



Dual Induction Log

Pioneer Energy Services

API No.	Company Indian Oil Company, Inc.				
	Well Blackstock #3				
	Field Stranathan				
	County Barber	State	Kansas		
15-007-24,168-00-00	Location	SW NE SE NW 1740' FNL & 2210' FWL		Other Services CNL/CDL	
	Sec: 12	Twp: 35S	Rge: 12W	Elevation K.B. 1362 D.F. G.L. 1351	
Permanent Datum	Ground Level	Elevation 1351			
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum			
Drilling Measured From	From Kelly Bushing				
Date	5/18/2014				
Run Number	One				
Depth Driller	5209				
Depth Logger	5209				
Bottom Logged Interval	5208				
Top Log Interval	250				
Casing Driller	8.625 @ 268				
Casing Logger	269				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	6000				
Density / Viscosity	9.5 63				
pH / Fluid Loss	9.5 9.6				
Source of Sample	Flowline				
Rm @ Meas. Temp	0.45 @ 83				
Rmf @ Meas. Temp	0.34 @ 83				
Rmc @ Meas. Temp	0.61 @ 83				
Source of Rmf / Rmc	Charts				
Rm @ BHT	0.29 @ 128				
Operating Rig Time	2 1/2 Hours				
Max Rec. Temp. F	128				
Equipment Number	15				
Location	Hays				
Recorded By	D.Kerr				
Witnessed By	Scott Alberg				

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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

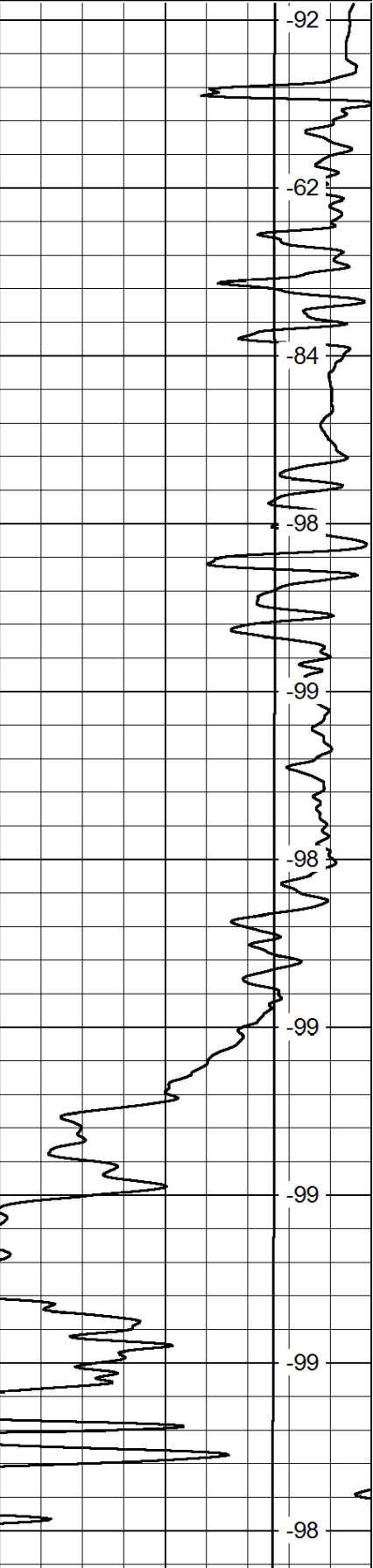
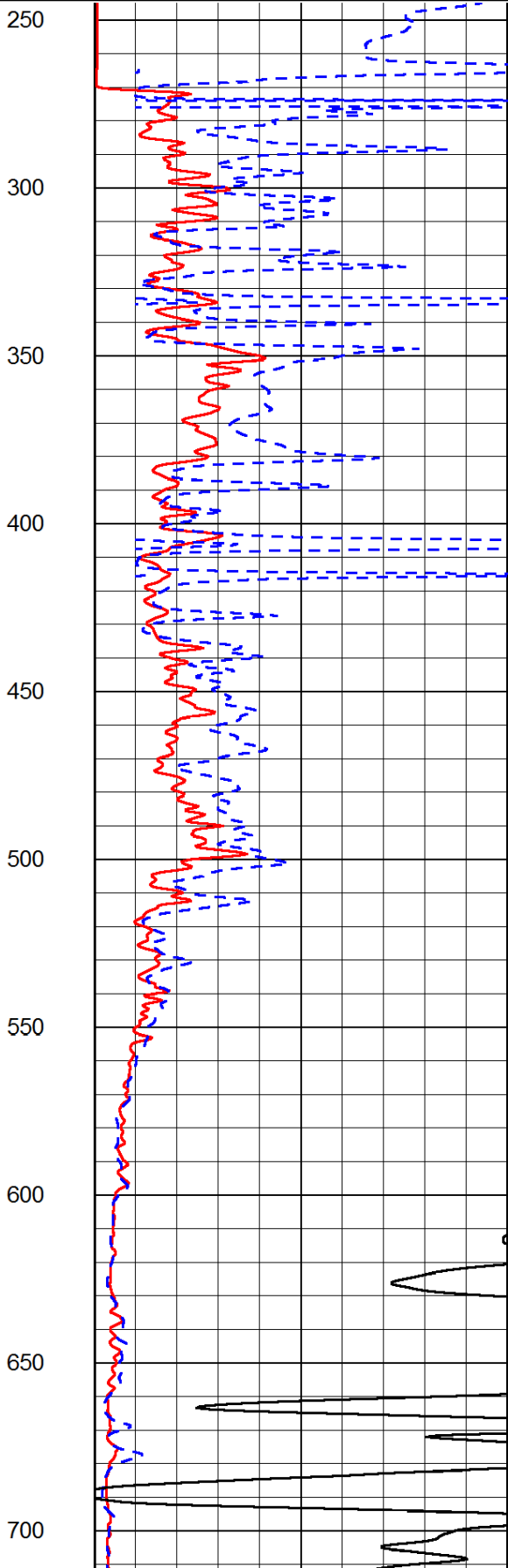
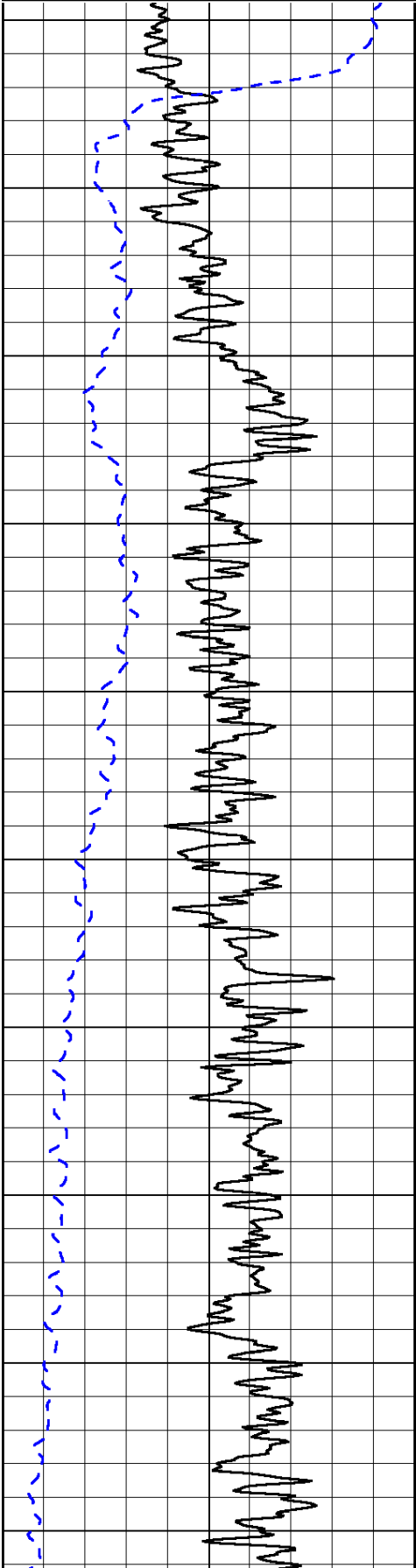
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

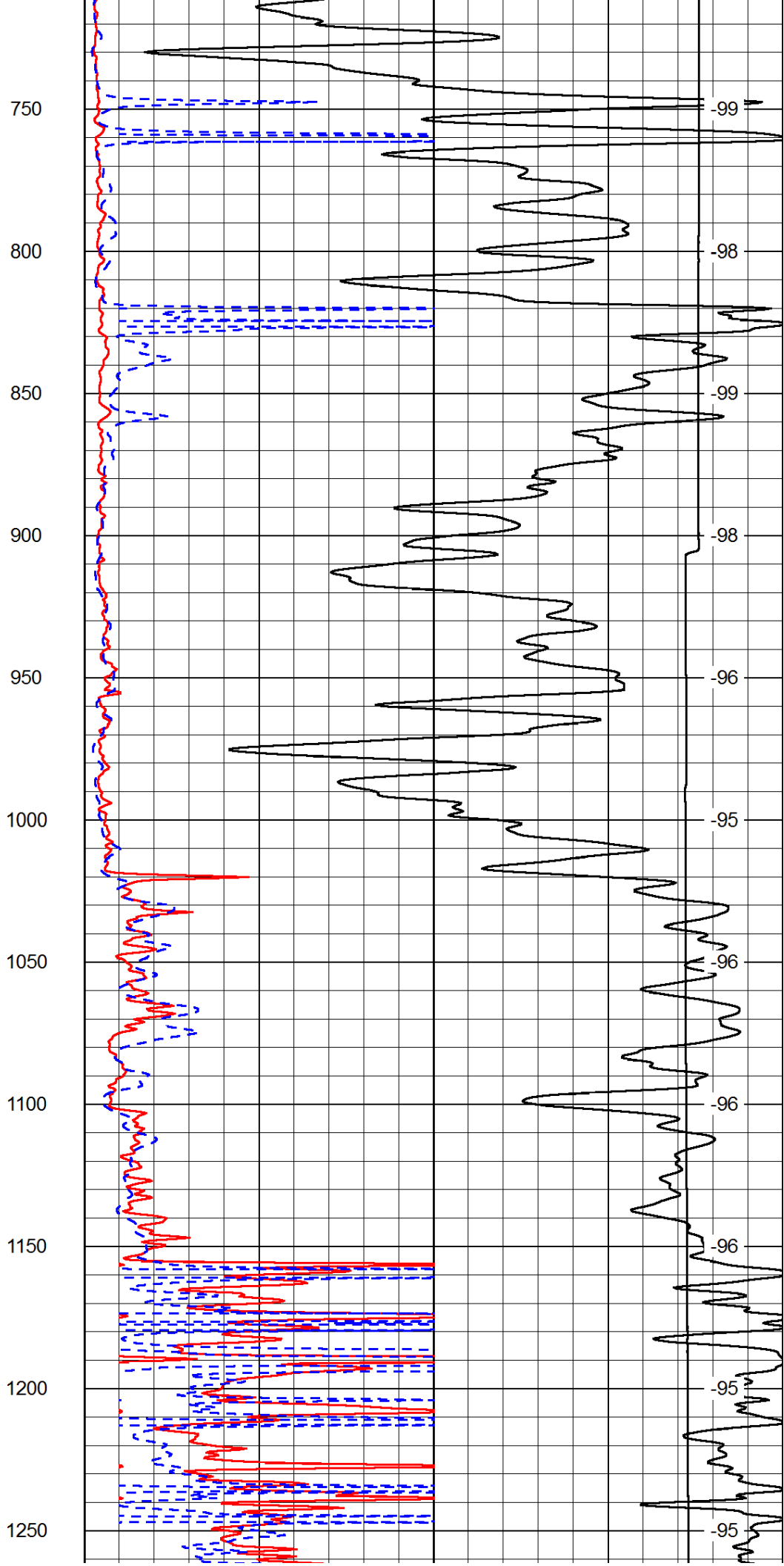
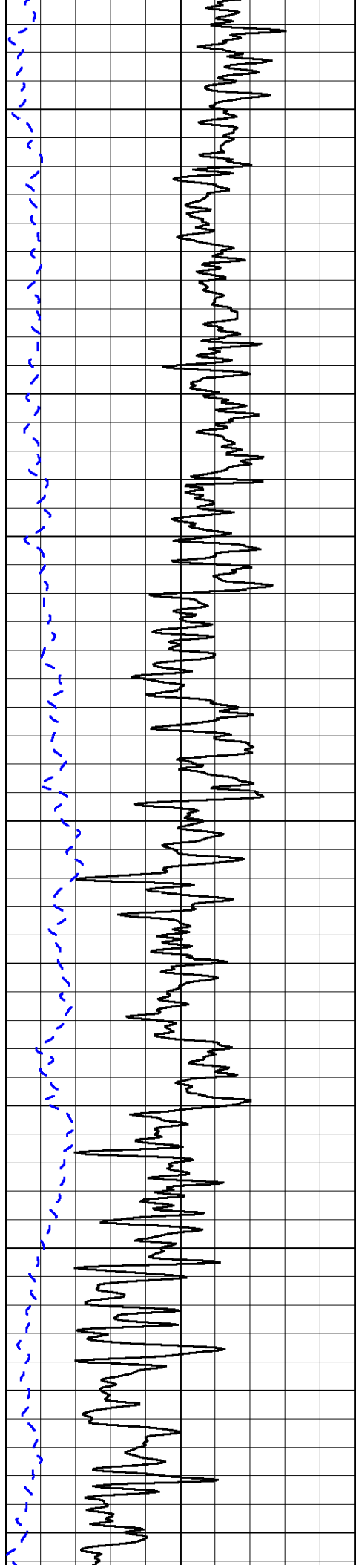
Hardtner KS, 4 1/8 East, North at Tanks

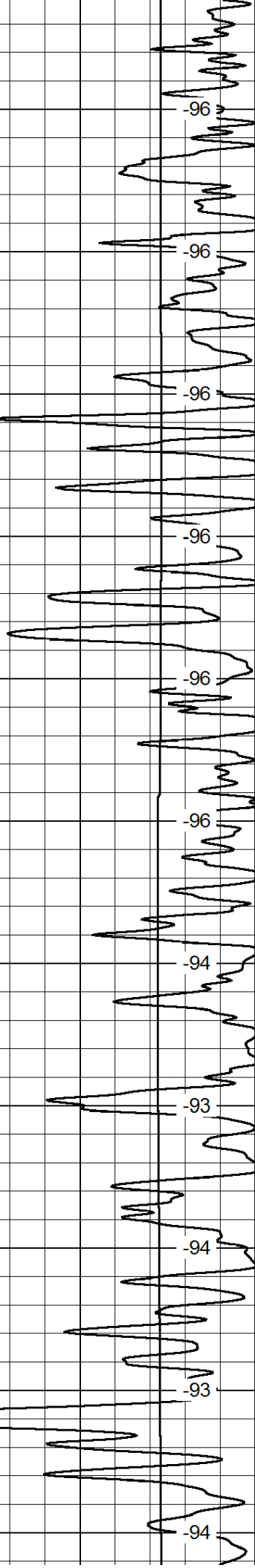
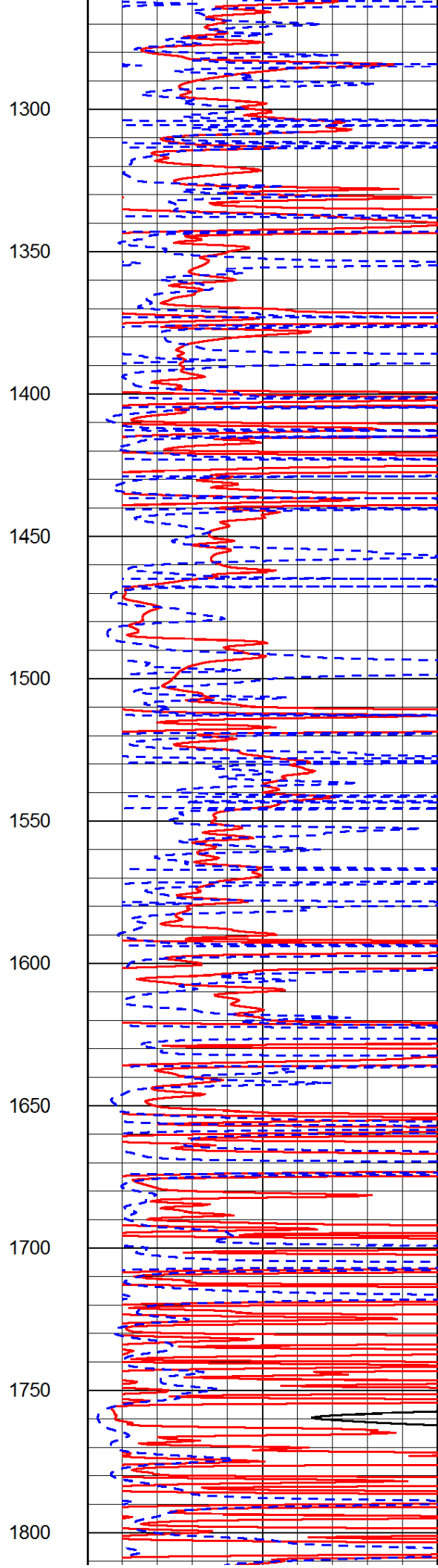
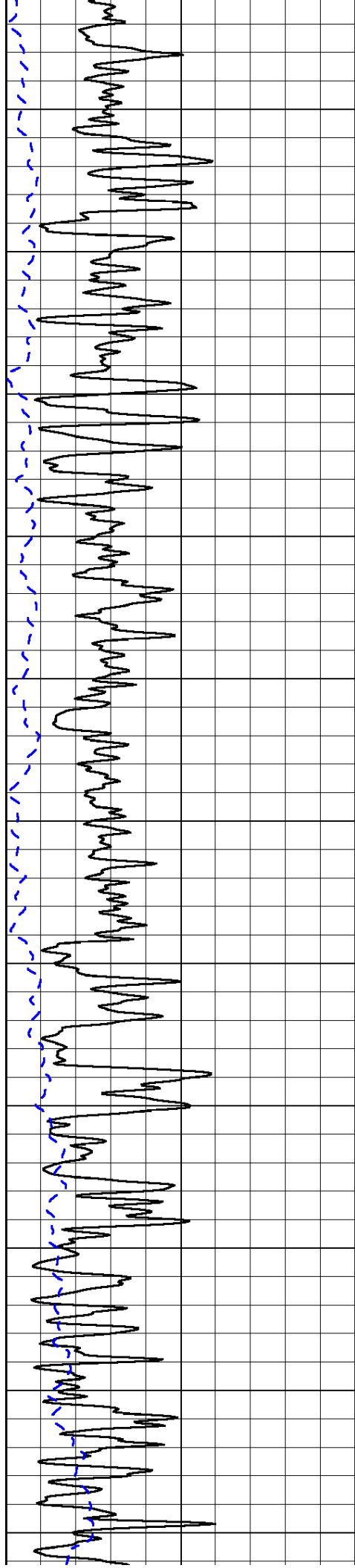
0	Gamma Ray	150
-200	SP (mV)	0

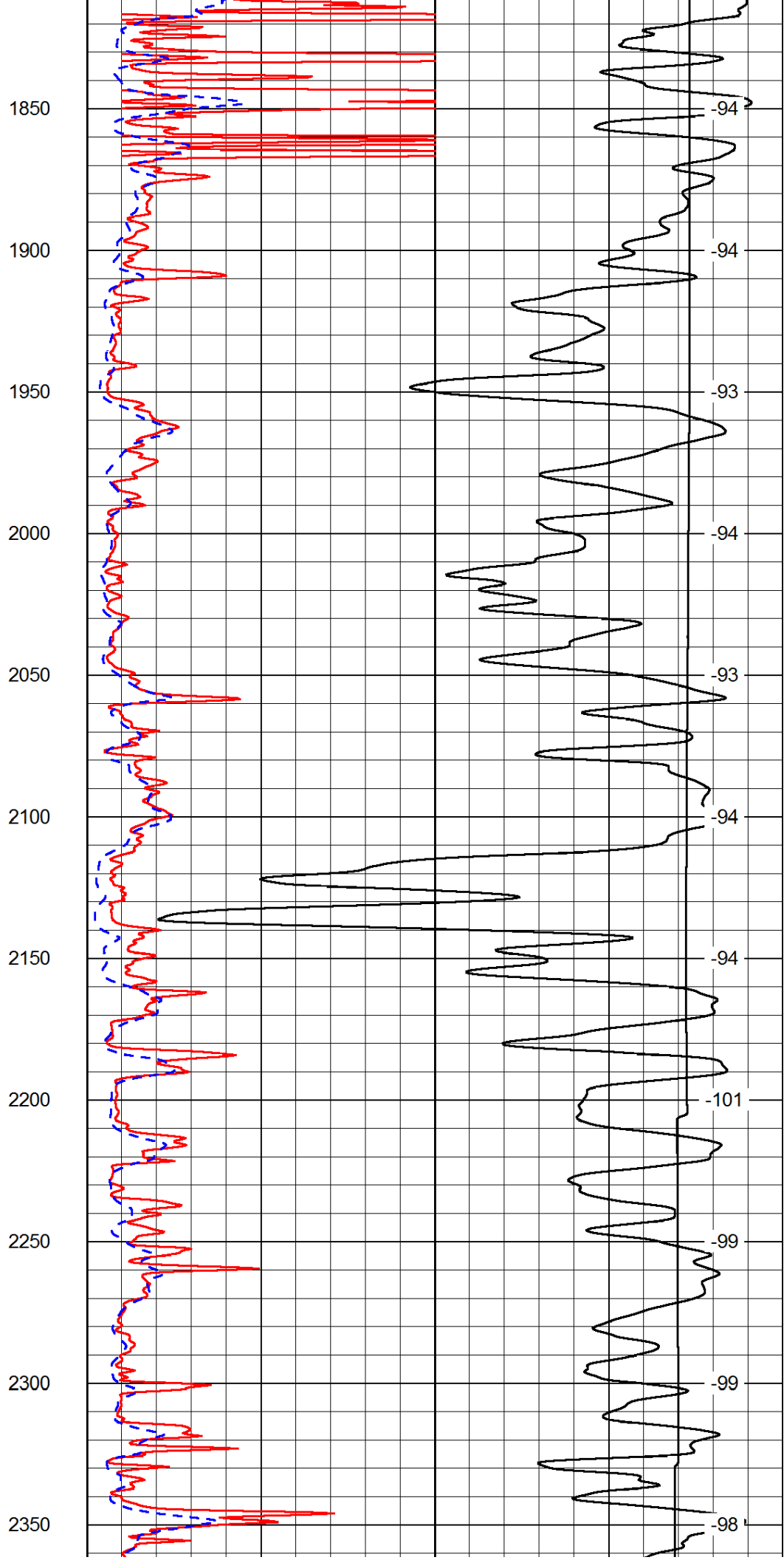
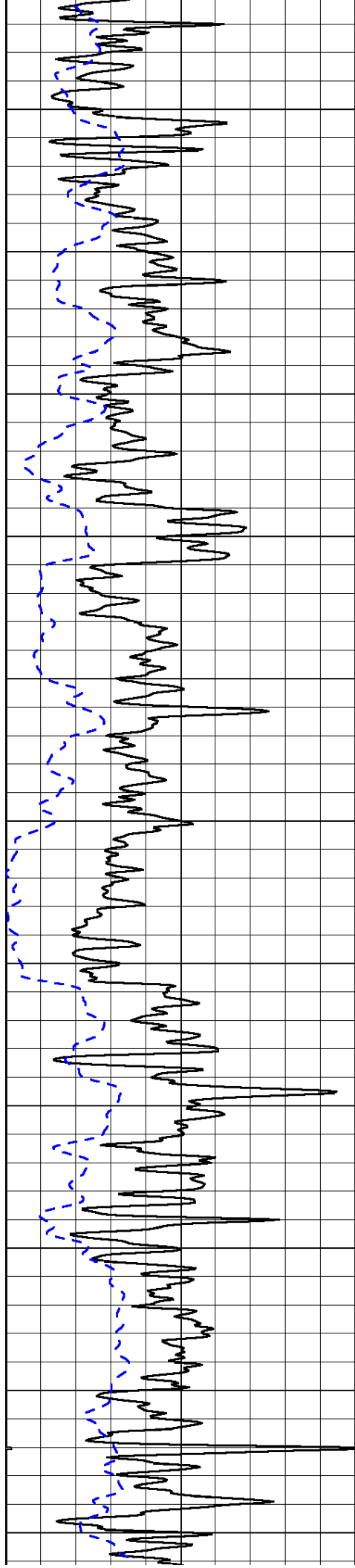
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

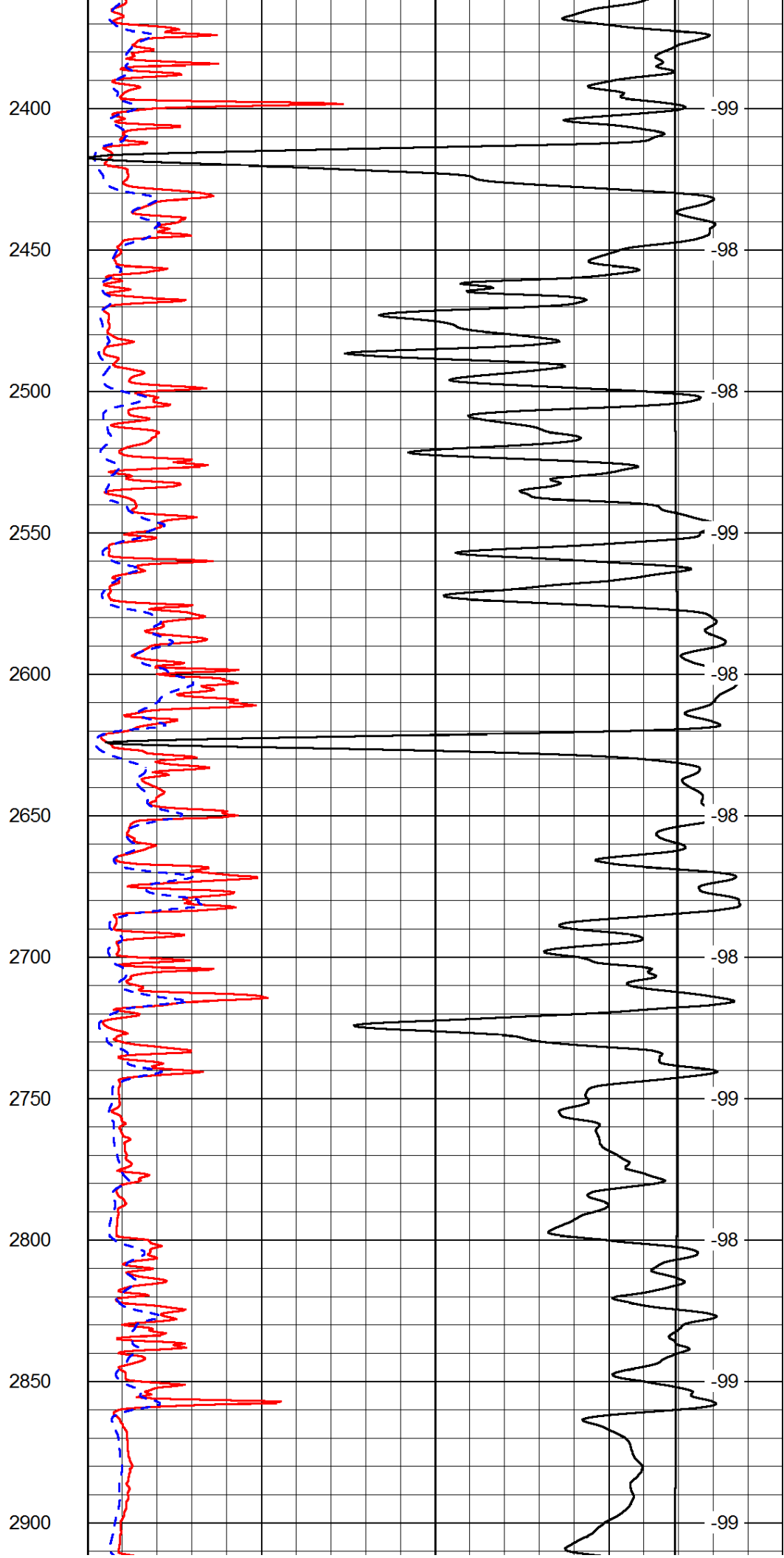
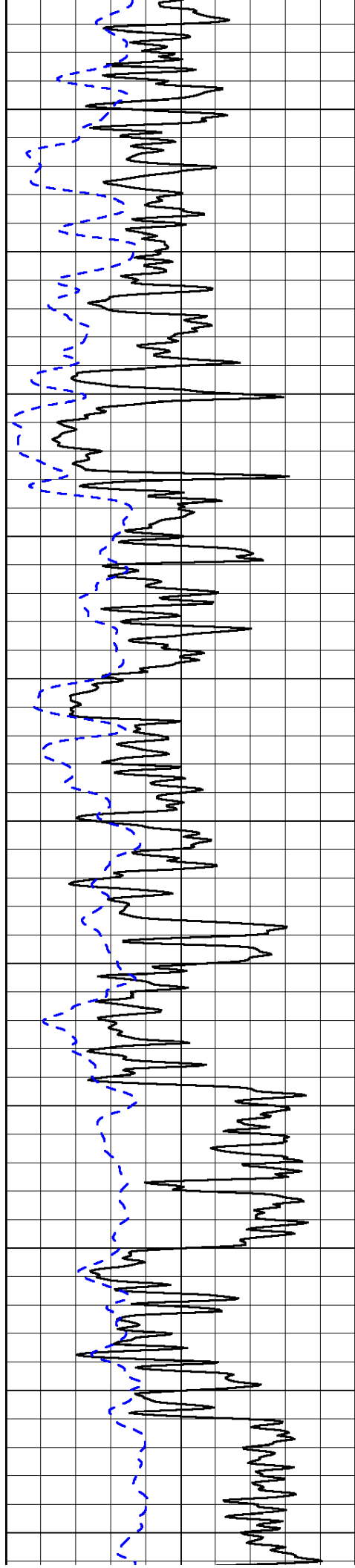
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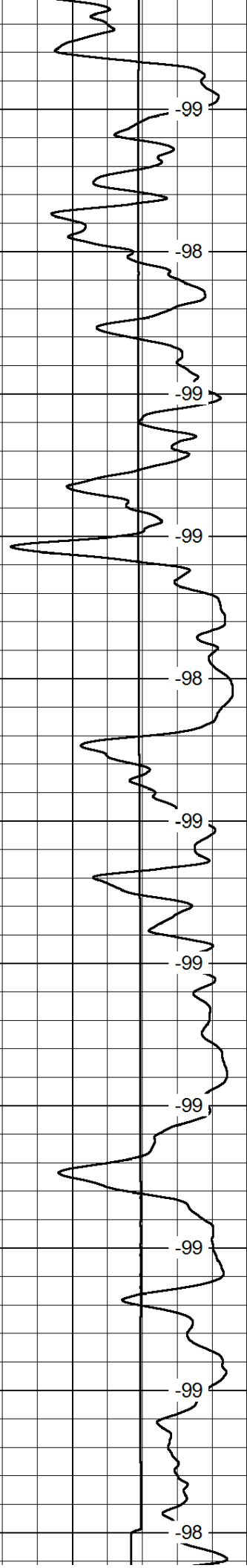
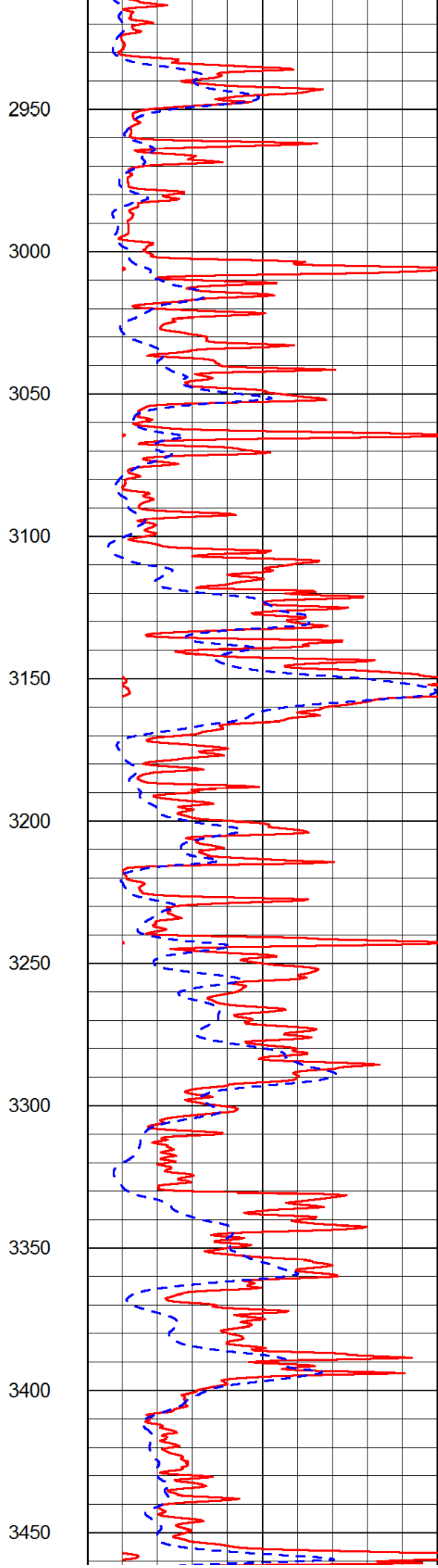
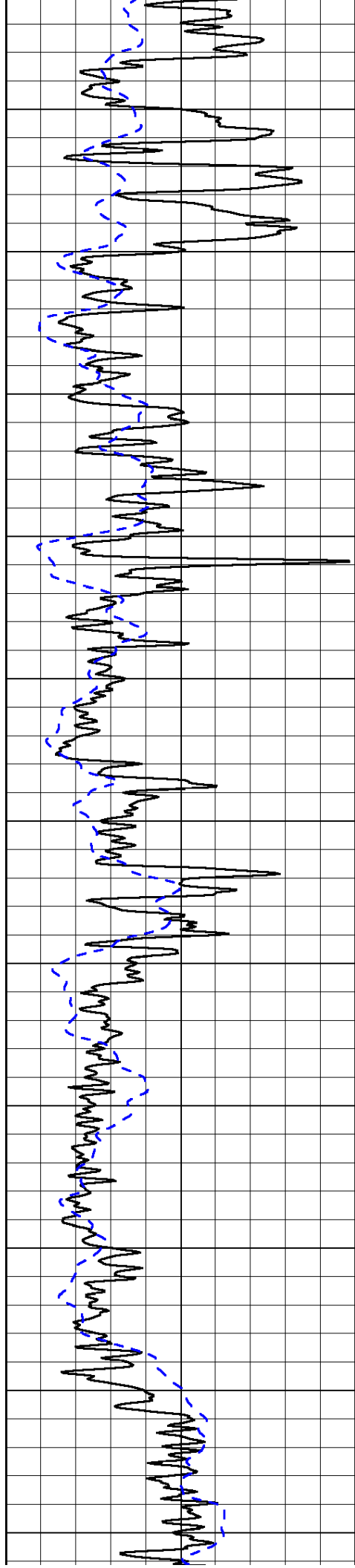


