

MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Griffin Management, LLC	
Well	Kay #1
Field	Unknown
County	Pratt
State	Kansas
Company Griffin Management, LLC	
Well	Kay #1
Field	Unknown
County	Pratt
State	Kansas
Location:	API #: 15-151-22525-00-00
Permanent Datum	S2 - S2 - NE
Log Measured From	2310' FNL & 1320' FEL
Drilling Measured From	SEC 32 TWP 29S RGE 15W
Ground Level	Elevation 2013'
Kelly Bushing	Elevation 2024'
Kelly Bushing	D.F. N/A
	G.L. 2013'
Date	2/23/2021
Run Number	One
Depth Driller	4860'
Depth Logger	4862'
Bottom Logged Interval	4861'
Top Log Interval	250'
Casing Driller	8.625" @ 260'
Casing Logger	262'
Bit Size	7.875"
Type Fluid in Hole	Chemical
Salinity, ppm CL	4400
Density / Viscosity	9.4 50
pH / Fluid Loss	11.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.80 @ 80
Rmt @ Meas. Temp	0.60 @ 80
Rmc @ Meas. Temp	1.08 @ 80
Source of Rmt / Rmc	CHARTS
Rm @ BHT	0.51 @ 125
Operating Rig Time	3 Hours
Max Rec. Temp. F	125
Equipment Number	P-24
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Charles Griffin
	Eli J. 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.

Haviland,
East to SW 140th Ave, South to SW 110th St, 1 East,
1/2 South, West into

Log Measured From: Kelly Bushing

11 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: Charles Griffin
Secondary Witness: Eli J. Felts
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73			CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (817-947)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
		Dataset: griffin_kay 1.db: field/well/stkml/pass3.4 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in					

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_kay 1.db
Dataset field/well/stkml/pass3.4/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 100	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 230	degF 0	Off	ft 0

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

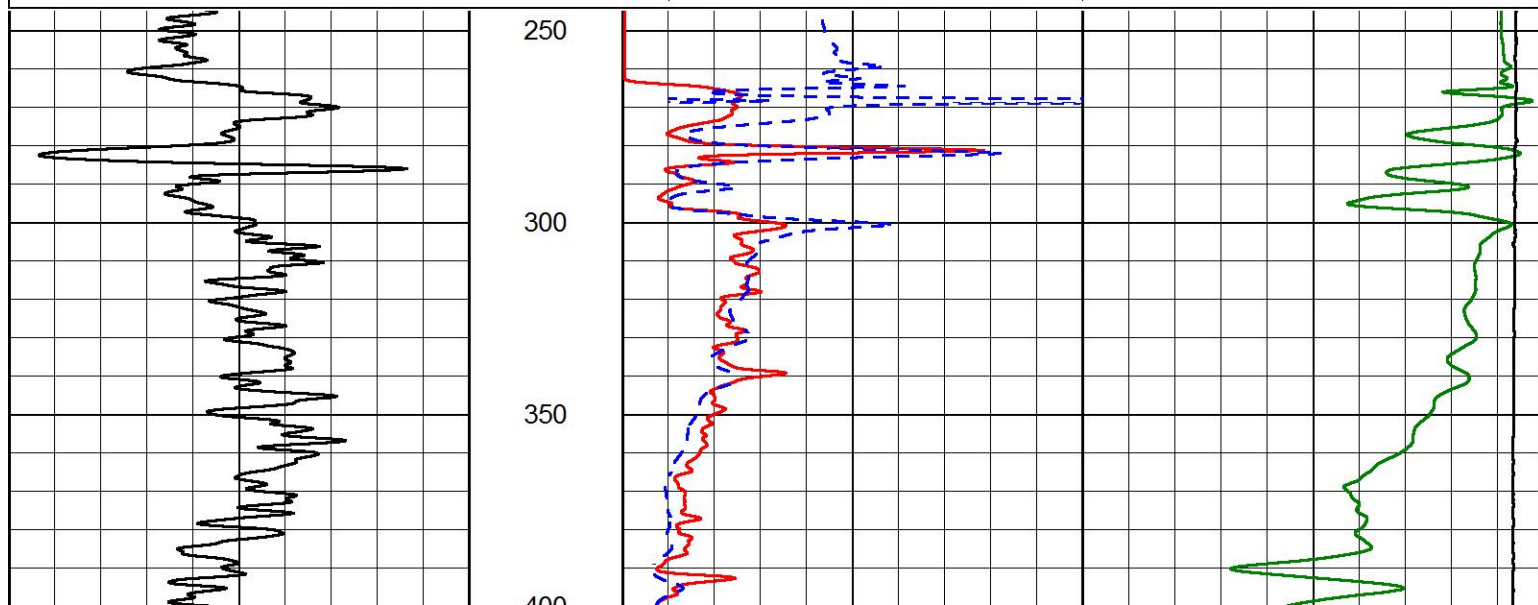


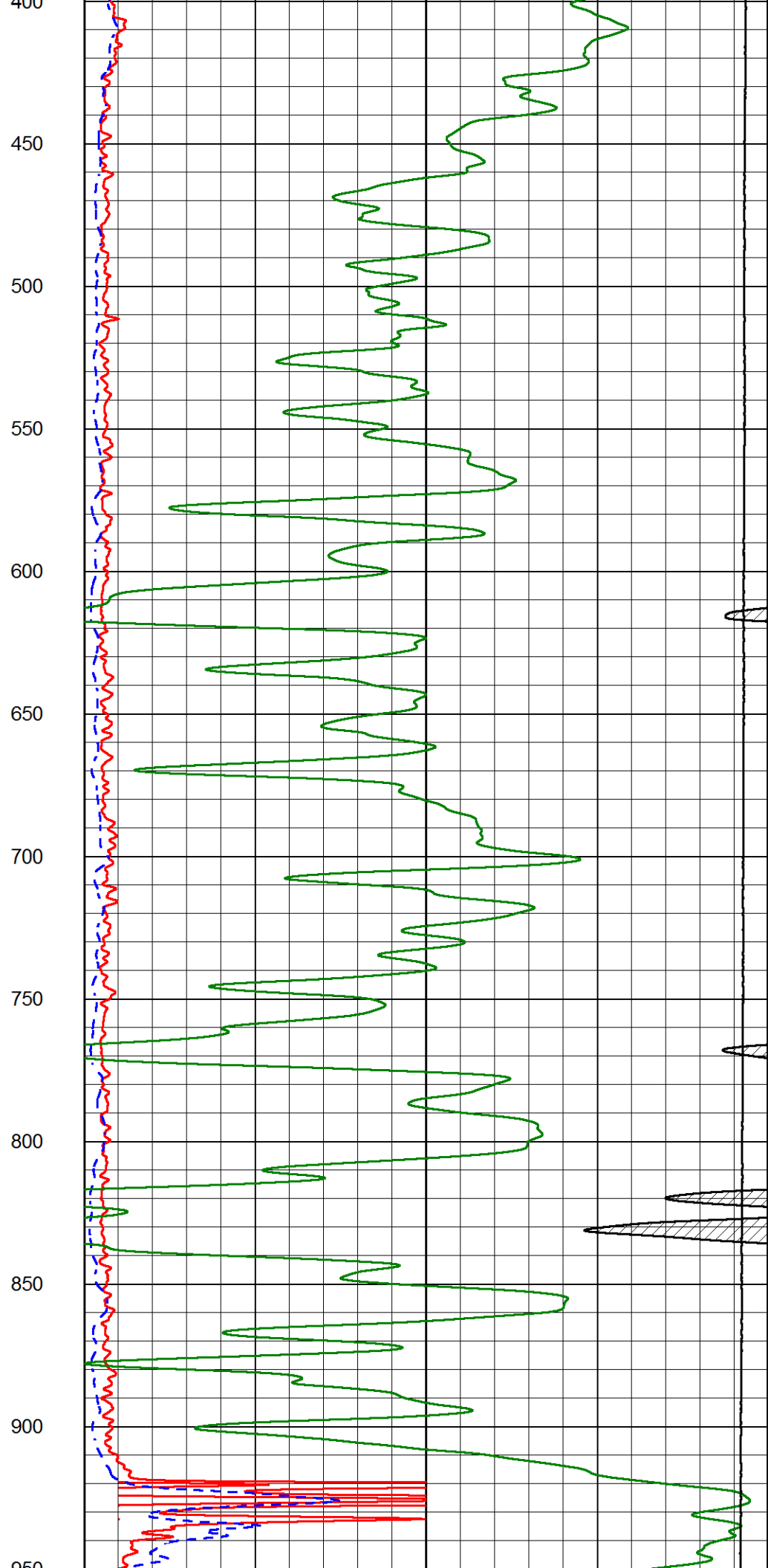
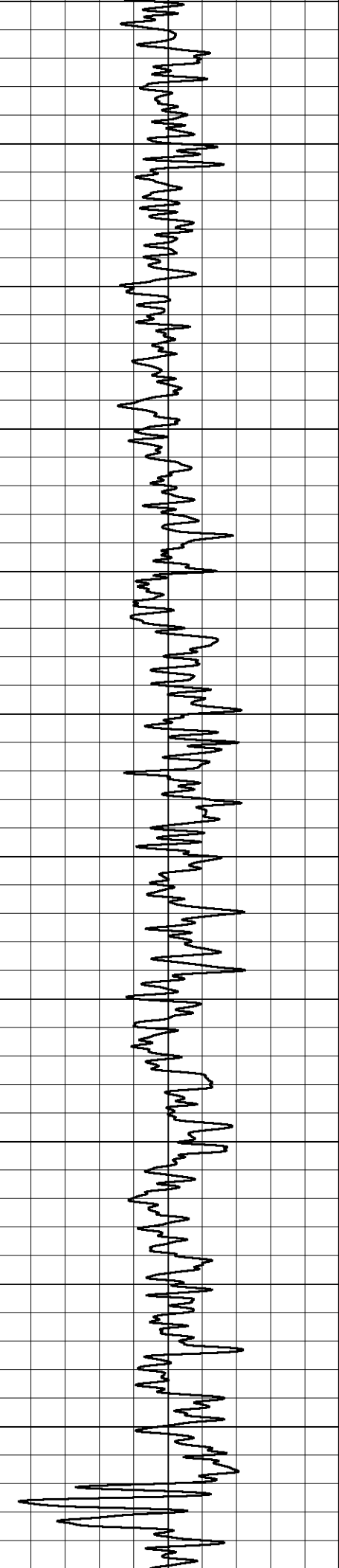
MIDWEST WIRELINE

