



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Knighton Oil Company, Inc.
 Well Kipp C #1-26
 Field Kipp
 County Stafford
 State Kansas

Location: API #: 15-185-24152-00-00
 SE SW NW SW
 1325 FSL & 637 FWL
 SEC 26 TWP 25S RGE 14W
 Permanent Datum Ground Level Elevation 1980
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 CNL/CDL
 MEL/BHCS
 Elevation
 K.B. 1991
 D.F.
 G.L. 1980

Date	4/24/2024
Run Number	One
Depth Driller	4381
Depth Logger	4381
Bottom Logged Interval	4380
Top Log Interval	400
Casing Driller	8,625 @ 432
Casing Logger	425
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	4500
Density / Viscosity	9.3 58
pH / Fluid Loss	9.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.85 @ 72
Rmt @ Meas. Temp	0.64 @ 72
Rmc @ Meas. Temp	1.15 @ 72
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.51 @ 120
Operating Rig Time	5 Hours
Max Rec. Temp. F	120
Equipment Number	P-108
Location	HAYS
Recorded By	T. Martin
Witnessed By	Sean Deenihan

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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.

St John, KS, S to SW 70th,
 5 W, 3/4 S, E into

Log Measured From: Kelly Bushing 11 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: T. Martin
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Sean Deenihan
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.75		GR-M&W (102)	3.00	3.50	50.00
CNLSC CNSSC	37.65 36.90		CNT-M&W (207)	5.00	3.50	100.00
			MWLith-STEP LITHO (704-10) Long Litho Mandrel	8.92	5.00	250.00
LCAL	28.21					
LLW8N	28.21					
LLW7N	28.21					
LLW6N	28.21					
LLW5N	28.21					
LLW4N	28.21					
LLW3N	28.21					
LLW2N	28.21		ML-PSIML (401)	7.58	4.00	65.00
LLW1N	28.21					
LSLOCK	27.96					
LLLOCK	27.96					
PELTMPR	27.96					
LSHVNG	27.96					
LLHVNG	27.96					
LSW8N	27.71					
LSW7N	27.71					
LSW6N	27.71					
LSW5N	27.71					
LSW4N	27.71					
LSW3N	27.71					
LSW2N	27.71					
LSW1N	27.71					
MCAL	19.58	DIL-M&W (507)	18.25	3.50	220.00	
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: knighton_kipp c #1-26.db: field/well/StkMI/pass3.1
 Total length: 42.75 ft
 Total weight: 685.00 lb
 O.D.: 5.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\knighton_kipp c #1-26.db
 Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 120	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 2.5	SNDERRM mmho/m -3.5	SPSHIFT mV 300	SRFTEMP degF 70	SZCOR Off	TDEPTH ft 4381		

Variable Description

BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 FLUIDDEN : Fluid Density
 MATRXDEN : Matrix Density
 NPORSEL : Neutron Porosity Curve Select

PERFS : Perforation Flag
 SNDERR : Deep Sonde Error Correction
 SNDERRM : Medium Sonde Error Correction
 SPSHIFT : S.P. Baseline Offset
 SRFTEMP : Surface Temperature
 SZCOR : CN Size Cor. ?
 TDEPTH : Total Depth

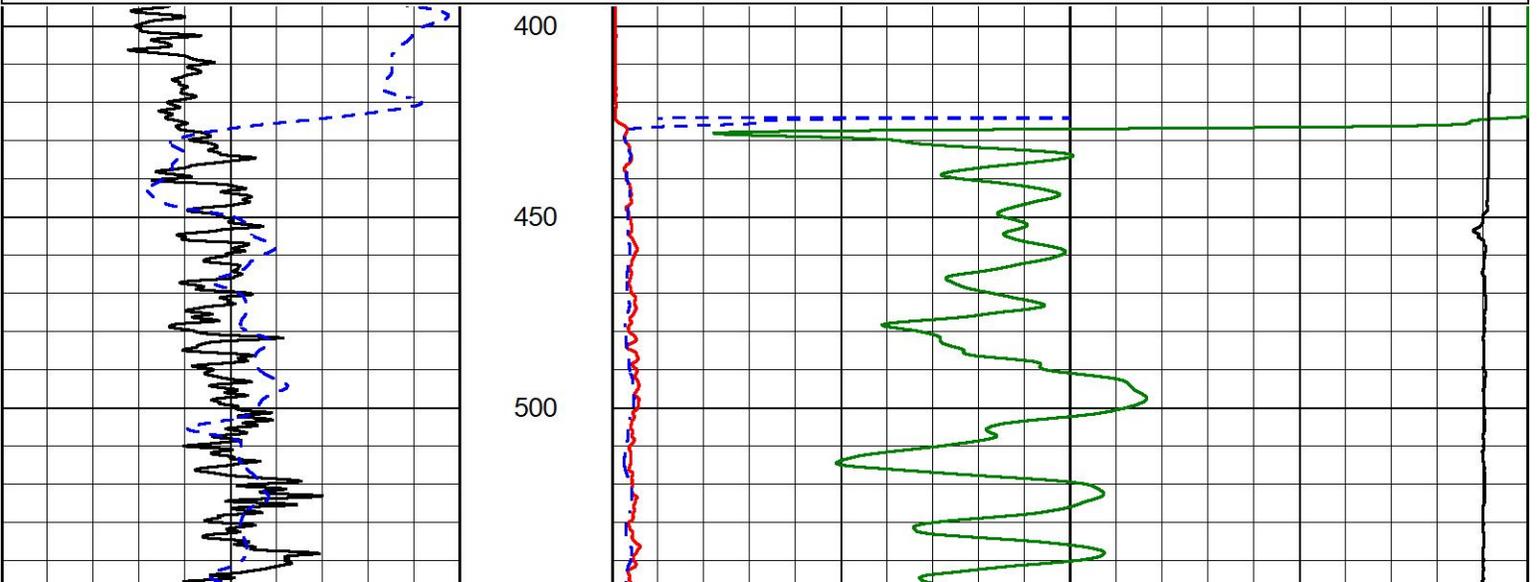


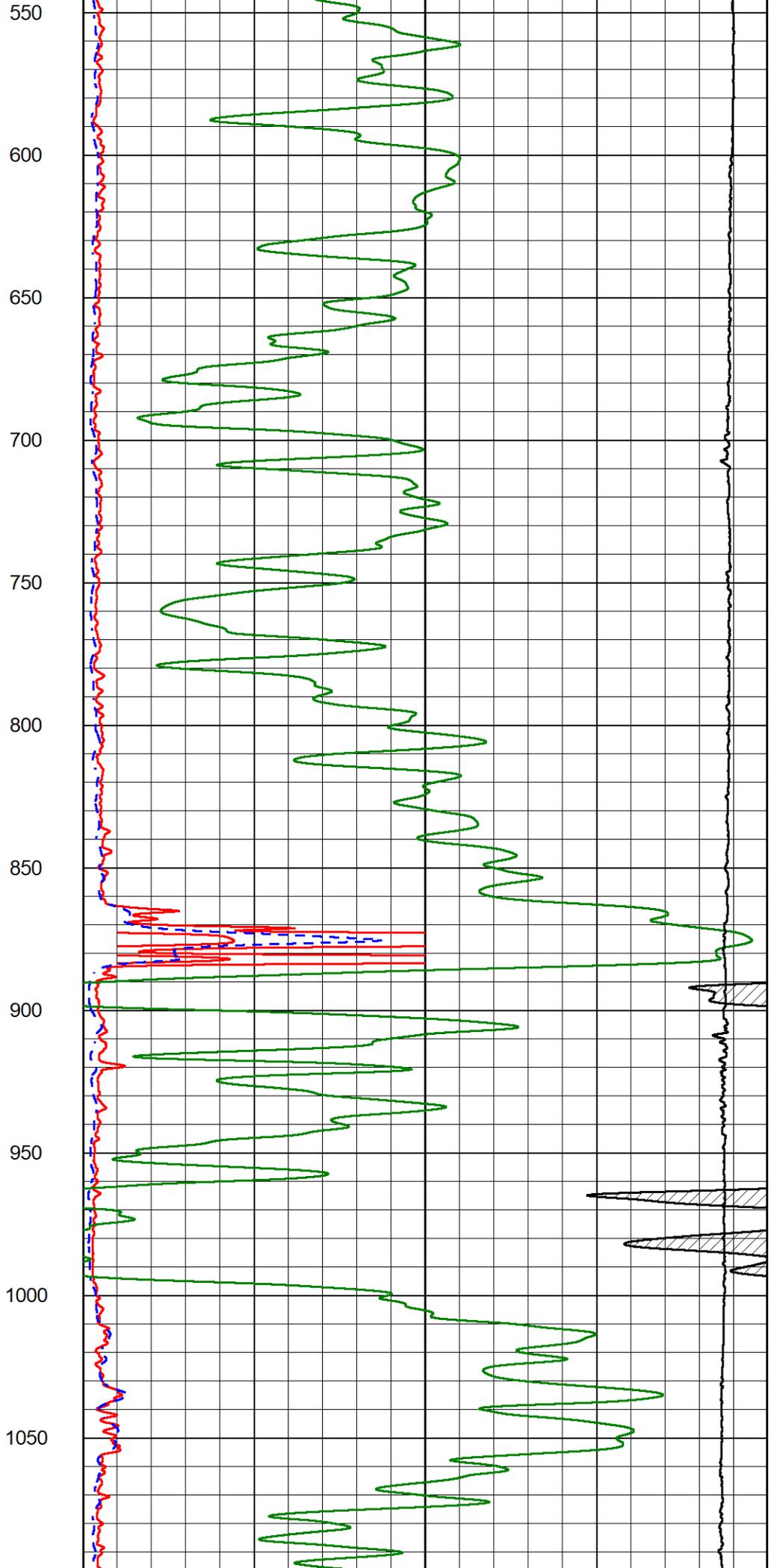
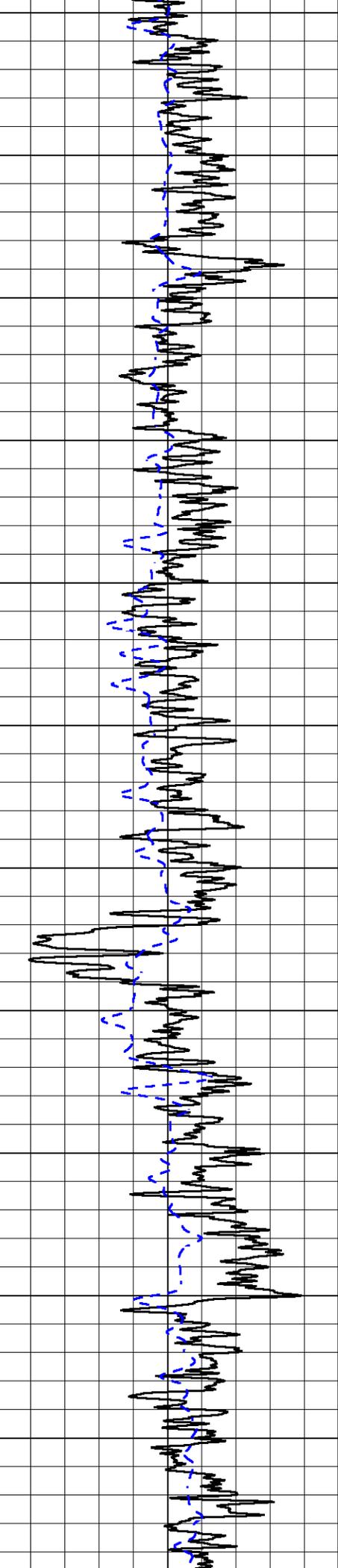
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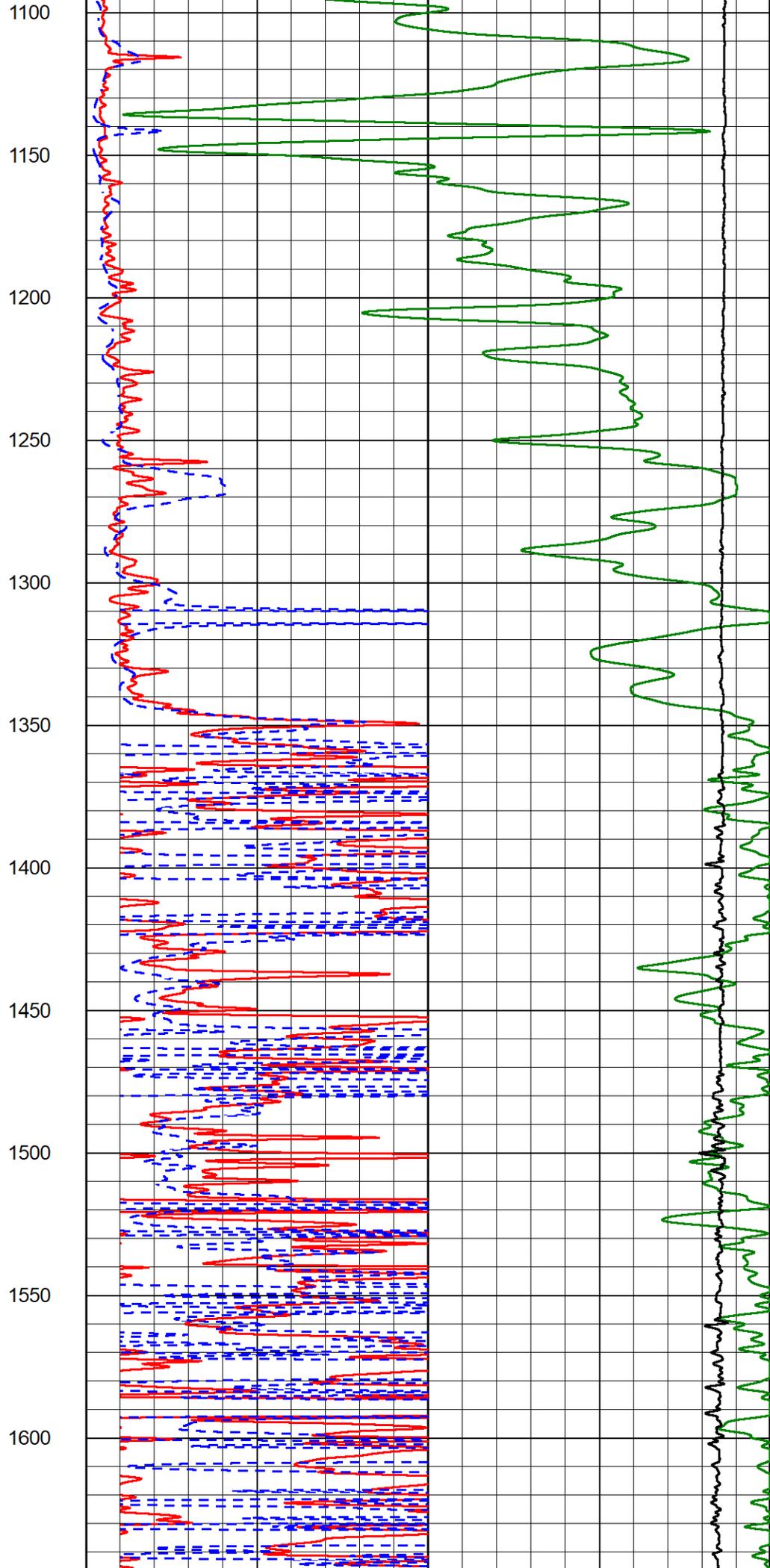
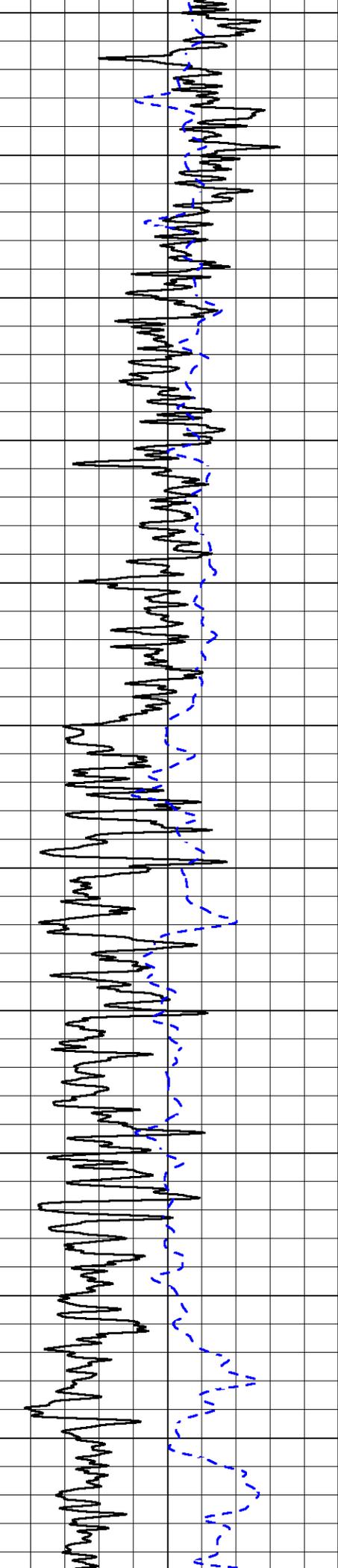
MAIN PASS

