



Pioneer Energy Services

Dual Compensated Porosity Log

15-163-24,259-00-00

API No.

Company **H&C Oil Operating, Inc.**

Well **Kern #3**

Field **Kern**

County **Rooks**

State **Kansas**

Location

**NE-SE-SW-SW
596' FSL & 1186' FWL**

Other Services
DIL
MEL

Sec: **28**

Twp: **9S**

Rge: **20W**

Permanent Datum

Ground Level

Elevation **2298**

Log Measured From

Kelly Bushing

7 Ft. Above Perm. Datum

Drilling Measured From

Kelly Bushing

K.B. **2305**
D.F.
G.I.L. **2298**

Date

10/1/2014

Run Number

One

Type Log

CNL / CDL

Depth Driller

3955

Depth Logger

3953

Bottom Logged Interval

3932

Top Logged Interval

3200

Type Fluid In Hole

Chemical

Salinity, PPM CL

1,200

Density

9.6

Level

Full

Max. Rec. Temp. F

116

Operating Rig Time

3 1/2 Hours

Equipment -- Location

10 Hays

Recorded By

J. Henrickson

Witnessed By

Marc Downing

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	262	8.625	24#	00	262
2	7.875	262	3955				

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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

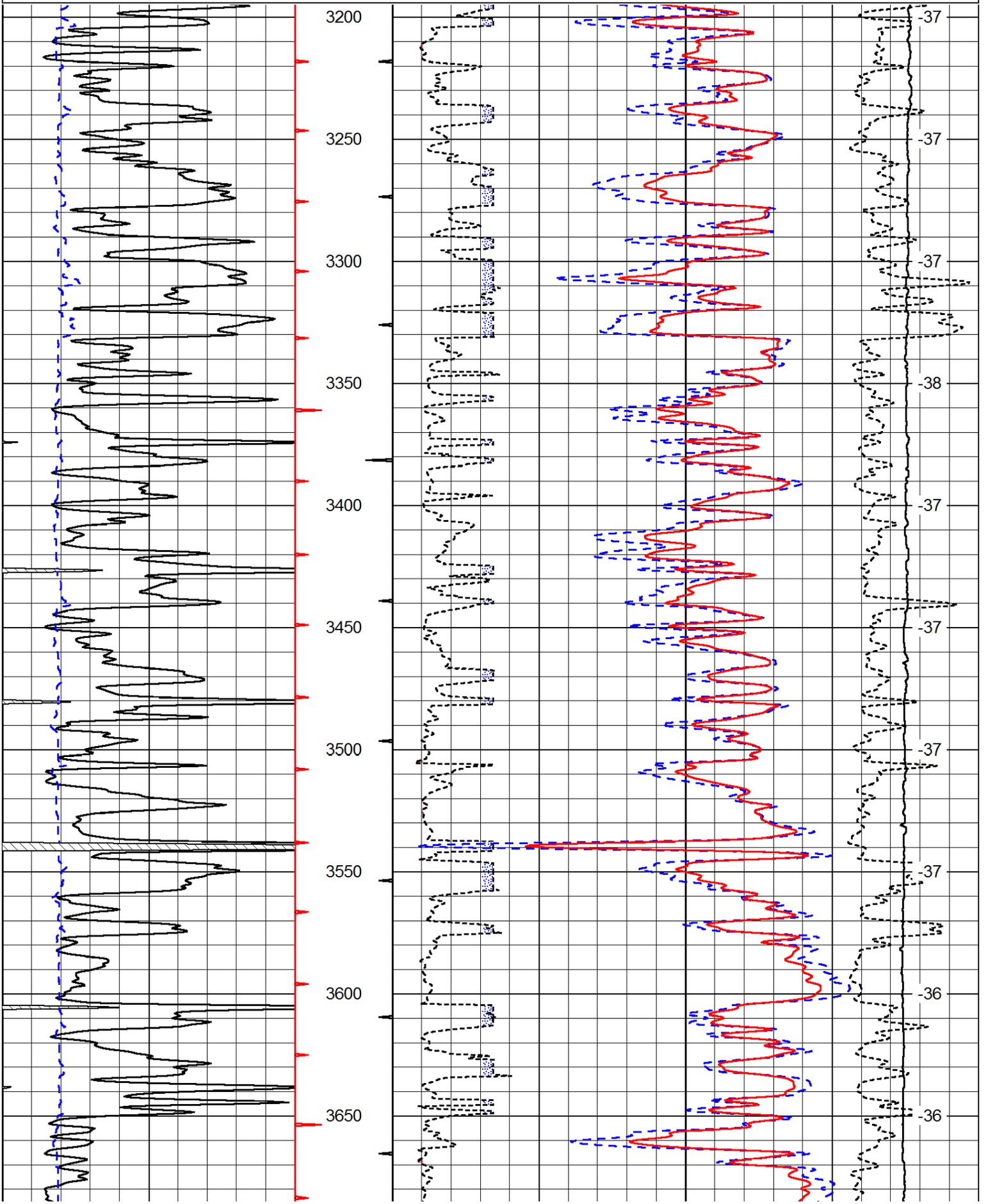
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858
 Palco Kansas
 1 South to Red Line Rd, 1/2 West, South Into

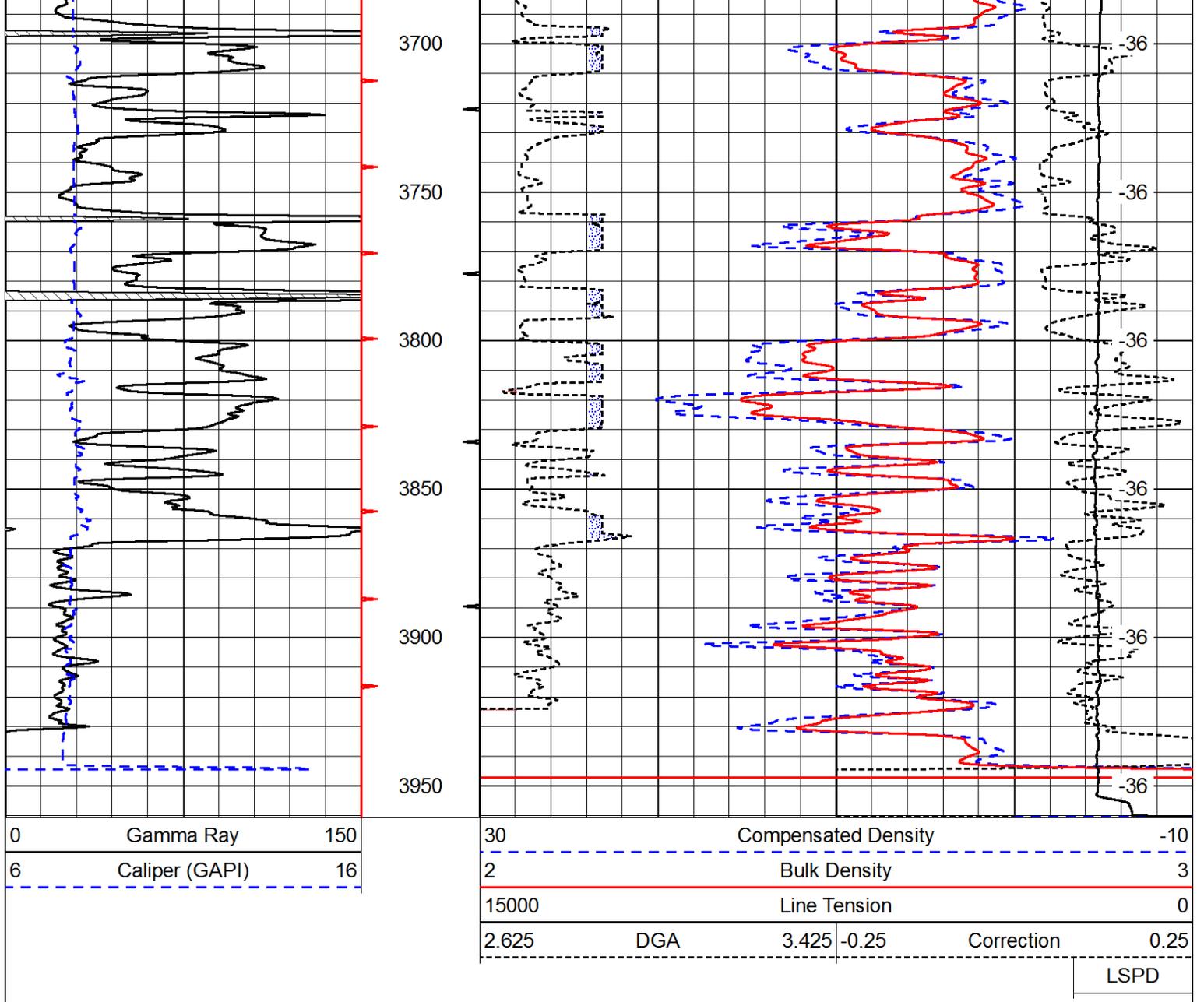
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 Dataset Pathname: DIL/hcstk
 Presentation Format: cdl
 Dataset Creation: Wed Oct 01 09:40:47 2014
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