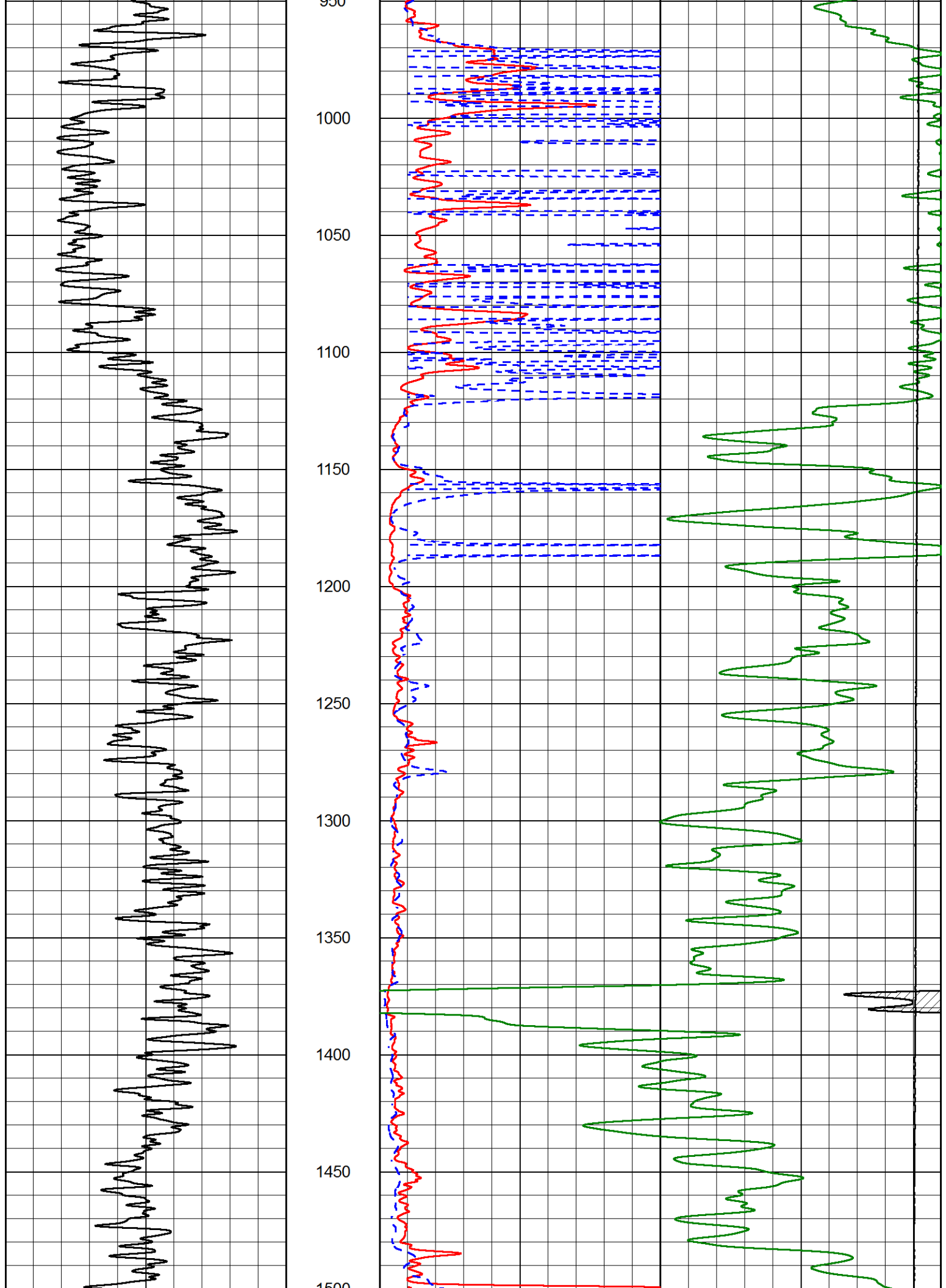
MAIN PASS

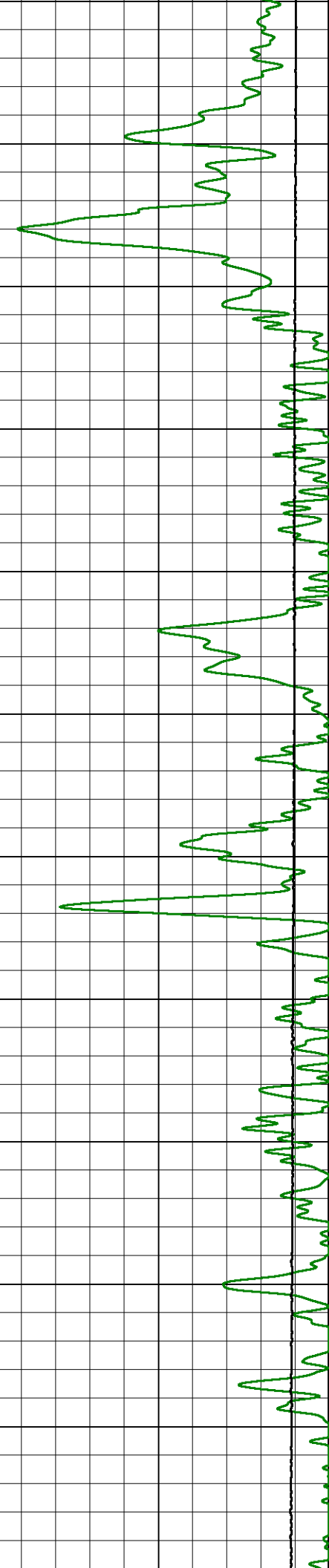
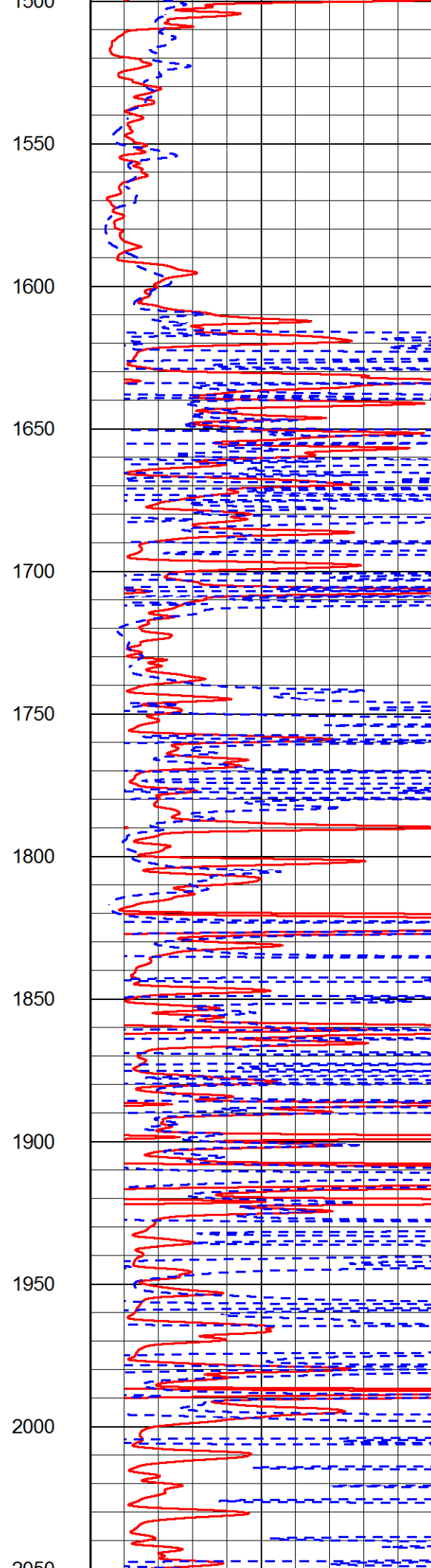
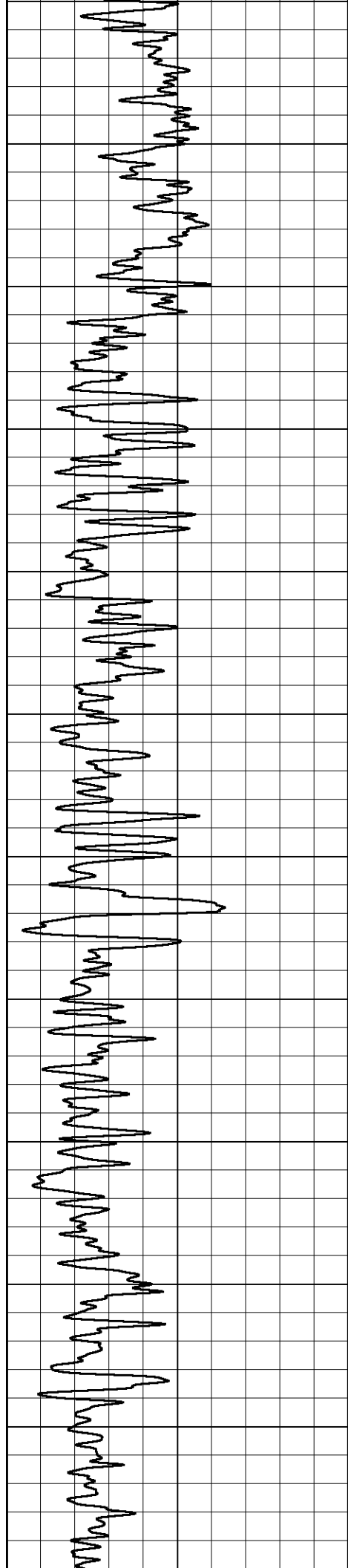
Database File griffin_kay 1.db
Dataset Pathname stkml/pass4.1
Presentation Format _dil2in
Dataset Creation Tue Feb 23 18:31:05 2021
Charted by Depth in Feet scaled 1:600

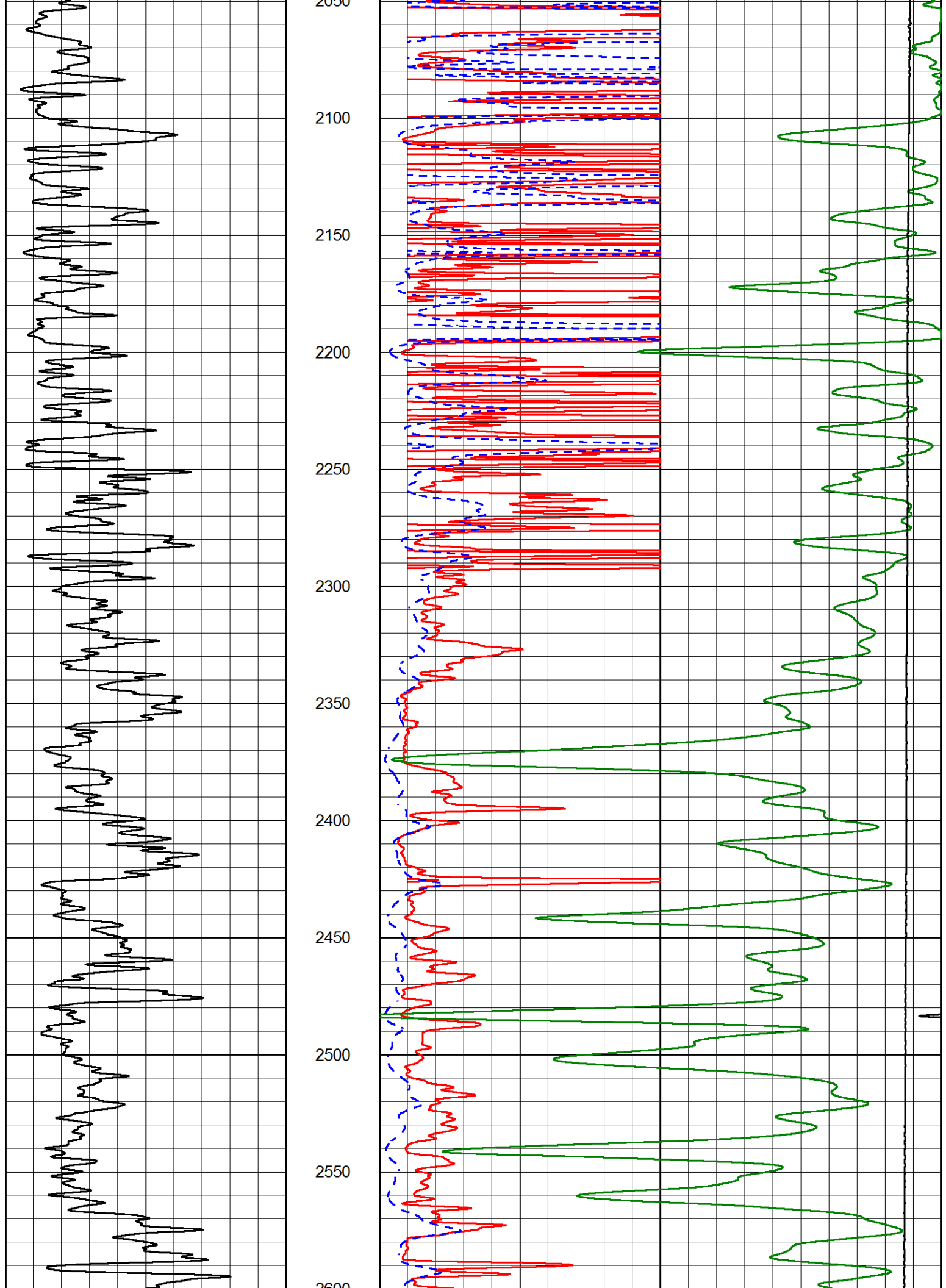
0	GAMMA RAY (GAPI)	150	1000	CONDUCTIVITY (mmho/m)	0
			15000	Line Tension (lb)	0
			0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RLL3 (Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

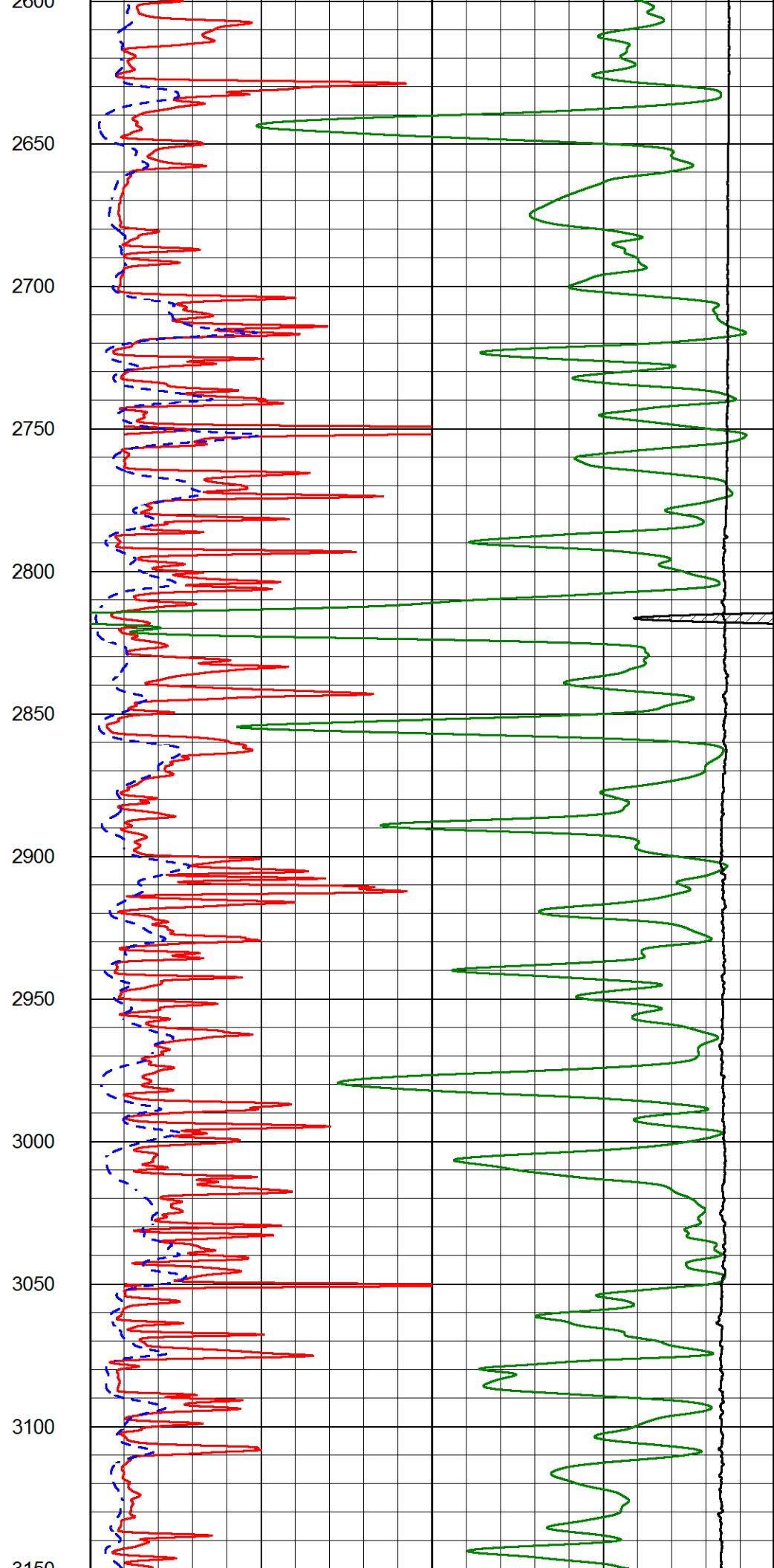
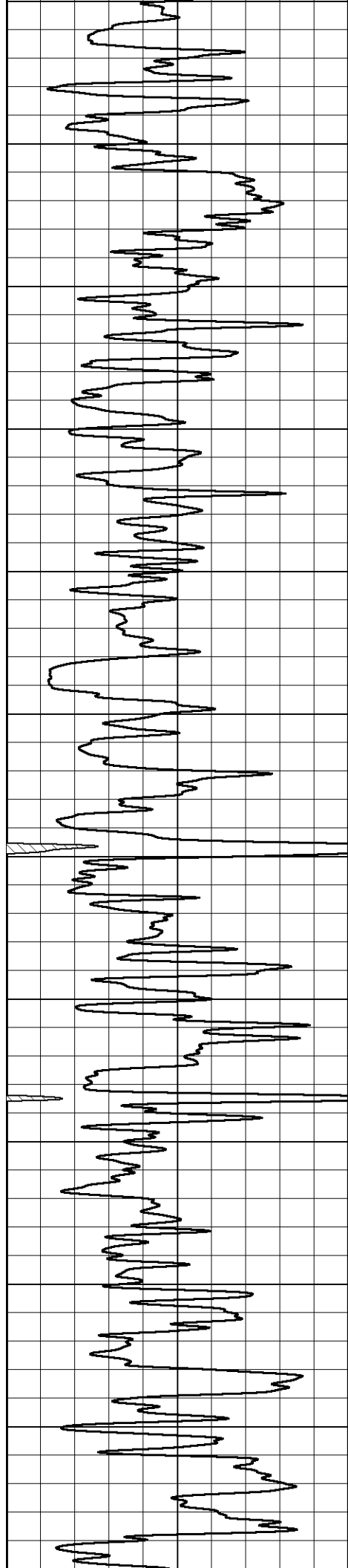


