PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-009-26,007-00-00

Company American Warrior, Inc.

Well Tempero # 6-23

Field Sandford

County Barton State Kansas

Location

967' FSL & 2239' FEL

Sec: 23 Twp: 17s Rge: 14w

Permanent Datum Ground Level Elevation 1907

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
DIL
MEL

Elevation
K.B. 1915
D.F.
G.L. 1907

Date	8/5/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	3500
Depth Logger	3501
Bottom Logged Interval	3480
Top Logged Interval	2800
Type Fluid In Hole	Chemical
Salinity, PPM CL	10200
Density	9.1
Level	Full
Max. Rec. Temp. F	111
Operating Rig Time	4 Hours
Equipment -- Location	108 Hays
Recorded By	J Long
Witnessed By	Adam Folk

Borehole Record

Run No.	Bit	From	To
1	12.25	00	861
2	7.875	861	3500

Casing Record

Size	Wgt.	From	To
8.625	24#	00	861

D Fischer

<<< Fold Here >>>

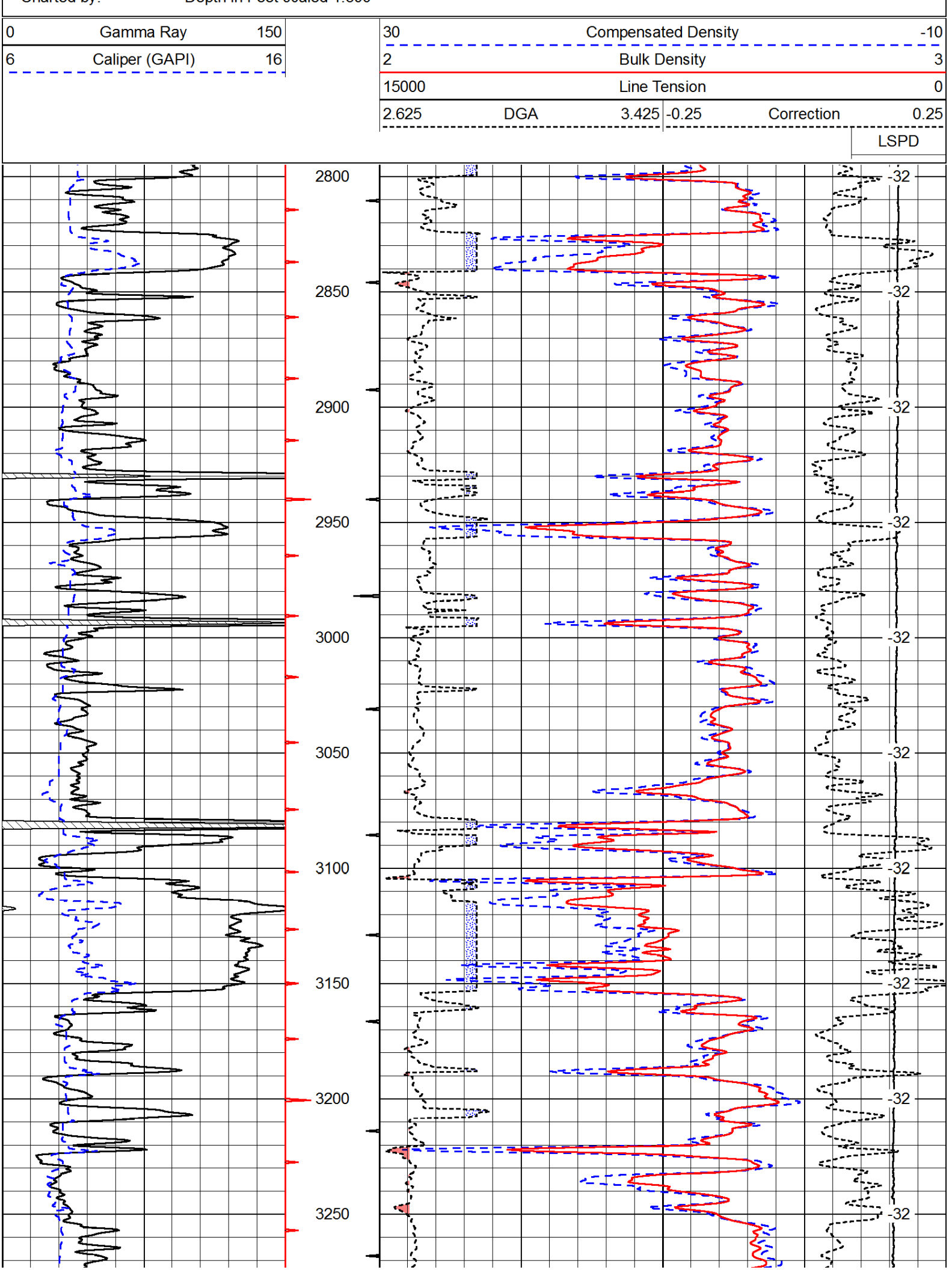
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

