



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.				
	Well Palkowitsh #1-2				
	Field Wildcat				
	County	Scott	State	Kansas	
15-171-21,028-00-00	Location	970' FNL & 1,296' FEL			Other Services CNL/CDL MEL/BHCS
	Sec: 2	Twp: 18S	Rge: 34W	Elevation K.B. 3106 D.F. 3097 G.L. 3097	
Permanent Datum	Ground Level	Elevation 3097			
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum			
Drilling Measured From	From Kelly Bushing				
Date	2/22/2014				
Run Number	One				
Depth Driller	5000				
Depth Logger	4999				
Bottom Logged Interval	4998				
Top Log Interval	300				
Casing Driller	8.625 @ 309				
Casing Logger	302				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	4000				
Density / Viscosity	9.6 50				
pH / Fluid Loss	10.0 10.0				
Source of Sample	Flowline				
Rm @ Meas. Temp	.34 @ 78				
Rmf @ Meas. Temp	.26 @ 78				
Rmc @ Meas. Temp	.46 @ 78				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.21 @ 126				
Operating Rig Time	4 1/2 Hours				
Max Rec. Temp. F	126				
Equipment Number	108				
Location	Hays				
Recorded By	J. Long				
Witnessed By	Macklin Armstrong				

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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.

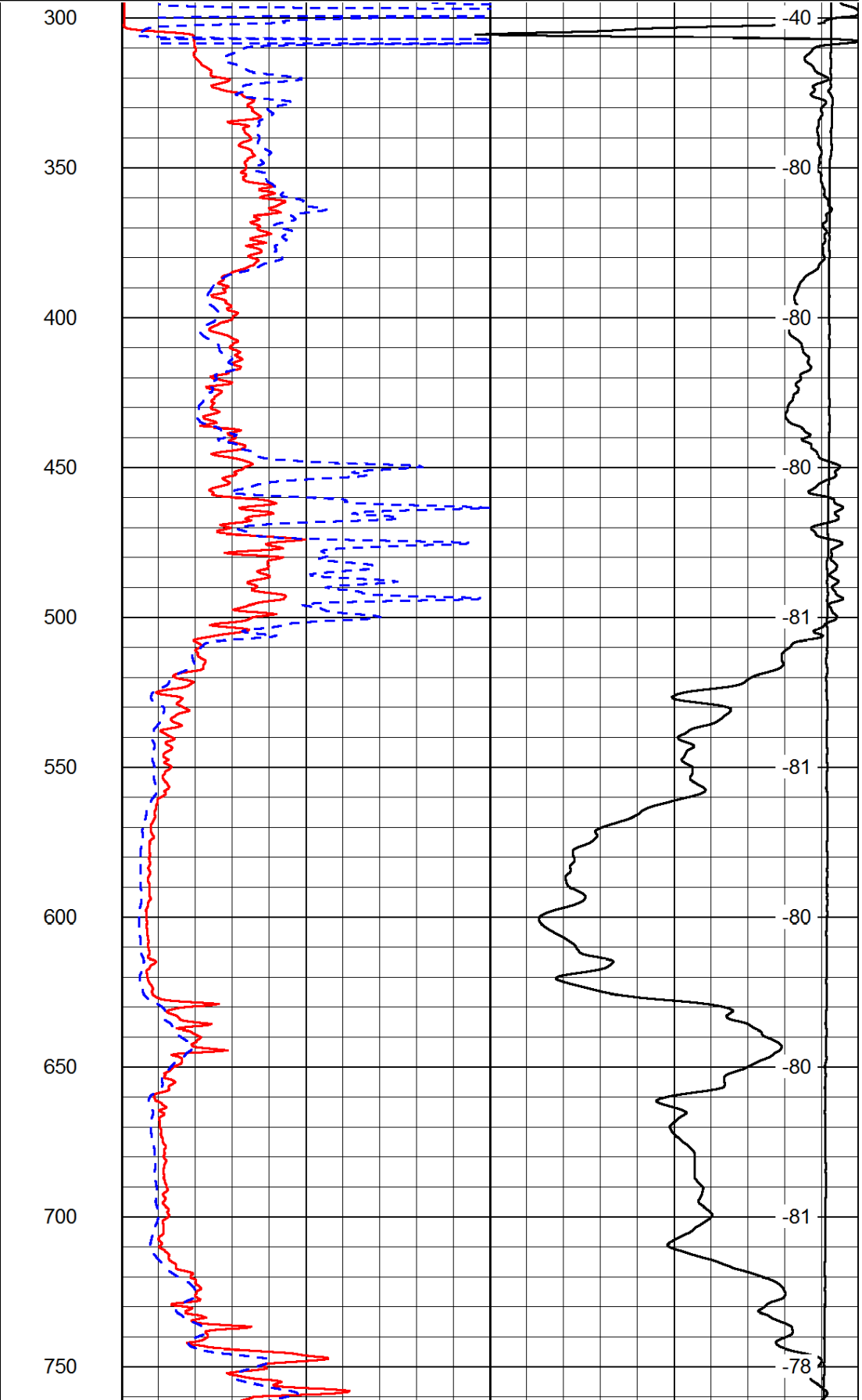
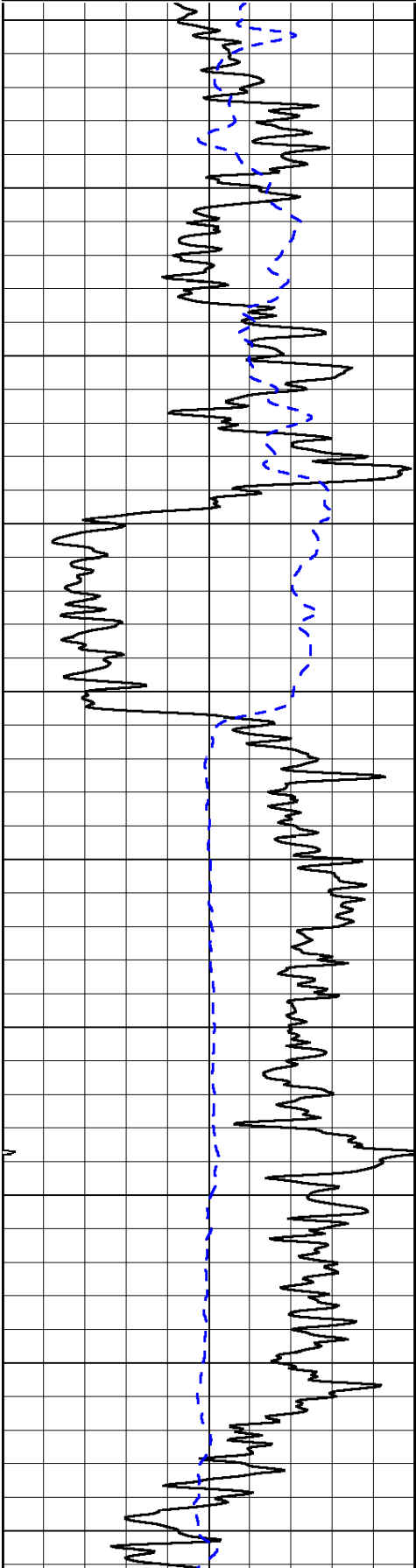
Comments

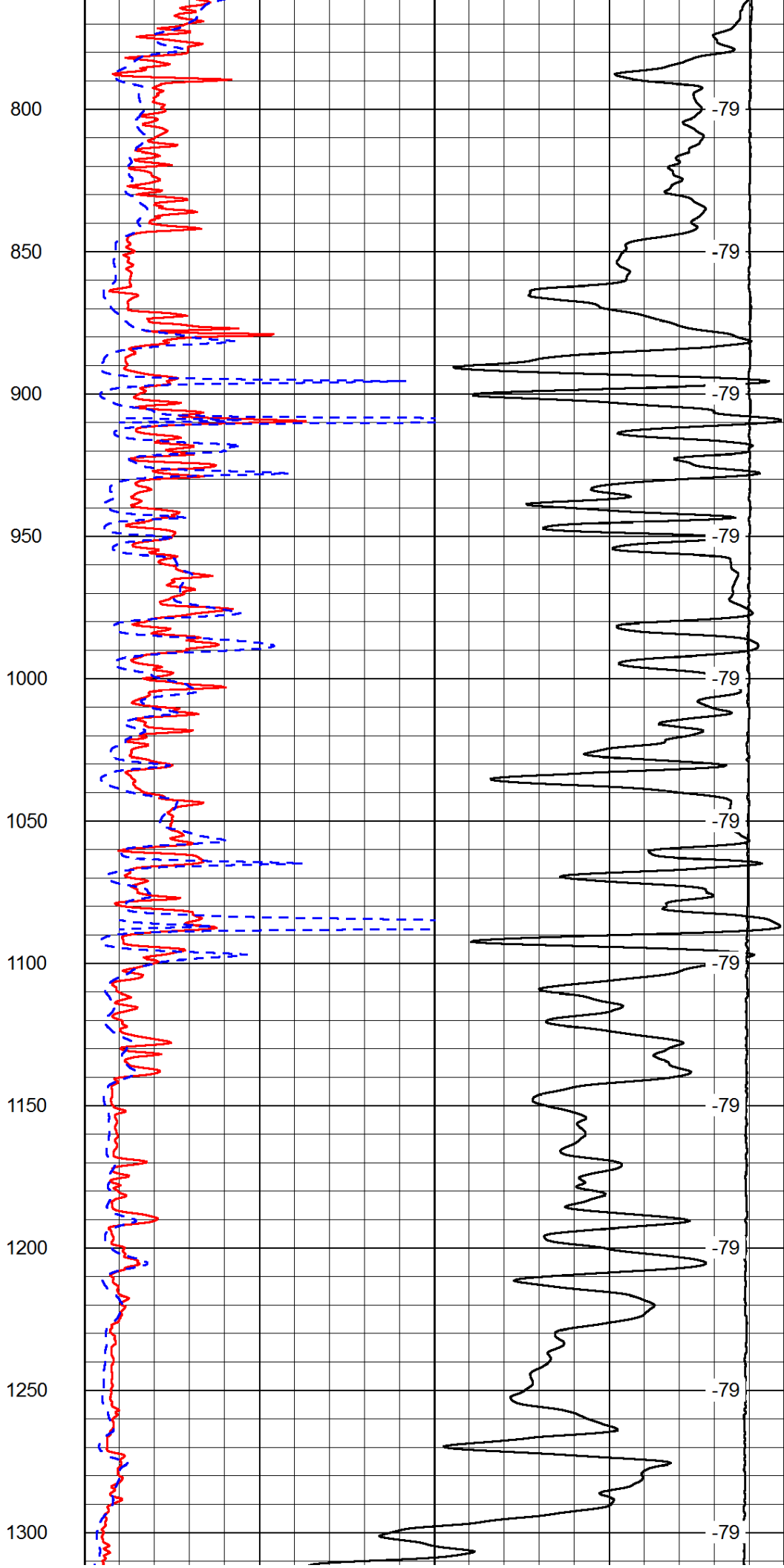
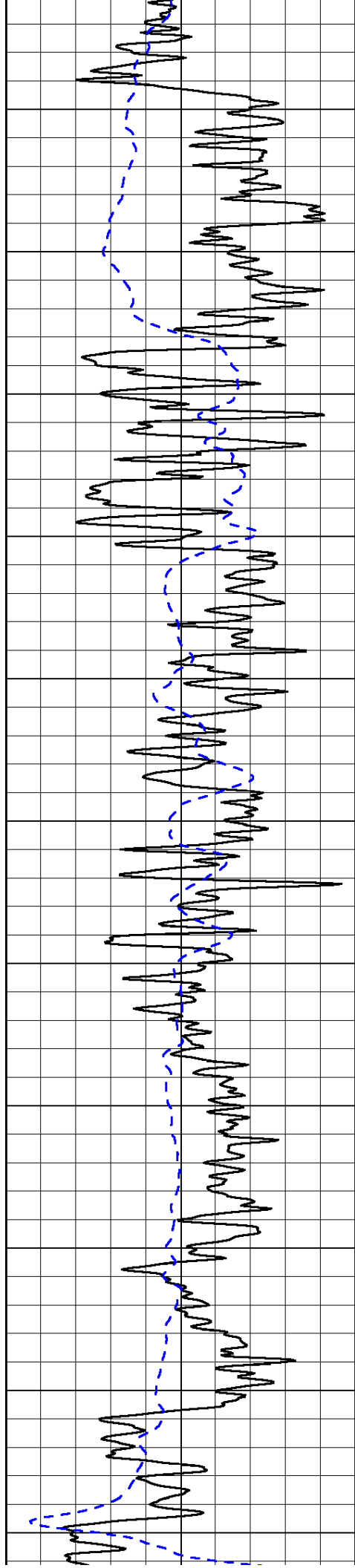
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

