



PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company **BRISCOE PETROLEUM, LLC**
Well **TAMMY #1**
Field **GROENDYKE**
County **BARBER**
State **KANSAS**

Company **BRISCOE PETROLEUM, LLC**
Well **TAMMY #1**
Field **GROENDYKE**
County **BARBER** State **KANSAS**

Location: API #: 15-007-24368-00-00

Other Services

SEC 35 TWP 33S RGE 12W
2310' FNL & 330' FWL

CNL/CDL
MEL/BHCS

Permanent Datum **GROUND LEVEL** Elevation **1580'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1593'
D.F. N/A
G.L. 1580'

Date **6/28/2020**

Run Number	ONE		
Depth Driller	5320'		
Depth Logger	5319'		
Bottom Logged Interval	5318'		
Top Log Interval	200'		
Casing Driller	8.625" @ 237'		
Casing Logger	236'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	5000		
Density / Viscosity	9.4 57		
pH / Fluid Loss	11.0 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 80		
Rmt @ Meas. Temp	0.30 @ 80		
Rmc @ Meas. Temp	0.54 @ 80		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.25 @ 129		
Operating Rig Time	5 HOURS		
Max Rec. Temp. F	129		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	STEVE MURPHY		

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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 TO GERLANE, 2 3/4 WEST AND SOUTHWEST,
1/4 SOUTH INTO

Log Measured From: **KELLY BUSHING** 13 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:

This Log Record Was Witnessed By

Primary Witness: STEVE MURPHY
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73			CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (817-947)	8.50	4.00	250.00
ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics					7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83						
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
Dataset: briscoe_tammy 1.db: field/well/STKML/pass3.4 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\briscoe_tammy 1.db
Dataset field/well/STKML/pass3.4/_vars_

Top - Bottom

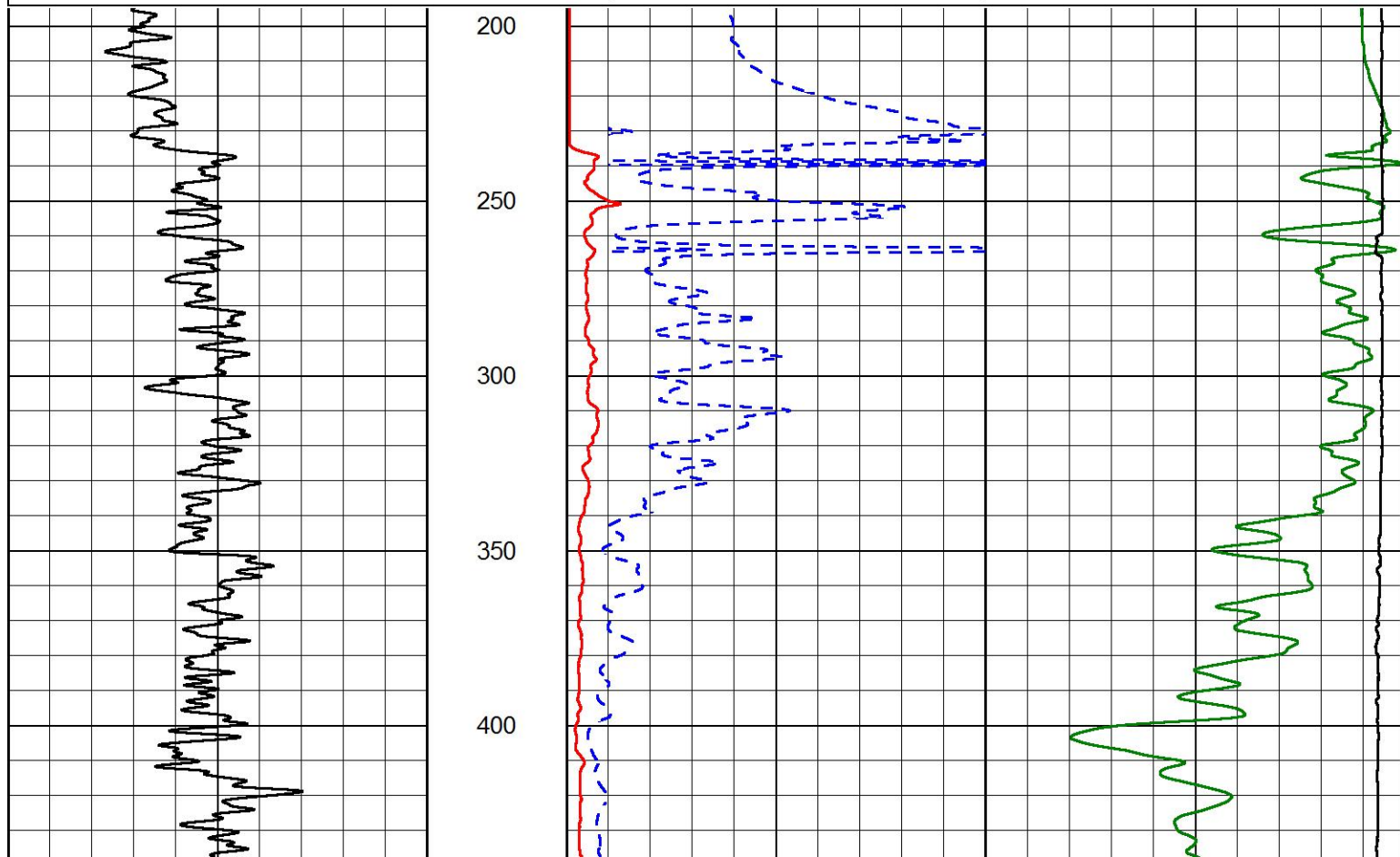
A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	100	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	340	0		0



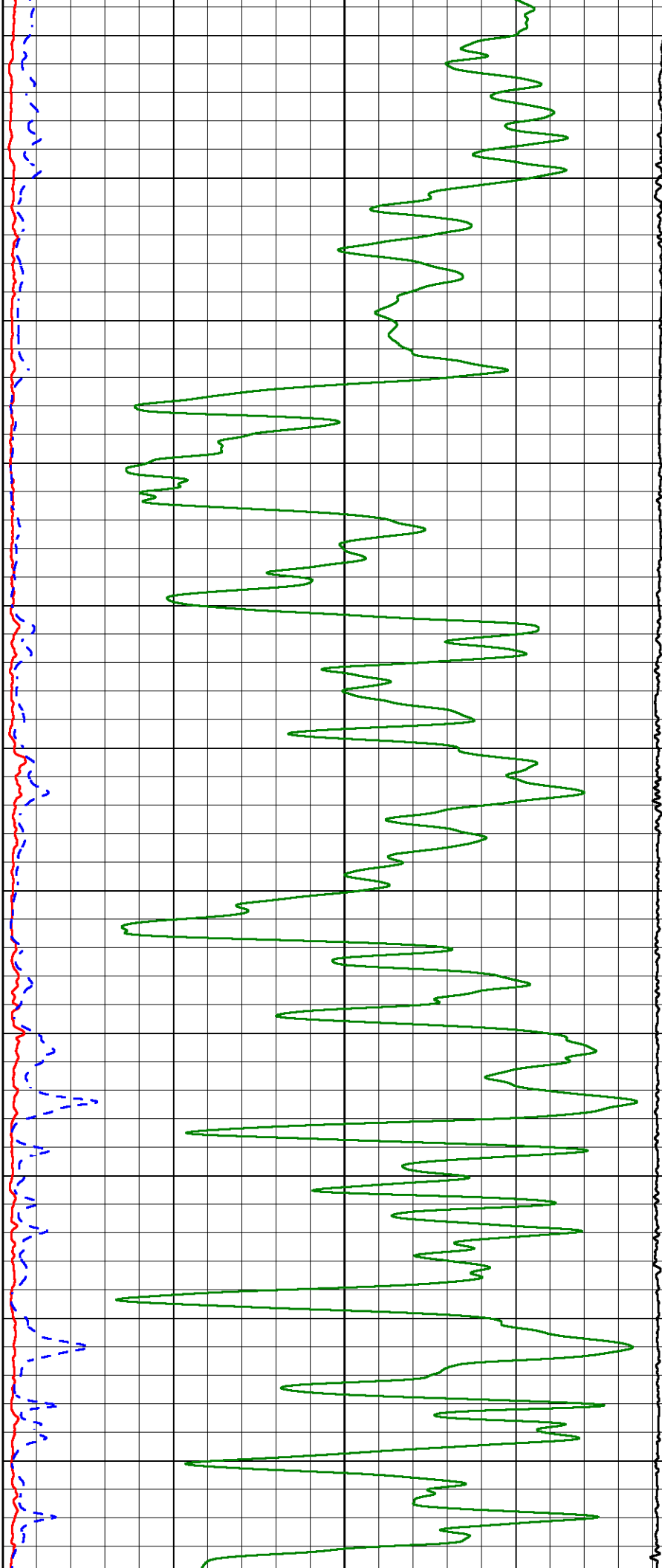
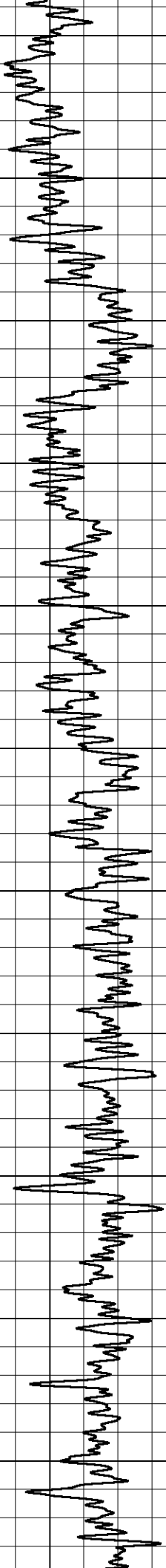
MAIN PASS

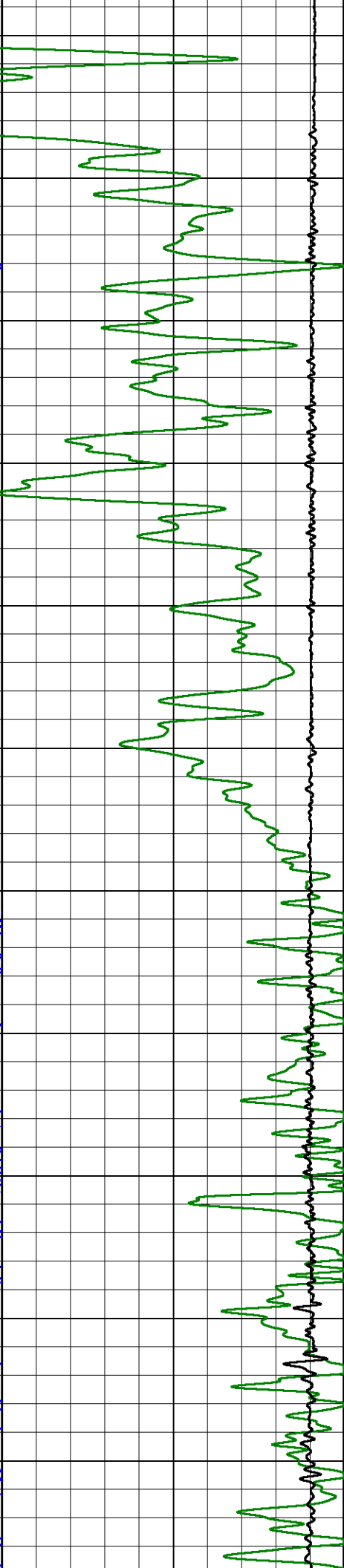
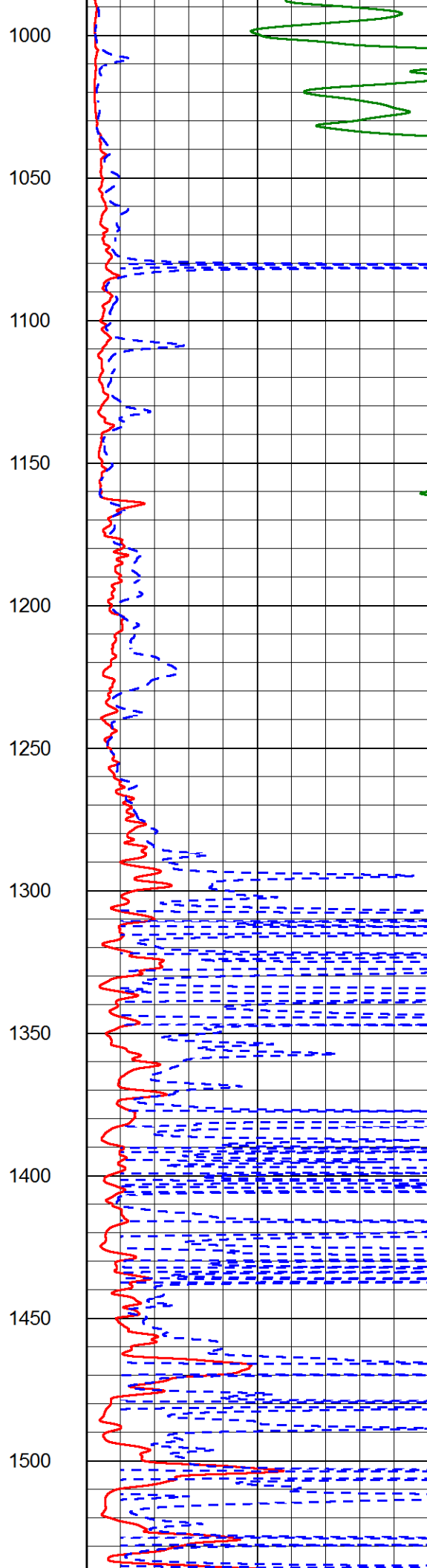
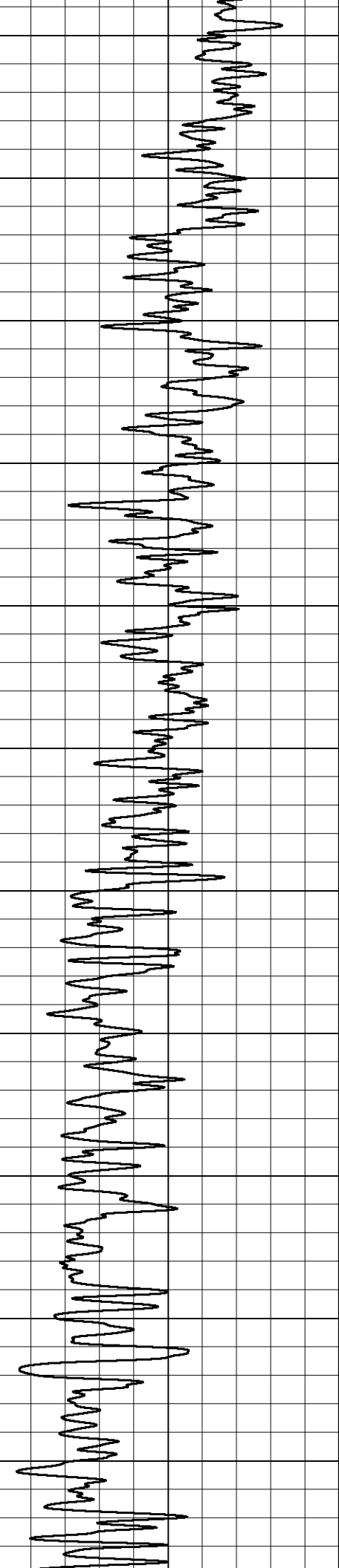
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Presentation Format _dil2in
Dataset Creation Sun Jun 28 10:20:58 2020
Charted by Depth in Feet scaled 1:600

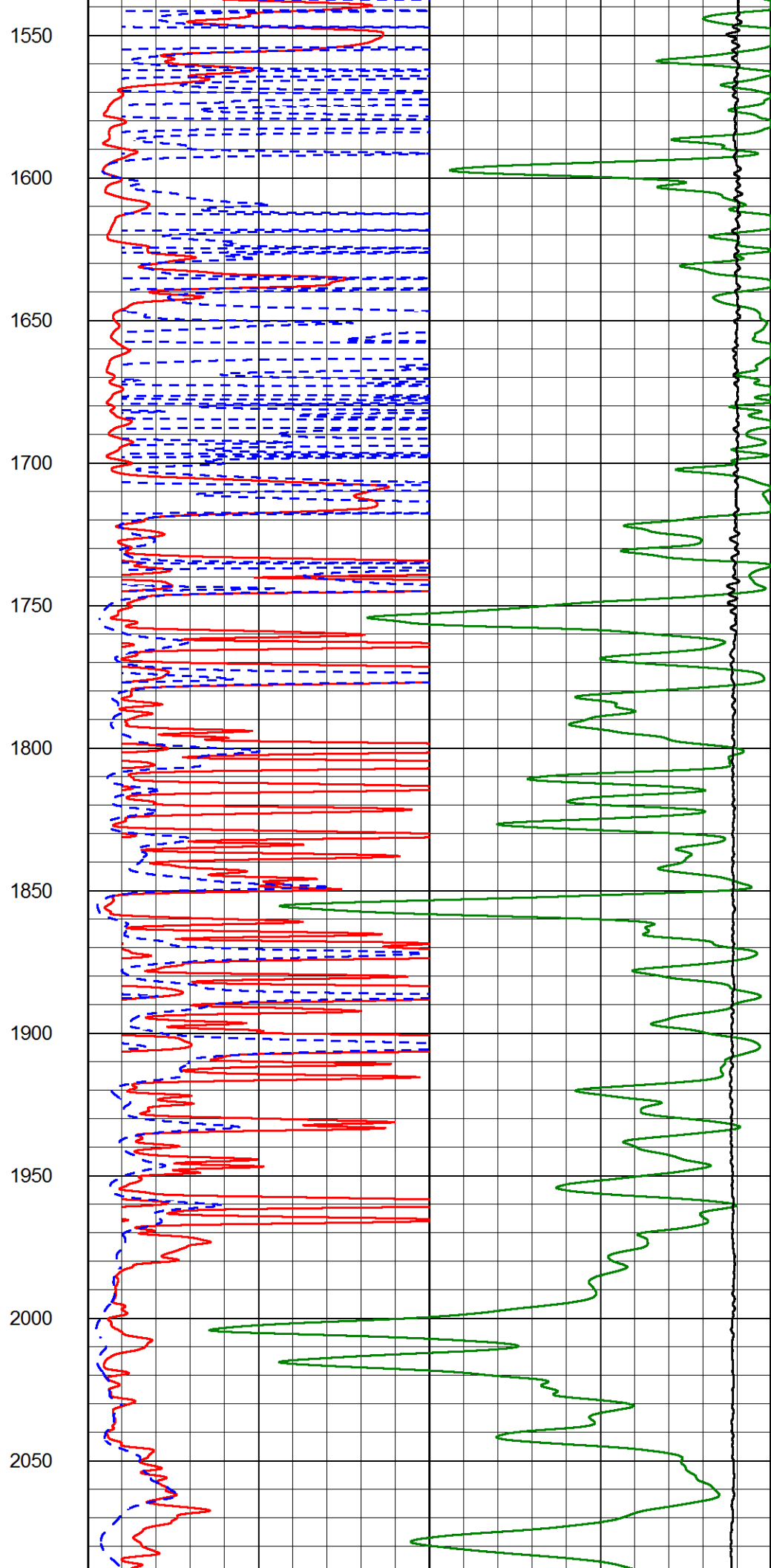
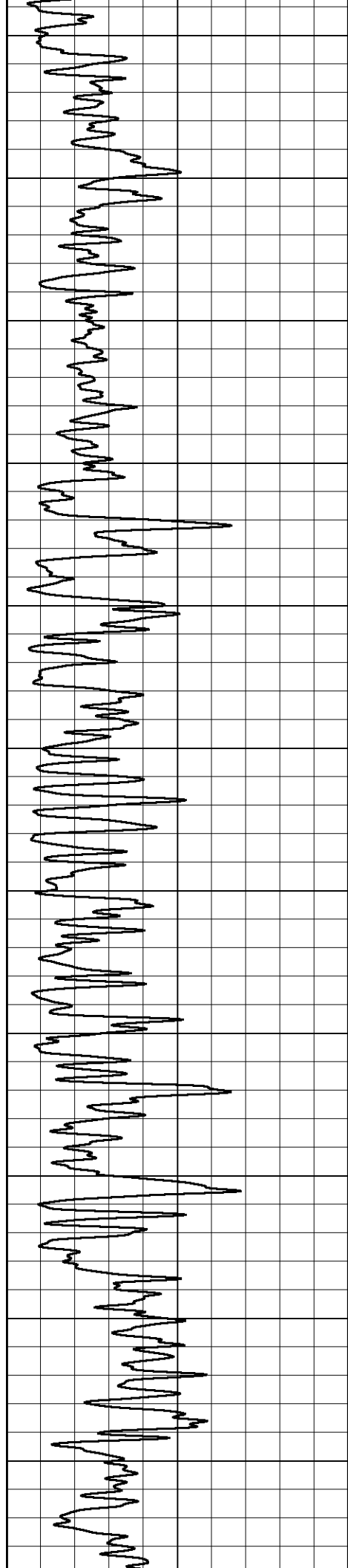
GAMMA RAY (GAPI)	1000	CONDUCTIVITY (mmho/m)	0
	15000	Line Tension (lb)	0
	0	RLL3 (Ohm-m)	50
	0	RILD (Ohm-m)	50
	50	RLL3 (Ohm-m)	200
	50	Deep Resistivity (Ohm-m)	200

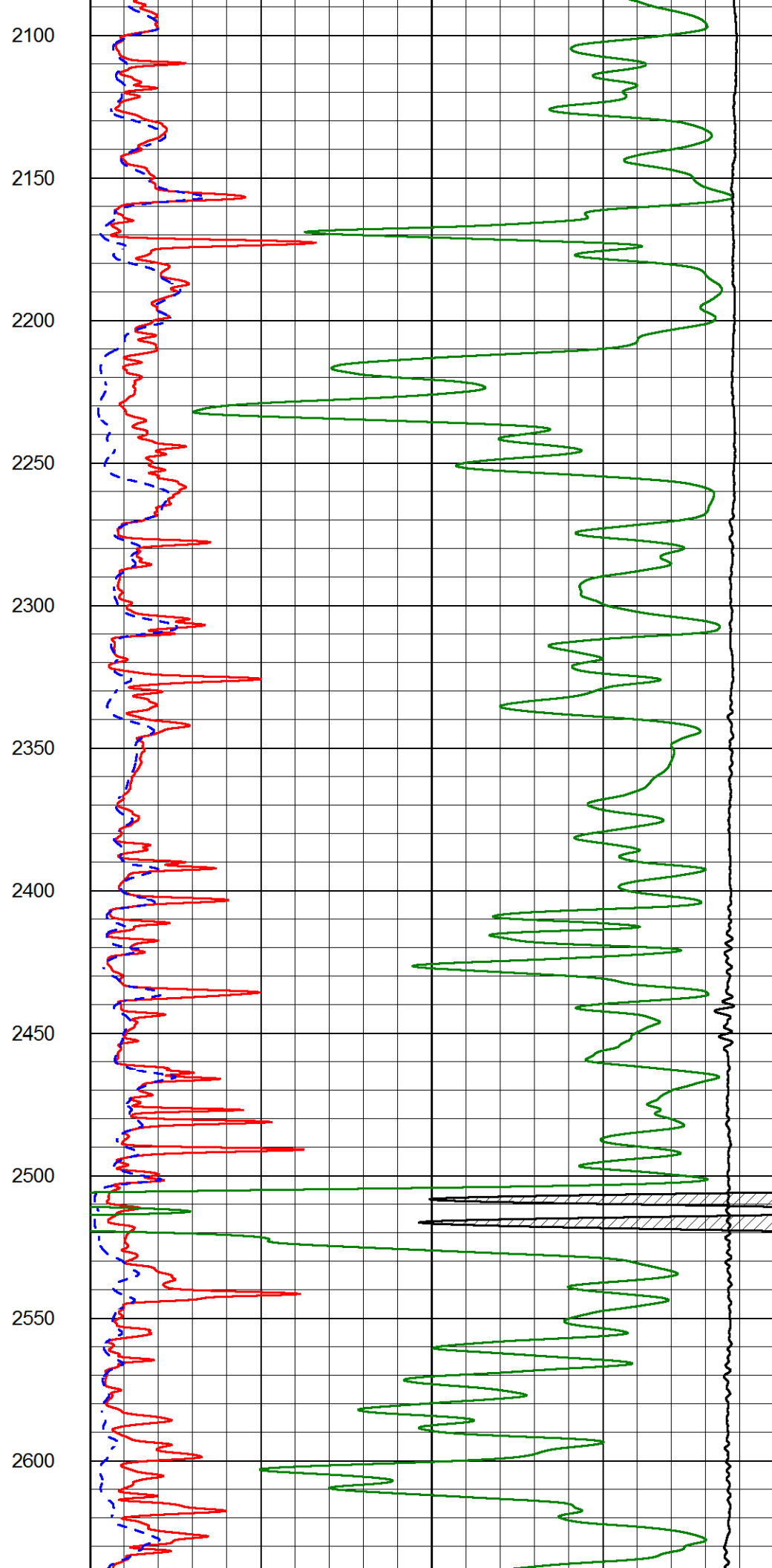
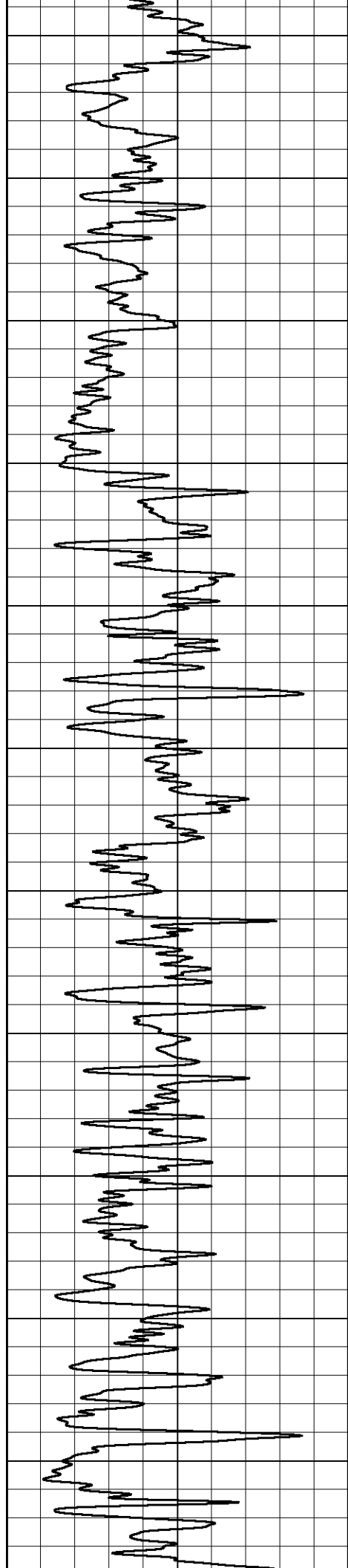


