



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Charles N. Griffin
Well Cromer 4-1-4
Field Unnamed
County Barber State Kansas

Location: API #: 15-007-24388-00-00

Other Services

2503 FSL & 2310 FWL
SEC 4 TWP 30S RGE 15W

CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2006
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 2018
D.F.
G.L. 2006

Date 12/1/2021

Run Number One

Depth Driller 4824

Depth Logger 4820

Bottom Logged Interval 4819

Top Log Interval 250

Casing Driller 8.625 @ 279

Casing Logger 267

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8000

Density / Viscosity 9.5 46

pH / Fluid Loss 9.0 8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp .4 @ 67

Rmt @ Meas. Temp .3 @ 67

Rmc @ Meas. Temp .54 @ 67

Source of Rmt / Rmc CHARTS

Rm @ BHT .22 @ 124

Operating Rig Time 2 Hours

Max Rec. Temp. F 124

Equipment Number P-108

Location HAYS

Recorded By J. Henrickson

Witnessed By Eli Felts

<<< Fold Here >>>

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

Haviland Kansas

East to 140th, 10 South to 110th, 1 East, South Into

Log Measured From: Kelly Bushing

12 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Eli Felts
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 685	degF 50	Off	ft 4820

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (tk10-MW)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (915-956)	8.50	4.00	250.00
						
LSD	28.18		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
DCAL	28.17					
SSD	27.68					
						
MCAL	19.58					
MI	19.58					
MN	19.58					
						
RLL3F	15.50					
RLL3	15.50					
						
						
						
						
CILD	8.33		DIL-PSI HIGH TEMP (959-1032)	18.25	3.50	220.00

CILM

4.50

SP

0.20

Dataset: griffin_cromer_4_1_4.db: field/well/stackml/pass4.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File griffin_cromer_4_1_4.db
Dataset Pathname stackml/pass5.1
Presentation Format _dil2in
Dataset Creation Wed Dec 01 07:16:33 2021
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

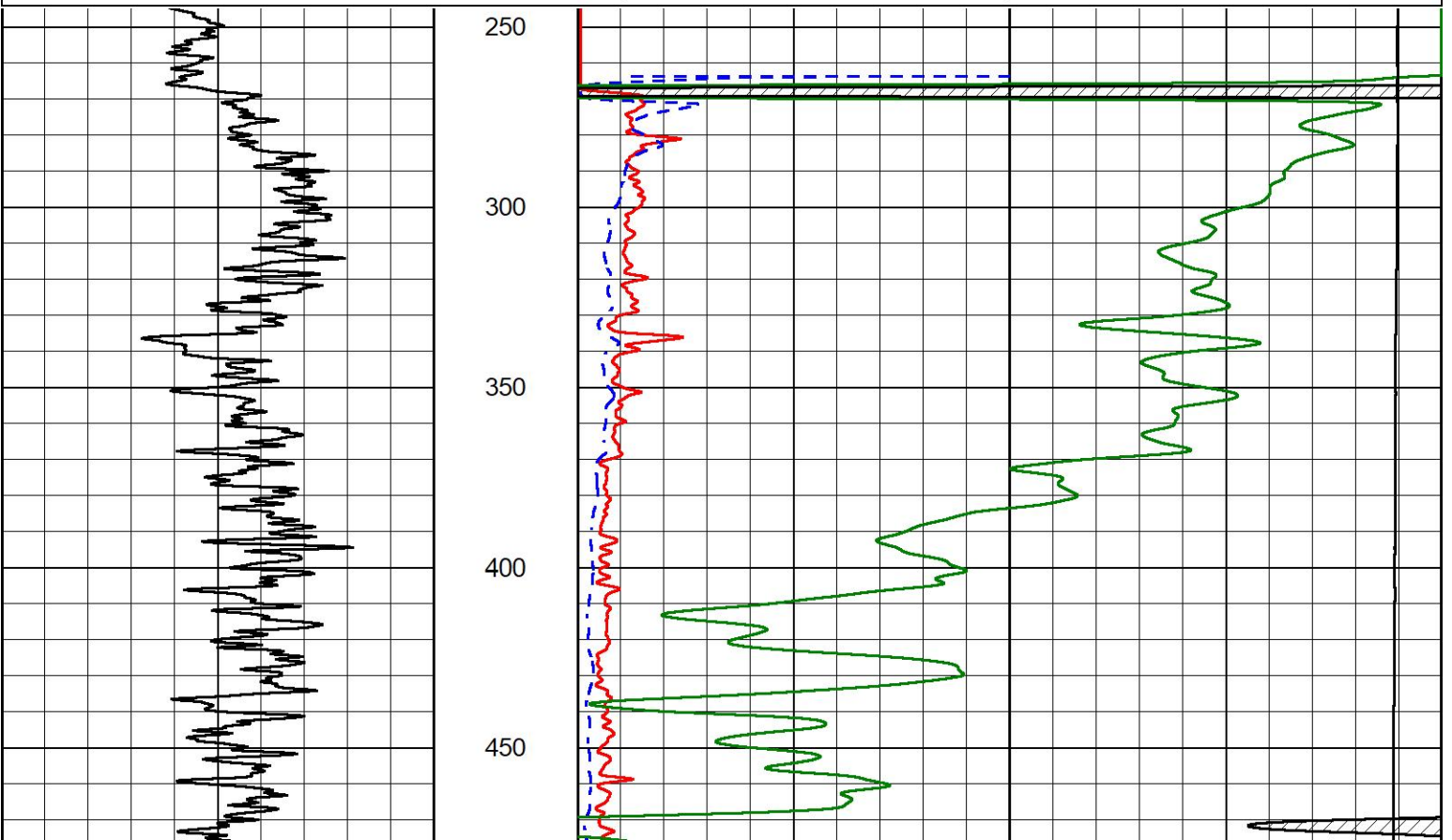
0 Shallow Resistivity (Ohm-m) 50

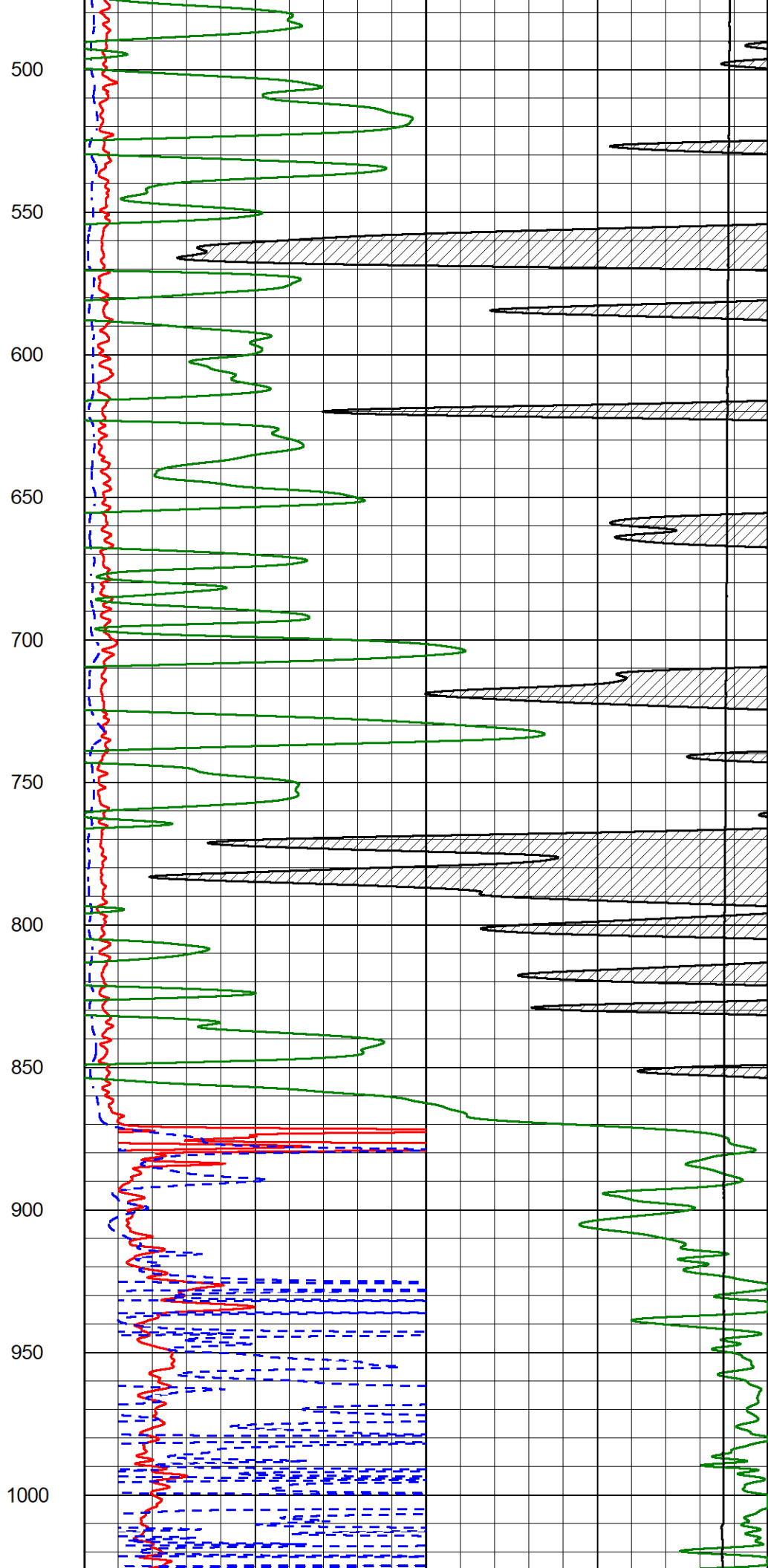
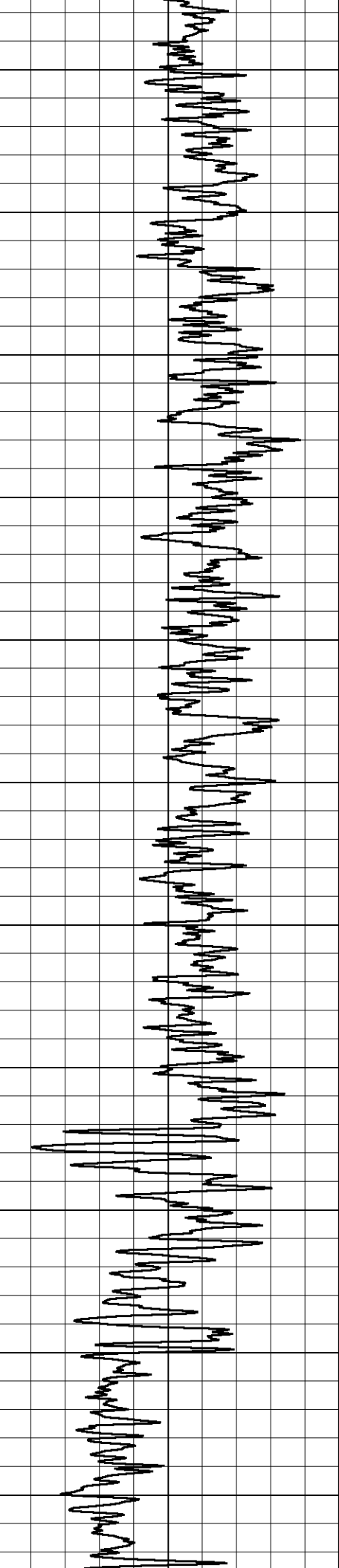
0 Deep Resistivity (Ohm-m) 50