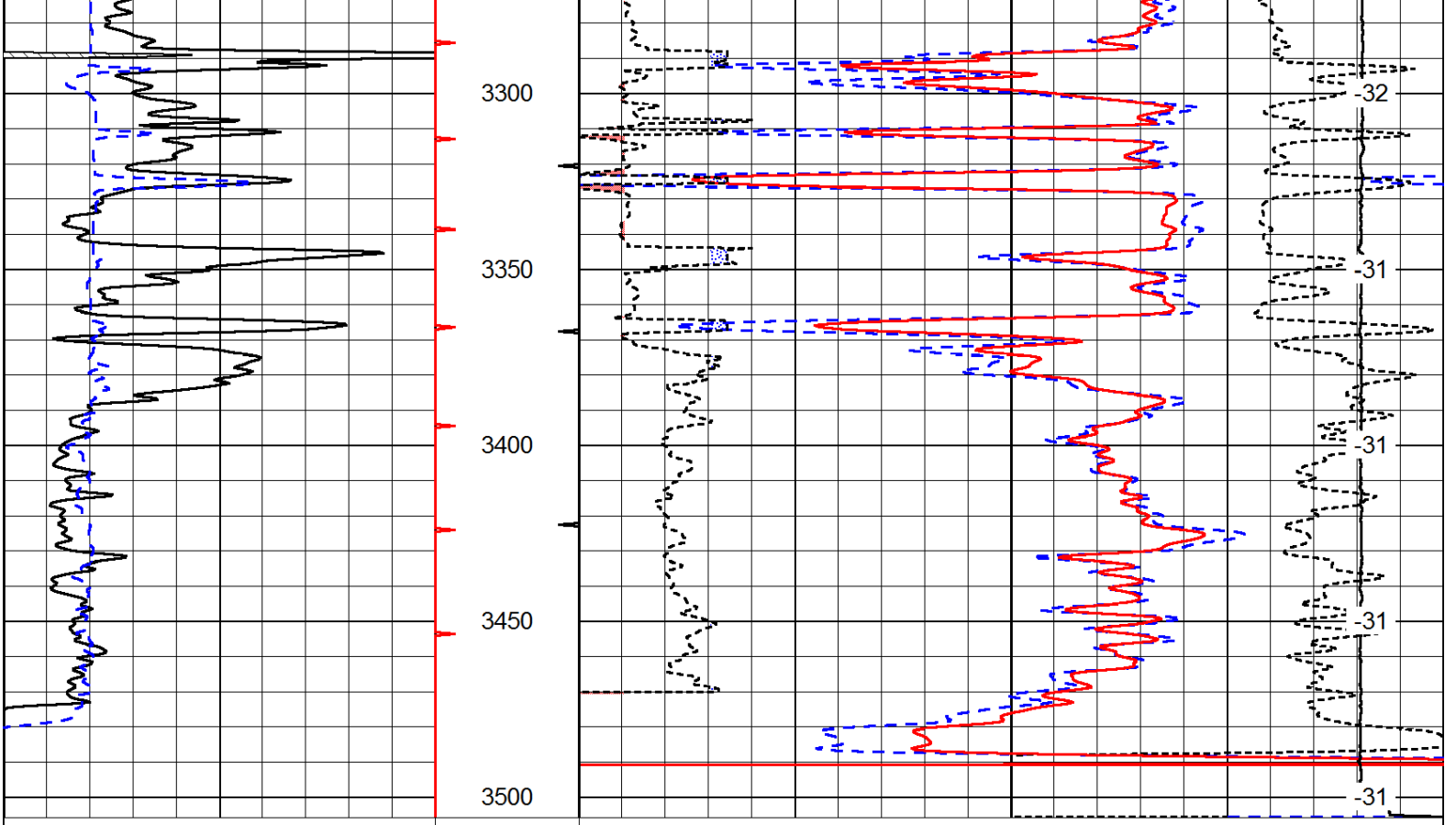
Comments

Thank you for using Pioneer Energy Services
www.pioneeres.com
785 625 3858

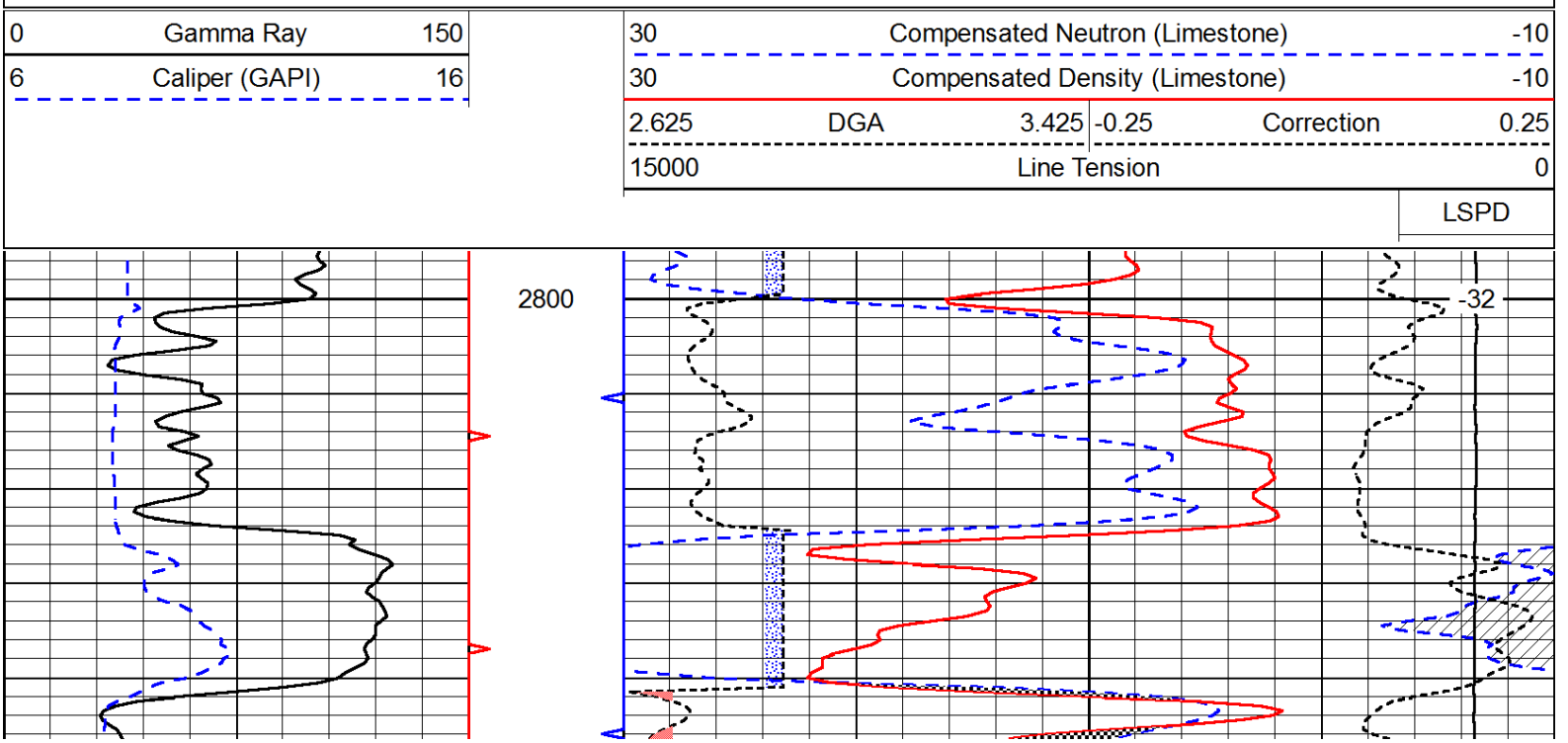
Hwy. 281 & Hwy. 4 Junction, 1 North to 130 Rd., 1/2 East, North Into.

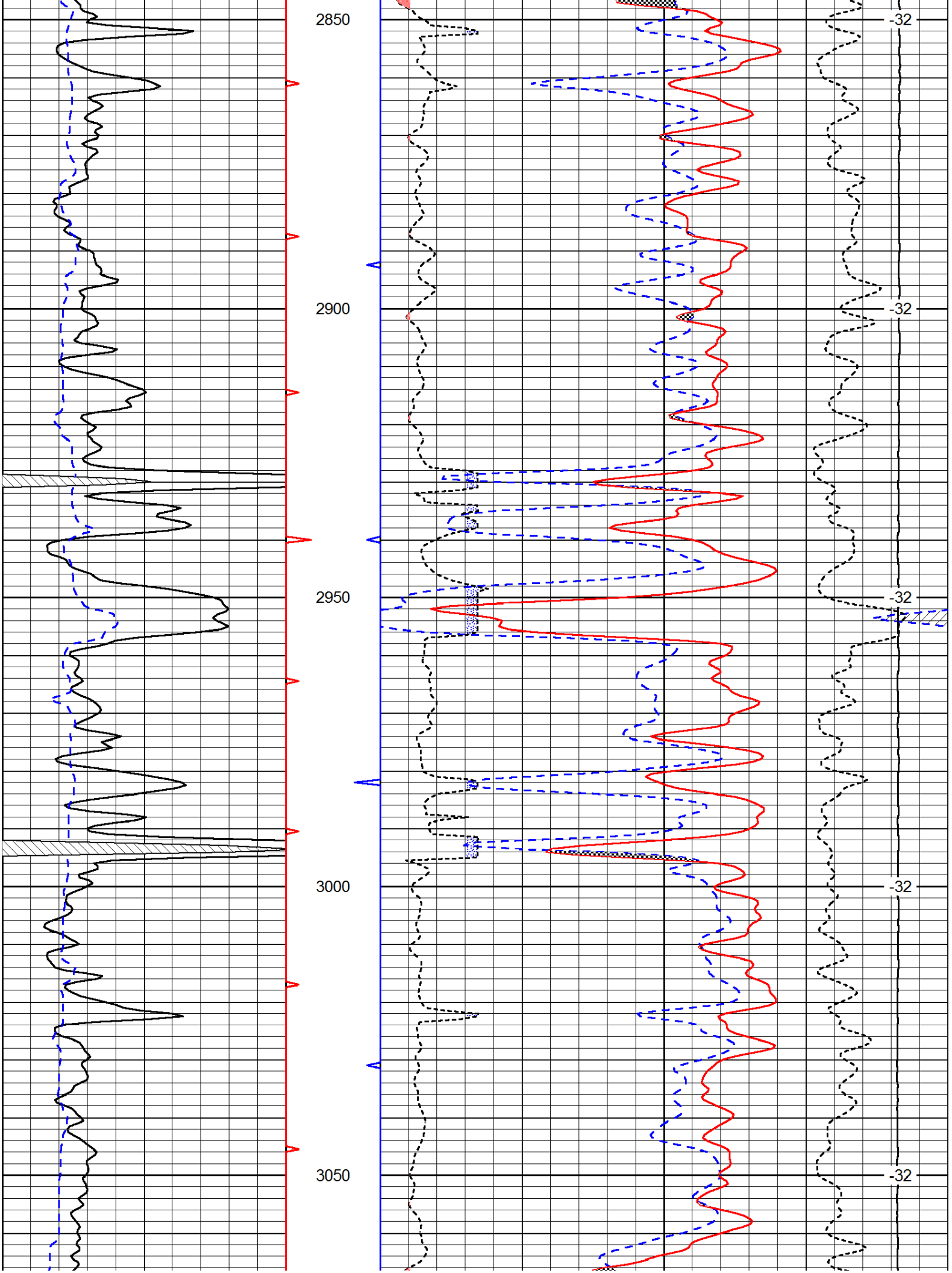
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Presentation Format: cdl
Dataset Creation: Tue Aug 05 16:25:42 2014
Charted by: Depth in Feet scaled 1:600

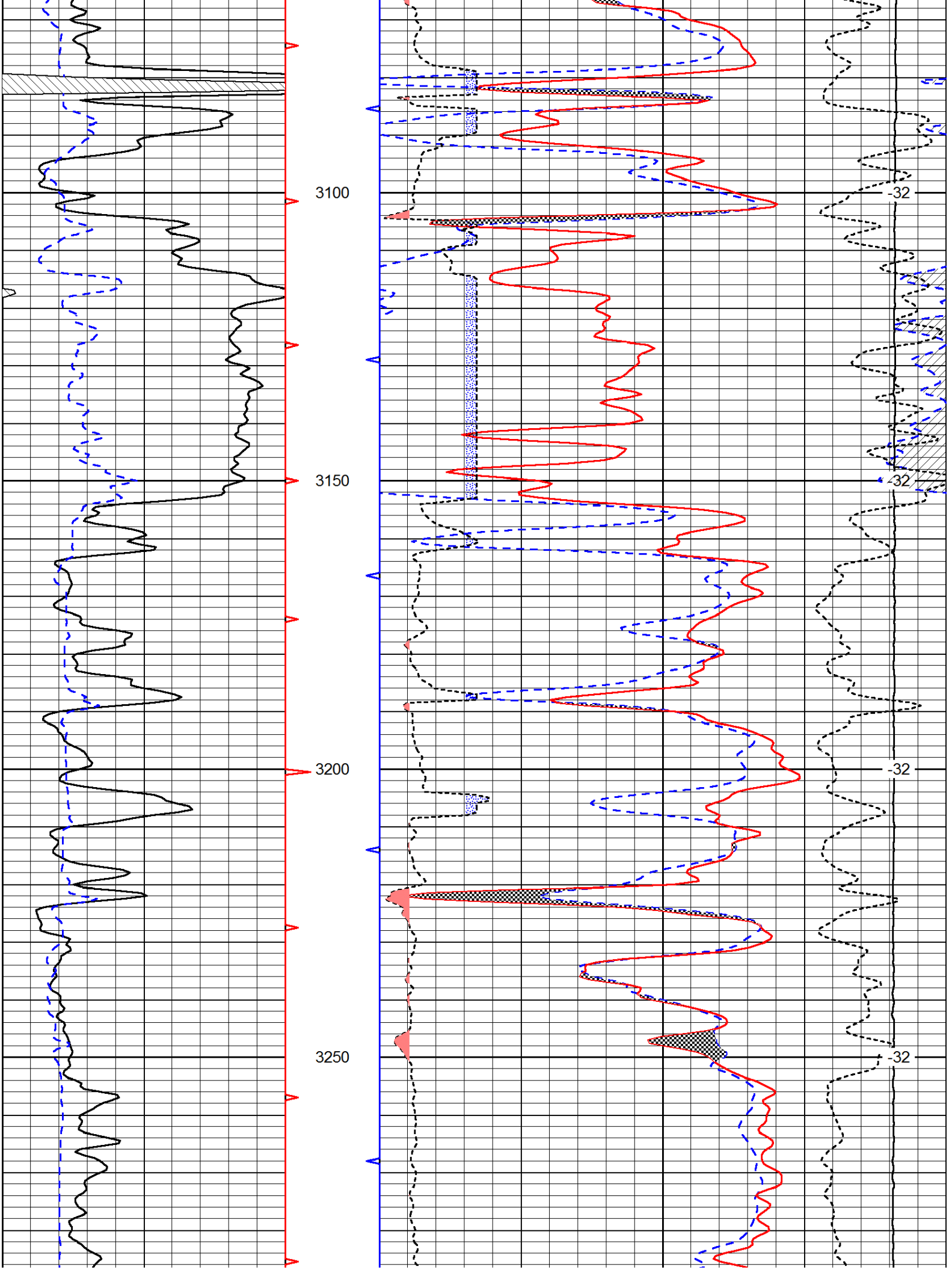

0
Gamma Ray
150
6
Caliper (GAPI)
16
30
Compensated Density
-10
2
Bulk Density
3
15000
Line Tension
0
2.625
DGA
3.425
-0.25
Correction
0.25
LSPD
2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
-32

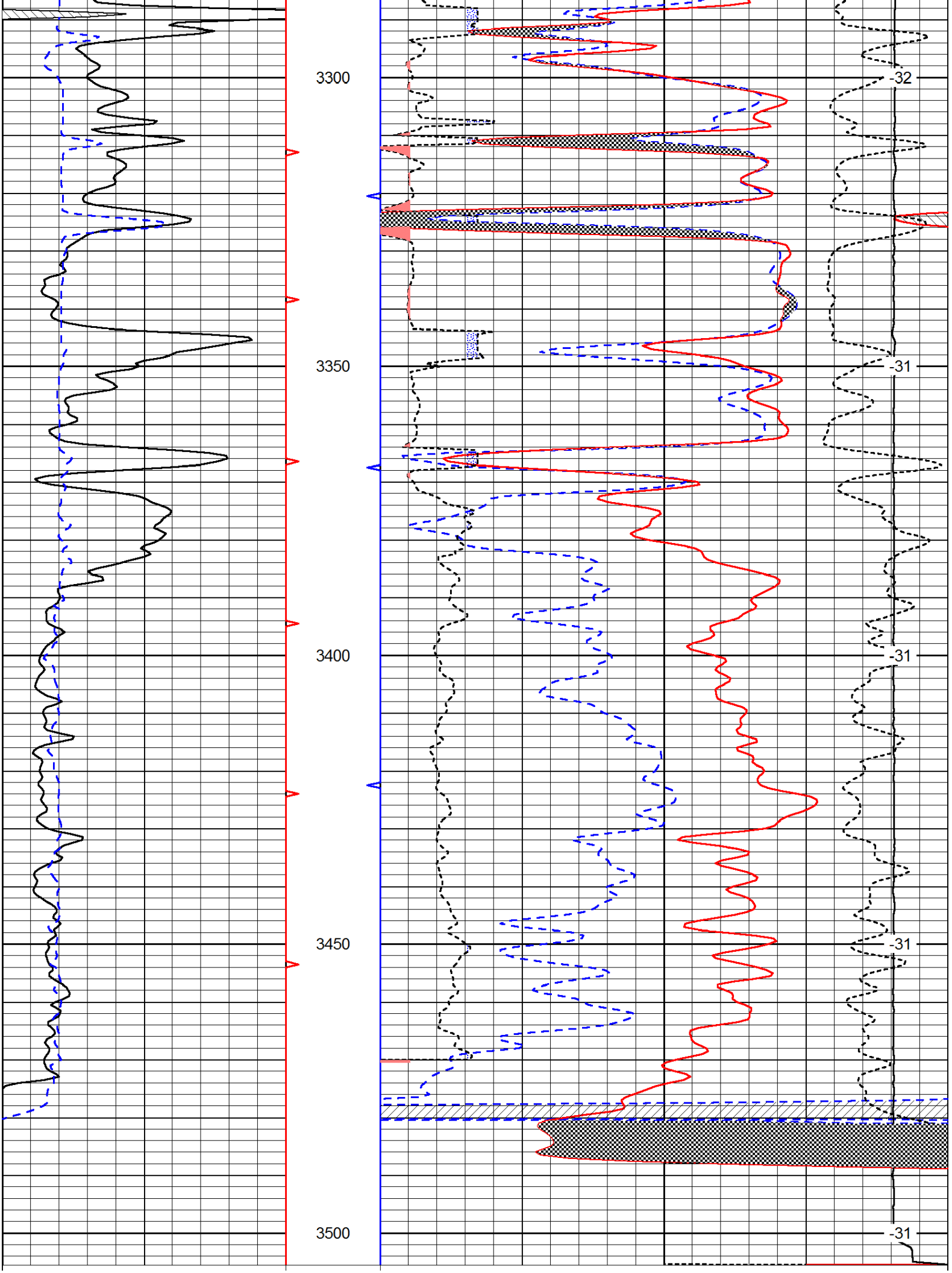


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Charted by: Depth in Feet scaled 1:240




2850
2900
2950
3000
3050
-32
-32
-32
-32


3100
3150
3200
3250
-32
-32
-32


3300
3350
3400
3450
3500
-32
-31
-31
-31
-31

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Neutron (Limestone)				-10
30	Compensated Density (Limestone)				-10
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0

LSPD