



MICRORESISTIVITY

MIDWEST WIRELINE

Company Griffin 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	
NW/NE SE SE 1130 FSL & 380 FEL SEC 9 TWP 30S RGE 15W		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	1955
Log Measured From	Kelly Bushing	K.B.	1960
Drilling Measured From	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	2800		
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		

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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, 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



MIDWEST WIRELINE

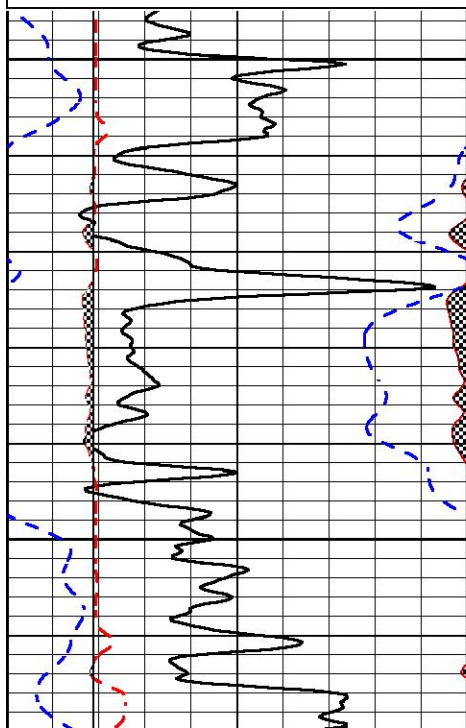
DETAIL SECTION

MAIN PASS

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

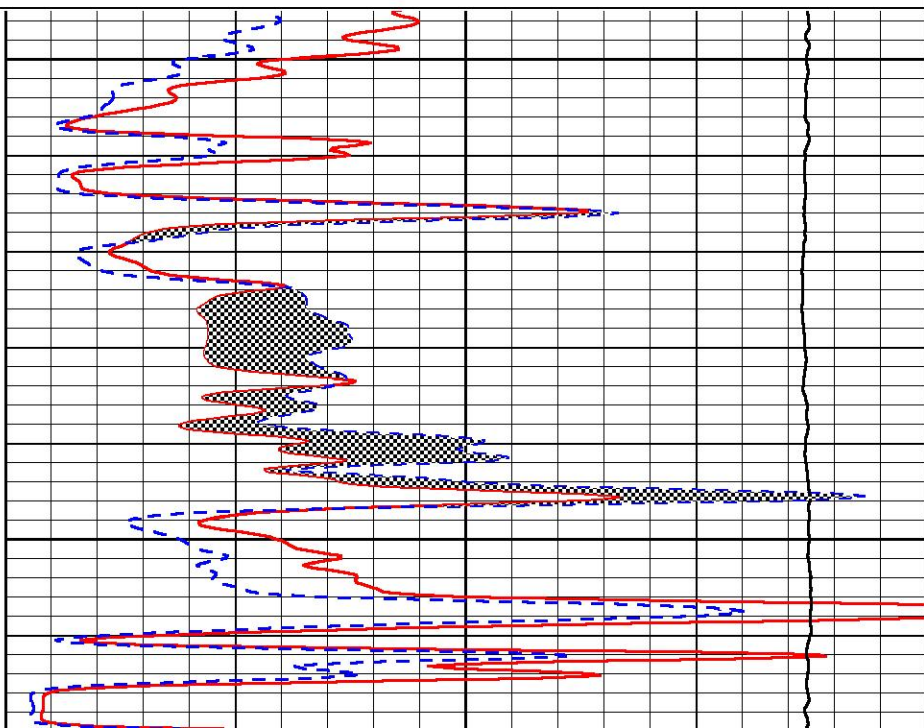
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

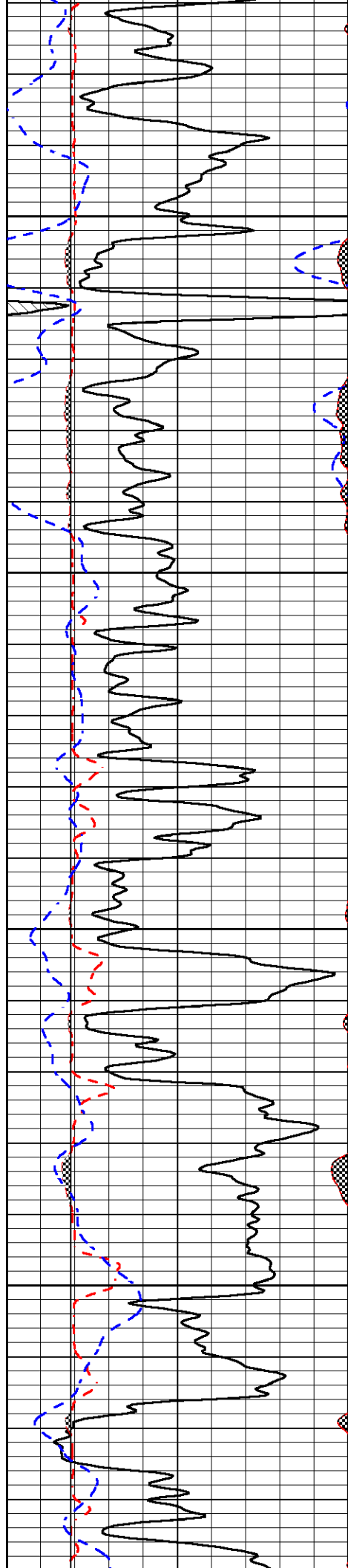
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2800

