



Pioneer Energy Services

Dual Compensated Porosity Log

15-163-24123-00-00

API No.

Company **Great Plains Energy, Inc.**

Well **Odle #1-8**

Field **Wildcat**

County **Rooks**

State **Kansas**

Location

480' FSL & 1650' FWL

Other Services
DIL
MEL/BHCS

Sec: **8**

Twp: **7S**

Rge: **18W**

Elevation

Permanent Datum **Ground Level** Elevation **1936**

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

K.B. 1944
D.F. 1936
G.L. 1936

Drilling Measured From **Kelly Bushing**

Date **6/14/2013**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **3509**

Depth Logger **3507**

Bottom Logged Interval **3486**

Top Logged Interval **2800**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **2000**

Density **9.2**

Level **Full**

Max. Rec. Temp. F **113**

Operating Rig Time **4 1/2 Hours**

Equipment -- Location **91 Hays**

Recorded By **D. Schmidt**

Witnessed By **Mike Madcharo**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	220	8.625	24#	00	220
2	7.875	220	3509				

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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.

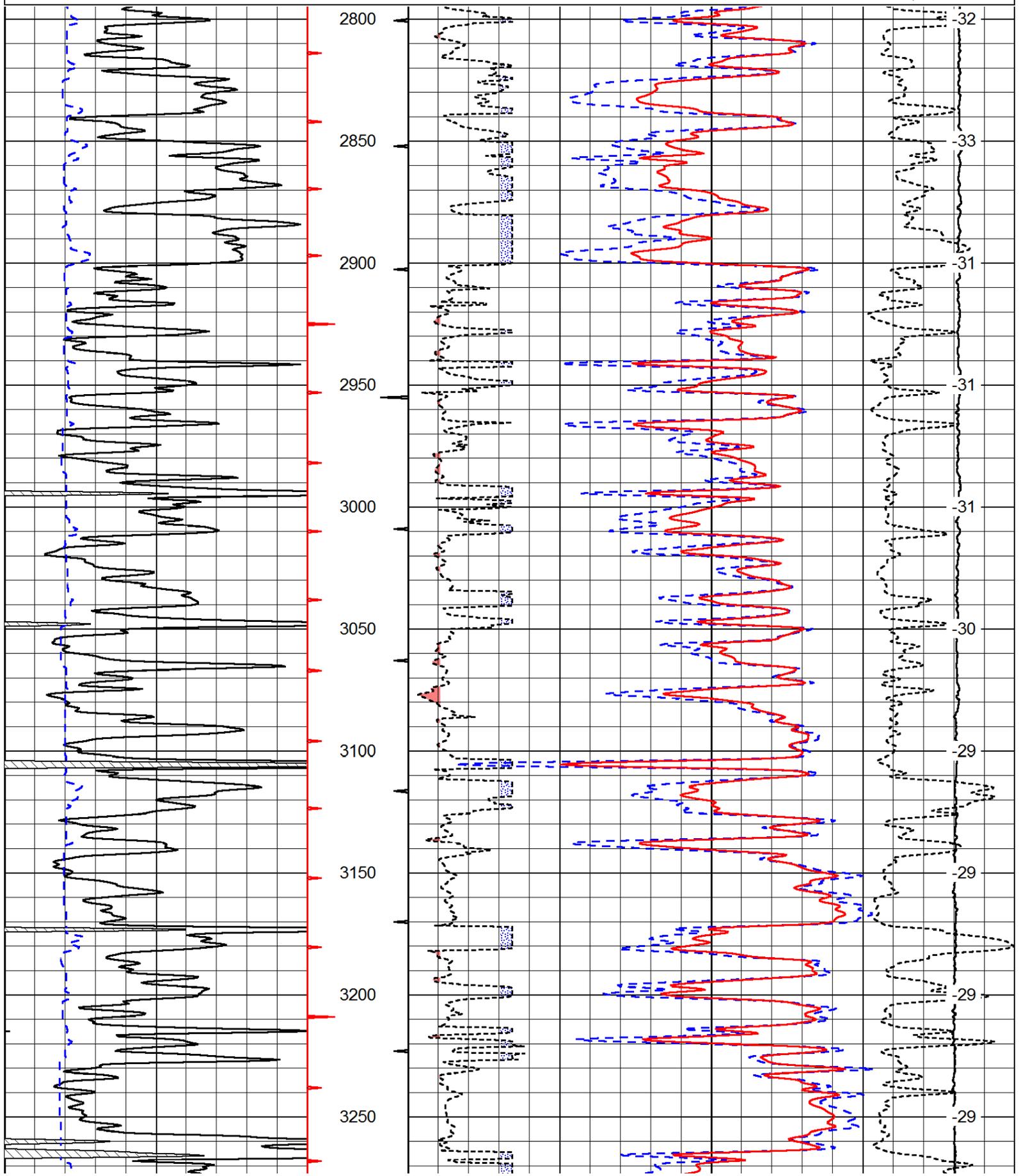
Comments

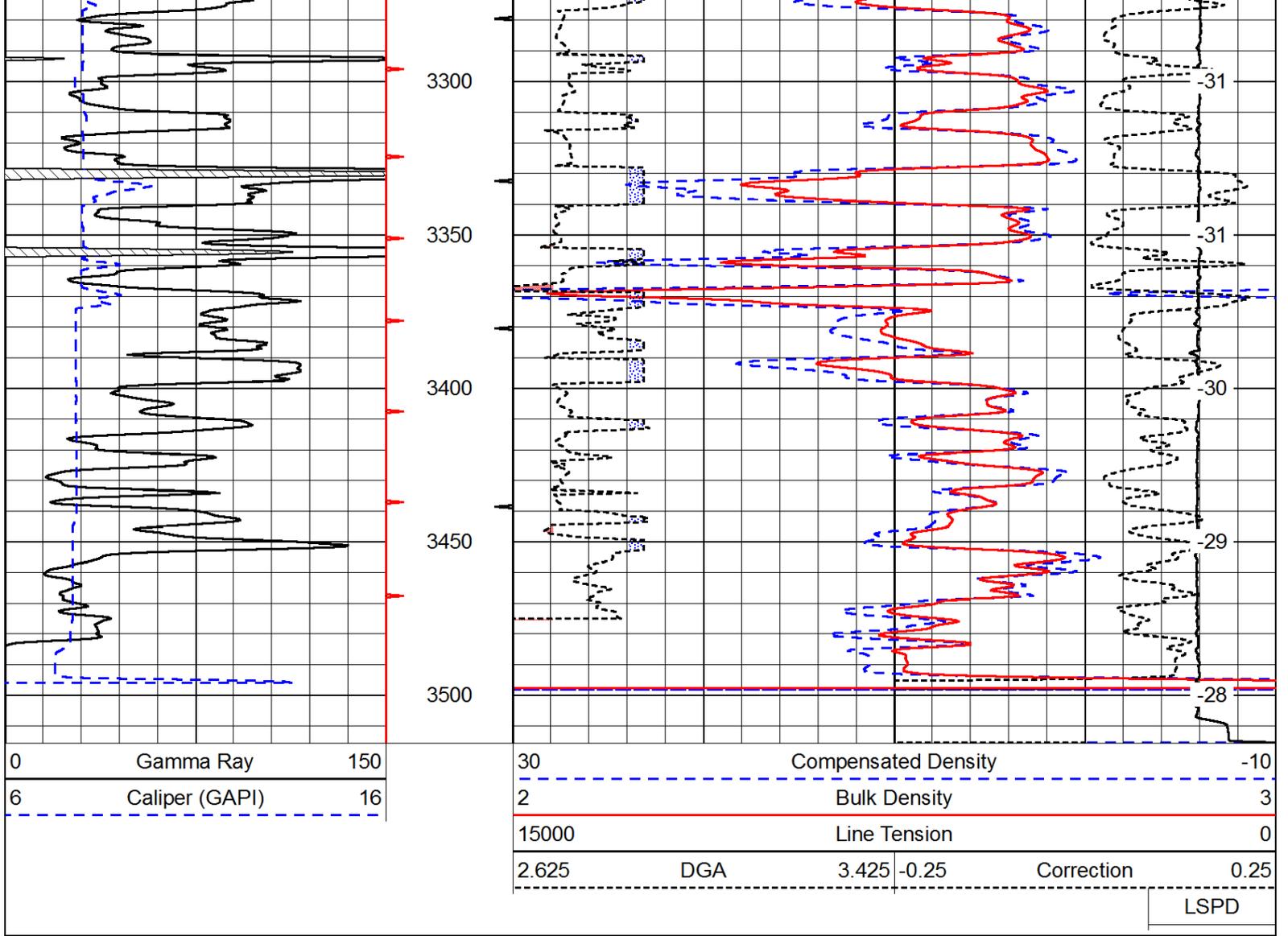
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858
 Stockton,
 4 3/4 West to 14 Rd, 2 North,
 North and East into

Database File: c:\warrior\data\great plains_odle #1-8\great plains_061413hd.db
 Dataset Pathname: dil/gpstack
 Presentation Format: cdl
 Dataset Creation: Fri Jun 14 15:58:25 2013
 Charted by: Depth in Feet scaled 1:600

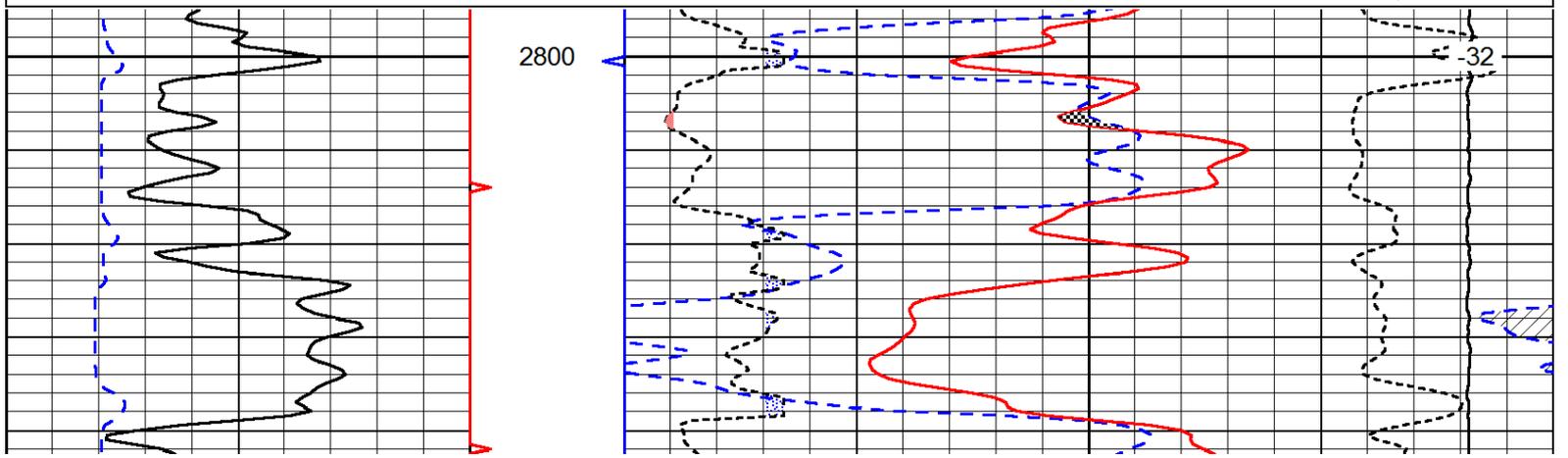
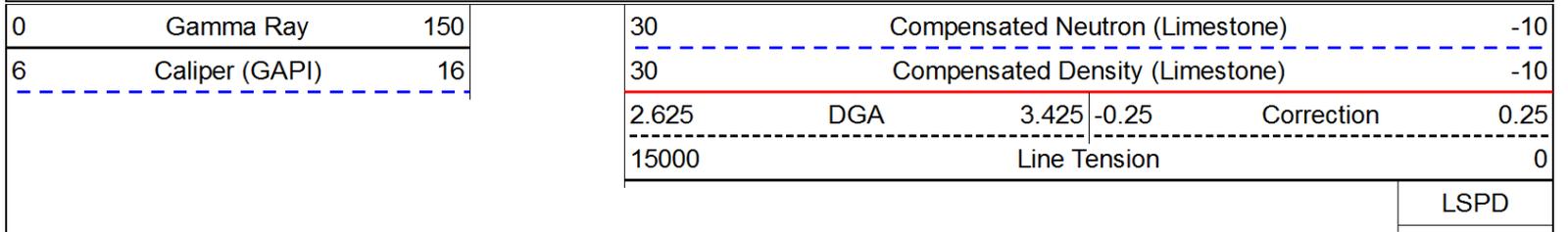
0	Gamma Ray	150
6	Caliper (GAPI)	16

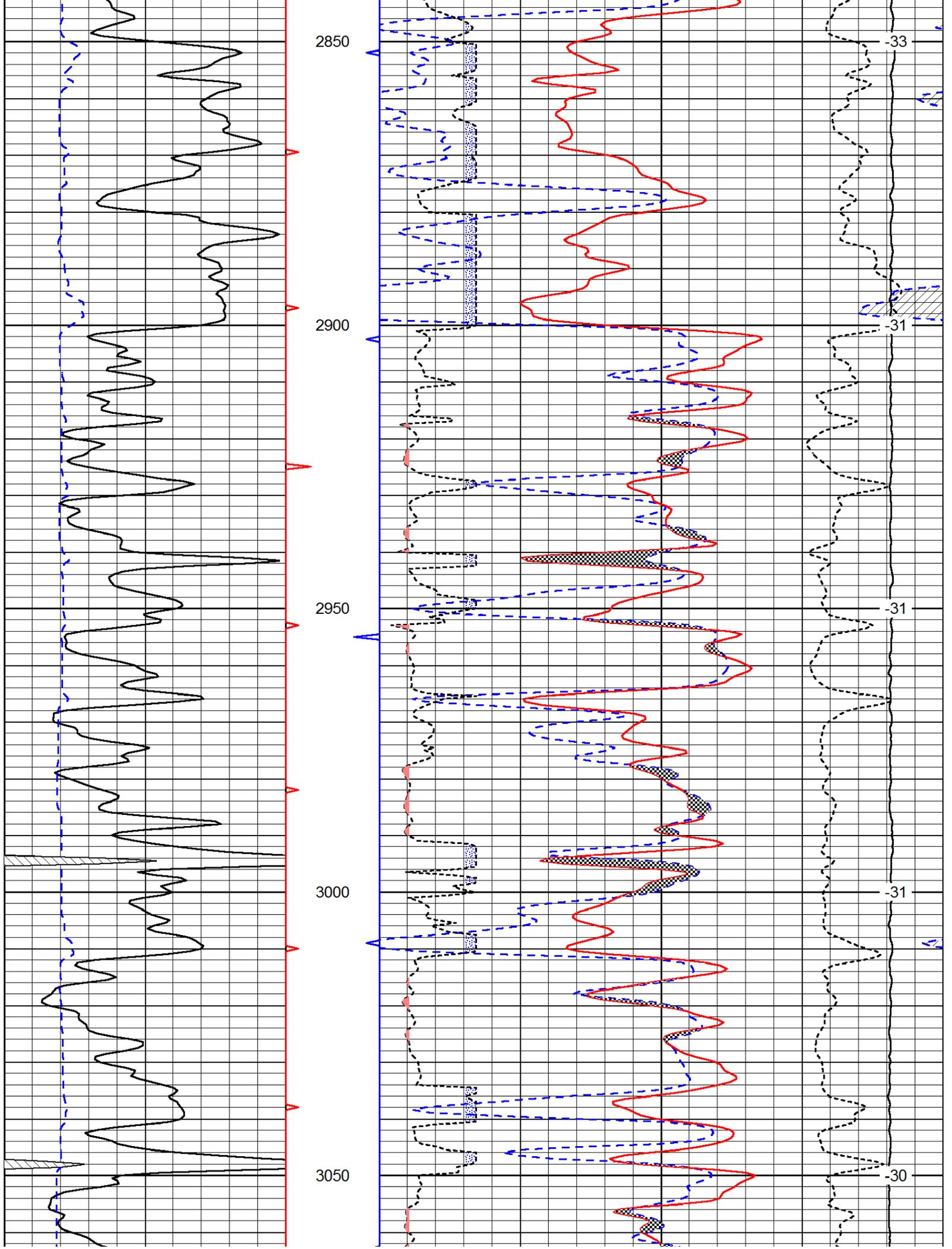
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

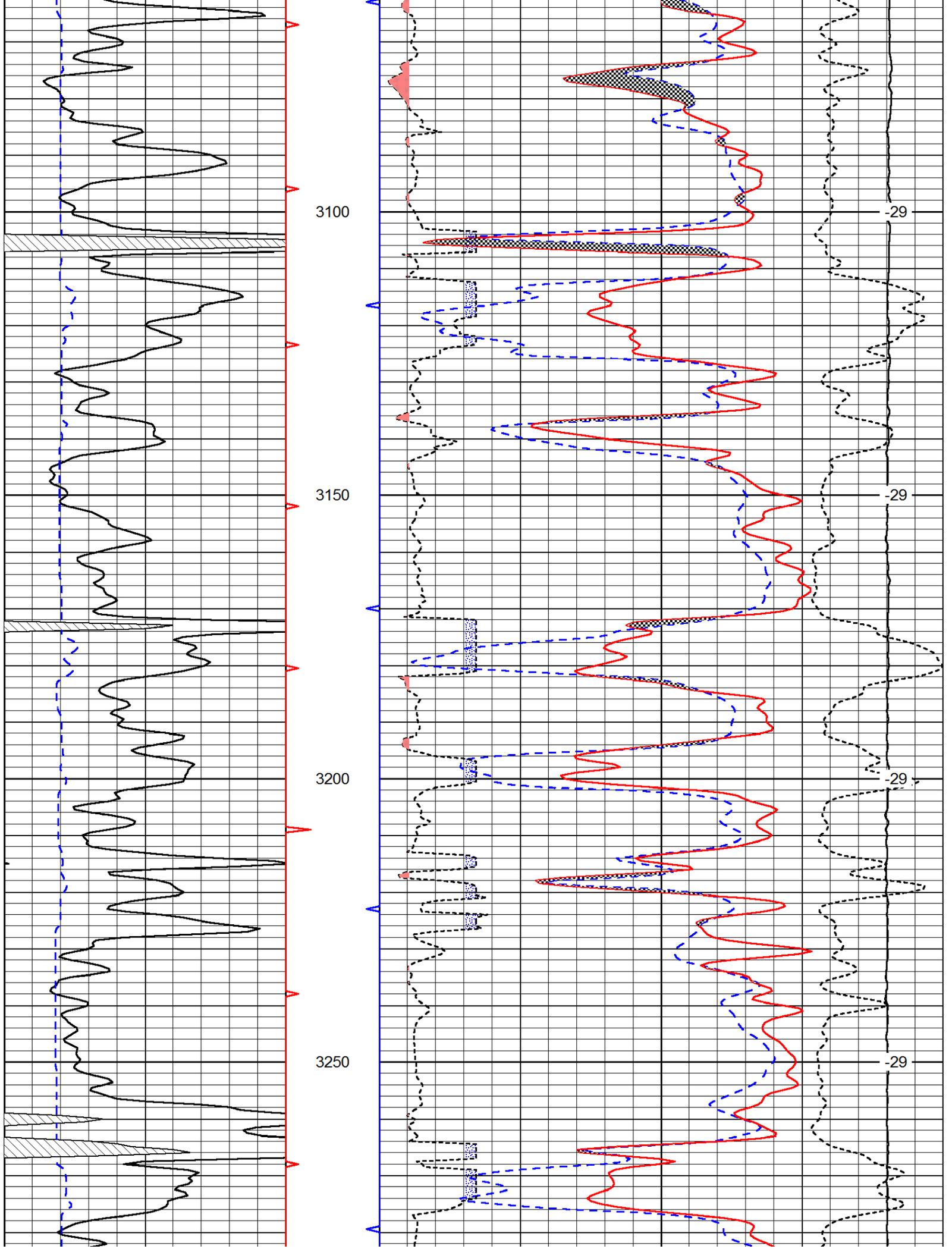


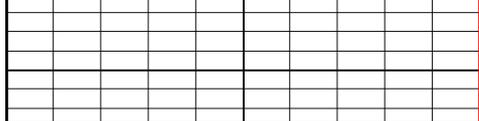


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 Presentation Format: cndlspec
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 Charted by: Depth in Feet scaled 1:240



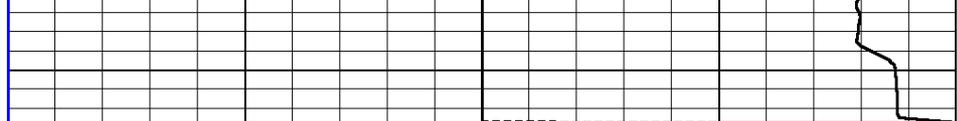






0	Gamma Ray	150
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6	Caliper (GAPI)	16
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30	Compensated Neutron (Limestone)	-10
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30	Compensated Density (Limestone)	-10
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2.625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