PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-009-25,844-00-00

Company Bird Dog Oil, LLC

Well Beaver S-Reif #1-22

Field Kraft-Prusa

County Barton State Kansas

Location 250' FSL & 1,460' FEL

Sec: 22 Twp: 16S Rge: 12W

Other Services
DIL
MEL/BHCS

Elevation
K.B. 1933
D.F.
G.L. 1926

Permanent Datum Ground Level Elevation 1926
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	6/1/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3470
Depth Logger	3465
Bottom Logged Interval	3444
Top Logged Interval	2600
Type Fluid In Hole	Chemical
Salinity, PPM CL	6800
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	Derek Patterson

Borehole Record

Run No.	Bit	From	To
1	12.25	00	435
2	7.875	435	3470

Casing Record

Size	Wgt.	From	To
8.625	24#	00	435

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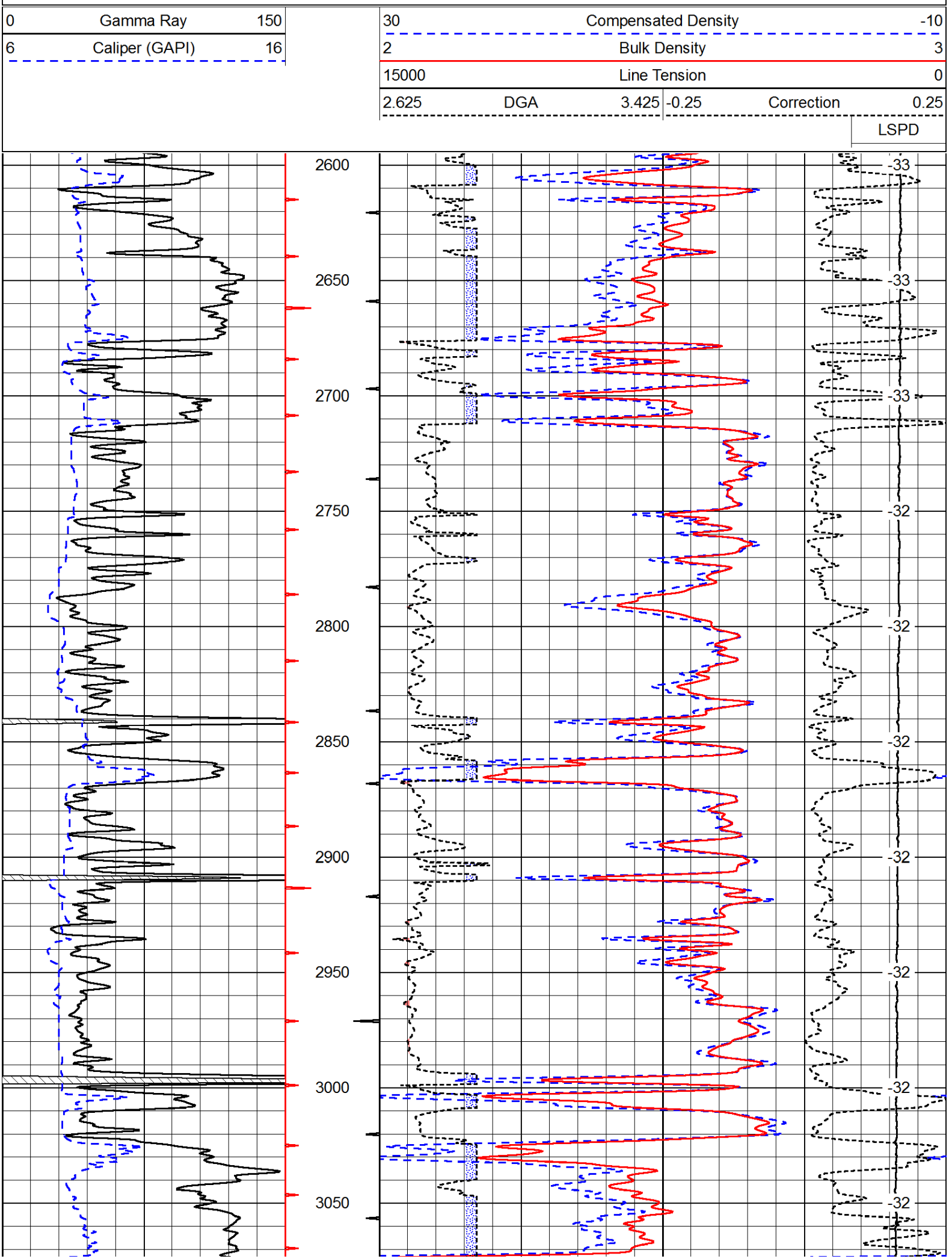
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

