



Dual Induction Log

Pioneer Energy Services

API No.

15-095-22,279-00-00

Company Molitor Oil, Inc.

Well Cross #4

Field Spivey-Grabs-Basil

County Kingman State

Kansas

Location 1086' FNL & 330' FEL

Other Services
CNL/CDL
MEL

Sec: 31 Twp: 29S Rge: 8W

Permanent Datum Ground Level Elevation 1561
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1571
D.F.
G.L. 1561

Date 11/17/2013

Run Number One

Depth Driller 4499

Depth Logger 4506

Bottom Logged Interval 4505

Top Log Interval 200

Casing Driller 8.625 @ 221

Casing Logger 221

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 2,000

Density / Viscosity 9.1 46

pH / Fluid Loss 10.0 9.6

Source of Sample Flowline

Rm @ Meas. Temp .85 @ 60

Rmf @ Meas. Temp .64 @ 60

Rmc @ Meas. Temp 1.15 @ 60

Source of Rmf / Rmc Charts

Rm @ BHT .42 @ 121

Operating Rig Time 4 Hours

Max Rec. Temp. F 121

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Max Lovely

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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

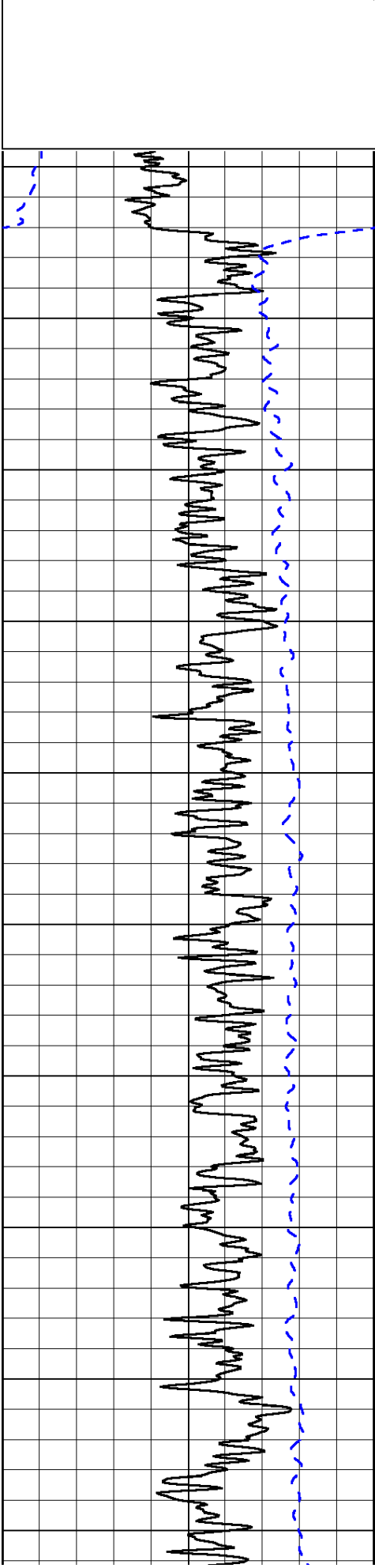
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Zenda KS, 3 N,
4 E, 1/4 S, W Into

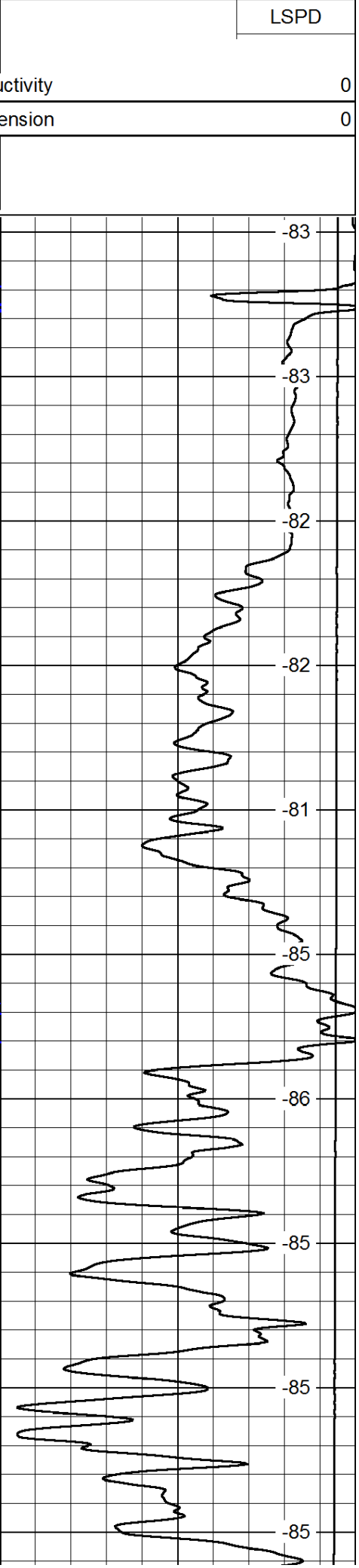
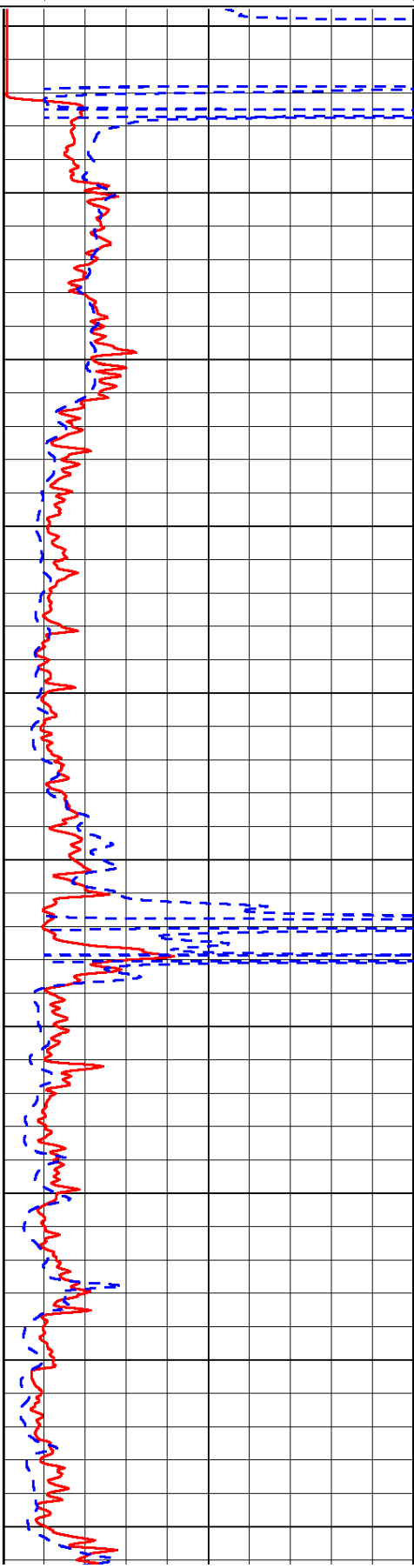
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Presentation Format: dil2in
Dataset Creation: Sun Nov 17 13:25:25 2013
Charted by: Depth in Feet scaled 1:600

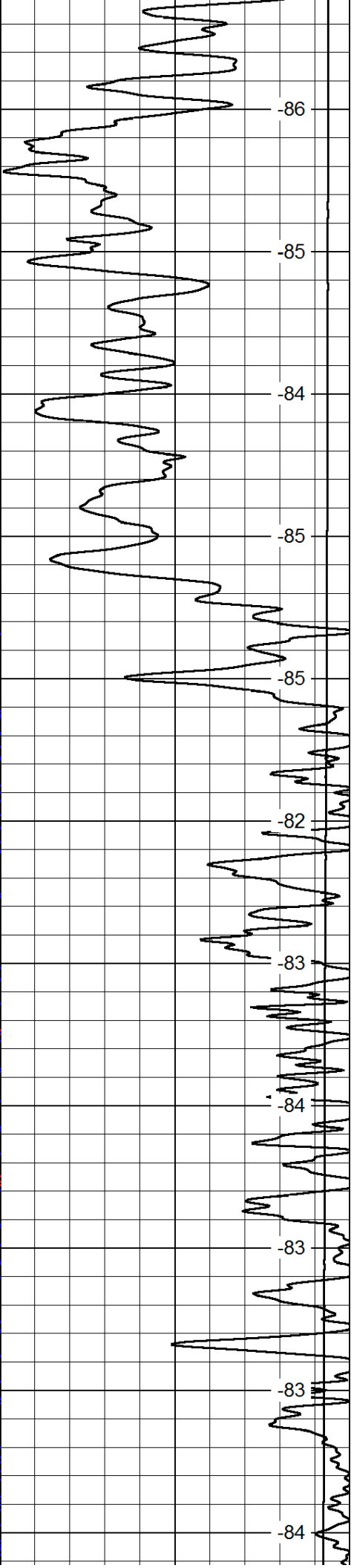
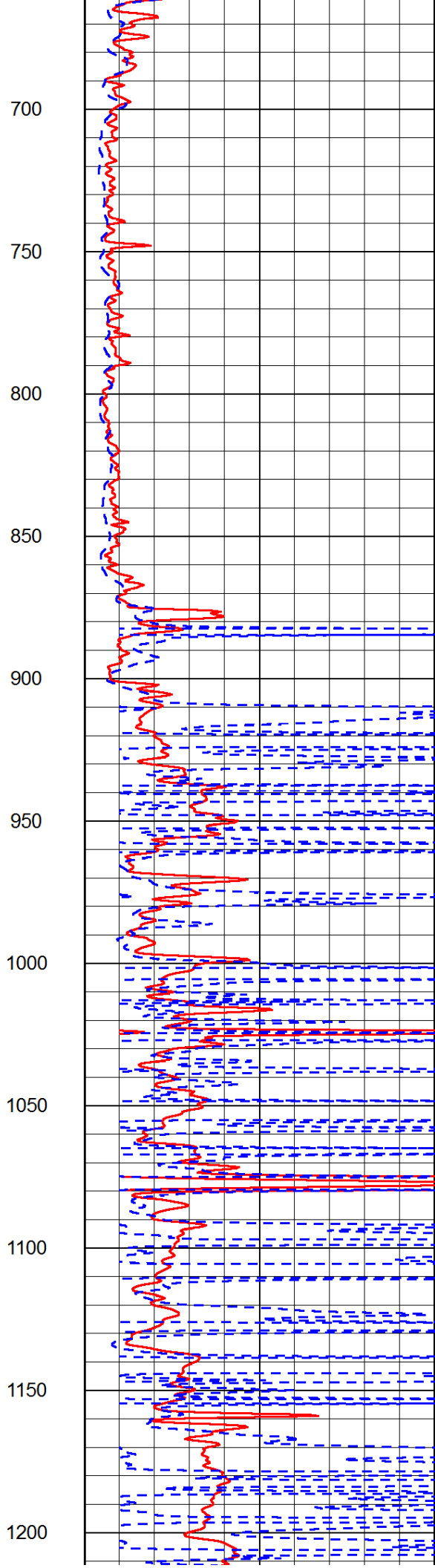
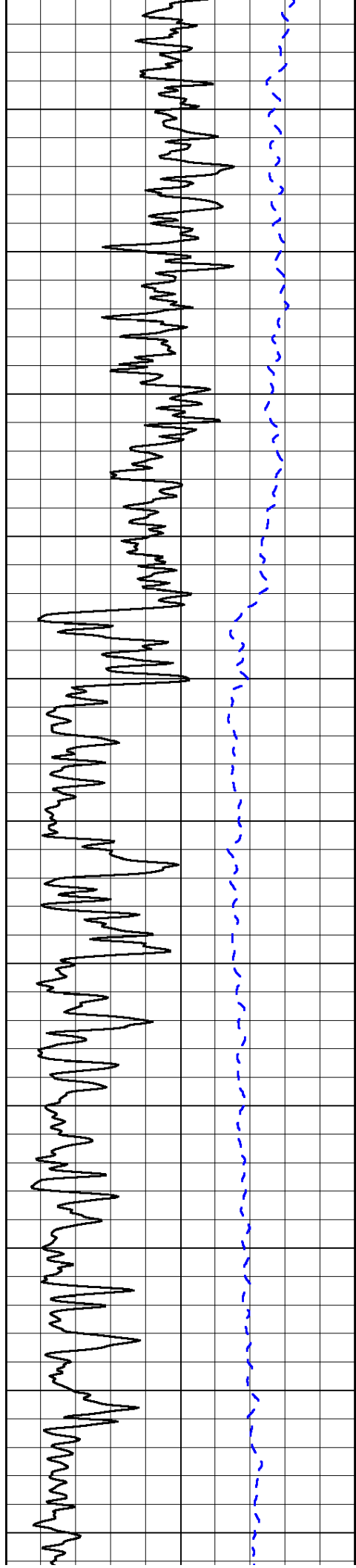
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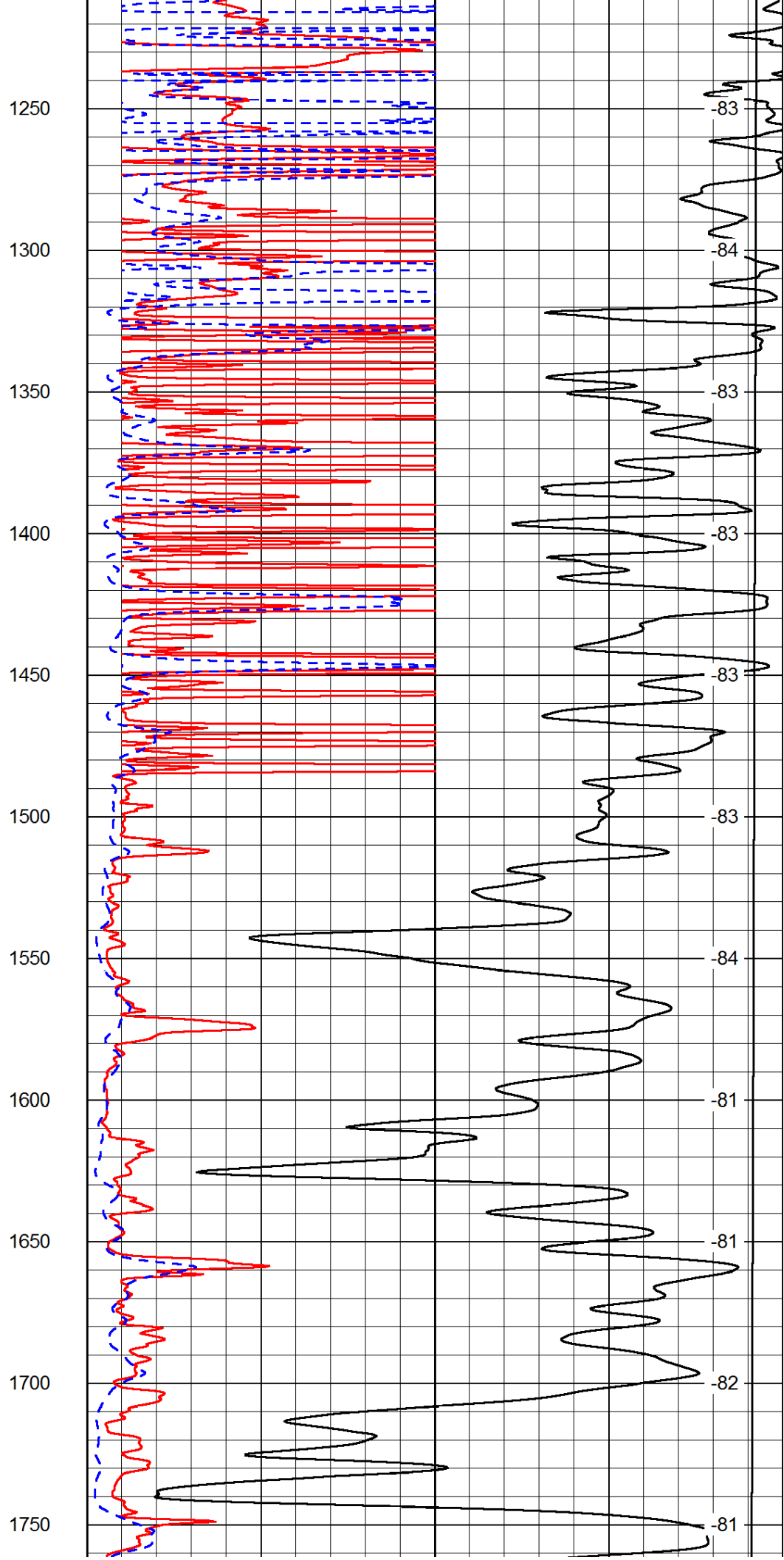
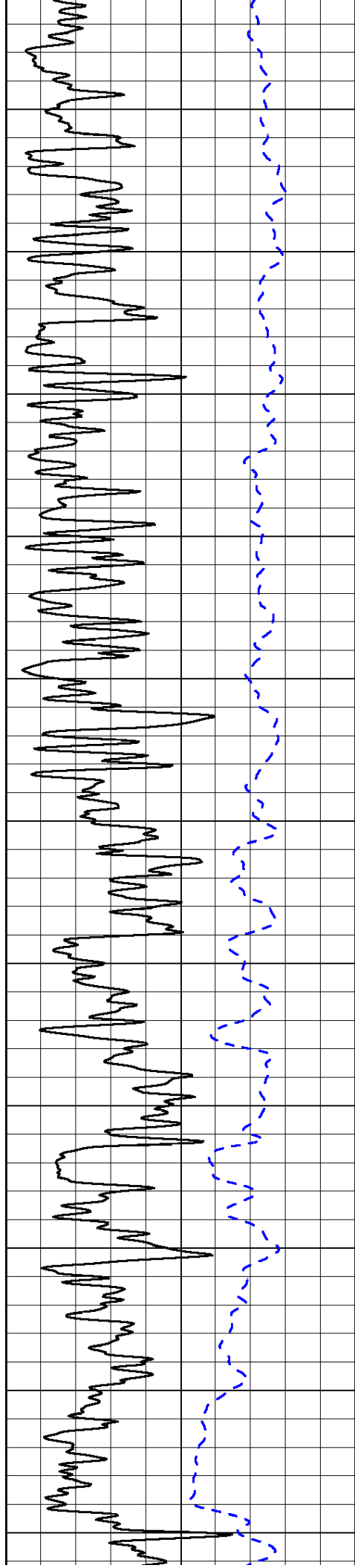
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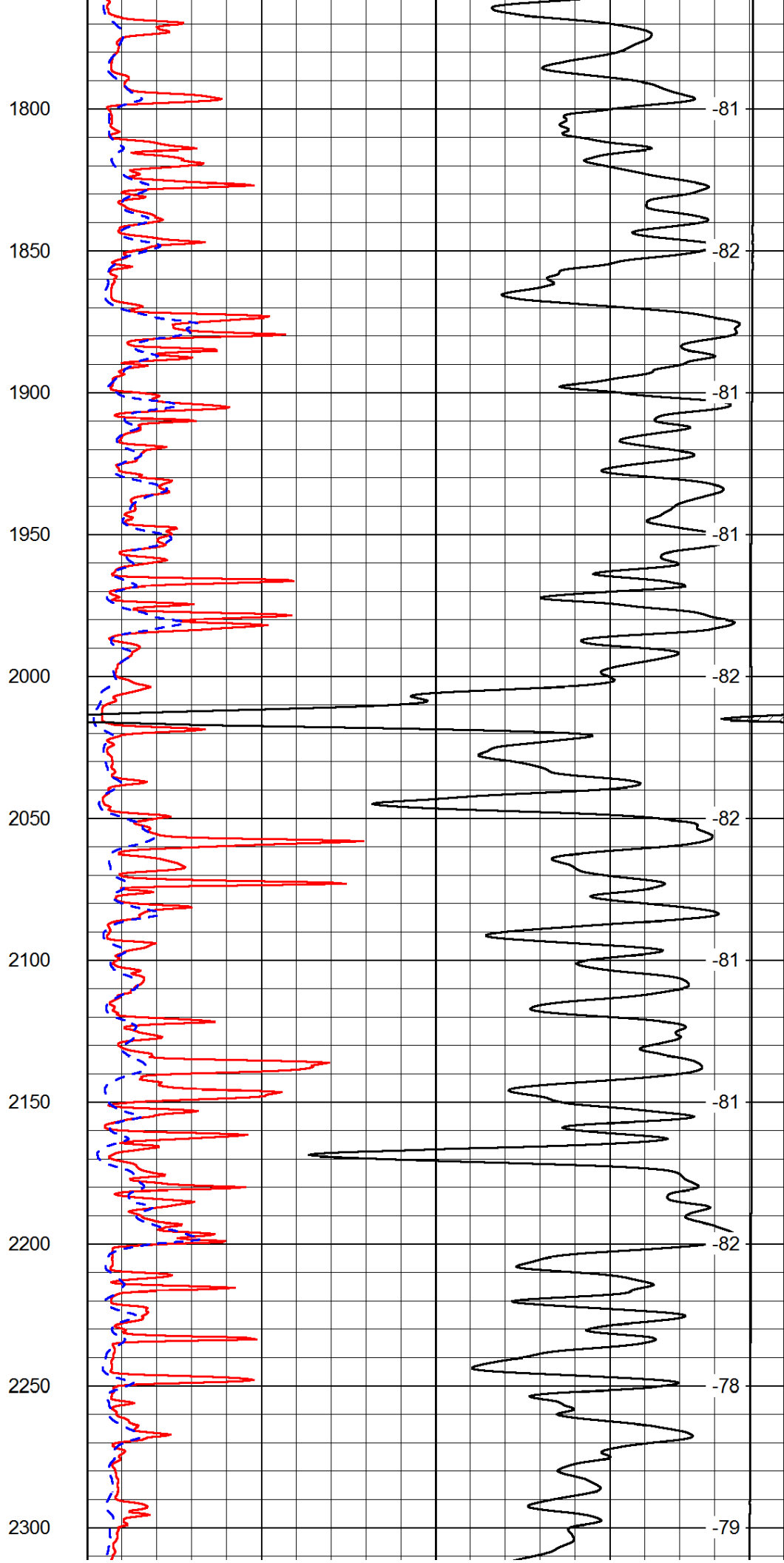
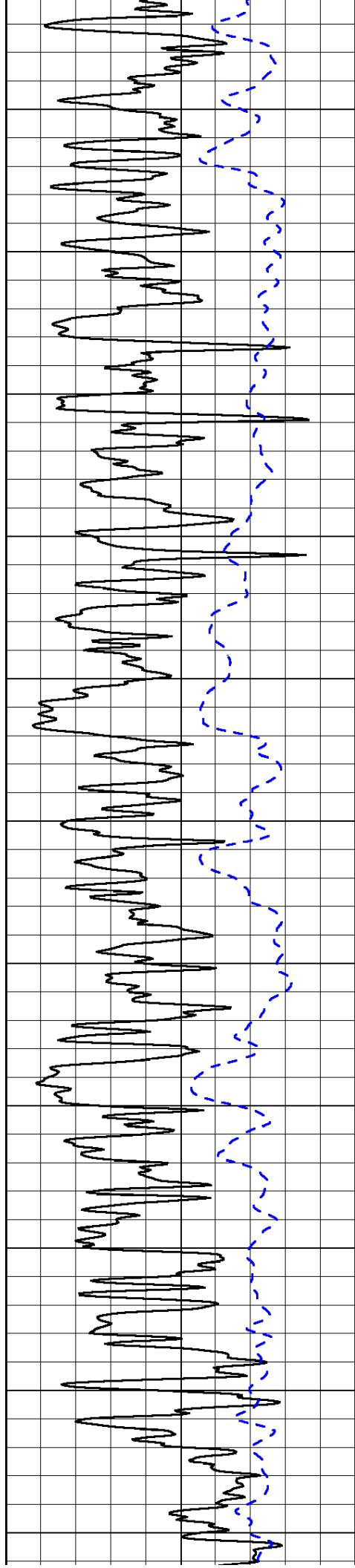


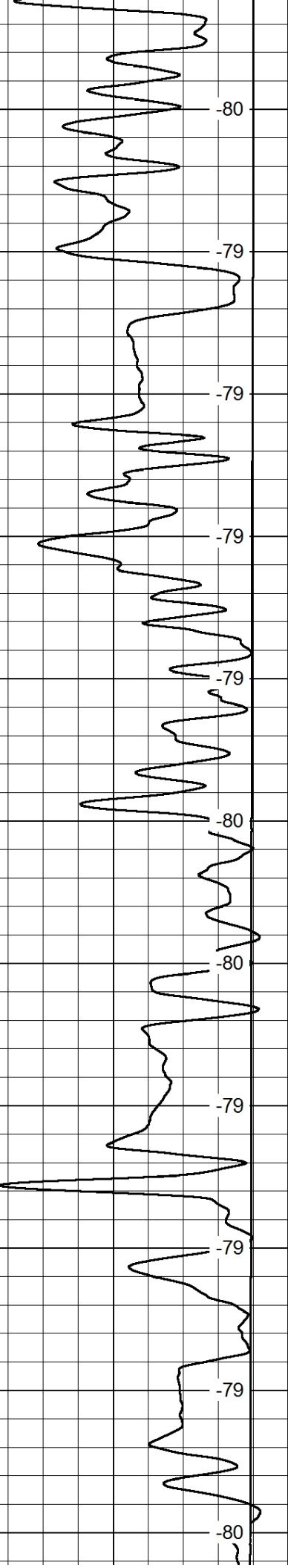
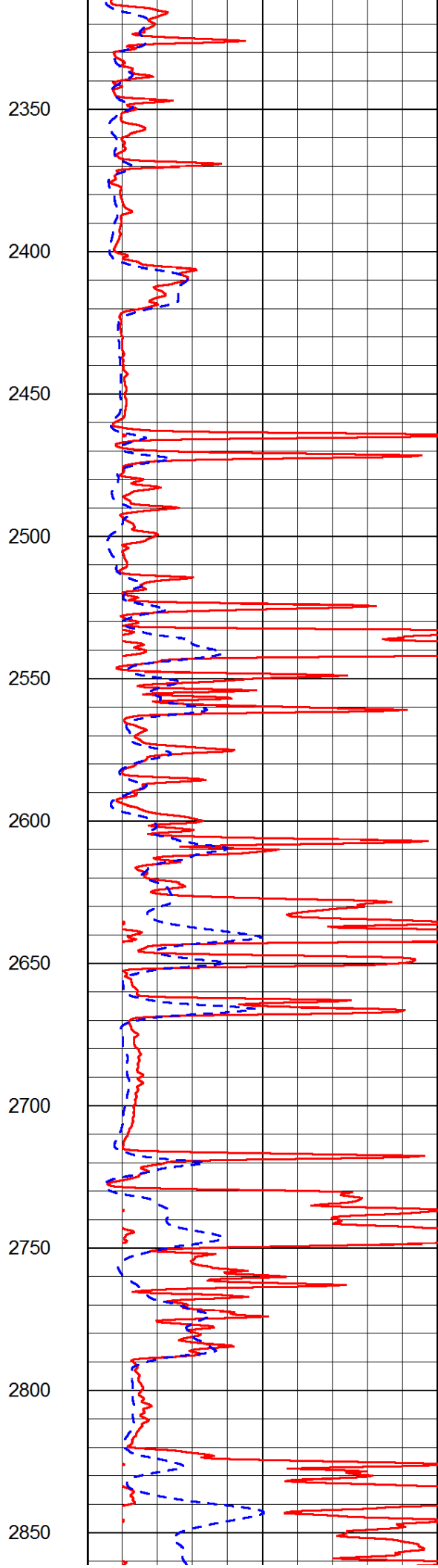
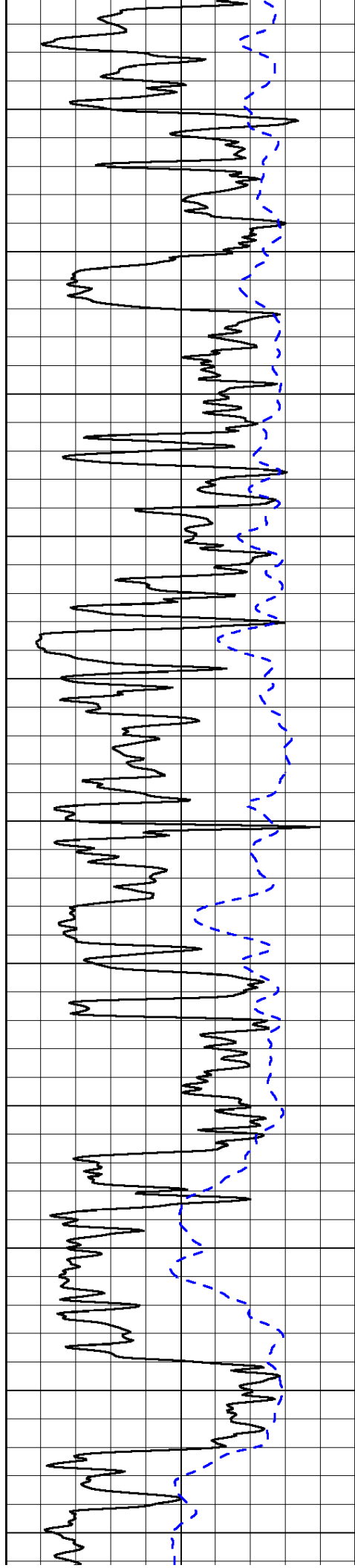
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0
50	Shallow Resistivity	500
50	Deep Resistivity	500

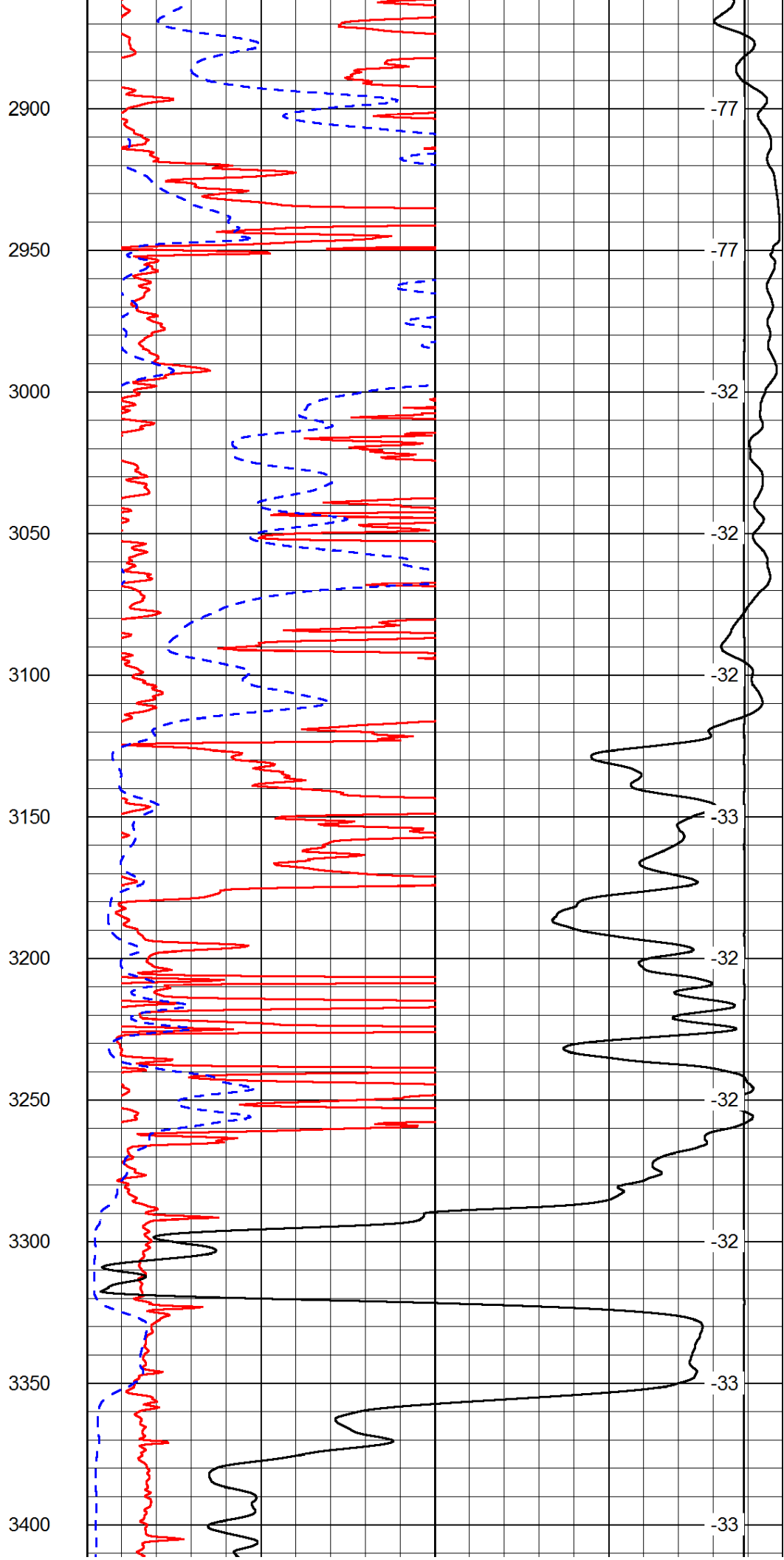
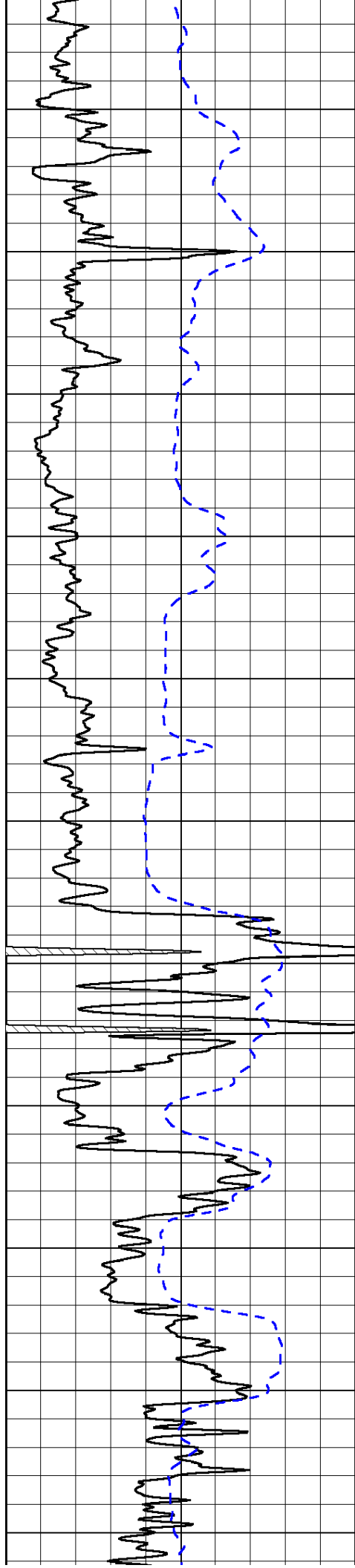


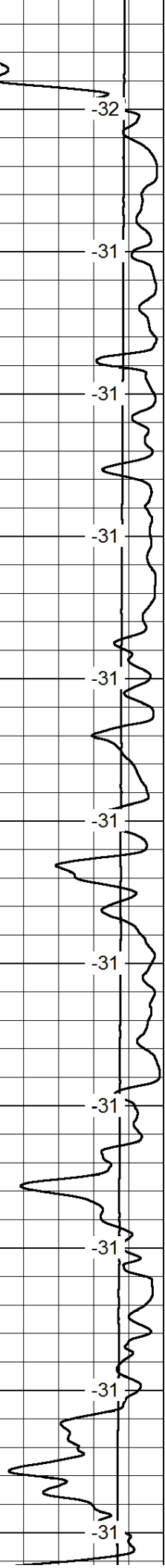
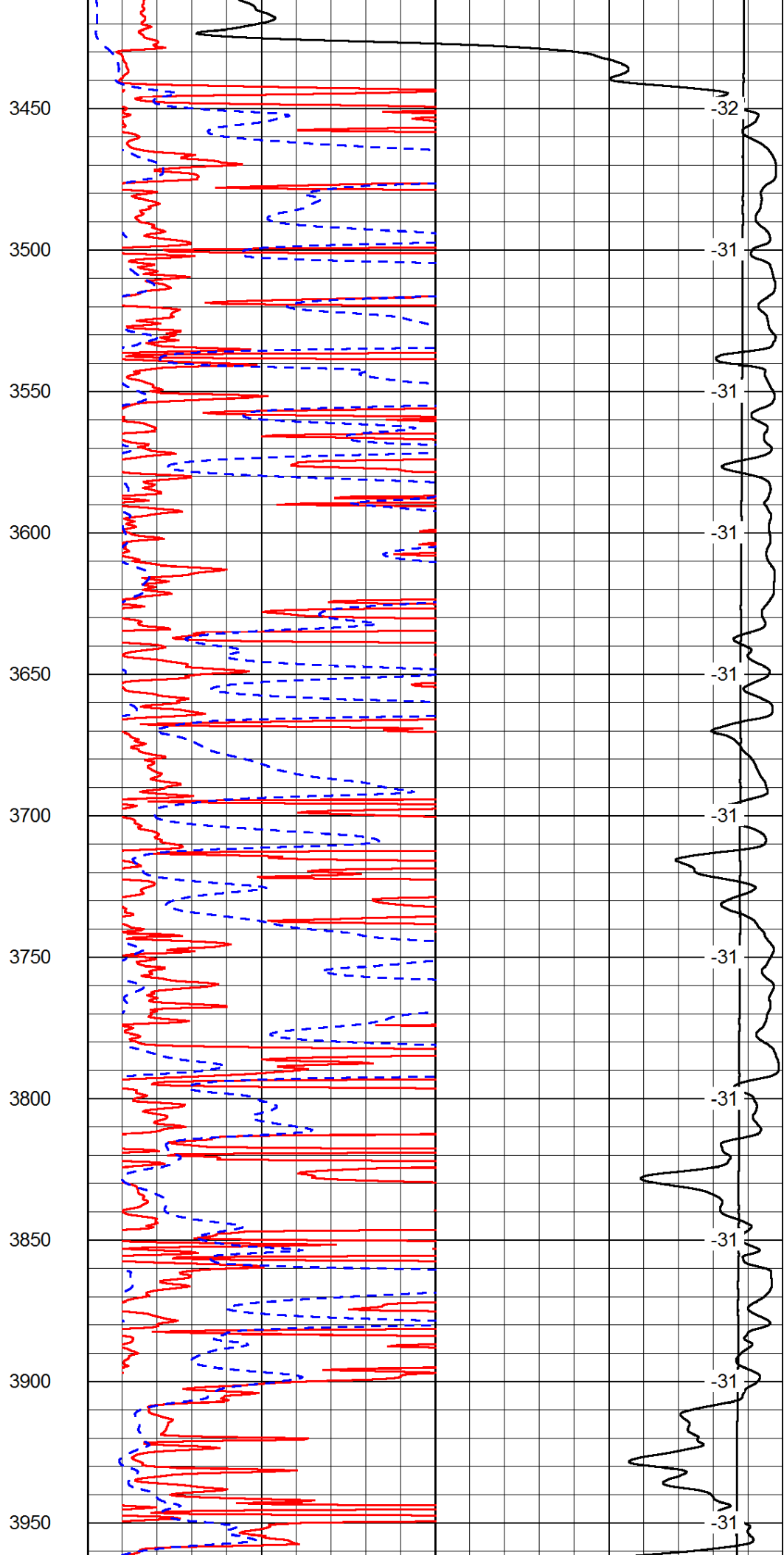
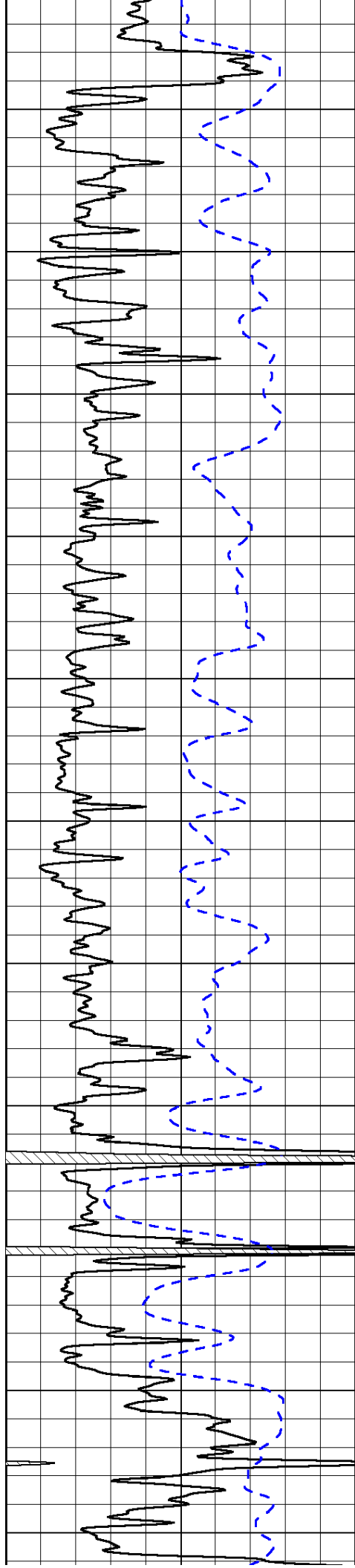


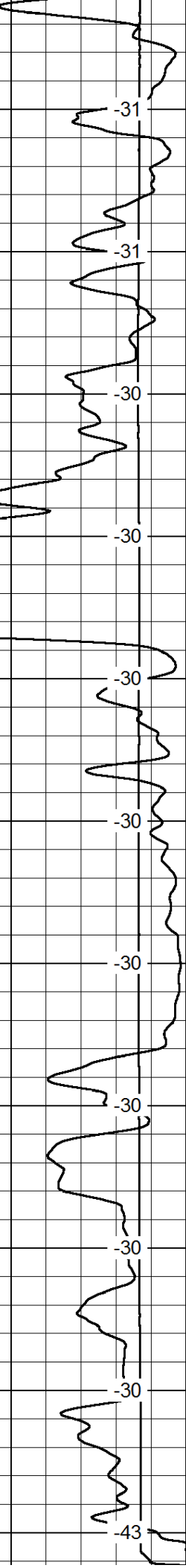
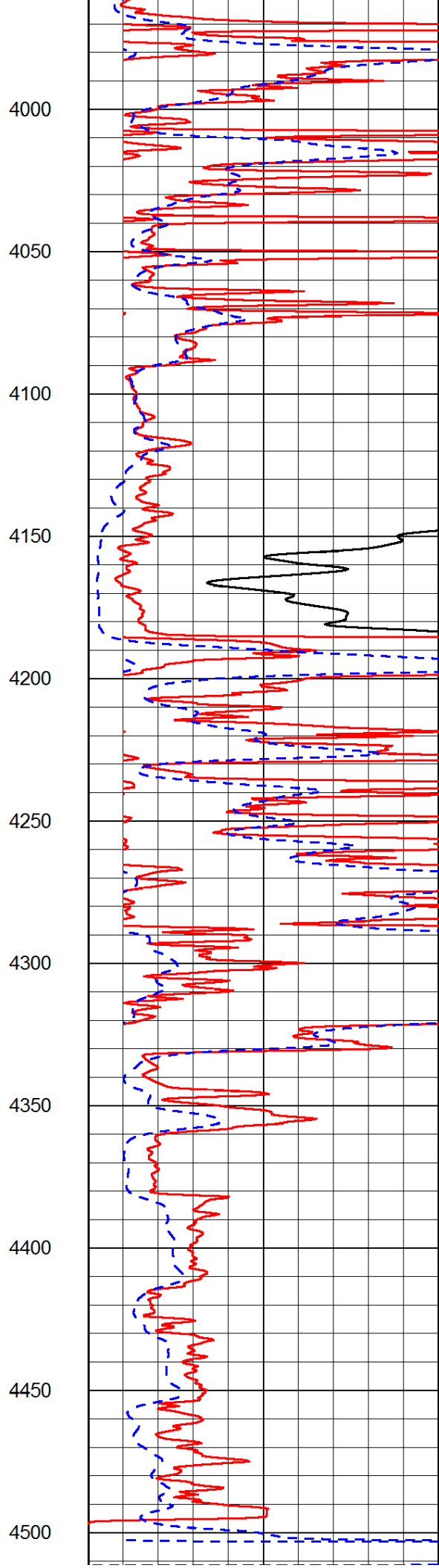
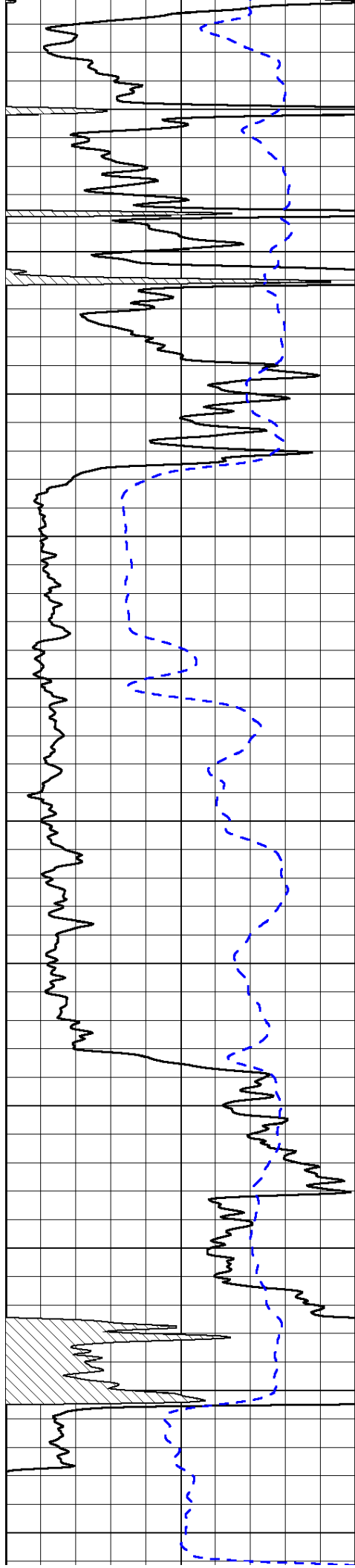






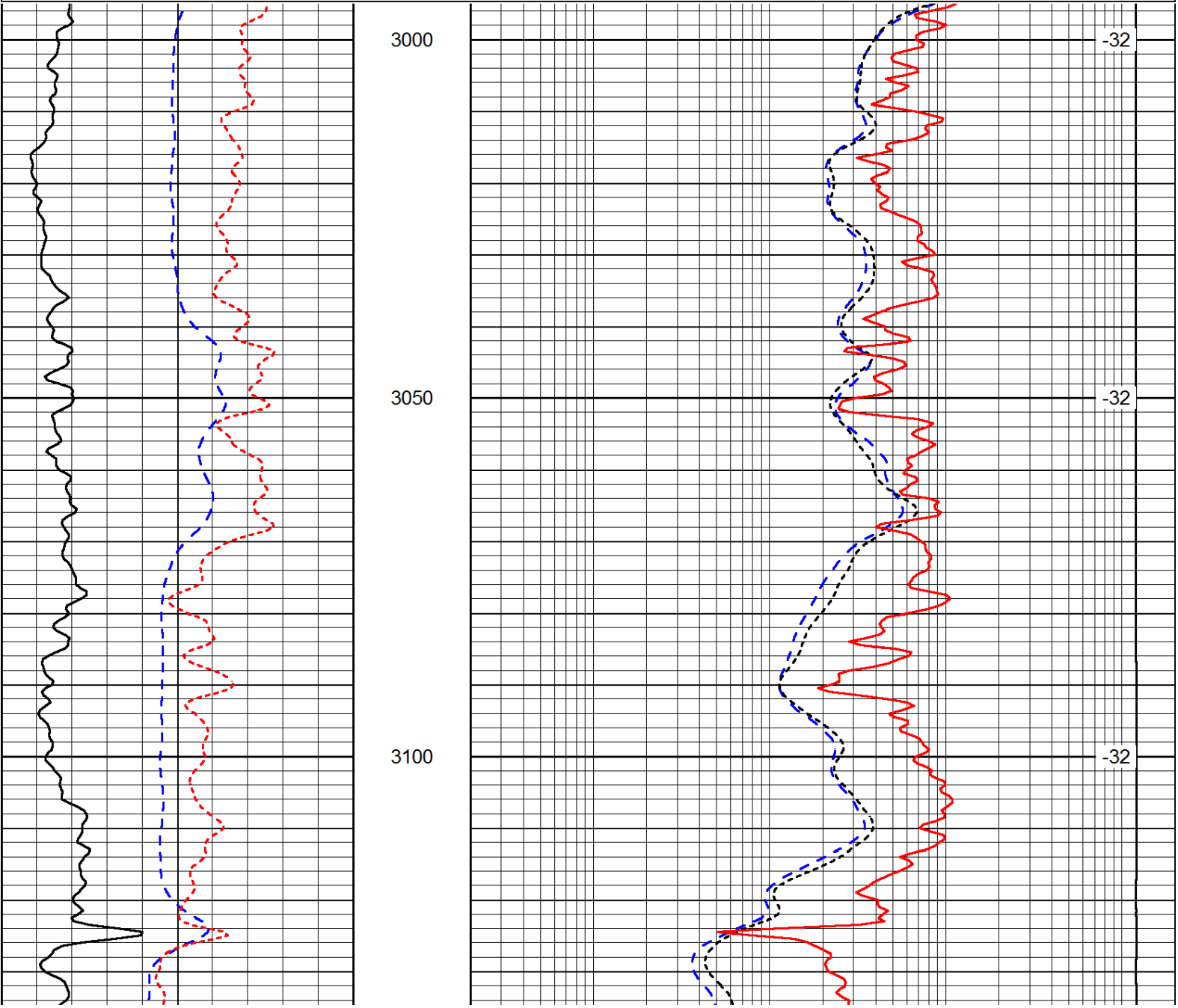


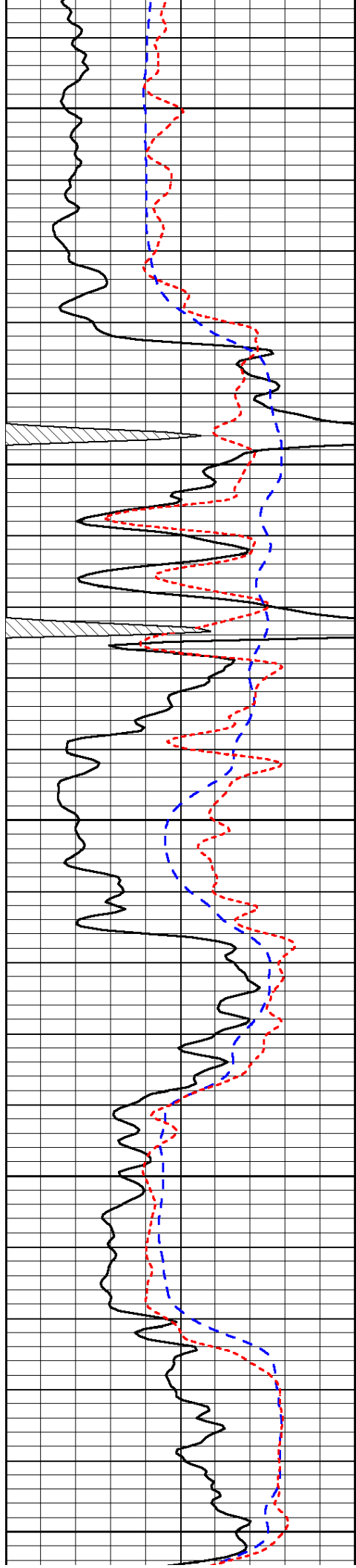




0	Gamma Ray	150	0	Shallow Resistivity	50	LSPD
-200	SP (mV)	0	0	Deep Resistivity	50	
1000					Conductivity	0
15000					Line Tension	0
50	Shallow Resistivity	500				
50	Deep Resistivity	500				

Database File: c:\warrior\data\molitor oil_cross #4\molitorhd.db						
Dataset Pathname: dil/molstk						
Presentation Format: dil						
Dataset Creation: Sun Nov 17 13:25:25 2013						
Charted by: Depth in Feet scaled 1:240						
0	Gamma Ray	150	0.2	Deep Resistivity	2000	
-200	SP (mV)	0	0.2	Medium Resistivity	2000	
-160	RxoRt	40	0.2	Shallow Resistivity	2000	
15000					Line Tension	0
						LSPD





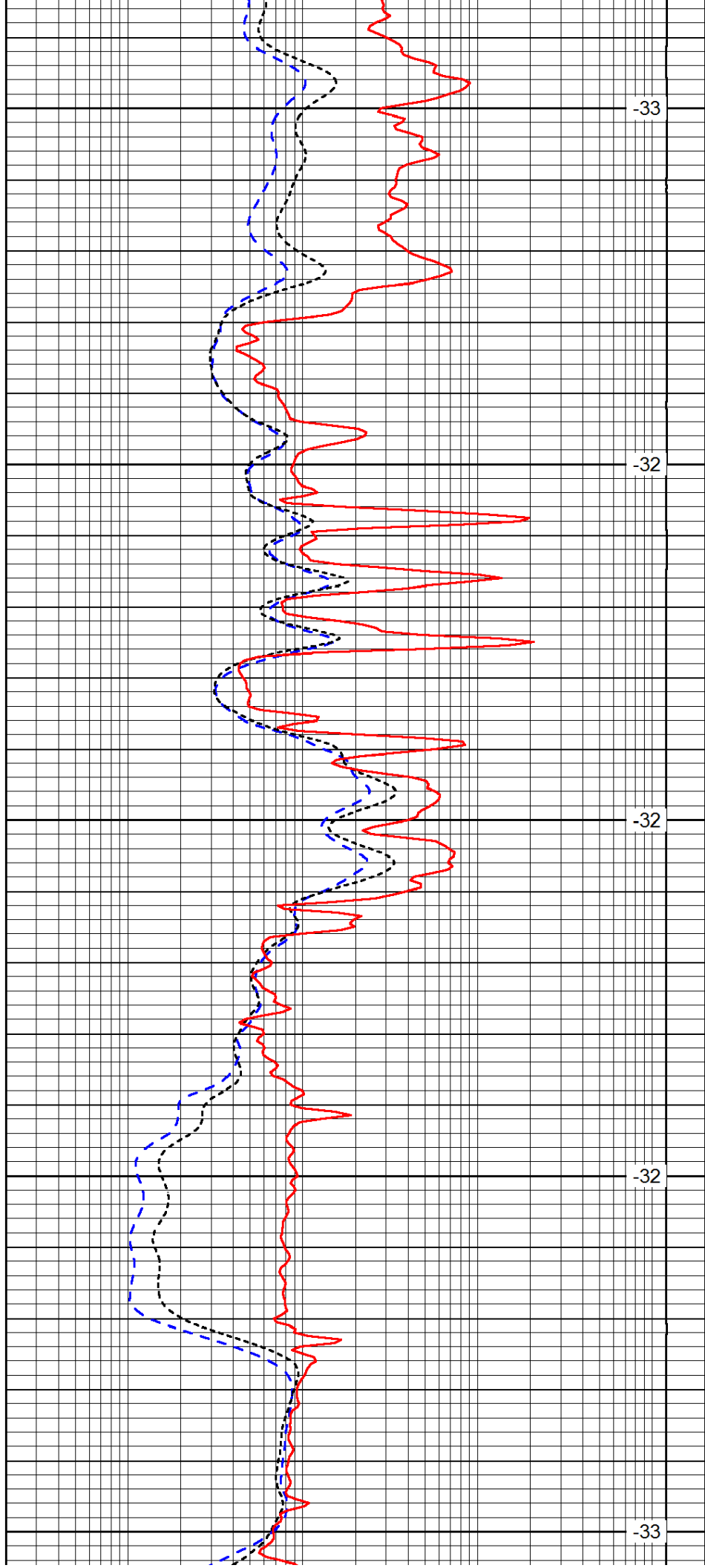
3150

3200

3250

3300

3350



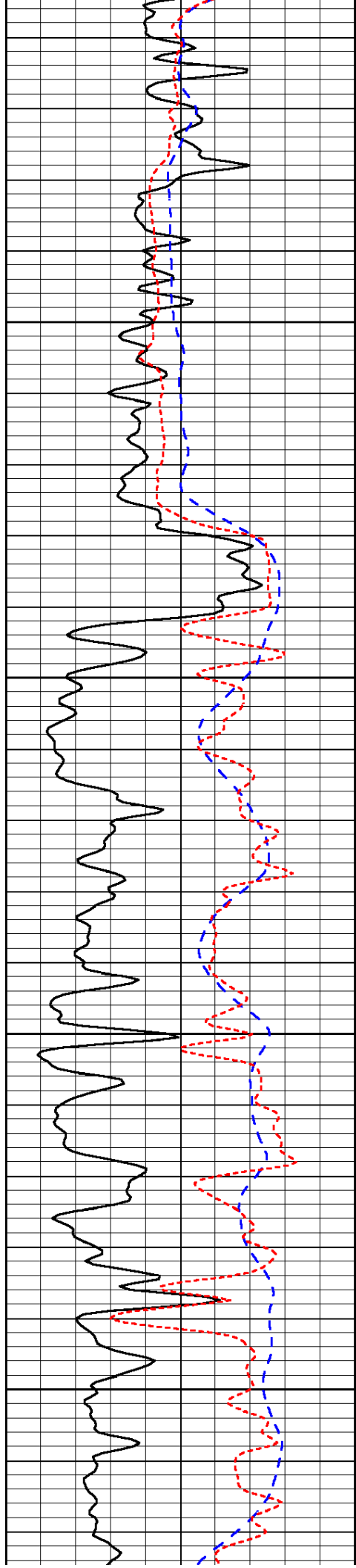
-33

-32

-32

-32

-33

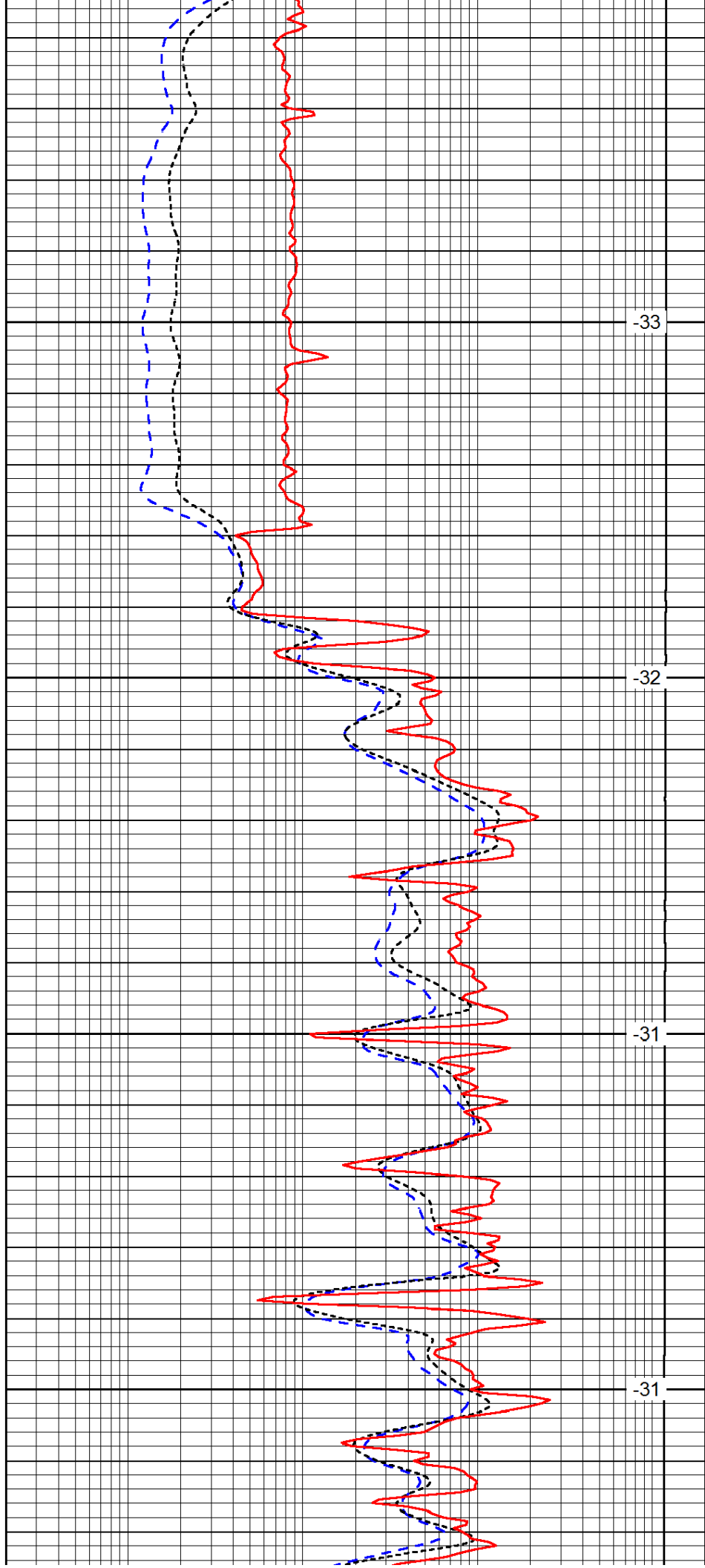


3400

3450

3500

3550

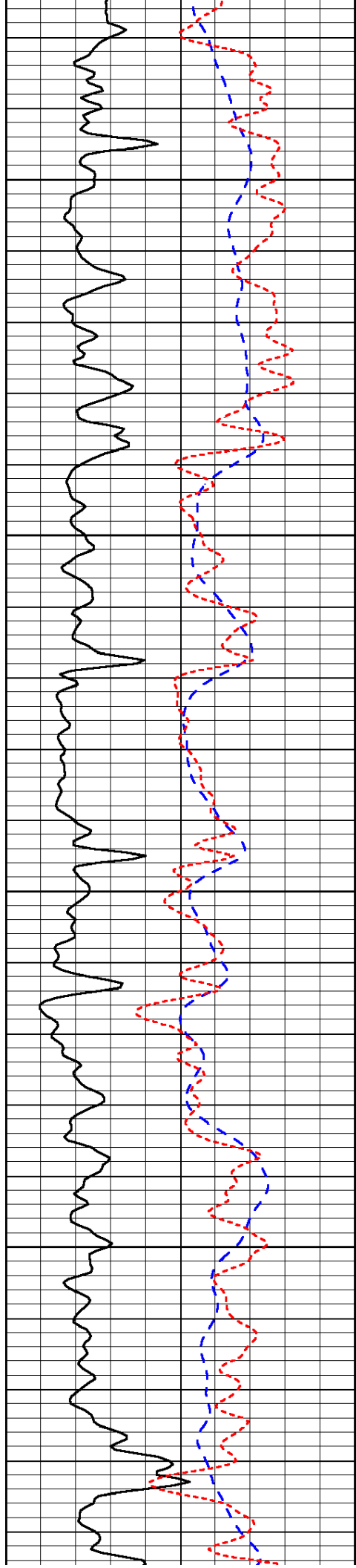


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-32

-31

-31

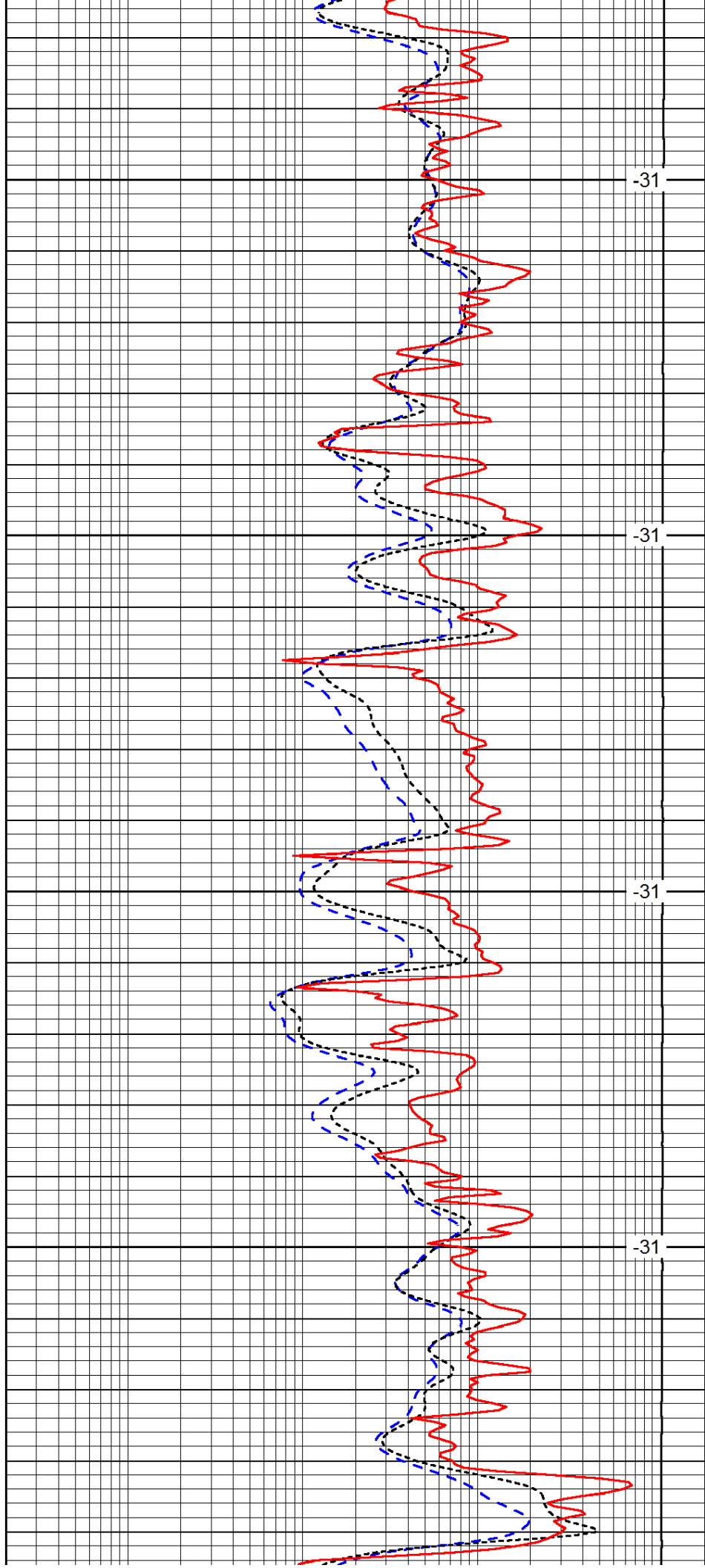


3600

3650

3700

3750

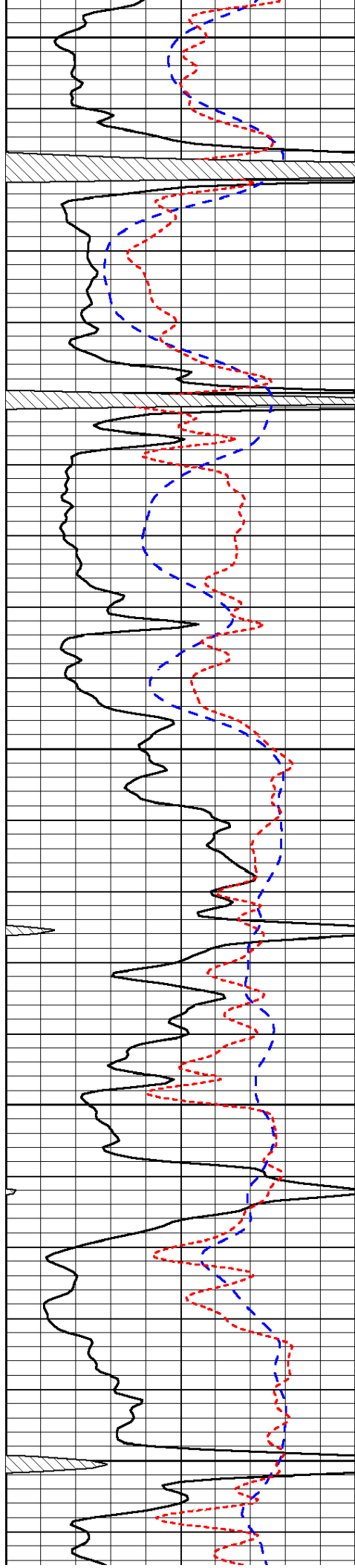


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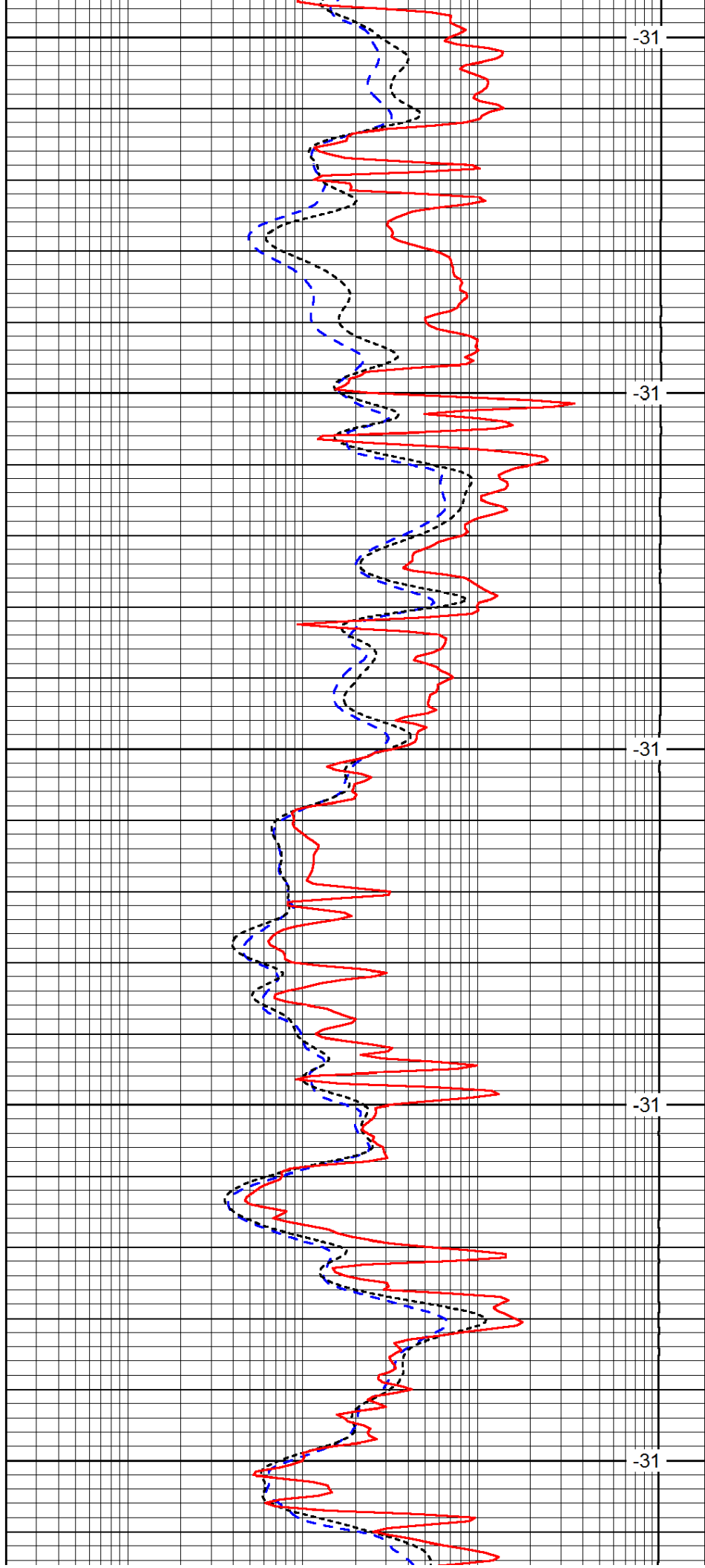
3800

3850

3900

3950

4000



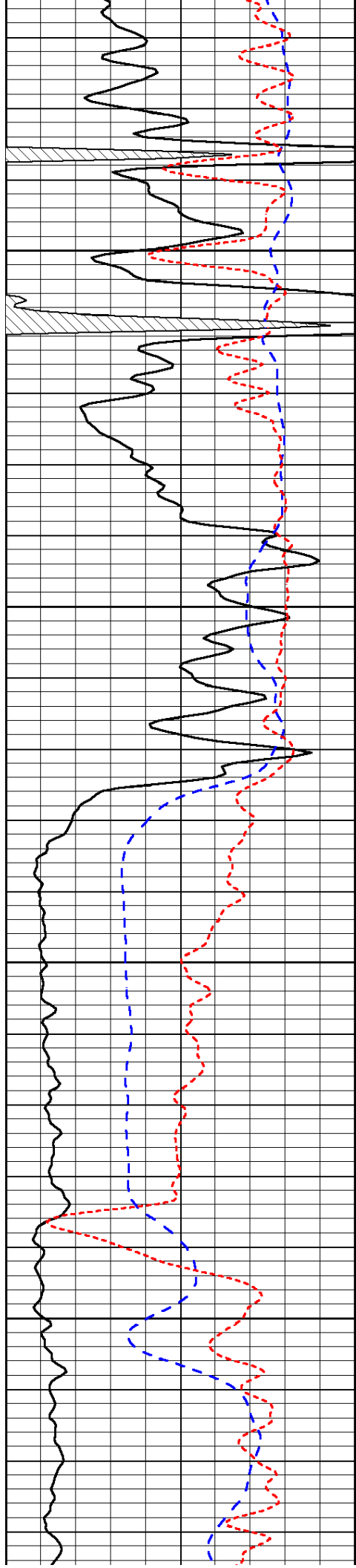
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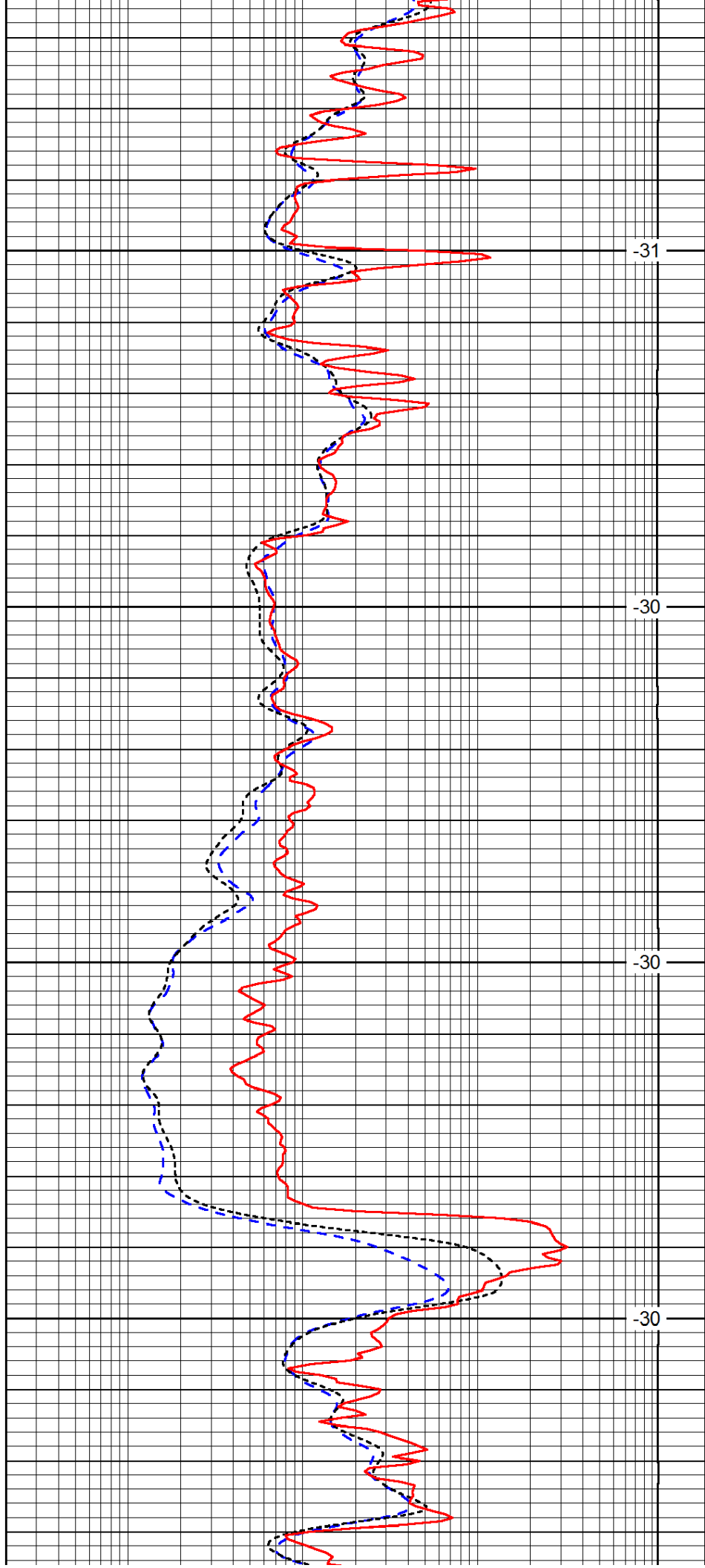


4050

4100

4150

4200

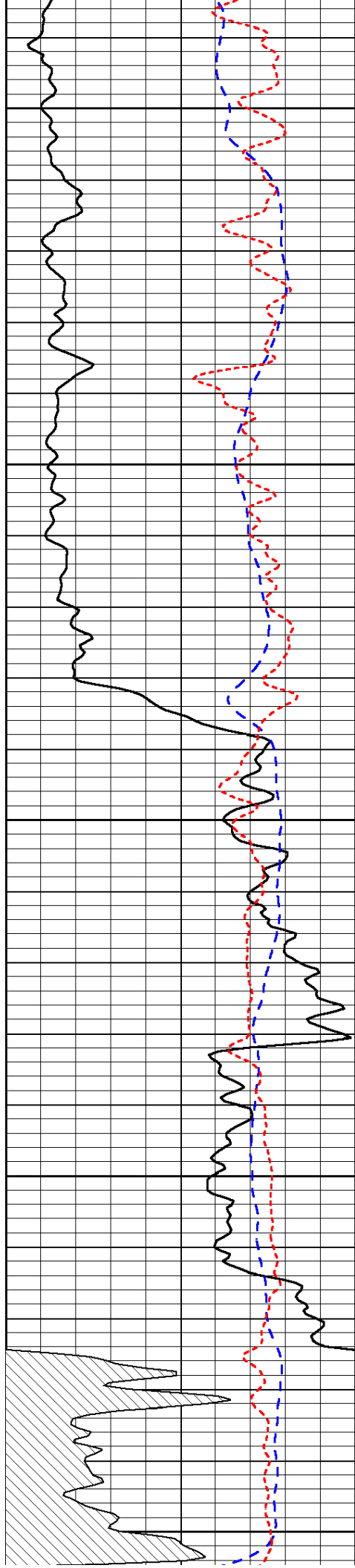


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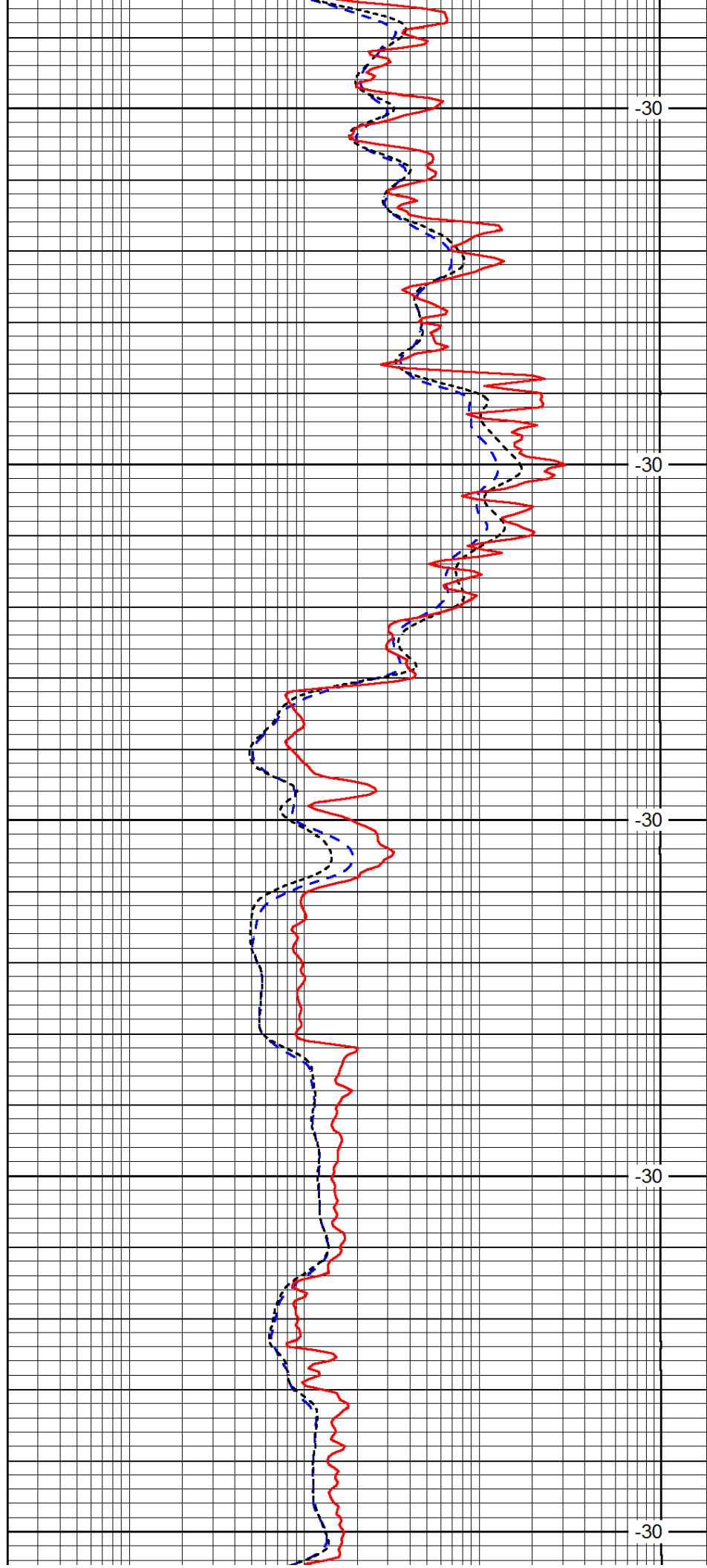
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4300

4350

4400

4450



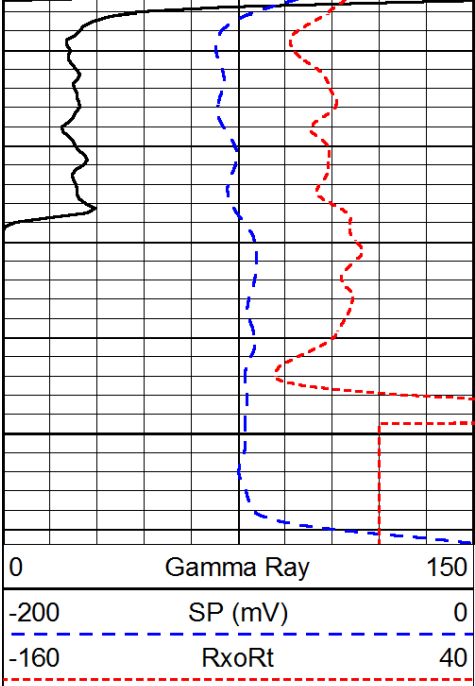
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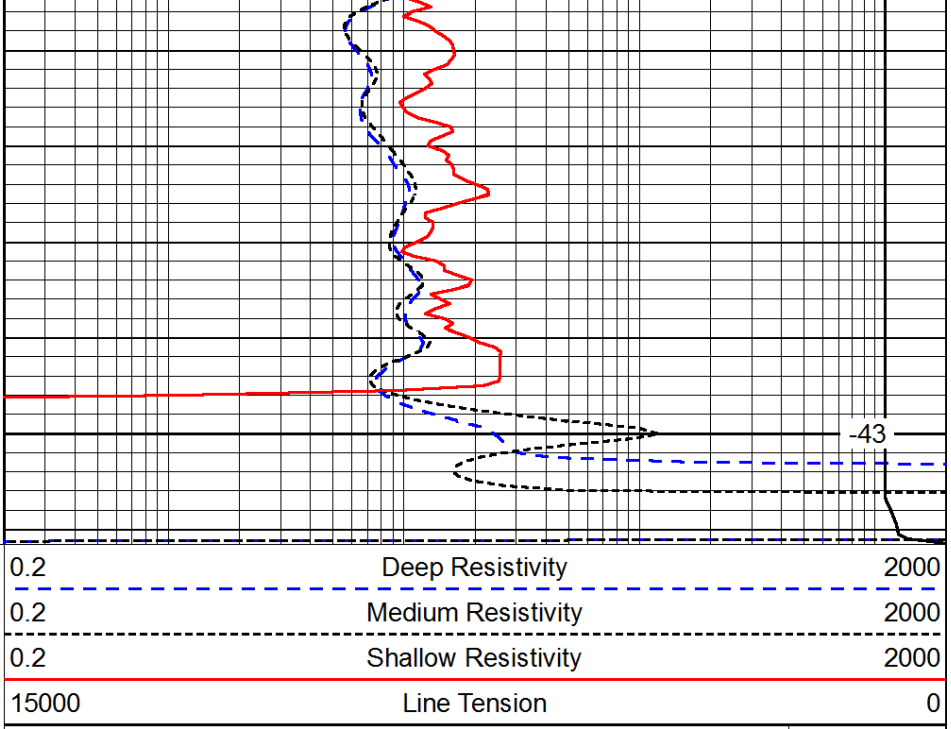
-30

-30

-30



4500



-43

LSPD