



Dual Induction Log

Pioneer Energy Services

API No.	Company Landmark Resources, Inc.			
	Well Sleeping Indian #1-11			
	Field Capstone South			
	County Scott State Kansas			
15-171-21079-00-00	Location	1009' FNL & 1777' FEL		Other Services CNL/CDL BHCS
	Sec: 11	Twp: 17S	Rge: 34W	Elevation
	Permanent Datum	Ground Level	Elevation 3105	K.B. 3116
	Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	D.F. 3105
Drilling Measured From Kelly Bushing				
Date	7/26/2014			
Run Number	One			
Depth Driller	4880			
Depth Logger	4880			
Bottom Logged Interval	4879			
Top Log Interval	200			
Casing Driller	8.625 @ 249			
Casing Logger	250			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	5000			
Density / Viscosity	9.3 51			
pH / Fluid Loss	10.5 8.8			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.80 @ 92			
Rmf @ Meas. Temp	0.60 @ 92			
Rmc @ Meas. Temp	1.08 @ 92			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.58 @ 127			
Operating Rig Time	5 Hours			
Max Rec. Temp. F	127			
Equipment Number	91			
Location	Hays			
Recorded By	D. Schmitt			
Witnessed By	Terry McLeod			

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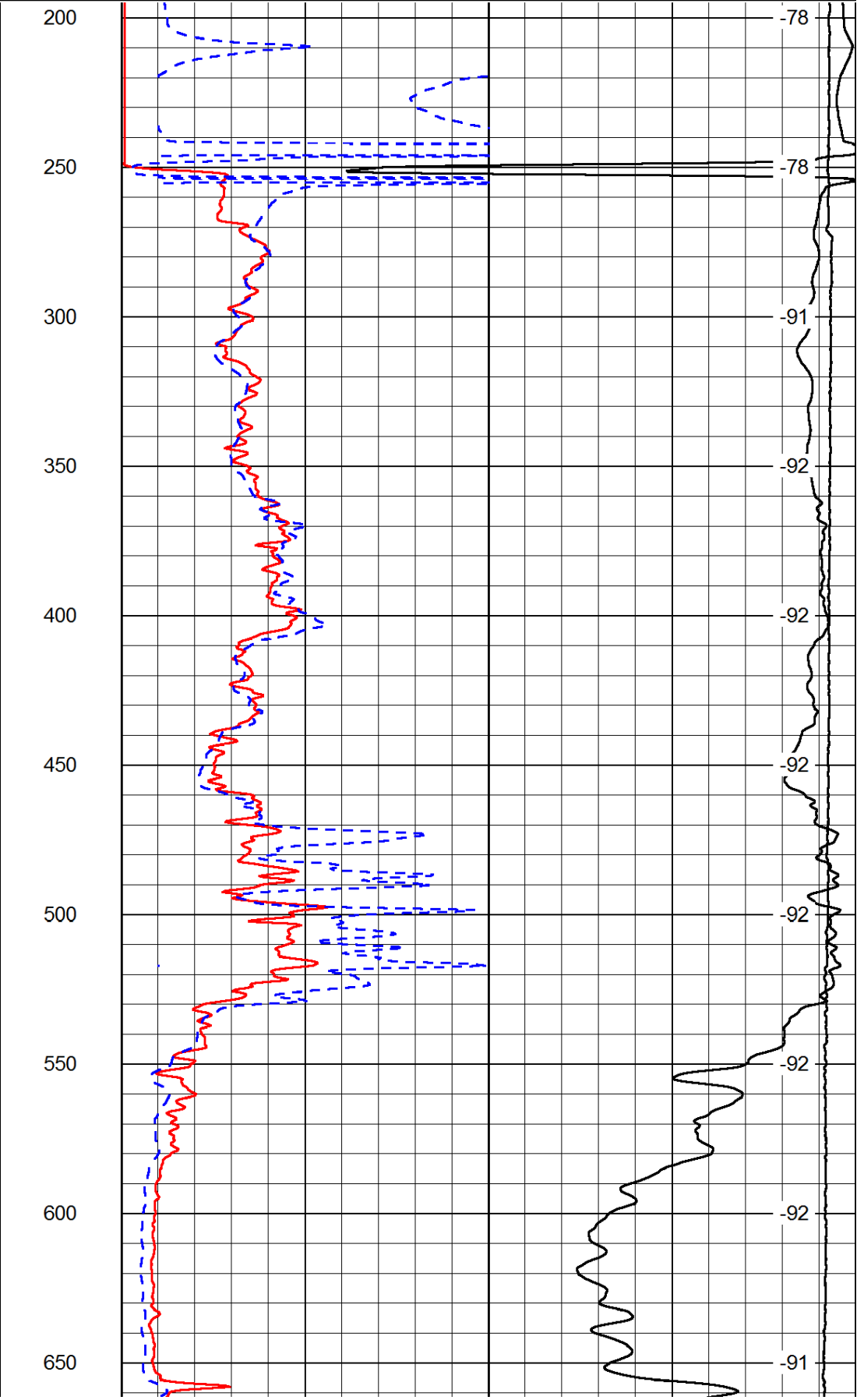
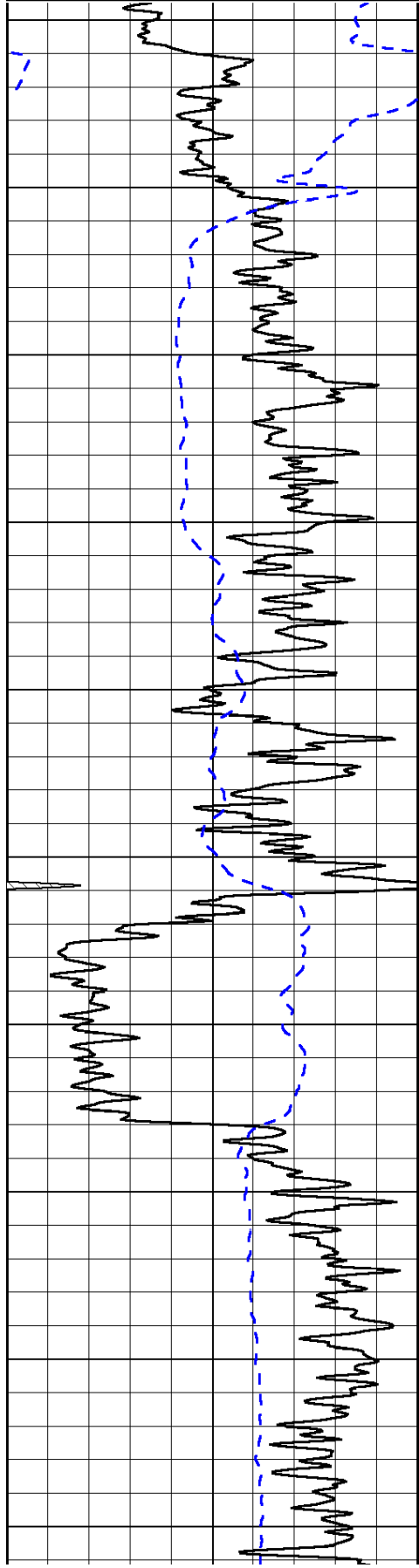
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

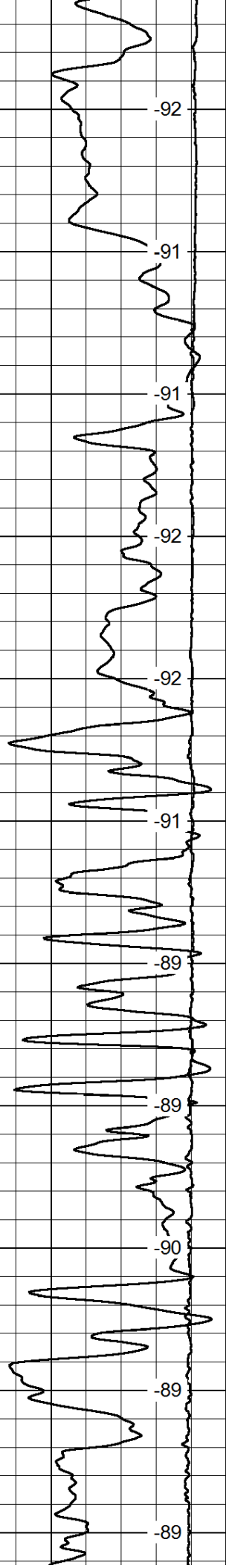
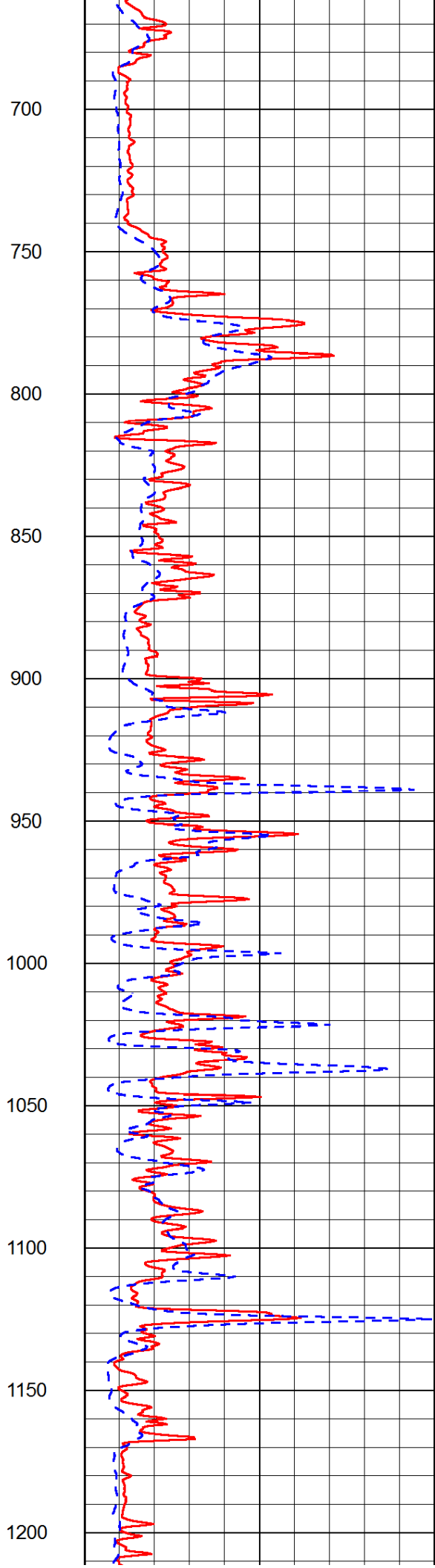
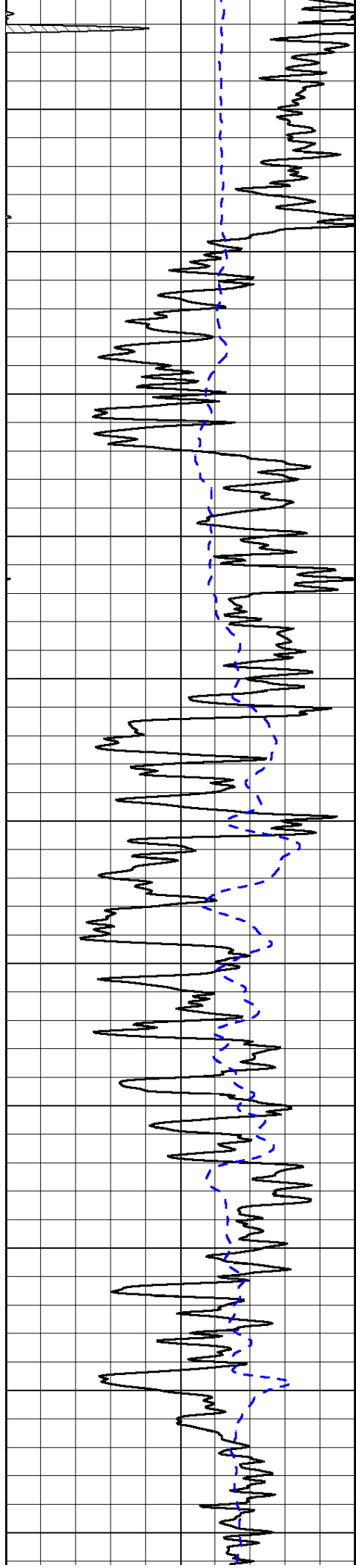
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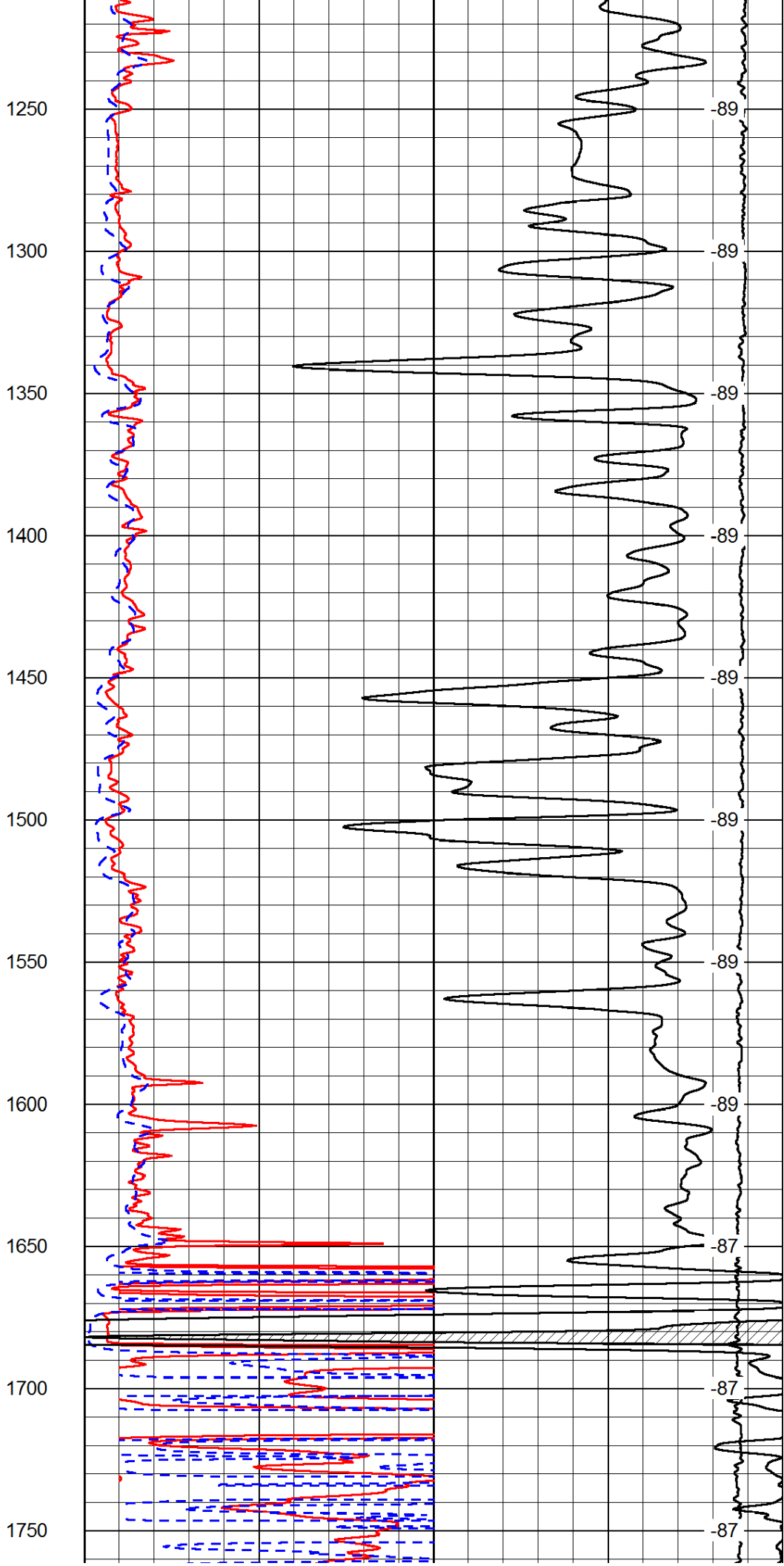
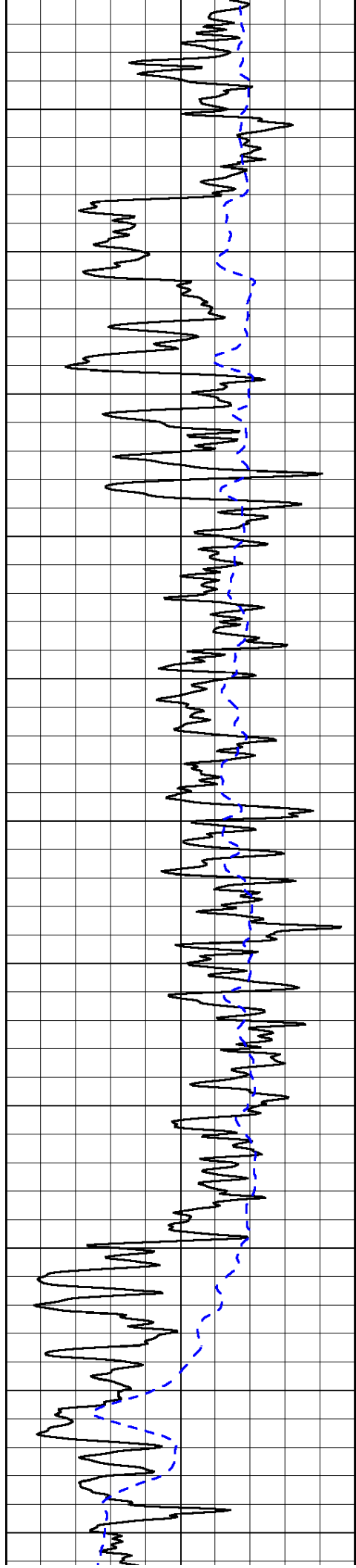
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Scott City,
North to Hwy 83 & Hwy 4 Junction,
7 1/4 West, South into

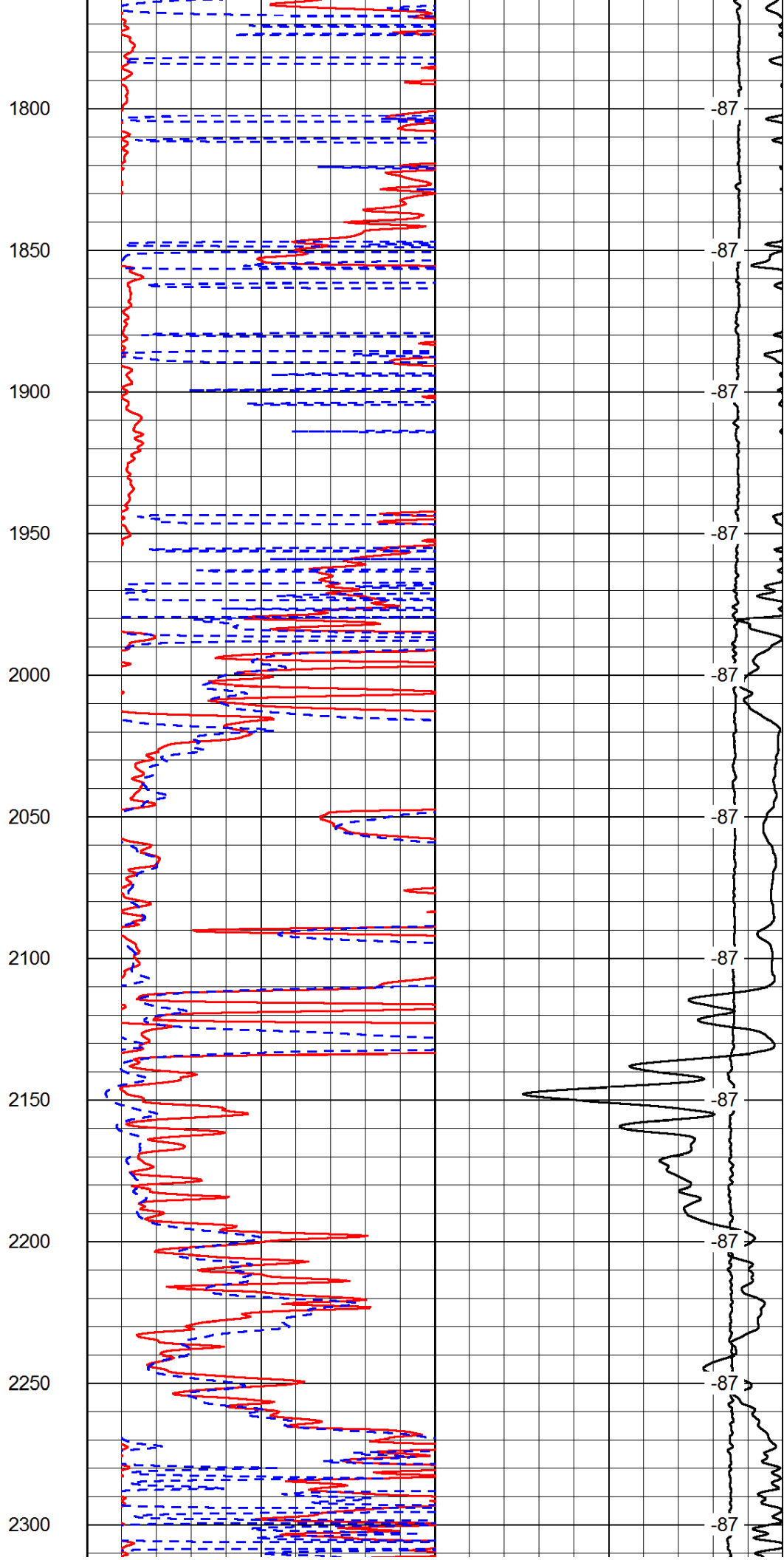
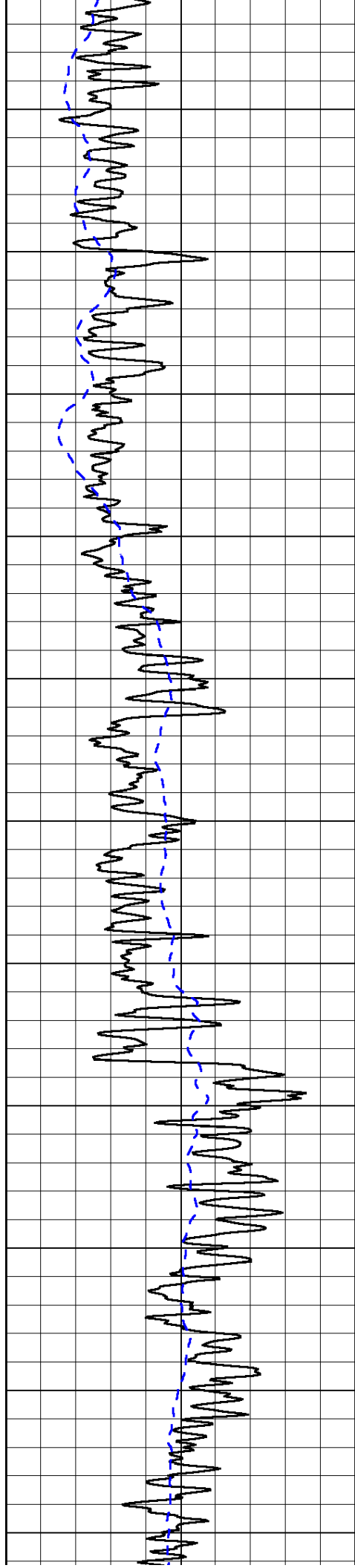
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Charted by: Depth in Feet scaled 1:600

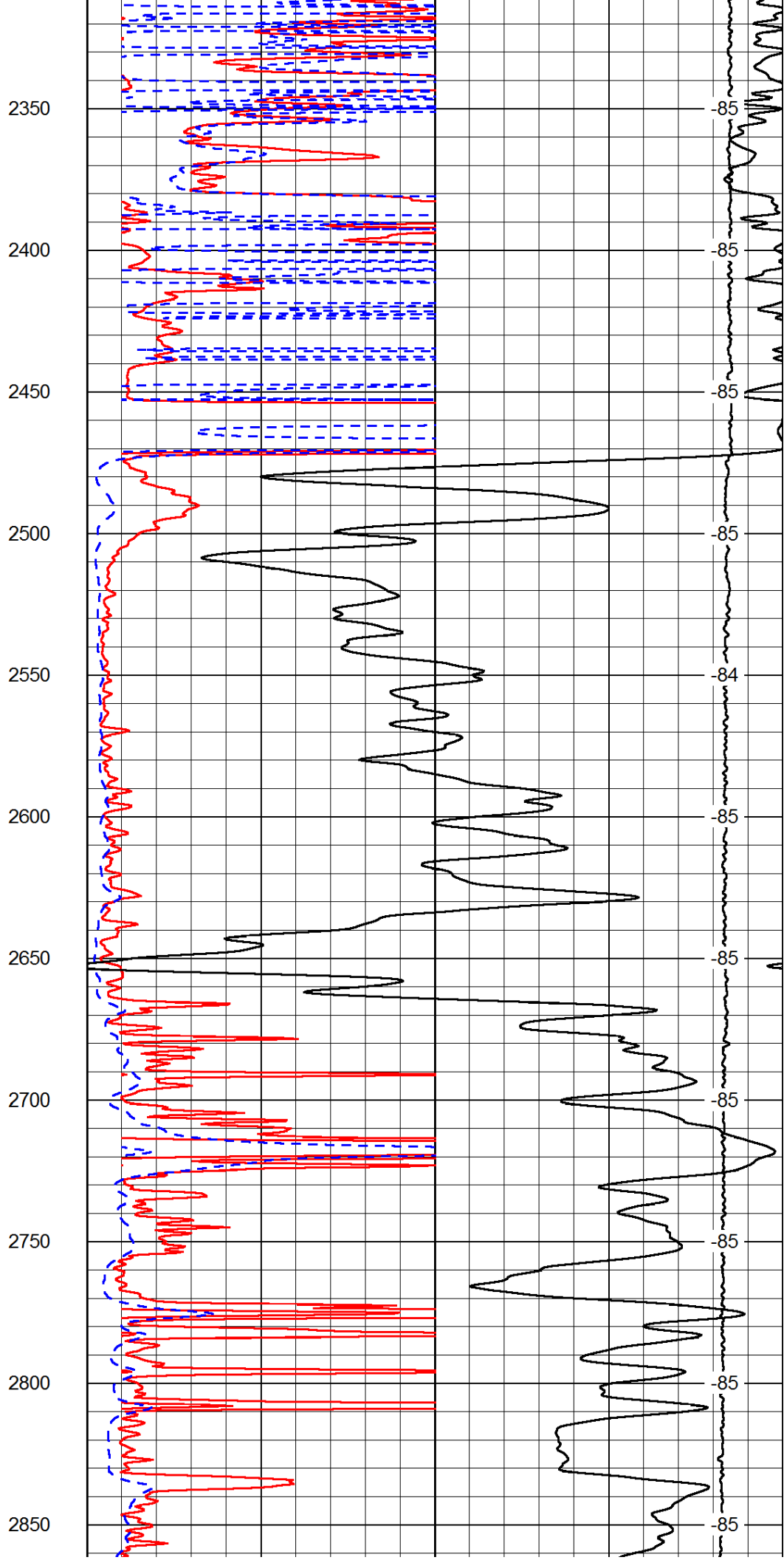
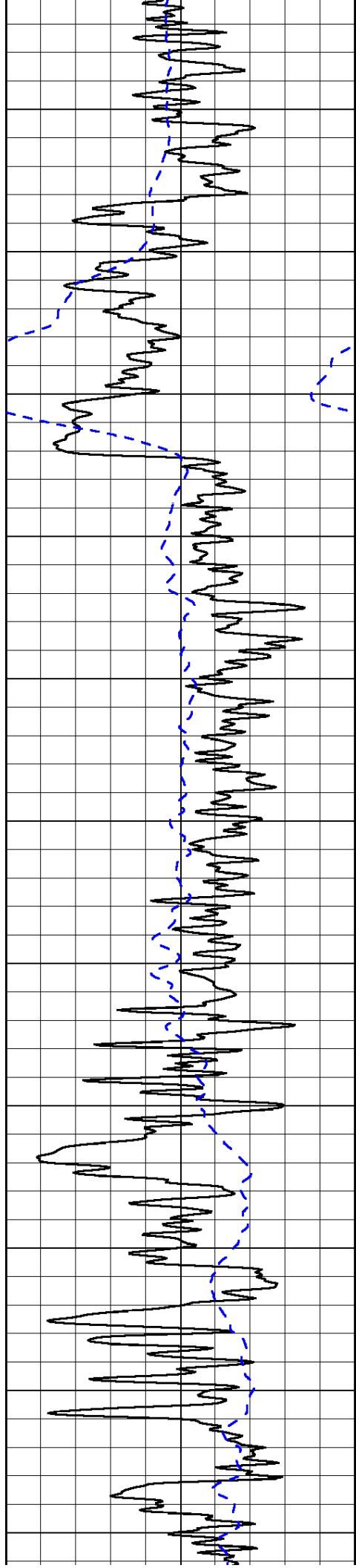
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-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

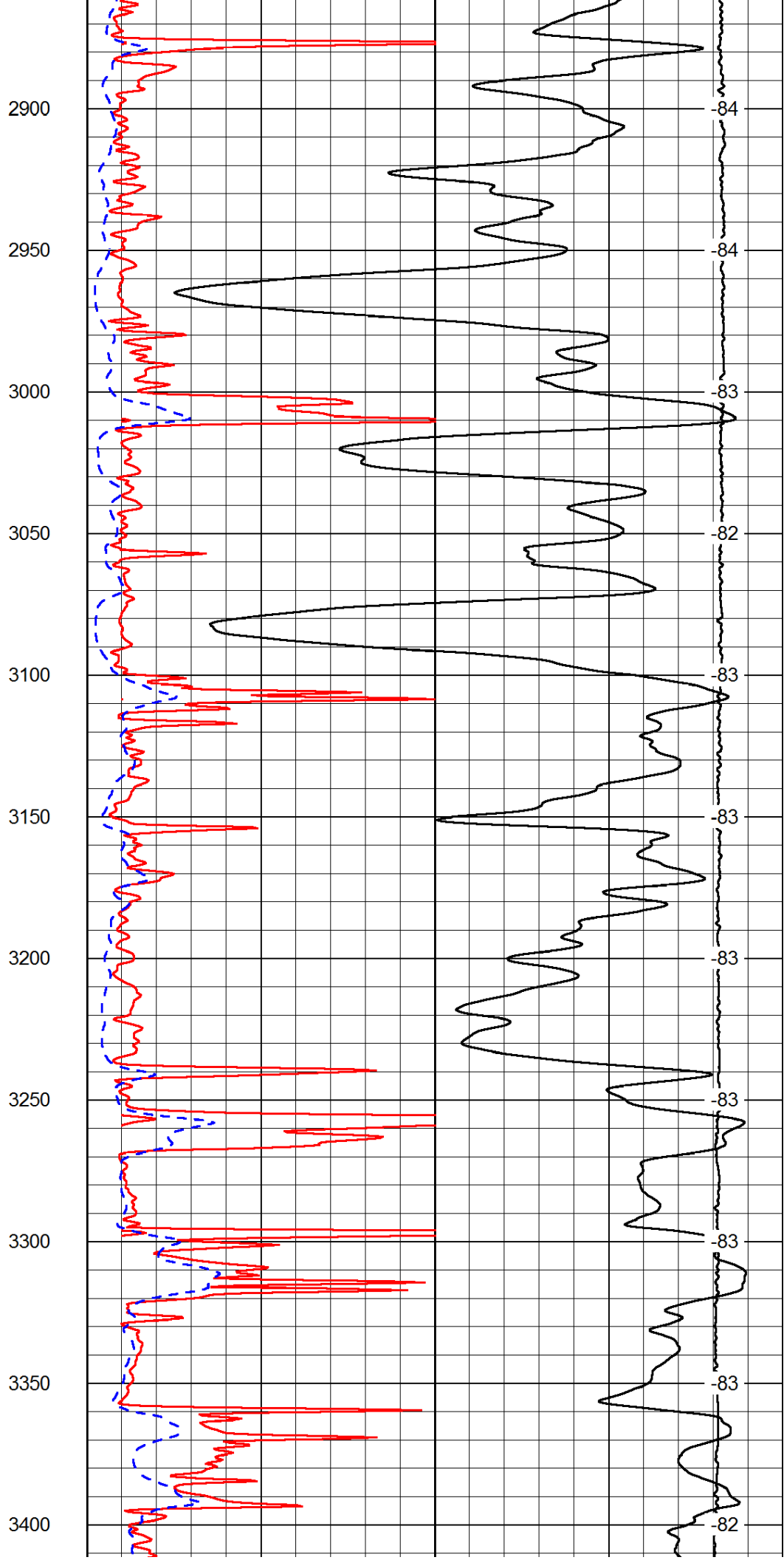
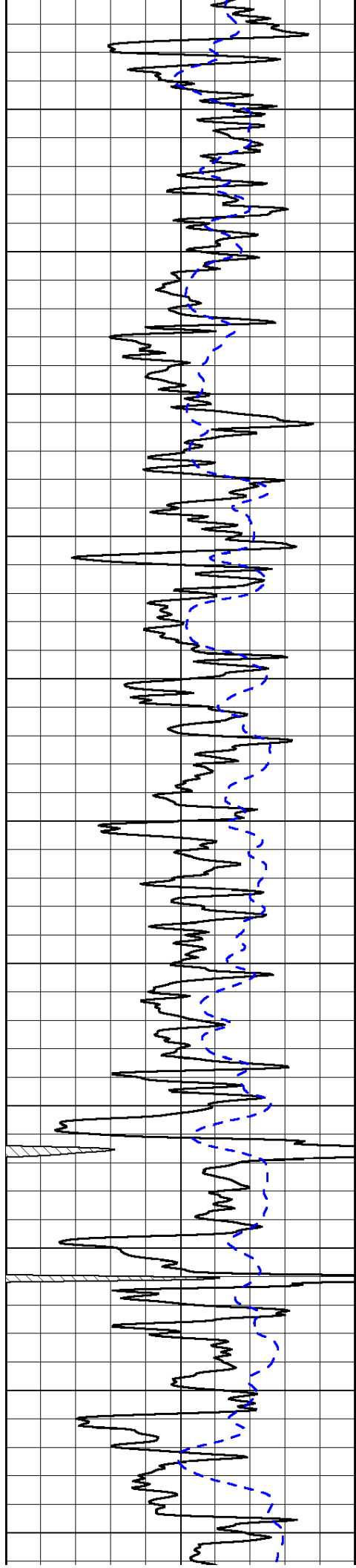


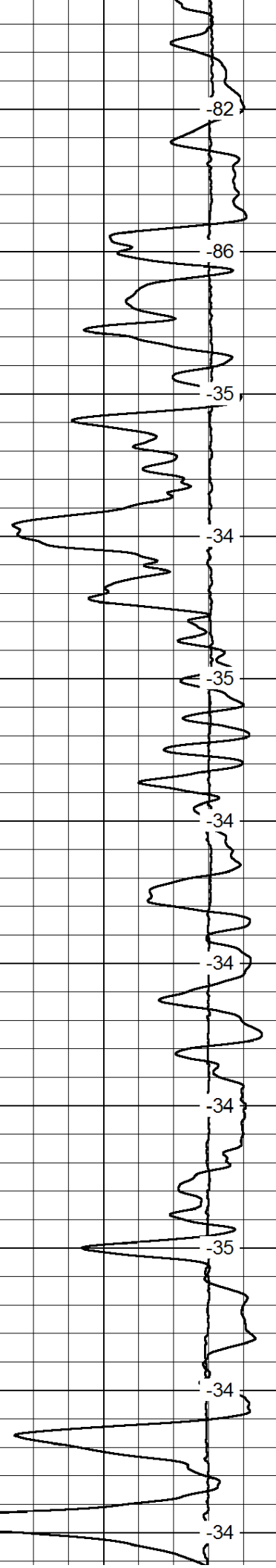
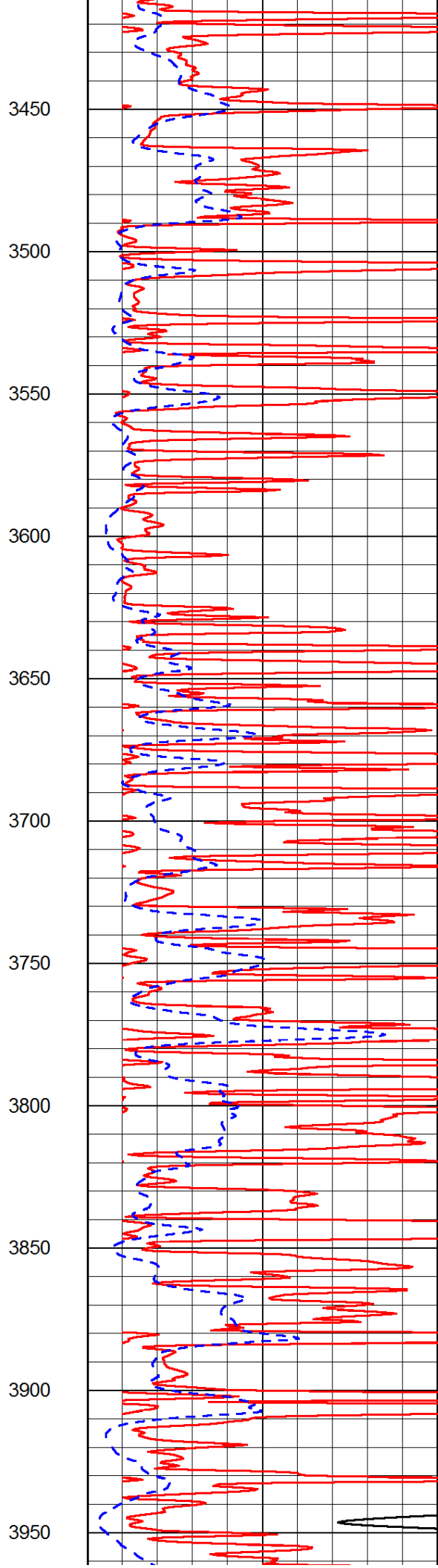
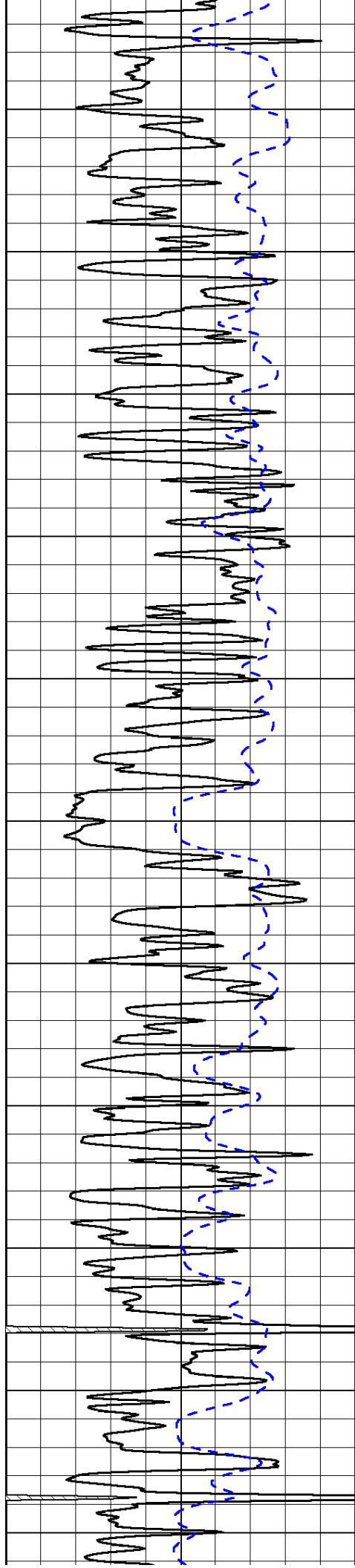


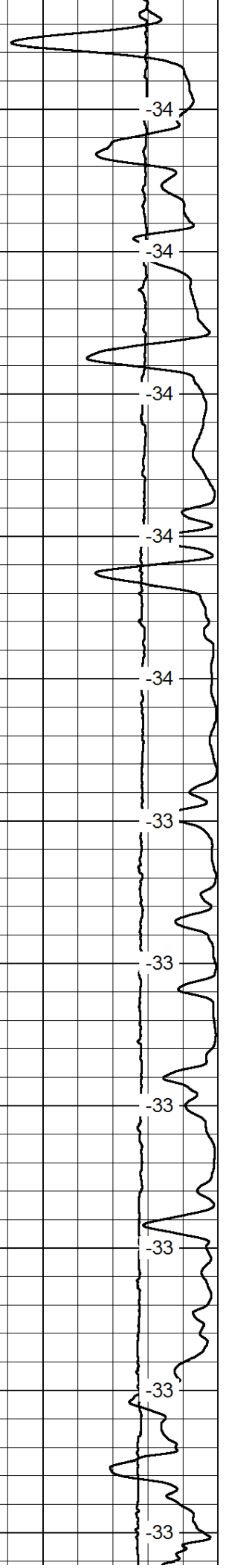
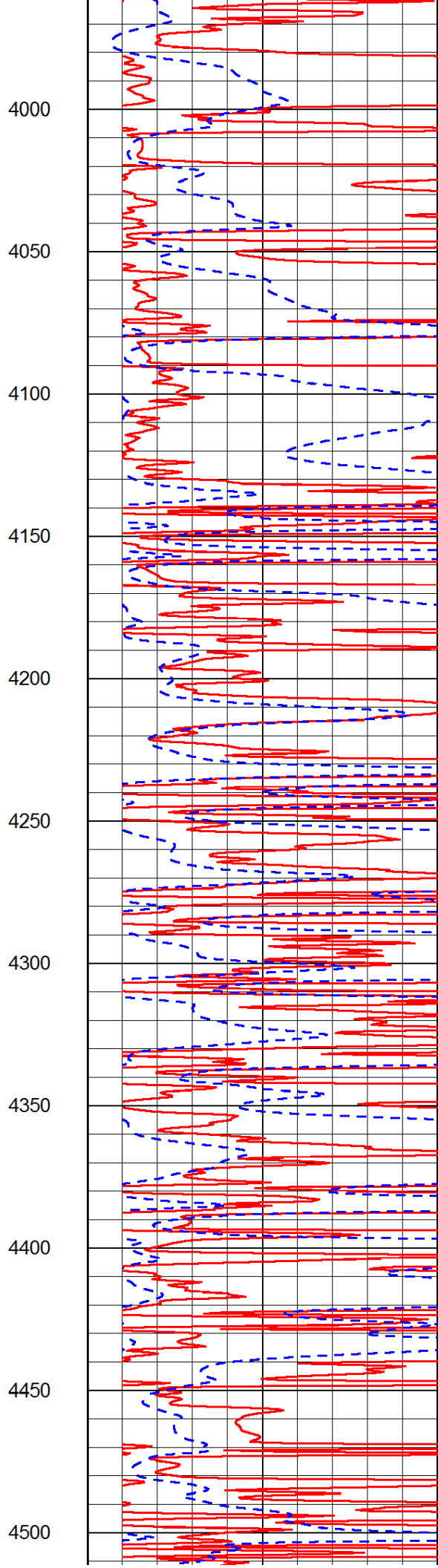
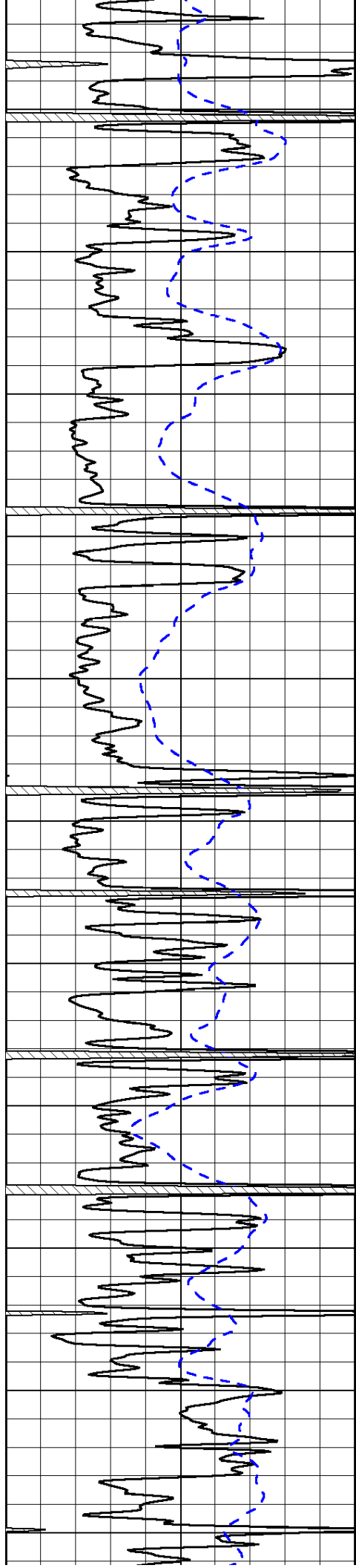


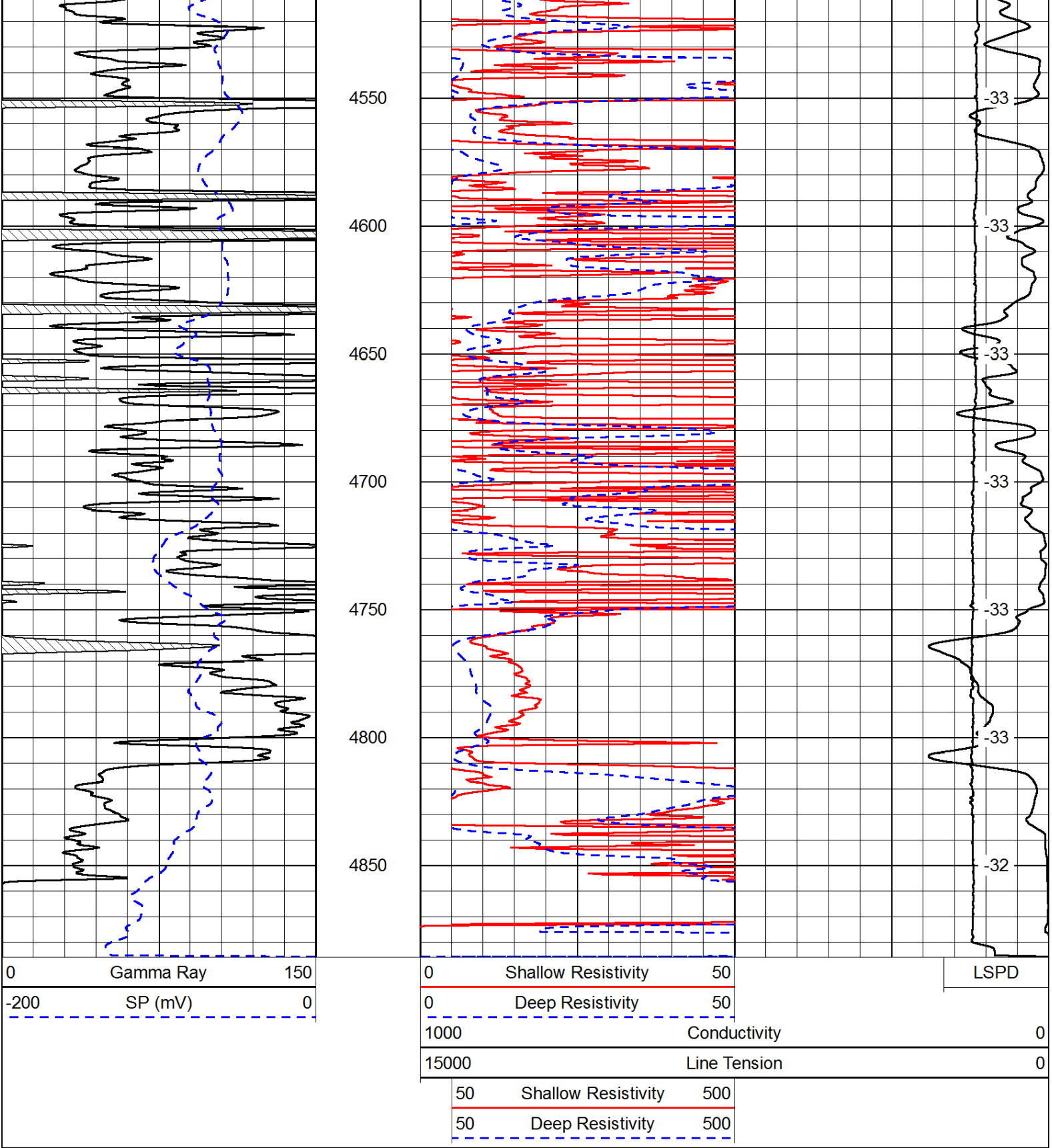






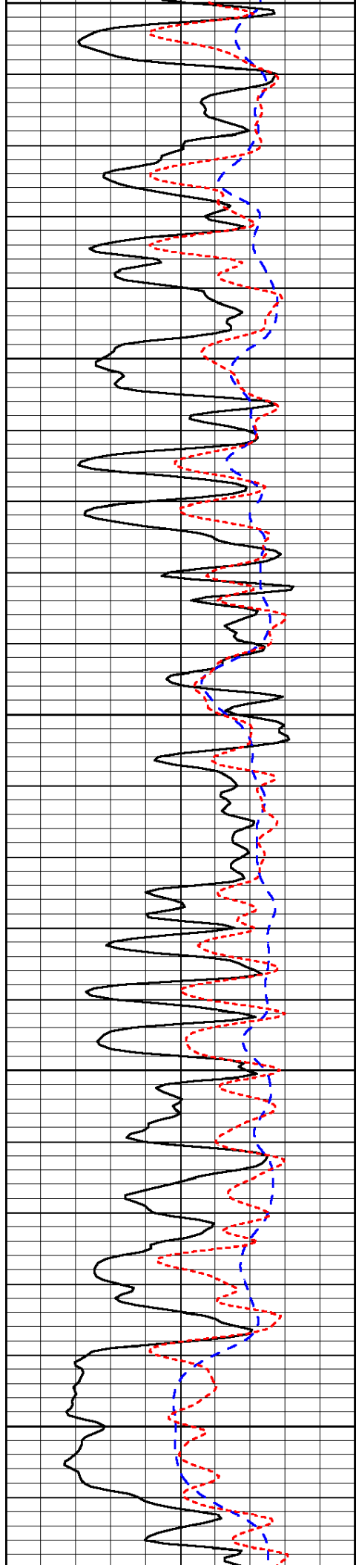




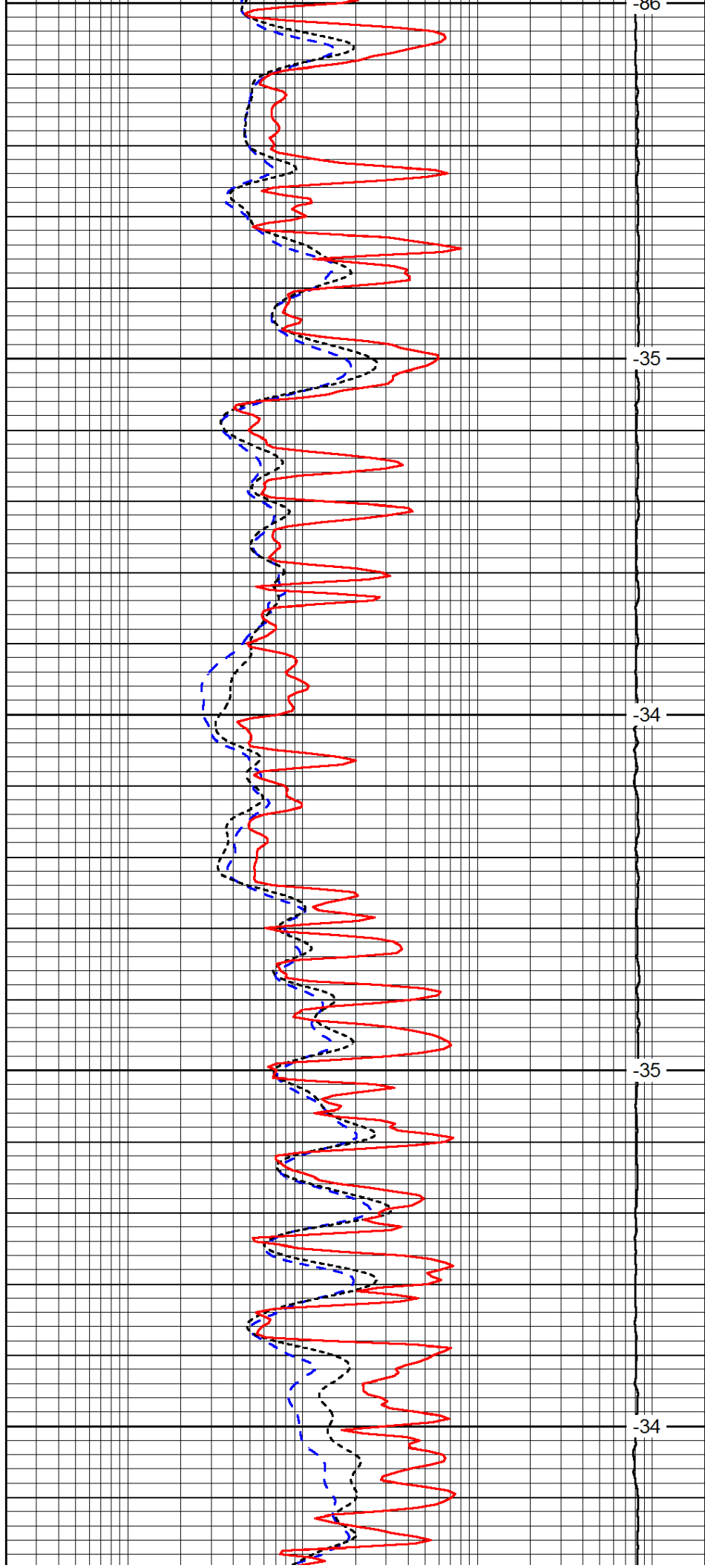


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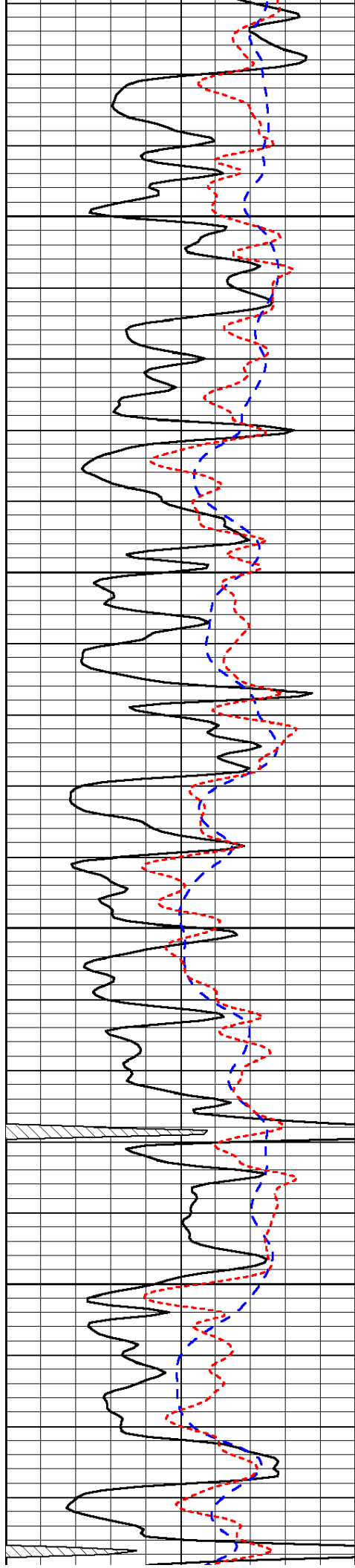
0	Gamma Ray	150	0.2	Deep Resistivity	2000
-200	SP (mV)	0	0.2	Medium Resistivity	2000
-160	RxoRt	40	0.2	Shallow Resistivity	2000



3500
3550
3600
3650
3700



-86
-35
-34
-35
-34

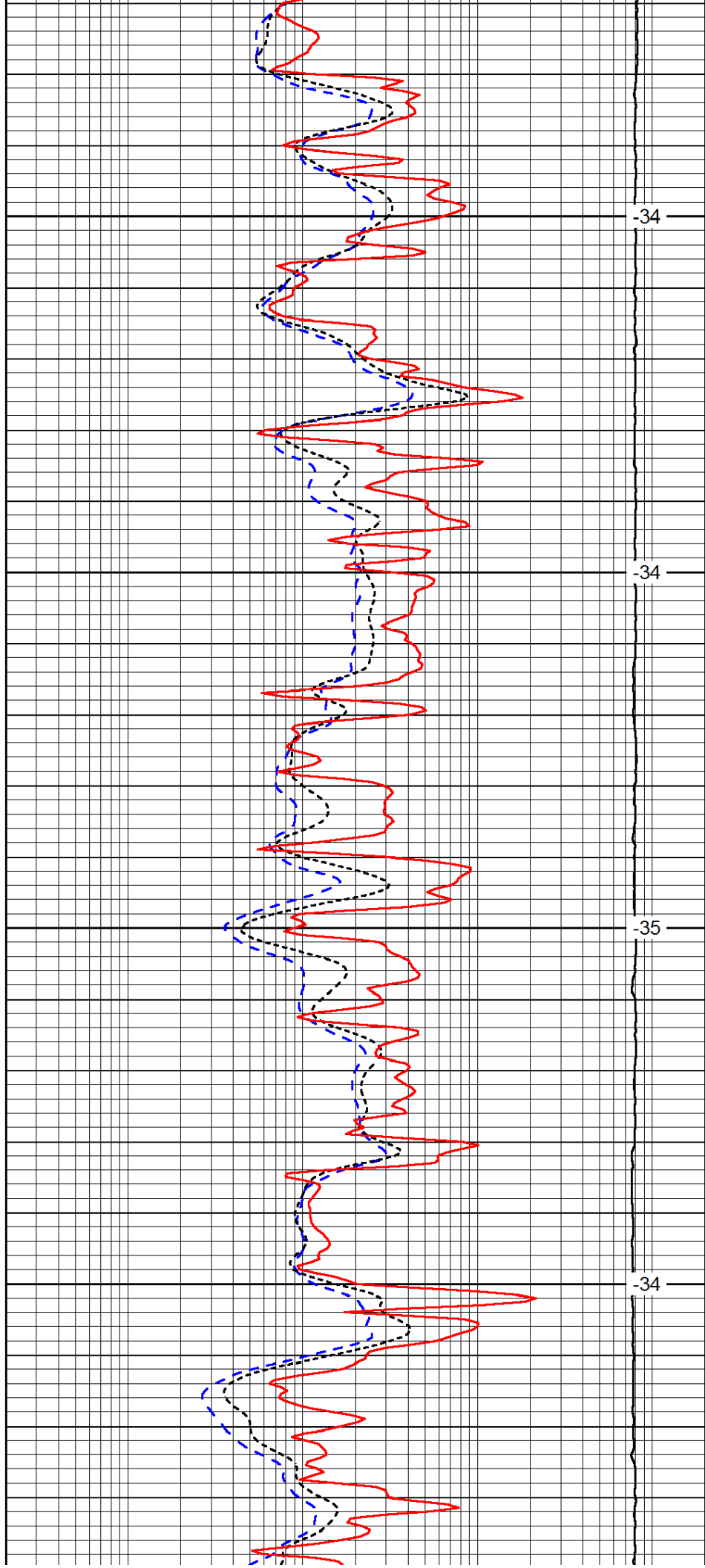


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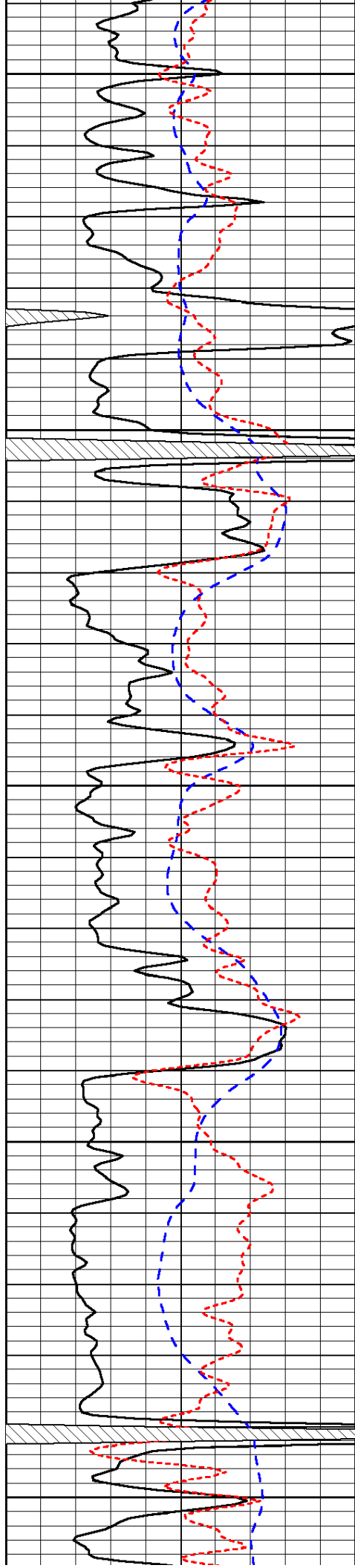


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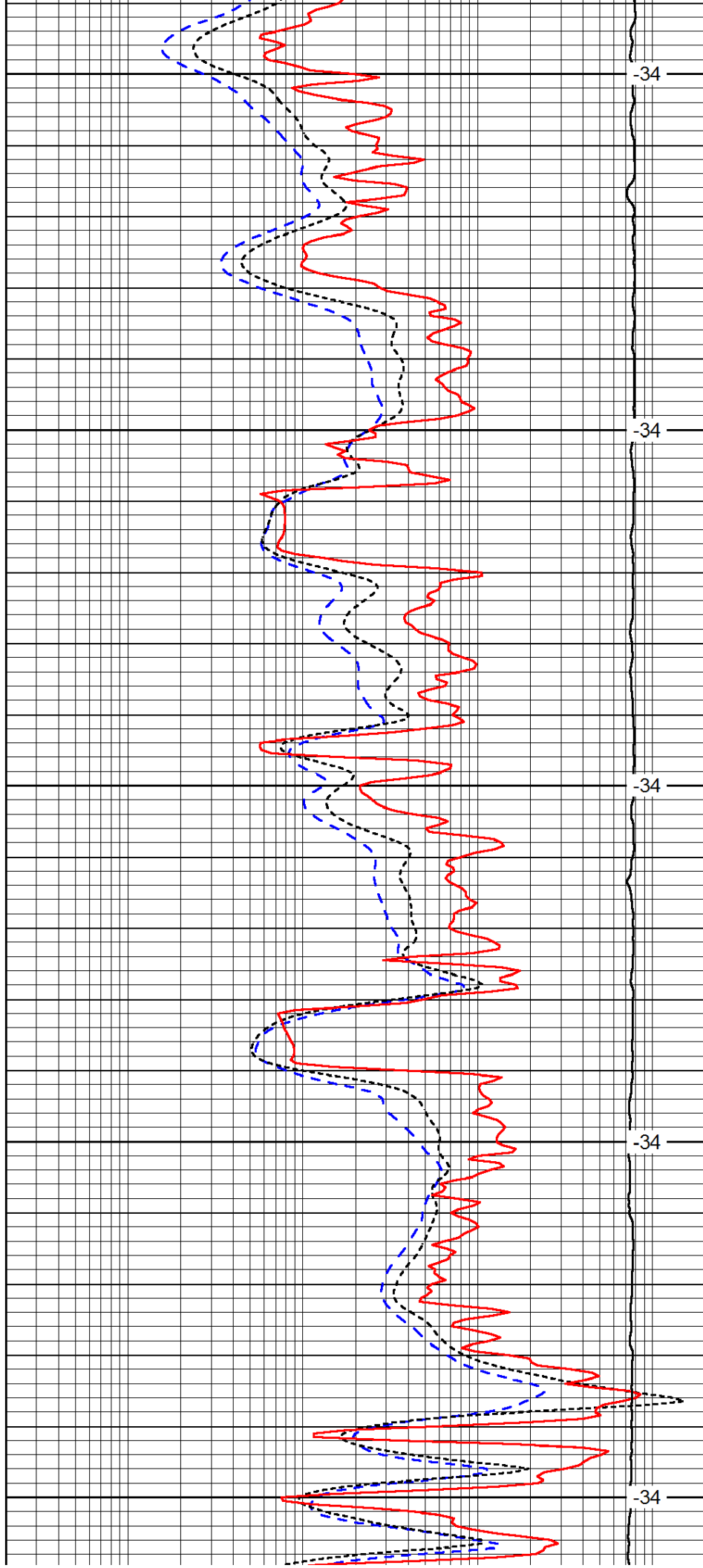
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4050

4100

4150



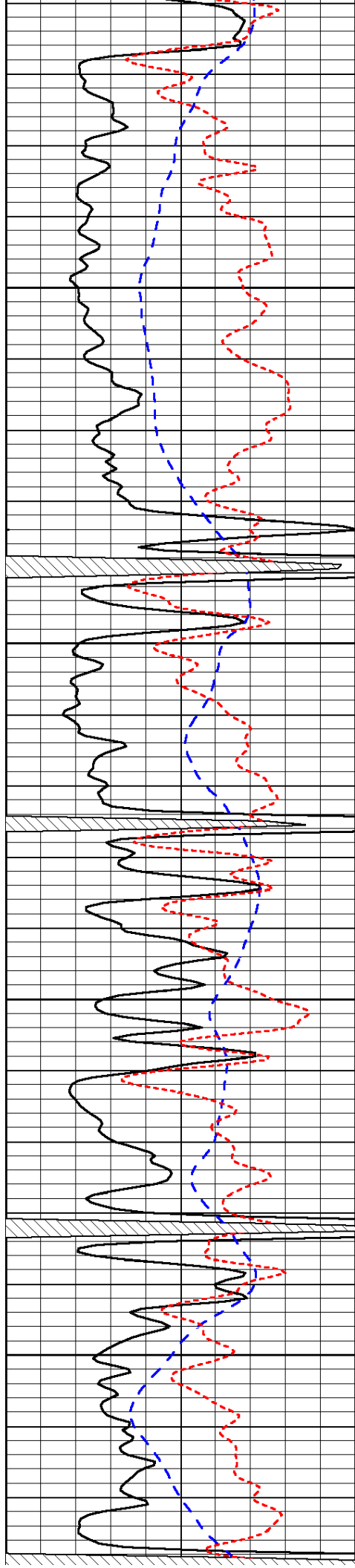
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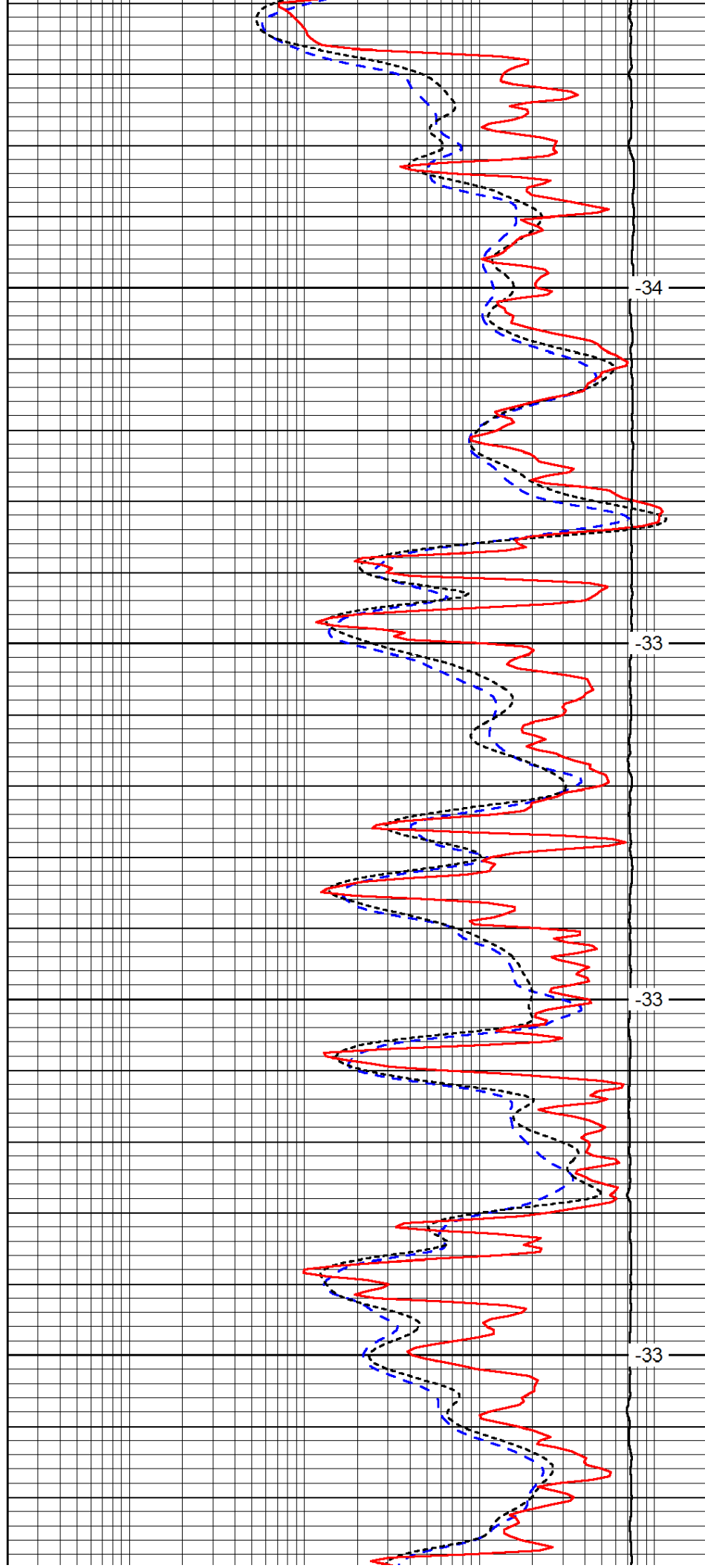


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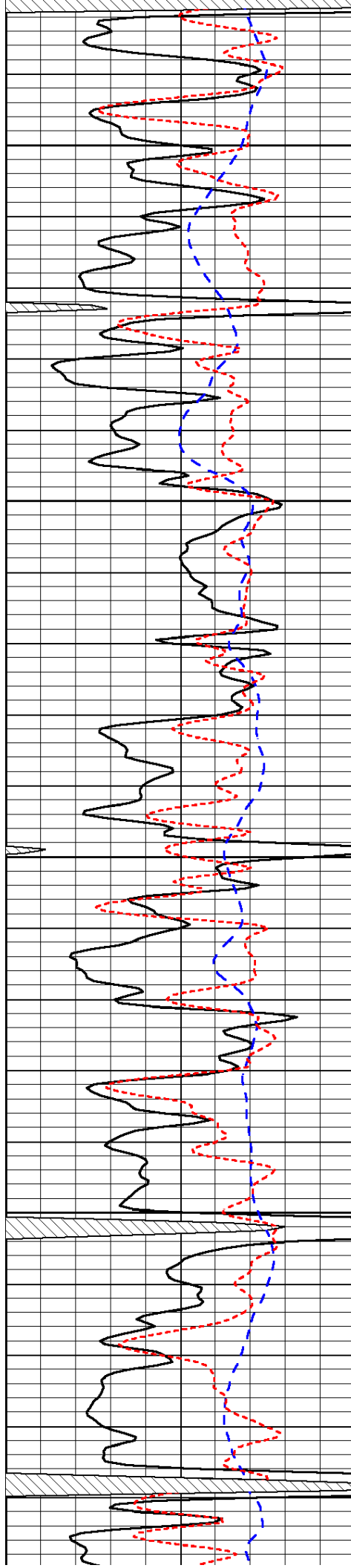


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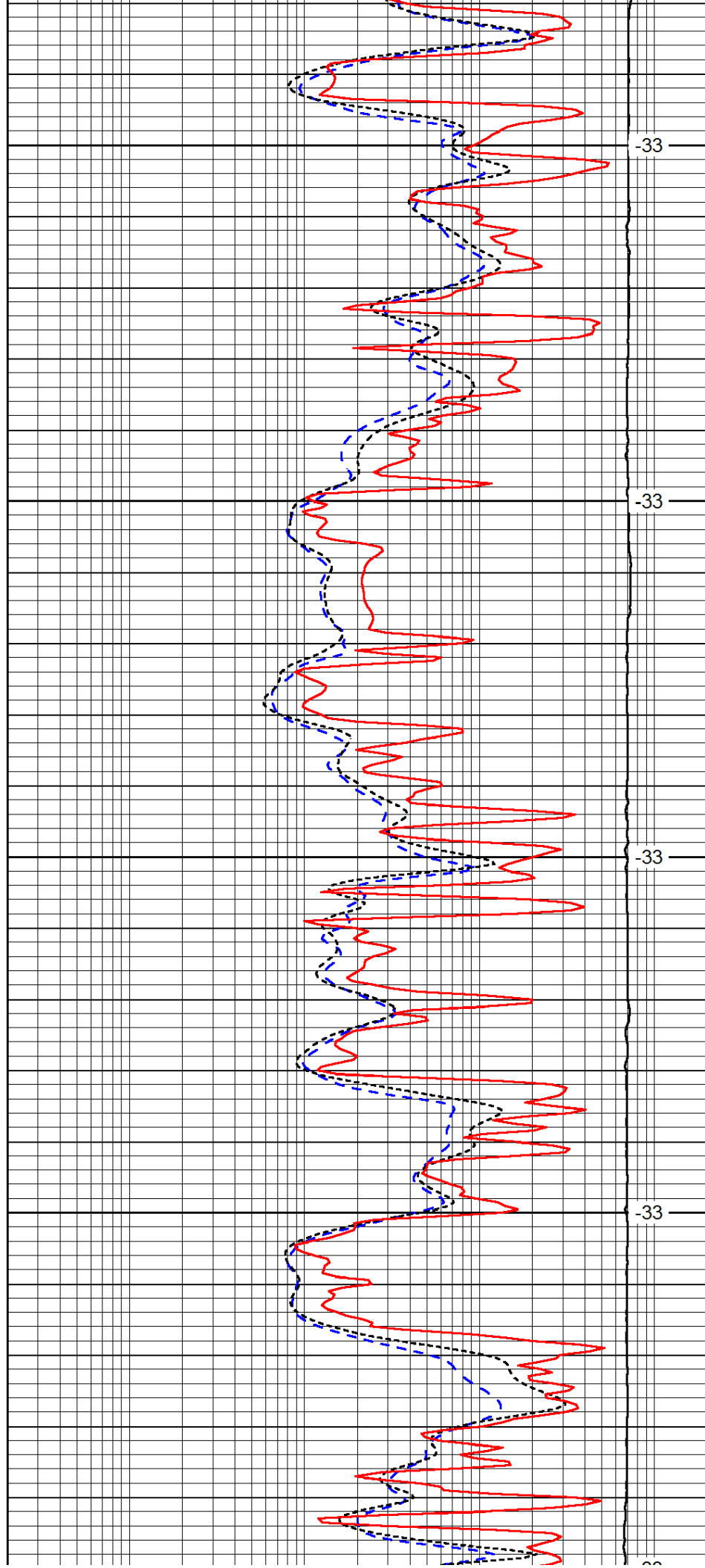
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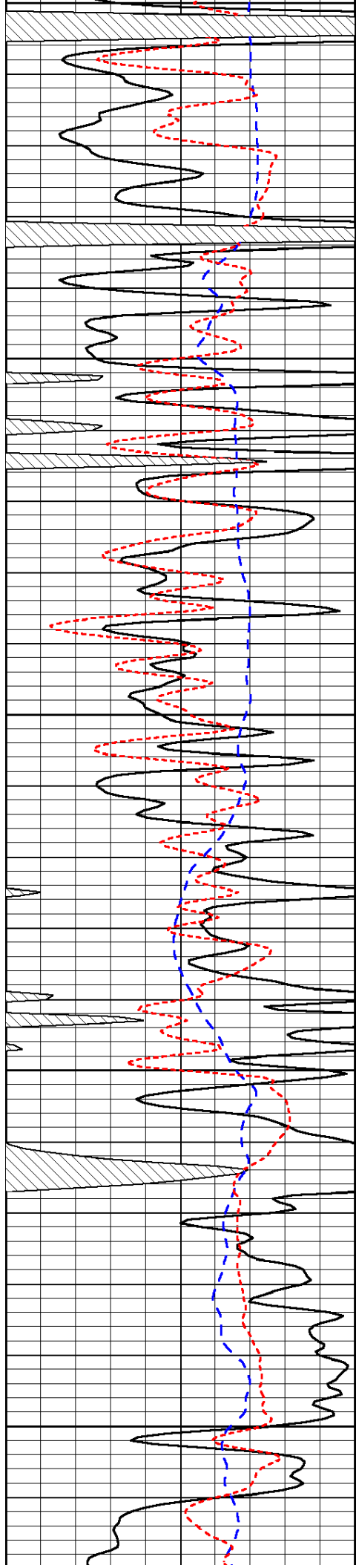
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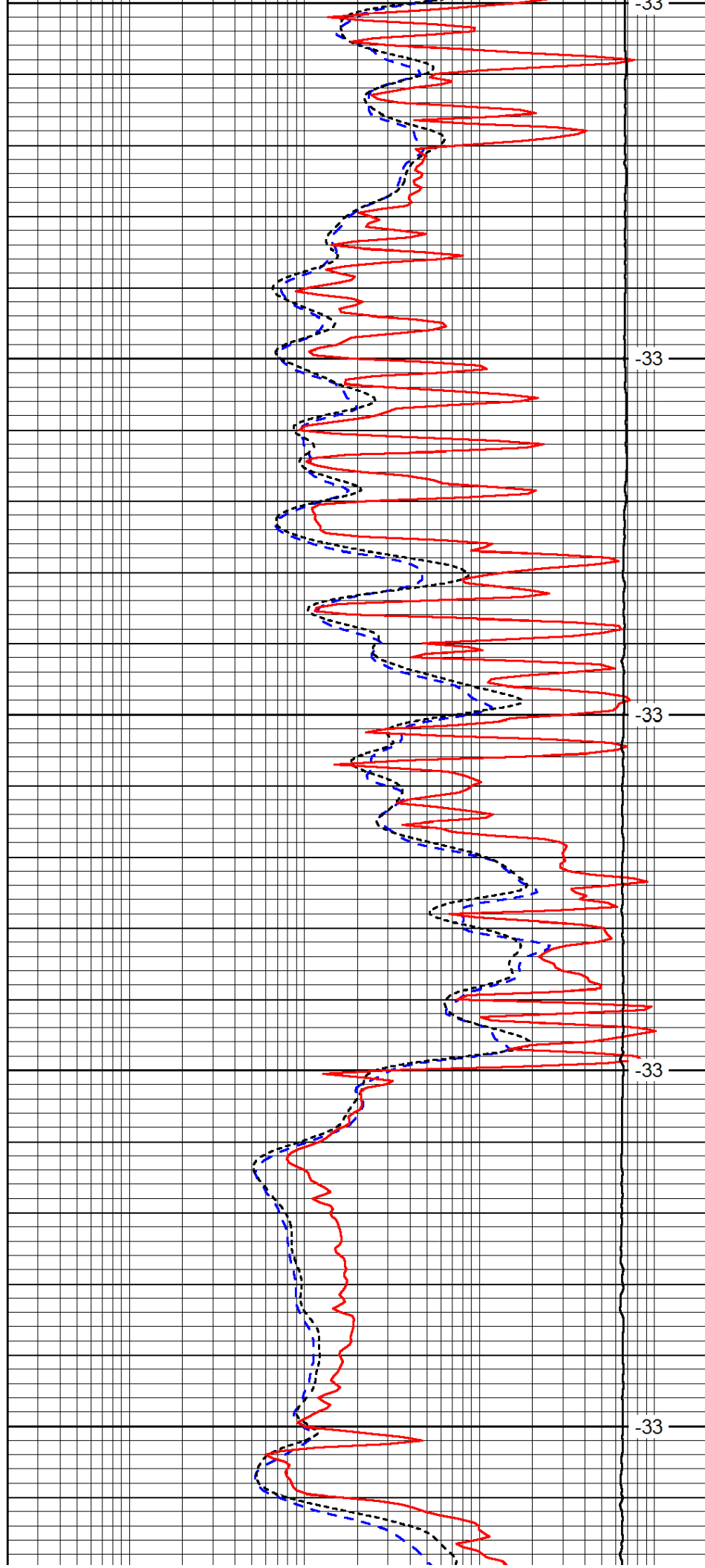
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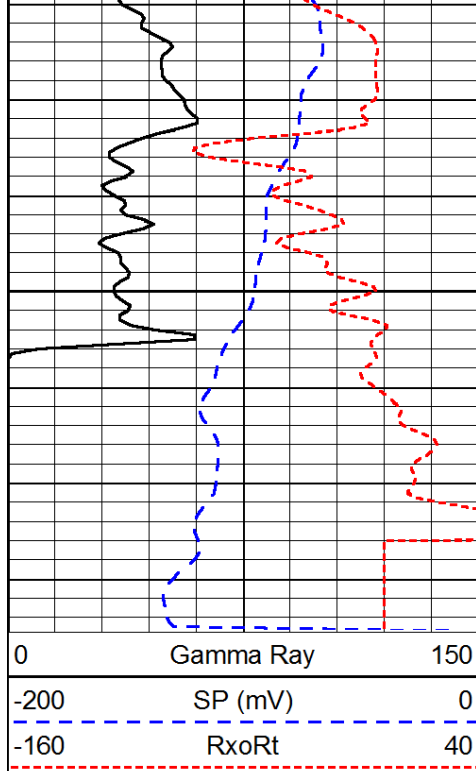
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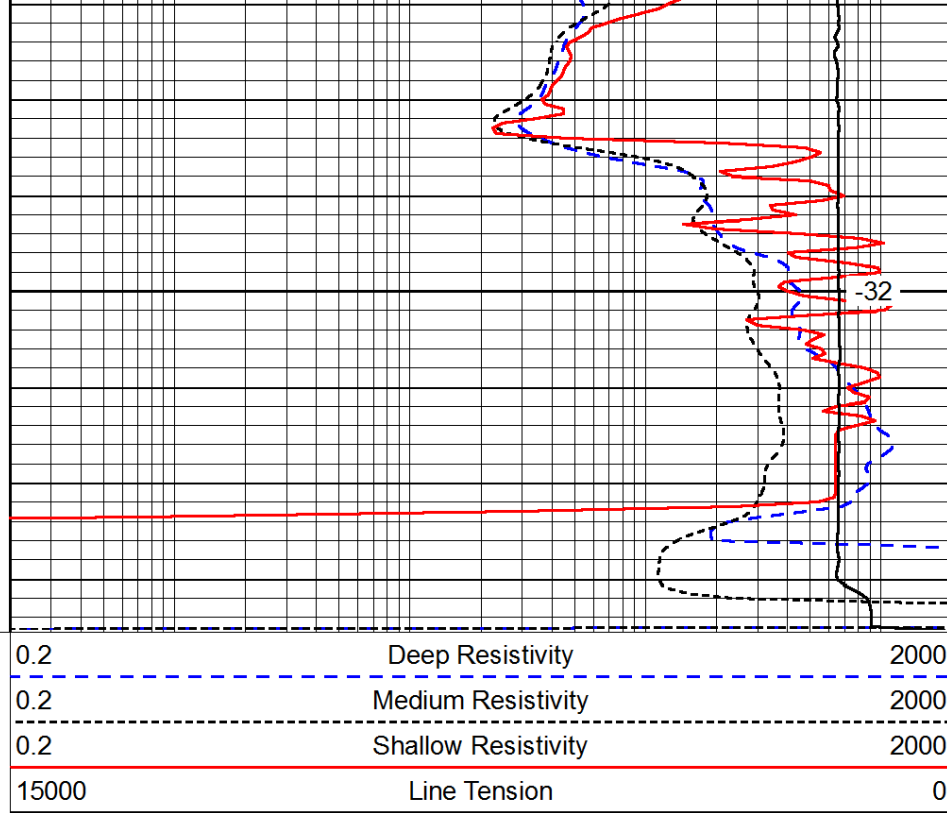
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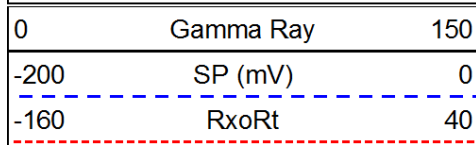
LSPD



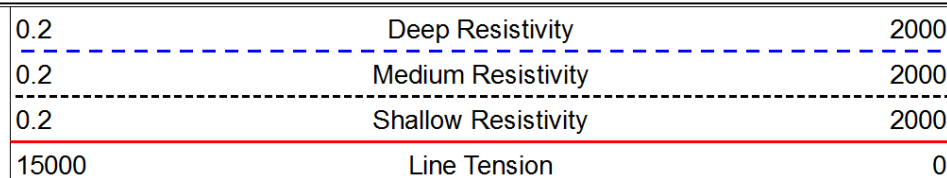
Pioneer Energy Services

Repeat Section

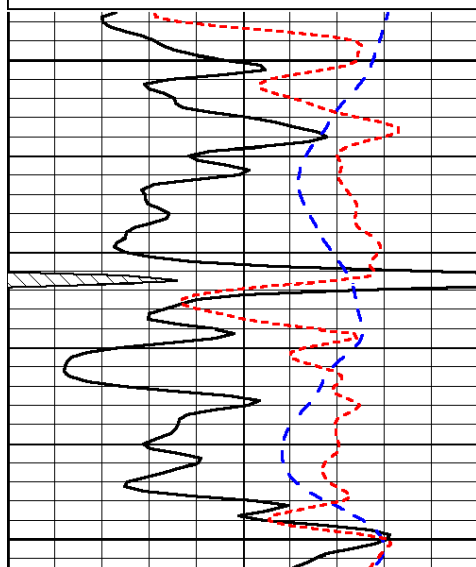
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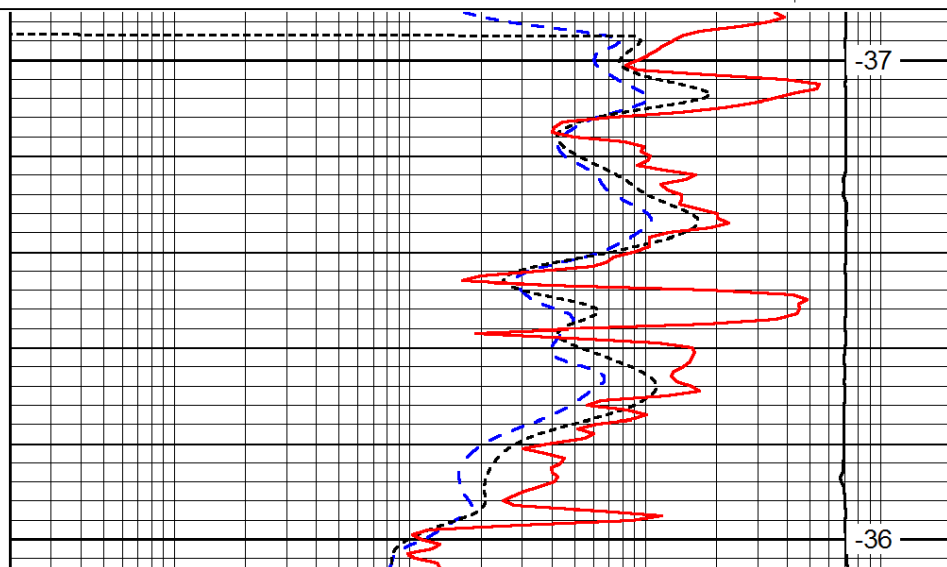
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LSPD

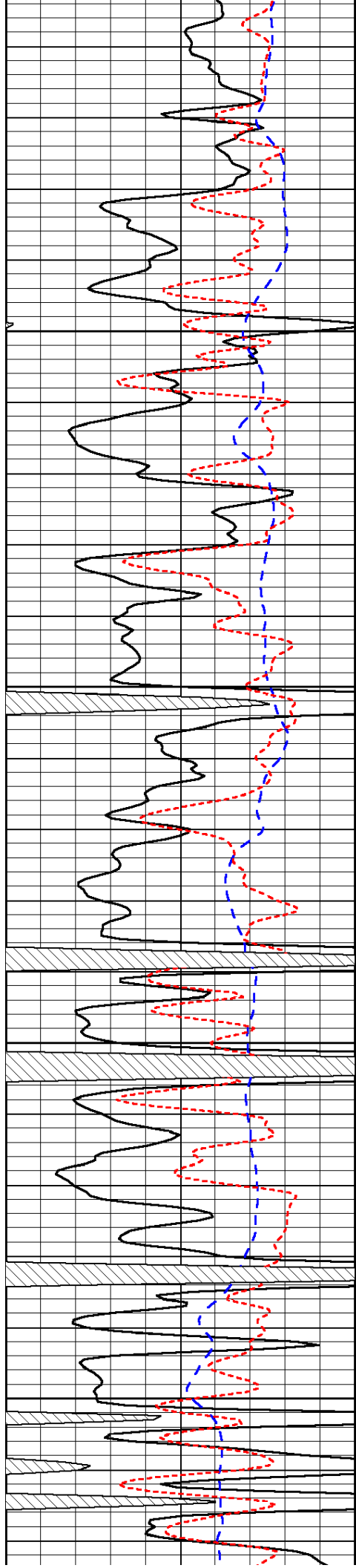


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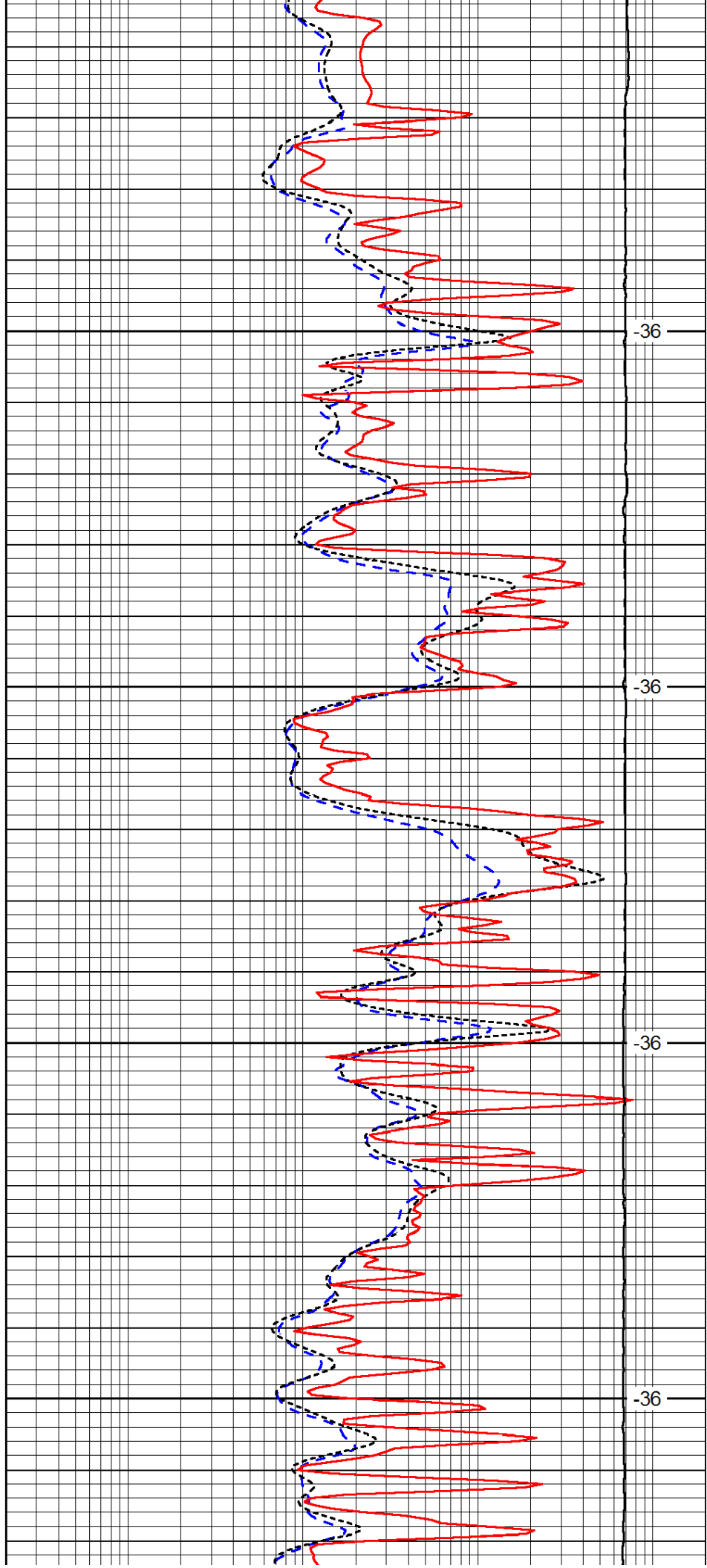


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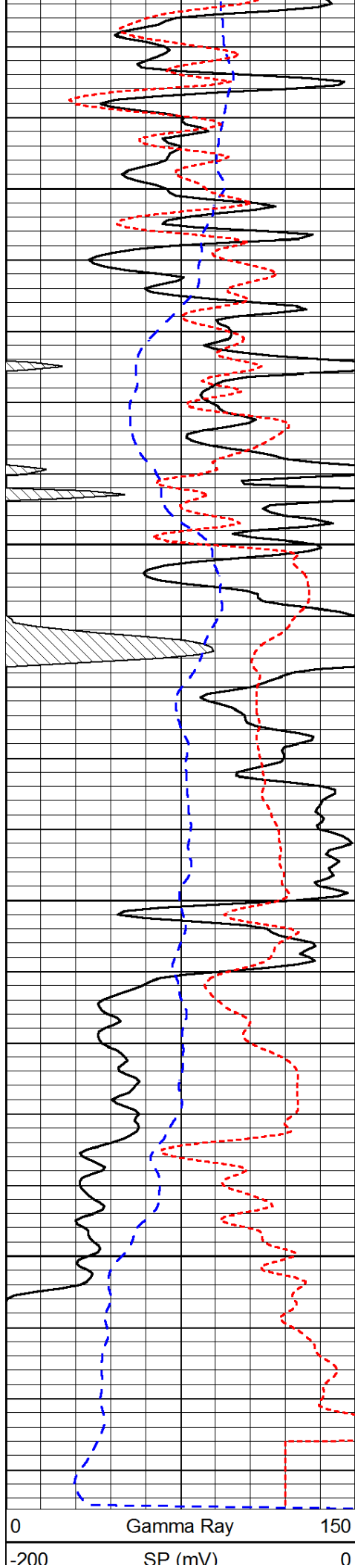


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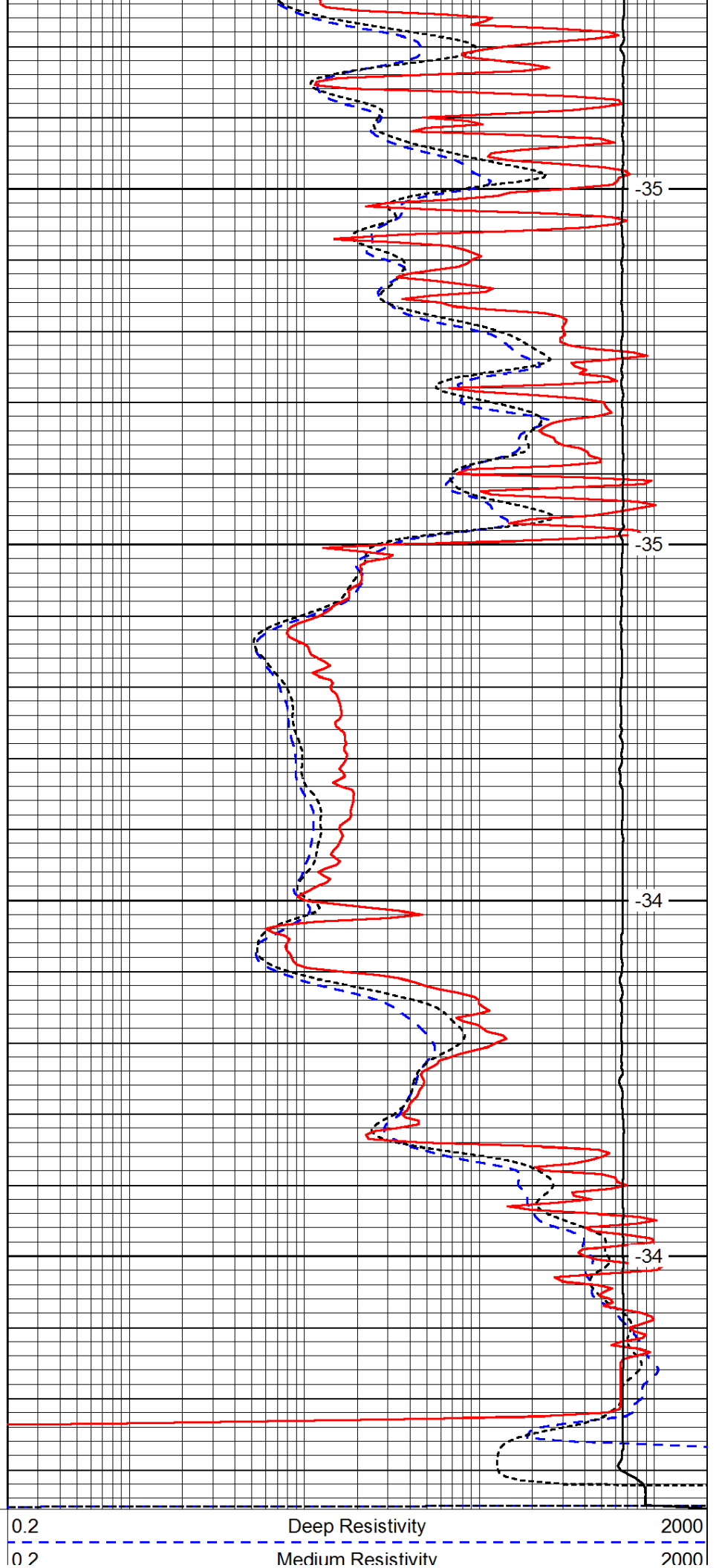


4700

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4800

4850



-35

-35

-34

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-160	RxoRt	40

0.2	Shallow Resistivity	2000
15000	Line Tension	0
		LSPD