

MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Griffin Management, LLC
Well Madelyn #2 OWWO
Field Turkey Creek East
County Barber
State Kansas

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Well Madelyn #2 OWWO
Field Turkey Creek East
County Barber State Kansas

Location: API #: 15-007-21982-00-01

324 FSL & 973 FEL

SEC 16 TWP 30S RGE 15W

Permanent Datum Ground Level Elevation 1876
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL
K.B. 1881
D.F.
G.L. 1876

Date 7/19/2024

Run Number

One

Depth Driller

4878

Depth Logger

4876

Bottom Logged Interval

4875

Top Log Interval

2800

Casing Driller

8.625 @ 984

Casing Logger

975

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

6000

Density / Viscosity

8.7 58

pH / Fluid Loss

10.0 10.4

Source of Sample

FLOWLINE

Rm @ Meas. Temp

0.30 @ 72

Rmt @ Meas. Temp

0.23 @ 72

Rmc @ Meas. Temp

0.41 @ 72

Source of Rmt / Rmc

CHARTS

Rm @ BHT

0.17 @ 125

Operating Rig Time

3 Hours

Max Rec. Temp. F

125

Equipment Number

110

Location

HAYS

Recorded By

D. Schmidt

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,
South to 110, 1 East,
South 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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Eli Felts
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.23		GR-M&W (105)	3.00	3.50	50.00	
CNLSC CNSSC	37.13 36.38		CNT-M&W (210)	5.00	3.50	100.00	
			MWLith-STEP LITHO Short (703-03)	8.40	5.00	250.00	
LCAL	28.21			ML-PSI STKBL ML (402)	7.58	4.00	65.00
LLW8N	28.21						
LLW7N	28.21						
LLW6N	28.21						
LLW5N	28.21						
LLW4N	28.21						
LLW3N	28.21						
LLW2N	28.21						
LLW1N	28.21						
LSLOCK	27.96						
LLLOCK	27.96						
PELTMPR	27.96						
LSHVNG	27.96						
LLHVNG	27.96						
LSW8N	27.71						
LSW7N	27.71						
LSW6N	27.71						
LSW5N	27.71						
LSW4N	27.71						
LSW3N	27.71						
LSW2N	27.71						
LSW1N	27.71						
MCAL	19.58		DIL-M&W (506)	18.25	3.50	220.00	
MI	19.58						
MN	19.58						
RLL3F	15.50						
RLL3	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						

Dataset: griffin_madelyn 2 owwo.db: field/well/stkml/pass3.1
Total length: 42.23 ft
Total weight: 685.00 lb
O.D.: 5.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_madelyn 2 owwo.db
Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	125	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	4	-0.5	170	70	Off	4876

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



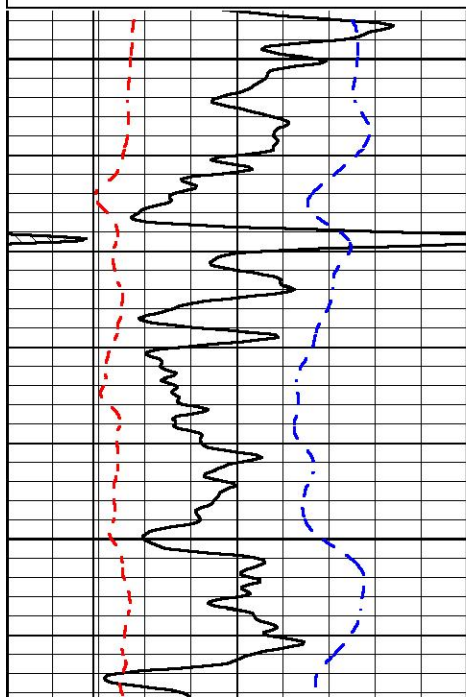
DETAIL SECTION

MAIN PASS

Database File griffin_madelyn 2 owwo.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Fri Jul 19 06:05:42 2024
Charted by Depth in Feet scaled 1:240

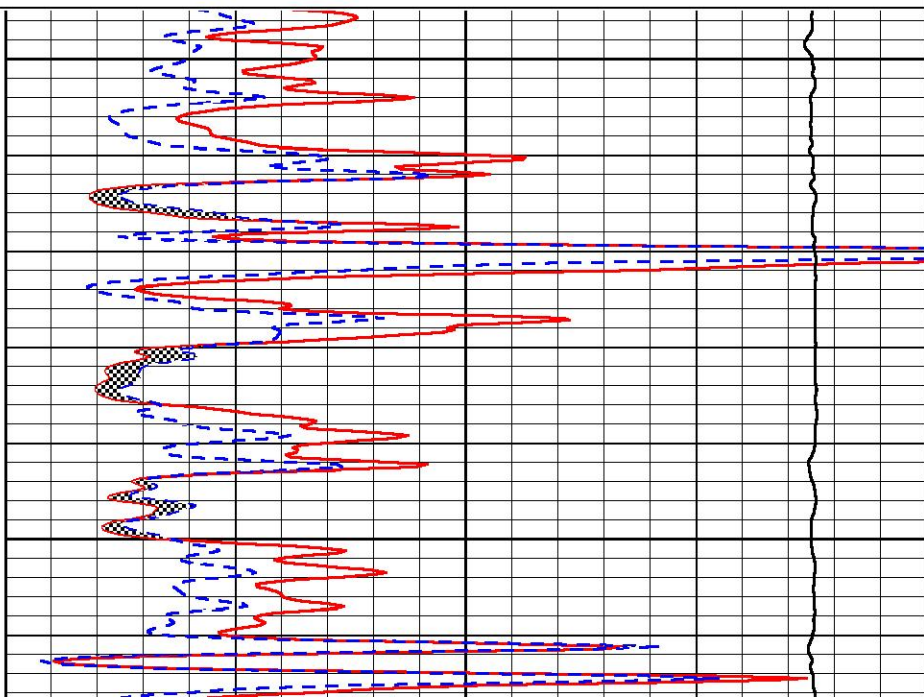
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

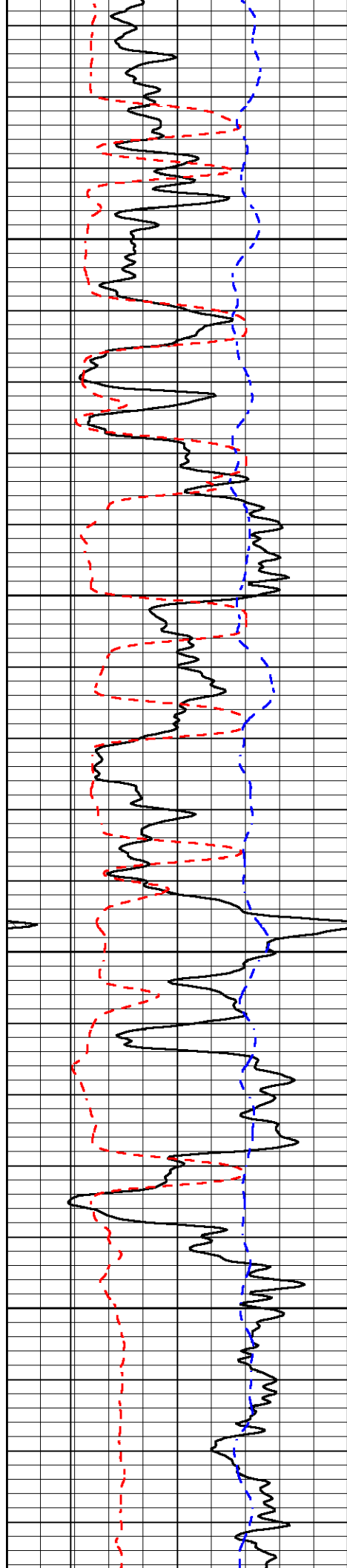
0	Micro Inverse 1 X 1 (Ohm-m)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0



2800

2850



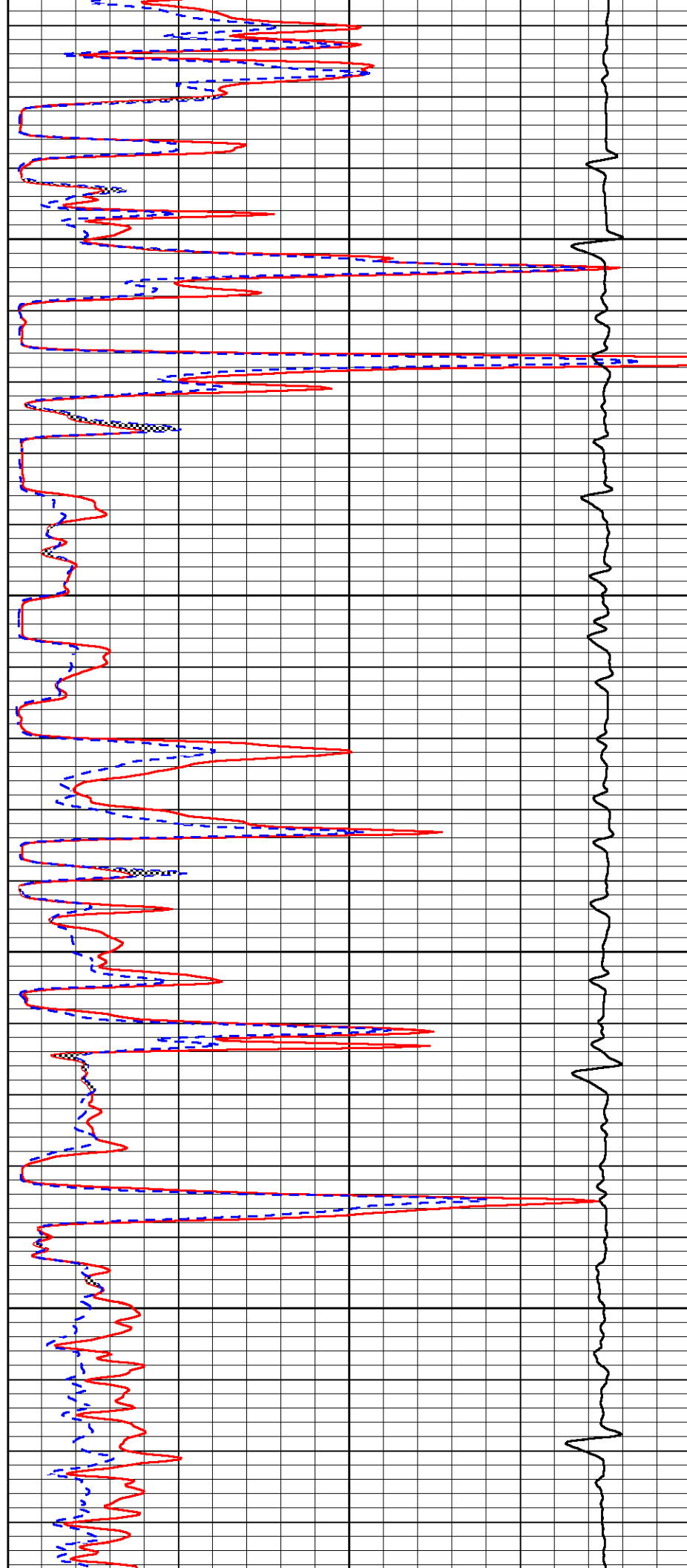


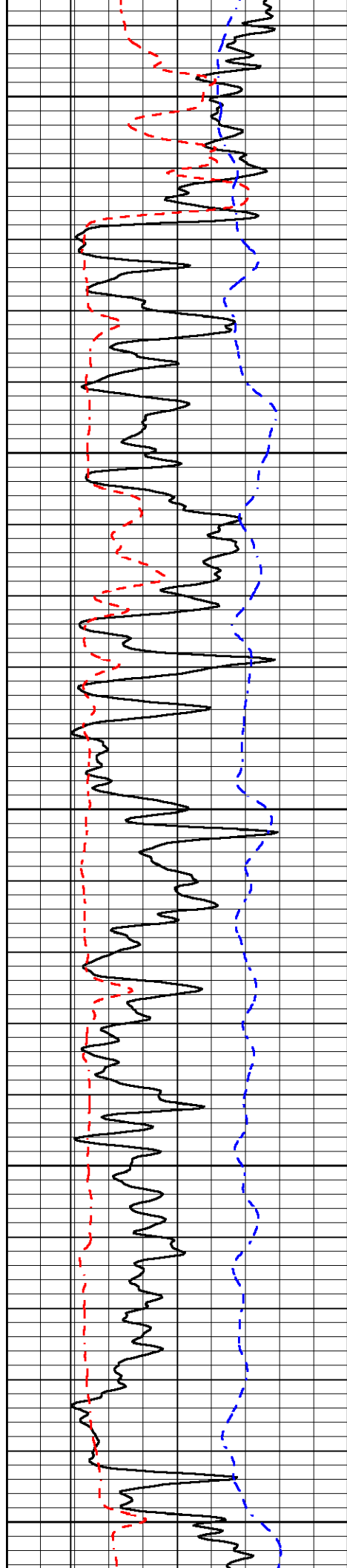
2900

2950

3000

3050





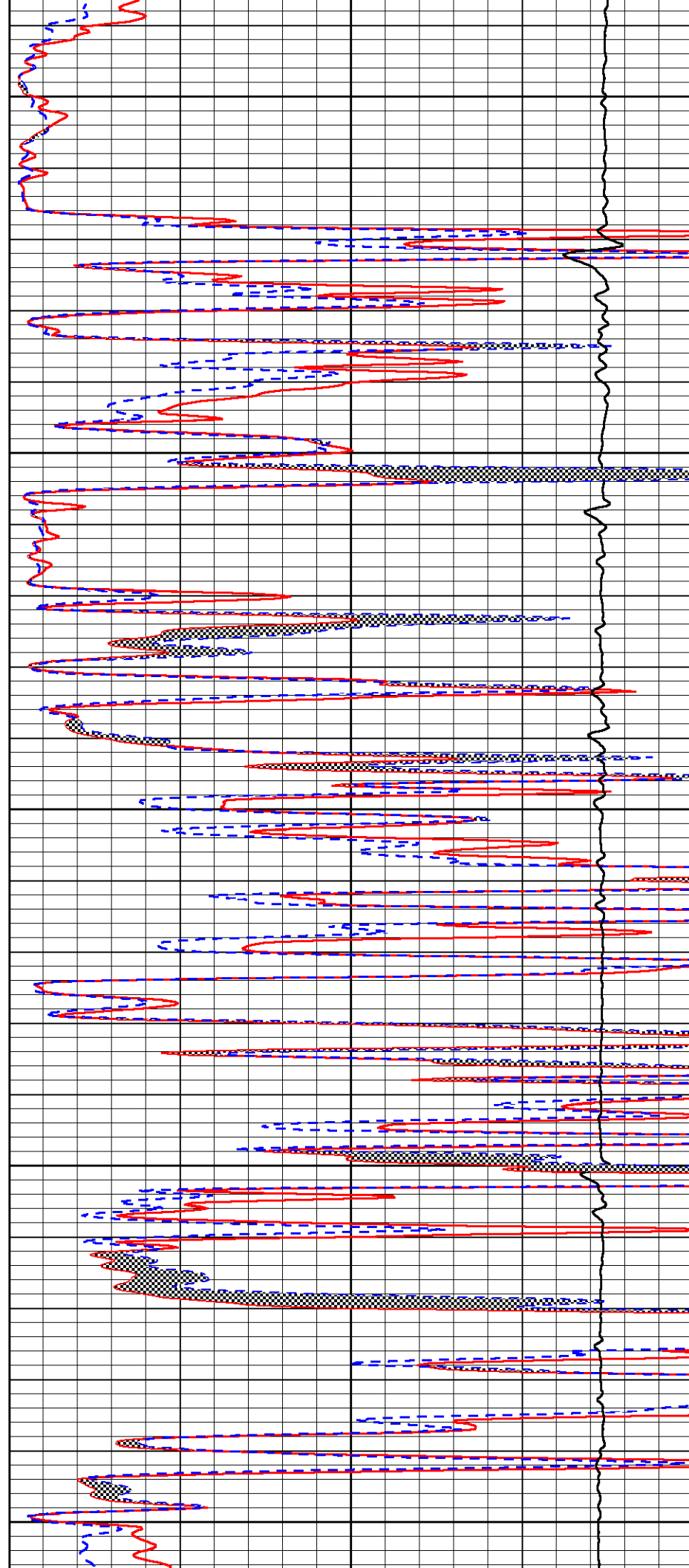
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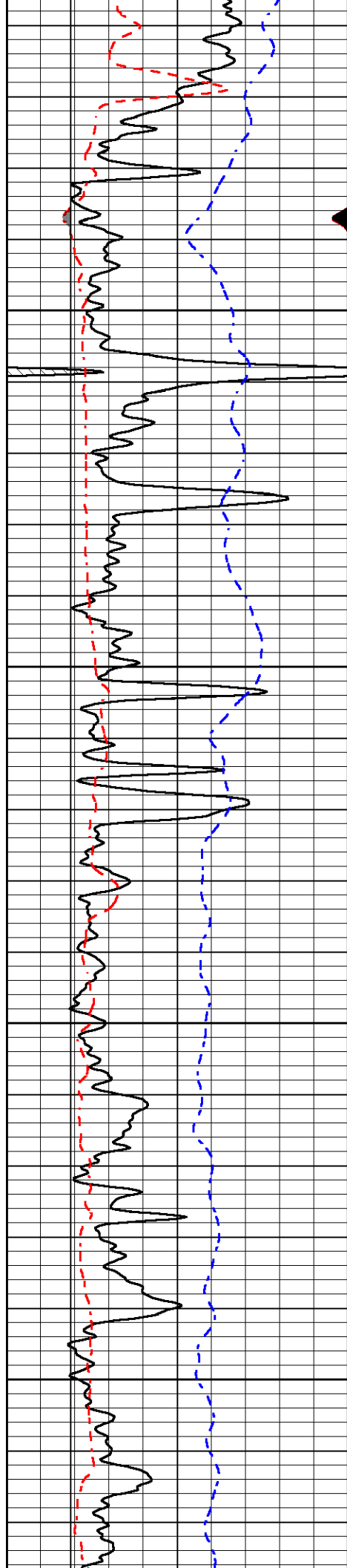
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3200

