



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company American Warrior, Inc.		Company American Warrior, Inc.	
Well	O'Brate-Beach #1-26	Well	O'Brate-Beach #1-26
Field	Wildcat	Field	Wildcat
County	Finney	County	Finney
State	Kansas	State	Kansas
Location: API #: 15-055-22555-00-00		Other Services	
1914 FNL & 351 FWL		CNL/CDL DIL	
Permanent Datum	Ground Level	Elevation	2801
Log Measured From	Kelly Bushing	K.B.	2814
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2801
SEC 26 TWP 25S RGE 31W			
Date	4/20/2022		
Run Number	One		
Depth Driller	5026		
Depth Logger	5030		
Bottom Logged Interval	5029		
Top Log Interval	3800		
Casing Driller	8.625 @ 1641		
Casing Logger	1642		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2700		
Density / Viscosity	9.3 61		
pH / Fluid Loss	10.0 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.70 @ 68		
Rmt @ Meas. Temp	0.53 @ 68		
Rmc @ Meas. Temp	0.95 @ 68		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.38 @ 126		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	126		
Equipment Number	P-24		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Kevin Timson		

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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.

Pierceville,
1.3 South on Main, 1 West,
3/4 South to location

Log Measured From: Kelly Bushing 13 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: Kevin Timson	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\american warrior_obrate beach 1-26.db
Dataset field/well/stkml/pass4.15/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	126	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	-240	60		5030

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



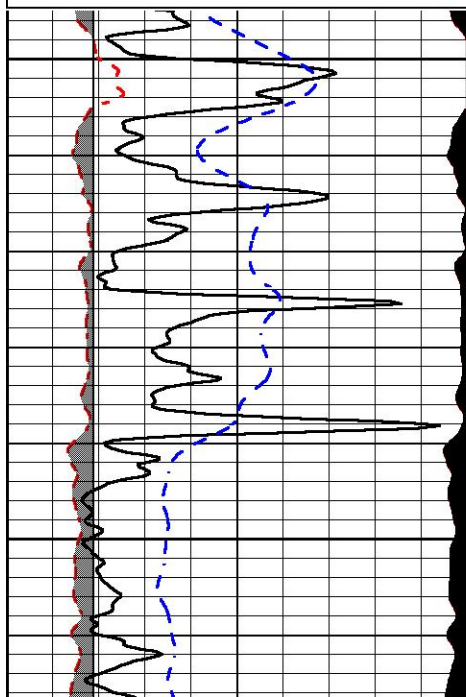
DETAIL SECTION

MAIN PASS

Database File american warrior_obrate beach 1-26.db
Dataset Pathname stkml/pass4.1
Presentation Format _micro
Dataset Creation Thu Apr 21 01:17:35 2022
Charted by Depth in Feet scaled 1:240

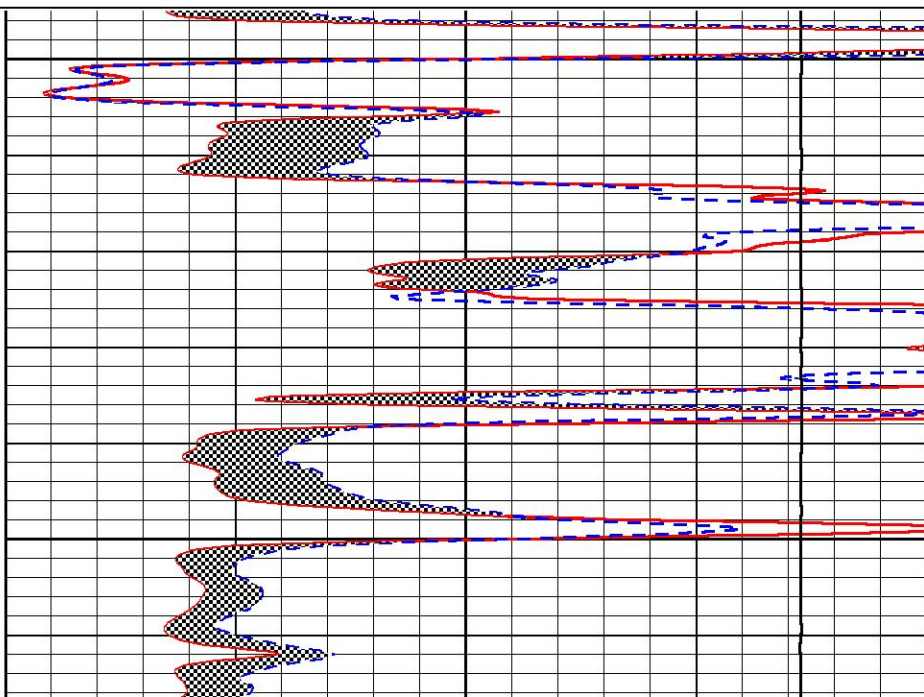
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	SP (mV)	0

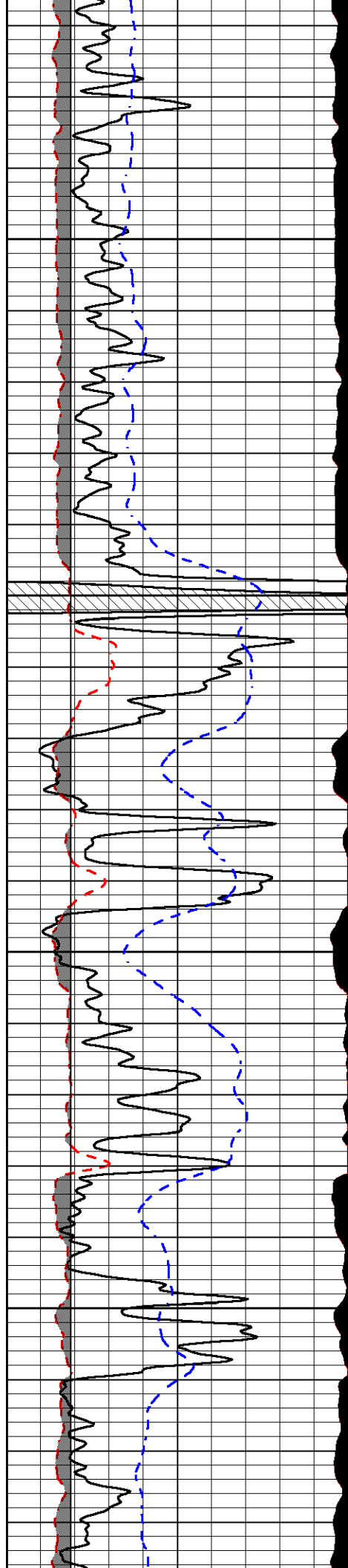
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3800

3850



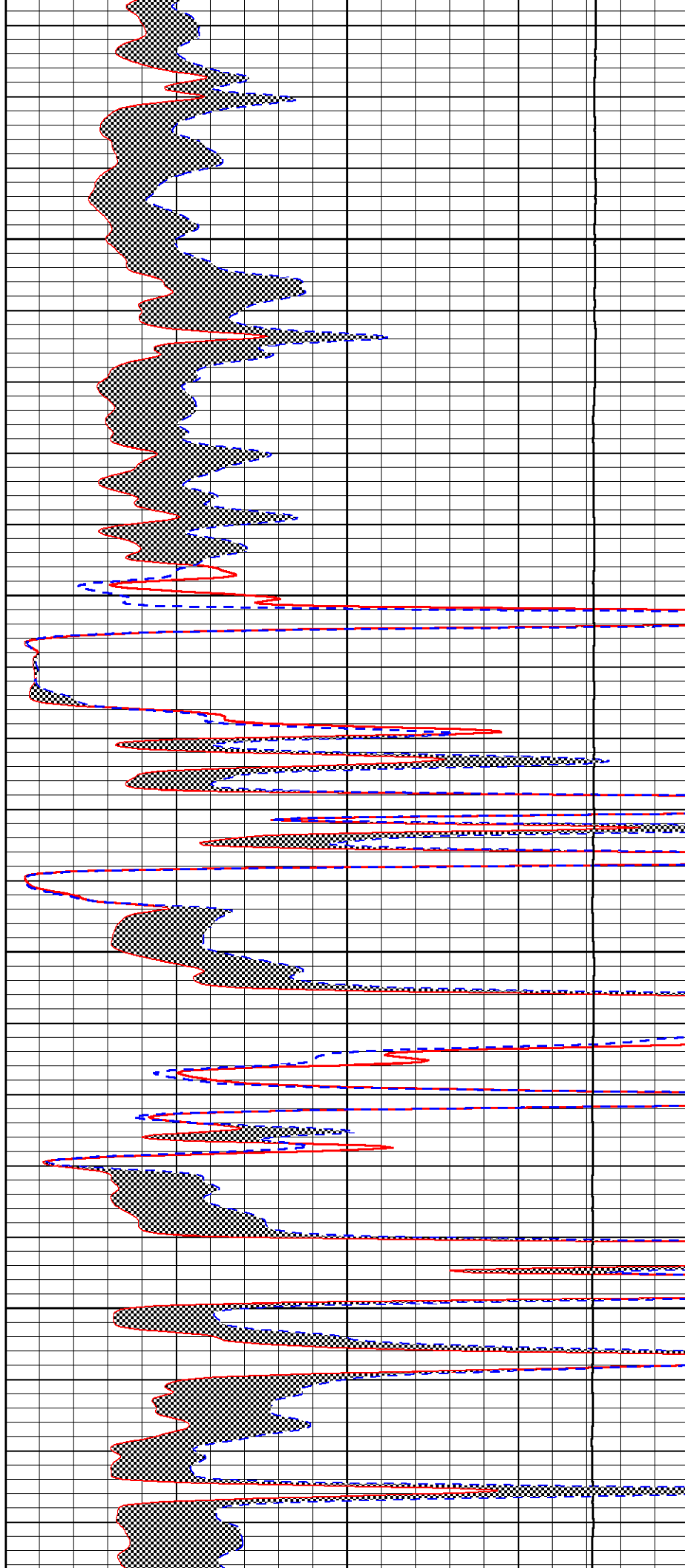


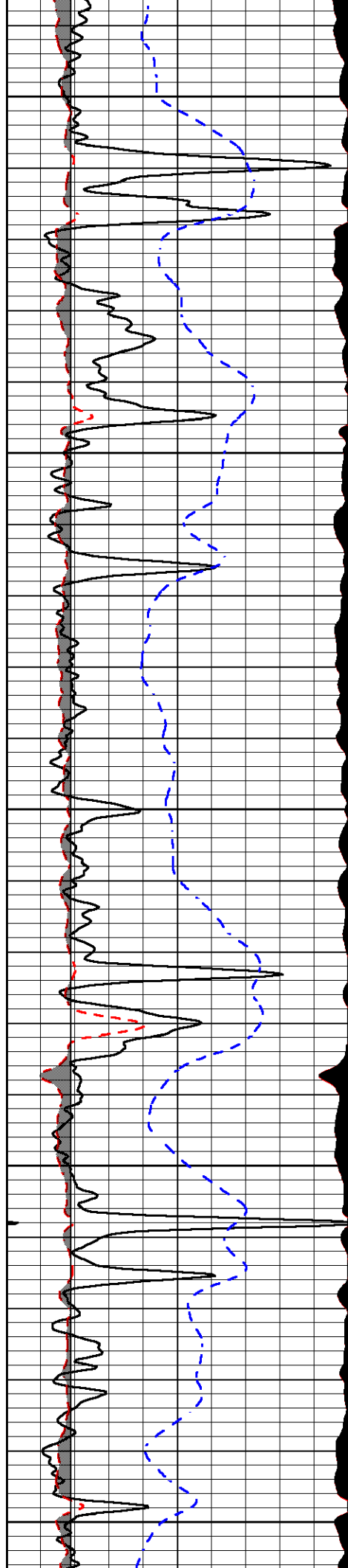
3900

3950

4000

4050





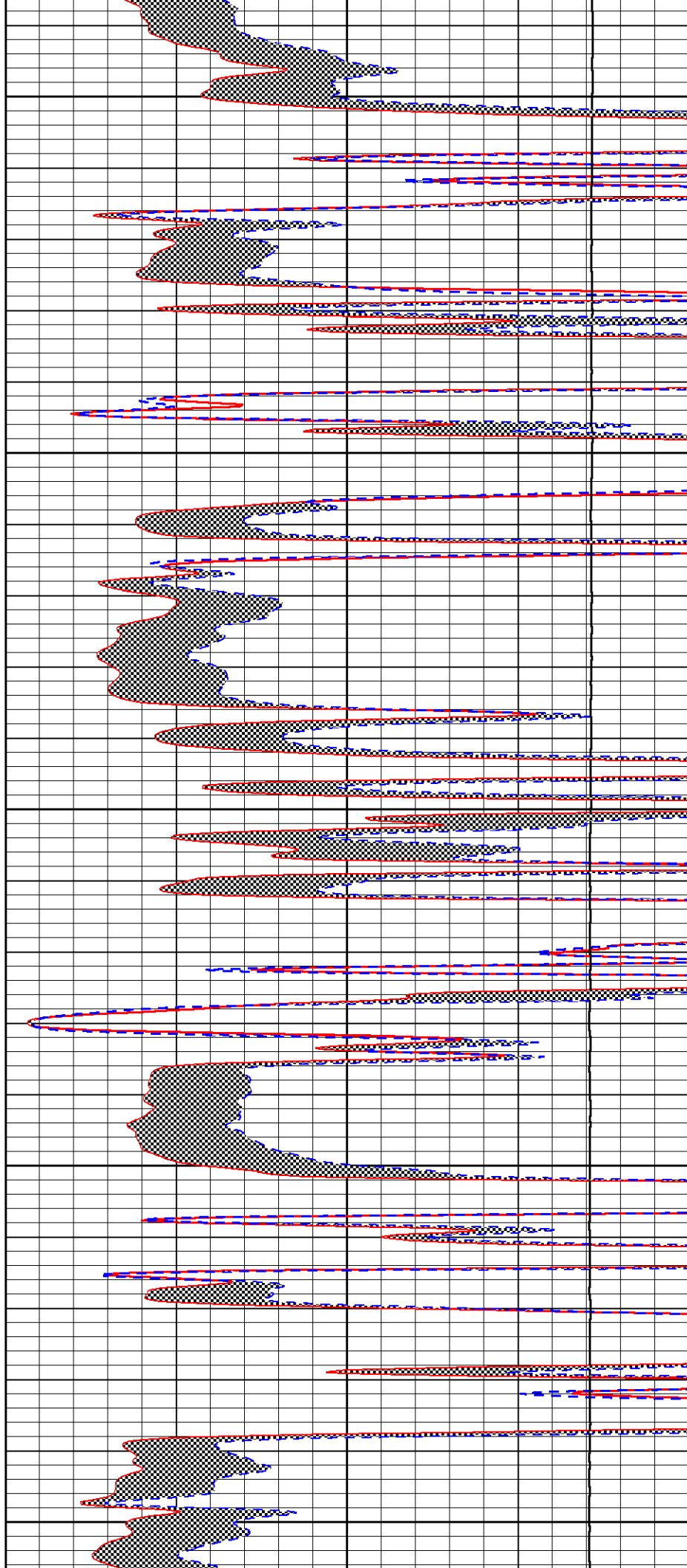
4100

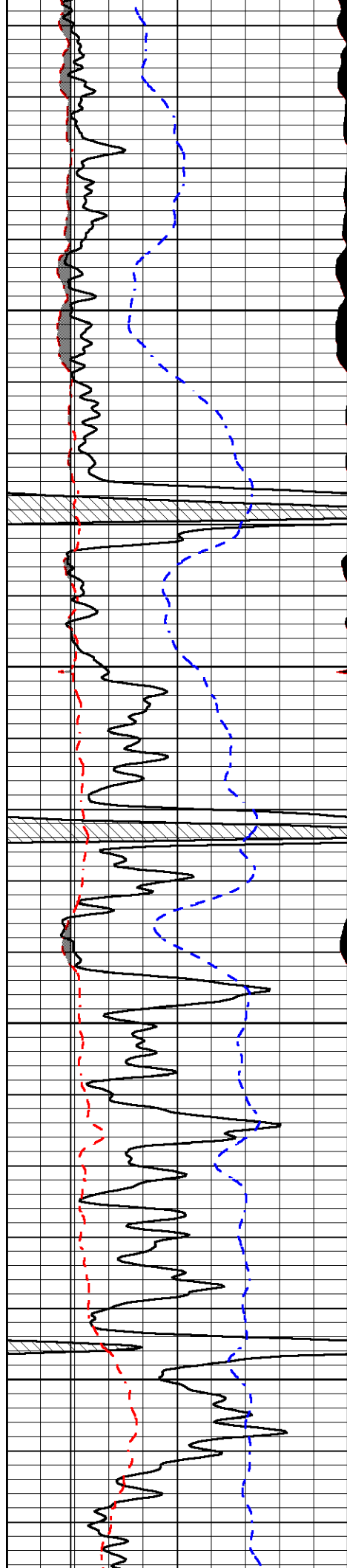
4150

4200

4250

4300



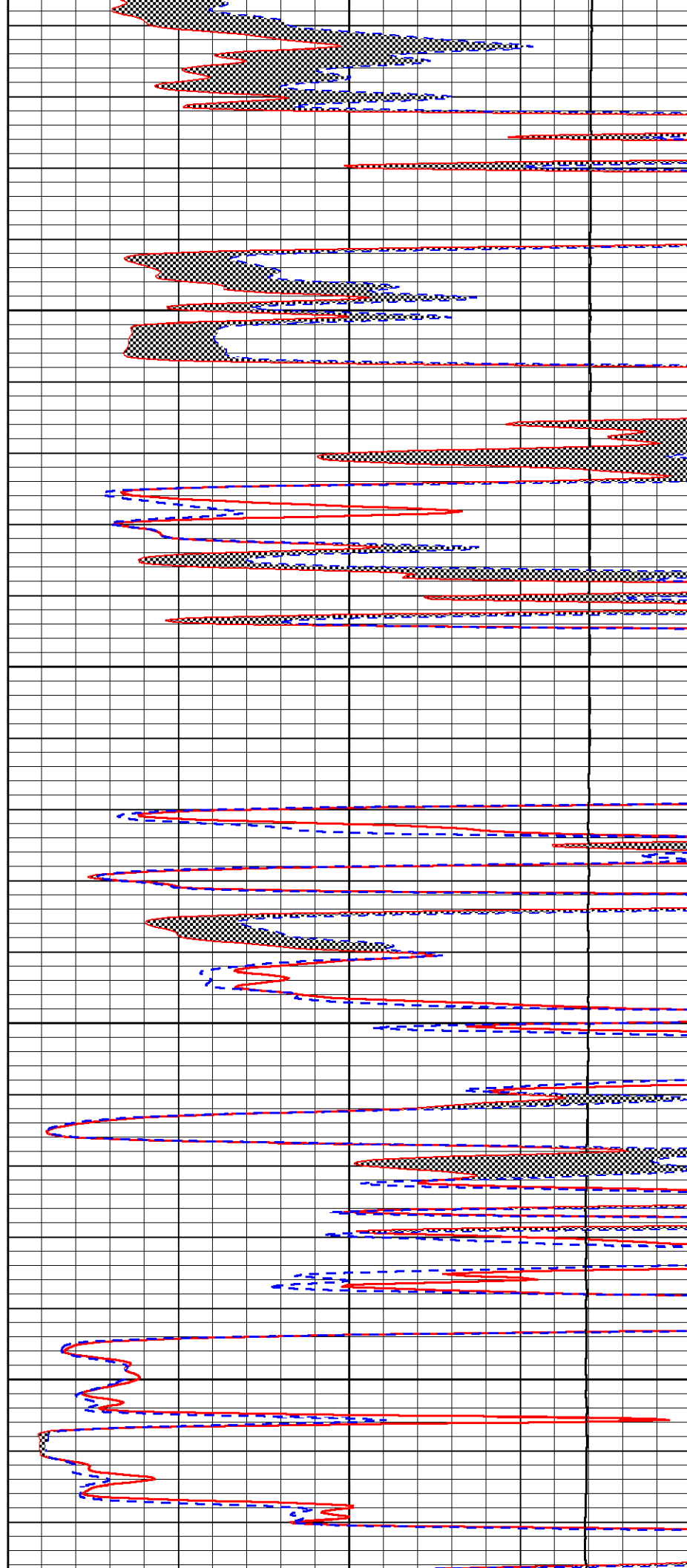


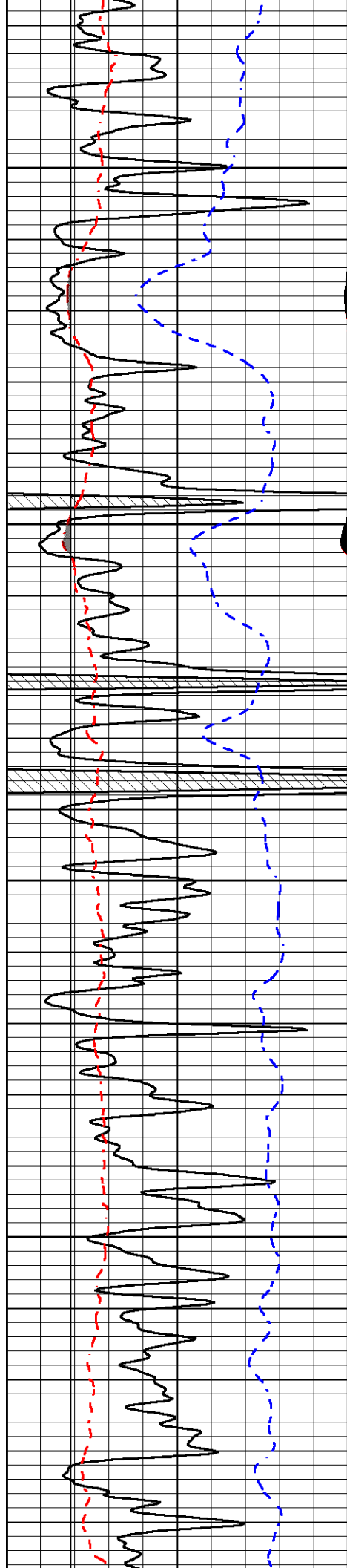
4350

4400

4450

4500



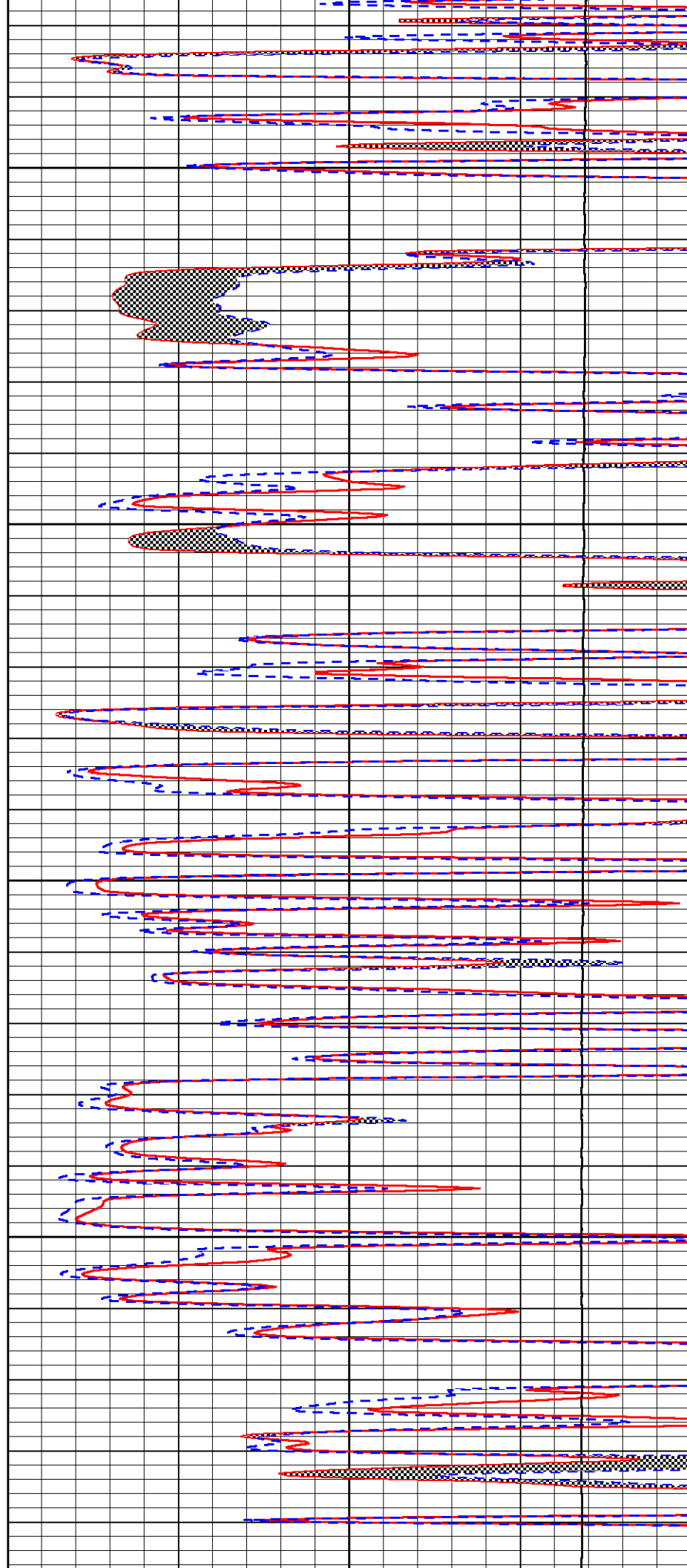


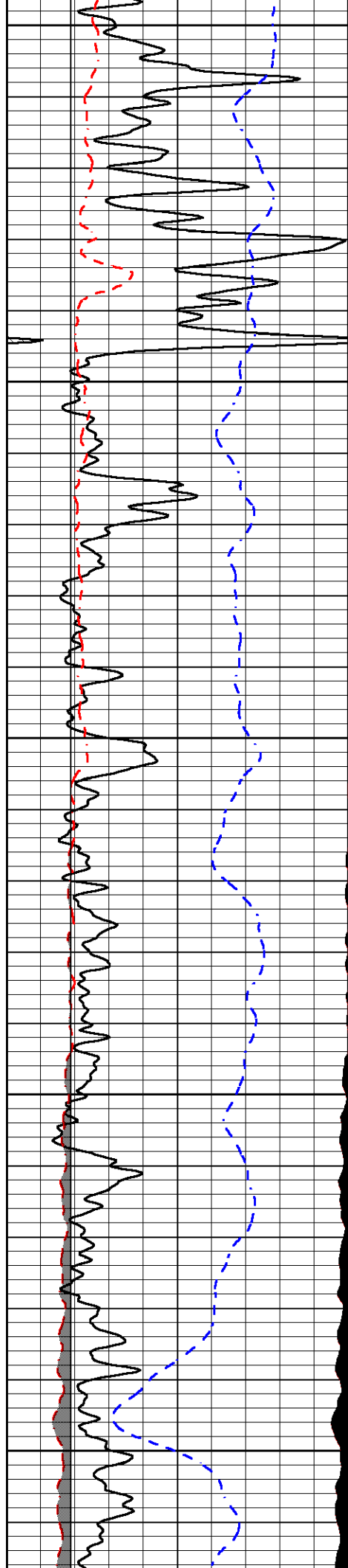
4550

4600

4650

4700





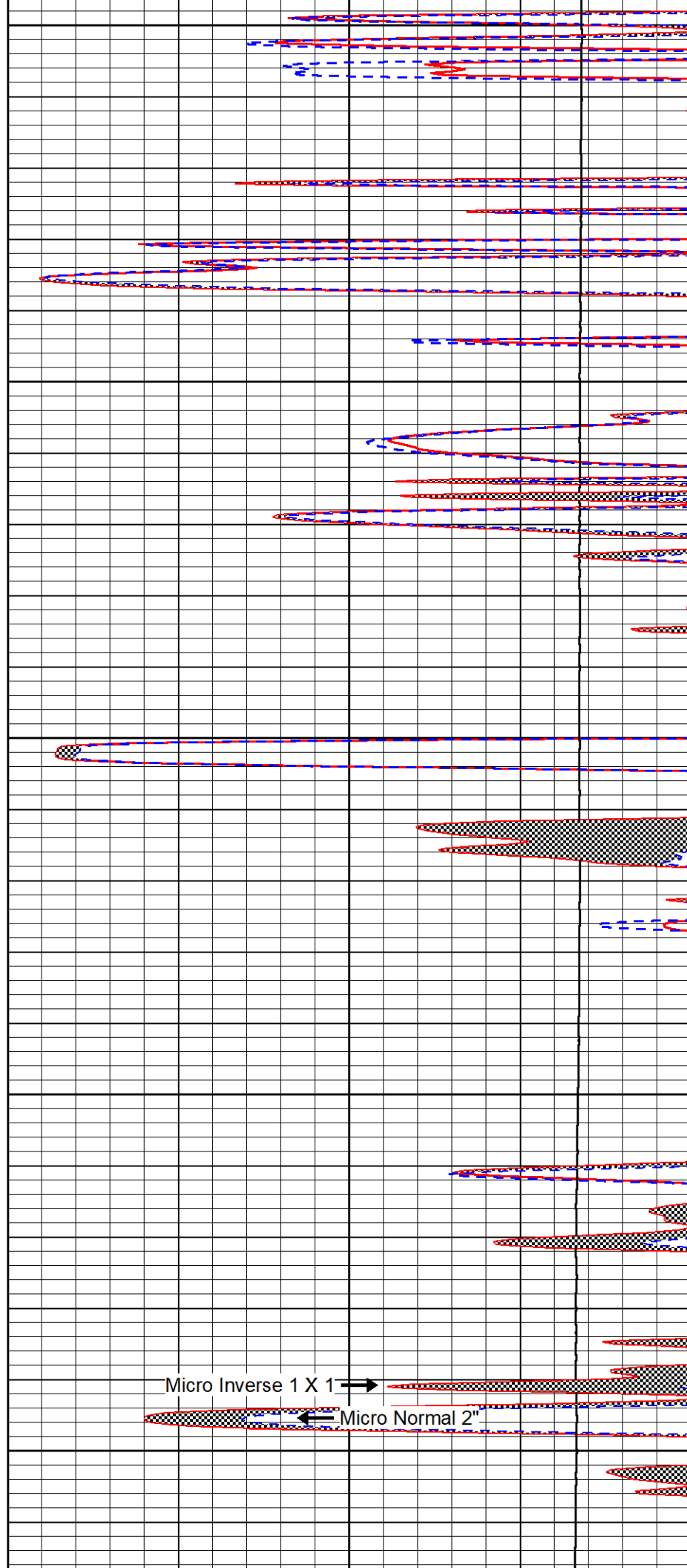
4750

4800

4850

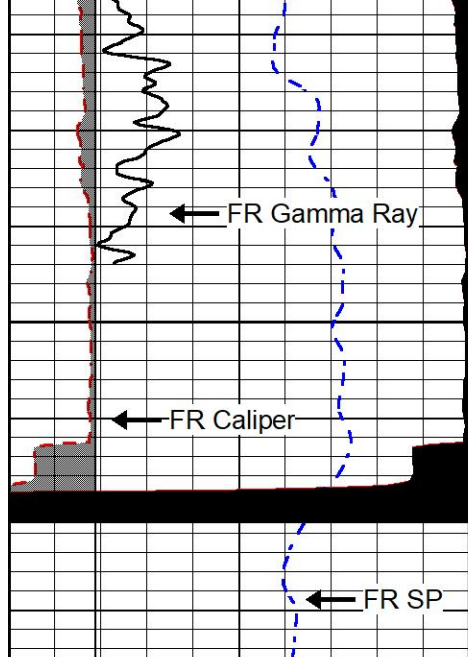
4900

4950



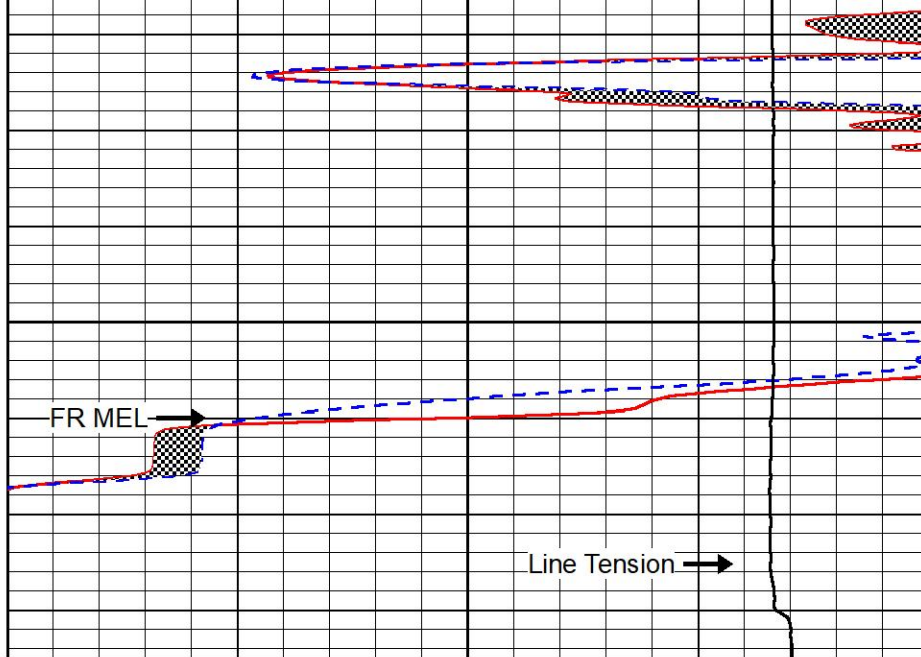
Micro Inverse 1 X 1 →

← Micro Normal 2"



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

5000



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



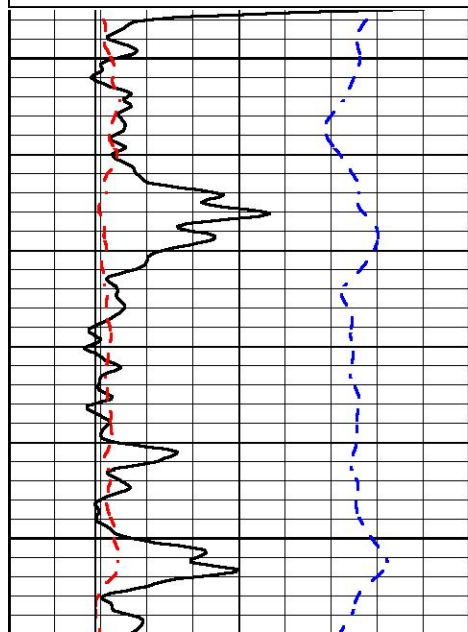
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File american_warrior_brate_beach_1-26.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _micro
 Dataset Creation Thu Apr 21 00:48:17 2022
 Charted by Depth in Feet scaled 1:240

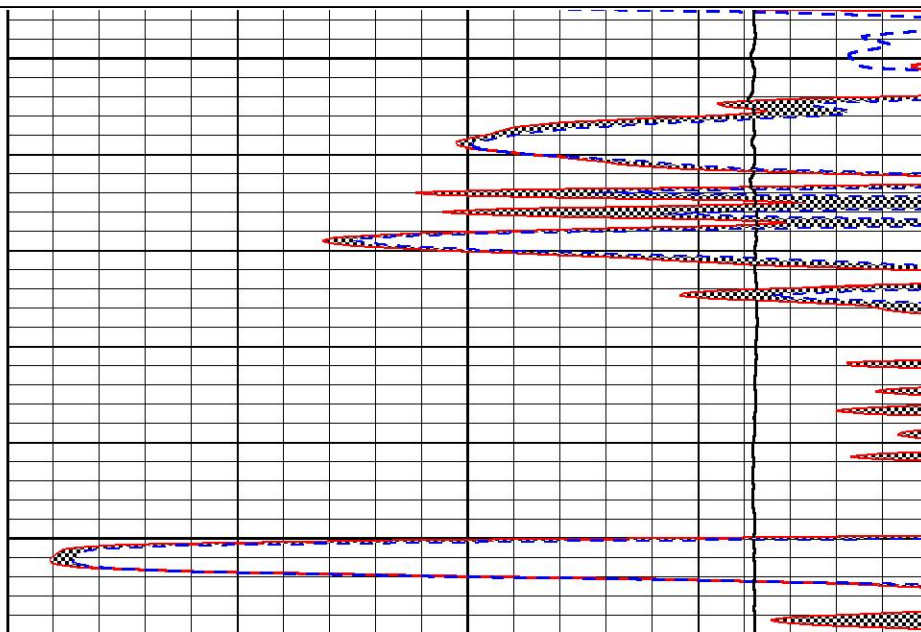
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	SP (mV)	0

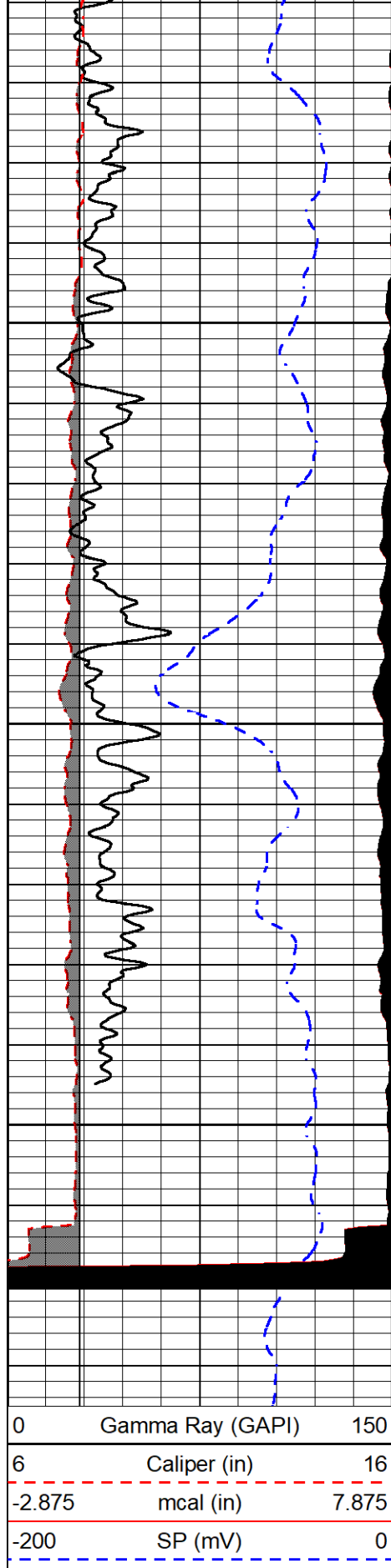


4800

4850

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

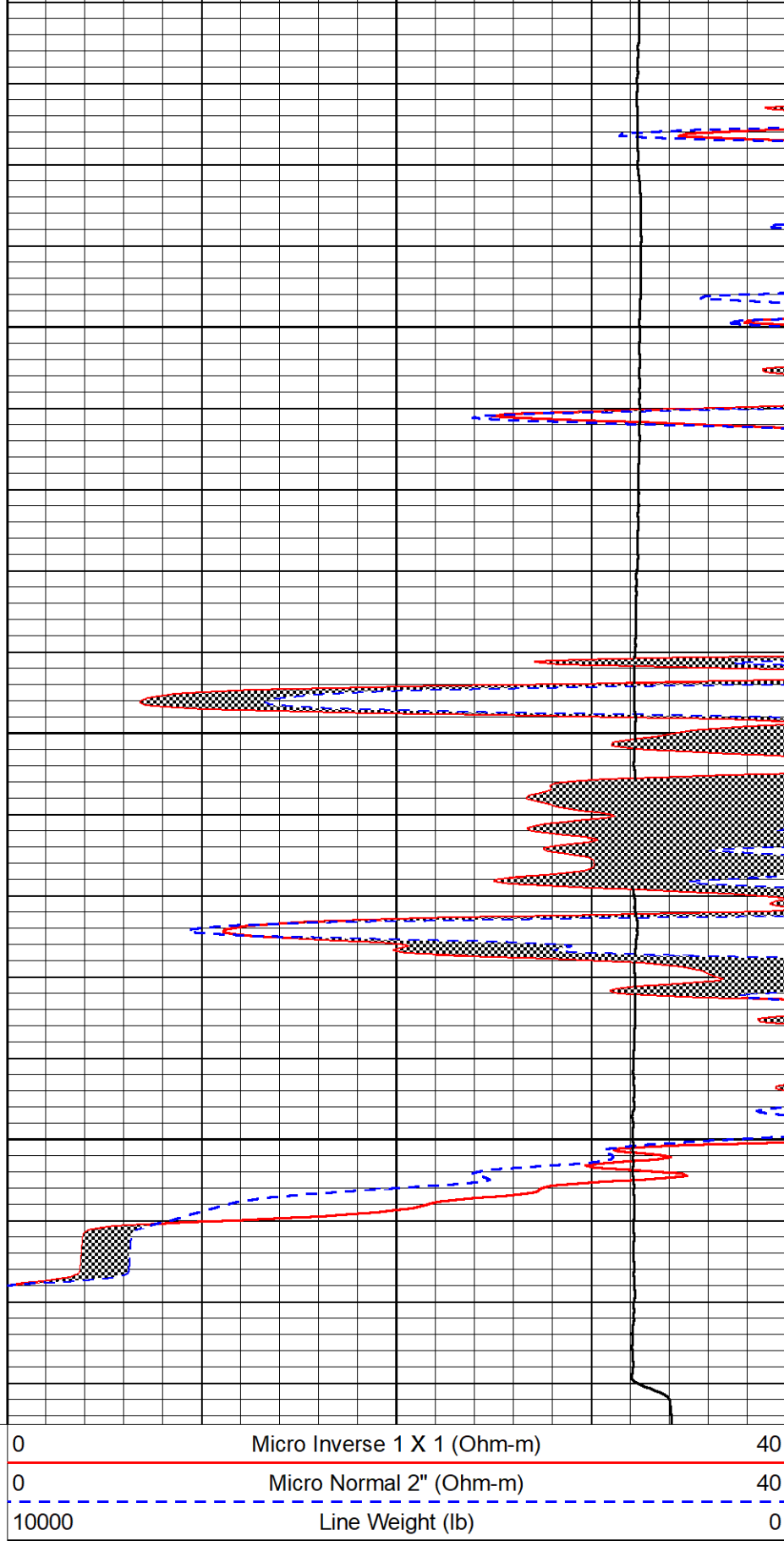




4900

4950

5000



Calibration Report

Database File american_warrior_obrate_beach_1-26.db
 Dataset Pathname stkml/pass4.15
 Dataset Creation Thu Apr 21 00:12:57 2022

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:

501 HT-M&W
Wed Feb 23 19:44:50 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-37.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.305	-32.500

Microlog Calibration Report

Serial-Model:
Performed:

402-PSIML
Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-0.4000
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-122.2000

Compensated Density Calibration Report

Serial-Model:
Source #:
Master Calibration Performed:

305-05-M&W
20762B
Mon Mar 28 23:57:02 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8862.47	9339.96	cps
Aluminum	2.600	g/cc	1556.73	5707.29	cps
Spine Angle = 74.19			Density/Spine Ratio = 0.467		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial-Model:
Source #:
Master Calibration Performed:

207-MW-M&W
100046B
Mon Nov 29 15:06:24 2021

Master 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:
Tool Model:
Performed:

101
M&W
Mon Jan 24 19:11:46 2022

Performed:

Mon Jan 24 15:14:40 2022

Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



Company	American Warrior, Inc.
Well	O'Brate-Beach #1-26
Field	Wildcat
County	Finney
State	Kansas