



MICRORESISTIVITY LOG

MIDWEST WIRELINE

CompanyCampbell Energy, LLC	
Well	Gibson #1
Field	
County	Barber
State	Kansas
Company Campbell Energy, LLC	
Well	Gibson #1
Field	
County	Barber
State	Kansas
Location: API #: 15-007-24488-00-00	
SE NW NE NE 646 FNL & 674 FEL SEC 20 TWP 30S RGE 15W	
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	1770
Other Services	CNL/CDL DIL
K.B.	1775
D.F.	
G.L.	1770
Date	12/31/2023
Run Number	One
Depth Driller	4739
Depth Logger	4740
Bottom Logged Interval	4739
Top Log Interval	2800
Casing Driller	8,625 @ 892
Casing Logger	889
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	5000
Density / Viscosity	9.3 54
pH / Fluid Loss	11.0 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.50 @ 55
Rmt @ Meas. Temp	0.38 @ 55
Rmc @ Meas. Temp	0.68 @ 55
Source of Rmt / Rmc	CHARTS
Rm @ BHT	0.22 @ 123
Operating Rig Time	3 Hours
Max Rec. Temp. F	123
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 River Rd,
about 1 mile East, North into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

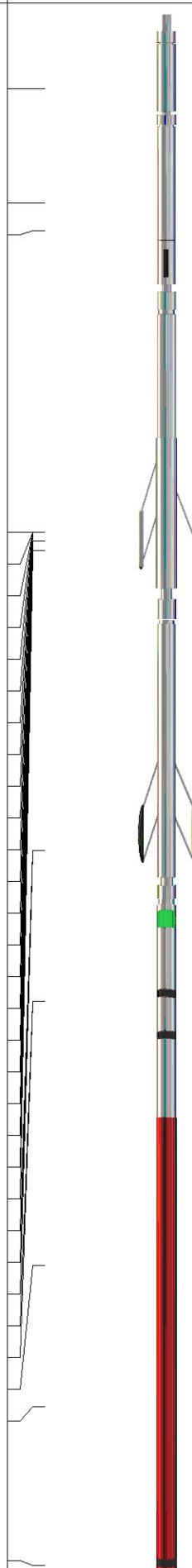
THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

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 (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		DIL-M&W (505 HT)		18.25	3.50	220.00
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						
MI	19.58						
MN	19.58						
RLL3F	15.50						
RLL3	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						

Dataset: campbell_gibson 1.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\campbell_gibson 1.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	119	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		-3	5	130	40		4740

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



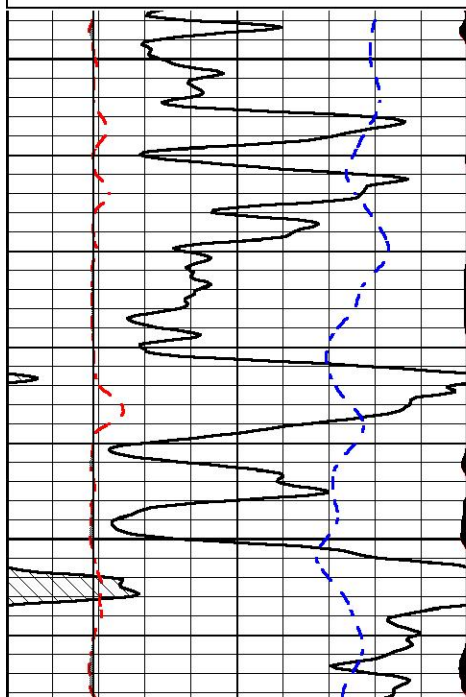
DETAIL SECTION

MAIN PASS

Database File campbell_gibson 1.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Sun Dec 31 16:19:54 2023
Charted by Depth in Feet scaled 1:240

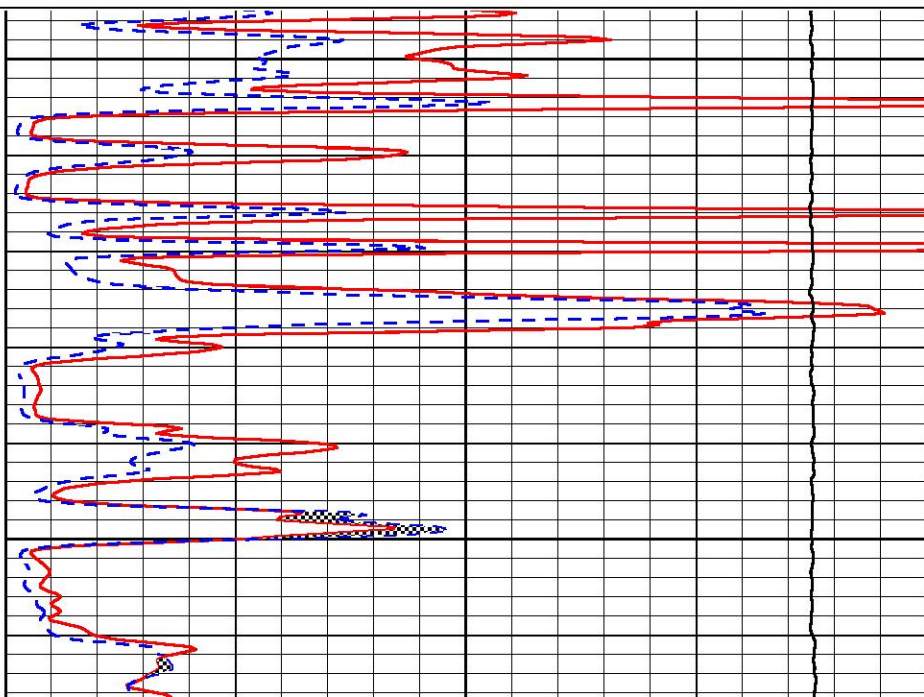
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

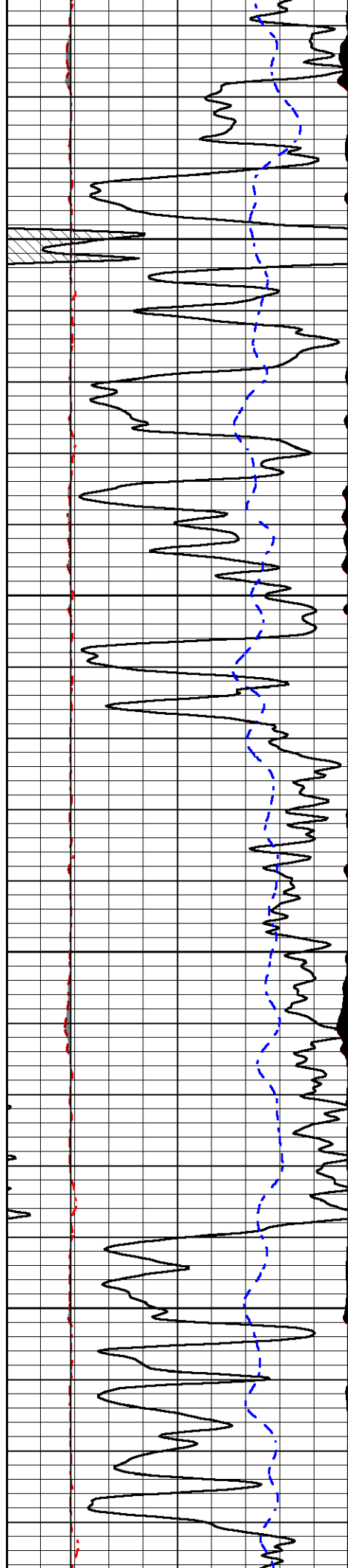
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2800

2850



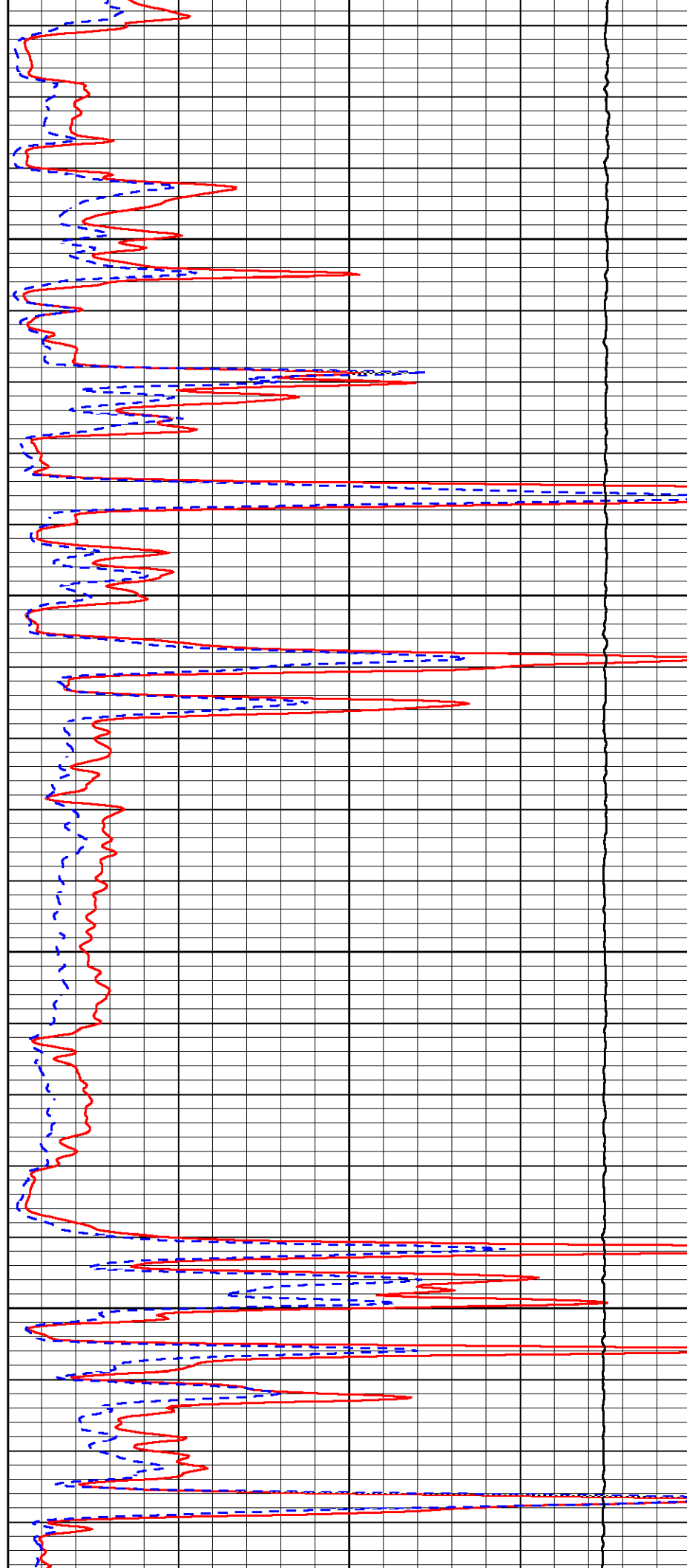


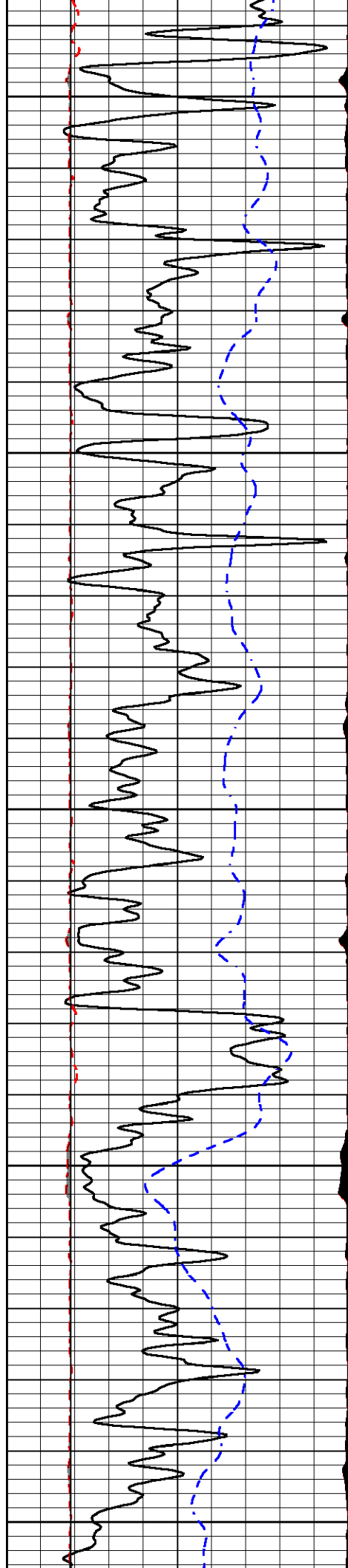
2900

2950

3000

3050





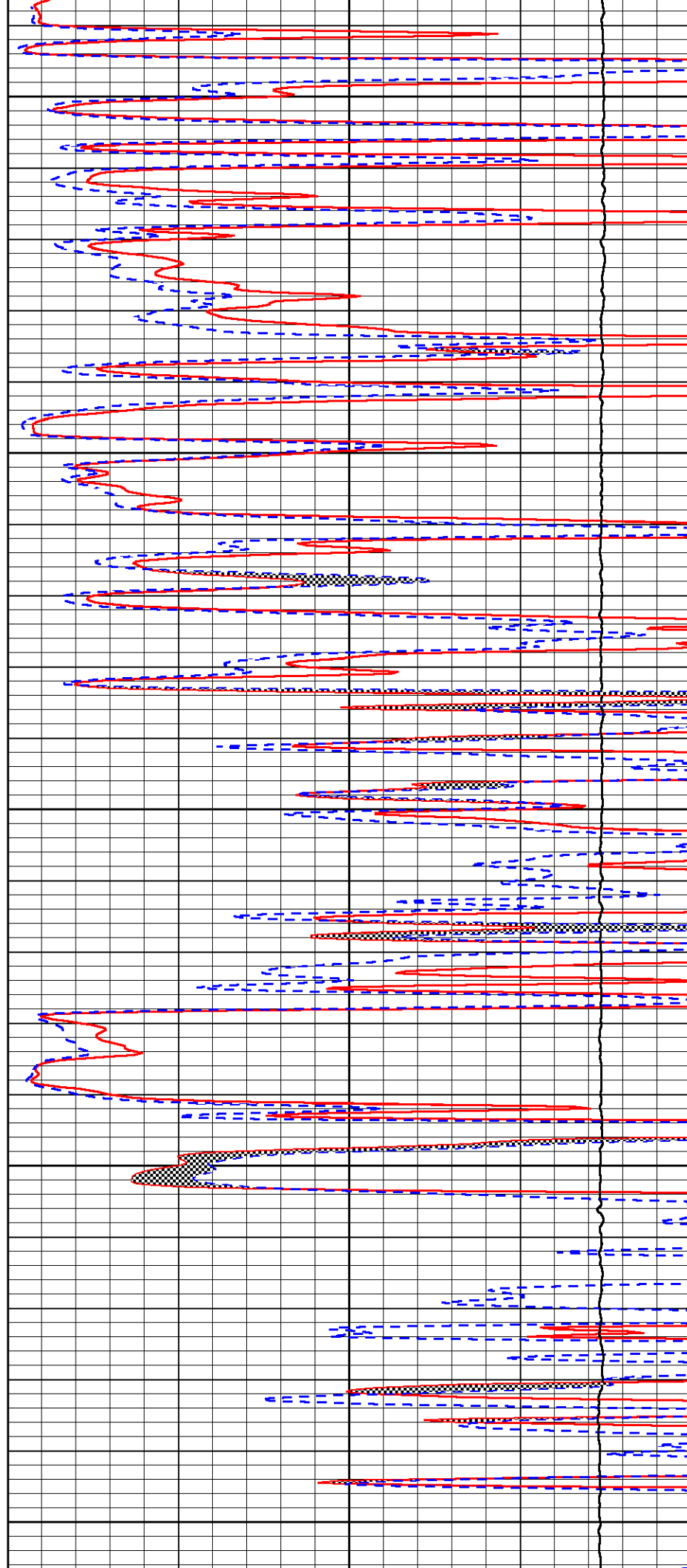
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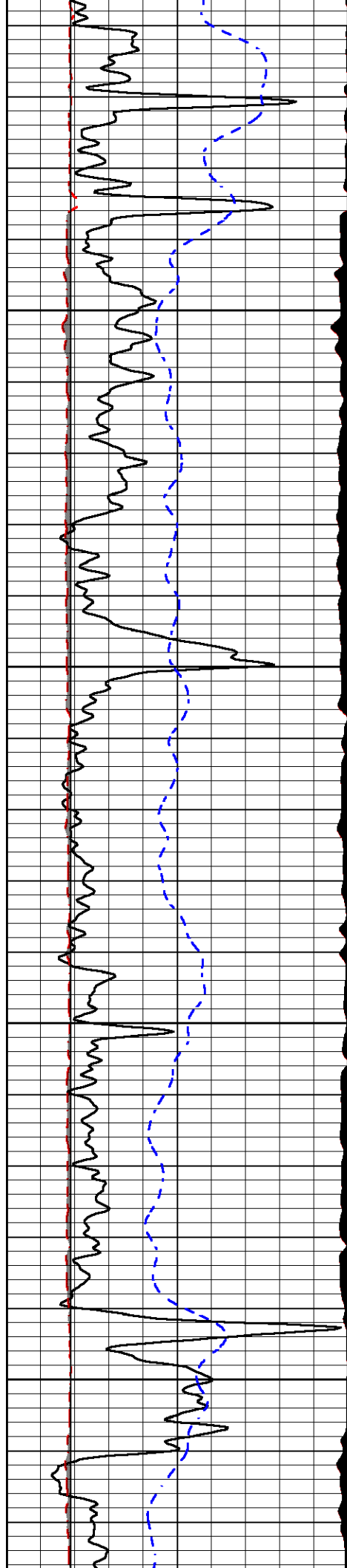
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3200

3250

3300



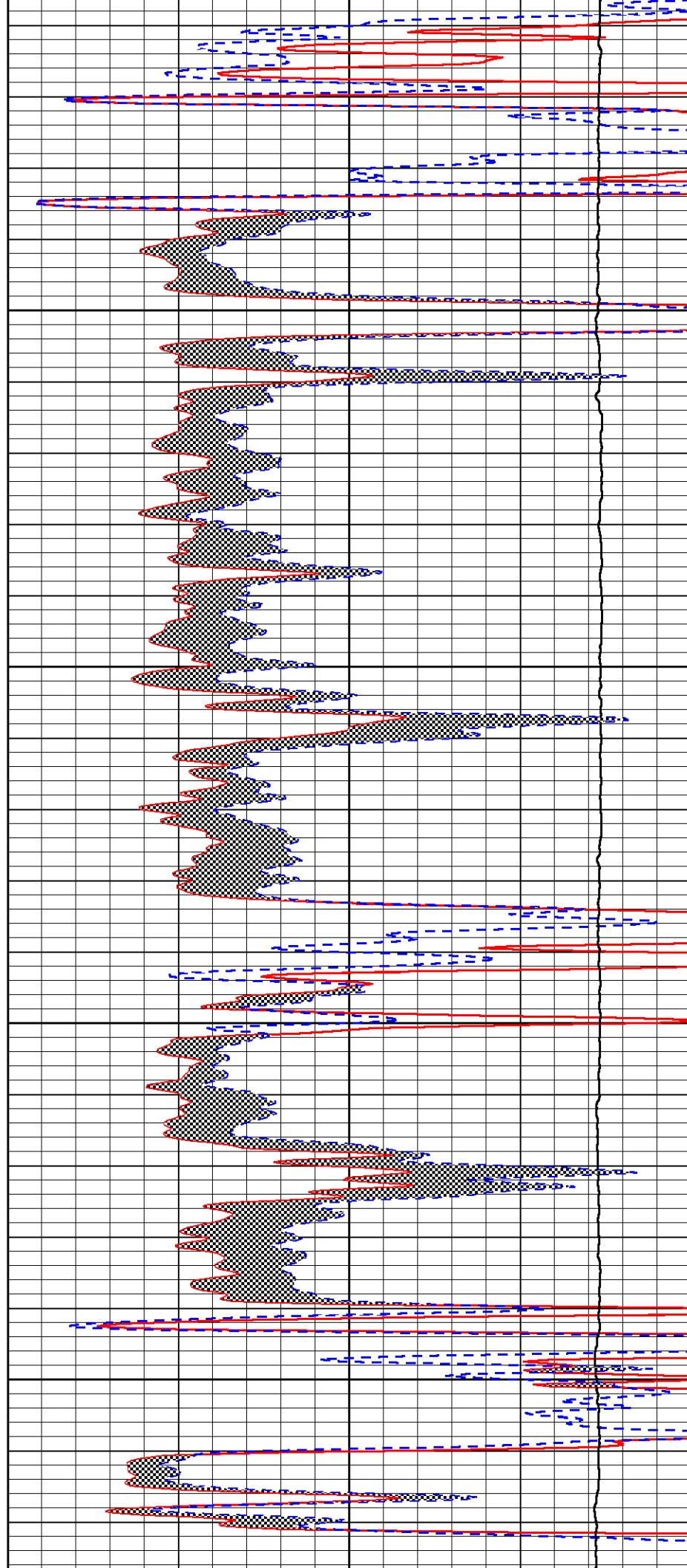


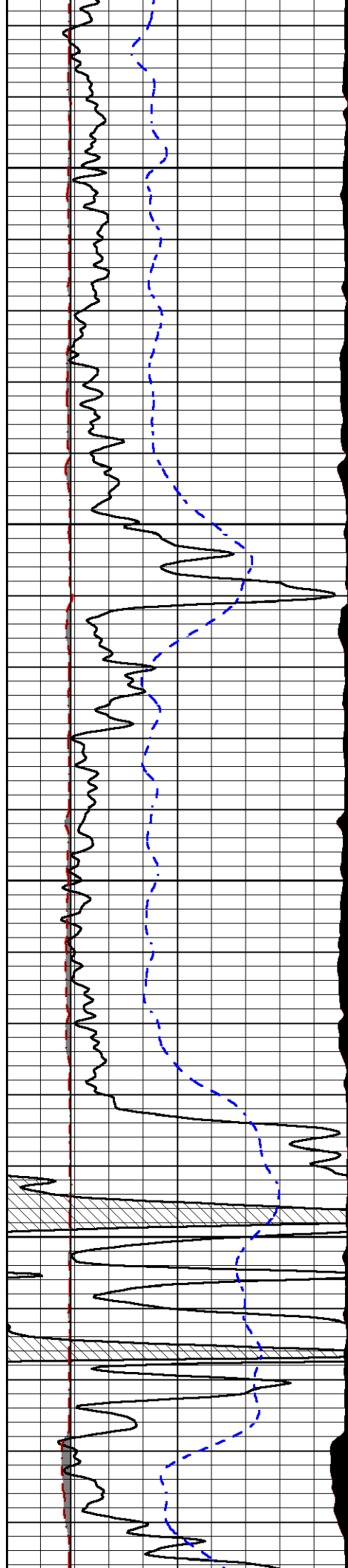
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3400

3450

3500



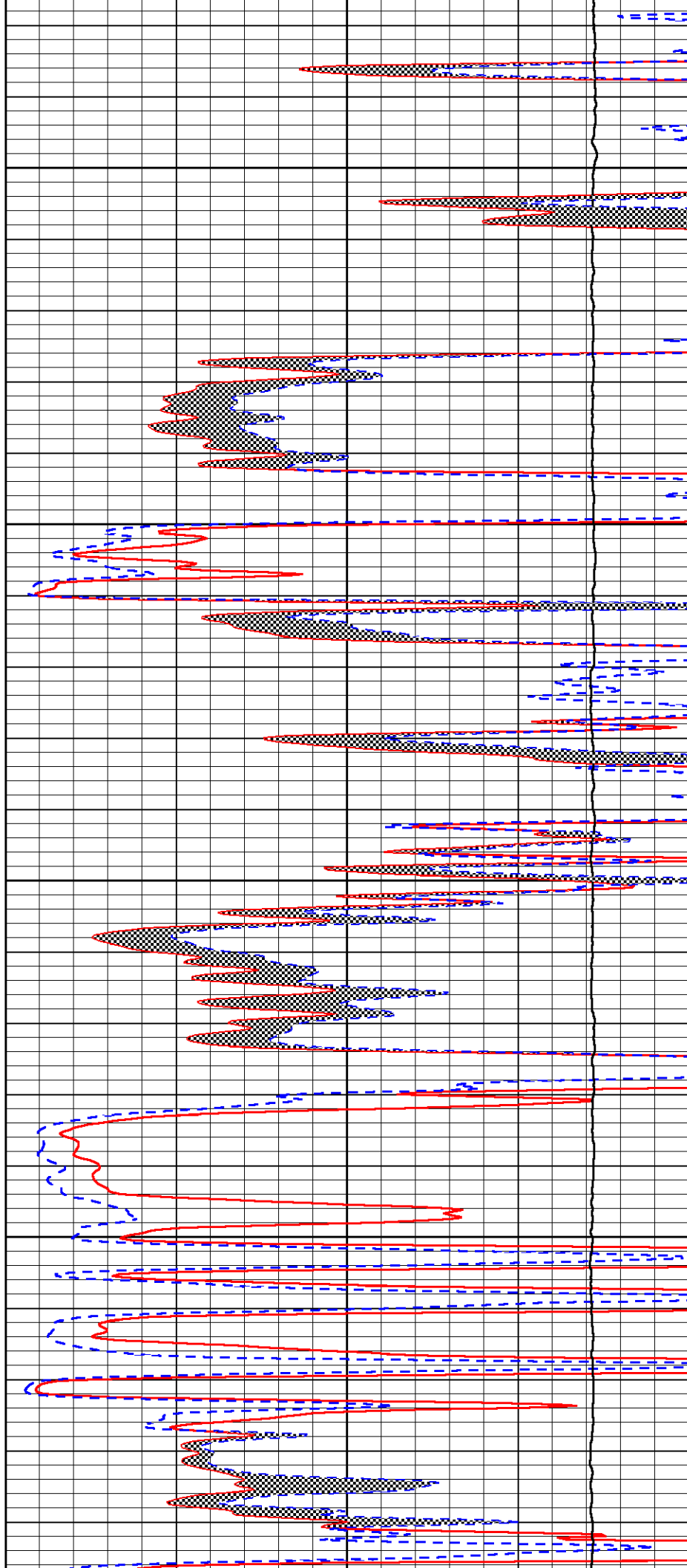


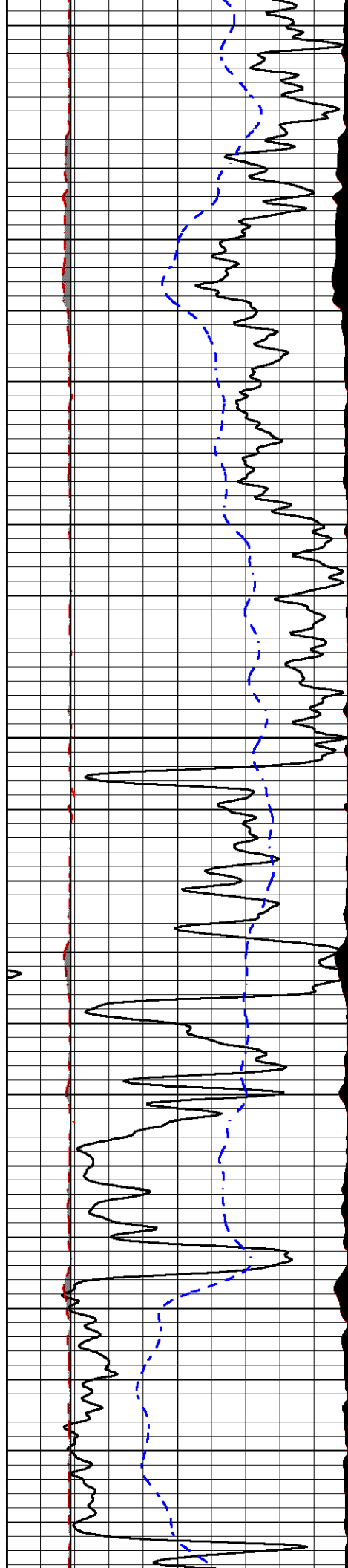
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3600

3650

3700





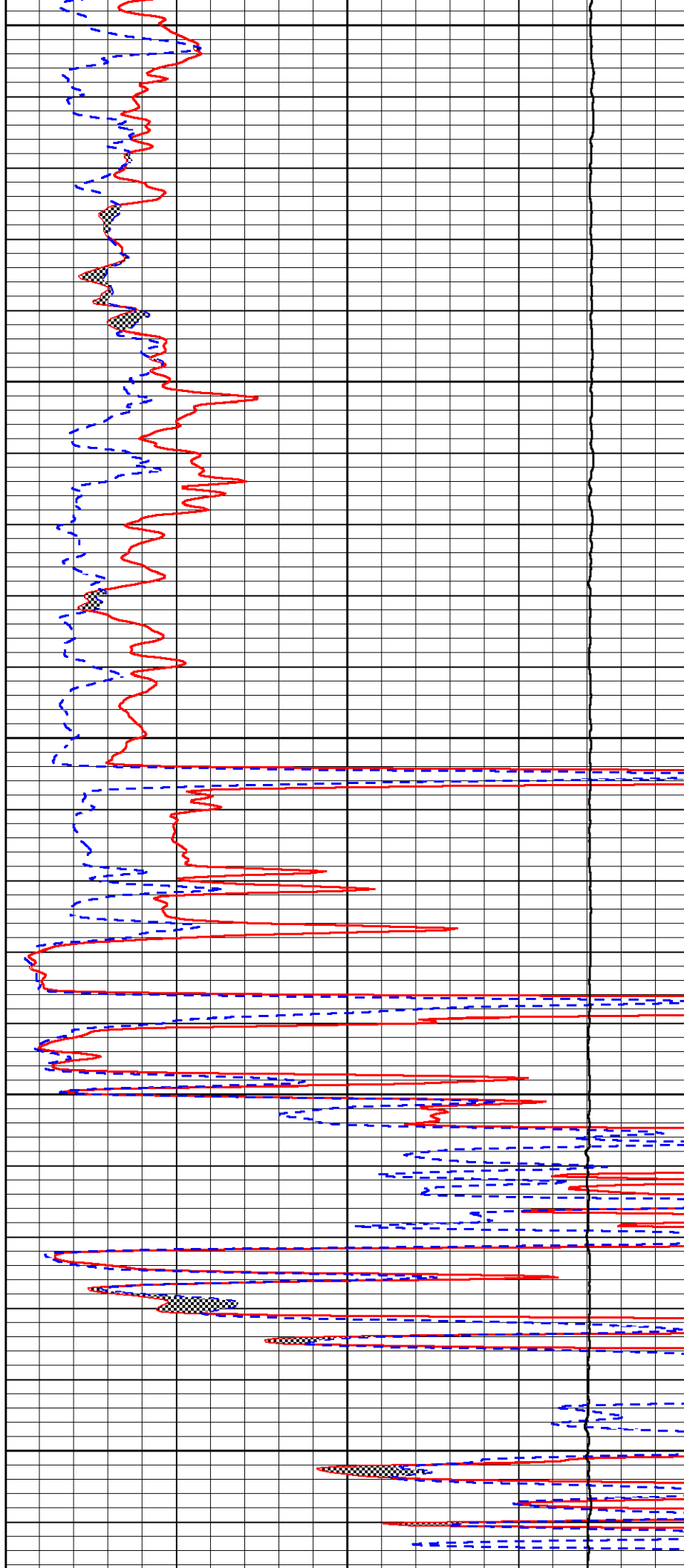
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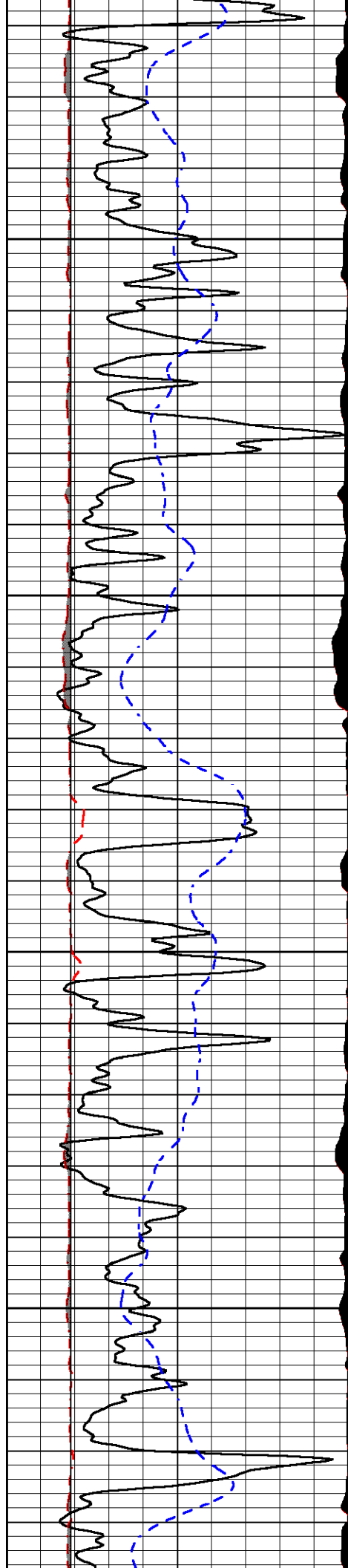
3800

3850

3900

3950



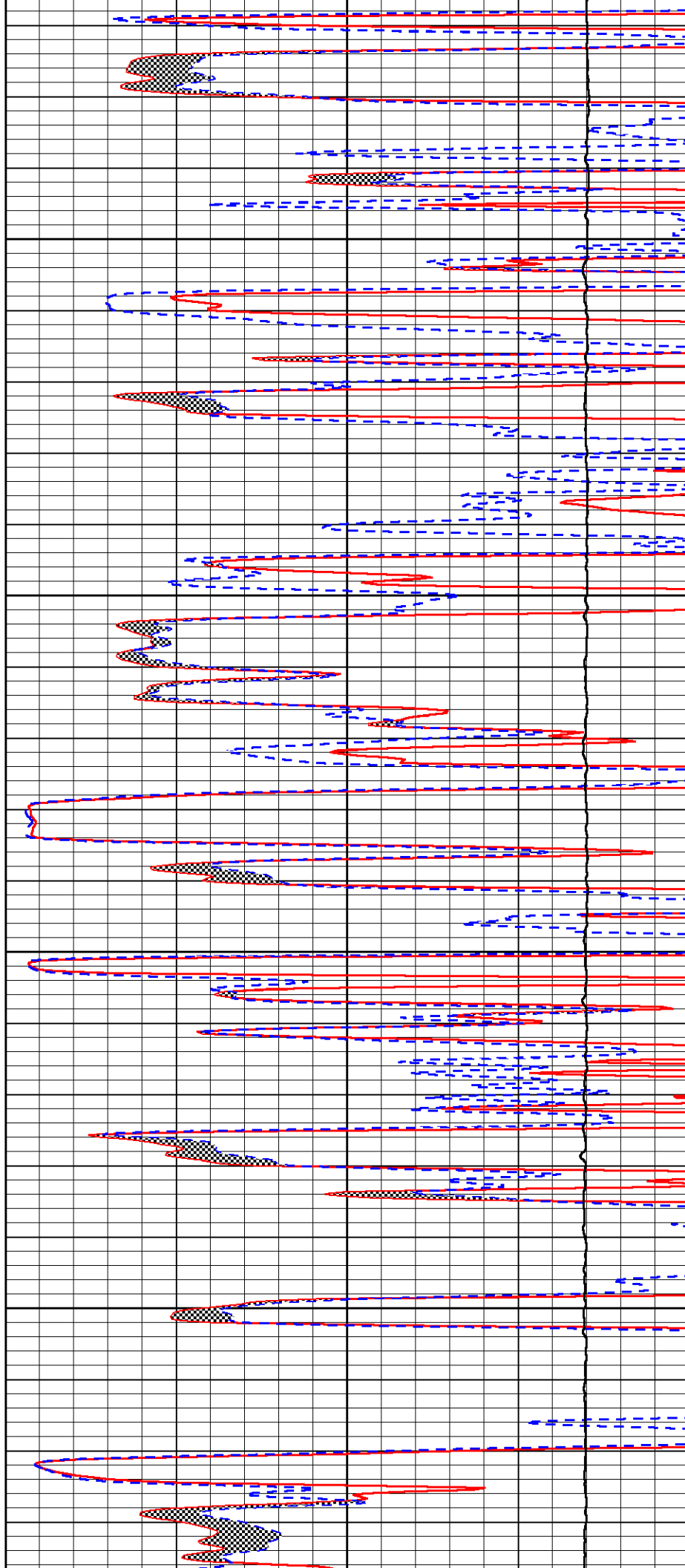


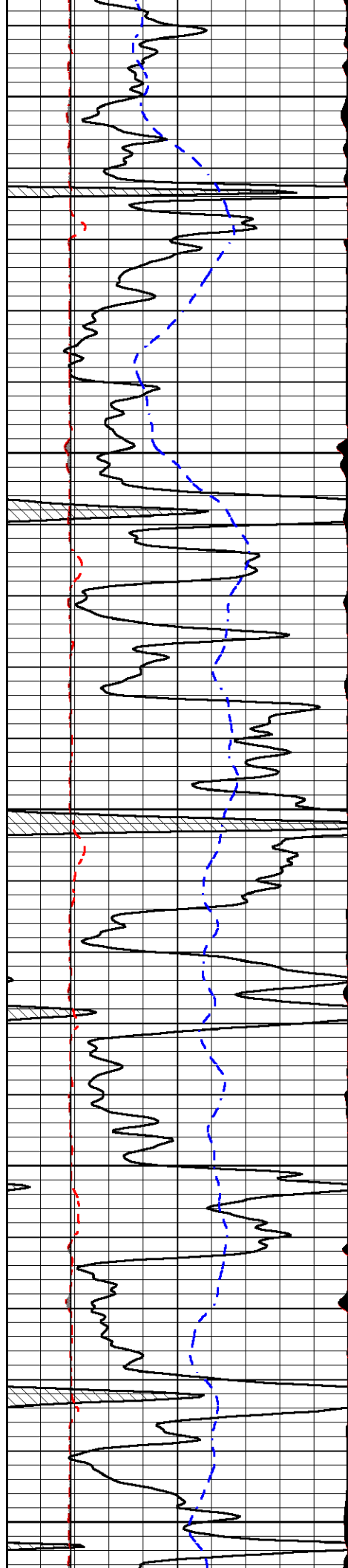
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4050

4100

4150





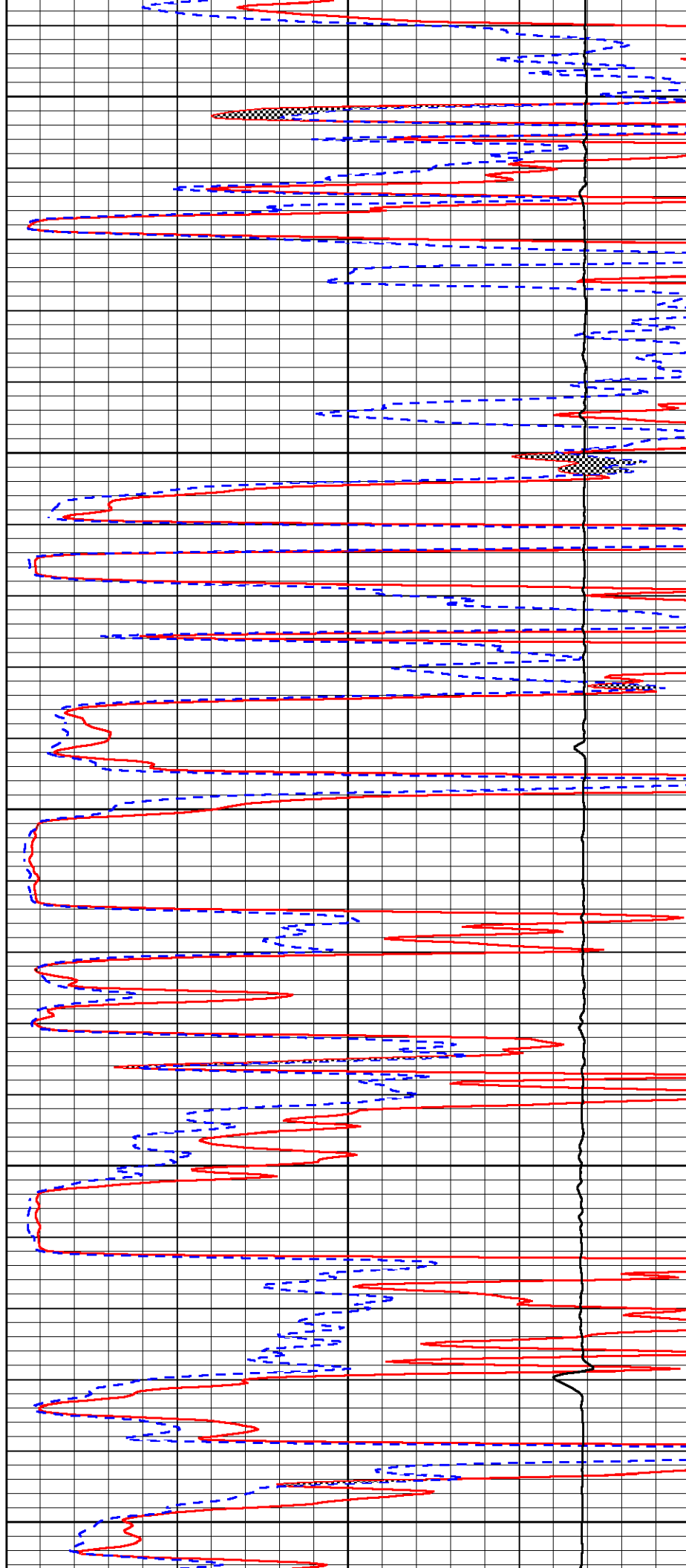
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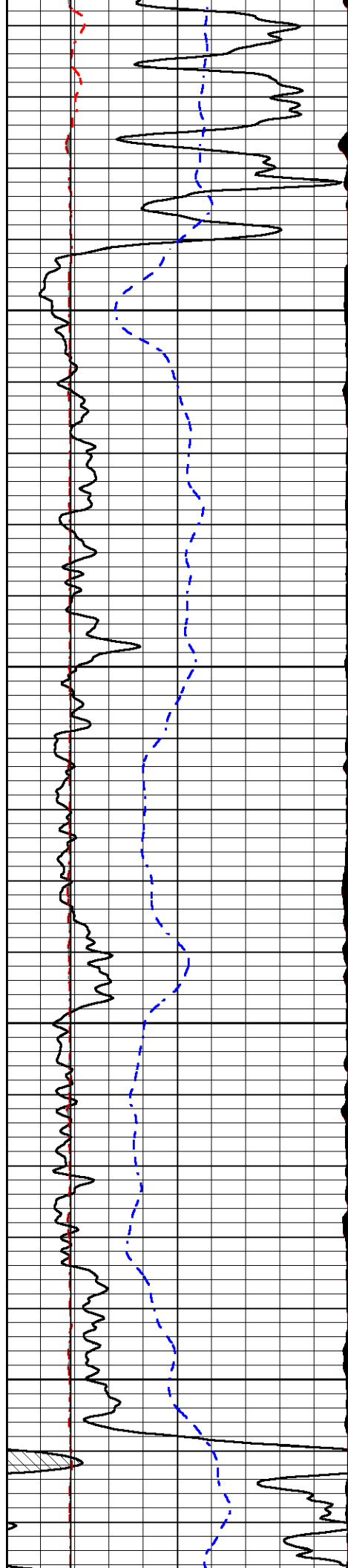
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4300

4350

4400



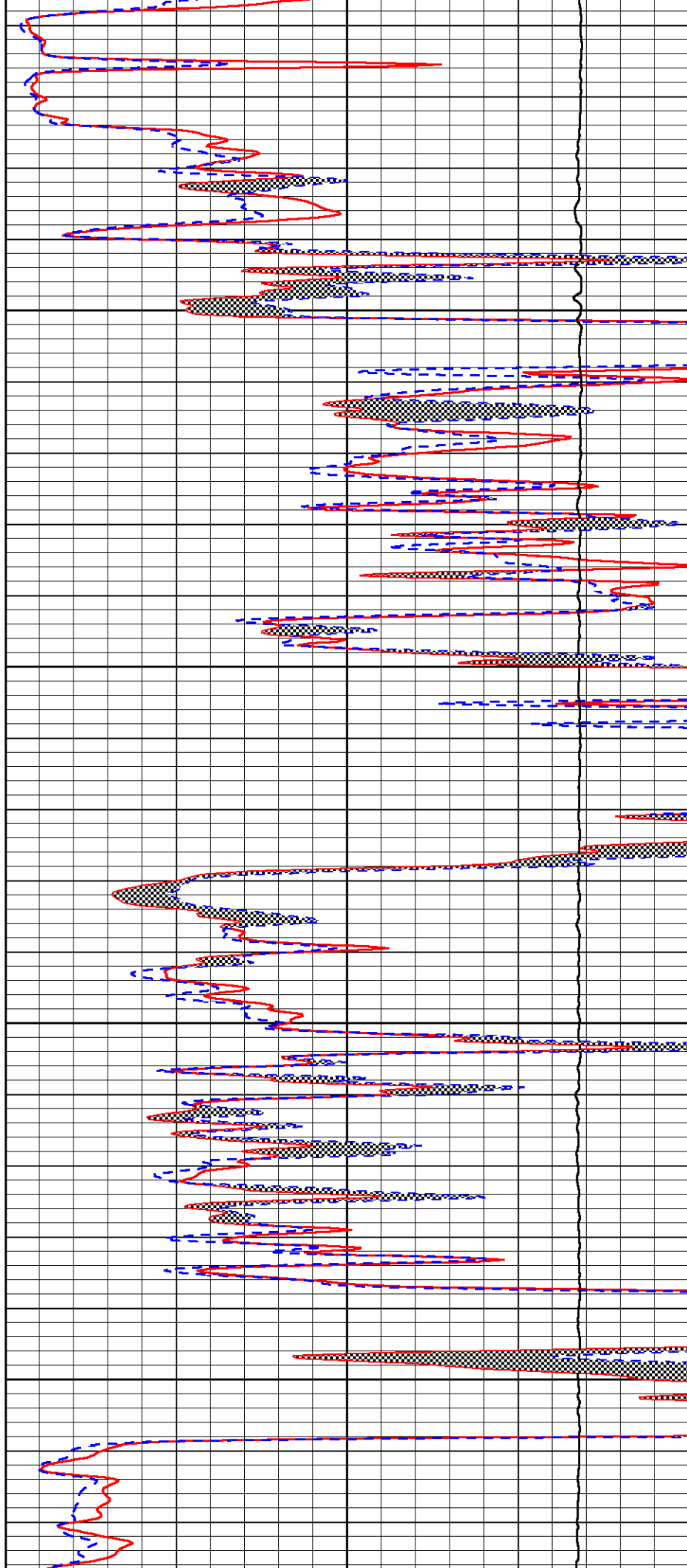


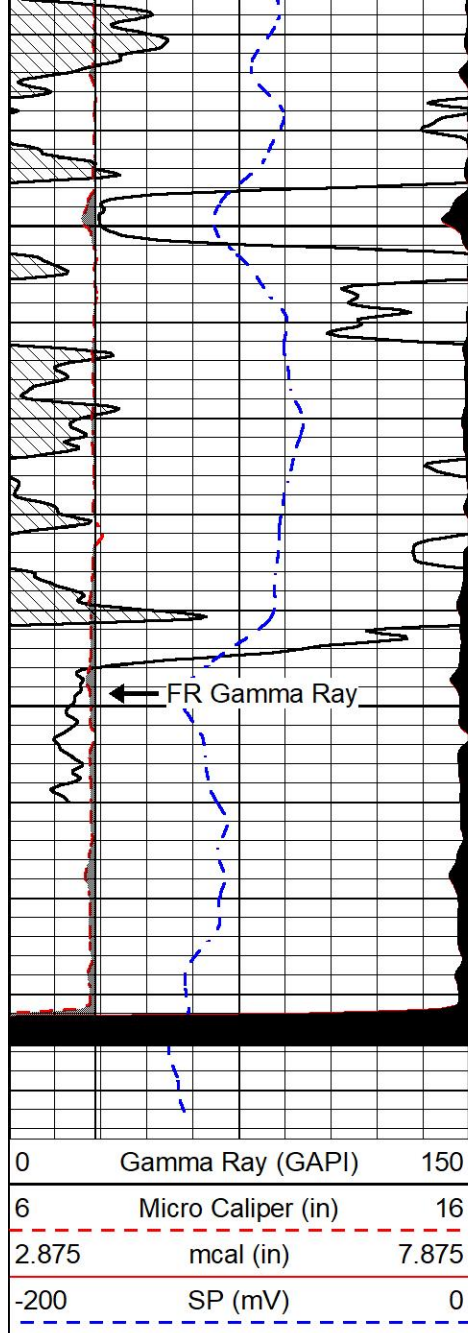
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4500

4550

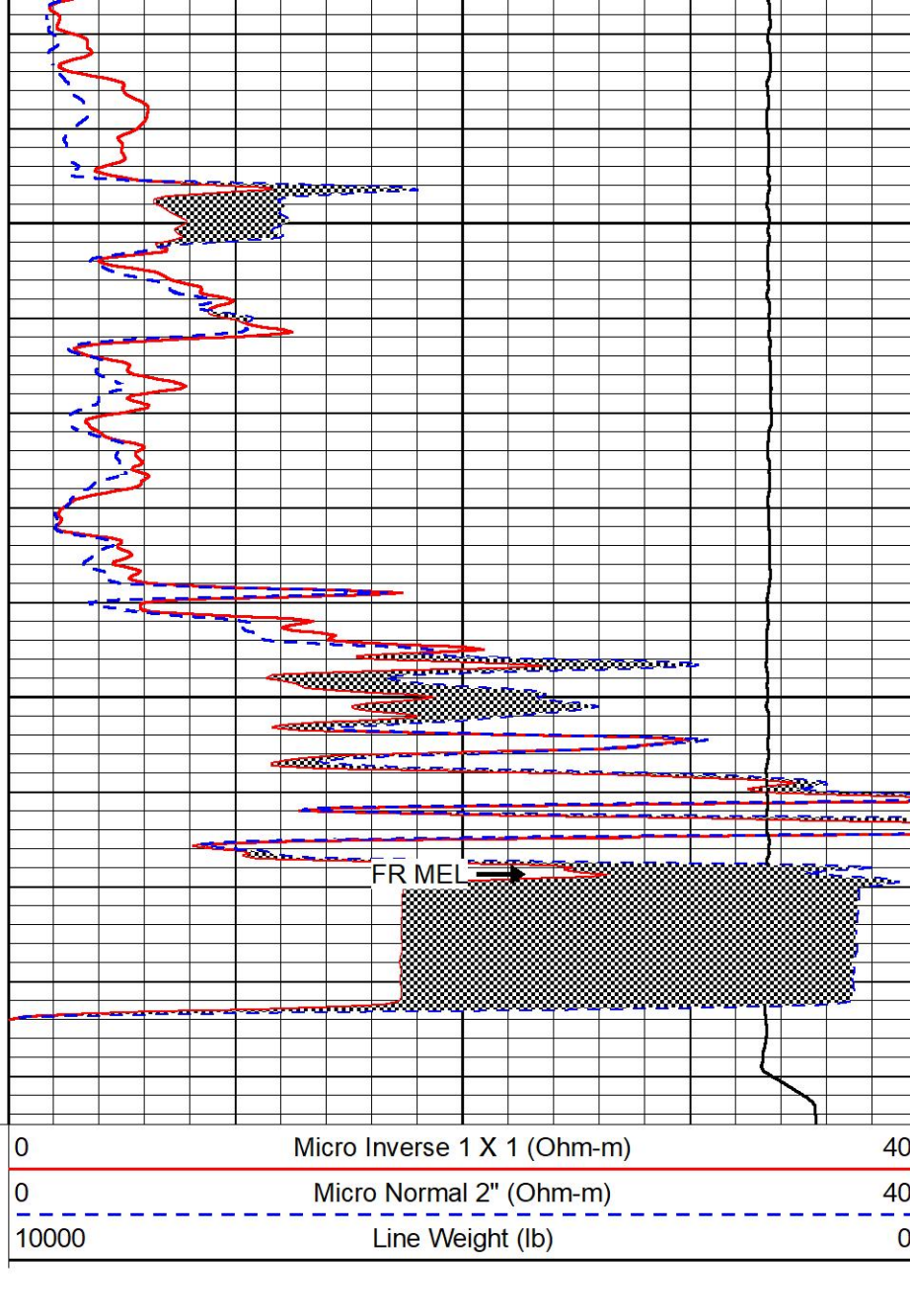
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4650

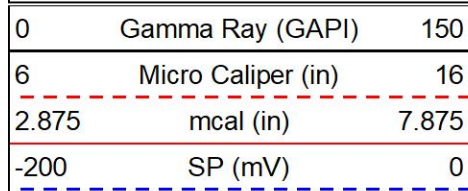
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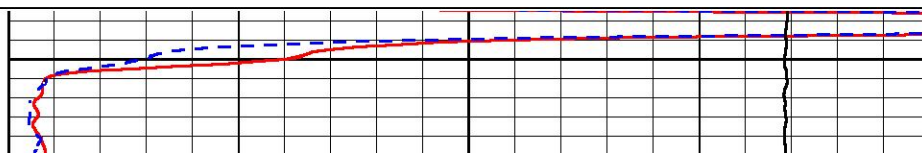
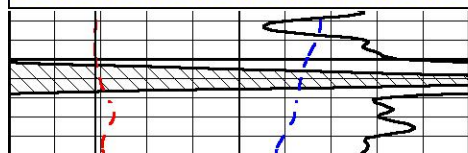
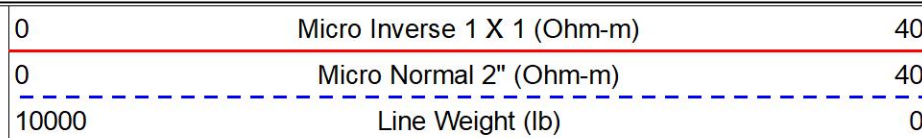
REPEAT SECTION

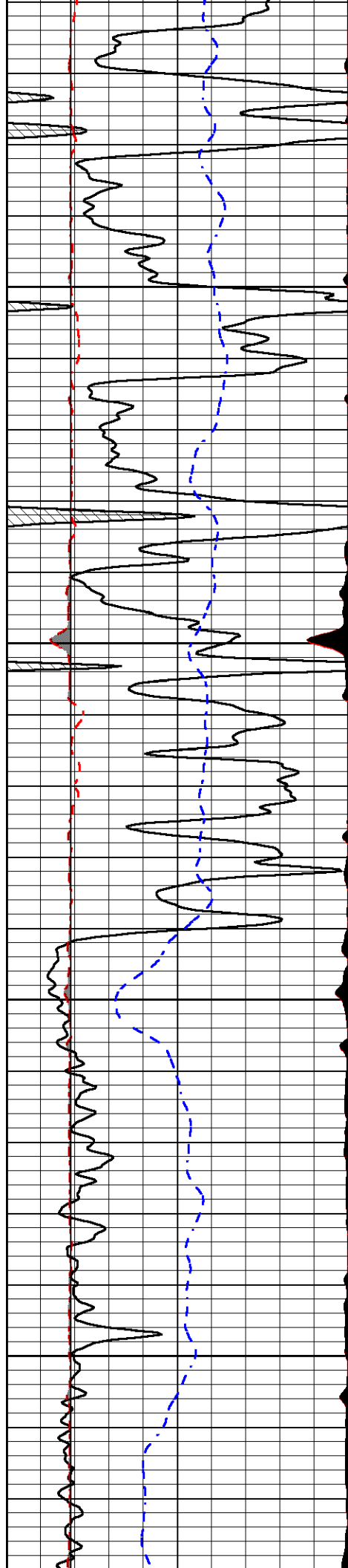
REPEAT PASS

Database File: campbell_gibson 1.db
 Dataset Pathname: stkml/pass2.1
 Presentation Format: _micro
 Dataset Creation: Sun Dec 31 15:56:19 2023
 Charted by: Depth in Feet scaled 1:240



4300



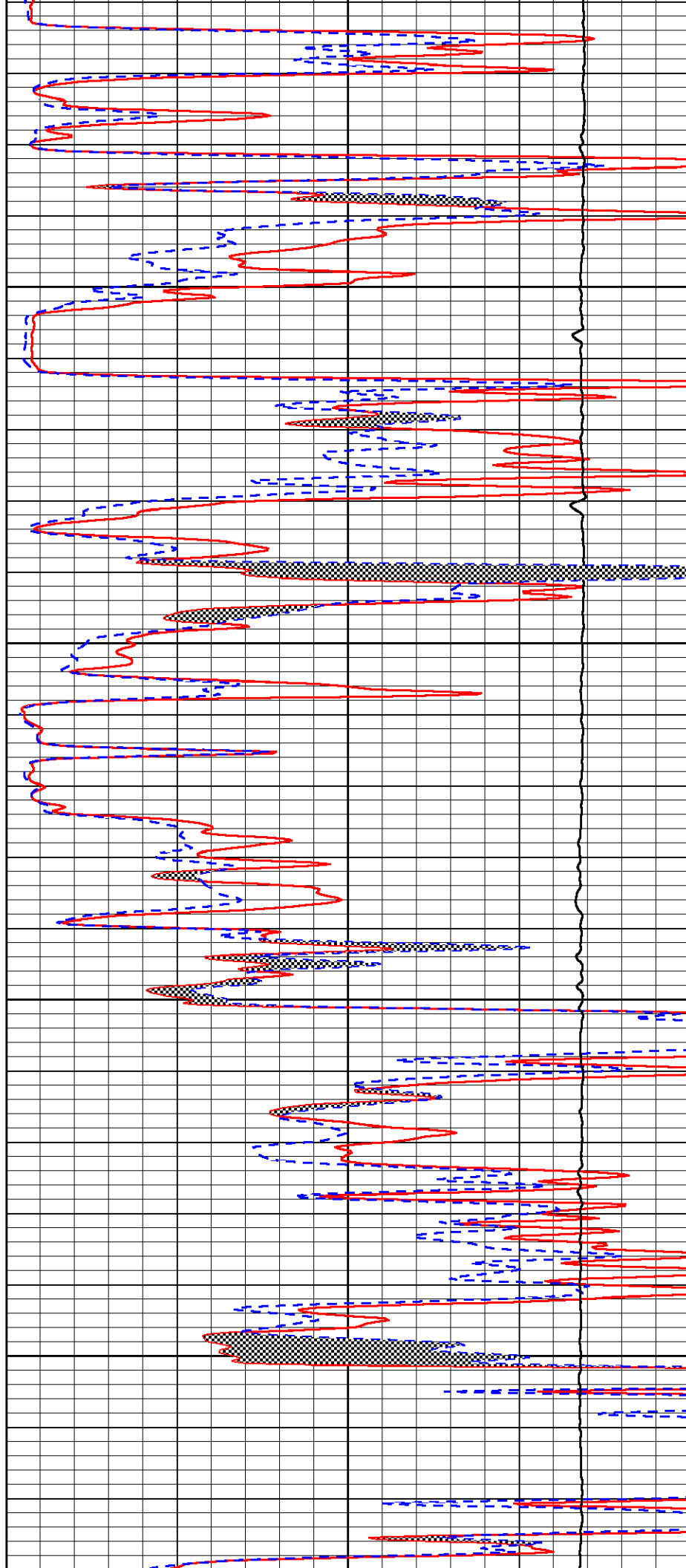


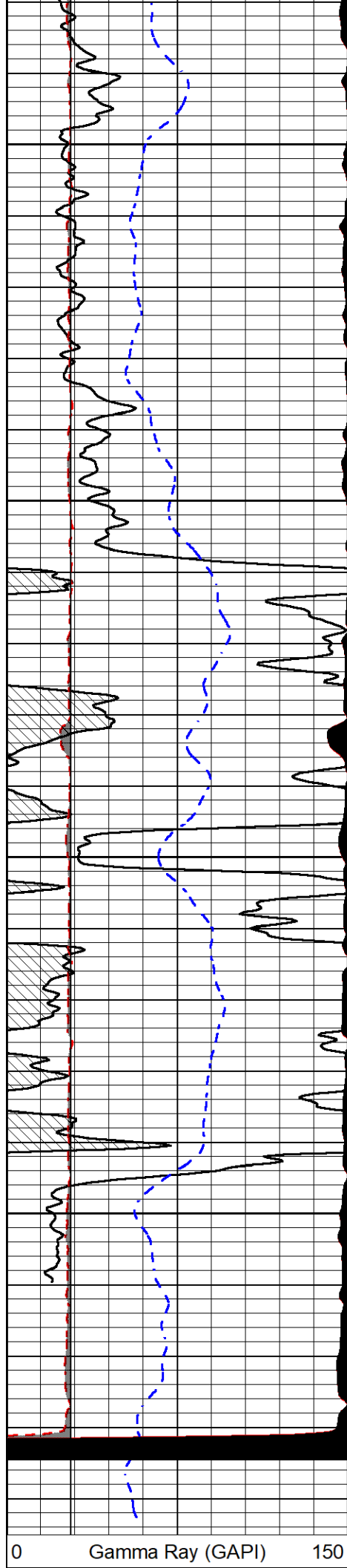
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4400

4450

4500





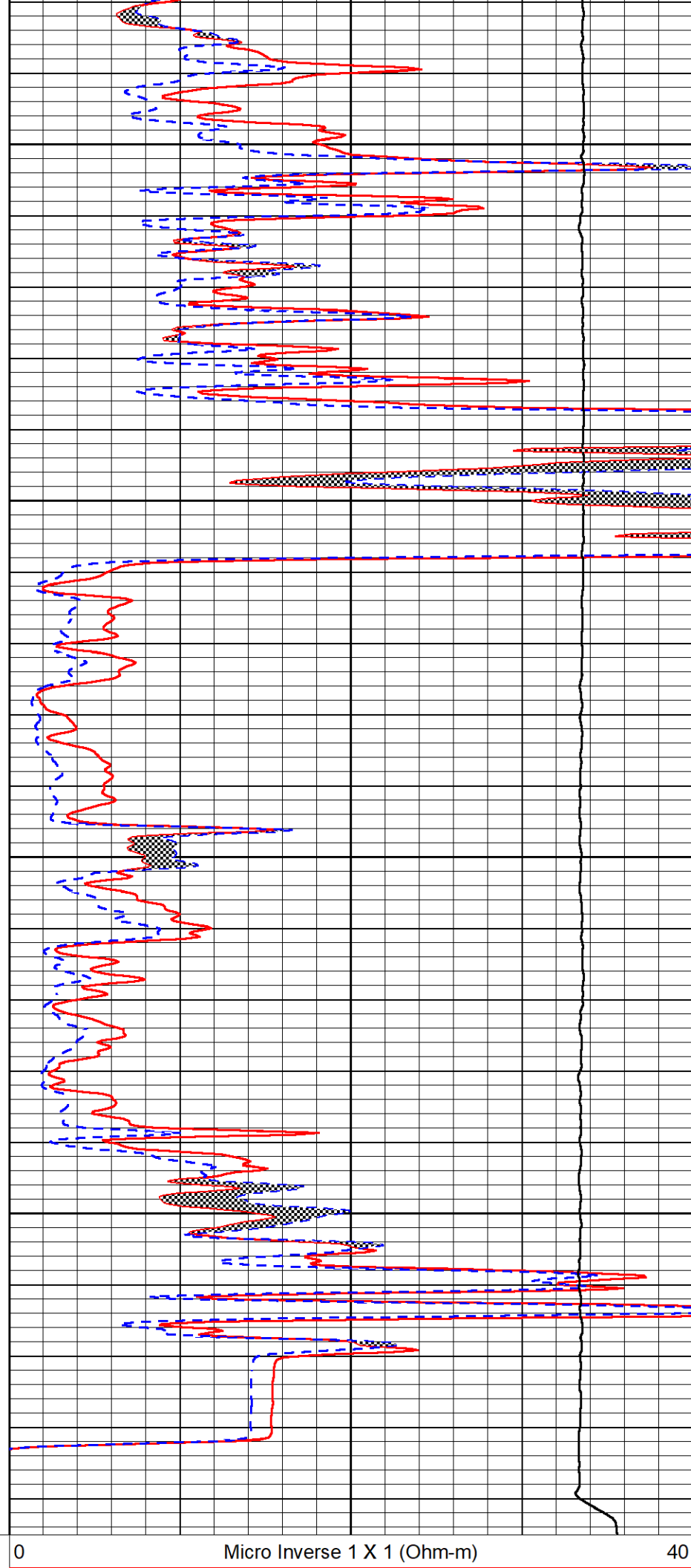
4550

4600

4650

4700

0 Gamma Ray (GAPI) 150



0 Micro Inverse 1 X 1 (Ohm-m) 40

Serial Number:	701-01								
Tool Model:	STEP LITHO Short								
Performed:	Fri Dec 15 13:02:54 2023								
Source:									
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	50	53	200	252	23	67	44	1	cps
LS:	78	88	332	424	48	131	87	3	cps
Aluminum:									
SS:	1069	1323	3068	2763	51	72	47	3	cps
LS:	1171	2261	4196	1923	57	133	82	6	cps
Magnesium:									
SS:	1756	2109	4999	4049	59	72	48	5	cps
LS:	4803	8914	16228	6562	125	123	85	17	cps
Aluminum+Iron:									
SS:	682	909	2535	2363	47	72	47	3	cps
LS:	682	1582	3537	1707	57	132	82	5	cps
	Density				PE				
	Actual	Calibrated			Actual	Calibrated	Quality		
Background:									
SS:	0.201								

LS:						0.203
Aluminum:						
SS:	2.6000	2.6000	g/cc			0.208
LS:	2.6000	2.6000	g/cc			0.236
Magnesium:						
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.205
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.183
Aluminum+Iron:						
SS:					6.1800	0.210
LS:					6.1800	0.234

Caliper:	Reference:	Reading:
Small Ring:	6.0 in	0.2
Large Ring:	16.0 in	0.8
Gain:	14.000	
Offset:	2.000	

Compensated Neutron Calibration Report
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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

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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

 MIDWEST WIRELINE	Company	Campbell Energy, LLC
	Well	Gibson #1
	Field	
	County	Barber
	State	Kansas