



DUAL COMP POROSITY 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

Other Services

2221 FSL & 345 FWL
SEC 15 TWP 8S RGE 18W

DIL/MEL

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

K.B. 1905
D.F.
G.L. 1900

Date 4/4/2022

Run Number One

Type Log CNL/CDL

Depth Driller 3425

Depth Logger 3424

Bottom Logged Interval 3395

Top Logged Interval 2800

Type Fluid In Hole Chemical

Salinity, PPM CL 8000

Density 9.2

Level Full

Max. Rec. Temp. F 110

Operating Rig Time 3 Hours

Equipment -- Location P-24 Hays

Recorded By D. Schmidt

Witnessed By Jerry Green

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	220	8.625	23	0	220
Two	7.875	220	TD				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline Services, 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:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle resources_kriley 1.db
Dataset field/well/stkml/pass3.11/_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



MIDWEST WIRELINE

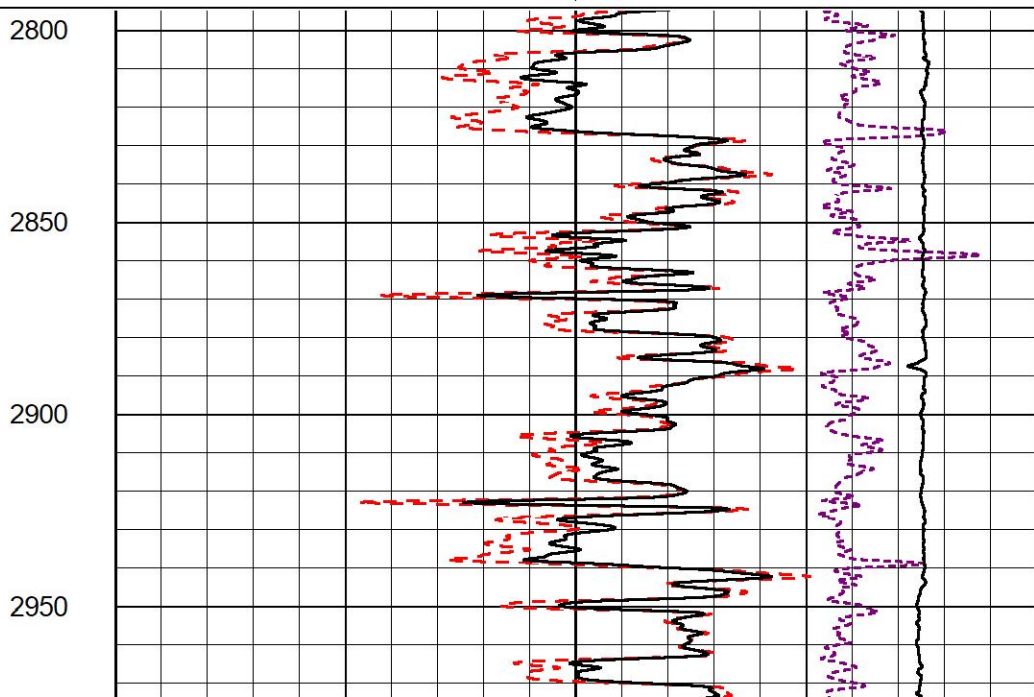
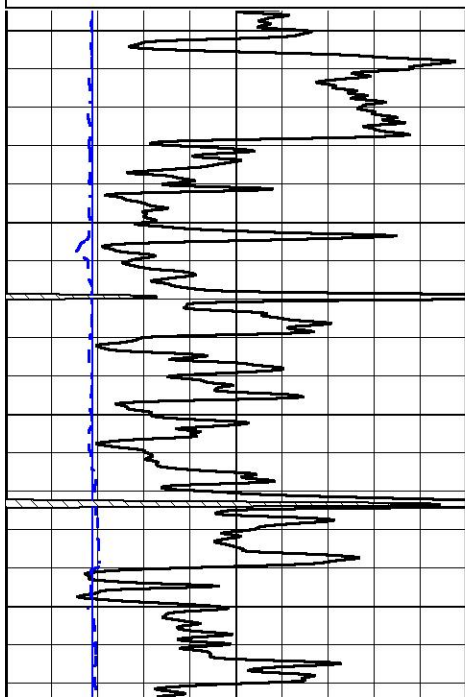
2" SCALE BULK DENSITY

