



PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company **CHARLES N. GRIFFIN**
Well **SHARRON #1**
Field **TONI-MIKE**
County **BARBER** State **KANSAS**

Location: API #: 15-007-24304-00-00

SEC 34 TWP 32S RGE 12W

Permanent Datum GROUND LEVEL Elevation 1584'

Log Measured From KELLY BUSHING

Drilling Measured From KELLY BUSHING

Other Services

CNL/CDL

Elevation

K.B. 1589'
D.F. N/A
G.L. 1584'

Date 8/3/2016

Run Number ONE

Depth Driller 4920'

Depth Logger 4921'

Bottom Logged Interval 4920'

Top Log Interval 300'

Casing Driller 8.625" @ 320'

Casing Logger 317'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 8000

Density / Viscosity 9.5 47

pH / Fluid Loss 11.0 12.2

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.20 @ 90

Rmf @ Meas. Temp 0.15 @ 90

Rmc @ Meas. Temp 0.27 @ 90

Source of Rmf / Rmc CHARTS

Rm @ BHT 0.14 @ 125

Operating Rig Time 3 HOURS

Max Rec. Temp. F 125

Equipment Number 91

Location COLBY

Recorded By D. SCHMIDT

Witnessed By BRUCE REED

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

MEDICINE LODGE,
SOUTH ON HWY 281 TO PLEASANT HILL RD,
1 1/2 WEST TO CG, CONTINUE ABOUT 1 1/2 WEST AND SOUTH TO LOCATION

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

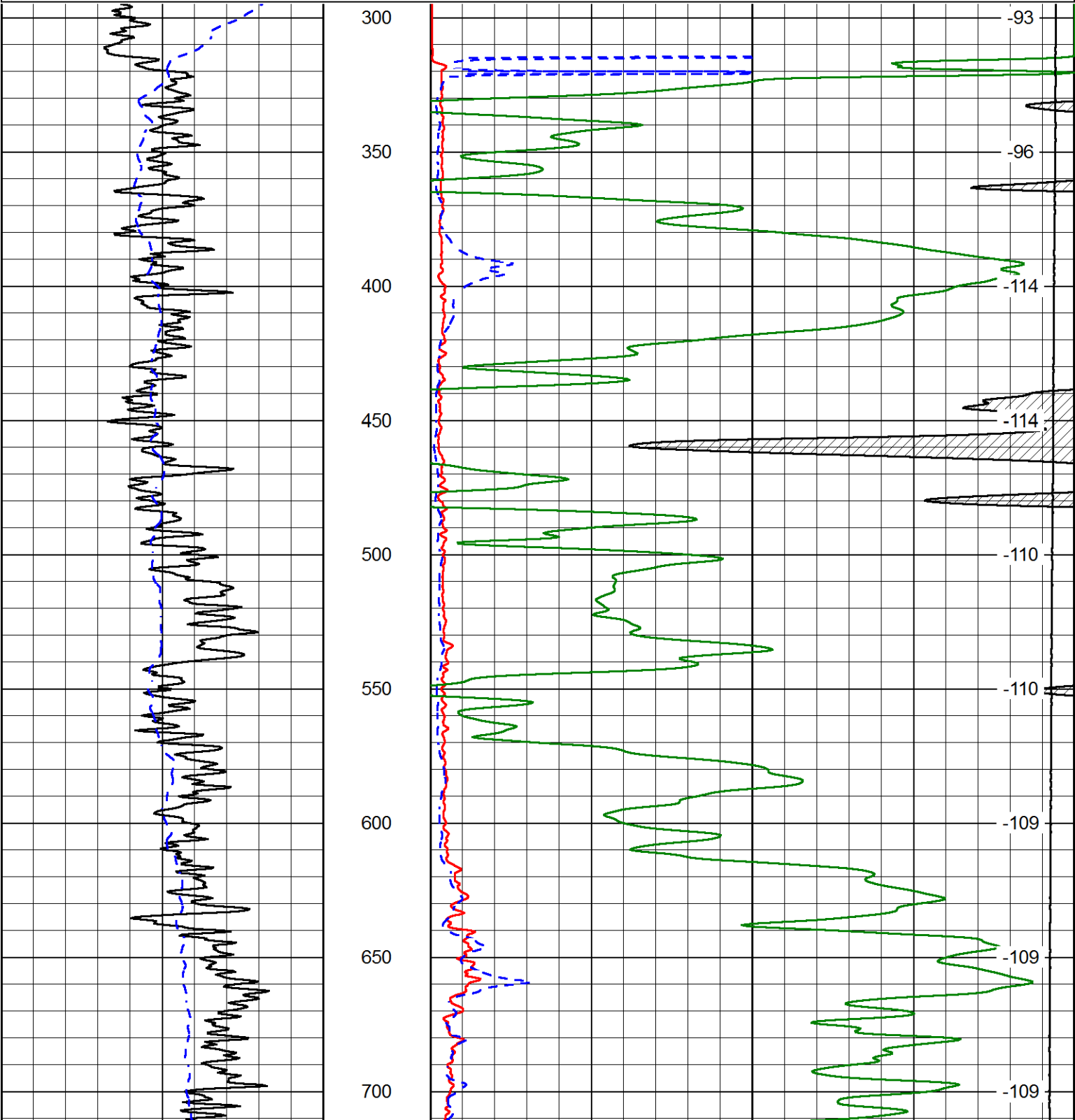
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