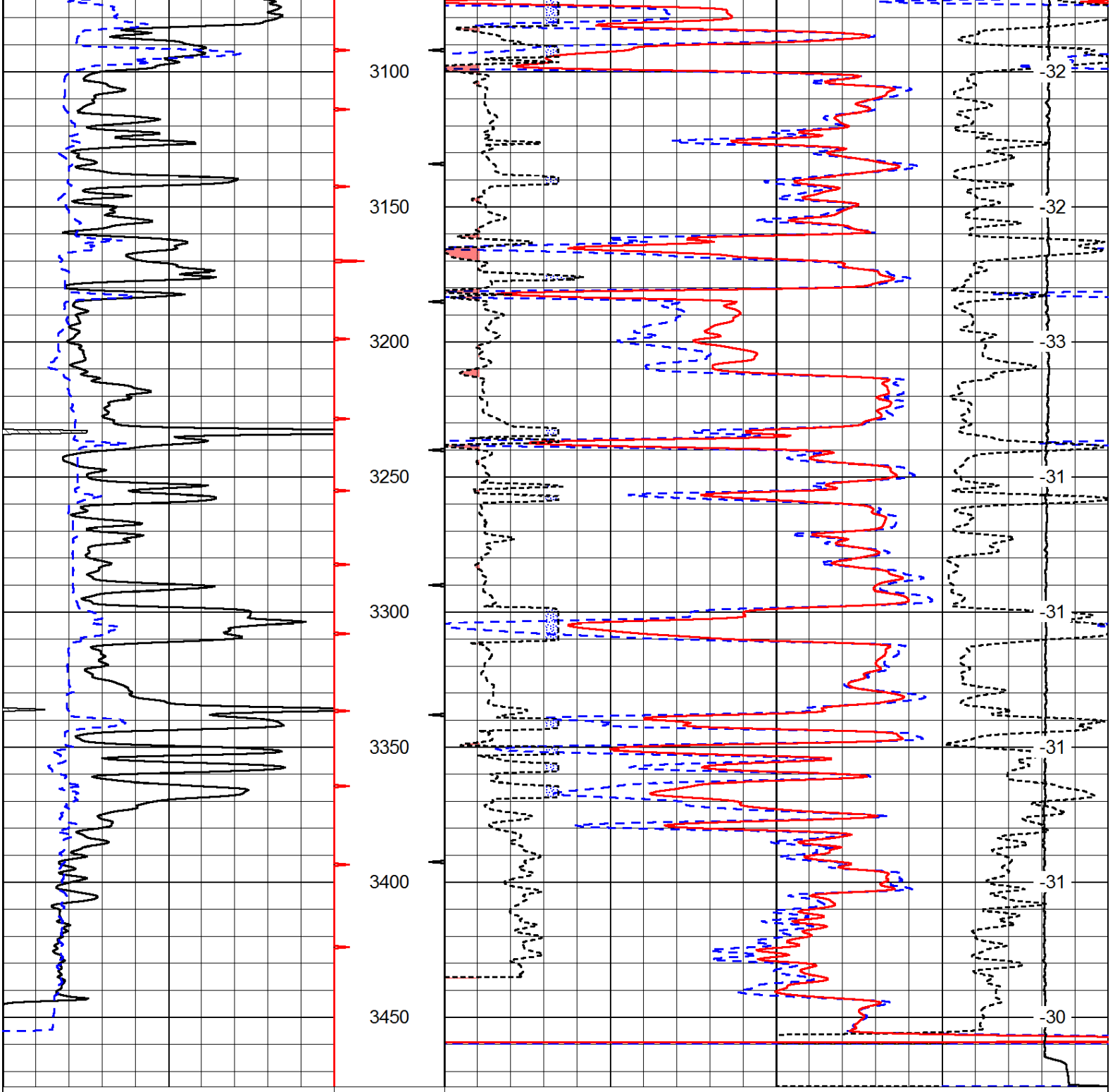
Comments

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

Beaver, 1 1/2 East, North Into

Database File:	c:\warrior\data\bird dog_beaver s-reif #1-22\birddog_beaver_s-reif_1-22hd.db
Dataset Pathname:	dil/birdstck
Presentation Format:	cdl
Dataset Creation:	Sat Jun 01 06:29:48 2013
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
-33
-33
-33
-32
-32
-32
-32
-32
-32

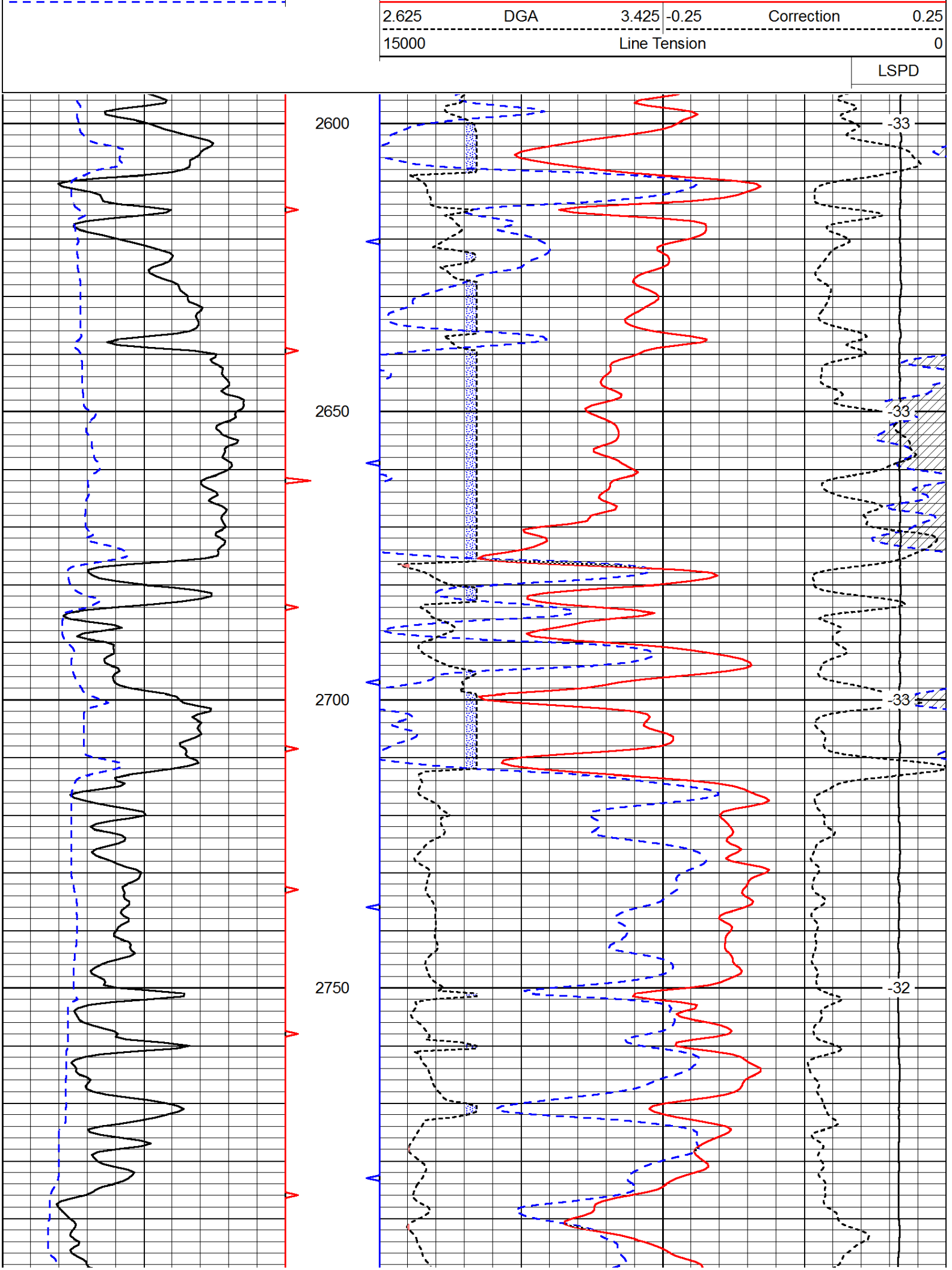


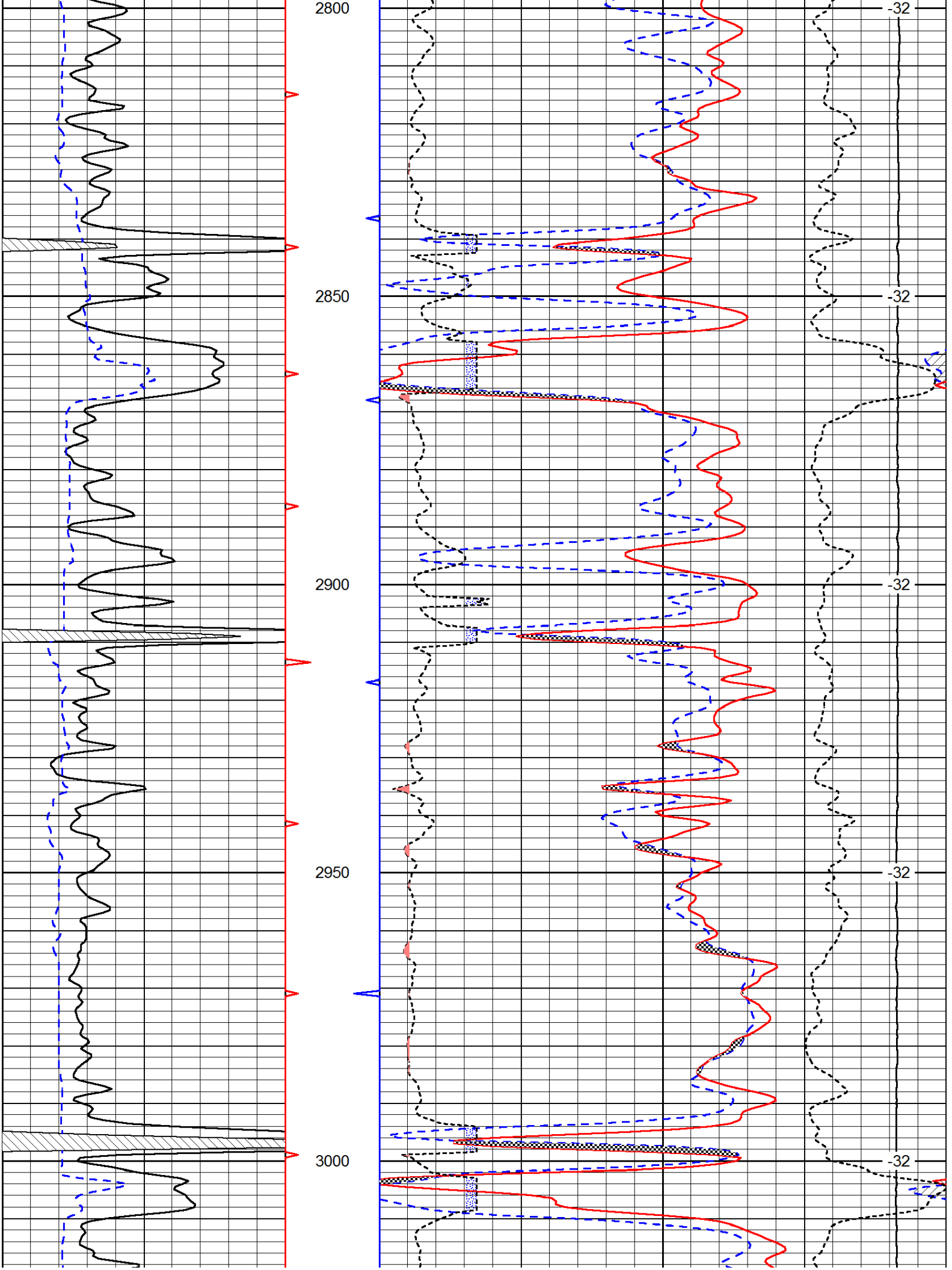
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6	Caliper (GAPI)	16

