



Dual Induction Log

Pioneer Energy Services

API No.	Company Landmark Resources, Inc.			
	Well Janzen Unit #1-1			
	Field Wildcat			
	County	Scott	State	Kansas
15-171-21,069-00-00	Location	1627' FSL & 320' FEL		
	Sec: 1	Twp: 17S	Rge: 34W	Other Services CNL/CDL MEL/BHCS
	Permanent Datum	Ground Level	Elevation 3091	Elevation
	Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	K.B. 3102 D.F. G.L. 3091
Drilling Measured From Kelly Bushing				
Date	5/30/2014			
Run Number	One			
Depth Driller	4820			
Depth Logger	4823			
Bottom Logged Interval	4822			
Top Log Interval	250			
Casing Driller	8.625 @ 267			
Casing Logger	265			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	4500			
Density / Viscosity	9.3 57			
pH / Fluid Loss	10.5 8.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.34 @ 81			
Rmf @ Meas. Temp	0.26 @ 81			
Rmc @ Meas. Temp	0.46 @ 81			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.22 @ 124			
Operating Rig Time	5 Hours			
Max Rec. Temp. F	124			
Equipment Number	15			
Location	Hays			
Recorded By	D. Kerr			
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.

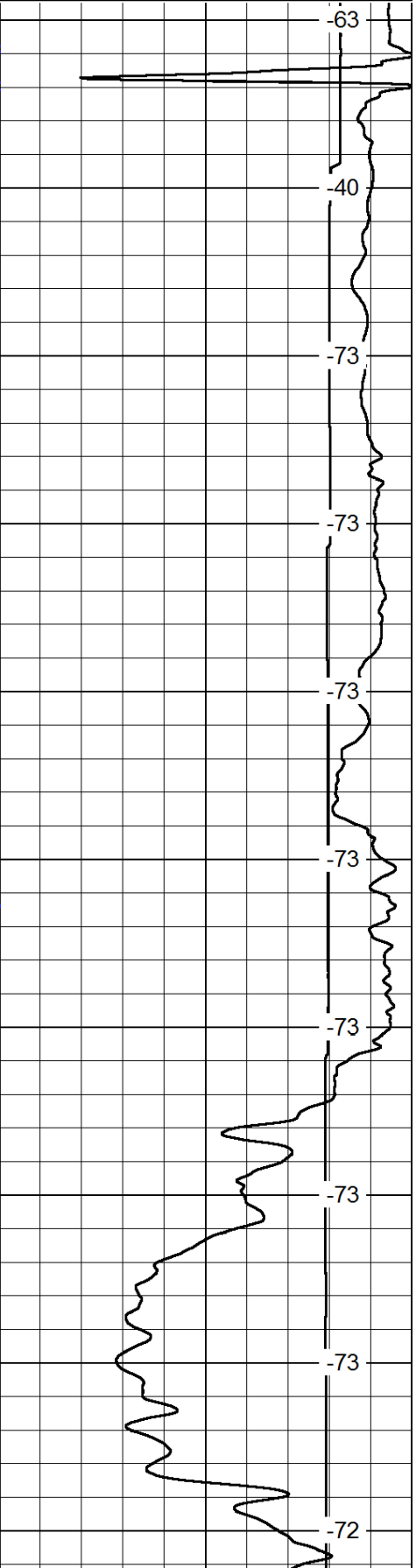
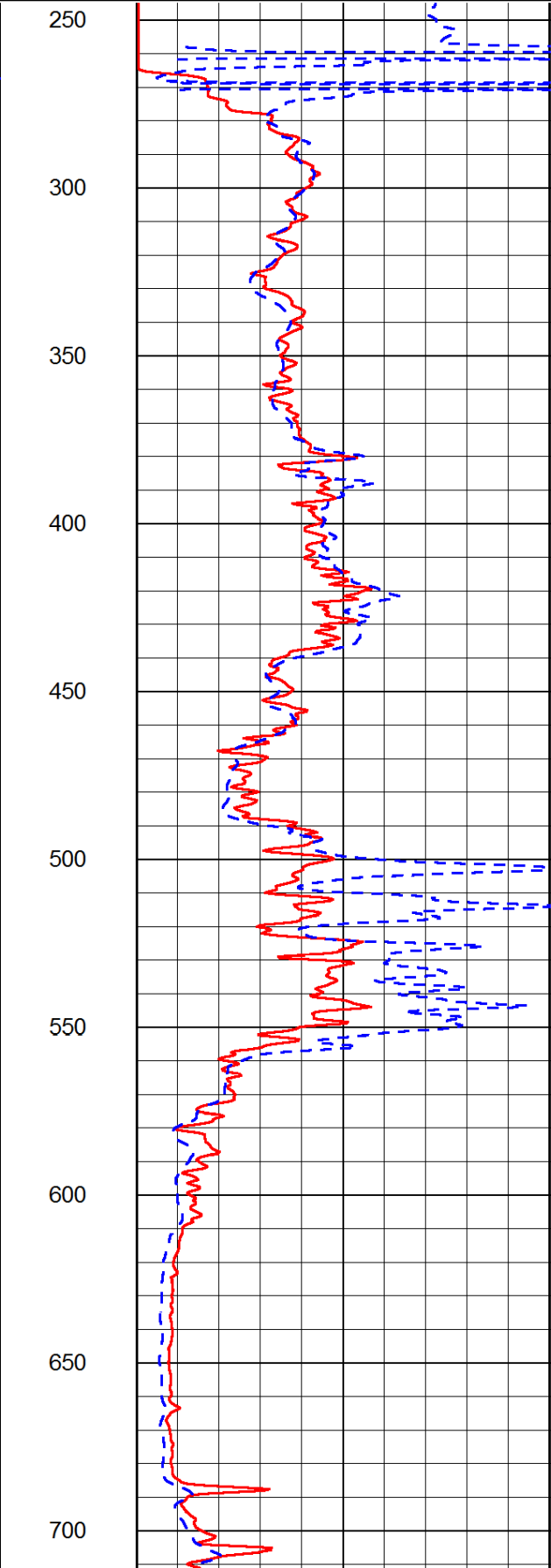
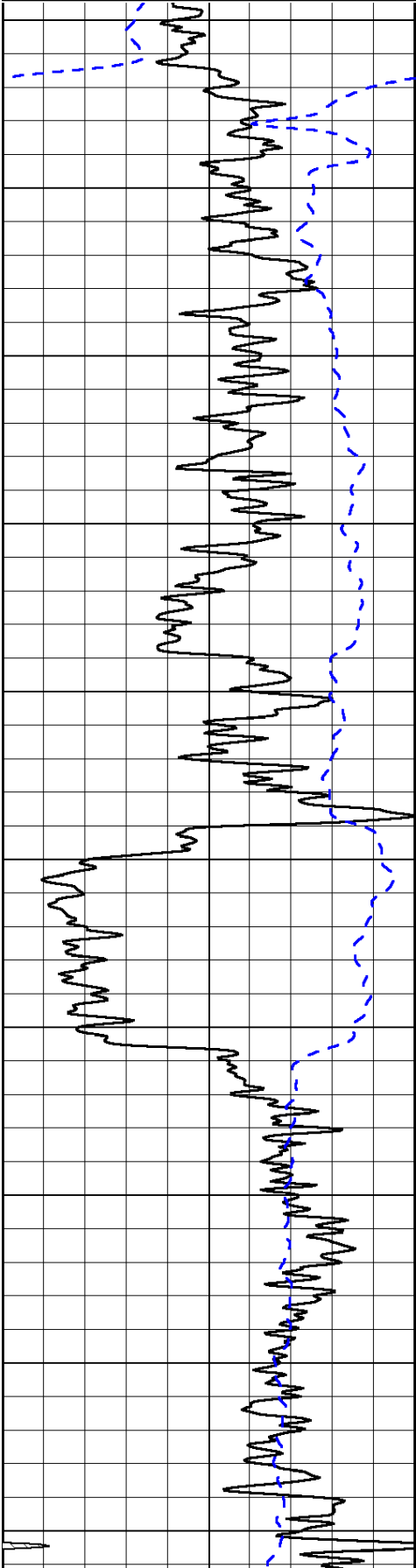
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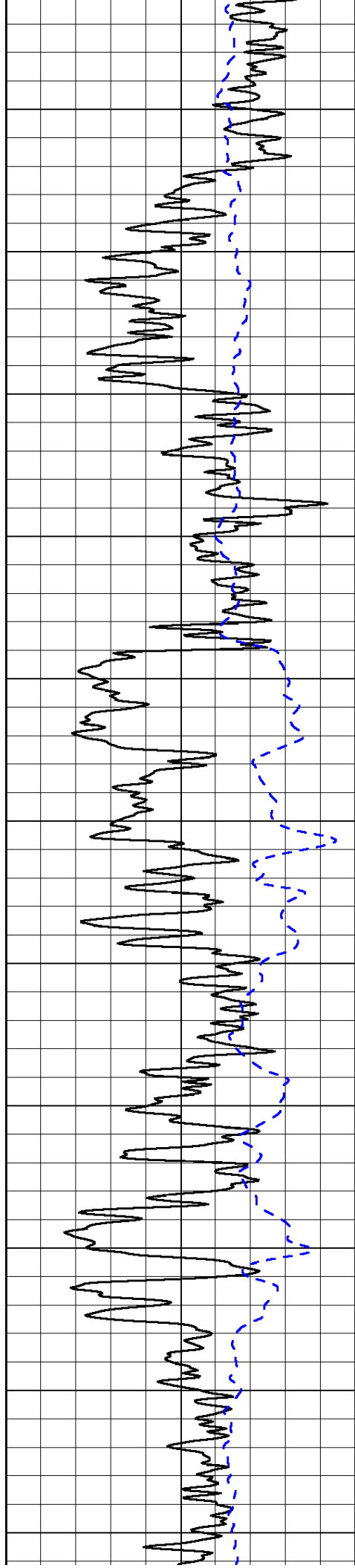
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Oakley KS, South to HWY 4 and HWY 83,
6 West, 1/2 North, West Into

