



Dual Induction Log

Pioneer Energy Services

API No.	Company Larson Engineering, Inc.				
	Well Lora #1-32				
	Field Wildcat				
	County	Lane	State	Kansas	
15-101-22535-00-00	Location 330' FSL & 865' FEL			Other Services CNL/CDL MEL	
	Sec: 32 Twp: 19S Rge: 29W			Elevation K.B. 2872 D.F. 2865 G.L. 2865	
Permanent Datum	Ground Level	Elevation 2865			
Log Measured From	Kelly Bushing	7	Ft. Above Perm. Datum		
Drilling Measured From	Kelly Bushing				
Date	9/15/2014				
Run Number	One				
Depth Driller	4675				
Depth Logger	4675				
Bottom Logged Interval	4674				
Top Log Interval	250				
Casing Driller	8.625 @ 263				
Casing Logger	260				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	3700				
Density / Viscosity	9.1	54			
pH / Fluid Loss	10.5	8.0			
Source of Sample	Flowline				
Rm @ Meas. Temp	0.76 @ 57				
Rmf @ Meas. Temp	0.57 @ 57				
Rmc @ Meas. Temp	1.03 @ 57				
Source of Rmf / Rmc	Charts				
Rm @ BHT	0.35 @ 123				
Operating Rig Time	4 Hours				
Max Rec. Temp. F	123				
Equipment Number	91				
Location	Hays				
Recorded By	D. Schmidt				
Witnessed By	Vern Schrag				

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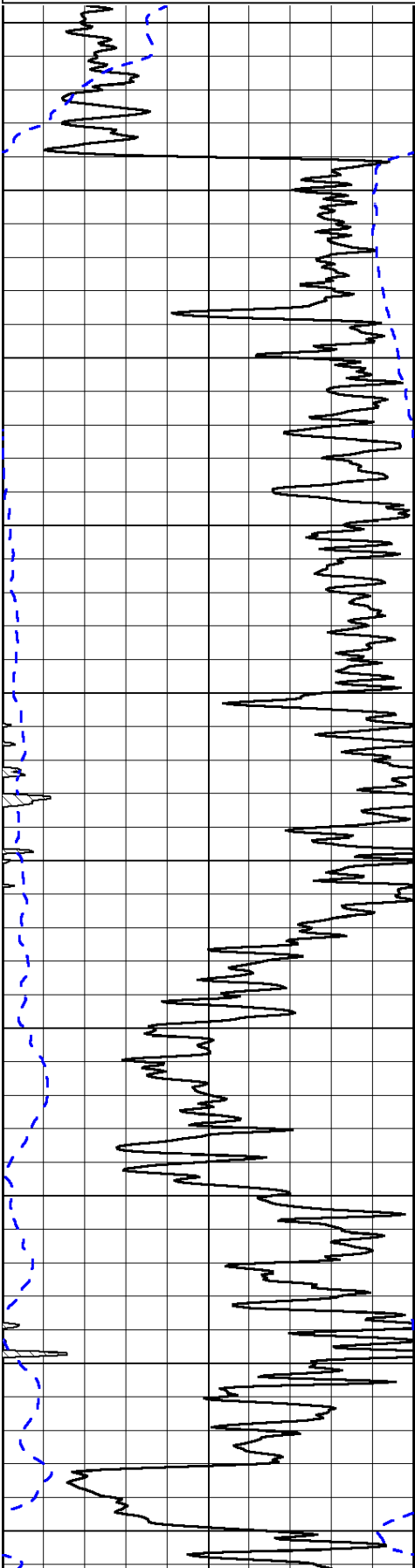
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

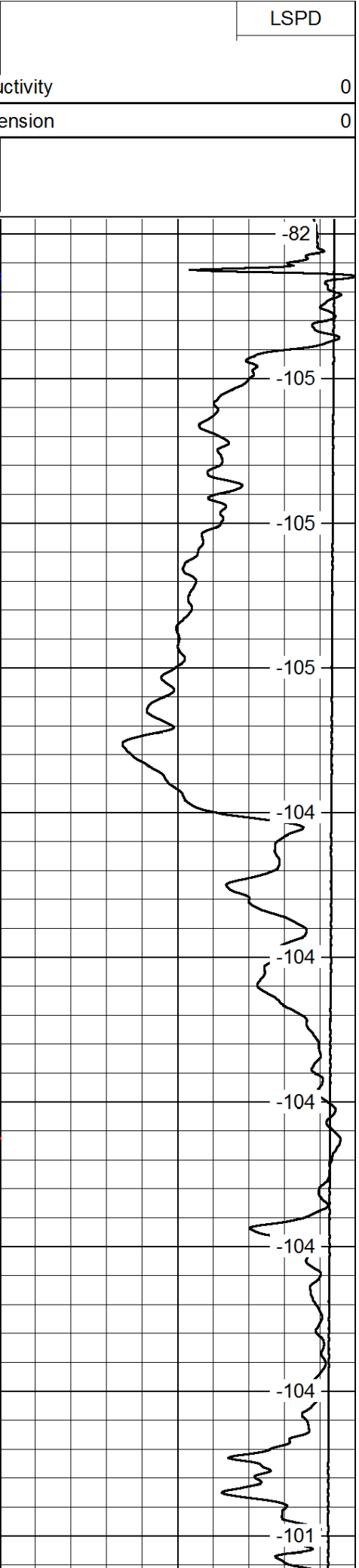
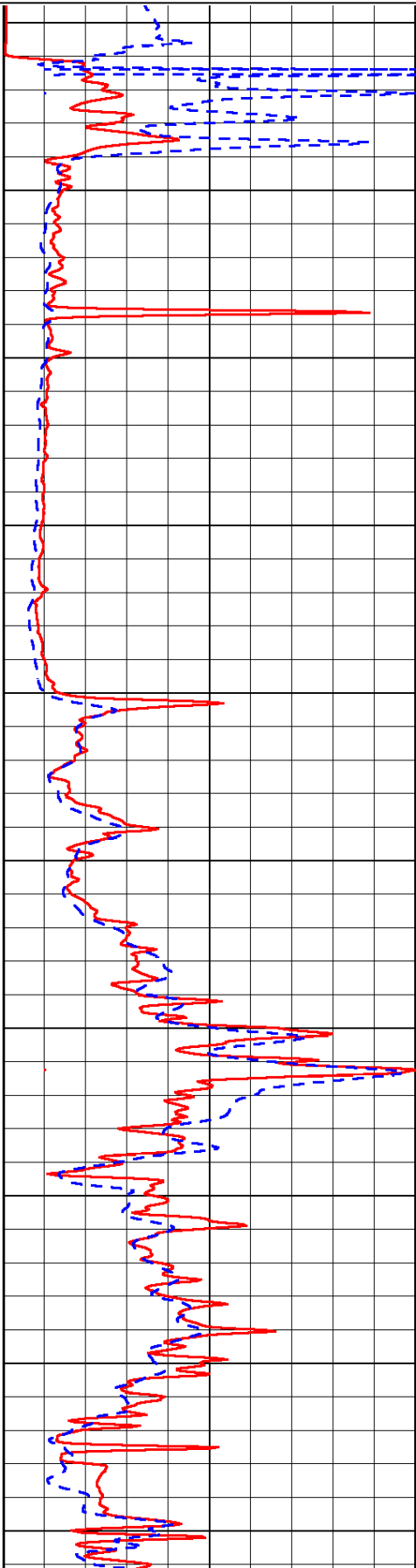
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Dighton,
9 South to Rd 60, 4 1/4 West,
North into

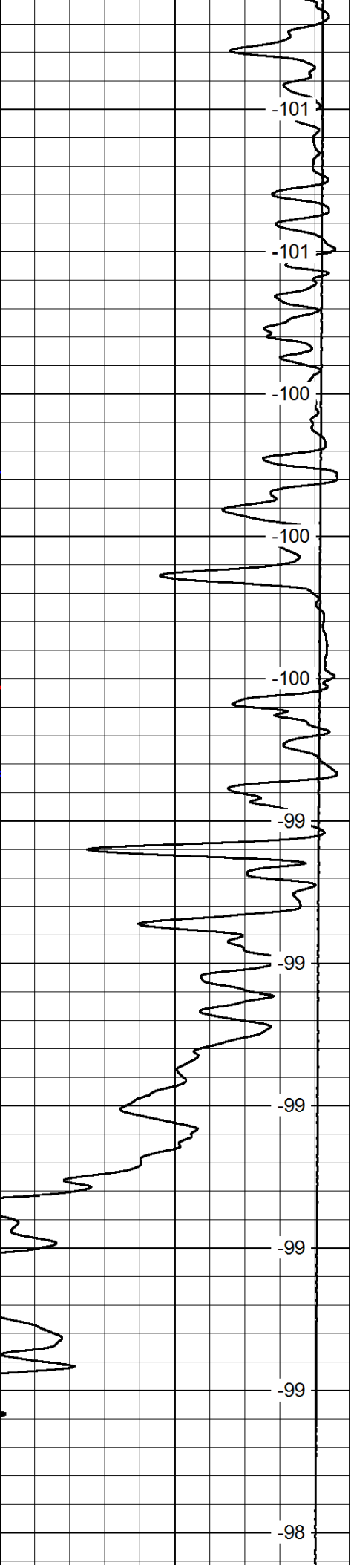
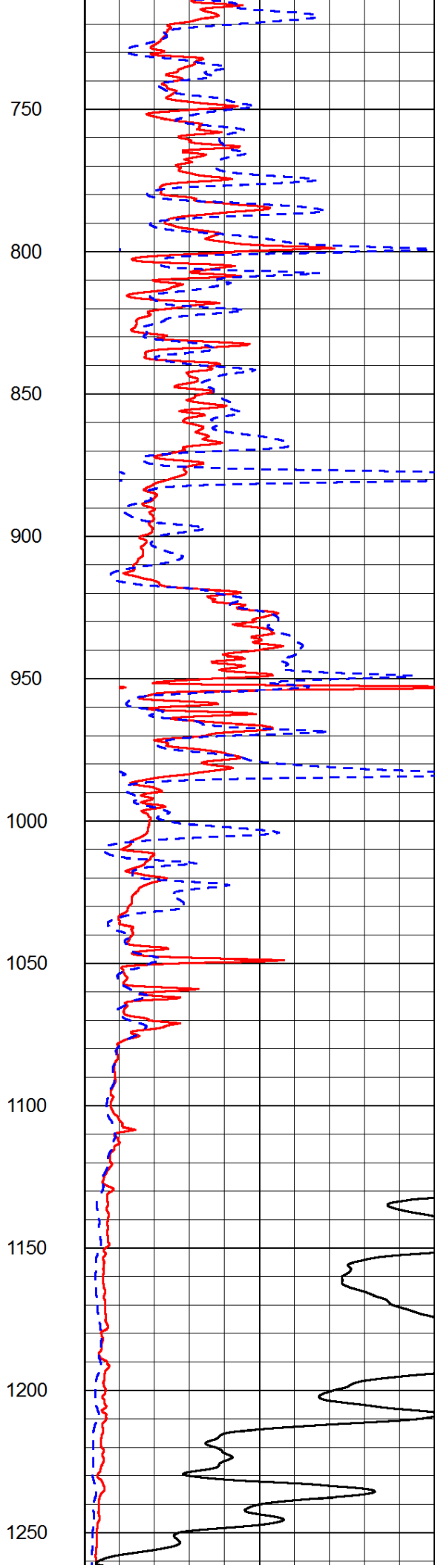
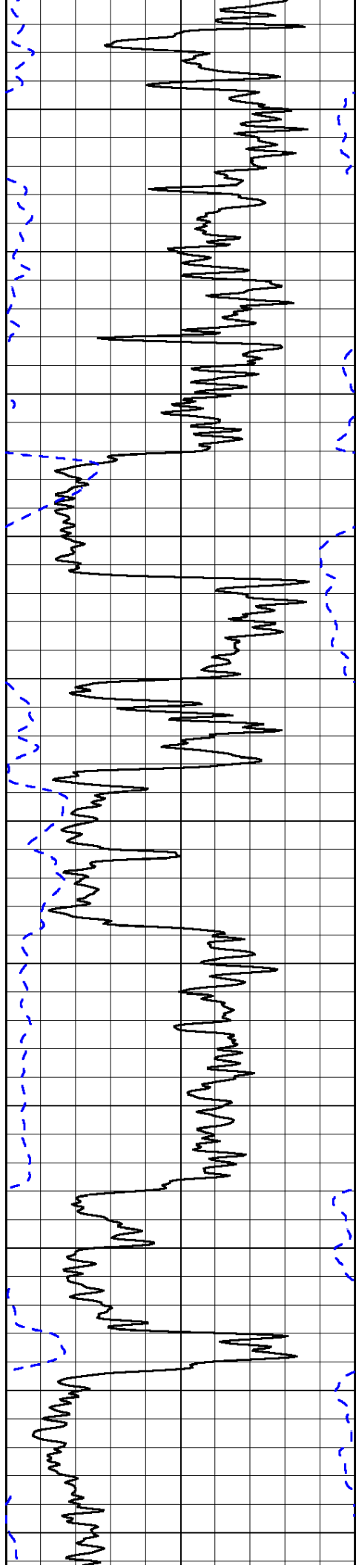
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Presentation Format: dil2in
Dataset Creation: Mon Sep 15 09:32:30 2014
Charted by: Depth in Feet scaled 1:600

