



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Ressler Well Service, Inc.			
Well	Teten B #19		
Field	Burrtton		
County	Reno		
State	Kansas		
Company Ressler Well Service, Inc.			
Well	Teten B #19		
Field	Burrtton		
County	Reno		
State	Kansas		
Location: API #: 15-155-21793-00-00			
990 FNL & 495 FEL			
SEC 12 TWP 23S RGE 4W			
Permanent Datum	Ground Level	Elevation	1495
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
Other Services		CNL/CDL	
Elevation		K.B. 1507	
D.F.		G.L. 1495	
Date	12/18/2022		
Run Number	One		
Depth Driller	3485		
Depth Logger	3485		
Bottom Logged Interval	3484		
Top Log Interval	300		
Casing Driller	13.375 @ 314		
Casing Logger	316		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1400		
Density / Viscosity	9.0 43		
pH / Fluid Loss	11.0 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.70 @ 50		
Rmt @ Meas. Temp	0.53 @ 50		
Rmc @ Meas. Temp	0.95 @ 50		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.32 @ 111		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	111		
Equipment Number	P-108		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Larry Ressler		

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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.

Burrtton,
West to Woodberry, 2 3/4 North,
West 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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Larry Ressler
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\ressler_teten b 19.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	111	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	220	50		3485

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
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



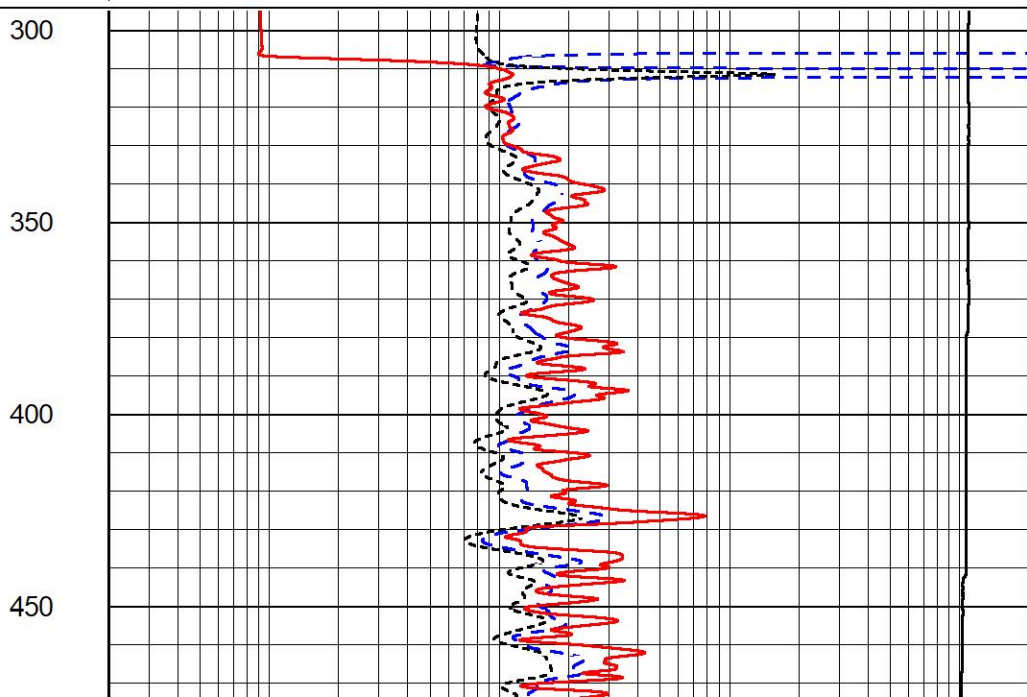
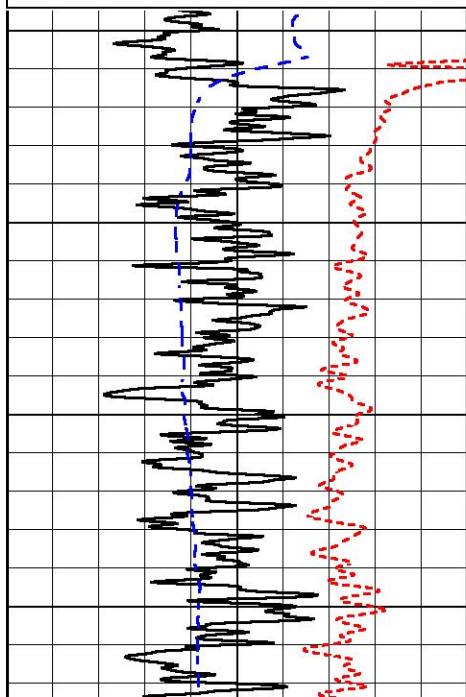
2" SCALE RESISTIVITY

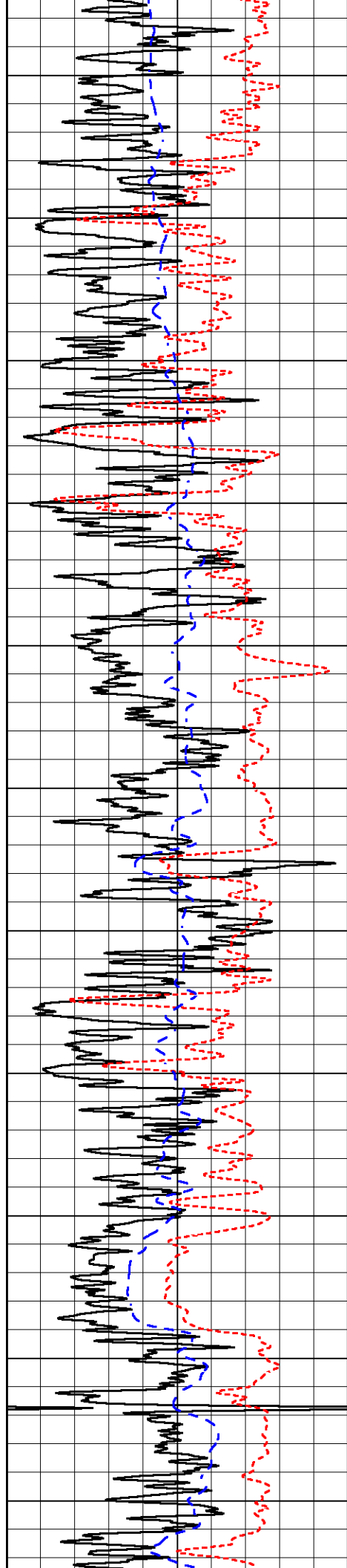
MAIN PASS

Database File ressler_teten b 19.db
Dataset Pathname stack/pass3.3
Presentation Format _dil
Dataset Creation Sun Dec 18 13:49:46 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-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





500

550

600

650

700

750

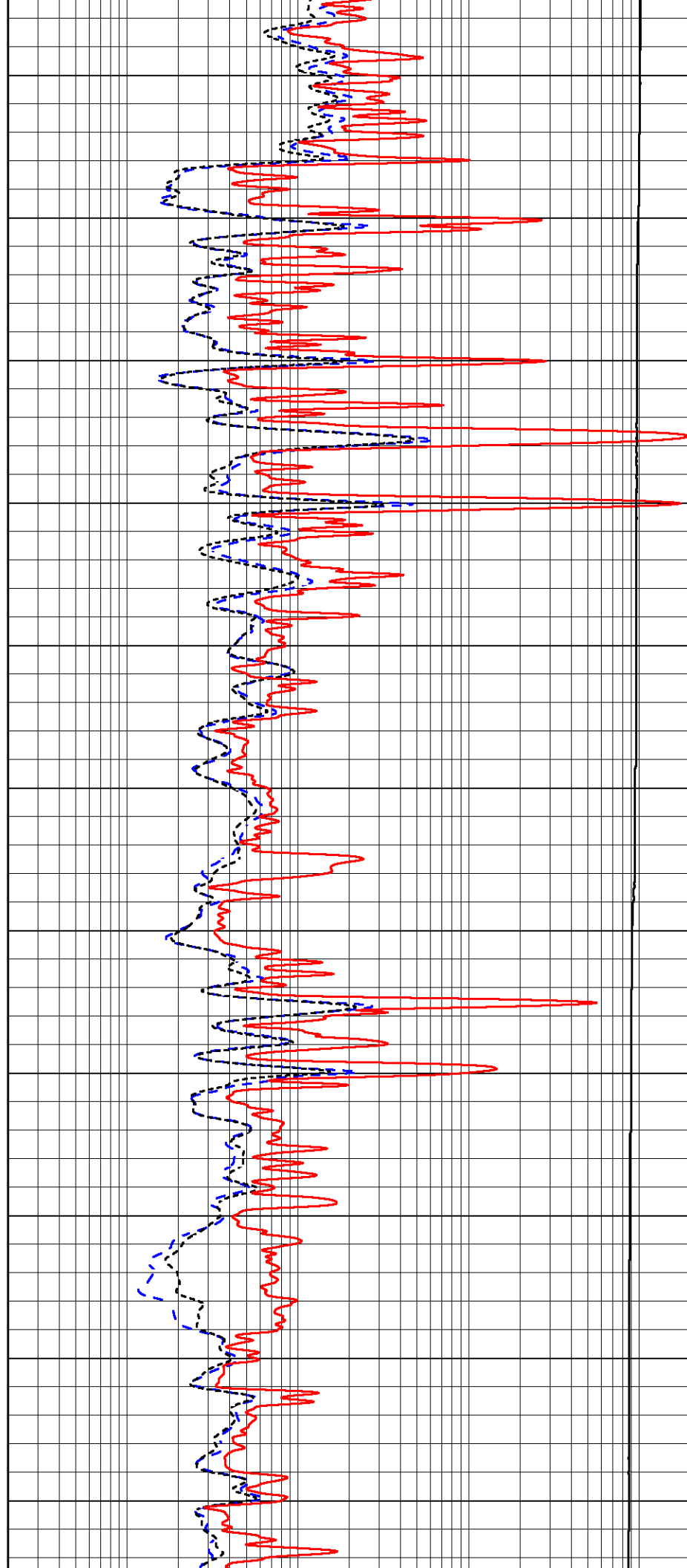
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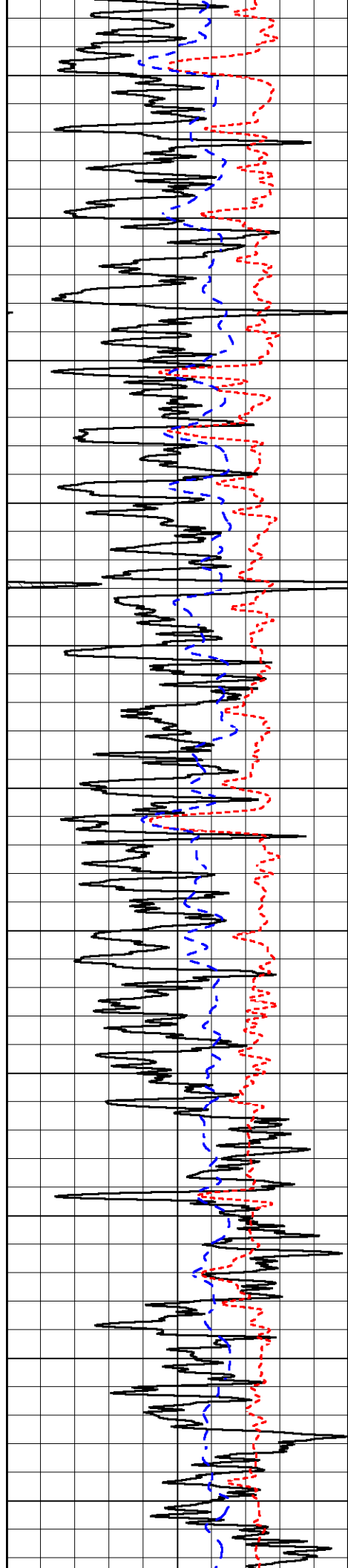
850

