



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company American Warrior, Inc.
 Well Mann #1-28
 Field Unnamed
 County Thomas
 State Kansas

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 Well Mann #1-28
 Field Unnamed
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 State Kansas

Location: API #: 15-193-21127-00-00
 SW NE NW SW
 2020 FSL & 842 FWL
 SEC 28 TWP 6S RGE 31W
 Elevation 2955
 Other Services
 CNL/CDL
 DIL/BHCS
 Elevation
 K.B. 2963
 D.F.
 G.L. 2955

Date	5/14/2024	
Run Number	Two	
Depth Driller	4576	
Depth Logger	4576	
Bottom Logged Interval	4575	
Top Log Interval	3650	
Casing Driller	8.625 @ 354	
Casing Logger	349	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	2000	
Density / Viscosity	9.3	55
pH / Fluid Loss	11.30	7.2
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	0.95 @ 72	
Rmt @ Meas. Temp	0.71 @ 72	
Rmc @ Meas. Temp	1.28 @ 72	
Source of Rmf / Rmc	CHARTS	
Rm @ BHT	0.56 @ 122	
Operating Rig Time	4 Hours	
Max Rec. Temp. F	122	
Equipment Number	P-108	
Location	HAYS	
Recorded By	T. Martin	
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, KS, SE corner, 1 N to Y Rd,
 1 W, 1 N, 2 W, N into

Log Measured From: Kelly Bushing 8 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: T. Martin	Operator:	Primary Witness: Marc Downing	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Operator	Offset (ft)	Substrate	Description	Length (ft)	O.D. (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	25.50 25.50 25.50		ML-GO (G002)	5.00	3.50	100.00
			CENT-PENGO (4-PENGO)	4.25	3.00	70.00
WVF4 WVF1	12.25 12.25		SLT-PENGO (601) 3 1/2 BHC Sonic	16.00	3.50	300.00
WVF3 WVF2	10.25 10.25					
			CENT-PENGO (3-PENGO)	4.25	3.00	70.00

Dataset: amwar_mann #1-28.db: field/well/SonMel/pass3.1
 Total length: 29.50 ft
 Total weight: 540.00 lb
 O.D.: 3.50 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\amwar_mann #1-28.db
 Dataset field/well/Stack/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 122	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m -3.5	SPSHIFT mV 635	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 4576		

Variable Description

BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 FLUIDDEN : Fluid Density
 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



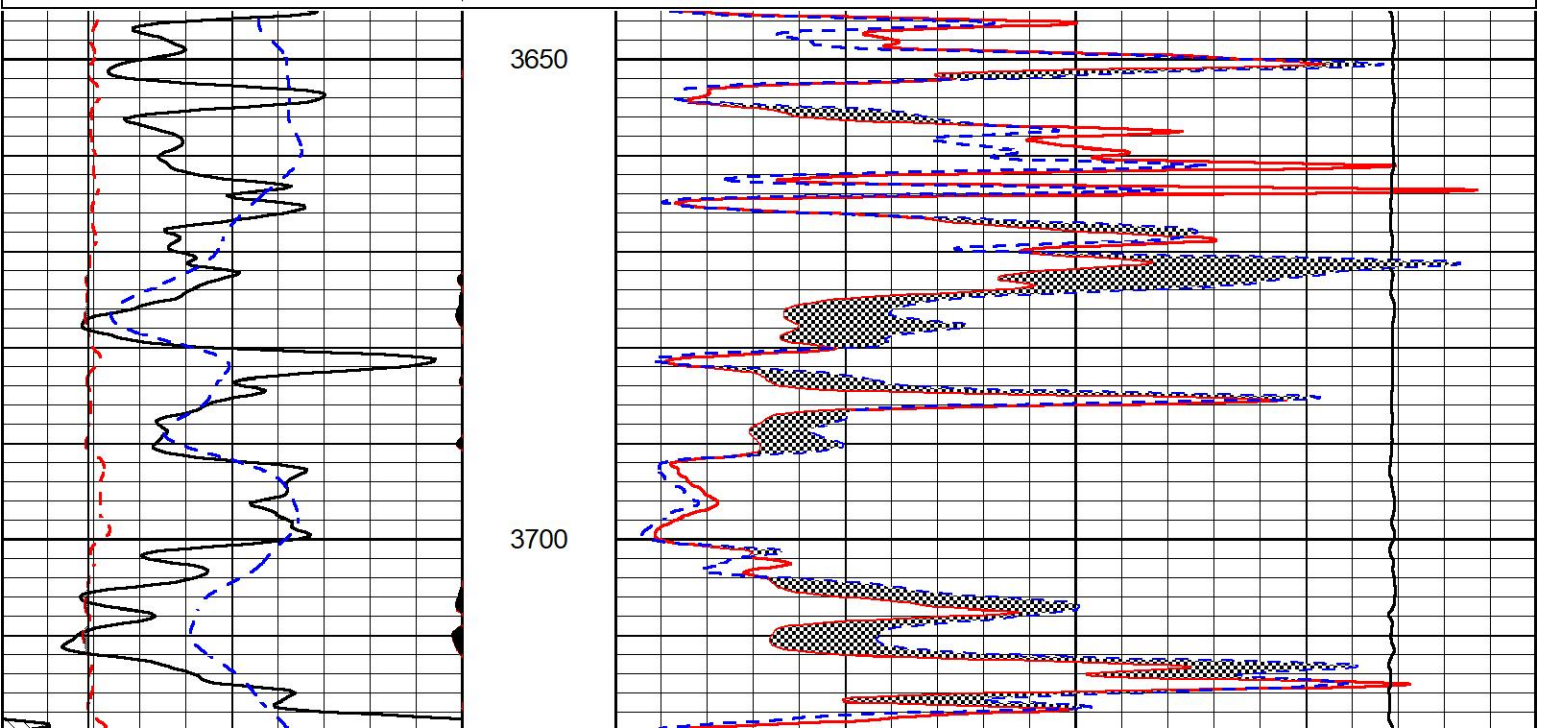
DETAIL SECTION

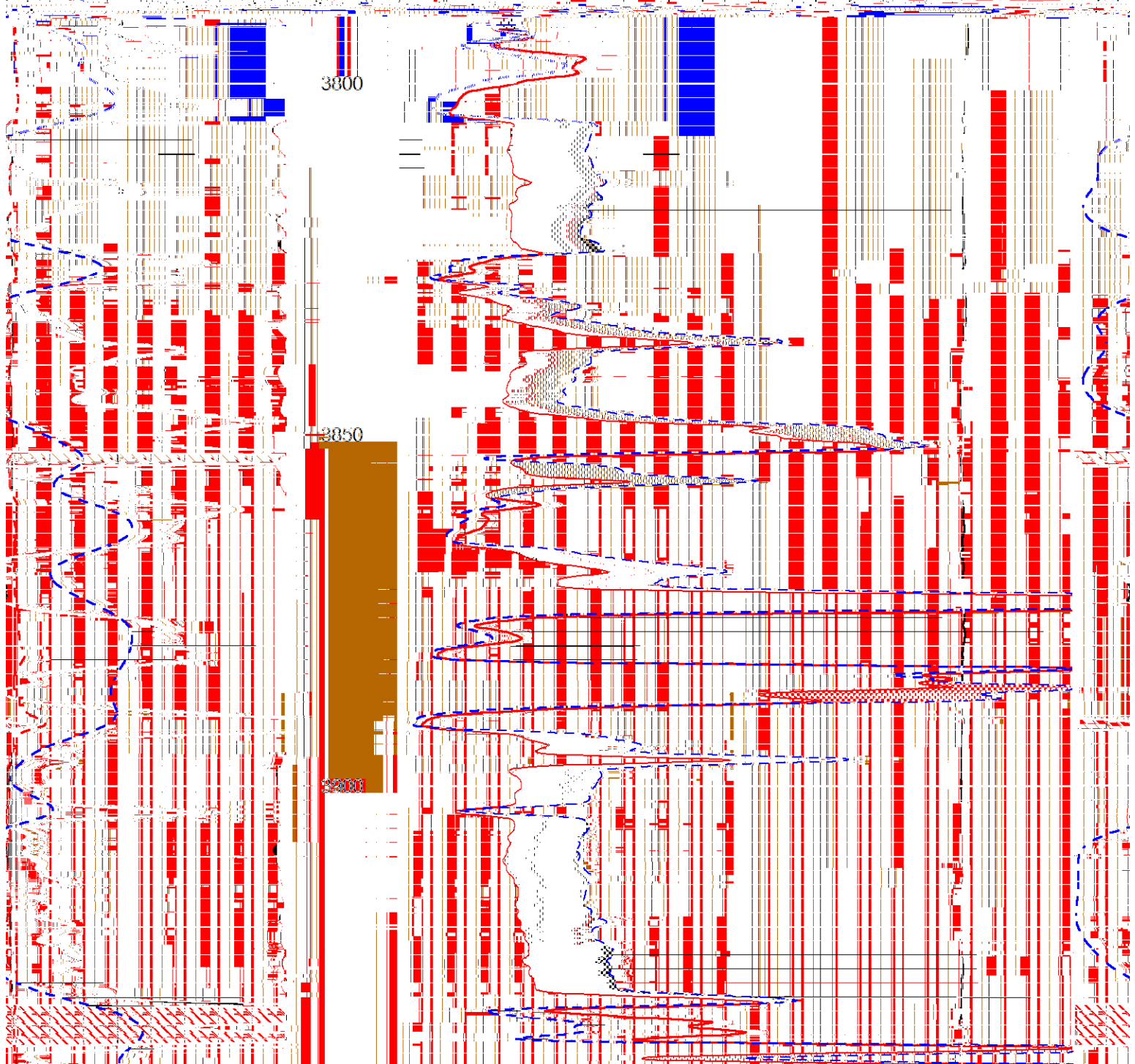
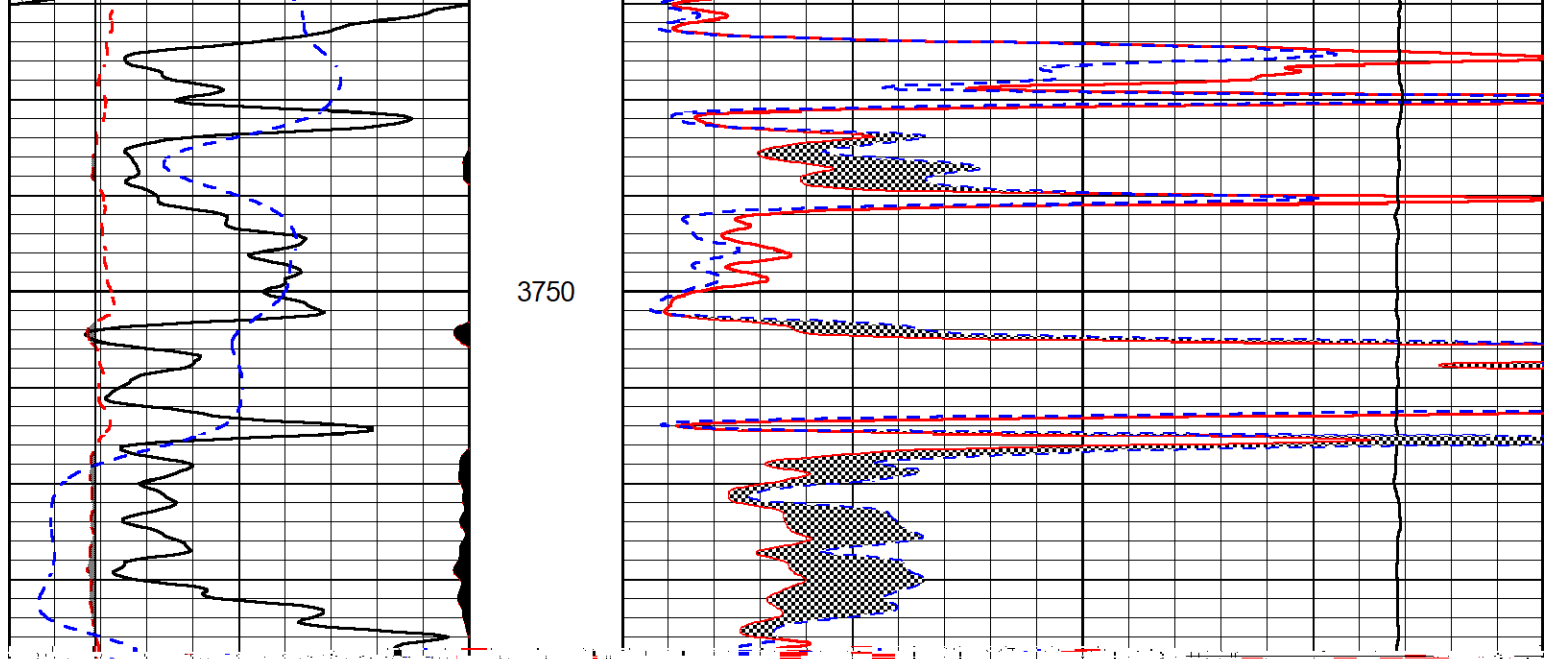
MAIN PASS

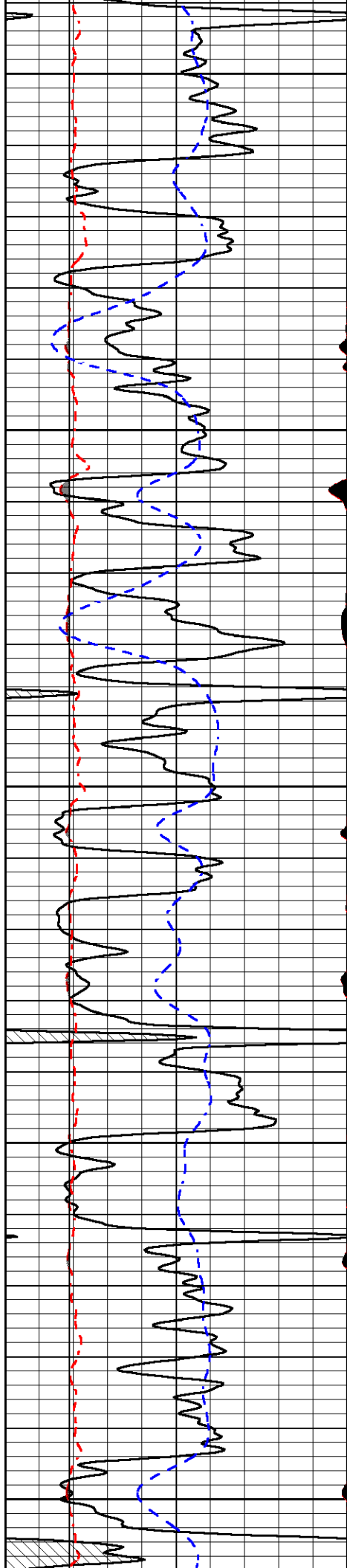
Database File amwar_mann #1-28.db
 Dataset Pathname Stack/pass3.1
 Presentation Format _micro
 Dataset Creation Tue May 14 16:58:16 2024
 Charted by Depth in Feet scaled 1:240

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







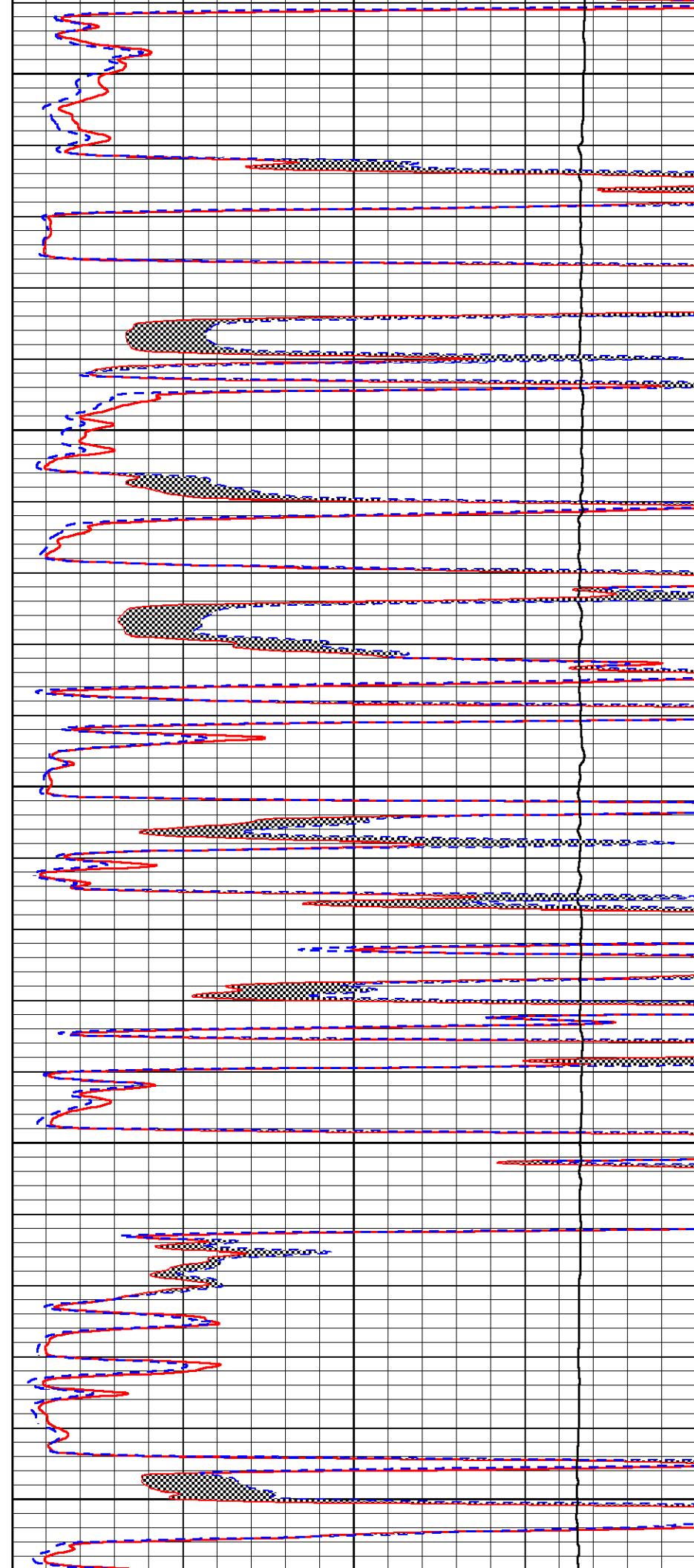
3950

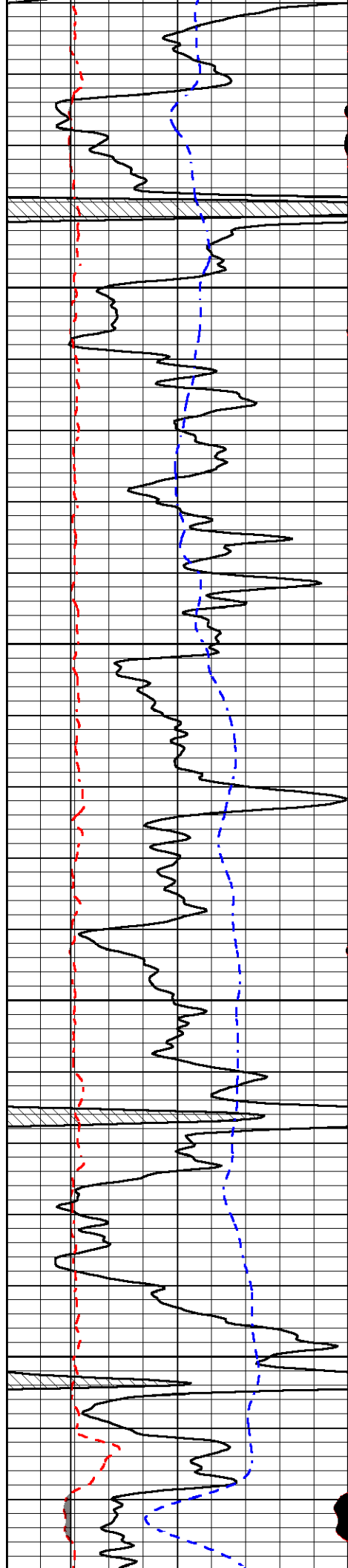
4000

4050

4100

4150



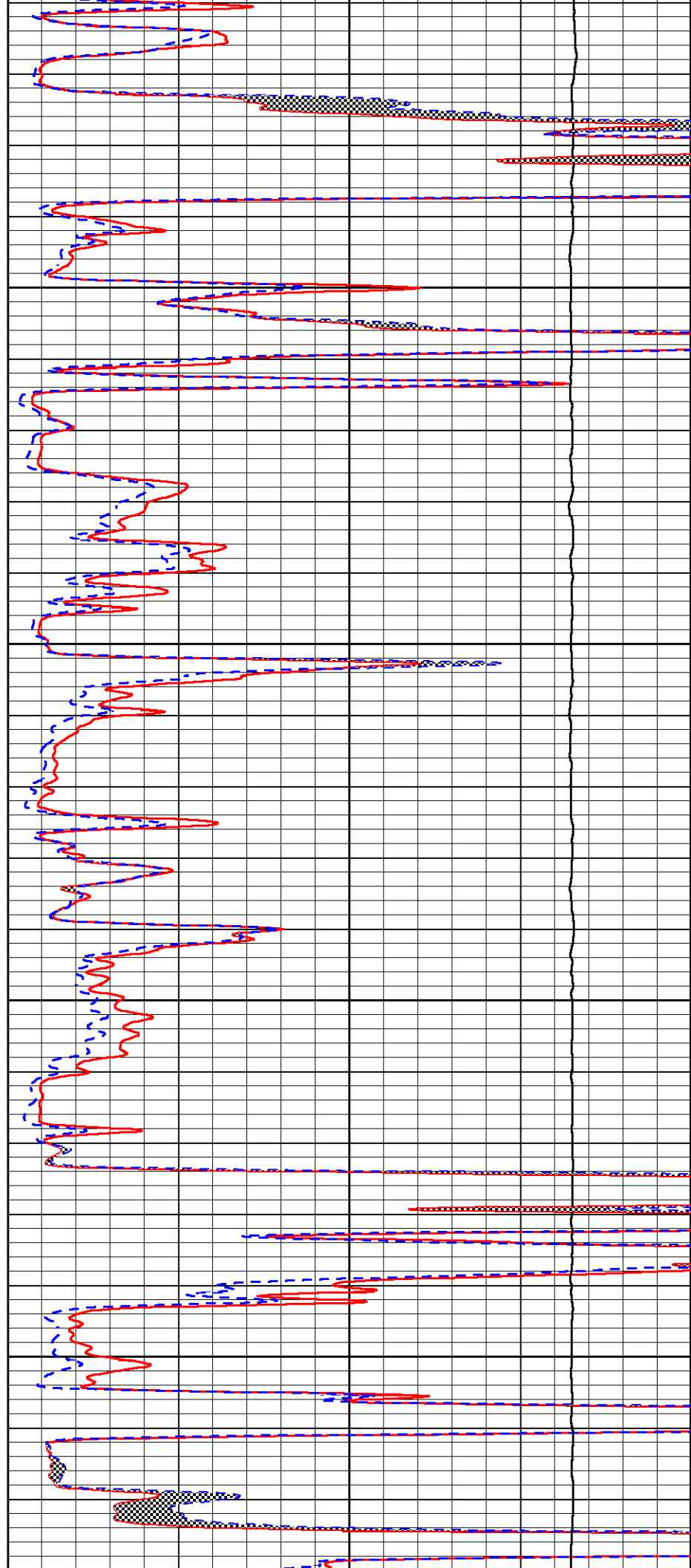


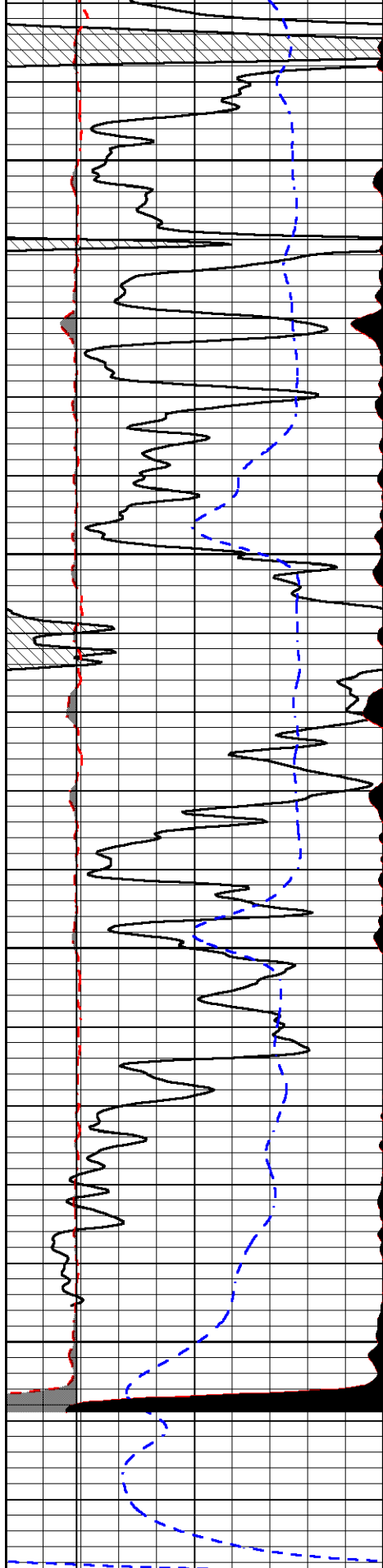
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4250

4300

4350





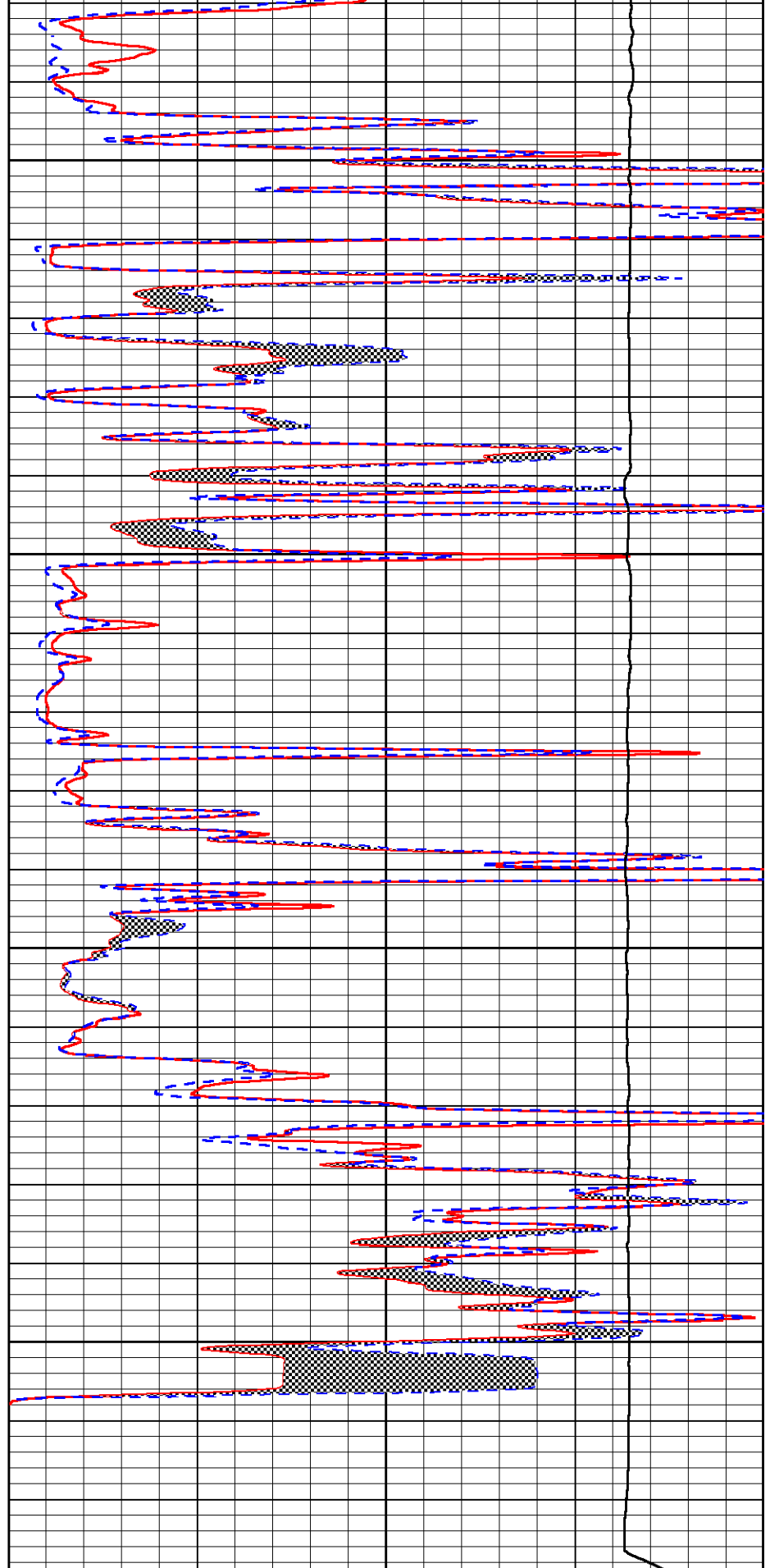
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6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

4400

4450

4500

4550



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



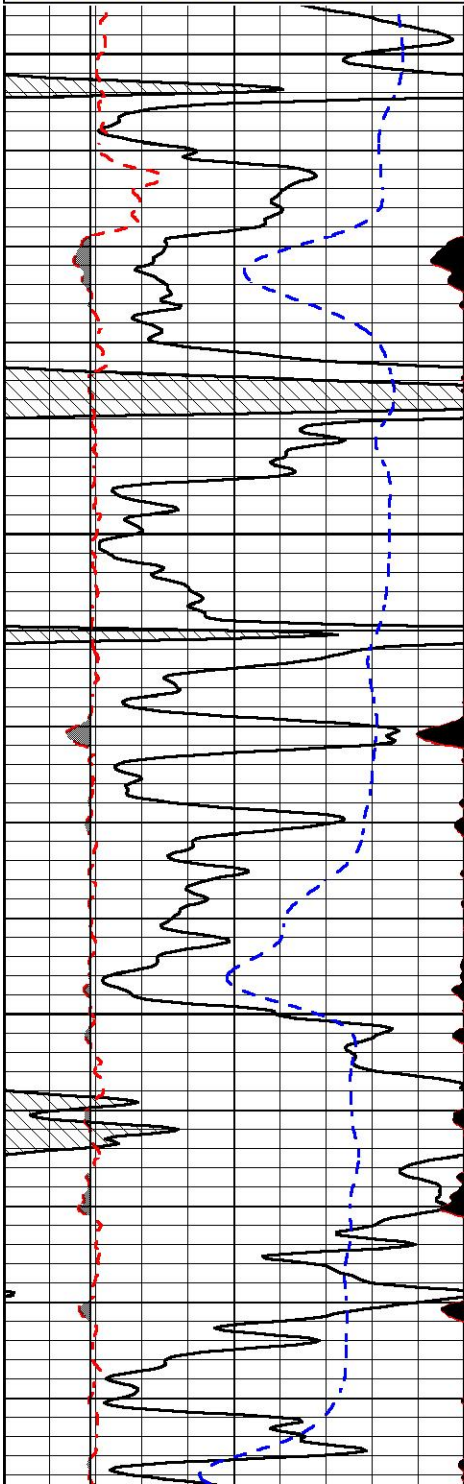
REPEAT SECTION

REPEAT PASS

Database File amwar_mann #1-28.db
 Dataset Pathname Stack/pass2.1
 Presentation Format _micro
 Dataset Creation Tue May 14 16:39:23 2024
 Charted by Depth in Feet scaled 1:240

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

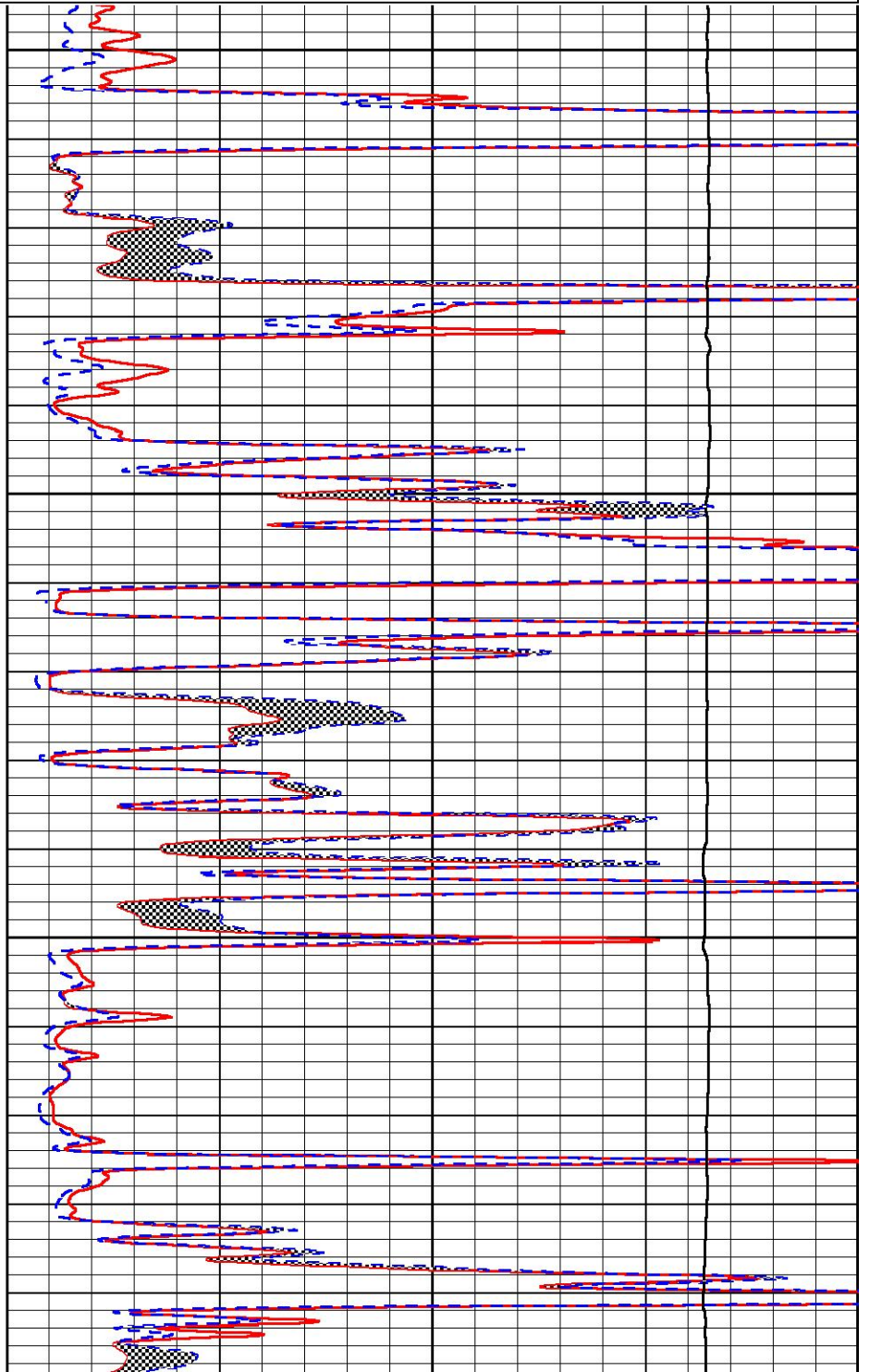
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

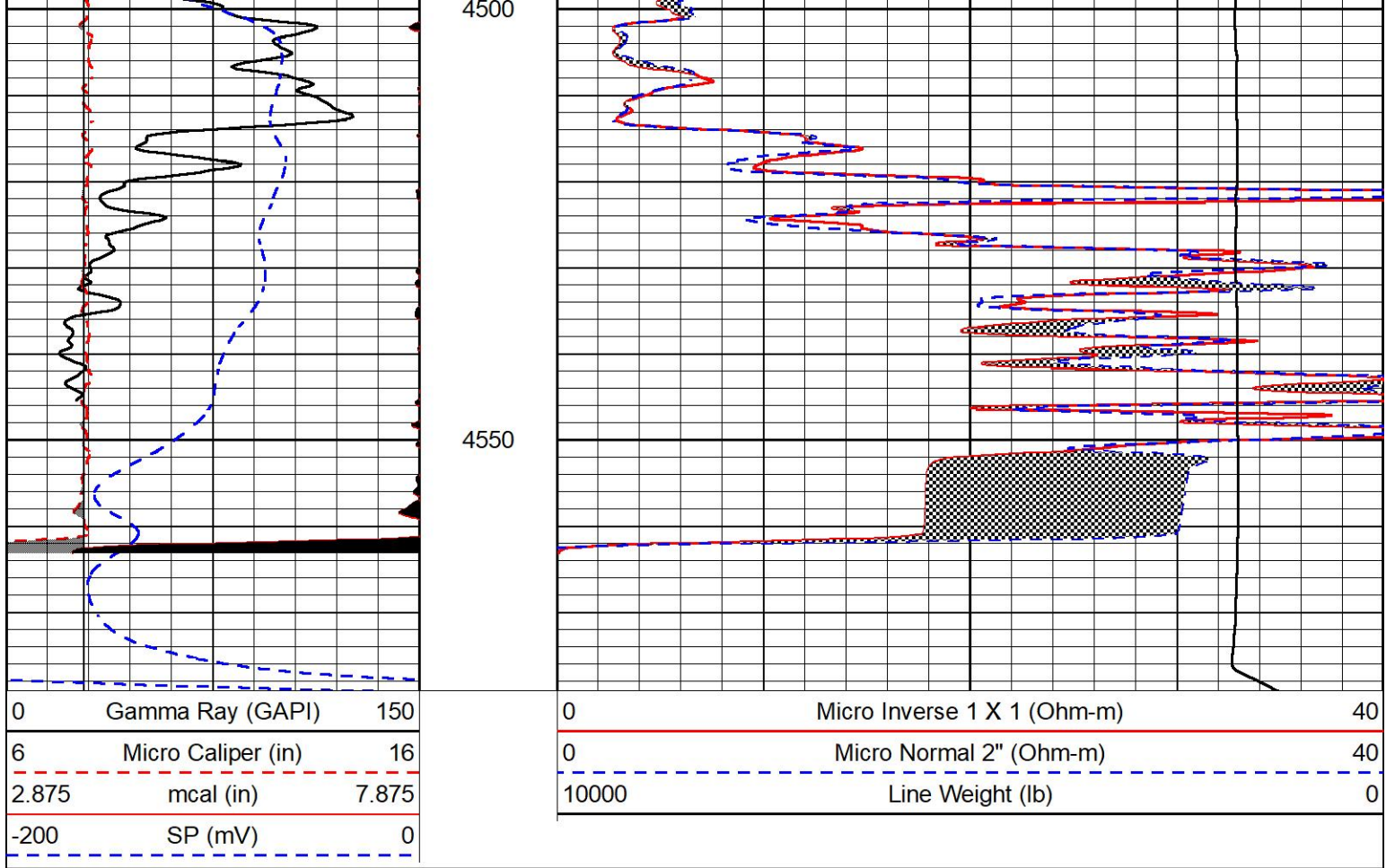


4350

4400

4450





Calibration Report

Database File amwar_mann #1-28.db
 Dataset Pathname SonMel/pass3.8
 Dataset Creation Tue May 14 18:18:32 2024

Microlog Calibration Report

Serial-Model: G002-GO
 Performed: Tue Jun 27 13:30:14 2023

	Readings		V	References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	-0.3936	0.6257	V	0.0000	10.0000	Ohm-m	17.0000	-0.9000
Inverse	0.0179	0.4655	V	0.0000	10.0000	Ohm-m	11.0000	0.1000
Caliper	0.0131	0.1522	V	6.0000	18.0000	in	258.0000	3.6750



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 County Thomas
 State Kansas