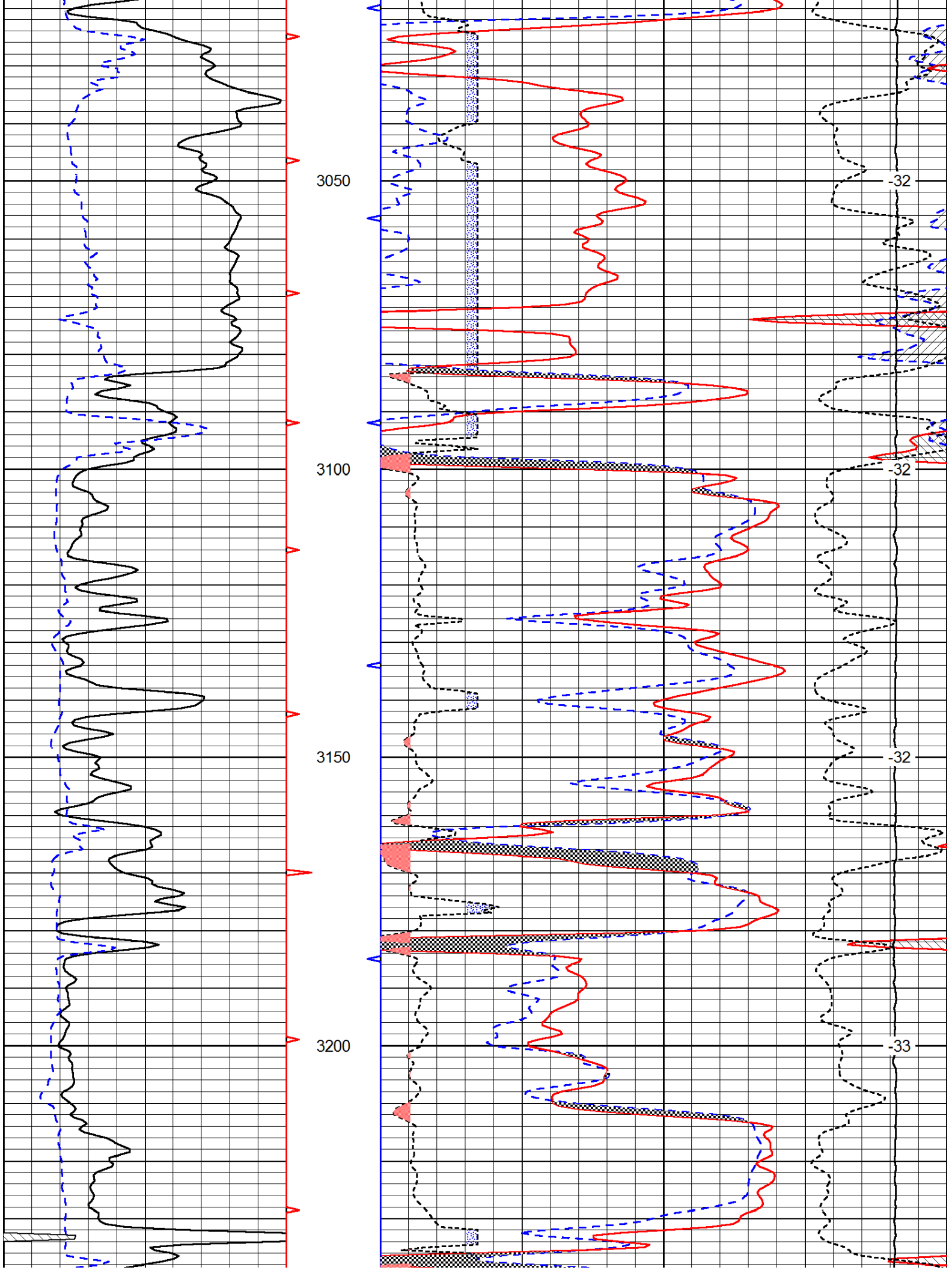
30	Compensated Density				-10
2	Bulk Density				3
15000	Line Tension				0
2.625	DGA	3.425	-0.25	Correction	0.25
				LSPD	

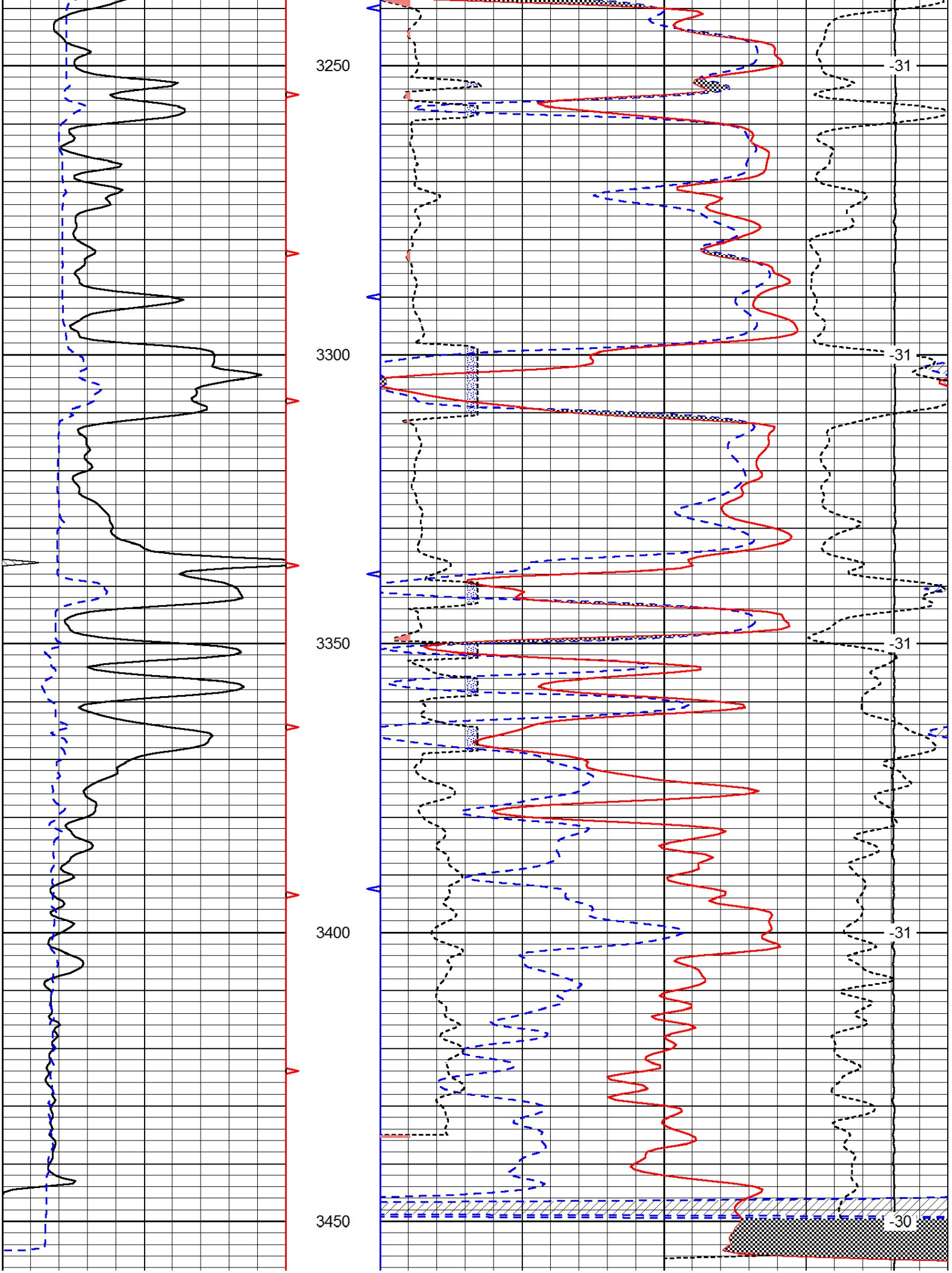
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Dataset Pathname:	dil/birdstck
Presentation Format:	cndlspec
Dataset Creation:	Sat Jun 01 06:29:48 2013
Charted by:	Depth in Feet scaled 1:240

