



Pioneer Energy Services

Dual Induction Log

15-145-21,720-00-00

API No.

Company **Toto Energy, LLC**

Well **Greene Machine #23-1**

Field **Carpenter**

County **Pawnee** State **Kansas**

Location

S2-NE-NE-SE
2290' FSL & 330' FEL

Sec: 23 Twp: 23S Rge: 17W

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2077
11 Ft. Above Perm. Datum

Other Services

CNL/CDL
MEL

Date	4/2/2014		
Run Number	One		
Depth Driller	4560		
Depth Logger	4559		
Bottom Logged Interval	4558		
Top Log Interval	250		
Casing Driller	8.625 @ 270		
Casing Logger	264		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7,100		
Density / Viscosity	9.5 78		
pH / Fluid Loss	11.0 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	.27 @ 57		
Rmf @ Meas. Temp	.20 @ 57		
Rmc @ Meas. Temp	.36 @ 57		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.13 @ 122		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	122		
Equipment Number	15		
Location	Hays		
Recorded By	J. Hennickson		
Witnessed By	Sean Deenihan		

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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.pioneerenergy.com
 785 625 3858

Larned Kansas
 South on HWY 19 to D Rd, 3 West, 1/2 South, West Into

Database File: c:\warrior\data\toto_greene machine #23-1\toto_greene_machine_23_1hd.db
 Dataset Pathname: DIL\totostk
 Presentation Format: dil2in
 Dataset Creation: Wed Apr 02 22:35:21 2014
 Charted by: Depth in Feet scaled 1:600

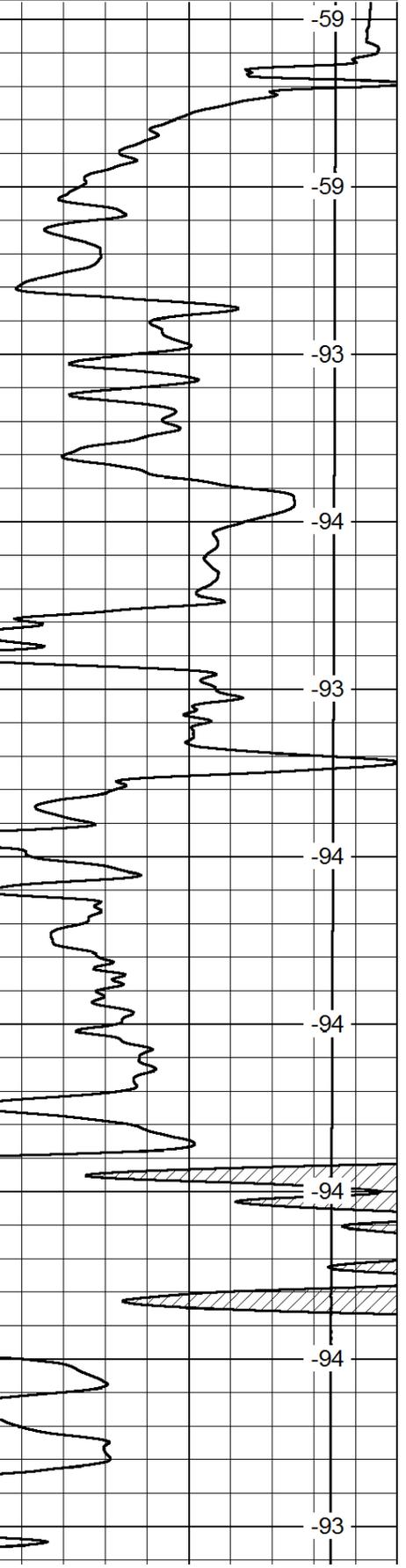
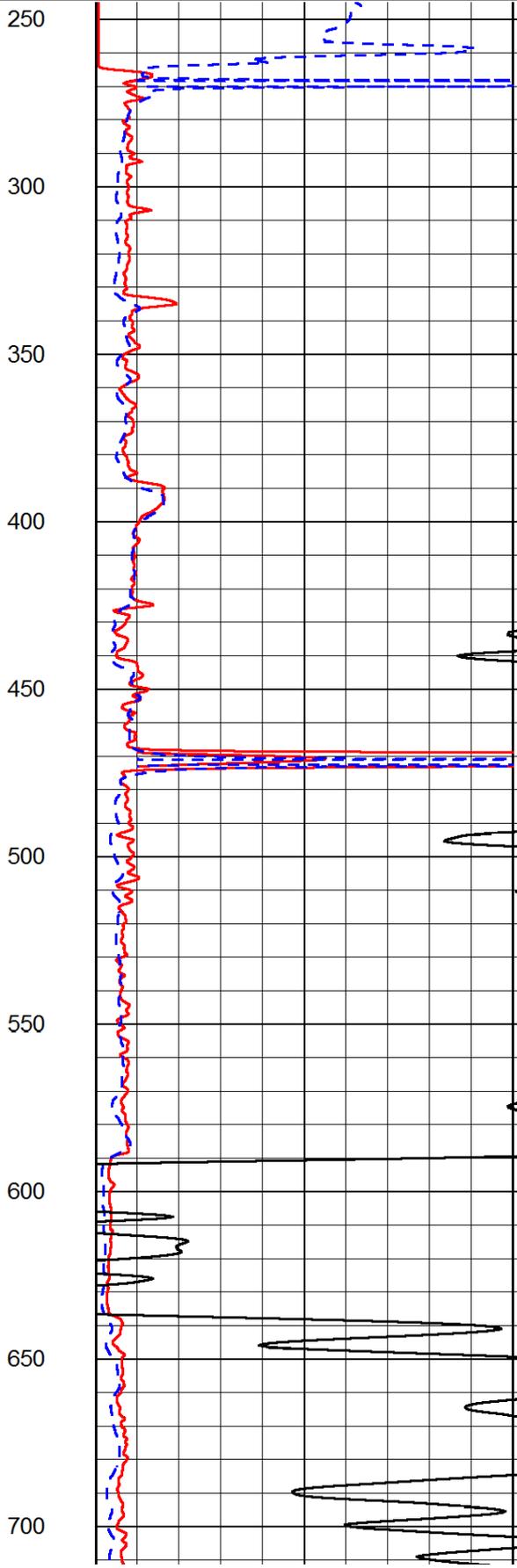
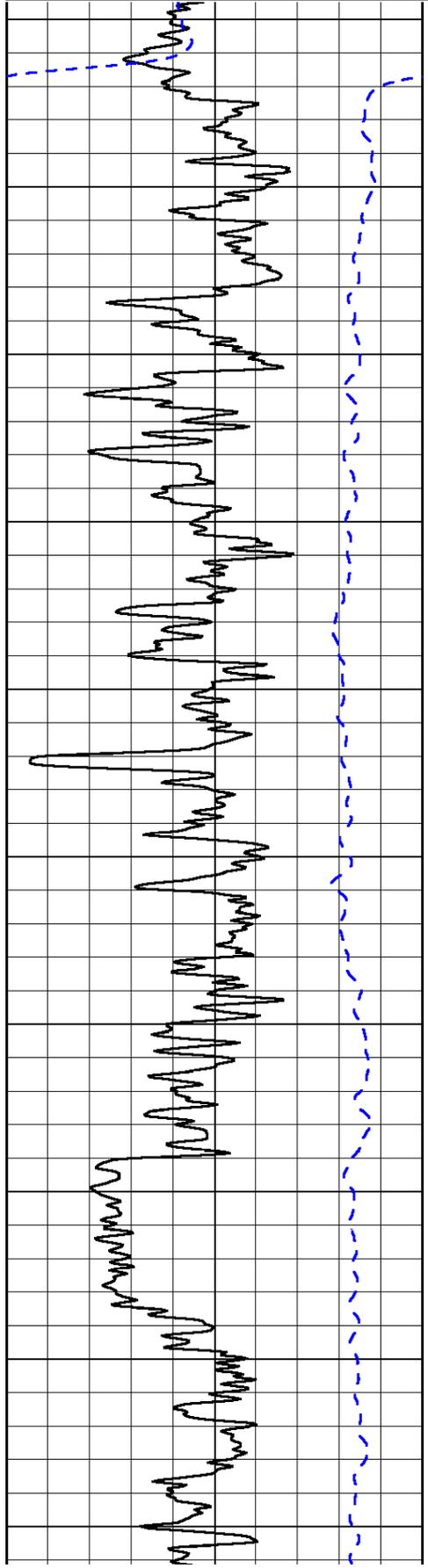
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-200	SP (mV)	0

0	Shallow Resistivity	50
0	Deep Resistivity	50

LSPD

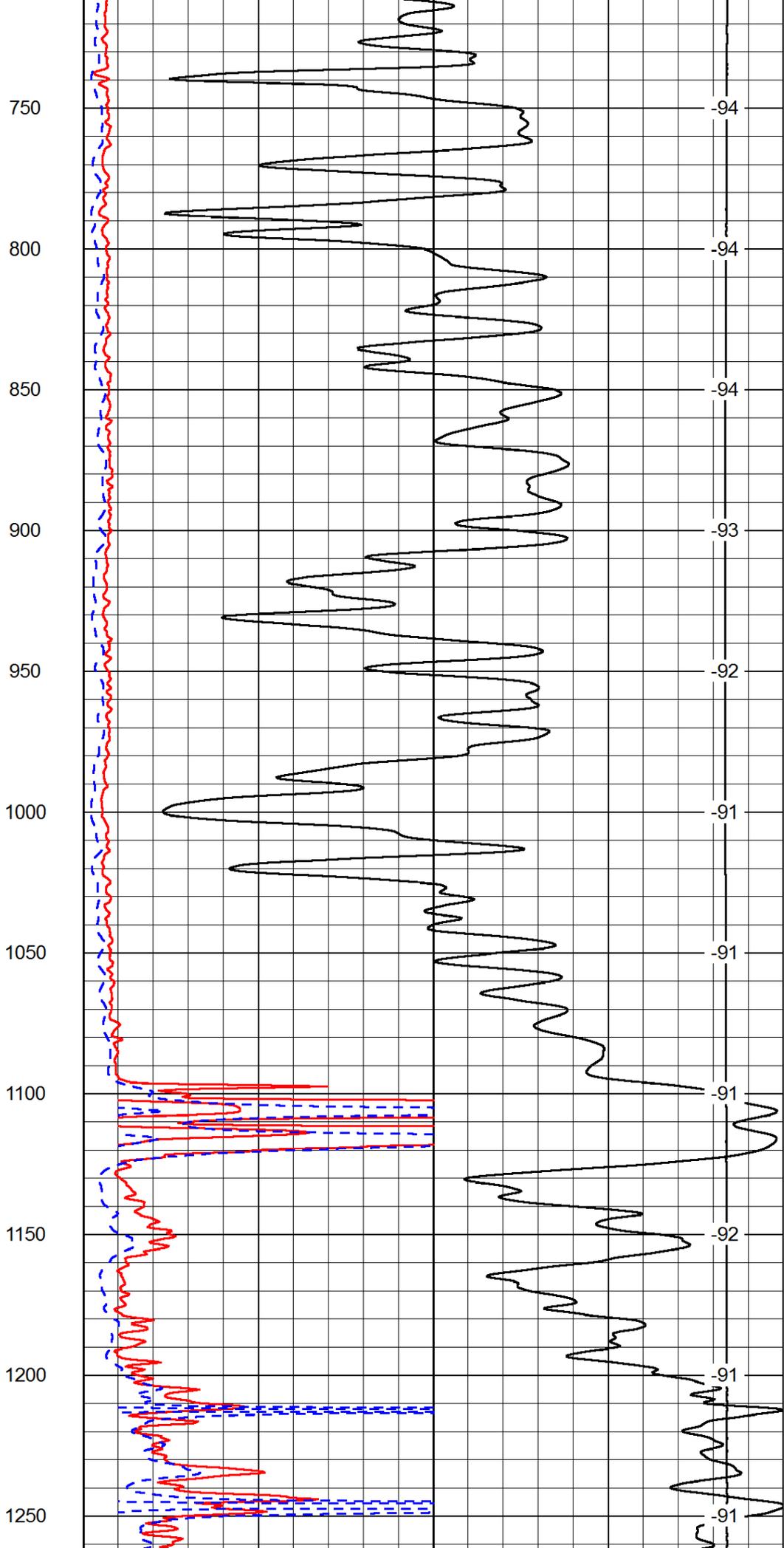
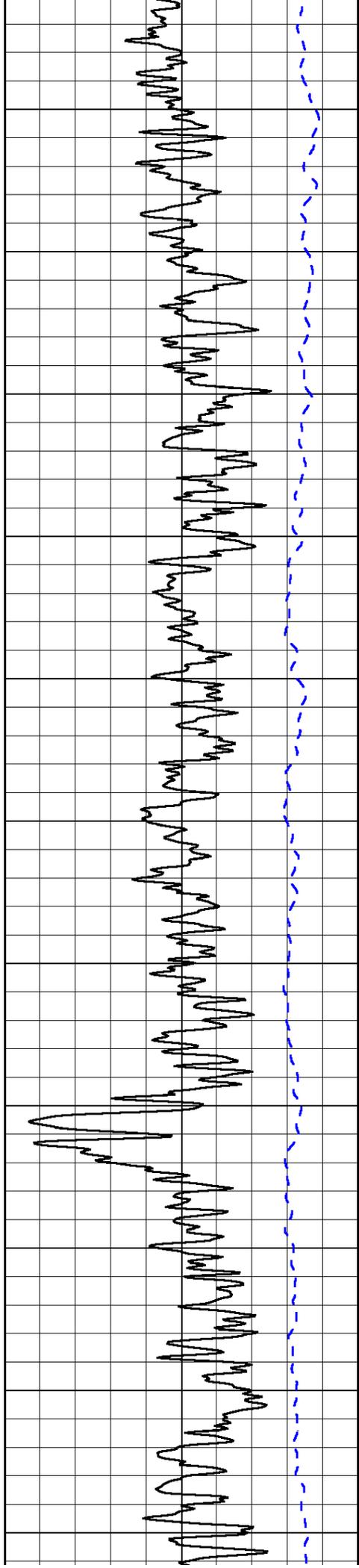
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15000	Line Tension	0

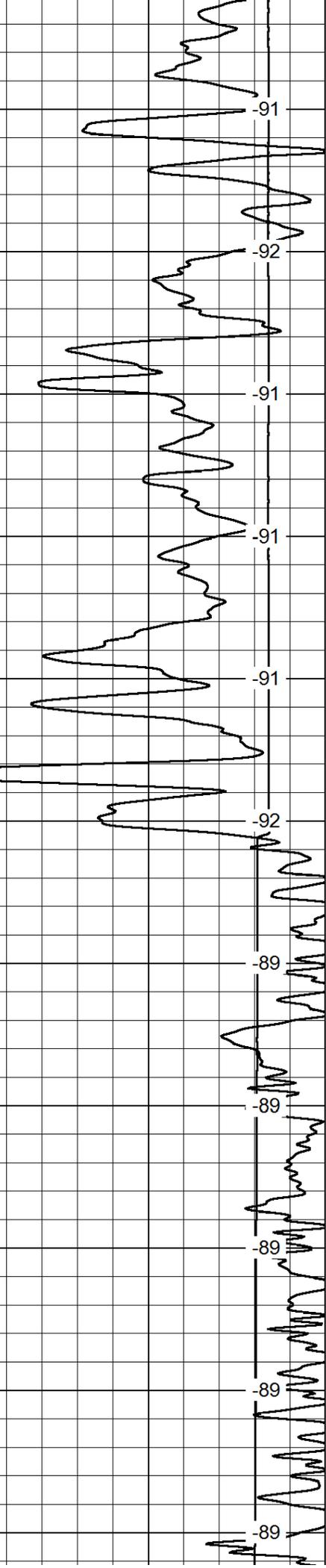
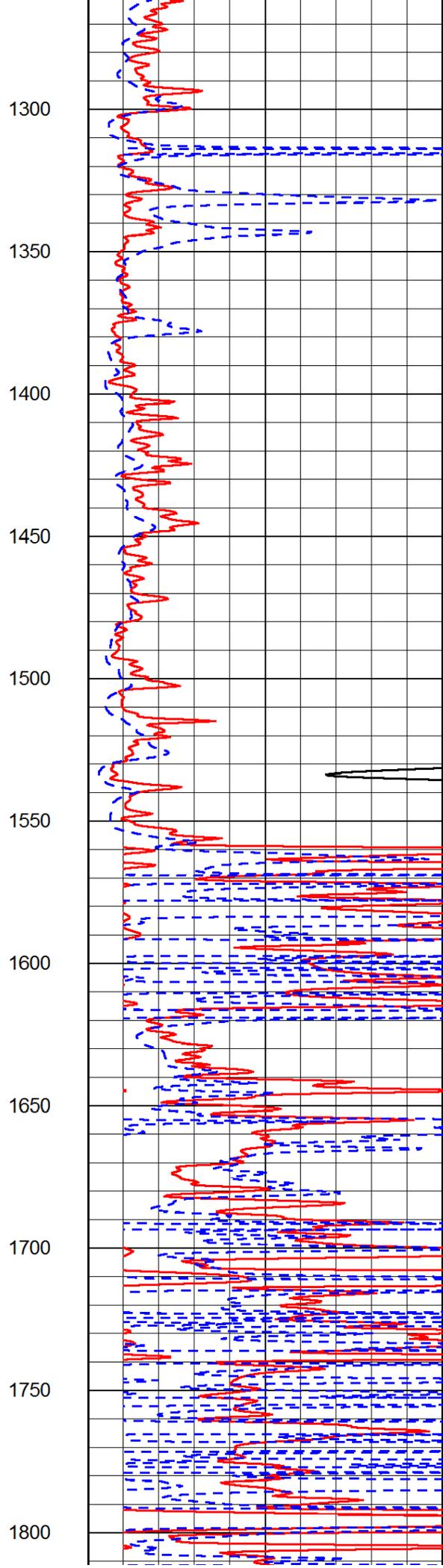
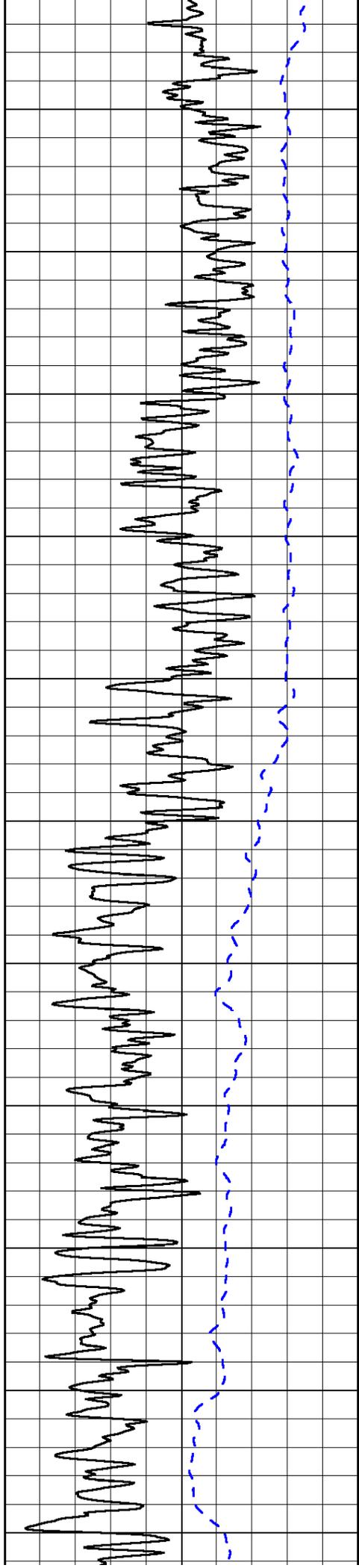
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50	Deep Resistivity	500

