



Dual Induction Log

Pioneer Energy Services

API No.

15-065-23,853-00-00

Company H&C Oil Operating, Inc.

Well Gosselin No.25-1

Field Wildcat

County Graham

State

Kansas

Location 1950' FNL & 1500' FEL

Sec: 25 Twp: 8S Rge: 22W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2082

Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum

K.B. 2089
D.F.
G.L. 2082

Drilling Measured From Kelly Bushing

Date 8/28/2012

Run Number One

Depth Driller 3744

Depth Logger 3746

Bottom Logged Interval 3745

Top Log Interval 200

Casing Driller 8.625 @ 238

Casing Logger 235

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 1,900

Density / Viscosity 9.1 44

pH / Fluid Loss 10.5 7.8

Source of Sample Flowline

Rm @ Meas. Temp 2.1 @ 73

Rmf @ Meas. Temp 1.58 @ 73

Rmc @ Meas. Temp 2.84 @ 73

Source of Rmf / Rmc Charts

Rm @ BHT 1.35 @ 113

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 113

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Marc Downing

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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

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(785) 625-3858

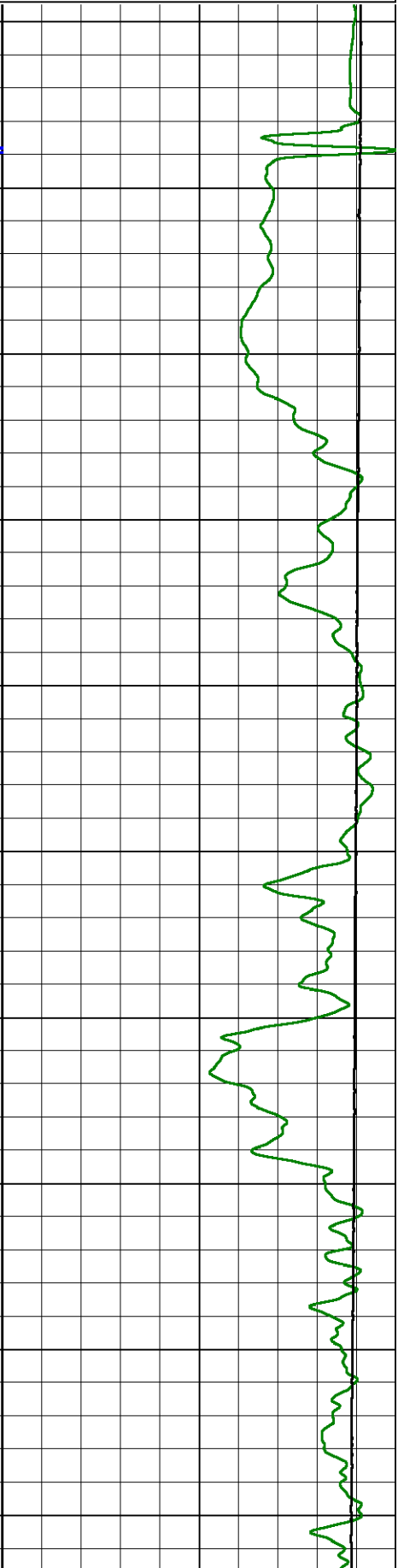
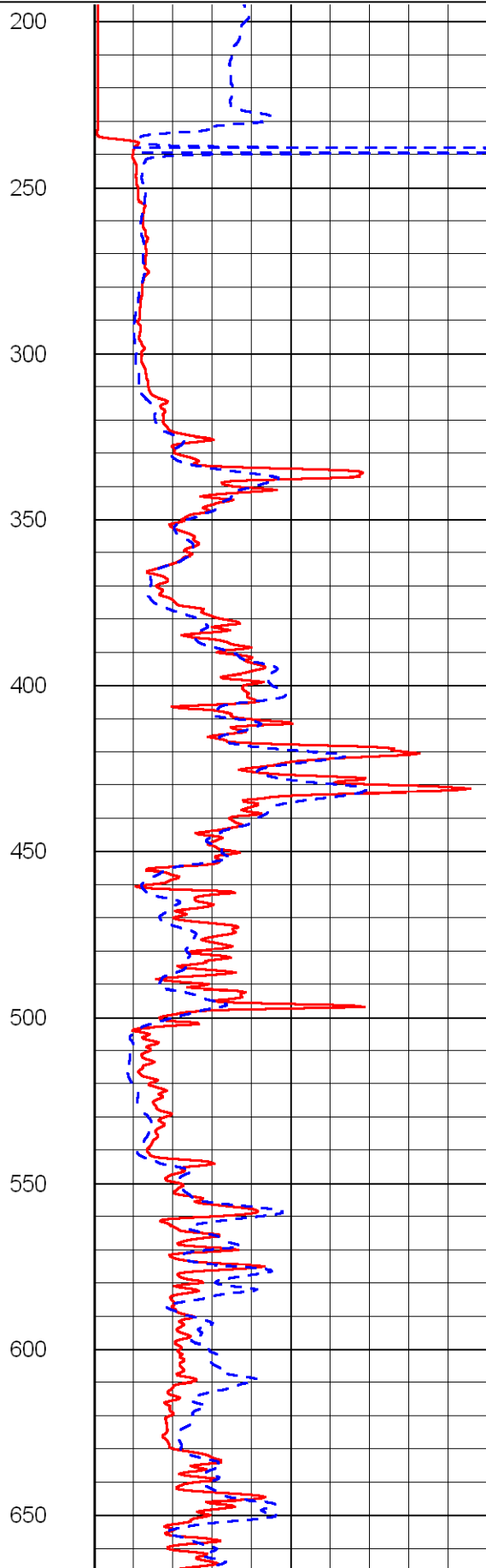
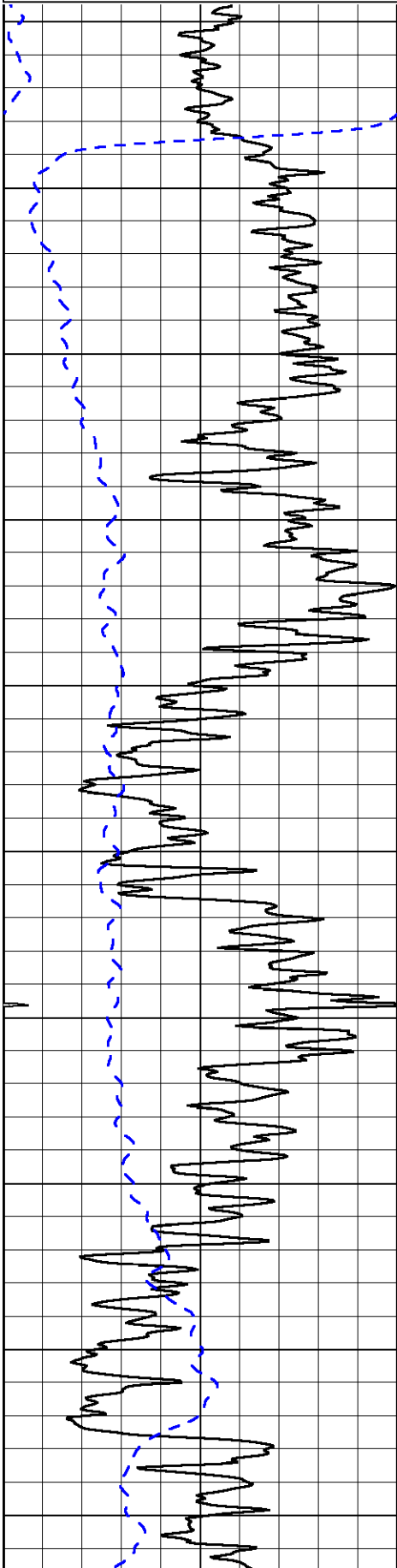
Bogue KS, S to O Rd, 2 W, Past Bridge, S Into

