



MIDWEST WIRELINE

DUAL INDUCTION
LOG

Company Griffin Management, LLC		Company Griffin Management, LLC	
Well	Monroe #2	Well	Monroe #2
Field		Field	
County	Pratt	County	Pratt
State	Kansas	State	Kansas
Location: API #: 15-151-22546-00-00		Other Services	
990 FSL & 330 FEL		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	2008
Log Measured From	Kelly Bushing	K.B.	2013
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2008
Date	6/28/2022		
Run Number	One		
Depth Driller	4865		
Depth Logger	4863		
Bottom Logged Interval	4862		
Top Log Interval	250		
Casing Driller	8.625 @ 263		
Casing Logger	263		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7500		
Density / Viscosity	9.3	54	
pH / Fluid Loss	10.0	80	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.30 @ 72		
Rmt @ Meas. Temp	0.23 @ 72		
Rmc @ Meas. Temp	0.41 @ 72		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.17 @ 125		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	125		
Equipment Number	24		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Charles Griffin	Eli Felts	

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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.

Croft,
South to 110, 1 East, 1 South,
East into

Log Measured From: Kelly Bushing 5 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: Charles Griffin	
Operator:		Secondary Witness: Eli Felts	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33			GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48			CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68			CDL-M&W (302-02)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58			ML-PSIML (401)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50			DIL-M&W (502 HT)	18.25	3.50	220.00
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: griffin_monroe 2.db: field/well/stkml/pass3.11 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_monroe 2.db
Dataset field/well/stkml/pass3.11/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 125	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 20	degF 60	Off	ft 4863

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

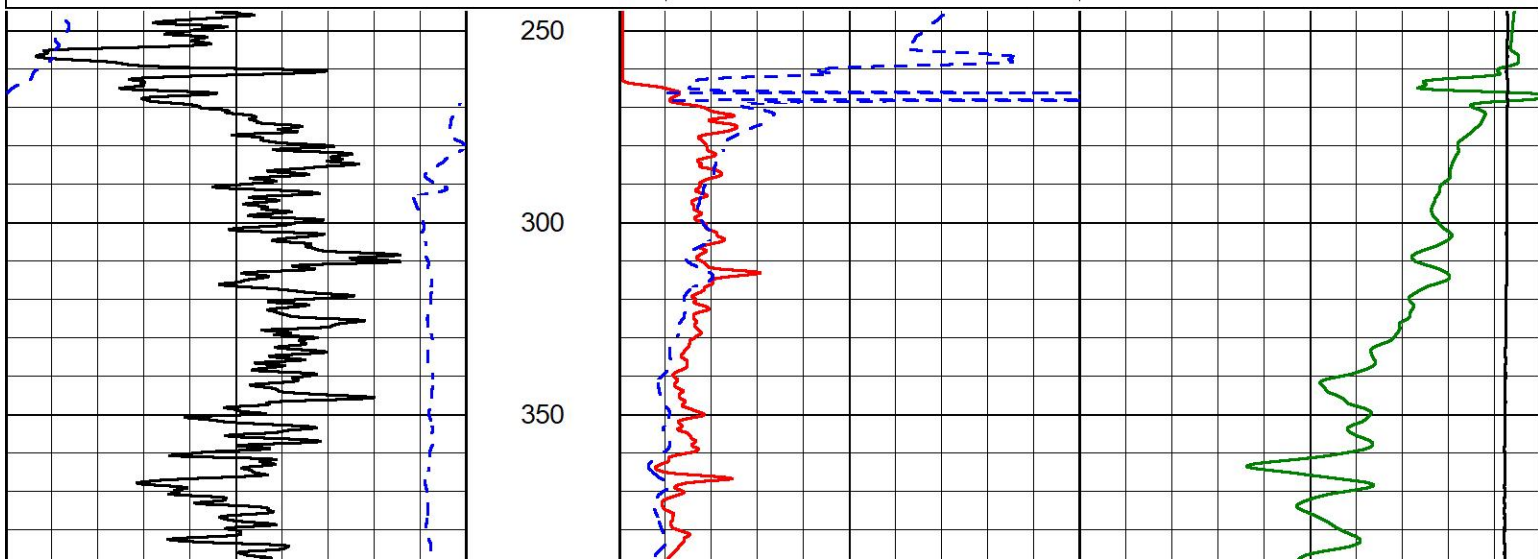


2" SCALE RESISTIVITY

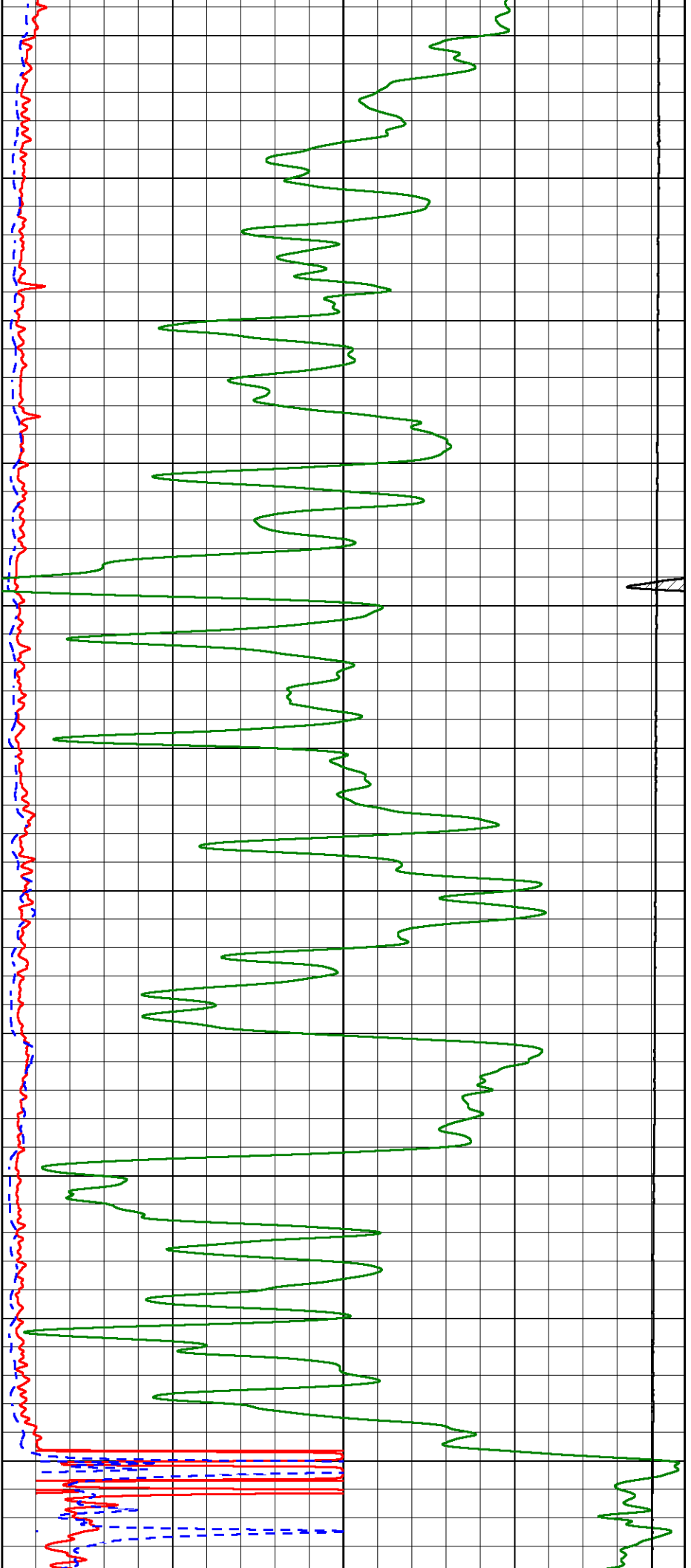
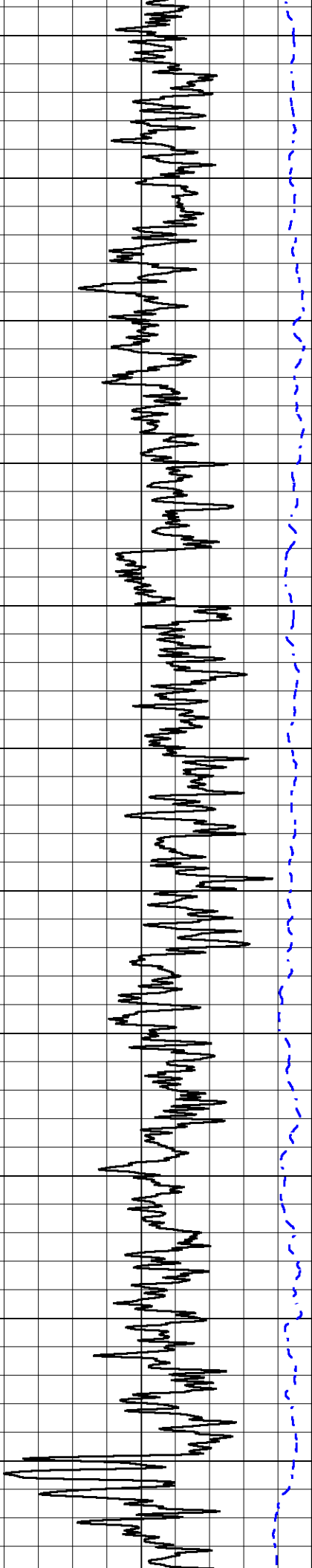
MAIN PASS

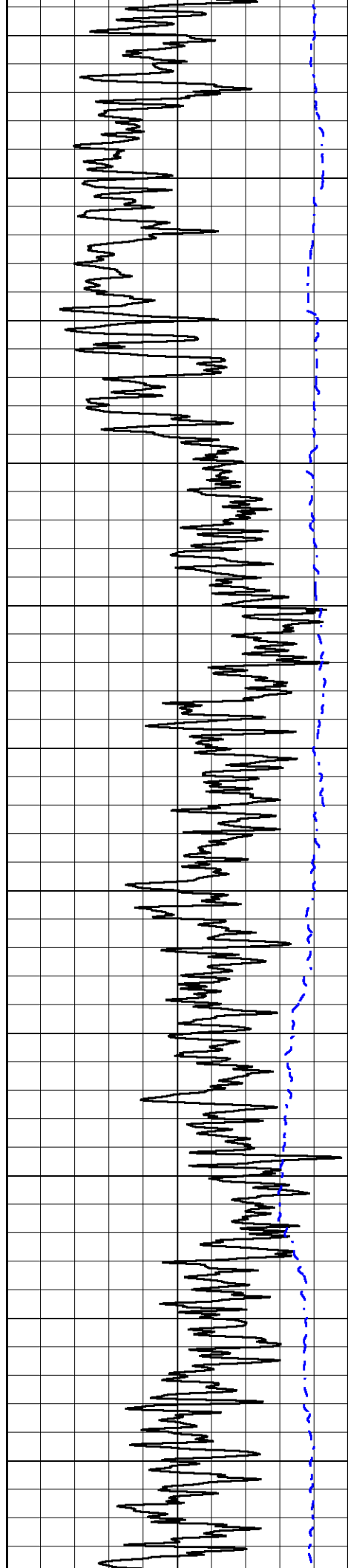
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Dataset Pathname stkml/pass3.3
Presentation Format _dil2in
Dataset Creation Tue Jun 28 07:59:12 2022
Charted by Depth in Feet scaled 1:600

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



400
450
500
550
600
650
700
750
800
850
900





950

1000

1050

1100

1150

1200

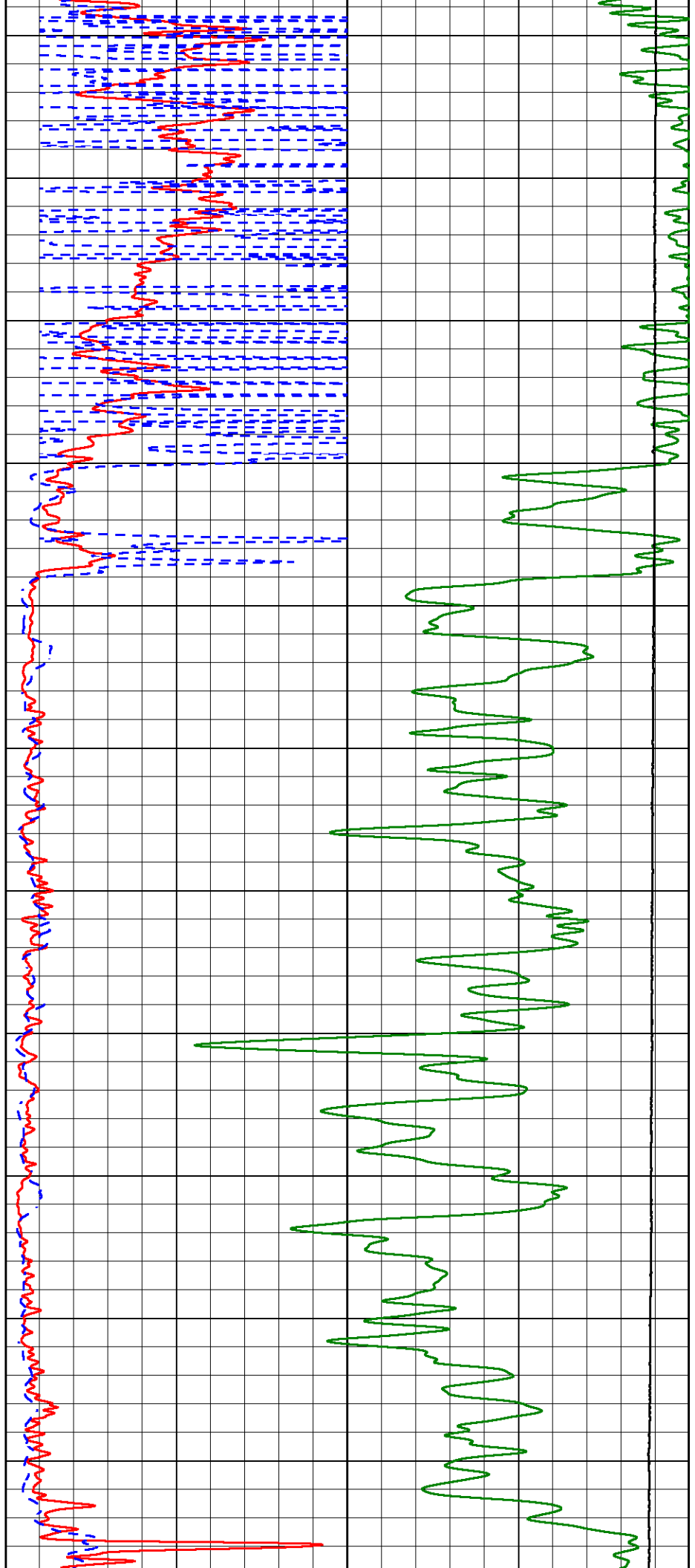
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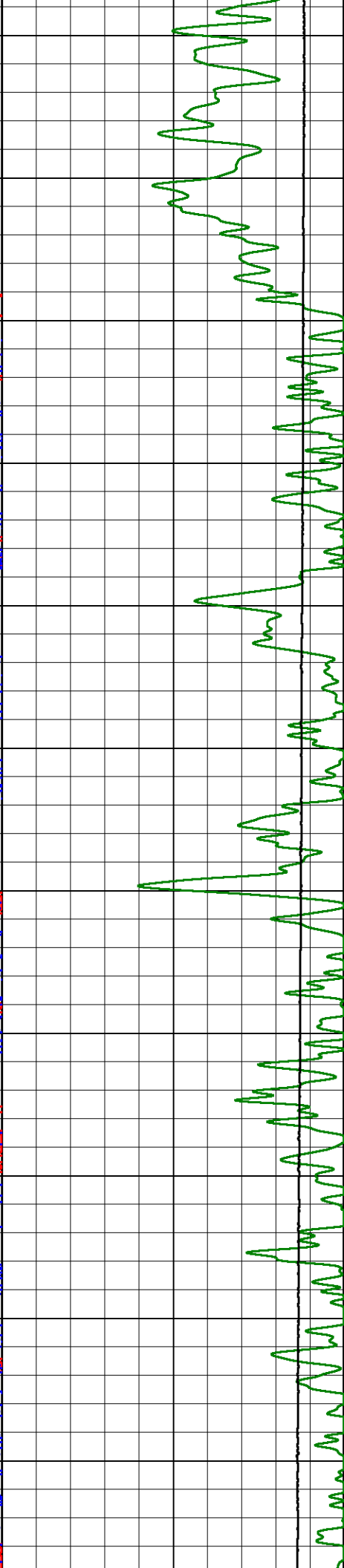
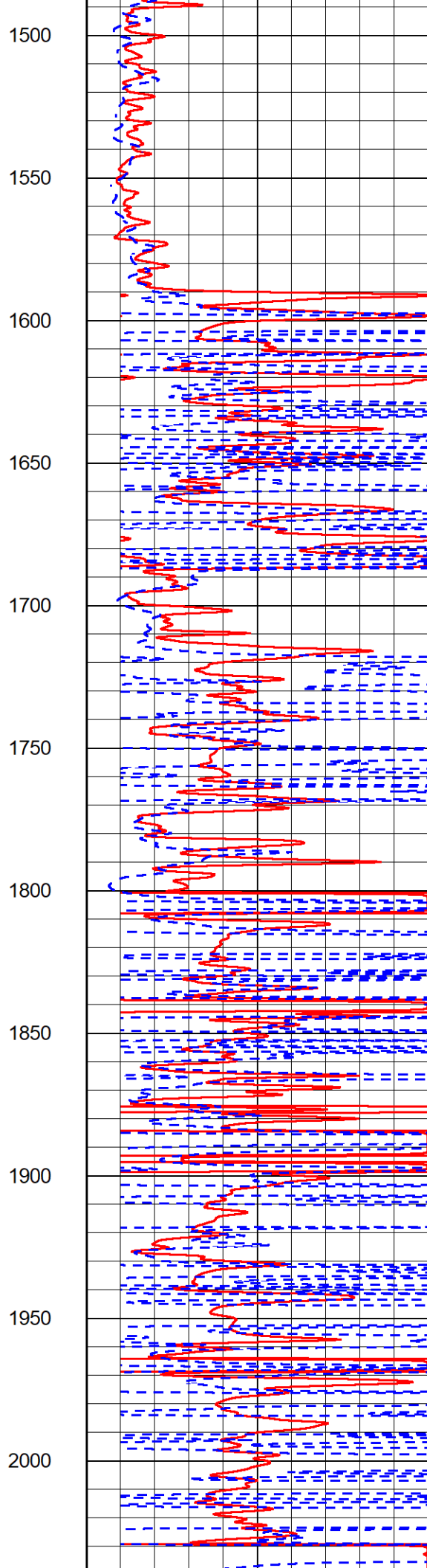
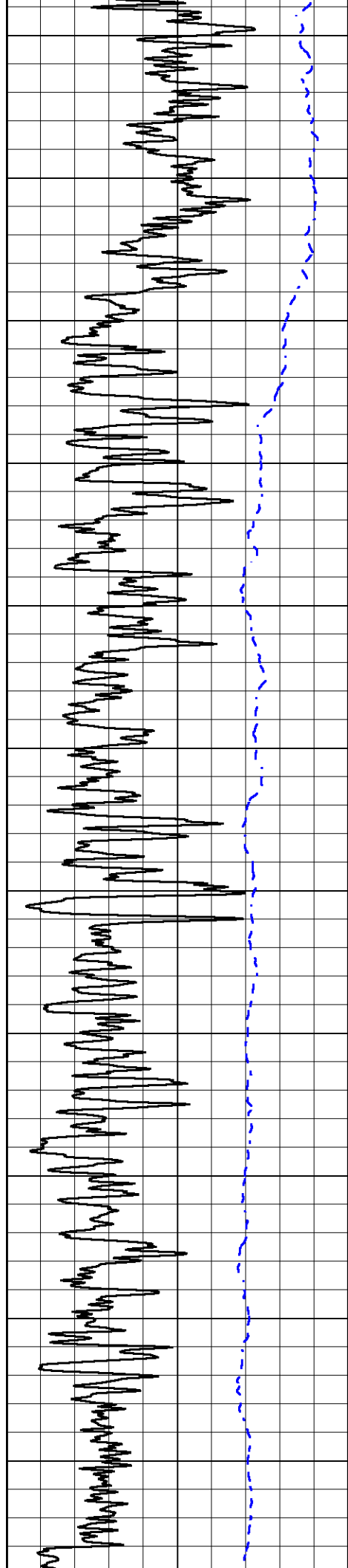
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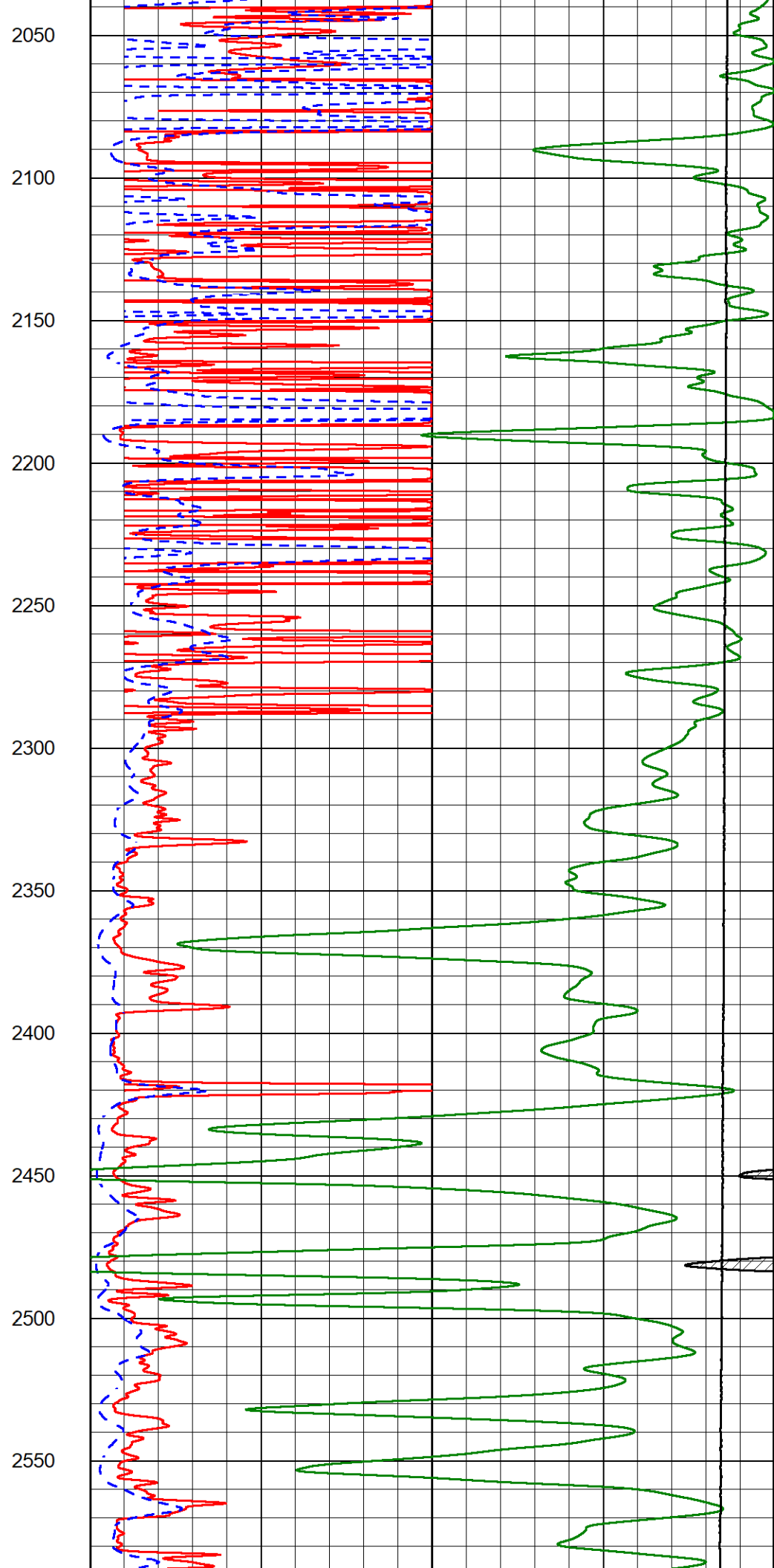
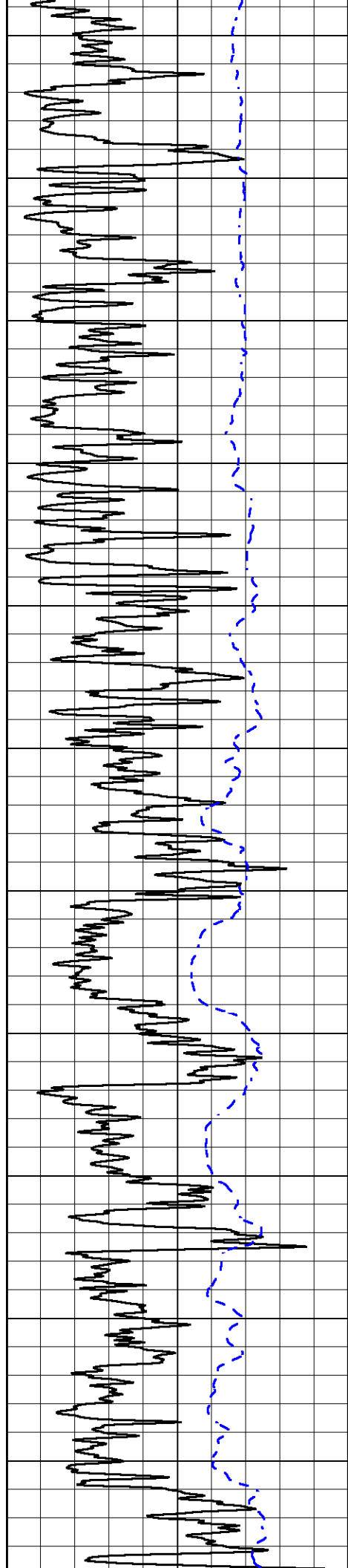
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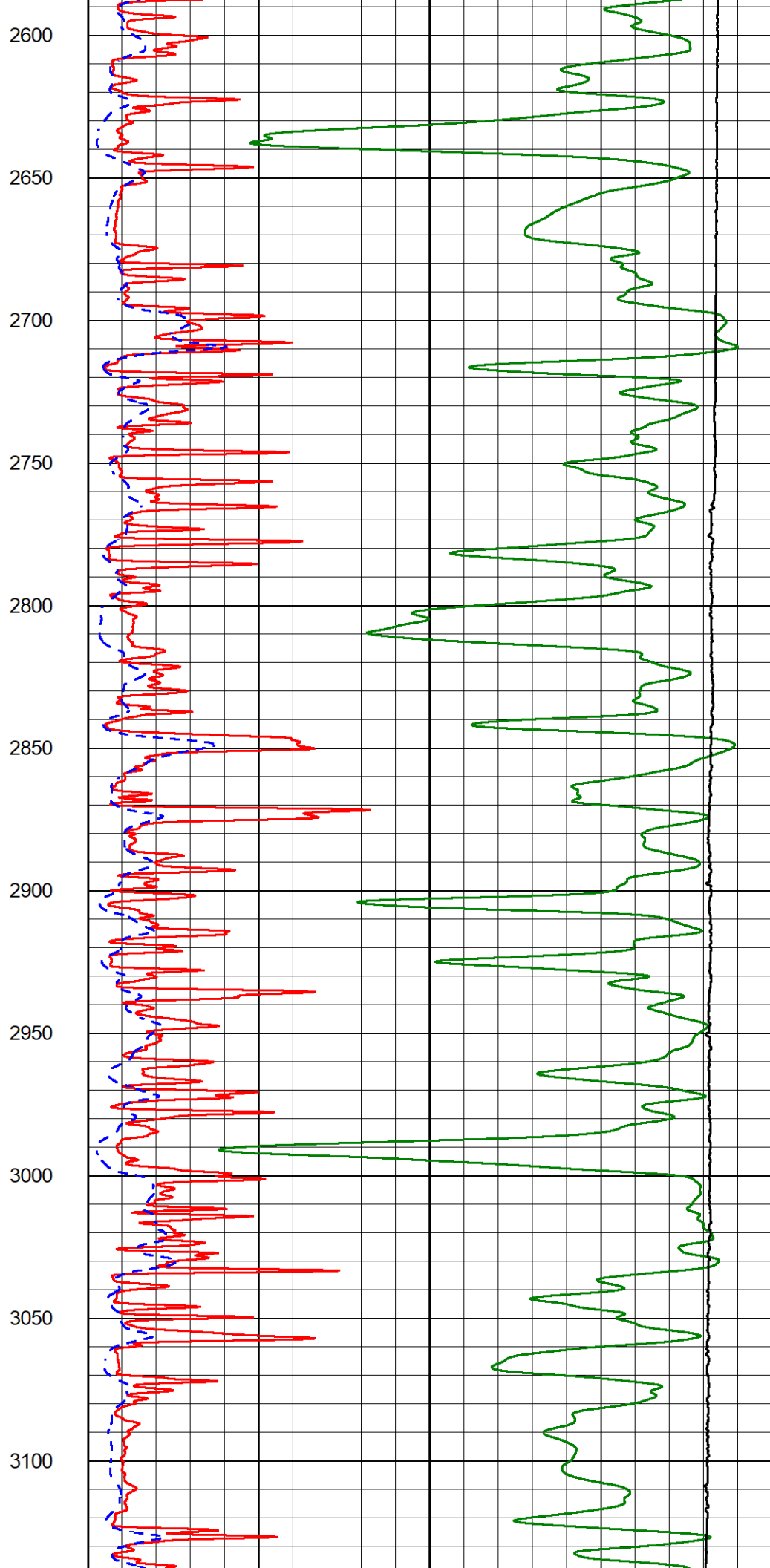
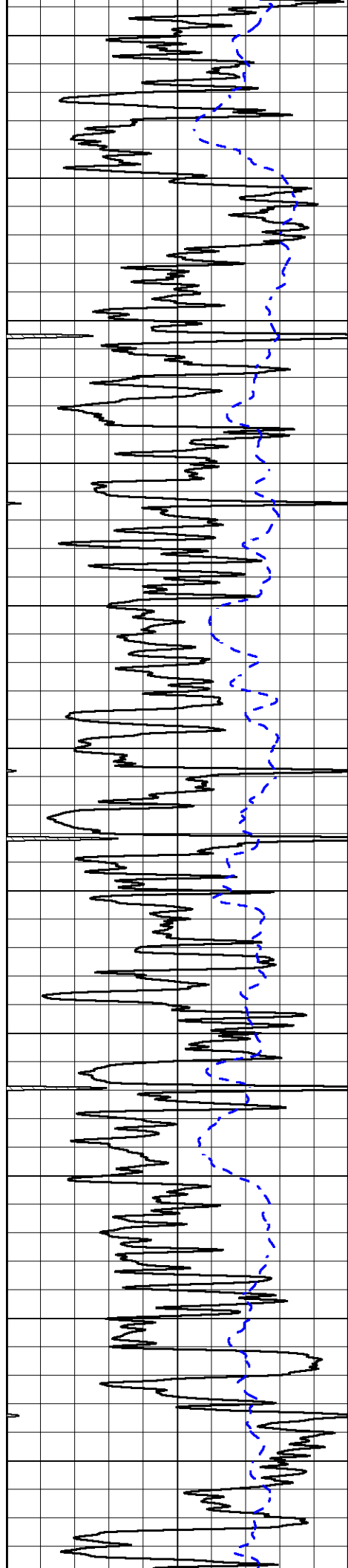
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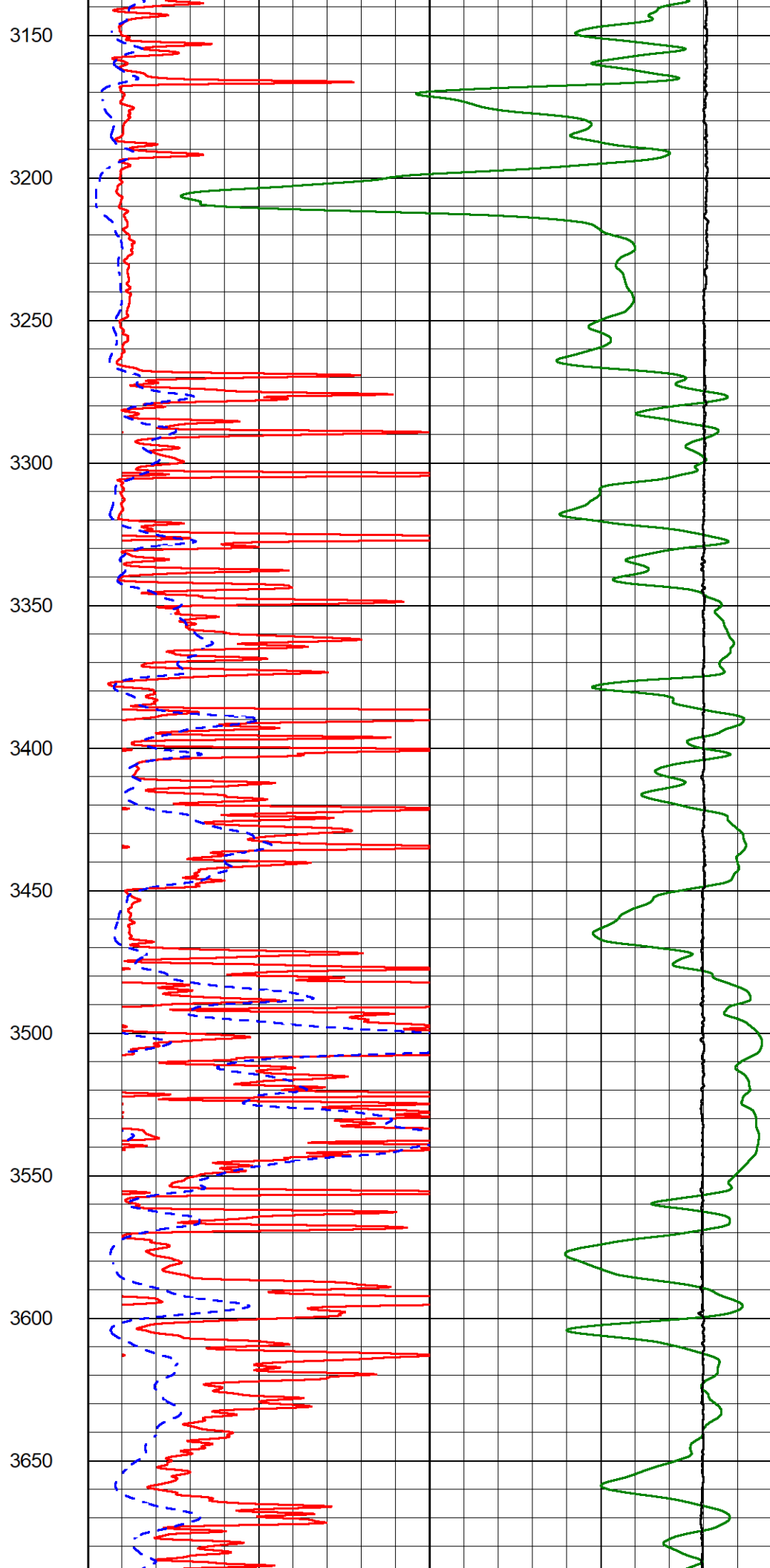
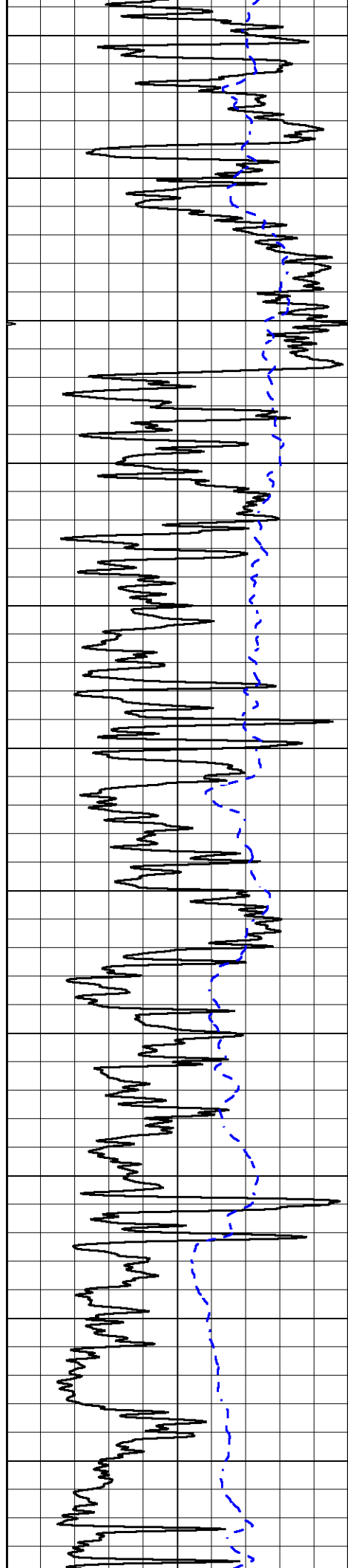
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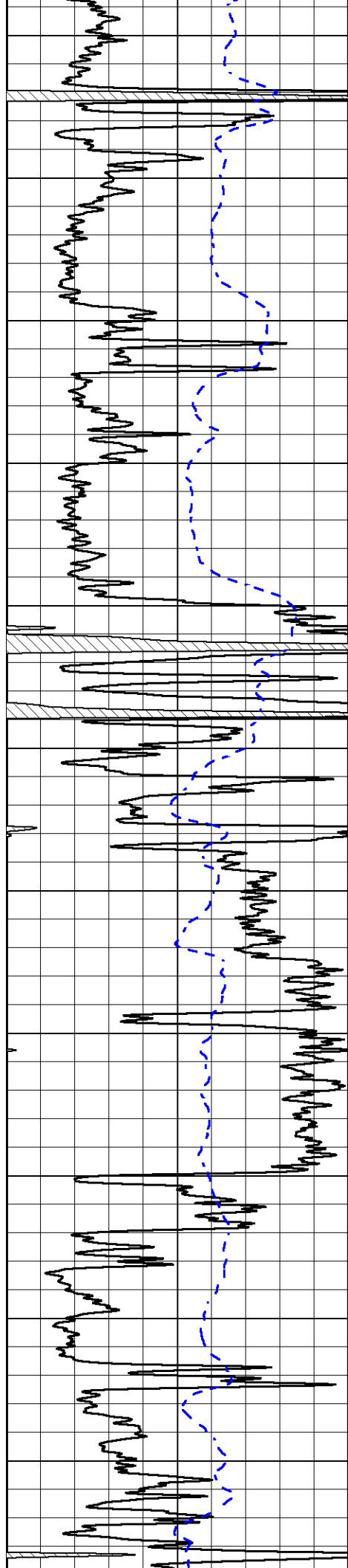












3700

3750

3800

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3900

3950

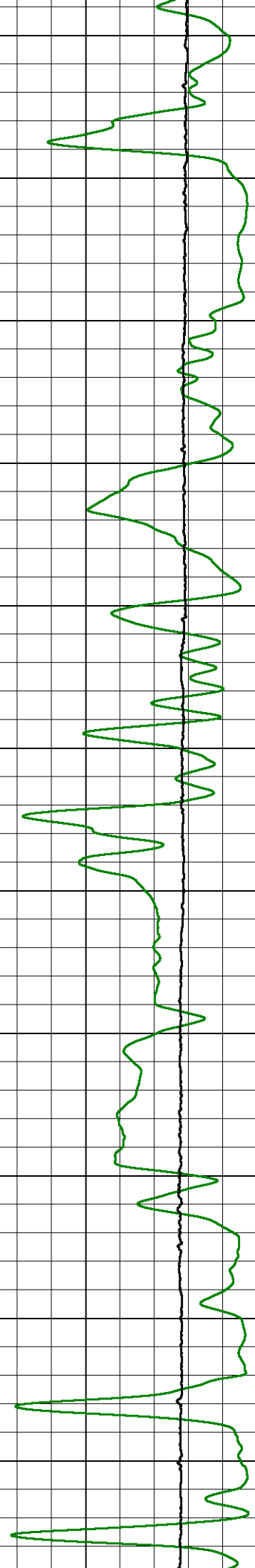
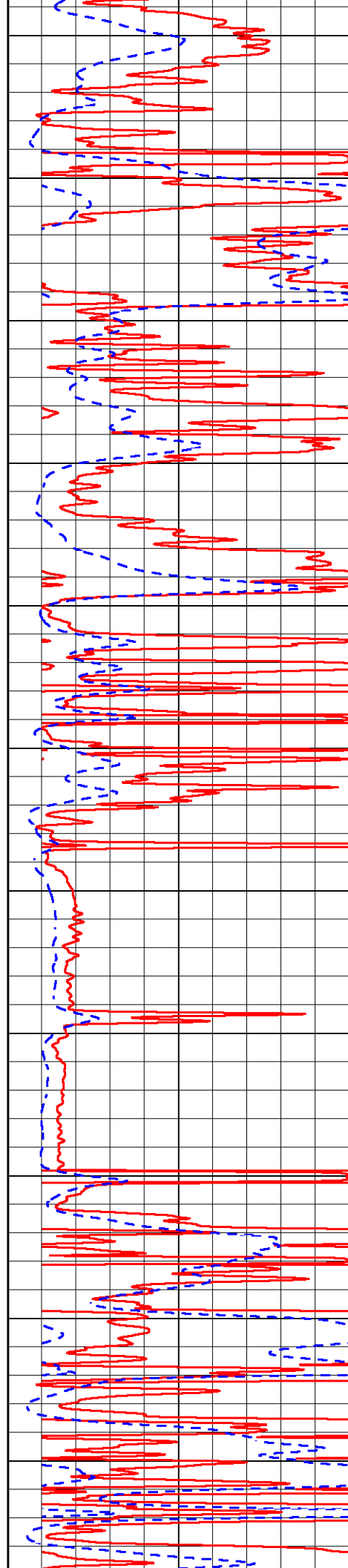
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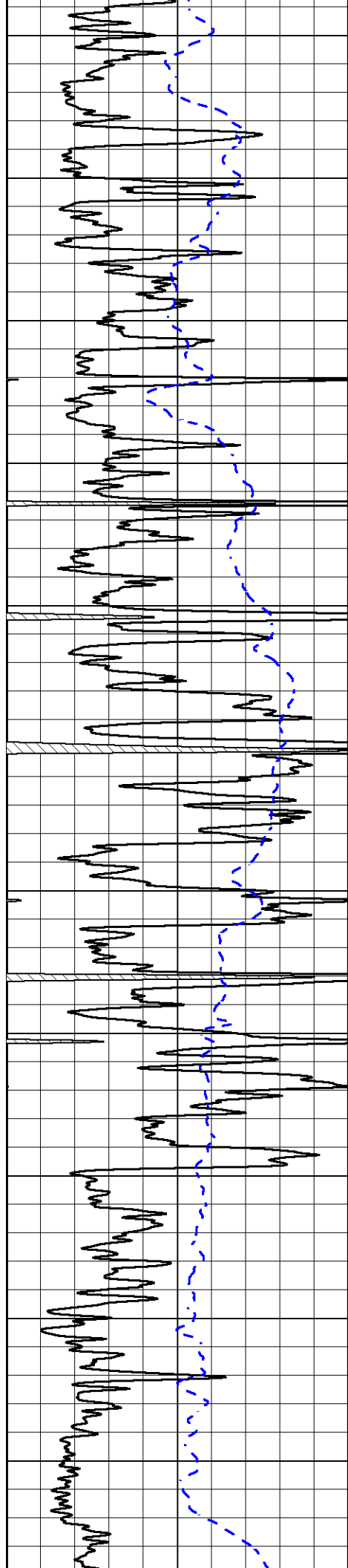
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4100

4150

4200





4250

4300

4350

4400

4450

4500

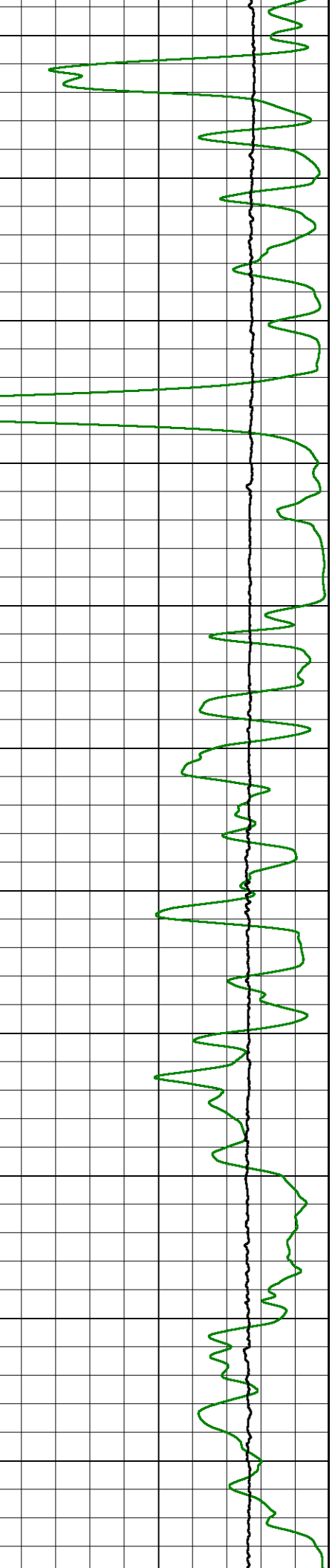
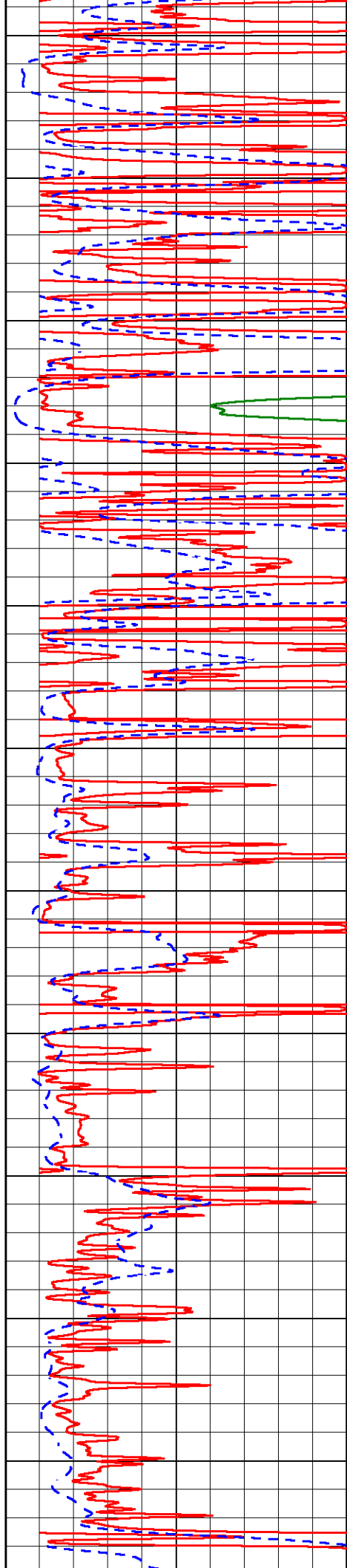
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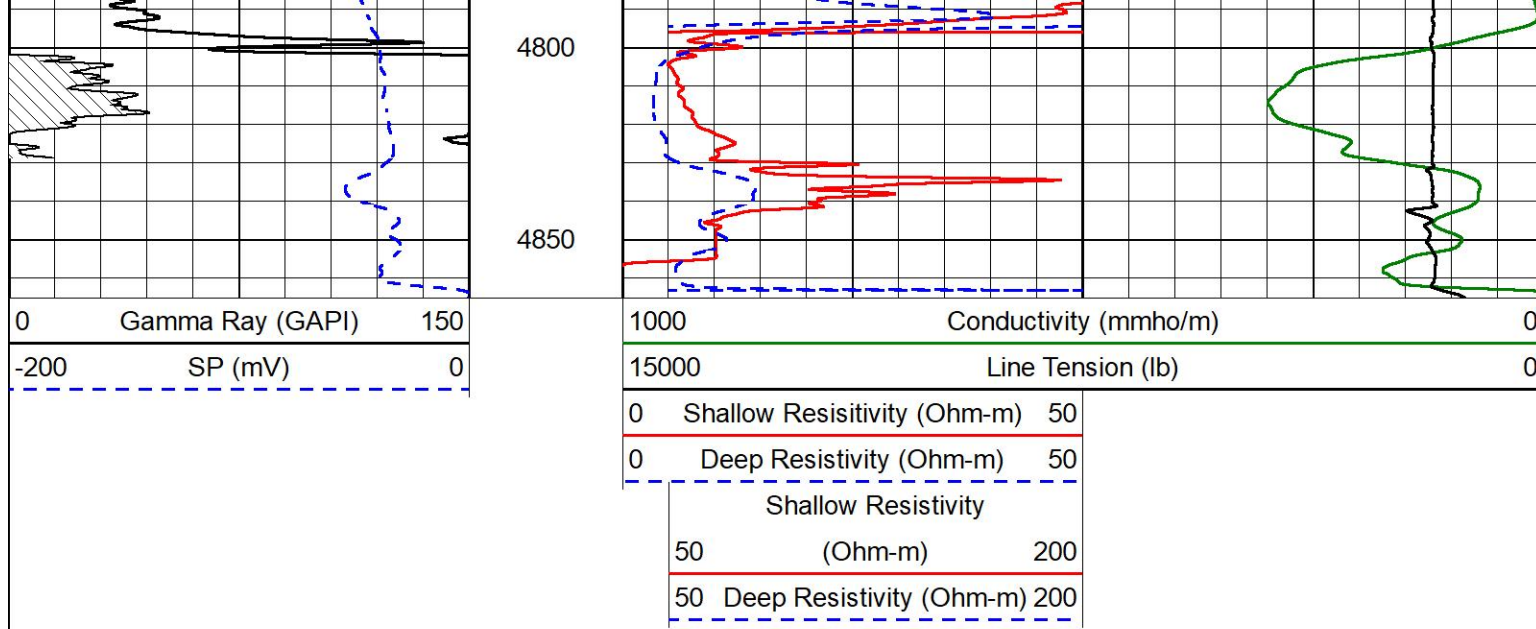
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4700

4750



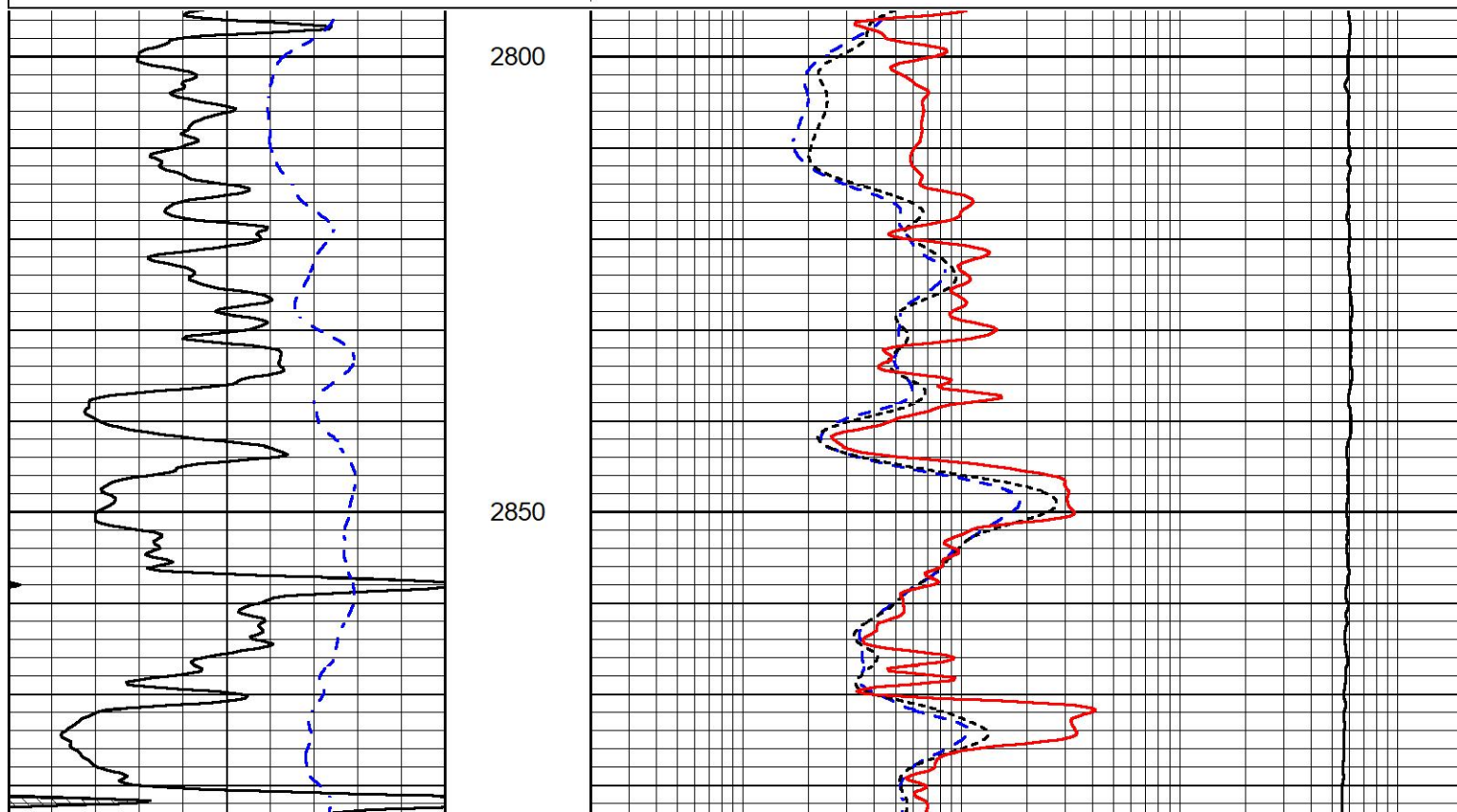
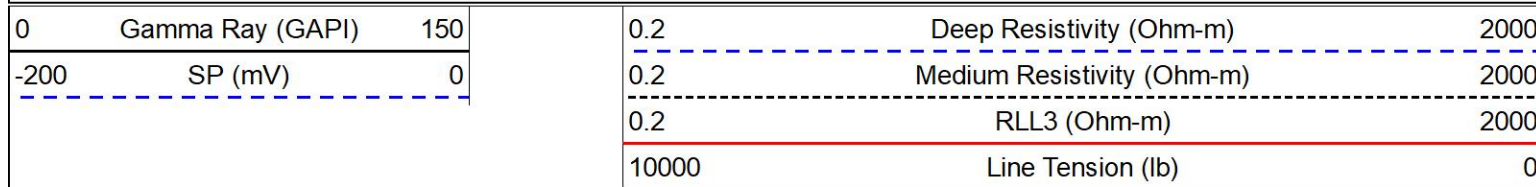


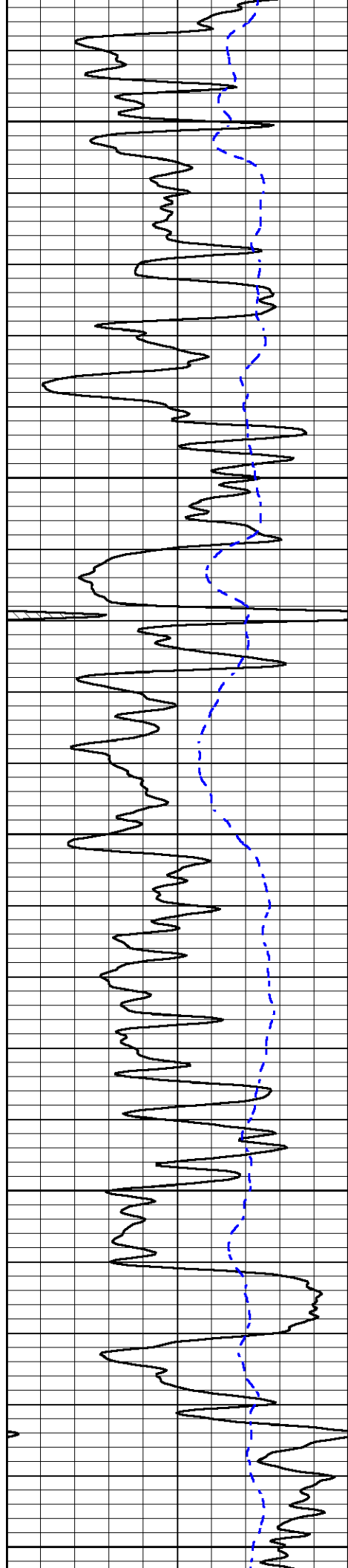
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File griffin_monroe 2.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _dil
 Dataset Creation Tue Jun 28 07:55:10 2022
 Charted by Depth in Feet scaled 1:240





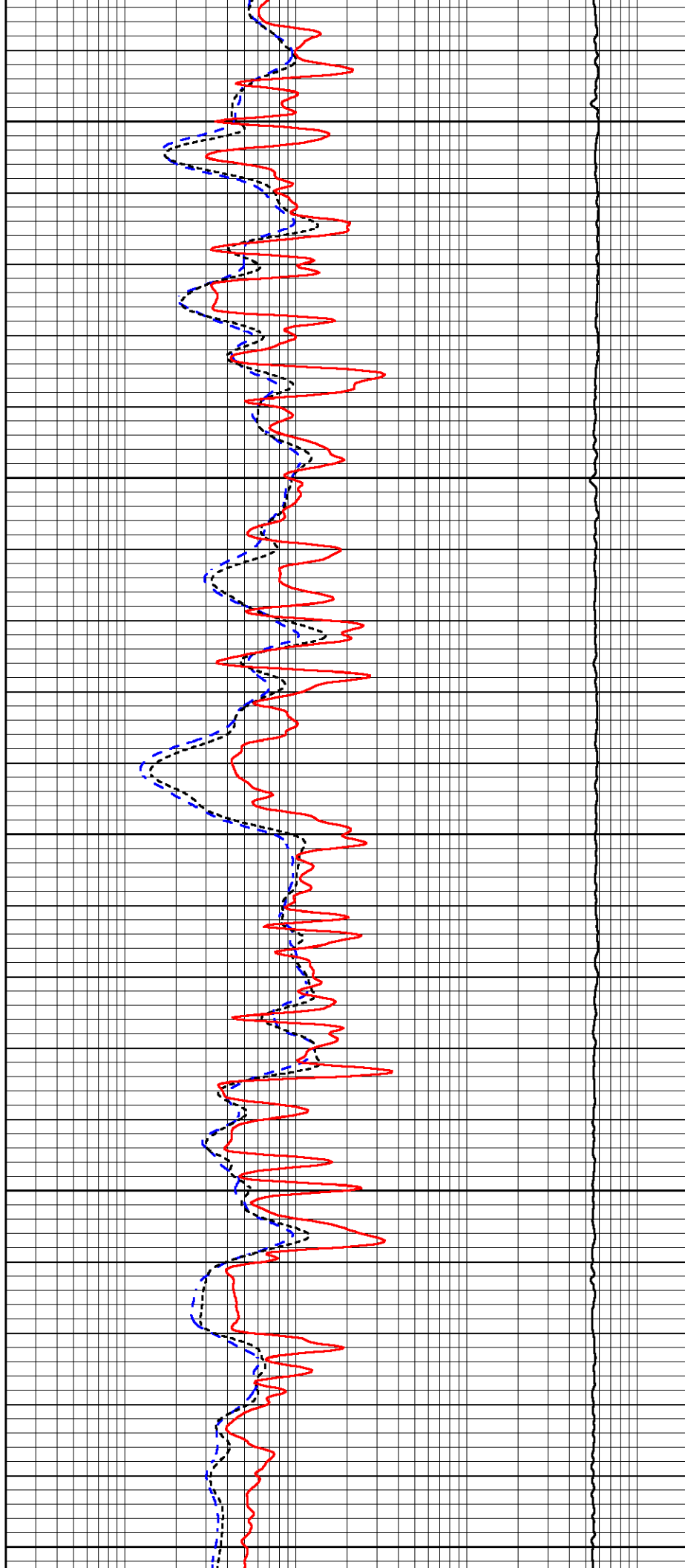
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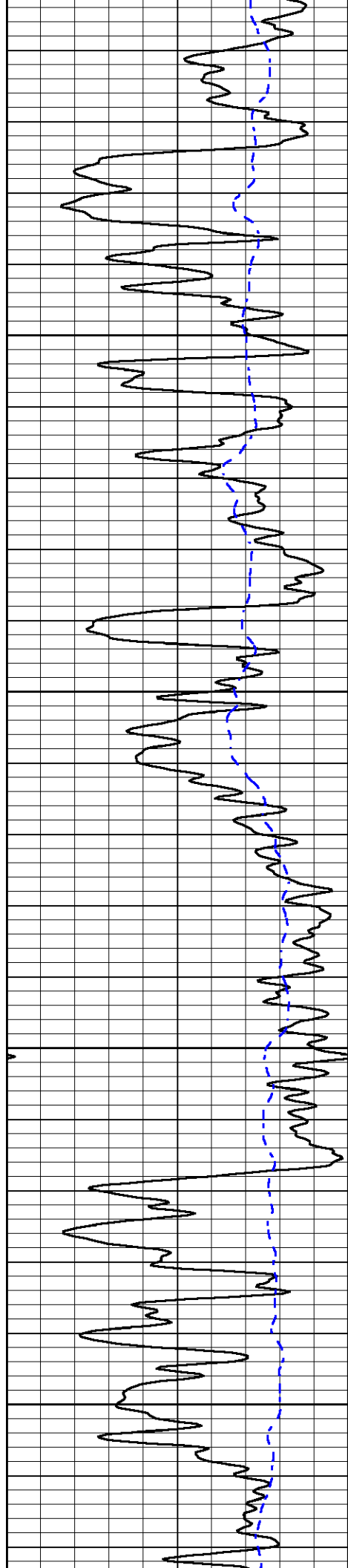
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3000

3050

3100



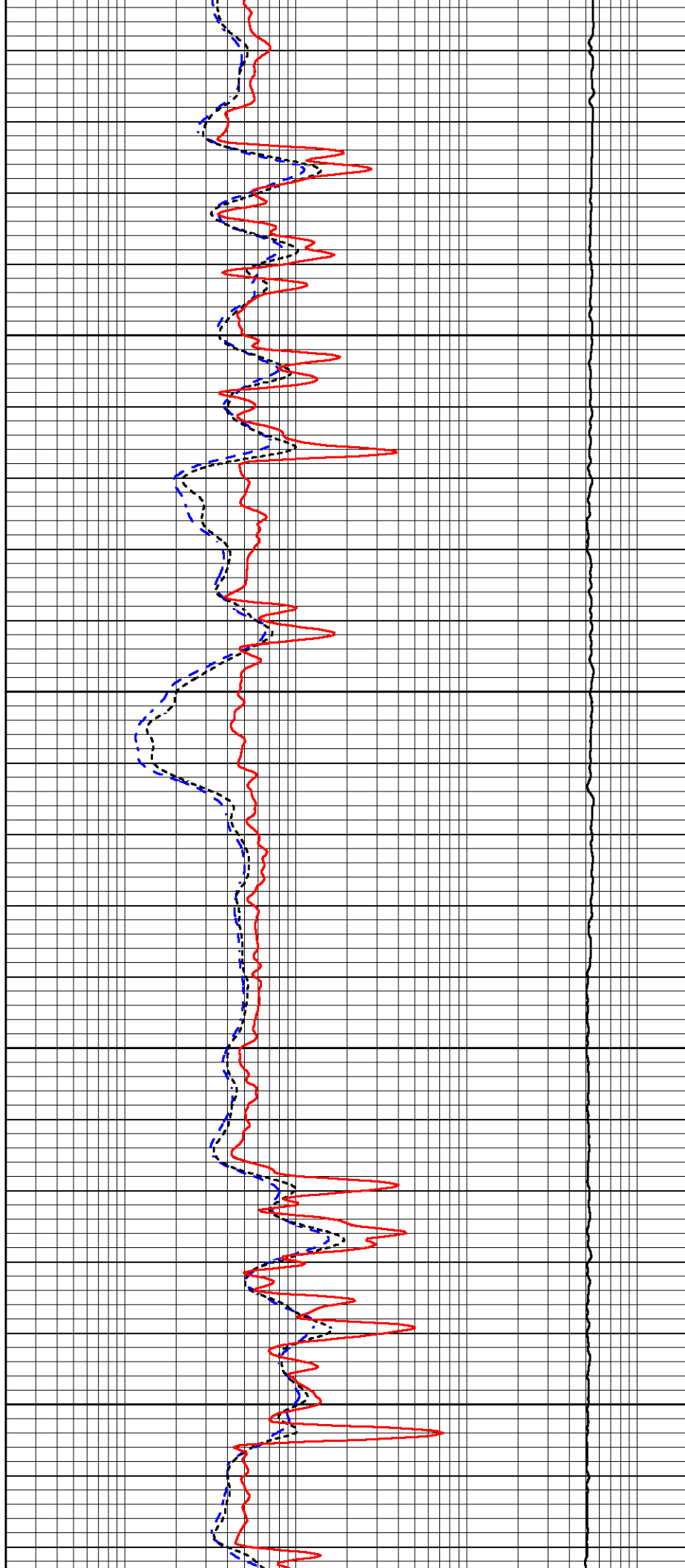


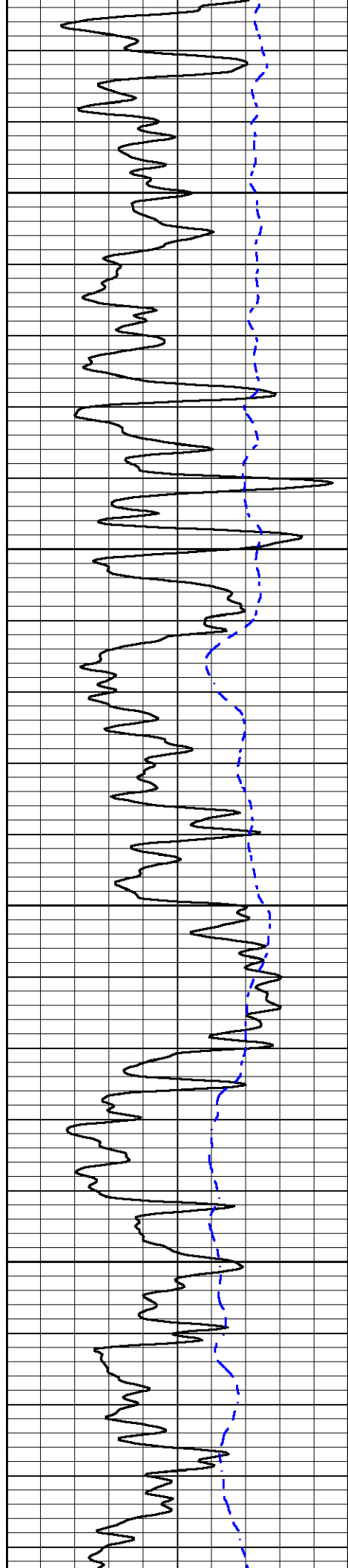
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3200

3250

3300



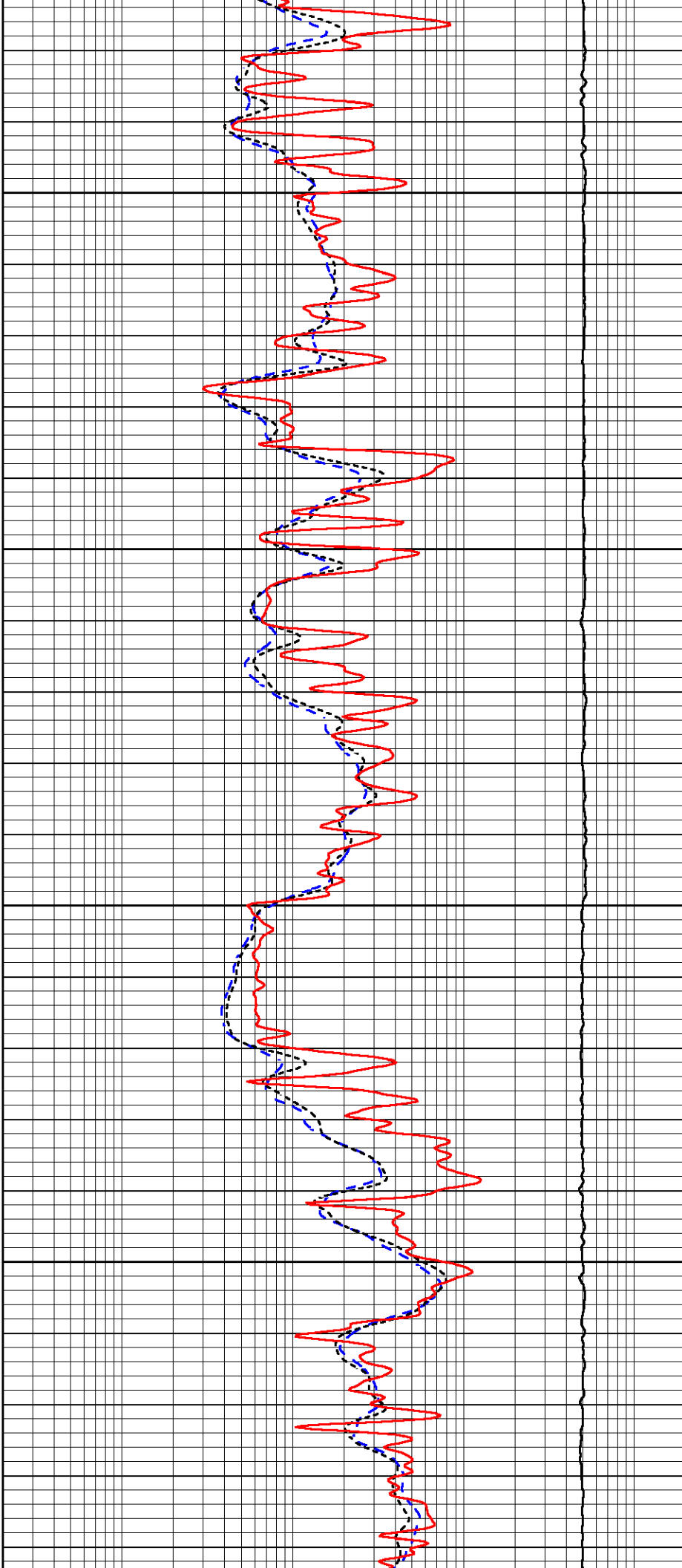


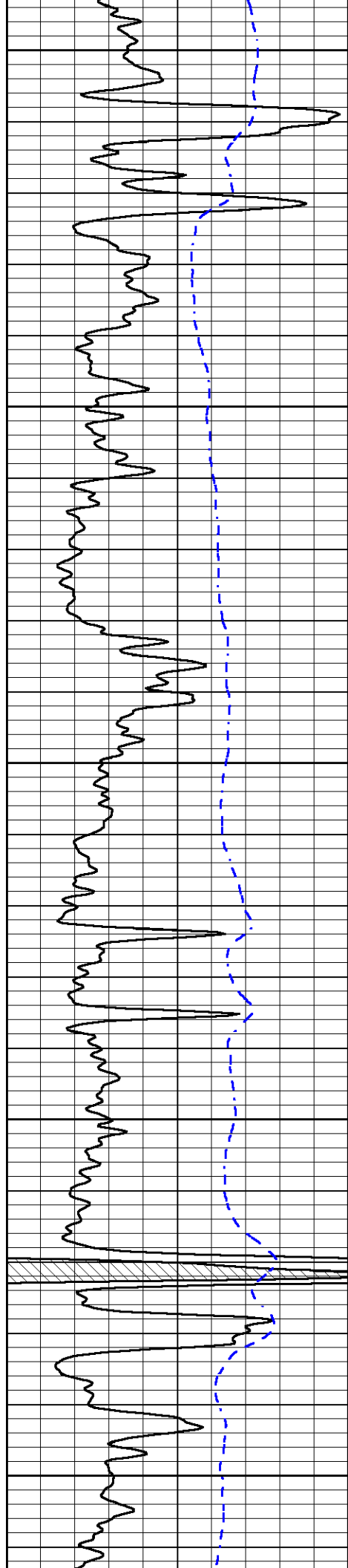
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3450

3500





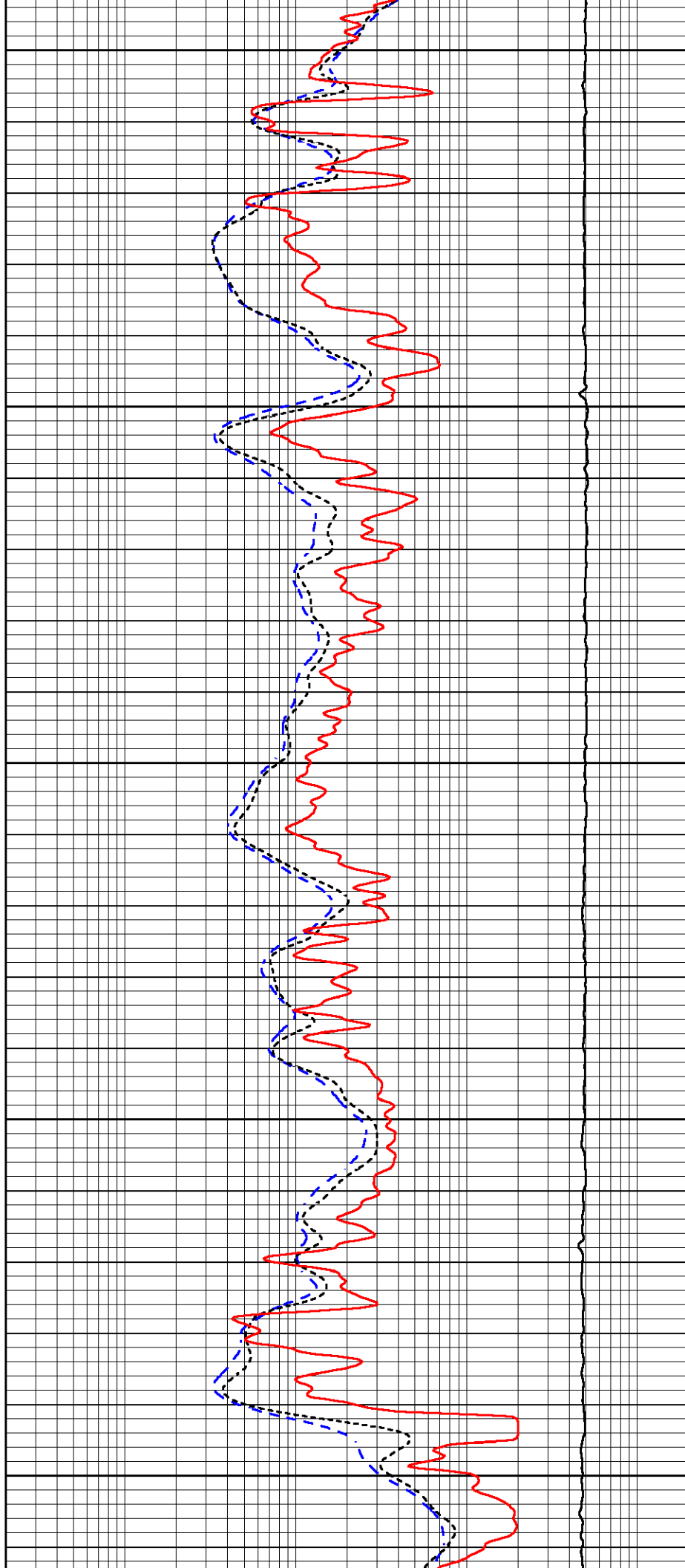
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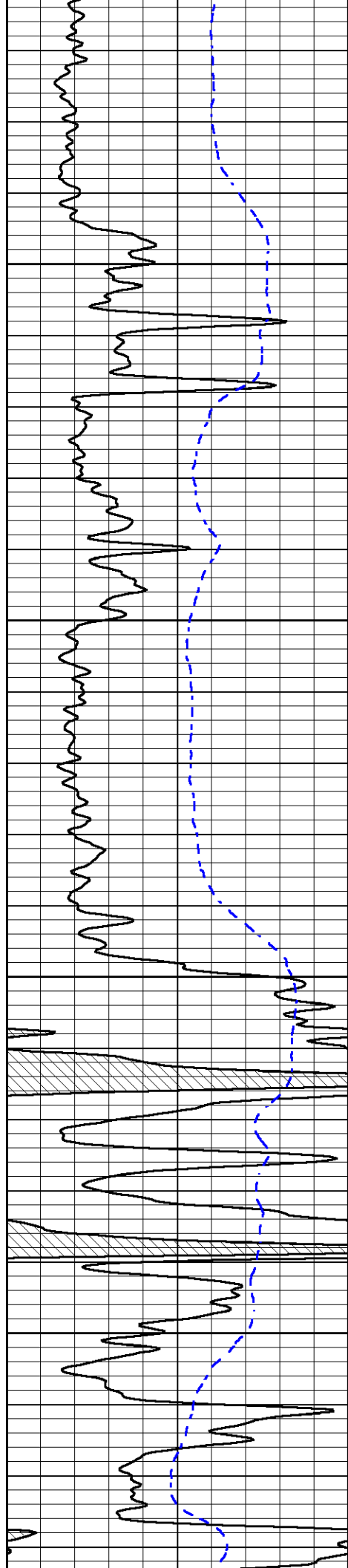
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3650

3700

3750



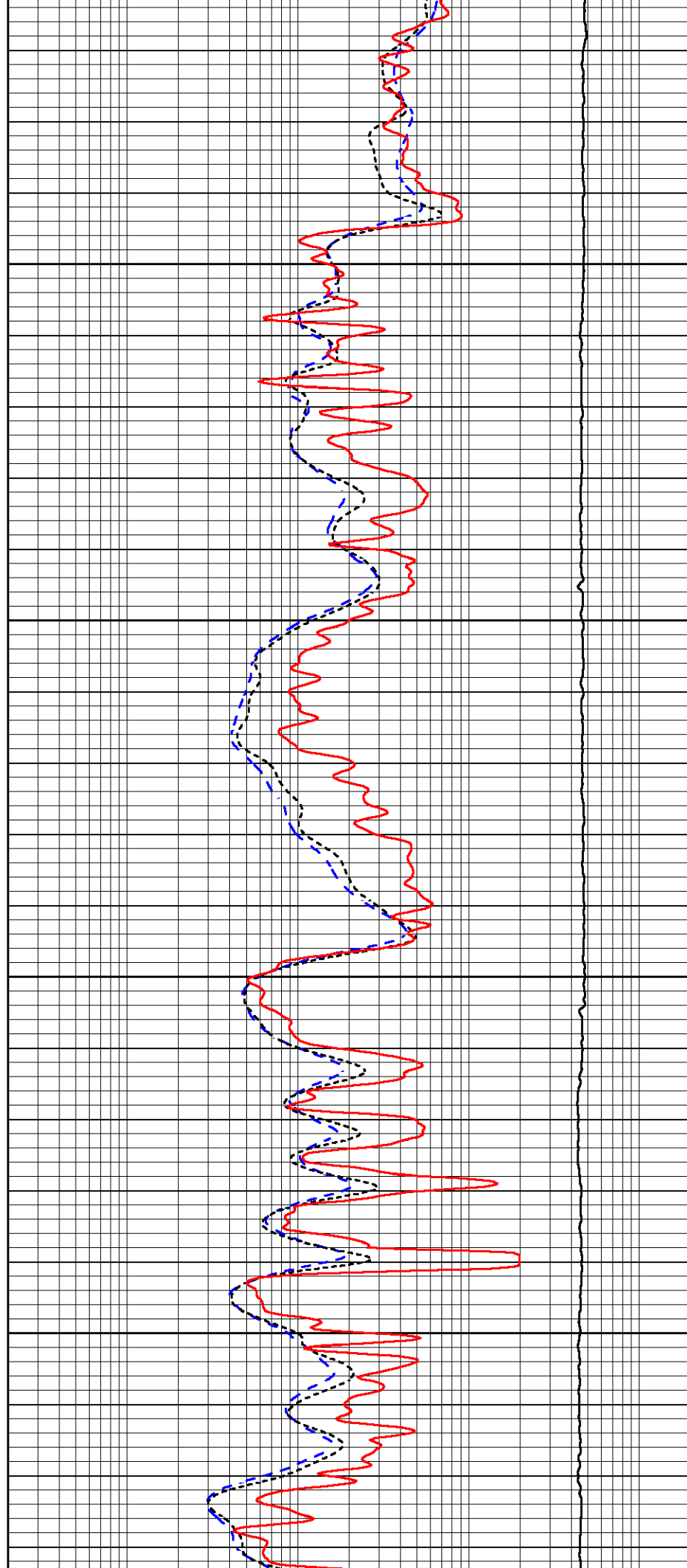


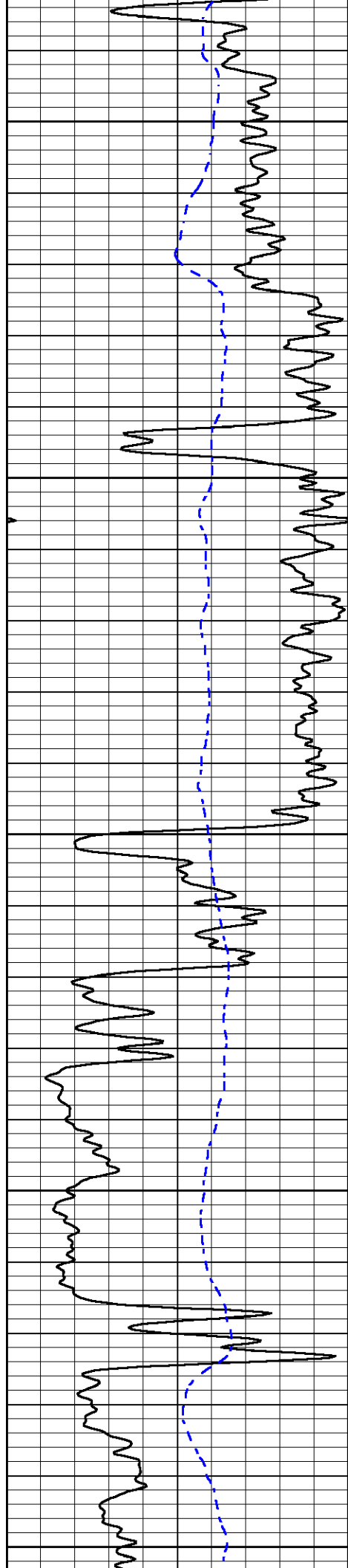
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3900

3950





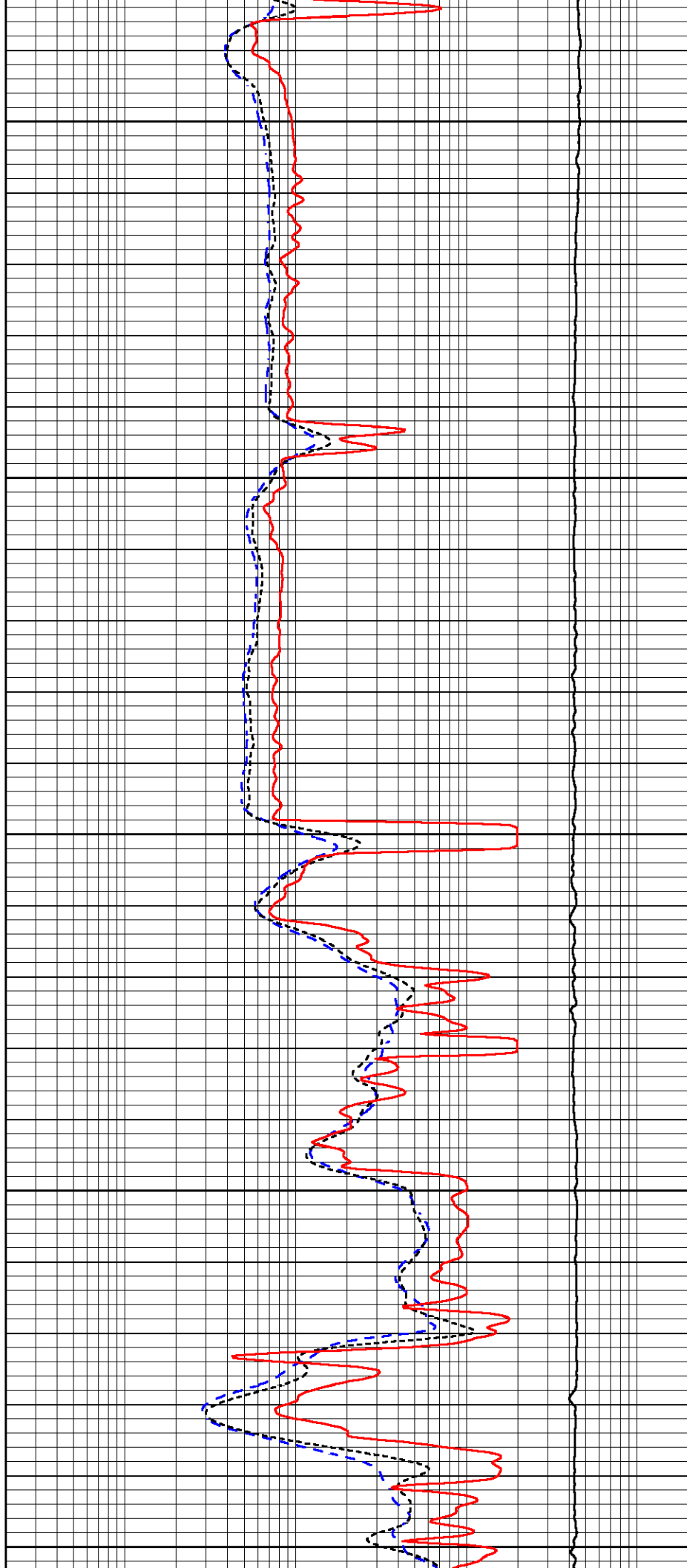
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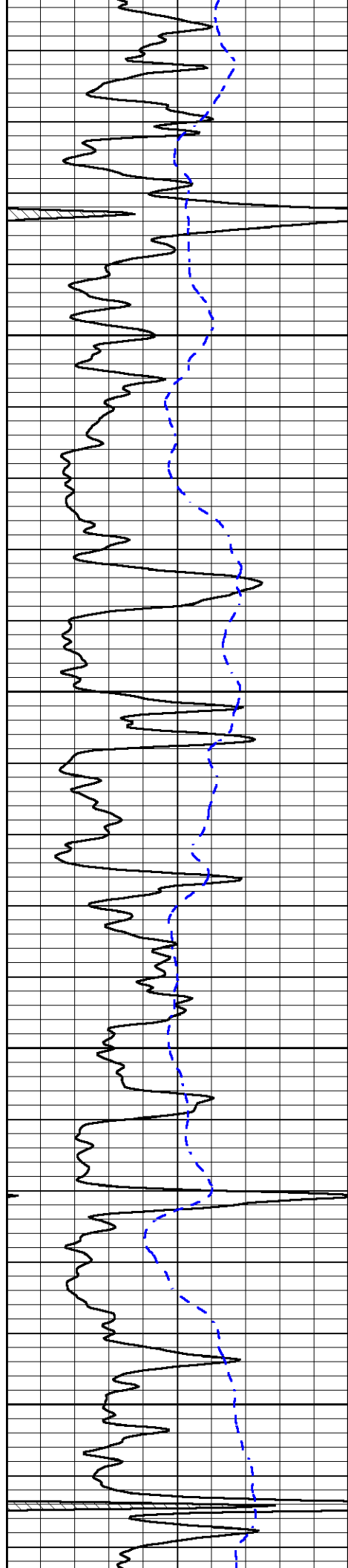
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4100

4150

4200



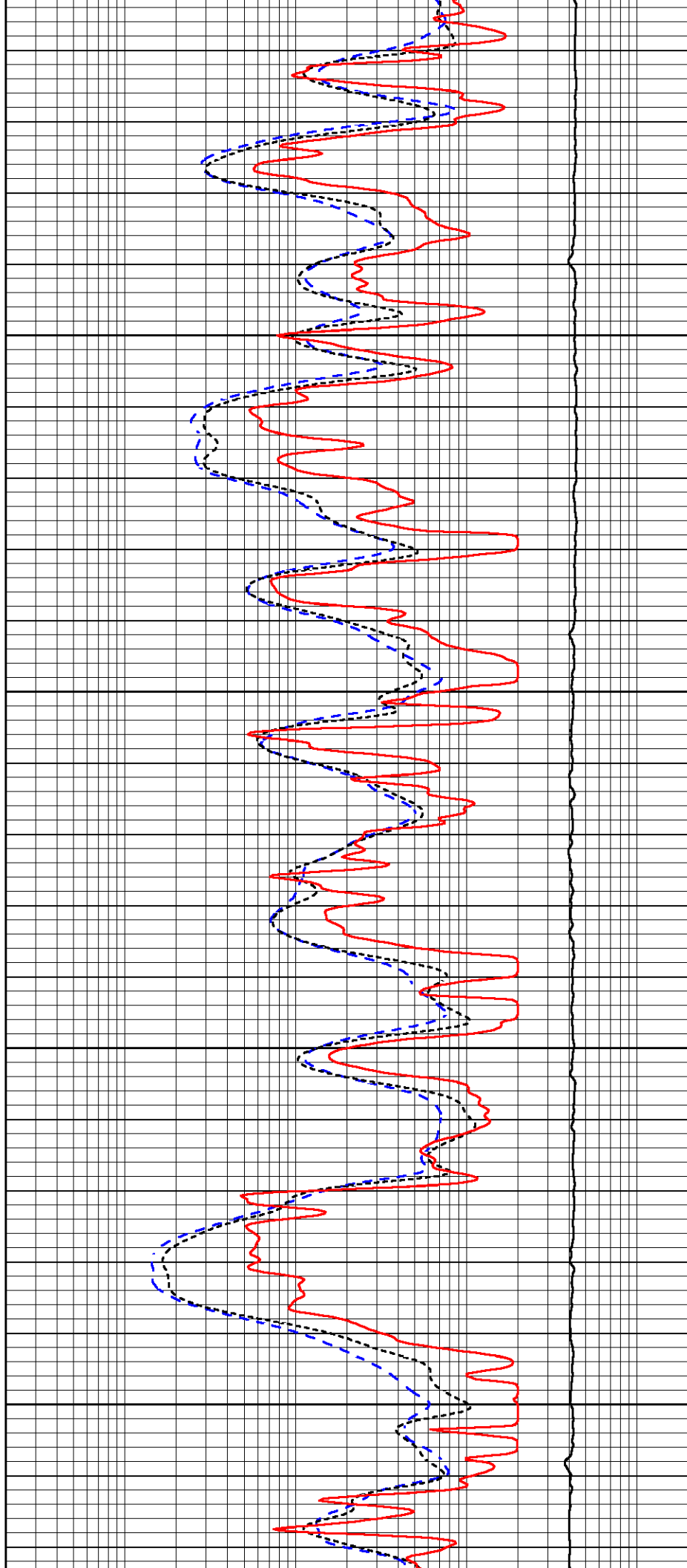


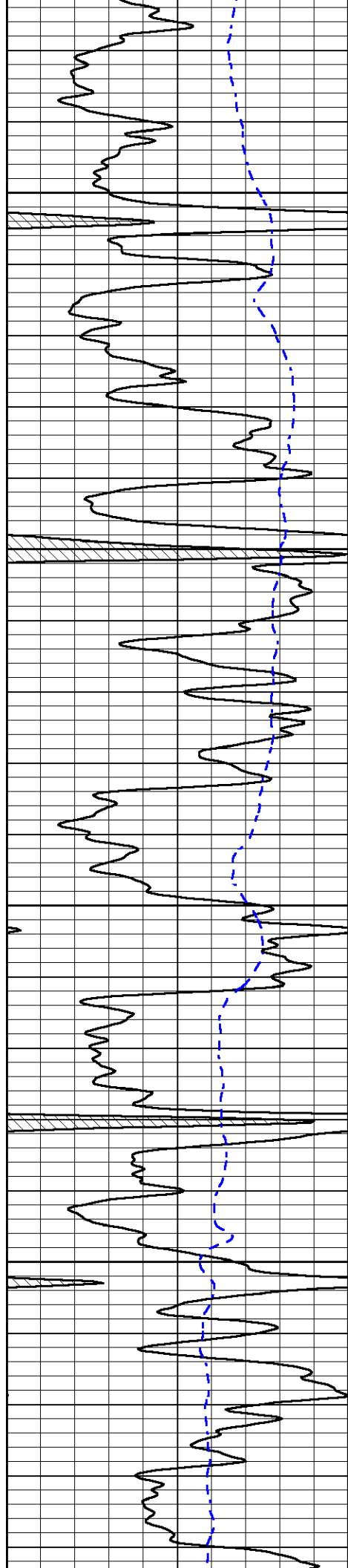
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4300

4350

4400



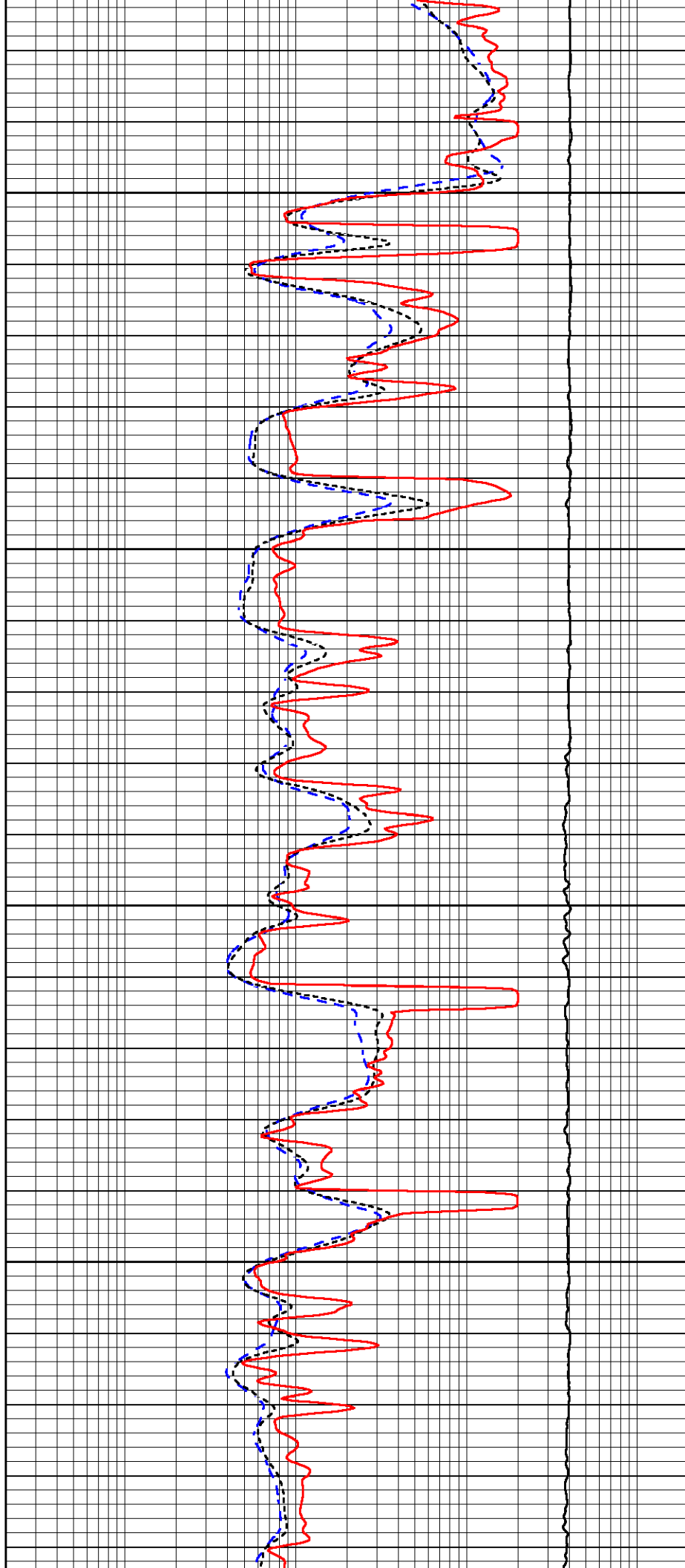


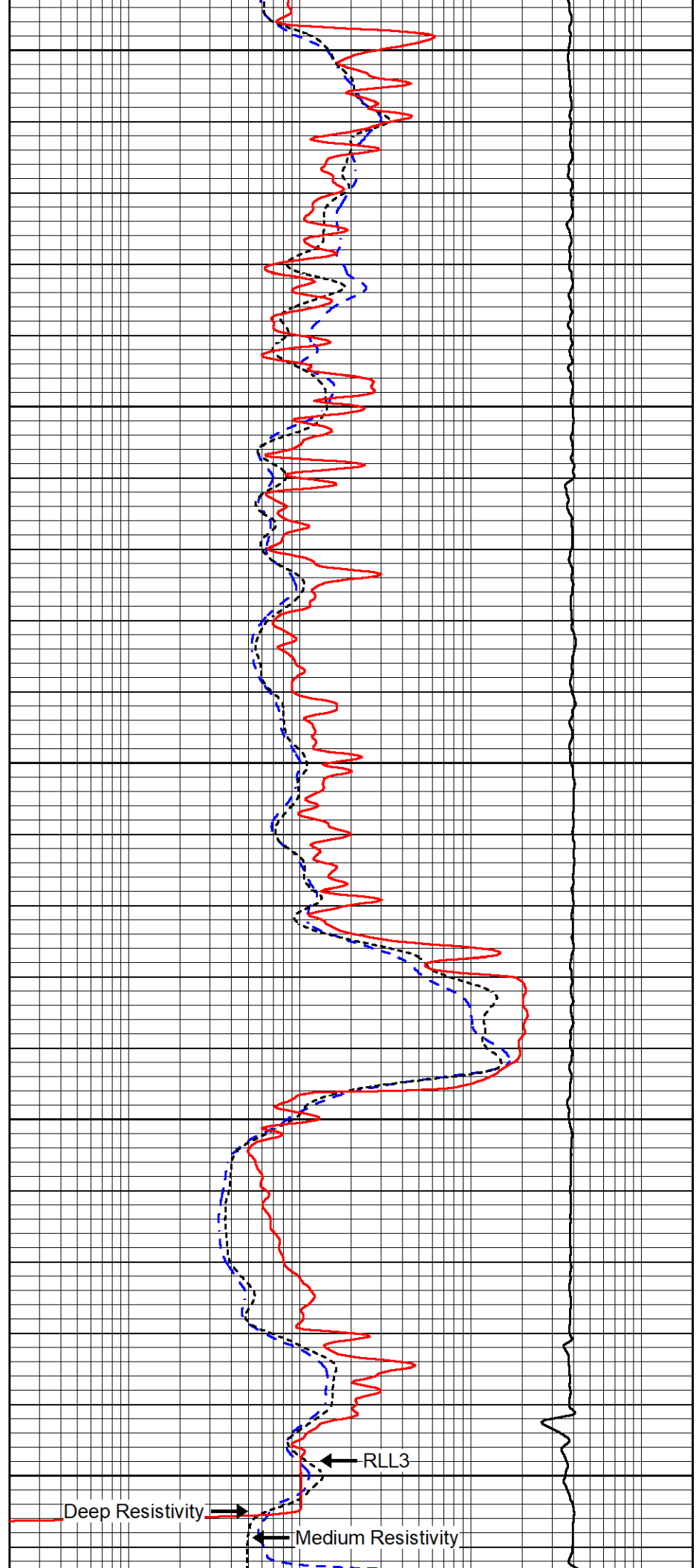
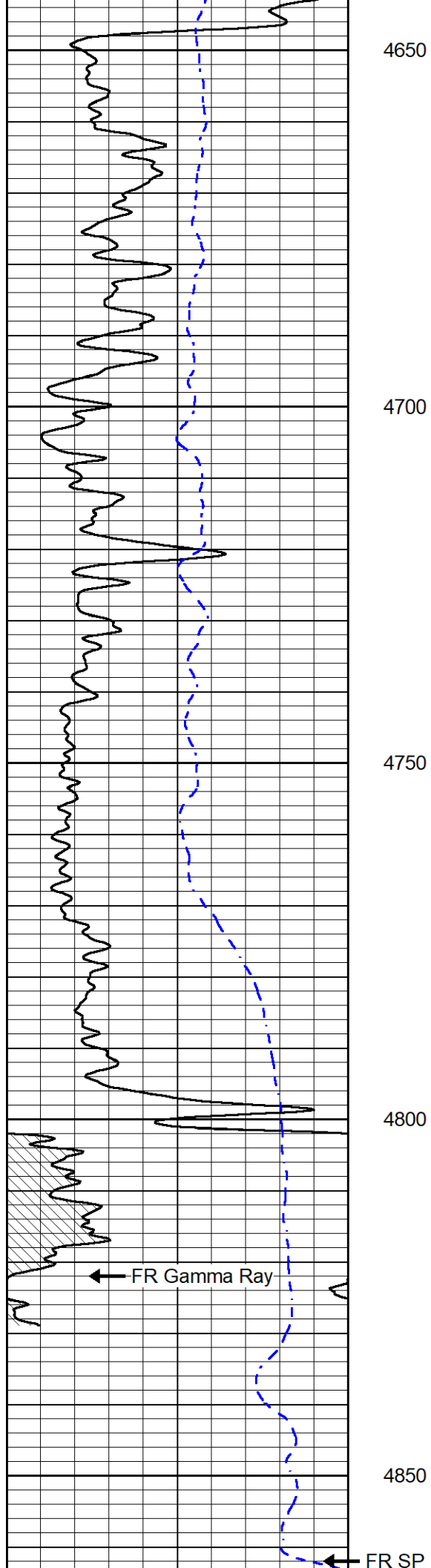
4450

4500

4550

4600





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



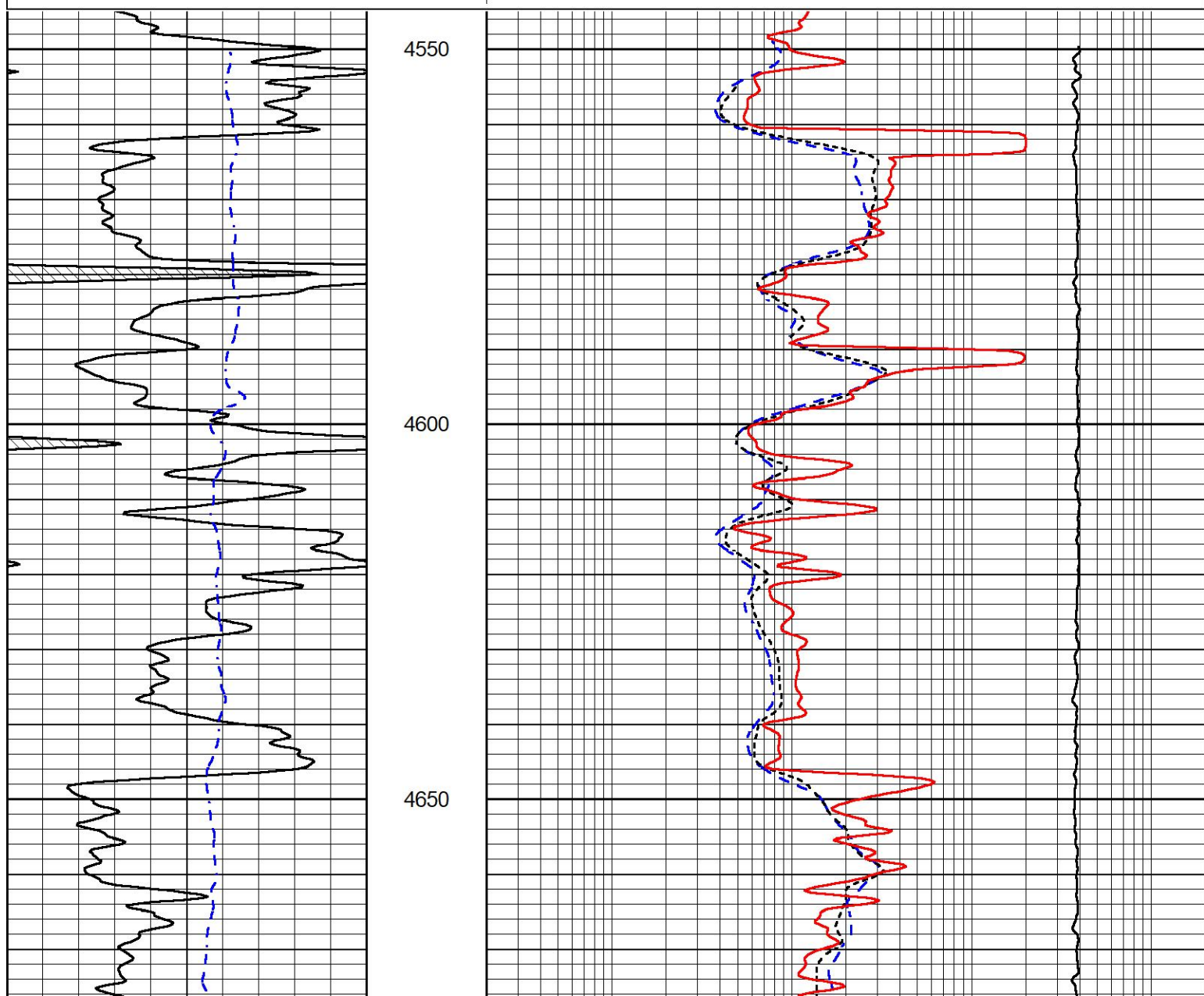
MIDWEST WIRELINE

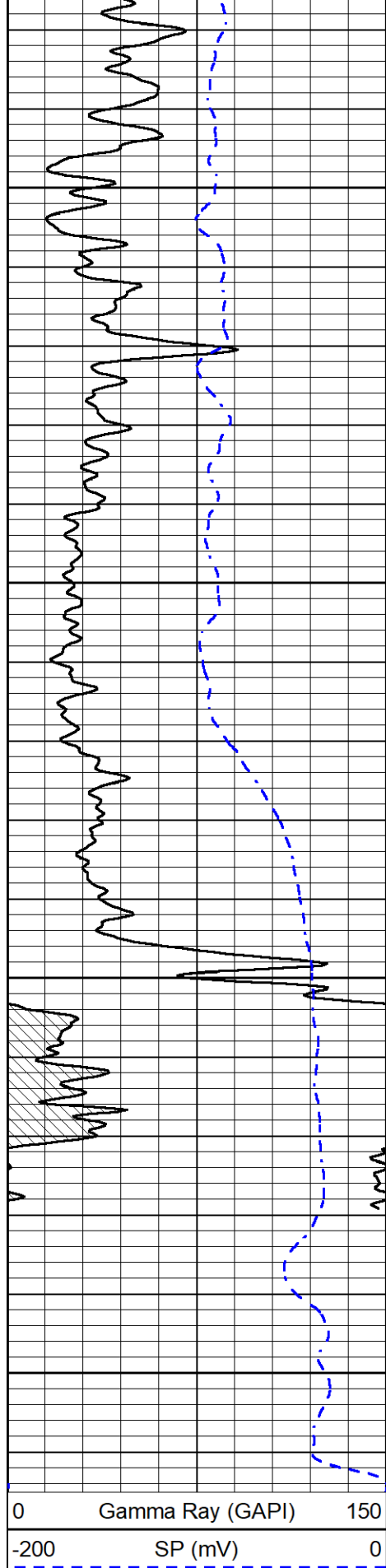
REPEAT SECTION

REPEAT PASS

Database File griffin_monroe 2.db
 Dataset Pathname stkml/pass2.15
 Presentation Format _dil
 Dataset Creation Tue Jun 28 06:56:21 2022
 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





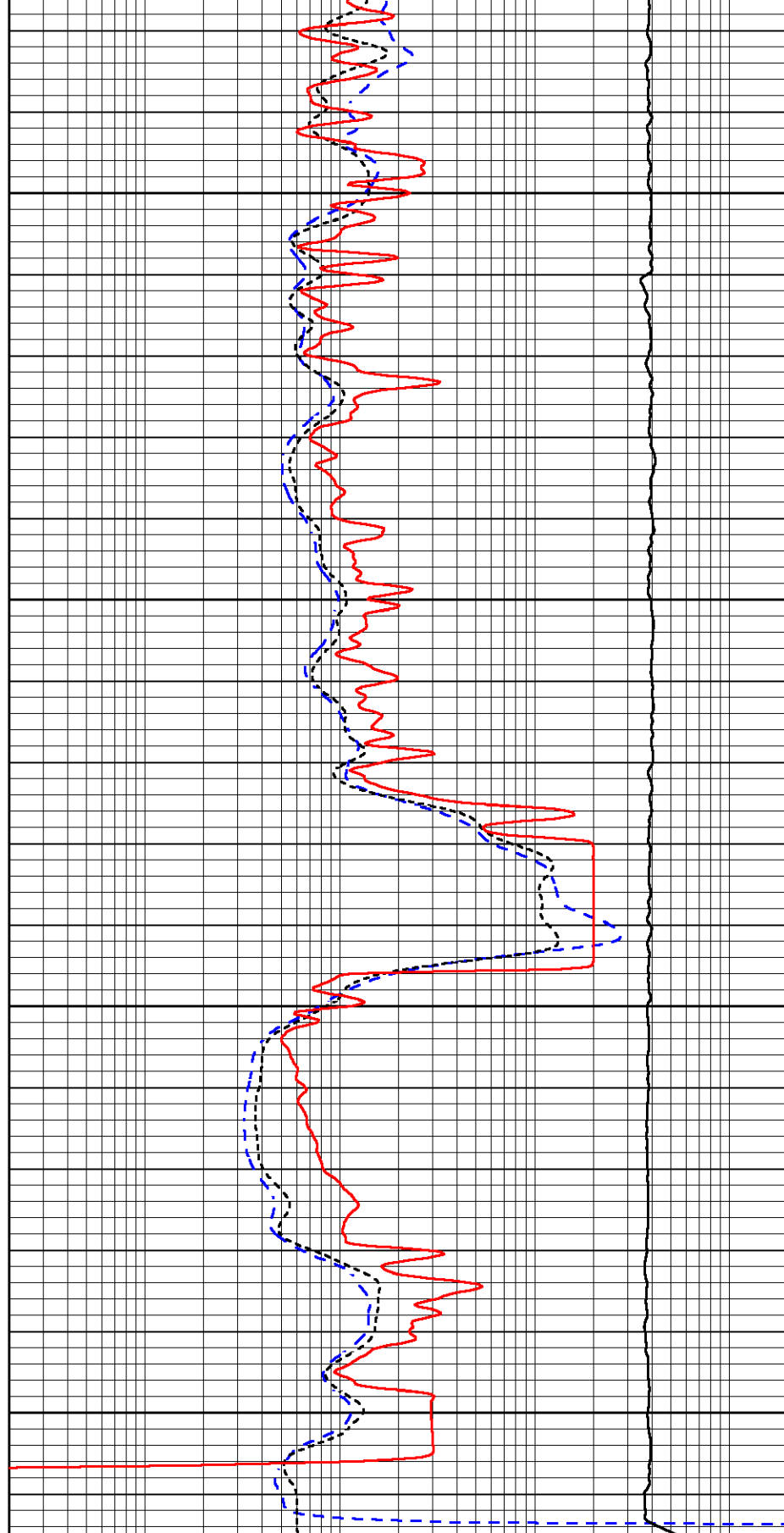
4700

4750

4800

4850

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

Dual Induction Calibration Report							
Serial-Model:				502 HT-M&W			
Surface Cal Performed:				Wed Jun 22 04:33:34 2022			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	83.639	487.104		0.000	183.000	mmho/m	0.454
Medium	113.335	1585.690		0.000	442.000	mmho/m	-34.000

Microlog Calibration Report							
Serial-Model: Performed:				401-PSIML Mon Jun 27 17:53:09 2022			
	Readings		References			Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	18000.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	9000.0000
Caliper	1.0052	1.0858		5.0000	16.5000	in	142.7190
							-138.7250

Compensated Density Calibration Report					
Serial-Model:		302-02-M&W			
Source #:		20762B			
Master Calibration Performed:		Wed Jun 22 01:19:51 2022			
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4422.04	6163.44	cps
Aluminum	2.655	g/cc	835.14	3912.91	cps
Spine Angle = 74.75			Density/Spine Ratio = 0.521		
	Size		Reading		
Small Ring	8.00	in	0.53		
Large Ring	16.00	in	0.60		

Compensated Neutron Calibration Report						
Serial Number:			207-MW			
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

PRE-SURVEY VERIFICATION							
Detector		Readings		Measured		Target	

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	101	
Tool Model:	M&W	
Performed:	Mon Jan 24 19:14:46 2022	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	Griffin Management, LLC
Well	Monroe #2
Field	
County	Pratt
State	Kansas