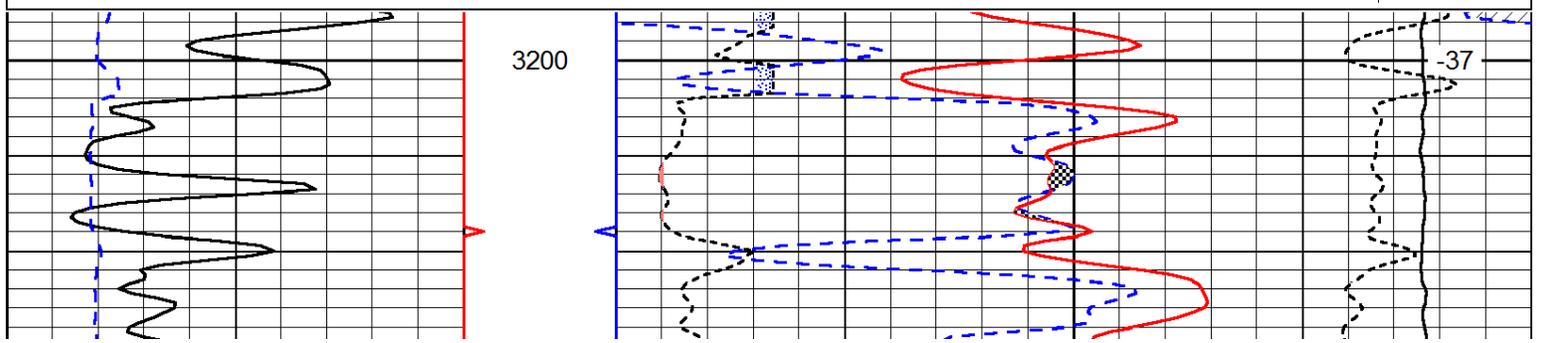
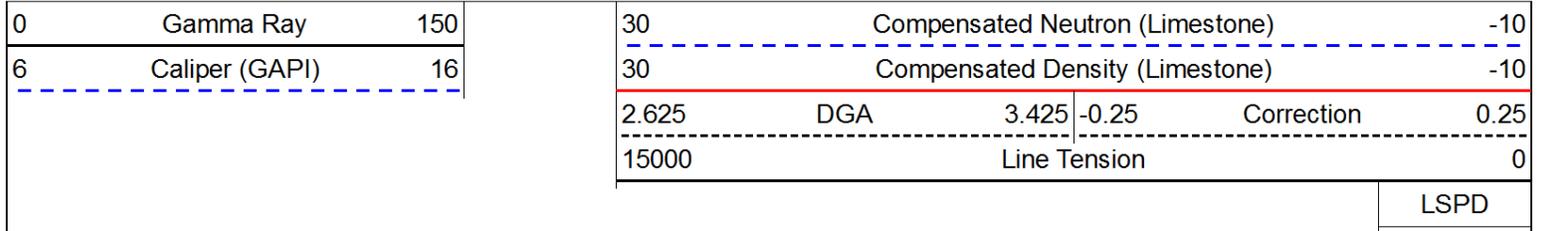
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25

