PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-035-24,522-00-00

Company Toto Energy, LLC

Well Baker #19-1

Field Jarvis Gas Area

County Cowley State Kansas

Location SE-SW 660' FSL & 1980' FWL

Sec: 19 Twp: 33S Rge: 6E

Permanent Datum Ground Level Elevation 1297

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
DIL
MEL

Elevation
K.B. 1308
D.F.
G.L. 1297

Date	10/16/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3600
Depth Logger	3599
Bottom Logged Interval	3578
Top Logged Interval	1700
Type Fluid In Hole	Chemical
Salinity, PPM CL	1,000
Density	9.35
Level	Full
Max. Rec. Temp. F	112
Operating Rig Time	3 1/2 Hours
Equipment -- Location	108 Hays
Recorded By	J. Henrickson
Witnessed By	Harley Sales

Borehole Record

Run No.	Bit	From	To
1	12.25	00	365
2	7.875	365	3600

Casing Record

Size	Wgt.	From	To
8.625	24#	00	365

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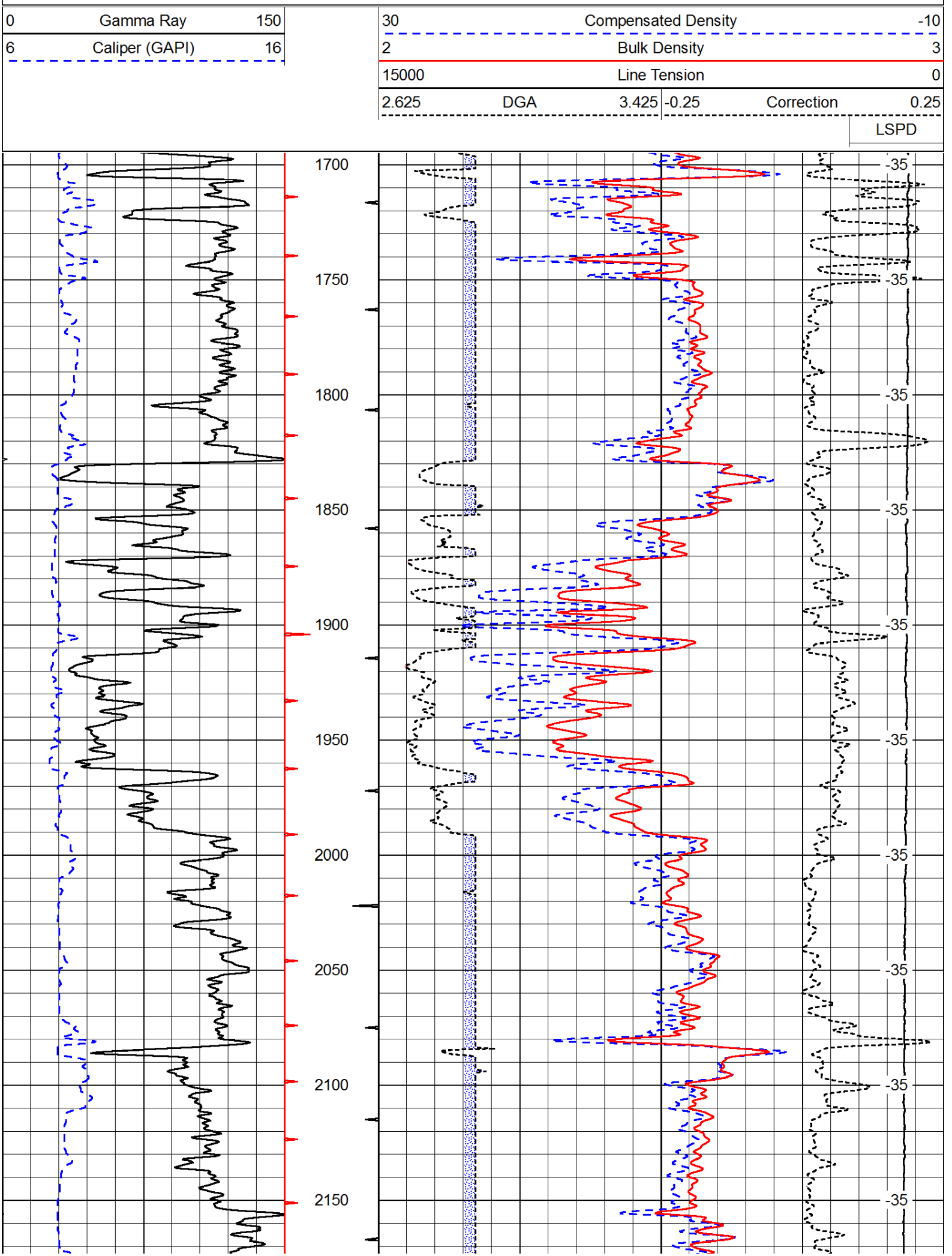
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

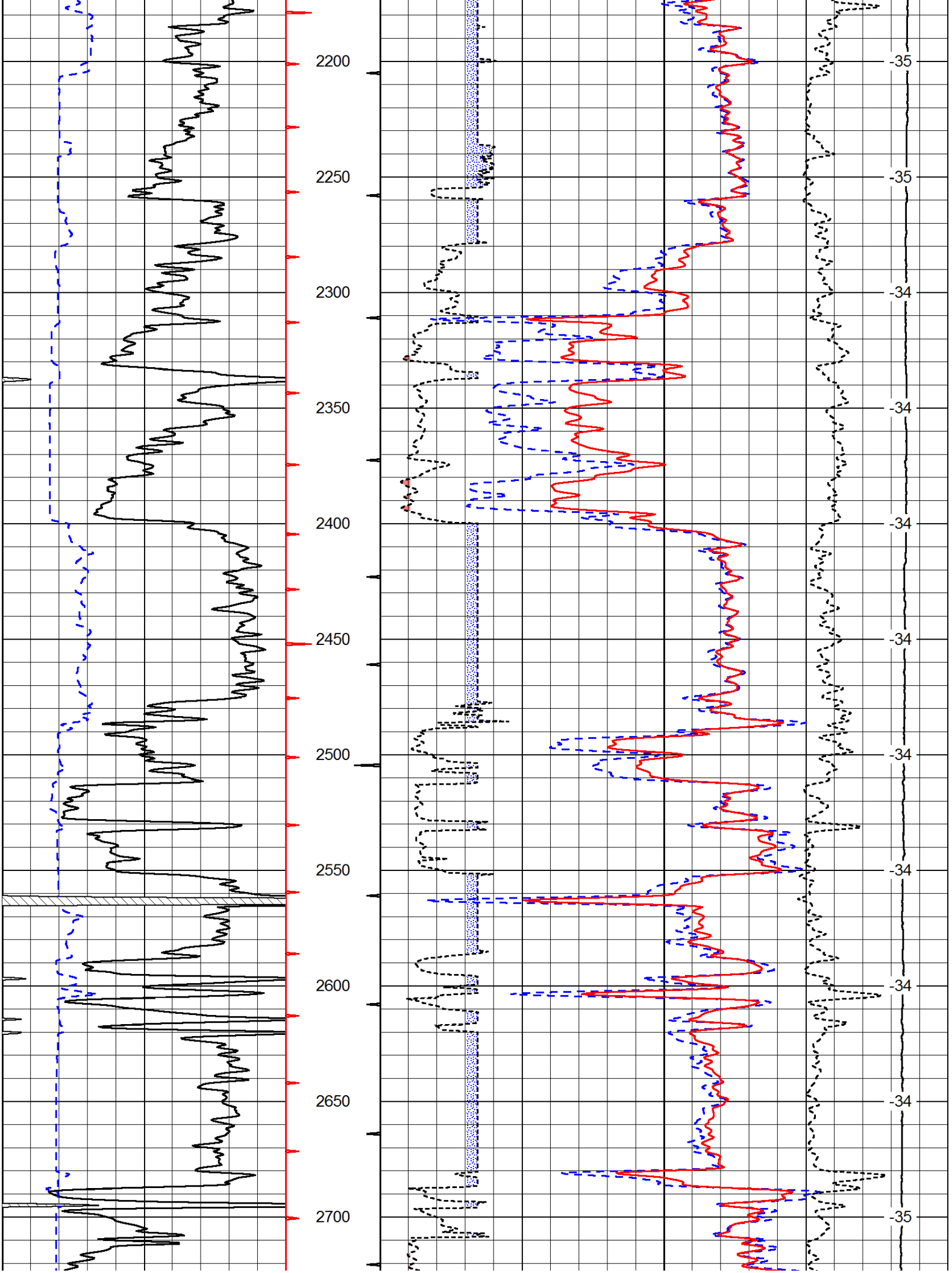
Comments

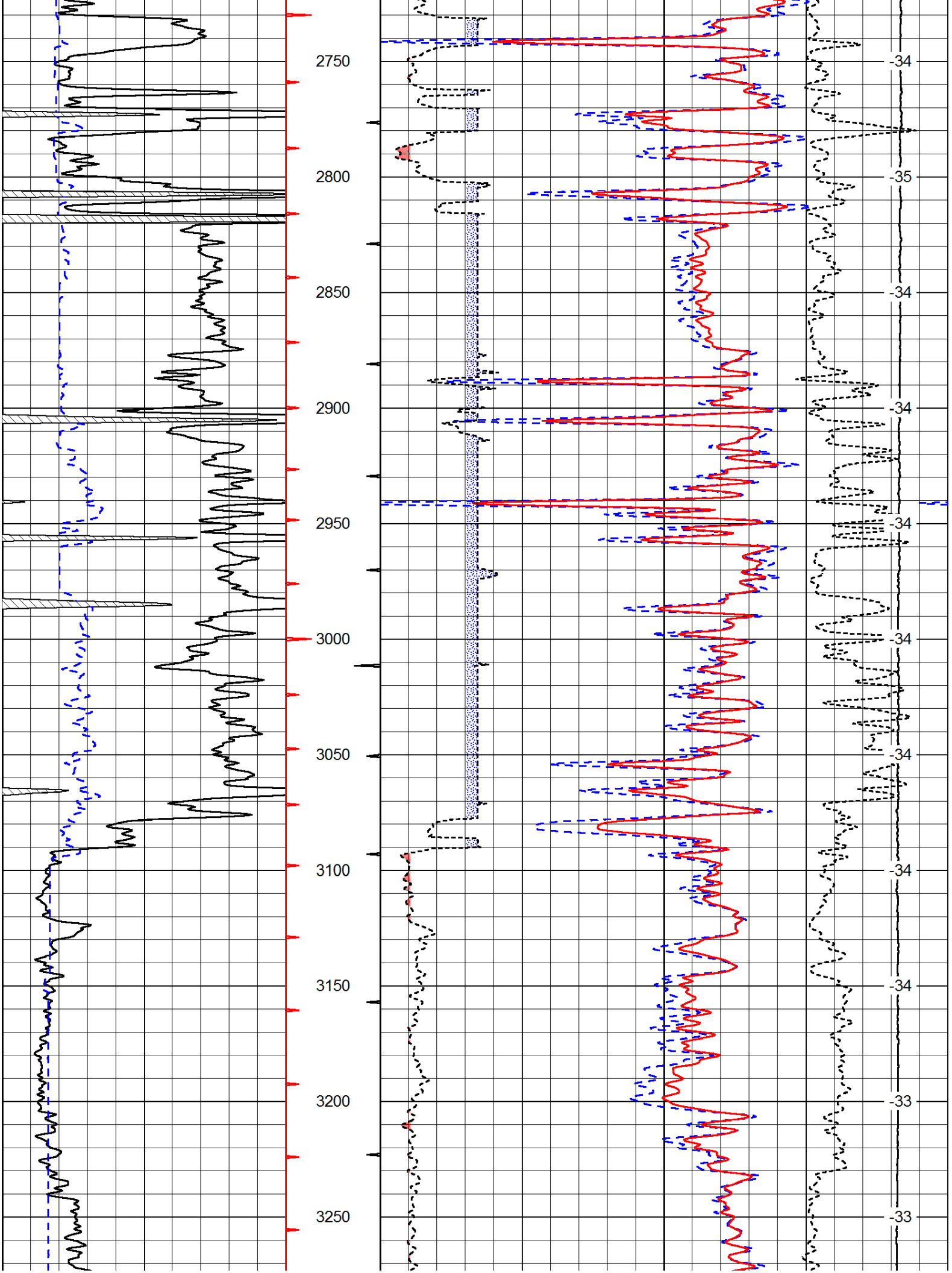
Thank you for using Pioneer Energy Services