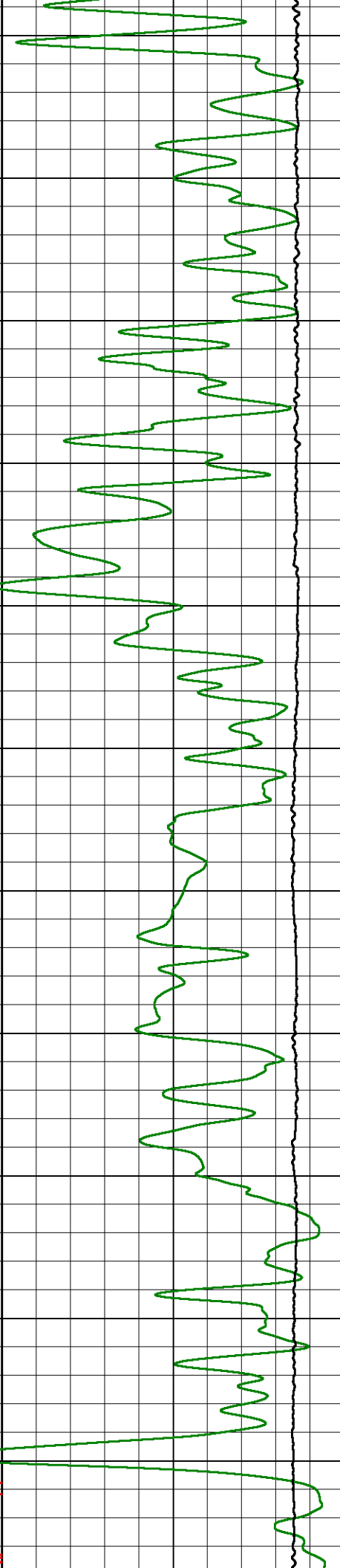
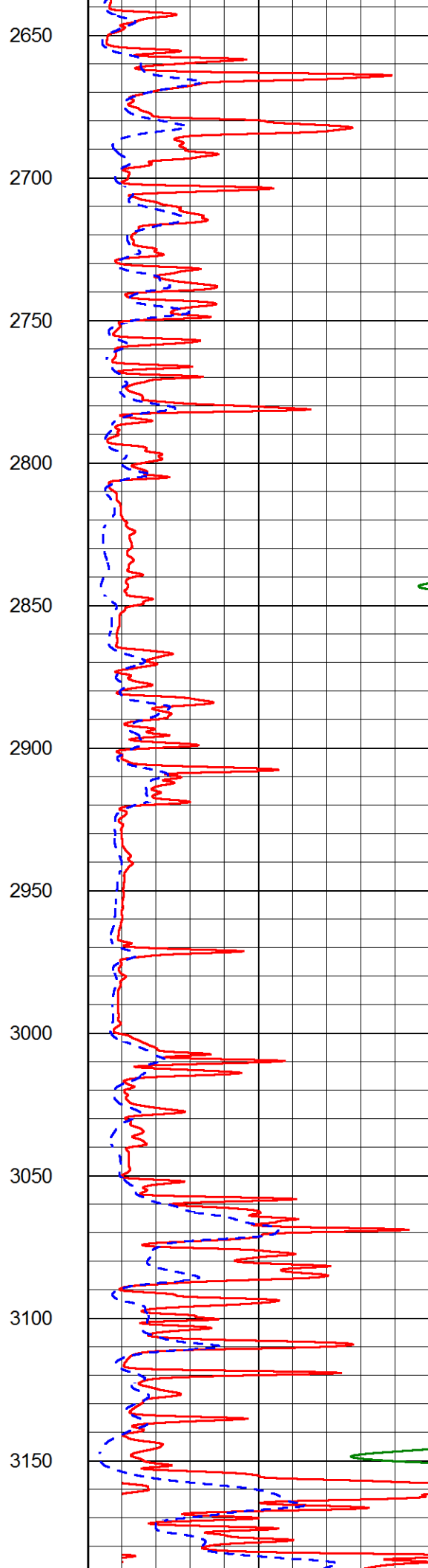
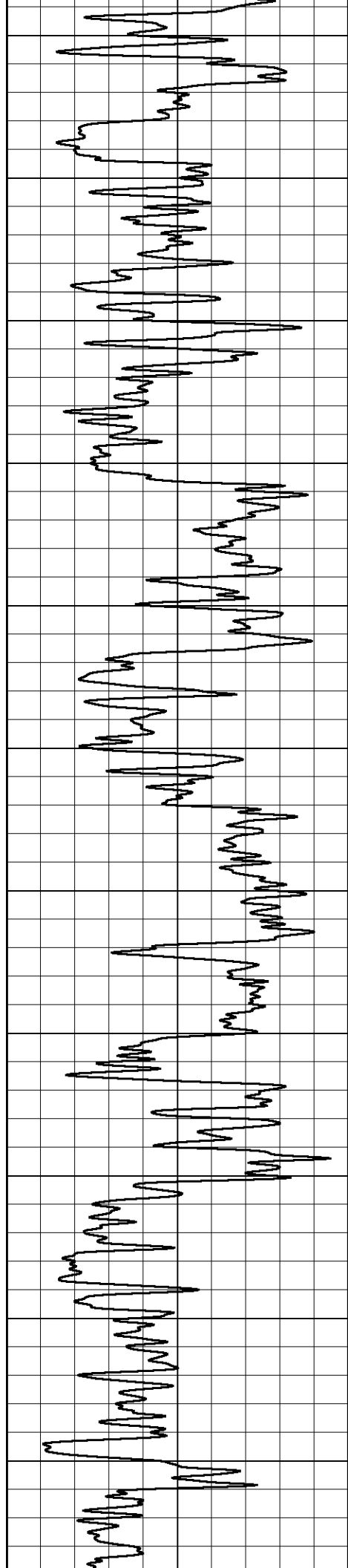
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500
550
600
650
700
750
800
850
900
950

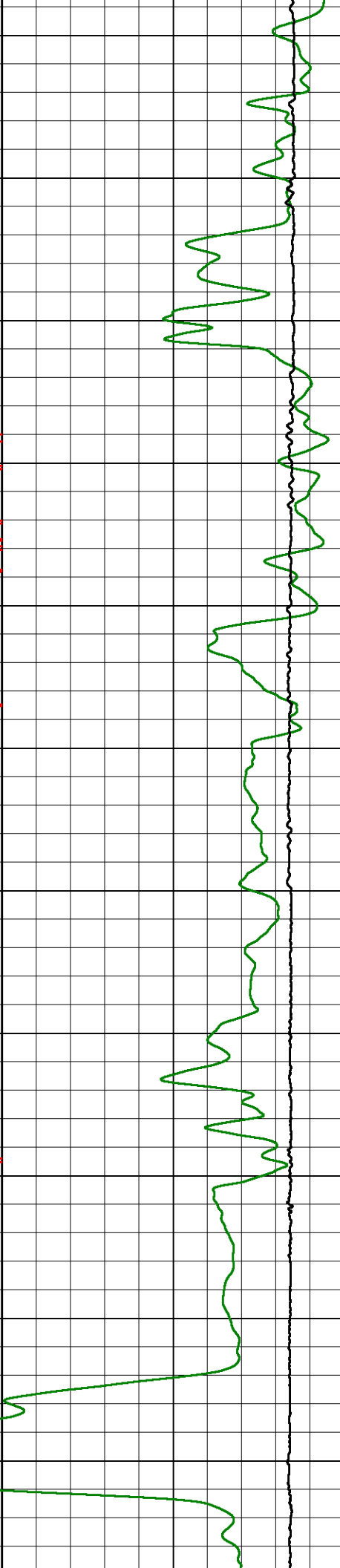
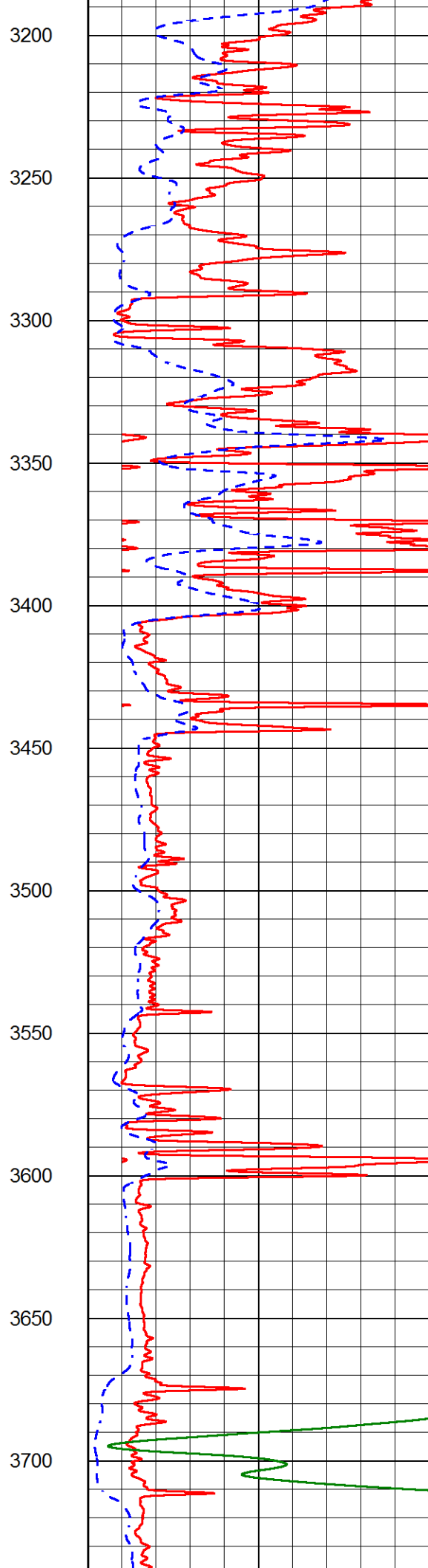
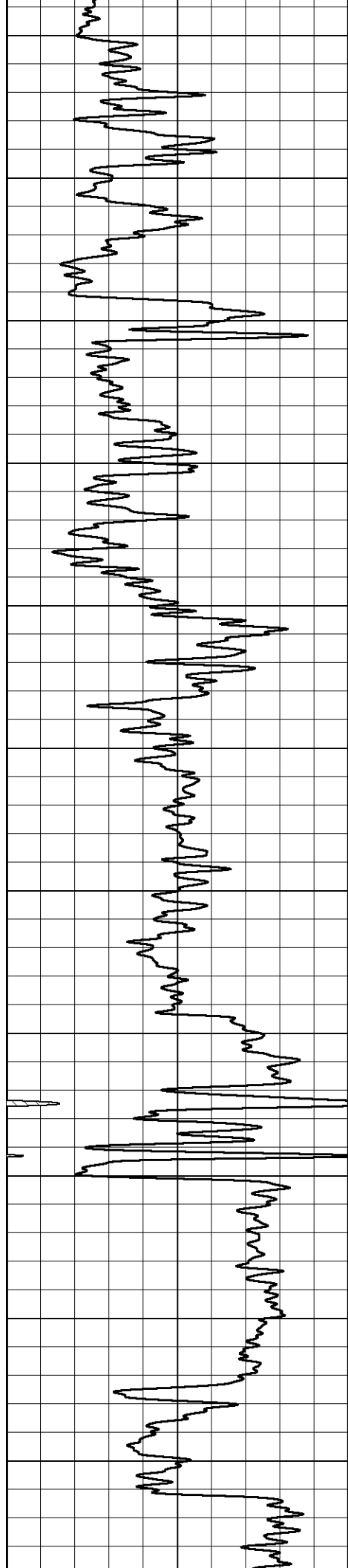