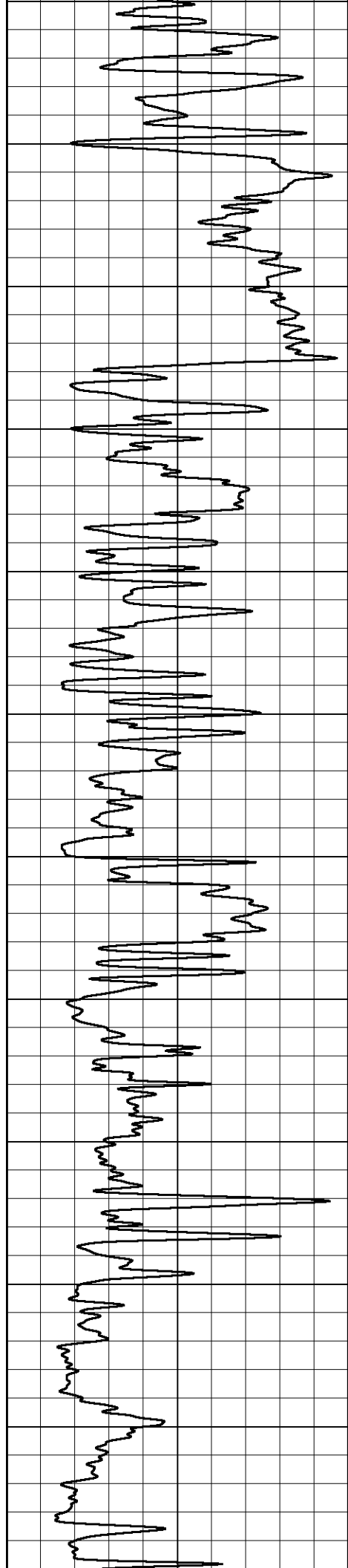




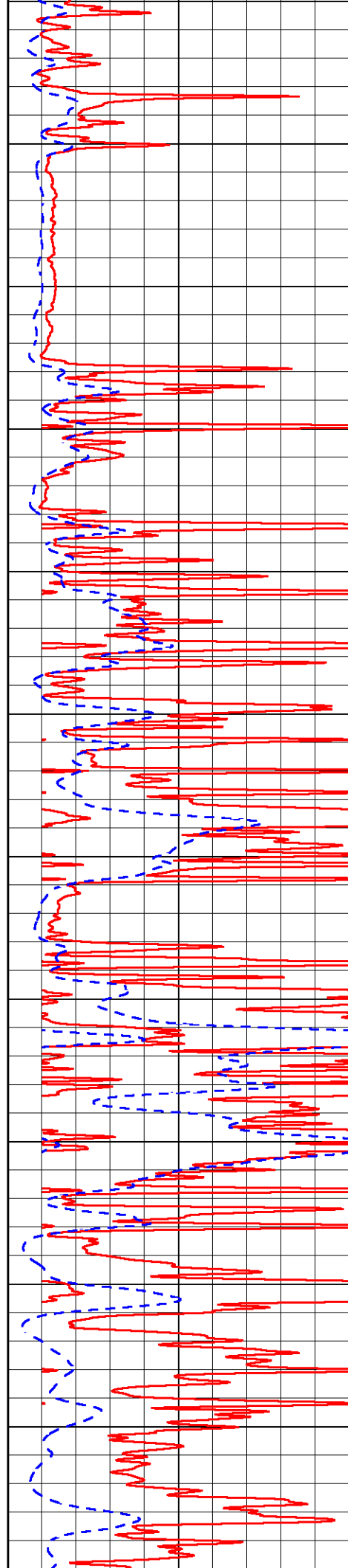


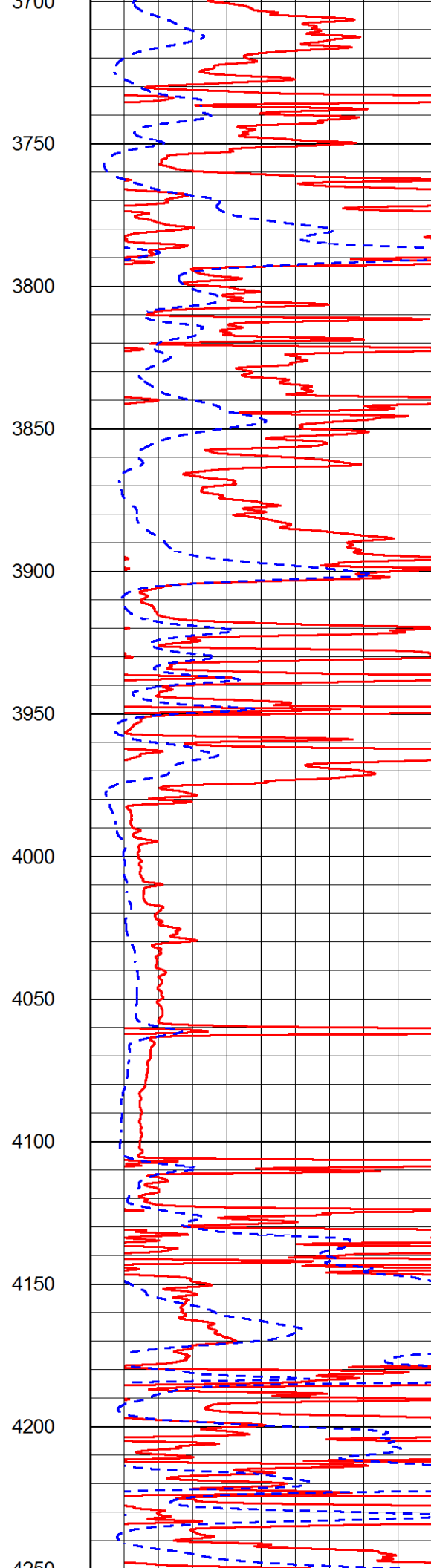
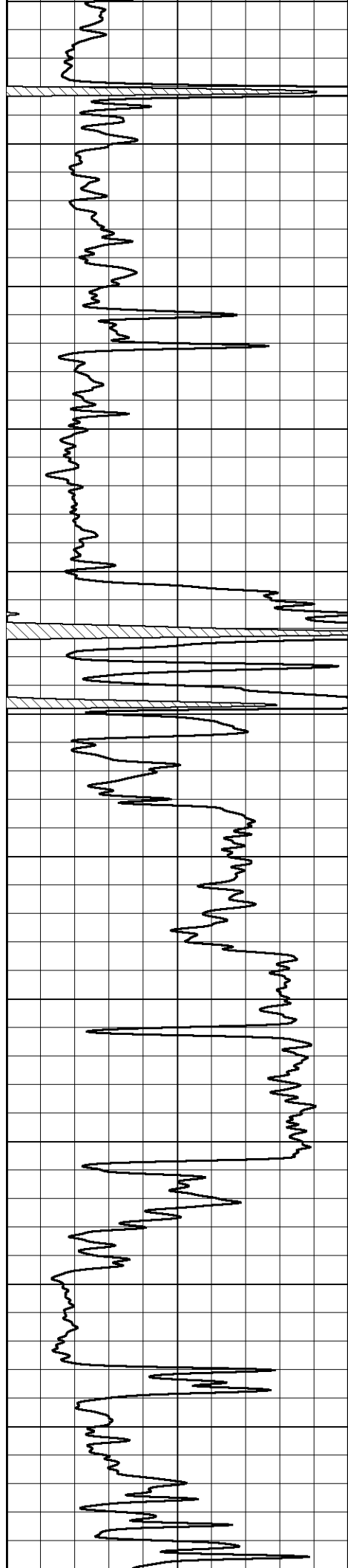


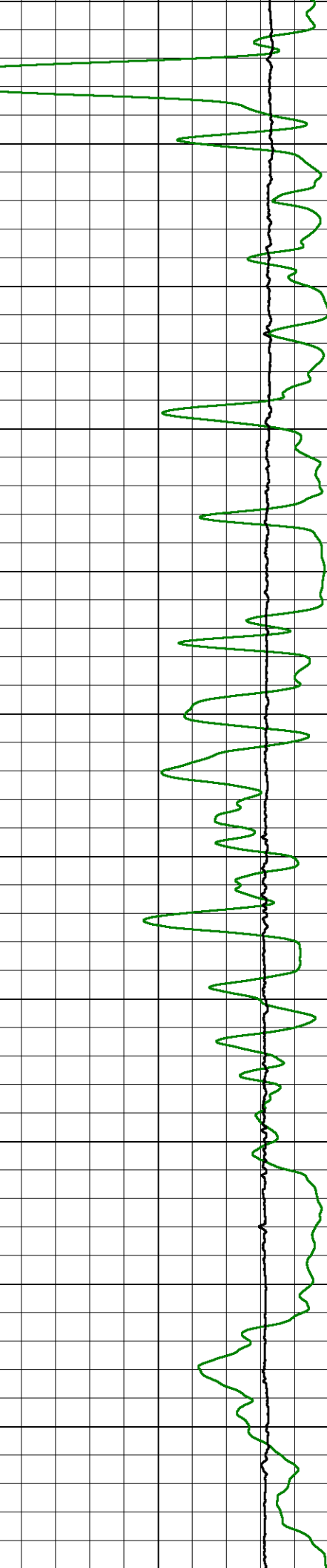
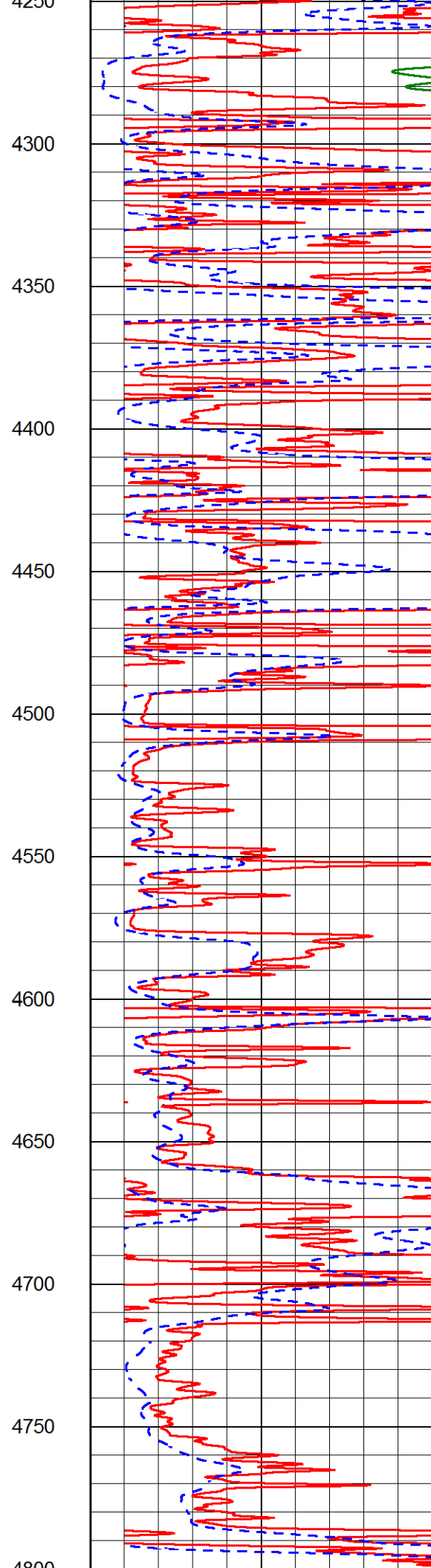
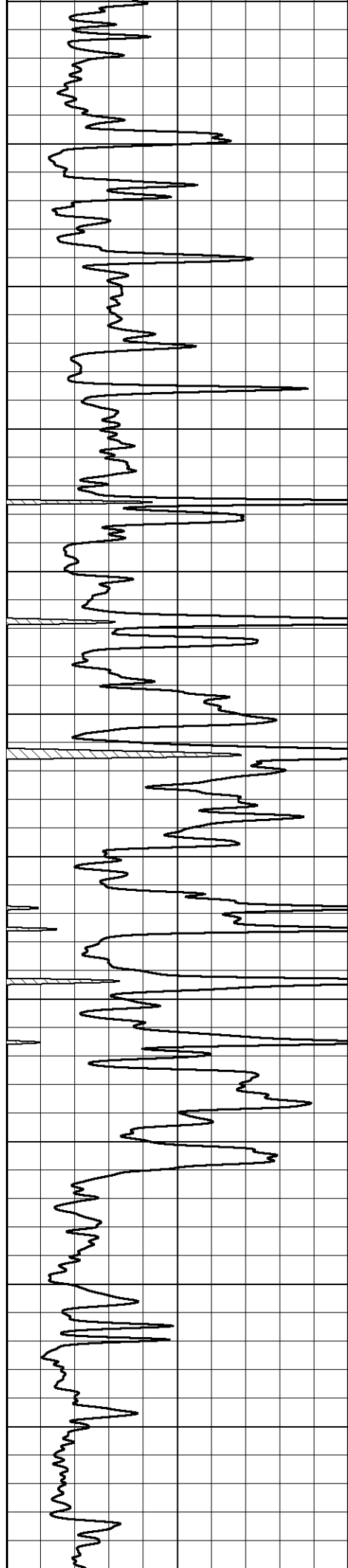