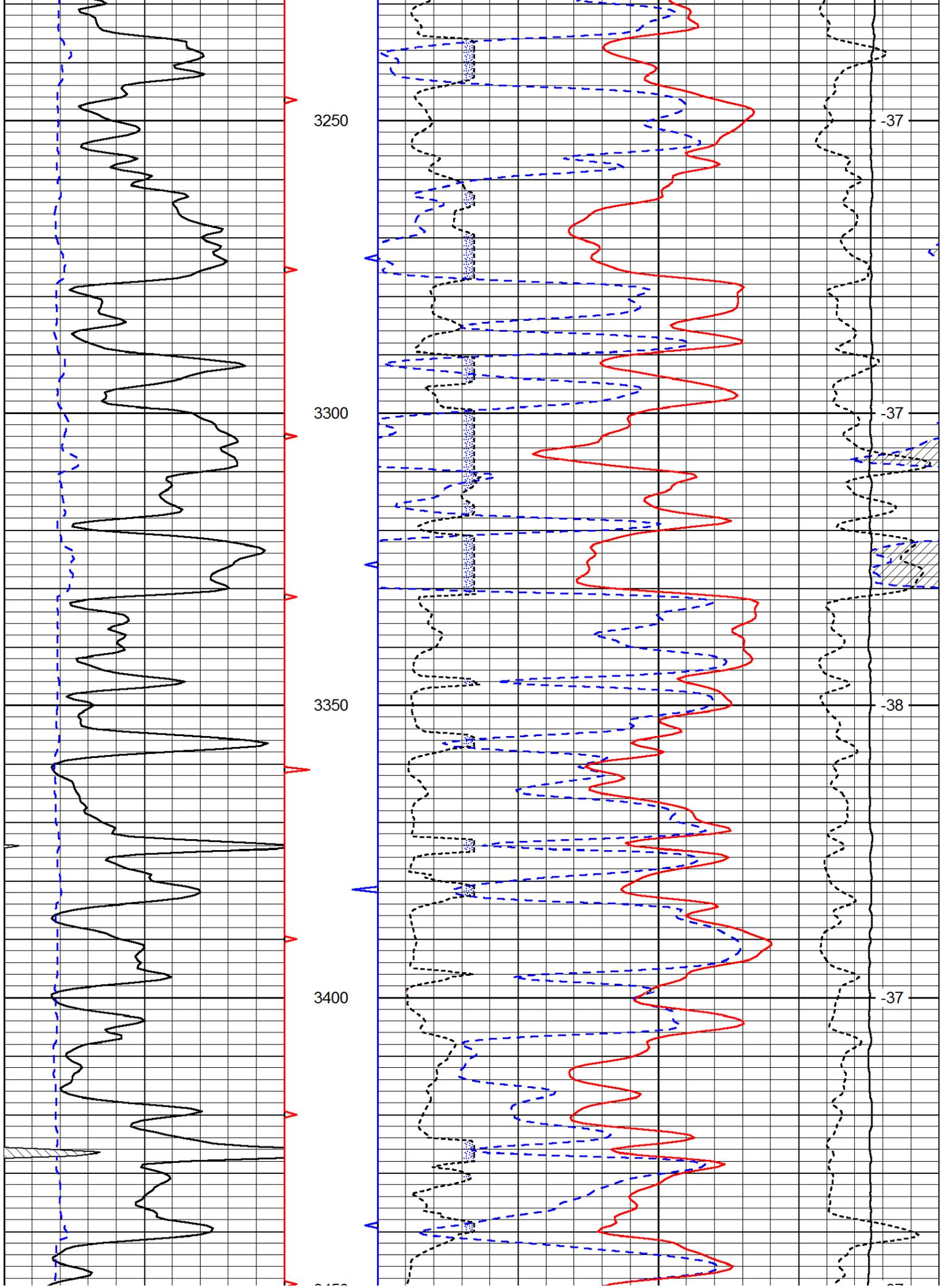
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