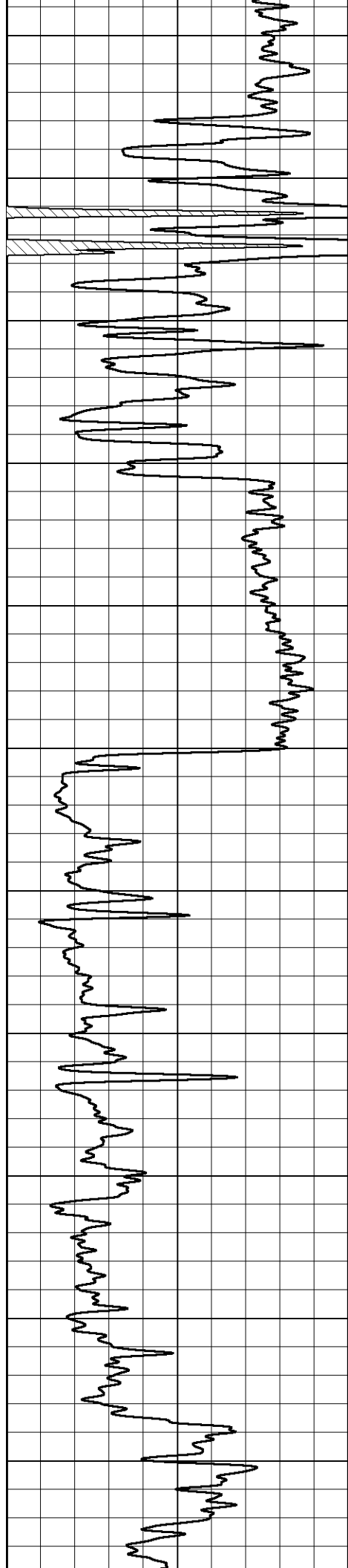












3750

3800

3850

3900

3950

4000

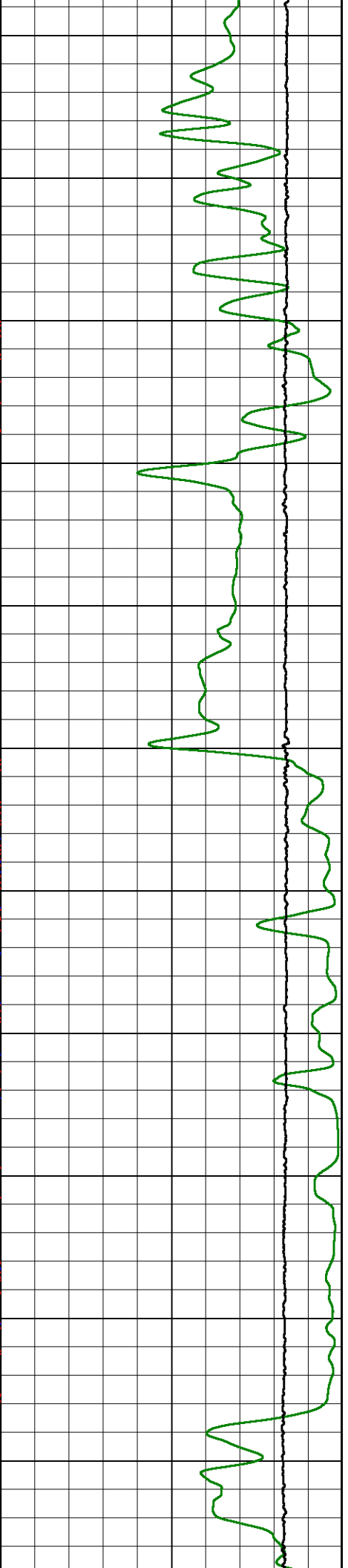
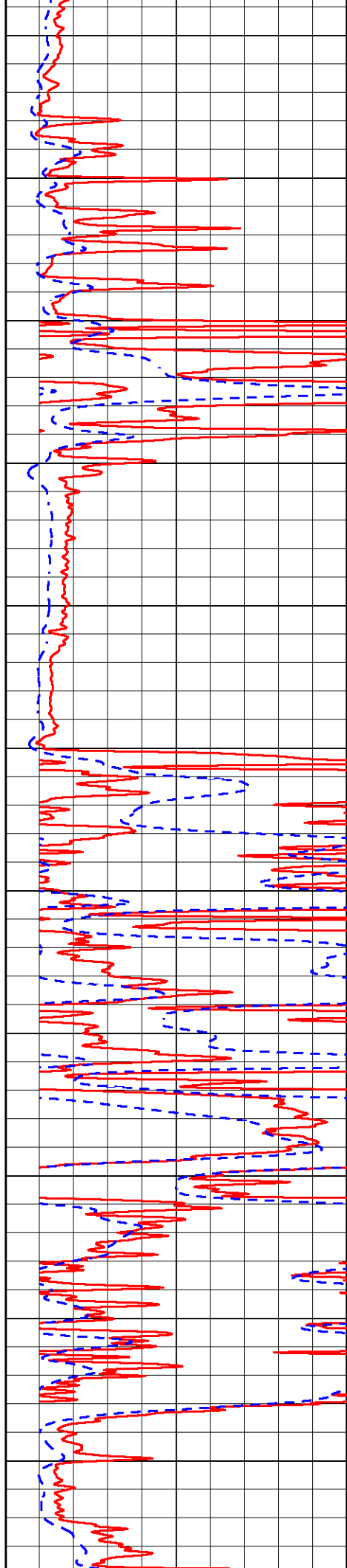
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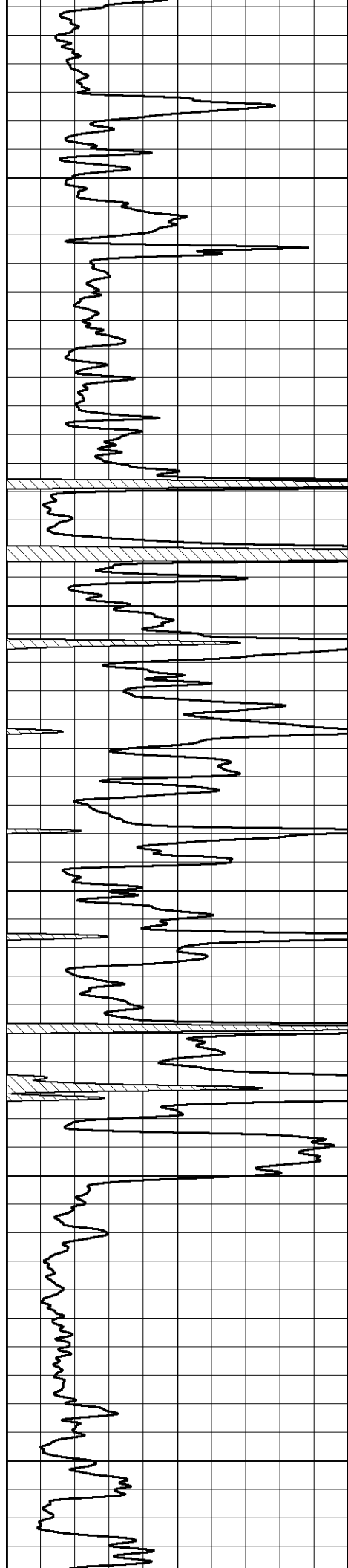
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4150

4200

4250





4300

4350

4400

4450

4500

4550

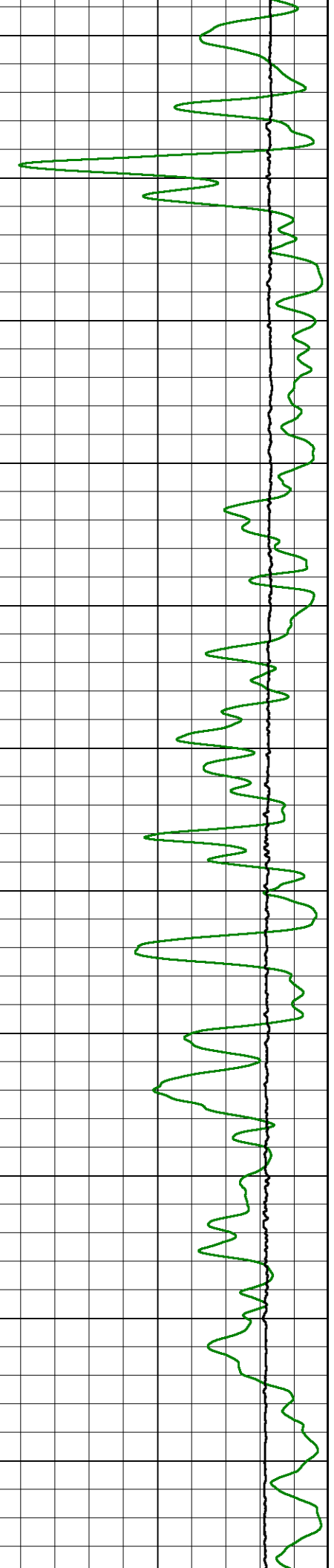
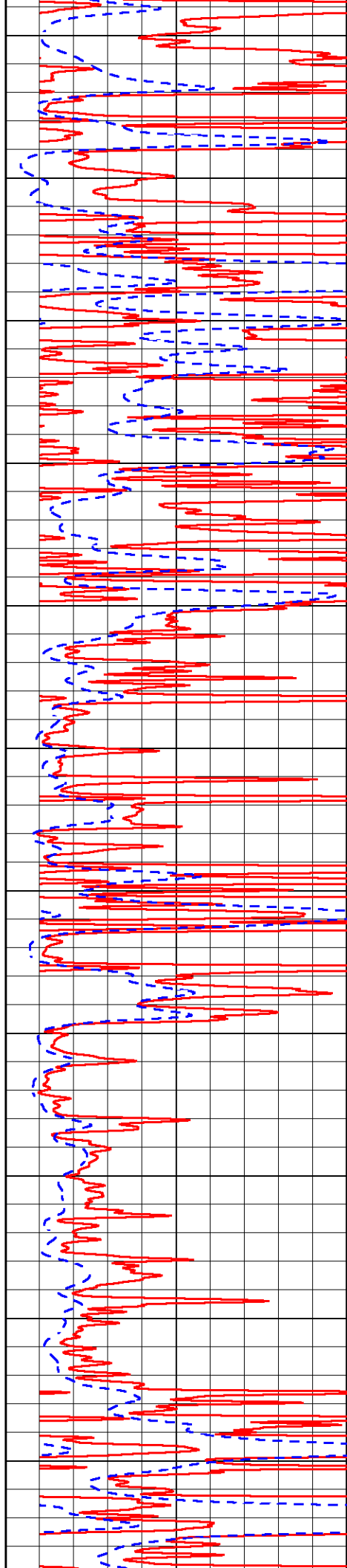
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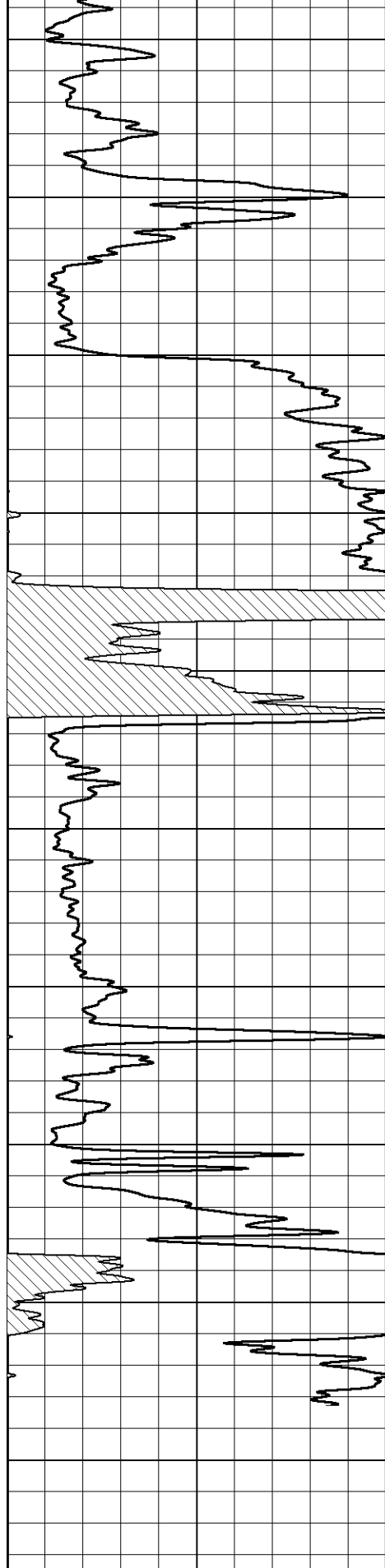
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4700

4750

4800

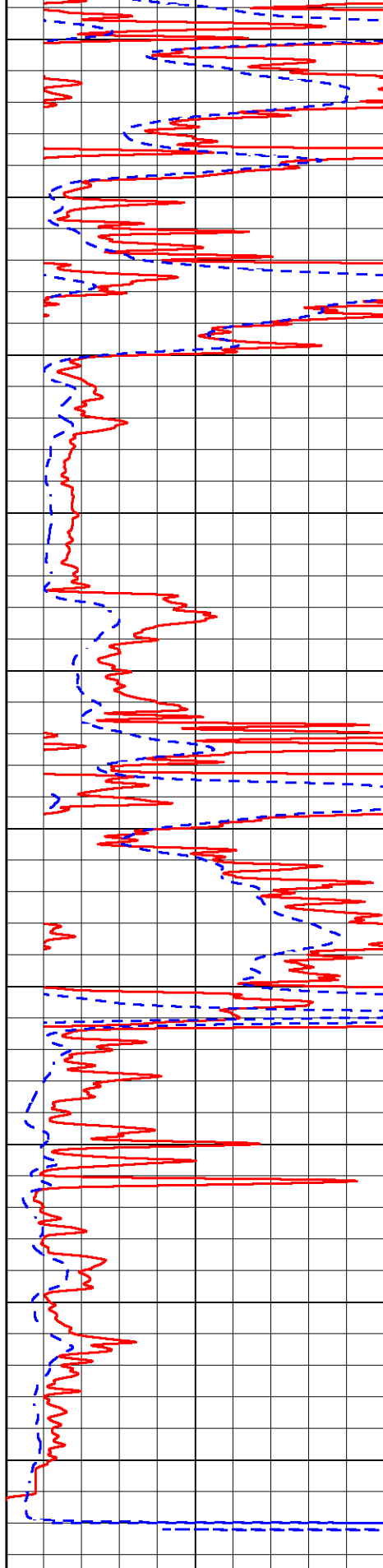




GAMMA RAY

0 (GAPI) 150

4850
4900
4950
5000
5050
5100
5150
5200
5250
5300



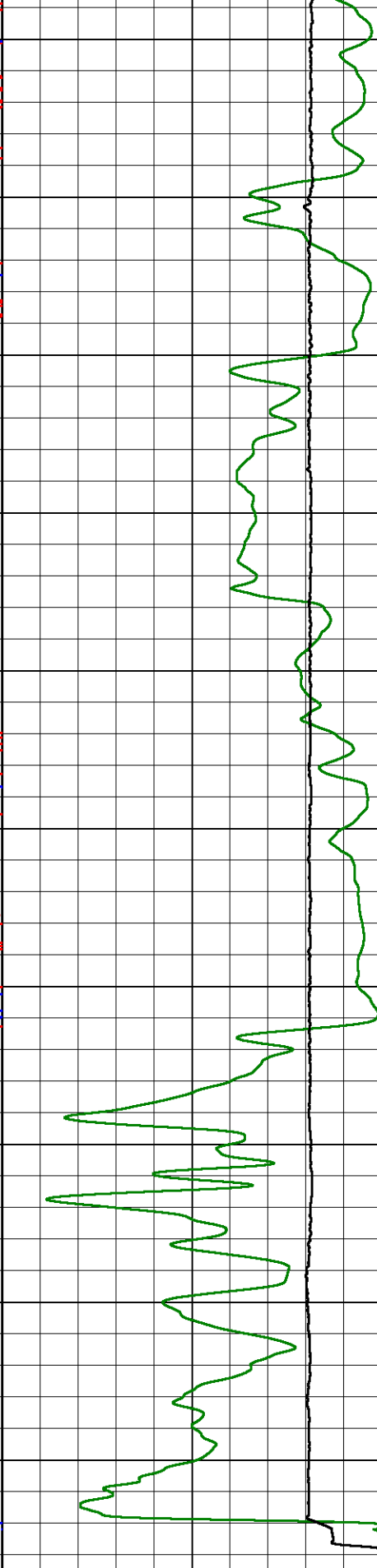
1000 CONDUCTIVITY (mmho/m)

