PIONEER

Pioneer Energy Services

Borehole Compensated Sonic Log

API No. 15-007-24,029-00-00

Company Toto Energy, LLC

Well Packard #24-1

Field Nurse

County Barber State Kansas

Location 1536' FNL & 625' FWL

Sec: 24 Twp: 31S Rge: 13W

Permanent Datum Ground Level Elevation 1625

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

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 1636
D.F.
G.L. 1625

Date	6/26/2013
Run Number	Two
Type Log	BHC Sonic
Depth Driller	4750
Depth Logger	4753
Bottom Logged Interval	4742
Top Logged Interval	400
Type Fluid In Hole	Chemical
Salinity, PPM CL	7,000
Density	9.2
Level	Full
Max. Rec. Temp. F	124
Operating Rig Time	5 Hours
Equipment -- Location	17 Hays
Recorded By	C. Desaire
Witnessed By	Terry Madden

Borehole Record

Run No.	Bit	From	To
1	12.25	00	442
2	7.875	442	4750

Casing Record

Size	Wgt.	From	To
8.625	24#	00	442

Sean Deenihan

<<< Fold Here >>>

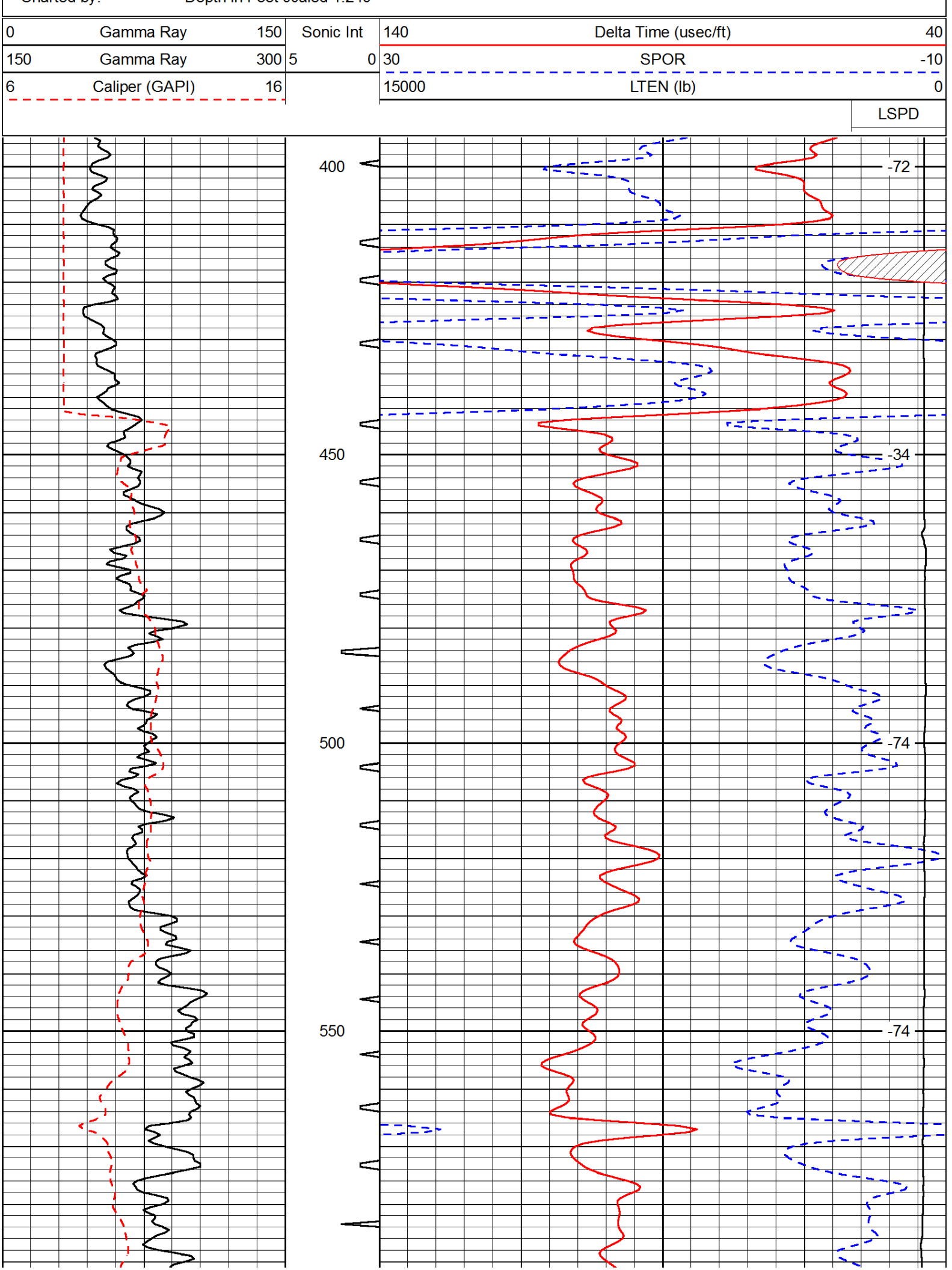
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

