



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

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

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Field
County Sheridan State Kansas

Location: API #: 15-179-21486-00-00
E/2 - E/2 - W/2
SEC 23 TWP 9S RGE 28W
Permanent Datum Ground Level Elevation 2802
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/MEL
K.B. 2807
D.F.
G.L. 2802

Date 5/31/2022

Run Number One
Type Log CNL/CDL
Depth Driller 4210
Depth Logger 4210
Bottom Logged Interval 4181
Top Logged Interval 3400
Type Fluid In Hole Chemical
Salinity, PPM CL 3000
Density 9.5
Level Full
Max. Rec. Temp. F 118
Operating Rig Time 3 Hours
Equipment -- Location P-24 Hays
Recorded By B. Waggoner
Witnessed By D. Schmidt
Jerry Green

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	310	8.625	23	0	310
Two	7.875	310	TD				

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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.

Hoxie,
South to 70 Road, 1 1/2 Miles East, South 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: B. Waggoner
Operator: D. Schmidt
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)
GR	40.33			GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48			CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18			CDL-M&W (305-05)	8.50	4.00	250.00
	28.17			ML-PSIML (402)	7.58	4.00	65.00
	27.68						
MCAL MI MN	19.58						
	19.58						
	19.58						
RLL3F RLL3	15.50			DIL-M&W (502 HT)	18.25	3.50	220.00
	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: castle_kennedy#1.db: field/well/stkml/pass4.15 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/stkml/pass4.15/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 118	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 -95	degF 80	Off	ft 4210

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

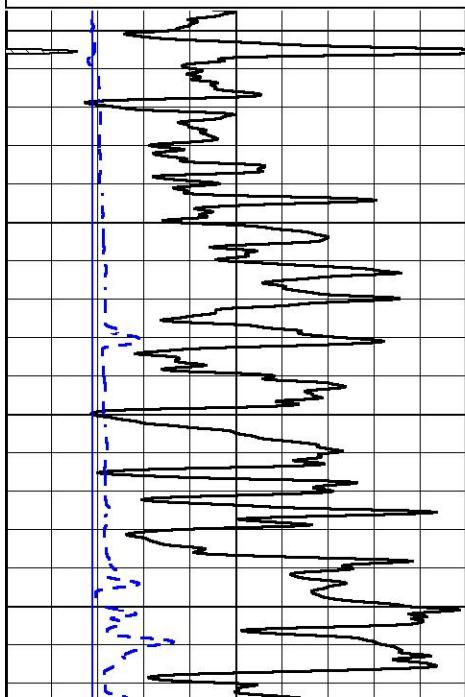
2" SCALE BULK DENSITY

MAIN PASS

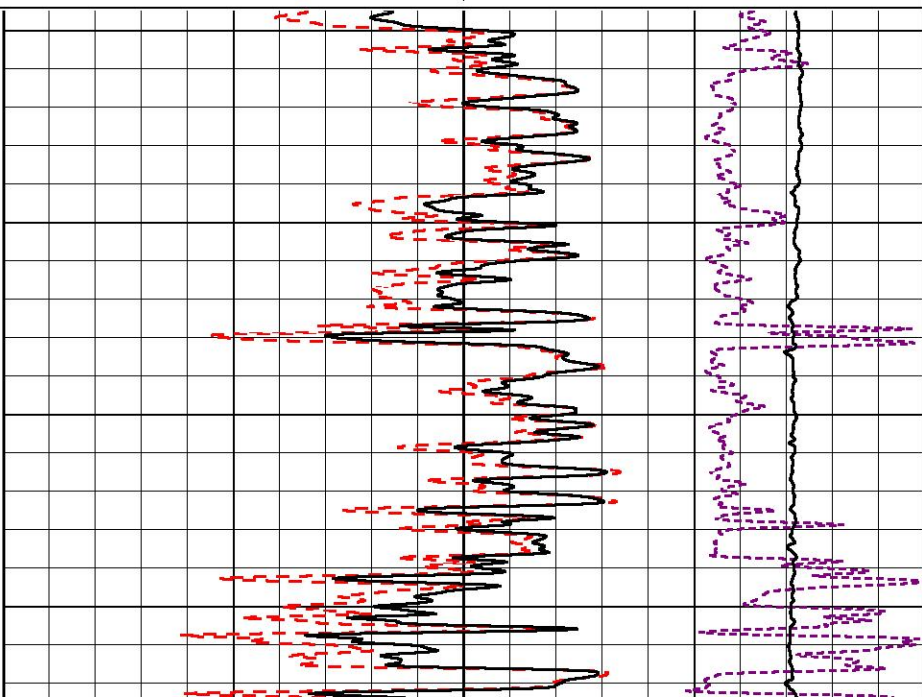
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Dataset Pathname stkml/pass4.2
Presentation Format _cdl
Dataset Creation Tue May 31 16:35:44 2022
Charted by Depth in Feet scaled 1:600

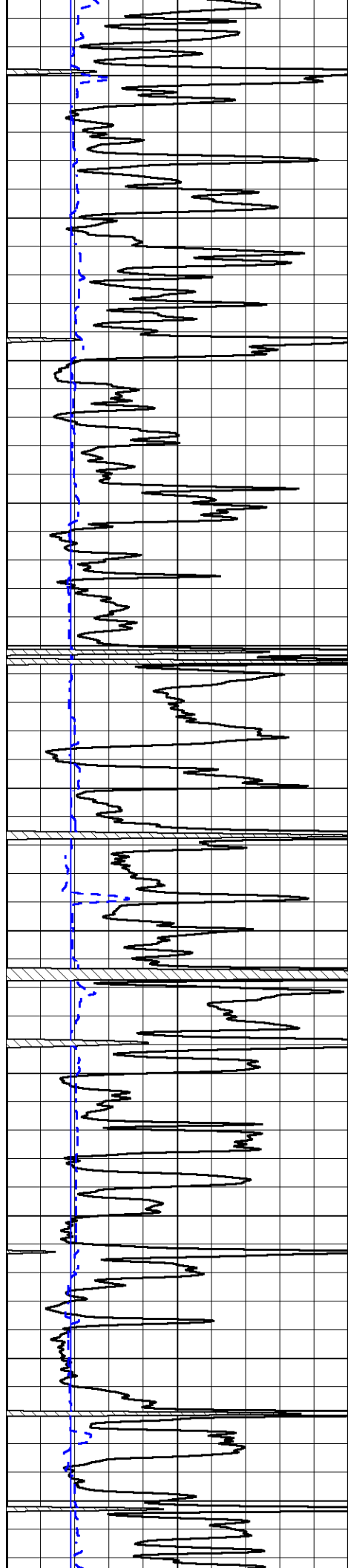
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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



3400
3450
3500
3550





3600

3650

3700

3750

3800

3850

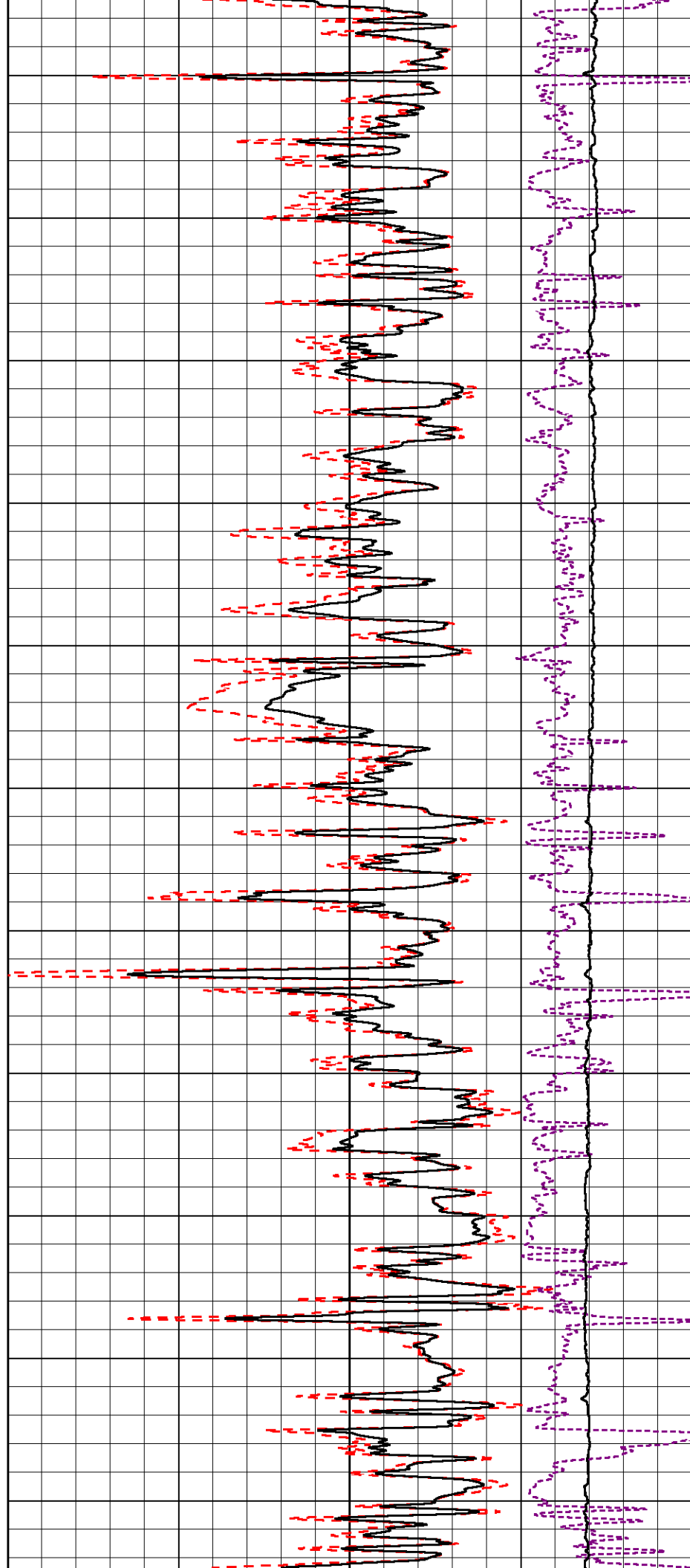
3900

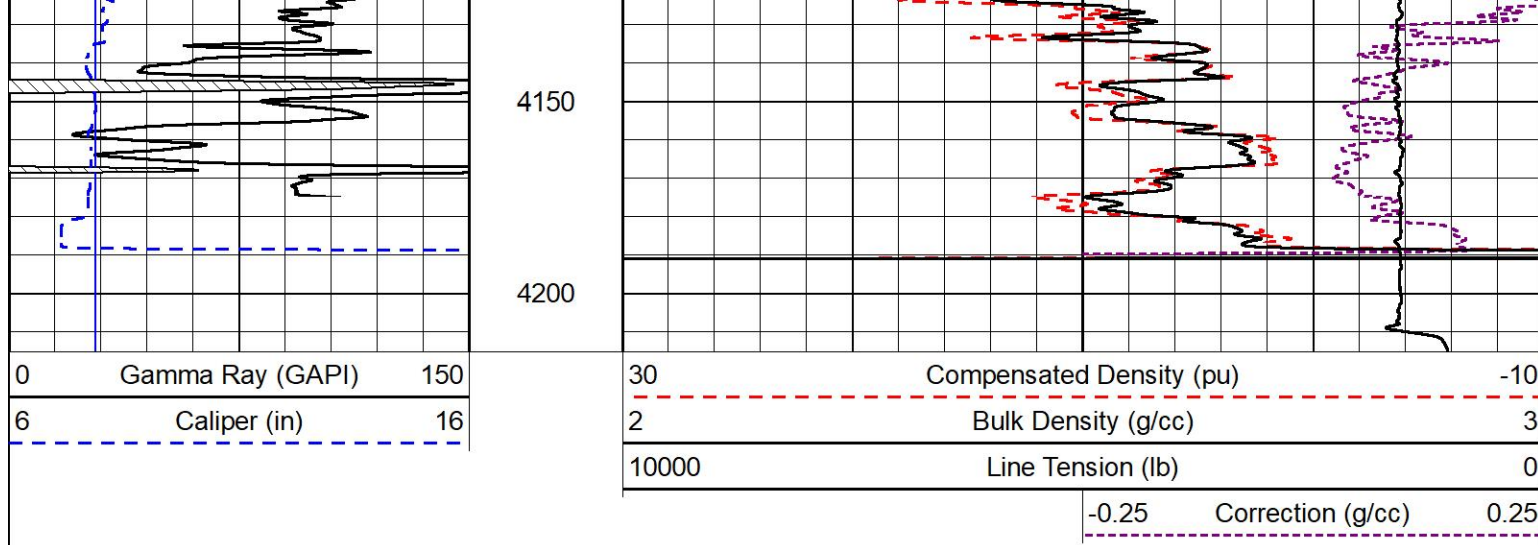
3950

4000

4050

4100



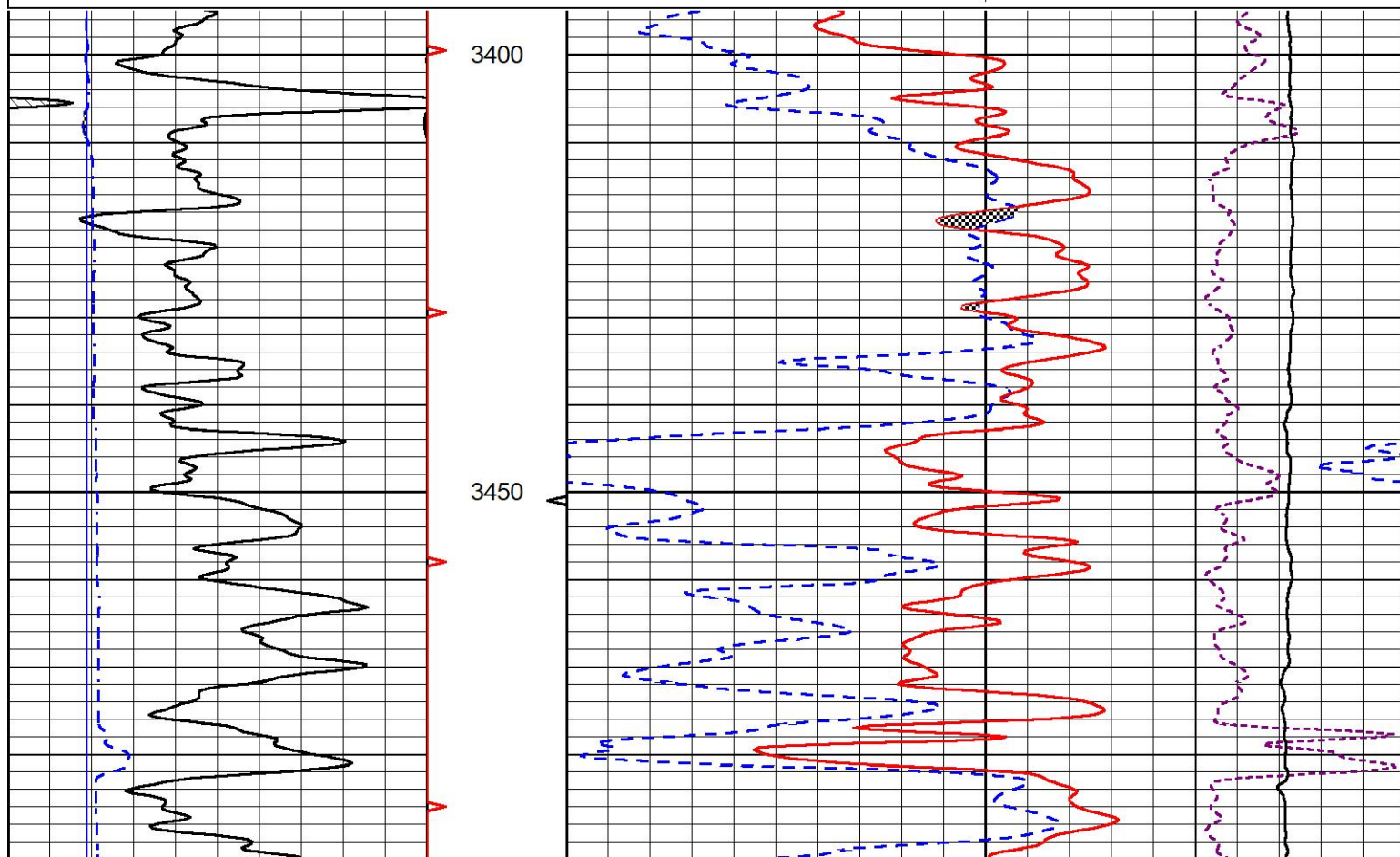
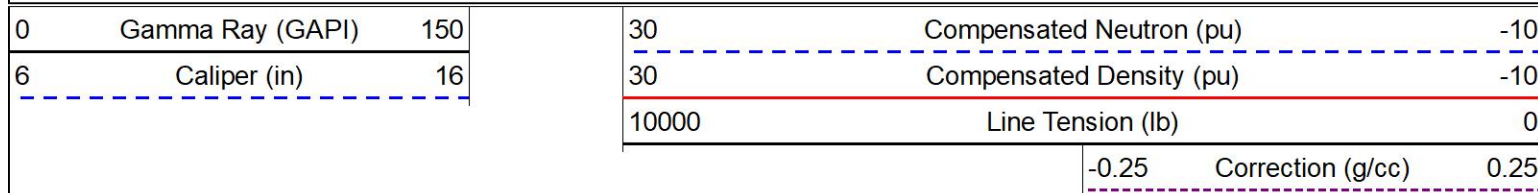


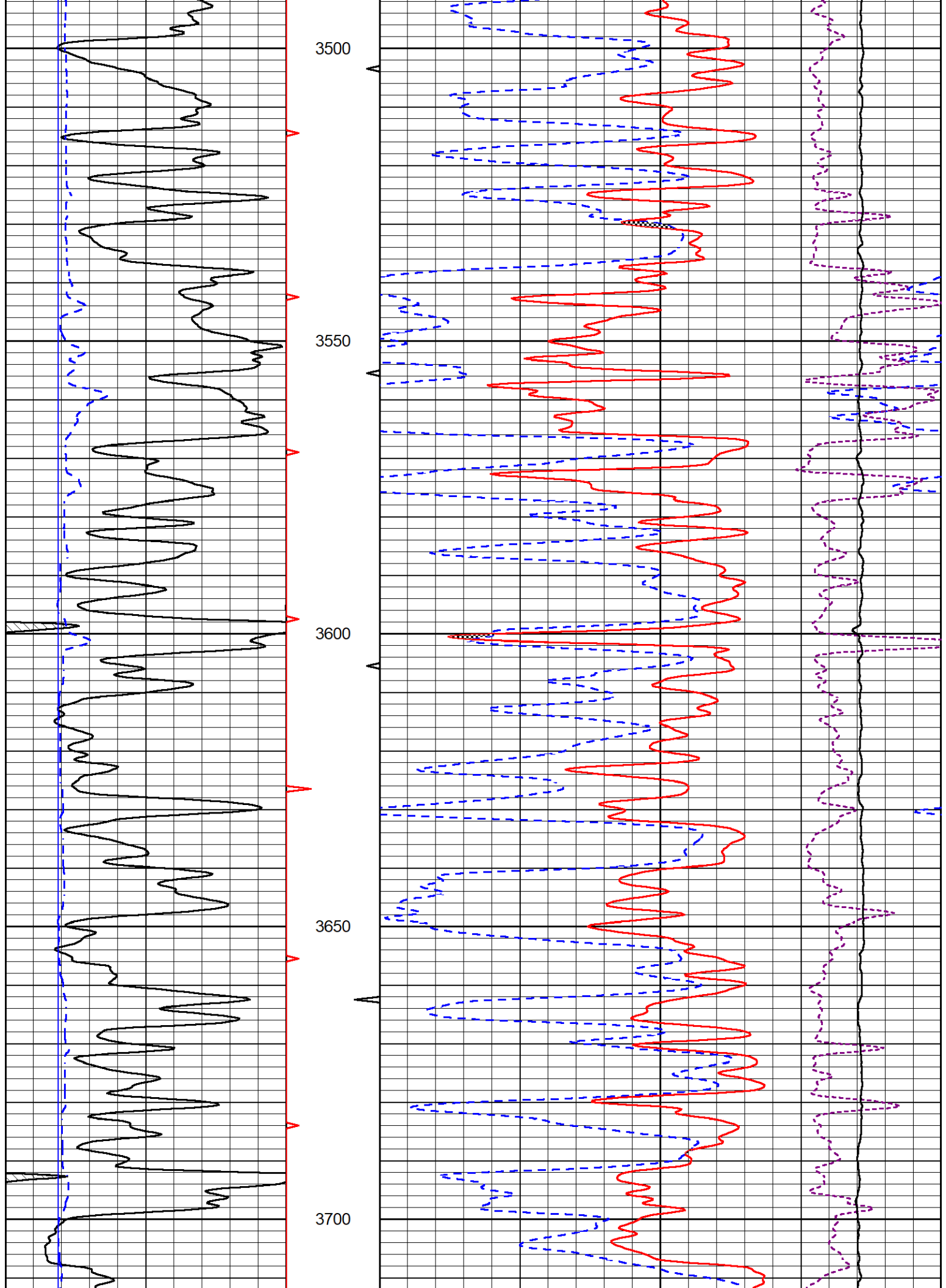
MIDWEST WIRELINE

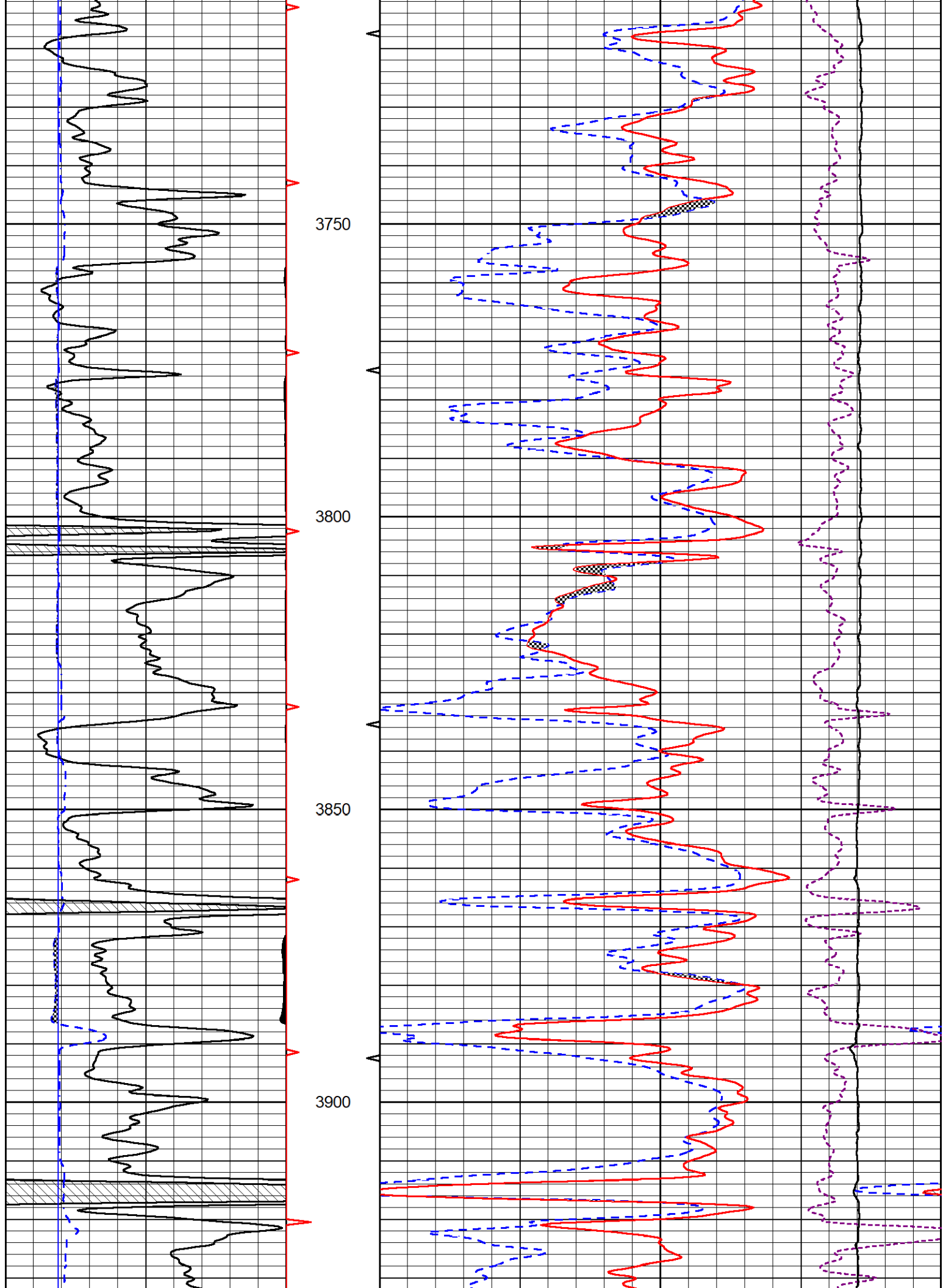
DETAIL SECTION

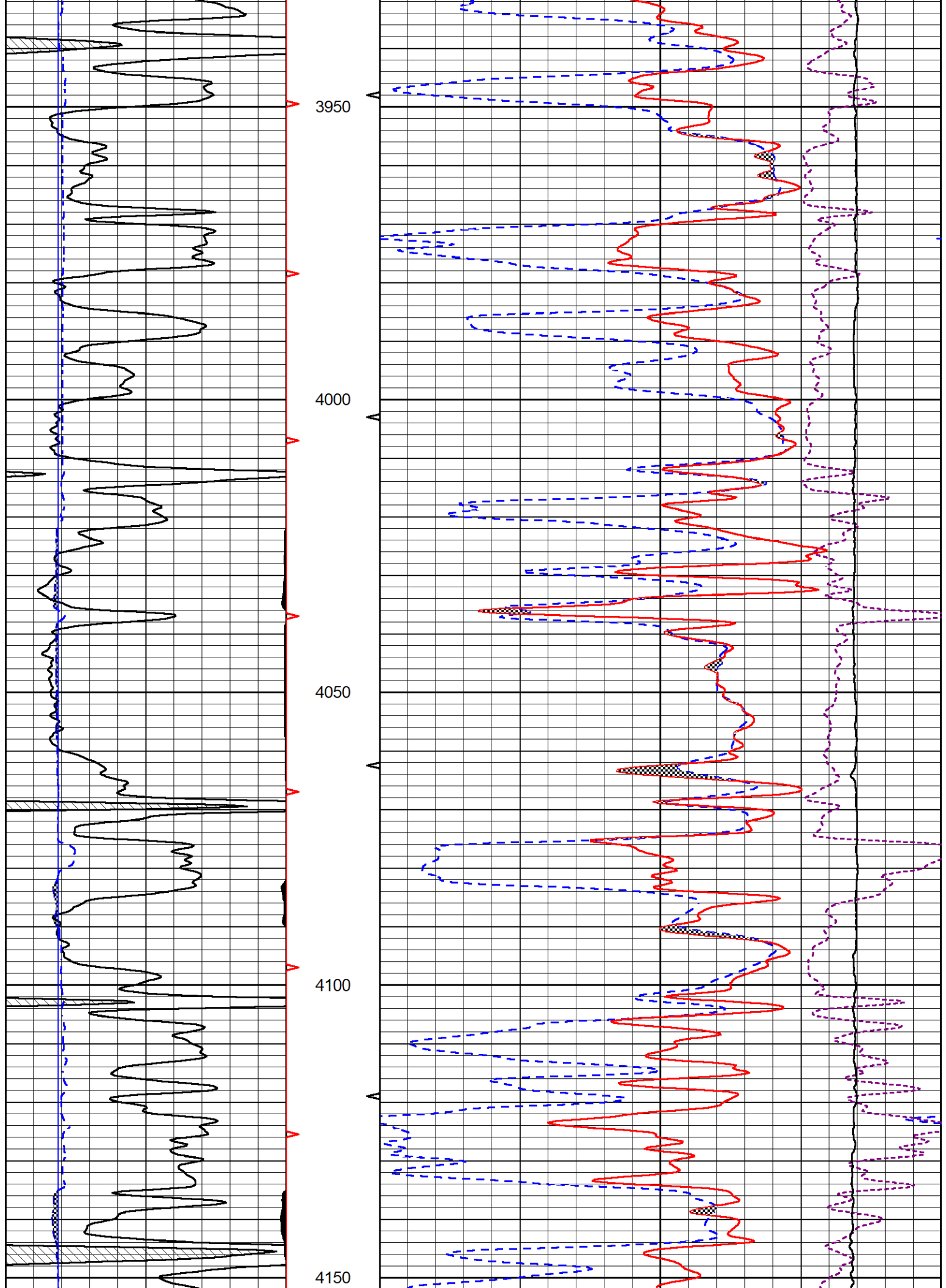
MAIN PASS

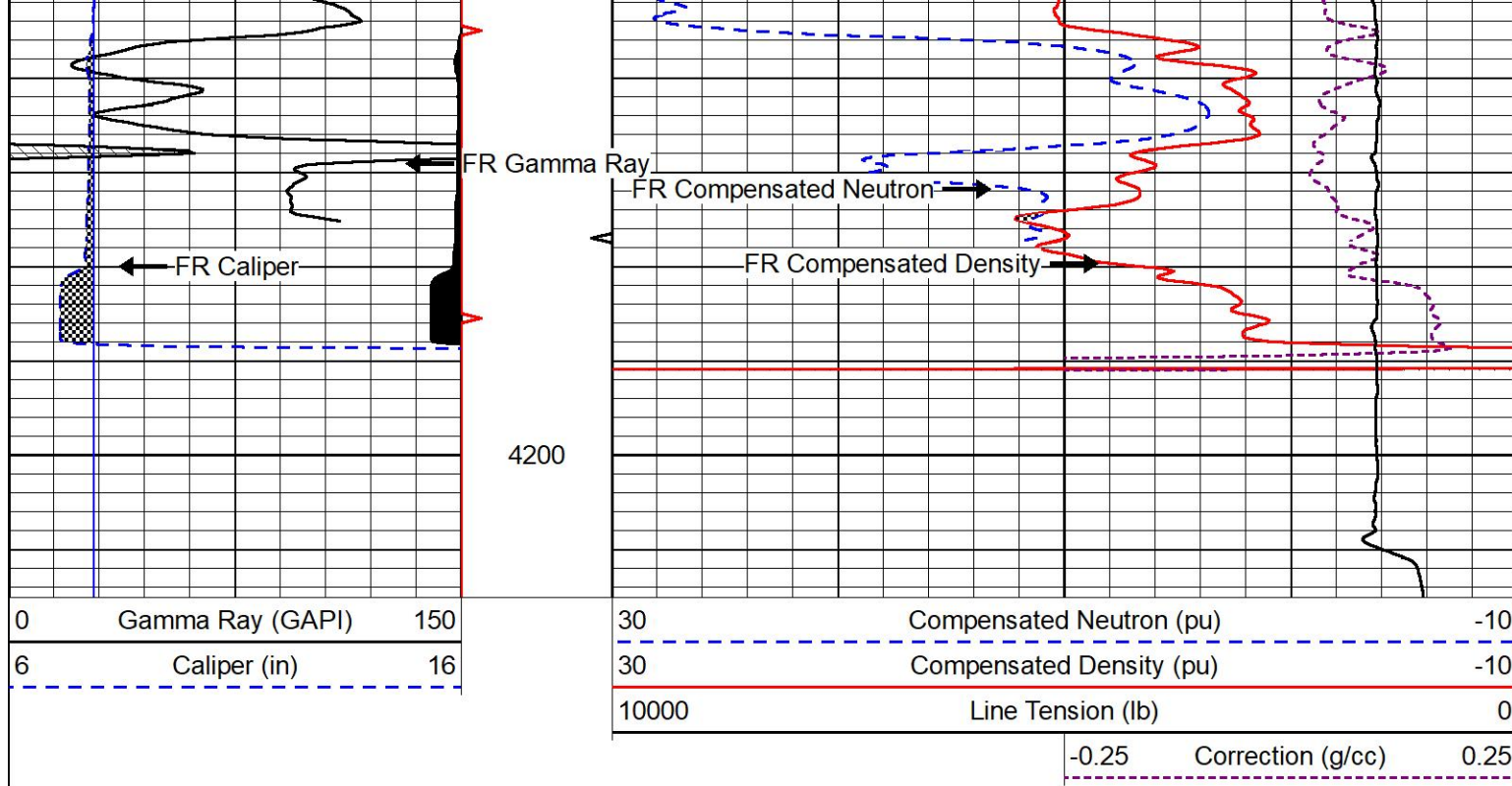
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 Dataset Pathname stkml/pass4.1
 Presentation Format _CNDLS~1
 Dataset Creation Tue May 31 16:35:32 2022
 Charted by Depth in Feet scaled 1:240









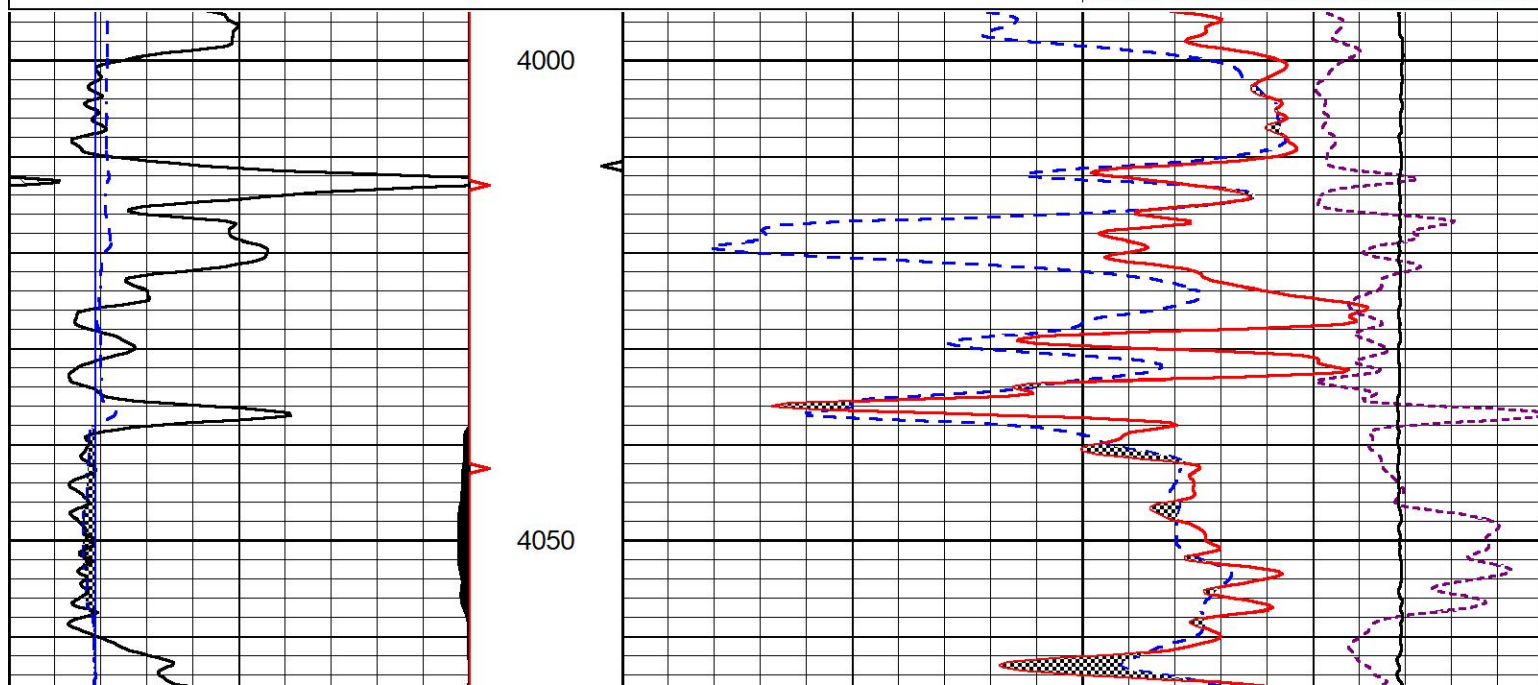
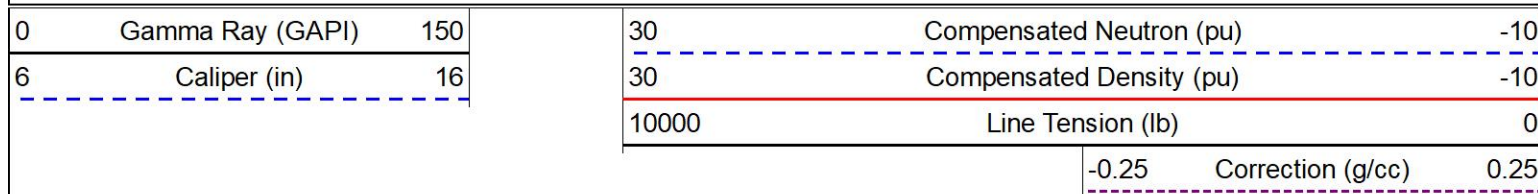


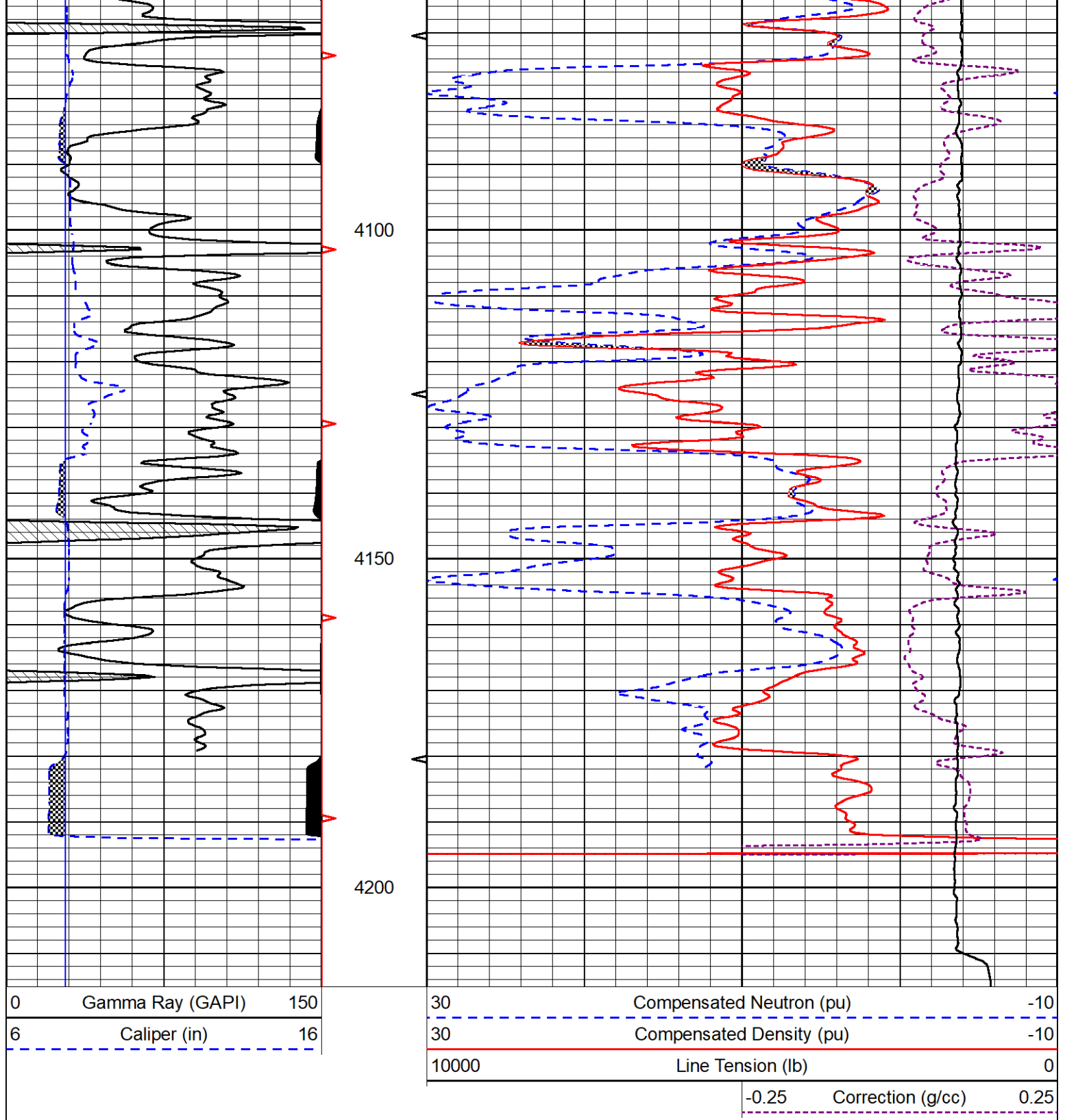
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File castle_kennedy#1.db
 Dataset Pathname stkml/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Tue May 31 16:05:18 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File castle_kennedy#1.db
Dataset Pathname stkml/pass4.15
Dataset Creation Tue May 31 15:53:37 2022

Dual Induction Calibration Report

Serial-Model: 502 HT-M&W
Surface Cal Performed: Wed Feb 9 17:39:00 2022

Readings

References

Results

Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.454	-38.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.350	-10.000
Microlog Calibration Report							
Serial-Model: Performed:			402-PSIML 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	21000.0000	-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	65.0000	-59.8000
Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:			305-05-M&W 20762B Fri Apr 22 07:18:08 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	1.74				
Large Ring	14.00	in	1.38				
Compensated Neutron Calibration Report							
Serial-Model: Source #: Master Calibration Performed:			207-MW-M&W 100046B 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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State	Kansas