



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company American Warrior, Inc.			
Well	Hicks A #2-24		
Field	Patriot		
County	Finney		
State	Kansas		
Company American Warrior, Inc.			
Well	Hicks A #2-24		
Field	Patriot		
County	Finney		
State	Kansas		
Location: API #: 15-055-22549-00-00			
SEC 24 TWP 25S RGE 32W			
Permanent Datum	Ground Level	Elevation	2883
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
2460 FNL & 1881 FWL		CNL/CDL DIL	
Date		2/12/2022	
Run Number	One		
Depth Driller	5100		
Depth Logger	5100		
Bottom Logged Interval	5099		
Top Log Interval	2500		
Casing Driller	8.625 @ 1619		
Casing Logger	1618		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2500		
Density / Viscosity	9.4	50	
pH / Fluid Loss	11.0	7.2	
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.85 @ 75		
Rmt @ Meas. Temp	.64 @ 75		
Rmc @ Meas. Temp	1.15 @ 75		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.50 @ 127		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	127		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Kevin Timson		

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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.

Garden City Kansas
5 South to Anney Sheer, 5 East,
North Into

Log Measured From: Kelly Bushing

11 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: Kevin Timson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 120	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 440	degF 50	Off	ft 5100

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

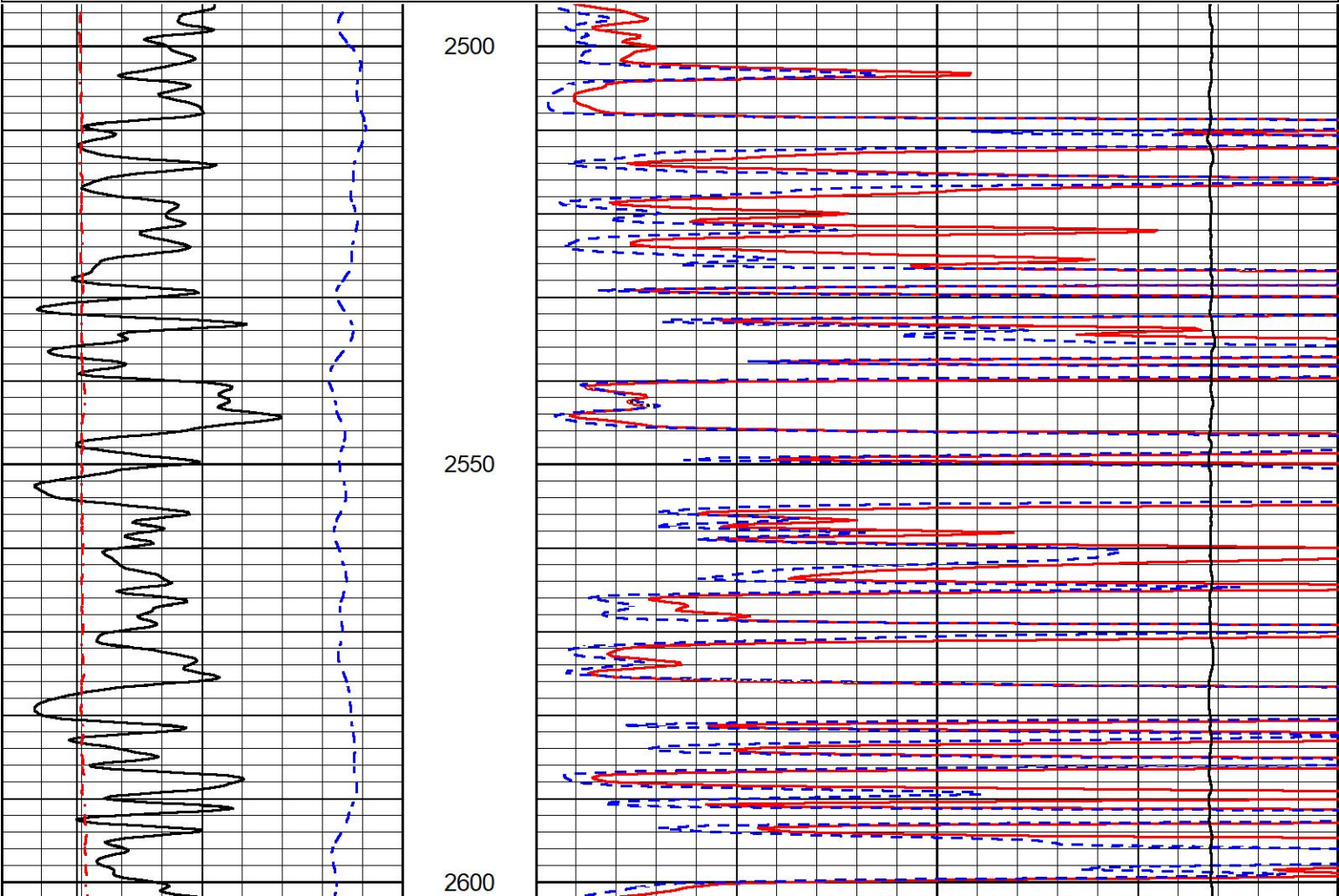
CILM	4.50								
SP	0.20								
Dataset: american_warrior_hicks_a_2_24.db: field/well/stackml/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in									

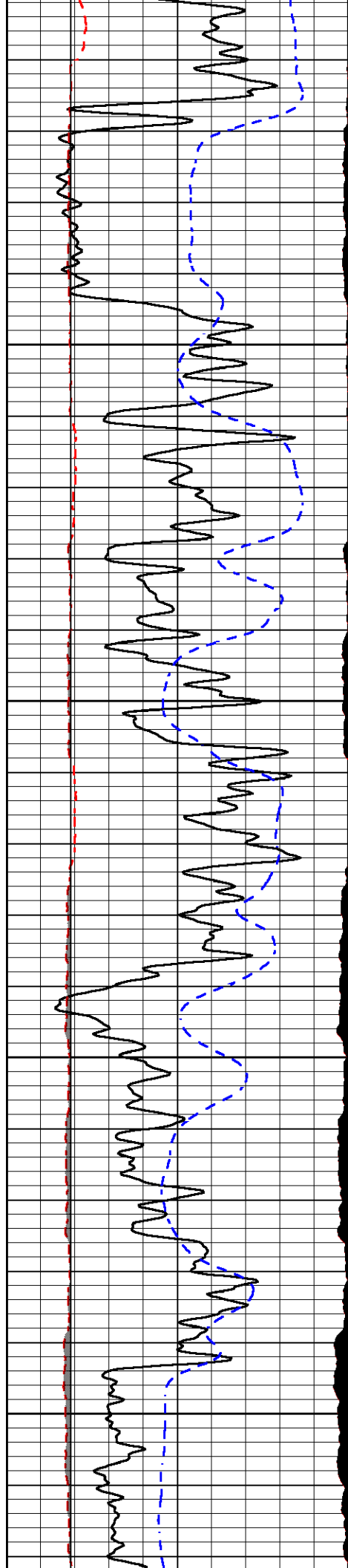
DETAIL SECTION

MAIN PASS

Database File	american_warrior_hicks_a_2_24.db
Dataset Pathname	stackml/pass4.1
Presentation Format	_micro
Dataset Creation	Sun Feb 13 01:04:19 2022
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	mccl (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			



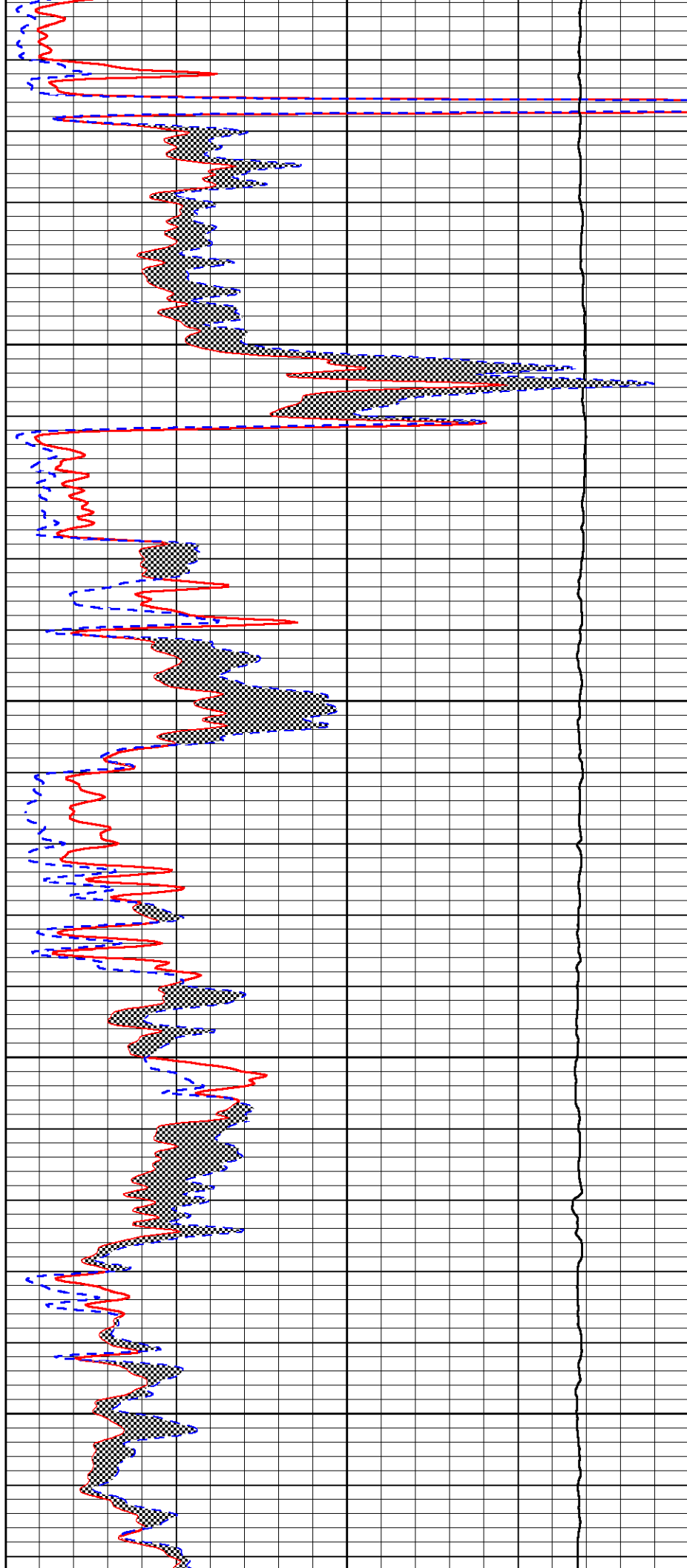


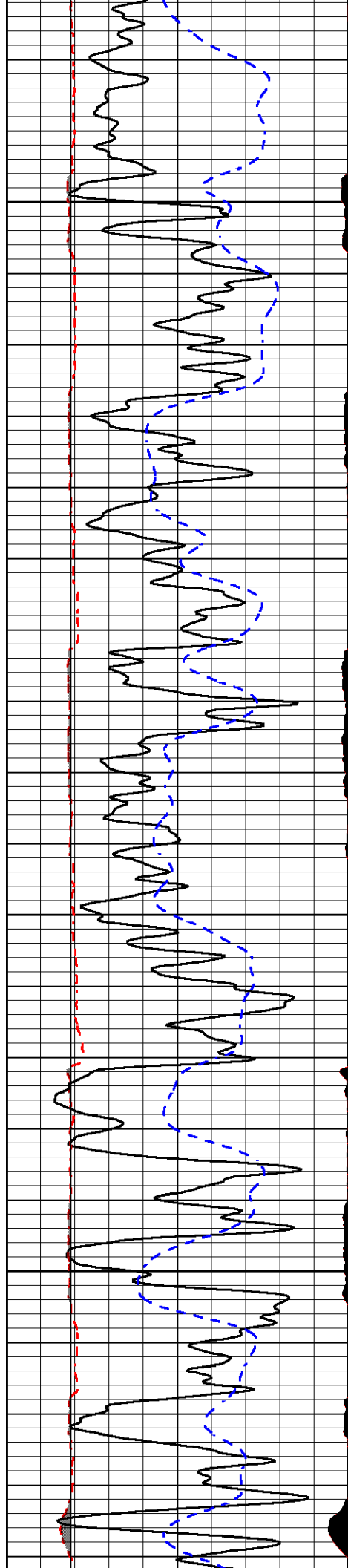
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2700

2750

2800



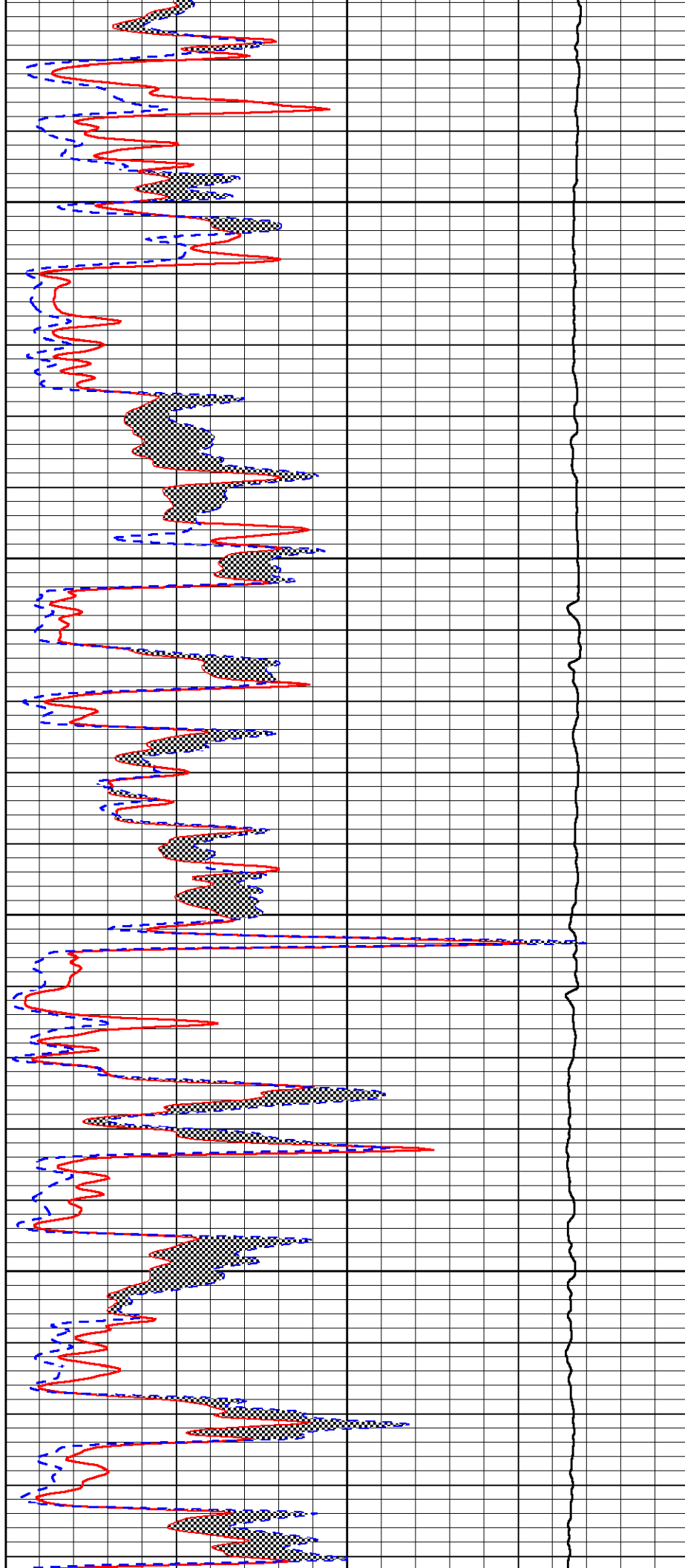


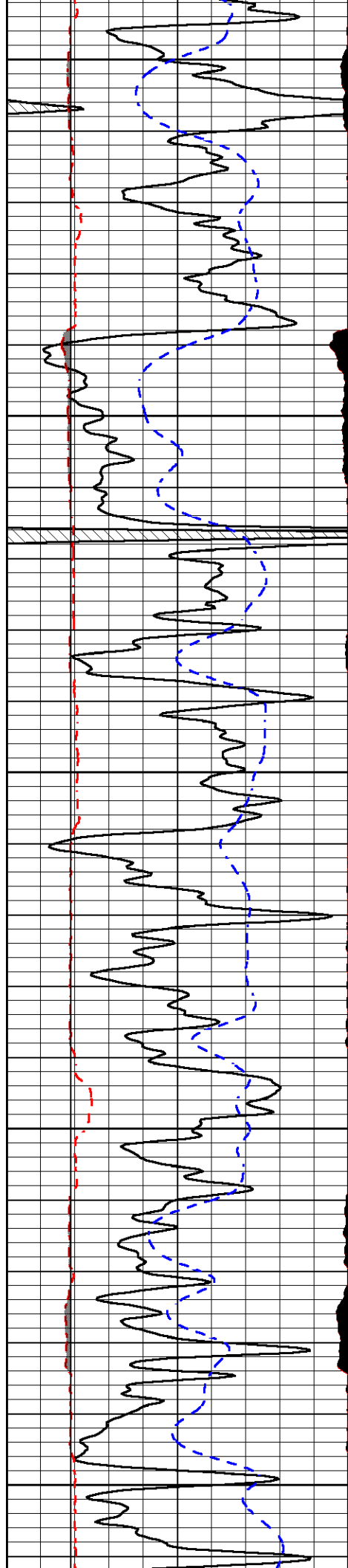
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2900

2950

3000





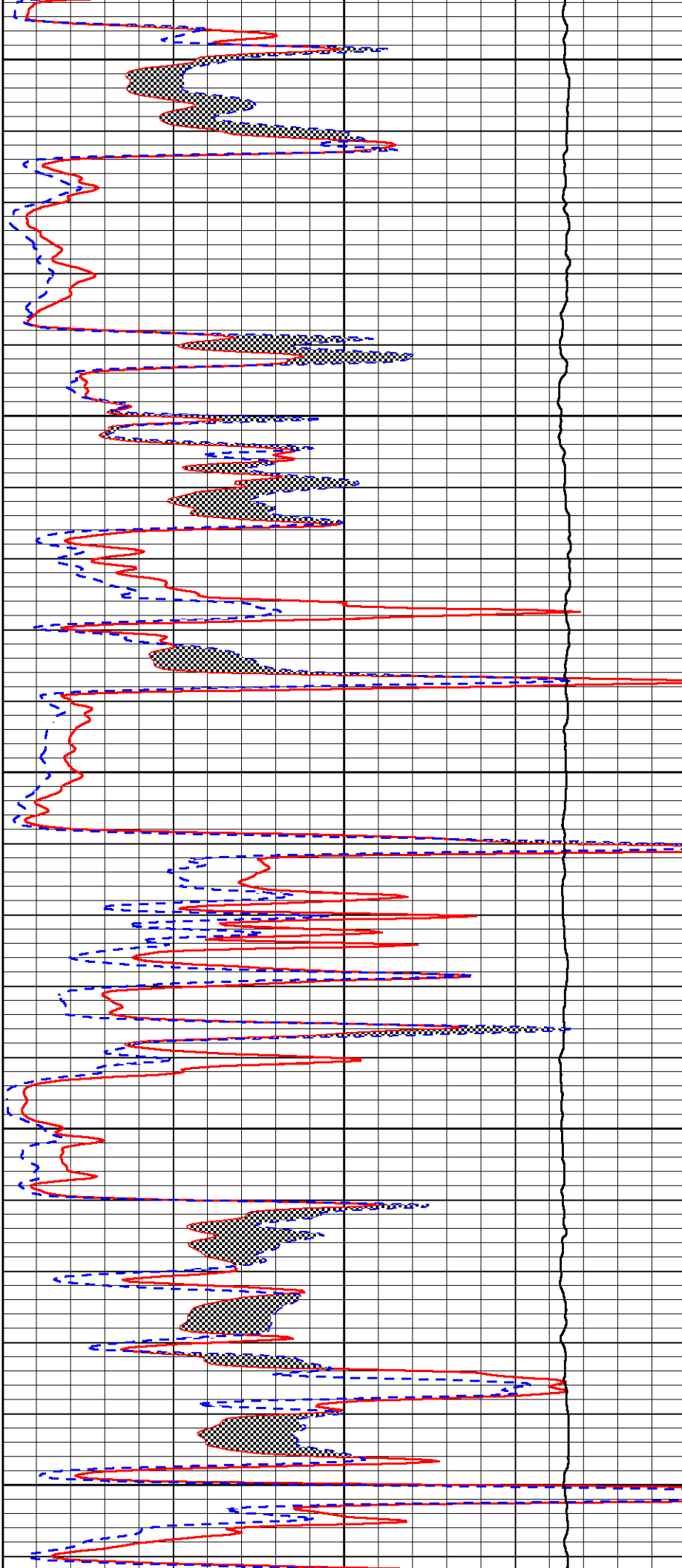
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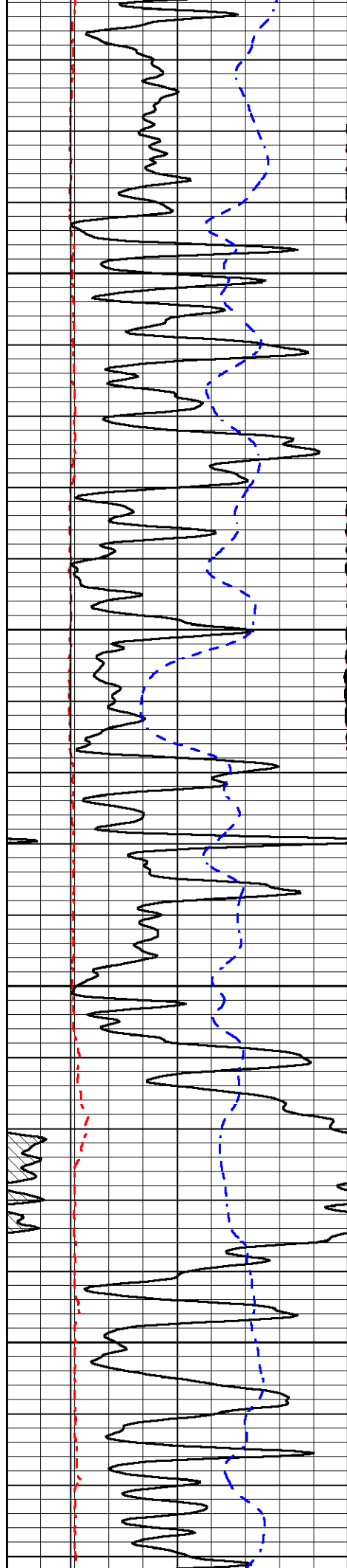
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3150

3200

3250



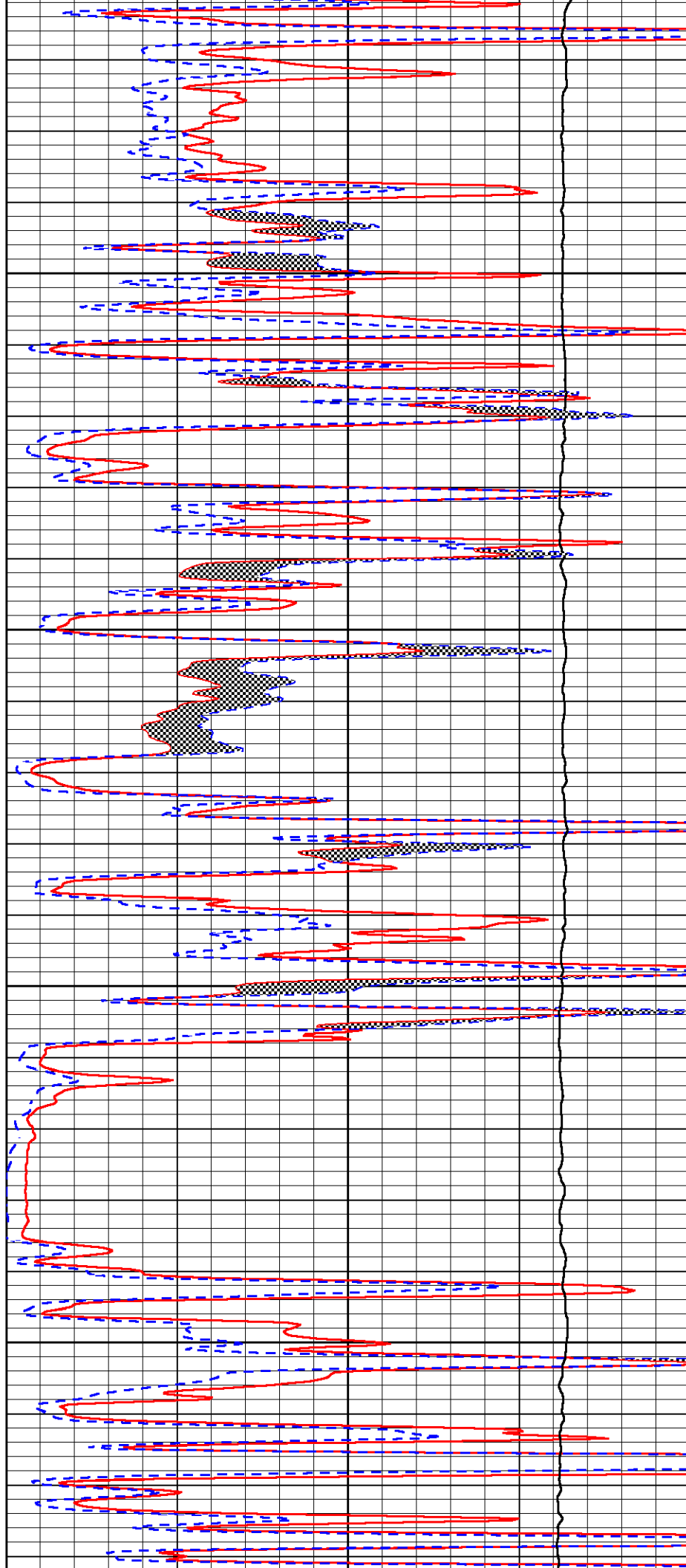


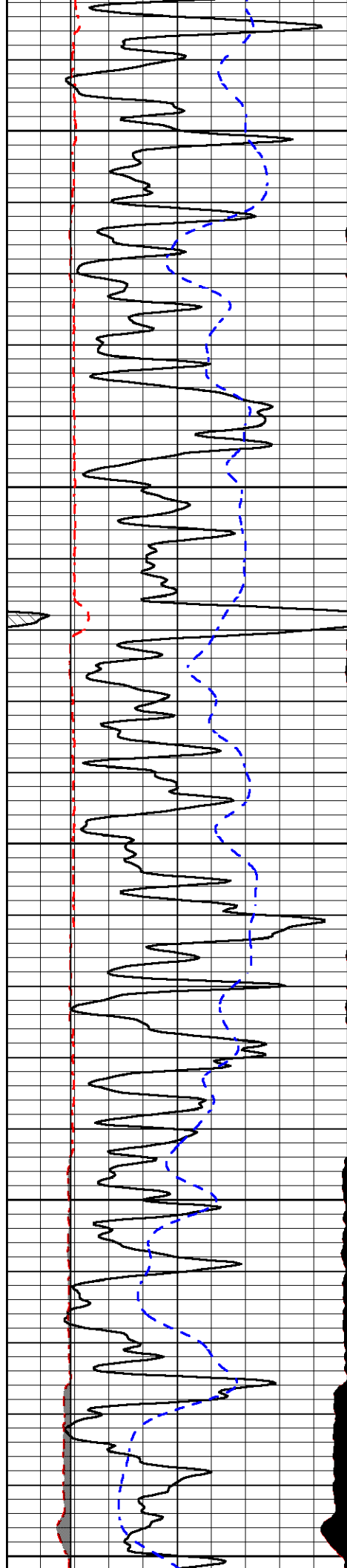
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3350

3400

3450





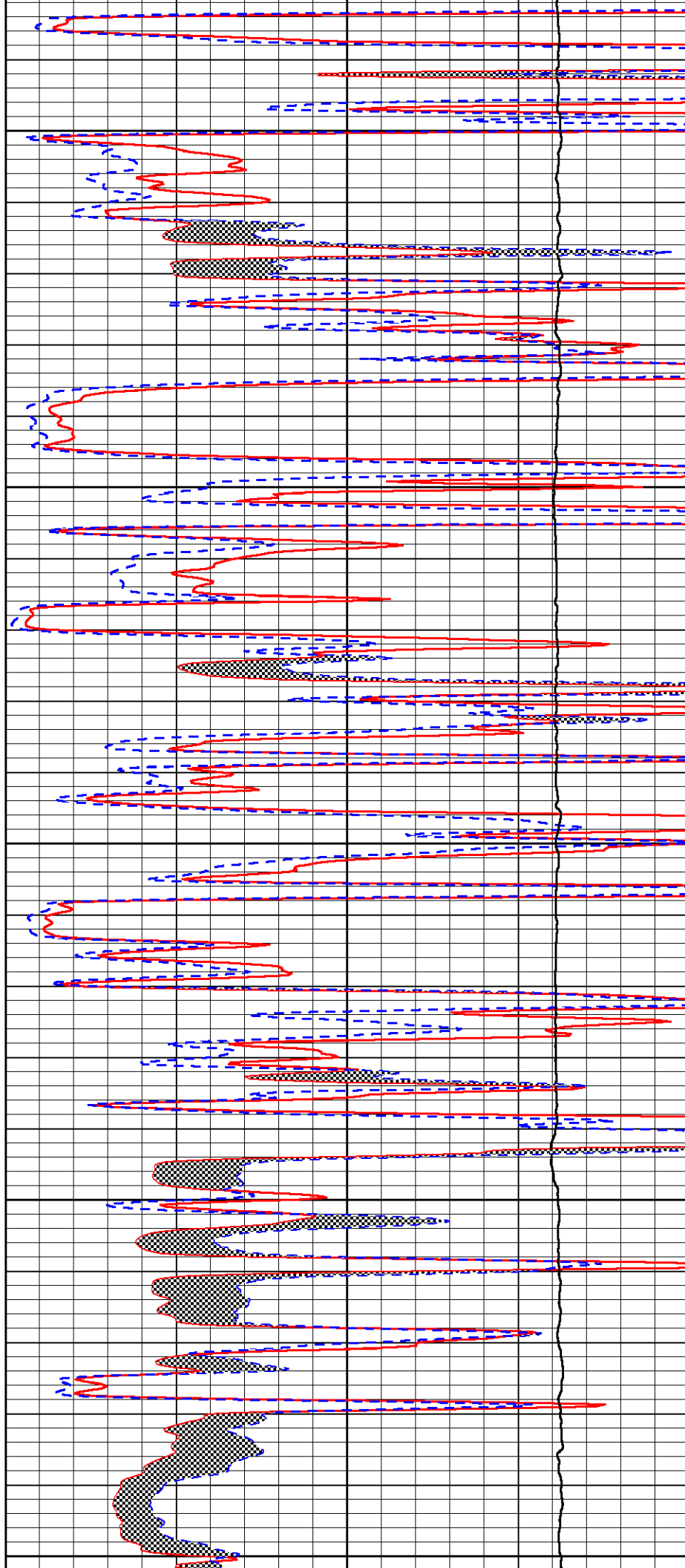
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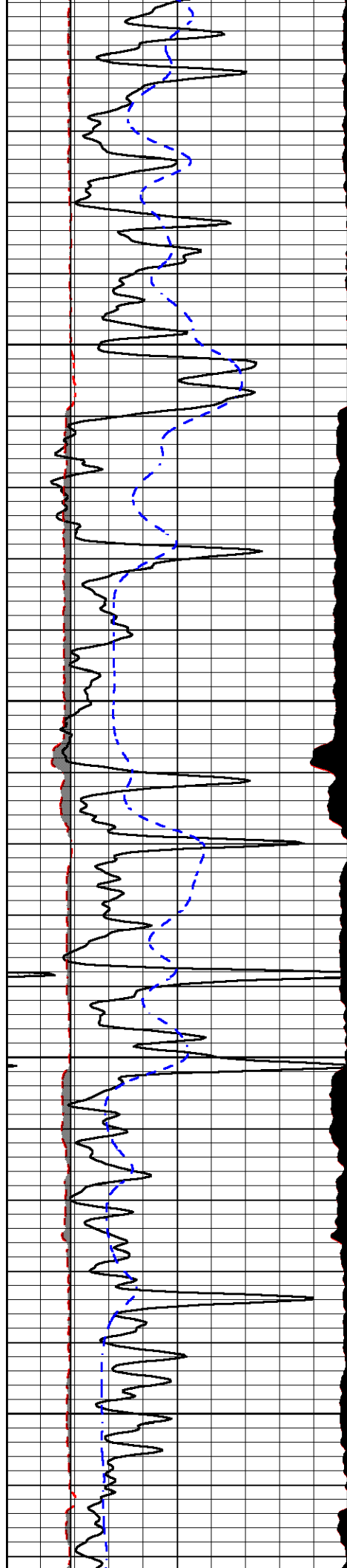
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3600

3650

3700



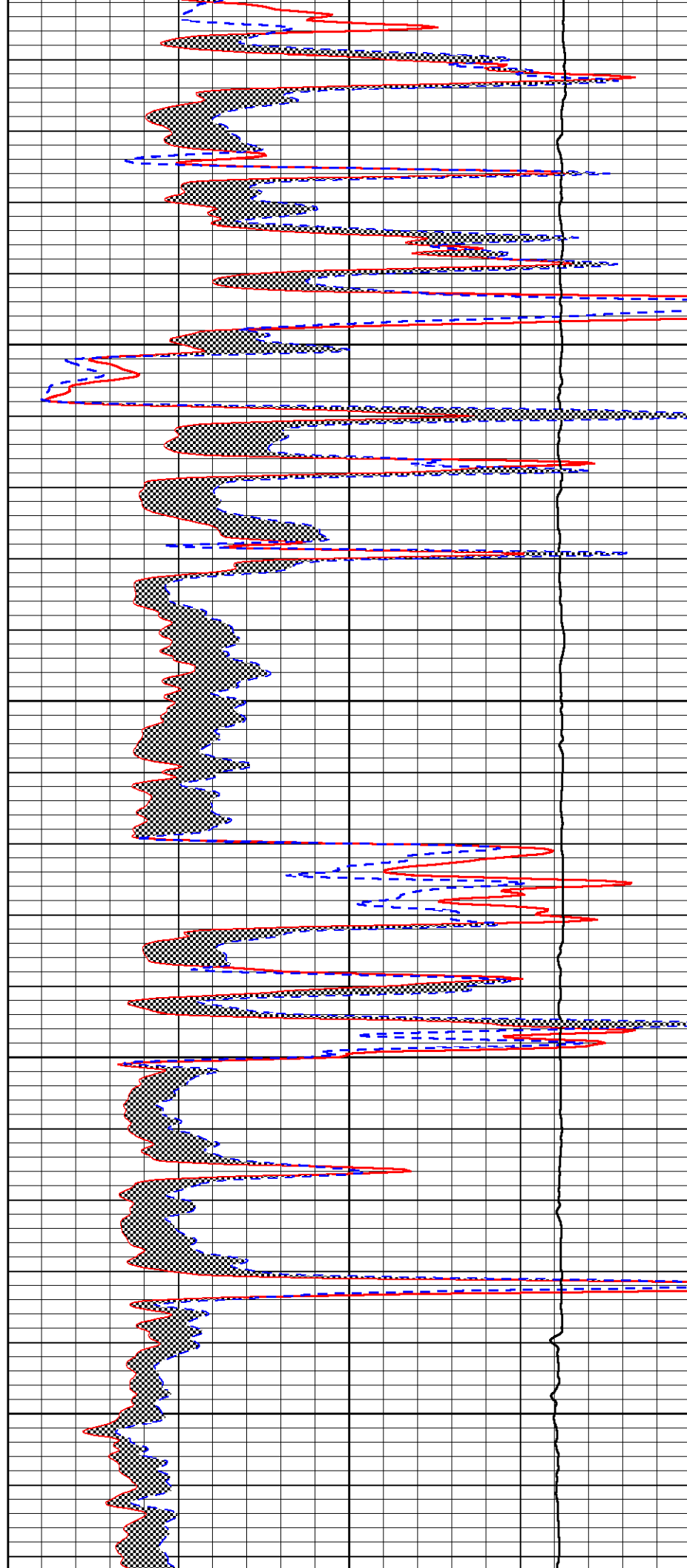


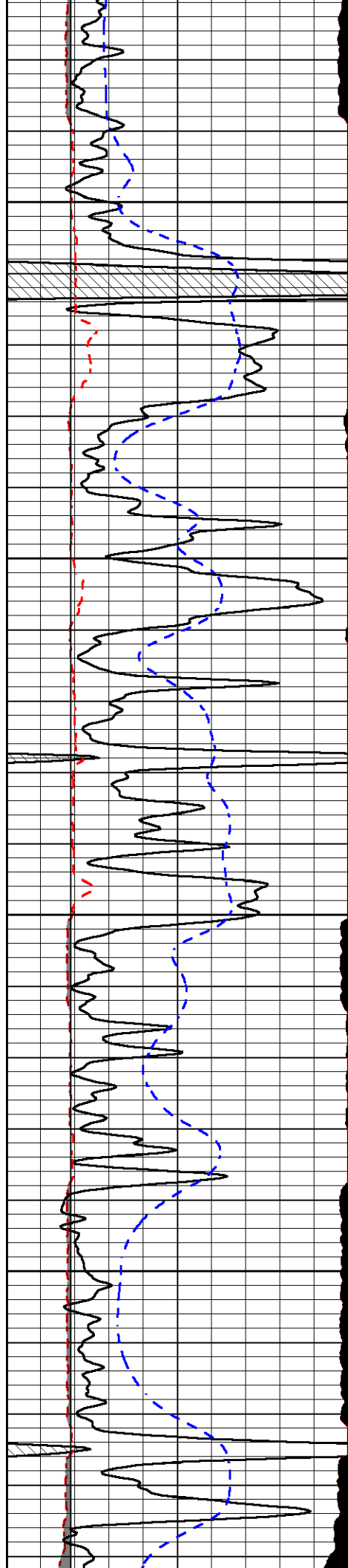
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3800

3850

3900



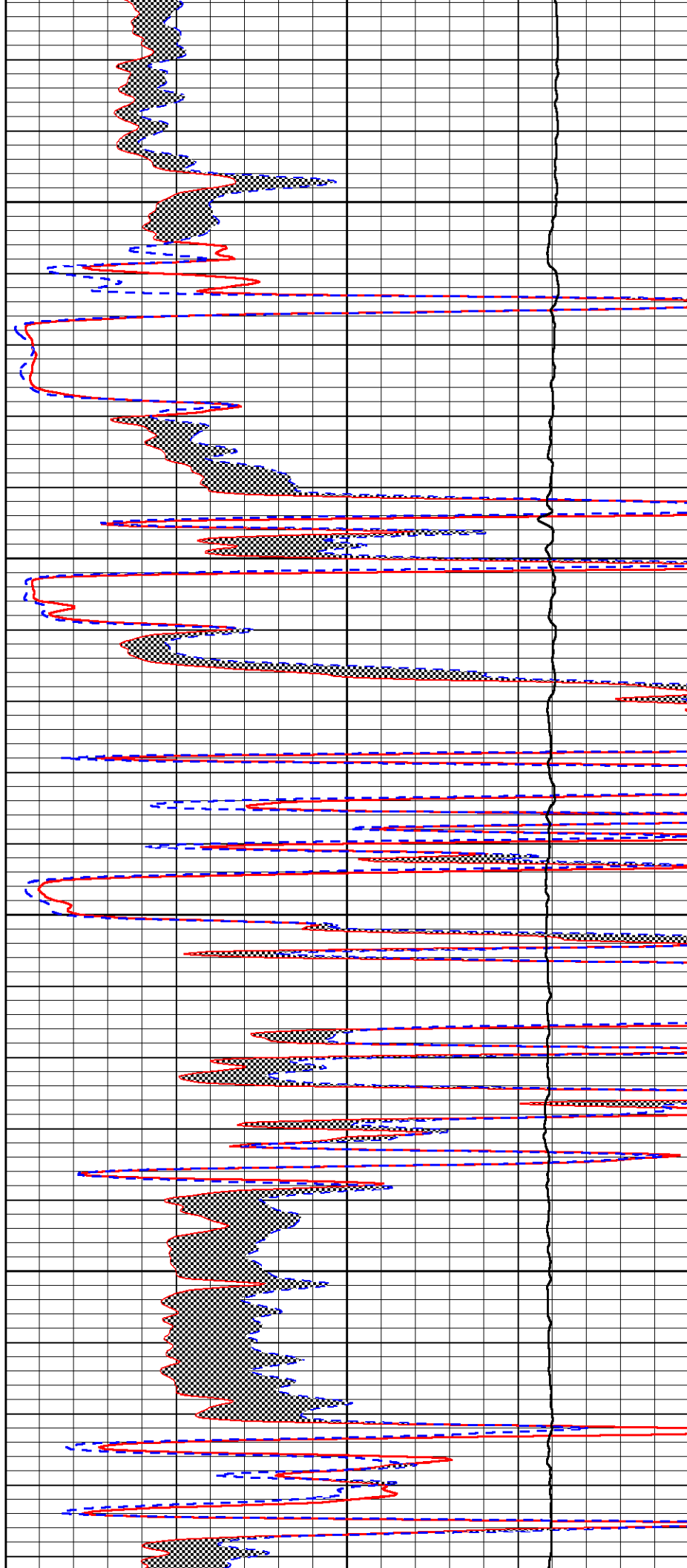


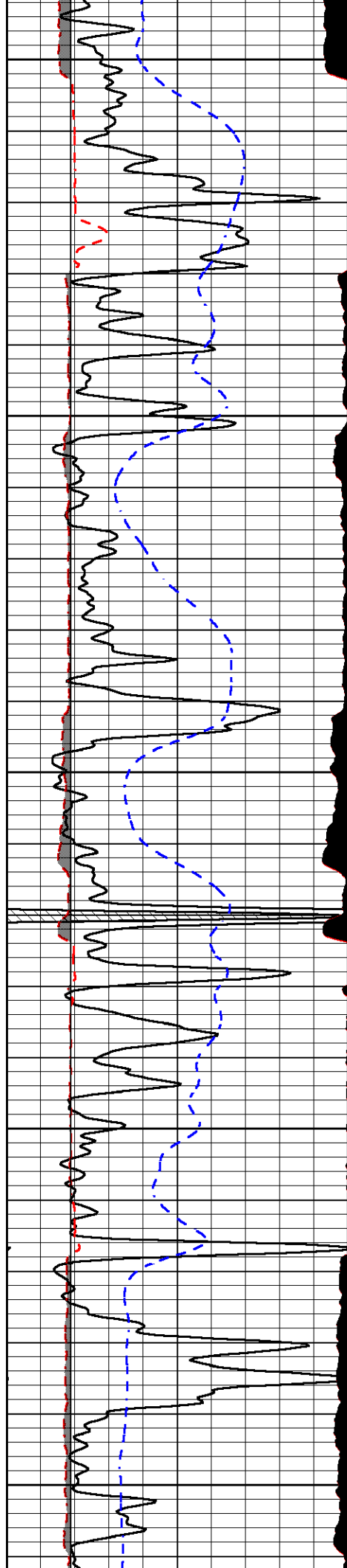
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4000

4050

4100





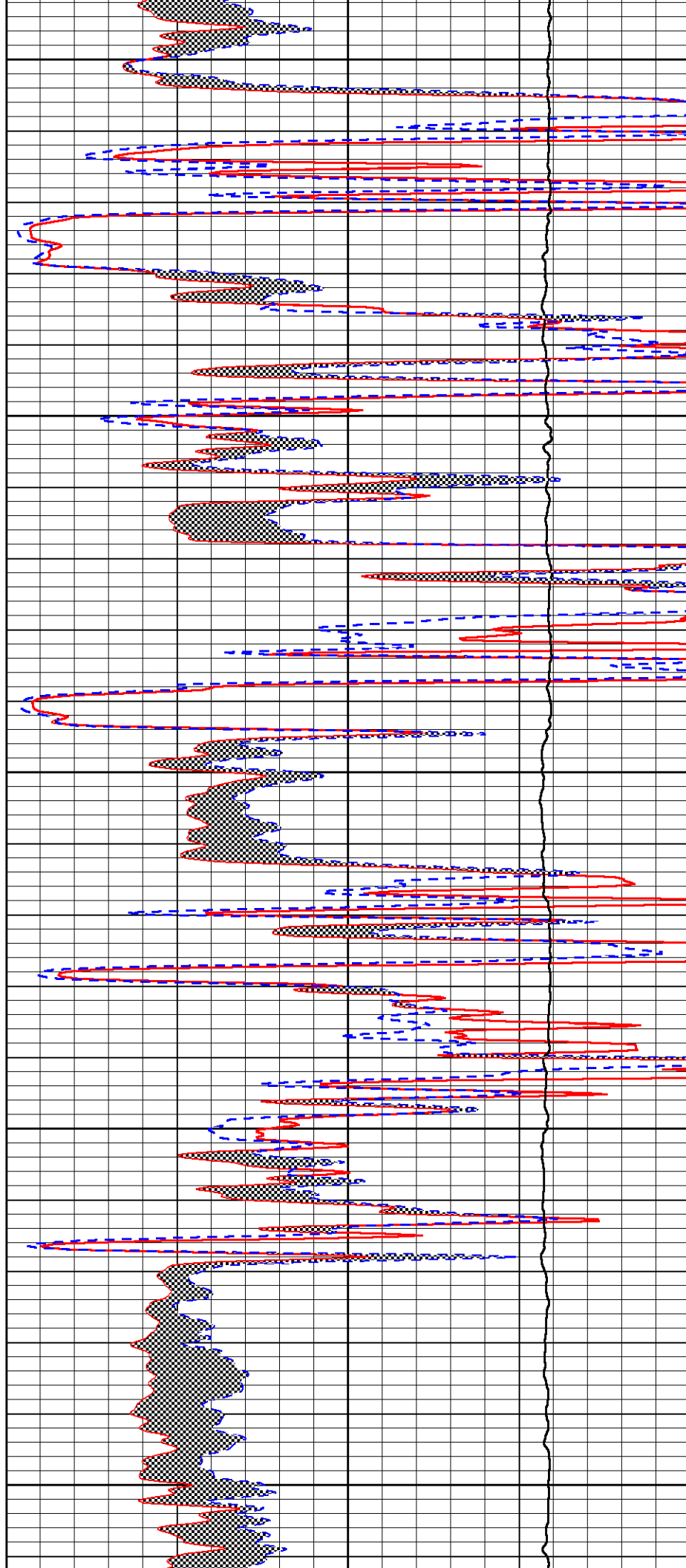
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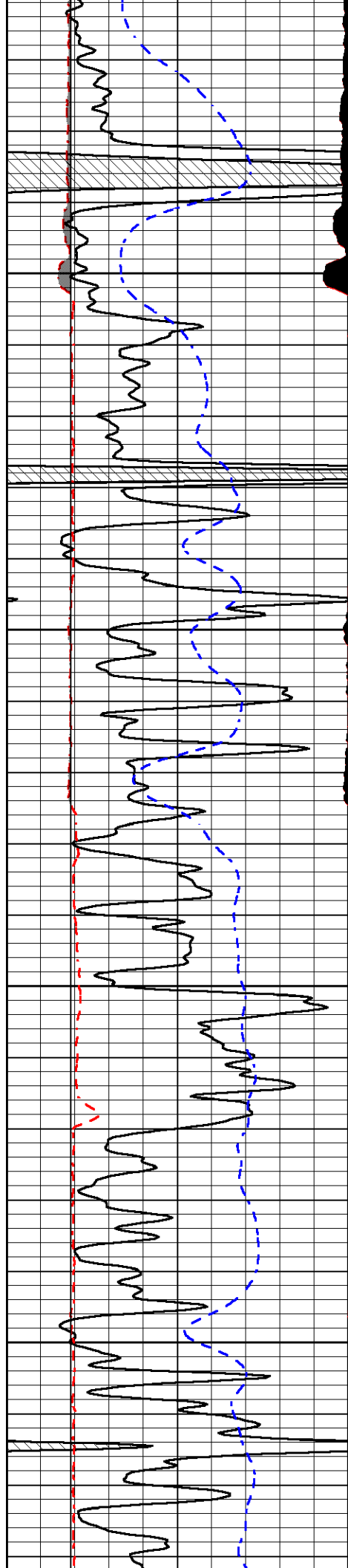
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4250

4300

4350



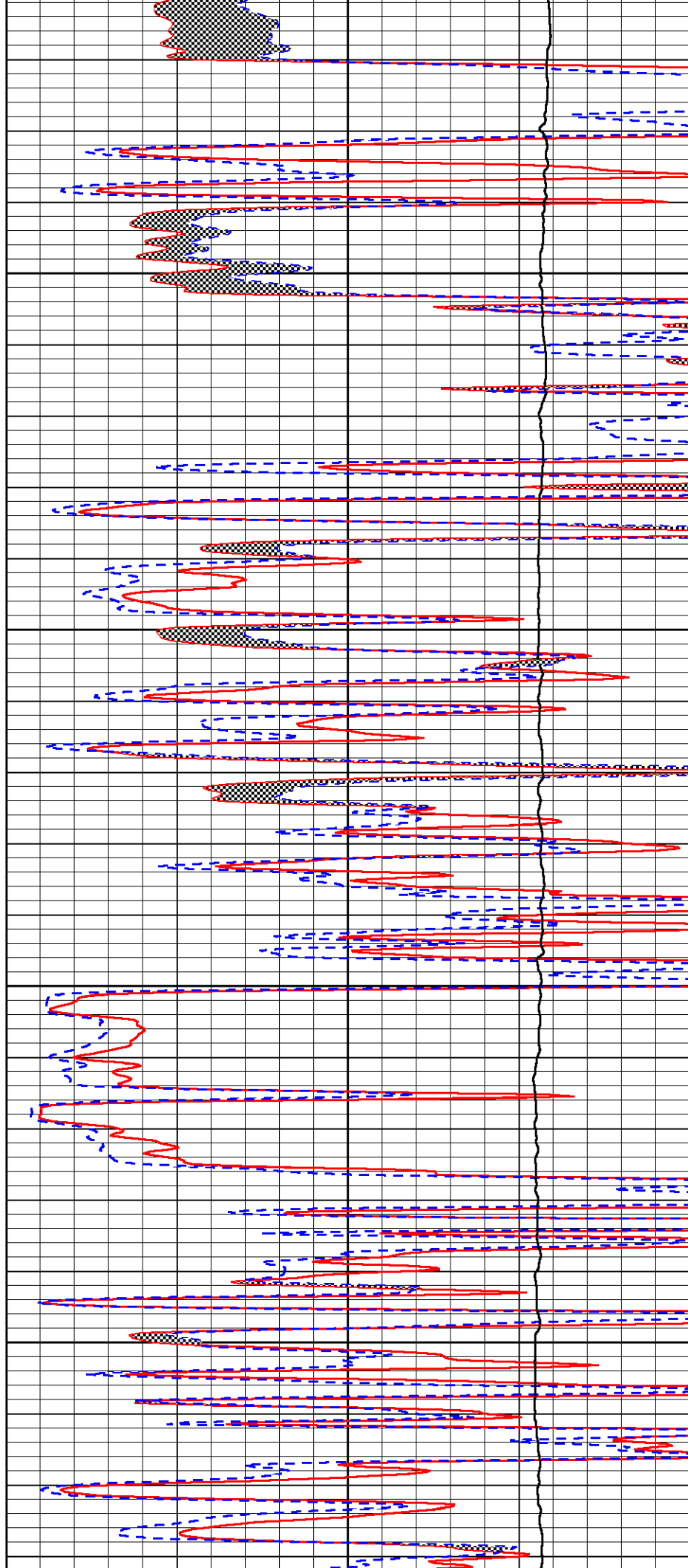


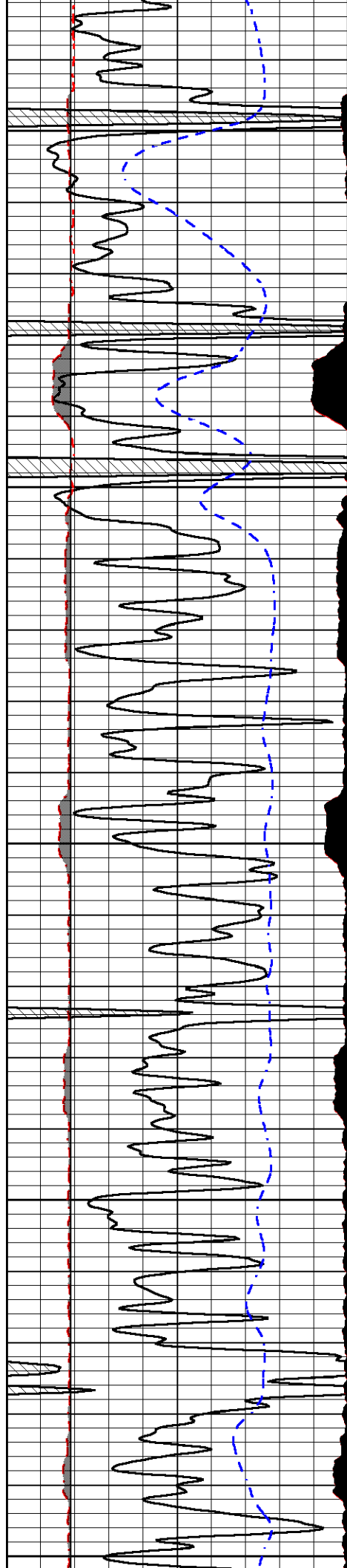
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4450

4500

4550





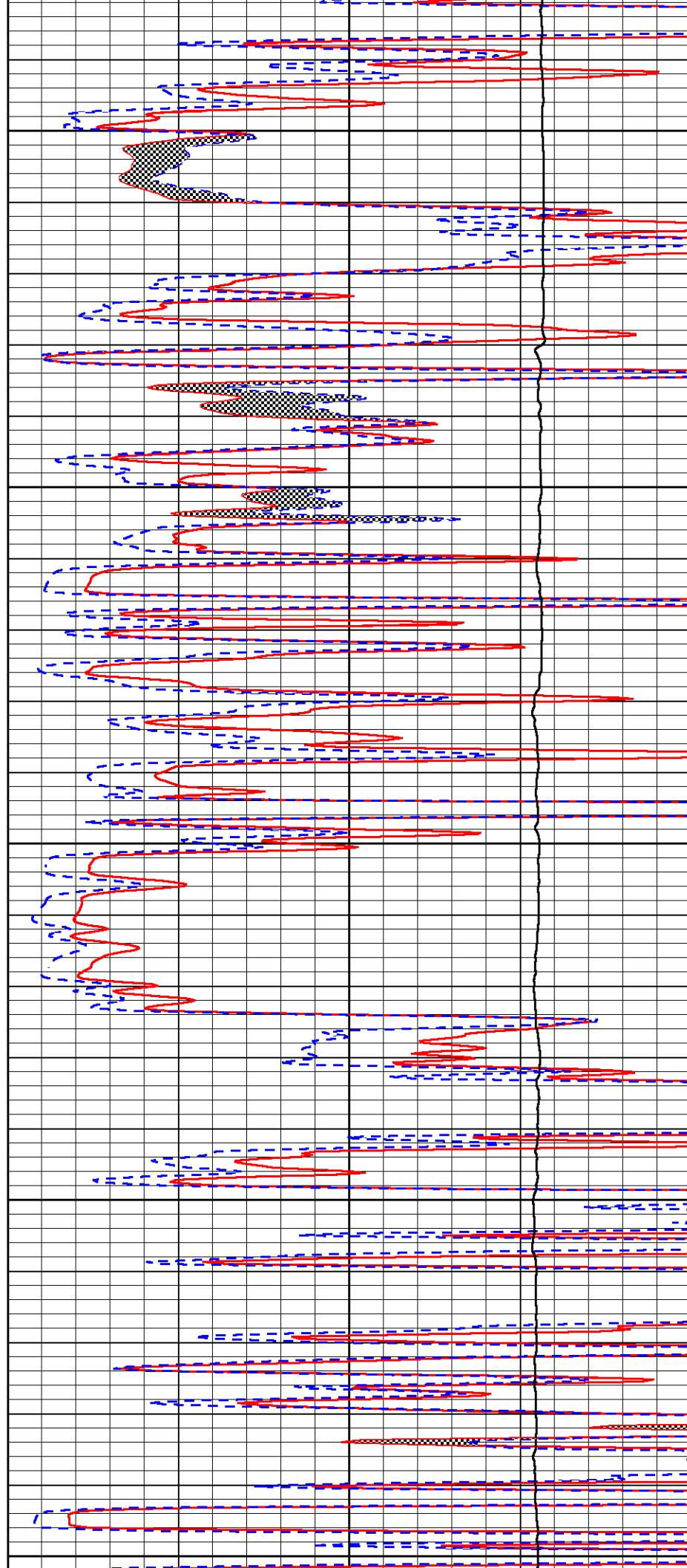
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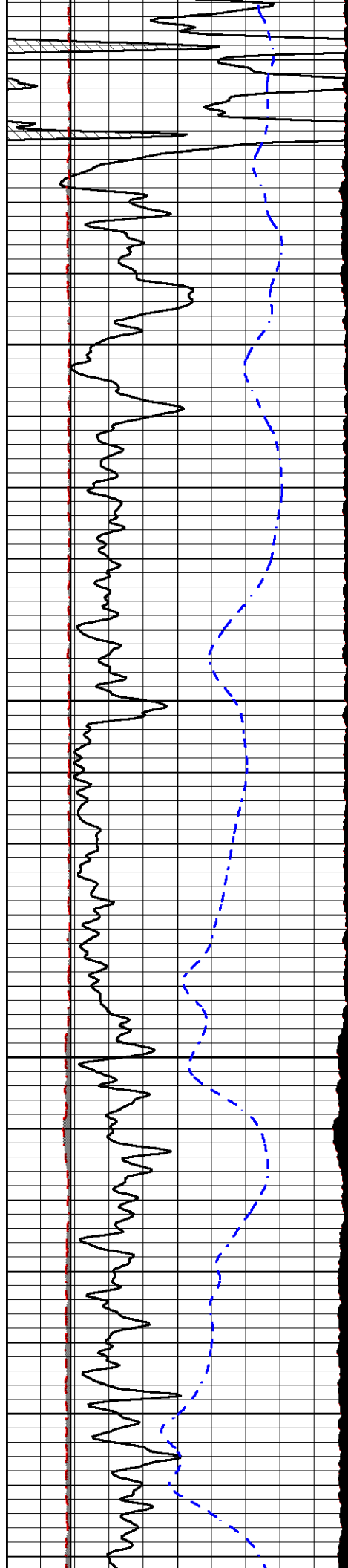
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4700

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4800



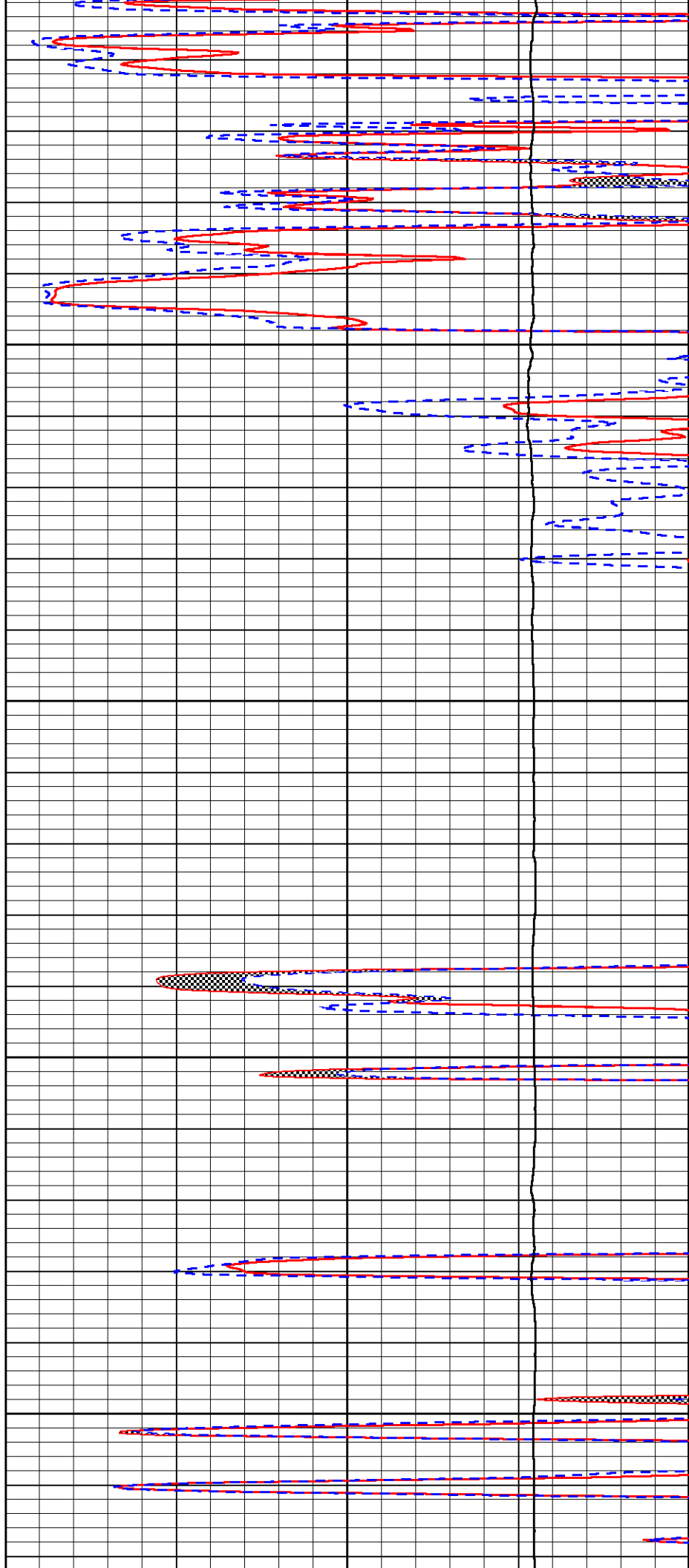


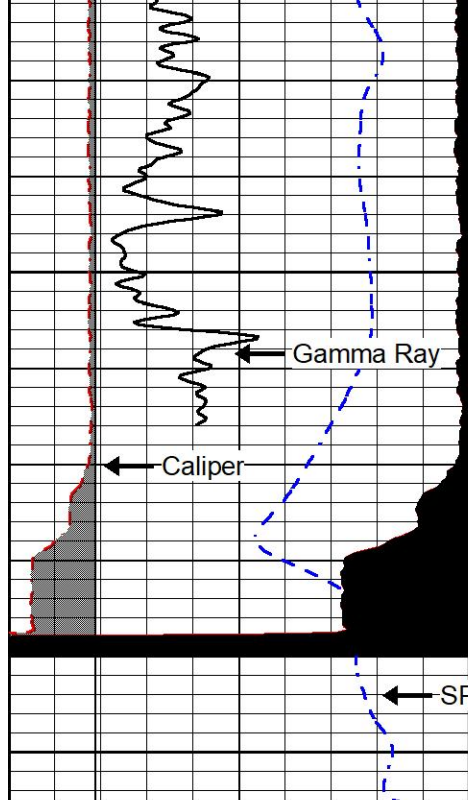
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4900

4950

5000

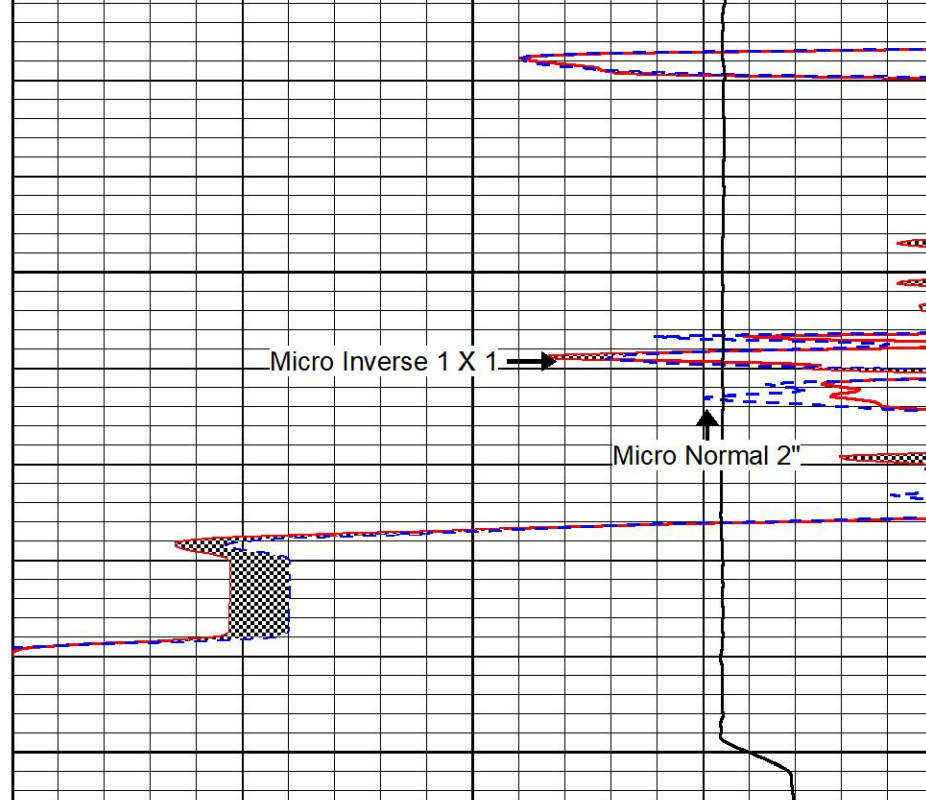




0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

5050

5100



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



MIDWEST WIRELINE

REPEAT SECTION

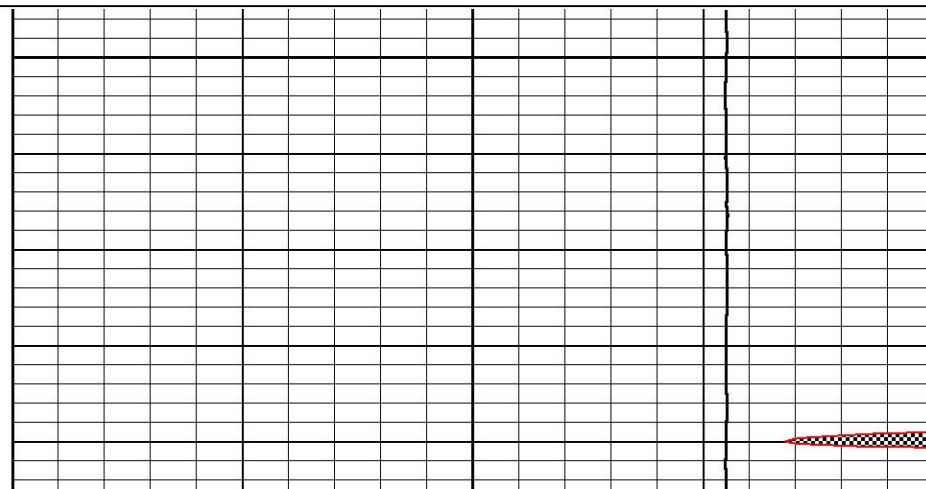
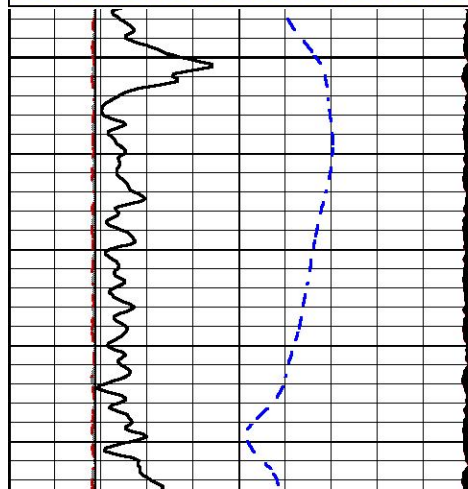
REPEAT PASS

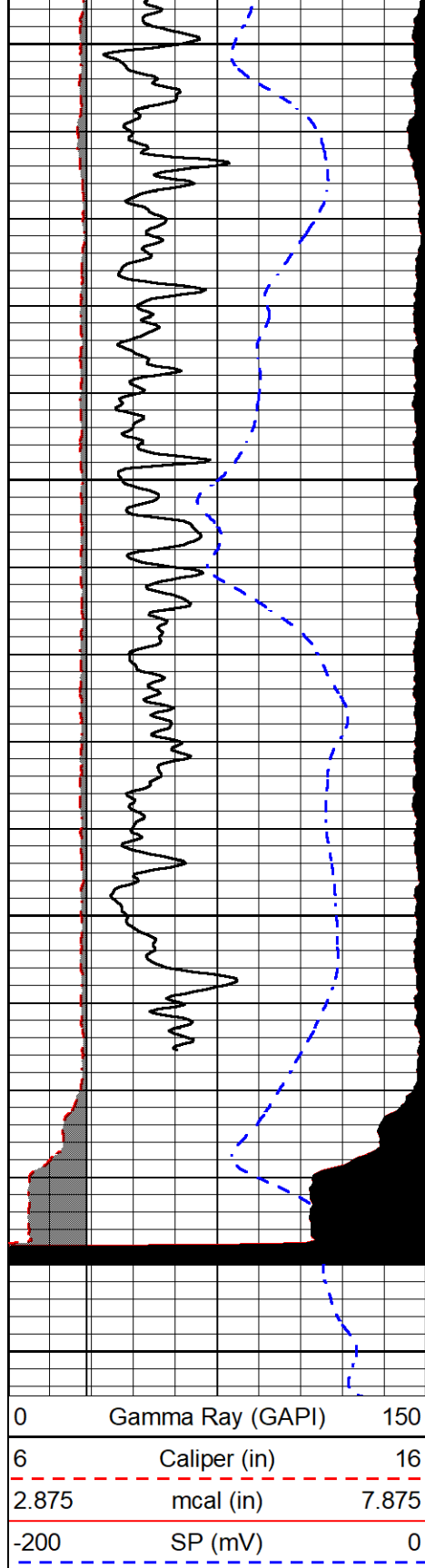
Database File american_warrior_hicks_a_2_24.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _micro
 Dataset Creation Sun Feb 13 01:03:33 2022
 Charted by Depth in Feet scaled 1:240

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

4900

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



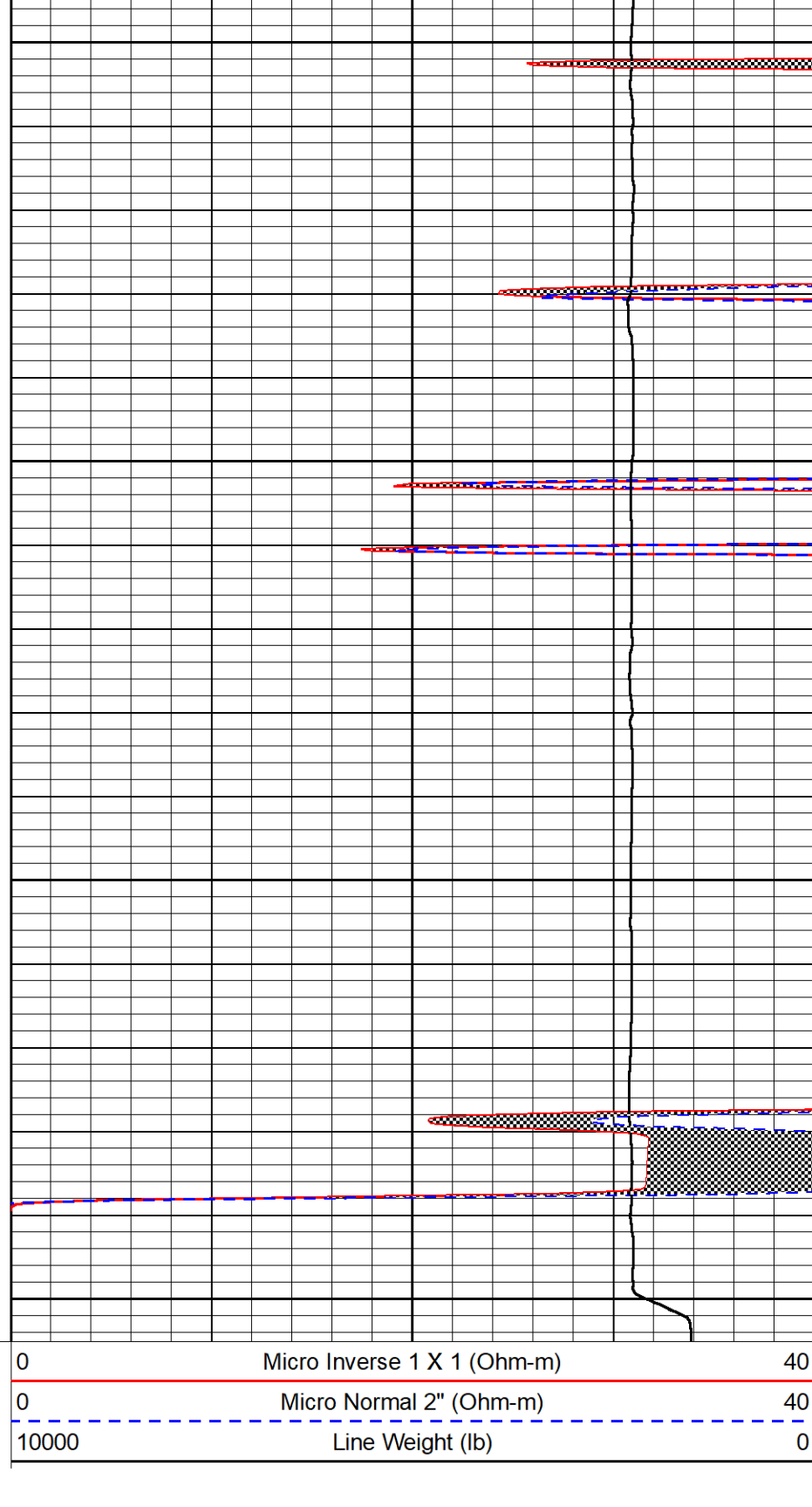


4950

5000

5050

5100



Calibration Report

Database File american_warrior_hicks_a_2_24.db
 Dataset Pathname stackml/pass4.1
 Dataset Creation Sun Feb 13 01:04:19 2022

Dual Induction Calibration Report

Serial-Model:
 Surface Cal Performed:

504 HT-M&W
 Thu Dec 16 22:32:49 2021

Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model:	402-PSI STKBL ML
Performed:	Thu Dec 16 22:29:48 2021

Readings			References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	8000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	7000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Thu Dec 16 23:28:34 2021

Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		3841.78		5151.73	cps
Aluminum	2.670	g/cc		700.98		3068.49	cps
Spine Angle = 73.06				Density/Spine Ratio = 0.515			
	Size			Reading			
Small Ring	4.00	in		1.17			
Large Ring	14.00	in		1.05			

Compensated Neutron Calibration Report

Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 2021

Master 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	

Gamma Ray Calibration Report

Serial Number:	103
Tool Model:	M&W
Performed:	Fri Dec 3 12:13:24 2021
Calibrator Value:	500.0
Background Reading:	28.0
Calibrator Reading:	222.0
Calibrator Model:	GAPI
Calibrator Unit:	cps

Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps



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