



Pioneer Energy Services

Dual Induction Log

15-055-22338-00-00

API No.

Company **American Warrior, Inc.**

Well **Ward # 1-2**

Field
County **Finney** State **Kansas**

Location
2014' FSL & 2284' FWL

Sec: **2** Twp: **25 S** Rge: **31 W**

Other Services
CNL/CDL
MEL

Permanent Datum **Ground Level** Elevation **2857**

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

Drilling Measured From **Frontkelly Bushing**

Date **11/24/2014**

Run Number **One**

Depth Driller **5050**

Depth Logger **5052**

Bottom Logged Interval **5051**

Top Log Interval **1700**

Casing Driller **8.625 @ 1710**

Casing Logger **1706**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **2.600**

Density / Viscosity **9.4 57**

pH / Fluid Loss	9.5	9.2
Source of Sample	Flowline	
Rm @ Meas. Temp	0.86 @ 68	
Rmf @ Meas. Temp	0.65 @ 68	
Rmc @ Meas. Temp	1.16 @ 68	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.46 @ 127	
Operating Rig Time	4 Hours	
Max Rec. Temp. F	127	
Equipment Number	15	
Location	Hays	
Recorded By	Y. Ruiz	
Witnessed By	Kevin Timson	

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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

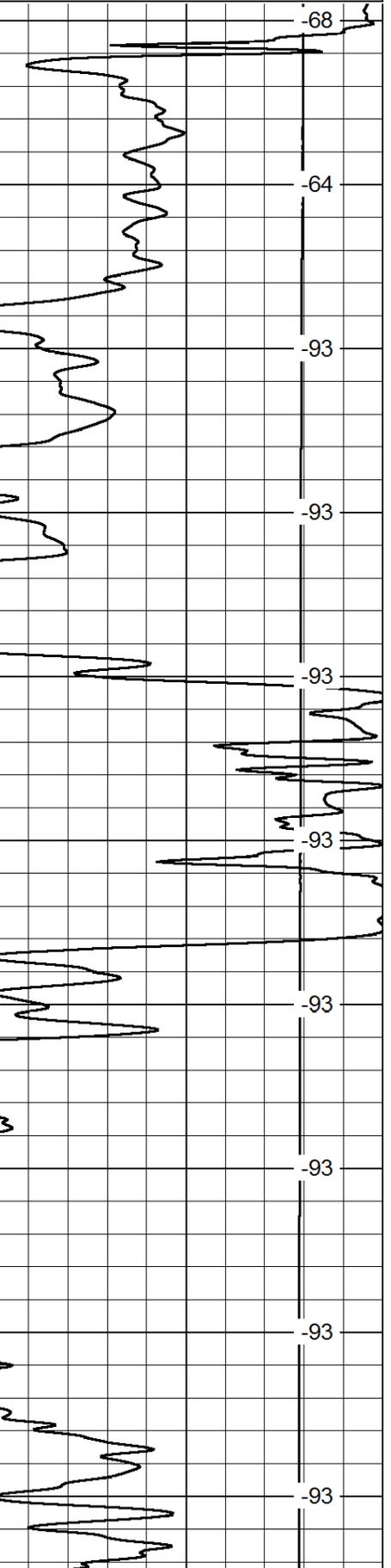
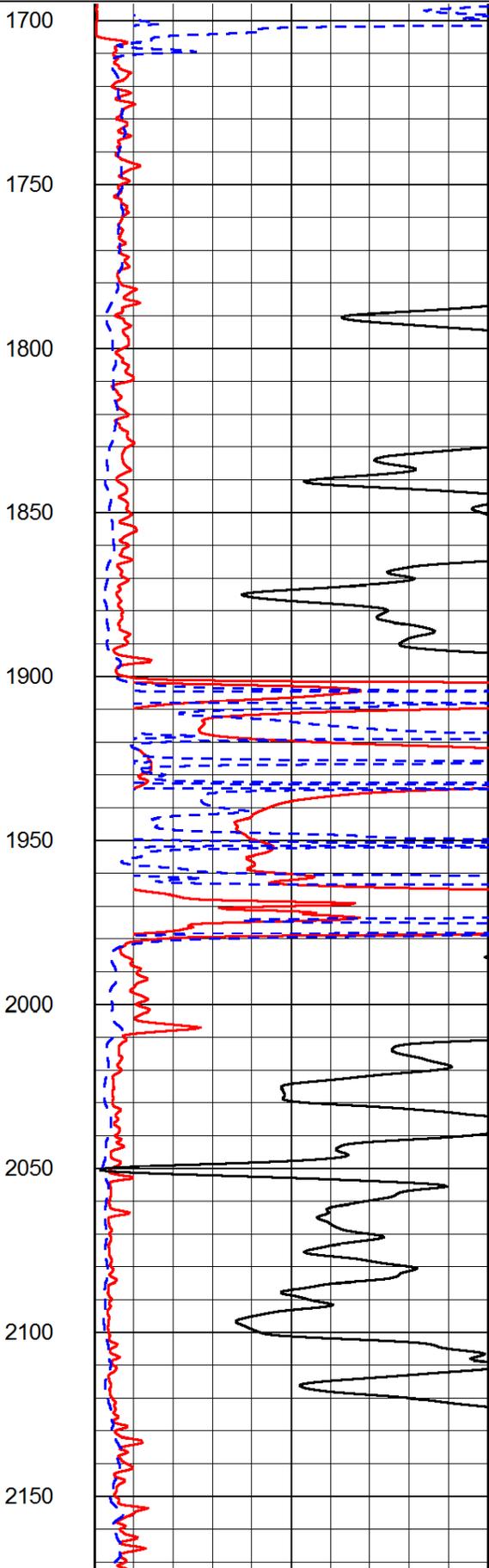
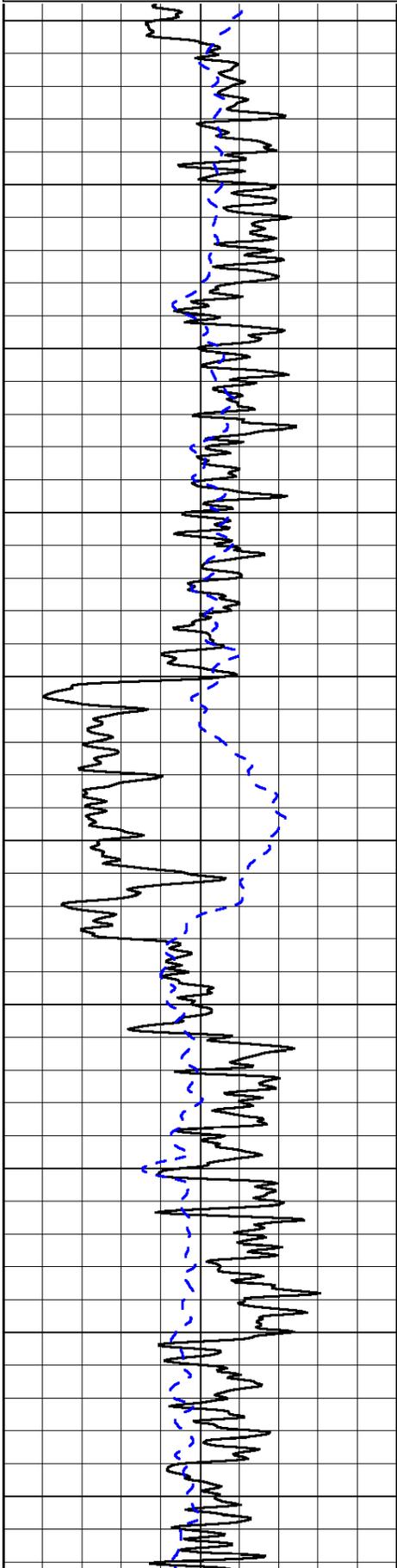
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858
 Garden City,
 Southeast on Hwy 50 to Aerodrome Rd, 7/8 Southeast pass Aerodrome Rd, 1 East,
 South into