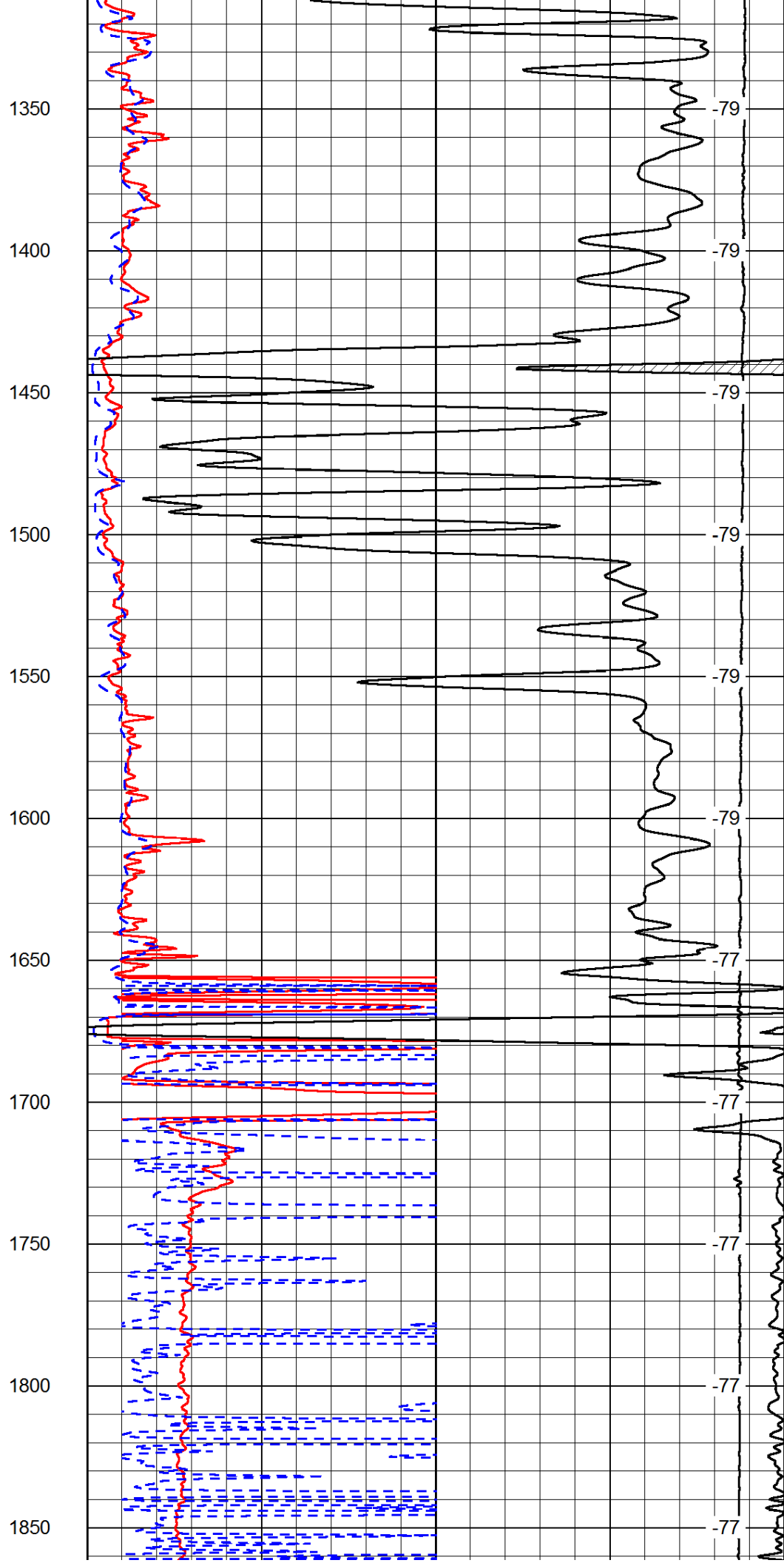
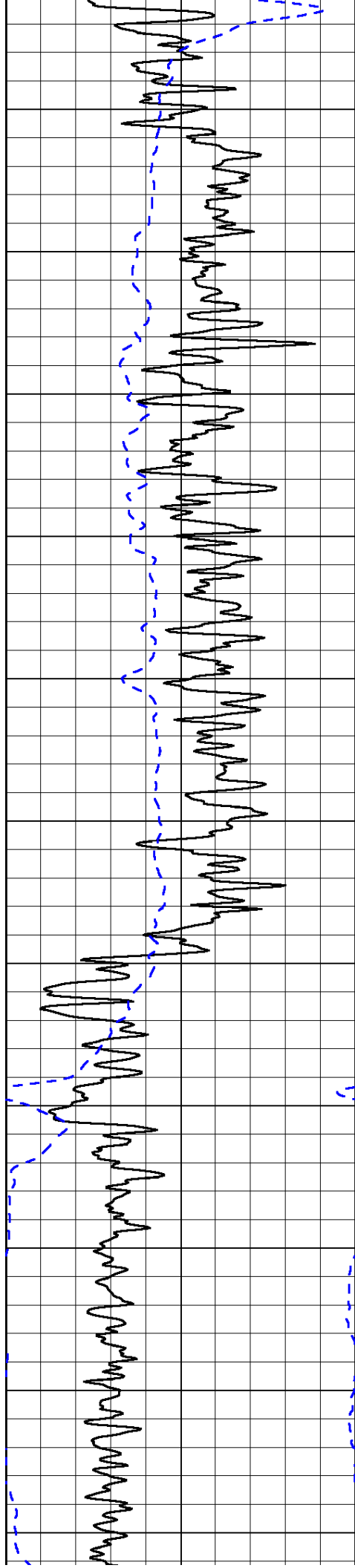
Scott City, 7 West, 2 3/4 North, West Into

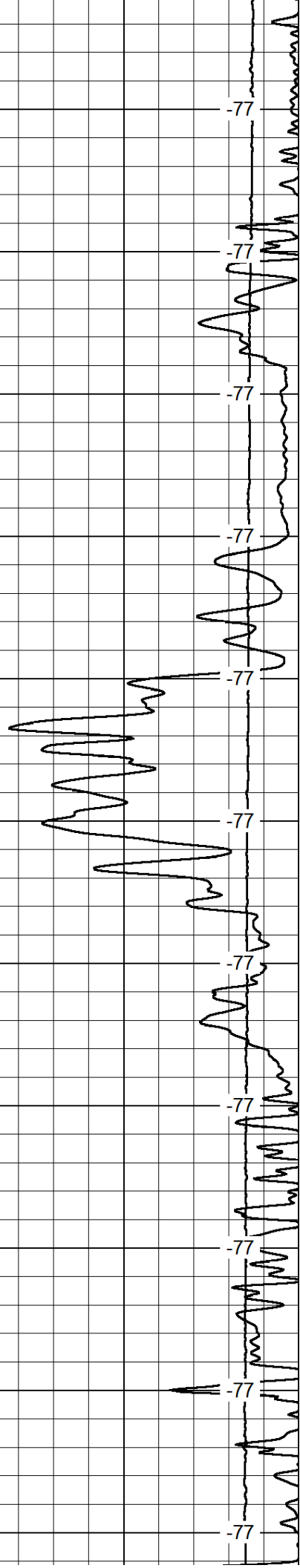
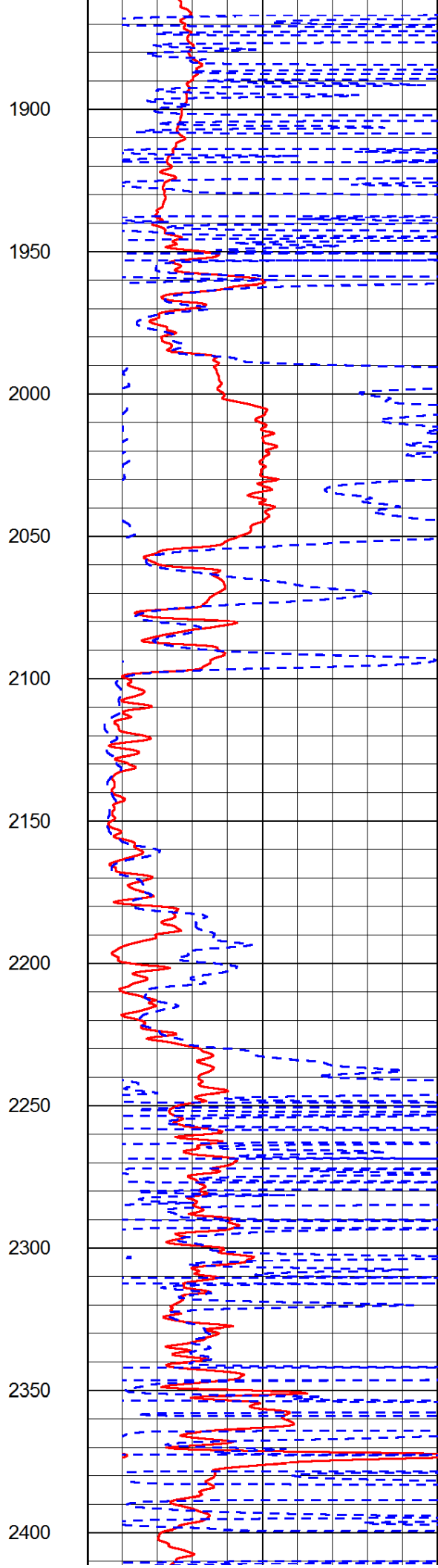
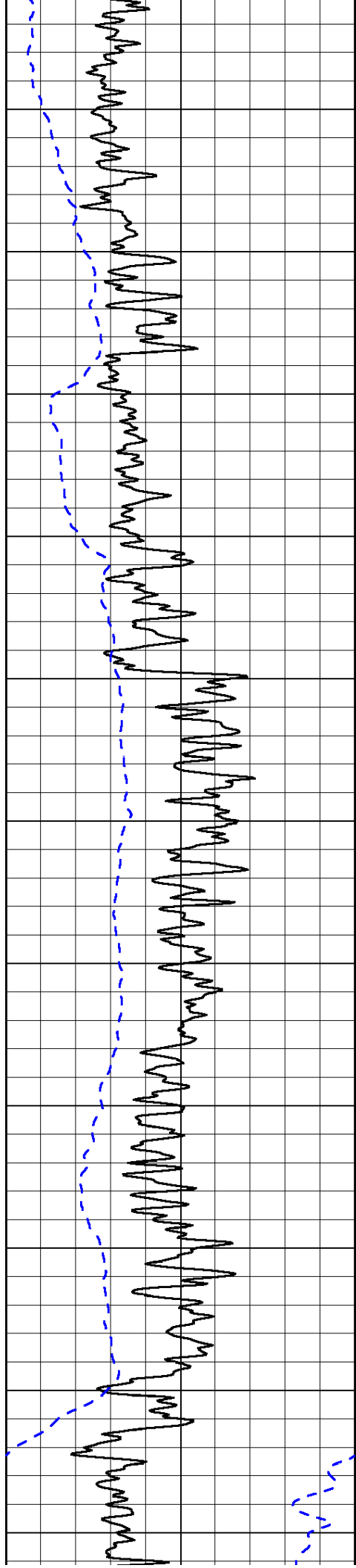
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Presentation Format: dil2in
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Charted by: Depth in Feet scaled 1:600

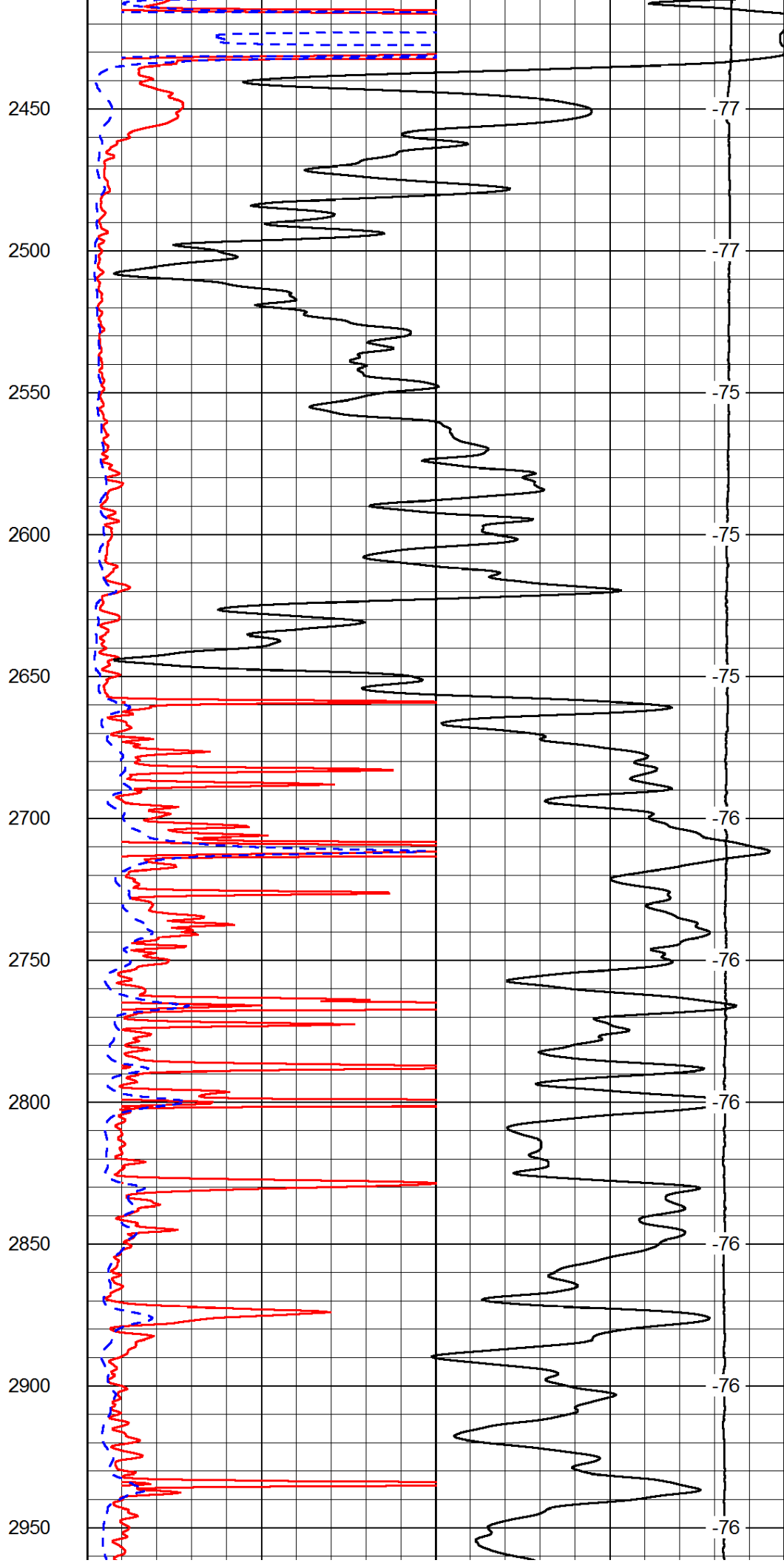
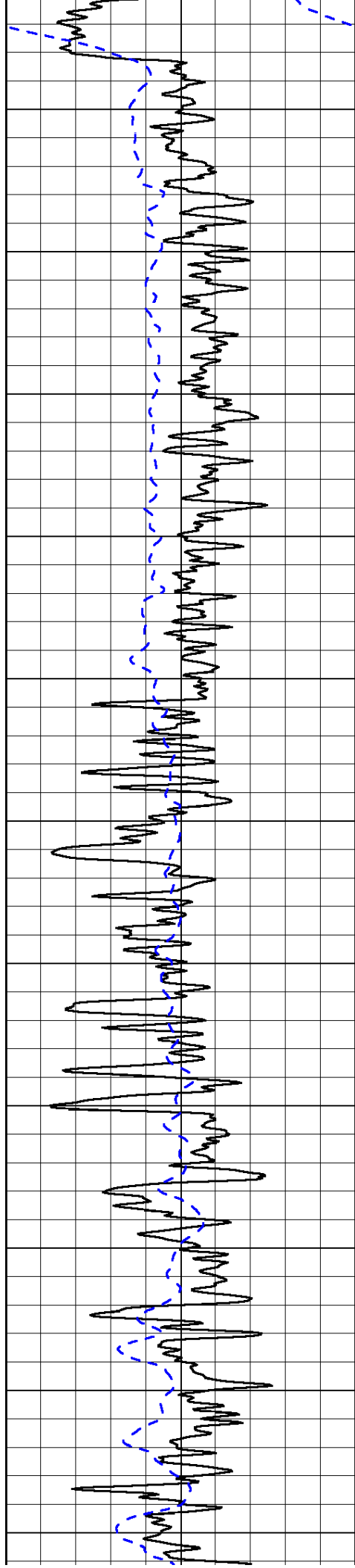
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0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD		
-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

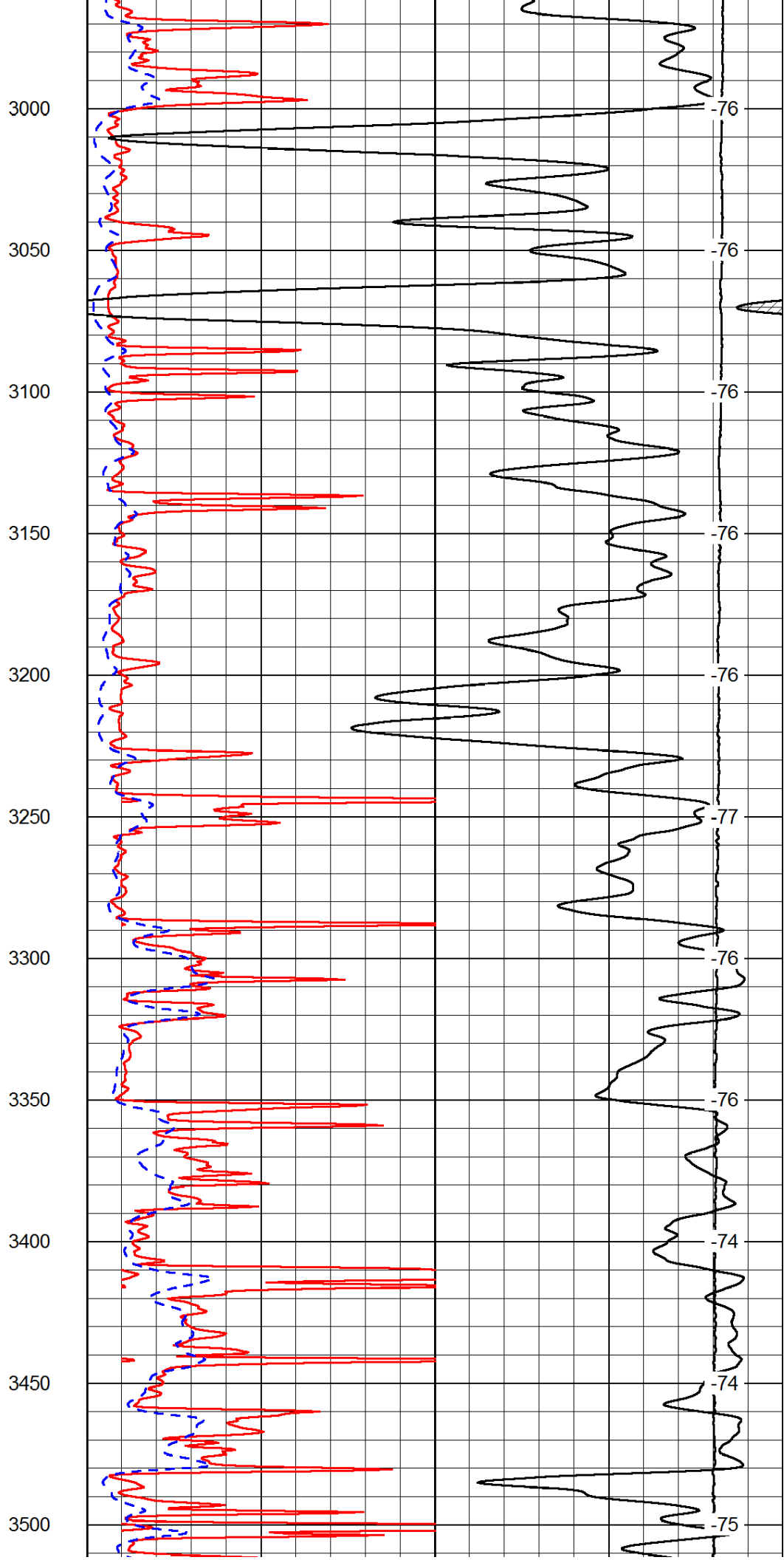
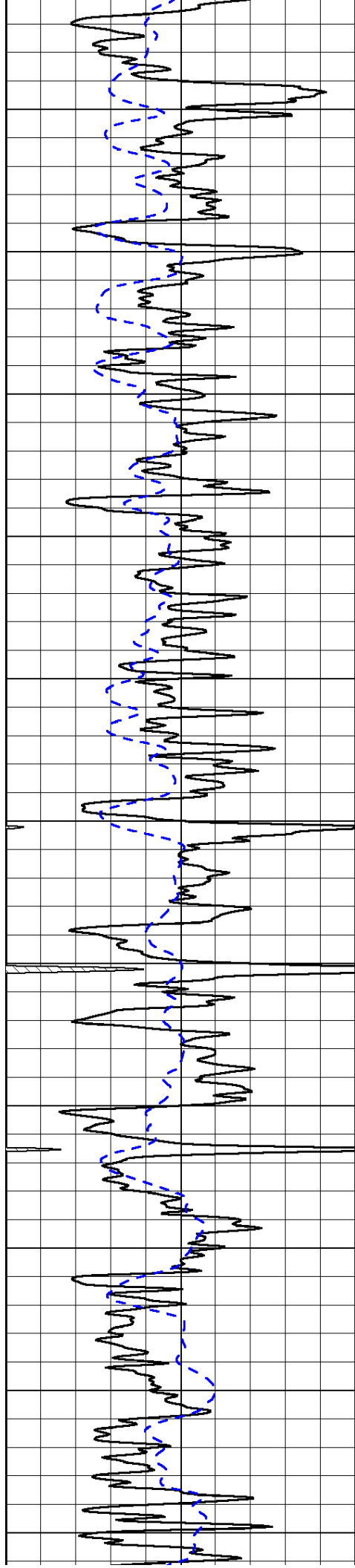