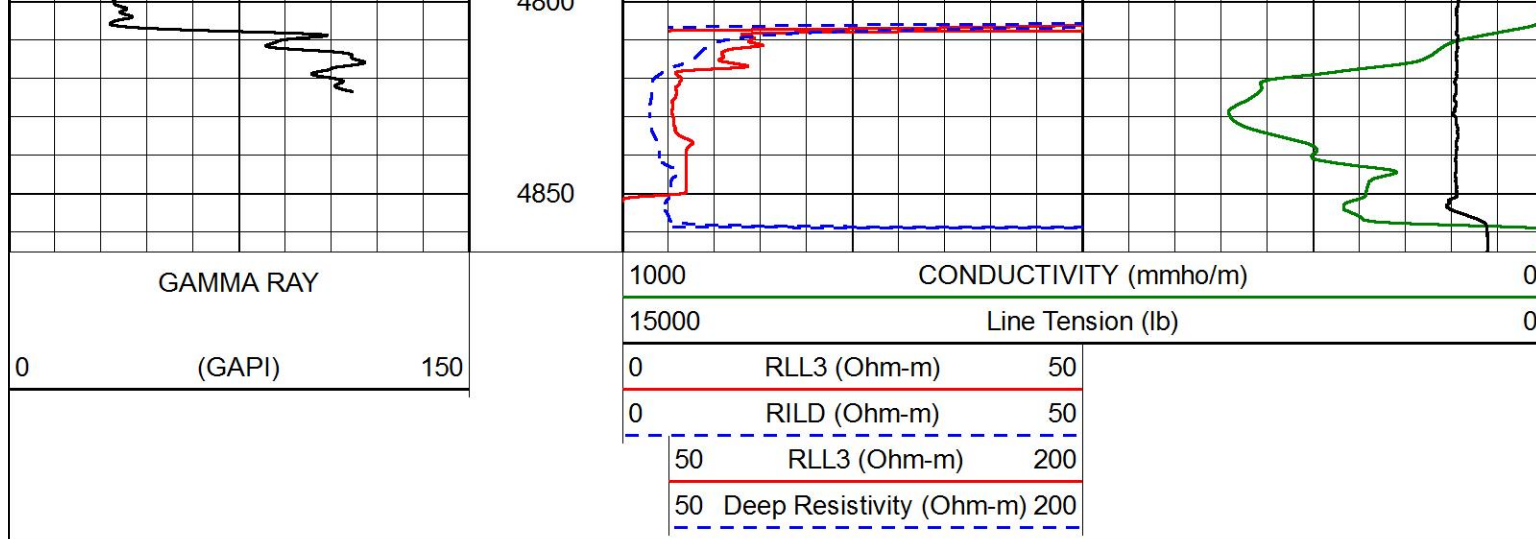


3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700







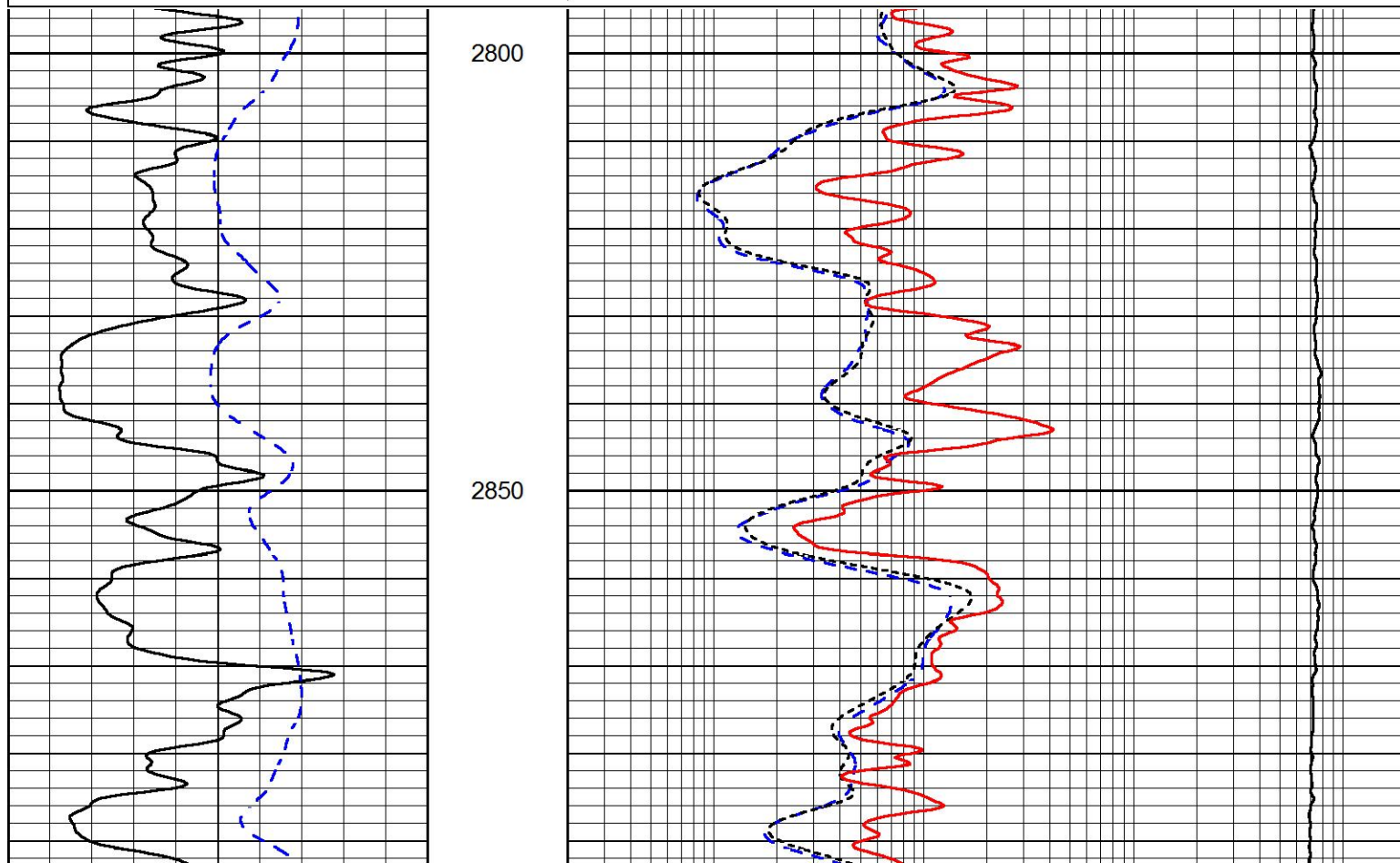


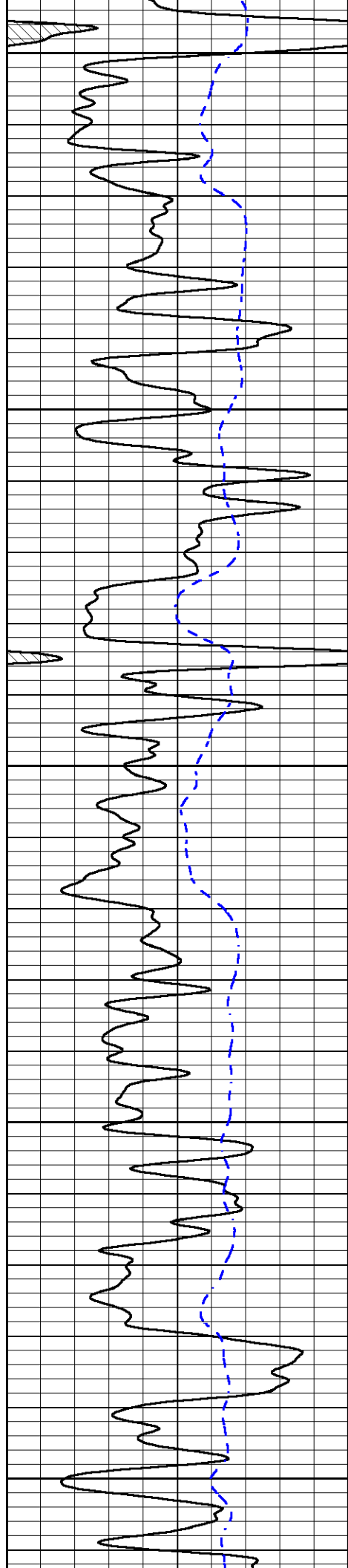
MIDWEST WIRELINE

MAIN PASS

Database File griffin_kay 1.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _dil
 Dataset Creation Tue Feb 23 18:10:04 2021
 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