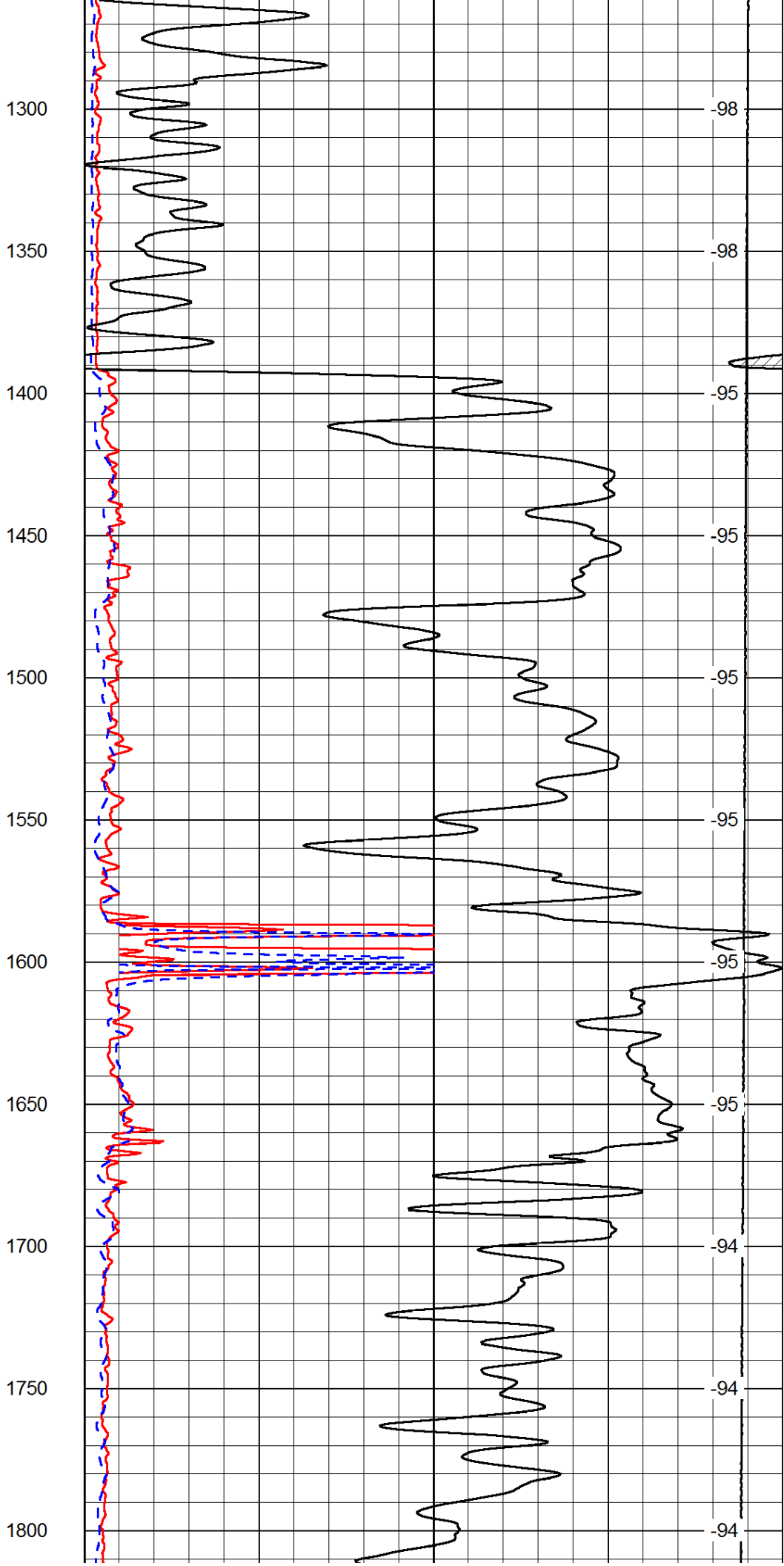
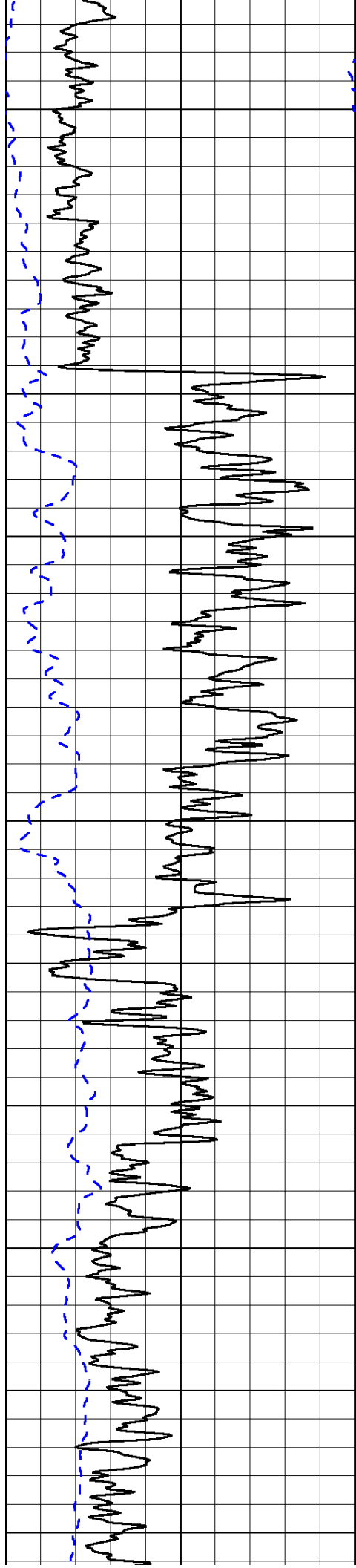
0	Gamma Ray	150
-200	SP (mV)	0

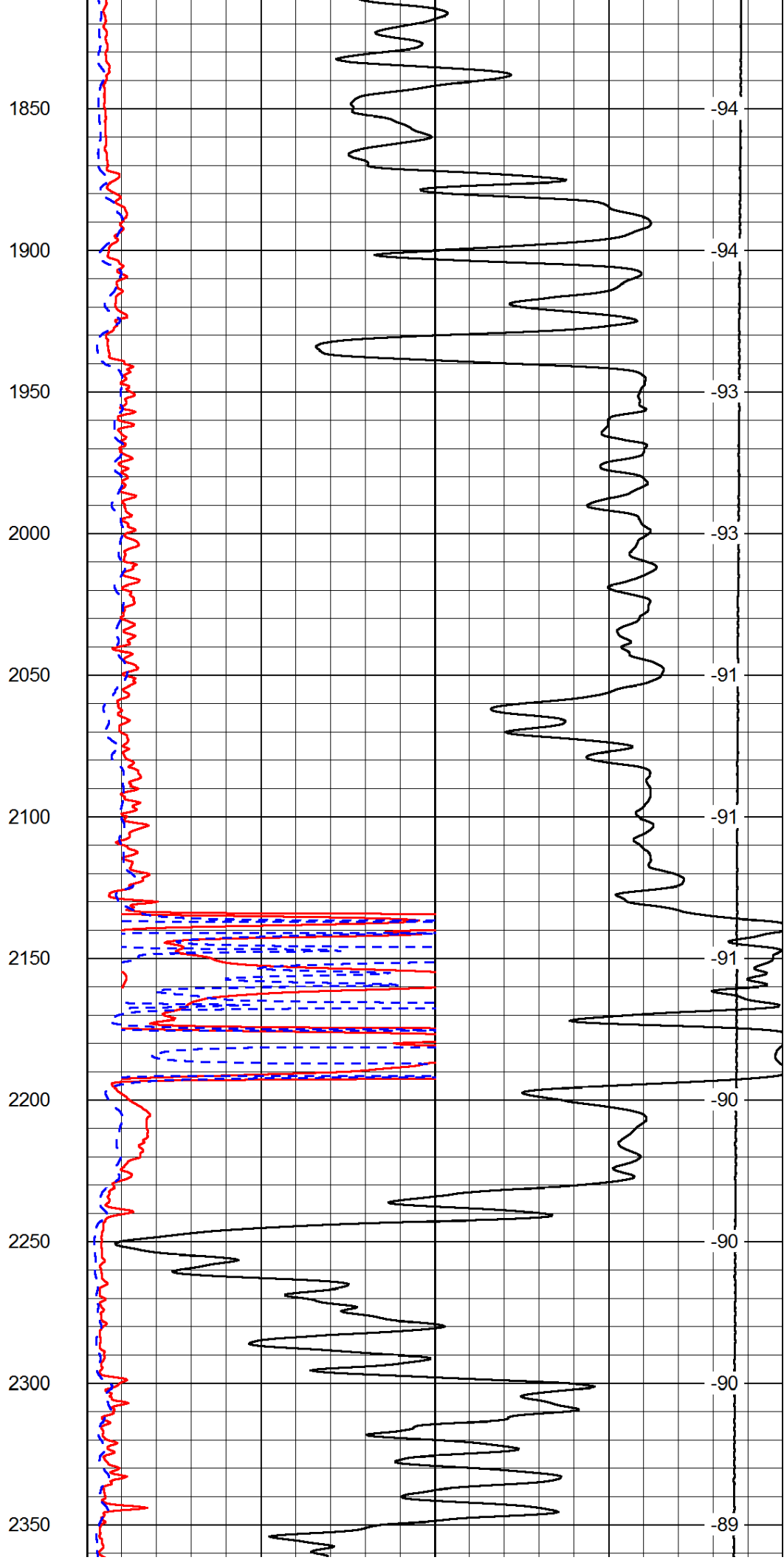
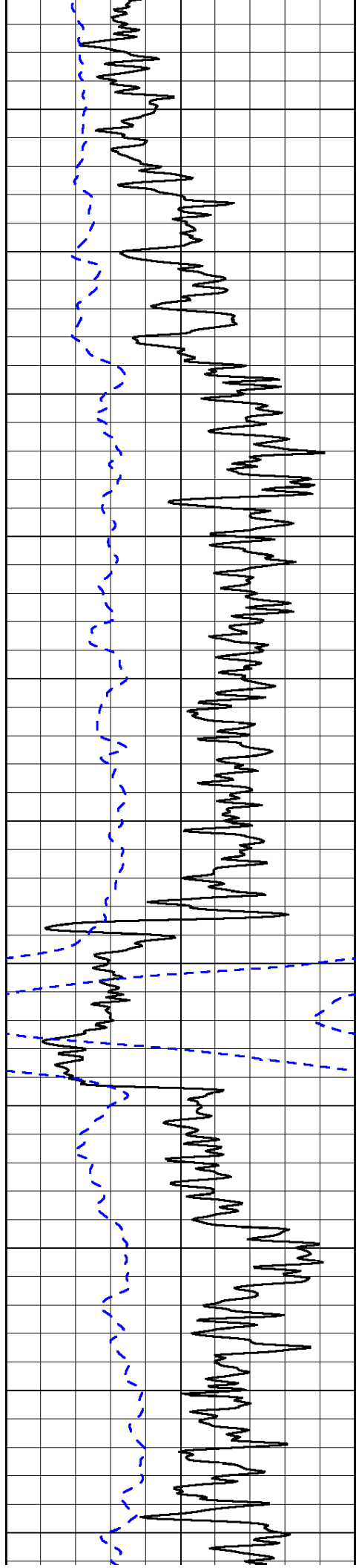


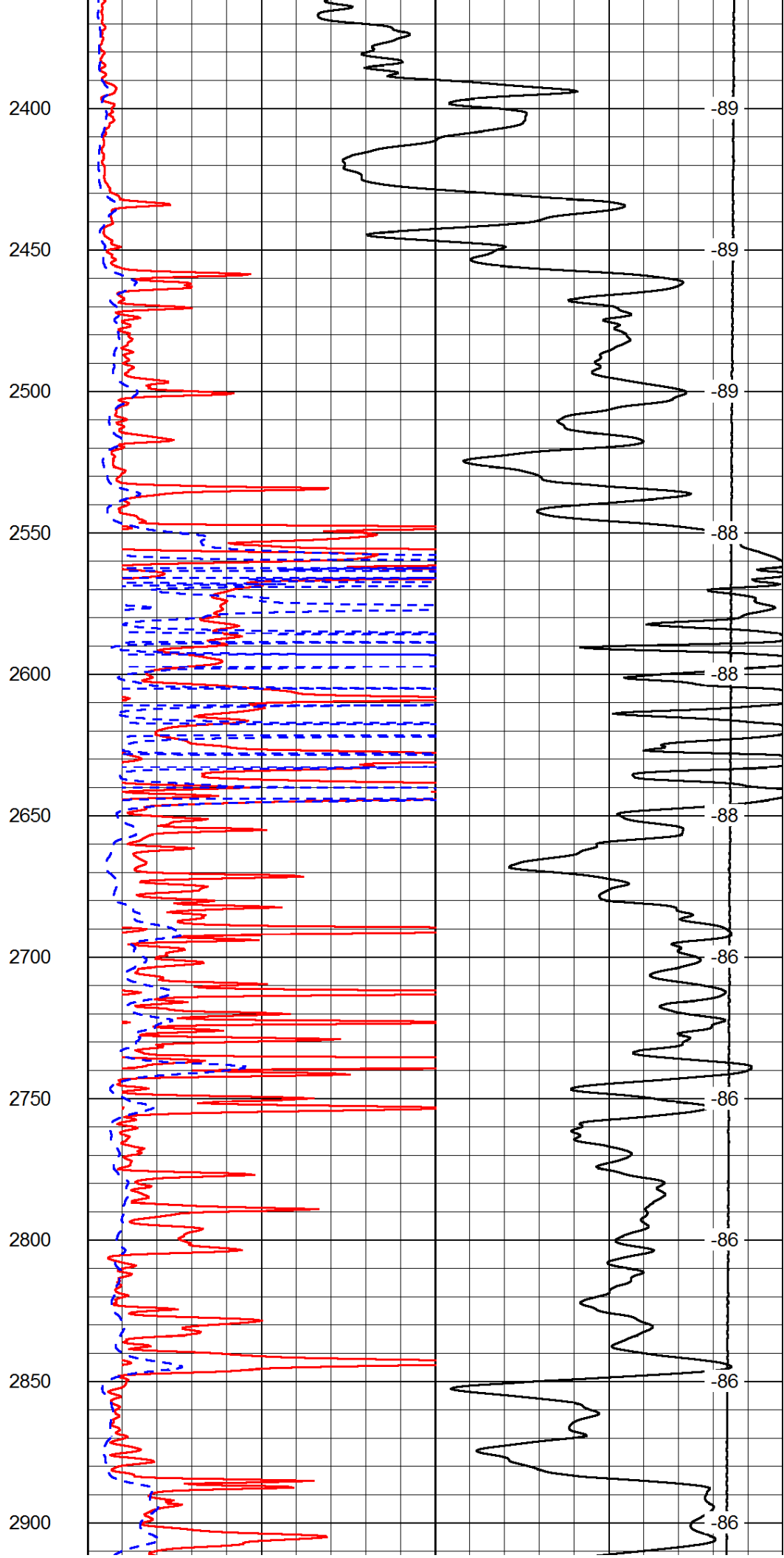
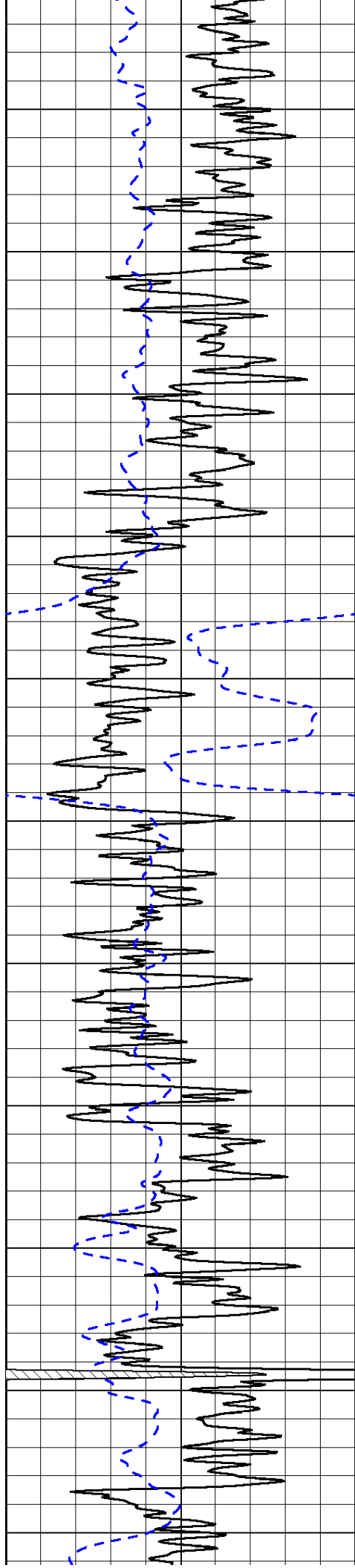
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
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50	Deep Resistivity	500

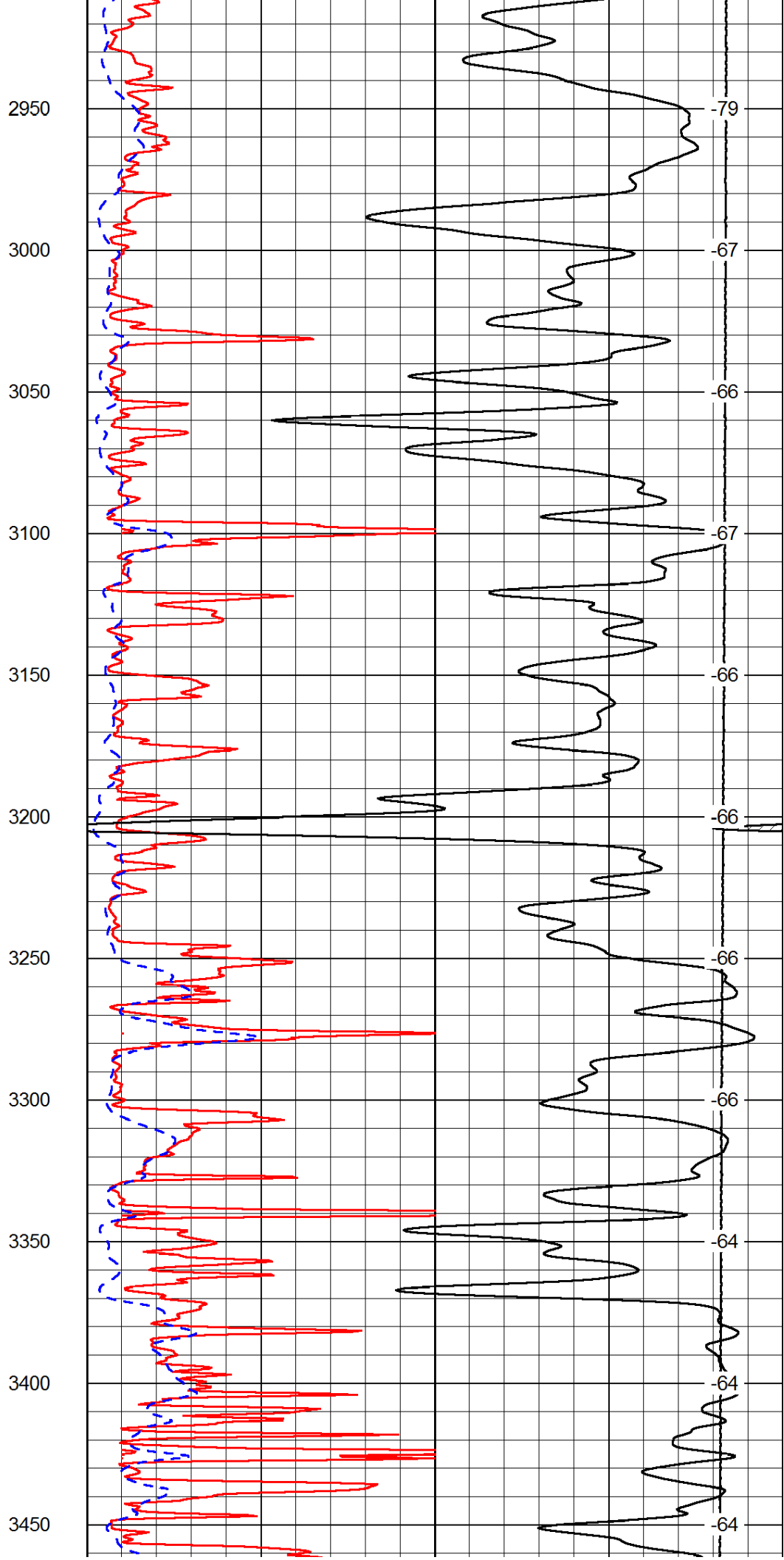
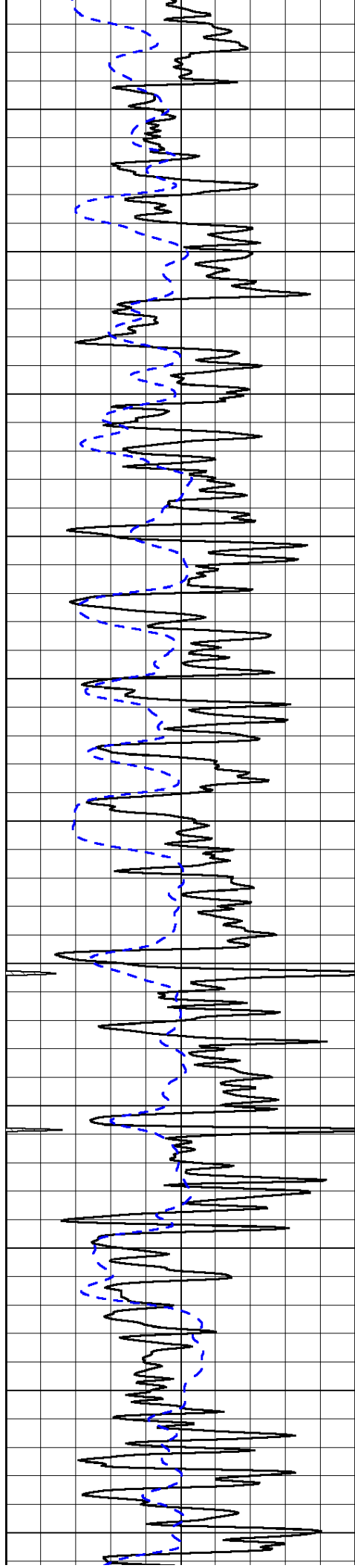


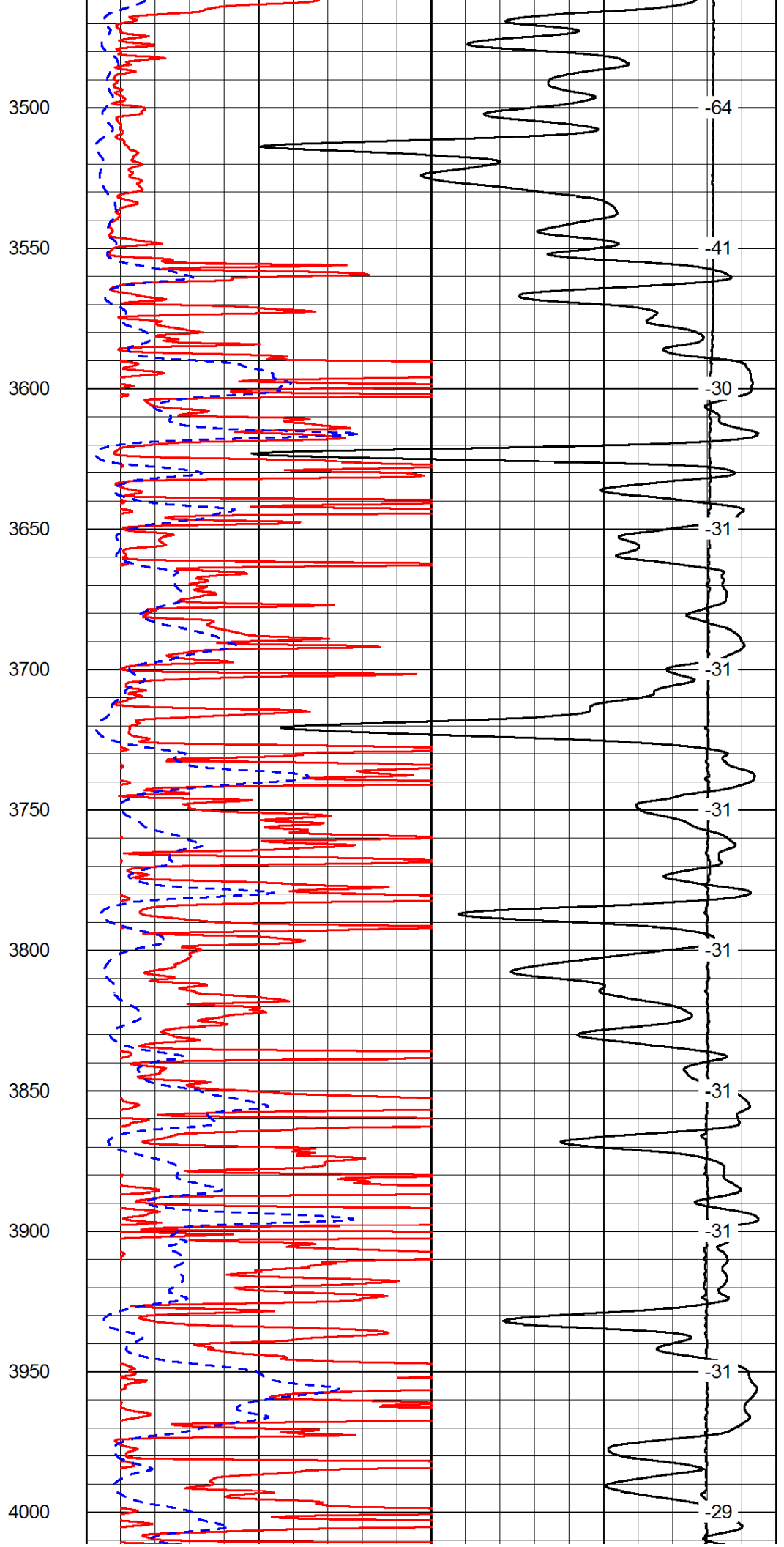
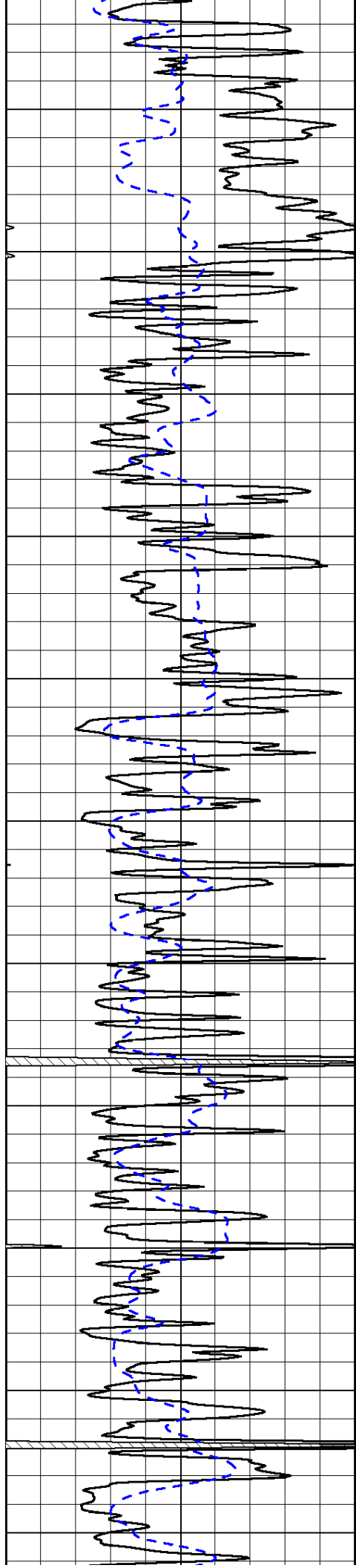


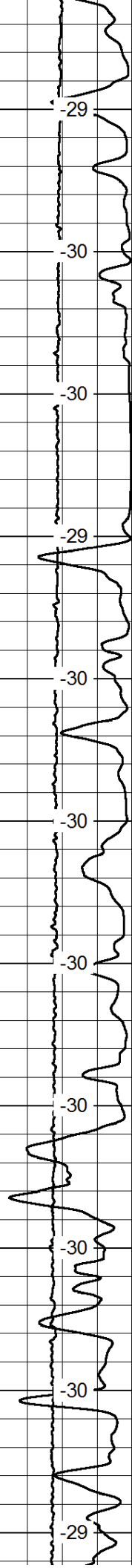
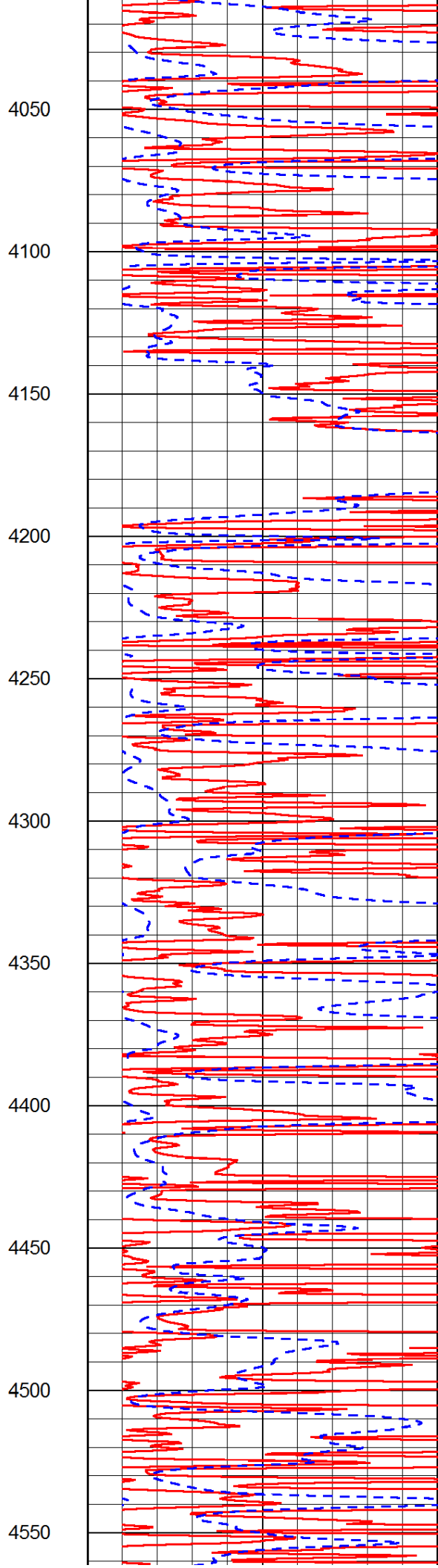
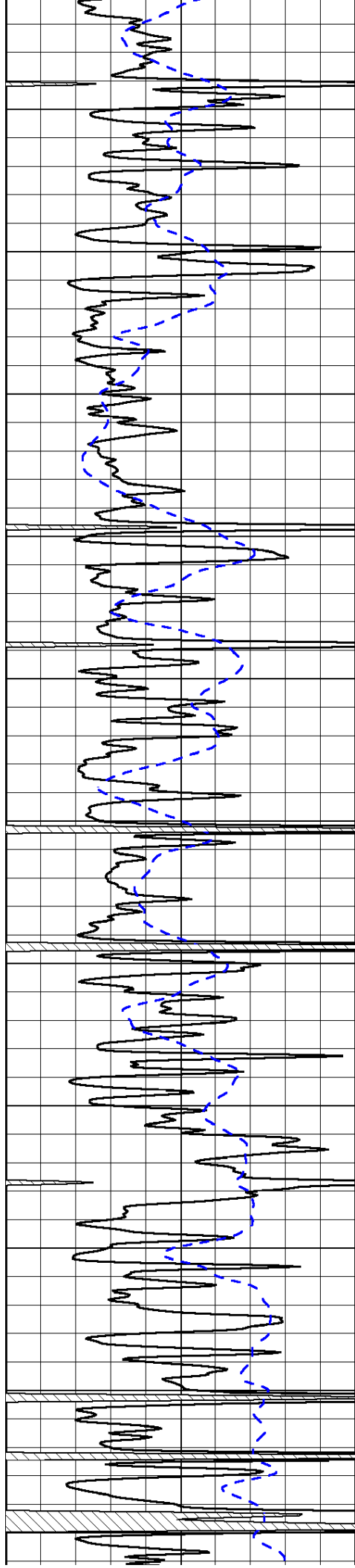


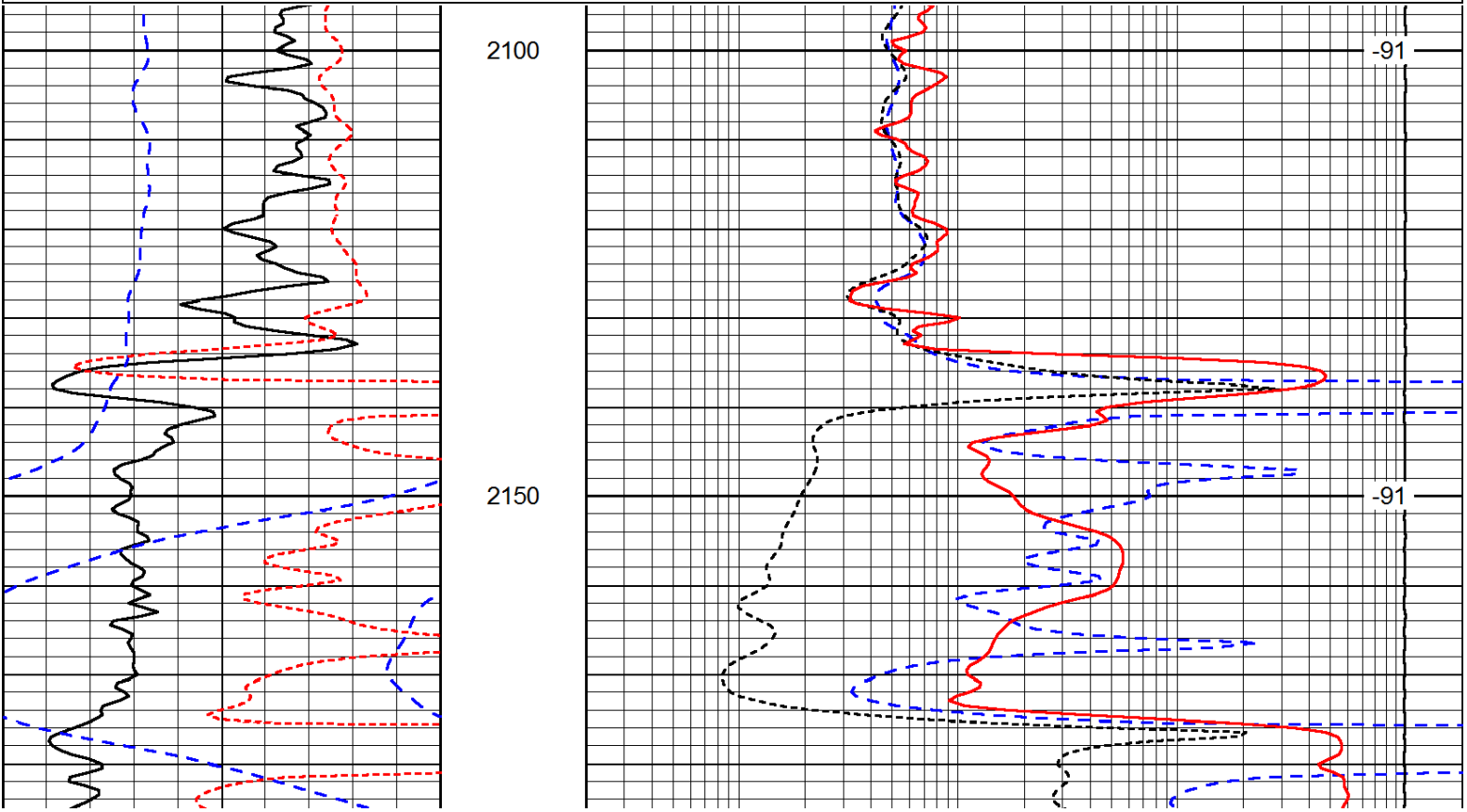
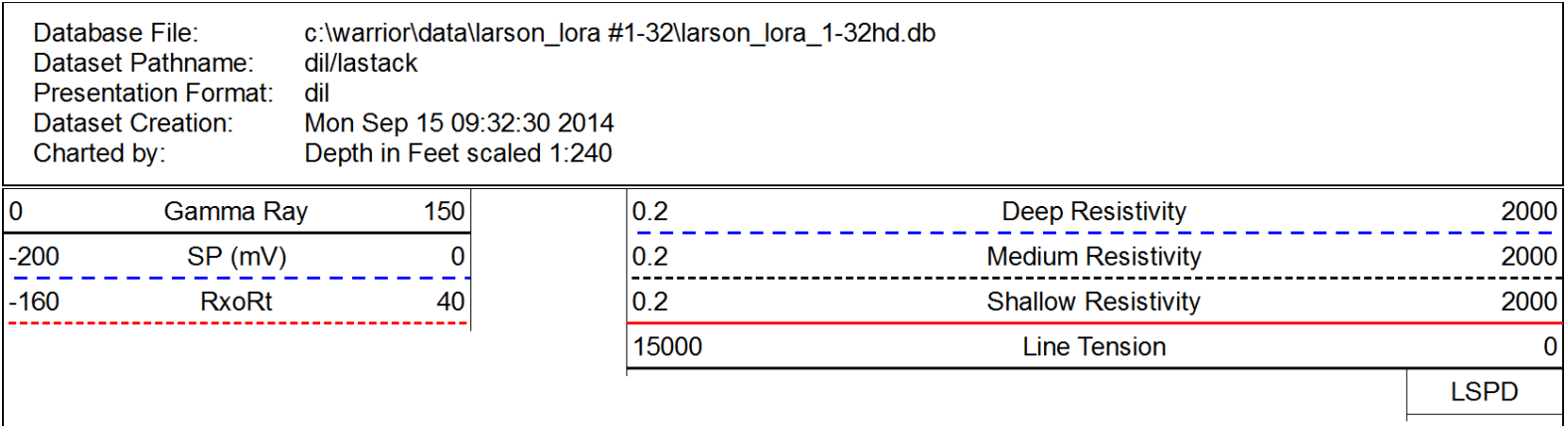
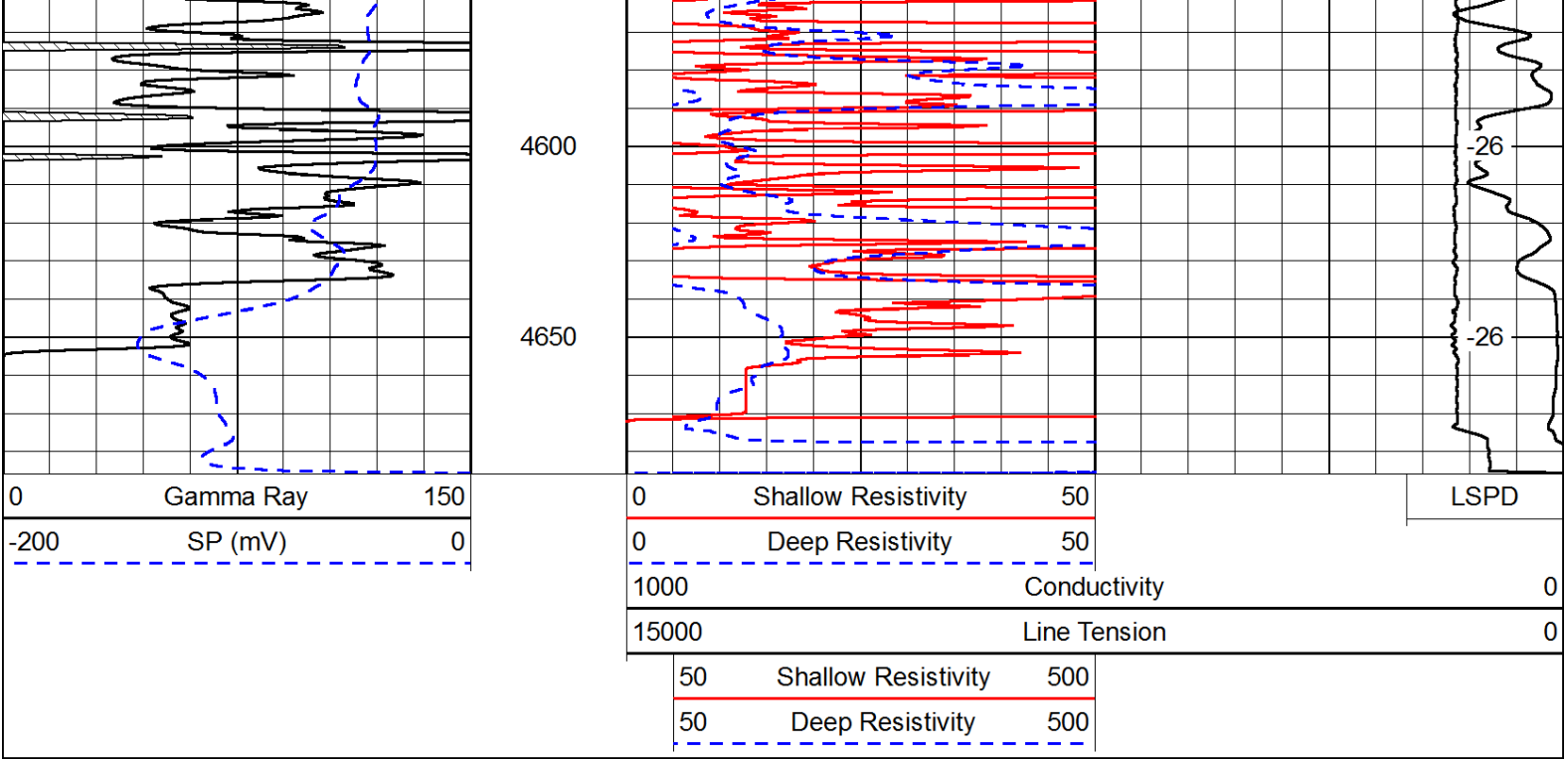


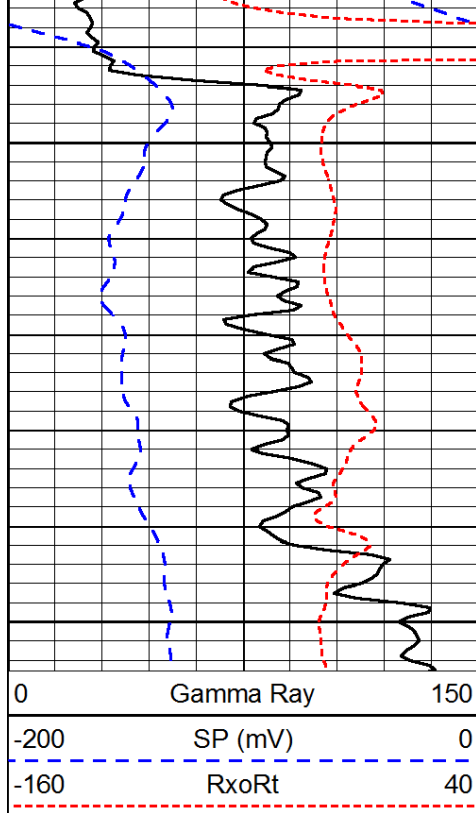






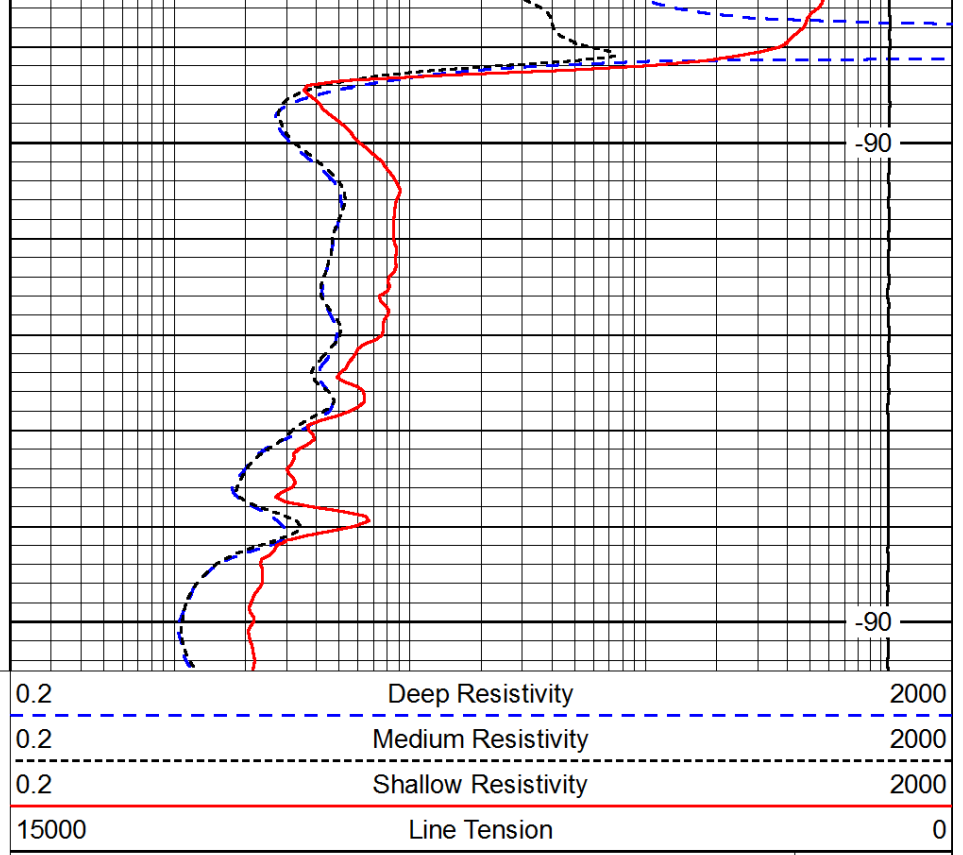






2200

2250

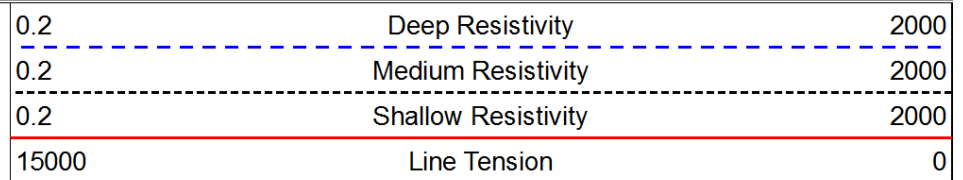
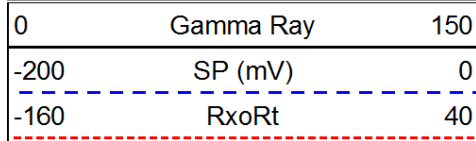


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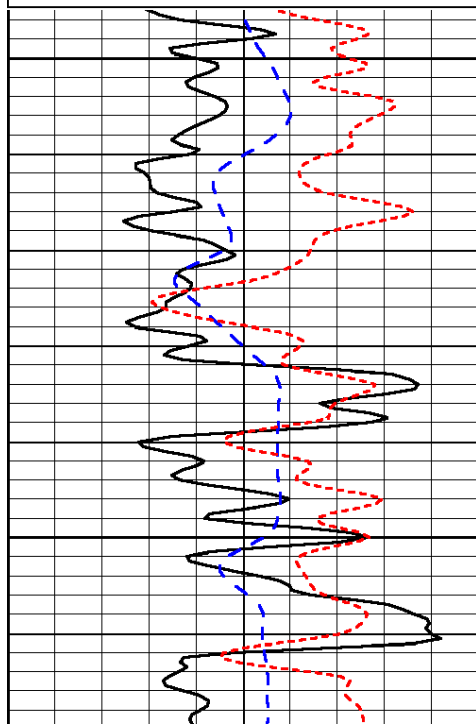
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LSPD

Database File: c:\warrior\data\larson_lora #1-32\larson_lora_1-32hd.db
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 Presentation Format: dil
 Dataset Creation: Mon Sep 15 09:32:30 2014
 Charted by: Depth in Feet scaled 1:240

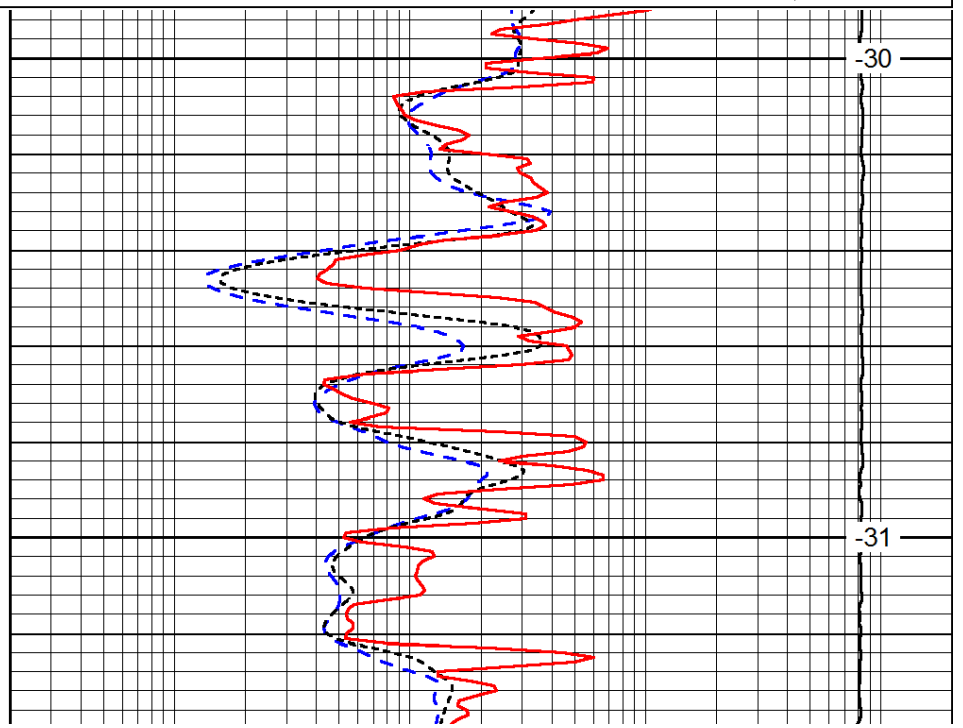


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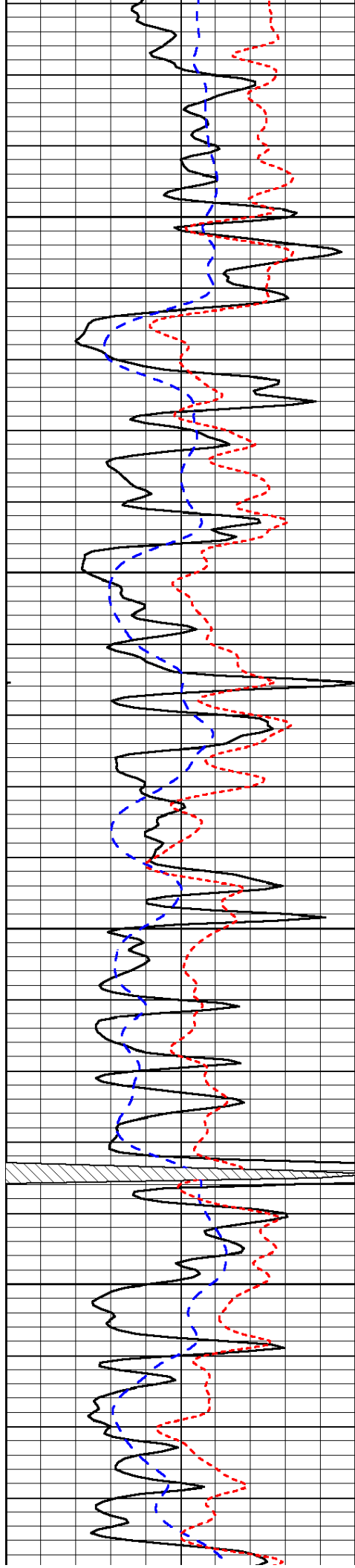
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3650



-30

-31

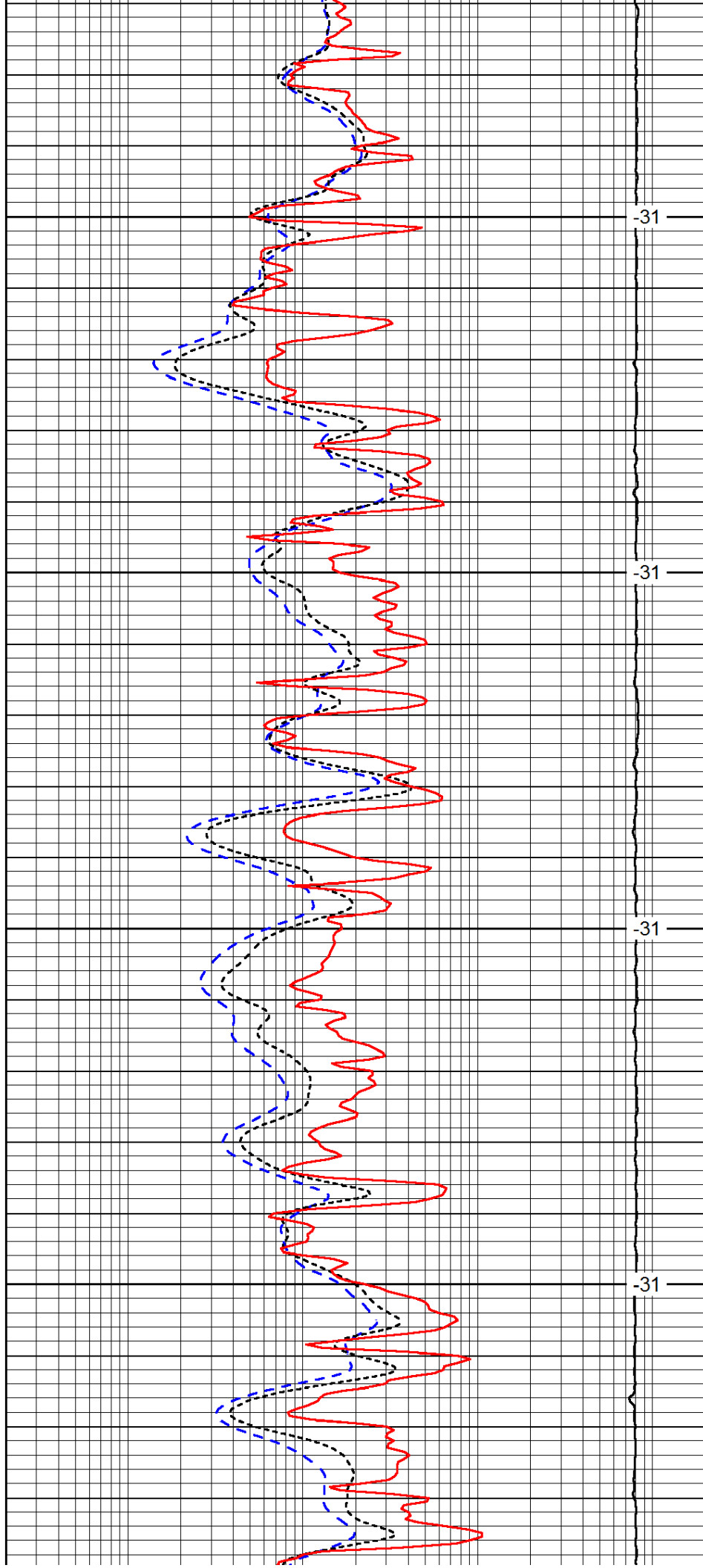


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3800

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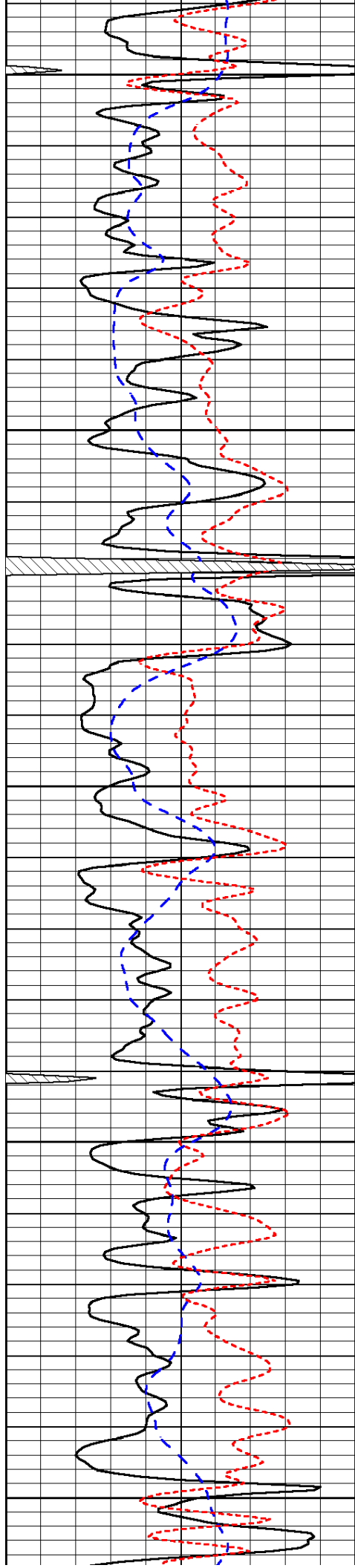


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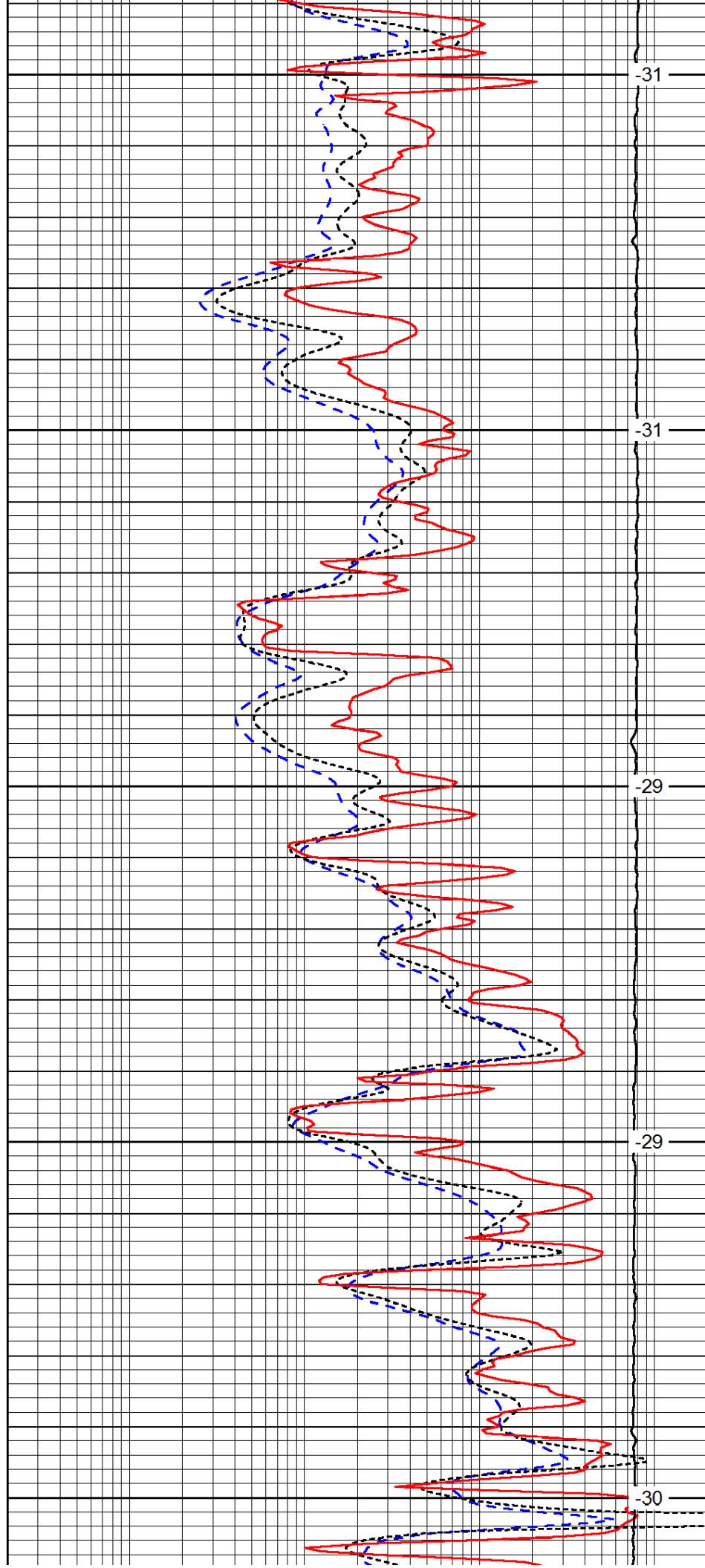
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3950

4000

4050

4100



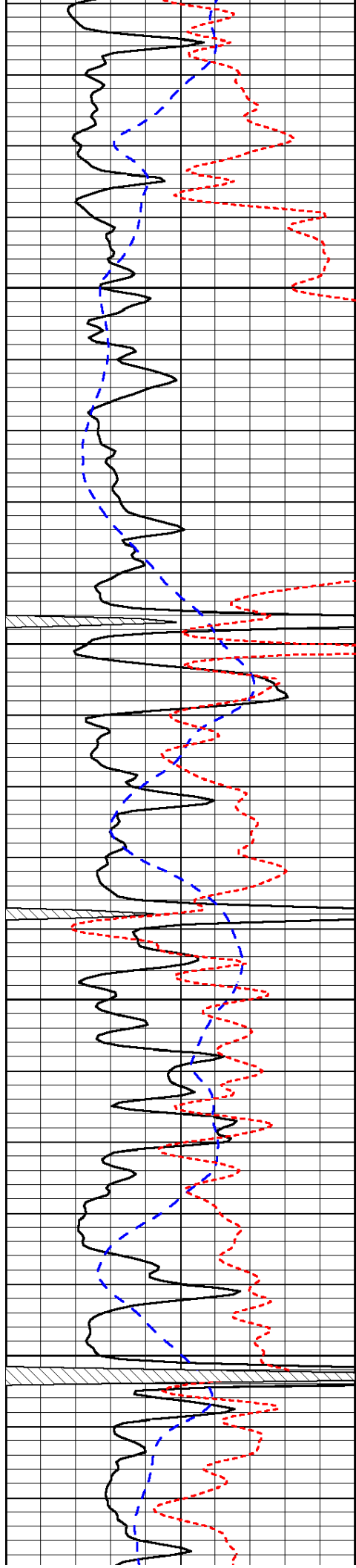
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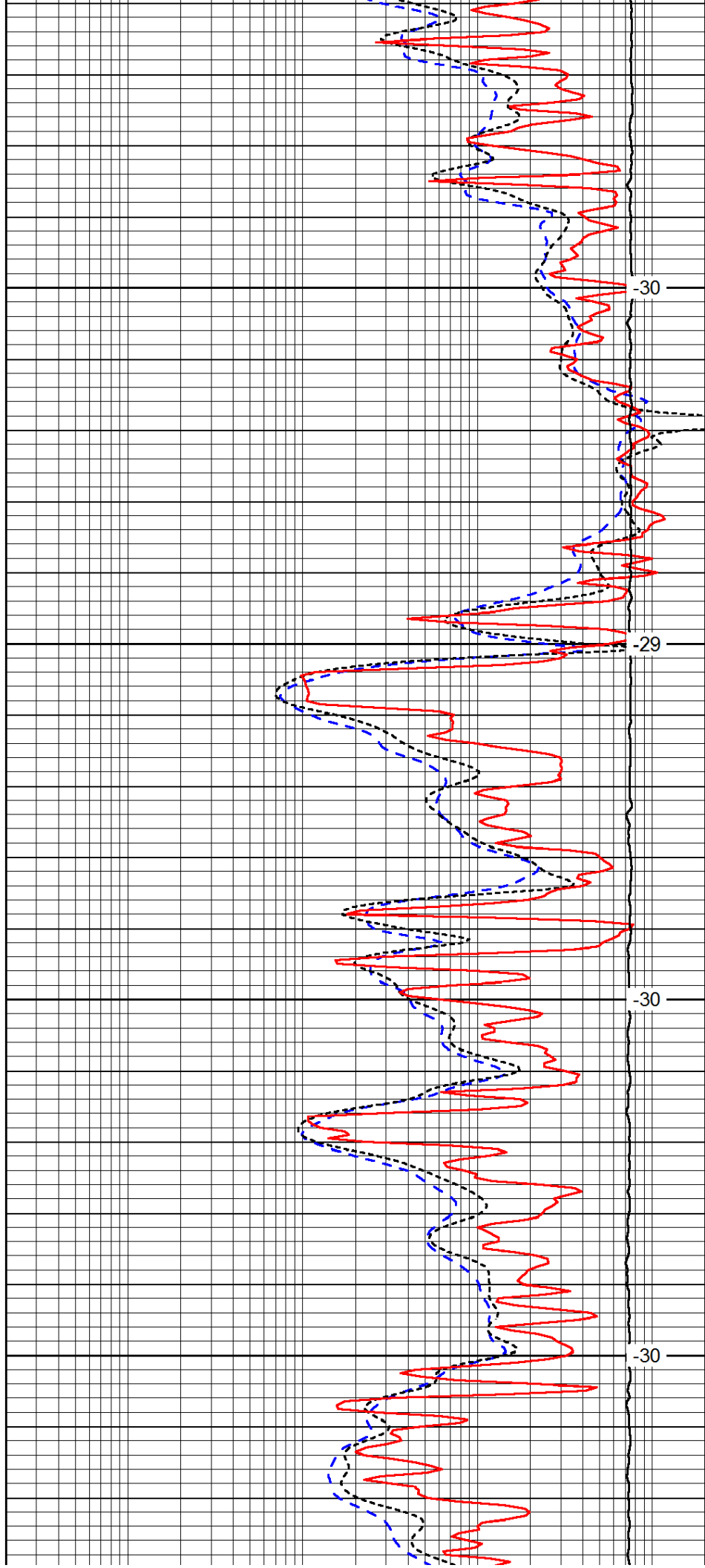


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4200

4250

4300

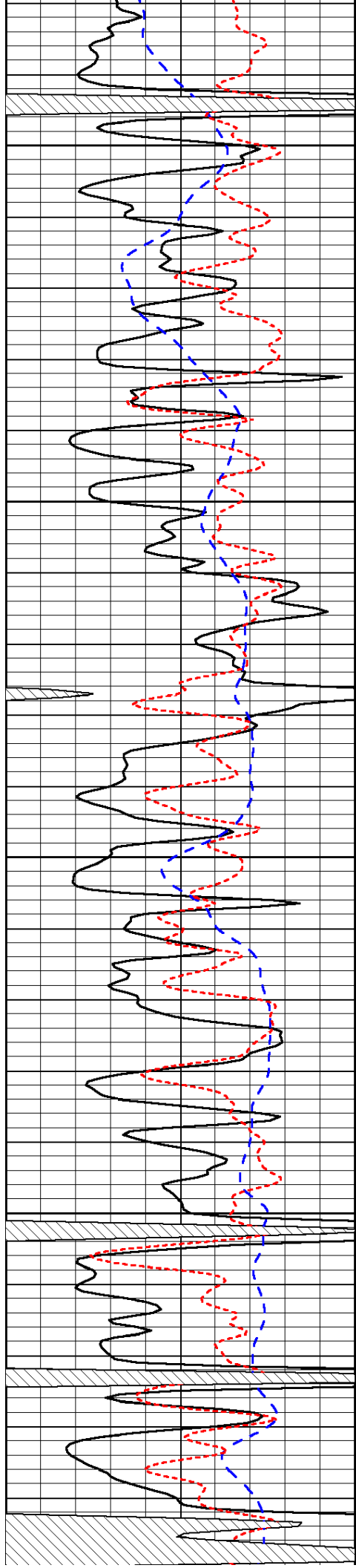


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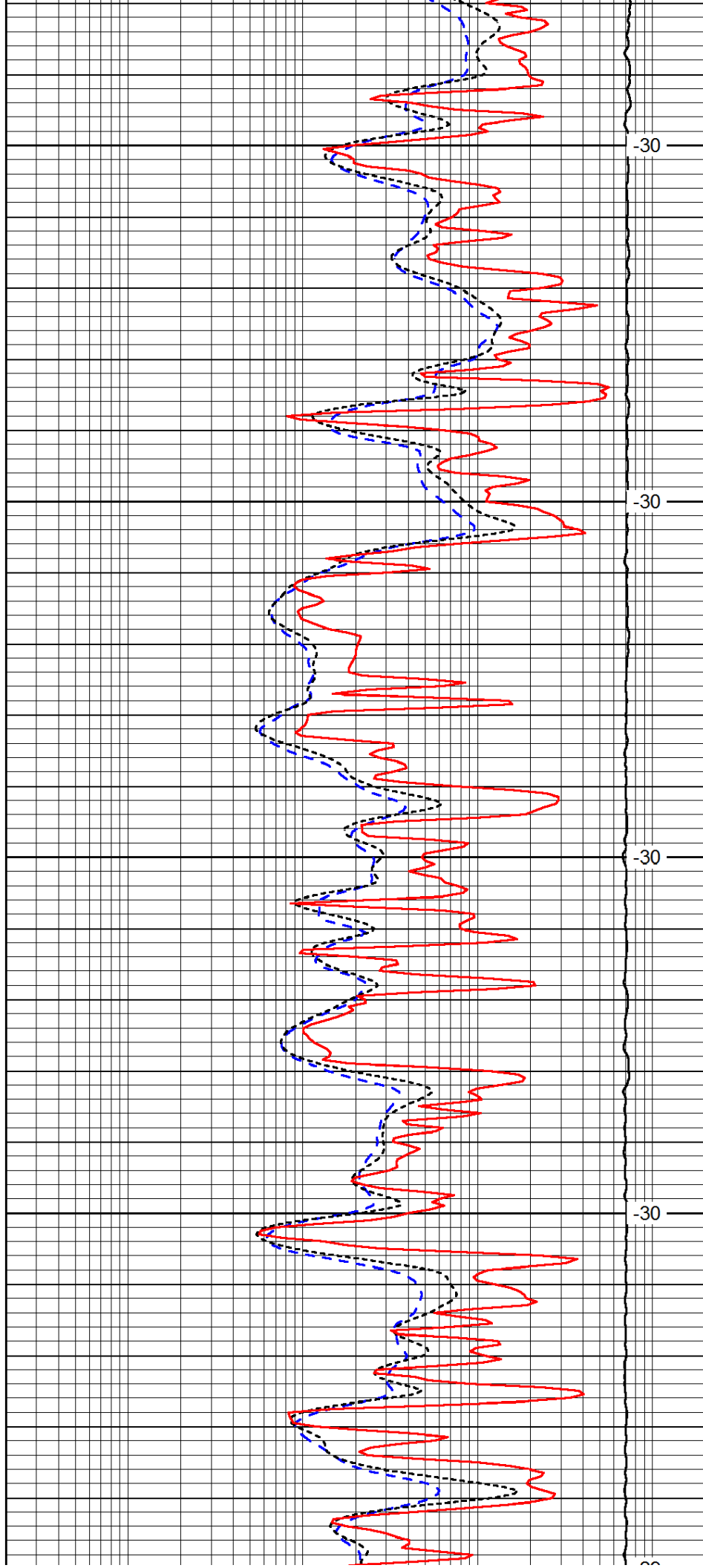
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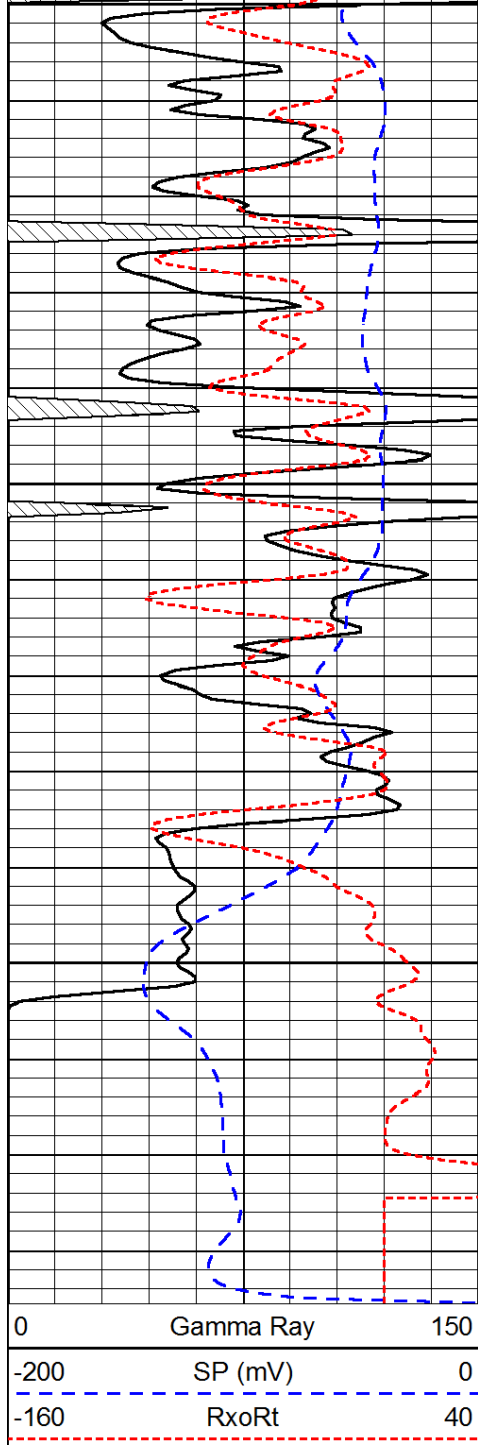
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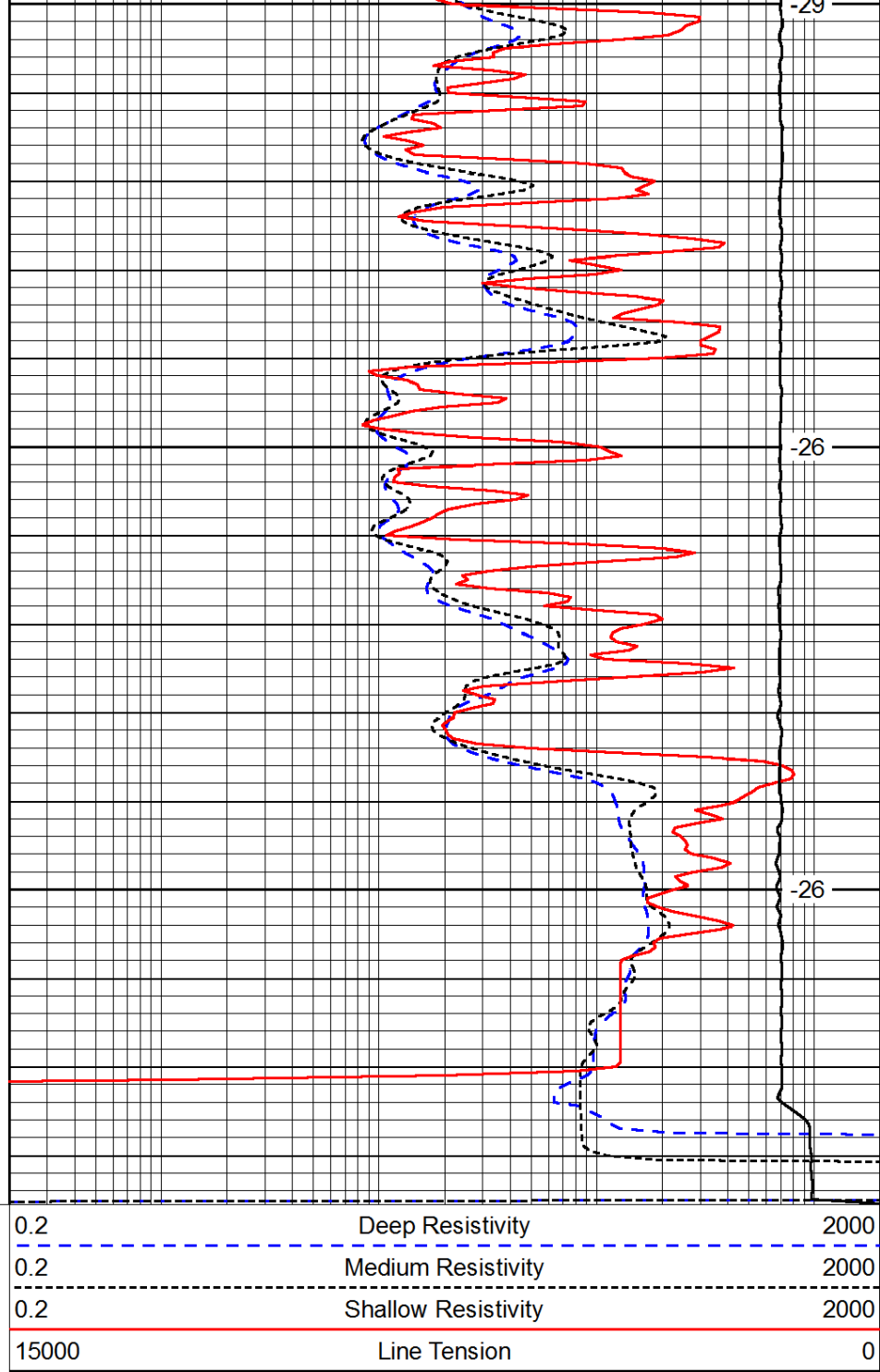