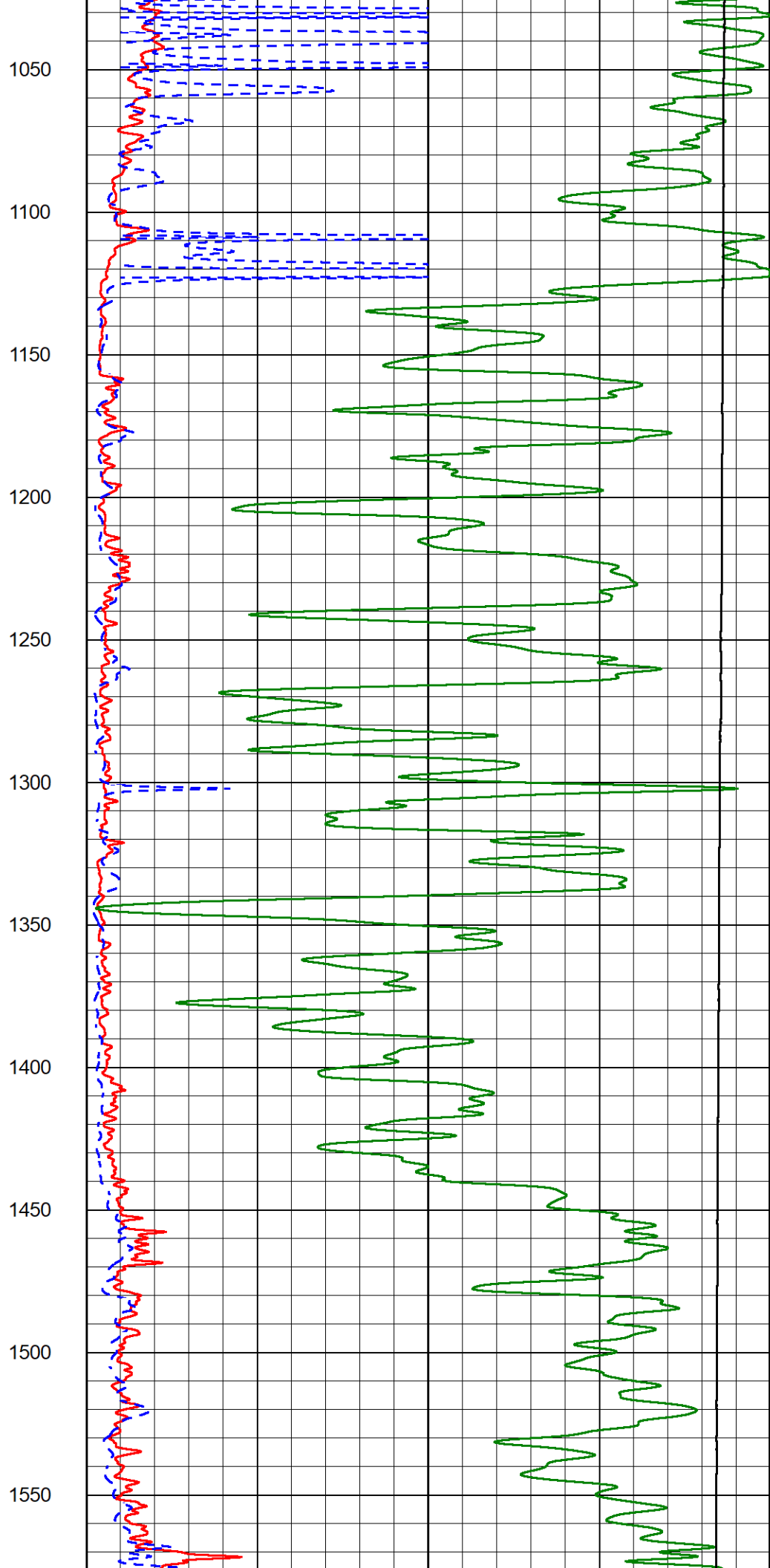
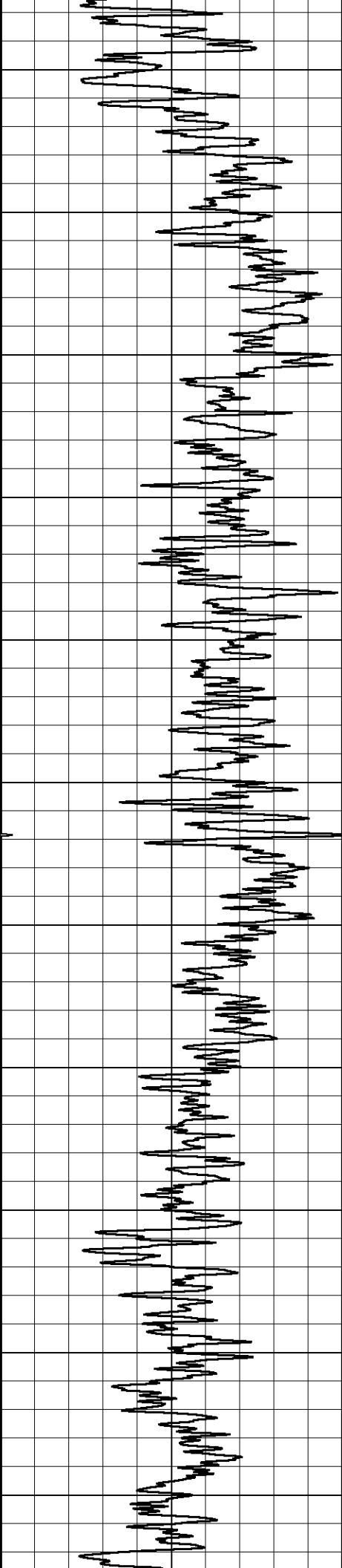
Shallow Resistivity

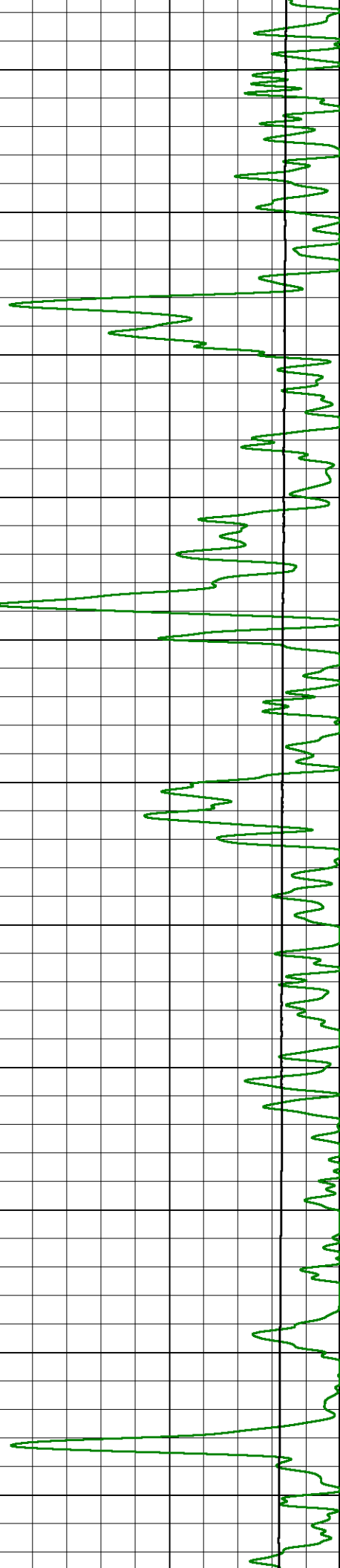
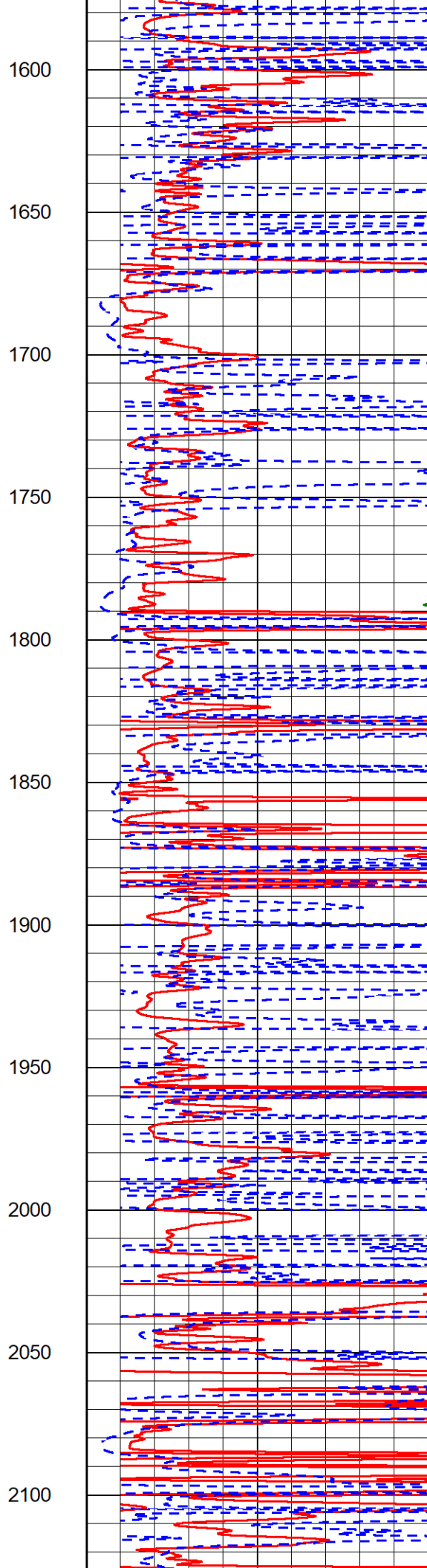
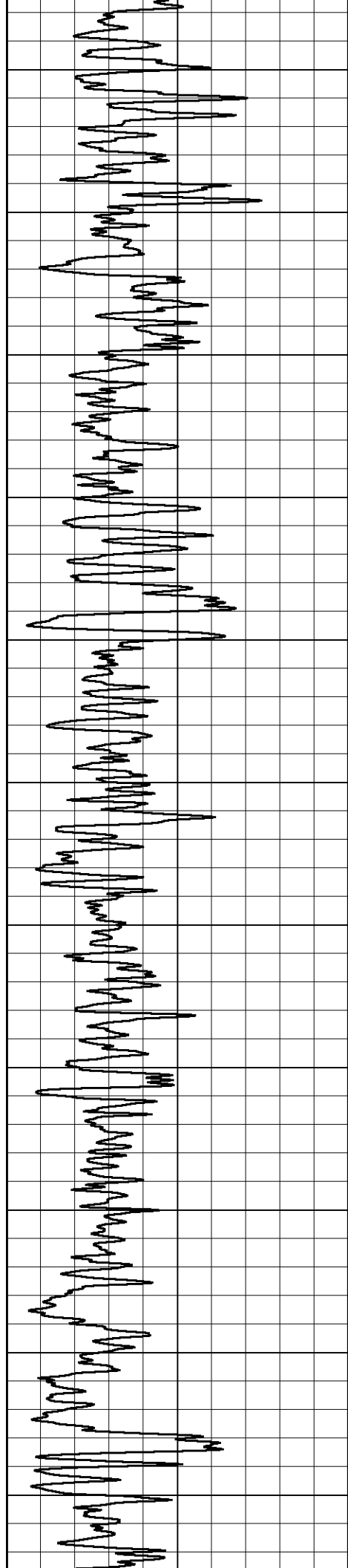
50 (Ohm-m) 200

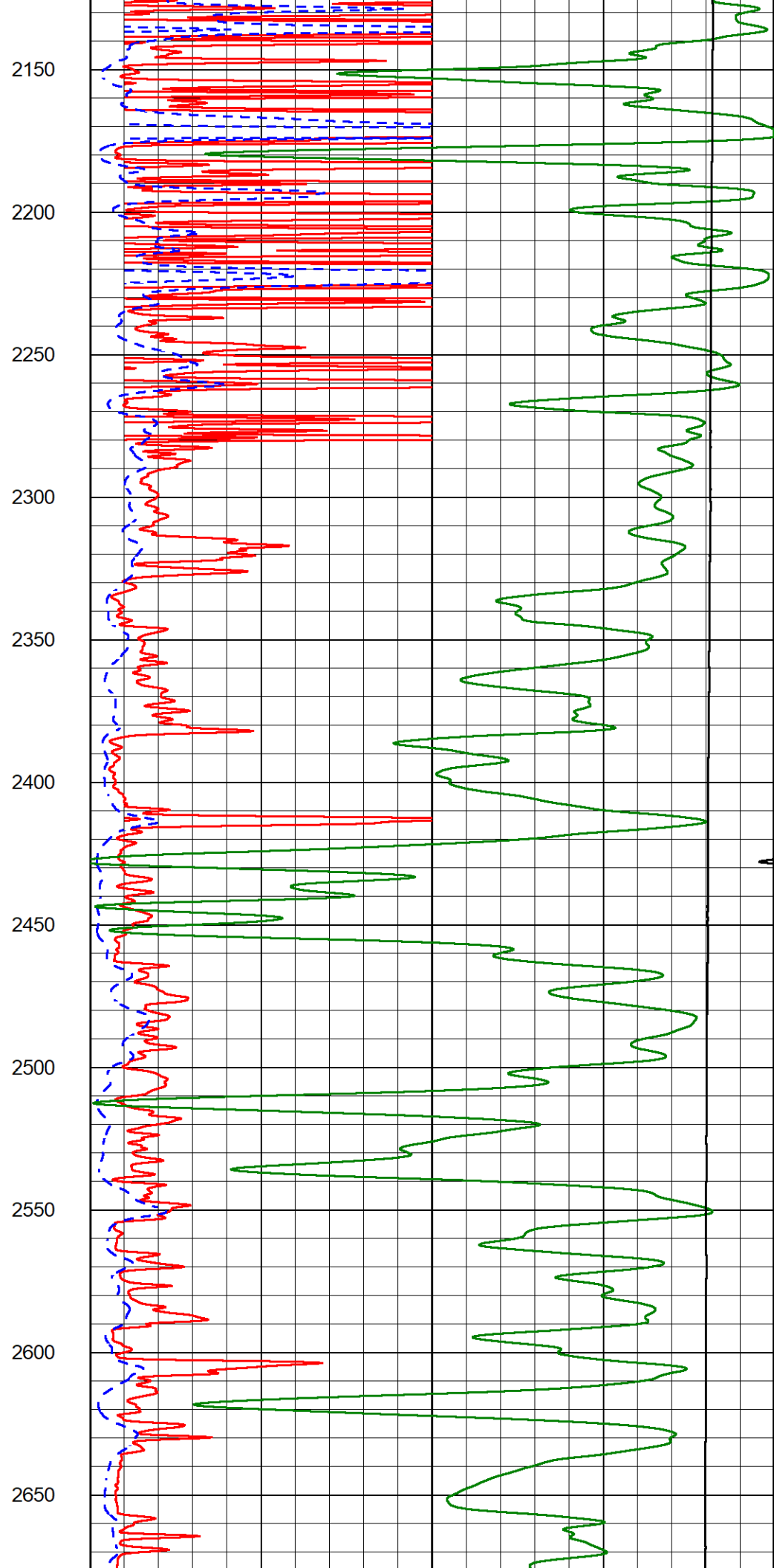
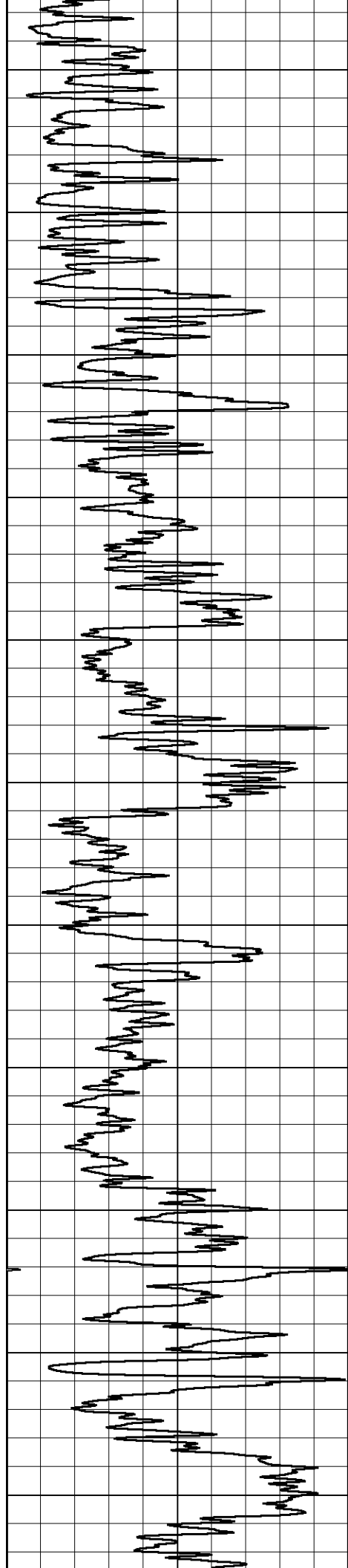
50 Deep Resistivity (Ohm-m) 200

