



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company Ressler Well Service, Inc.		Company Ressler Well Service, Inc.	
Well Teten B #15	Well Teten B #15		
Field Burrton	Field Burrton		
County Reno	County Reno		
State Kansas	State Kansas		
Location: API #: 15-155-21780-00-00		Other Services	
SEC 12 TWP 23S RGE 4W		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	1487'
Log Measured From	Kelly Bushing	K.B.	1499'
Drilling Measured From	Kelly Bushing	D.F.	N/A
		G.L.	1487'
Date	10/12/2020		
Run Number	One		
Depth Driller	3875'		
Depth Logger	3870'		
Bottom Logged Interval	3869'		
Top Log Interval	2300'		
Casing Driller	13.375" @ 299'		
Casing Logger	296'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4100		
Density / Viscosity	9.2 52		
pH / Fluid Loss	9.0 10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.60 @ 60		
Rmt @ Meas. Temp	0.45 @ 60		
Rmc @ Meas. Temp	0.81 @ 60		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.31 @ 115		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	115		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Larry Ressler	Roger Martin	

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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.

Burrton,
West to Woodberry Rd, 2 North, 1/2 West,
North and East to location

Log Measured From: Kelly Bushing 12 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: Larry Ressler		
Operator:	Secondary Witness: Roger Martin		
Operator:	Secondary Witness:		
Operator:	Secondary Witness:		

Log Variables

DatabaseC:\ProgramData\Warrior\Data\ressler_teten b 15.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	100	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	135	0		0

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



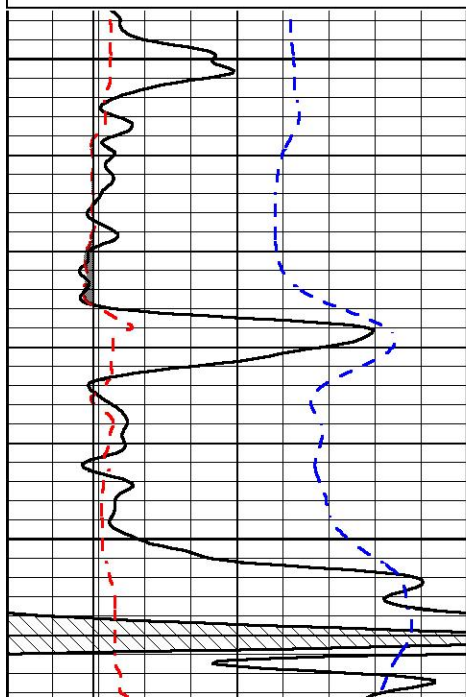
MIDWEST WIRELINE

MAIN PASS

Database File ressler_teten b 15.db
Dataset Pathname STKML/pass3.1
Presentation Format _micro
Dataset Creation Mon Oct 12 08:01:07 2020
Charted by Depth in Feet scaled 1:240

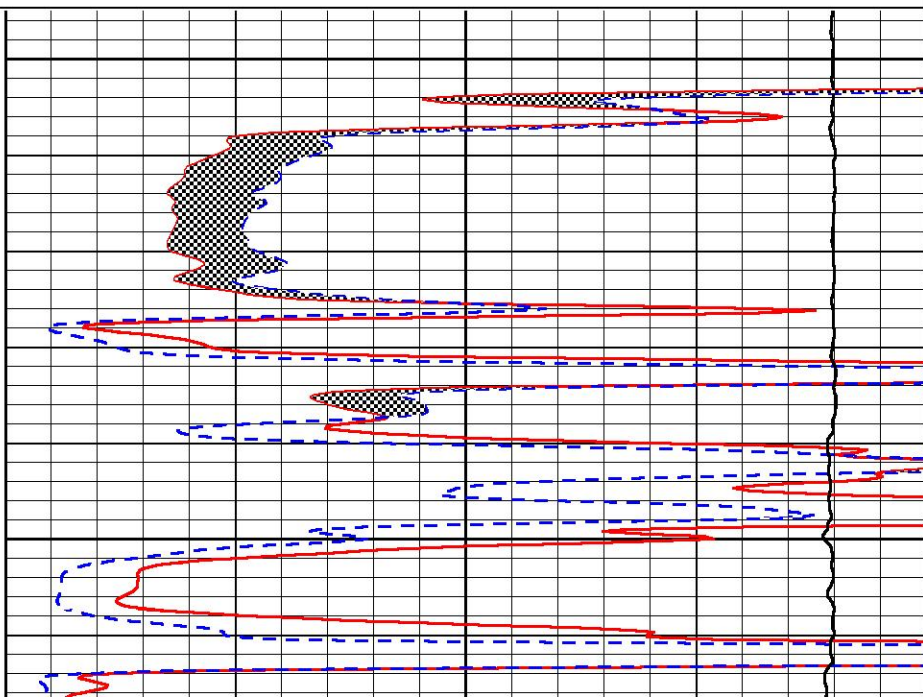
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-200	sp (mV)	0

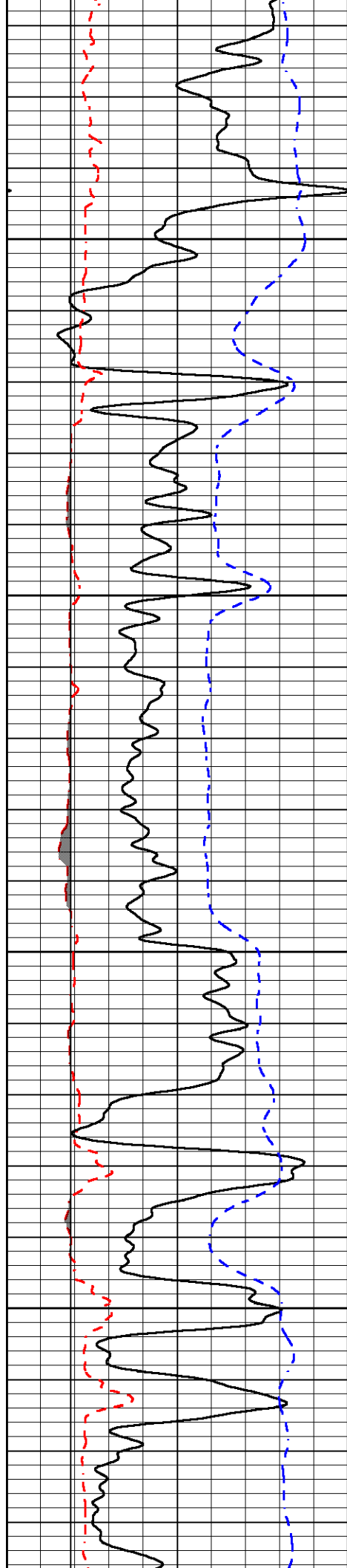
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2300

2350



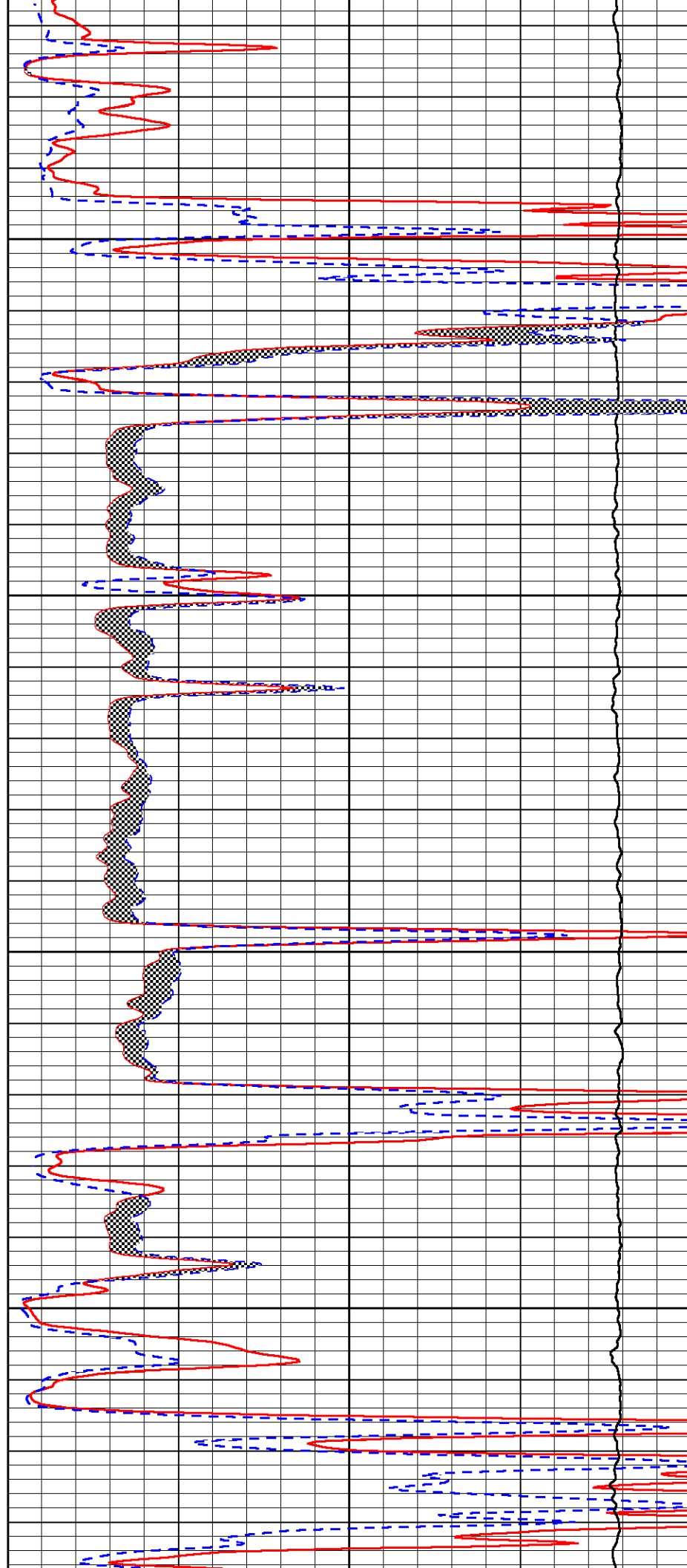


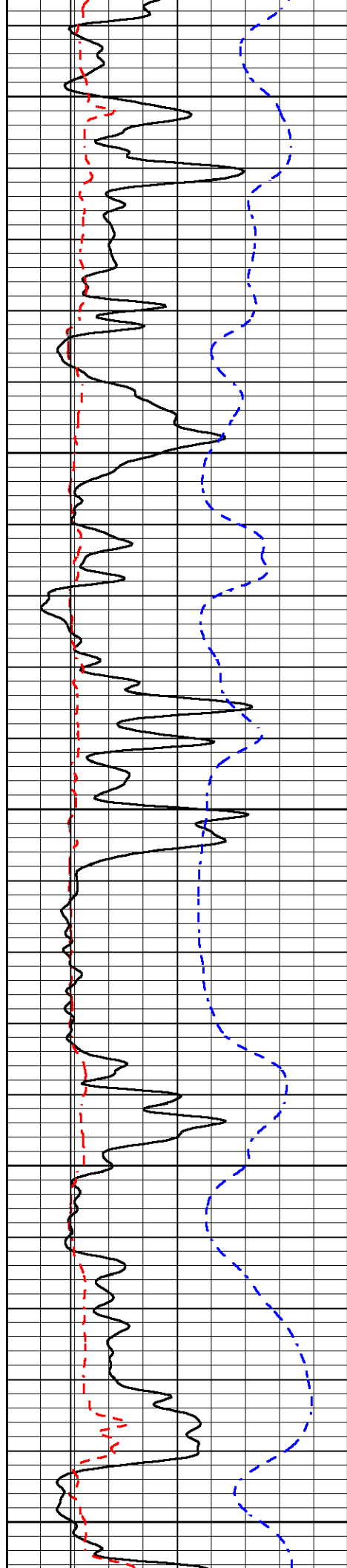
2400

2450

2500

2550





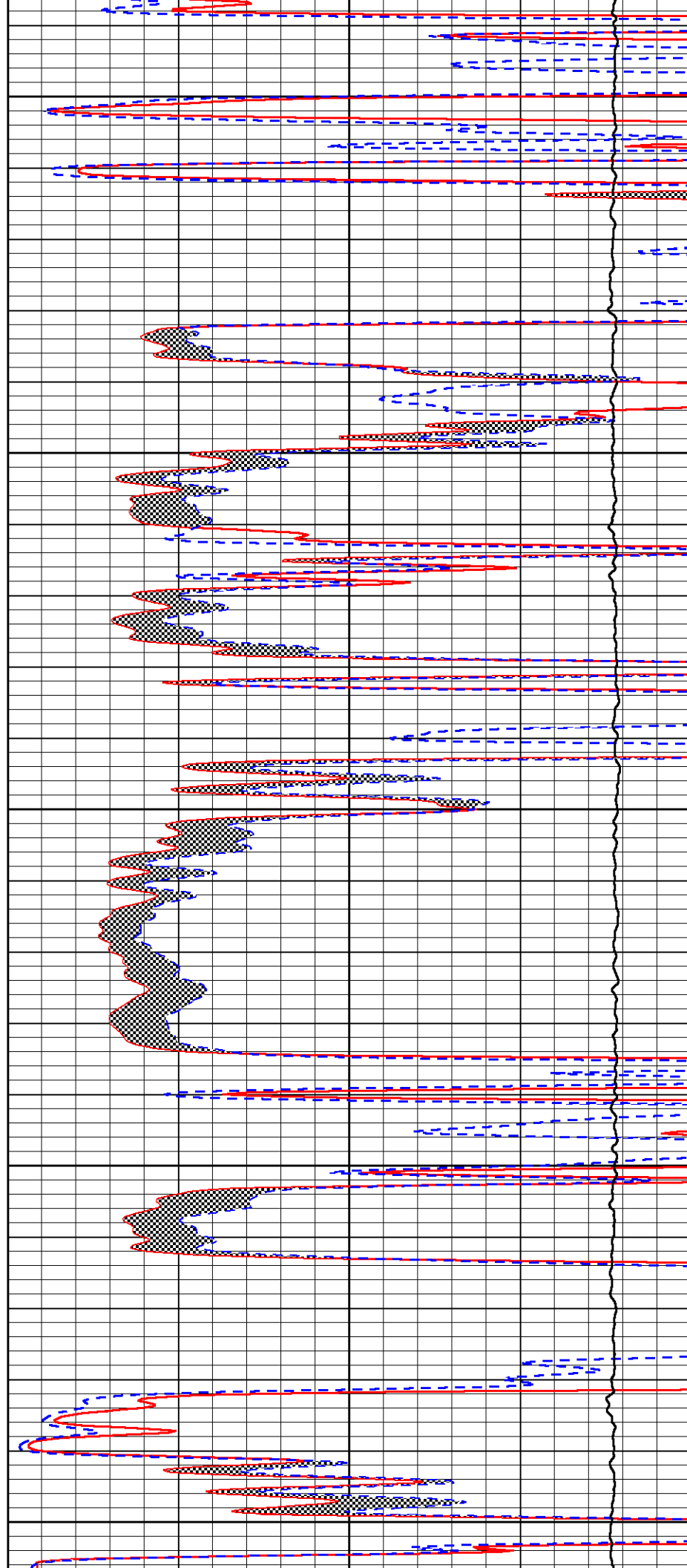
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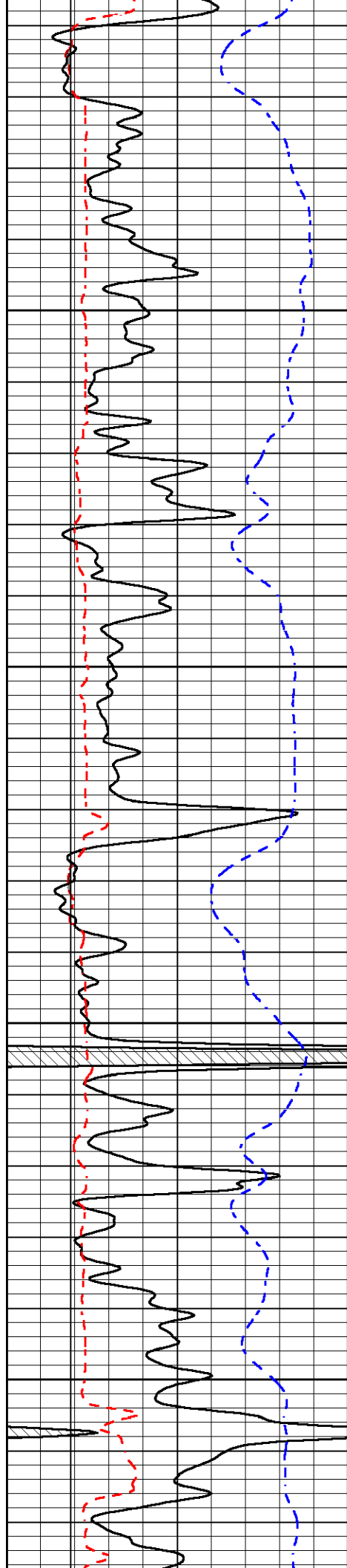
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2700

2750

2800



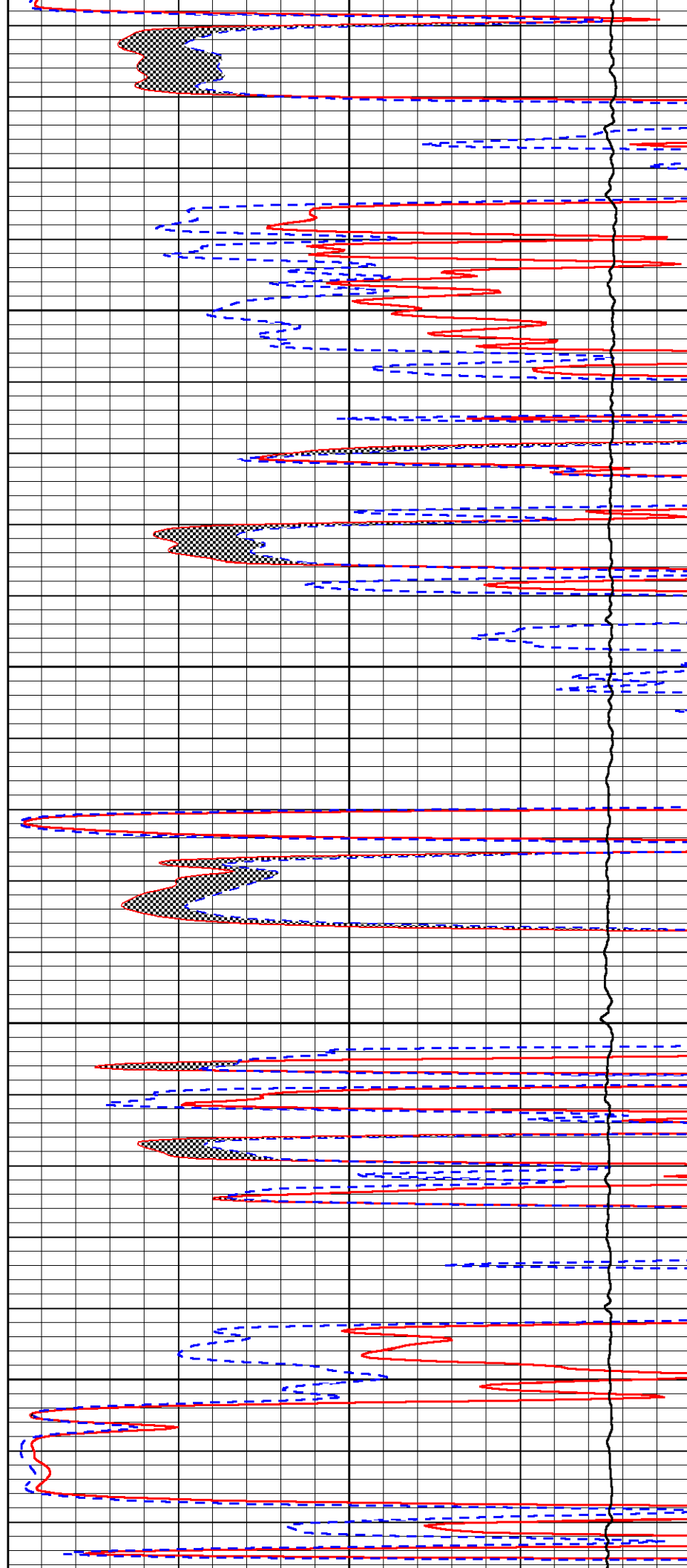


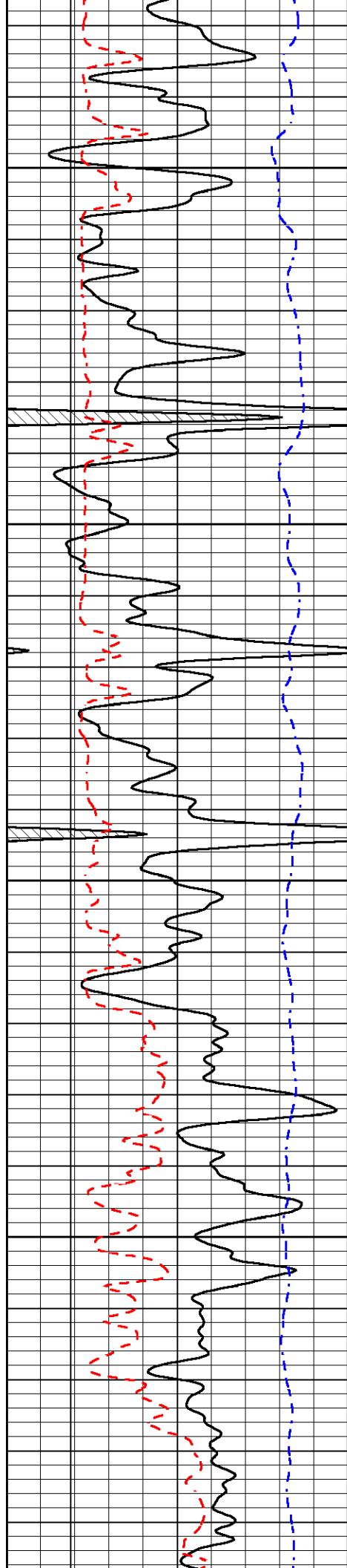
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2900

2950

3000



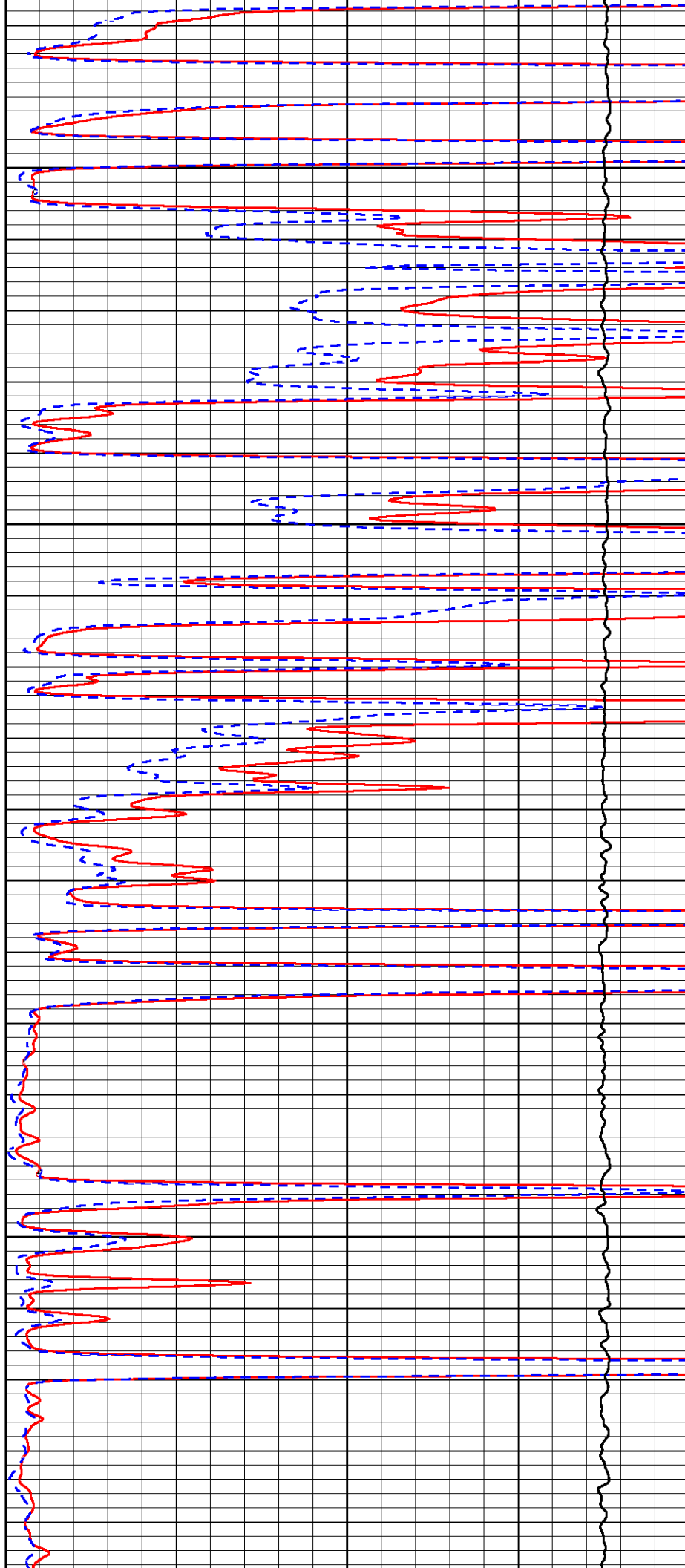


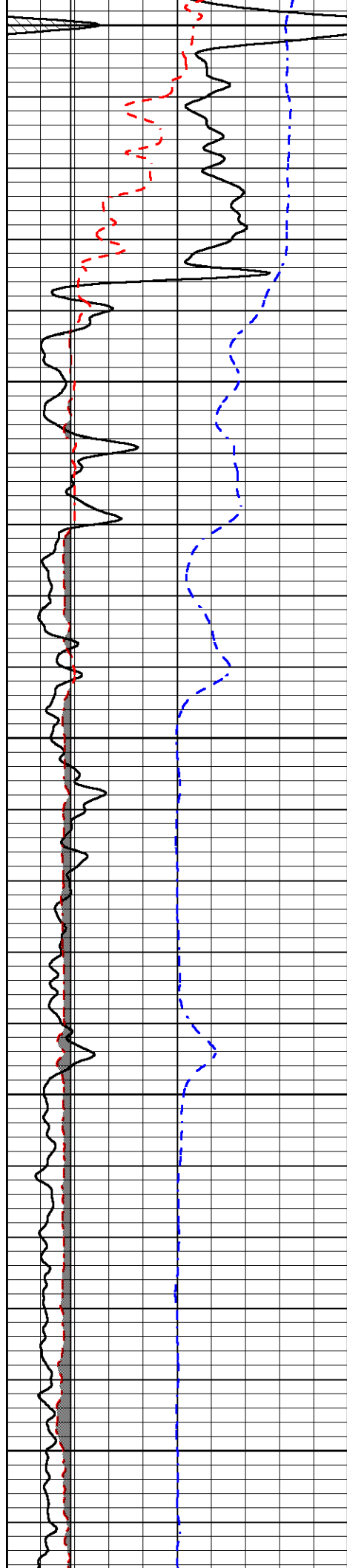
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3100

3150

3200





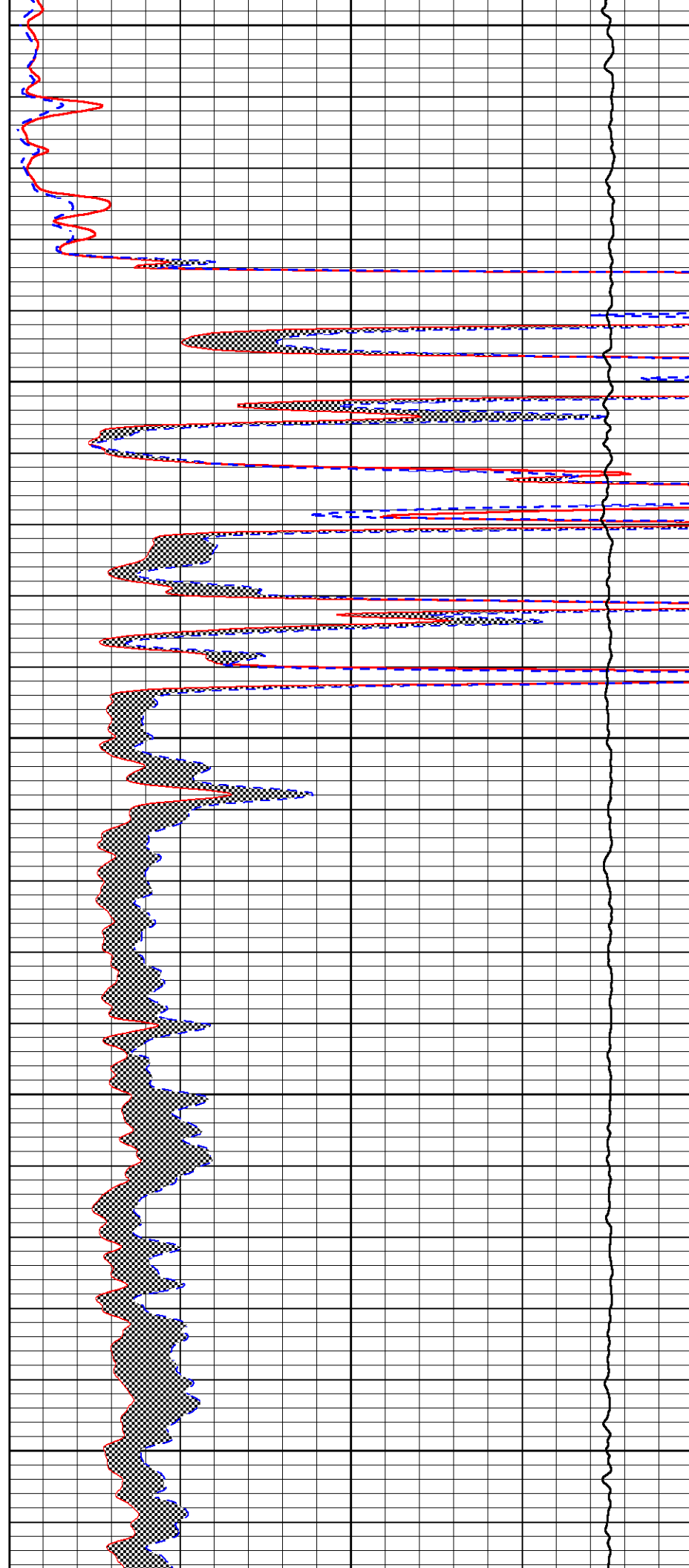
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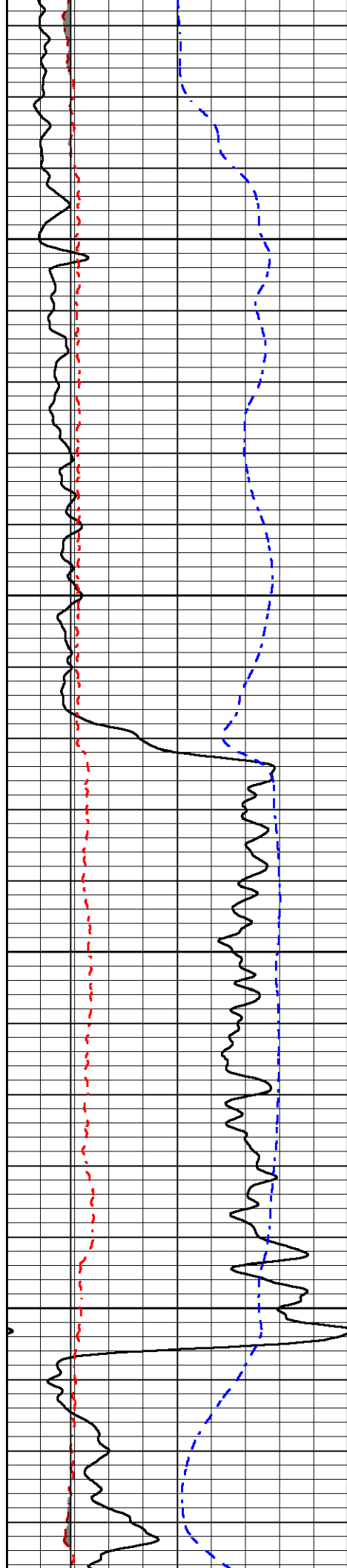
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3350

3400

3450



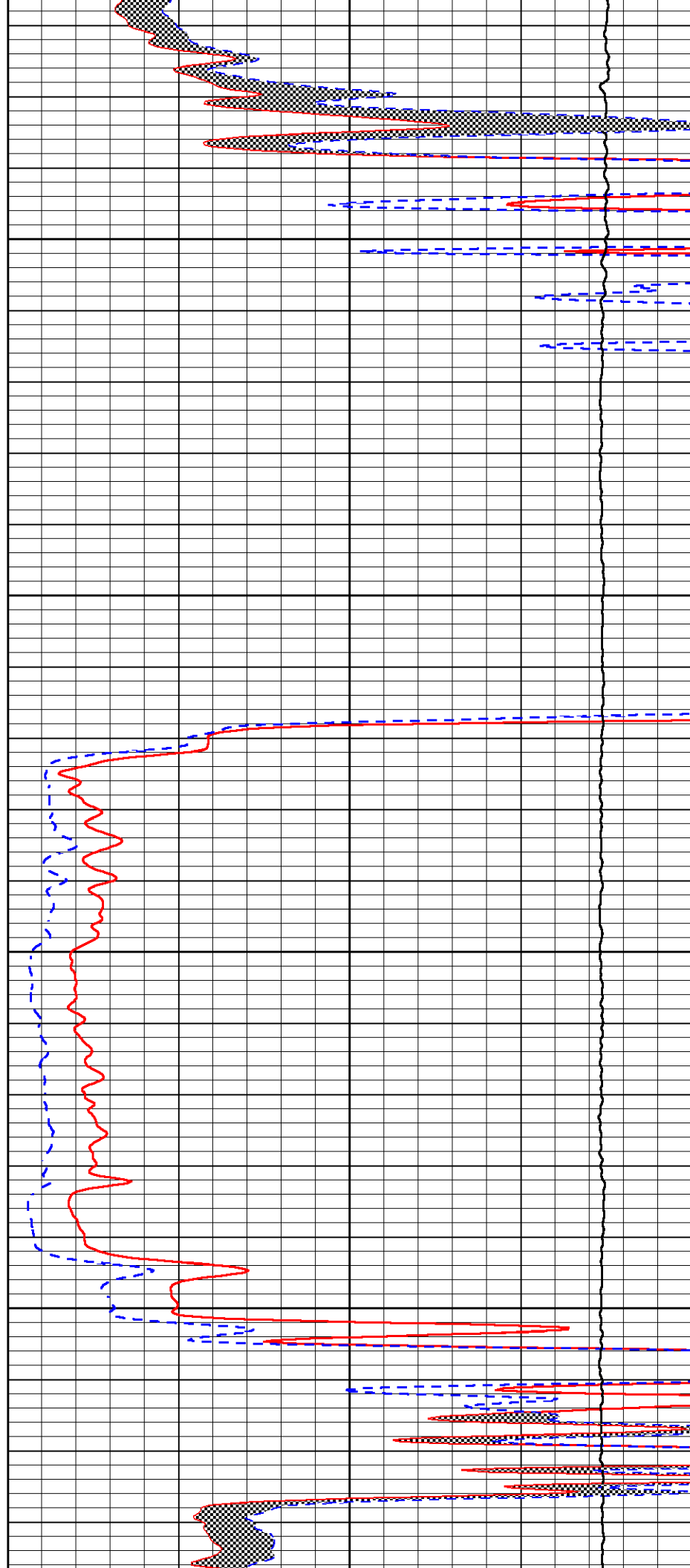


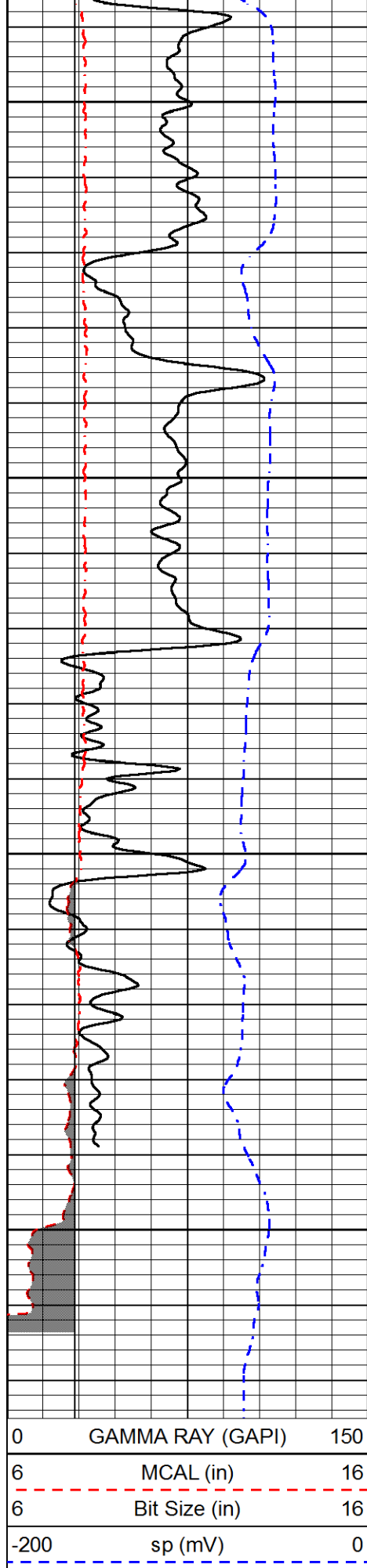
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3550

3600

3650



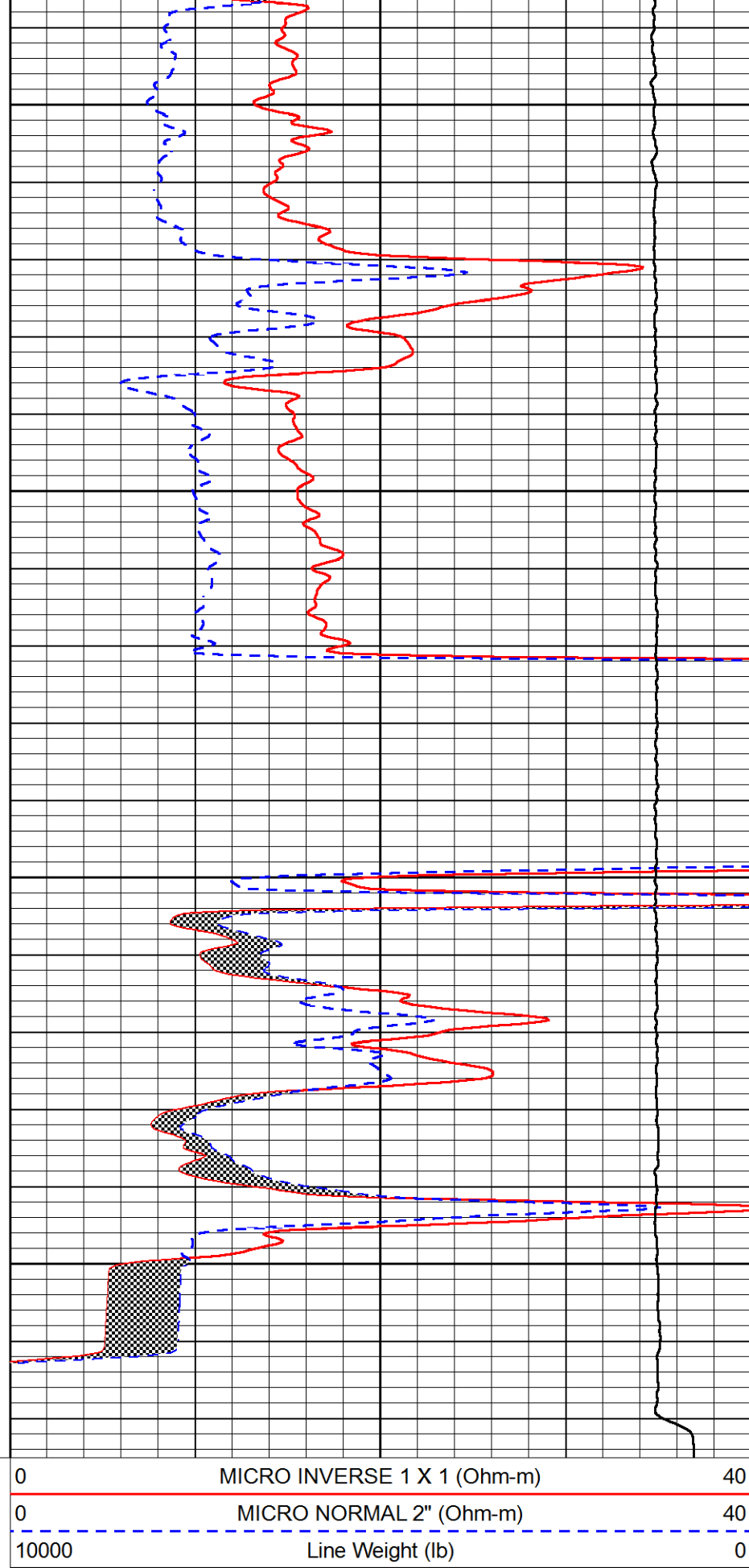


3700

3750

3800

3850





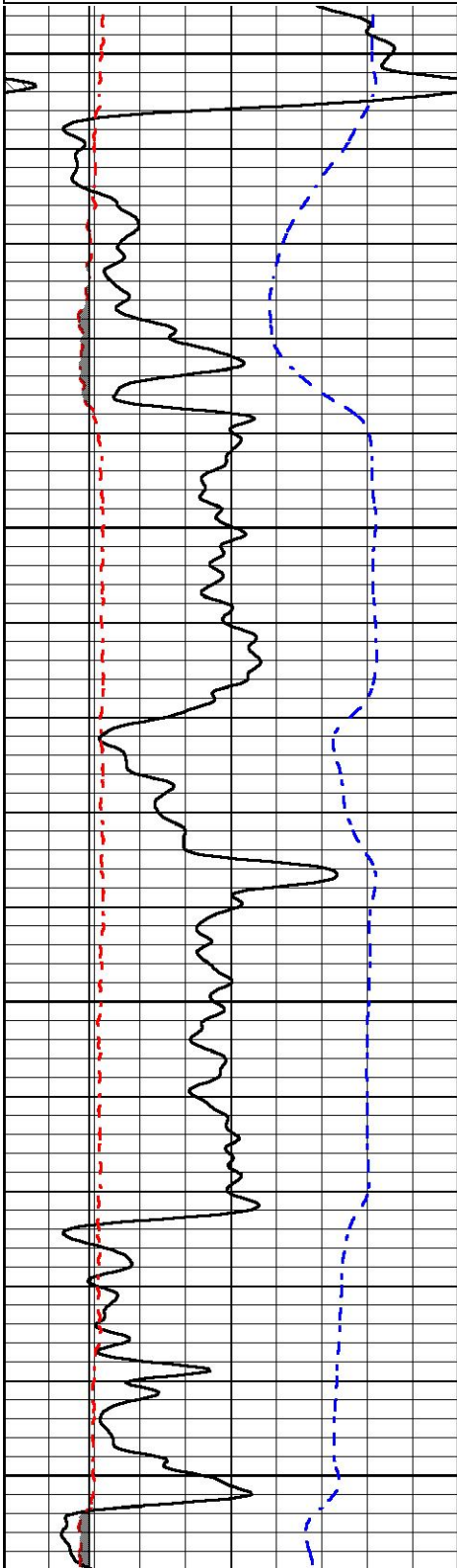
MIDWEST WIRELINE

REPEAT SECTION

Database File ressler_teten b 15.db
Dataset Pathname STKML/pass2.1
Presentation Format _micro
Dataset Creation Mon Oct 12 08:00:27 2020
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-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

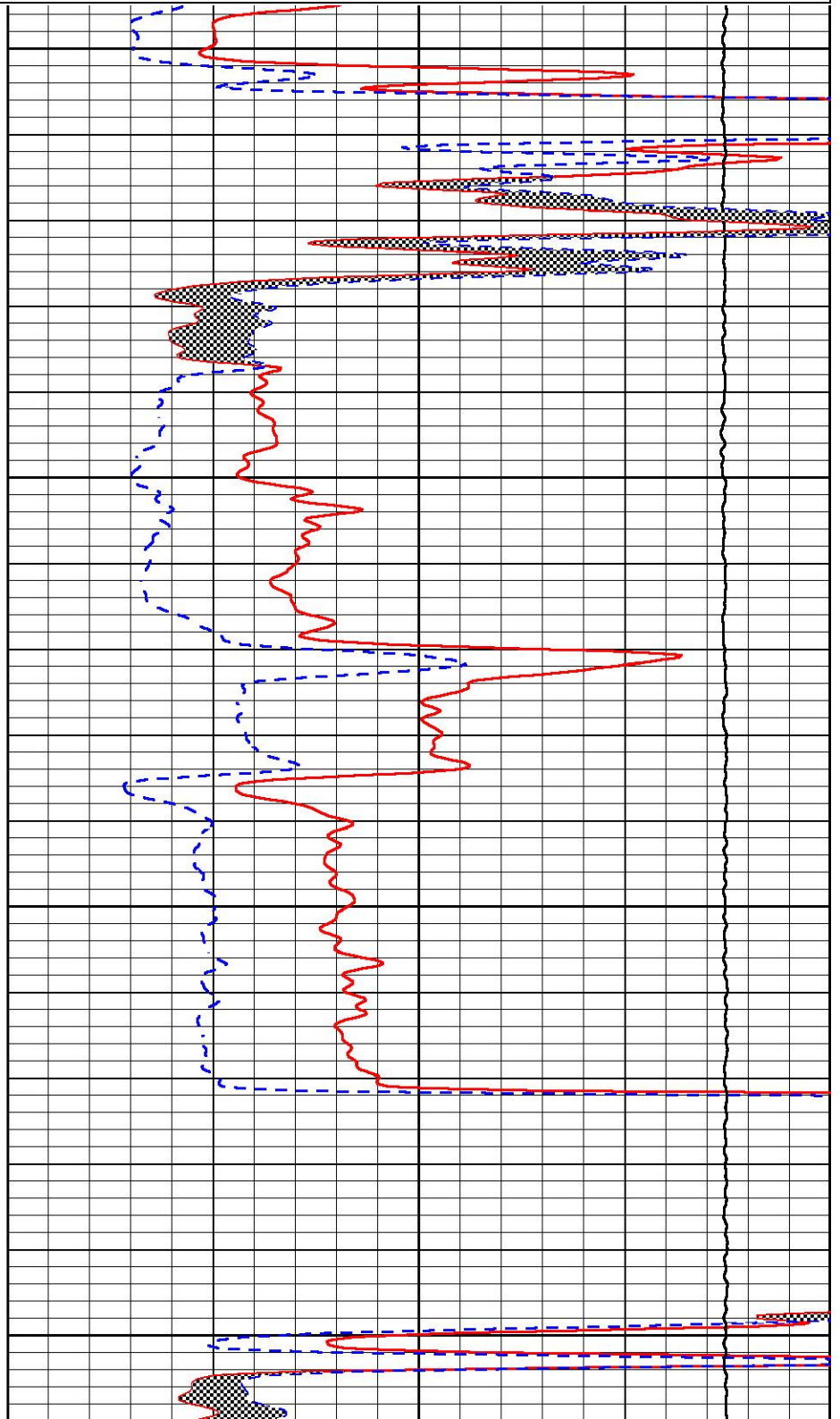


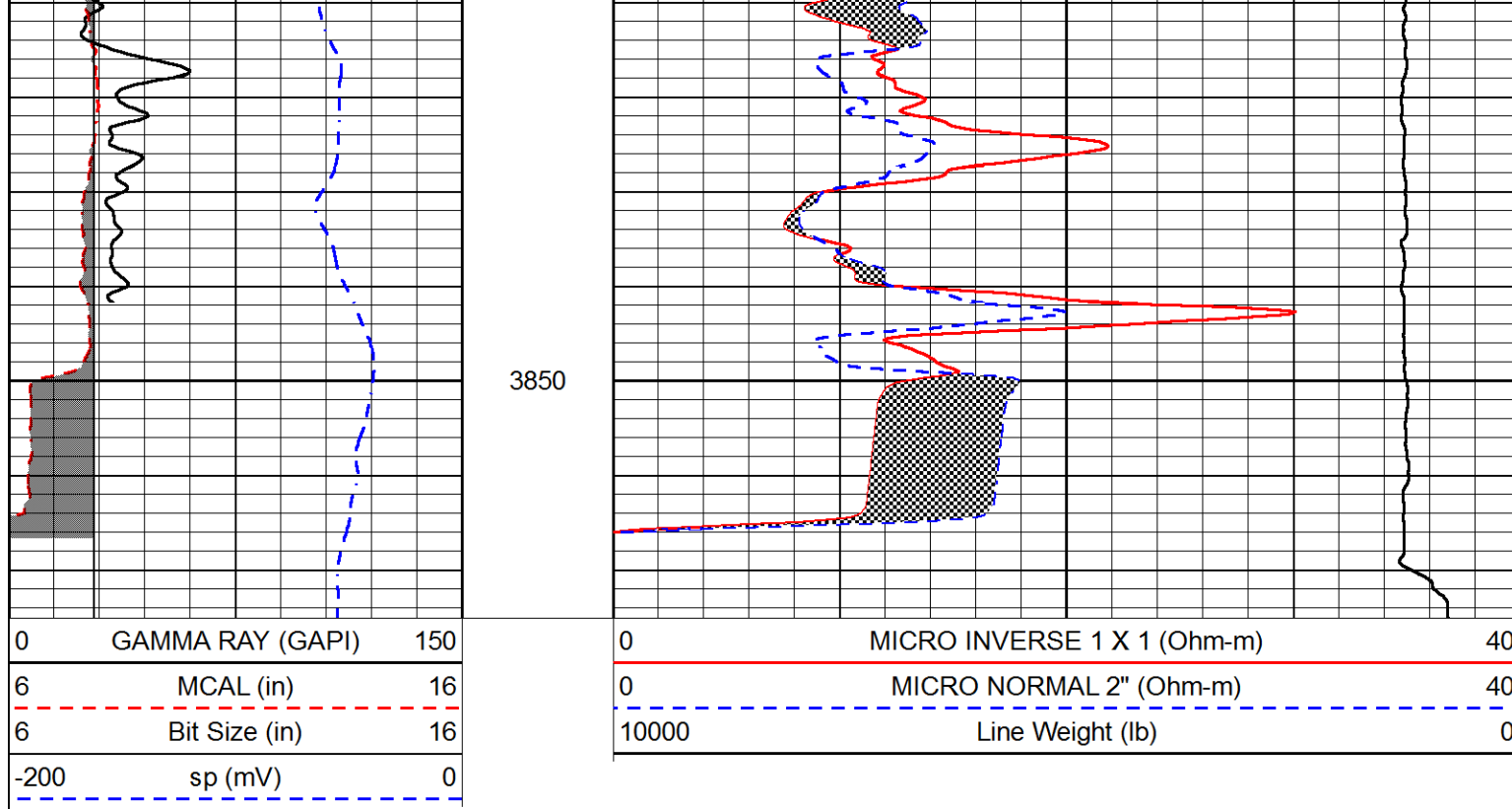
3650

3700

3750

3800





Calibration Report

Database File: ressler_teten b 15.db
 Dataset Pathname: STKML/pass3.1
 Dataset Creation: Mon Oct 12 08:01:07 2020

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
 Calibration Performed: Sun Jun 28 08:39:24 2020

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-30.000
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.310	-28.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Tue Sep 29 10:01:17 2020

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-1.4000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	150.3500	-146.7000

Compensated Density Calibration Report

Serial-Model: 817-947-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Sun Sep 20 22:09:47 2020

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.675	g/cc	1141.85	3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.529		
	Size		Reading		
Small Ring	4.50	in	1.02		
Large Ring	14.50	in	1.23		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: WED FEB 13 10:30:30 2019

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: 233-M&W
 Tool Model: M&W
 Calibration Performed: Sun Sep 20 22:10:24 2020

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps