



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company Griffin Management, LLC		Company Griffin Management, LLC	
Well	Ethan #2	Well	Ethan #2
Field		Field	
County	Barber	County	Barber
State	Kansas	State	Kansas
Location: API #: 15-007-24498-00-00		Other Services	
Permanent Datum SW SW NE SE		CNL/CDL	
Log Measured From 1625 FSL & 1170 FEL		DIL	
Drilling Measured From SEC 16 TWP 30S RGE 15W			
Date	6/9/2024		
Run Number	One		
Depth Driller	4868		
Depth Logger	4864		
Bottom Logged Interval	4863		
Top Log Interval	2800		
Casing Driller	8.625 @ 1010		
Casing Logger	1009		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4500		
Density / Viscosity	9.4 55		
pH / Fluid Loss	10.0 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 80		
Rmt @ Meas. Temp	0.30 @ 80		
Rmc @ Meas. Temp	0.54 @ 80		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.26 @ 125		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	125		
Equipment Number	110		
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,
South and East 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		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	40.23		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.13		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.38					
			MWLith-STEP LITHO Short (701-01)	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 (508A)	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_ethan 2.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_ethan 2.db
Dataset field/well/stkml/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	125	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	340	80		4864

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



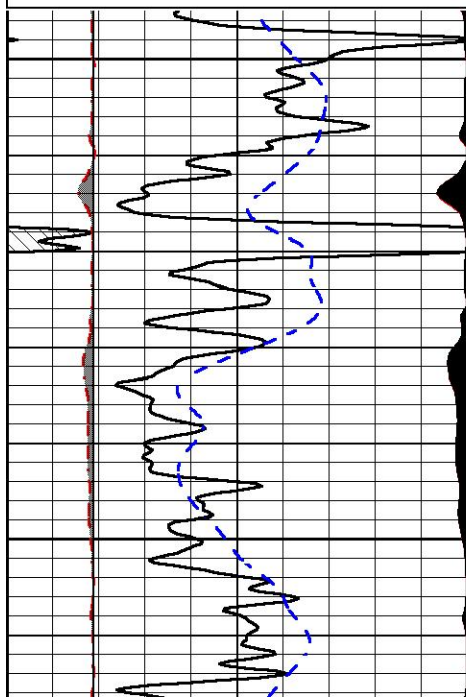
DETAIL SECTION

MAIN PASS

Database File griffin_ethan 2.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Sun Jun 09 23:01:17 2024
Charted by Depth in Feet scaled 1:240

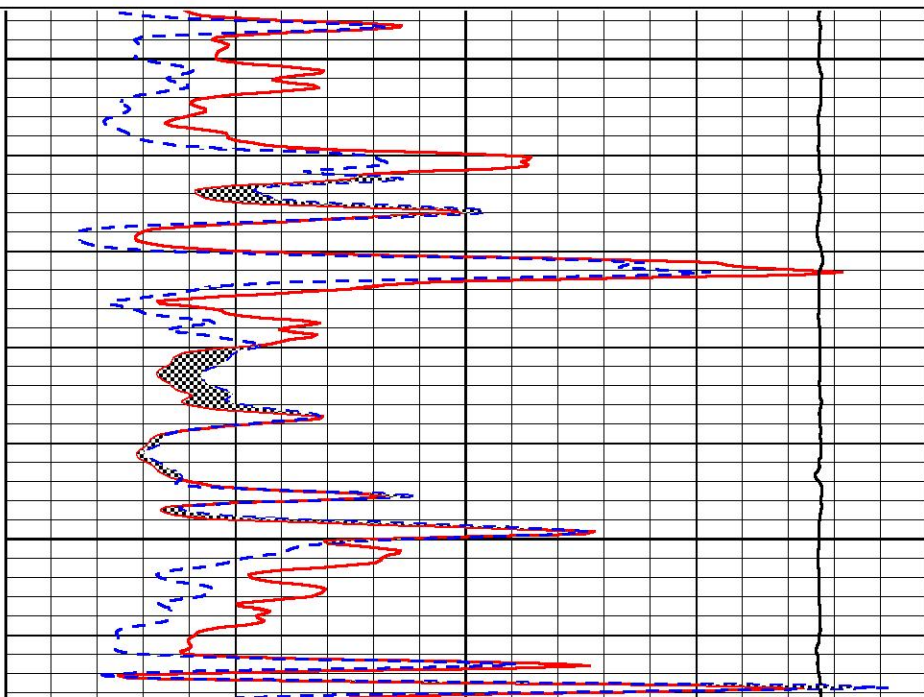
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

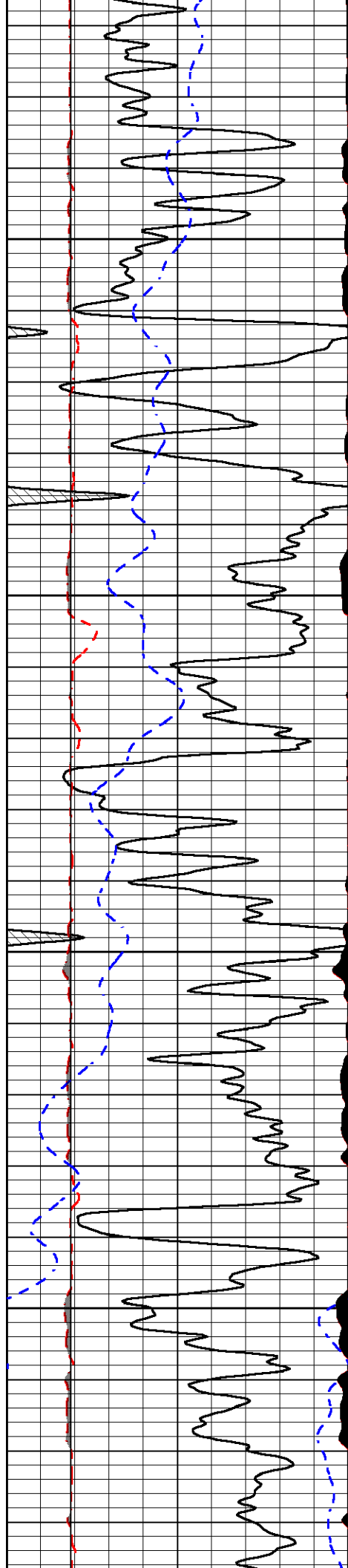
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2800