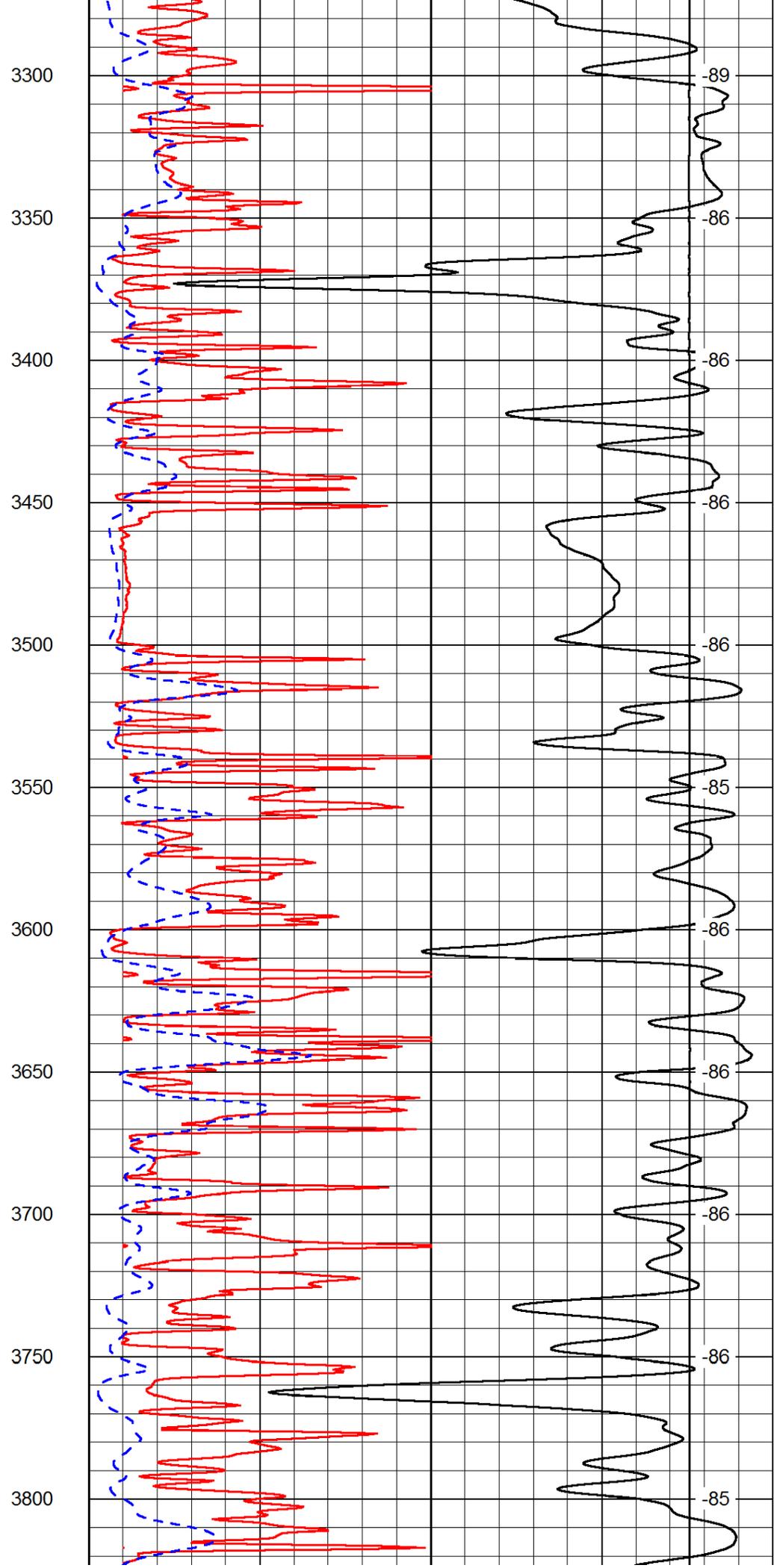
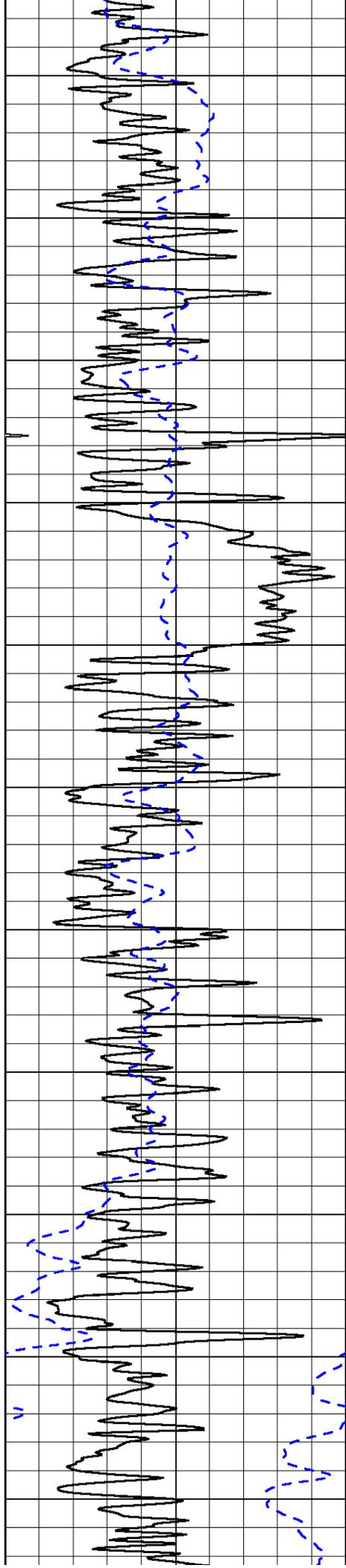
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 Charted by: Depth in Feet scaled 1:600

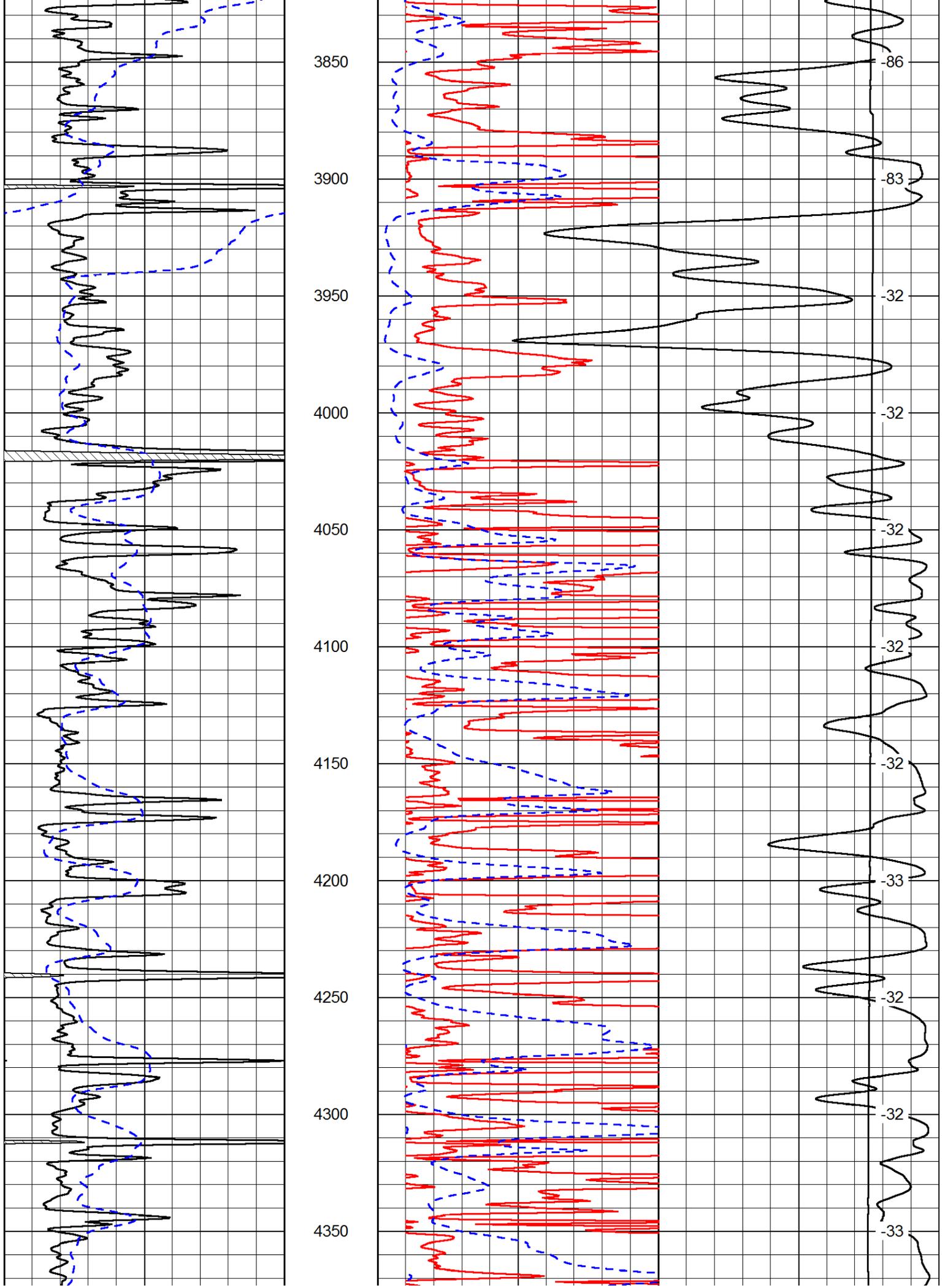
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-200 SP (mV) 0

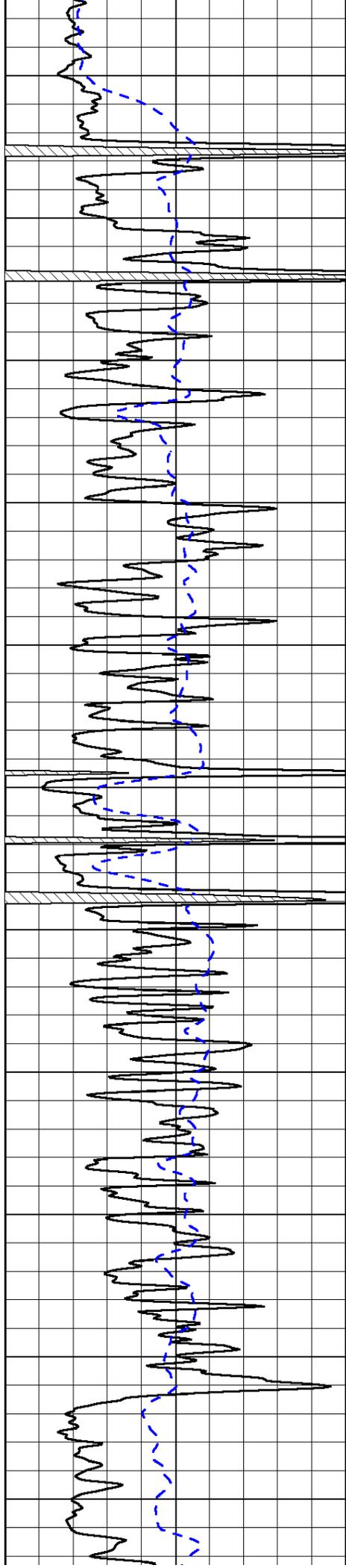
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0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500