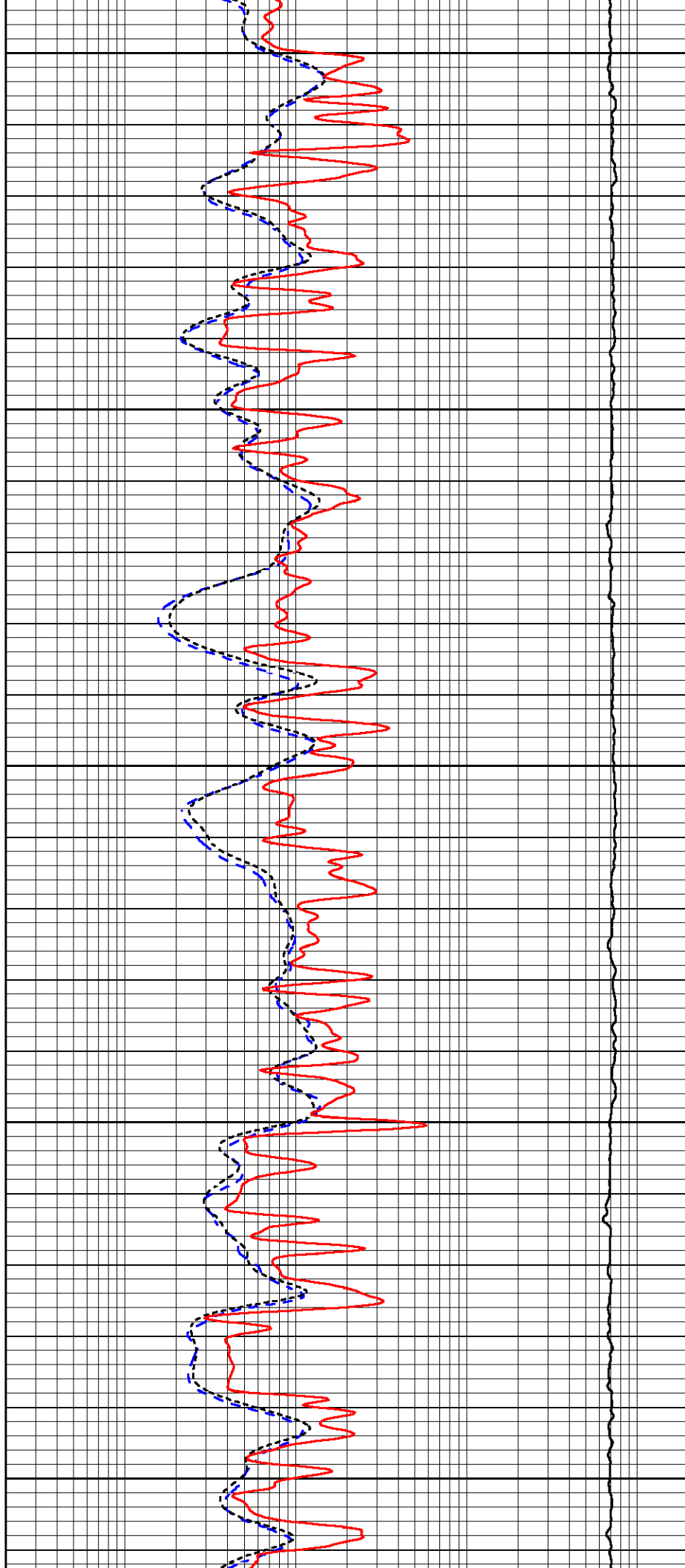
2900

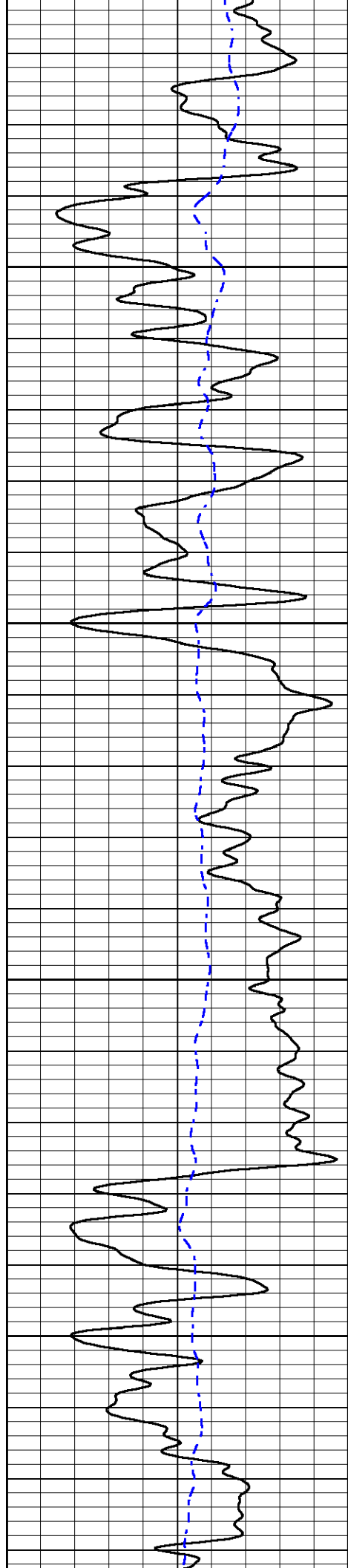
2950

3000

3050

3100



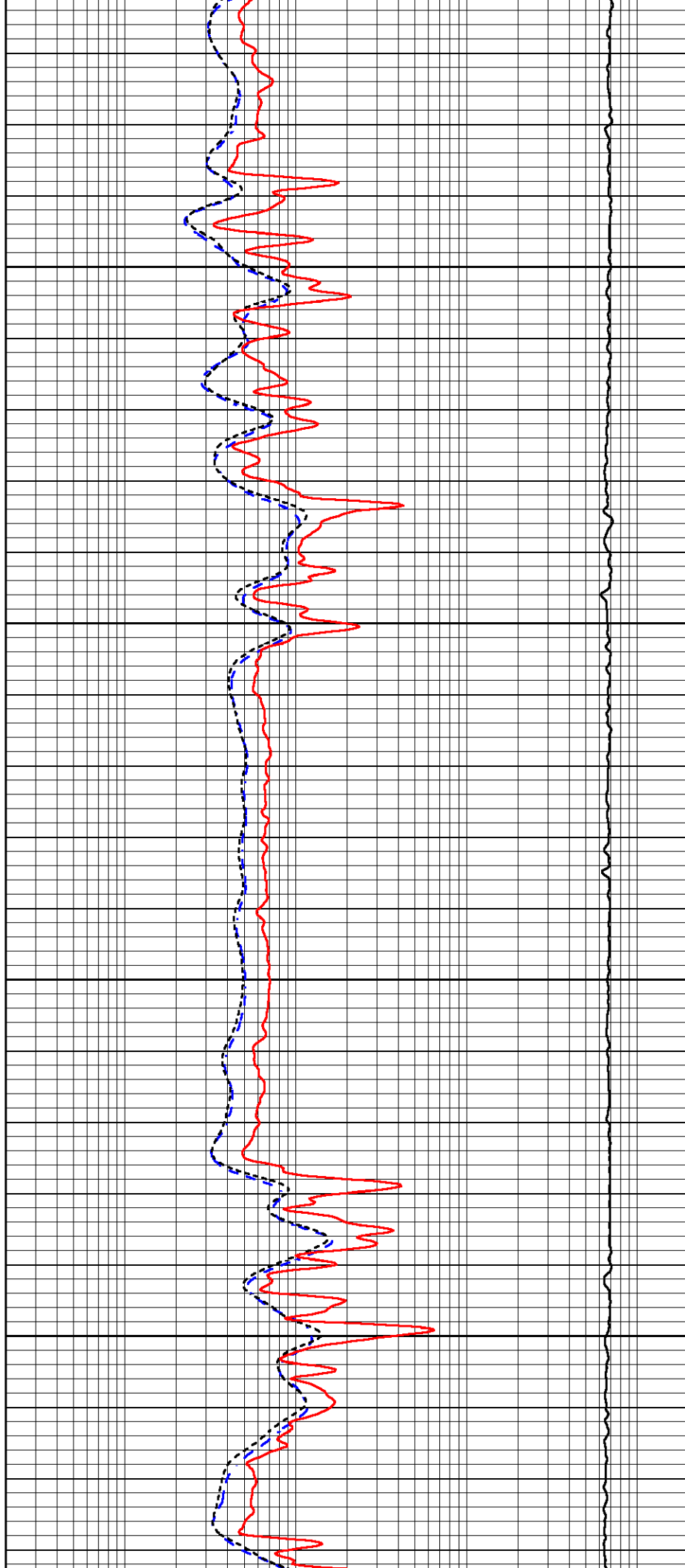


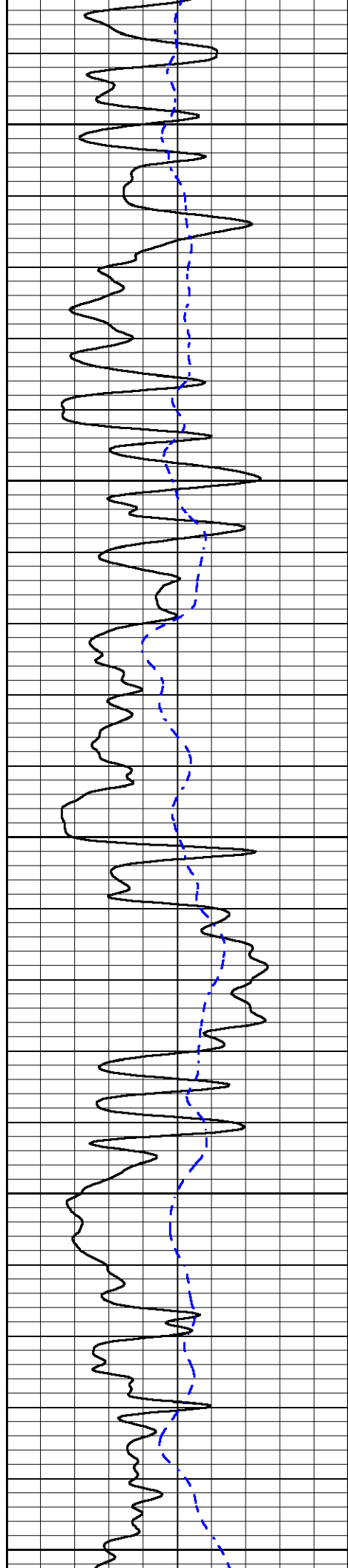
3150

3200

3250

3300





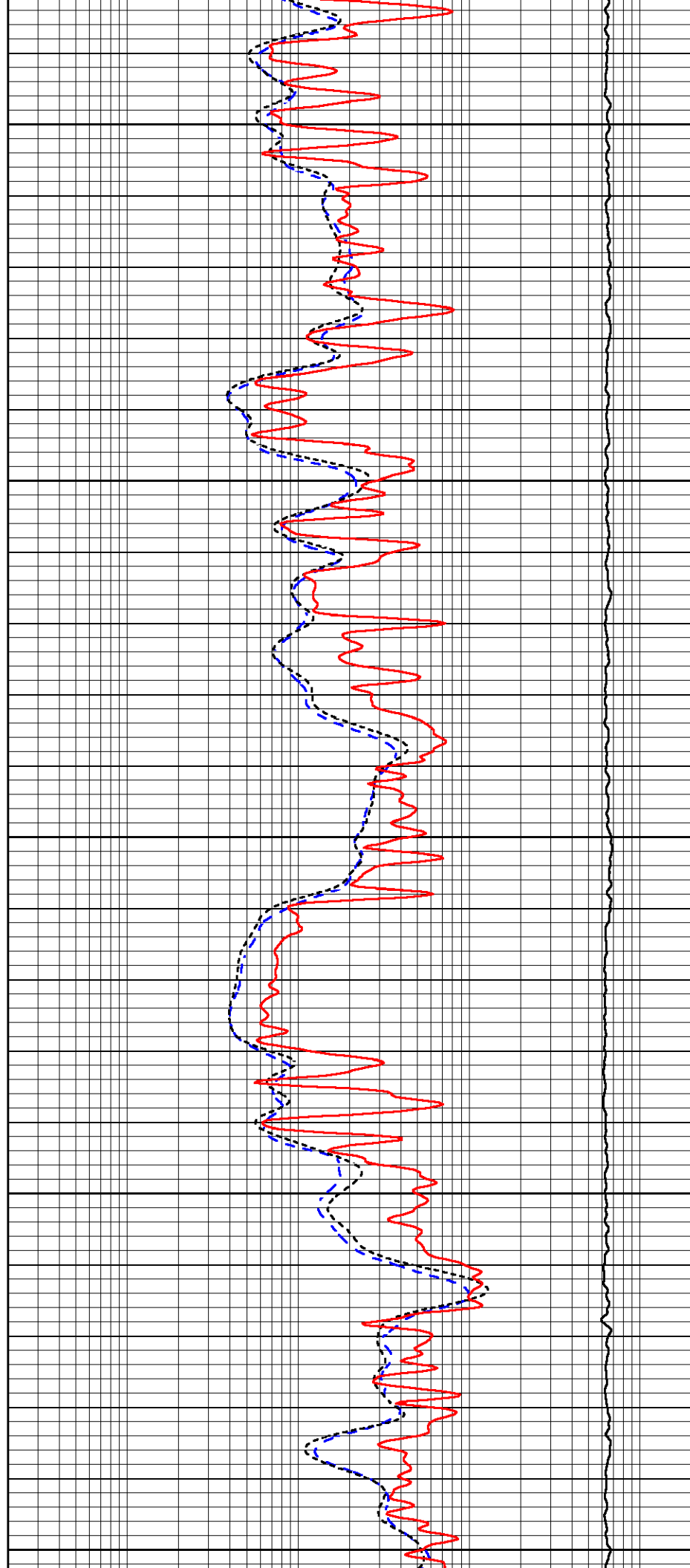
3350

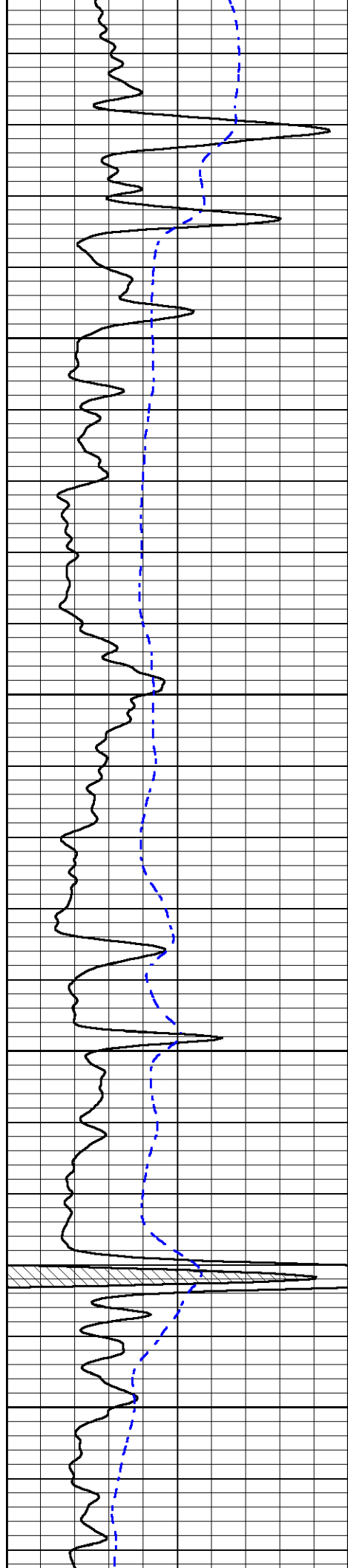
3400

3450

3500

3550



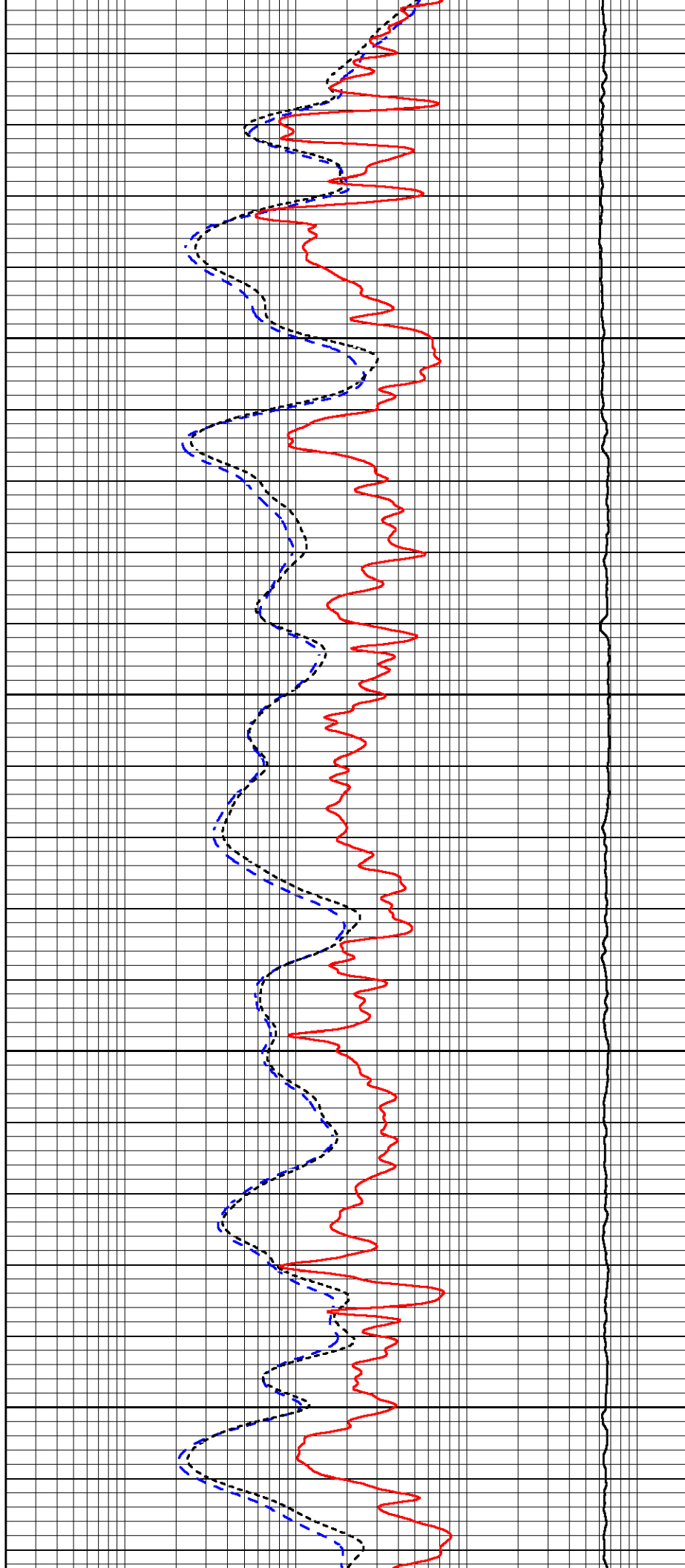


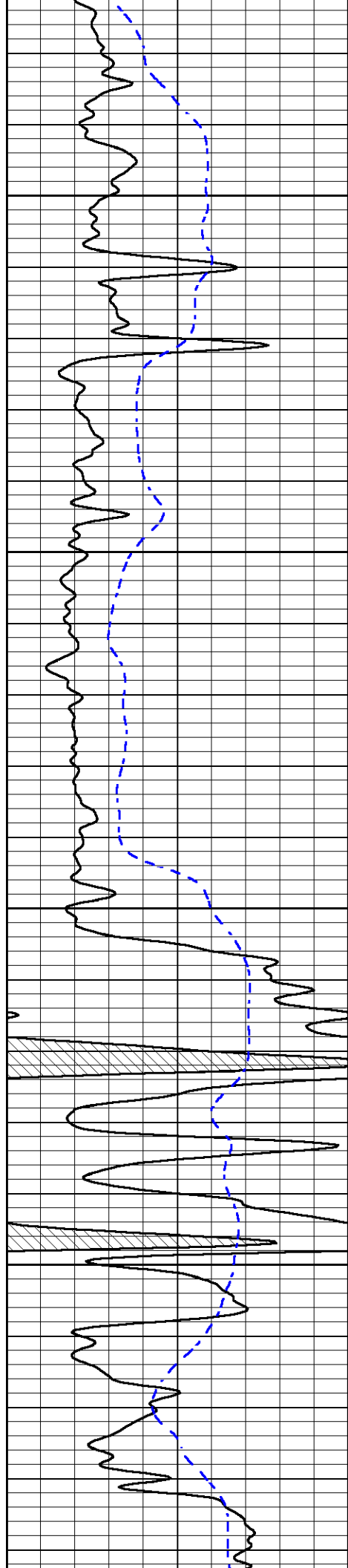
3600

3650

3700

3750



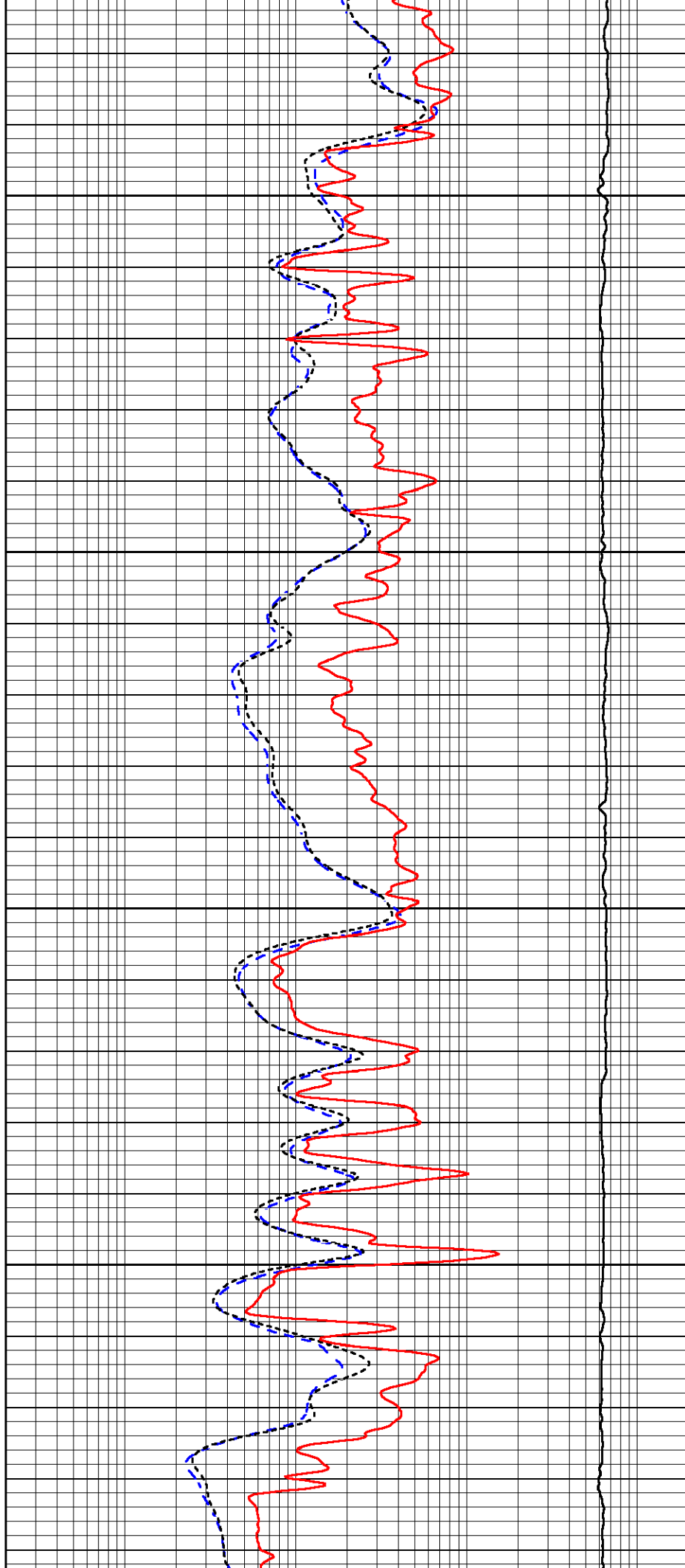


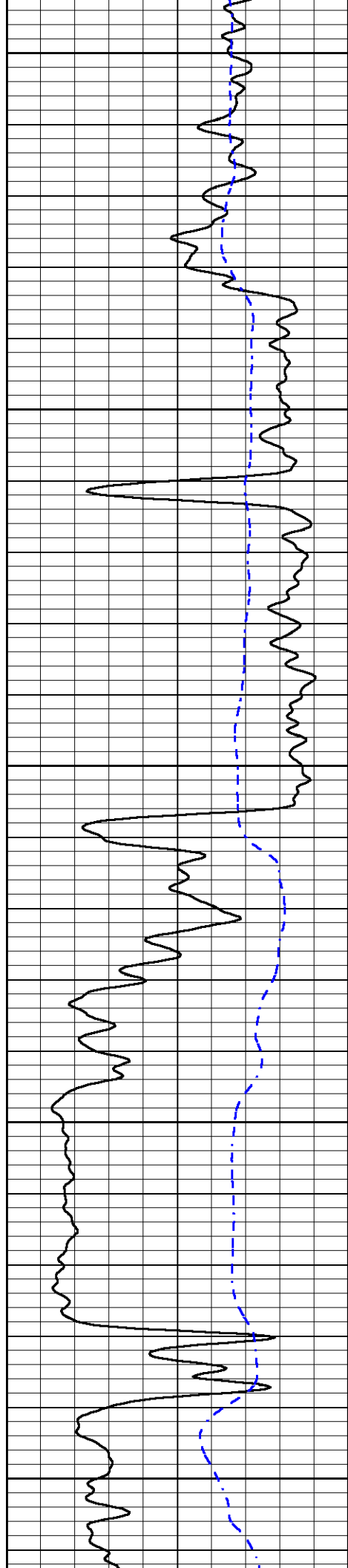
3800

3850

3900

3950





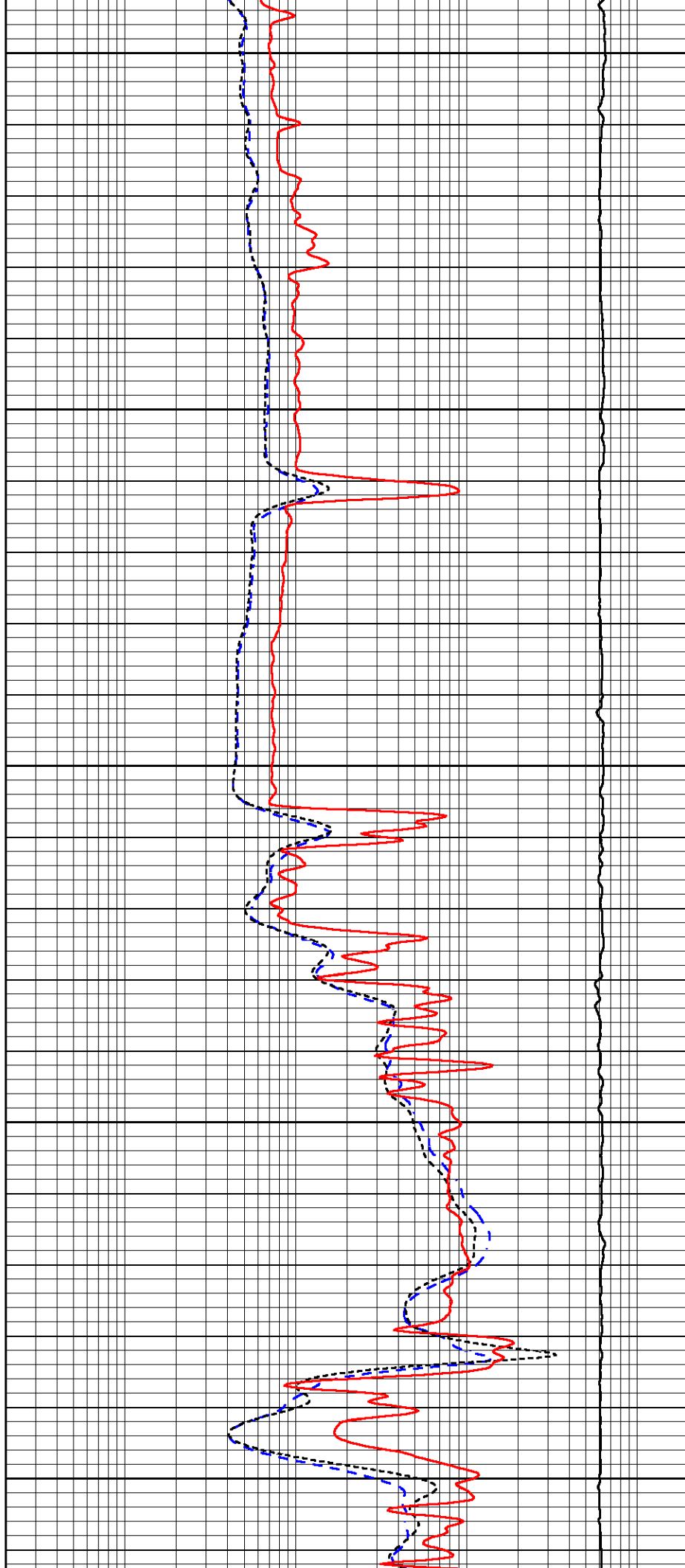
4000

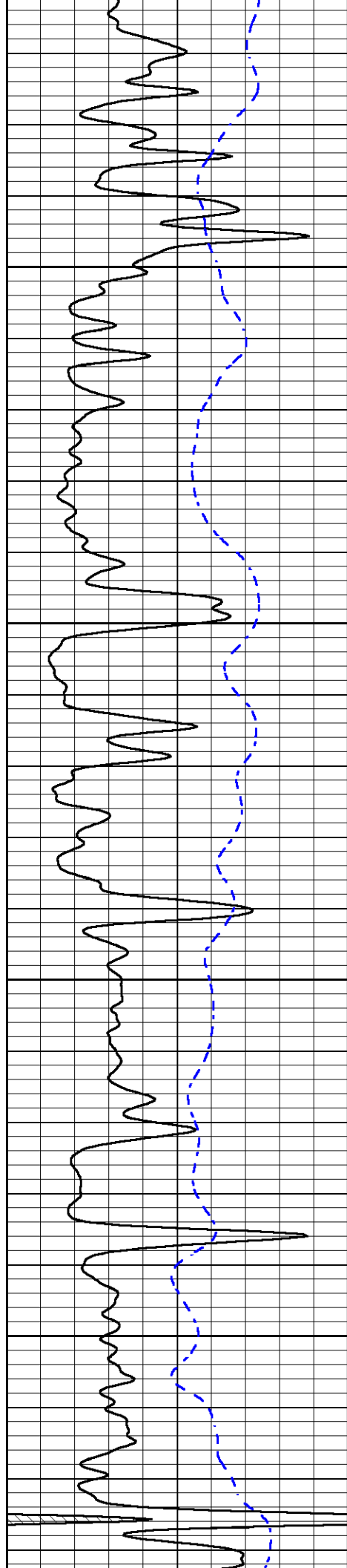
4050

4100

4150

4200



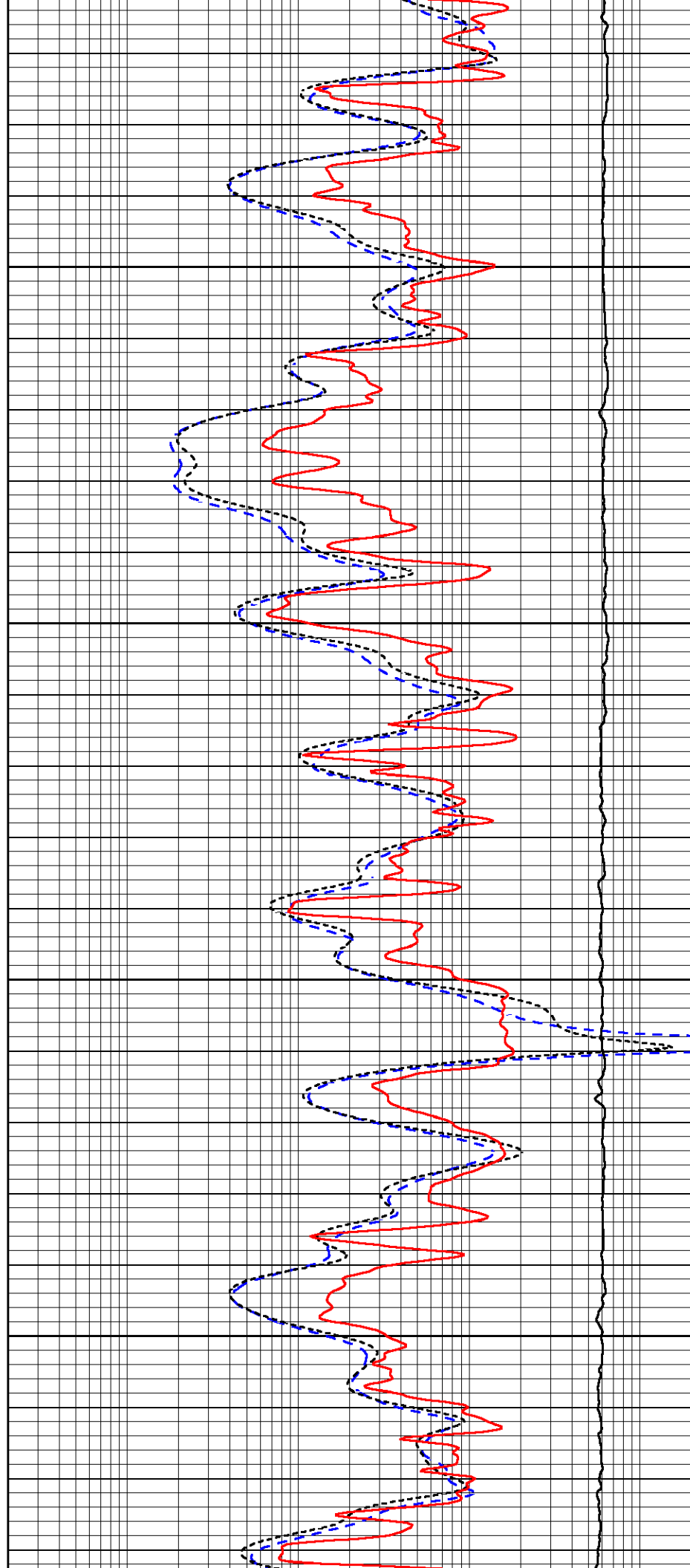


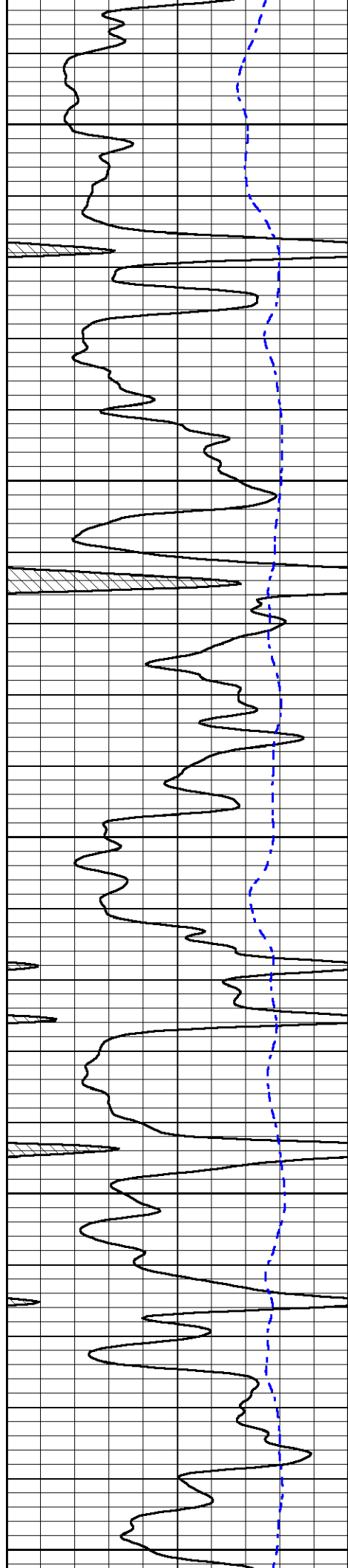
4250

4300

4350

4400





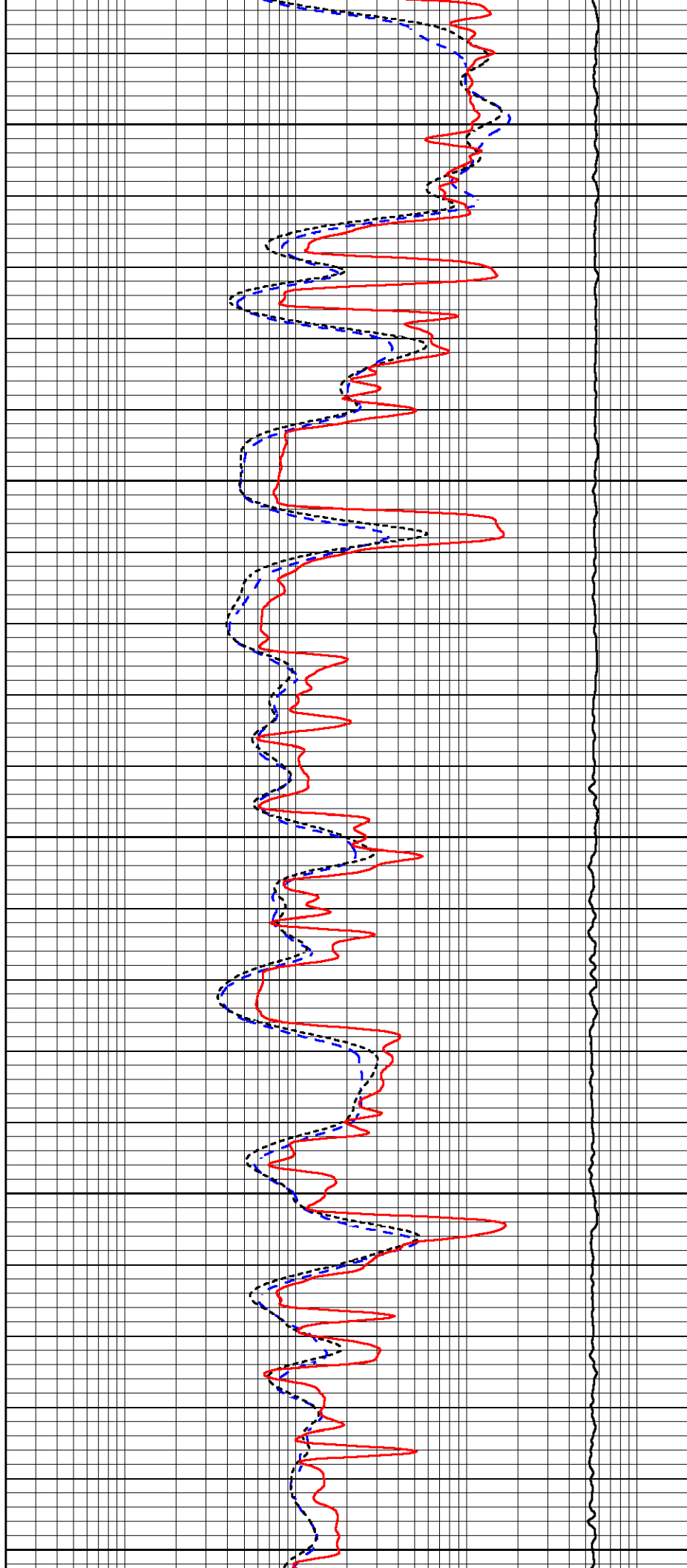
4450

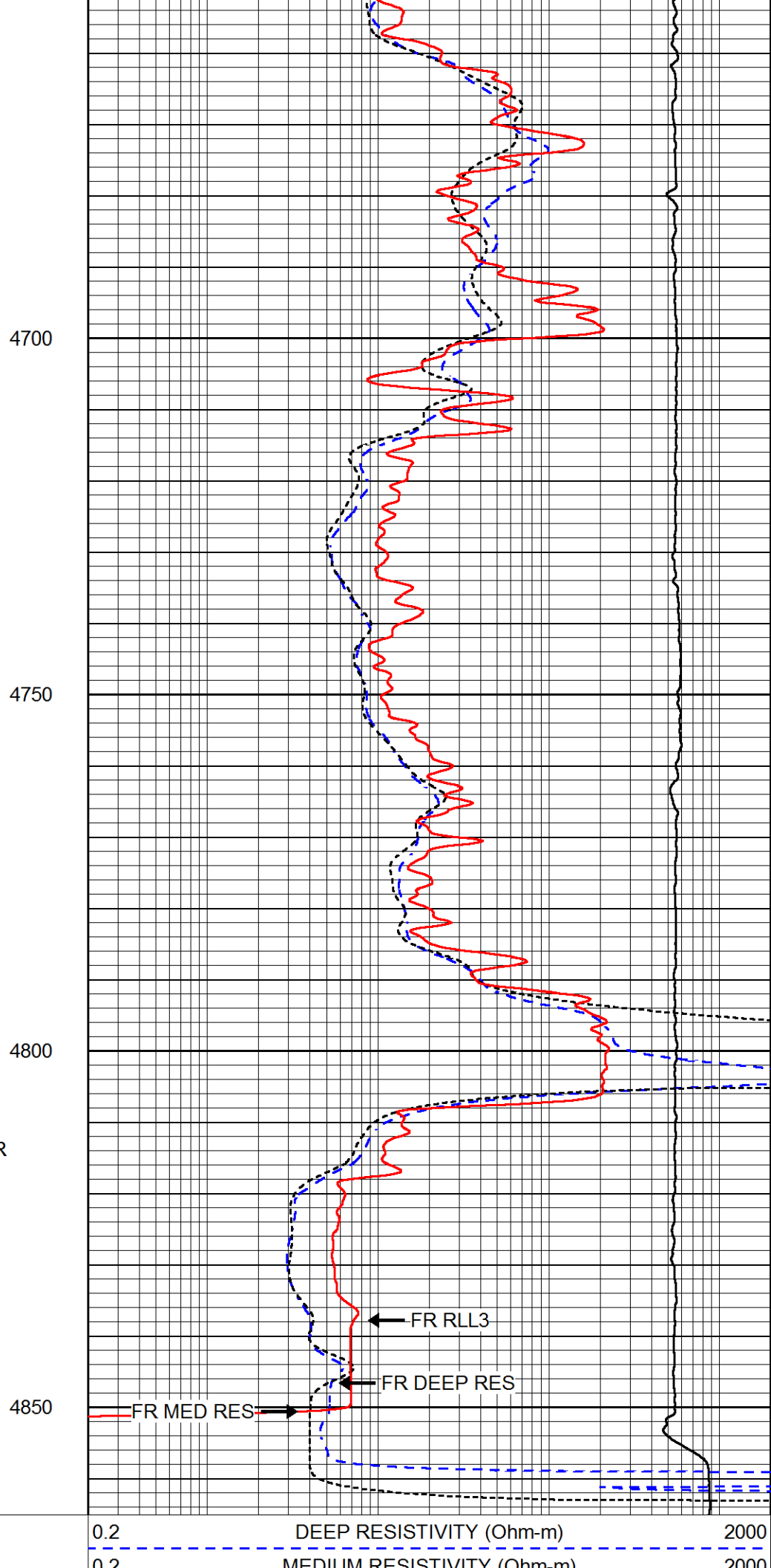
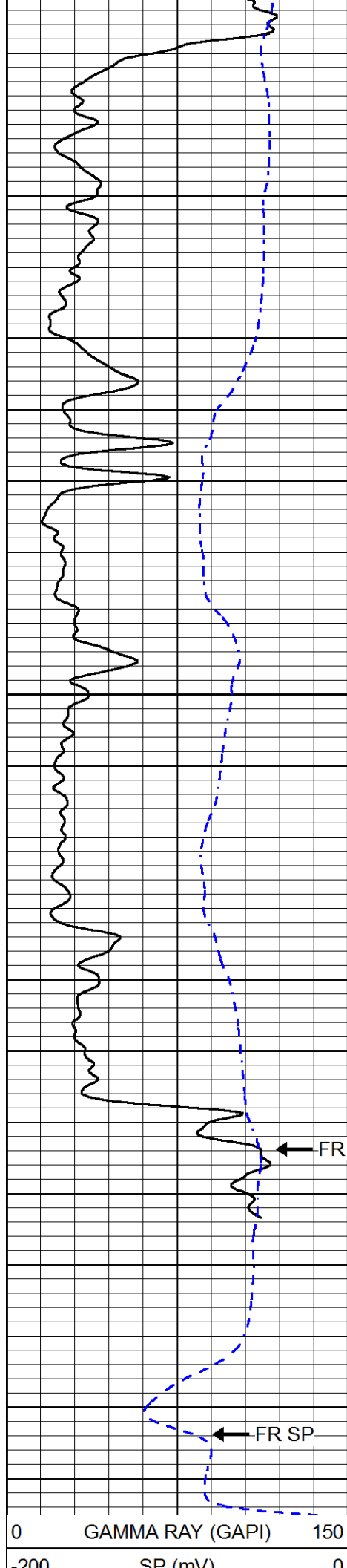
4500

4550

4600

4650





200	SP (mV)	0

0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	LINE TENSION (lb)	0



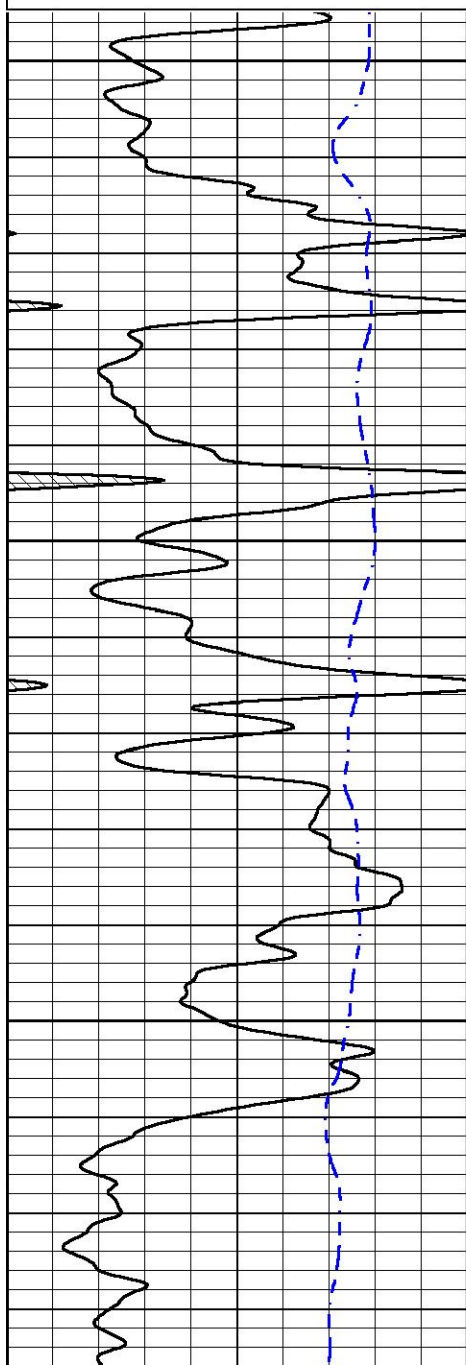
MIDWEST WIRELINE

REPEAT SECTION

Database File griffin_kay 1.db
Dataset Pathname stkml/pass2.1
Presentation Format _dil
Dataset Creation Tue Feb 23 17:28:53 2021
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

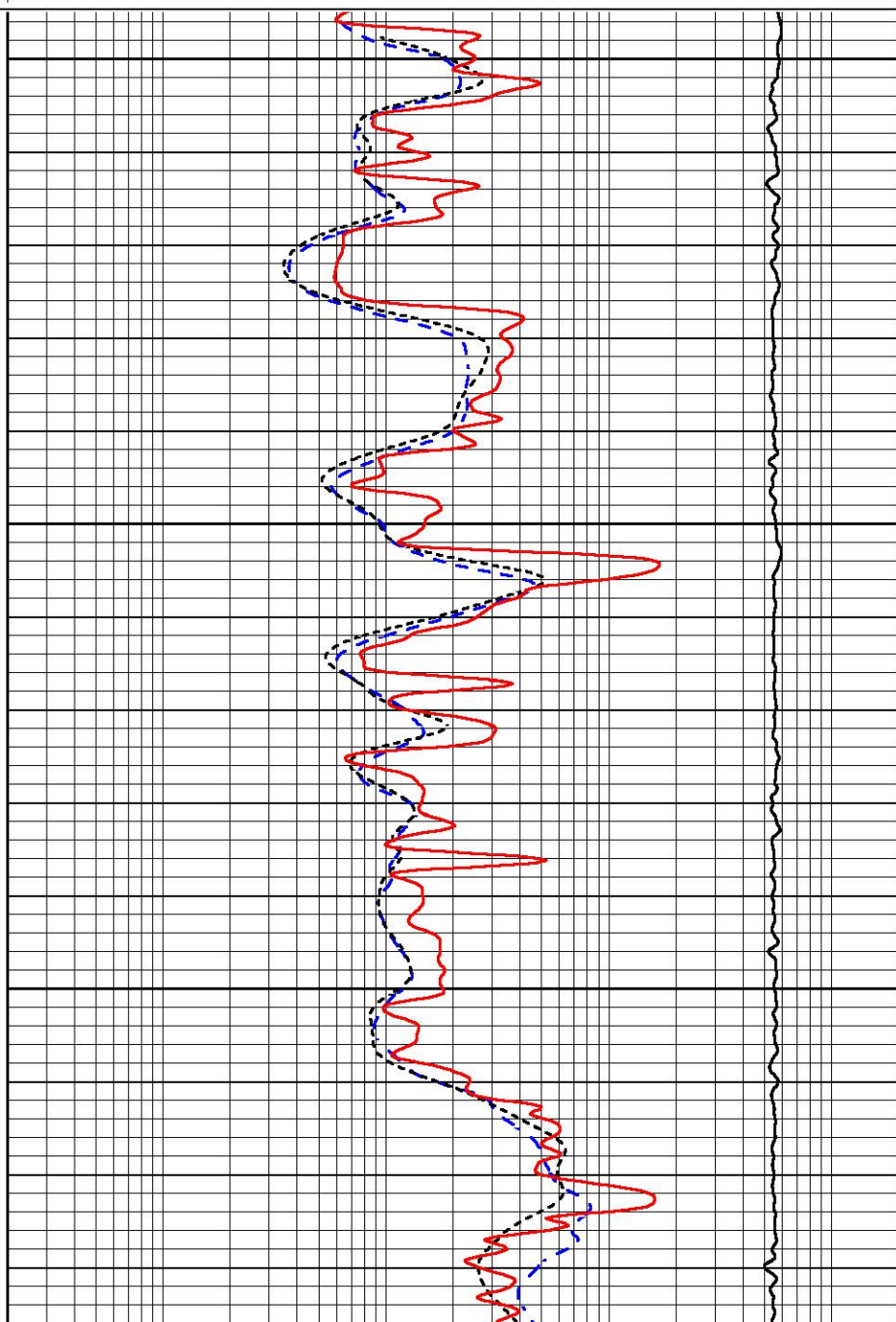
0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	LINE TENSION (lb)	0

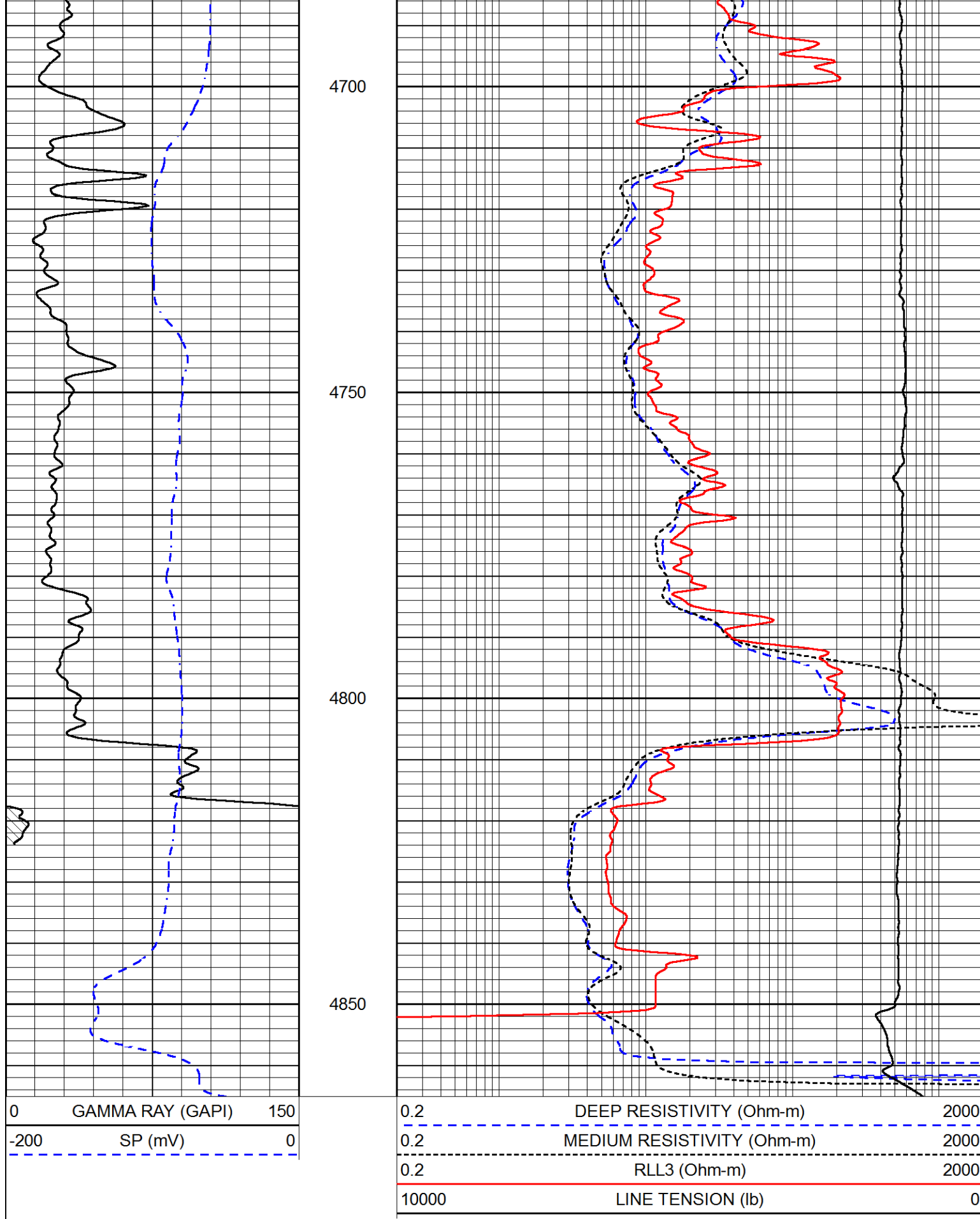


4550

4600

4650





Calibration Report

Database File griffin_kay 1.db
Dataset Pathname stkml/pass3.4
Dataset Creation Tue Feb 23 17:21:24 2021

Dual Induction Calibration Report							
Serial-Model: Calibration Performed:				952-828-PSI HIGH TEMP Thu Feb 04 06:43:01 2021			
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-35.500
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-34.000

Microlog Calibration Report							
Serial-Model: Performed:				PSI-01-PSIML Sun Jan 17 01:42:11 2021			
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	16000.0000	-1.9000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5000

Compensated Density Calibration Report							
Serial-Model: Source / Verifier: Master Calibration Performed:				817-947-M&W 16955B / 2ci Sun Sep 20 22:09:47 2020			

Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		6127.15		5922.31	cps
Aluminum	2.675	g/cc		1141.85		3762.09	cps
Spine Angle = 74.89				Density/Spine Ratio = 0.529			
	Size			Reading			
Small Ring	4.50	in		1.02			
Large Ring	14.50	in		1.23			

Compensated Neutron Calibration Report							
Serial Number: Tool Model: Calibration Performed:				207-MW M&W WED FEB 13 10:30:30 2019			
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: Tool Model: Calibration Performed:				233-M&W M&W Sun Sep 20 09:10:04 2020			

Calibration Performed:	Sun Sep 20 22:10:24 2020	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps