



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company Satchell Creek Petroleum LLC	
Well	Liggett A-1
Field	
County	Butler
State	Kansas
Company Satchell Creek Petroleum LLC	
Well	Liggett A-1
Field	
County	Butler
State	Kansas
Location:	API #: 15-015-24174-00-00
Permanent Datum	SE NW SE NE
Log Measured From	1915 FNL & 711 FEL
Drilling Measured From	SEC 34 TWP 25S RGE 7E
Elevation	1485
Other Services	CNL/CDL DIL/BHCS
Date	11/13/2022
Run Number	One
Depth Driller	3260
Depth Logger	3261
Bottom Logged Interval	3260
Top Log Interval	250
Casing Driller	8.625 @ 264
Casing Logger	266
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	4000
Density / Viscosity	9.6 49
pH / Fluid Loss	10.6 7.2
Source of Sample	Flowline
Rm @ Meas. Temp	0.95 @ 70
Rmt @ Meas. Temp	0.71 @ 70
Rmc @ Meas. Temp	1.28 @ 70
Source of Rmt / Rmc	Charts
Rm @ BHT	0.61 @ 109
Operating Rig Time	4 Hours
Max Rec. Temp. F	109
Equipment Number	P-24
Location	Hays
Recorded By	T. Martin
Witnessed By	Carl Jordan

<<< 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.

Rosalia, KS, 2 W to Satchell Creek Rd,
1 N, 1/4 E, 2/3 N, E into

Log Measured From: Kelly Bushing

12 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: Carl Jordan
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\satchell creek_liggett a-1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	109	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	-140	40		3261

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



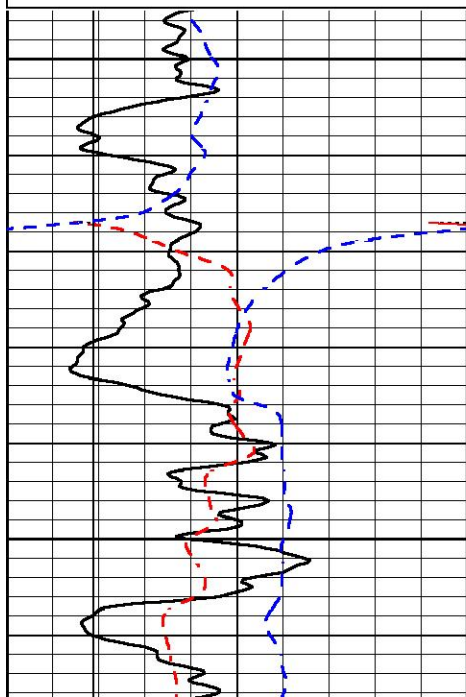
DETAIL SECTION

MAIN PASS

Database File satchell creek_liggett a-1.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Sun Nov 13 19:15:45 2022
Charted by Depth in Feet scaled 1:240

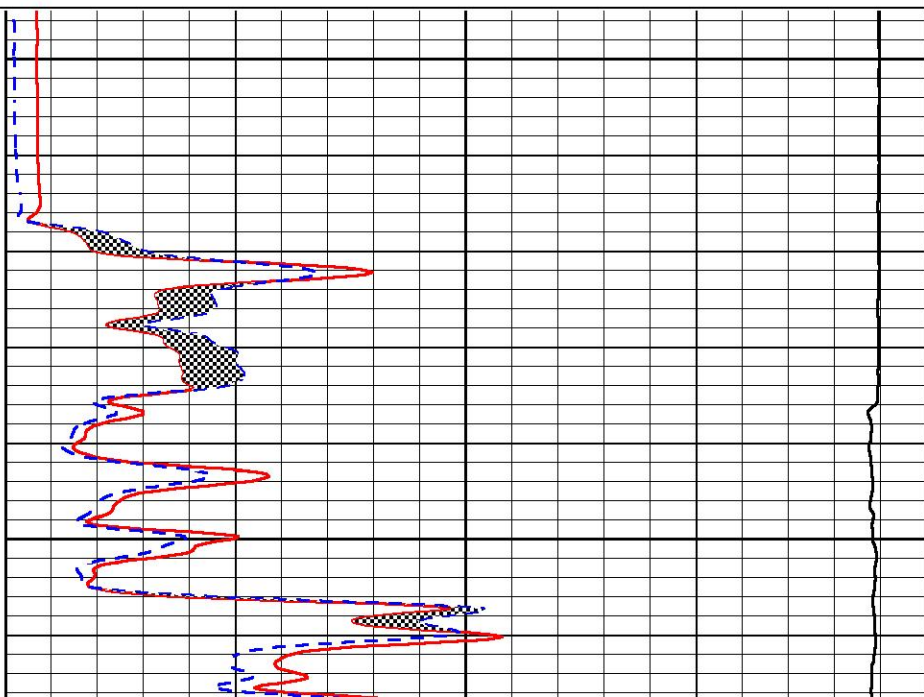
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

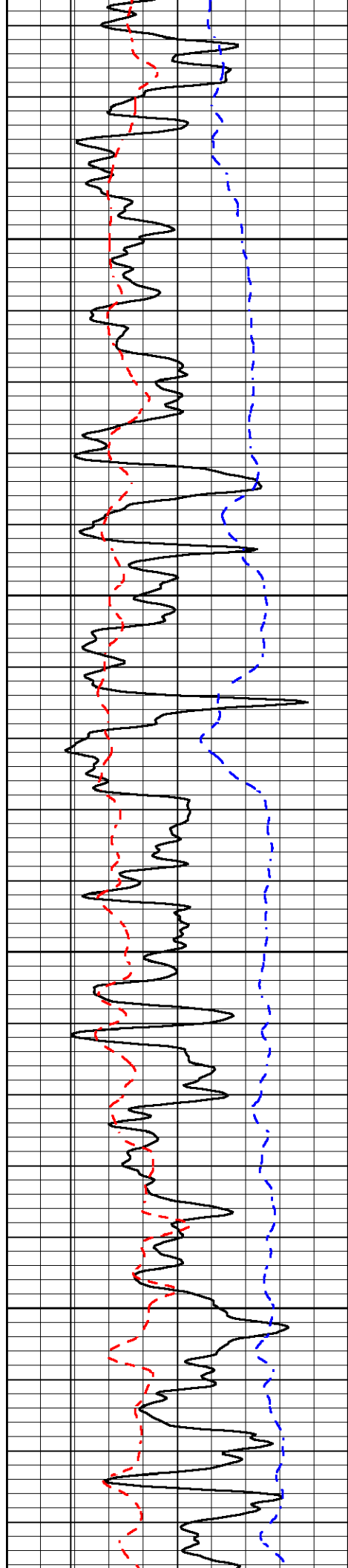
0	Micro Inverse 1 X 1 (Ohm-m)	100
0	Micro Normal 2" (Ohm-m)	100
10000	Line Weight (lb)	0



250

300



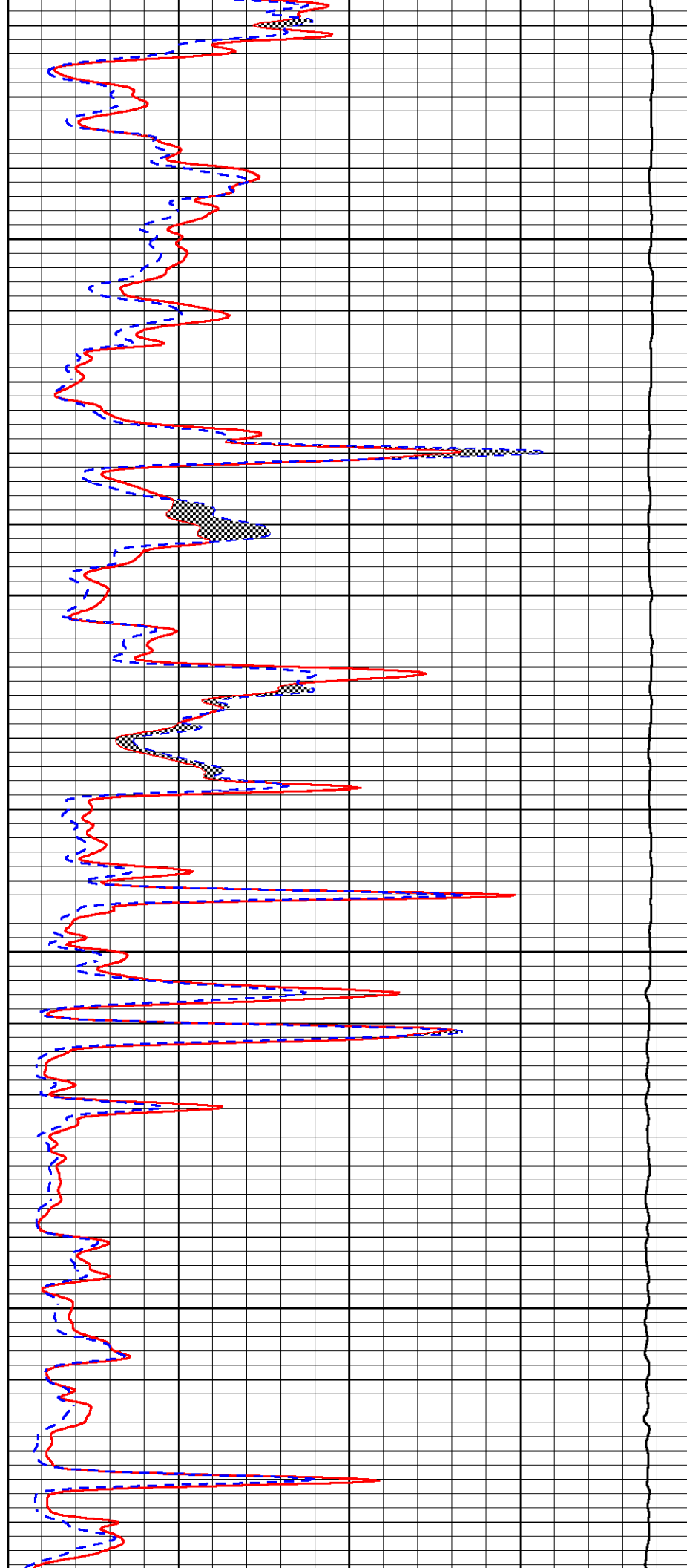


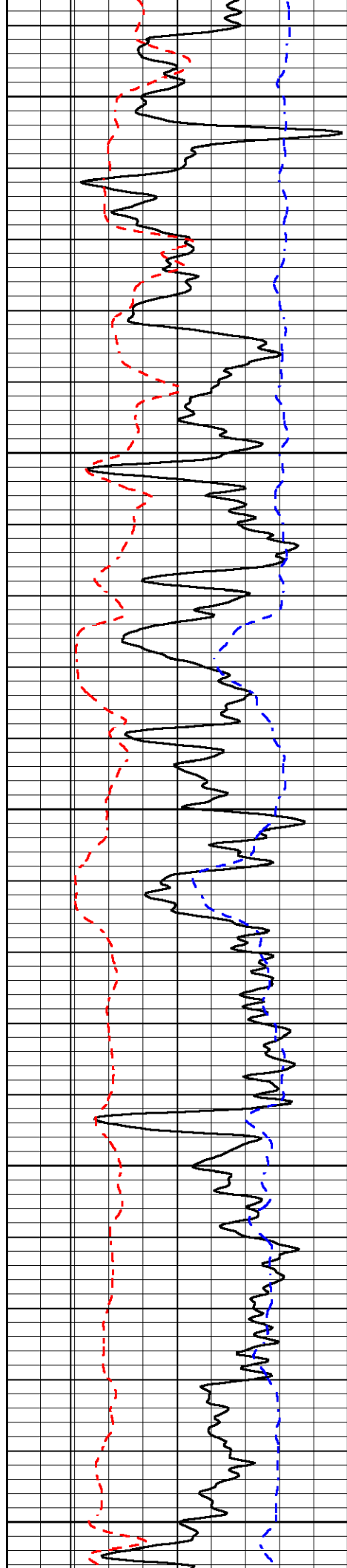
350

400

450

500





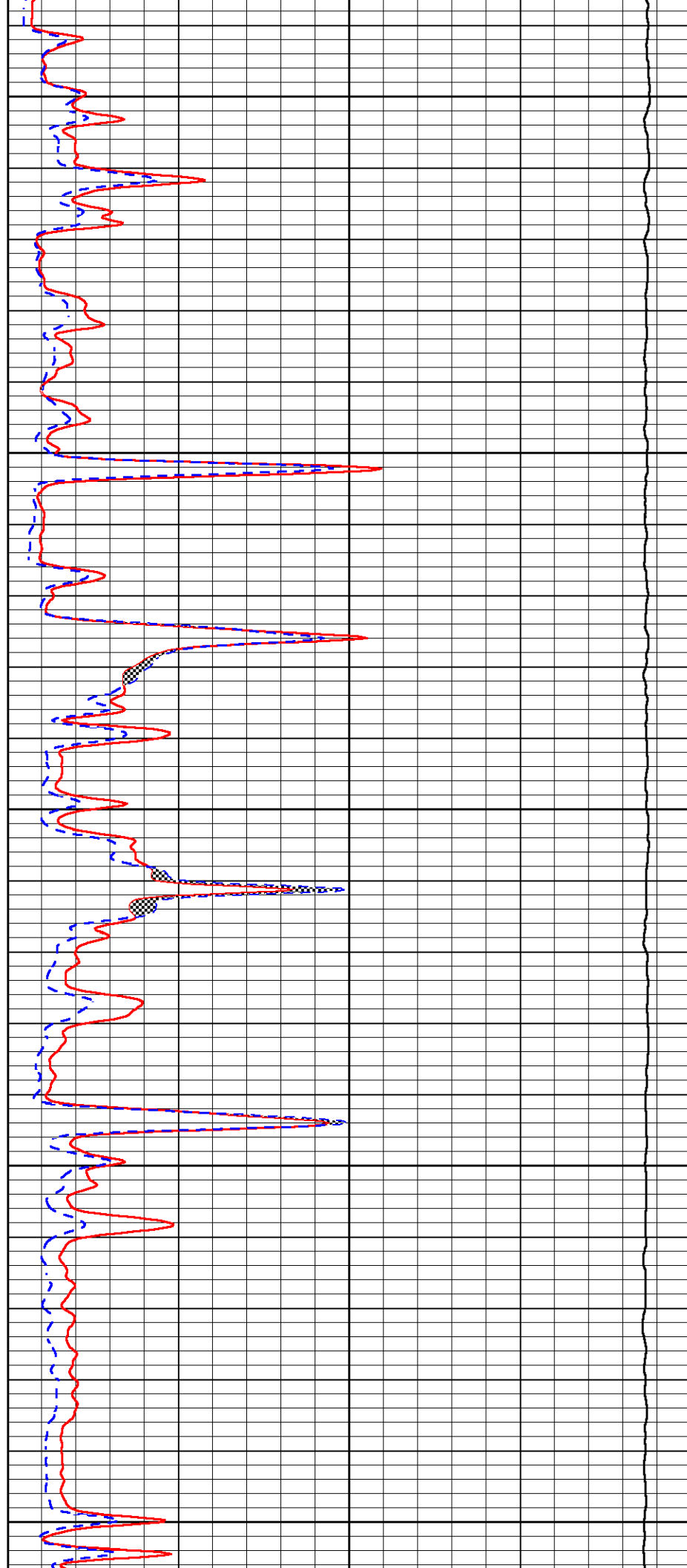
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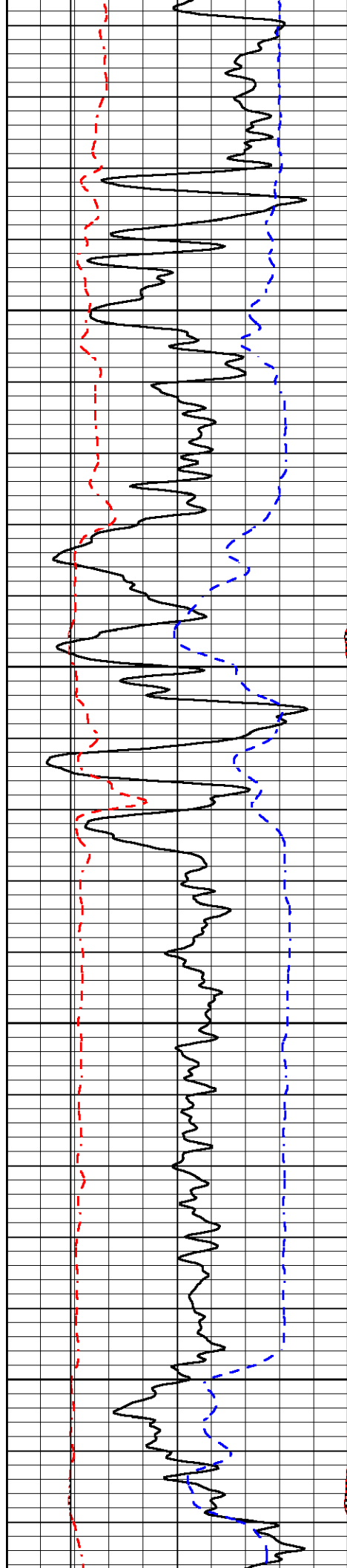
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650

700

750



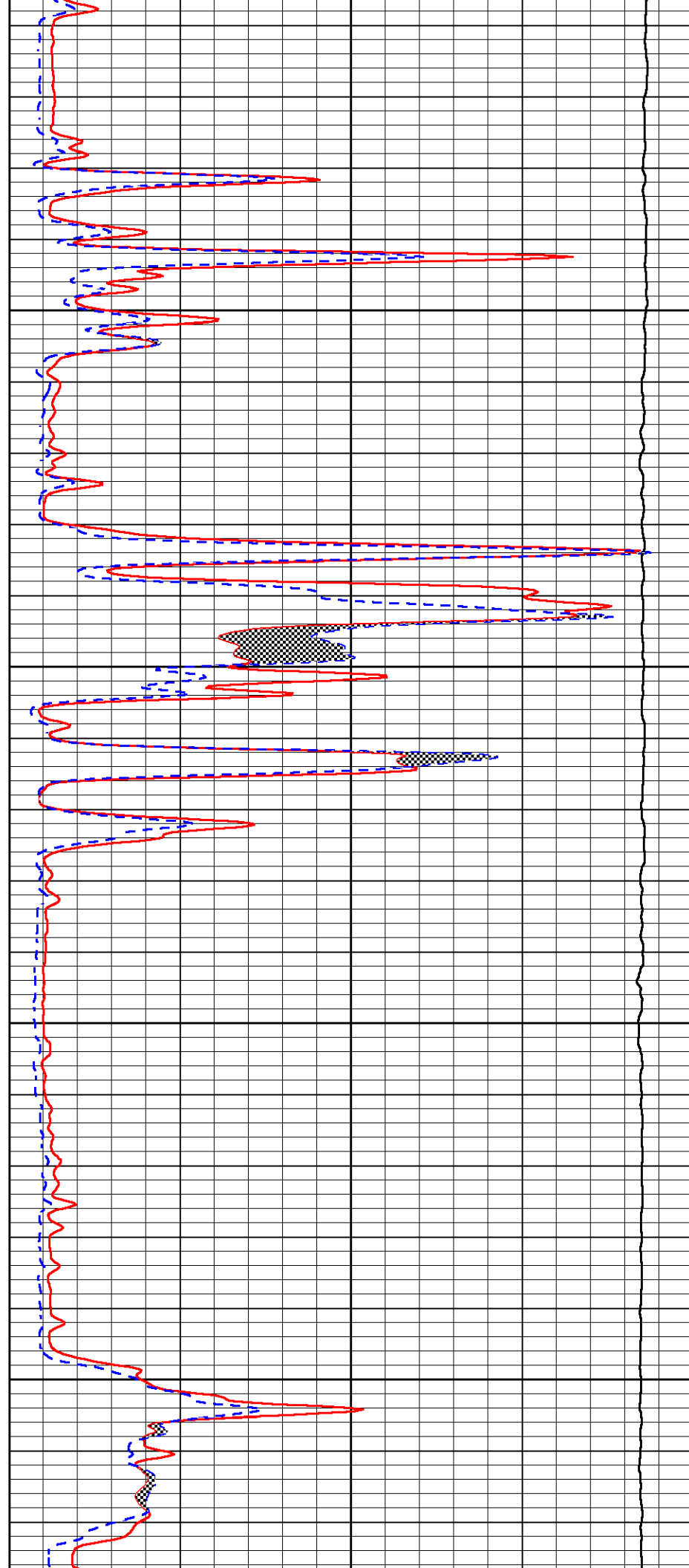


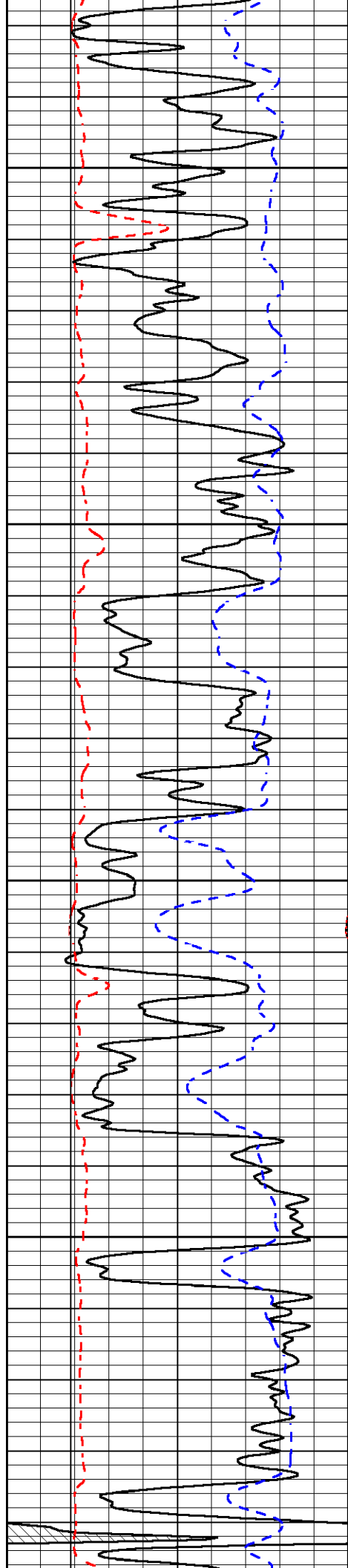
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850

900

950



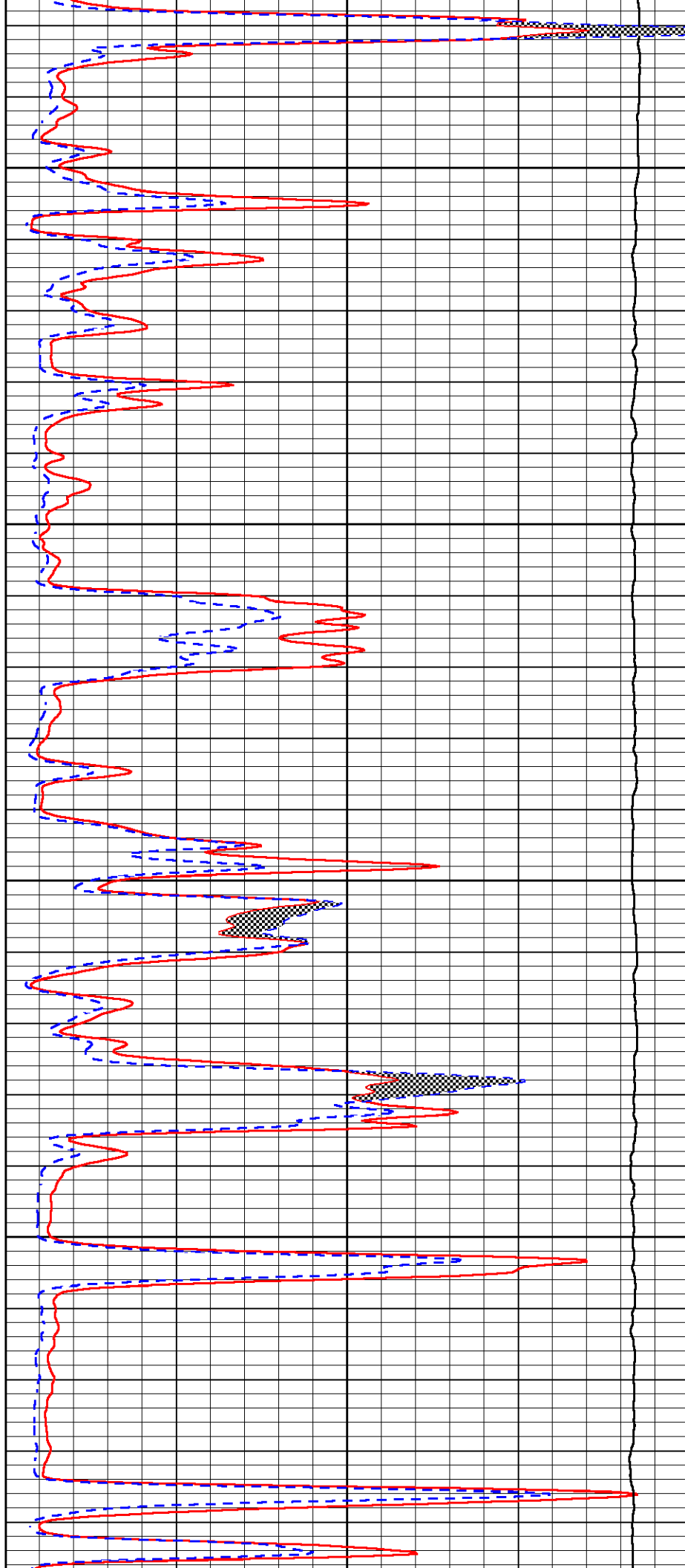


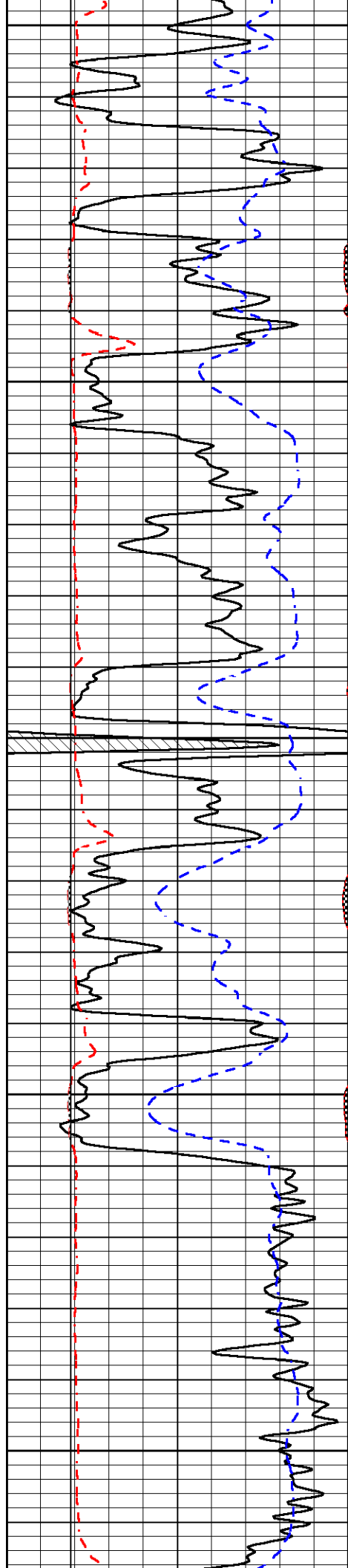
1000

1050

1100

1150





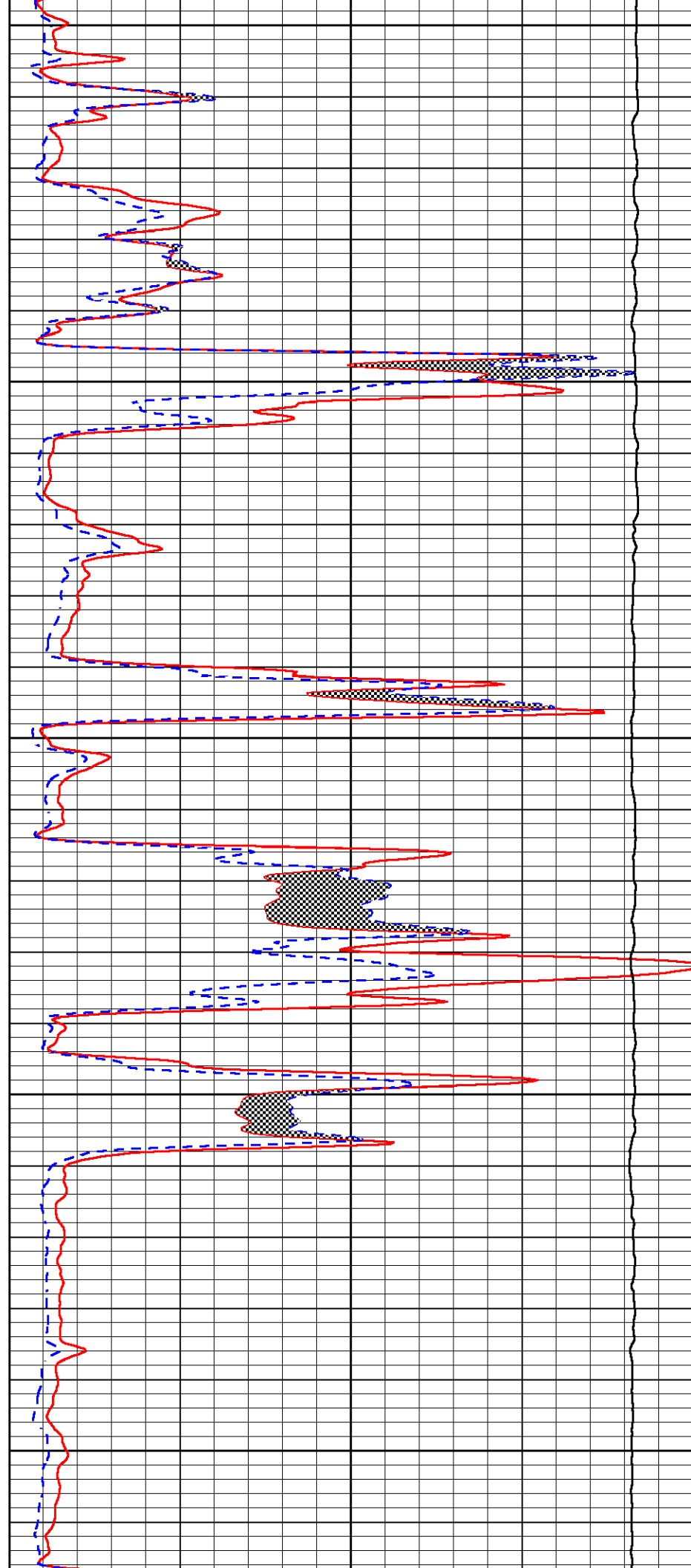
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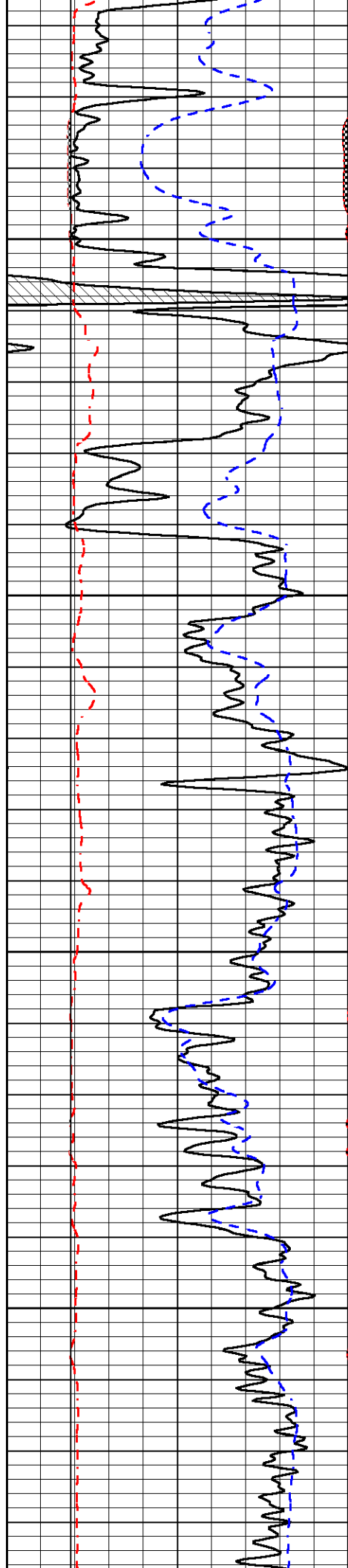
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1300

1350

1400



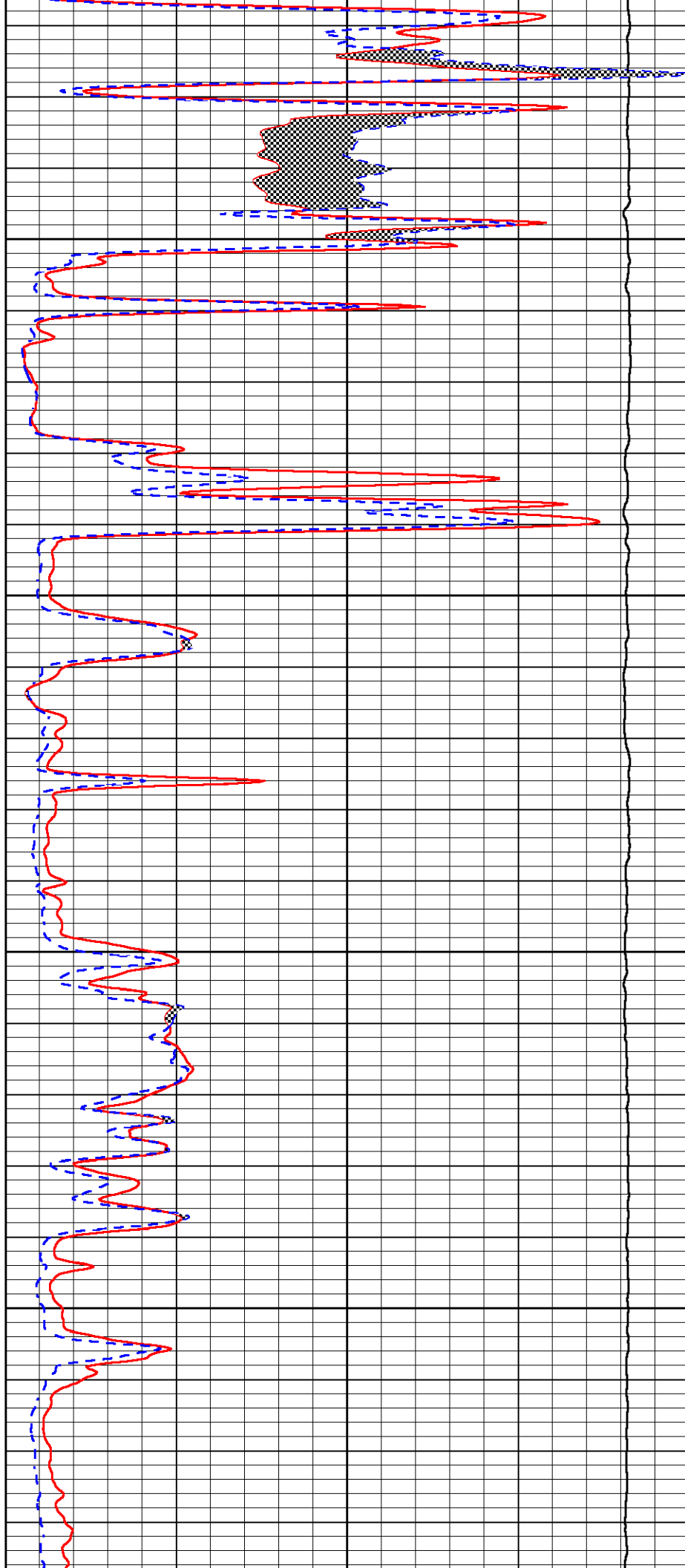


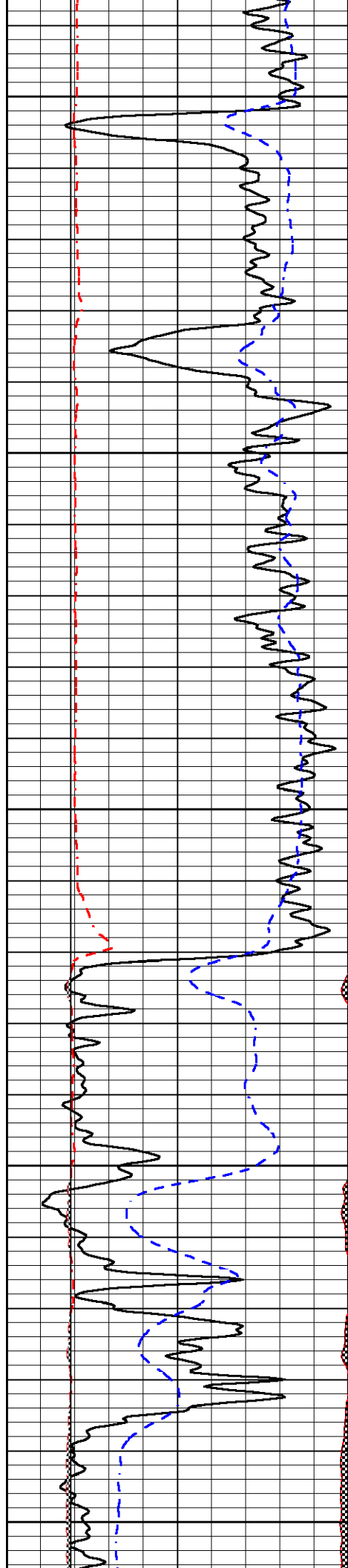
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1500

1550

1600





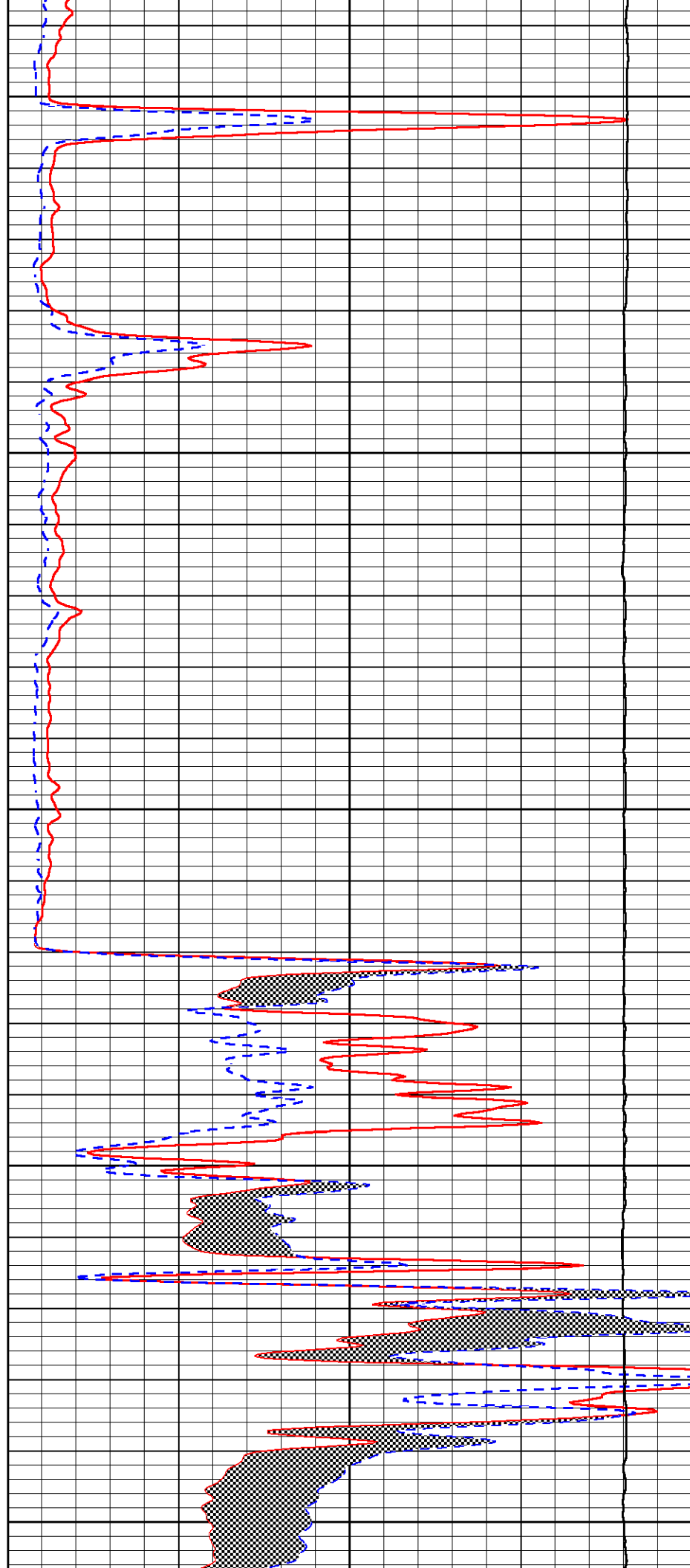
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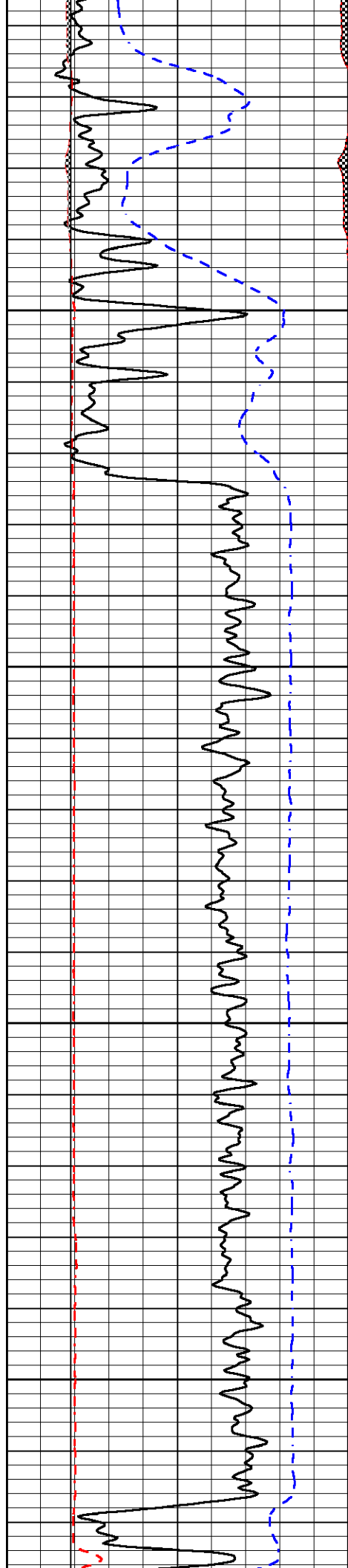
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1750

1800

1850



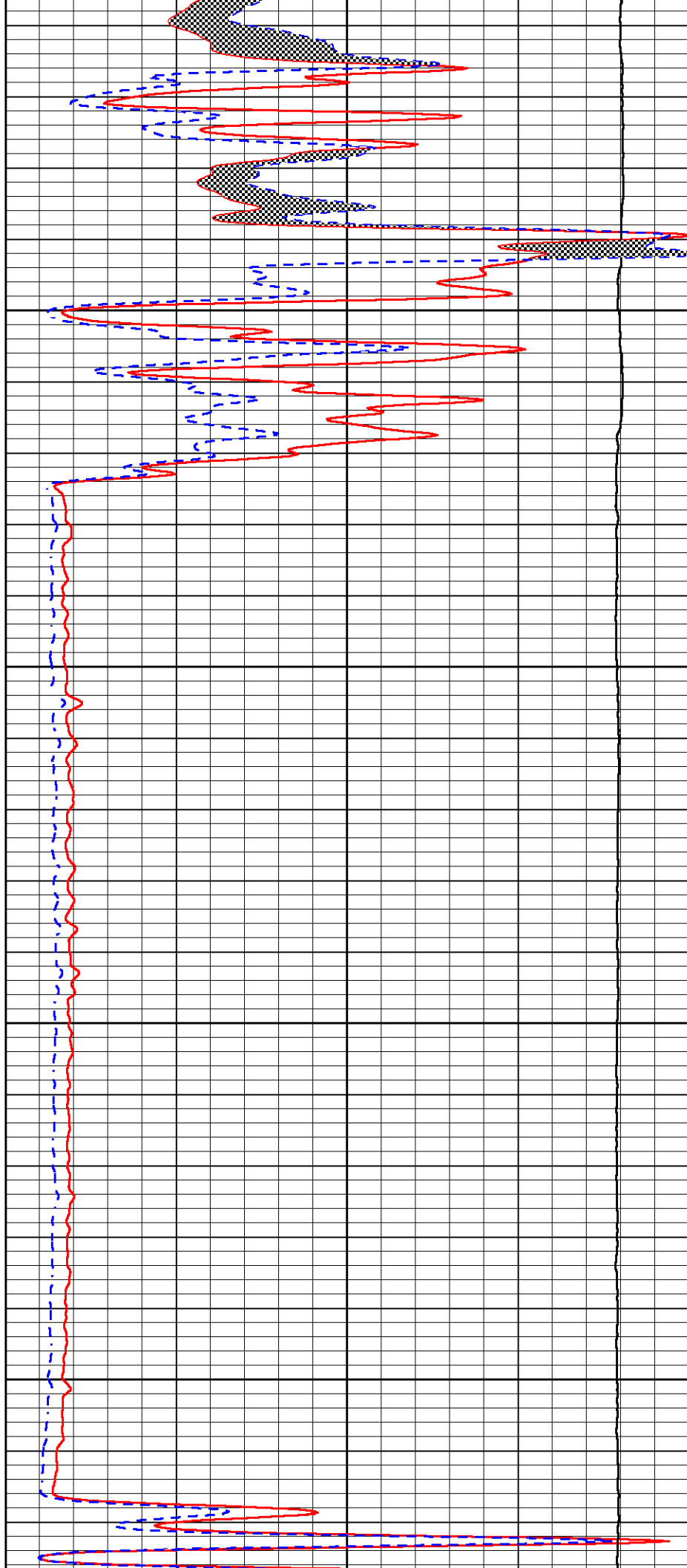


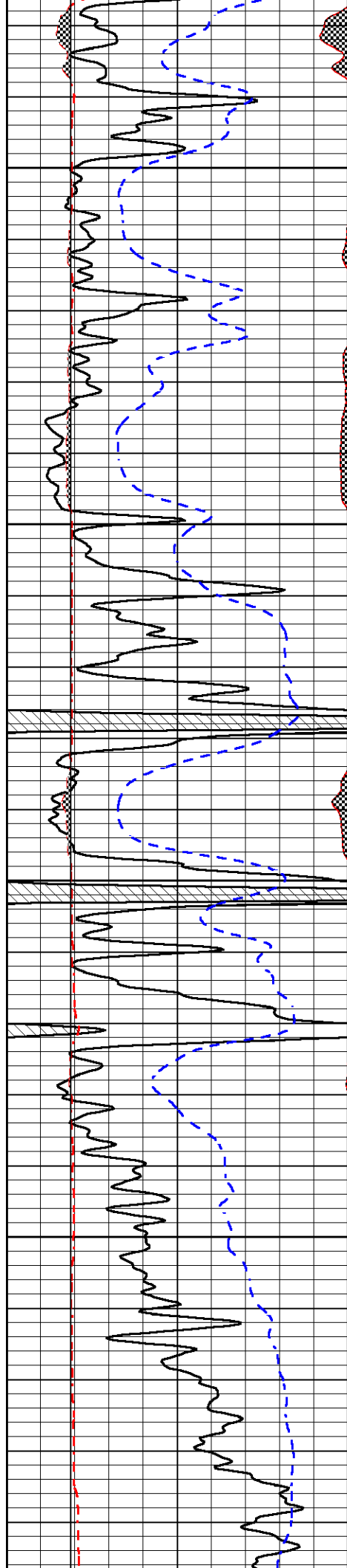
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1950

2000

2050



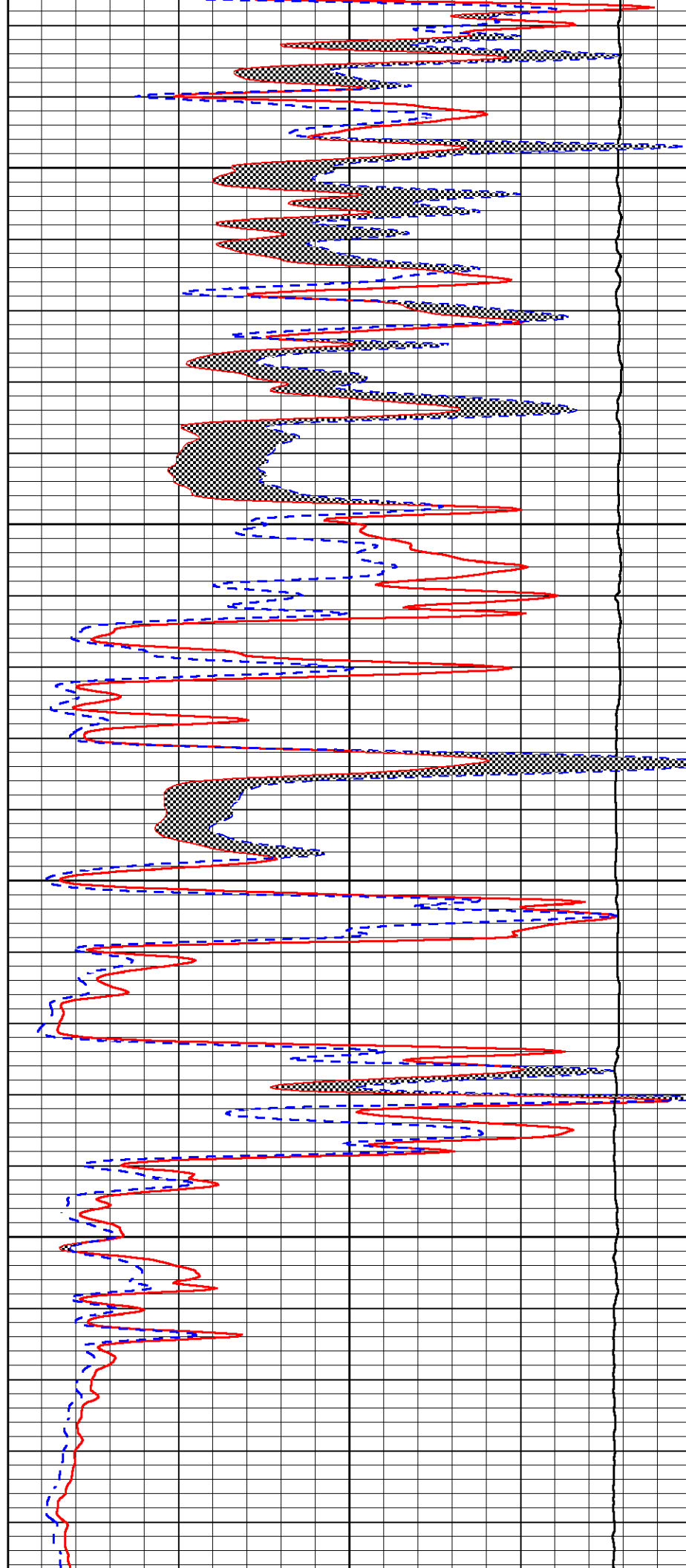


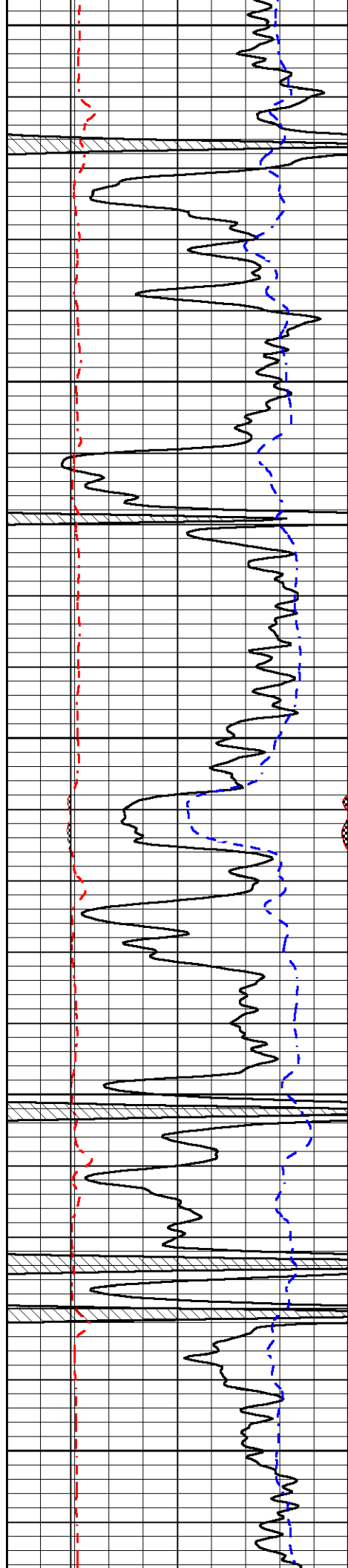
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2150

2200

2250





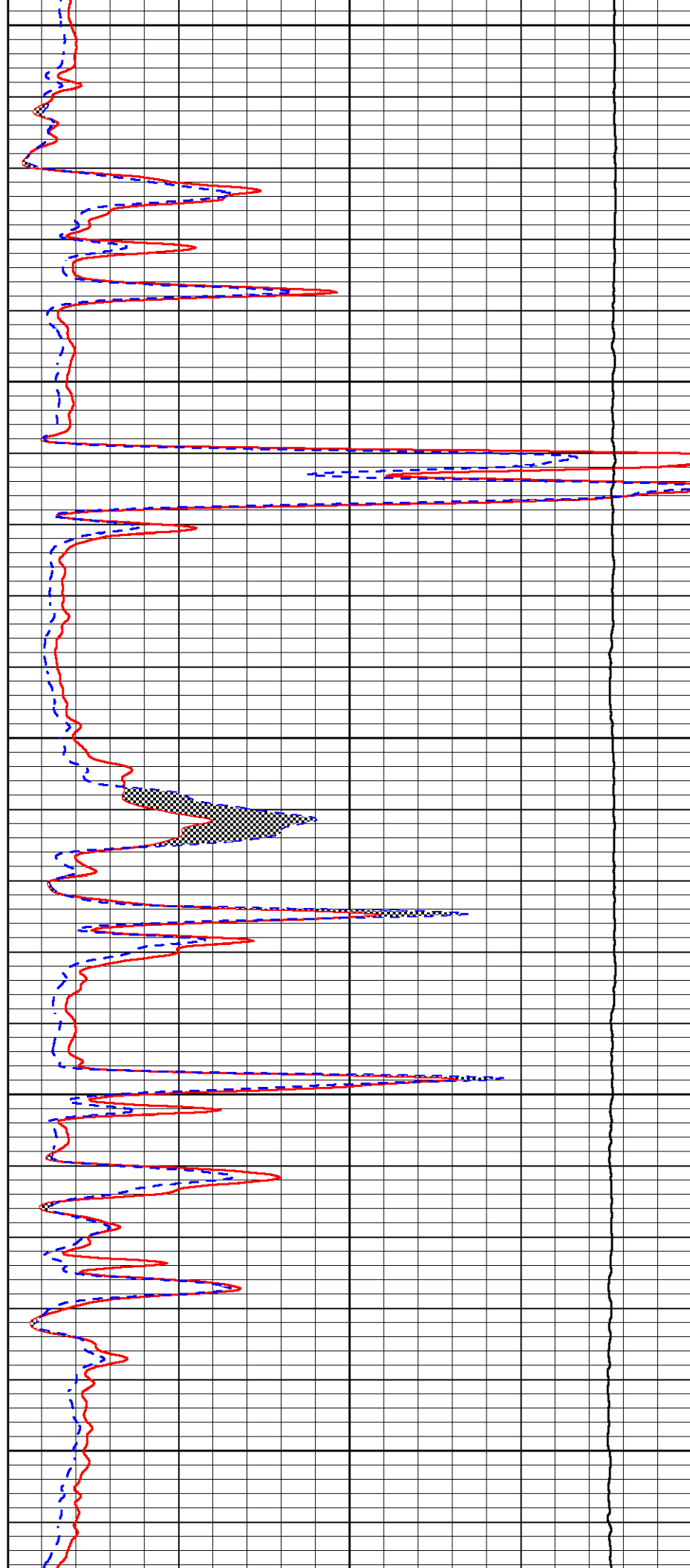
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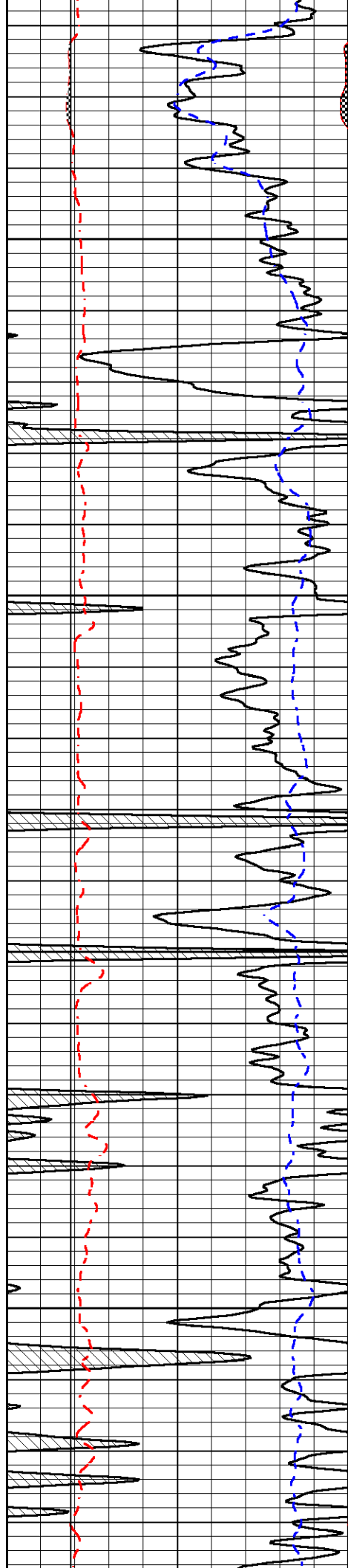
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2400

2450

2500



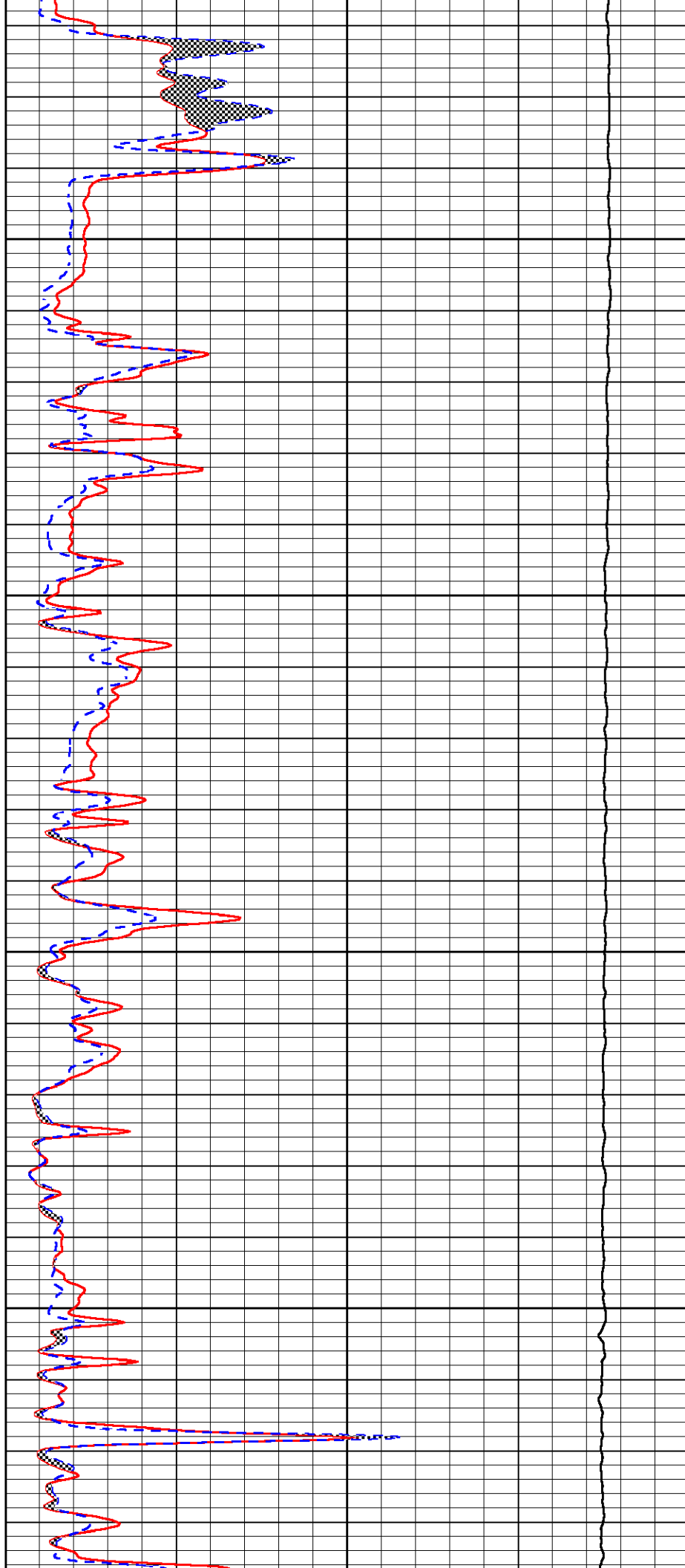


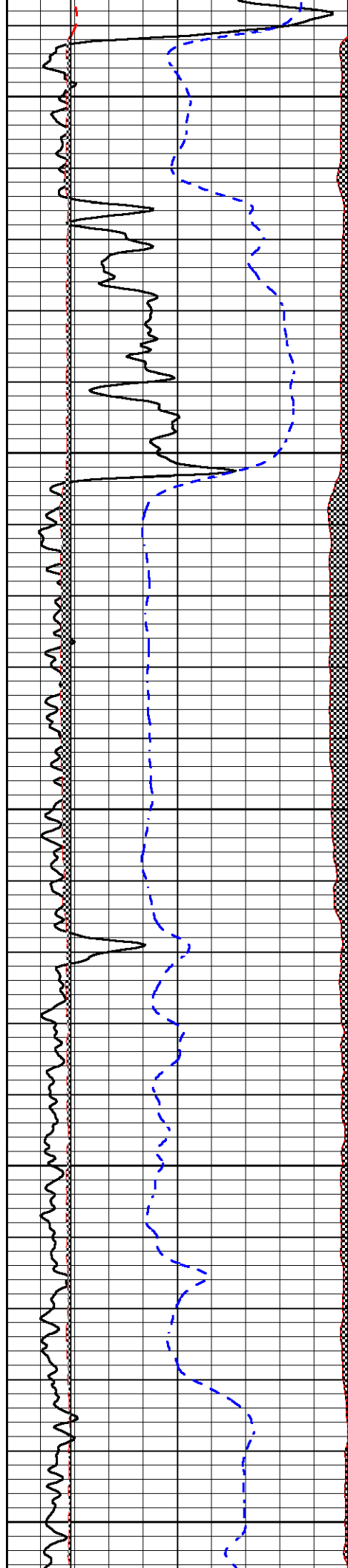
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2600

2650

2700





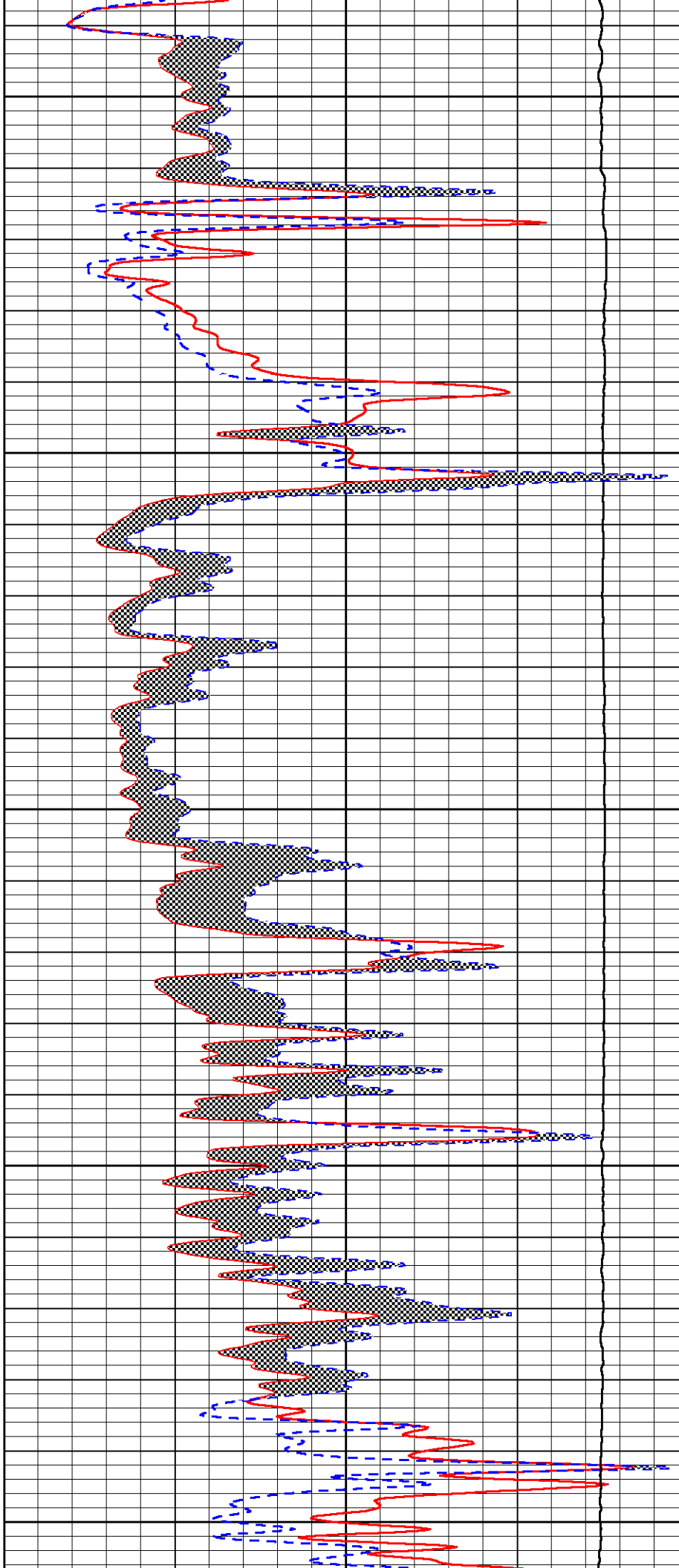
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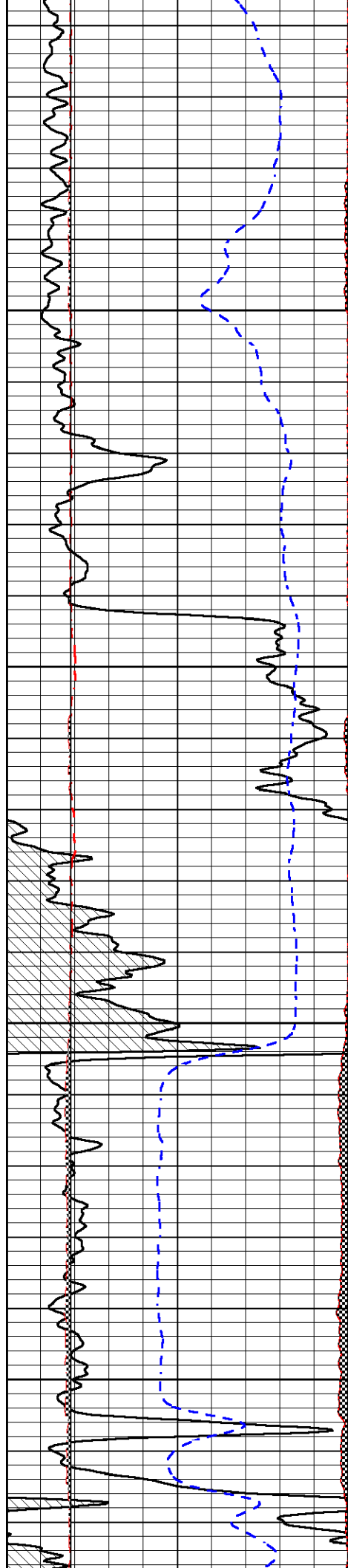
2800

2850

2900

2950



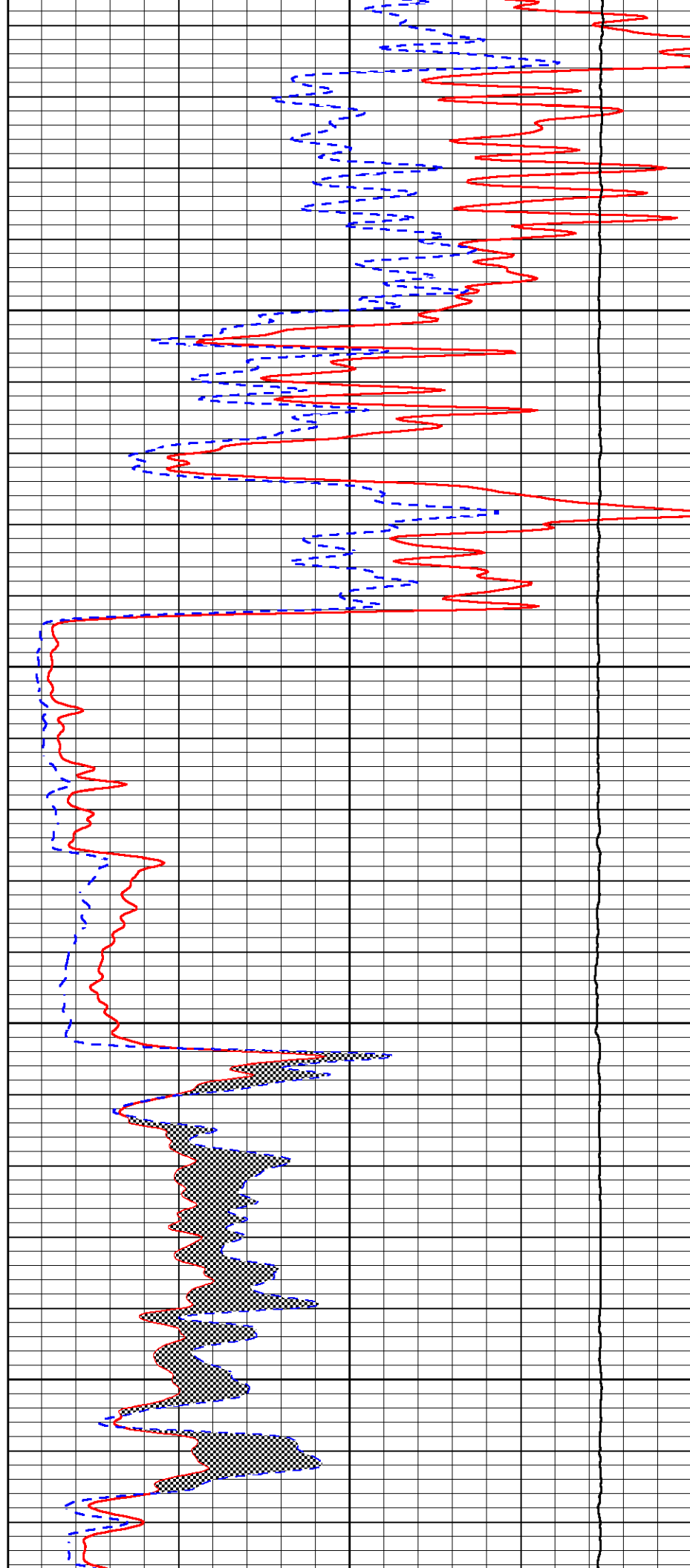


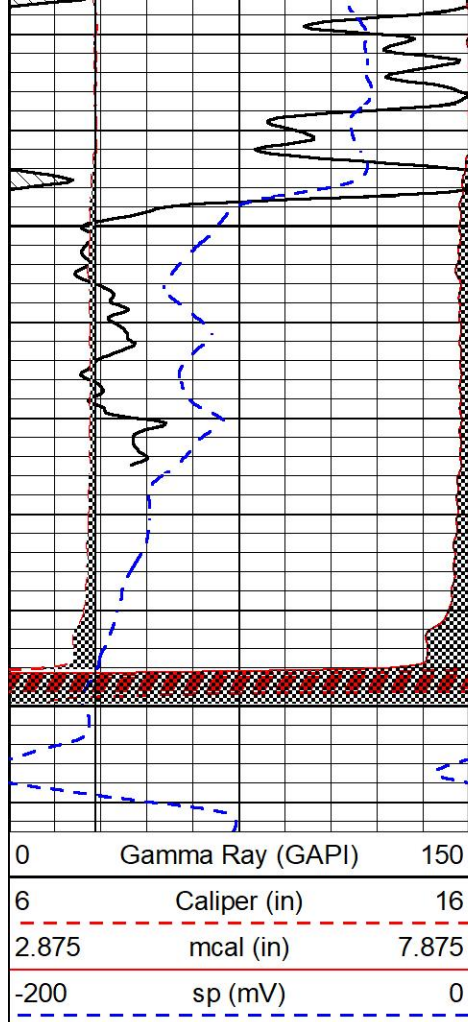
3000

3050

3100

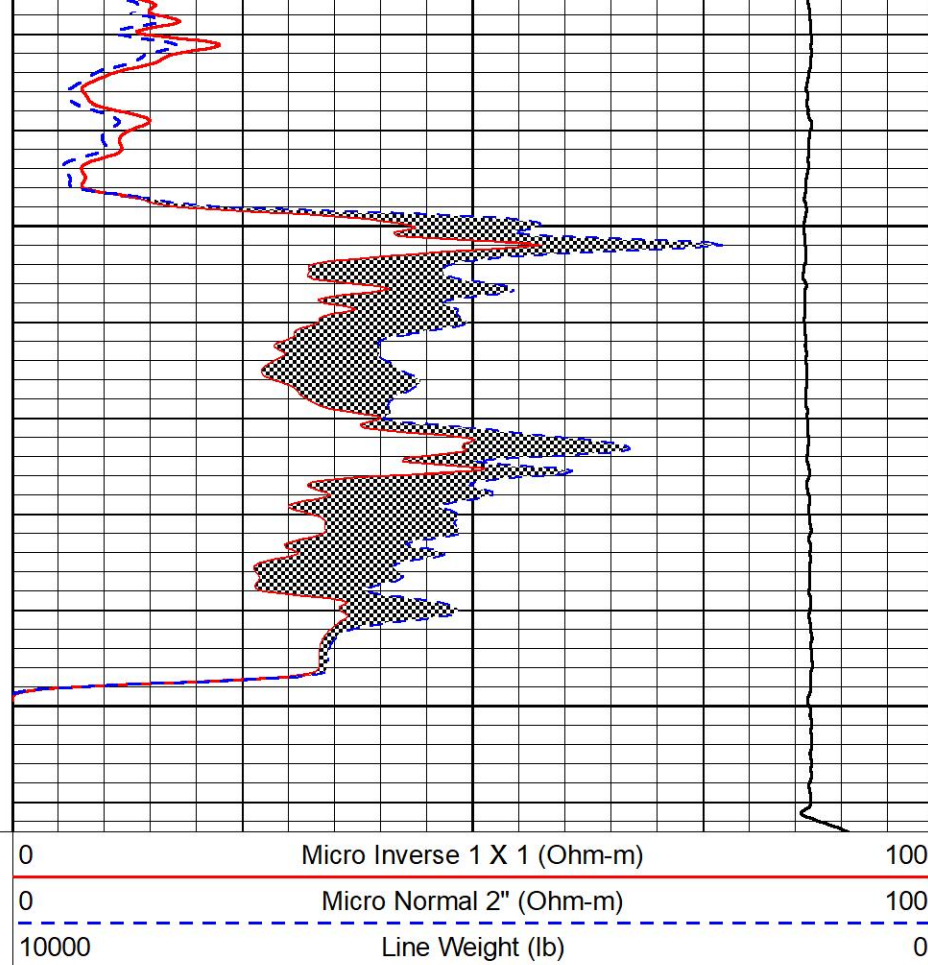
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3200

3250

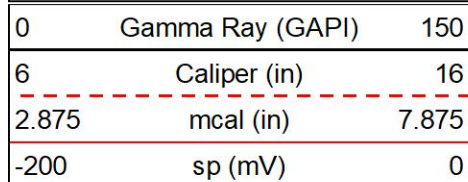


MIDWEST WIRELINE

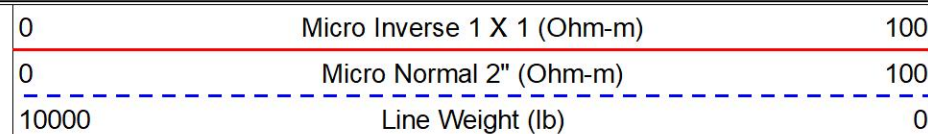
REPEAT SECTION

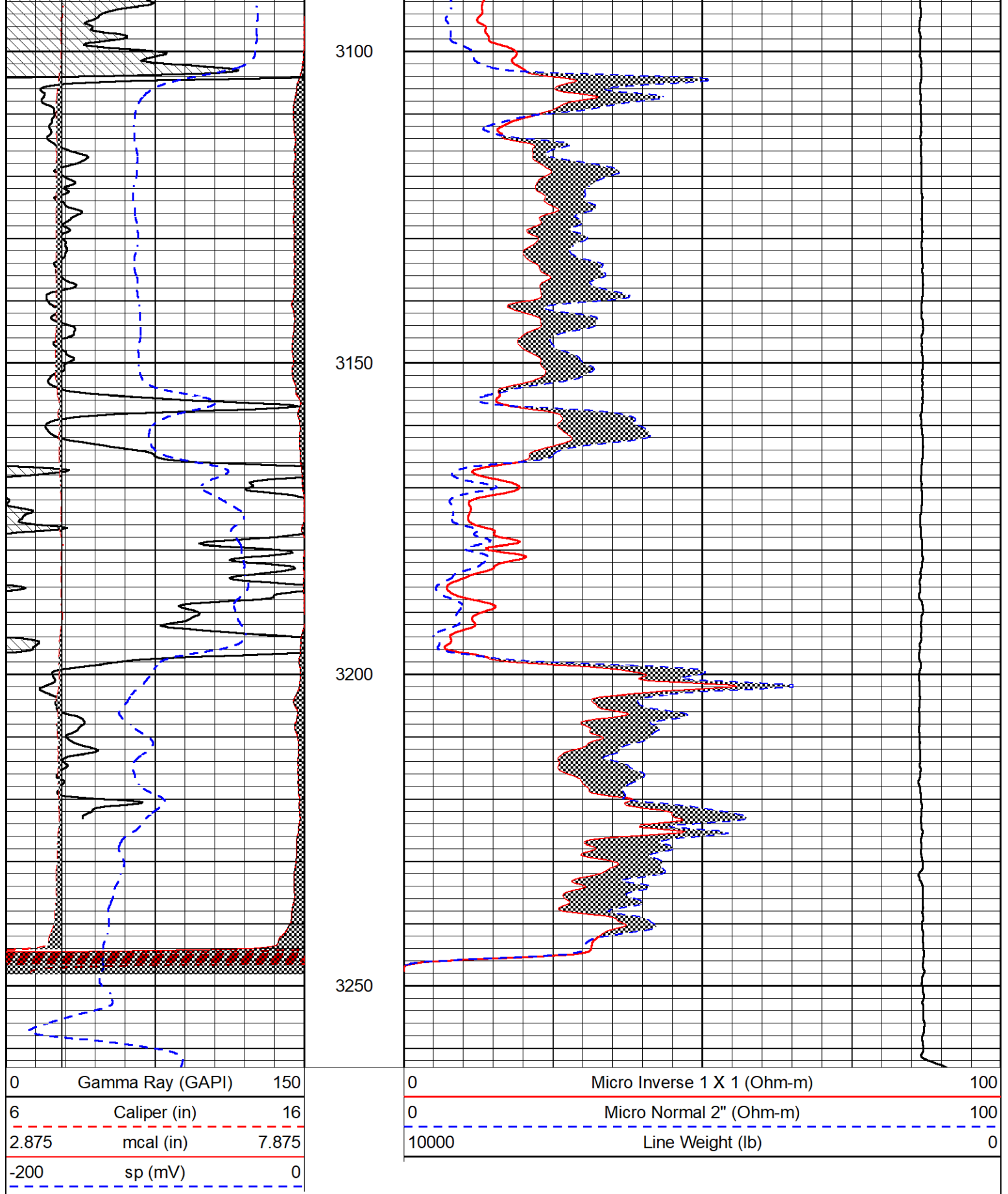
REPEAT PASS

Database File satchell creek_liggett a-1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _micro
 Dataset Creation Sun Nov 13 18:42:57 2022
 Charted by Depth in Feet scaled 1:240



3050





Calibration Report

Database File satchell creek_liggett a-1.db
Dataset Pathname StkMI/pass3.1
Dataset Creation Sun Nov 13 19:15:45 2022

Serial-Model:502 HT-M&W

Surface Cal Performed:Mon Nov 7 15:53:48 2022

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	255.800	mmho/m	0.454	-31.000
Medium	113.335	1585.690	0.000	255.800	mmho/m	0.350	-11.000

Microlog Calibration Report

Serial-Model:401-PSIML

Performed:Mon Nov 7 15:53:59 2022

Readings			References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	16000.0000	-0.4000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	15500.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	98.0000	-93.2000

Compensated Density Calibration Report

Serial-Model:305-24-M&W

Source #:20762B

Master Calibration Performed:Mon Jun 20 16:54:11 2022

Master Calibration							
Density				Far Detector		Near Detector	
Magnesium	1.755	g/cc		4771.35		5494.27	cps
Aluminum	2.650	g/cc		908.54		3539.54	cps
Spine Angle = 75.15				Density/Spine Ratio = 0.522			
Size				Reading			
Small Ring	4.00	in		1.74			
Large Ring	14.00	in		1.38			

Compensated Neutron Calibration Report

Serial Number:207-MW

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		Target
1)	Short Space		cps	
	Long Space		cps	pu
2)	Short Space		cps	

	Long Space	cps	pu
3)	Short Space Long Space	cps 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:		106	
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
Sensitivity:		0.5500	GAPI/cps
 Company Satchell Creek Petroleum LLC Well Liggett A-1 Field County Butler State Kansas			