



MIDWEST WIRELINE

DUAL INDUCTION
LOG

Company American Warrior, Inc.		Company American Warrior, Inc.	
Well	Hubin B #1-15	Well	Hubin B #1-15
Field	N/A	Field	N/A
County	Hodgeman	County	Hodgeman
State	Kansas	State	Kansas
Location: API #: 15-083-21985-00-00		Other Services	
SEC 15 TWP 23S RGE 23W		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	2338'
Log Measured From	Kelly Bushing	K.B.	2351'
Drilling Measured From	Kelly Bushing	D.F.	N/A
		G.L.	2338'
Date	4/20/2021		
Run Number	One		
Depth Driller	4900'		
Depth Logger	4901'		
Bottom Logged Interval	4900'		
Top Log Interval	250'		
Casing Driller	8.625" @ 268'		
Casing Logger	266'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5700		
Density / Viscosity	9.45 50		
pH / Fluid Loss	11.0 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 60		
Rmt @ Meas. Temp	0.30 @ 60		
Rmc @ Meas. Temp	0.54 @ 60		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.19 @ 125		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	125		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Kevin Timson		

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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.

Jetmore,
1 East to 119 Rd,
2 South to K Rd, 2 East,
South into

Log Measured From: Kelly Bushing13 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew		This Log Record Was Witnessed By	
Engineer: D. Schmidt		Primary Witness: Kevin Timson	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\american warrior_hubin 1-15.db
Dataset field/well/stkml/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	125	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	420	40		4901

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

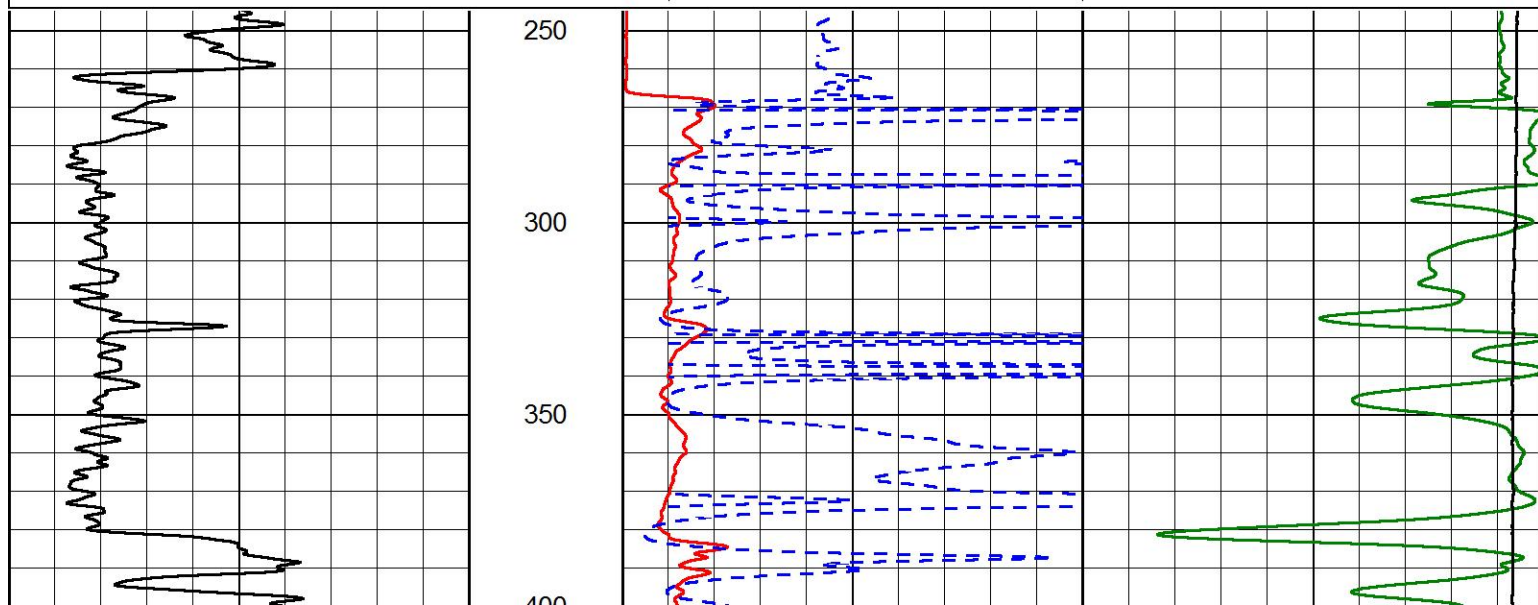


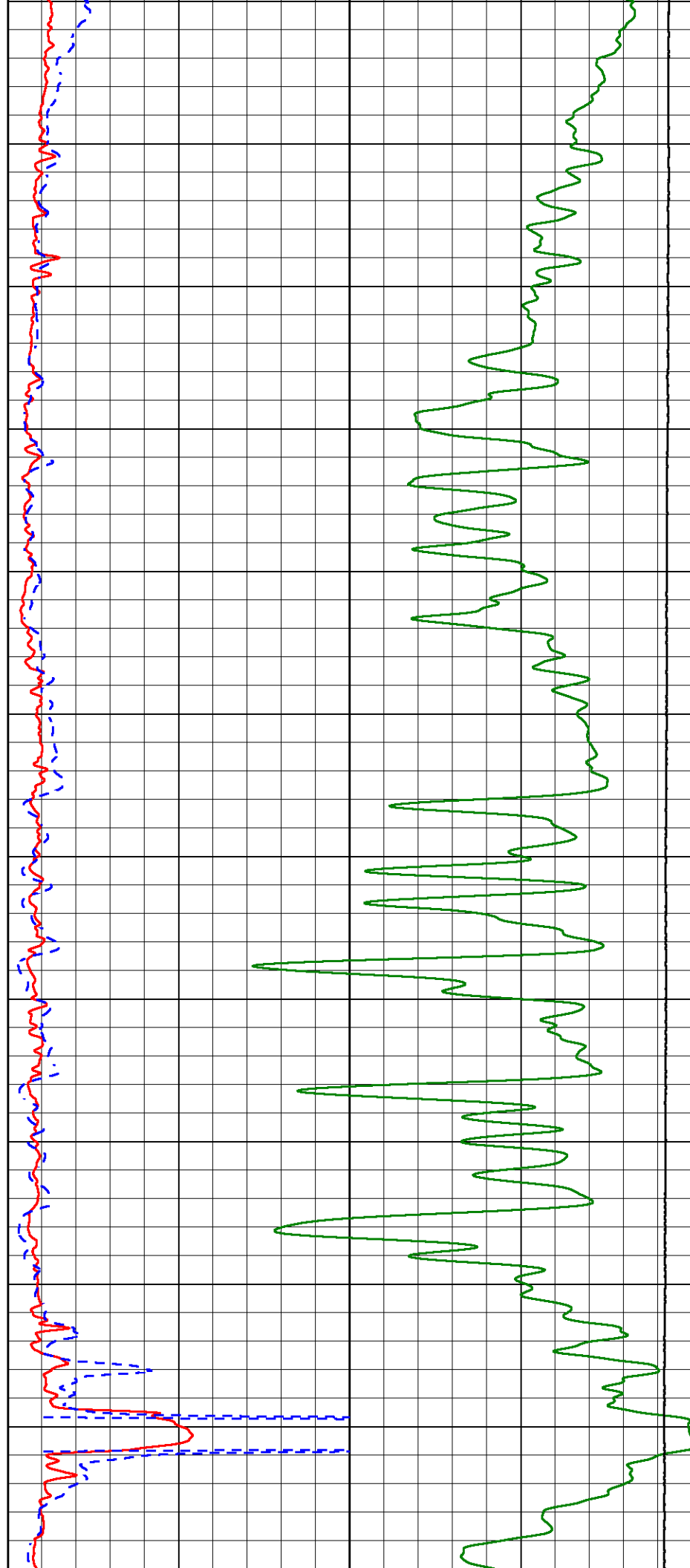
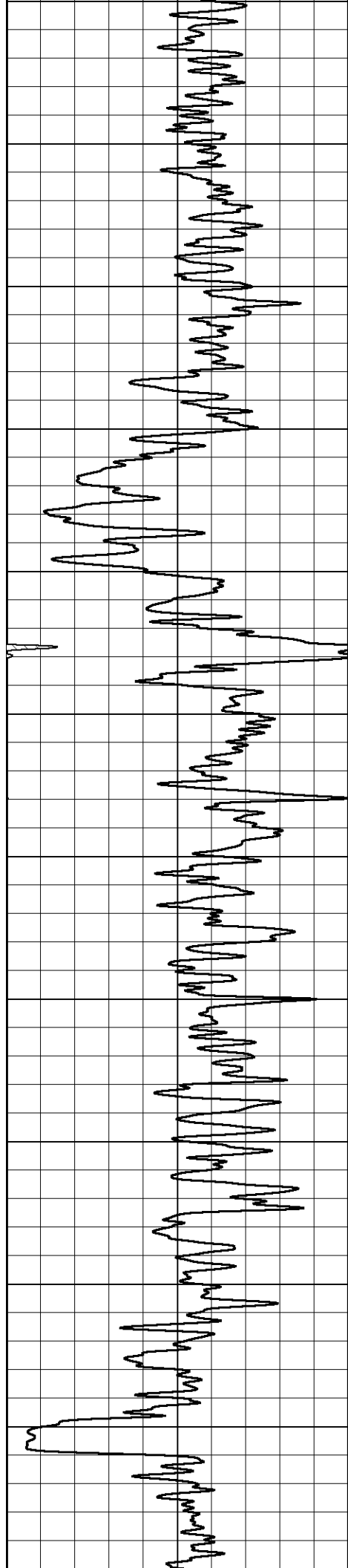
2" SCALE RESISTIVITY

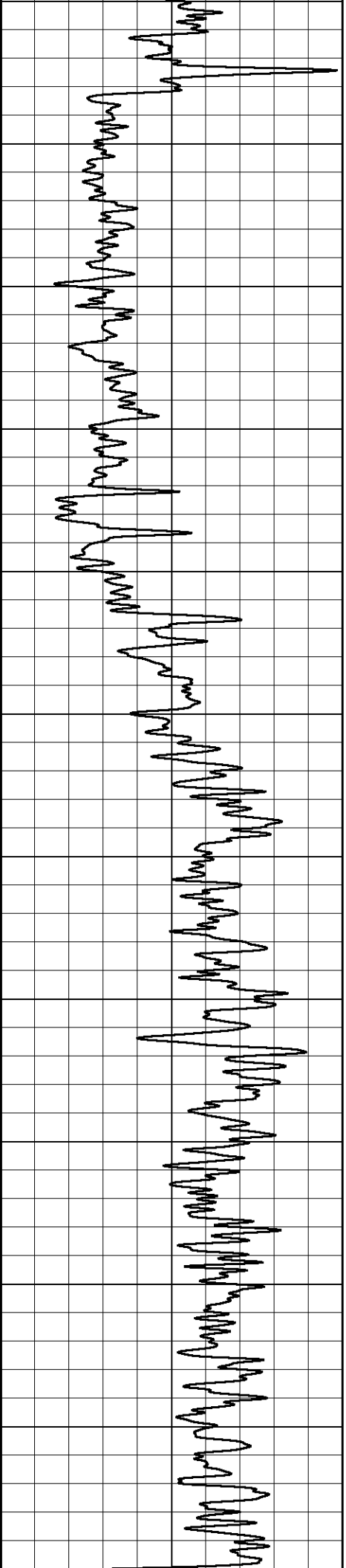
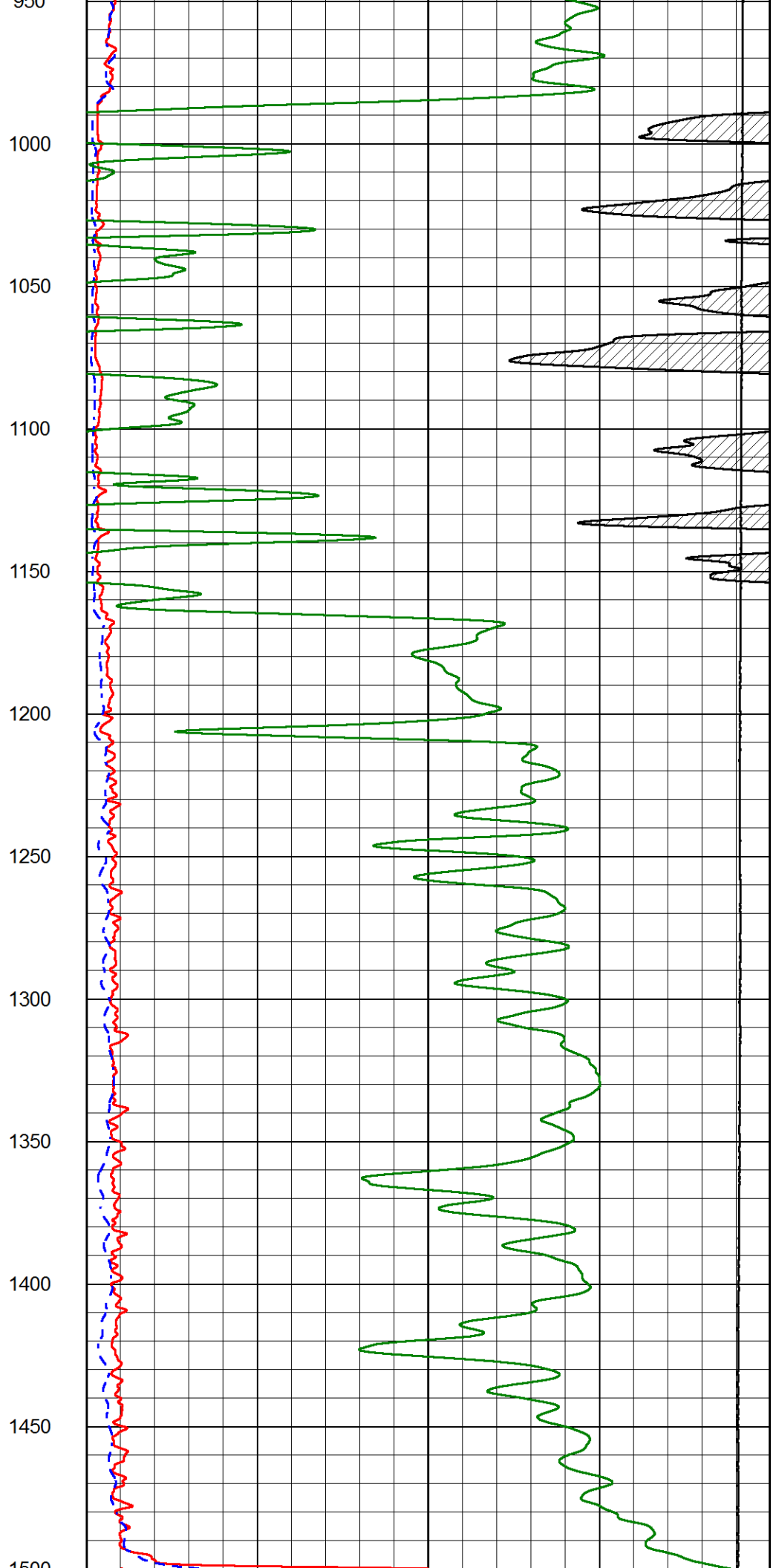
MAIN PASS