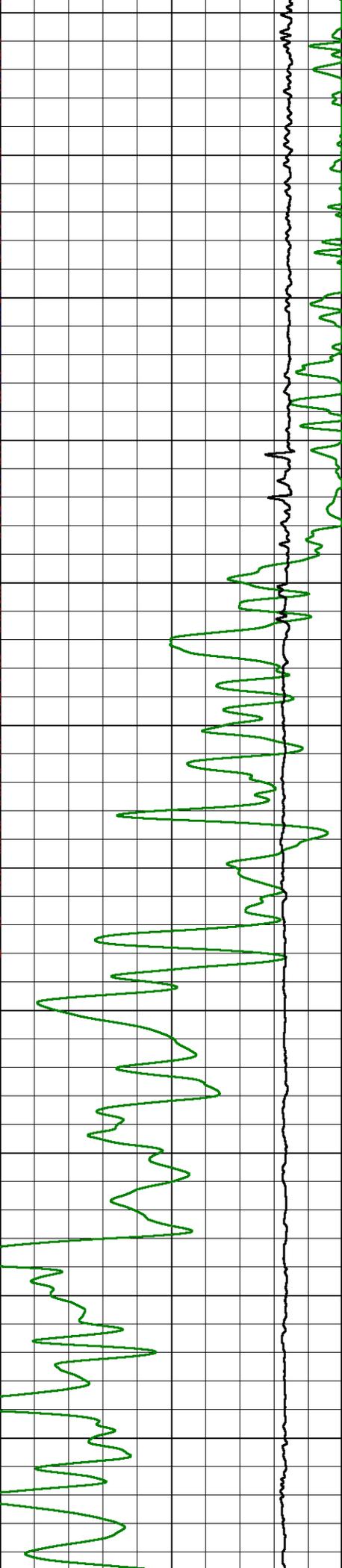
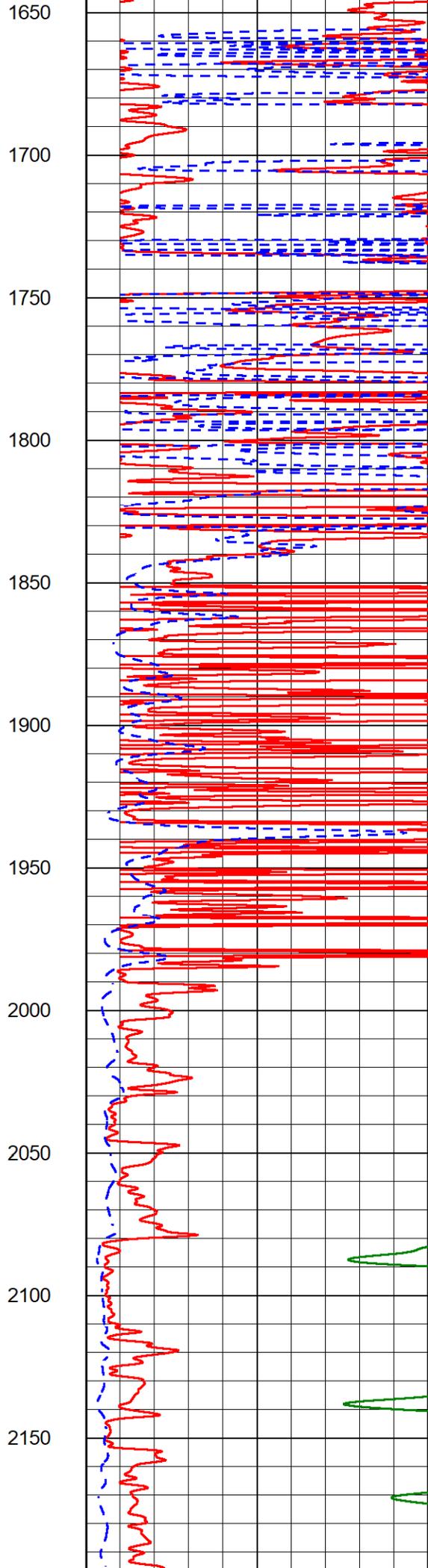
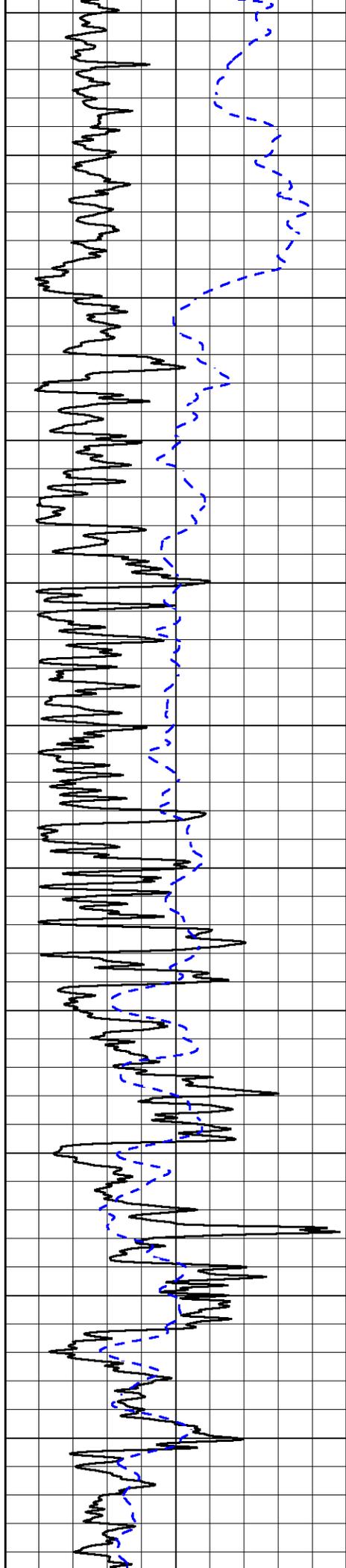
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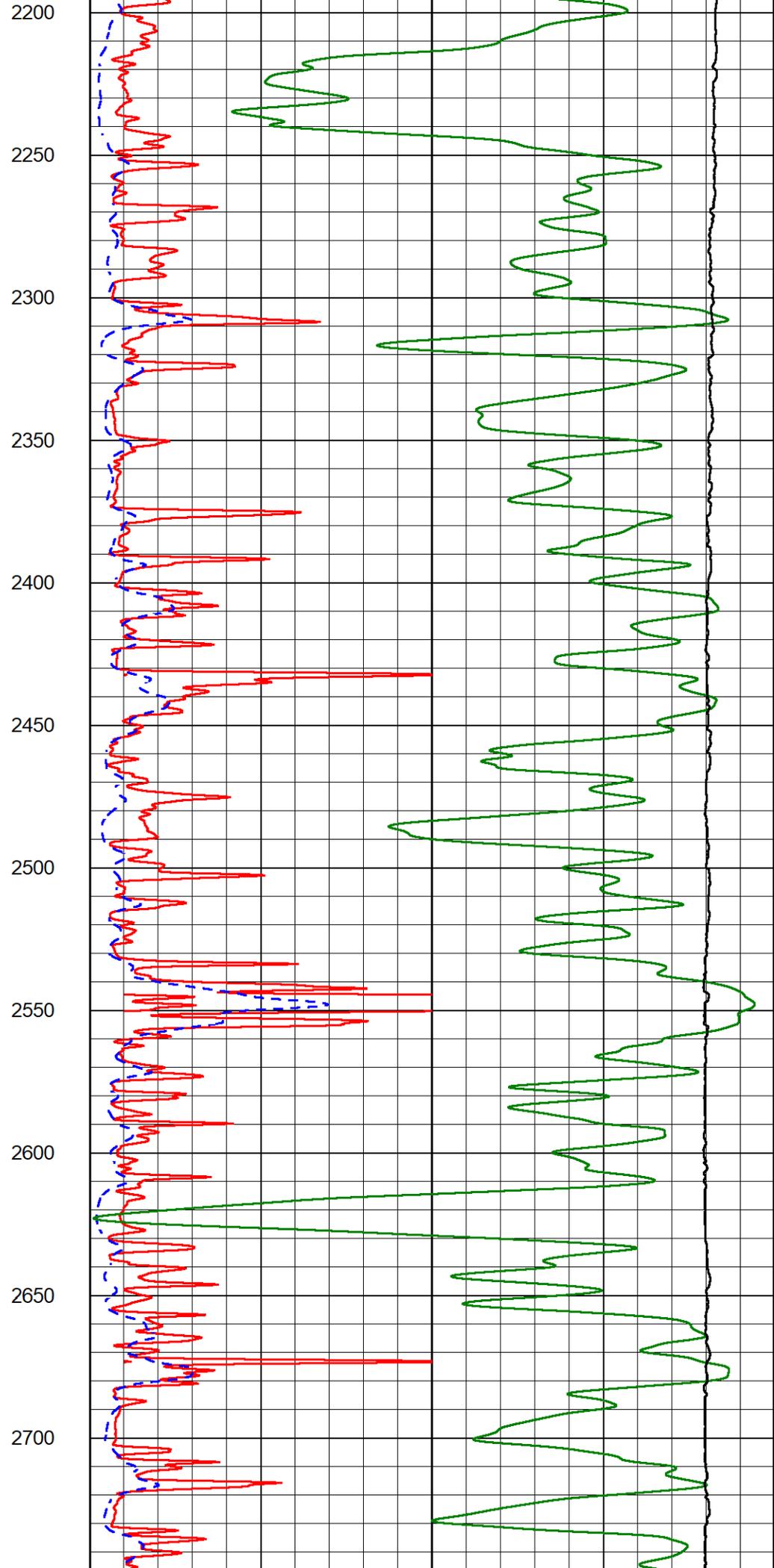
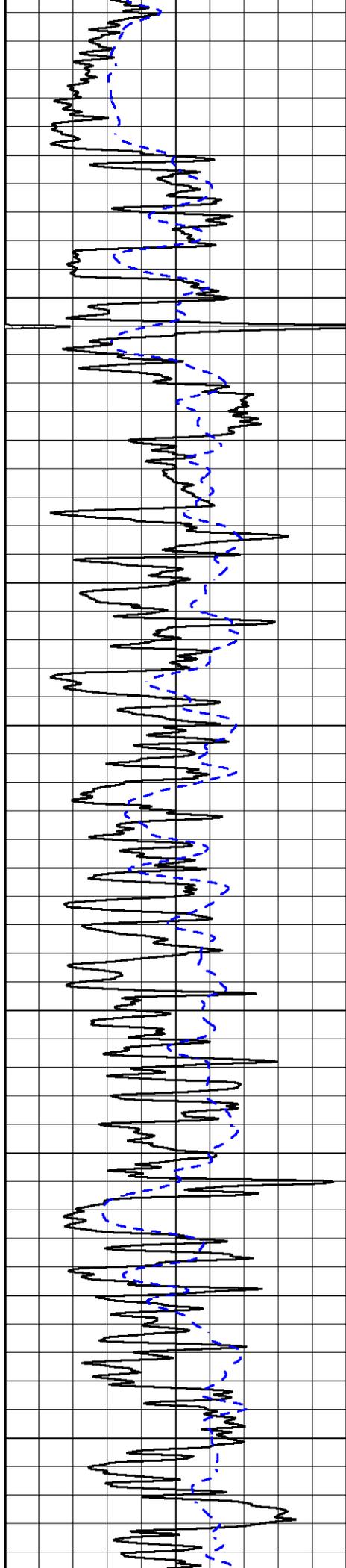
0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
				Shallow Resistivity	
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

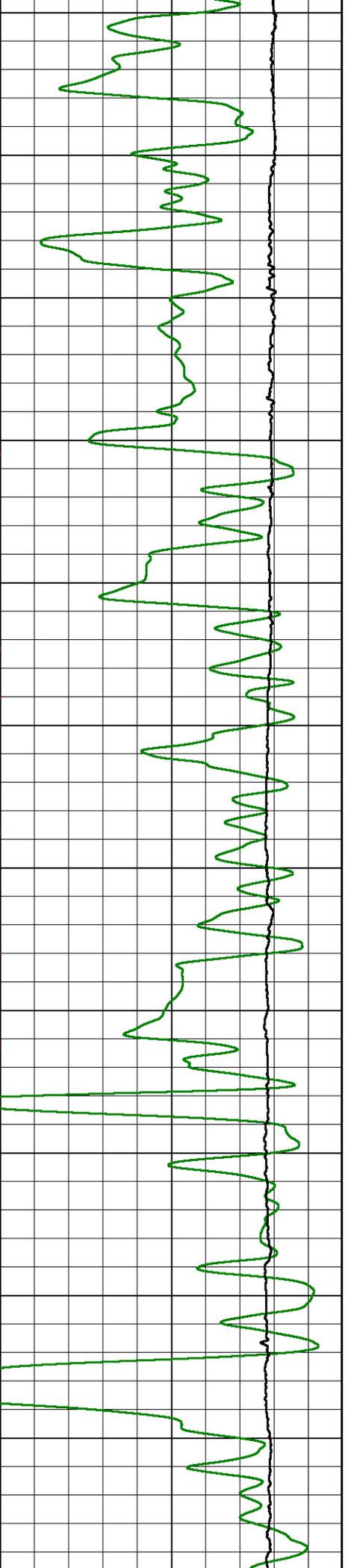
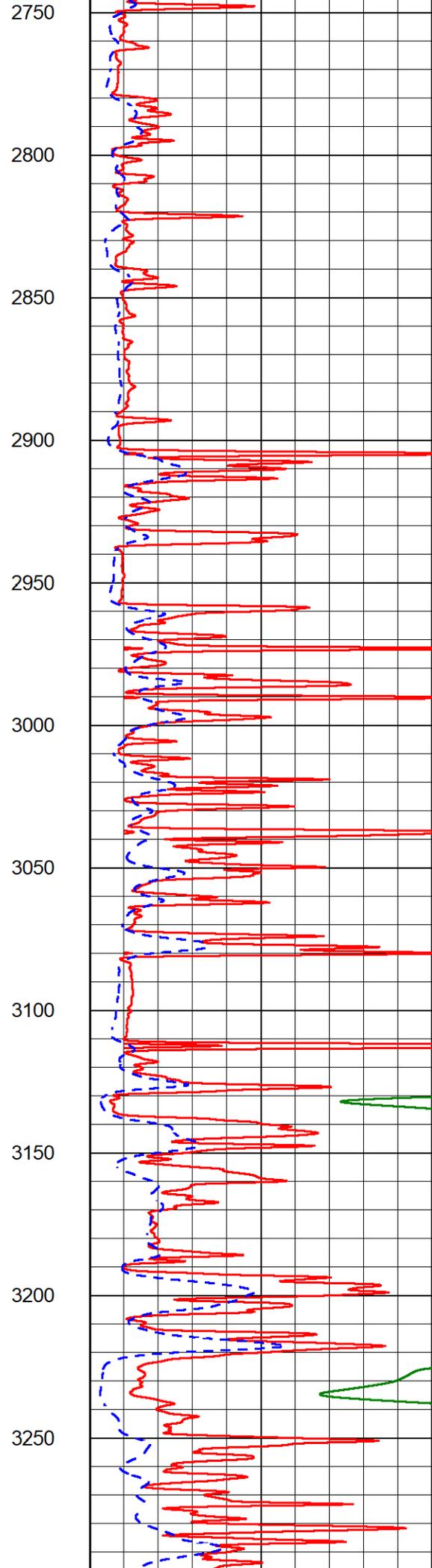
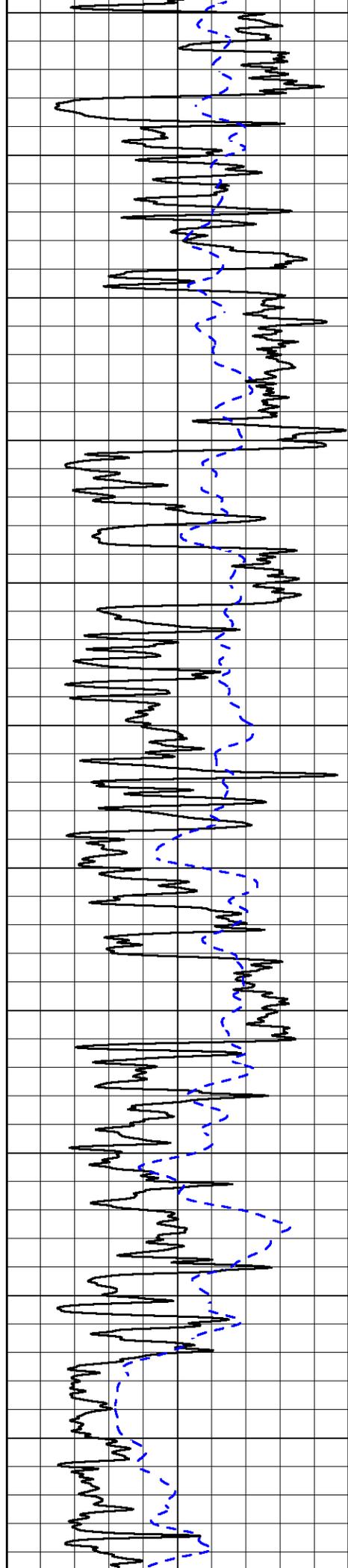


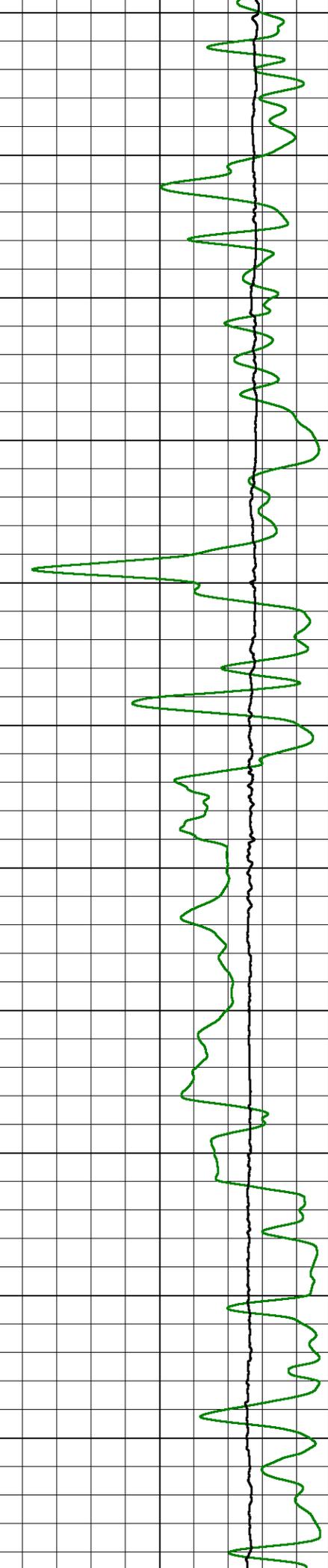
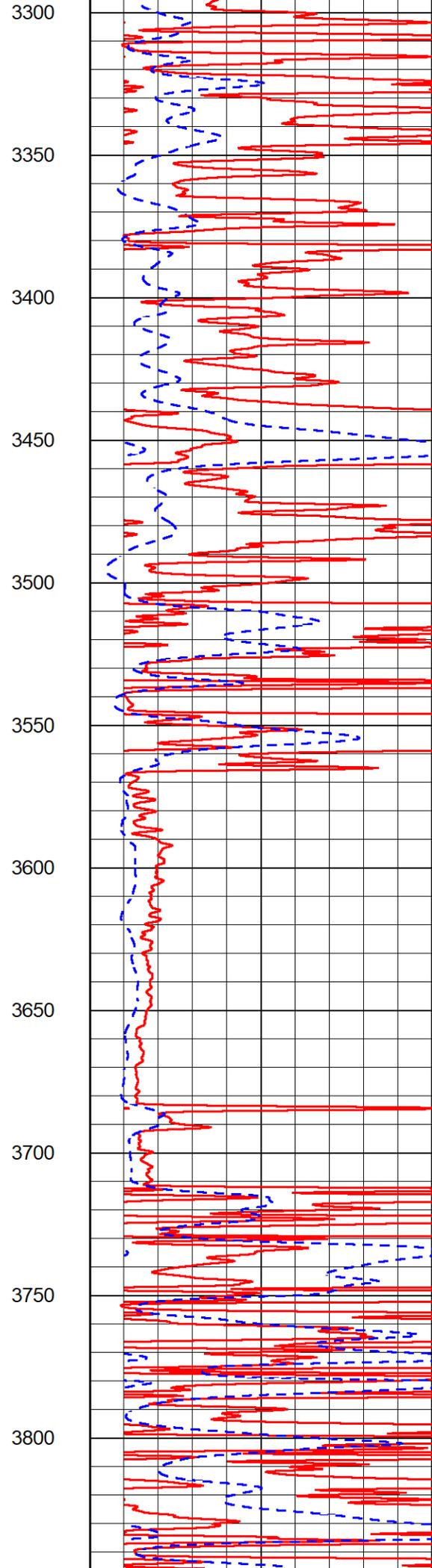
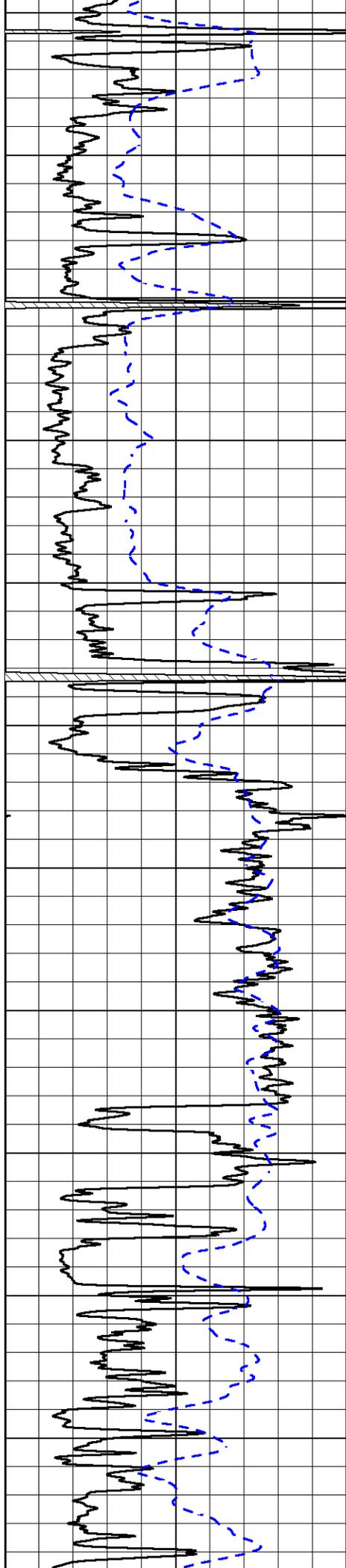


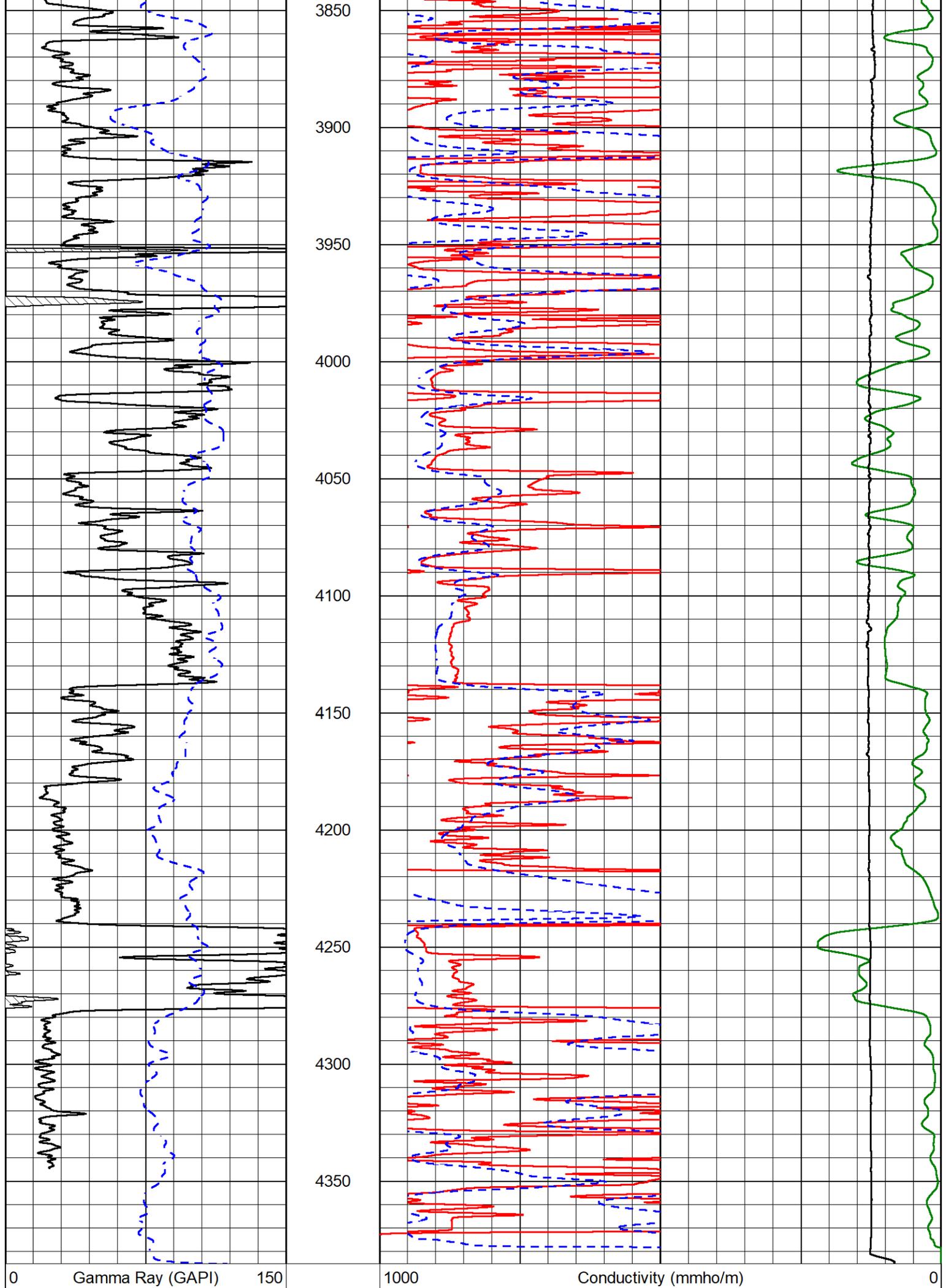












-200 SP (mV) 0

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



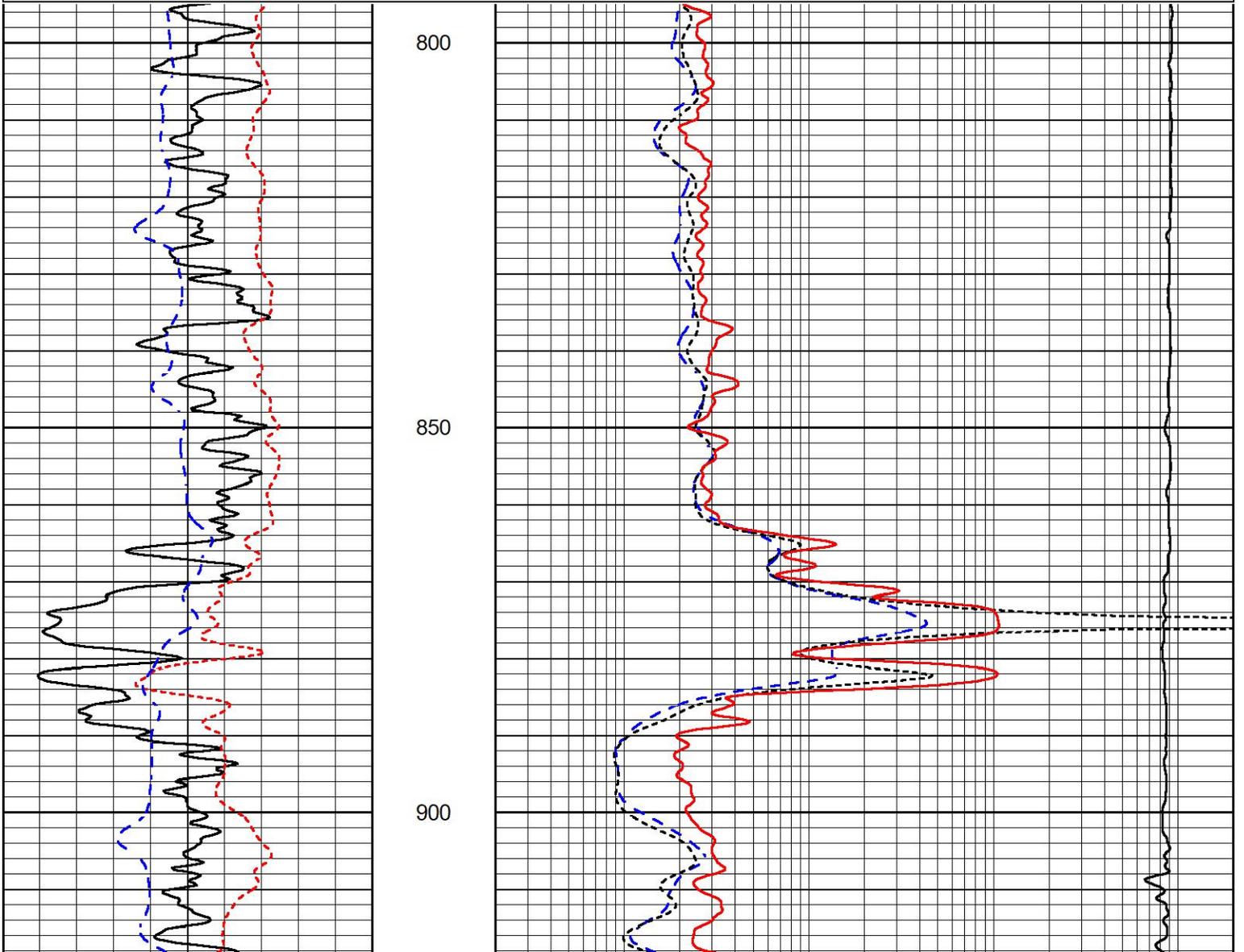
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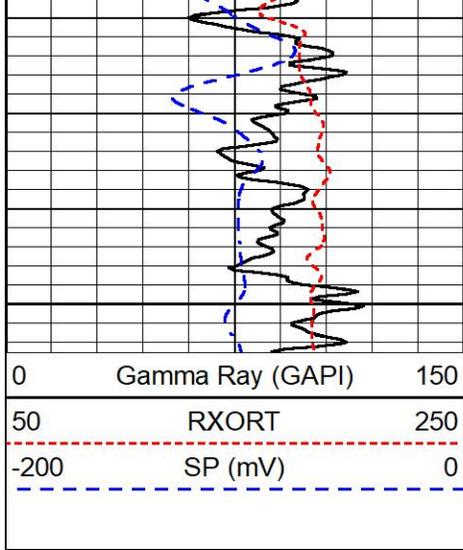
MAIN PASS

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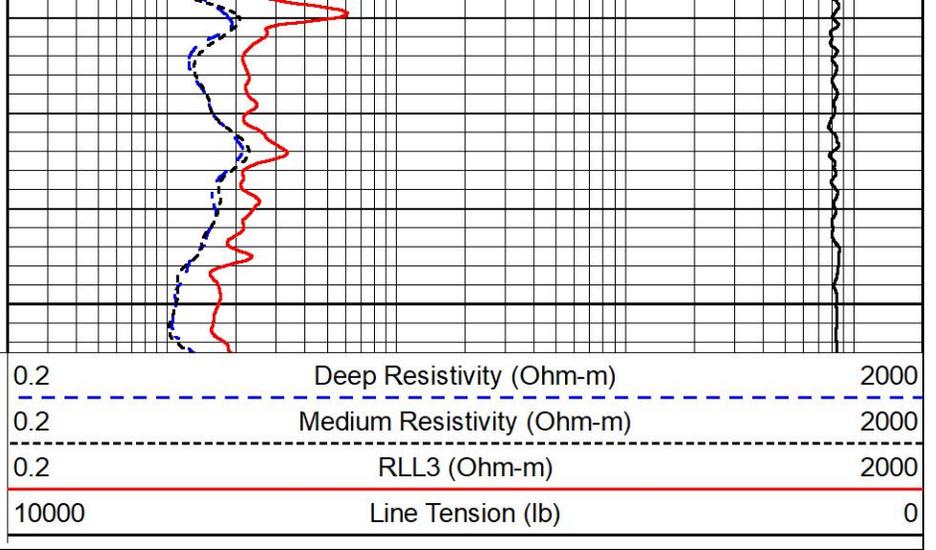
0 Gamma Ray (GAPI) 150
 50 RXORT 250
 -200 SP (mV) 0

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





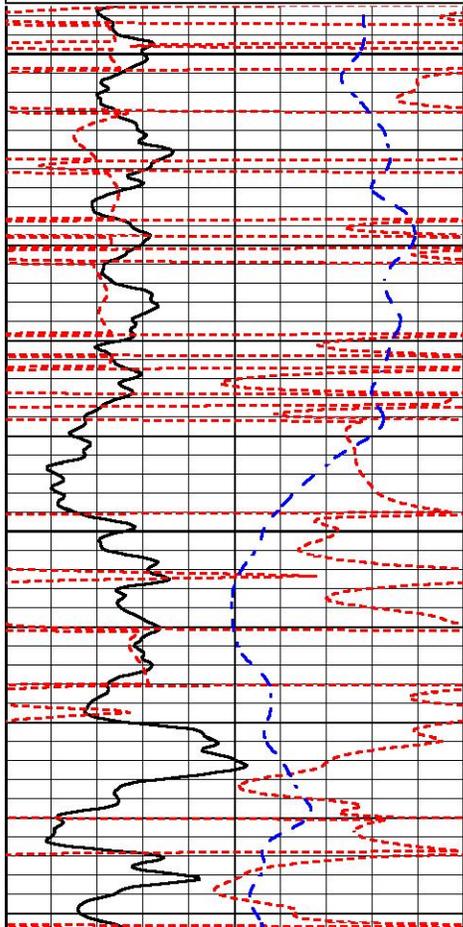
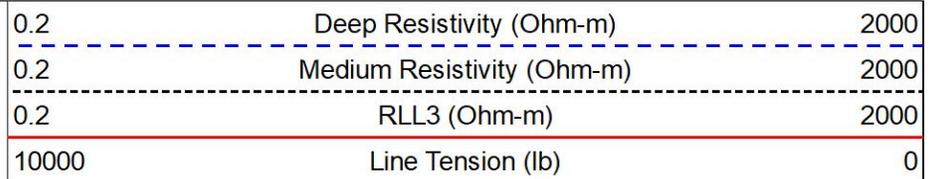
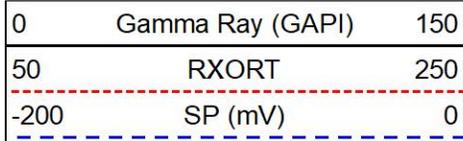
950



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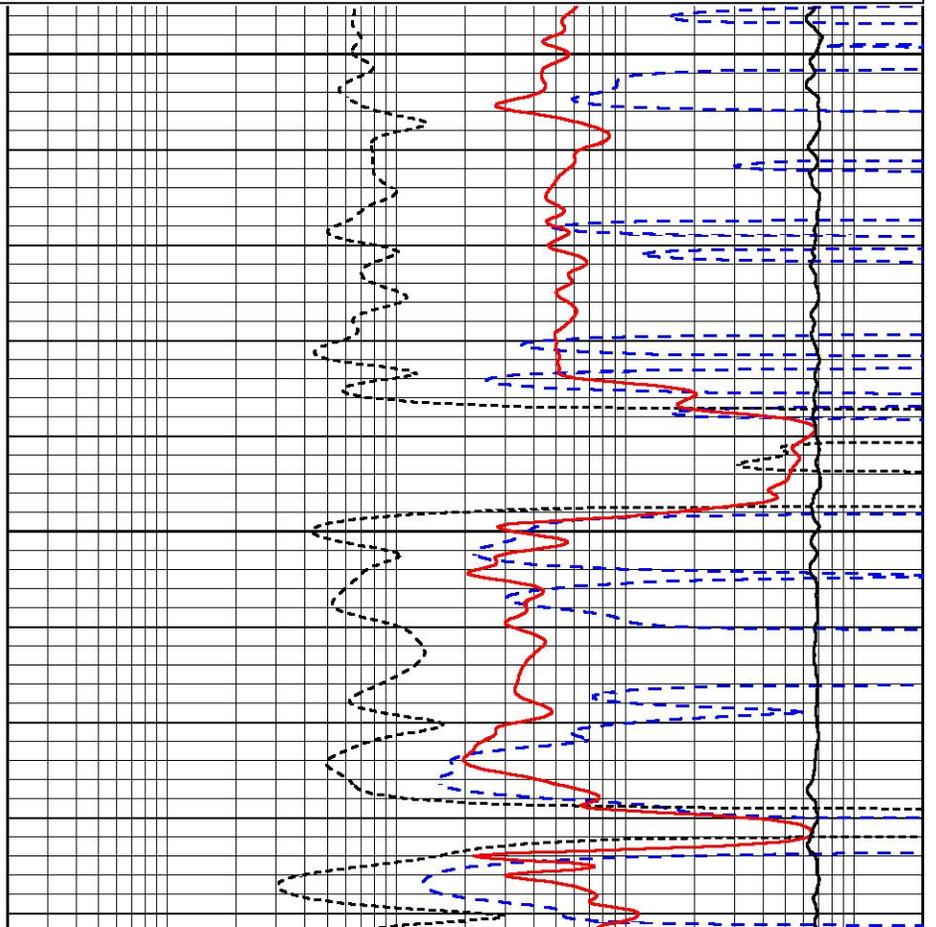
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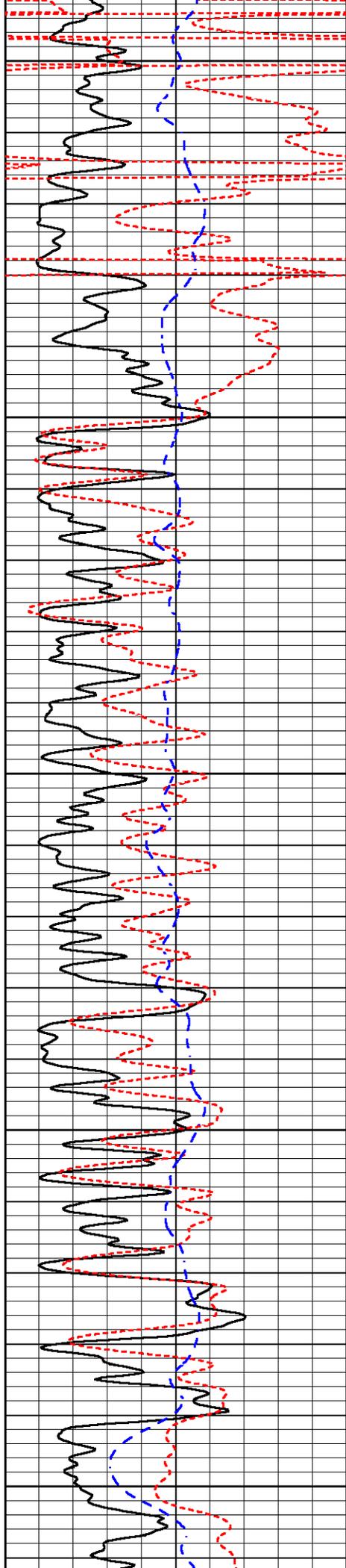
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1700

1750





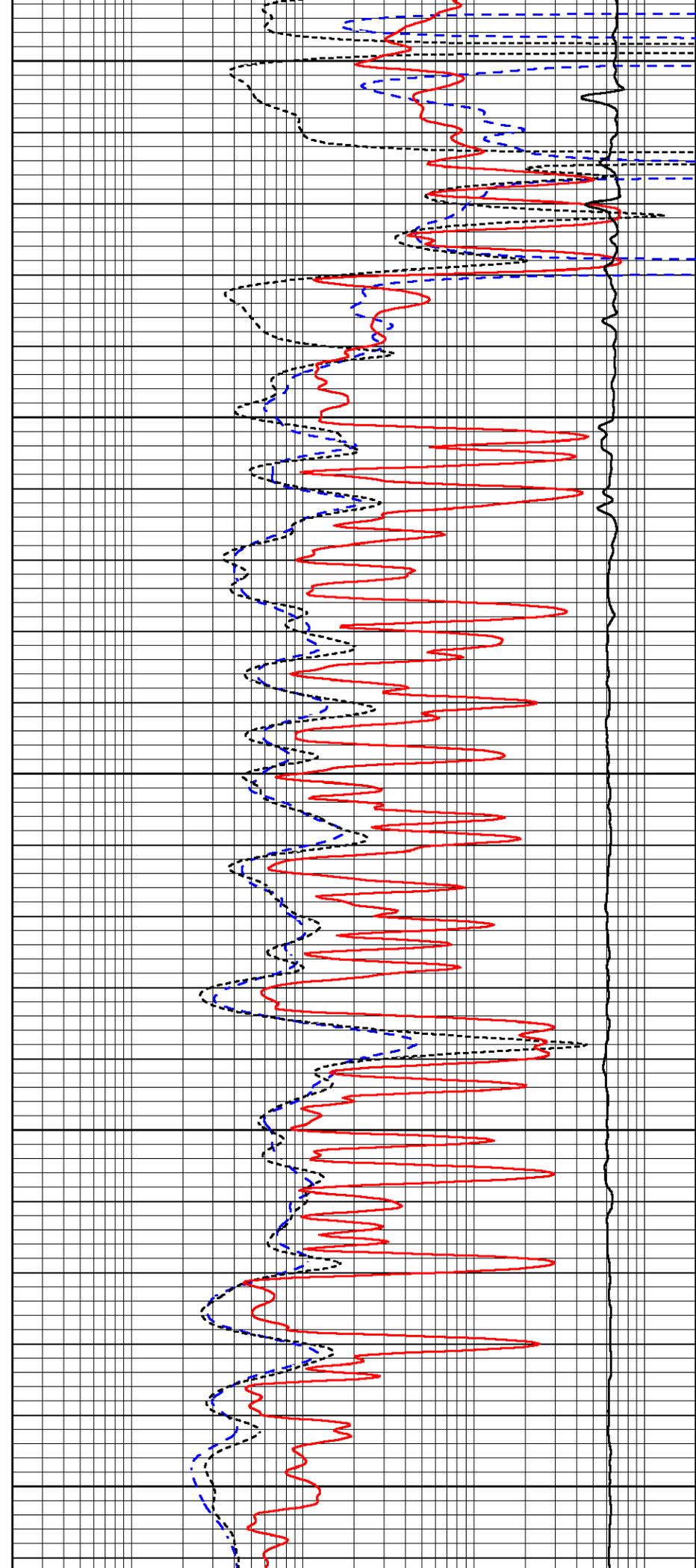
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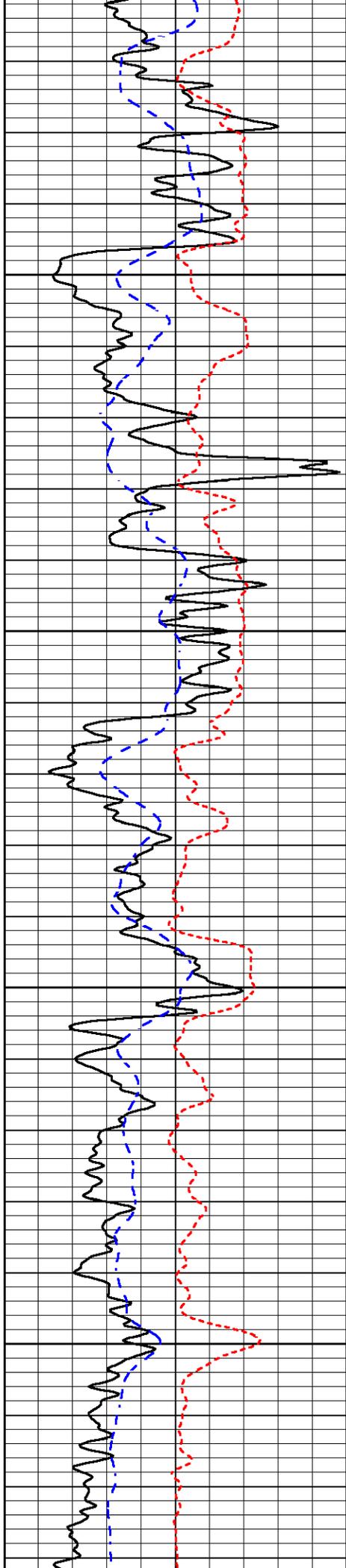
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1900

1950

2000



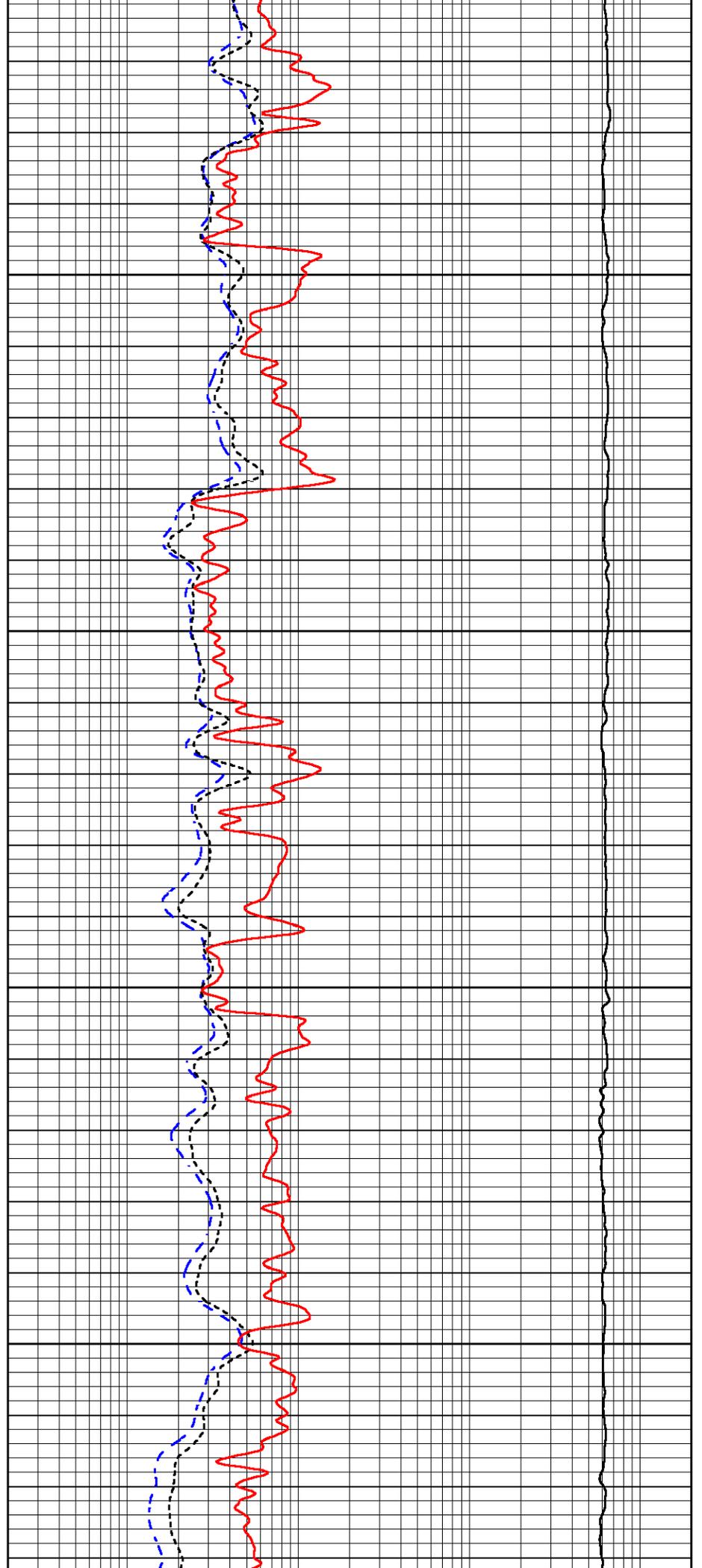


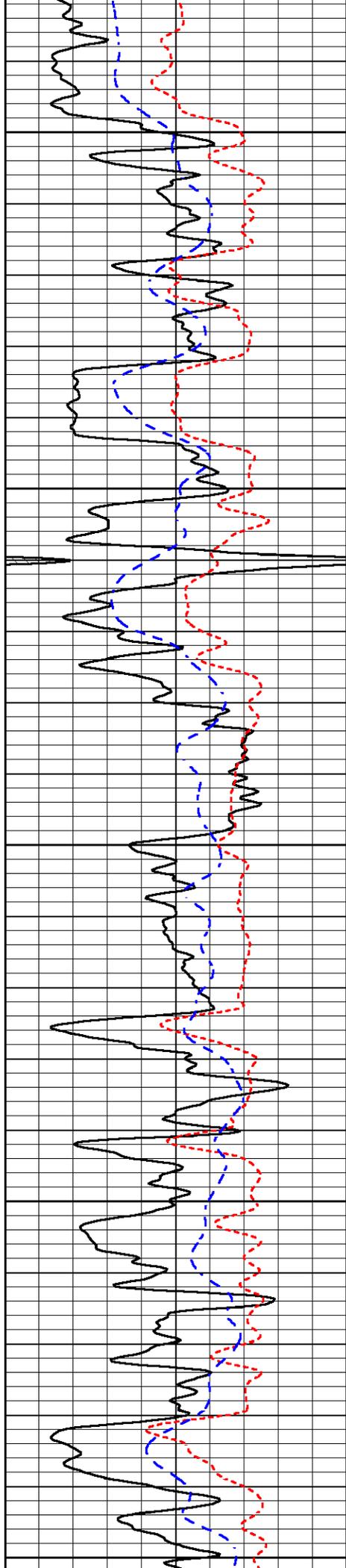
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2100

2150

2200





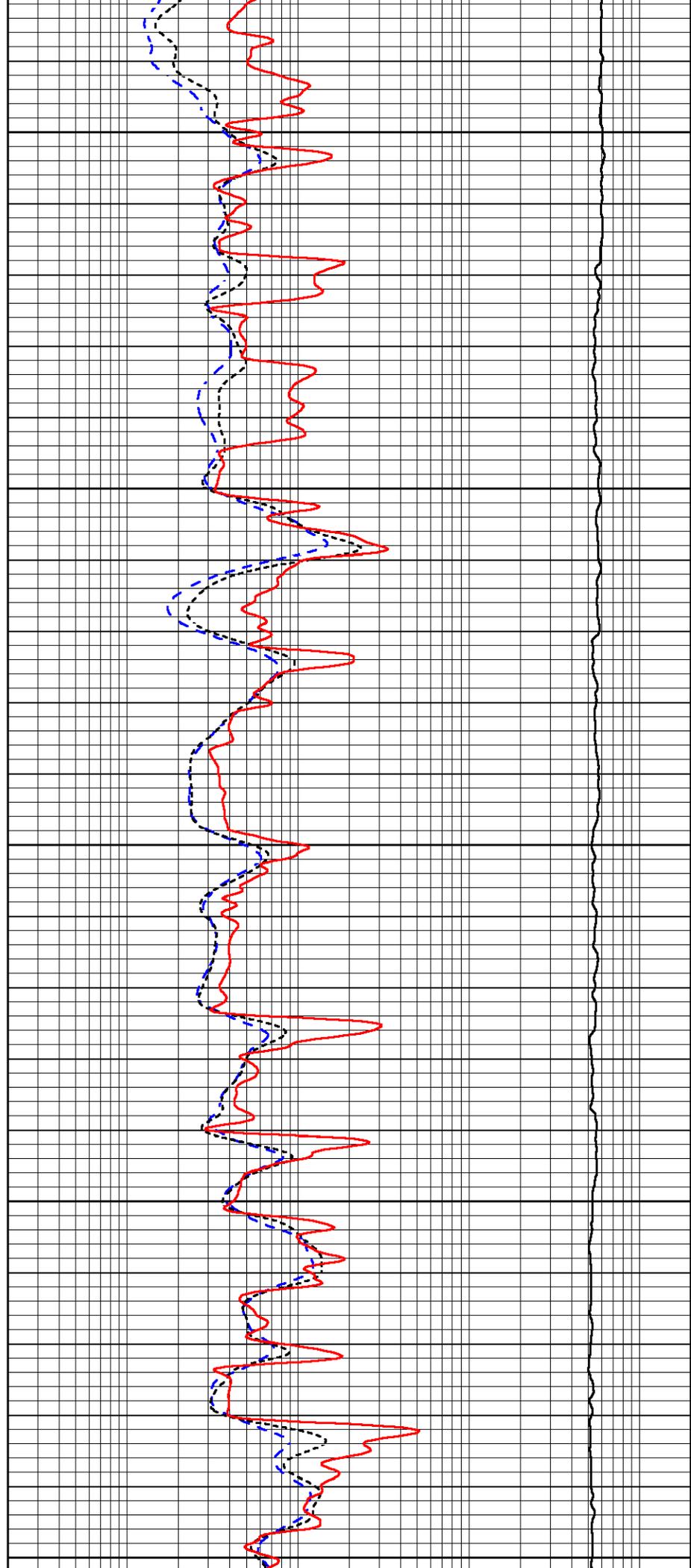
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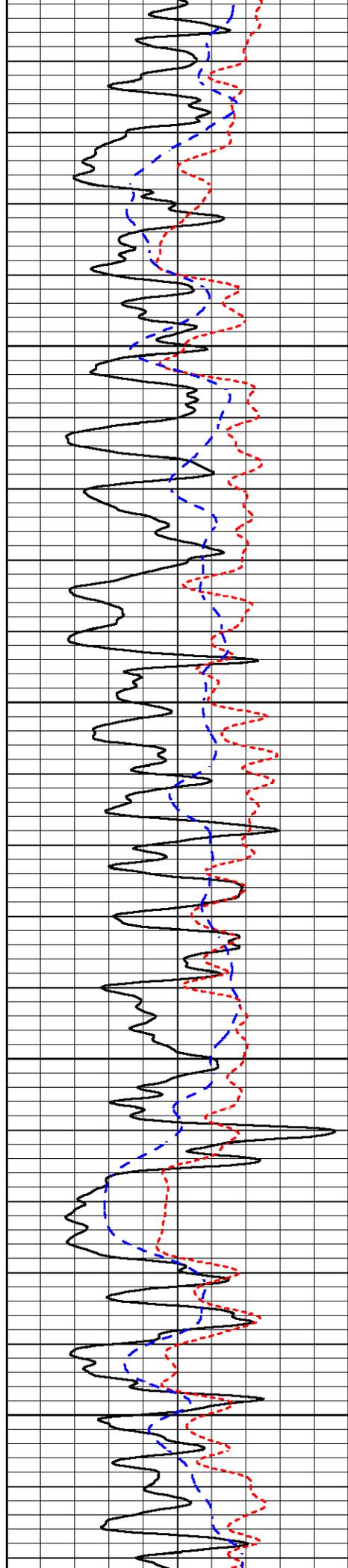
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2350

2400

2450



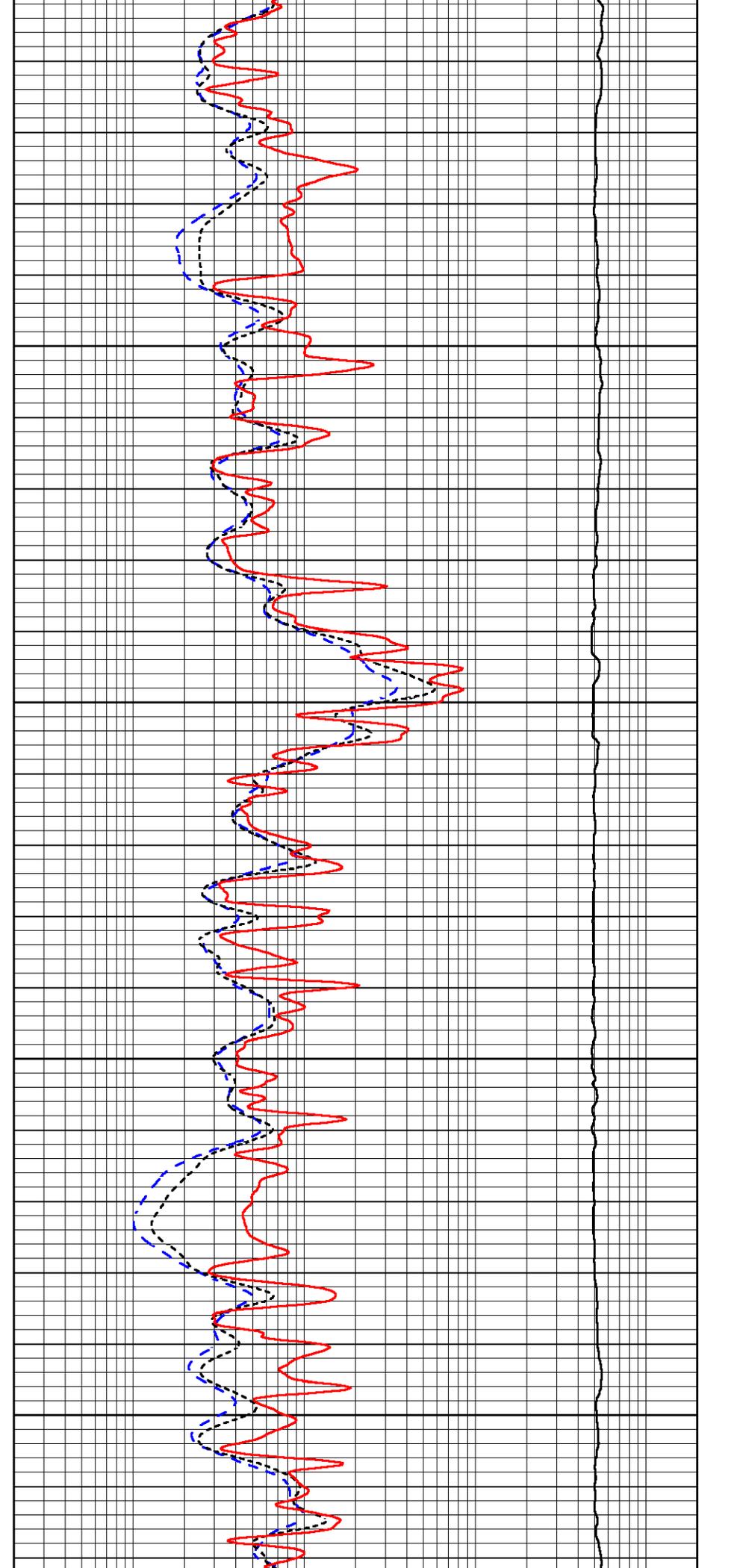


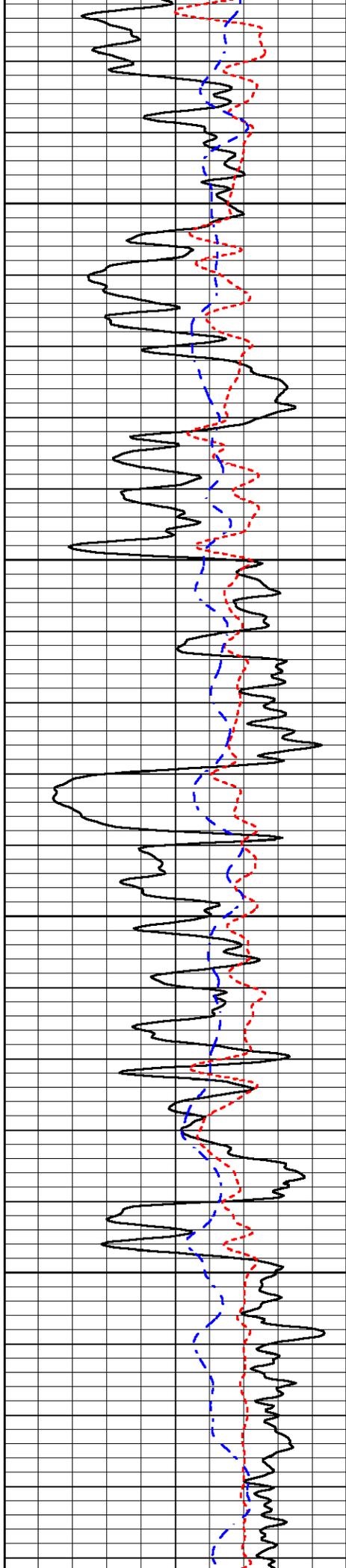
2500

2550

2600

2650



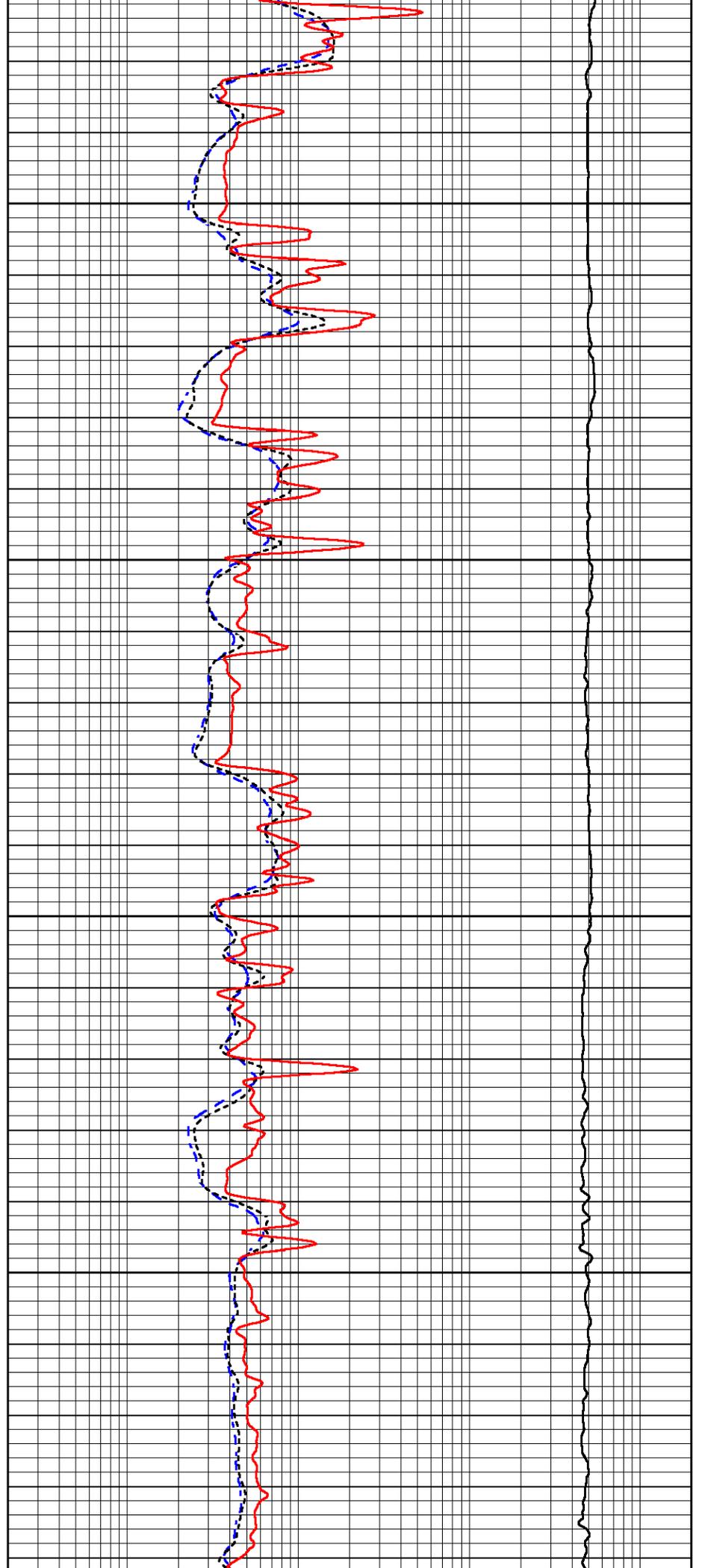


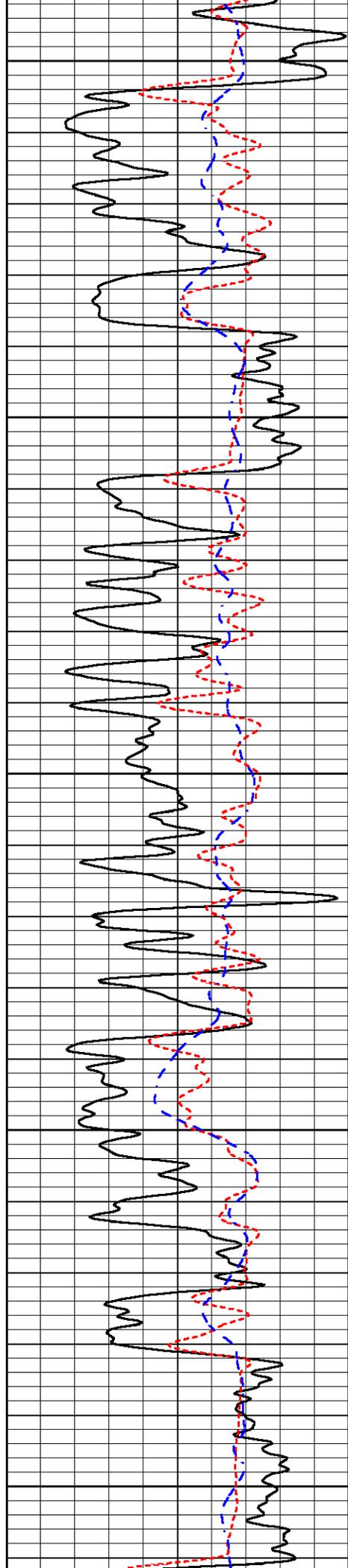
2700

2750

2800

2850





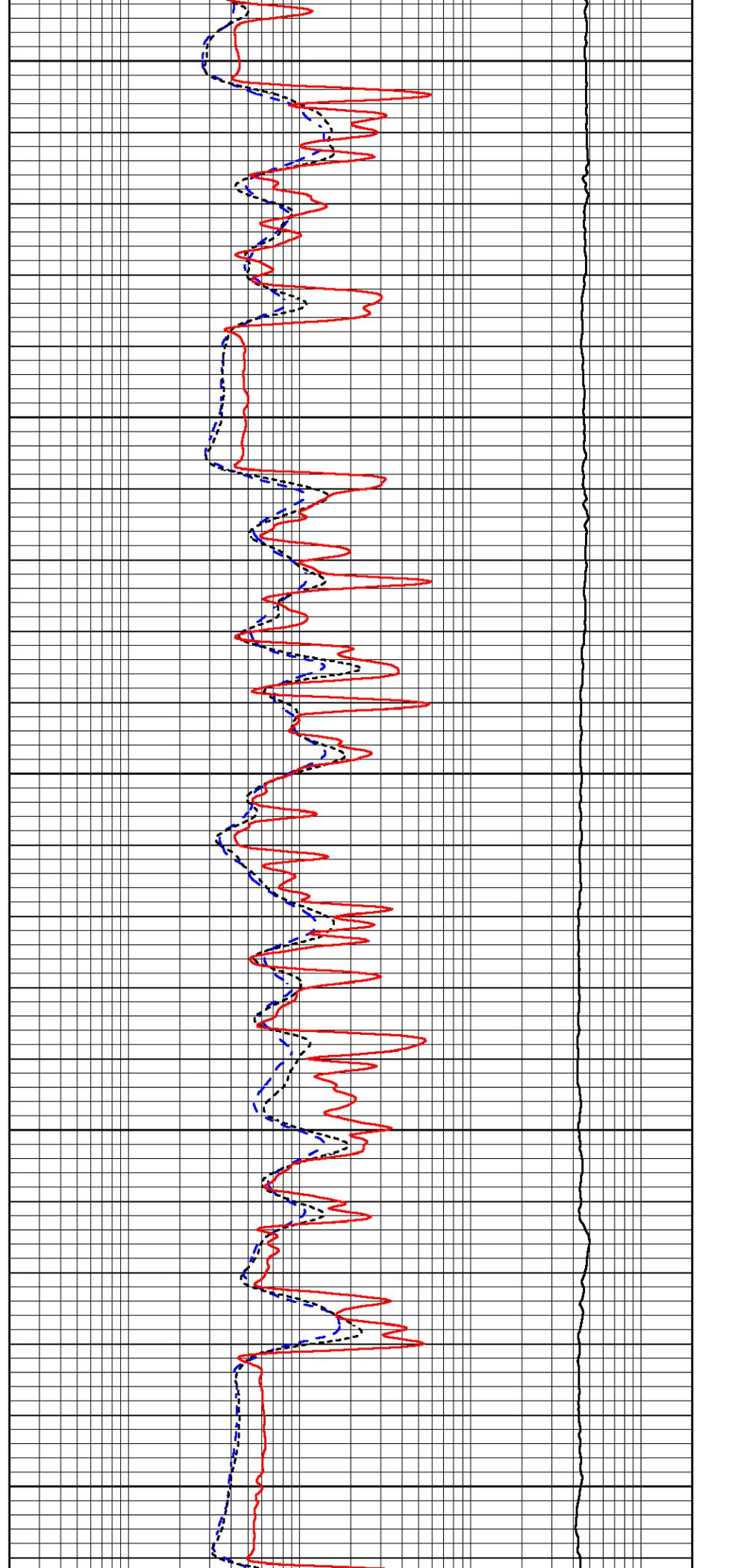
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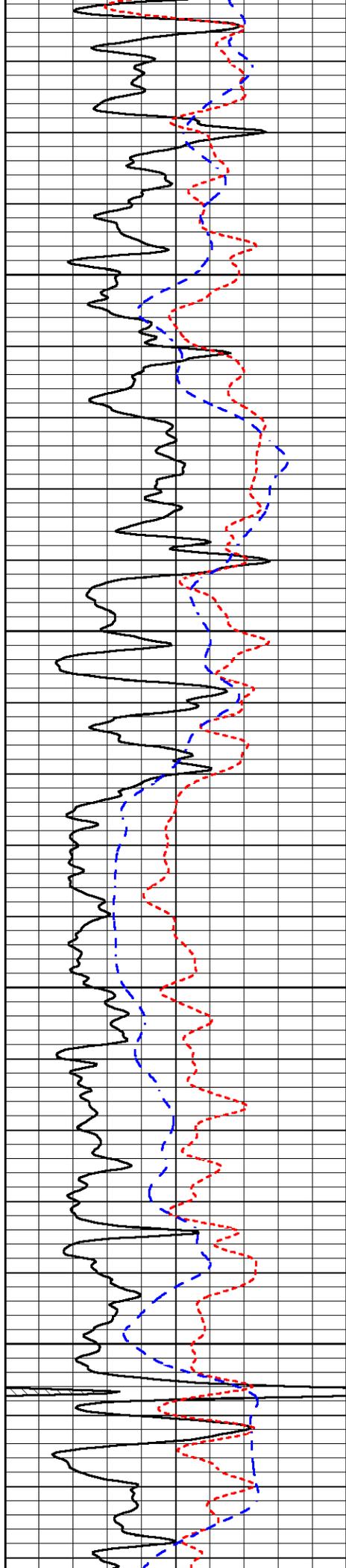
2950

