MIDWEST WIRELINE

DUAL COMP POROSITY LOG

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

Other Services: DIL/MEL

Elevation: K.B. 2365, D.F., G.L. 2360

Permanent Datum: Ground Level Elevation 2360
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

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

Date	5/14/2024
Run Number	One
Type Log	CNL/CDL
Depth Driller	3715
Depth Logger	3708
Bottom Logged Interval	3679
Top Logged Interval	3200
Type Fluid In Hole	Chemical
Salinity, PPM CL	1000
Density	8.7
Level	Full
Max. Rec. Temp. F	113
Operating Rig Time	3 Hours
Equipment -- Location	110 HAYS
Recorded By	D. Schmidt
Witnessed By	Jerry Green

Borehole Record

Run No.	Bit	From	To
One	12.25	0	220
Two	7.875	220	TD

Casing Record

Size	Wgt.	From	To
8.625	23	0	220

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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	This Log Record Was Witnessed By
Engineer: D. Schmidt	Primary Witness: Jerry Green
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.33		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (303-03)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (504 HT)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: castle_juenemann a1.db: field/well/stkml/pass4.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_juenemann a1.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	113	4.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	-6	0	289	60	Off	378

Variable Description

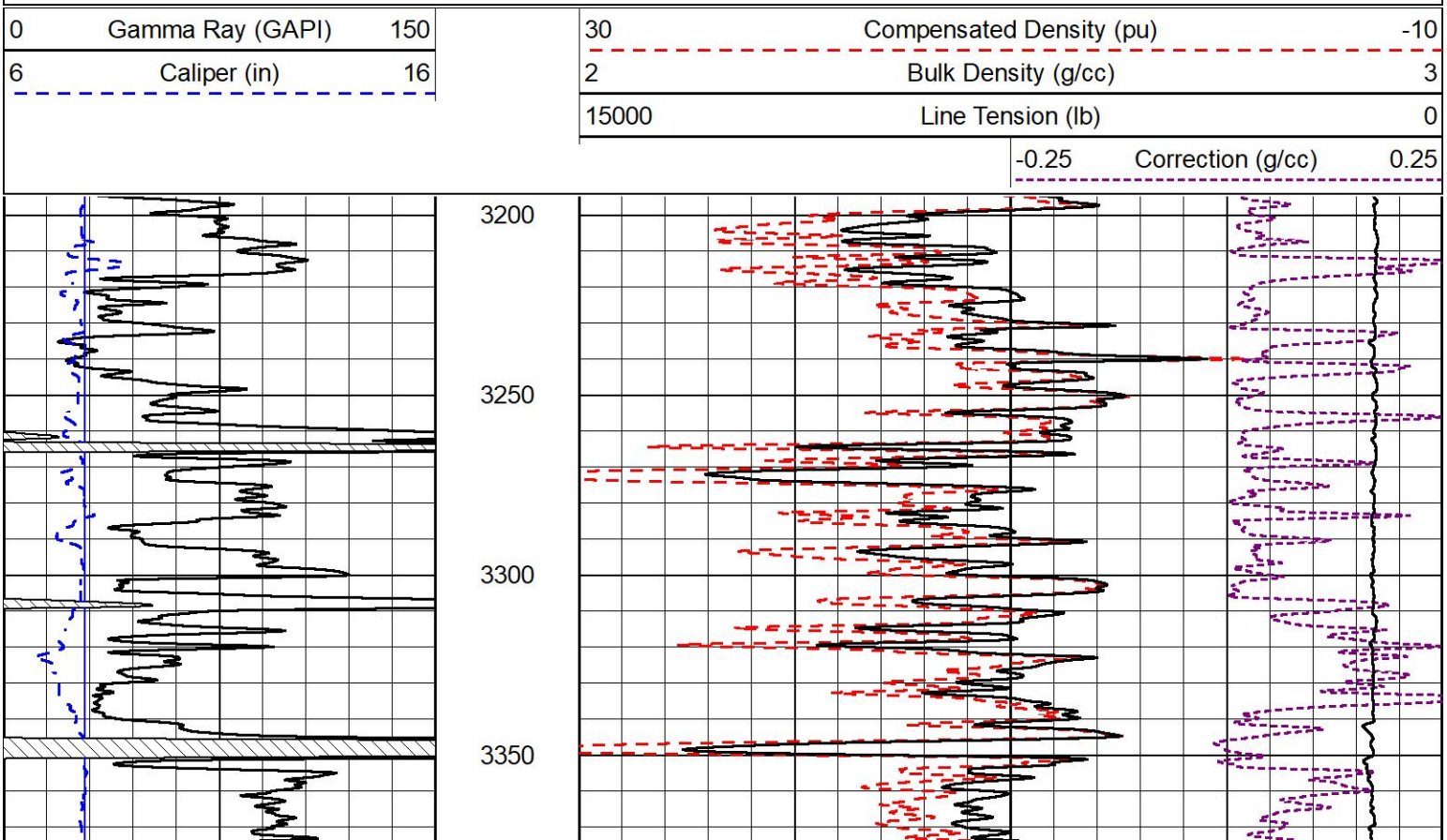
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

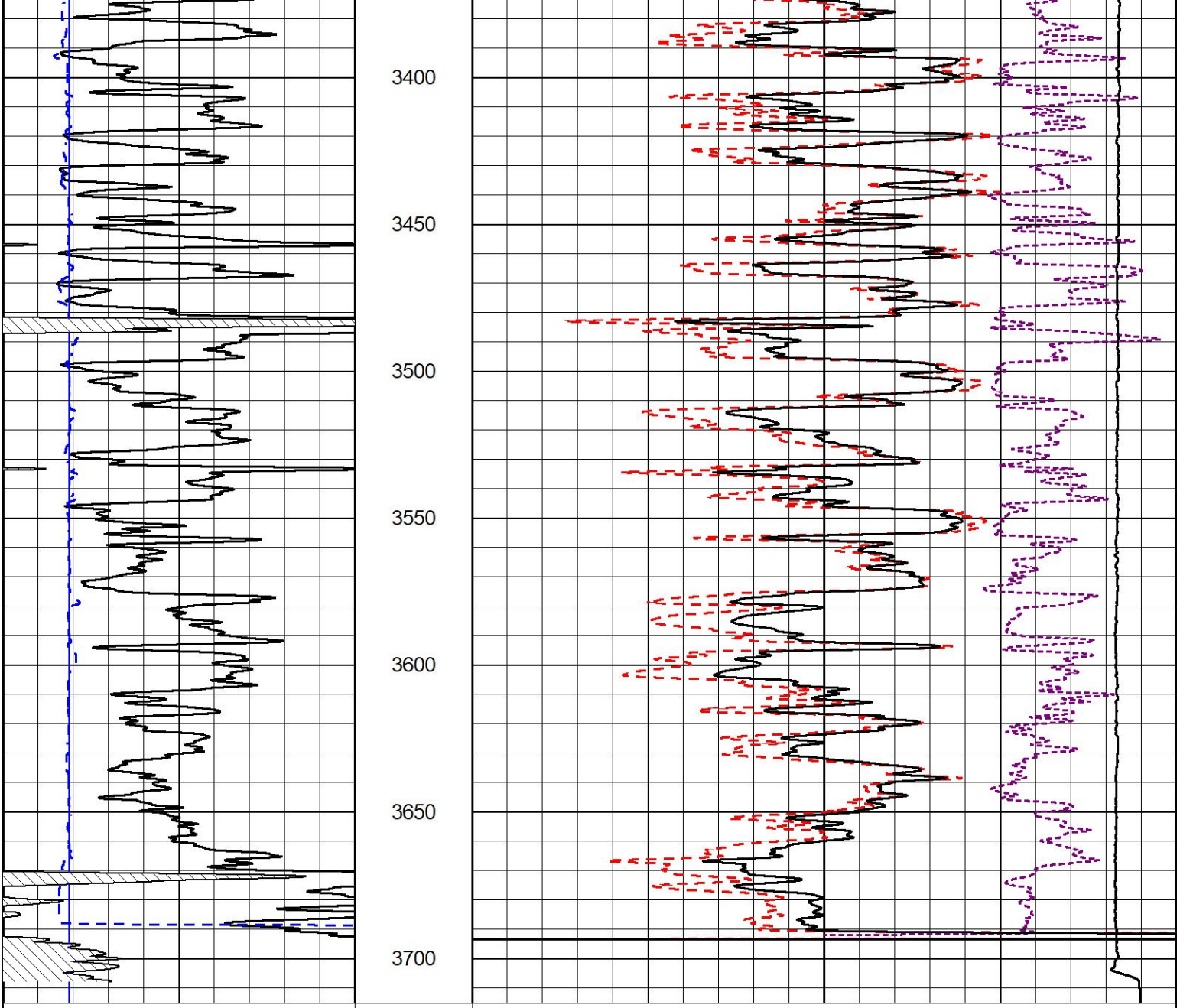
MIDWEST WIRELINE

2" SCALE BULK DENSITY

MAIN PASS

Database File	castle_juenemann a1.db
Dataset Pathname	stkml/pass4.2
Presentation Format	_cdl
Dataset Creation	Tue May 14 10:14:29 2024
Charted by	Depth in Feet scaled 1:600



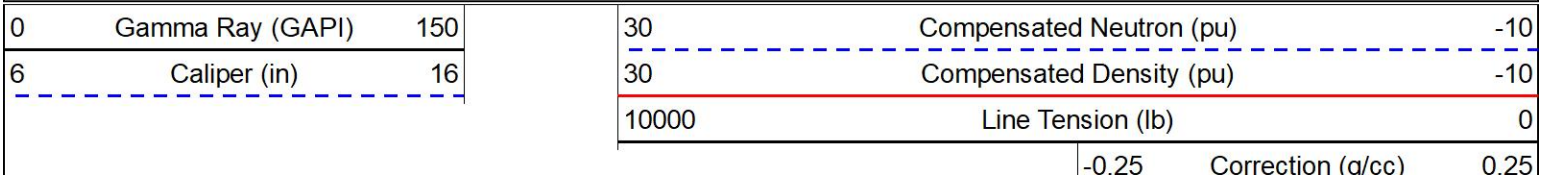


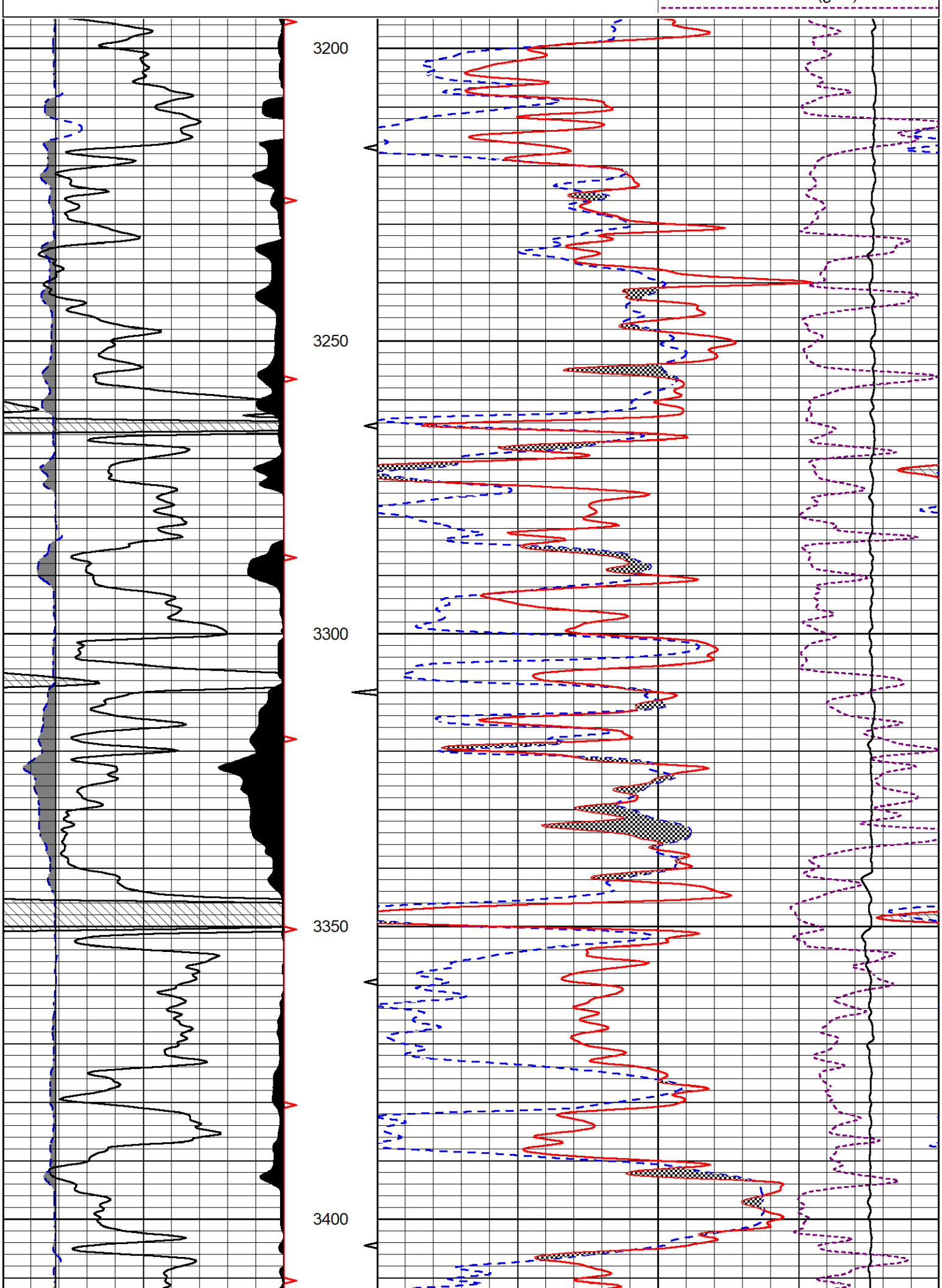
MIDWEST WIRELINE

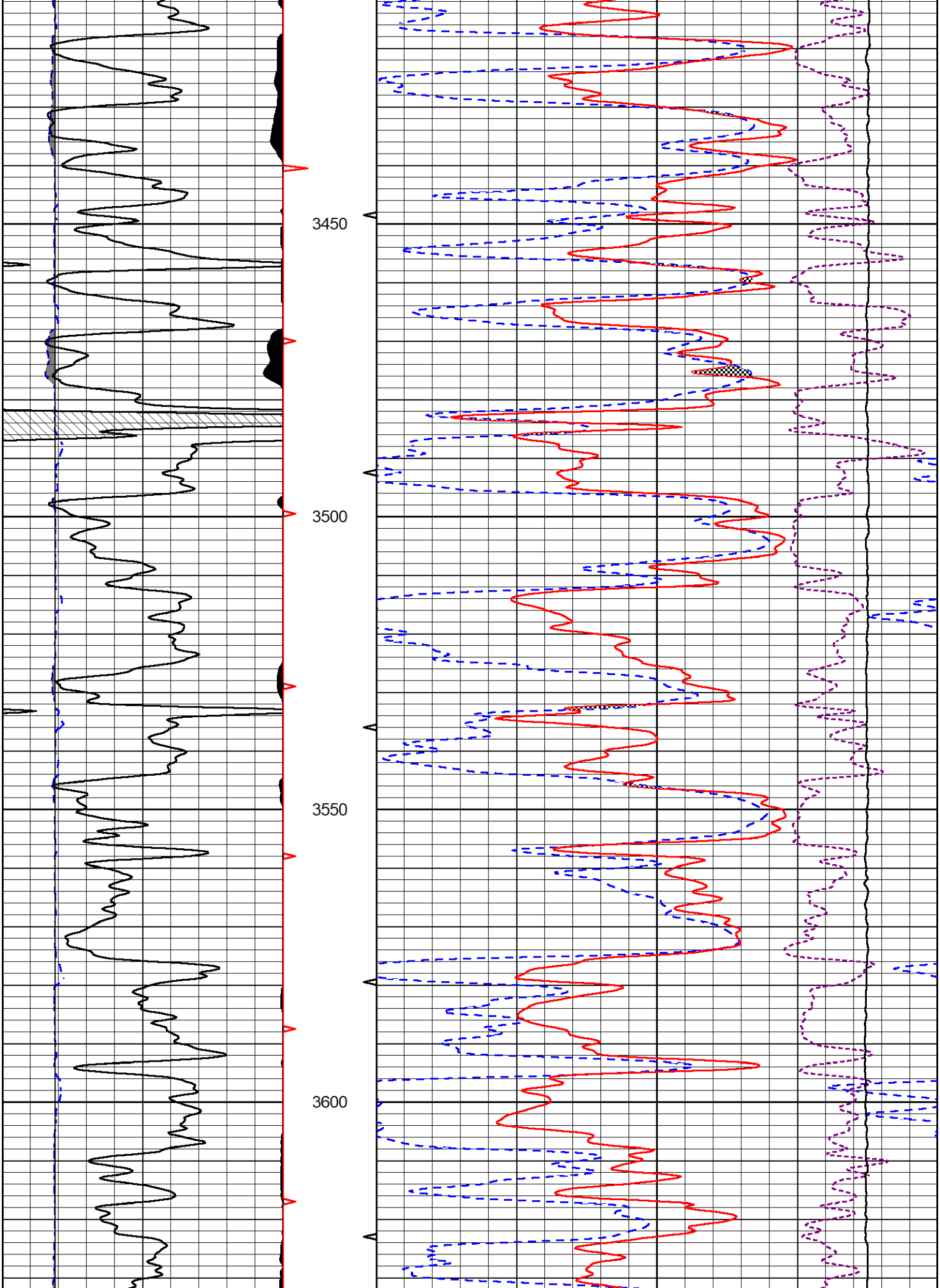
DETAIL SECTION

MAIN PASS

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




3200
3250
3300
3350
3400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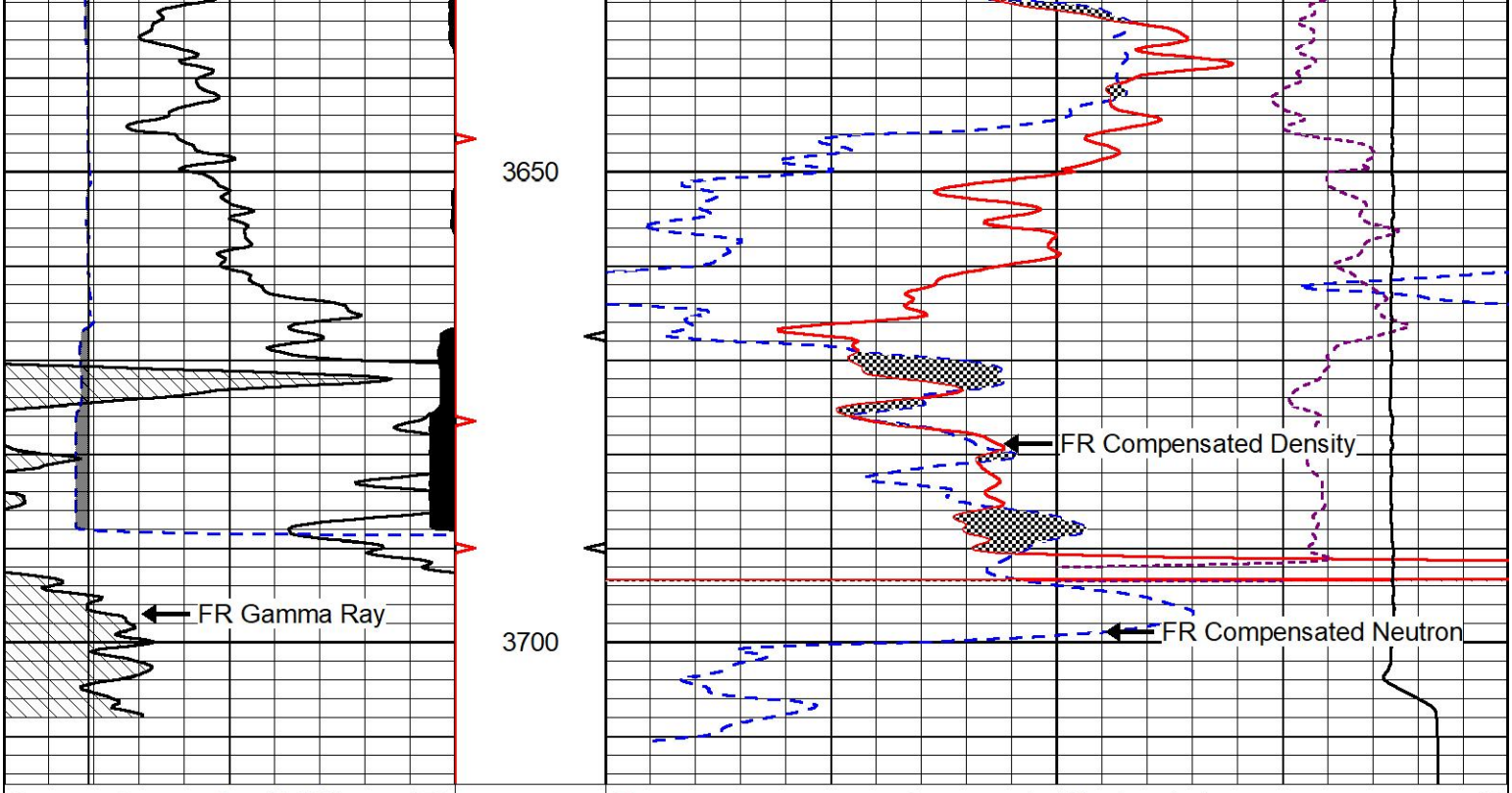
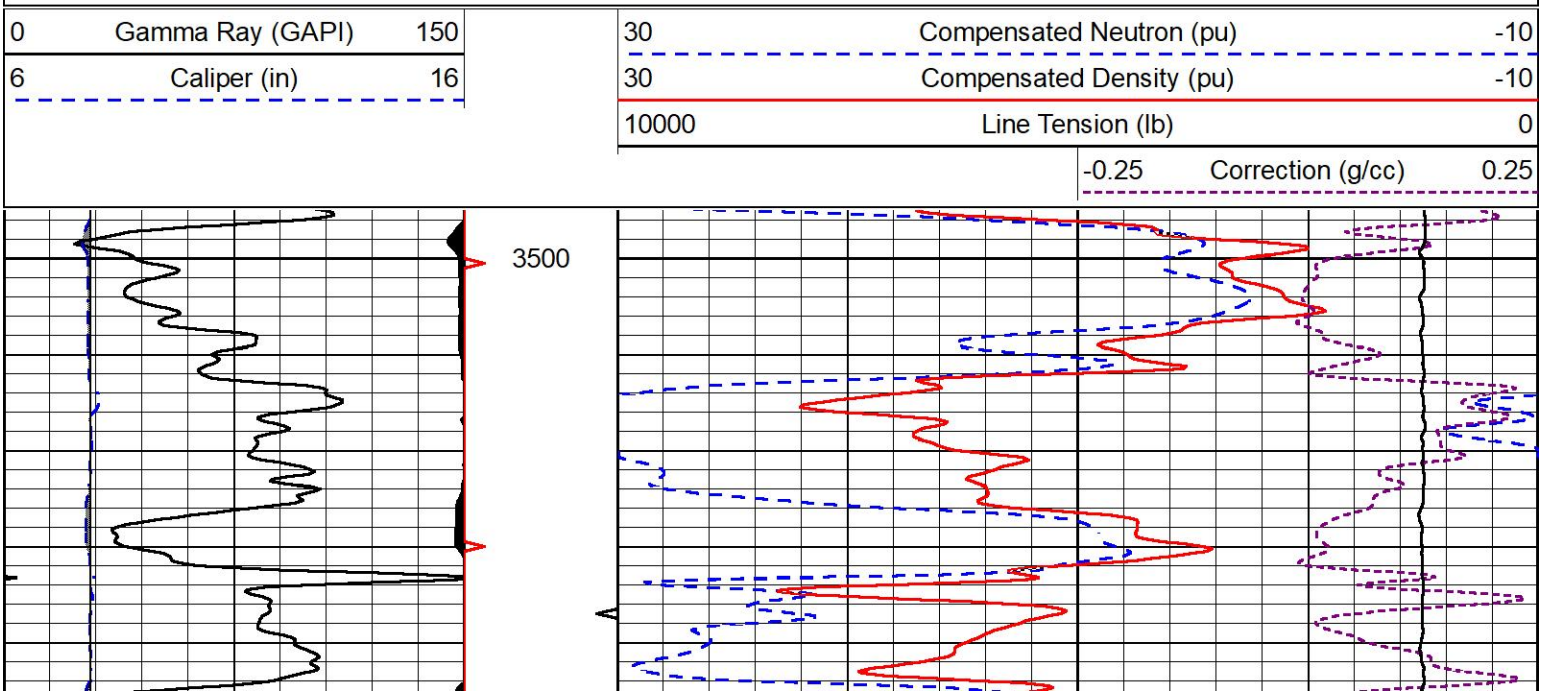


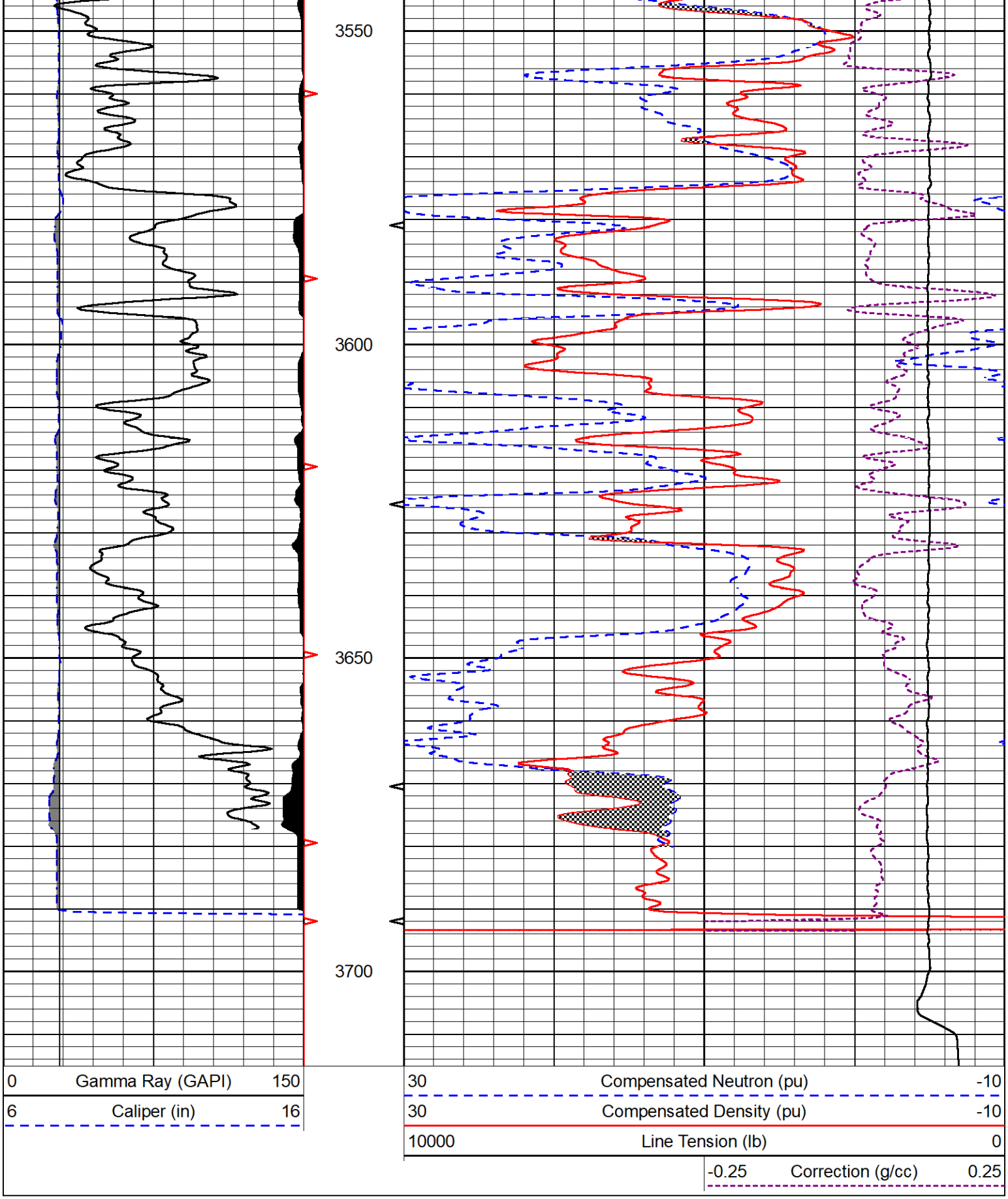
REPEAT SECTION

REPEAT PASS

MIDWEST WIRELINE

Database File	castle_juenemann a1.db
Dataset Pathname	stkml/pass2.1
Presentation Format	_CNDLS~1
Dataset Creation	Tue May 14 08:39:24 2024
Charted by	Depth in Feet scaled 1:240





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 Air	Readings Loop	References Air	References Loop		Results m	Results 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 Zero	Readings Cal	References Zero	References Cal		Results m	Results 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

MIDWEST WIRELINE

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