



Dual Induction Log

Pioneer Energy Services

API No.	Company American Warrior, Inc.			
	Well Schniepp # 4-31 NE			
	Field DeWald North			
	County	Ness	State	Kansas
	Location	1100' FNL & 1275' FEL		
	Sec: 31	Twp: 18 S	Rge: 21 W	Other Services CNL/CDL
Permanent Datum	Ground Level		Elevation 2121	Elevation
Log Measured From	Kelly Bushing		6 Ft. Above Perm. Datum	K.B. 2127
Drilling Measured From	Kelly Bushing			D.F. 2121
Date	9/3/2013			
Run Number	One			
Depth Driller	4242			
Depth Logger	4240			
Bottom Logged Interval	4239			
Top Log Interval	1345			
Casing Driller	8.625 @ 1383			
Casing Logger	1383			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity, ppm CL	8000			
Density / Viscosity	9.3 53			
pH / Fluid Loss	10.5 9.2			
Source of Sample	Flowline			
Rm @ Meas. Temp	0.28 @ 68			
Rmf @ Meas. Temp	0.21 @ 68			
Rmc @ Meas. Temp	0.37 @ 68			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.16 @ 120			
Operating Rig Time	4 Hours			
Max Rec. Temp. F	120			
Equipment Number	108			
Location	Hays			
Recorded By	Y. Ruiz			
Witnessed By	Jason Alm			

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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.

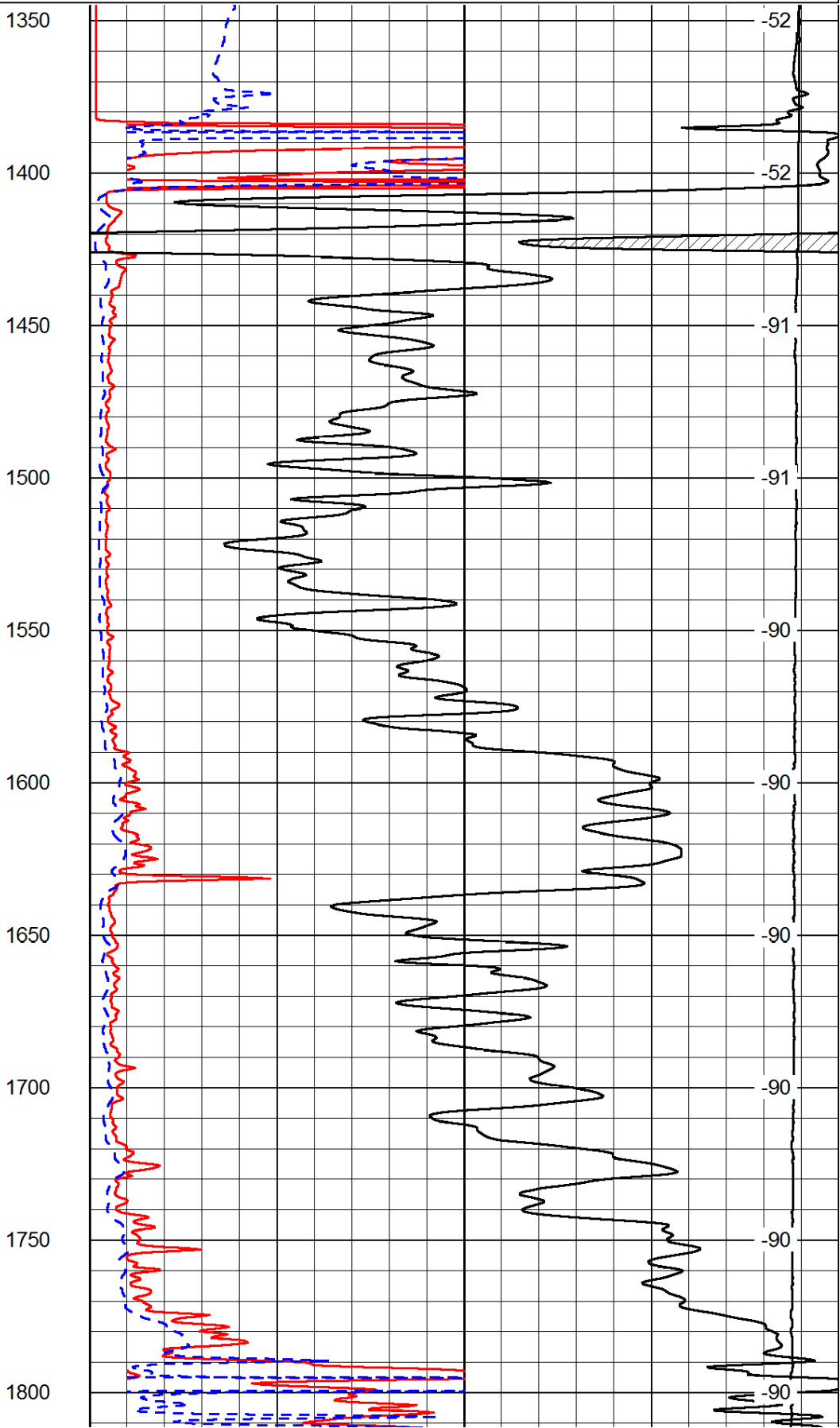
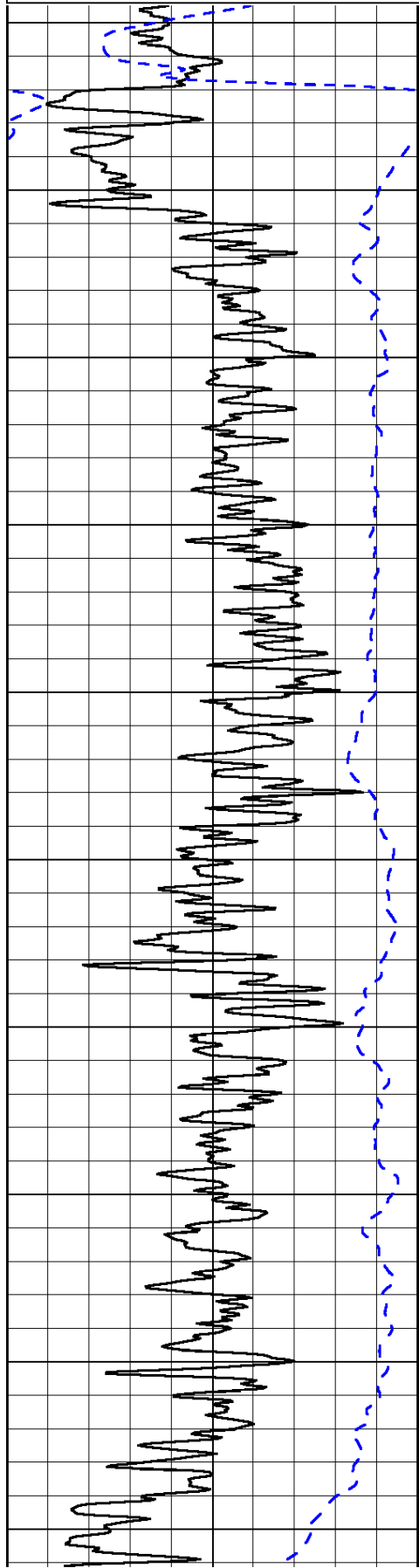
Comments

