PIONEER

Pioneer Energy Services

Dual Induction Log

Company	Toto Energy, LLC
Well	Acoustic Guitar #16-1
Field	Wil
County	Edwards State Kansas
API No.	15-047-21641-00-00

Location: W2 W2 E2 SE
1320' FSL / 1100' FEL
Sec: 16 Twp: 25S Rge: 16W

Other Services: CNL / CDL, MEL

Elevation: K.B. 2082, D.F. , G.L. 2072

Permanent Datum: Ground Level — Elevation 2072
Log Measured From: Kelly Bushing — 10 Ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing

Date	10/24/2014		
Run Number	One		
Depth Driller	4820		
Depth Logger	4818		
Bottom Logged Interval	4817		
Top Log Interval	350		
Casing Driller	8.625 @ 359		
Casing Logger	354		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	6700		
Density / Viscosity	9.1 | 48		
pH / Fluid Loss	7.5 | 11.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.48 @ 60		
Rmf @ Meas. Temp	0.36 @ 60		
Rmc @ Meas. Temp	0.65 @ 60		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.23 @ 124		
Operating Rig Time	4 Hours		
Max. Rec. Temp. F	124		
Equipment Number	10		
Location	Hays		
Recorded By	R. Barnhart		
Witnessed By	Sonja McDanel		

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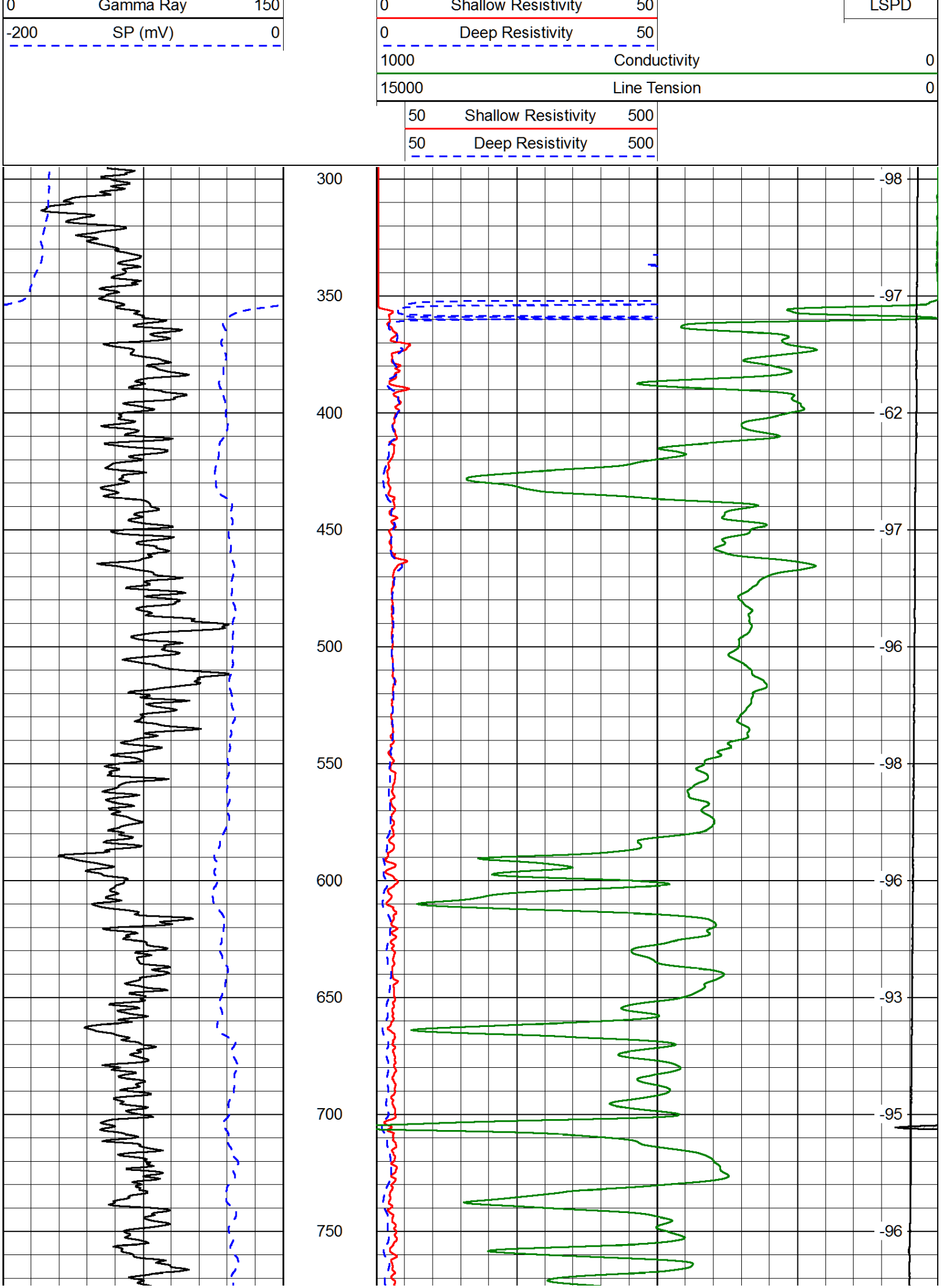
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Log-Tech, Inc.
(785) 625-3858