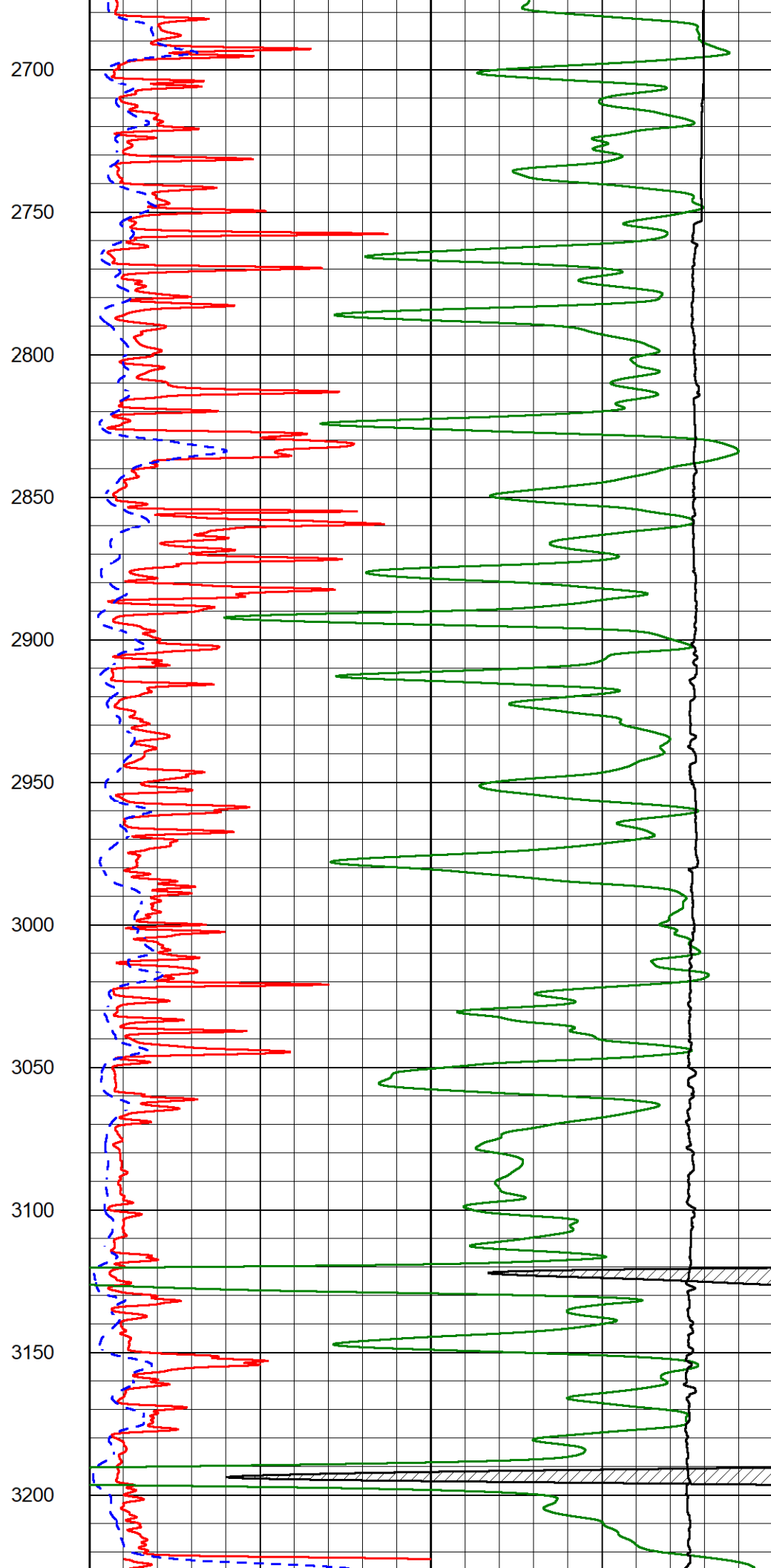
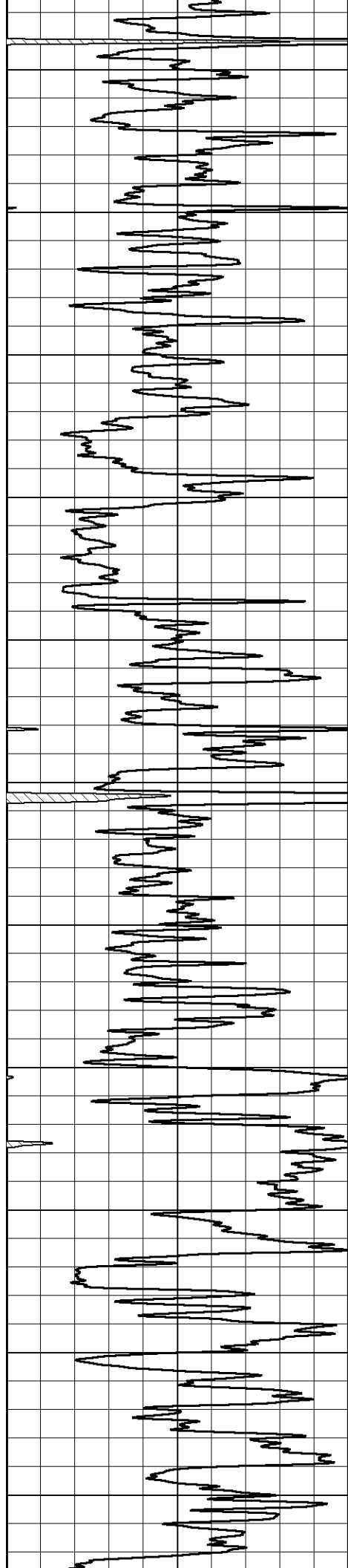


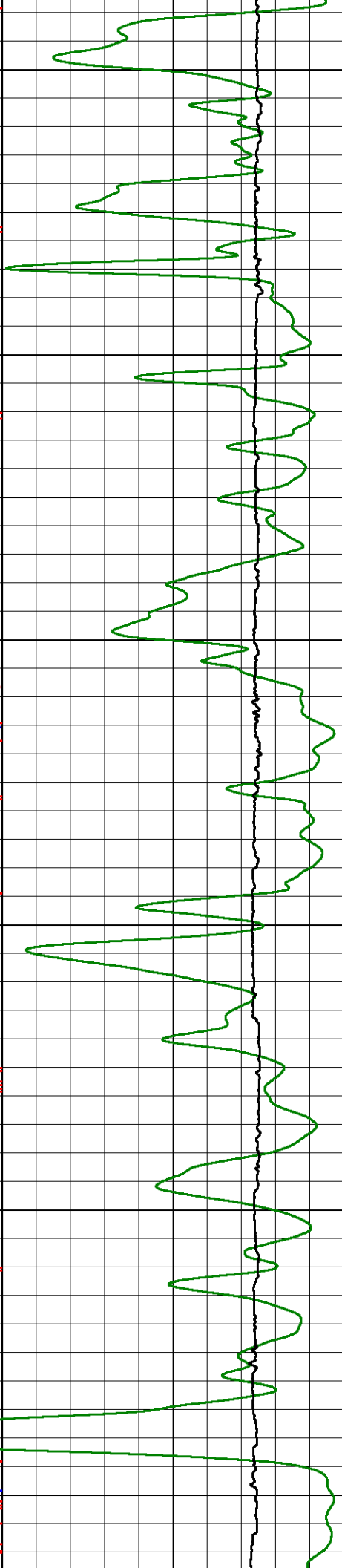
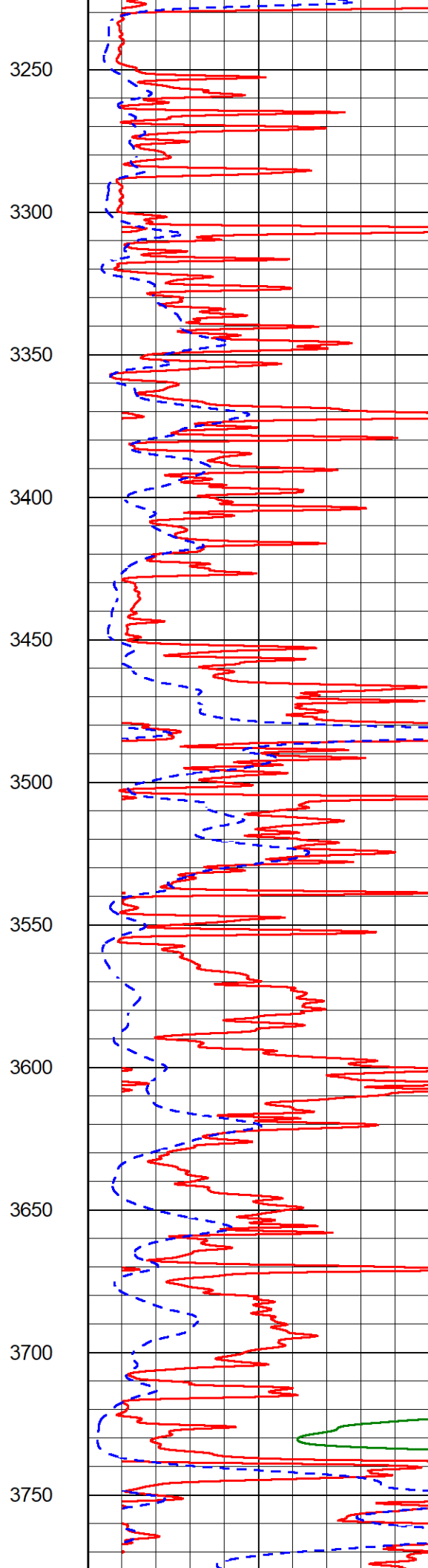
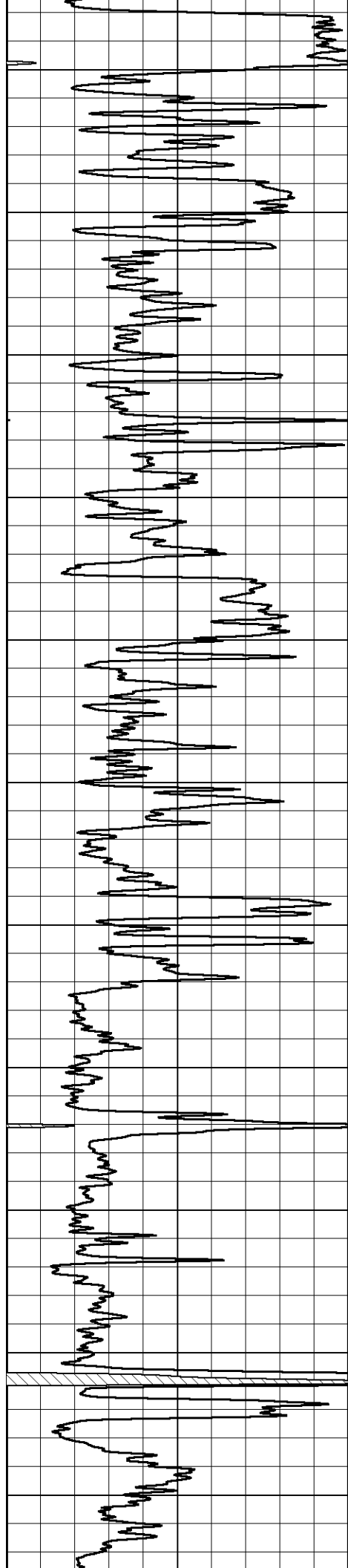


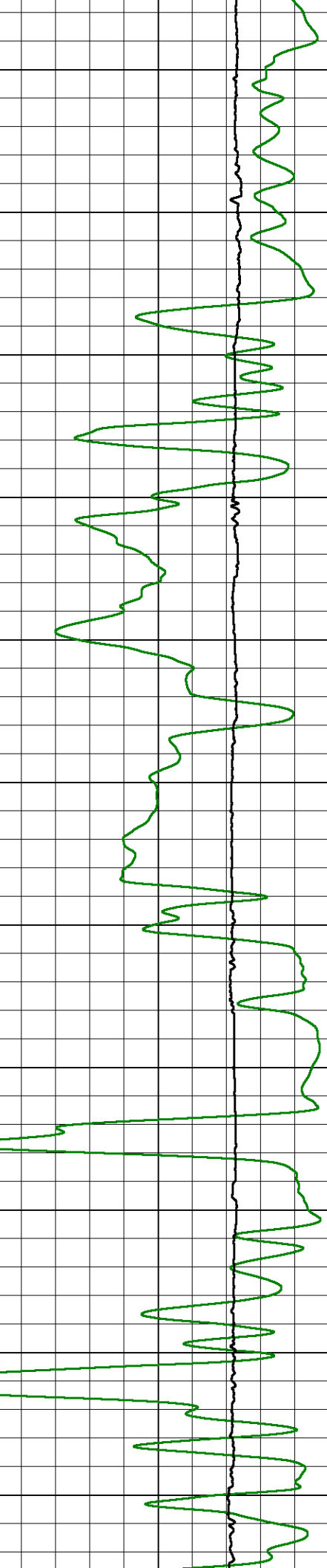
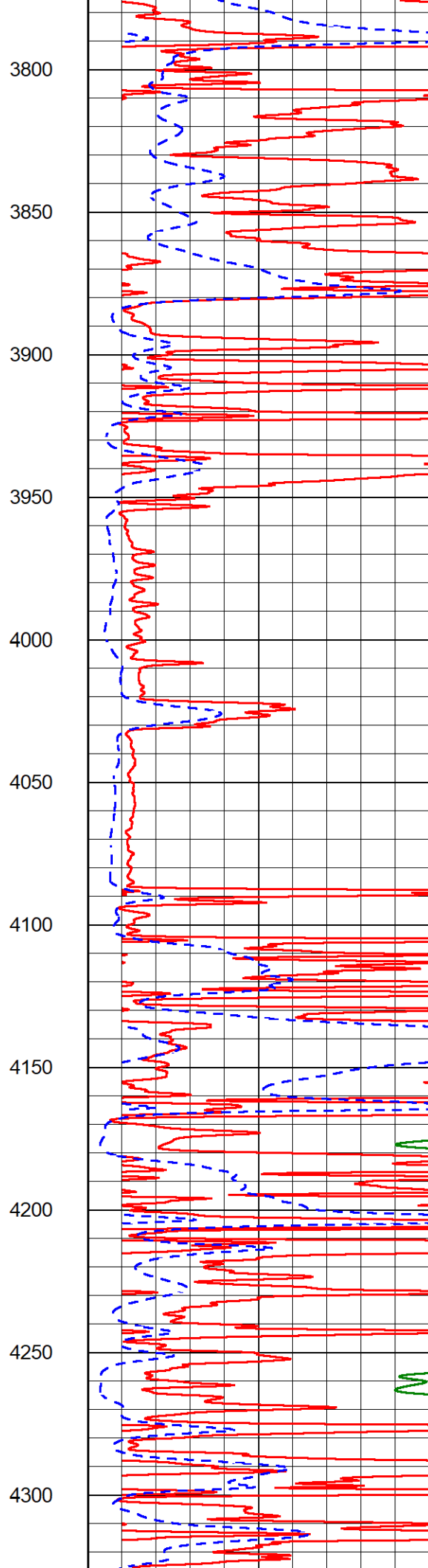
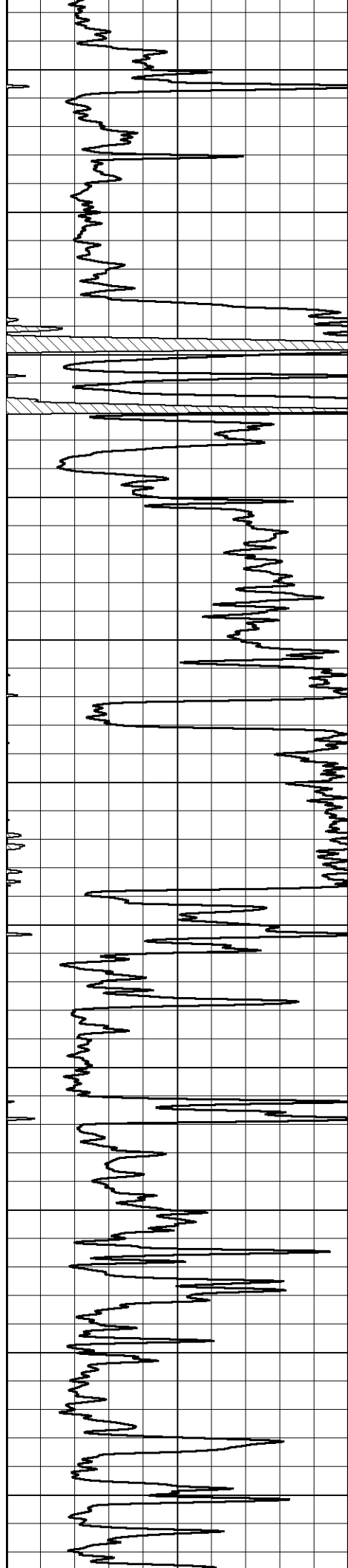


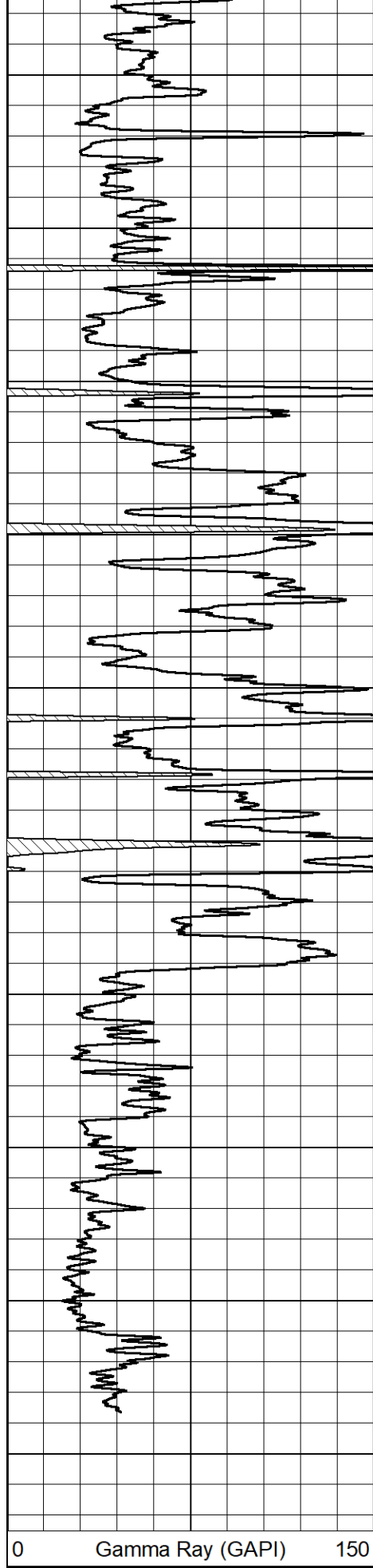












0 Gamma Ray (GAPI) 150

4350

4400

4450

4500

4550

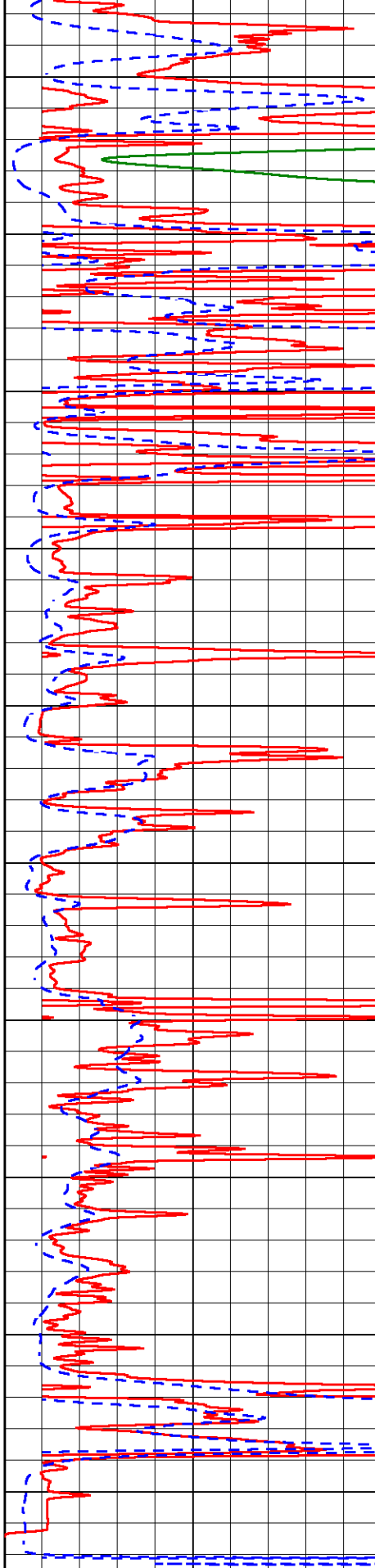
4600

4650

4700

4750

4800



1000 Conductivity (mmho/m)

0

15000

Line Tension (lb)

0

0 Shallow Resistivity (Ohm-m) 50

0 Deep Resistivity (Ohm-m) 50

Shallow Resistivity

50 (Ohm-m) 200

50 Deep Resistivity (Ohm-m) 200



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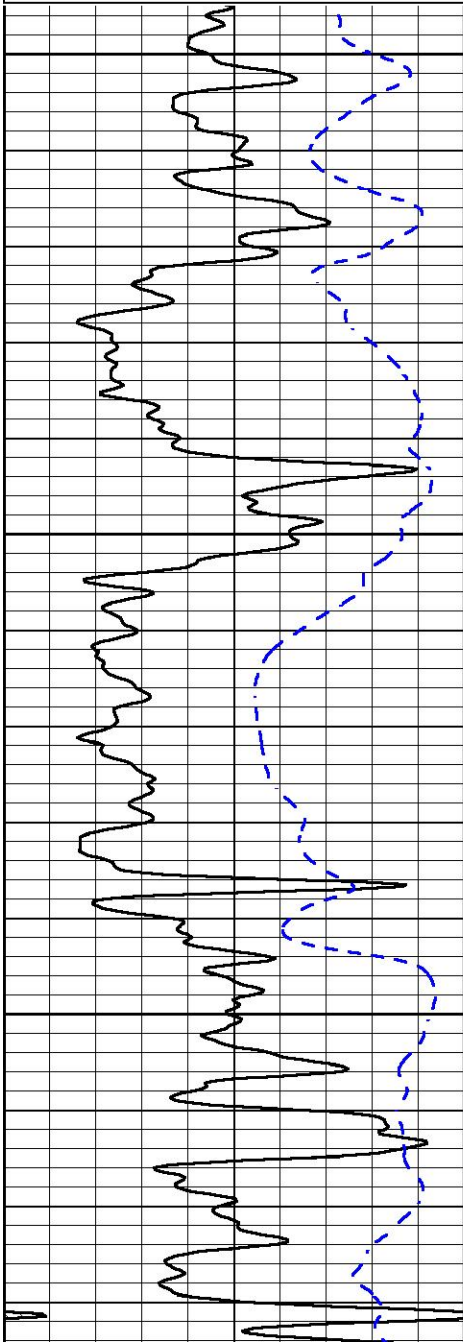
DETAIL SECTION

MAIN PASS

Database File griffin_cromer_4_1_4.db
Dataset Pathname stackml/pass4.1
Presentation Format _dil
Dataset Creation Wed Dec 01 06:46:15 2021
Charted by Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150
-200 SP (mV) 0

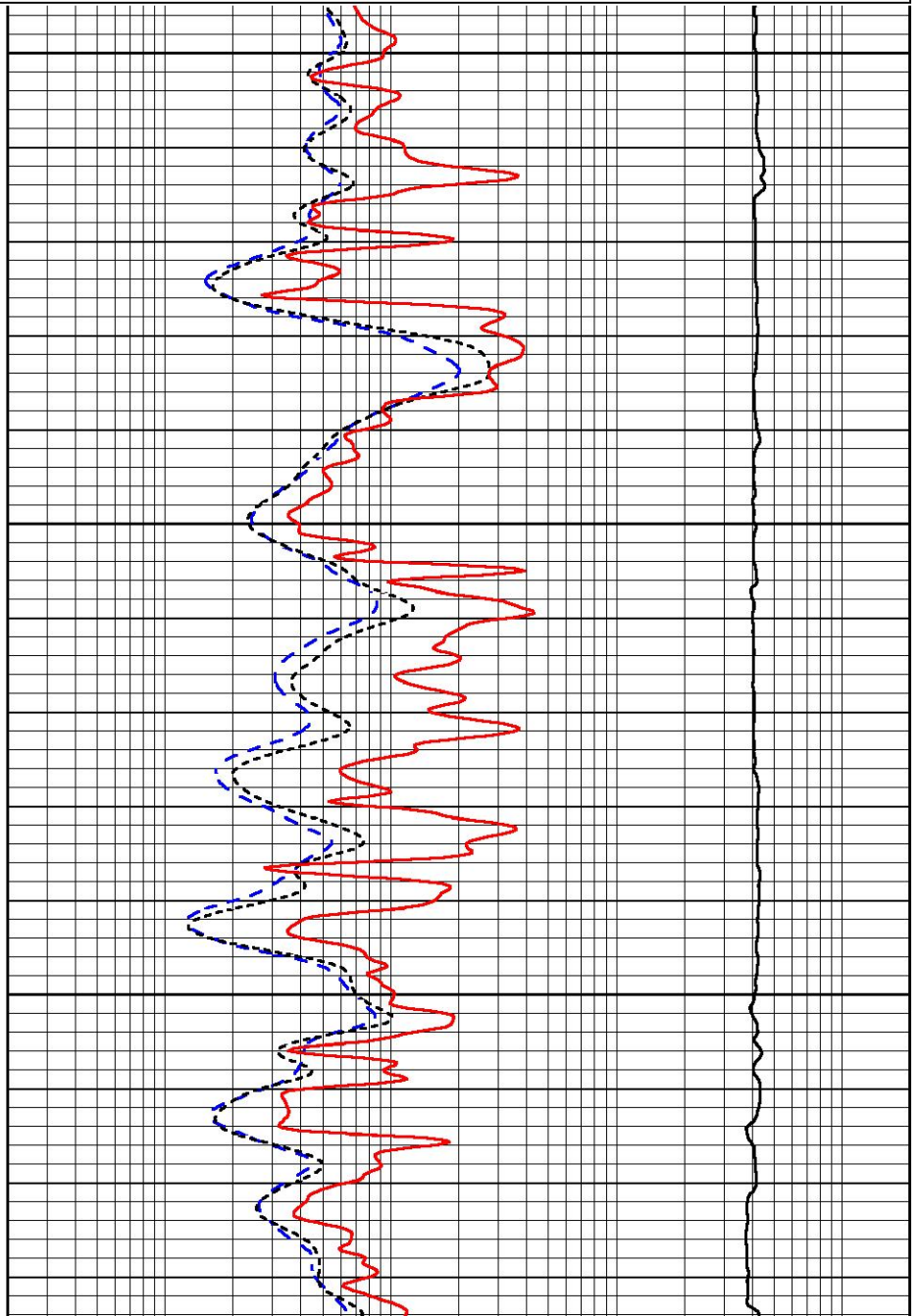
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
10000 Line Tension (lb) 0