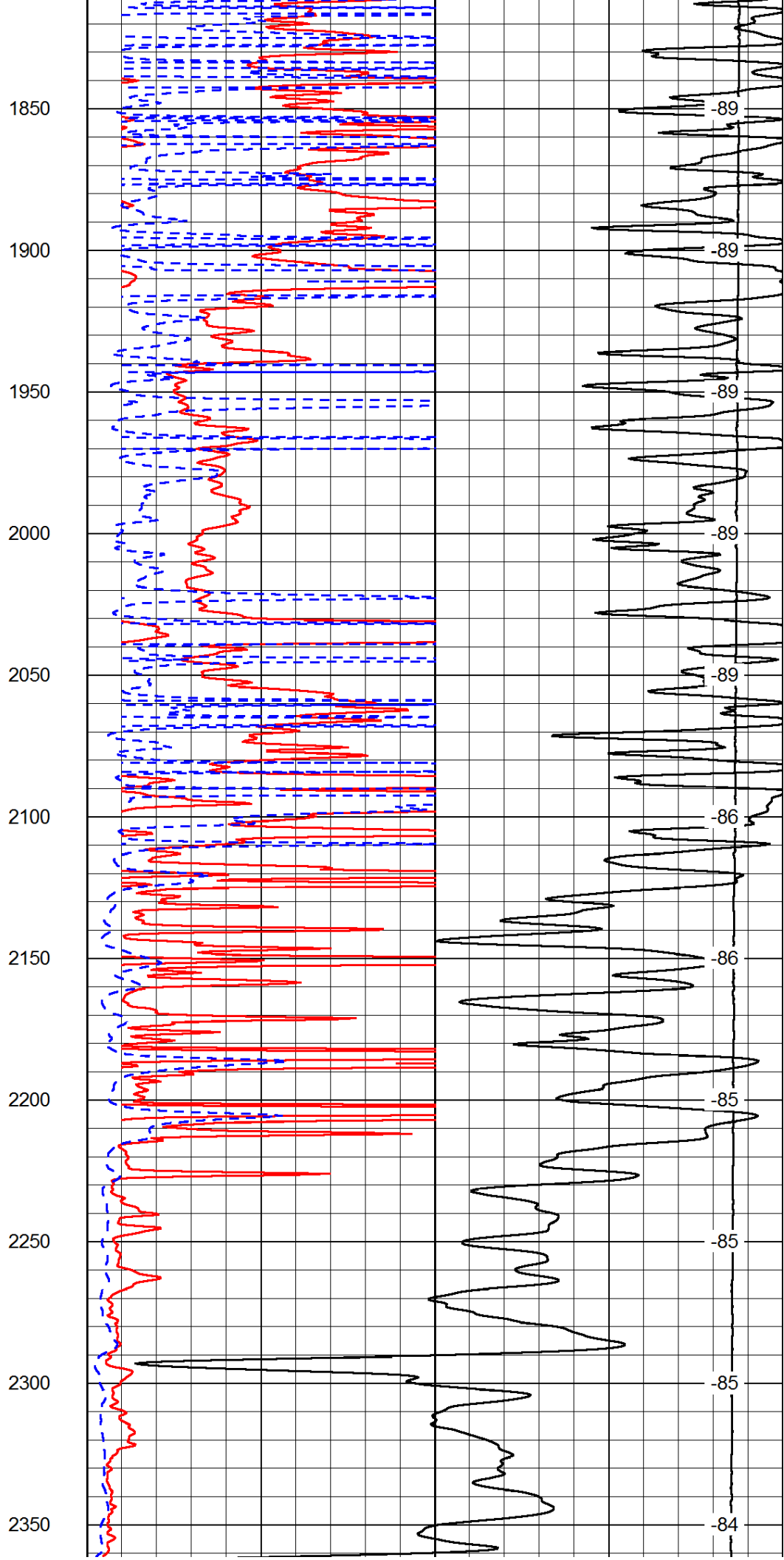
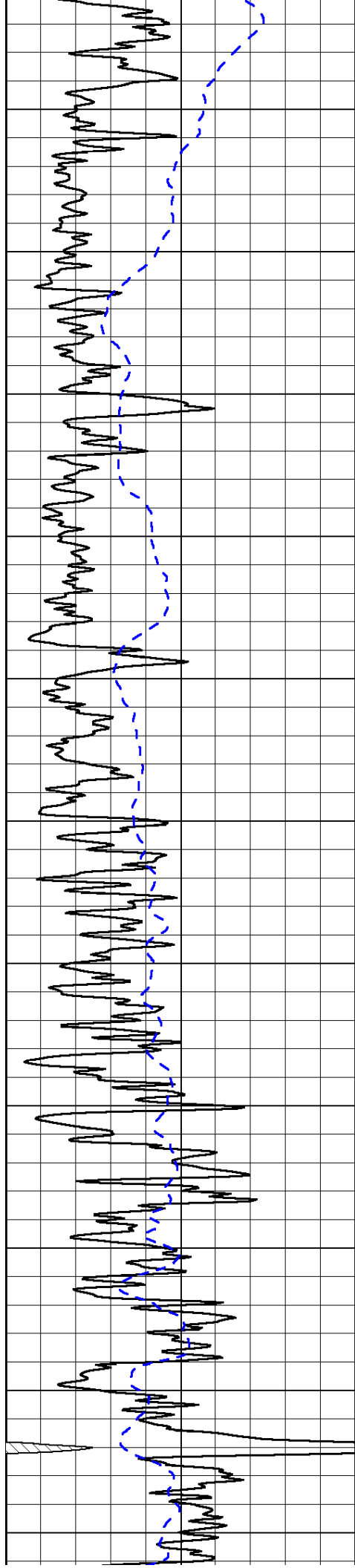
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Bazine,
1/2 East to EE Rd, 1/8 South,
West into

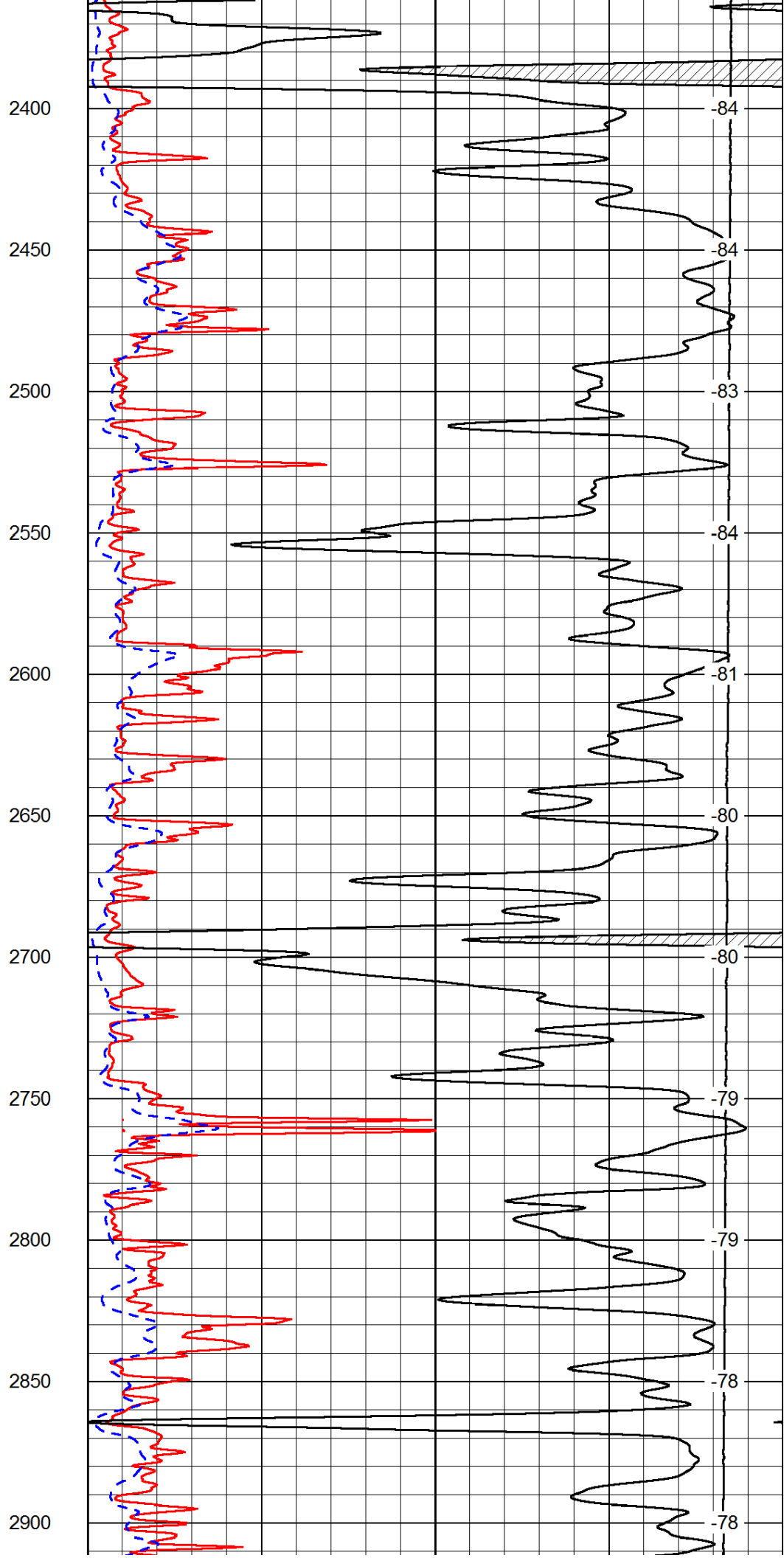
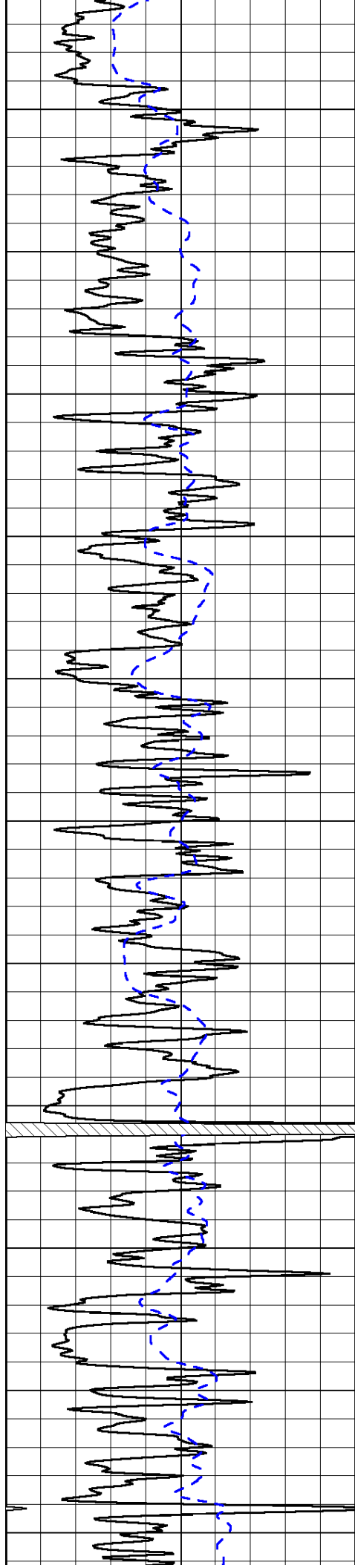
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Presentation Format: dil2in
Dataset Creation: Tue Sep 03 10:14:45 2013
Charted by: Depth in Feet scaled 1:600

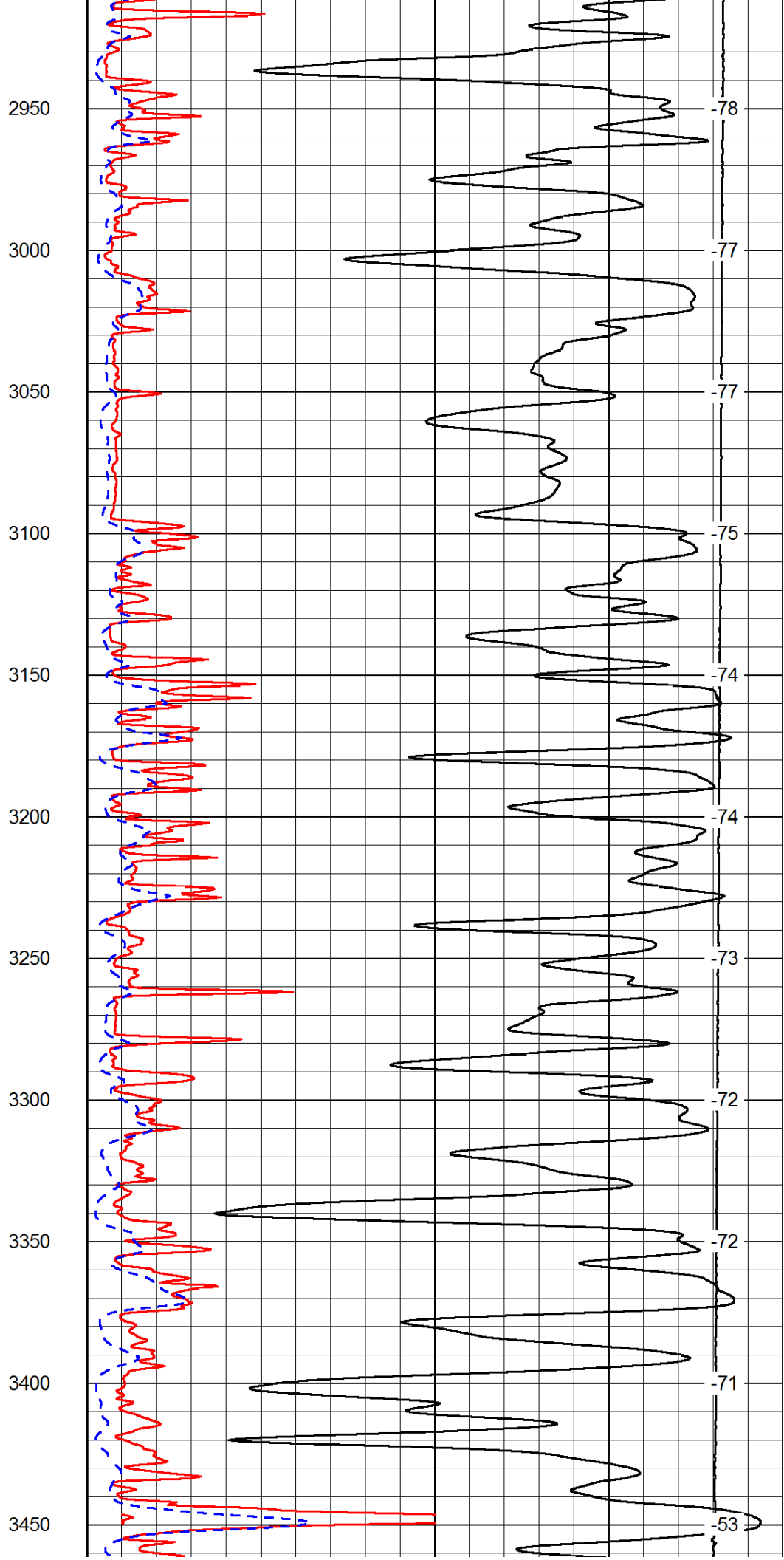
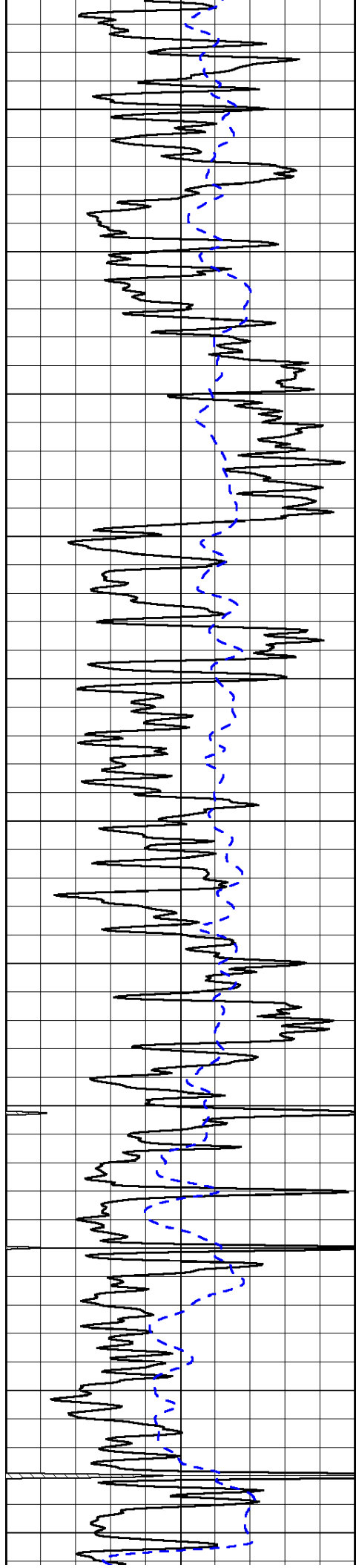
0	Gamma Ray	150
-200	SP (mV)	0

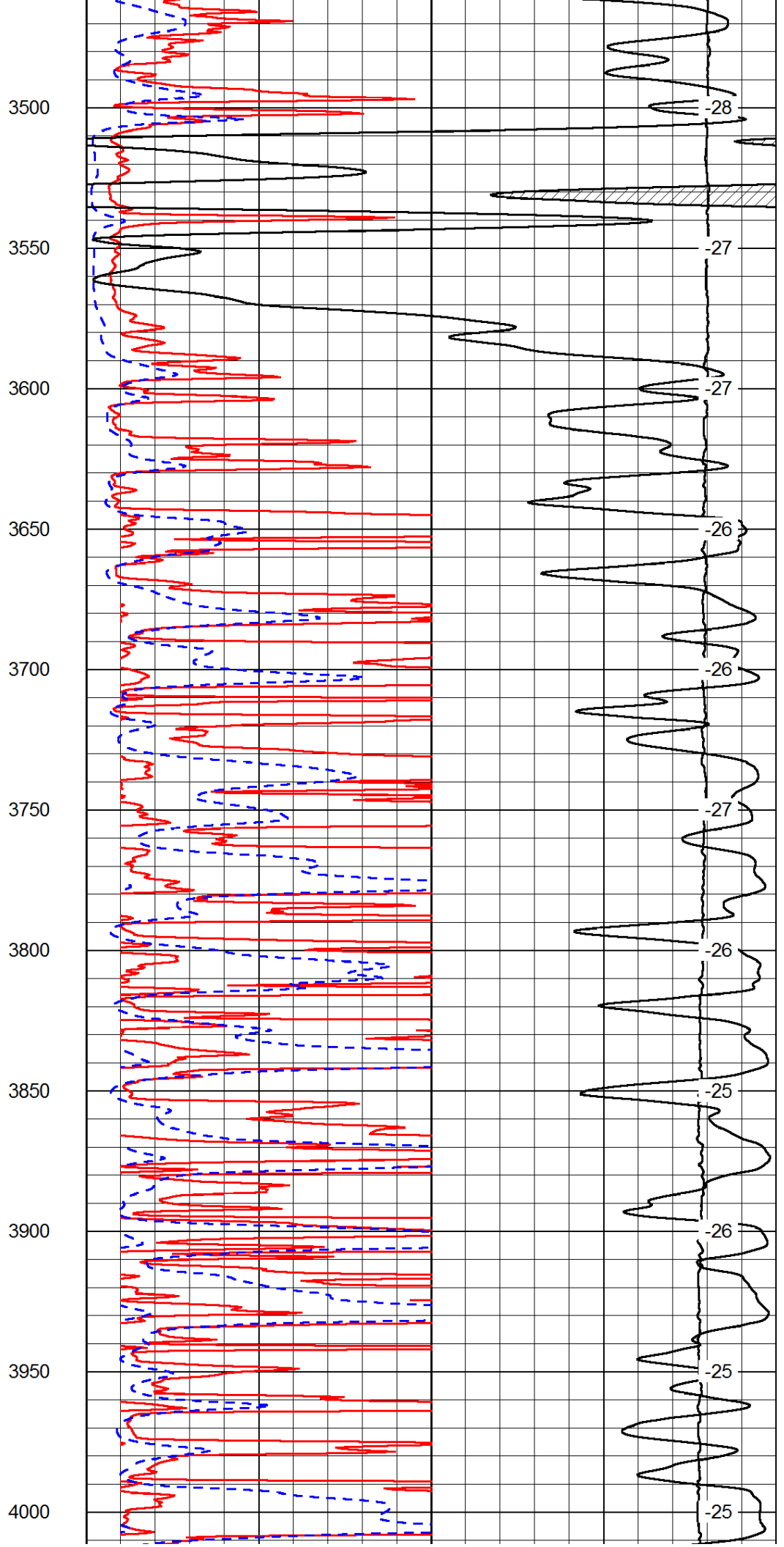
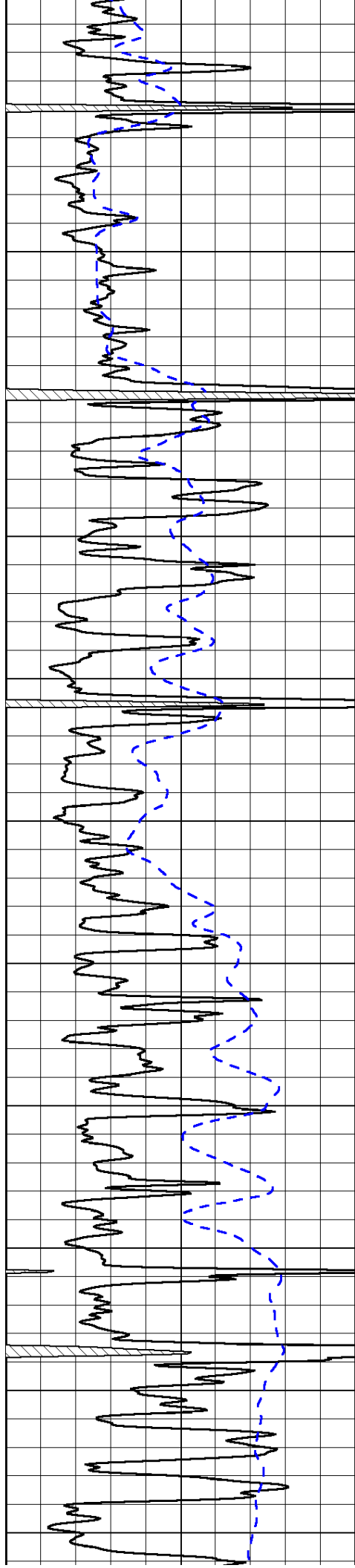
0	Shallow Resistivity	50	LSPD	
0	Deep Resistivity	50		
1000	Conductivity		0	
15000			Line Tension	0
50	Shallow Resistivity	500		
50	Deep Resistivity	500		

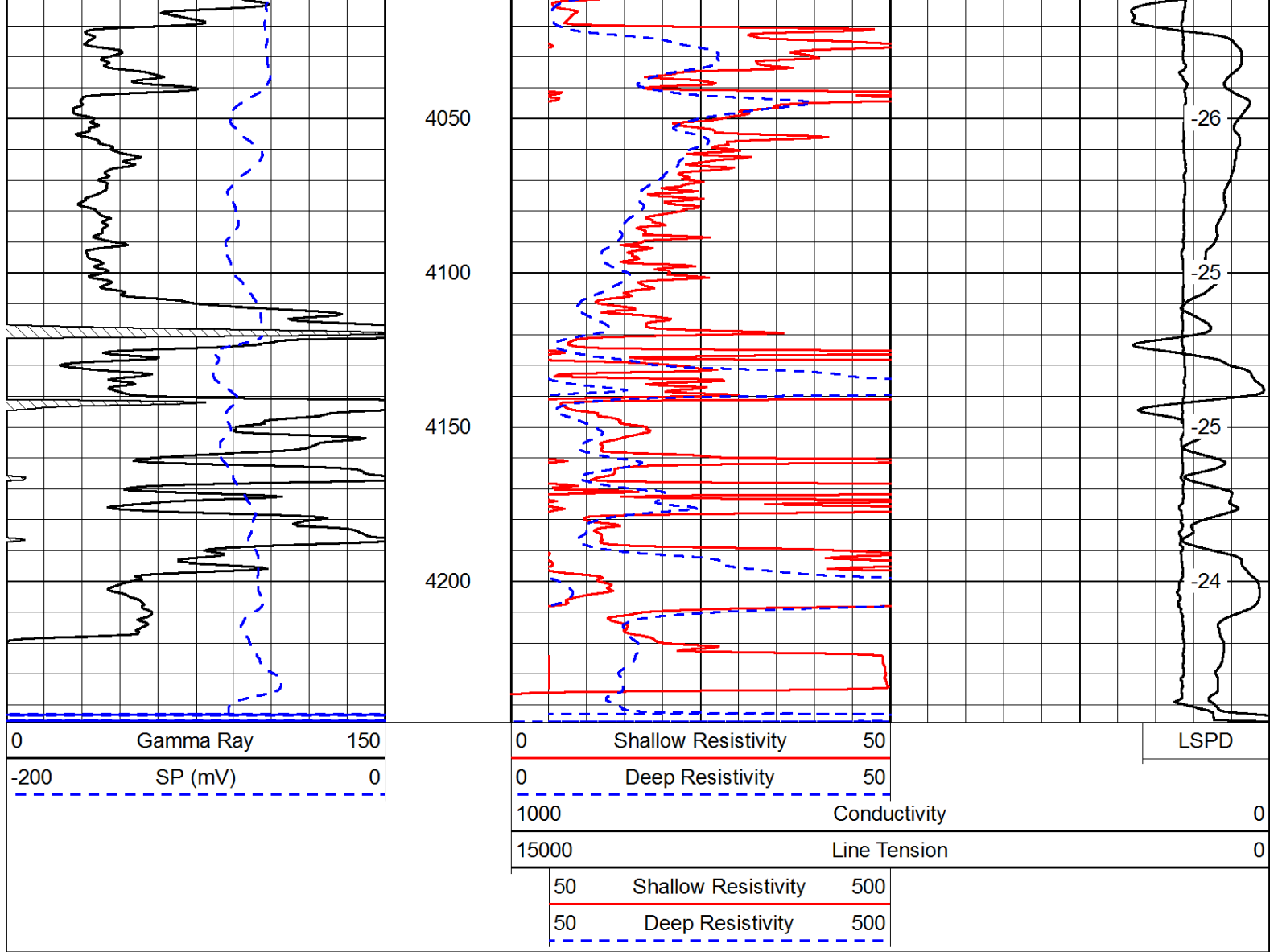




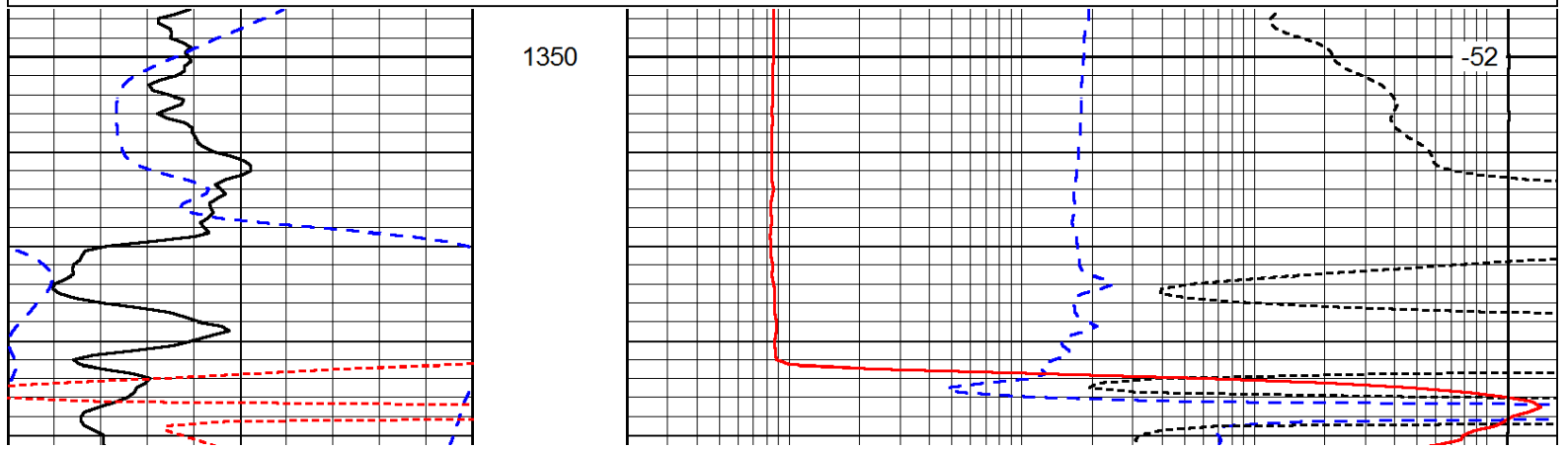
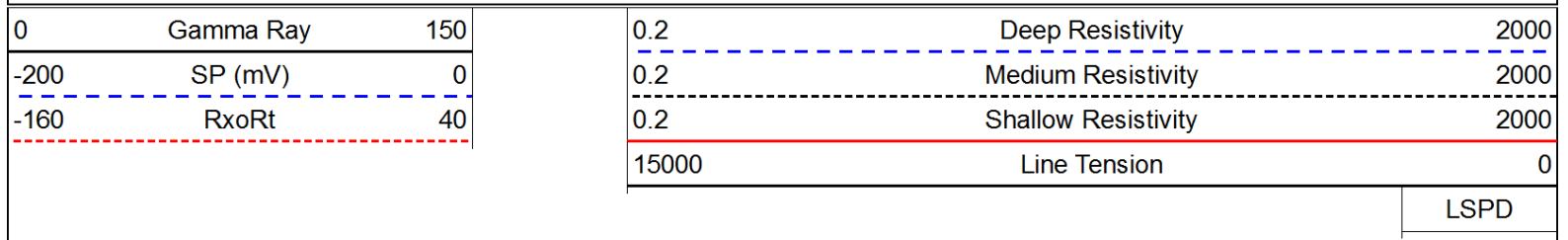


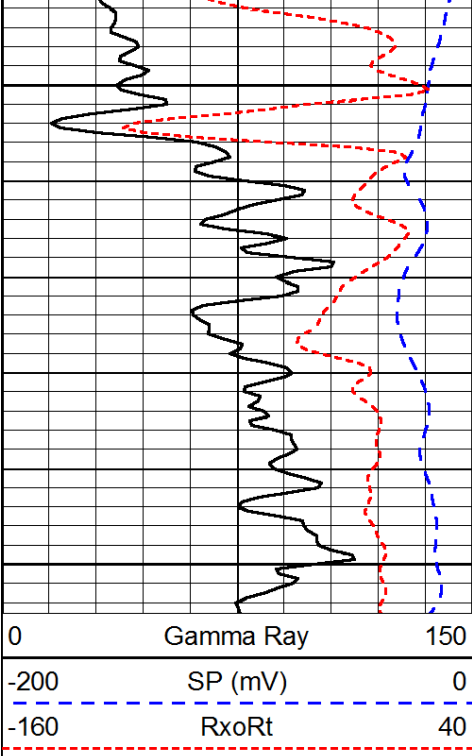






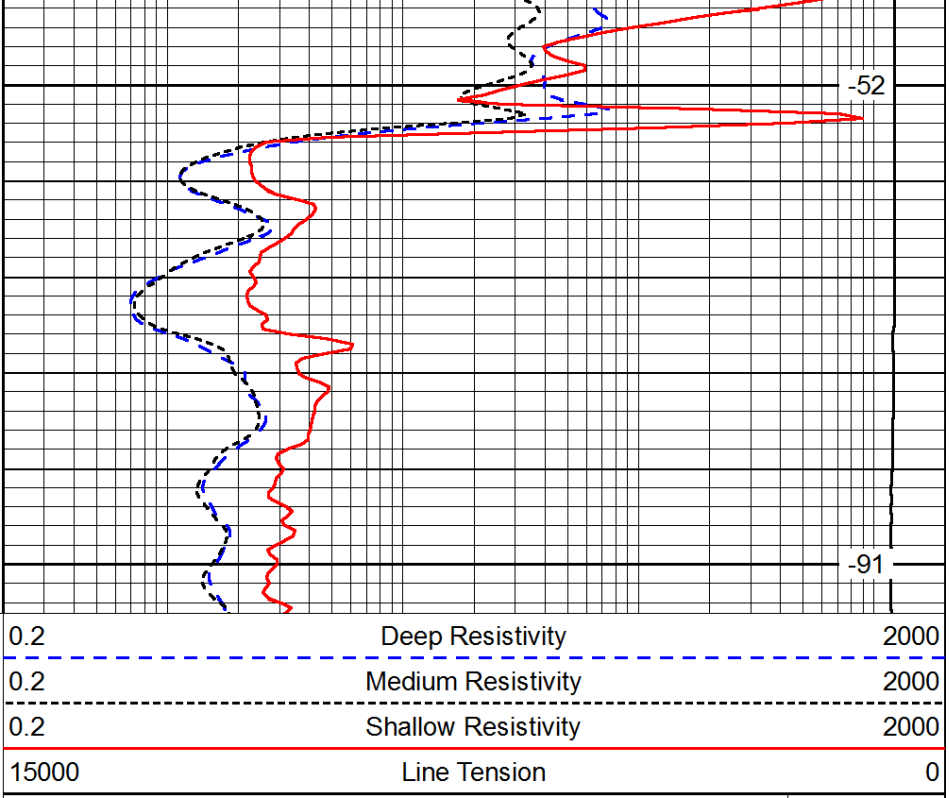
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 Presentation Format: dil
 Dataset Creation: Tue Sep 03 10:14:45 2013
 Charted by: Depth in Feet scaled 1:240





1400

1450

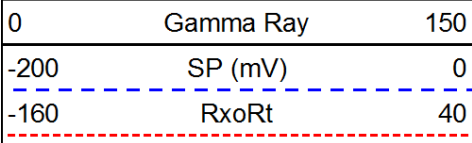


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-91

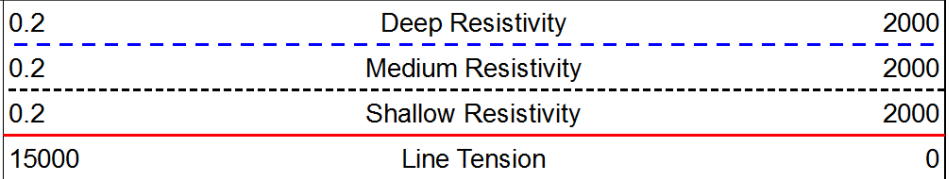
LSPD

Database File: c:\warrior\data\amwar_schniepp # 4-31 ne\american_warrior090313.db
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Dataset Creation: Tue Sep 03 10:14:45 2013
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3500

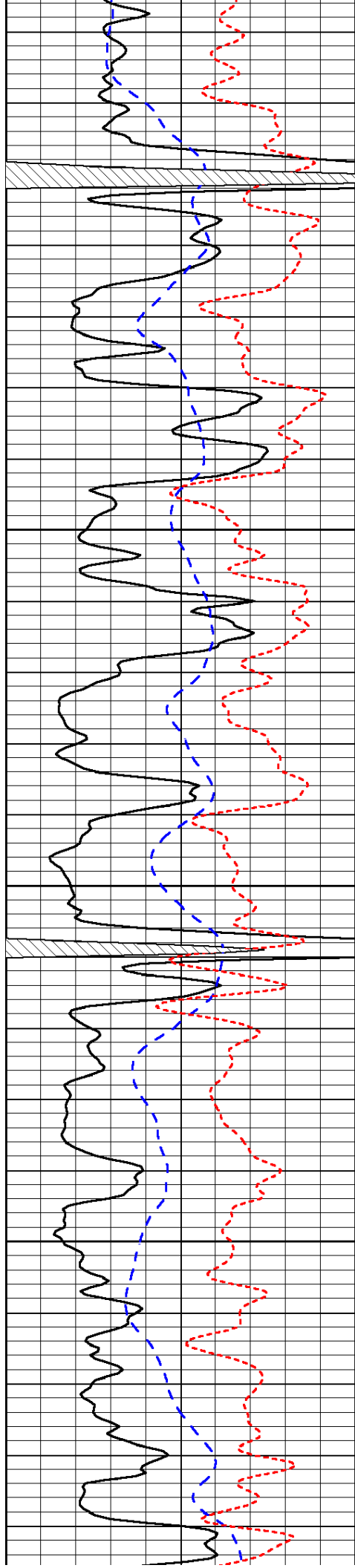
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LSPD

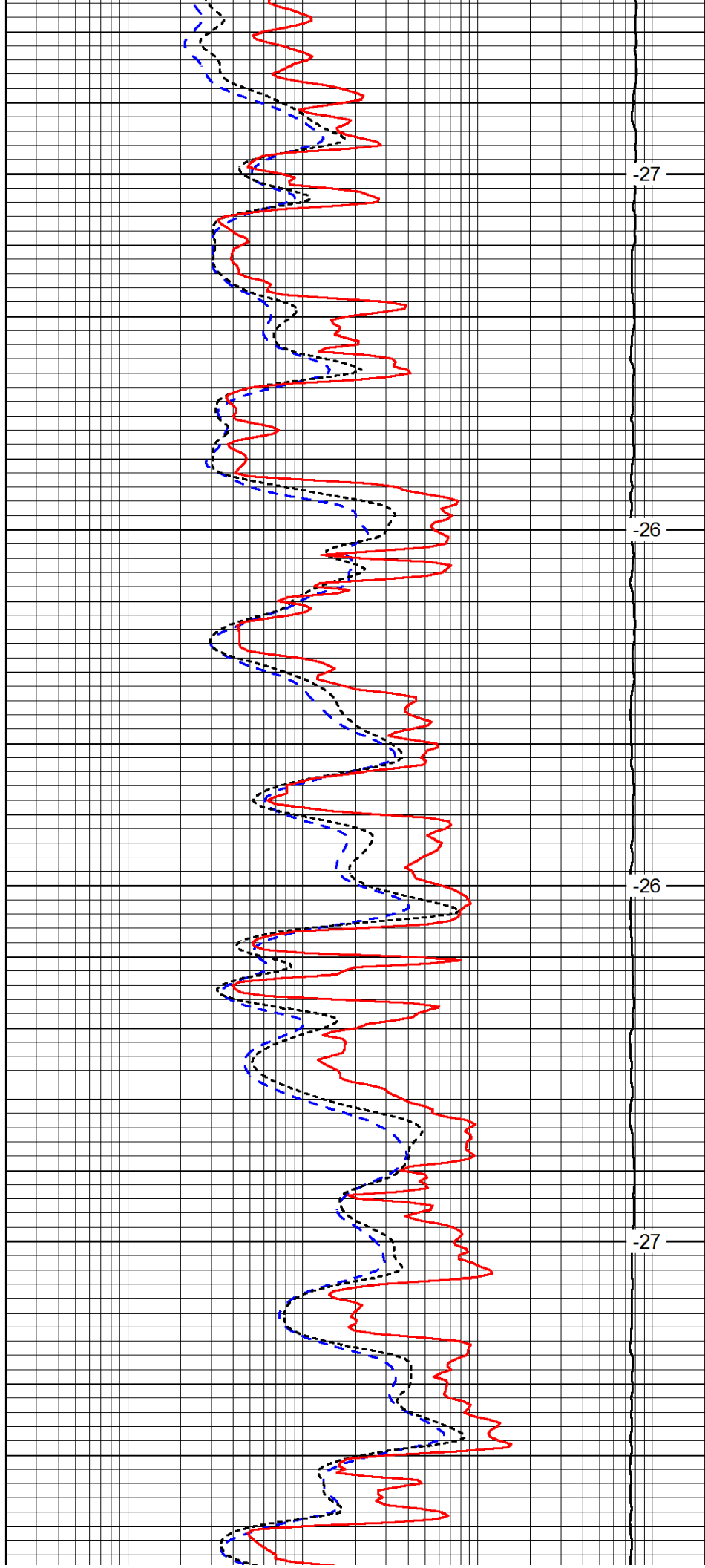


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3650

3700

3750

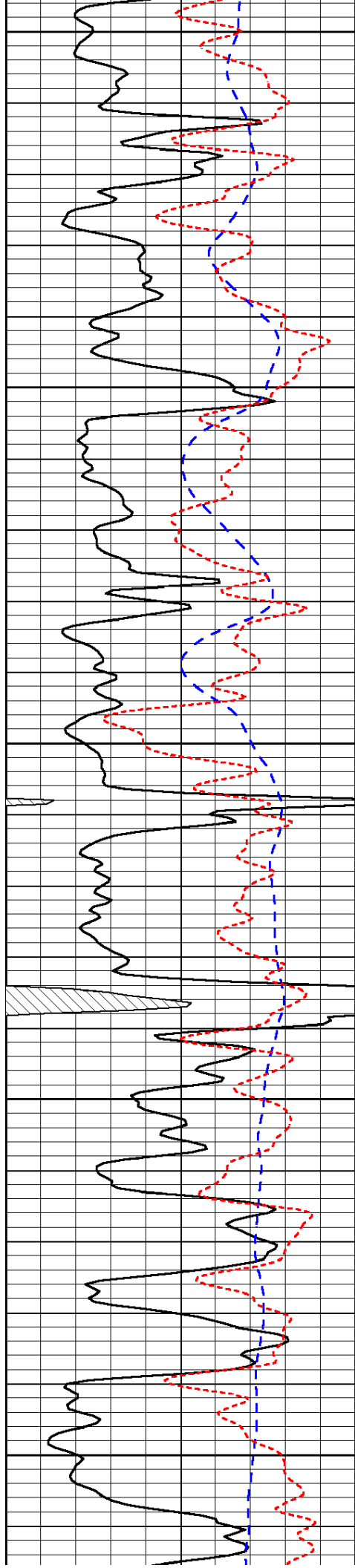


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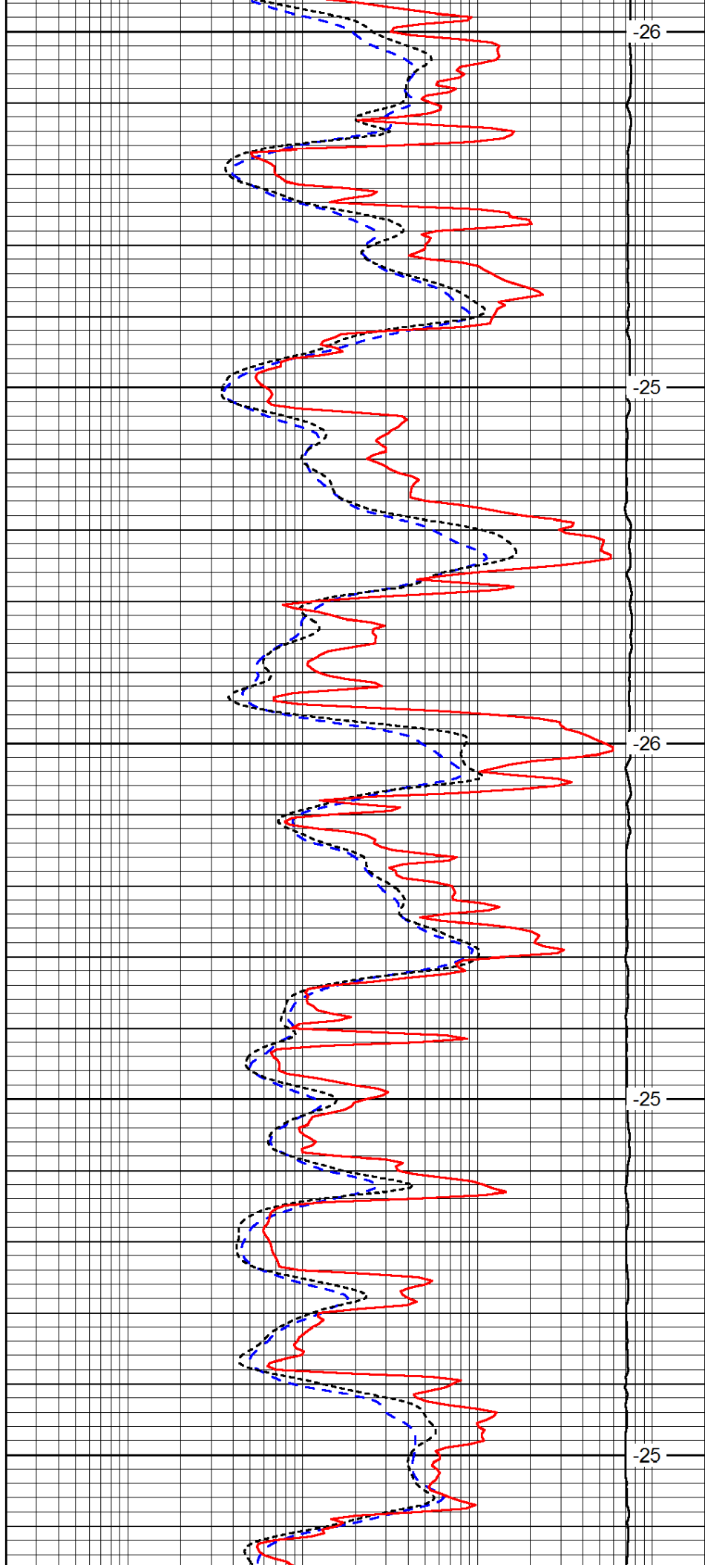
