LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Induction Log

API No. 15-083-21,722-00-00

Company Norstar Petroleum, Inc.

Well Phillips-Denny No. 1-4

Field Fossil Ridge

County Hodgeman State Kansas

Location SE NW NE
1046' FNL & 1777' FEL
Sec: 4 Twp: 22 S Rge: 23 W

Other Services
CNL/CDL
MEL/BHCS

Elevation
K.B.: 2307
D.F.:
G.L.: 2302

Permanent Datum Ground Level Elevation 2302
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured FromKelly Bushing

Date	8/28/2011		
Run Number	One		
Depth Driller	4700		
Depth Logger	4701		
Bottom Logged Interval	4700		
Top Log Interval	00		
Casing Driller	8.625 @ 257		
Casing Logger	260		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7,400		
Density / Viscosity	9.1 56		
pH / Fluid Loss	9.0 16		
Source of Sample	Flowline		
Rm @ Meas. Temp	.62 @ 80		
Rmf @ Meas. Temp	.47 @ 80		
Rmc @ Meas. Temp	.83 @ 80		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.40 @ 125		
Operating Rig Time	4 1/2 Hours		
Max. Rec. Temp. F	125		
Equipment Number	91		
Location	Hays		
Recorded By	K.Bange		
Witnessed By	Brad Rine		

<<< Fold Here >>>

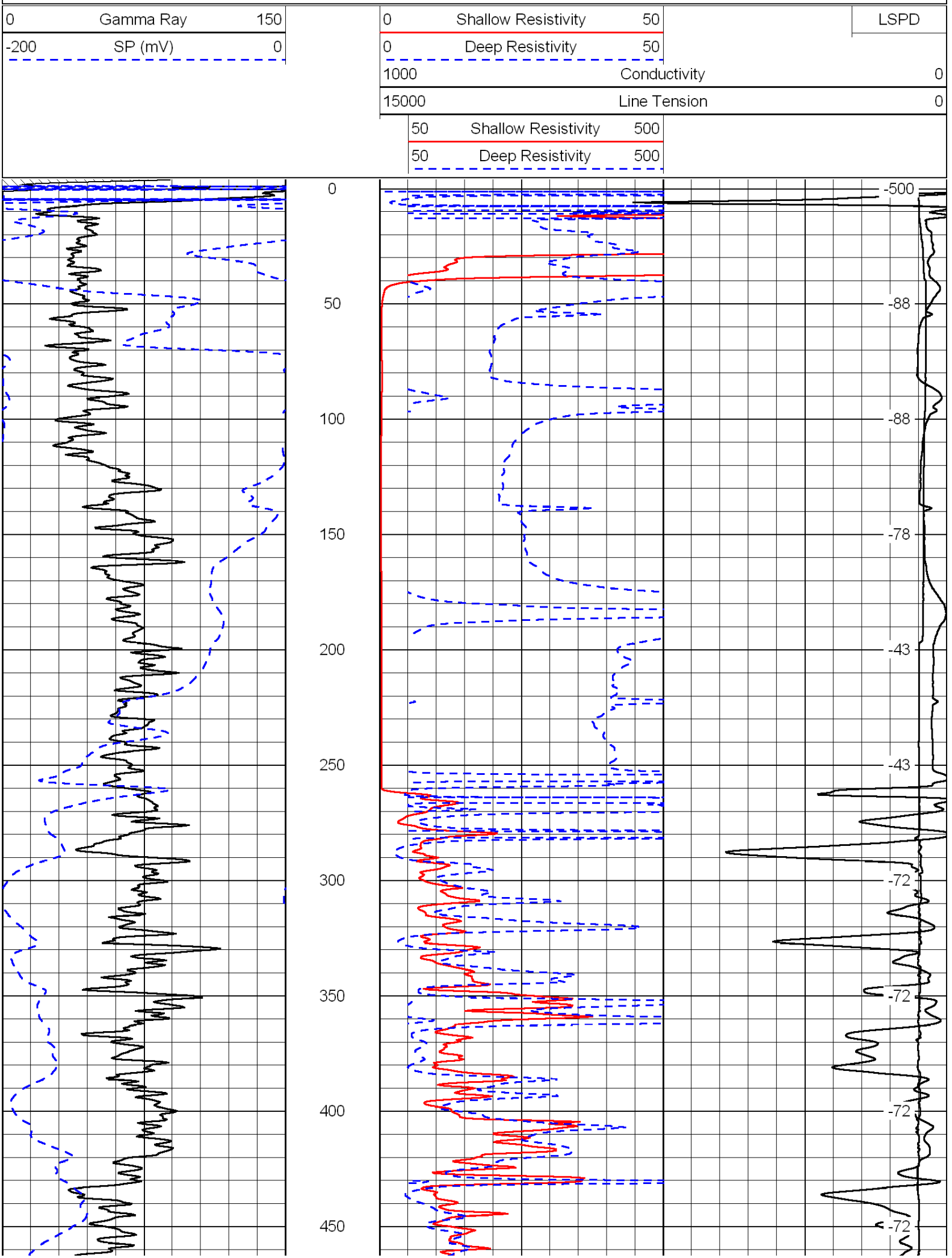
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

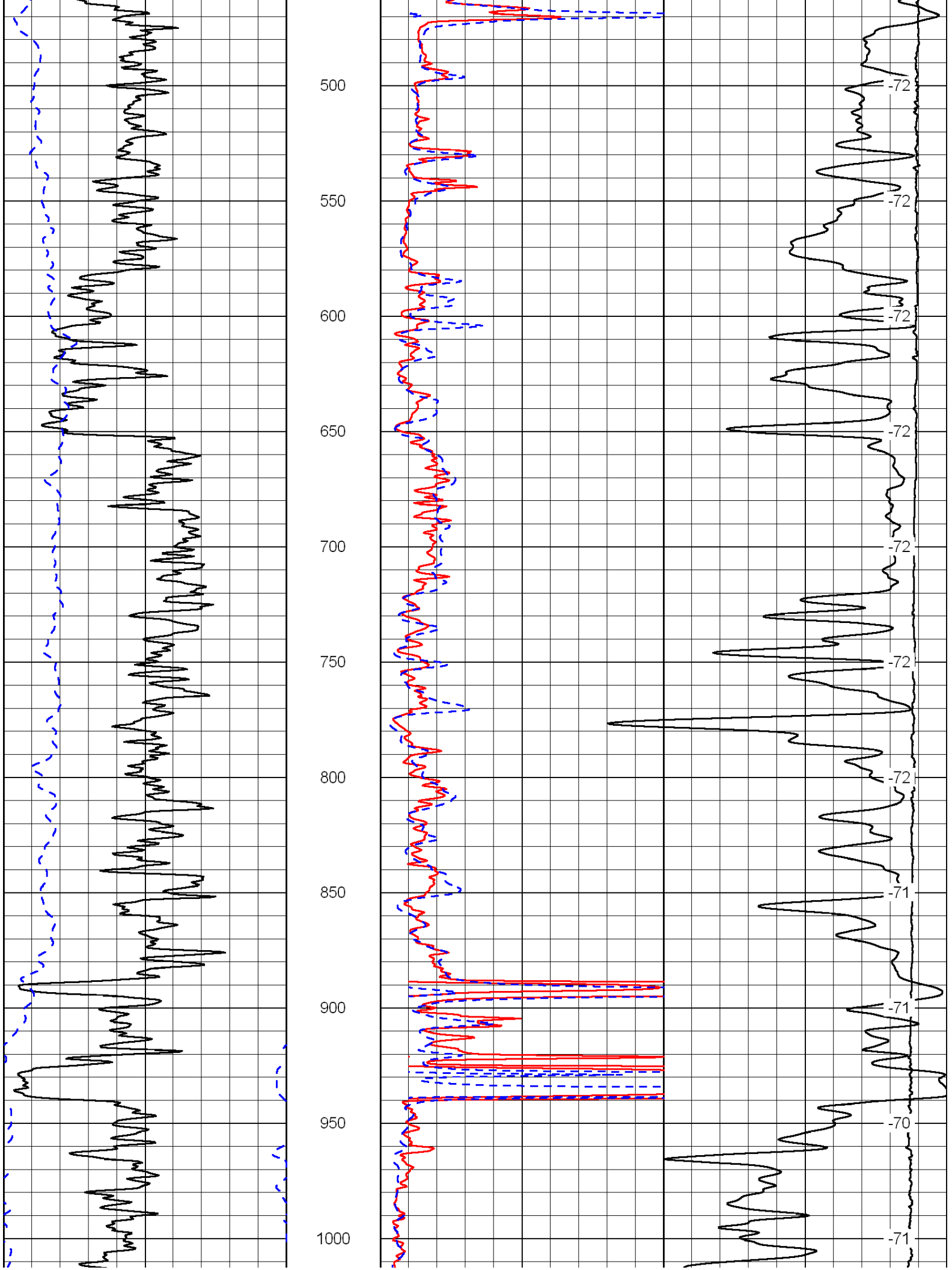
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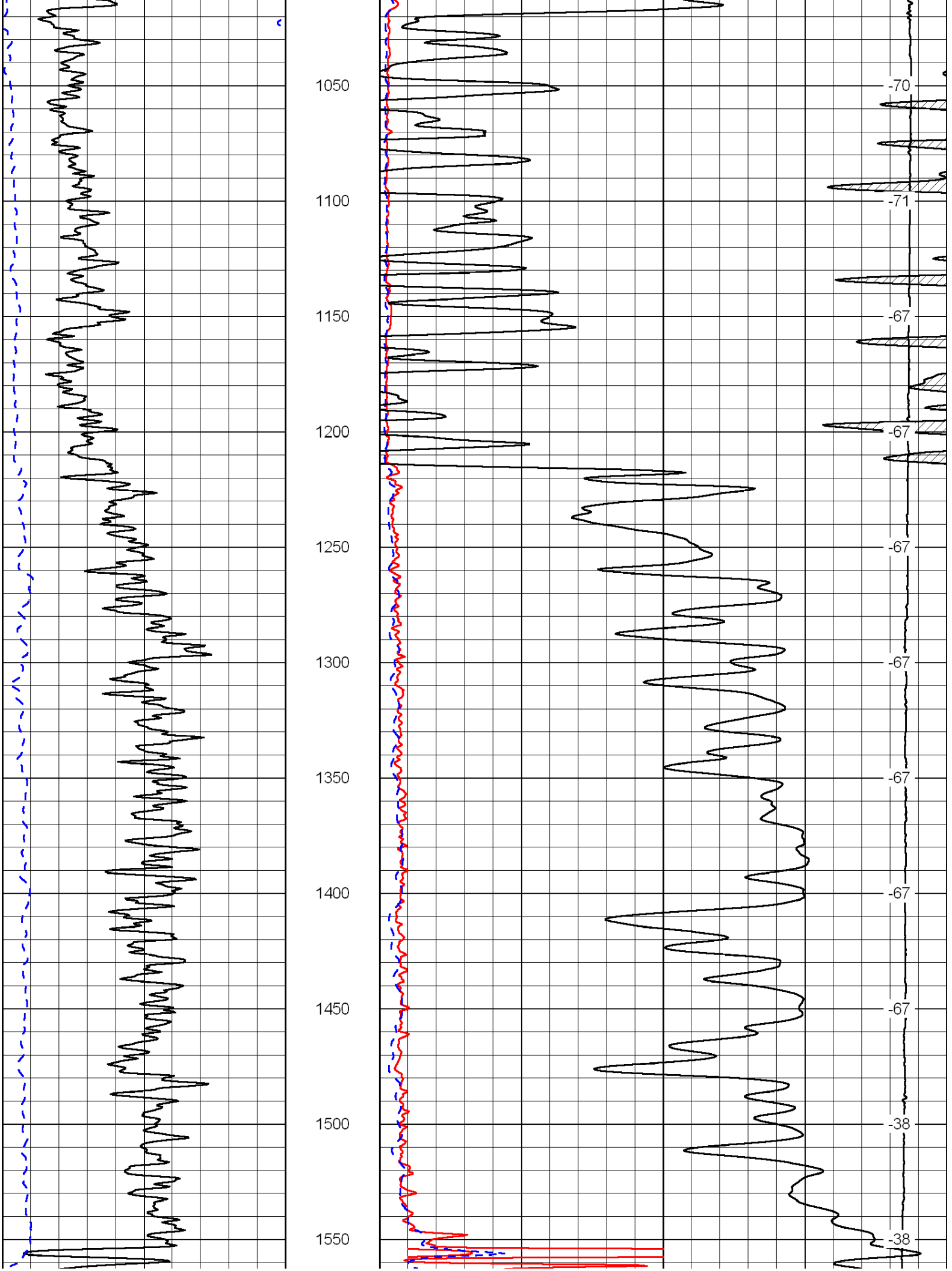
Thank you for using Log-Tech, Inc.
(785) 625-3858

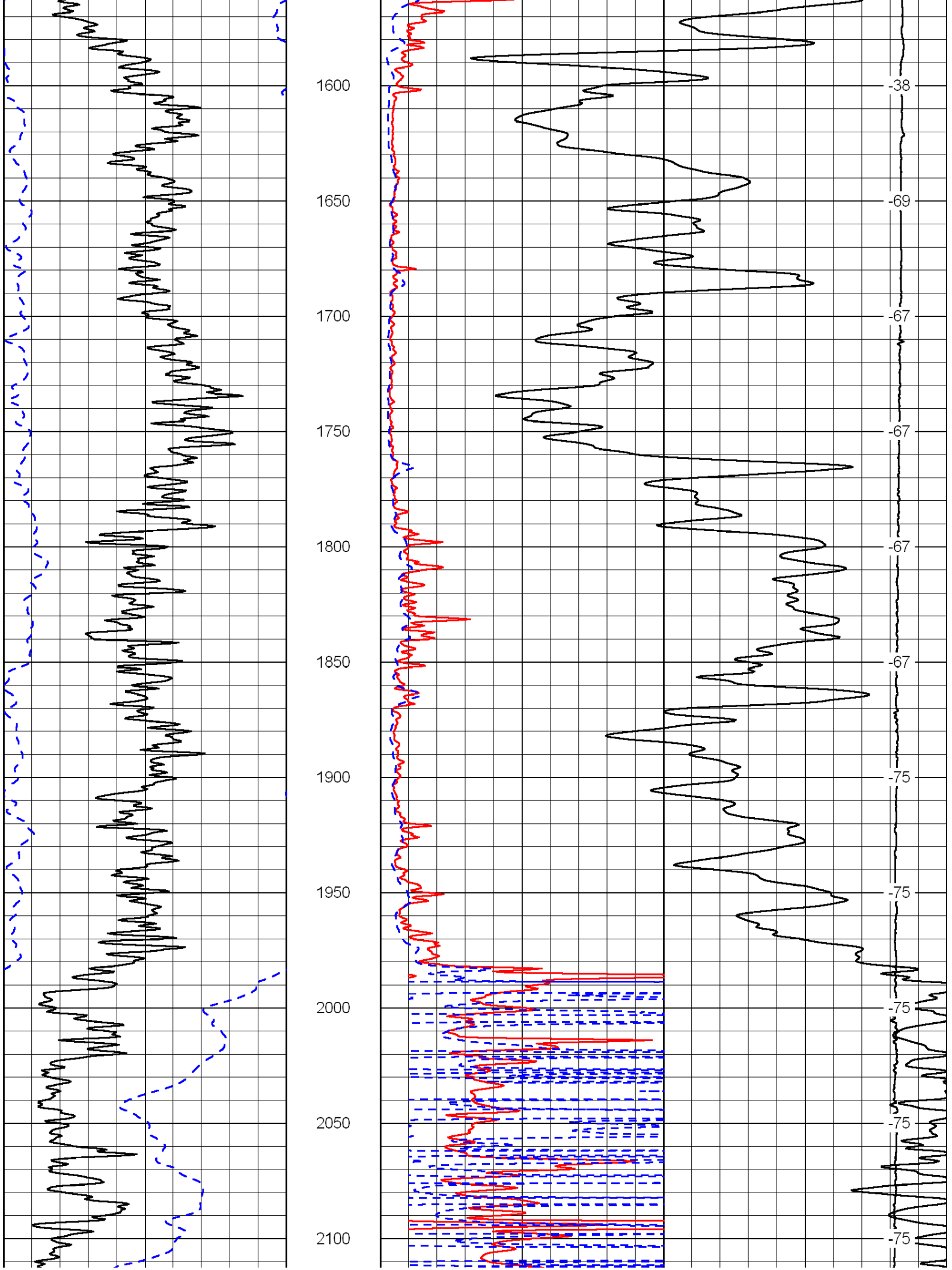
Ness City South to S Rd.
East 2 1/2
South into