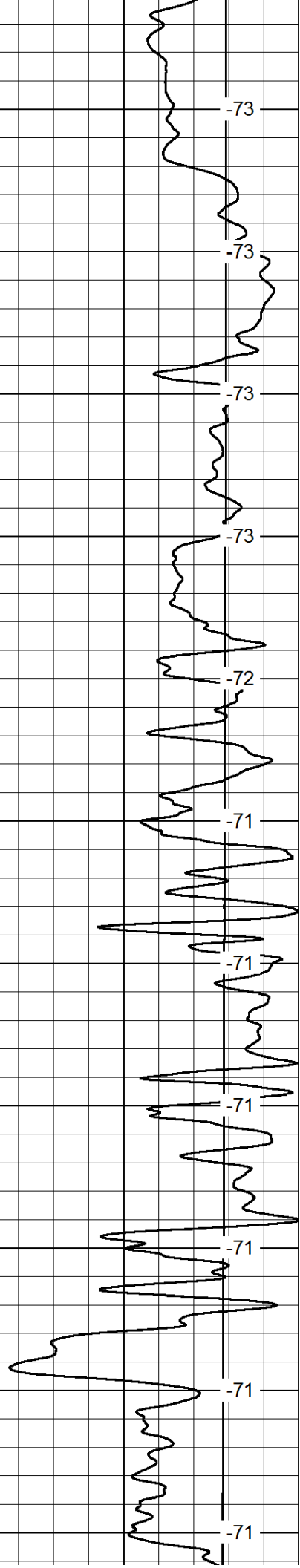
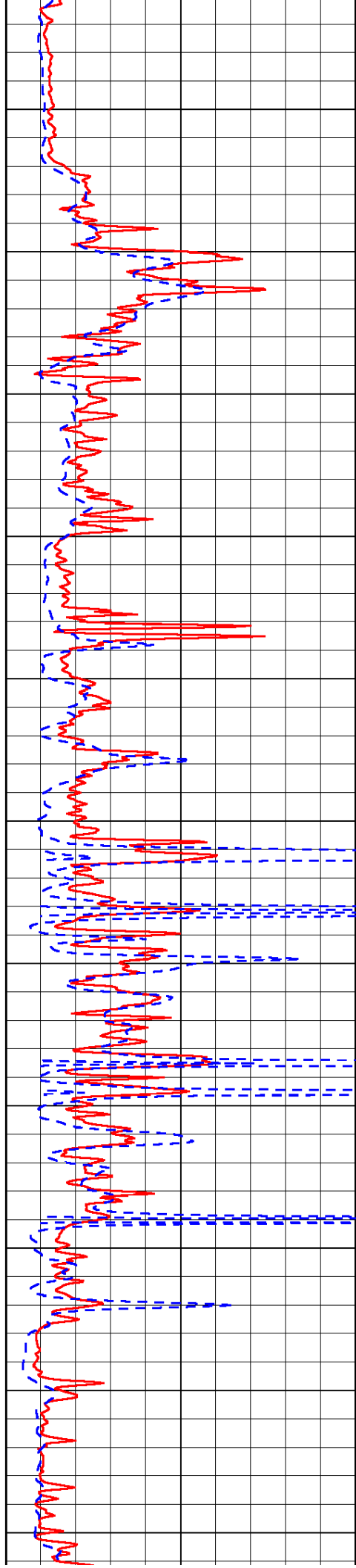
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Presentation Format: dil2in
Dataset Creation: Fri May 30 04:51:10 2014
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:600								
0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

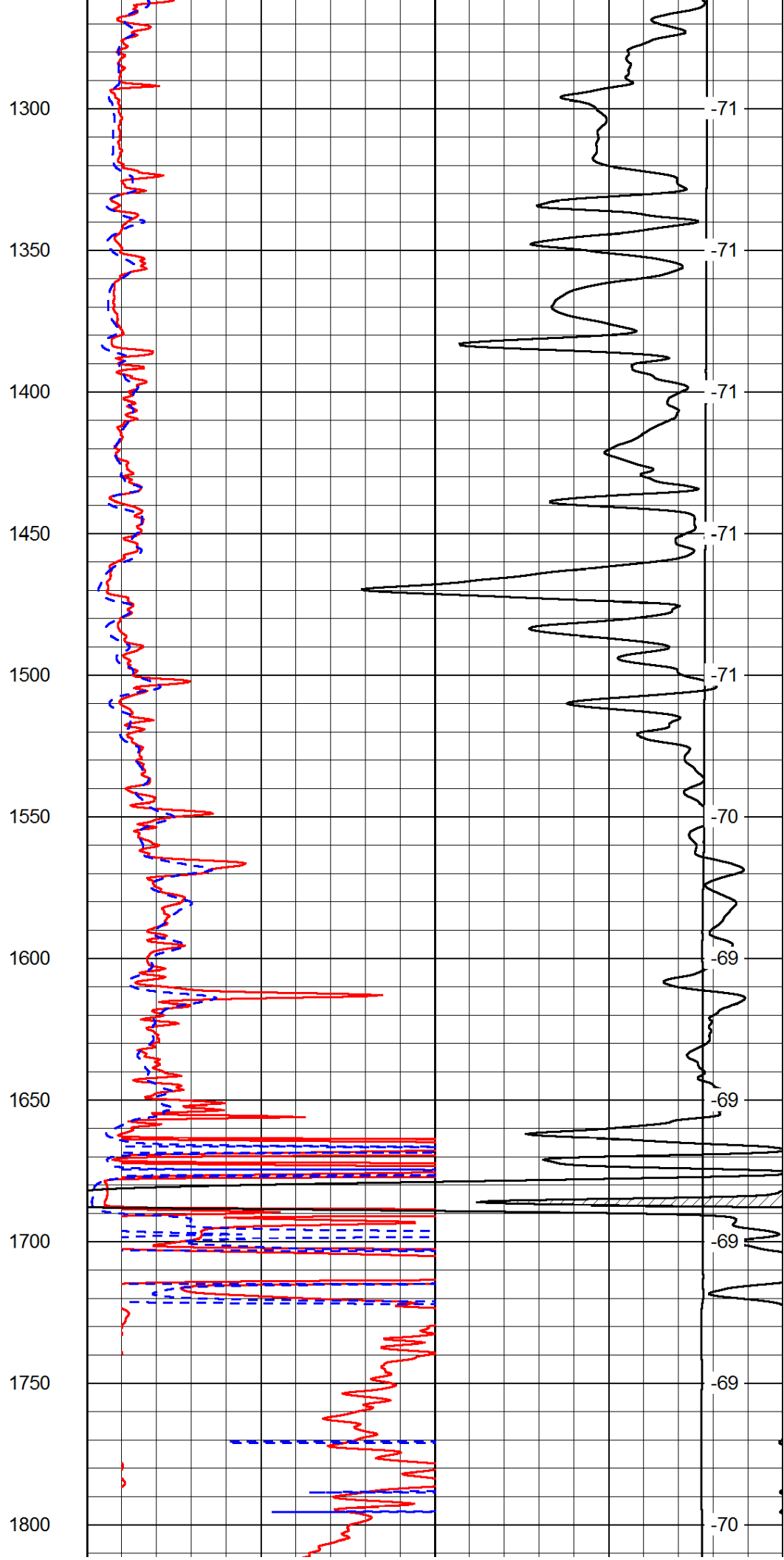
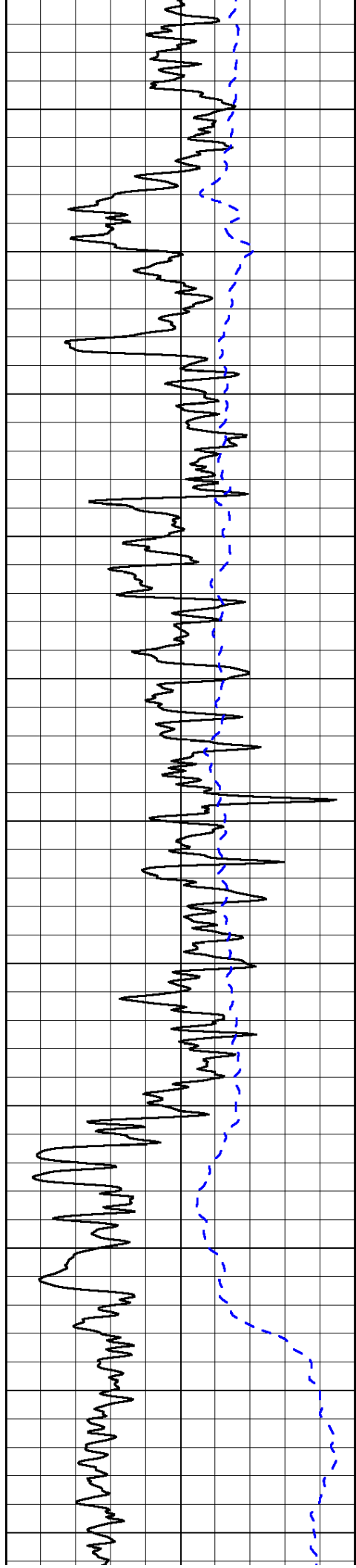


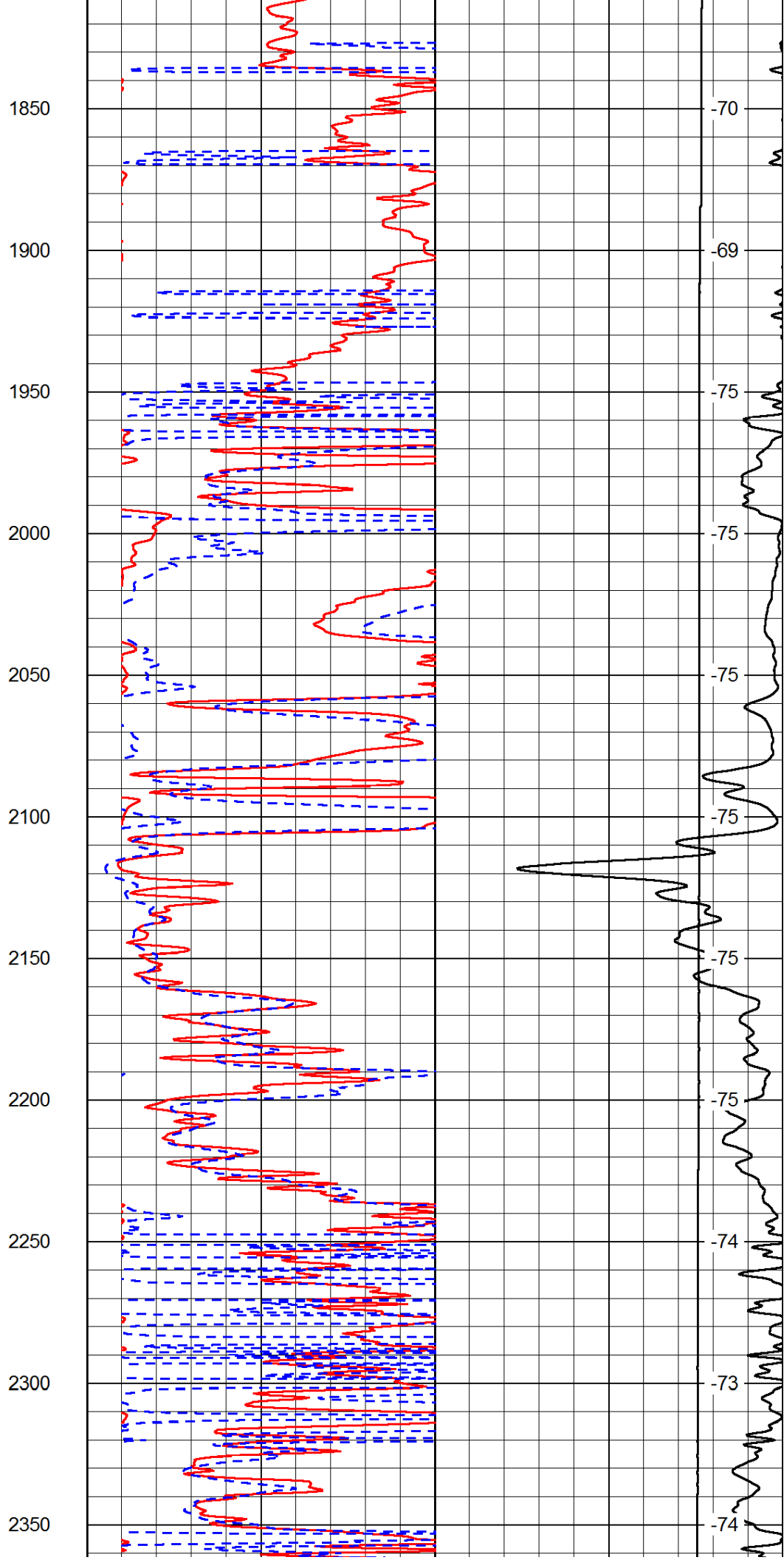
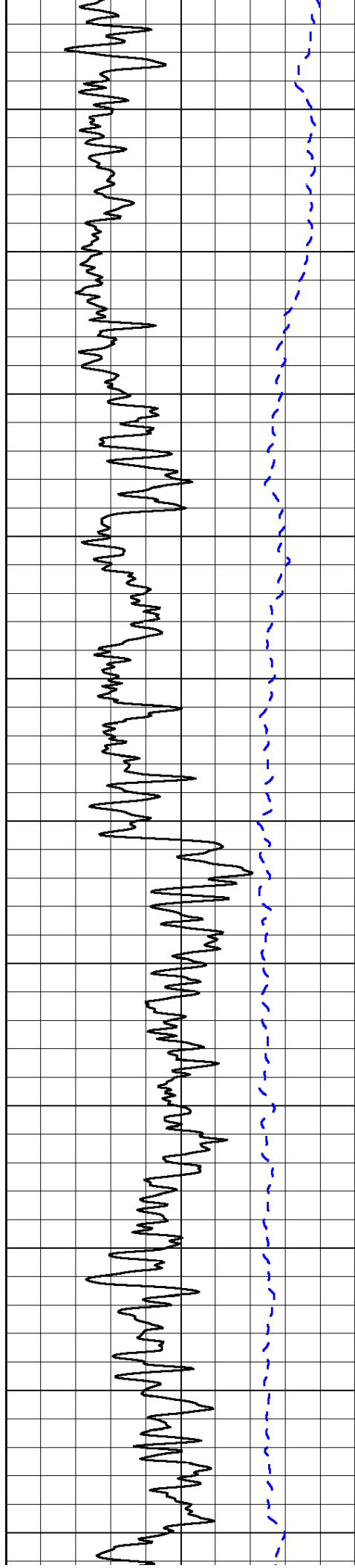


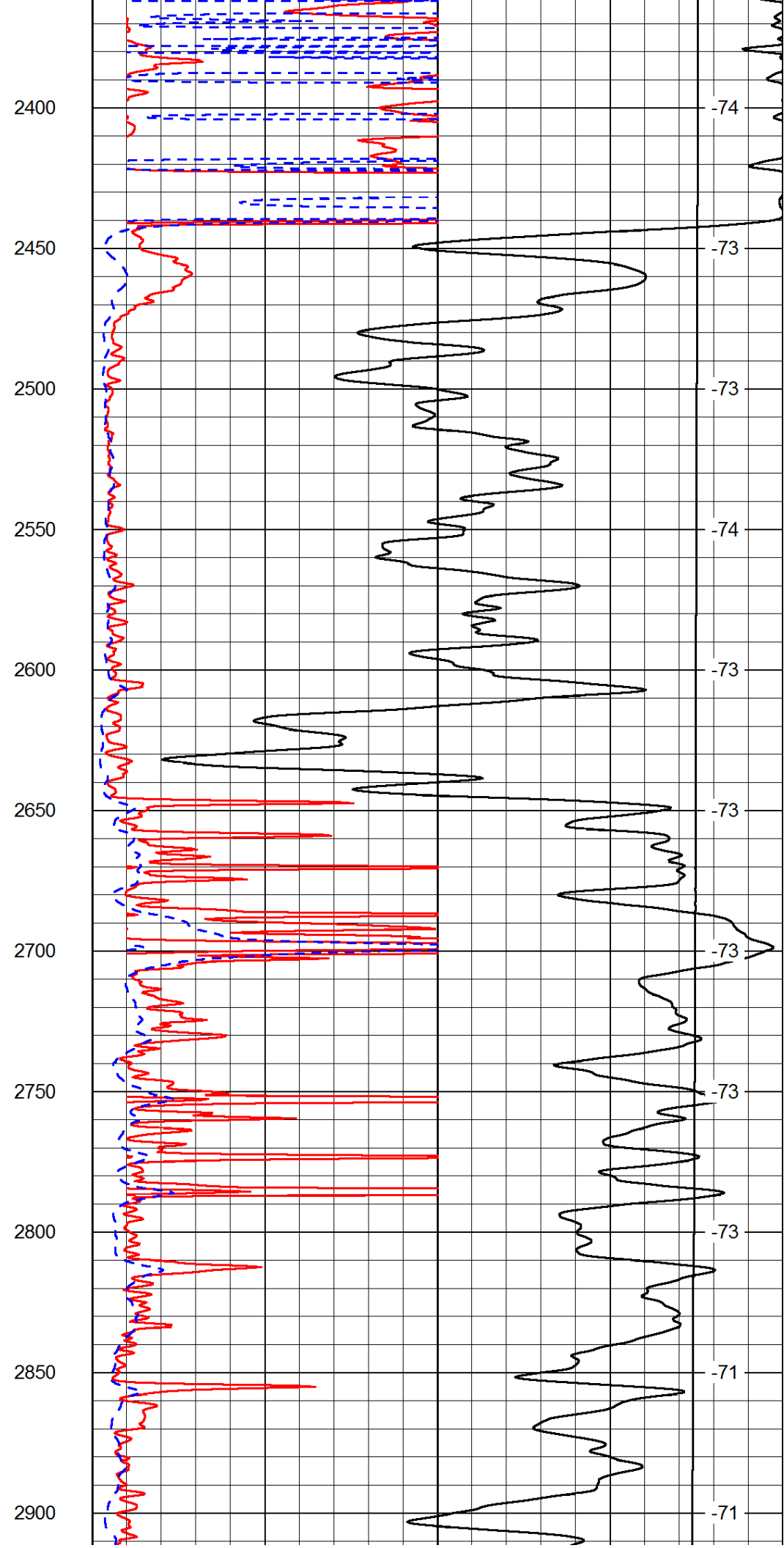
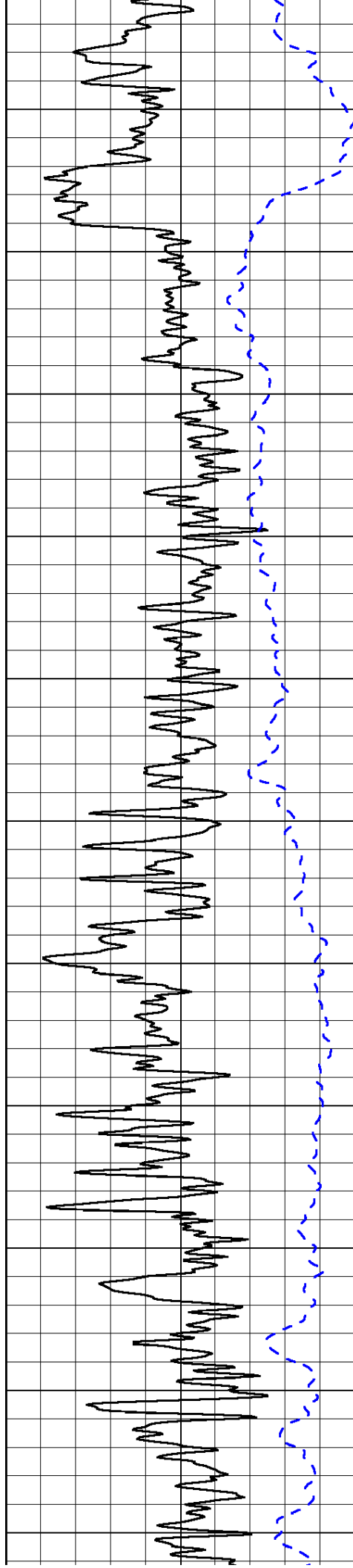
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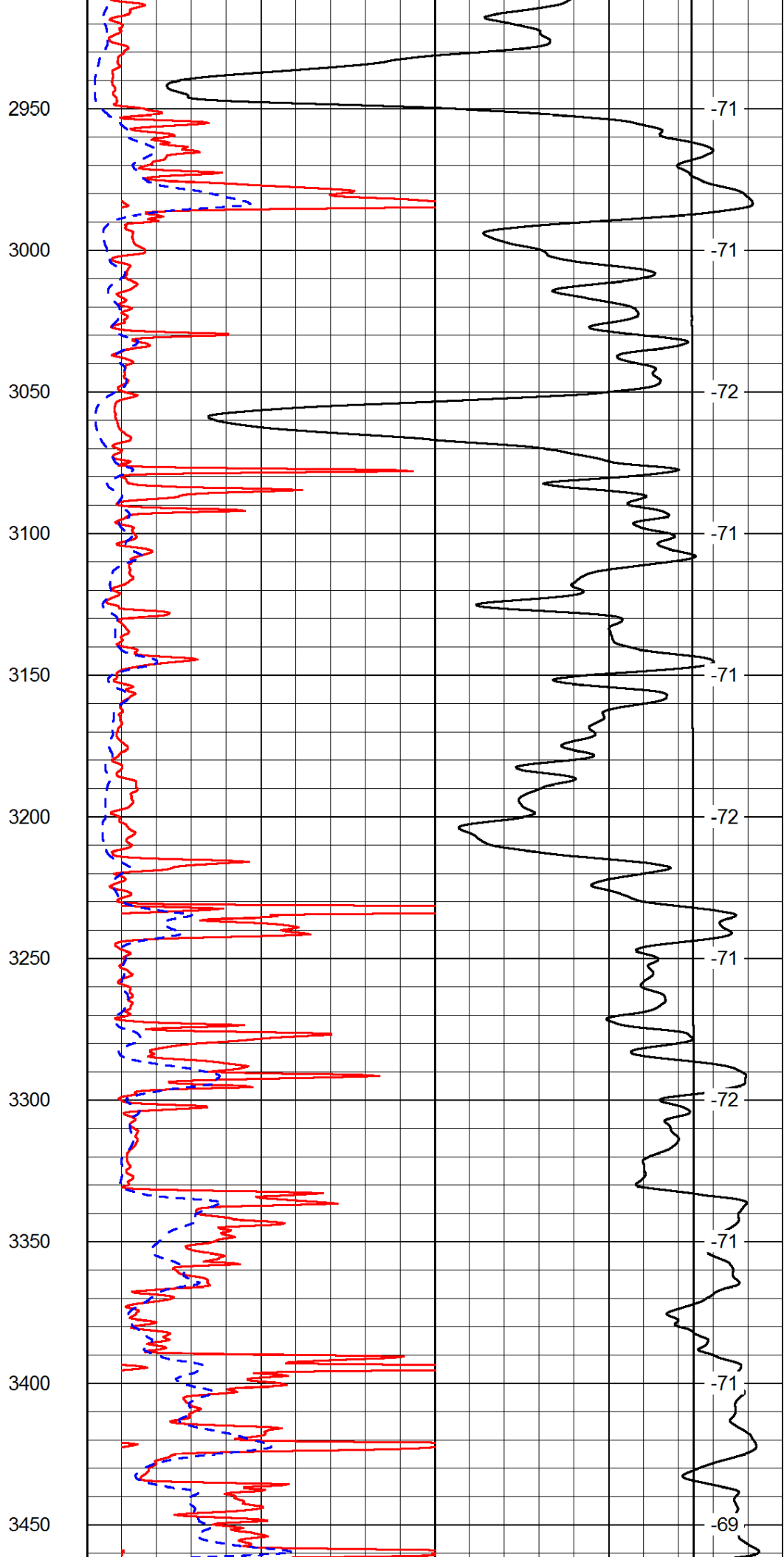
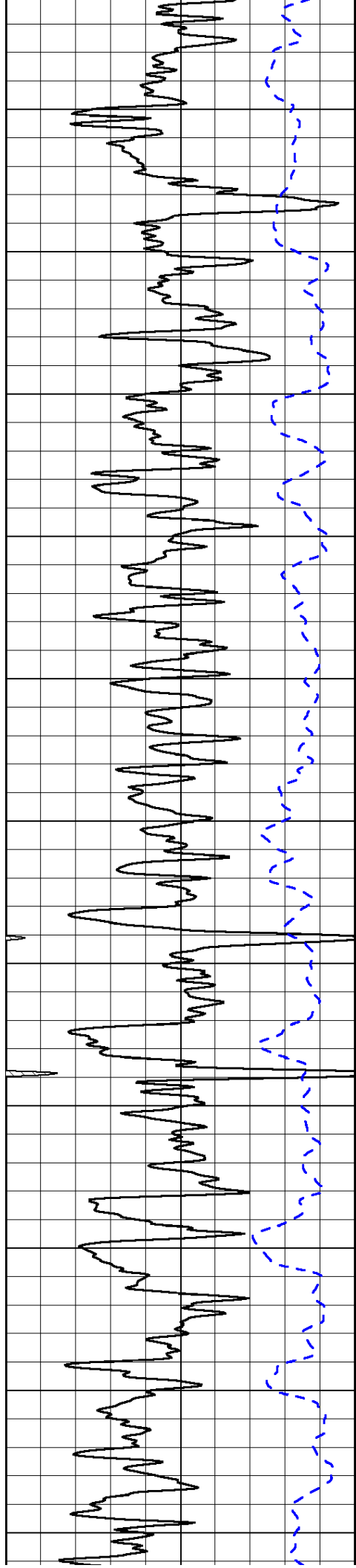


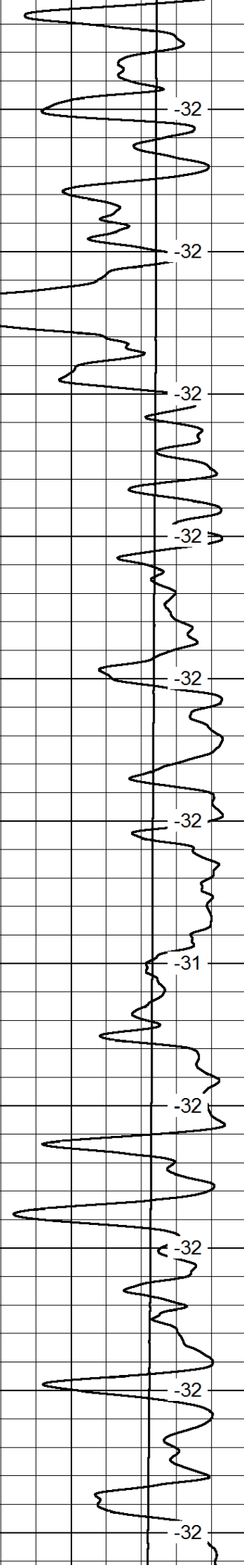
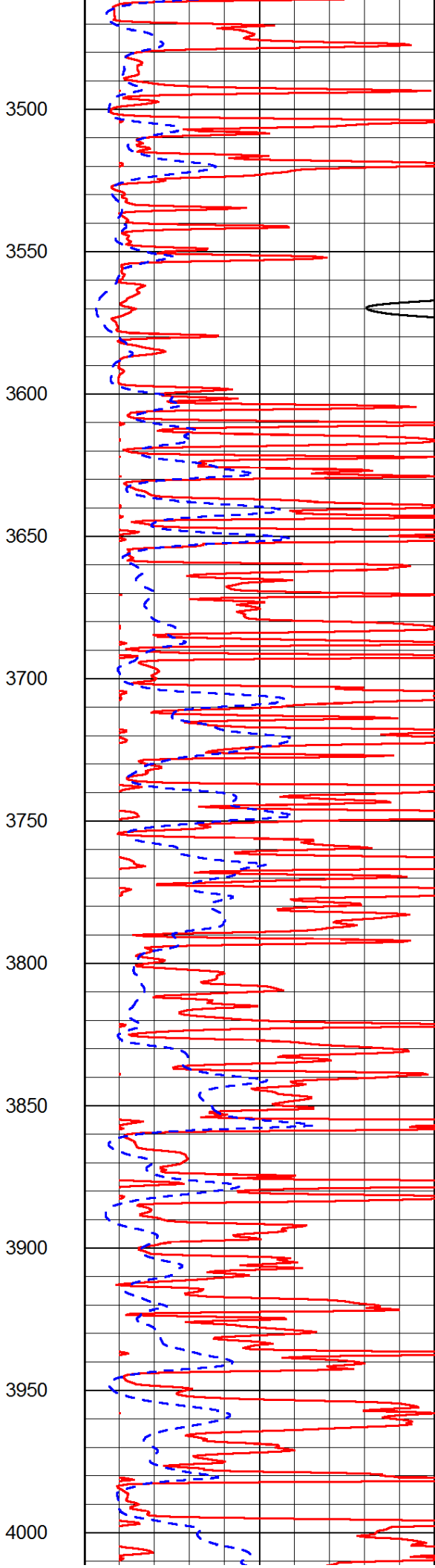
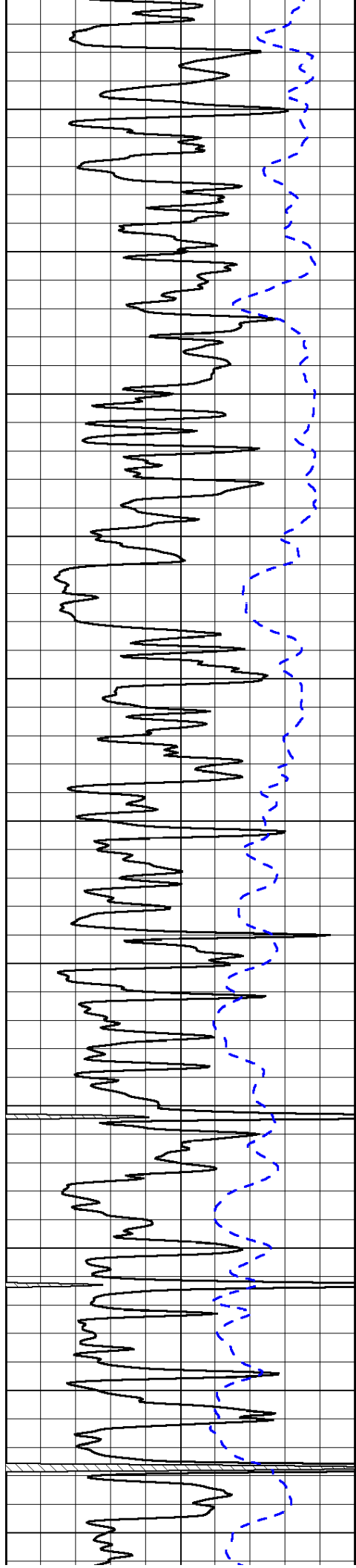
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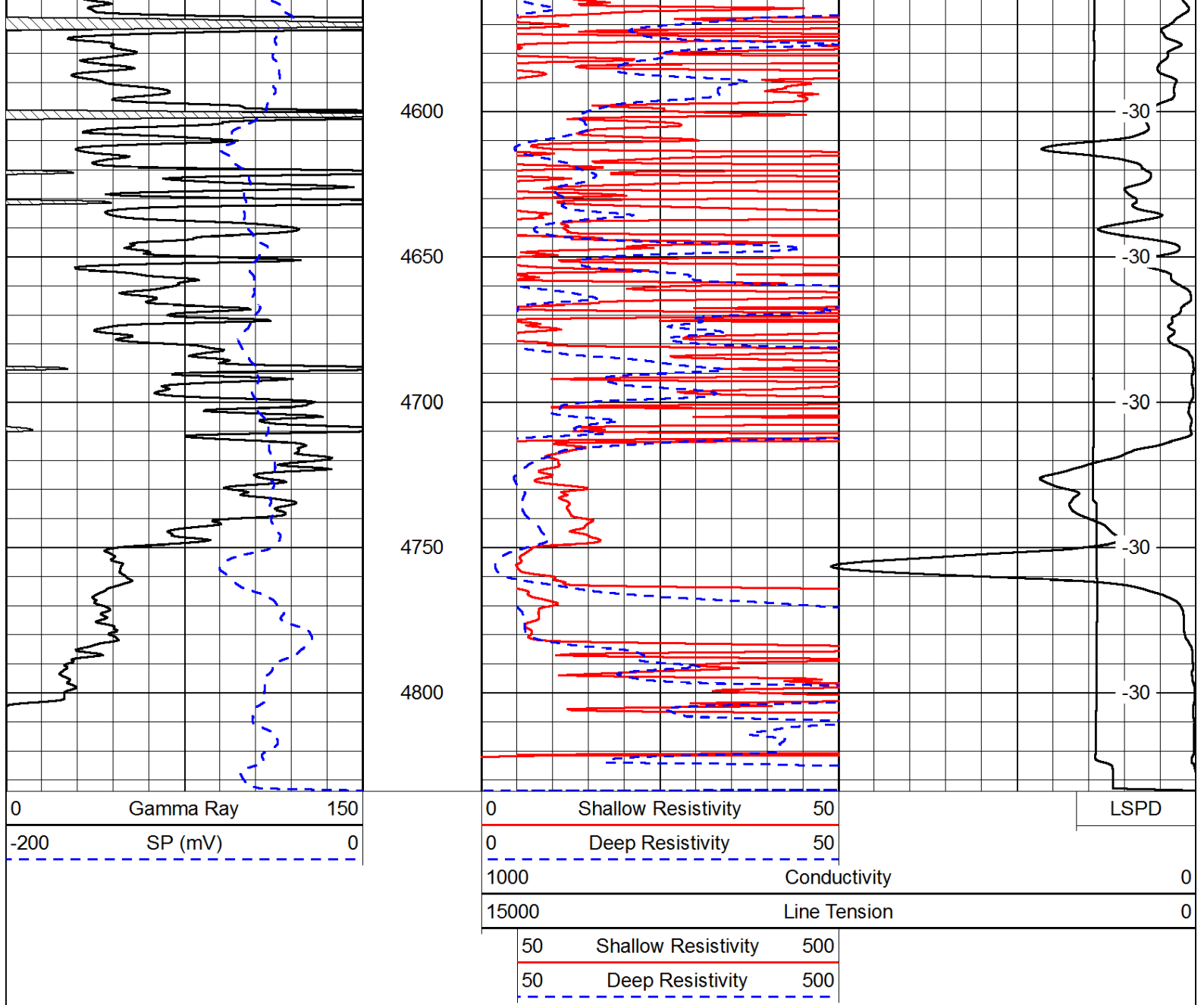




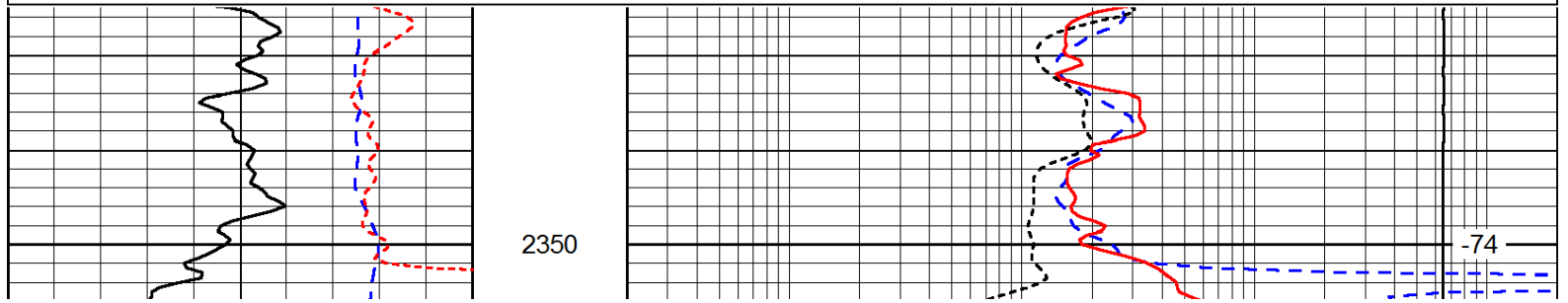
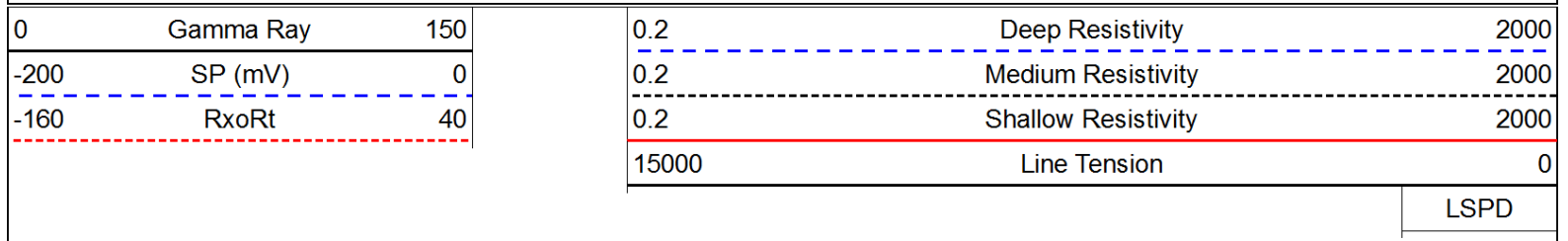


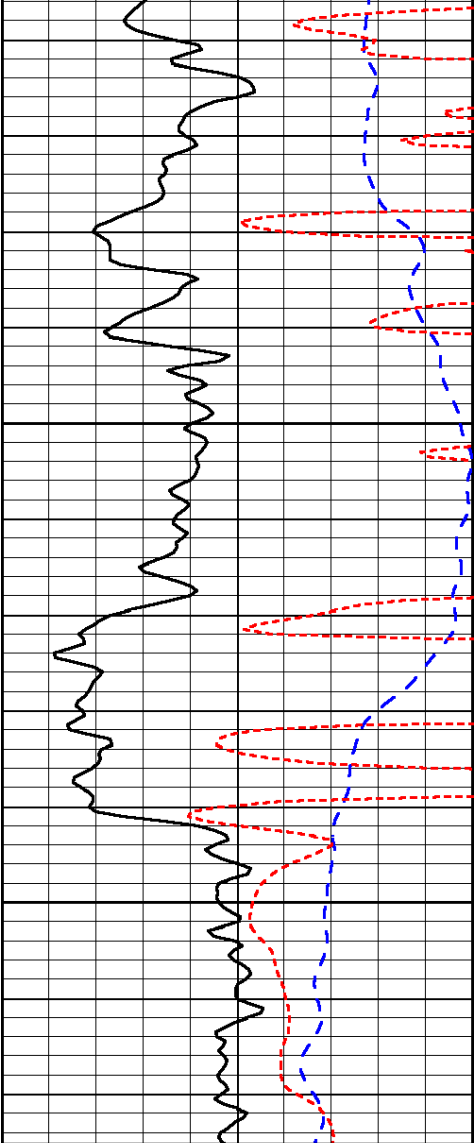






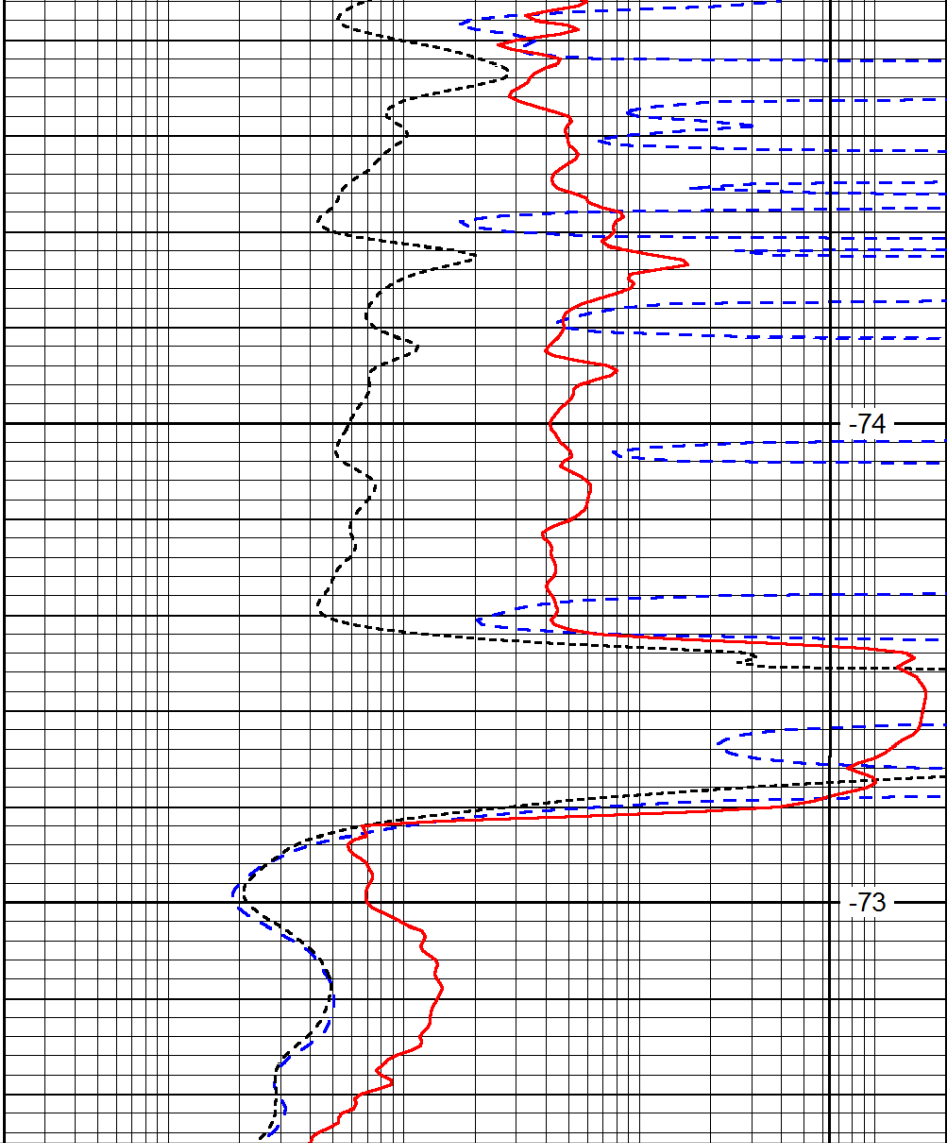
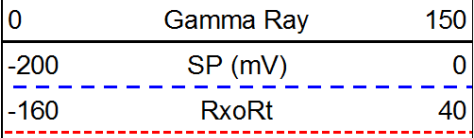
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 Charted by: Depth in Feet scaled 1:240





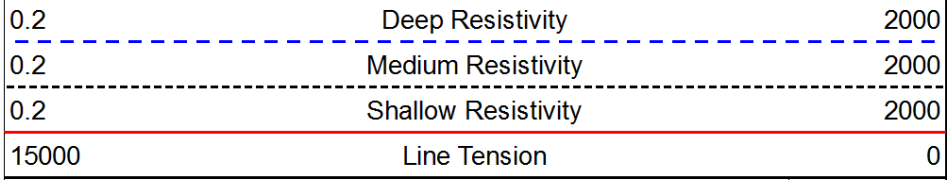
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2450



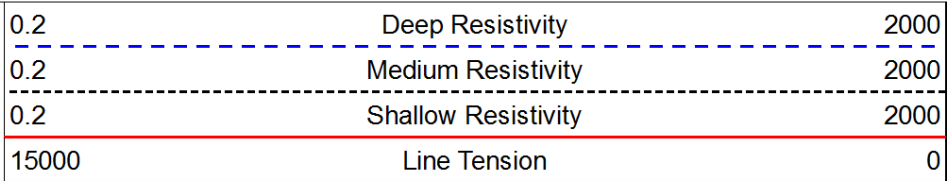
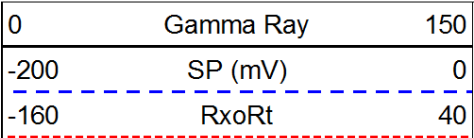
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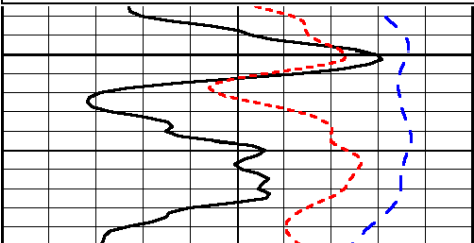


LSPD

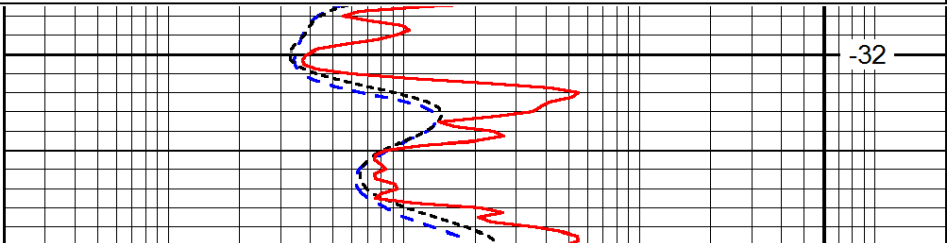
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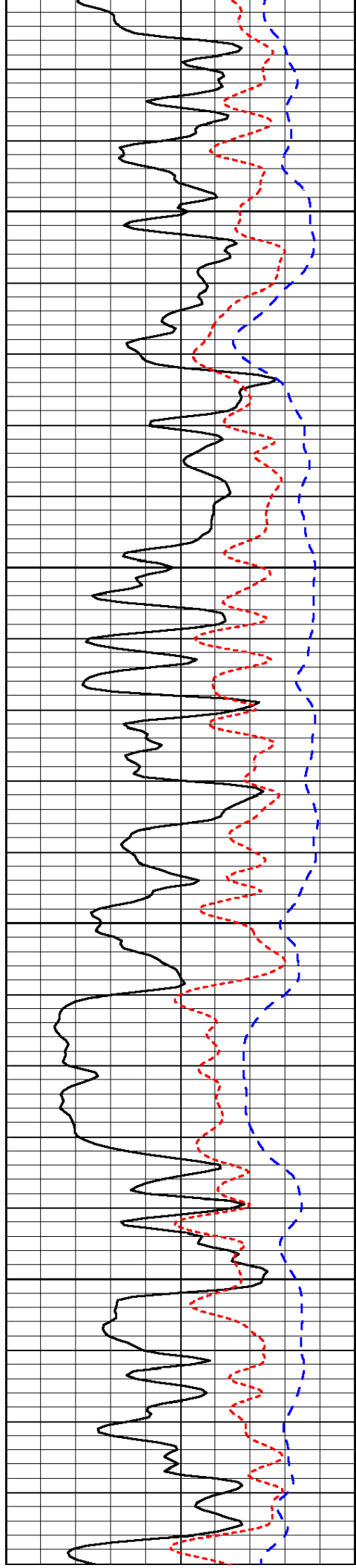
LSPD



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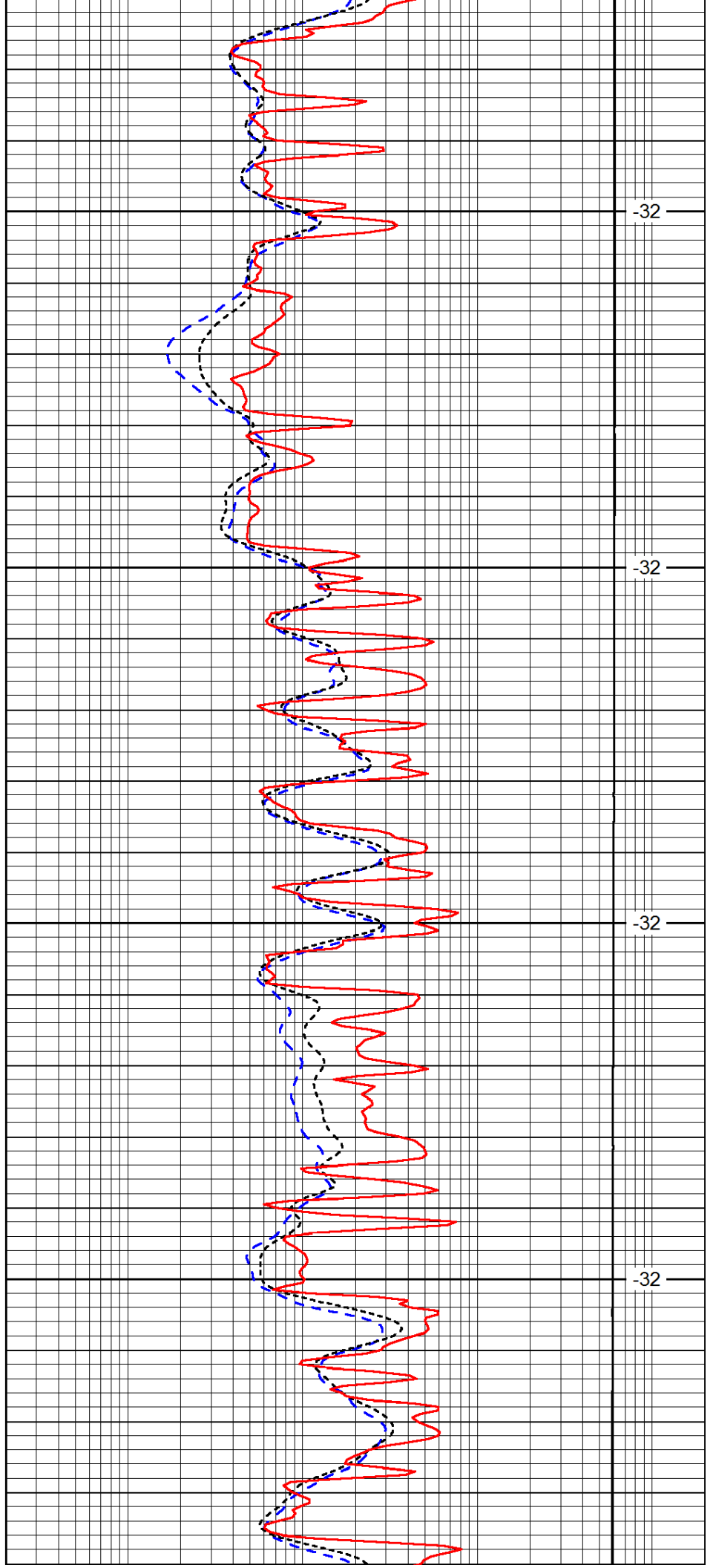


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3600

3650

3700

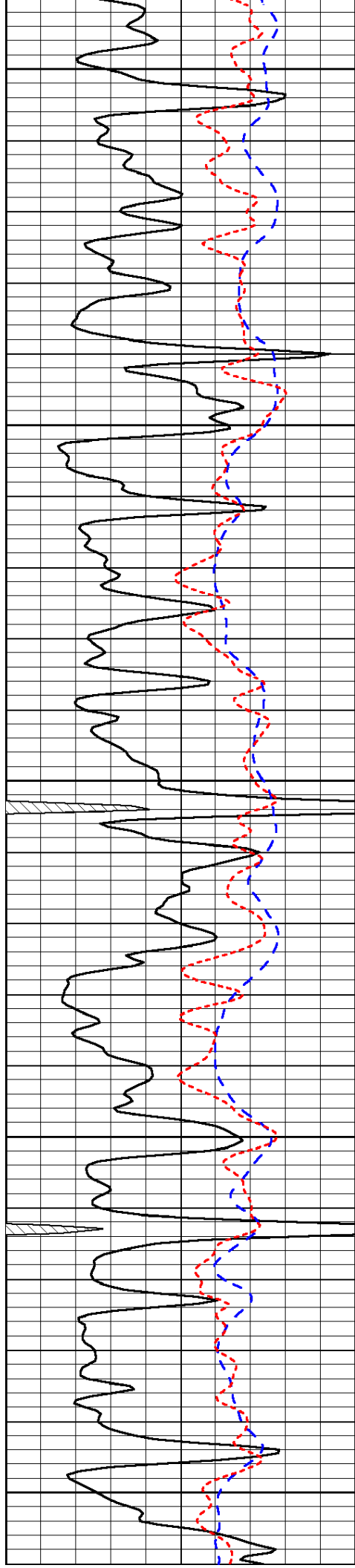


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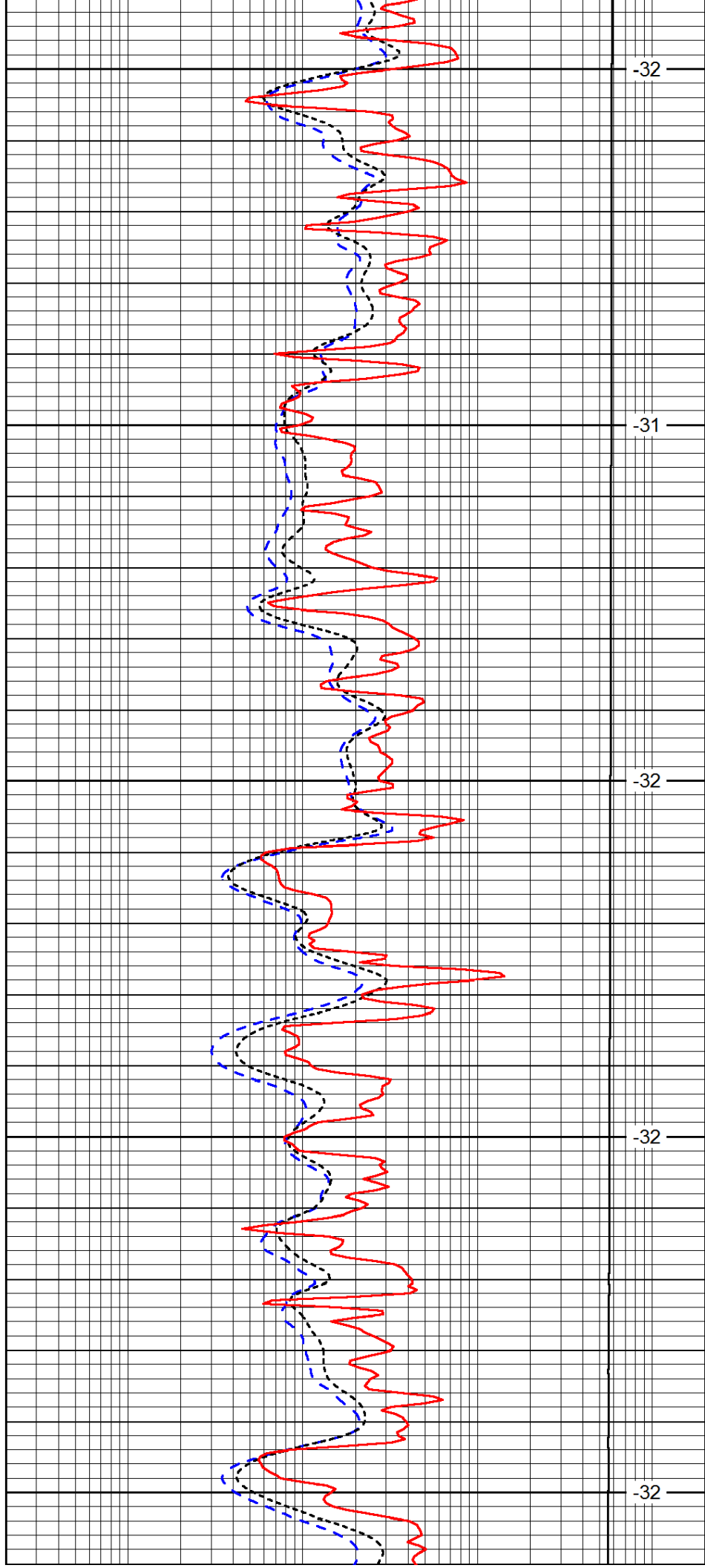
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3800

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3900

3950



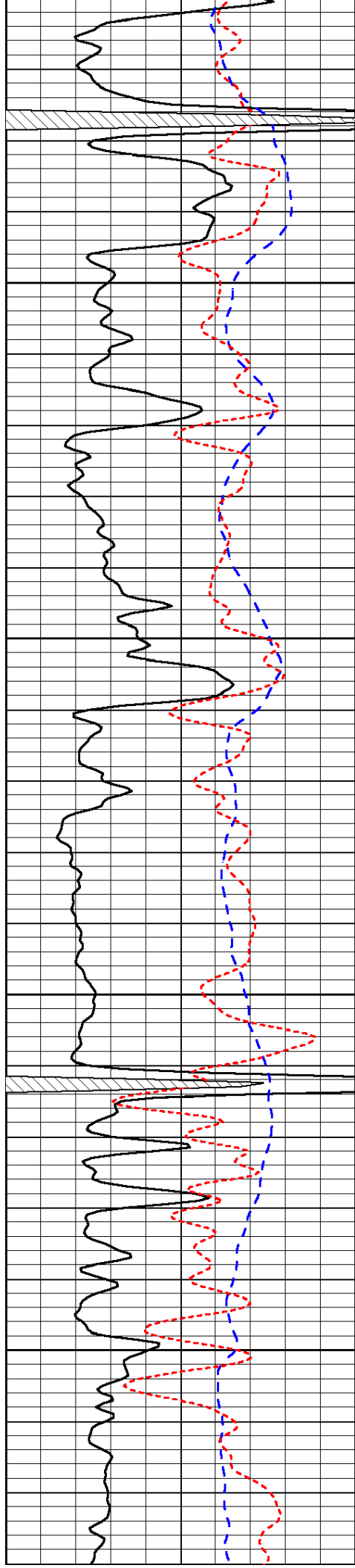
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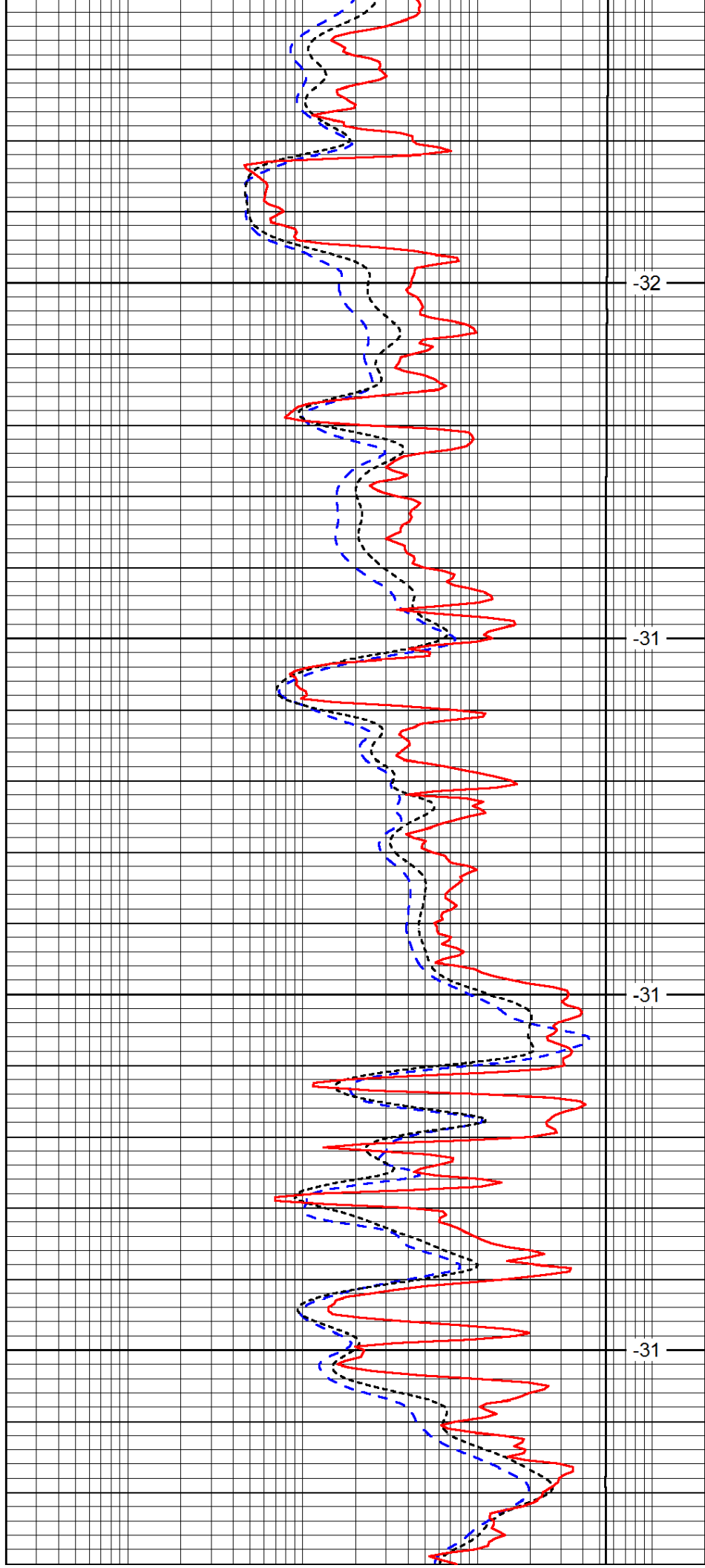


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4050

4100

4150

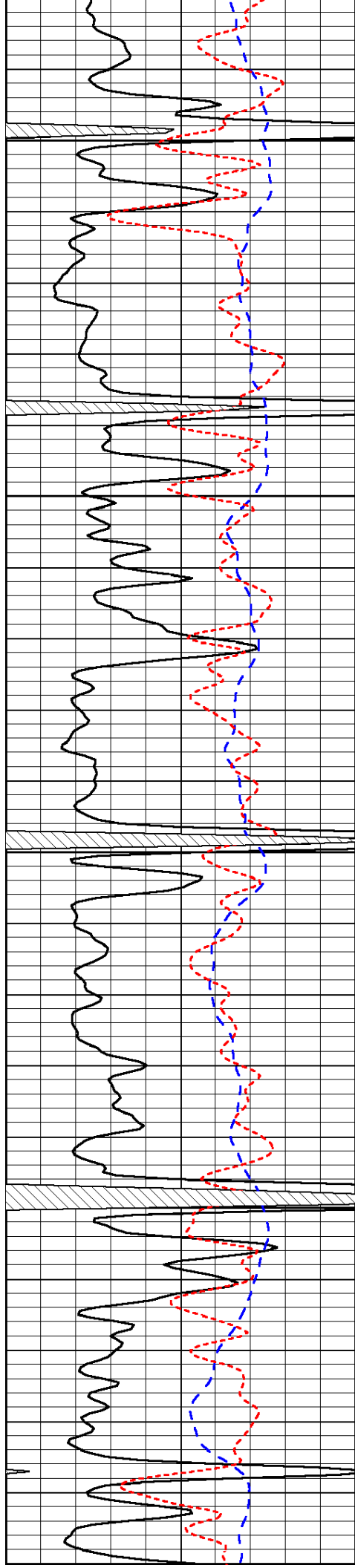


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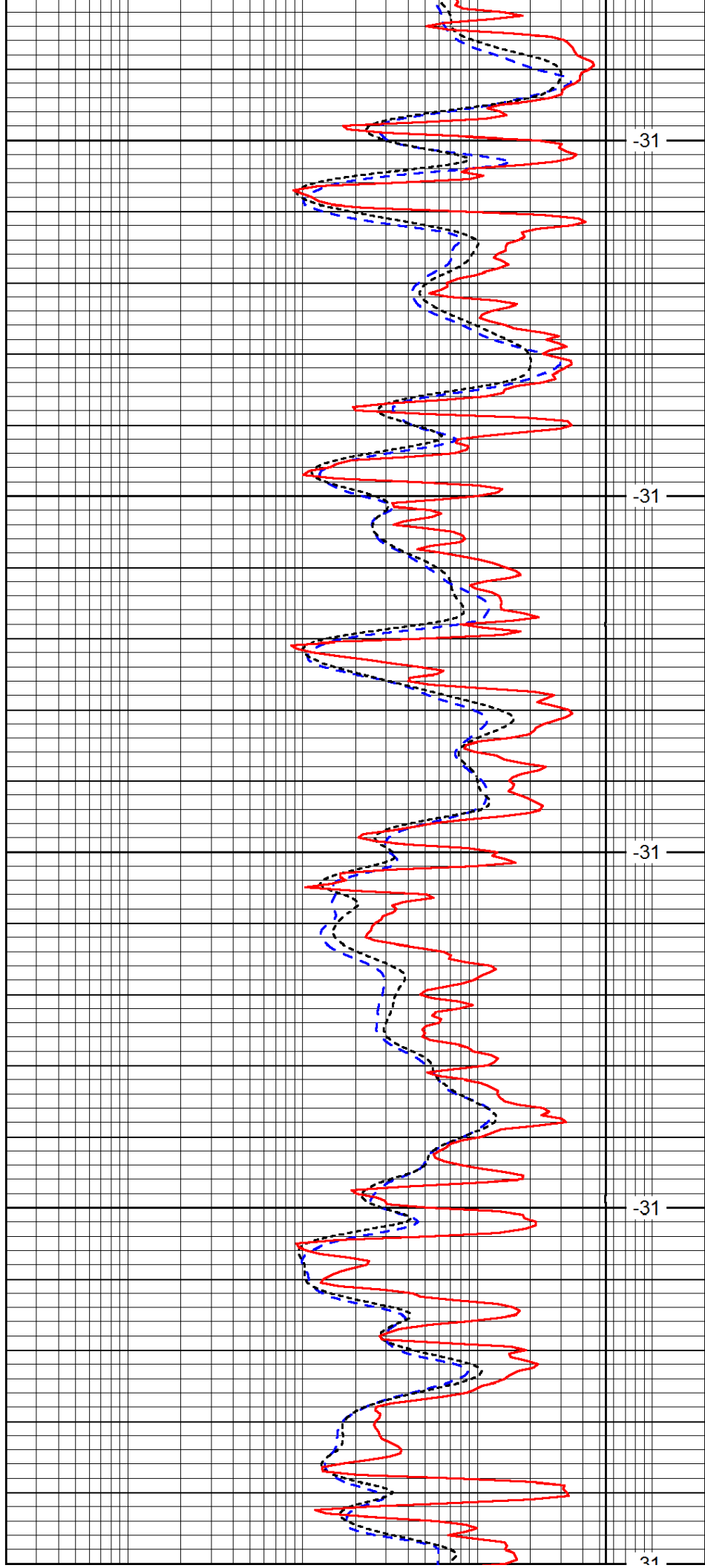
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4250

4300

4350

4400



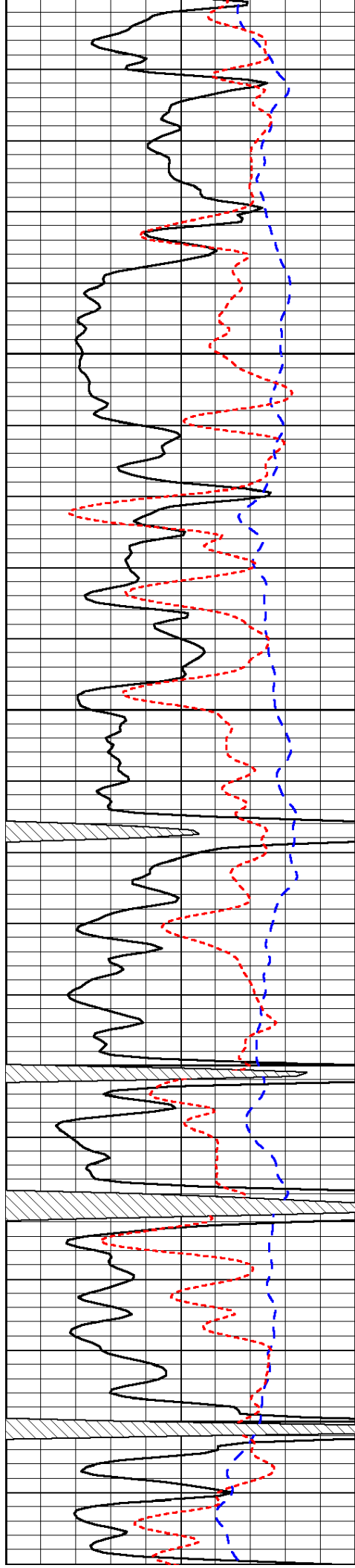
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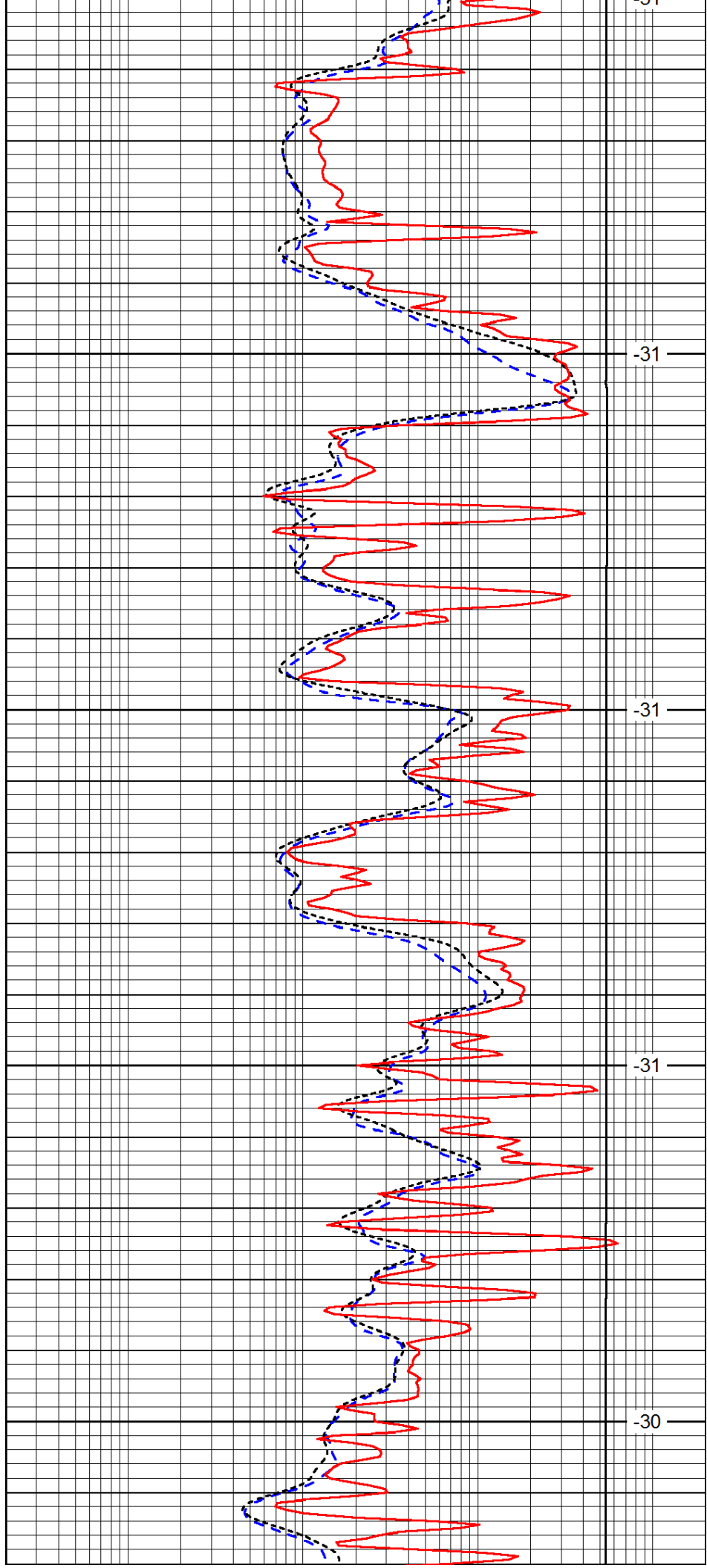
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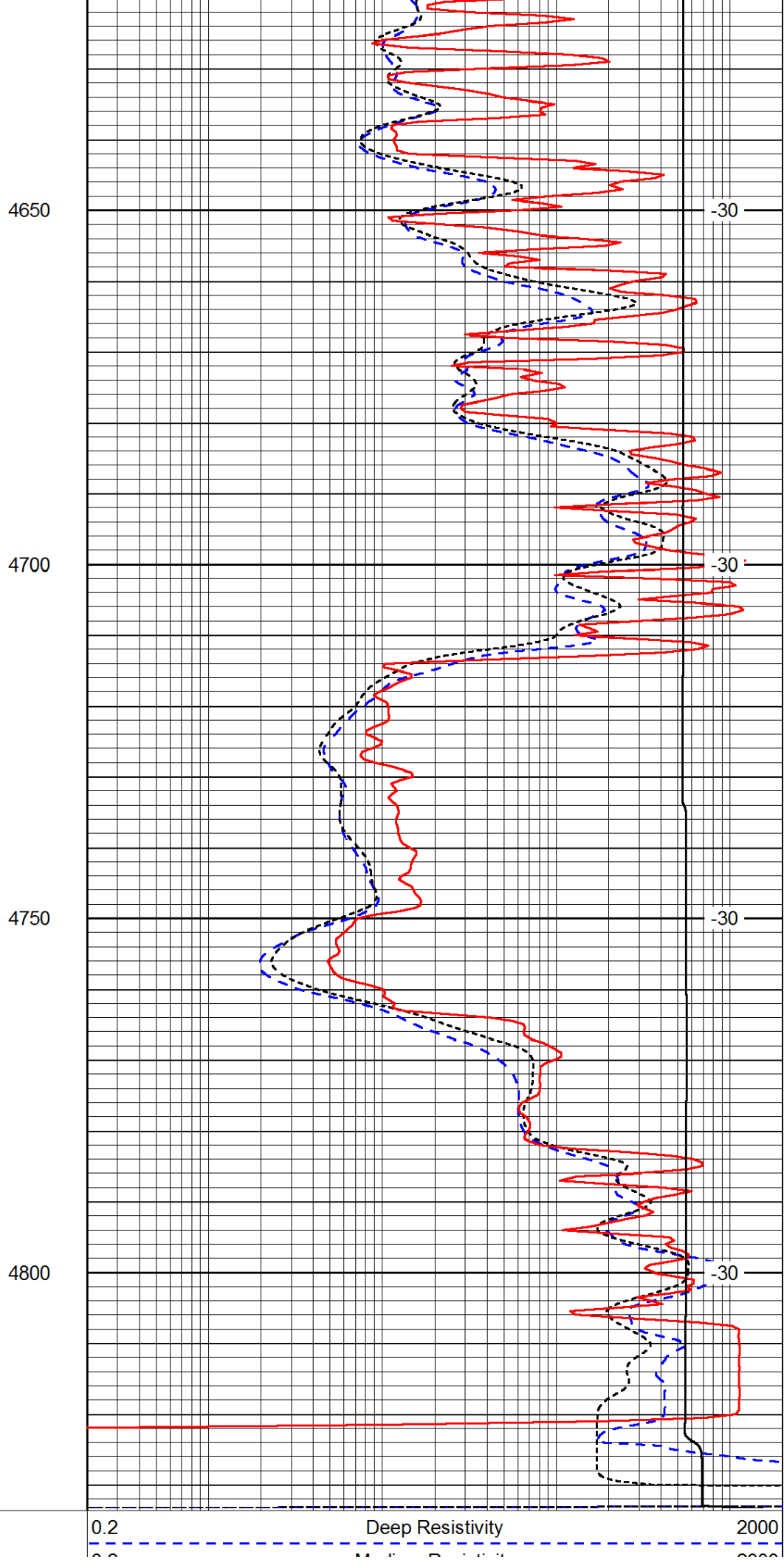
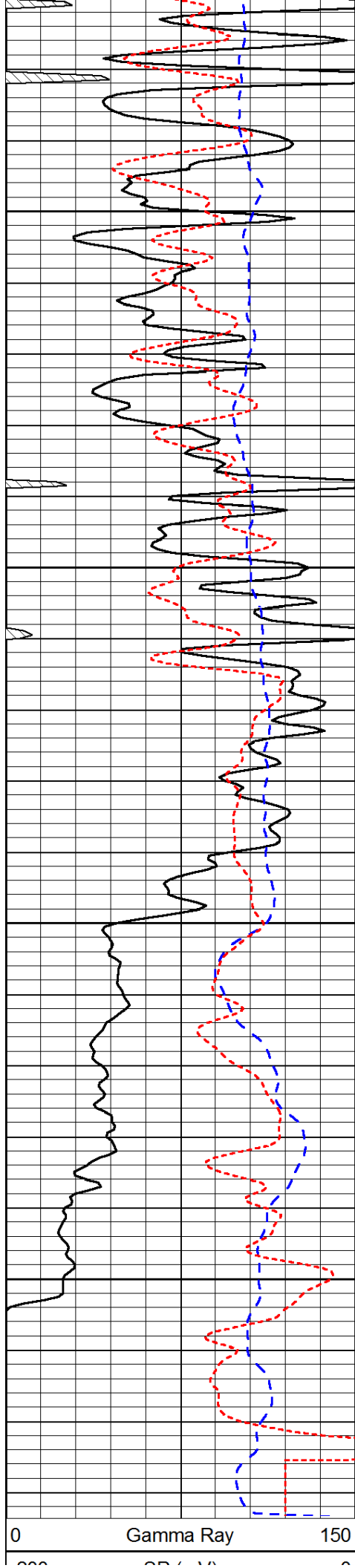
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-31



4400
4450
4500
4550
4600





-200	SP (mv)	0
-160	RxoRt	40

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