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3850

3900

3950

4000



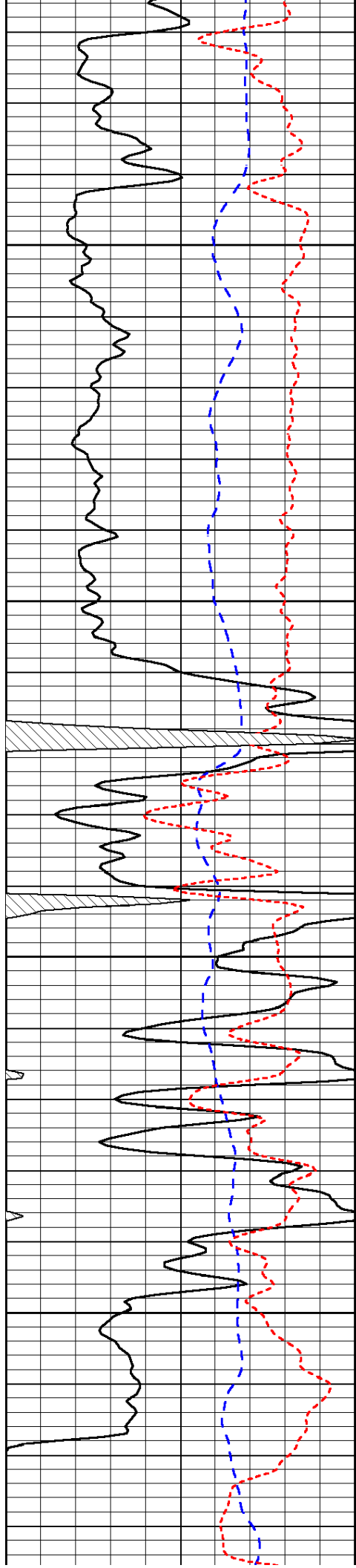
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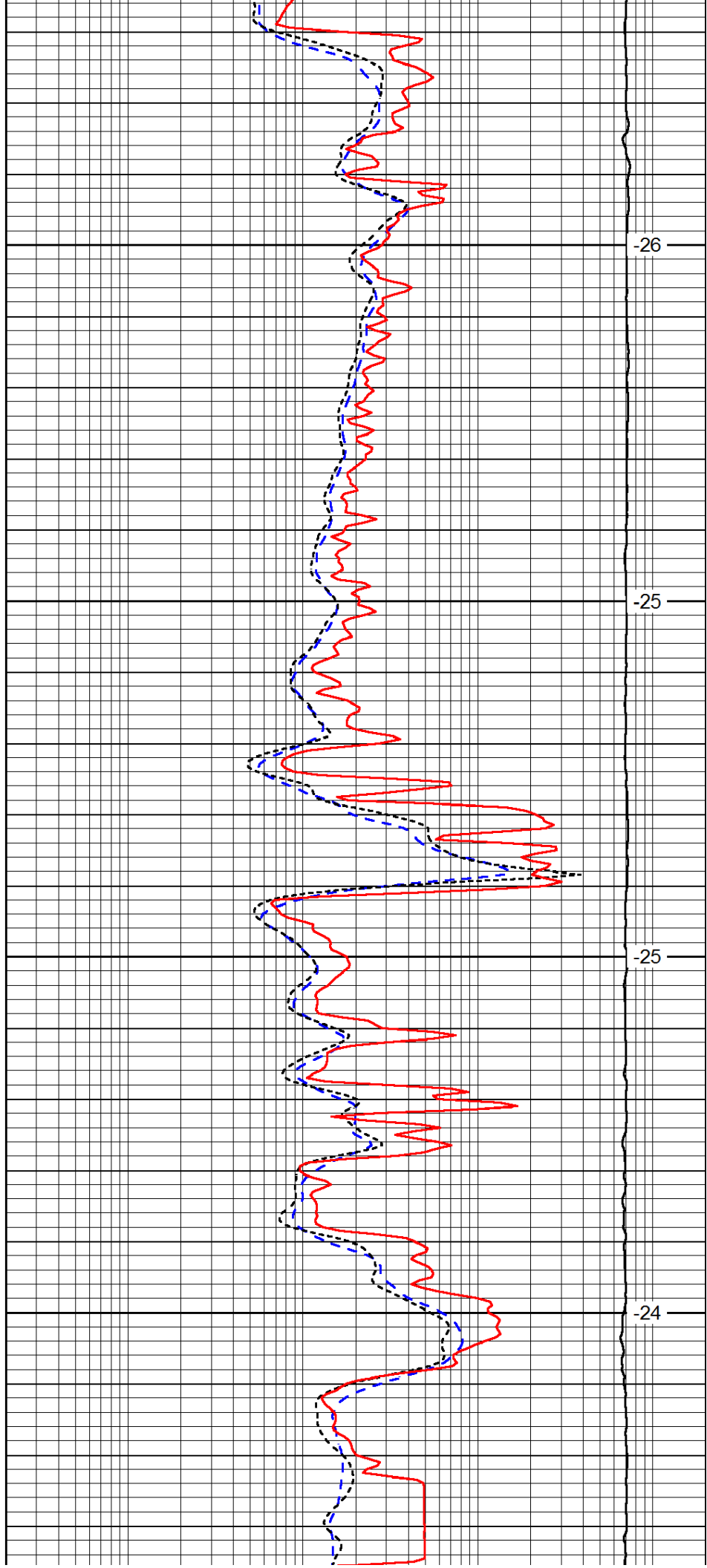


4050

4100

4150

4200



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