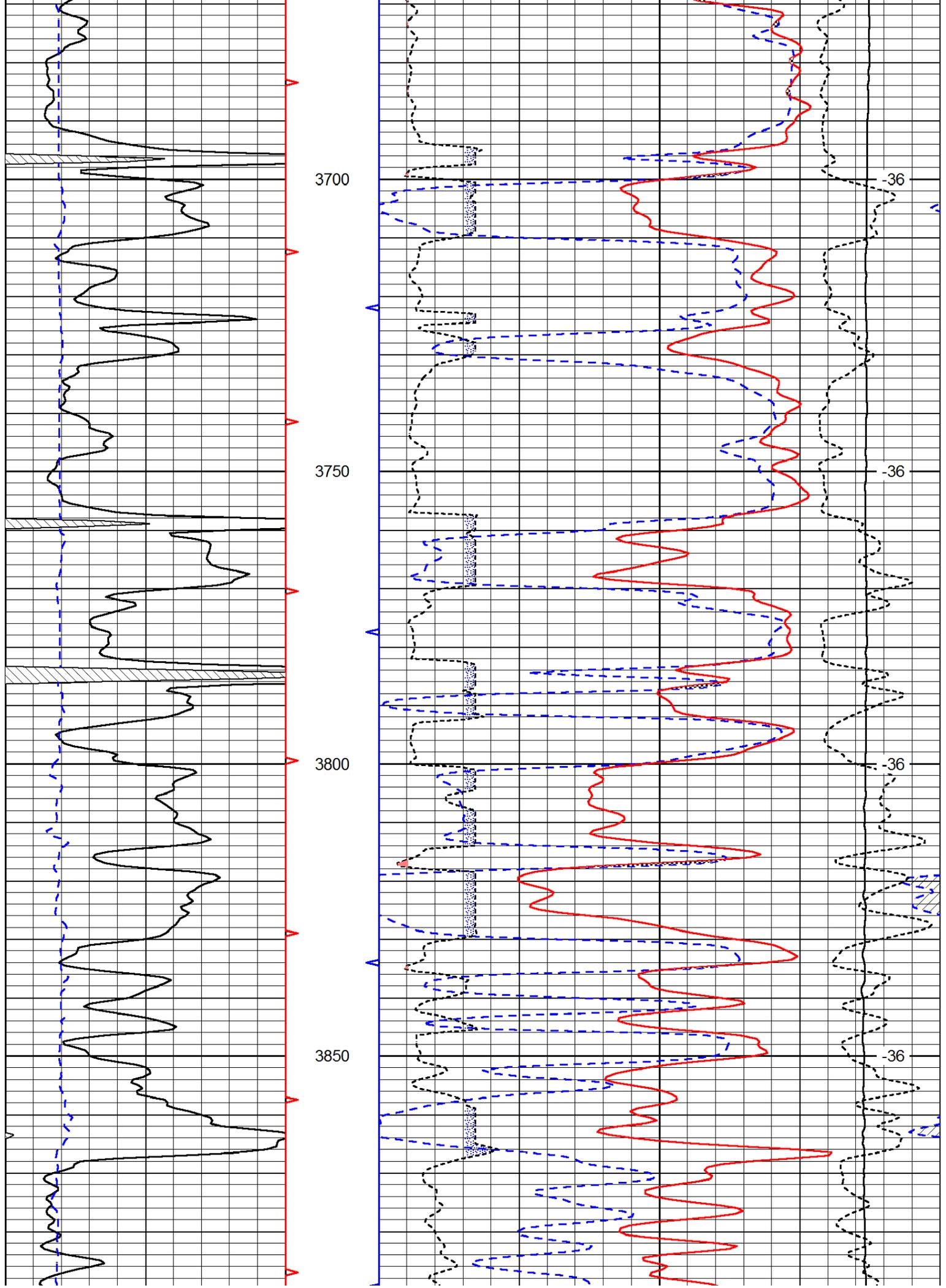


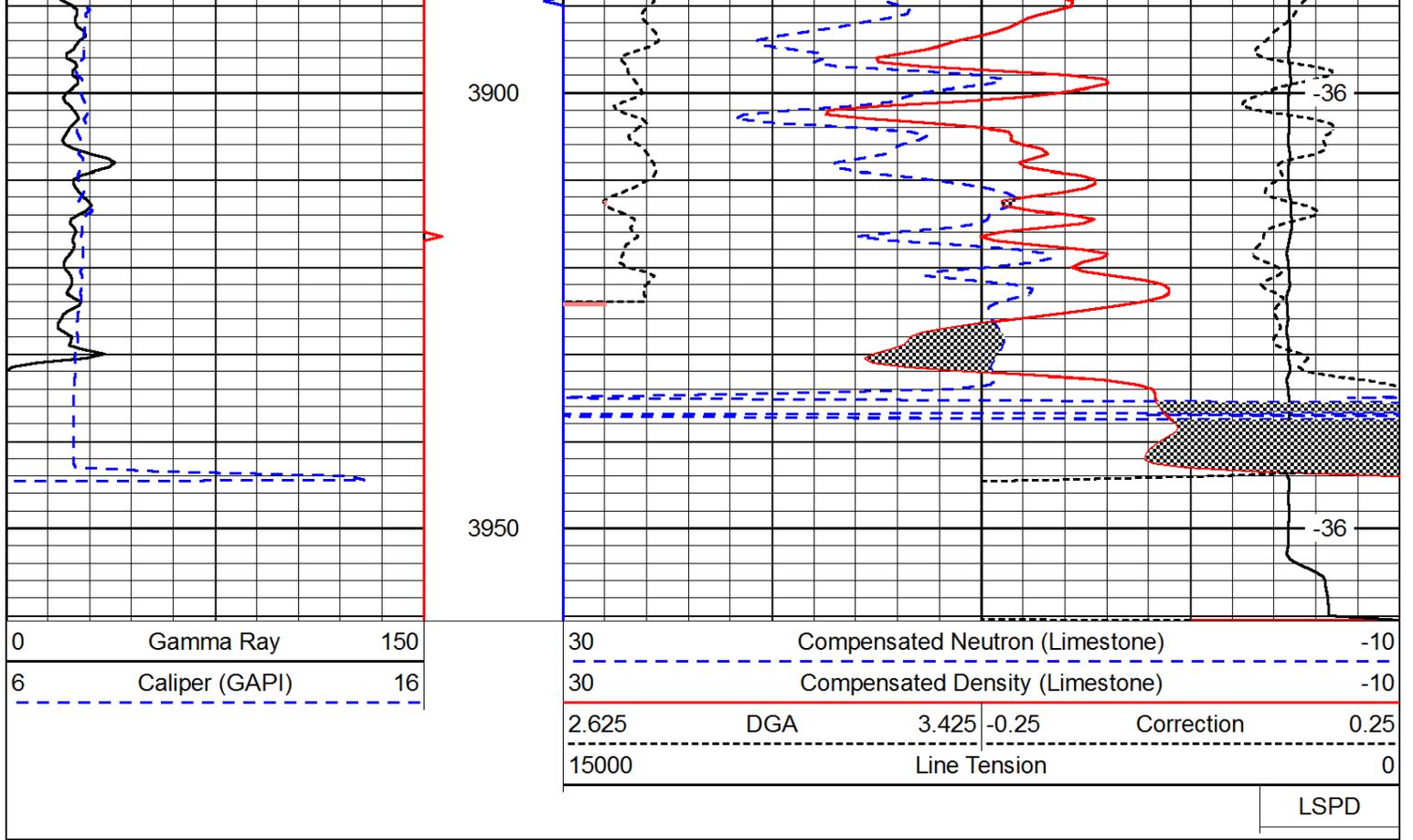


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