900

950

1000





1050

1100

1150

1200

1250

1300

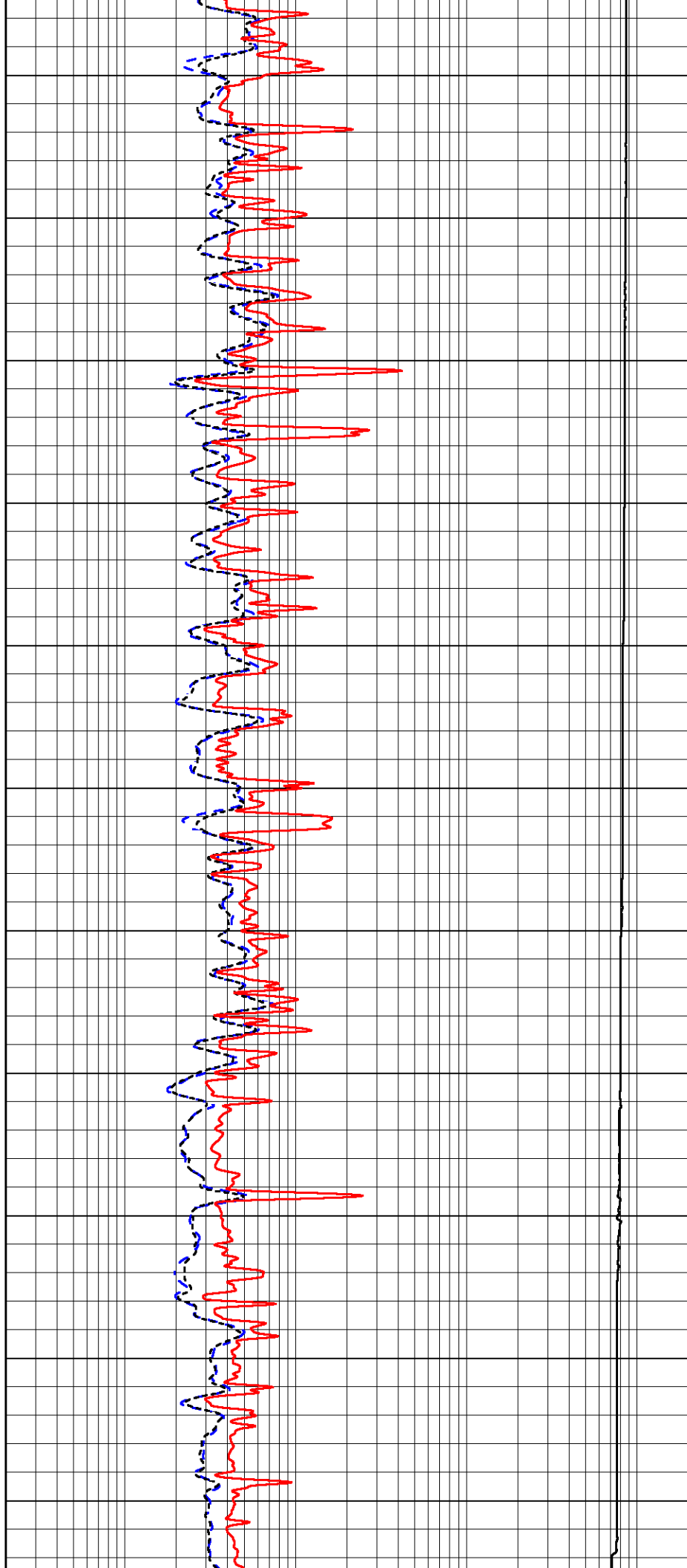
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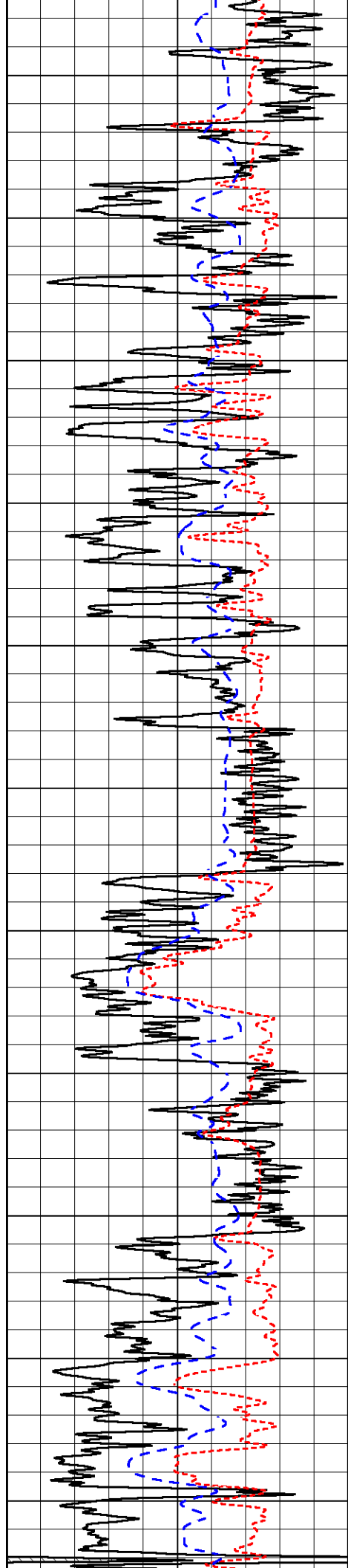
1400

