



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Eternity Exploration LLC
Well Harold Jr & Lous Werth #1
Field Custer Northwest
County Sheridan State Kansas

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State Kansas

Location: API #: 15-179-2397-00-01
E2 NW/SE
1980 FSL & 1650 FEL
SEC 2 TWP 10S RGE 26W
Permanent Datum Ground Level Elevation 2584
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/MEL
K.B. 2589
D.F.
G.L. 2584

Date 3/17/2022

Run Number One
Type Log CNL/CDL
Depth Driller 4150
Depth Logger 4151
Bottom Logged Interval 4123
Top Logged Interval 3600
Type Fluid In Hole Chemical
Salinity, PPM CL 4400
Density 9.0
Level Full
Max. Rec. Temp. F 118
Operating Rig Time 2.5
Equipment -- Location P-24 Hays
Recorded By T. Martin
Witnessed By Kim Shoemaker

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	153	8.625	23	00	153
Two	7.875	153	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.

Collyer, KS, 4 W on 40 to Rd 78,
10.5 N, W 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: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Kim Shoemaker
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\eternity_harld jr lous werth #1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - 2350.00 ft

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-195	0	Off	0

2350.00 ft - Bottom

BOTTEMP degF	SPSHIFT mV	SRFTEMP degF	TDEPTH ft
118	-210	50	4151

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

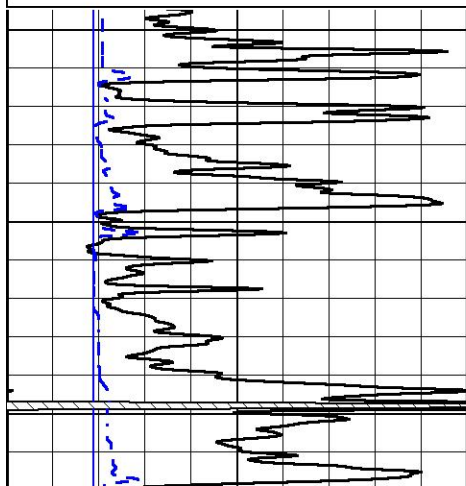
2" SCALE BULK DENSITY

MAIN PASS

Database File eternity_harld jr lous werth #1.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Thu Mar 17 22:33:37 2022
Charted by Depth in Feet scaled 1:600

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

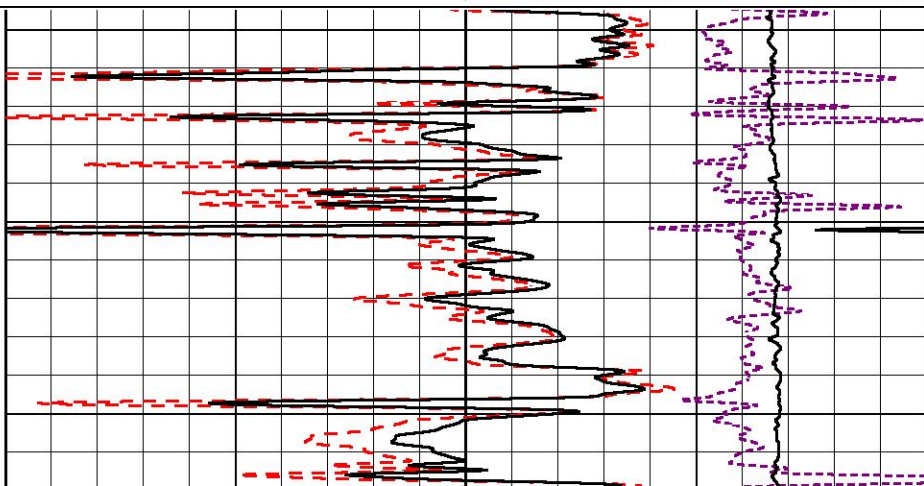
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

