



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Gore Oil Company		Company Gore Oil Company	
Well Arleta #2-27		Well Arleta #2-27	
Field		Field	
County Trego		County Trego	
State Kansas		State Kansas	
Location: API #: 15-195-23139-00-00		Other Services	
SEC 27 TWP 11S RGE 21W		CNL/CDL MEL/BHCS	
Permanent Datum	Ground Level	Elevation	2311
Log Measured From	Kelly Bushing	K.B.	2319
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2311
Date	6/21/2022		
Run Number	One		
Depth Driller	4073		
Depth Logger	4077		
Bottom Logged Interval	4076		
Top Log Interval	300		
Casing Driller	8.625 @ 308		
Casing Logger	309		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	3400		
Density / Viscosity	9.4 60		
pH / Fluid Loss	10.0 6.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.75 @ 76		
Rmt @ Meas. Temp	0.56 @ 76		
Rmc @ Meas. Temp	1.01 @ 76		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.49 @ 117		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	117		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Marc Downing		

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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.

I-70 & Riga Rd, 6.5 N to F Rd,
1/2 N, E into at TB

Log Measured From: Kelly Bushing 8 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: Marc Downing
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gore_arleta #2-27.db
Dataset field/well/StkMI/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	117	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	60	80		4077

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

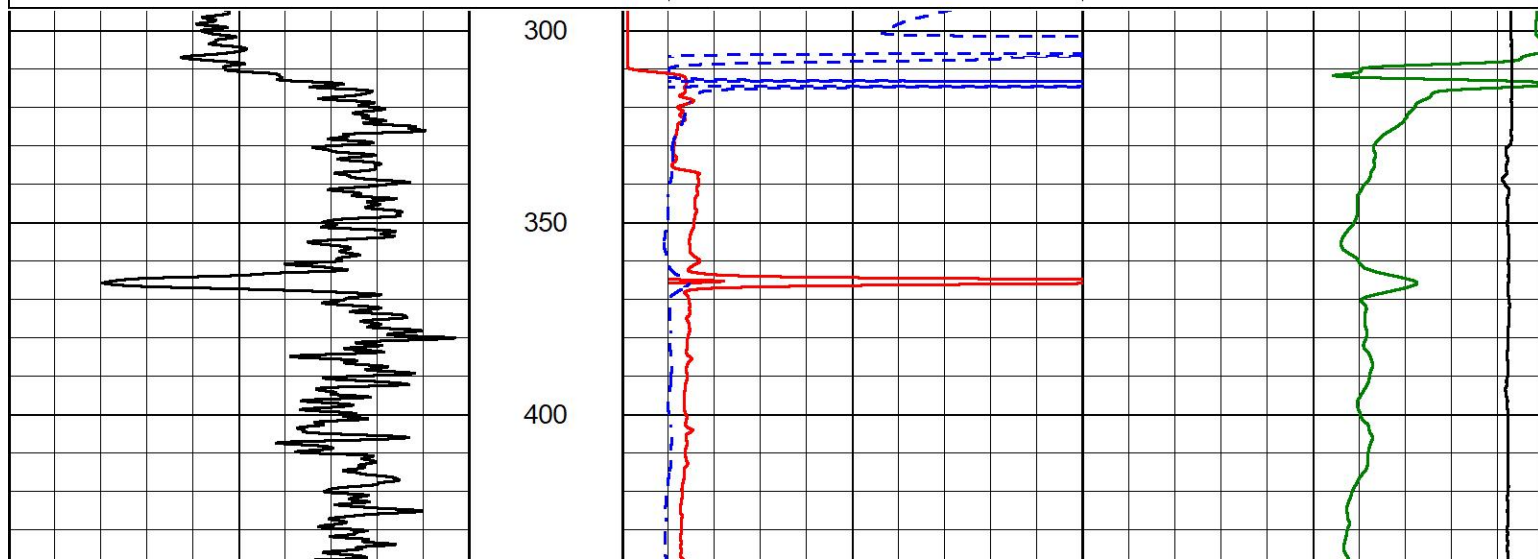


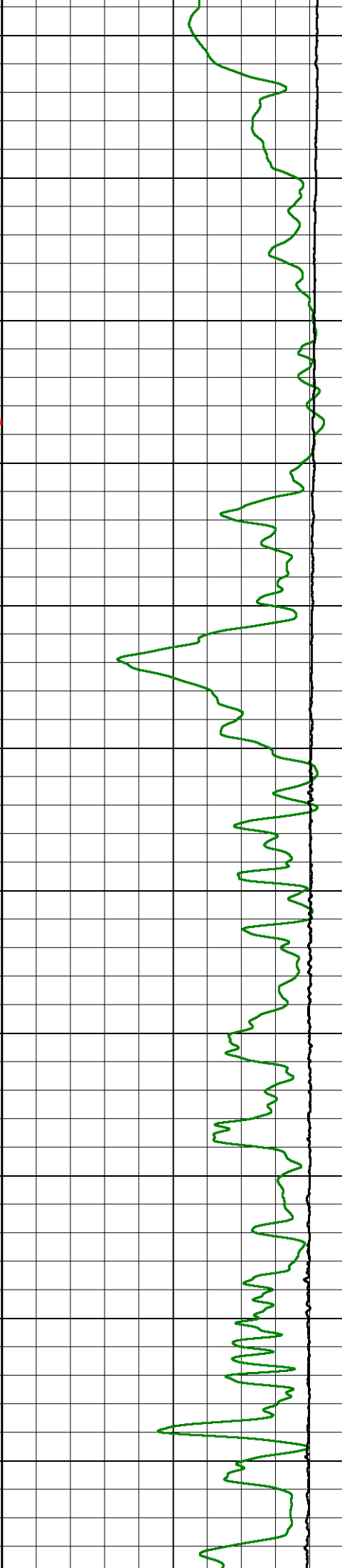
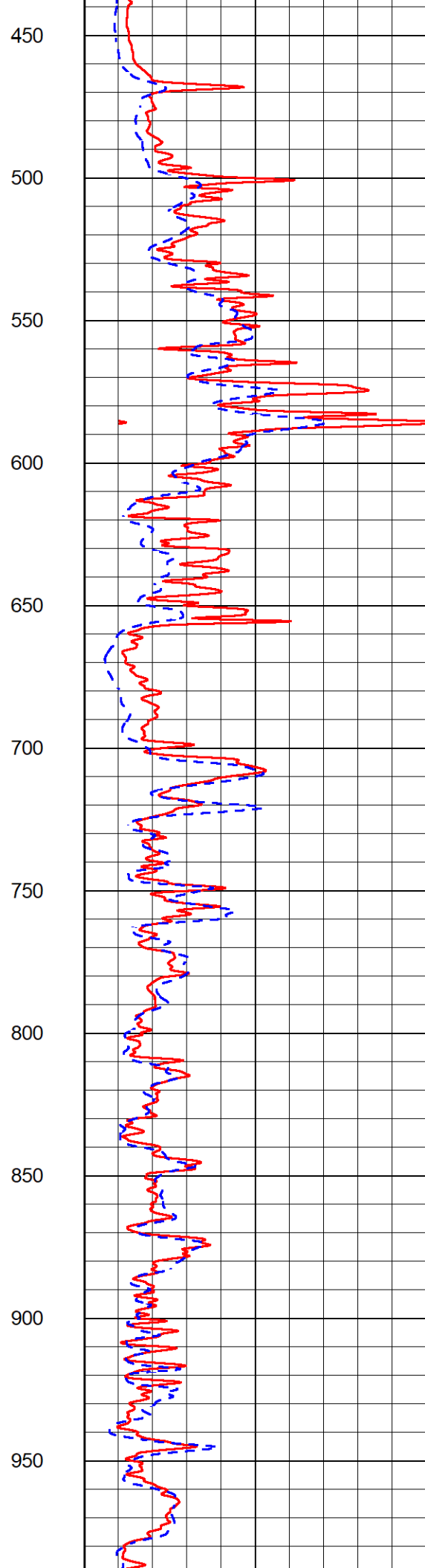
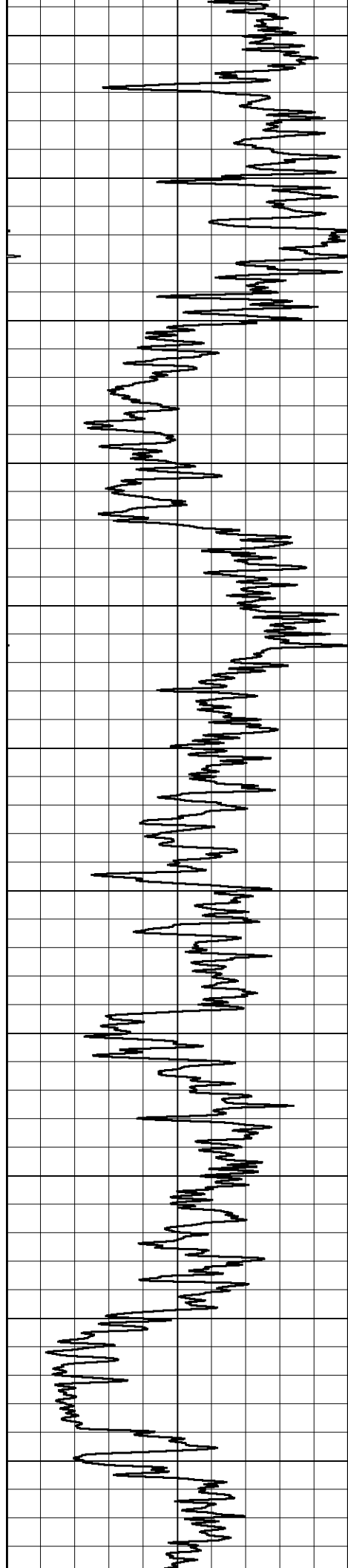
2" SCALE RESISTIVITY