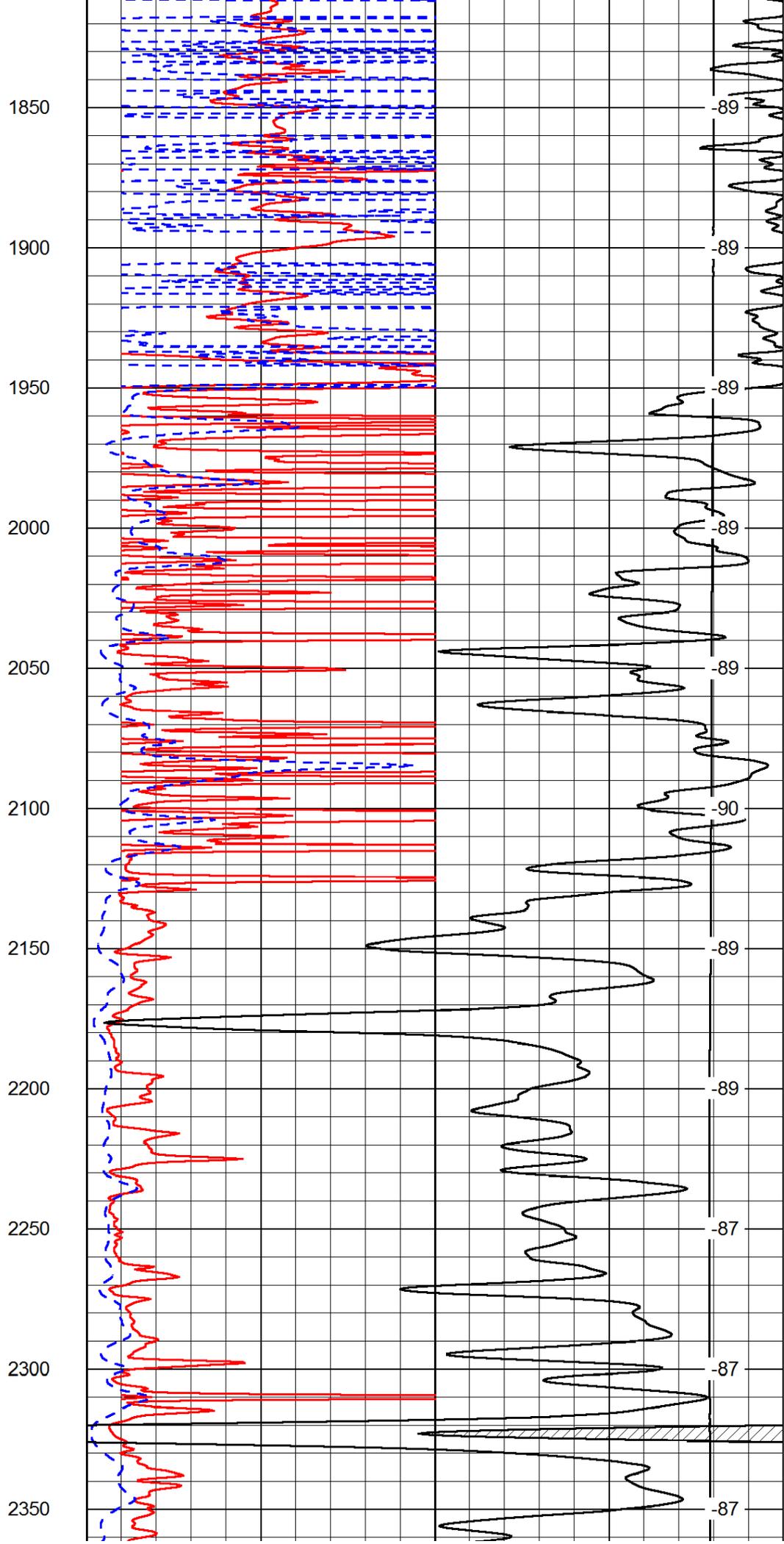
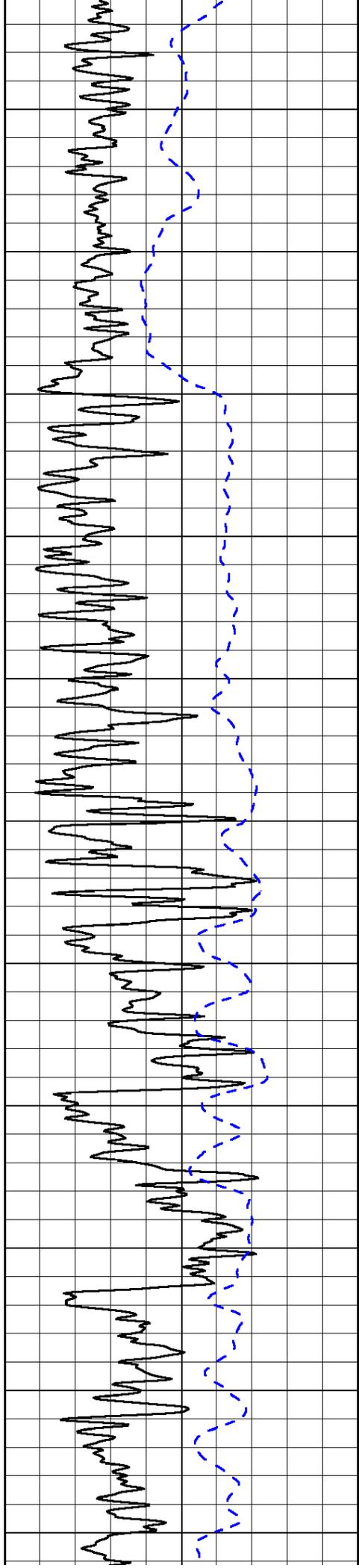


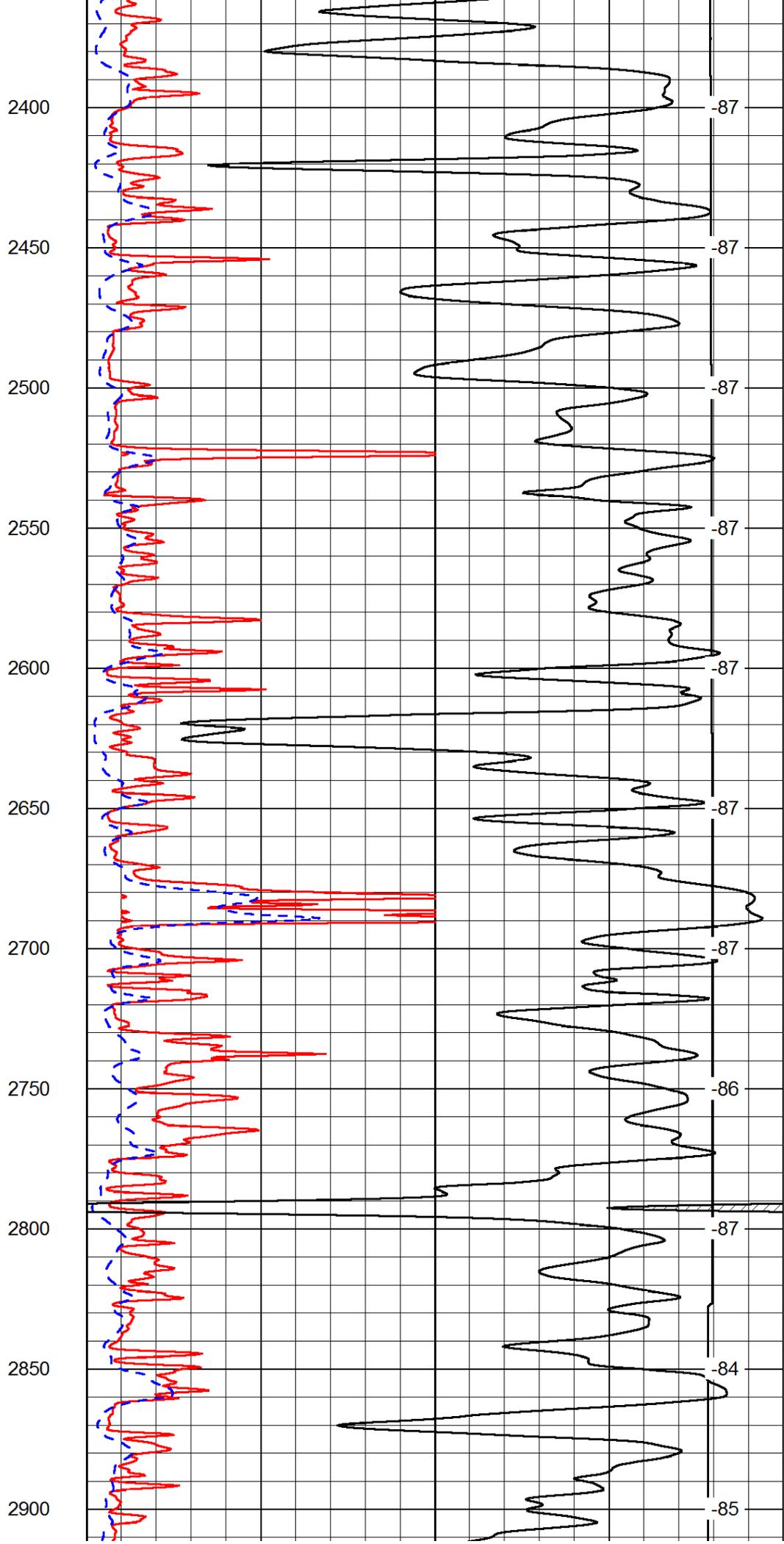
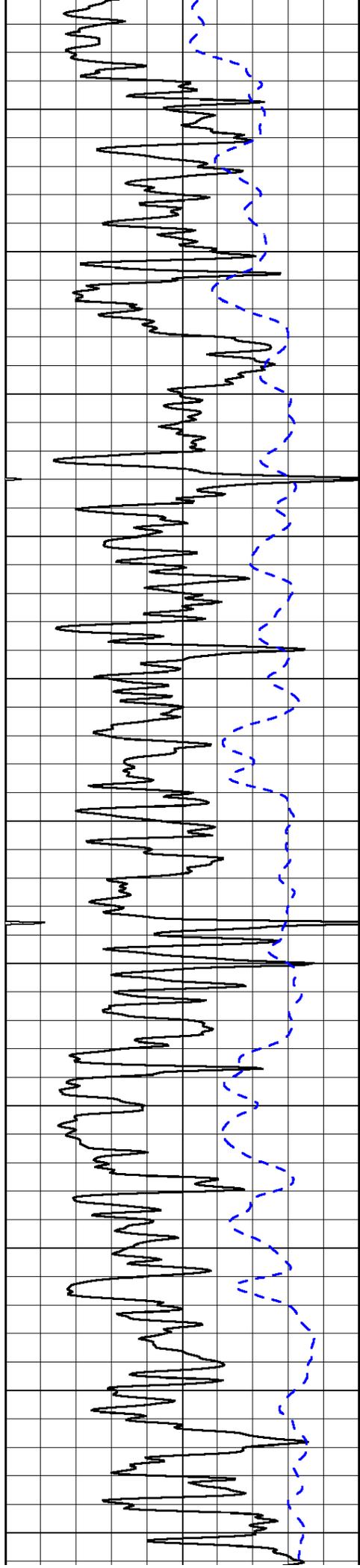
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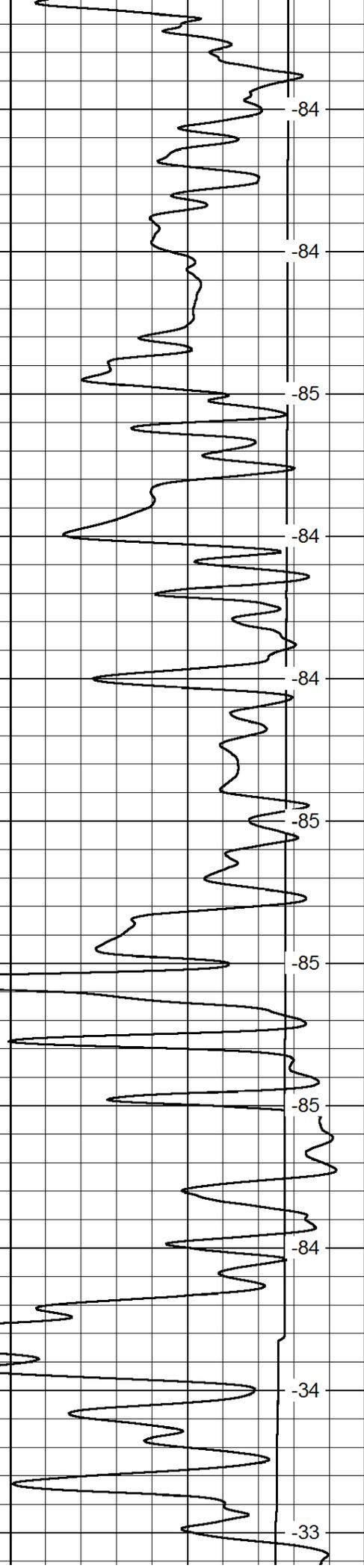
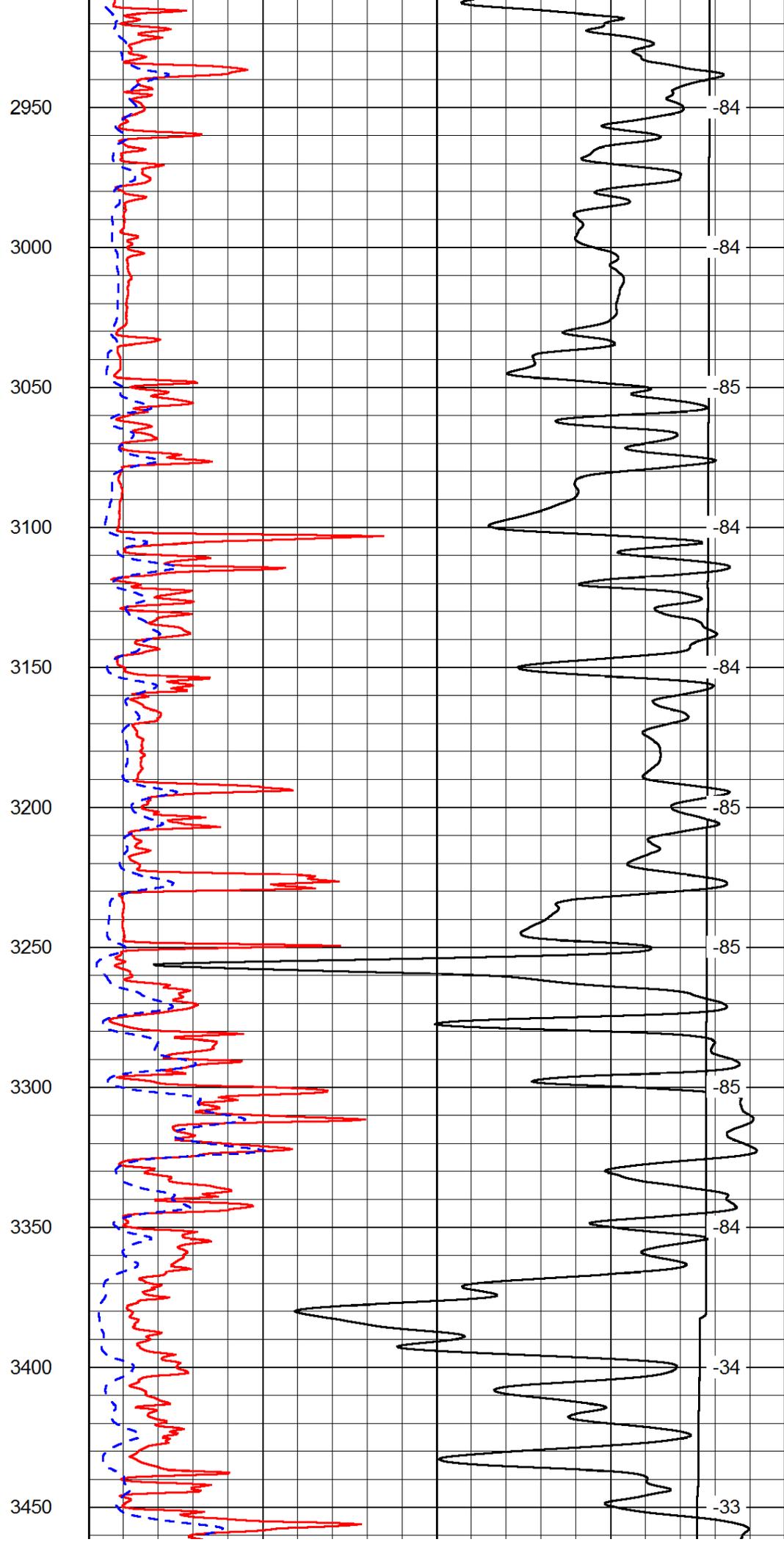
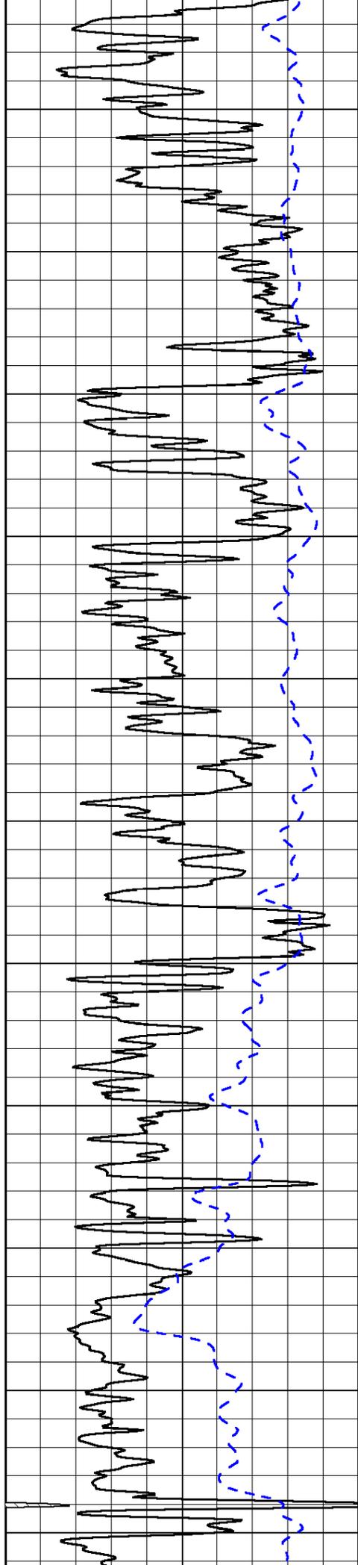
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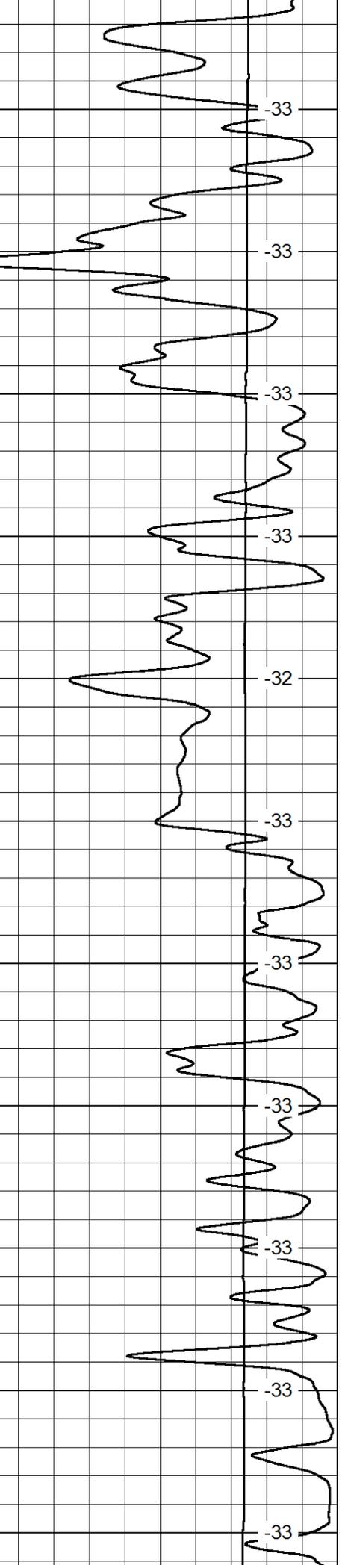
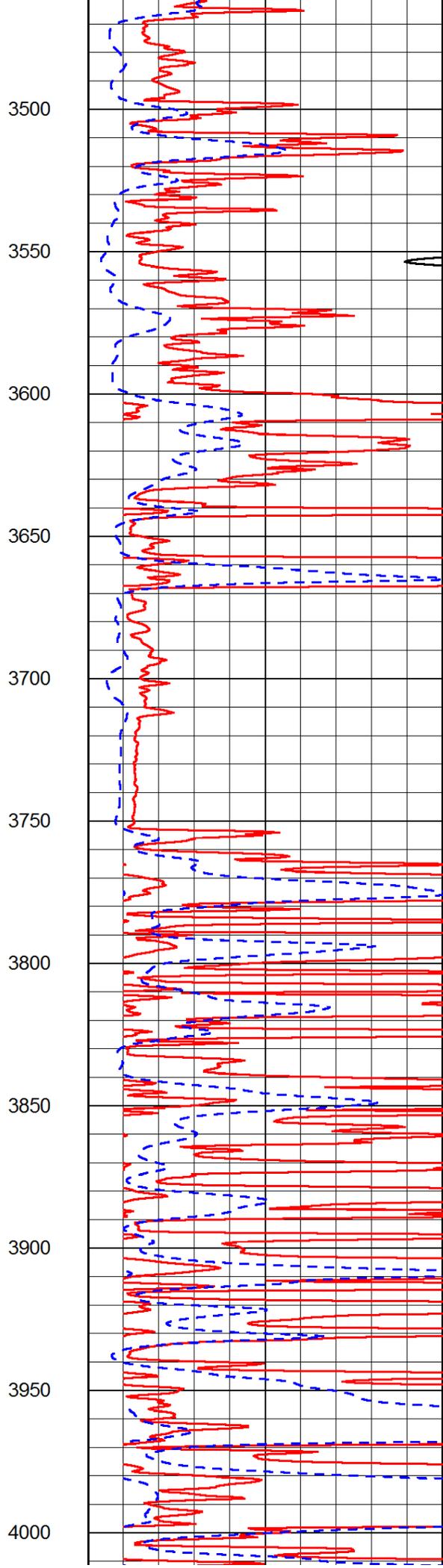
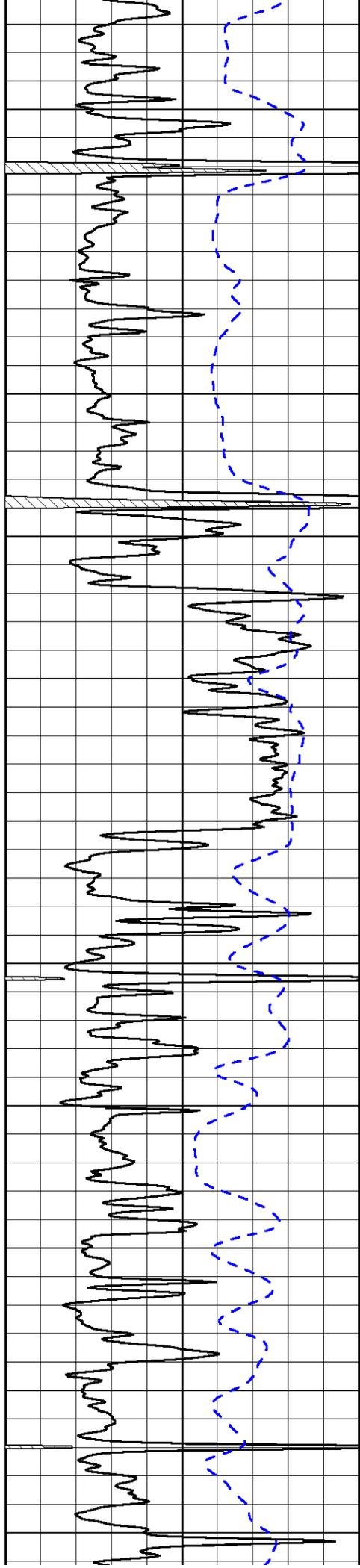


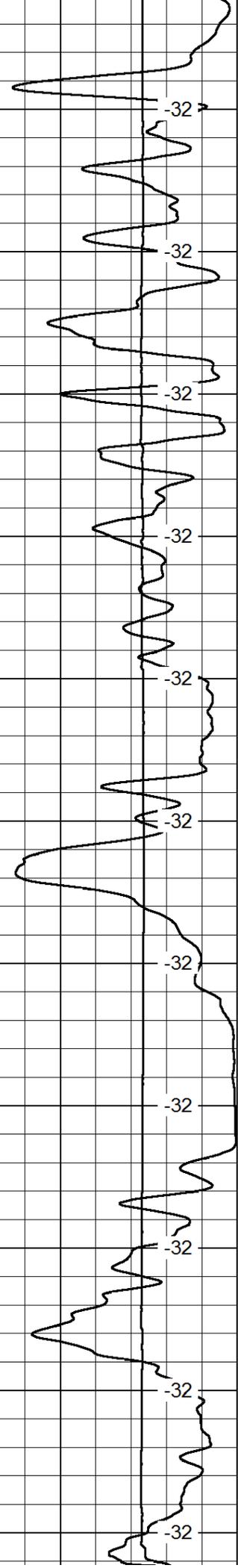
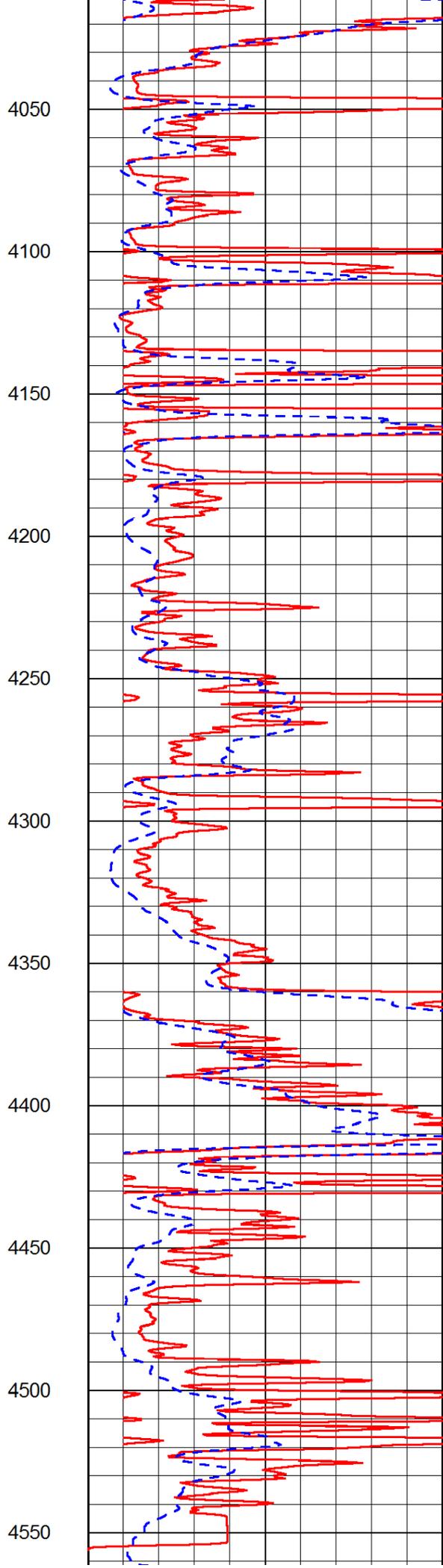
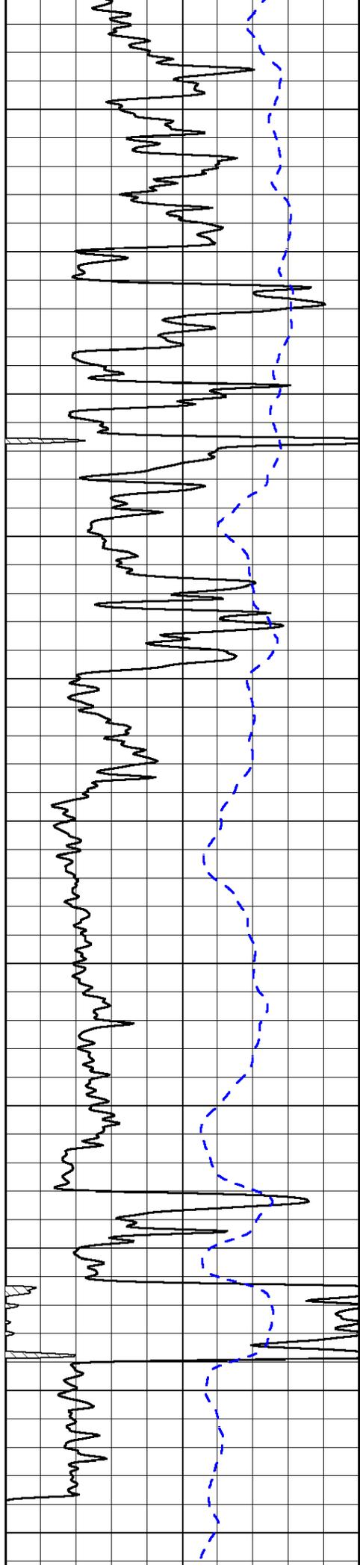








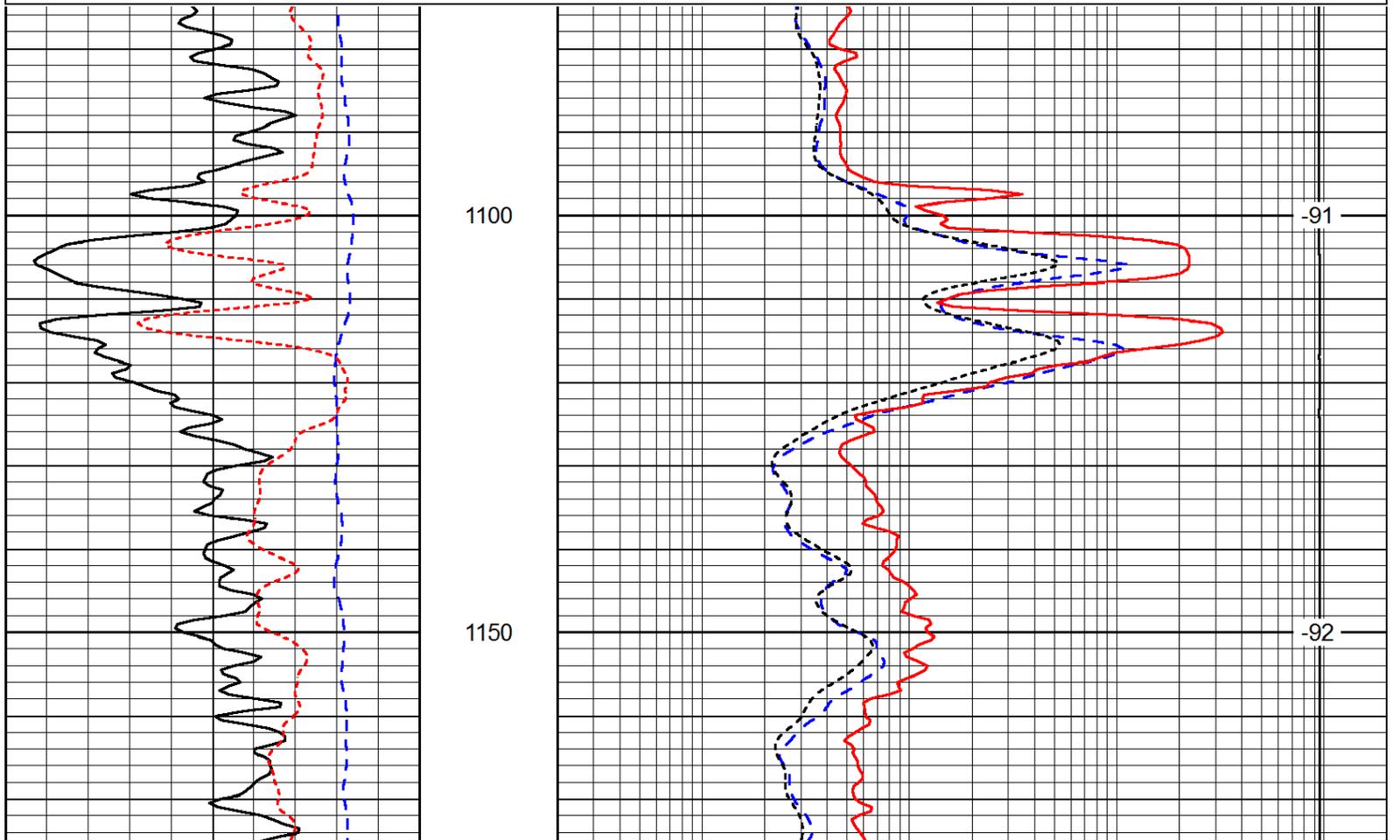




0	Gamma Ray	150	0	Shallow Resistivity	50		LSPD
-200	SP (mV)	0	0	Deep Resistivity	50		
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1000				Conductivity			0
15000				Line Tension			0
50	Shallow Resistivity	500					
50	Deep Resistivity	500					
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 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	0.2	Deep Resistivity	2000		
-200	SP (mV)	0	0.2	Medium Resistivity	2000		
-160	RxoRt	40	0.2	Shallow Resistivity	2000		
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15000				Line Tension			0
							LSPD



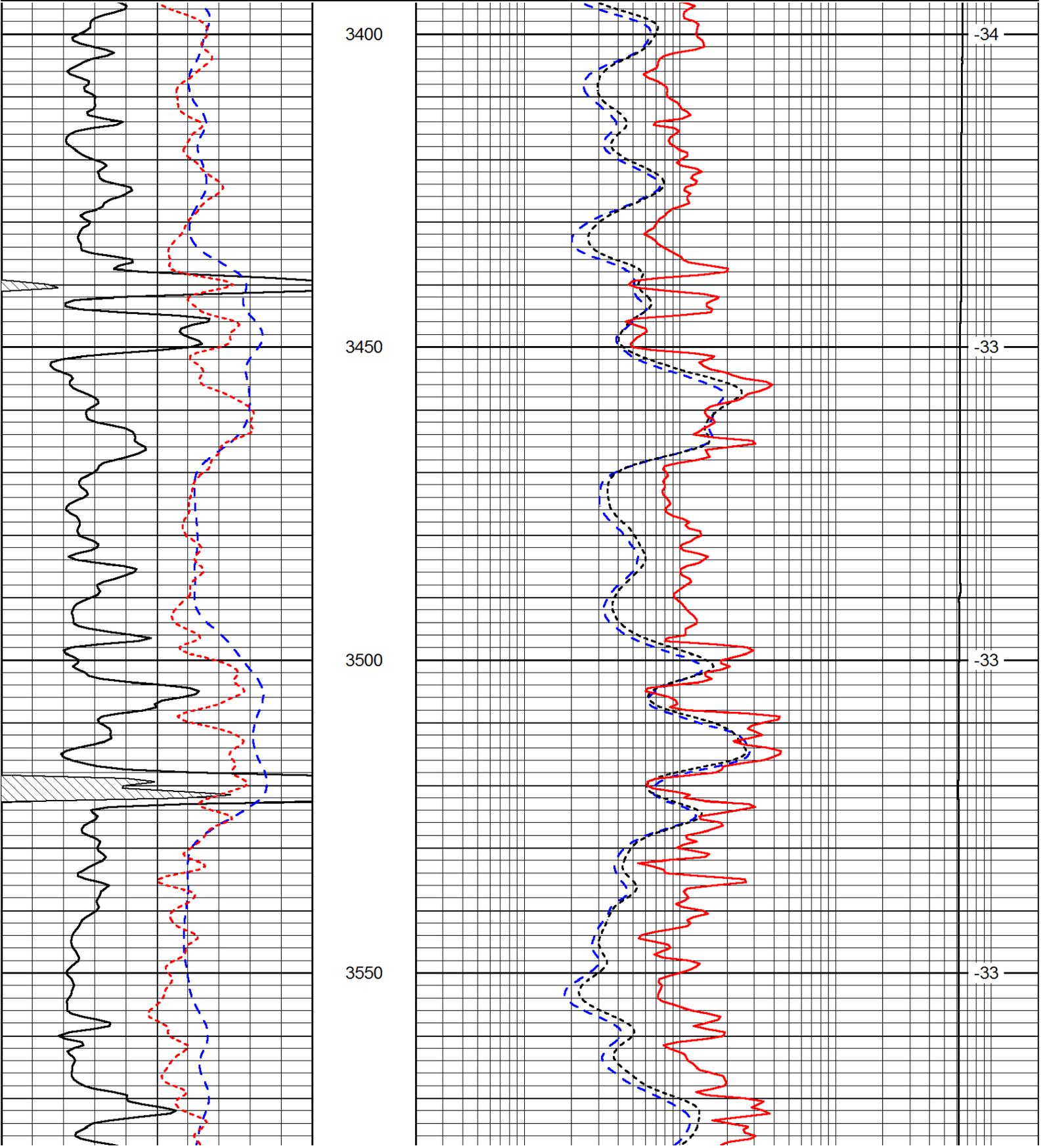
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-200	SP (mV)	0	0.2	Medium Resistivity	2000		
-160	RxoRt	40	0.2	Shallow Resistivity	2000		
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15000				Line Tension			0
							LSPD

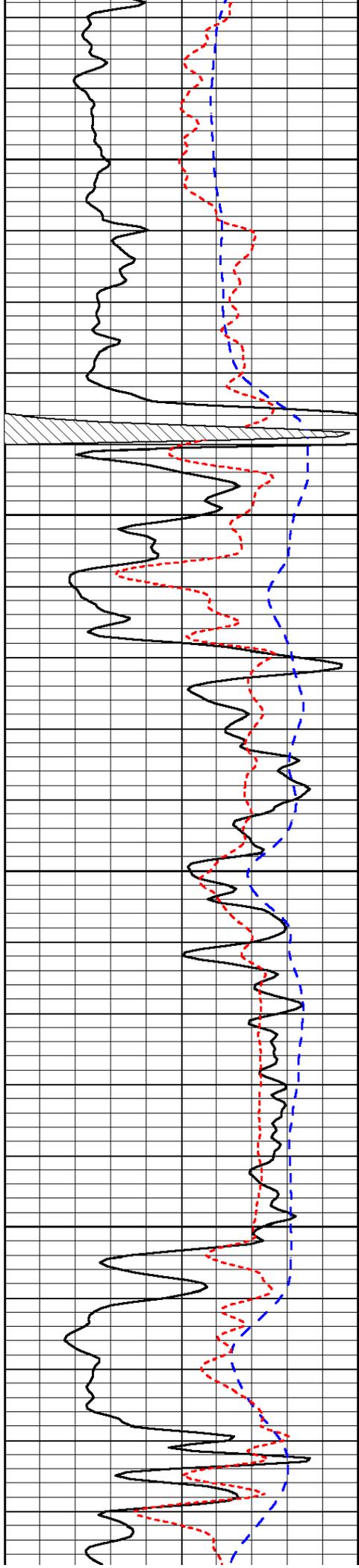
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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

LSPD



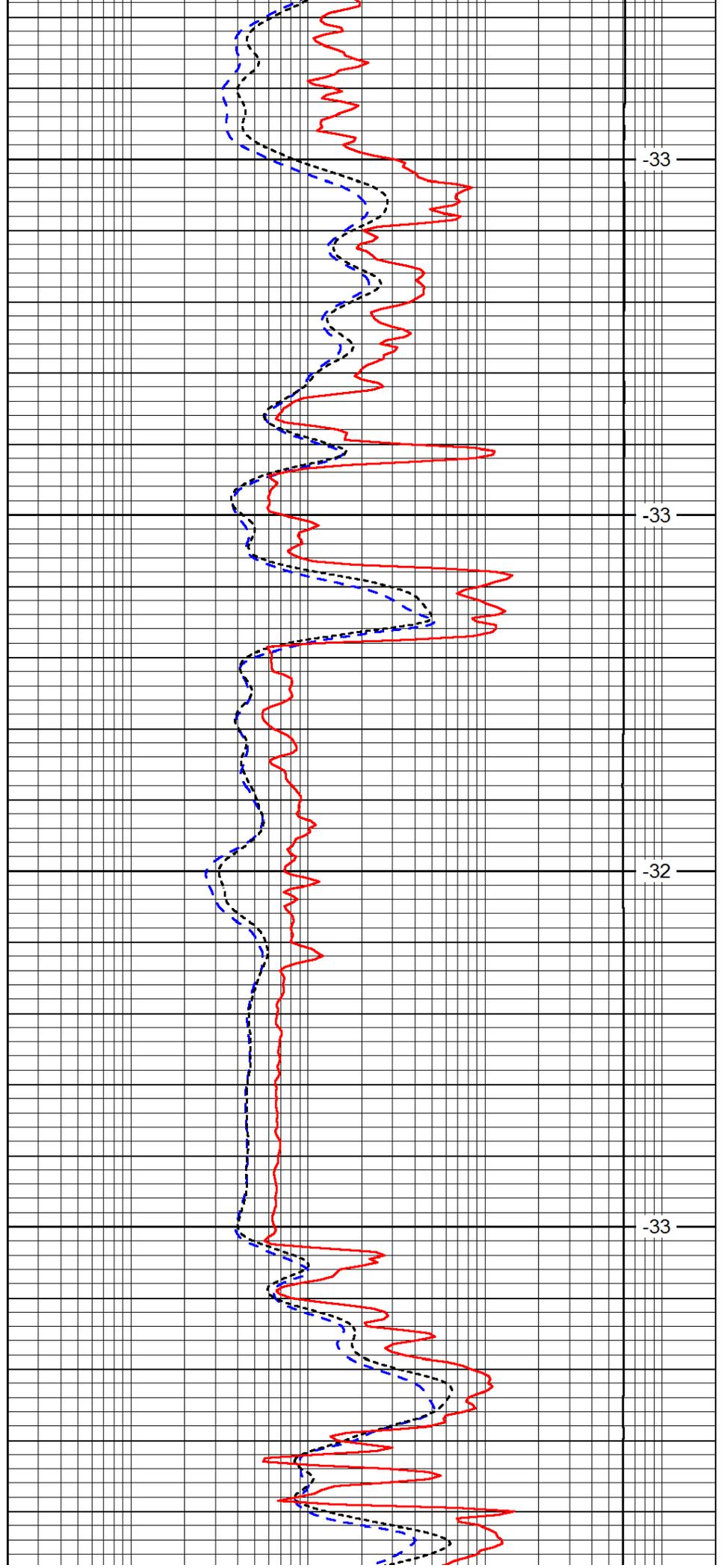


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3700

3750

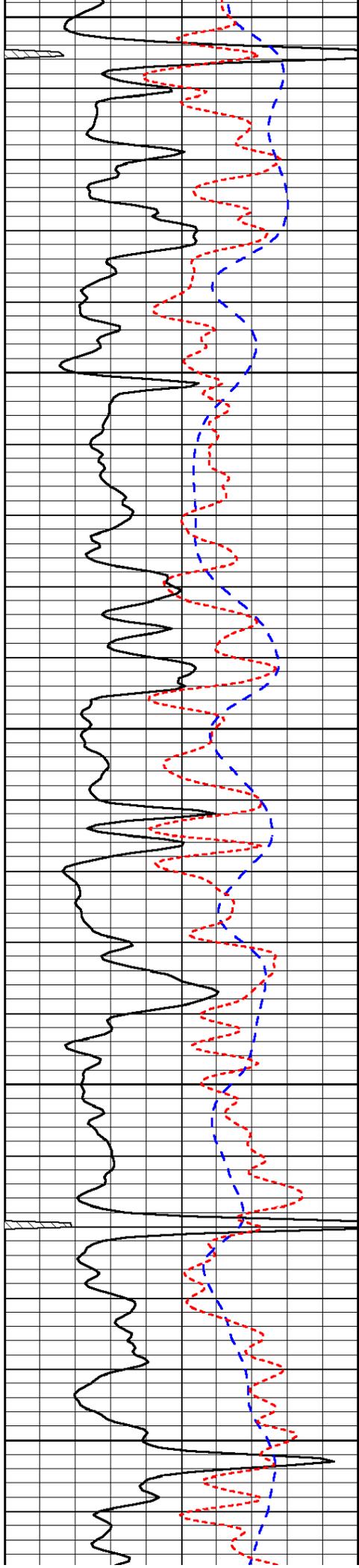


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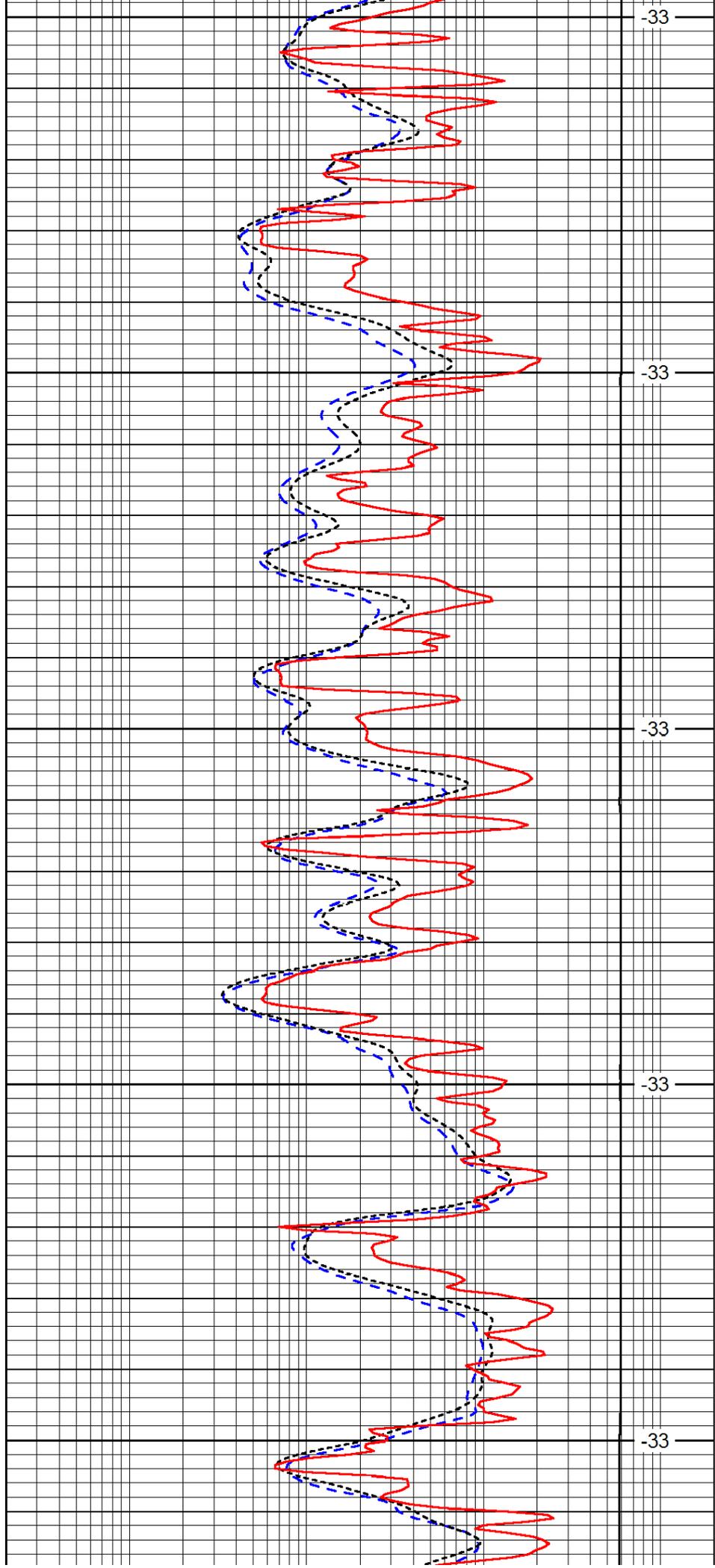
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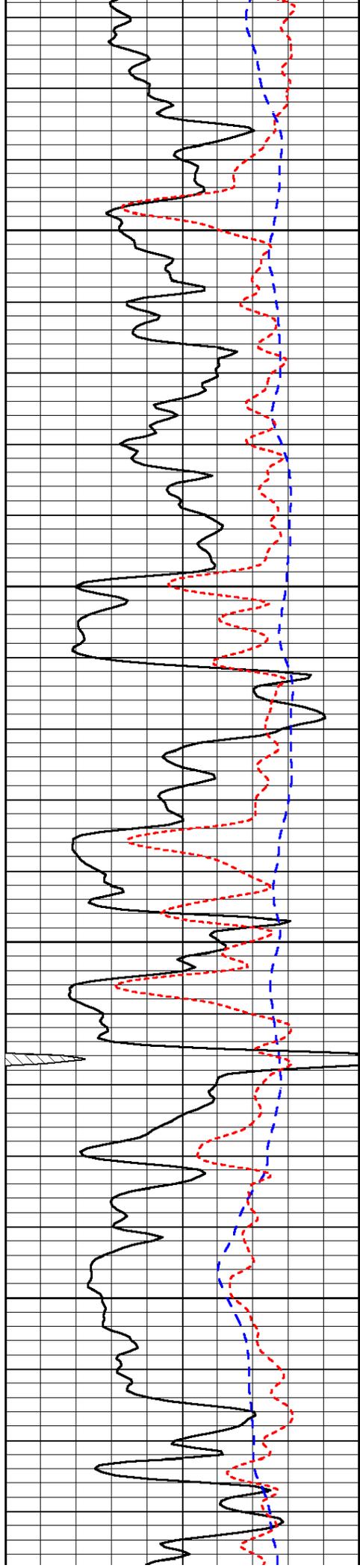
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3800
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3950
4000



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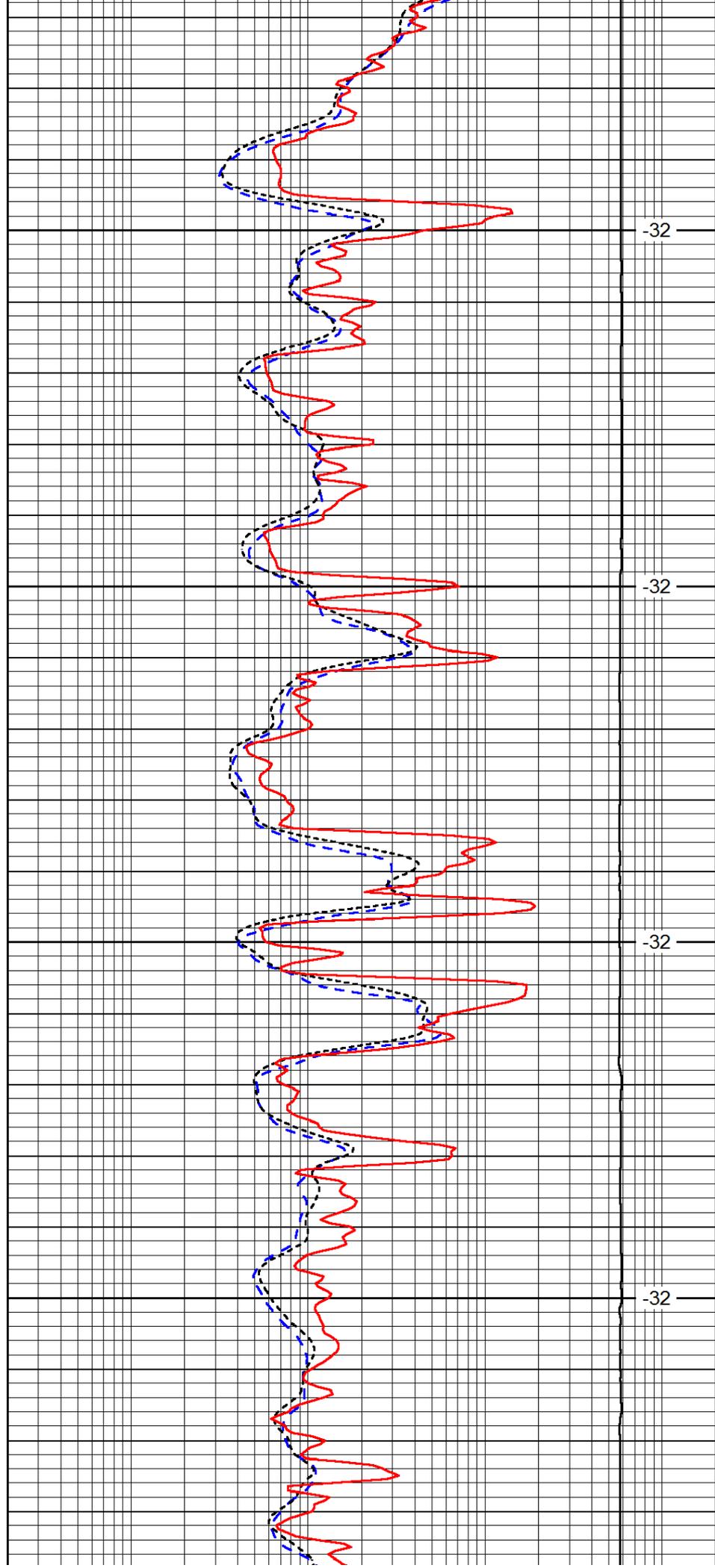


4050

4100

4150

4200

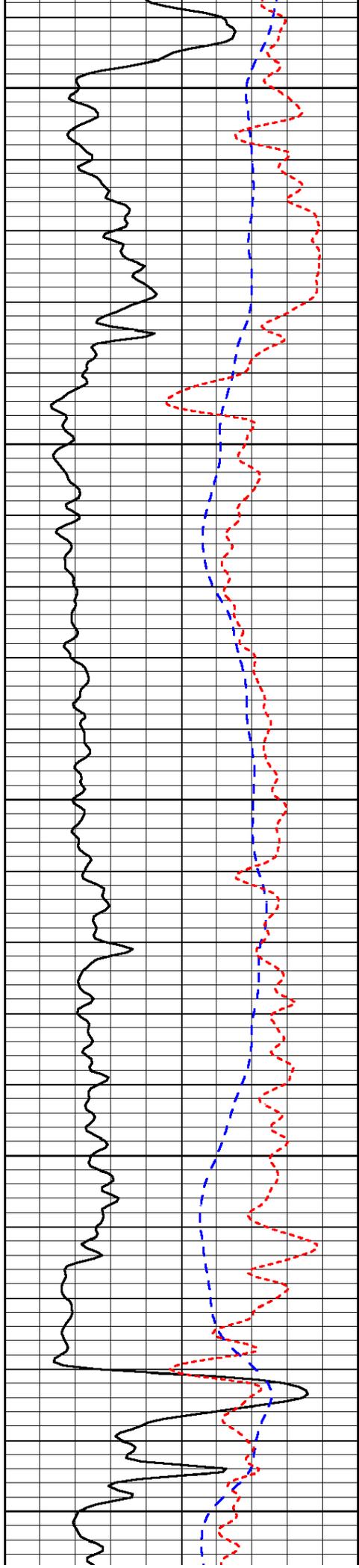


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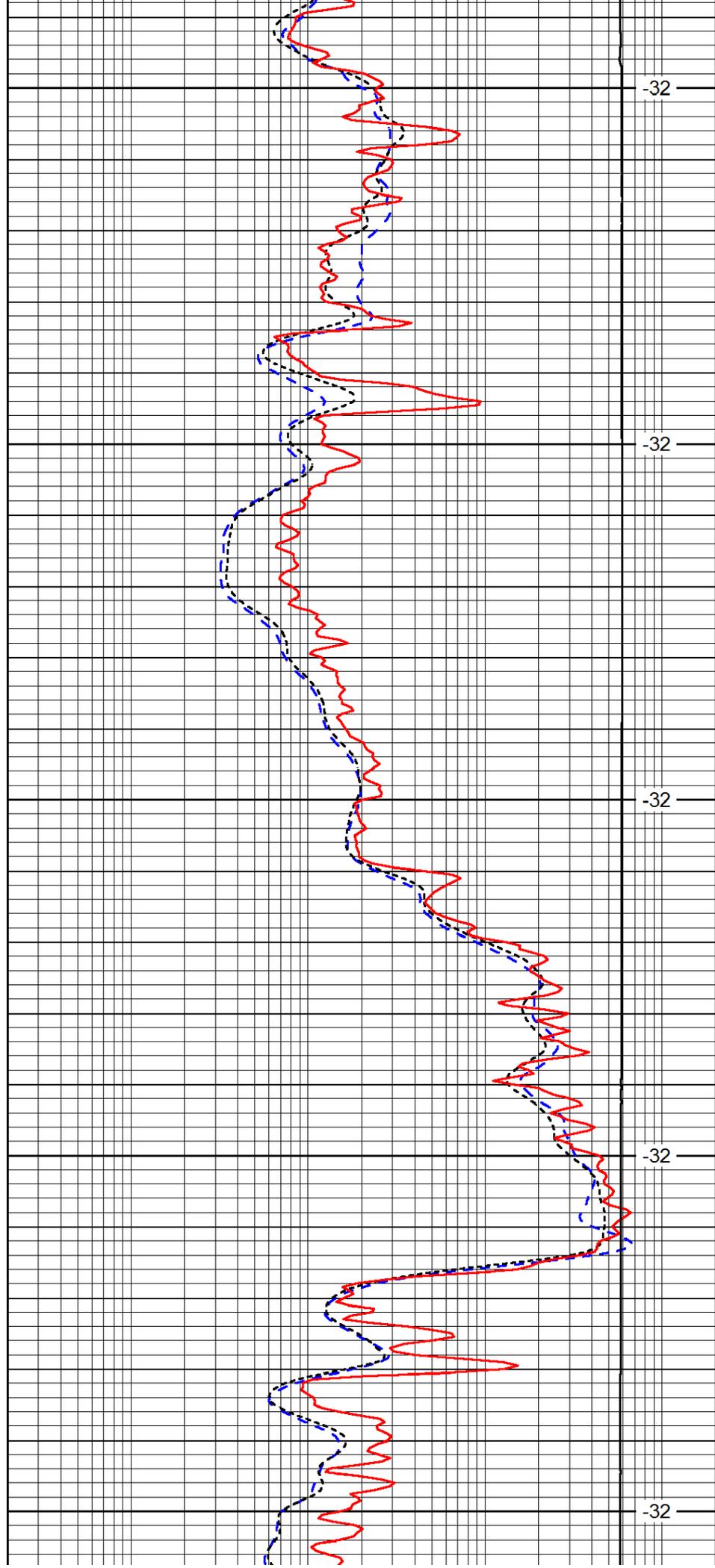
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4300

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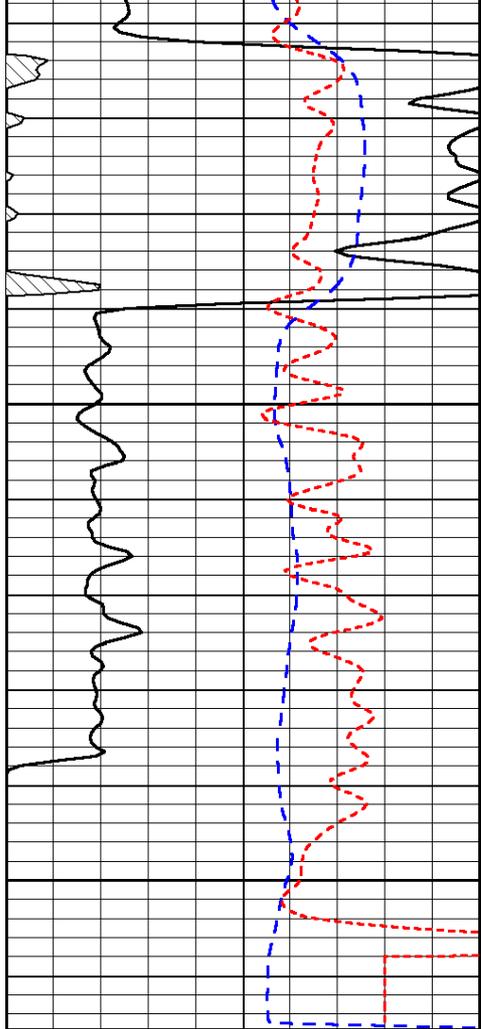
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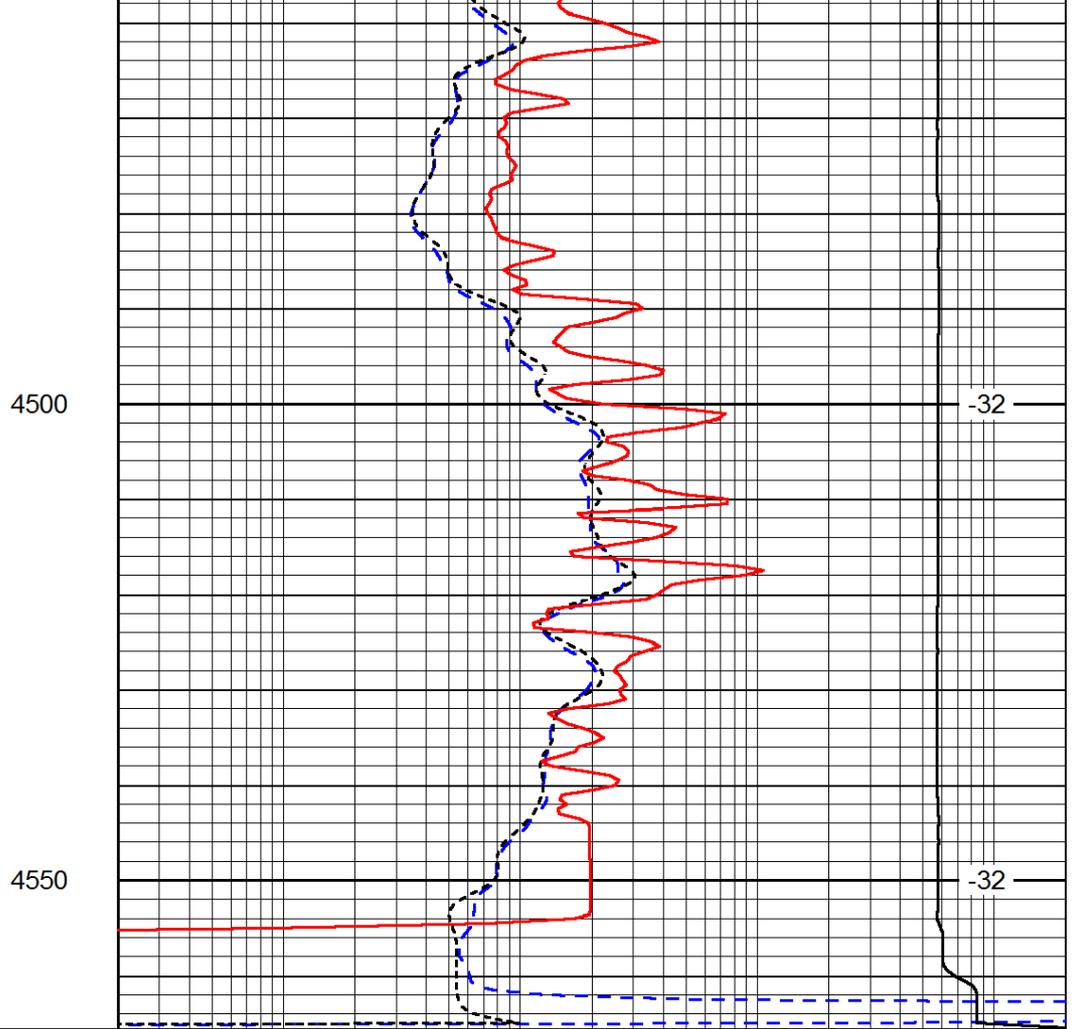
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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



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

LSPD