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4600

4650



-26

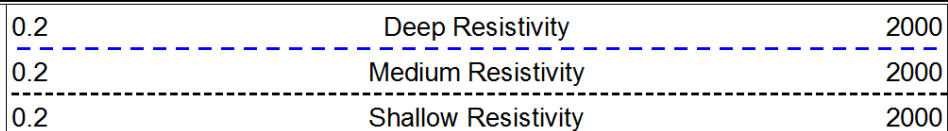
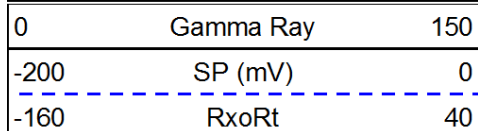
-26

LSPD



Repeat Section

Database File: c:\warrior\data\larson_lora #1-32\larson_lora_1-32hd.db
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 Presentation Format: dil
 Dataset Creation: Mon Sep 15 07:55:53 2014
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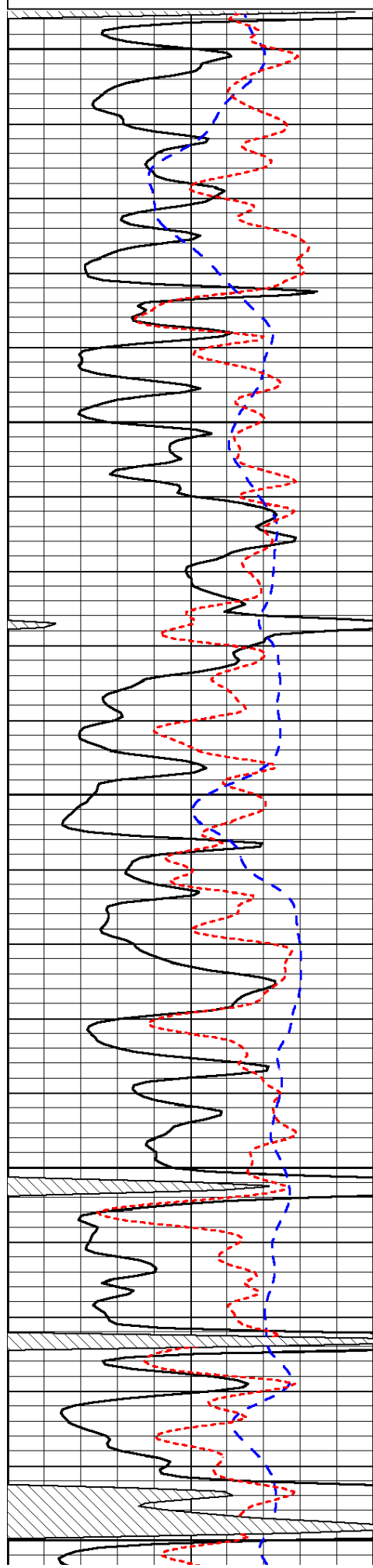


15000

Line Tension

0

LSPD



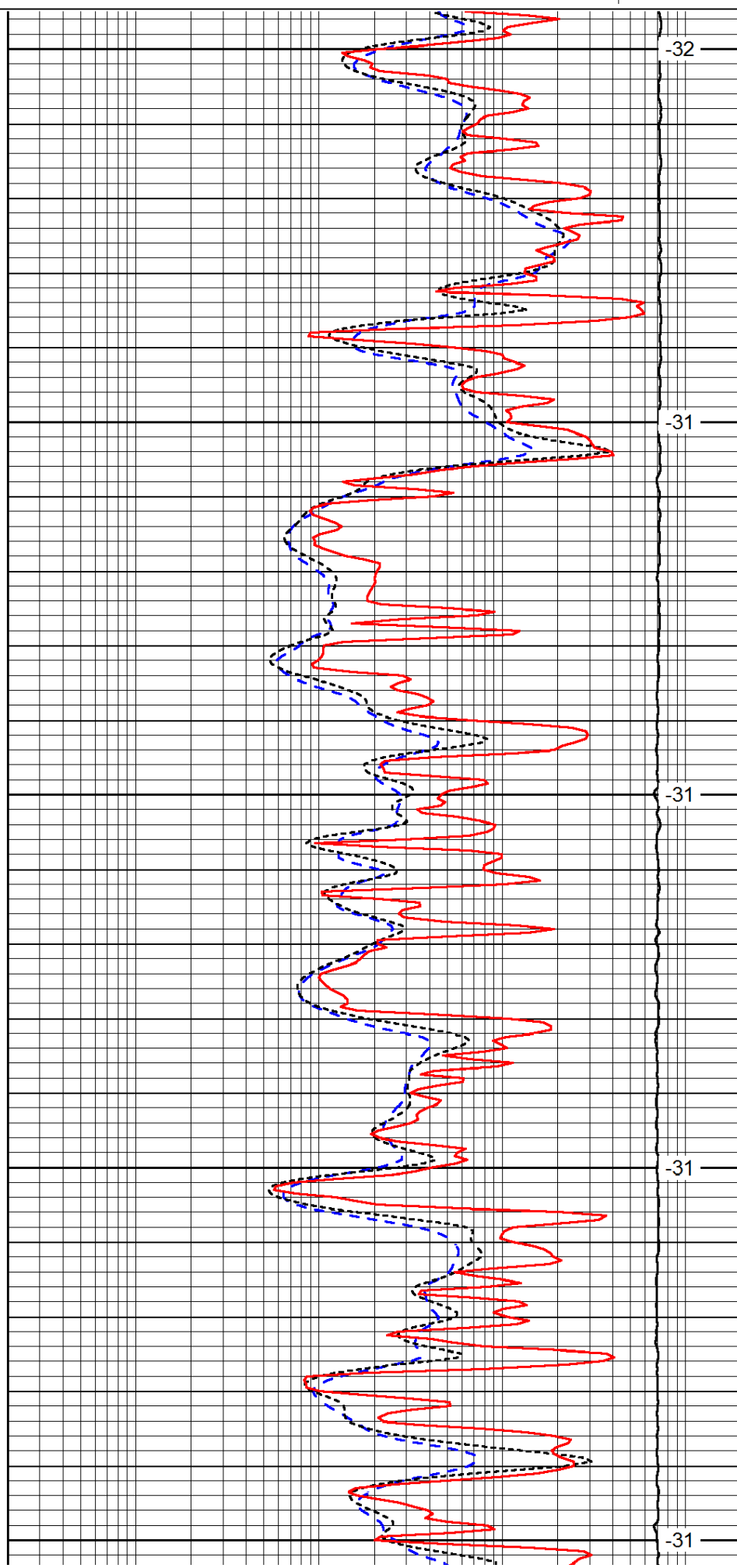
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4500

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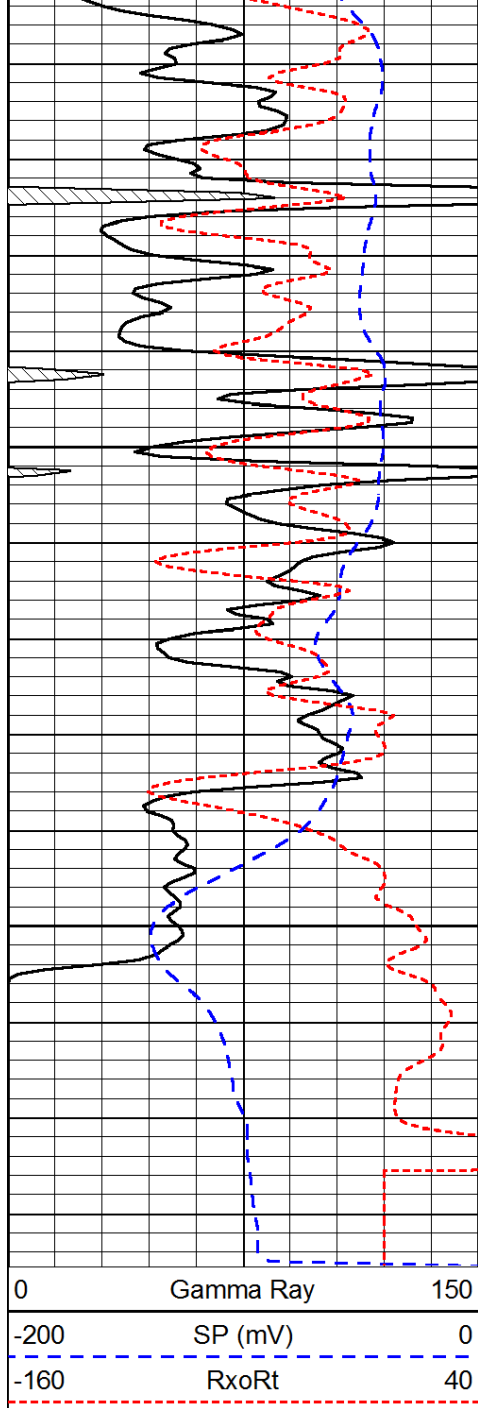
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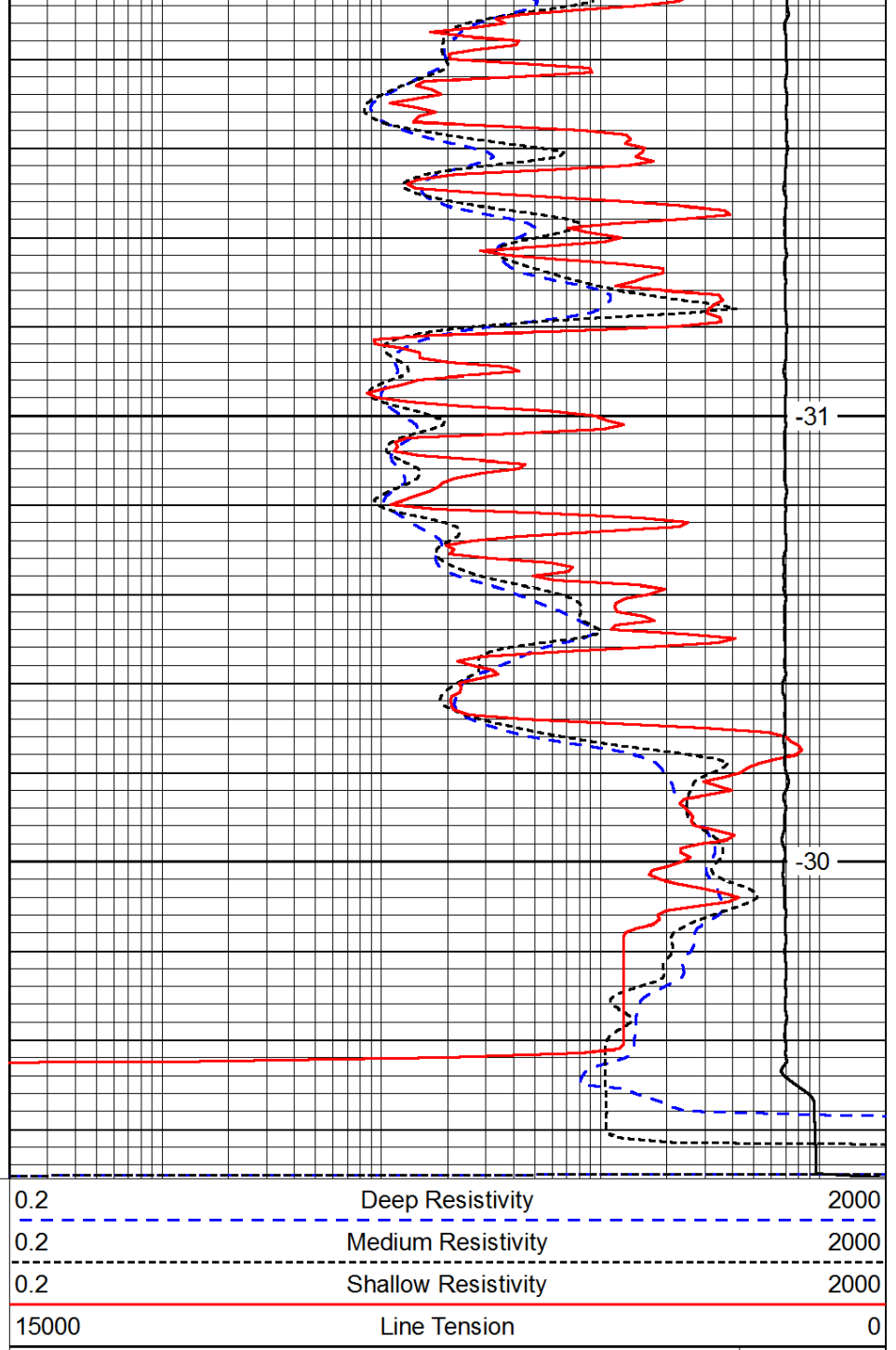
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4600

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-30

LSPD