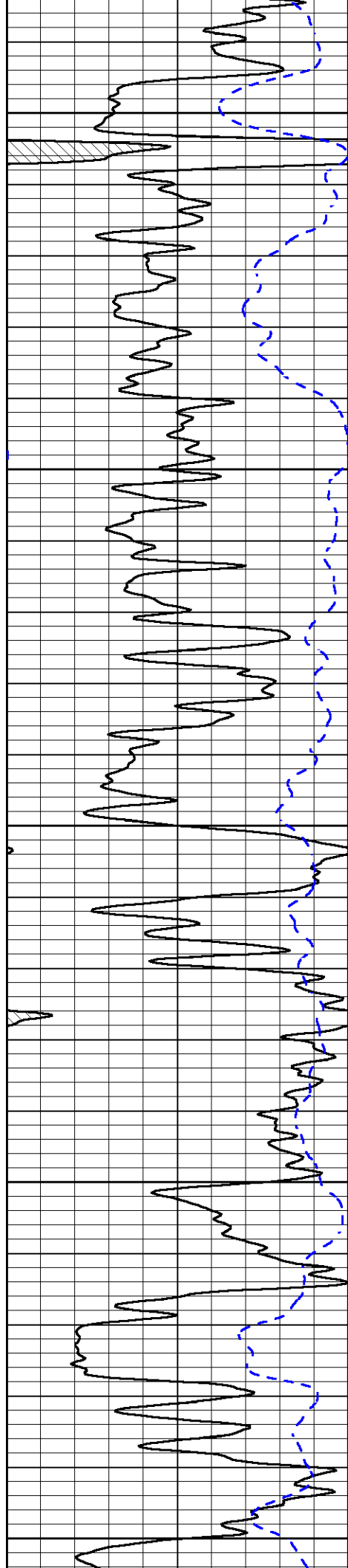


2800

2850

2900





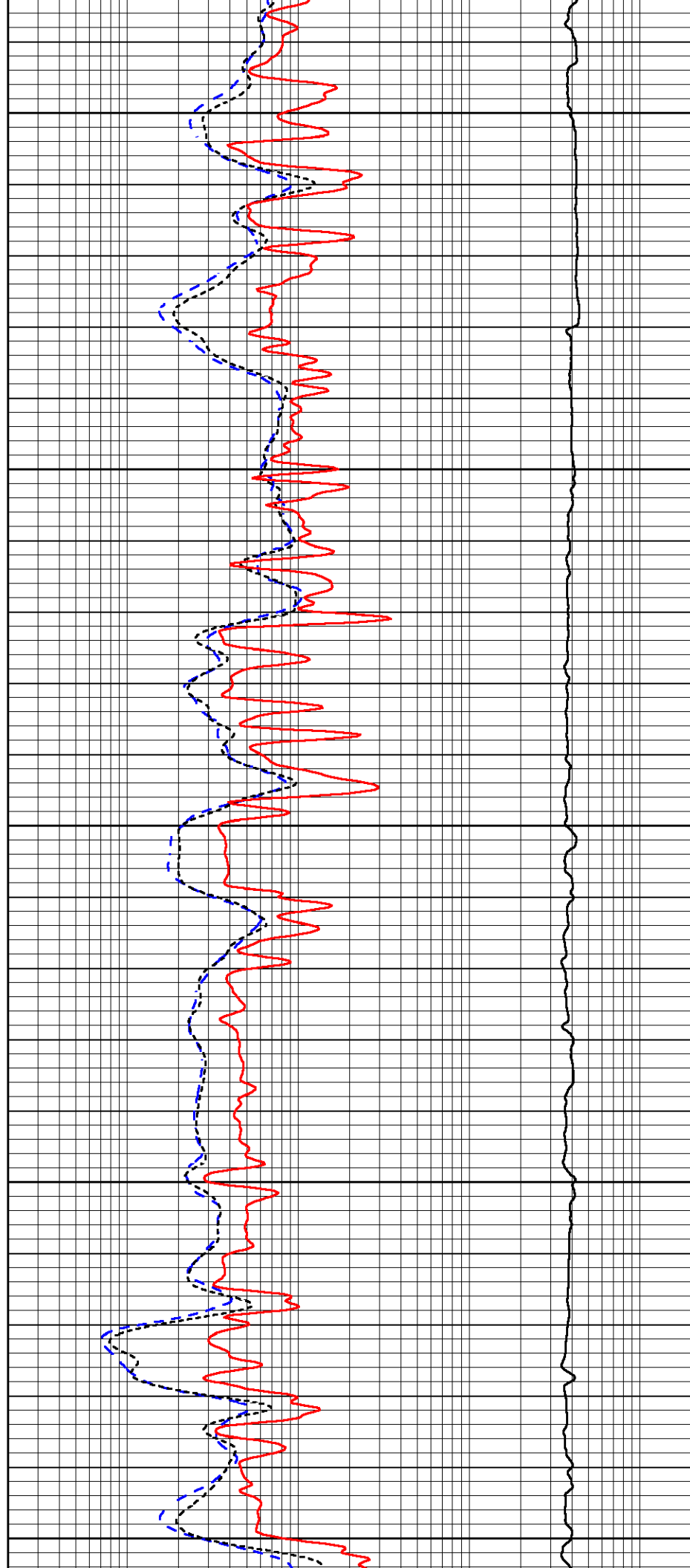
2950

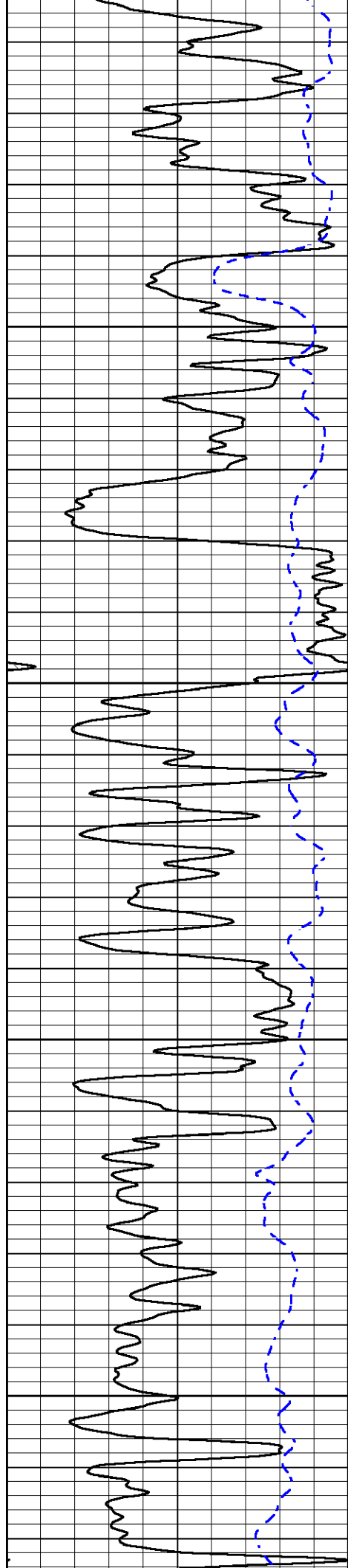
3000

3050

3100

3150



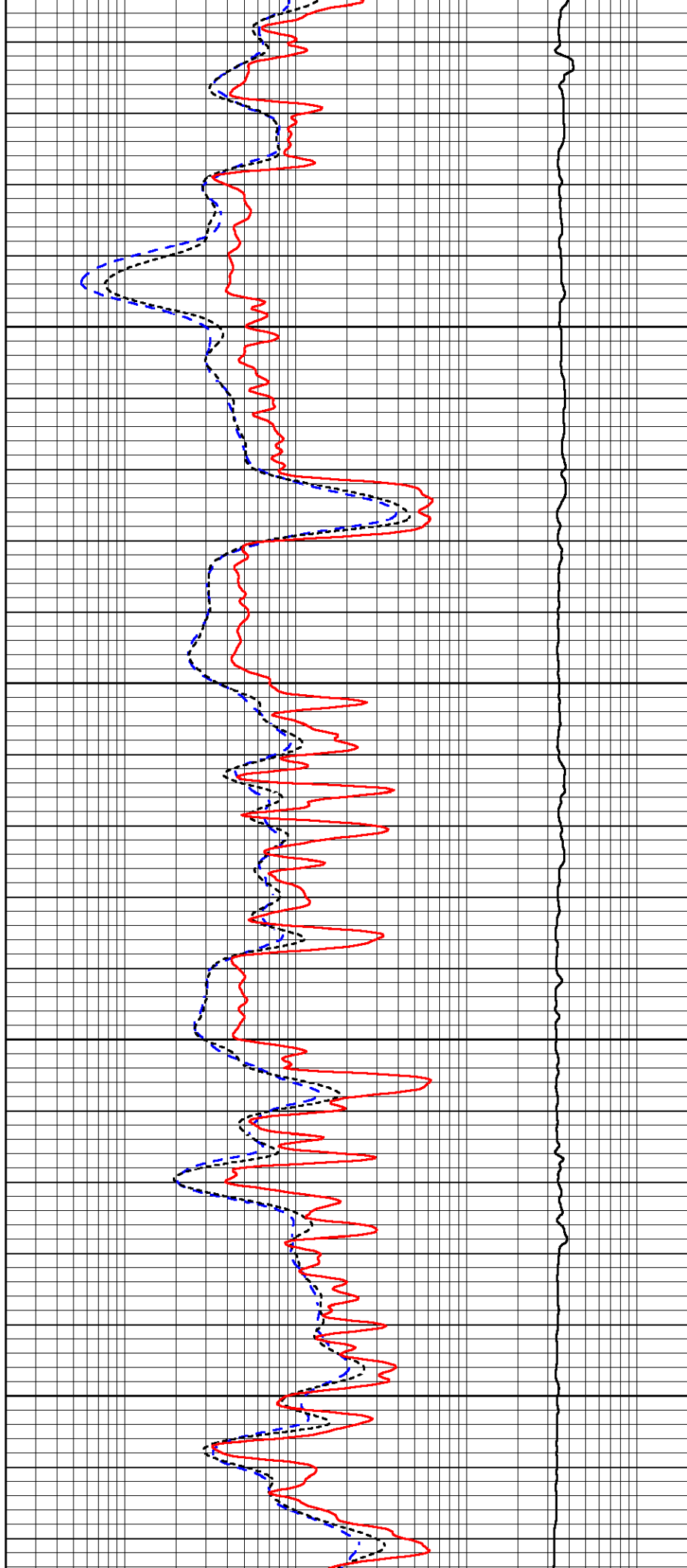


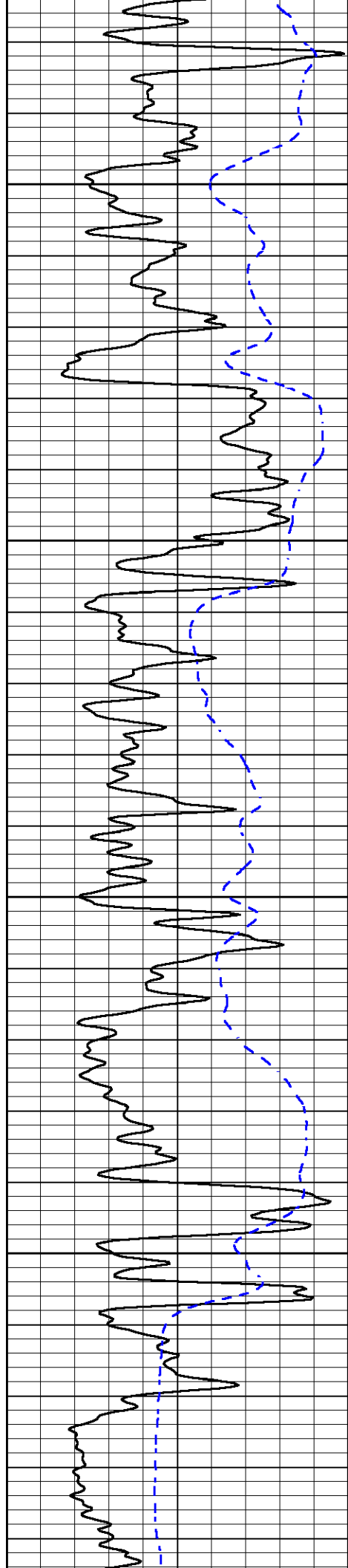
3200

3250

3300

3350



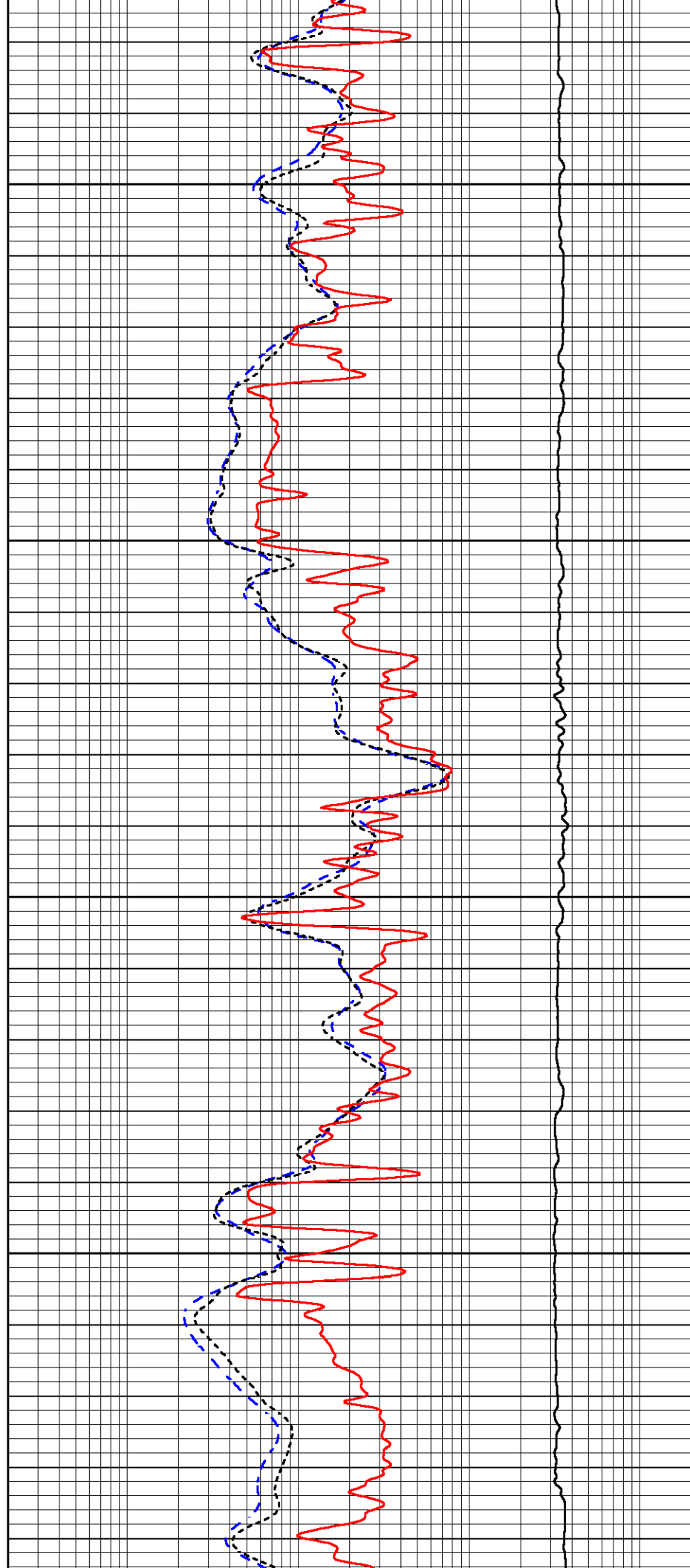


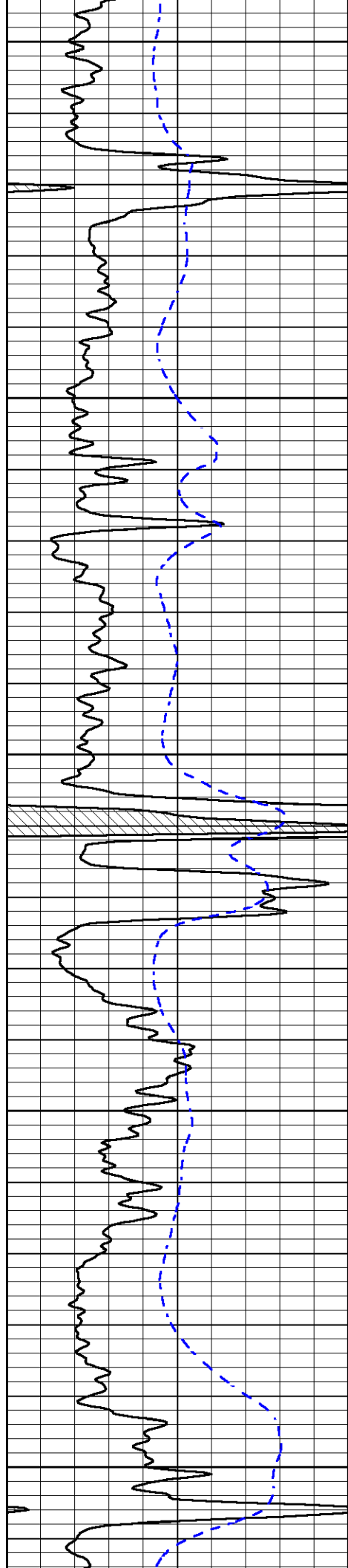
3400

3450

3500

3550





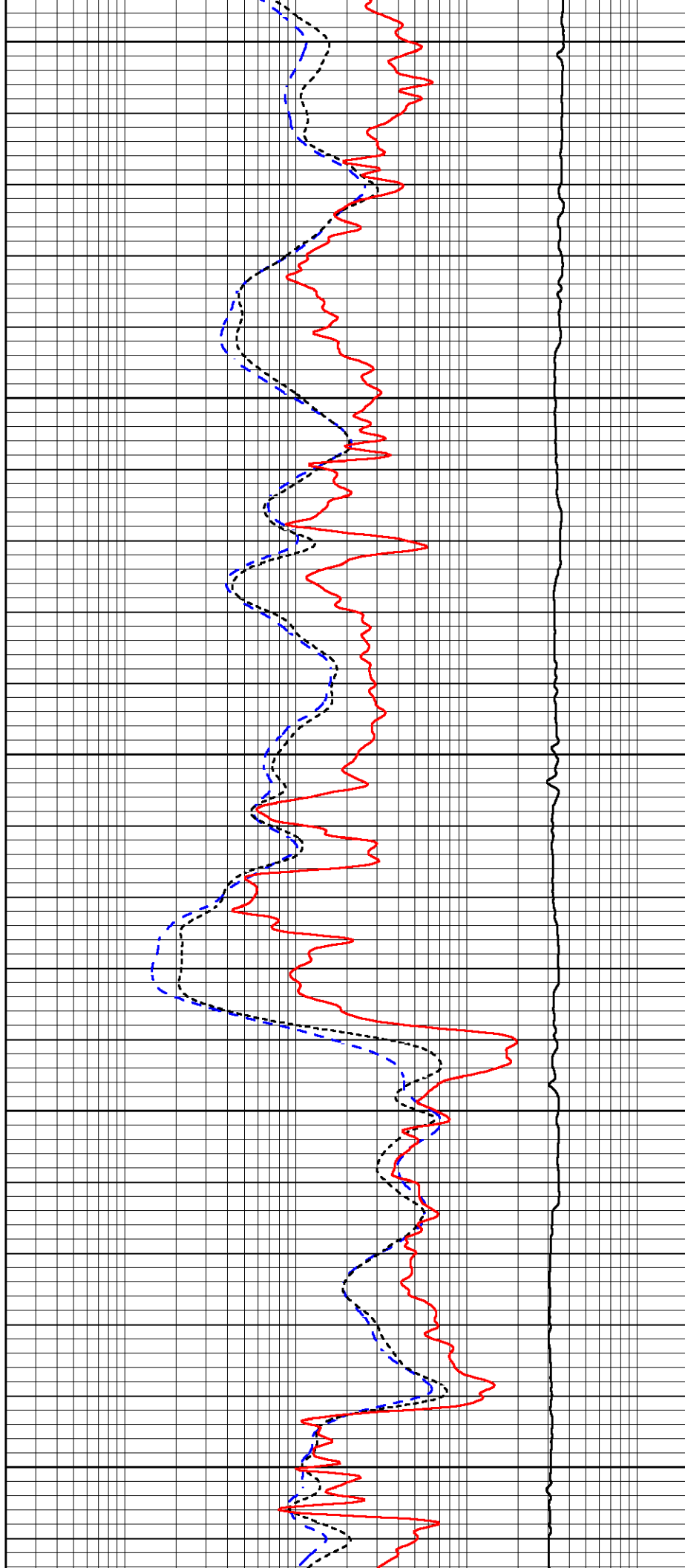
3600

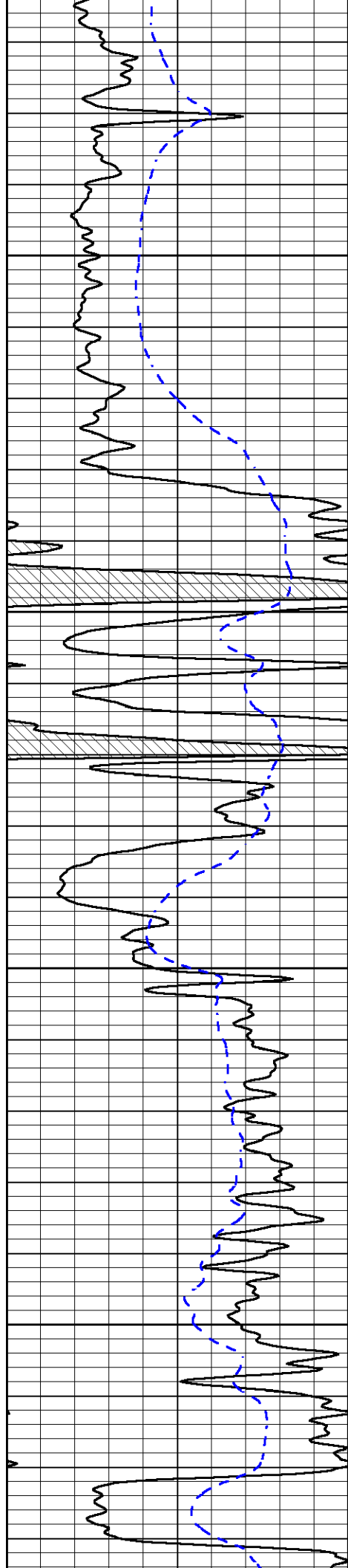
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3700

3750

3800



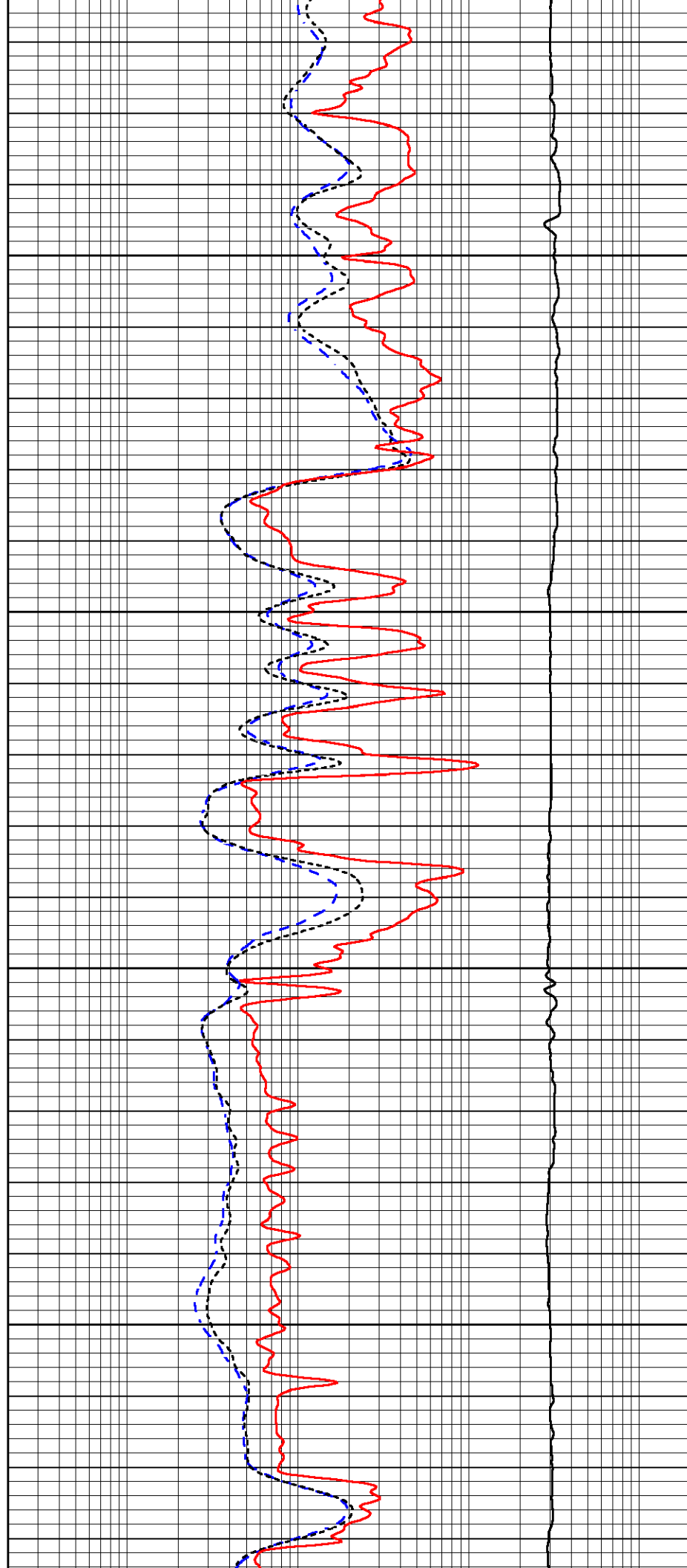


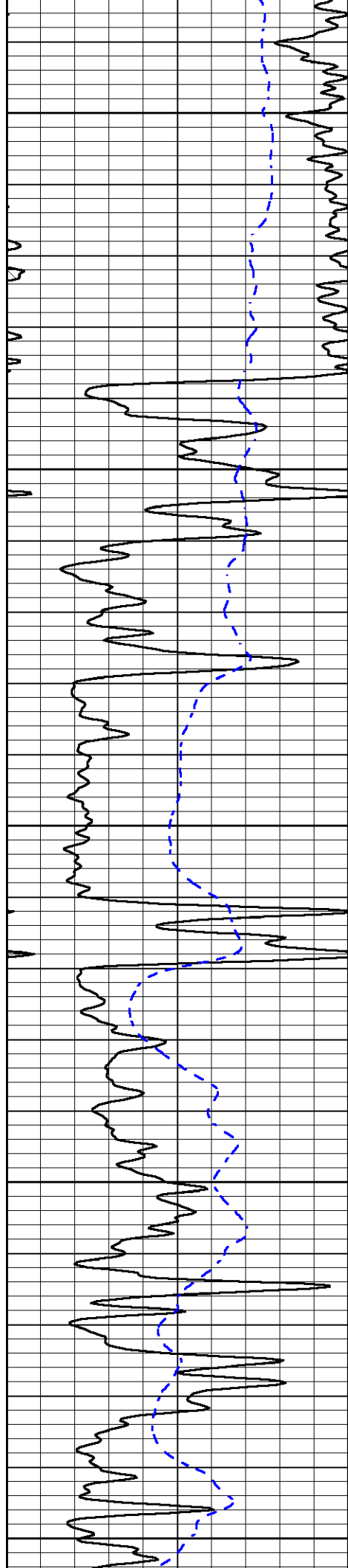
3850

3900

3950

4000





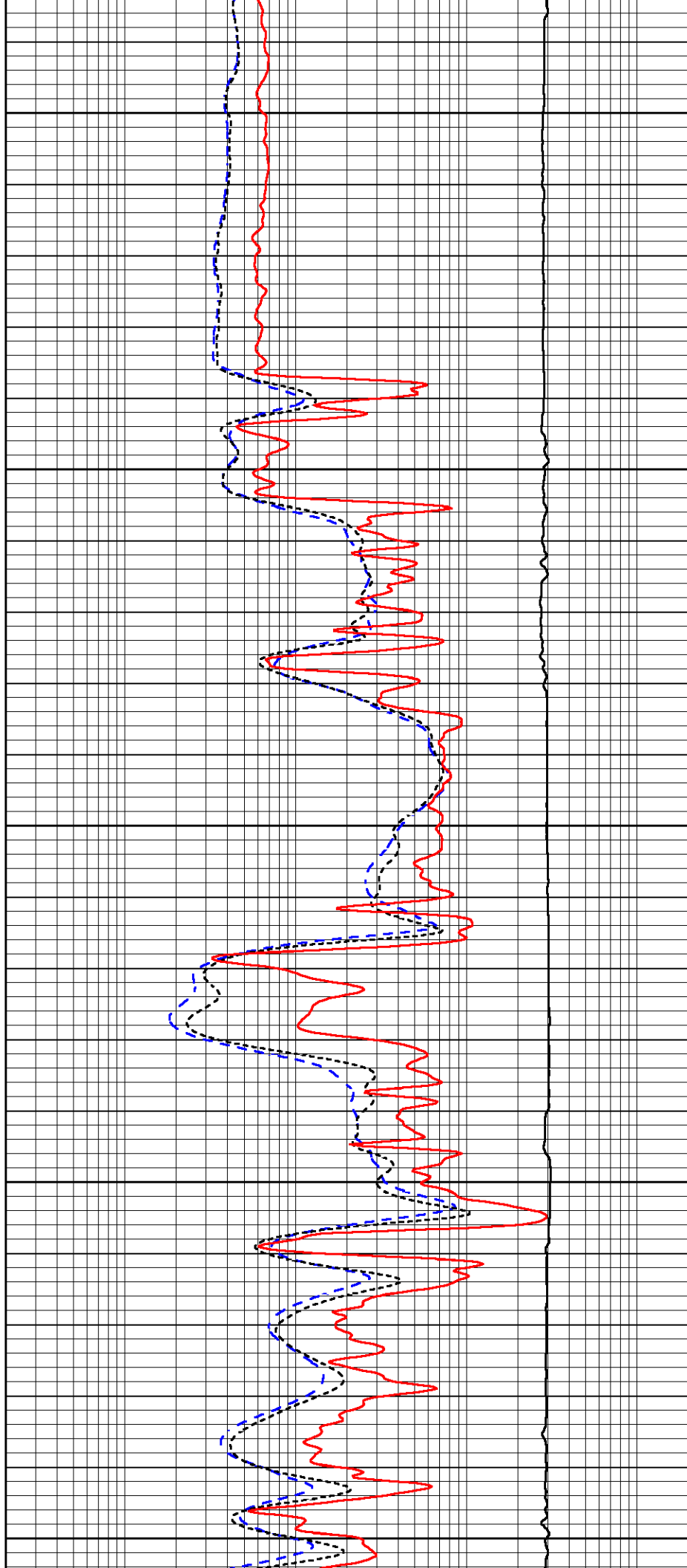
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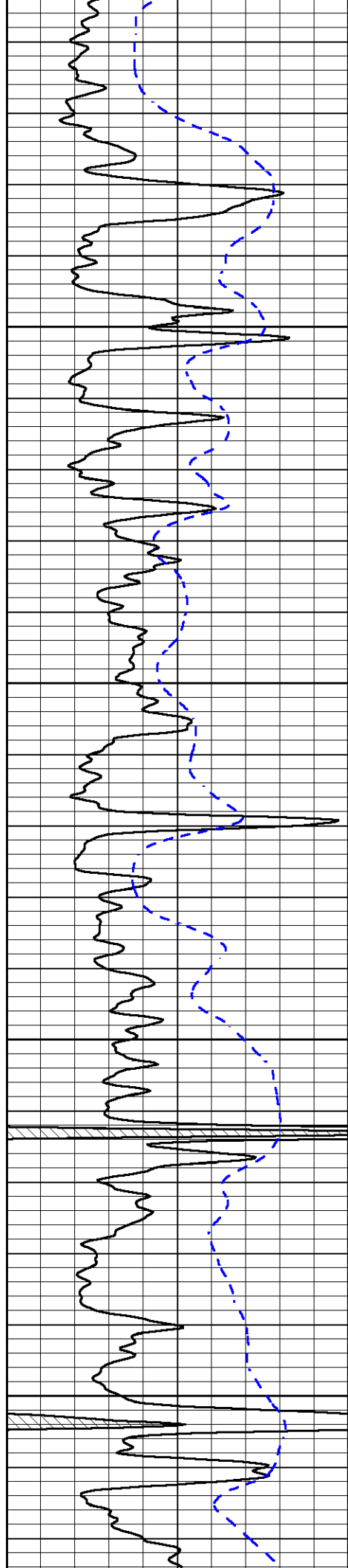
4100

4150

4200

4250



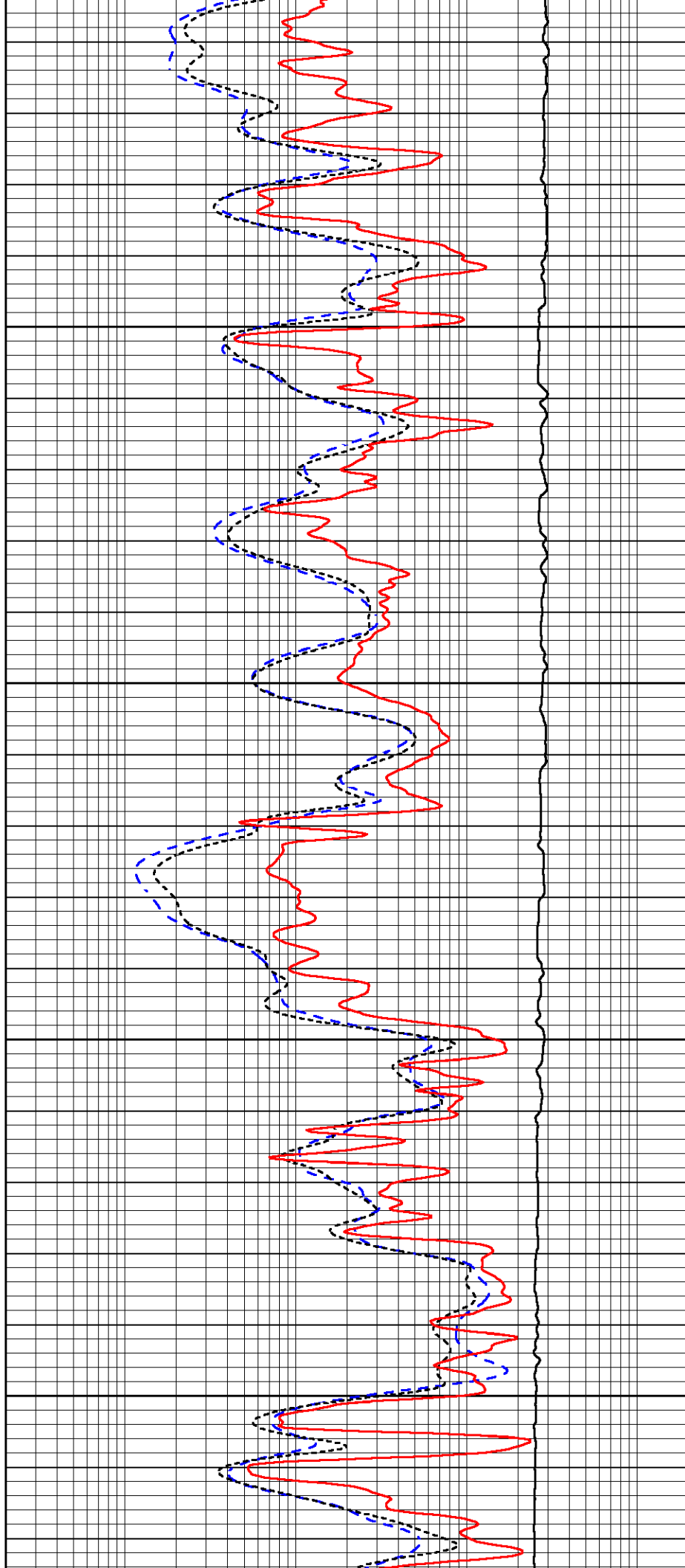


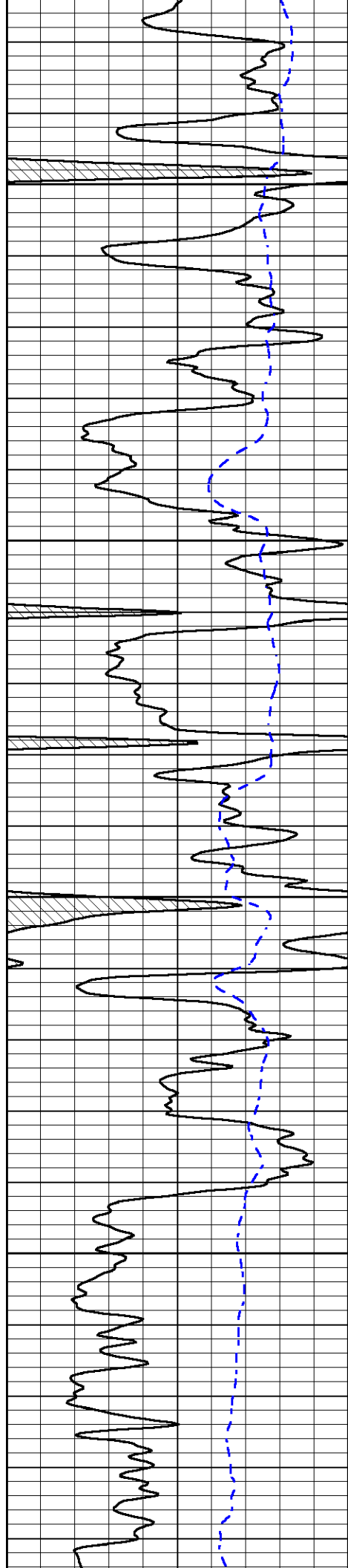
4300

4350

4400

4450



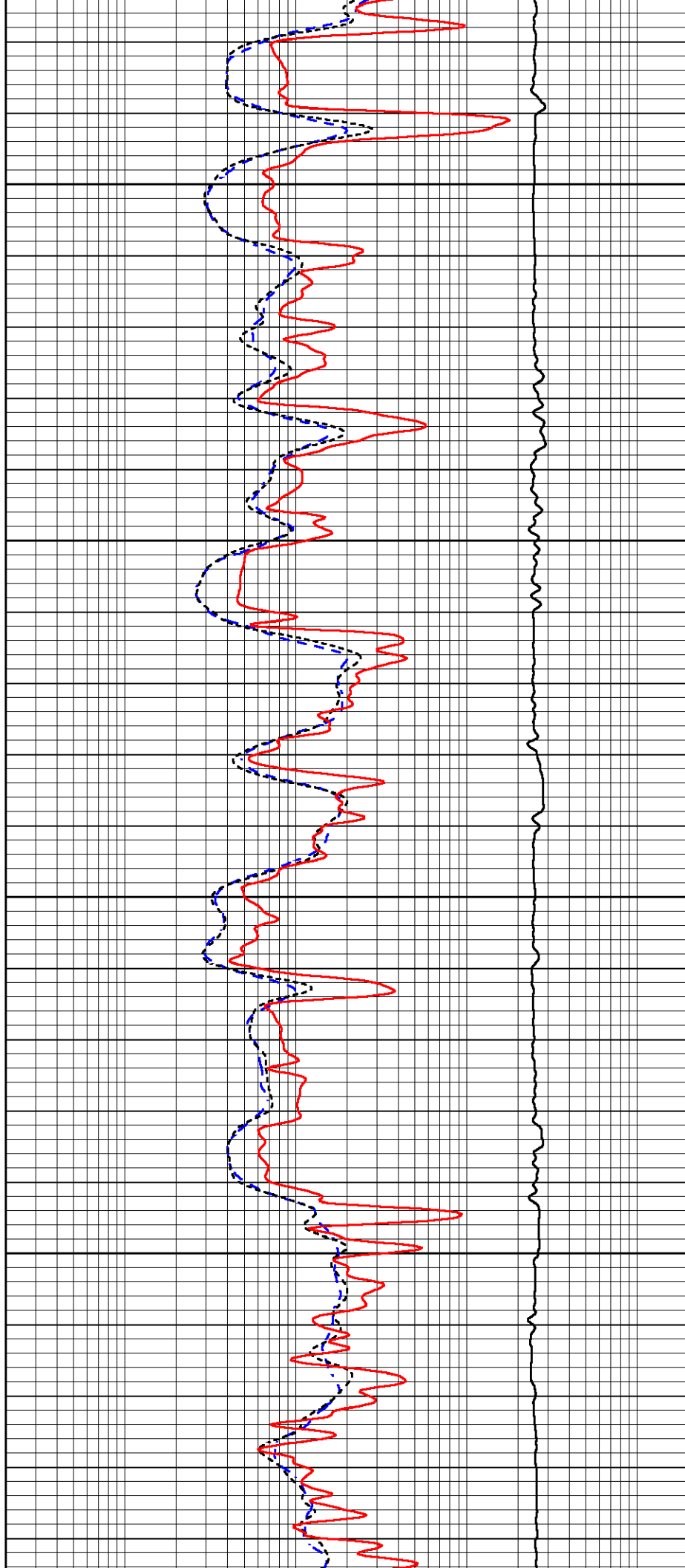


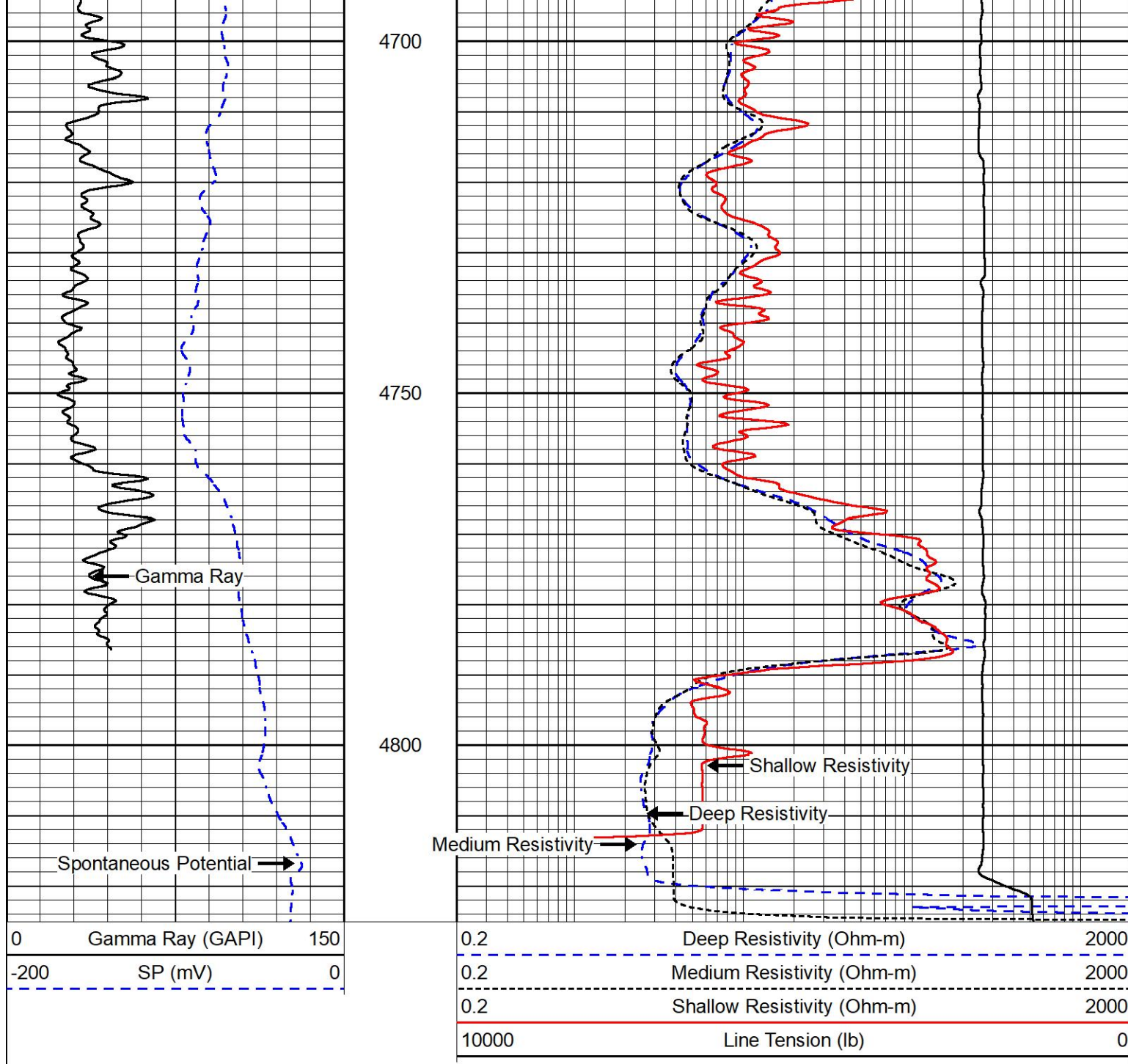
4500

4550

4600

4650





MIDWEST WIRELINE

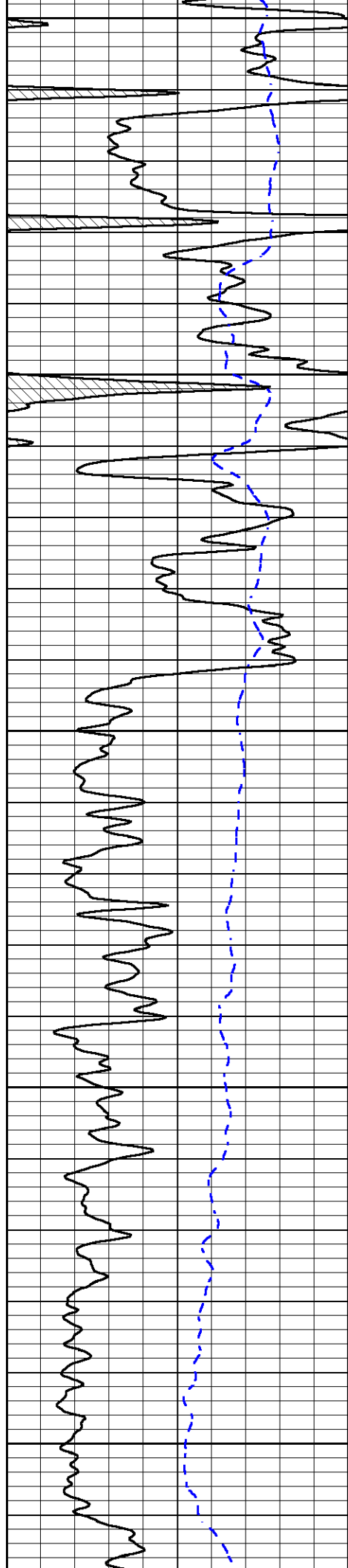
REPEAT SECTION

REPEAT PASS

Database File griffin_cromer_4_1_4.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Wed Dec 01 06:45:40 2021
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



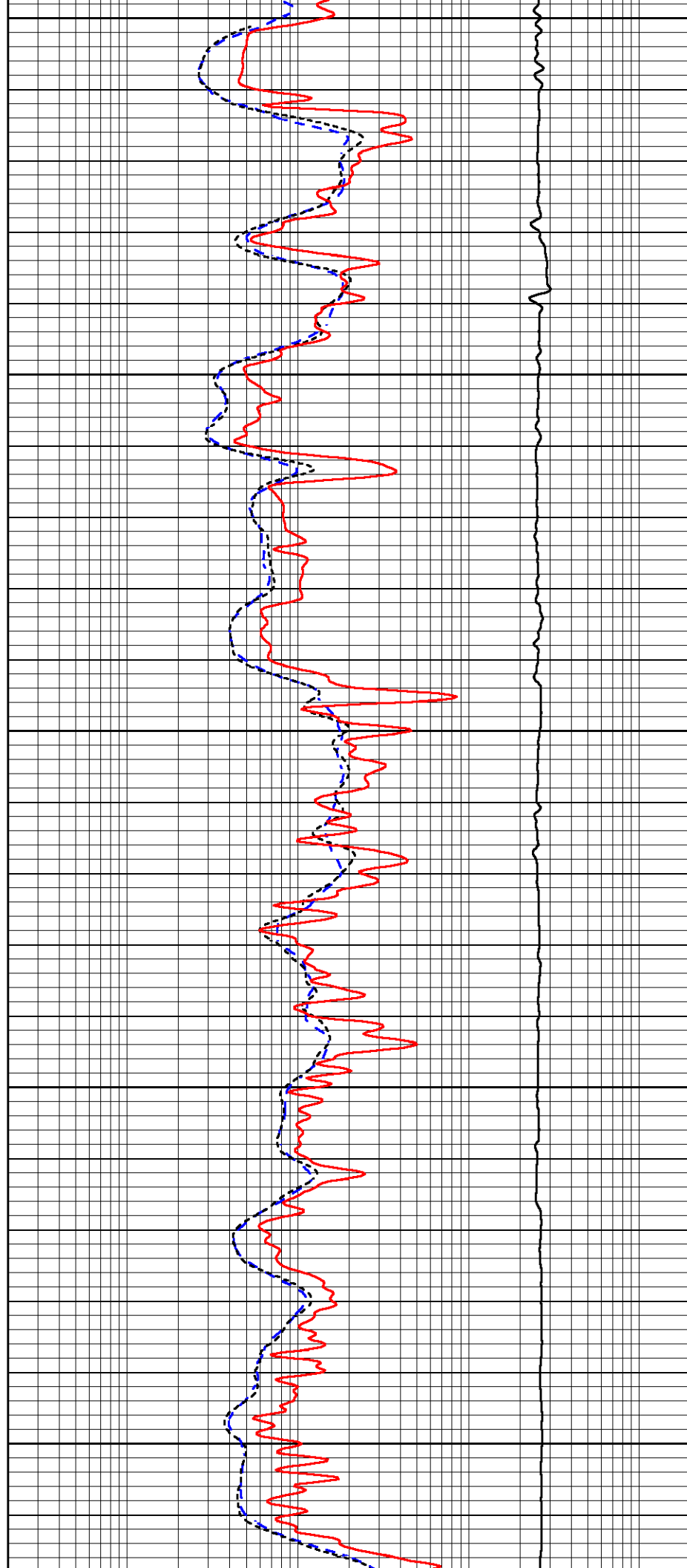
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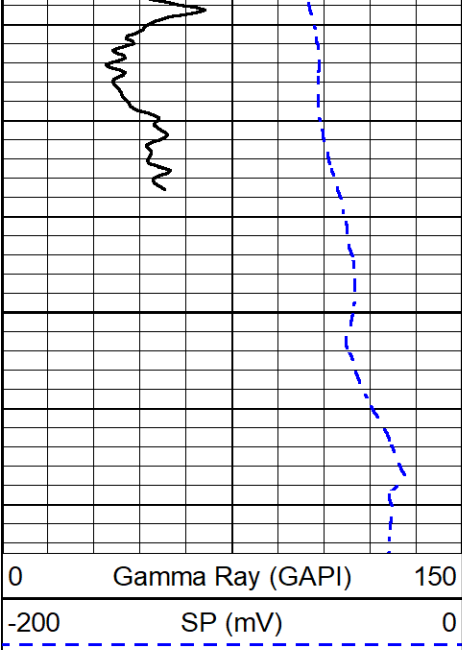
4600

4650

4700

4750





4800

