



MIDWEST WIRELINE

# MICRORESISTIVITY LOG

Company Castle Resources Inc.  
 Well Kennedy 1  
 Field Farber East  
 County Sheridan  
 State Kansas

Company Castle Resources Inc.  
 Well Kennedy 1  
 Field Farber East  
 County Sheridan State Kansas

Location: API #: 15-179-21505-00-00  
 1760 FSL & 925 FWL  
 SEC 32 TWP 8S RGE 27W  
 Permanent Datum Ground Level Elevation 2562  
 Log Measured From Kelly Bushing  
 Drilling Measured From Kelly Bushing  
 Other Services  
 CNL/CDL  
 DIL  
 Elevation  
 K.B. 2567  
 D.F.  
 G.L. 2562

Date	6/5/2024
Run Number	One
Depth Driller	3990
Depth Logger	3990
Bottom Logged Interval	3989
Top Log Interval	3300
Casing Driller	8:625 @ 210
Casing Logger	203
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	2000
Density / Viscosity	9.2 41
pH / Fluid Loss	8.9 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.95 @ 78
Rmt @ Meas. Temp	.71 @ 78
Rmc @ Meas. Temp	1.28 @ 78
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.64 @ 116
Operating Rig Time	2 1/2 Hours
Max Rec. Temp. F	116
Equipment Number	P-108
Location	HAYS
Recorded By	J. Henrickson
Witnessed By	Jerry Green

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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.

Hoxie Kansas  
 South to 70 Rd, 4 East, 2 North,  
 East 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		This Log Record Was Witnessed By	
Engineer: J. Henrickson	Operator:	Primary Witness: Jerry Green	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Operator	Offset (ft)	Substrate	Description	Length (ft)	C.D. (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (102)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (307-25)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (401)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (507)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: castle\_kennedy\_1.db: field/well/stackml/pass3.1  
 Total length: 42.33 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle\_kennedy\_1.db  
 Dataset field/well/stackml/pass3.1/\_vars\_

## Top - Bottom

BOREID in 7.875	BOTTEMP degF 118	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 0	SPSHIFT mV 317	SRFTEMP degF 0	SZCOR Off	TDEPTH ft 3990		

## 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



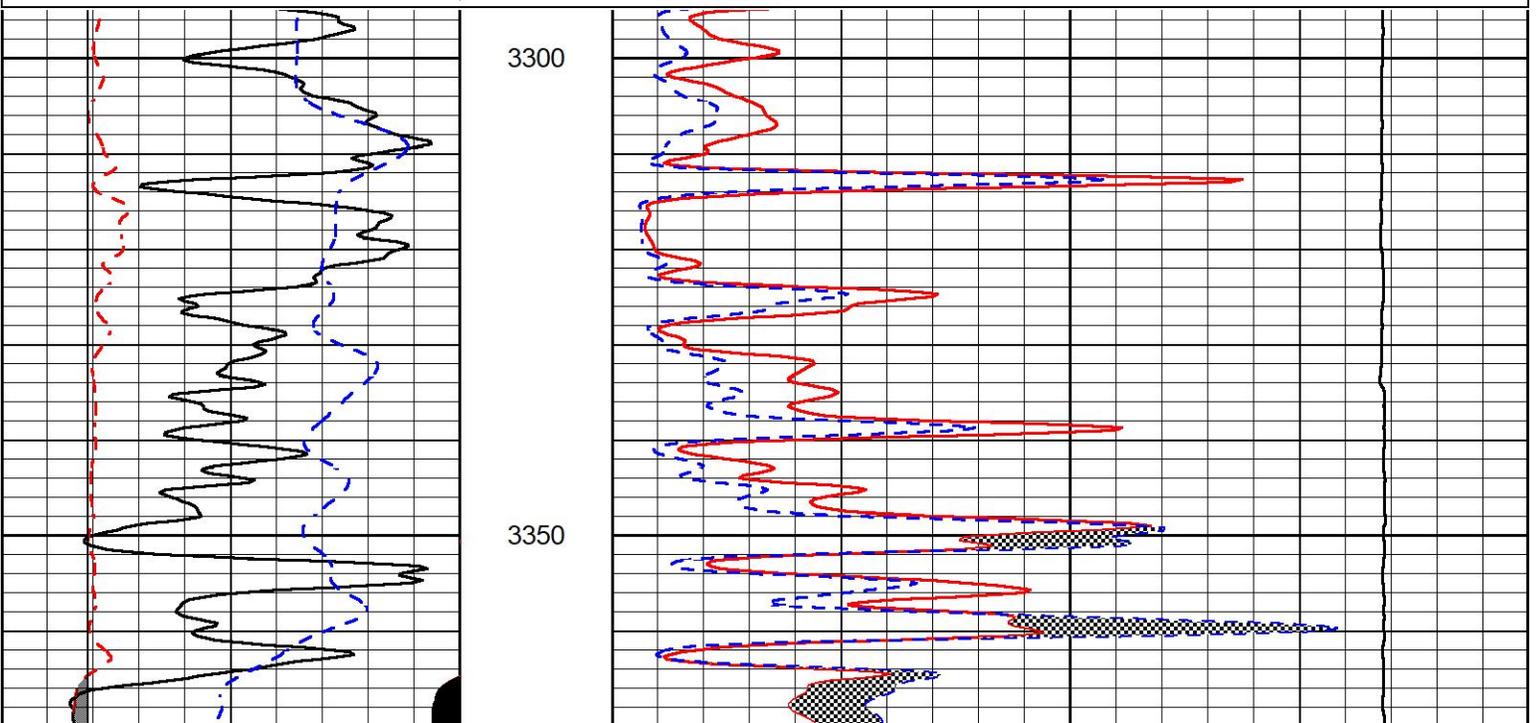
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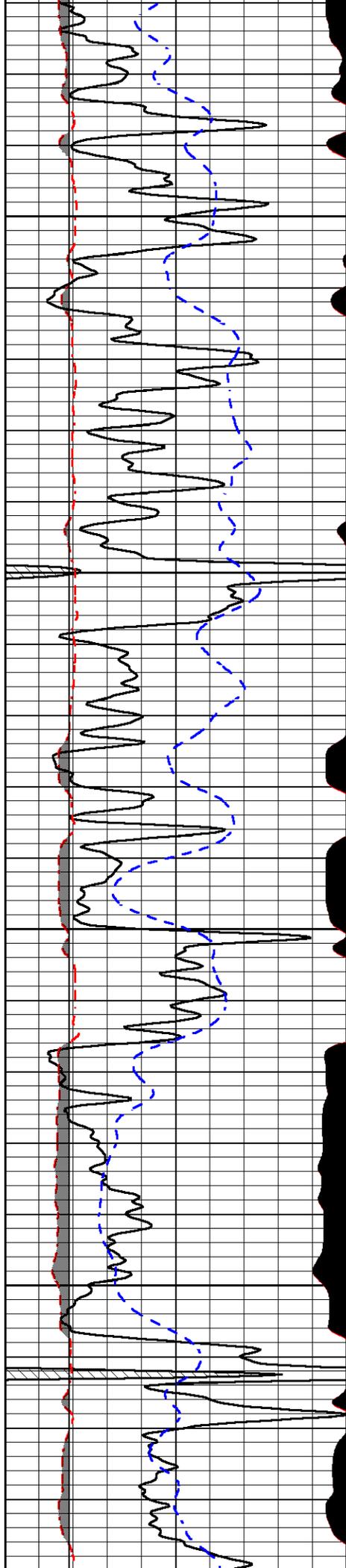
### MAIN PASS

Database File castle\_kennedy\_1.db  
 Dataset Pathname stackml/pass3.1  
 Presentation Format \_micro  
 Dataset Creation Thu Jun 06 01:12:34 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)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0



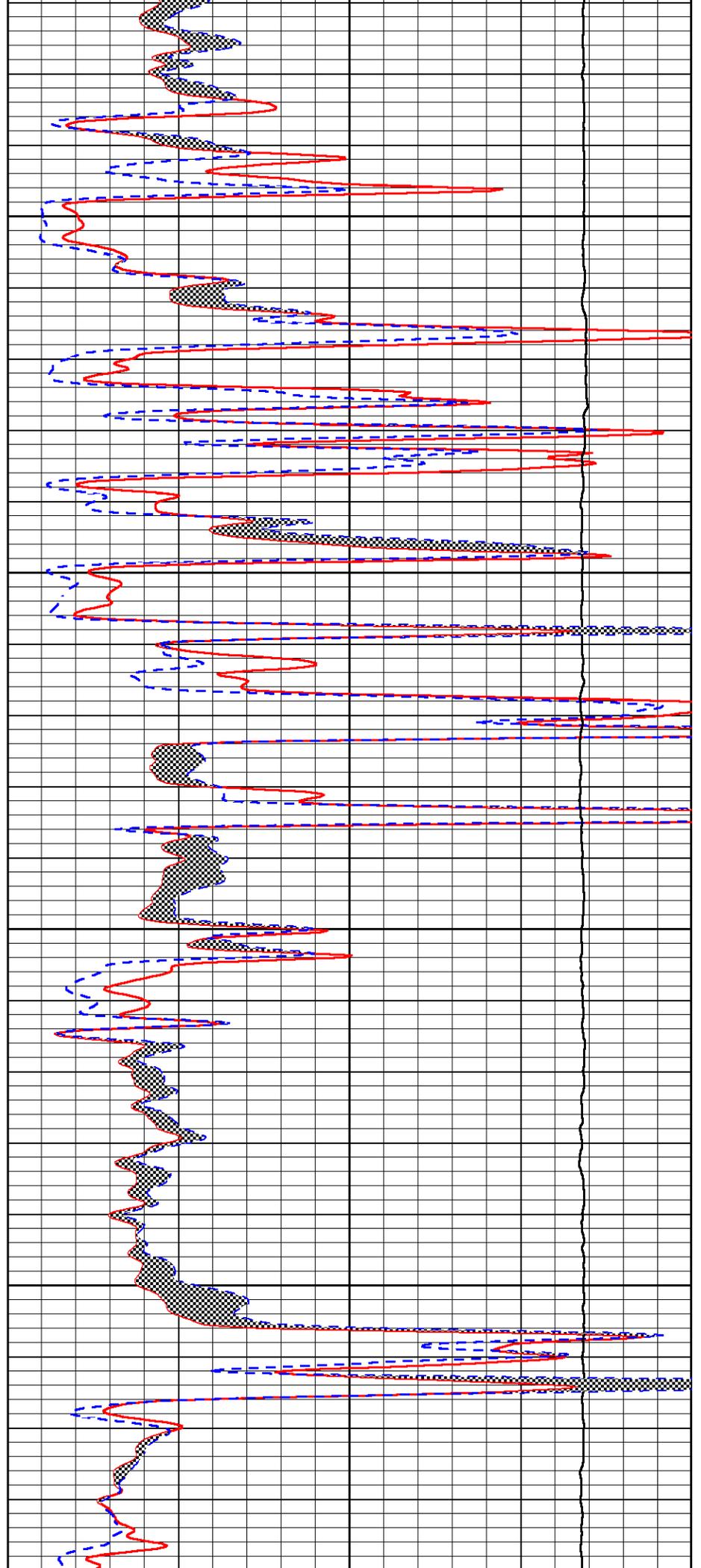


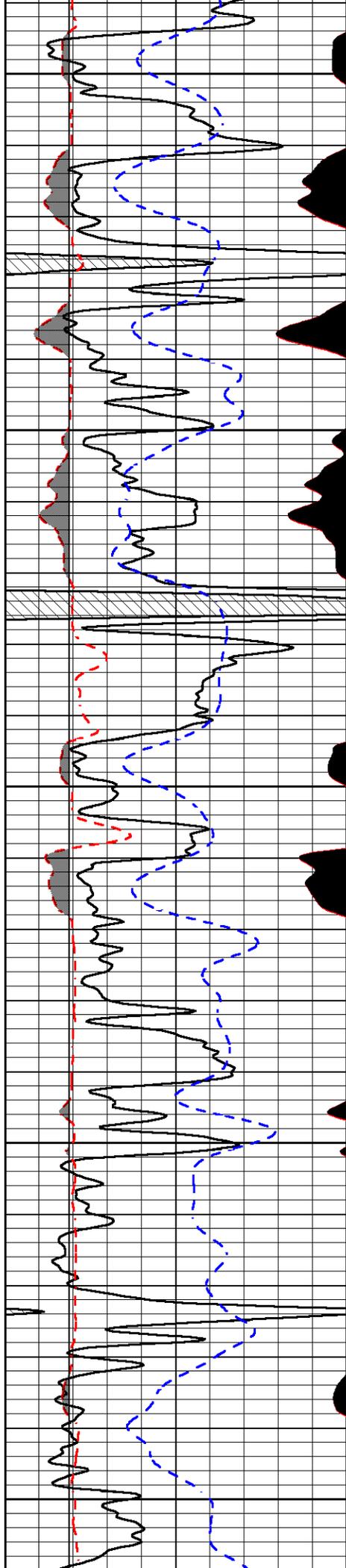
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3450

3500

3550





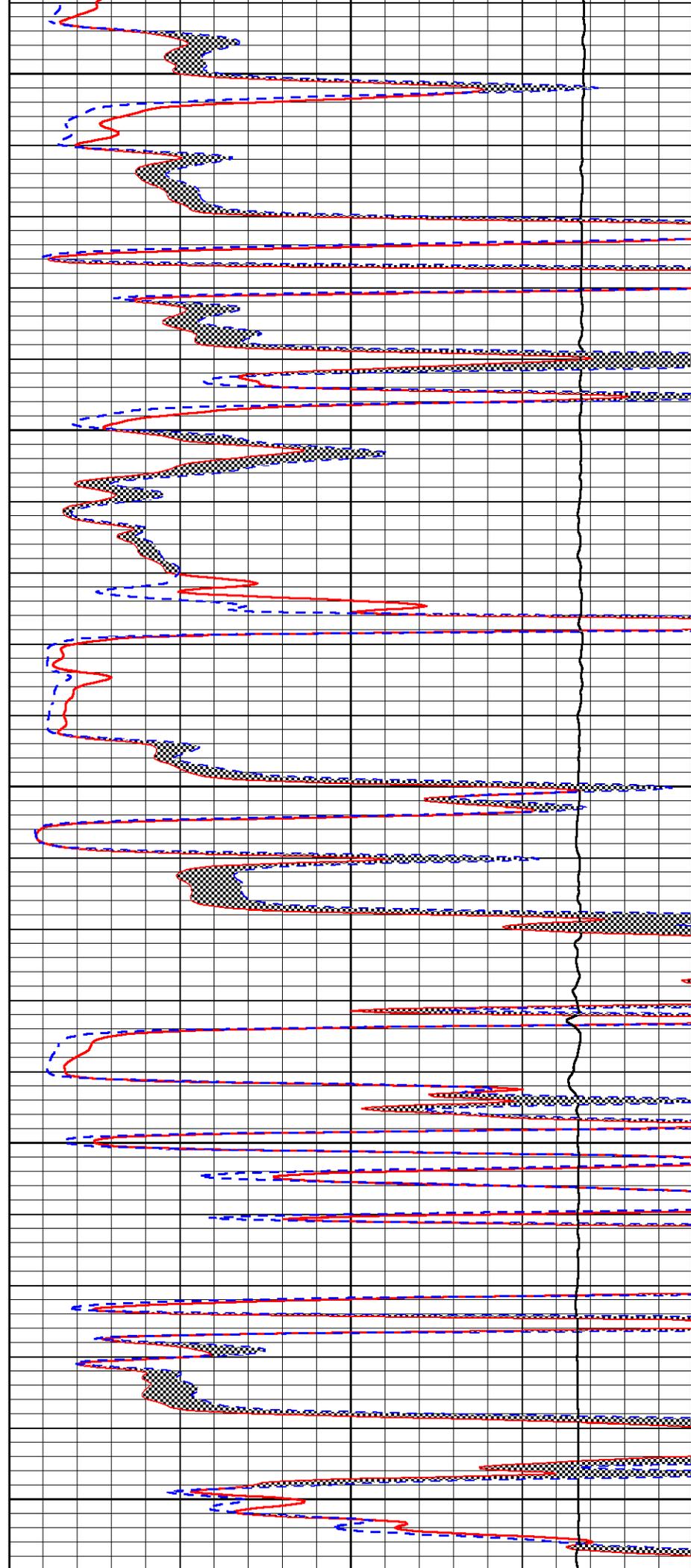
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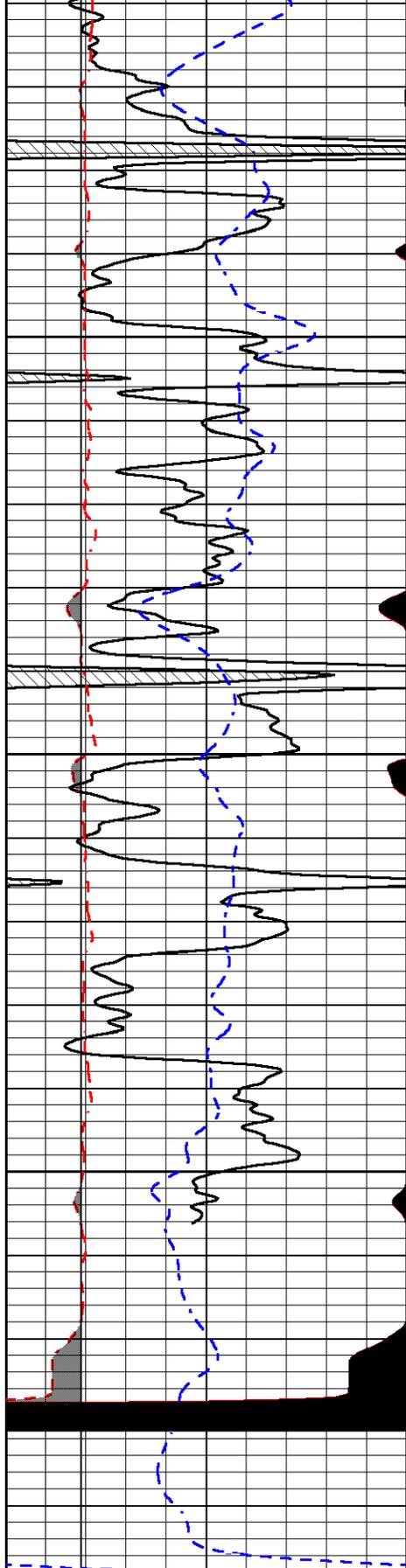
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3700

3750

3800



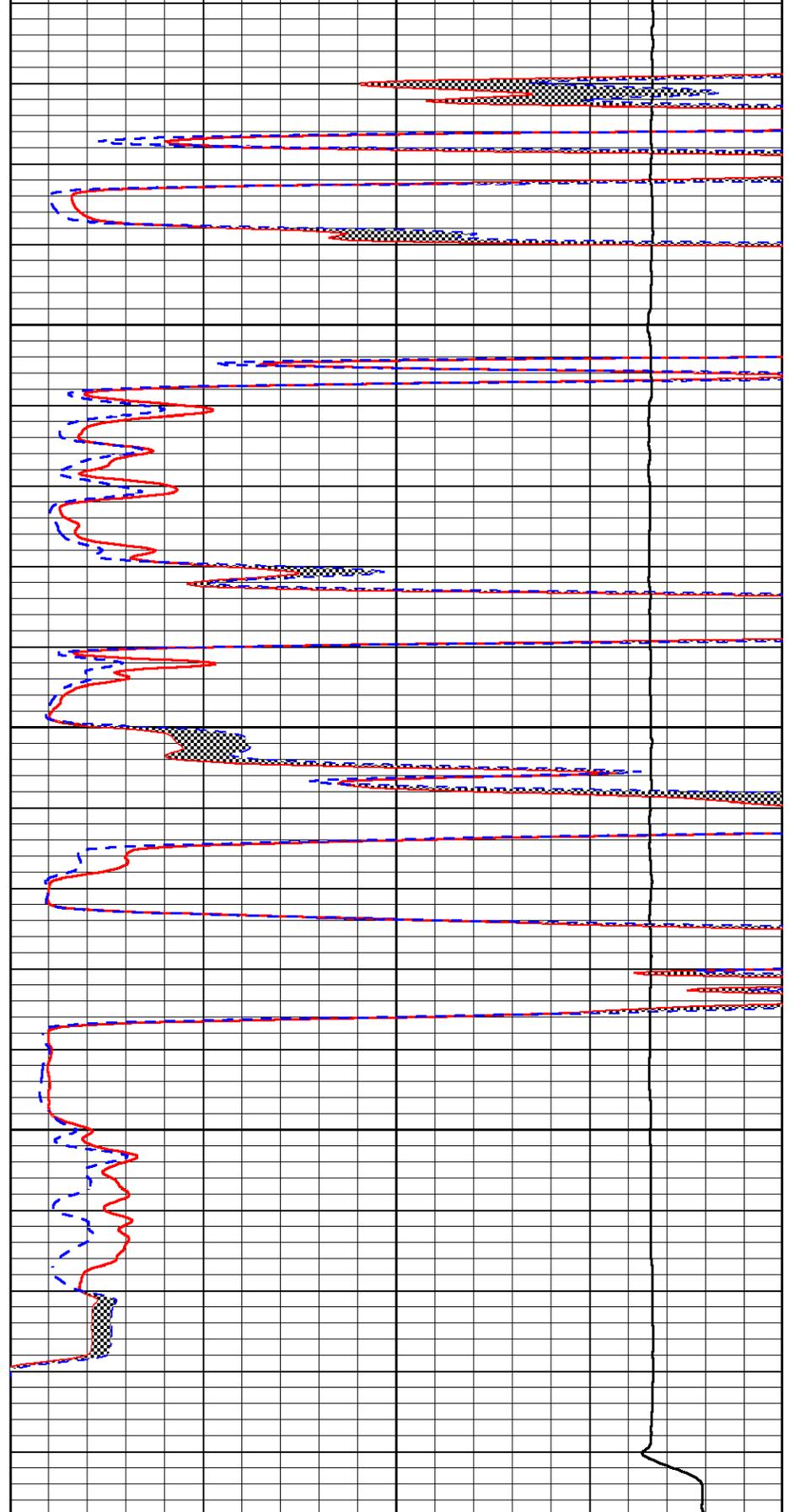


0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

3850

3900

3950



0	Micro Inverse 1 X 1 (Ohm-m)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0



REPEAT SECTION

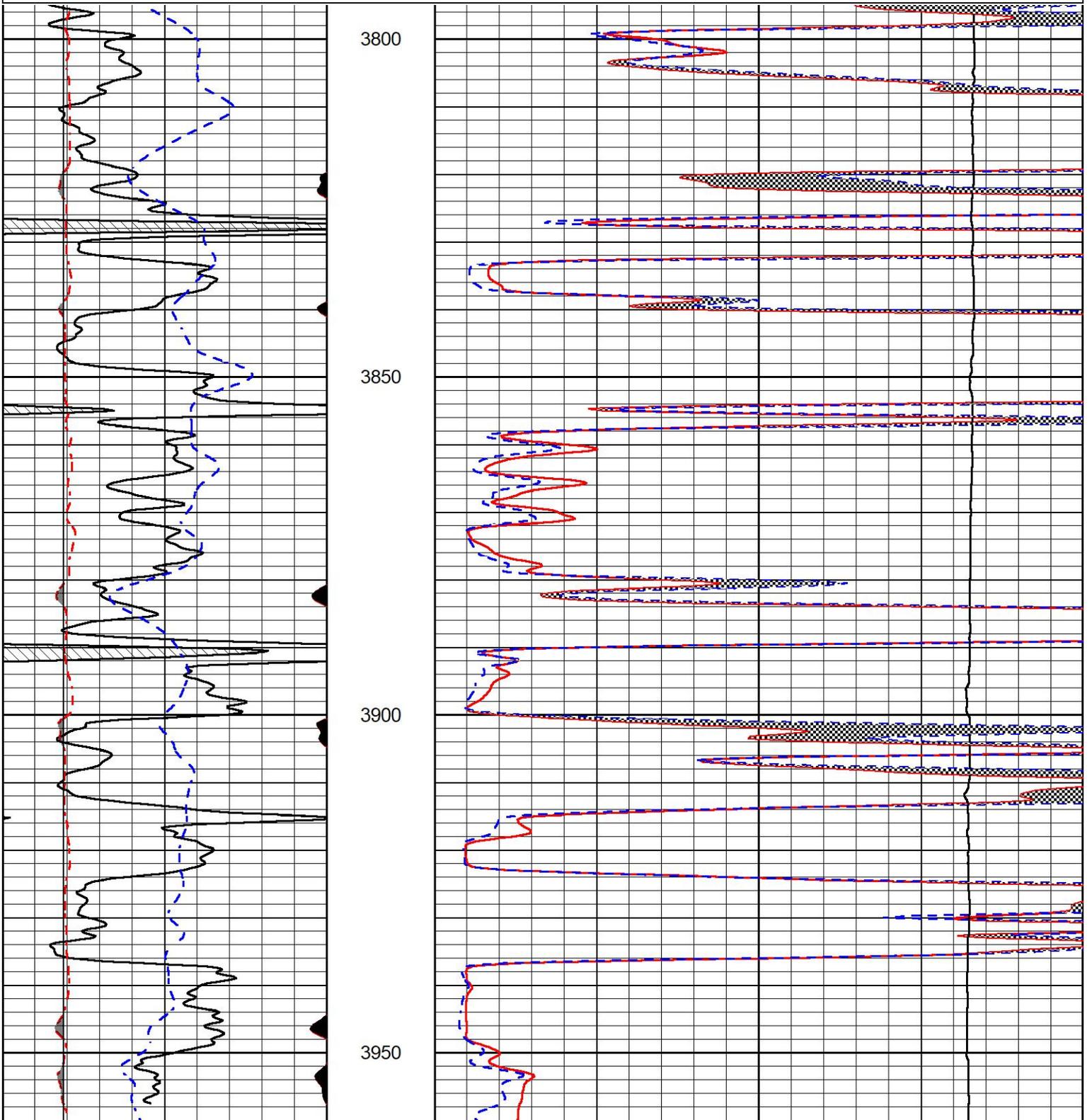


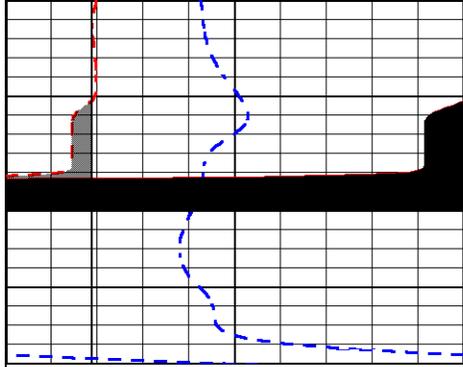
# REPEAT PASS

Database File castle\_kennedy\_1.db  
 Dataset Pathname stackml/pass2.1  
 Presentation Format \_micro  
 Dataset Creation Thu Jun 06 00:37:11 2024  
 Charted by Depth in Feet scaled 1:240

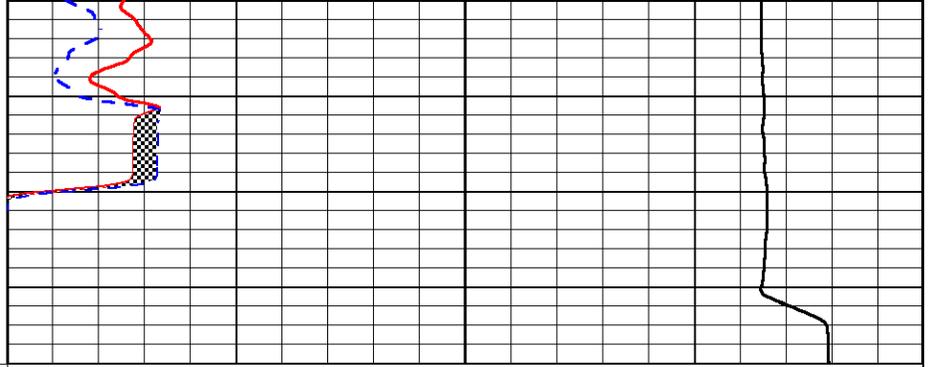
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0





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)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0

### Calibration Report

Database File: castle\_kennedy\_1.db  
 Dataset Pathname: stackml/pass3.1  
 Dataset Creation: Thu Jun 06 01:12:34 2024

### Dual Induction Calibration Report

Serial-Model: 507-M&W  
 Surface Cal Performed: Fri Jul 14 14:17:56 2023

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.450	-79.000

### Microlog Calibration Report

Serial-Model: 401-PSIML  
 Performed: Wed Apr 24 15:49:52 2024

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	5900.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	8500.0000	-0.2000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.1200

### Compensated Density Calibration Report

Serial-Model: 307-25-M&W  
 Source #: 20762B  
 Master Calibration Performed: Fri May 17 03:36:26 2024

### Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	4451.71	5304.48	cps
Aluminum	2.560	g/cc	978.26	3596.47	cps

Spine Angle = 75.62

Density/Spine Ratio = 0.563

	Size		Reading
Small Ring	6.00	in	1.16
Large Ring	18.00	in	1.01

**Compensated Neutron Calibration Report**

Serial Number: 207  
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: 102  
Tool Model: M&W  
Performed: Fri May 17 01:58:13 2024

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps

	<b>Company</b>	Castle Resources Inc.
	<b>Well</b>	Kennedy 1
	<b>Field</b>	Farber East
	<b>County</b>	Sheridan
	<b>State</b>	Kansas