1450

1500

1550





1600

1650

1700

1750

1800

1850

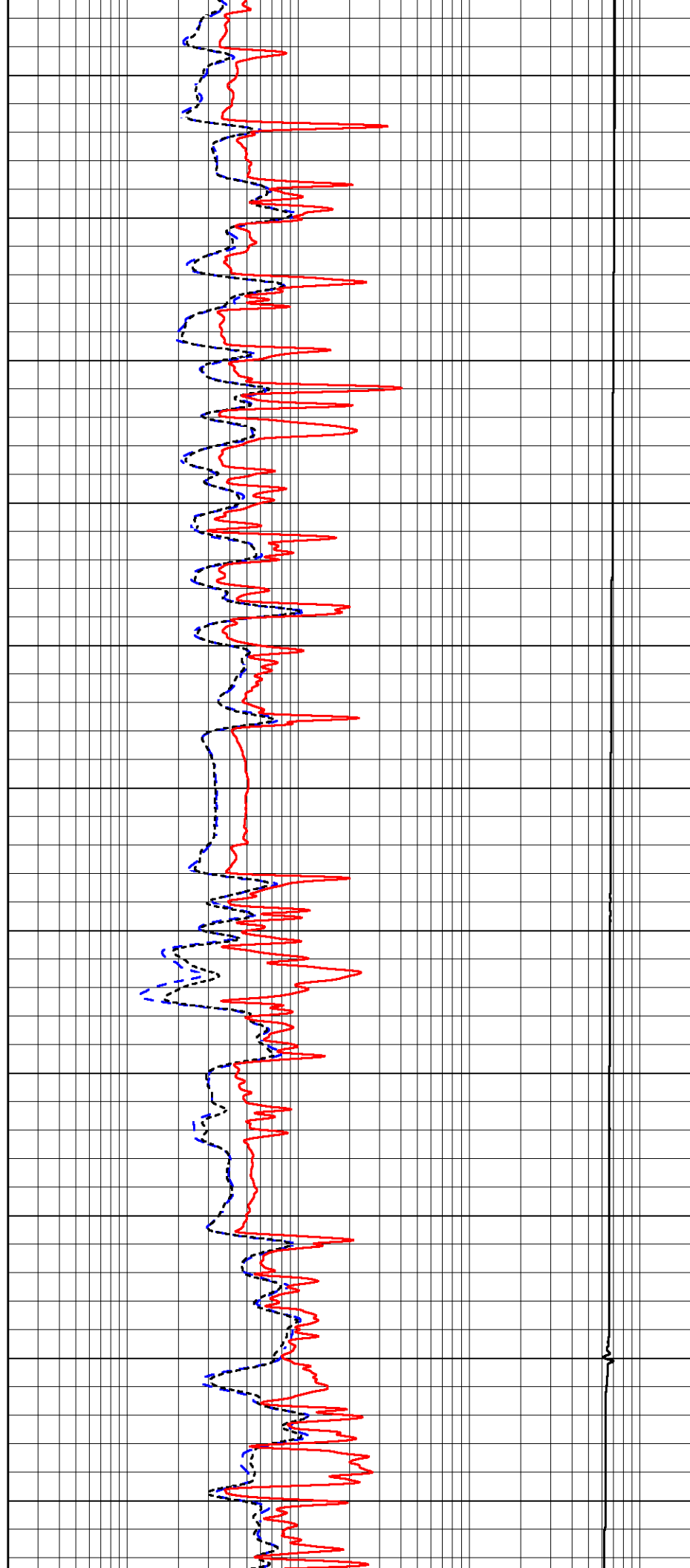
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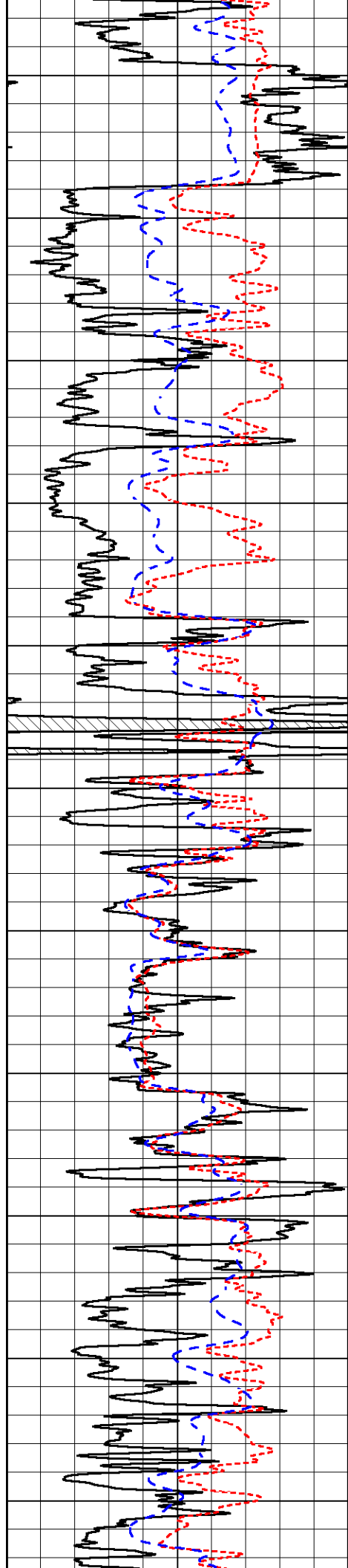
1950

2000

2050

2100





2150

2200

2250

2300

2350

2400

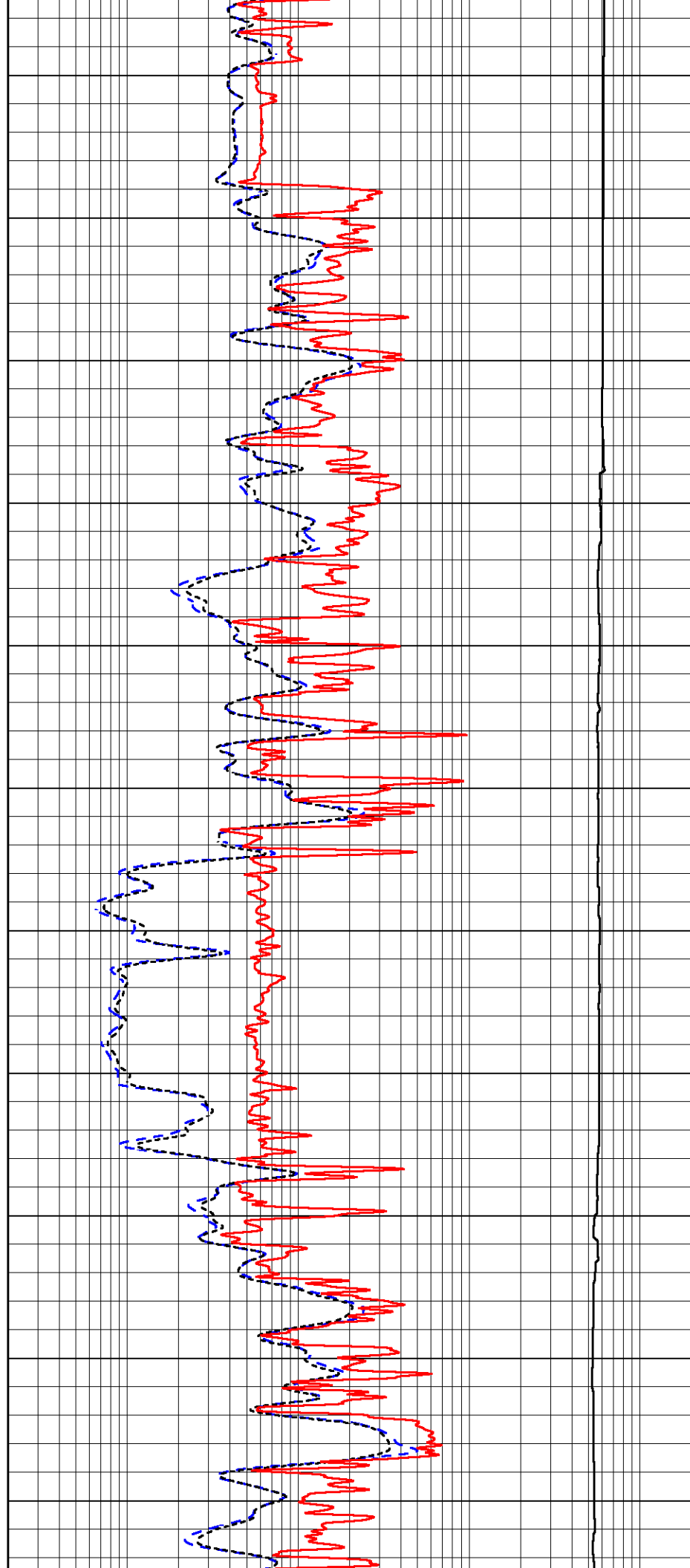
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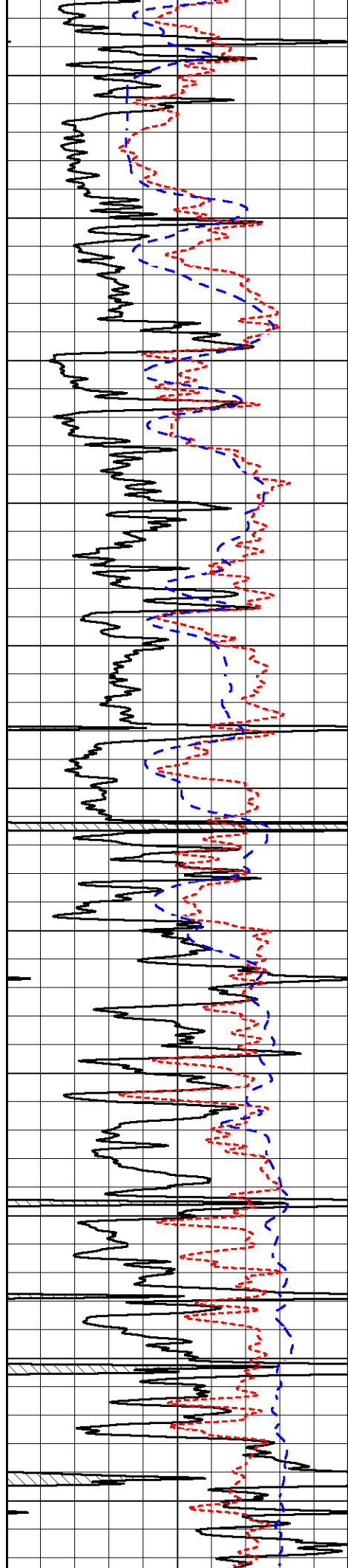
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2550