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


2.625
DGA
3.425
-0.25
Correction
0.25
15000
Line Tension
0
LSPD
2600
2650
2700
2750
-33
-33
-33
-32


2800
2850
2900
2950
3000
-32
-32
-32
-32


3050
3100
3150
3200
-32
-32
-32
-33


3250
3300
3350
3400
3450
-31
-31
-31
-31
-30

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

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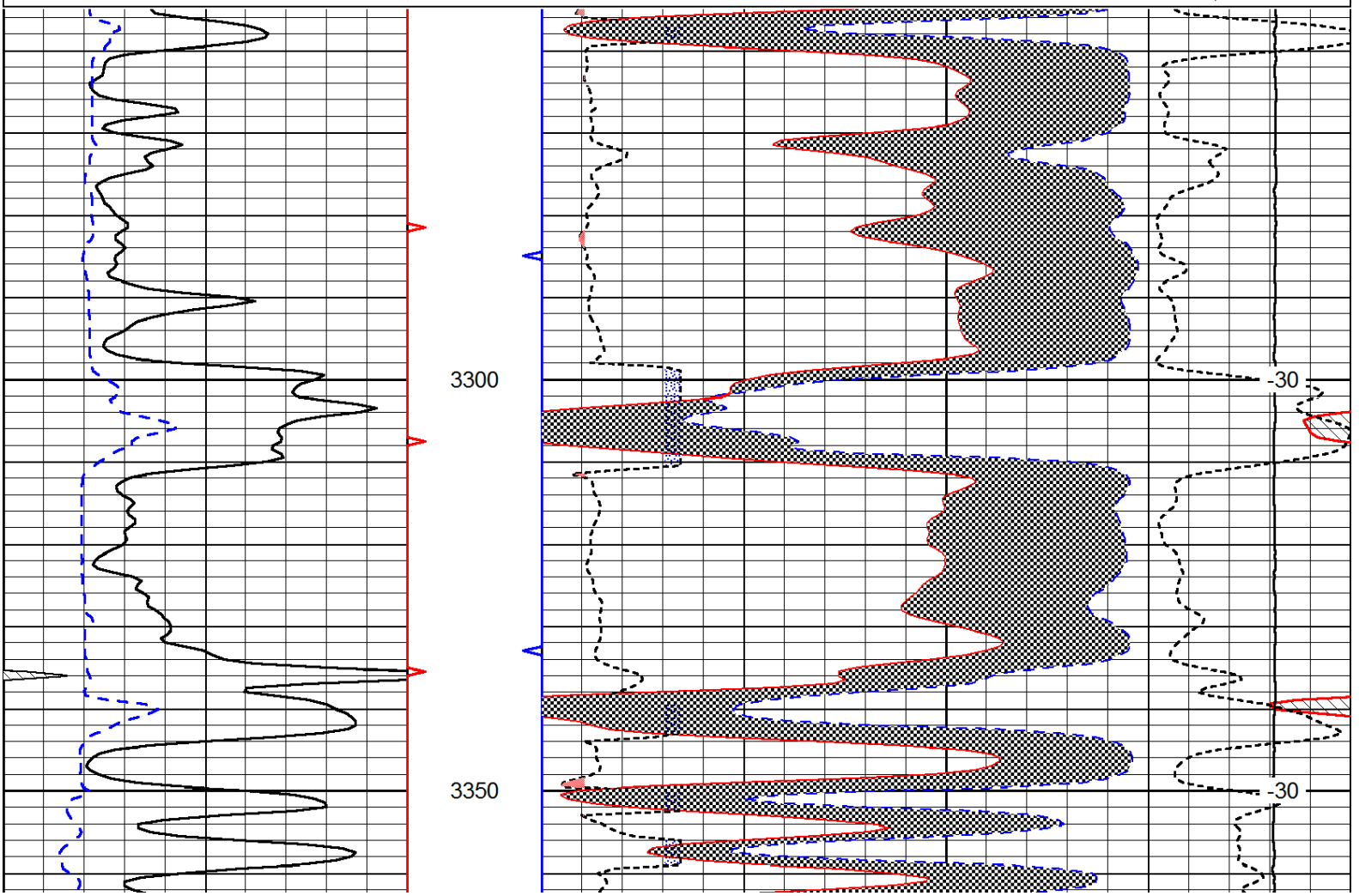
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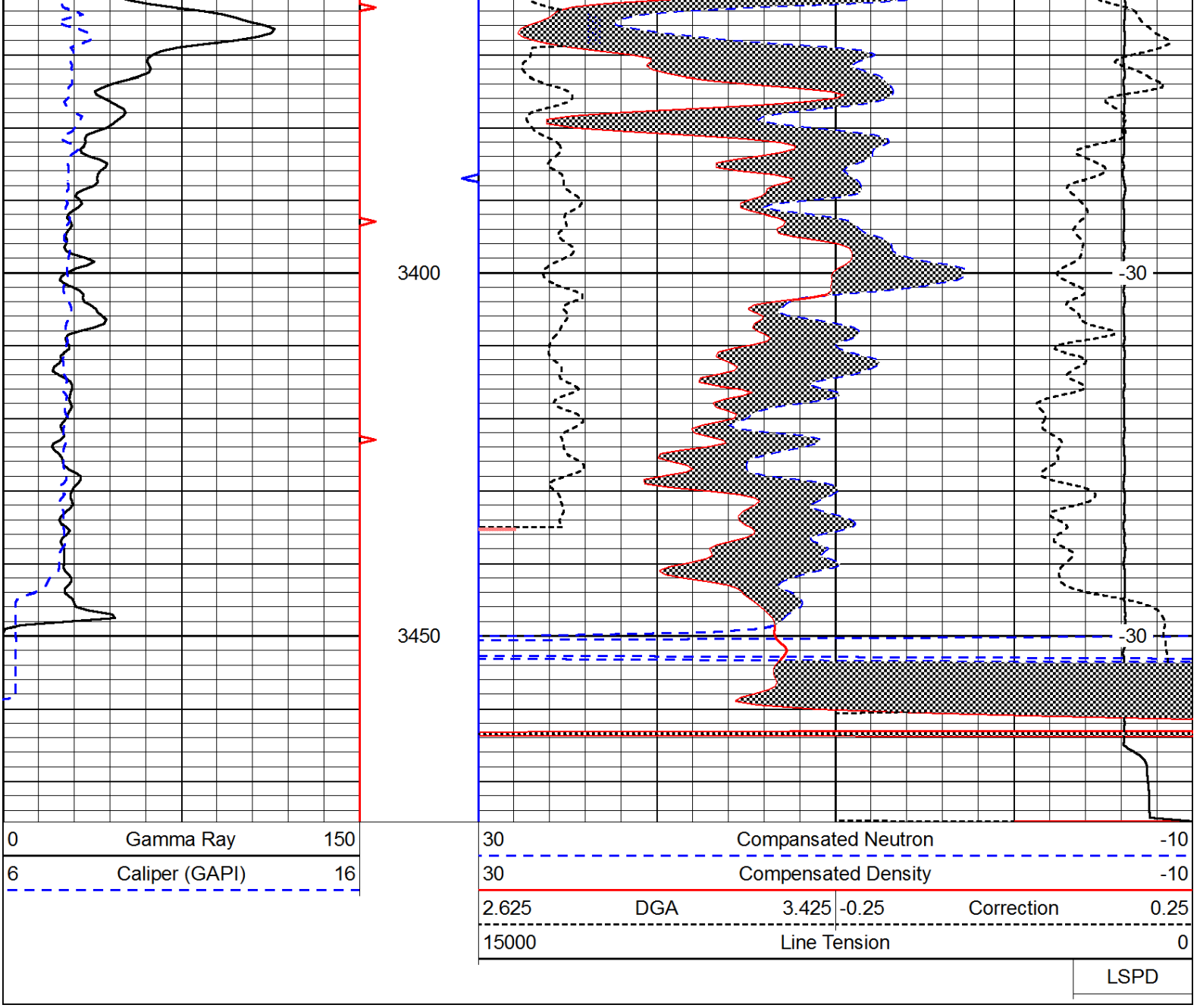
Dolomite Matrix (2.83)

Database File:	c:\warrior\data\bird dog_beaver s-reif #1-22\birddog_beaver_s-reif_1-22hd.db
Dataset Pathname:	dil/bird283
Presentation Format:	cndldolo
Dataset Creation:	Sat Jun 01 06:29:48 2013
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compansated Neutron				-10
30	Compensated Density				-10
2.625	DGA	3.425	-0.25	Correction	0.25
15000	Line Tension				0
					LSPD




3400
3450
-30
-30
0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compansated Neutron -10
30 Compensated Density -10
2.625 DGA 3.425 -0.25 Correction 0.25
15000 Line Tension 0
LSPD