



MIDWEST WIRELINE

MICRORESISTIVITY

CompanyGriffin Management LLC		Company Griffin Management LLC	
Well	Gary #1	Well	Gary #1
Field	Turkey Creek East	Field	Turkey Creek East
County	Barber	County	Barber
State	Kansas	State	Kansas
Location: API #: 15-007-24472-00-00		Other Services	
Permanent Datum NW NW SW NW Log Measured From 1610 FNL & 280 FWL Drilling Measured From Kelly Bushing		CNL/CDL DIL	
SEC 15 TWP 30S RGE 15W		Elevation	
Ground Level 1919		K.B. 1924	
Elevation 1919		D.F. 1919	
G.L. 1919			
Date	6/5/2023		
Run Number	One		
Depth Driller	4740		
Depth Logger	4739		
Bottom Logged Interval	4738		
Top Log Interval	2800		
Casing Driller	8.625 @ 258		
Casing Logger	259		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7000		
Density / Viscosity	9.4 58		
pH / Fluid Loss	10.5 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.75 @ 76		
Rmf @ Meas. Temp	0.56 @ 76		
Rmc @ Meas. Temp	1.01 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.46 @ 123		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	123		
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 Blktp and SW 110, 1 E, S 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

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_gary #1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	4	-5	570	80	Off	4739

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



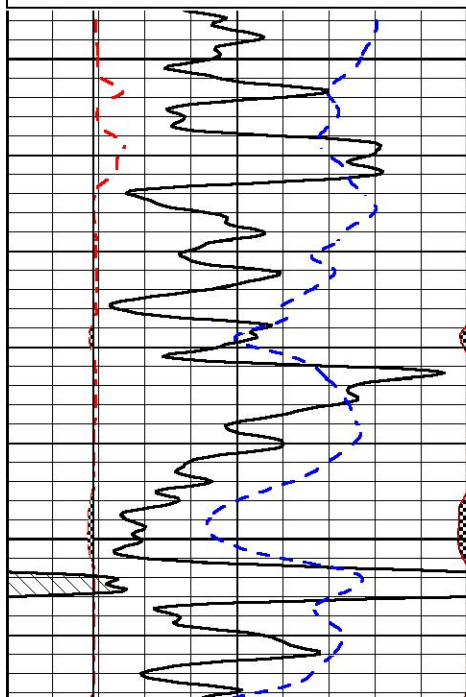
DETAIL SECTION

MAIN PASS

Database File griffin_gary #1.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Mon Jun 05 16:08:44 2023
Charted by Depth in Feet scaled 1:240

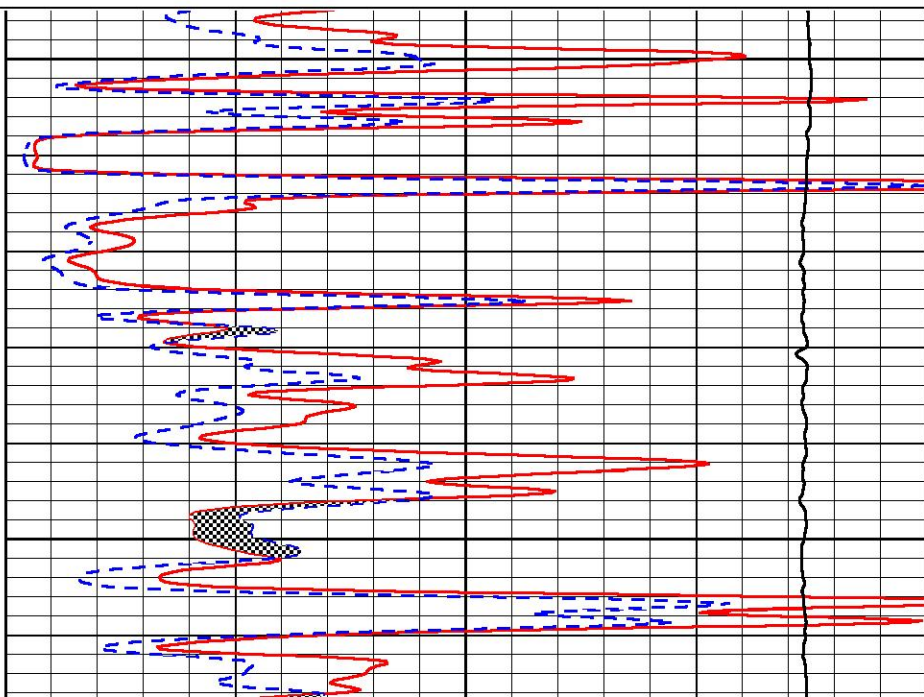
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

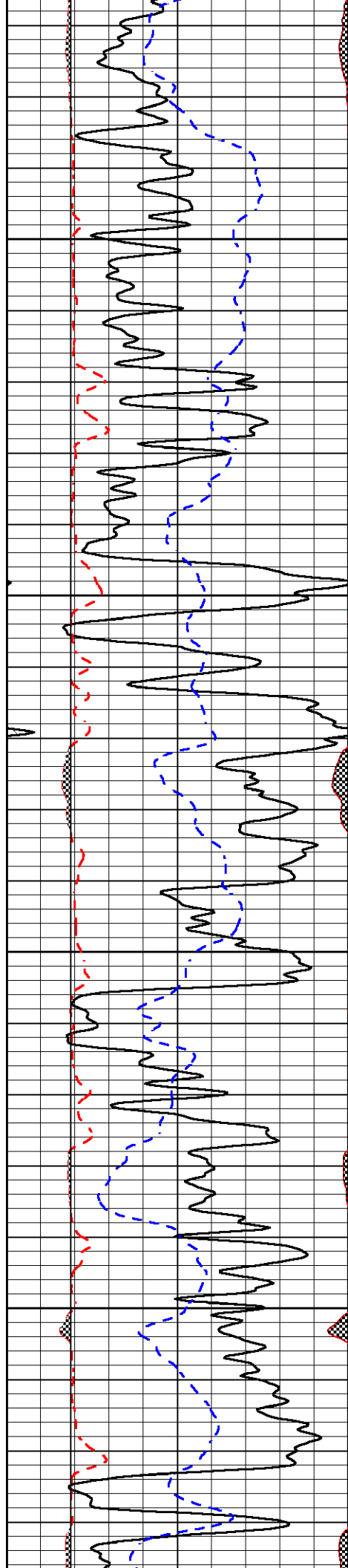
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2800

2850



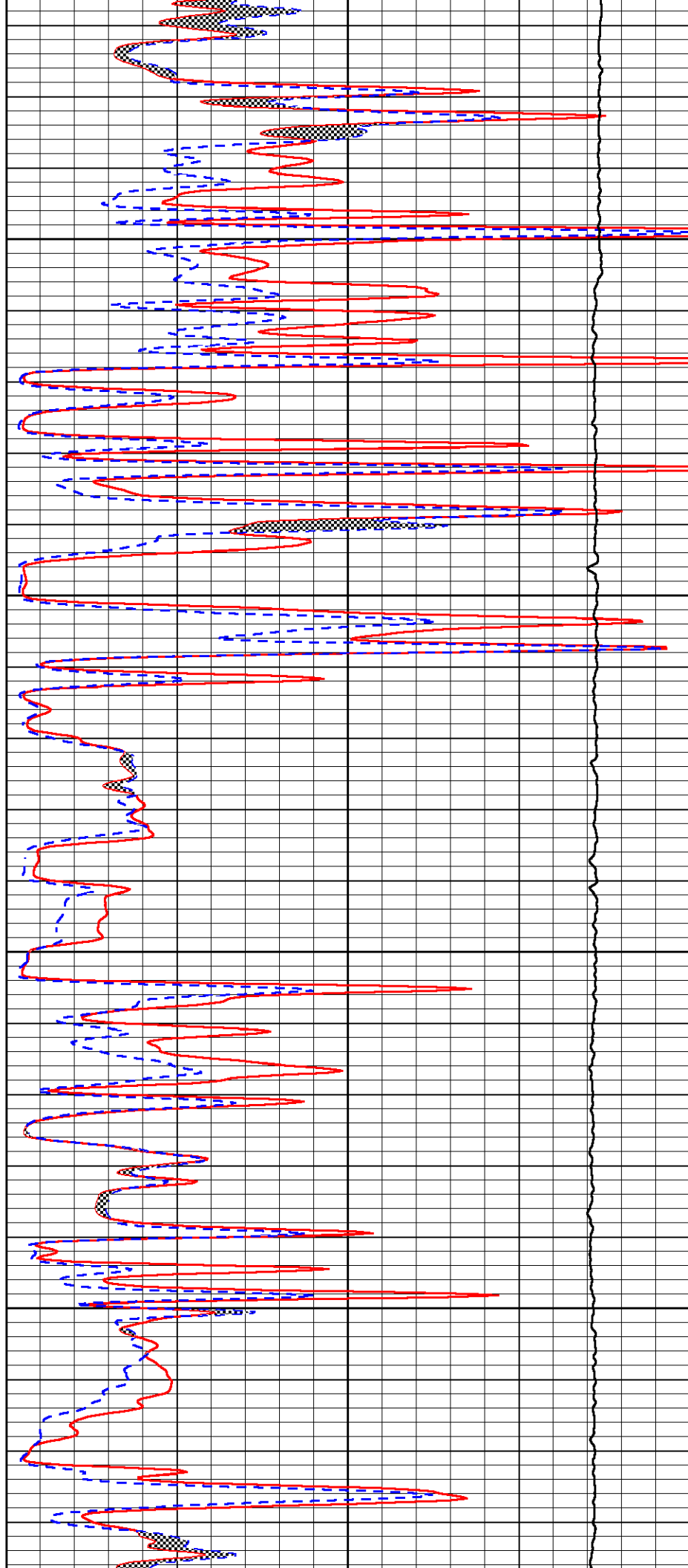


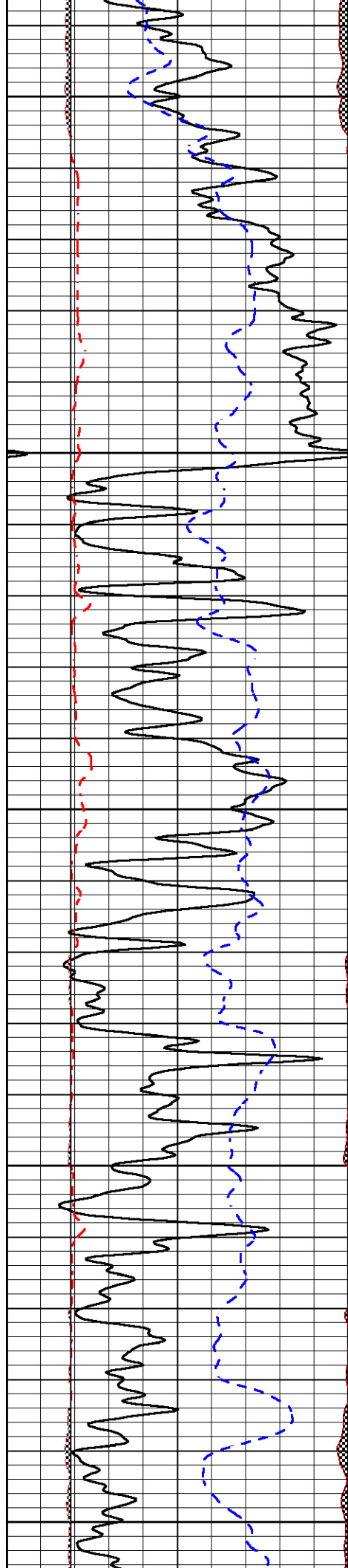
2900

2950

3000

3050





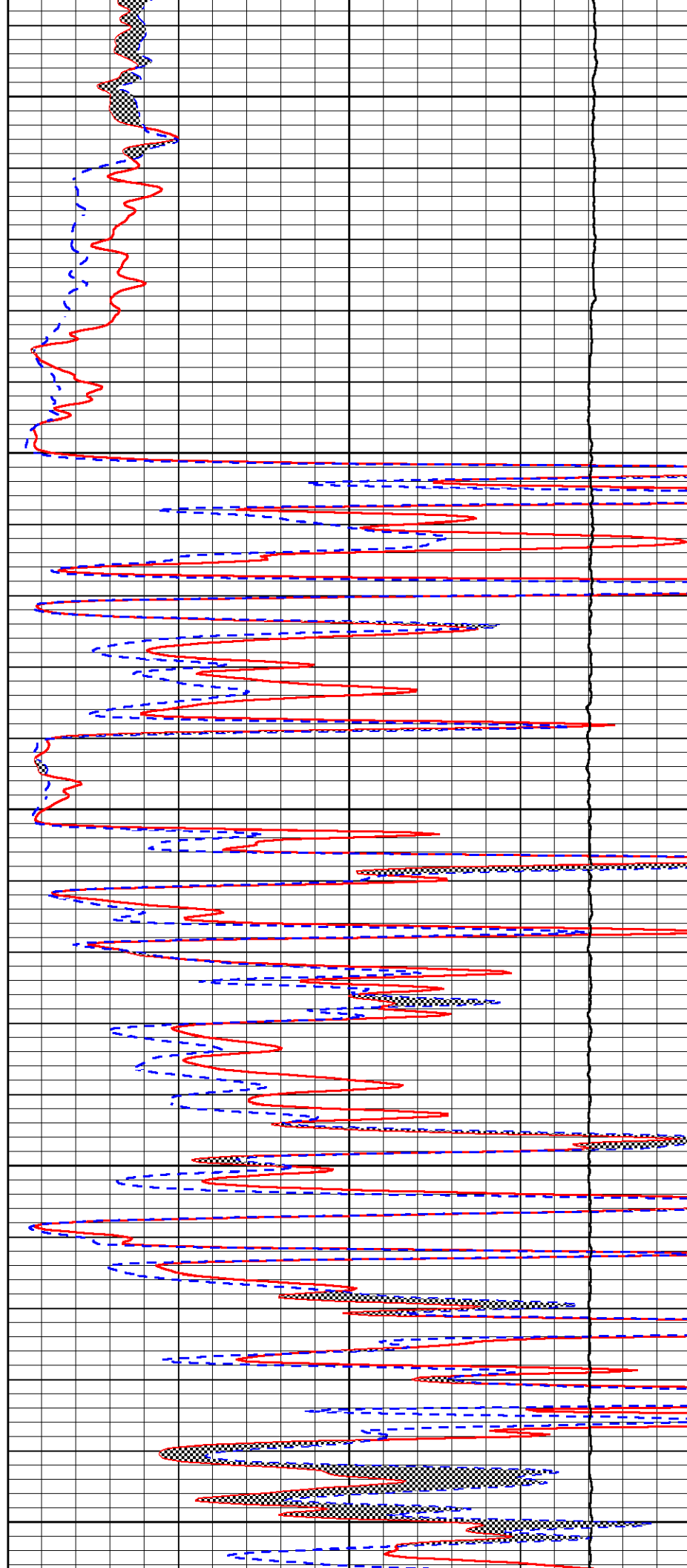
3100

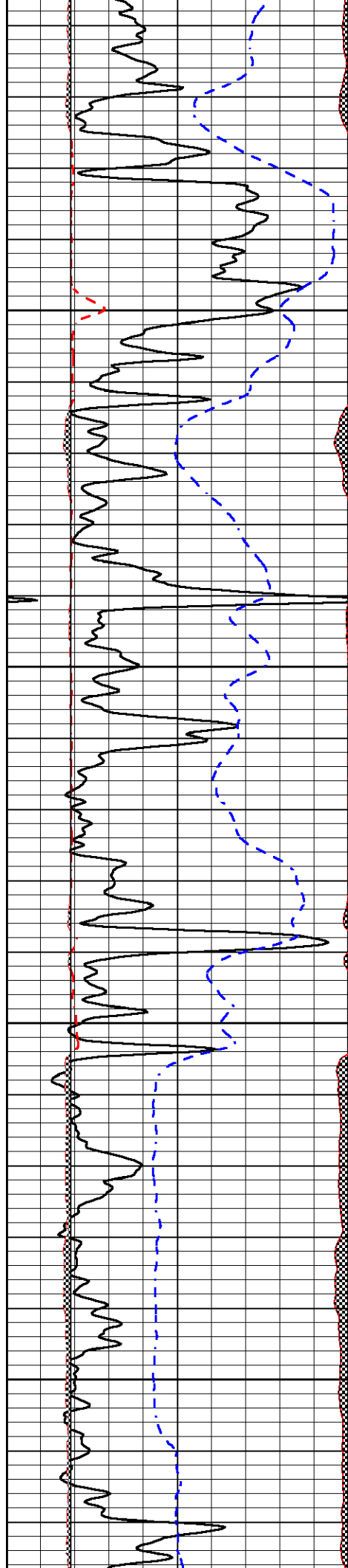
3150

3200

3250

3300



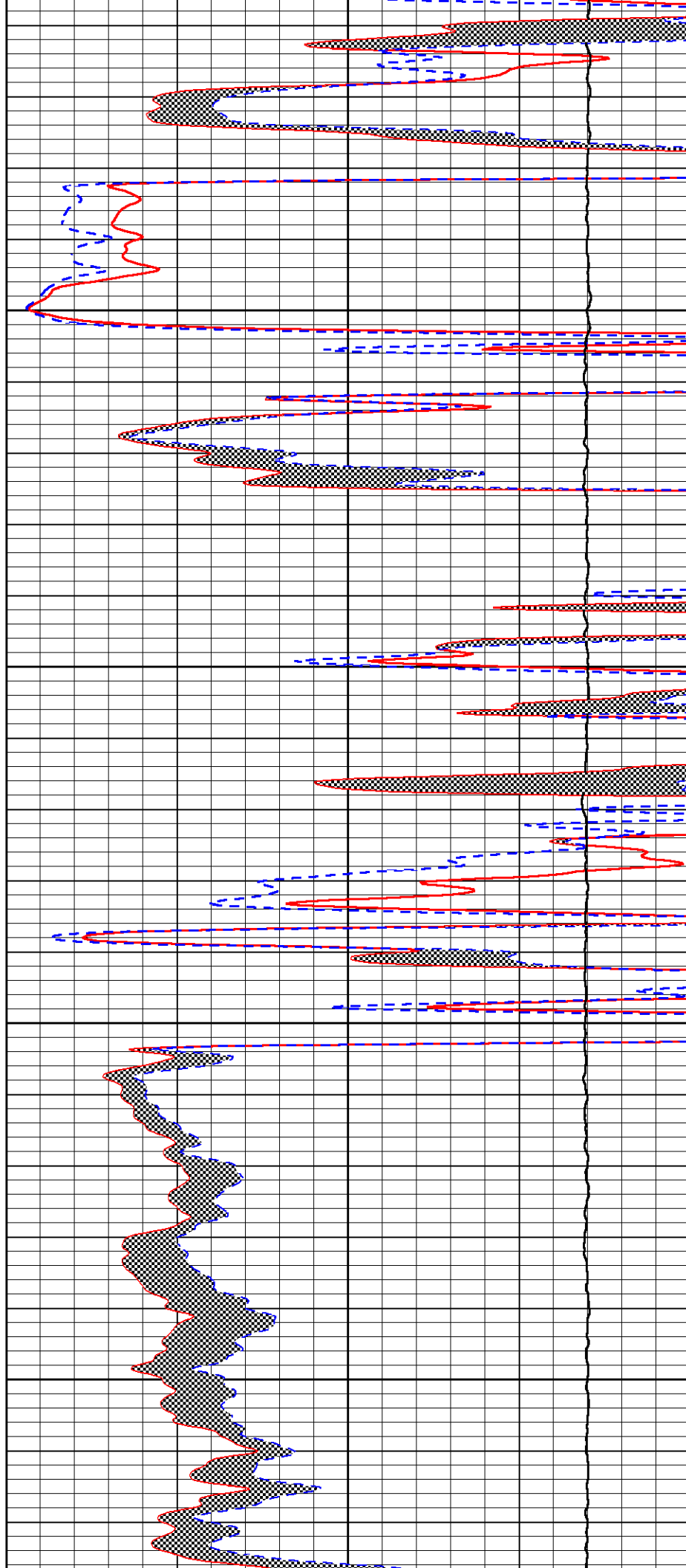


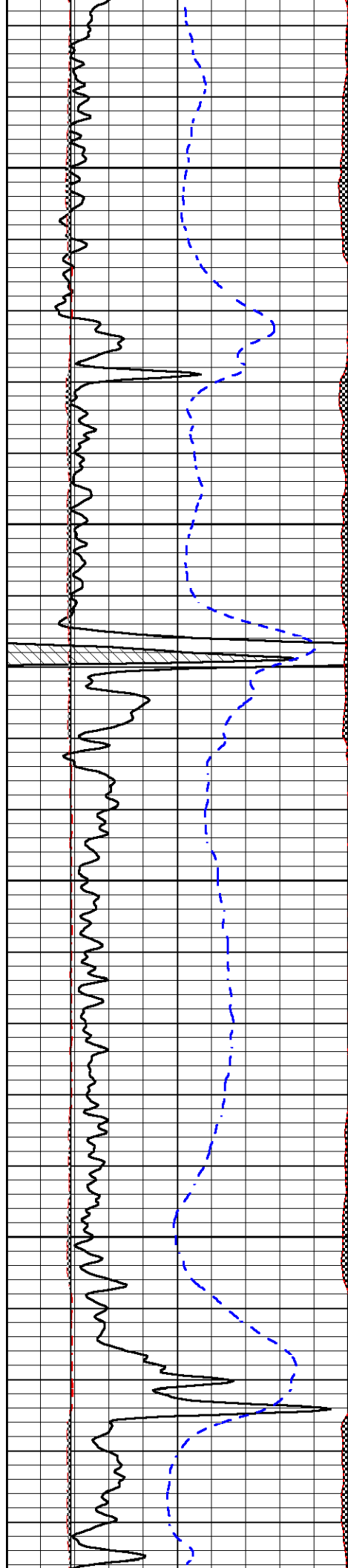
3350

3400

3450

3500



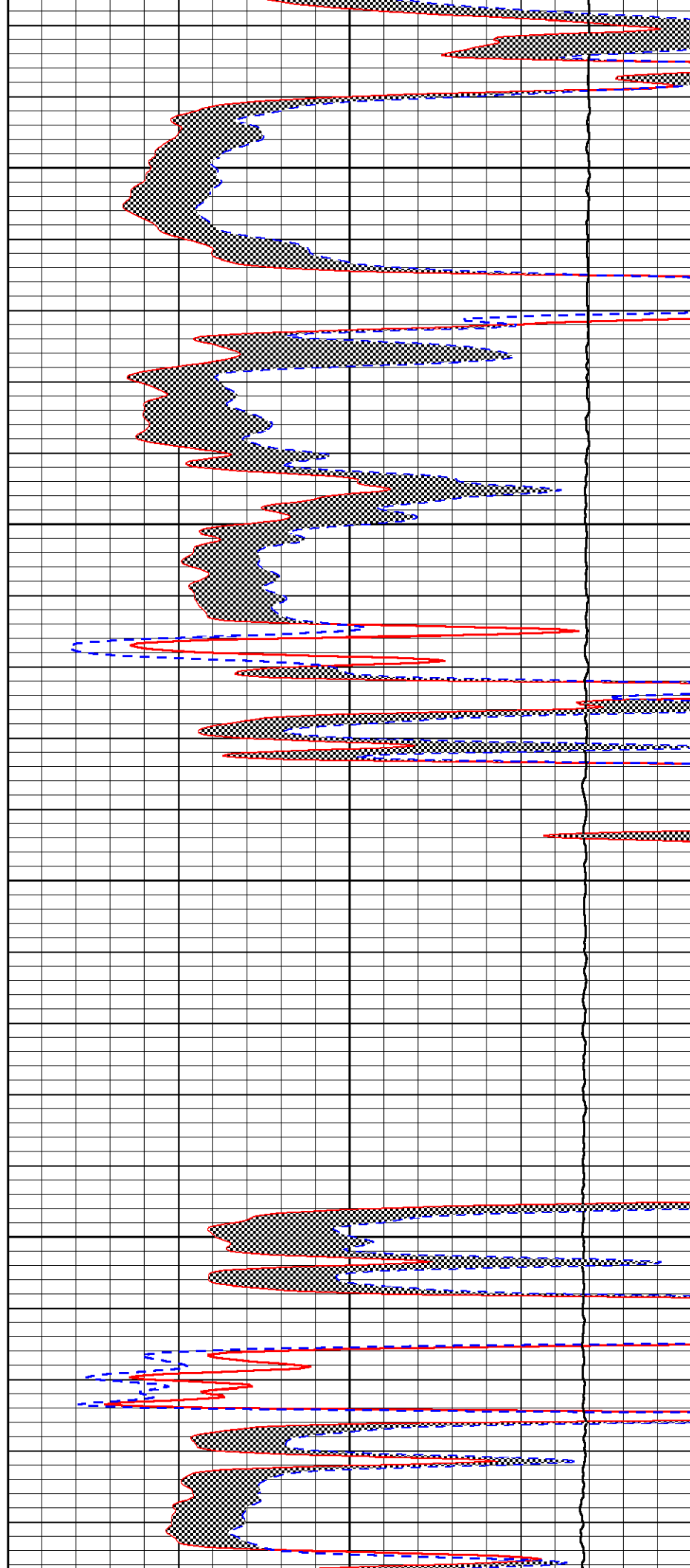


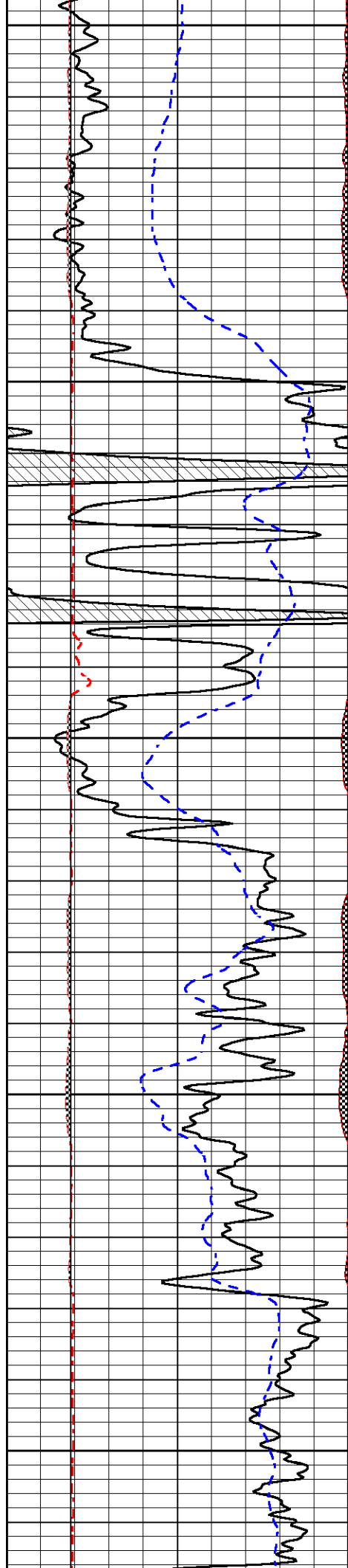
3550

3600

3650

3700





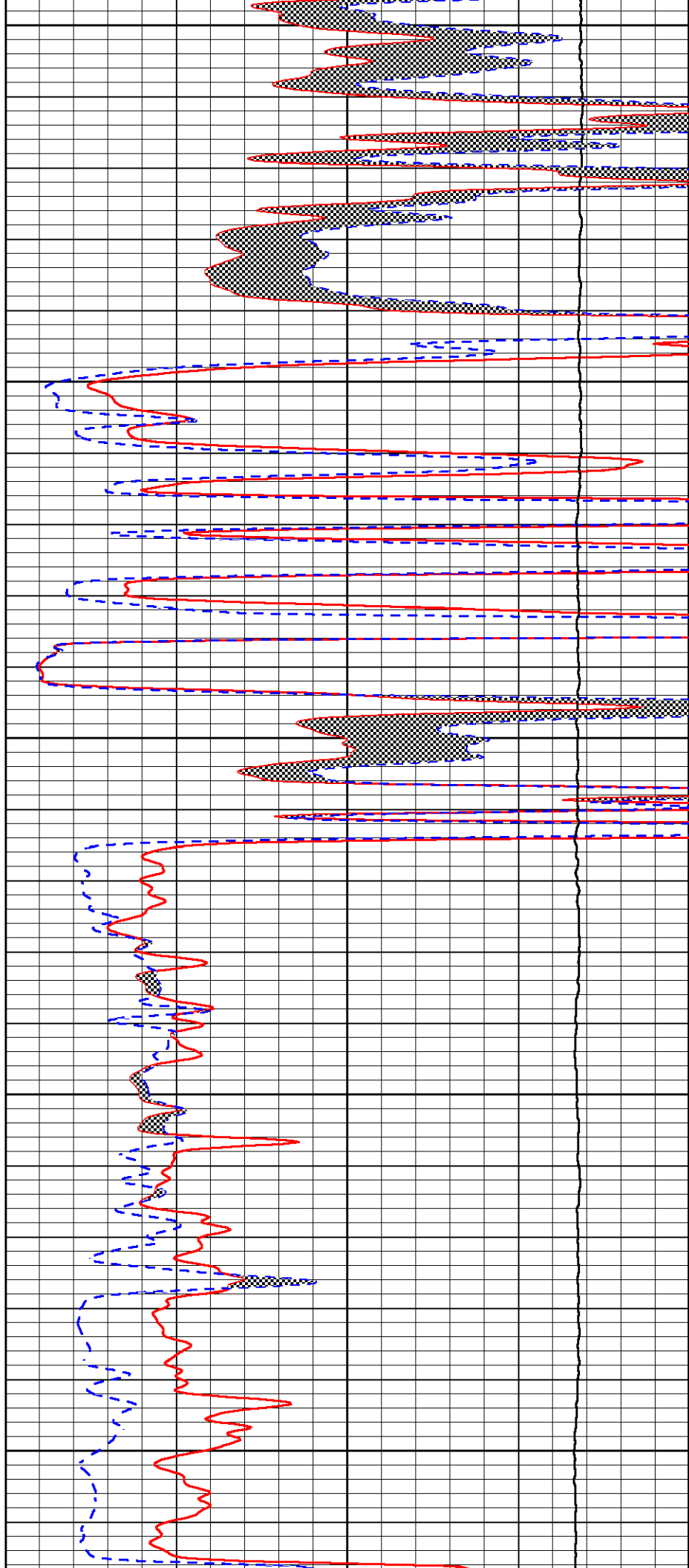
3750

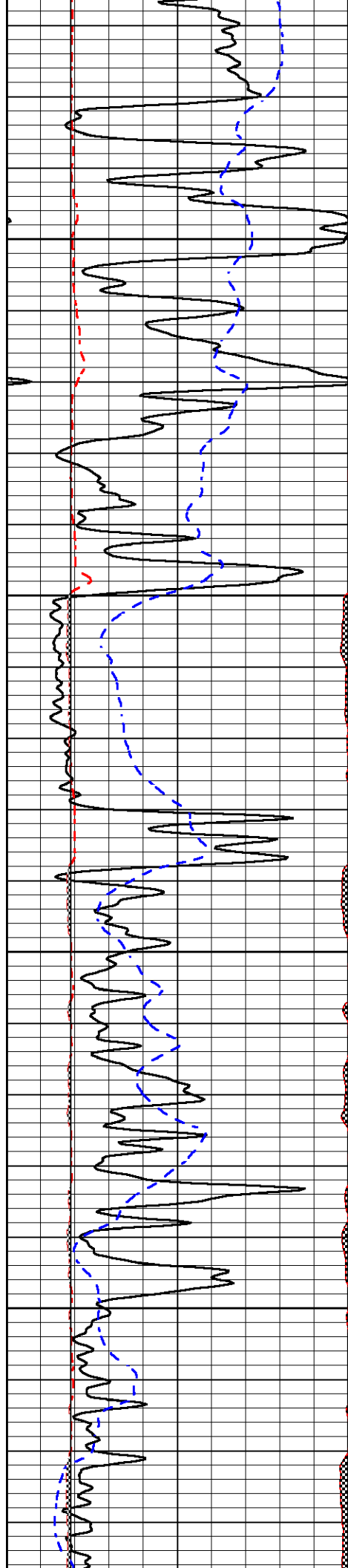
3800

3850

3900

3950



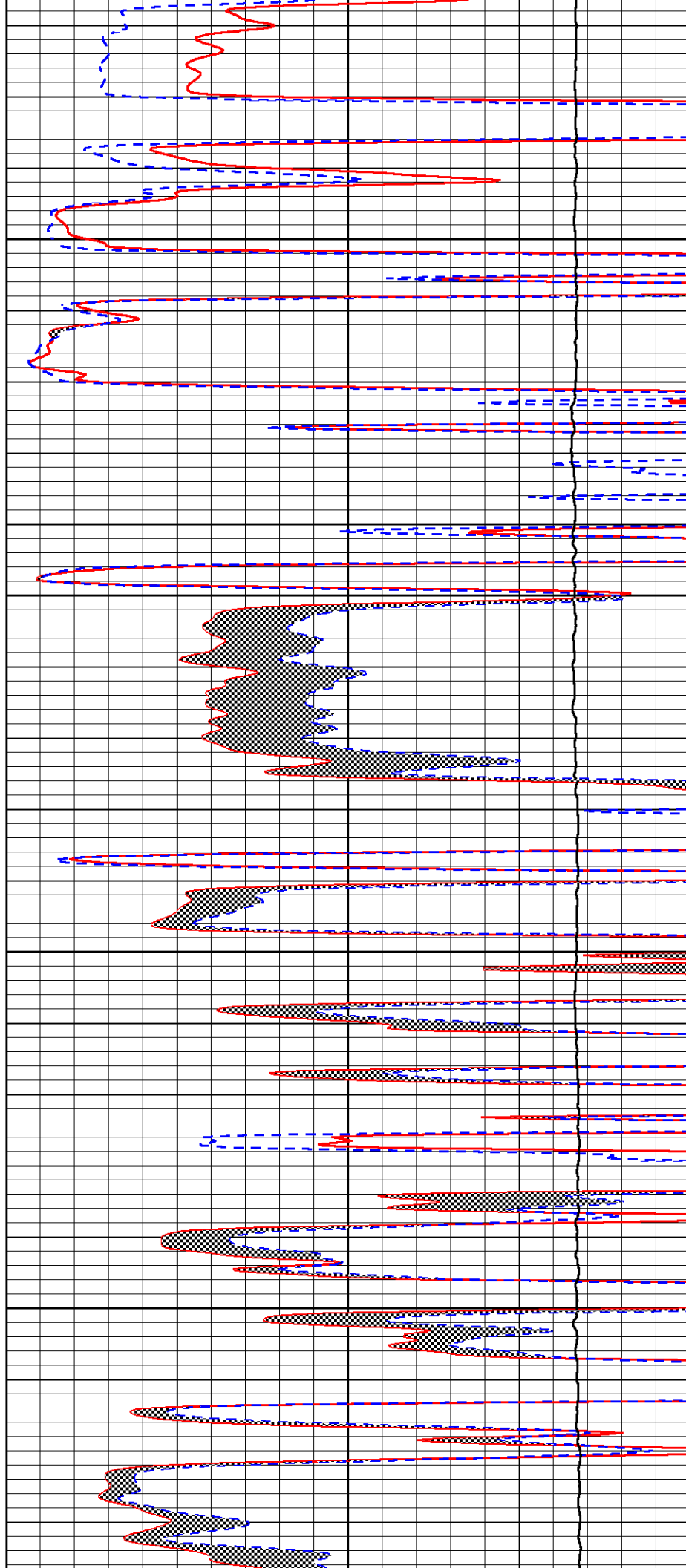


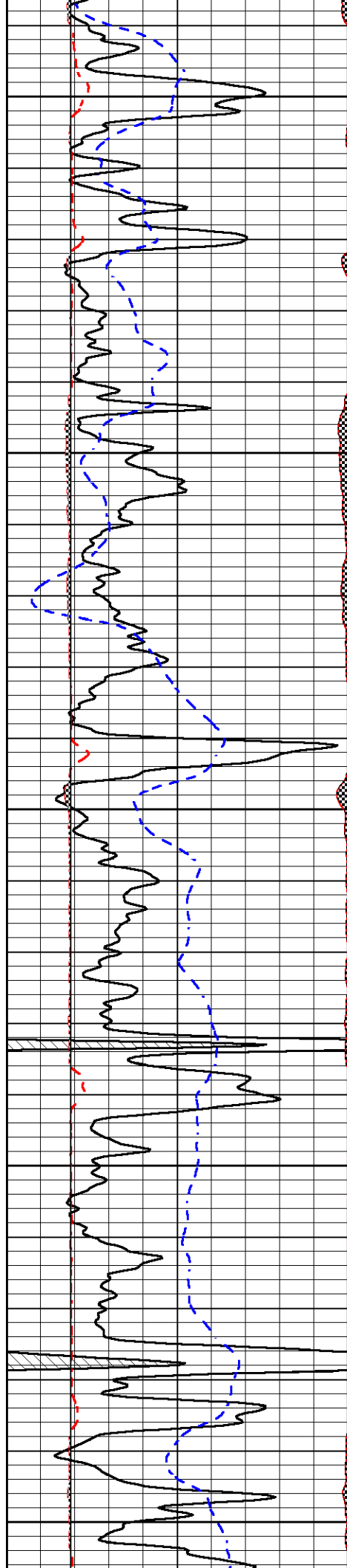
4000

4050

4100

4150





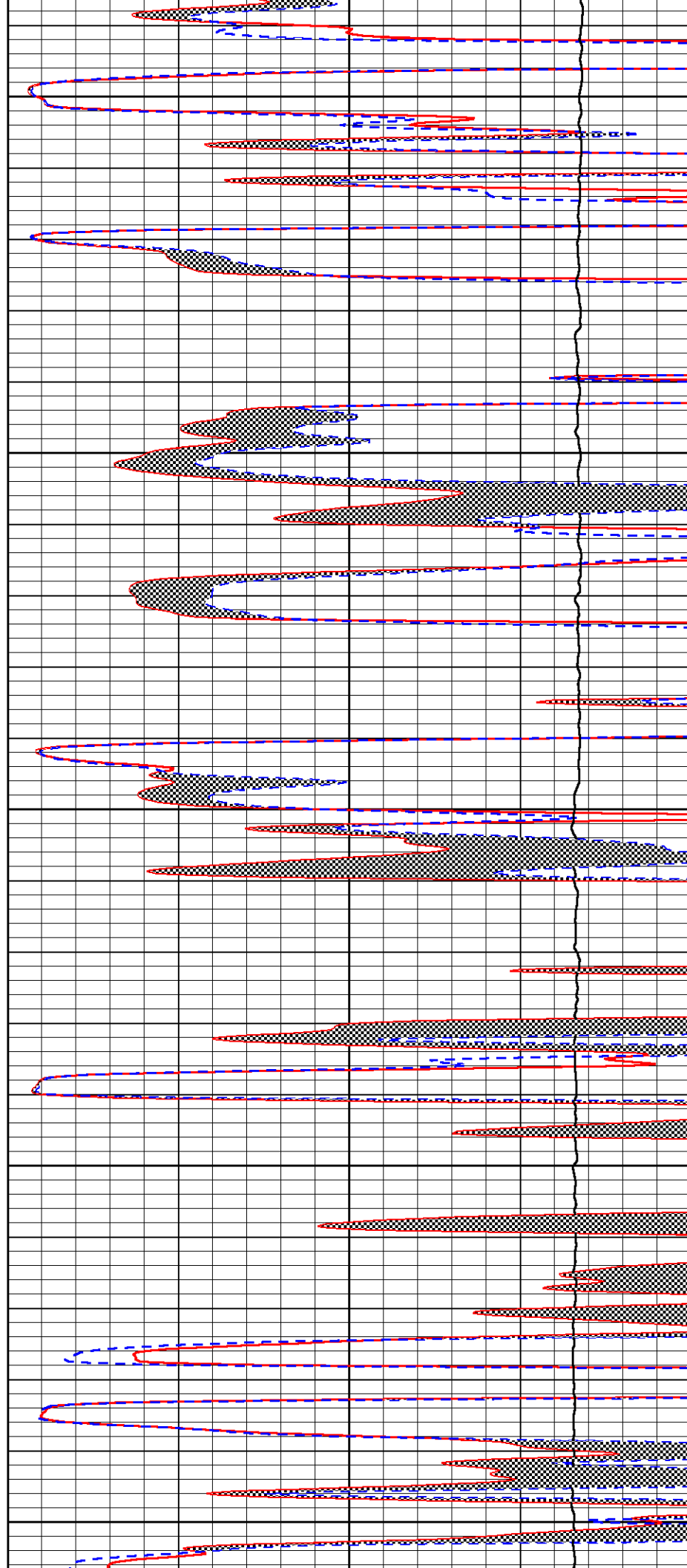
4200

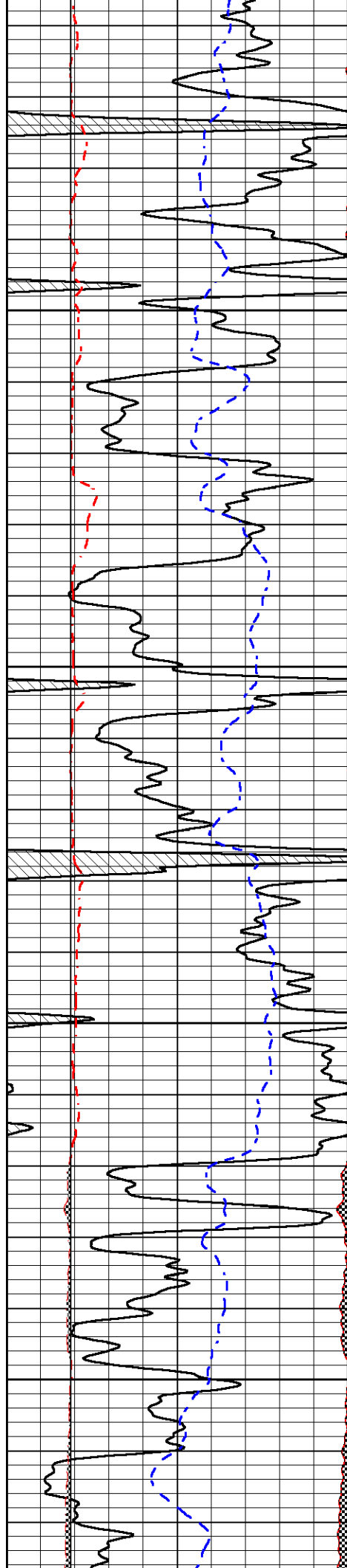
4250

4300

4350

4400



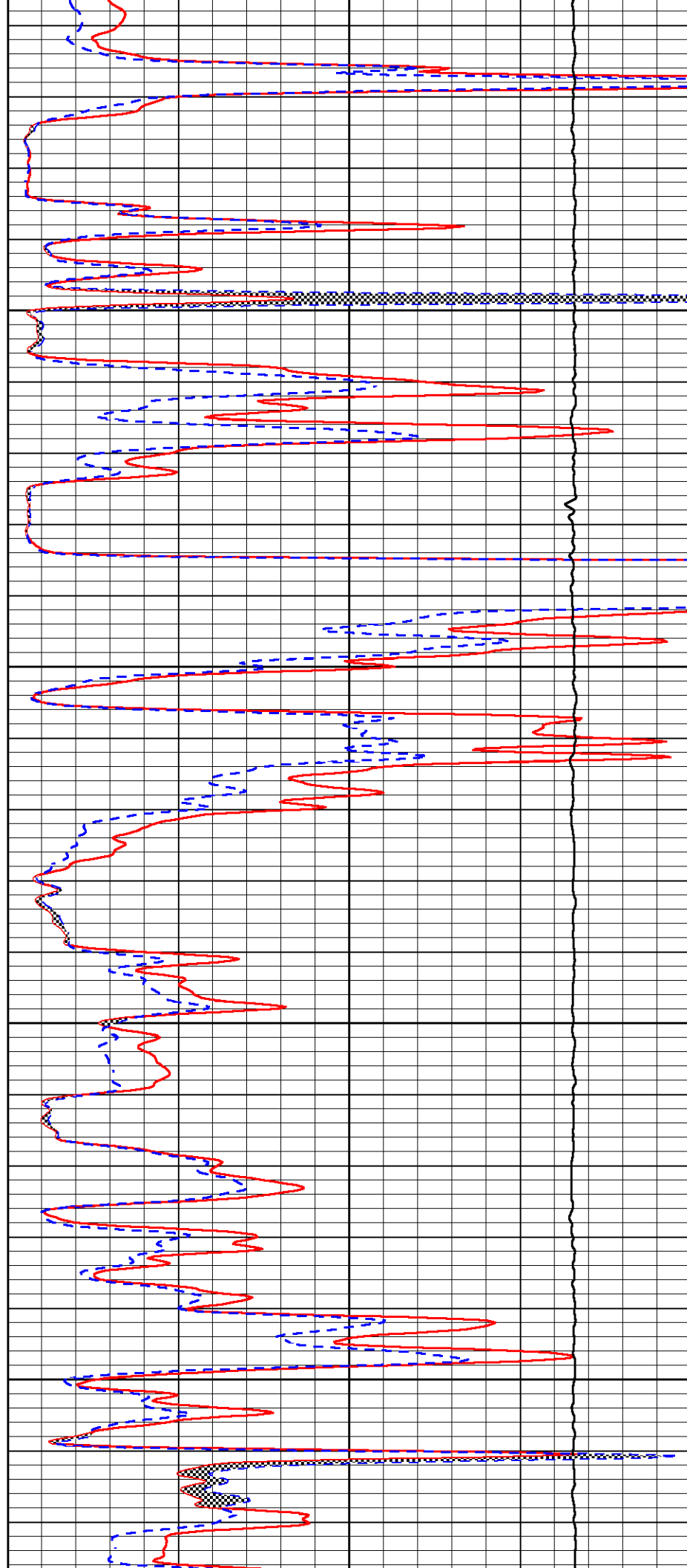


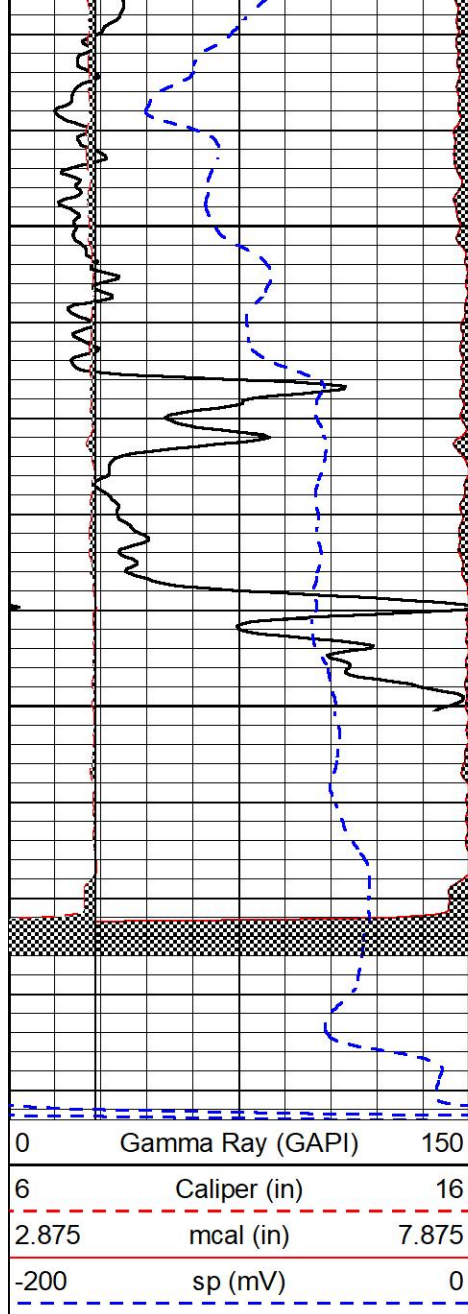
4450

4500

4550

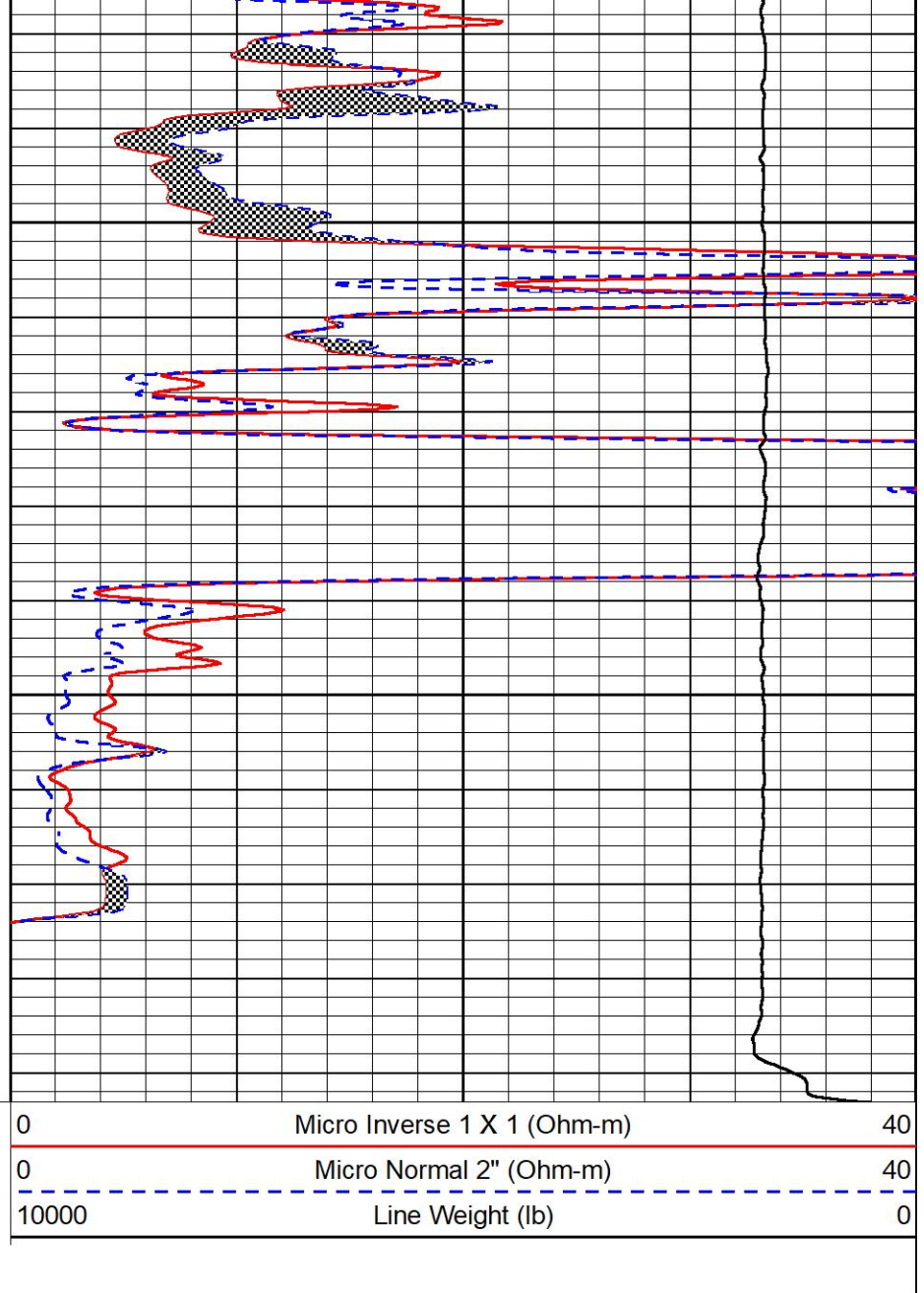
4600





4650

4700

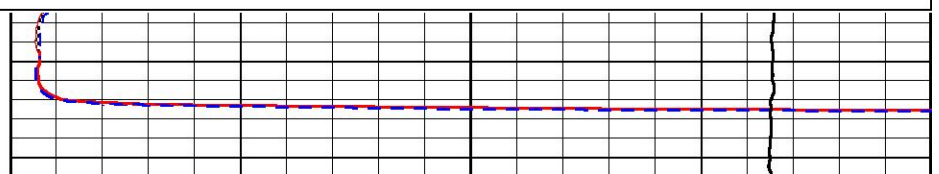
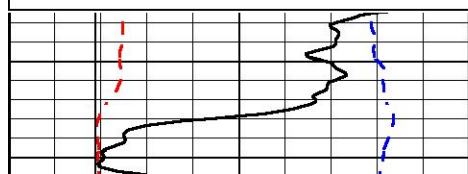
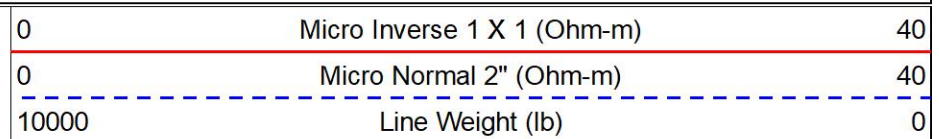
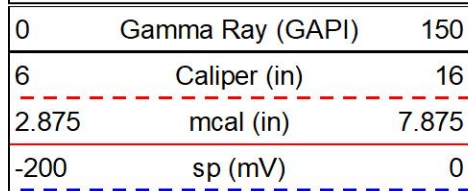


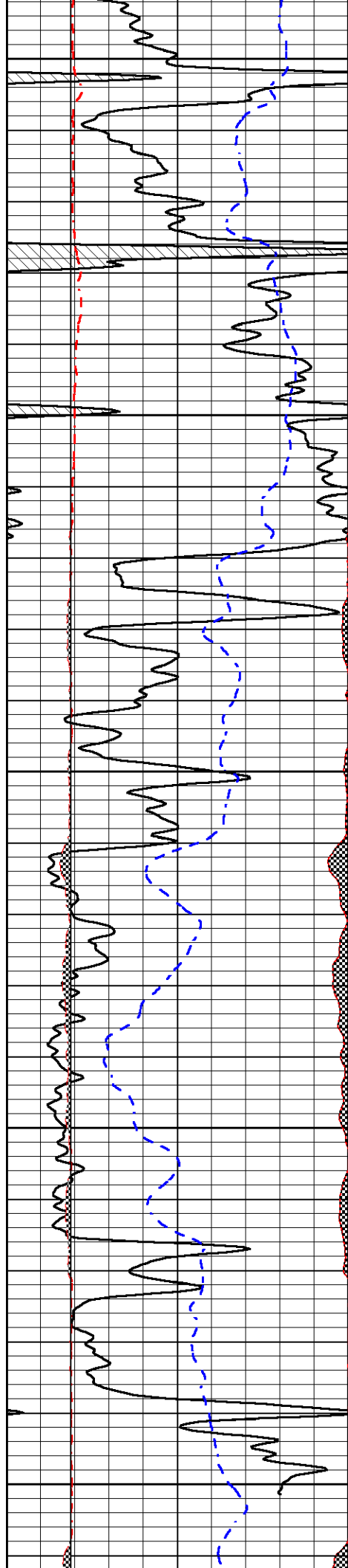
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File griffin_gary #1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _micro
 Dataset Creation Mon Jun 05 15:21:01 2023
 Charted by Depth in Feet scaled 1:240





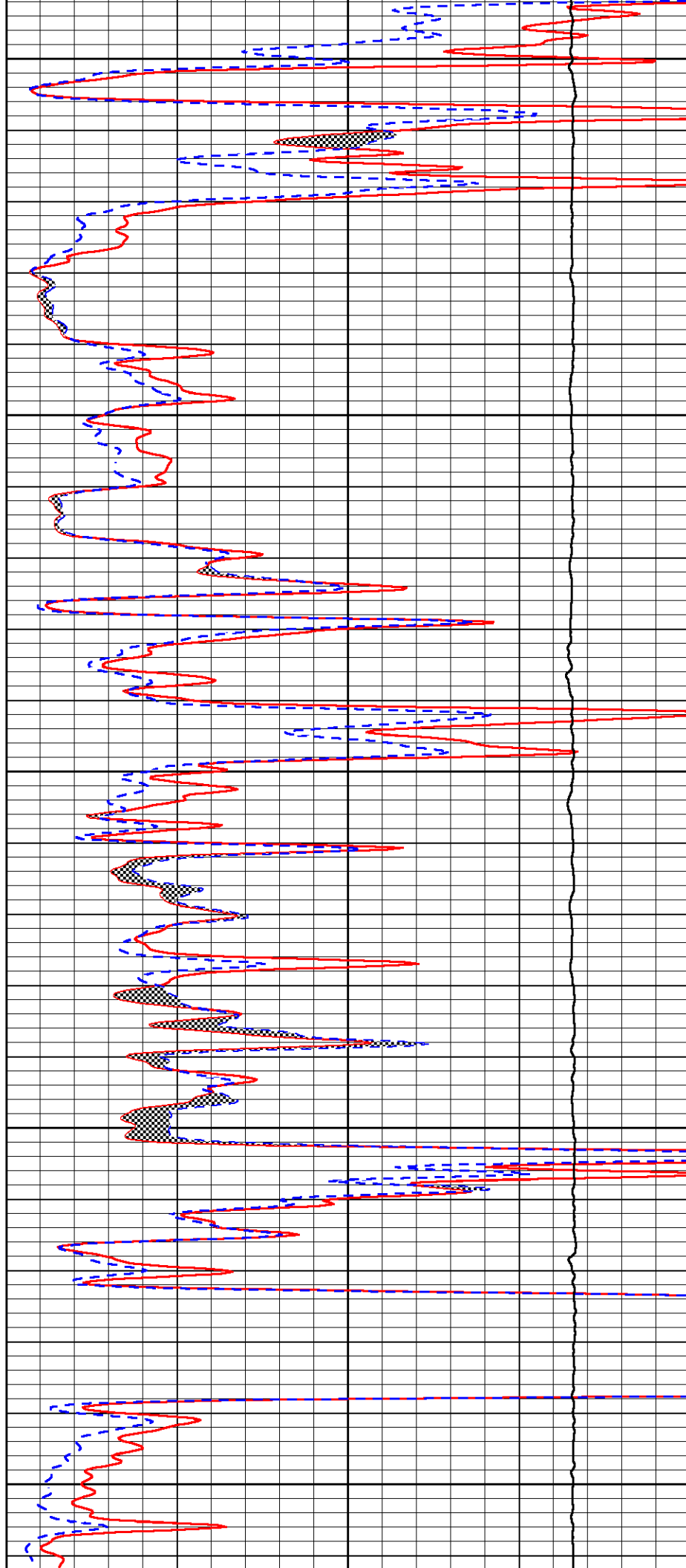
4500

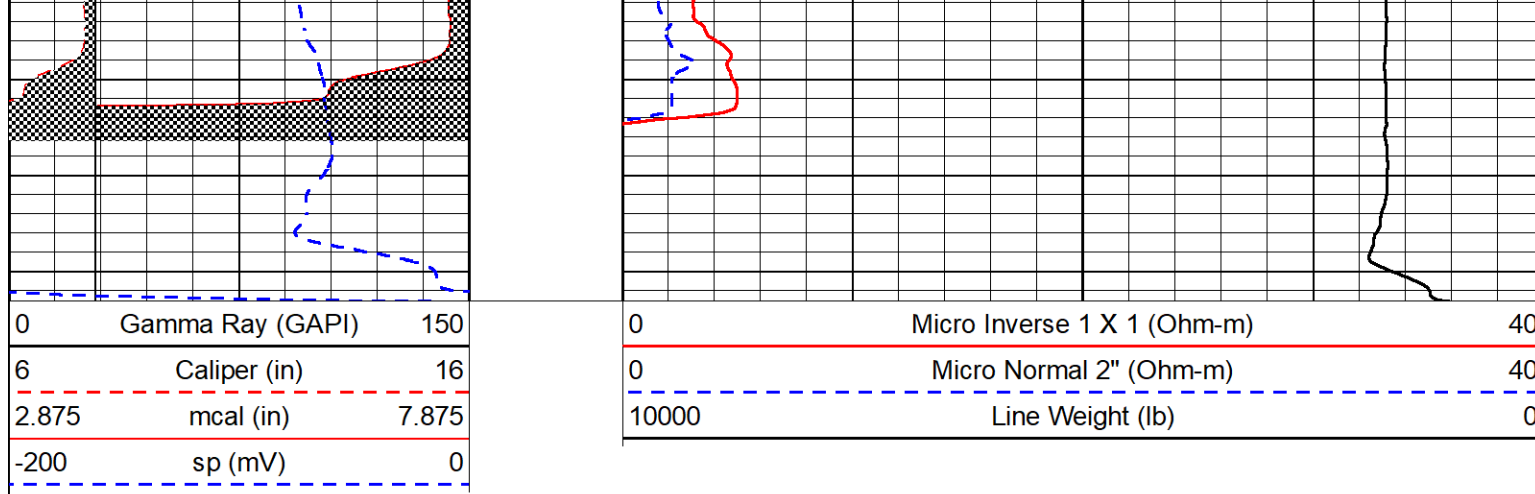
4550

4600

4650

4700





Calibration Report	
Database File	griffin_gary #1.db
Dataset Pathname	StkMI/pass3.1
Dataset Creation	Mon Jun 05 16:08:44 2023

Dual Induction Calibration Report

Serial-Model:	507-M&W
Surface Cal Performed:	

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	67.445	566.296	0.000	255.800	mmho/m	0.450	-35.000
Medium	192.026	839.715	0.000	255.800	mmho/m	0.420	-85.000

Microlog Calibration Report

Serial-Model:	401-PSIML
Performed:	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	15000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-0.7500
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.9500

Compensated Density Calibration Report

Serial-Model:	307-11-M&W
Source / Verifier:	20762B / 2ci
Master Calibration Performed:	Thu Jun 1 02:14:11 2023
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration						
	Density		Far Detector	Near Detector		
Magnesium	1.755	g/cc	3689.70	4749.82	cps	
Aluminum	2.570	g/cc	822.19	3221.38	cps	
Spine Angle = 75.50			Density/Spine Ratio = 0.526			
Size			Reading			

Small Ring	6.00	in	1.16
Large Ring	18.00	in	1.01
Before Survey Verification			
	Target		Measured
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc
After Survey Verification			
	Target		Measured
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc
Compensated Neutron Calibration Report			
	Serial Number: Tool Model:		207-MW M&W
CALIBRATION			
	Detector	Readings	Target
	Short Space	6240.00 cps	1000.00 cps
	Long Space	460.00 cps	1000.00 cps
			Normalization
			1.6025
			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:	105		
Tool Model:	M&W		
Performed:	Fri Dec 3 15:10:46 2021		
Calibrator Value:	500.0	GAPI	
Background Reading:	24.0	cps	
Calibrator Reading:	637.0	cps	

 MIDWEST WIRELINE	<table><tr><td>Company</td><td>Griffin Management LLC</td></tr><tr><td>Well</td><td>Gary #1</td></tr><tr><td>Field</td><td>Turkey Creek East</td></tr><tr><td>County</td><td>Barber</td></tr><tr><td>State</td><td>Kansas</td></tr></table>	Company	Griffin Management LLC	Well	Gary #1	Field	Turkey Creek East	County	Barber	State	Kansas
Company	Griffin Management LLC										
Well	Gary #1										
Field	Turkey Creek East										
County	Barber										
State	Kansas										