



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.		Company Larson Engineering, Inc.	
15-101-22,226-00-00		Well Joyce No. 1-17	
Field Hiney		County Lane State Kansas	
Location 273' FNL & 2000' FWL		Other Services CNL/CDL MEL	
Sec: 17 Twp: 19 S Rge: 28 W		Elevation	
Permanent Datum Ground Level		K.B. 2784	
Log Measured From Kelly Bushing		D.F. 2777	
Drilling Measured From Kelly Bushing		G.L. 2777	
Date	5/13/2010		
Run Number	One		
Depth Driller	4670		
Depth Logger	4668		
Bottom Logged Interval	4667		
Top Log Interval	250		
Casing Driller	8.625 @ 261		
Casing Logger	259		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2,500		
Density / Viscosity	9.2 53		
pH / Fluid Loss	9.5 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.2 @ 65		
Rmf @ Meas. Temp	.9 @ 65		
Rmc @ Meas. Temp	1.62 @ 65		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.63 @ 125		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	125		
Equipment Number	007		
Location	Hays		
Recorded By	K. Bange		
Witnessed By	Bob Lewellyn		

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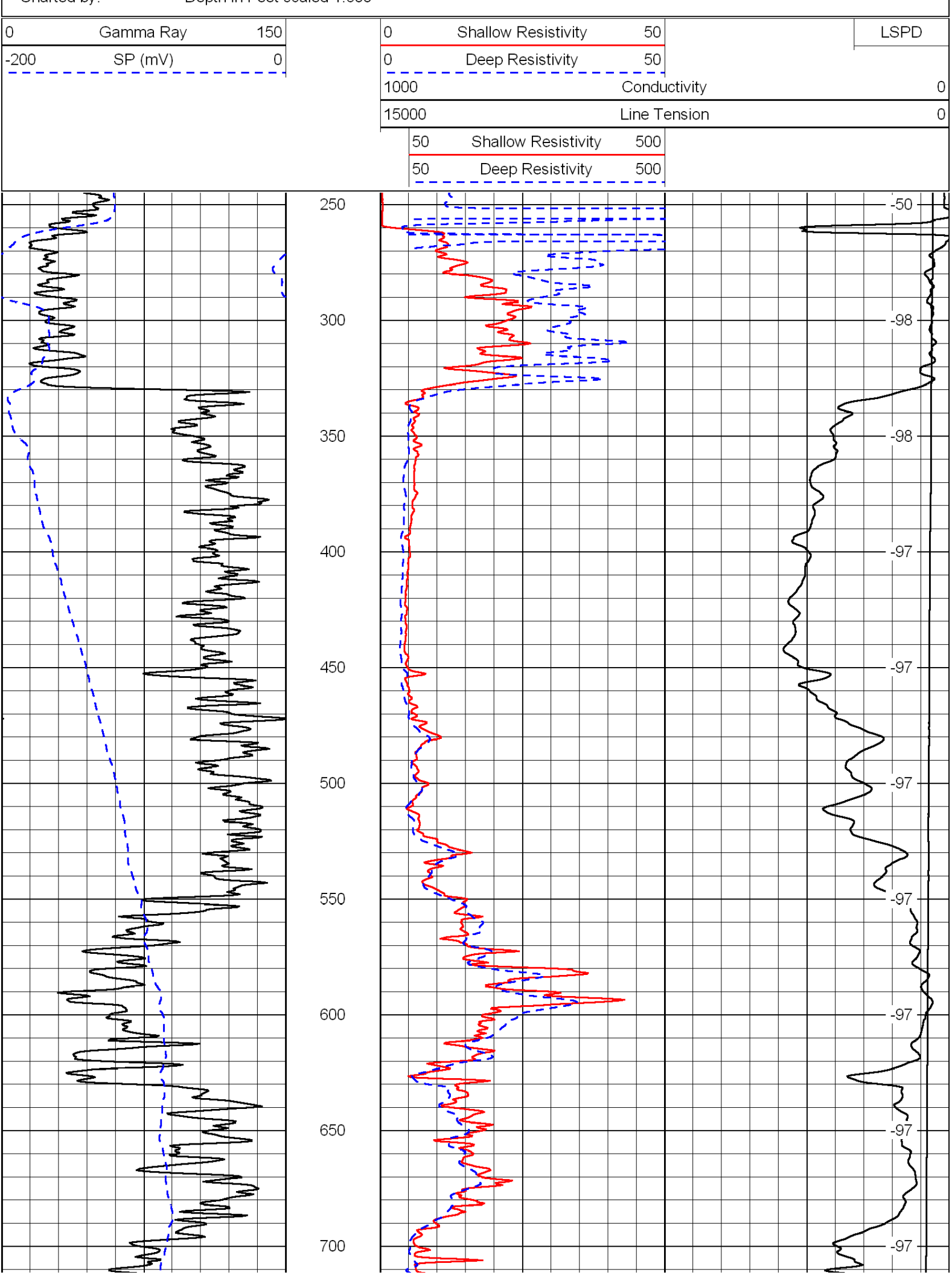
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

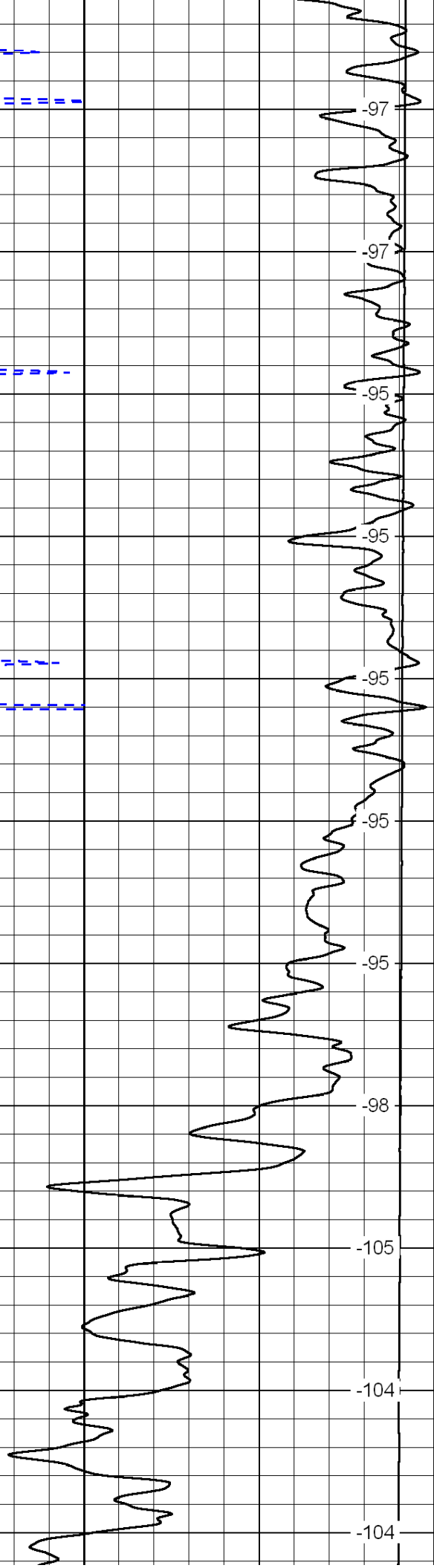
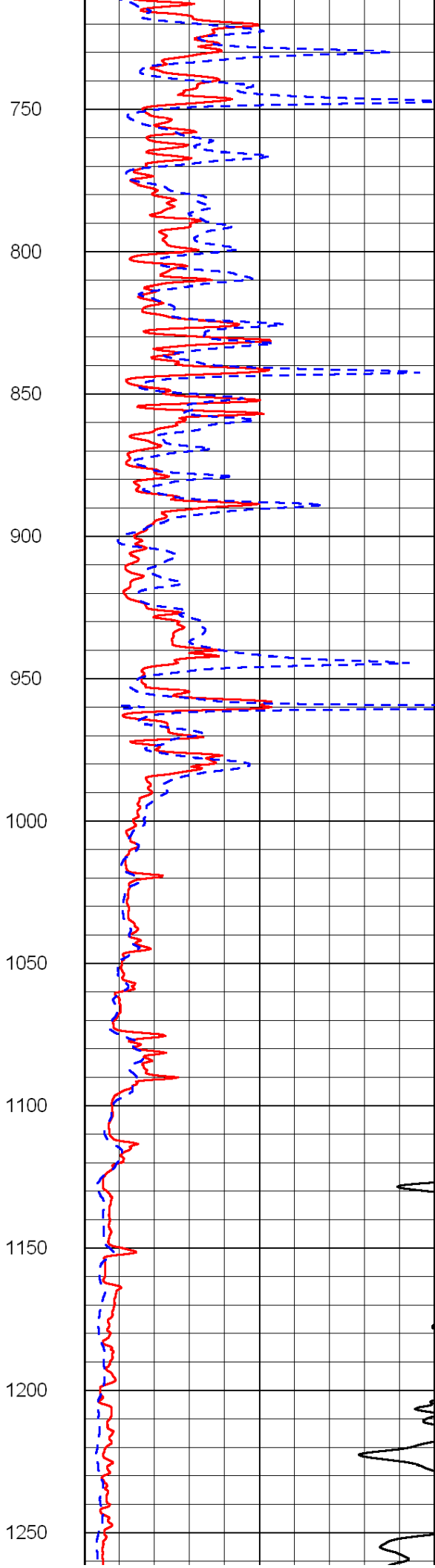
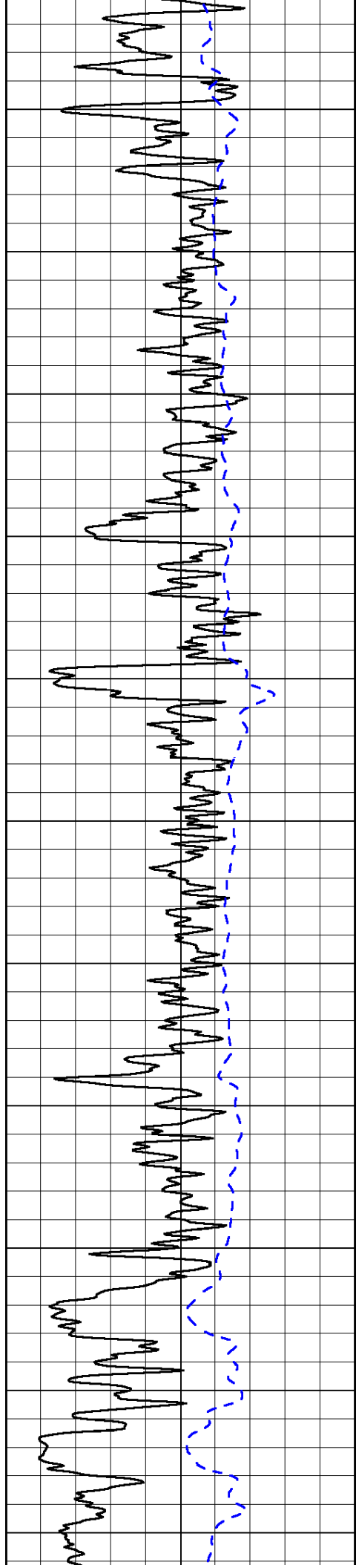
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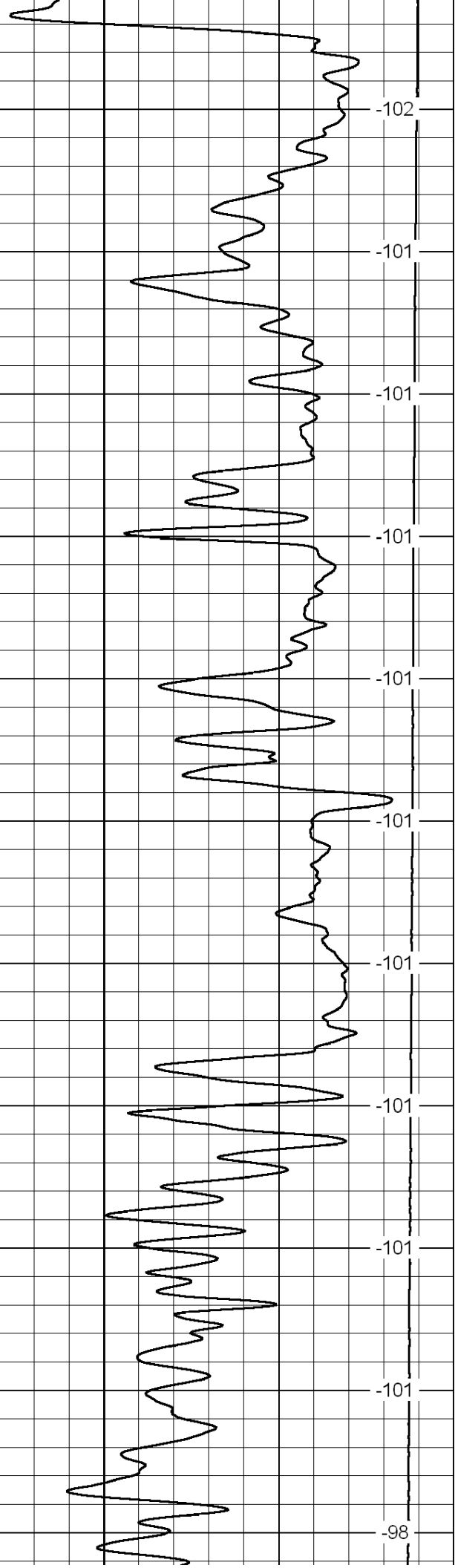
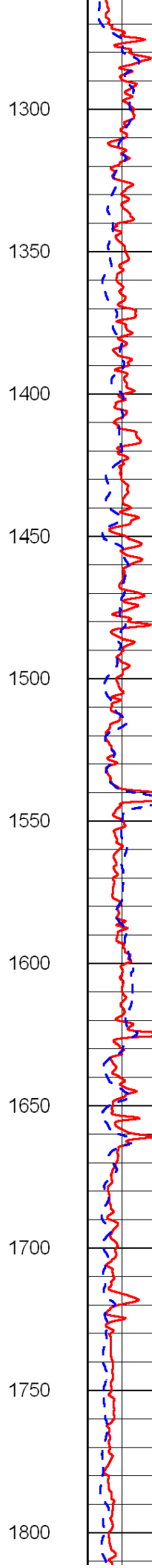
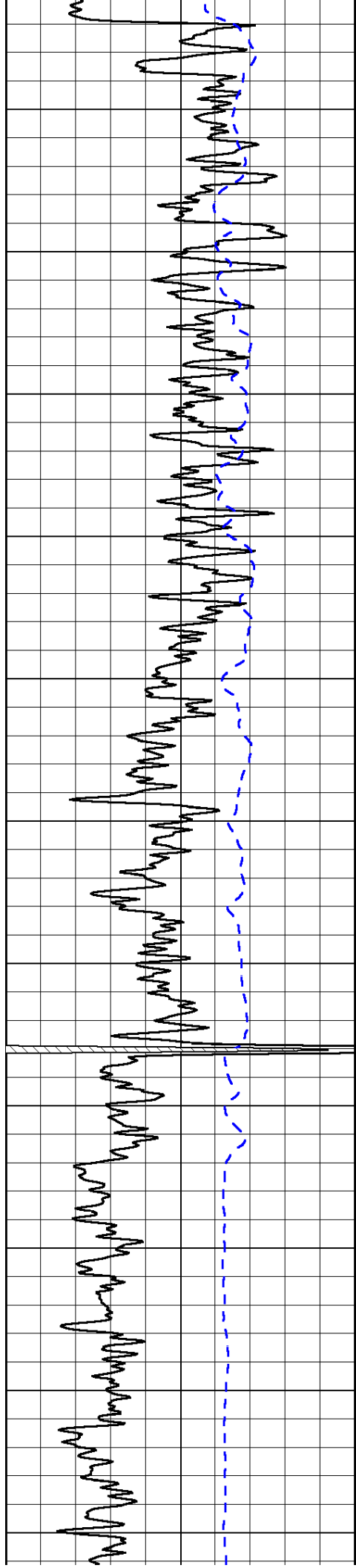
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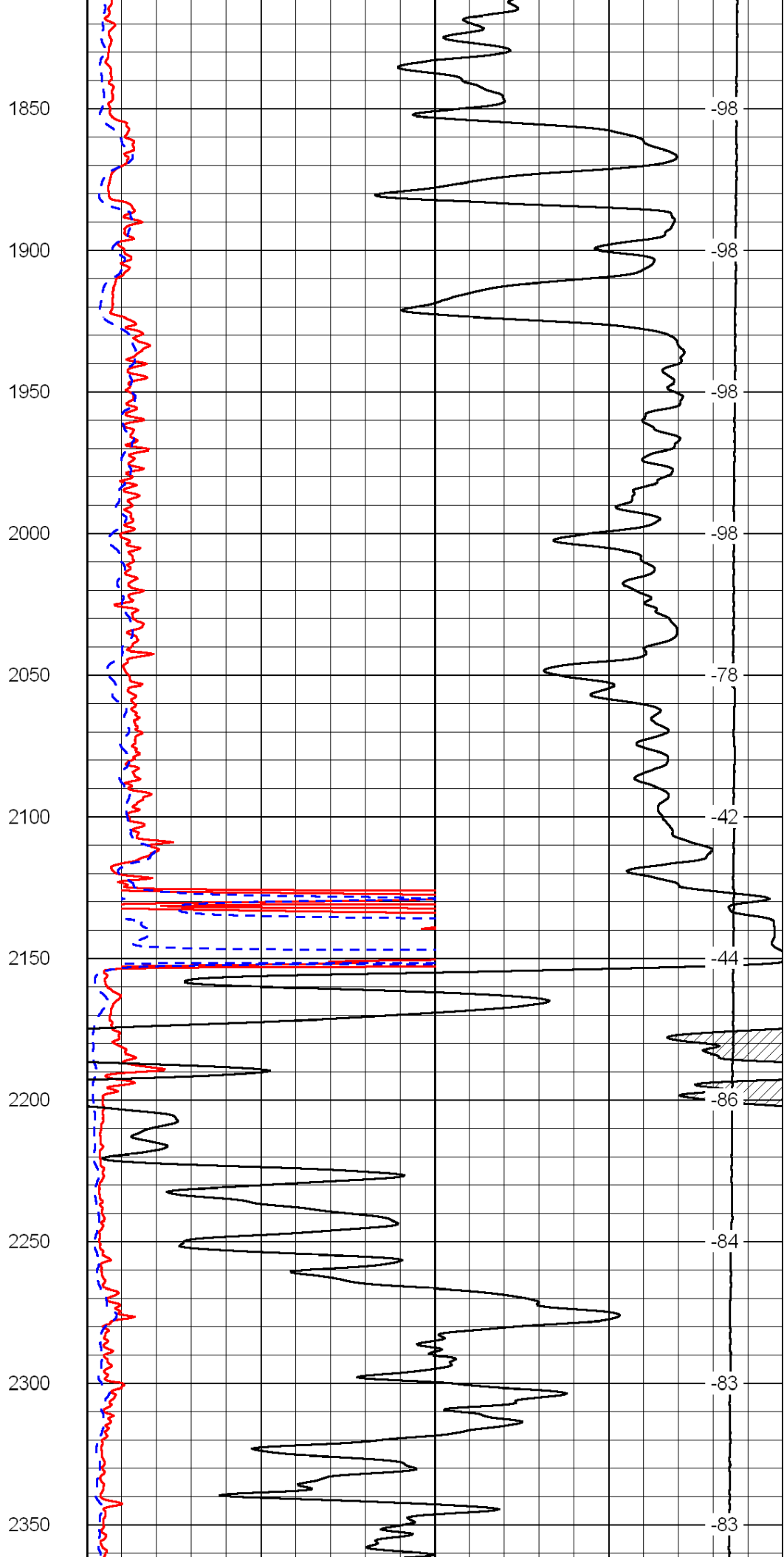
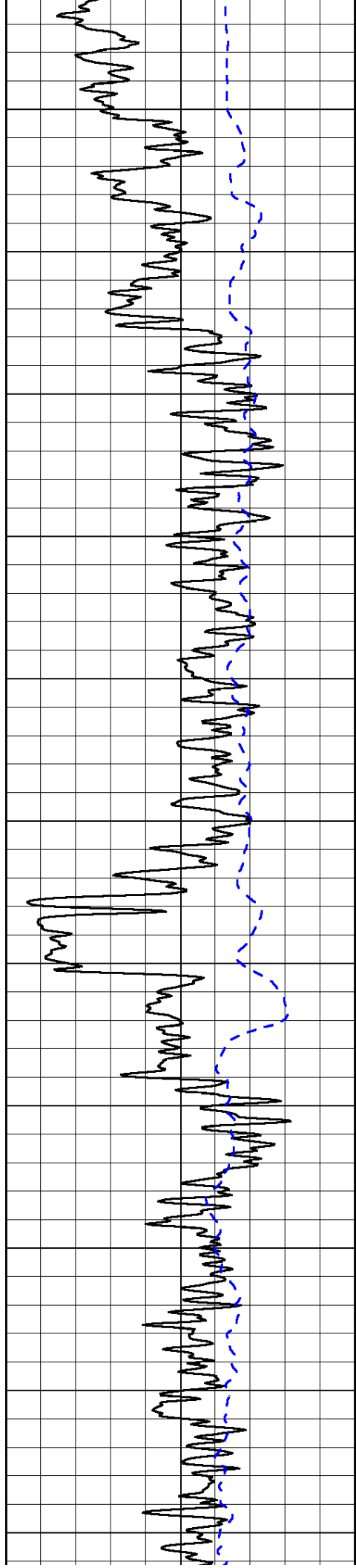
Dighton, 3 S to 120 rd, 1 E, 3 S, E into

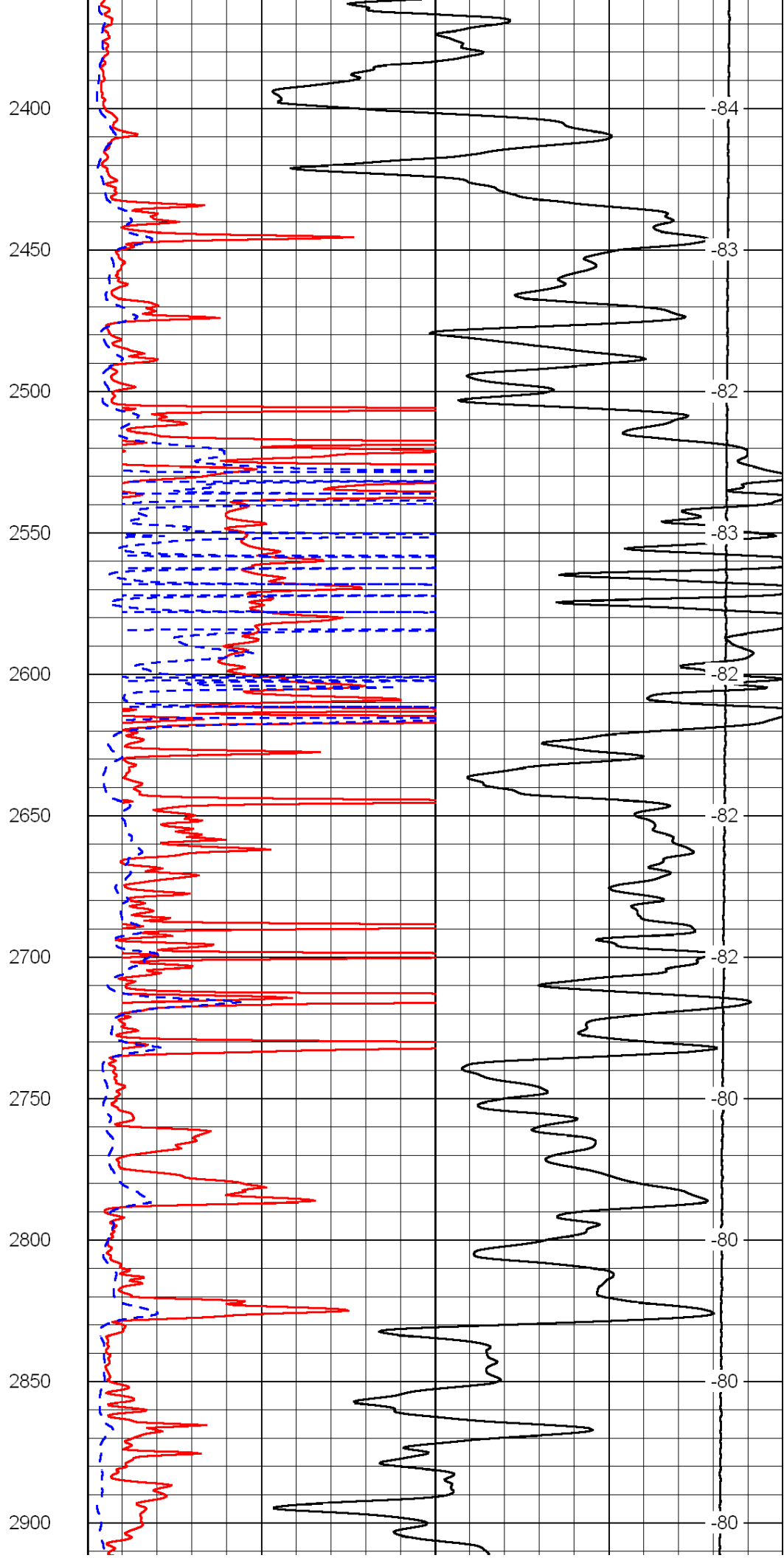
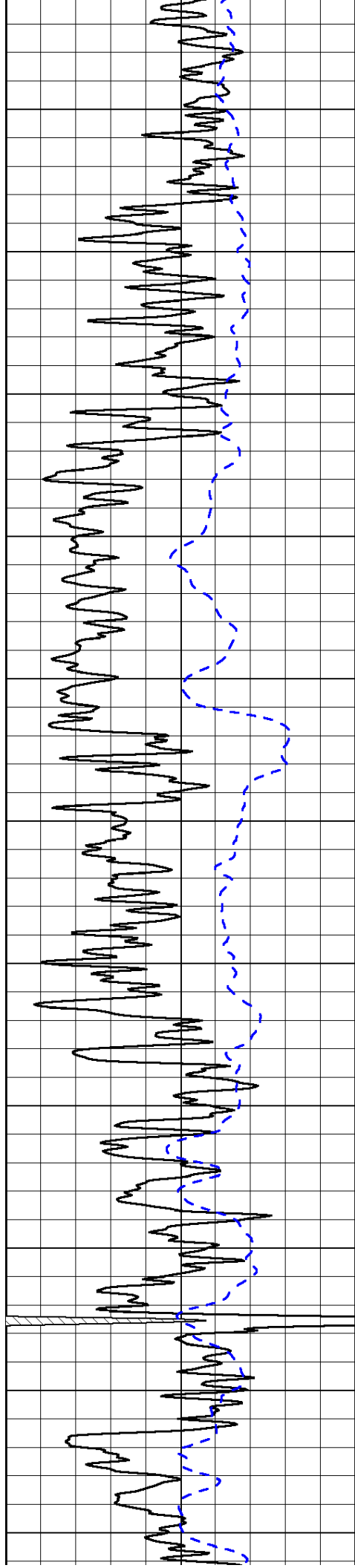
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Charted by: Depth in Feet scaled 1:600

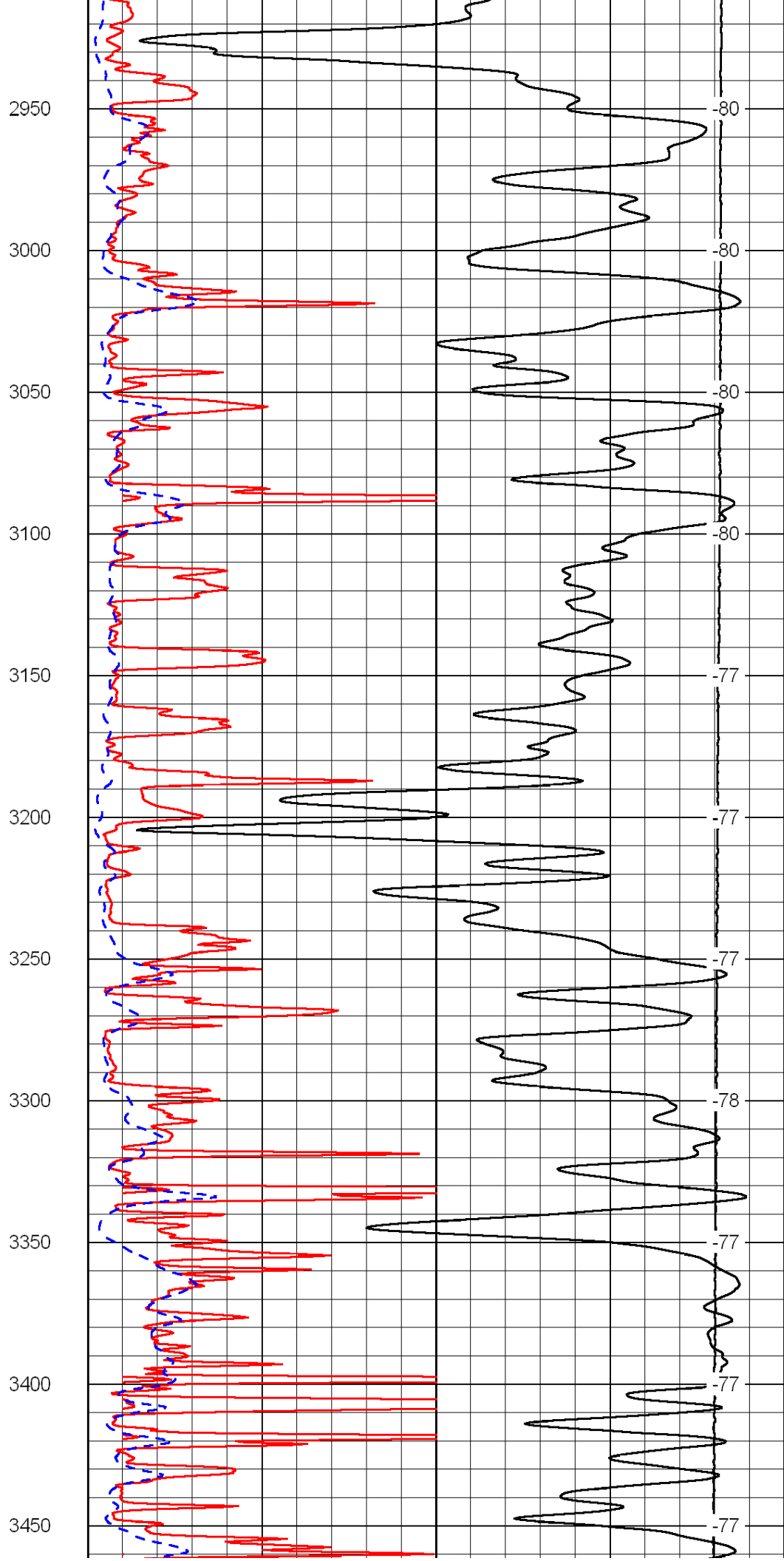
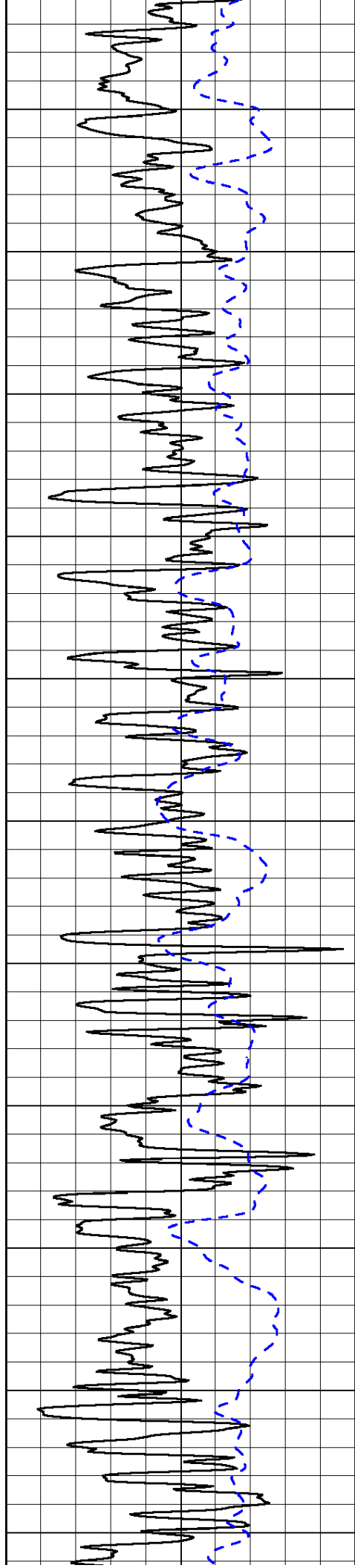


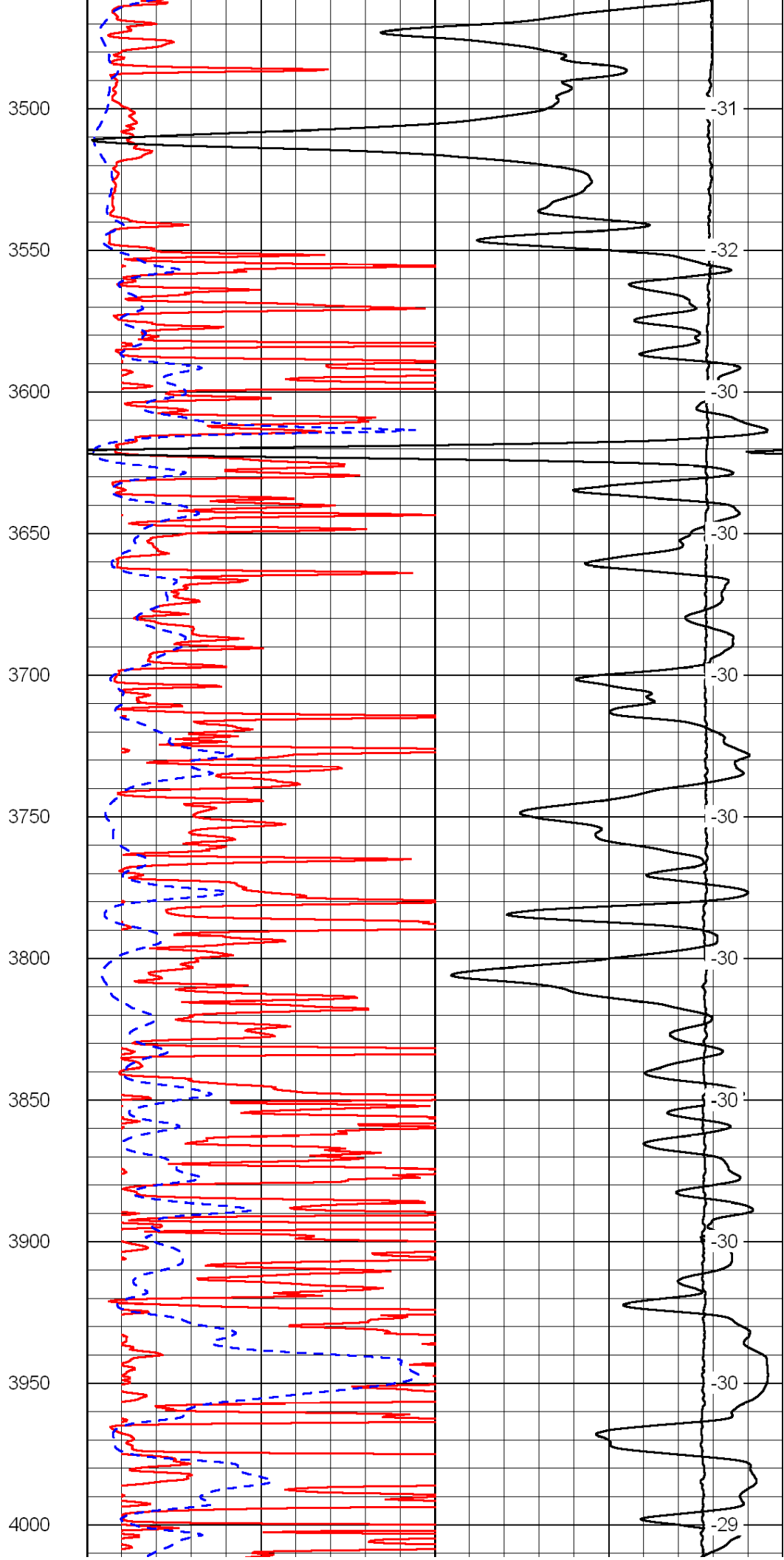
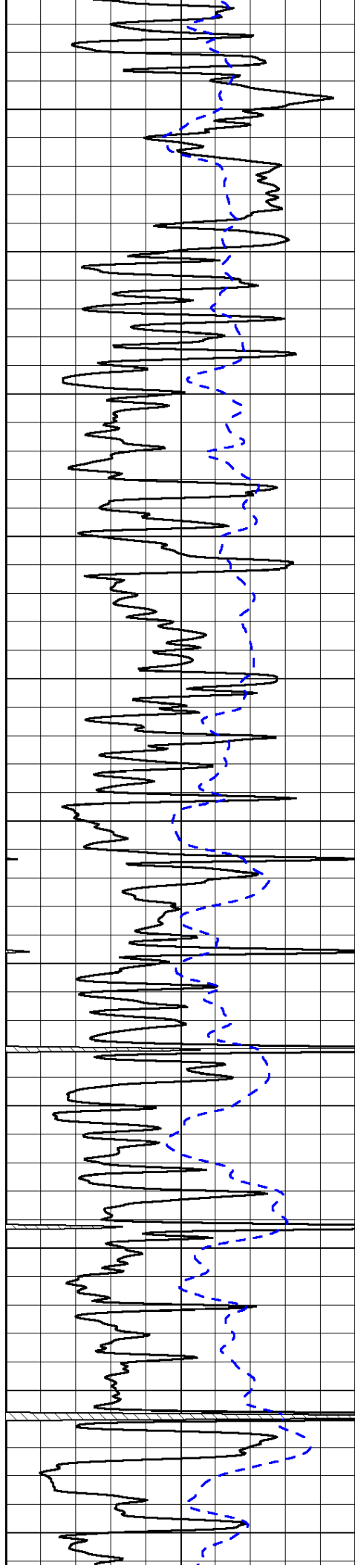


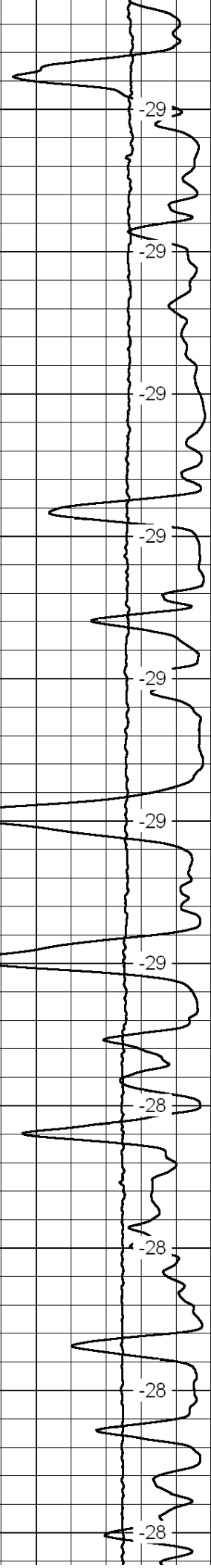
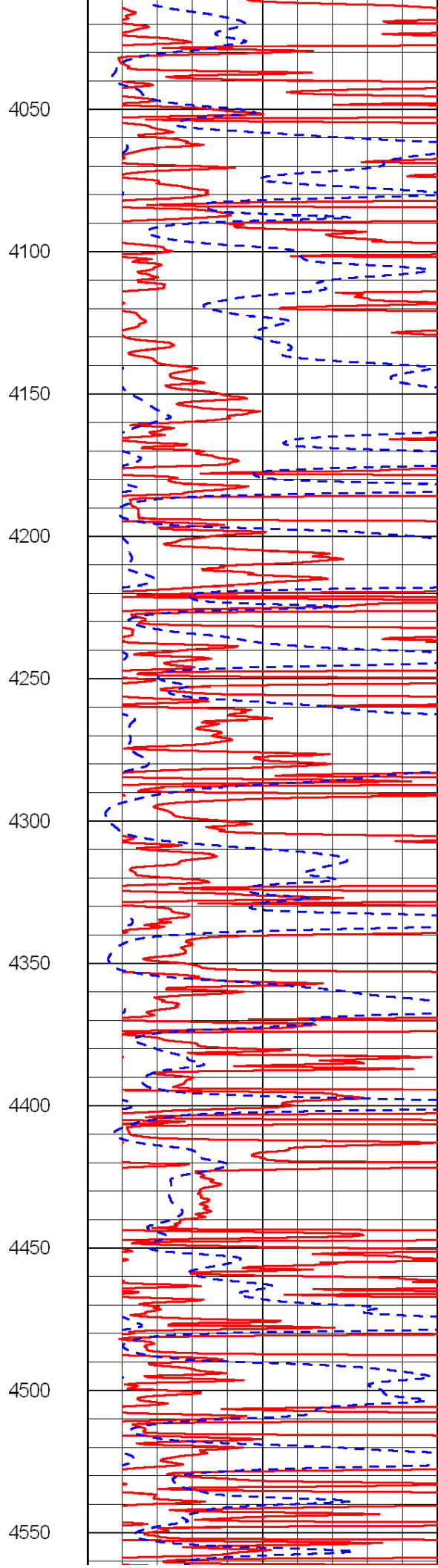
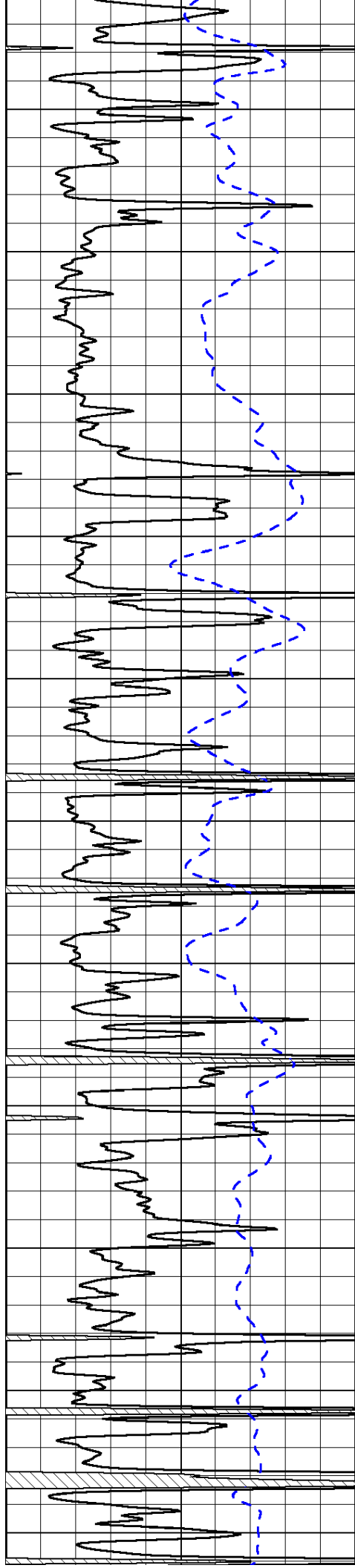


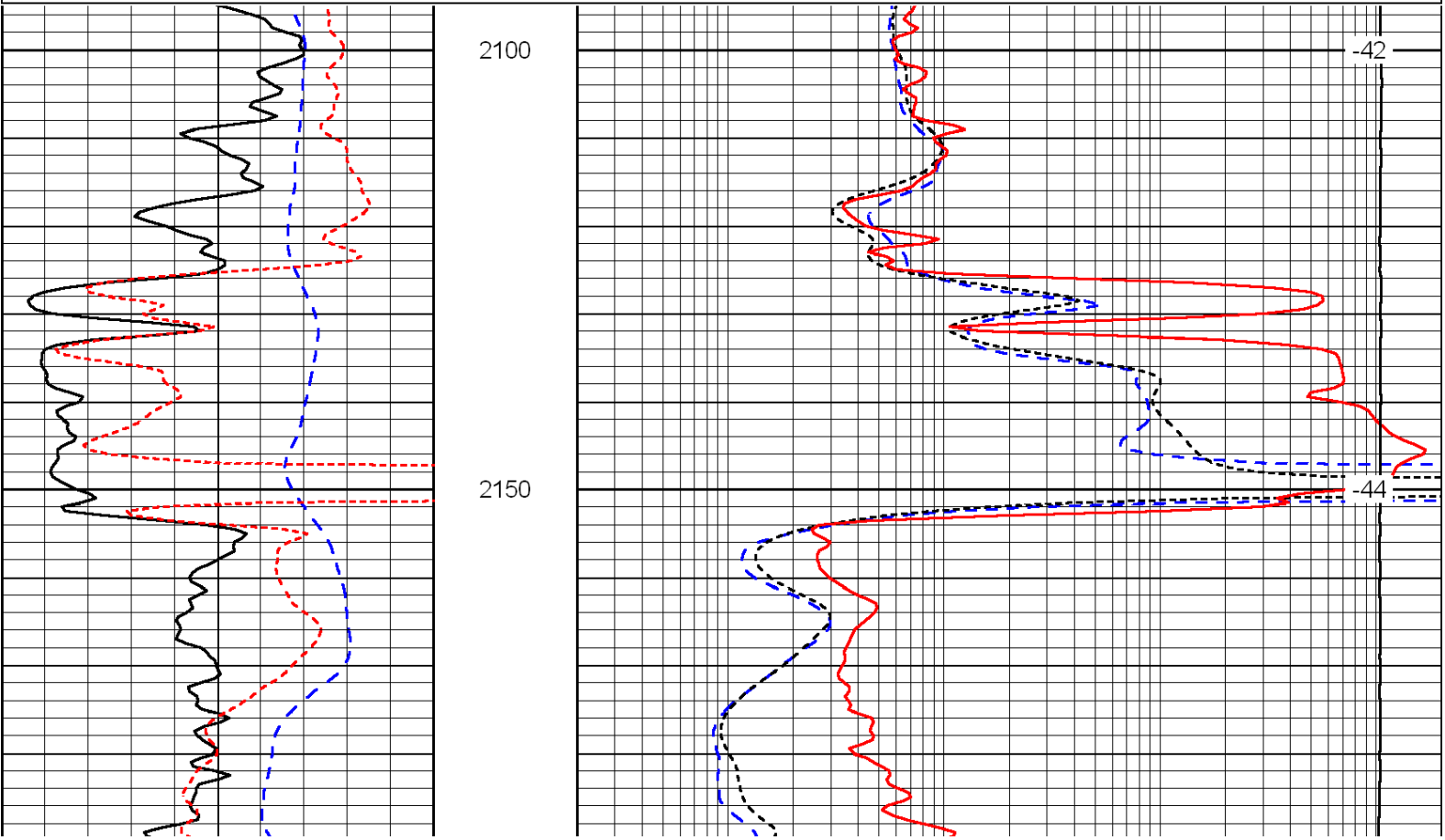
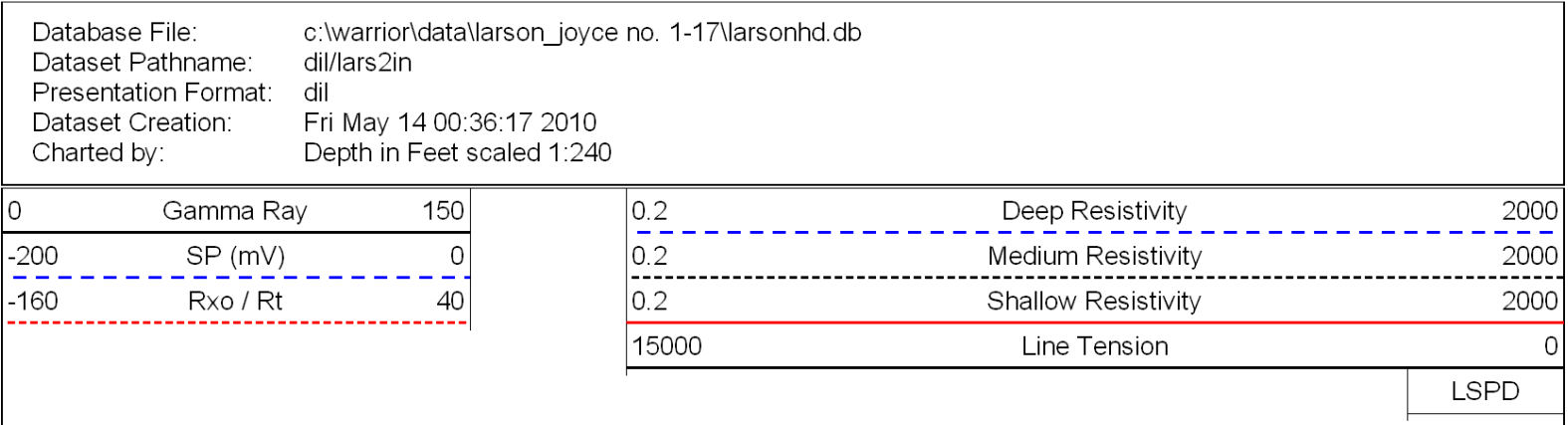
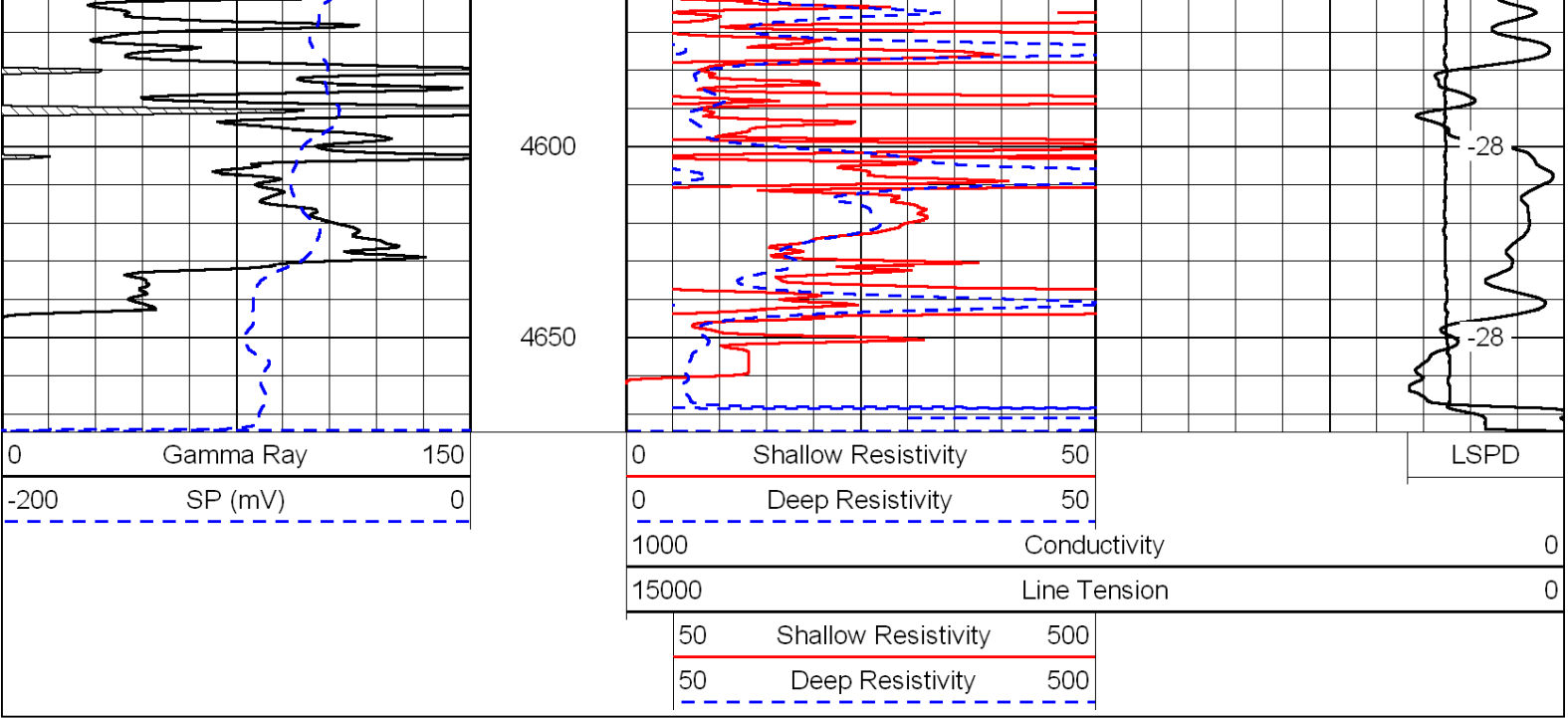


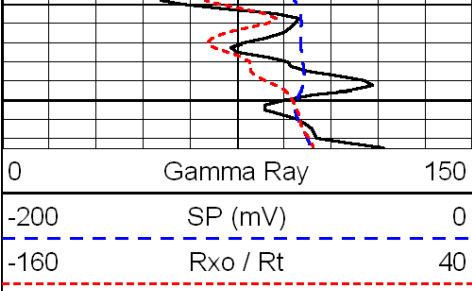




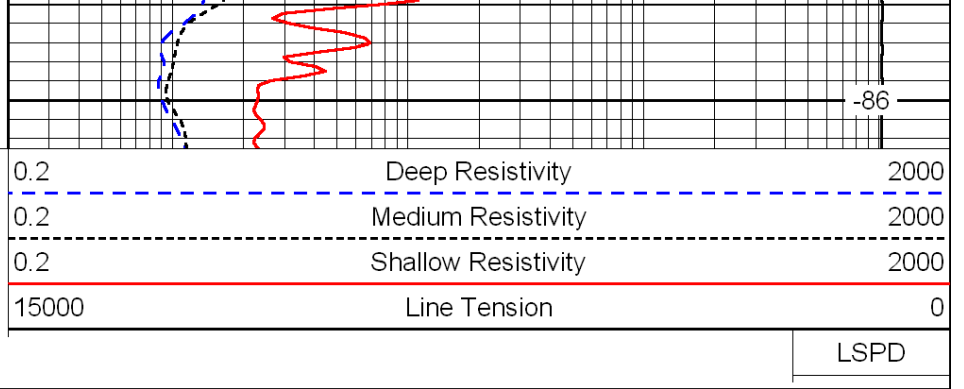




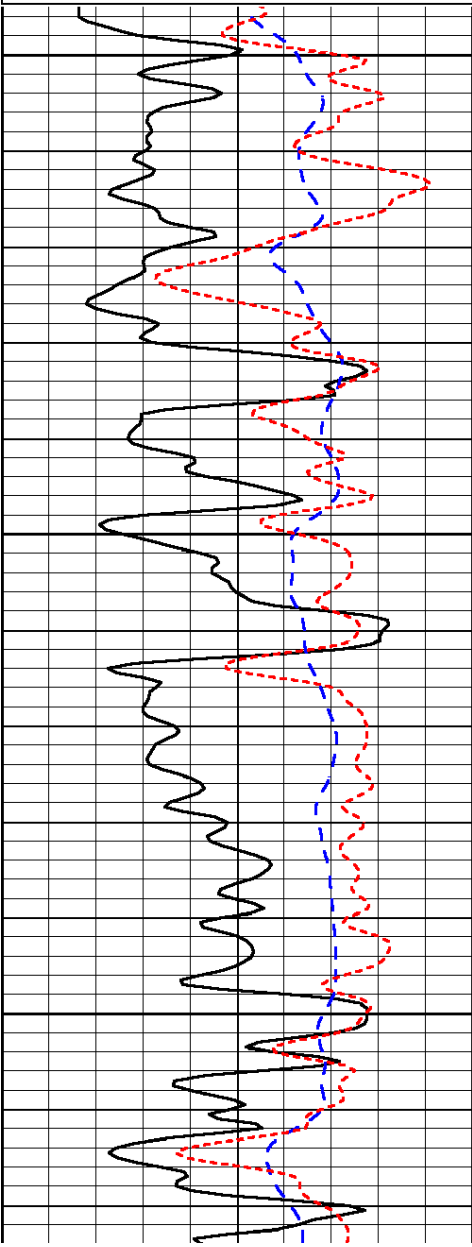
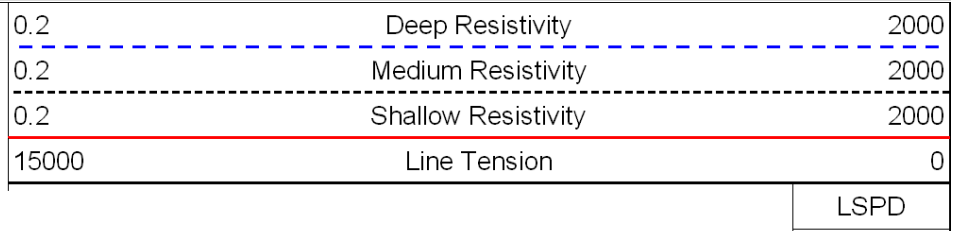
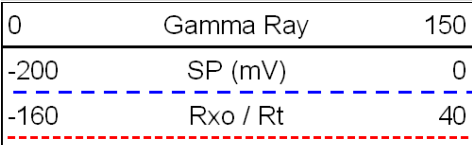




2200



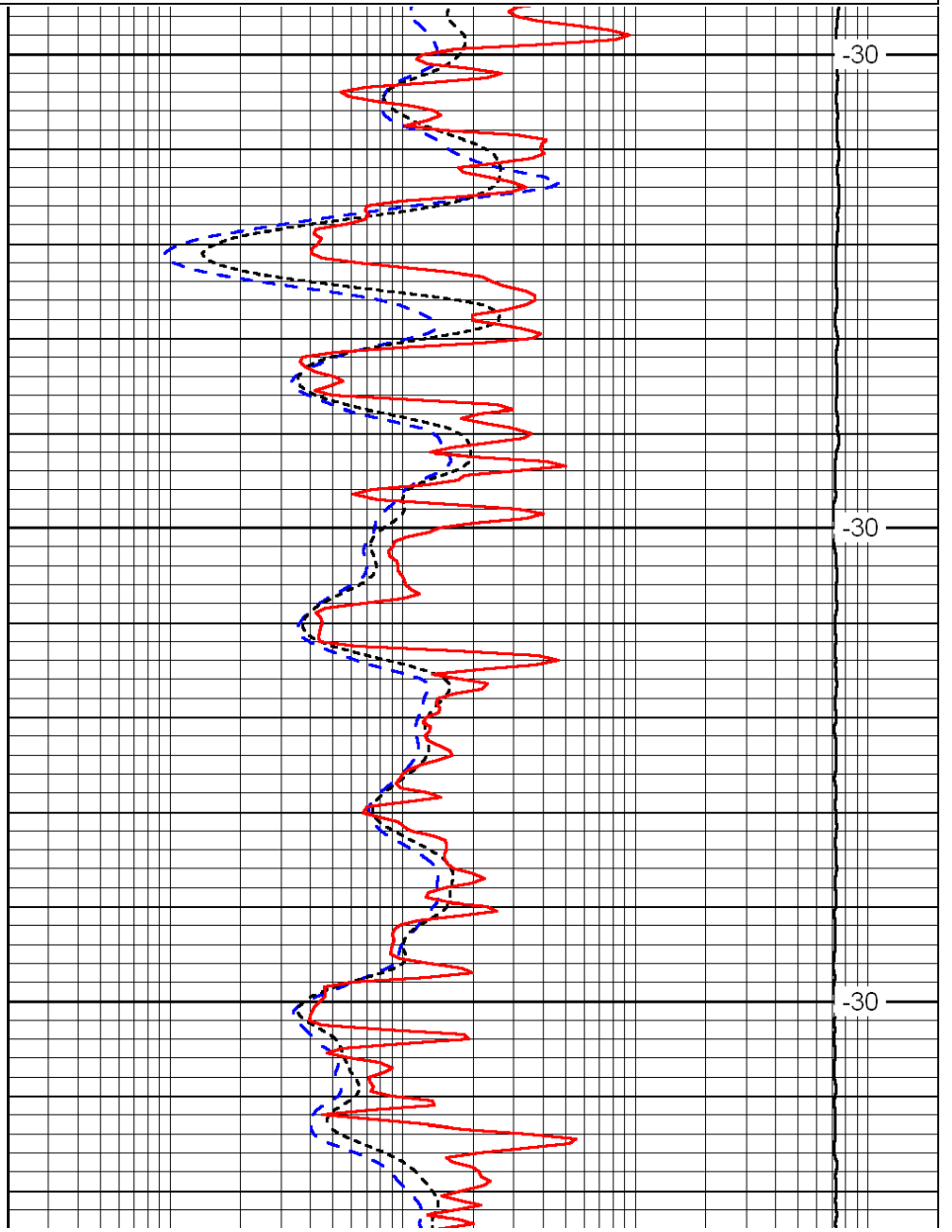
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3600

3650

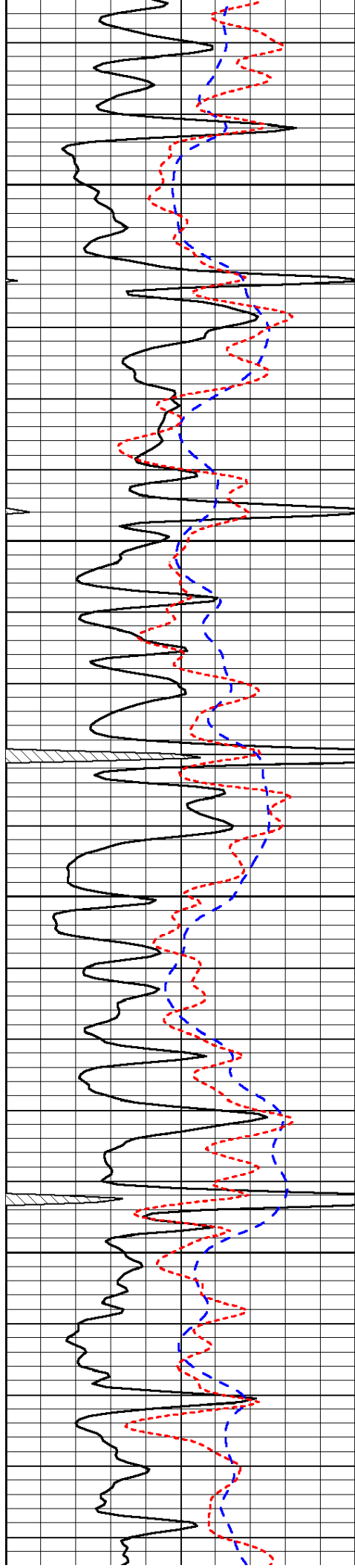
3700



-30

-30

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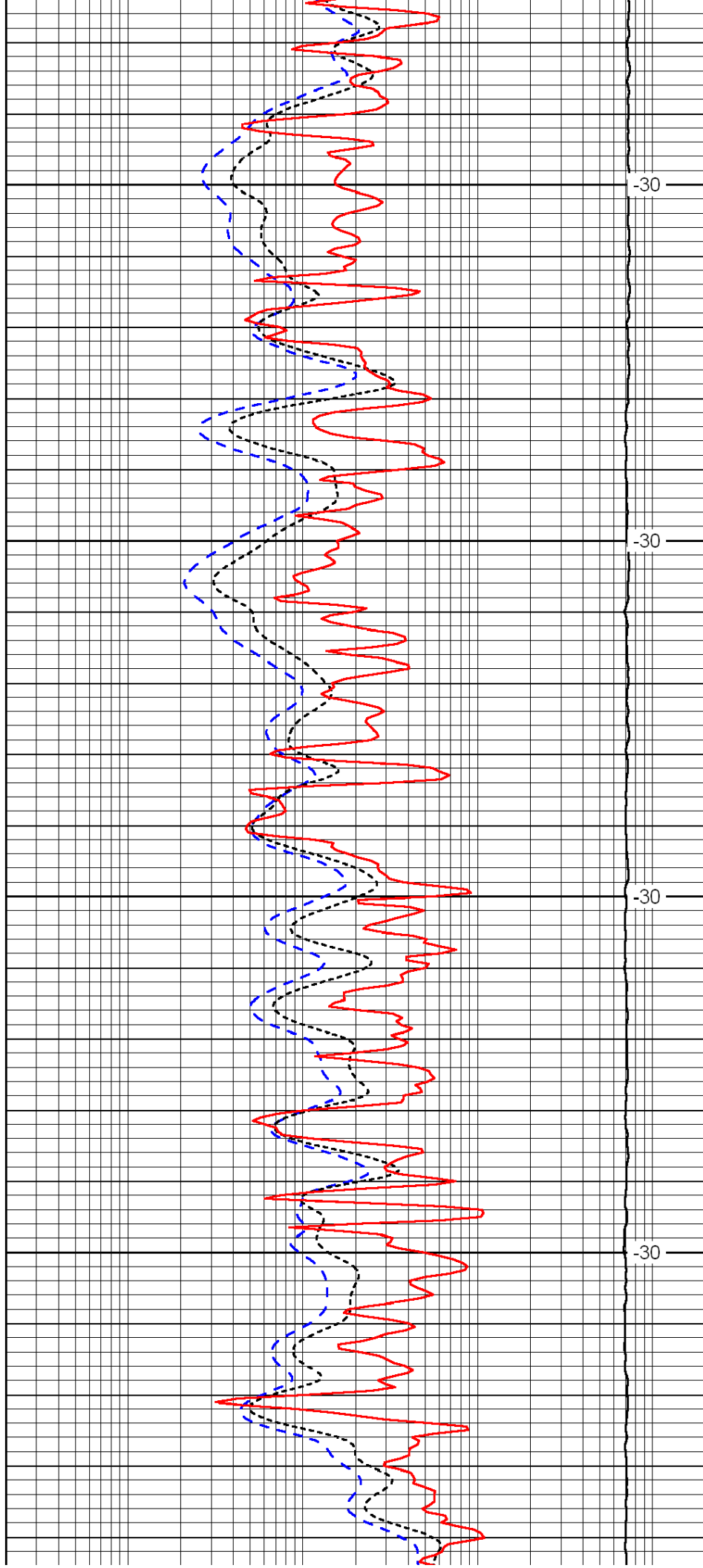


3750

3800

3850

3900

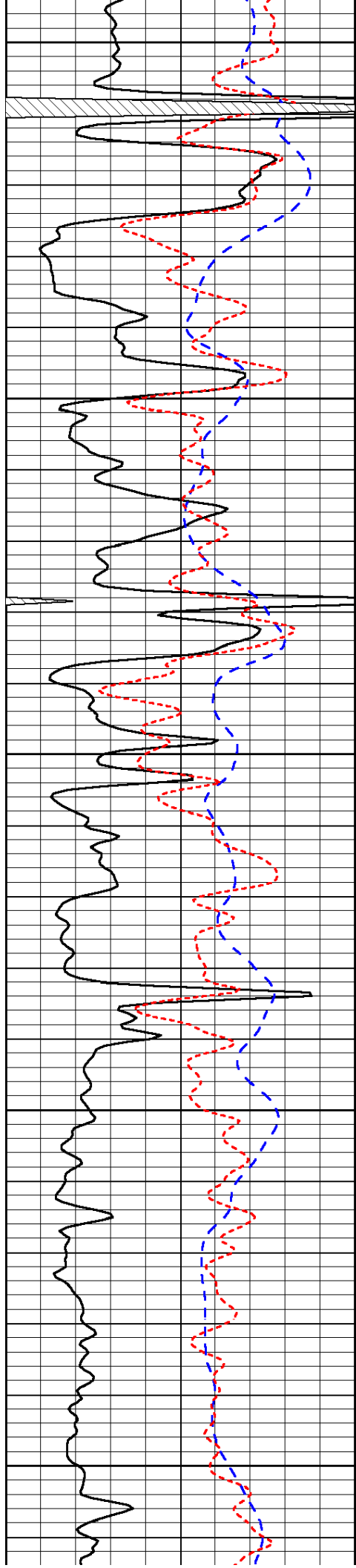


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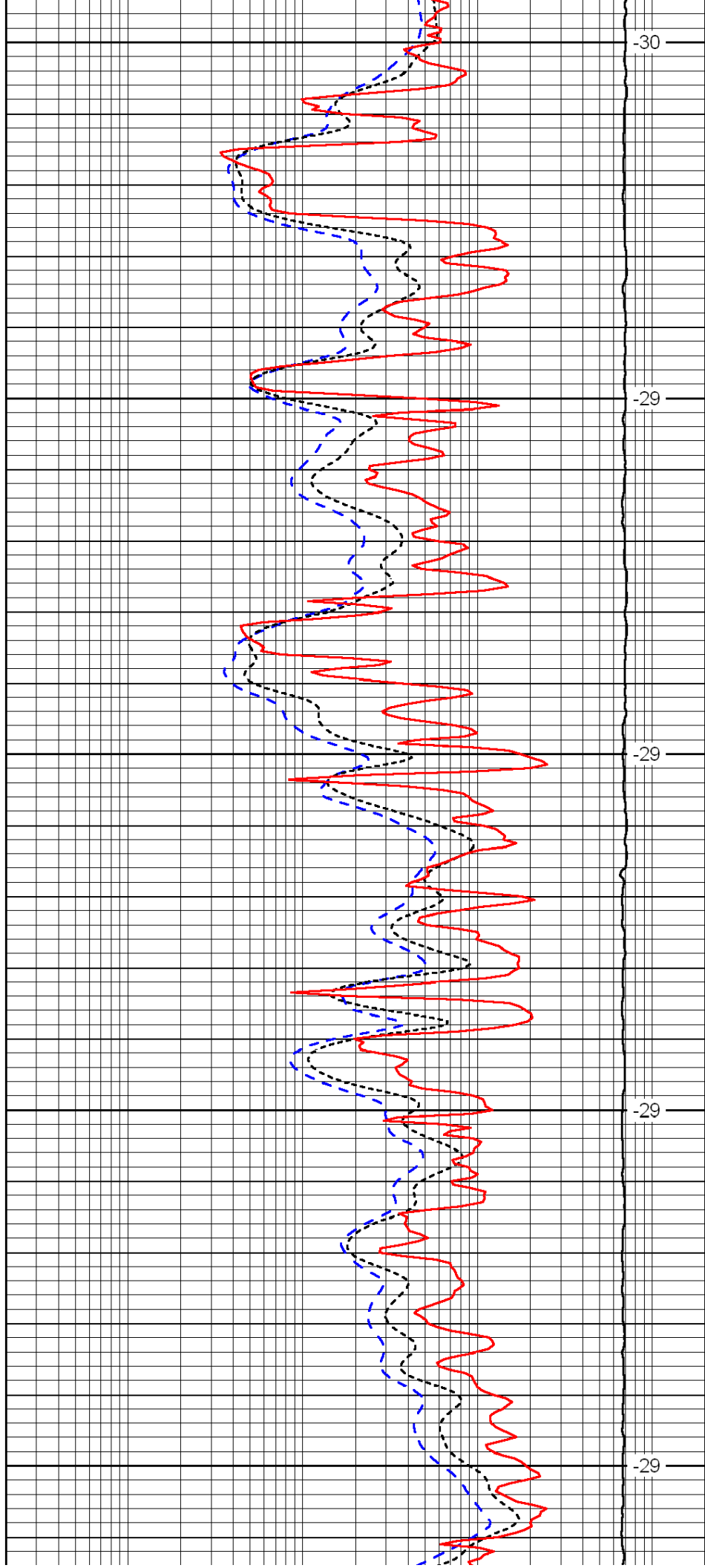
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4000

4050

4100

4150



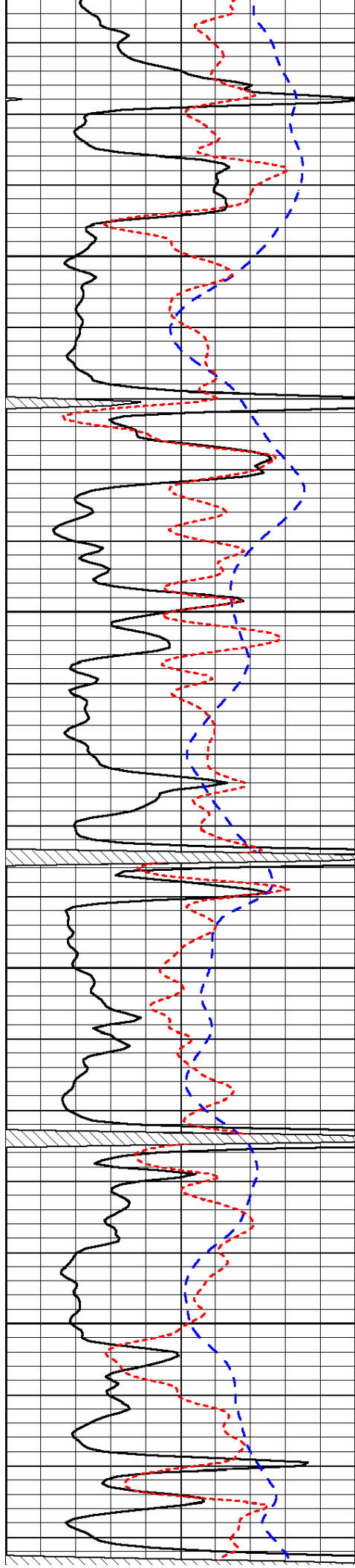
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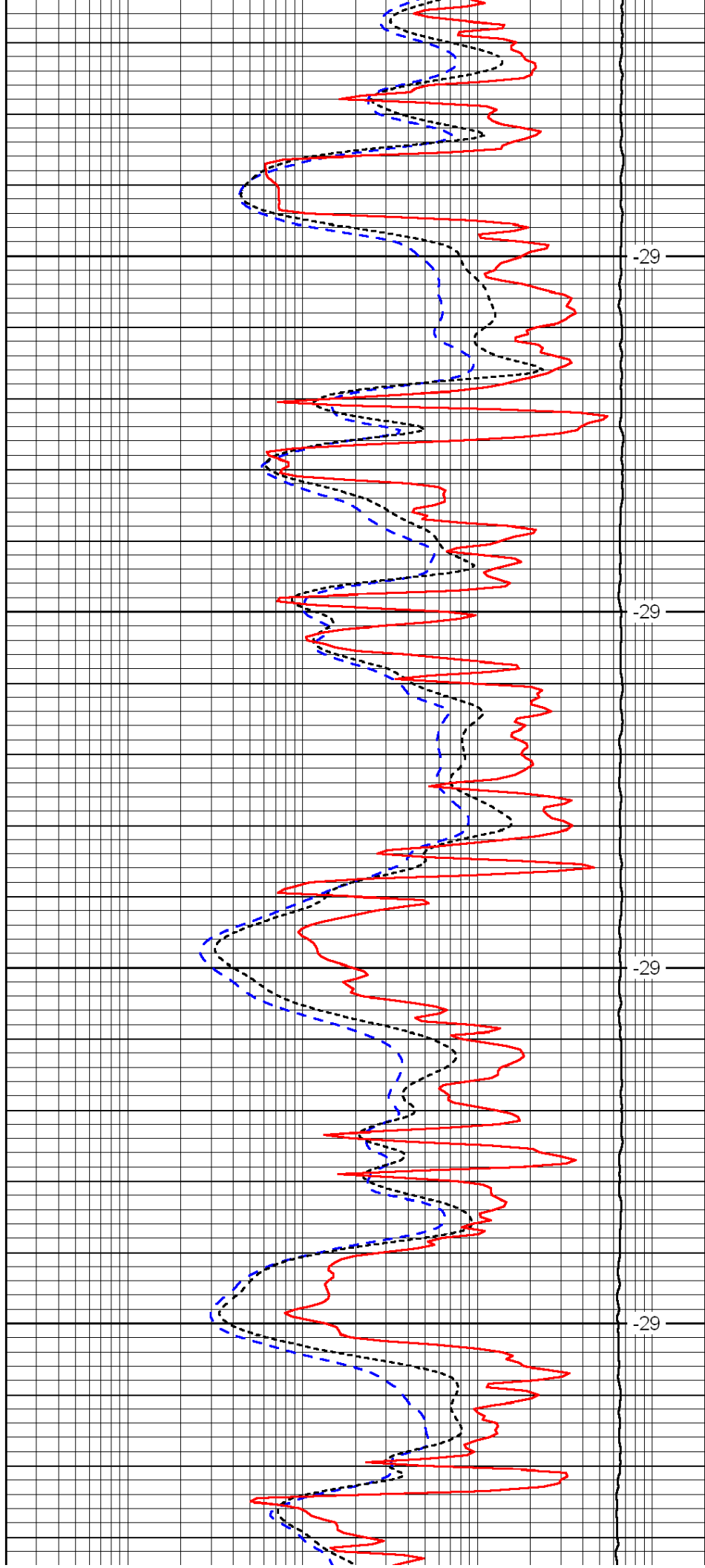


4200

4250

4300

4350

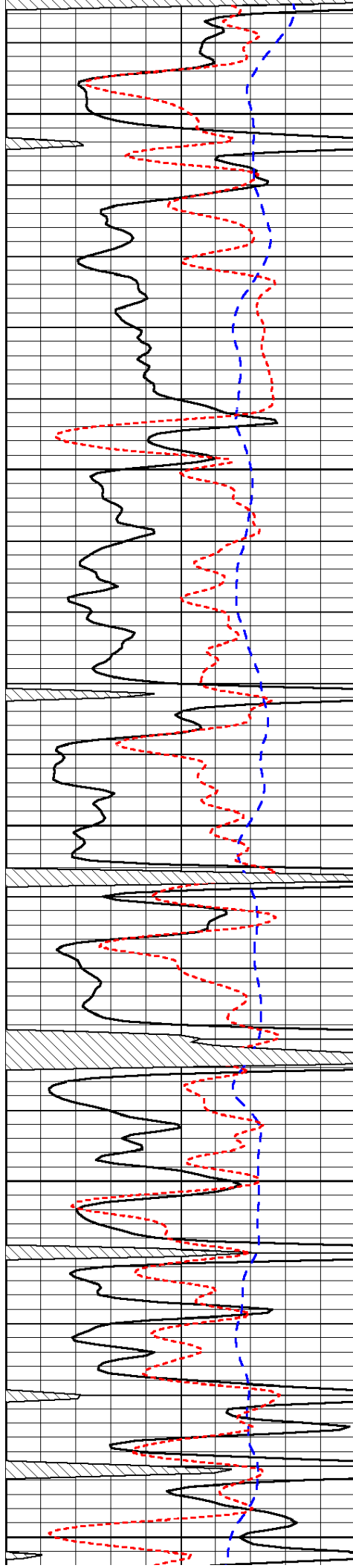


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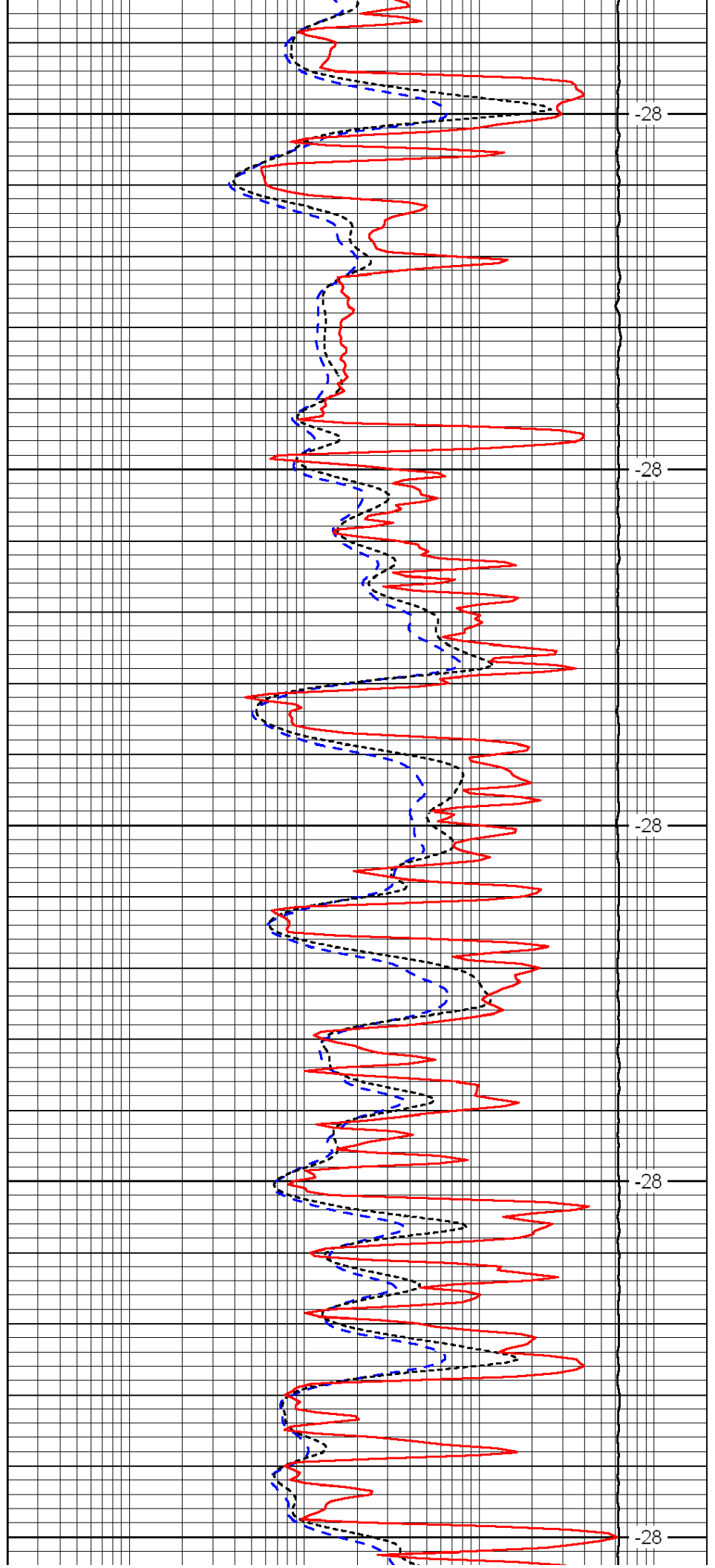
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4450

4500

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4600



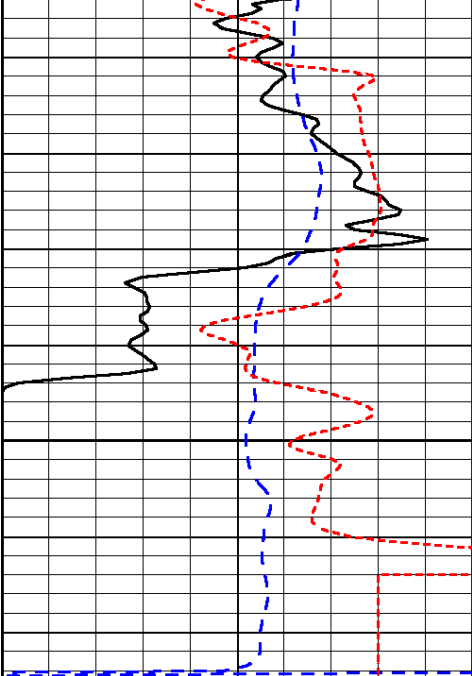
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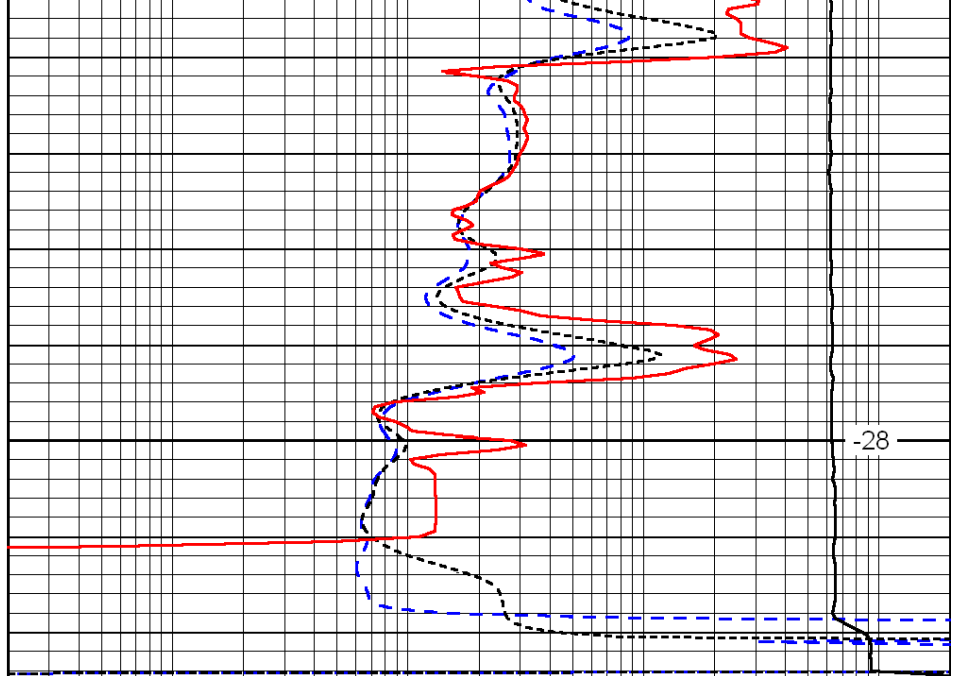
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0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

4650



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

LSPD

-28