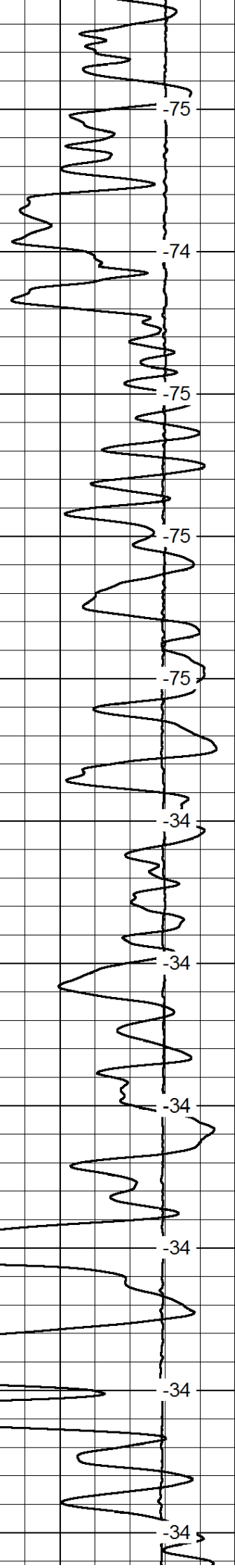
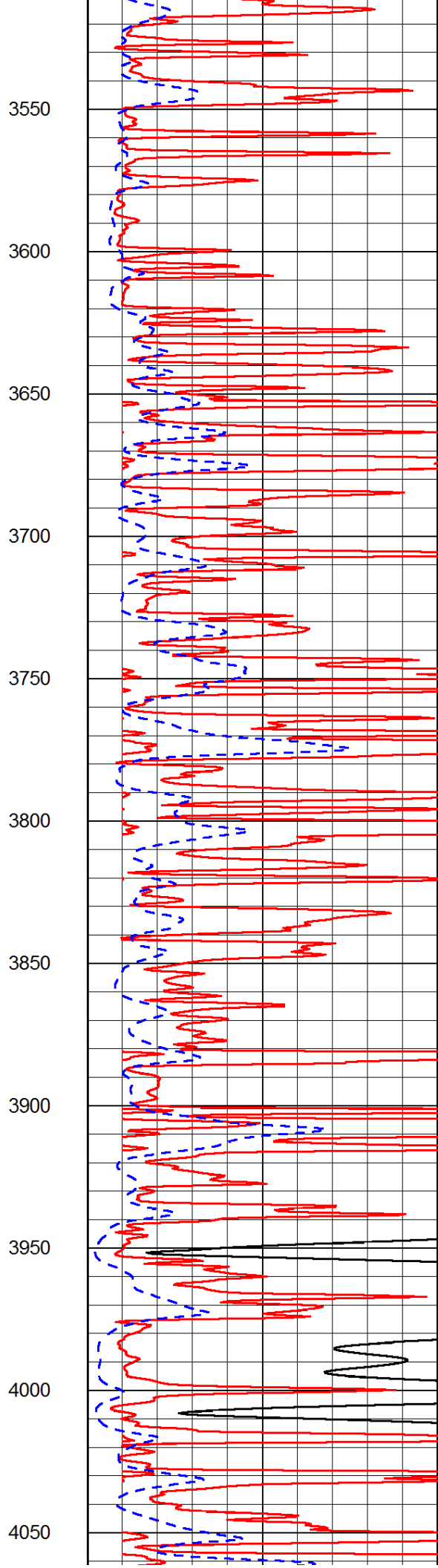
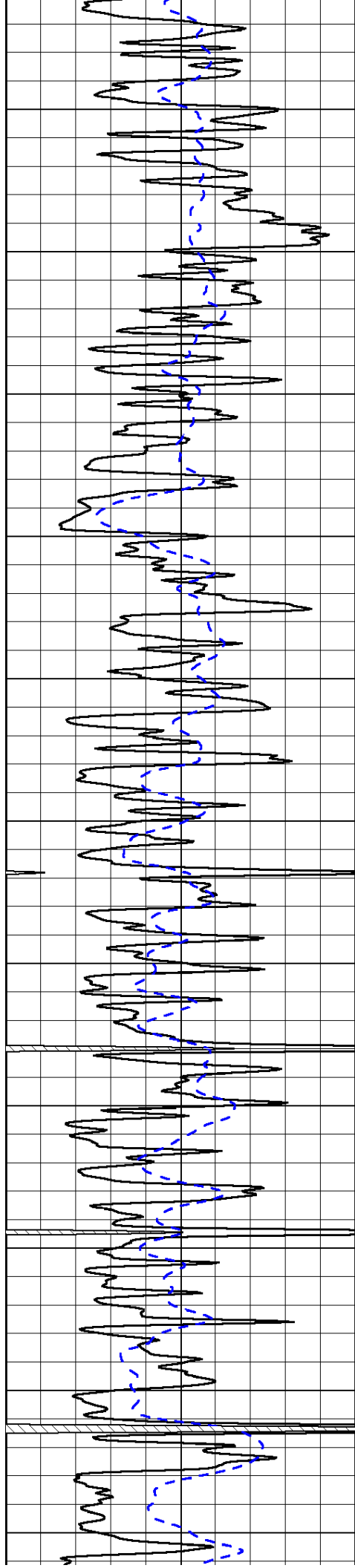


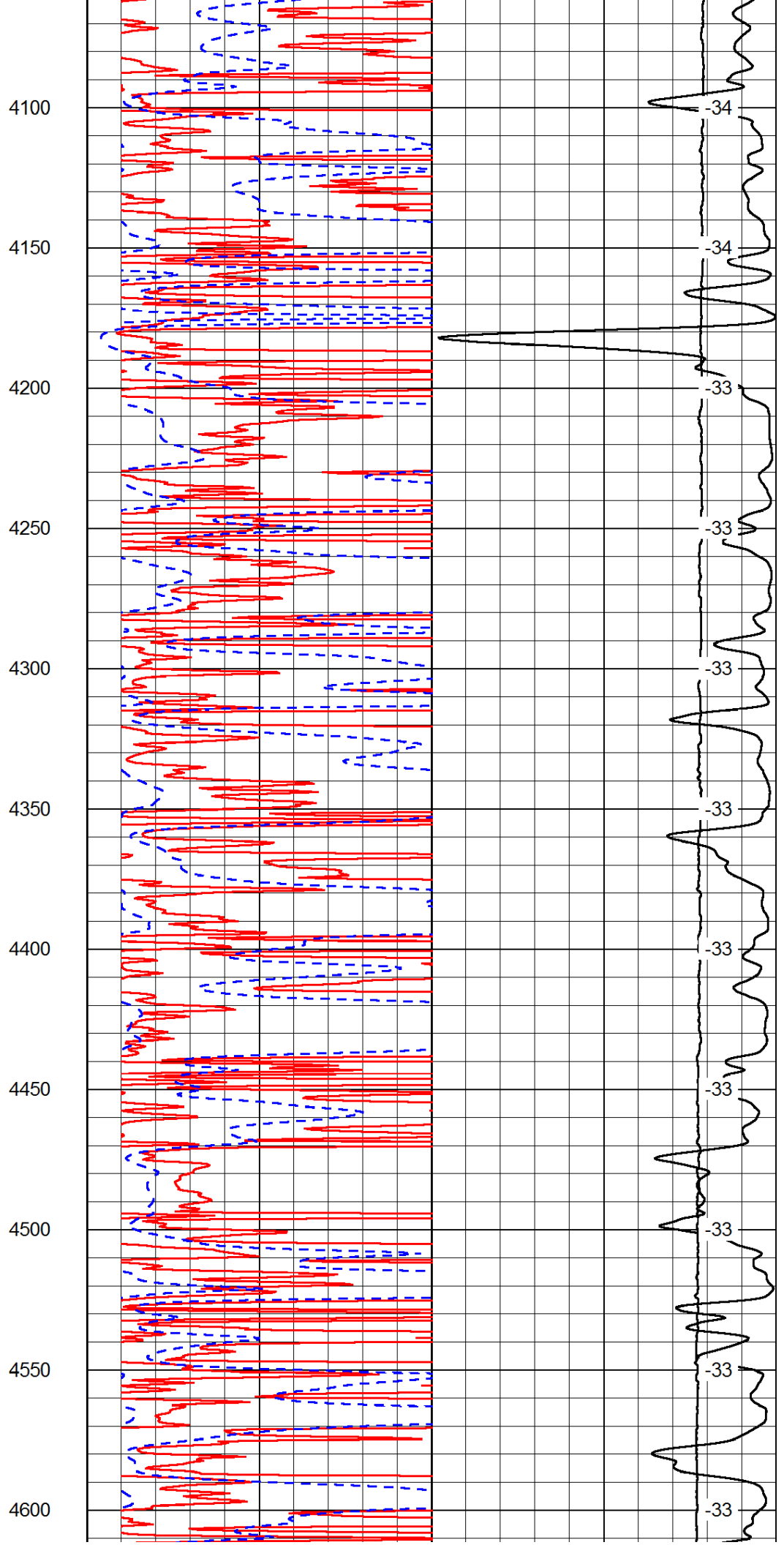
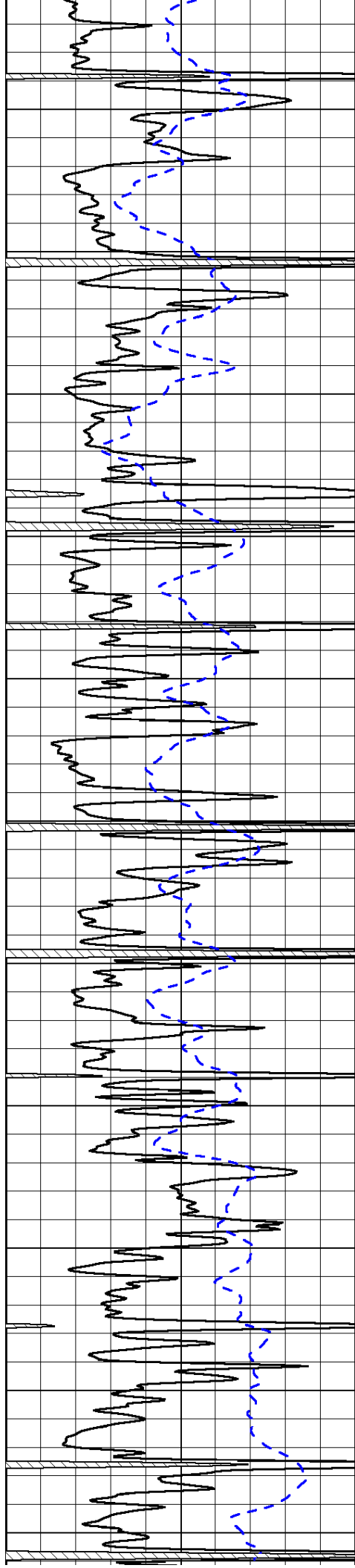


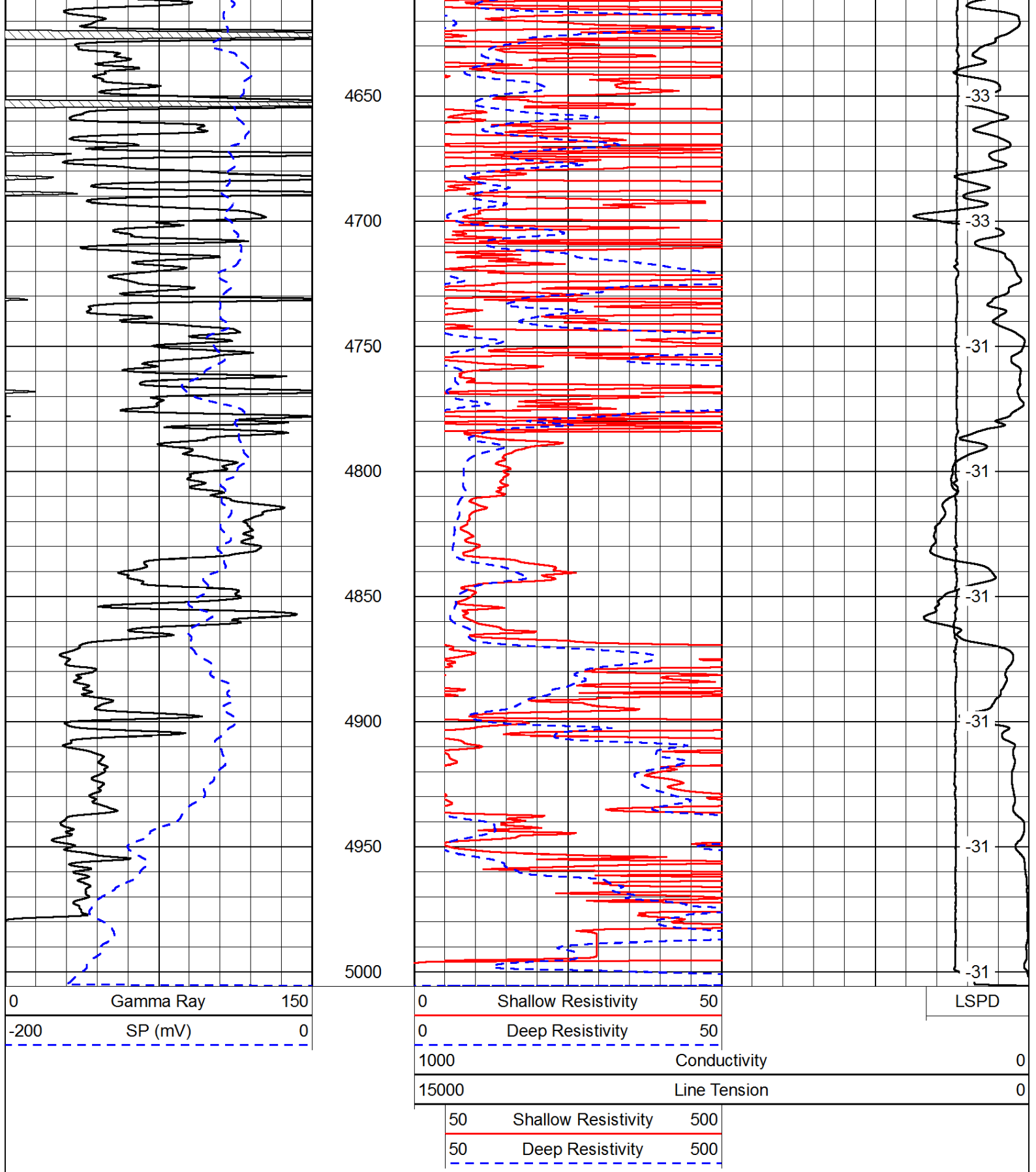




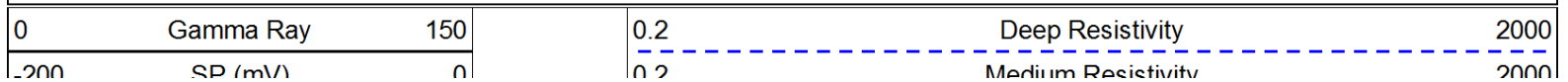




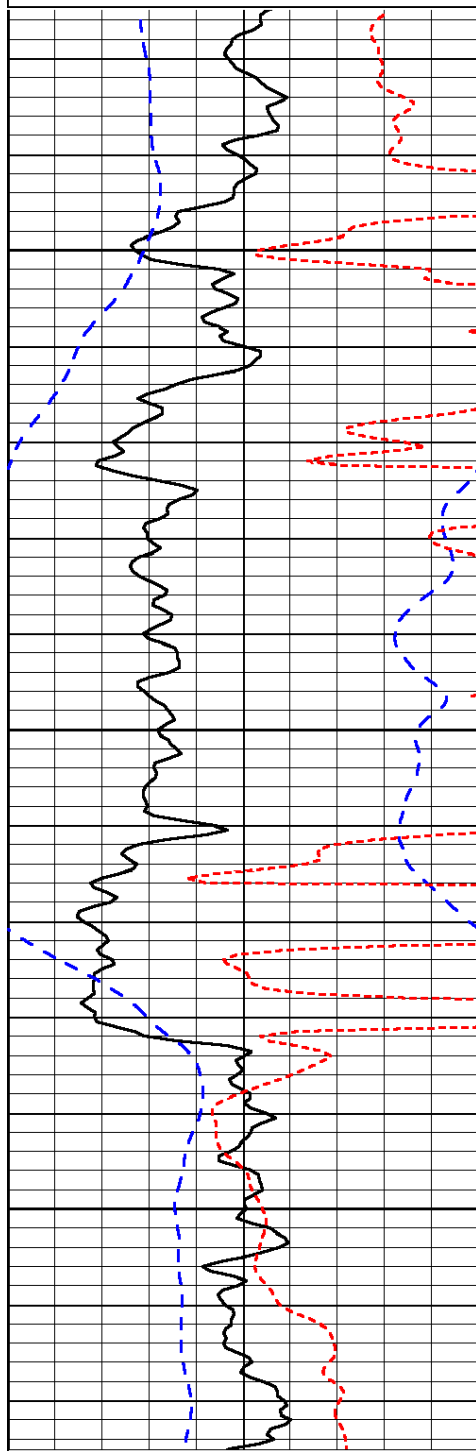




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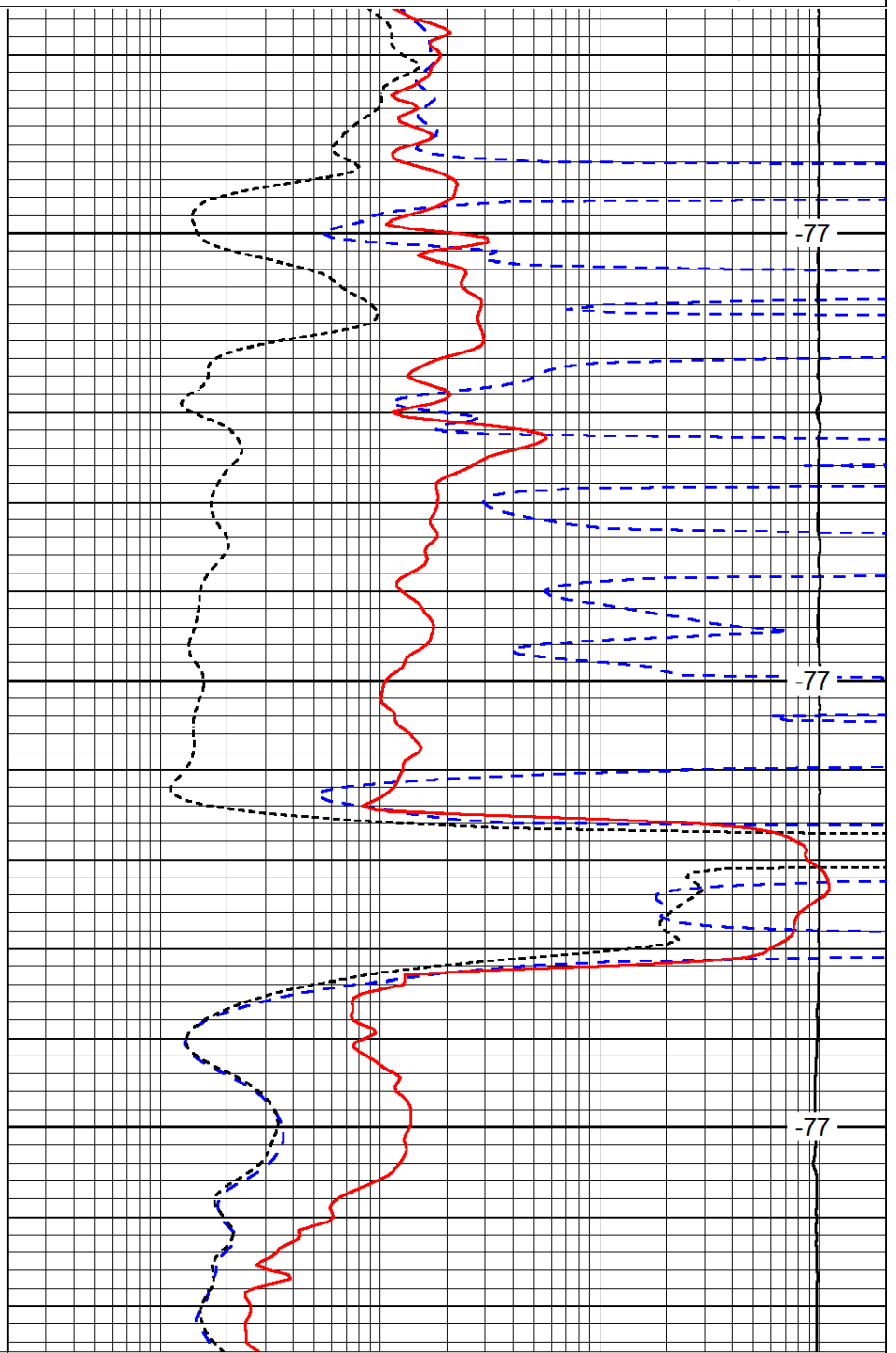