2600

2650





2700

2750

2800

2850

2900

2950

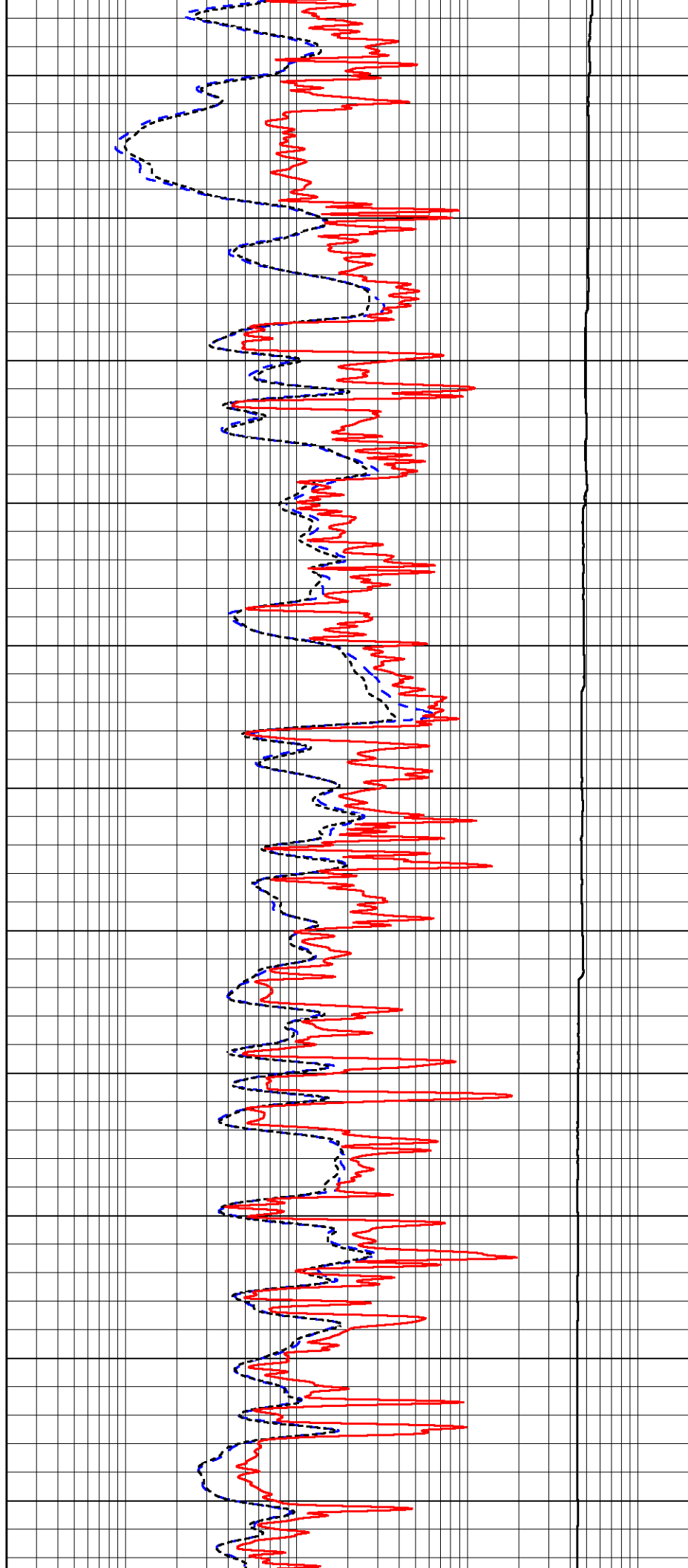
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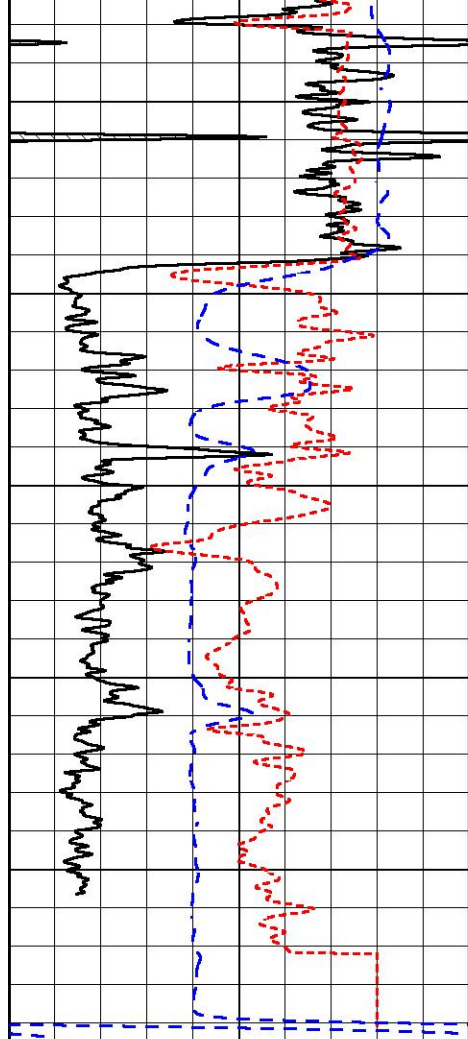
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3100

3150

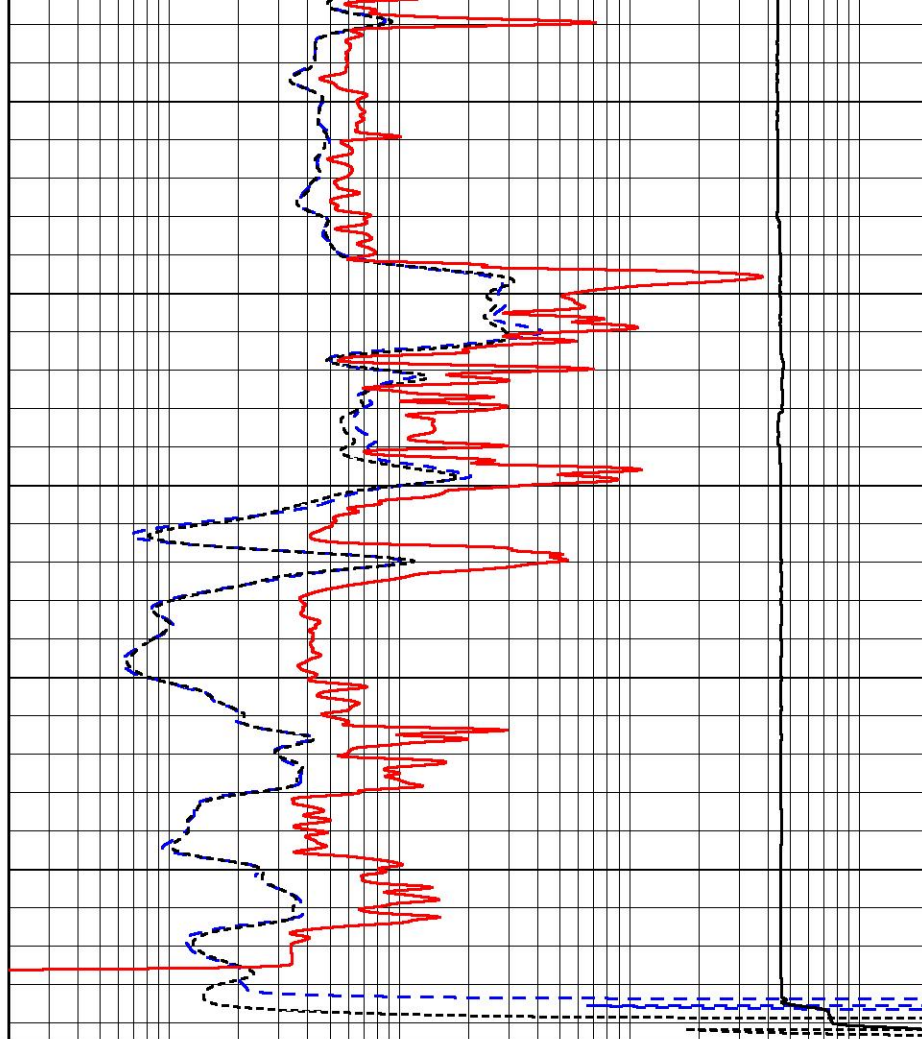
3200





0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

3250
3300
3350
3400
3450



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



MIDWEST WIRELINE

DETAIL SECTION

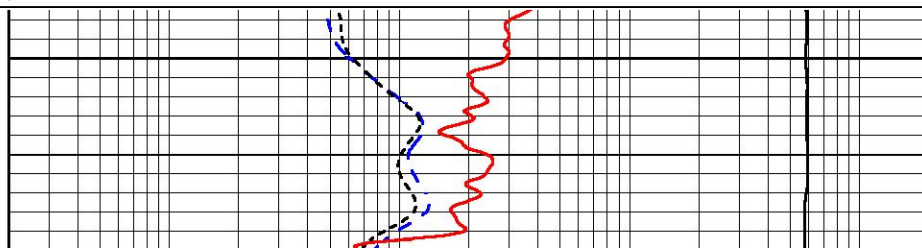
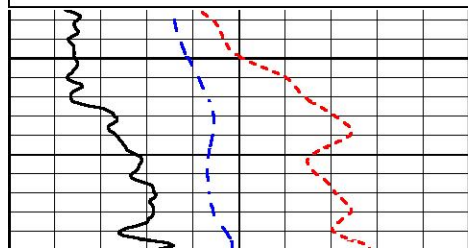
MAIN PASS

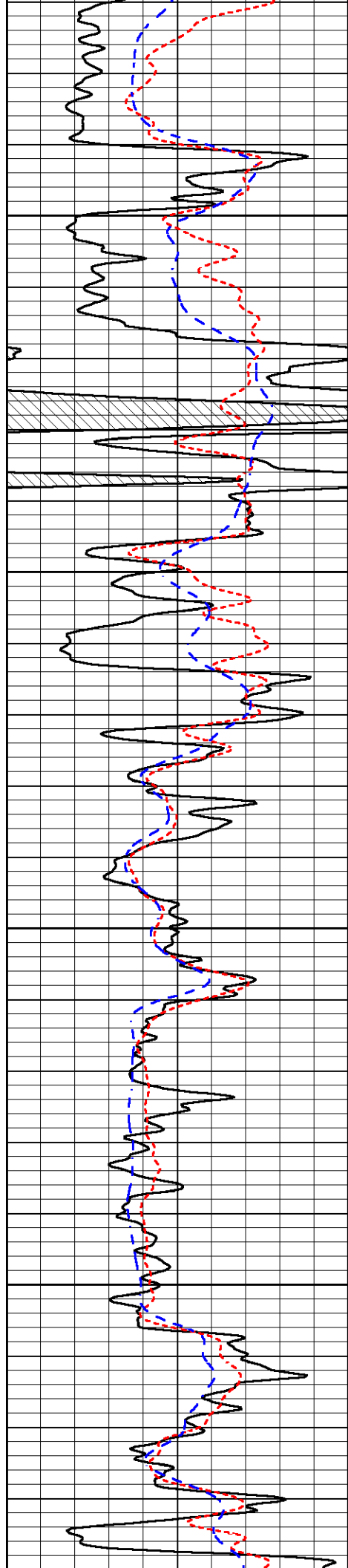
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Dataset Pathname stack/pass3.1
Presentation Format _dil
Dataset Creation Sun Dec 18 13:49:36 2022
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

2300

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



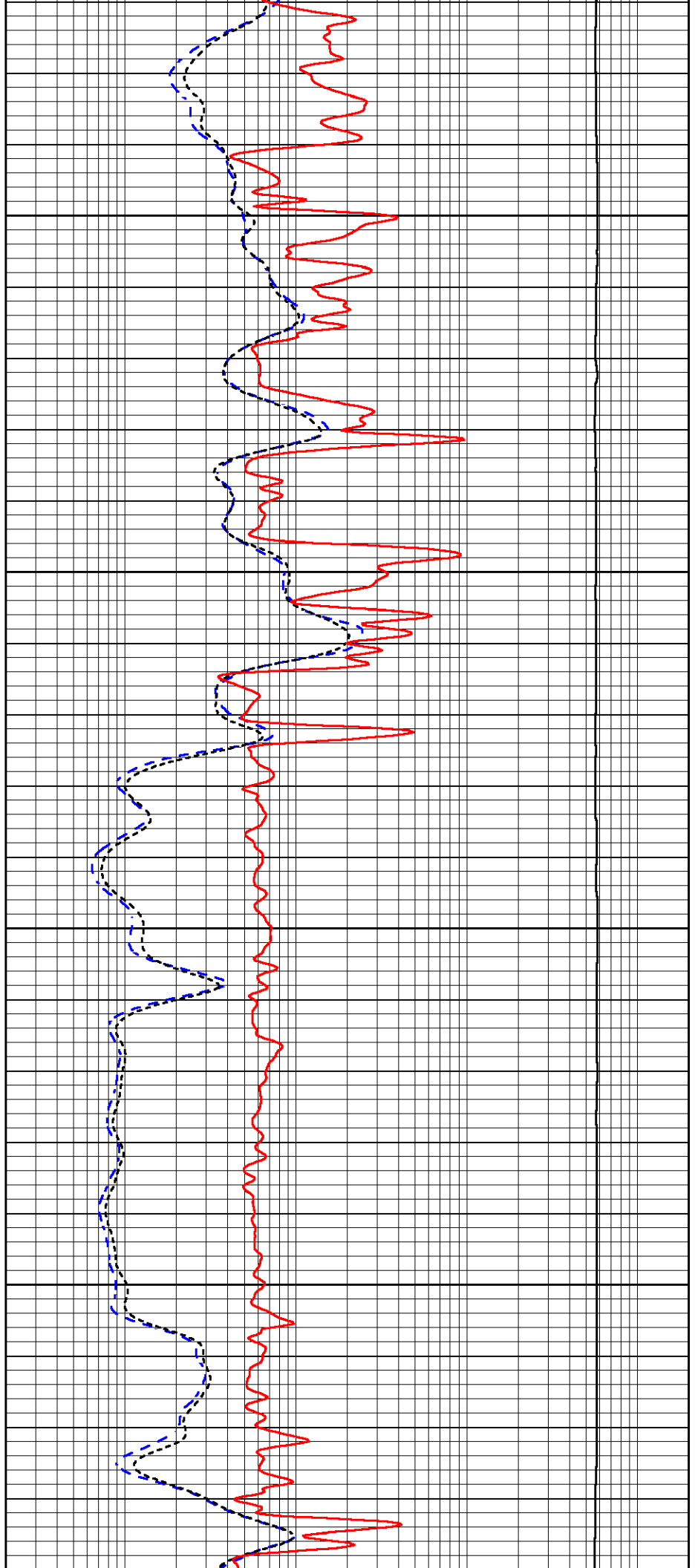


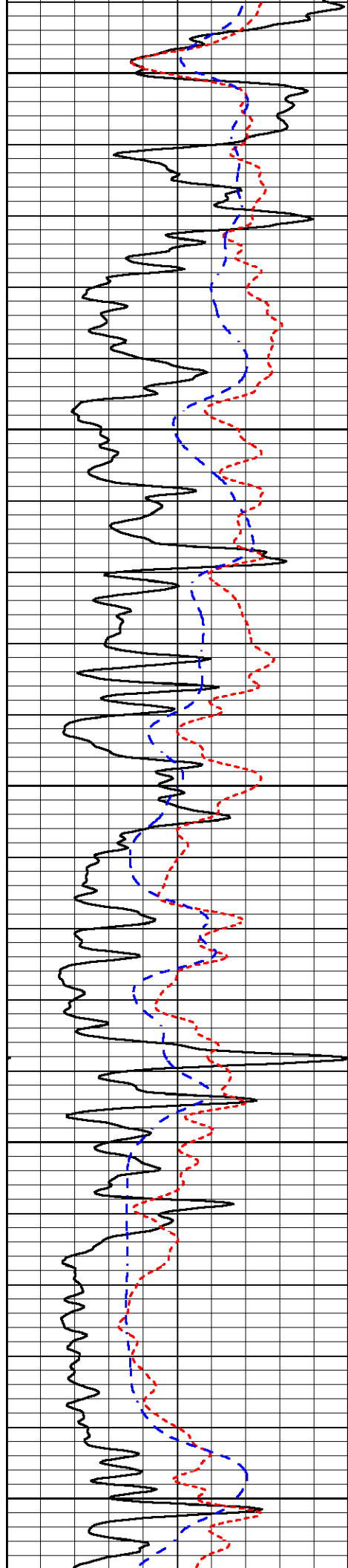
2350

2400

2450

2500





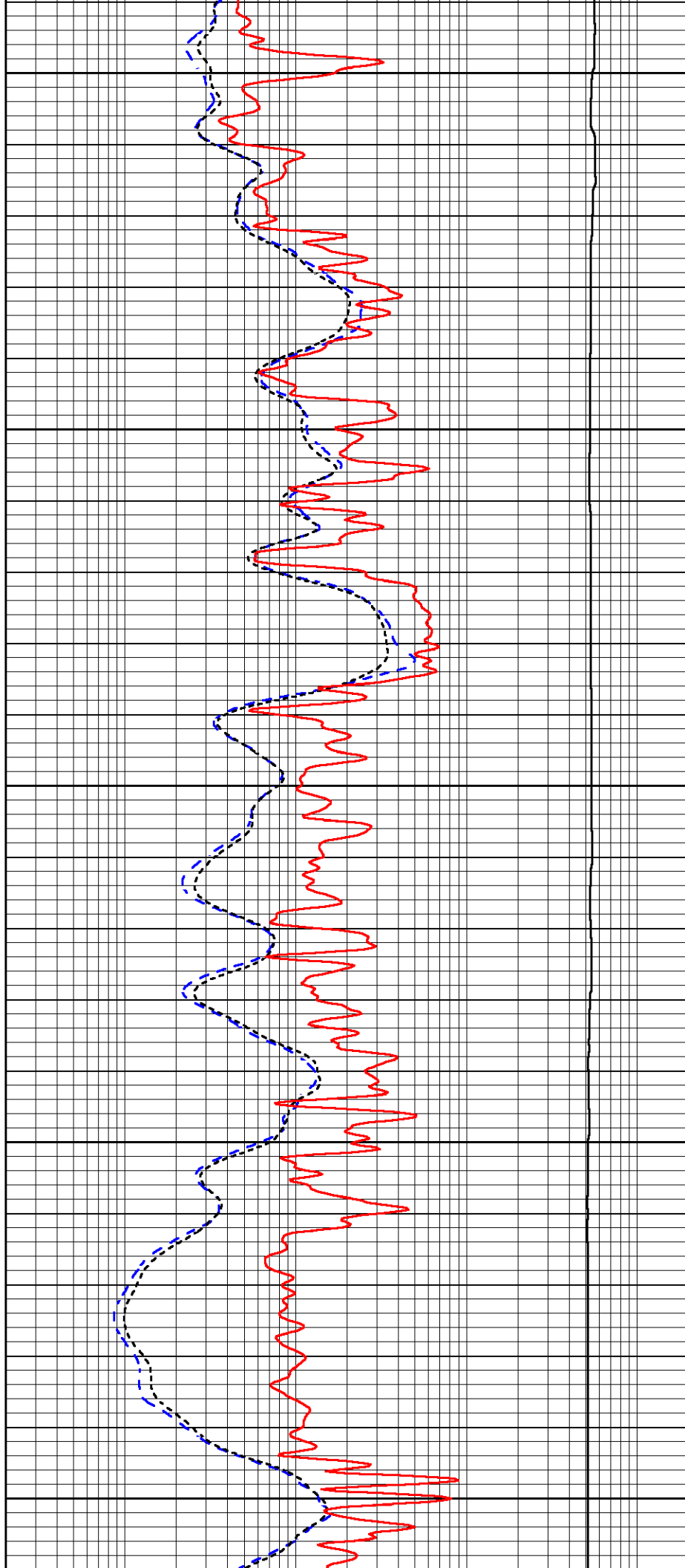
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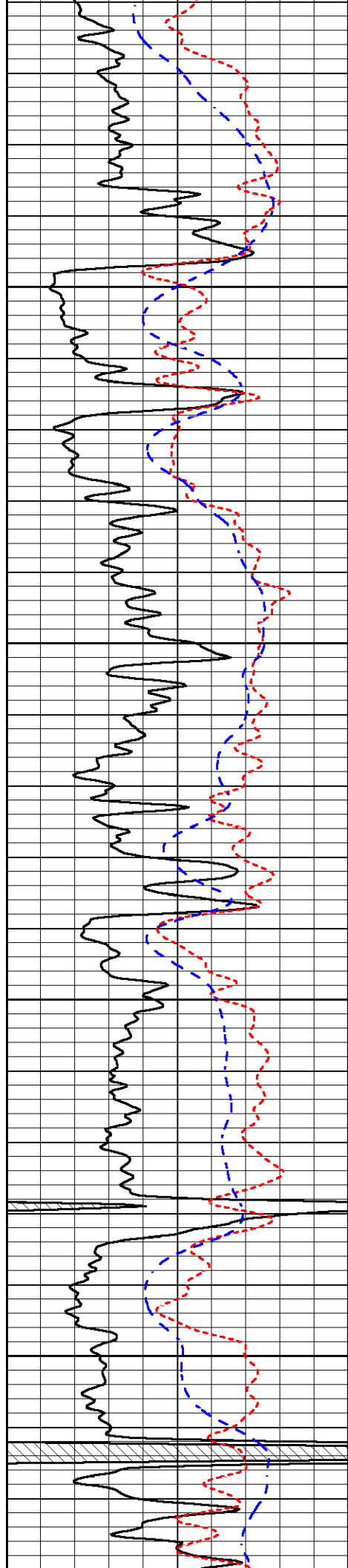
2600

2650

2700

2750



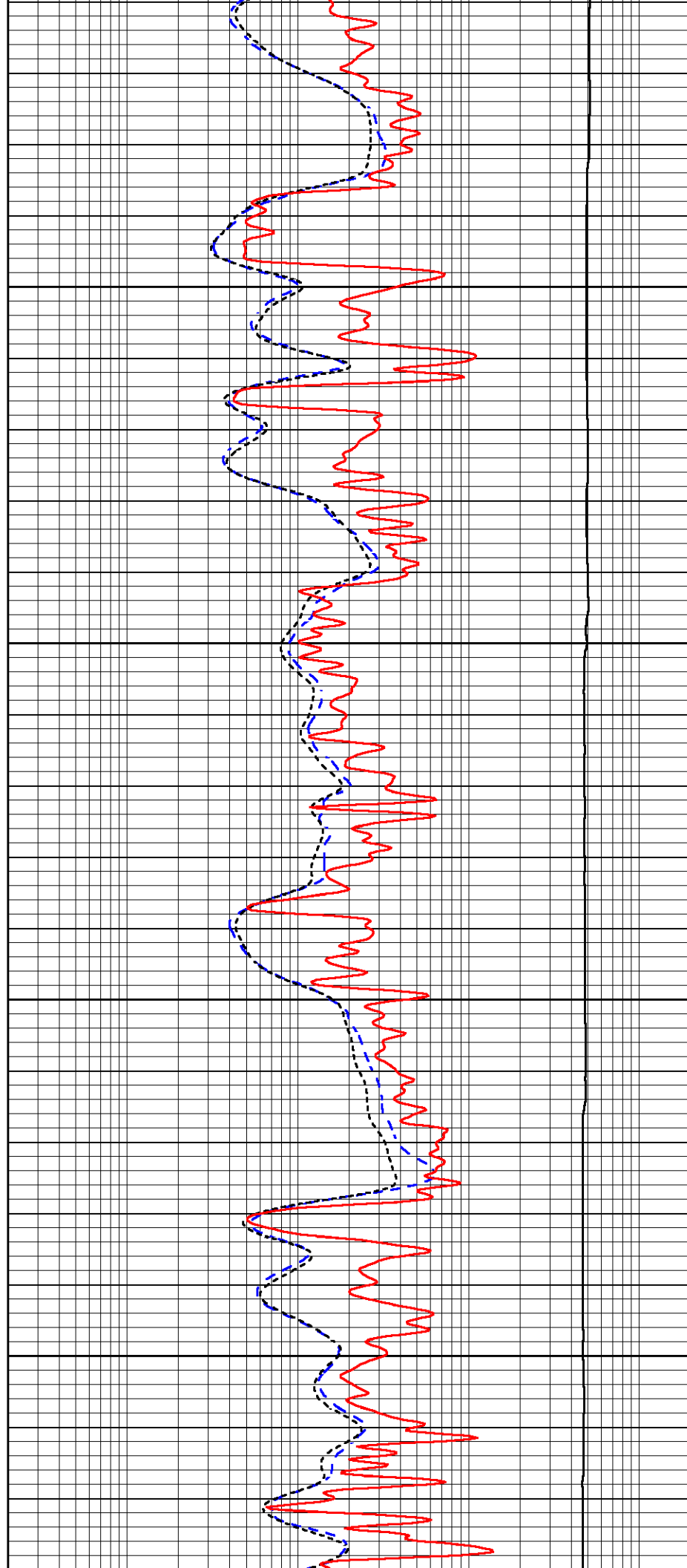


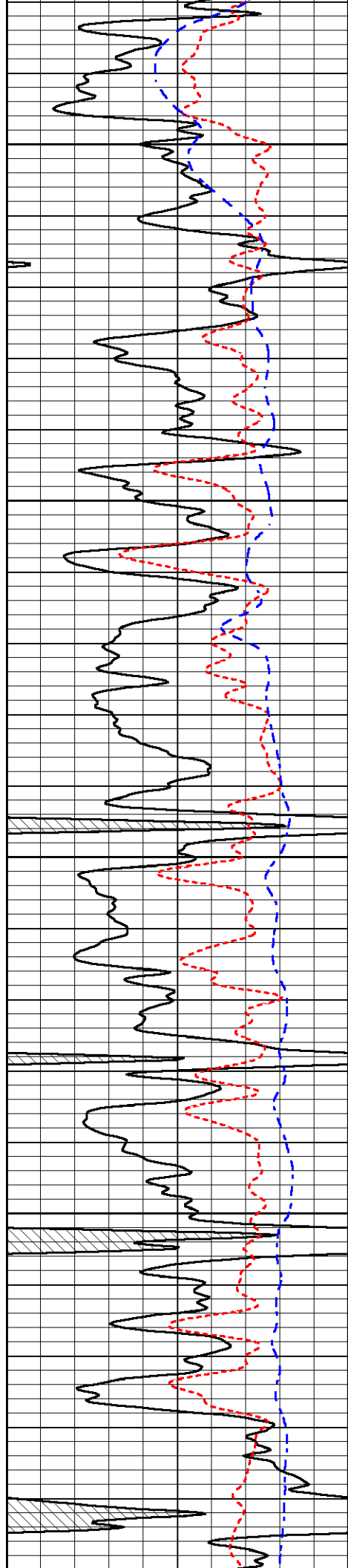
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2850

2900

2950





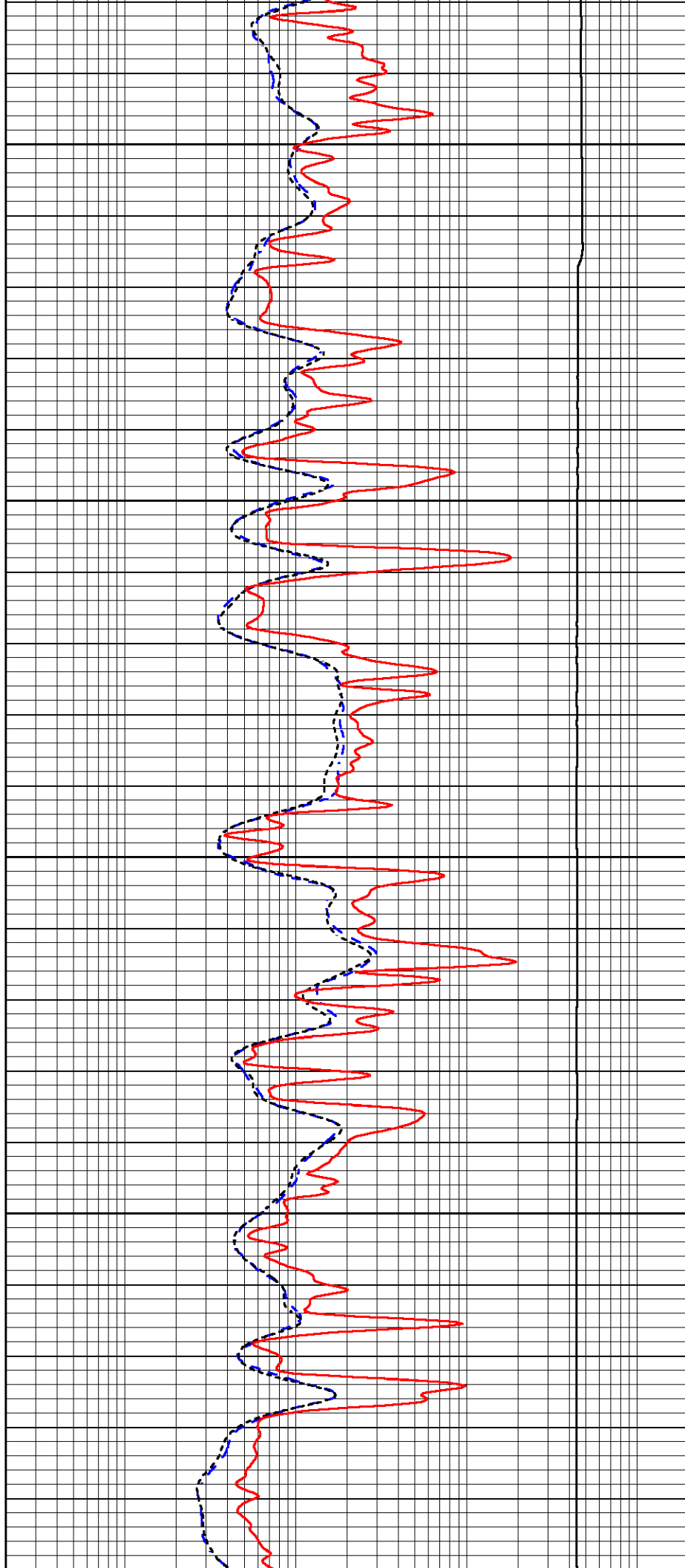
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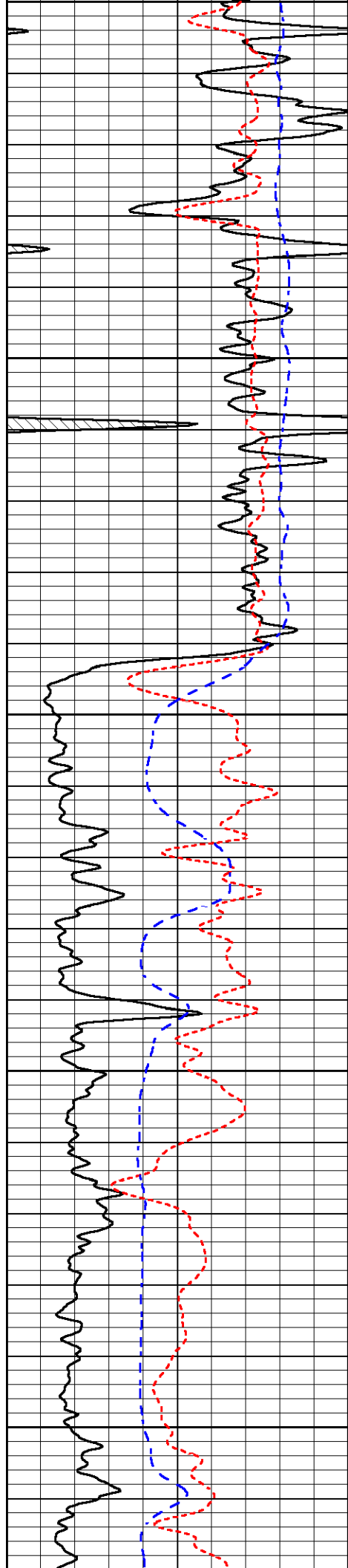
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3100

3150

3200





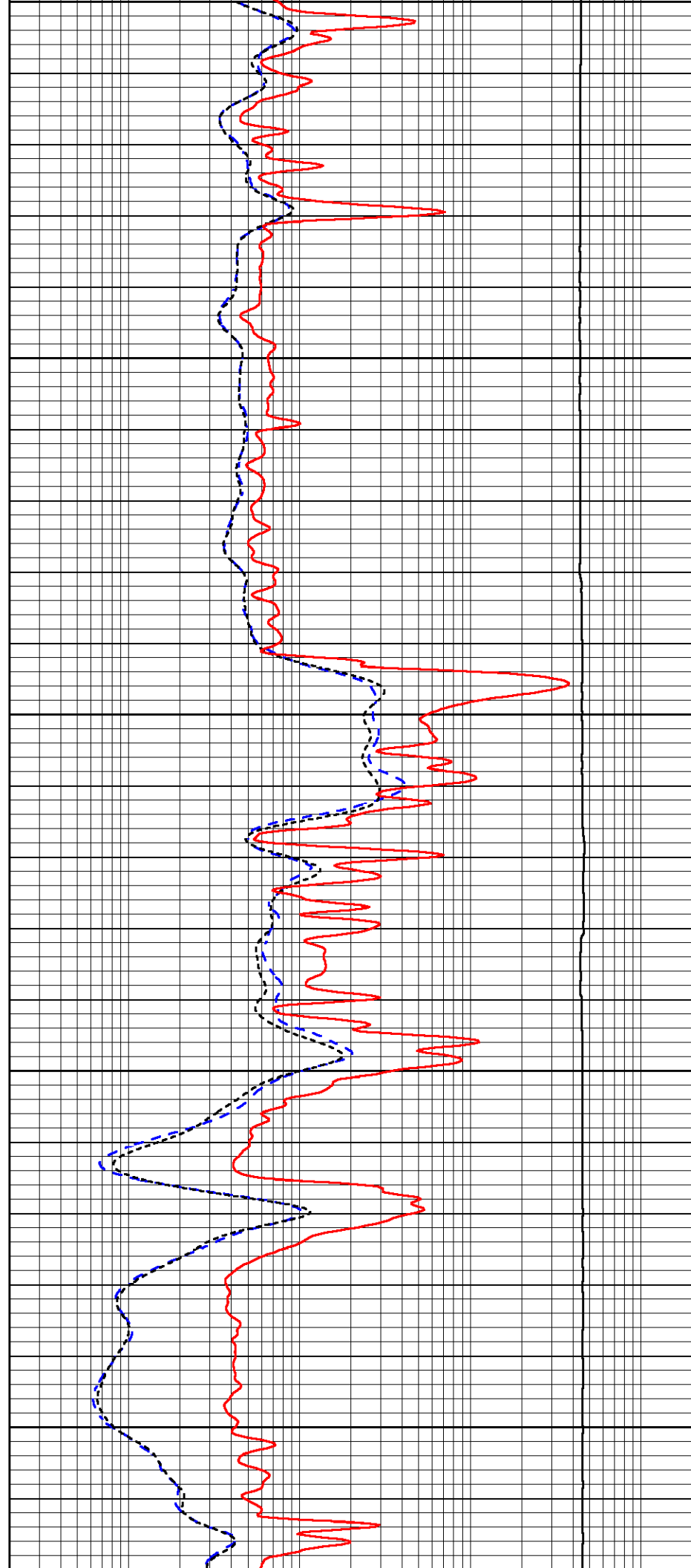
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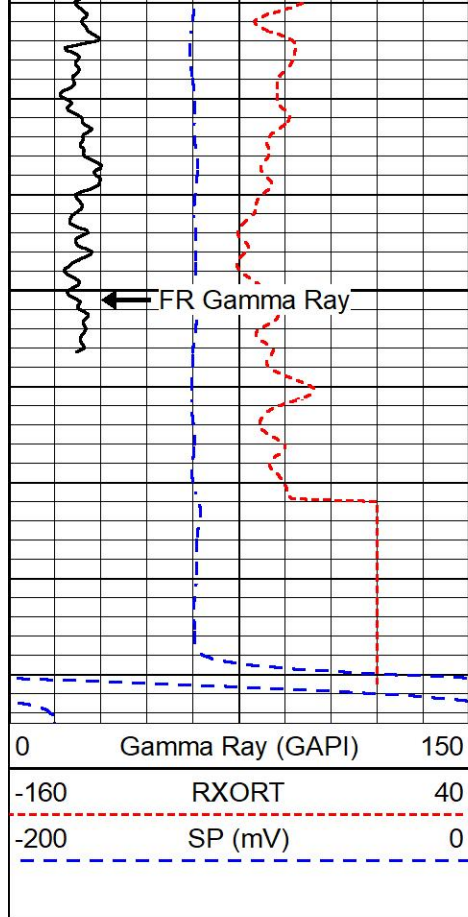
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3300

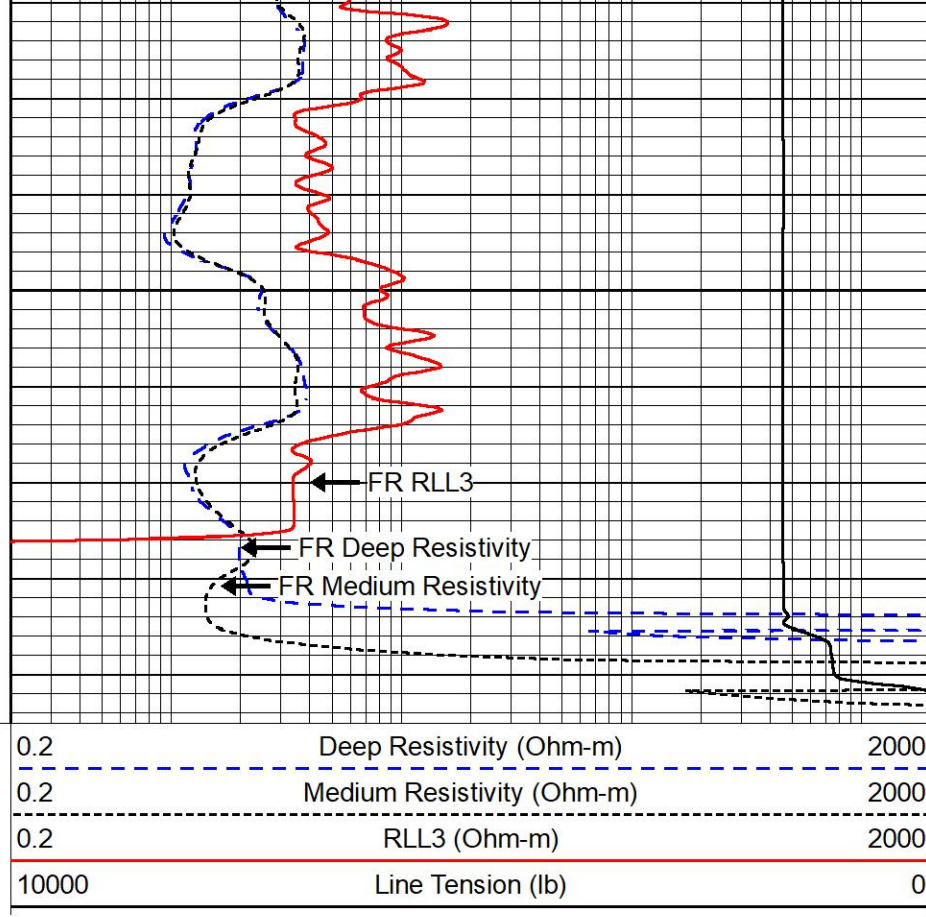
3350

3400





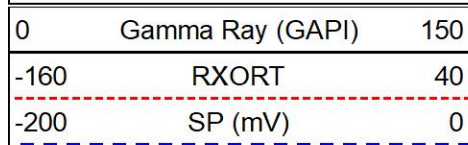
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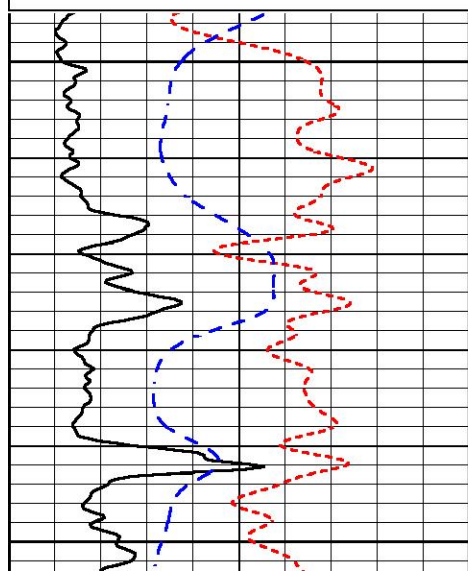
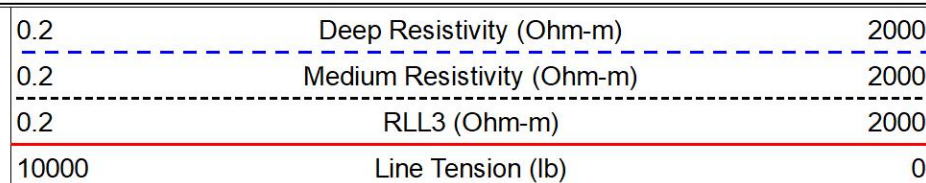
REPEAT SECTION

REPEAT PASS

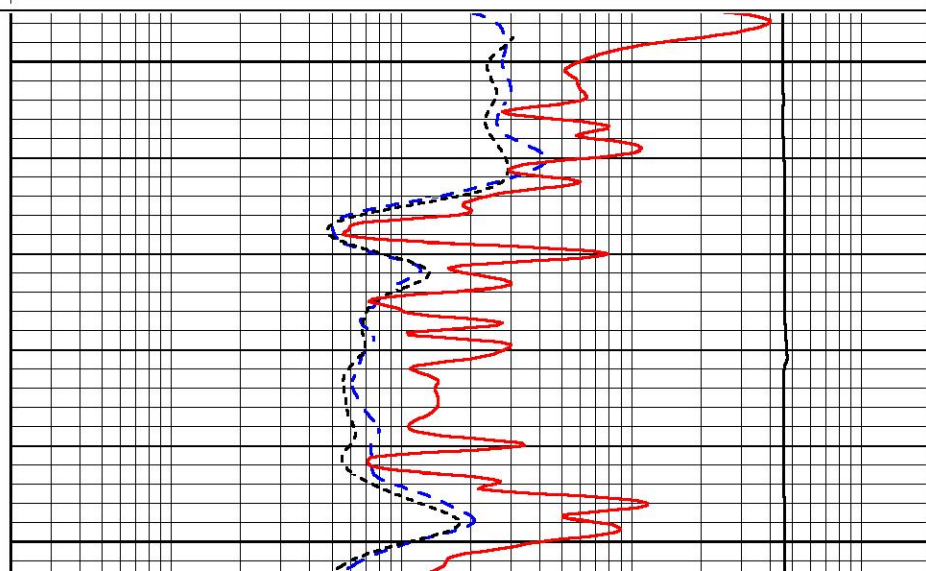
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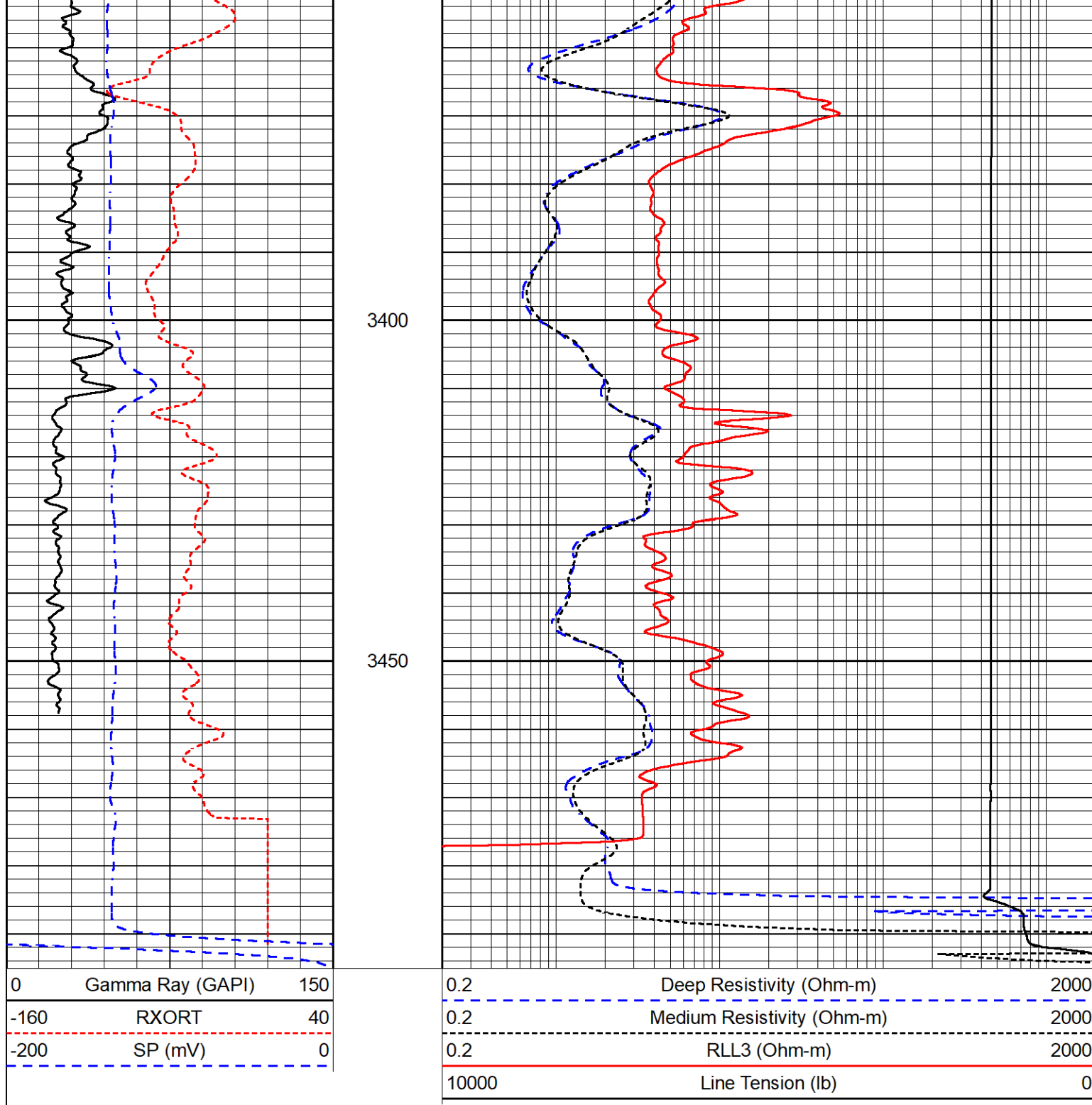


3300



3350





Calibration Report

Database File: ressler_teten b 19.db
 Dataset Pathname: stack/pass3.11
 Dataset Creation: Sun Dec 18 13:16:04 2022

Dual Induction Calibration Report

Serial-Model: 505 HT-M&W
 Surface Cal Performed: Mon Nov 14 06:05:40 2022

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	167.000	835.000	0.000	255.800	mmho/m	0.480	-50.000

Deep	107.000	633.000	0.000	233.000	mmho/m	0.400	30.000
Medium	1348.000	1348.000	0.000	255.800	mmho/m	0.390	-42.000

Compensated Density Calibration Report

Serial-Model: 303-03-M&W
 Source #: 21170B
 Master Calibration Performed: Mon Oct 17 15:14:24 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.640	g/cc	700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.498		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.04		

Compensated Neutron Calibration Report

Serial-Model: 210-M&W
 Source #: N-1238
 Master Calibration Performed: Fri Dec 3 09:16:24 2021

Master 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: 103
 Tool Model: M&W
 Performed: Fri Dec 3 12:13:24 2021
 Calibrator Value: 500.0 GAPI
 Background Reading: 28.0 cps
 Calibrator Reading: 986.0 cps
 Sensitivity: 0.5700 GAPI/cps



Company: Ressler Well Service, Inc.
 Well: Teten B #19
 Field: Burrton
 County: Reno
 State: Kansas