3000

3050

3100



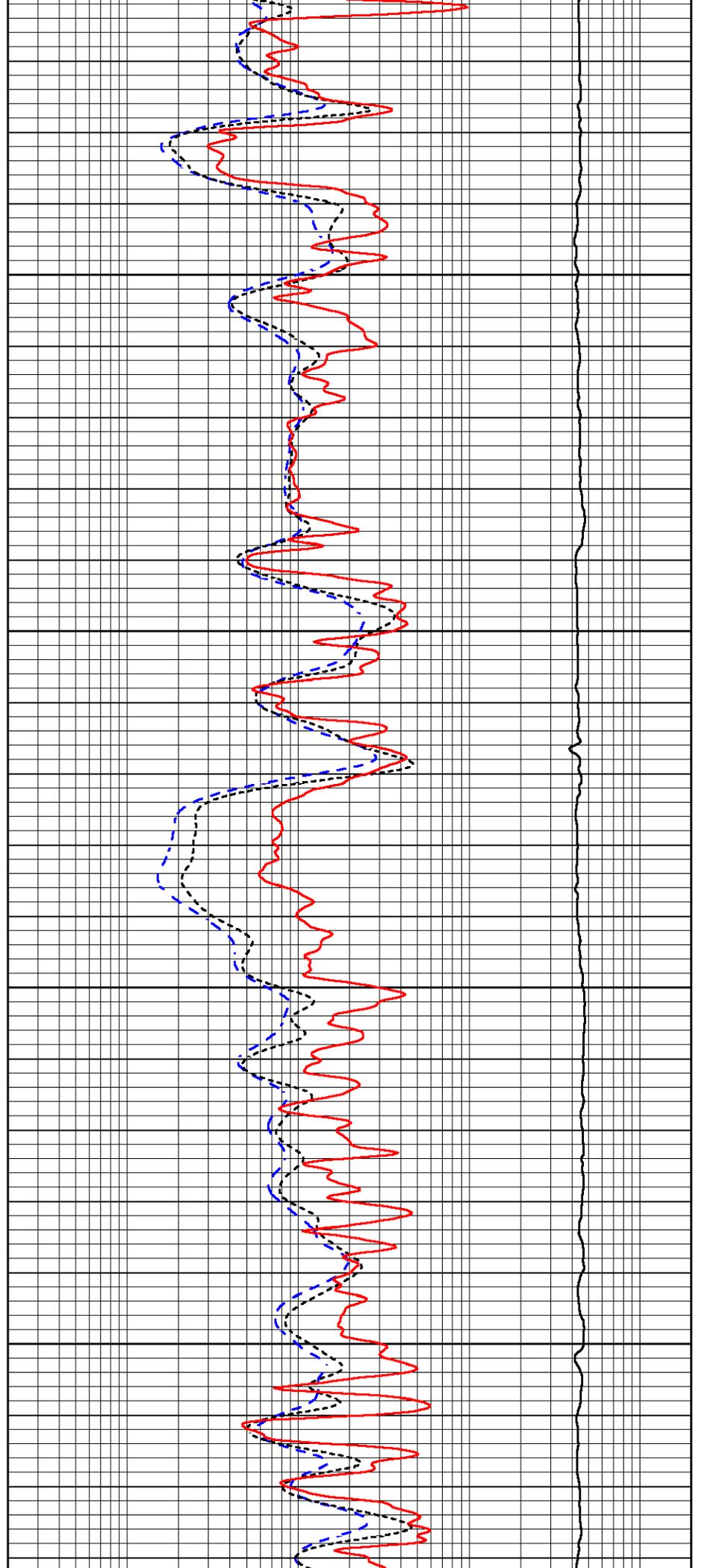


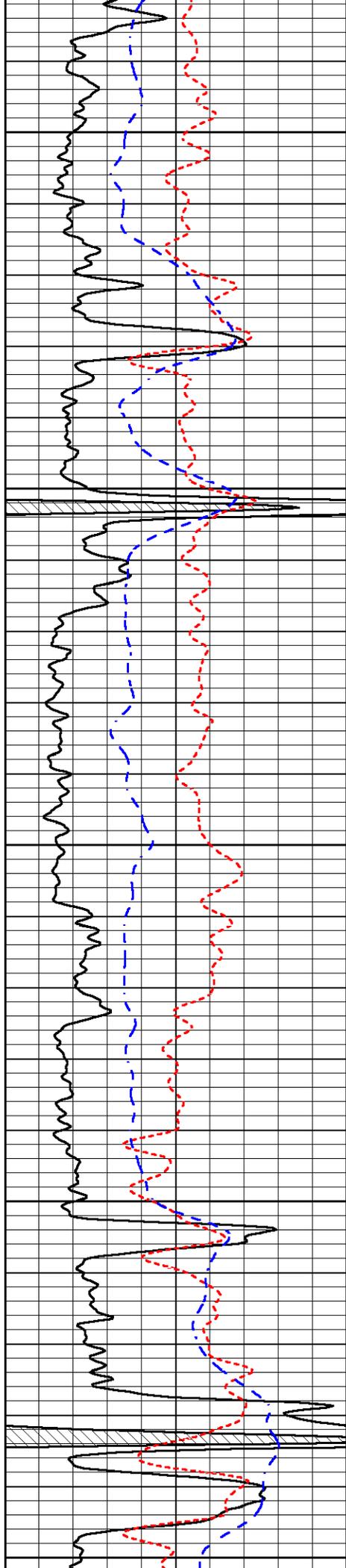
3150

3200

3250

3300





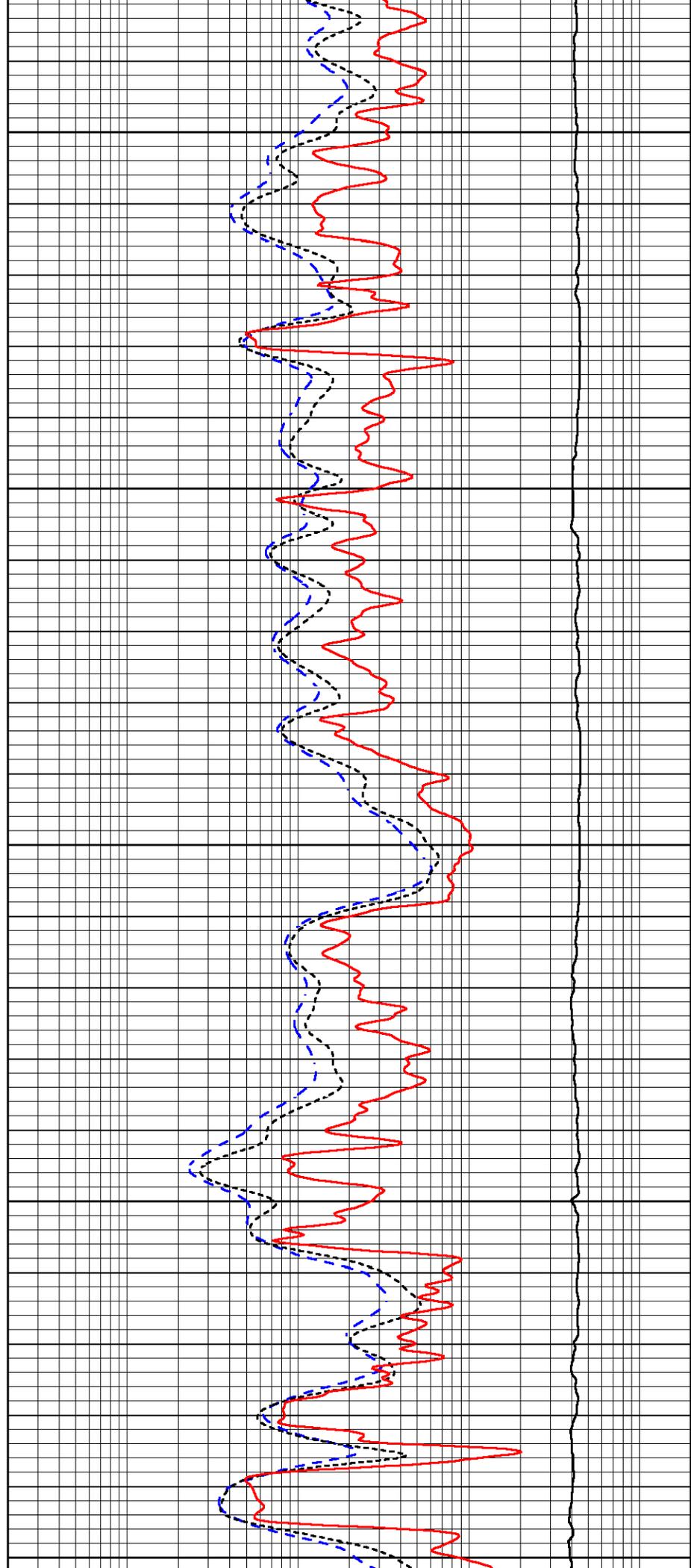
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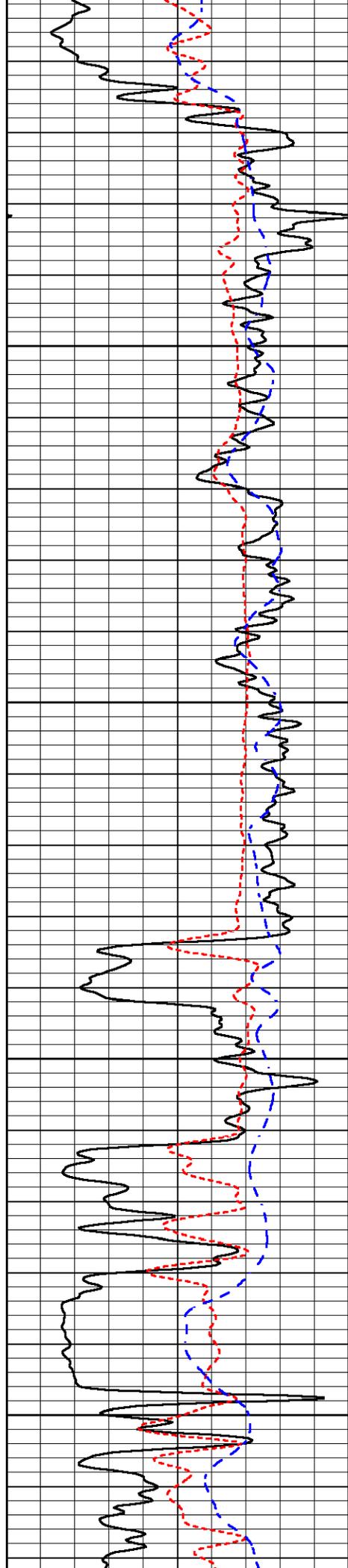
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3450

3500

3550



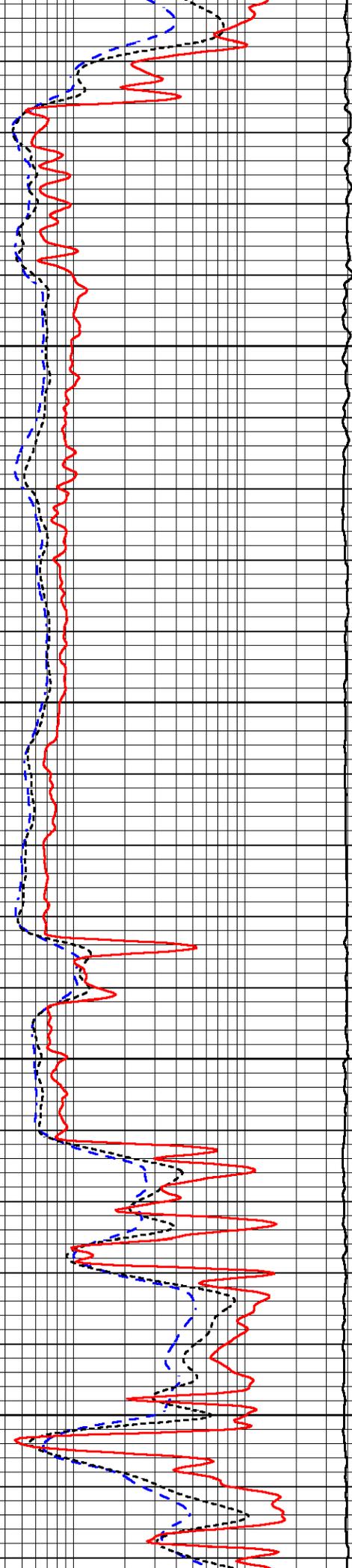


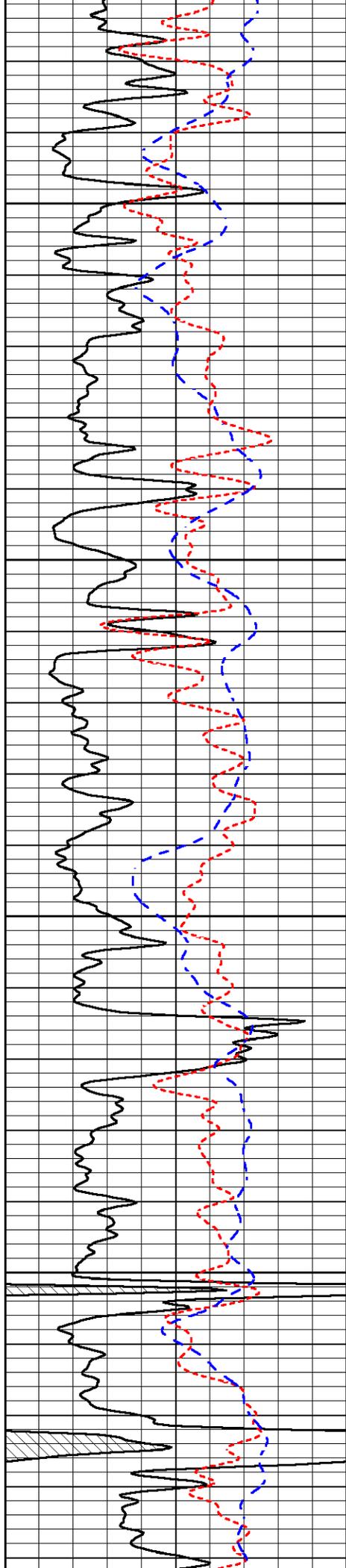
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3650

3700

3750



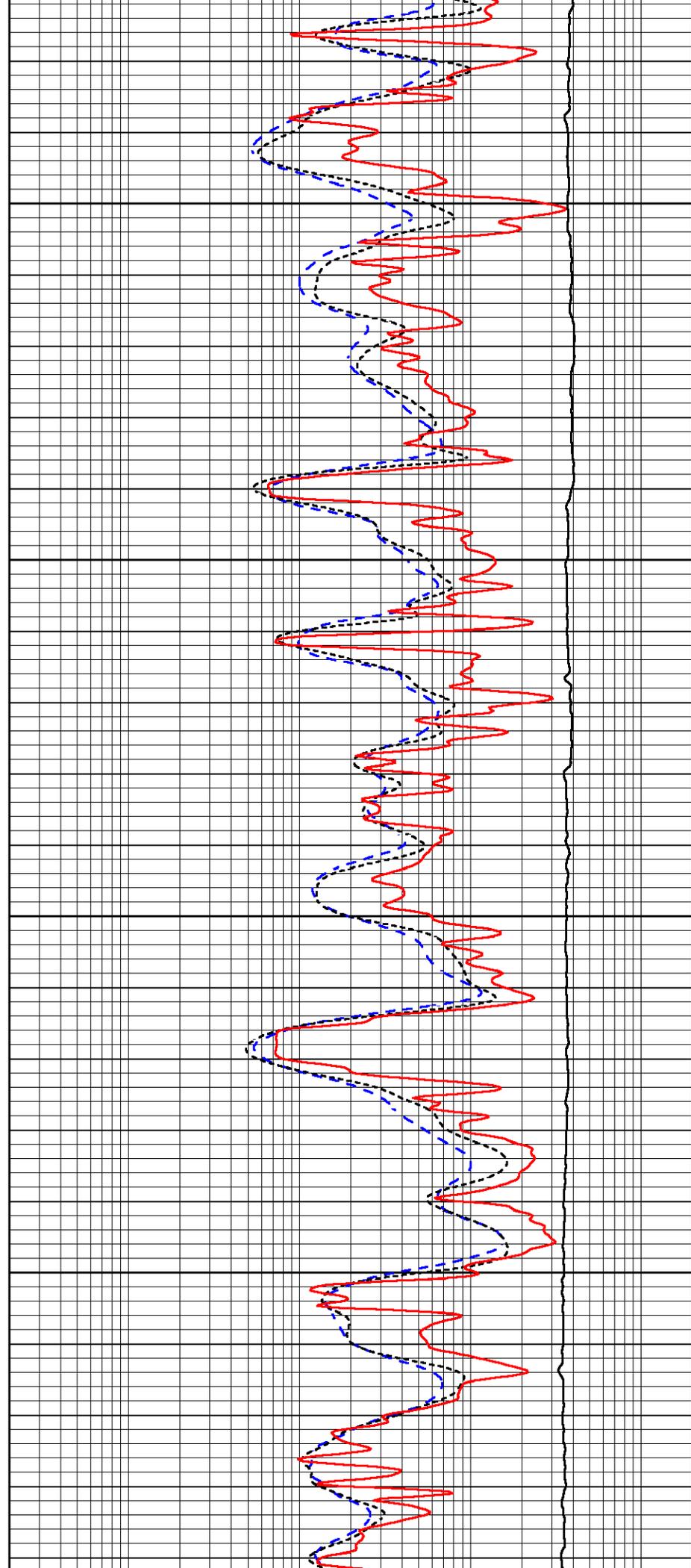


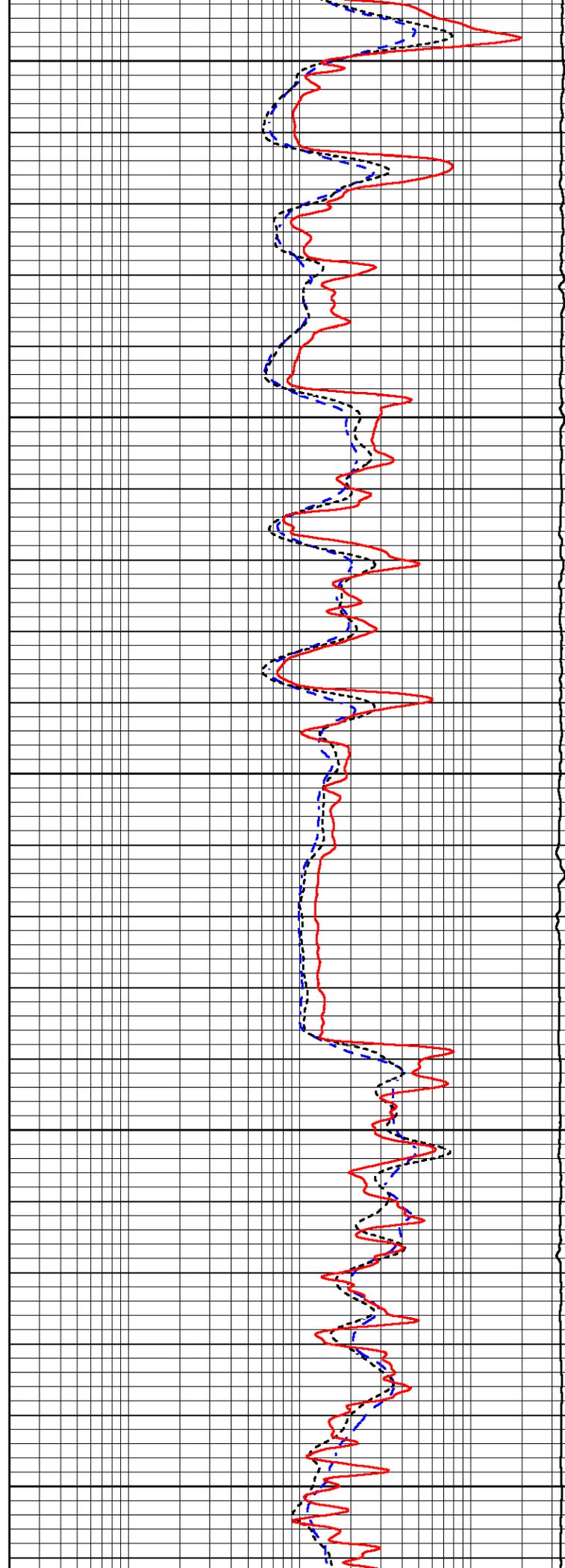
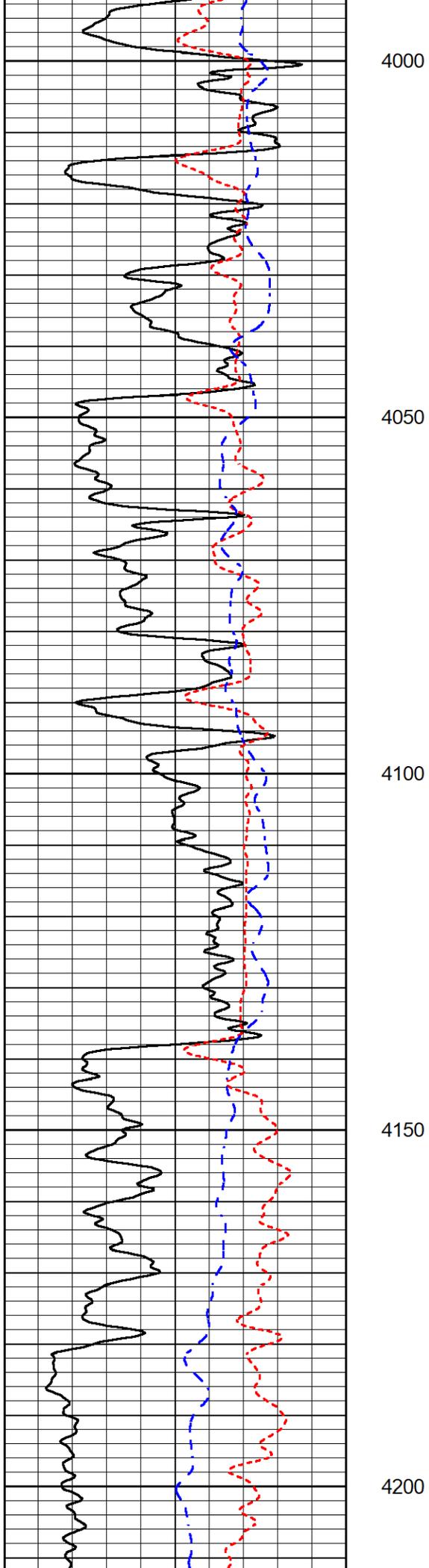
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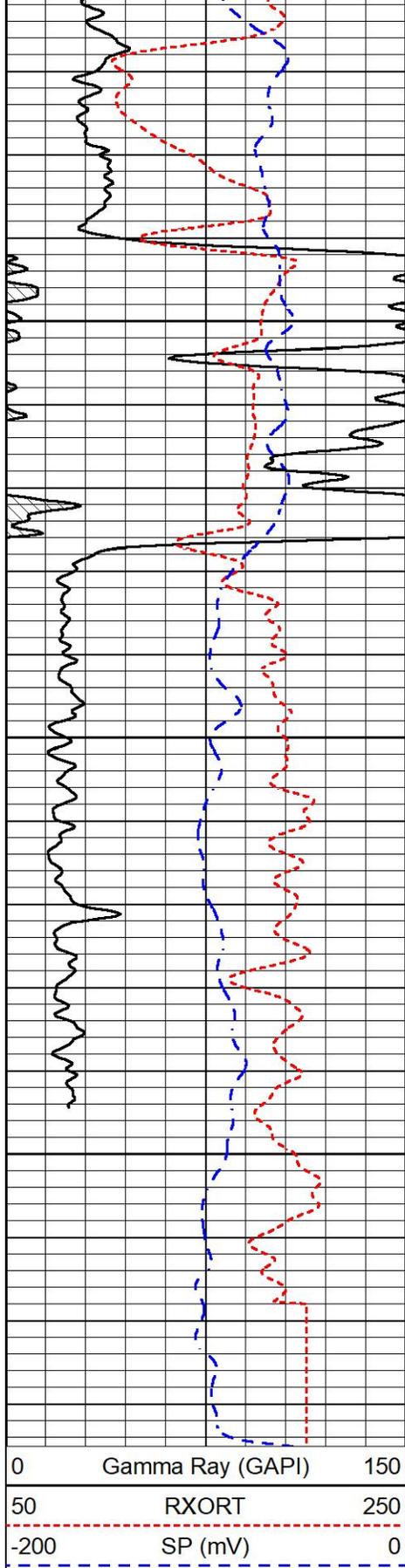
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3900