200
-160 RxoRt 40



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

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



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

LSPD

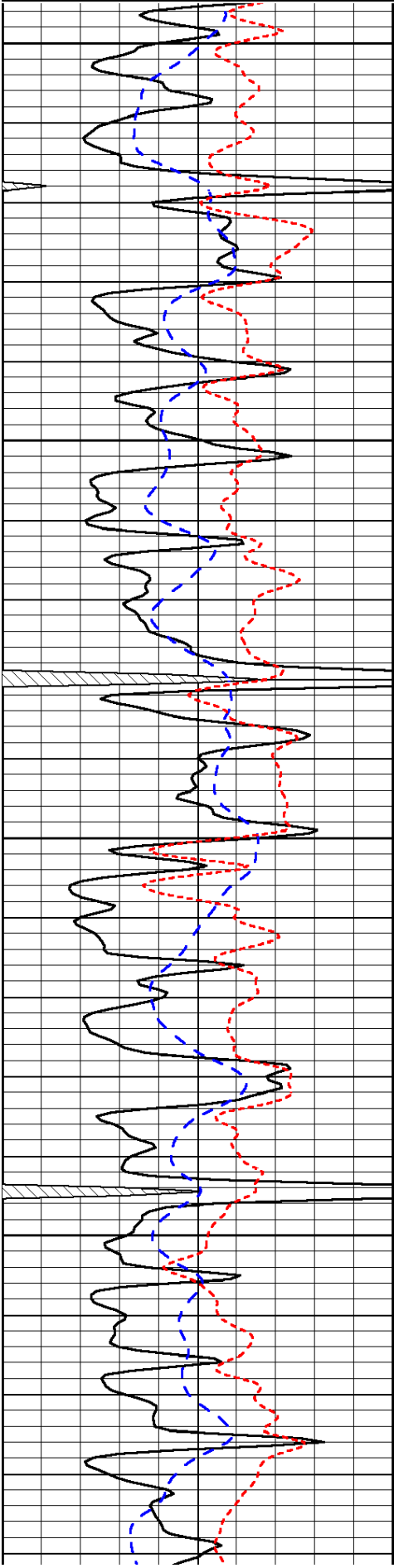
LSPD

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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

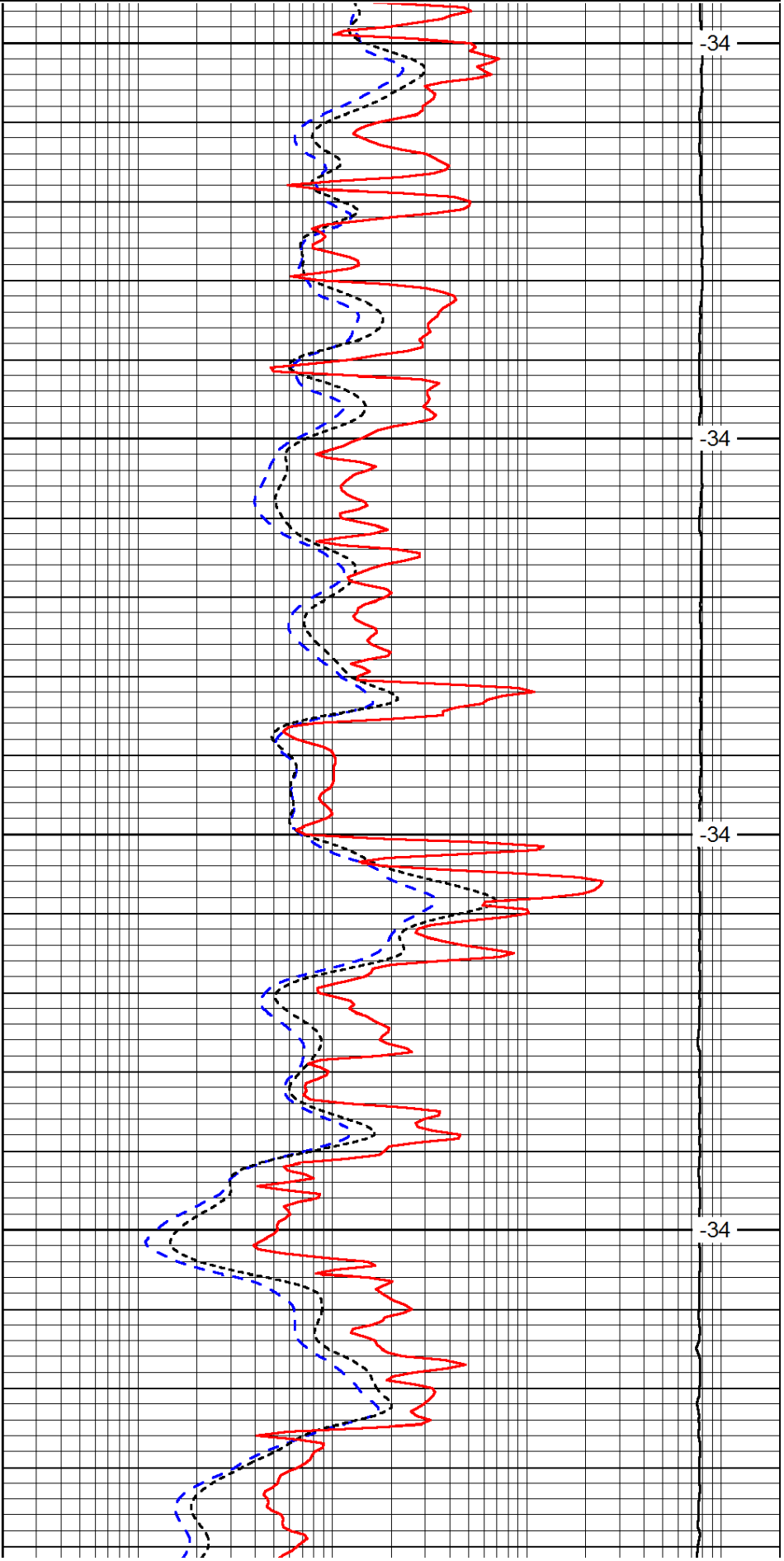


3800

3850

3900

3950

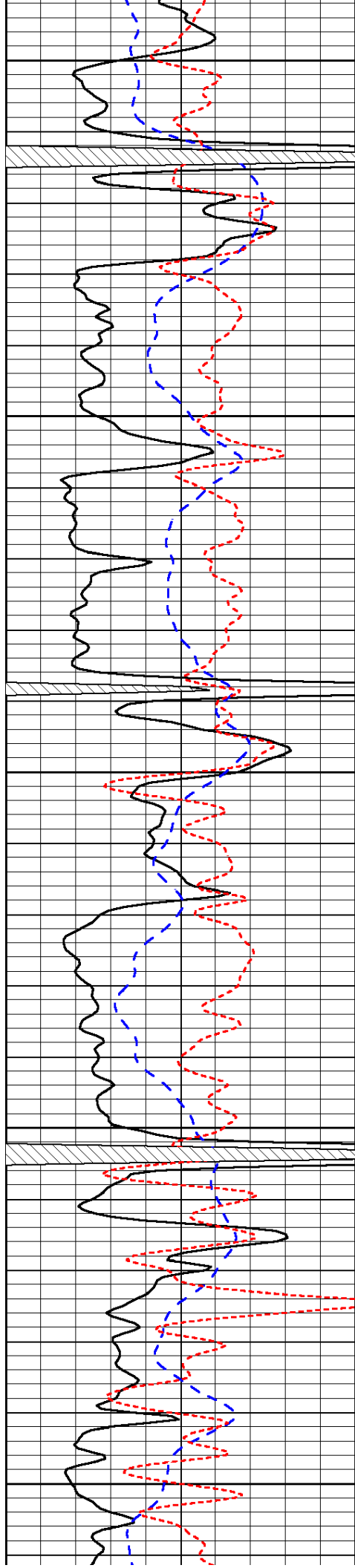


-34

-34

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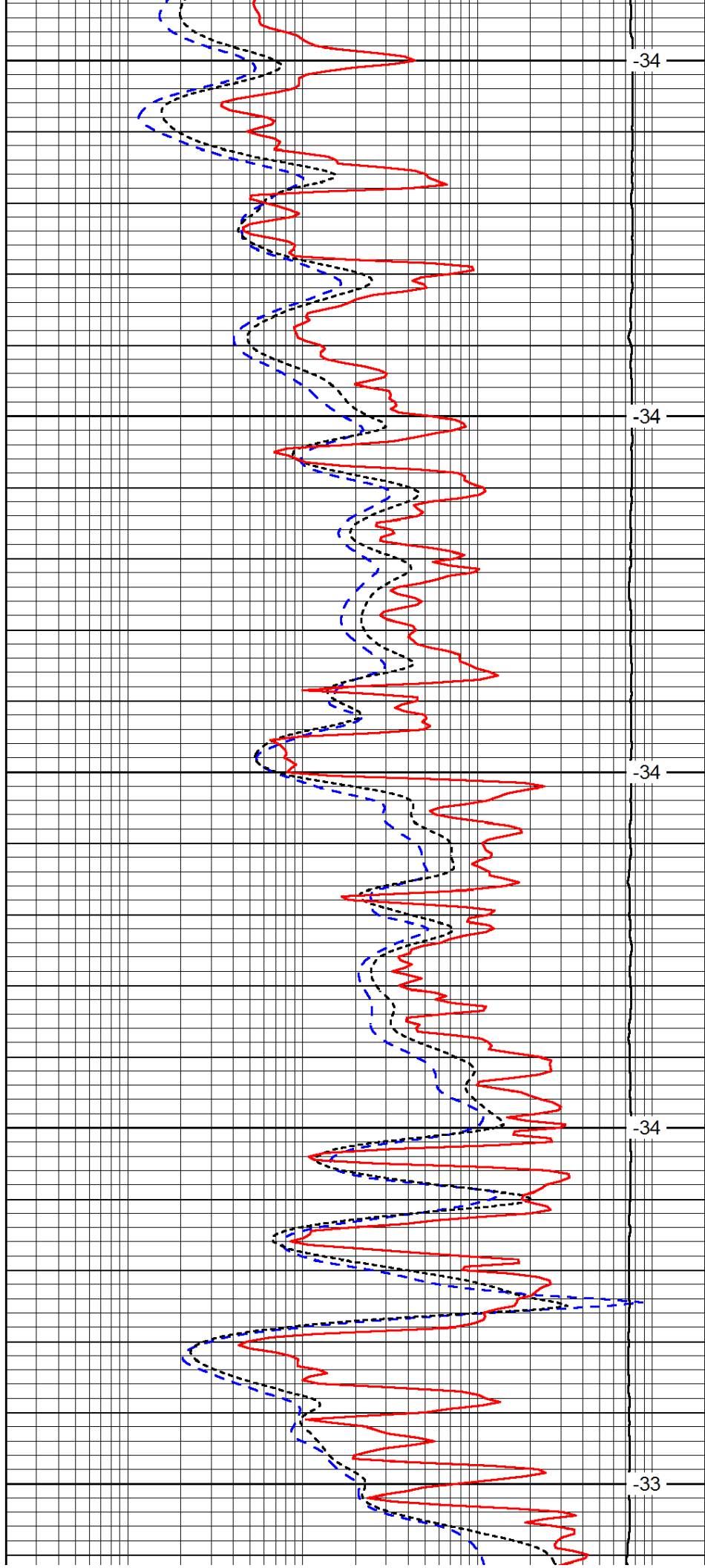
4000

4050

4100

4150

4200



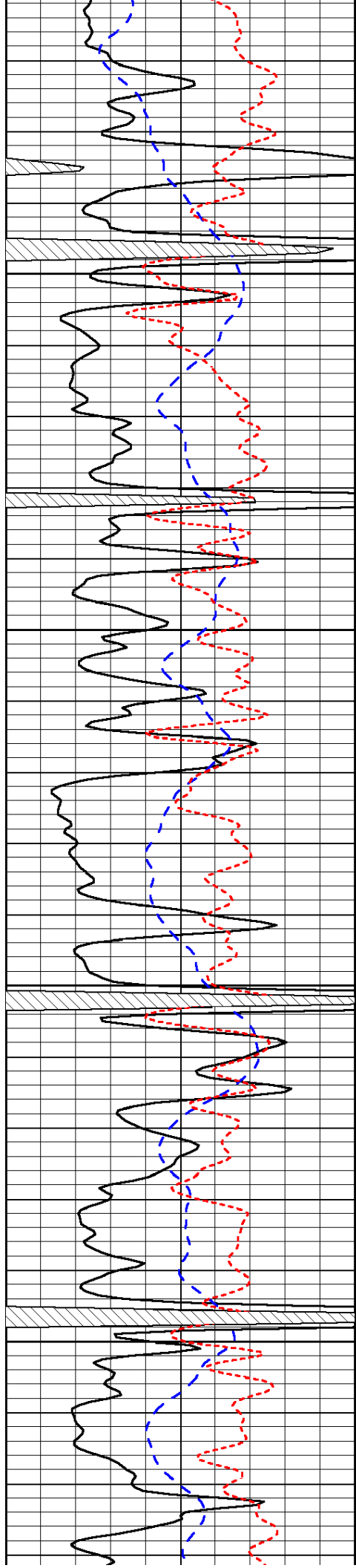
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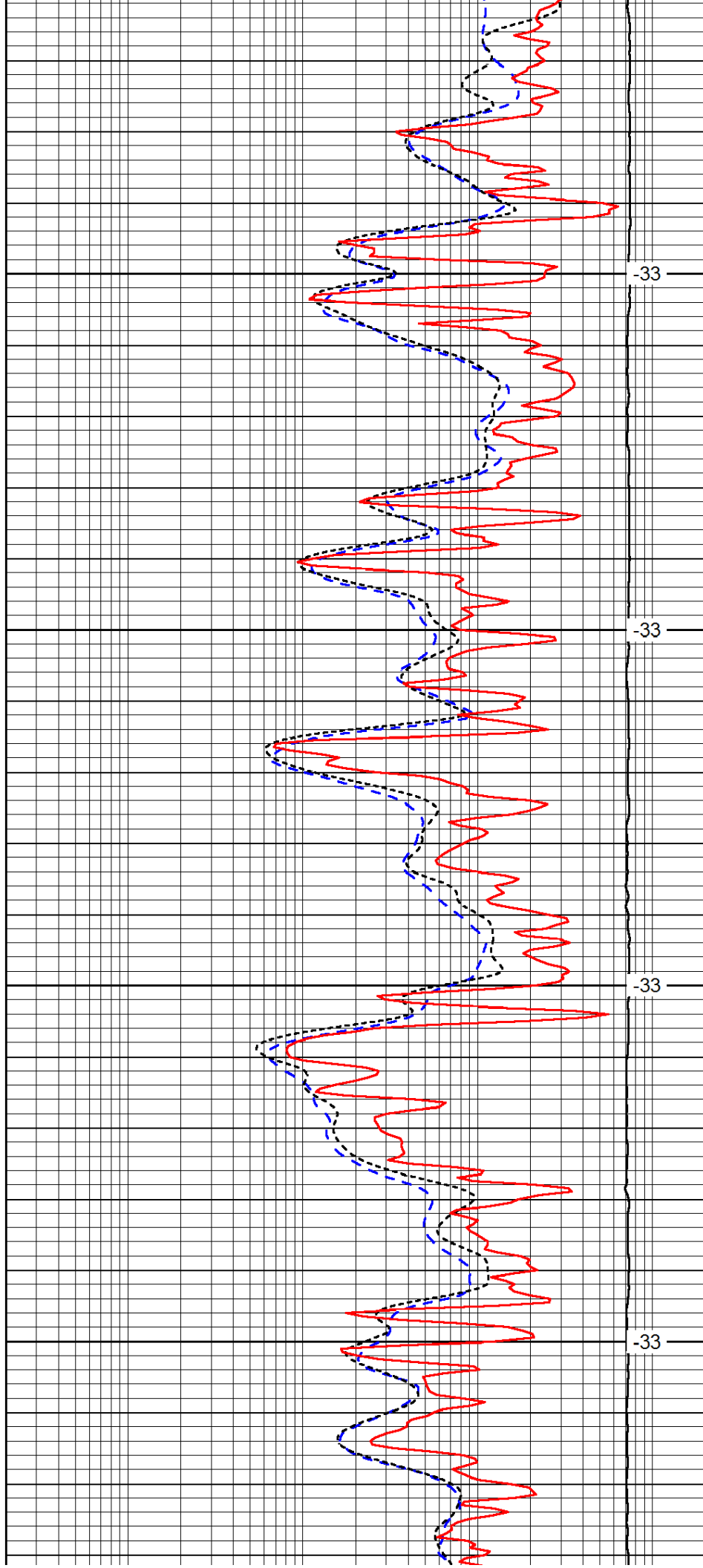


4250

4300

4350

4400

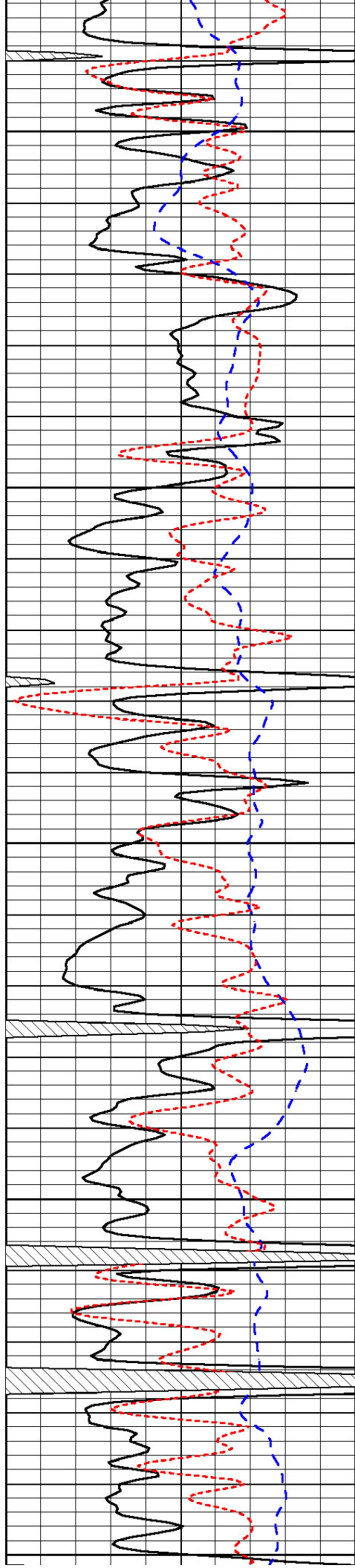


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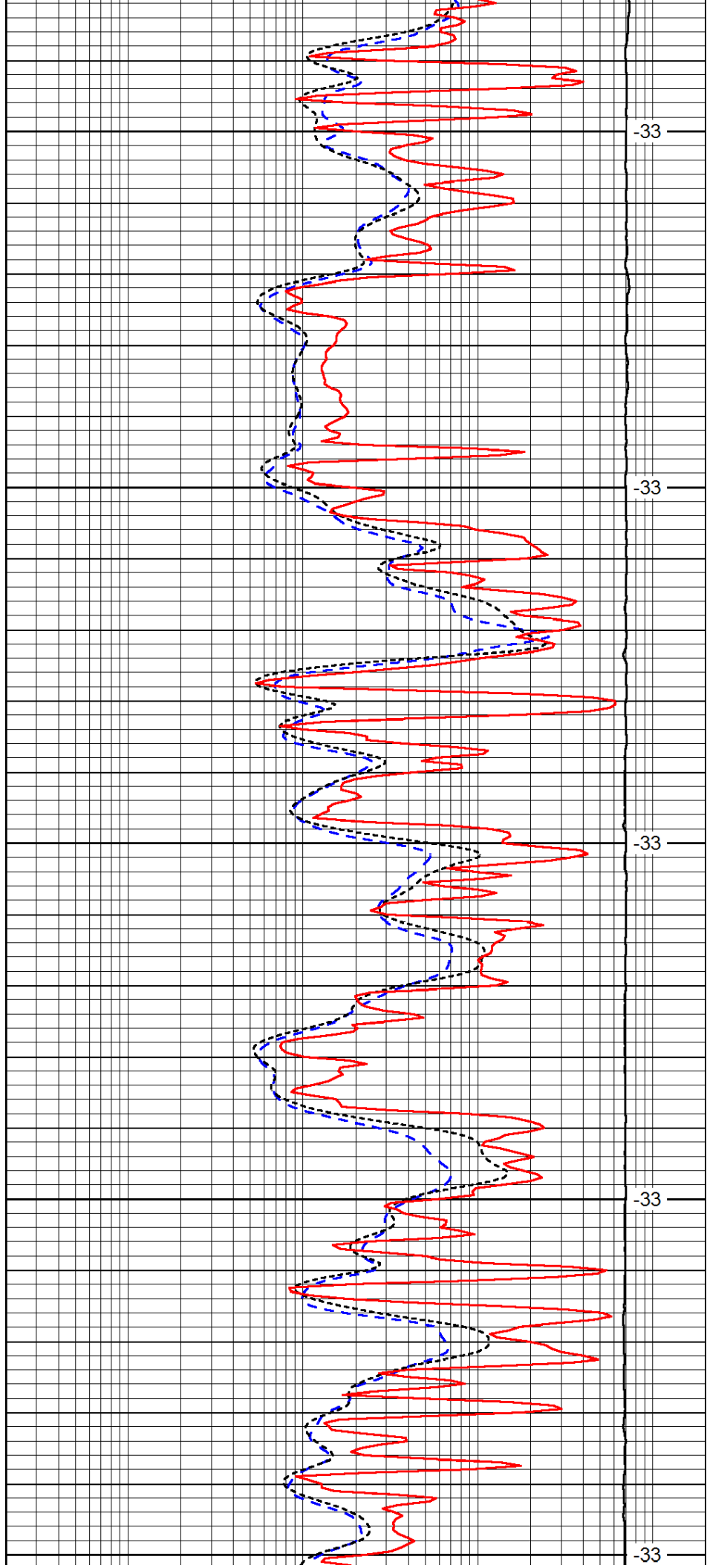
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4600

4650



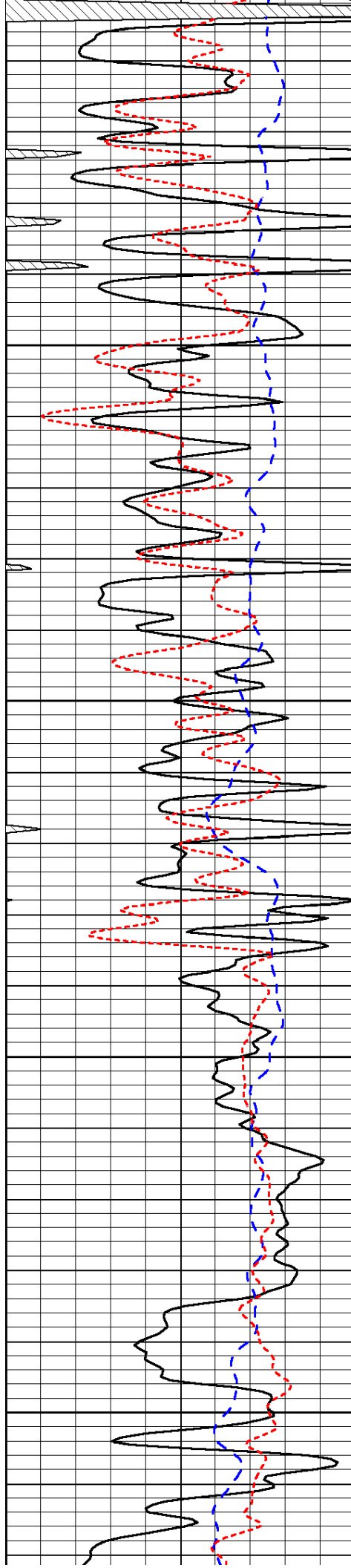
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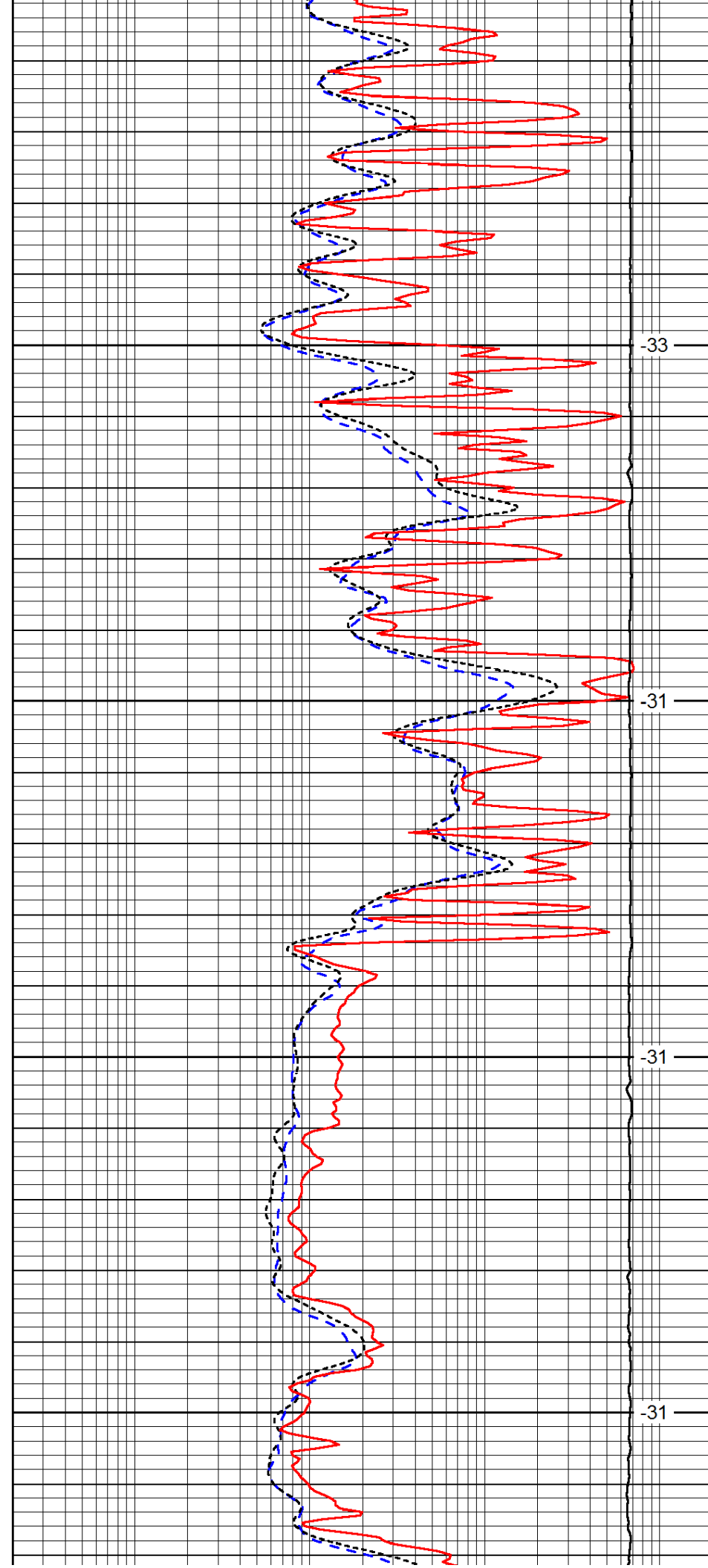


4700

4750

4800

4850

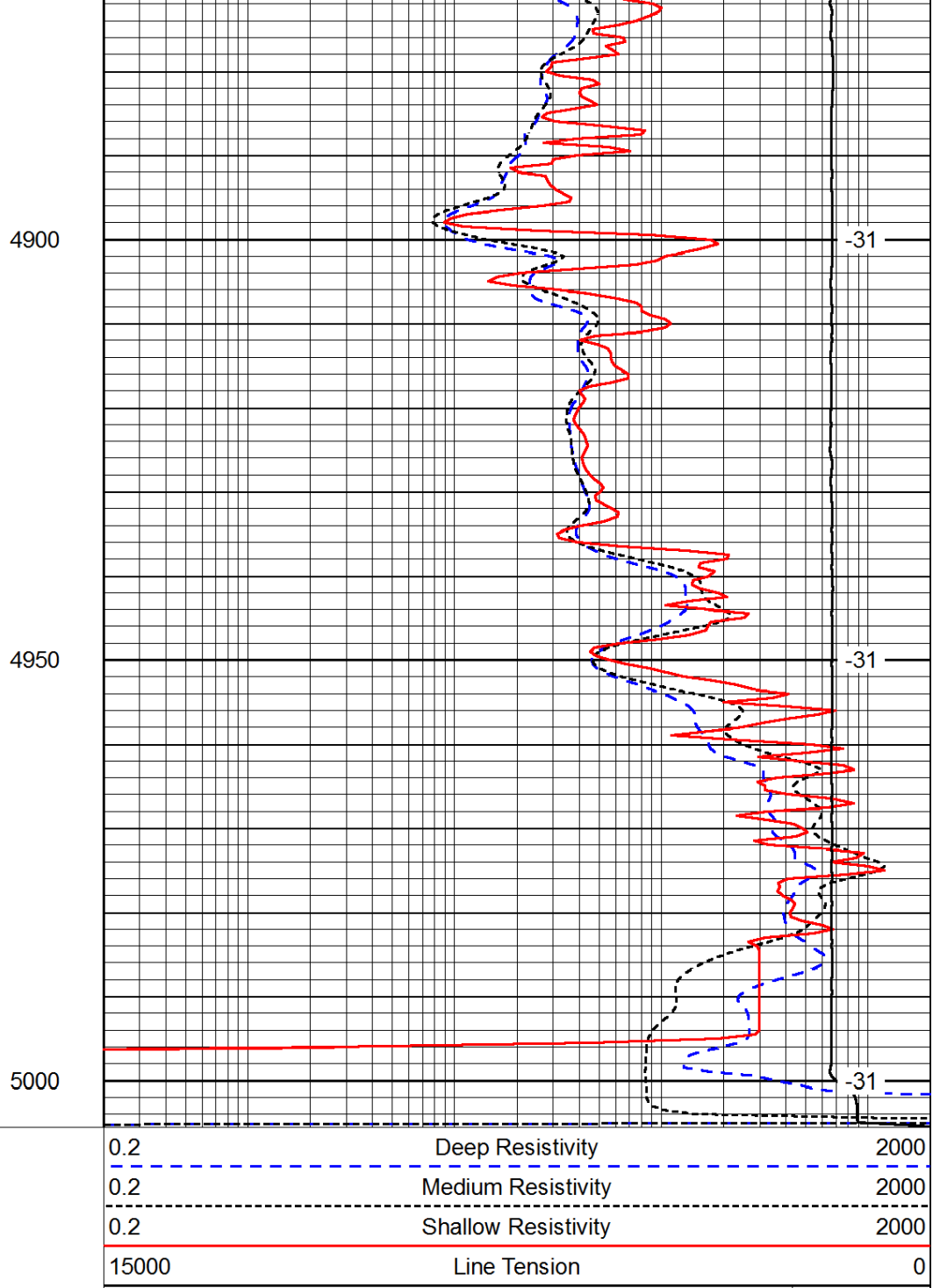
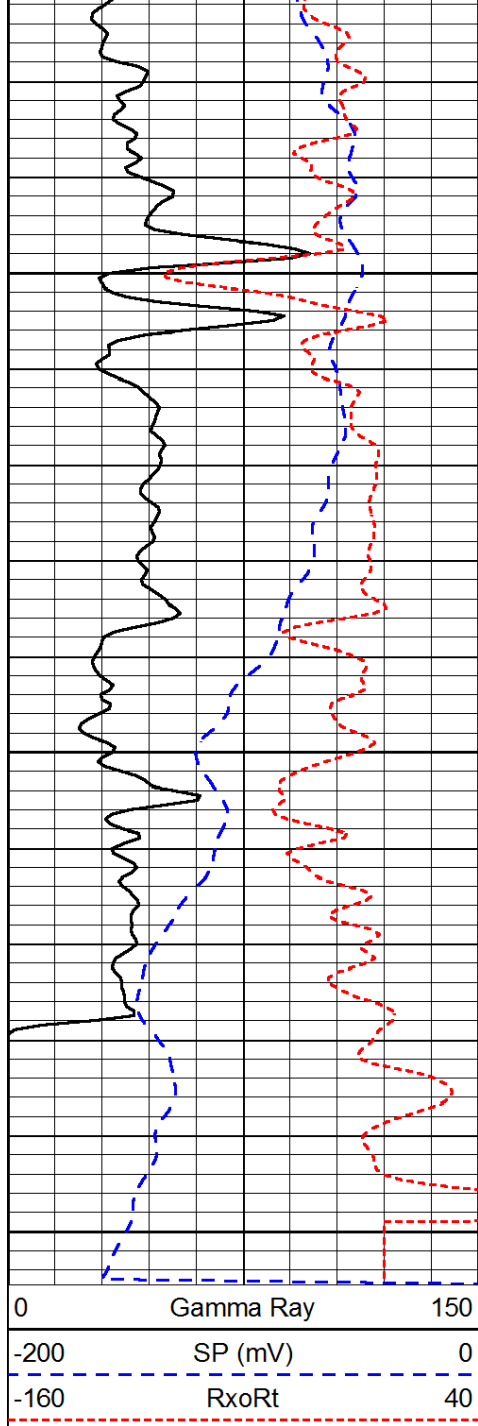


-33

-31

-31

-31



LSPD