



MIDWEST WIRELINE

DUAL INDUCTION

CompanyGriffin Management LLC		Company Griffin Management LLC	
Well	Anna #2	Well	Anna #2
Field	Moffett	Field	Moffett
County	Barber	County	Barber
State	Kansas	State	Kansas
Location:		API # : 15-007-24479-00-00	Other Services
Permanent Datum		NW/NE SE SE	CNL/CDL
Log Measured From		1130 FSL & 380 FEL	MEL
Drilling Measured From		SEC 9 TWP 30S RGE 15W	
Ground Level		Elevation	Elevation
Kelly Bushing		1955	K.B. 1960
Kelly Bushing			D.F. 1955
G.L. 1955			
Date	9/25/2023		
Run Number	One		
Depth Driller	4833		
Depth Logger	4834		
Bottom Logged Interval	4833		
Top Log Interval	250		
Casing Driller	8.625 @ 259		
Casing Logger	258		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity ,ppm CL	4100		
Density / Viscosity	9.35 53		
pH / Fluid Loss	11.0 9.6		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.85 @ 72		
Rmt @ Meas. Temp	0.64 @ 72		
Rmc @ Meas. Temp	1.15 @ 72		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.49 @ 124		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Eli Felts		

<<< Fold Here >>>

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, KS, S to 'Y', E to coral, E & S to location

Log Measured From: Kelly Bushing

5 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: Eli Felts
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_anna #2.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 124	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 1.5	SNDERRM mmho/m -4	SPSHIFT mV 240	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 4834		

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



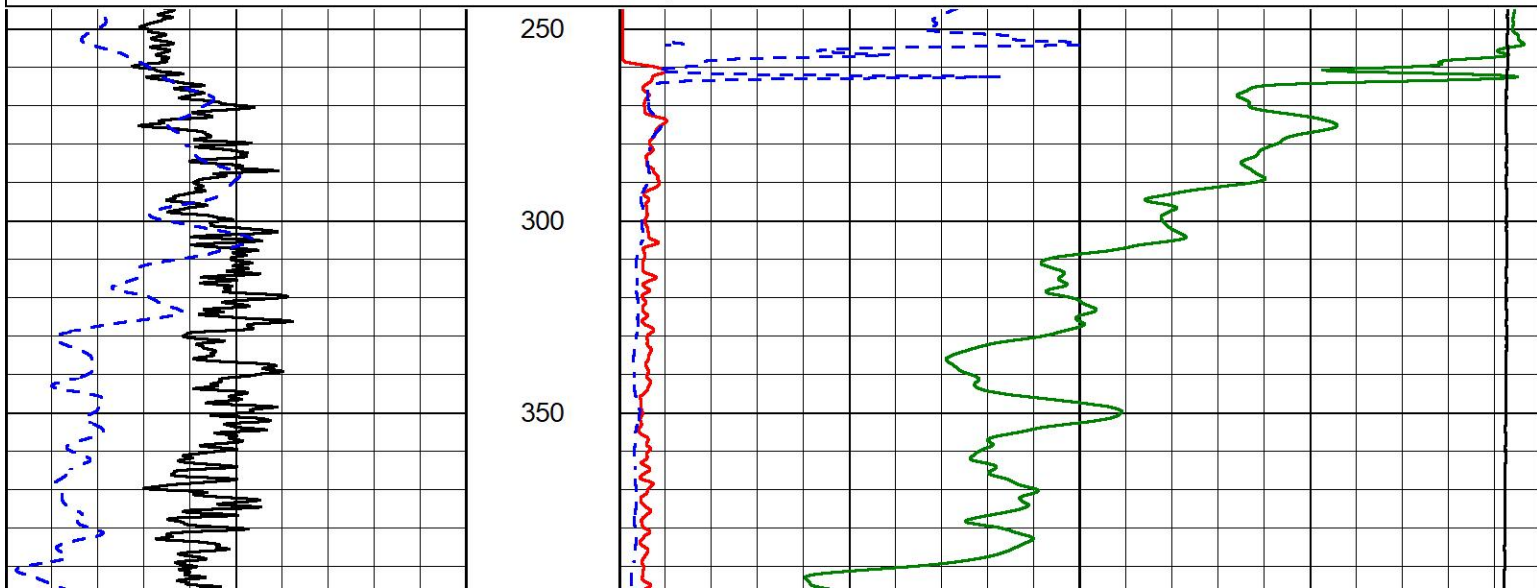
2" SCALE RESISTIVITY

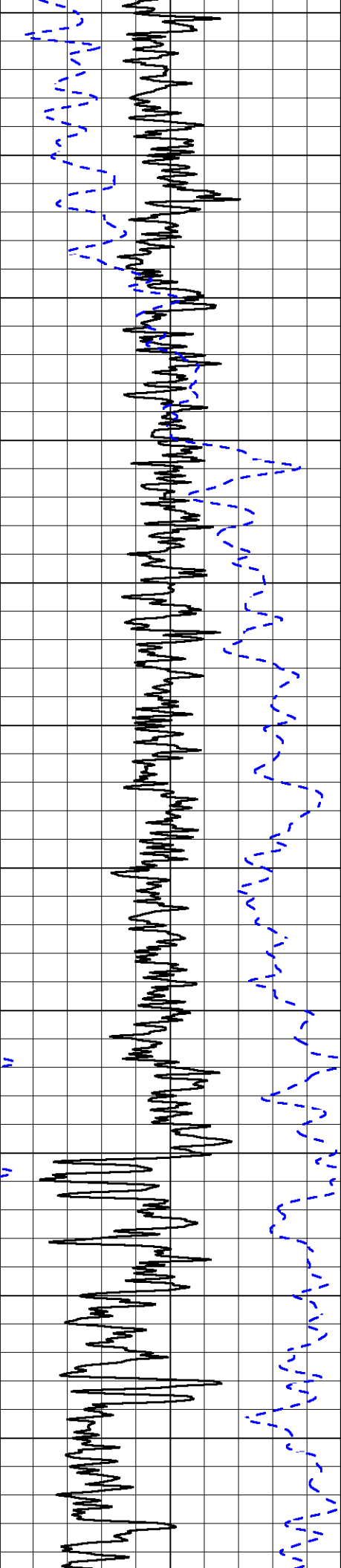
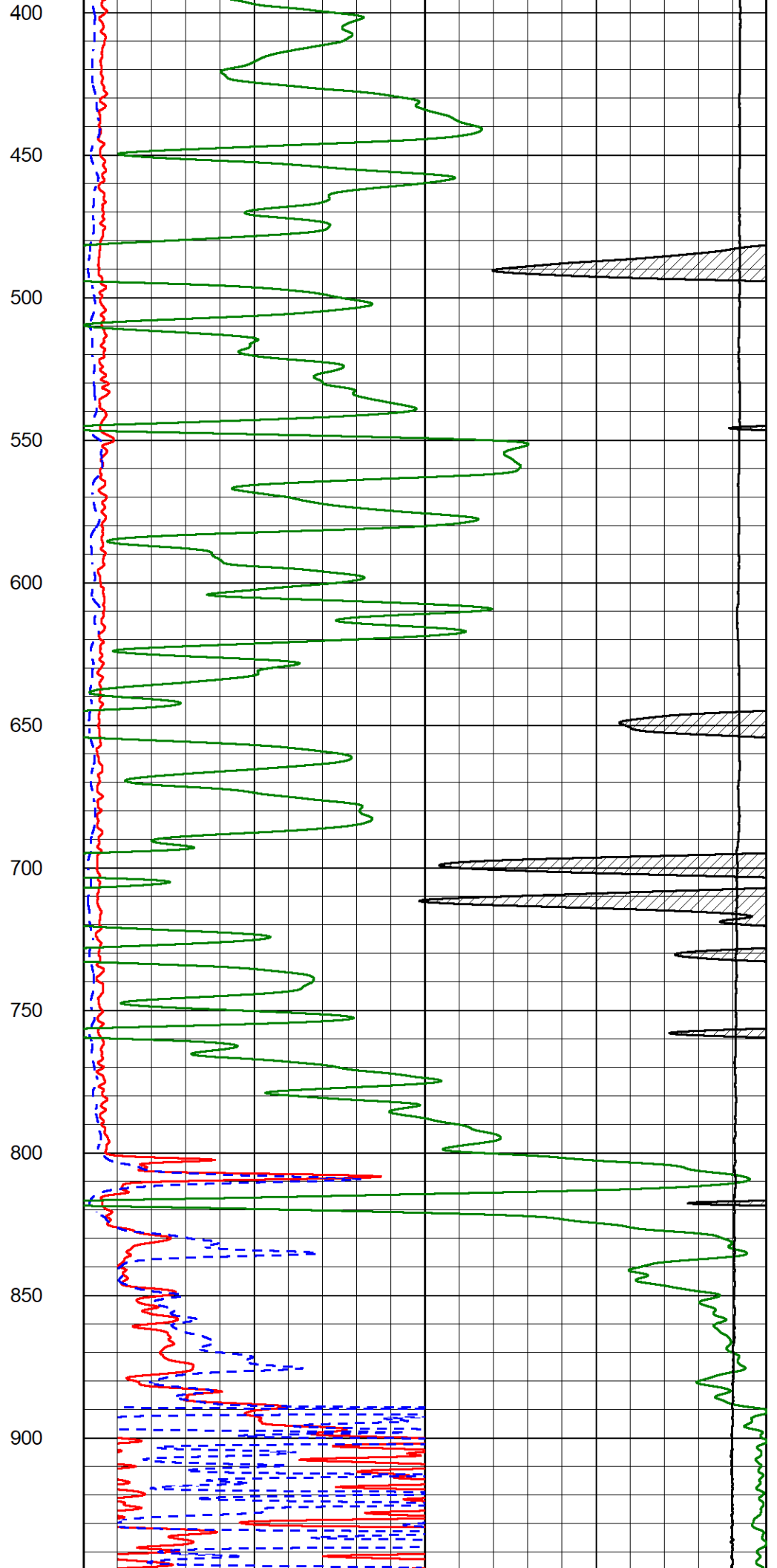
MAIN PASS

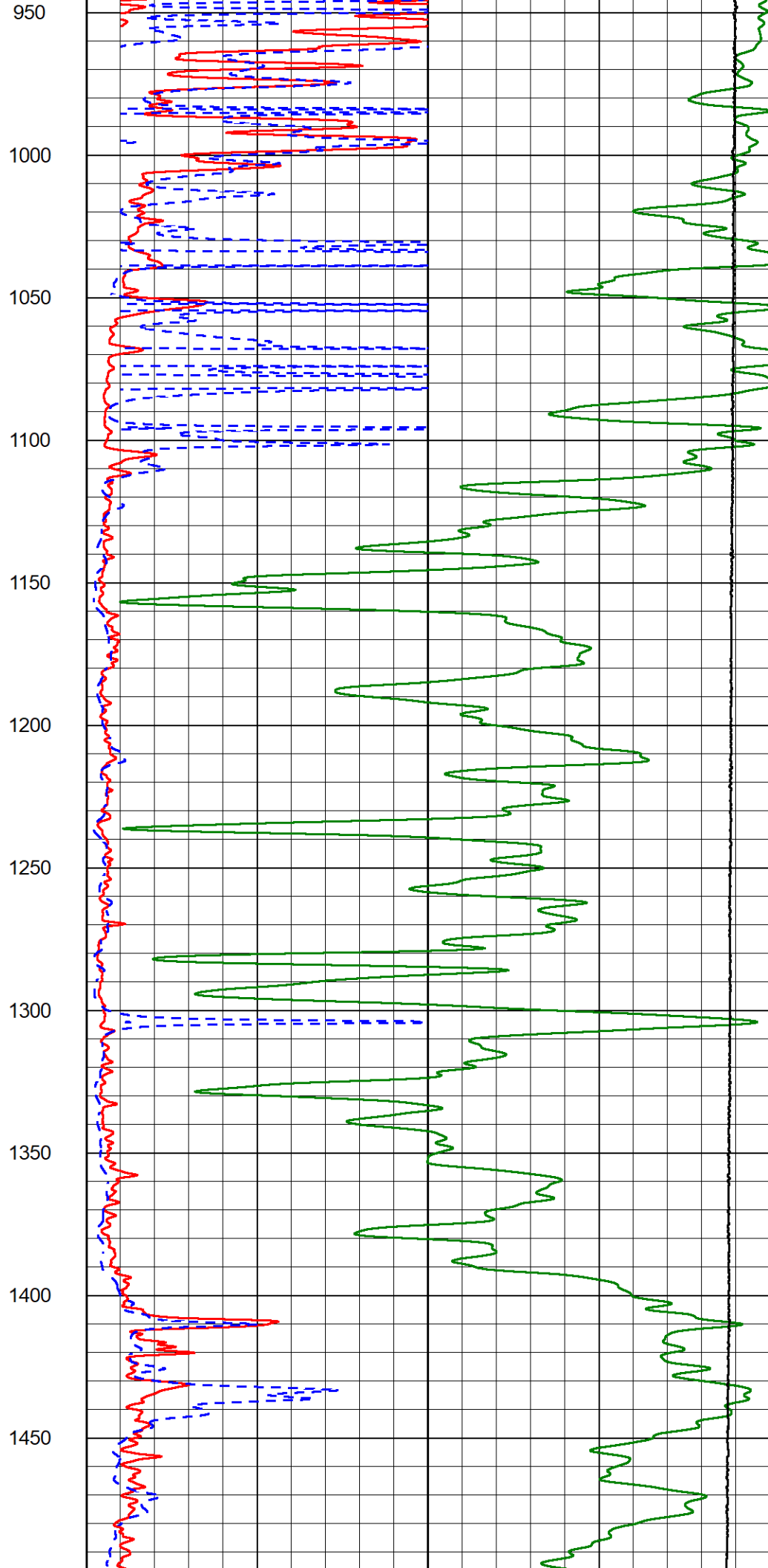
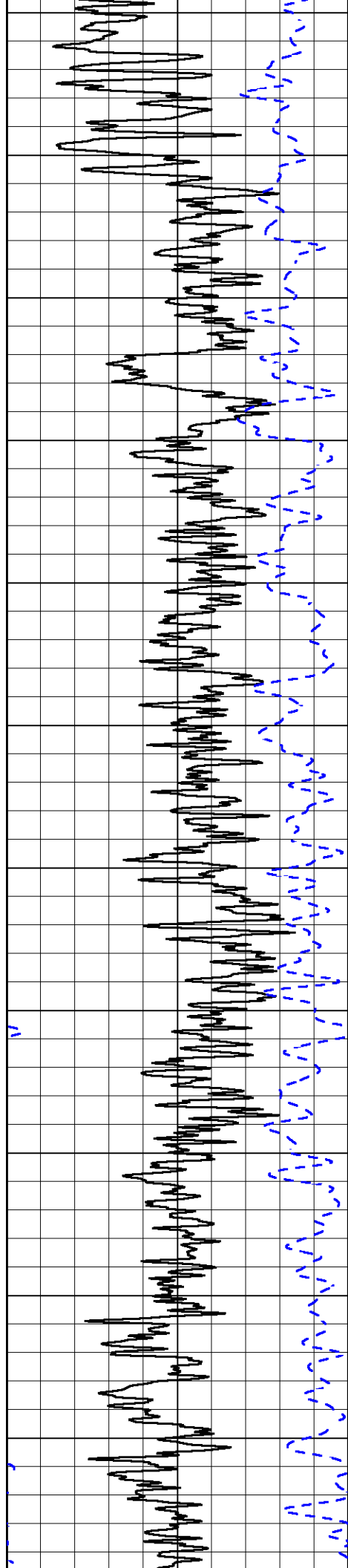
Database File griffin_anna #2.db
Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Mon Sep 25 21:14:01 2023
Charted by Depth in Feet scaled 1:600

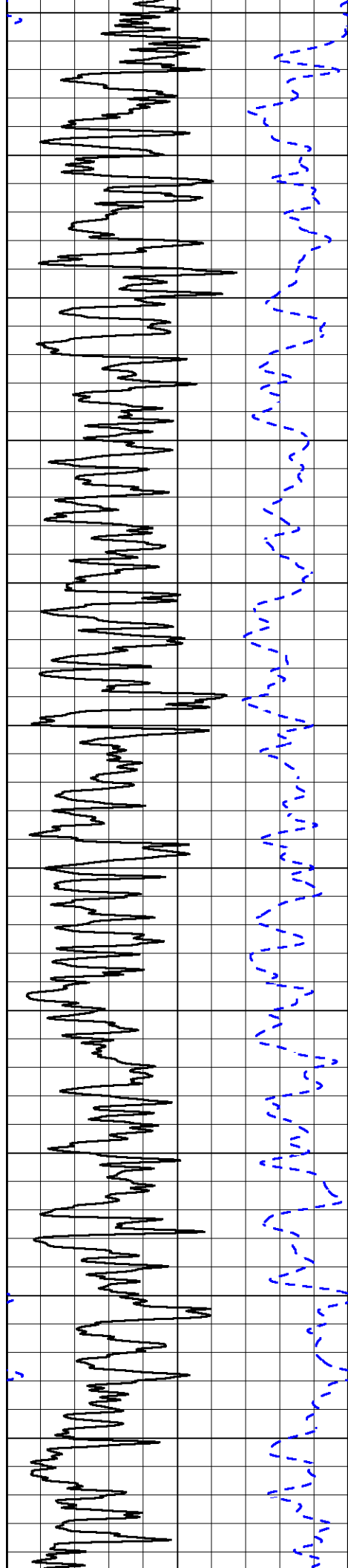
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
50	Shallow Resistivity (Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200

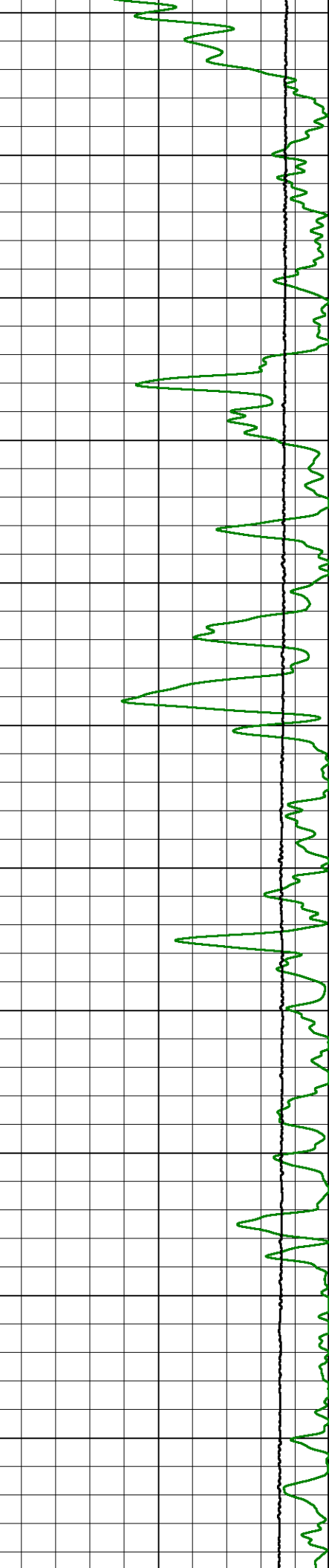
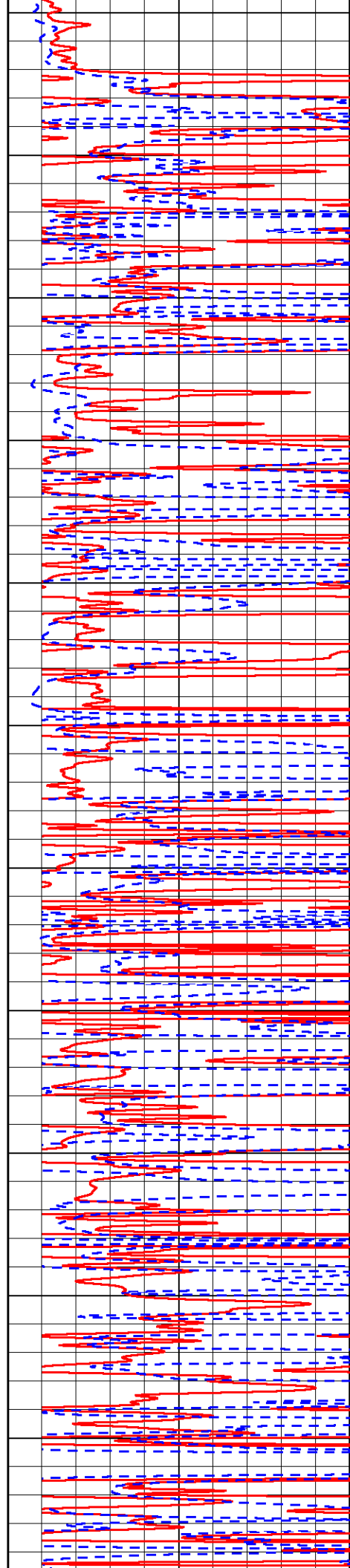


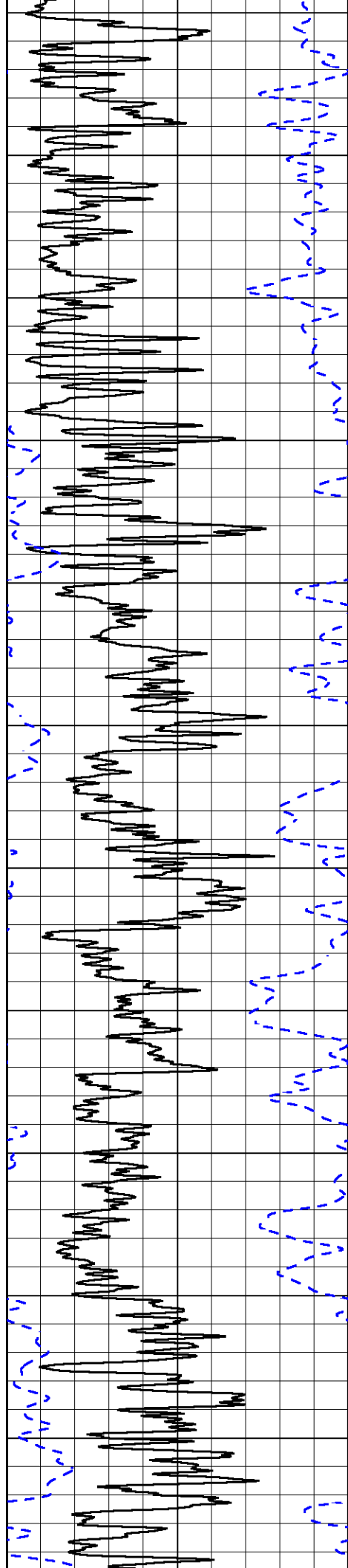




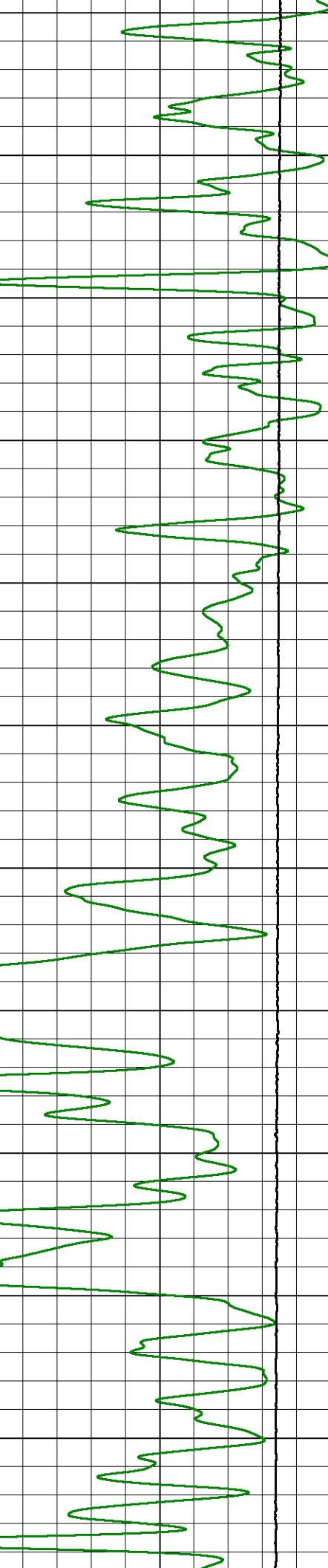
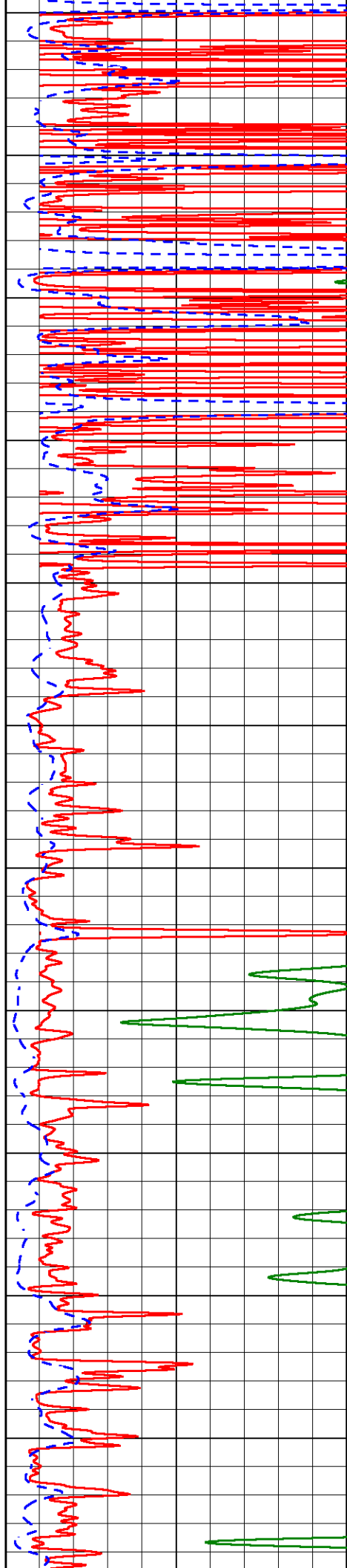


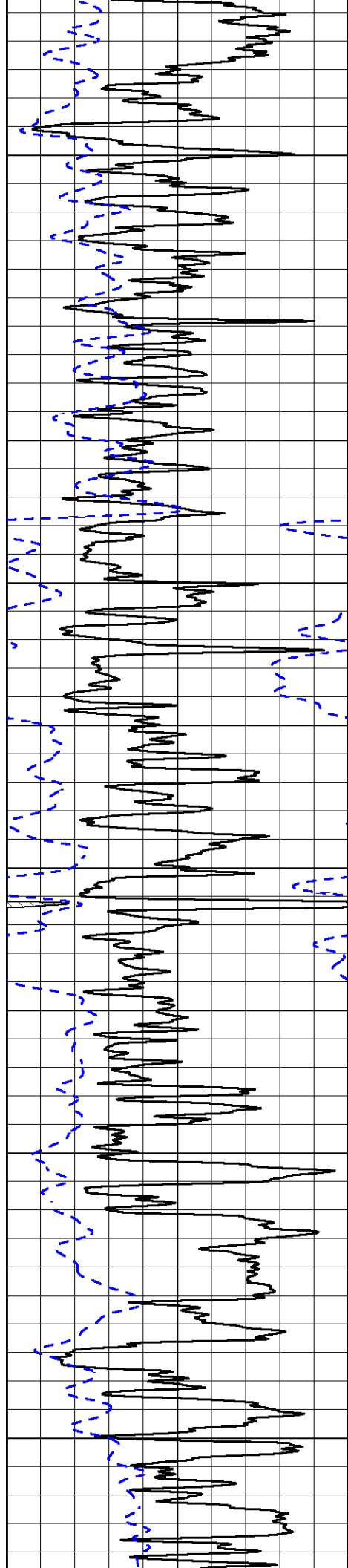
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950
2000



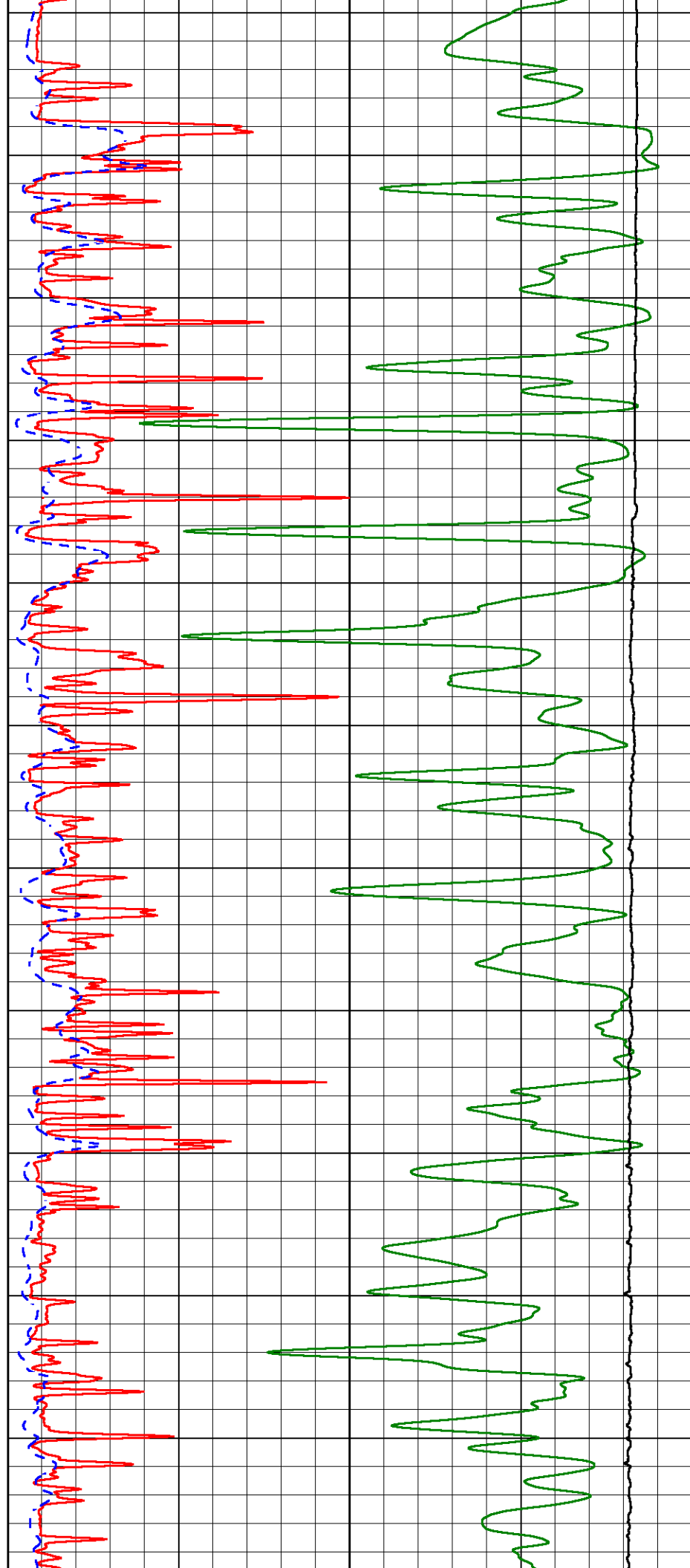


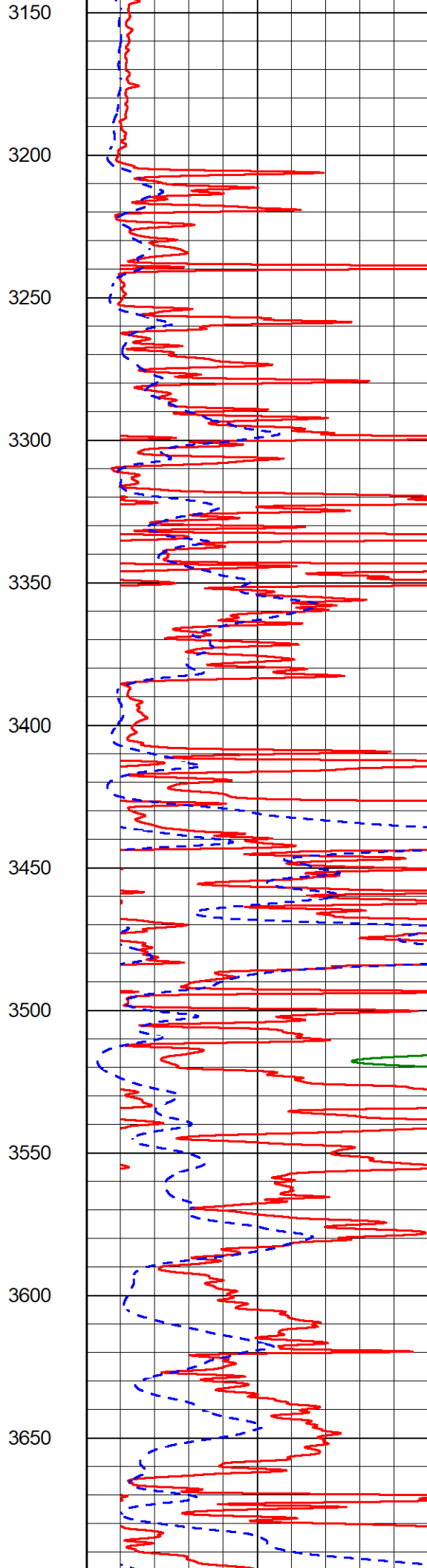
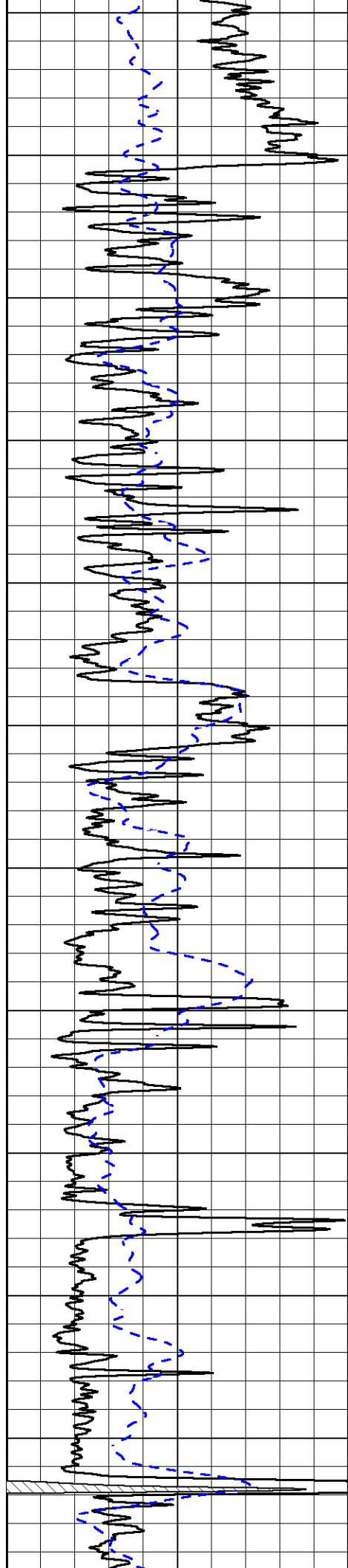
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550

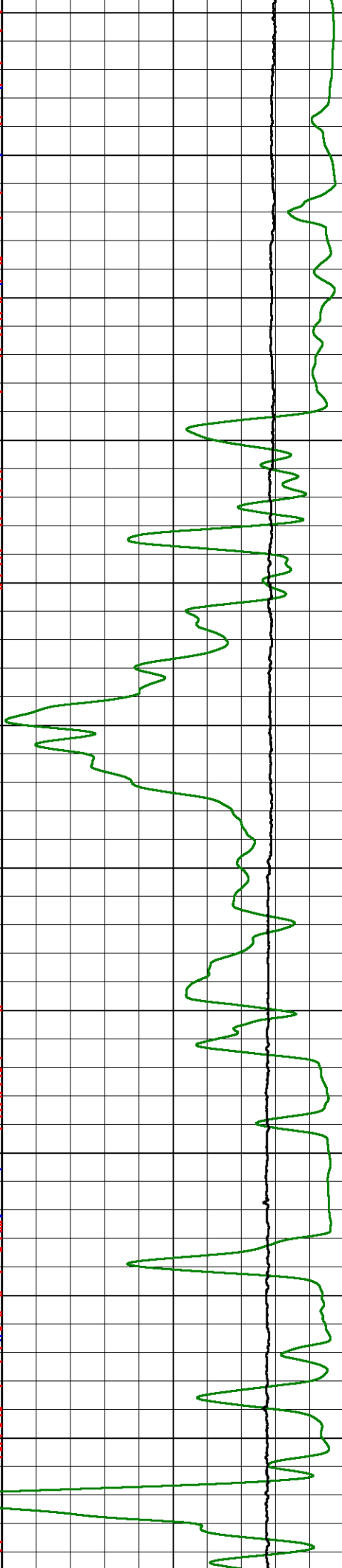
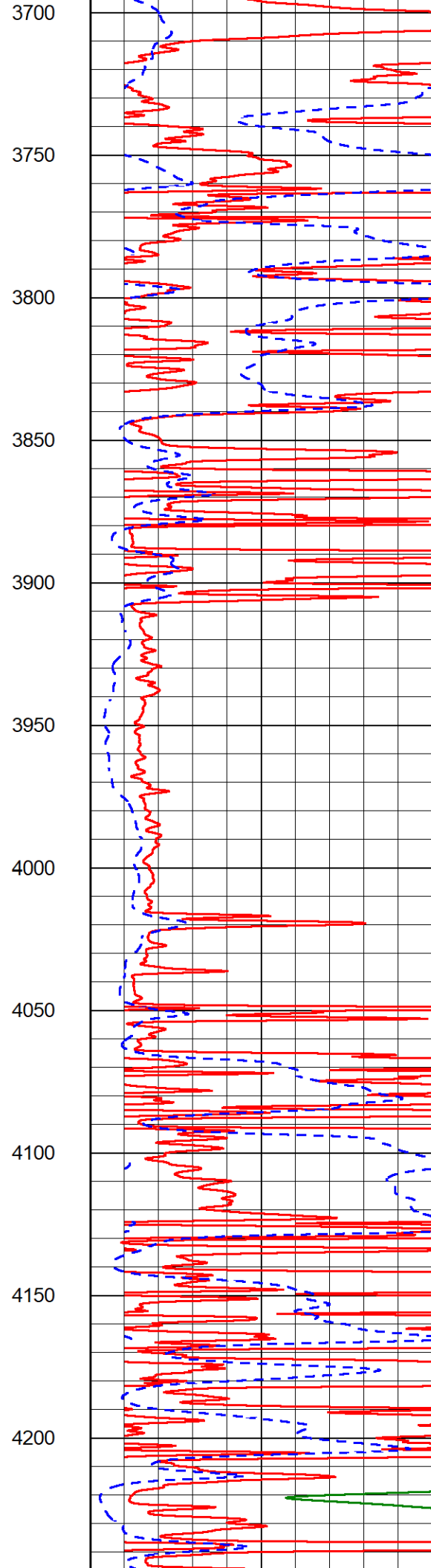
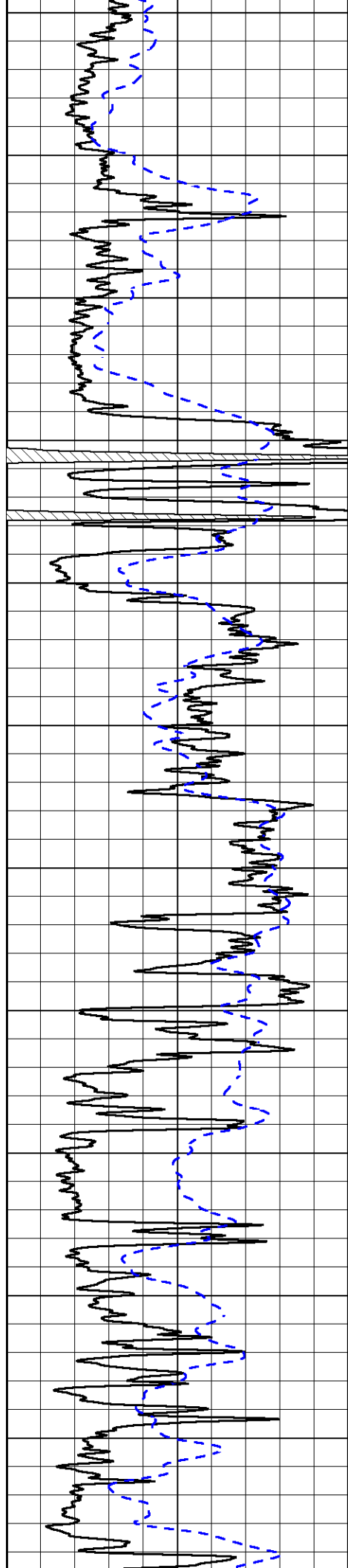


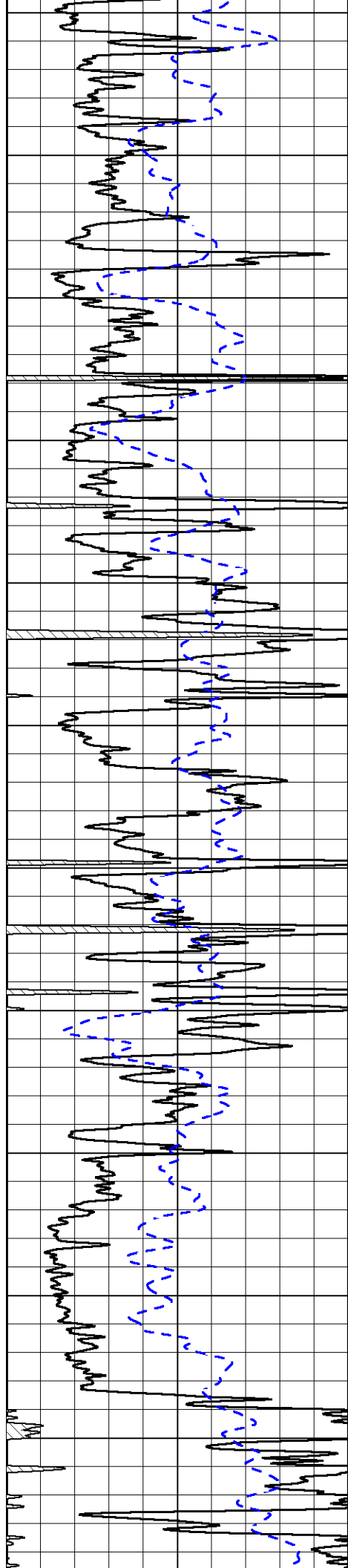


2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
3100

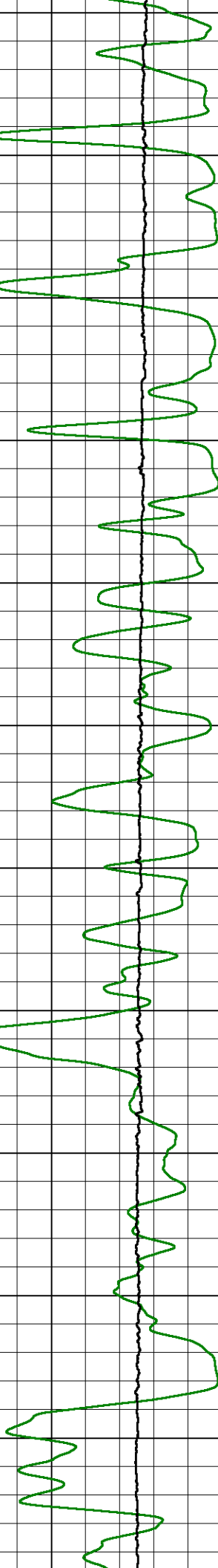
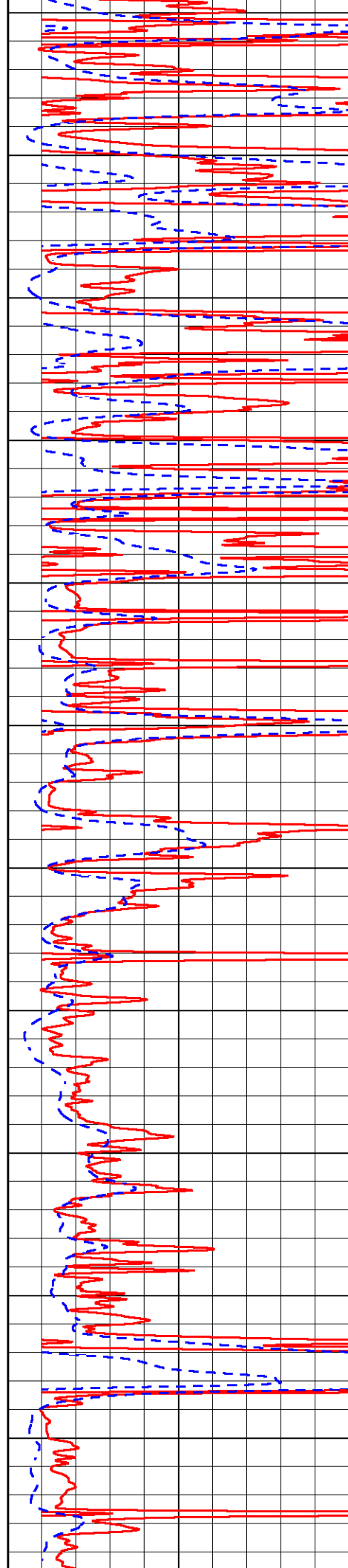


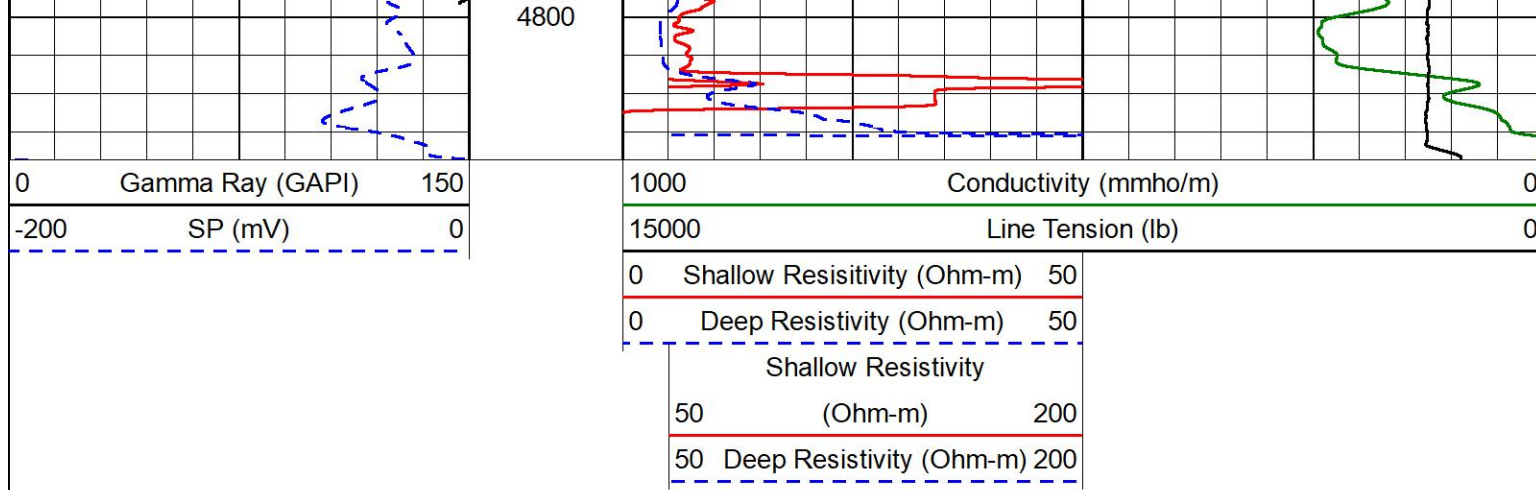






4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750

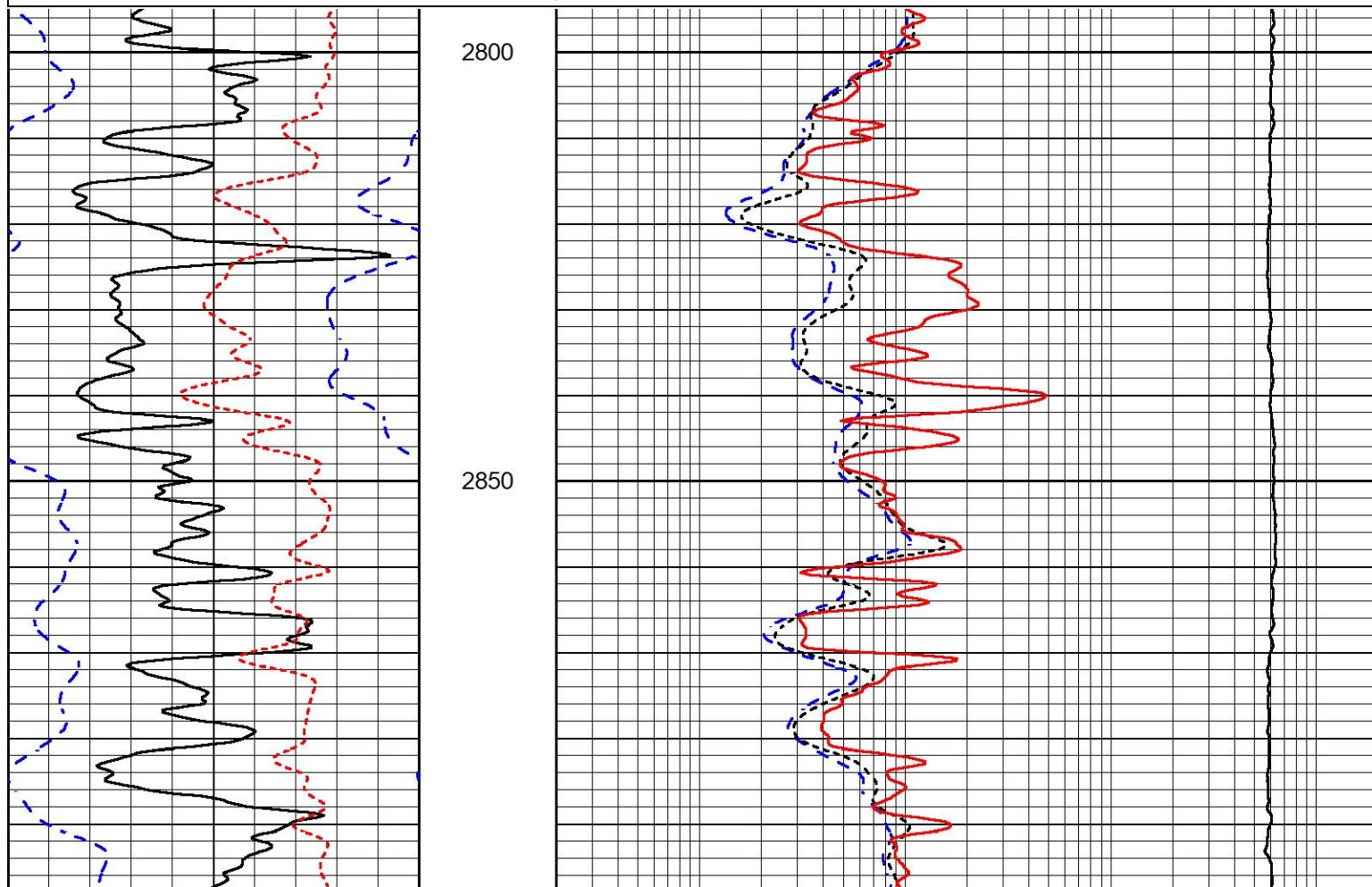
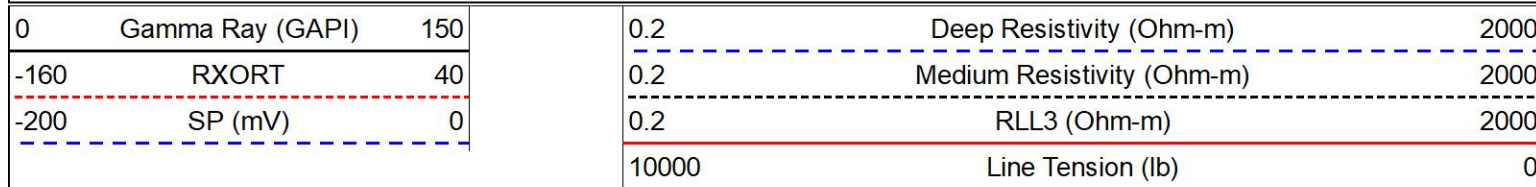


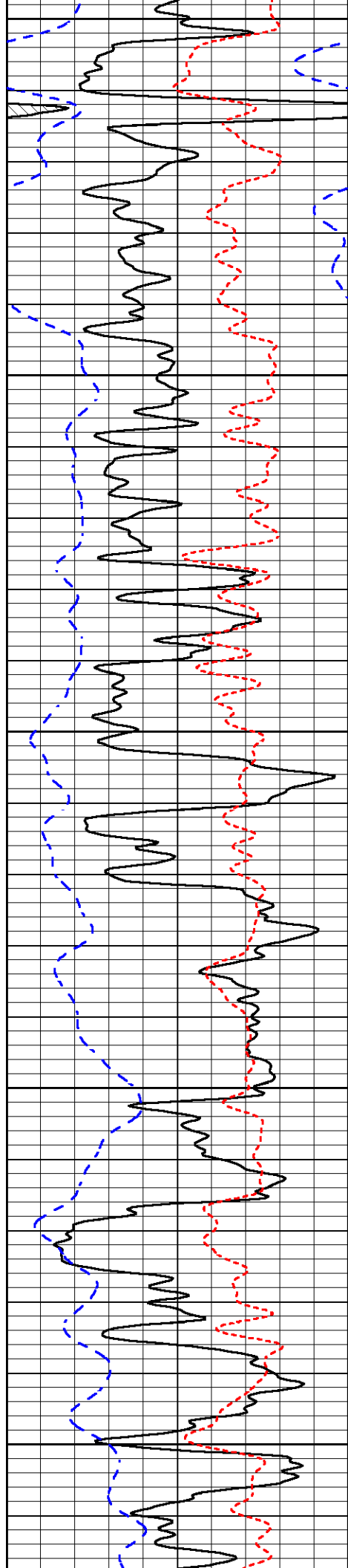


DETAIL SECTION

MAIN PASS

Database File griffin_anna #2.db
 Dataset Pathname StkMI/pass3.1
 Presentation Format _dil
 Dataset Creation Mon Sep 25 21:14:15 2023
 Charted by Depth in Feet scaled 1:240





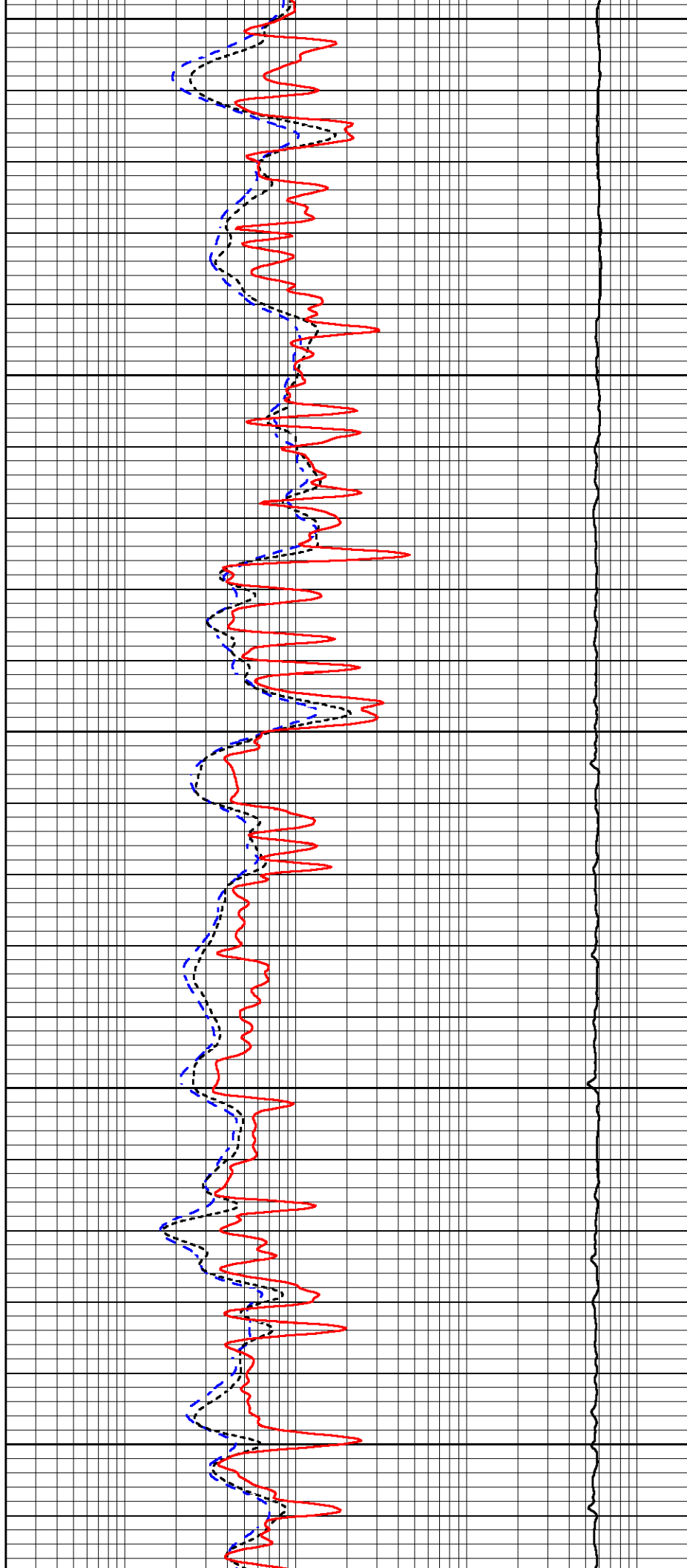
2900

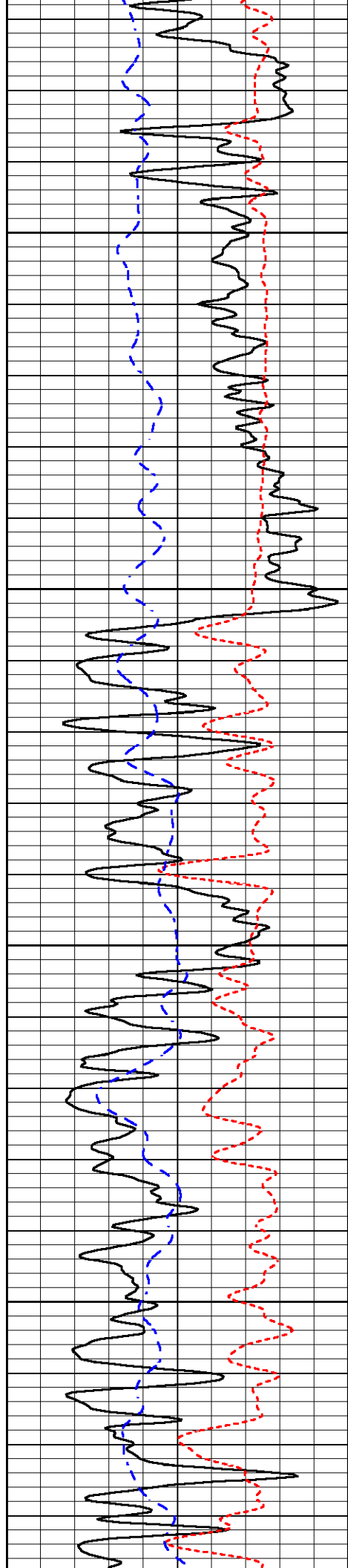
2950

3000

3050

3100



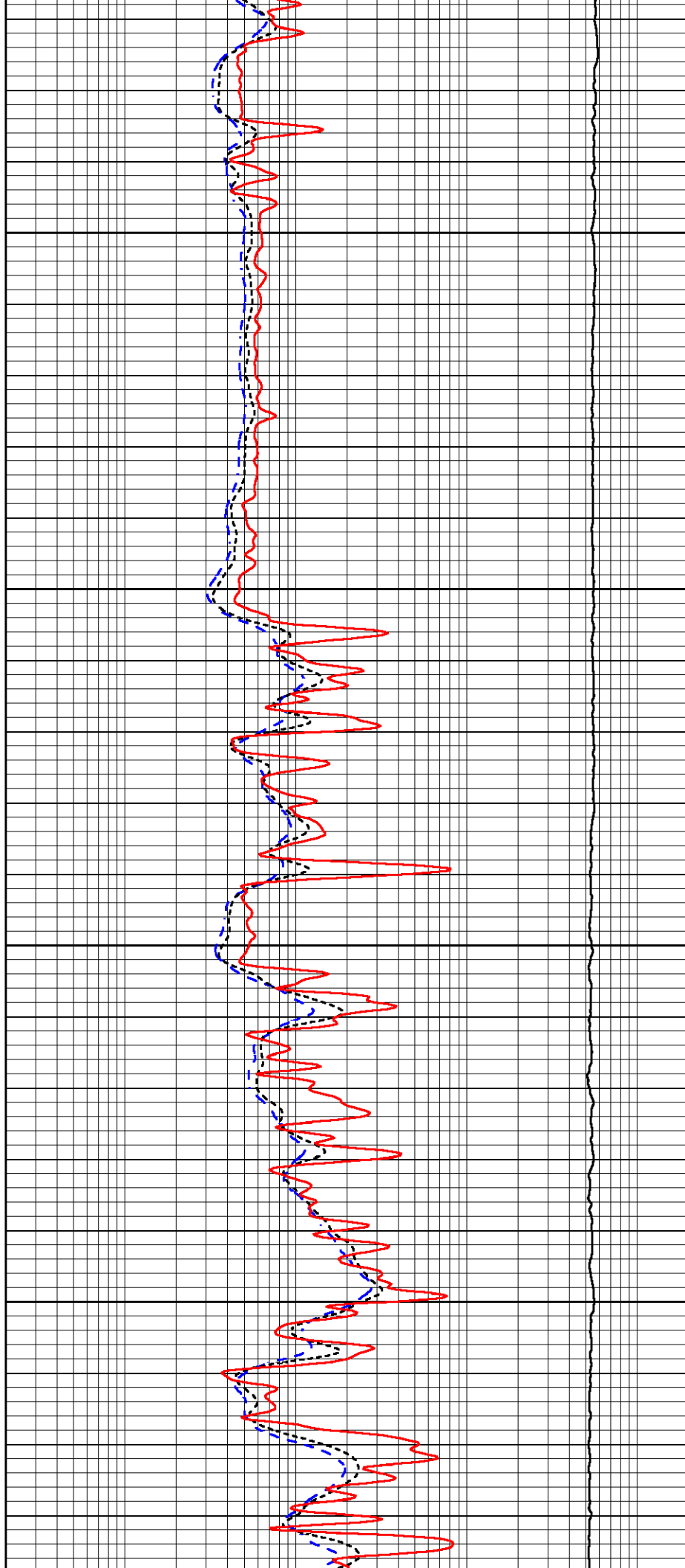


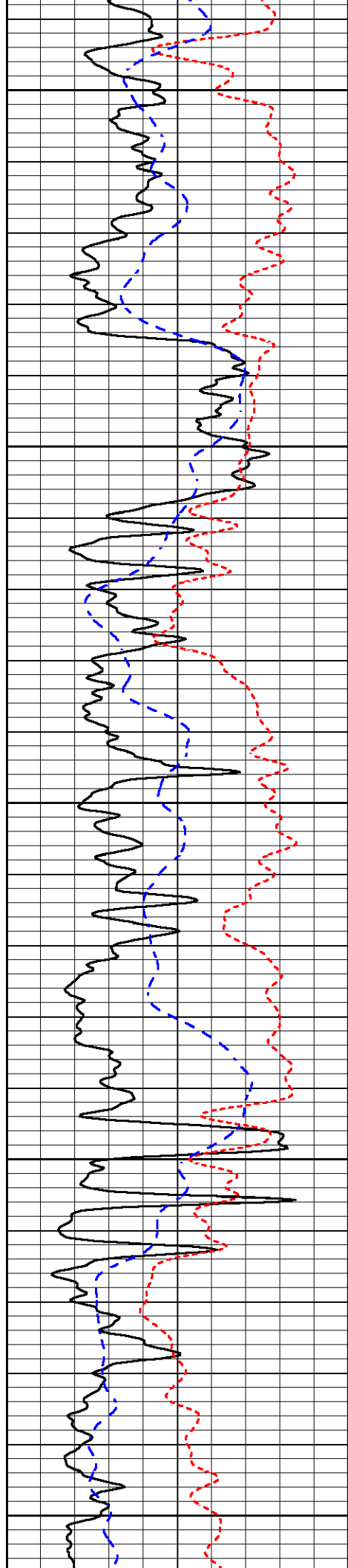
3150

3200

3250

3300





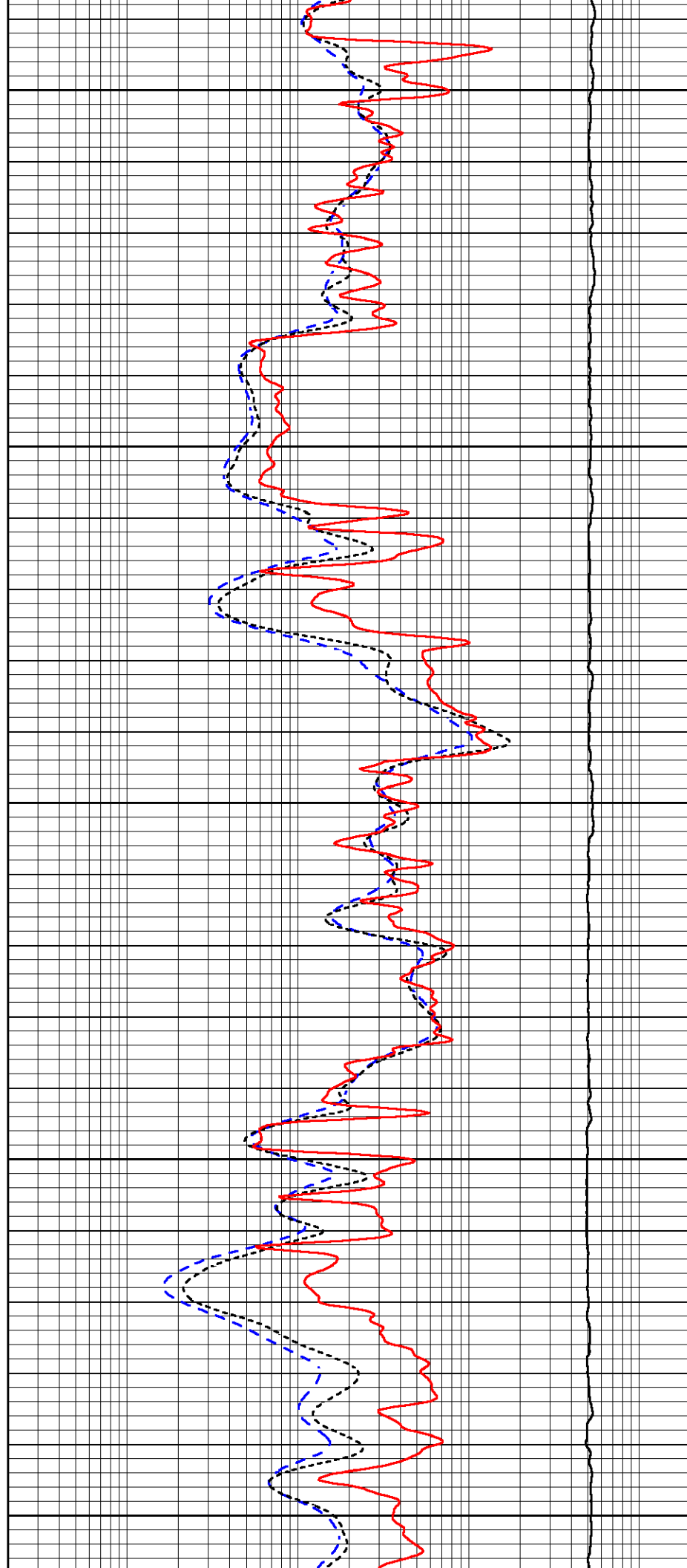
3350

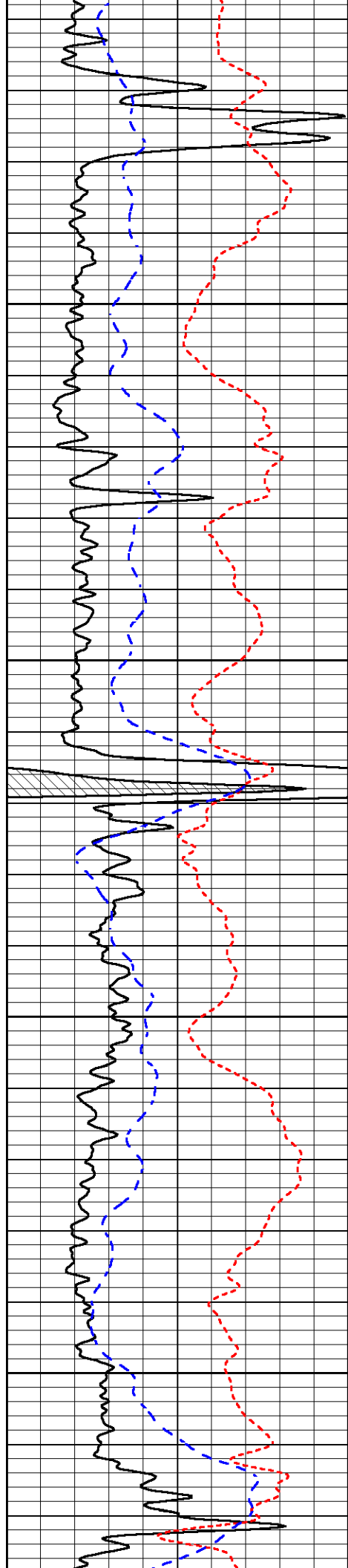
3400

3450

3500

3550



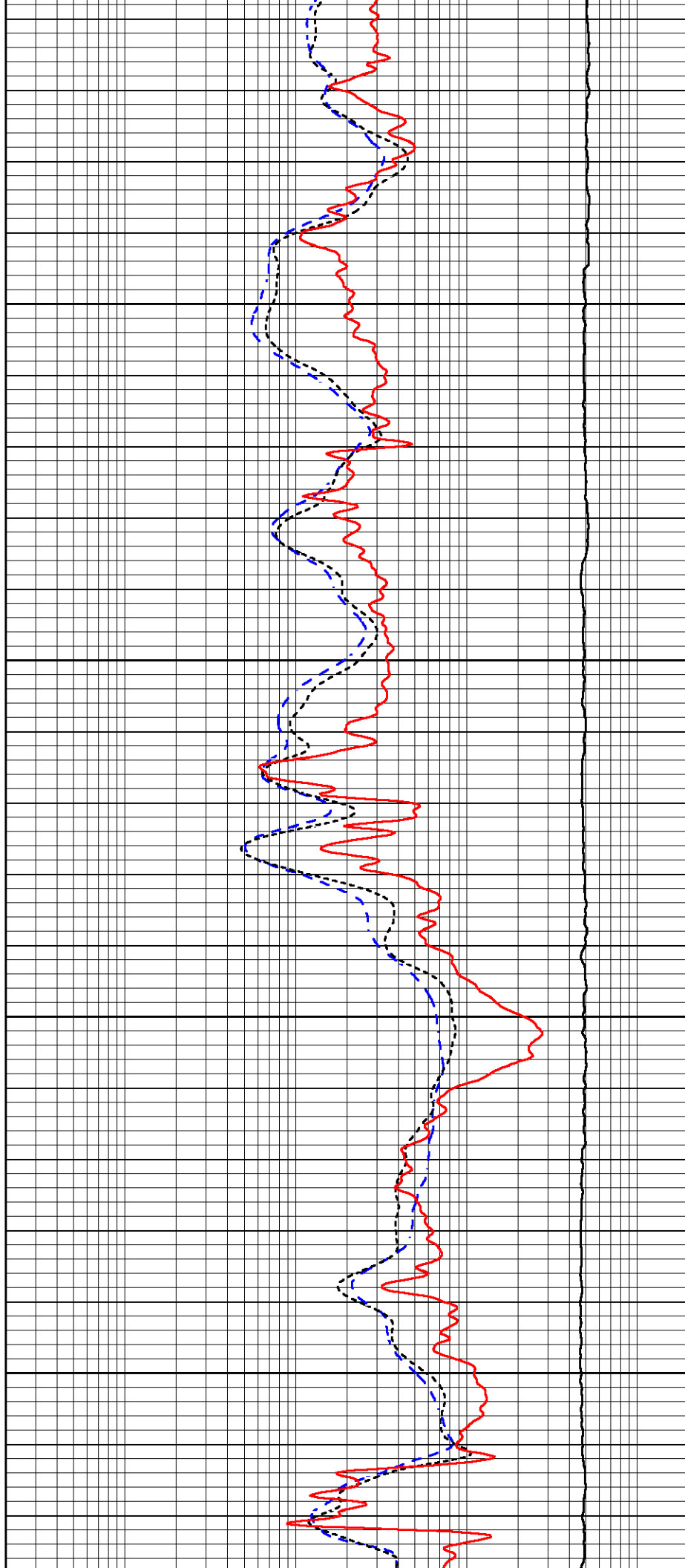


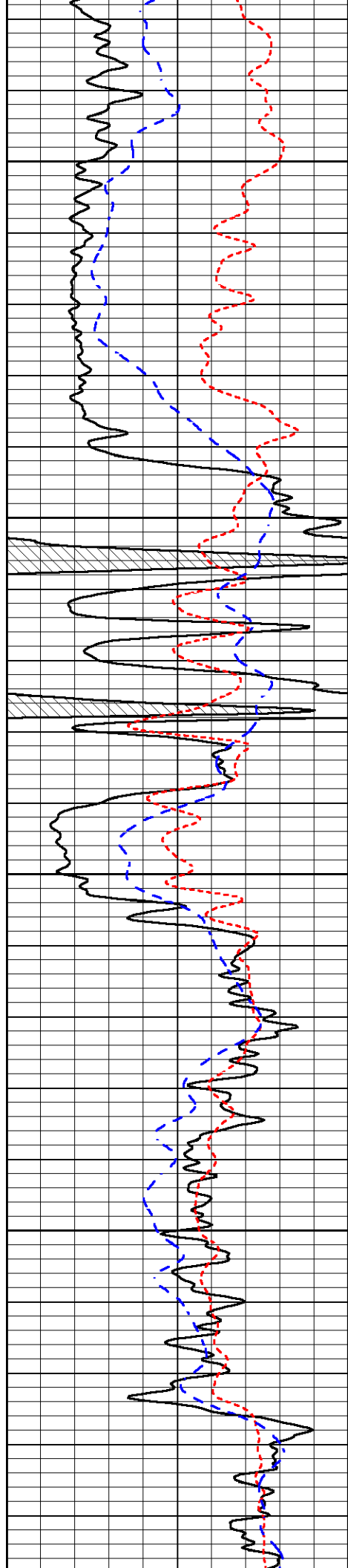
3600

3650

3700

3750



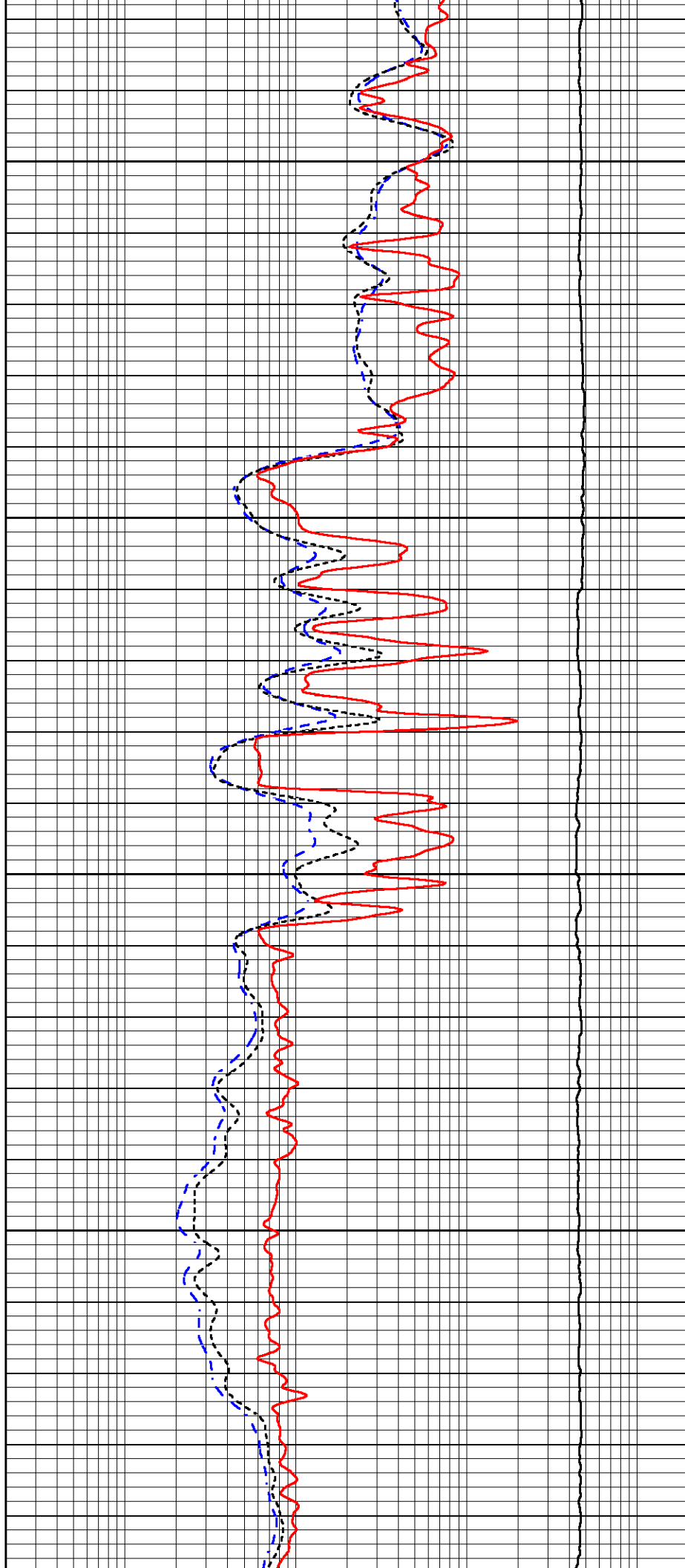


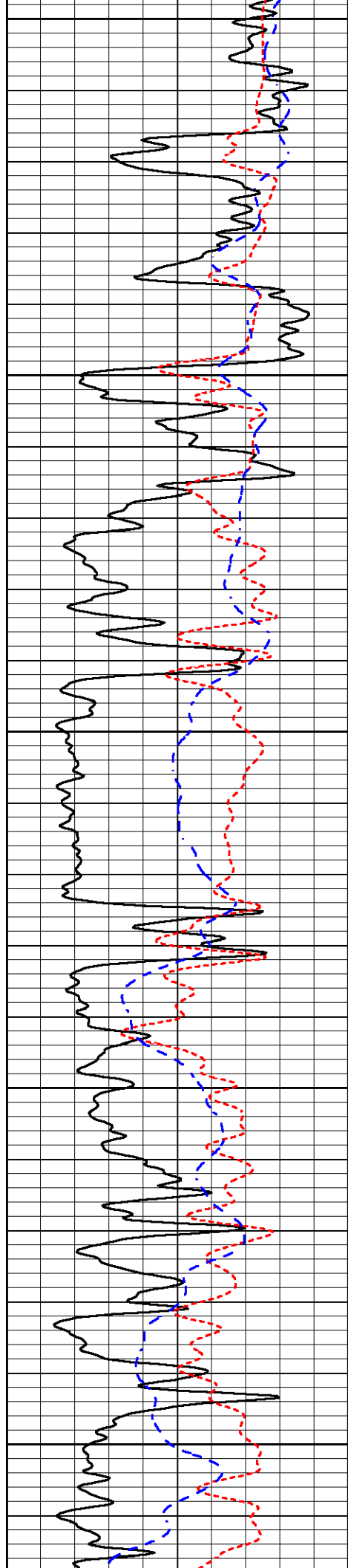
3800

3850

3900

3950





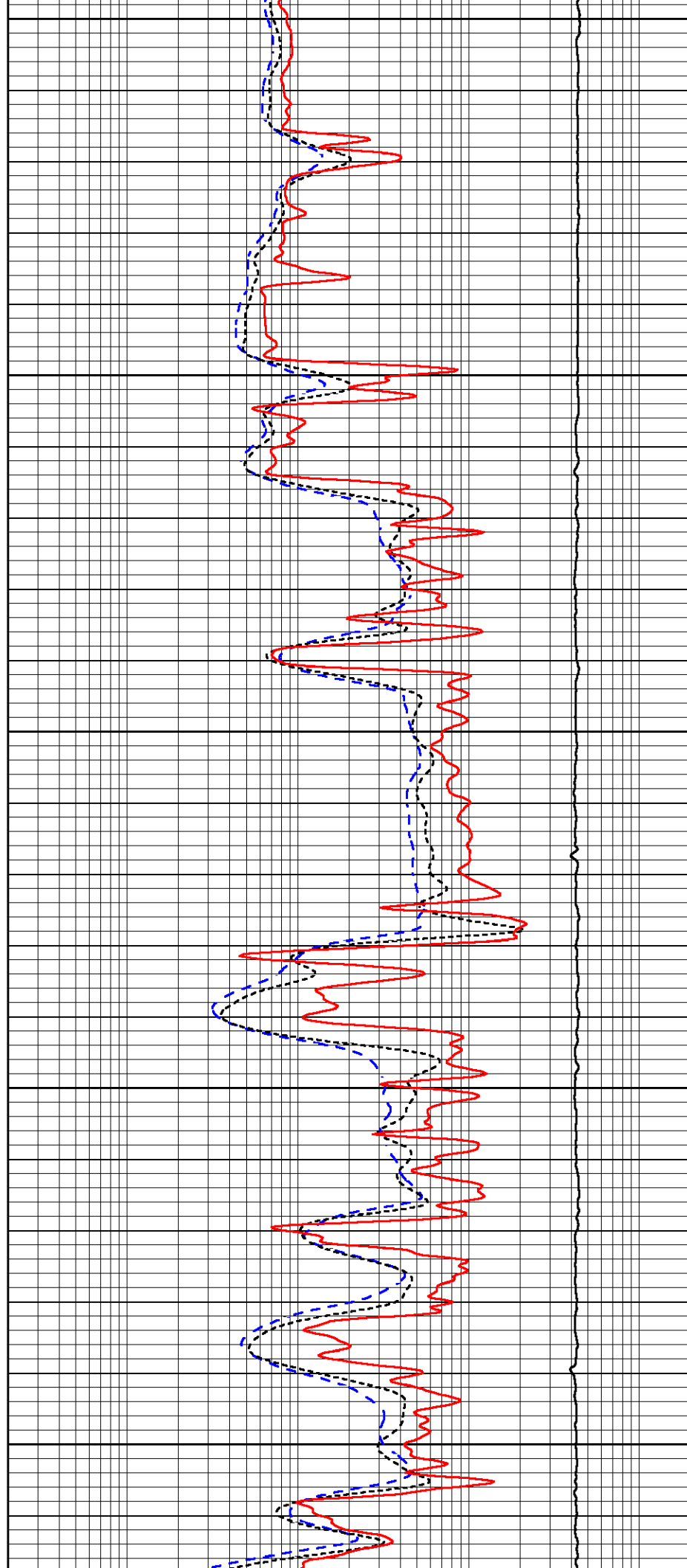
4000

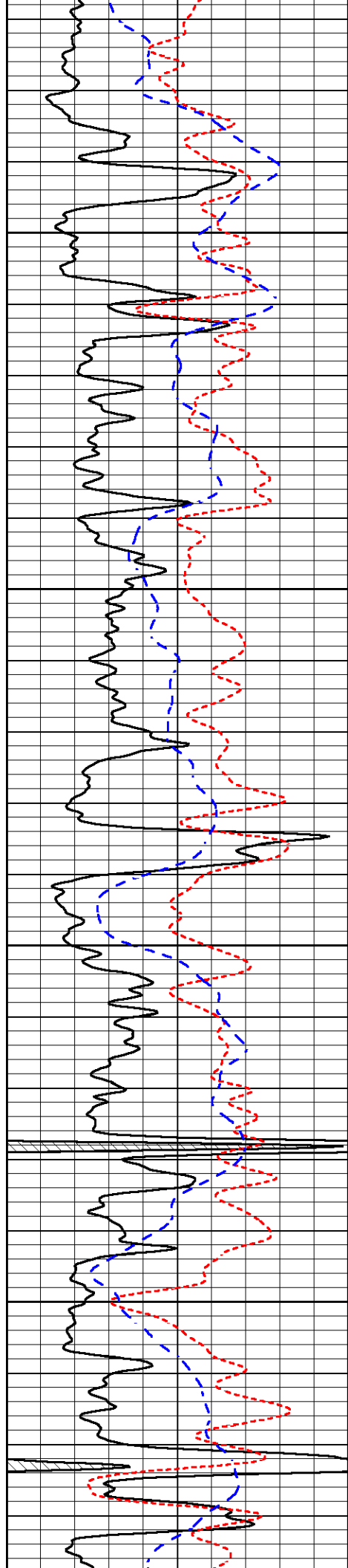
4050

4100

4150

4200



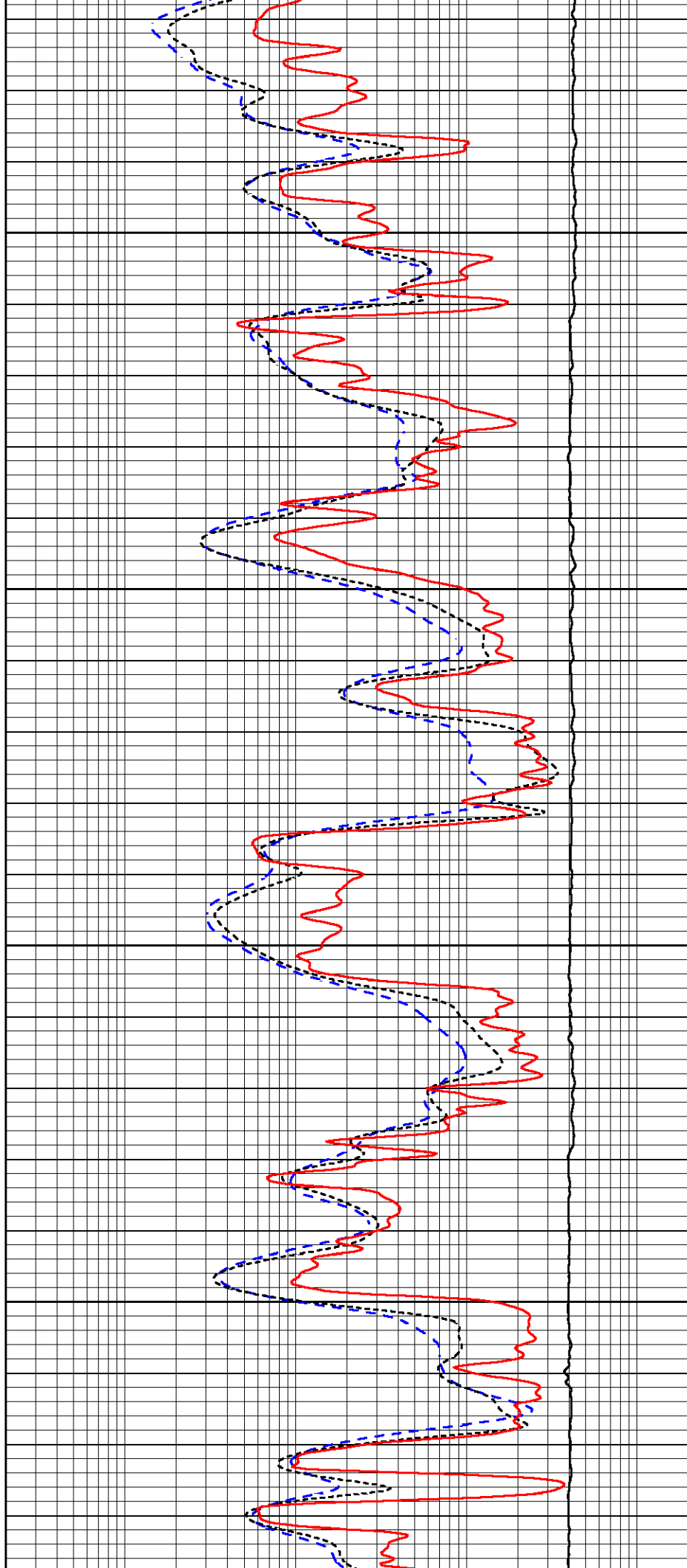


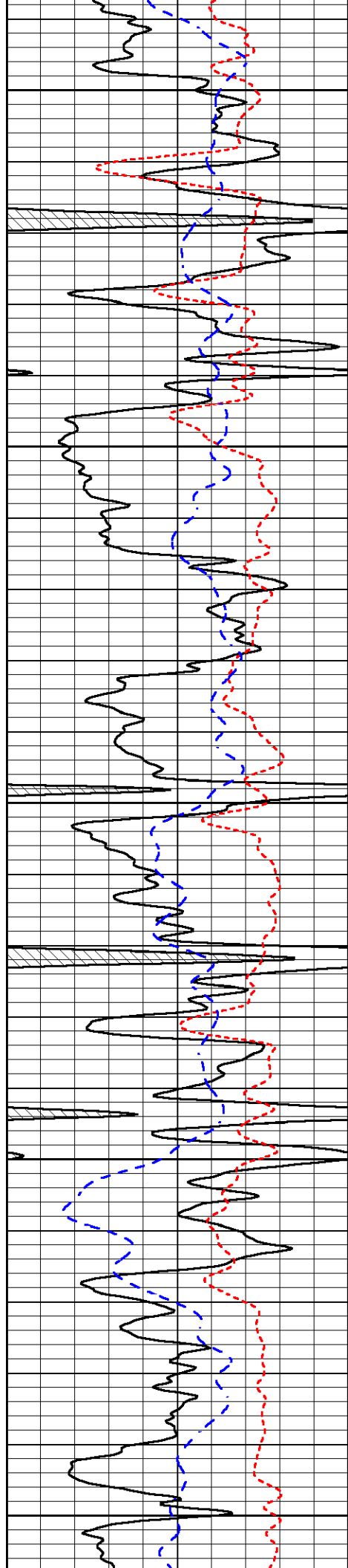
4250

4300

4350

4400





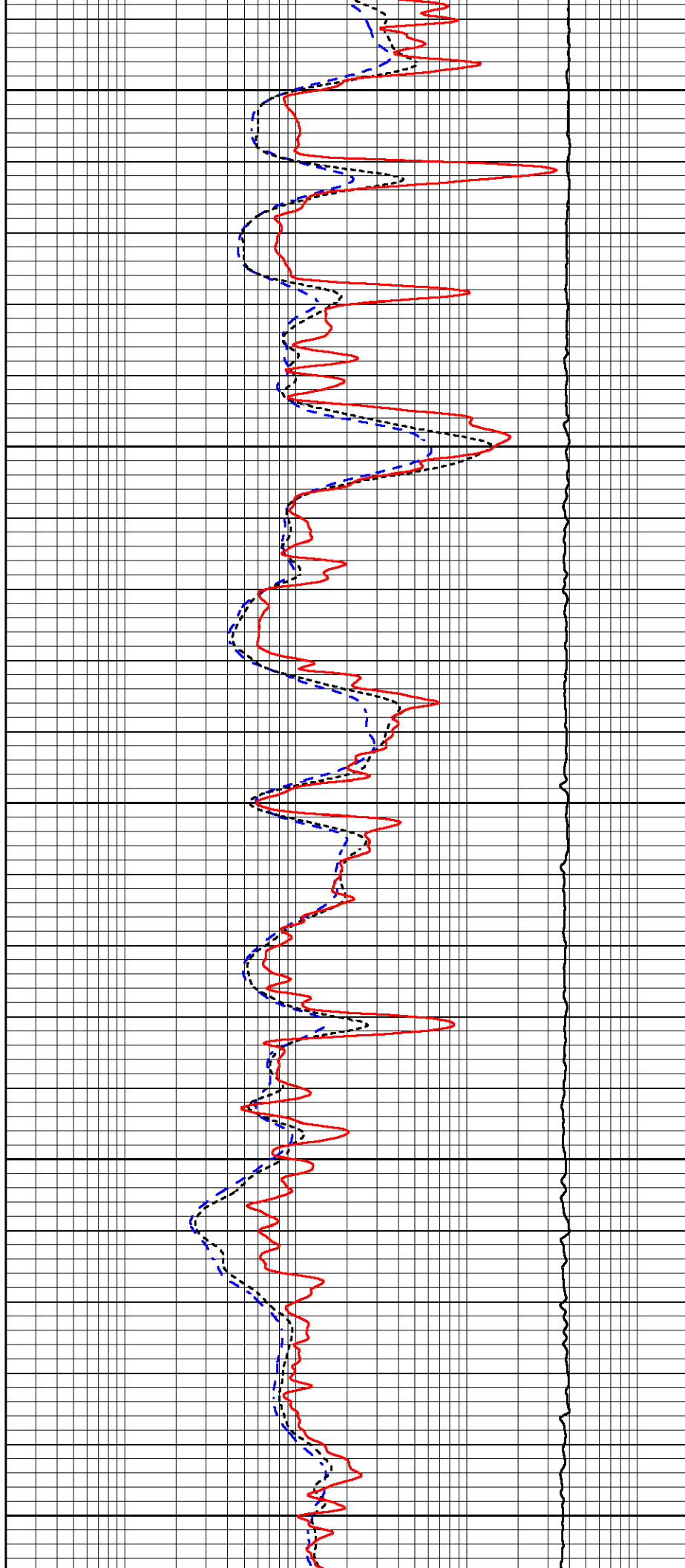
4450

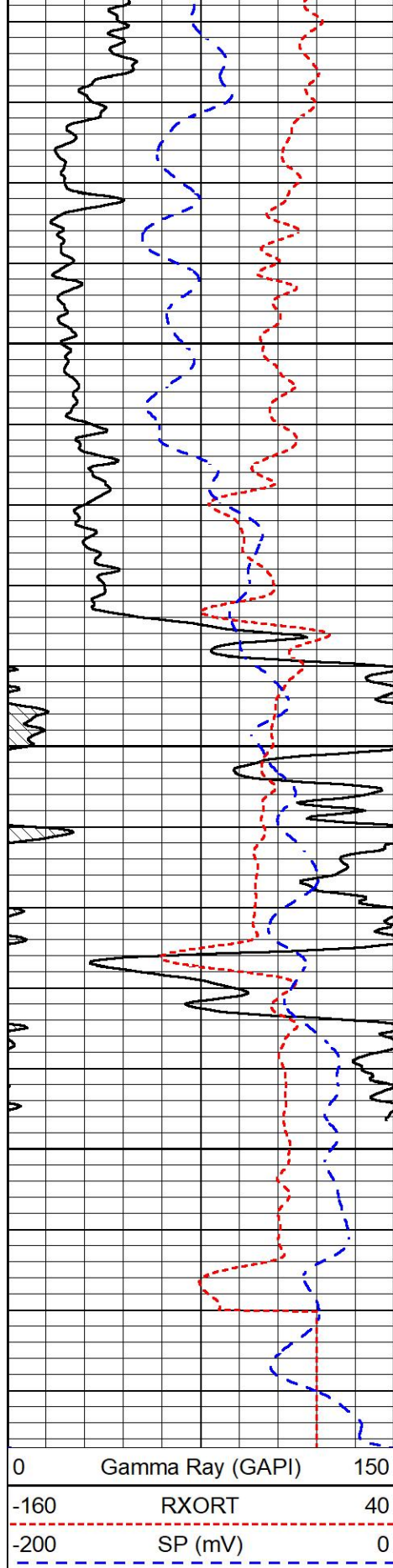
4500

4550

4600

4650

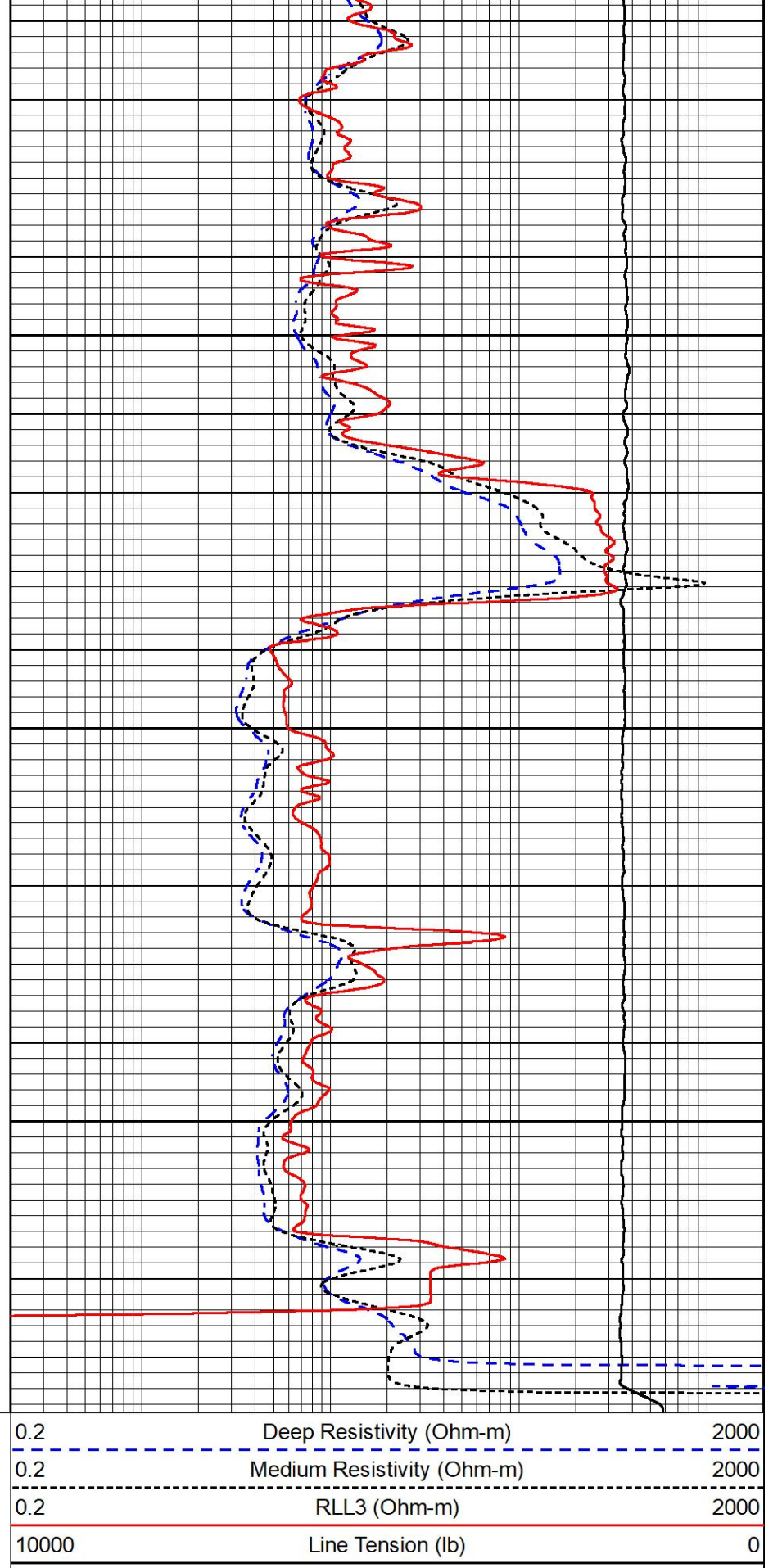




4700

4750

4800



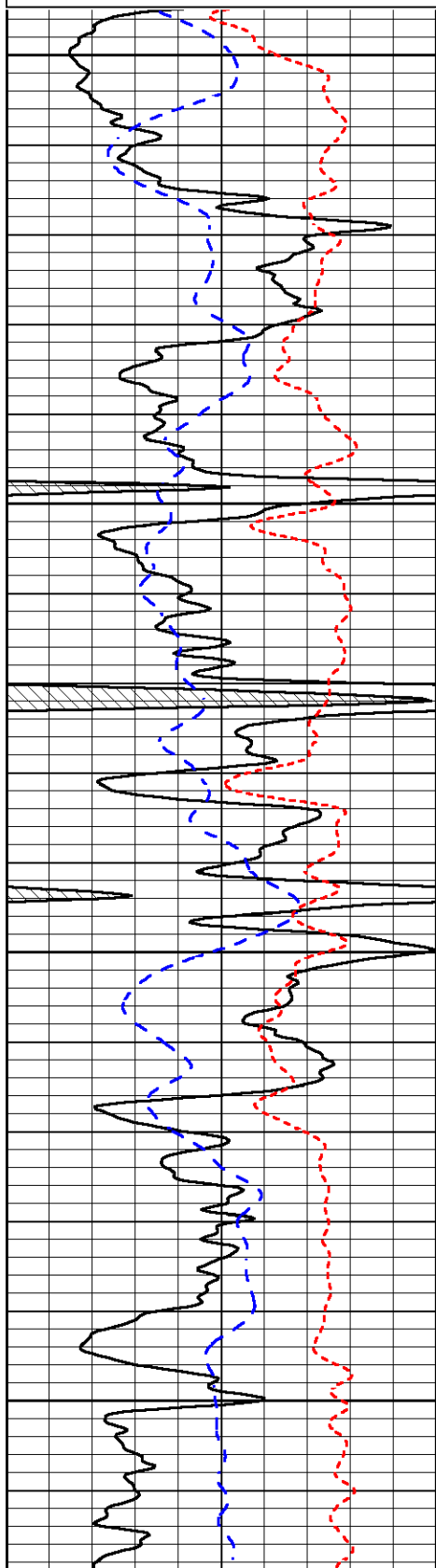
REPEAT SECTION

REPEAT PASS

Database File griffin_anna #2.db
Dataset Pathname StkMI/pass2.1
Presentation Format _dil
Dataset Creation Mon Sep 25 20:28:47 2023
Charted by Depth in Feet scaled 1:240

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

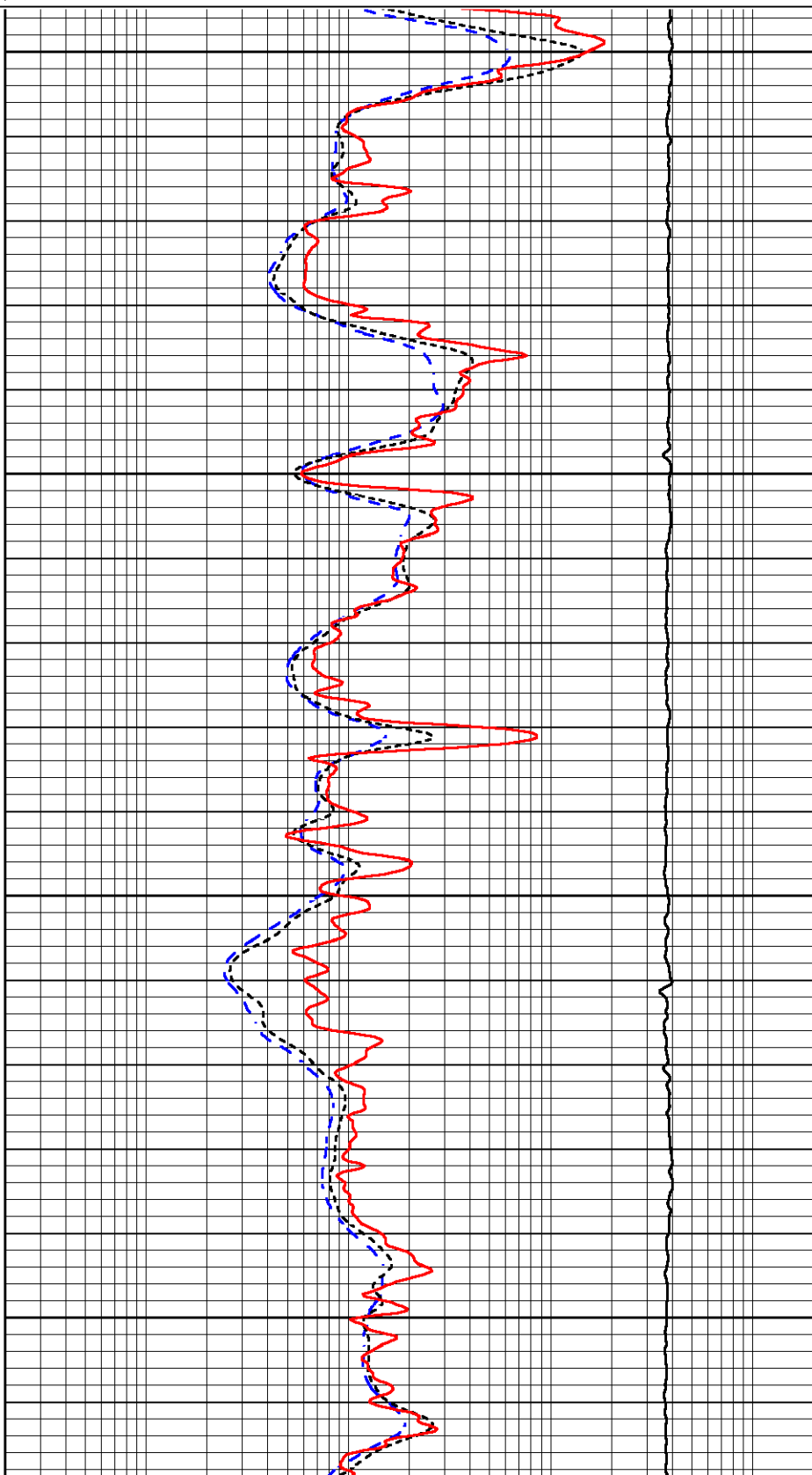


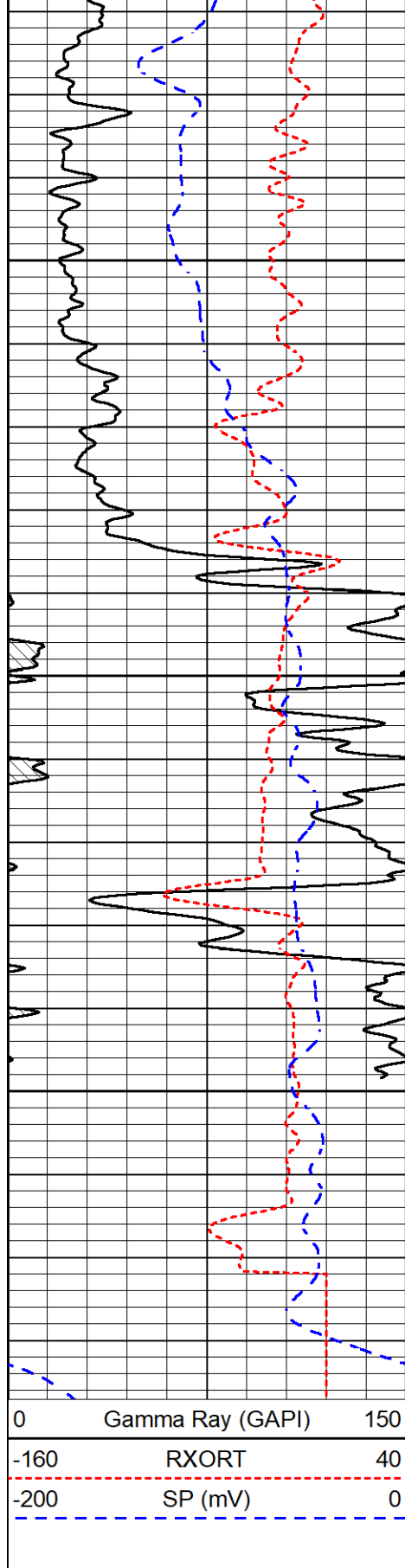
4500

4550

4600

4650

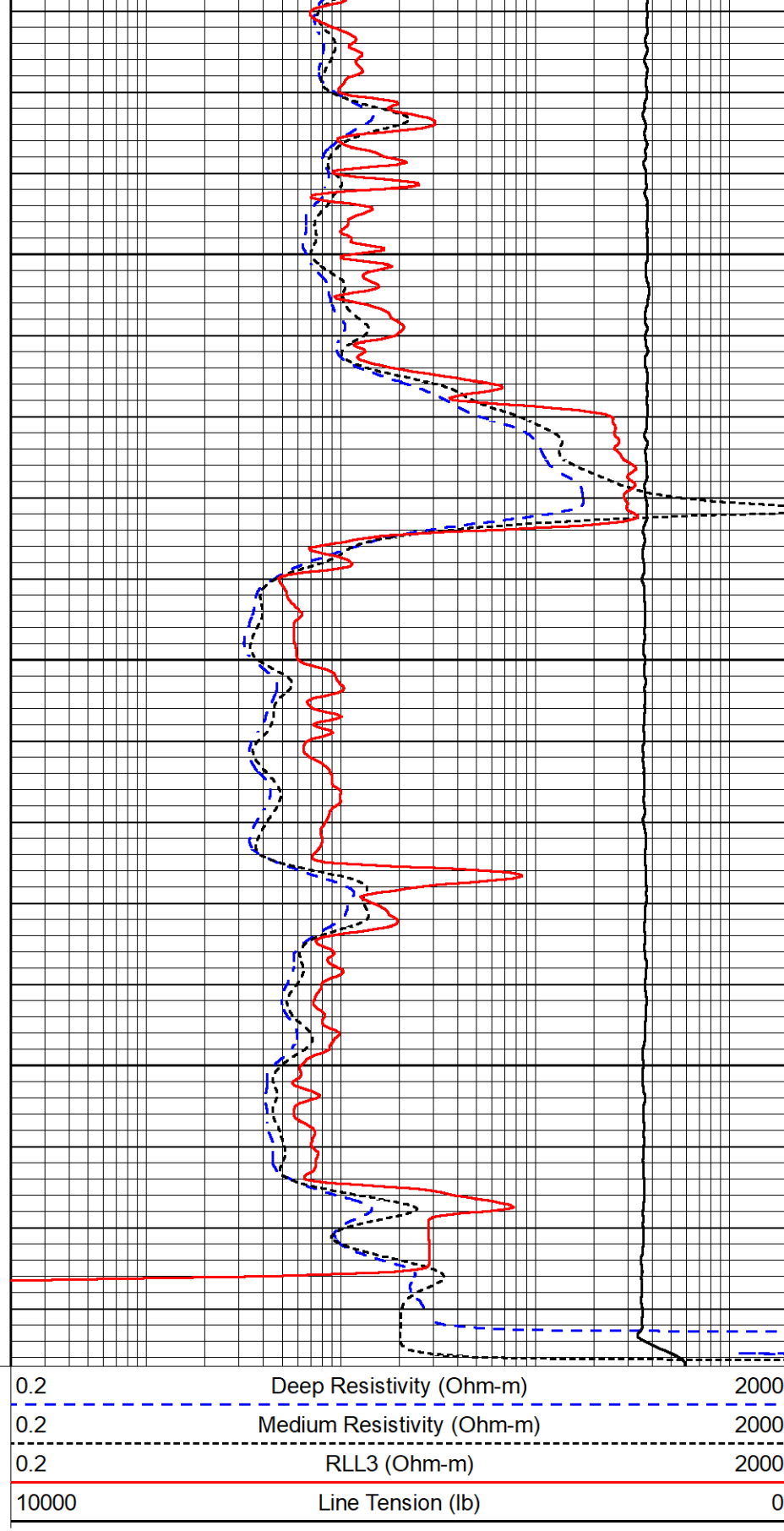




4700

4750

4800



Calibration Report

Database File griffin_anna #2.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Mon Sep 25 21:14:15 2023

Dual Induction Calibration Report

Serial Model

507 M8W

		Readings		References			Results	
Loop:	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	0.430	-75.000

Microlog Calibration Report

Serial-Model: Performed:	401-PSIML Wed Sep 20 22:08:14 2023
-----------------------------	---------------------------------------

		Readings		References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	18500.0000	-1.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	17000.0000	-0.7500
Caliper	1.0052	1.0858		5.0000	16.5000	in	142.7190	-138.8000

LITHODENSITY Calibration Report

Serial Number:	704-10								
Tool Model:	STEP LITHO								
Performed:	Fri Jun 23 15:26:01 2023								
Source:									
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	51	54	202	252	21	70	42	1	cps
LS:	85	96	363	462	53	147	97	3	cps
Aluminum:									
SS:	870	1018	2321	2004	37	71	43	2	cps
LS:	1057	1828	3315	1570	61	147	91	5	cps
Magnesium:									
SS:	1459	1669	3829	2914	42	70	46	3	cps
LS:	4526	7550	13047	4982	98	135	93	13	cps
Aluminum+Iron:									
SS:	553	719	1939	1750	37	72	45	2	cps
LS:	613	1297	2812	1404	60	146	96	4	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.245		
LS:							0.205		
Aluminum:									
SS:		2.6000	2.6000	g/cc			0.240		
LS:		2.6000	2.6000	g/cc			0.236		
Magnesium:									
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.210		
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.184		
Aluminum+Iron:									
SS:						6.1800	0.228		
LS:						6.1800	0.206		

Before Survey									
Performed:	Wed Feb 9 13:15:42 2022								
SS:	0	0	0	0	0	0	0	0	cps
LS:	1370	1580	3705	3037	48	80	50	4	cps

After Survey Performed: Wed Feb 9 13:16:02 2022 SS: 0 0 0 0 0 0 0 0 cps LS: 1400 1600 3800 3100 60 100 70 6 cps									
Caliper: Reference: Reading: Small Ring: 6.0 in 0.2 Large Ring: 15.0 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			
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: 102 Tool Model: M&W Performed: Fri Aug 24 11:16:10 2018 Calibrator Value: 1.0 GAPI Background Reading: 0.0 cps Calibrator Reading: 1.0 cps Sensitivity: 0.5250 GAPI/cps									



MIDWEST WIRELINE

Well	Anna #2
Field	Moffett
County	Barber
State	Kansas