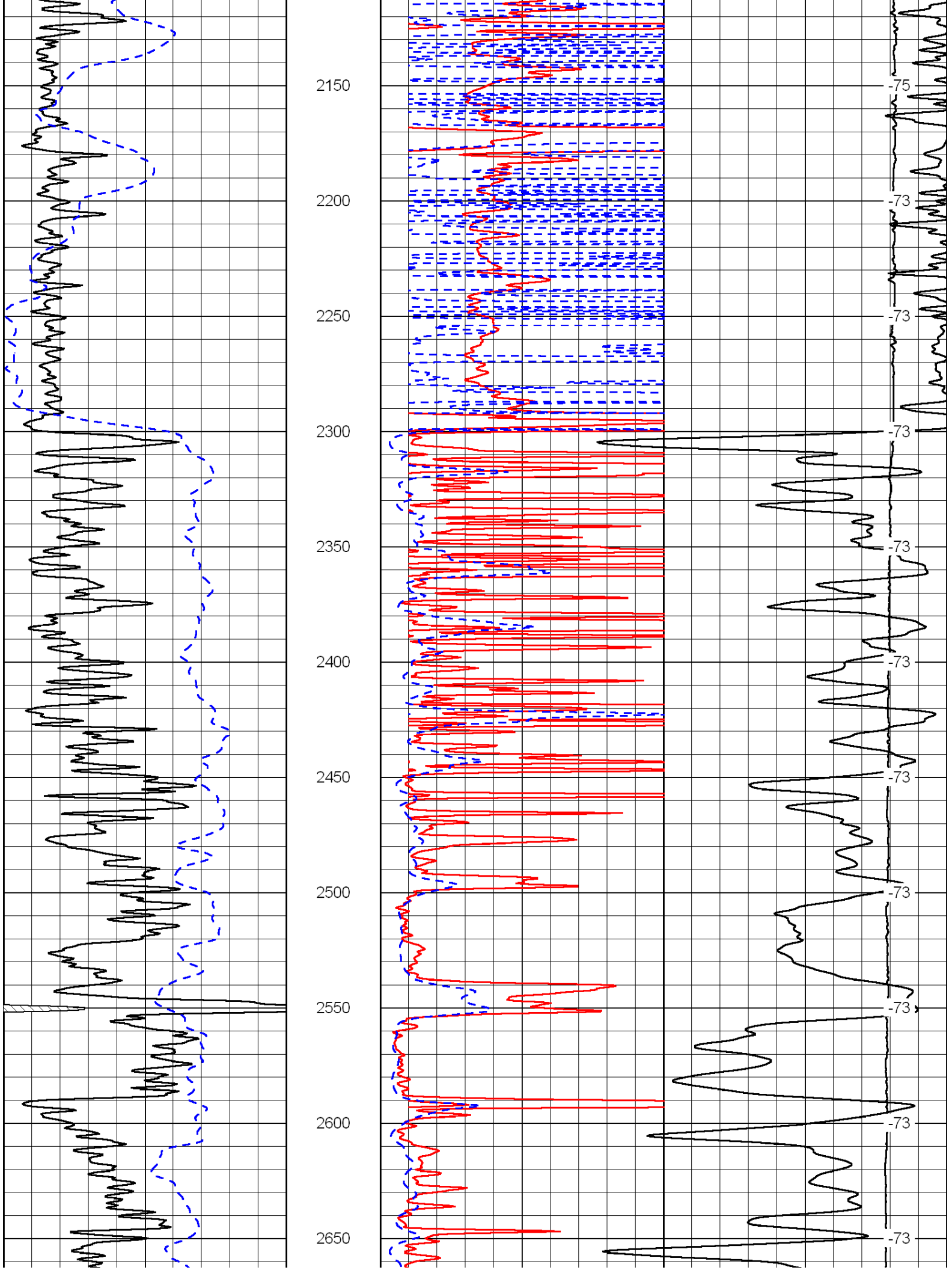
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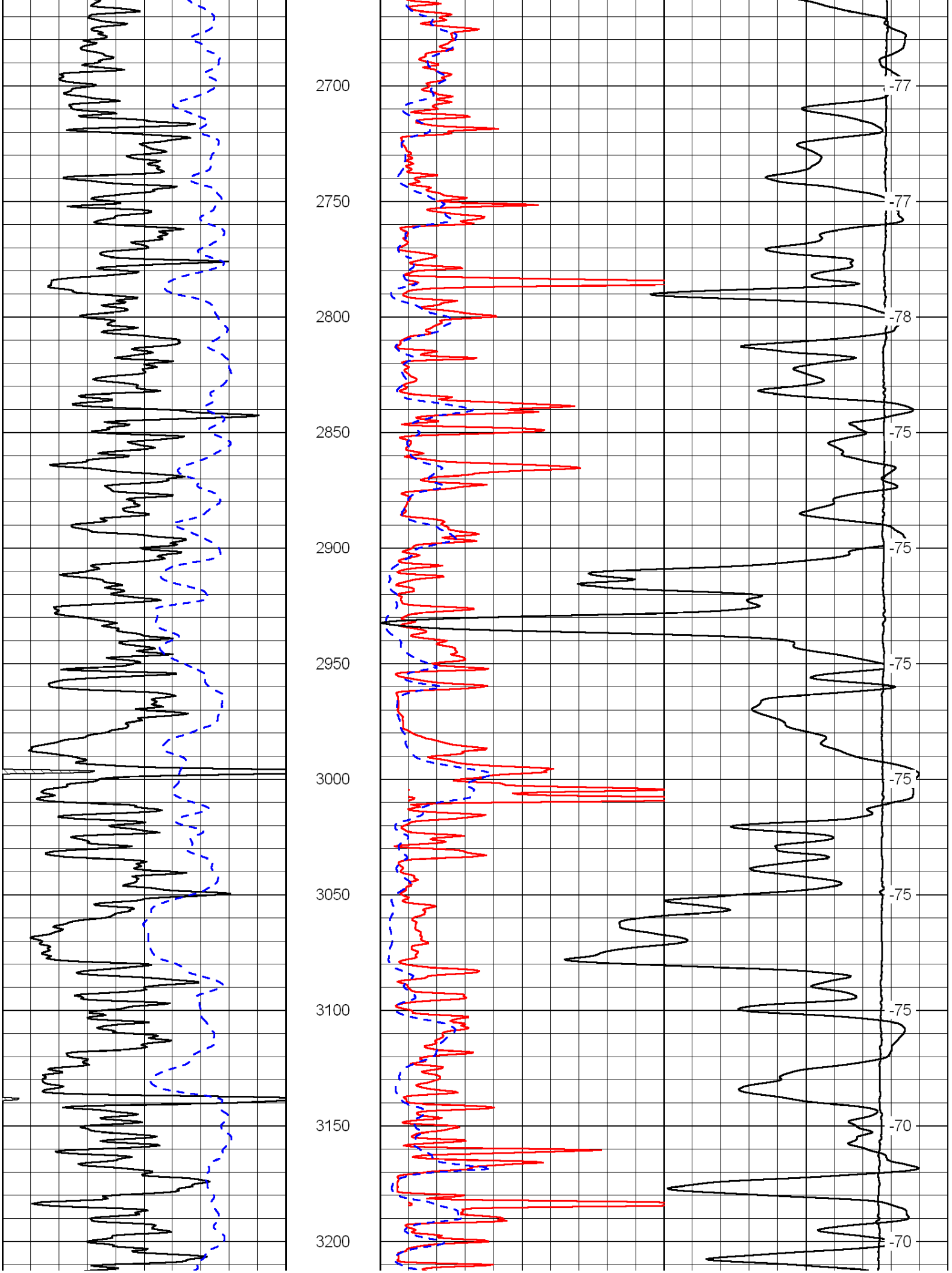

0 Gamma Ray 150
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
0
50
100
150
200
250
300
350
400
450
-500
-88
-88
-78
-43
-43
-72
-72
-72
-72

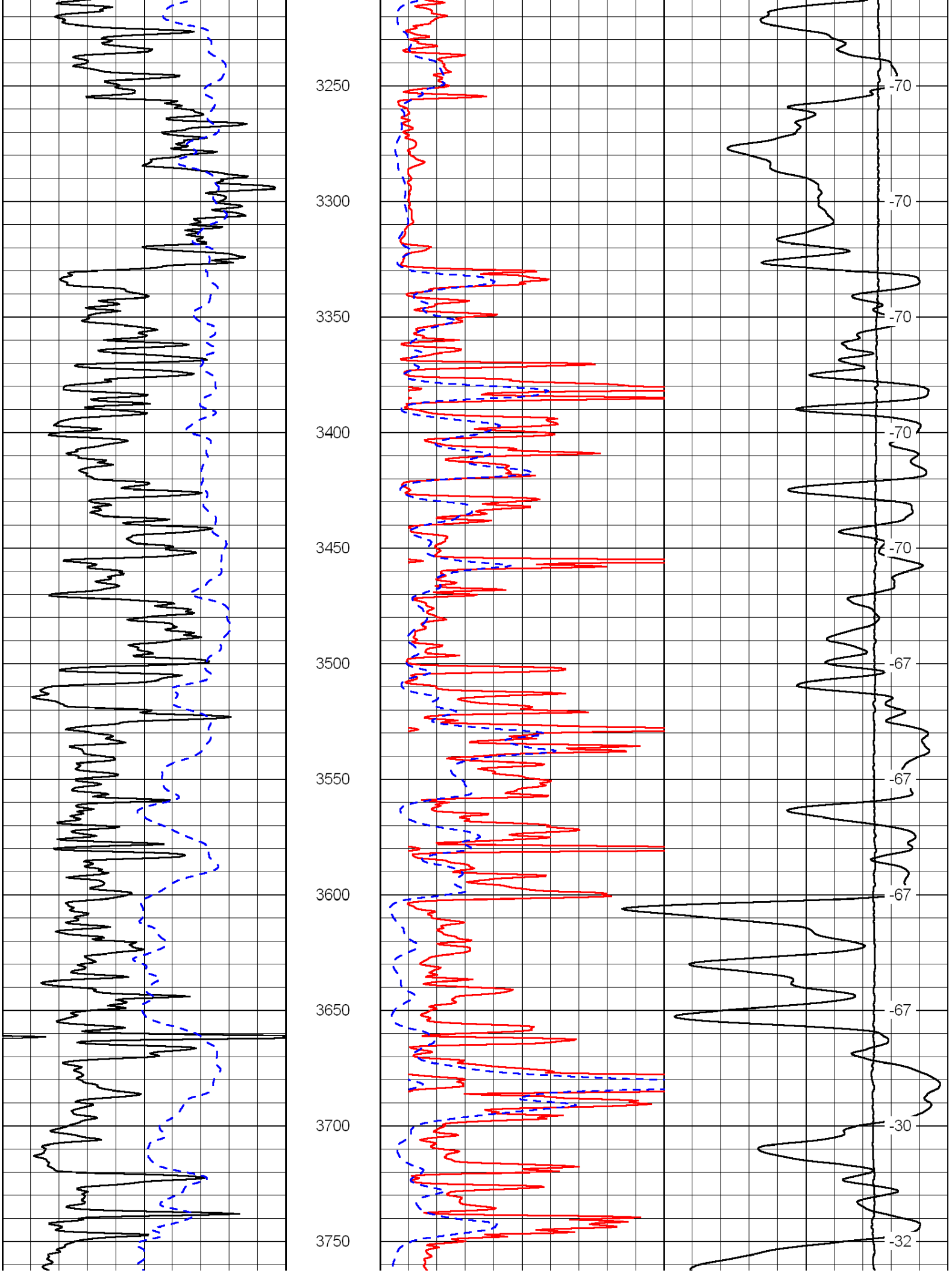

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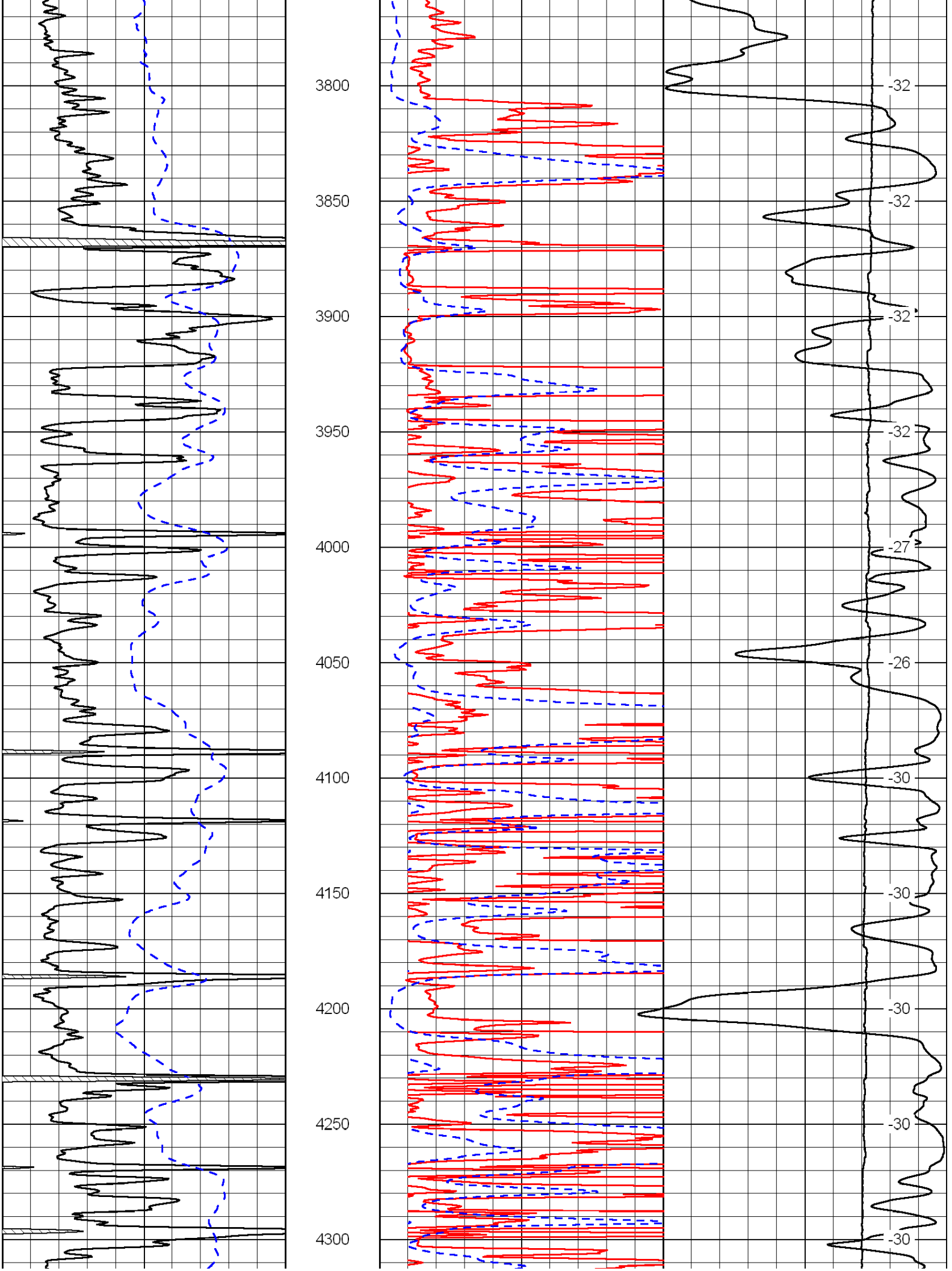

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1100
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1200
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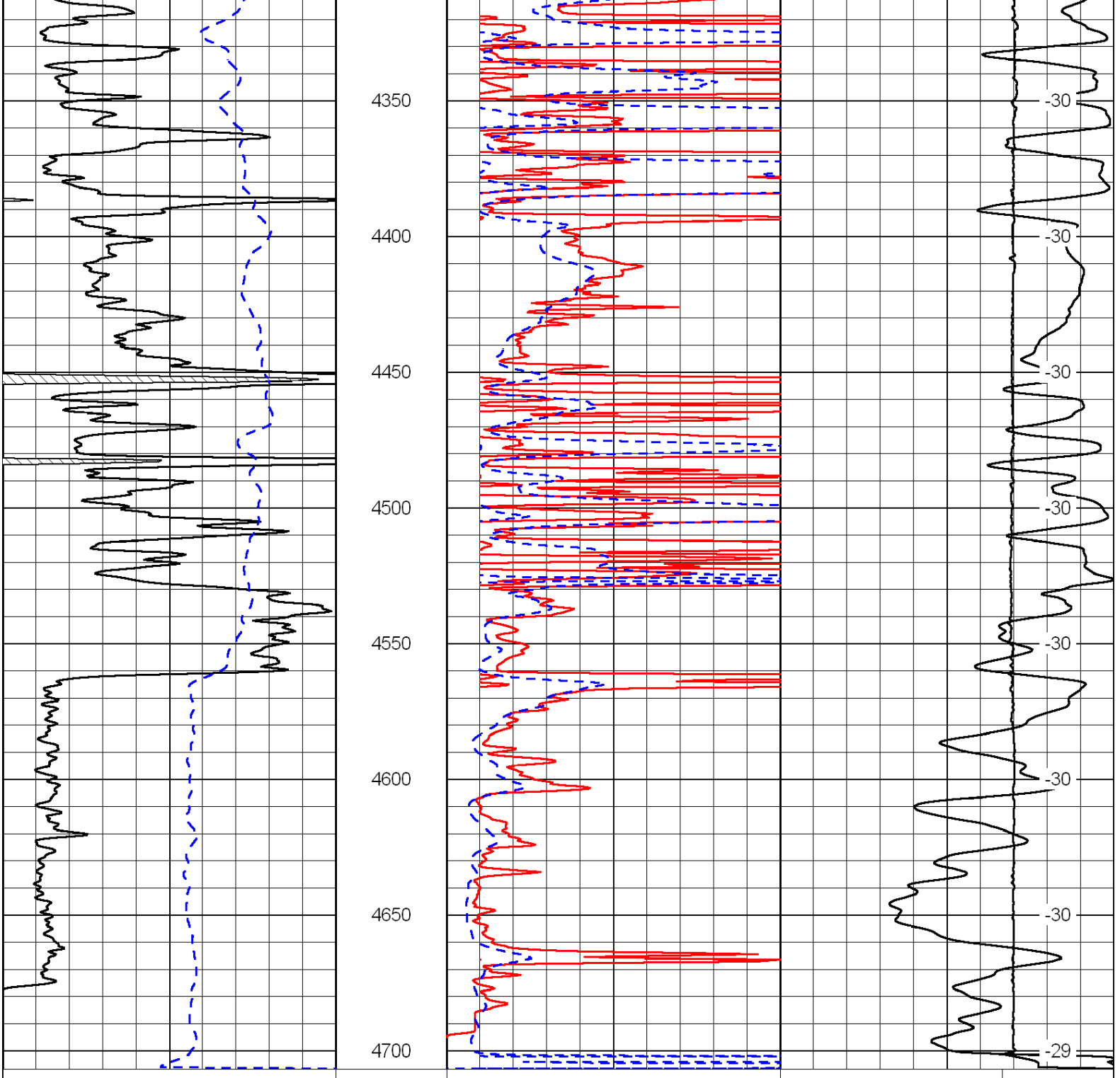

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1650
1700
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1800
1850
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1950
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-67
-75
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-75


2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
-75
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-73
-73
-73
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-73


2700
2750
2800
2850
2900
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3050
3100
3150
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3250
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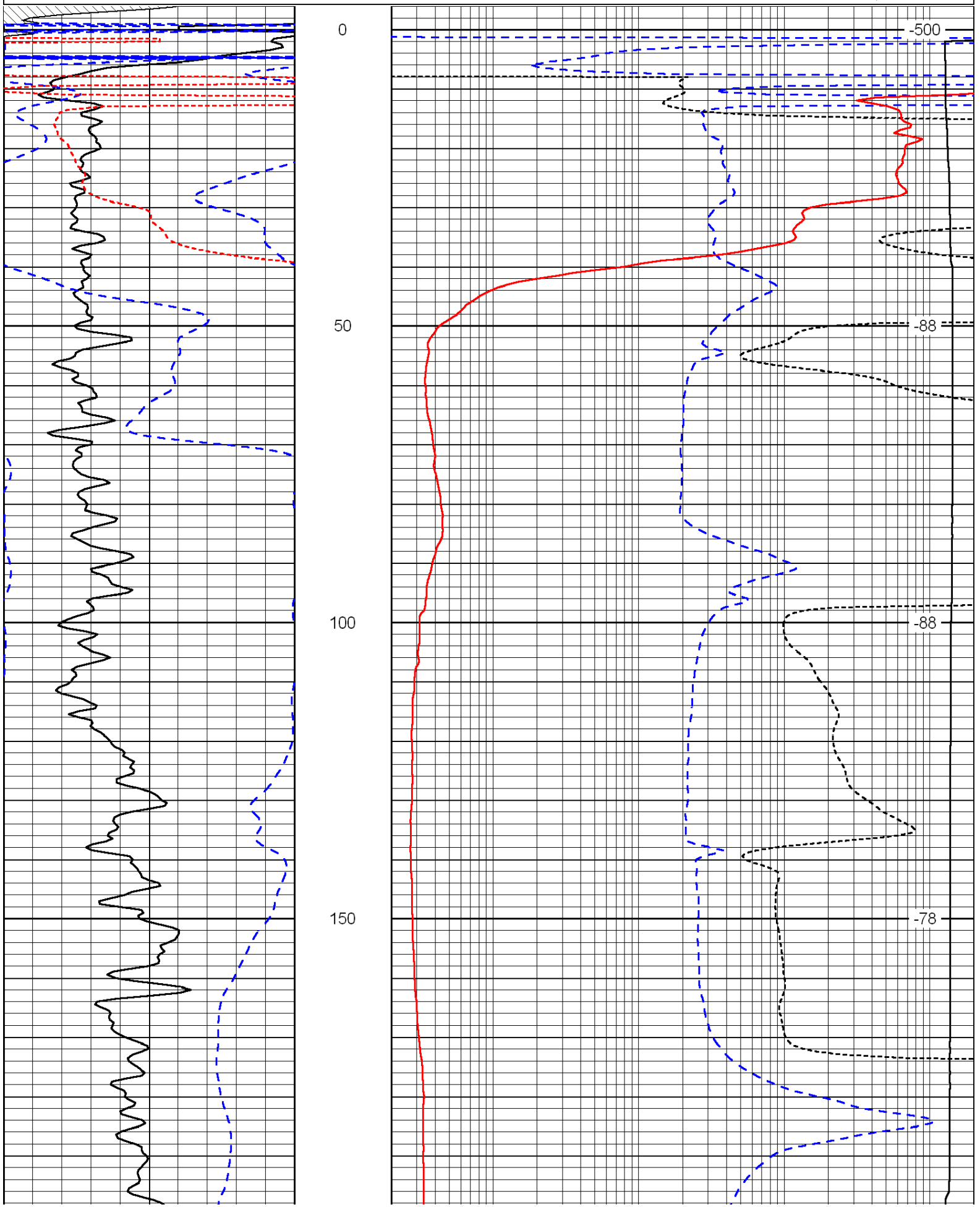
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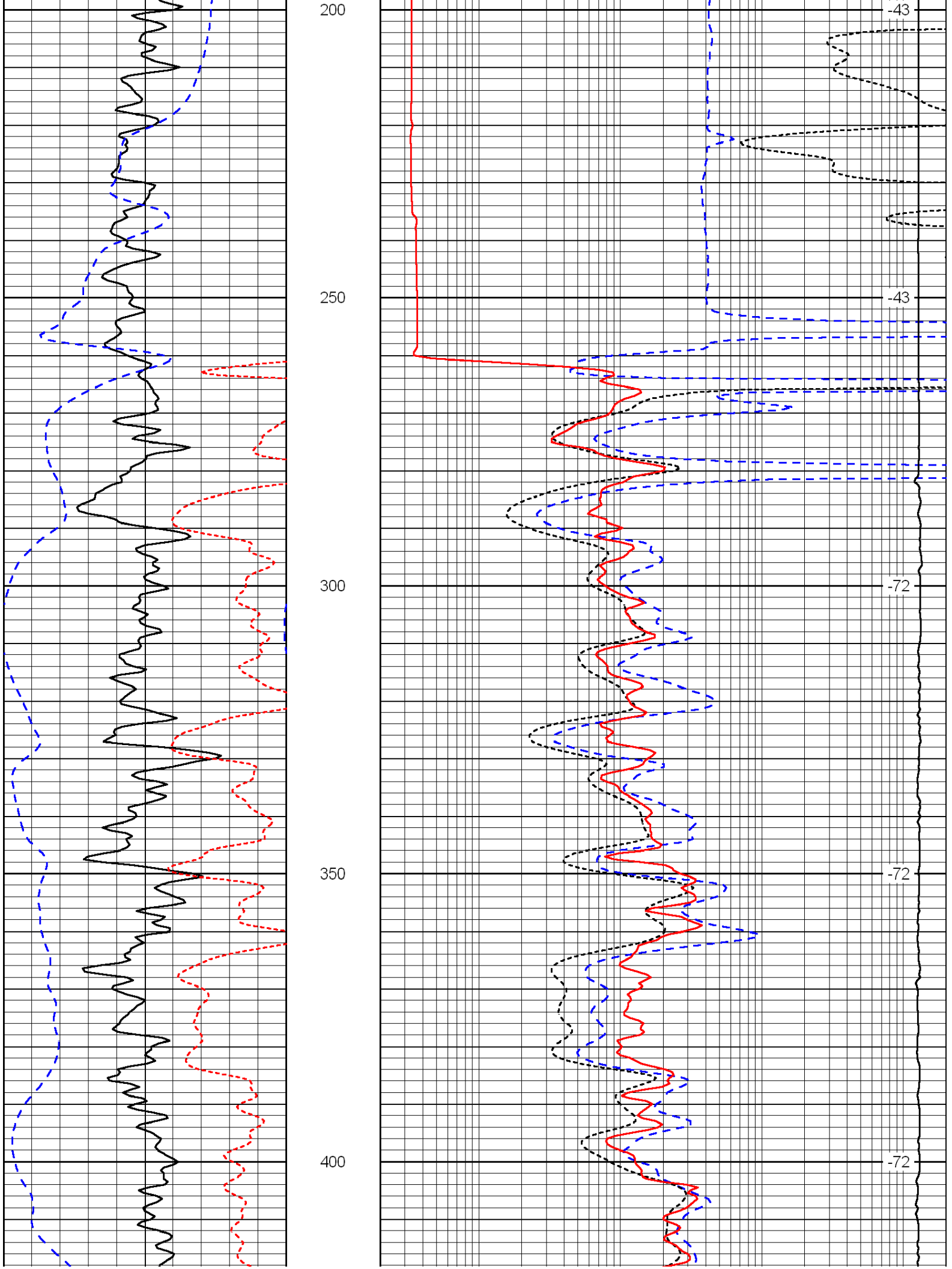
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-200	SP (mV)	0

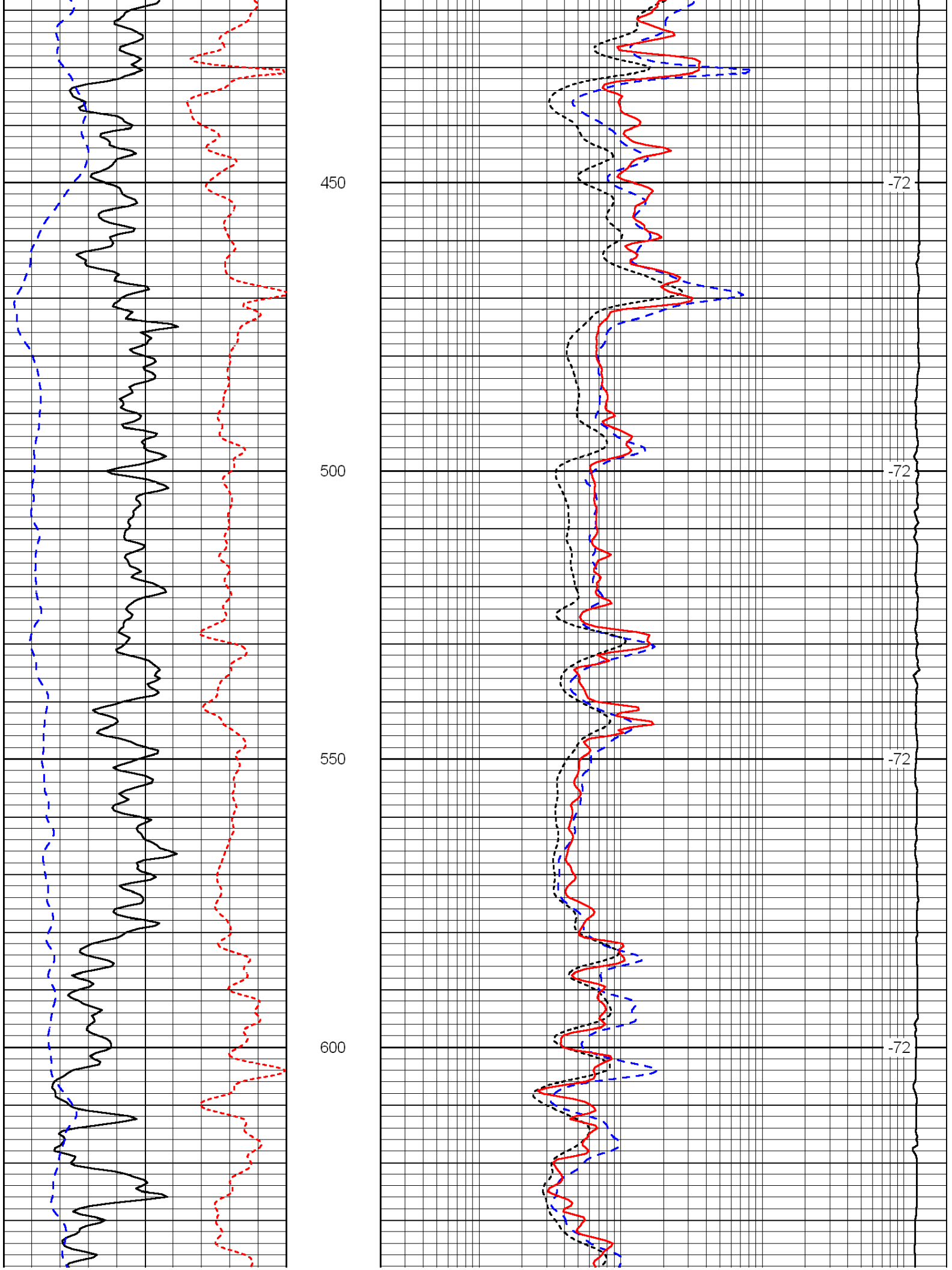
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0.2	Medium Resistivity	2000