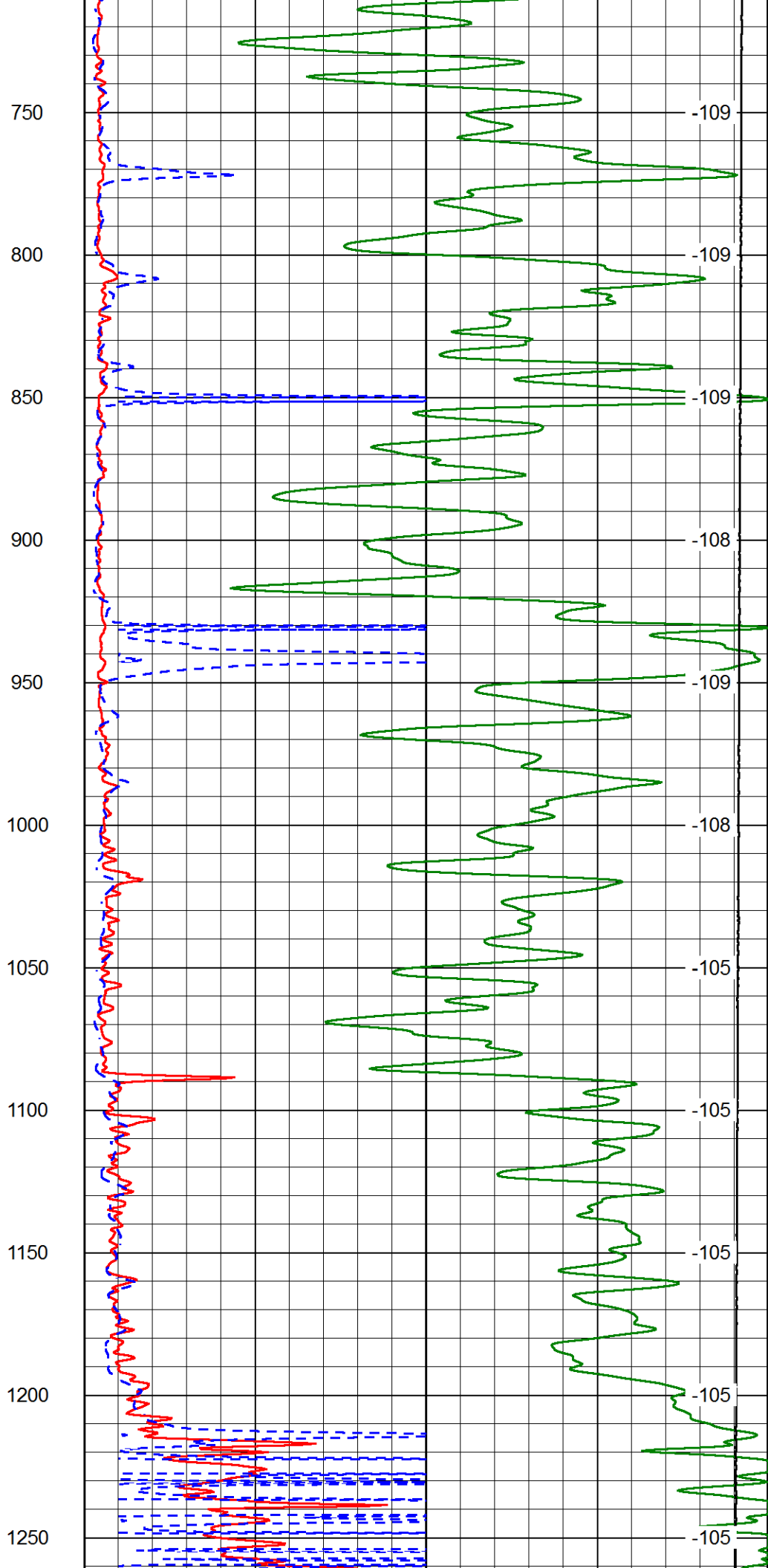
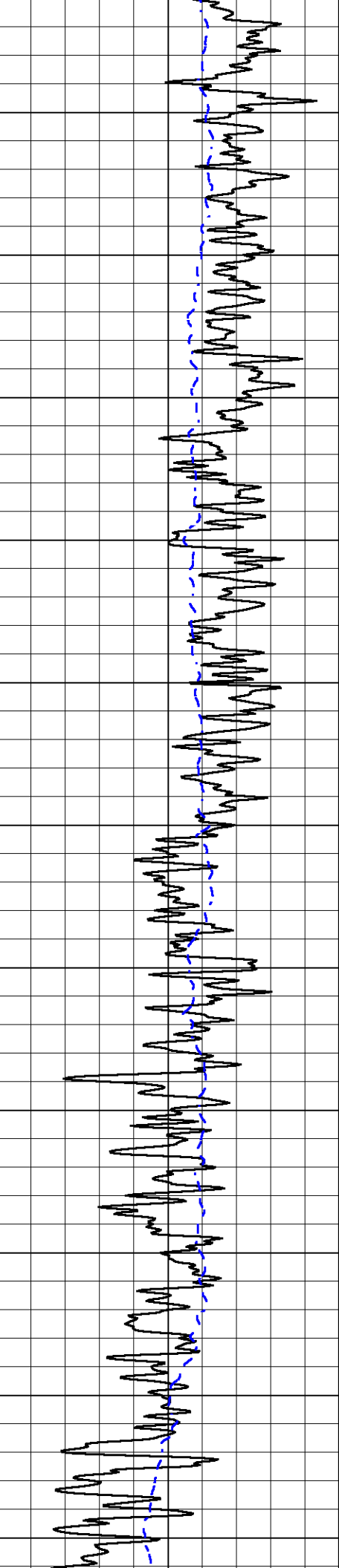
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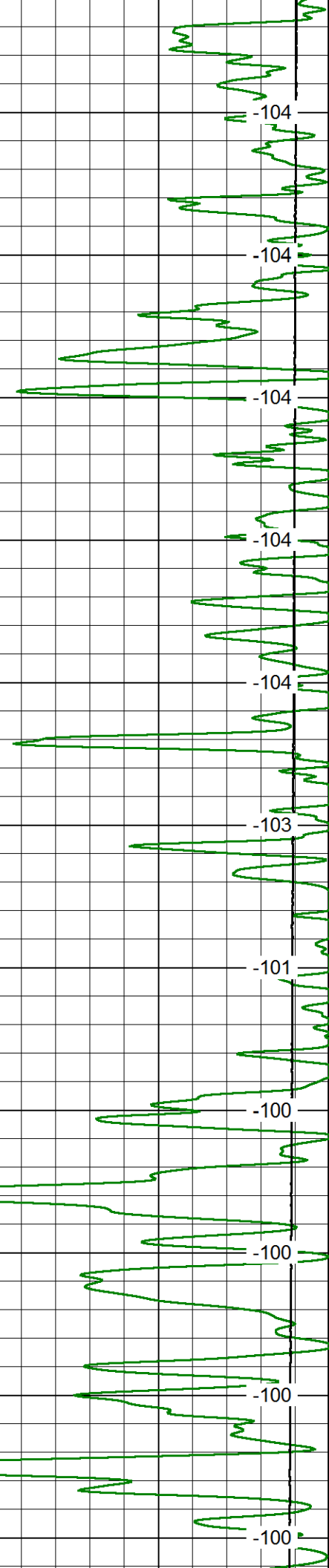
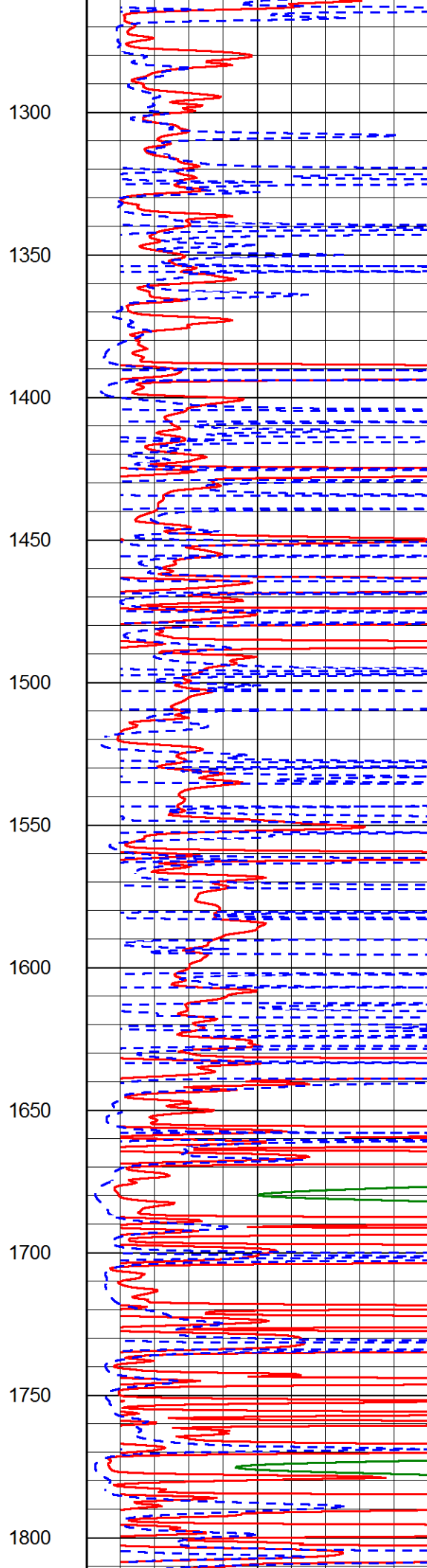
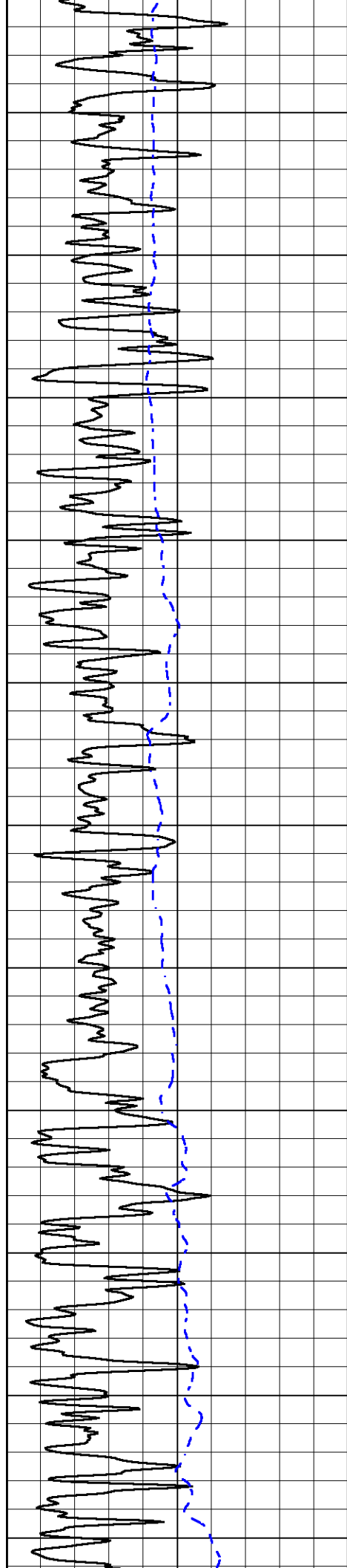
Primary Witness: BRUCE REED
Secondary Witness:
Secondary Witness:
Secondary Witness:

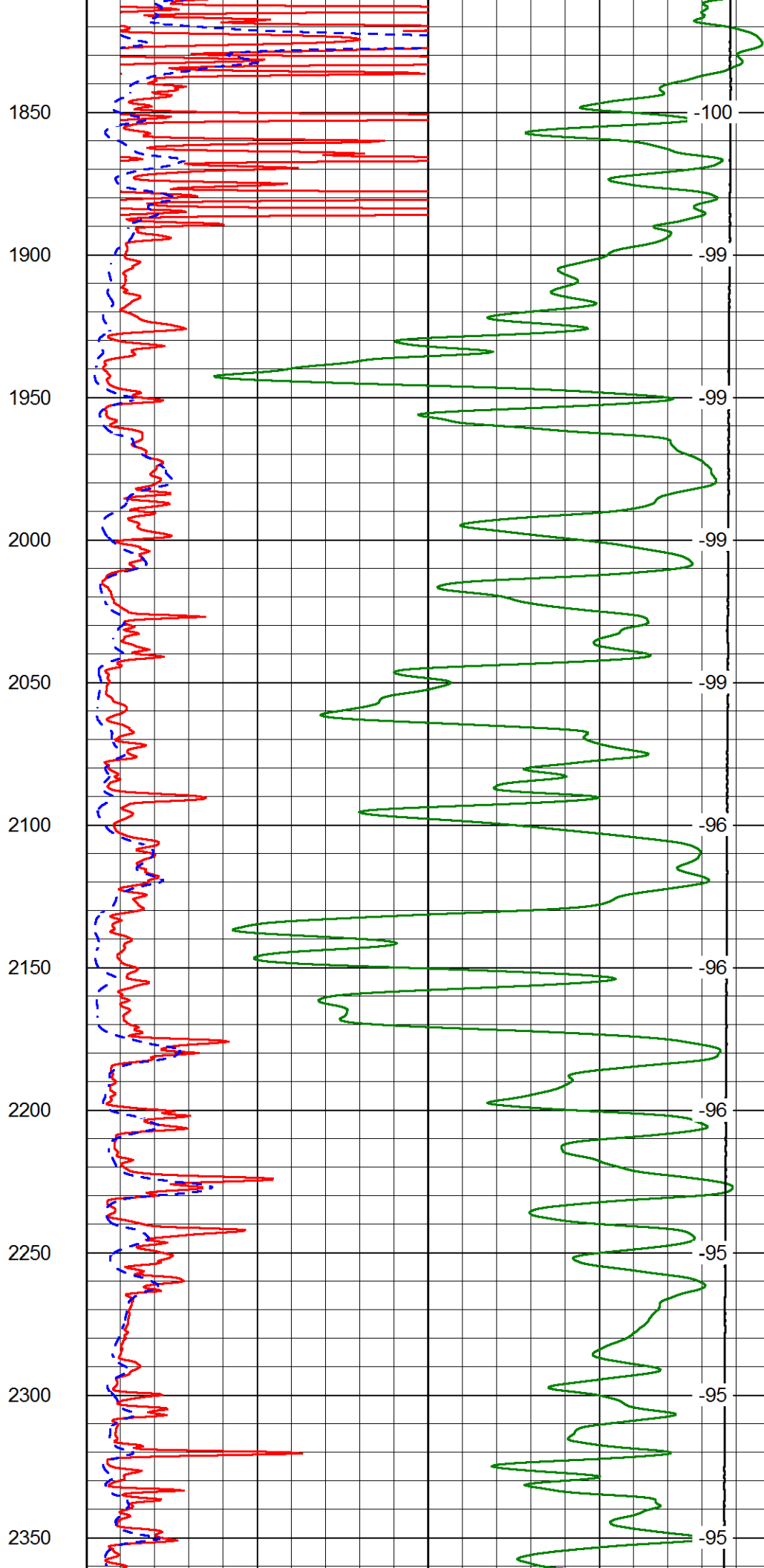
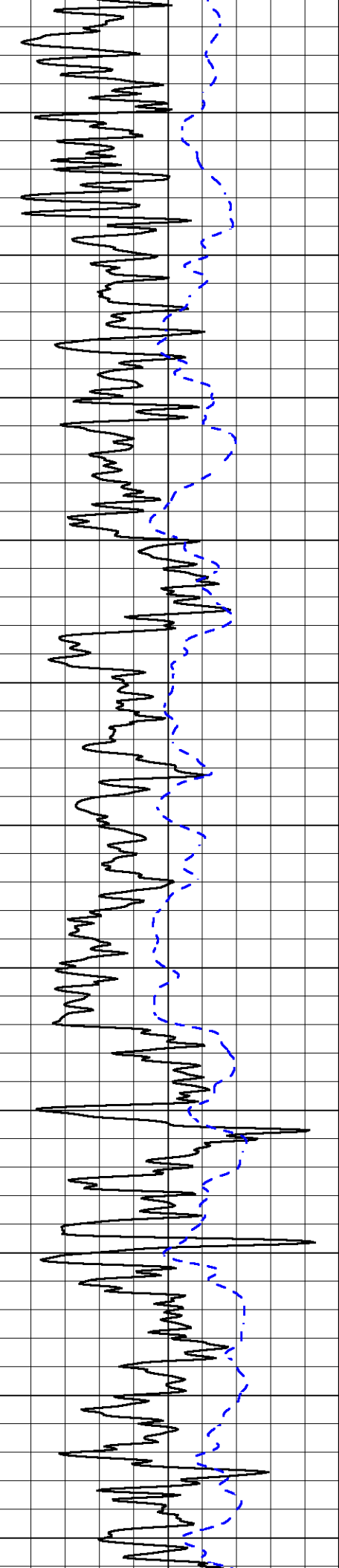
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Dataset Pathname	DIL/grstack
Presentation Format	dil2in
Dataset Creation	Wed Aug 03 15:57:10 2016
Charted by	Depth in Feet scaled 1:600

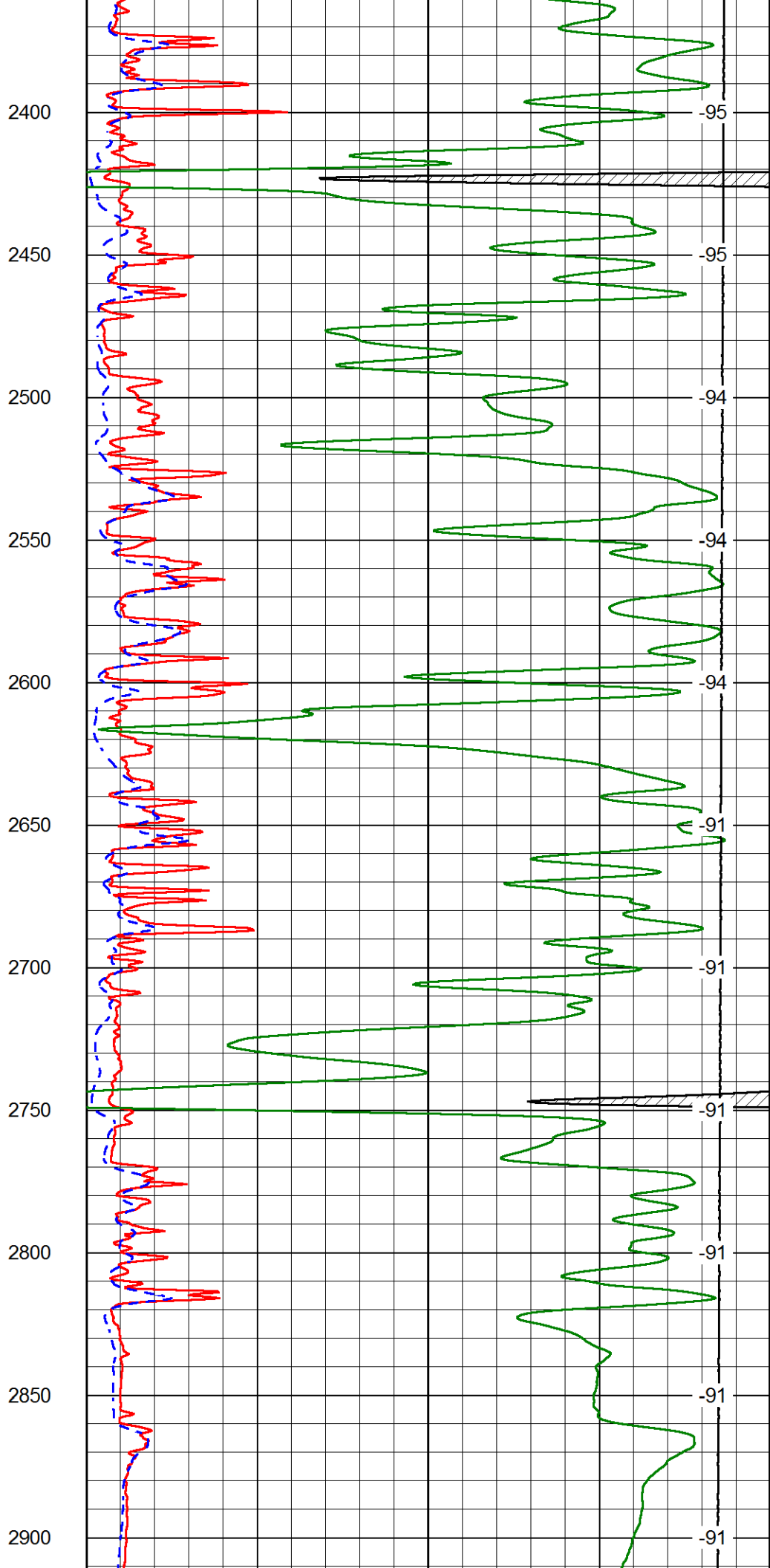
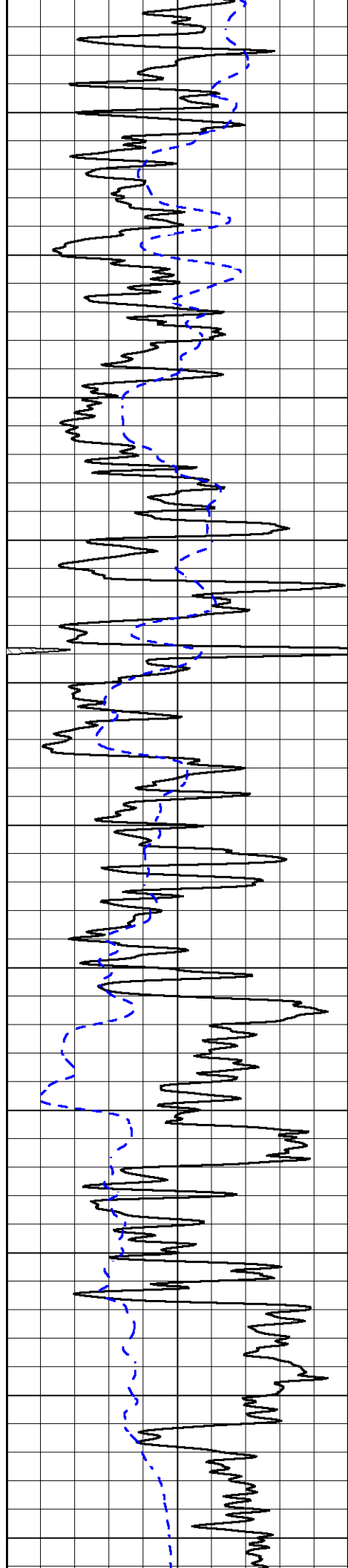
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-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		LSPD (ft/min)
			50	(Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

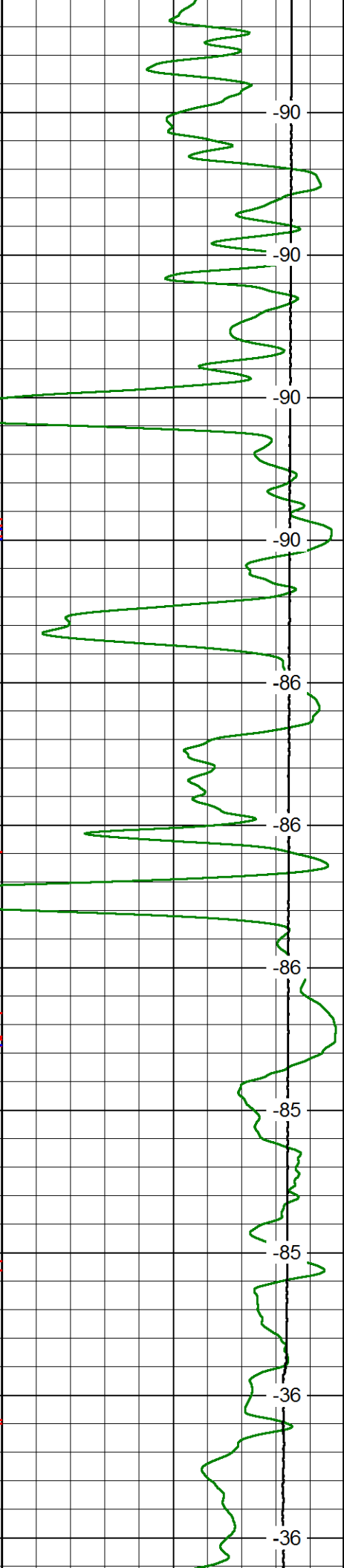
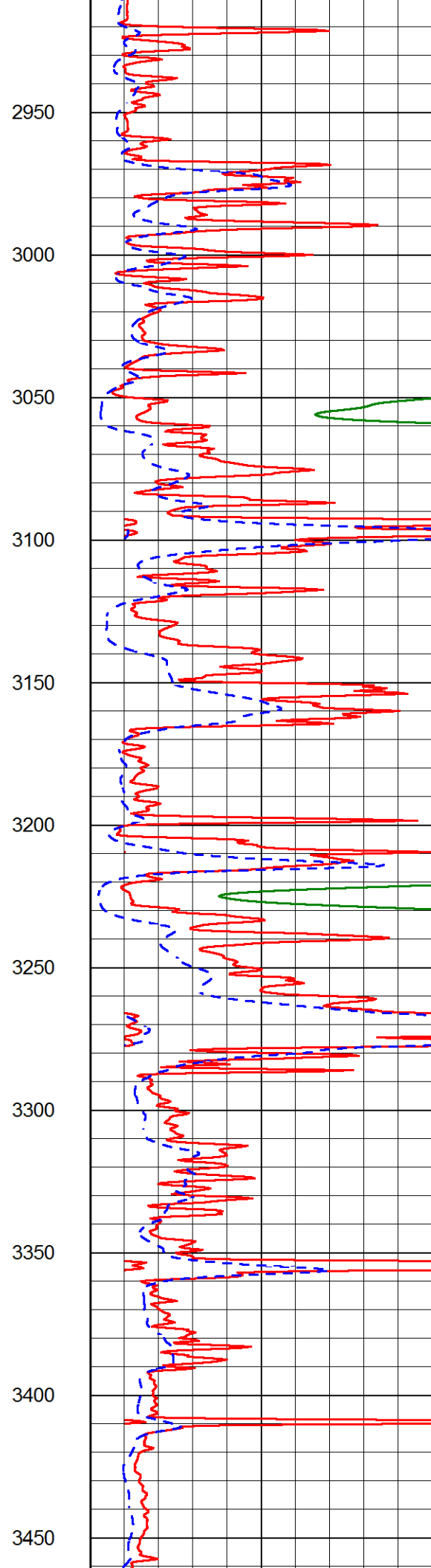
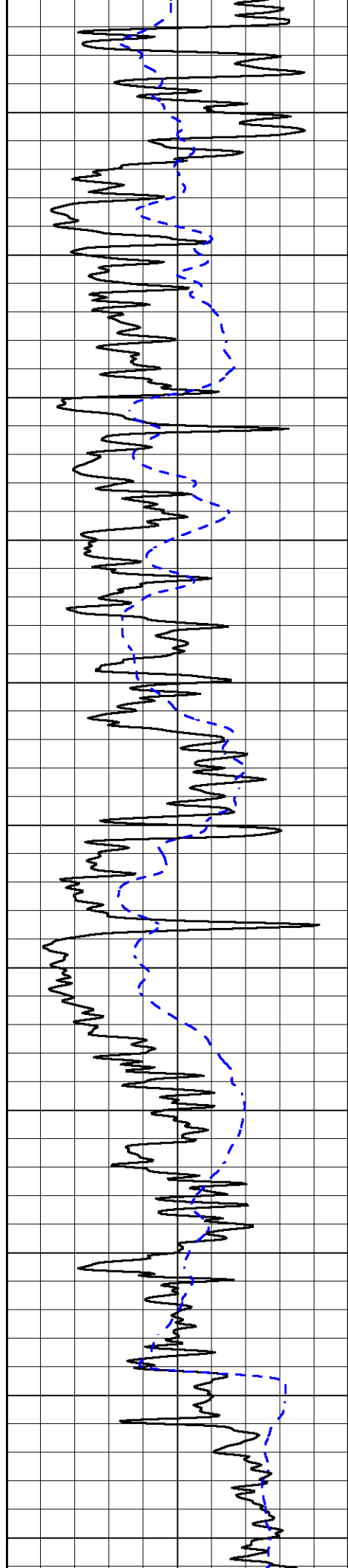


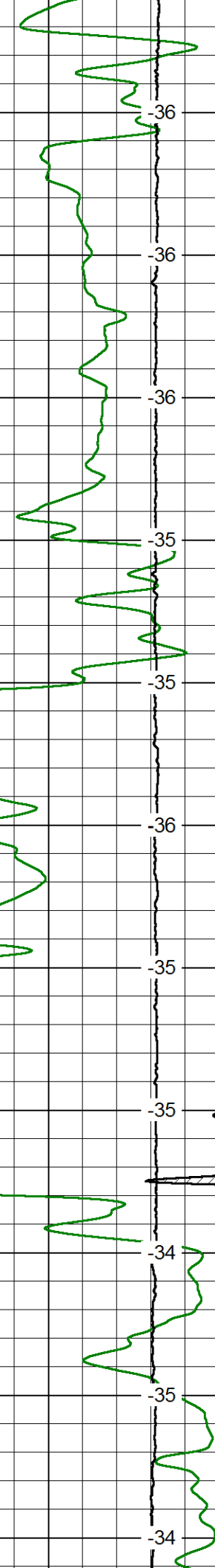
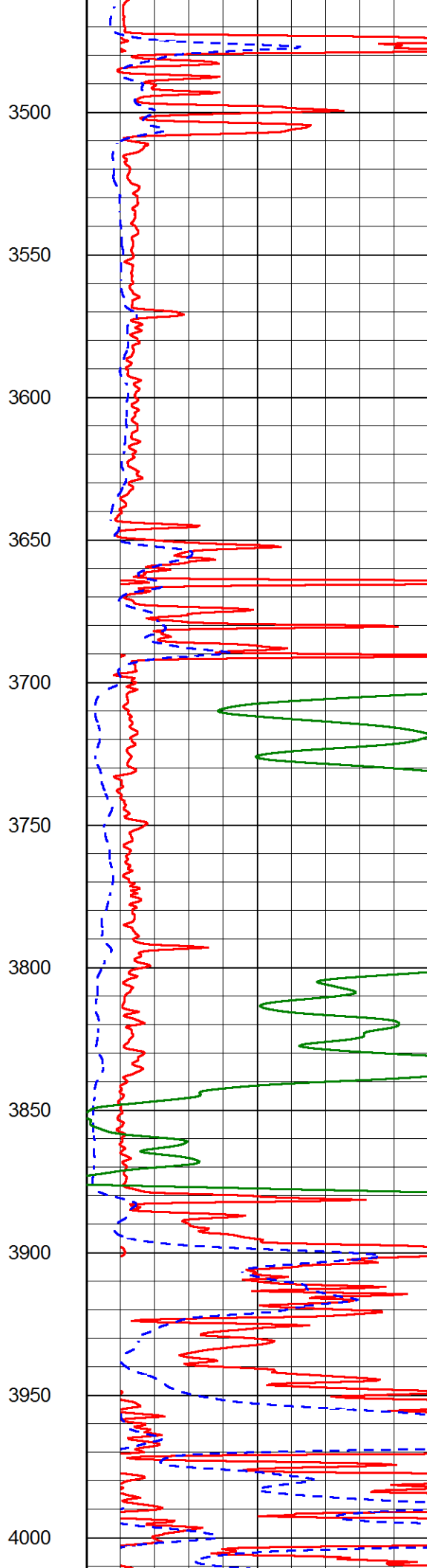
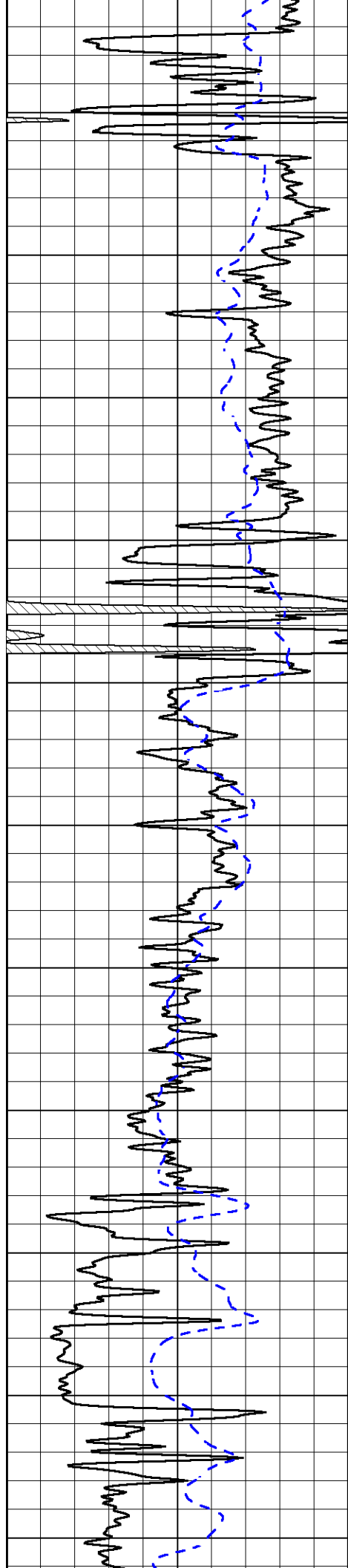


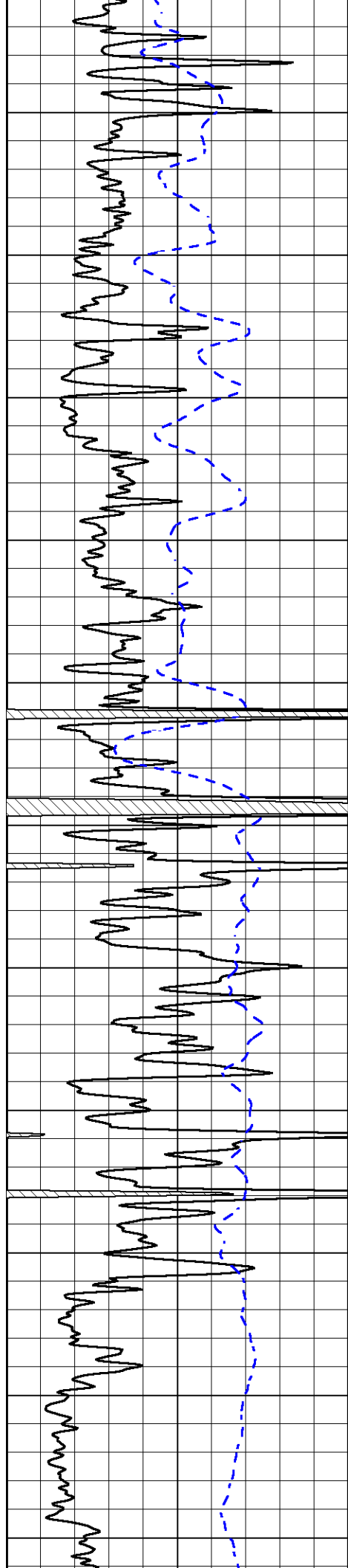












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4100

4150

4200

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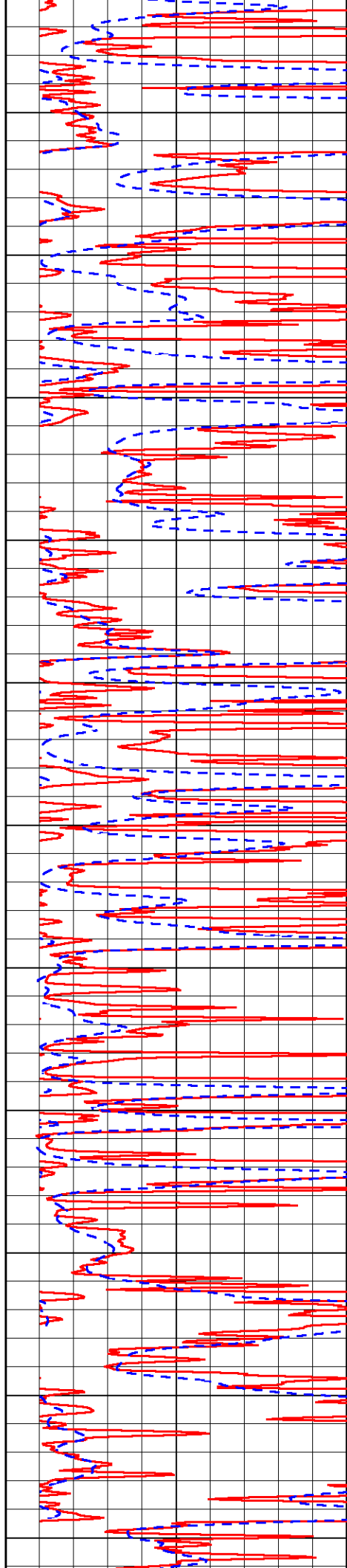
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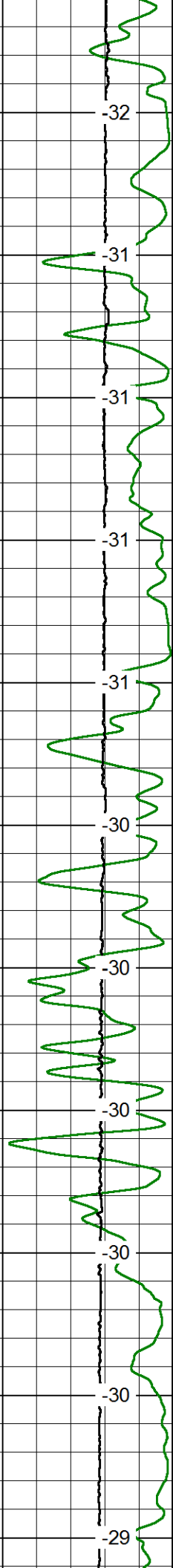
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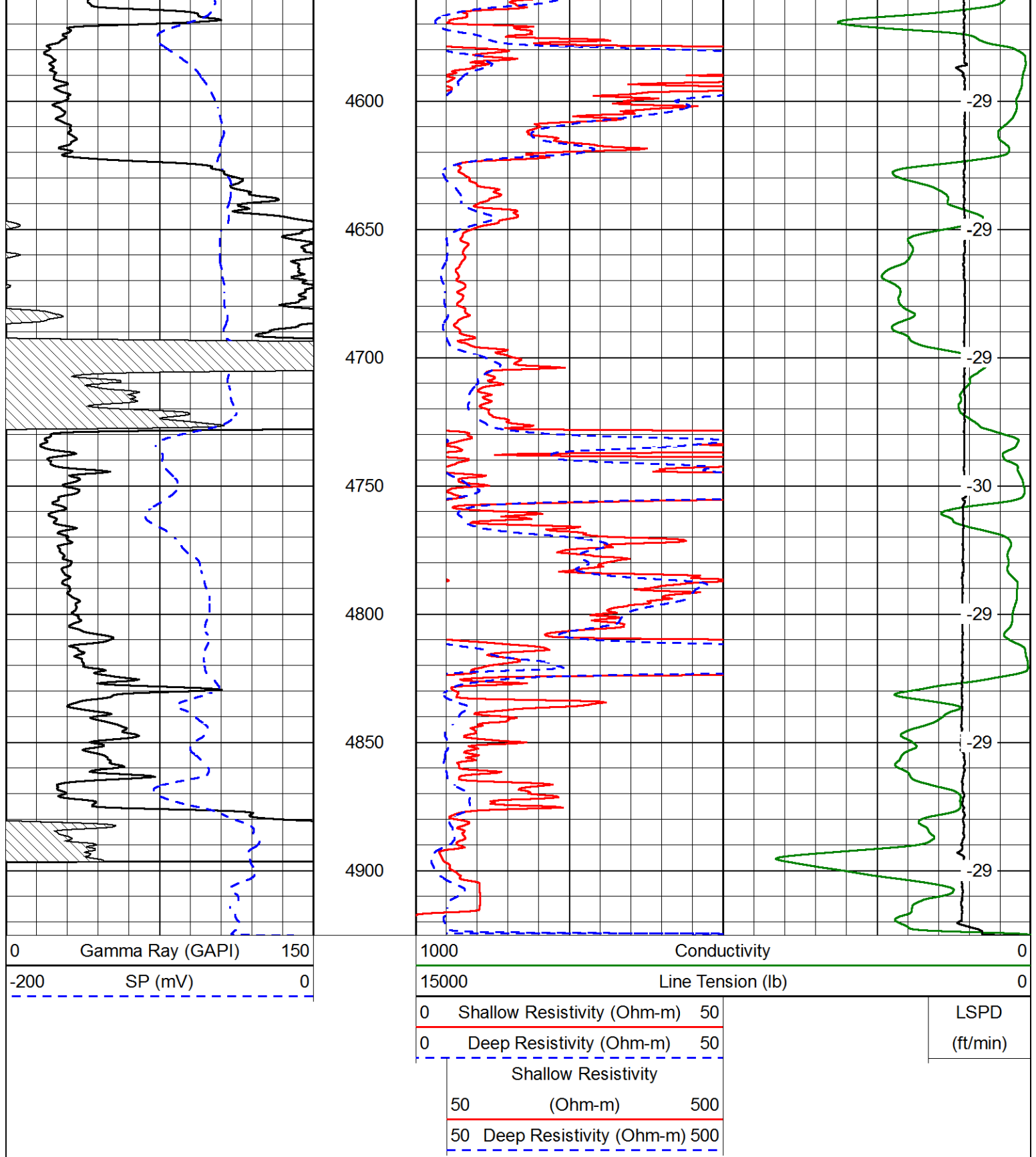
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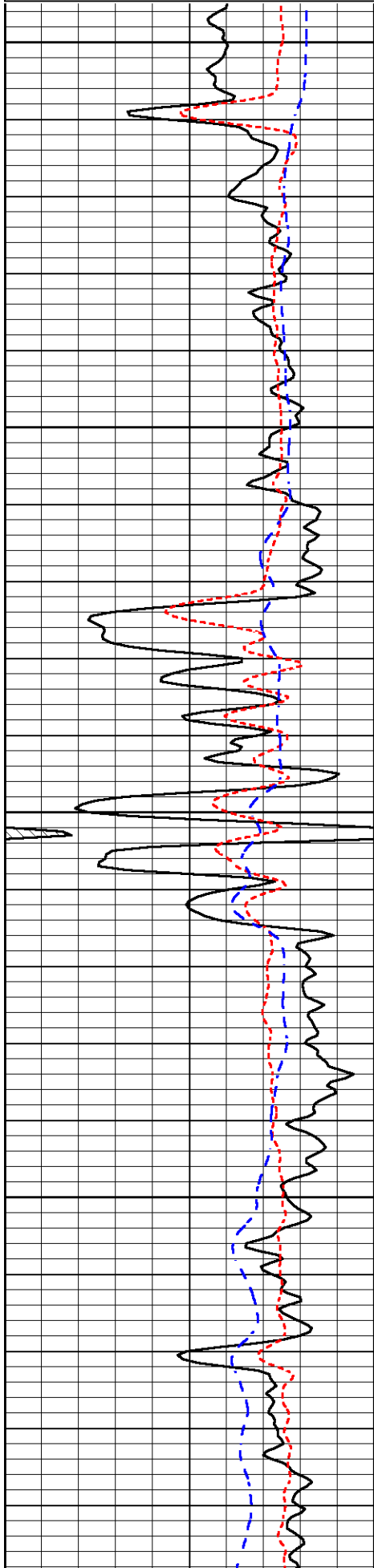
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-160	RxoRt	40	0.2
-200	SP (mV)	0	0.2
			Deep Resistivity (Ohm-m)
			Medium Resistivity (Ohm-m)
			Shallow Resistivity (Ohm-m)
			2000
			2000
			2000

10000

Line Tension (lb)

0

LSPD
(ft/min)

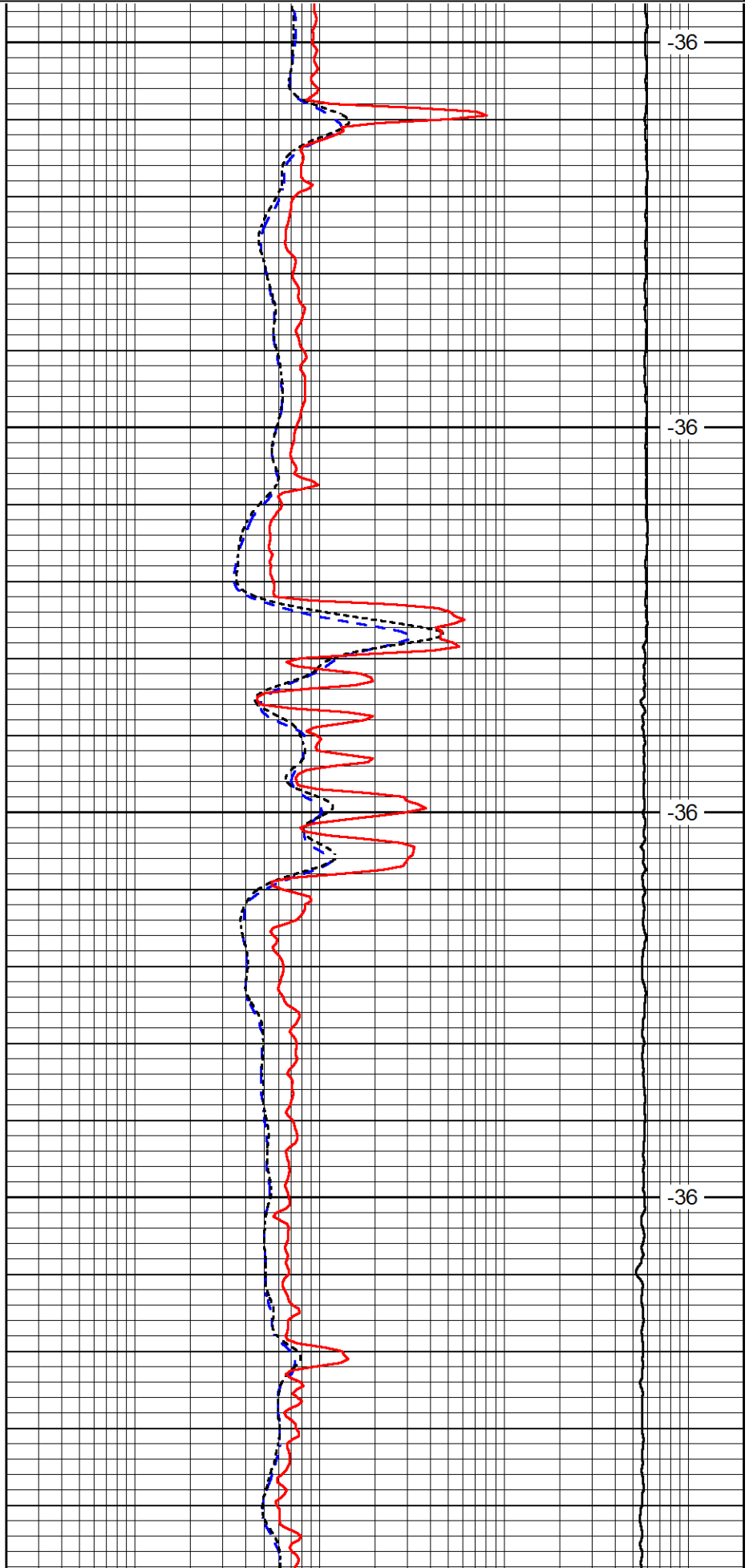


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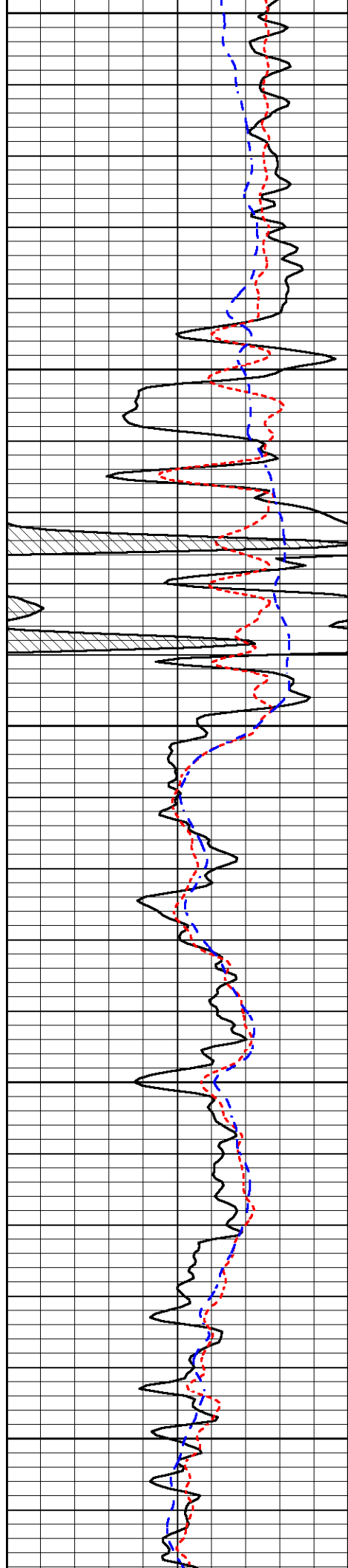


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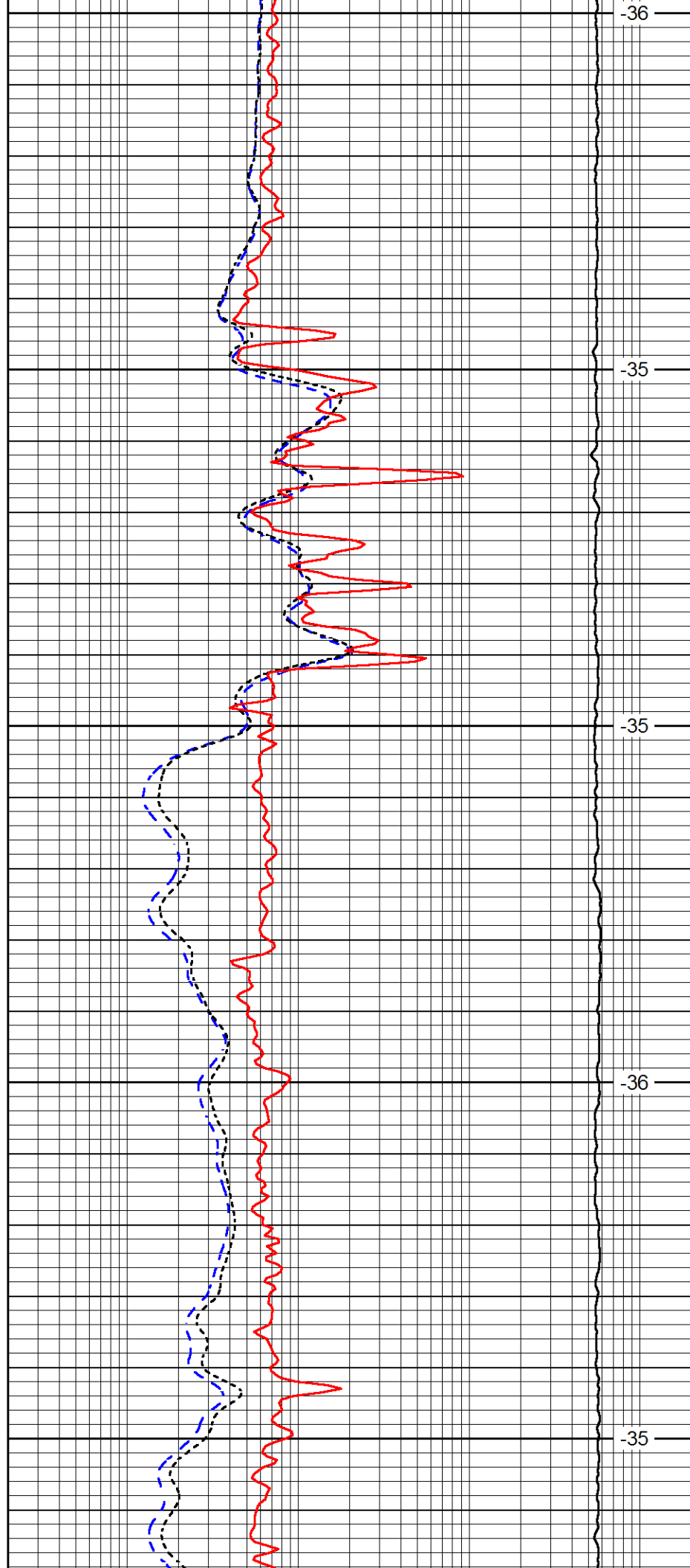
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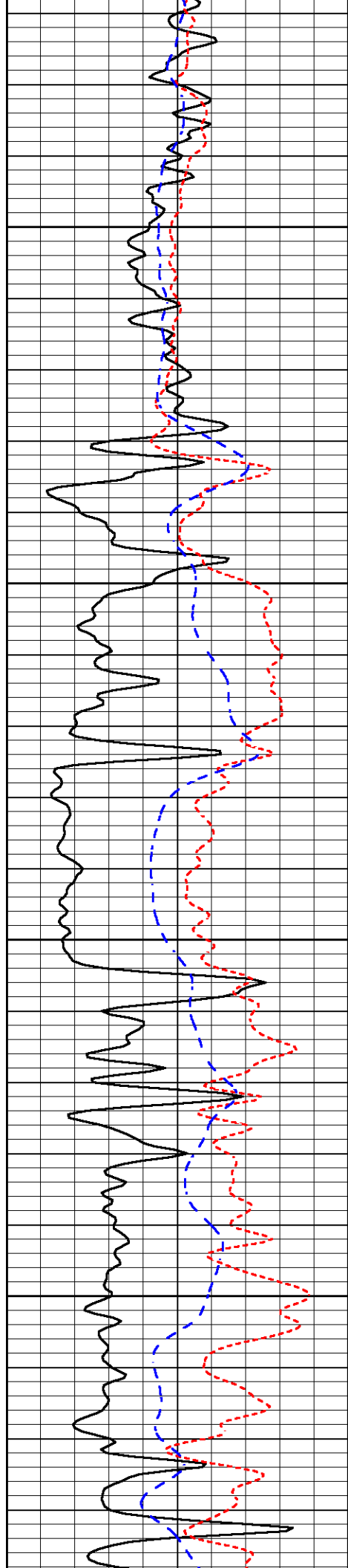
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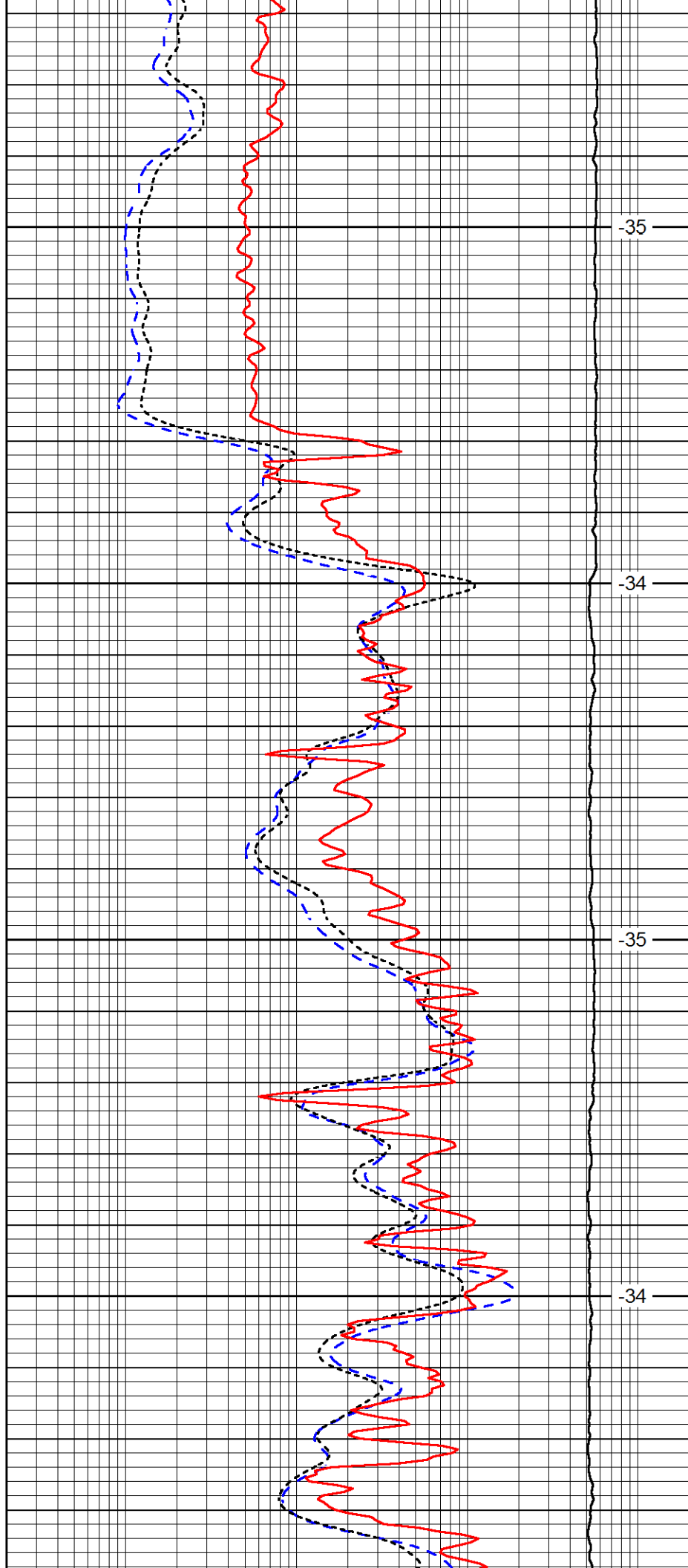


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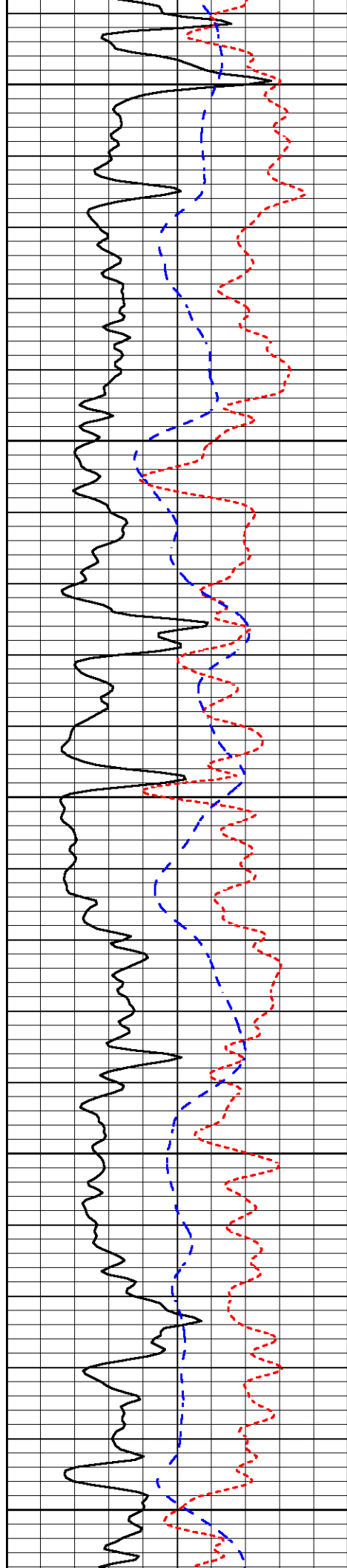


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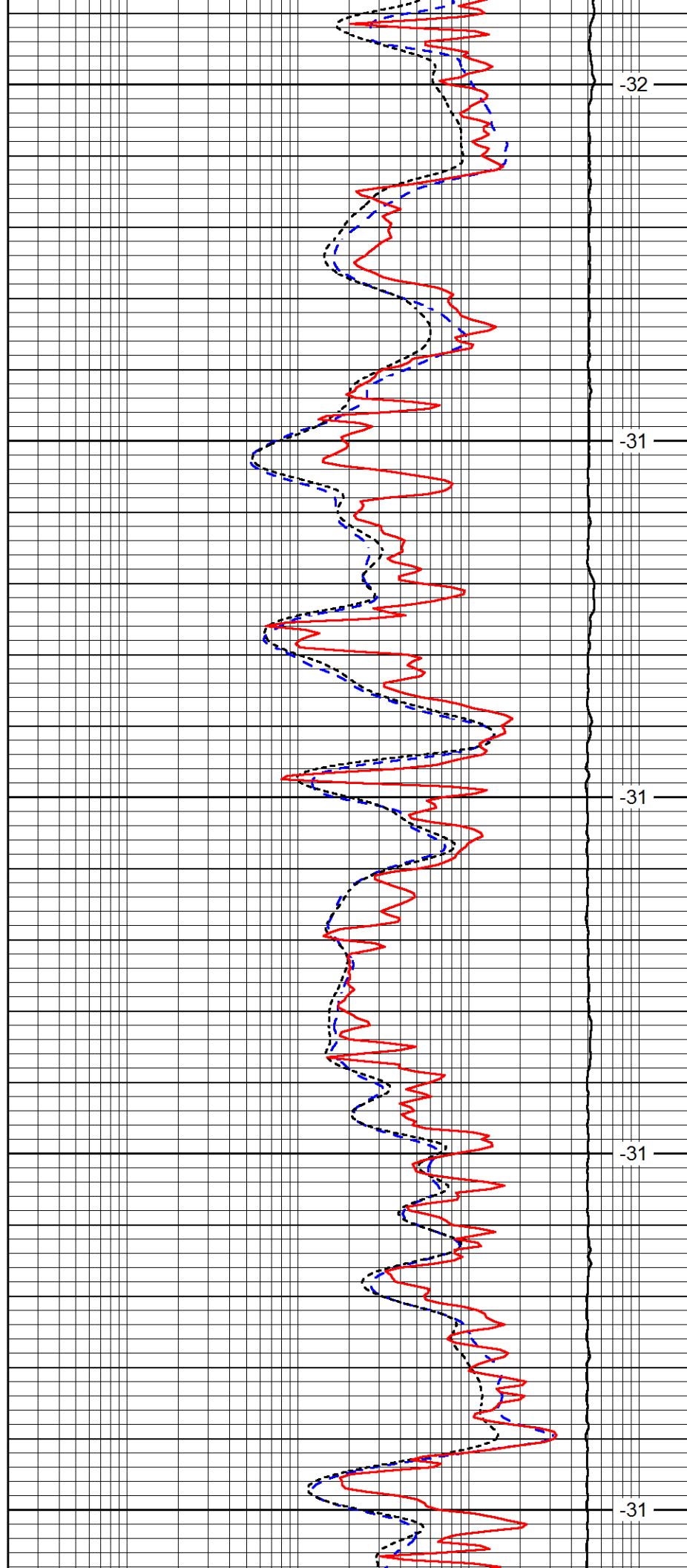
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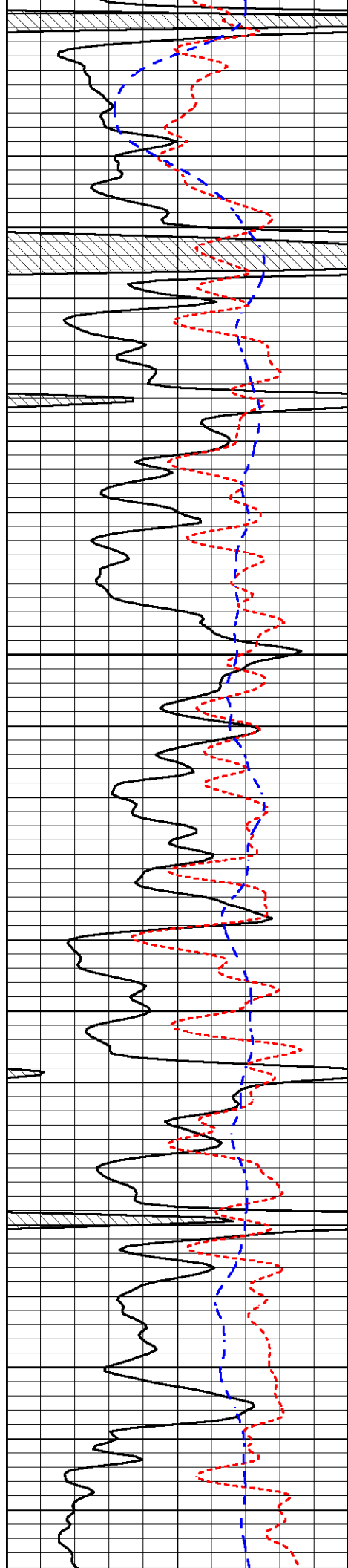
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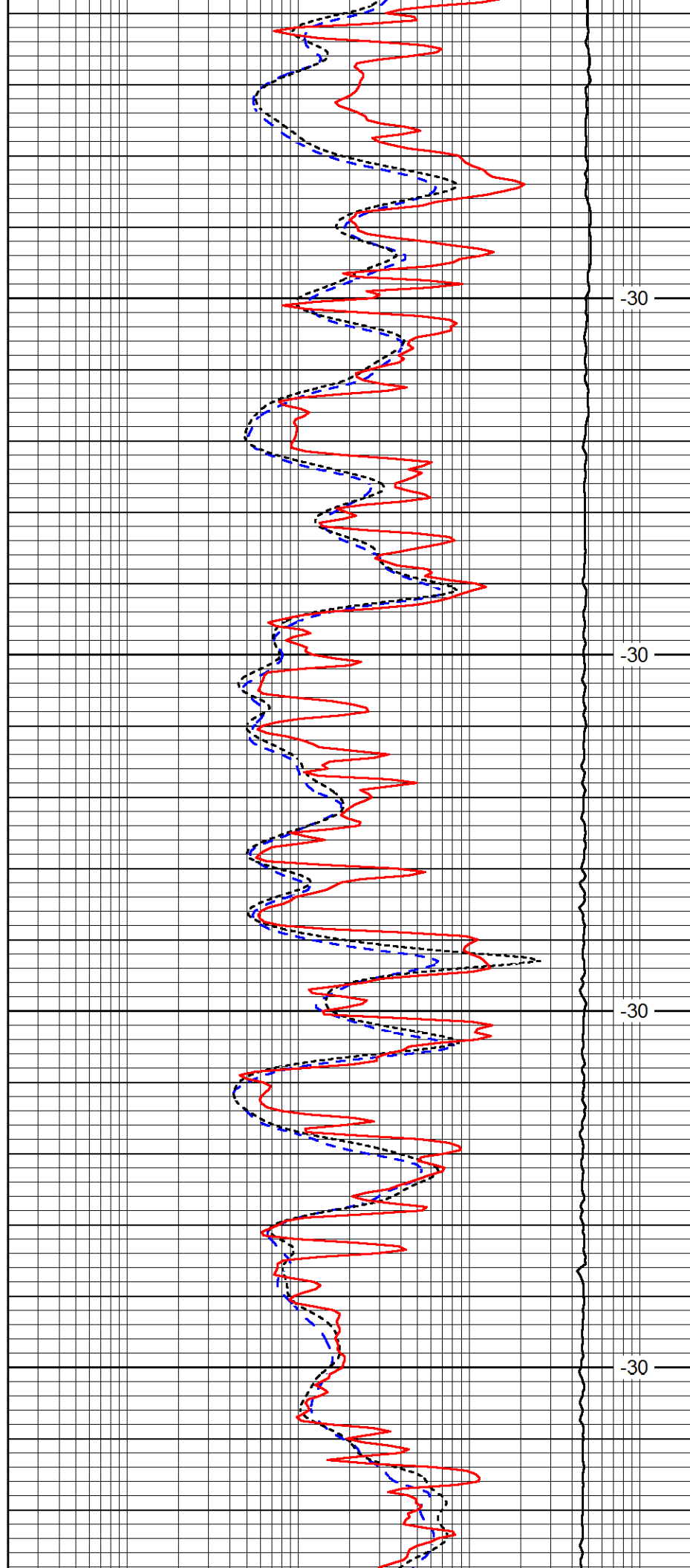


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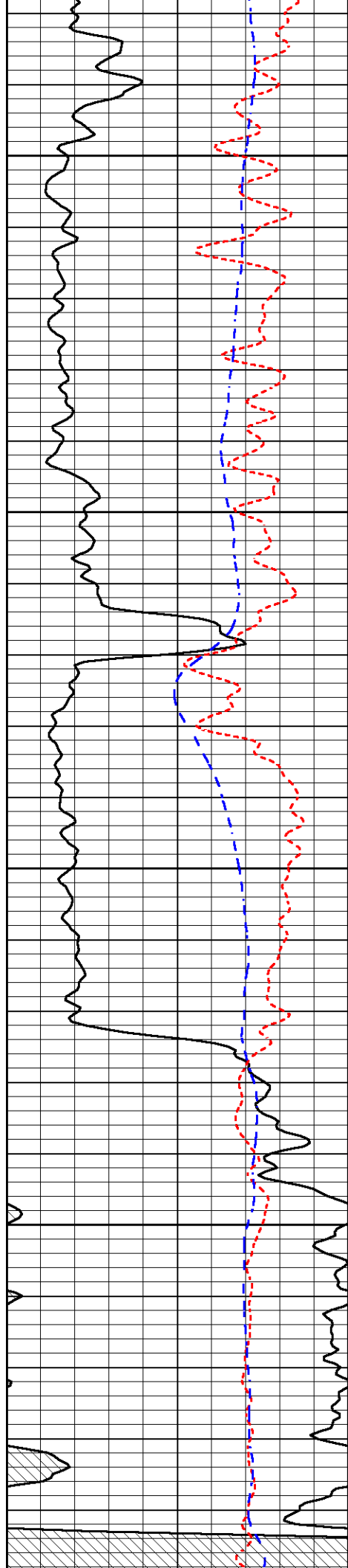


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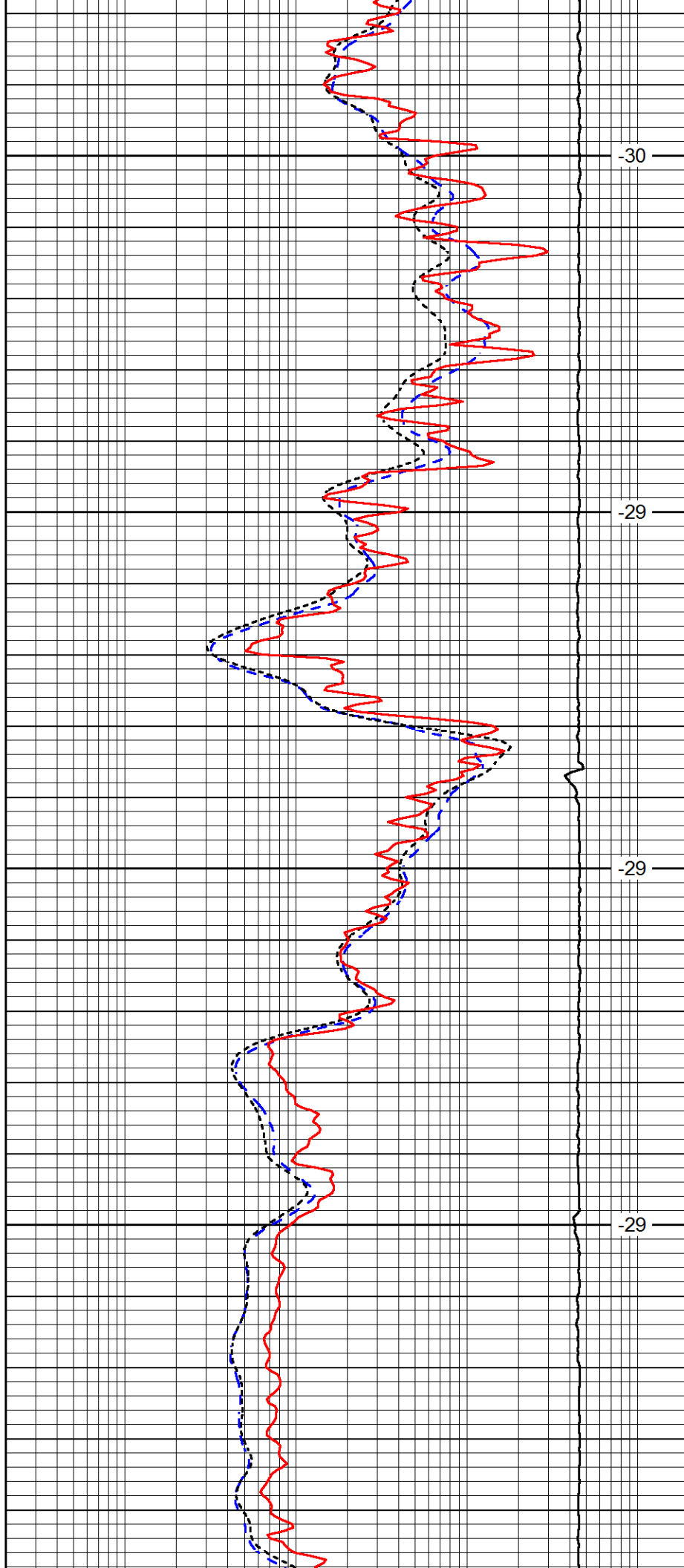


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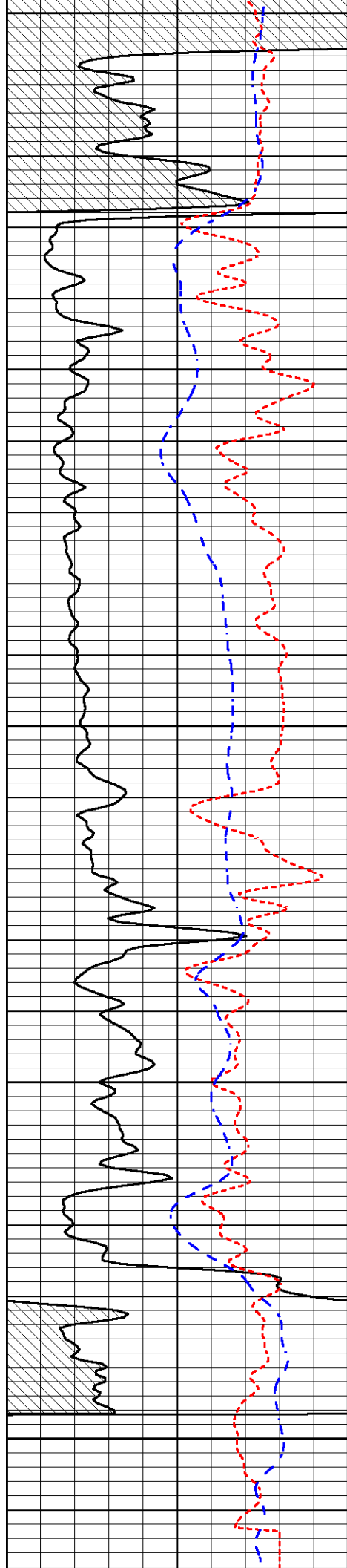


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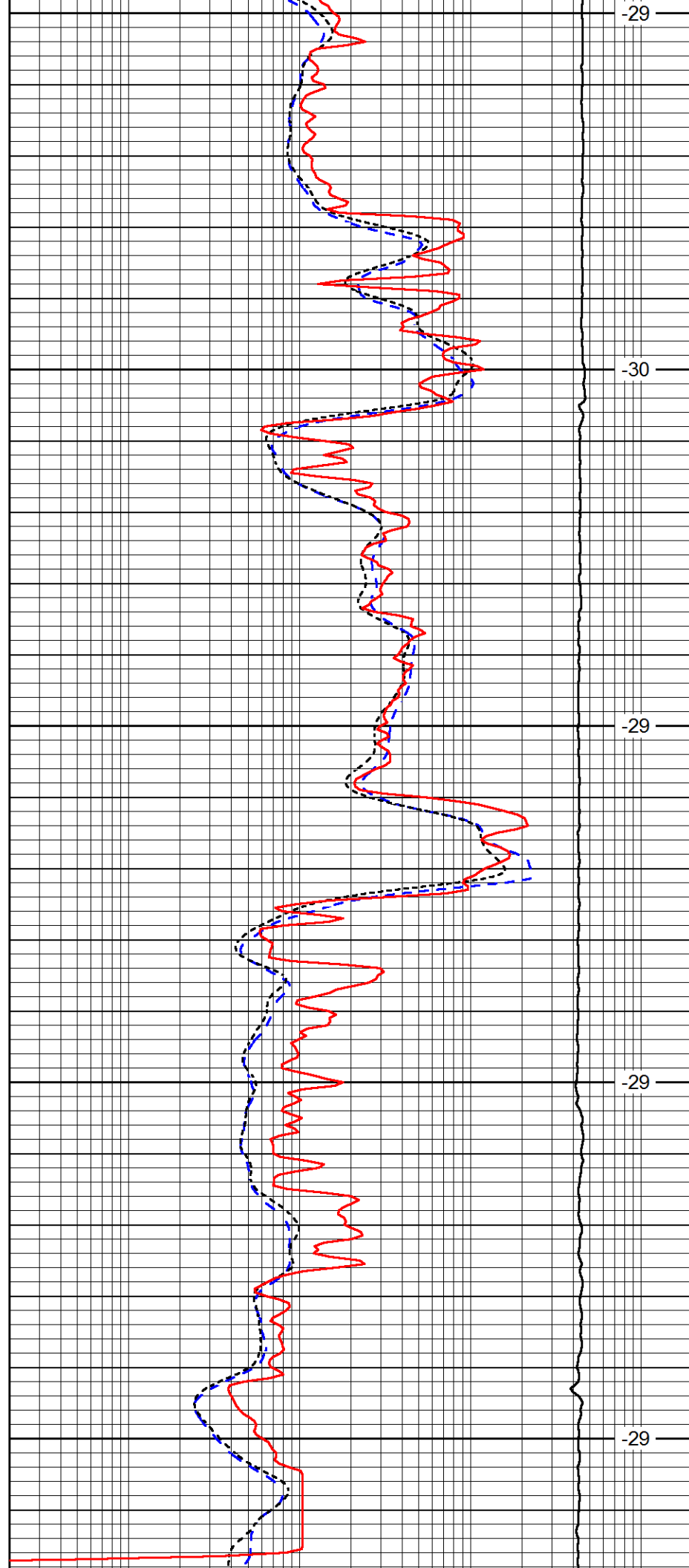
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