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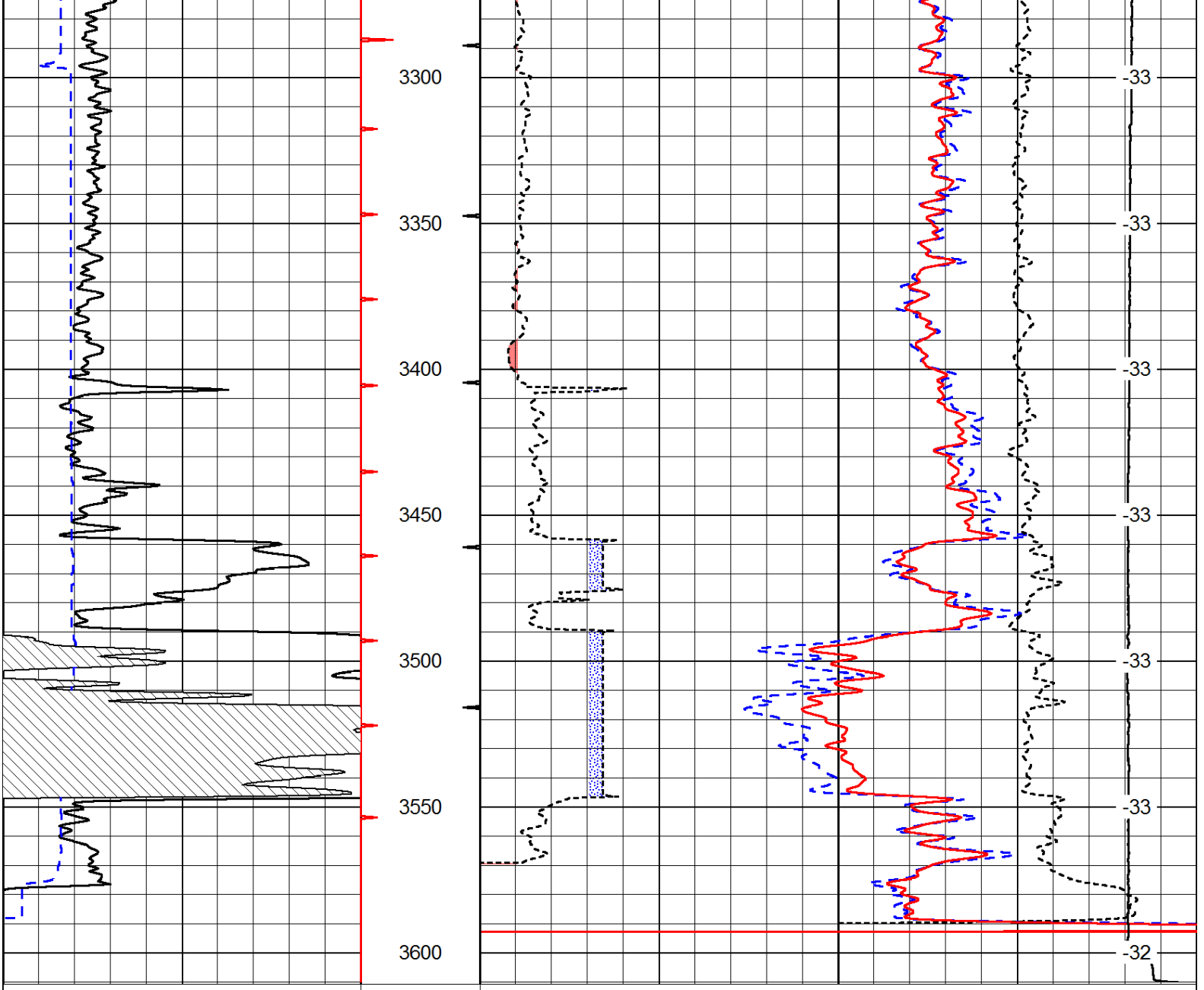
Winfield Kansas
E to 151 Rd, 5 S, 3 E, 1 S, 1/2 E Into

Database File:	c:\warrior\data\toto energy_baker #19-1\toto_baker_19_1hd.db
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Presentation Format:	cdl
Dataset Creation:	Wed Oct 16 10:19:07 2013
Charted by:	Depth in Feet scaled 1:600

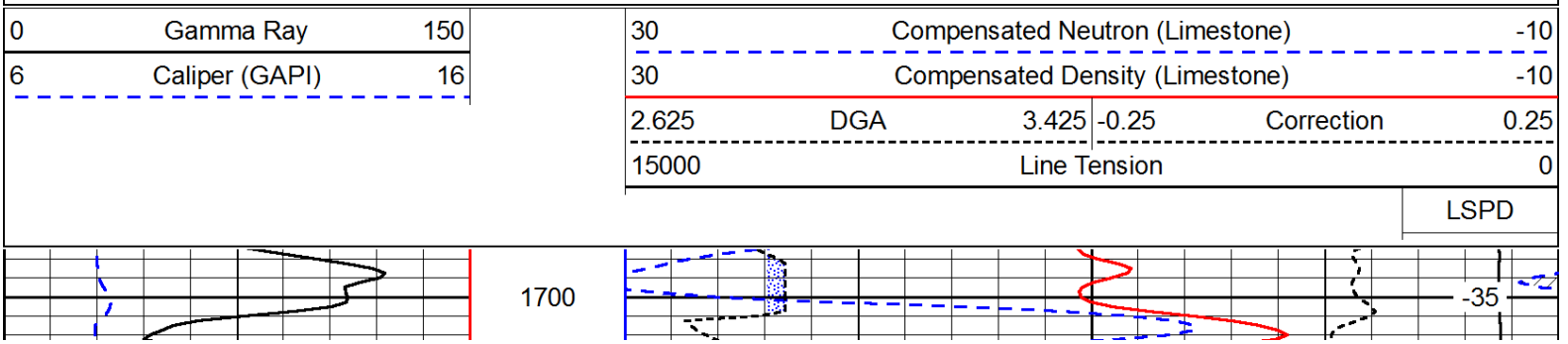

0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compensated Density -10
2 Bulk Density 3
15000 Line Tension 0
2.625 DGA 3.425
-0.25 Correction 0.25
LSPD
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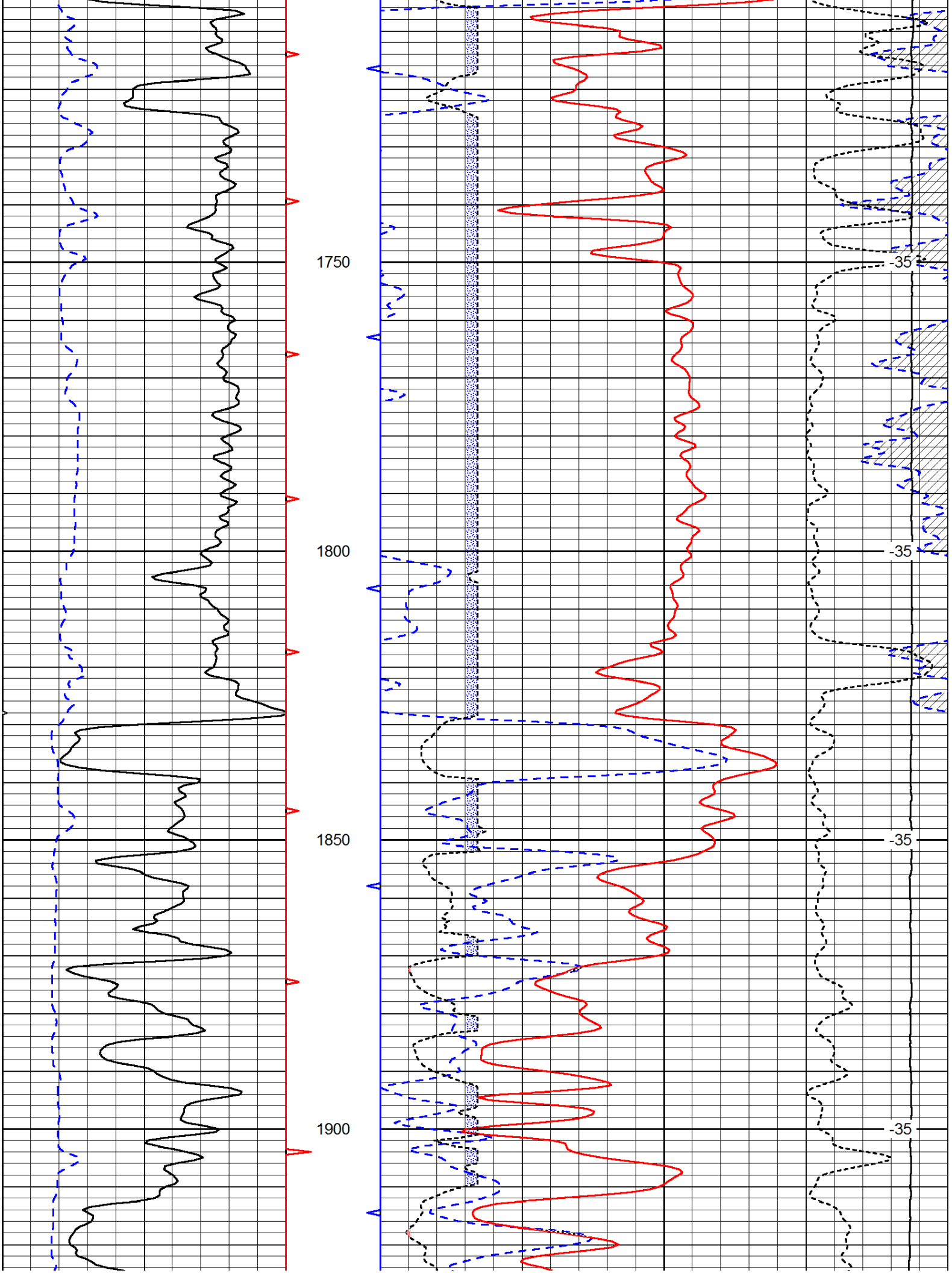

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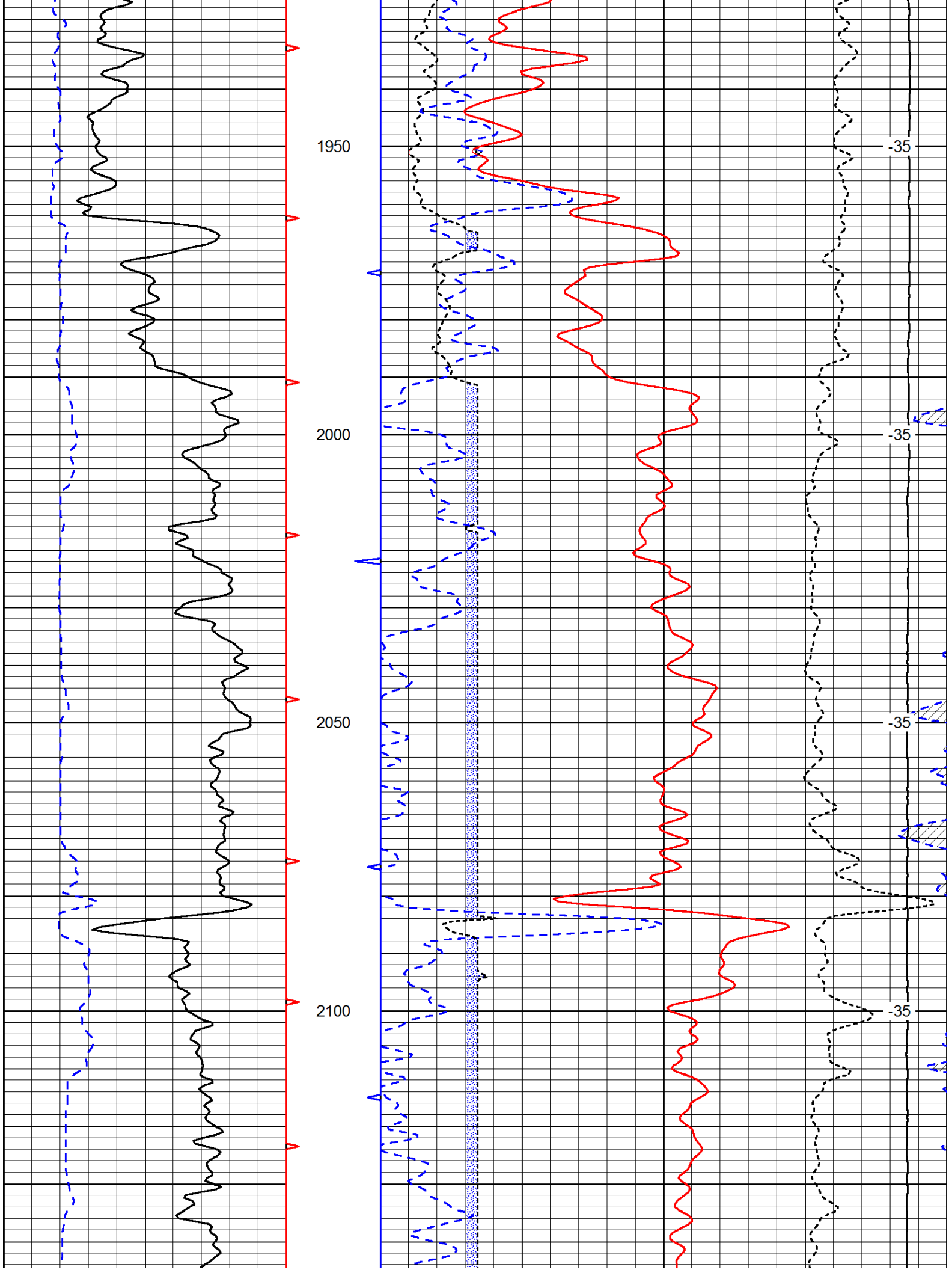

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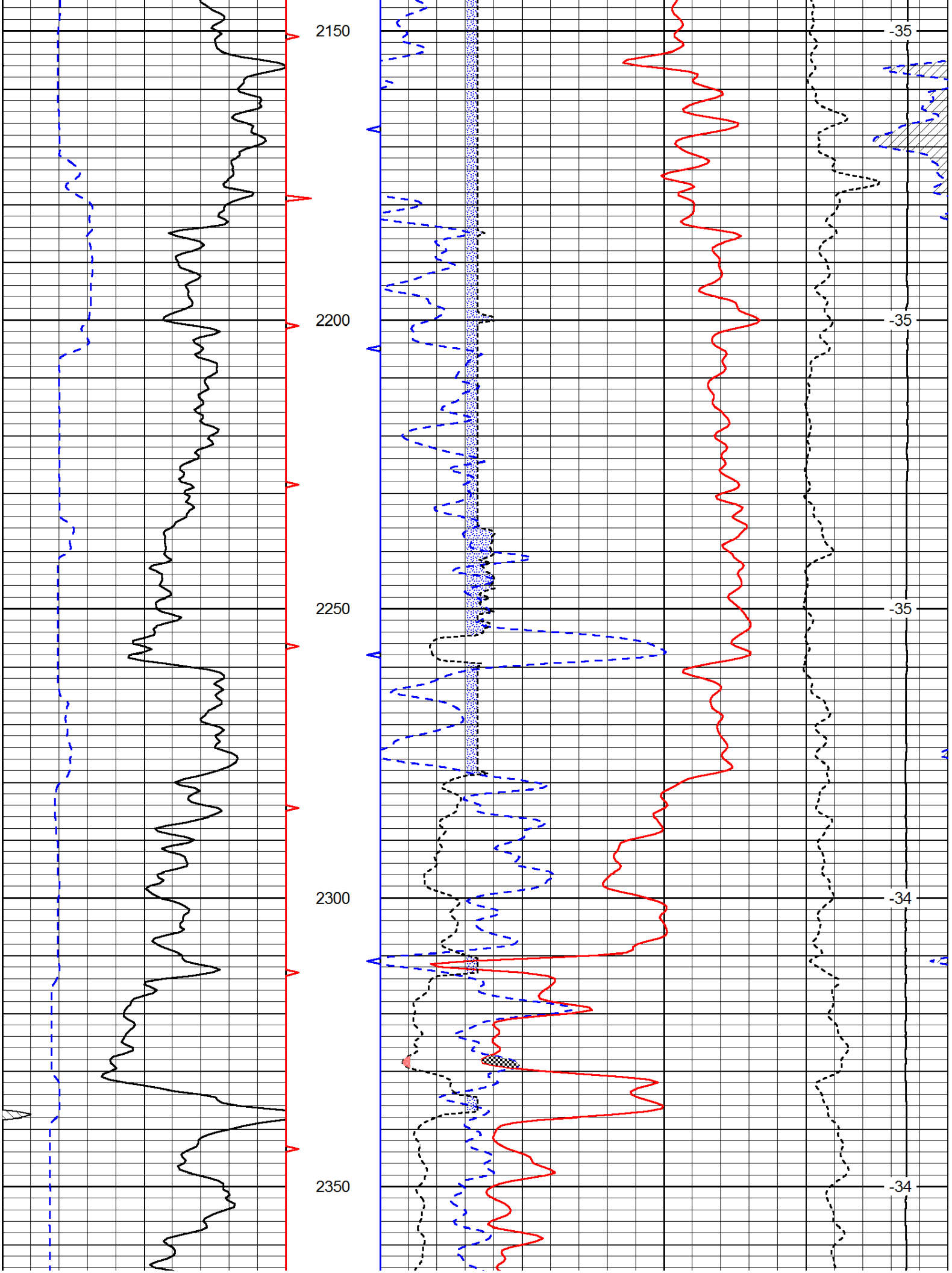


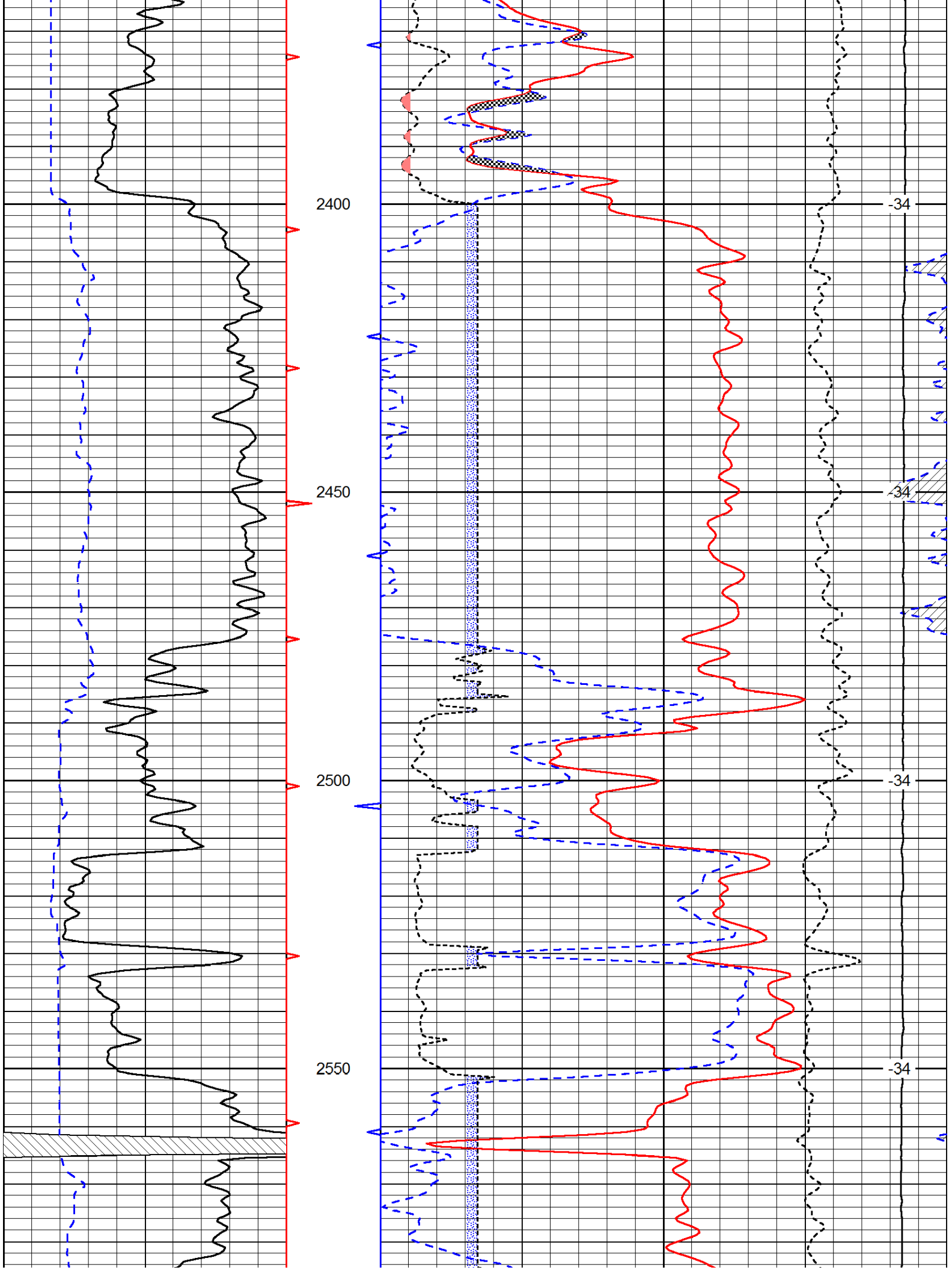
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Charted by: Depth in Feet scaled 1:240

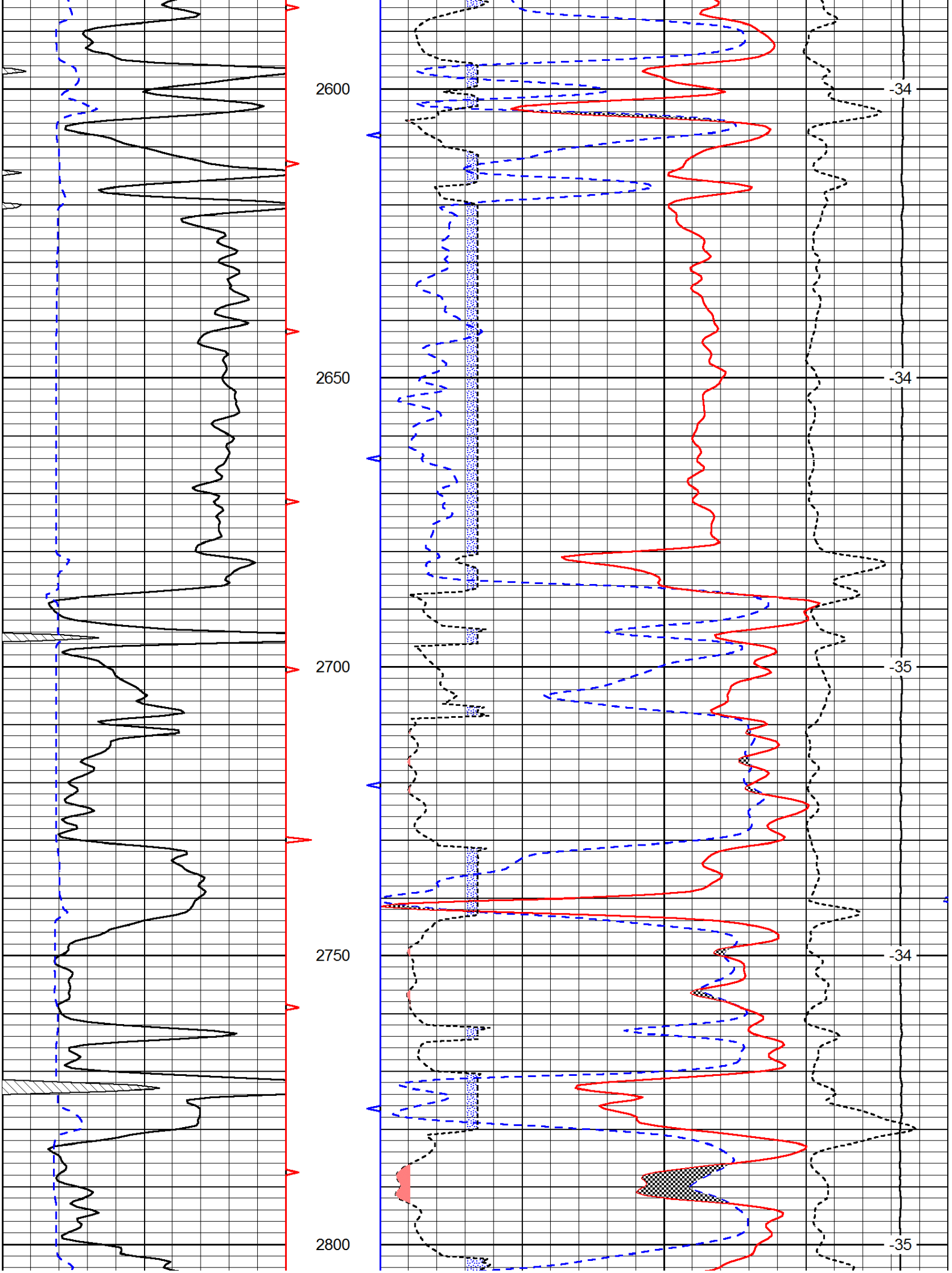


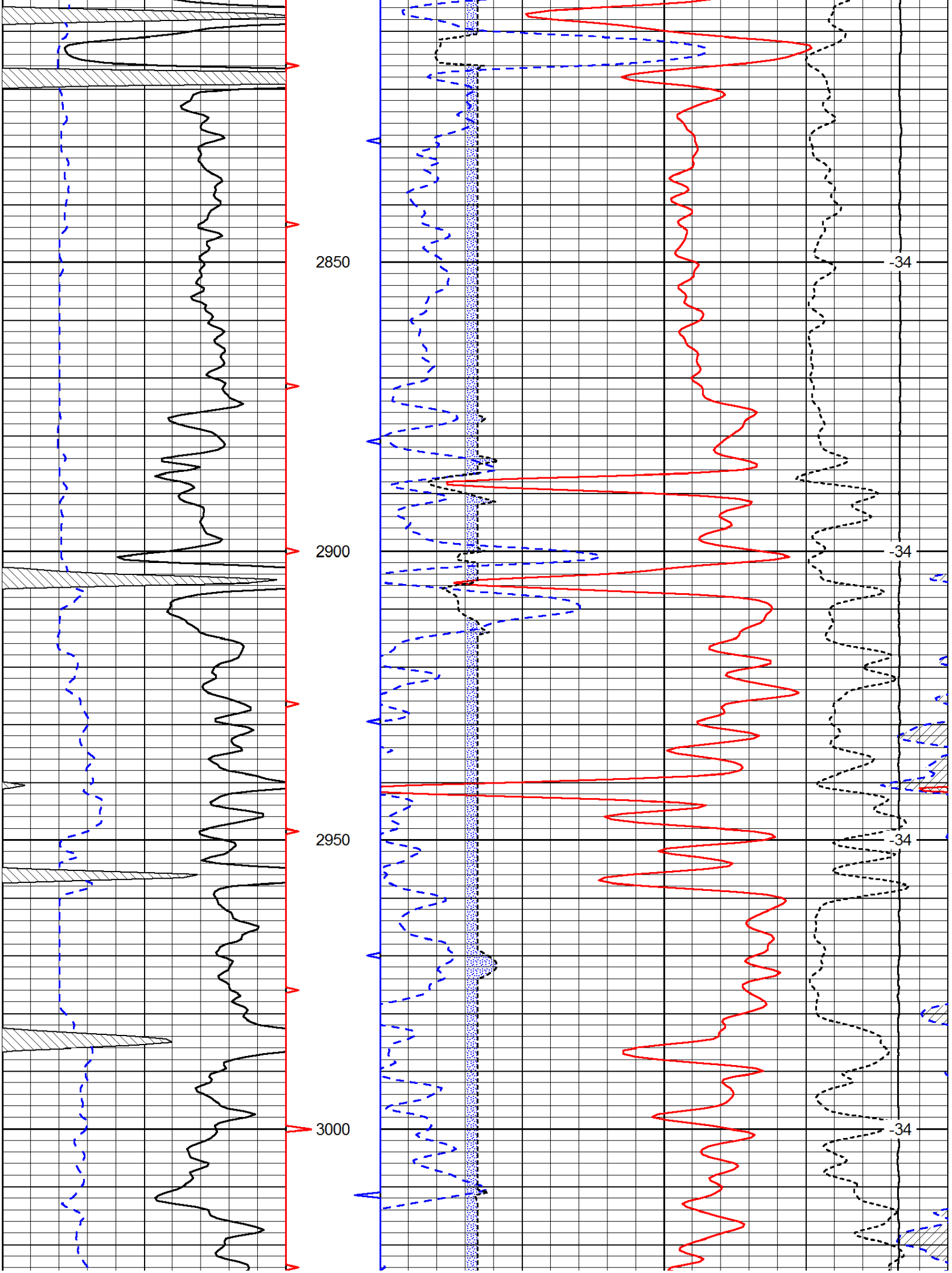

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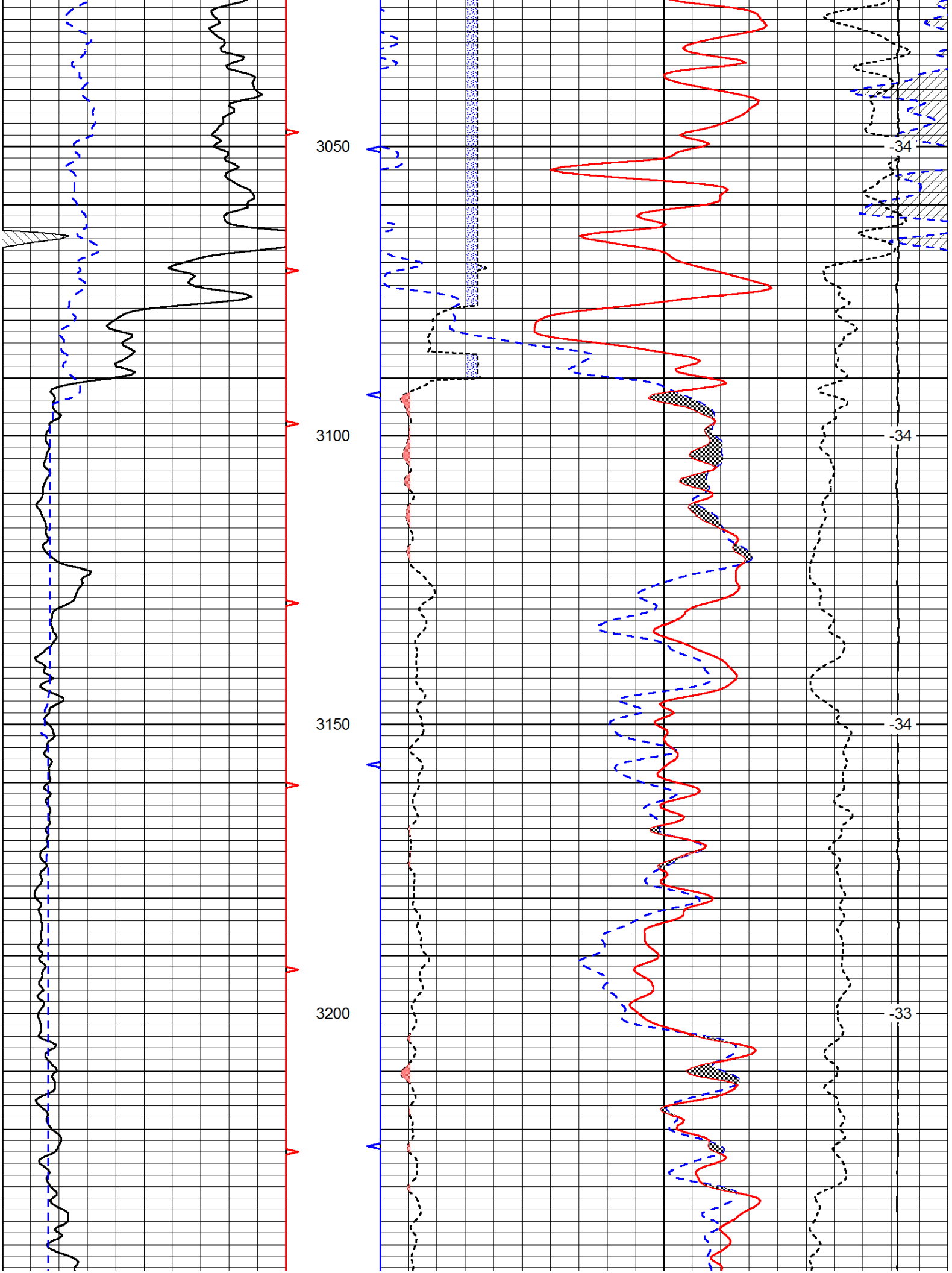

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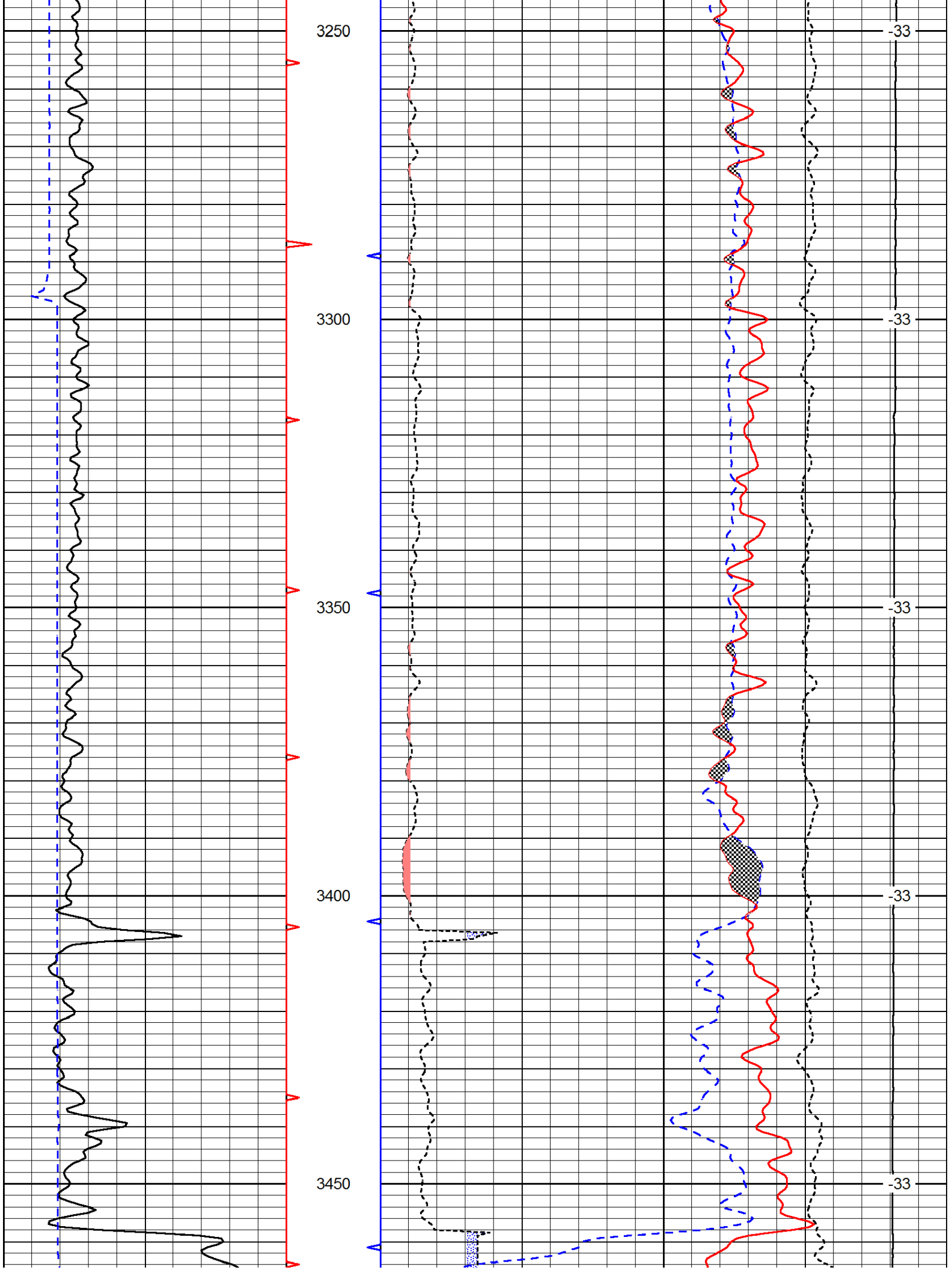

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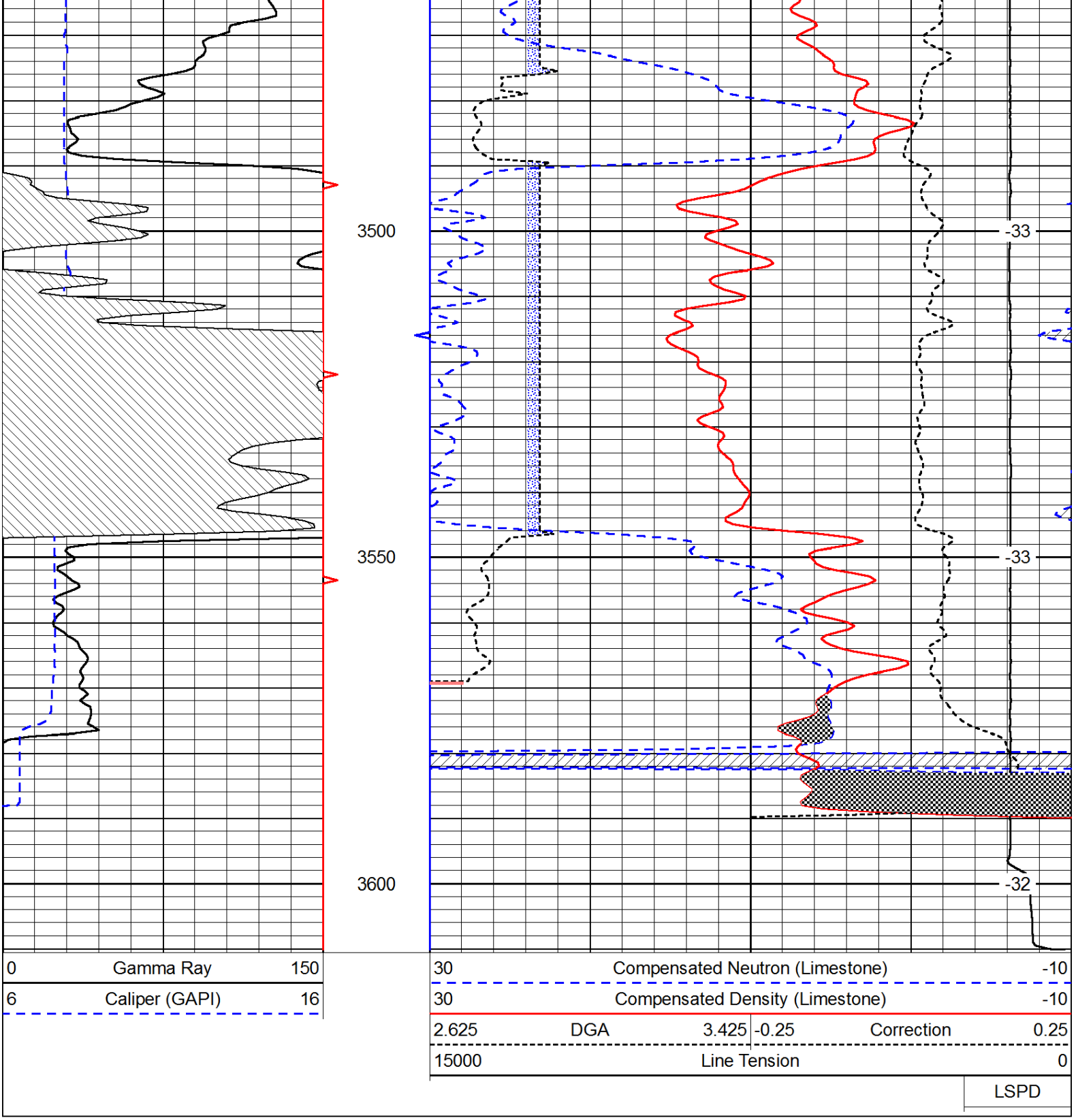

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3450
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-33



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