3950



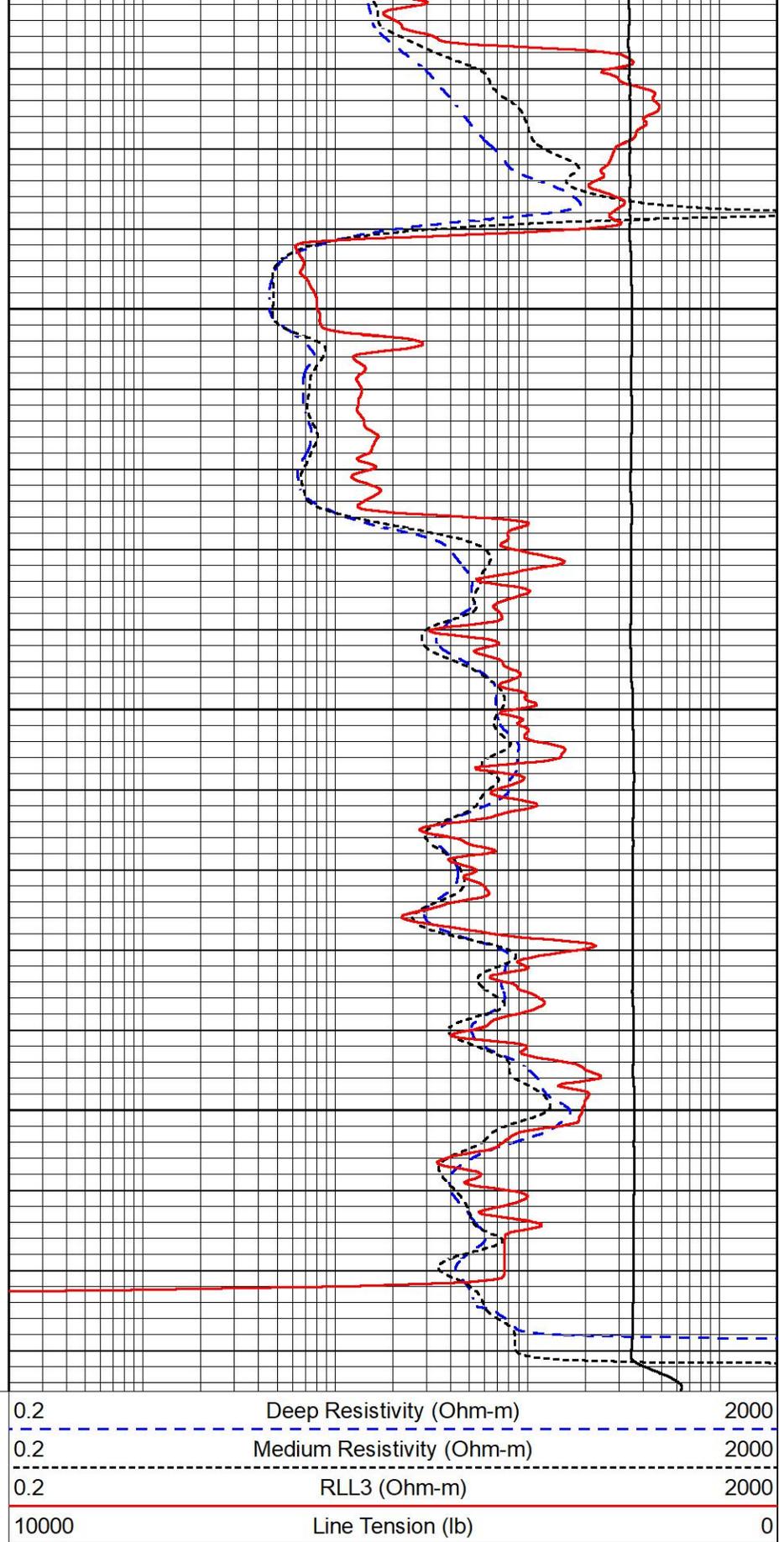




4250

4300

4350



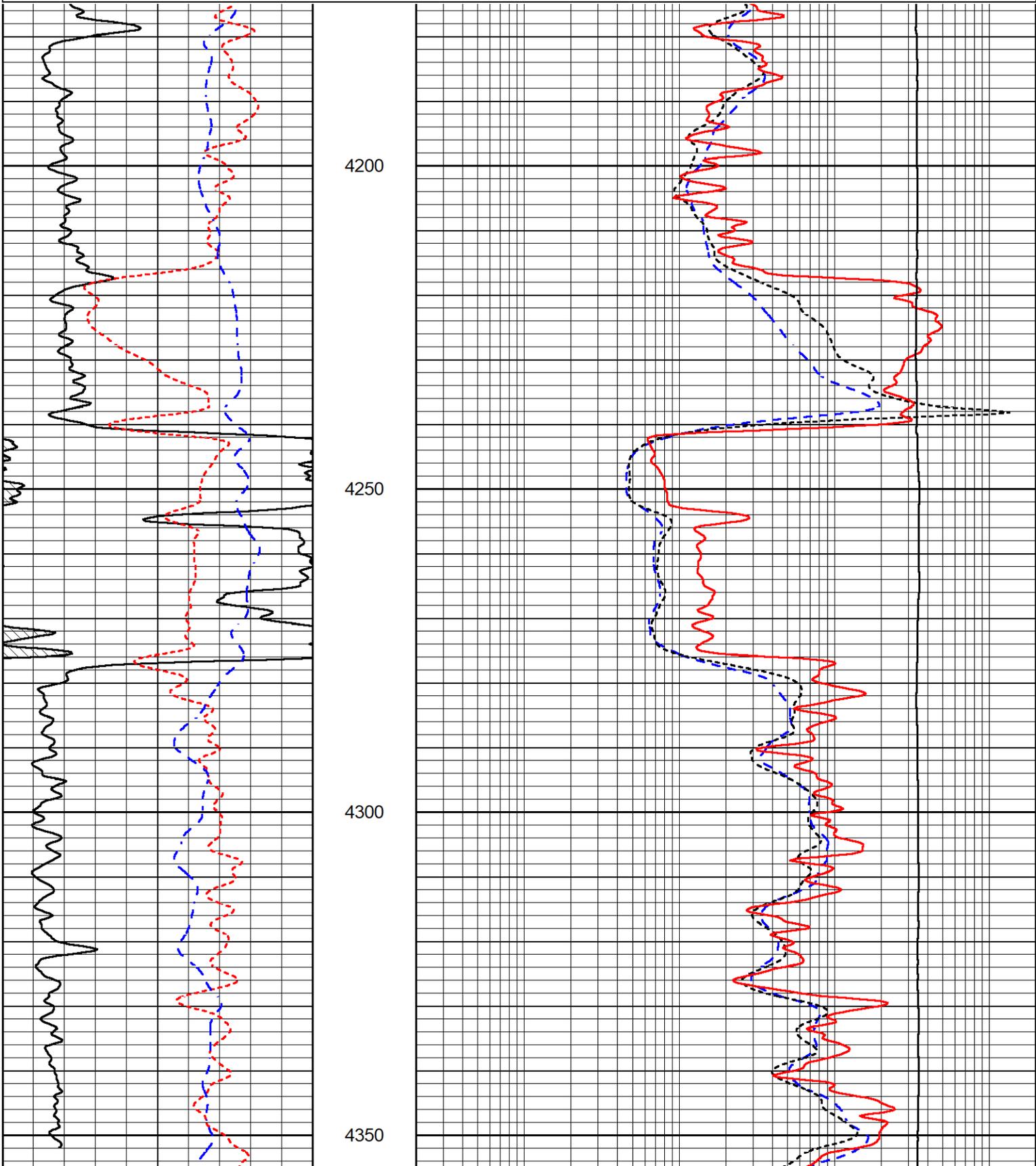
REPEAT SECTION

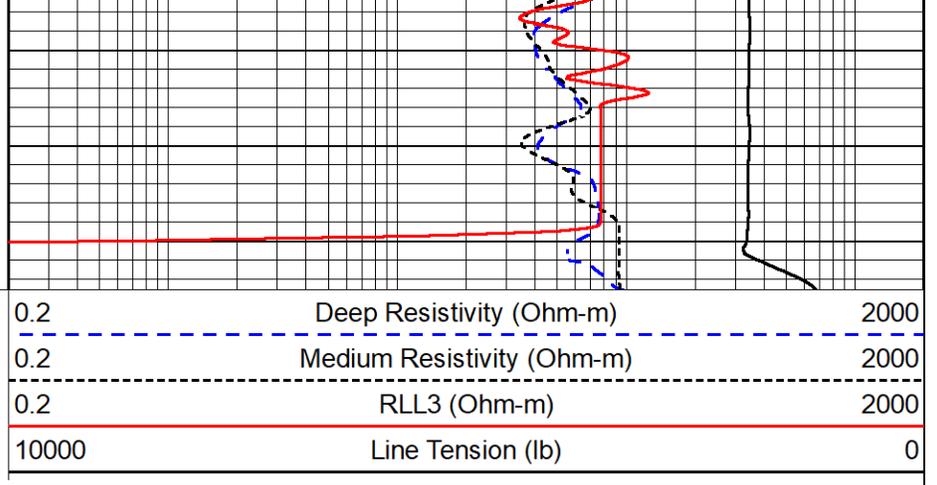
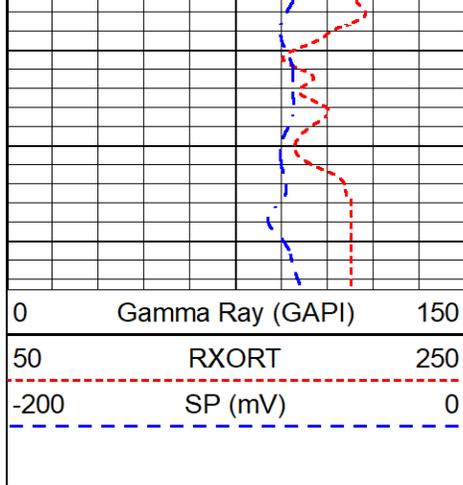
REPEAT PASS

Database File knighton_kipp c #1-26.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _dil
 Dataset Creation Wed Apr 24 14:32:55 2024
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
50	RXORT	250
-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





Calibration Report

Database File knighton_kipp c #1-26.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Wed Apr 24 15:16:29 2024

Dual Induction Calibration Report

Serial-Model: 507-M&W
 Surface Cal Performed: Fri Jul 14 14:17:56 2023

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.450	-79.000

Microlog Calibration Report

Serial-Model: 401-PSIML
 Performed: Mon Sep 25 22:02:56 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	5750.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	8500.0000	-0.4000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.9000

LITHODENSITY Calibration Report

Serial Number: 704-10
 Tool Model: STEP LITHO
 Performed: Wed Oct 11 14:52:04 2023

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	52	56	202	260	22	71	45	1	cps
LS:	82	93	356	462	52	144	94	3	cps

Aluminum:	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
SS:	868	1009	2312	2012	39	73	47	2	cps
LS:	1063	1847	3324	1556	63	146	95	6	cps

Magnesium:	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
SS:	1450	1200	2850	2000	40	70	40	0	cps
LS:	1450	1200	2850	2000	40	70	40	0	cps

SS:	1458	1686	3853	2923	42	73	48	3	cps
LS:	4604	7631	13124	4967	100	134	94	14	cps

Aluminum+Iron:

SS:	538	708	1910	1720	37	73	47	1	cps
LS:	619	1309	2817	1400	60	147	97	5	cps

	Density			PE					
	Actual	Calibrated		Actual	Calibrated	Quality			
Background:									
SS:						0.225			
LS:						0.208			
Aluminum:									
SS:	2.6000	2.6000	g/cc			0.210			
LS:	2.6000	2.6000	g/cc			0.210			
Magnesium:									
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.207			
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.173			
Aluminum+Iron:									
SS:						6.1800	0.215		
LS:						6.1800	0.205		

Caliper:		Reference:		Reading:	
Small Ring:		6.0	in	0.2	
Large Ring:		16.0	in	0.8	
Gain:		16.161			
Offset:		1.050			

Compensated Neutron Calibration Report

Serial Number:	207
Tool Model:	M&W

CALIBRATION

Detector	Readings	Target	Normalization
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:	102	
Tool Model:	M&W	
Performed:	Mon Sep 25 22:02:33 2023	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5250	GAPI/cps



Company	Knighton Oil Company, Inc.
Well	Kipp C #1-26
Field	Kipp
County	Stafford
State	Kansas