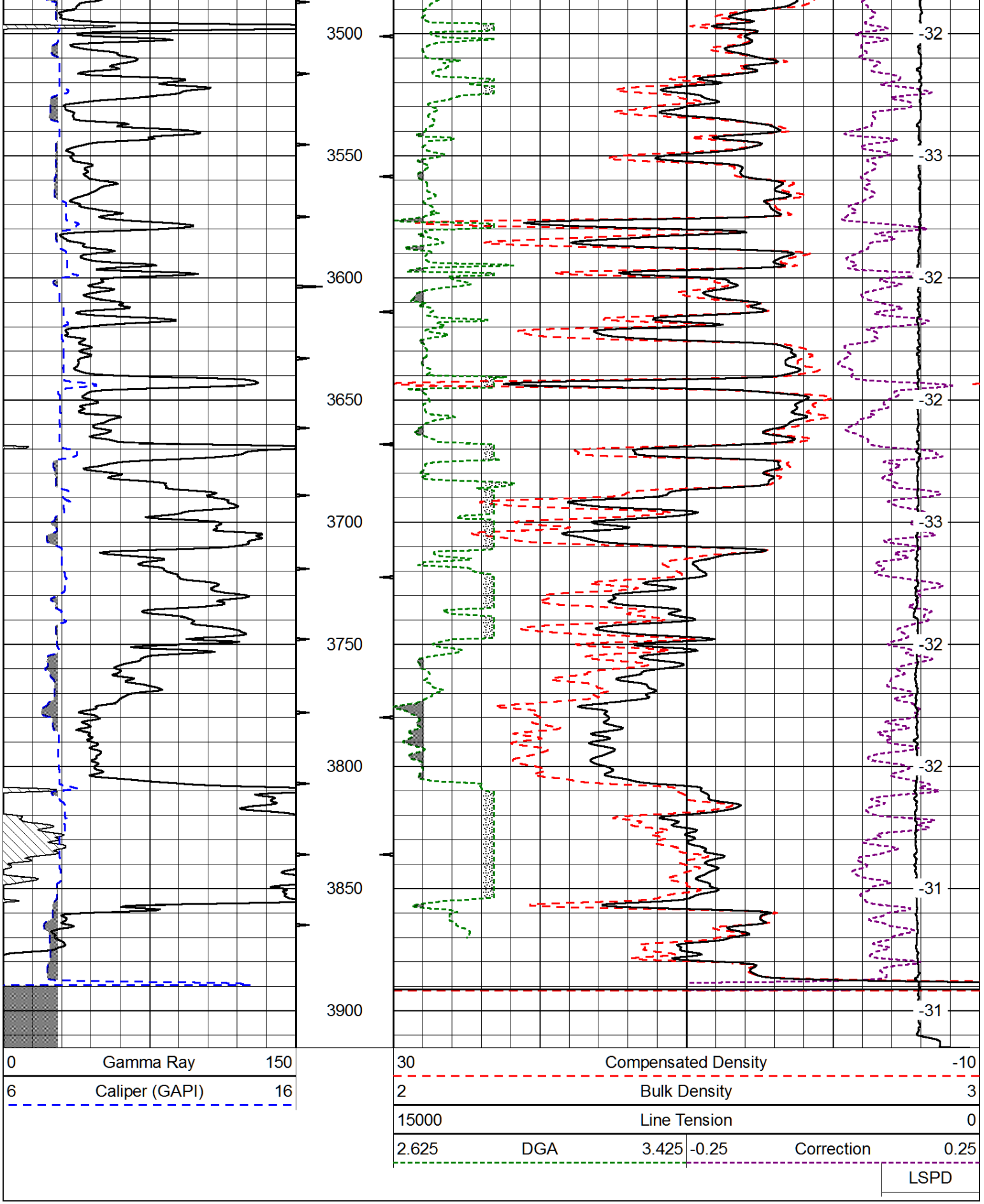
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Dataset Pathname:	dil/hbstkml
Presentation Format:	cdl
Dataset Creation:	Mon Feb 23 11:00:06 2015
Charted by:	Depth in Feet scaled 1:600


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
1850
1900
1950
2000
2050
2100
2150
2200
2250
2300
-71
-71
-71
-71
-69
-69
-68
-67
-67

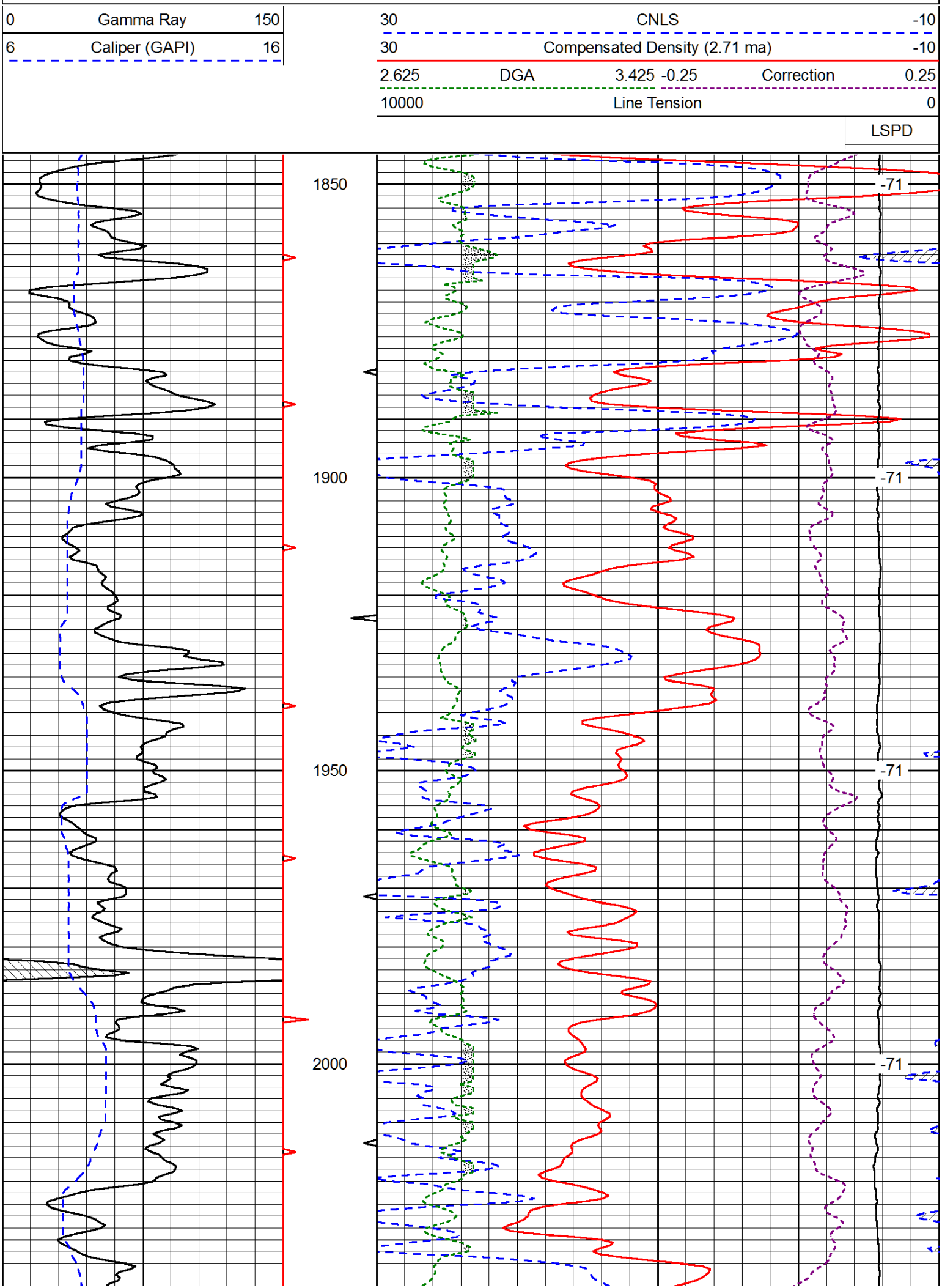


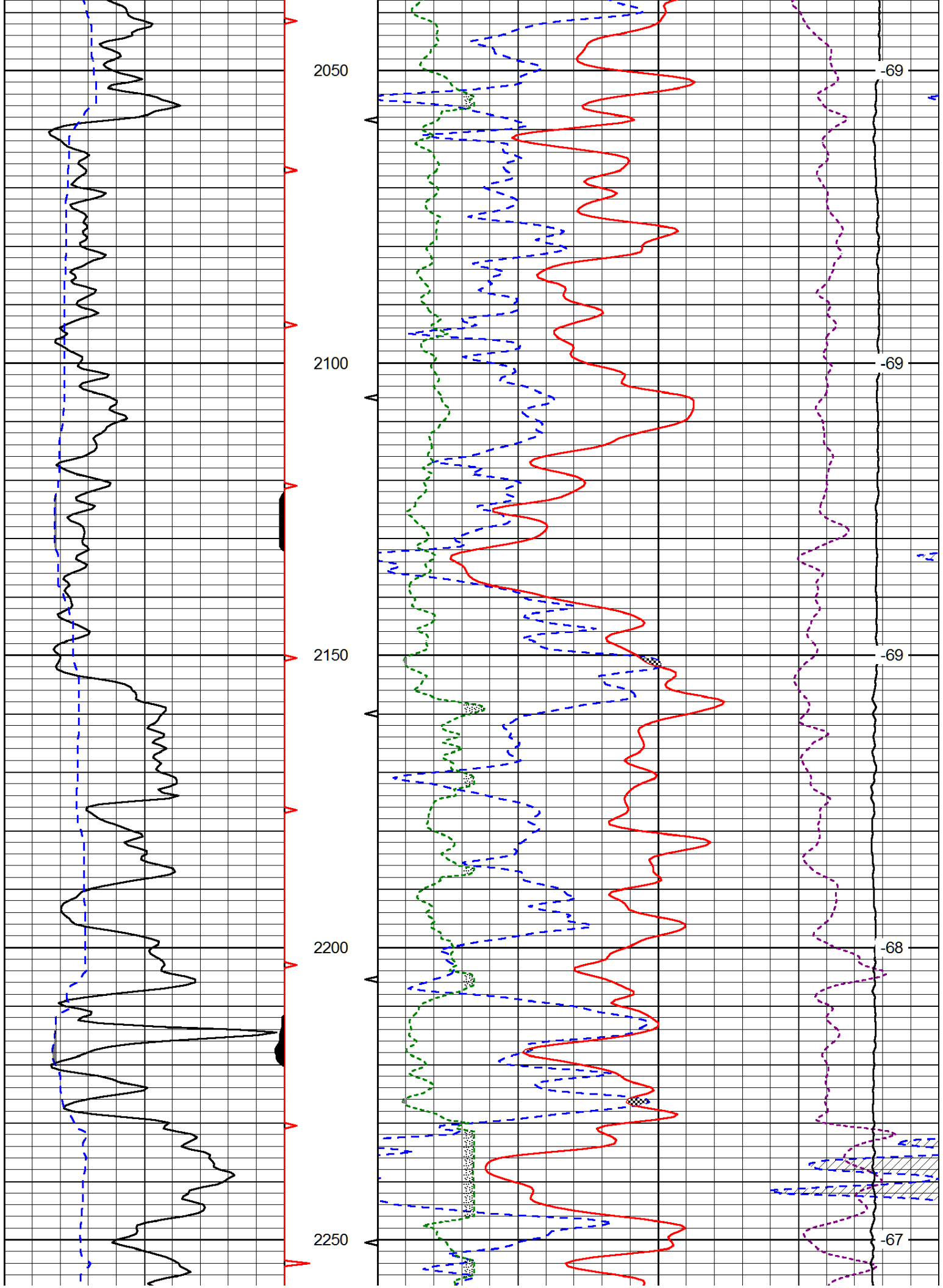
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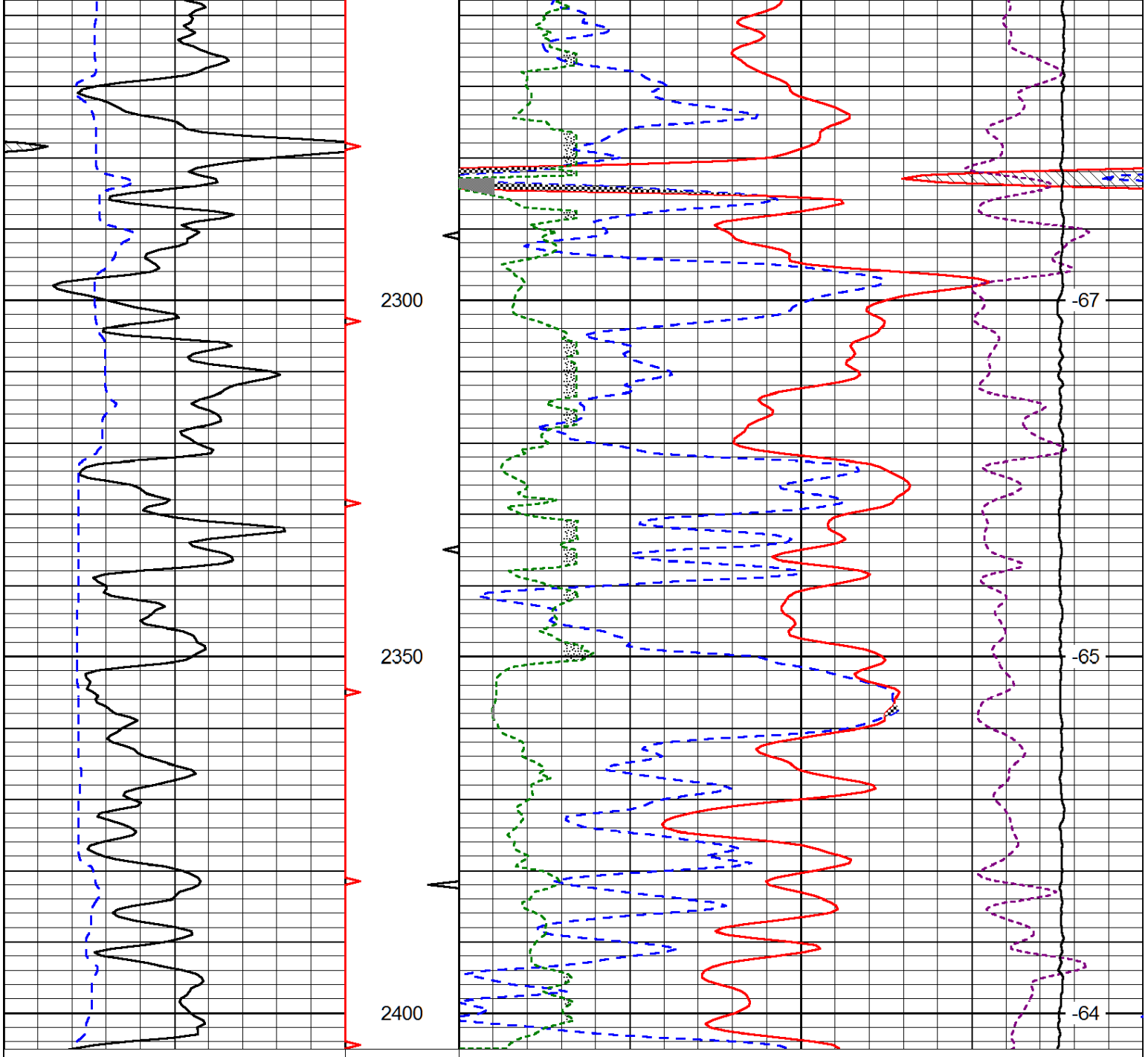




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Presentation Format:	cndlspec
Dataset Creation:	Mon Feb 23 11:00:06 2015
Charted by:	Depth in Feet scaled 1:240


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
1850
1900
1950
2000
-71
-71
-71


2050
2100
2150
2200
2250
-69
-69
-69
-68
-67



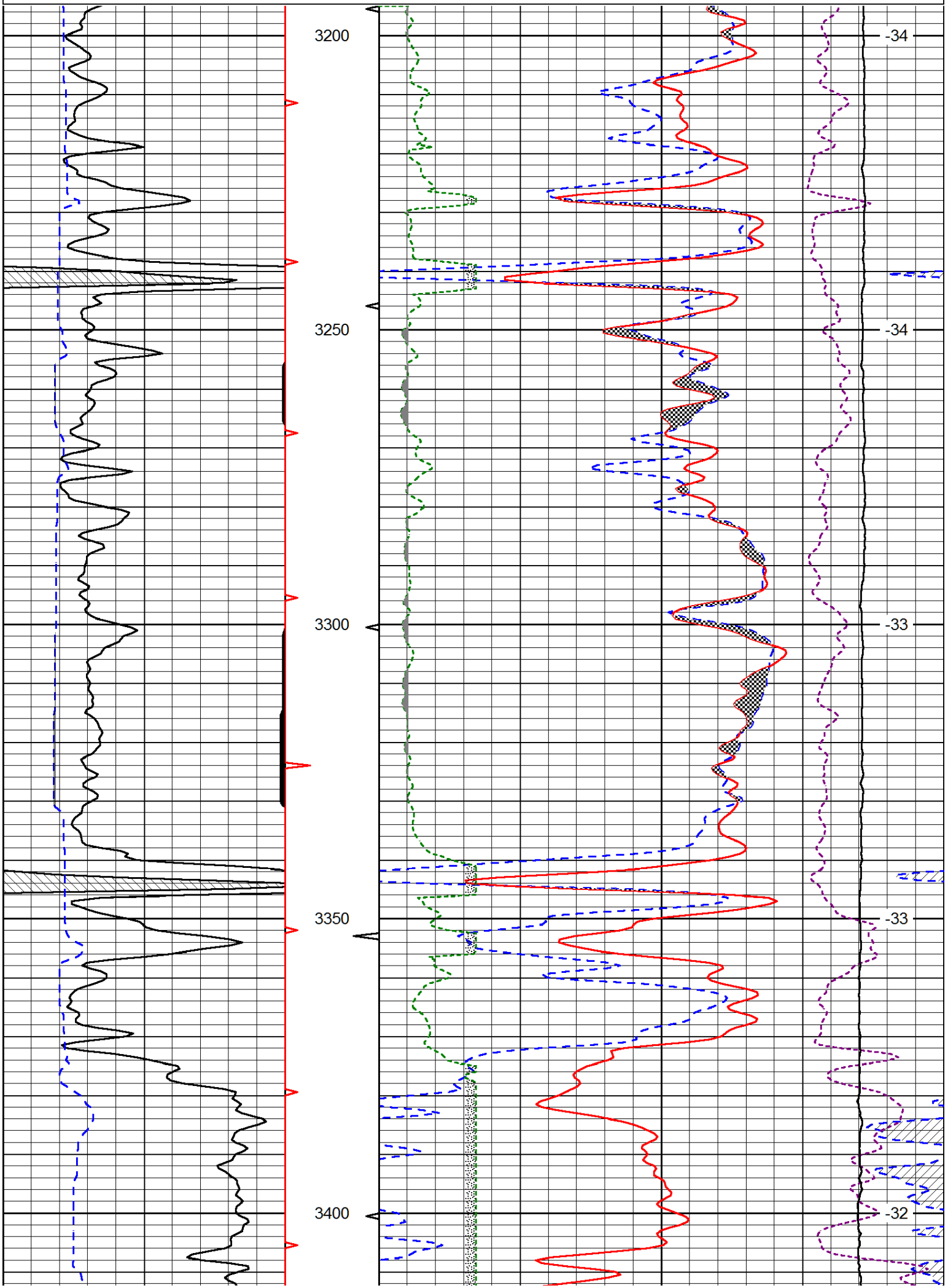
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6	Caliper (GAPI)	16

