



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Curts Oil Operations LLC		Company Curts Oil Operations LLC	
Well	5-H #1	Well	5-H #1
Field	Beaver South	Field	Beaver South
County	Barton	County	Barton
State	Kansas	State	Kansas
Location: API #: 15-009-26316-00-00		Other Services	
1993 FNL & 1840 FEL		CNL/CDL DIL/BHCS	
Permanent Datum	Ground Level	Elevation	1899
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
SEC 29 TWP 16S RGE 12W			
Date	12/6/2021		
Run Number	One		
Depth Driller	3470		
Depth Logger	3474		
Bottom Logged Interval	3473		
Top Log Interval	00		
Casing Driller	8.625 @ 401		
Casing Logger	399		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6200		
Density / Viscosity	9.2 51		
pH / Fluid Loss	10.5 5.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.35 @ 71		
Rmt @ Meas. Temp	.26 @ 71		
Rmc @ Meas. Temp	.47 @ 71		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.22 @ 111		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	111		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Clayton Camozzi		

<<< 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.

Beaver Kansas
South Into Across from Elevator

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Clayton Camozzi
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\curts_oil_5h_1.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	111	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	1010	50	Off	3474



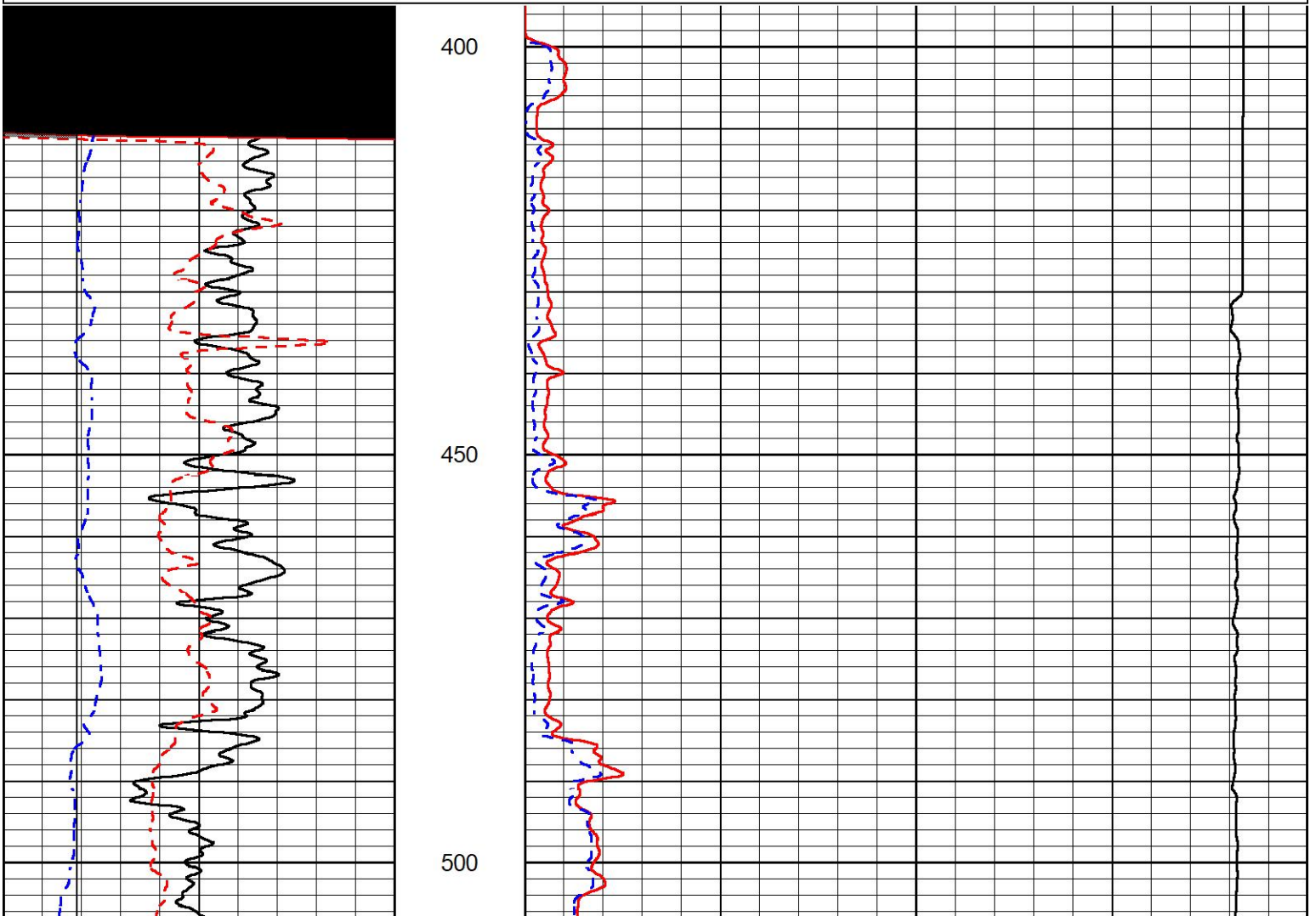
MIDWEST WIRELINE

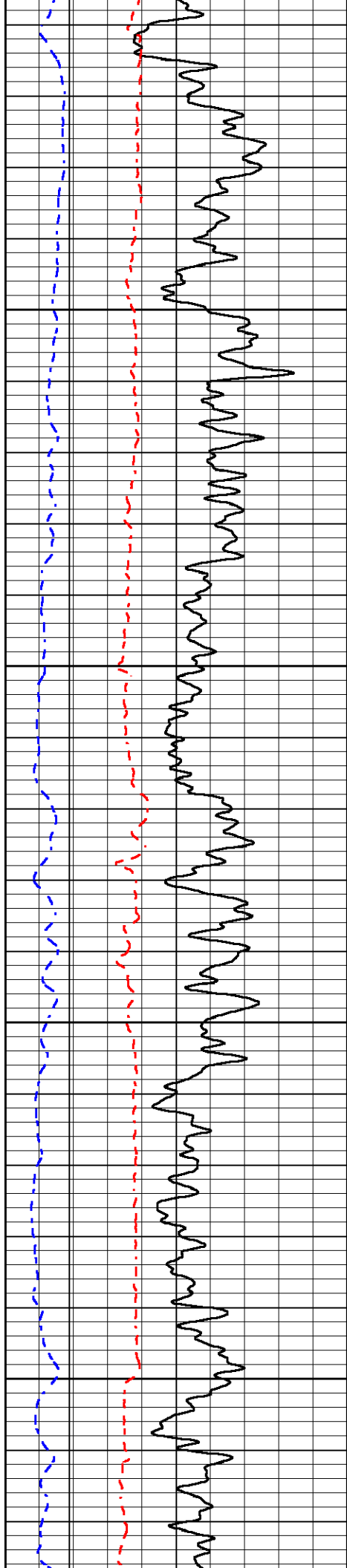
DETAIL SECTION

MAIN PASS

Database File curts_oil_5h_1.db
Dataset Pathname stackml/pass4.1
Presentation Format _micro
Dataset Creation Mon Dec 06 16:42:05 2021
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Caliper (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcil (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			



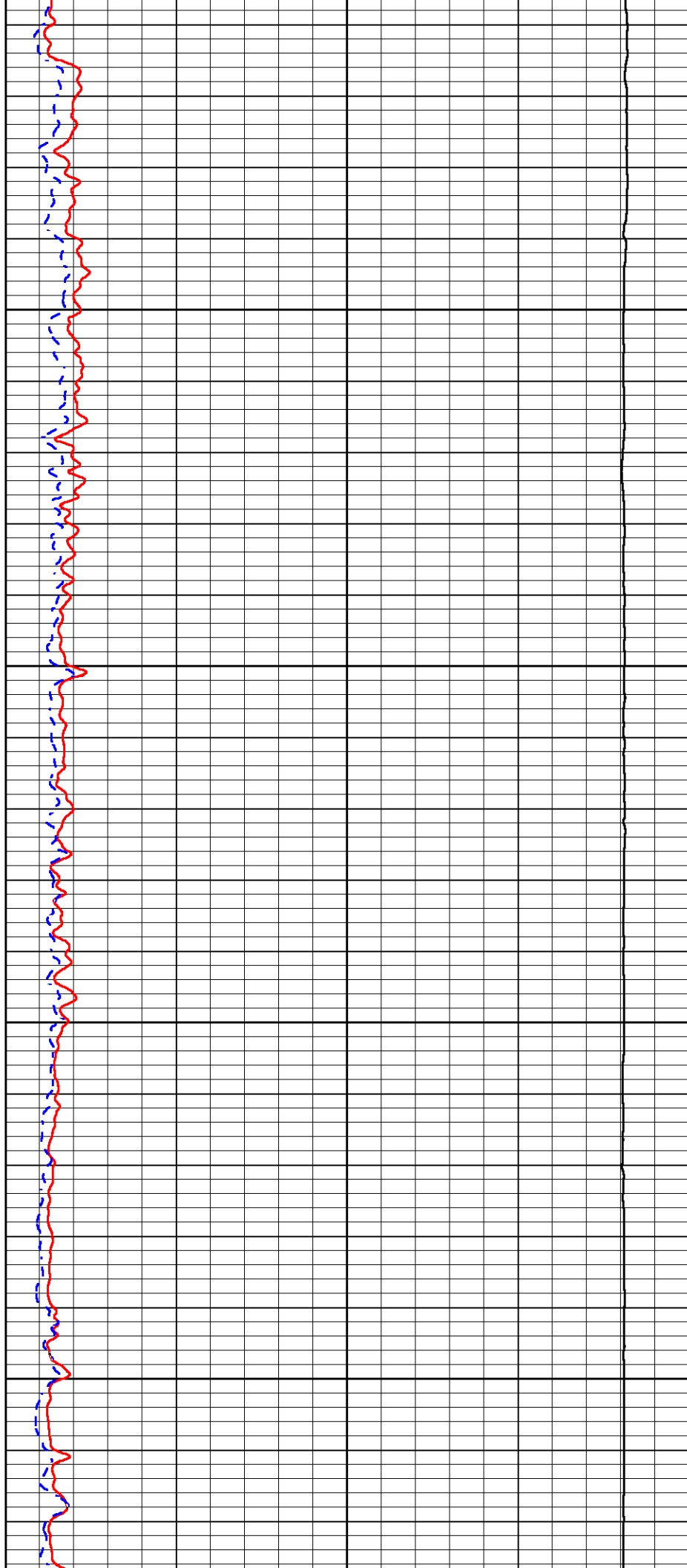


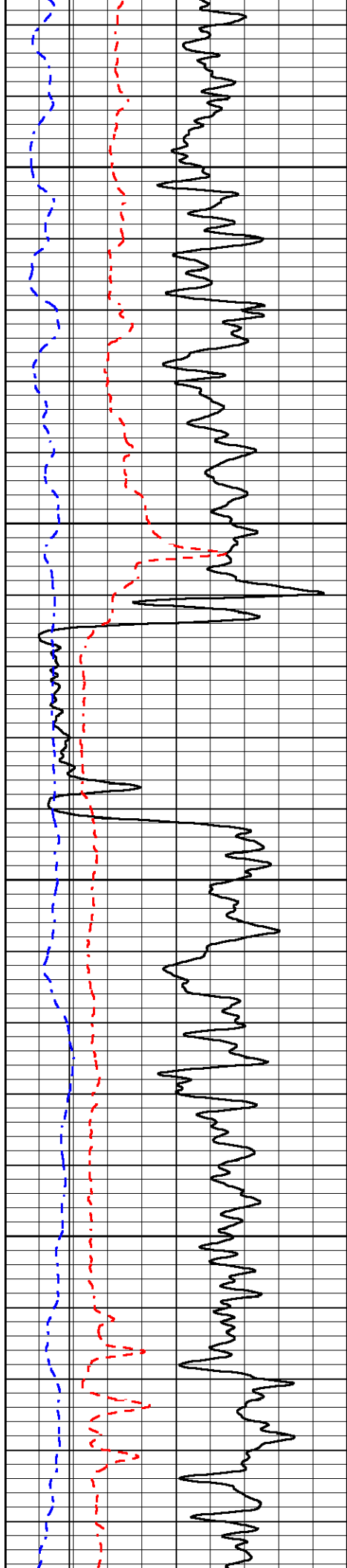
550

600

650

700



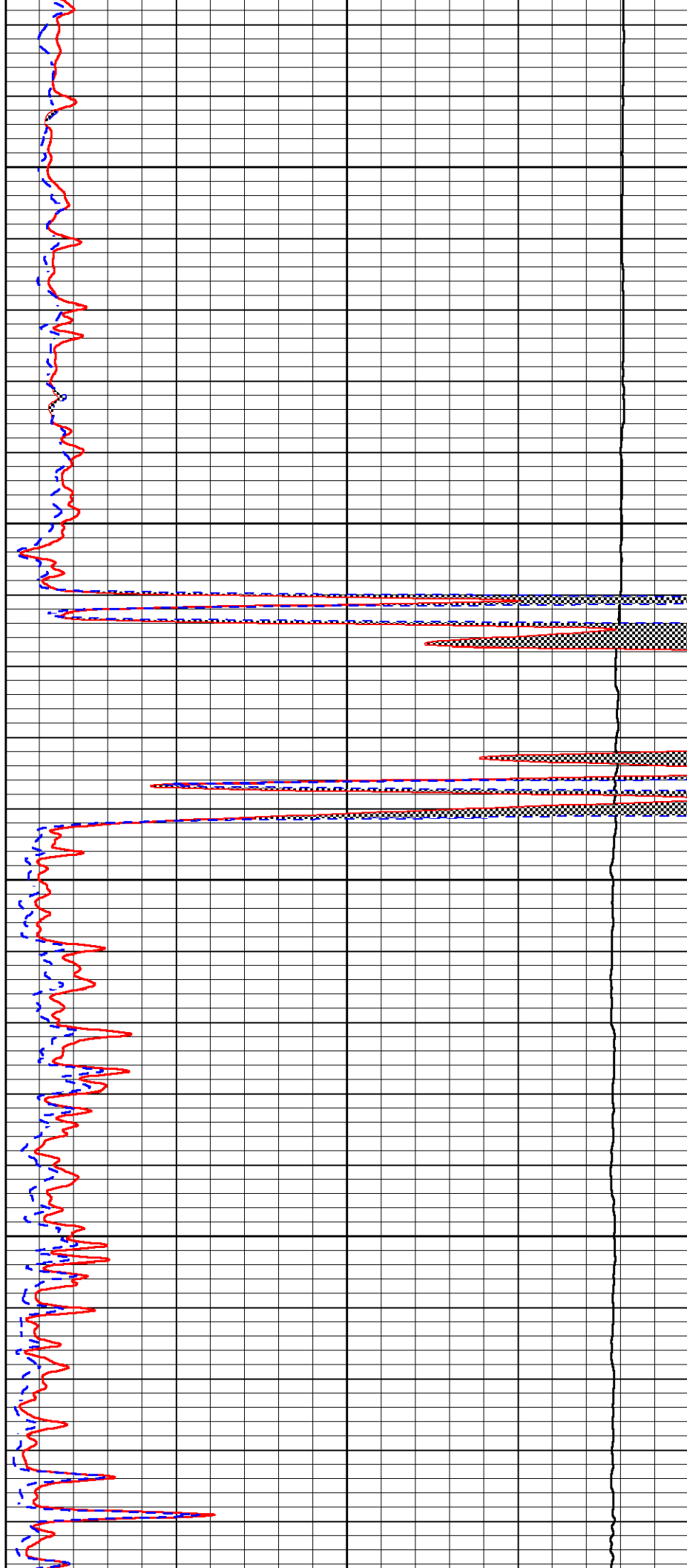


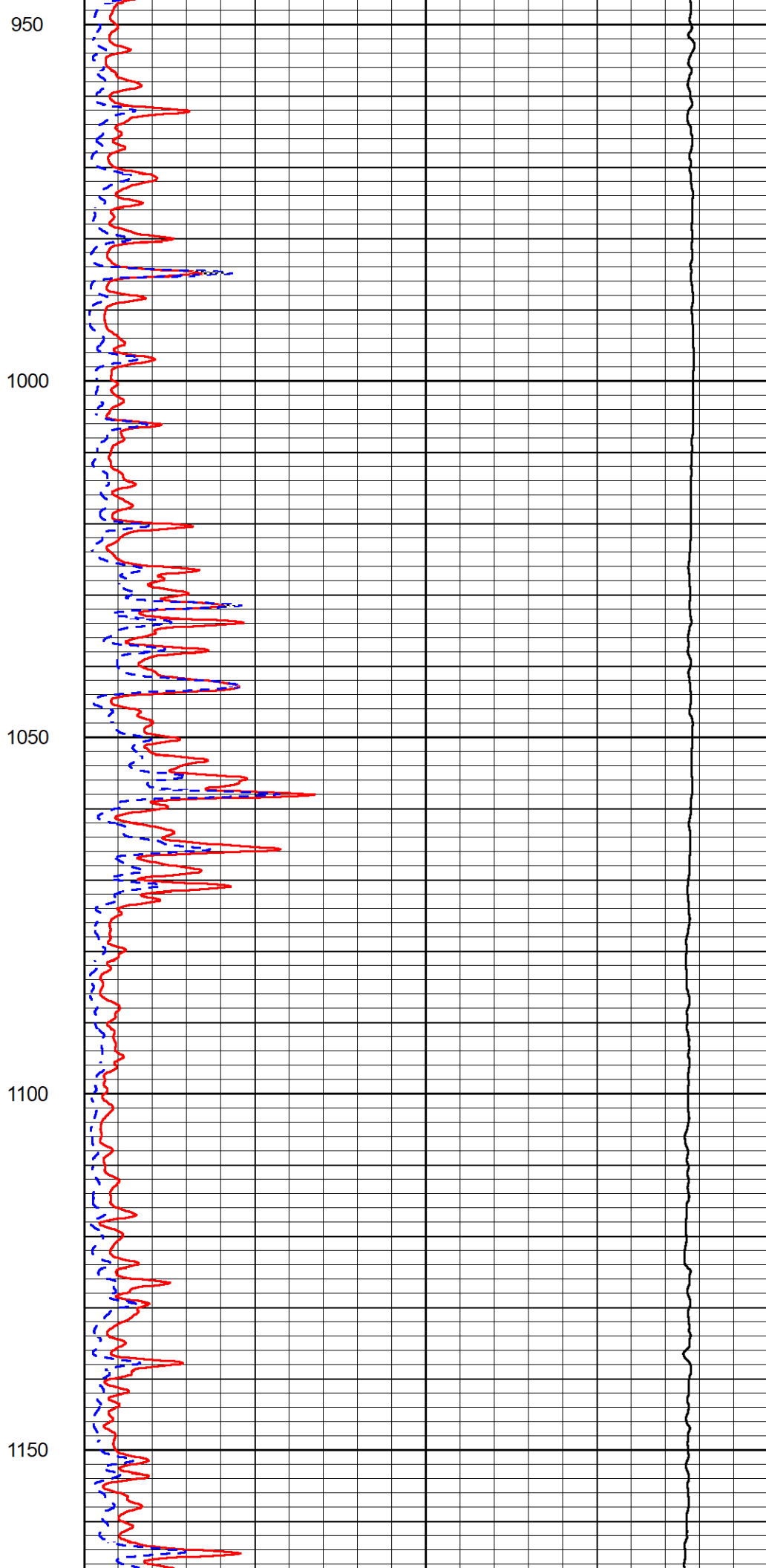
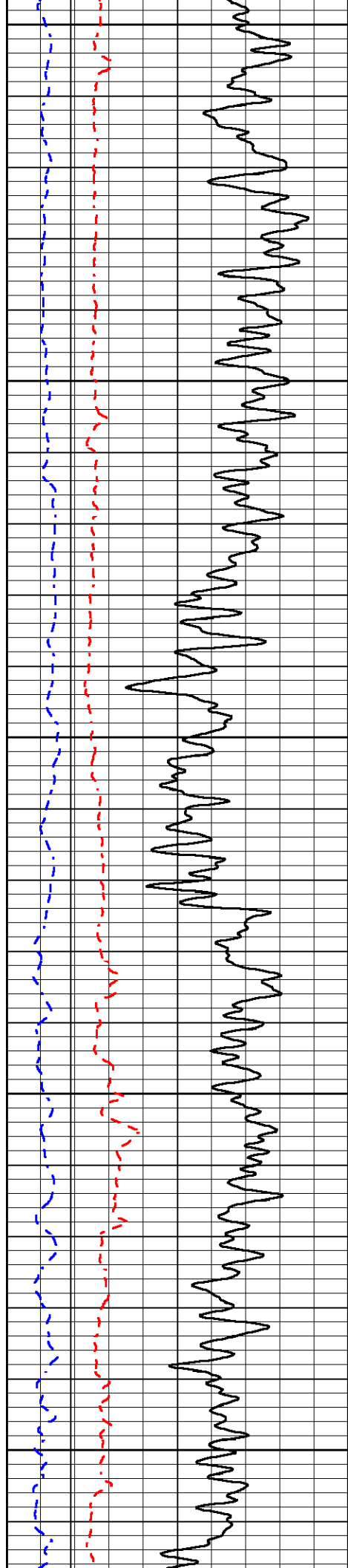
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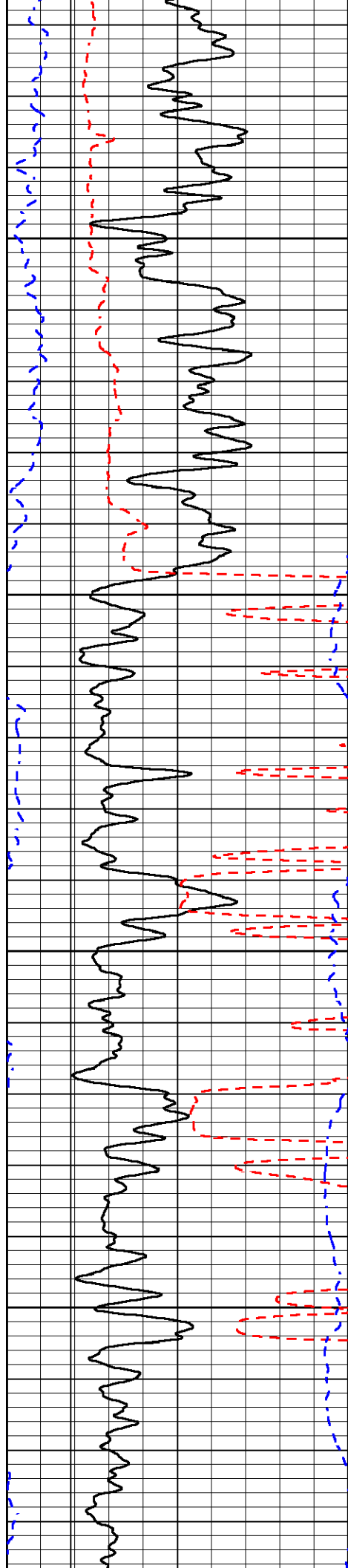
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850

900





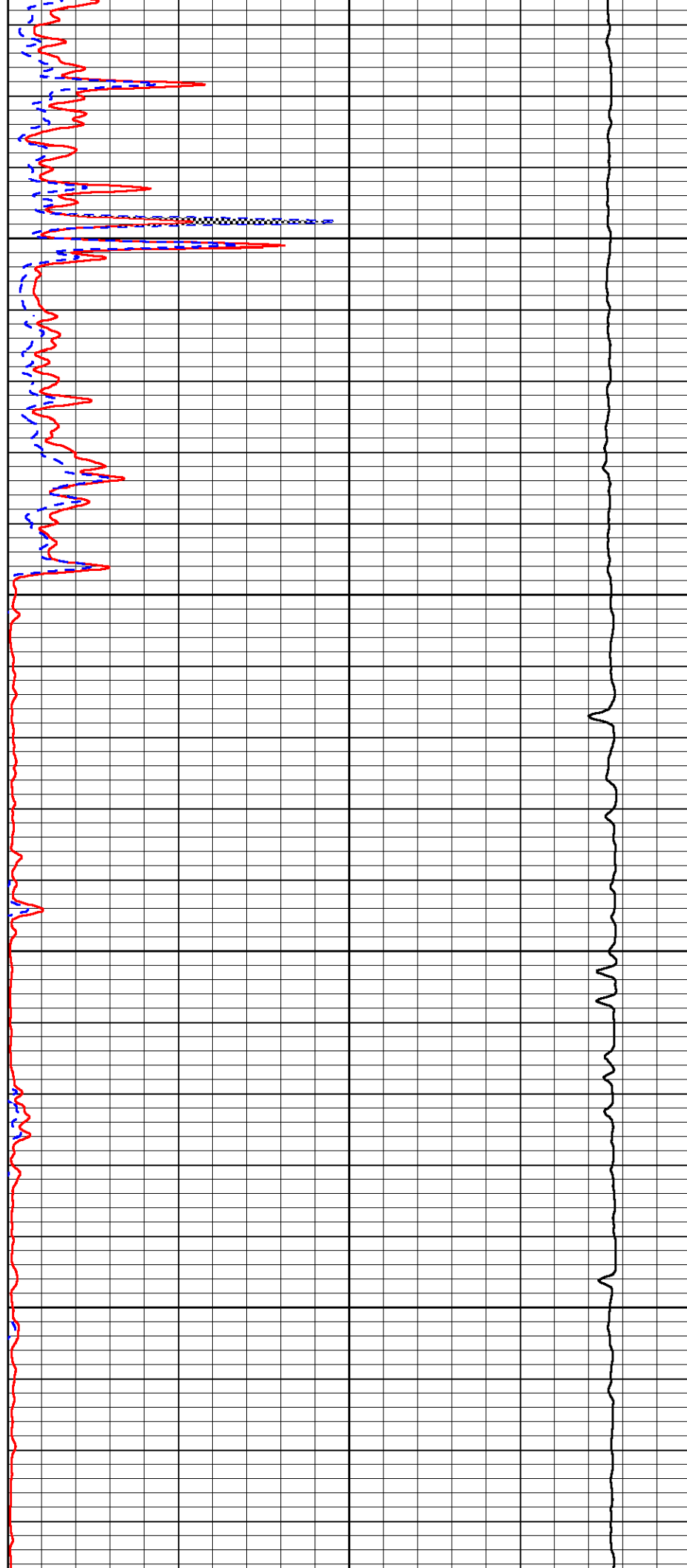


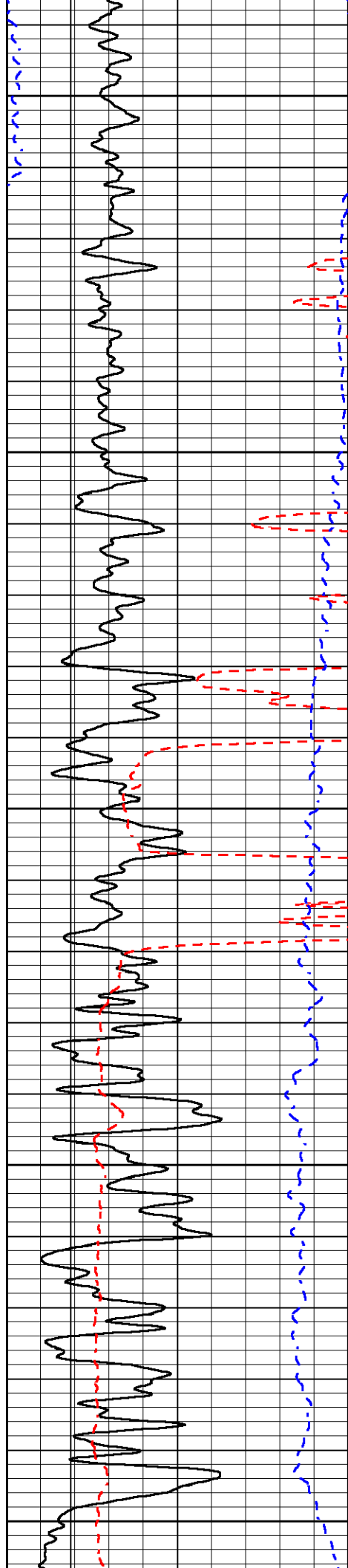
1200

1250

1300

1350





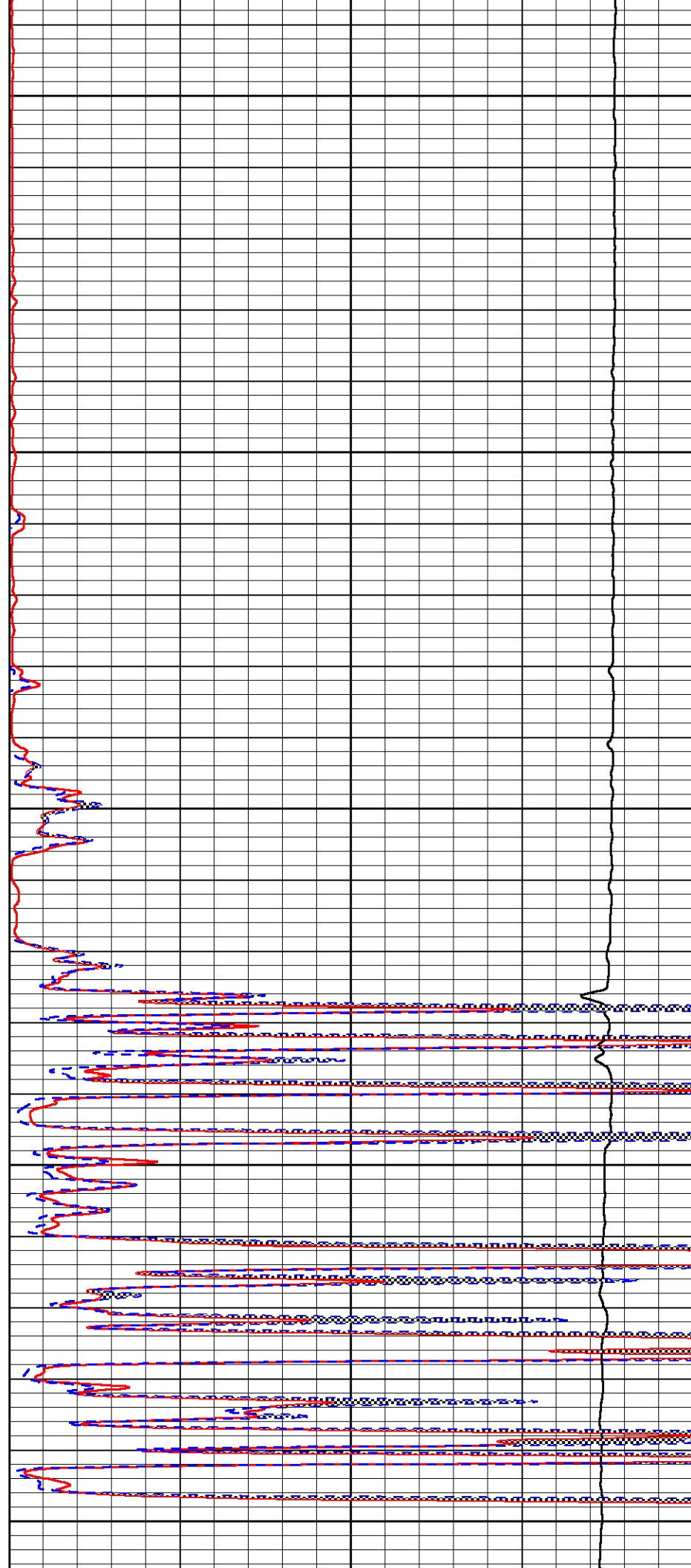
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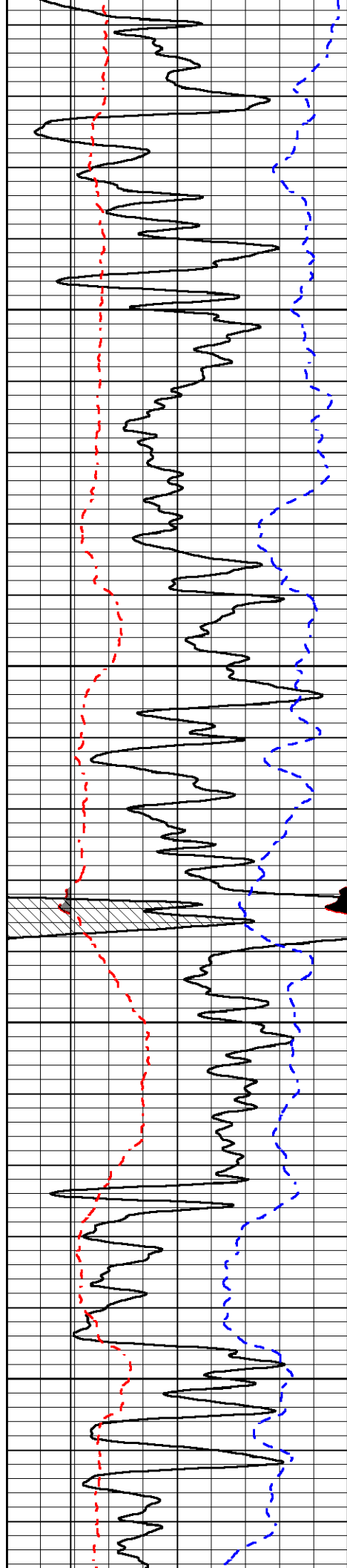
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1500

1550

1600



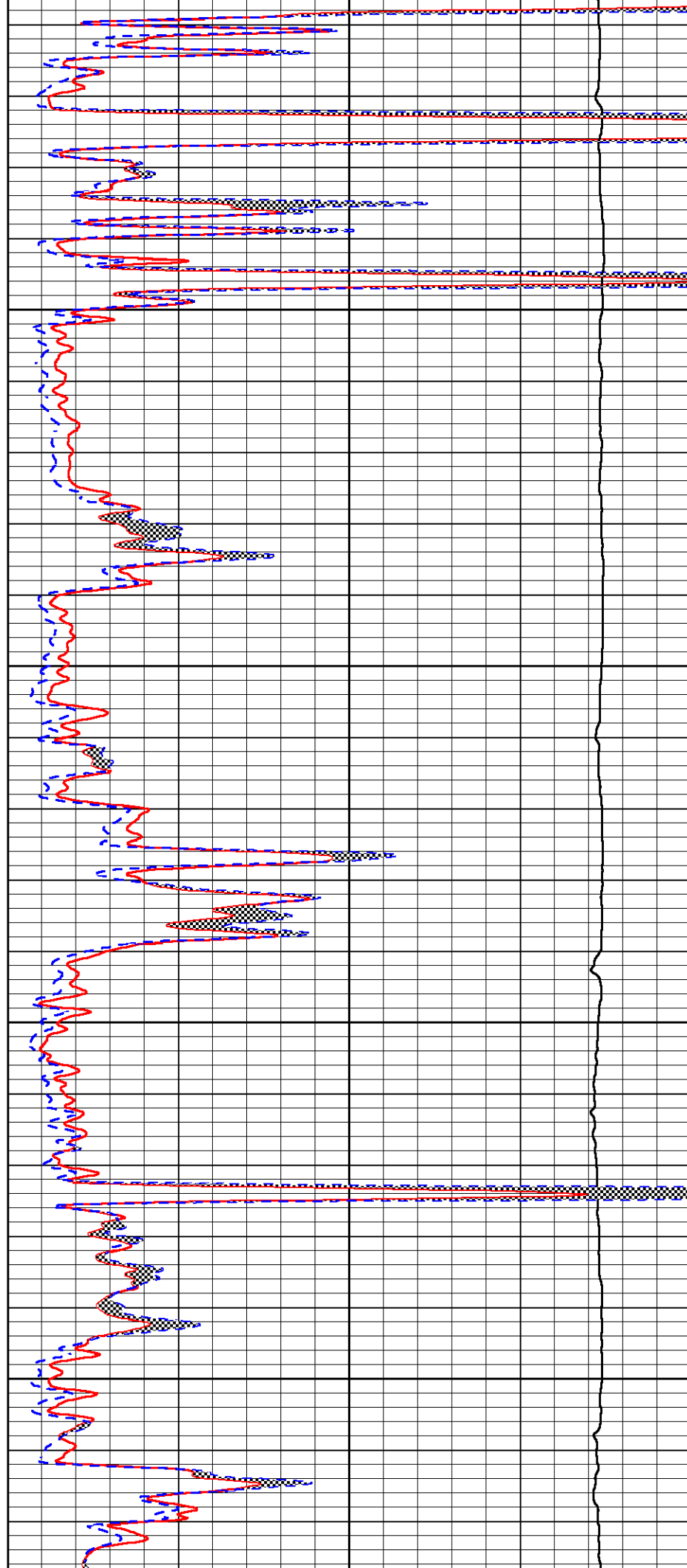


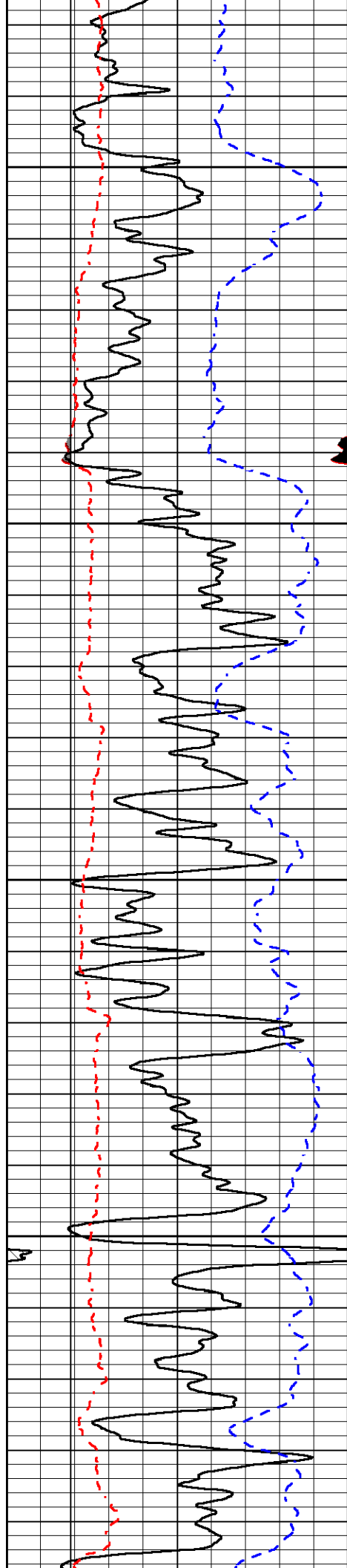
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1700

1750

1800



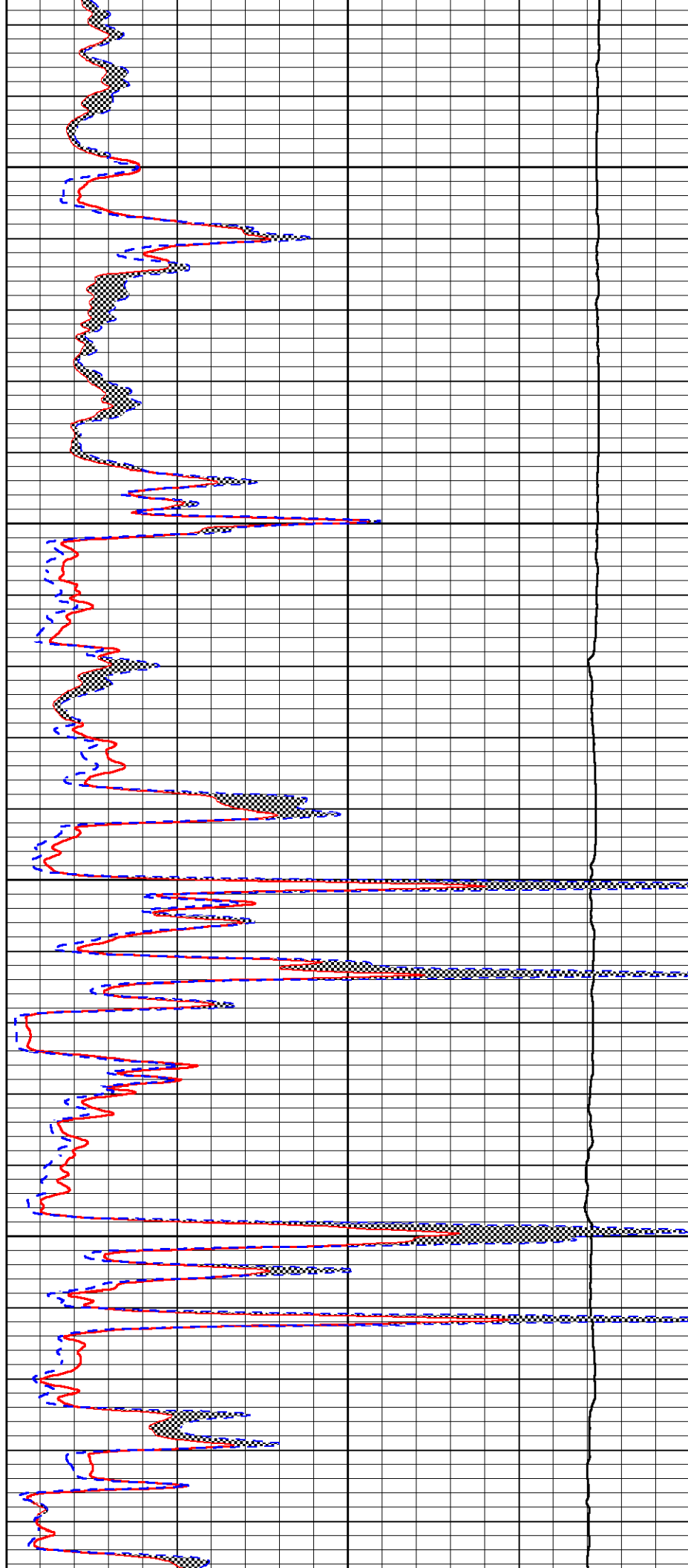


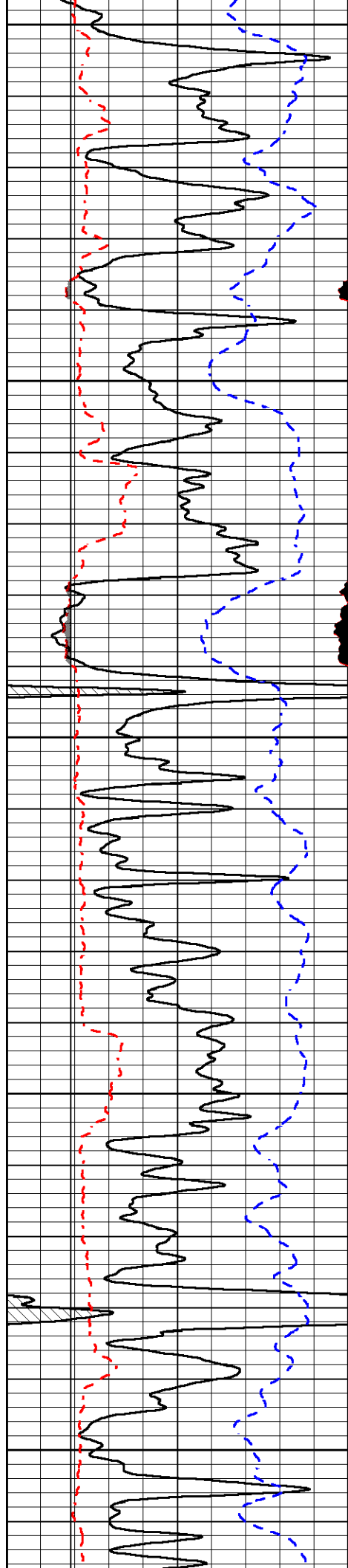
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1900

1950

2000





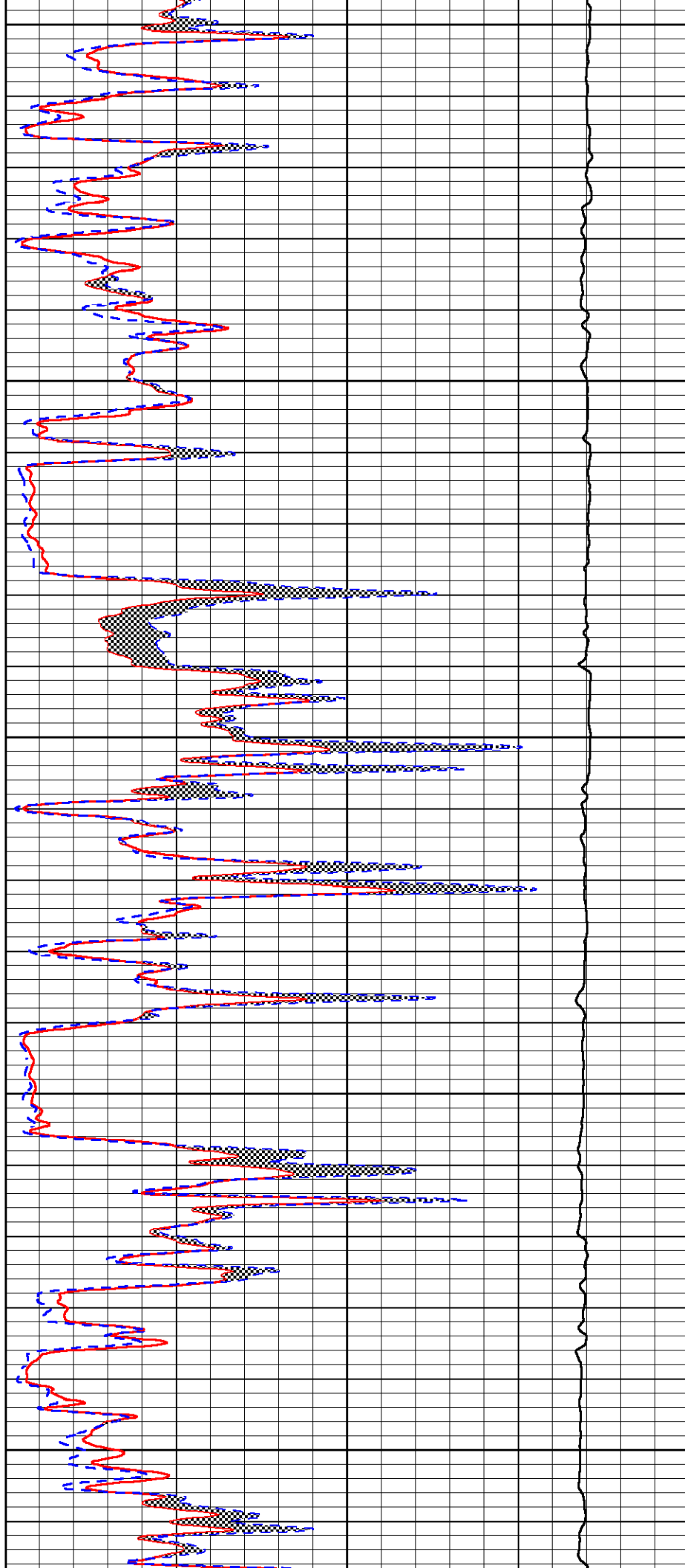
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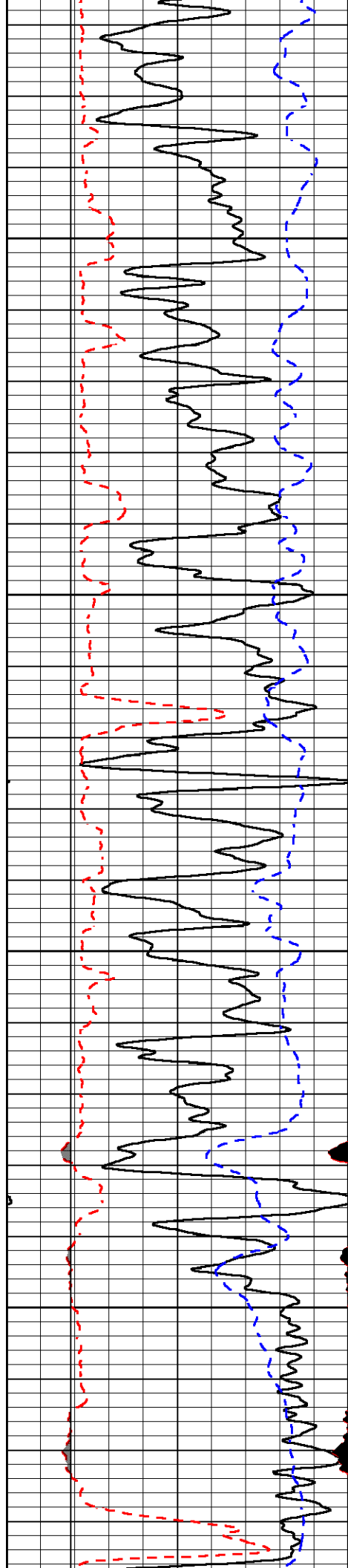
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2150

2200

2250



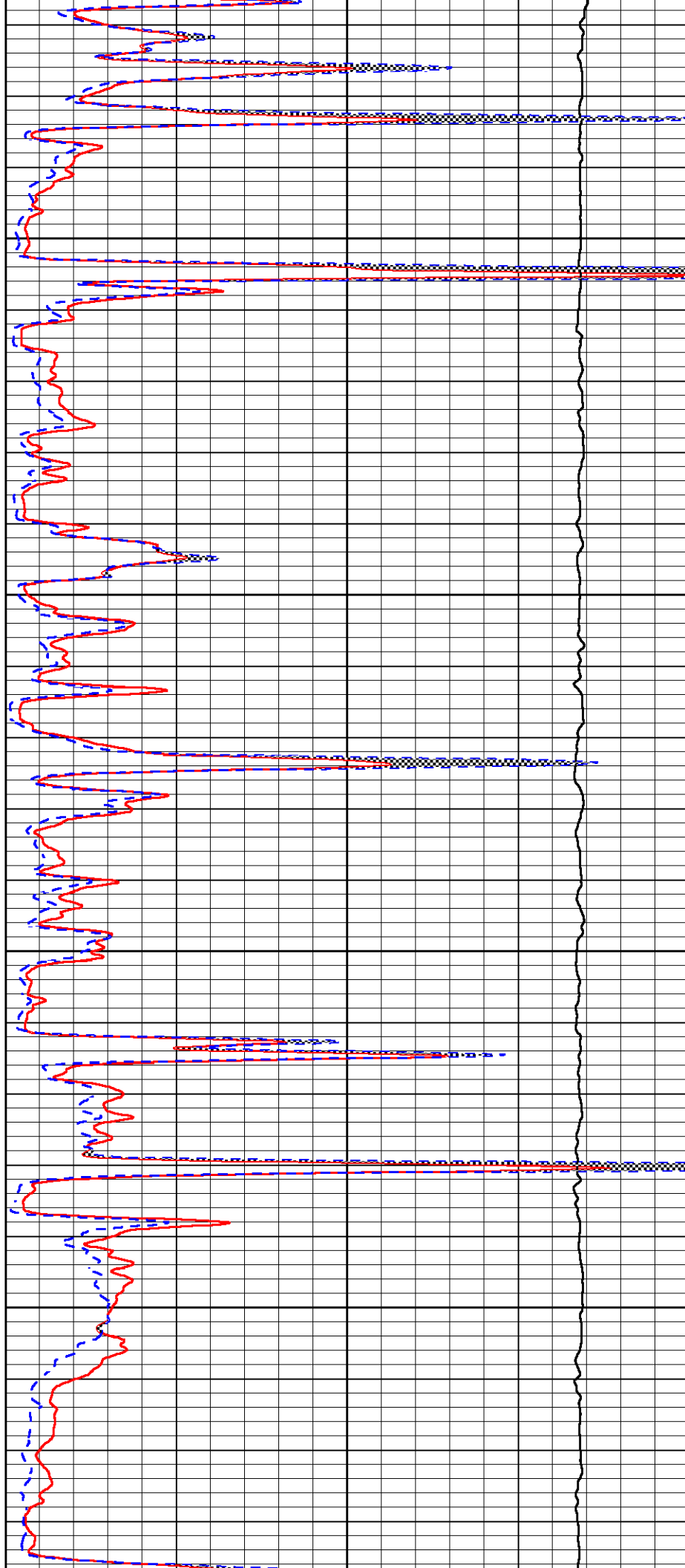


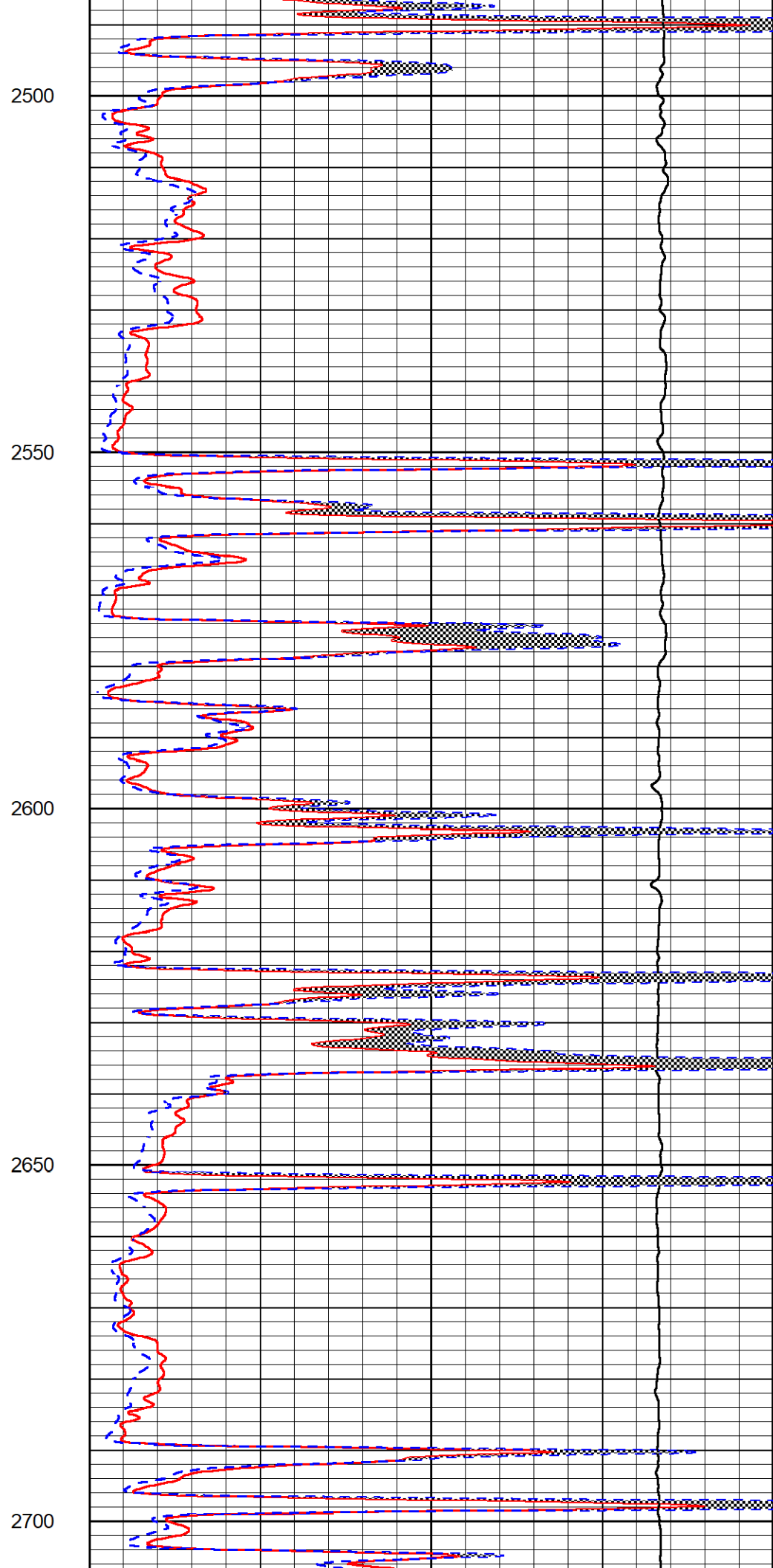
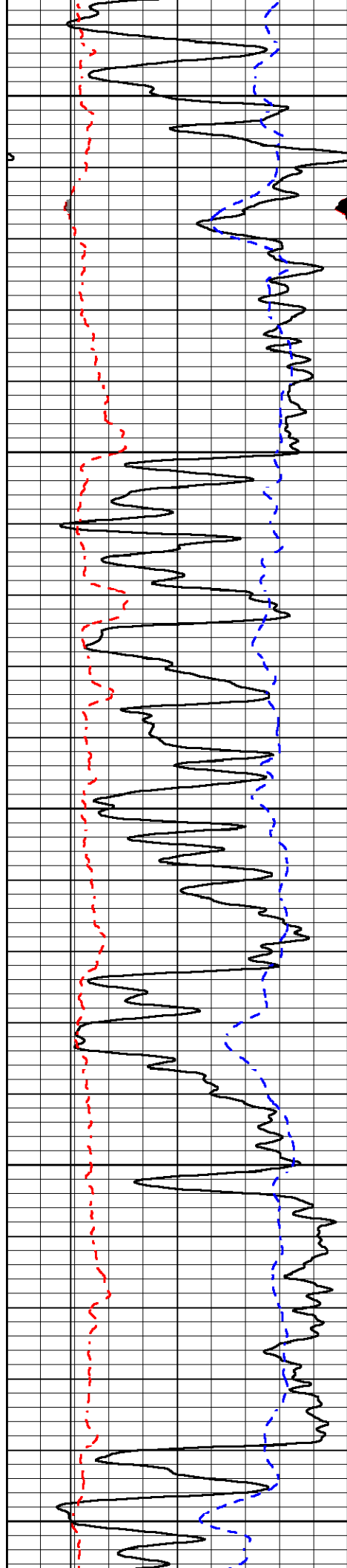
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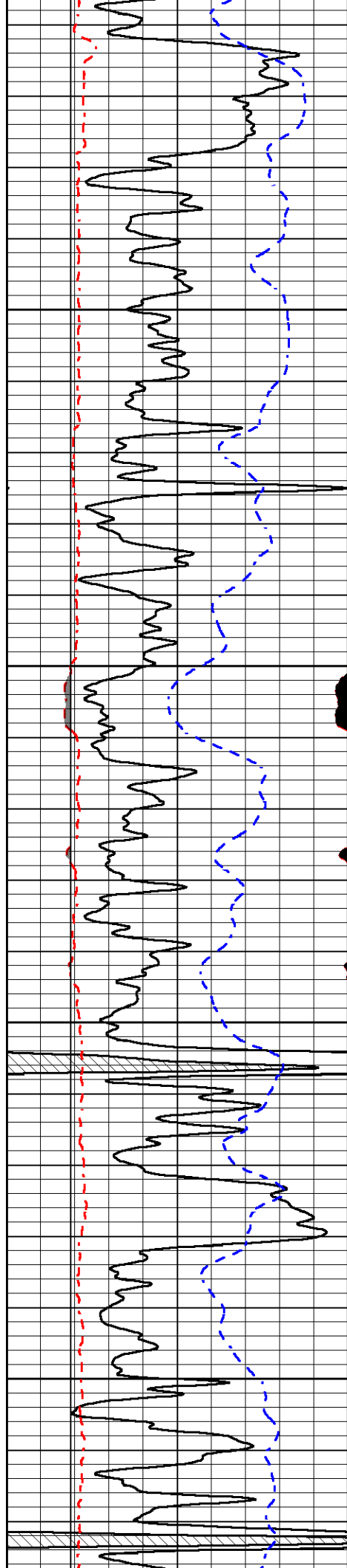
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2400

2450





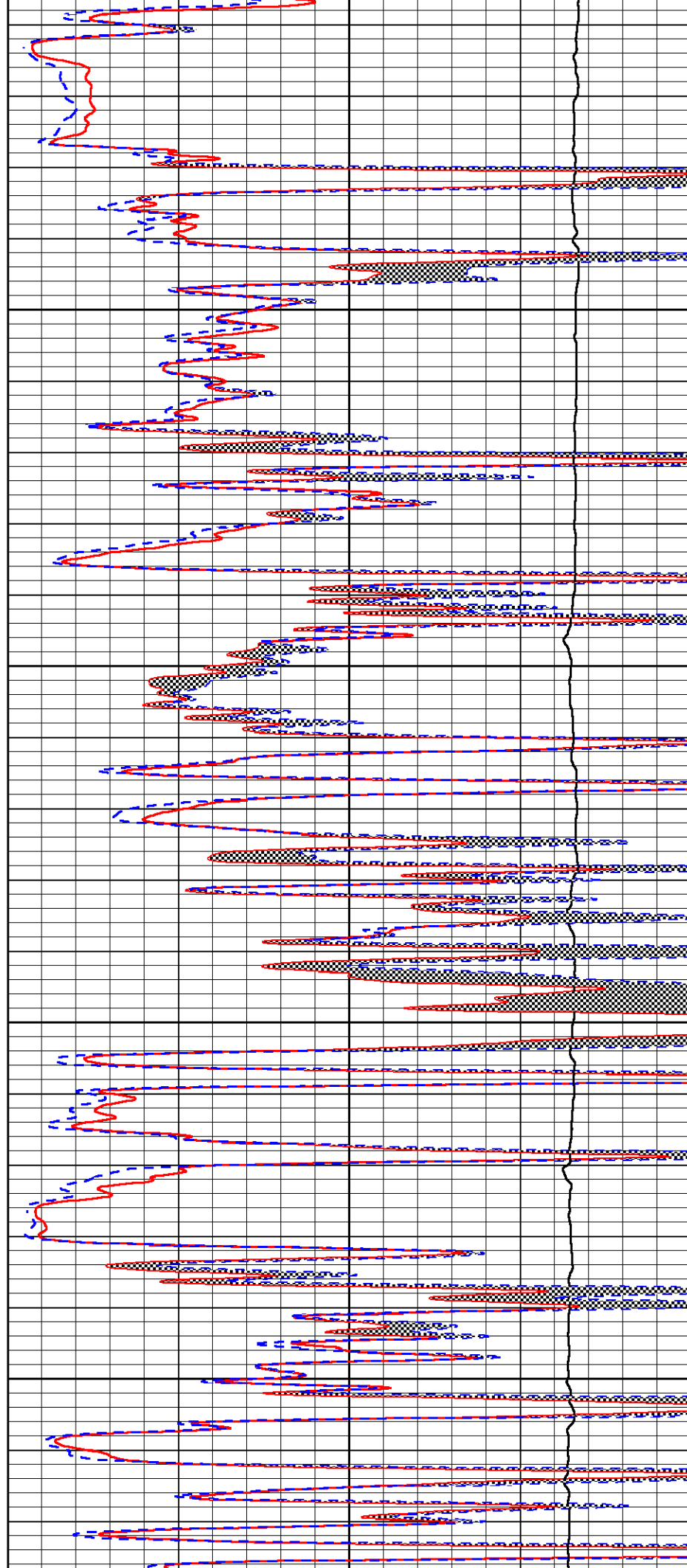


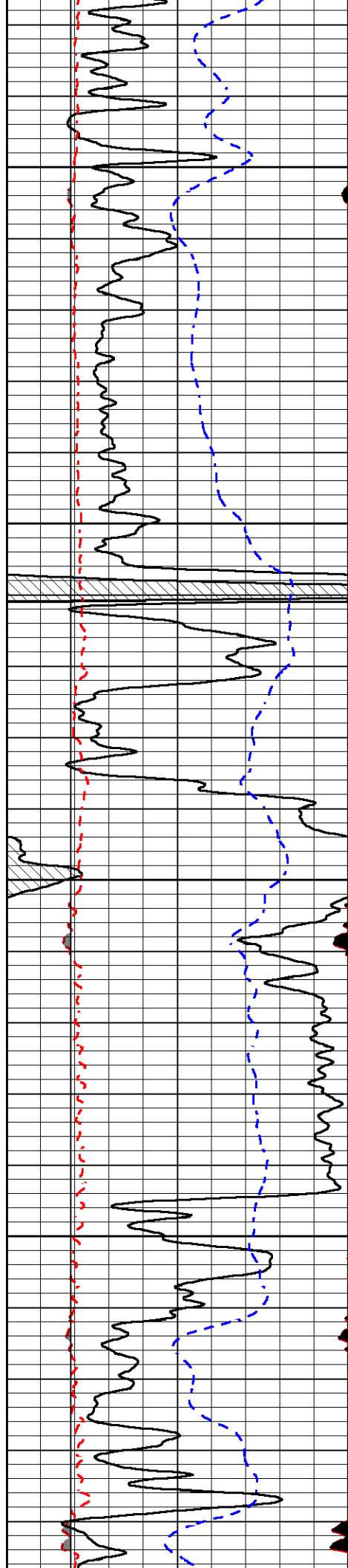
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2800

2850

2900



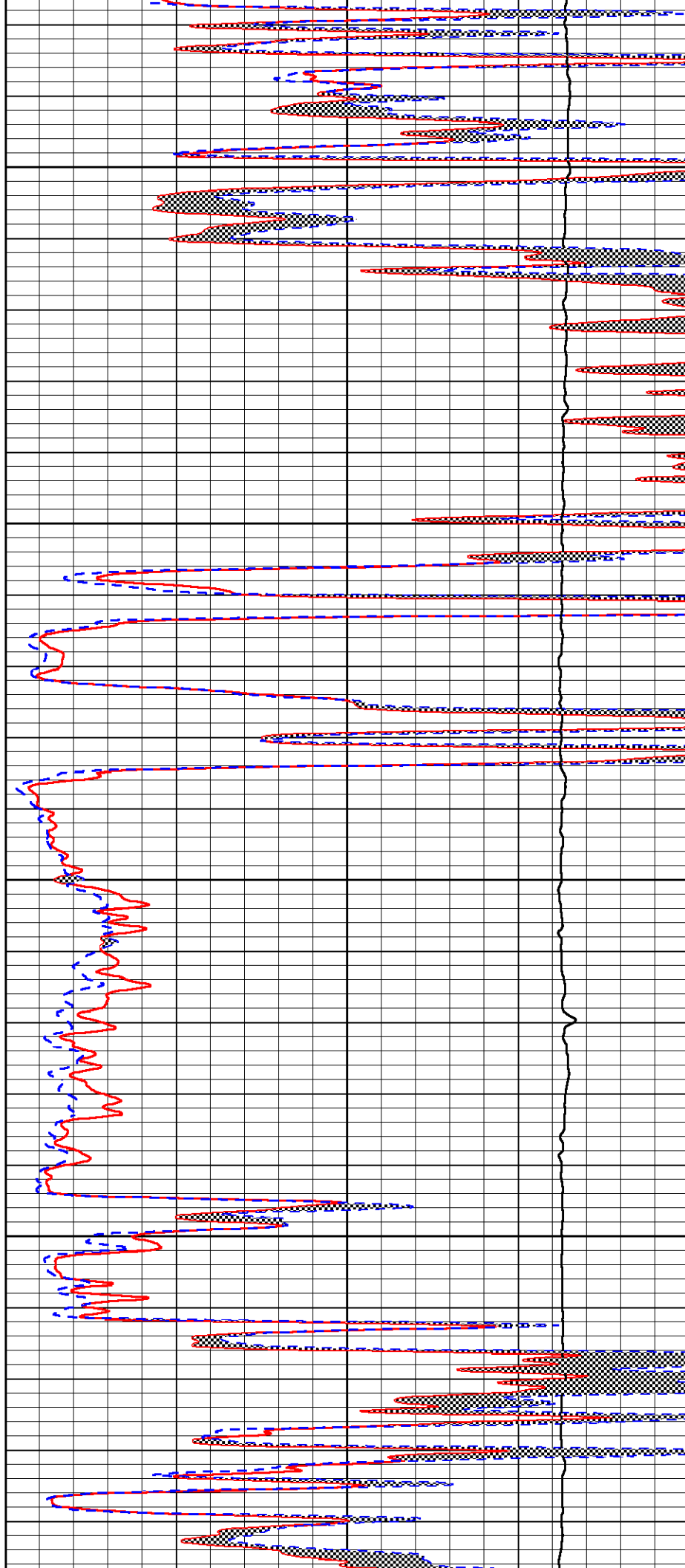


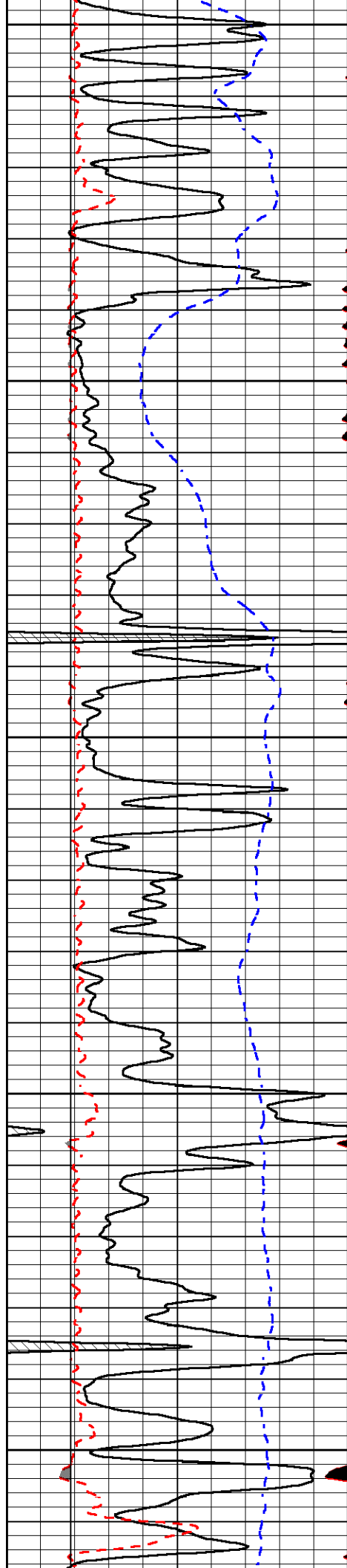
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3000

3050

3100





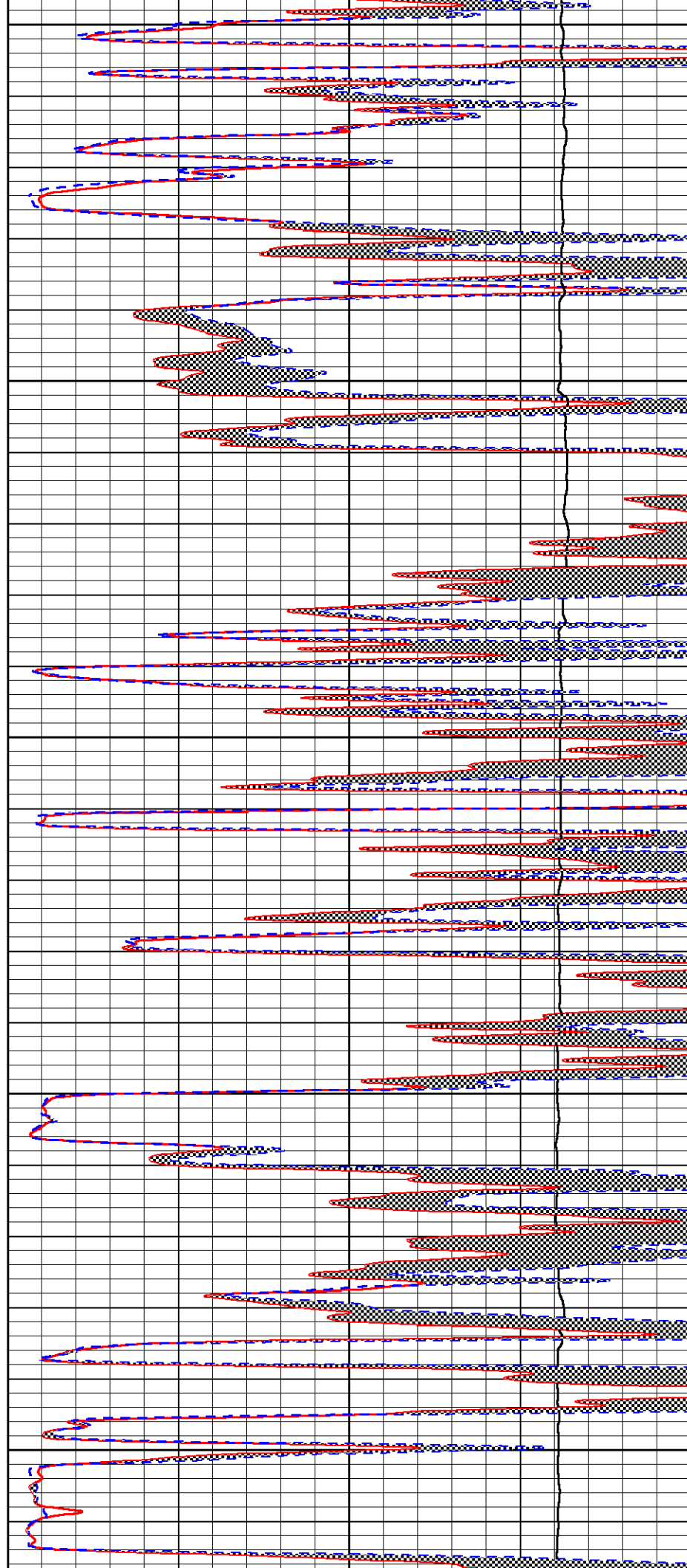
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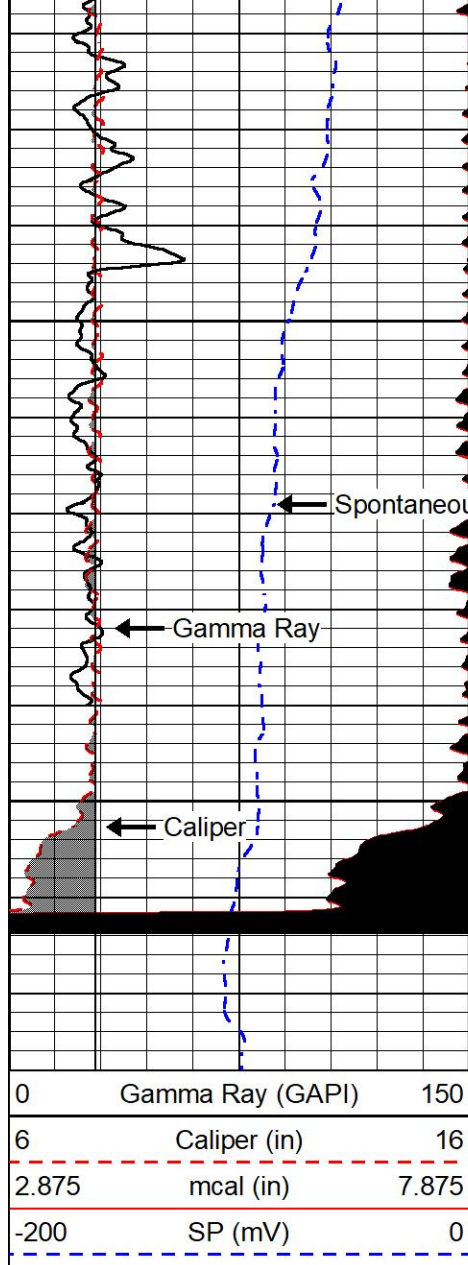
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3250

3300

3350





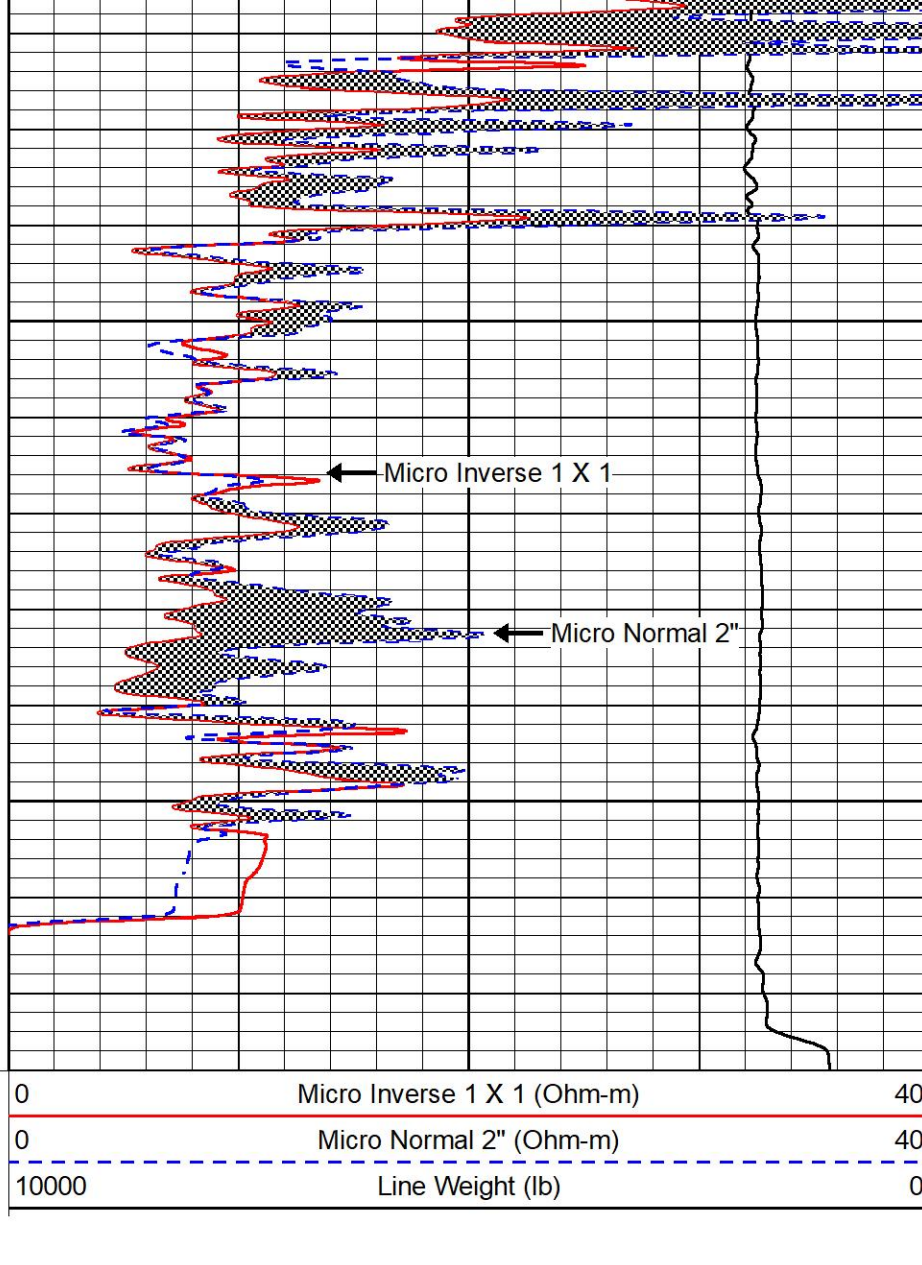
3400

← Spontaneous Potential

← Gamma Ray

← Caliper

3450



← Micro Inverse 1 X 1

← Micro Normal 2"

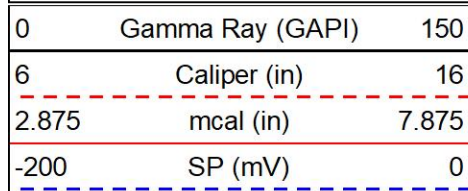


MIDWEST WIRELINE

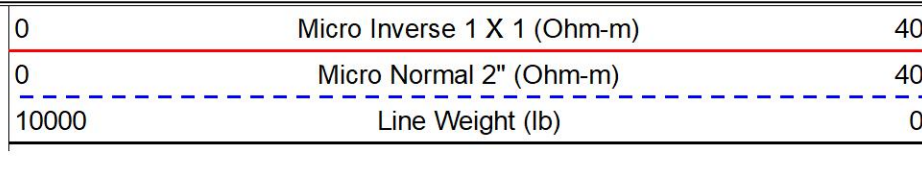
REPEAT SECTION

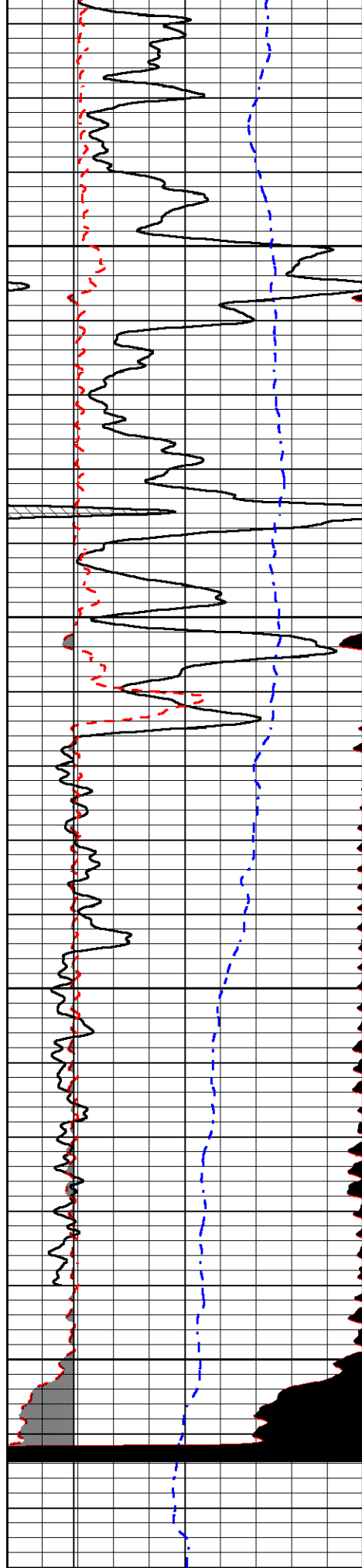
REPEAT PASS

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 Presentation Format _micro
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 Charted by Depth in Feet scaled 1:240

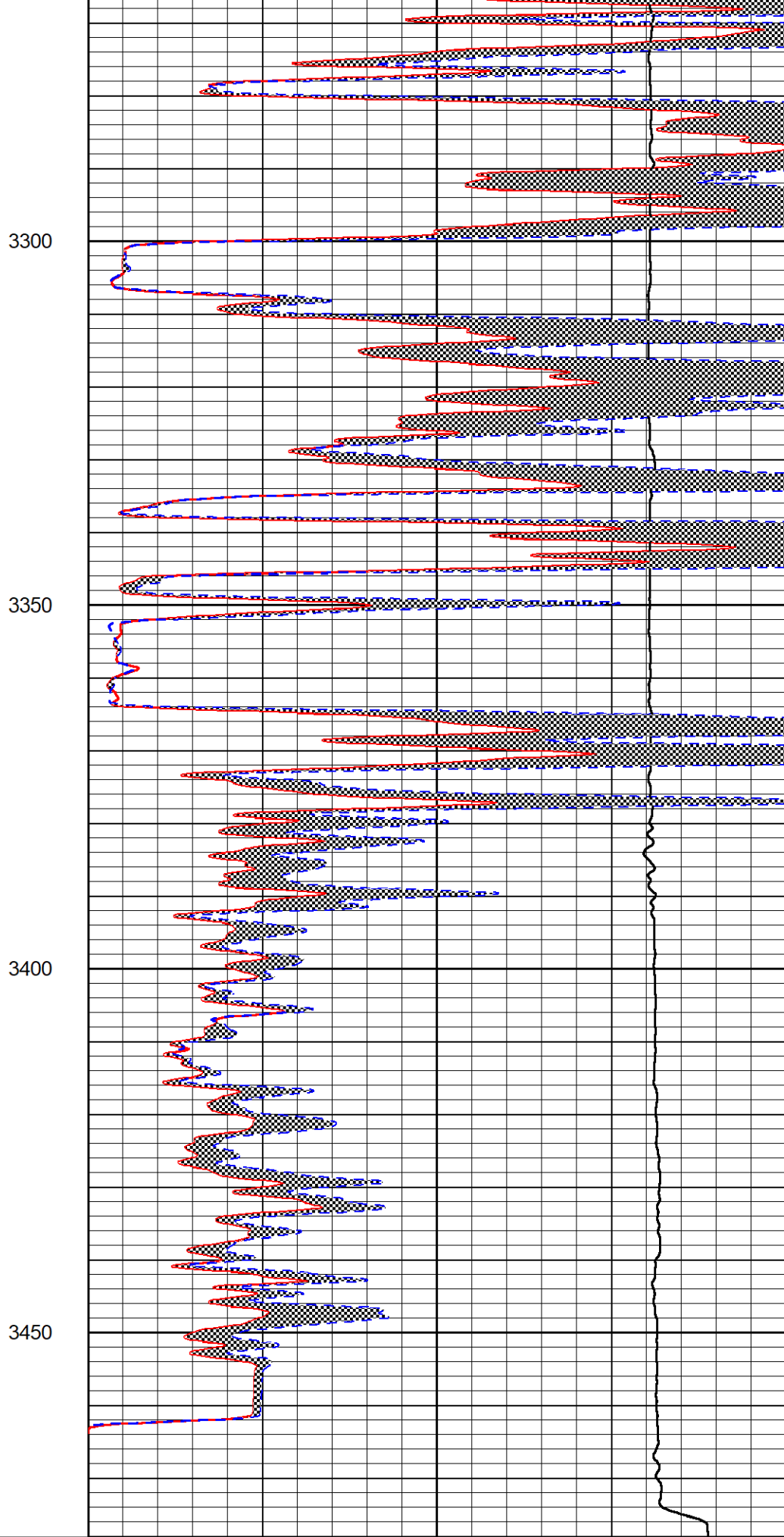


3250





0 Gamma Ray (GAPI) 150
6 Caliper (in) 16



0 Micro Inverse 1 X 1 (Ohm-m) 40
0 Micro Normal 2" (Ohm-m) 40

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

10000	Line Weight (lb)	0
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MIDWEST WIRELINE

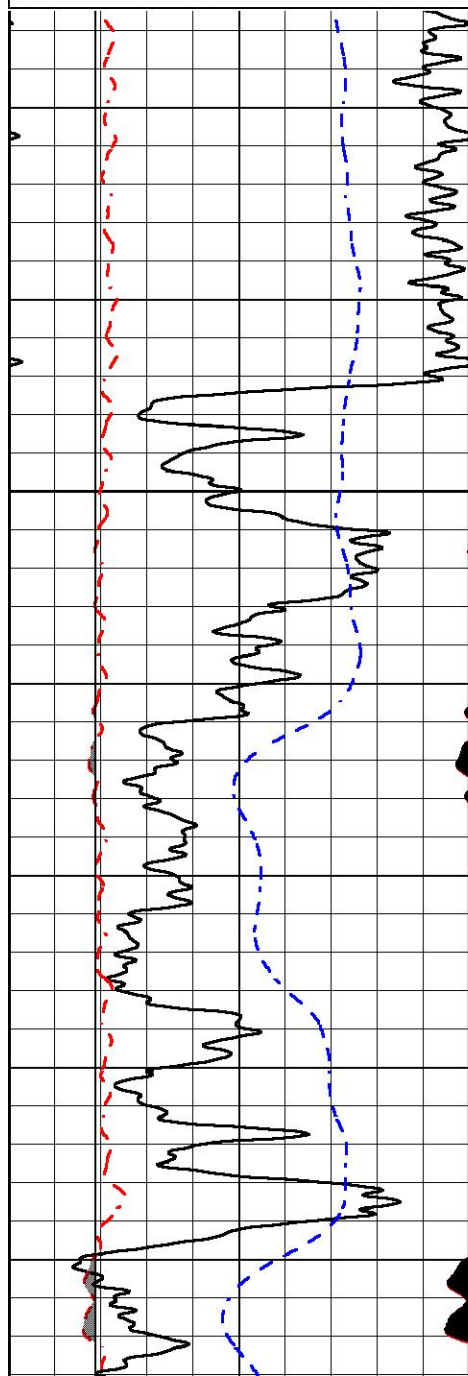
Hi Resolution

Main Pass

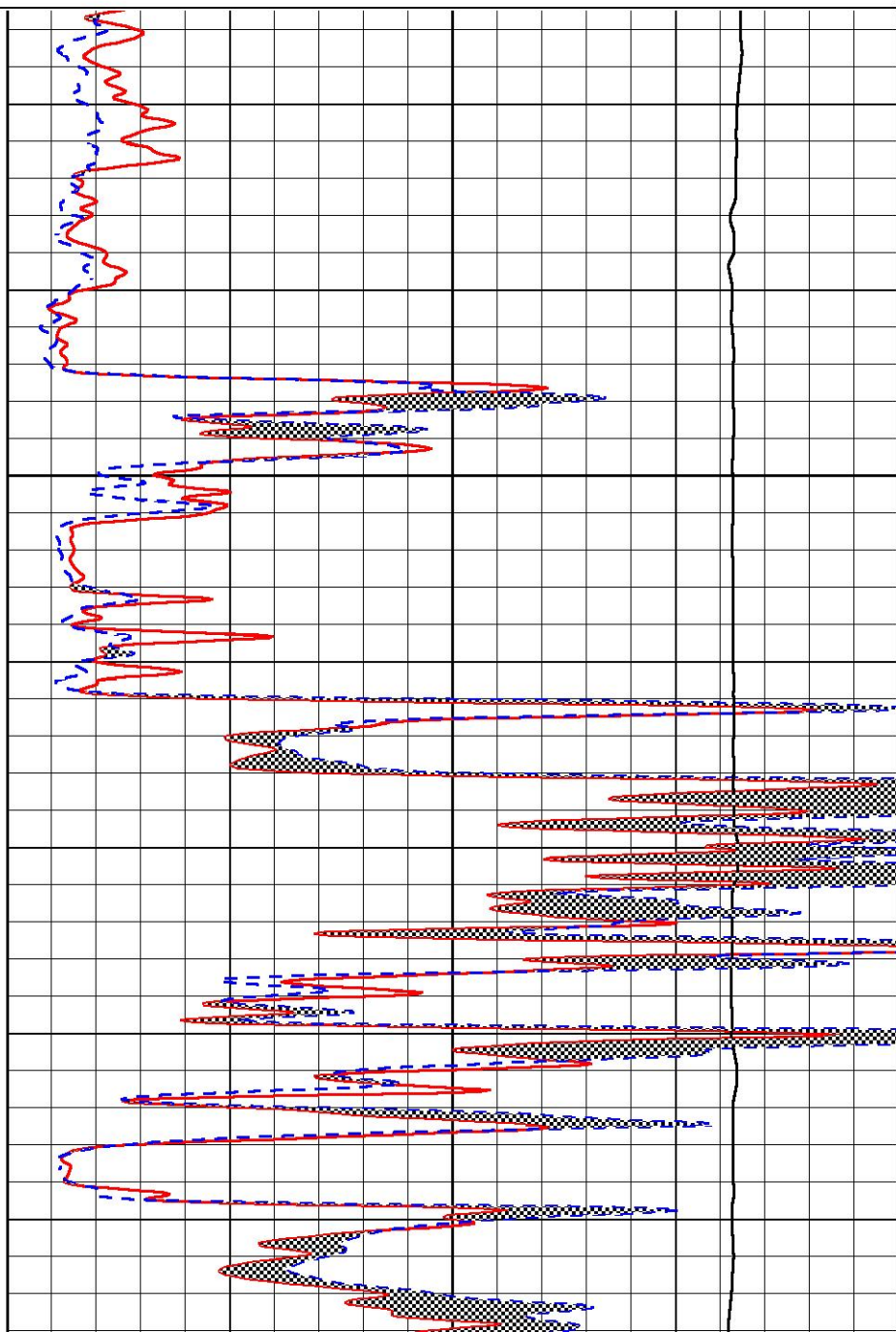
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Dataset Pathname stackml/pass10.1
Presentation Format _micro
Dataset Creation Mon Dec 06 16:10:33 2021
Charted by Depth in Feet scaled 1:120

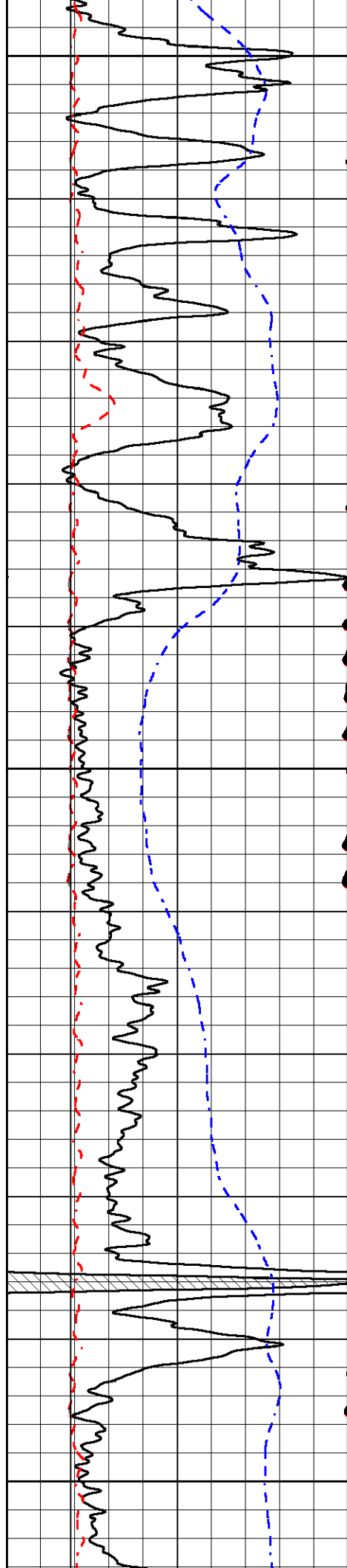
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

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



3100

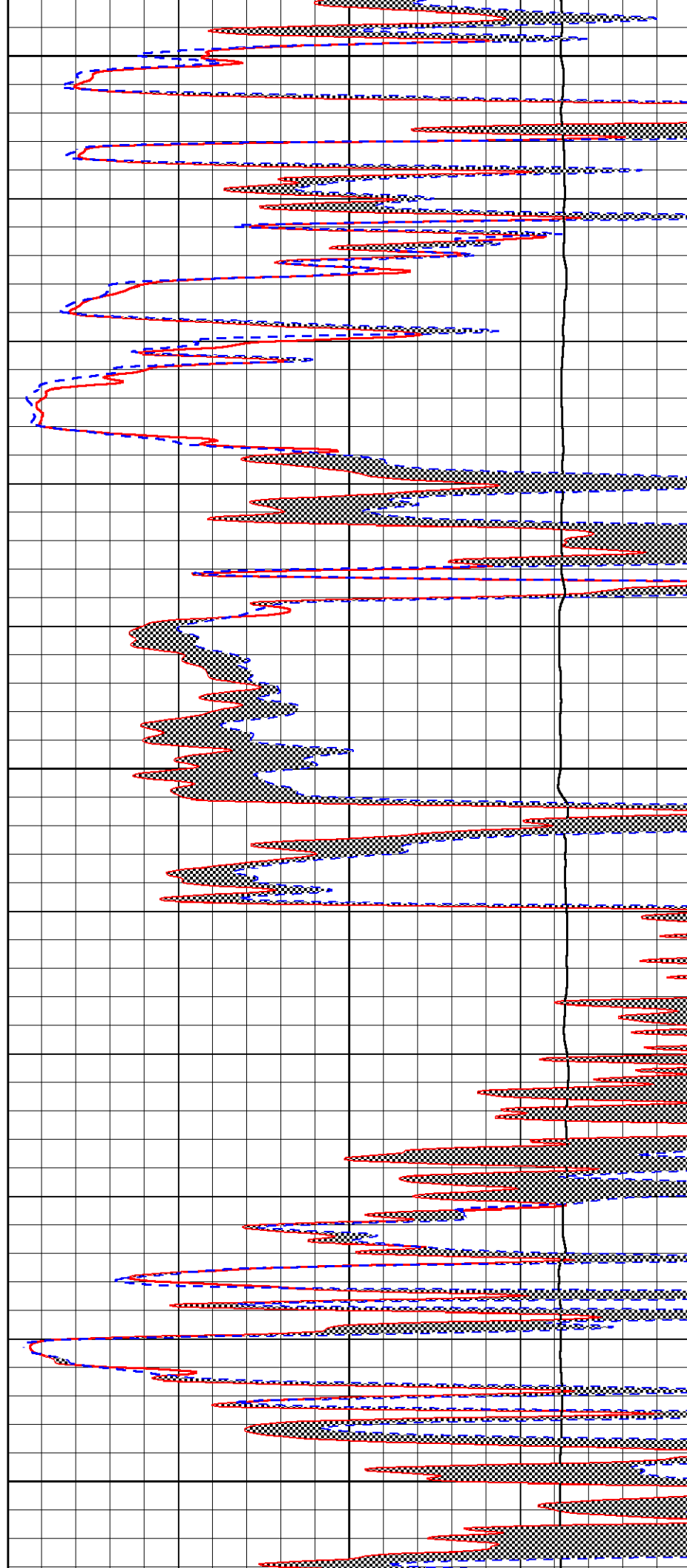


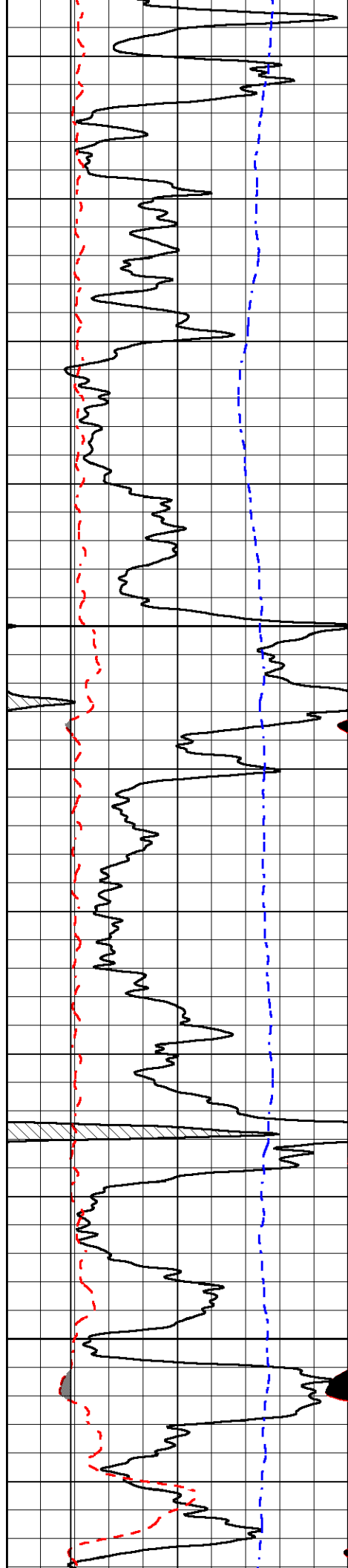


3150

3200

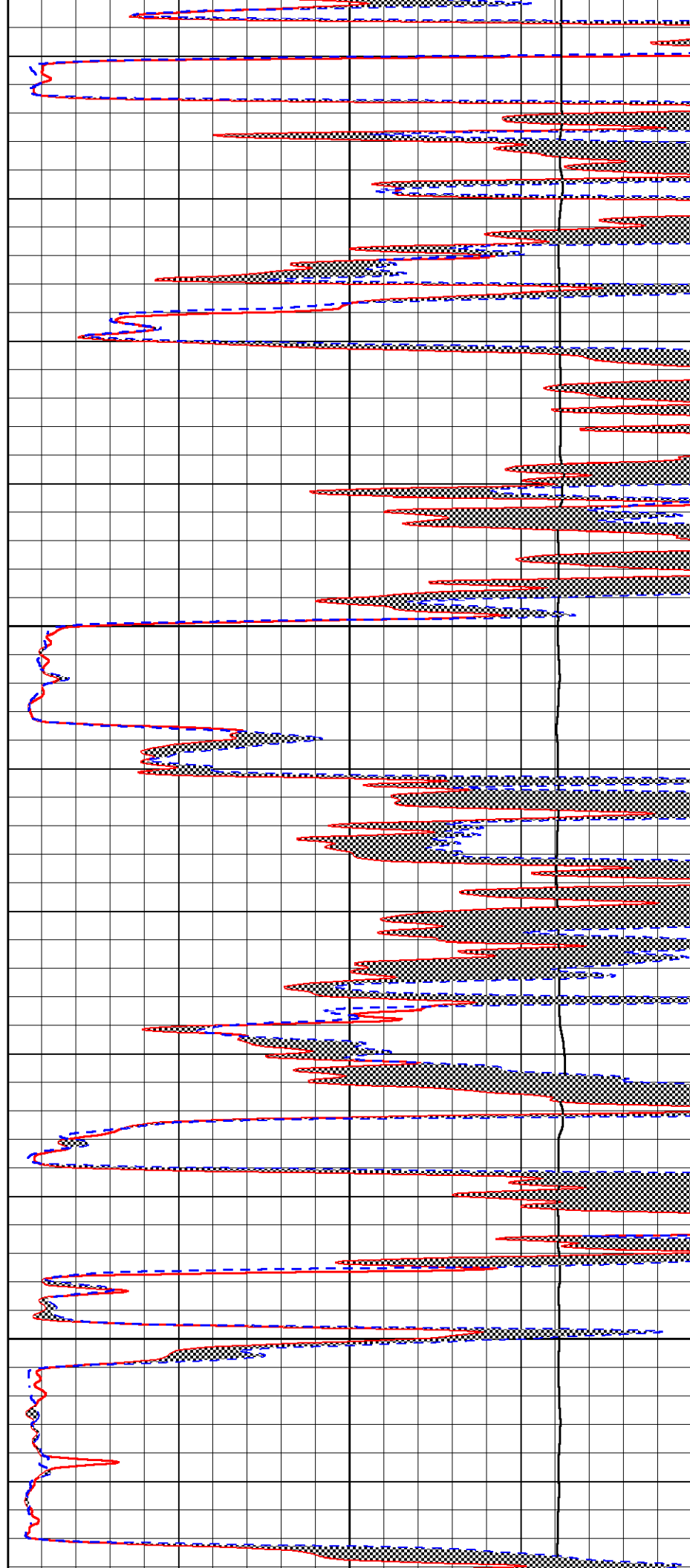
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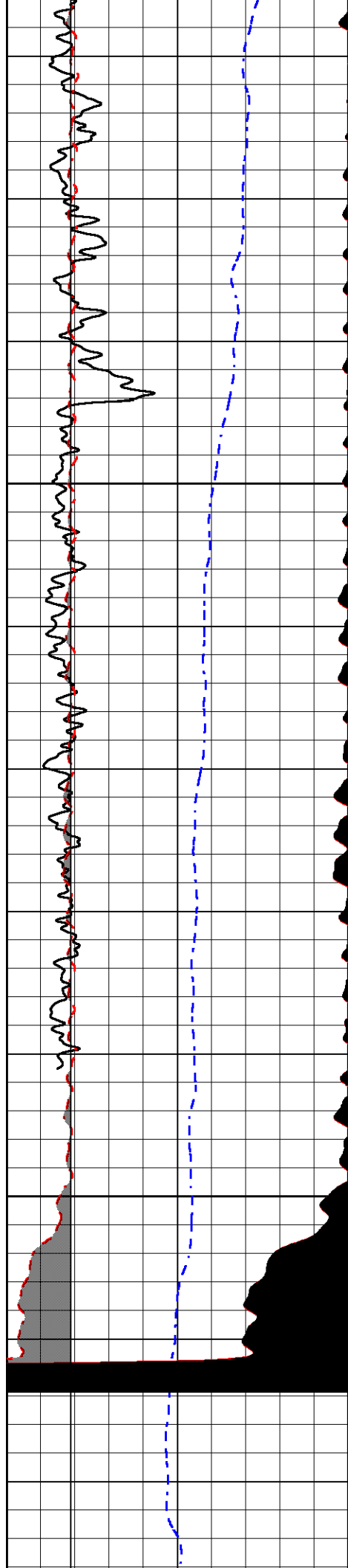




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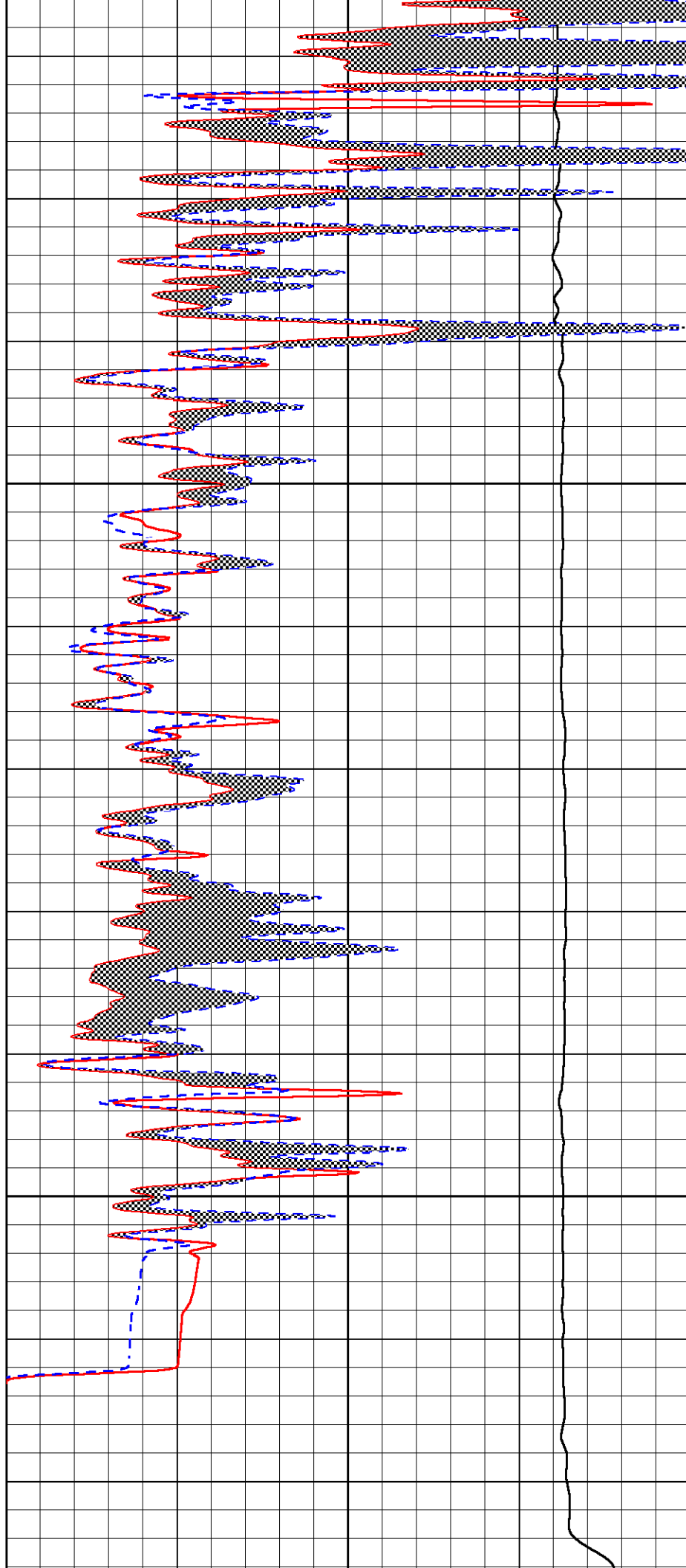
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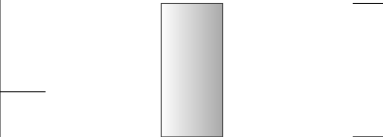
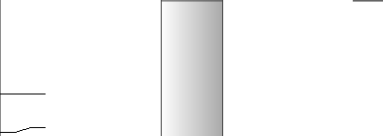
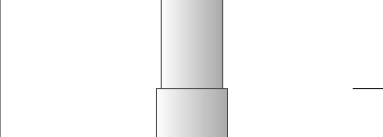
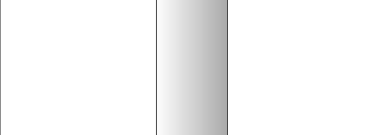
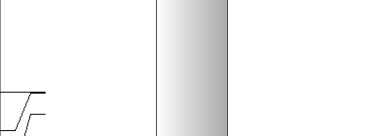
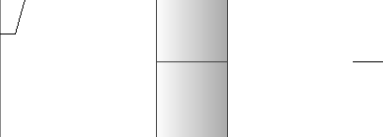
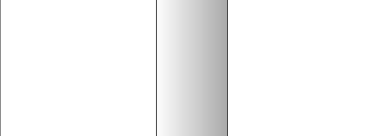
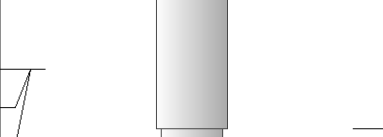
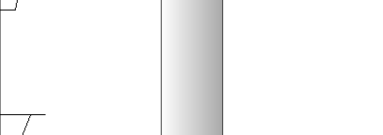
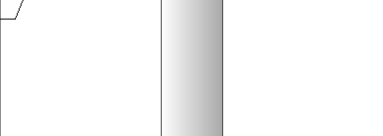
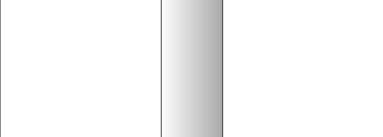
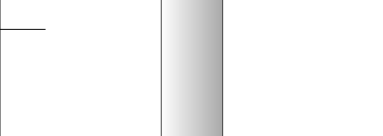
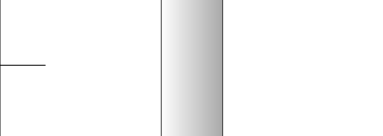


3400

3450



0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Caliper (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcAl (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (tk10-MW)	5.00	3.50	100.00
CNSSC	36.48					
LSD	28.18		CDL-M&W (915-956)	8.50	4.00	250.00
DCAL	28.17					
SSD	27.68					
ML-PSI STKBL ML (PSI-02)						
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
CILD	8.33		DIL-PSI HIGH TEMP (959-1032)	18.25	3.50	220.00
CILM	4.50					