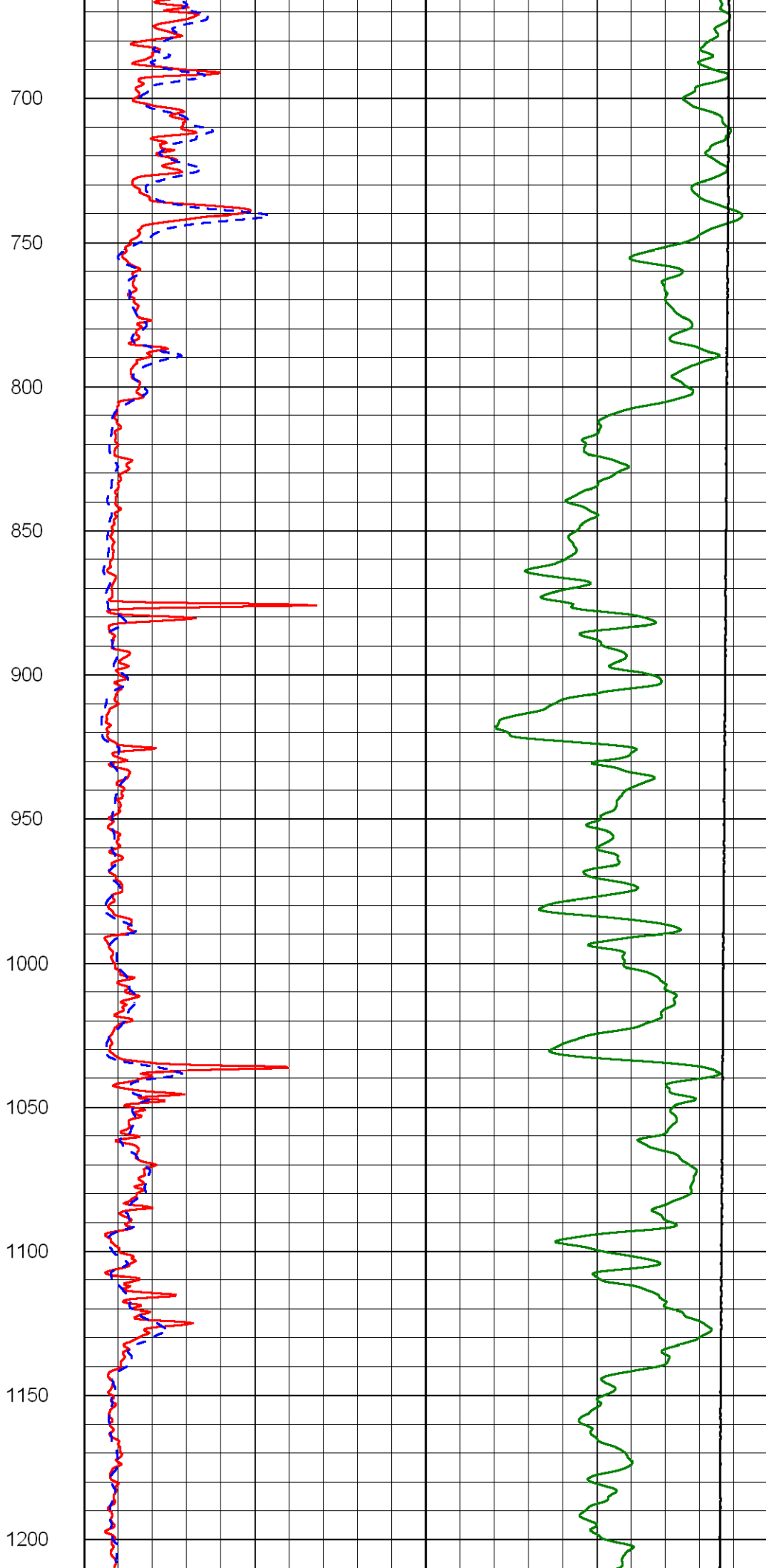
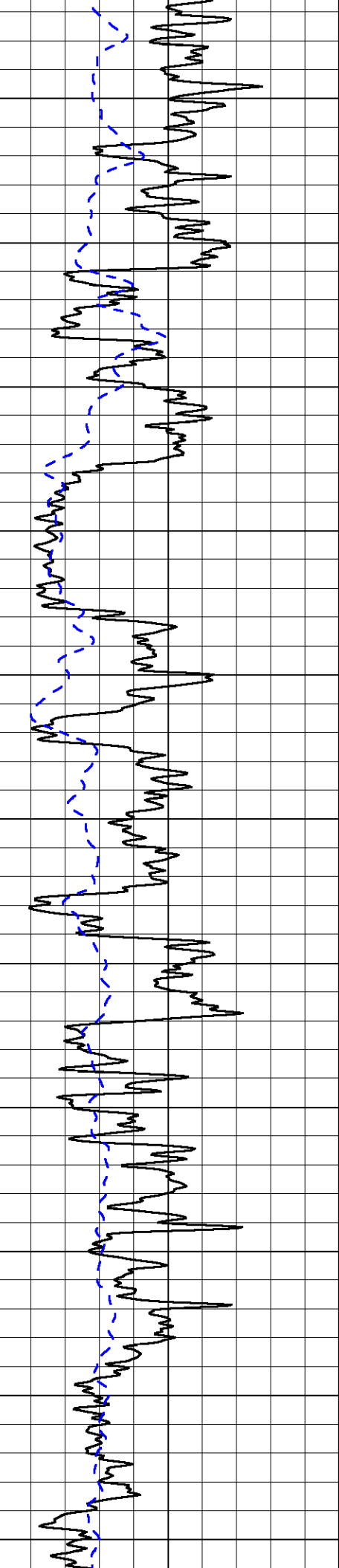
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Presentation Format: dil2in
Dataset Creation: Tue Aug 28 02:52:28 2012
Charted by: Depth in Feet scaled 1:600

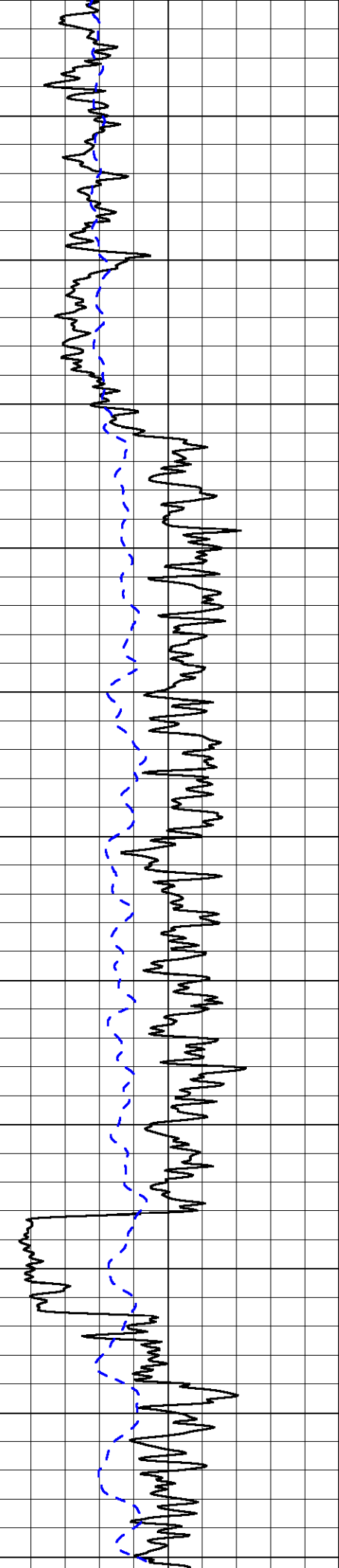
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-200	SP	0

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

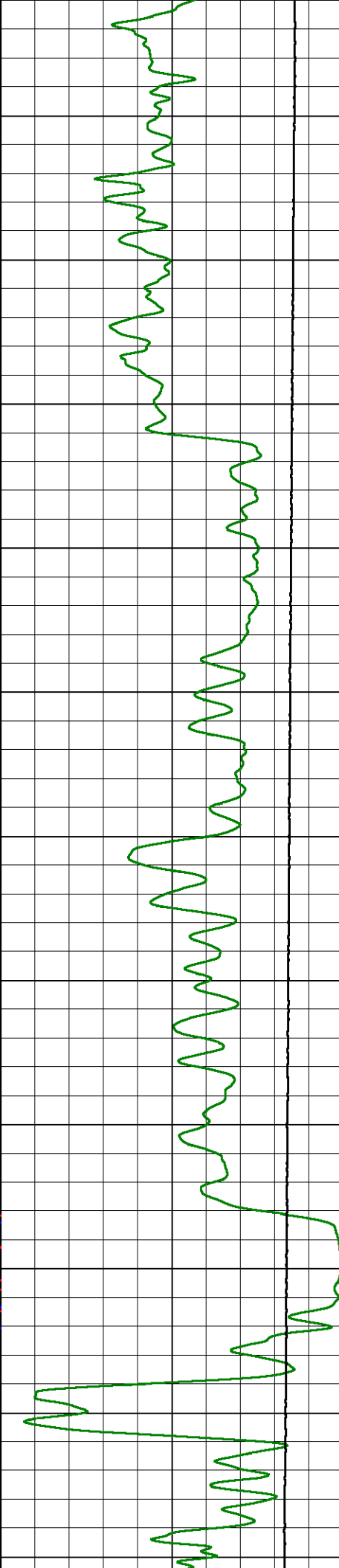
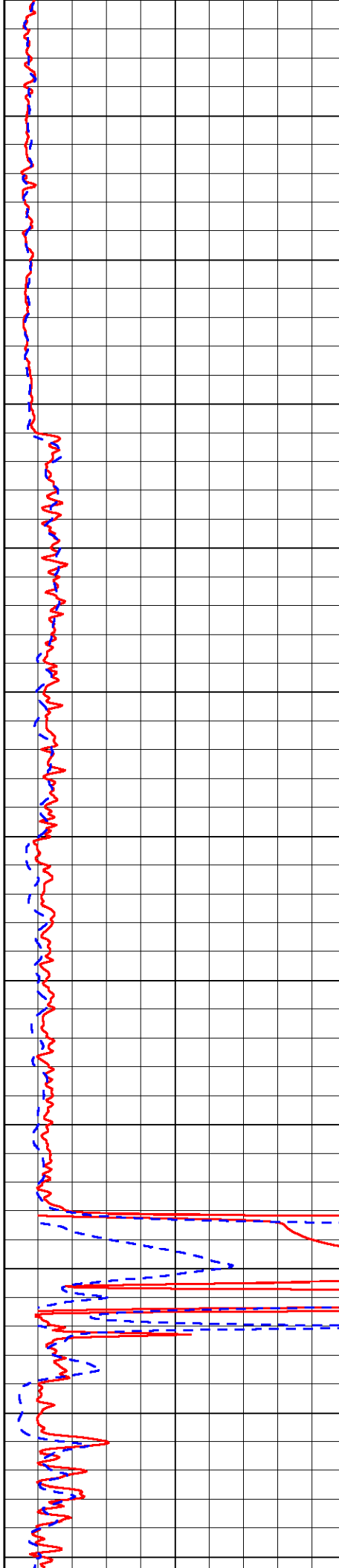
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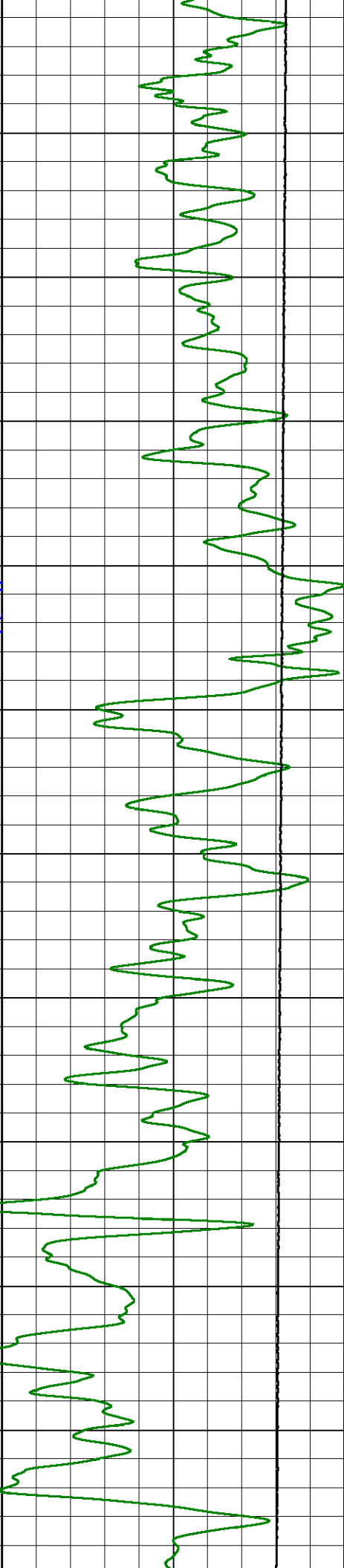
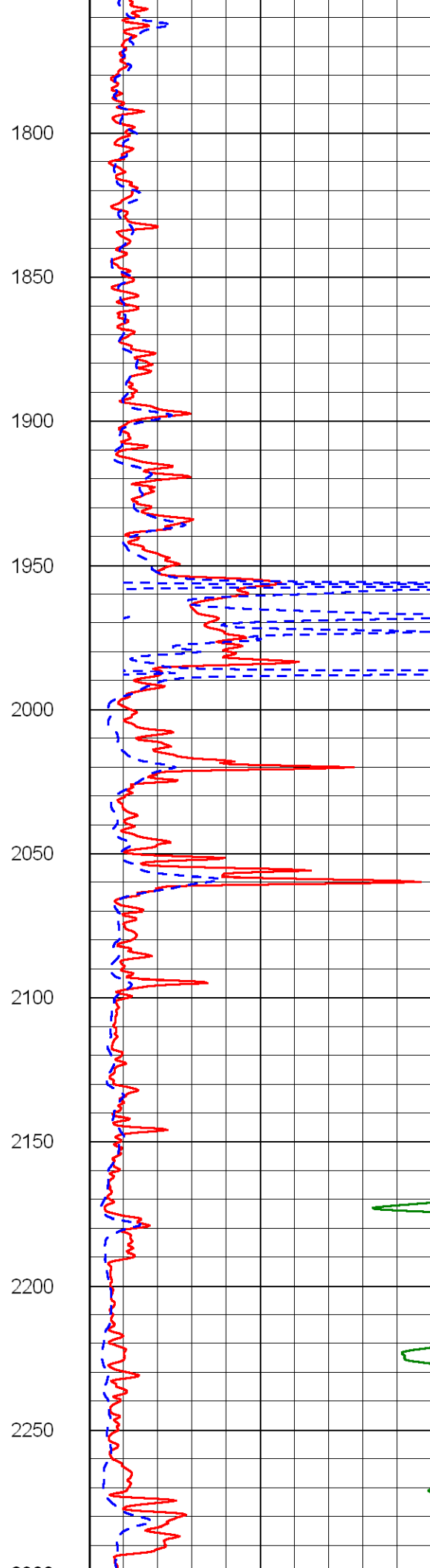
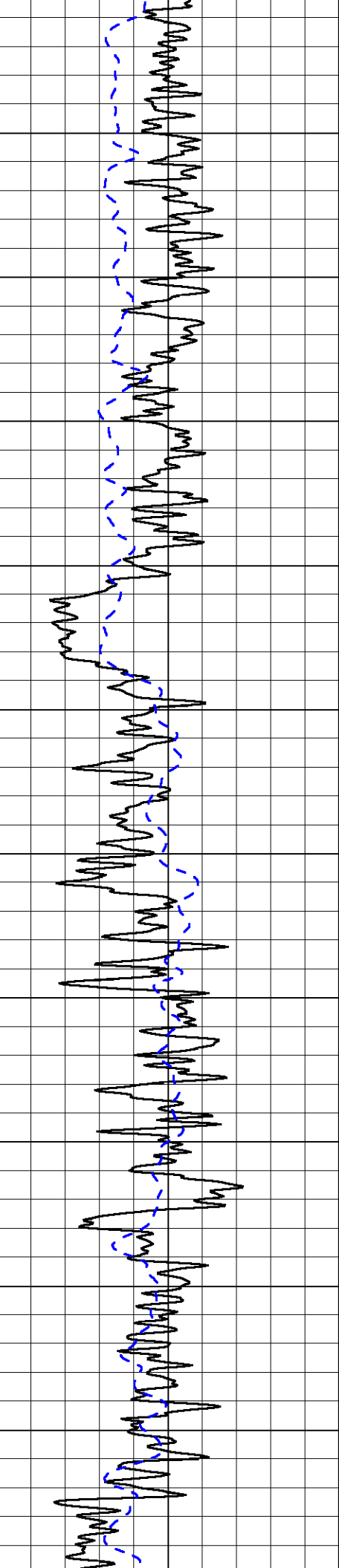


