



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Castle Resources Inc.	
Well	Kennedy #1
Field	
County	Sheridan
State	Kansas
Company Castle Resources Inc.	
Well	Kennedy #1
Field	
County	Sheridan
State	Kansas
Location:	API #: 15-179-21486-00-00
E/2 - E/2 - W/2	
Permanent Datum	SEC 23 TWP 9S RGE 28W
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	2802
Other Services	CNL/CDL DIL
K.B.	2807
D.F.	
G.L.	2802
Date	5/31/2022
Run Number	One
Depth Driller	4210
Depth Logger	4210
Bottom Logged Interval	4209
Top Log Interval	3400
Casing Driller	8.625 @ 310
Casing Logger	307
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3000
Density / Viscosity	9.5 50
pH / Fluid Loss	9.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.55 @ 80
Rmt @ Meas. Temp	0.41 @ 80
Rmc @ Meas. Temp	0.74 @ 80
Source of Rmt / Rmc	CHARTS
Rm @ BHT	0.37 @ 118
Operating Rig Time	3 Hours
Max Rec. Temp. F	118
Equipment Number	P-24
Location	Hays
Recorded By	B. Waggoner
Witnessed By	Jerry Green
	D. Schmidt

<<< Fold Here >>>

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.

Hoxie,

South to 70 Road, 1 1/2 Miles East, South 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: B. Waggoner
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Jerry Green
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_kennedy#1.db
Dataset field/well/stkml/pass4.15/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-95	80	Off	4210

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



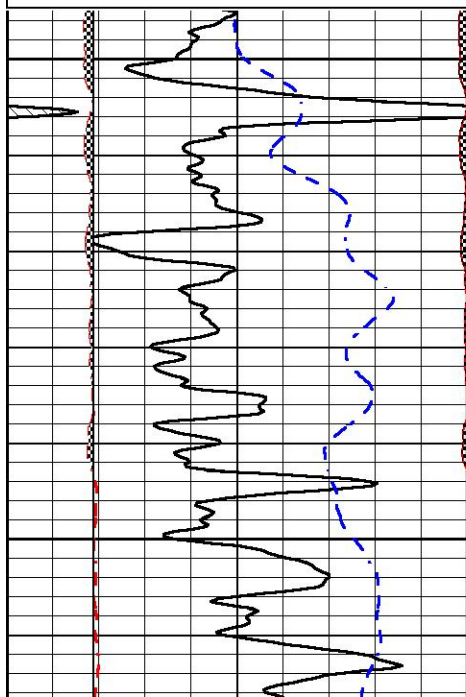
DETAIL SECTION

MAIN PASS

Database File castle_kennedy#1.db
Dataset Pathname stkml/pass4.1
Presentation Format _micro
Dataset Creation Tue May 31 16:35:32 2022
Charted by Depth in Feet scaled 1:240

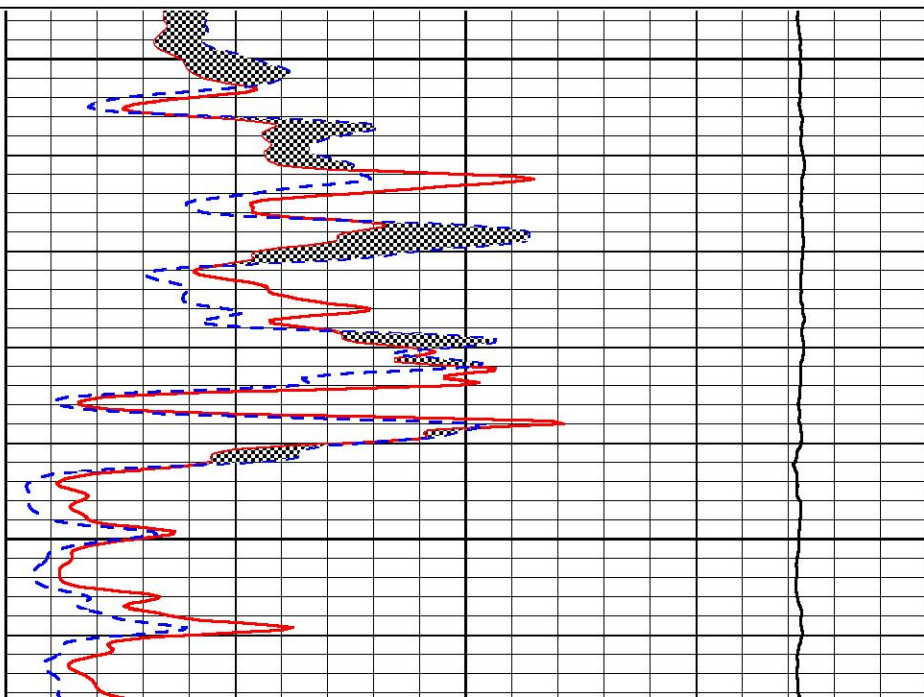
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	sp (mV)	0

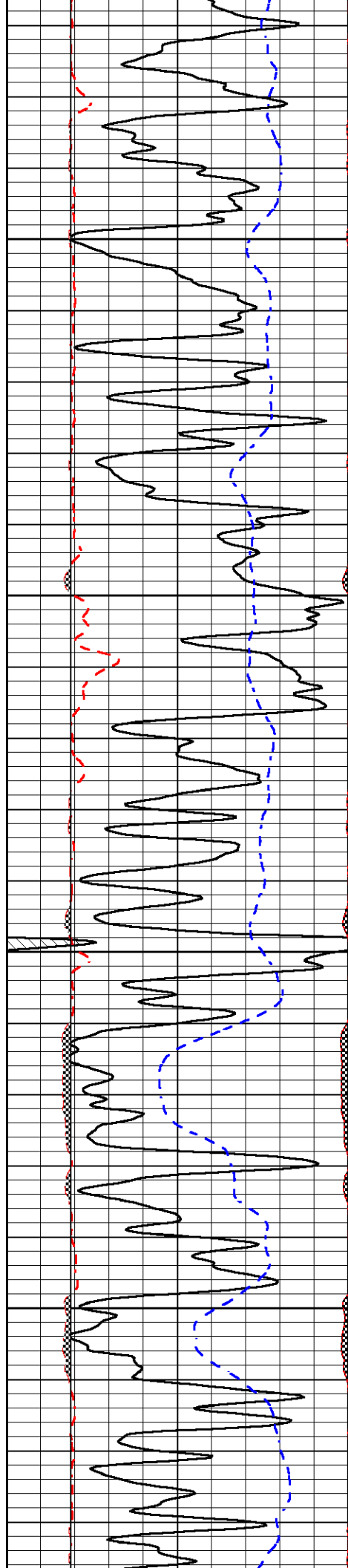
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3400

3450



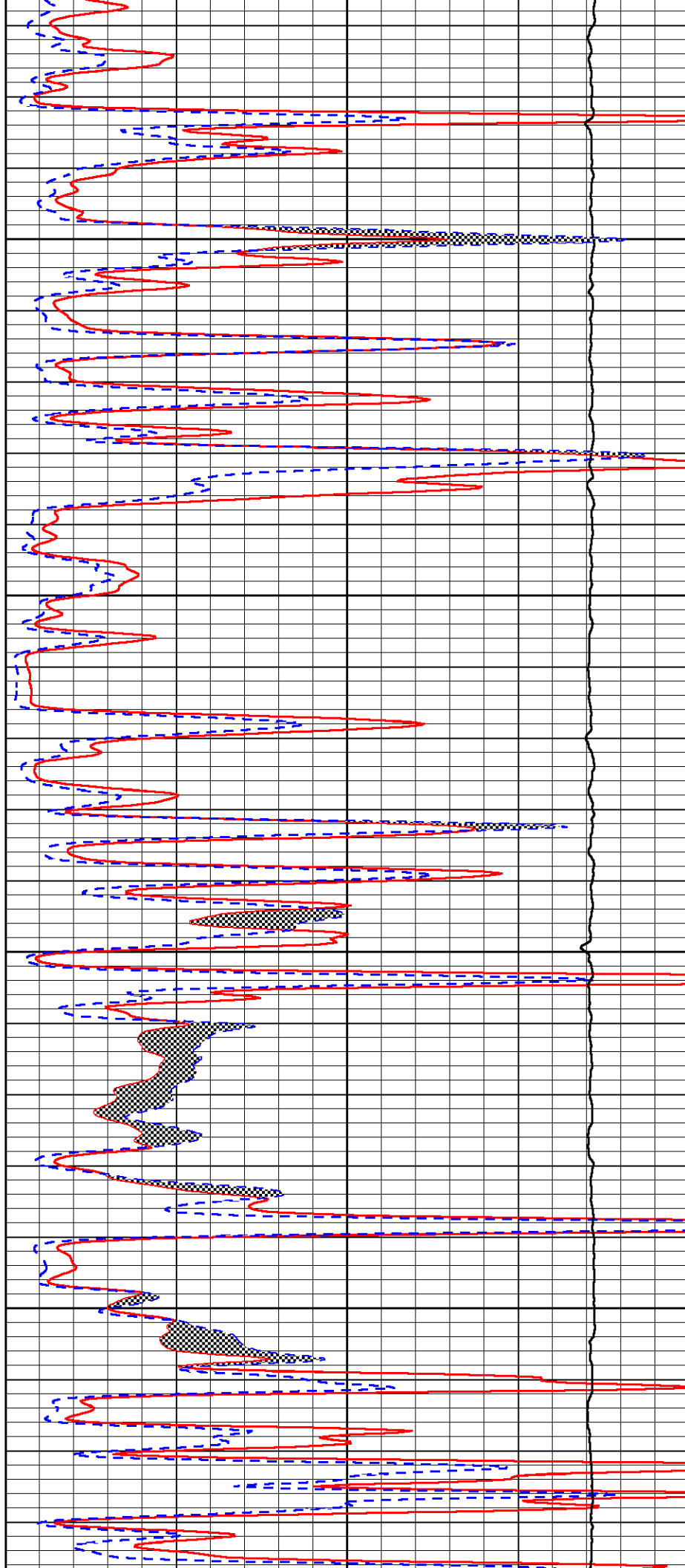


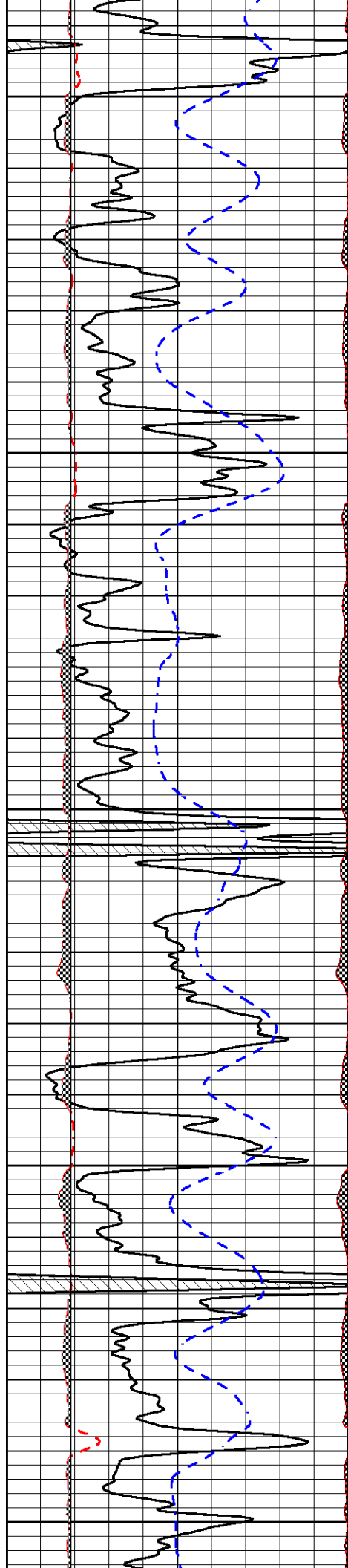
3500

3550

3600

3650





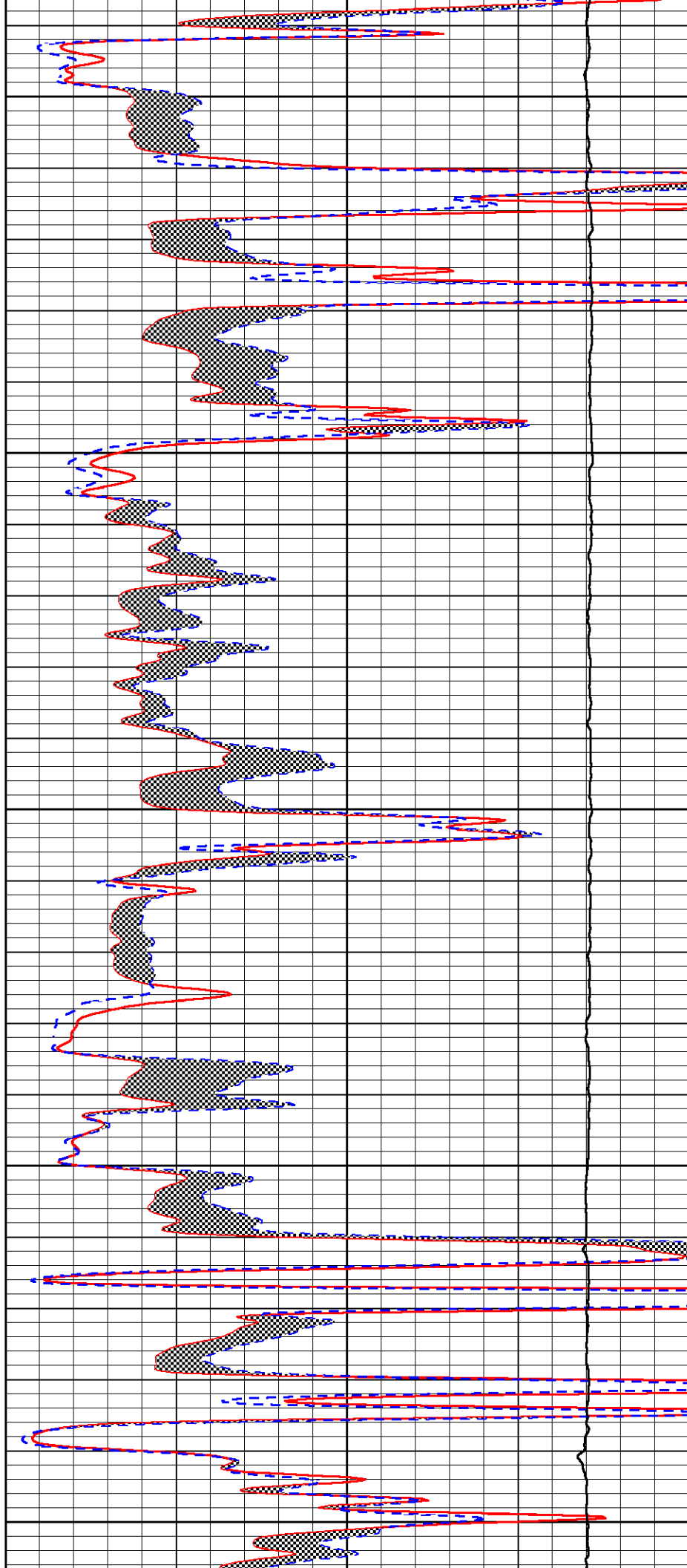
3700

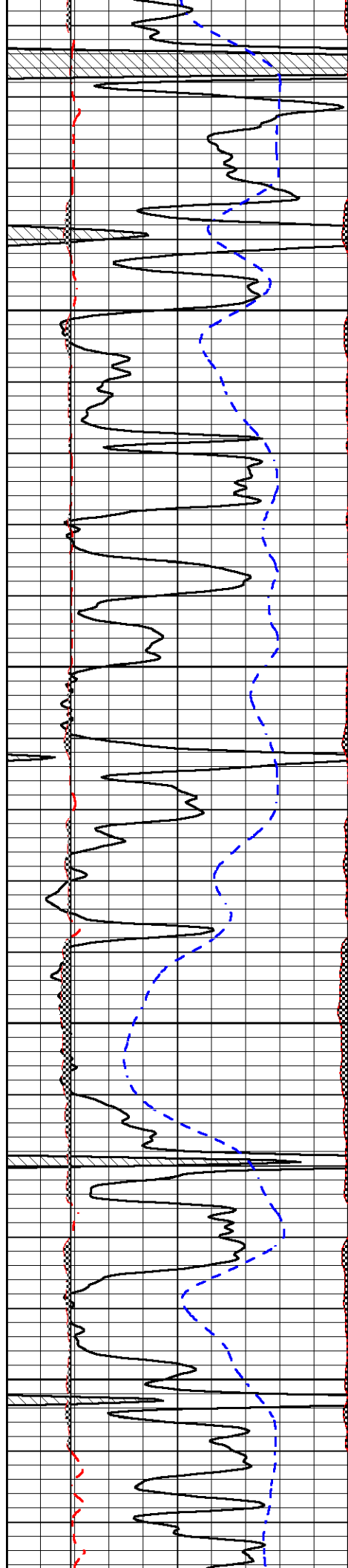
3750

3800

3850

3900



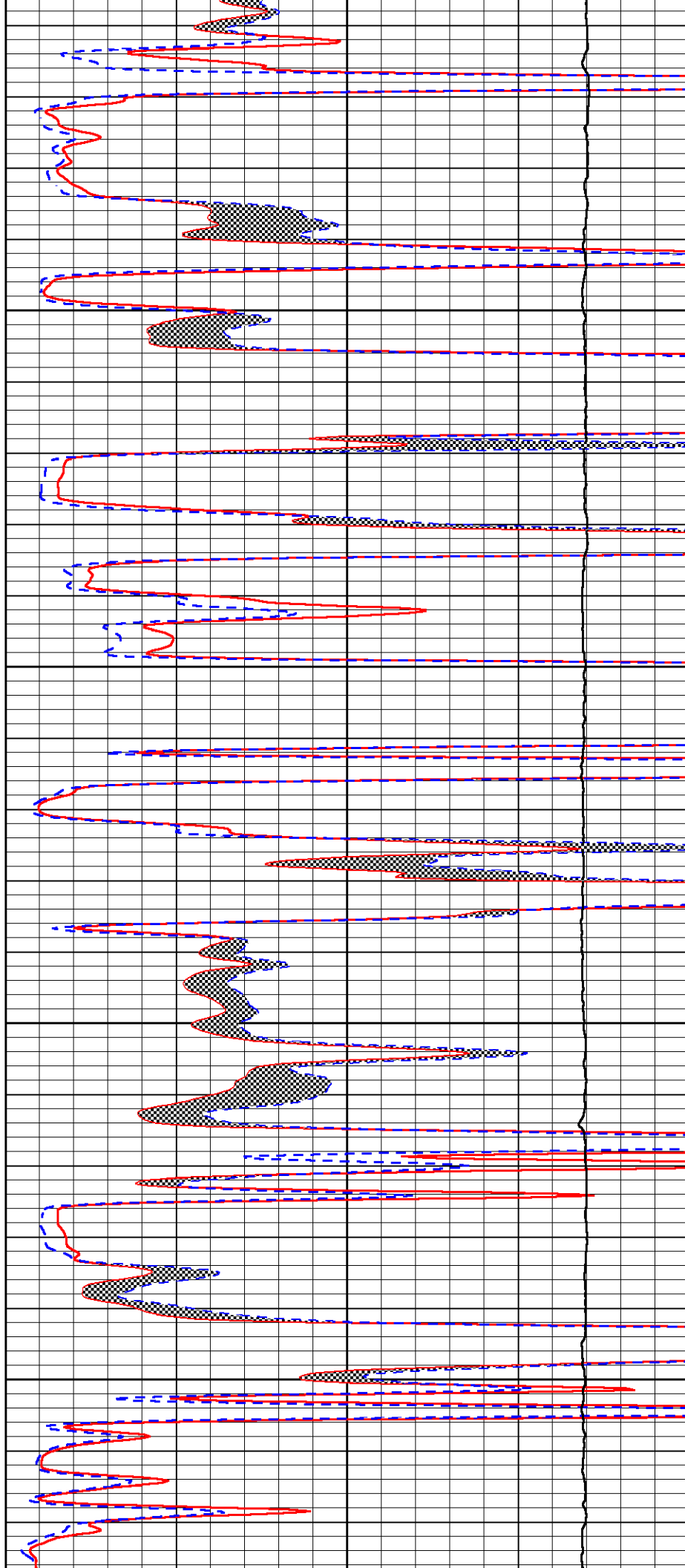


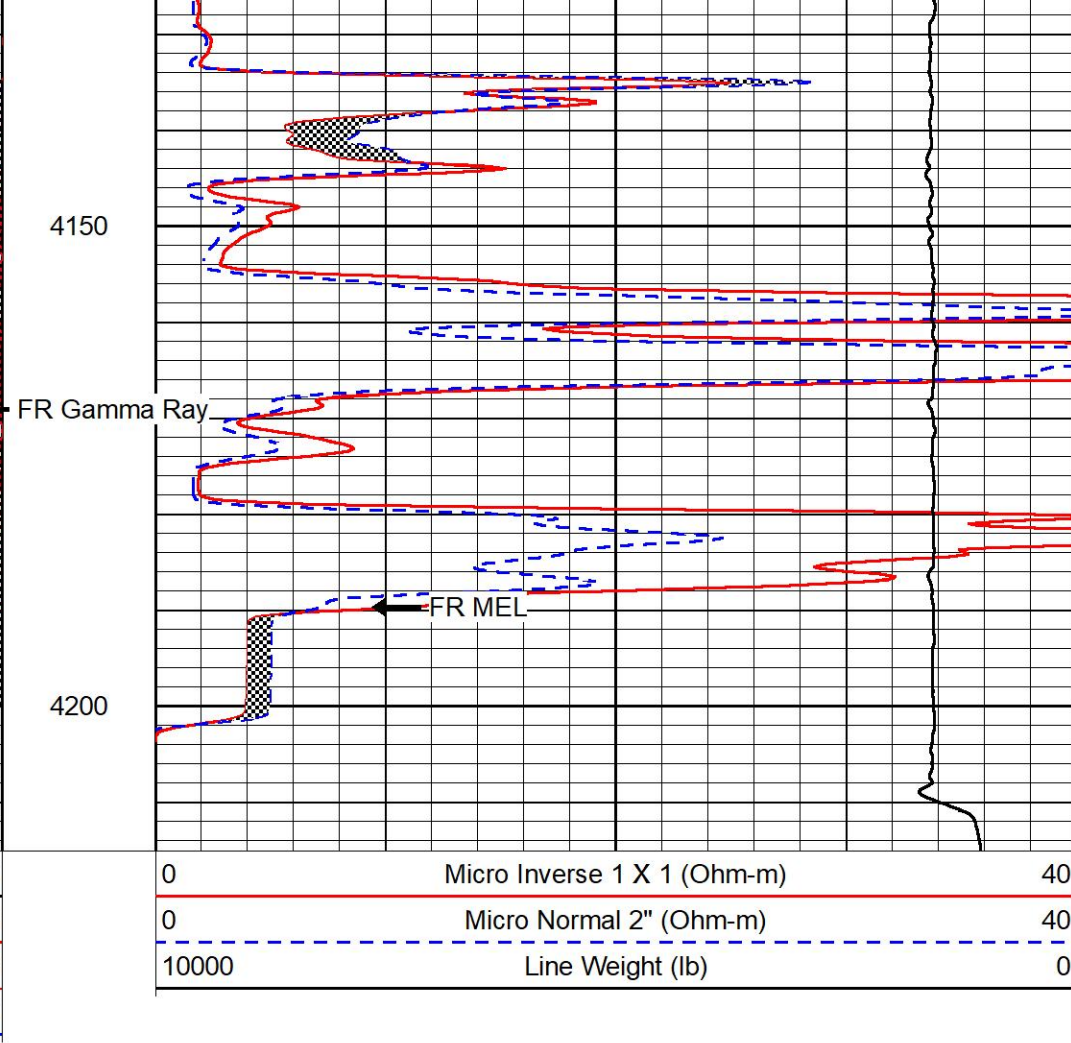
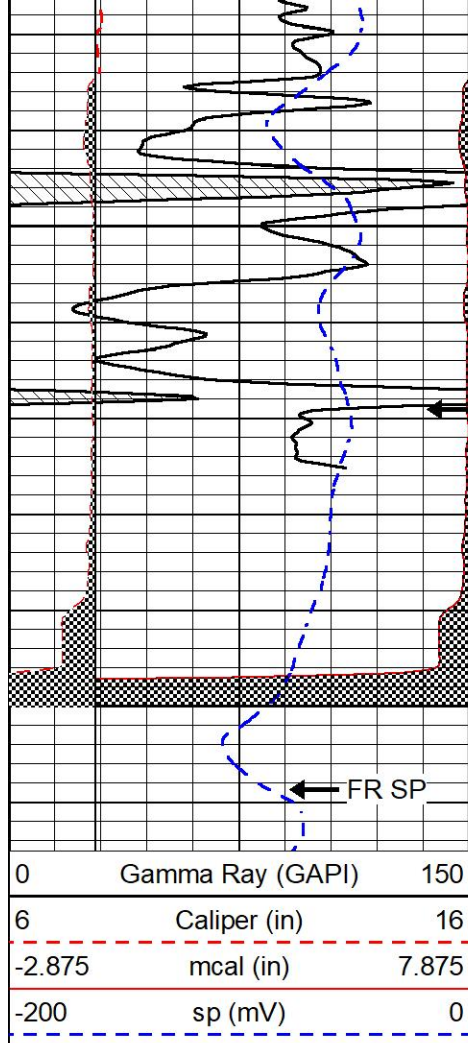
3950

4000

4050

4100



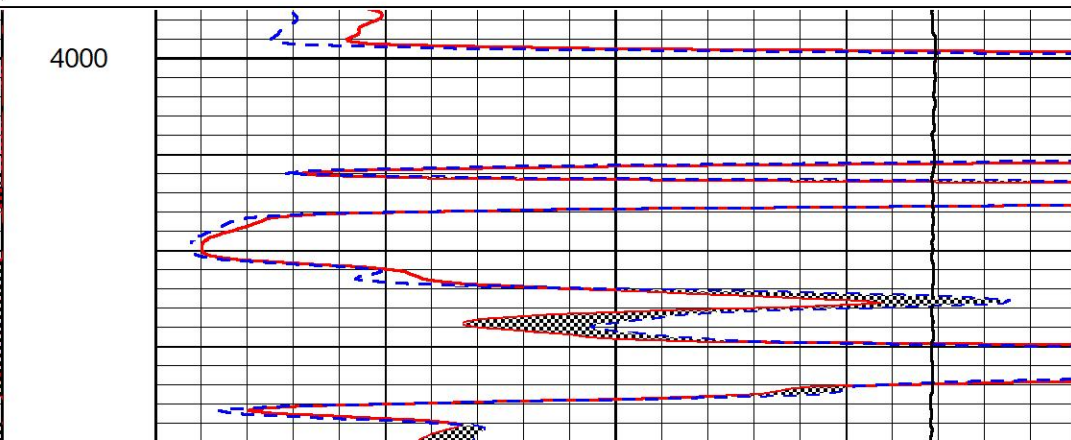
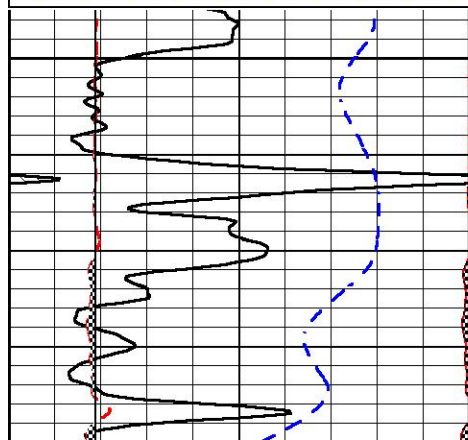
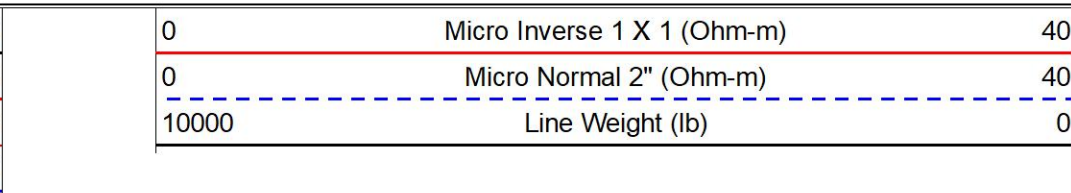
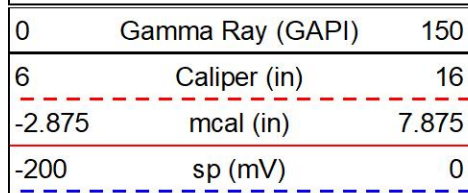


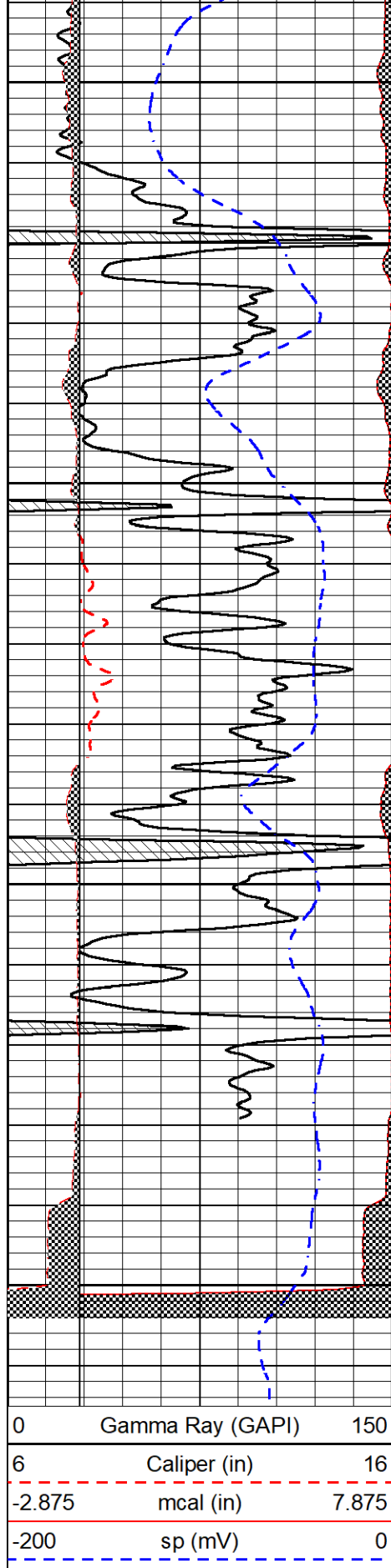
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File castle_kennedy#1.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _micro
 Dataset Creation Tue May 31 16:05:18 2022
 Charted by Depth in Feet scaled 1:240



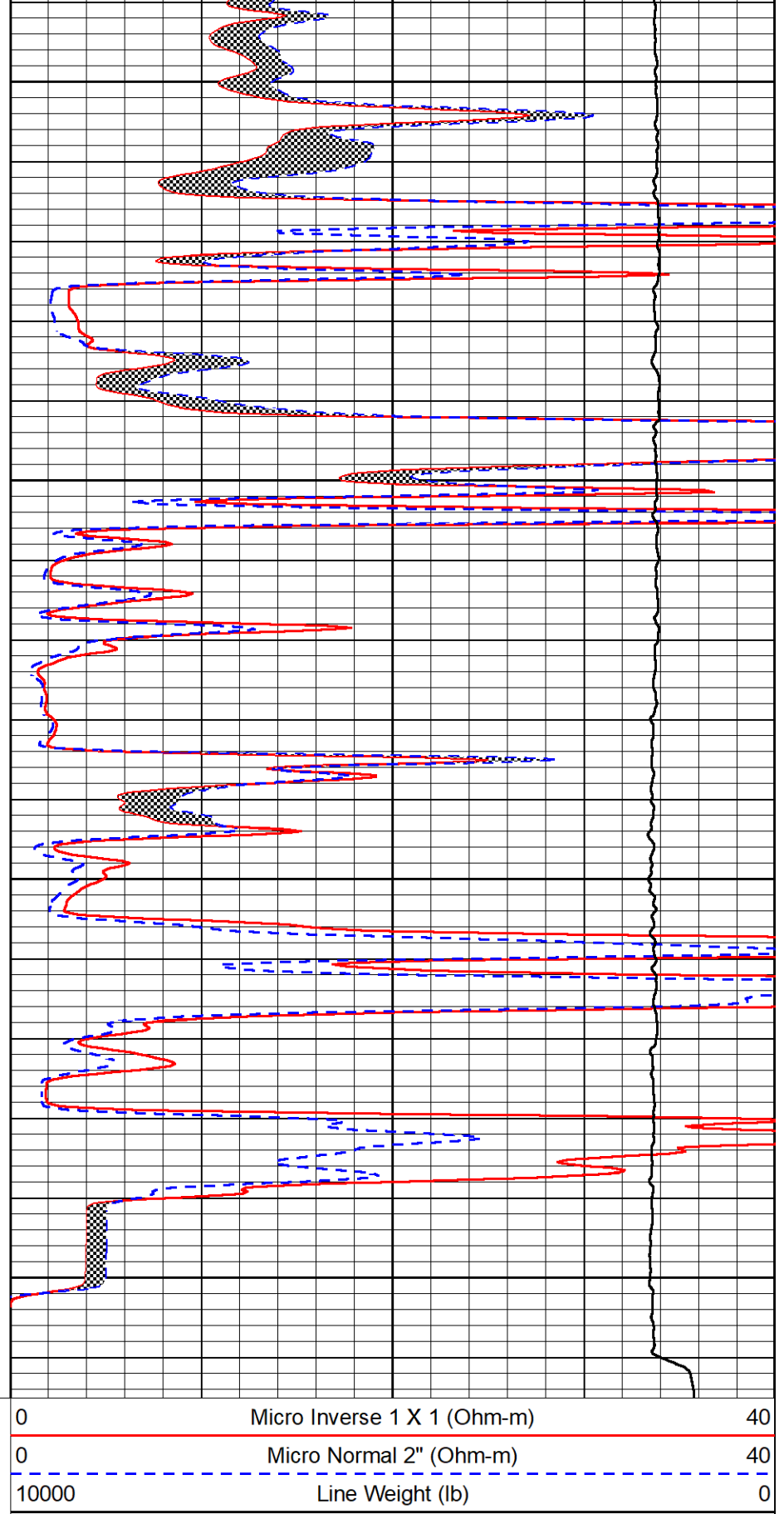


4050

4100

4150

4200



Calibration Report

Database File castle_kennedy#1.db
 Dataset Pathname stkml/pass4.15
 Dataset Creation Tue May 31 15:53:37 2022

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:

502 HT-M&W
Wed Feb 9 17:39:00 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.454	-38.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.350	-10.000

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	21000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	65.0000	-59.8000

Compensated Density Calibration Report

Serial-Model:
Source #:
Master Calibration Performed:

305-05-M&W
20762B
Fri Apr 22 07:18:08 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 Jun 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



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State	Kansas