2850



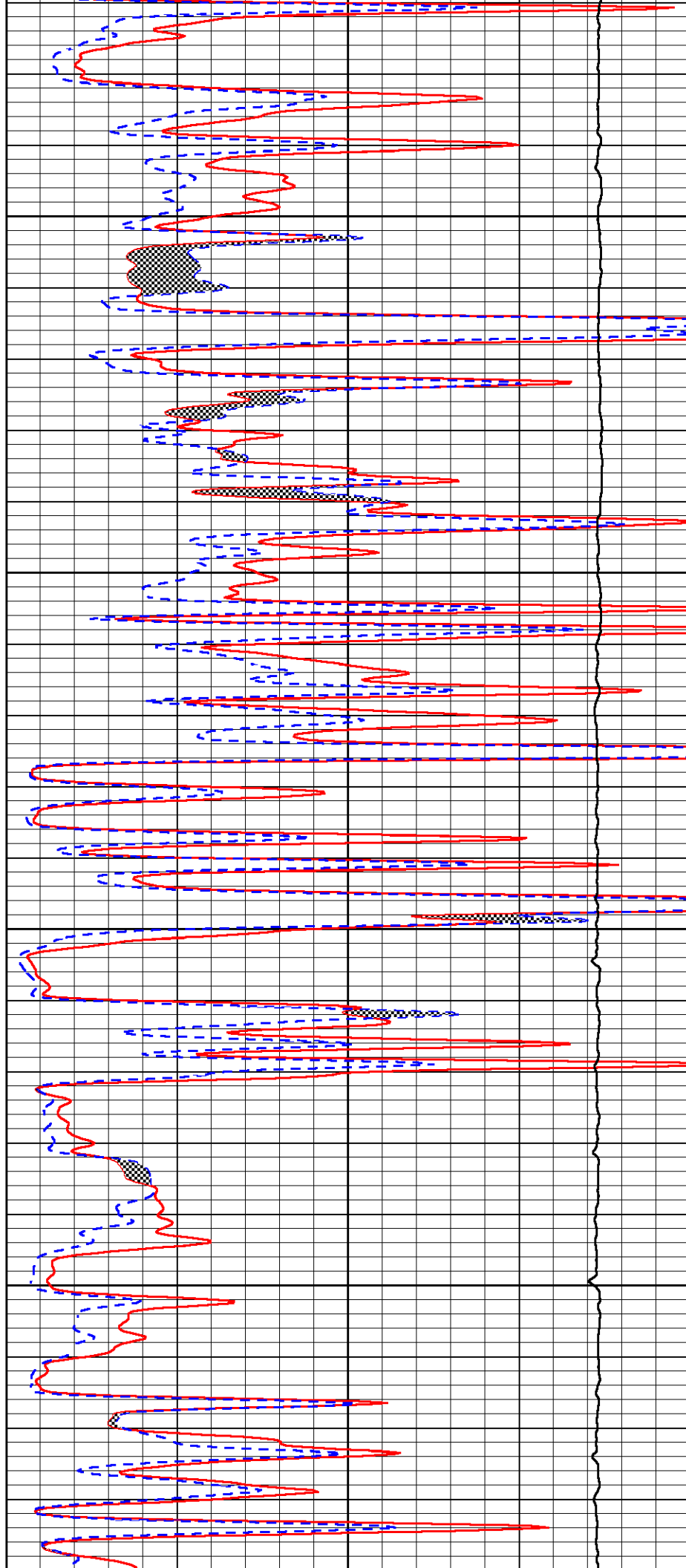


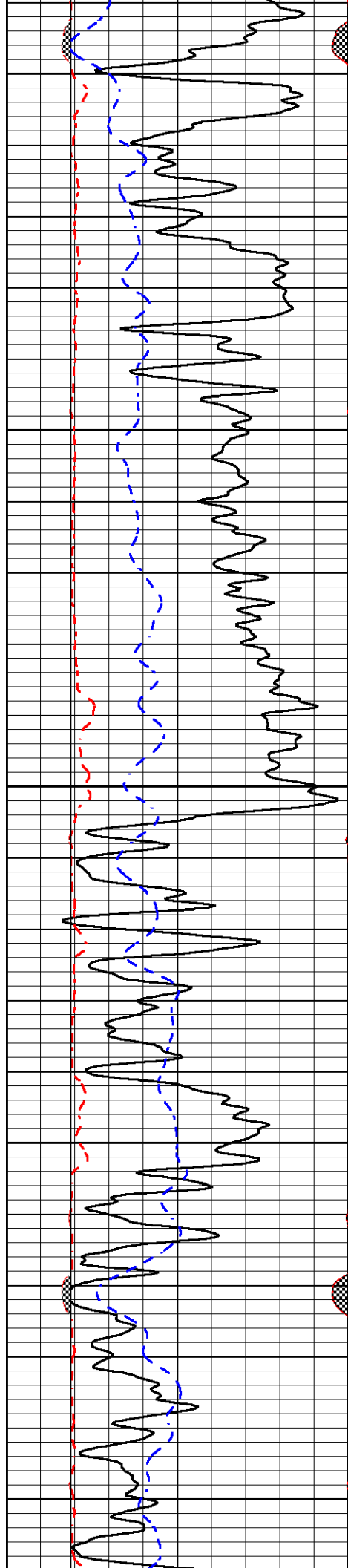
2900

2950

3000

3050





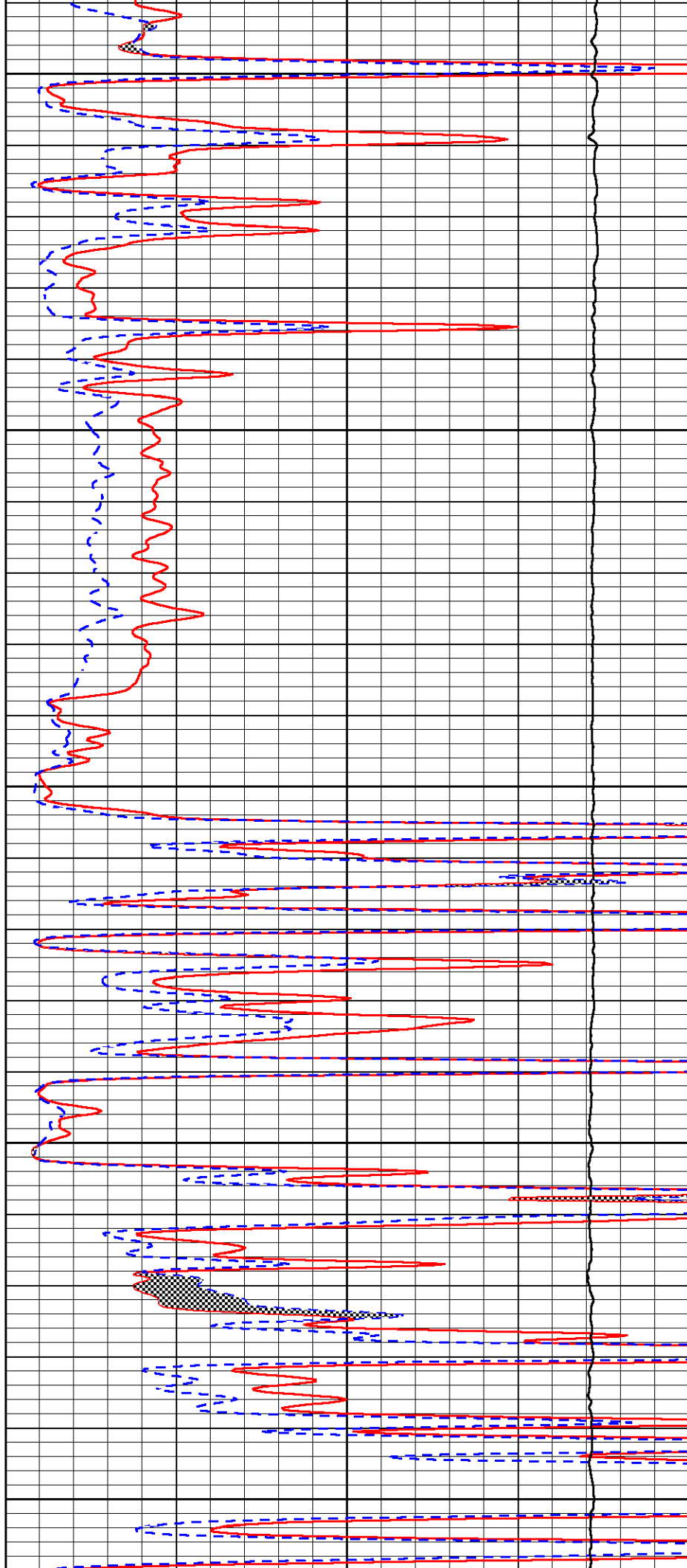
3100

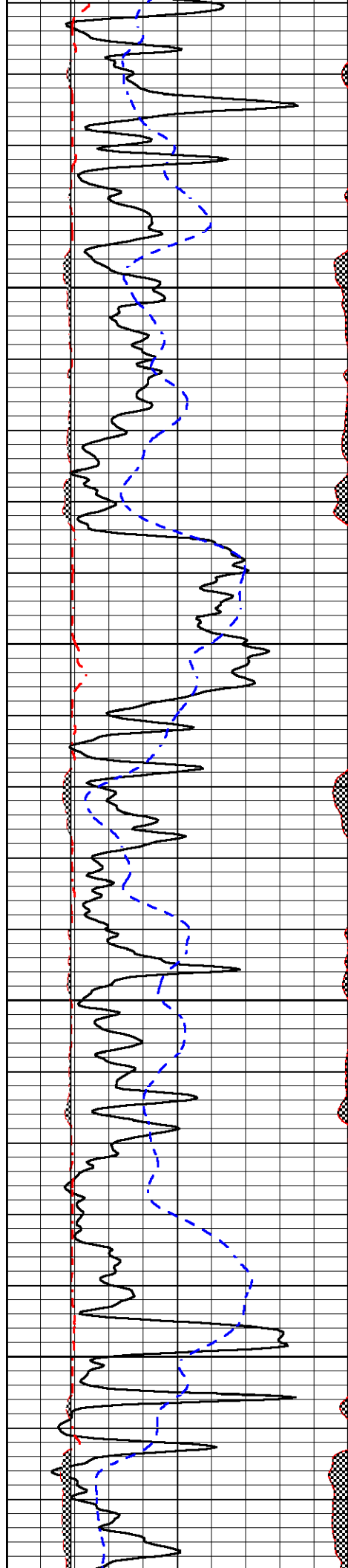
3150

3200

3250

3300



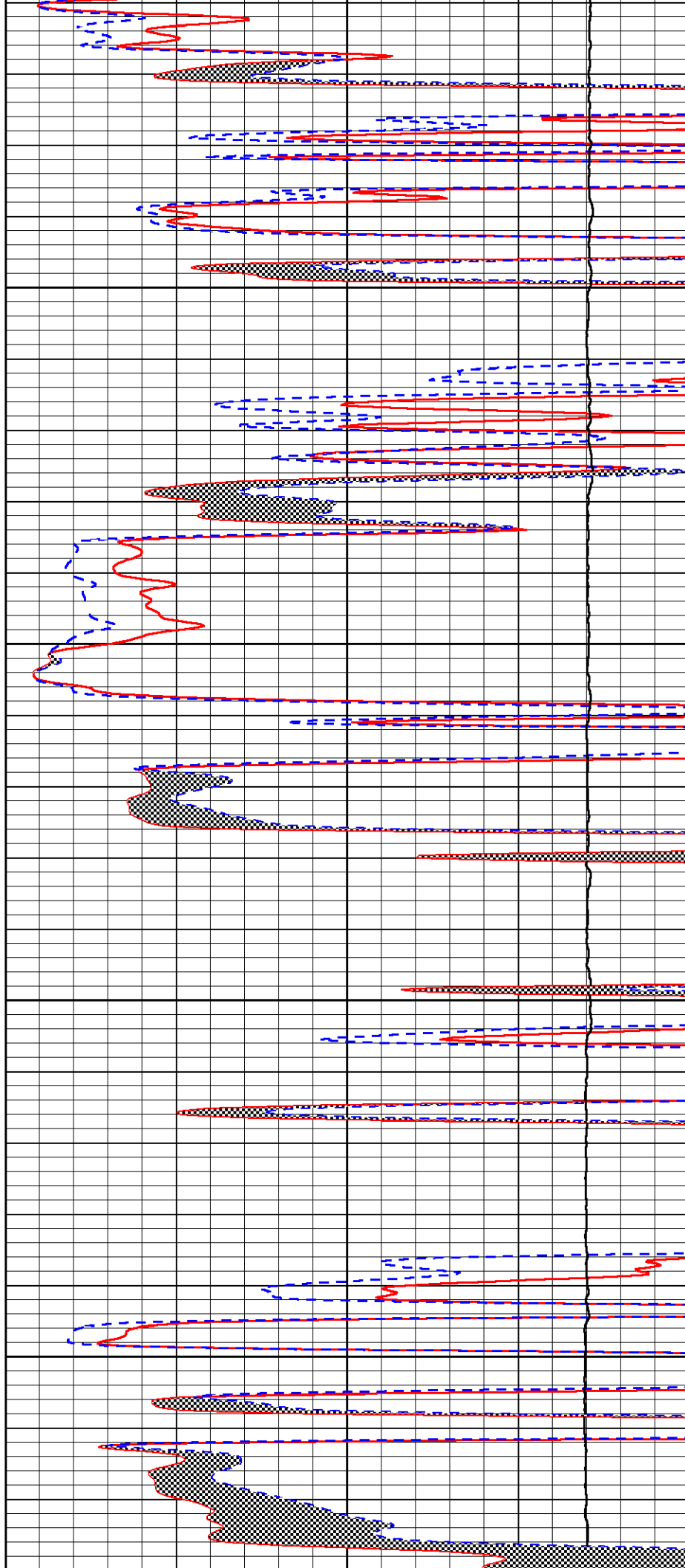


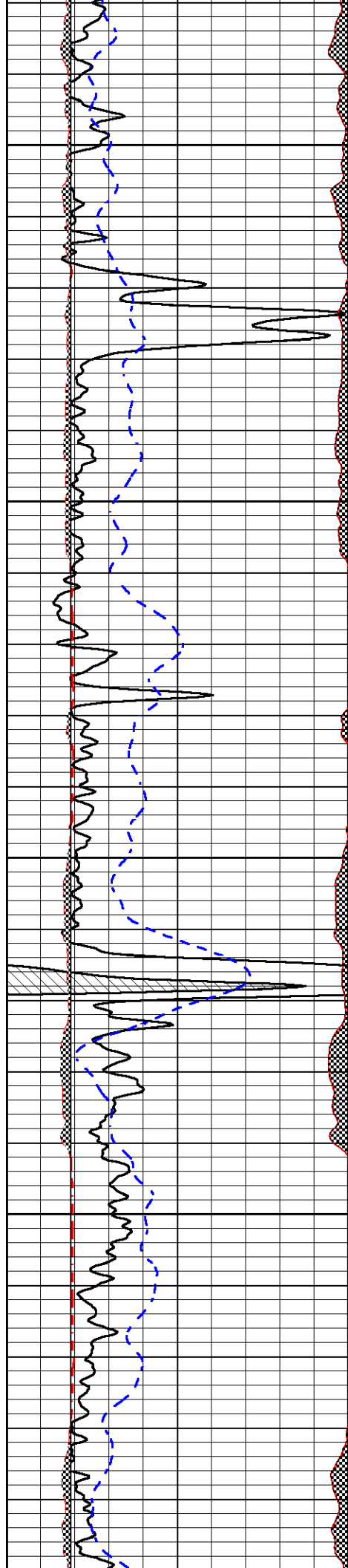
3350

3400

3450

3500





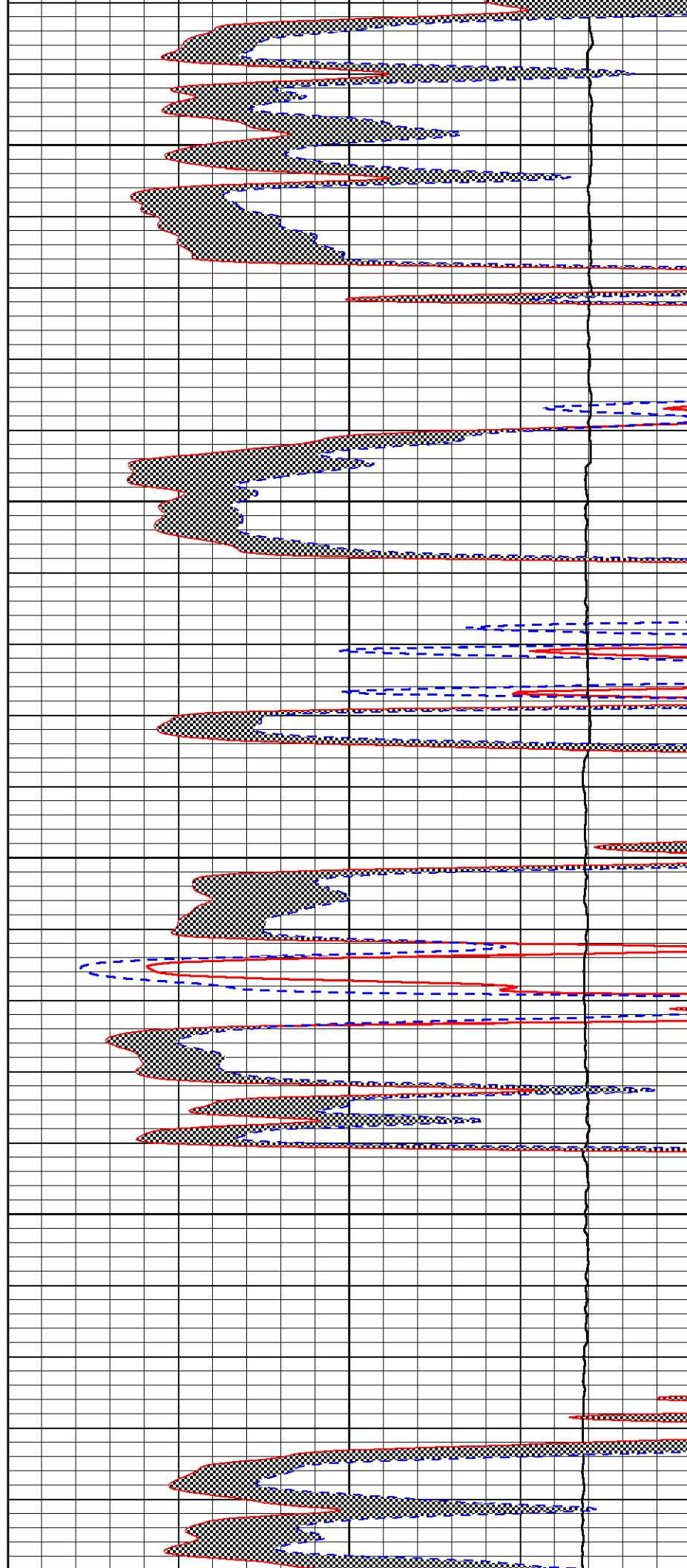
3550

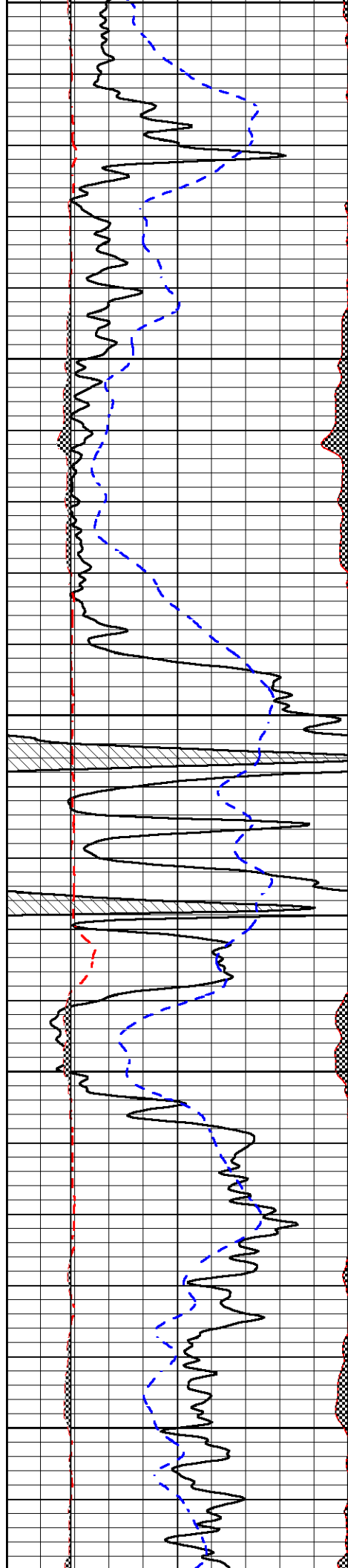
3600

3650

3700

3750





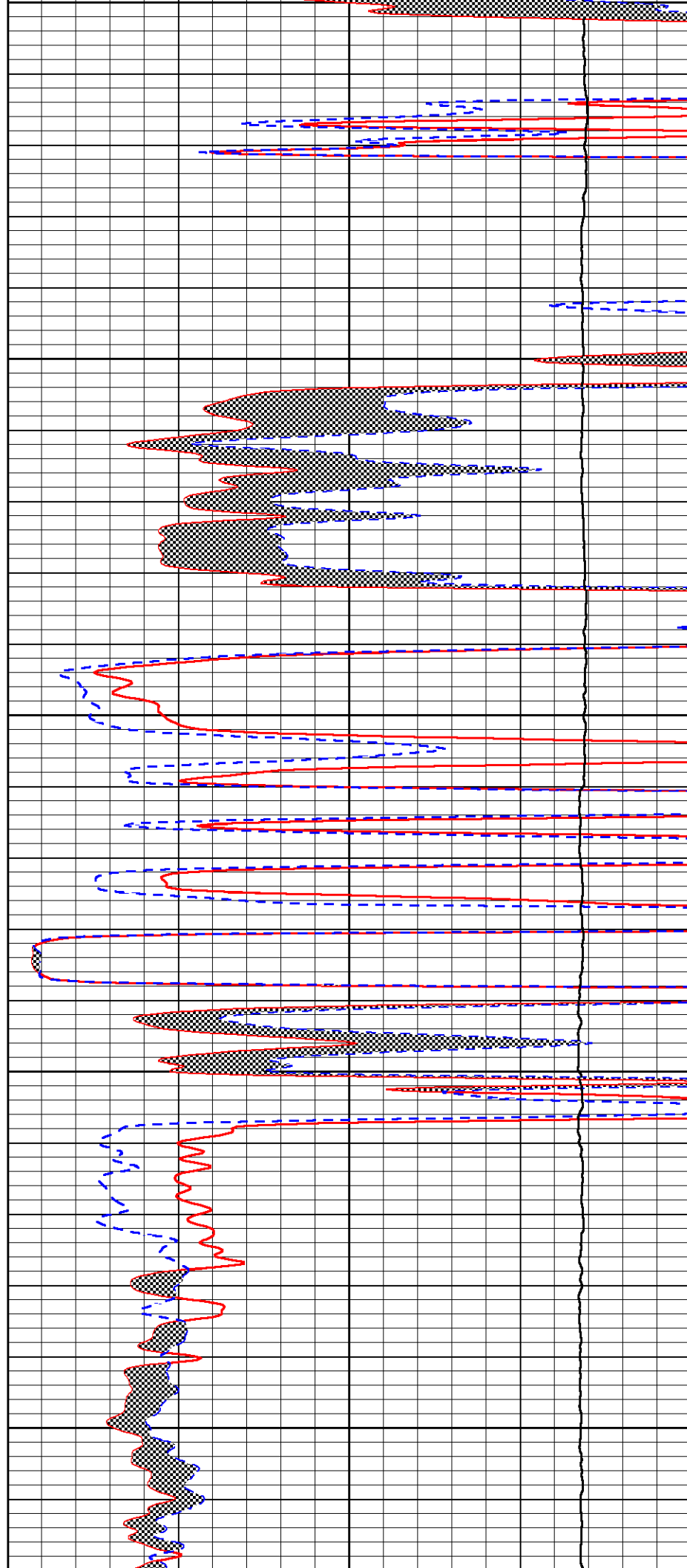
3750

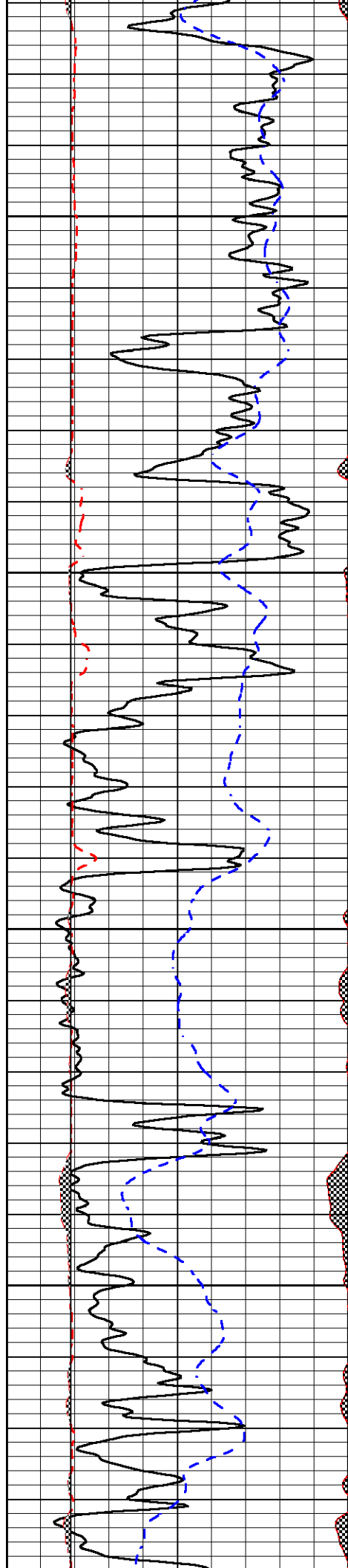
3800

3850

3900

3950



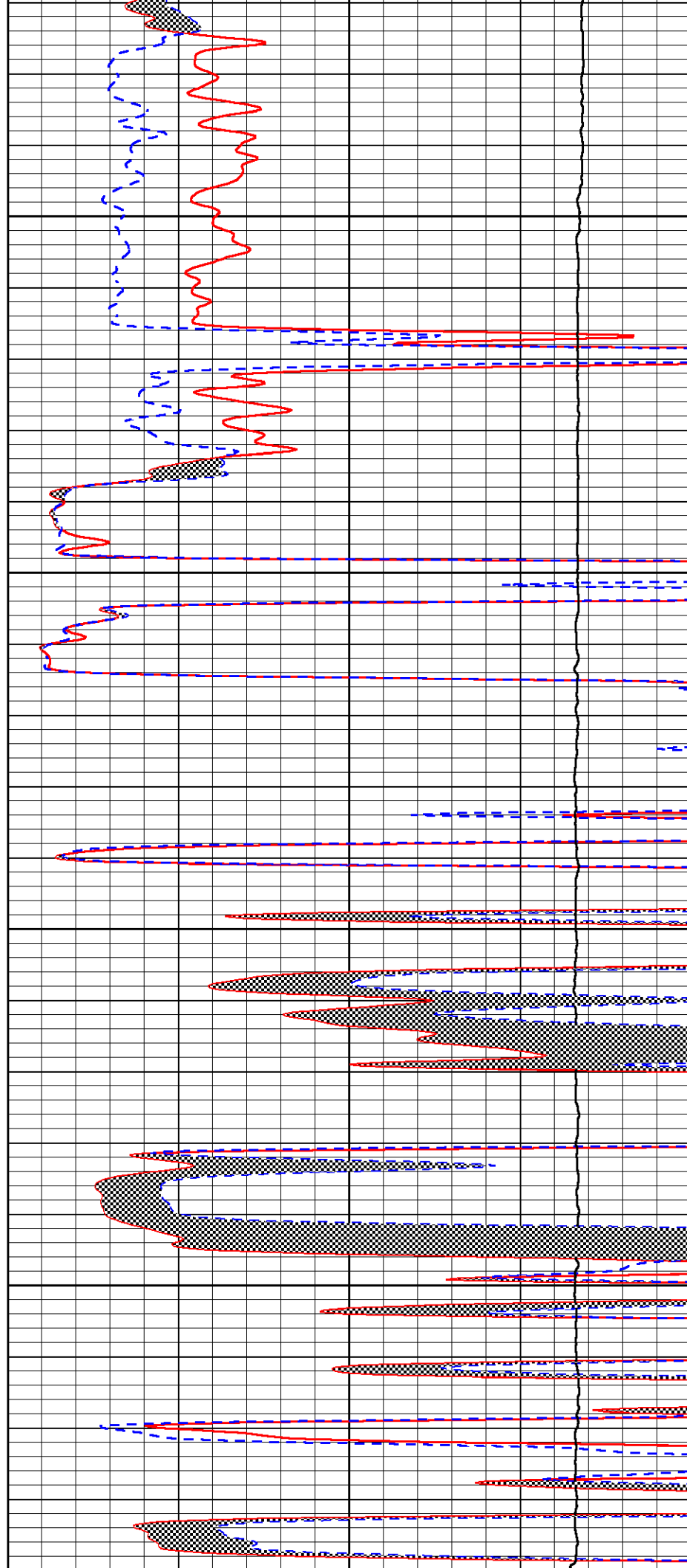


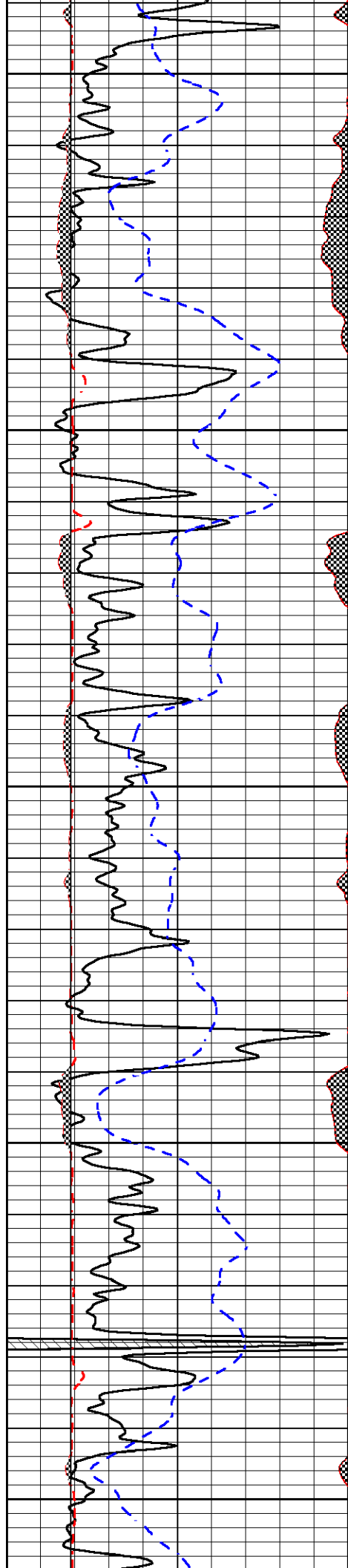
4000

4050

4100

4150





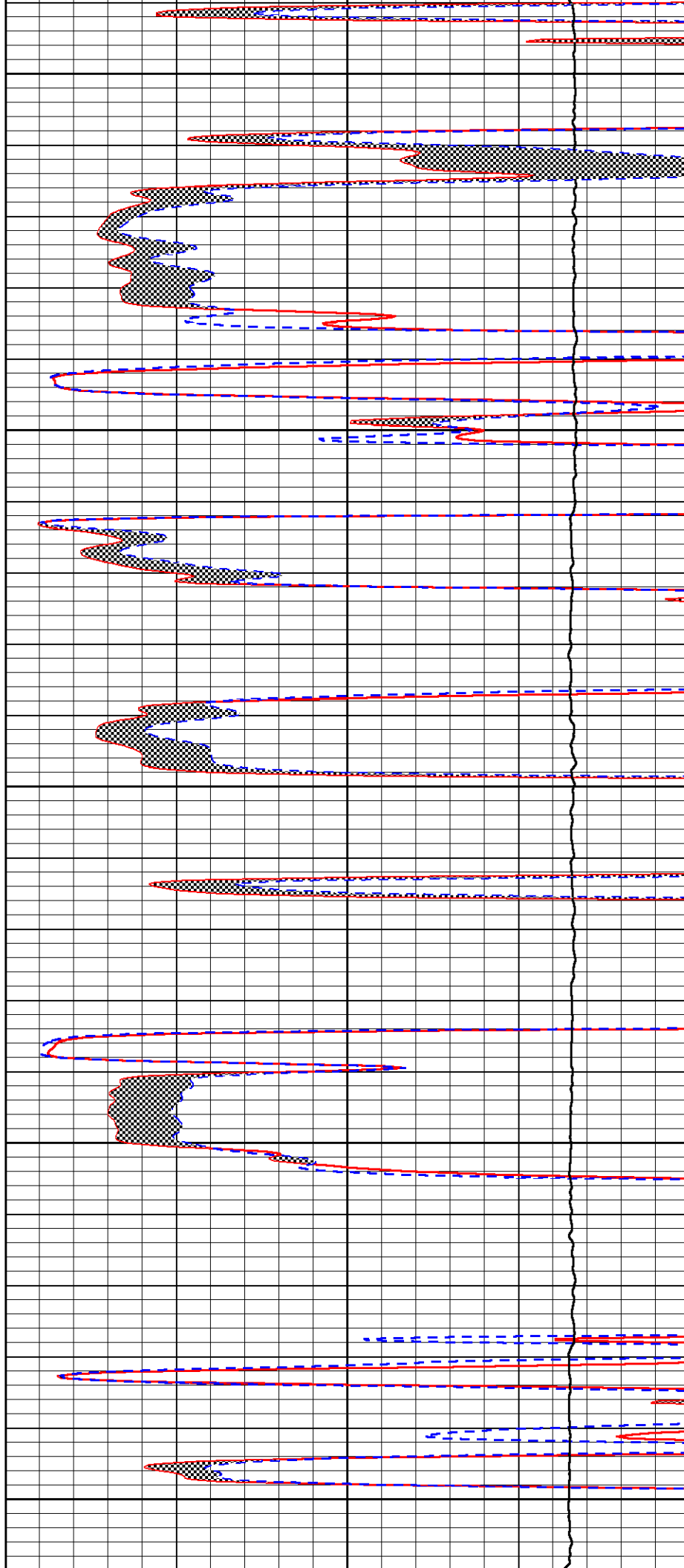
4200

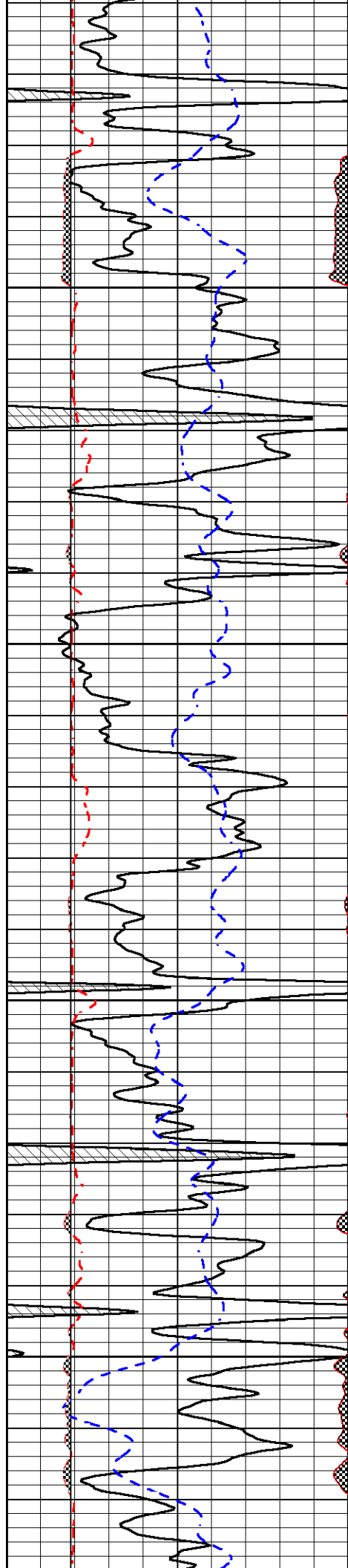
4250

4300

4350

4400



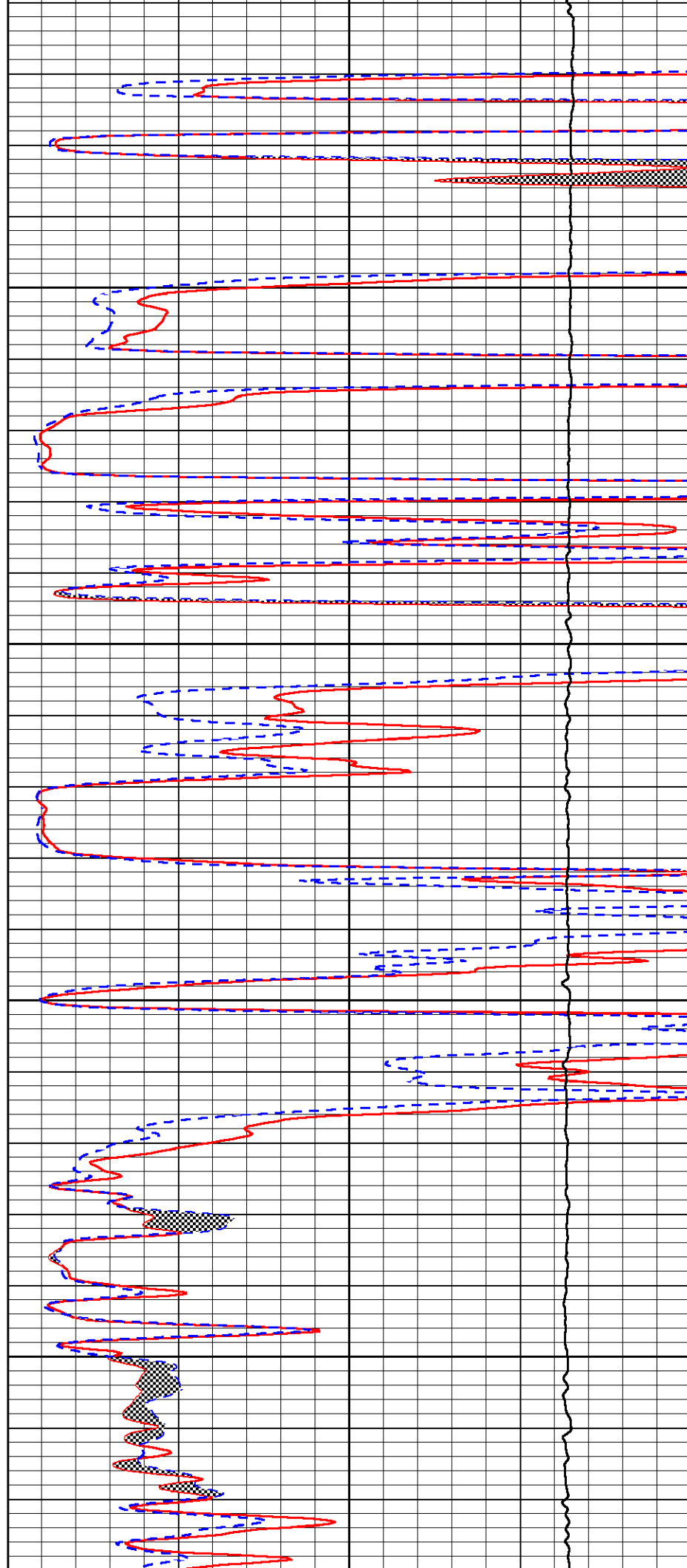


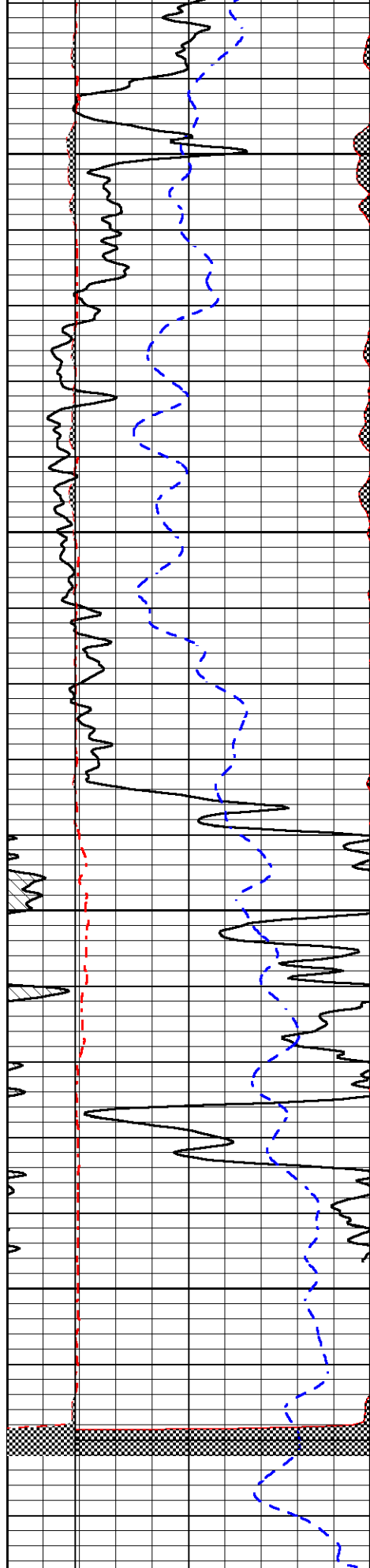
4450

4500

4550

4600





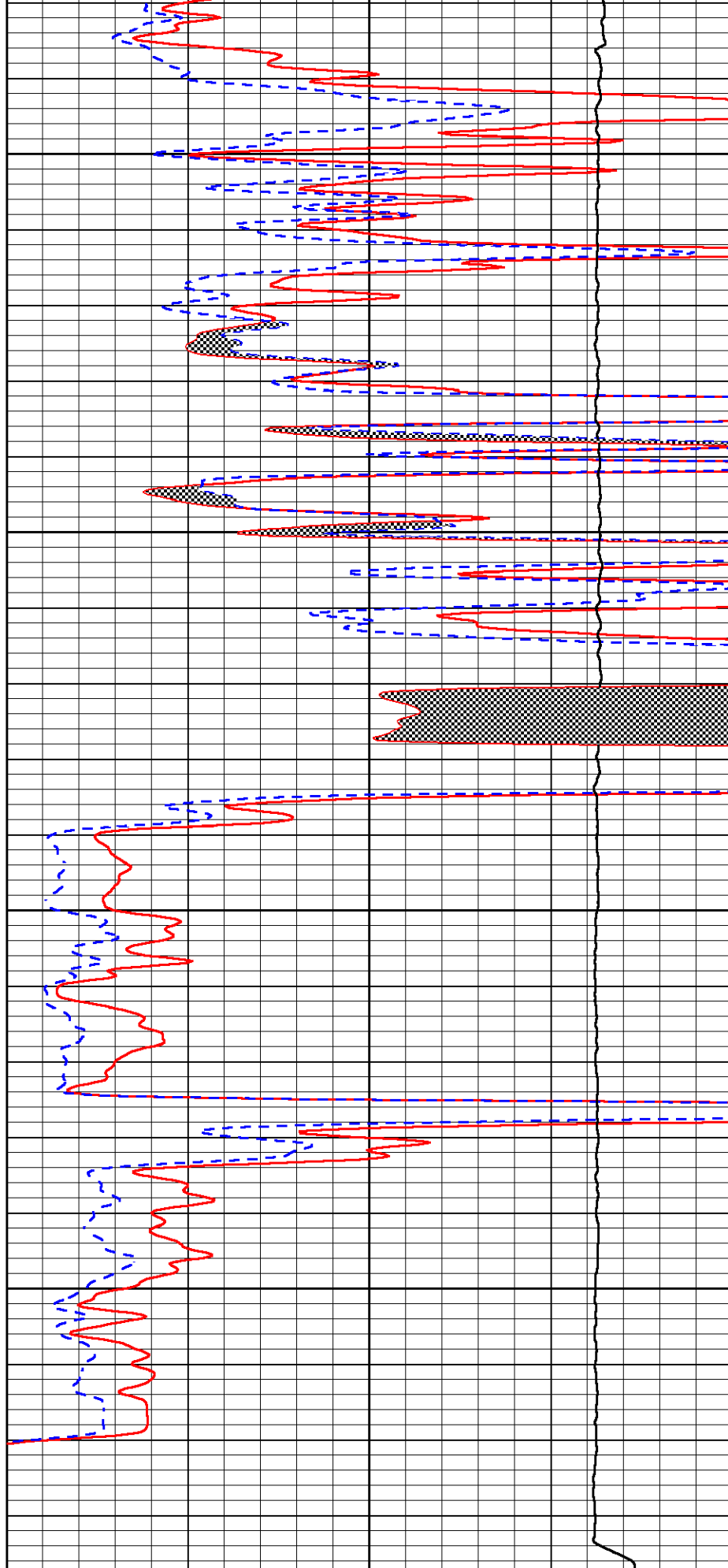
0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
2.875 mcal (in) 7.875

4650

4700

4750

4800



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

2.875	in	7.875
-200	sp (mV)	0

10000	Line Weight (lb)	0
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MIDWEST WIRELINE

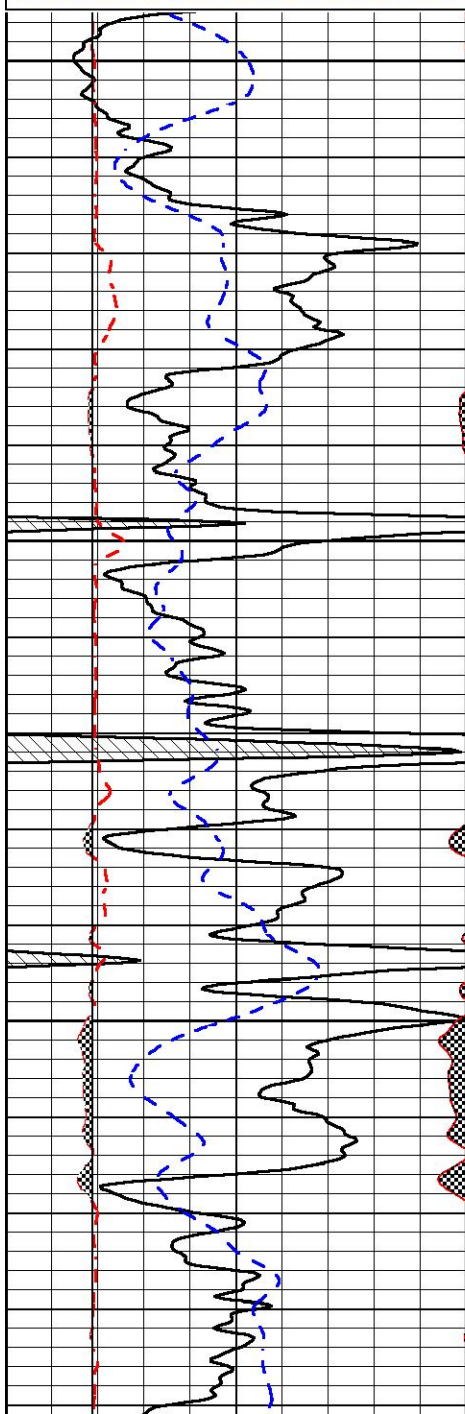
REPEAT SECTION

REPEAT PASS

Database File griffin_anna #2.db
Dataset Pathname StkMI/pass2.1
Presentation Format _micro
Dataset Creation Mon Sep 25 20:28:47 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

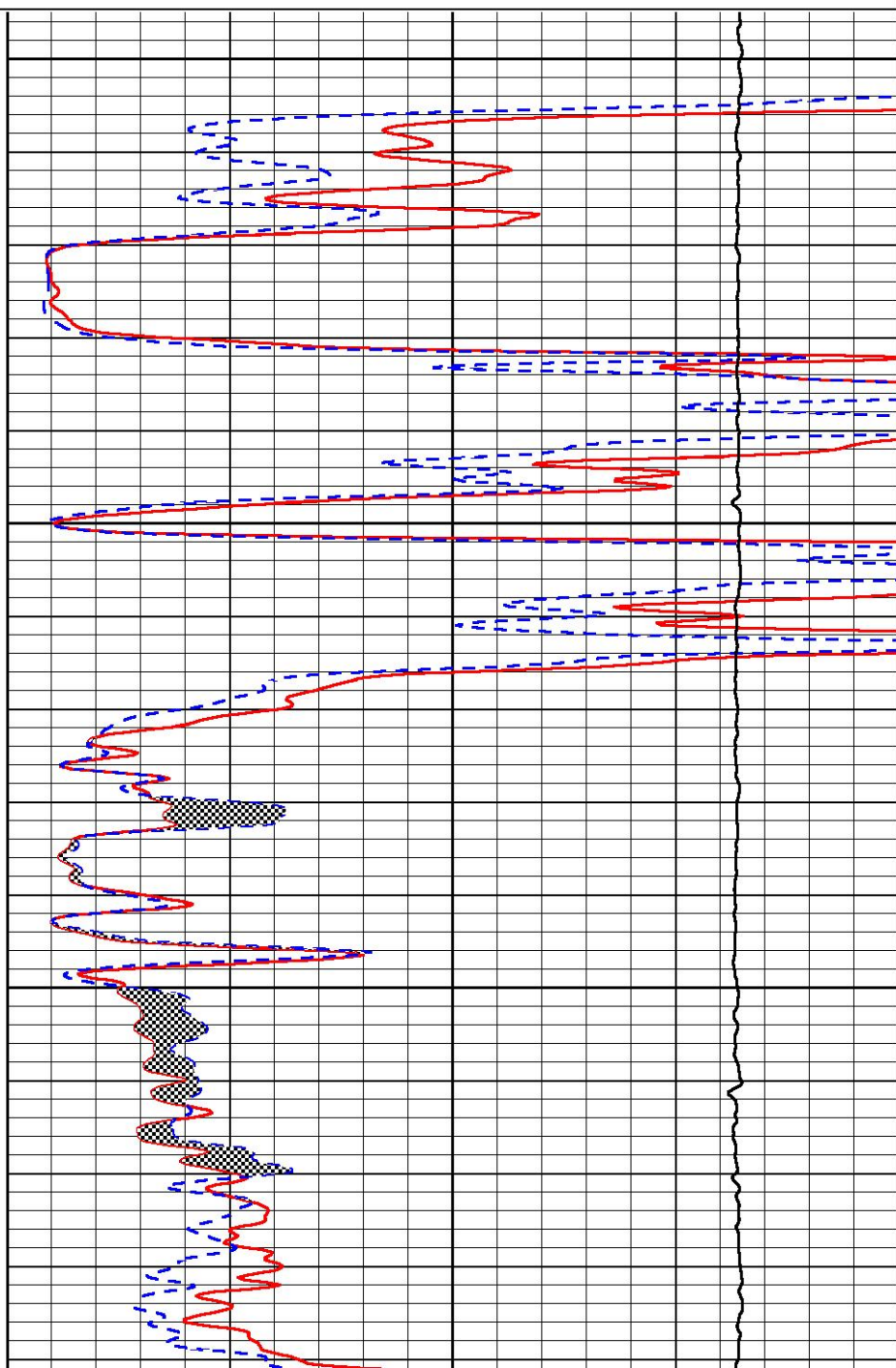
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

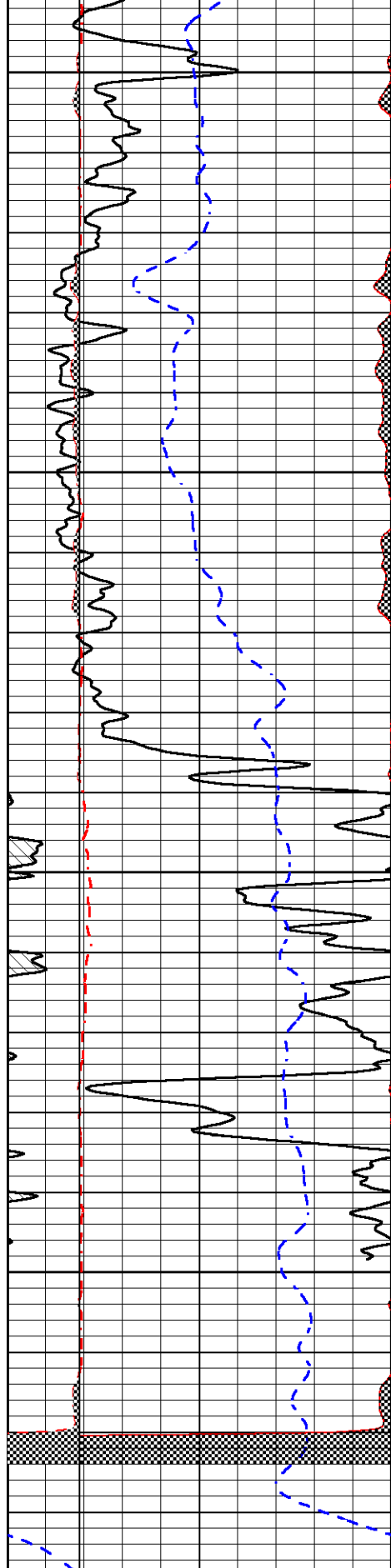


4500

4550

4600





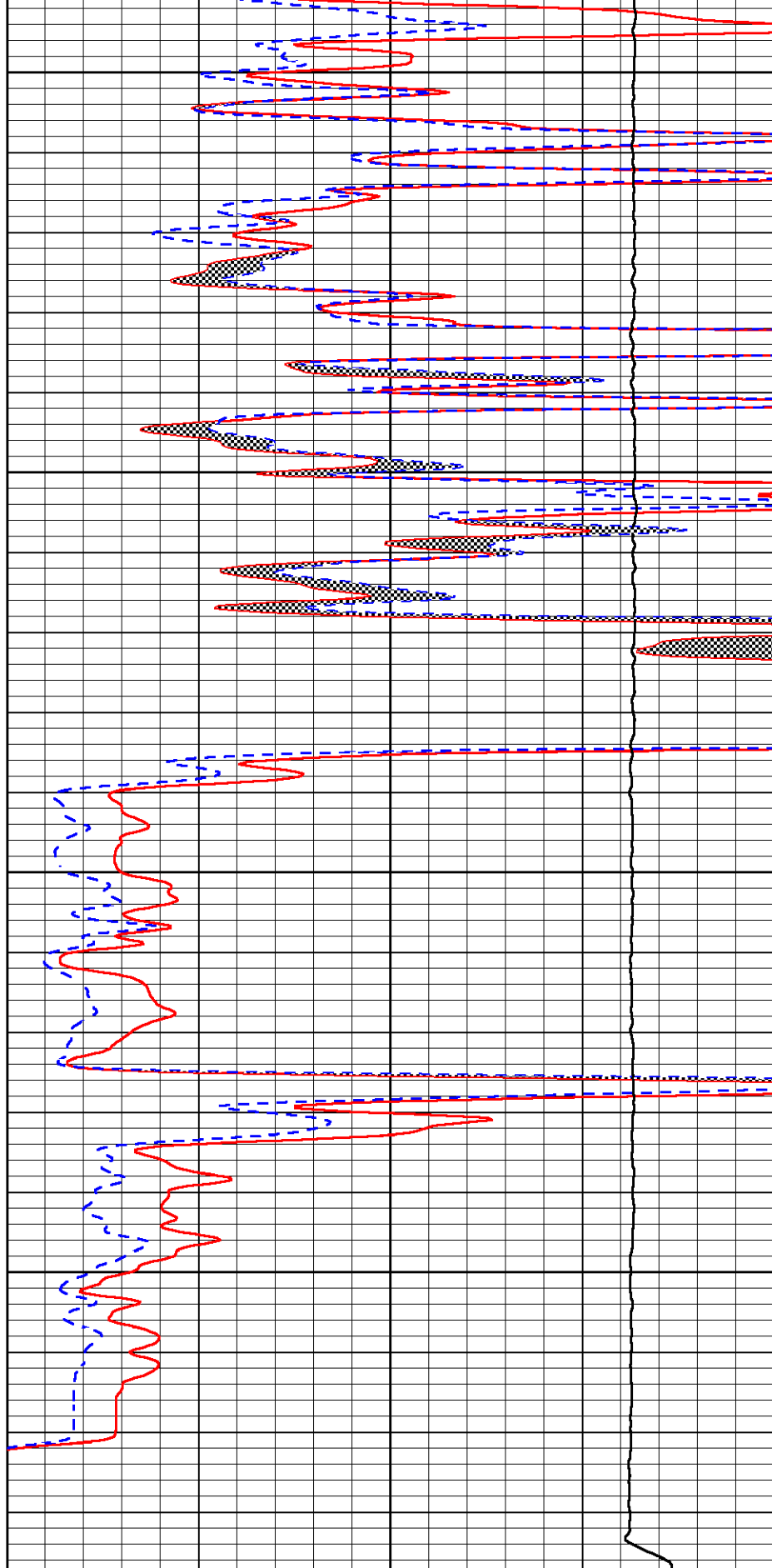
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

4650

4700

4750

4800



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

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-M&W							
Surface Cal Performed:									
Loop:	Readings		References			Results			
	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:		401-PSIML							
Performed:		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	0.204		

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	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	cps	
LS:	1400	1600	3800	3100	60	100	70	6 cps	
Caliper:									
Small Ring:	Reference:		Reading:						
Large Ring:	6.0 in		0.2						
Gain:	15.0 in		0.8						
Offset:	16.161								
	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



Company	Griffin Management LLC
Well	Anna #2
Field	Moffett
County	Barber
State	Kansas