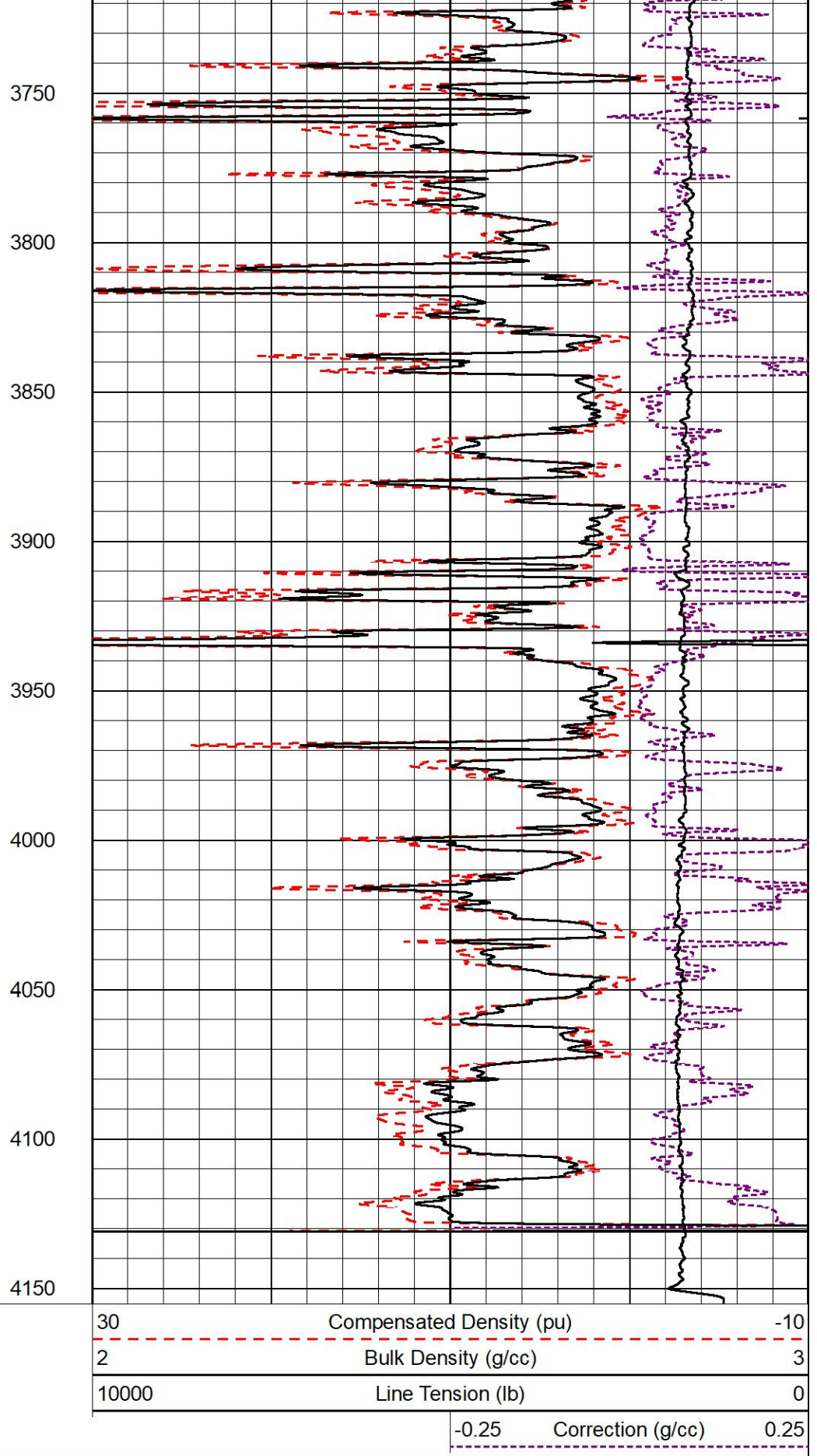
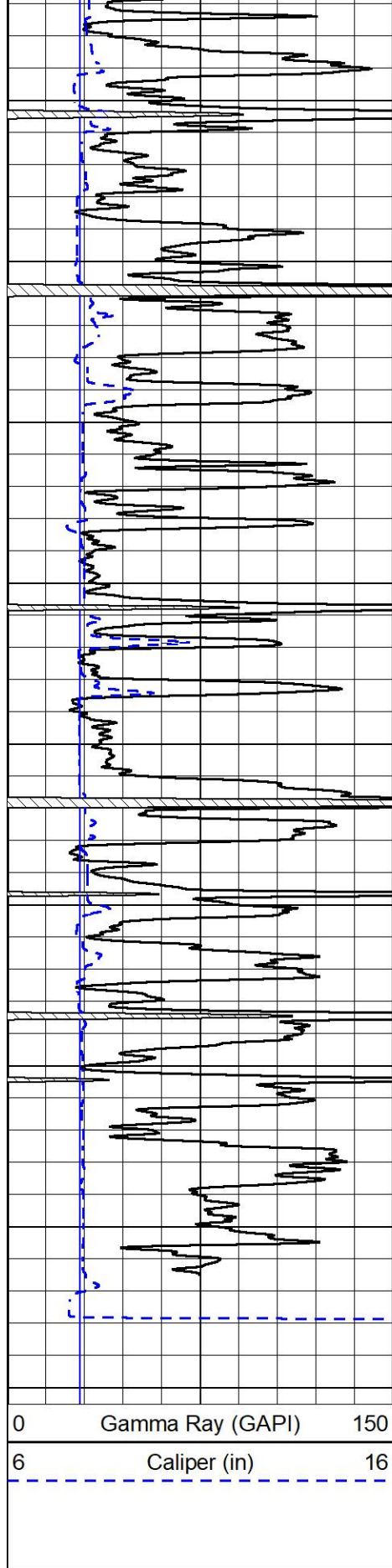


3600

3650

3700





MIDWEST WIRELINE

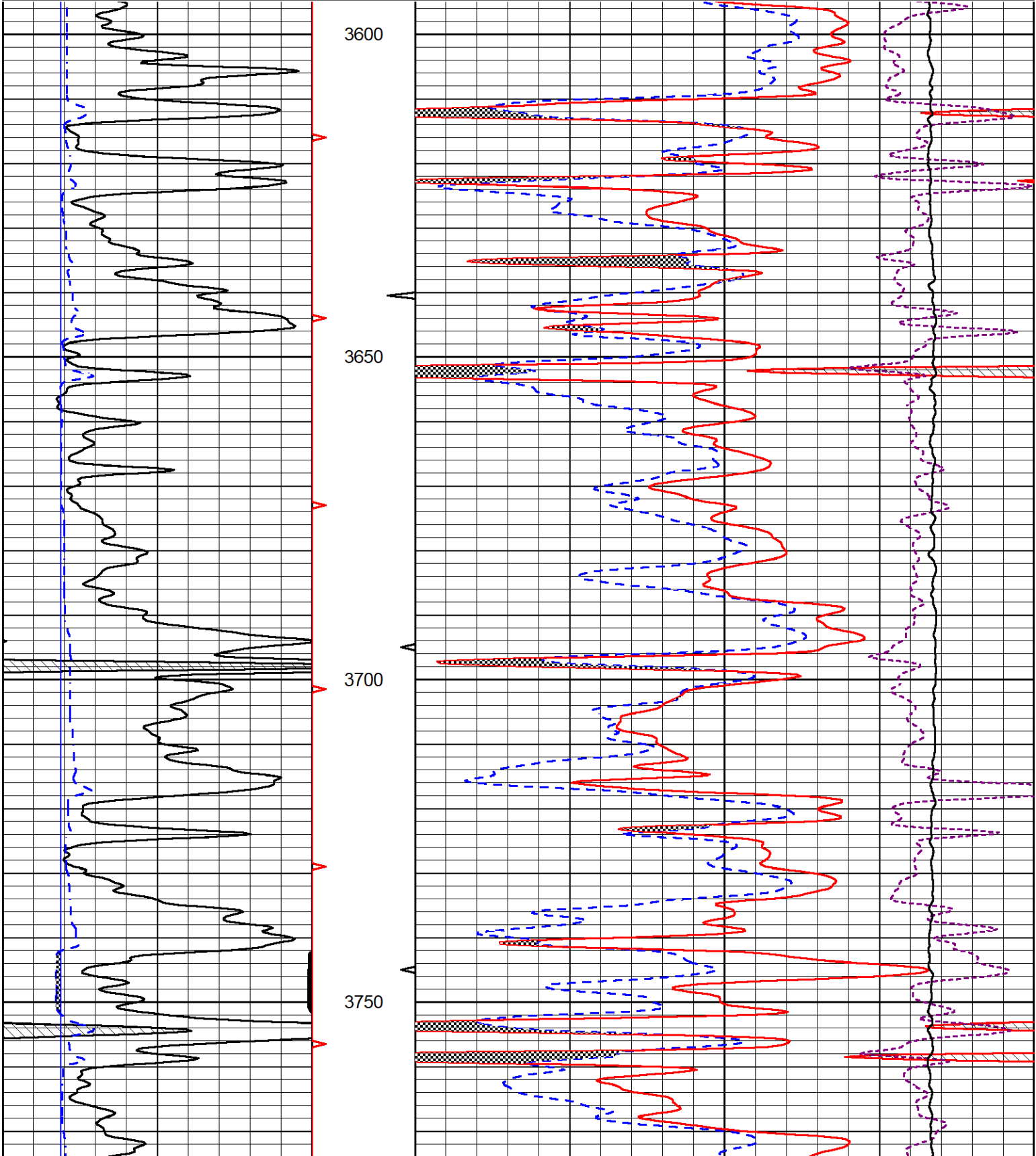
DETAIL SECTION

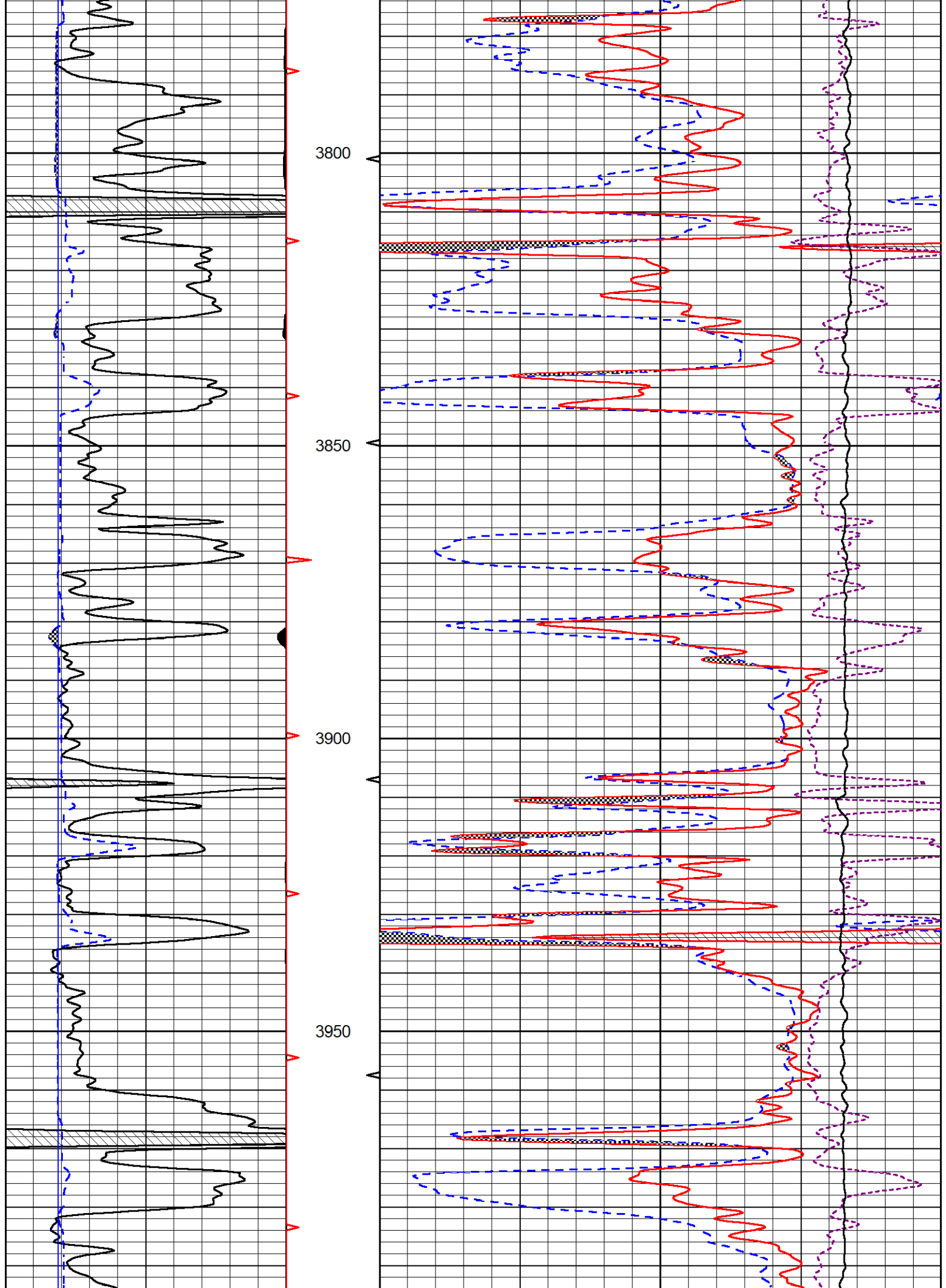
MAIN PASS

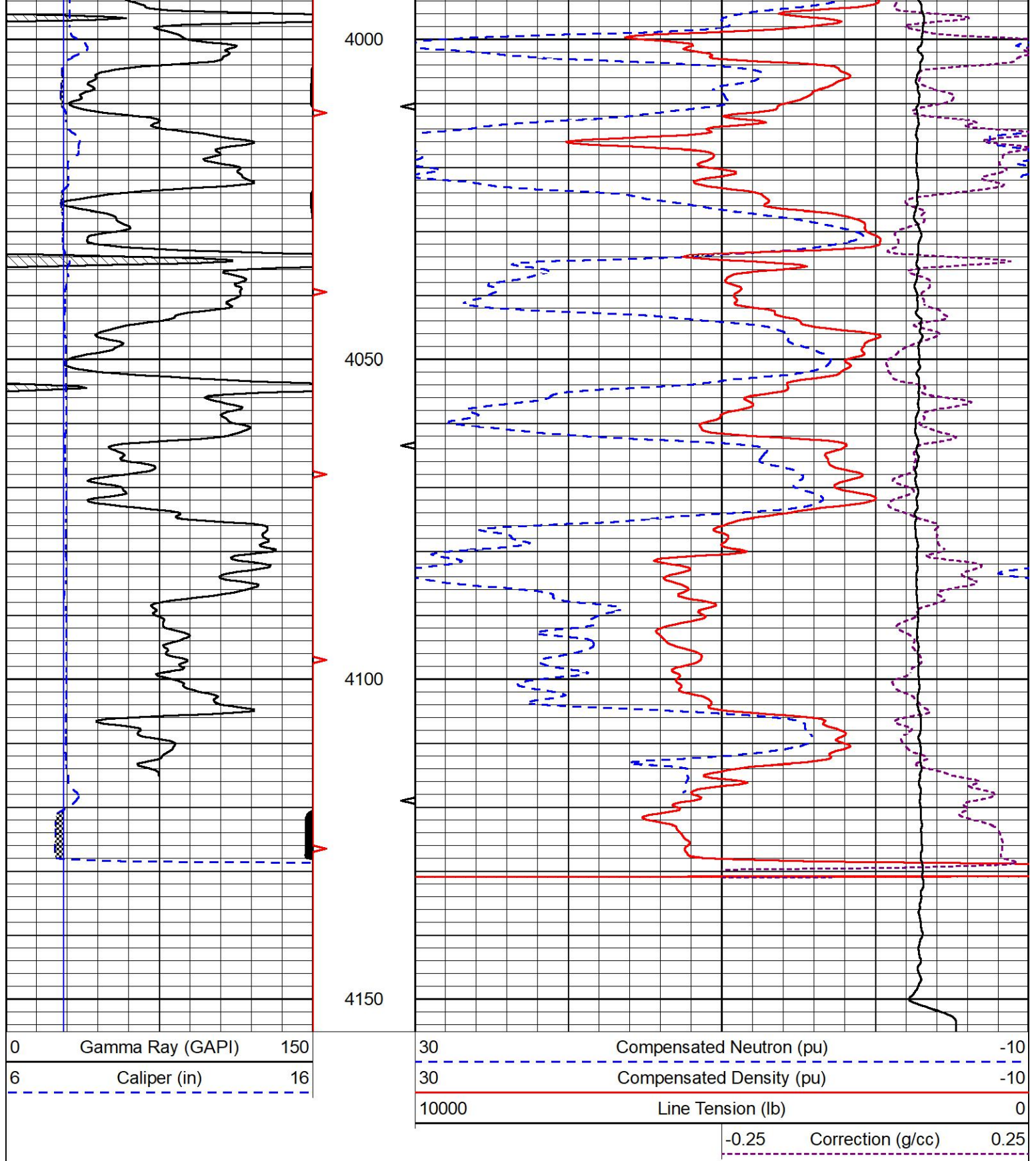
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Dataset Pathname StkMI/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Thu Mar 17 23:19:56 2022
Charted by Depth in Feet scaled 1:240

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

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







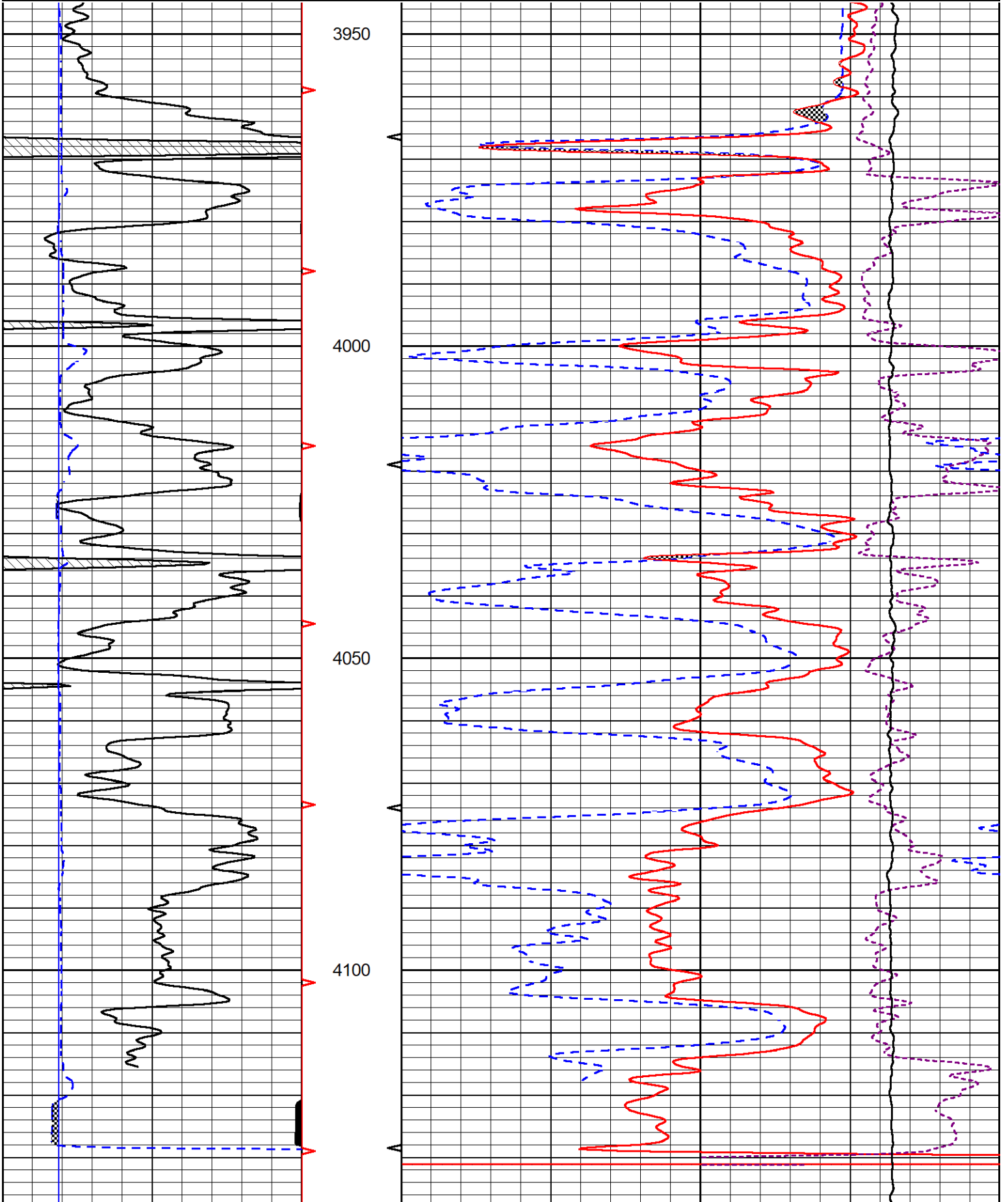
REPEAT SECTION

REPEAT PASS

Database File eternity_harld jr lous werth #1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Thu Mar 17 22:39:41 2022

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

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



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: 0.6000 GAPI/cps



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