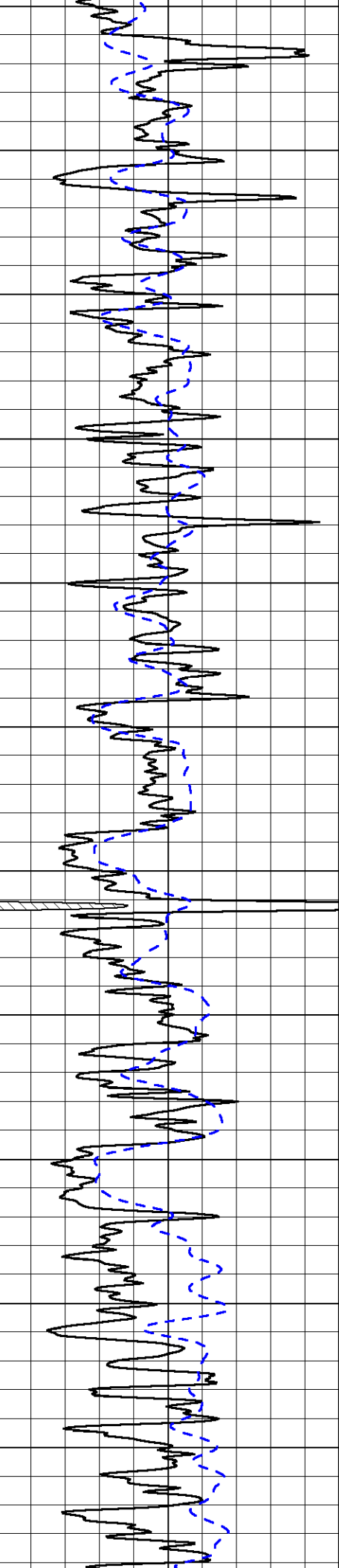




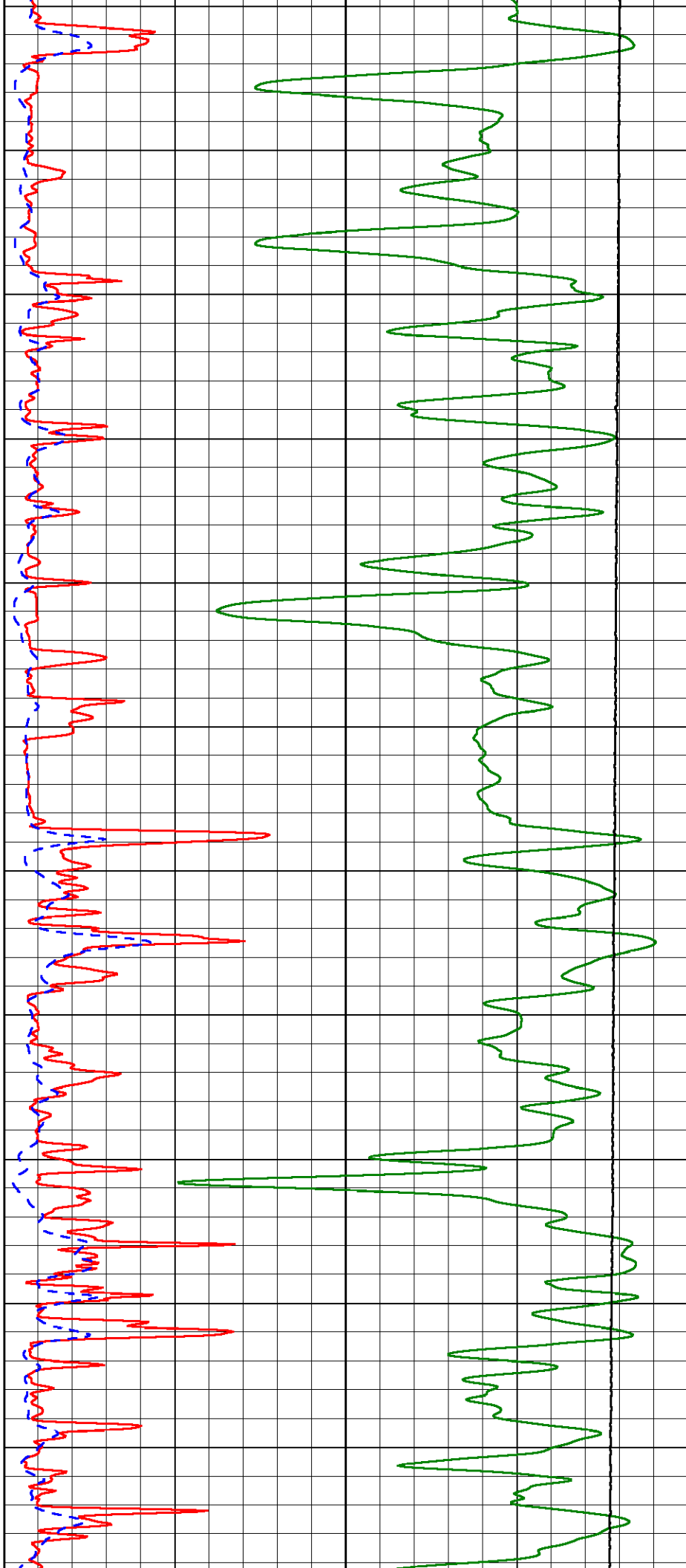
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1500
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1650
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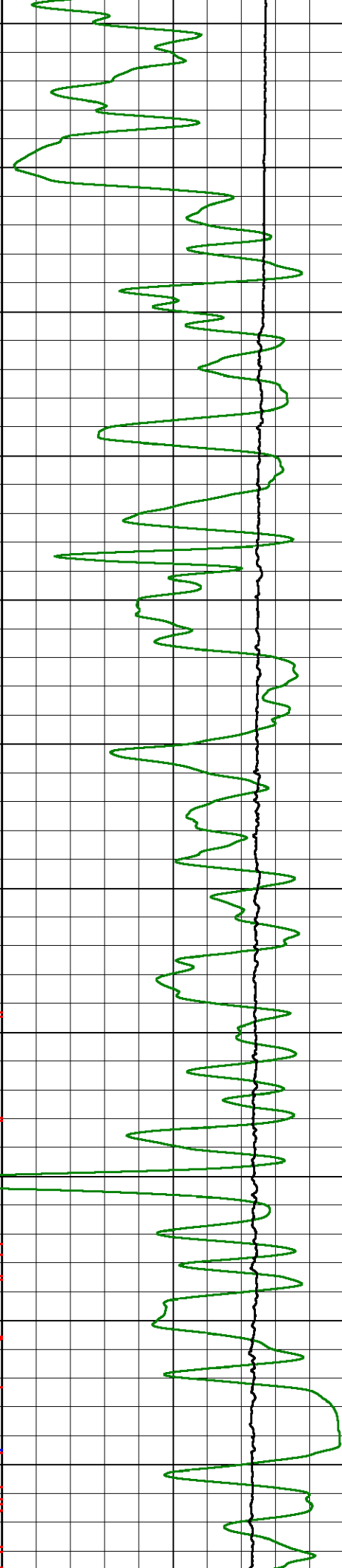
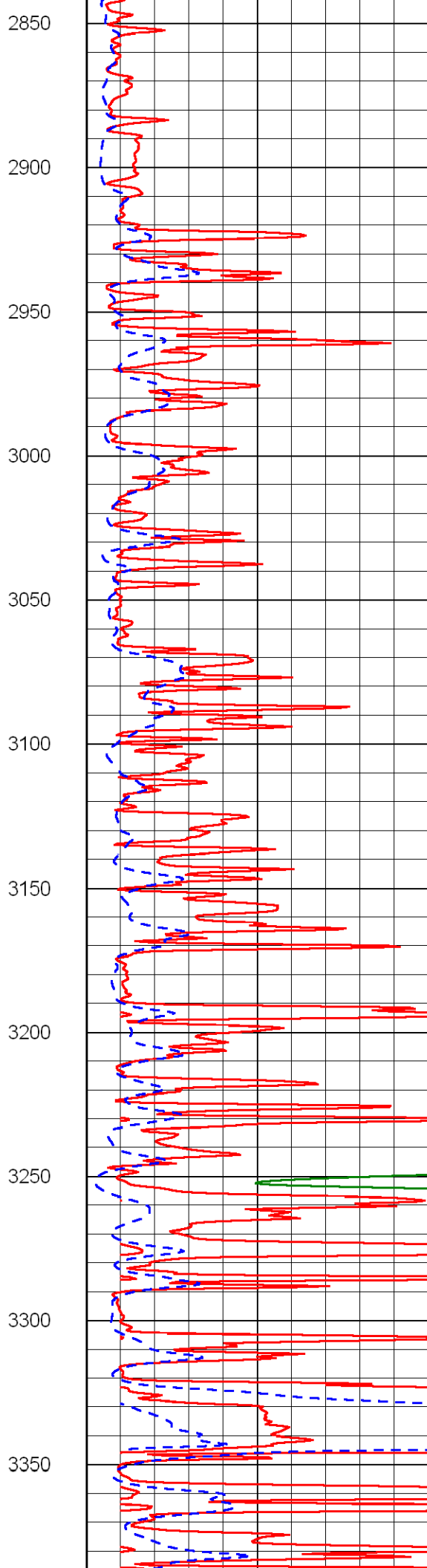
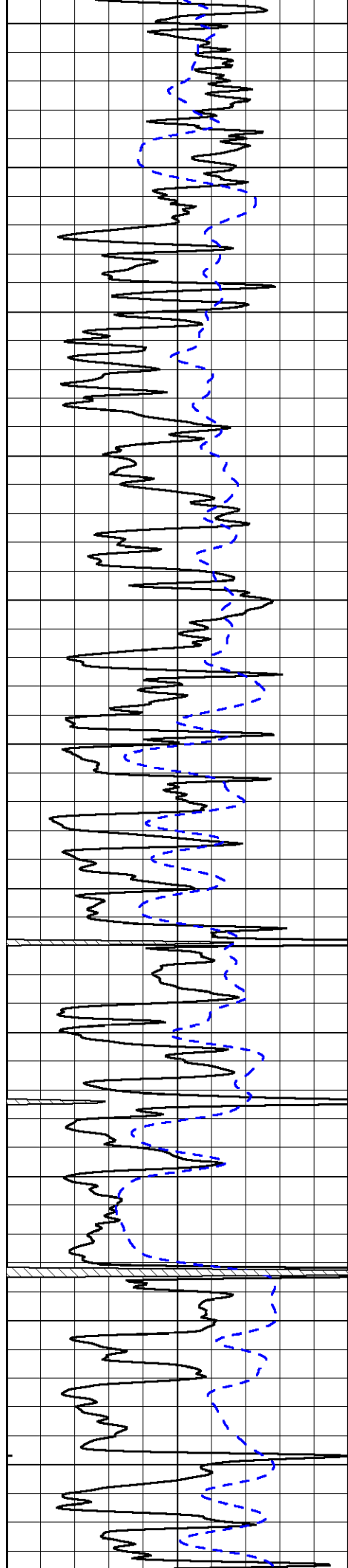