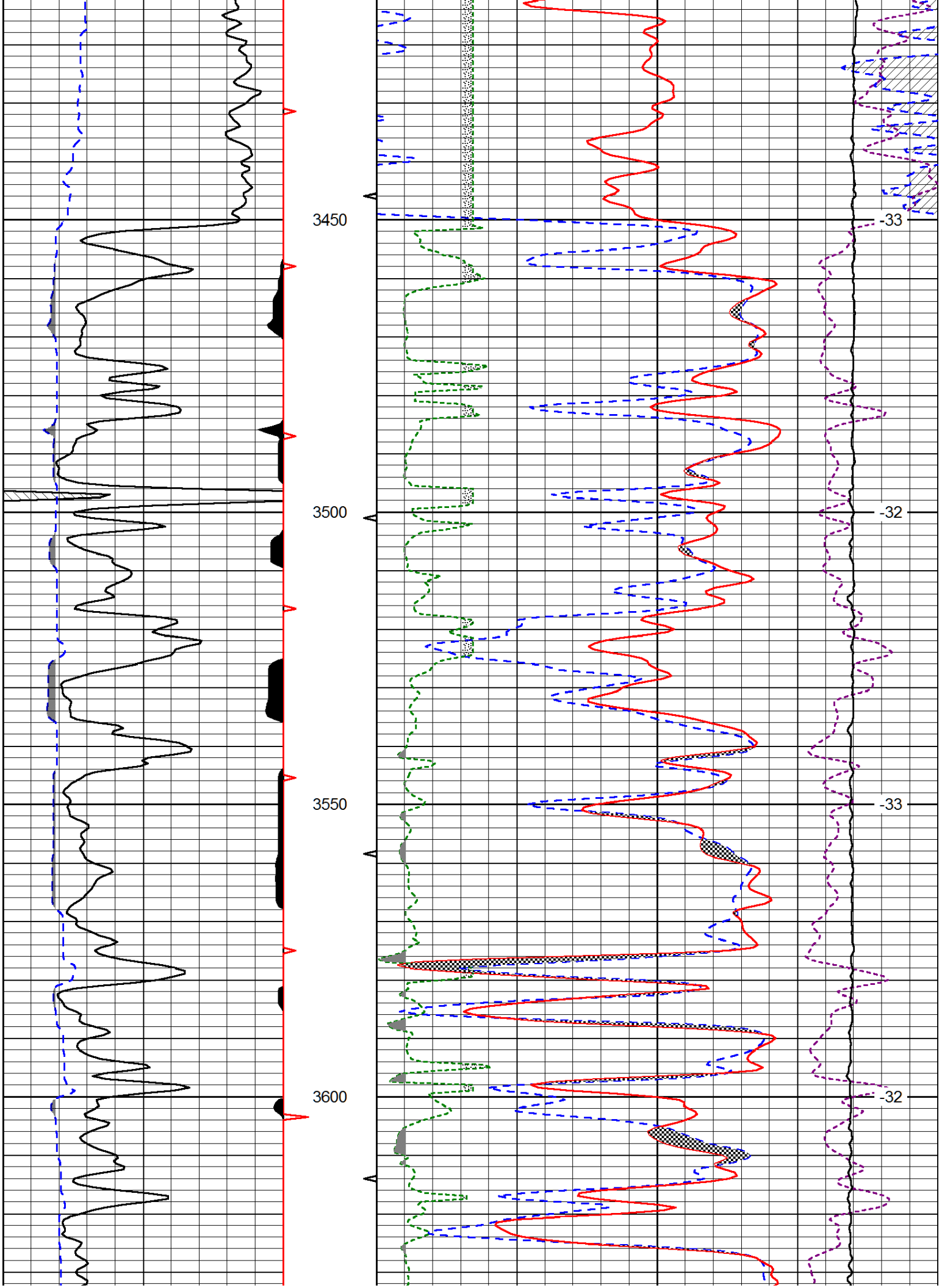
30	CNLS				-10
30	Compensated Density (2.71 ma)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension				0
					LSPD

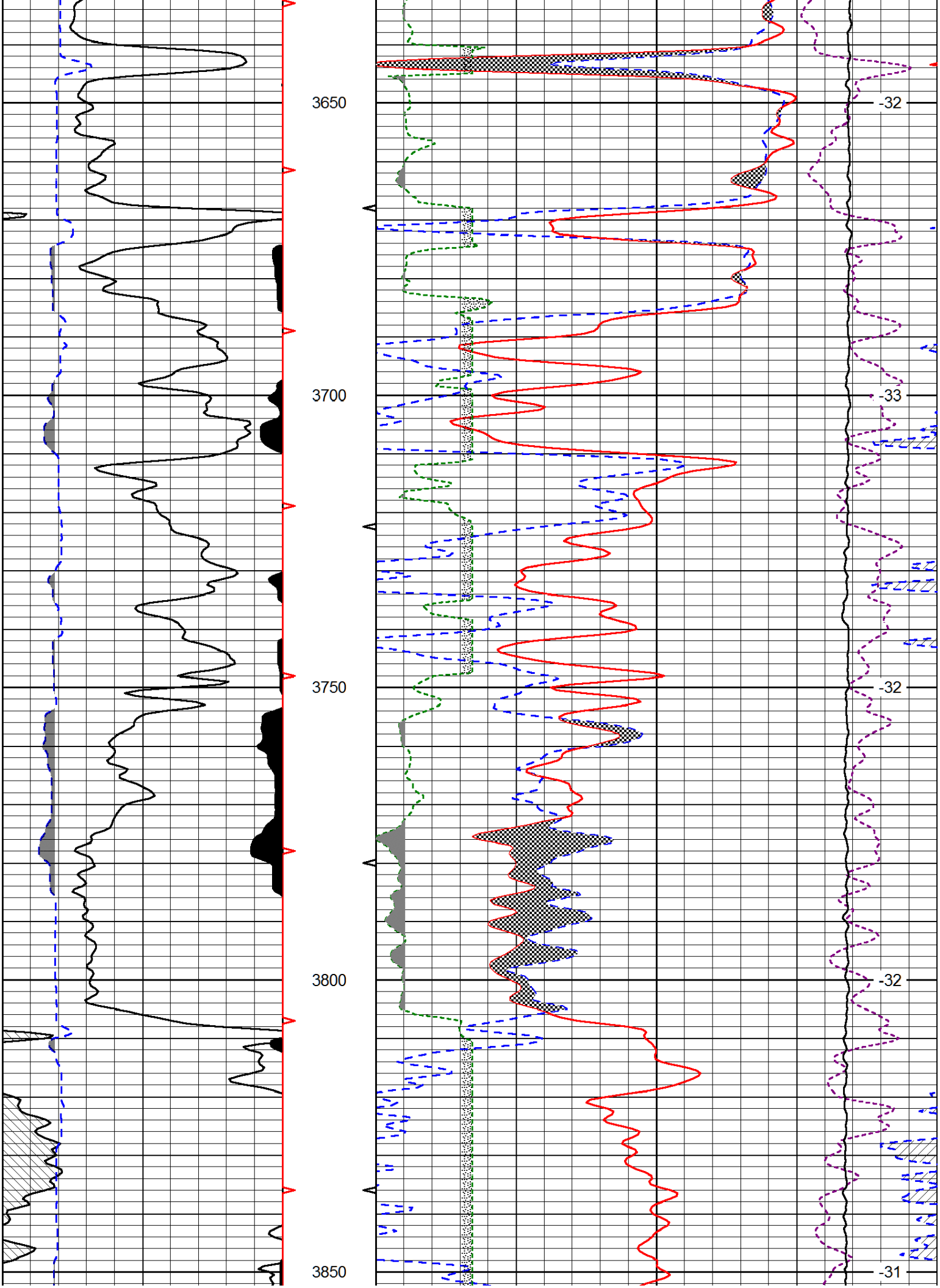
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Charted by:	Depth in Feet scaled 1:240

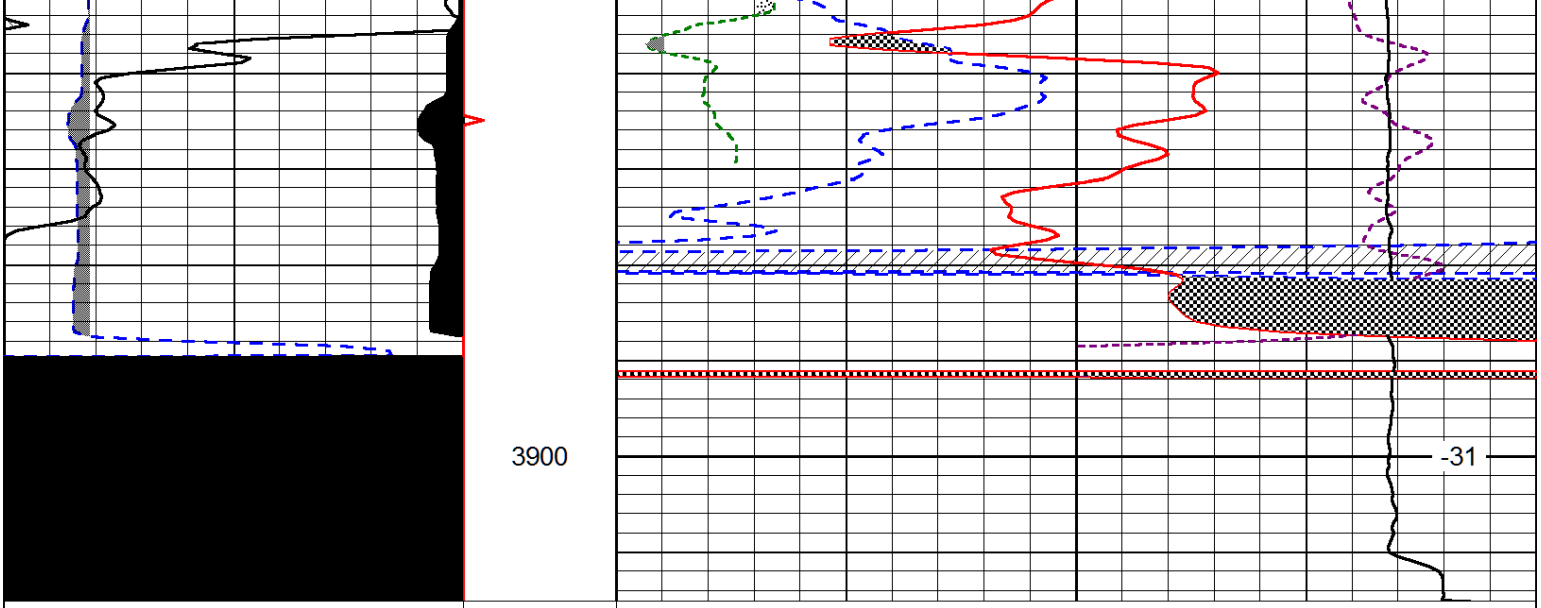
0	Gamma Ray	150
6	Caliper (GAPI)	16

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


3200
3250
3300
3350
3400
-34
-34
-33
-33
-32


3450
3500
3550
3600
-33
-32
-33
-32


3650
3700
3750
3800
3850
-32
-33
-32
-32
-31



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