15000 Line Tension (lb)

0 RLL3 (Ohm-m) 50

0 RILD (Ohm-m) 50

50 RLL2 (Ohm-m) 500



0

0

50

50

500

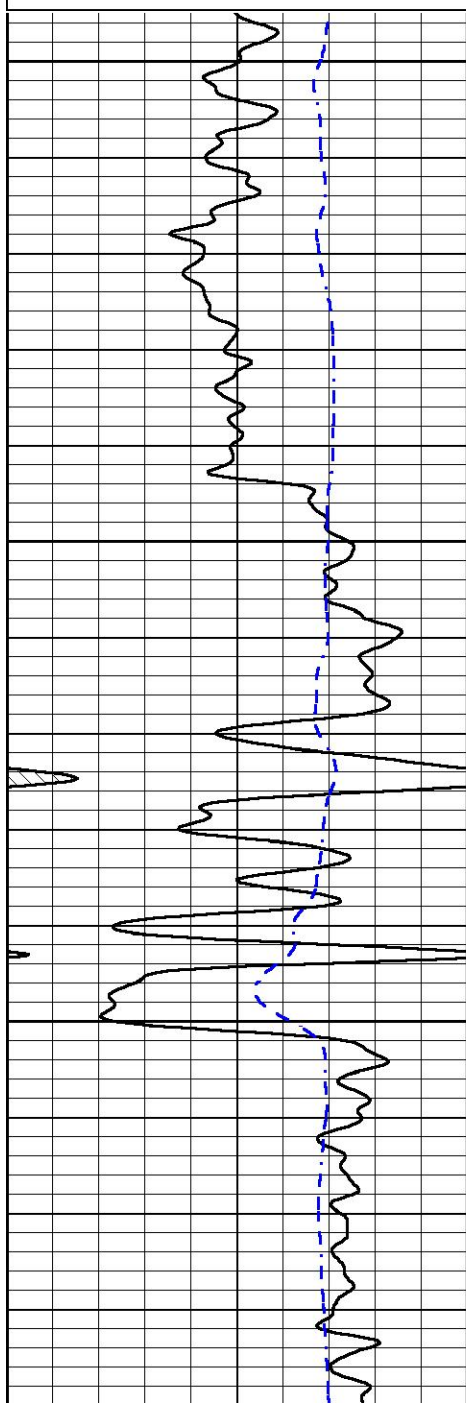


MAIN PASS

Database File briscoe_tammy 1.db
 Dataset Pathname STKML/pass3.1
 Presentation Format _dil
 Dataset Creation Sun Jun 28 10:20:58 2020
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

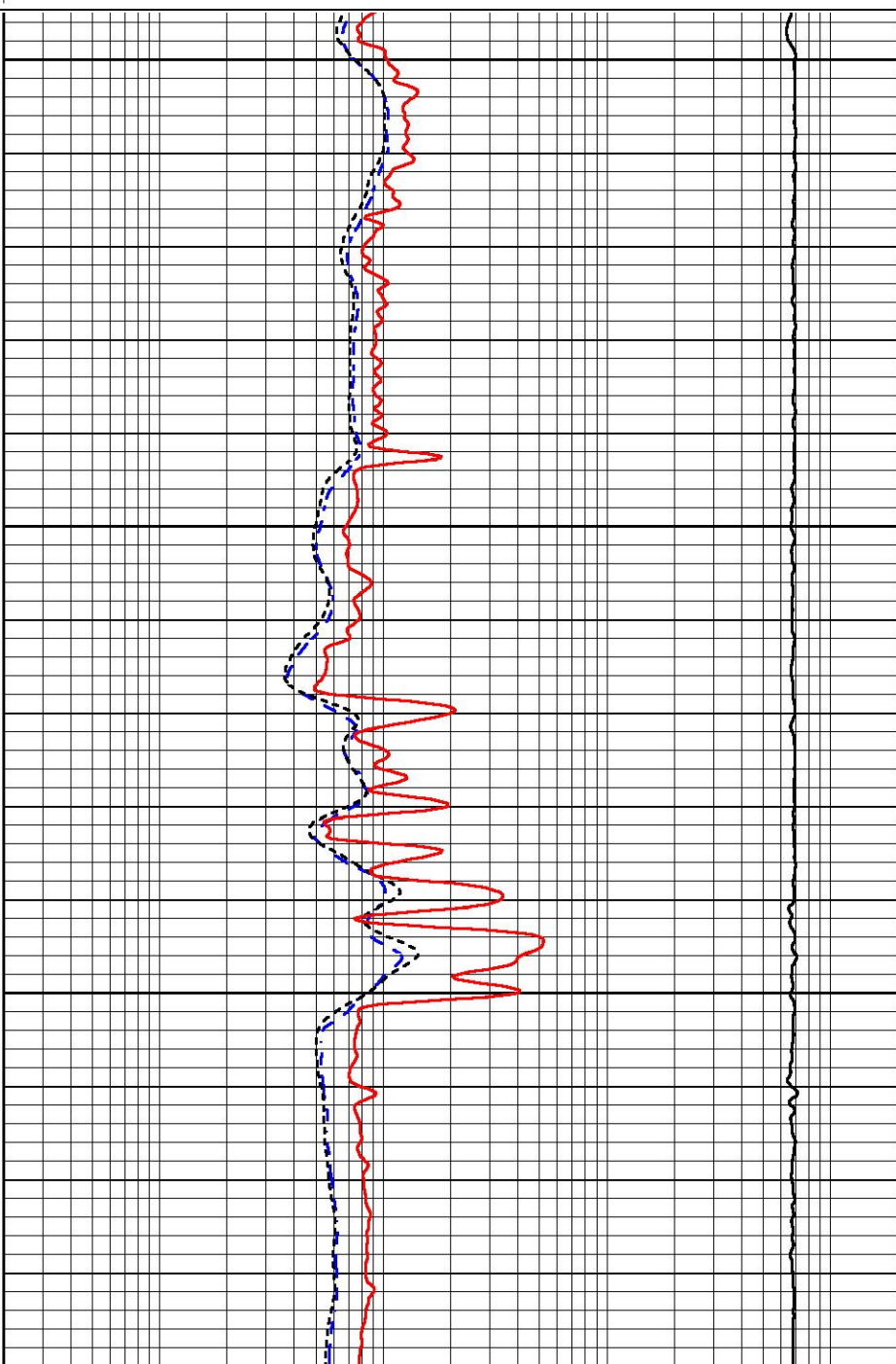
0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	LINE TENSION (lb)	0

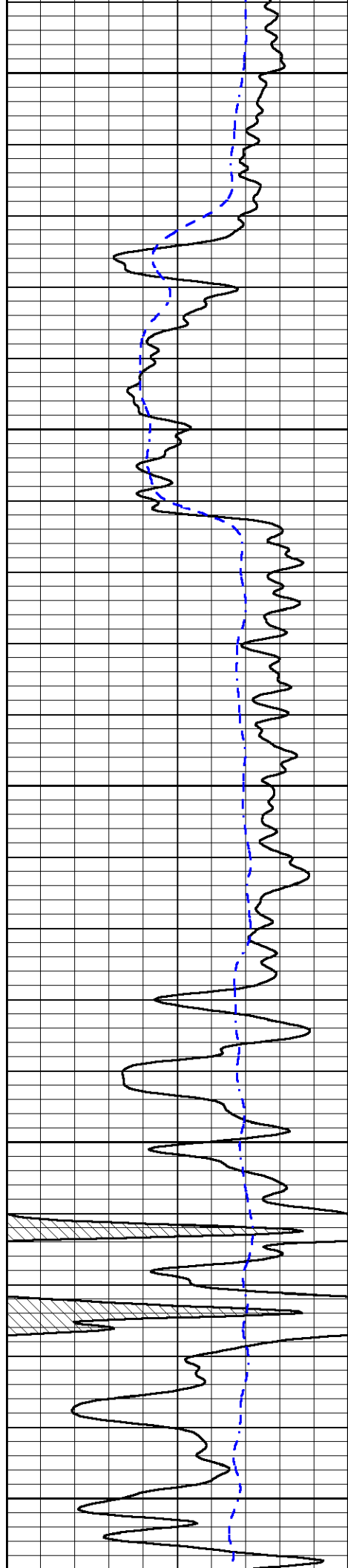


3500

3550

3600





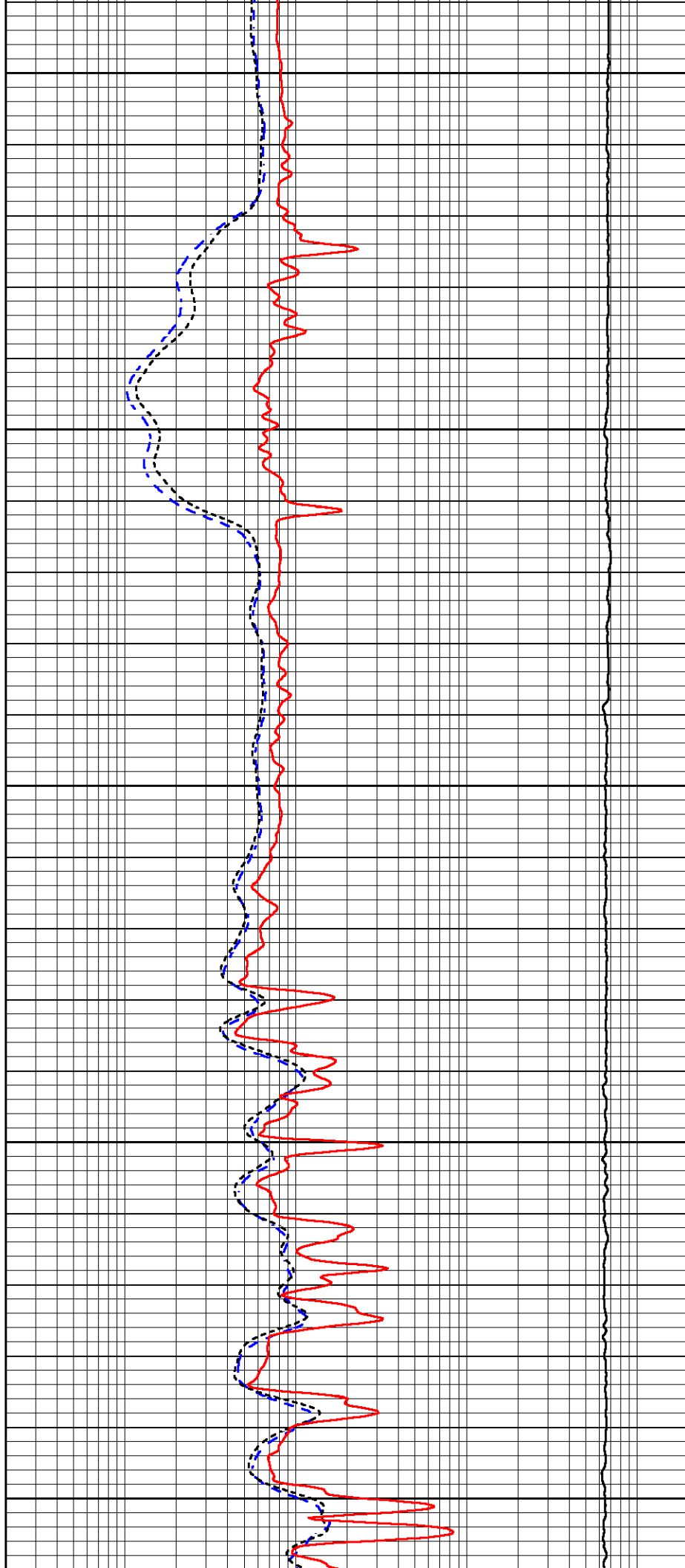
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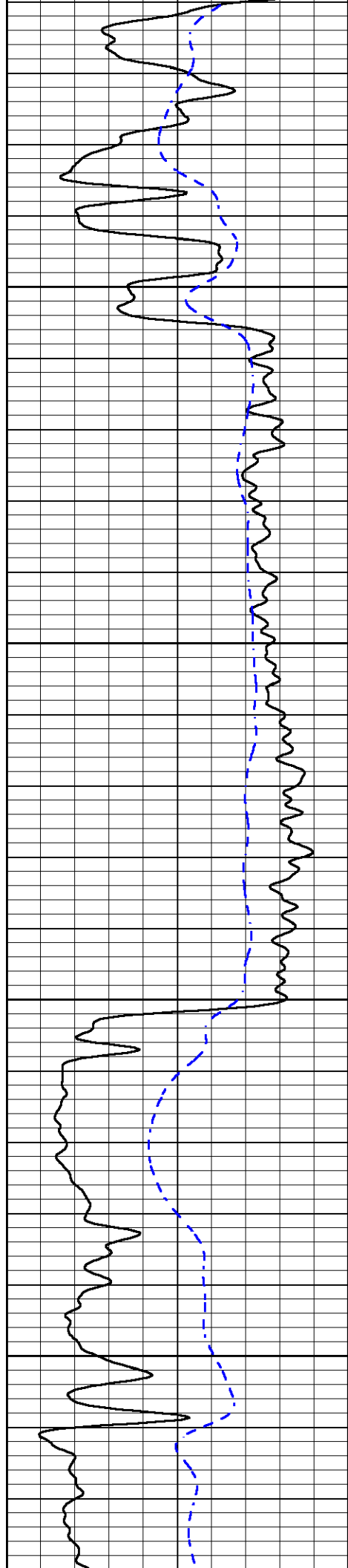
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3750

3800

3850



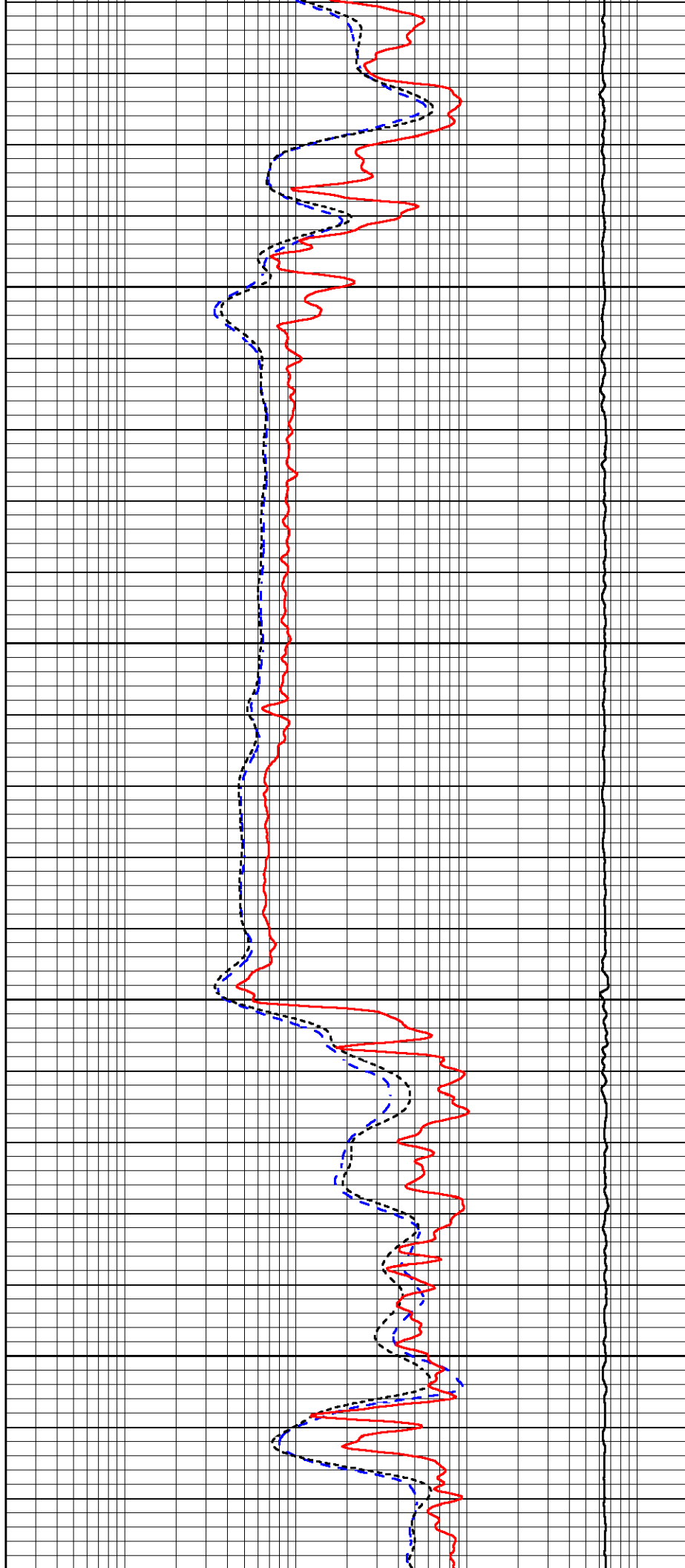


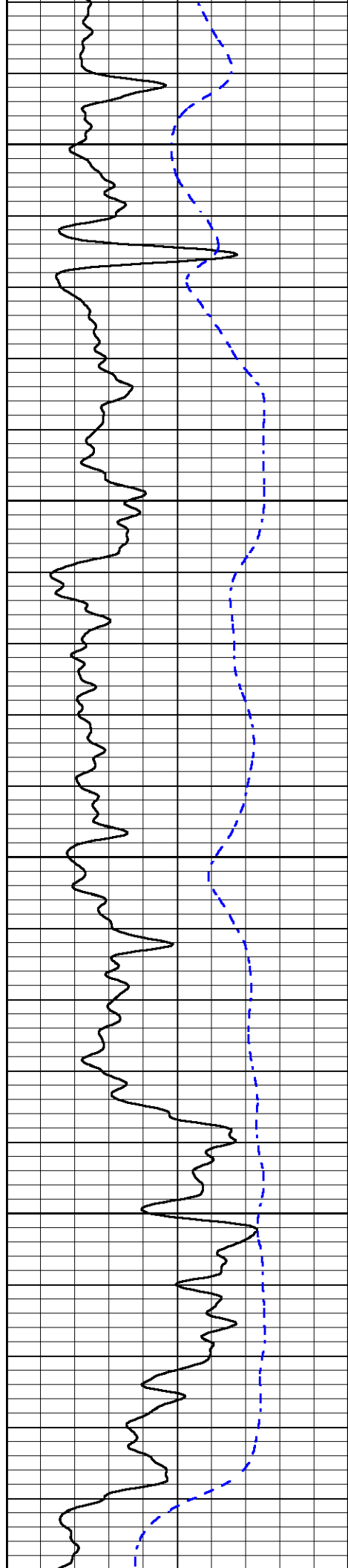
3900

3950

4000

4050





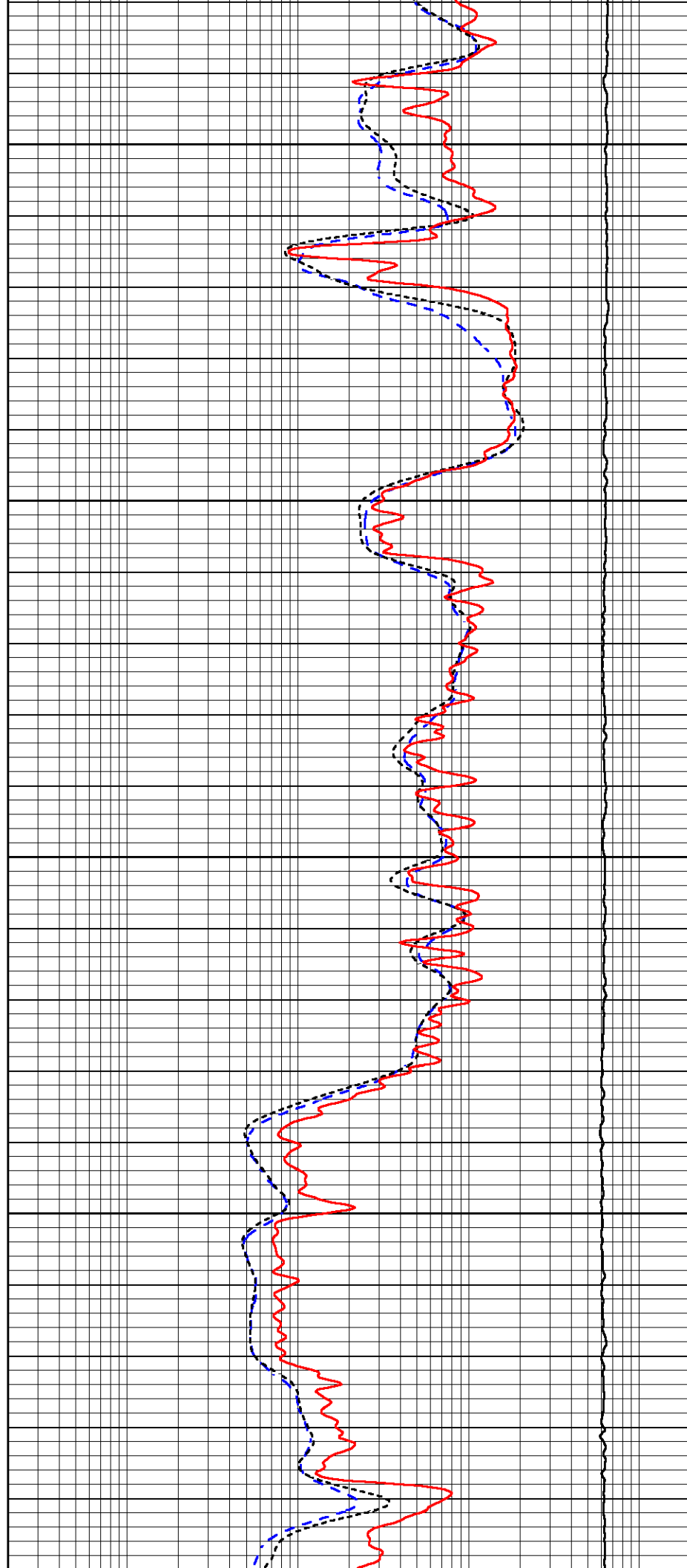
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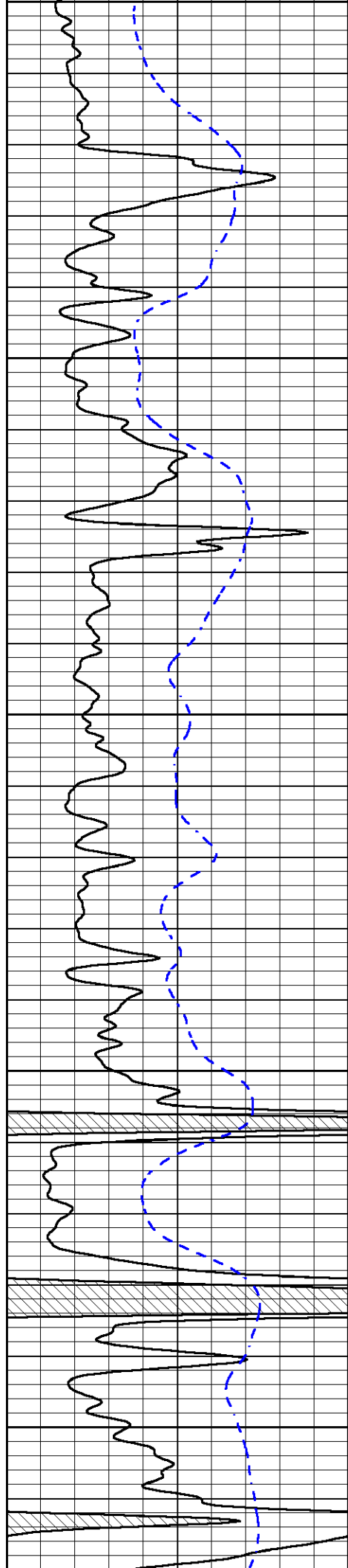
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4200

4250

4300





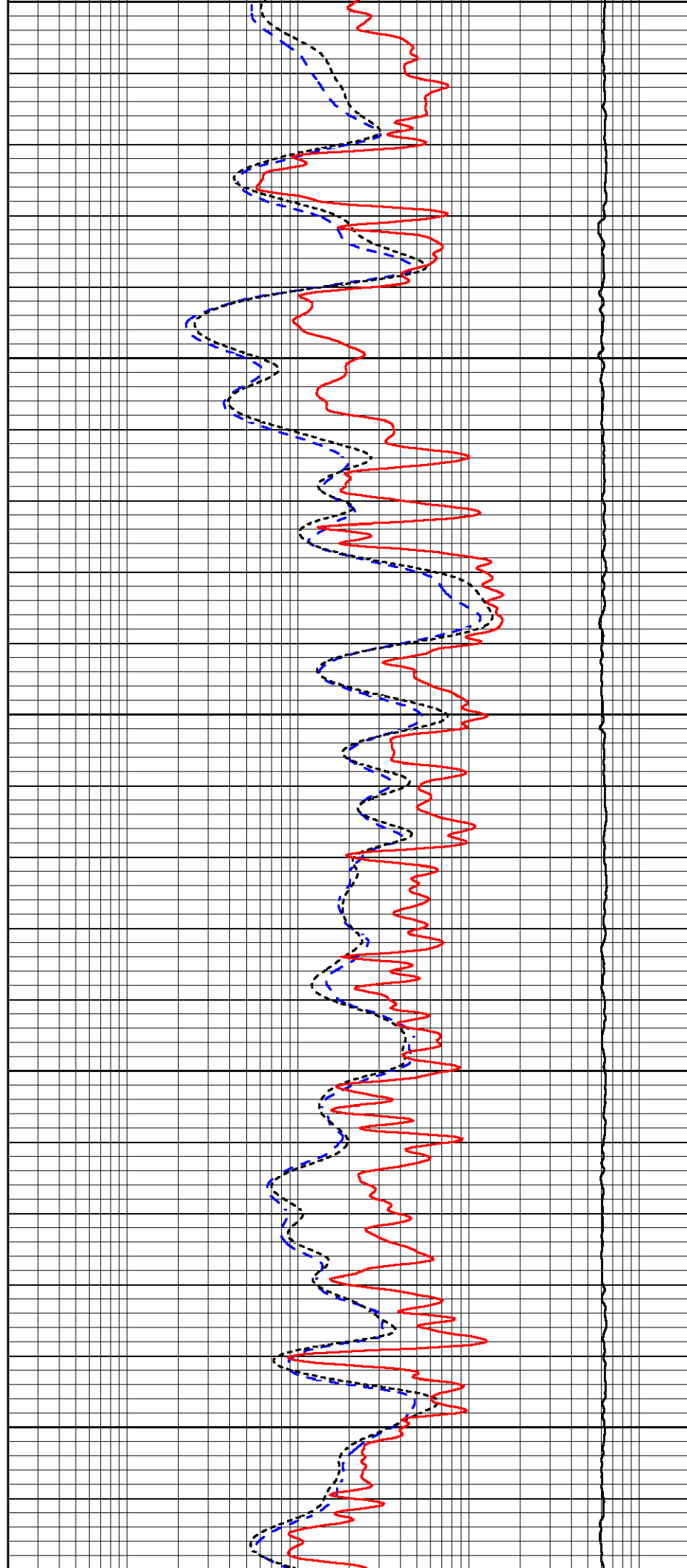
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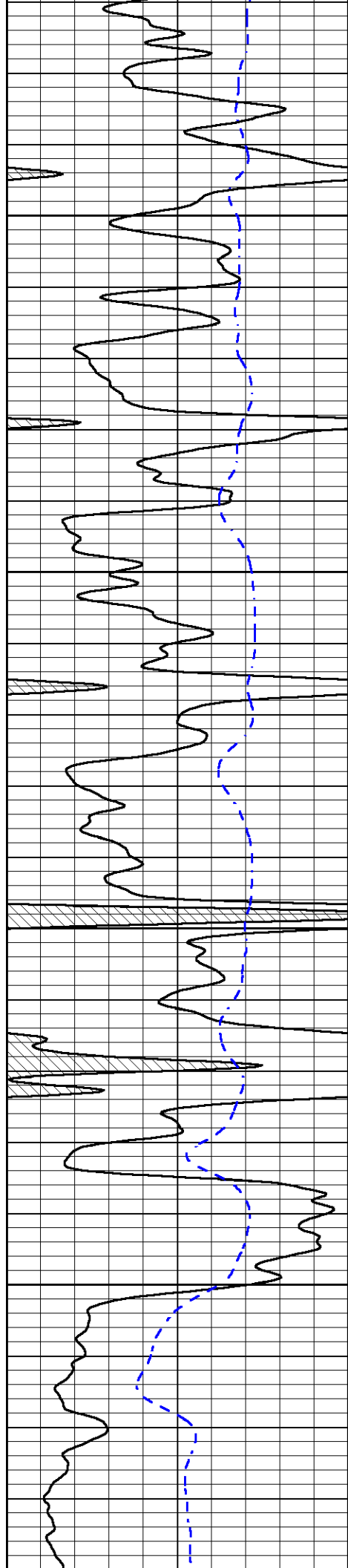
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4500



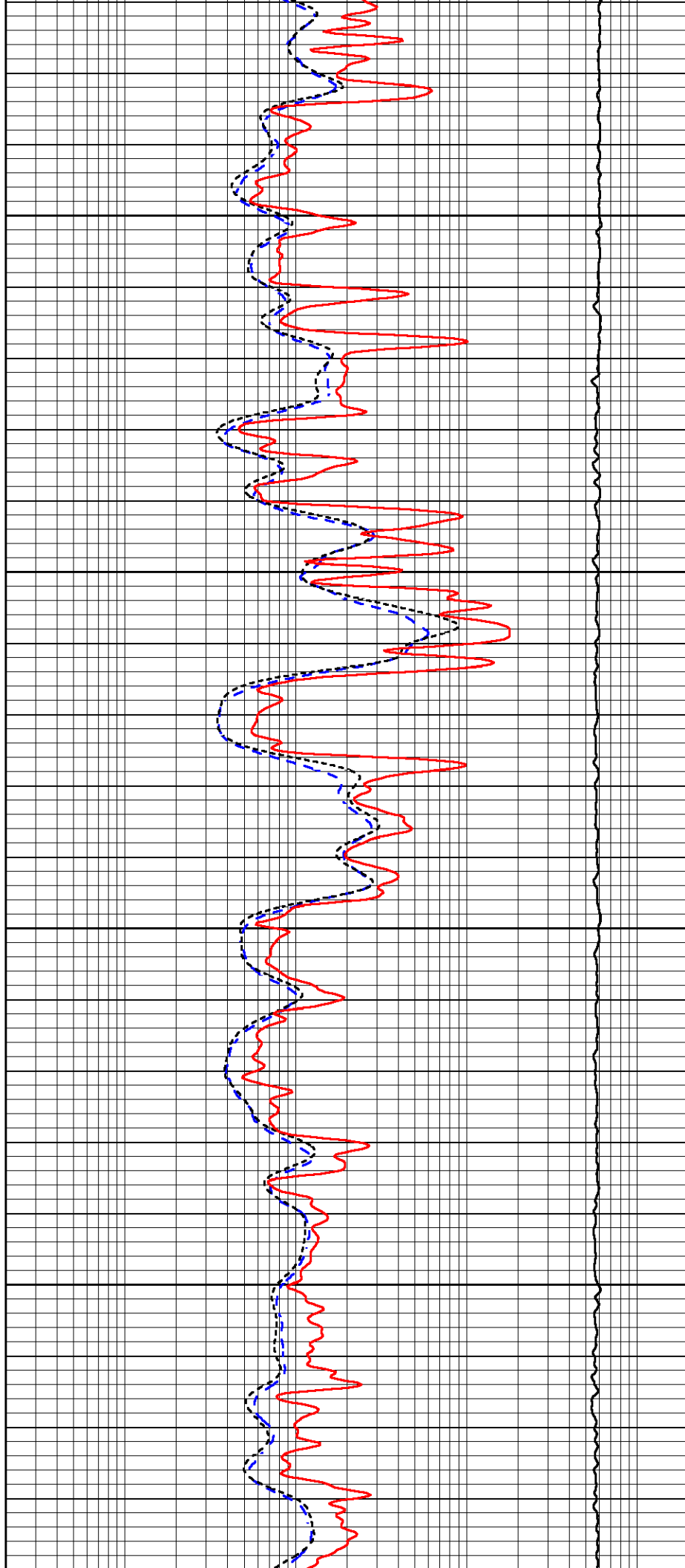


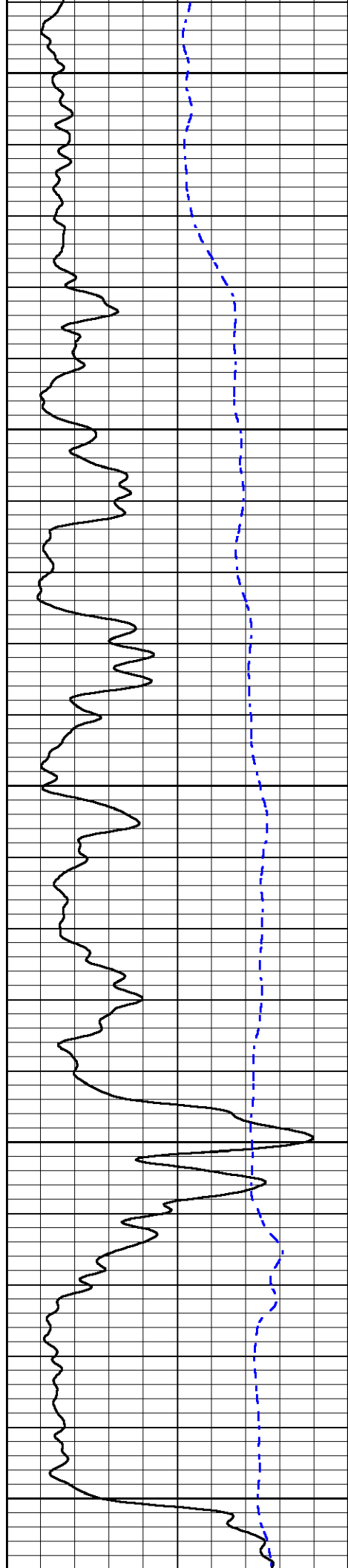
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4650

4700





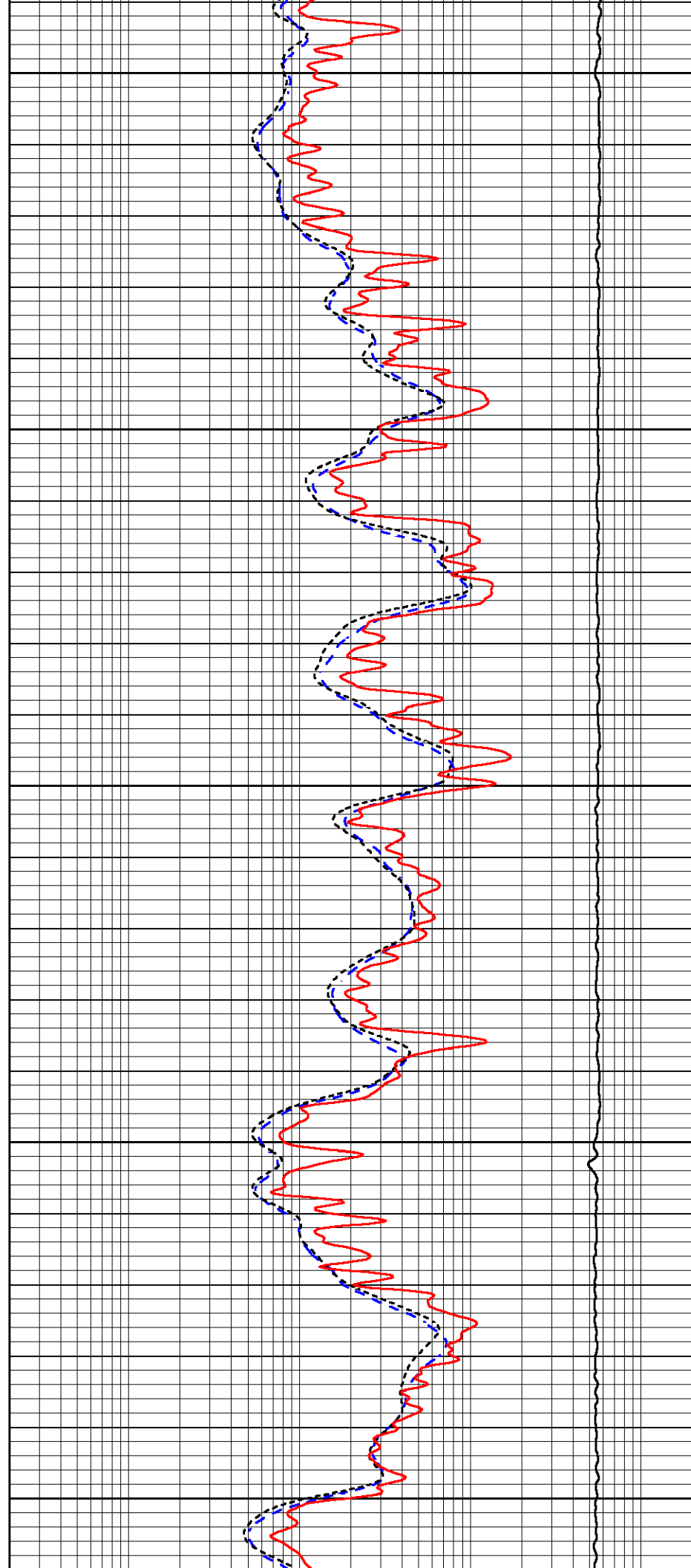
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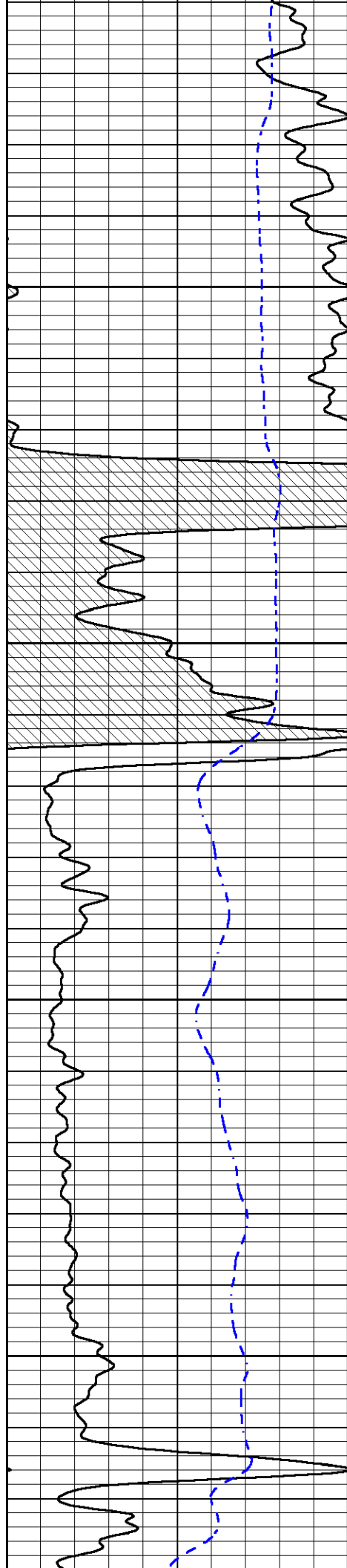
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4850

4900

4950



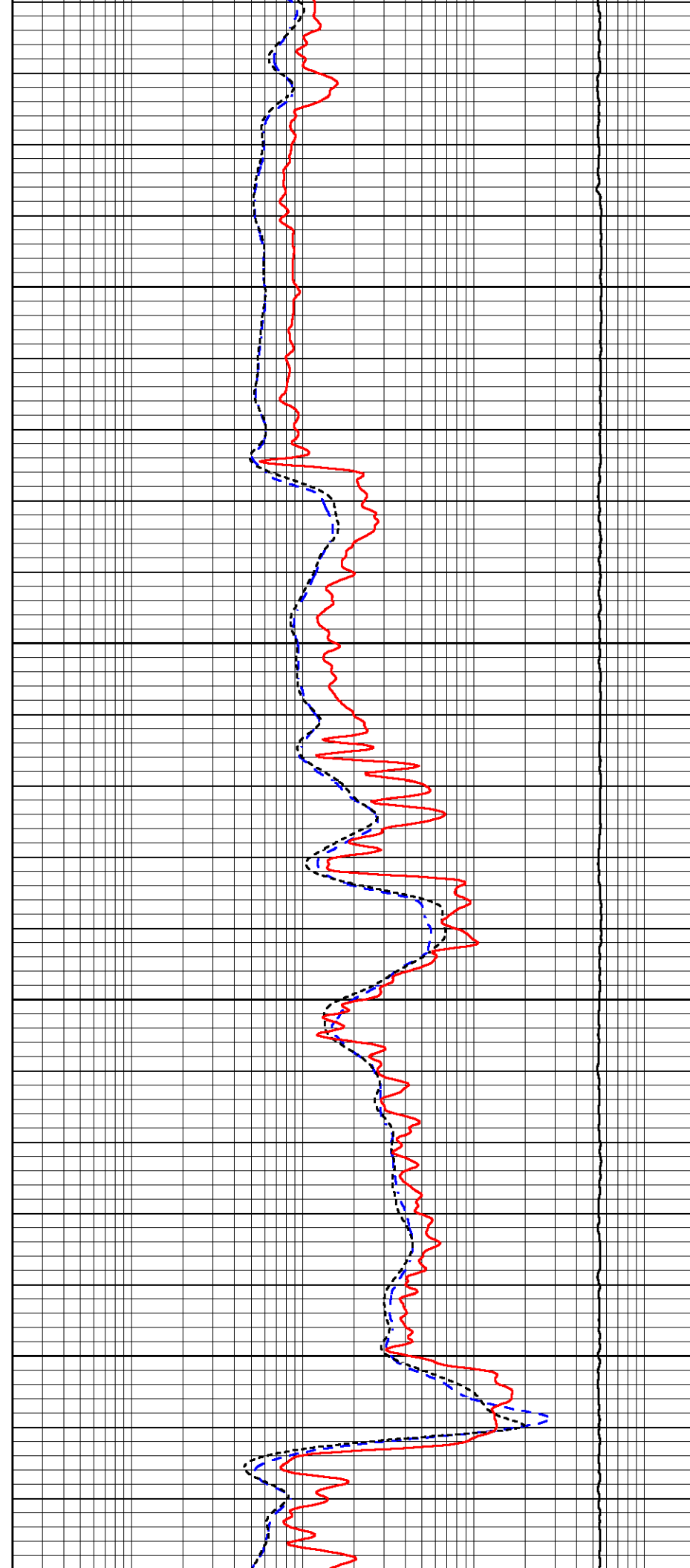


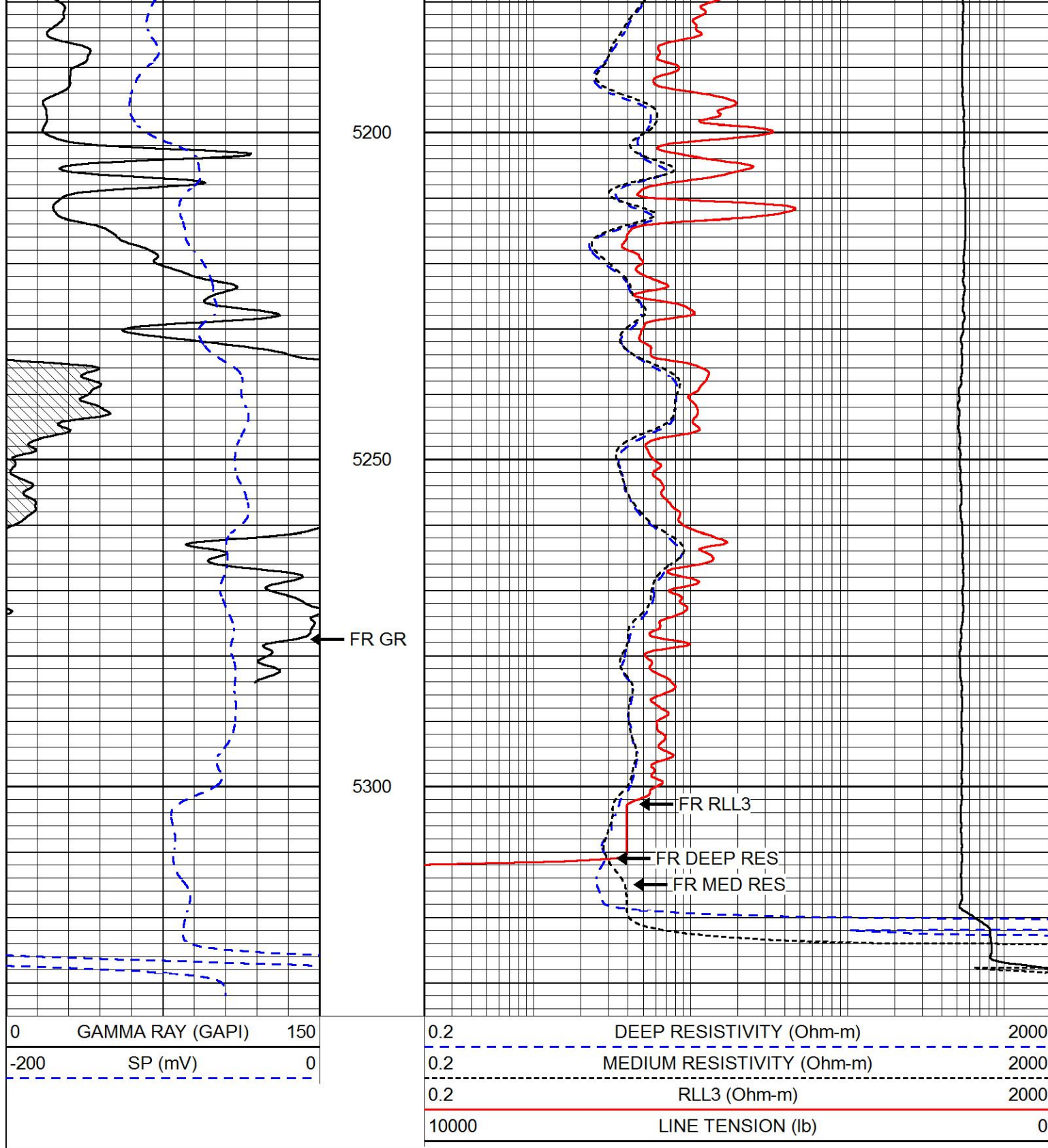
5000

5050

5100

5150

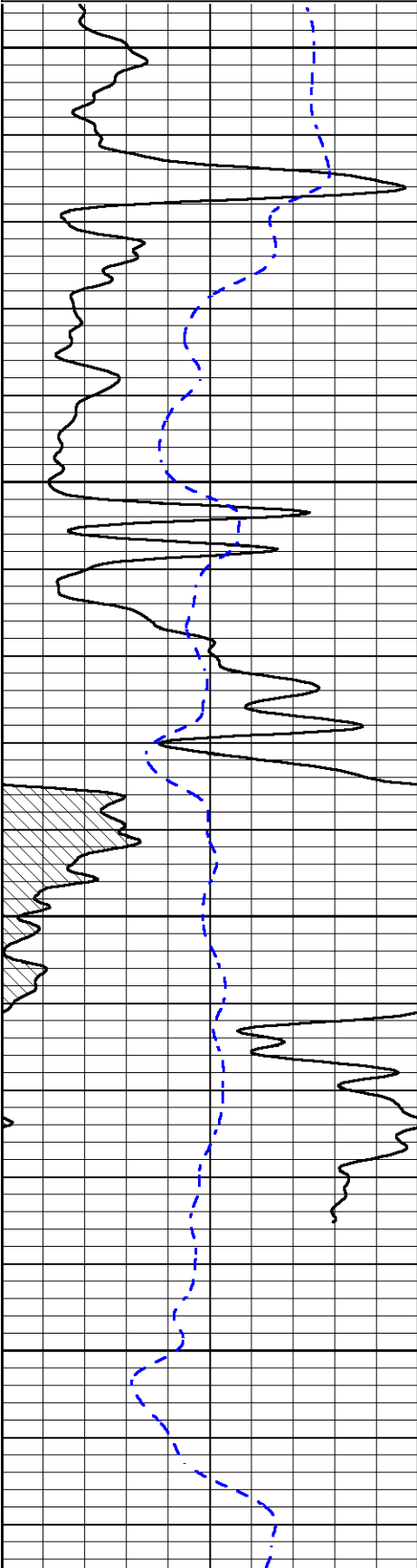




REPEAT SECTION

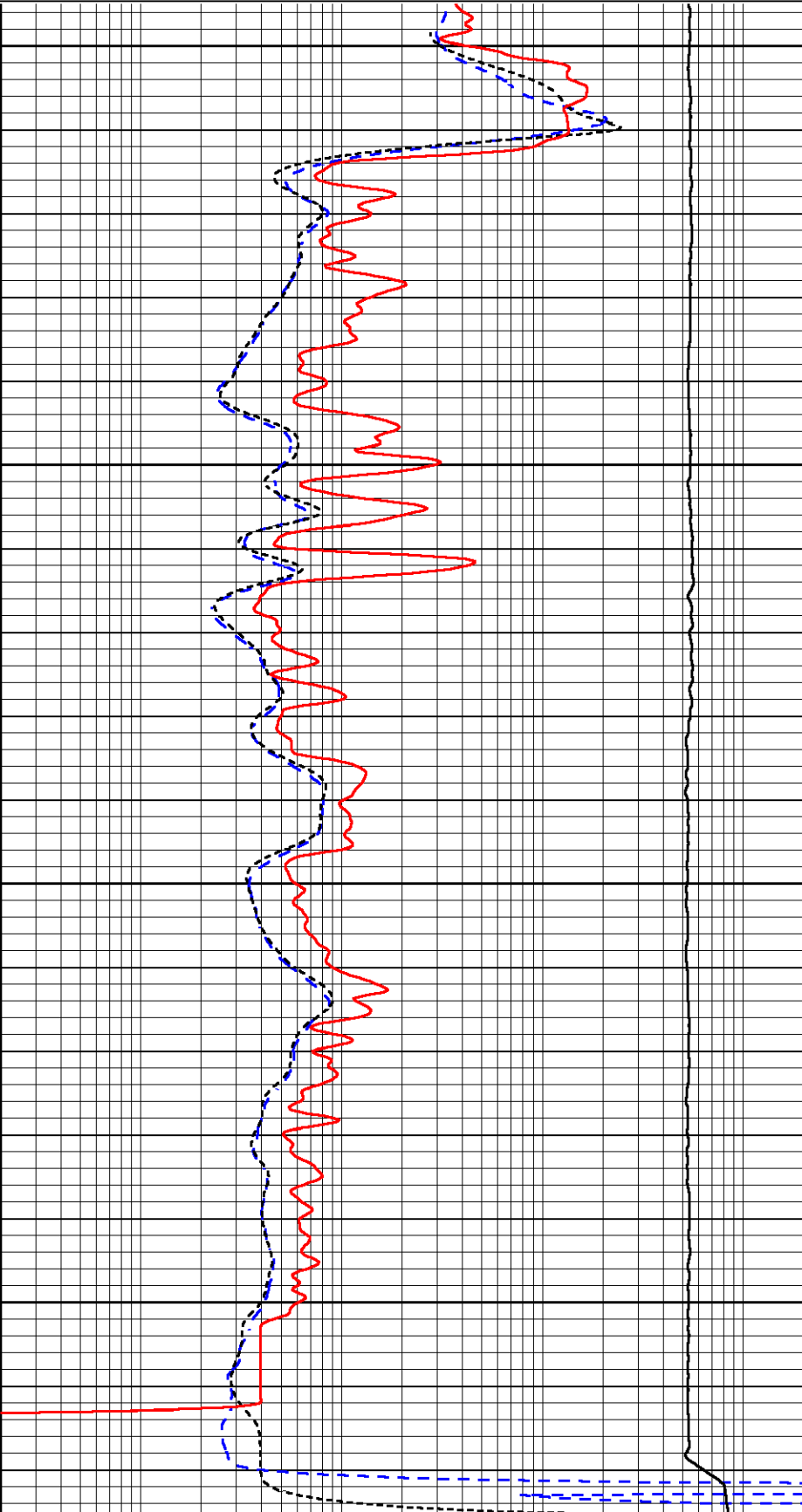
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 Presentation Format _dil
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 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0



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	RLL3 (Ohm-m)	2000
10000	LINE TENSION (lb)	0



0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

10000	LINE TENSION (lb)	0
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Calibration Report

Database File briscoe_tammy 1.db
Dataset Pathname STKML/pass3.4
Dataset Creation Sun Jun 28 09:44:39 2020

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
Calibration Performed: Sun Jun 28 08:39:24 2020

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-27.500
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-25.500

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
Performed: Tue Jun 16 01:32:04 2020

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5500

Compensated Density Calibration Report

Serial-Model: 817-947-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Tue Sep 24 21:18:50 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.680	g/cc	1141.85	3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.532		
	Size		Reading		
Small Ring	4.50	in	1.02		
Large Ring	14.50	in	1.23		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED FEB 13 10:30:30 2019

Detector	Readings	Target	Normalization
Shallow	2240.00	1000.00	1.0000

Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	233-M&W		
Tool Model:	M&W		
Calibration Performed:	Fri Feb 07 01:42:40 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.5500	GAPI/cps	



Company	BRISCOE PETROLEUM, LLC
Well	TAMMY #1
Field	GROENDYKE
County	BARBER
State	KANSAS