



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company Castle Resources, Inc.			
Well	Juenemann A #1		
Field	Dellvale		
County	Norton		
State	Kansas		
Company Castle Resources, Inc.			
Well	Juenemann A #1		
Field	Dellvale		
County	Norton		
State	Kansas		
Location:	API #: 15-137-20771-00-00		
1320 FSL & 660 FEL			
SEC 29 TWP 3S RGE 24W	CNL/CDL DIL		
Permanent Datum	Ground Level	Elevation	2360
Log Measured From	Kelly Bushing	K.B.	2365
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2360
Date	5/14/2024		
Run Number	One		
Depth Driller	3715		
Depth Logger	3708		
Bottom Logged Interval	3707		
Top Log Interval	3200		
Casing Driller	8.625 @ 220		
Casing Logger	207		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1000		
Density / Viscosity	8.7	48	
pH / Fluid Loss	10.1	6.4	
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.80 @ 72		
Rmt @ Meas. Temp	0.60 @ 72		
Rmc @ Meas. Temp	1.08 @ 72		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.51 @ 113		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	113		
Equipment Number	110		
Location	HAYS		
Recorded By	D. Schmidt		
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.

Norton,
West to Rd 383,
South to 8 Rd, 1 South,
West and North 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: D. Schmidt
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_juenemann a1.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 113	in 4.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m -6	mmho/m 0	mV 289	degF 60	Off	ft 378

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



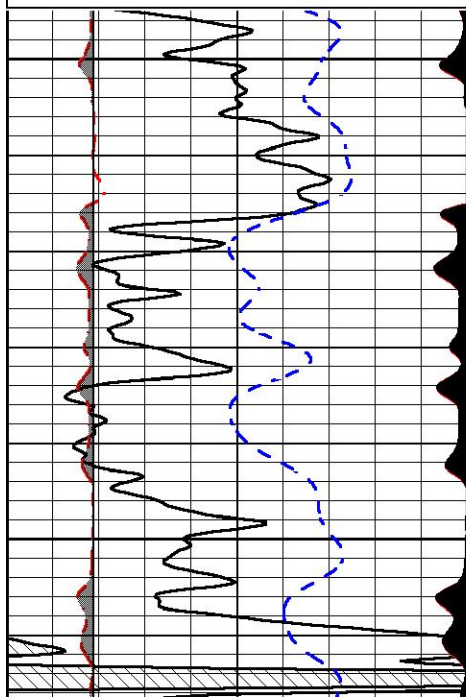
DETAIL SECTION

MAIN PASS

Database File castle_juenemann a1.db
Dataset Pathname stkml/pass4.1
Presentation Format _micro
Dataset Creation Tue May 14 10:11:31 2024
Charted by Depth in Feet scaled 1:240

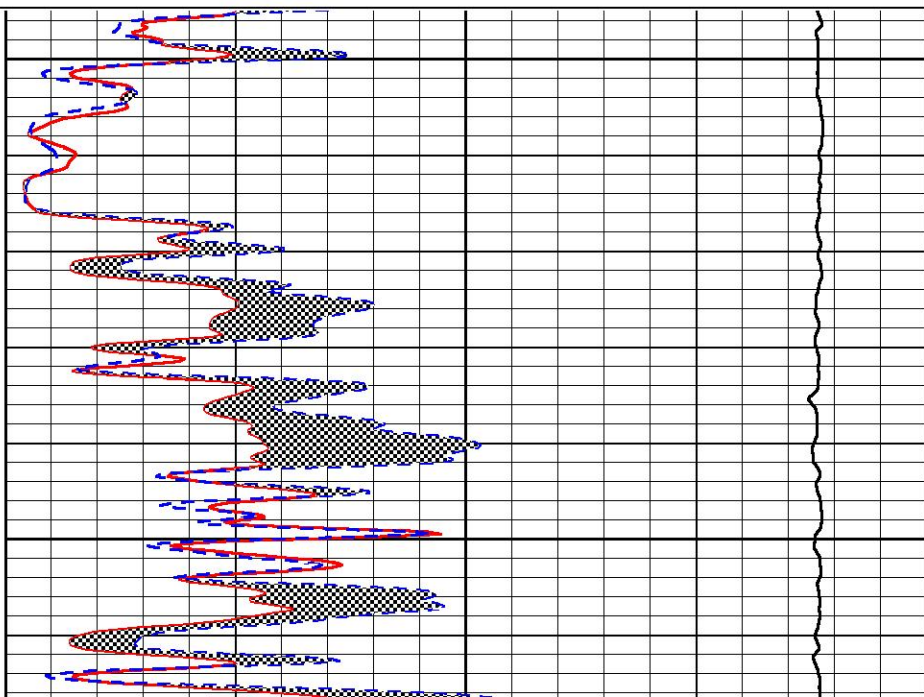
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

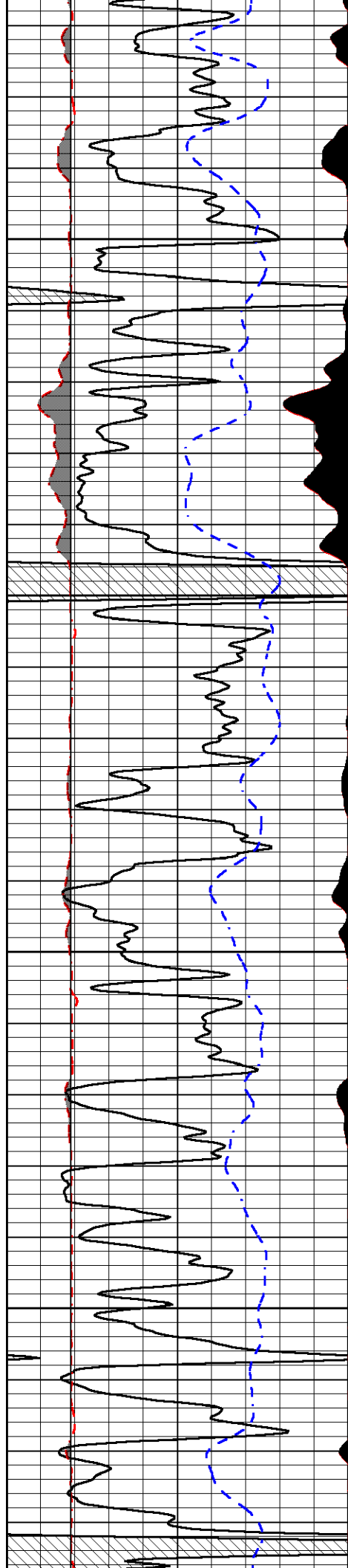
0	Micro Inverse 1 X 1 (Ohm-m)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0



3200

3250



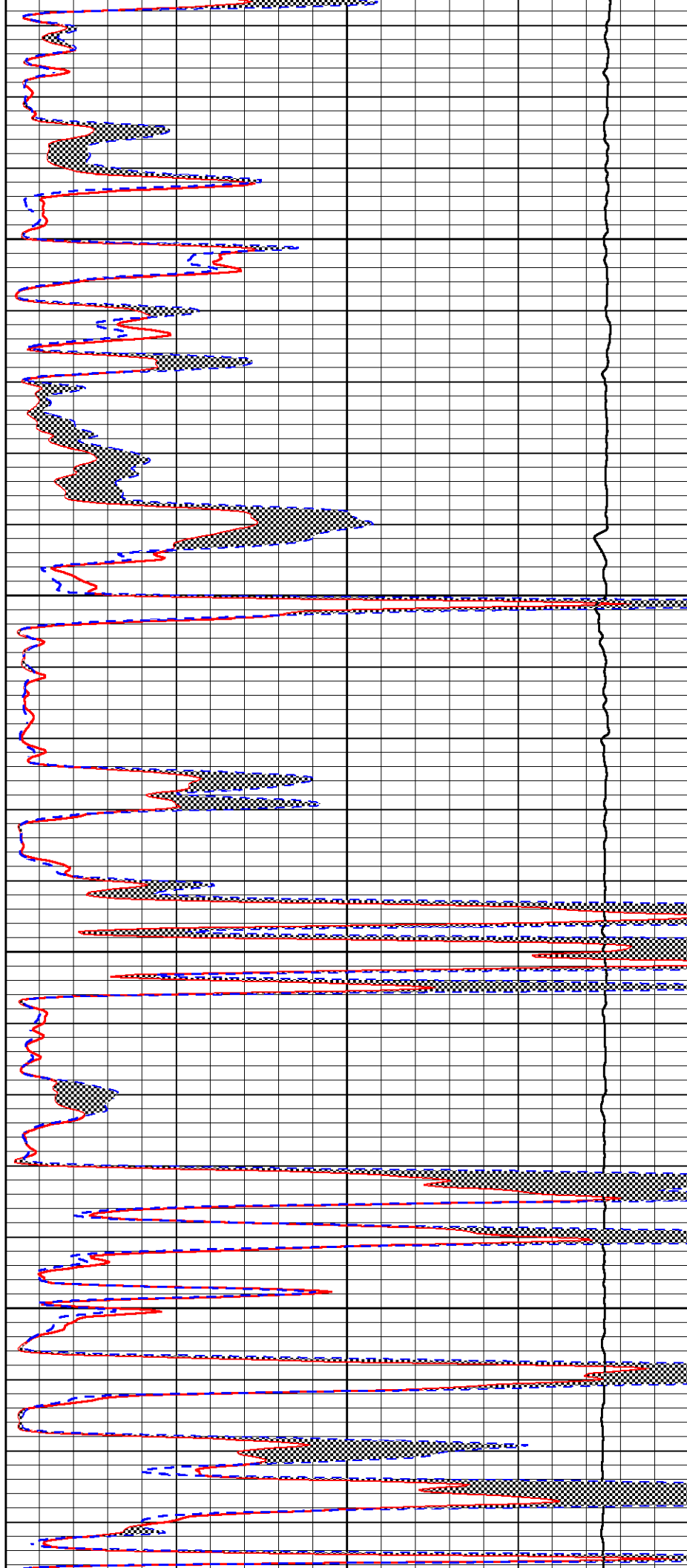


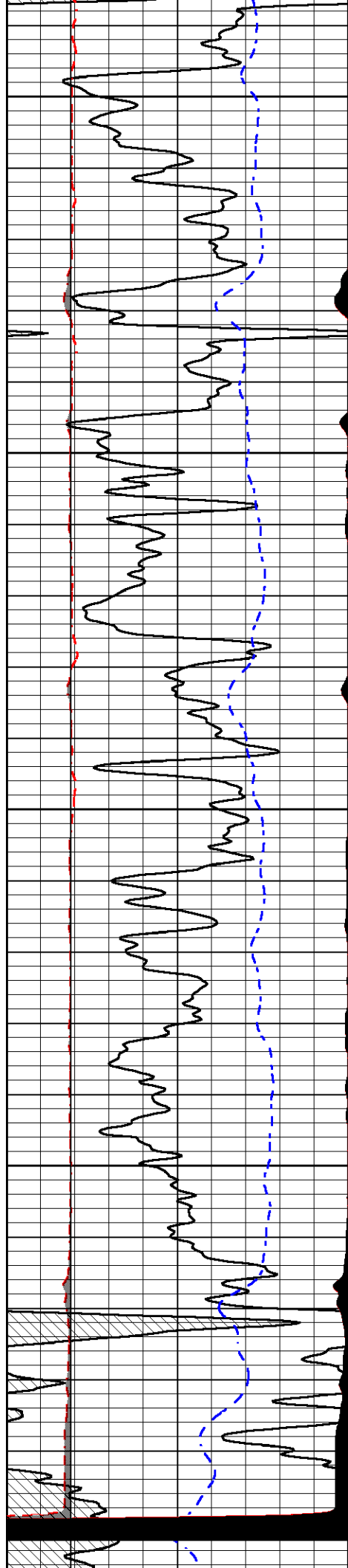
3300

3350

3400

3450





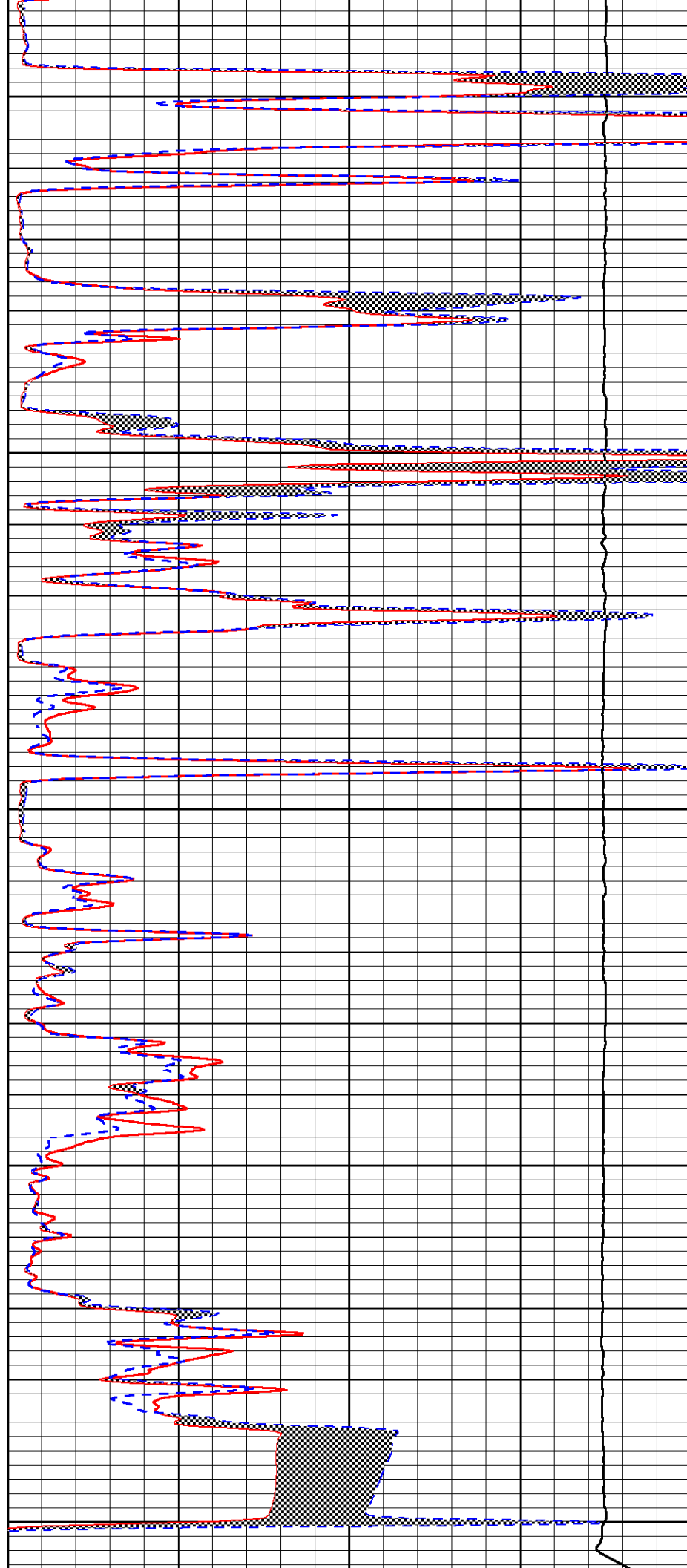
3500

3550

3600

3650

3700



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



MIDWEST WIRELINE

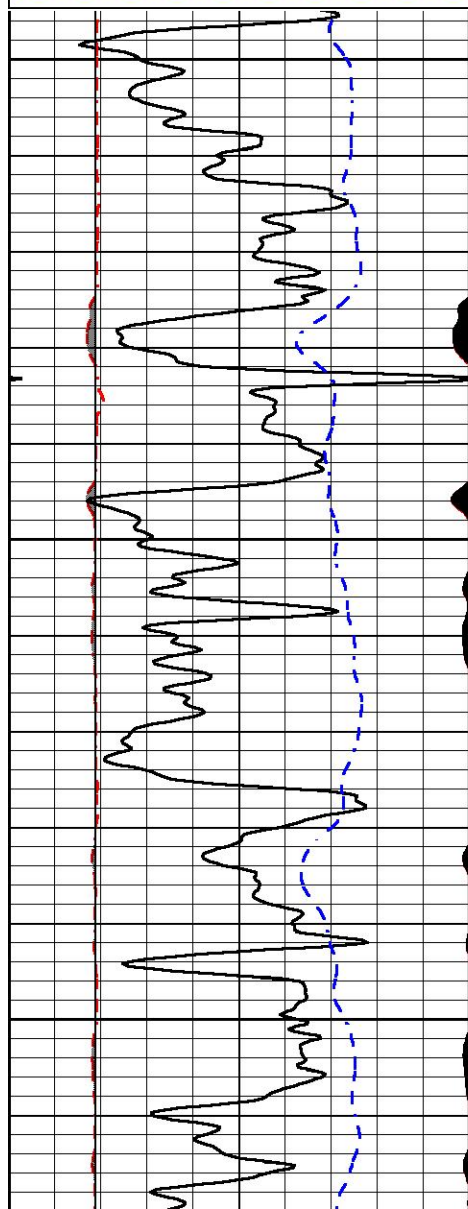
REPEAT SECTION

REPEAT PASS

Database File castle_juenemann a1.db
Dataset Pathname stkml/pass2.1
Presentation Format _micro
Dataset Creation Tue May 14 08:39:24 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

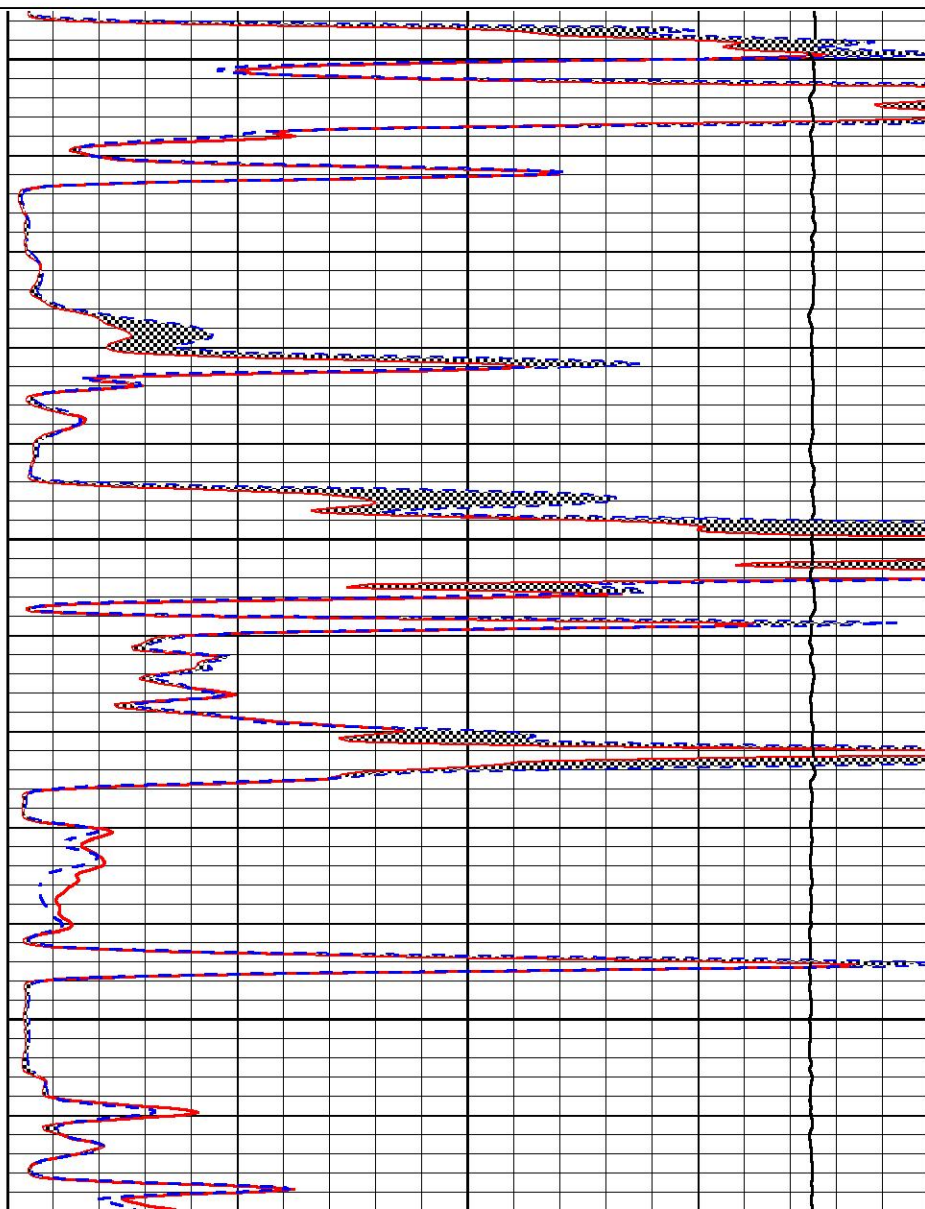
0	Micro Inverse 1 X 1 (Ohm-m)	20
0	Micro Normal 2" (Ohm-m)	20
10000	Line Weight (lb)	0

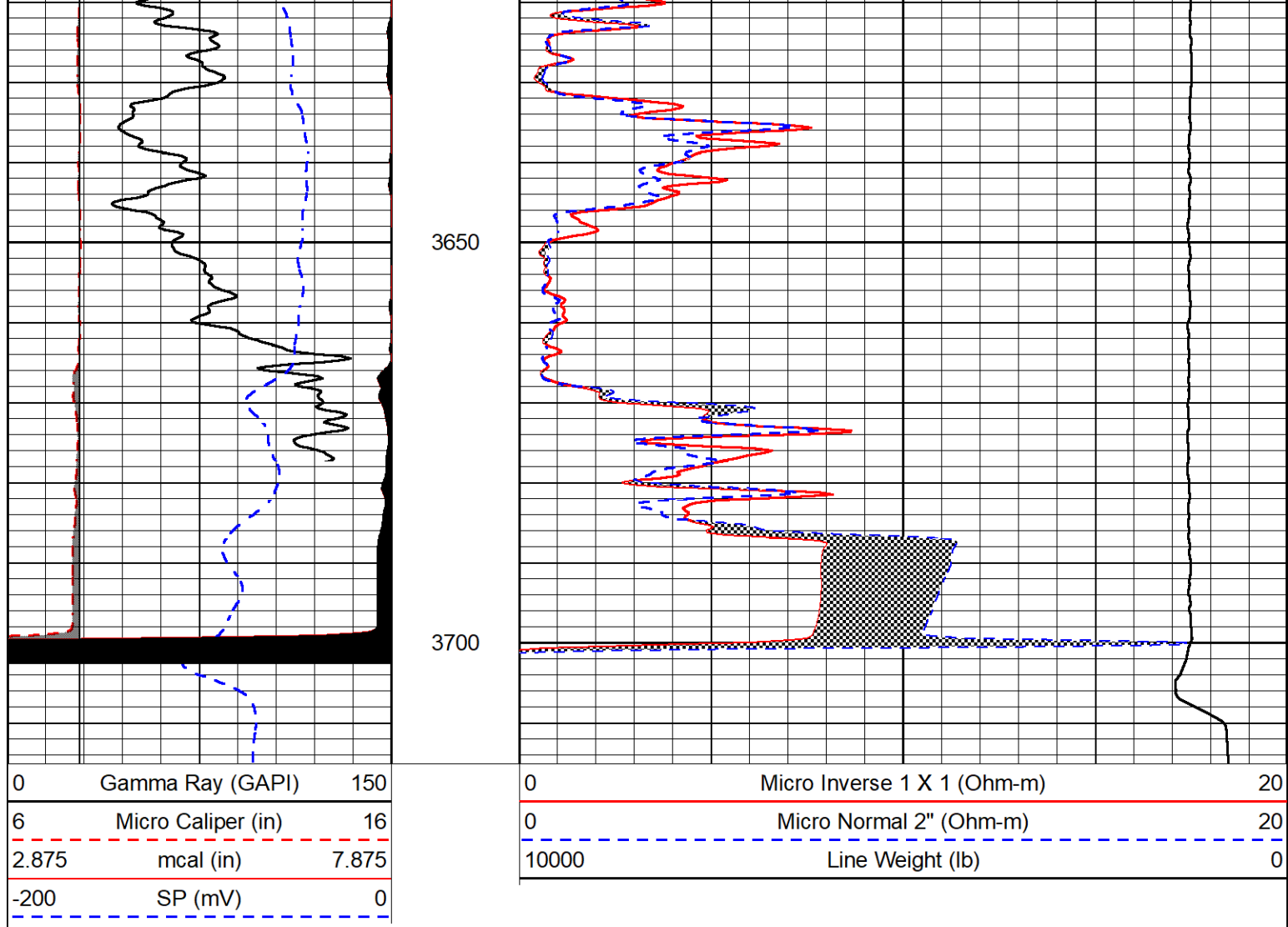


3500

3550

3600





Calibration Report

Database File castle_juenemann a1.db
Dataset Pathname stkml/pass4.1
Dataset Creation Tue May 14 10:11:31 2024

Dual Induction Calibration Report

Serial-Model: 504 HT-M&W
Surface Cal Performed: Sun Jan 28 10:54:35 2024

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	1.350	-9.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.950	-44.000

Microlog Calibration Report

Serial-Model: 402-PSI STKBL ML
Performed: Tue Feb 27 01:52:43 2024

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	7500.0000	-0.3000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	9000.0000	-0.4000

Caliper 1.0046 1.1419 5.5000 20.0000 in 50.0000 -44.6000

Compensated Density Calibration Report

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

Master Calibration

	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		

Compensated Neutron Calibration Report

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 Castle Resources, Inc.
Well Juenemann A #1
Field Dellvale
County Norton
State Kansas