

MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company American Warrior, Inc.	
Well	Wark #1-21
Field	
County	Thomas
State	Kansas
Company American Warrior, Inc.	
Well	Wark #1-21
Field	
County	Thomas
State	Kansas
Location:	API #: 15-193-21130-00-00
1218 FSL & 349 FEL	
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
SEC 21	TWP 6S RGE 31W
Elevation	2951
Other Services	CNL/CDL DIL/BHCS
K.B.	2962
D.F.	
G.L.	2951
Date	8/29/2024
Run Number	Two
Depth Driller	4563
Depth Logger	4562
Bottom Logged Interval	4561
Top Log Interval	3650
Casing Driller	8.625 @ 352
Casing Logger	353
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3000
Density / Viscosity	9.4 54
pH / Fluid Loss	10.7 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.50 @ 80
Rmt @ Meas. Temp	1.13 @ 80
Rmc @ Meas. Temp	2.03 @ 80
Source of Rmt / Rmc	CHARTS
Rm @ BHT	1.02 @ 118
Operating Rig Time	4 Hours
Max Rec. Temp. F	118
Equipment Number	110
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Marc Downing

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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.

Rexford,
North to Y Rd, 1 West, 1North, 1 West, 1 1/4 North,
West 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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Marc Downing
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	118	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	175	85		4562

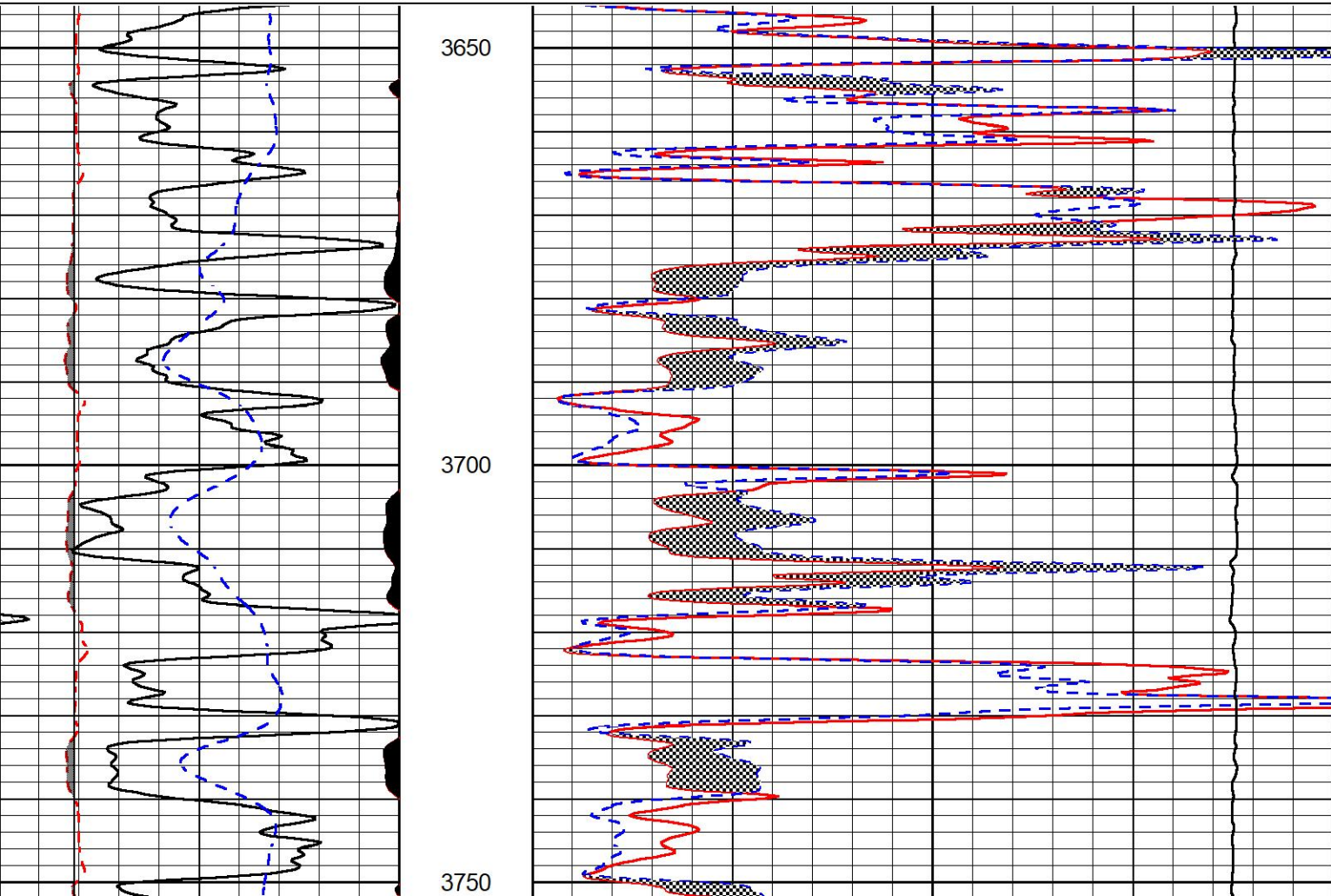


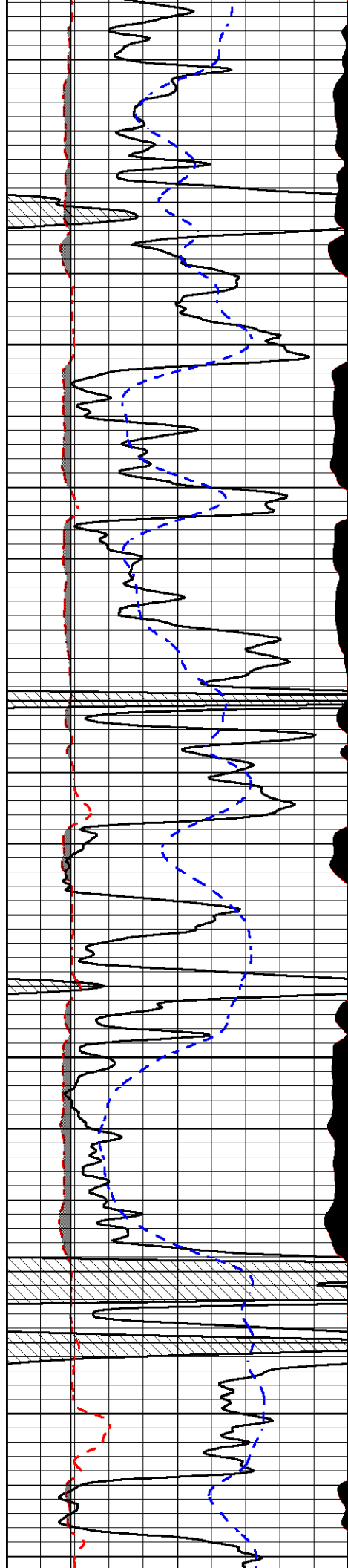
DETAIL SECTION

MAIN PASS

Database File amwar_wark 1-21.db
Dataset Pathname stack/pass3.1
Presentation Format _micro
Dataset Creation Thu Aug 29 22:33:31 2024
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Micro 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			