3250

3300



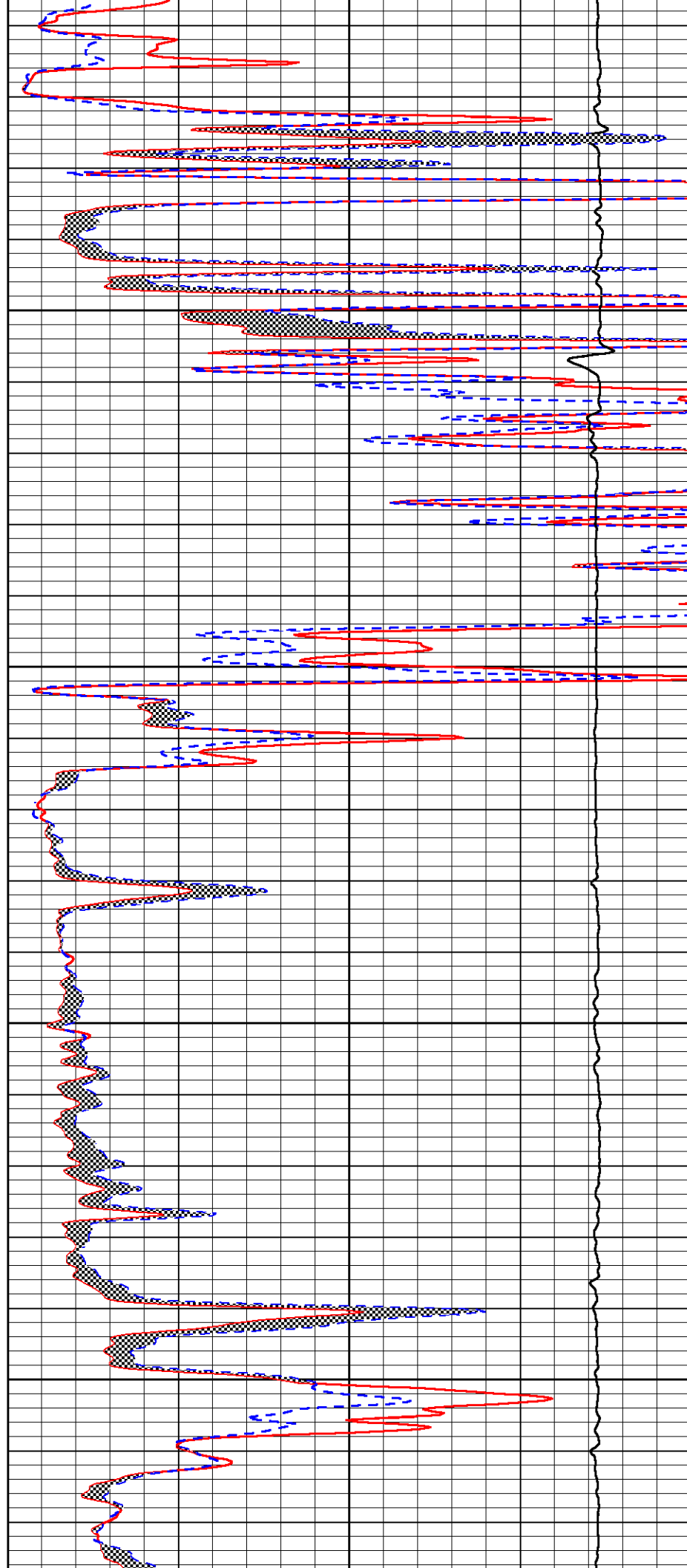


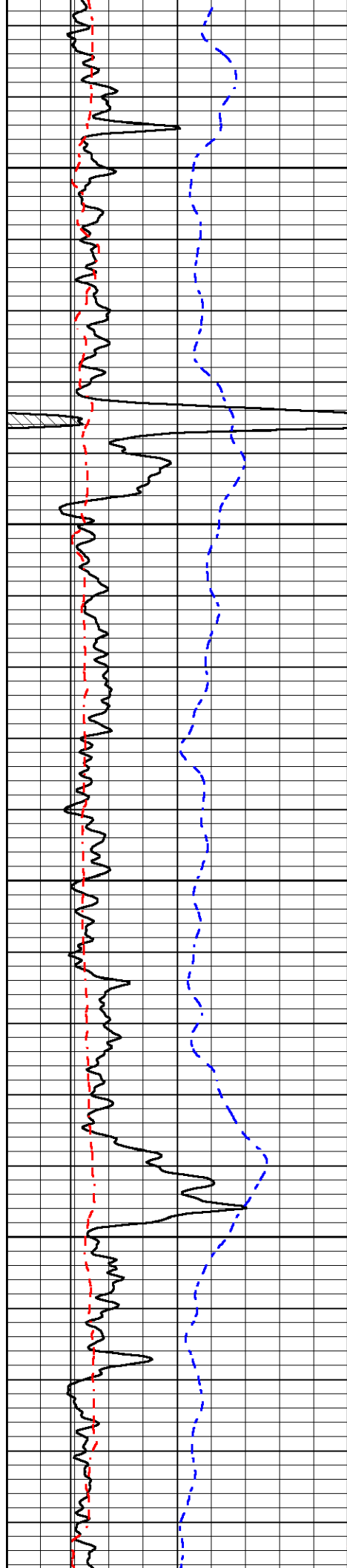
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3400

3450

3500



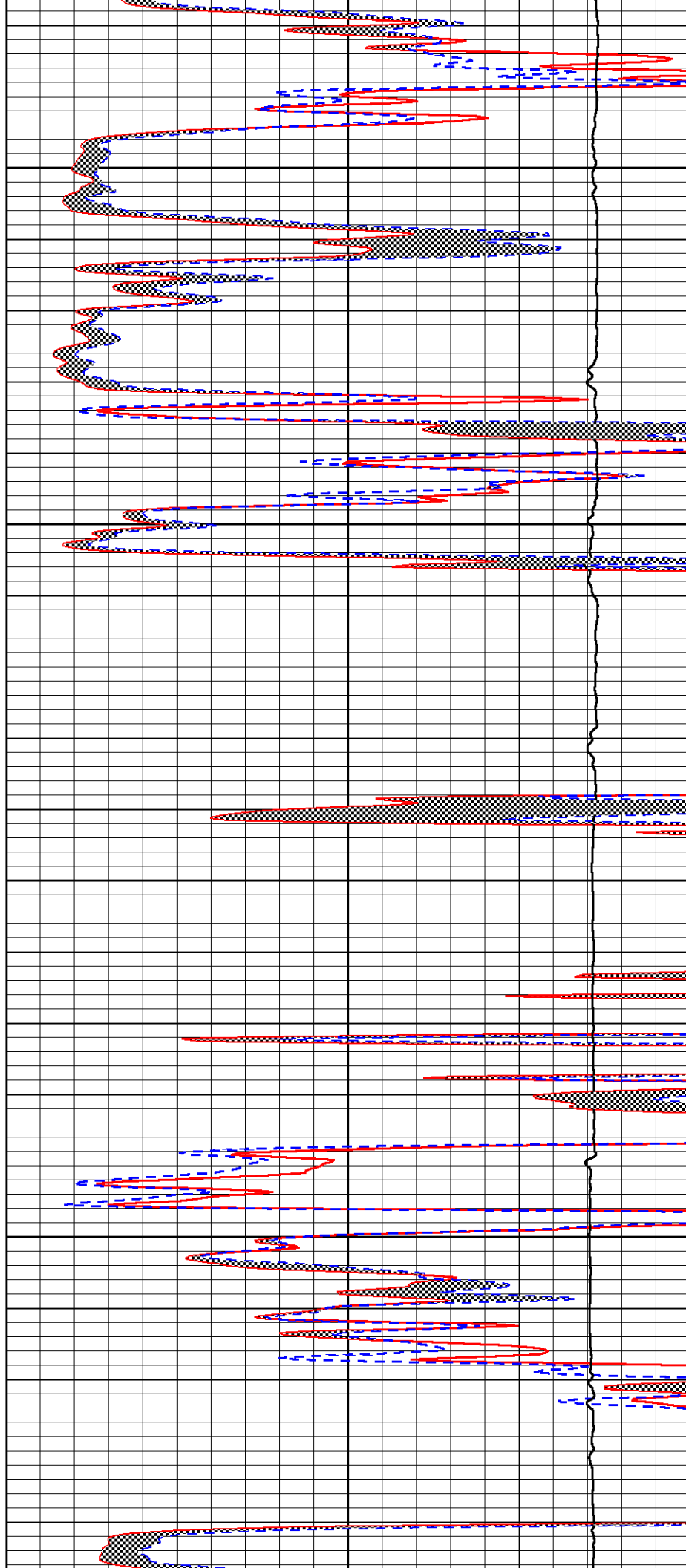


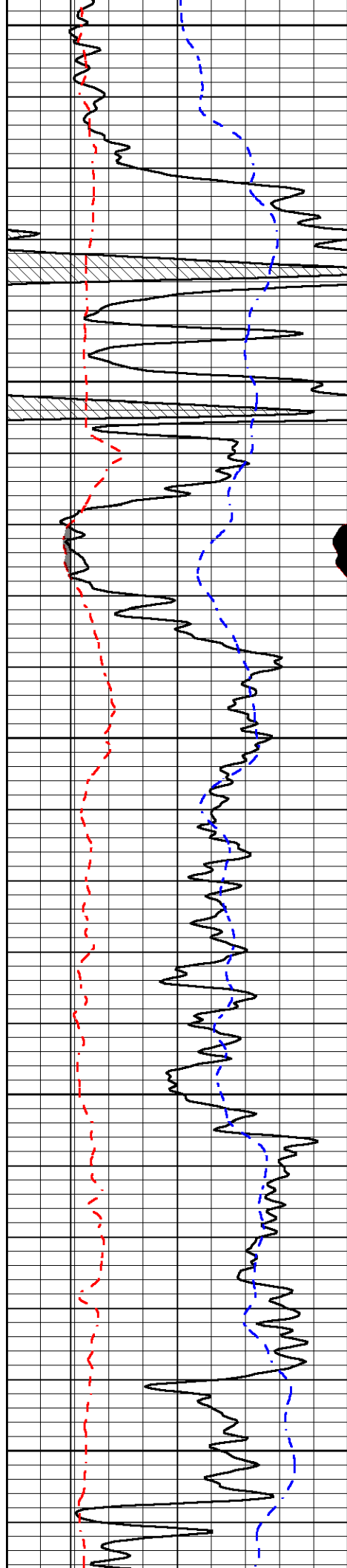
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3600

3650

3700





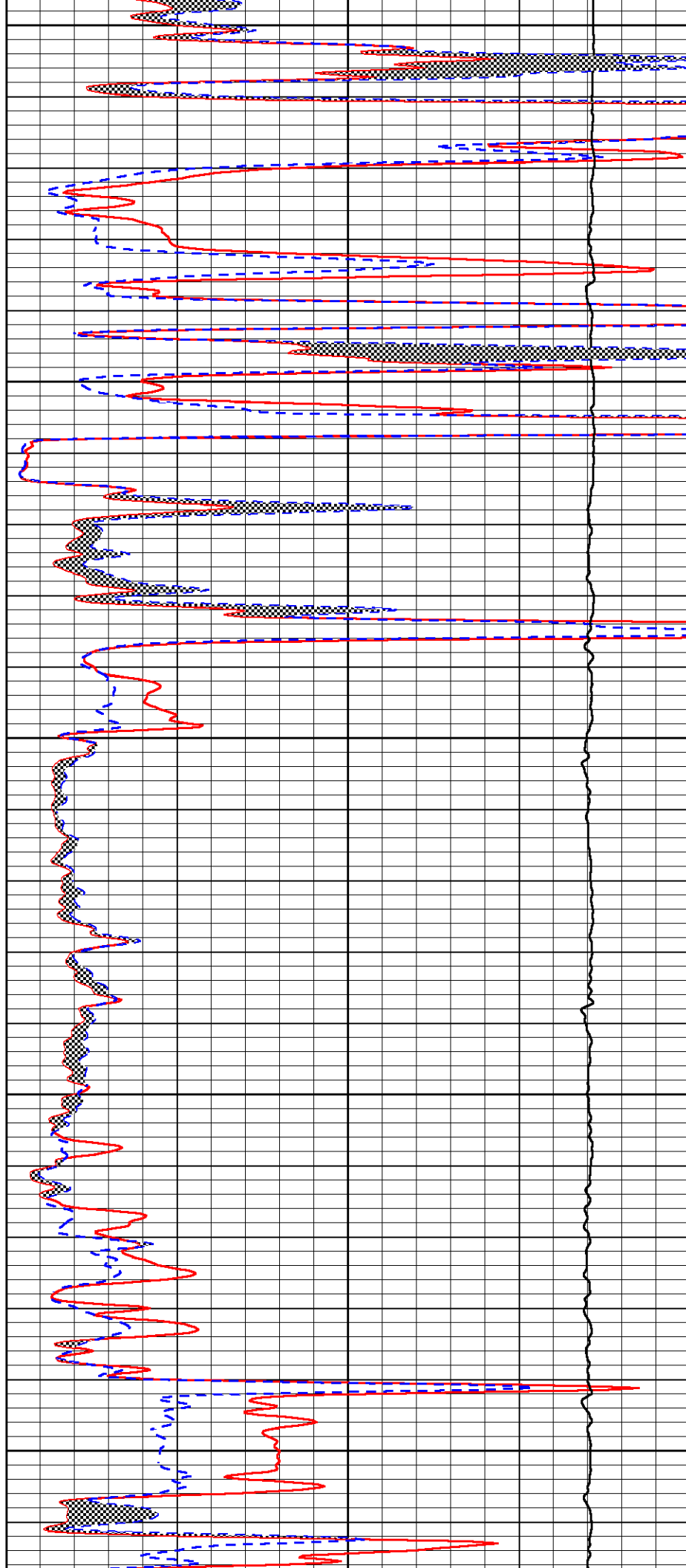
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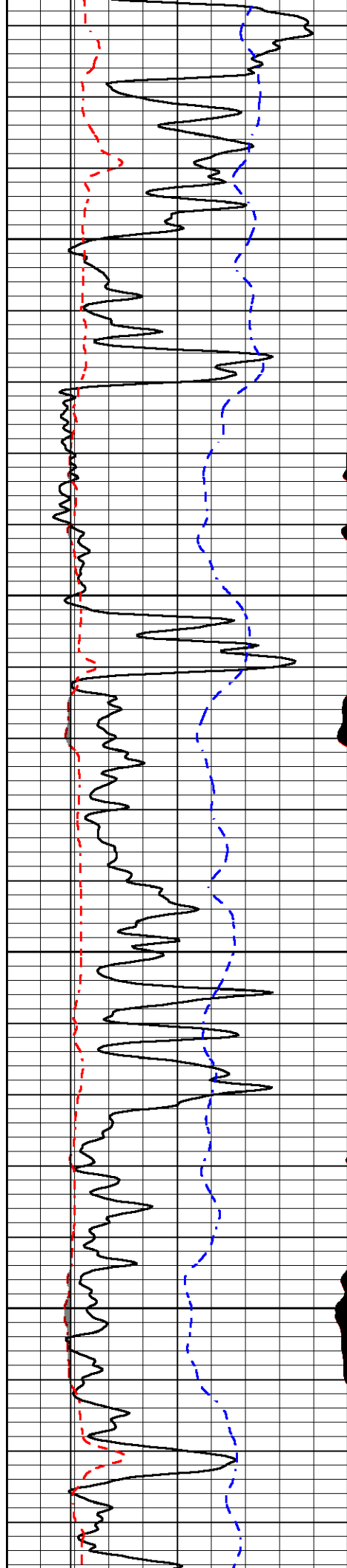
3800

3850

3900

3950



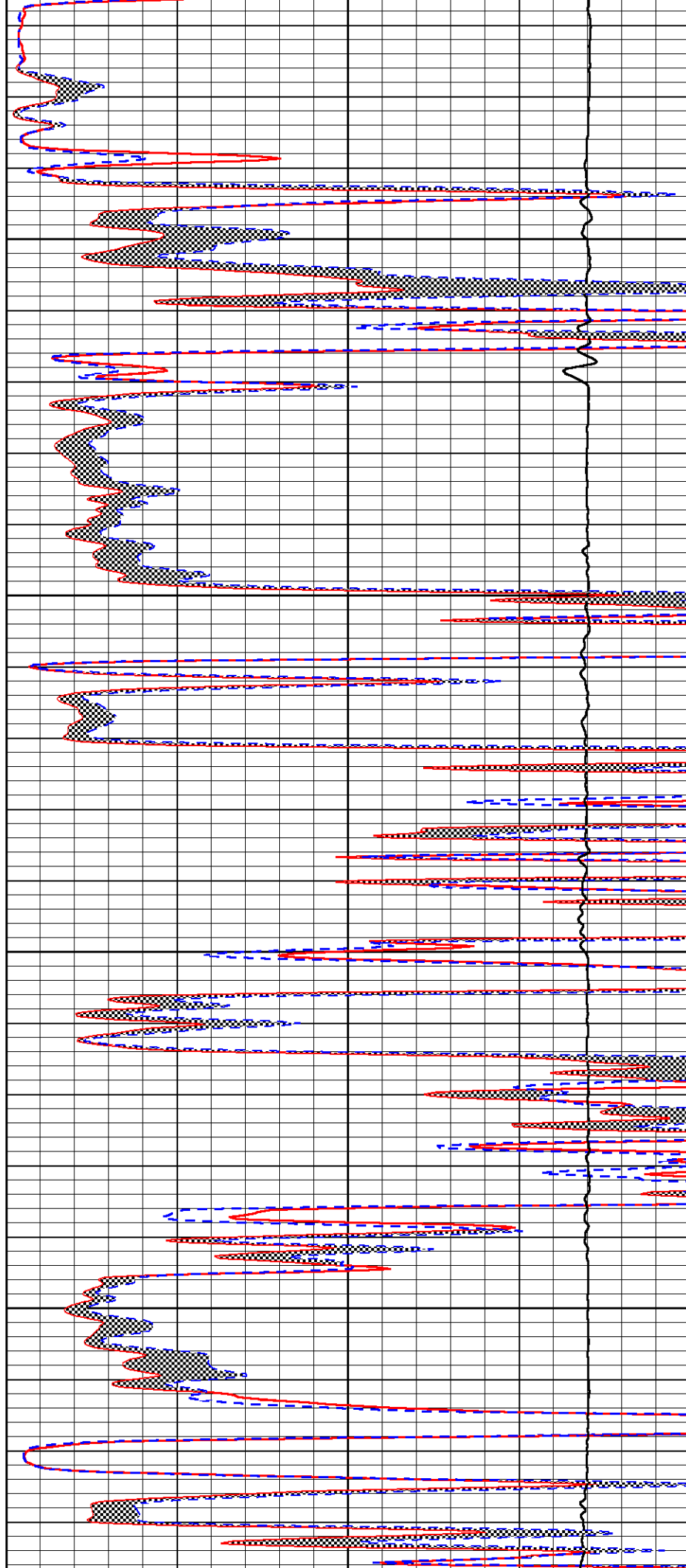


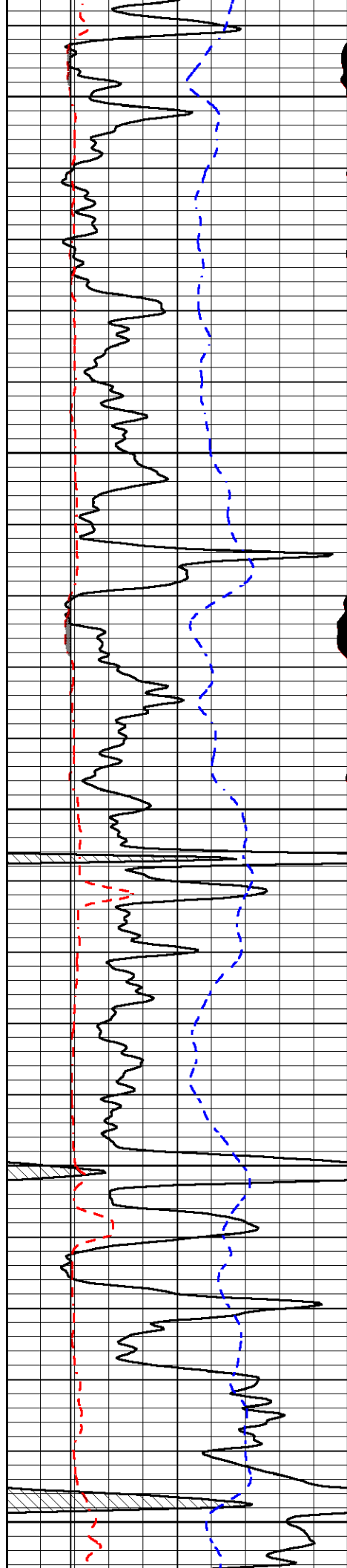
4000

4050

4100

4150





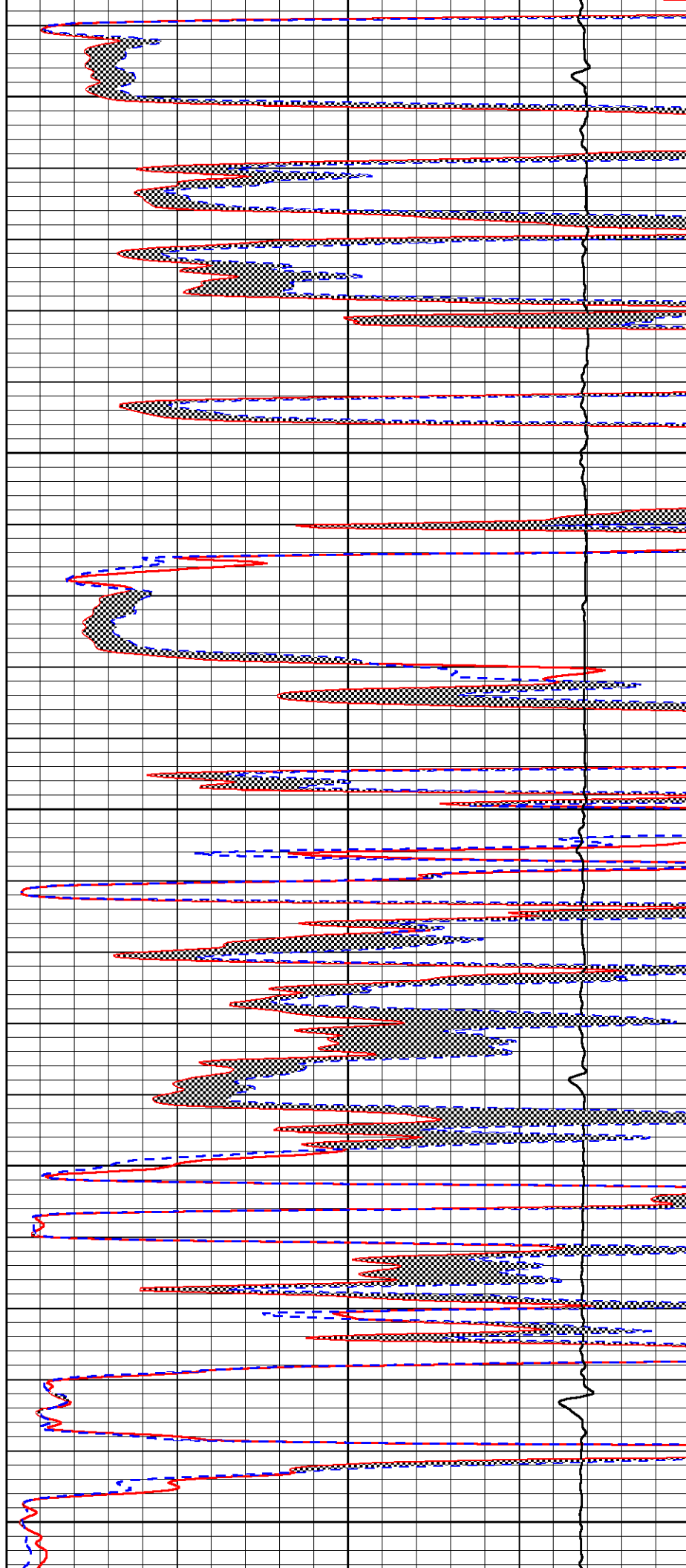
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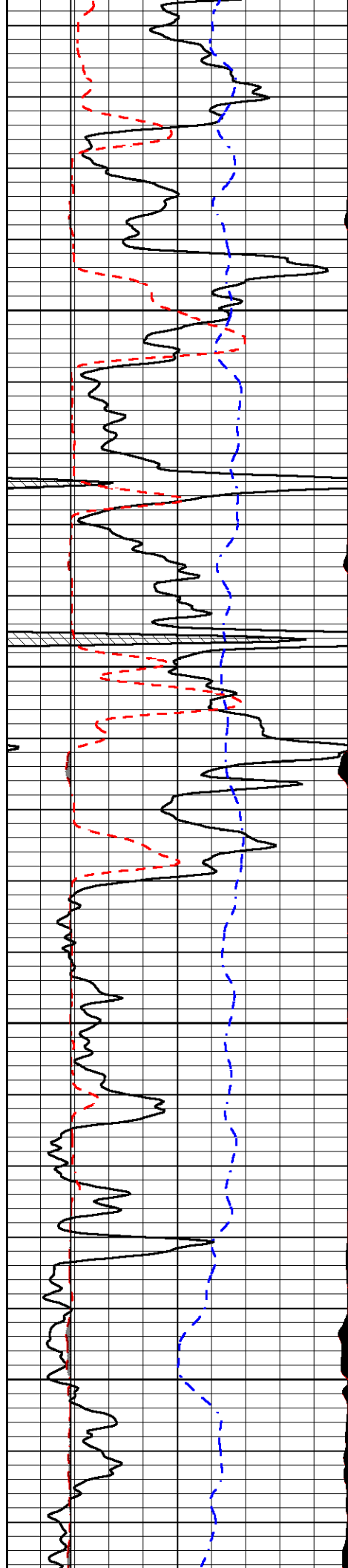
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4300

4350

4400



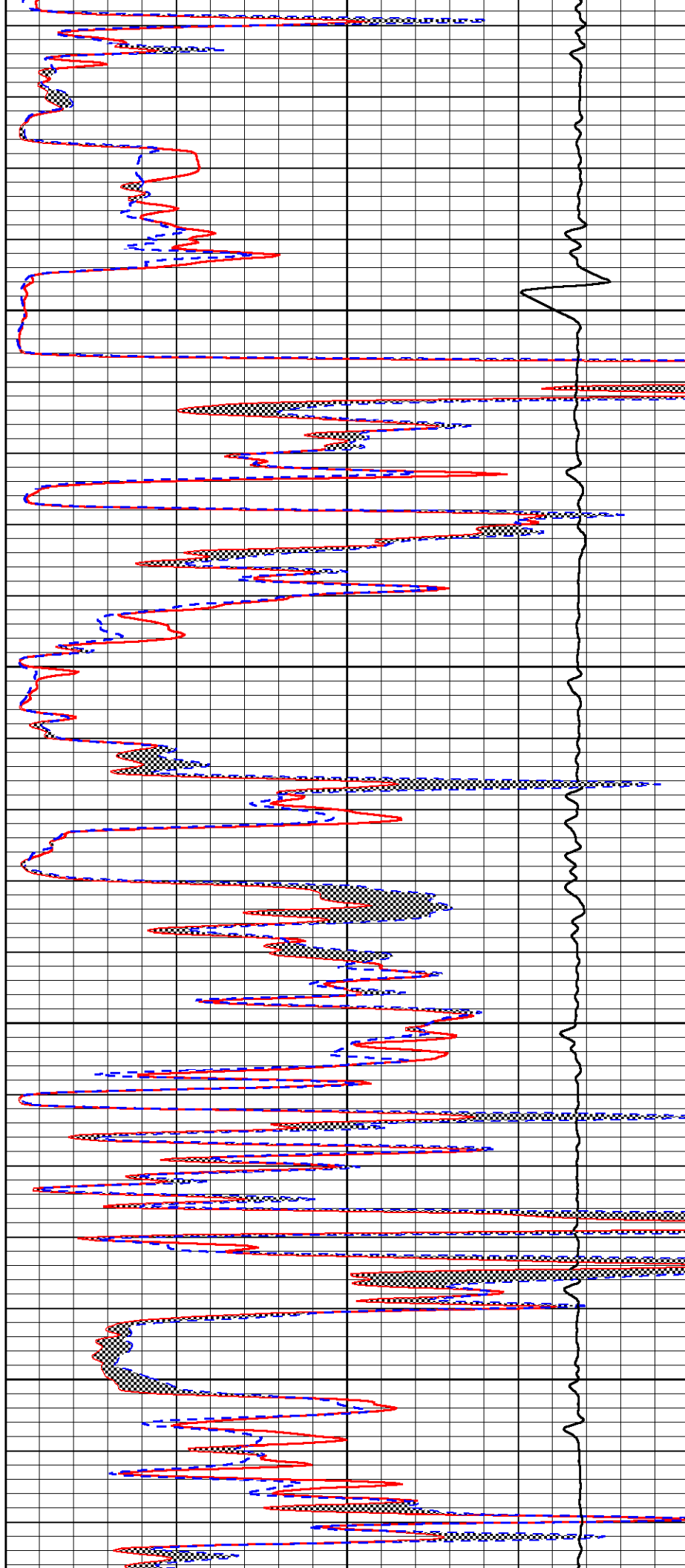


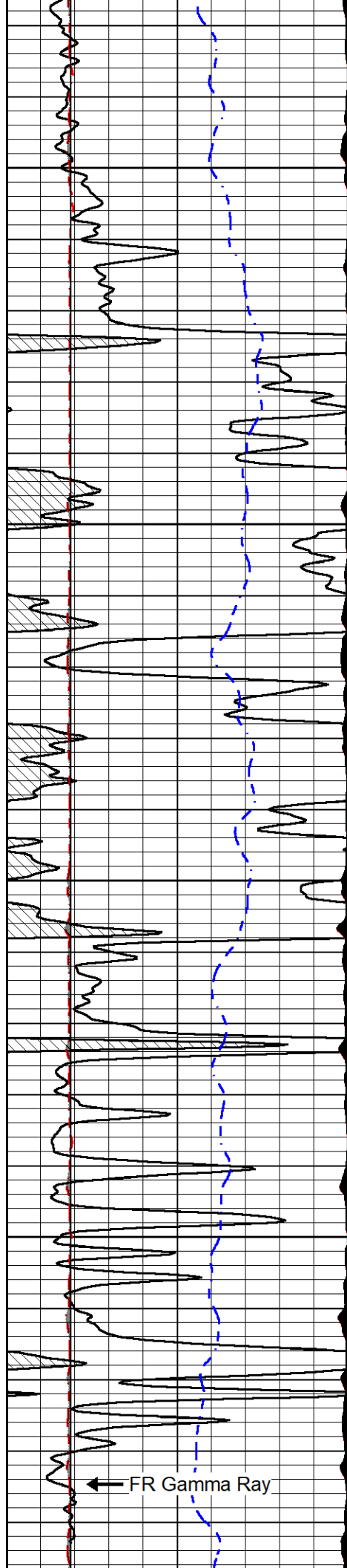
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4500

4550

4600





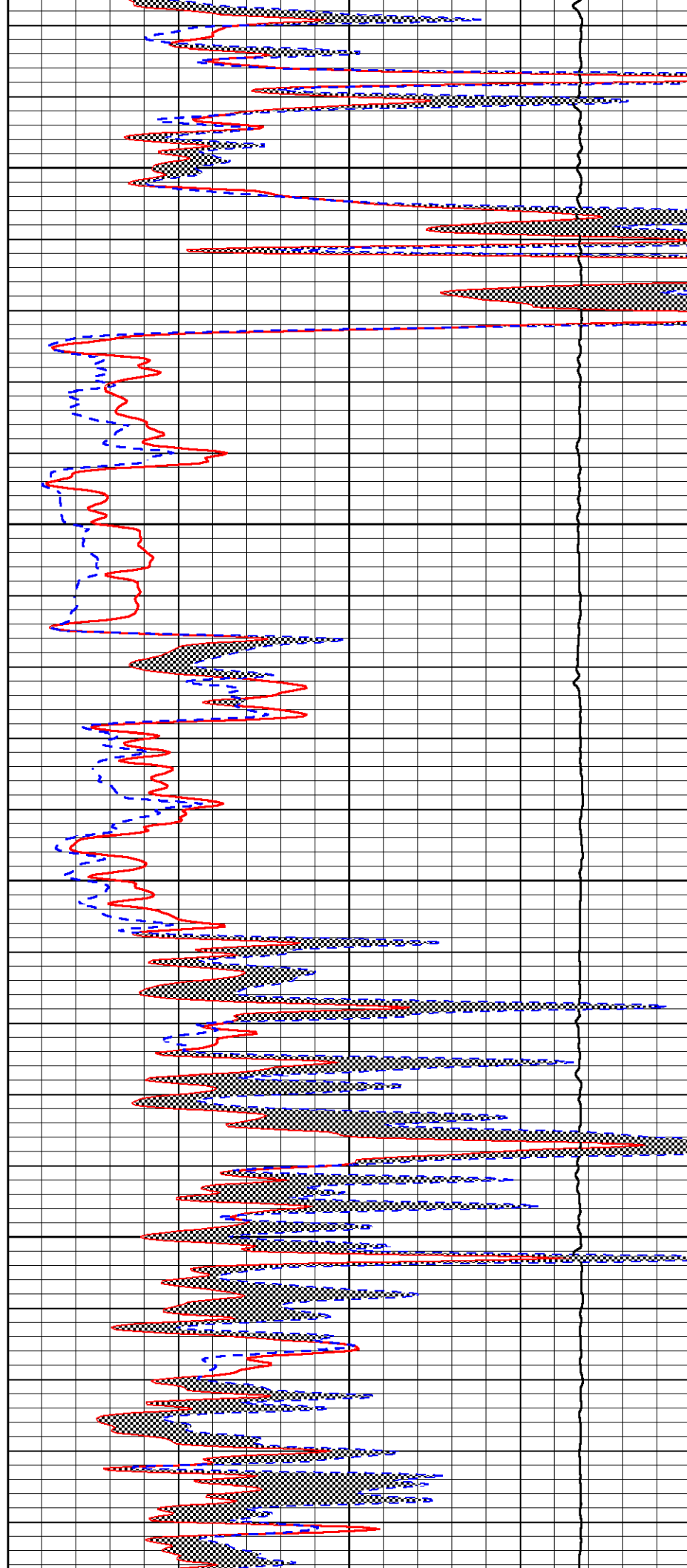
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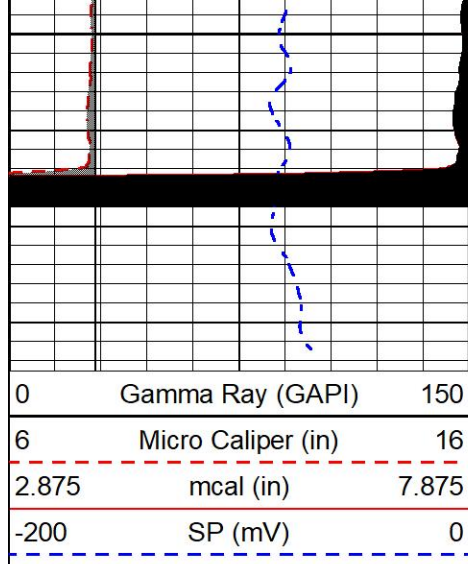
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4750

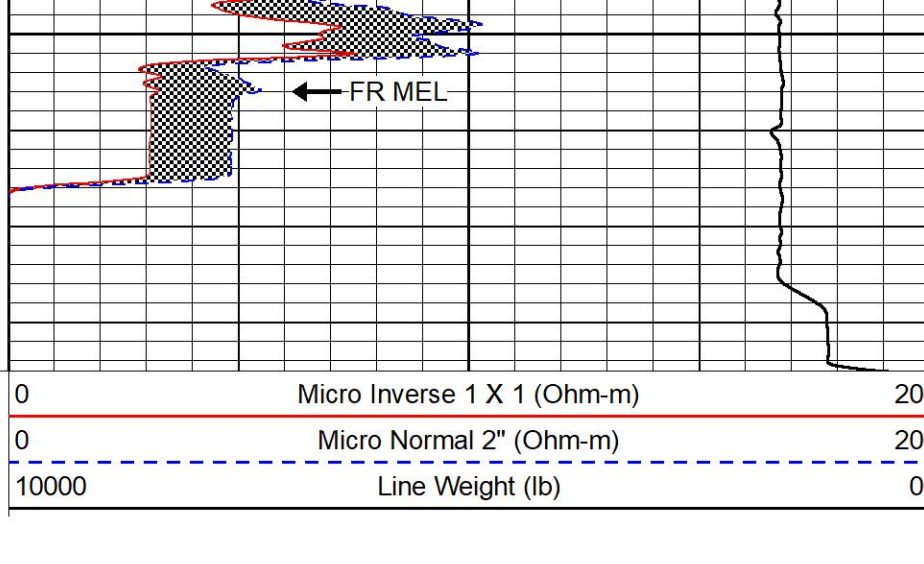
4800

← FR Gamma Ray





4850

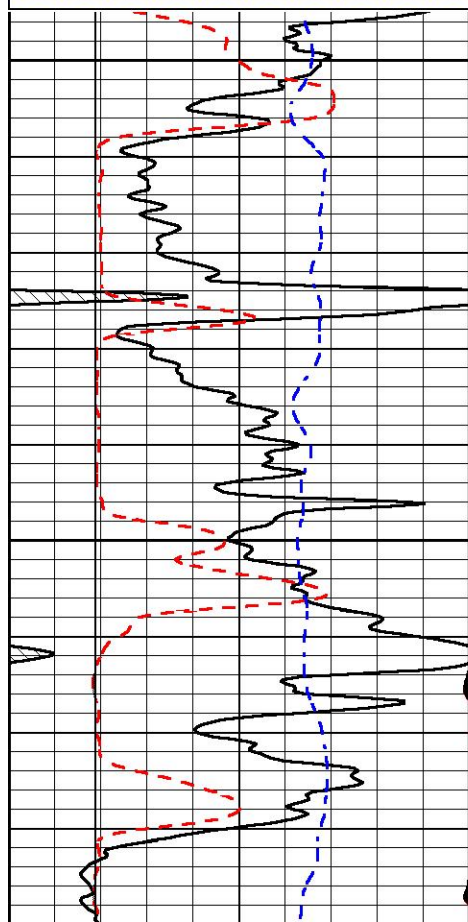
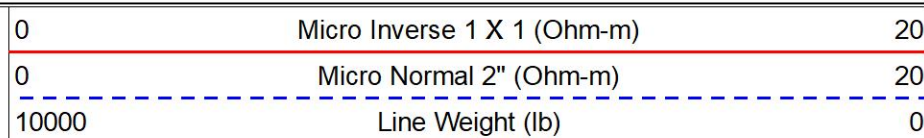
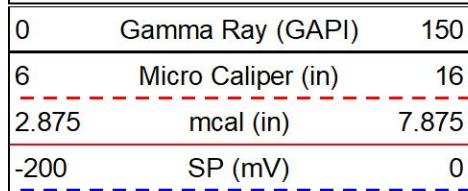


MIDWEST WIRELINE

REPEAT SECTION

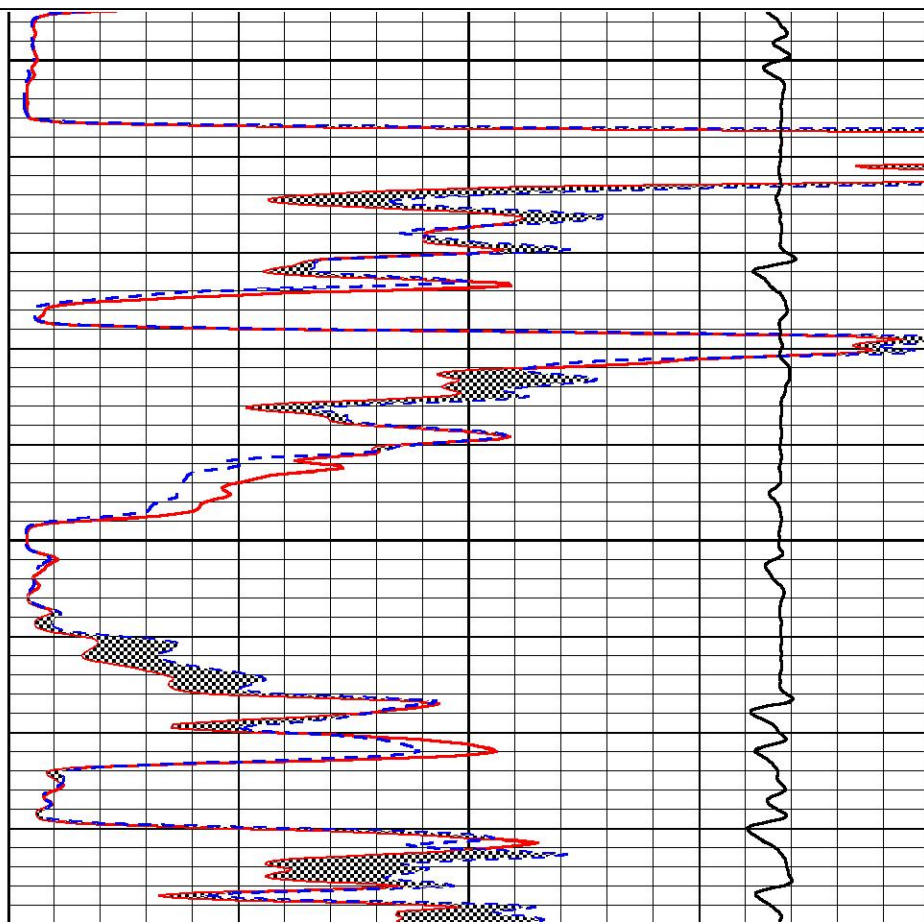
REPEAT PASS

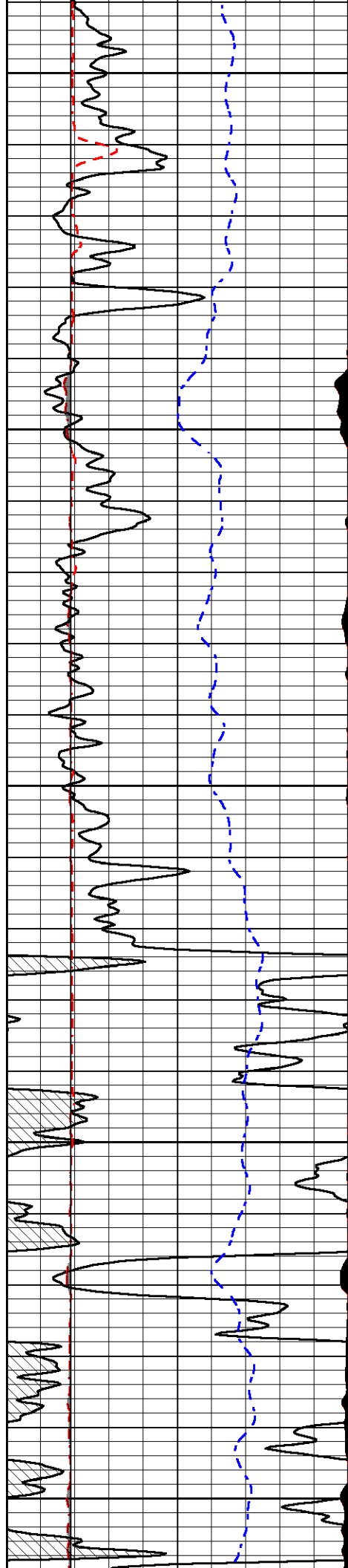
Database File griffin_madelyn 2 owwo.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _micro
 Dataset Creation Fri Jul 19 05:16:14 2024
 Charted by Depth in Feet scaled 1:240



4450

4500





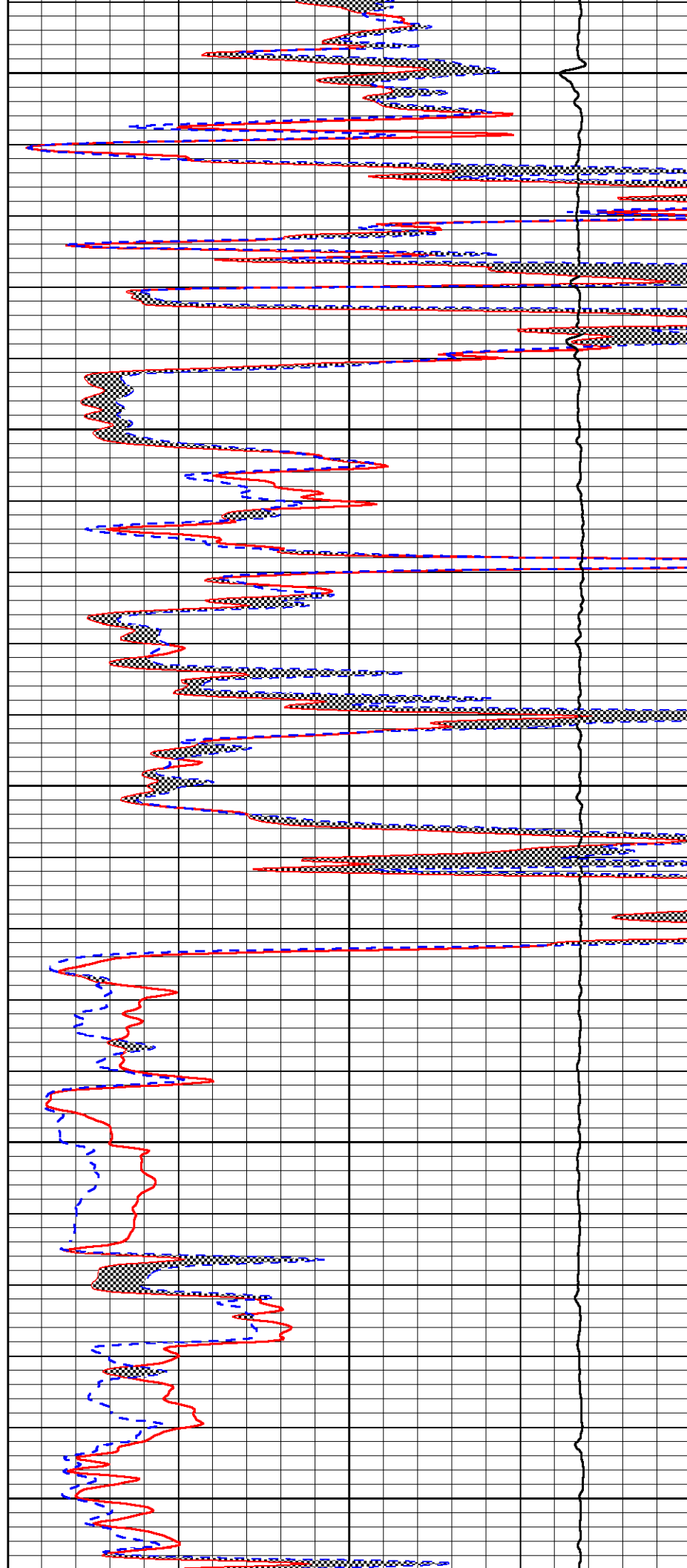
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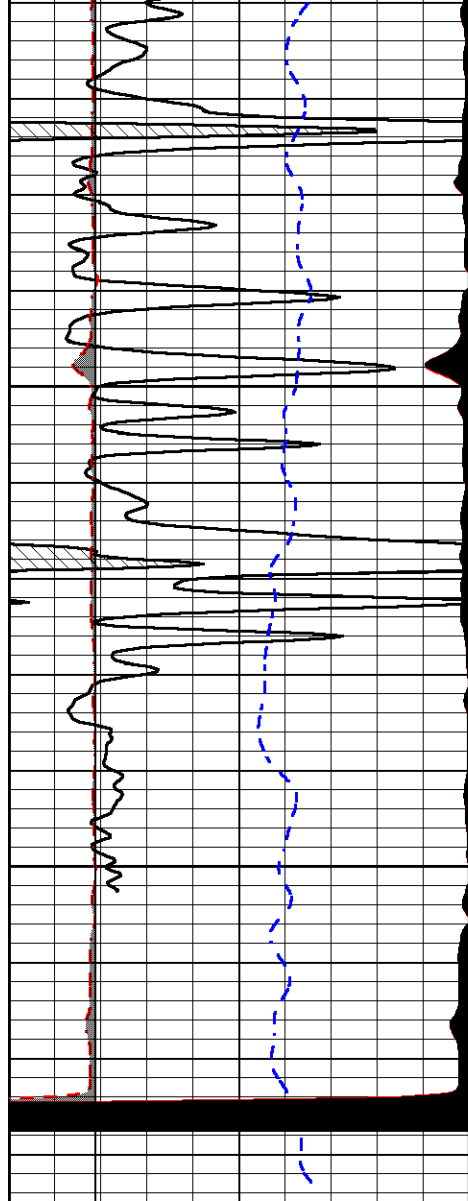
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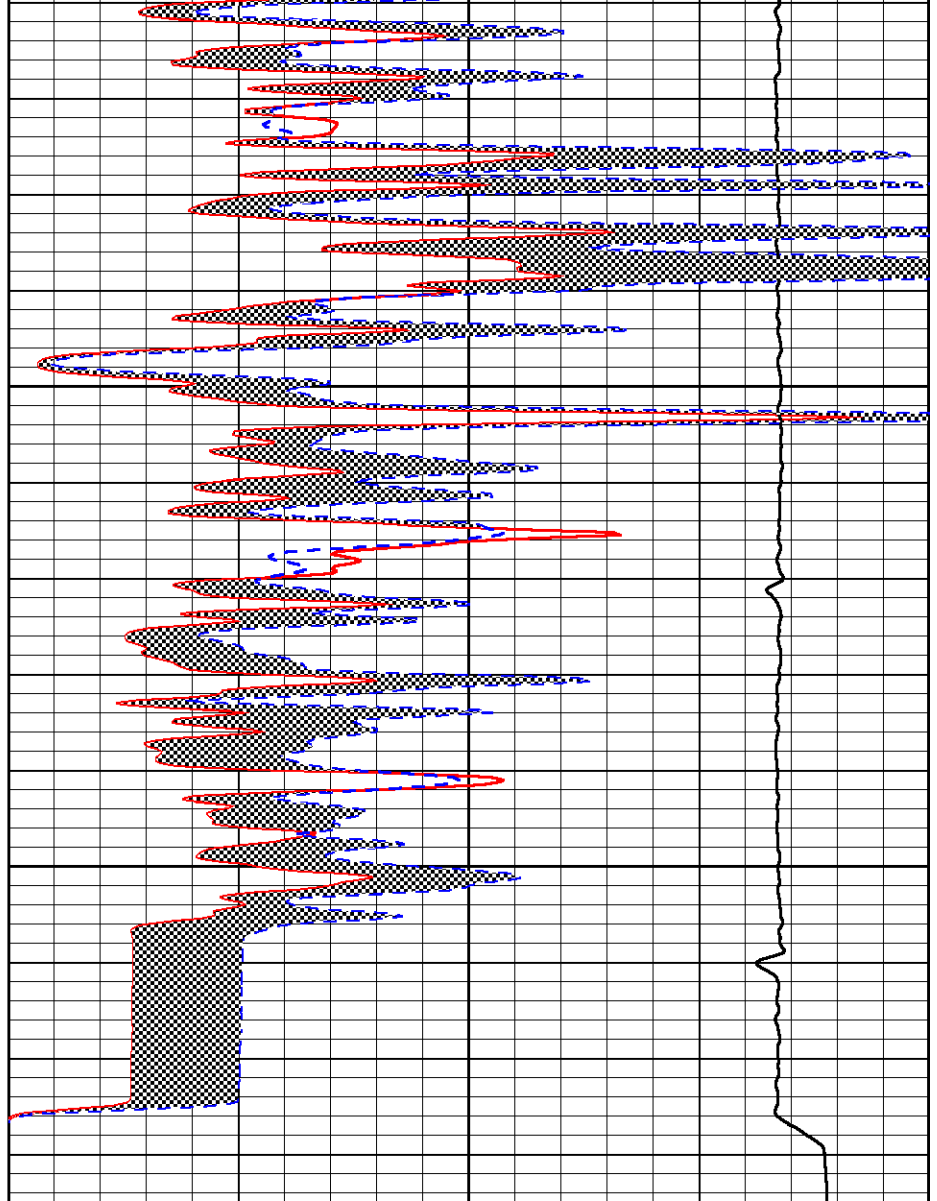
4750





4800

4850



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

0	Micro Inverse 1 X 1 (Ohm-m)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0

Calibration Report

Database File	griffin_madelyn 2 owwo.db
Dataset Pathname	stkml/pass3.1
Dataset Creation	Fri Jul 19 06:05:42 2024

Dual Induction Calibration Report

Serial-Model: 506-M&W
Surface Cal Performed: Sun Jun 30 20:32:27 2024

		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.465	-32.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.390	-10.000

Microlog Calibration Report

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	14000.0000	-0.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	19000.0000	0.0000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.6250

LITHODENSITY Calibration Report

Serial Number:		703-03							
Tool Model:		STEP LITHO Short							
Performed:		Fri May 31 13:59:15 2024							
Source:									
		Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8
Background:									
SS:	56	59	223	276	25	75	46	1	cps
LS:	83	90	344	441	51	132	90	3	cps
Aluminum:									
SS:	1063	1260	2893	2631	48	80	48	3	cps
LS:	1179	2084	3854	1823	62	133	86	5	cps
Magnesium:									
SS:	1756	2035	4740	3894	55	79	49	4	cps
LS:	4981	8390	15059	6054	115	127	85	14	cps
Aluminum+Iron:									
SS:	676	887	2426	2310	45	79	52	2	cps
LS:	700	1495	3280	1630	60	131	90	5	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated Quality			
Background:									
SS:							0.236		
LS:							0.189		
Aluminum:									
SS:		2.6000	2.6000	g/cc			0.249		
LS:		2.6000	2.6000	g/cc			0.216		
Magnesium:									
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.232		
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.198		
Aluminum+Iron:									
SS:						6.1800	0.208		
LS:						6.1800	0.188		

Caliper:		Reference:		Reading:	
Small Ring:		6.0	in	1.0	
Large Ring:		14.0	in	1.0	
Gain:		12.765			
Offset:		2.050			

Compensated Neutron Calibration Report

Serial Number:		210	
Tool Model:		M&W	

CALIBRATION			
Detector		Readings	Target
Short Space		6240.00 cps	1000.00 cps
Long Space		1222.22 cps	1222.22 cps
Normalization		1.6025	1.6025

Long Space 460.00 cps 1000.00 cps 1.9500

Gamma Ray Calibration Report

Serial Number:	105	
Tool Model:	M&W	
Performed:	Sat Oct 21 23:48:19 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps



Company	Griffin Management, LLC
Well	Madelyn #2 OWWO
Field	Turkey Creek East
County	Barber
State	Kansas