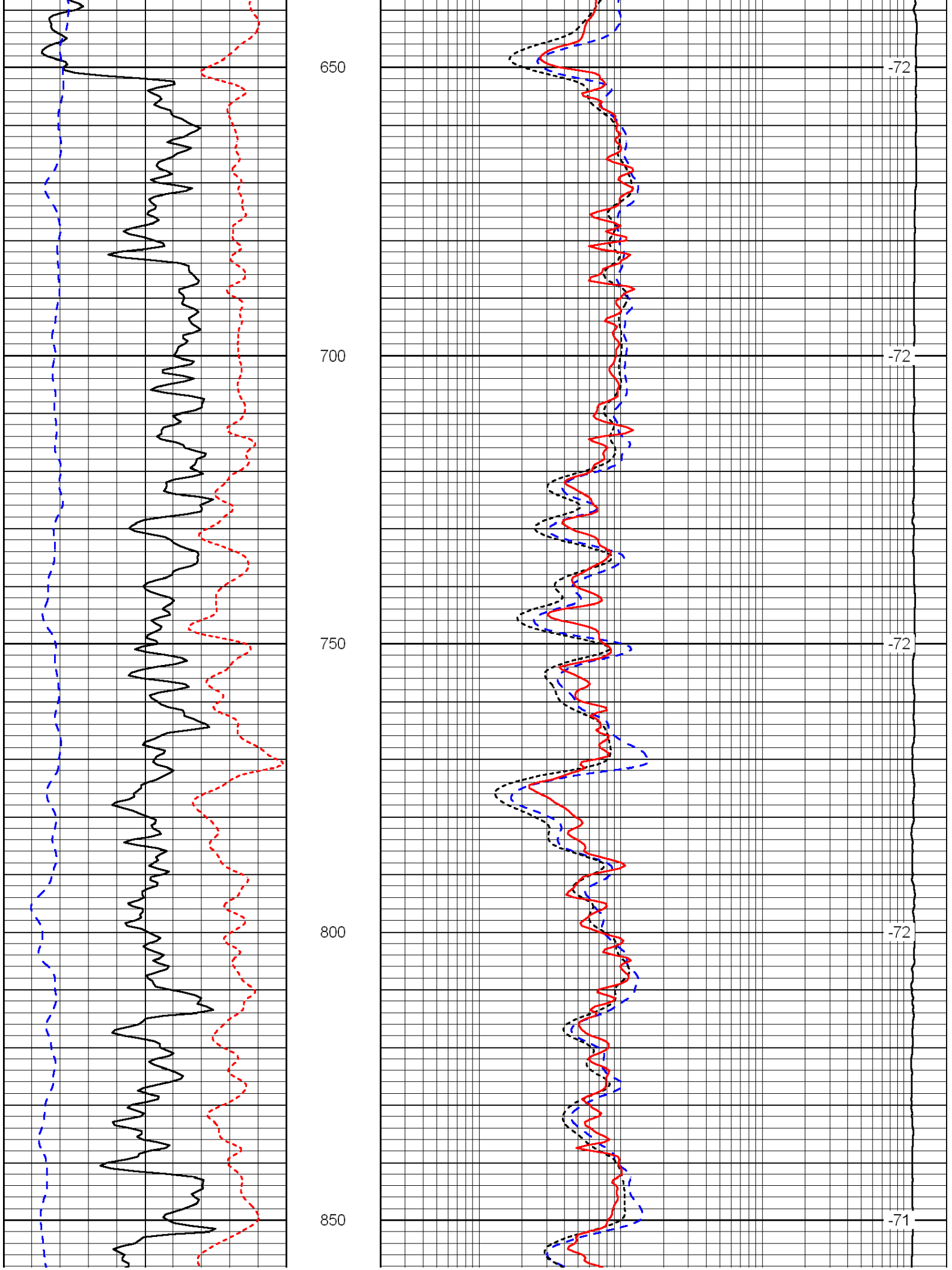
-160	Rxo / Rt	40
0.2	Shallow Resistivity	2000
15000	Line Tension	0

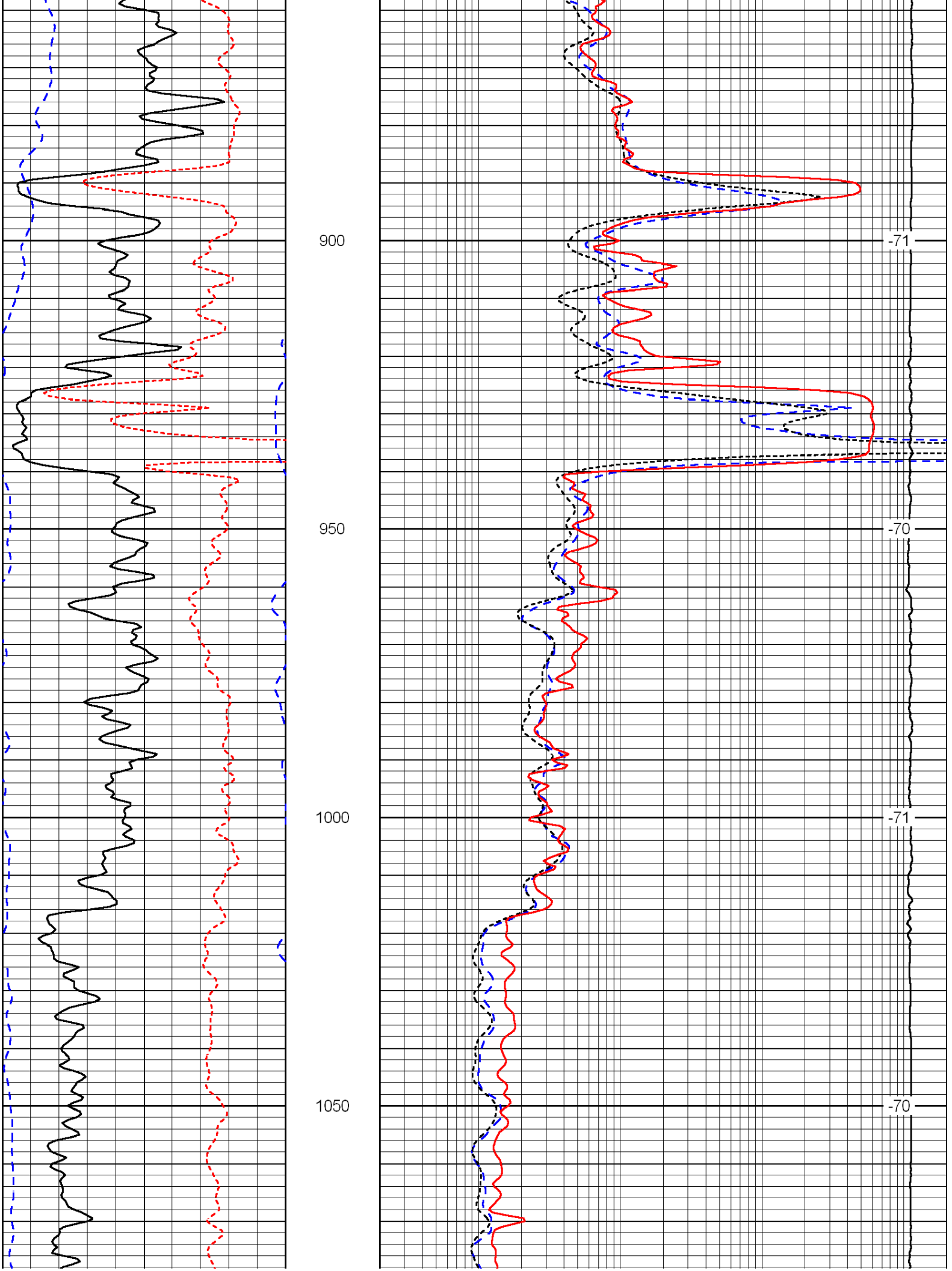
LSPD

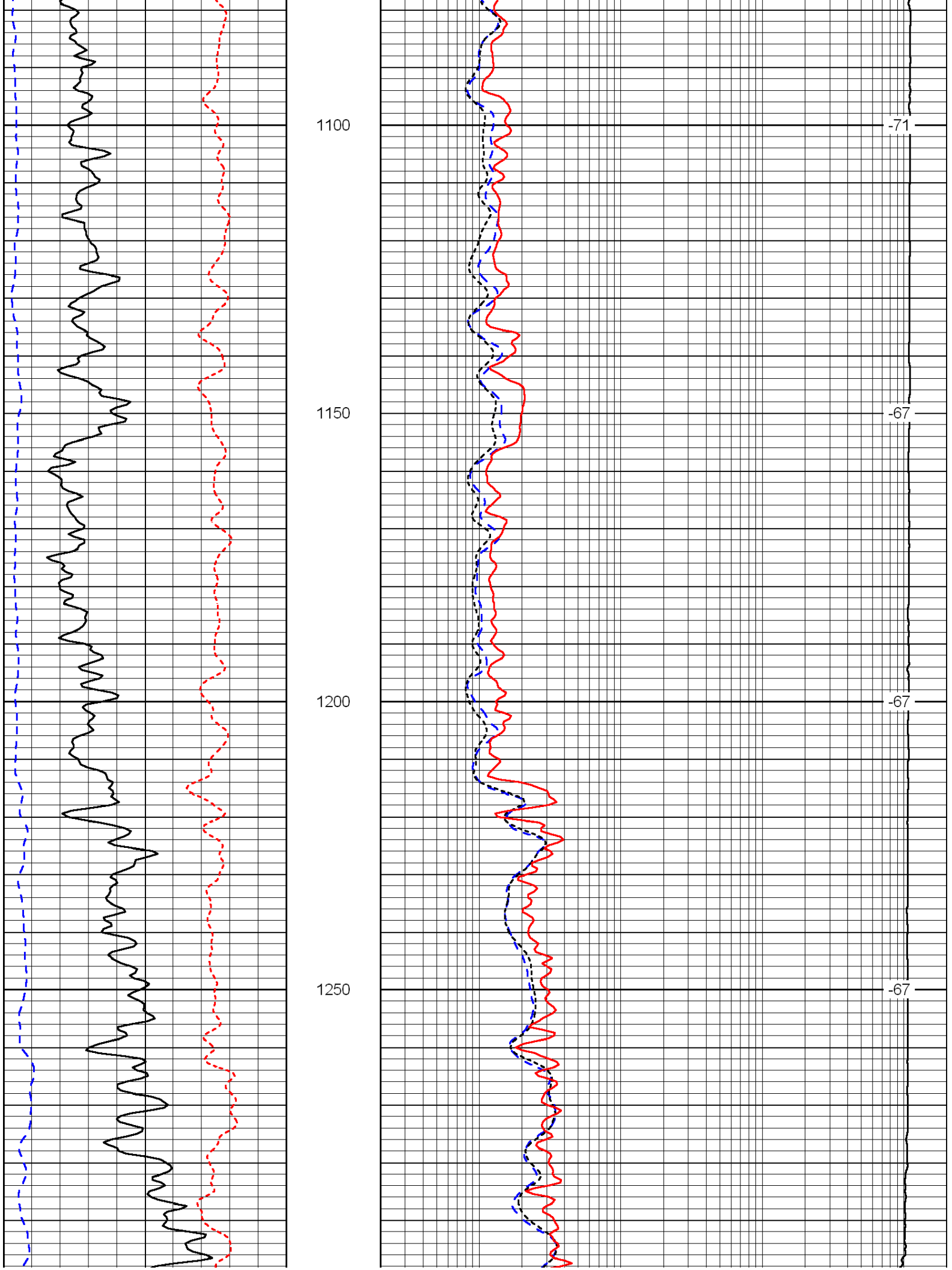


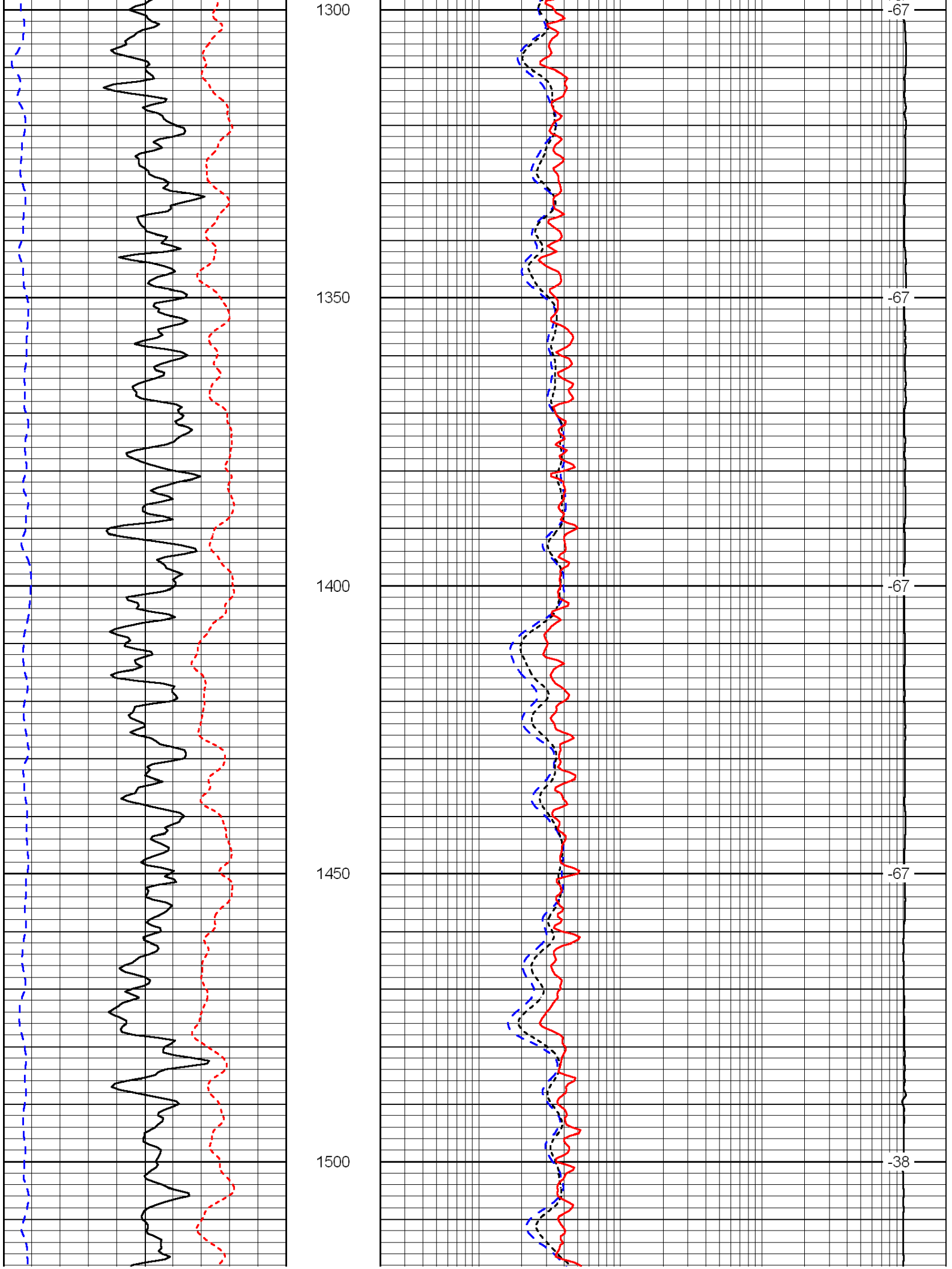

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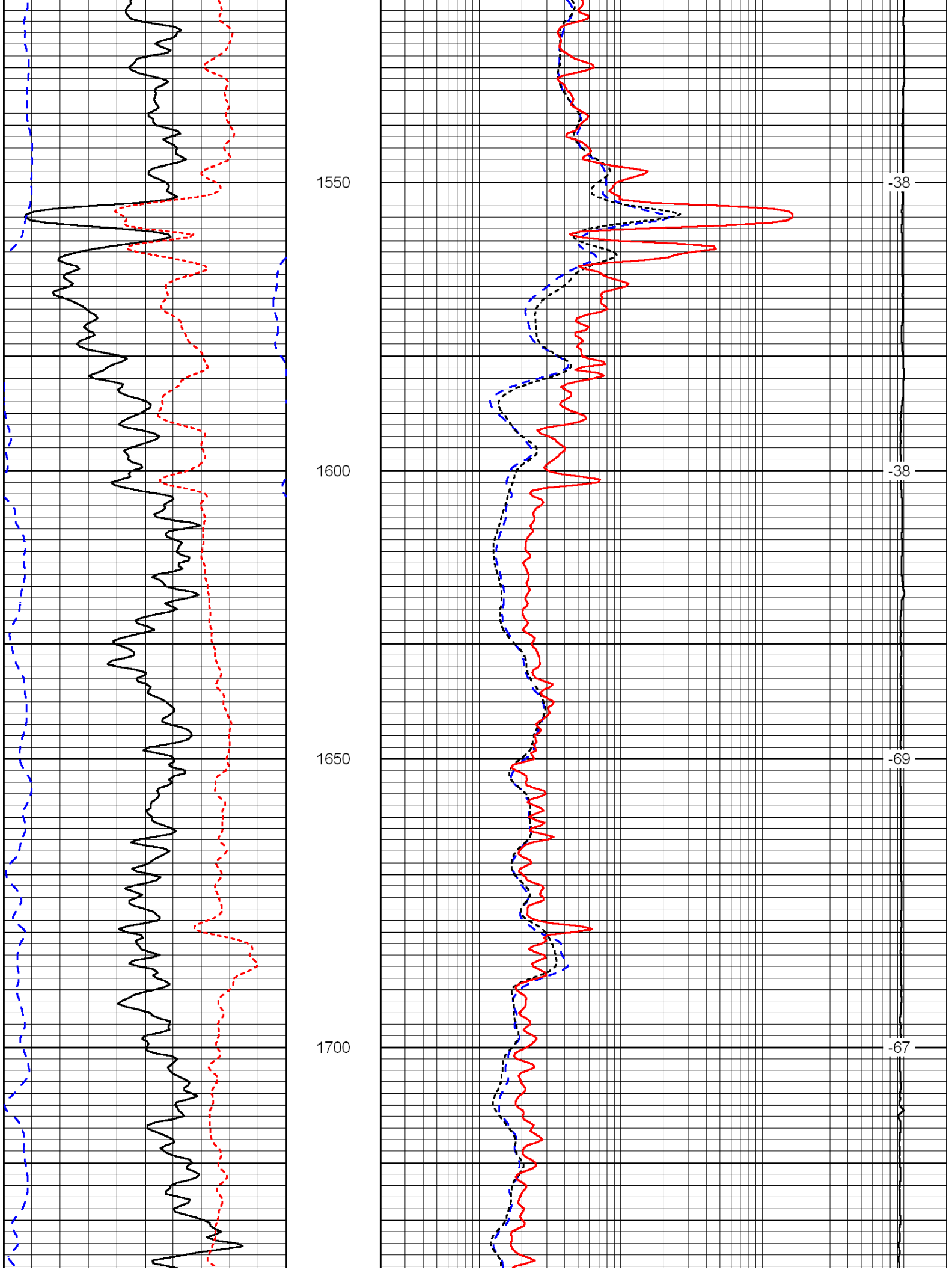

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-72
-72
-72

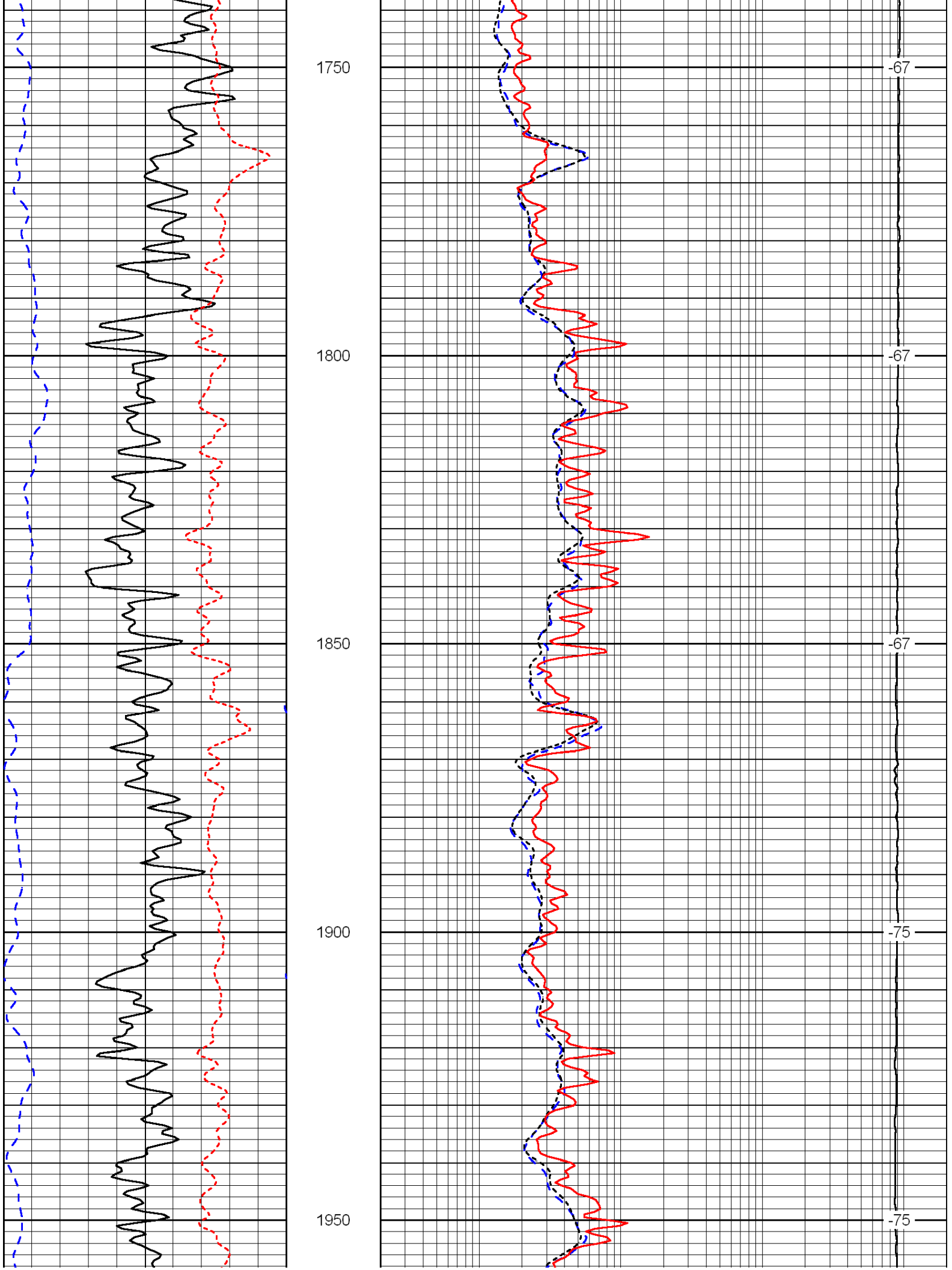

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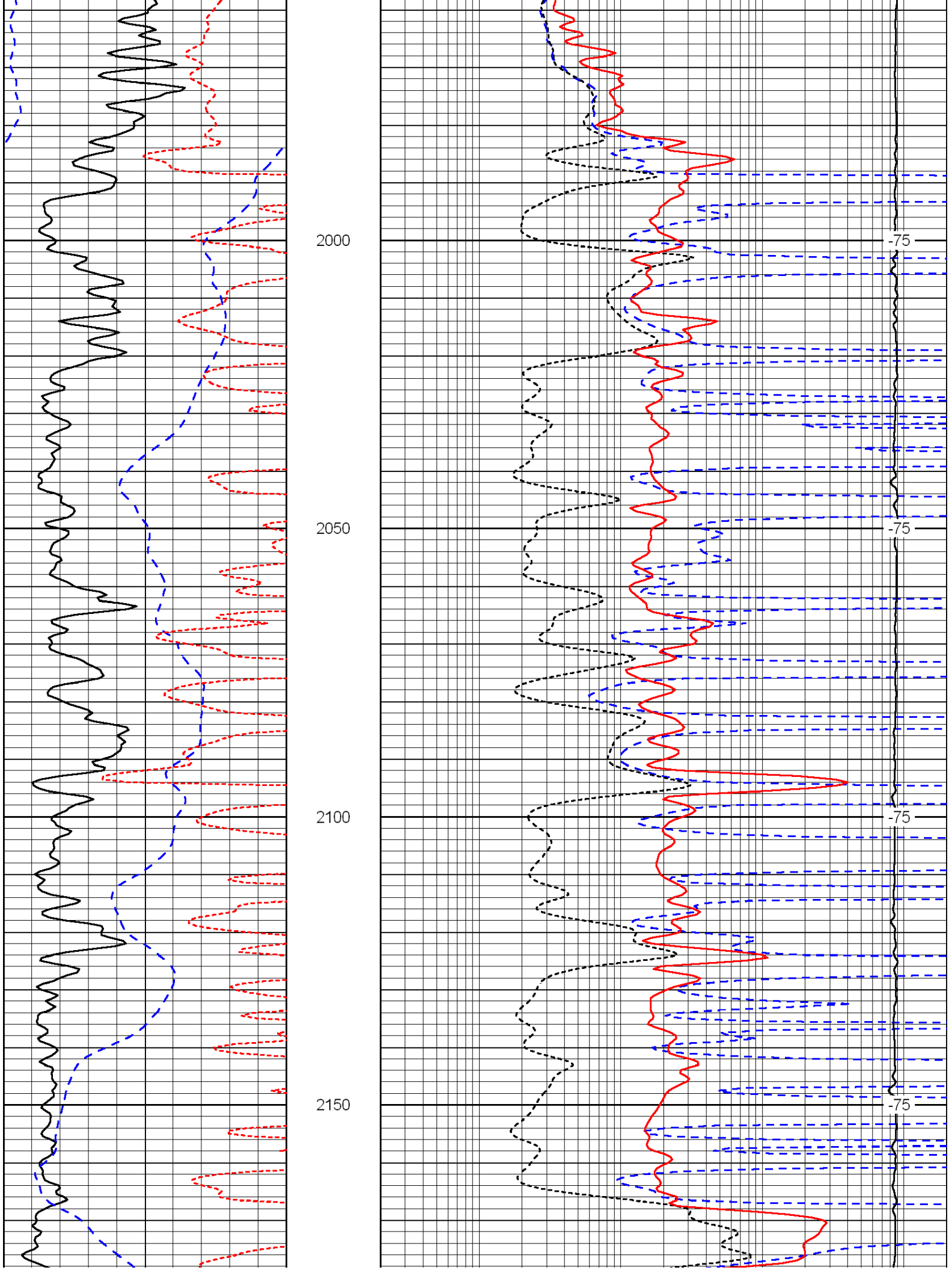

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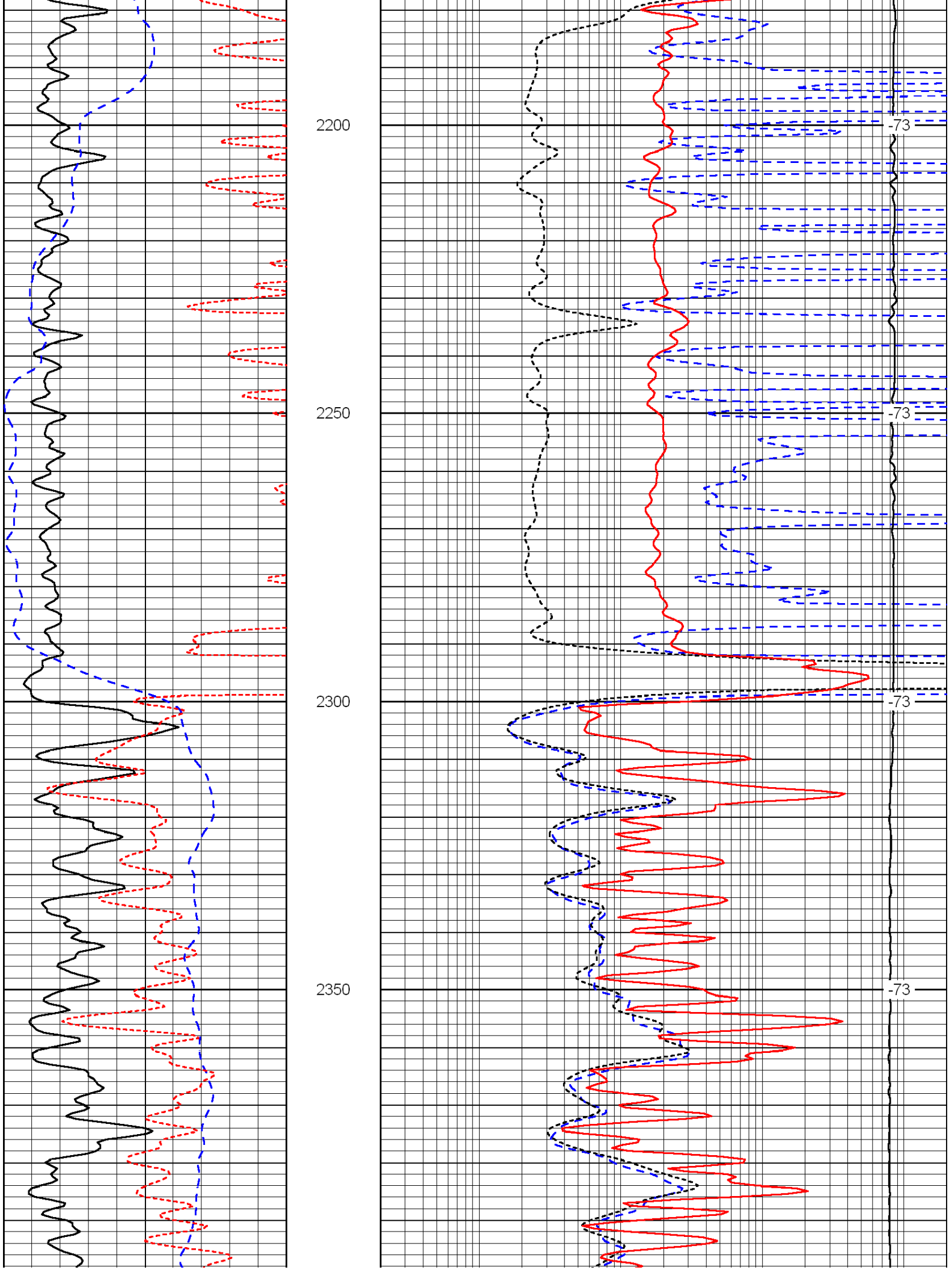

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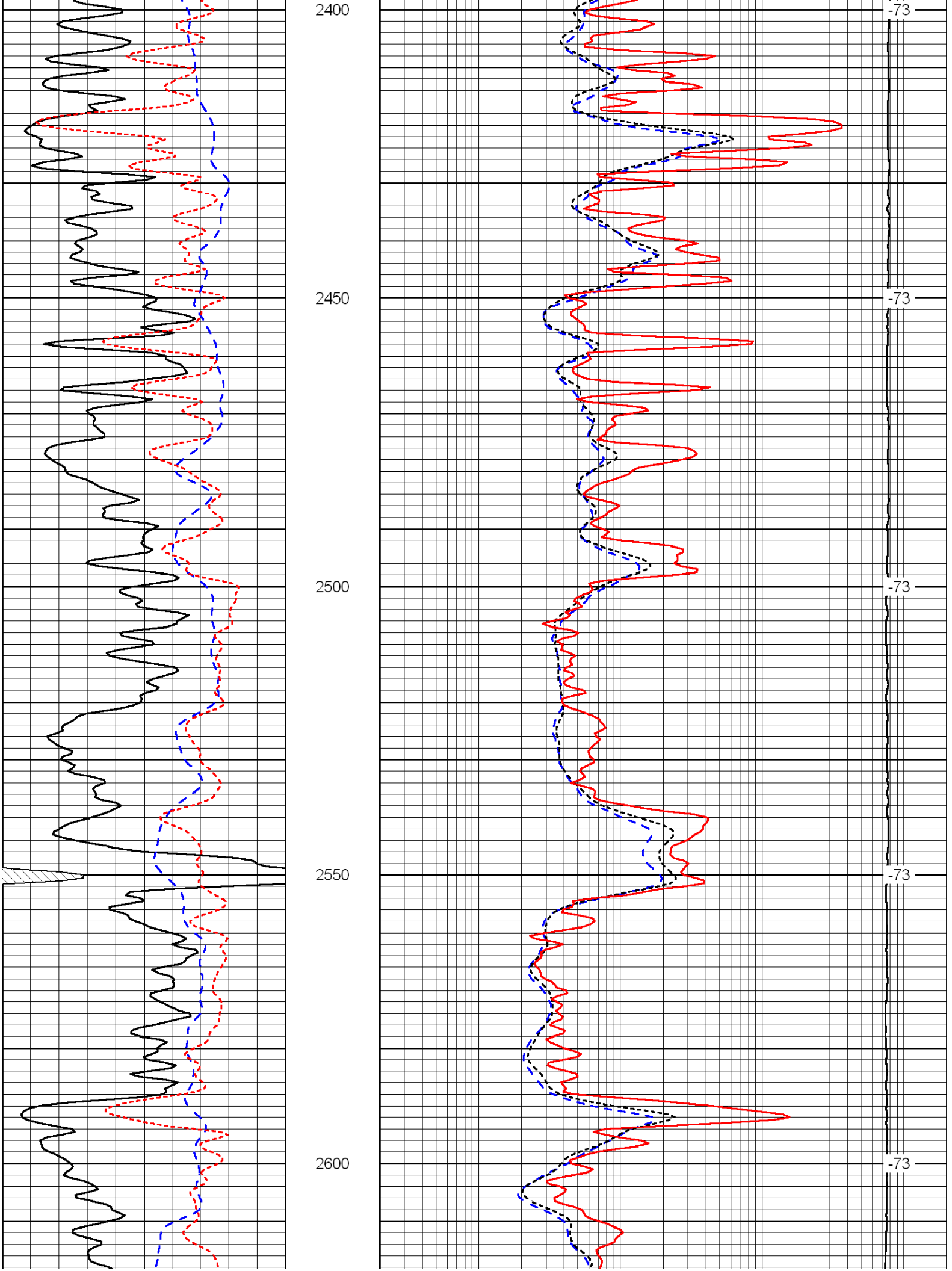

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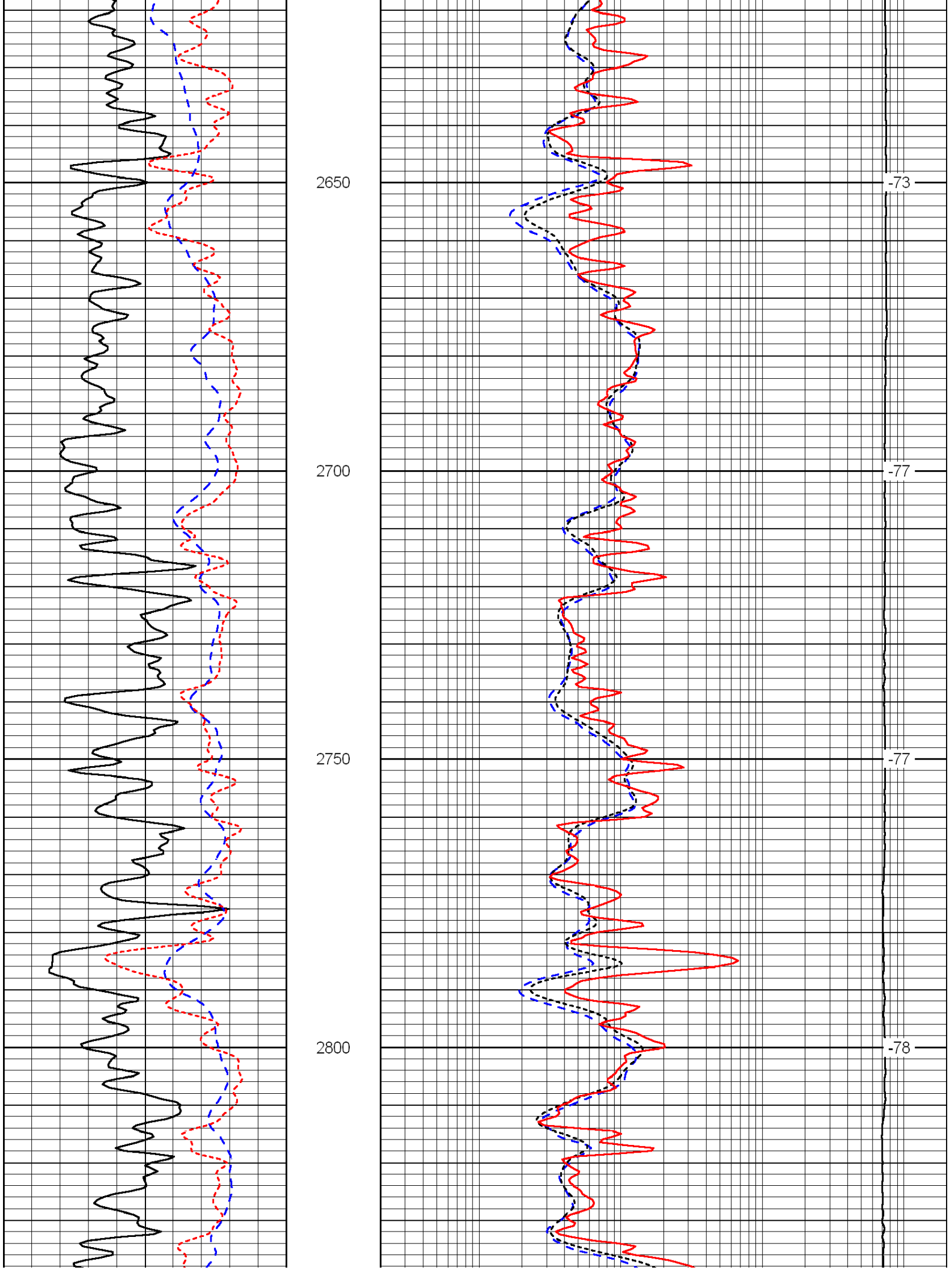

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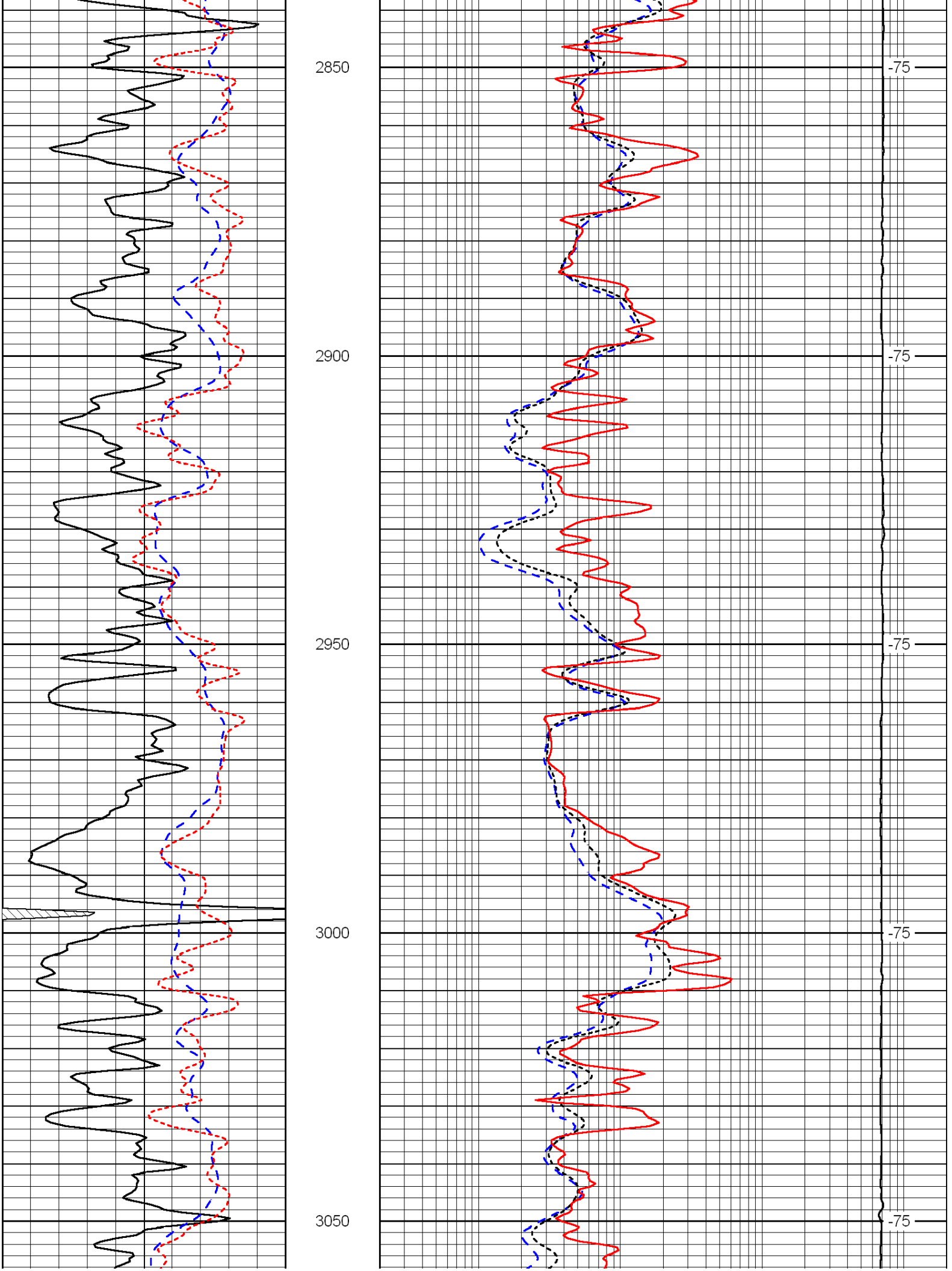

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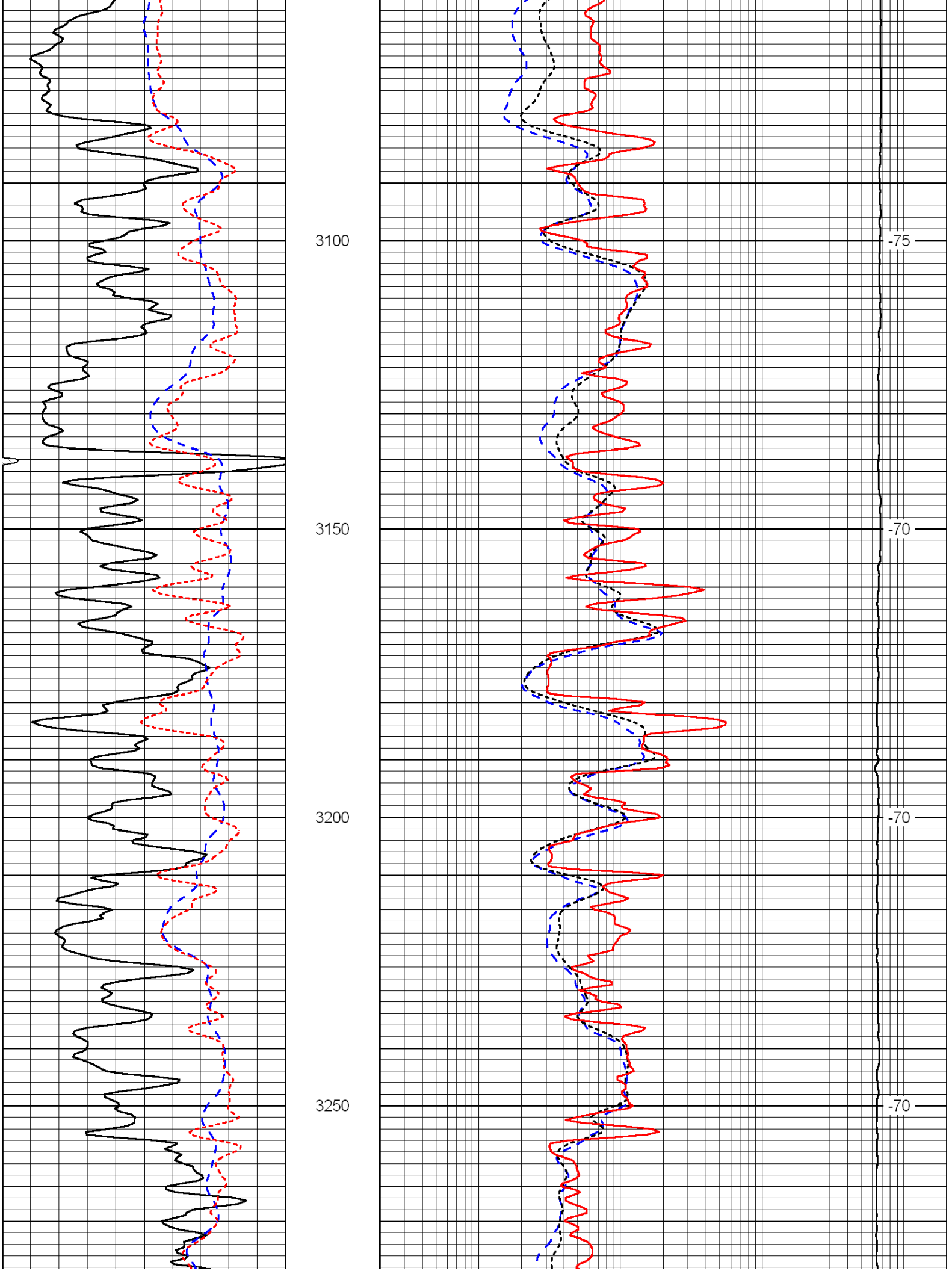

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-75
-75
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-75

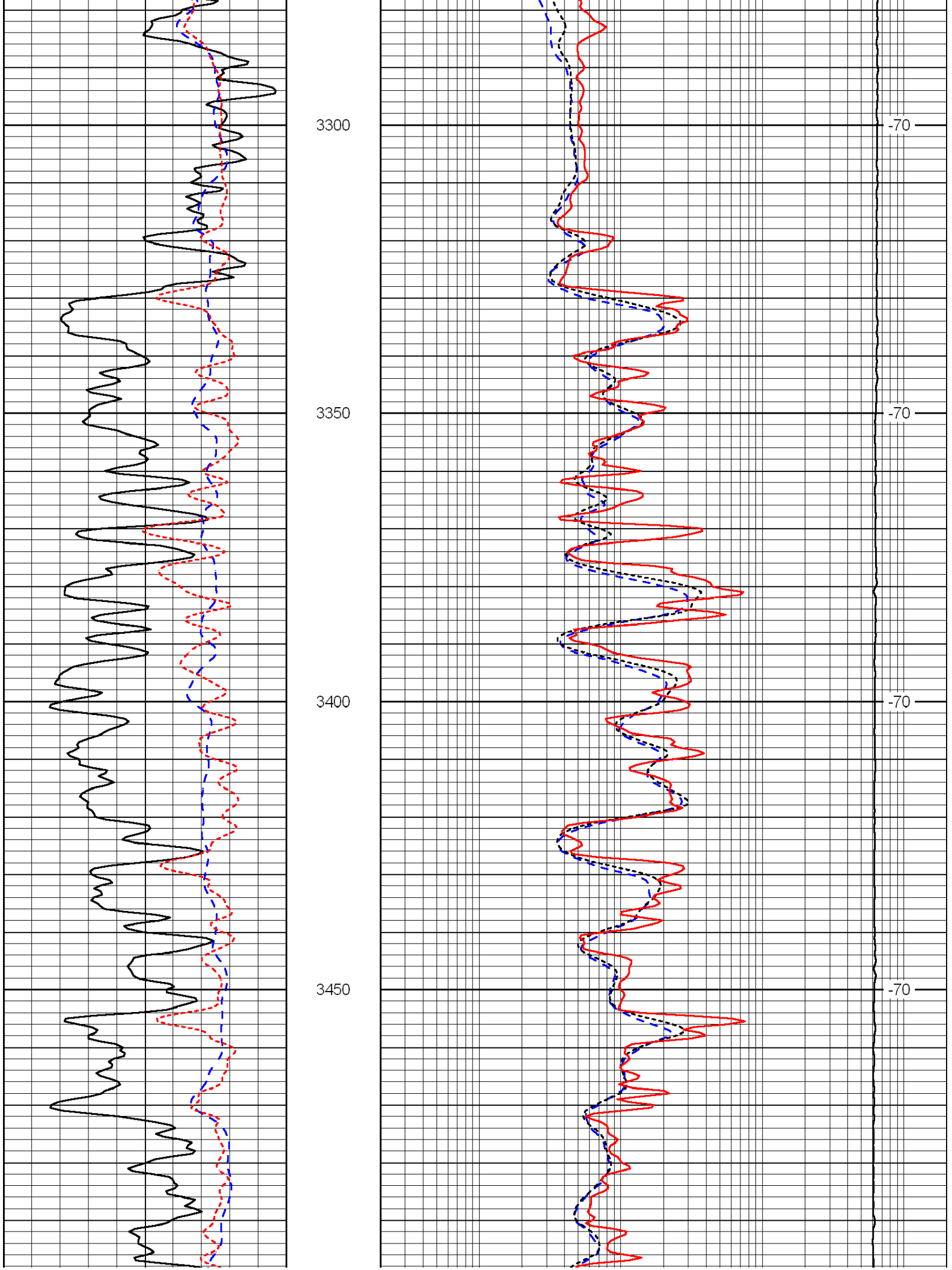

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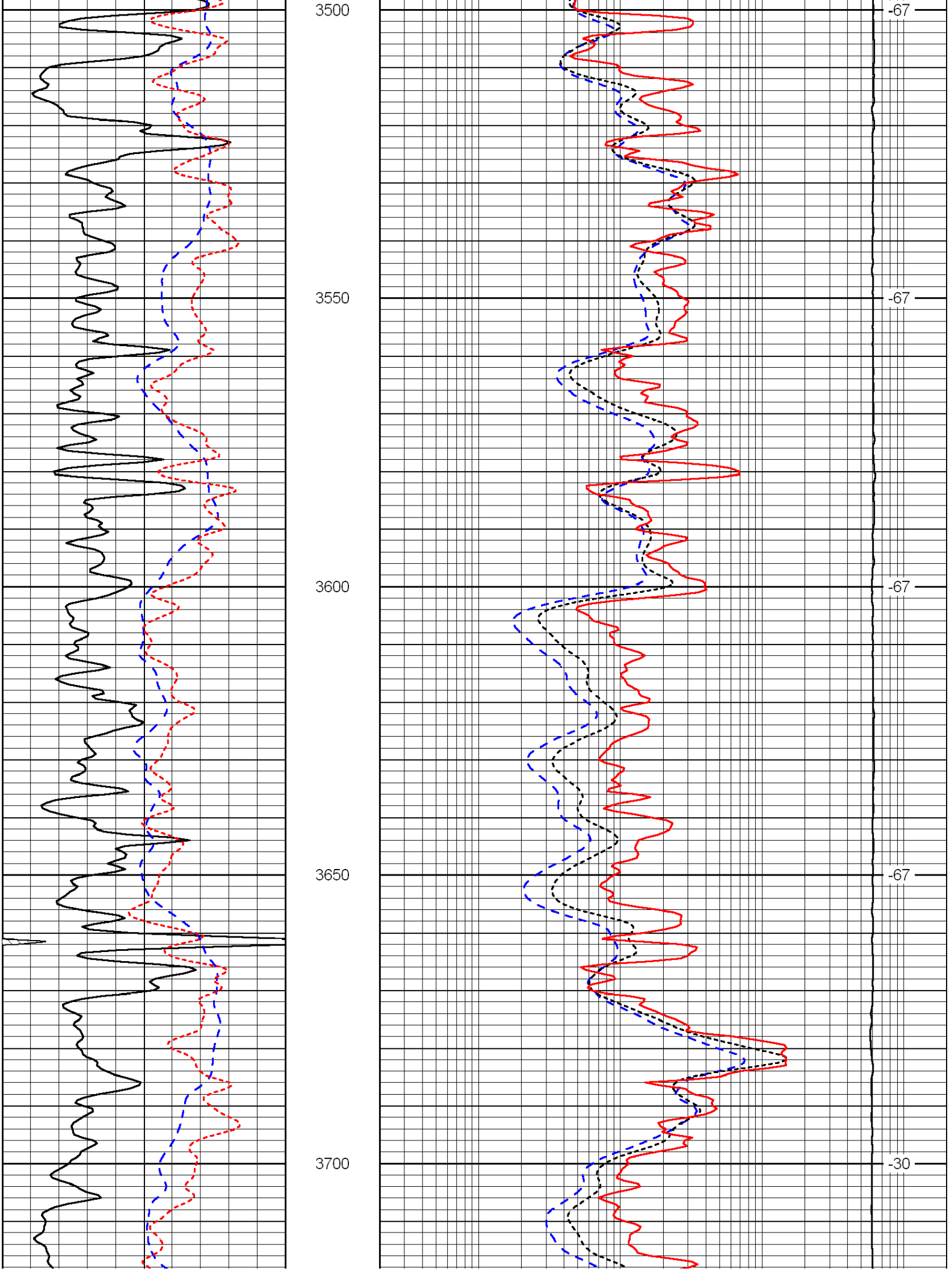

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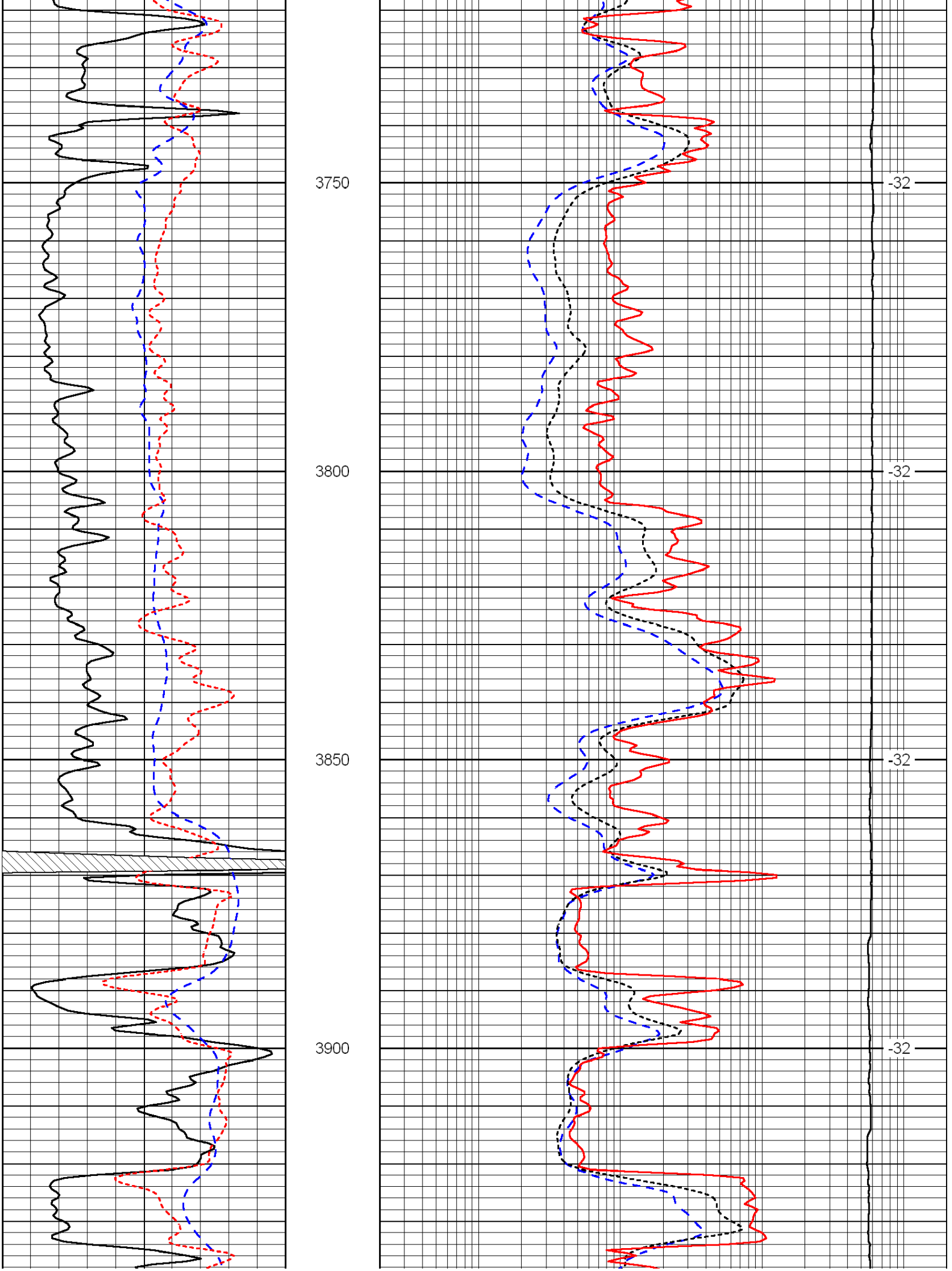

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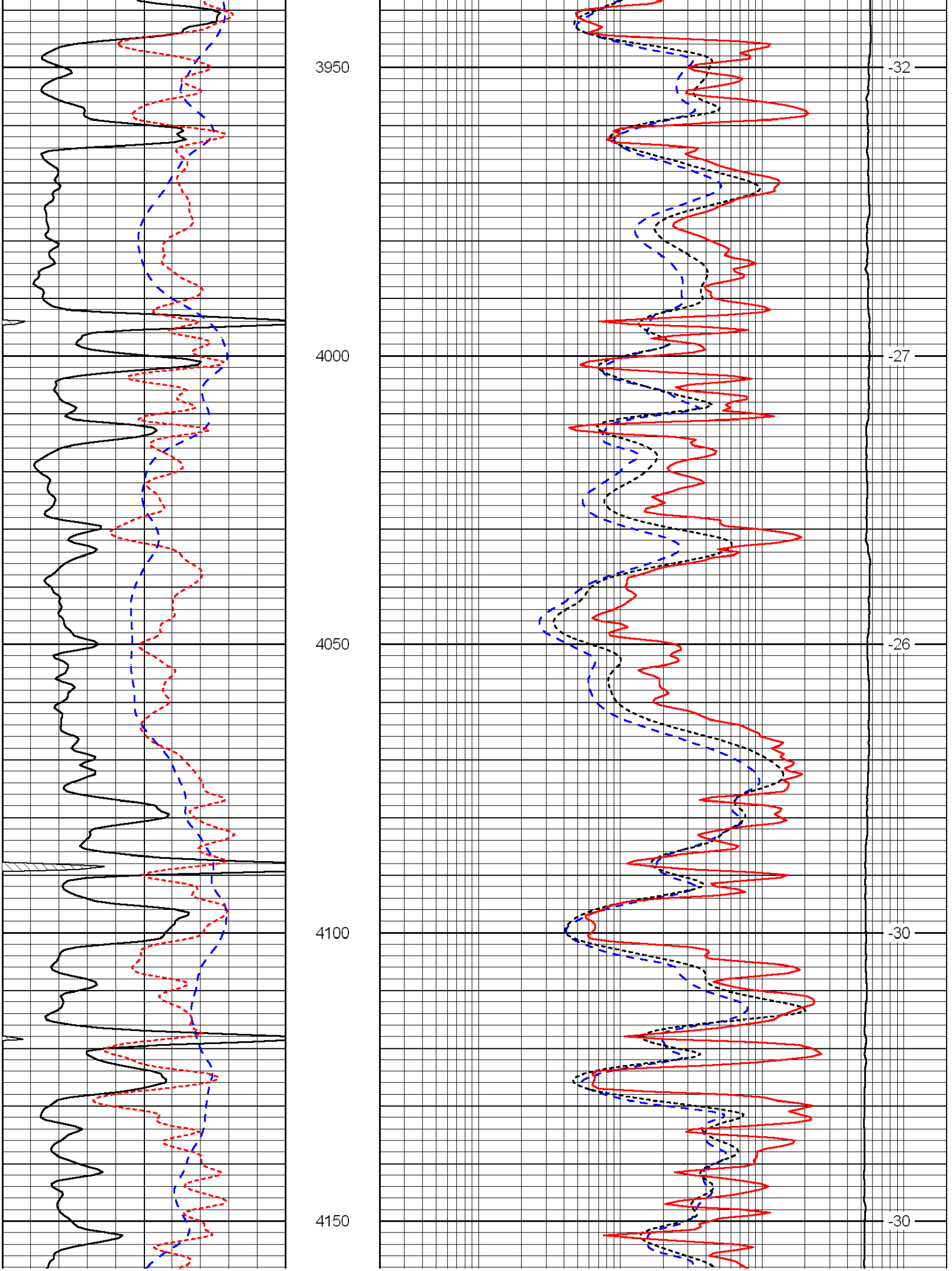

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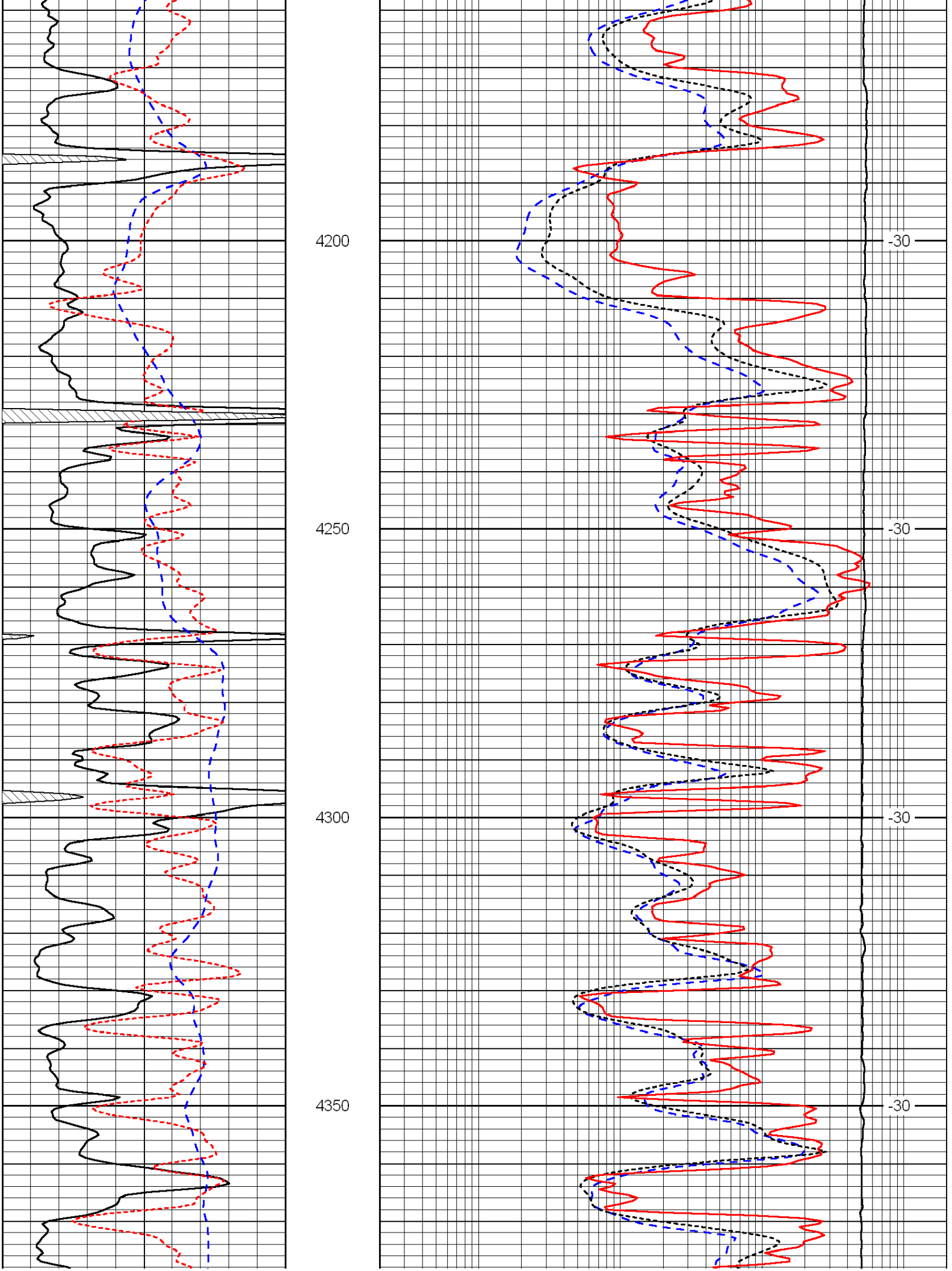

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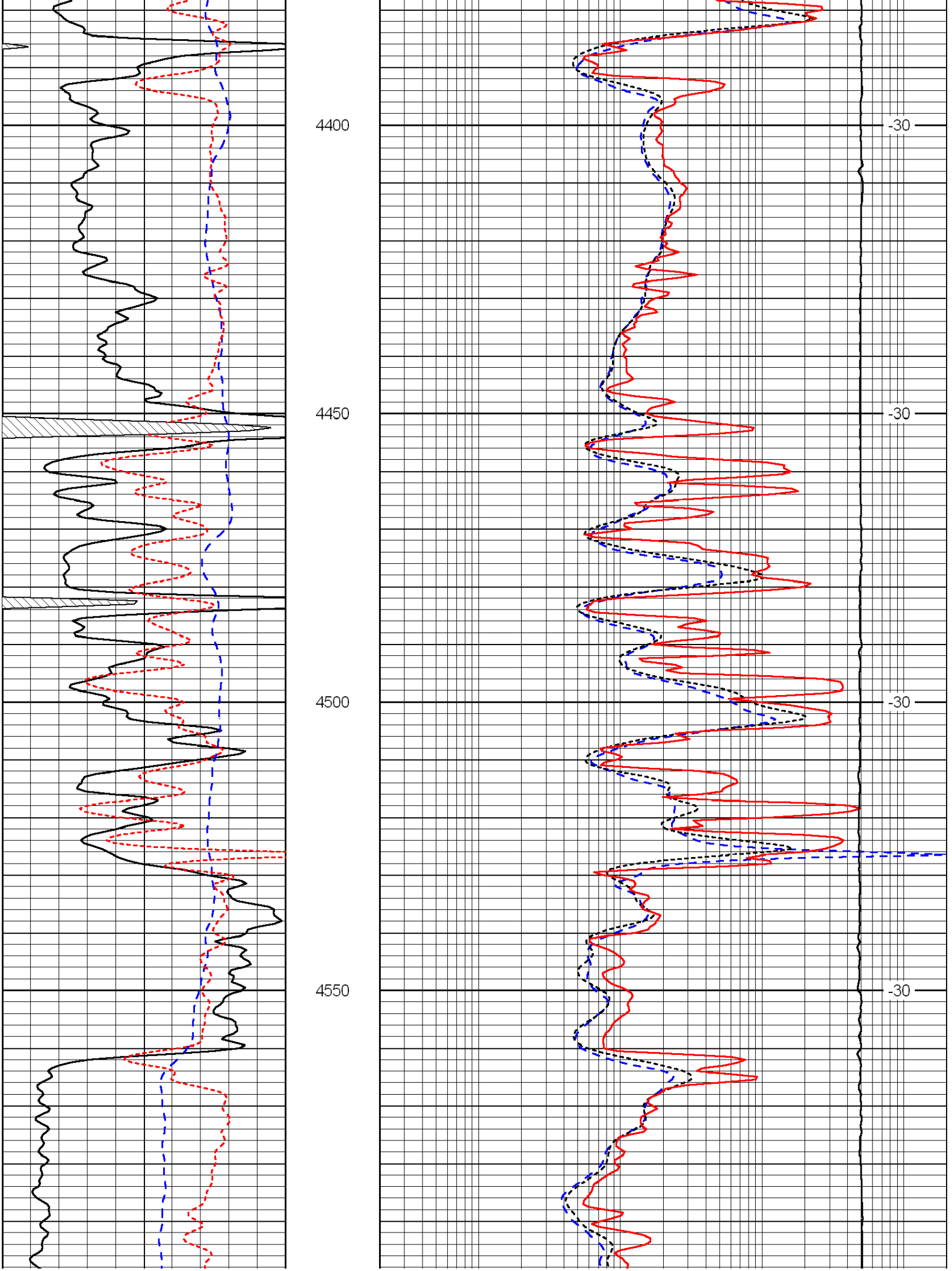

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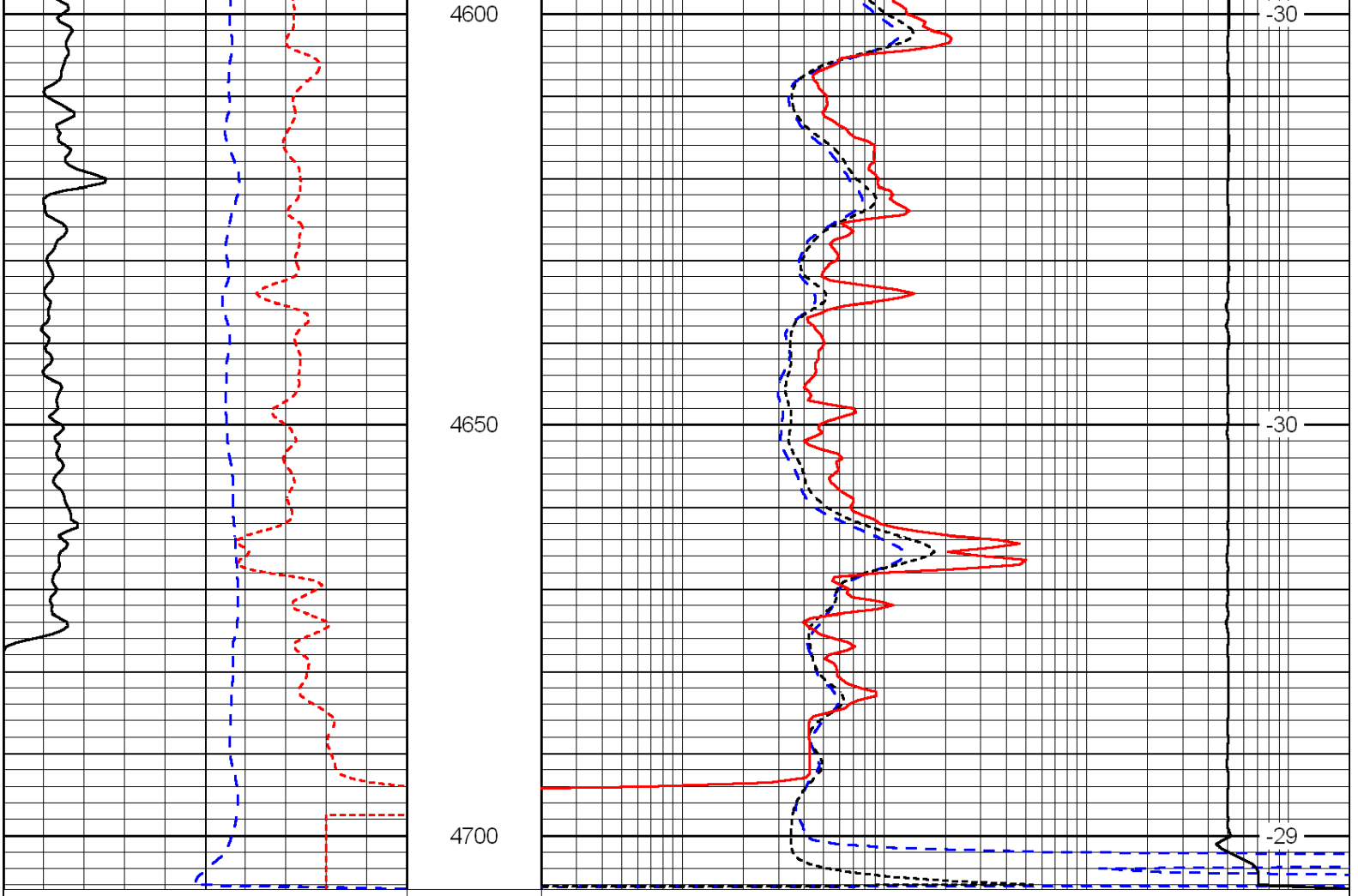

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4200
4250
4300
4350
-30
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4400
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4500
4550
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-30
-30



0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

LOG-TECH

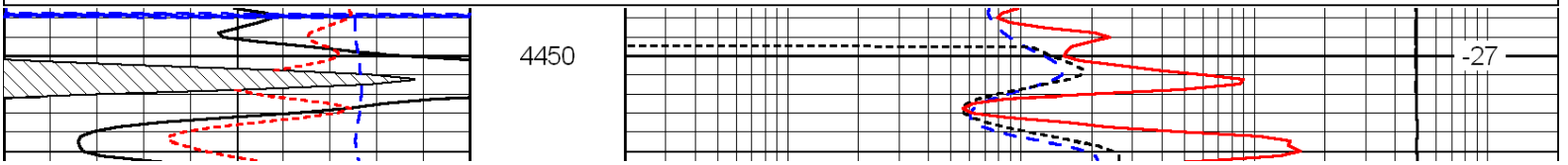
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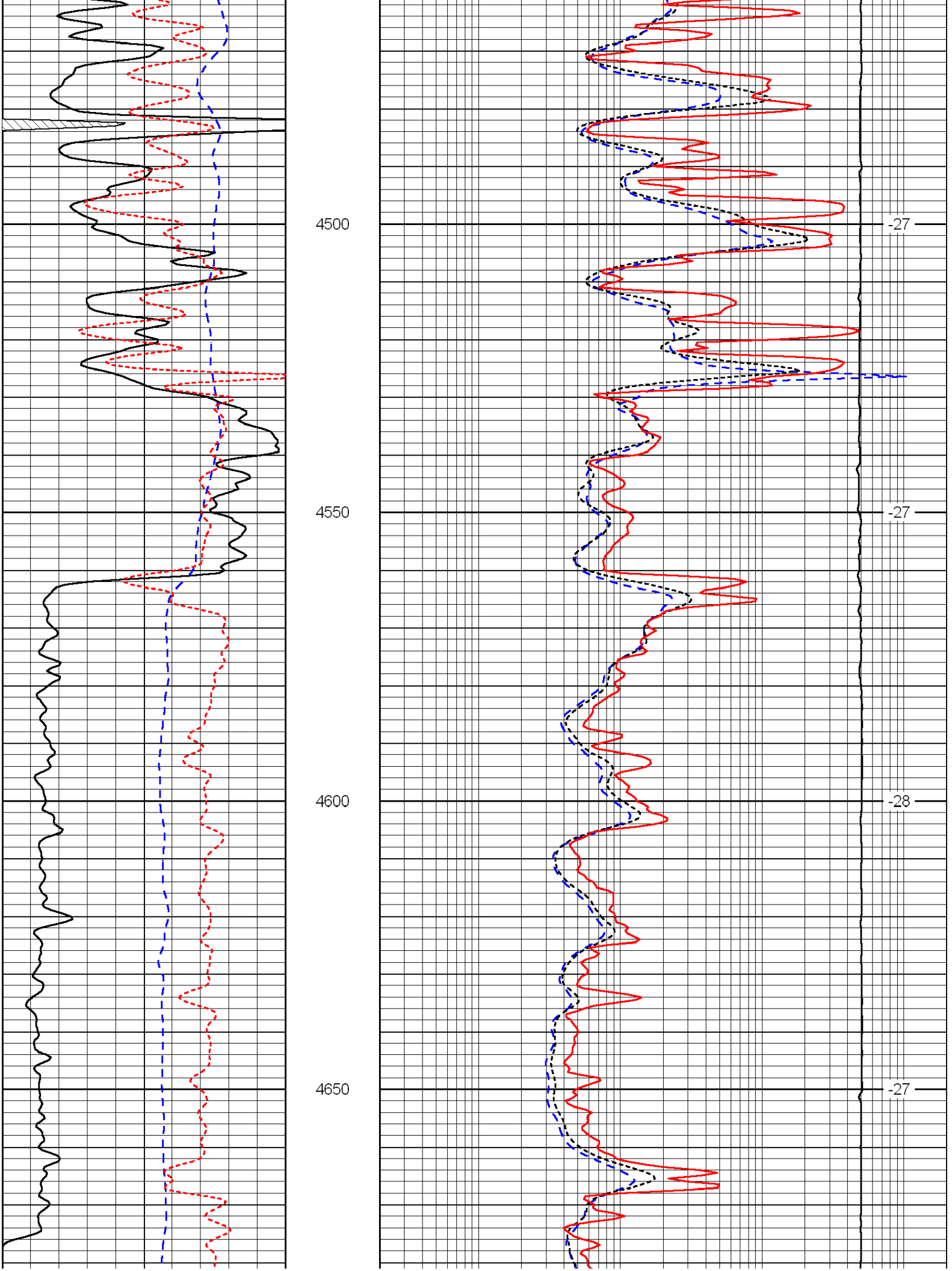
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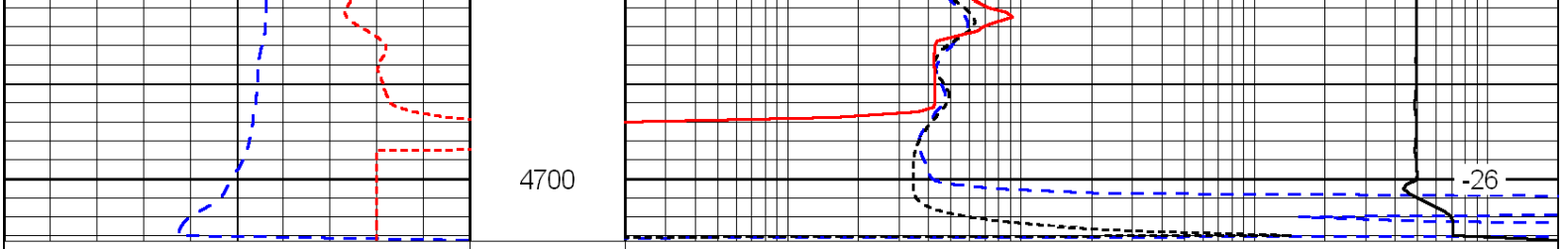
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-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD




4500
4550
4600
4650
-27
-27
-28
-27



0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD