



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.		
	Well Rothe #2-25		
	Field Unknown		
	County	Ness	State Kansas
	Location	2197' FNL & 2282' FEL	
	Sec: 25	Twp: 19 S	Rge: 25 W
	Permanent Datum	Ground Level	Elevation 2358
	Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum
	Drilling Measured From	Kelly Bushing	
Date		4/2/2013	
Run Number		One	
Depth Driller		4550	
Depth Logger		4552	
Bottom Logged Interval		4551	
Top Log Interval		200	
Casing Driller		8.625 @ 224	
Casing Logger		224	
Bit Size		7.875	
Type Fluid in Hole		Chemical	
Salinity, ppm CL		3800	
Density / Viscosity		9.3 52	
pH / Fluid Loss		10.5 6.4	
Source of Sample		Flowline	
Rm @ Meas. Temp		3.5 @ 50	
Rmf @ Meas. Temp		2.62 @ 50	
Rmc @ Meas. Temp		4.72 @ 50	
Source of Rmf / Rmc		Charts	
Rm @ BHT		1.42 @ 124	
Operating Rig Time		4 Hours	
Max Rec. Temp. F		124	
Equipment Number		91	
Location		Hays	
Recorded By		Y. Ruiz	D. Schmidt
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

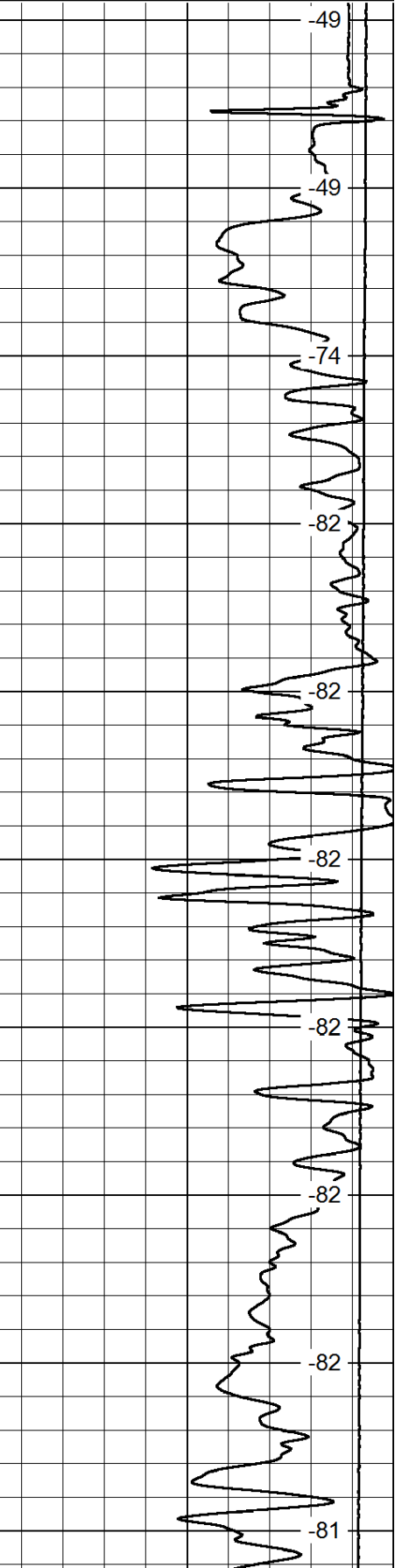
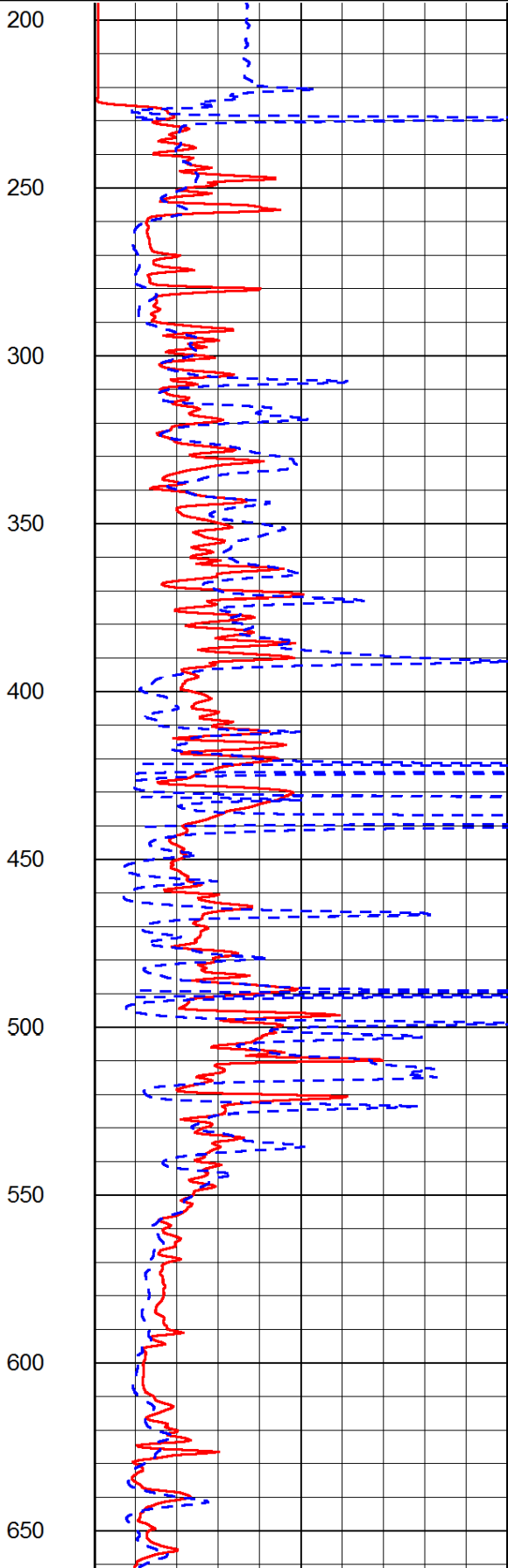
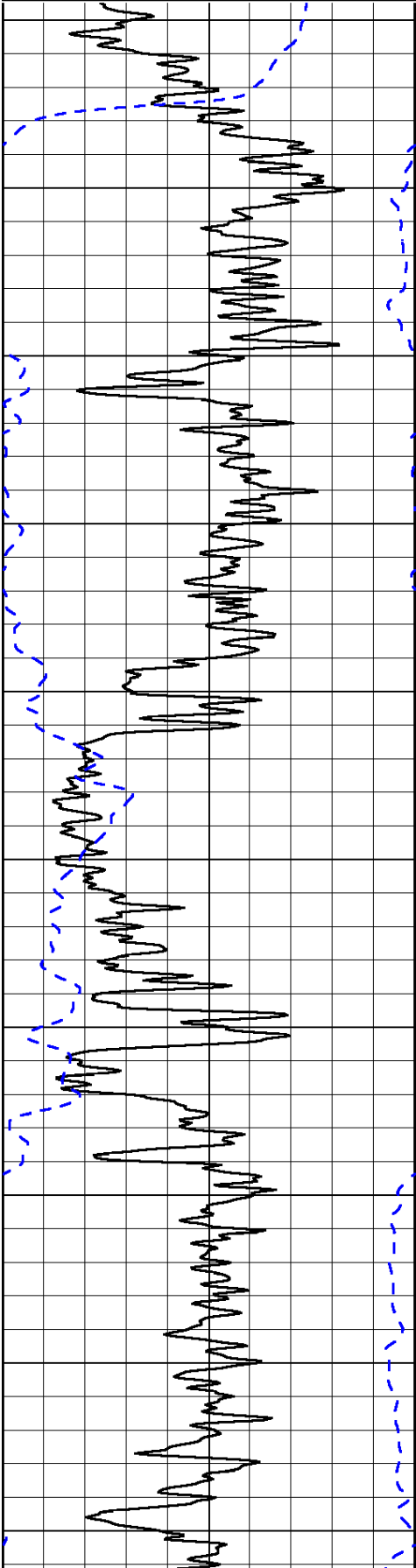
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Ness City,
7 South to 60 Rd, 5 West to L Rd, 2 North, 1/4 West,
North into

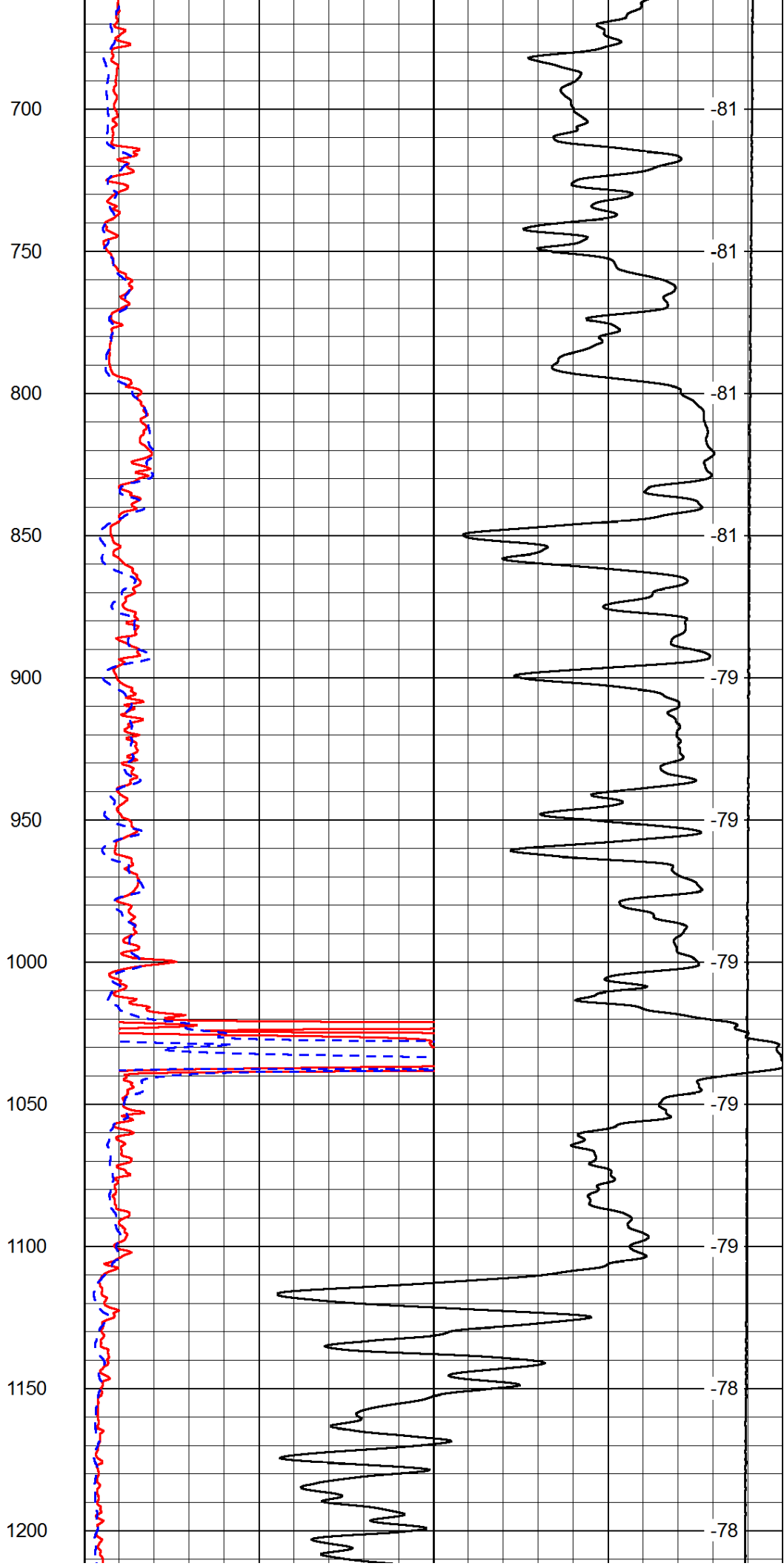
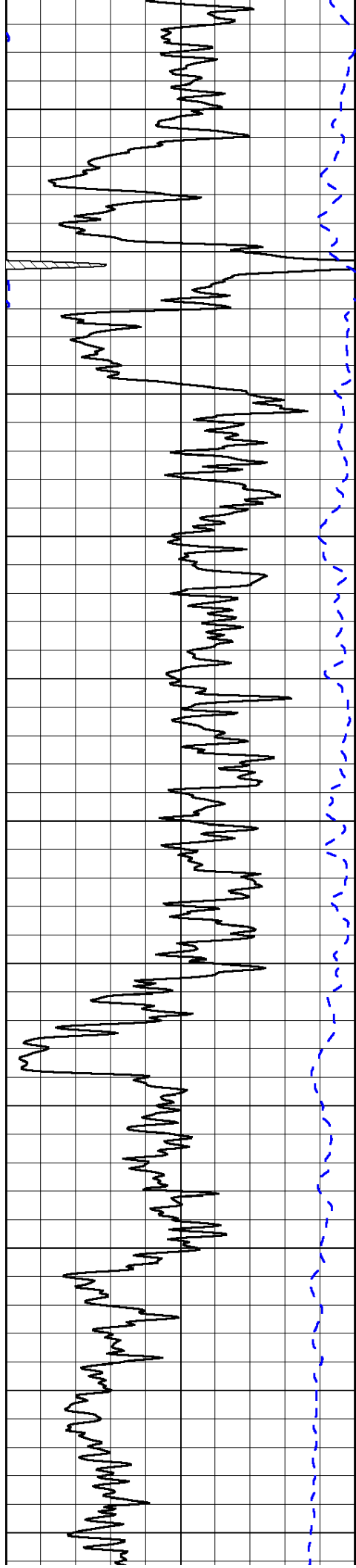
Database File: c:\warrior\data\amwar_rothe #2-25\amwar_040213hd.db
Dataset Pathname: dil\awstk
Presentation Format: dil2in
Dataset Creation: Tue Apr 02 08:38:47 2013
Charted by: Depth in Feet scaled 1:600

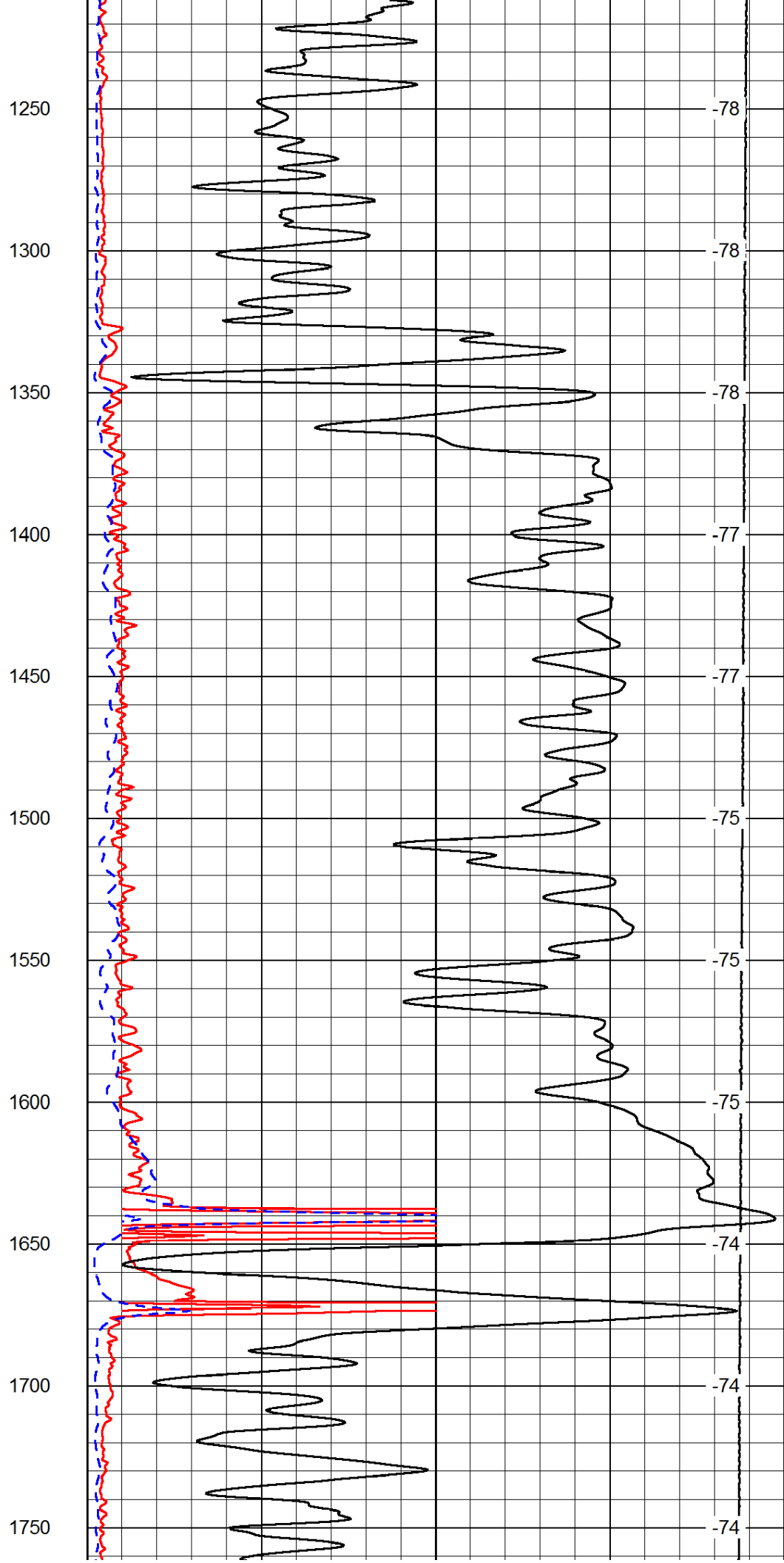
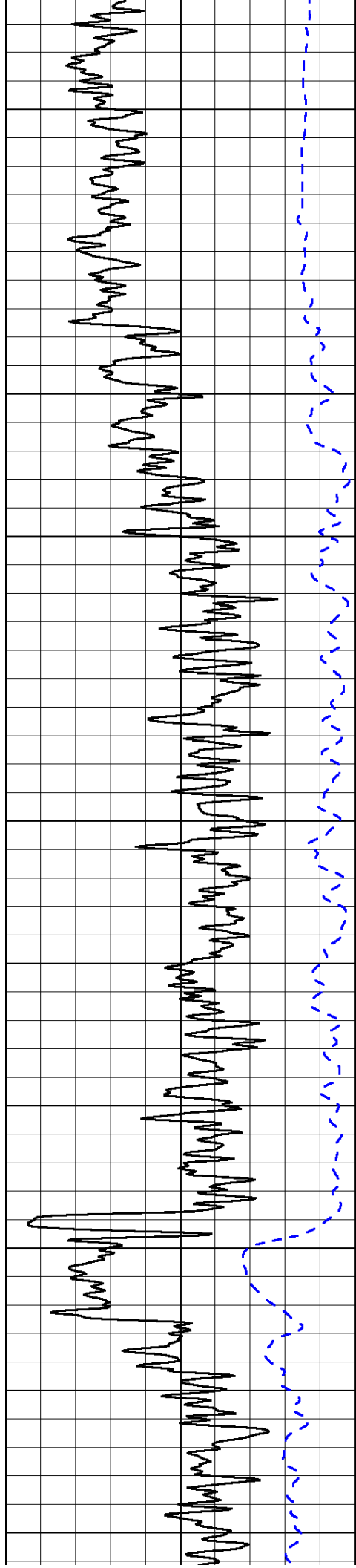
0	Gamma Ray	150
-200	SP (mV)	0

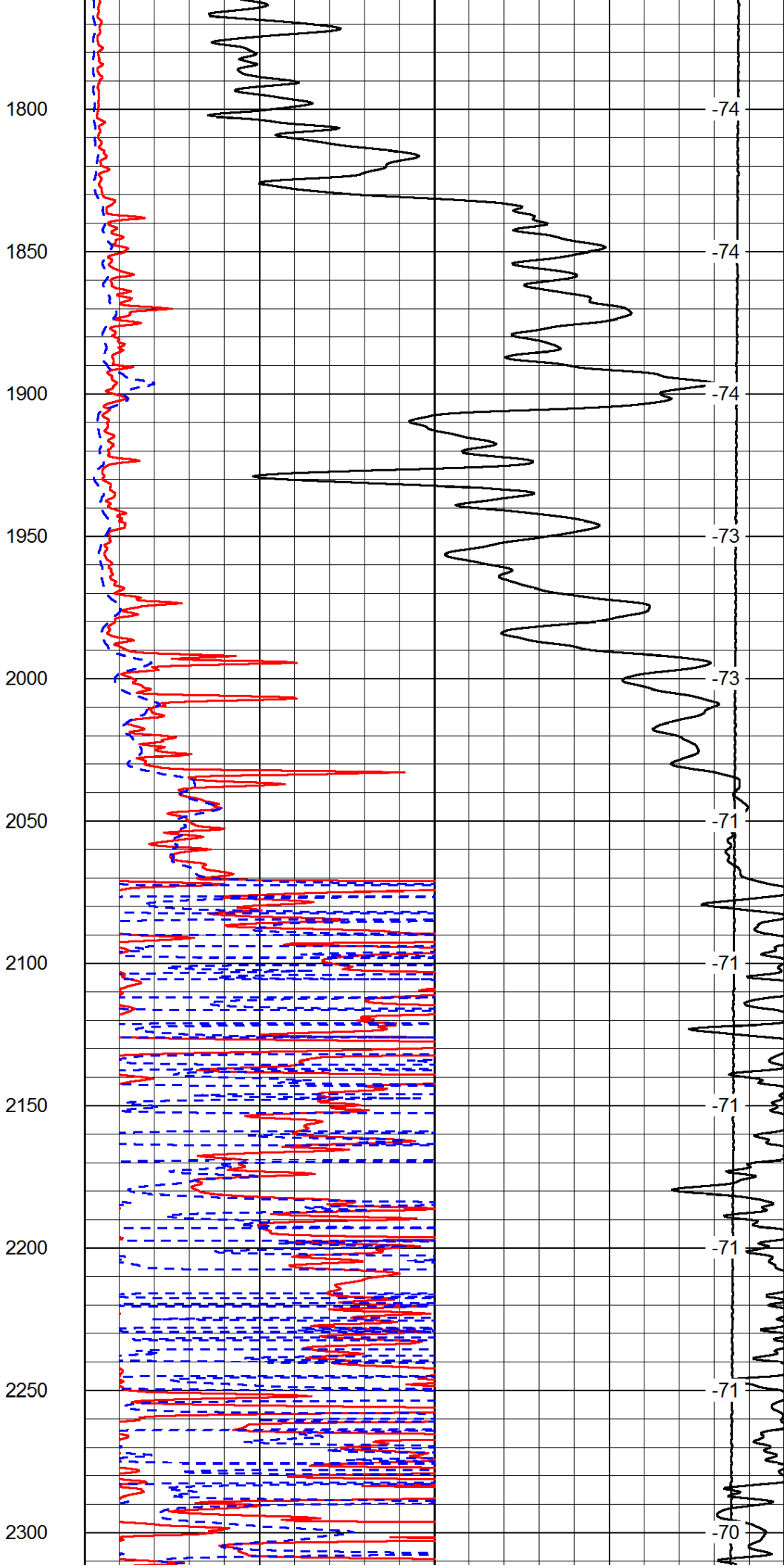
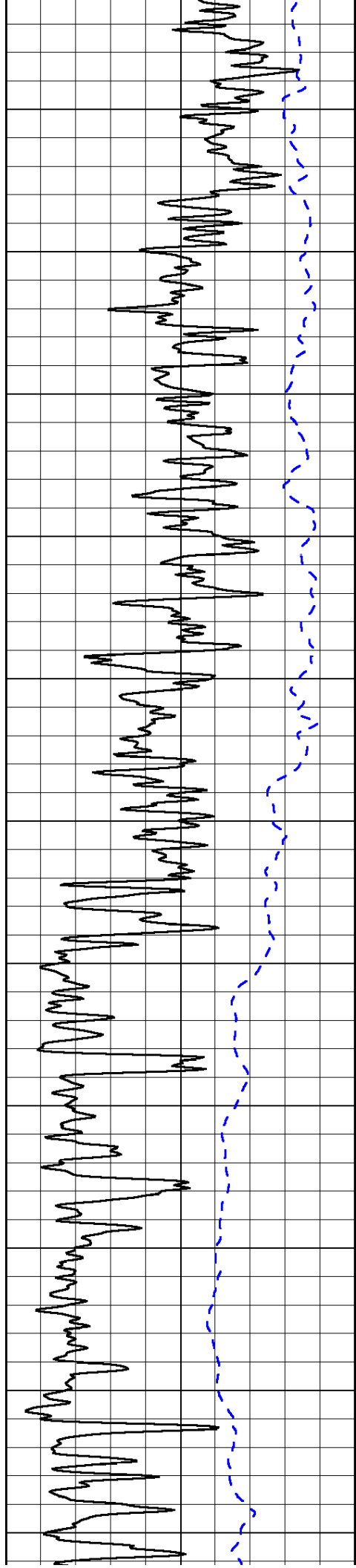
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

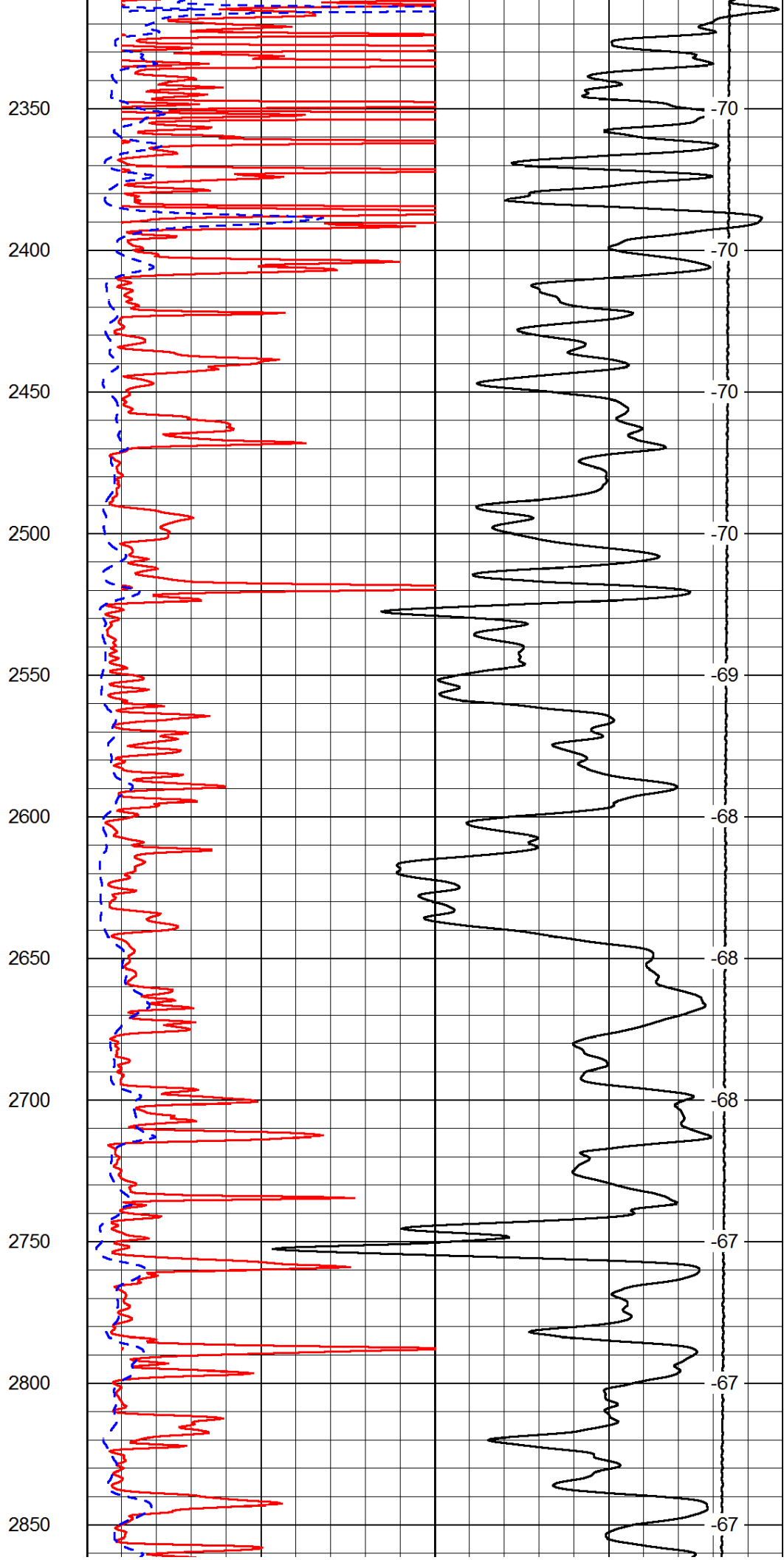
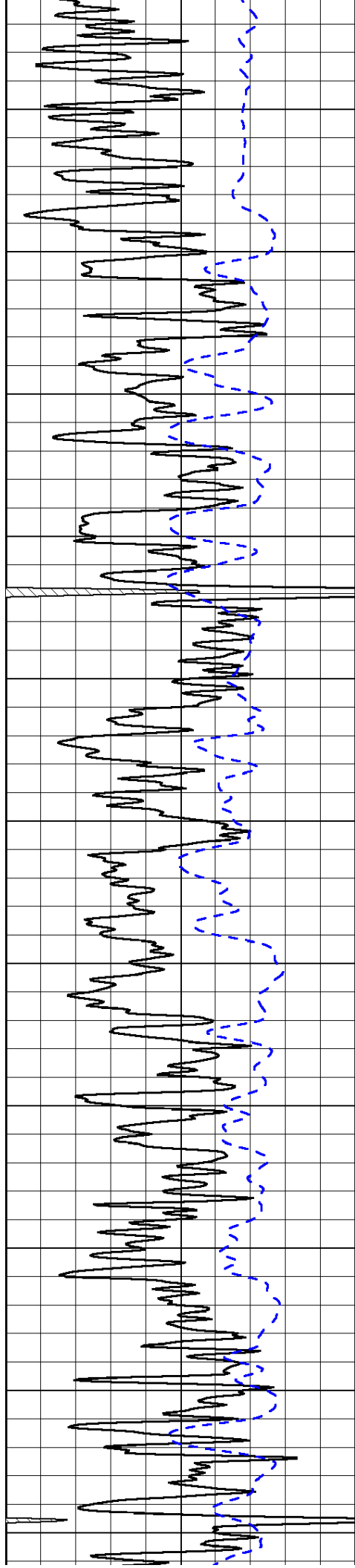
LSPD
0
0

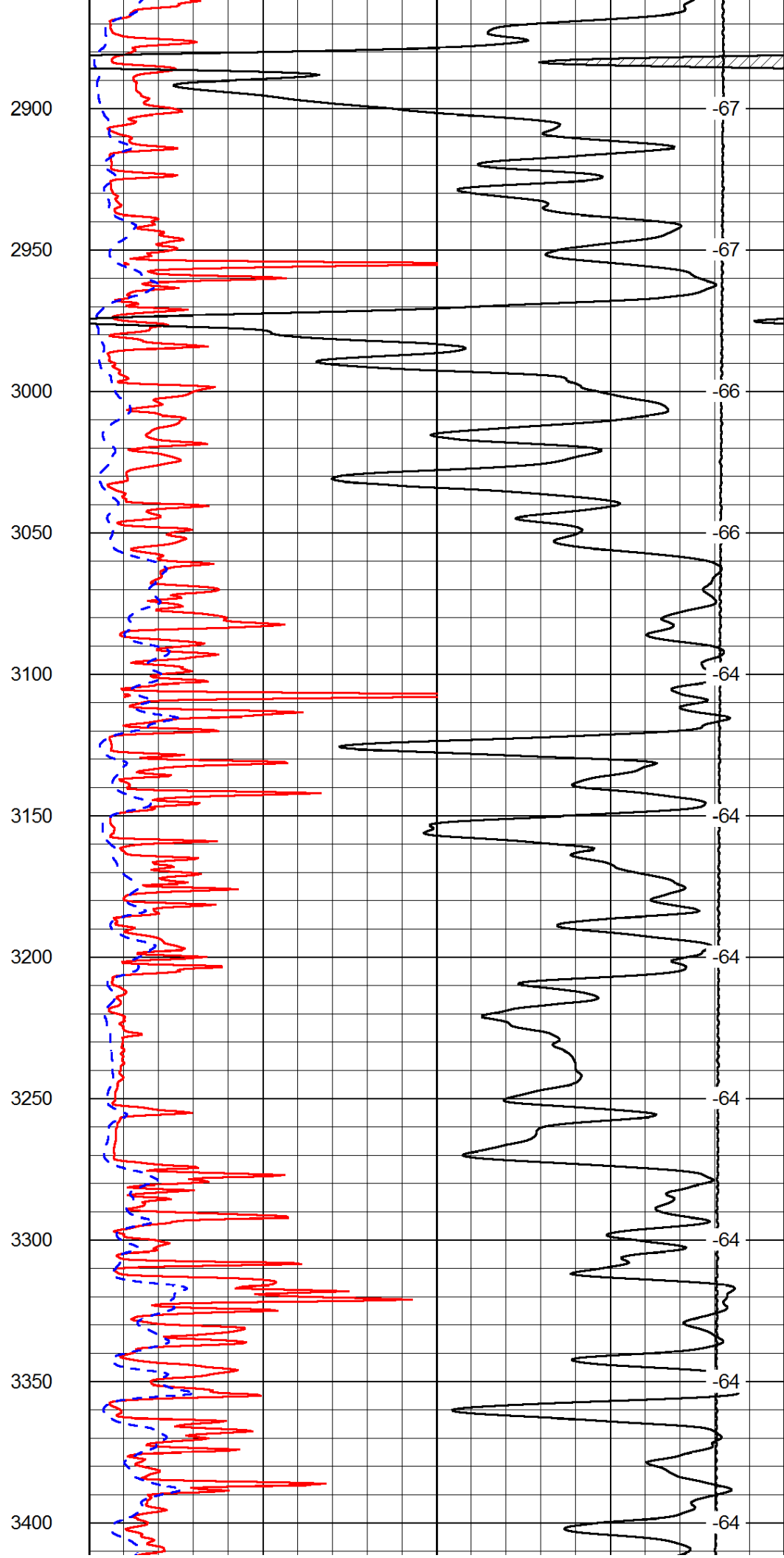
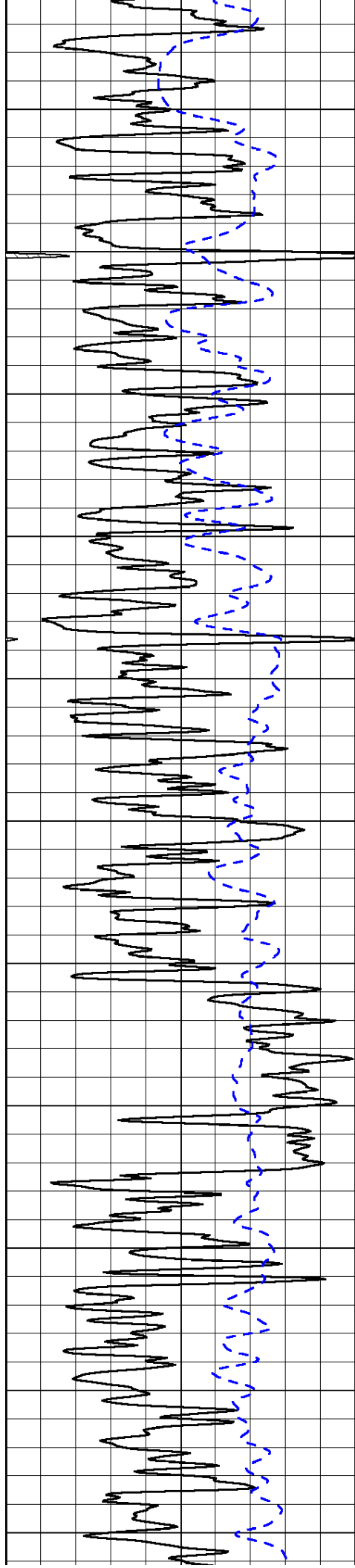


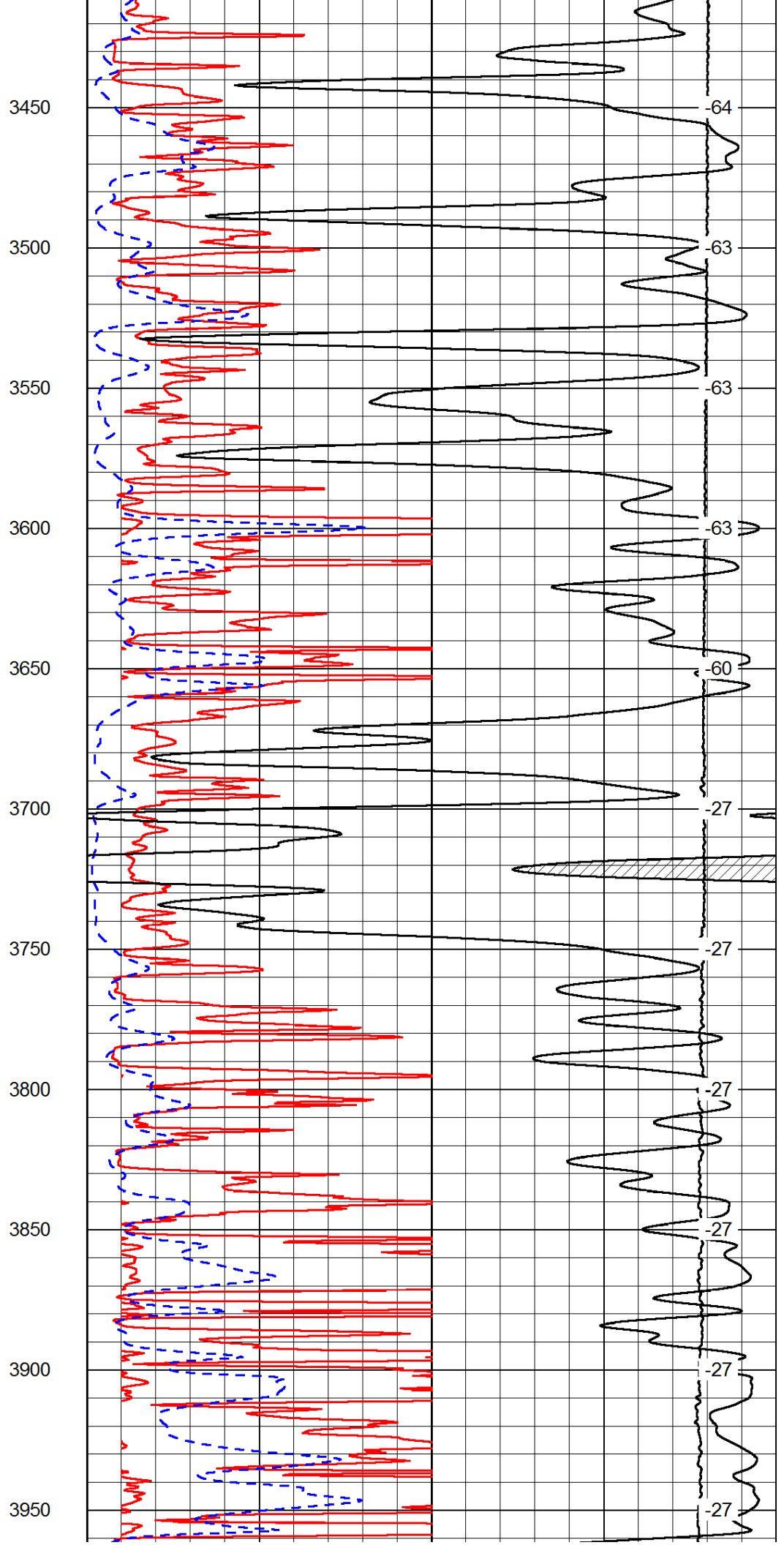
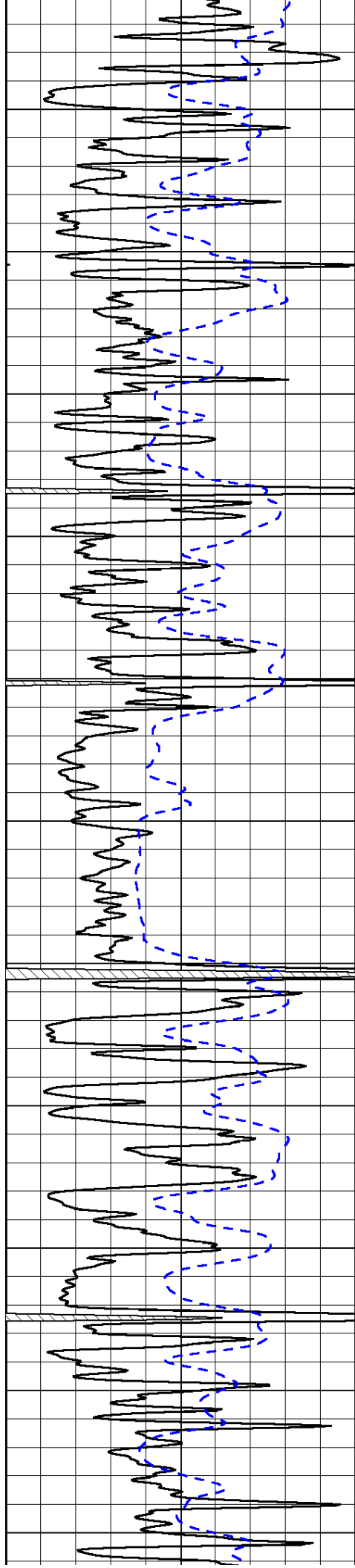


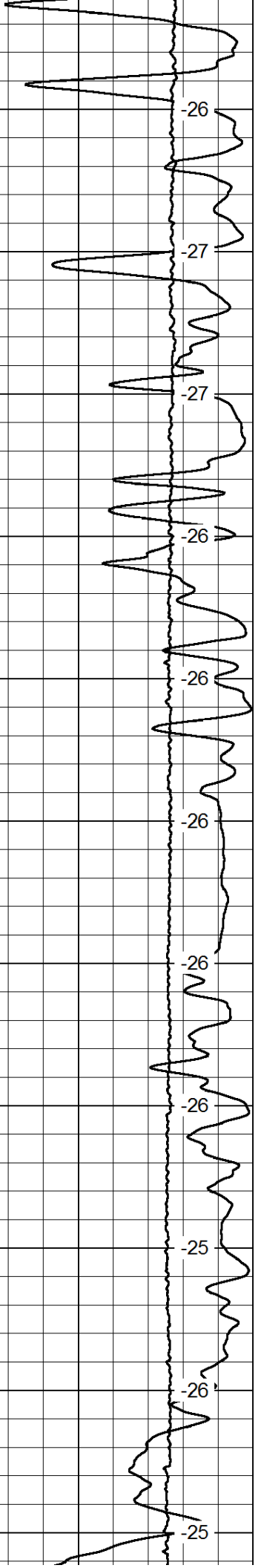
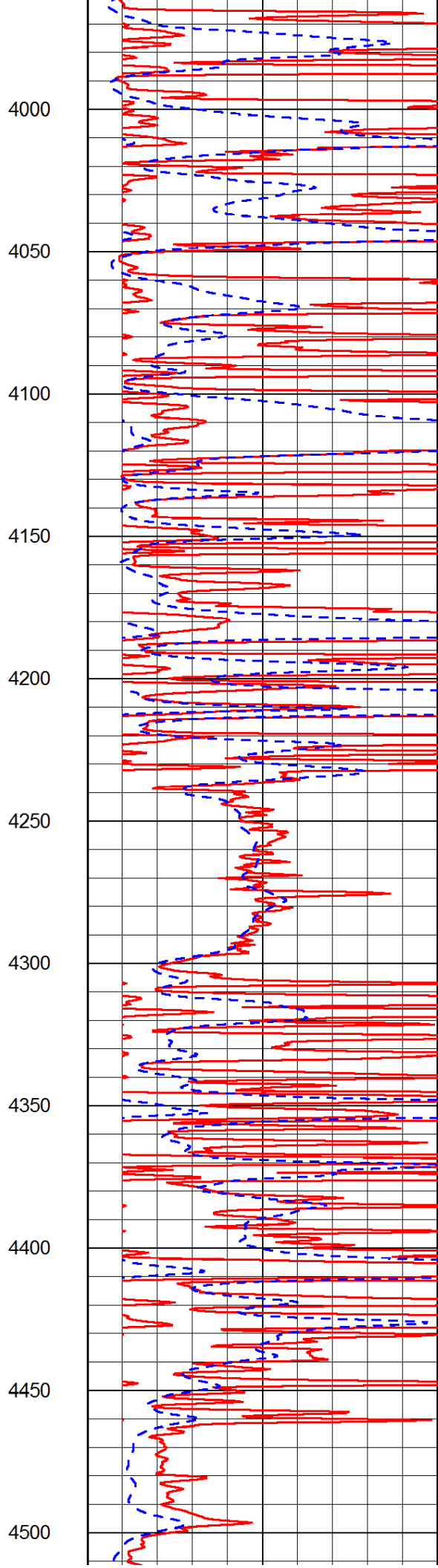
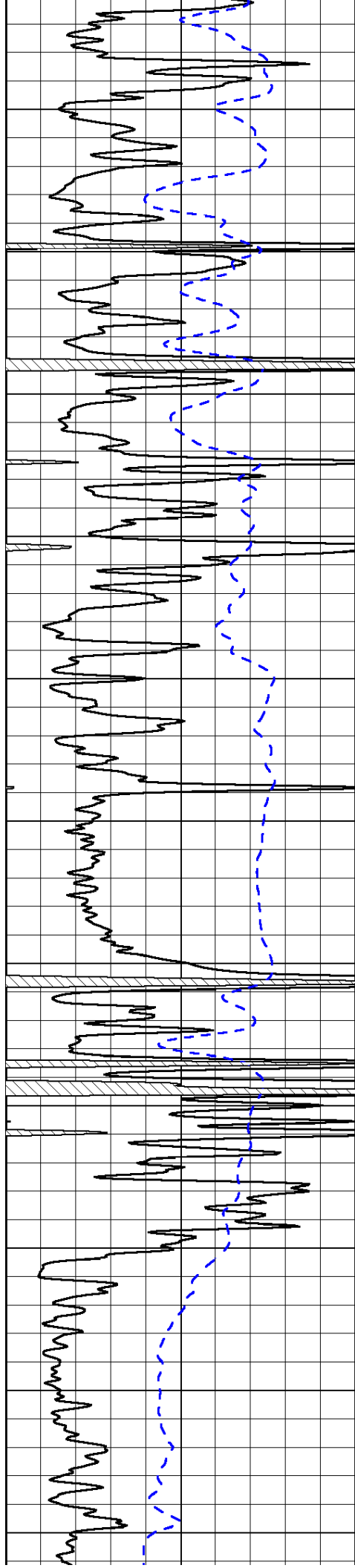


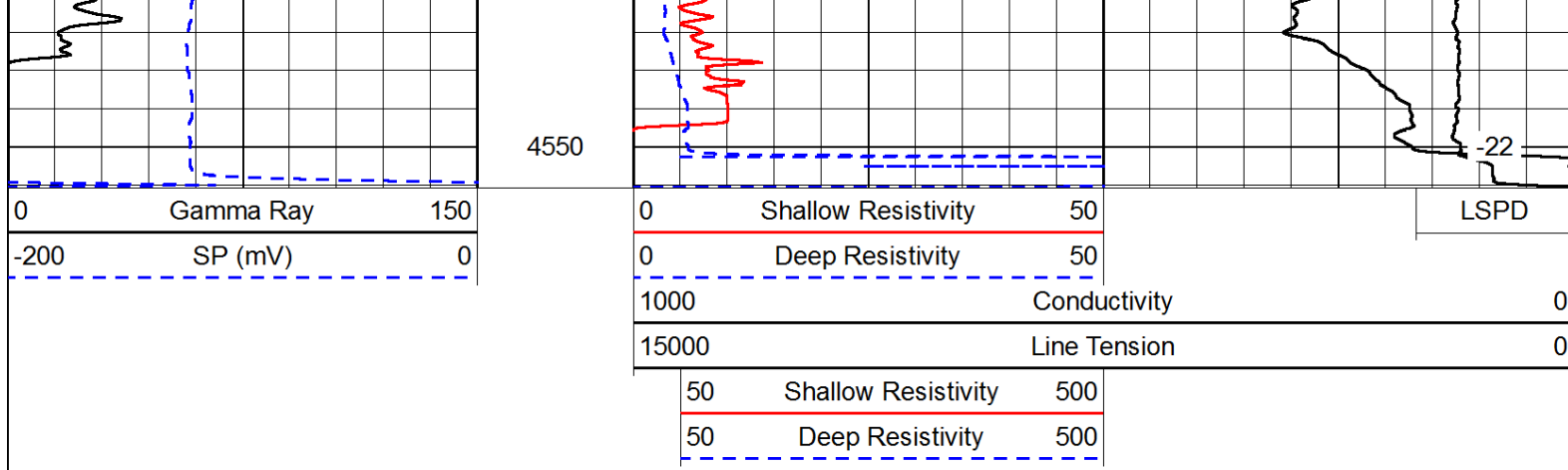




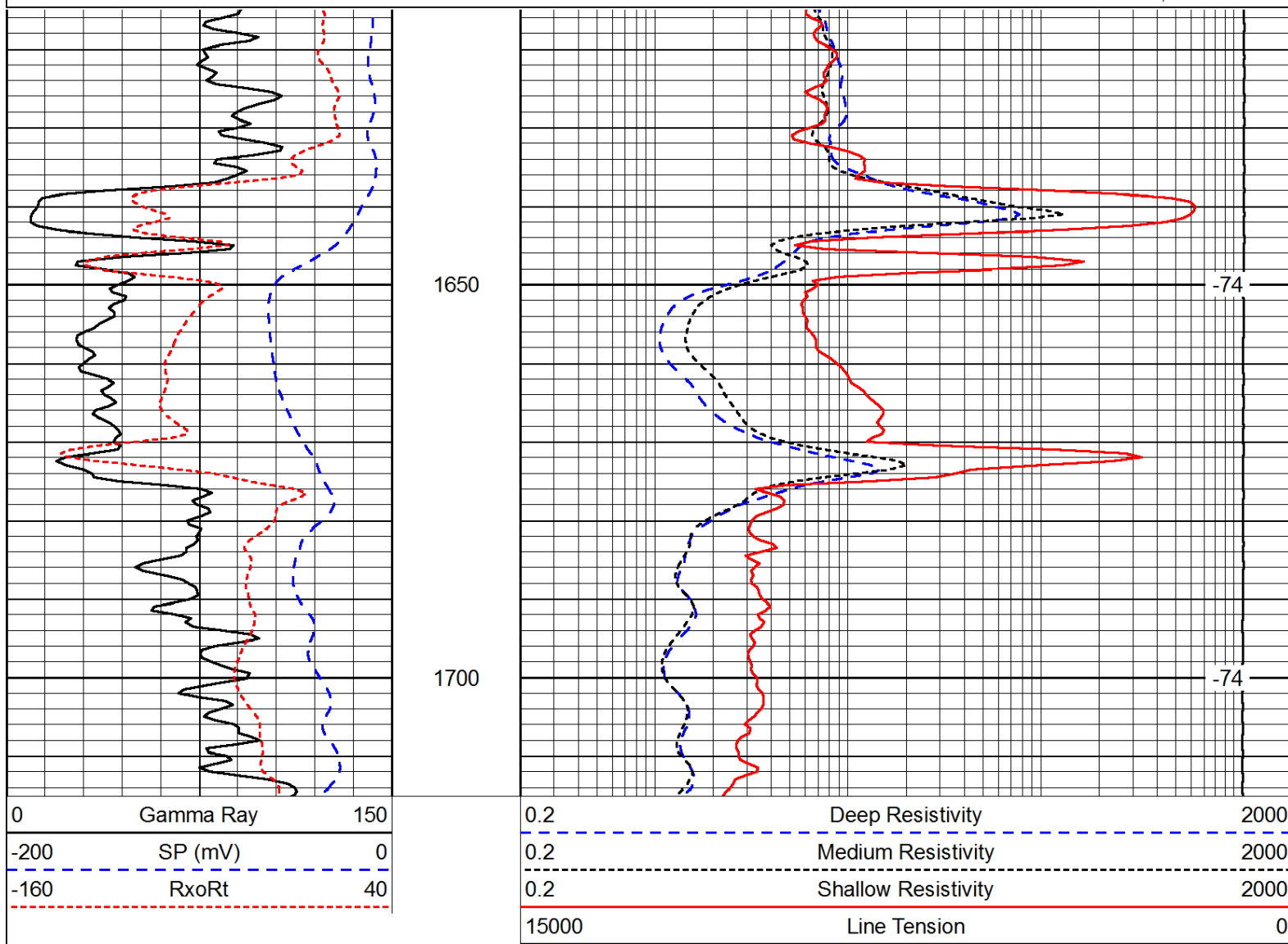
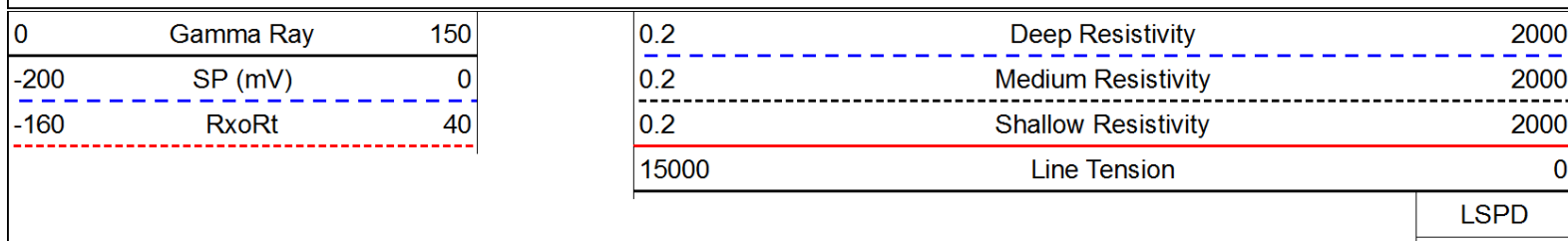








Database File: c:\warrior\data\amwar_rothe #2-25\amwar_040213hd.db
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Dataset Creation: Tue Apr 02 08:38:47 2013
Charted by: Depth in Feet scaled 1:240

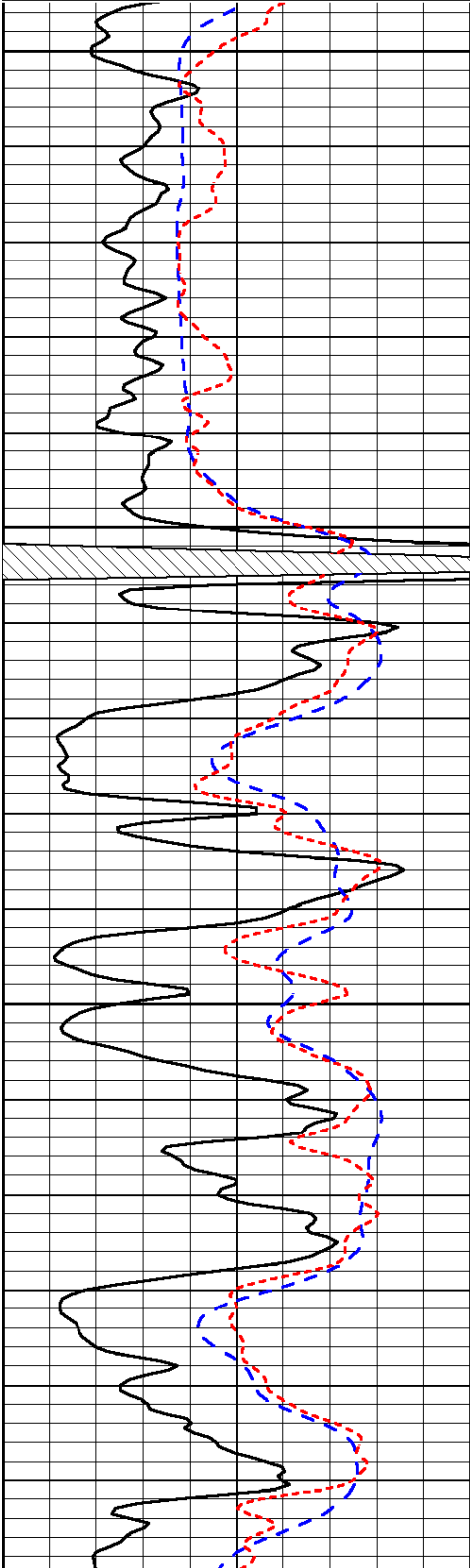


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0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

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

LSPD

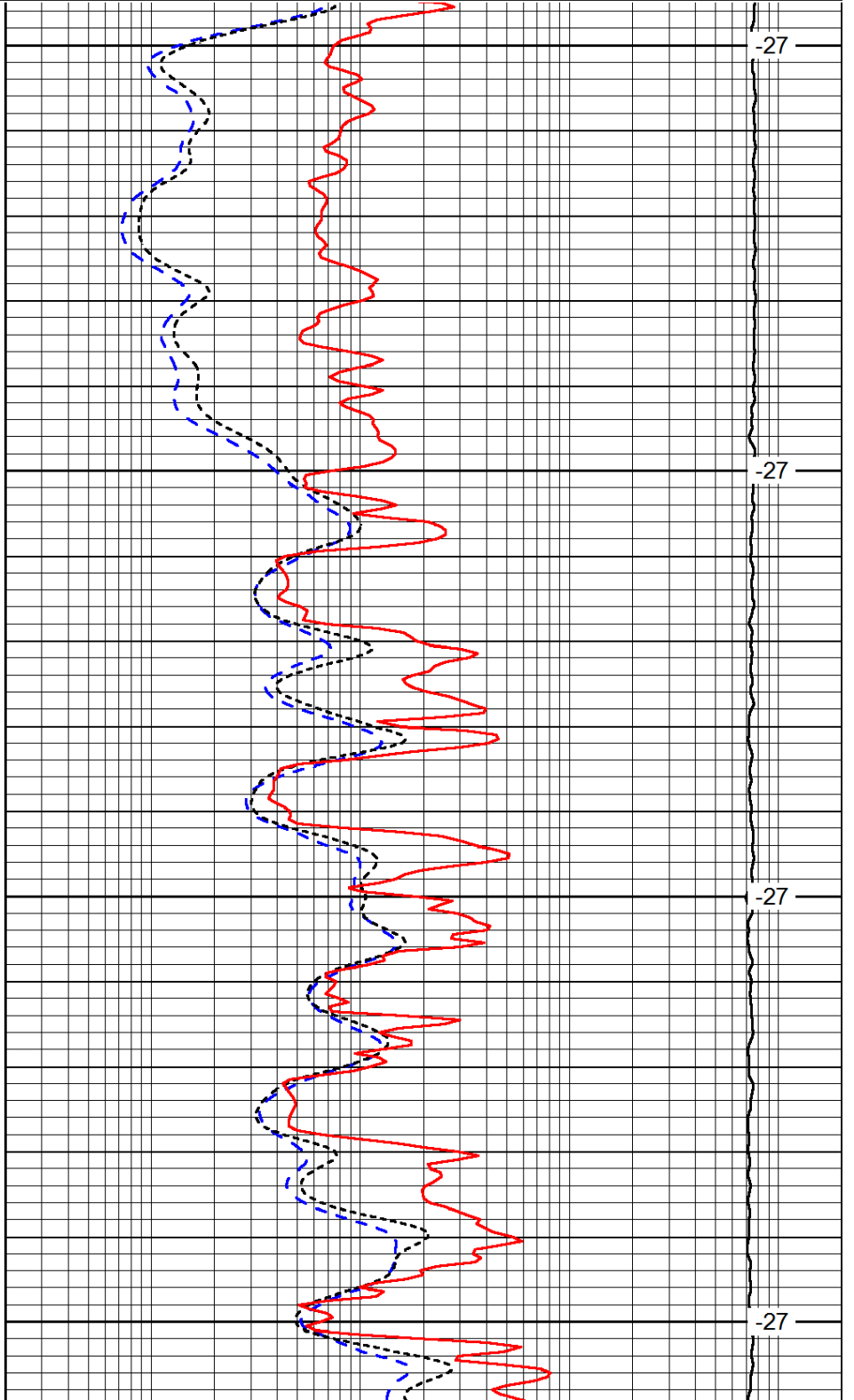


3700

3750

3800

3850

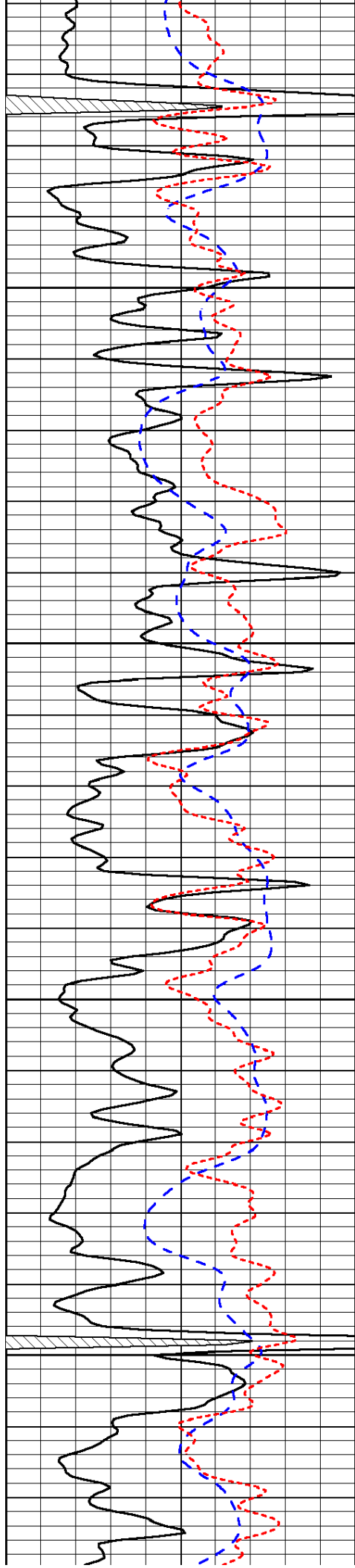


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-27

-27

-27

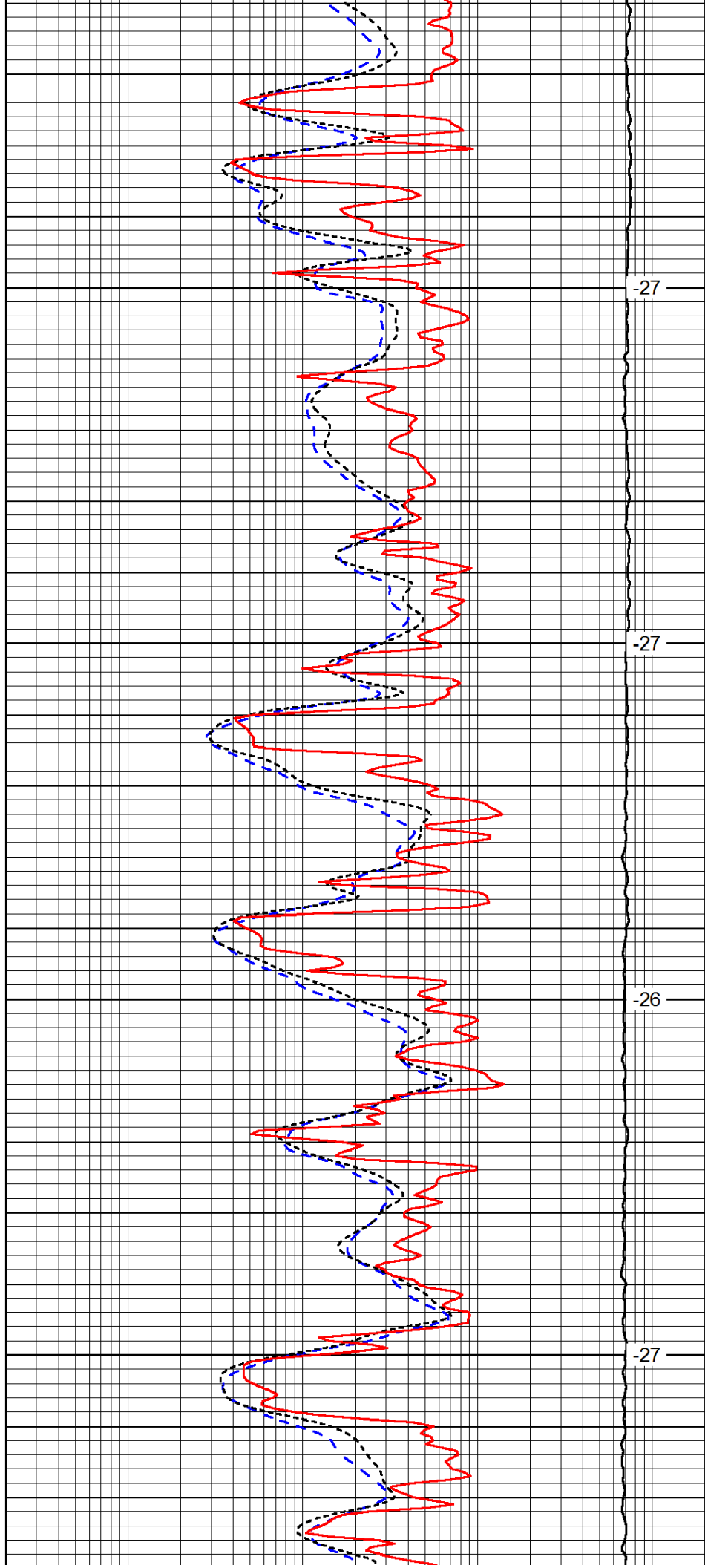


3900

3950

4000

4050

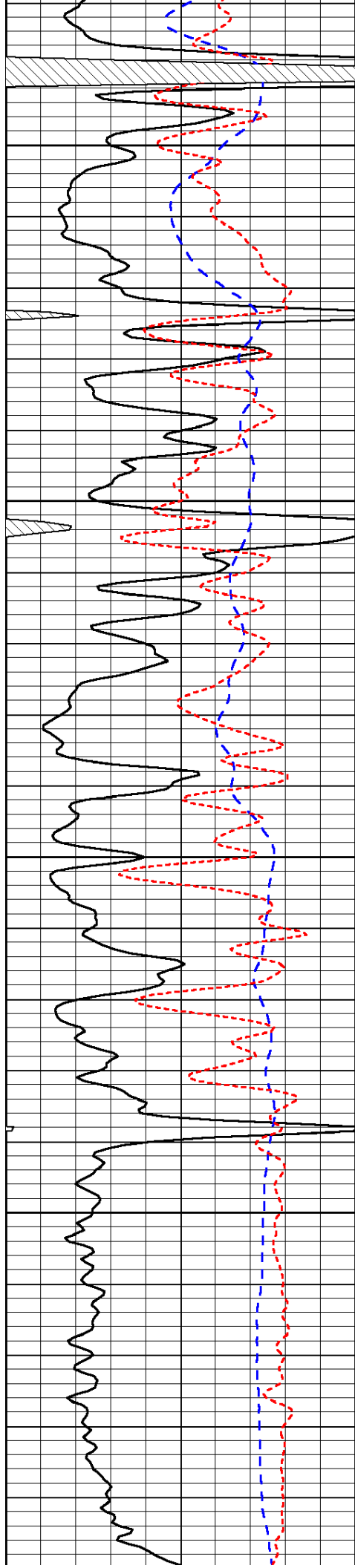


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-27



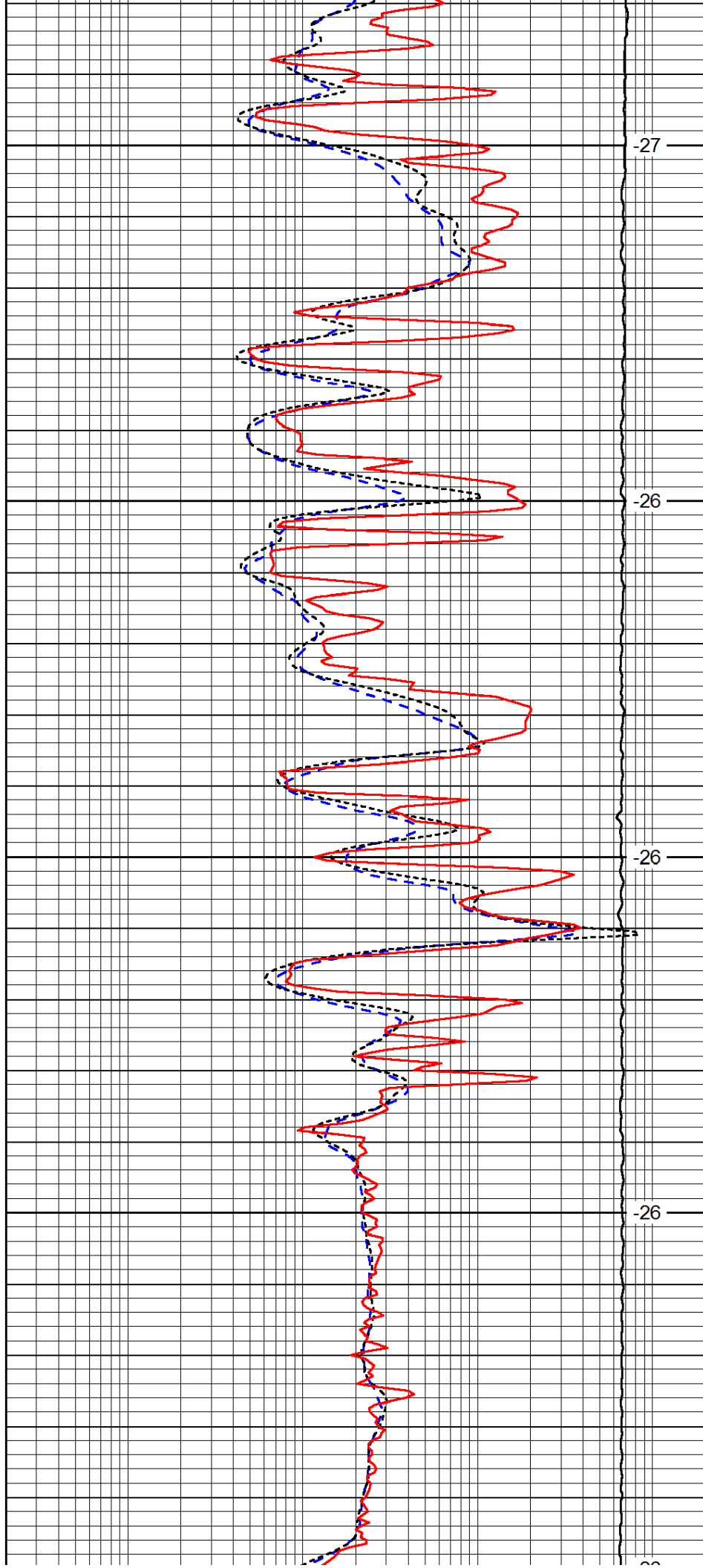
4100

4150

4200

4250

4300



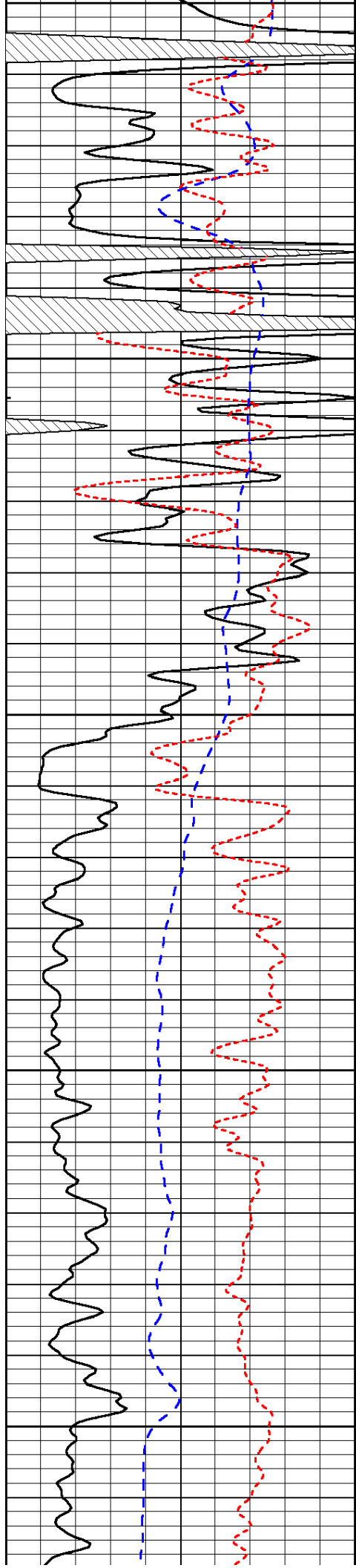
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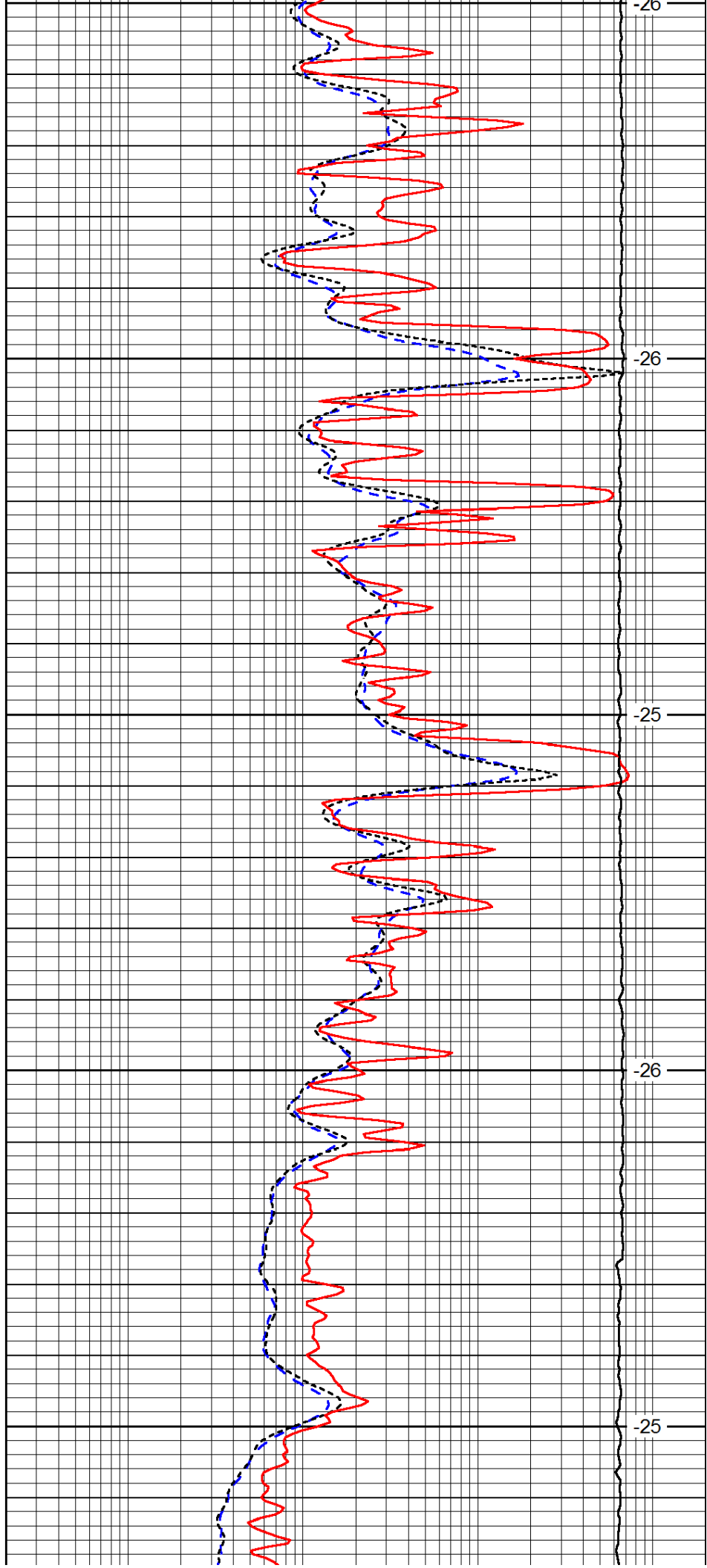
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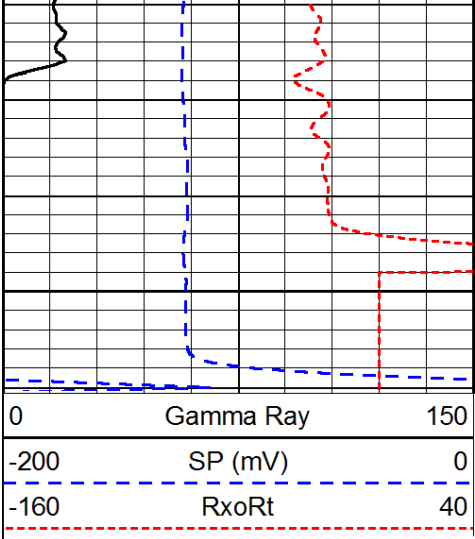
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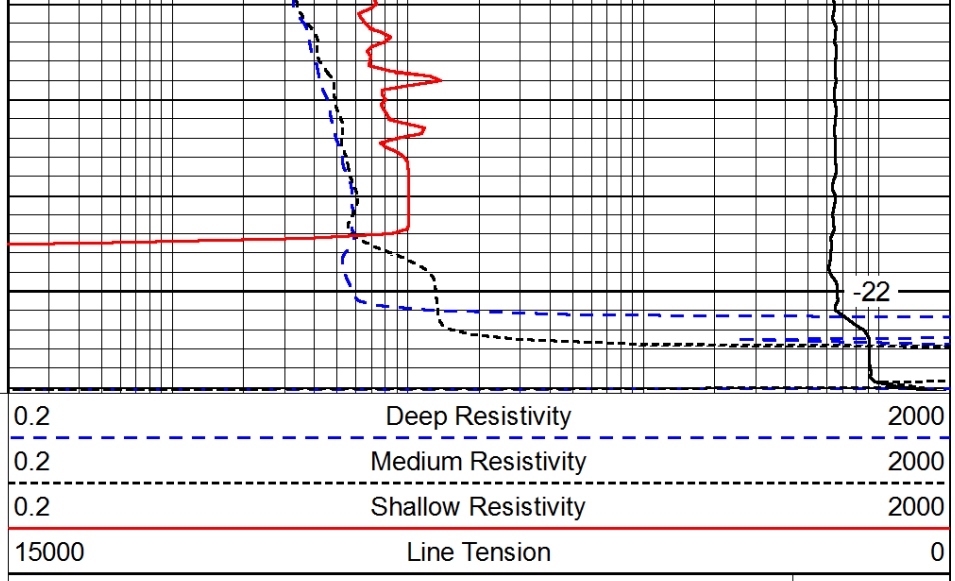
4300
4350
4400
4450
4500



-26
-26
-25
-26
-25



4550



-22

LSPD