2850



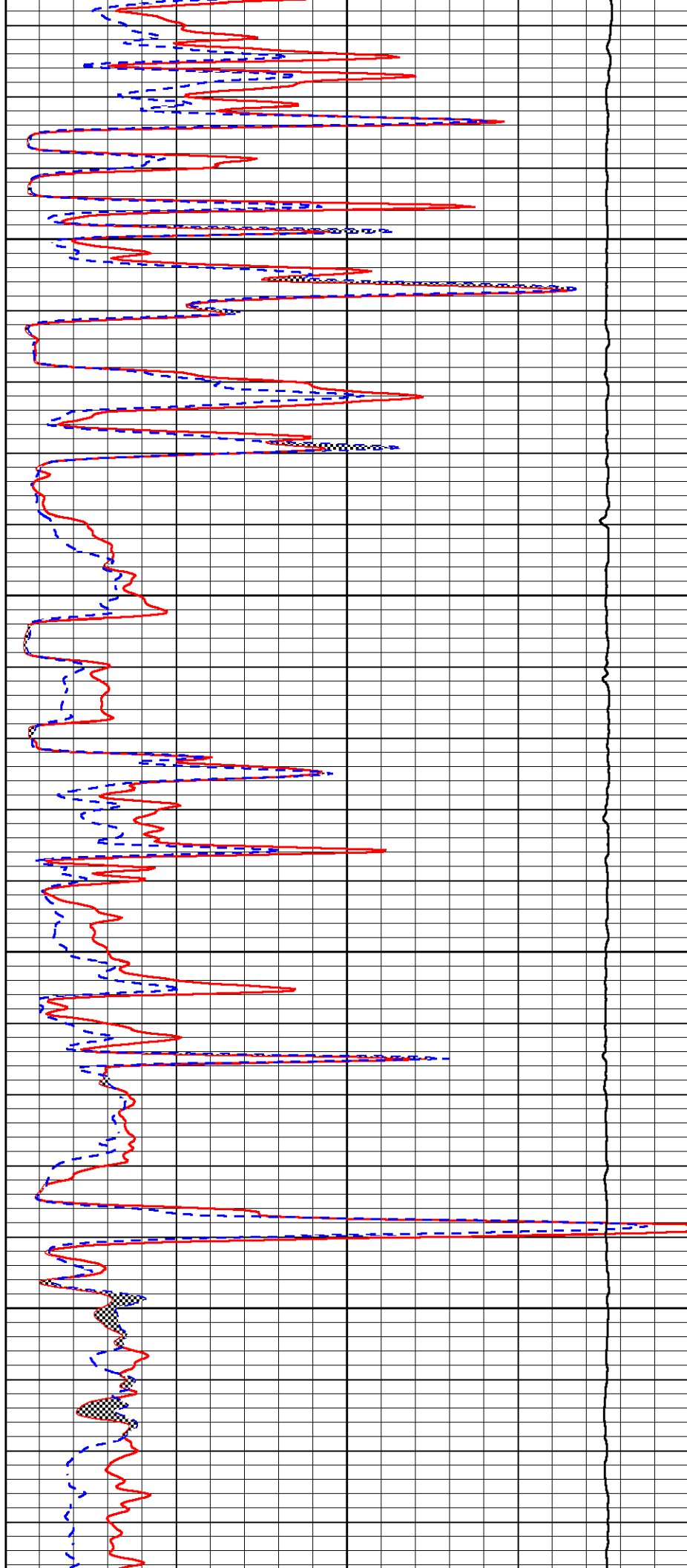


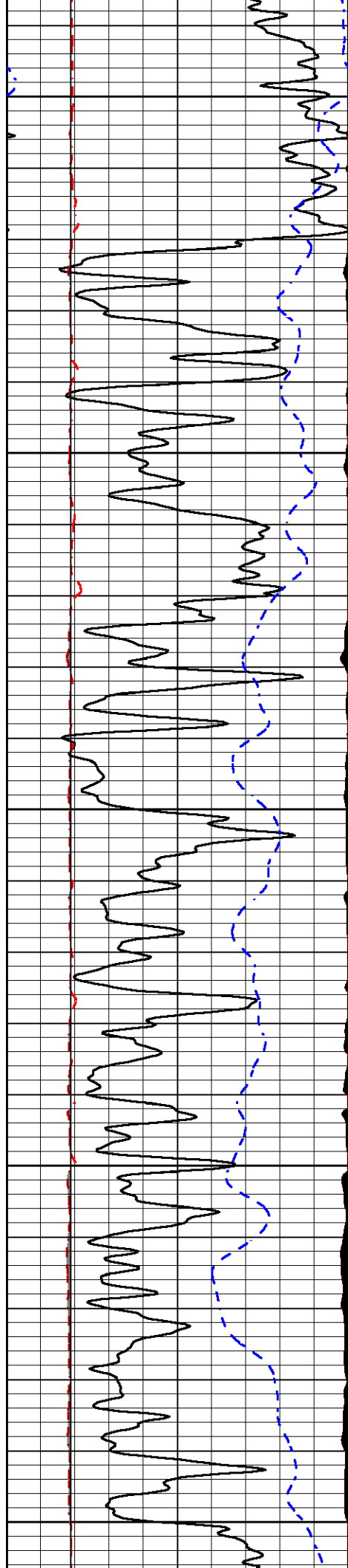
2900

2950

3000

3050





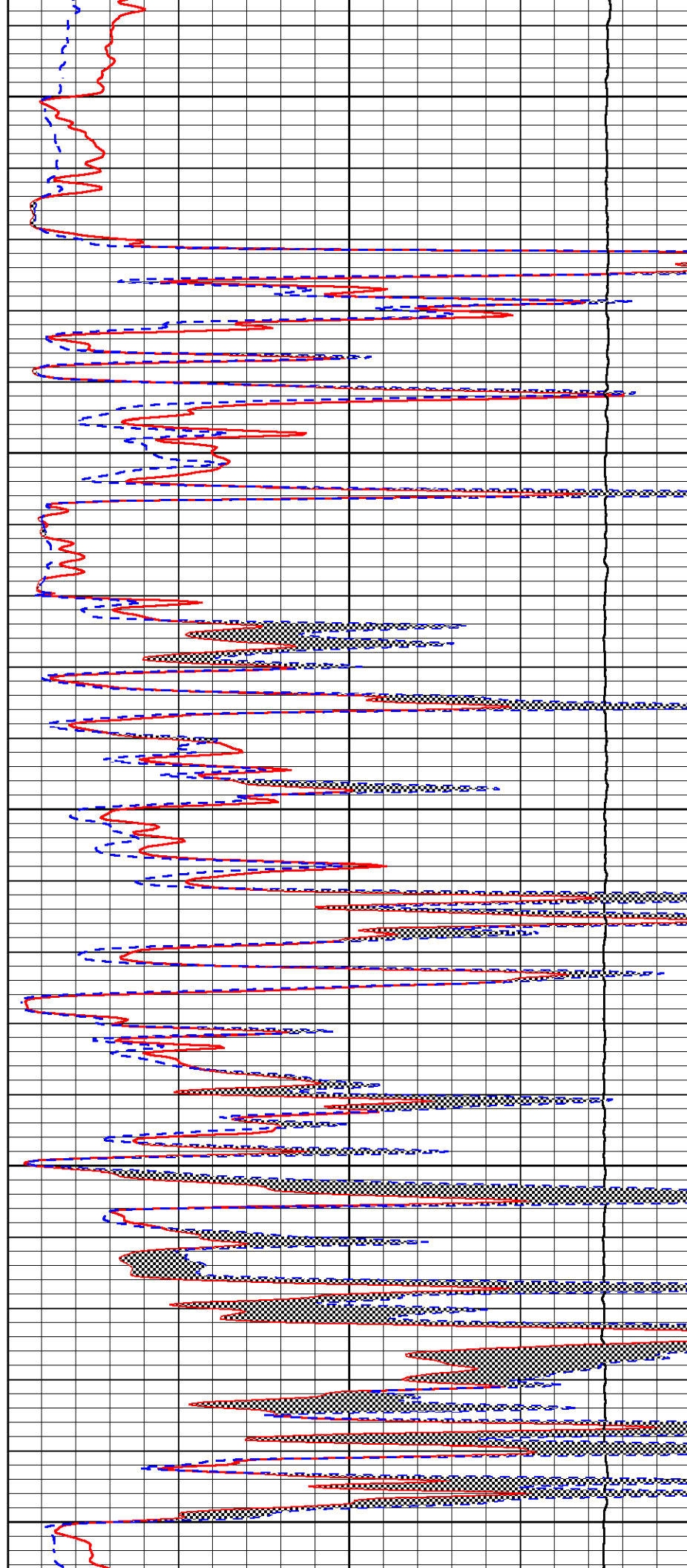
3100

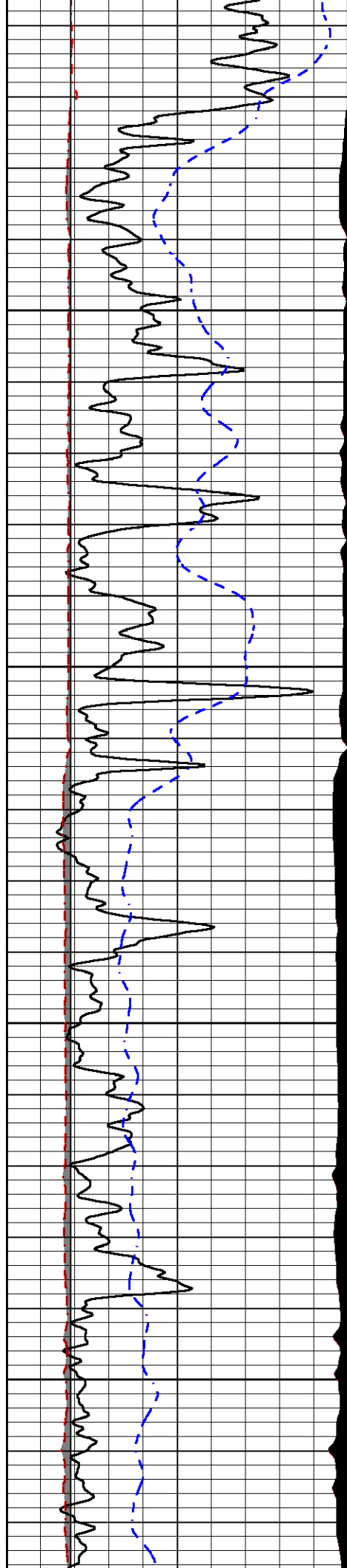
3150

3200

3250

3300



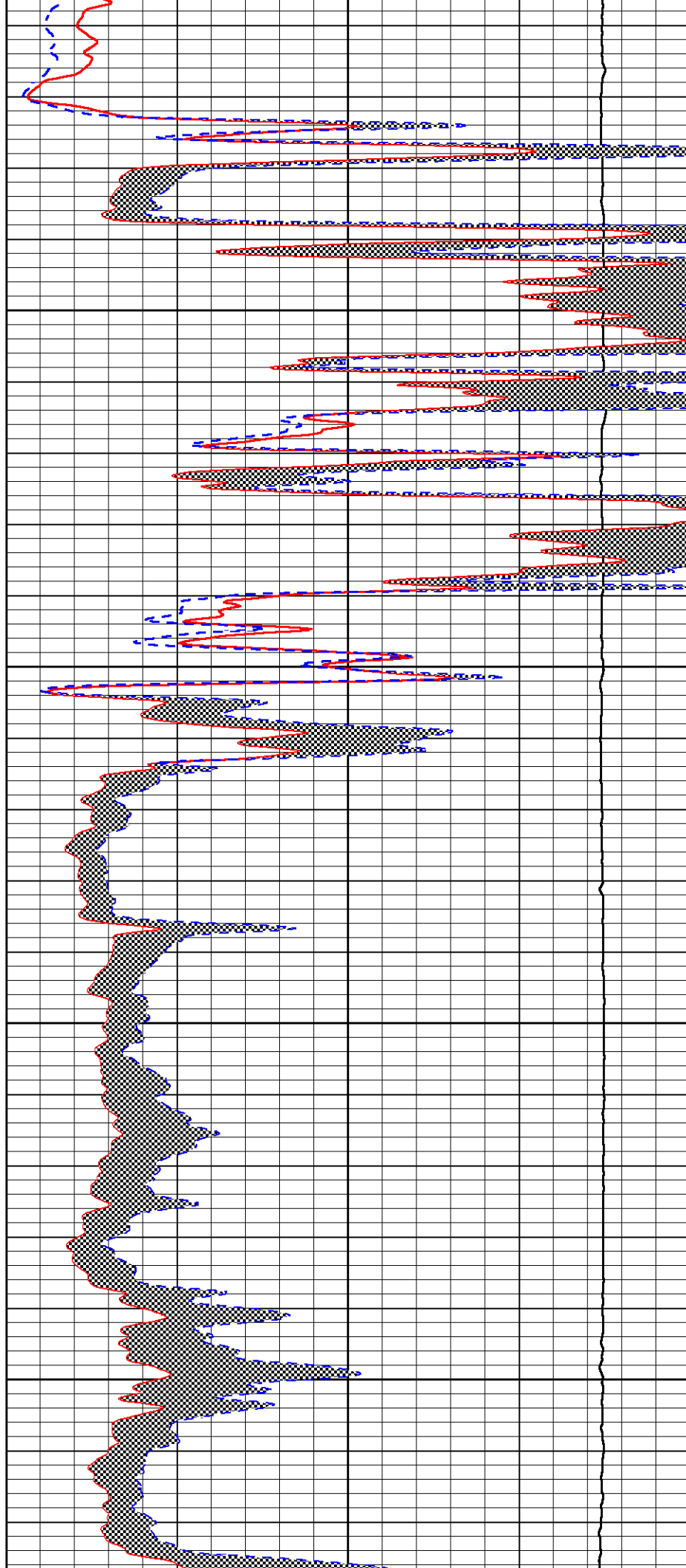


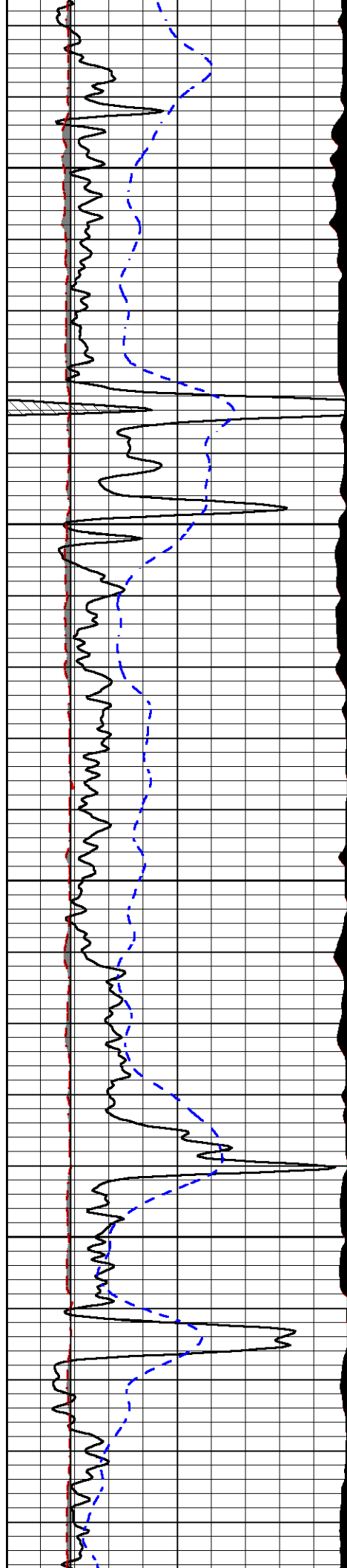
3350

3400

3450

3500



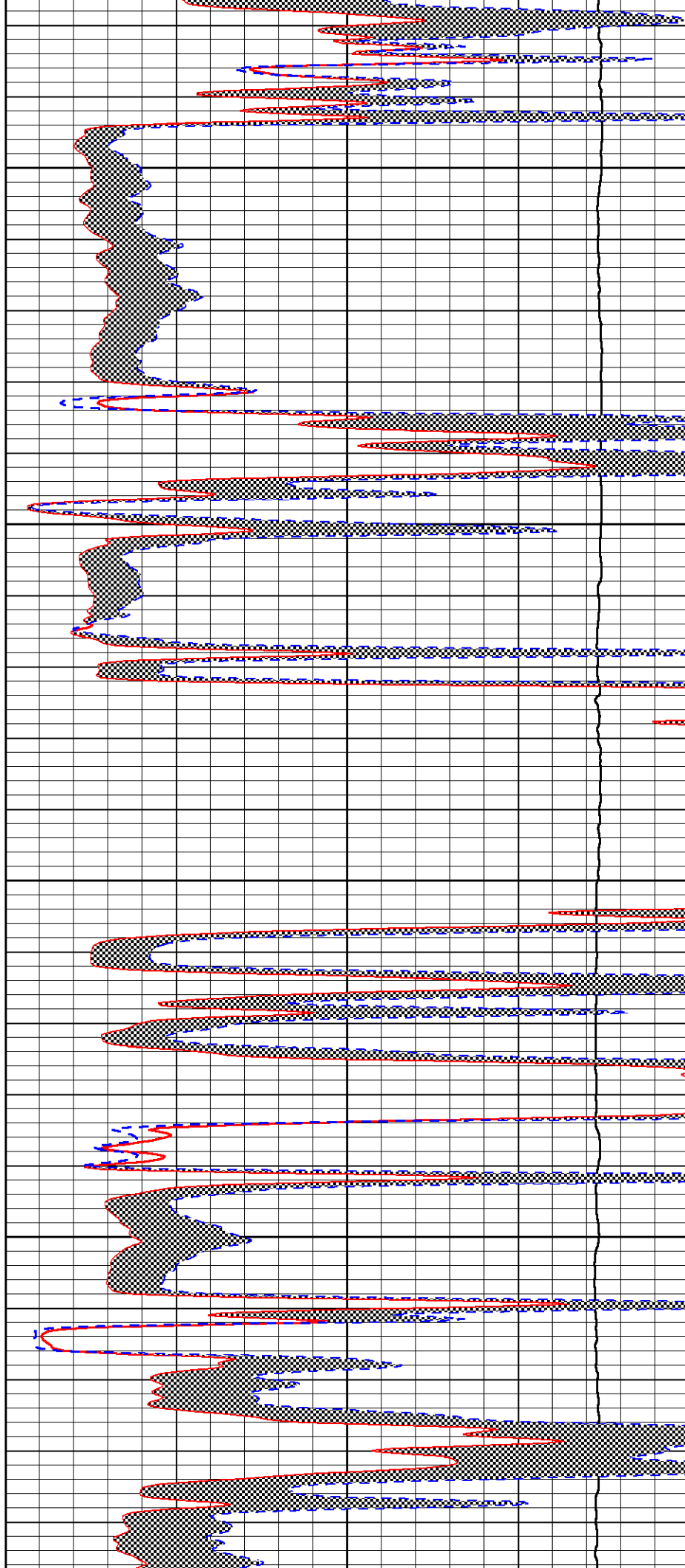


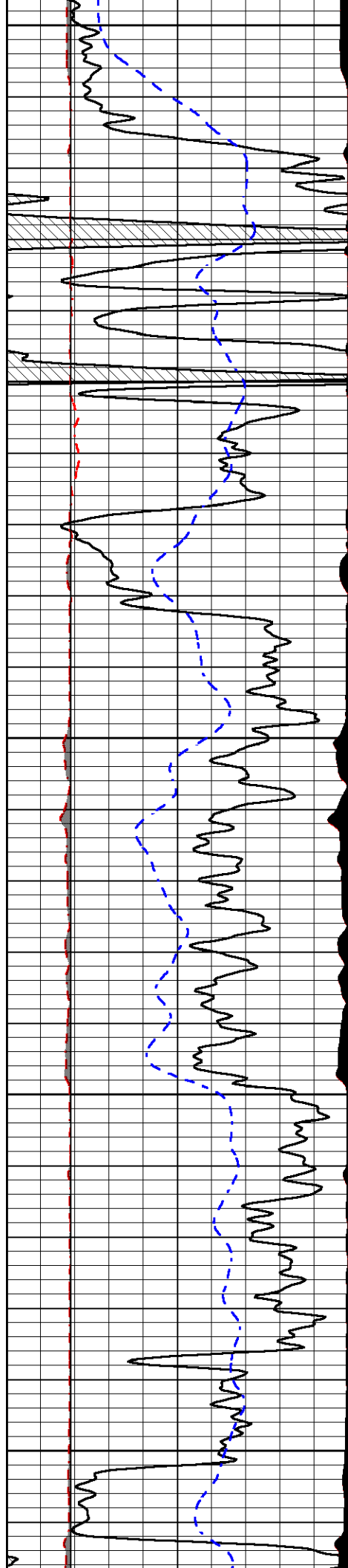
3550

3600

3650

3700





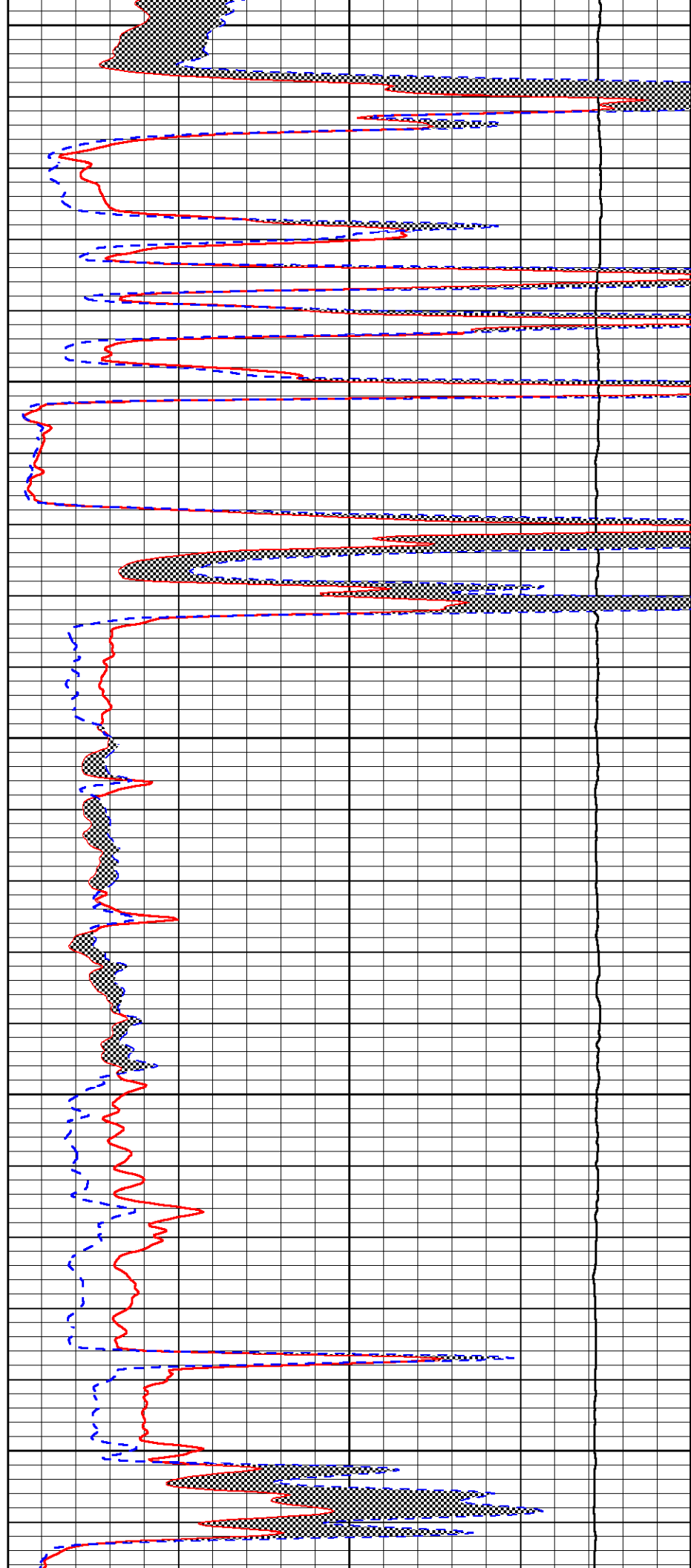
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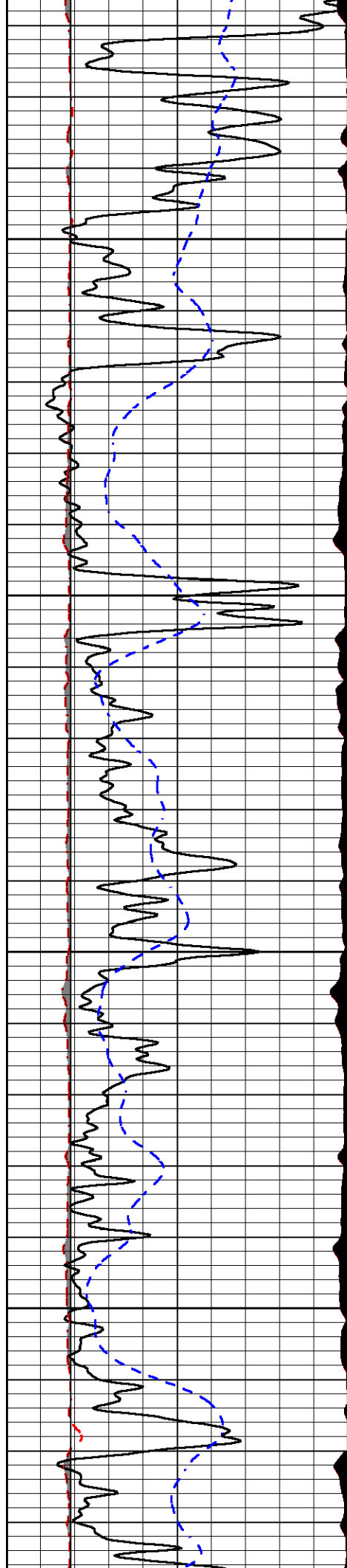
3800

3850

3900

3950



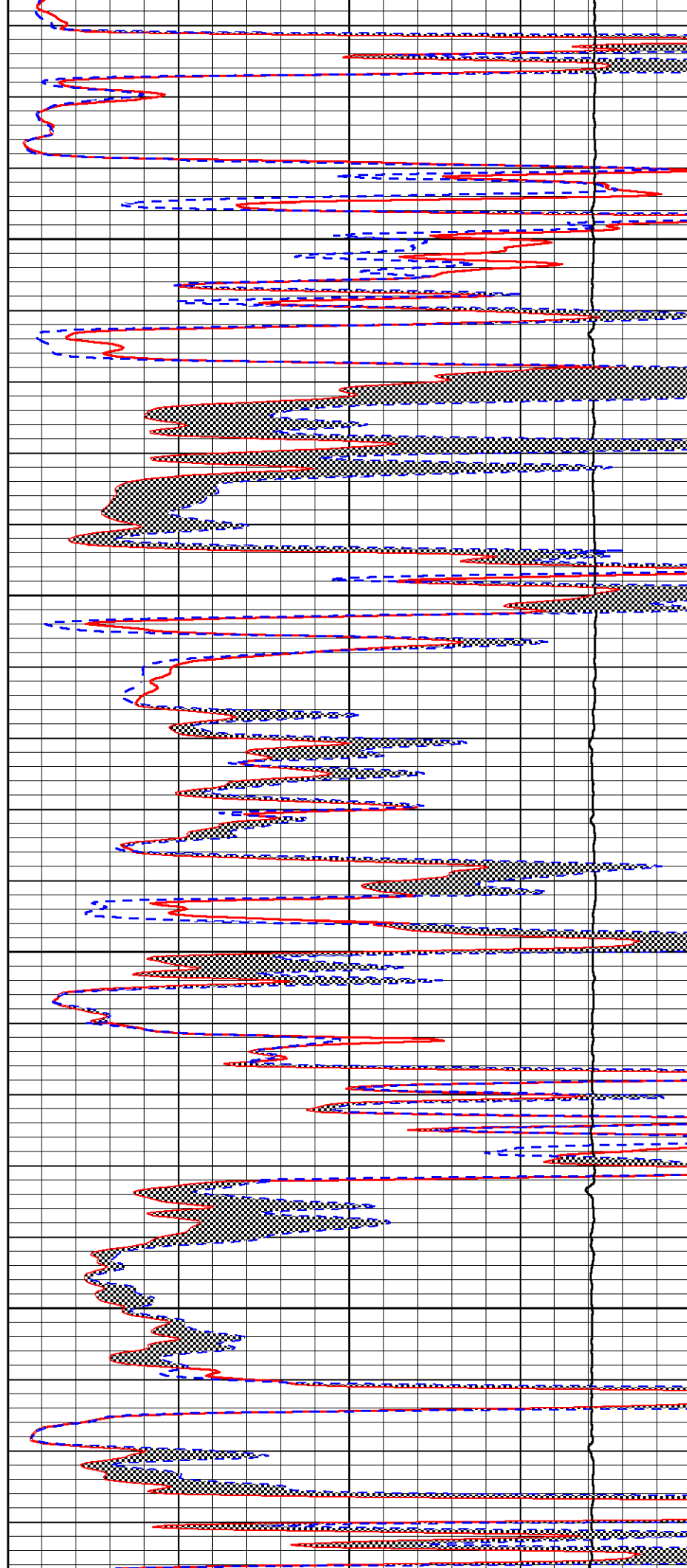


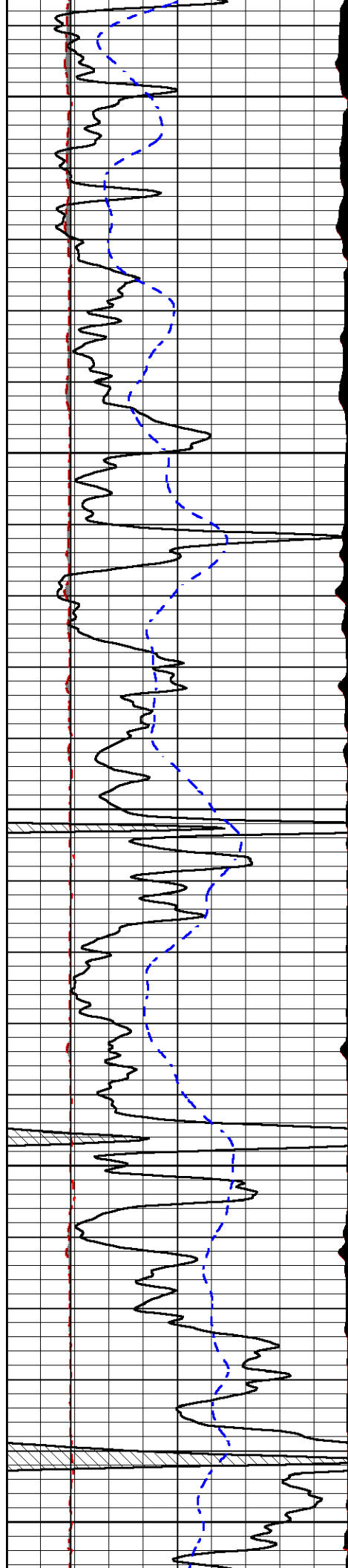
4000

4050

4100

4150





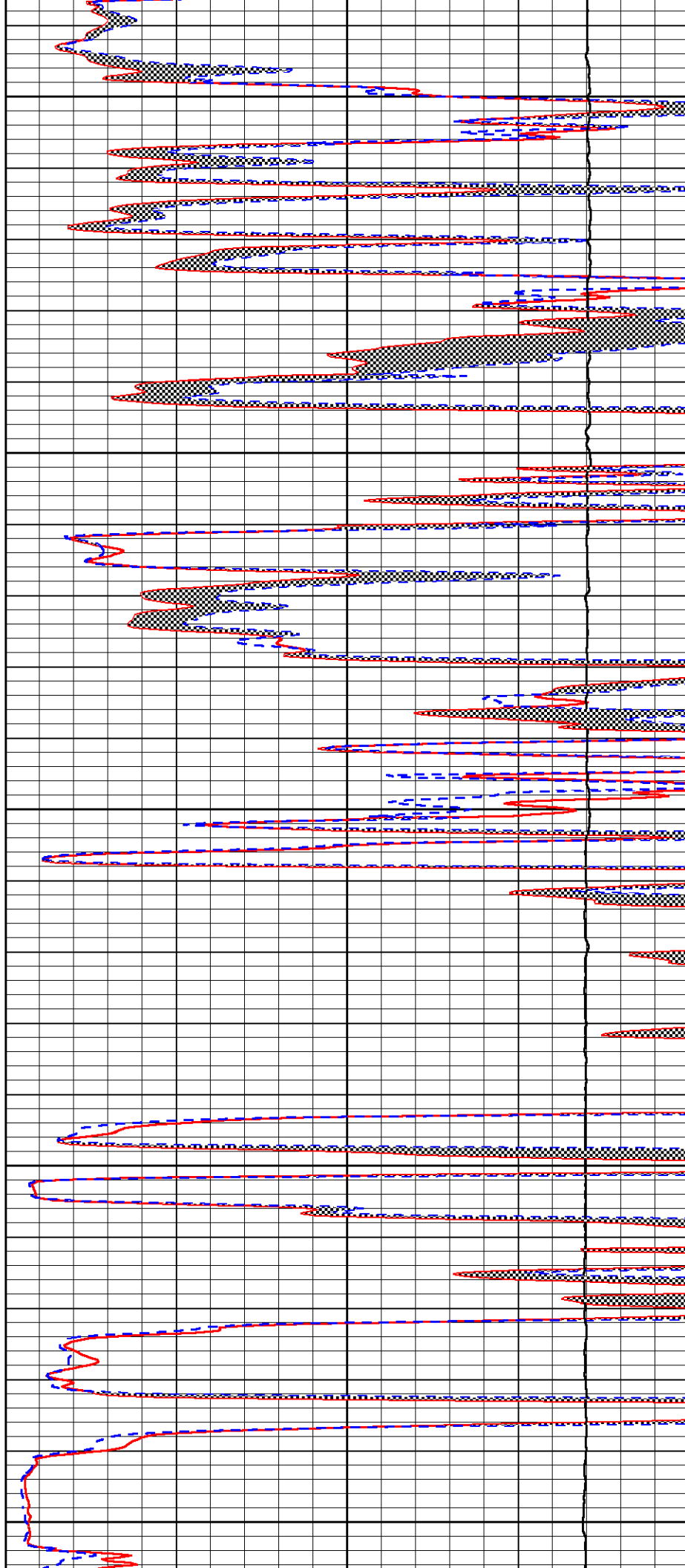
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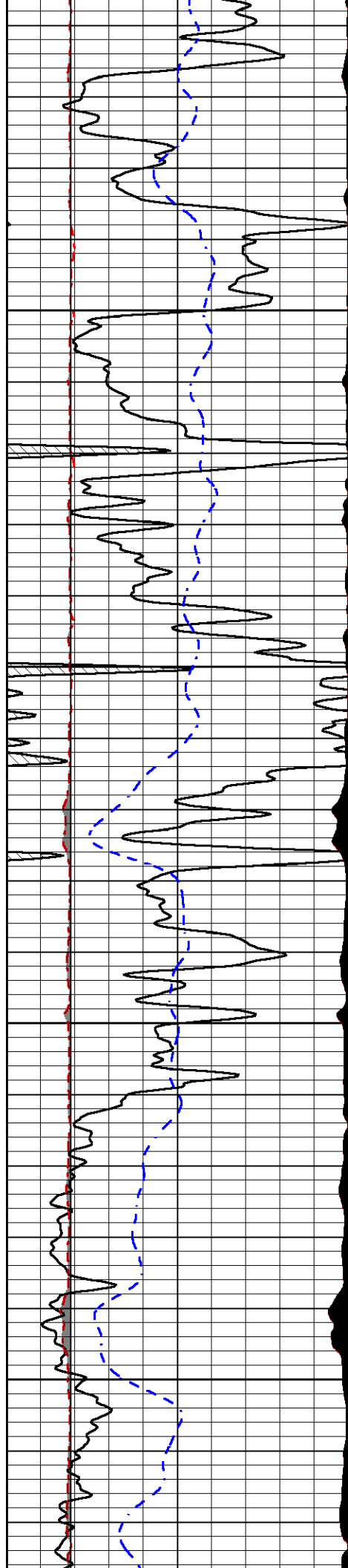
4250

4300

4350

4400



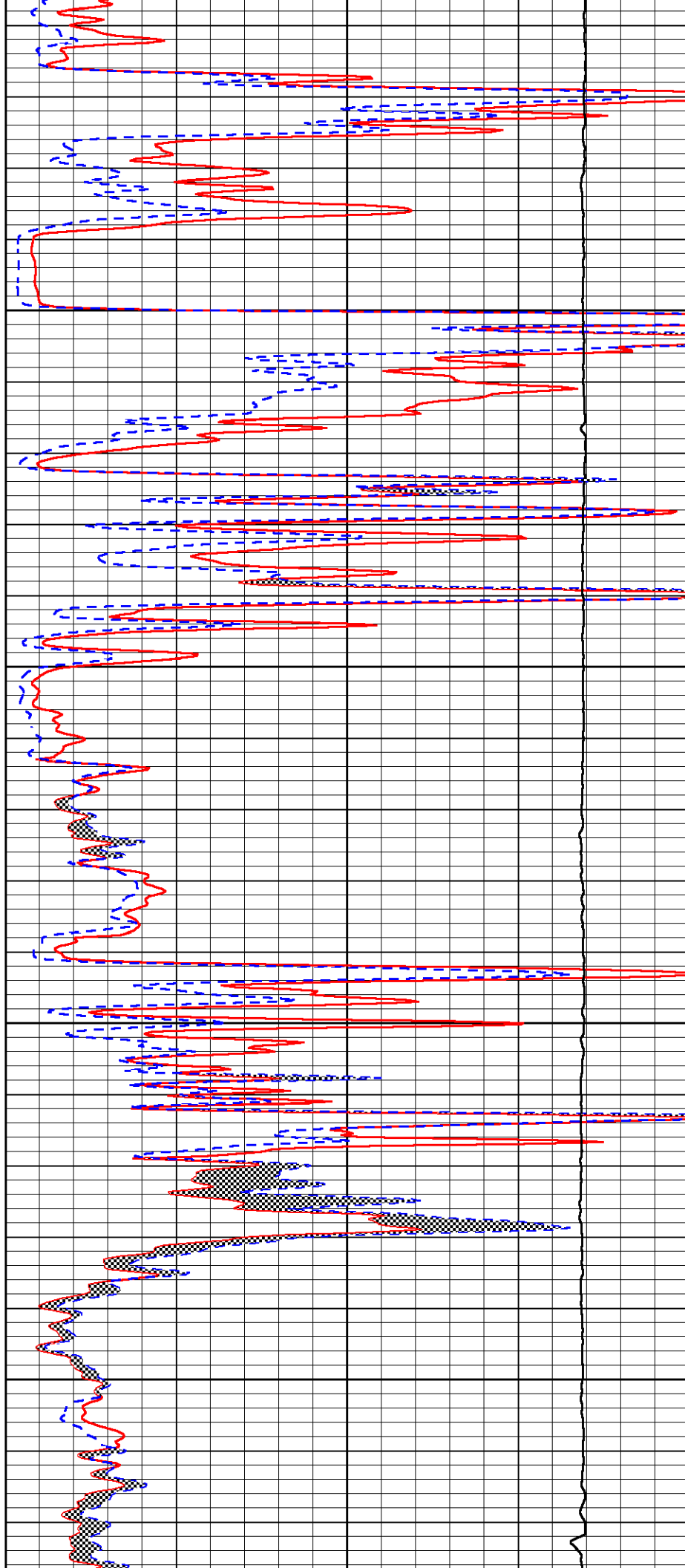


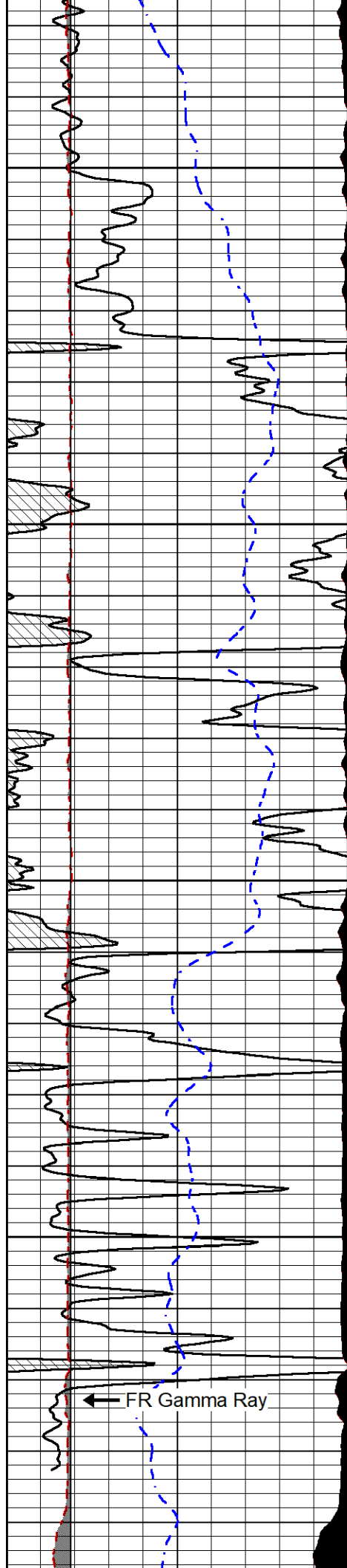
4450

4500

4550

4600





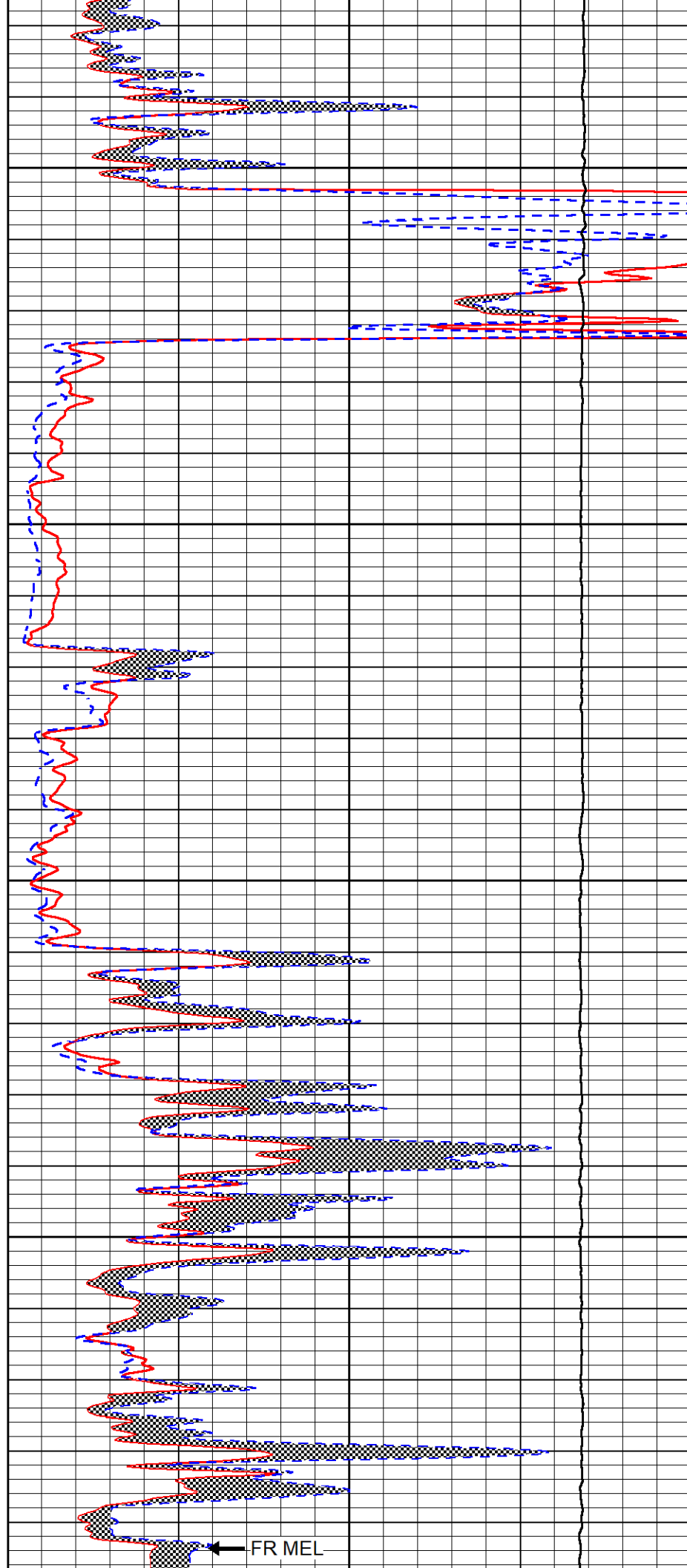
4650

4700

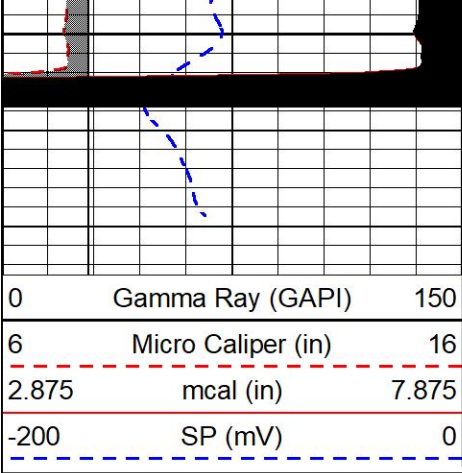
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4800

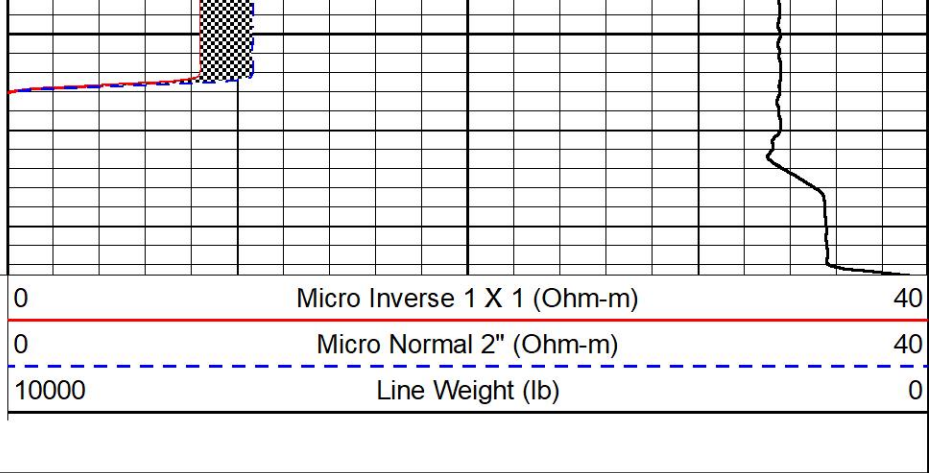
← FR Gamma Ray



← FR MEL



4850

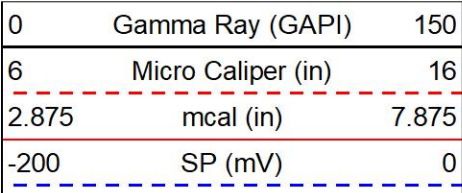


MIDWEST WIRELINE

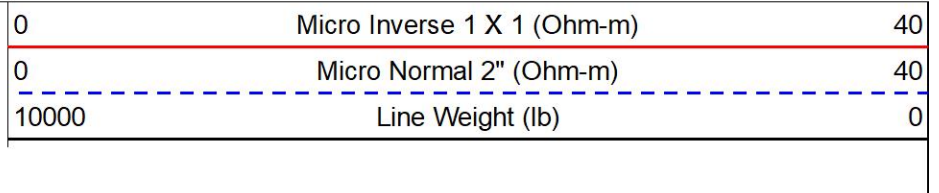
REPEAT SECTION

REPEAT PASS

Database File griffin_ethan 2.db
Dataset Pathname stkml/pass2.1
Presentation Format _micro
Dataset Creation Sun Jun 09 23:12:31 2024
Charted by Depth in Feet scaled 1:240

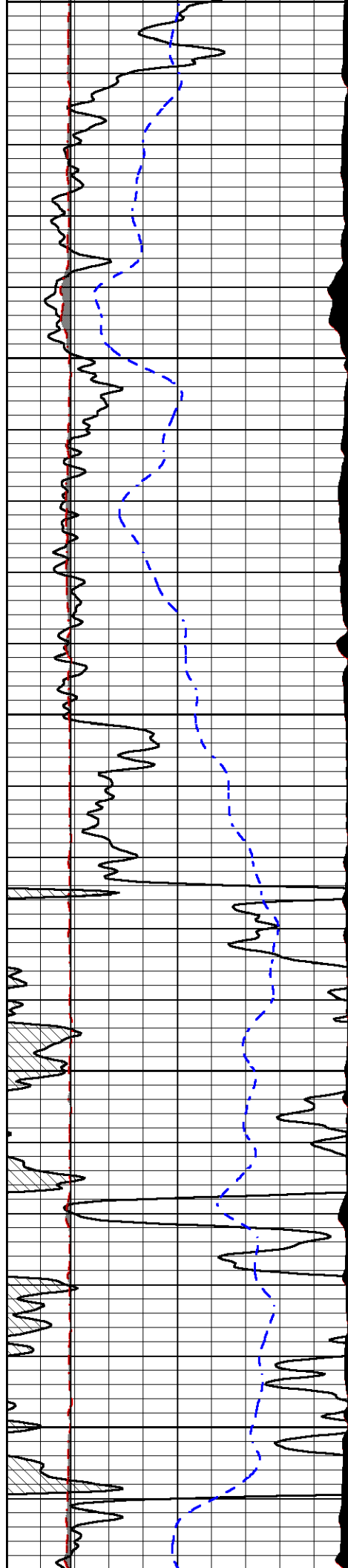


4450



4500

4550



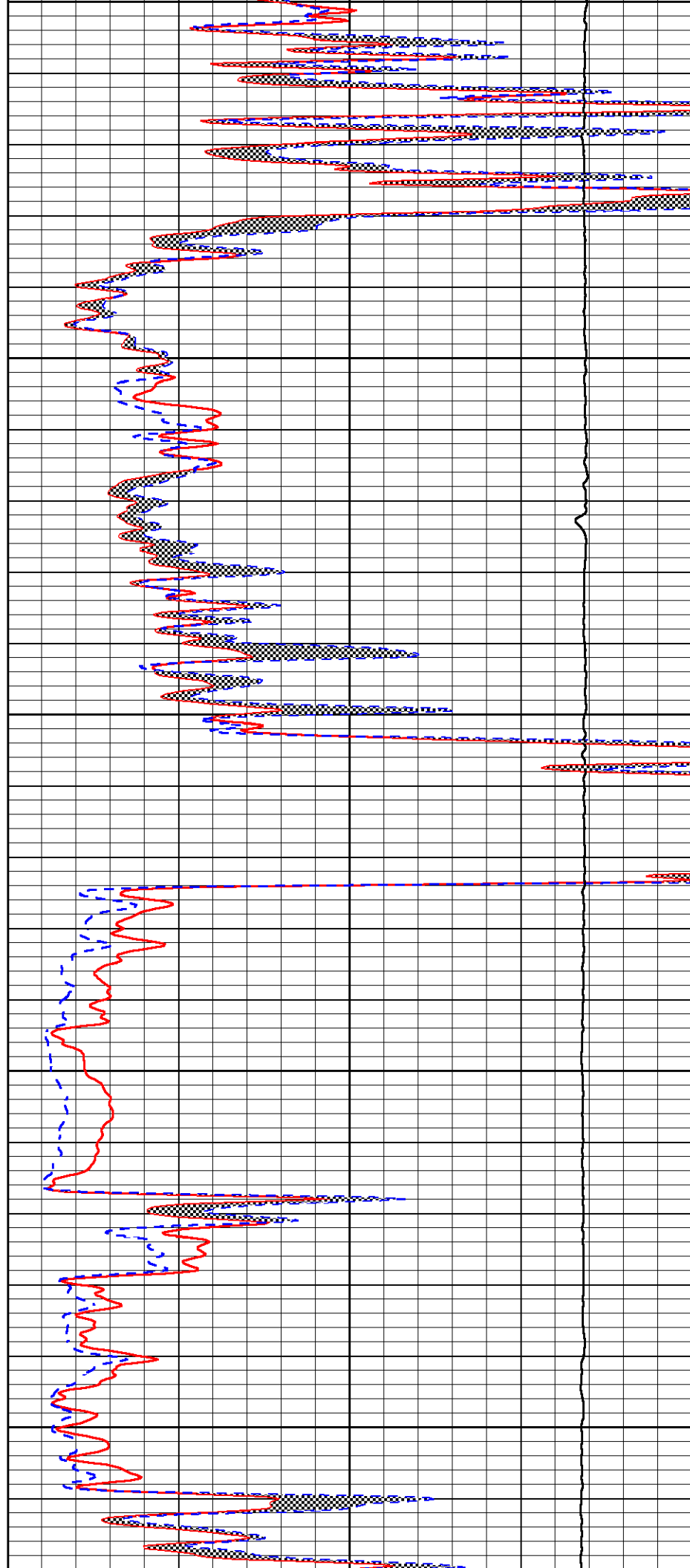
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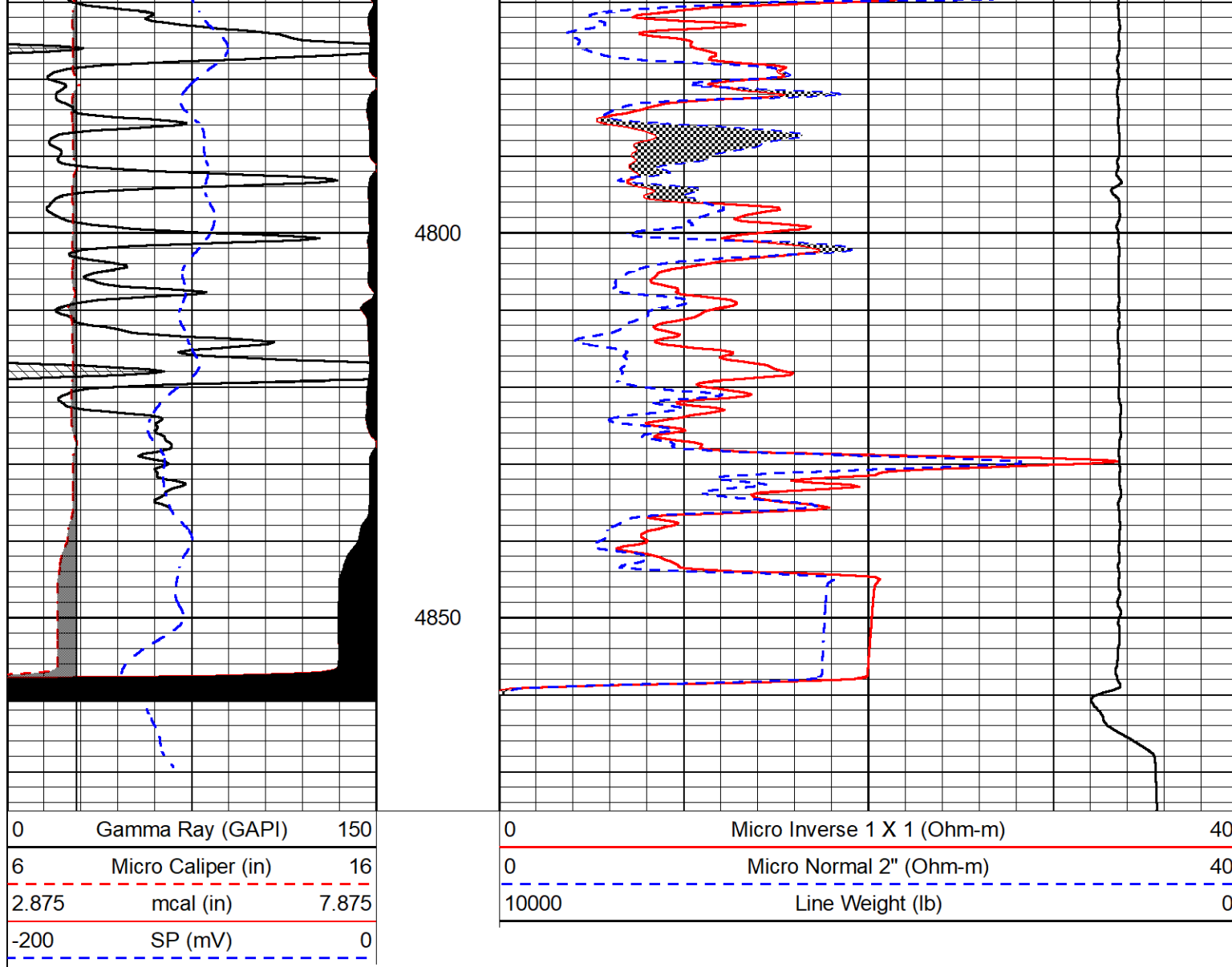
4600

4650

4700

4750





Calibration Report							
Database File	griffin_ethan 2.db						
Dataset Pathname	stkml/pass3.1						
Dataset Creation	Sun Jun 09 23:01:17 2024						
Dual Induction Calibration Report							
Serial-Model:		508A-M&W					
Surface Cal Performed:		Wed Jun 5 03:23:43 2024					
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
	Deep	84.200 428.150	0.000	255.800	mmho/m	0.485	-44.000
	Medium	141.000 670.654	0.000	255.800	mmho/m	0.410	-43.500
Microlog Calibration Report							
Serial-Model:		402-PSI STKBL ML					
Performed:		Thu May 30 05:58:00 2024					
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b

Normal	0.0037	0.0043			0.0000	10.0000	Ohm-m	11000.0000	-0.2000
Inverse	0.1208	0.0013			0.0000	10.0000	Ohm-m	14500.0000	-0.2000
Caliper	1.0046	1.1419			5.5000	20.0000	in	50.0000	-44.6250
LITHODENSITY Calibration Report									
Serial Number:		701-01							
Tool Model:		STEP LITHO Short							
Performed:		Fri May 31 11:21:55 2024							
Source:									
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	51	53	204	248	24	67	43	1	cps
LS:	76	85	326	418	46	135	87	2	cps
Aluminum:									
SS:	1068	1312	3049	2764	50	71	47	3	cps
LS:	1190	2281	4191	1907	55	132	82	5	cps
Magnesium:									
SS:	1763	2130	5001	4004	56	72	46	5	cps
LS:	4893	9012	16271	6524	121	127	83	16	cps
Aluminum+Iron:									
SS:	685	924	2571	2406	45	72	47	3	cps
LS:	694	1582	3562	1707	54	132	84	4	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.222		
LS:							0.216		
Aluminum:									
SS:		2.6000	2.6000	g/cc			0.201		
LS:		2.6000	2.6000	g/cc			0.230		
Magnesium:									
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.223		
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.211		
Aluminum+Iron:									
SS:						6.1800	0.204		
LS:						6.1800	0.223		

Caliper:		Reference:		Reading:	
Small Ring:		6.0	in	0.2	
Large Ring:		14.0	in	0.8	
Gain:		12.765			
Offset:		2.575			

Compensated Neutron Calibration Report						
		Serial Number:		210		
		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

Gamma Ray Calibration Report					
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Serial Number:		105			
Tool Model:		M&W			

Tool Model:
Performed:

M&V
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

Ethan #2

Field

County

Barber

State

Kansas