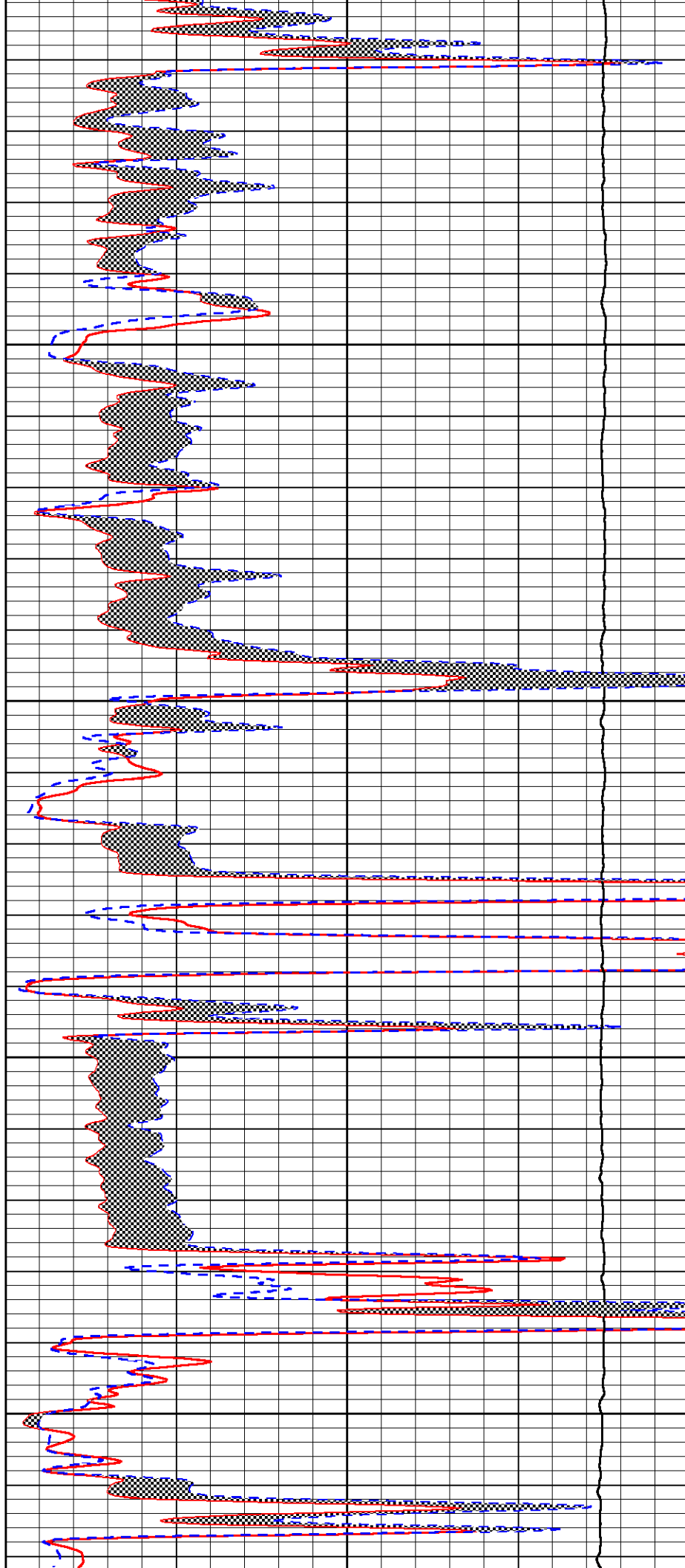


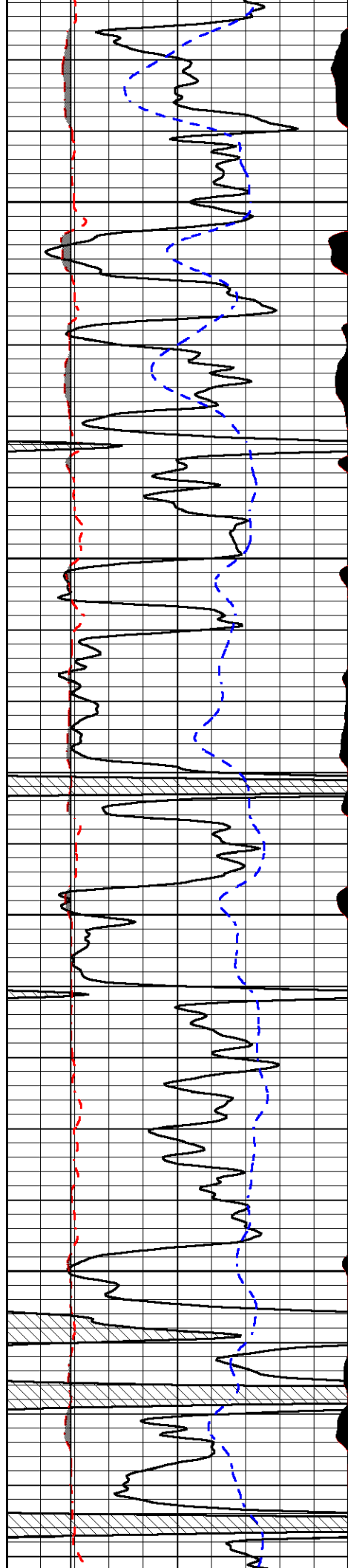
3800

3850

3900

3950



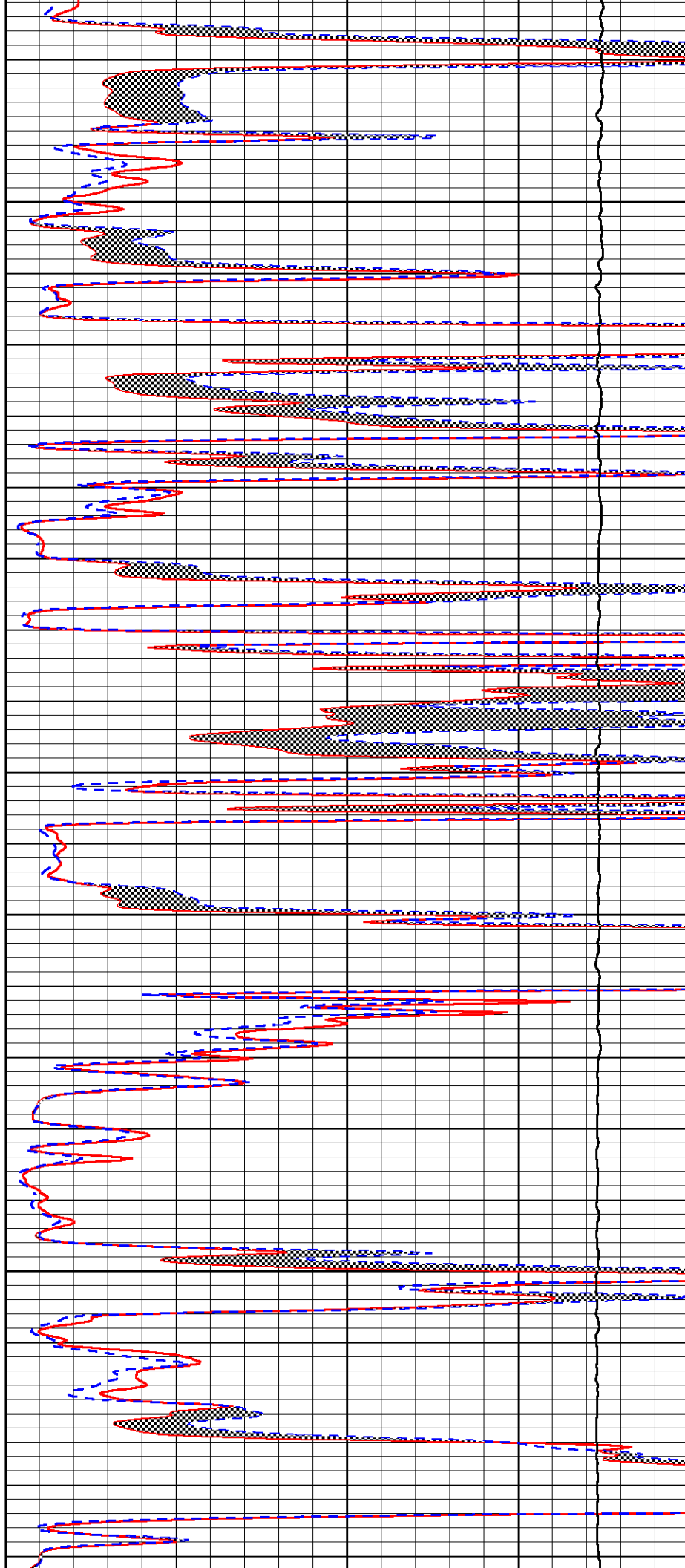


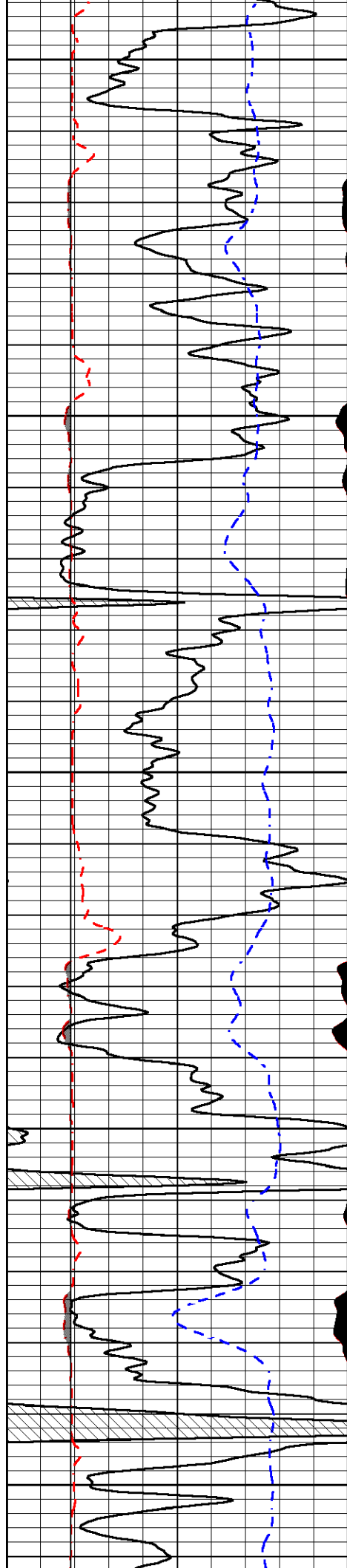
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4050

4100

4150





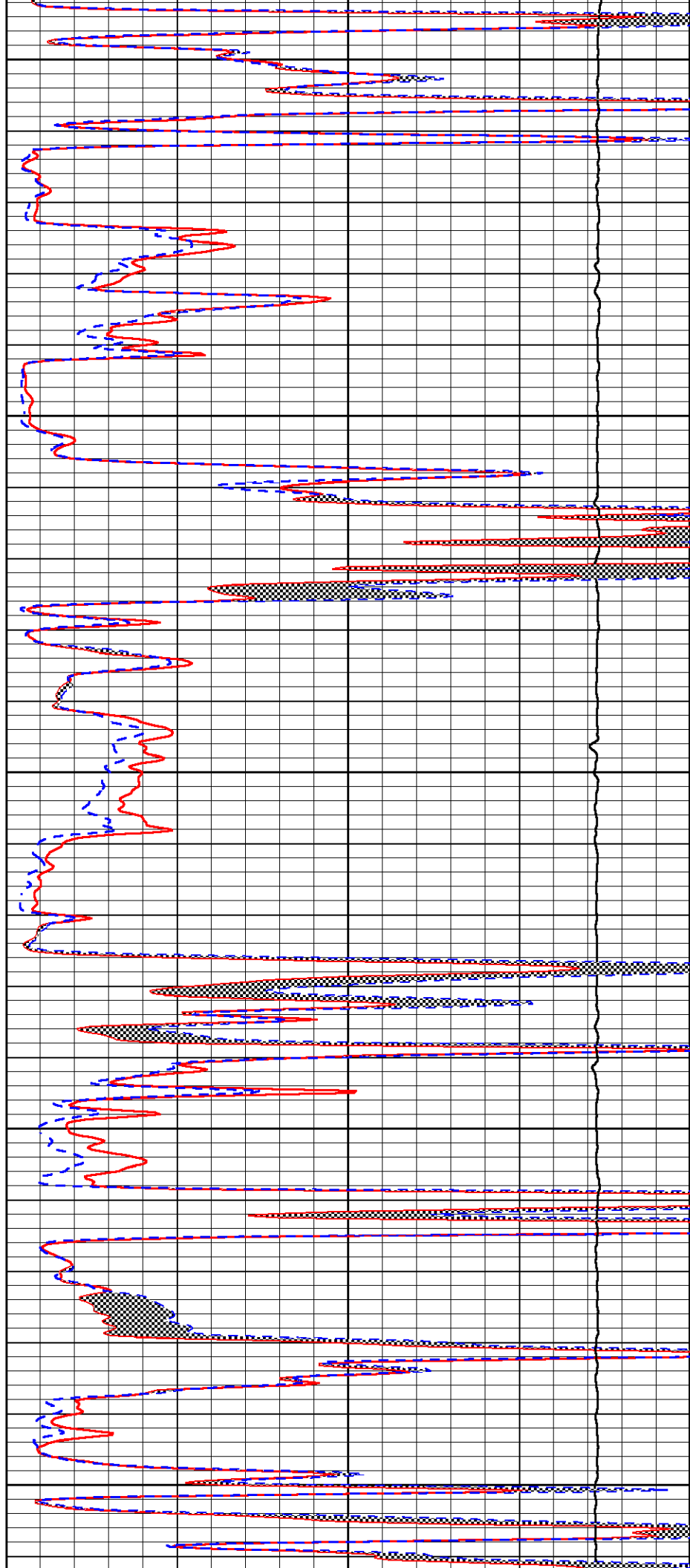
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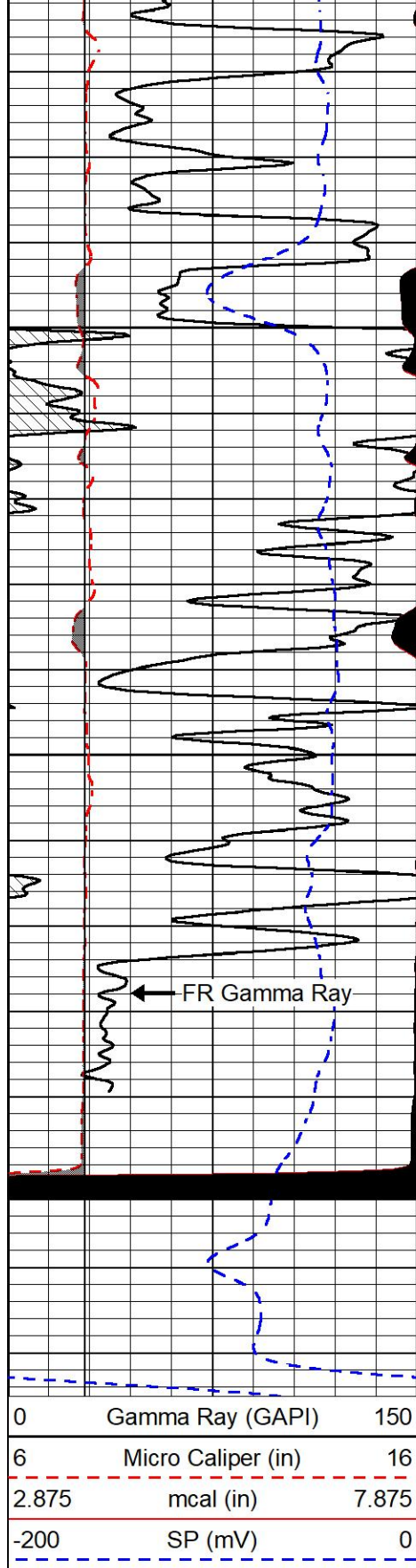
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4300

4350

4400

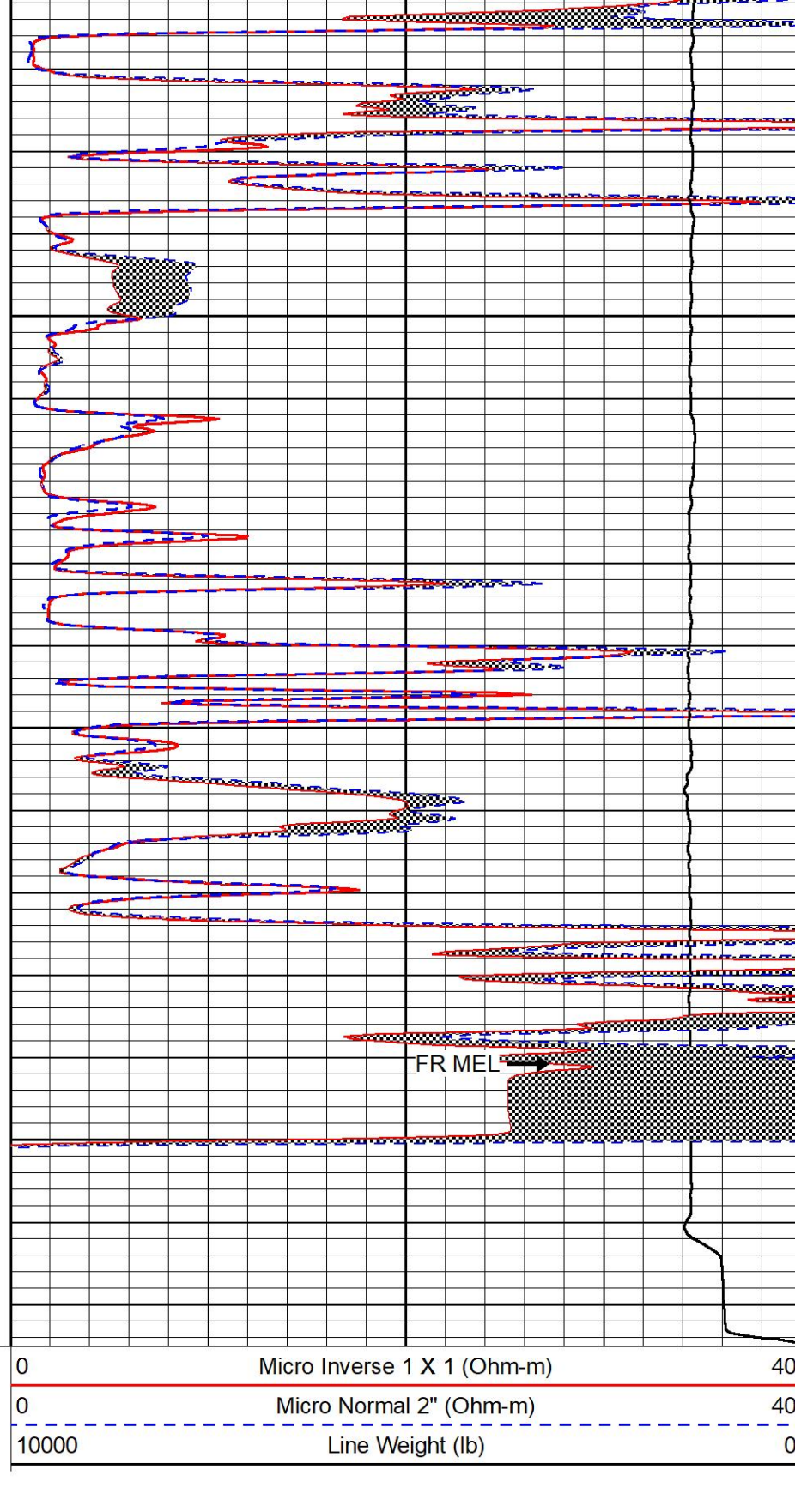




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4500

4550

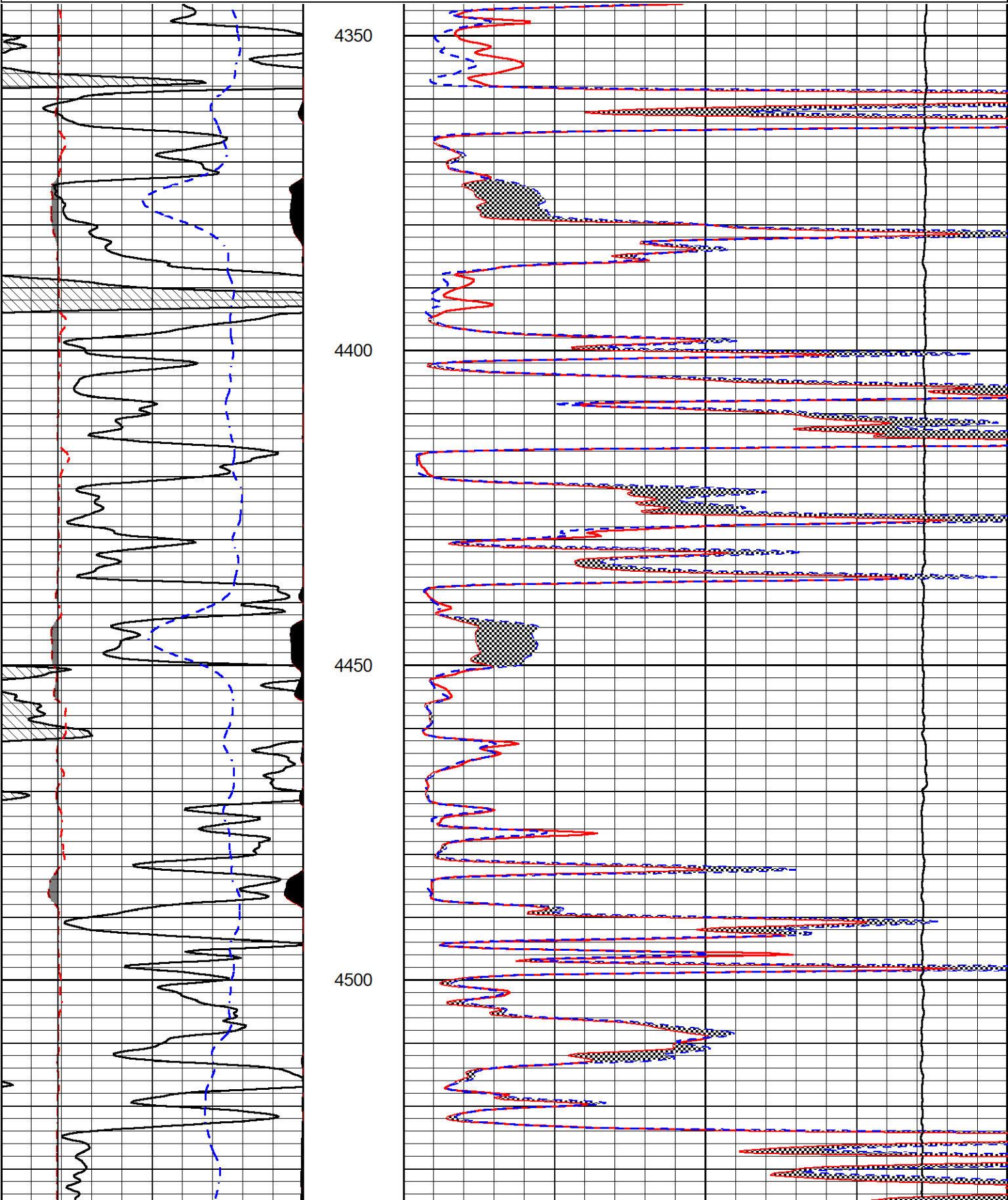


REPEAT SECTION

REPEAT PASS

Database File amwar_wark 1-21.db
 Dataset Pathname stack/pass2.1
 Presentation Format micro

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Micro Caliper (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcal (in)	7.875	10000	Line Weight (lb)	0
-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

```
Database File      amwar_wark 1-21.db
Dataset Pathname  stack/pass3.1
Dataset Creation   Thu Aug 29 22:33:31 2024
```

Serial-Model: 508A-M&W
Surface Cal Performed: Thu Aug 29 21:13:42 2024

		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.200	428.150	0.000	255.800	mmho/m	0.485	-50.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.410	-42.000

Serial-Model: 303-03-M&W
Source #: 21170B
Master Calibration Performed: Fri Mar 22 13:26:25 2024

	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	5466.68	7555.42	cps
Aluminum	2.580	g/cc	1173.67	5050.86	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.566		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.07		

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		
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	American Warrior, Inc.
	Well	Wark #1-21
	Field	
	County	Thomas
	State	Kansas