Belpre, KS:
5S, 1E, N into

Database File:	toto_acouhd.db
Dataset Pathname:	dil/totmain
Presentation Format:	dil2in
Dataset Creation:	Fri Oct 24 11:51:18 2014
Charted by:	Depth in Feet scaled 1:600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-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
LSPD
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
300
350
400
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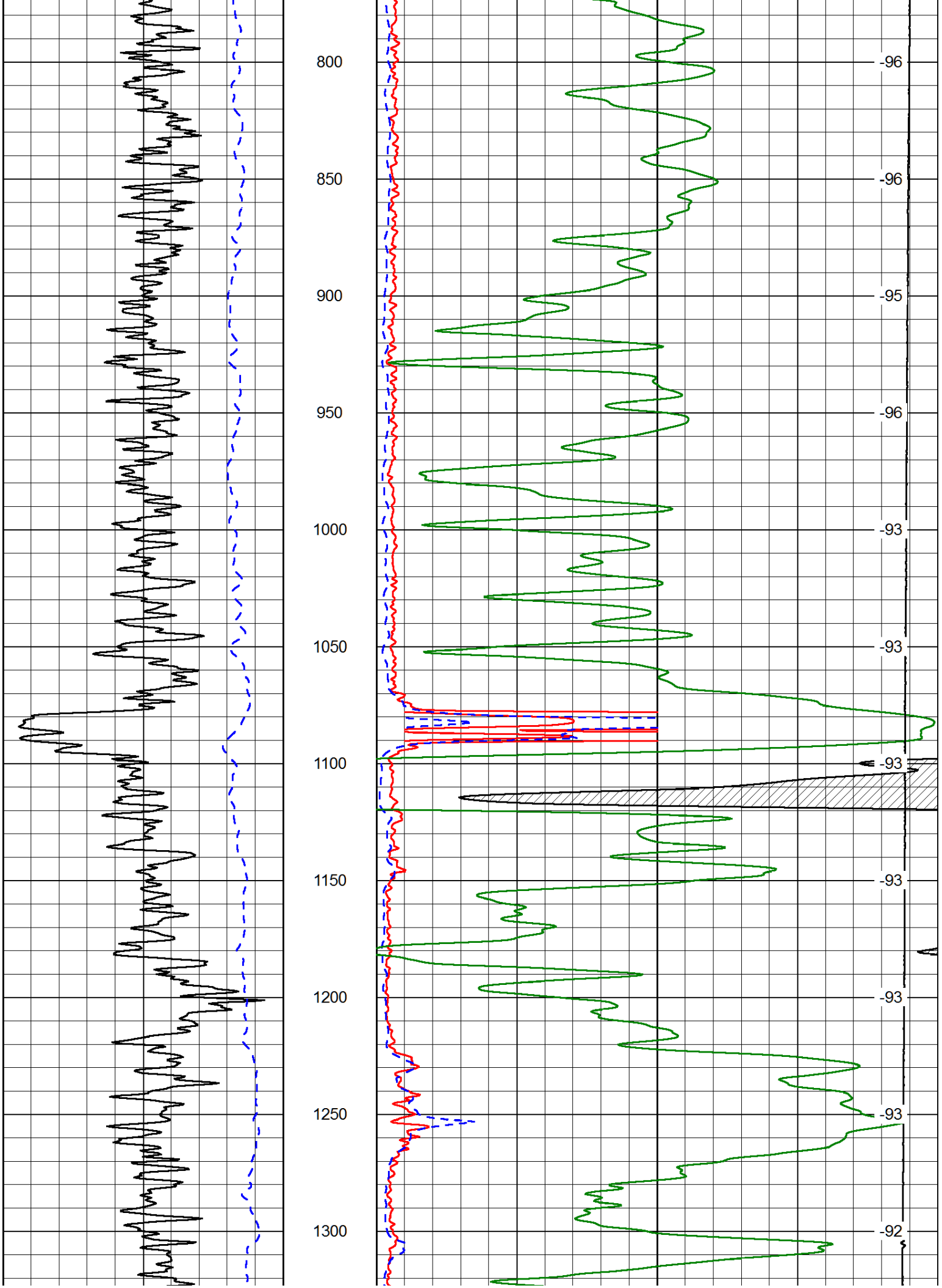
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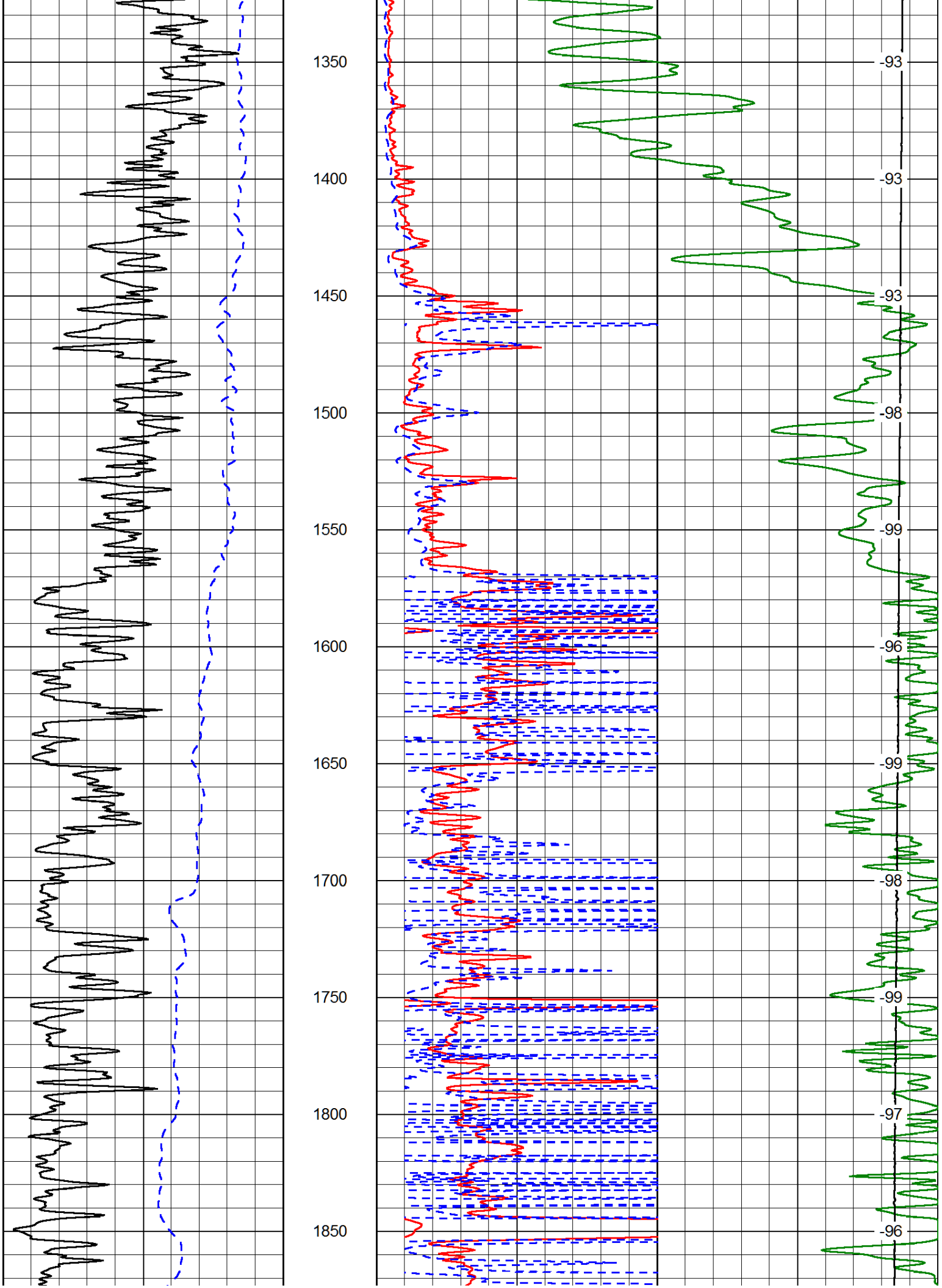
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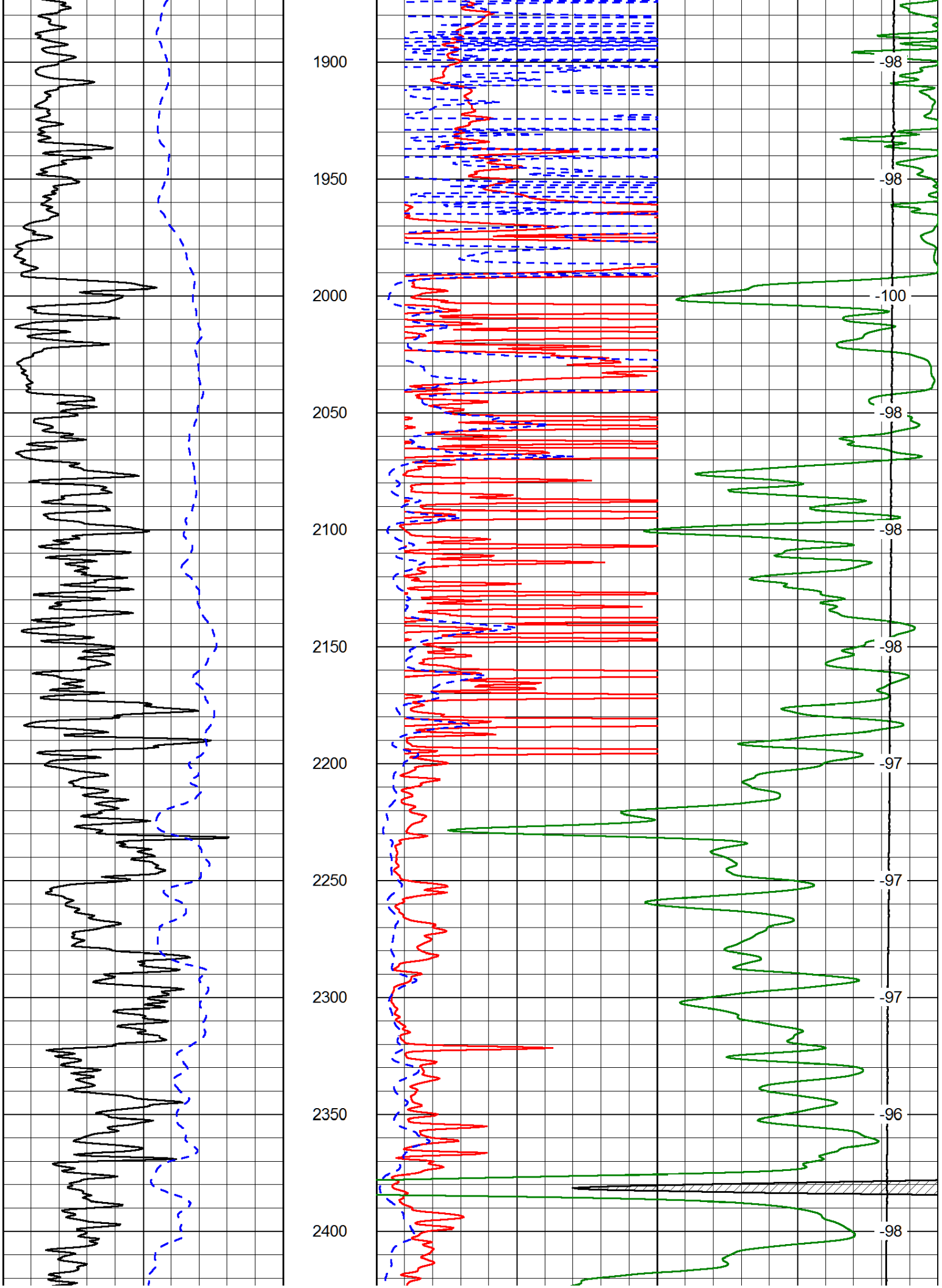
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2100
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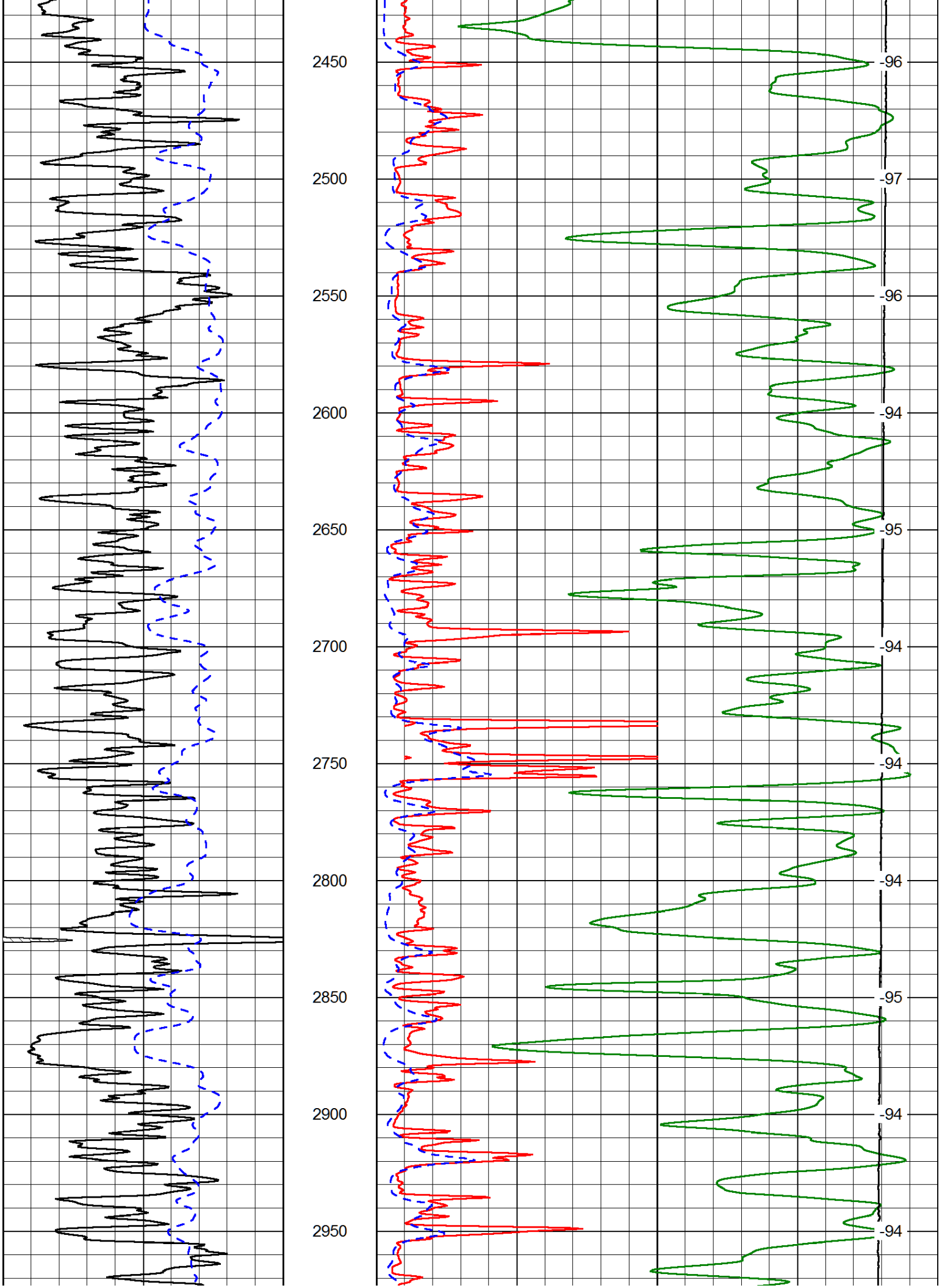
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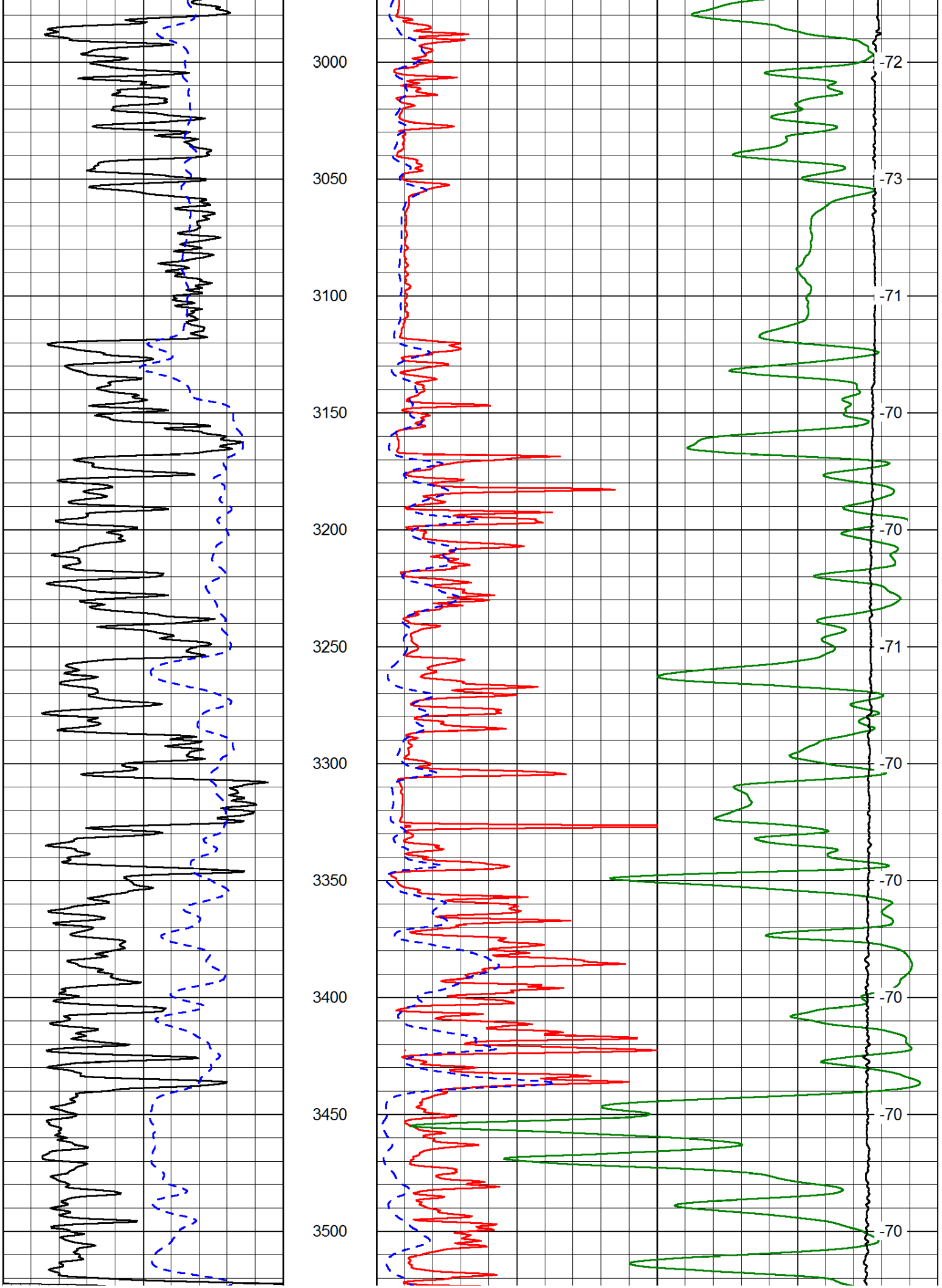
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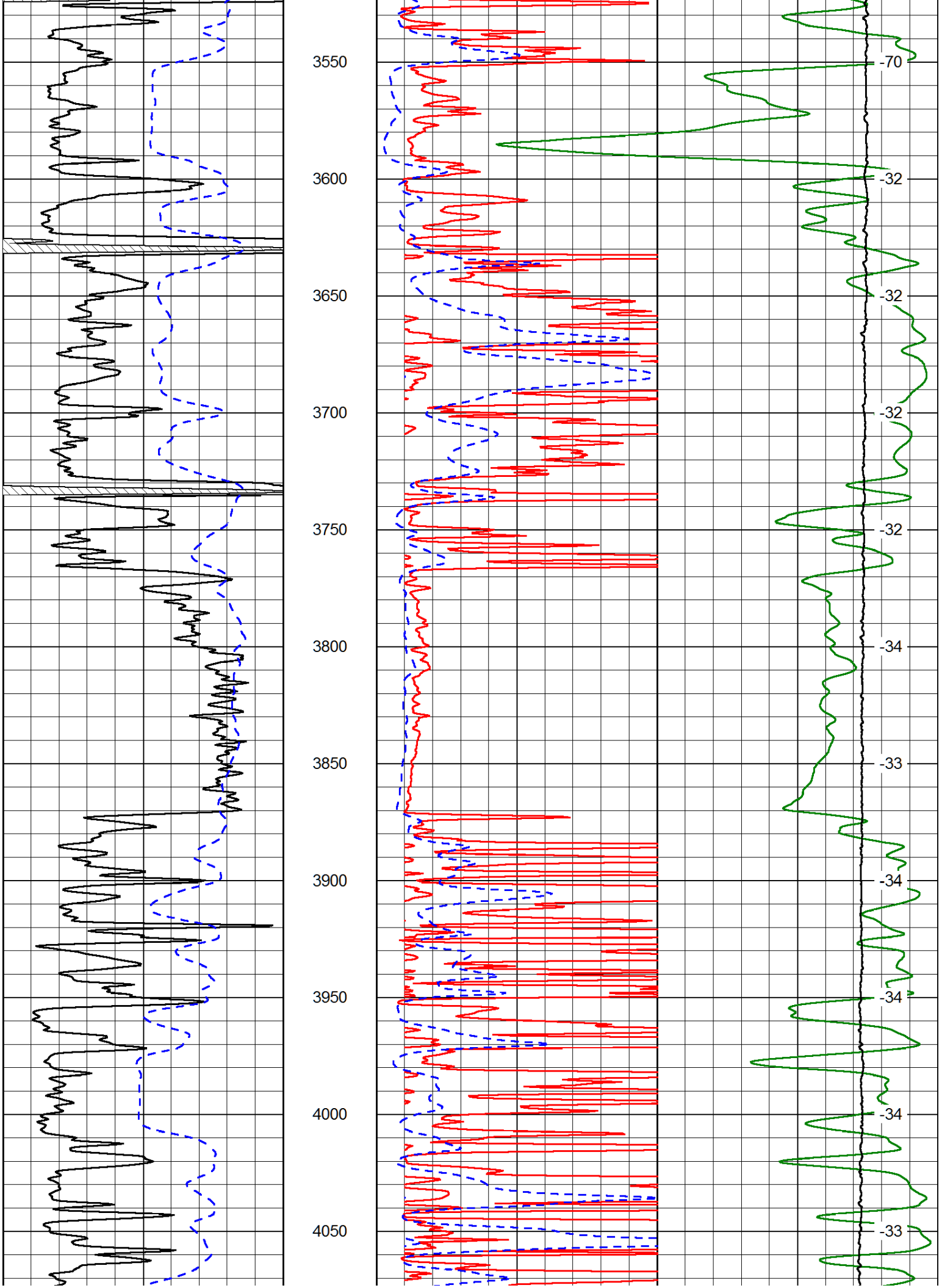
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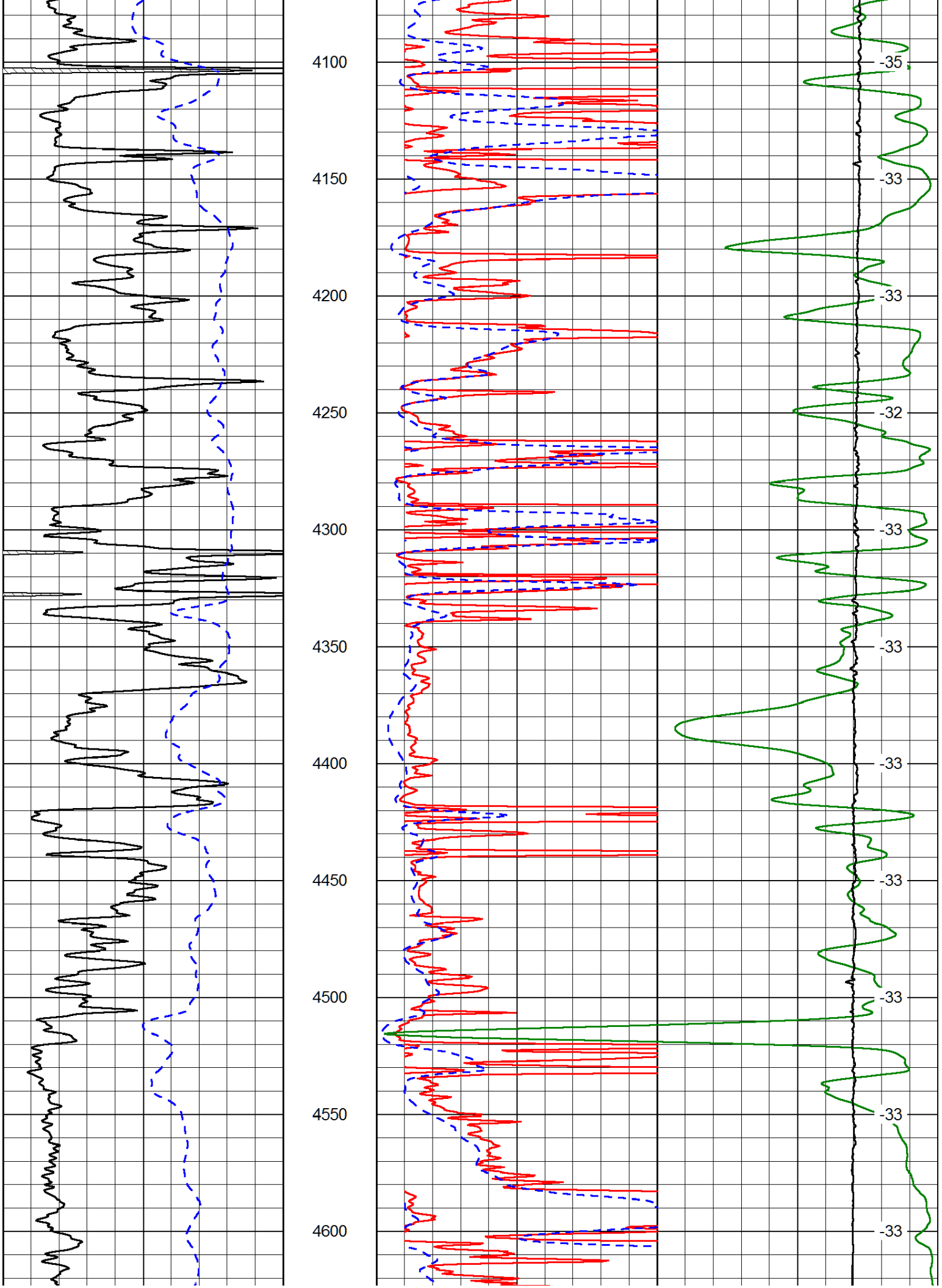
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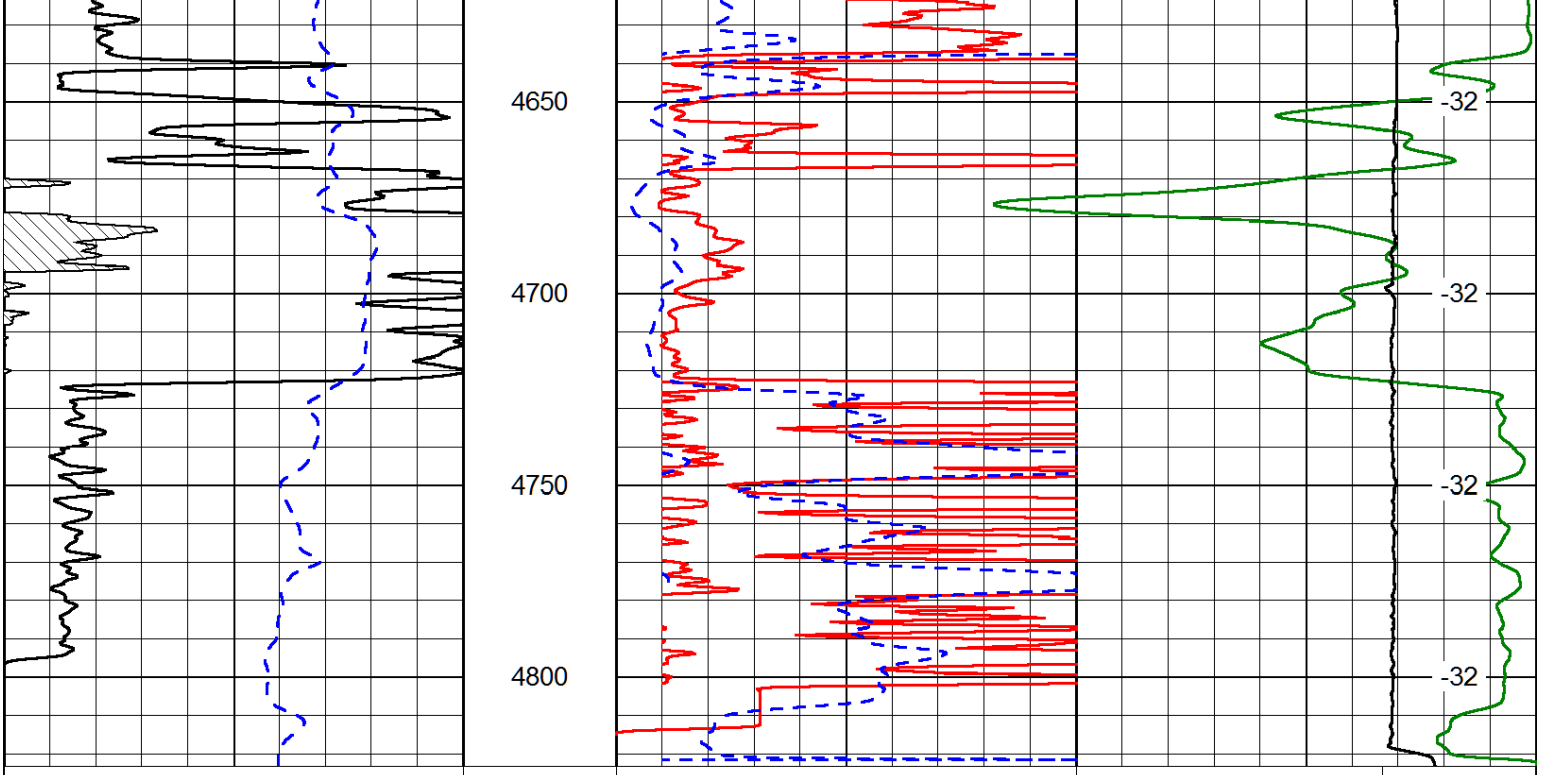

Database File: toto_acouhd.db
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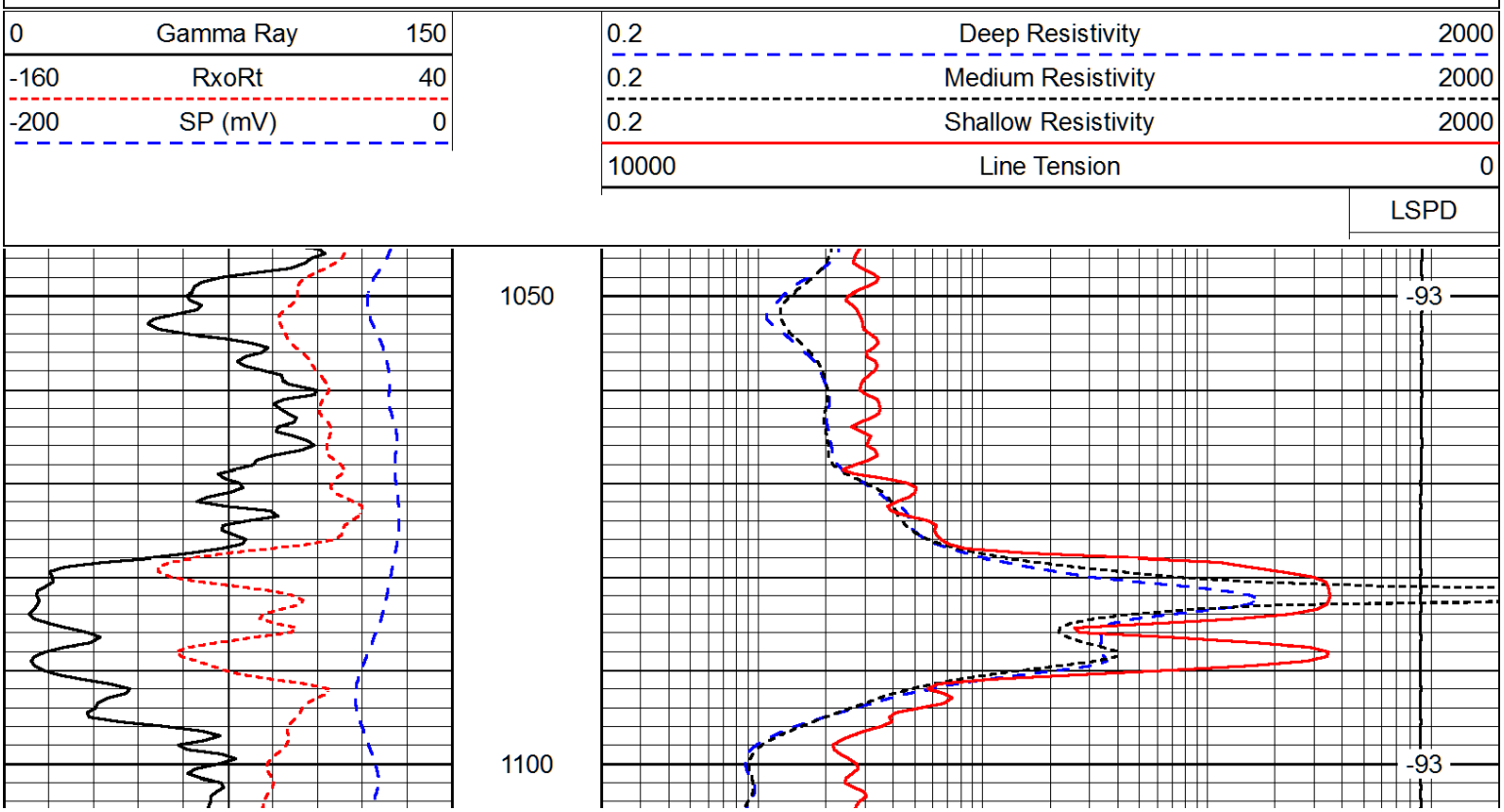
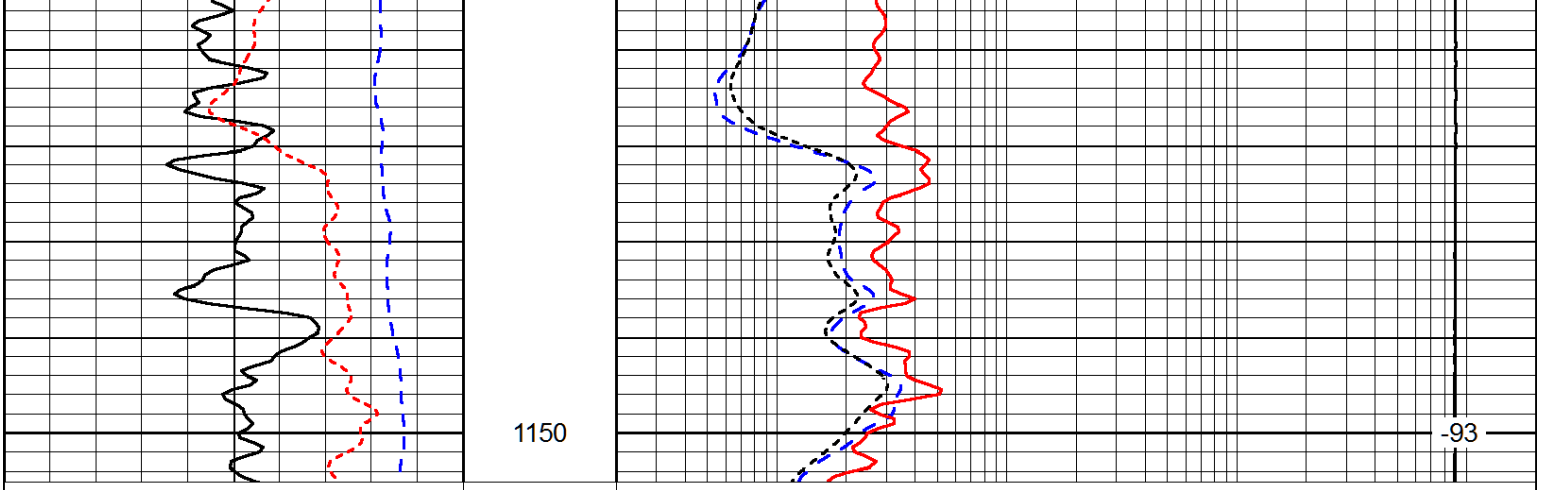
Presentation Format: dil
Dataset Creation: Fri Oct 24 11:51:18 2014
Charted by: Depth in Feet scaled 1:240





0	Gamma Ray	150
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

Database File:	toto_acouhd.db
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Presentation Format:	dil
Dataset Creation:	Fri Oct 24 11:51:18 2014
Charted by:	Depth in Feet scaled 1:240

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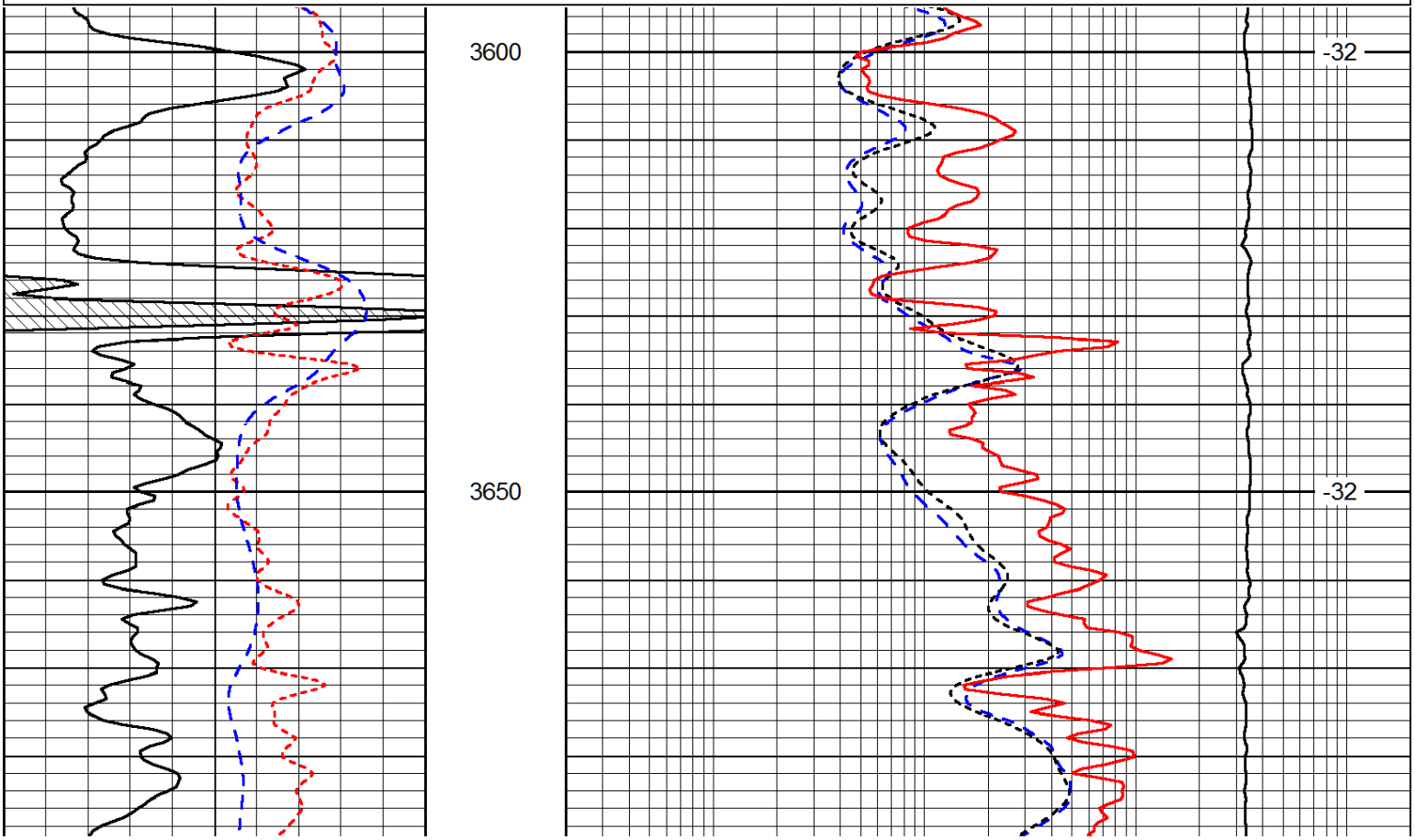
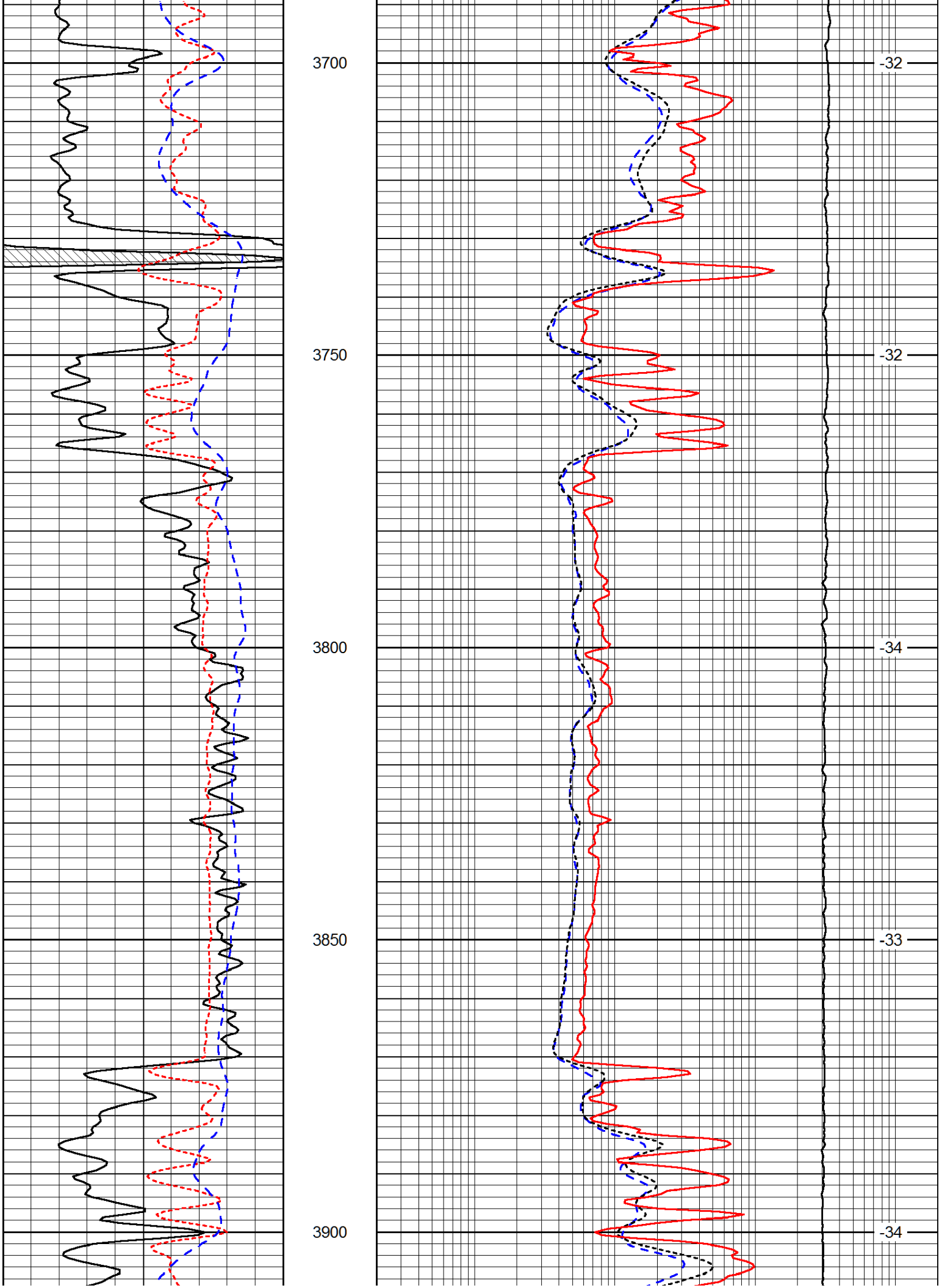
-160	RxoRt	40
-200	SP (mV)	0

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

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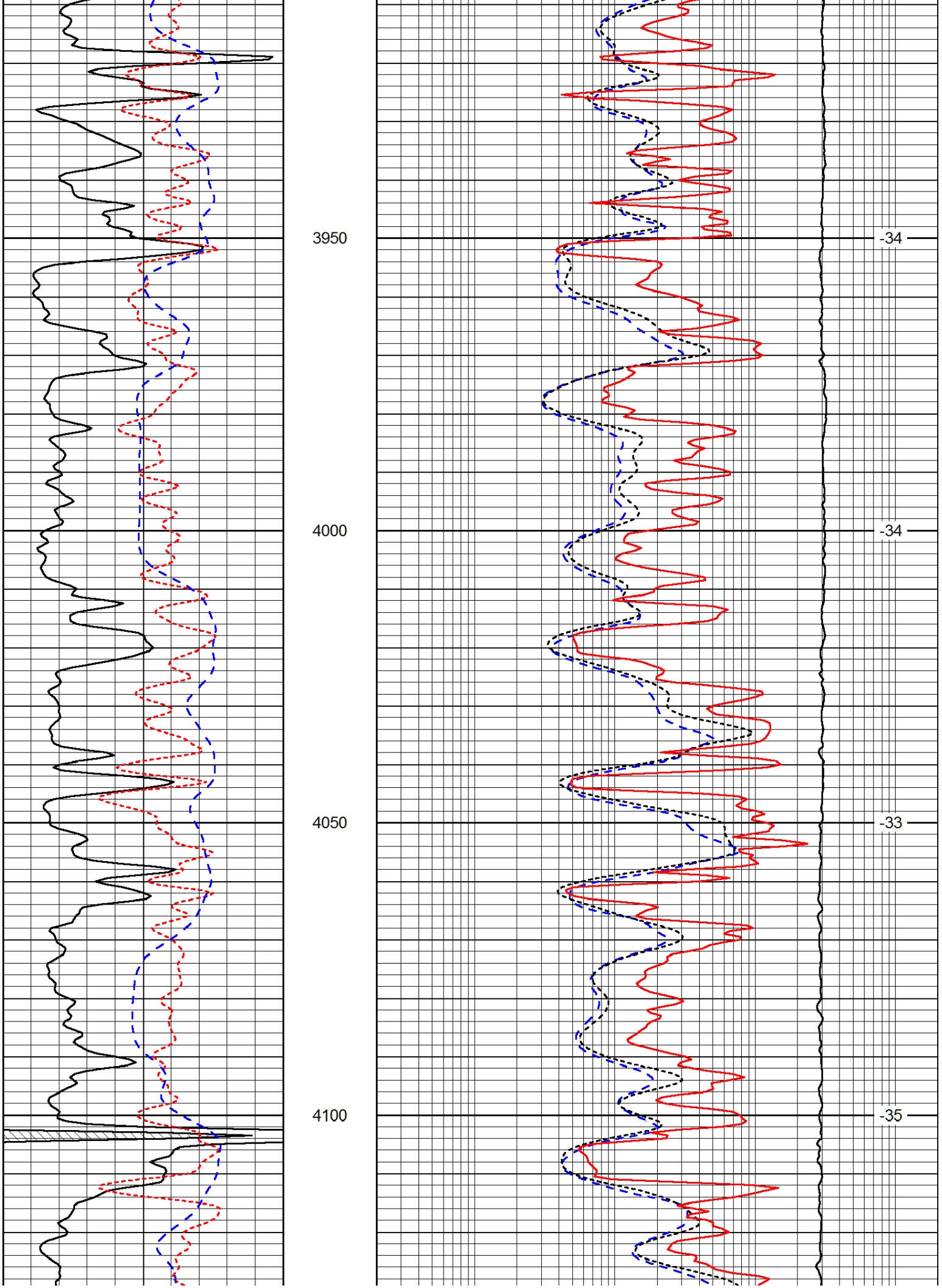
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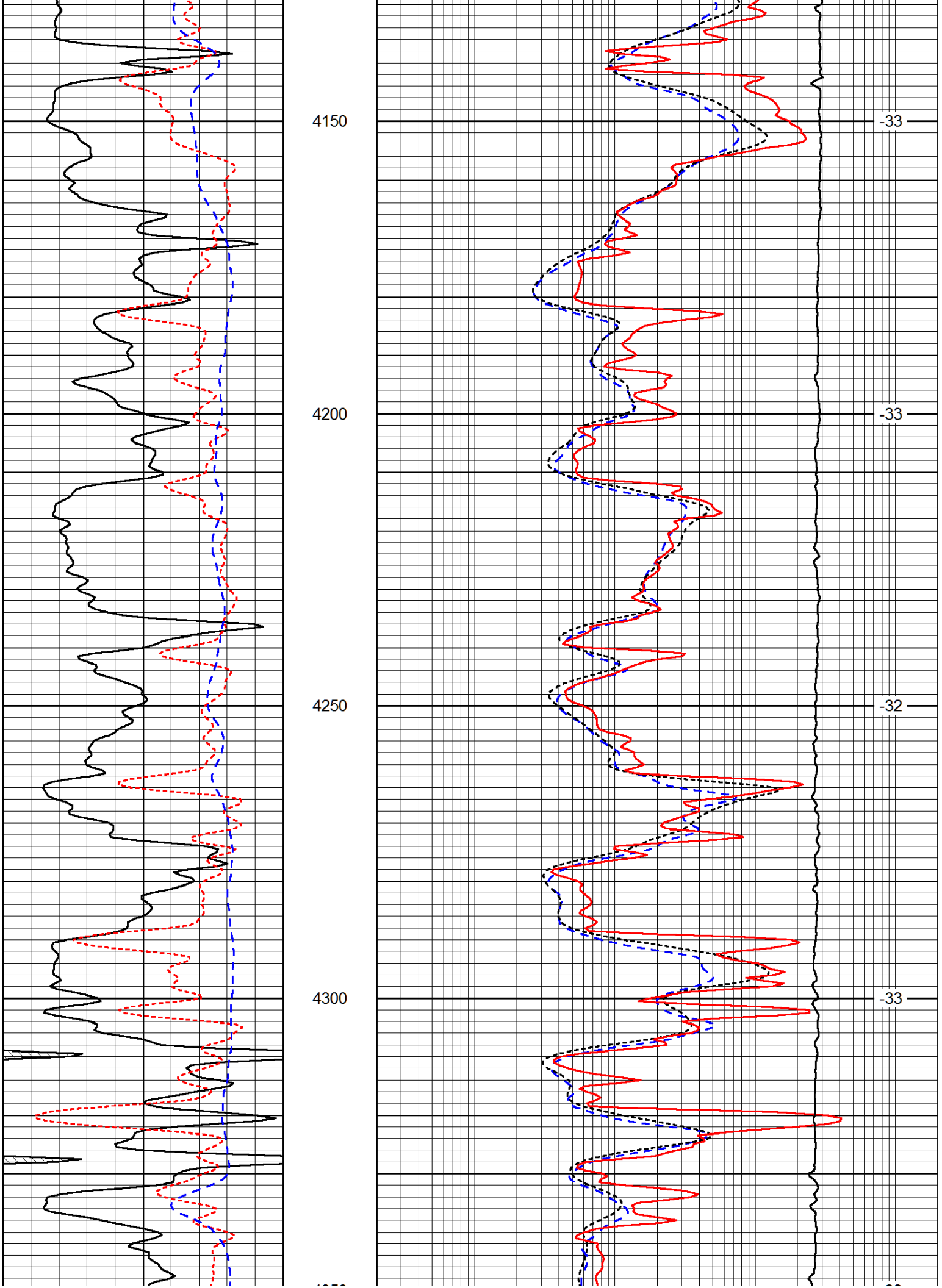
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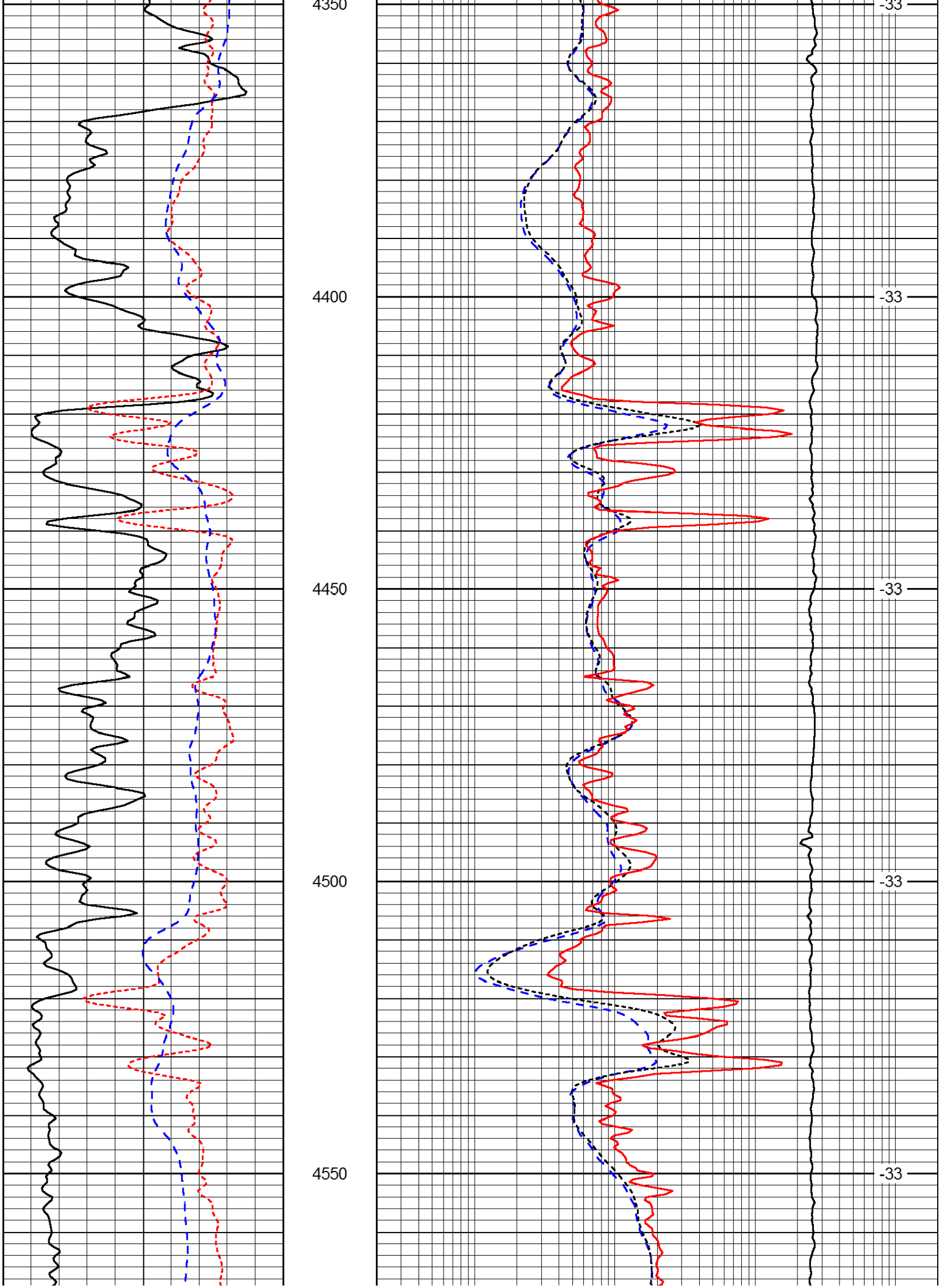
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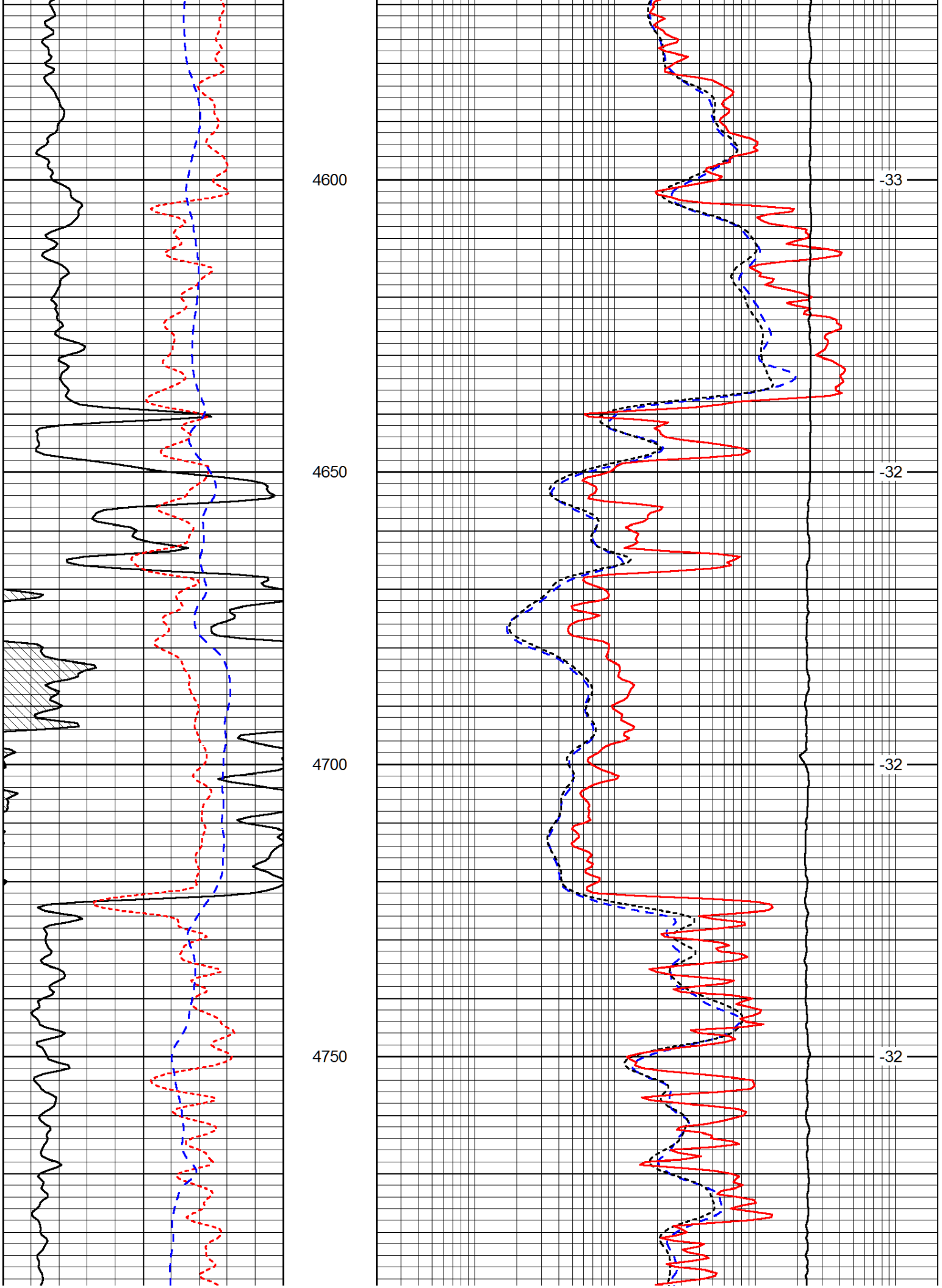
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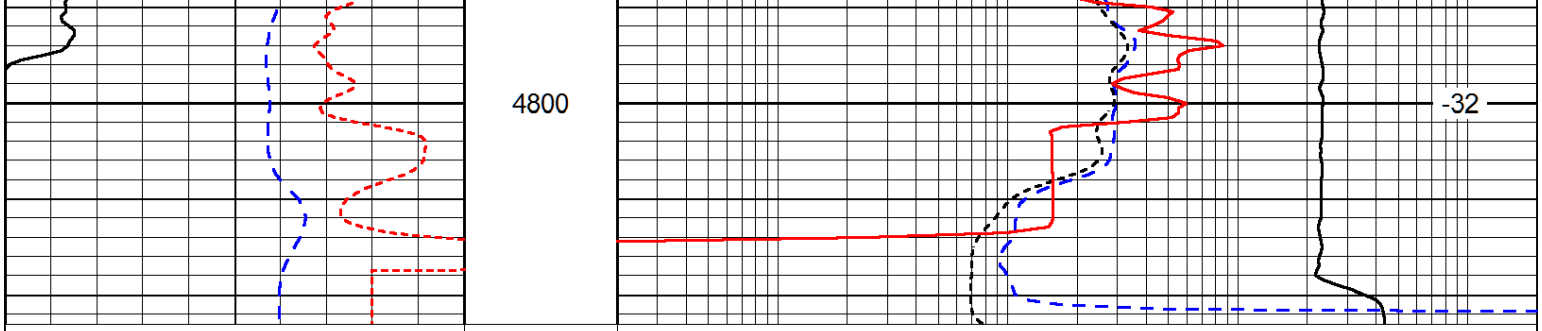

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