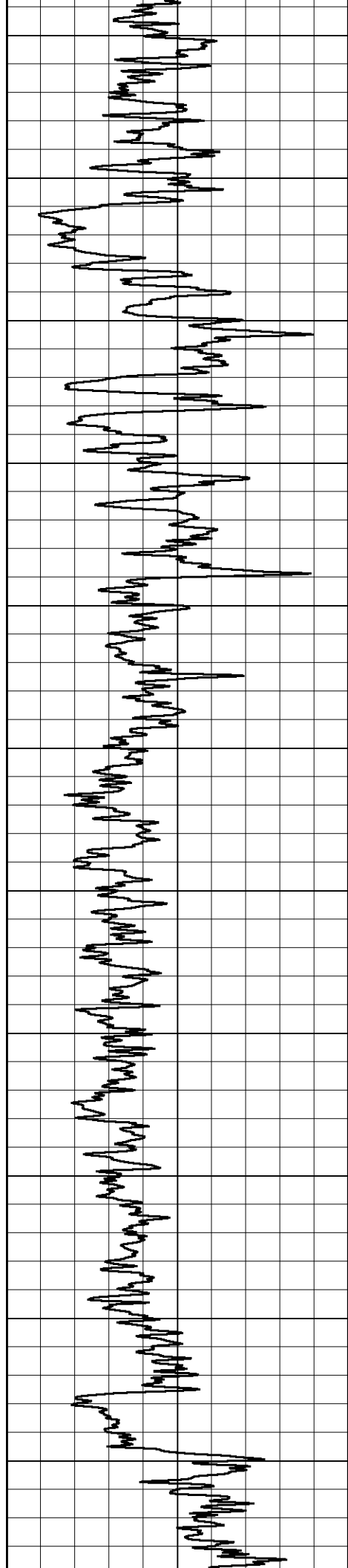
MAIN PASS

Database File gore_arleta #2-27.db
Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Tue Jun 21 10:36:29 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	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







1000

1050

1100

1150

1200

1250

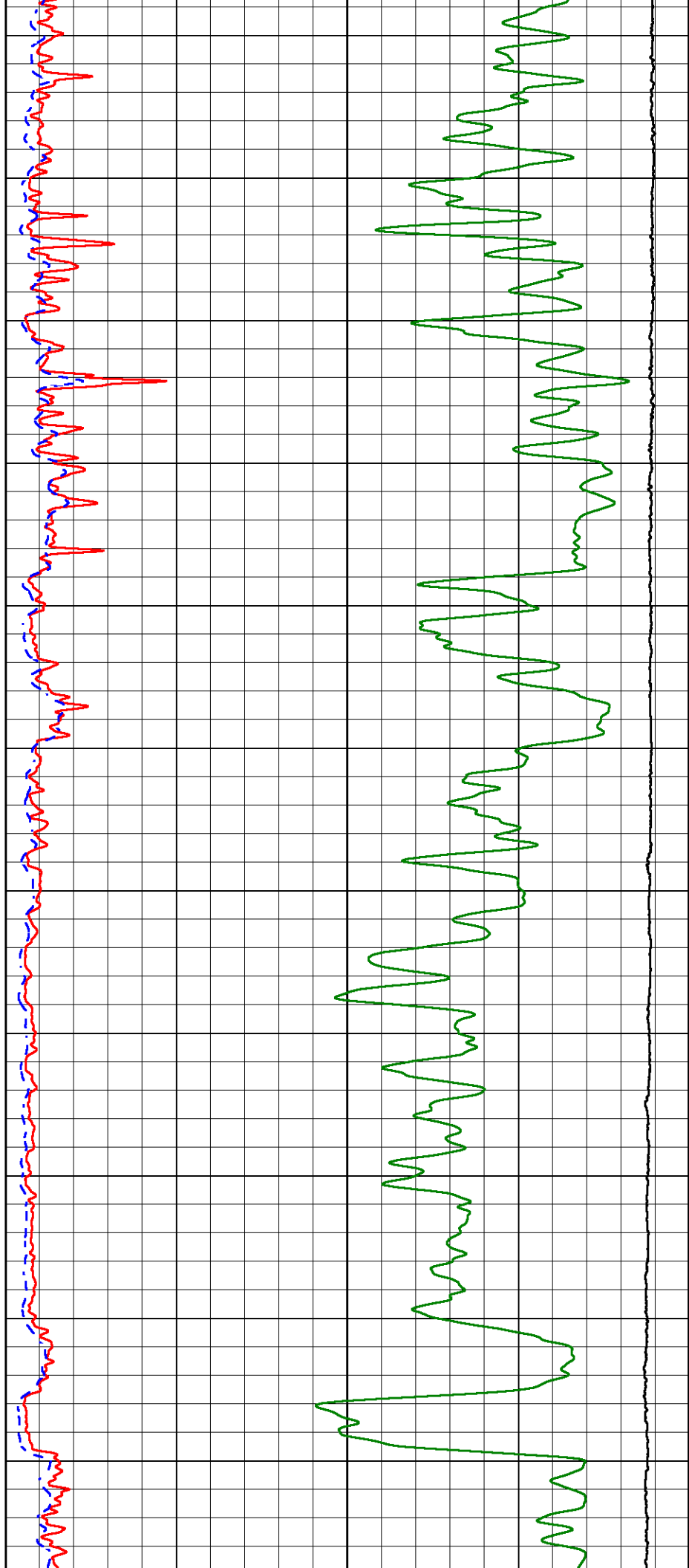
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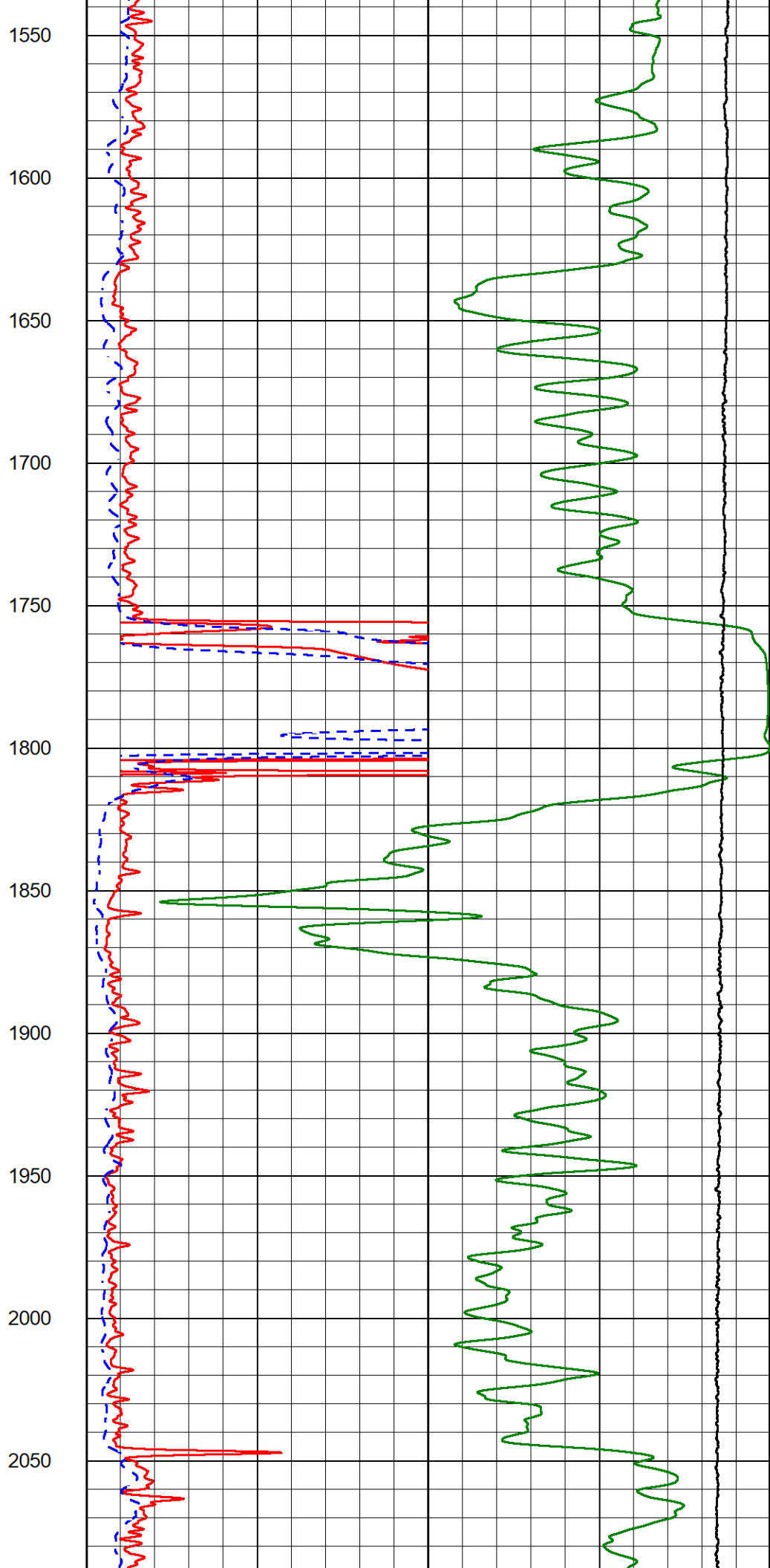
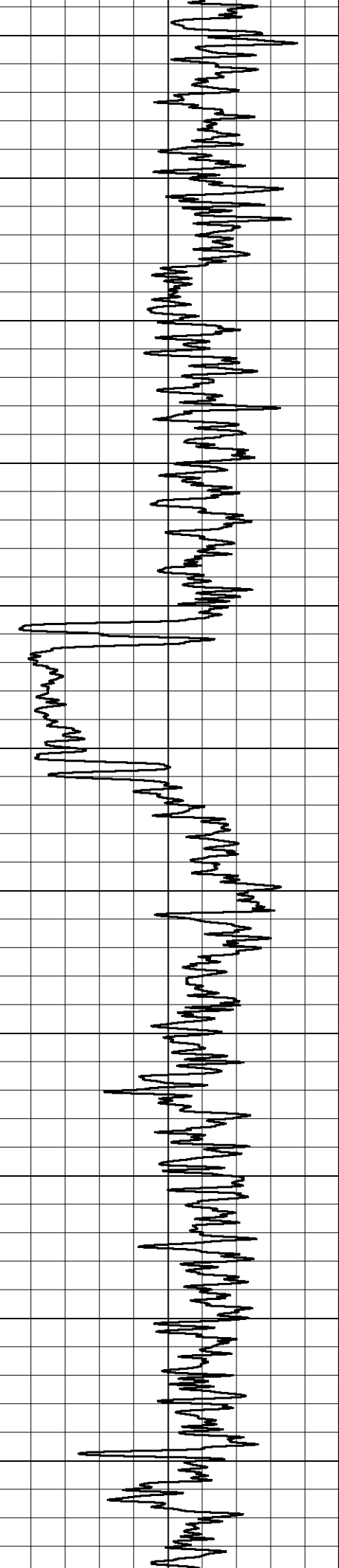
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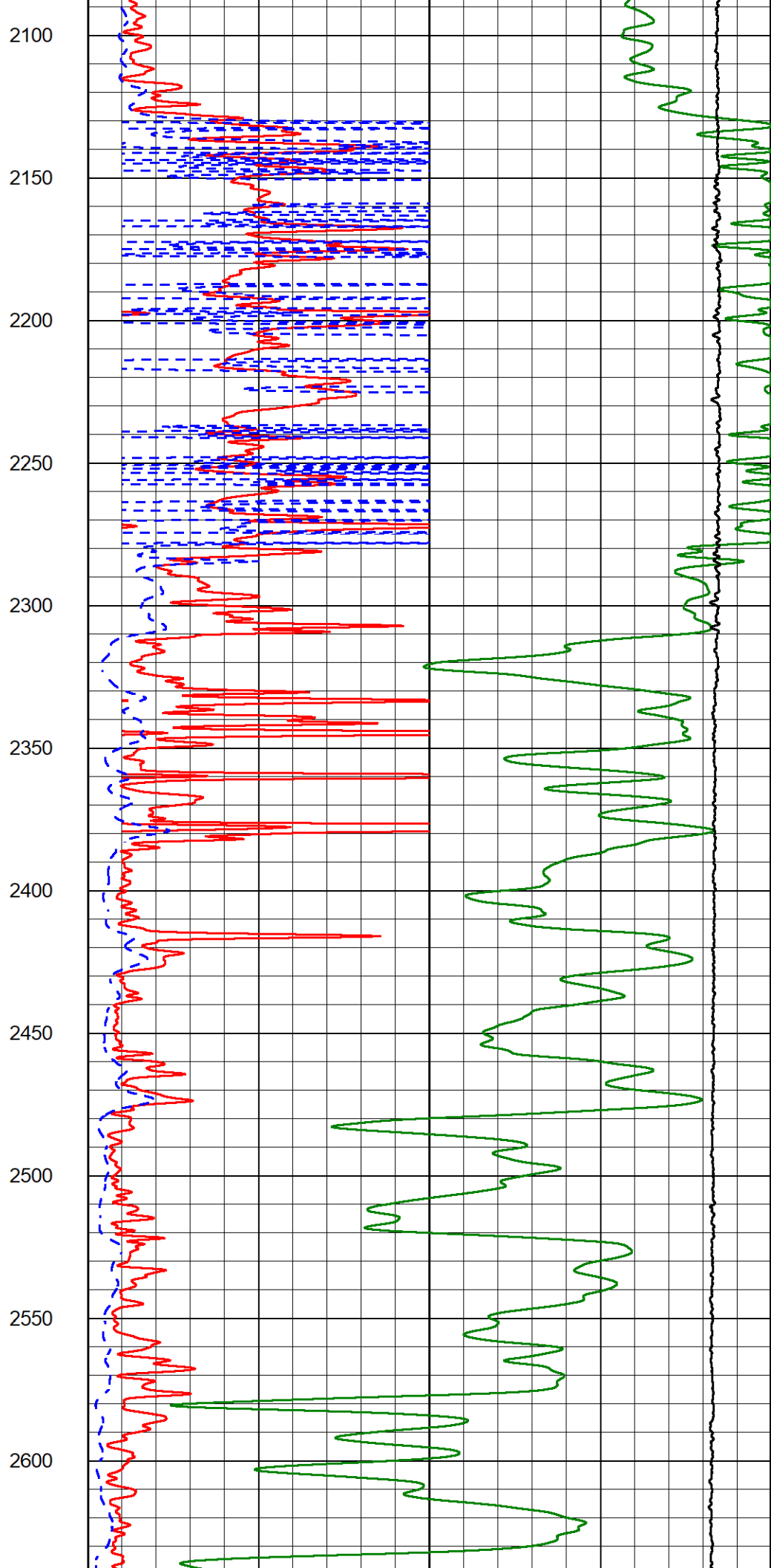
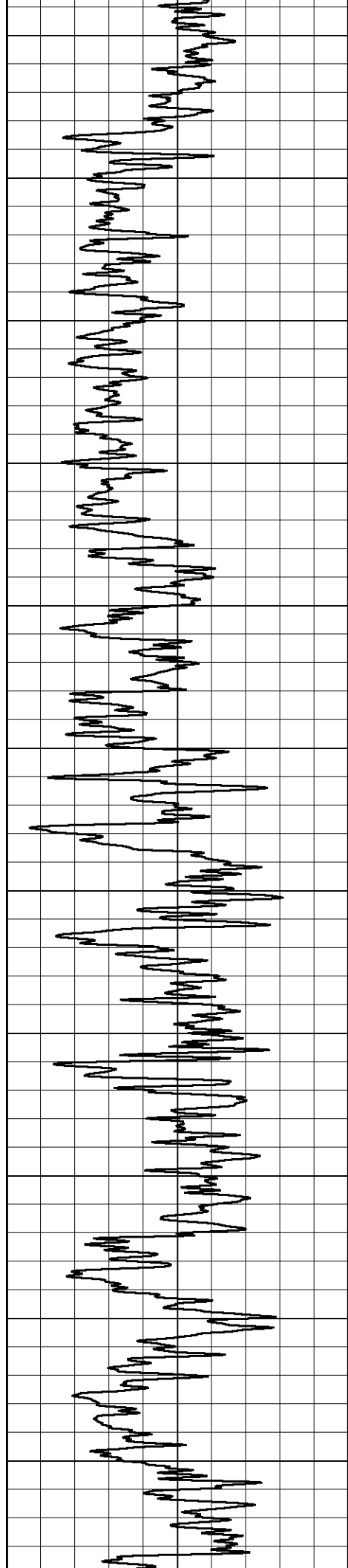
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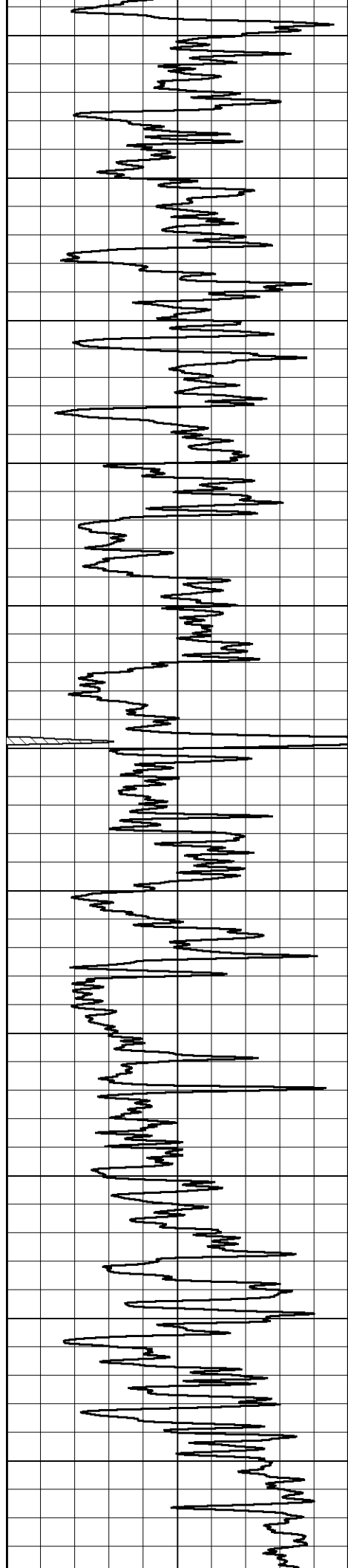
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1500









2650

2700

2750

2800

2850

2900

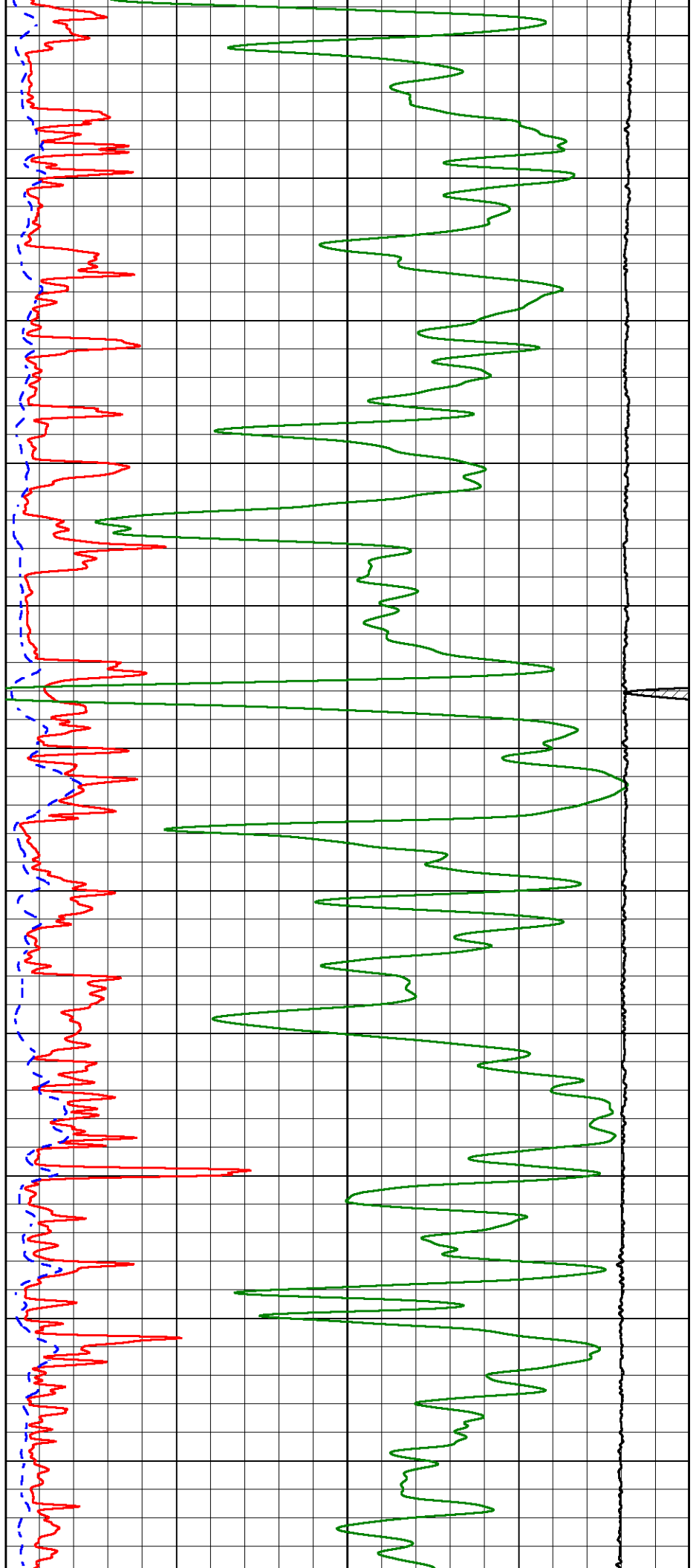
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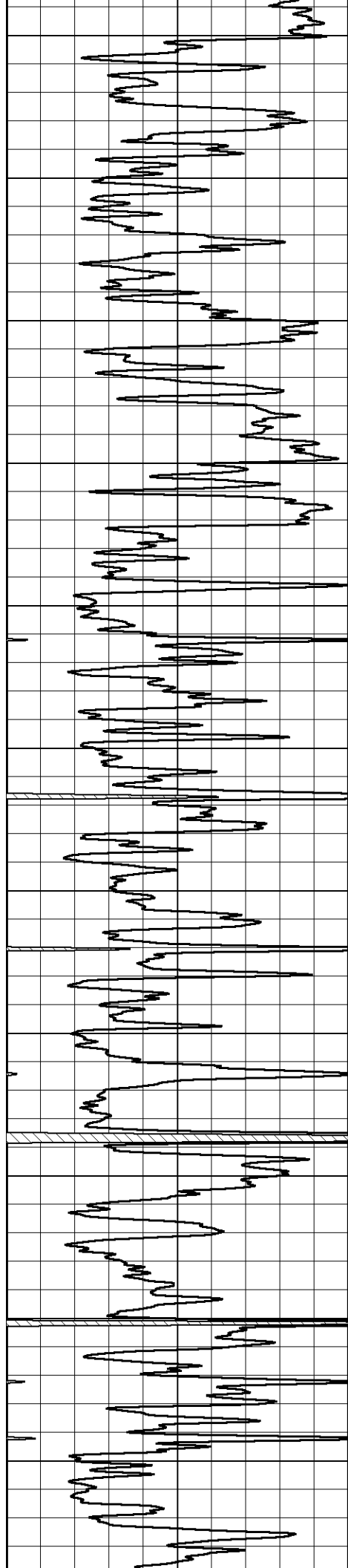
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3050

3100

3150





3200

3250

3300

3350

3400

3450

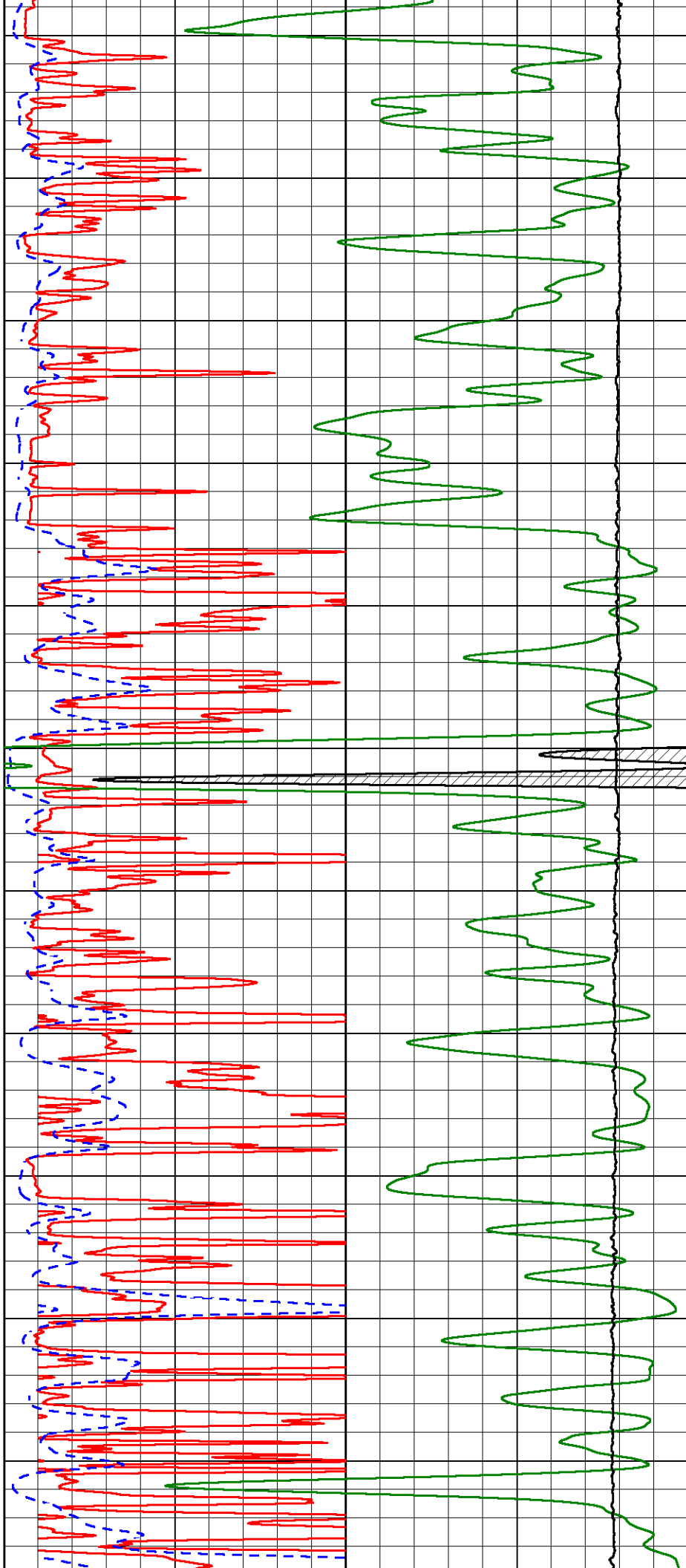
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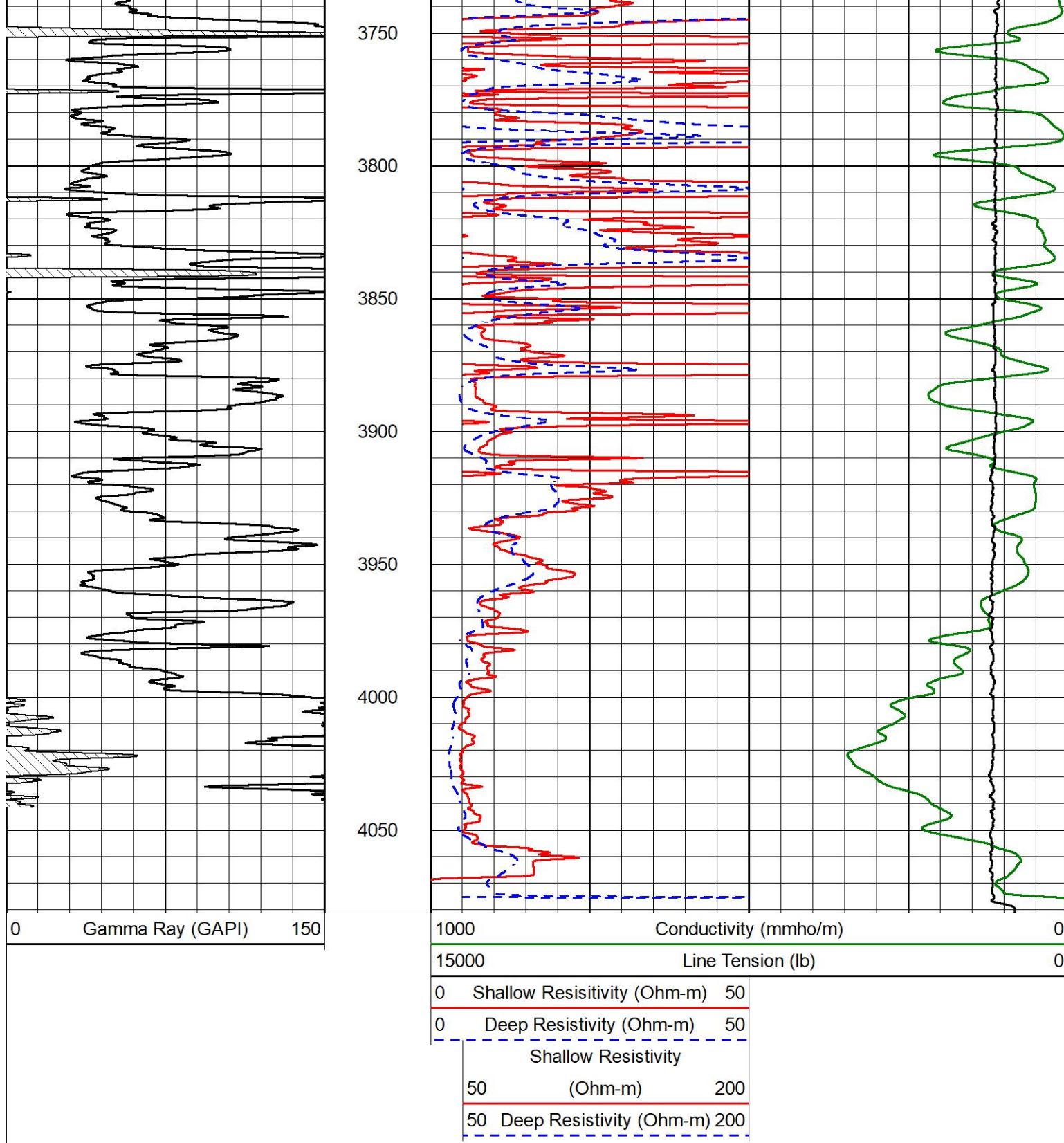
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3600

3650

3700

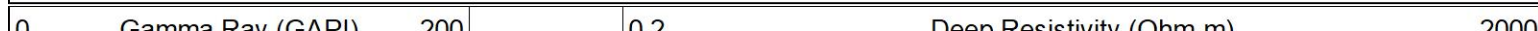




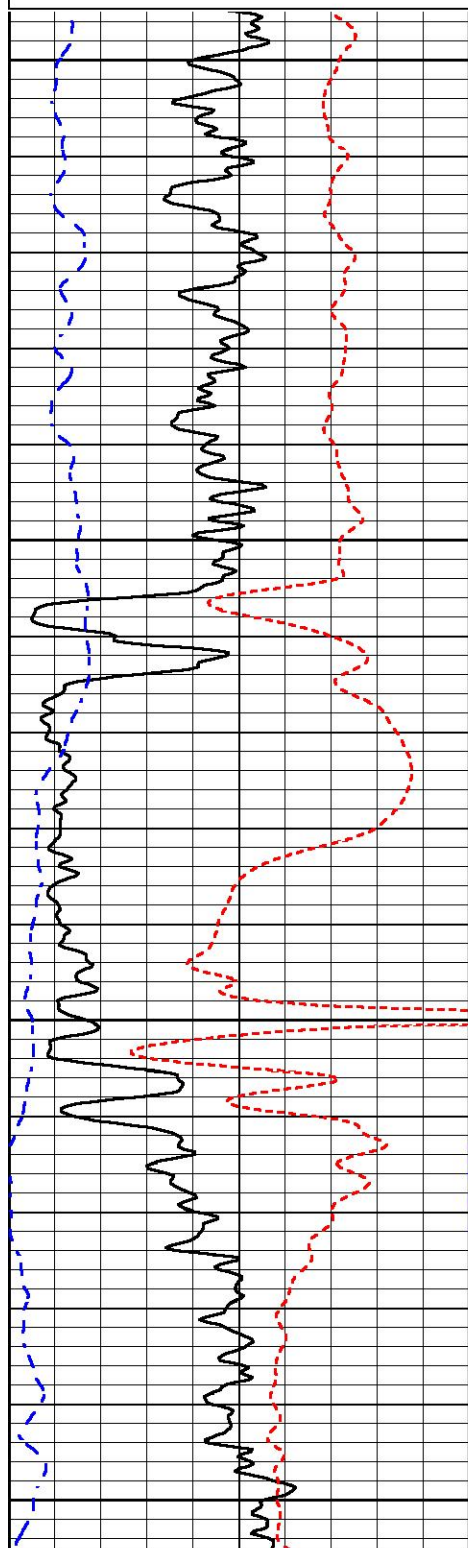
ANHYDRITE SECTION

MAIN PASS

Database File gore_arleta #2-27.db
 Dataset Pathname StkMI/pass3.4
 Presentation Format _dil
 Dataset Creation Tue Jun 21 10:19:02 2022
 Charted by Depth in Feet scaled 1:240



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



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

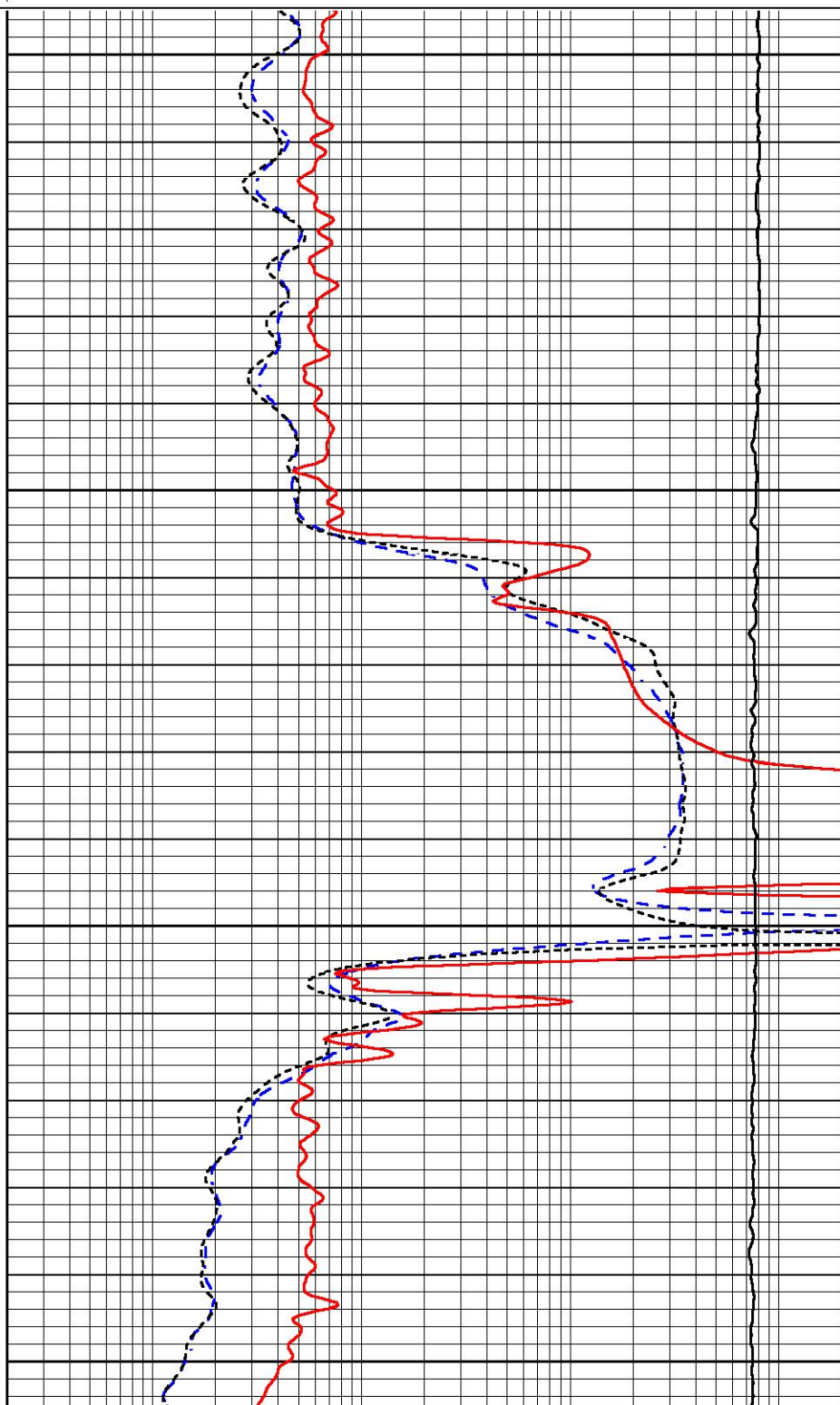
1700

1750

1800

1850

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



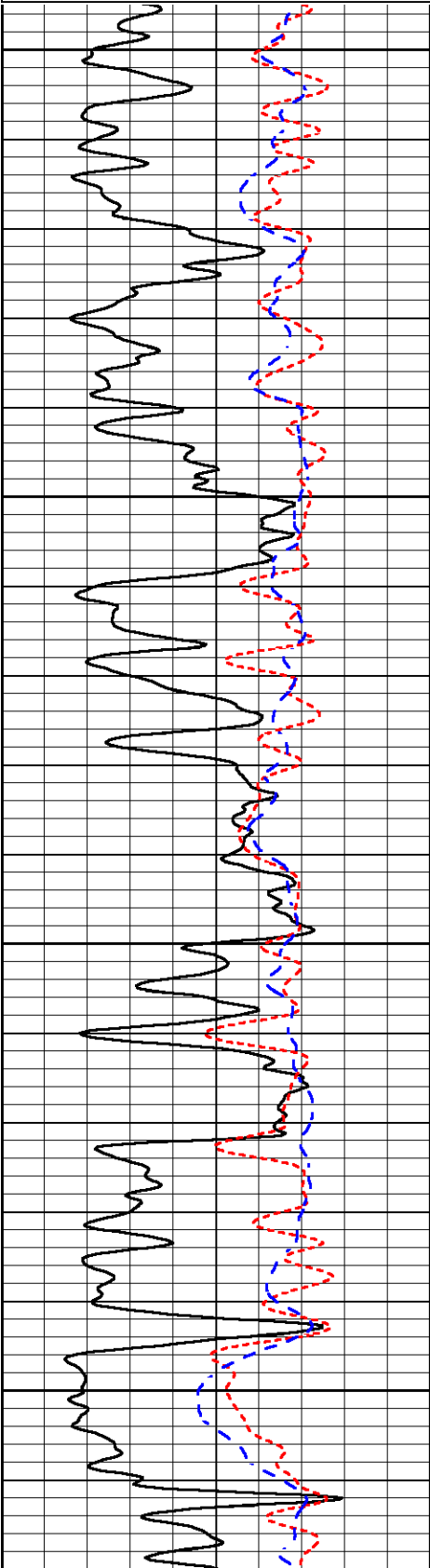
DETAIL SECTION

MAIN PASS

Database File gore_arleta #2-27.db
Dataset Pathname StkMI/pass3.1
Presentation Format _dil
Dataset Creation Tue Jun 21 10:36:38 2022
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200
-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

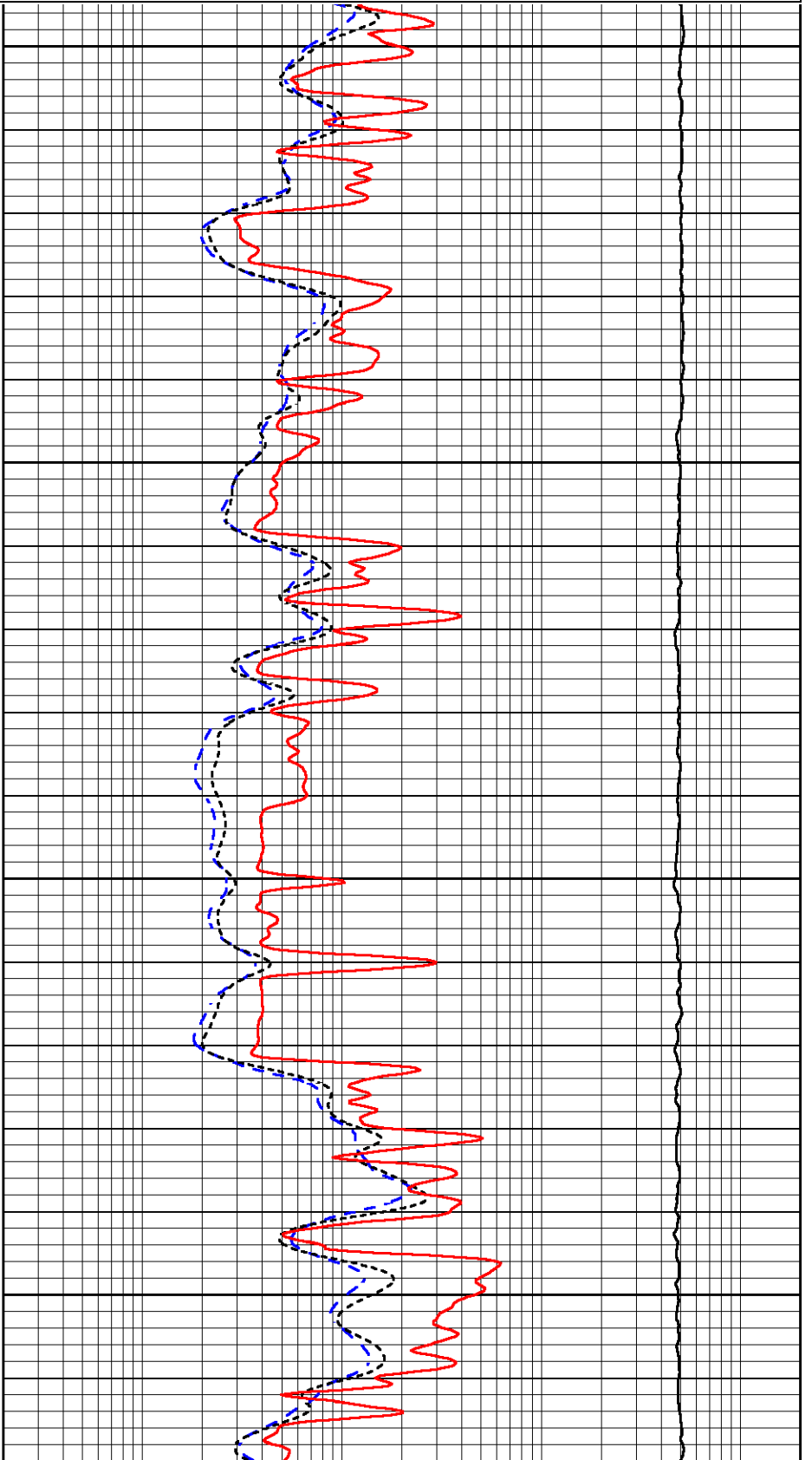


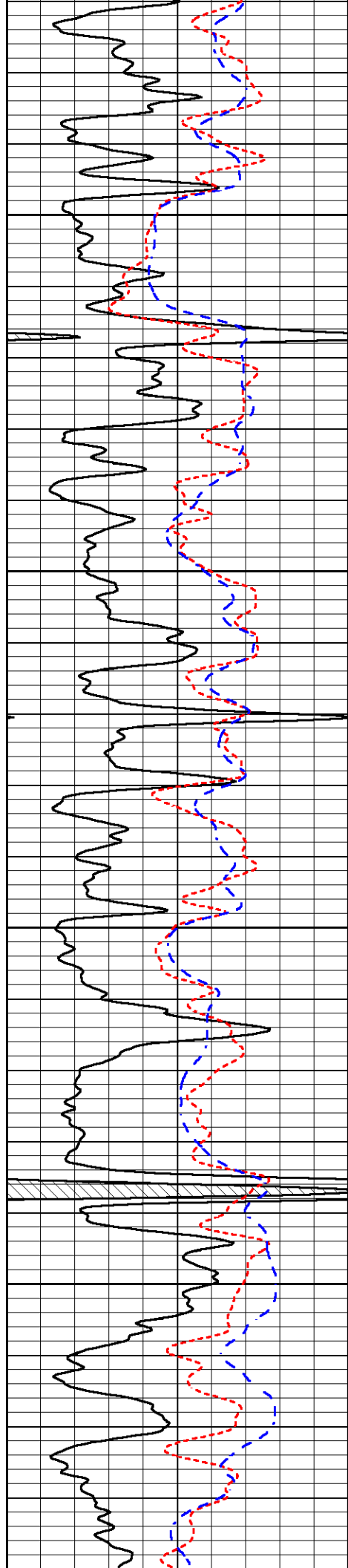
3250

3300

3350

3400



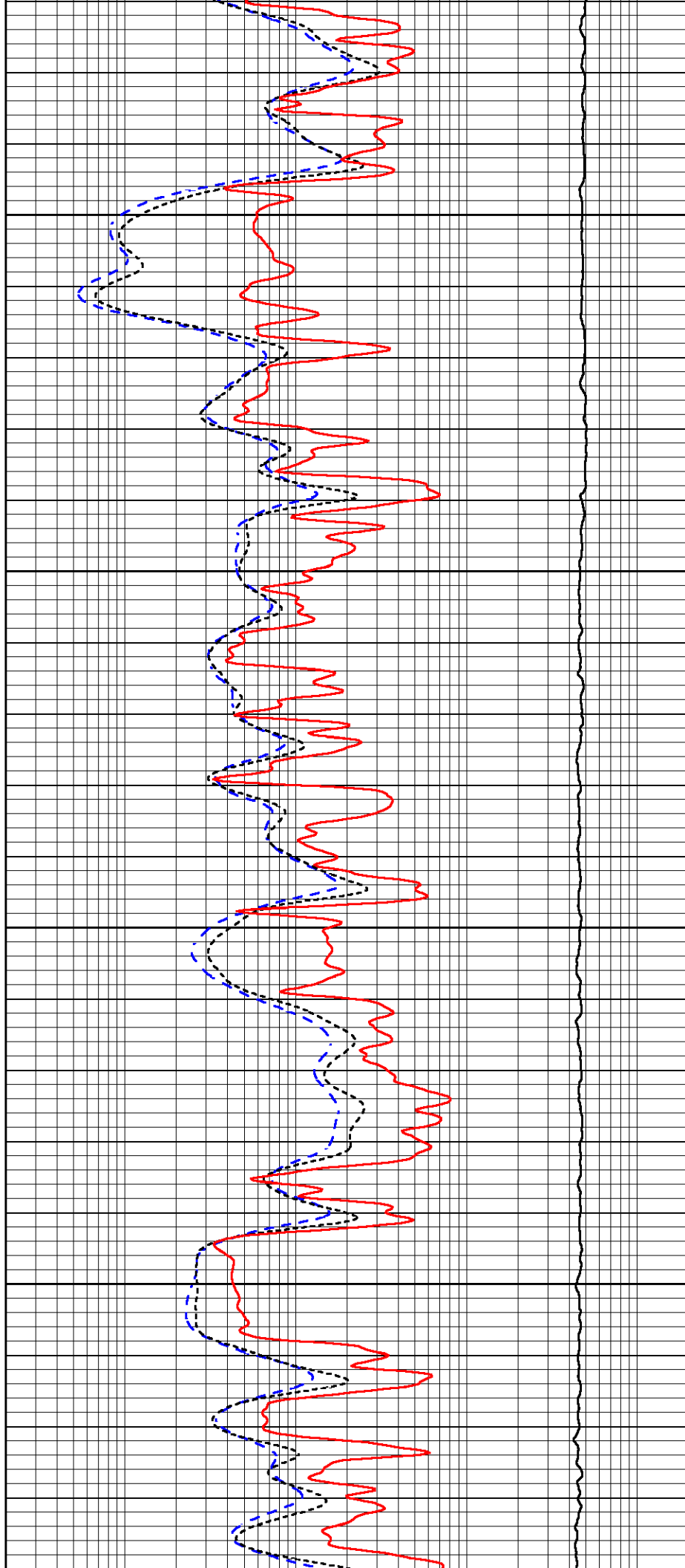


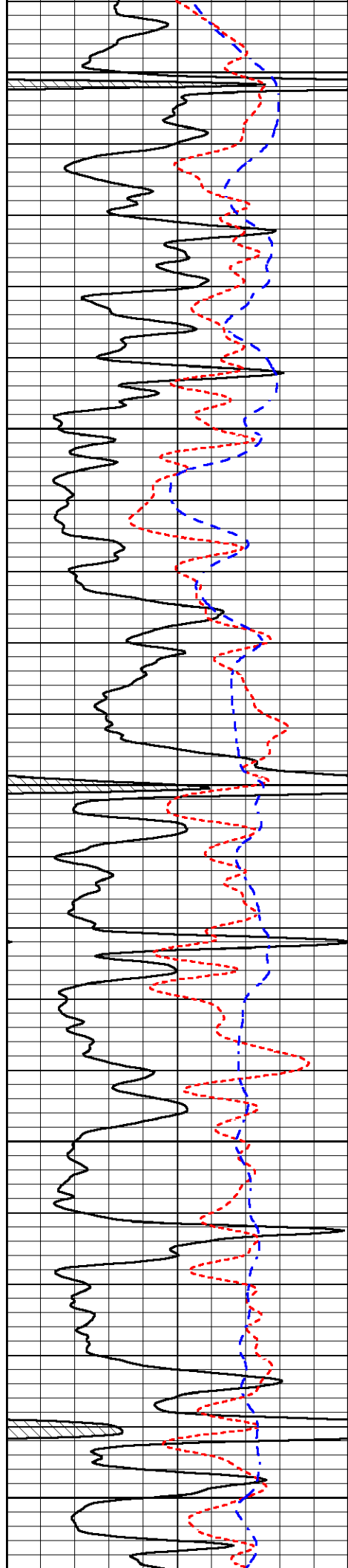
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3500

3550

3600





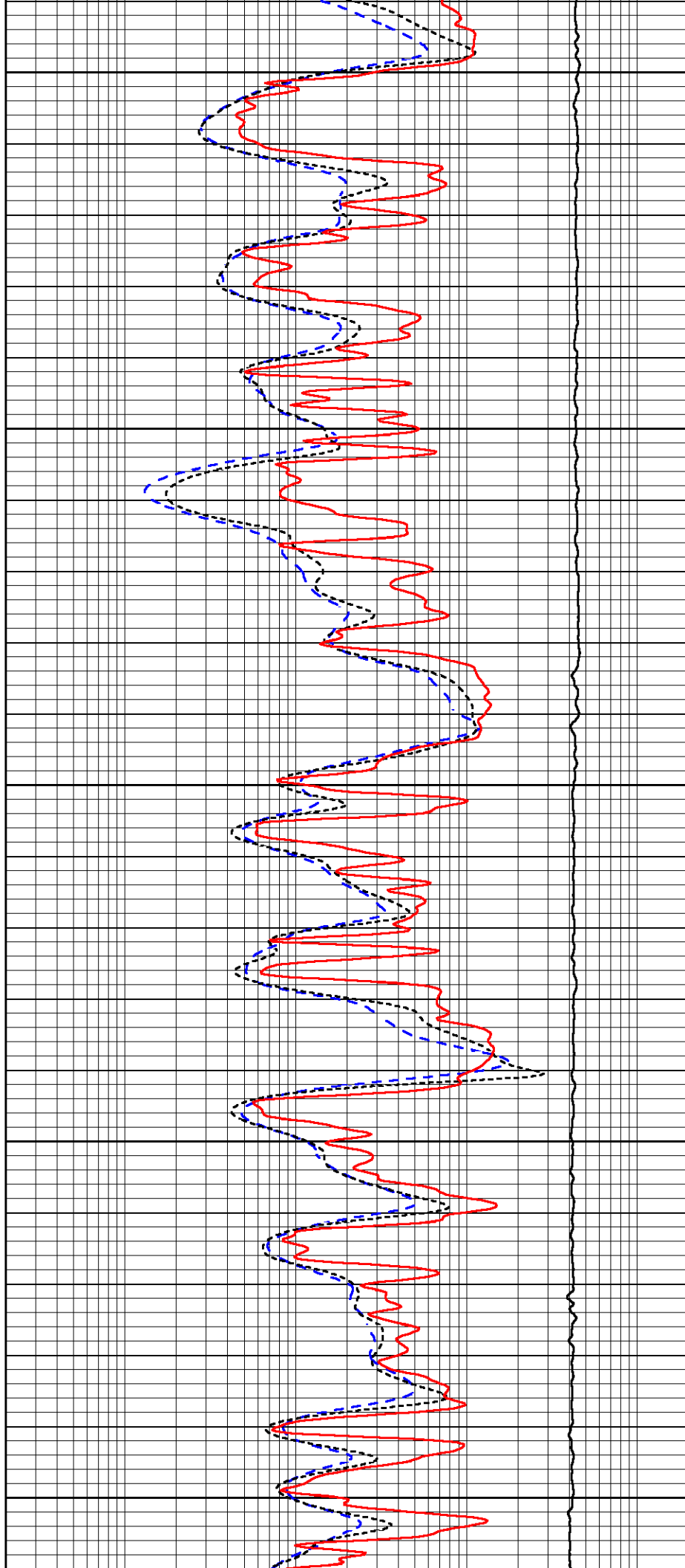
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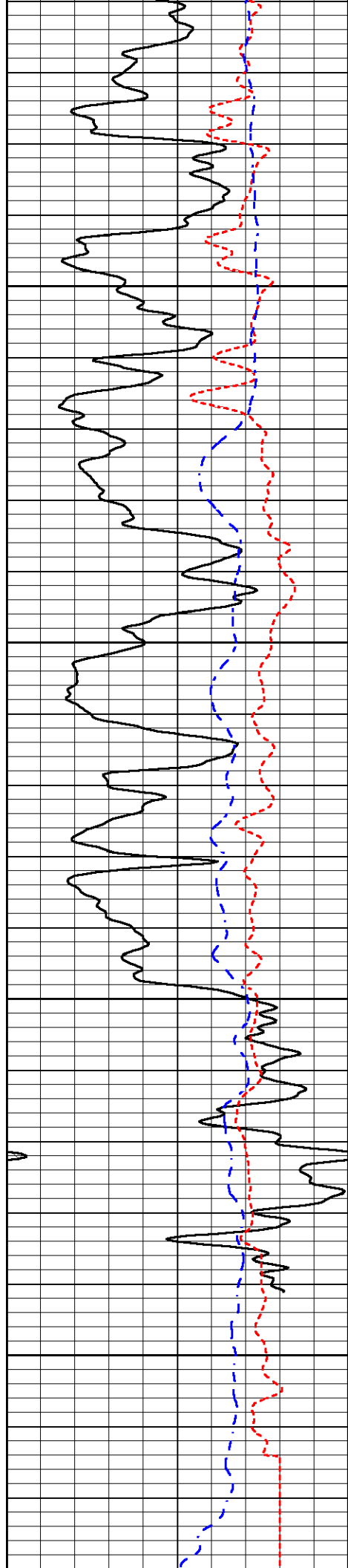
3700

3750

3800

3850



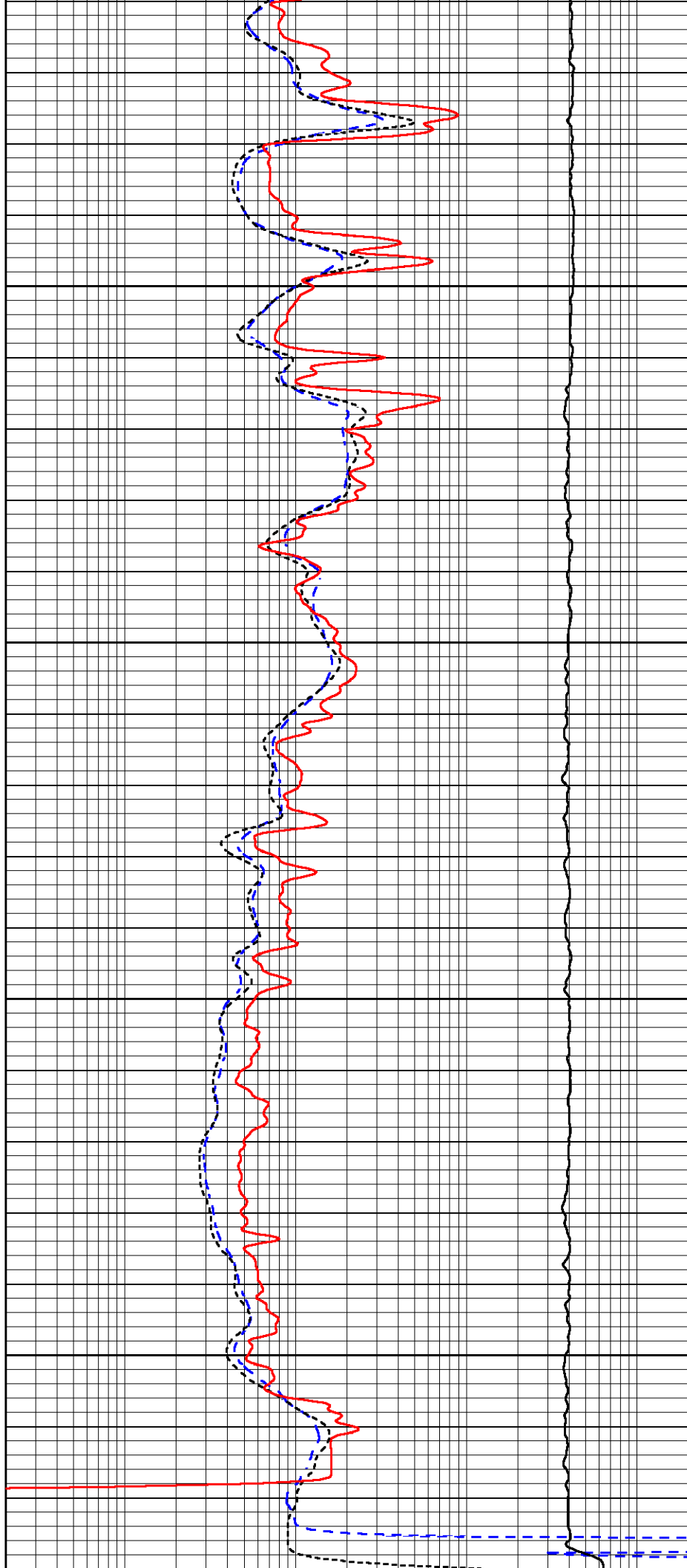


3900

3950

4000

4050



0	Gamma Ray (GAPI)	200
-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



MIDWEST WIRELINE

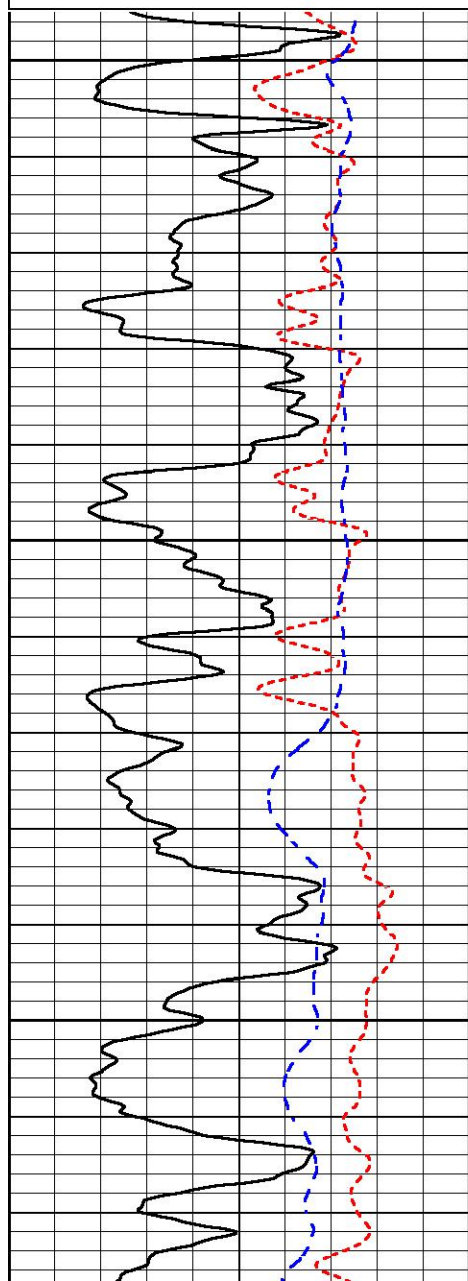
REPEAT SECTION

REPEAT PASS

Database File gore_arleta #2-27.db
Dataset Pathname StkMI/pass2.1
Presentation Format _dil
Dataset Creation Tue Jun 21 10:00:02 2022
Charted by Depth in Feet scaled 1:240

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

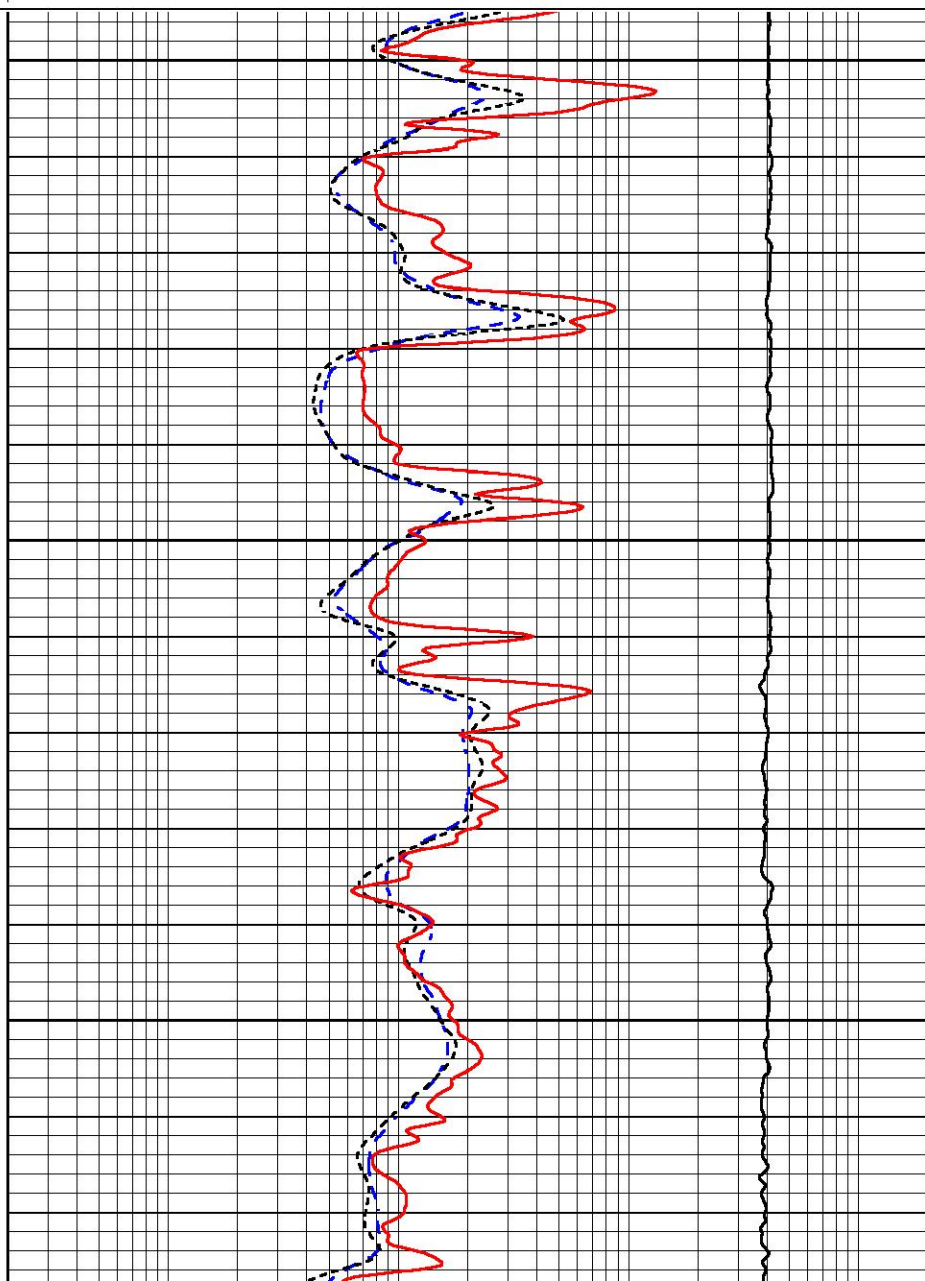
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

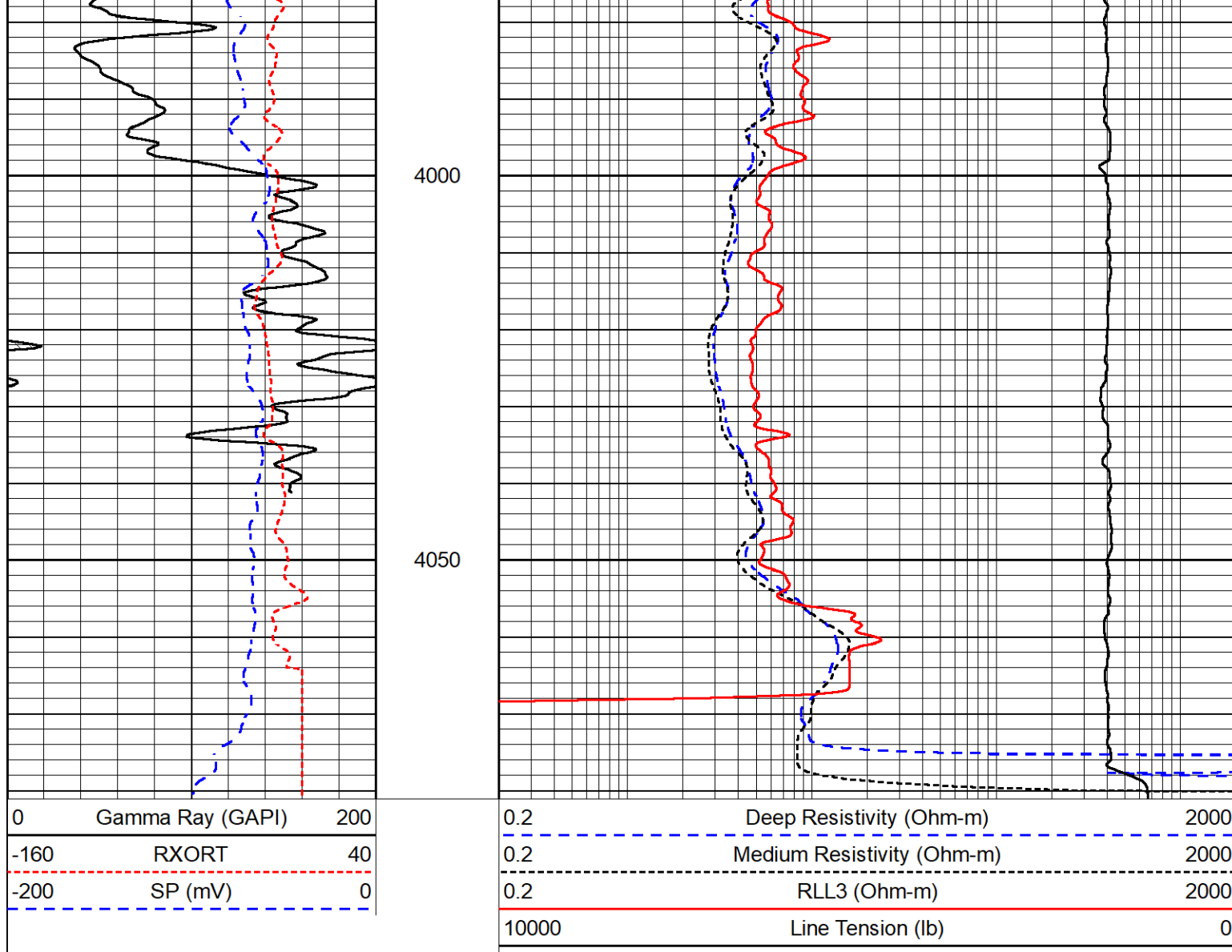


3850

3900

3950





Calibration Report							
Database File	gore_arleta #2-27.db						
Dataset Pathname	StkMI/pass3.1						
Dataset Creation	Tue Jun 21 10:36:38 2022						
Dual Induction Calibration Report							
Serial-Model:		502 HT-M&W					
Surface Cal Performed:		Wed Feb 9 17:39:00 2022					
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
	Deep	83.639 487.104	0.000	183.000	mmho/m	0.454	-30.000
	Medium	113.335 1585.690	0.000	442.000	mmho/m	0.350	-6.000
Microlog Calibration Report							
Serial-Model:		402-PSIML					
Performed:		Mon Jan 24 20:31:16 2022					
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b

Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	65.0000	-59.5000

Compensated Density Calibration Report

Serial-Model: 302-02-M&W
 Source #: 20762B
 Master Calibration Performed: Mon Feb 14 21:17:22 2022

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		4422.04	6163.44	cps
Aluminum	2.670	g/cc		835.14	3912.91	cps
Spine Angle = 74.75			Density/Spine Ratio = 0.530			
	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
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:	0.5300	GAPI/cps



Company	Gore Oil Company
Well	Arleta #2-27
Field	
County	Trego
State	Kansas