LSPD









4400

4450

4500

4550

4600

4650

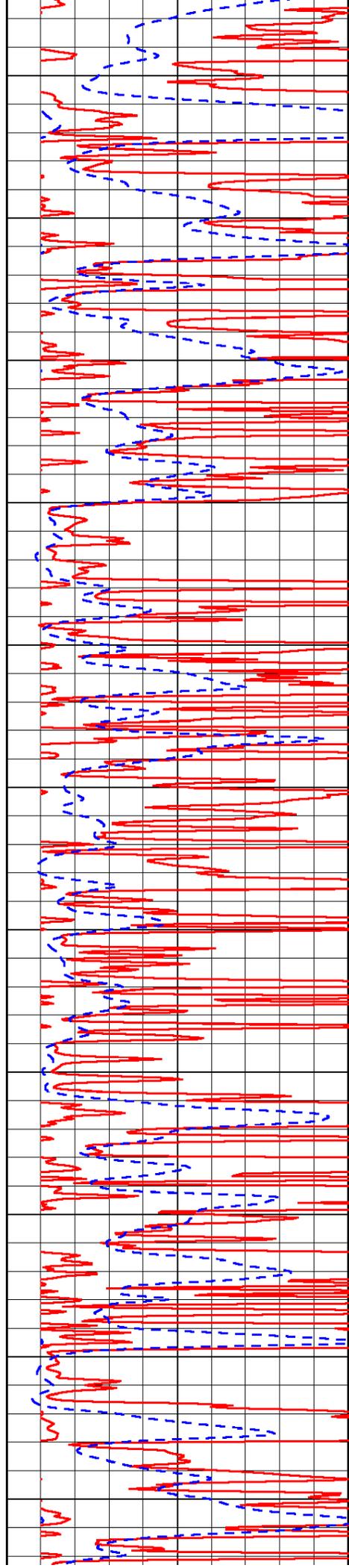
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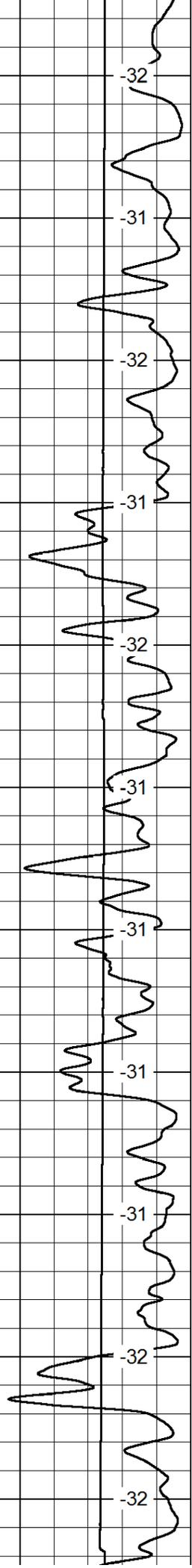
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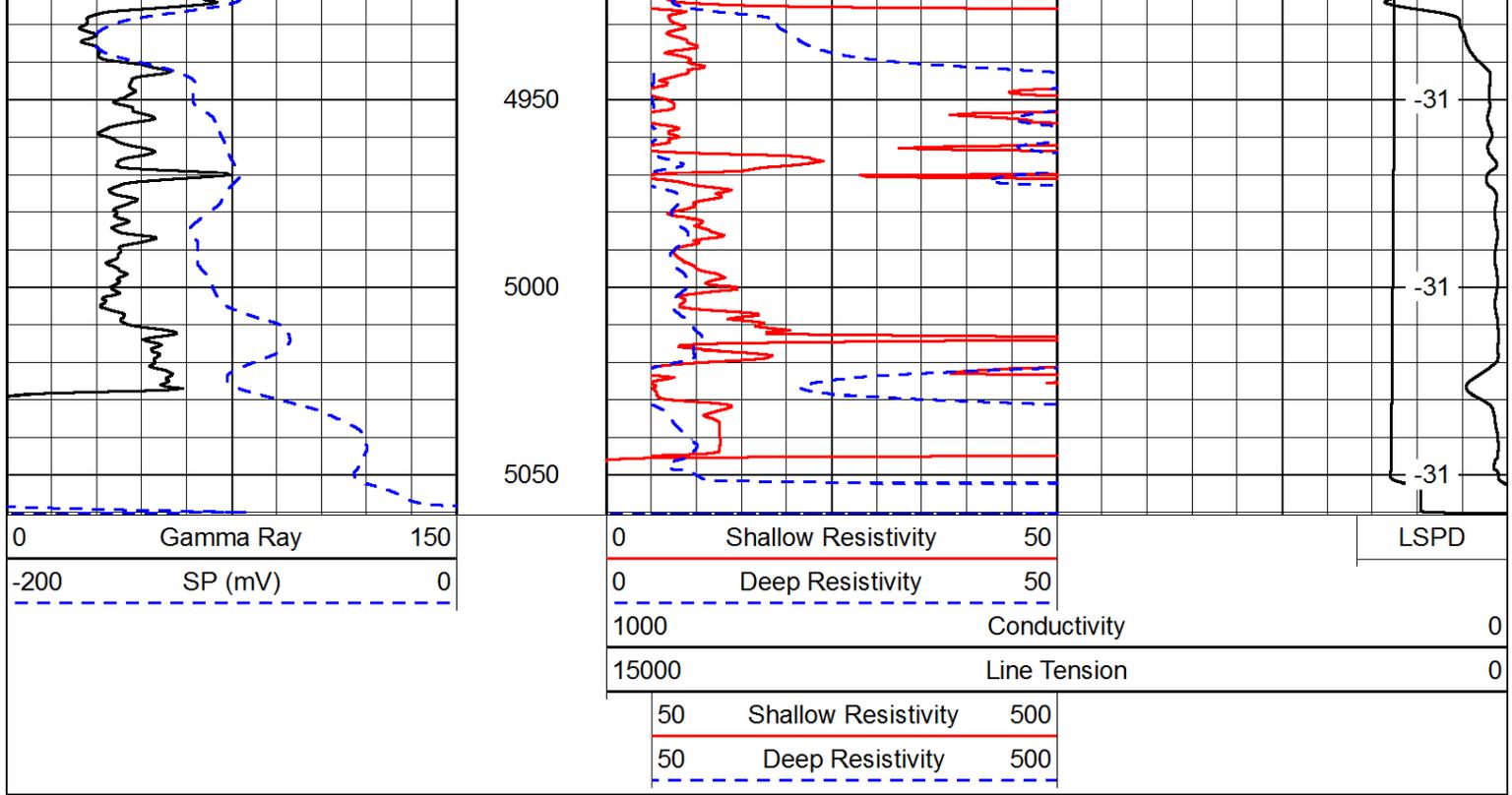
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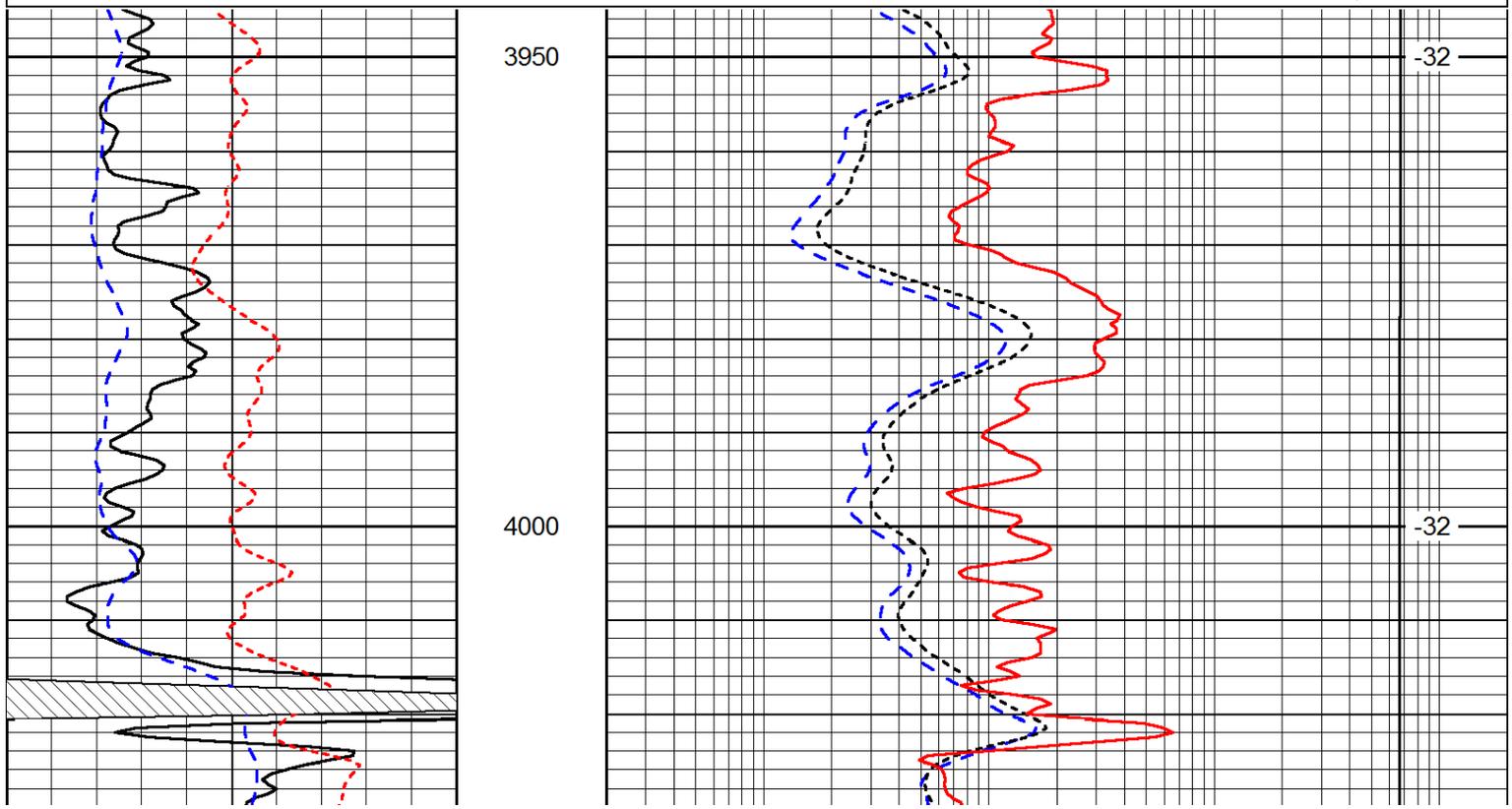
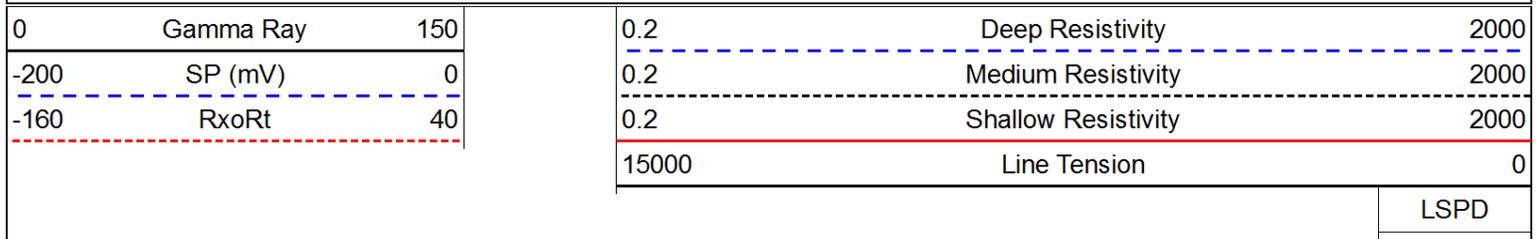
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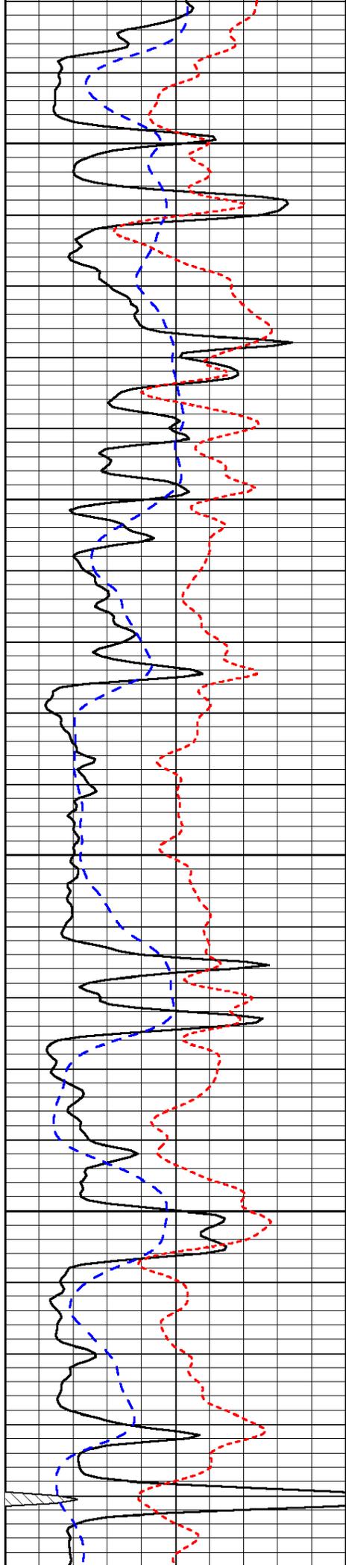
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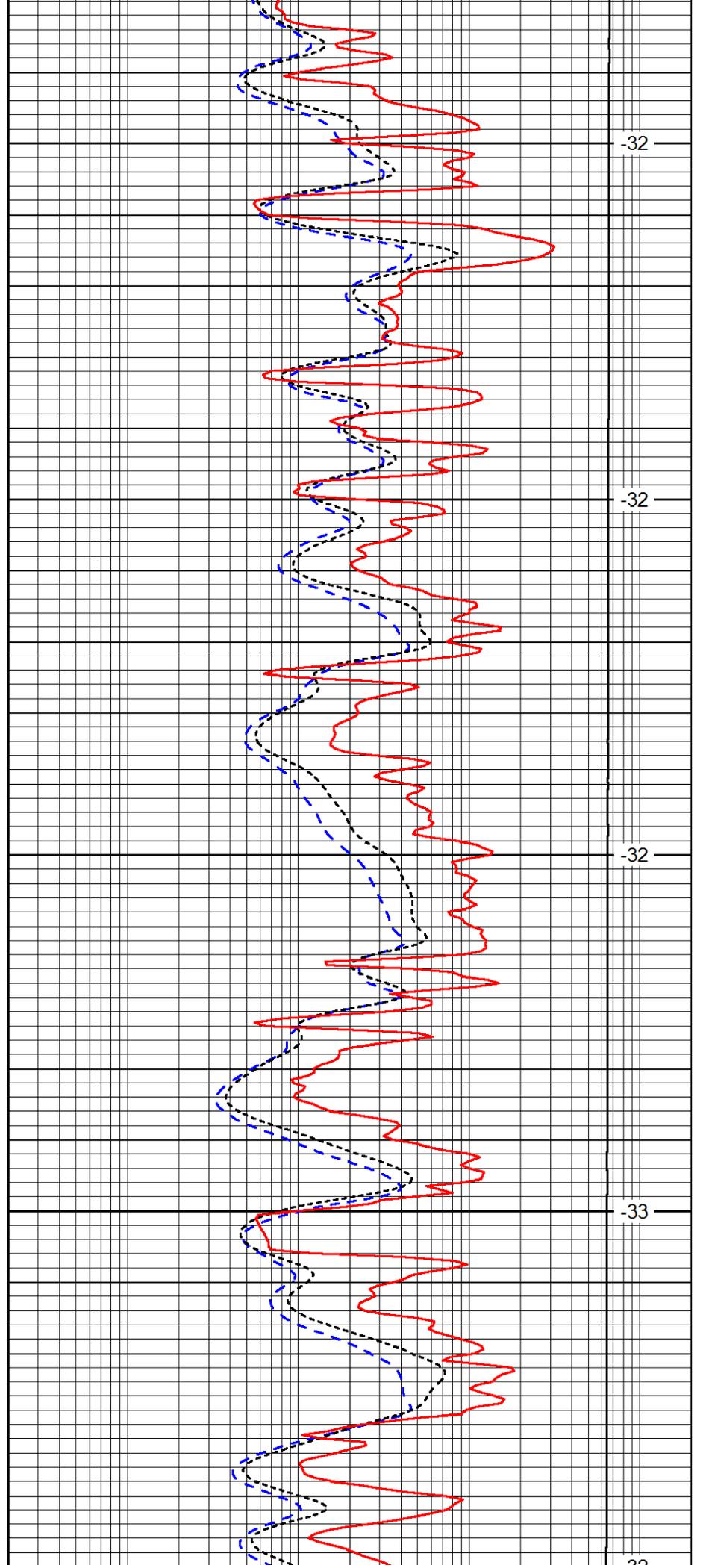
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4100

4150

4200

4250



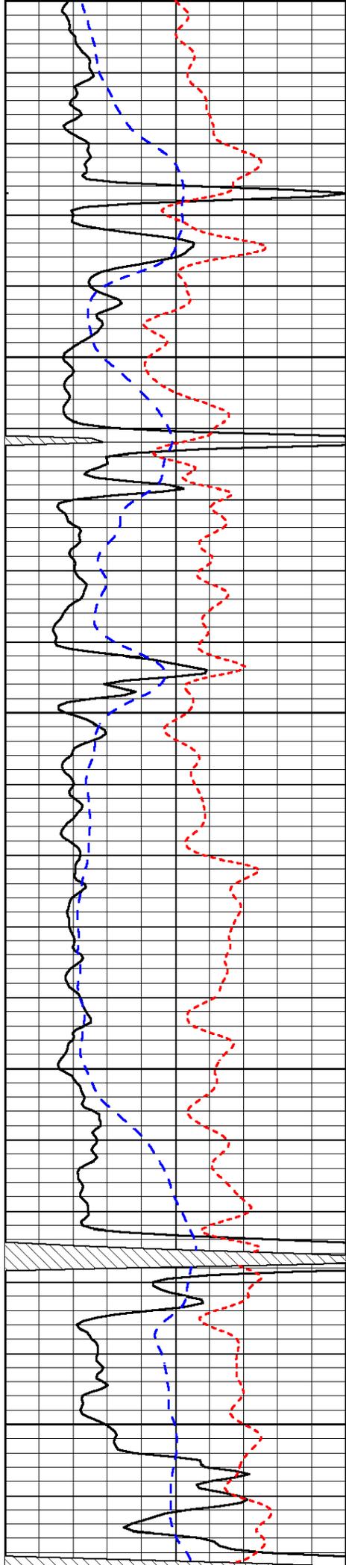
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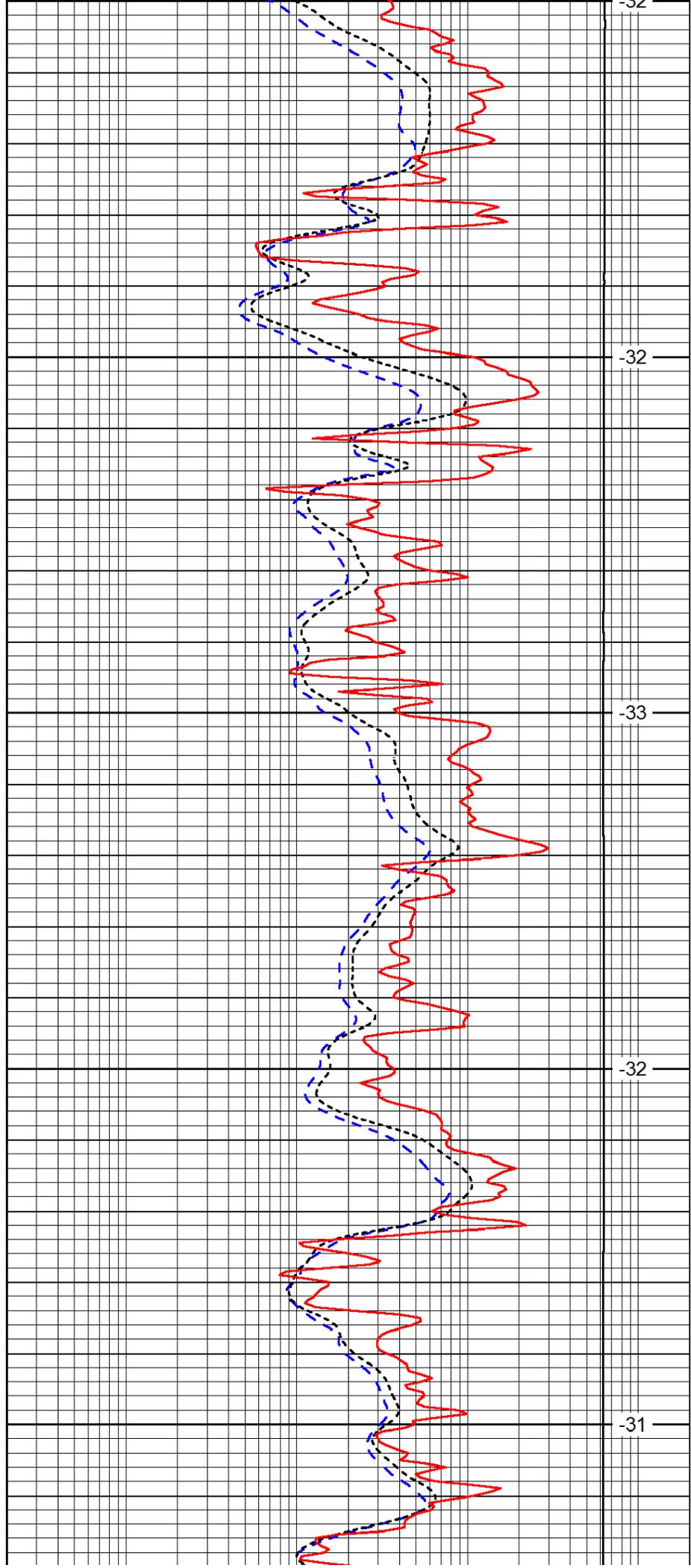
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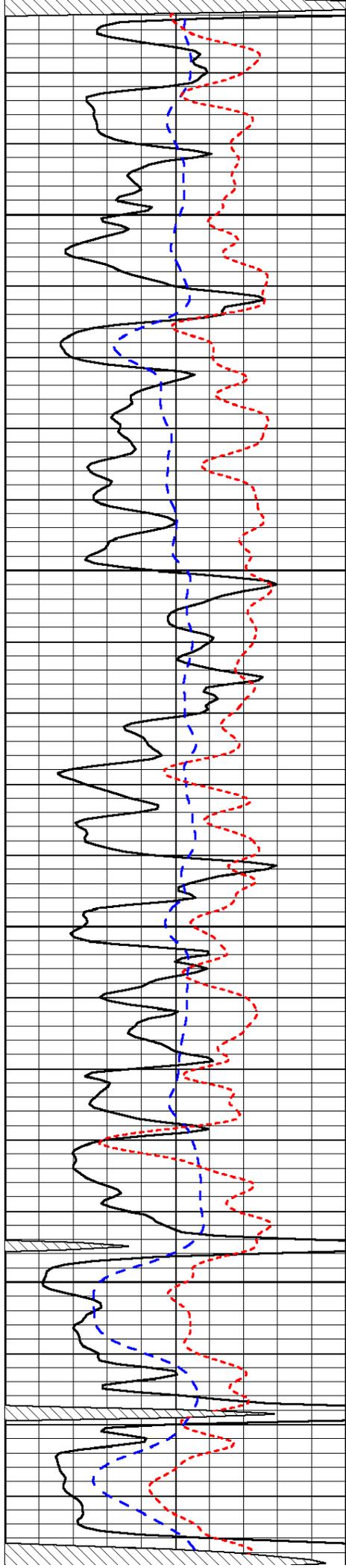
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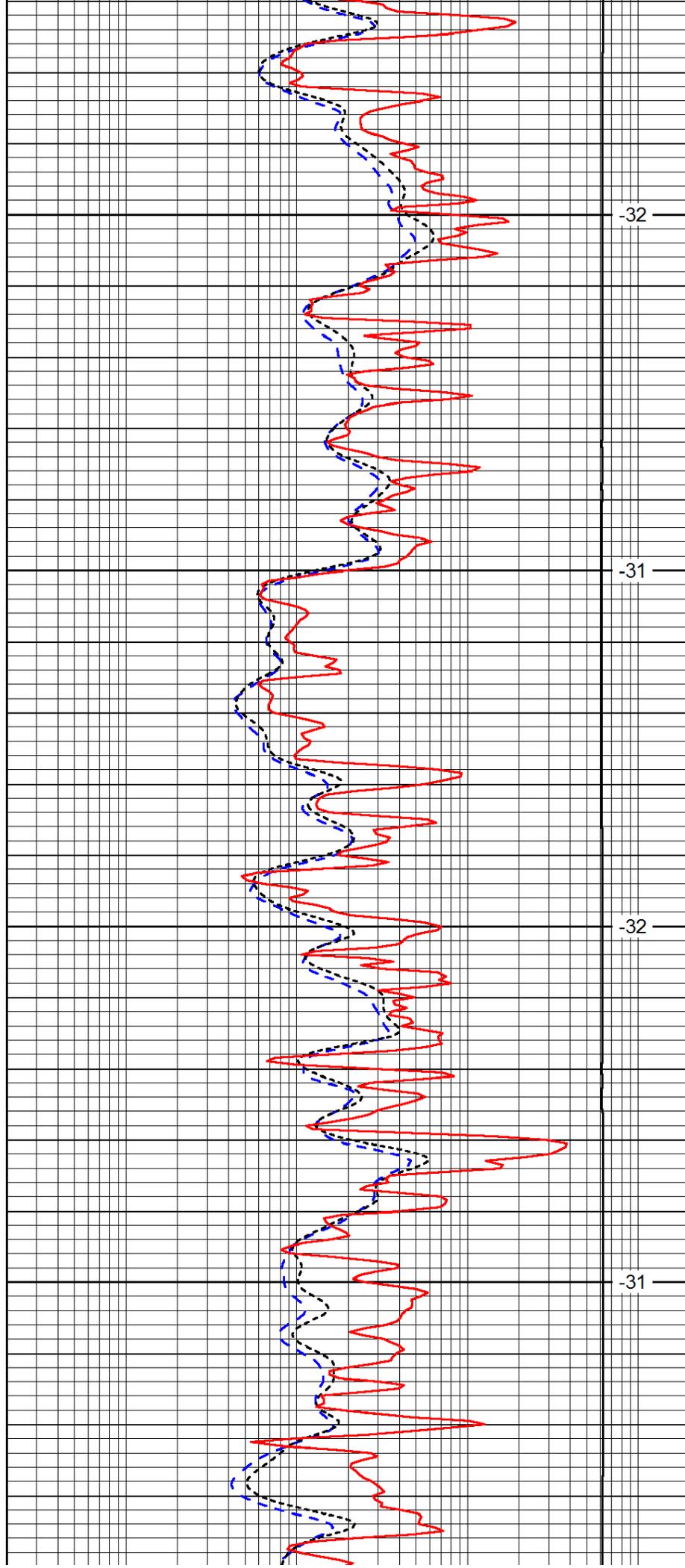


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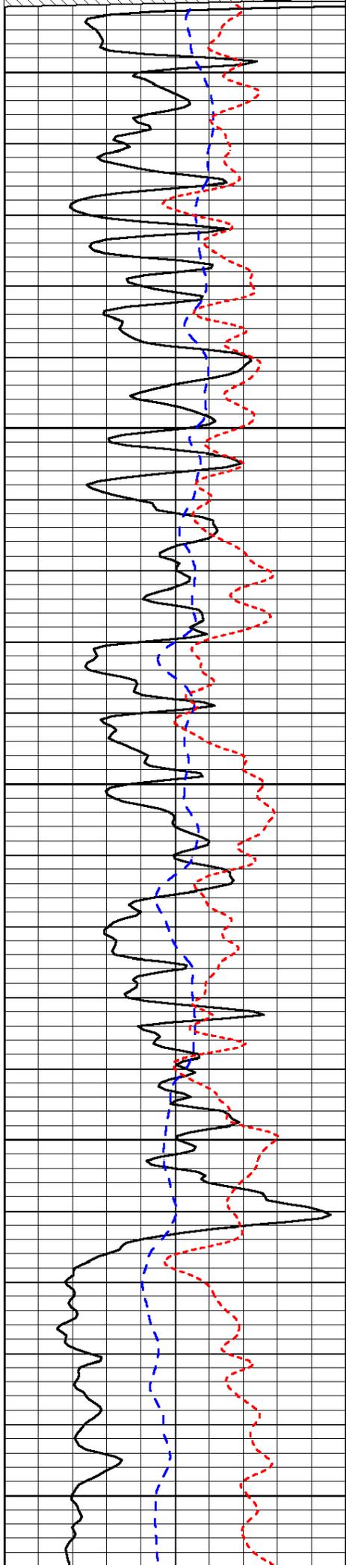


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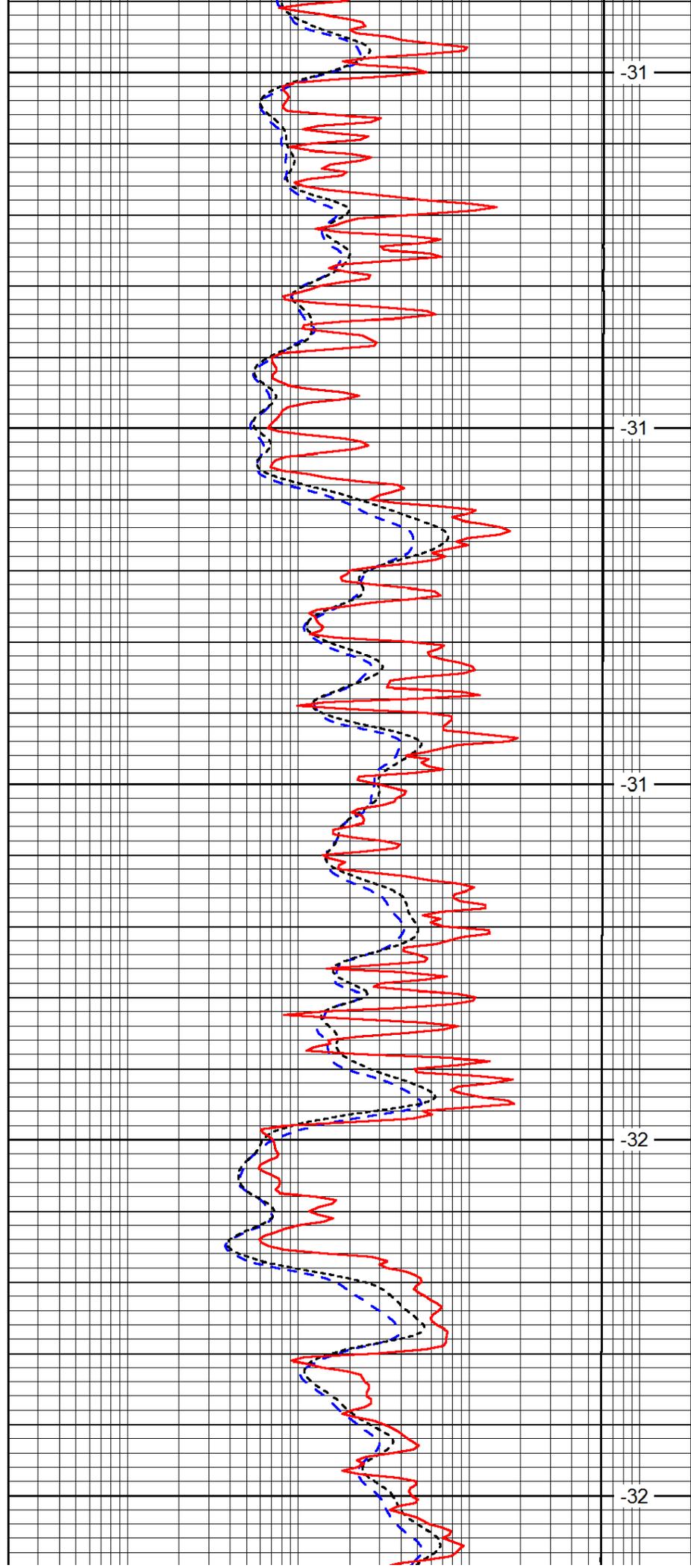
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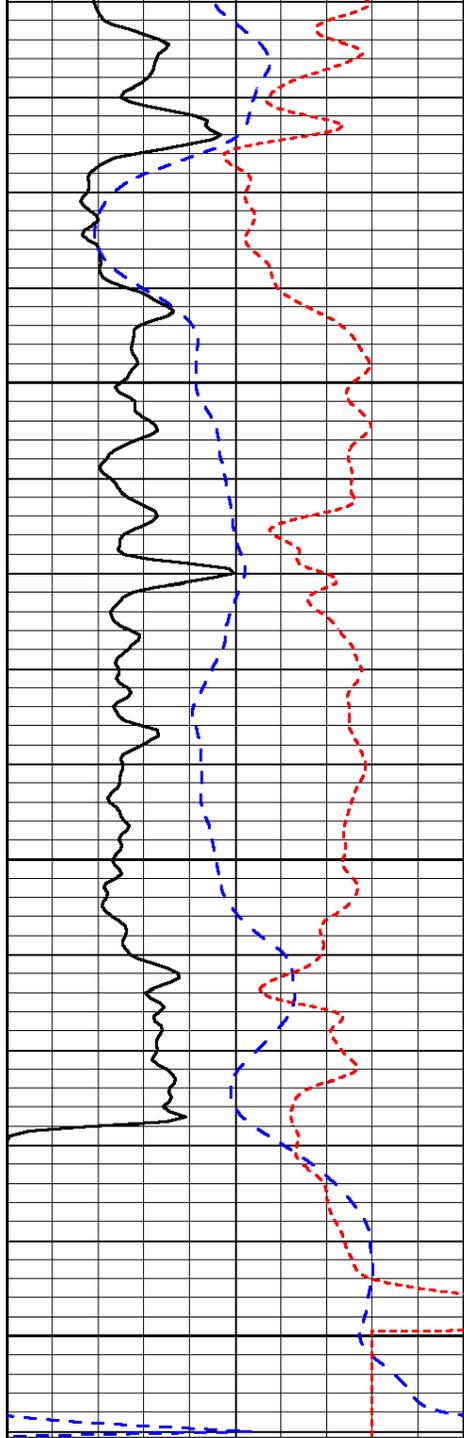
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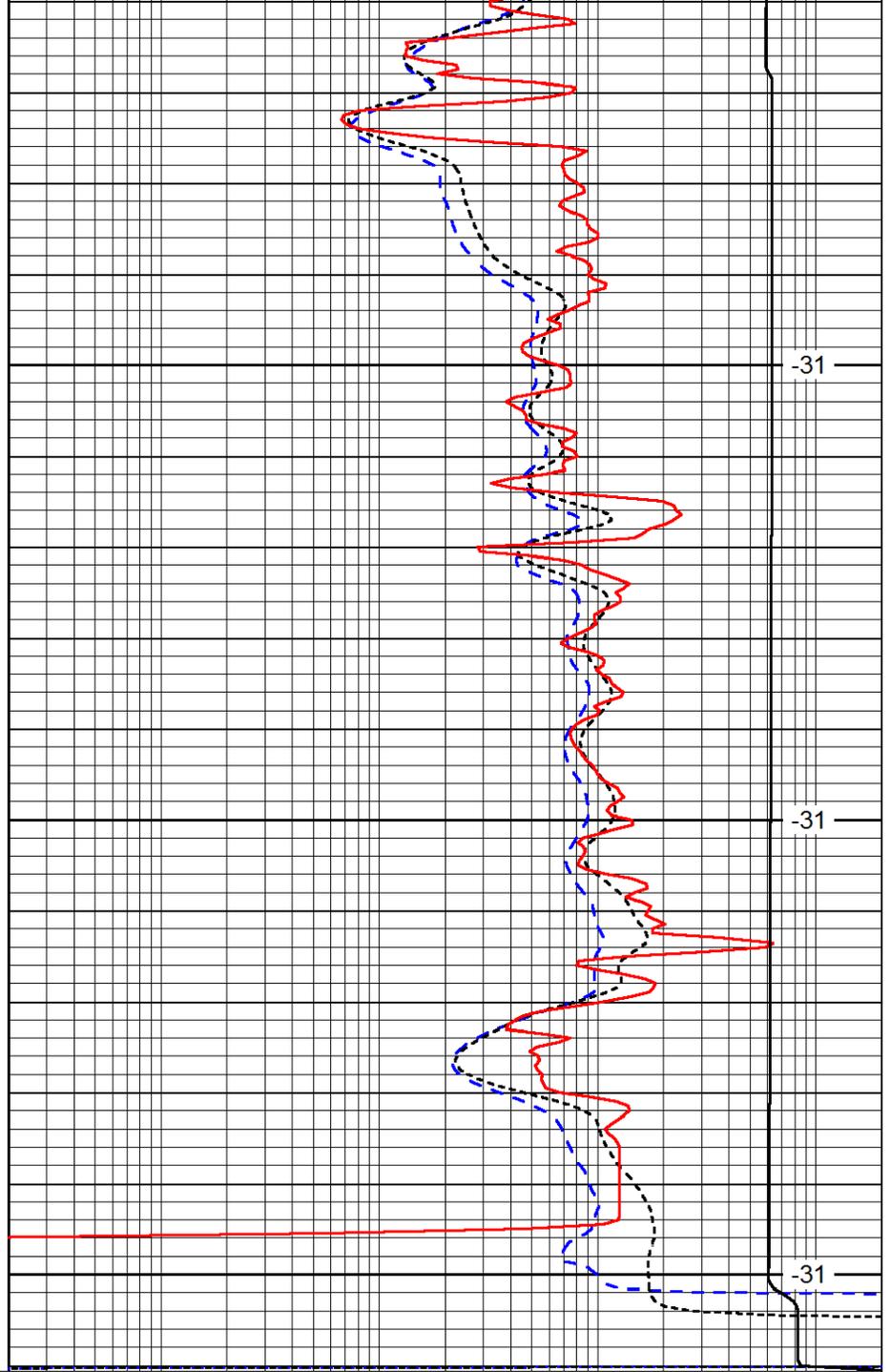


4950

5000

5050

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



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

LSPD