



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company Griffin Management, LLC		Company Griffin Management, LLC	
Well	Kay #2	Well	Kay #2
Field		Field	
County	Pratt	County	Pratt
State	Kansas	State	Kansas
Location: API #: 15-151-22545-00-00		Other Services	
Permanent Datum SW NE SE NE		CNL/CDL	
Log Measured From 1735 FNL & 590 FEL		MEL	
Drilling Measured From SEC 32 TWP 29S RGE 15W			
Date	6/22/2022		
Run Number	One		
Depth Driller	4833		
Depth Logger	4832		
Bottom Logged Interval	4831		
Top Log Interval	2800		
Casing Driller	8.625 @ 263		
Casing Logger	263		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5500		
Density / Viscosity	9.4 58		
pH / Fluid Loss	11.0 8.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.45 @ 80		
Rmt @ Meas. Temp	0.34 @ 80		
Rmc @ Meas. Temp	0.61 @ 80		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.29 @ 124		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	124		
Equipment Number	24		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Charles Griffin	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,
South to 110, 1 East, 1/2 South,
West and South 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		This Log Record Was Witnessed By	
Engineer: D. Schmidt		Primary Witness: Charles Griffin	
Operator:		Secondary Witness: Eli Felts	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33			GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48			CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18			CDL-M&W (302-02)	8.50	4.00	250.00
	28.17			ML-PSIML (401)	7.58	4.00	65.00
	27.68						
MCAL MI MN	19.58						
	19.58			RLL3F RLL3	15.50	15.50	
	19.58						
RLL3F RLL3	15.50 15.50			DIL-M&W (502 HT)	18.25	3.50	220.00
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: griffin_kay 2.db: field/well/stkml/pass3.13 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_kay 2.db
Dataset field/well/stkml/pass3.13/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	124	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	-207	80		4832

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

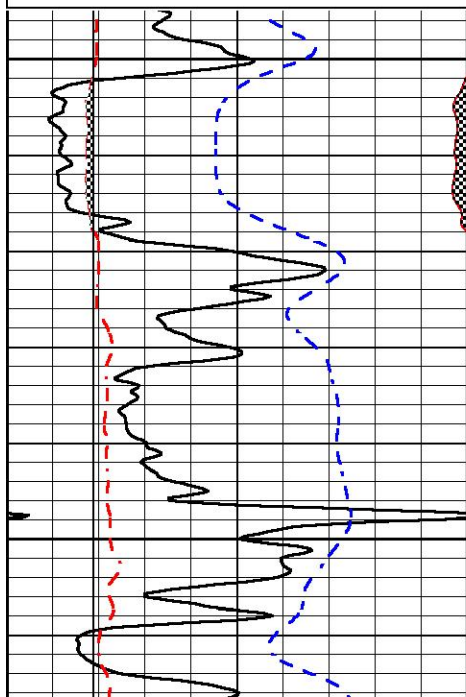
DETAIL SECTION

MAIN PASS

Database File griffin_kay 2.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Wed Jun 22 06:01:50 2022
Charted by Depth in Feet scaled 1:240

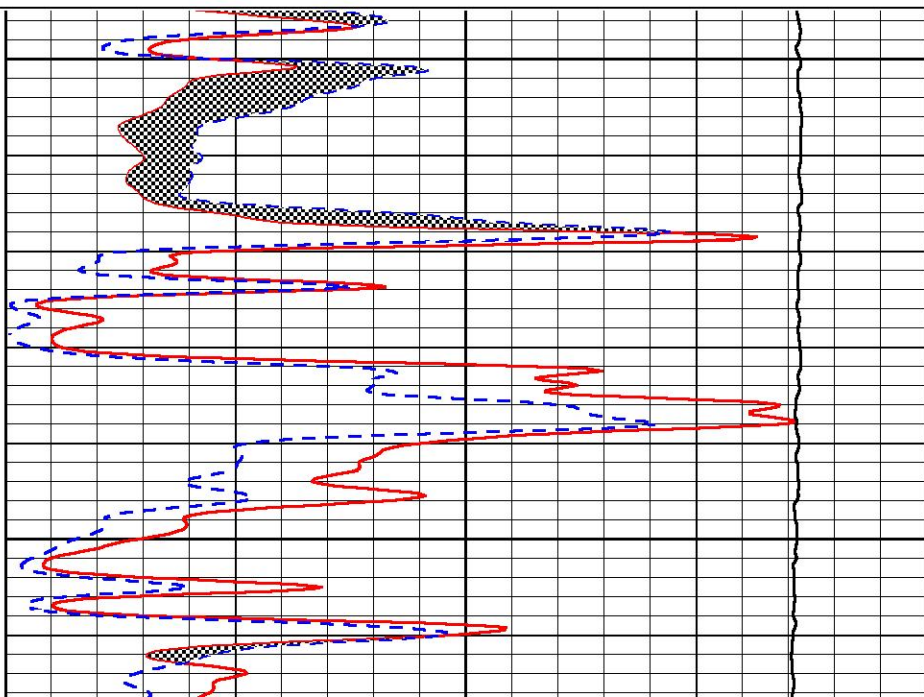
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

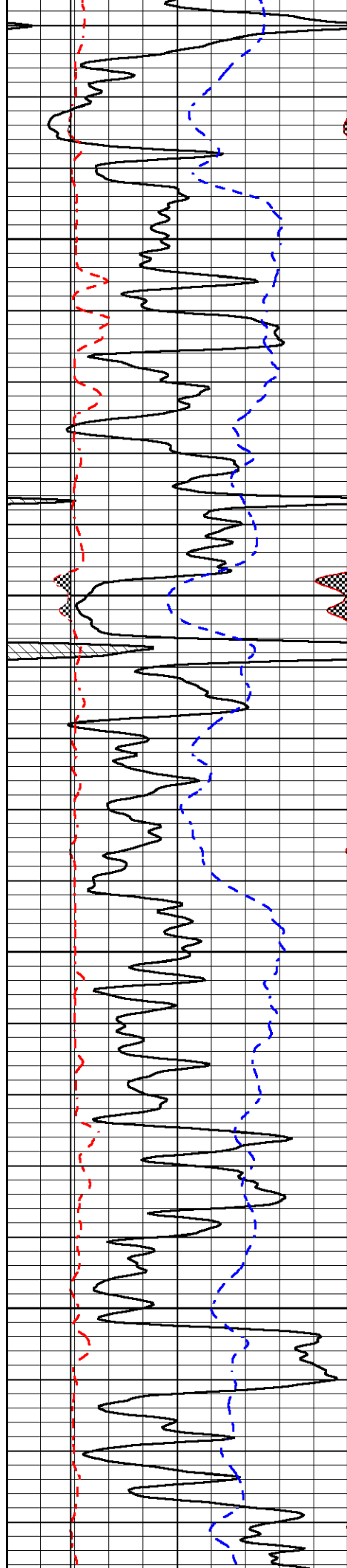
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2800

2850



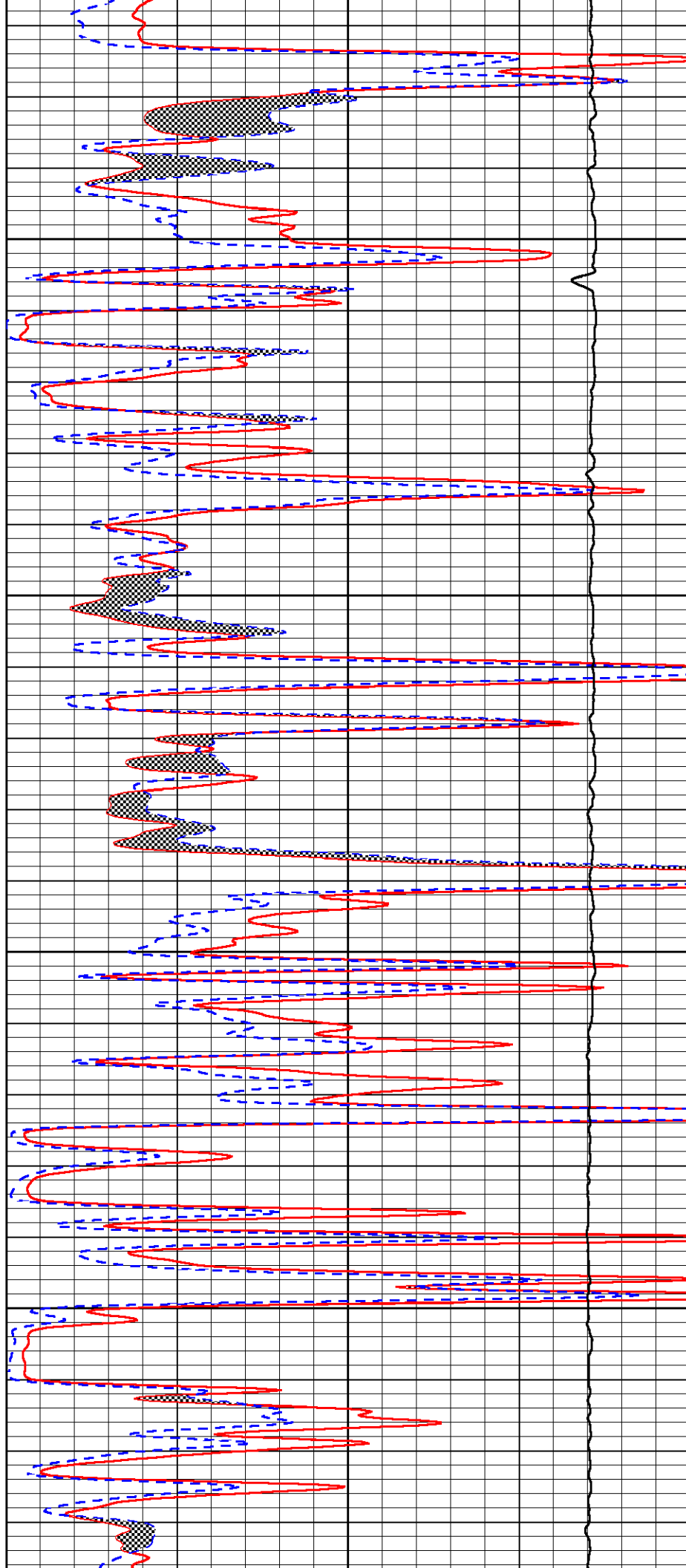


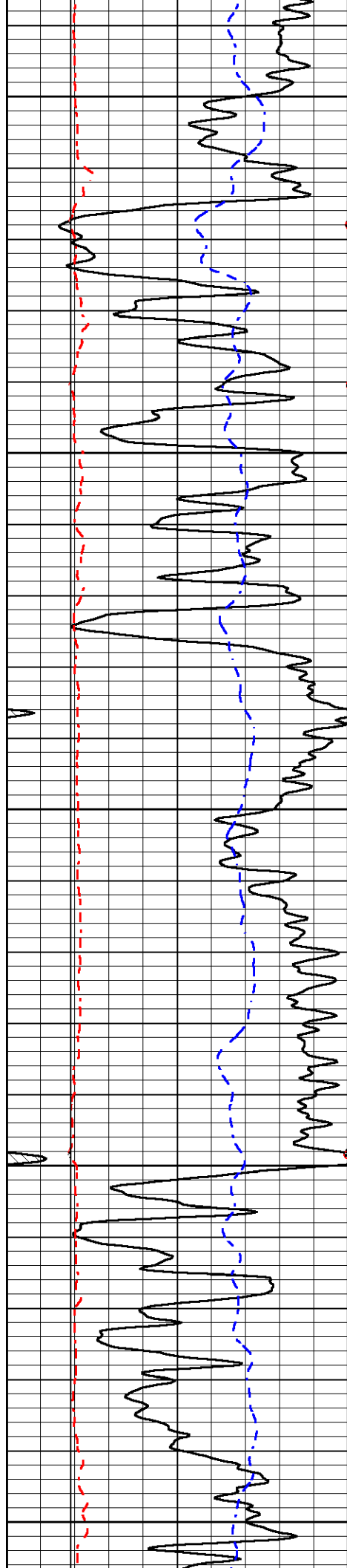
2900

2950

3000

3050





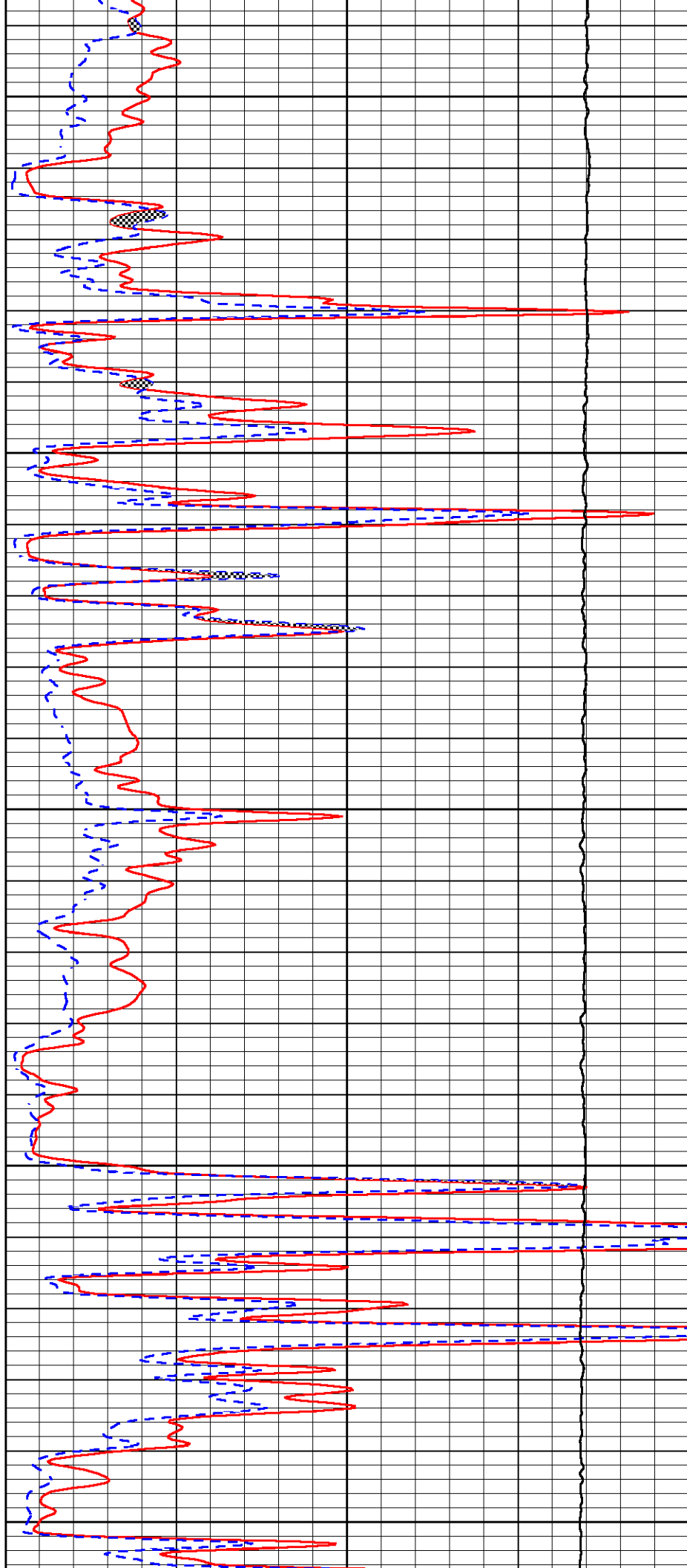
3100

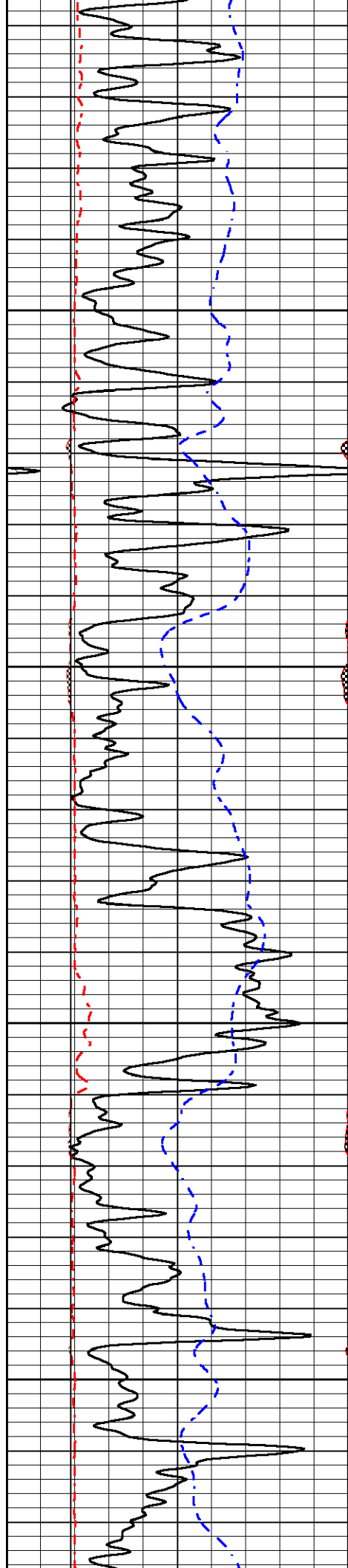
3150

3200

3250

3300



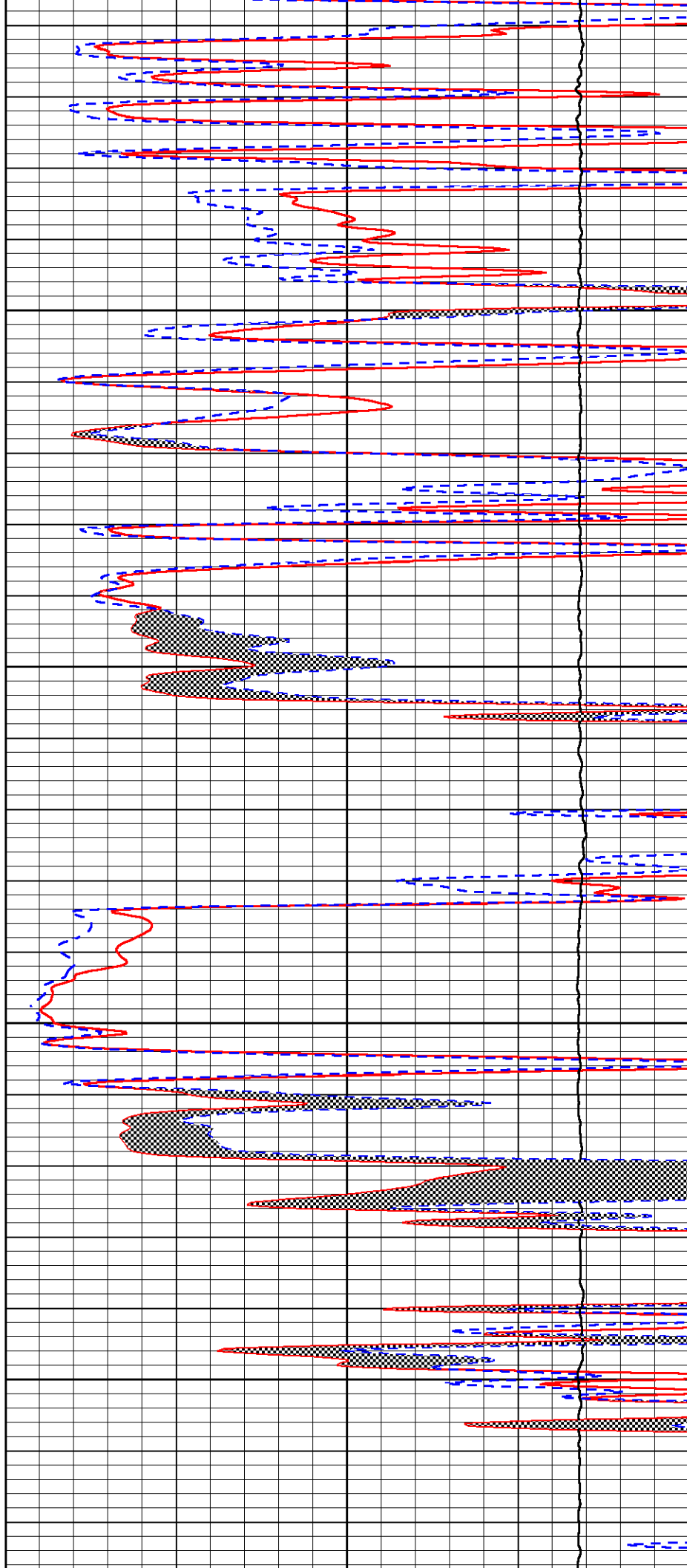


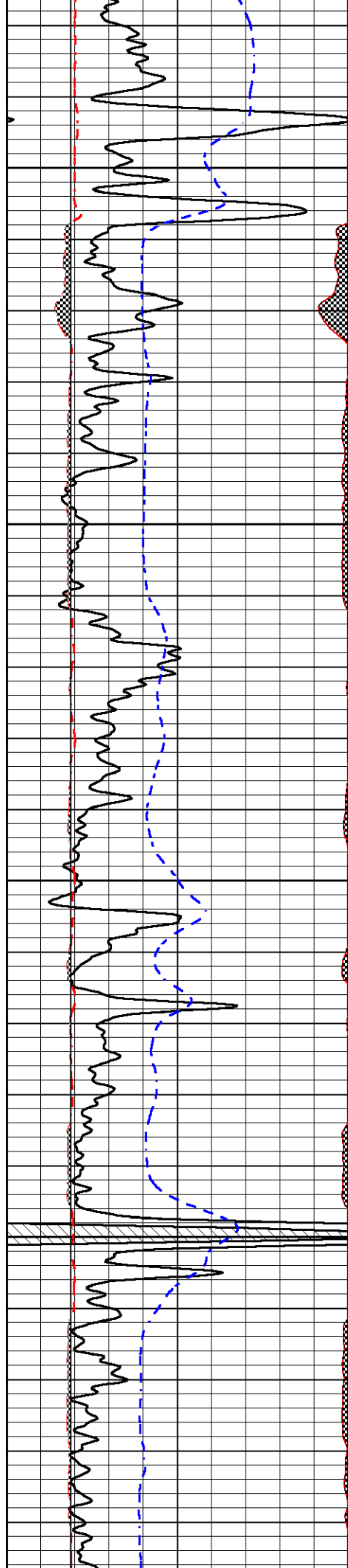
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3400

3450

3500



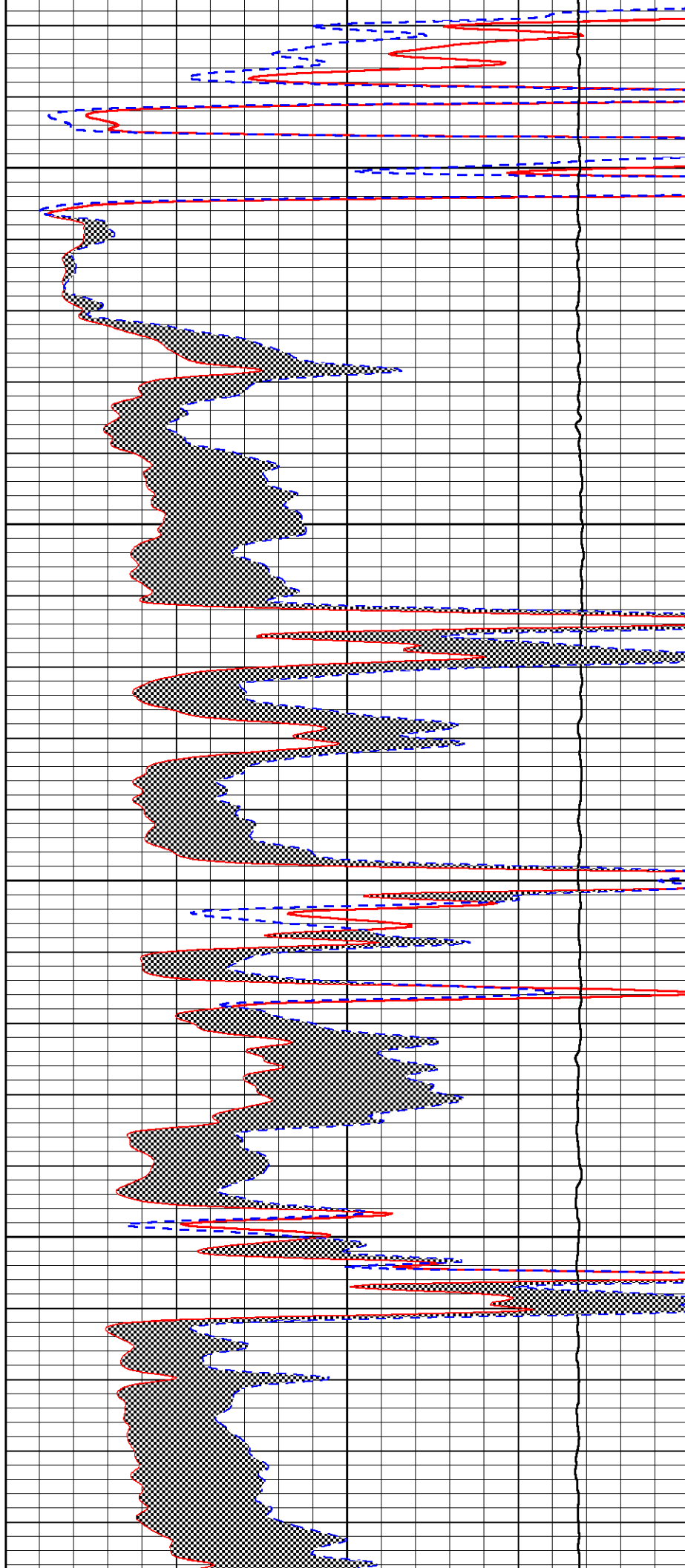


3550

3600

3650

3700





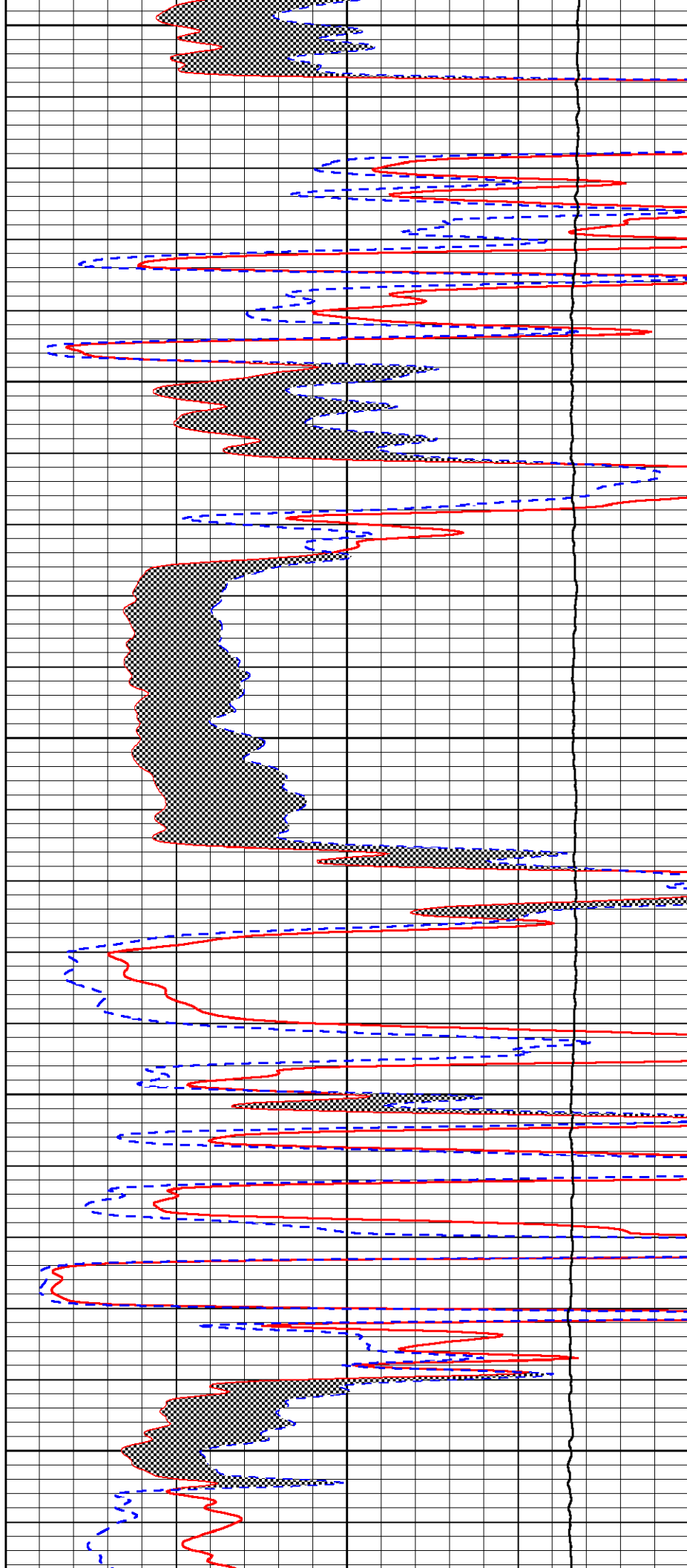
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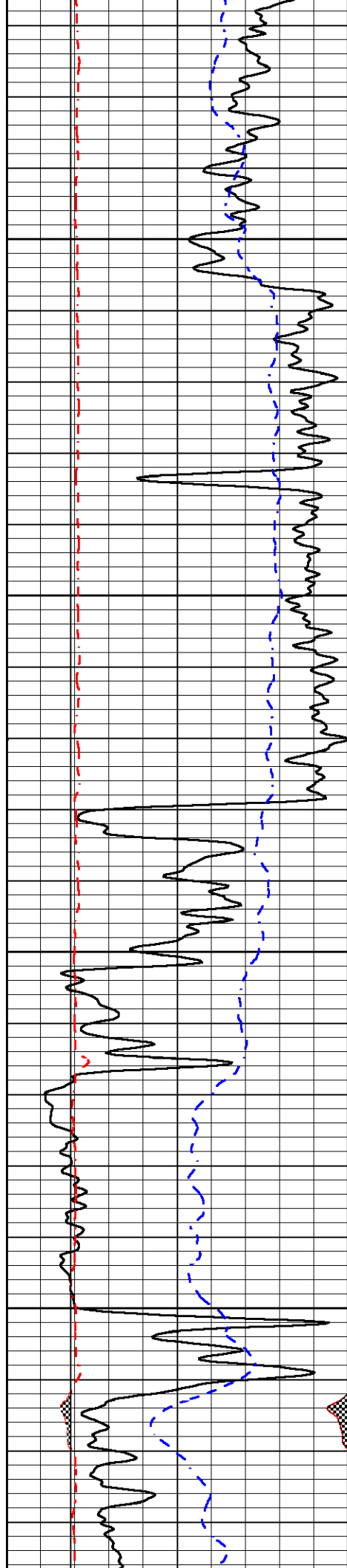
3800

3850

3900

3950



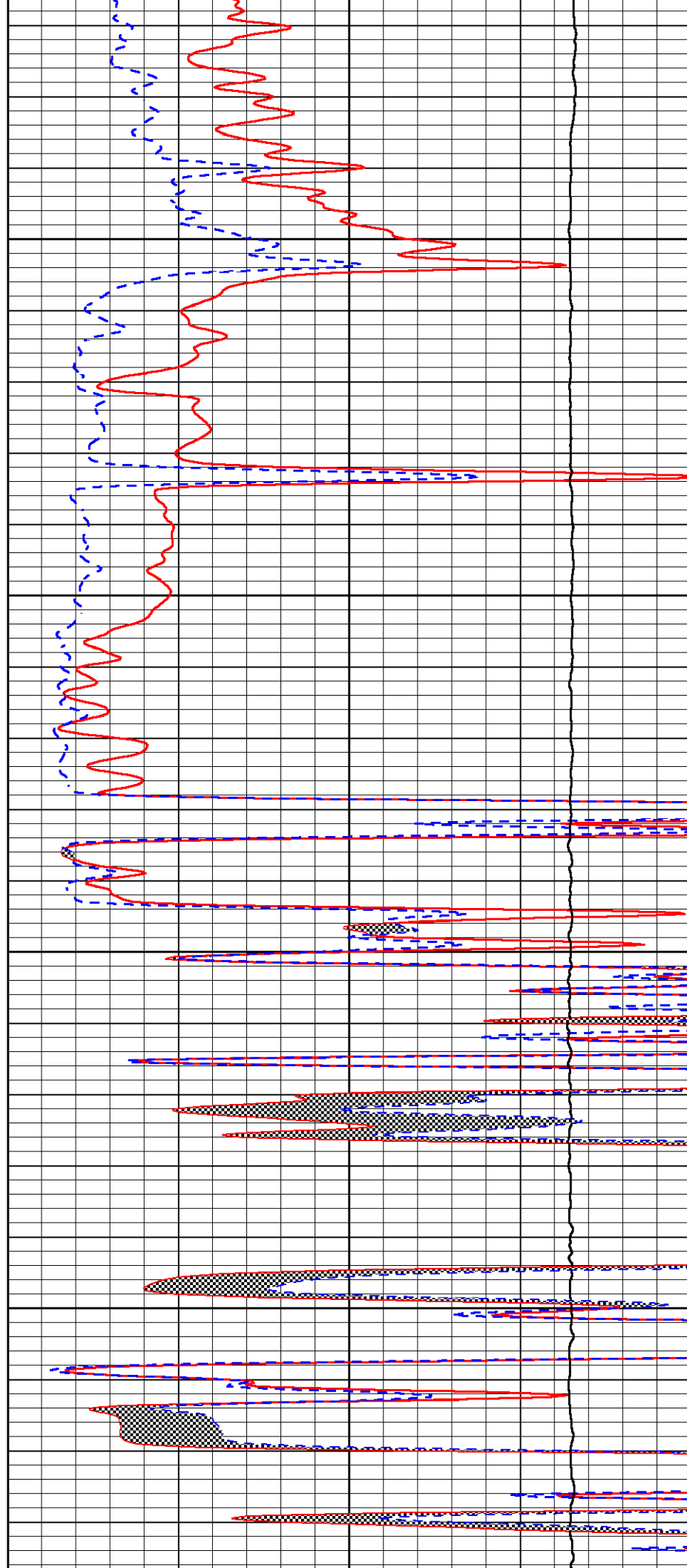


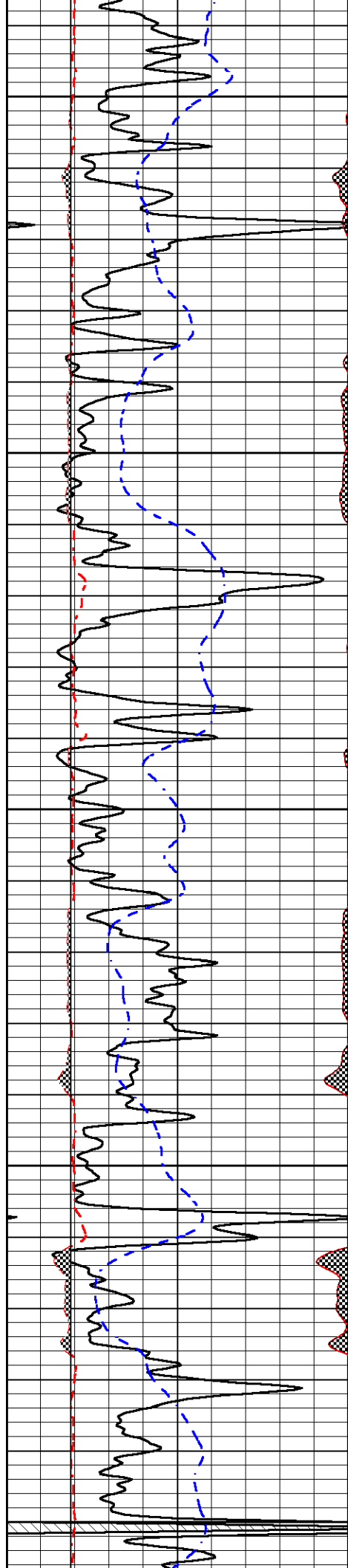
4000

4050

4100

4150





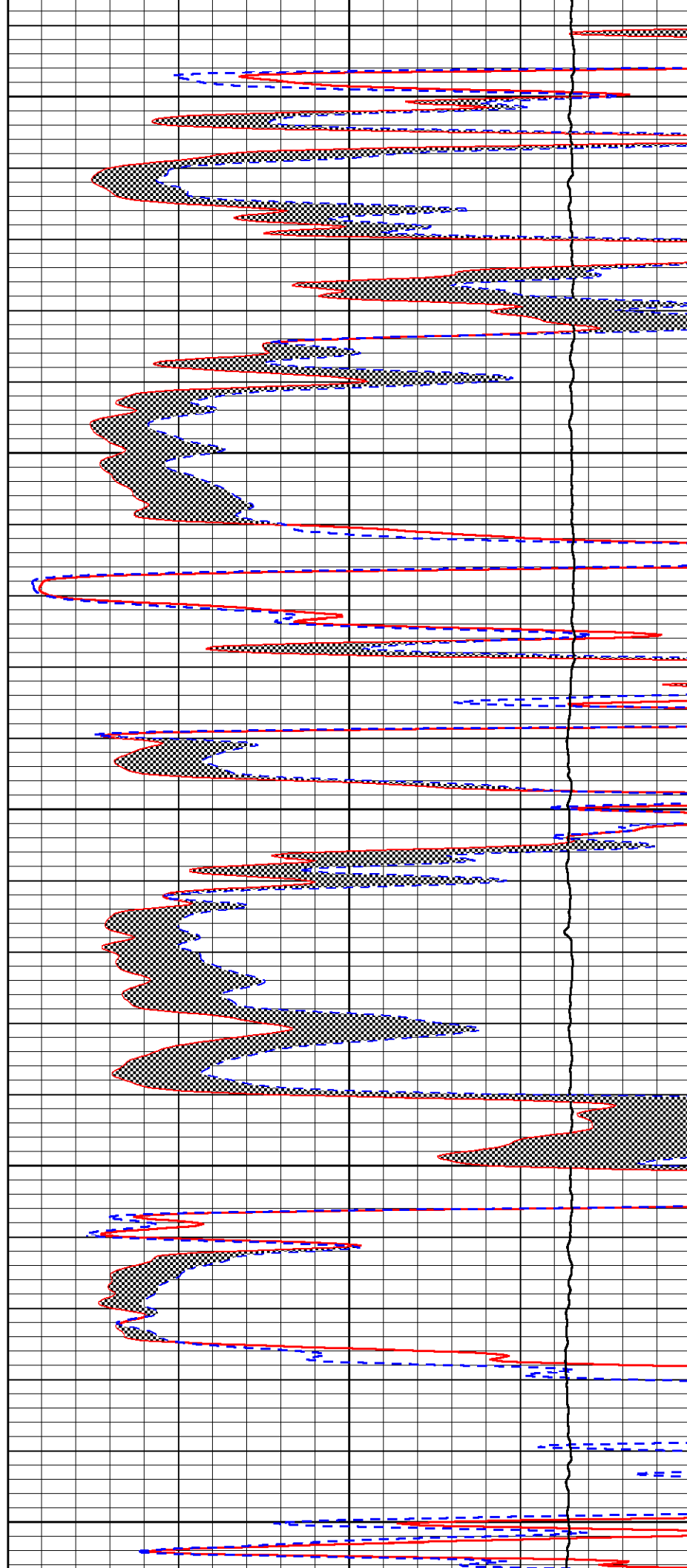
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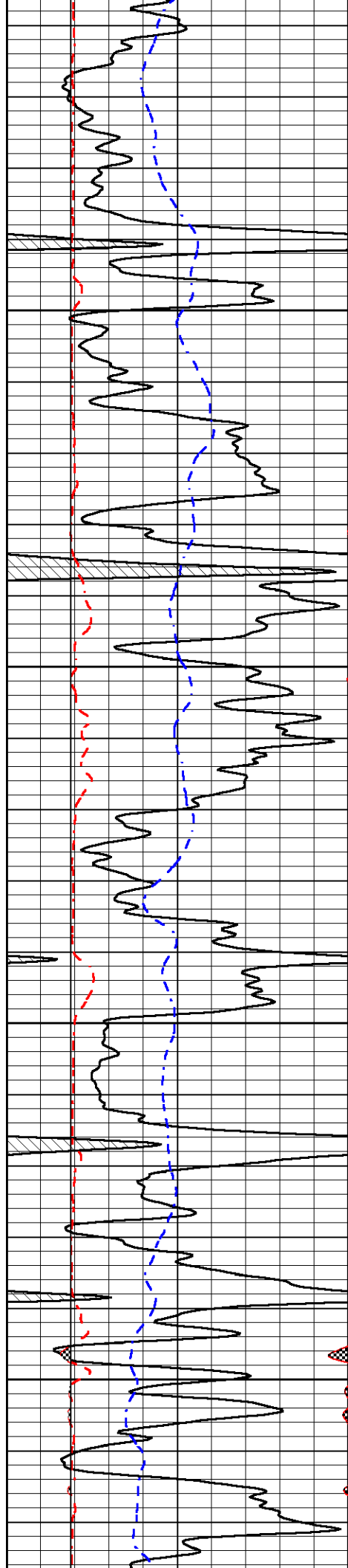
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4300

4350

4400



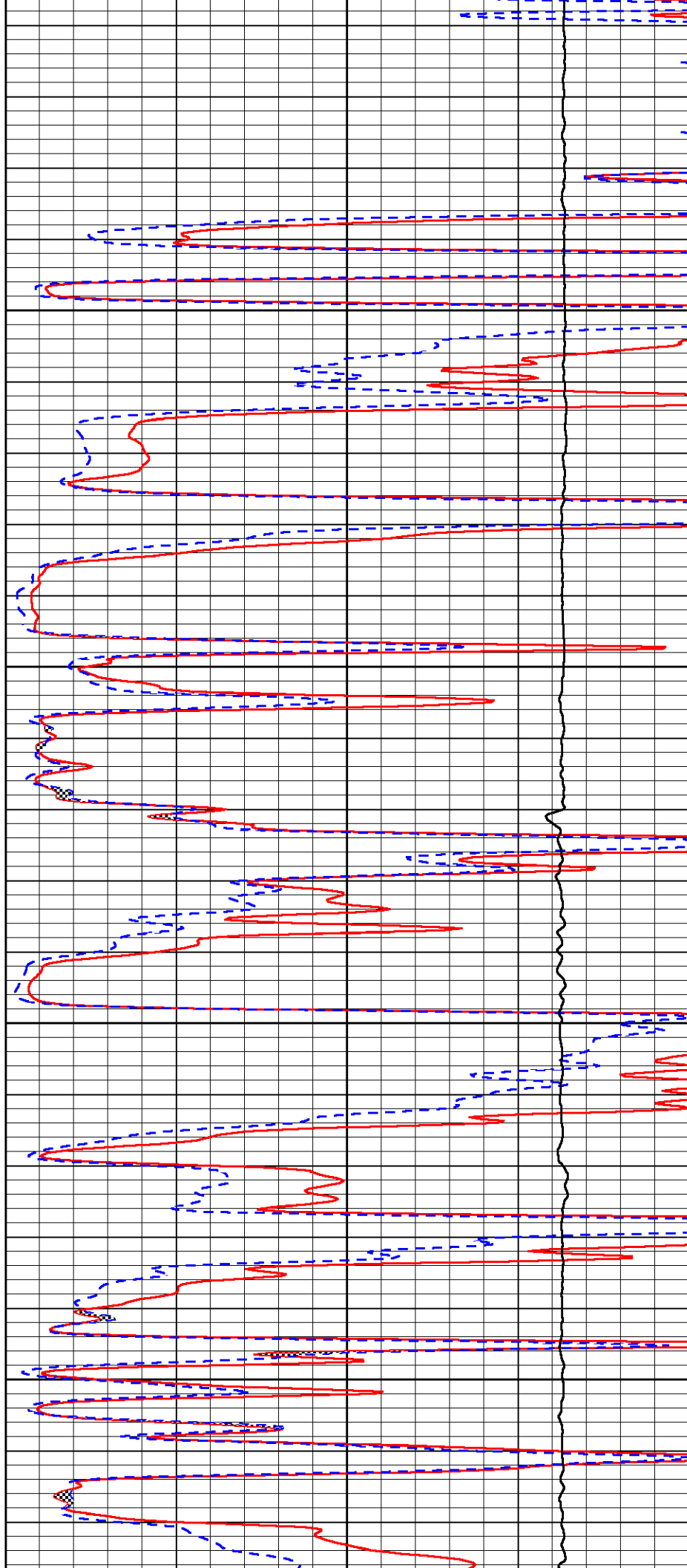


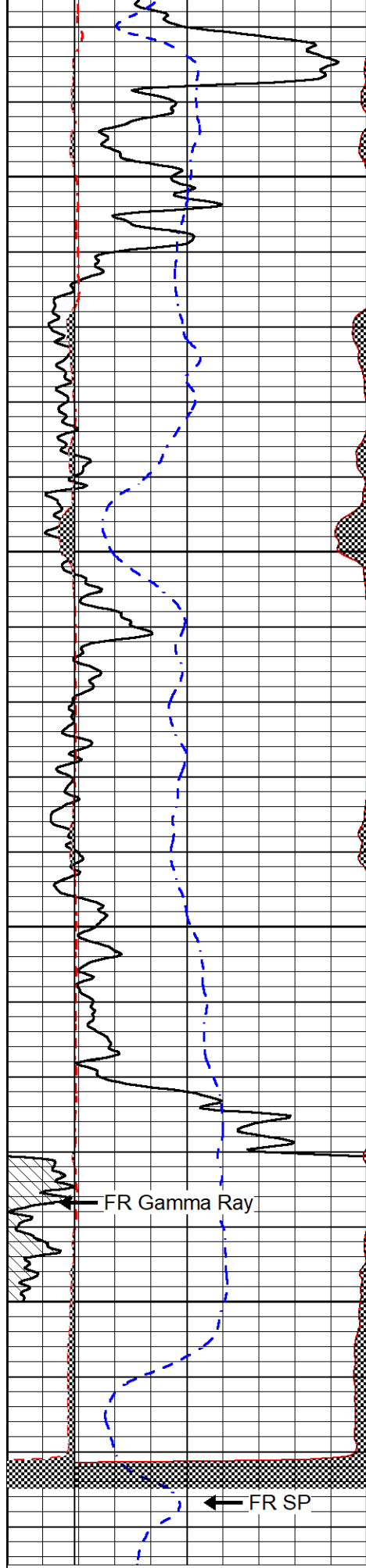
4450

4500

4550

4600





0 Gamma Ray (GAPI) 150

6 Caliper (in) 16

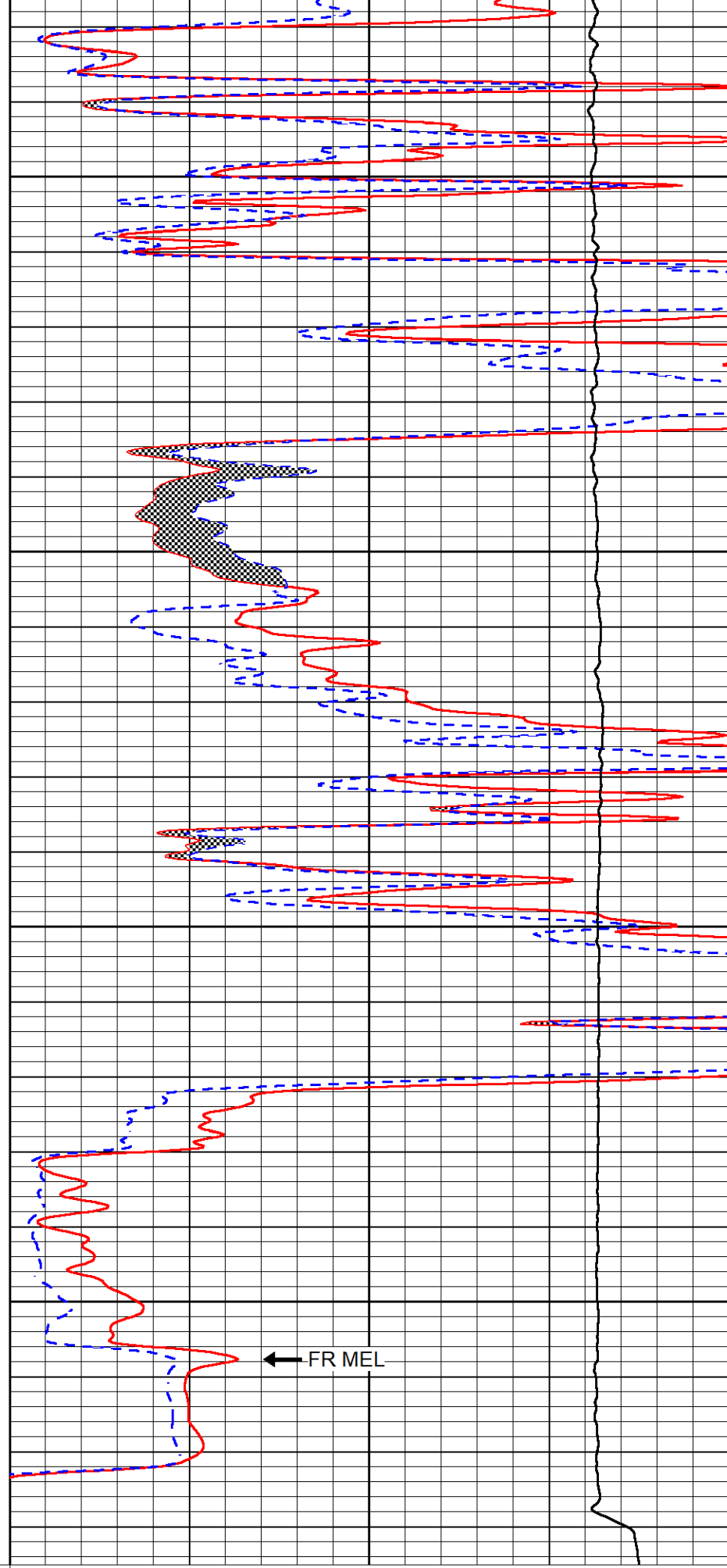
0.075 7.075

4650

4700

4750

4800



0 Micro Inverse 1 X 1 (Ohm-m) 40

0 Micro Normal 2" (Ohm-m) 40

10000 10000

2.875	mcal (in)	7.875
-200	sp (mV)	0

10000	Line Weight (lb)	0
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MIDWEST WIRELINE

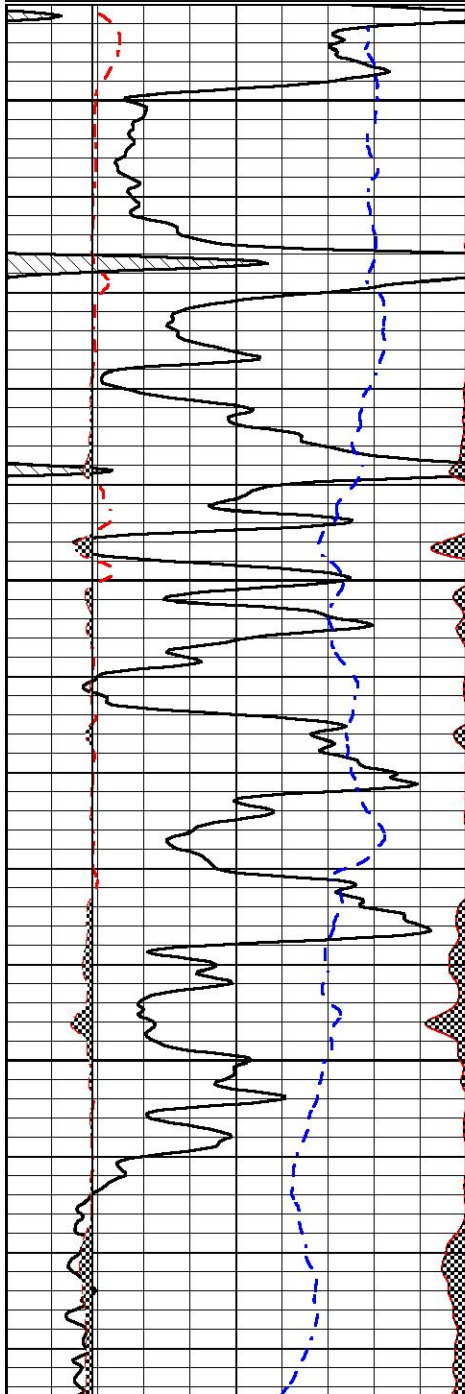
REPEAT SECTION

REPEAT PASS

Database File griffin_kay 2.db
Dataset Pathname stkml/pass2.1
Presentation Format _micro
Dataset Creation Wed Jun 22 05:08:14 2022
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

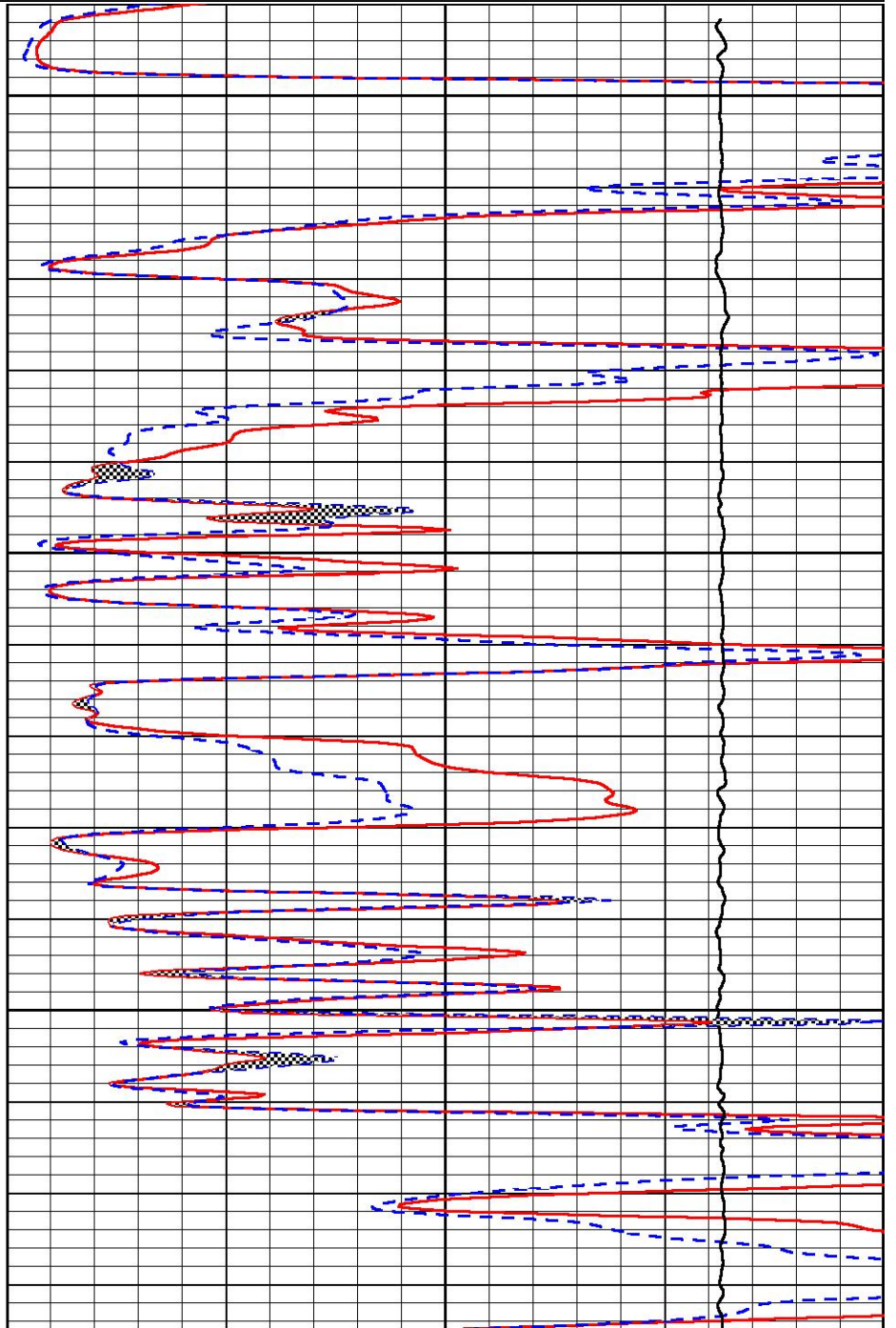
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

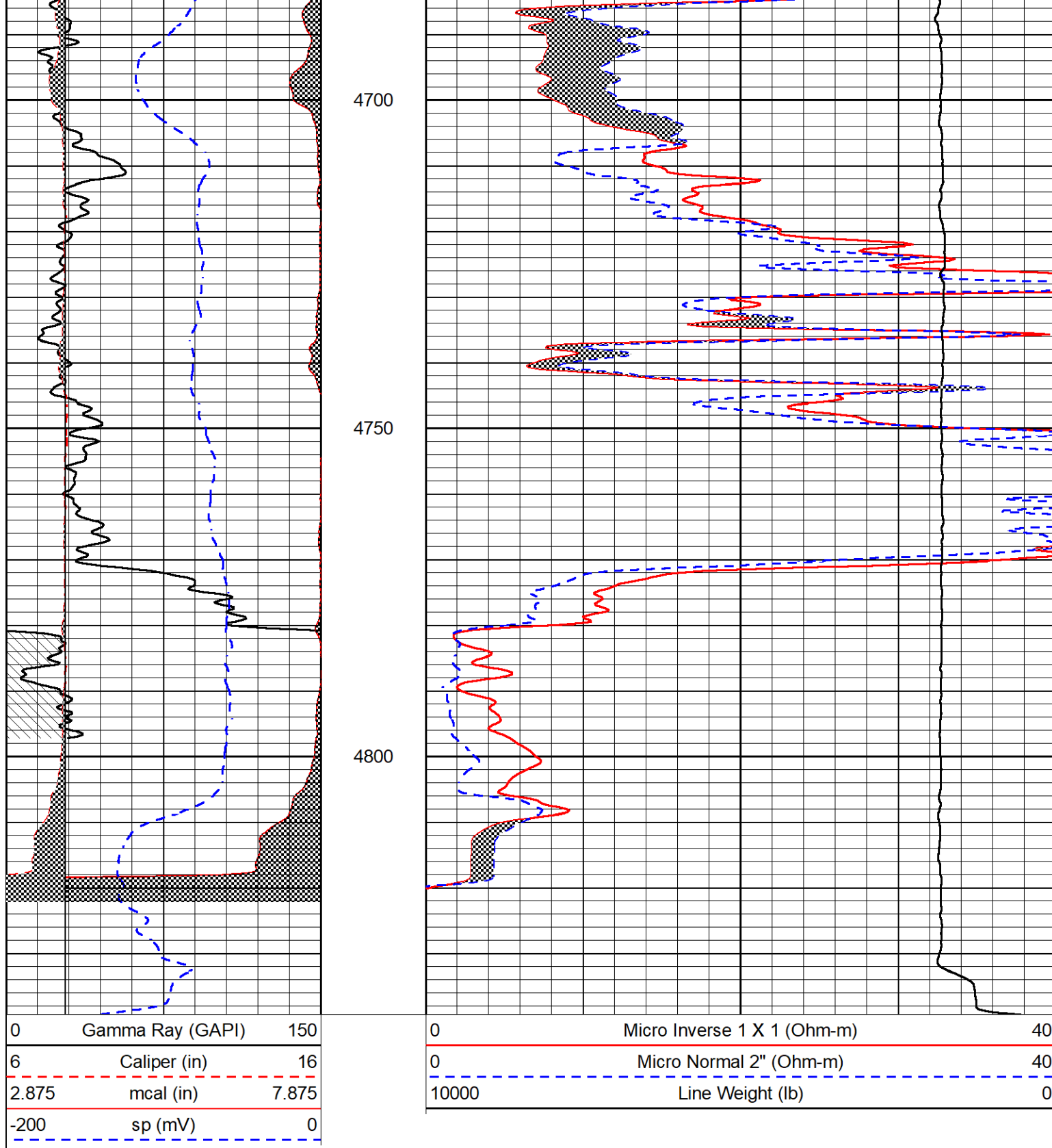


4550

4600

4650





Calibration Report

Database File griffin_kay 2.db
 Dataset Pathname stkml/pass3.13
 Dataset Creation Wed Jun 22 05:06:43 2022

Dual Induction Calibration Report

Serial-Model: 502 HT-M&W
 Surface Cal Performed: Wed Jun 22 04:33:34 2022

Readings

References

Results

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.454	-35.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.350	-11.000

Microlog Calibration Report							
Serial-Model: Performed:				401-PSIML Wed Jun 22 01:19:38 2022			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	23500.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	14000.0000
Caliper	1.0052	1.0858		5.0000	16.5000	in	142.7190
							-138.6500

Compensated Density Calibration Report					
Serial-Model:		302-02-M&W			
Source #:		20762B			
Master Calibration Performed:		Wed Jun 22 01:19:51 2022			
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4422.04	6163.44	cps
Aluminum	2.660	g/cc	835.14	3912.91	cps
Spine Angle = 74.75			Density/Spine Ratio = 0.524		
	Size		Reading		
Small Ring	8.00	in	0.53		
Large Ring	16.00	in	0.60		

Compensated Neutron Calibration Report						
Serial Number: Tool Model:			207-MW 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 Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps 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:	0.5500	GAPI/cps	

	Company	Griffin Management, LLC
	Well	Kay #2
	Field	
	County	Pratt
	State	Kansas