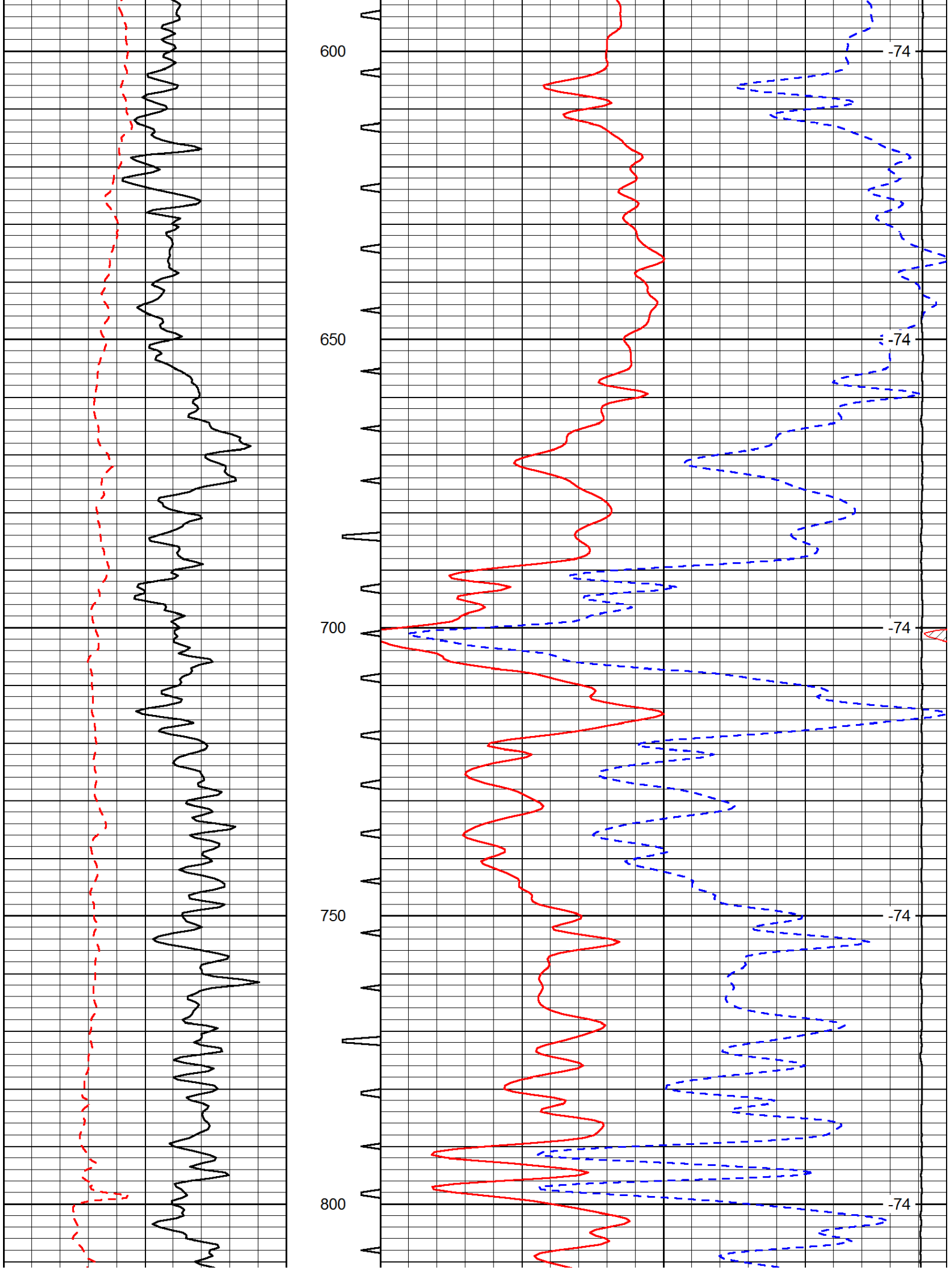
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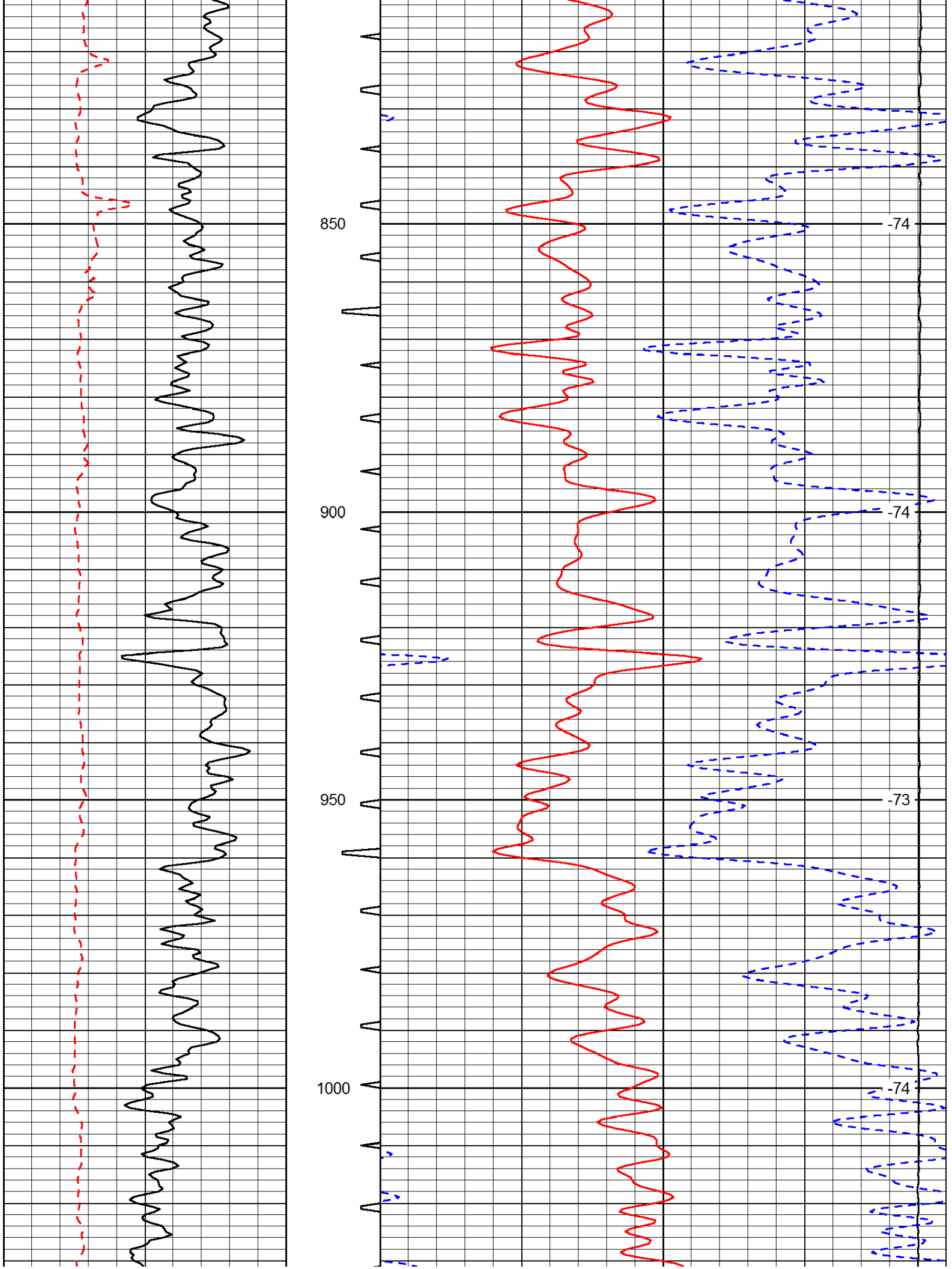
Thank you for using Pioneer Energy Services
www.pioneeres.com
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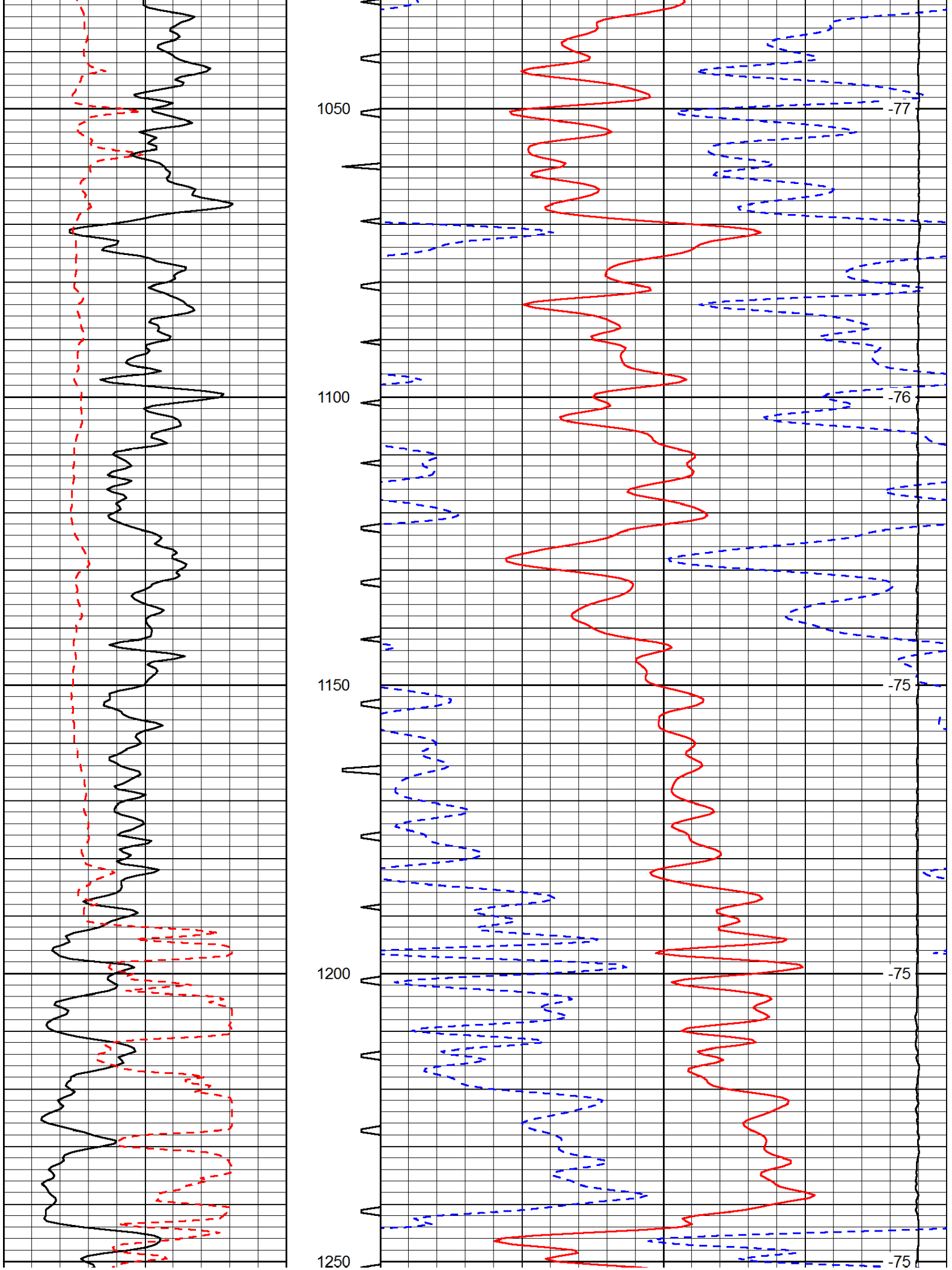
Medicine Lodge KS, 7 1/2 W on River Rd, N Into

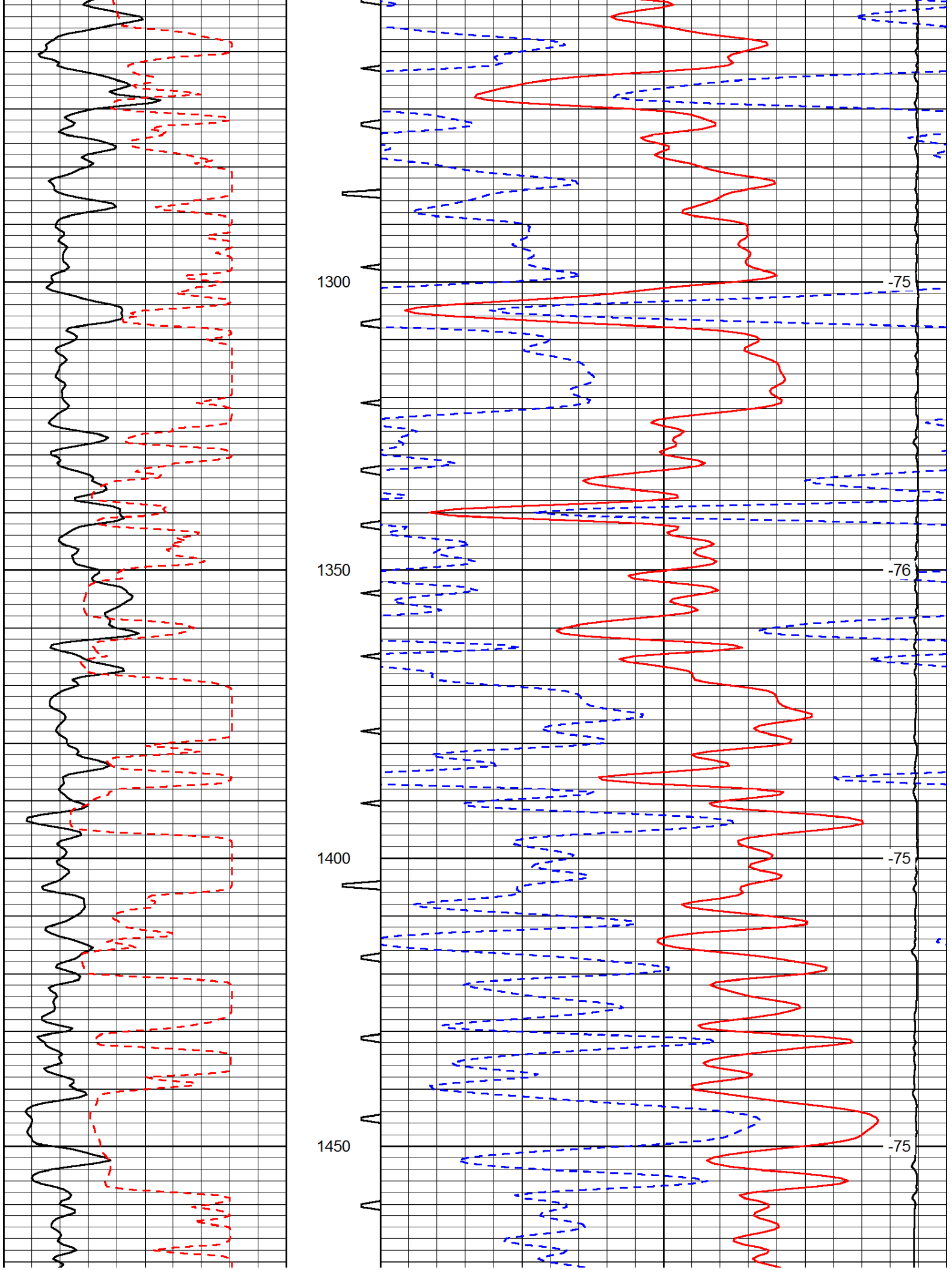
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Charted by:	Depth in Feet scaled 1:240

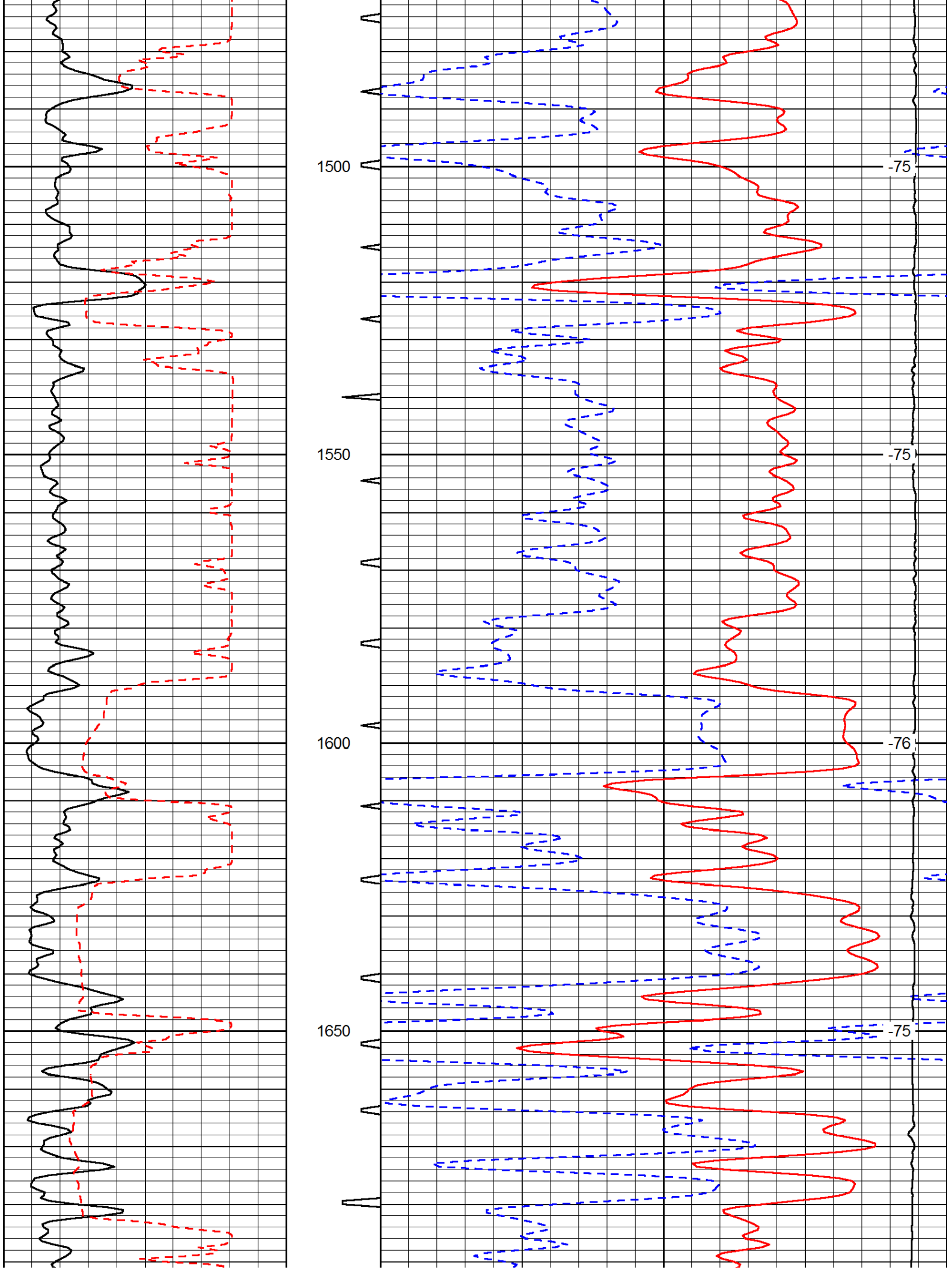

0 Gamma Ray 150
150 Gamma Ray 300
6 Caliper (GAPI) 16
Sonic Int
5 0
140 Delta Time (usec/ft) 40
30 SPOR -10
15000 LTEN (lb) 0
LSPD
400
450
500
550
-72
-34
-74
-74

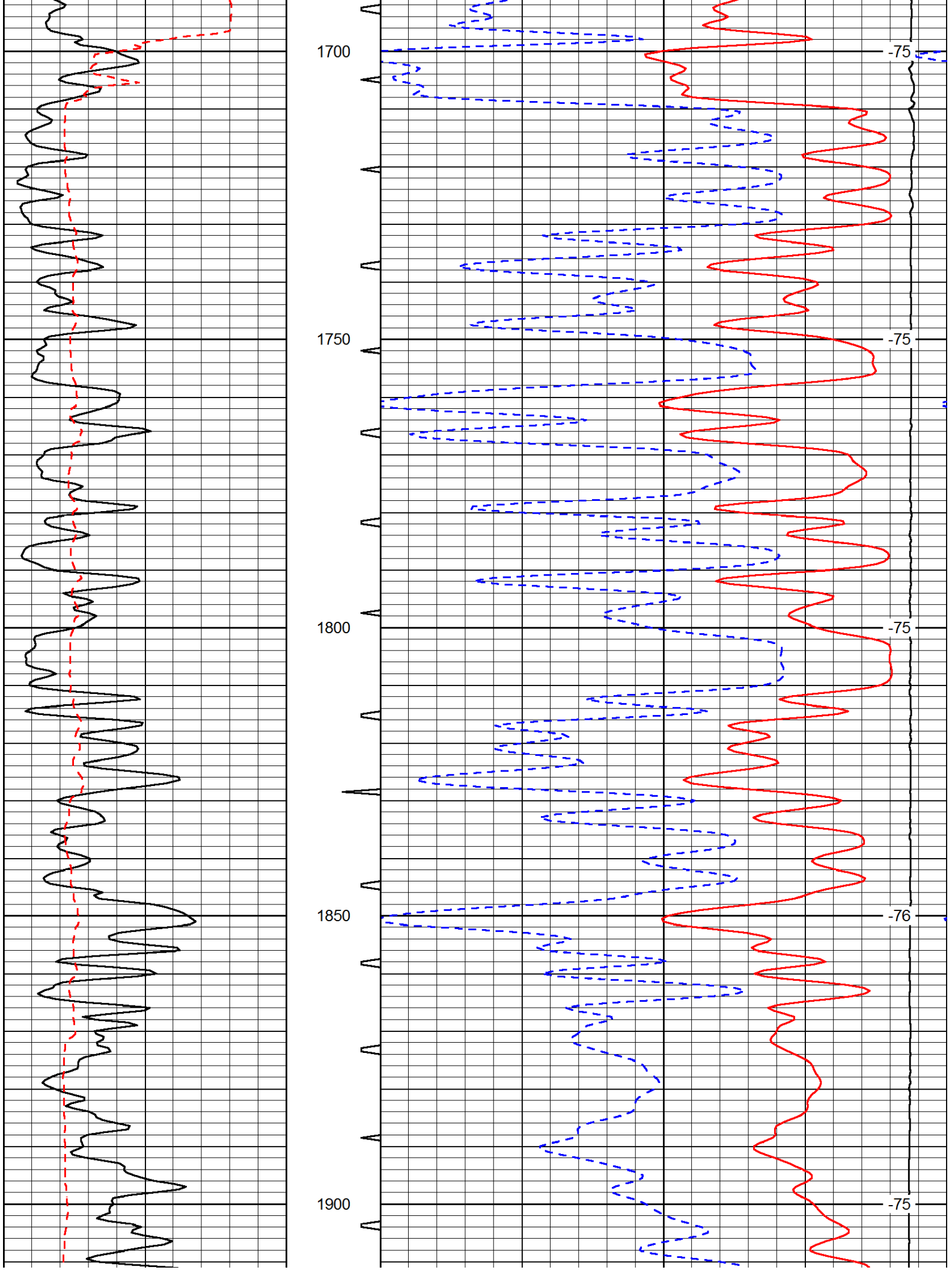

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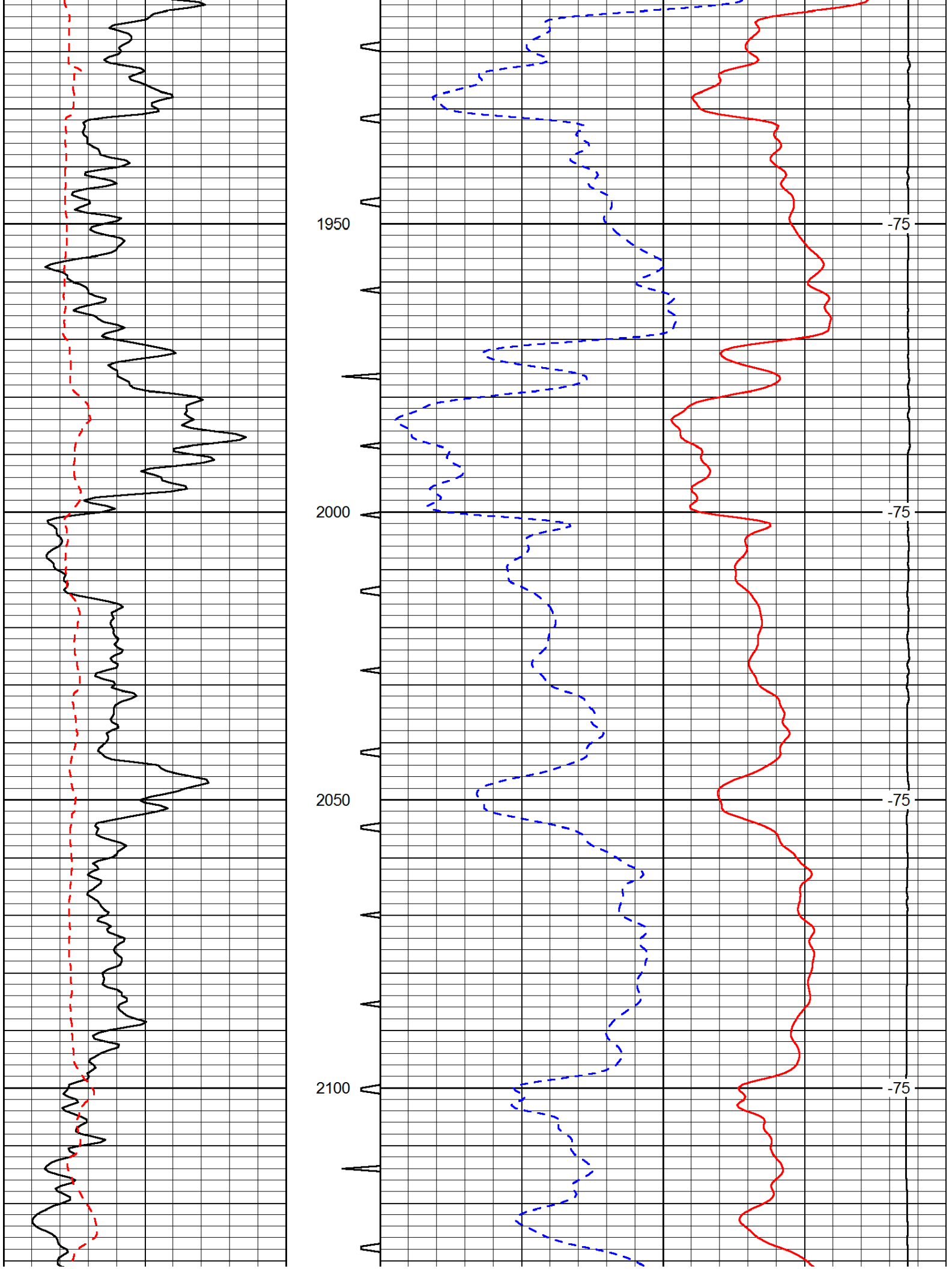

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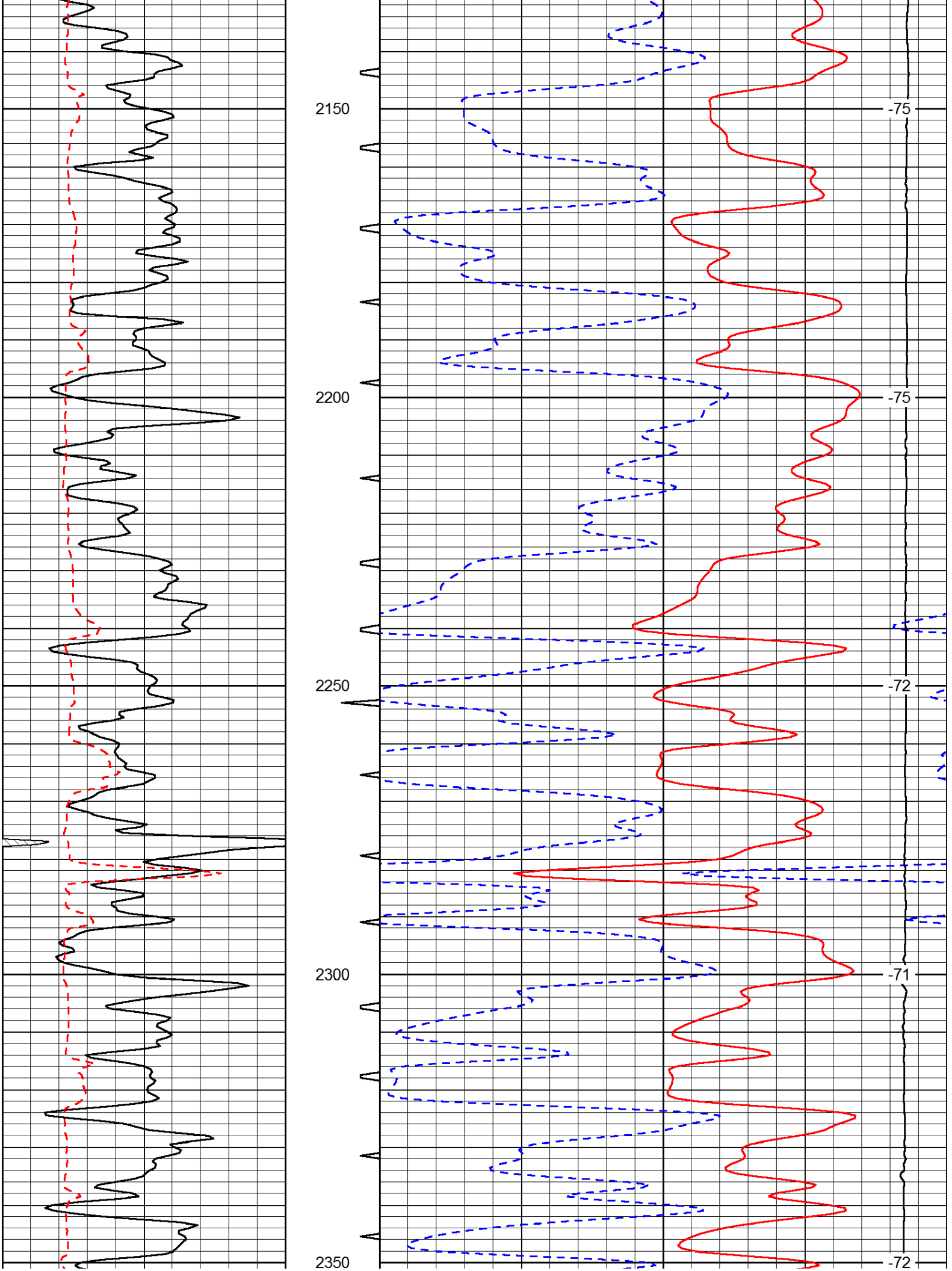

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1150
1200
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-77
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-75

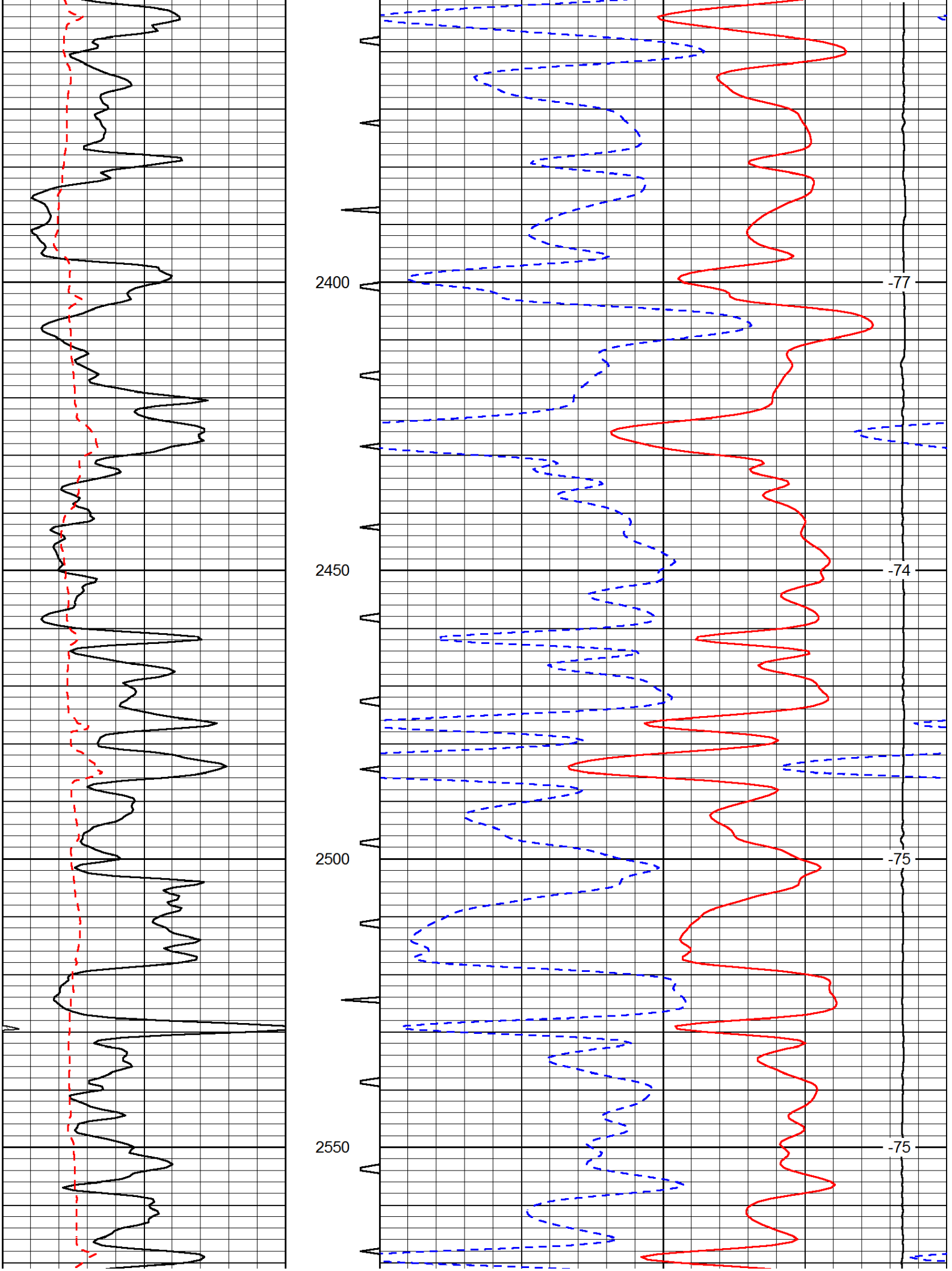

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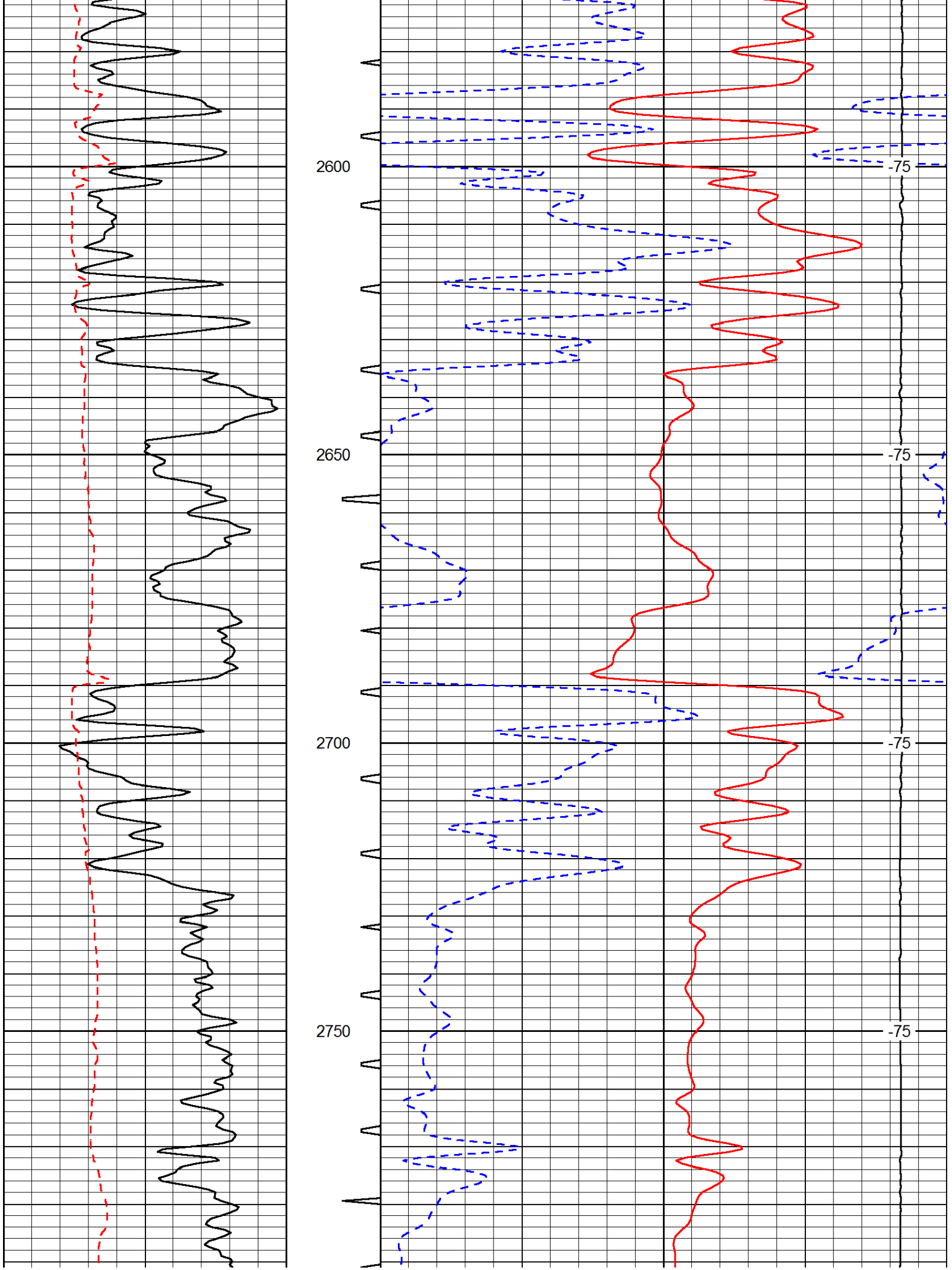

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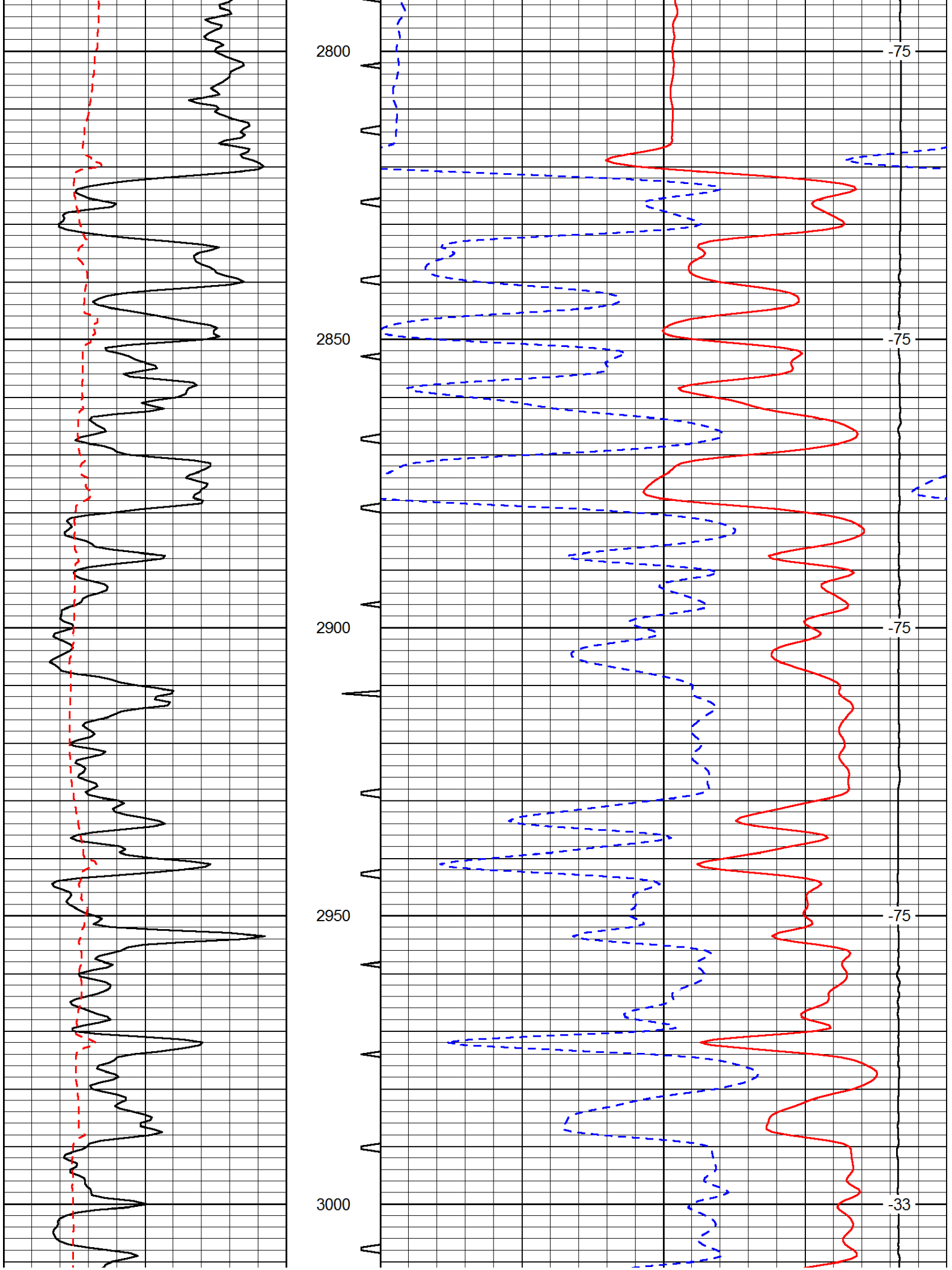

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1900
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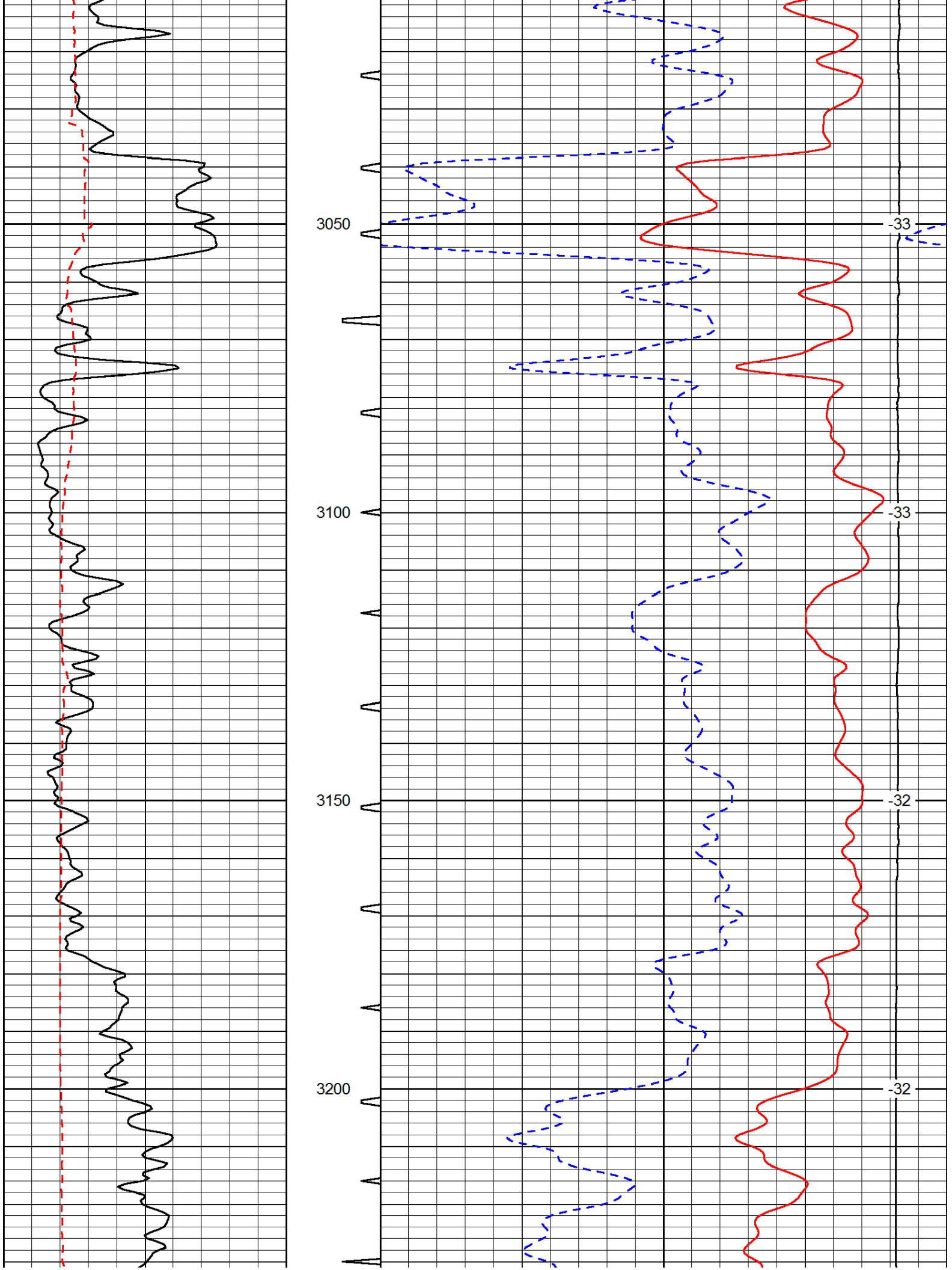

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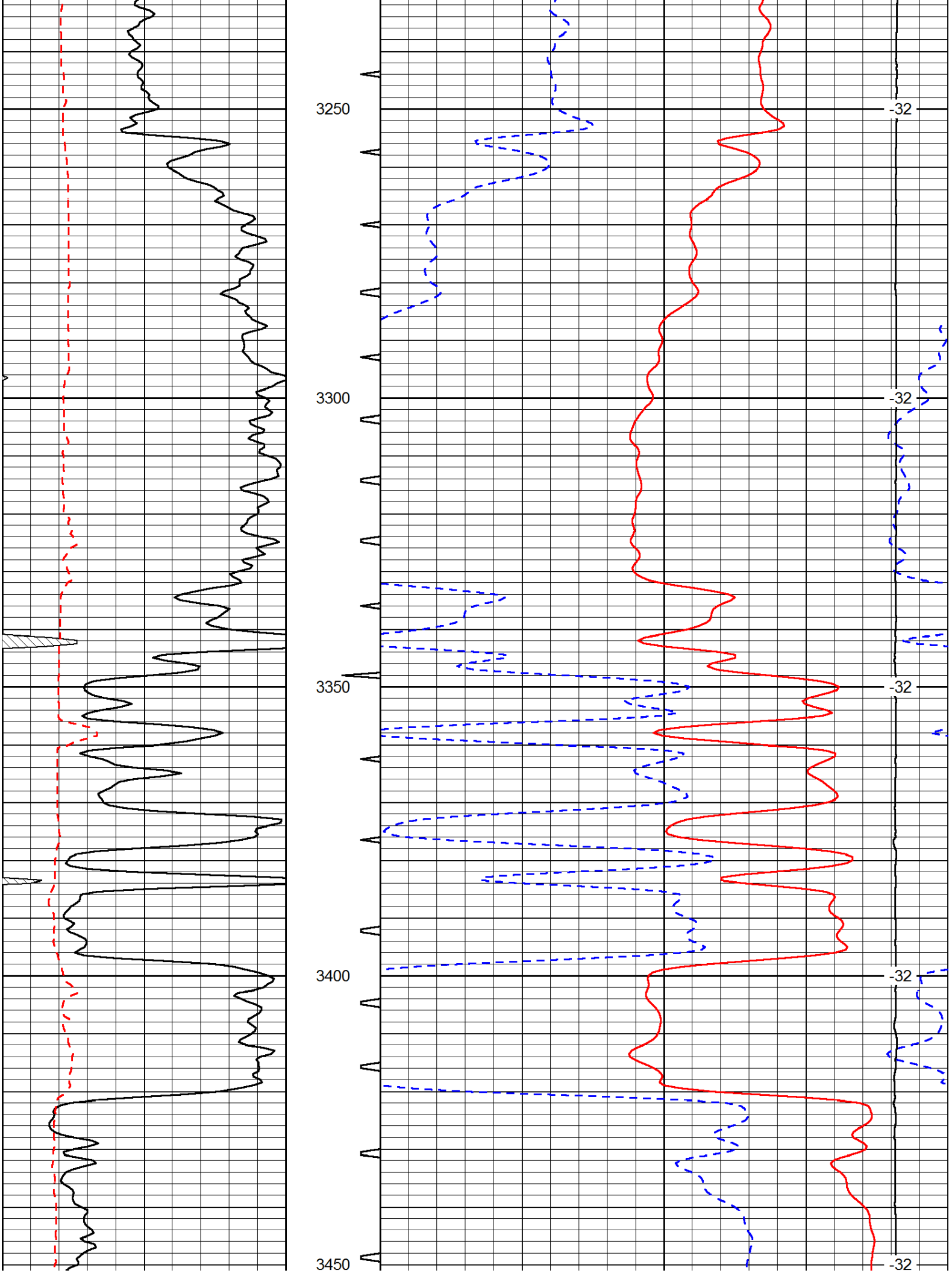

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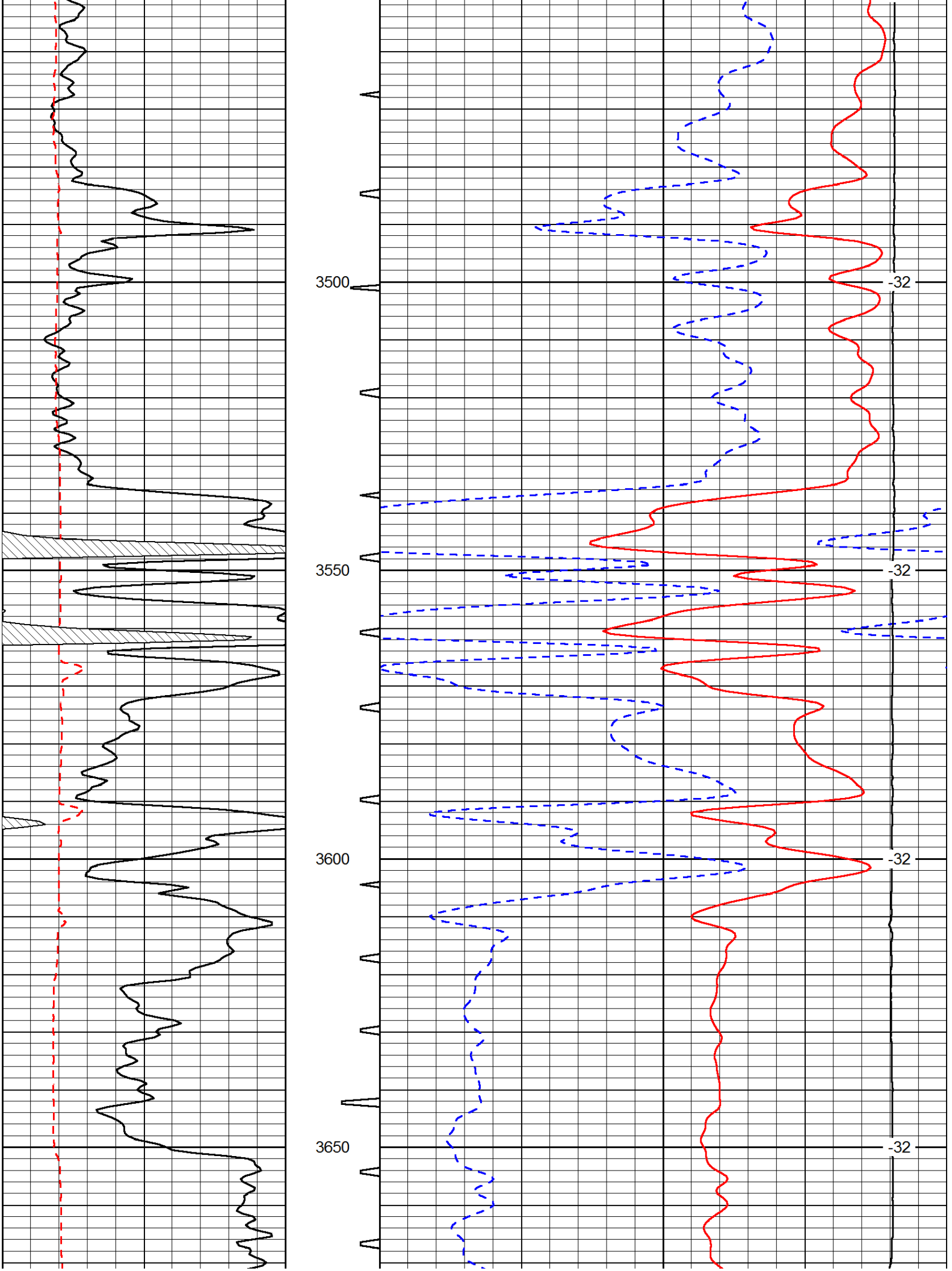

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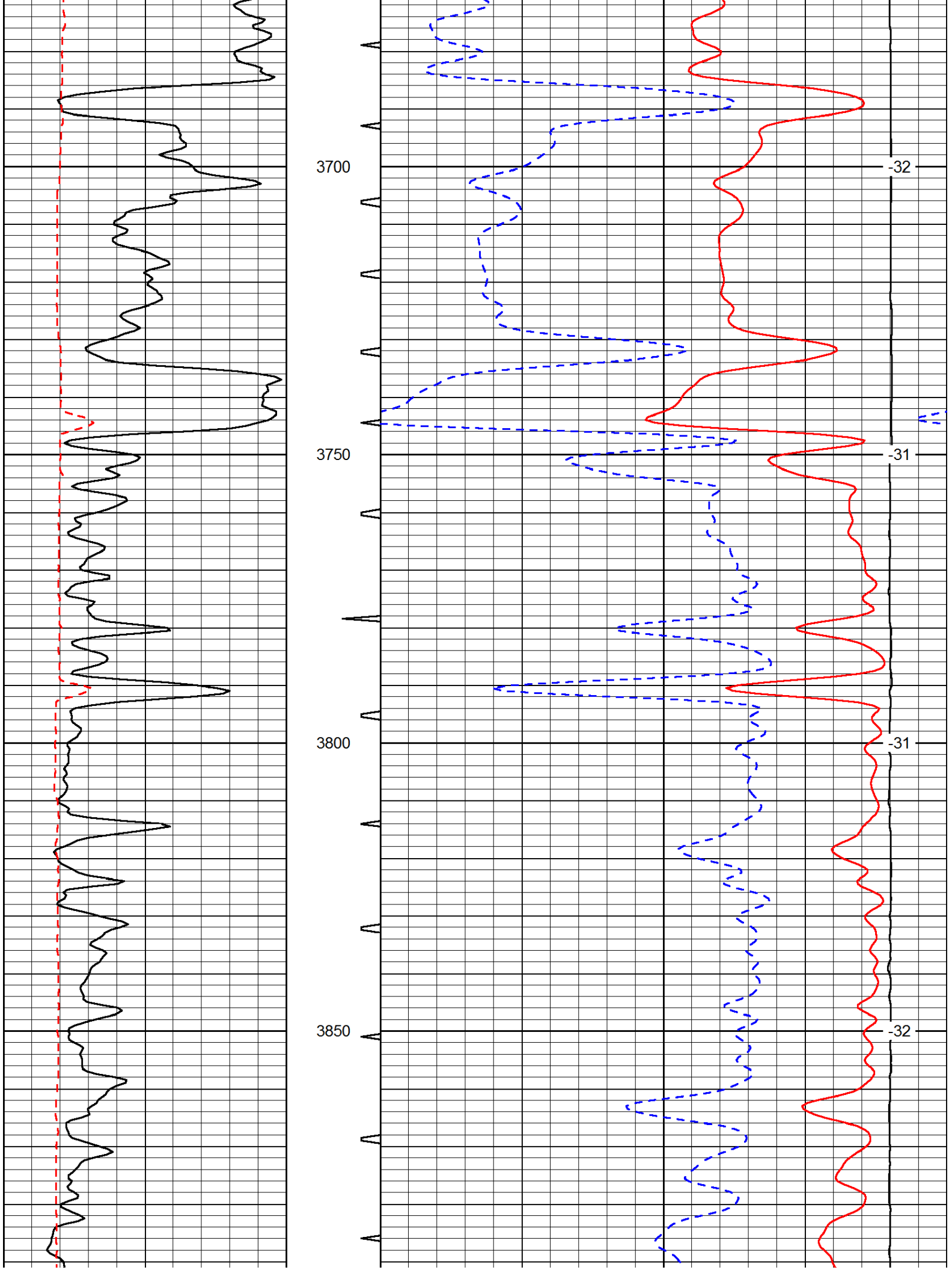

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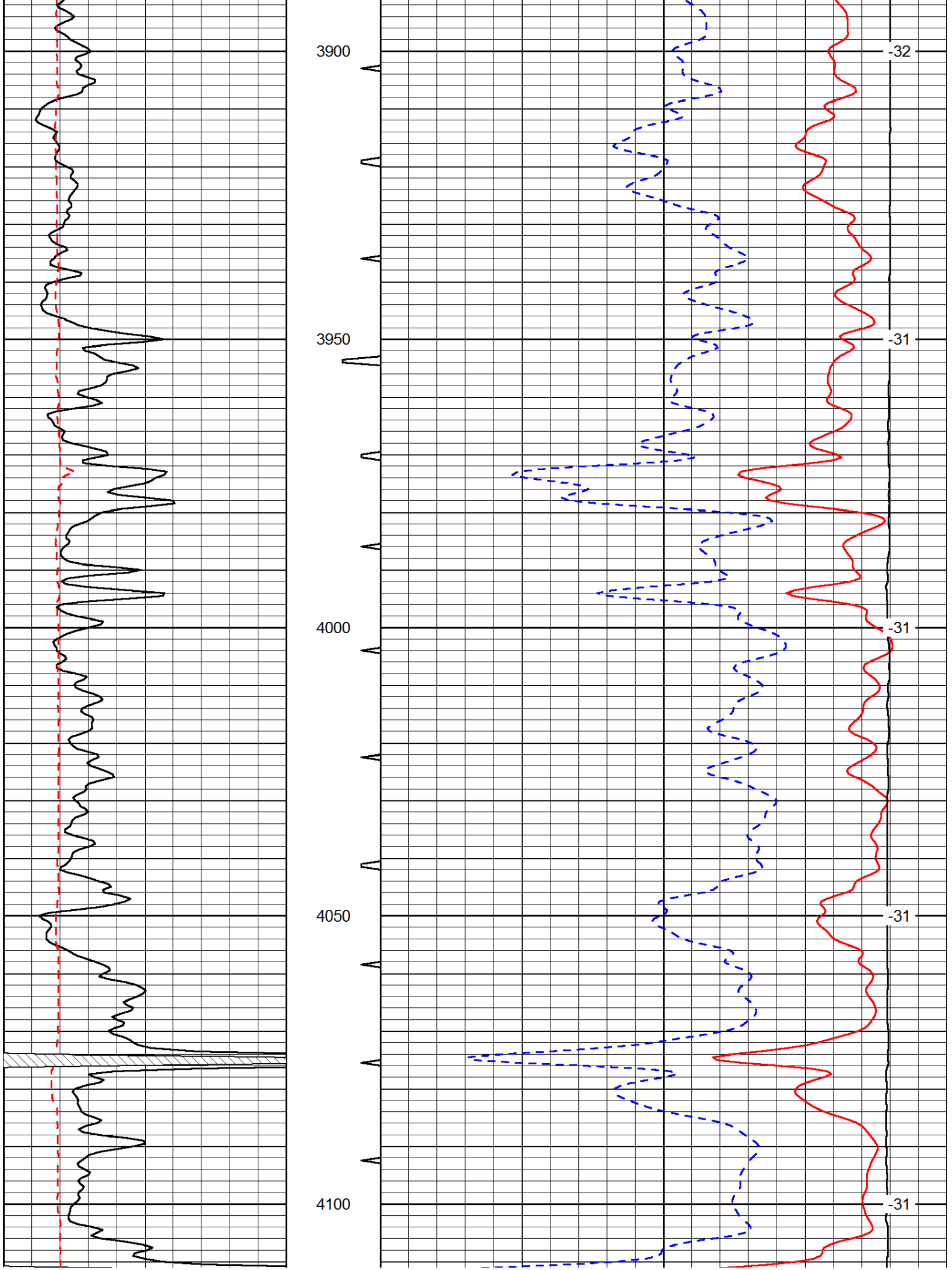

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-33

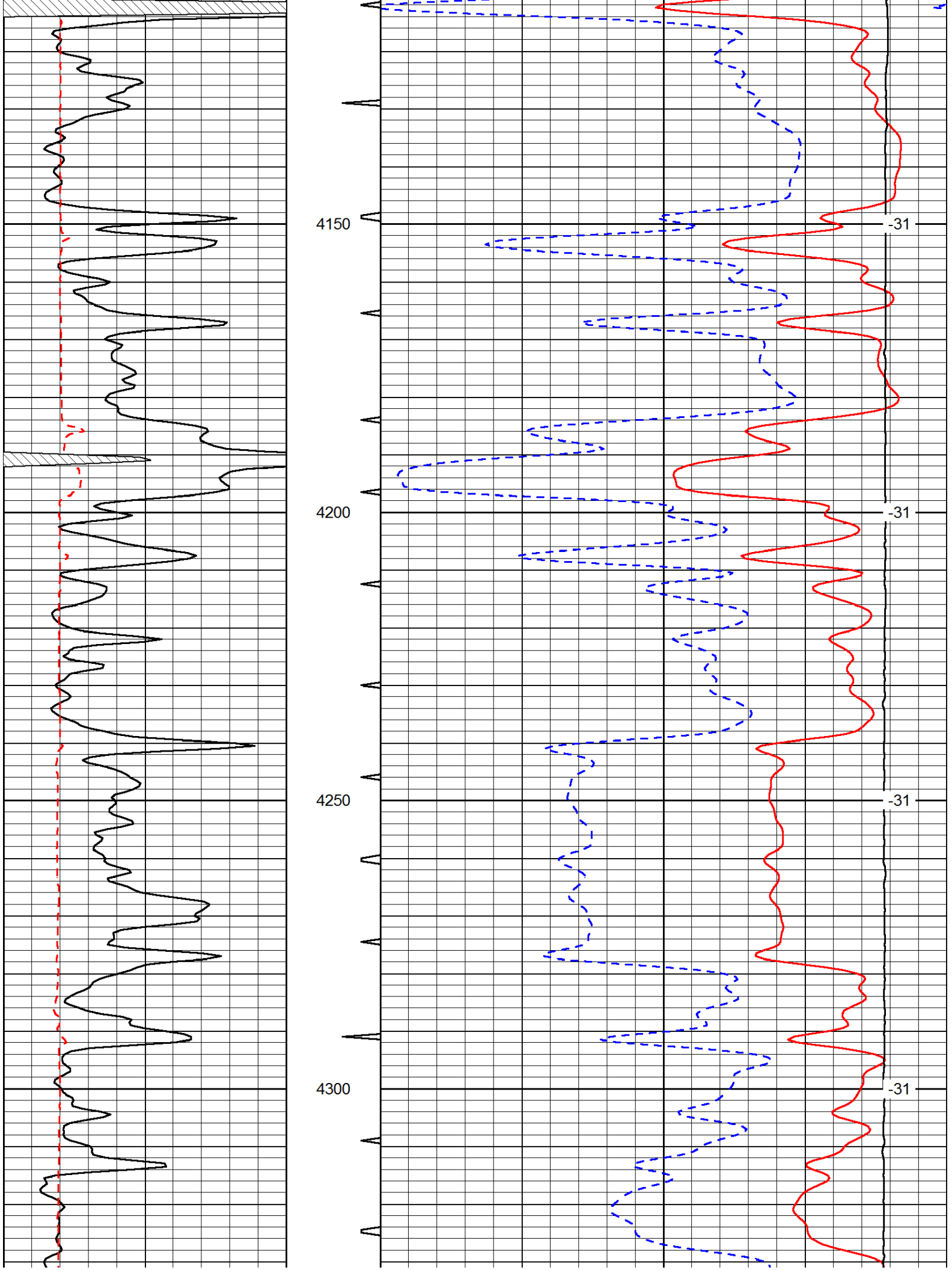

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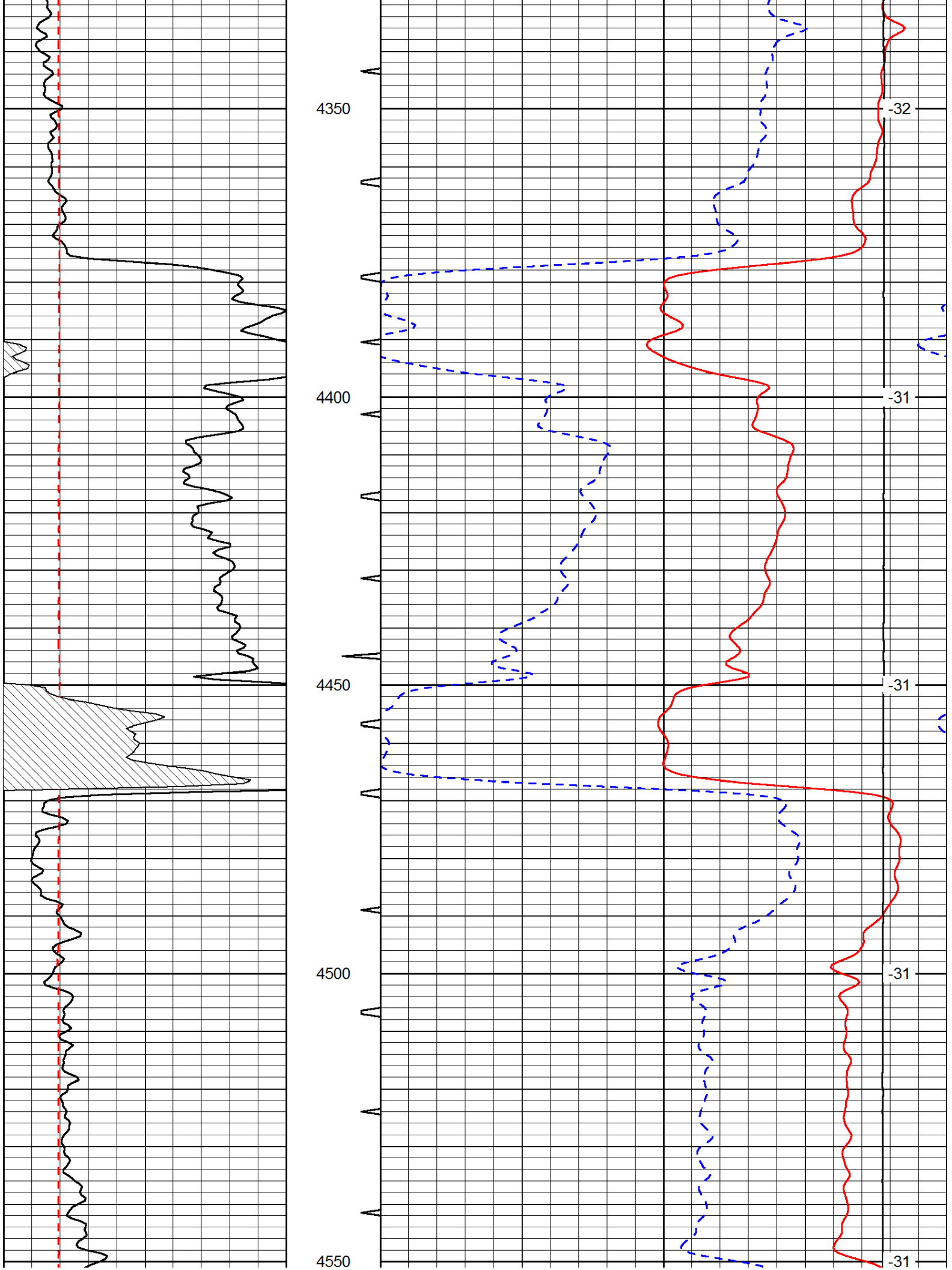

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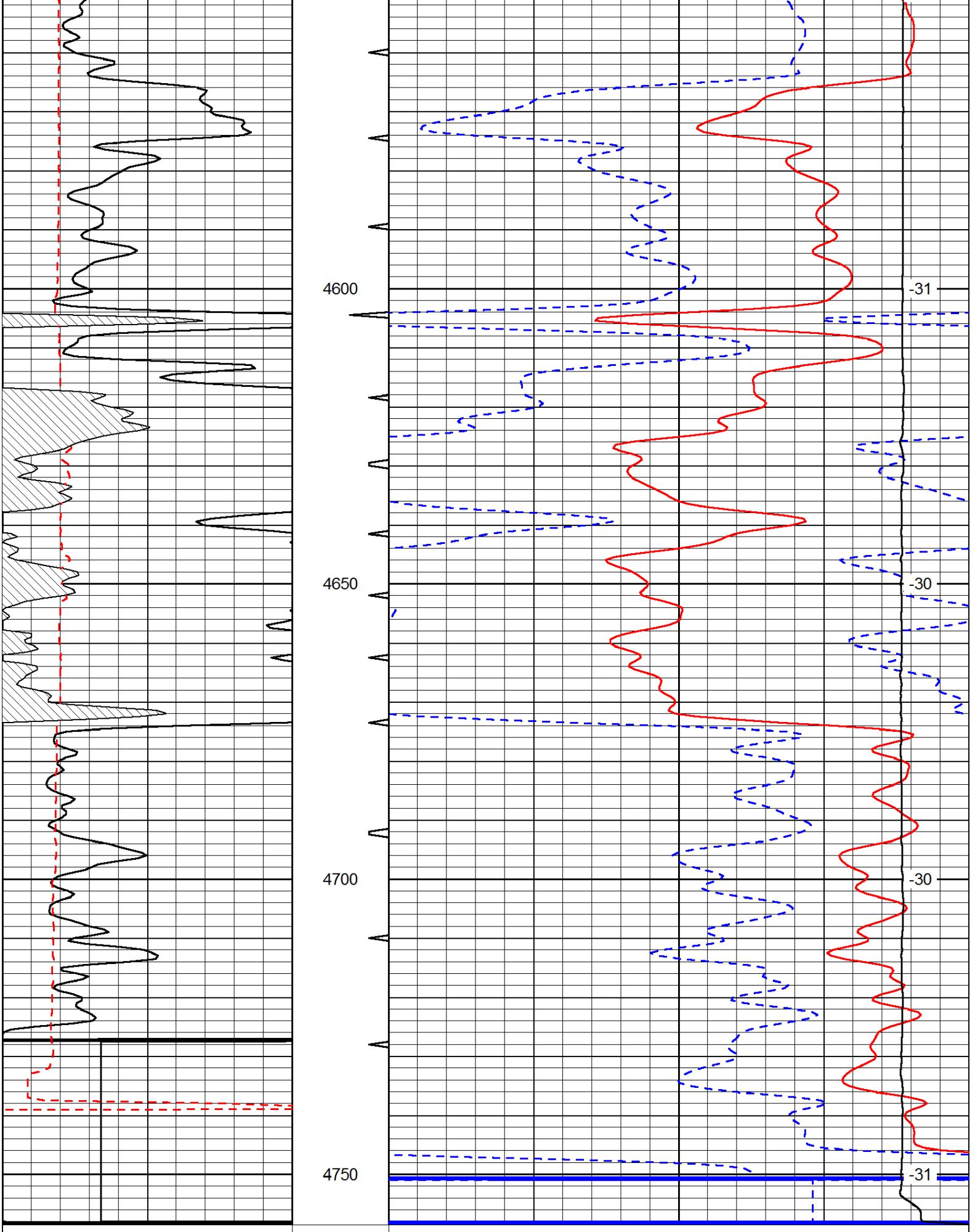

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3950
4000
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4100
-32
-31
-31
-31
-31


4150
-31
4200
-31
4250
-31
4300
-31


4350
4400
4450
4500
4550
-32
-31
-31
-31
-31



0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5 0	30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

LSPD