



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Castle Resources, Inc.
Well Kriley #1
Field US 183 West
County Rooks
State Kansas

Company Castle Resources, Inc.

Well Kriley #1

Field US 183 West

County Rooks State Kansas

Location: API #: 15-163-24451-00-00

2221 FSL & 345 FWL

SEC 15 TWP 8S RGE 18W

Permanent Datum Ground Level Elevation 1900
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL
K.B. 1905
D.F.
G.L. 1900

Date 4/4/2022

Run Number Two

Depth Driller 3425

Depth Logger 3424

Bottom Logged Interval 3423

Top Log Interval 2800

Casing Driller 8.625 @ 220

Casing Logger 216

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8000

Density / Viscosity 9.2 44

pH / Fluid Loss 8.5 12.0

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.40 @ 60

Rmt @ Meas. Temp 0.30 @ 60

Rmc @ Meas. Temp 0.54 @ 60

Source of Rmt / Rmc CHARTS

Rm @ BHT 0.22 @ 110

Operating Rig Time 3 Hours

Max Rec. Temp. F 110

Equipment Number P-24

Location Hays

Recorded By D. Schmidt

Witnessed By Jerry Green

<<< 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.

Plainville,
North to R Rd, 1 1/2 West, 1 1/2 North, East into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

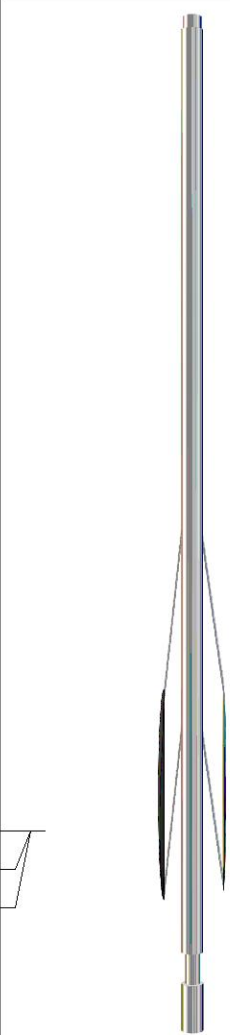
THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	1.00 1.00 1.00		ML-GO (0002G)	5.00	3.50	100.00
Dataset: castle resources_kriley 1.db: field/well/mel/pass2 Total length: 5.00 ft Total weight: 100.00 lb O.D.: 3.50 in						

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle resources_kriley 1.db
Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 110	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV -155	degF 50	Off	ft 3424

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



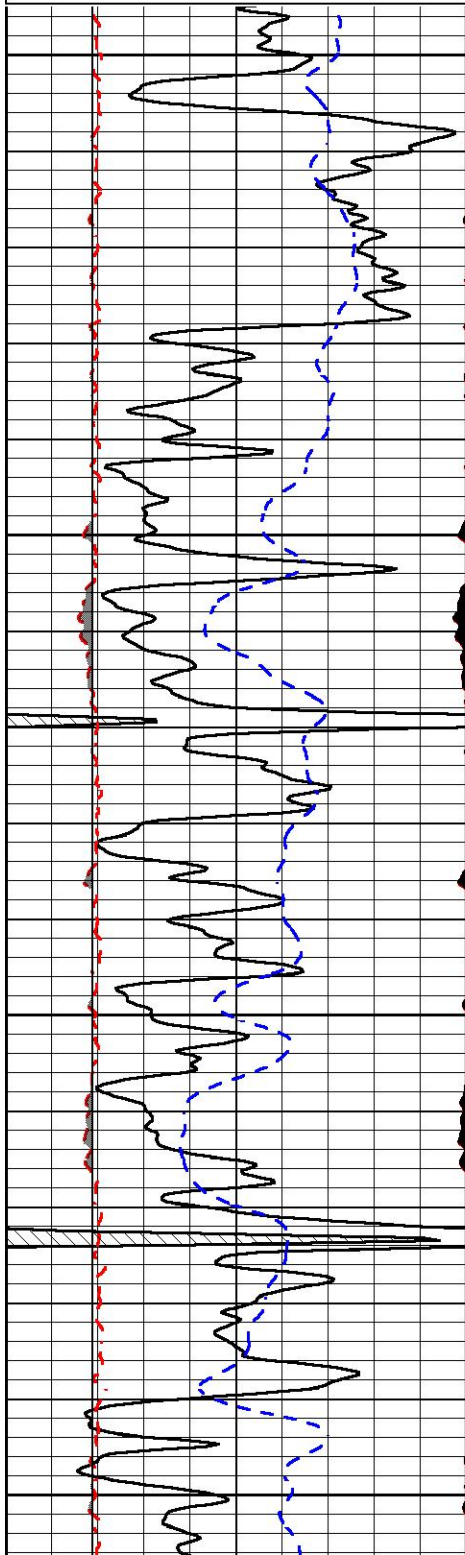
DETAIL SECTION

MAIN PASS

Database File castle_resources_kriley 1.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Mon Apr 04 23:17:34 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

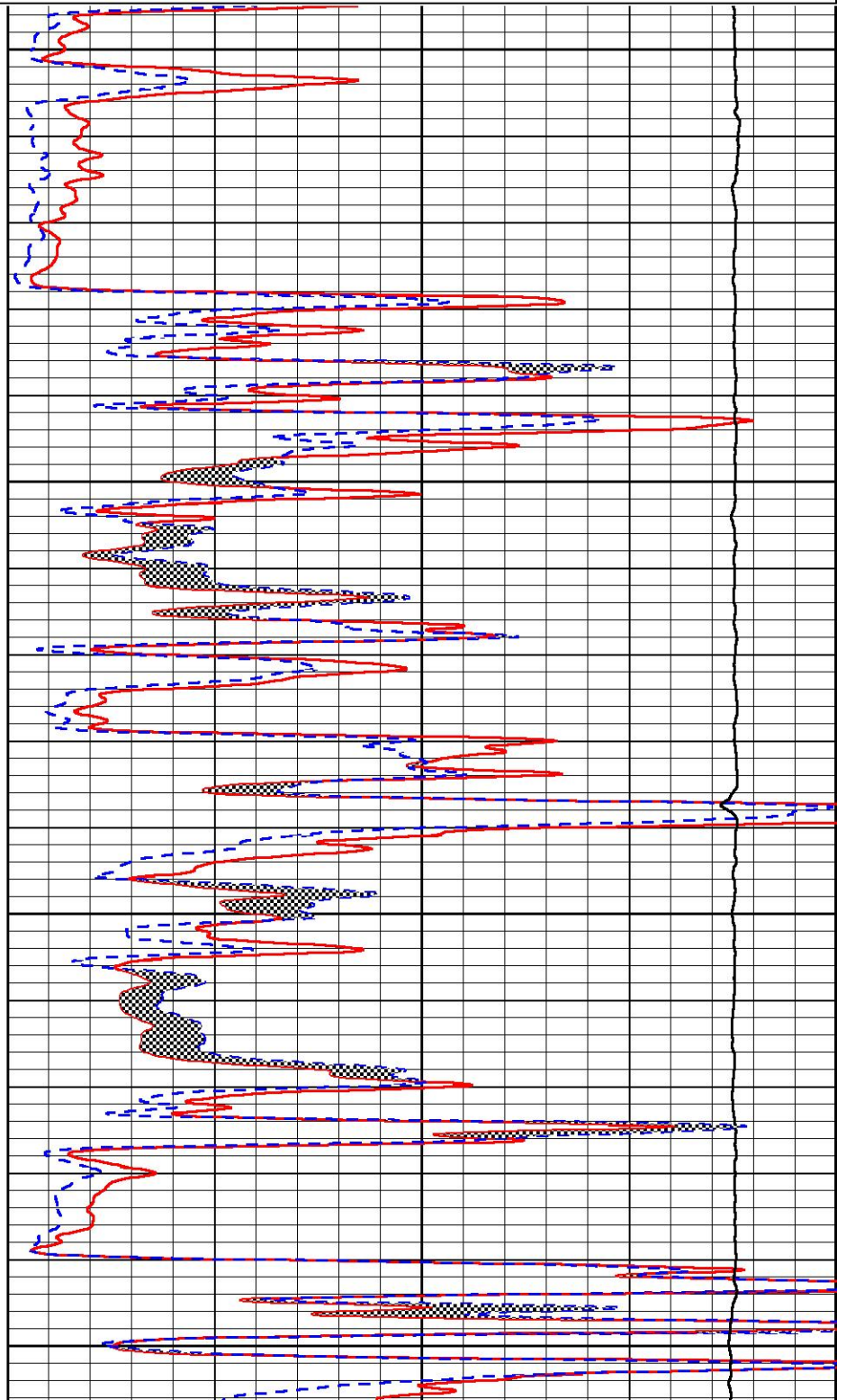


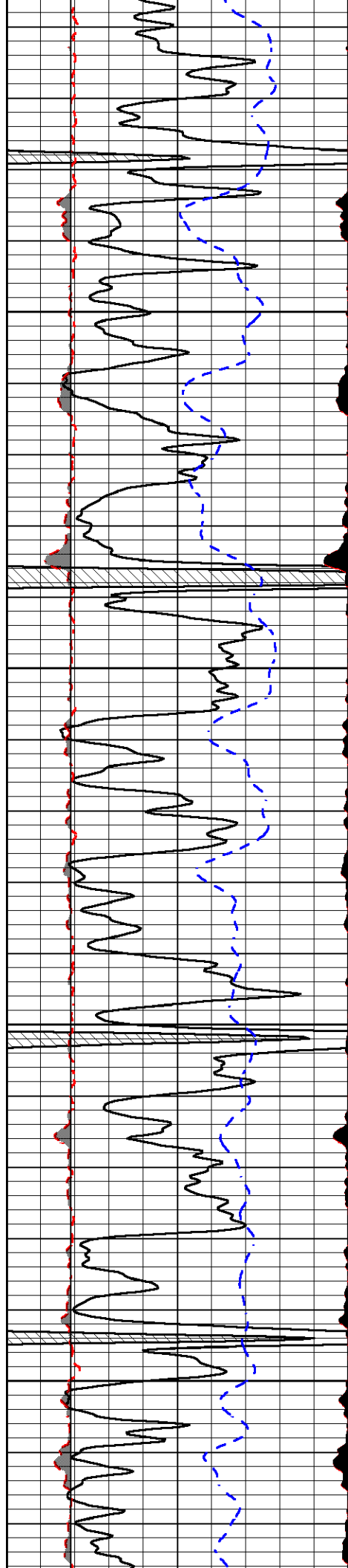
2800

2850

2900

2950



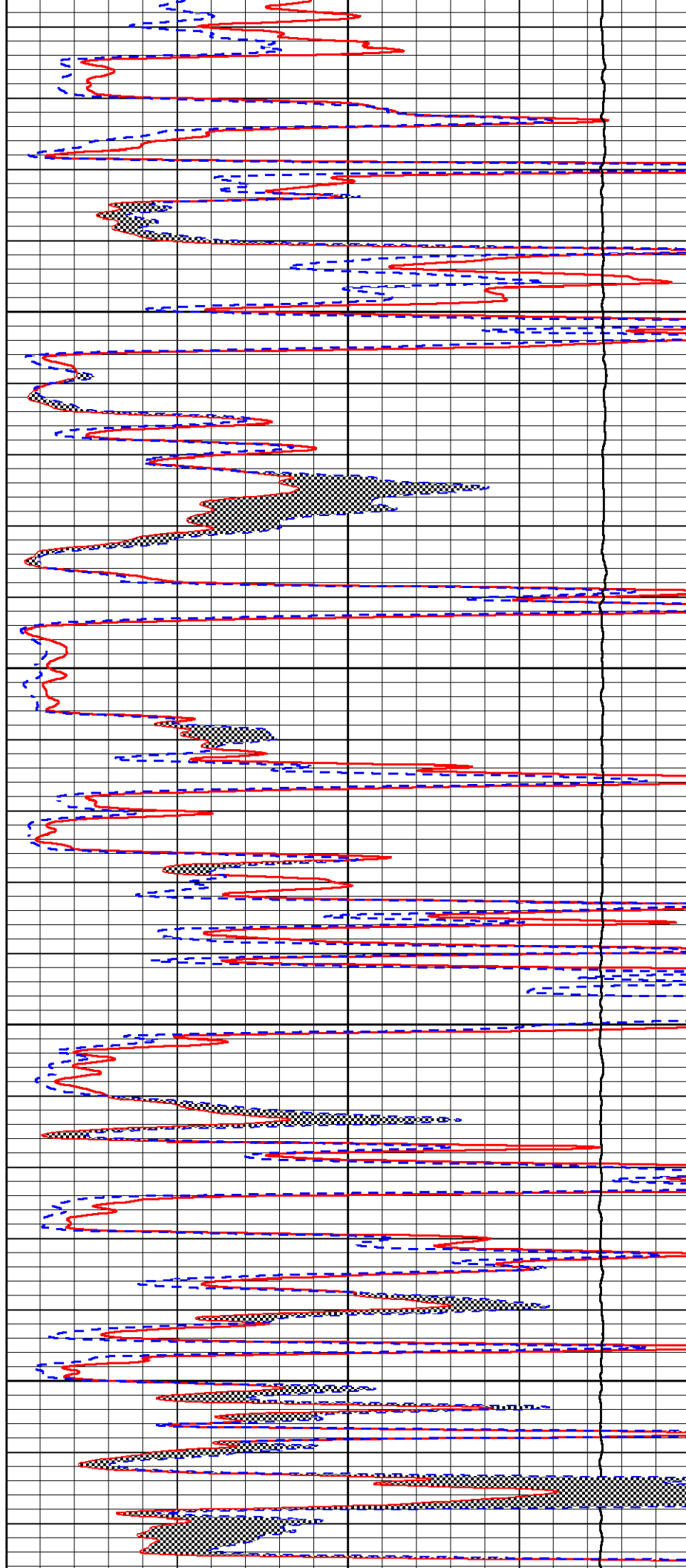


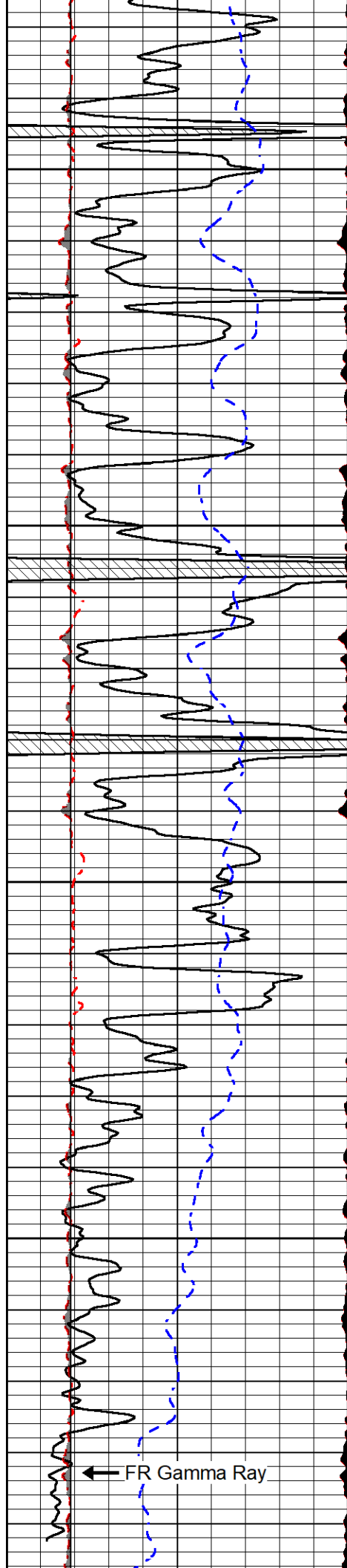
3000

3050

3100

3150



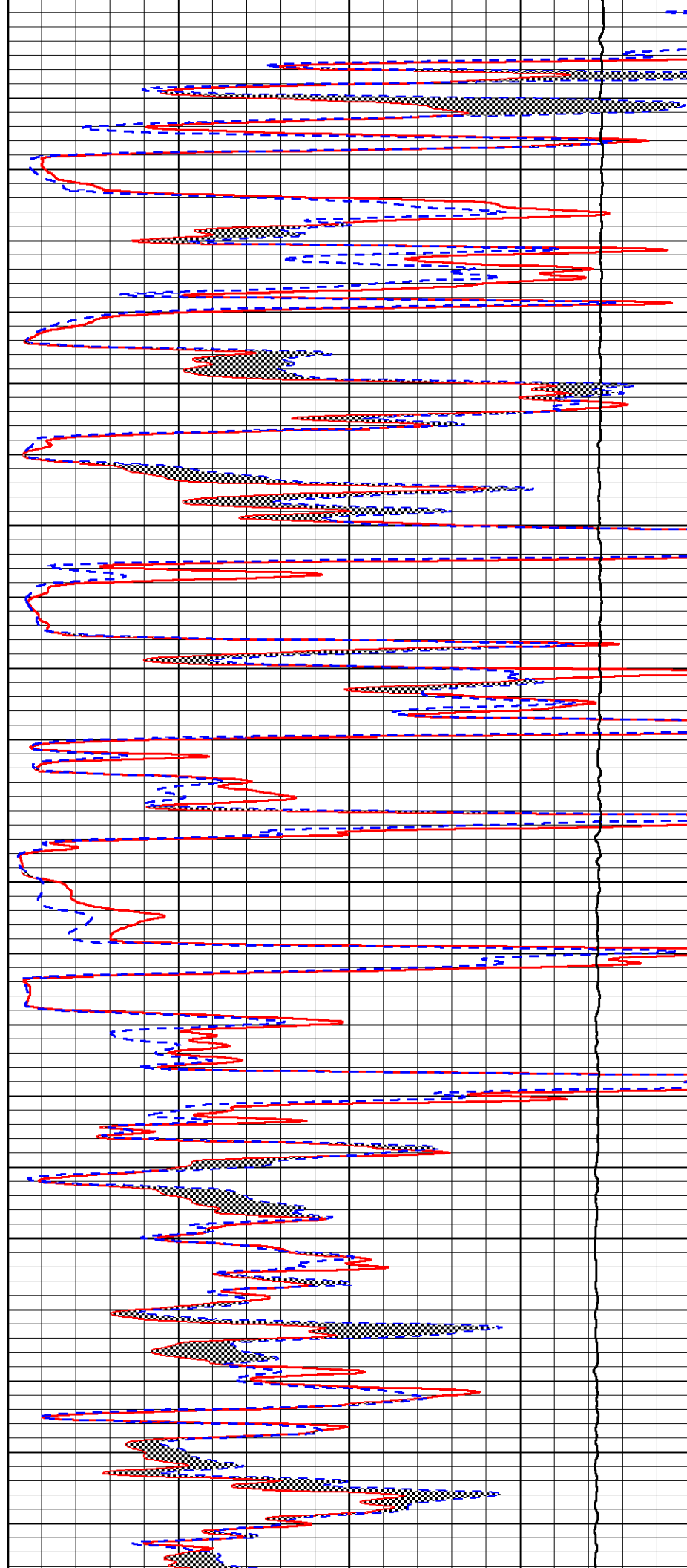


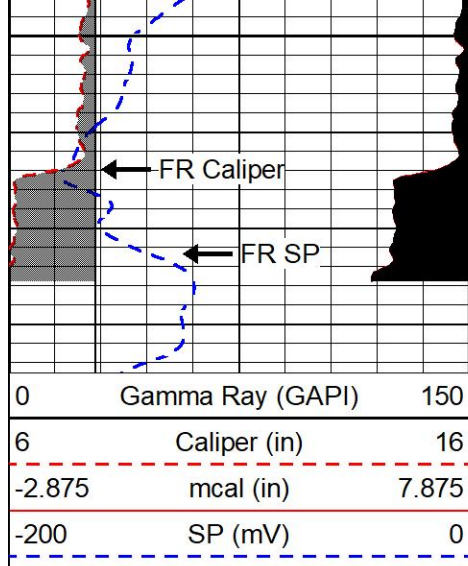
3200

3250

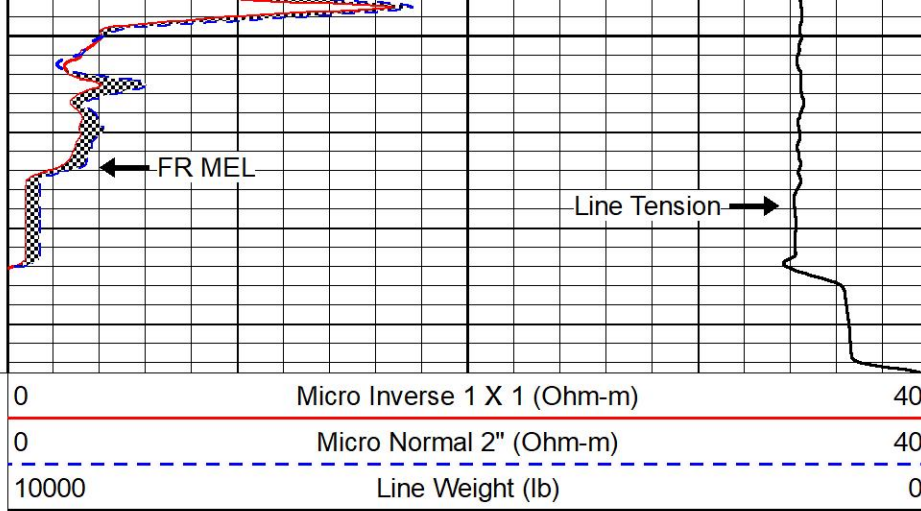
3300

3350





3400

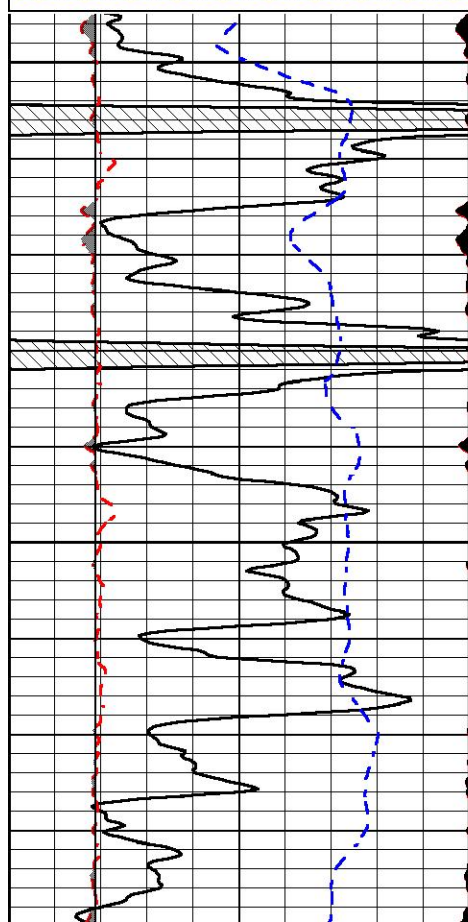
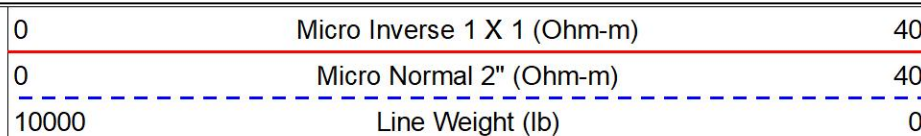
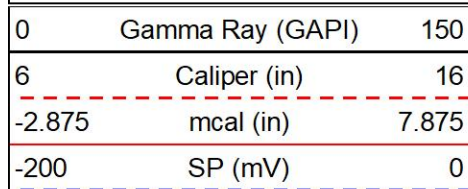


MIDWEST WIRELINE

REPEAT SECTION

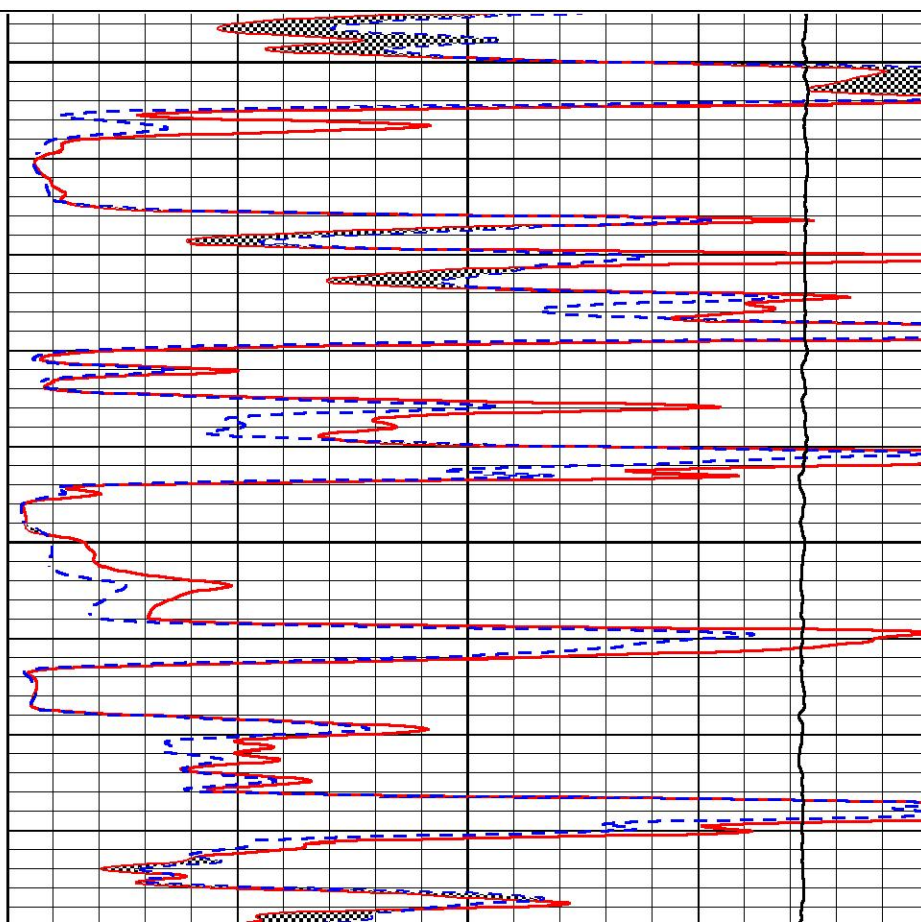
REPEAT PASS

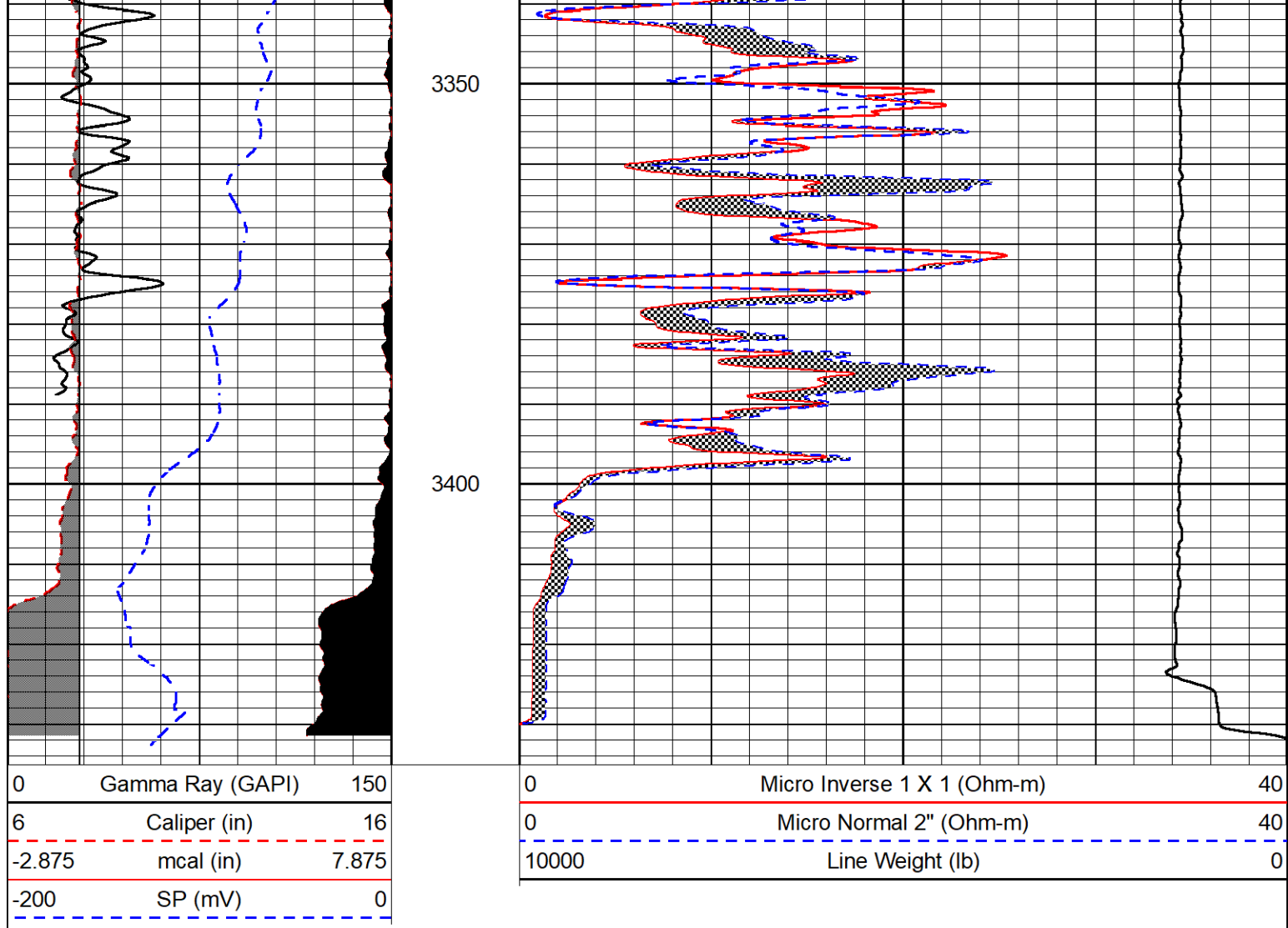
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 Dataset Pathname stkml/pass2.1
 Presentation Format _micro
 Dataset Creation Mon Apr 04 23:15:07 2022
 Charted by Depth in Feet scaled 1:240



3250

3300





Calibration Report							
Database File	castle resources_kriley 1.db						
Dataset Pathname	stkml/pass3.1						
Dataset Creation	Mon Apr 04 23:17:34 2022						
Dual Induction Calibration Report							
Serial-Model:				502 HT-M&W			
Surface Cal Performed:				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	-36.000
Medium	113.335 1585.690	0.000	442.000	mmho/m	0.350	-13.000	
Microlog Calibration Report							
Serial-Model:				402-PSIML			
Performed:				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	24000.0000	-0.8000
Inverse	0.0000 1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.0000	

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
 Source #: 20762B
 Master Calibration Performed: 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	1.75		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial-Model: 207-MW-M&W
 Source #: 100046B
 Master Calibration Performed: 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: 101
 Tool Model: M&W
 Performed: Mon Jan 24 19:14:46 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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 County Rooks
 State Kansas