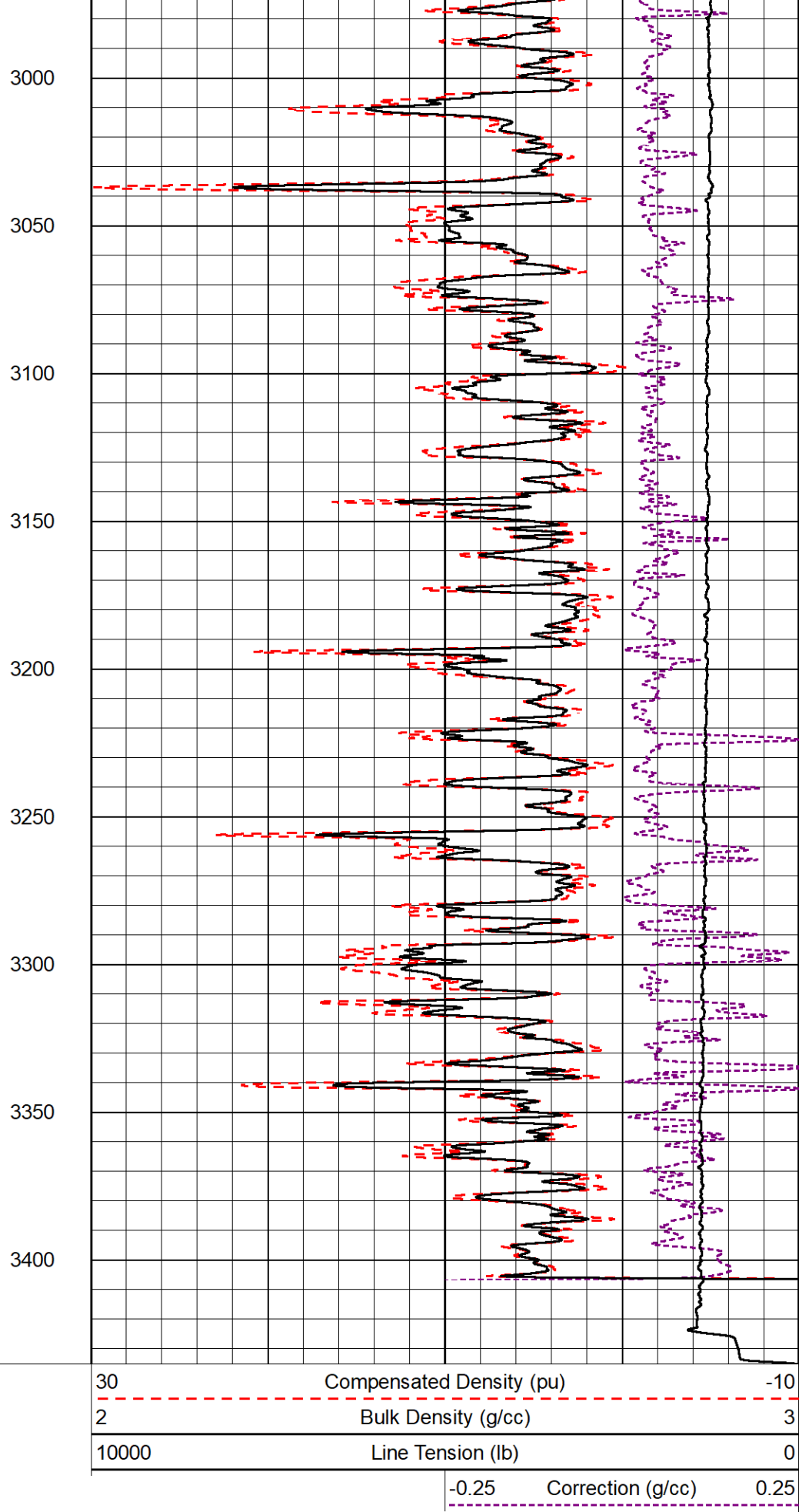
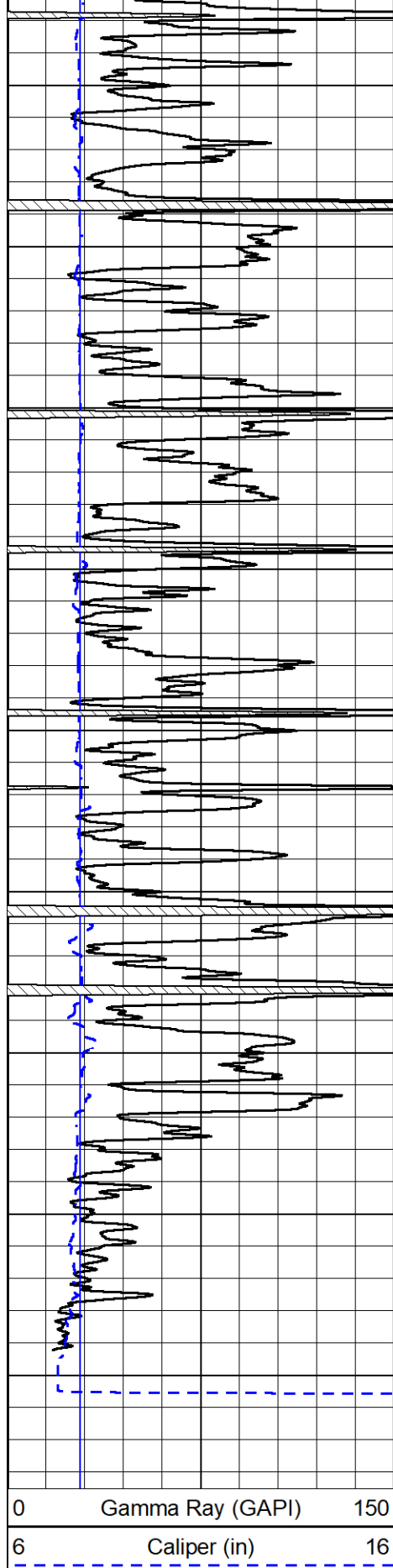
MAIN PASS

Database File castle resources_kriley 1.db
Dataset Pathname stkml/pass3.2
Presentation Format _cdl
Dataset Creation Mon Apr 04 23:18:58 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





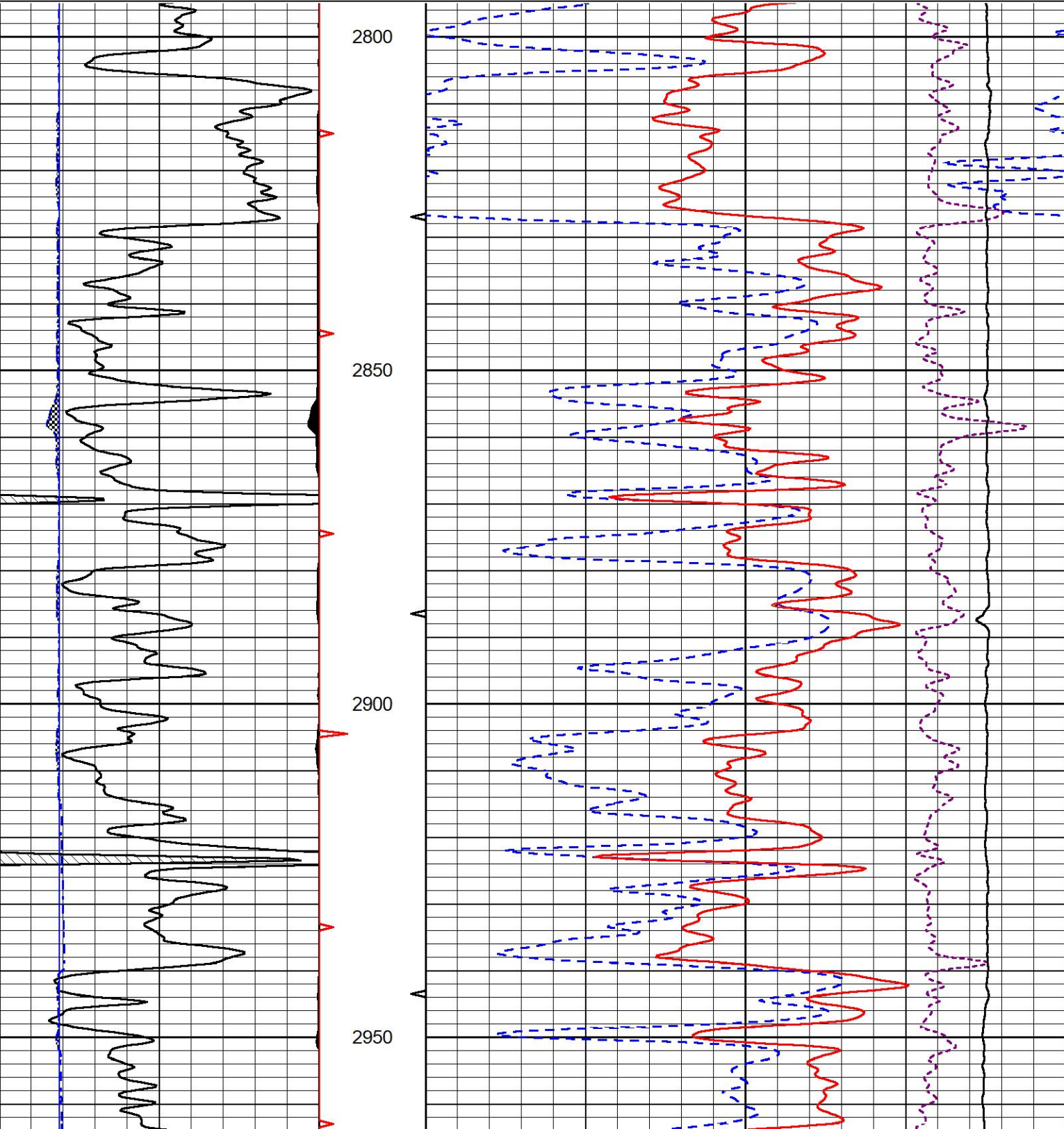
DETAIL SECTION

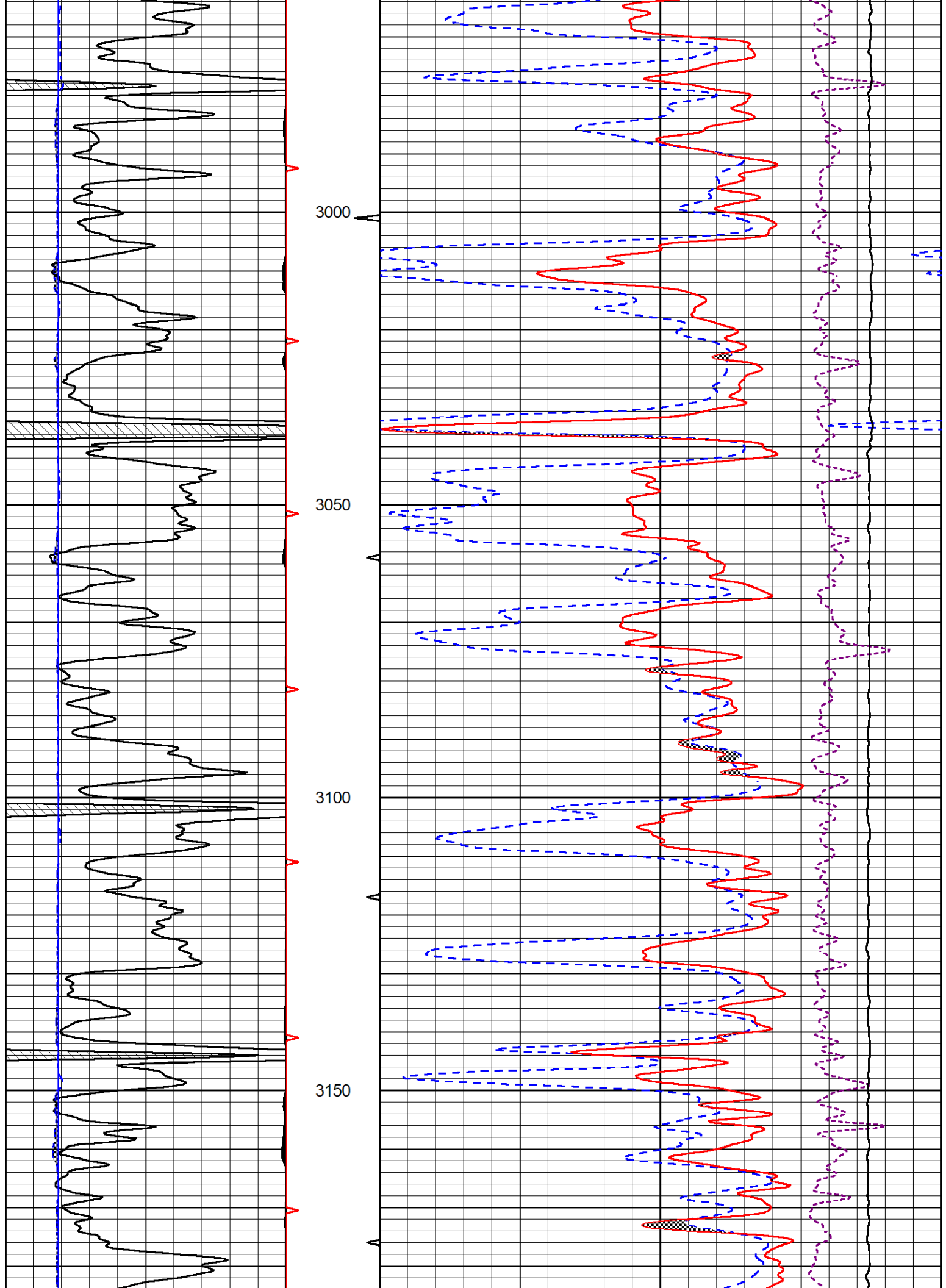


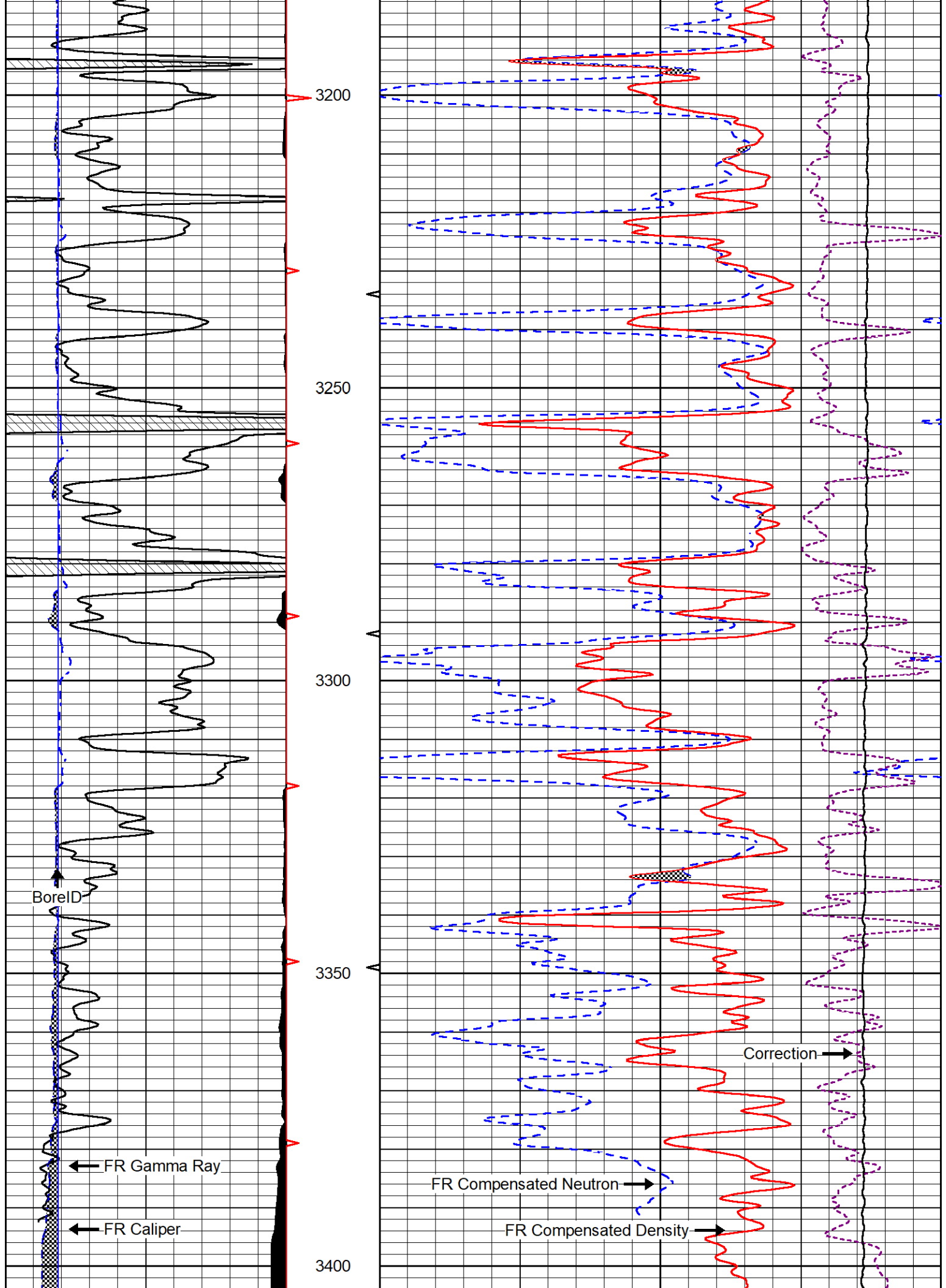
MAIN PASS

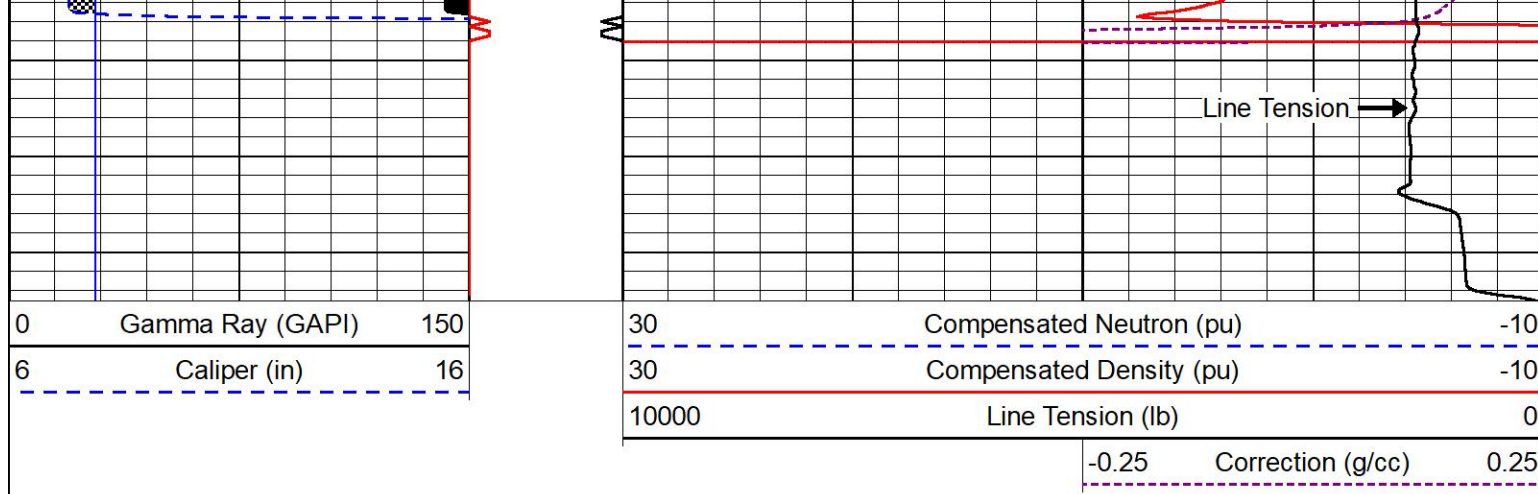
Database File castle resources_kriley 1.db
Dataset Pathname stkml/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Mon Apr 04 23:17:34 2022
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10
6	Caliper (in)	16	30	Compensated Density (pu)	-10
			10000	Line Tension (lb)	0
				-0.25	Correction (g/cc) 0.25





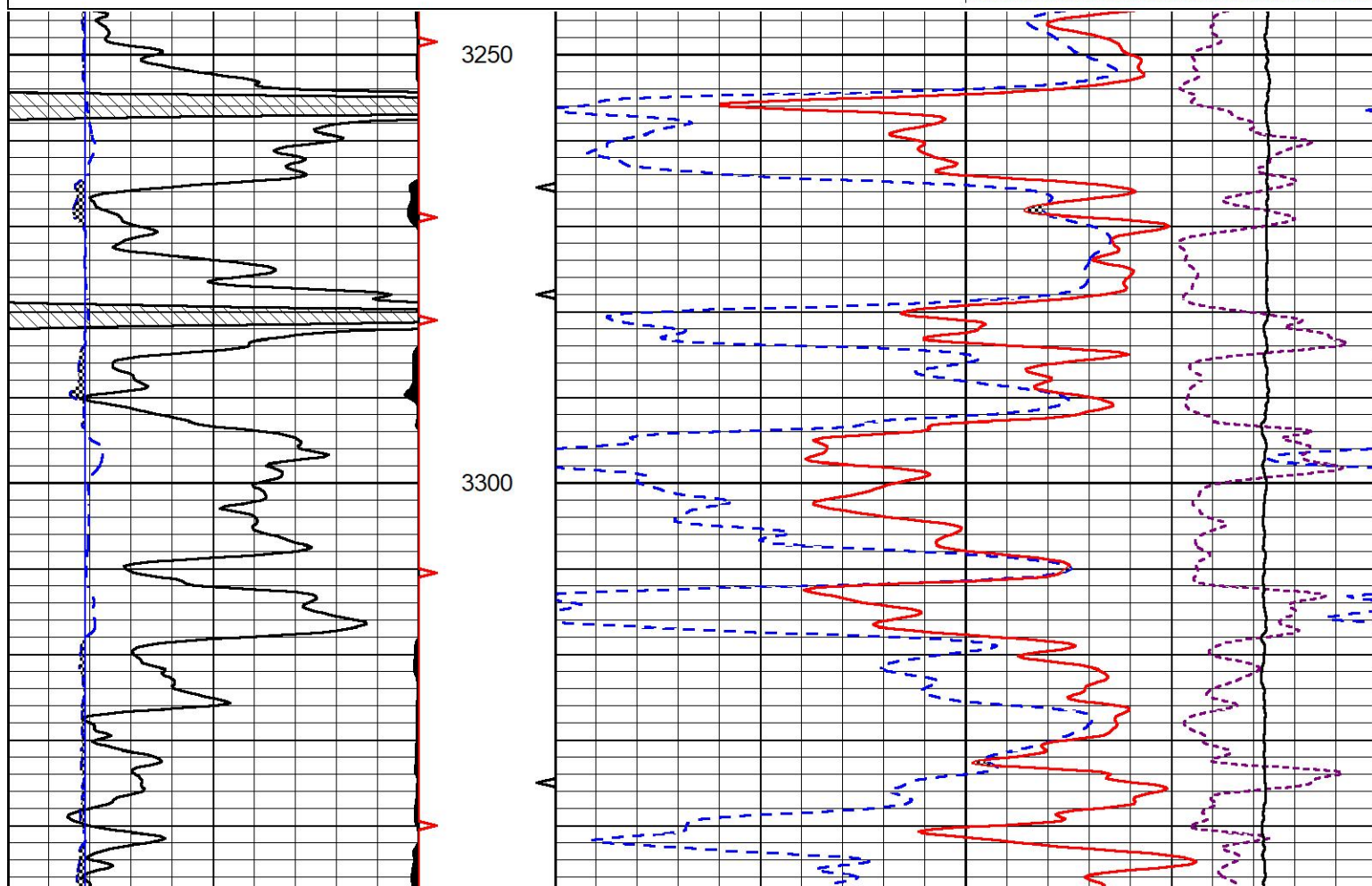
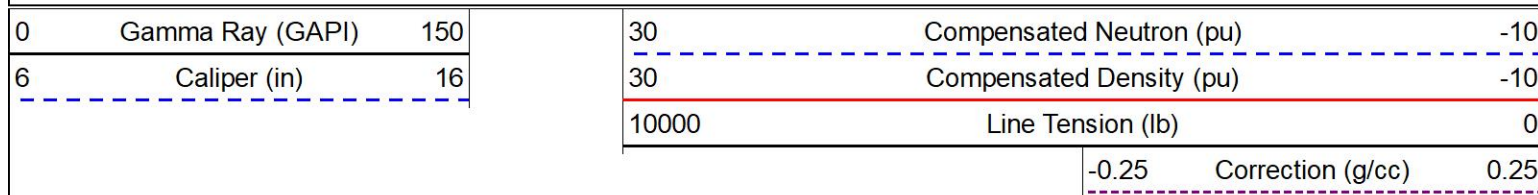


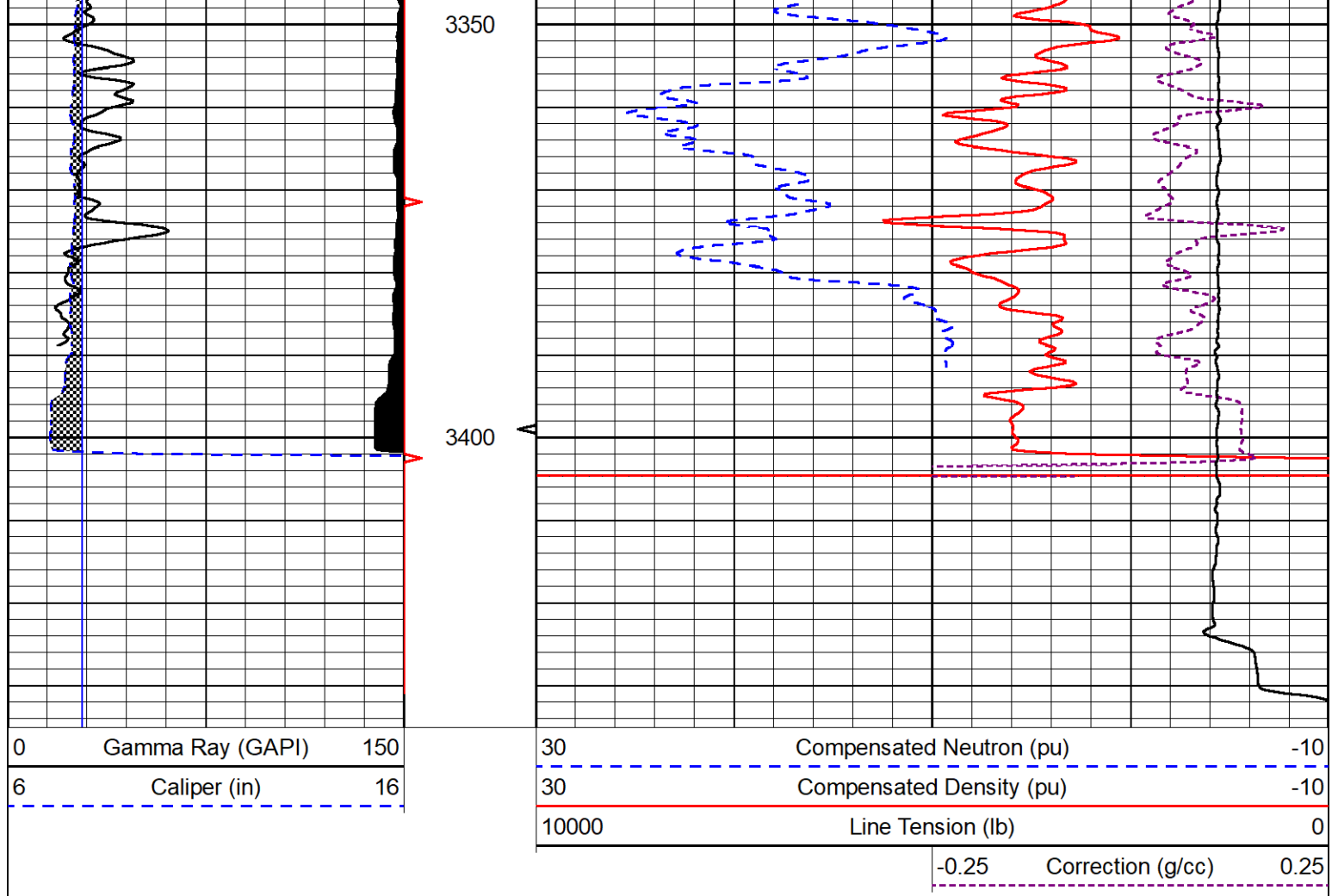


REPEAT SECTION

REPEAT PASS

Database File castle resources_kriley 1.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Mon Apr 04 23:15:07 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File: castle resources_kriley 1.db
 Dataset Pathname: stkml/pass3.11
 Dataset Creation: Mon Apr 04 22:43:10 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
Caliper	1.0052	1.0858	5.0000	16.5000	in	125.0000	-122.2000

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



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