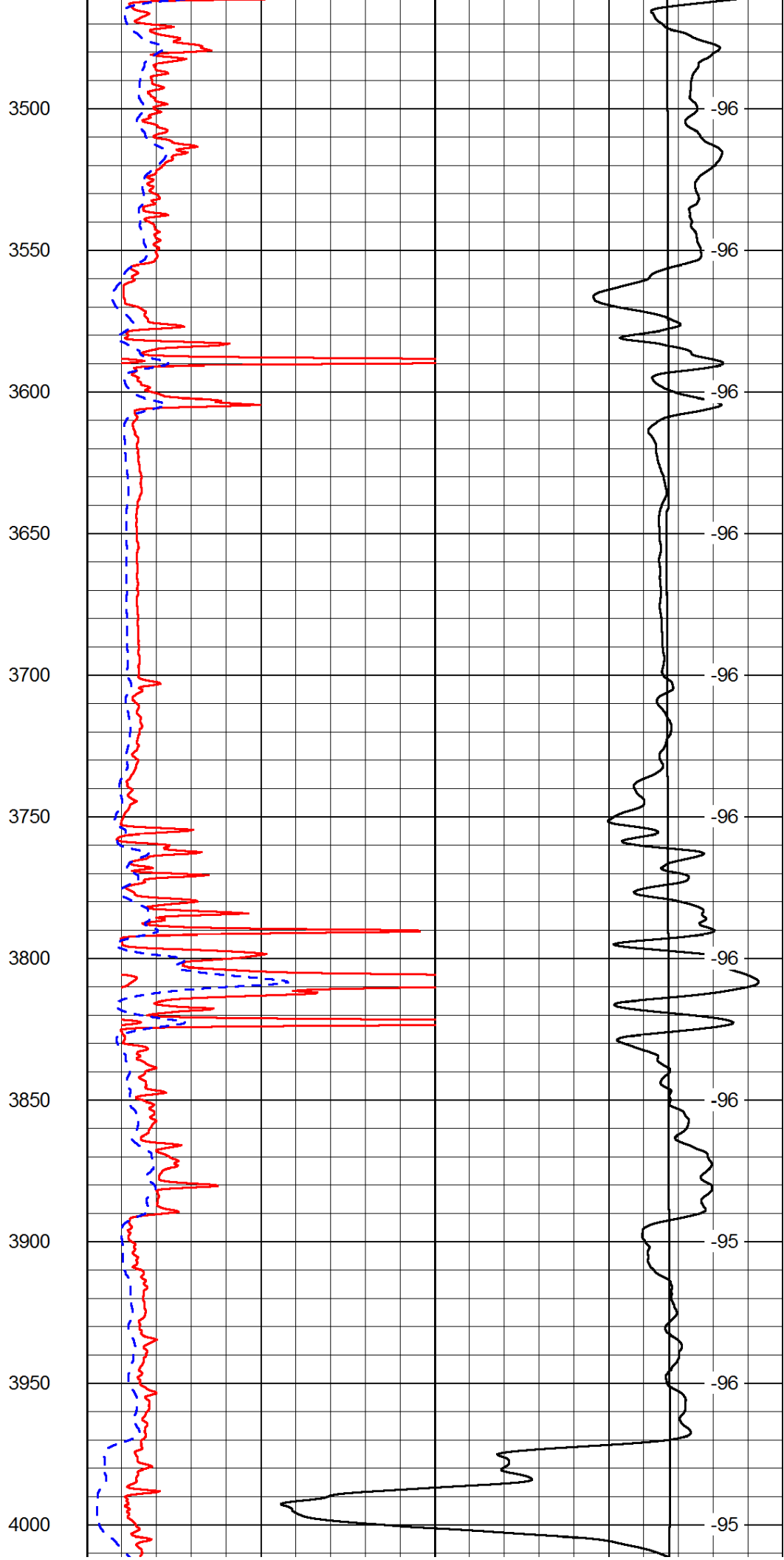
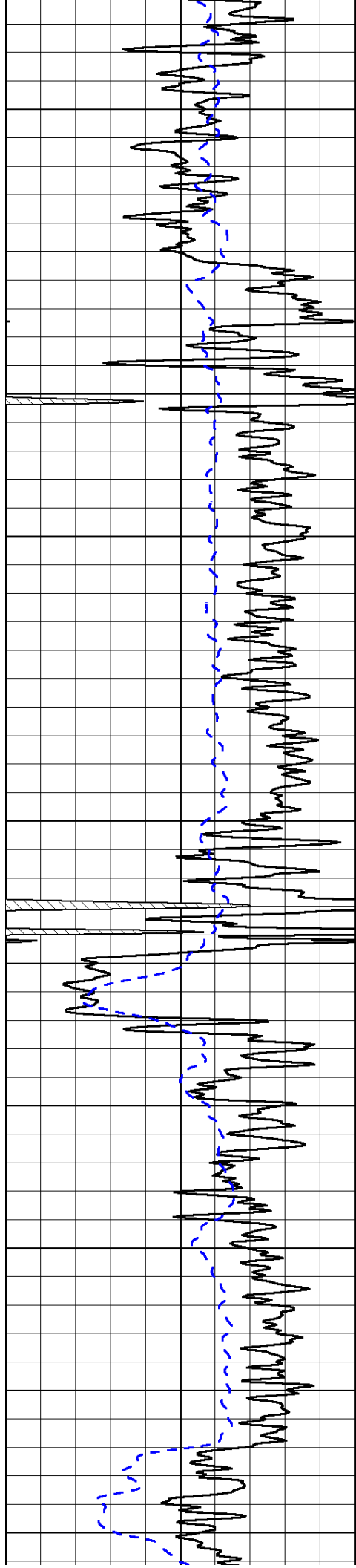


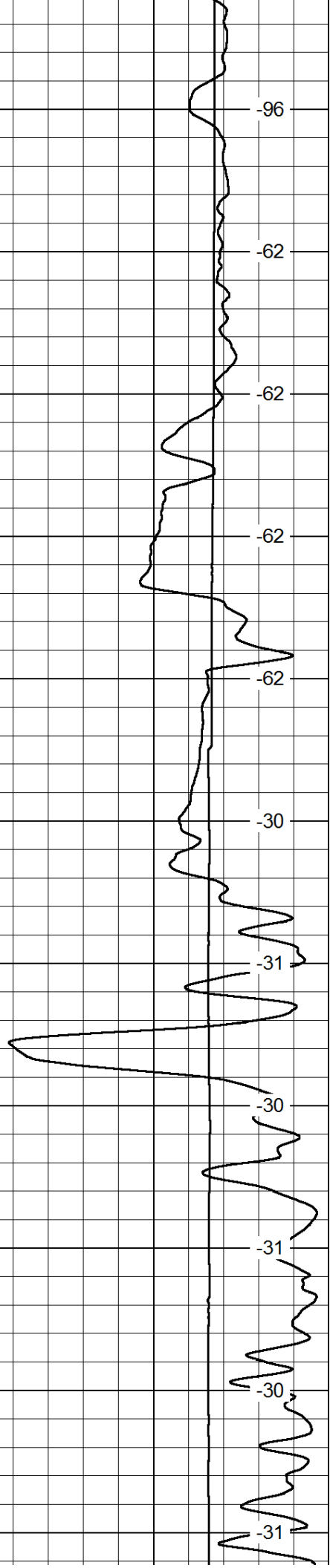
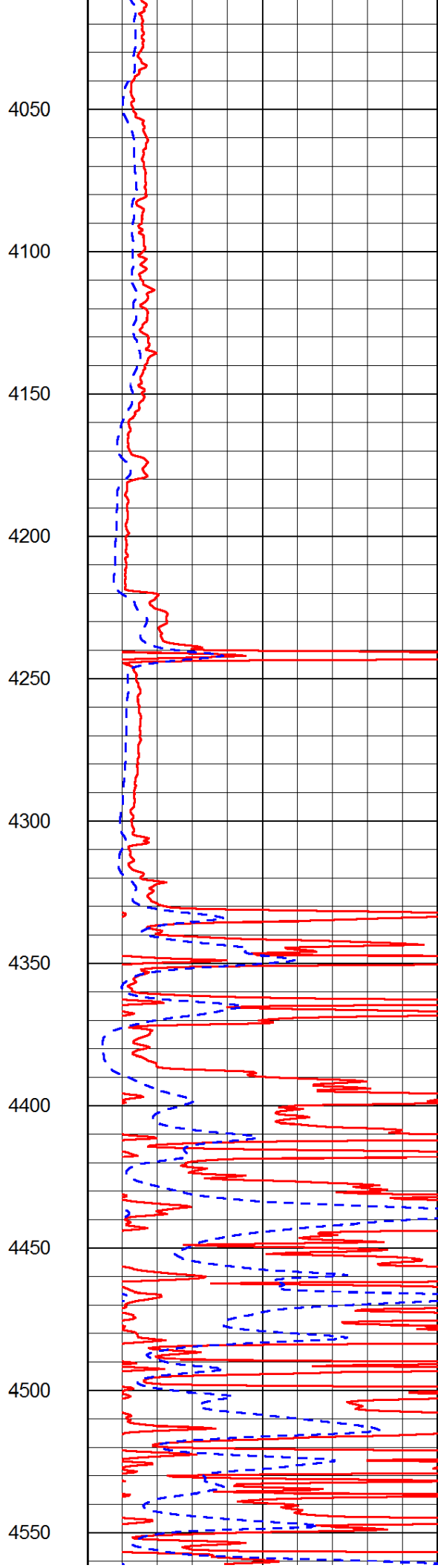
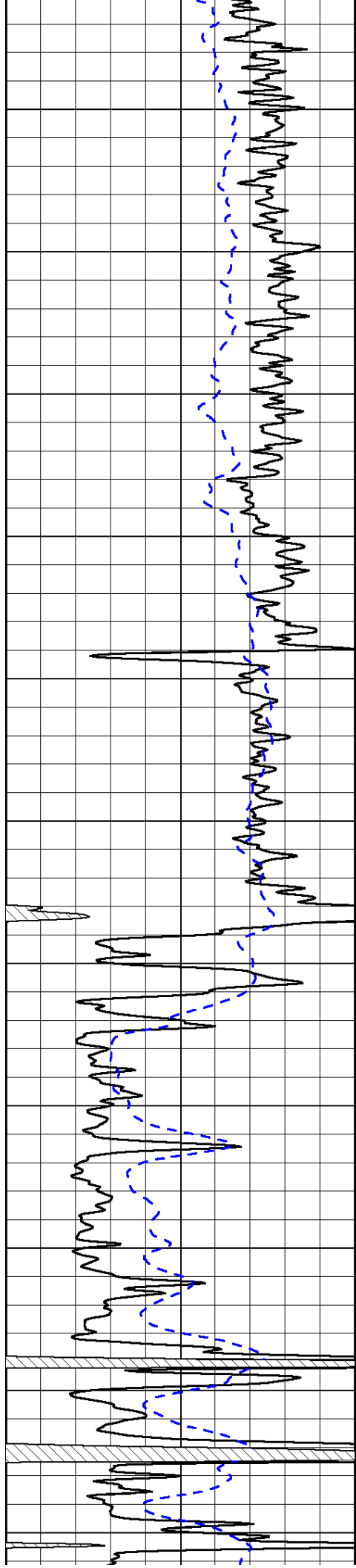


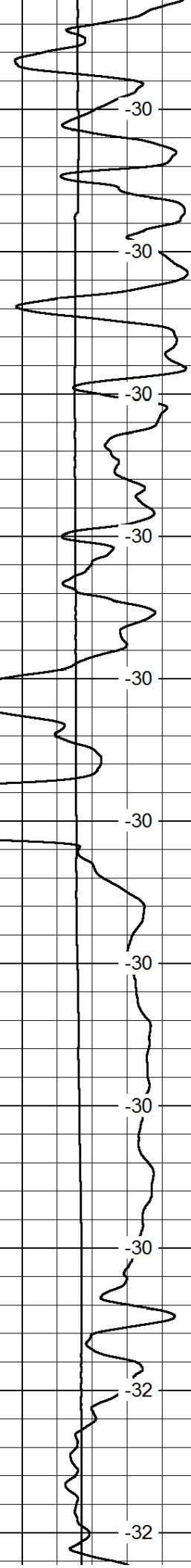
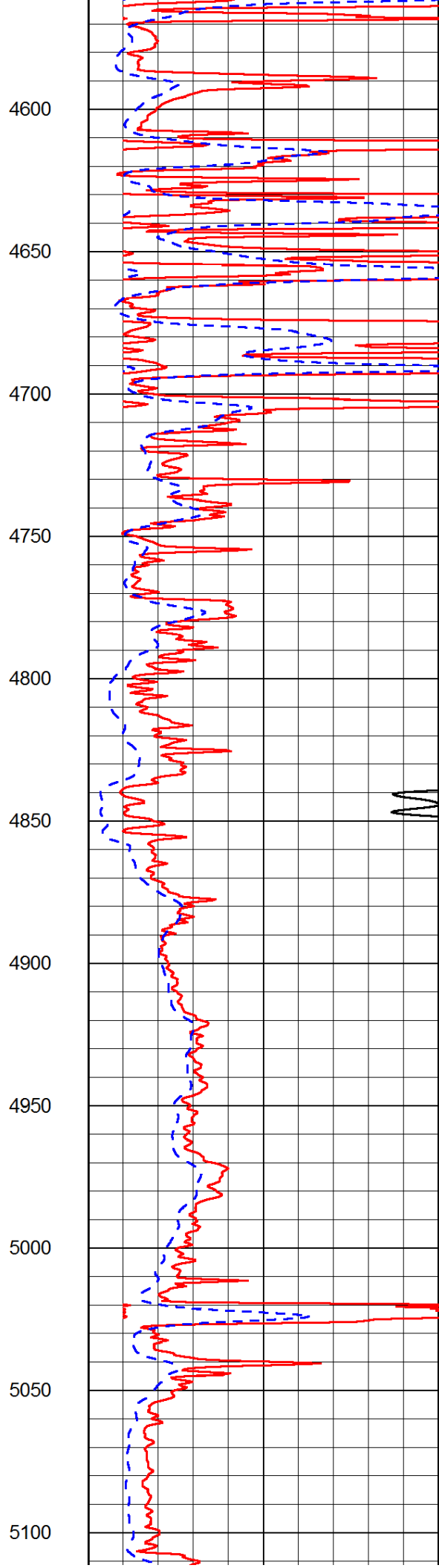
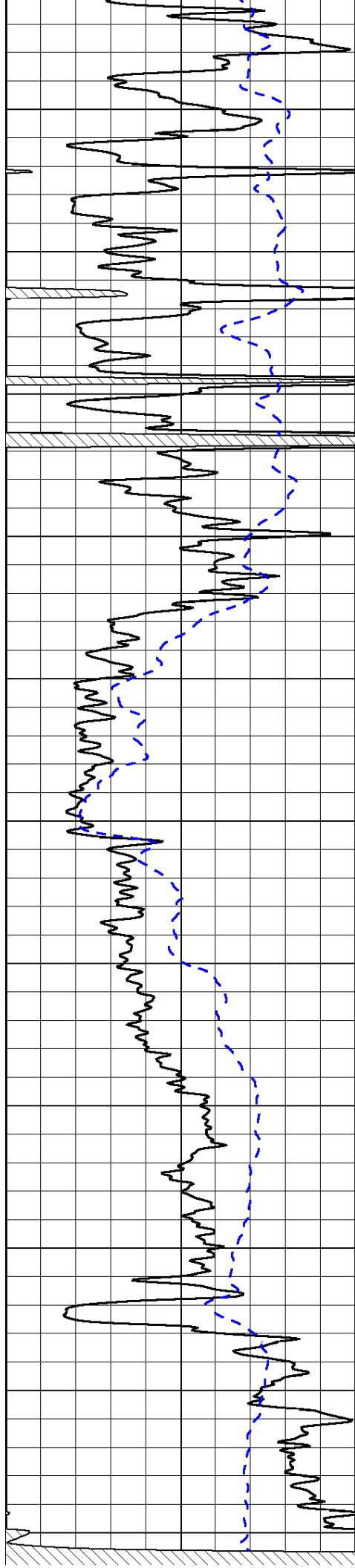


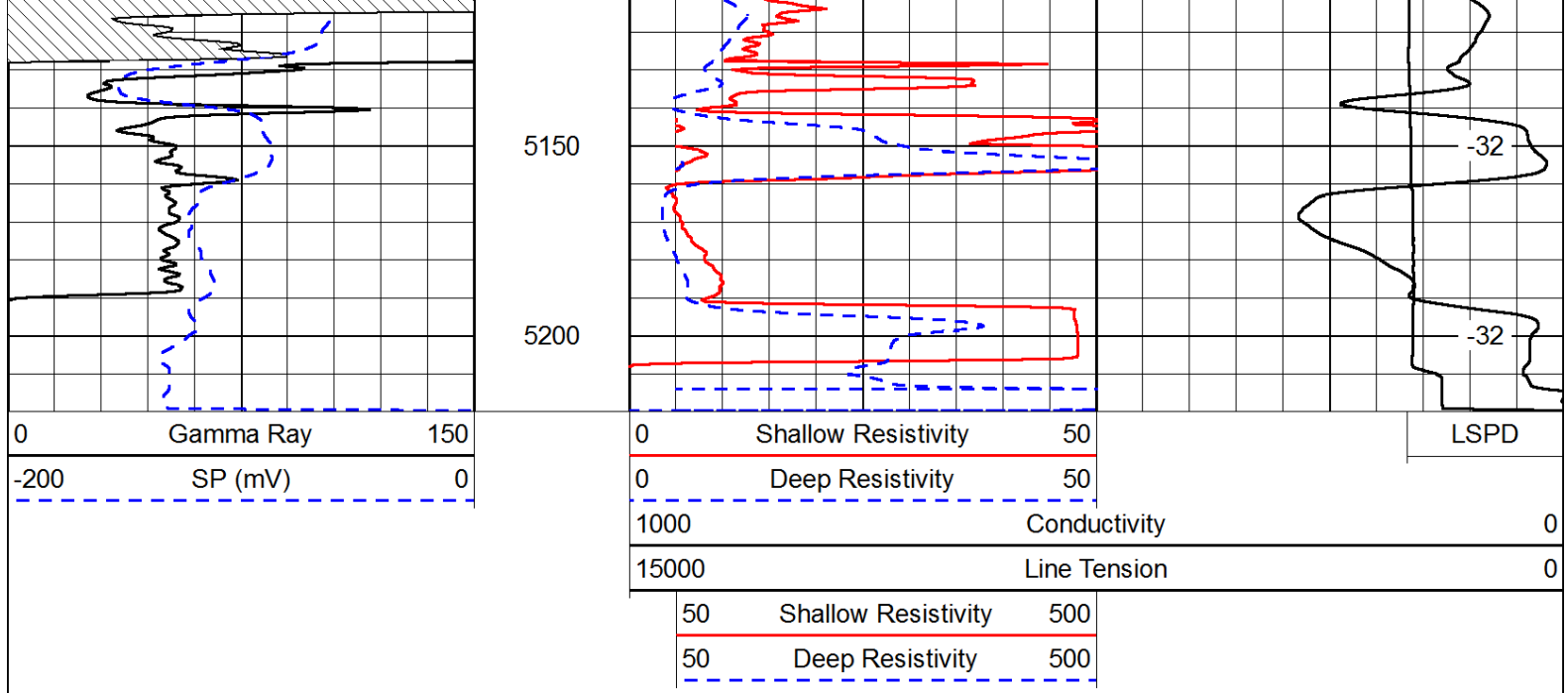




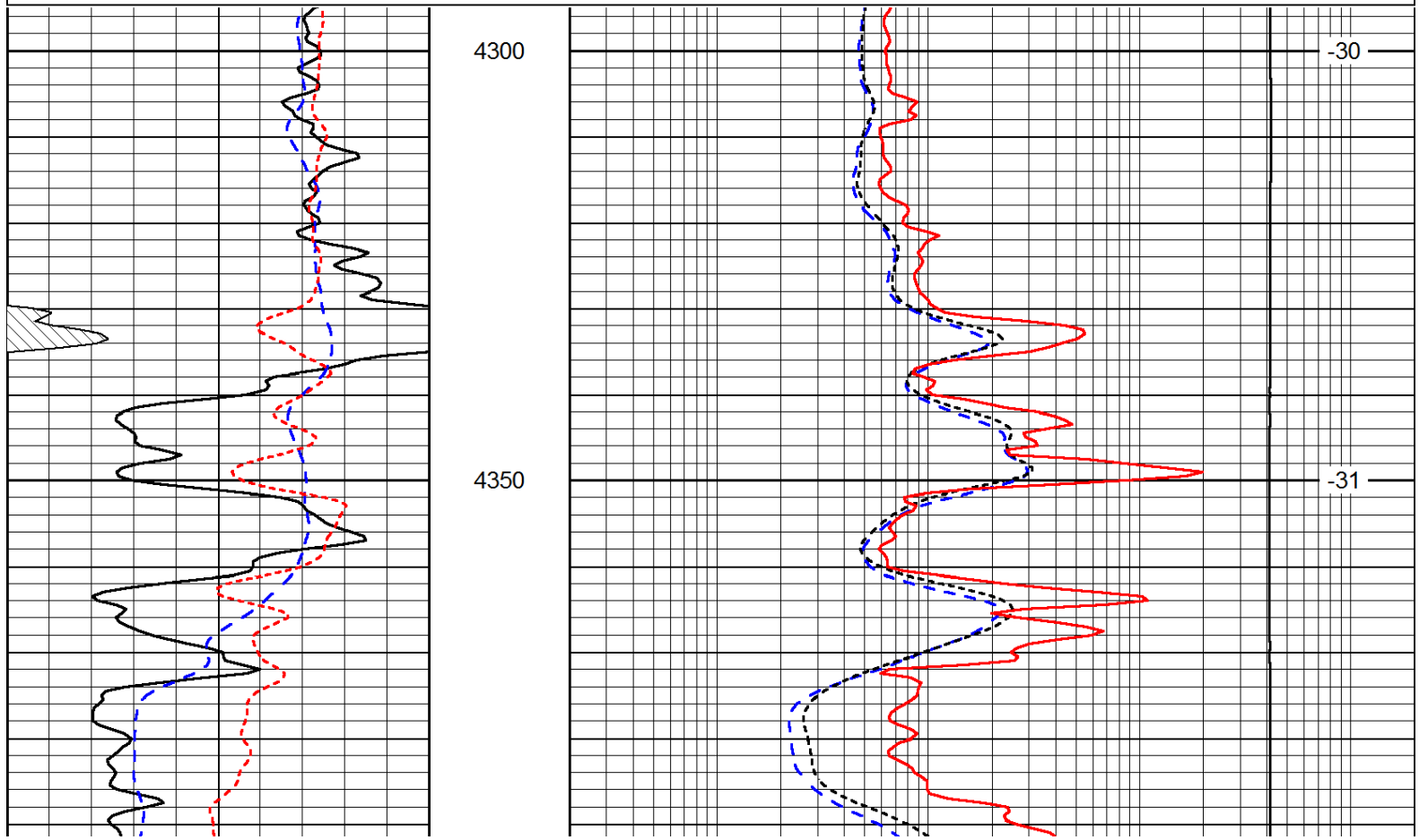
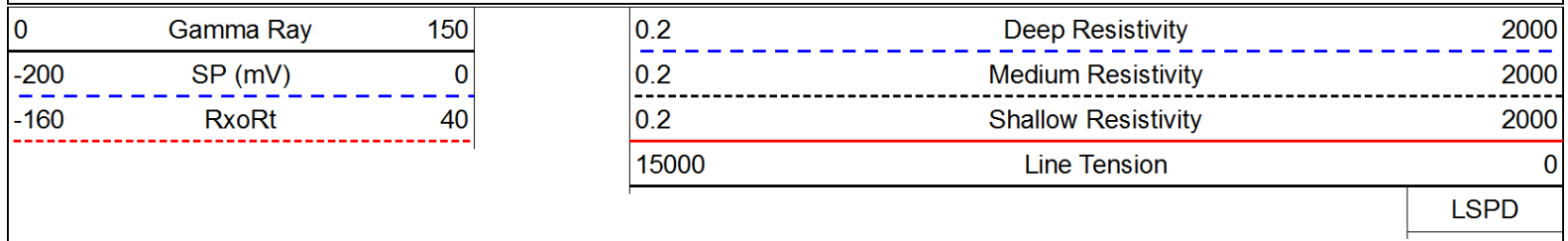


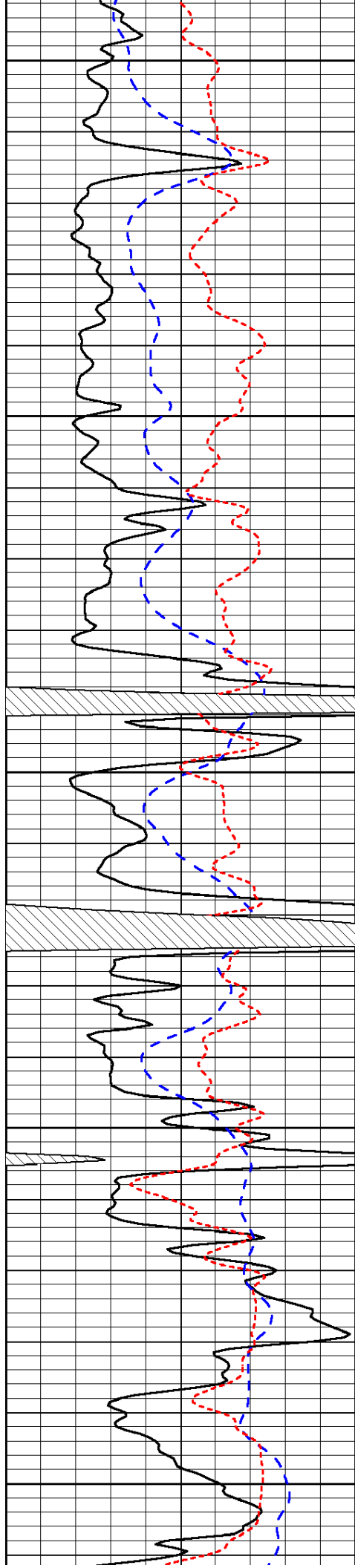






Database File: c:\warrior\data\indian oil_blackstock #3\indian_blackstock_3hd.db
Dataset Pathname: DIL/indstk
Presentation Format: dil
Dataset Creation: Sun May 18 14:46:06 2014
Charted by: Depth in Feet scaled 1:240





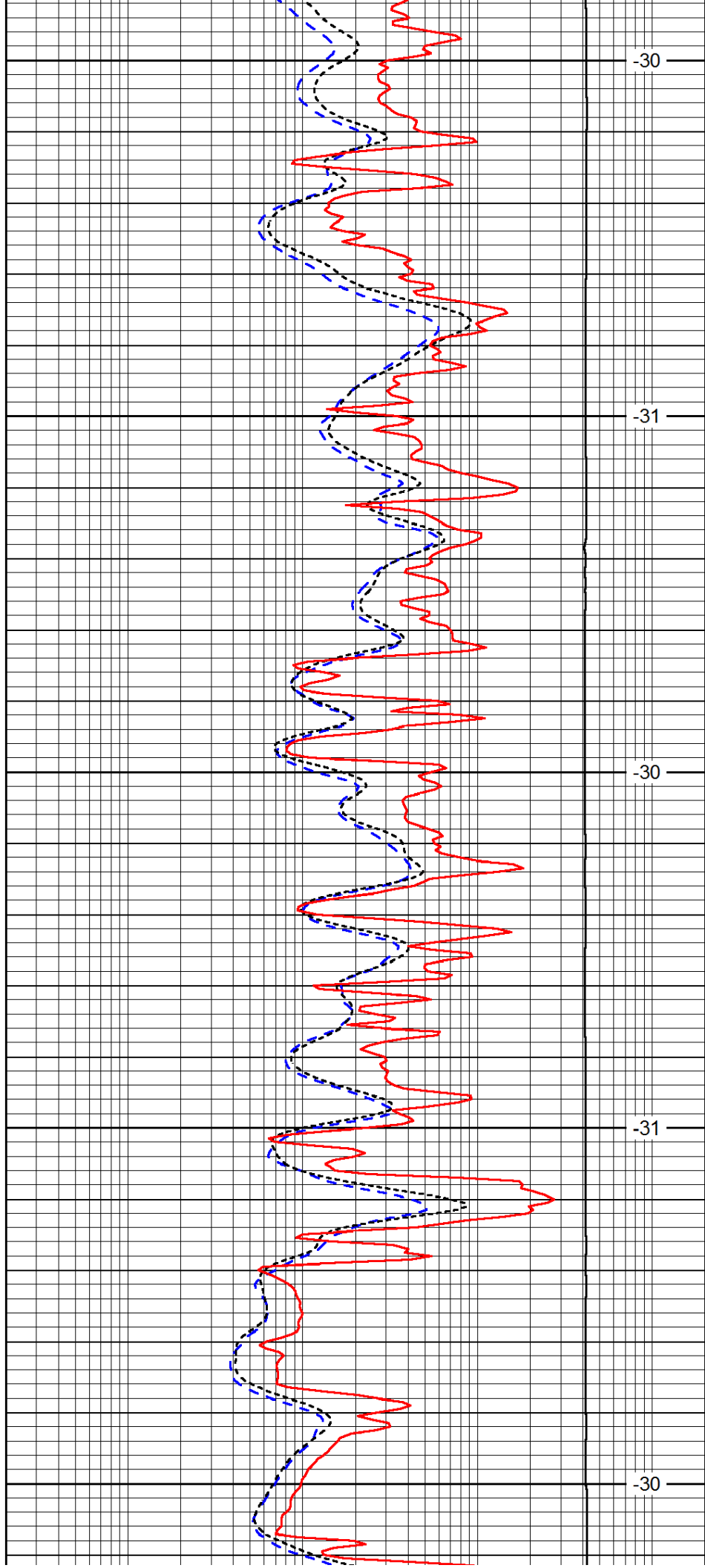
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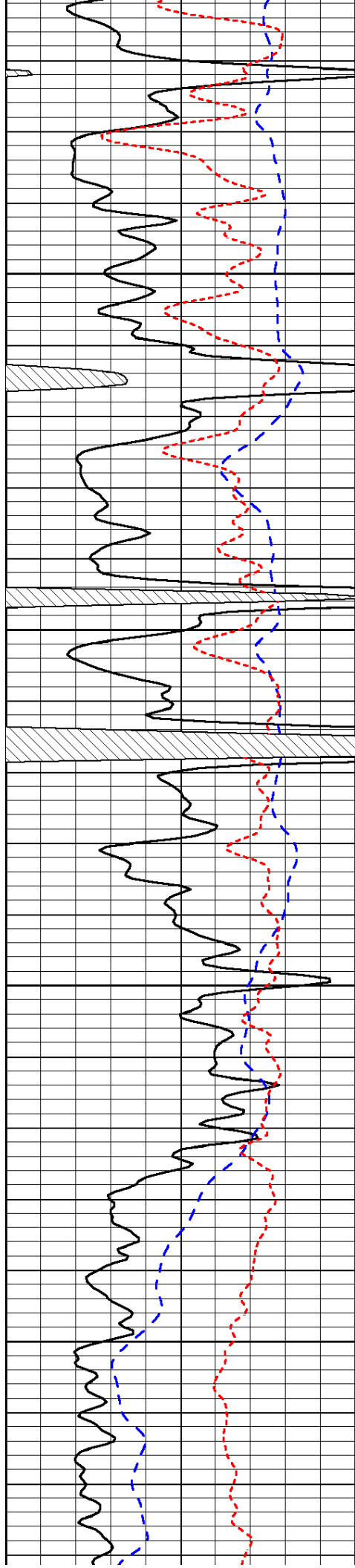
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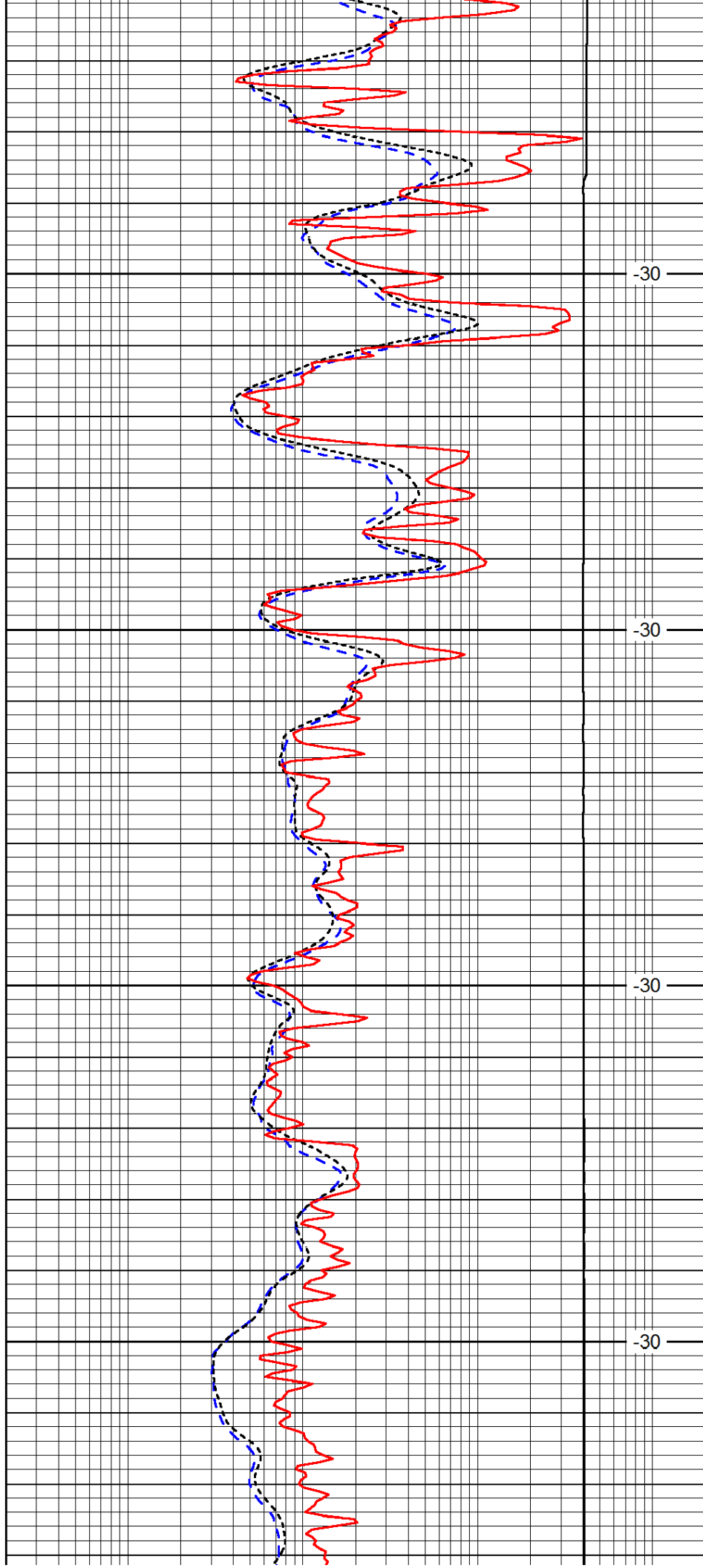


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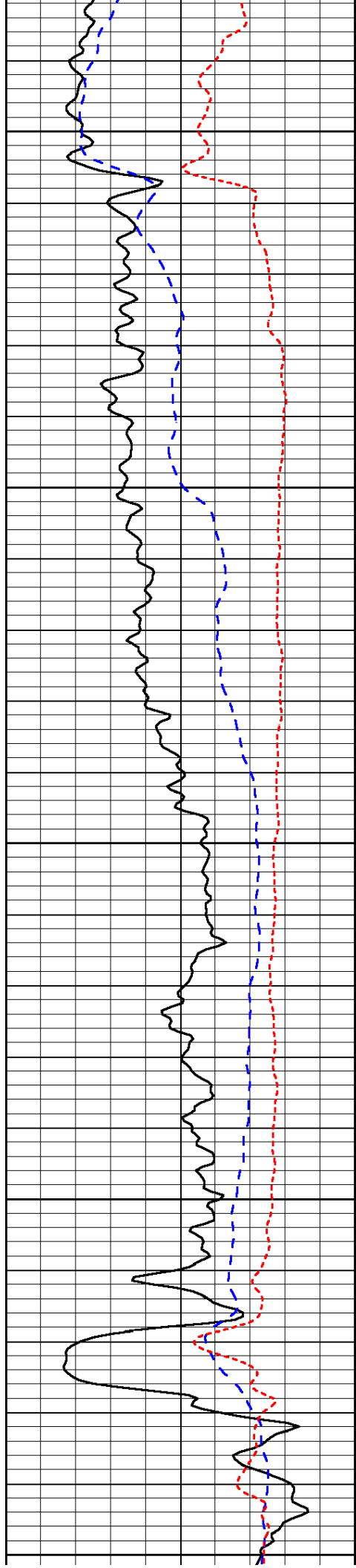


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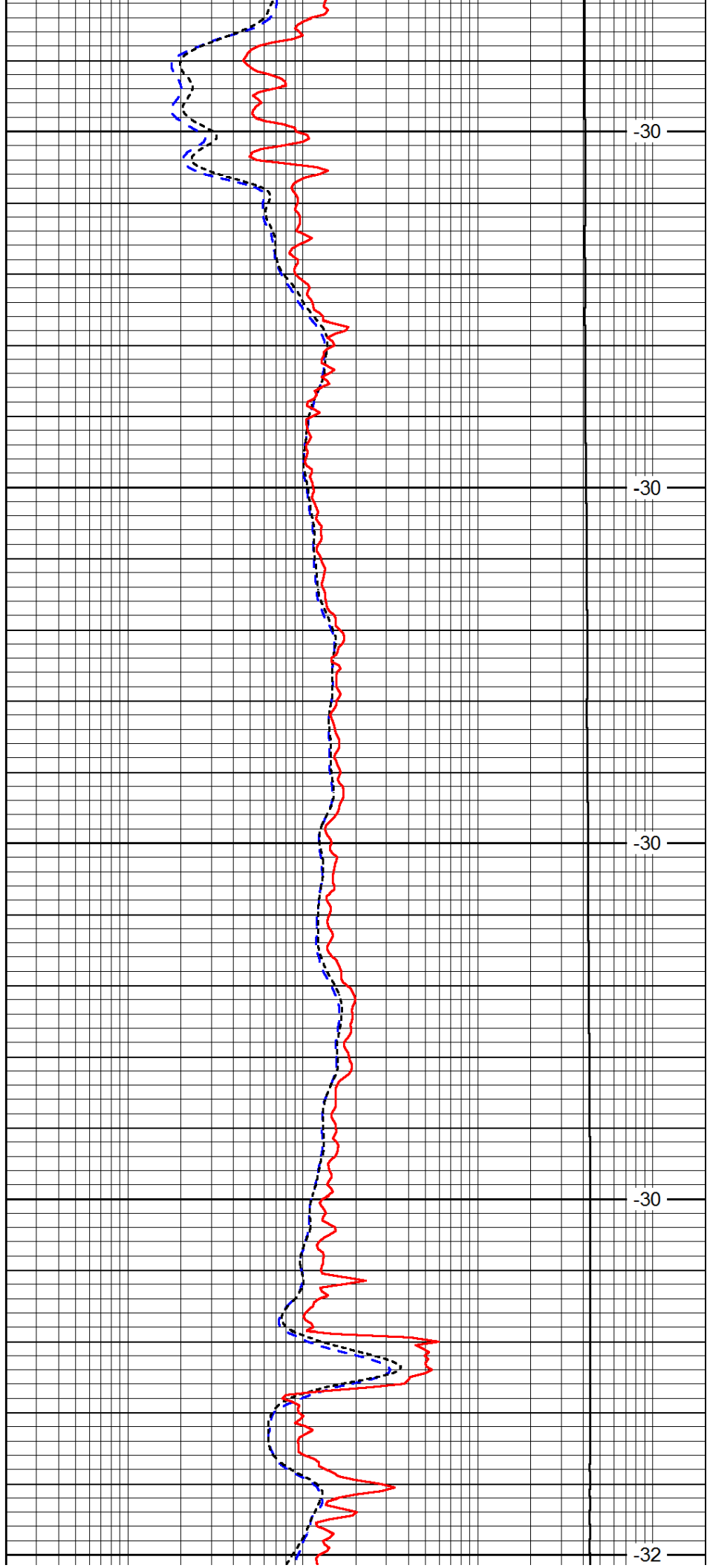
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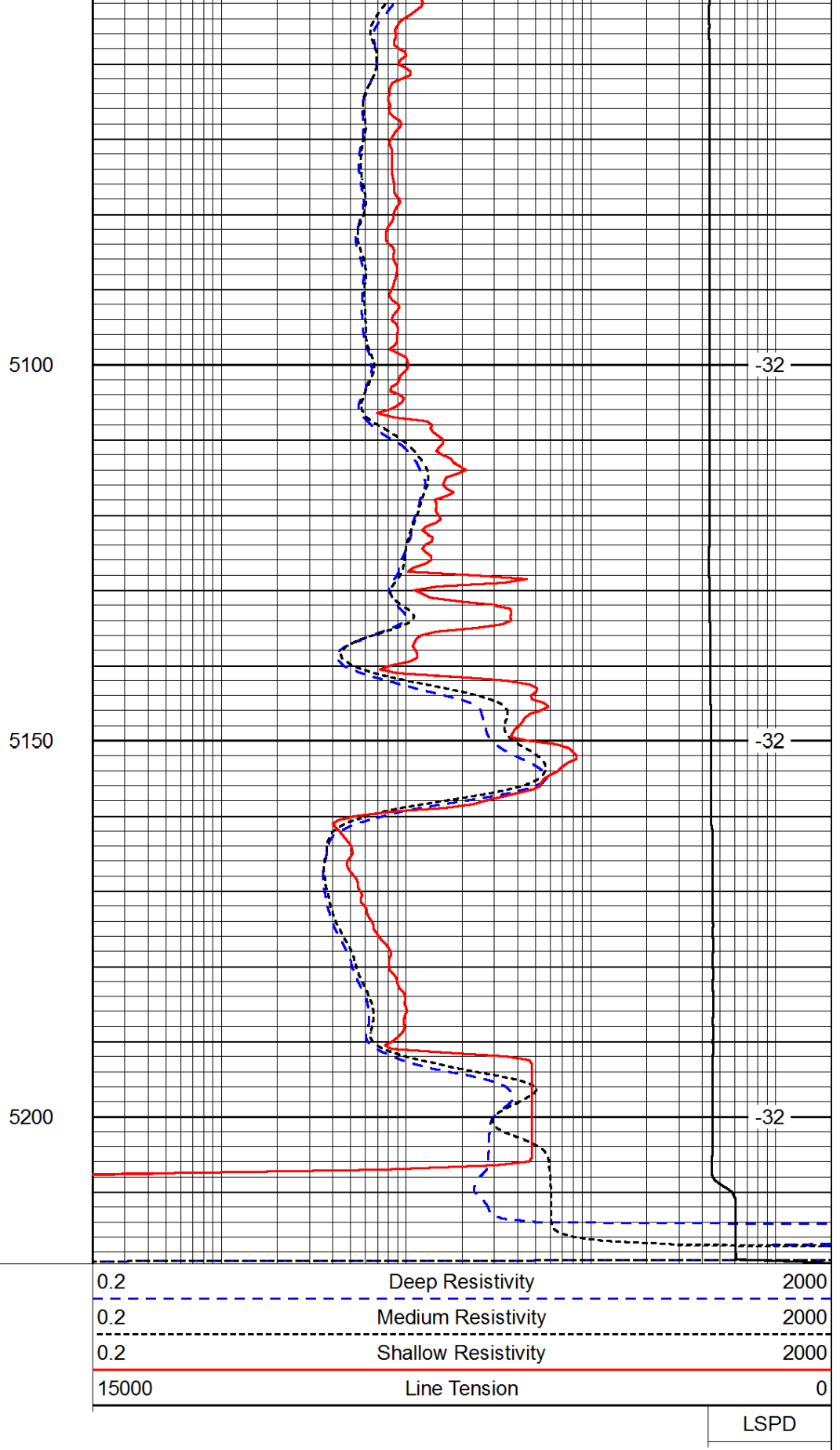
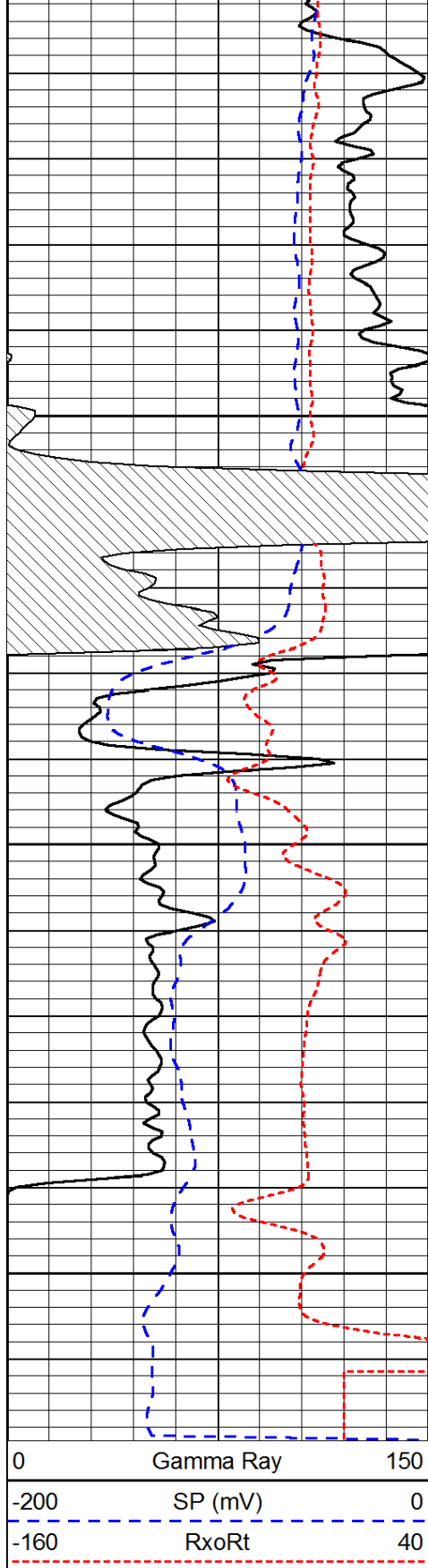
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LSPD