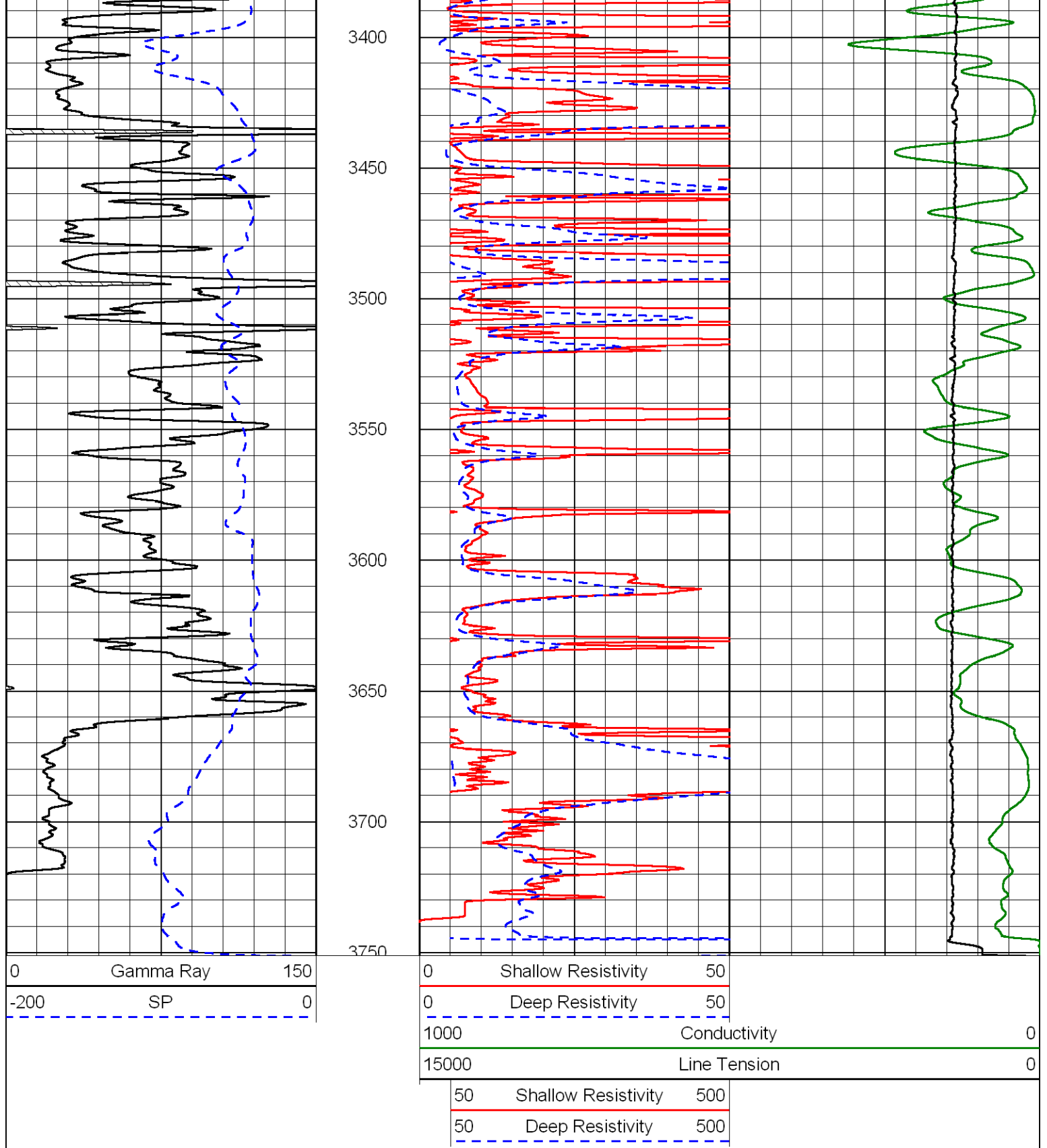




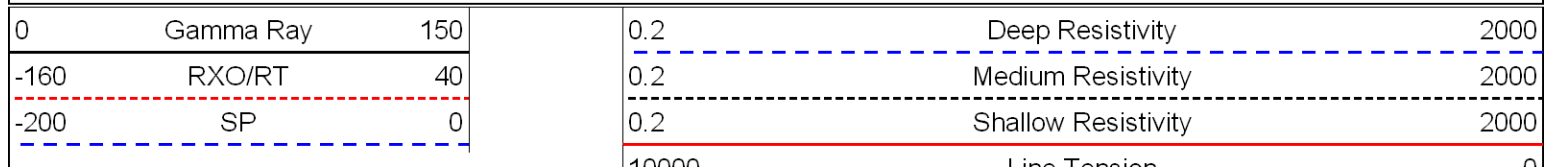
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2700
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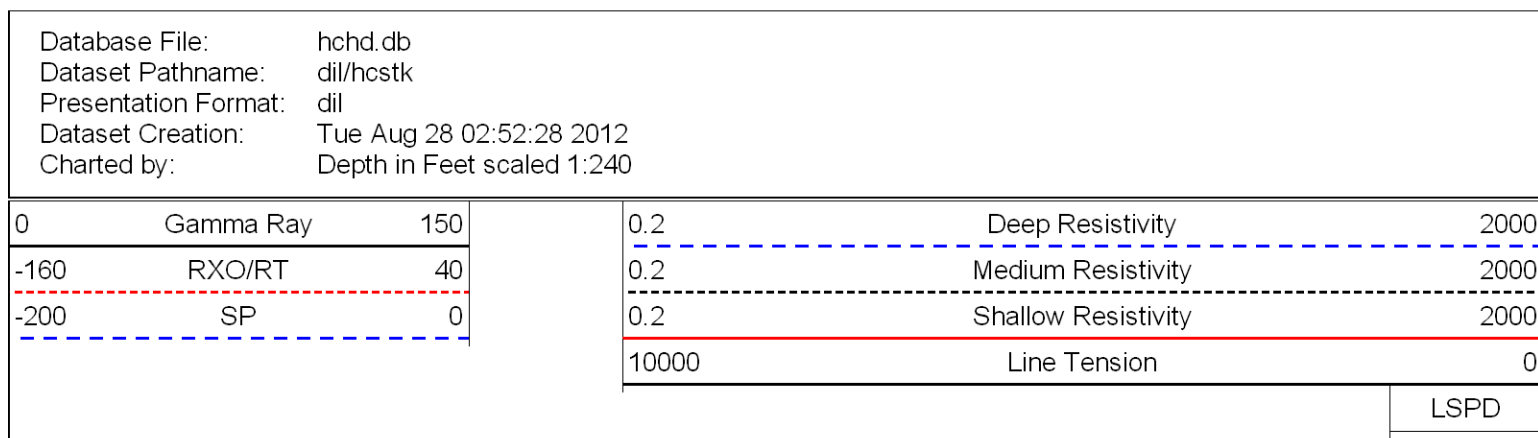
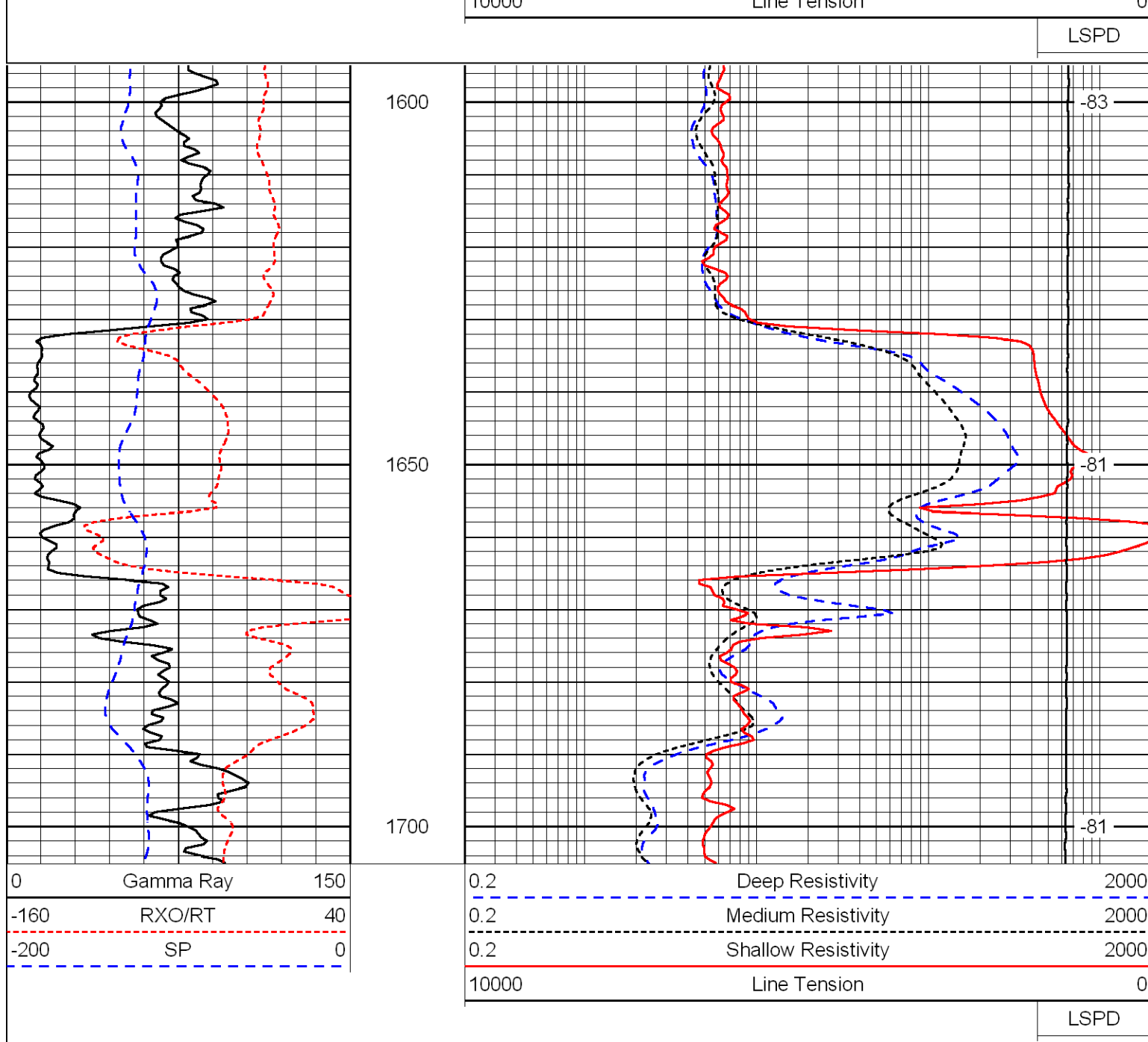


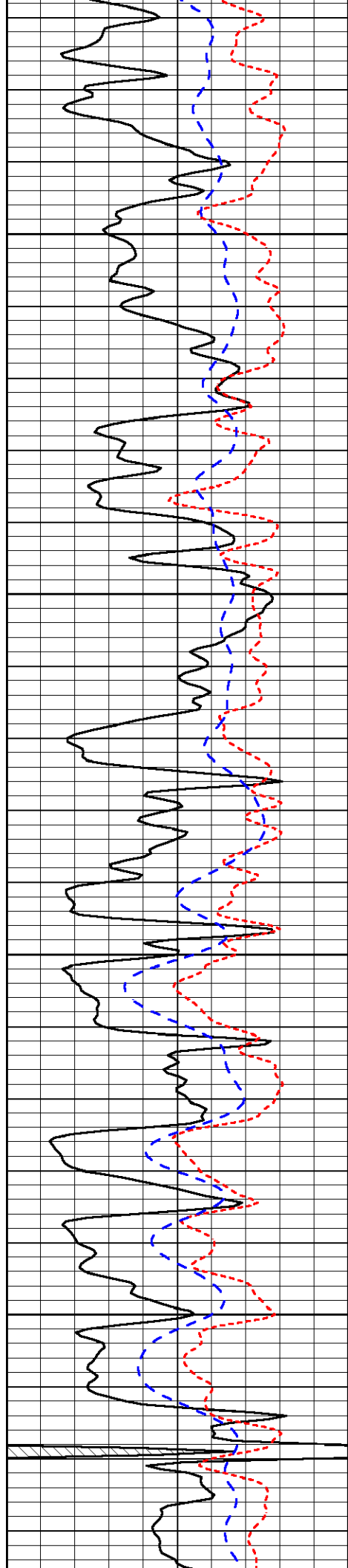




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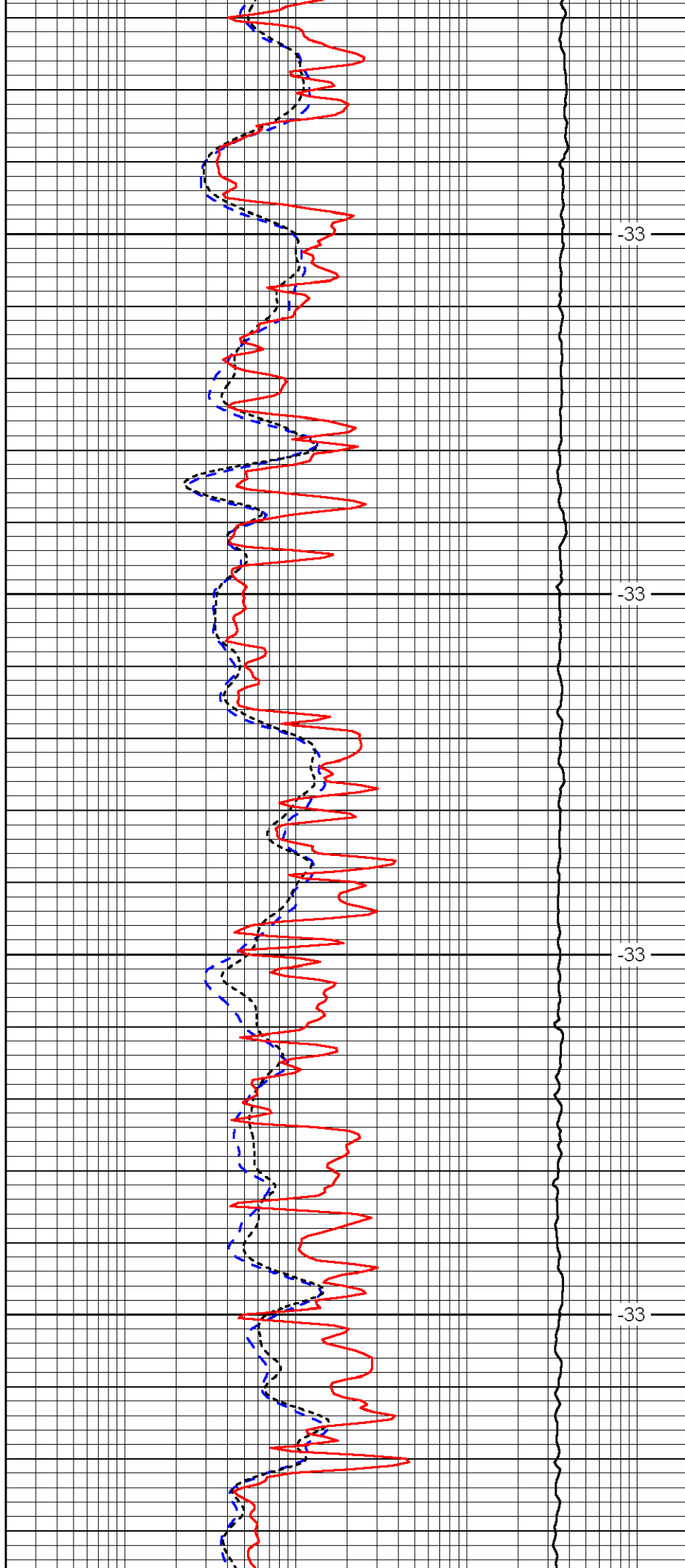


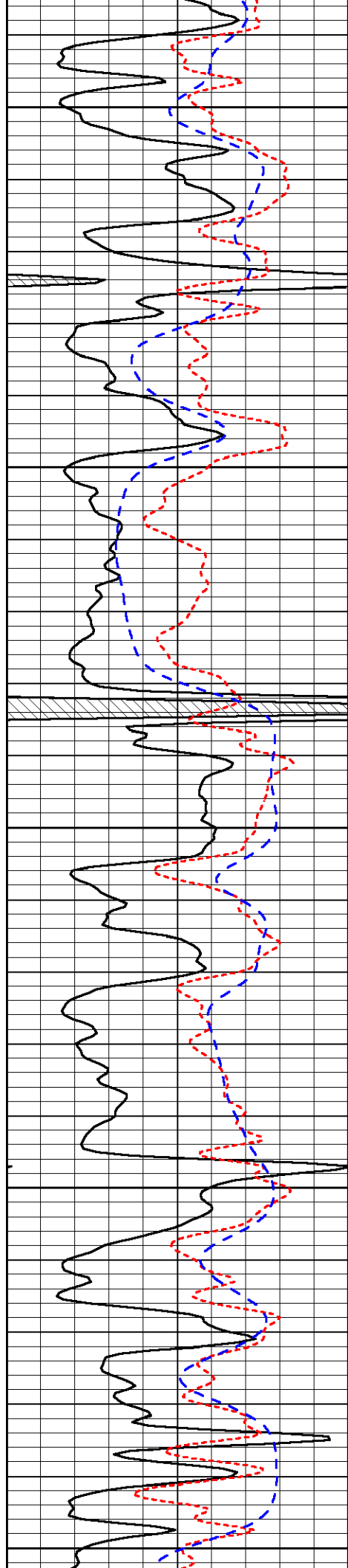
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3150





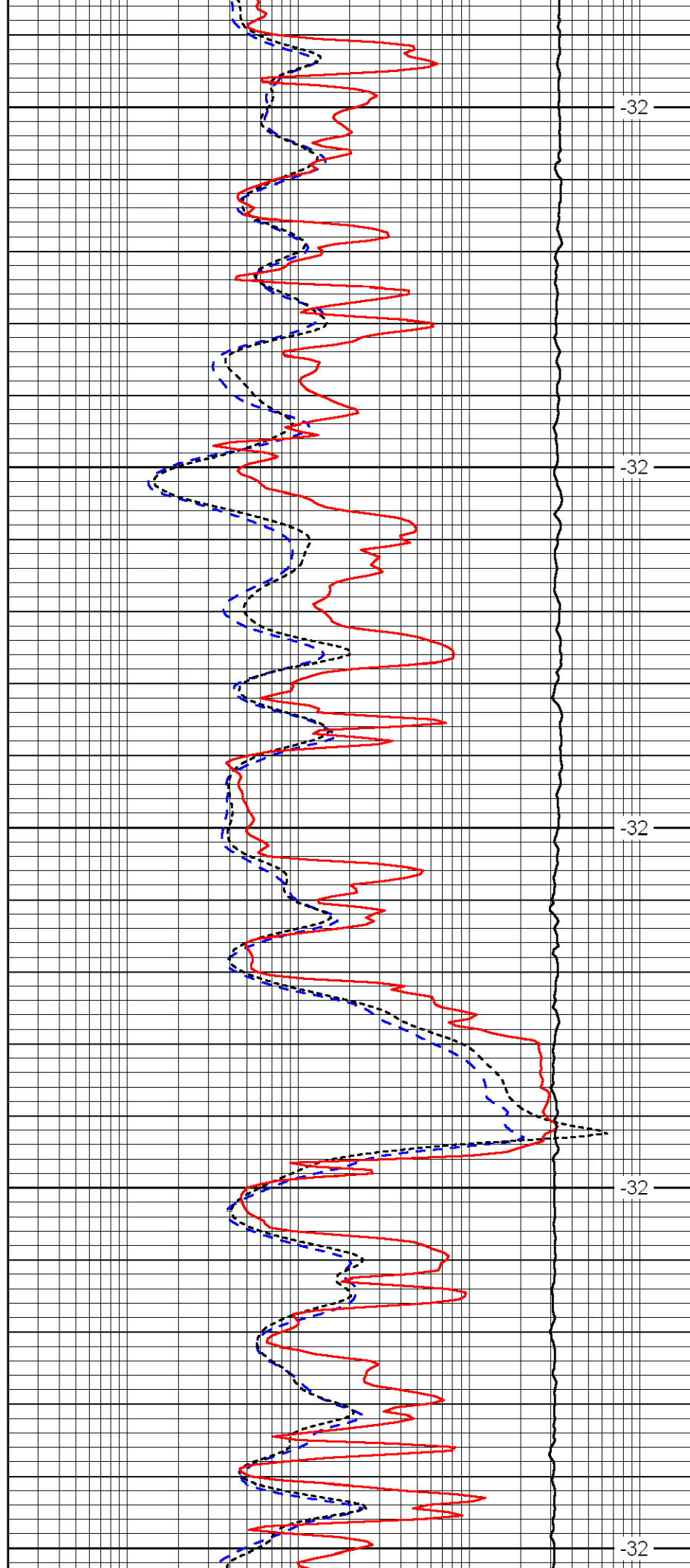
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3350

3400



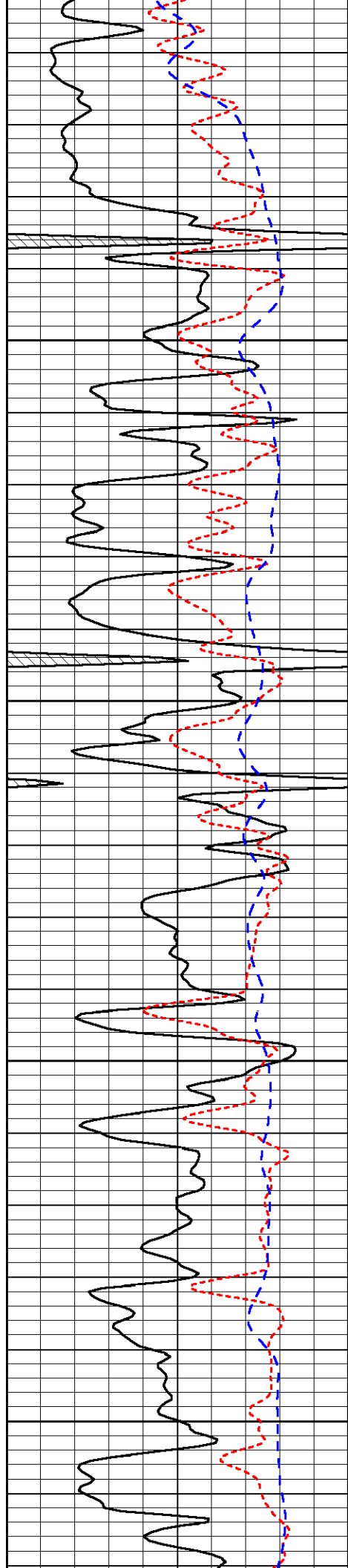
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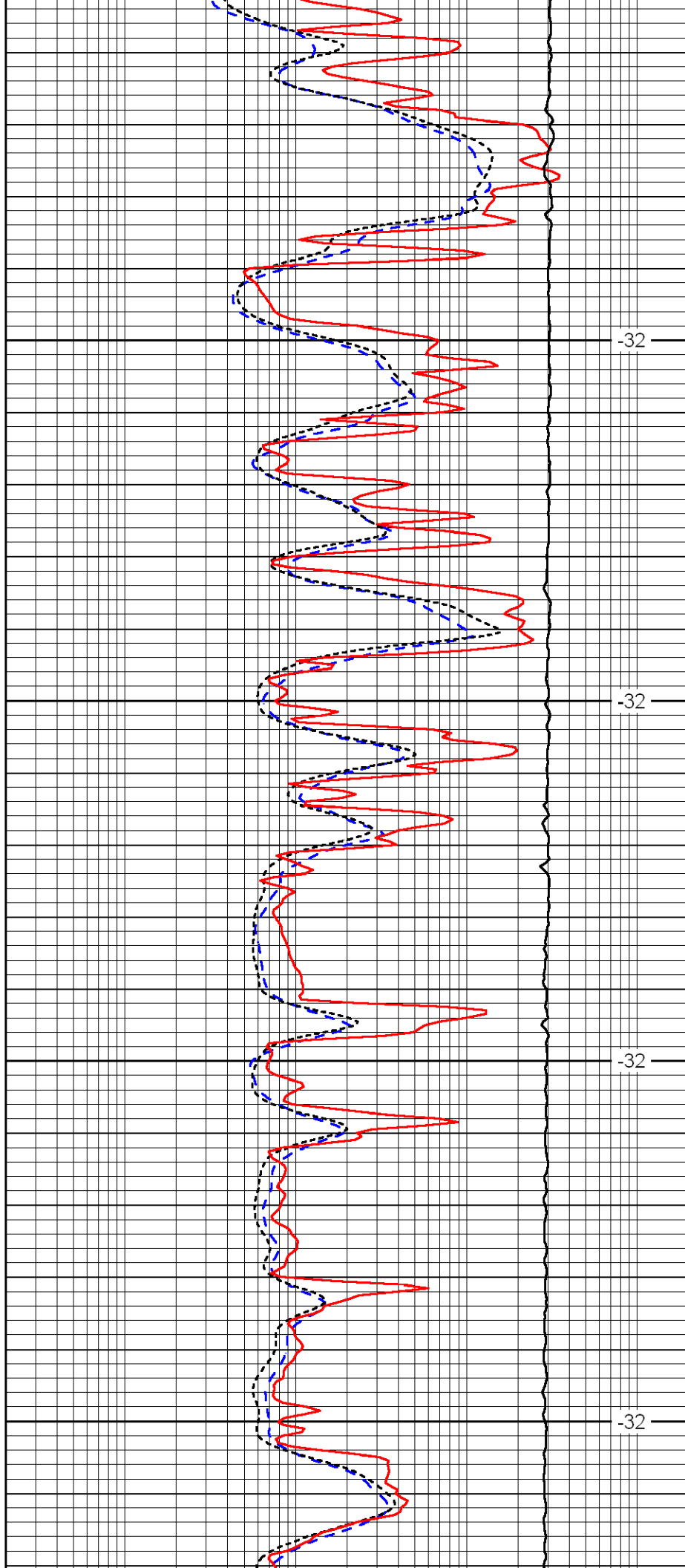


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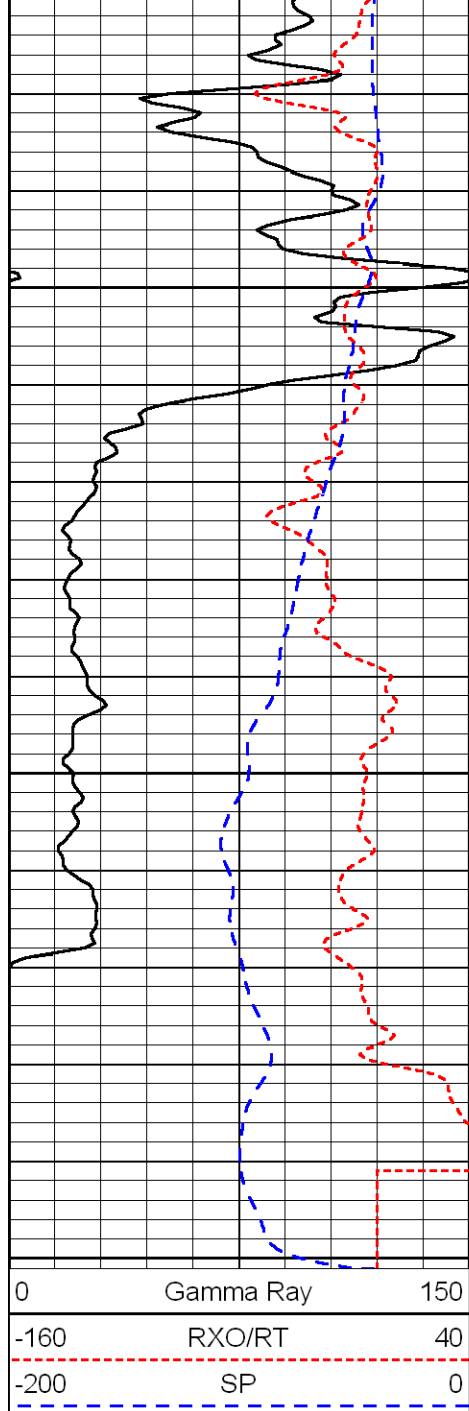


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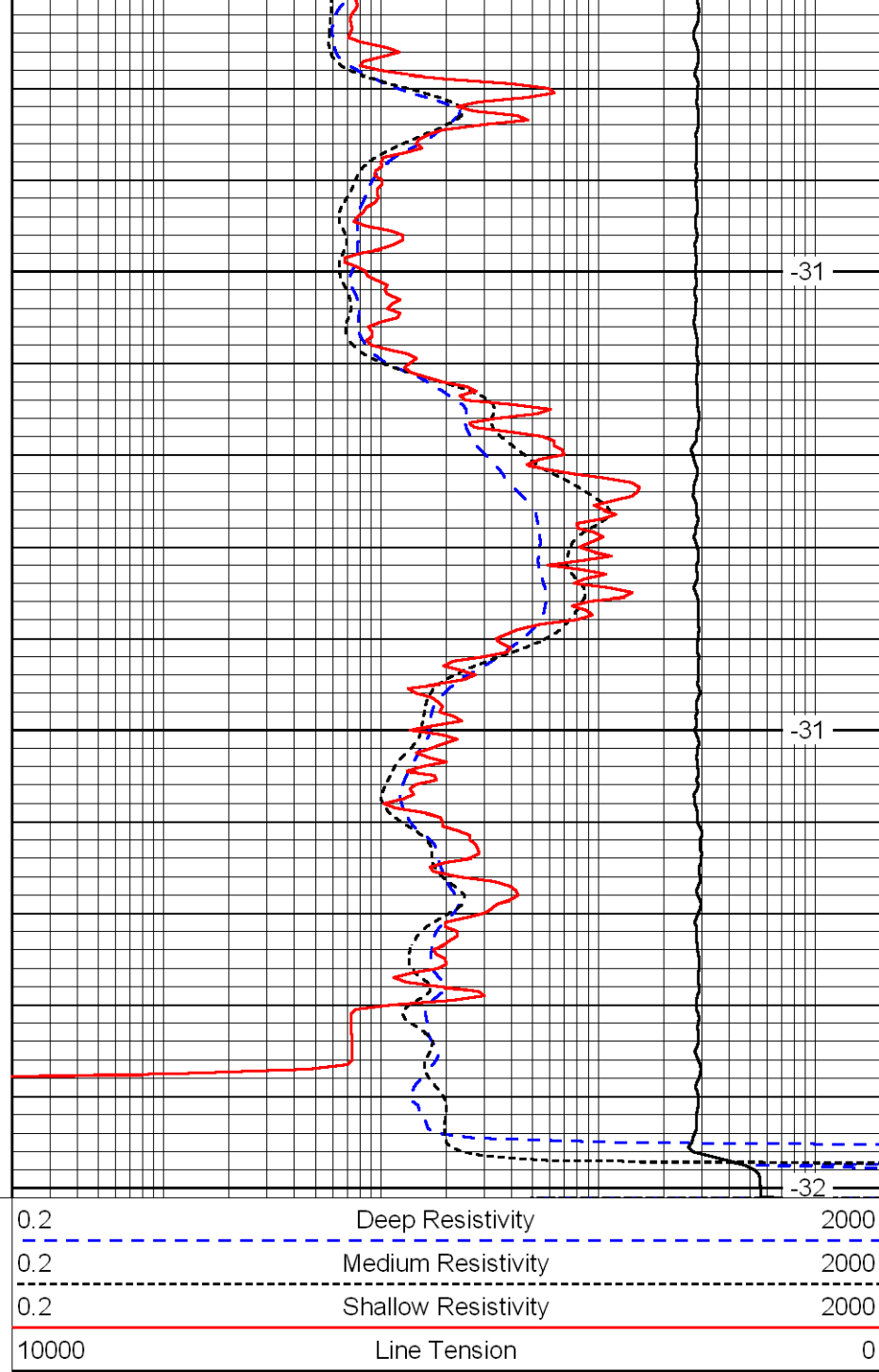
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3650

3700

3750



-31

-31

-32

LSPD