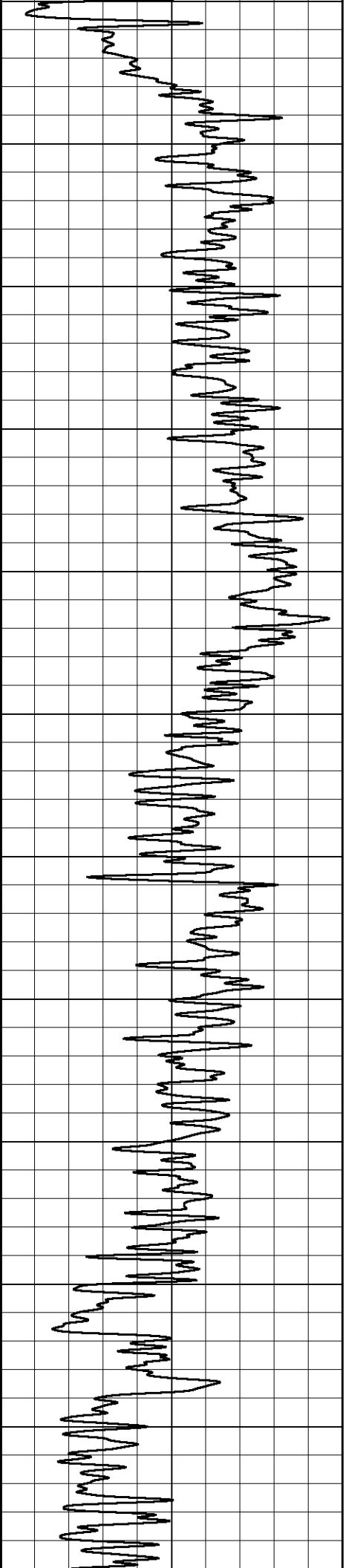
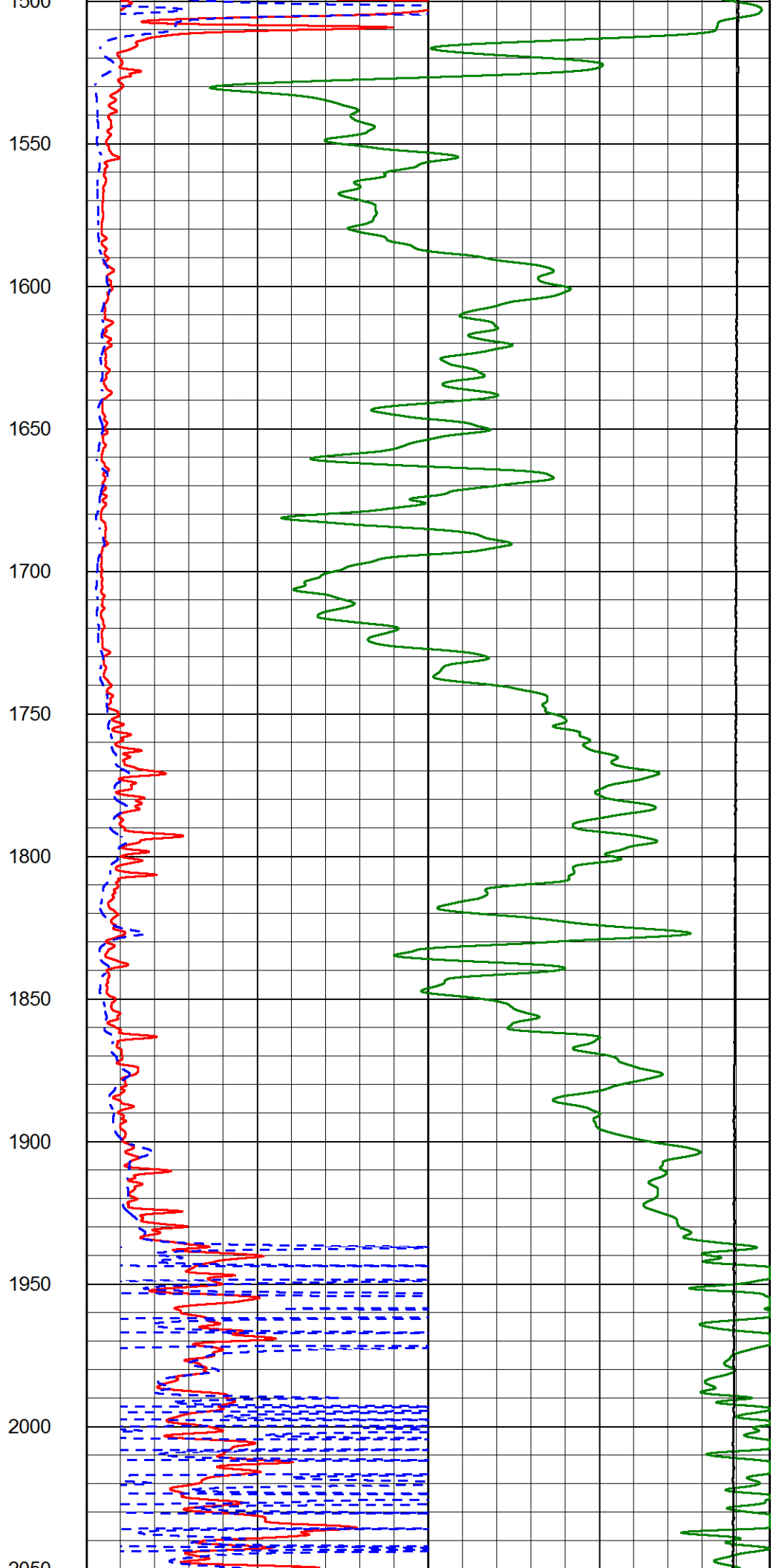
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Presentation Format _dil2in
Dataset Creation Tue Apr 20 14:39:14 2021
Charted by Depth in Feet scaled 1:600

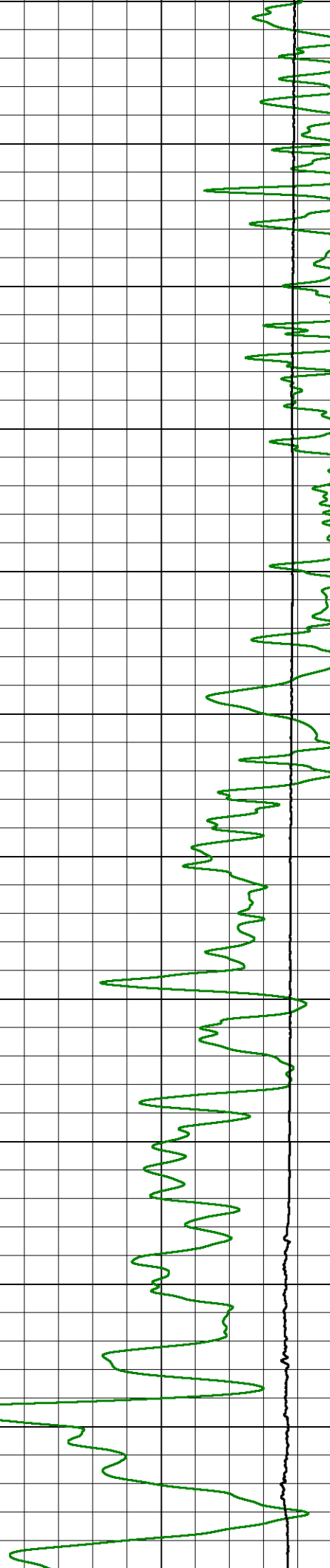
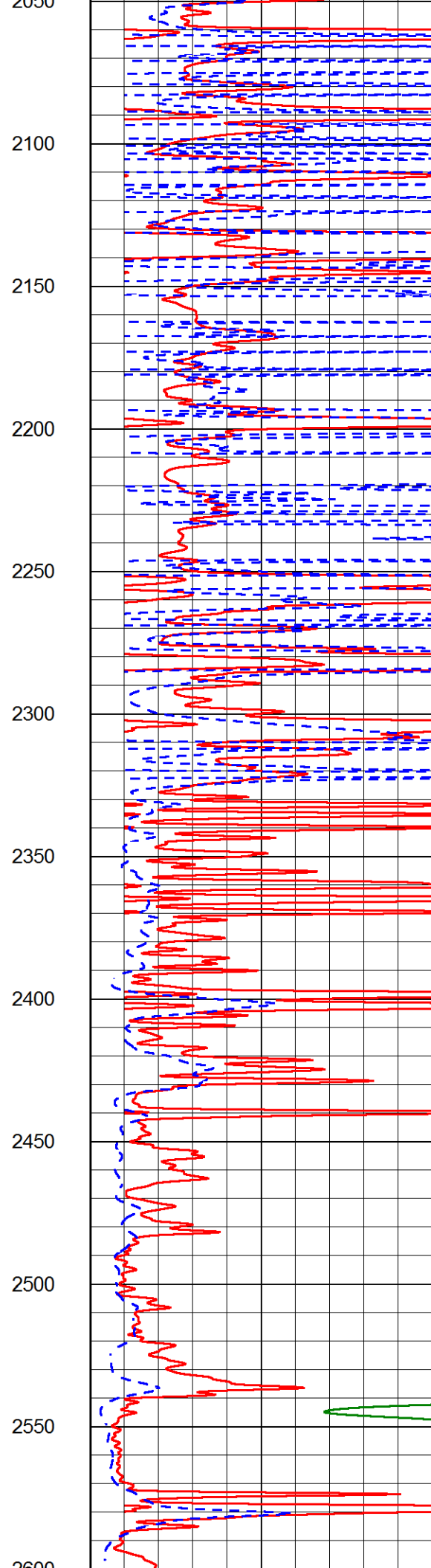
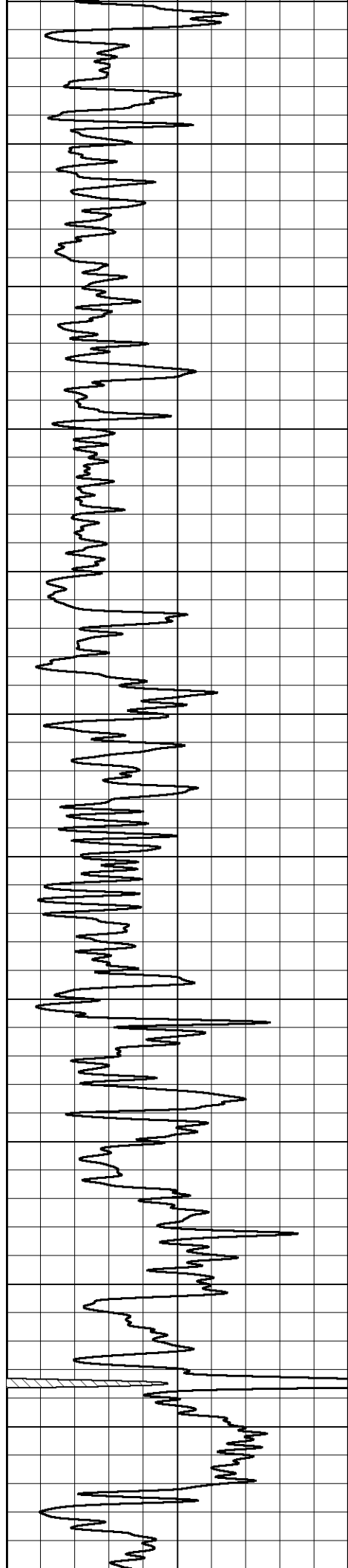
0	(GAPI)	150	1000	CONDUCTIVITY (mmho/m)	0
			15000	Line Tension (lb)	0
			0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RLL3 (Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

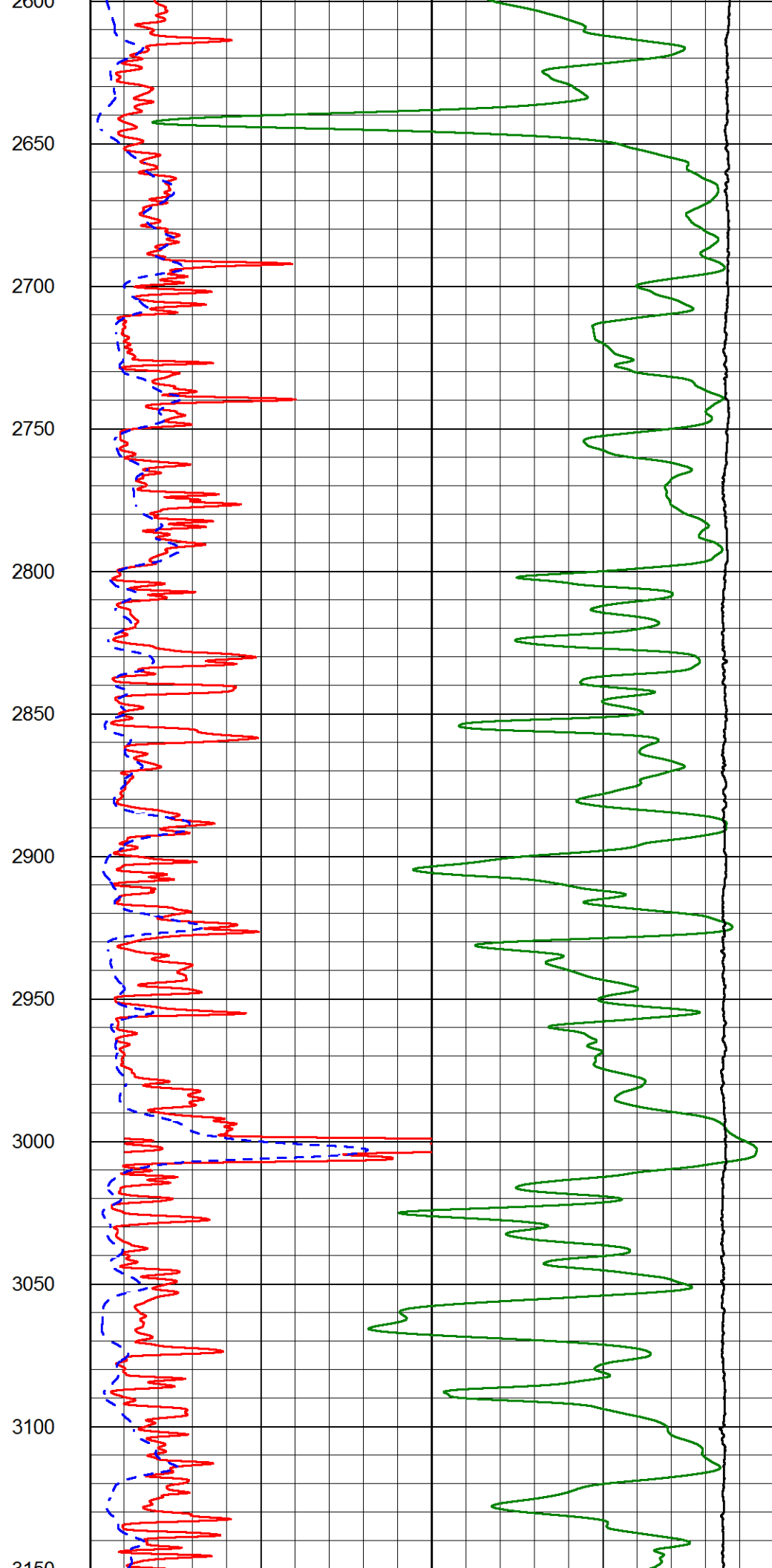
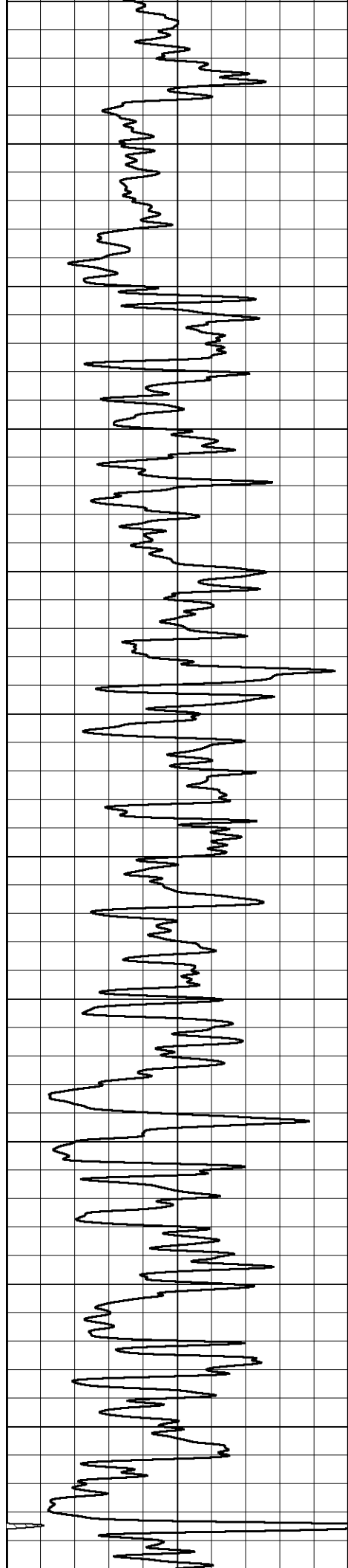


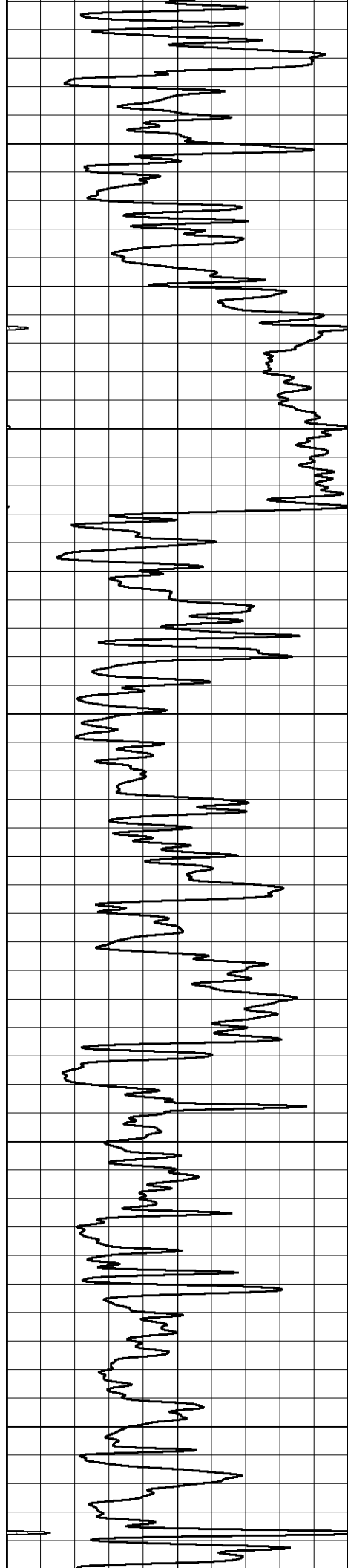




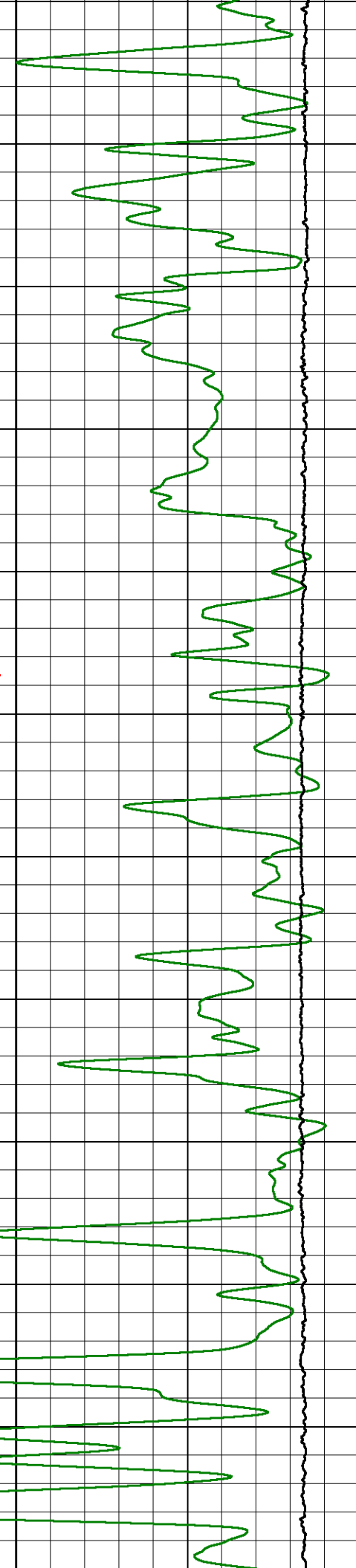
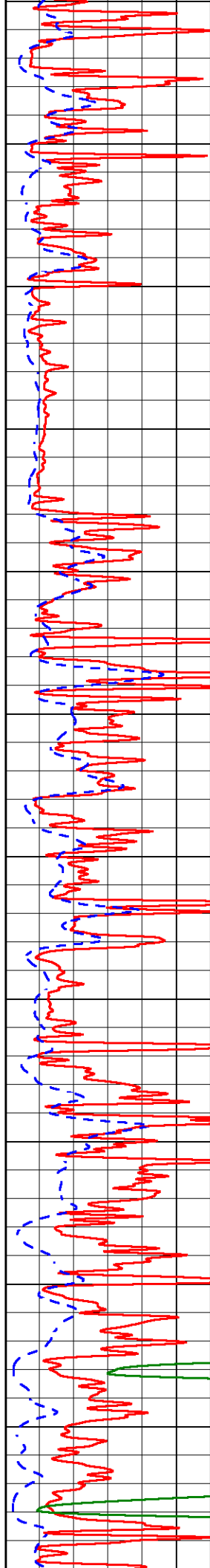


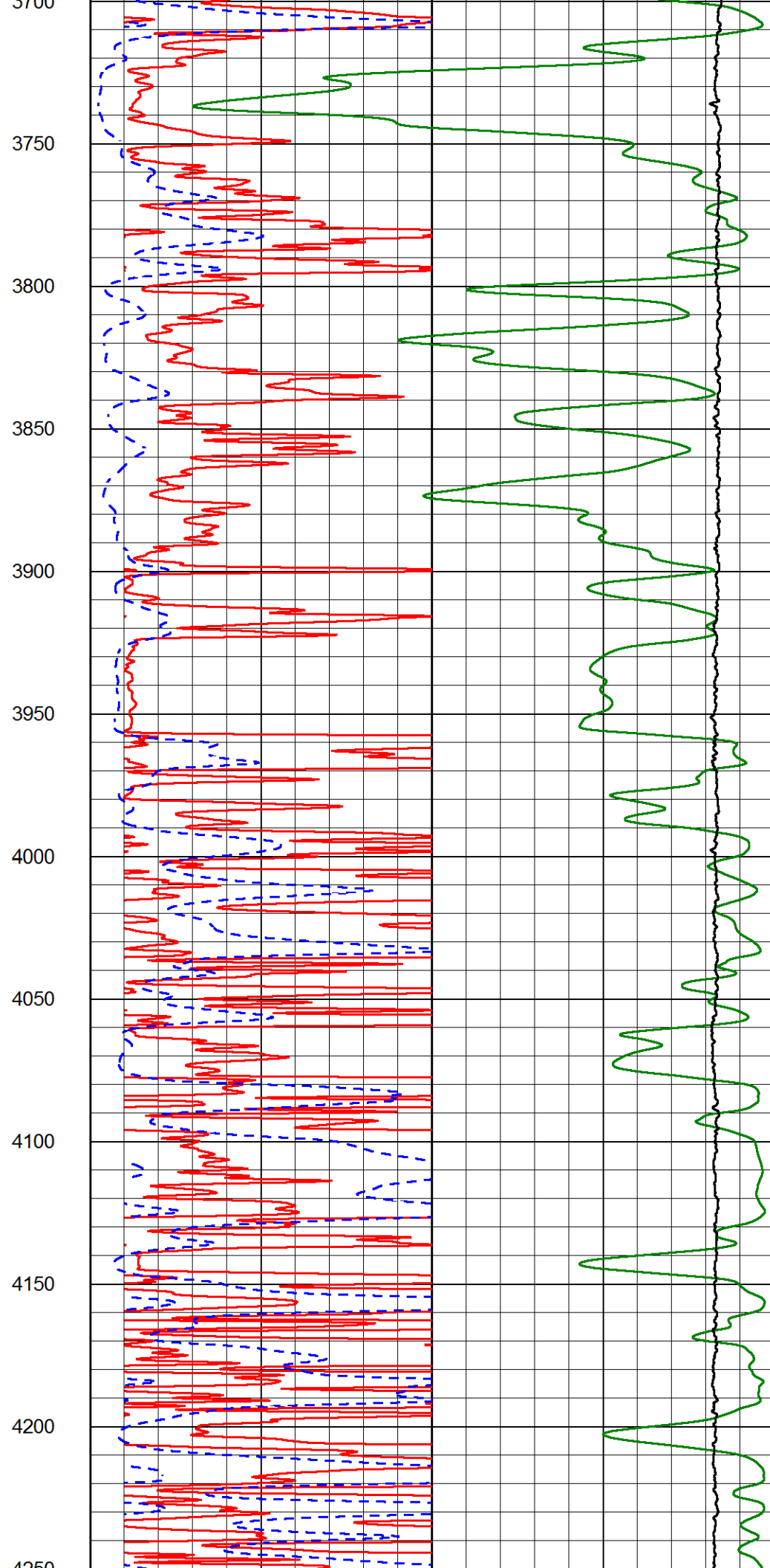
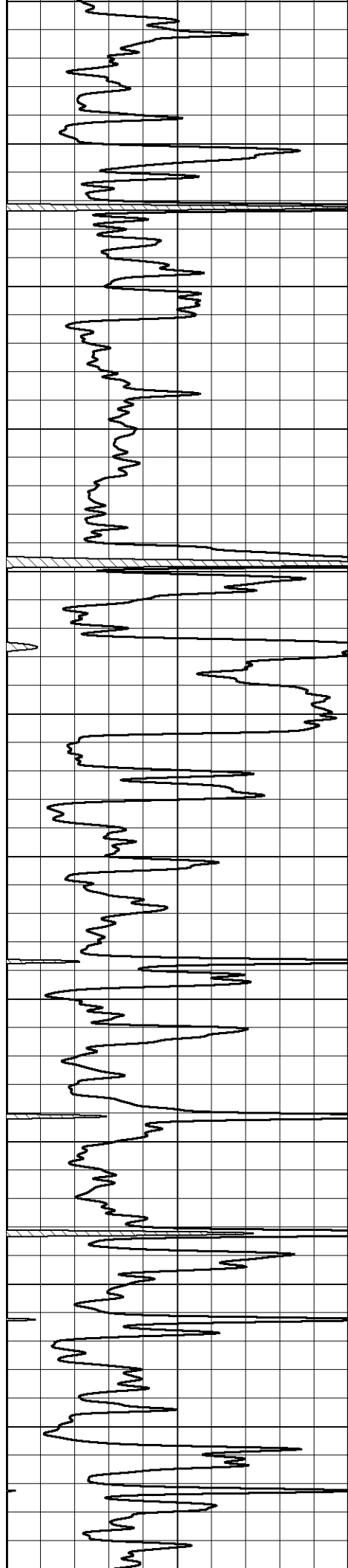


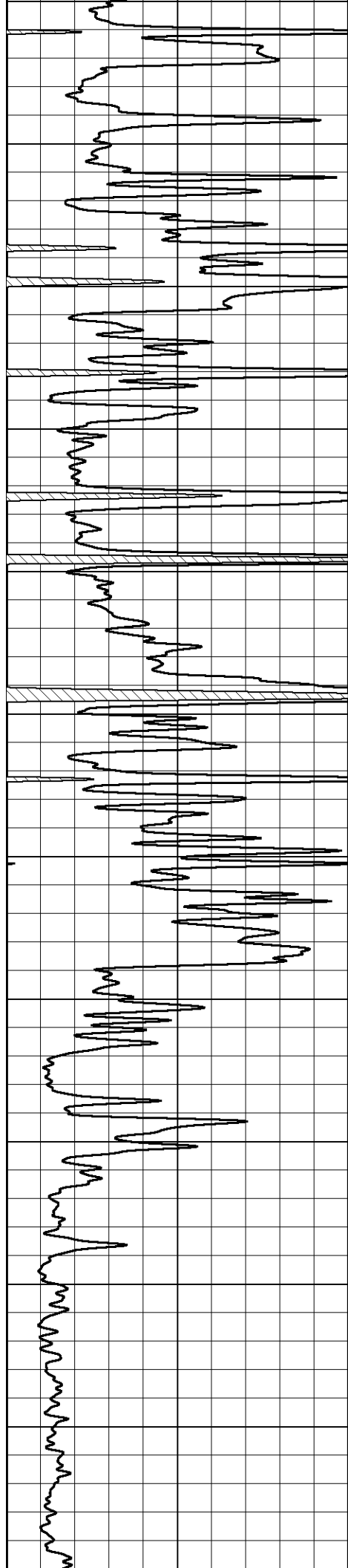




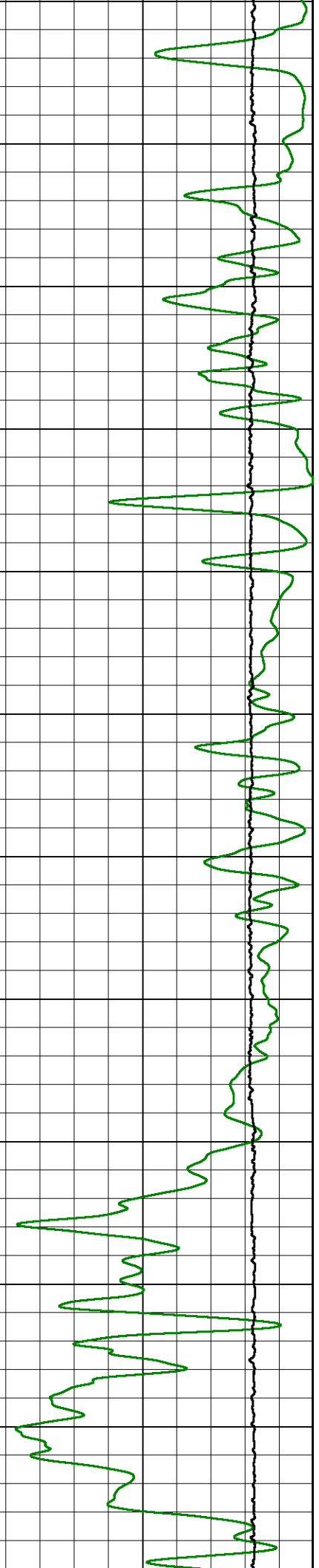
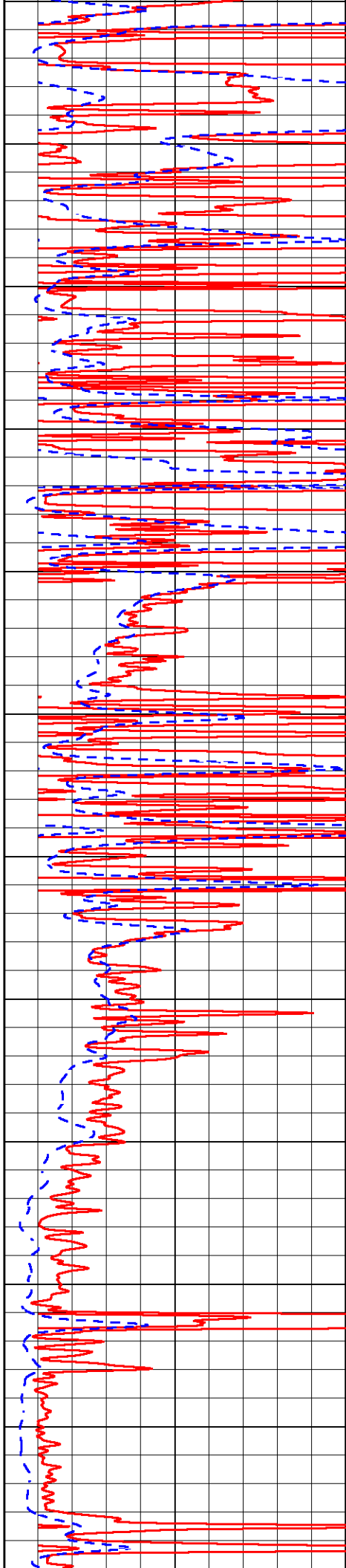
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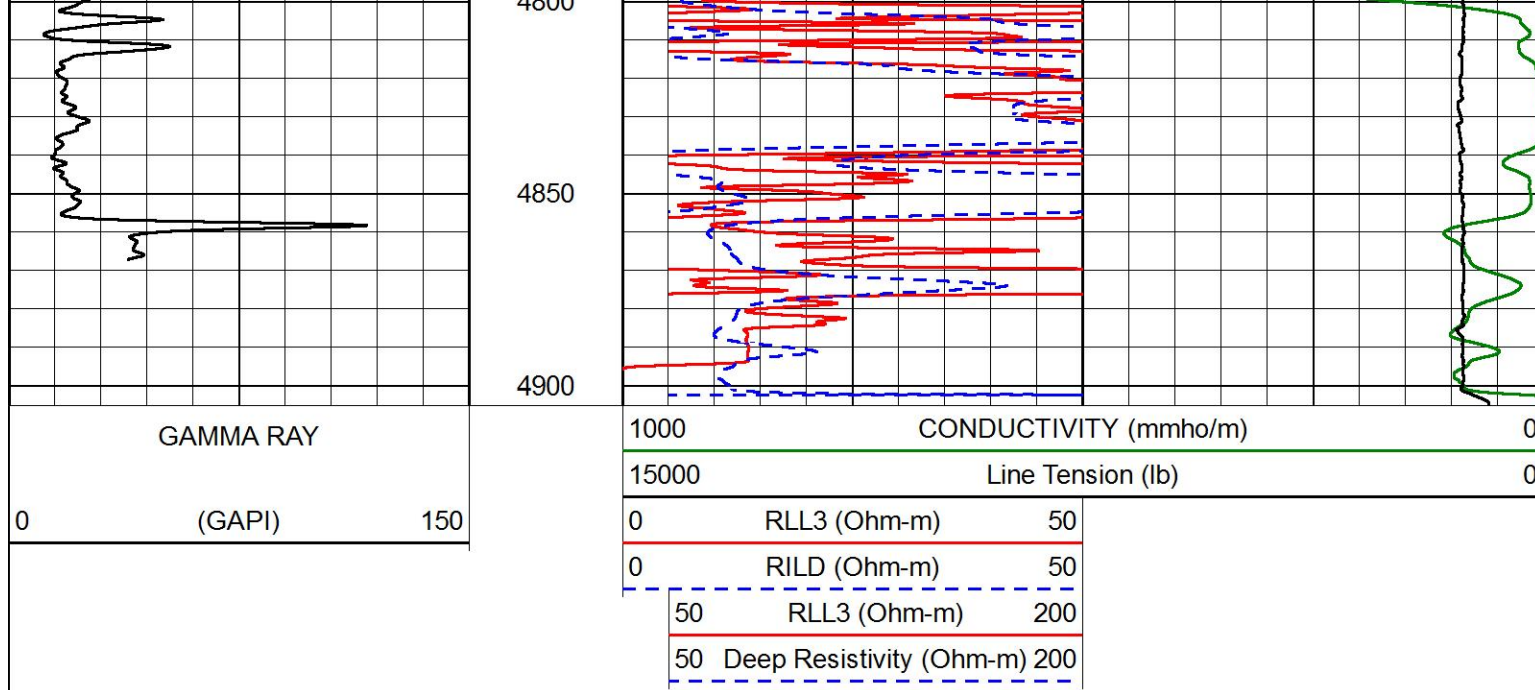






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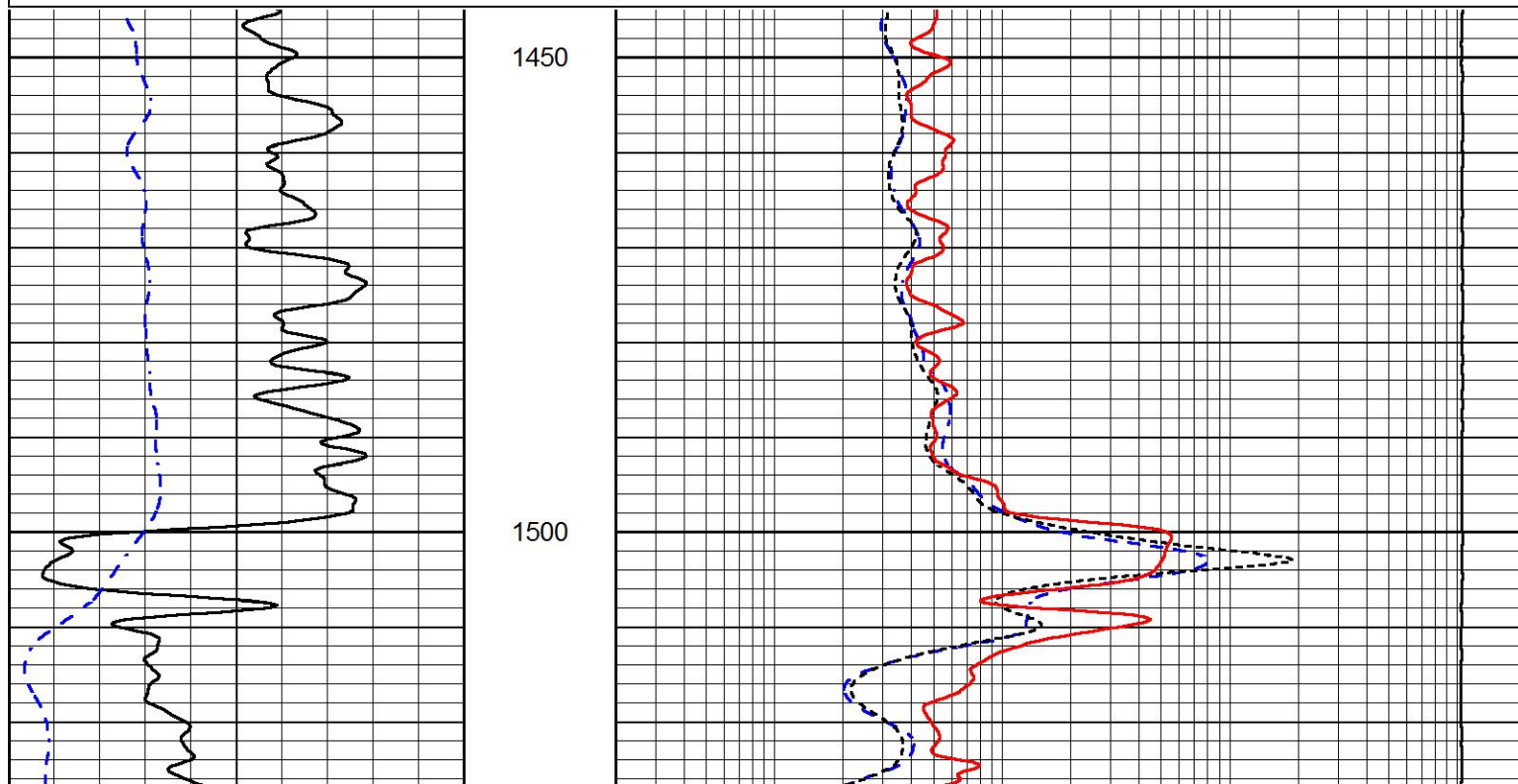


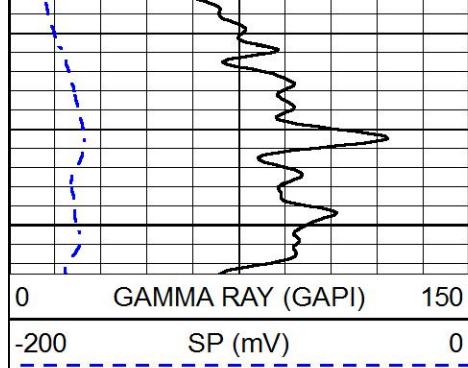
ANHYDRITE SECTION

MAIN PASS

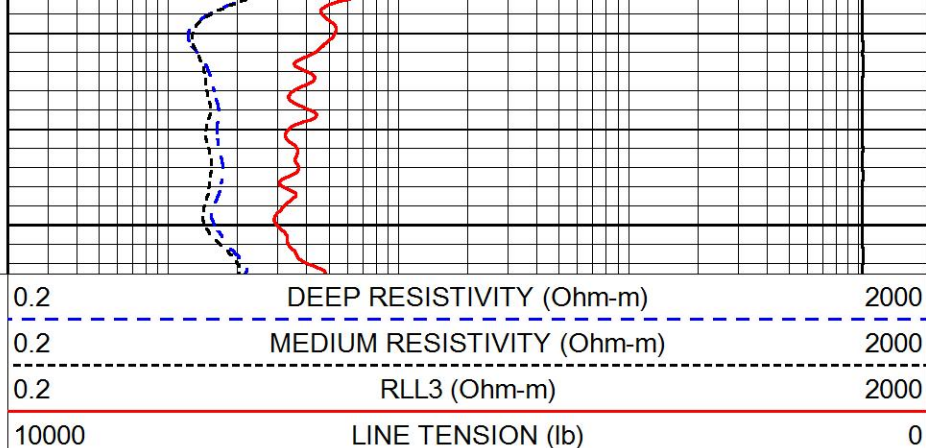
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 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	DEEP RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			10000	LINE TENSION (lb)	0



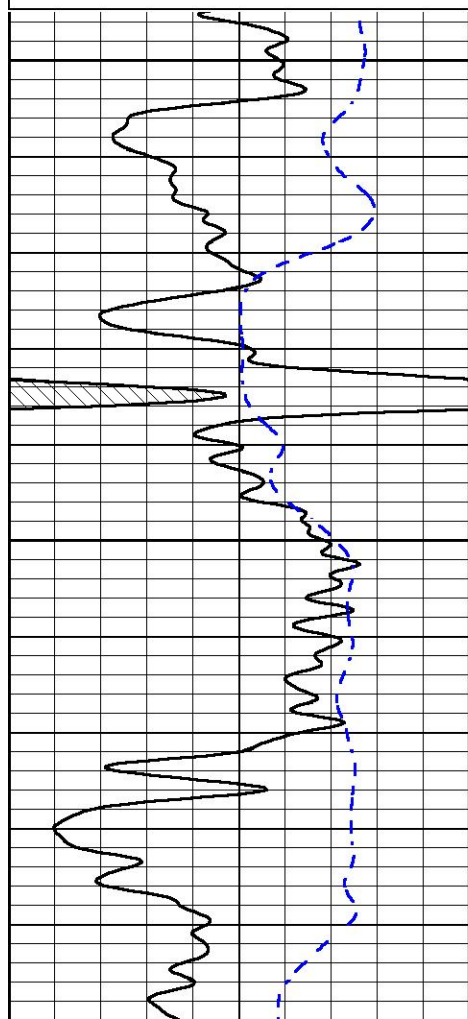
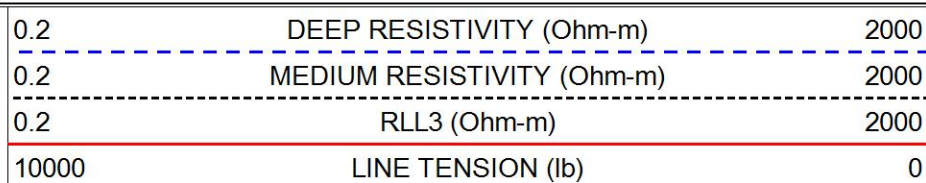
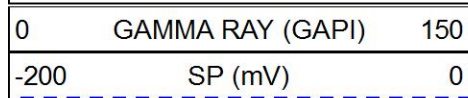


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MAIN PASS

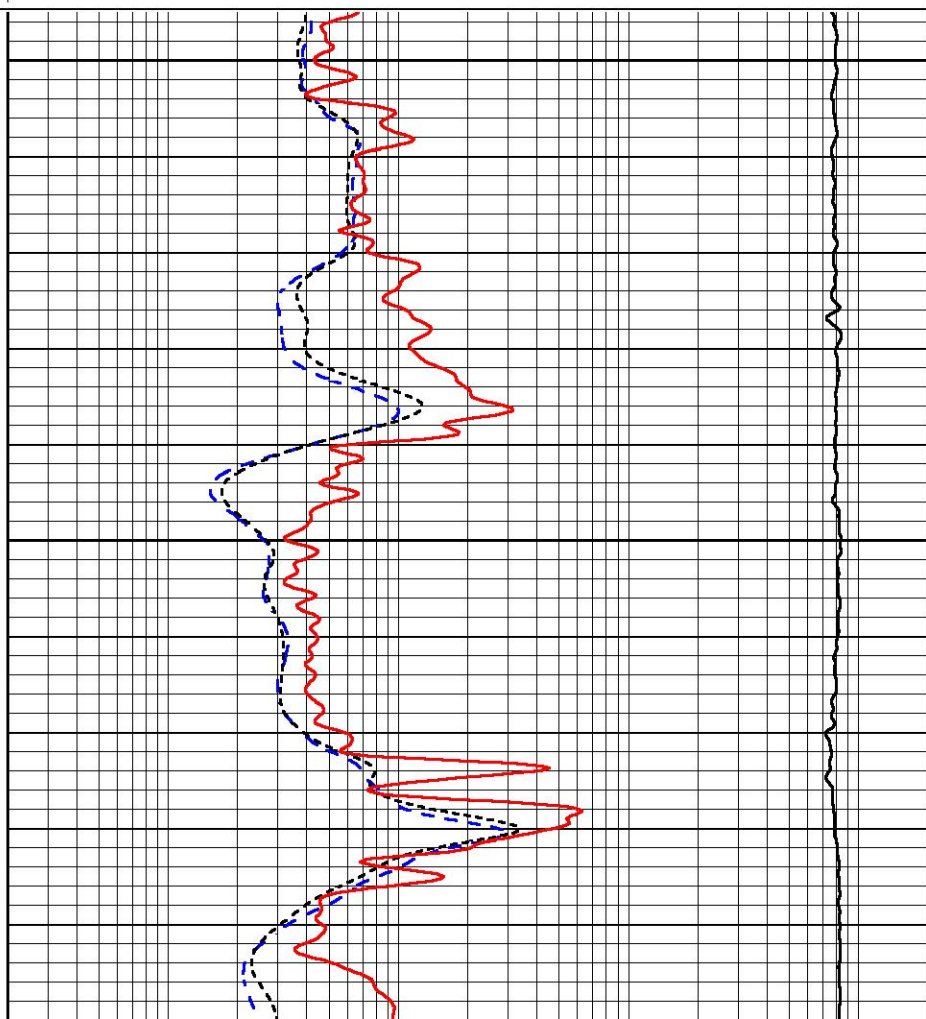
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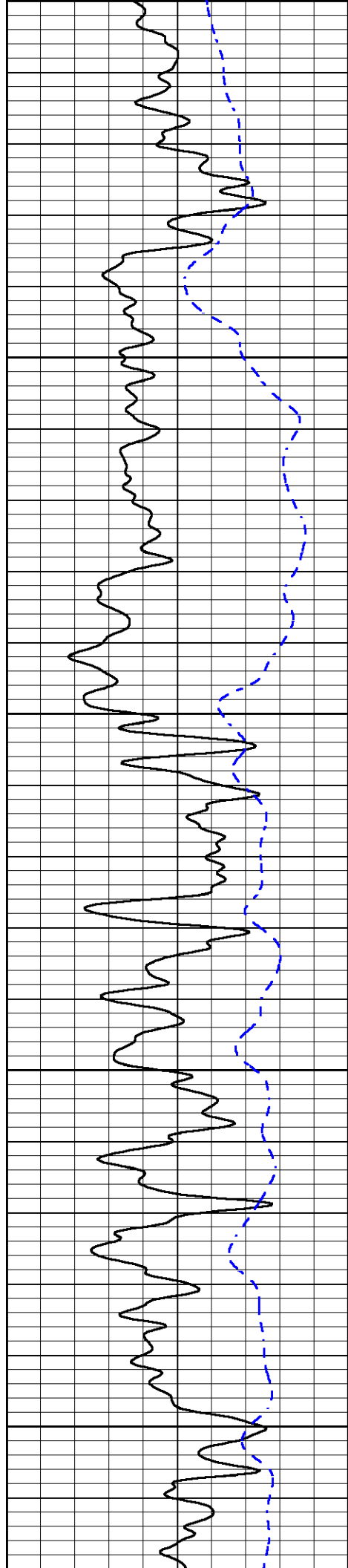


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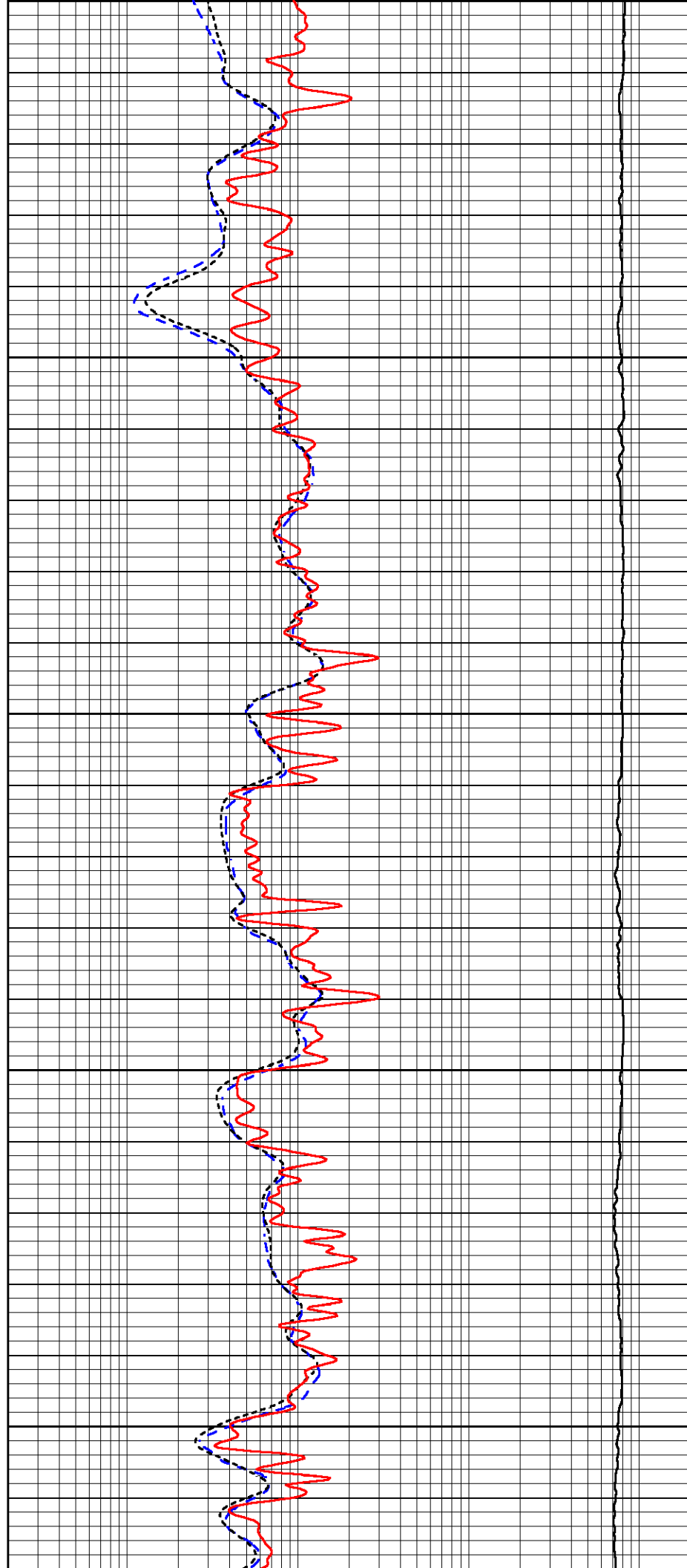
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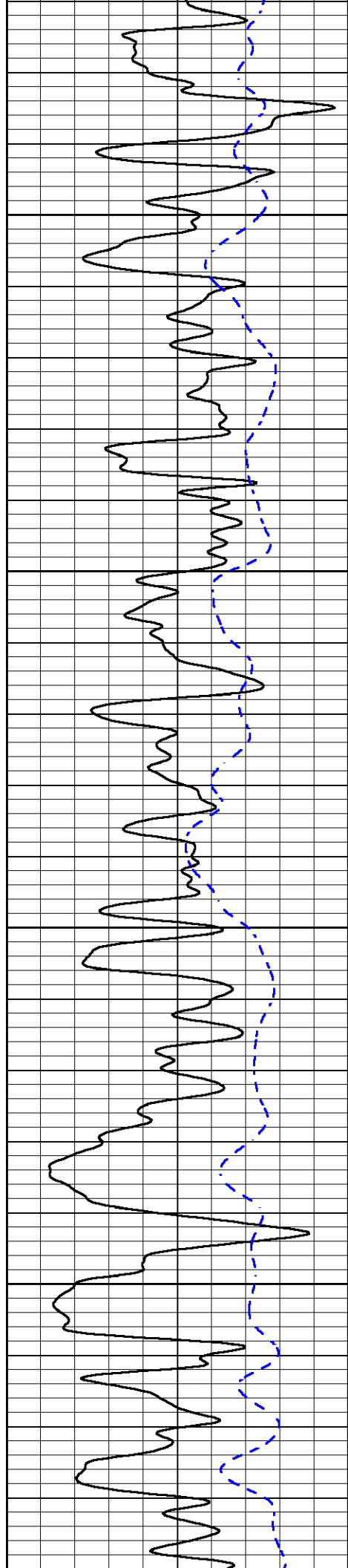
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2600 2650 2700 2750 2800



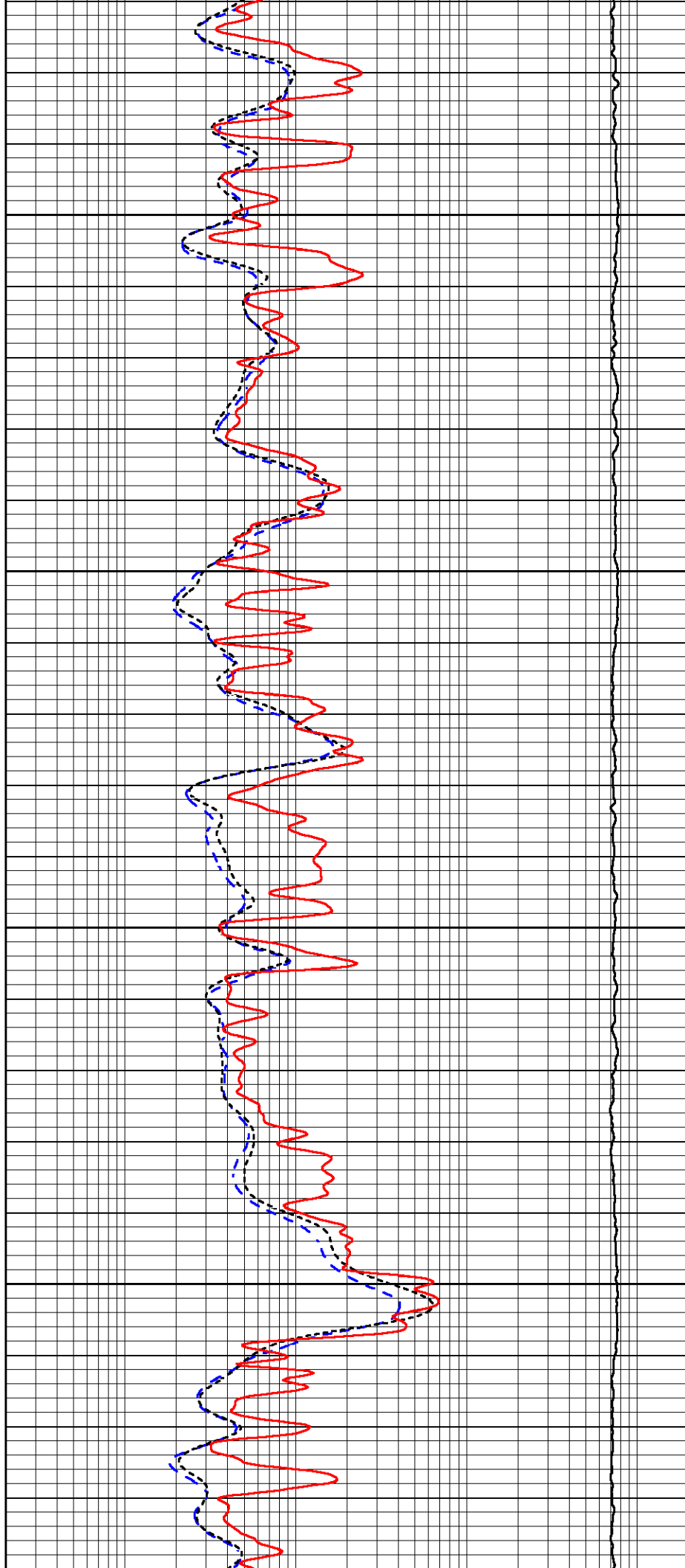


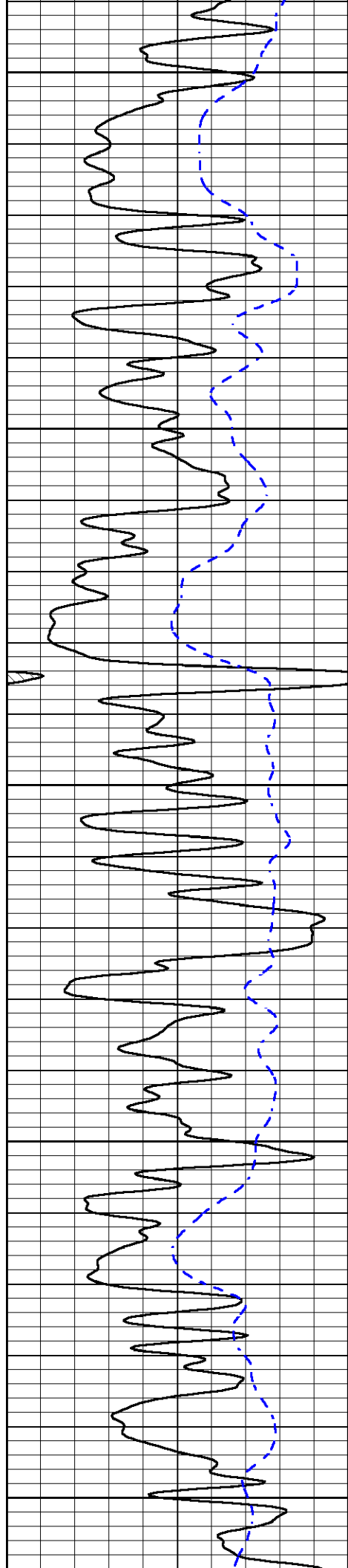
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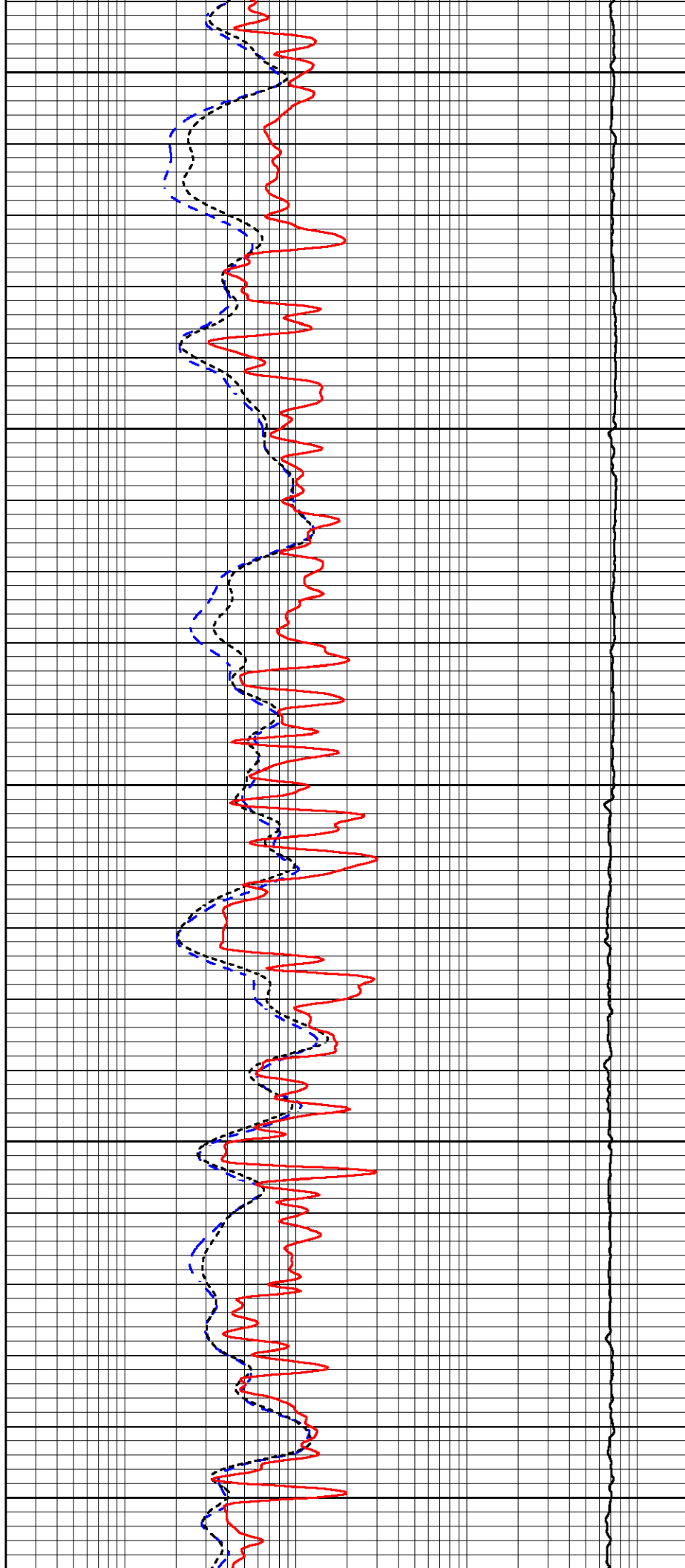
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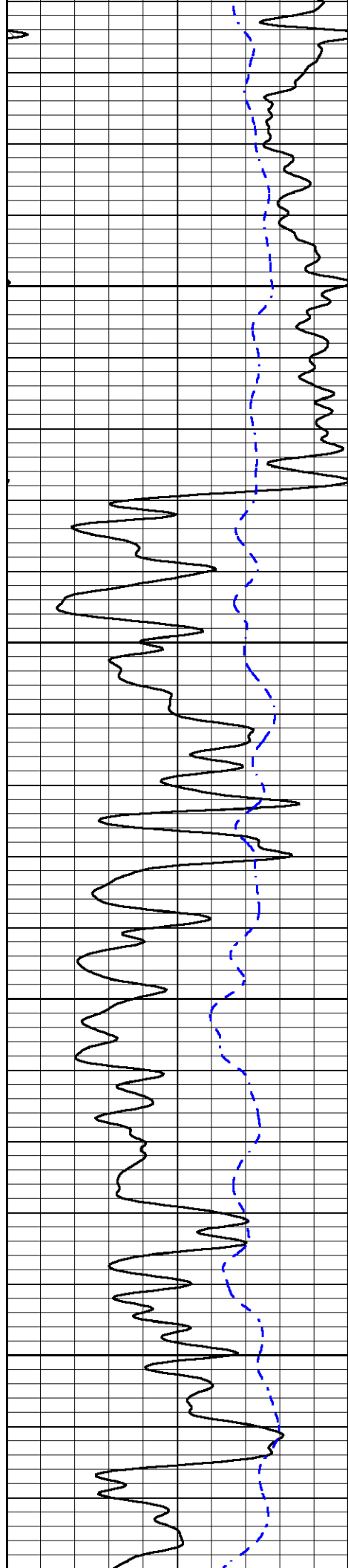
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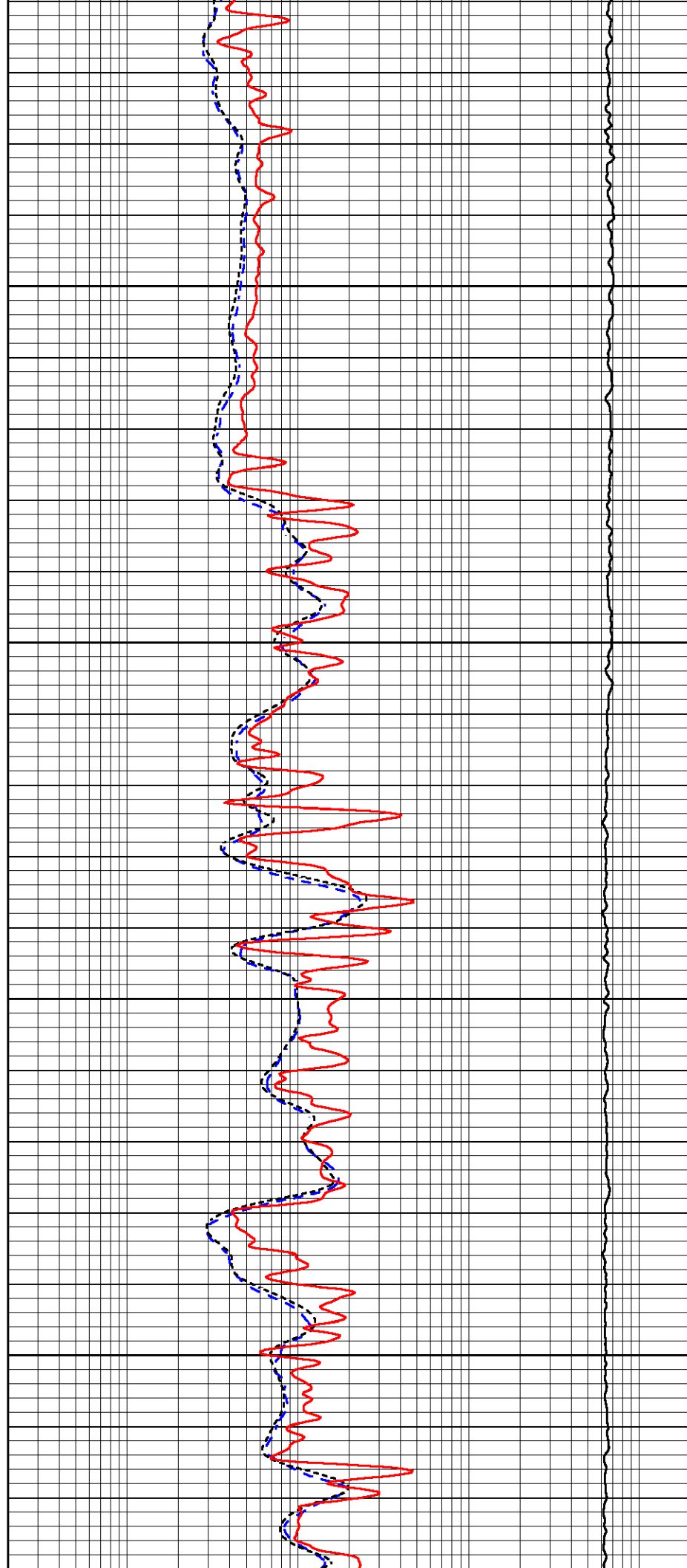


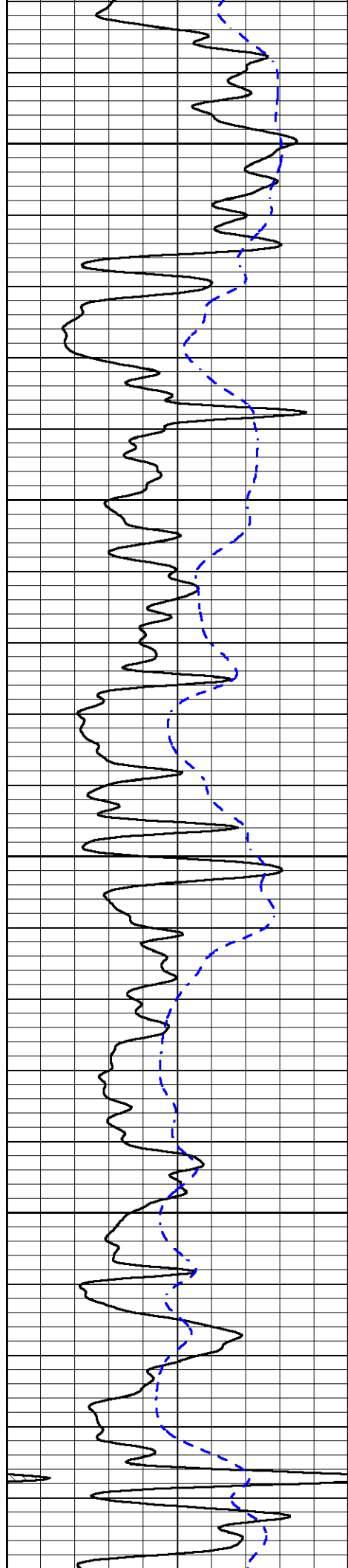
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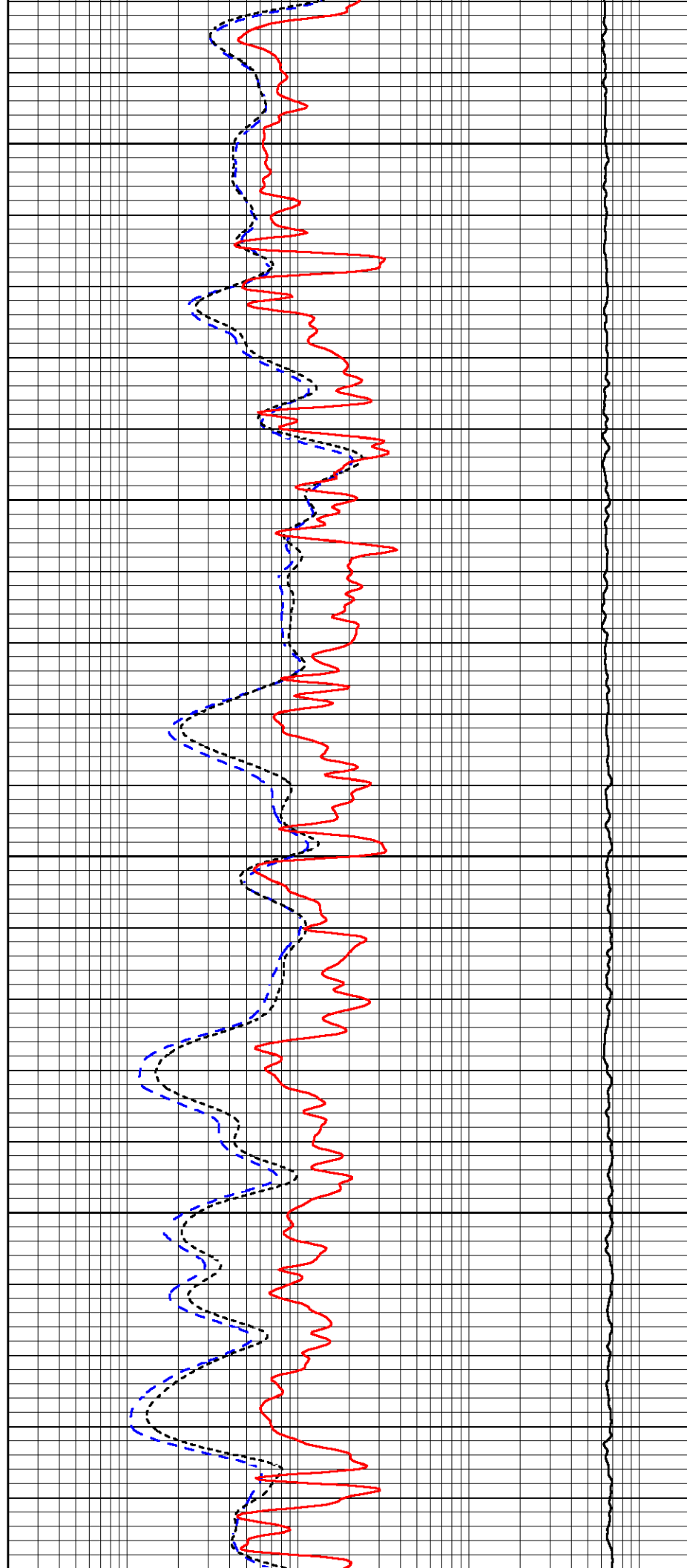
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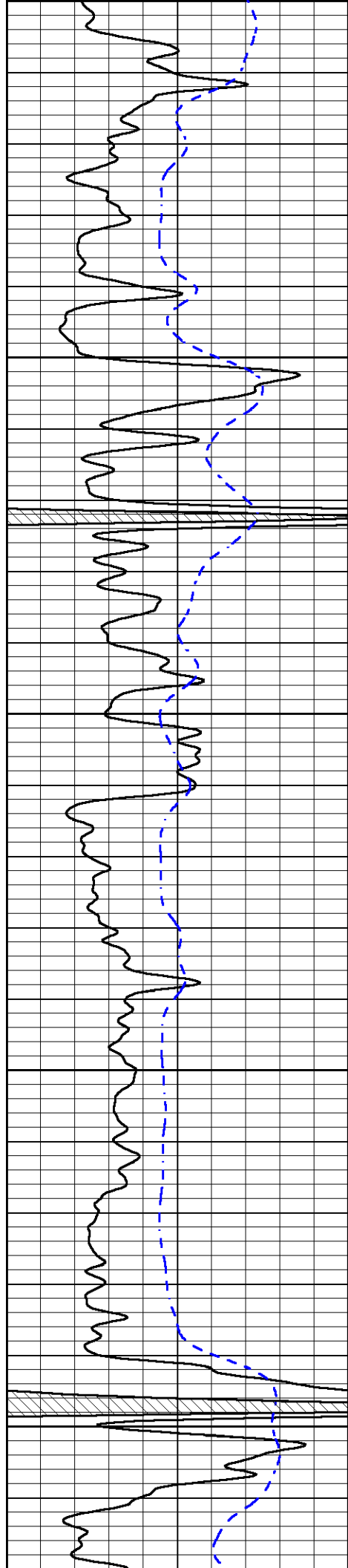
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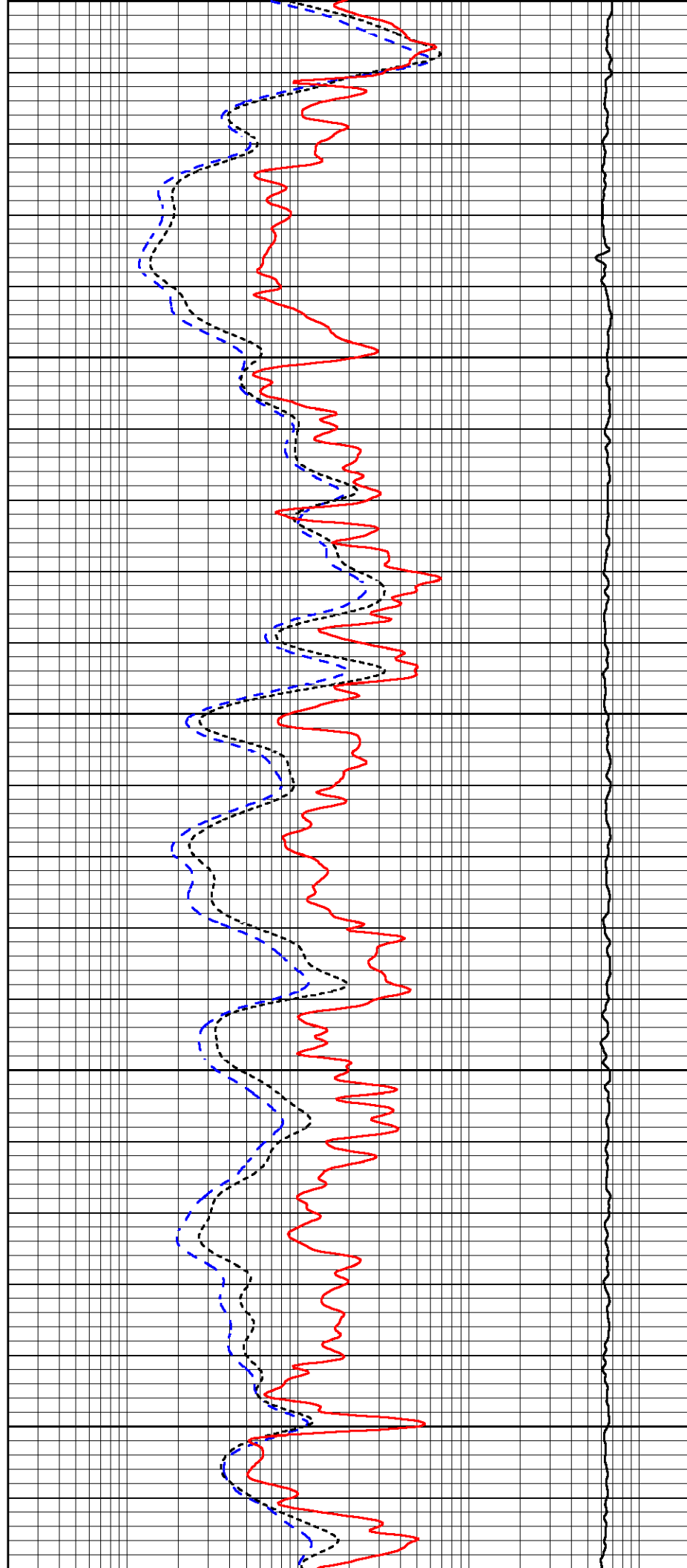
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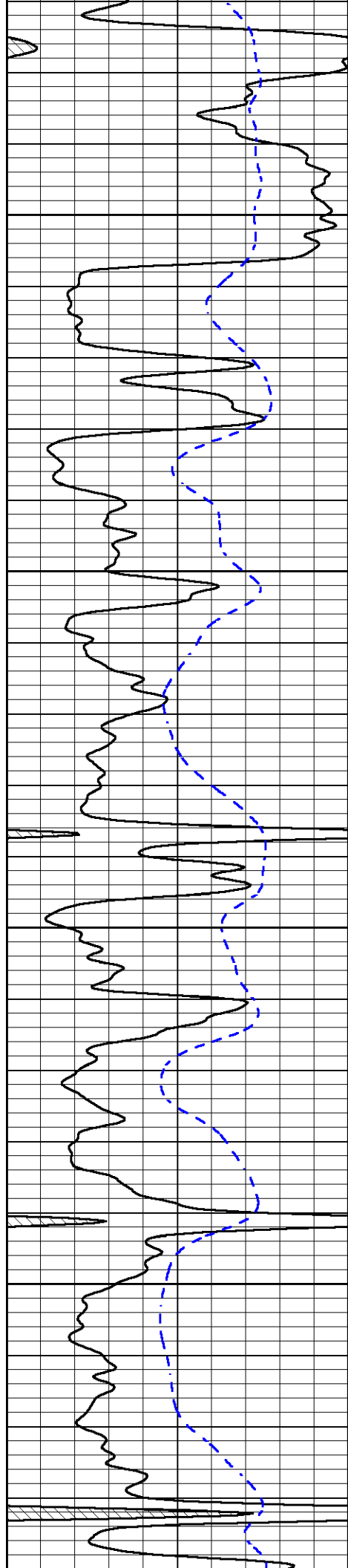
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3900



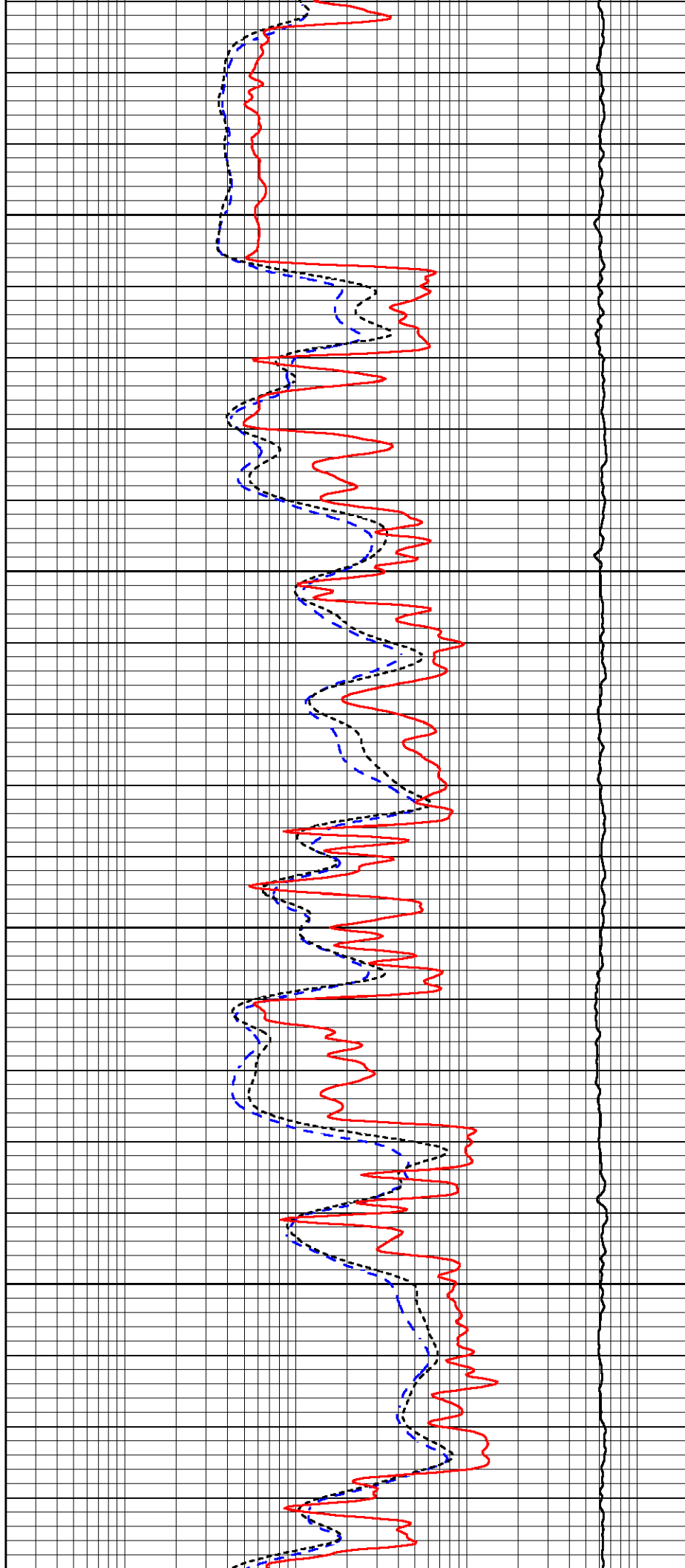


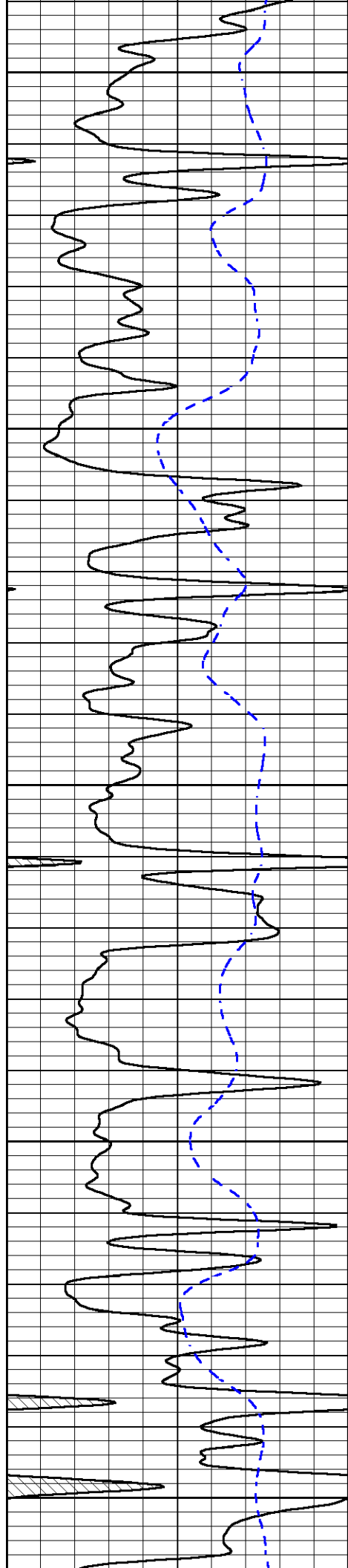
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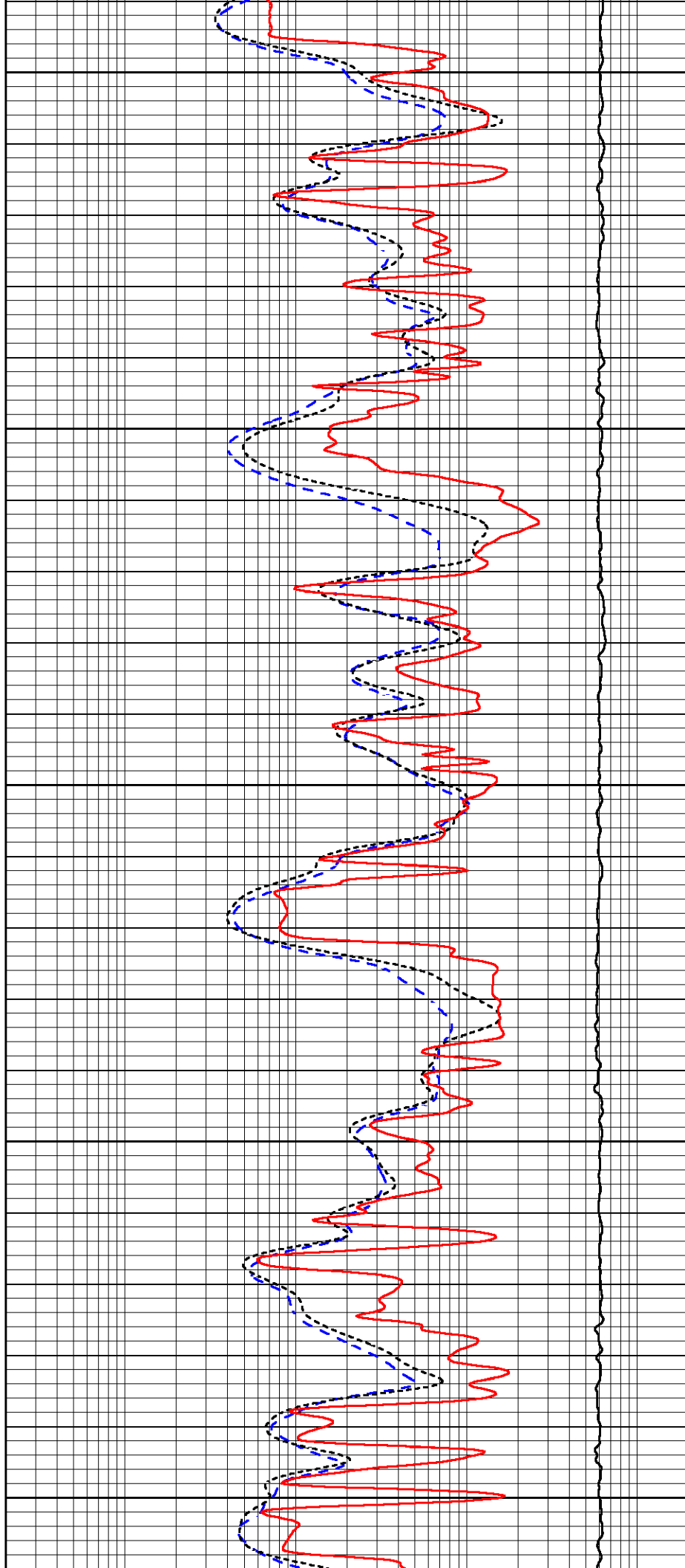
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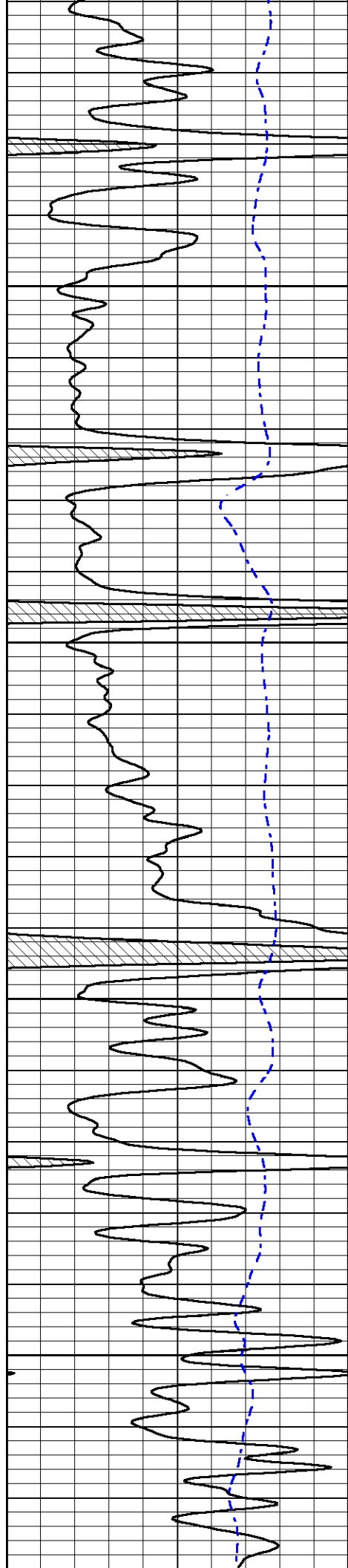
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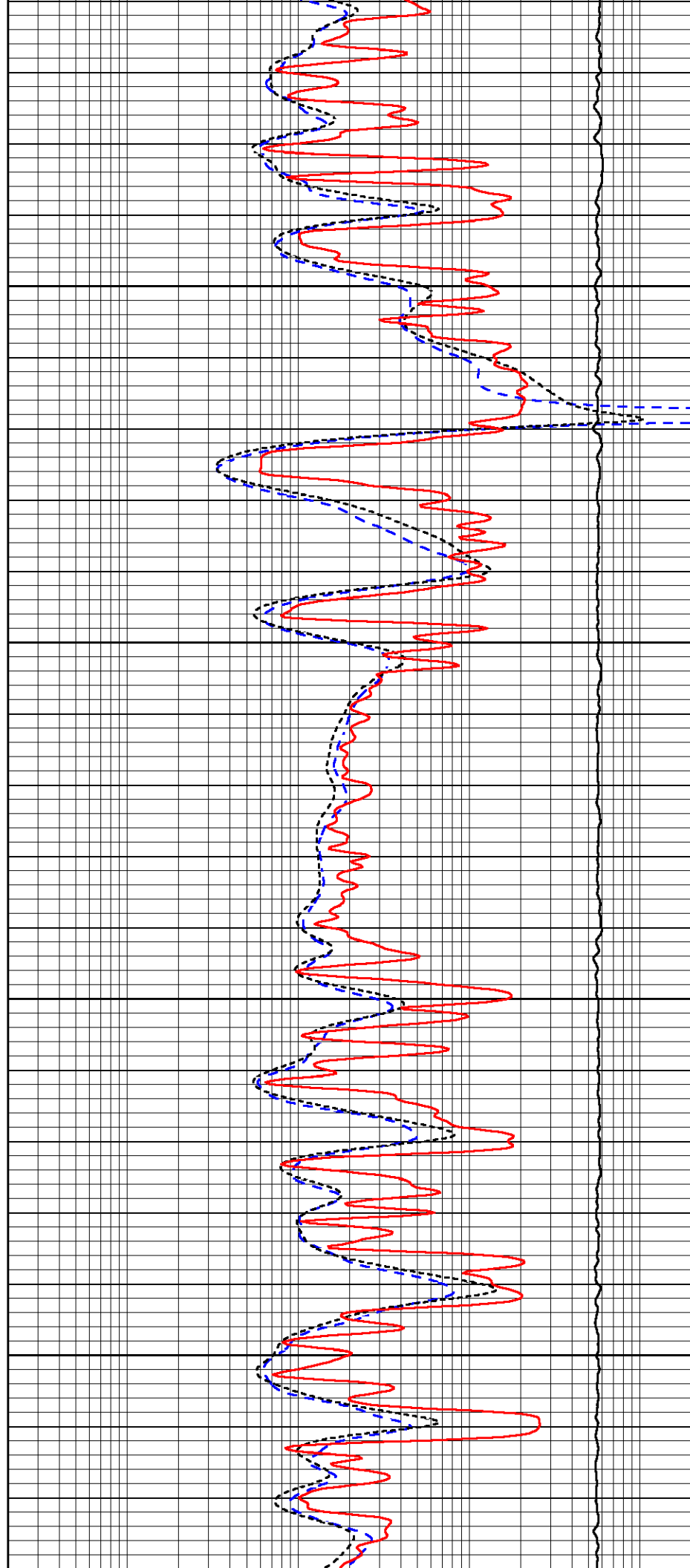


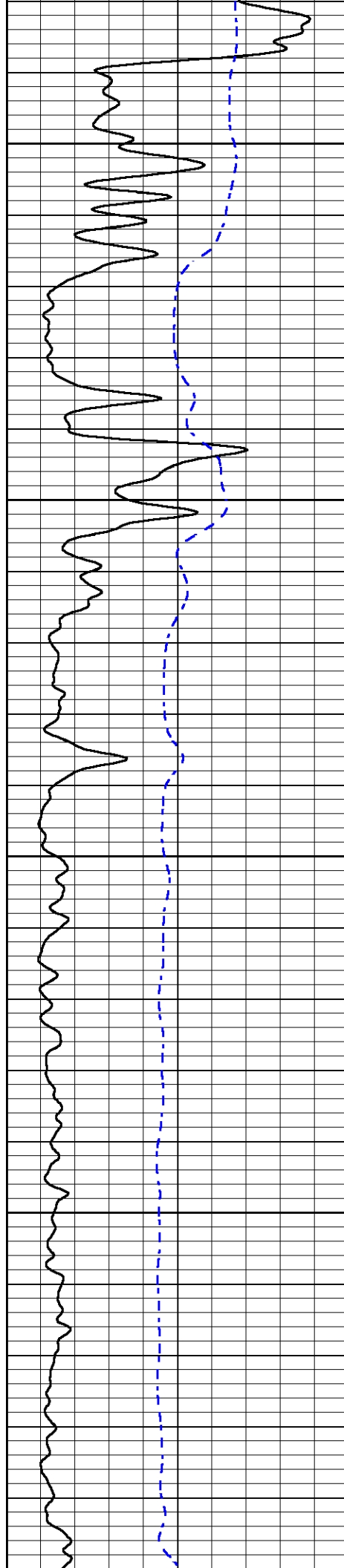
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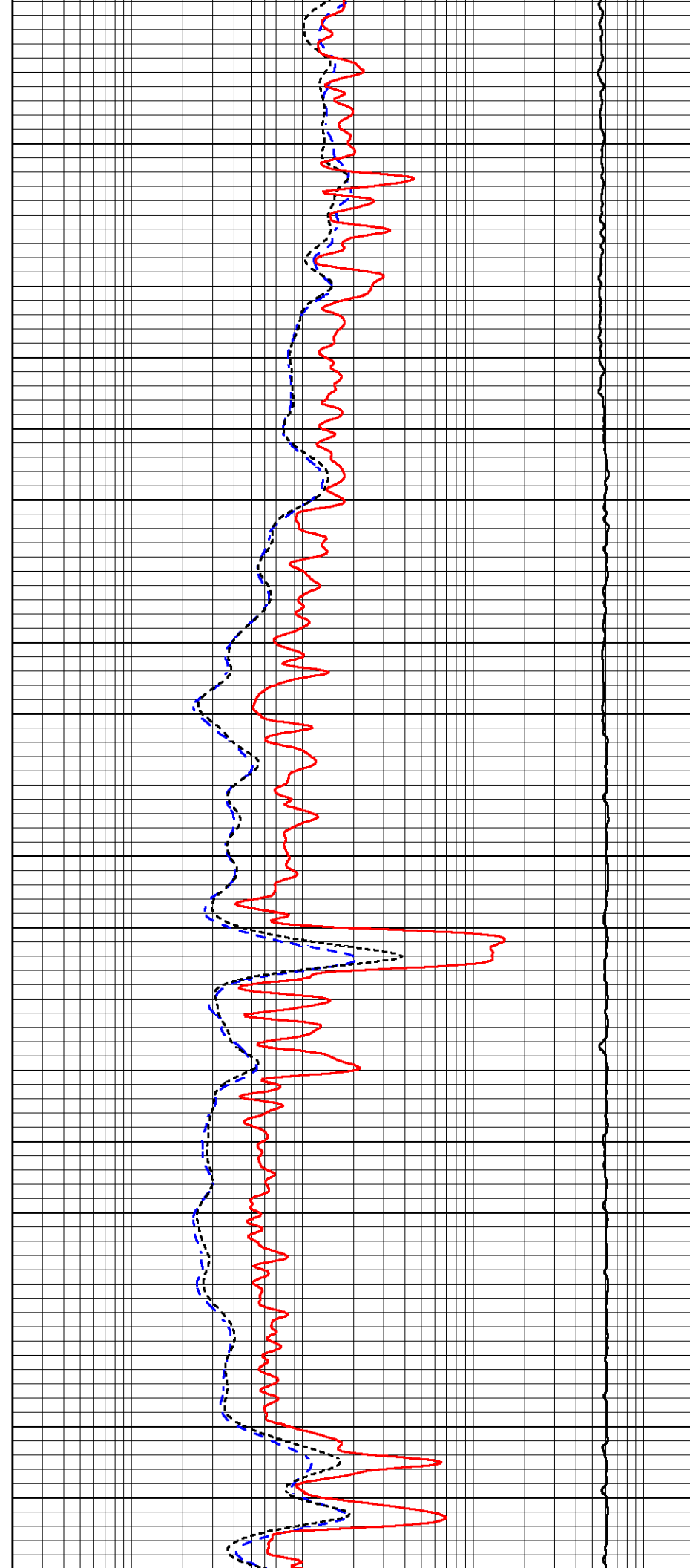
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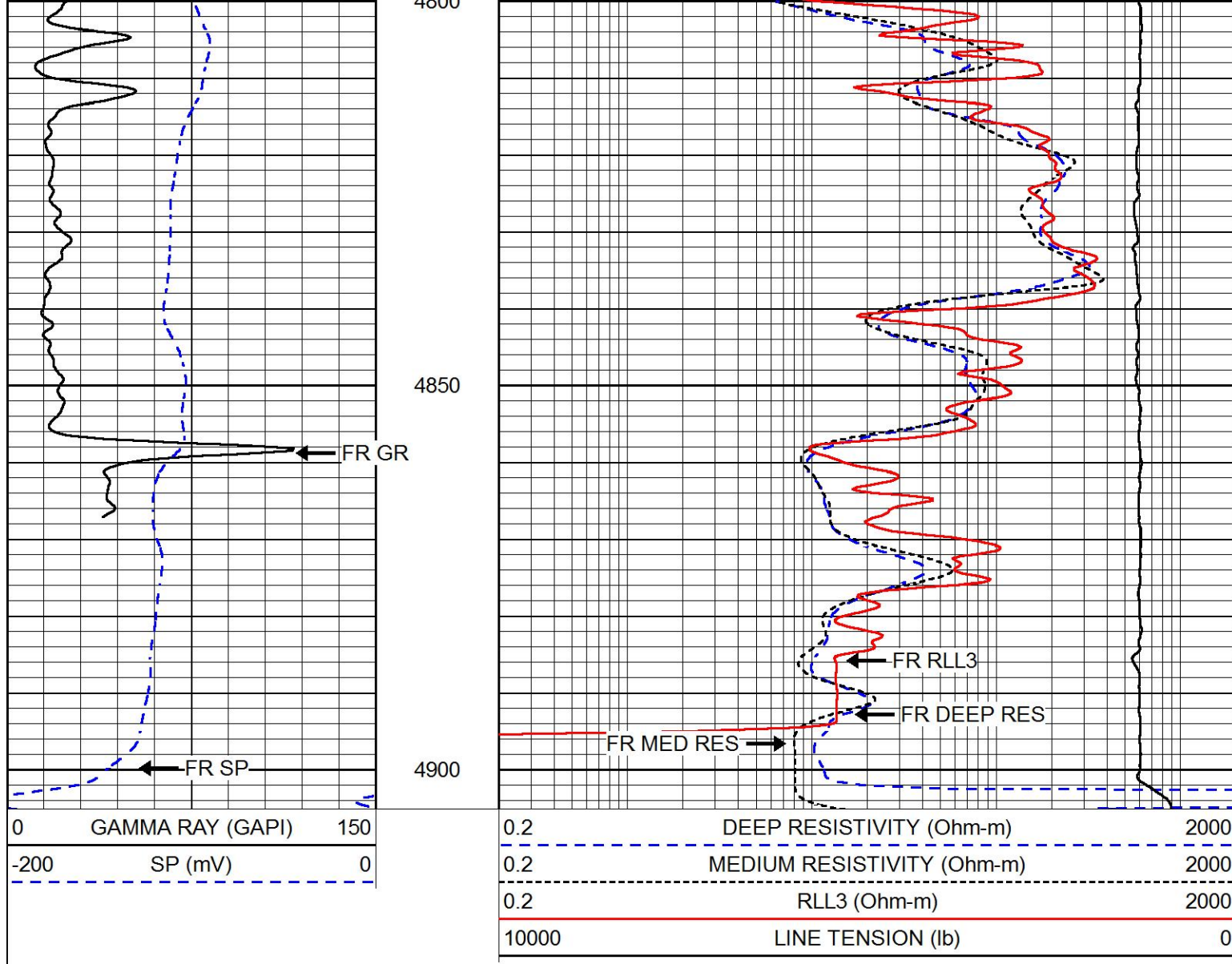
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4700

4750

4800





Company	American Warrior, Inc.
Well	Hubin B #1-15
Field	N/A
County	Hodgeman
State	Kansas