

DUAL COMP POROSITY LOG

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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.

Newton, KS, E on 1st Ave to Purity
Springs Rd, 2 S, 1/4 E, S into

Log Measured From: Kelly Bushing 6 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: T. Martin
Operator:
Operator:
Operator:

Primary Witness: Ray Gilbert
Secondary Witness:
Secondary Witness:
Secondary Witness:

Component	Offset (ft)	Schematic	Description	Length (ft)	OD (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)				
GR	40.33			GR-M&W (106)	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 (307-11)	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 15.50			DIL-M&W (501 HT)	18.25	3.50	220.00				
CILD	8.33										
	CILM							4.50			
								SP	0.20		
Dataset: epoc_eck a #3.db: field/well1/StkMI/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in											

Log Variables

DatabaseC:\ProgramData\Warrior\Data\epoc_eck a #3.db
Dataset field/well1/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	102	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	-80	80		2594

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



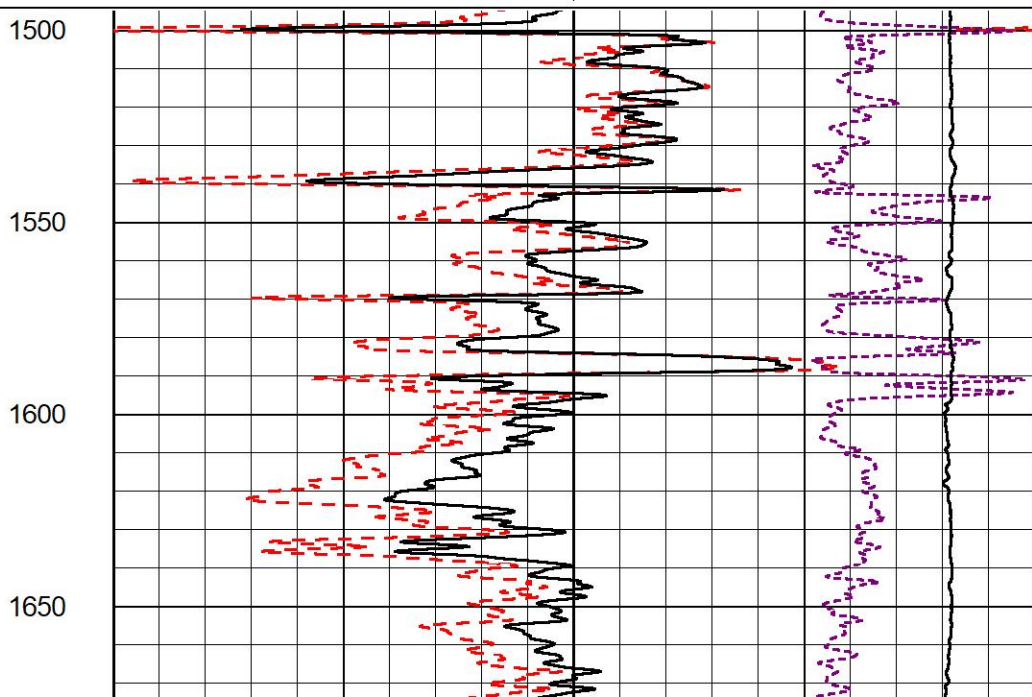
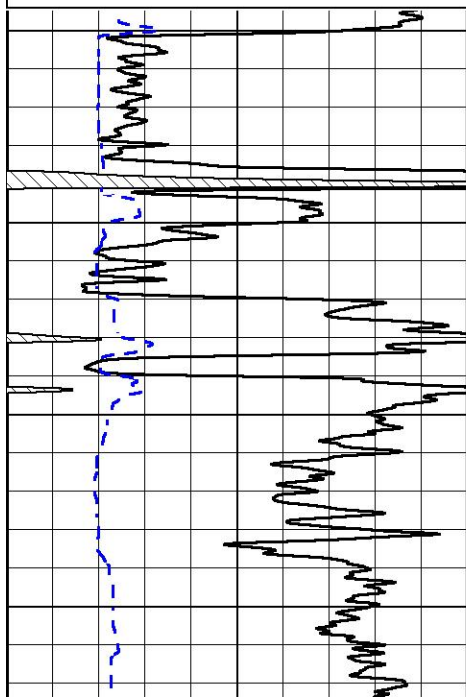
2" SCALE BULK DENSITY

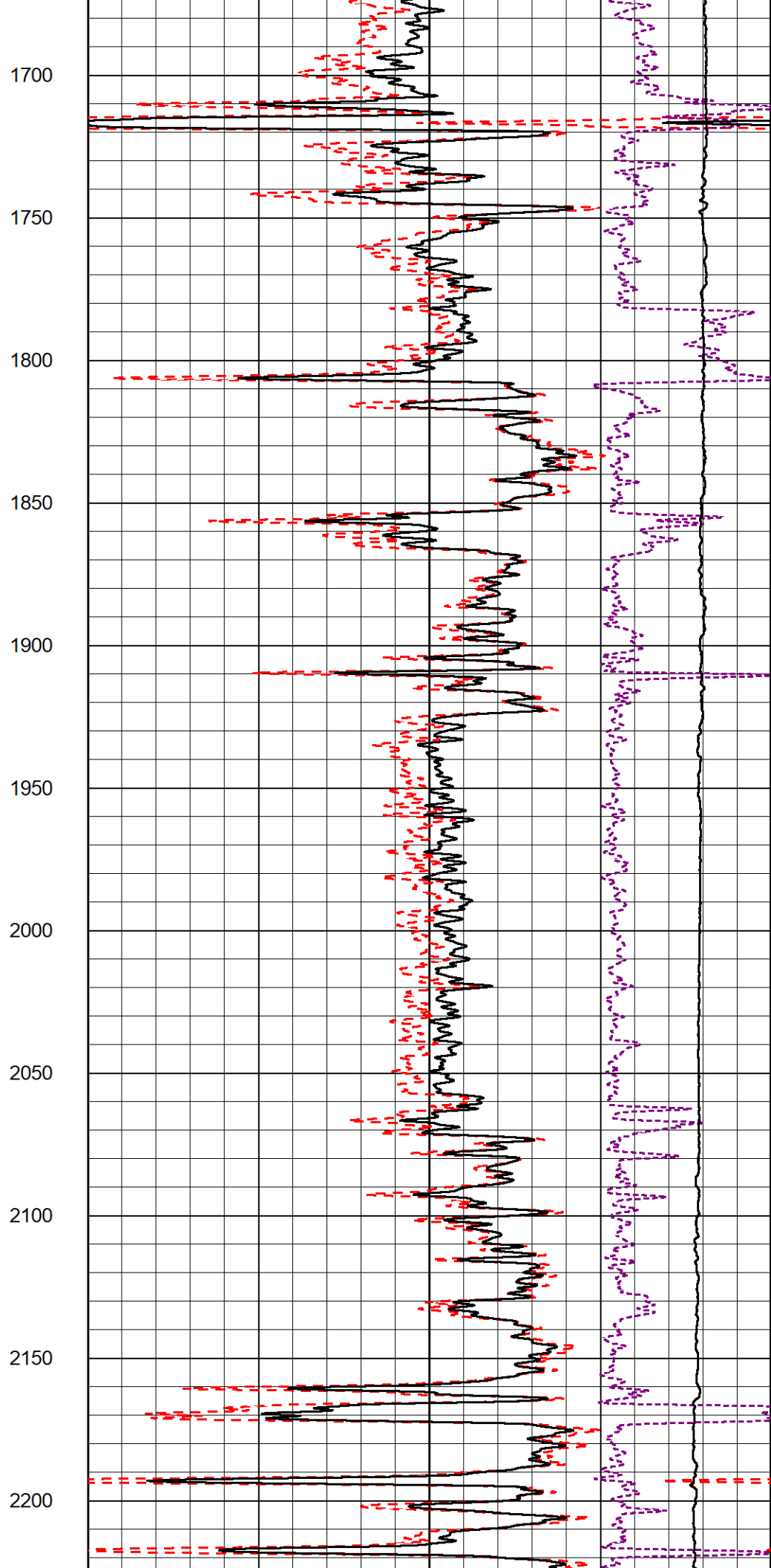
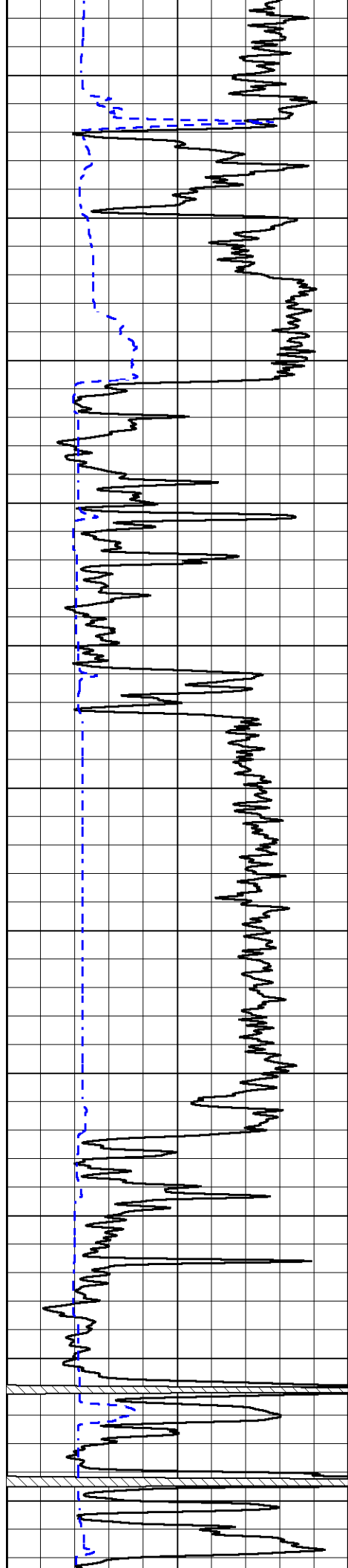
MAIN PASS

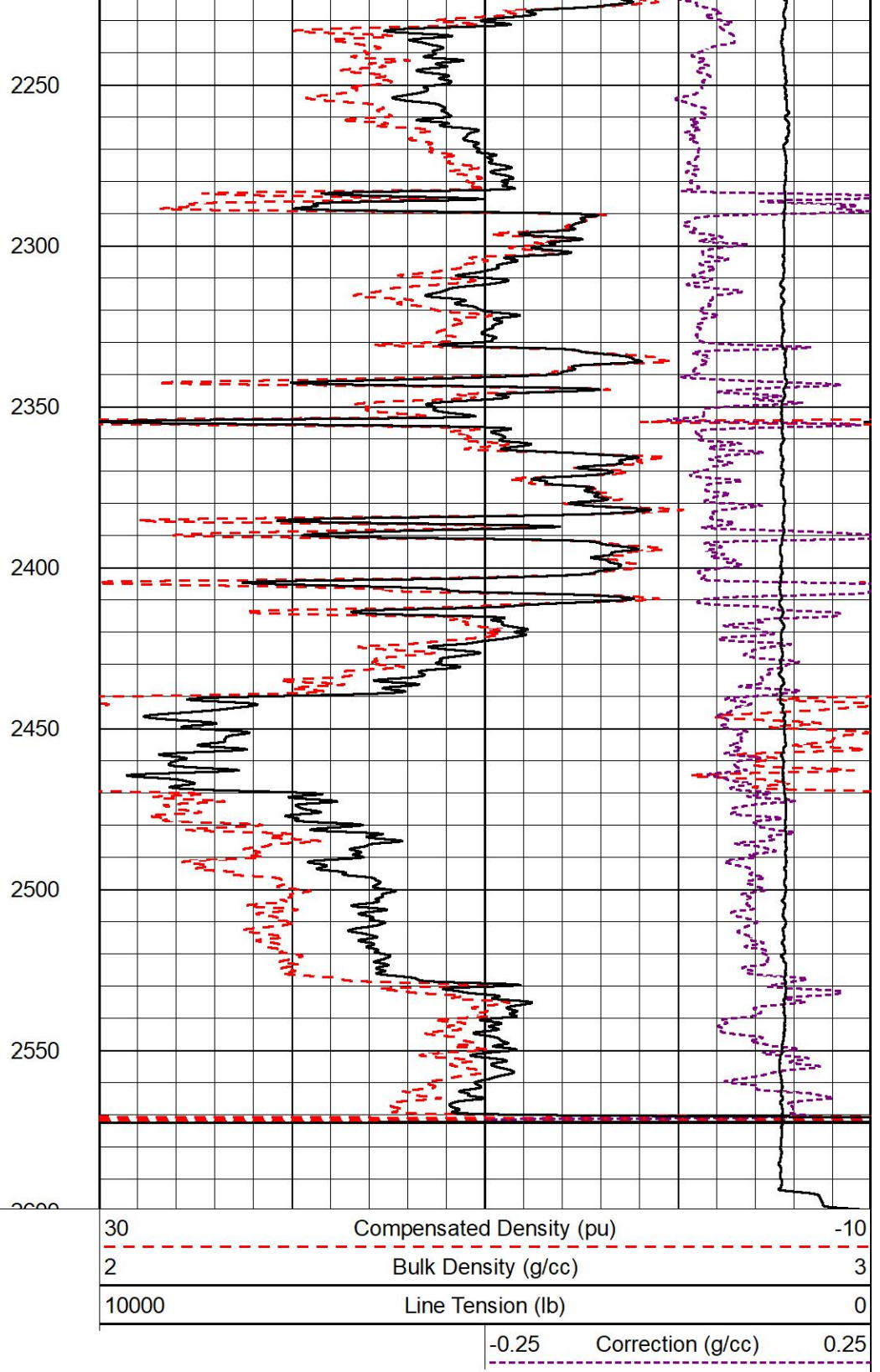
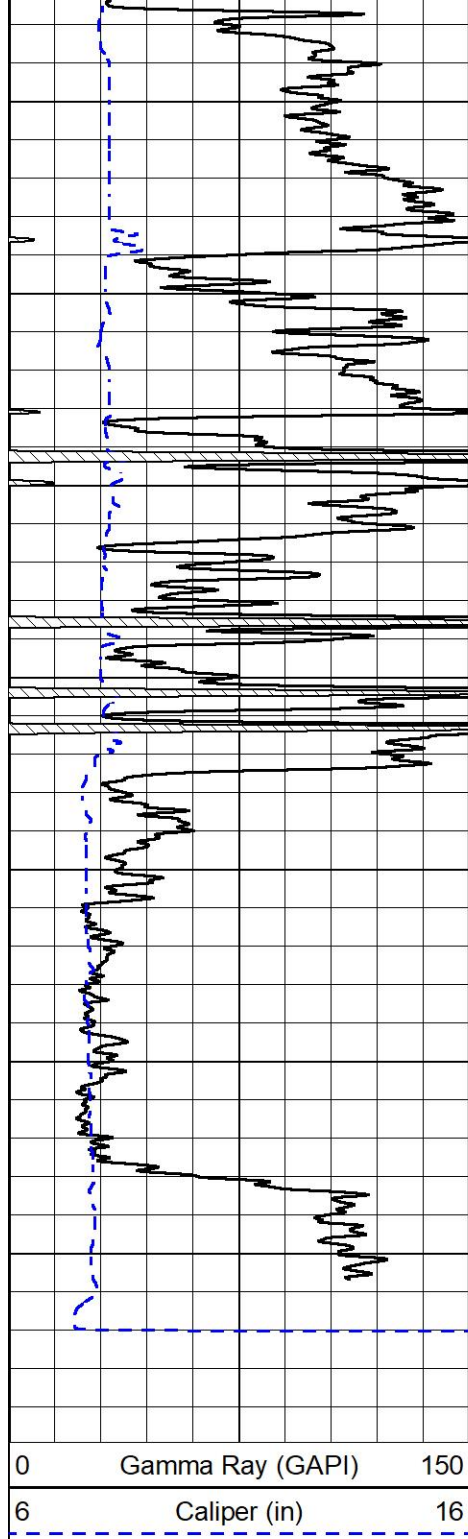
Database File epoc_eck a #3.db
Dataset Pathname well1/StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Mon Sep 19 02:12:09 2022
Charted by Depth in Feet scaled 1:600

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







MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

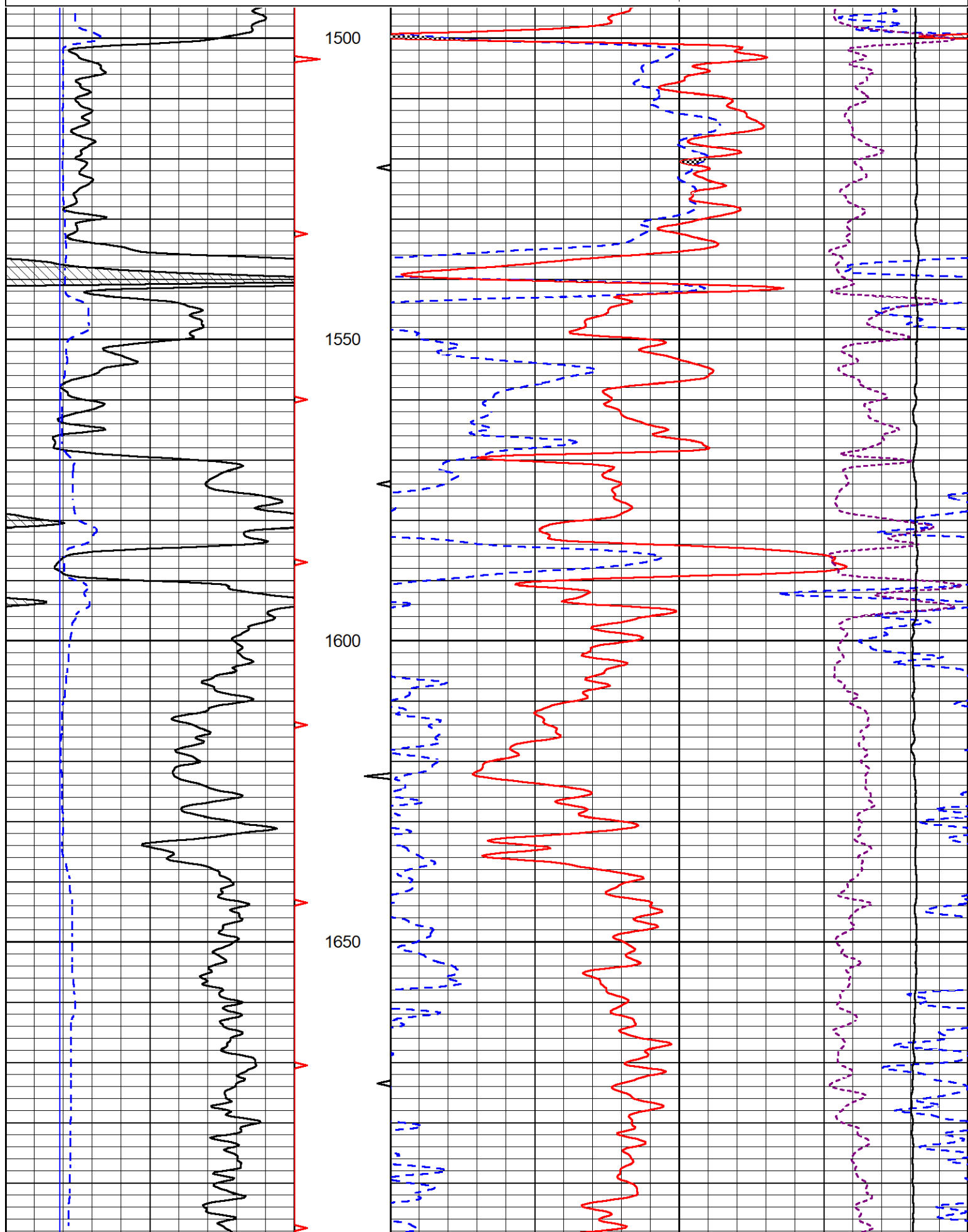
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 Dataset Pathname well1/StkMI/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Mon Sep 19 02:27:36 2022
 Charted by Depth in Feet scaled 1:240

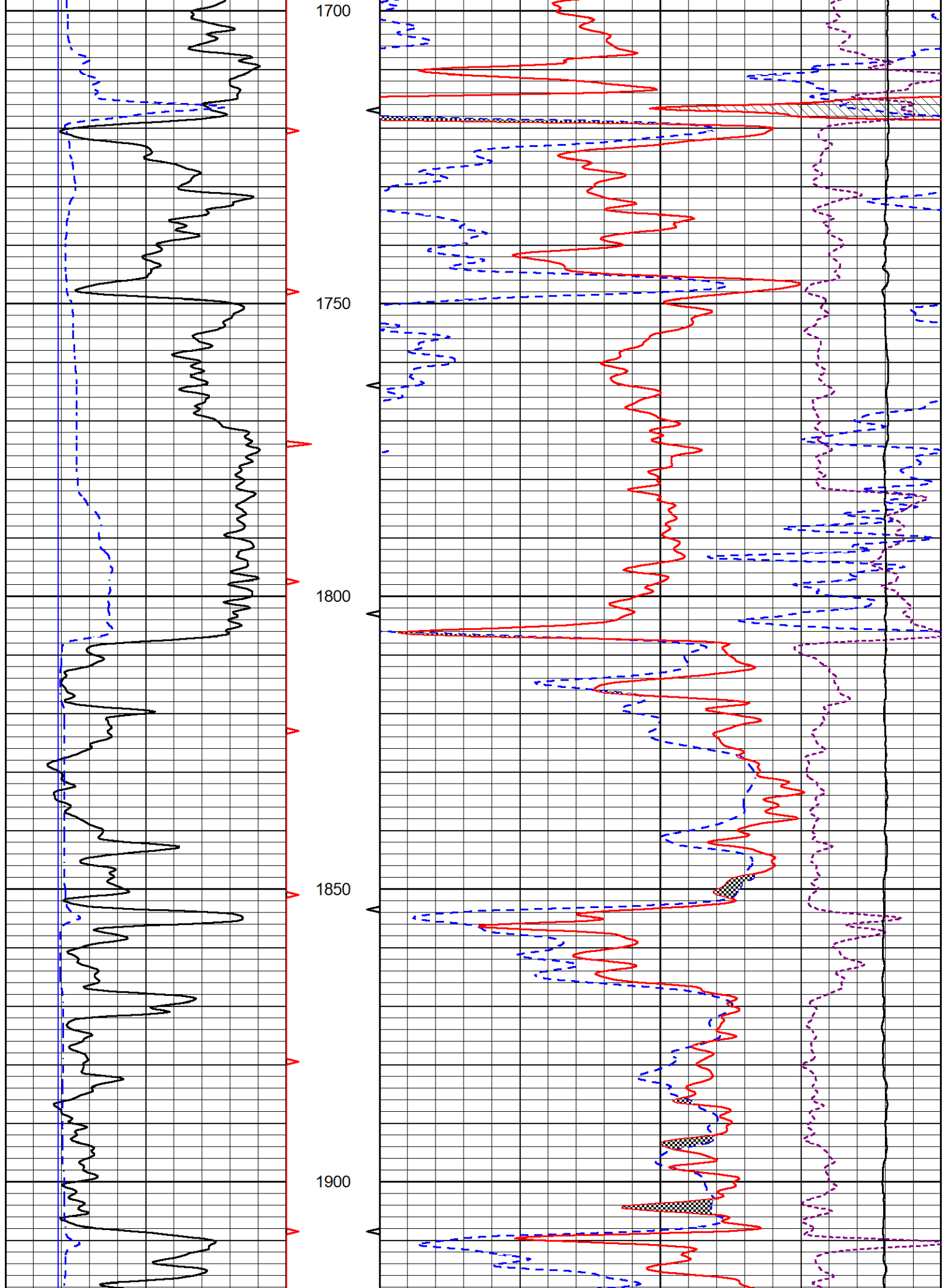


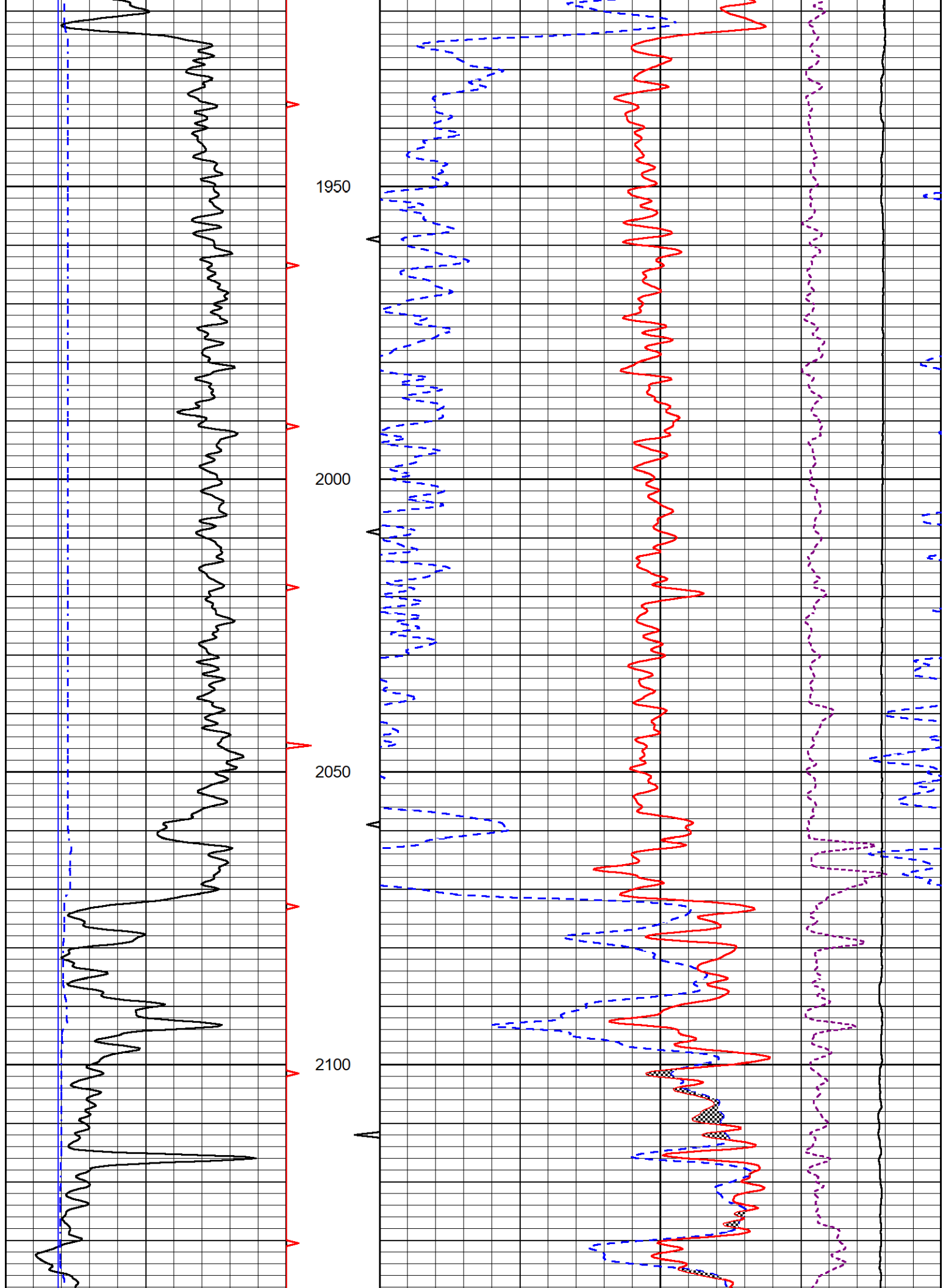
6	Caliper (in)	16
2.875	DCAL (in)	7.875

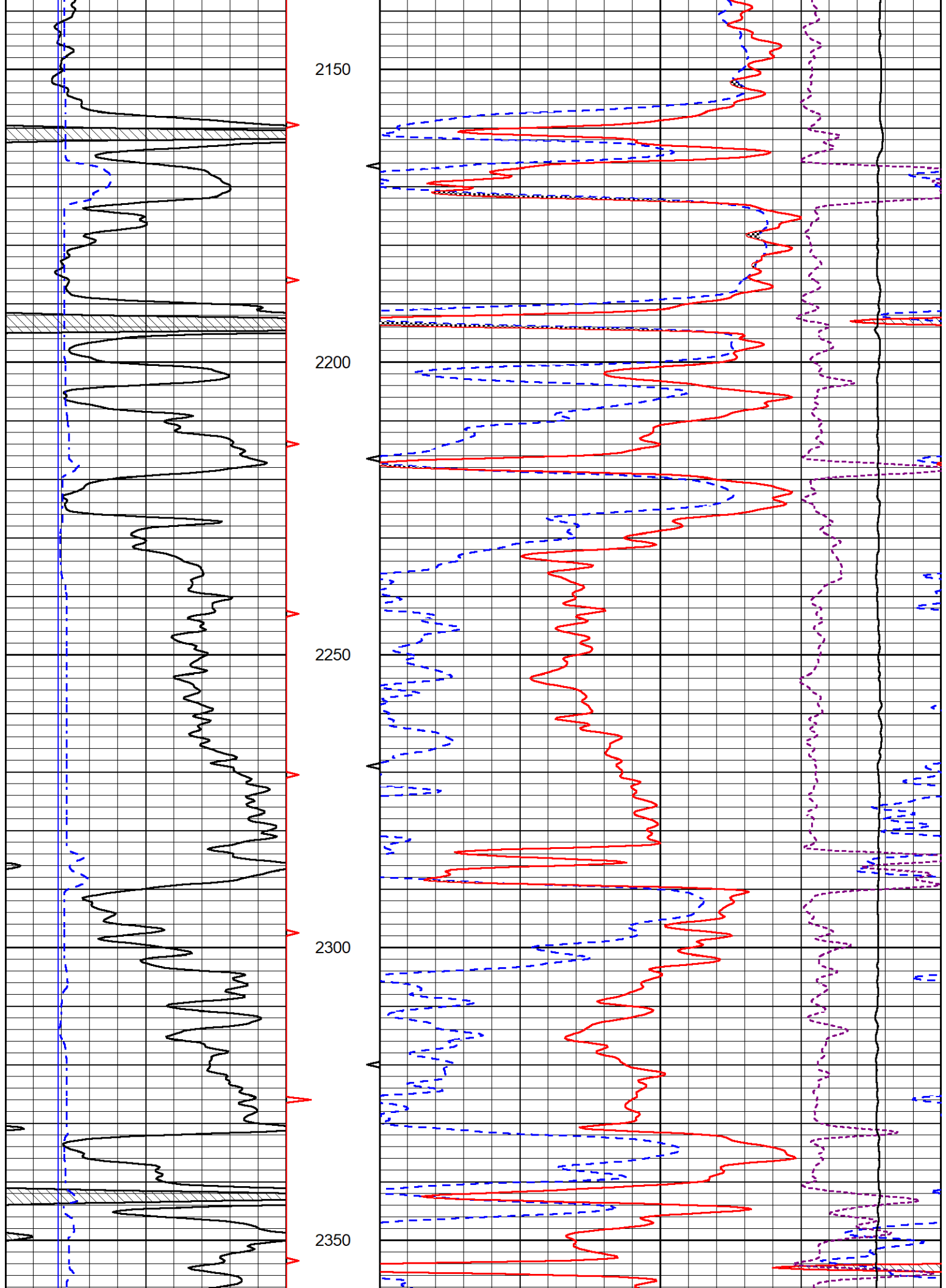
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10000	Line Tension (lb)	0

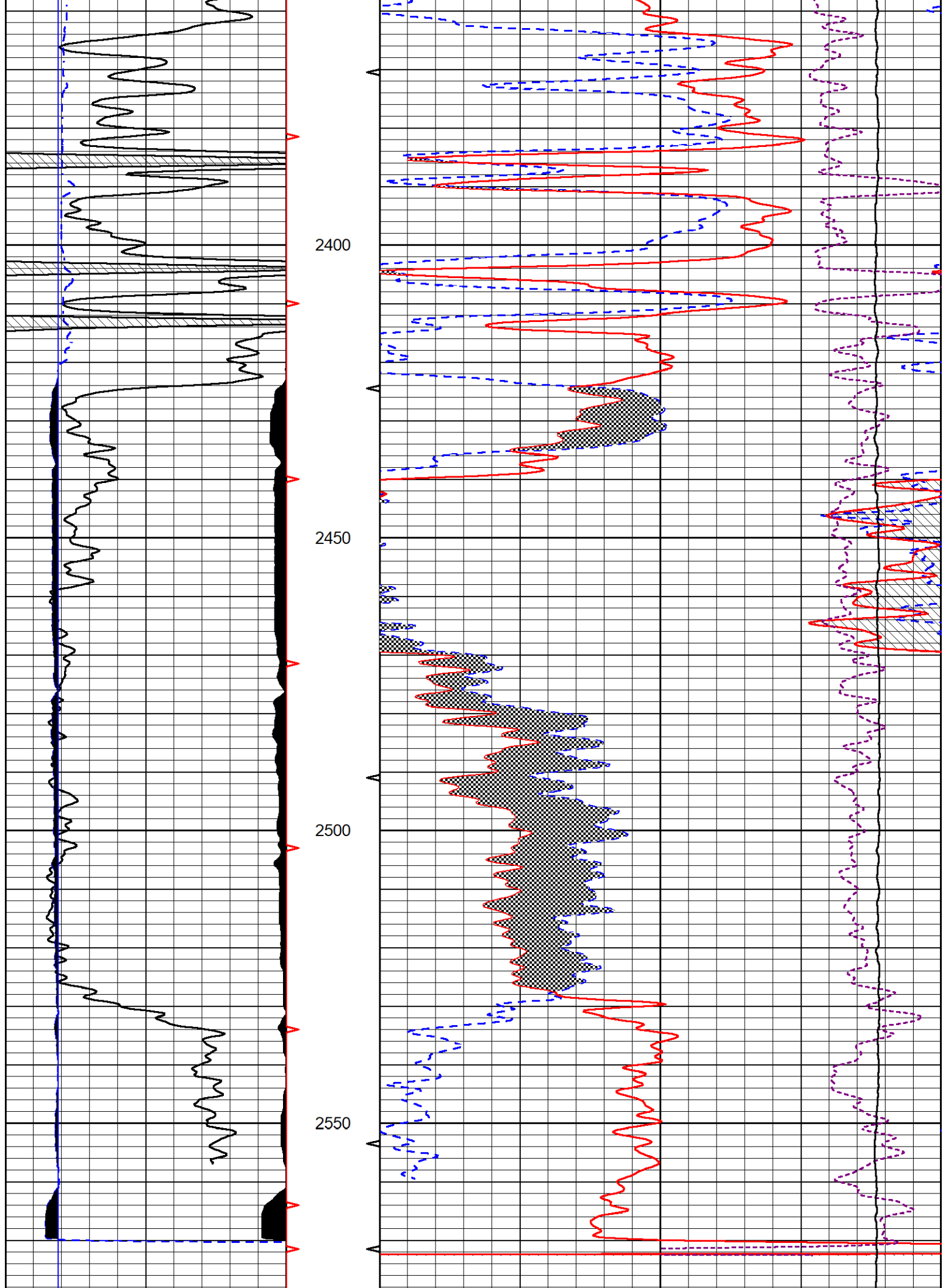
-0.25	Correction (g/cc)	0.25
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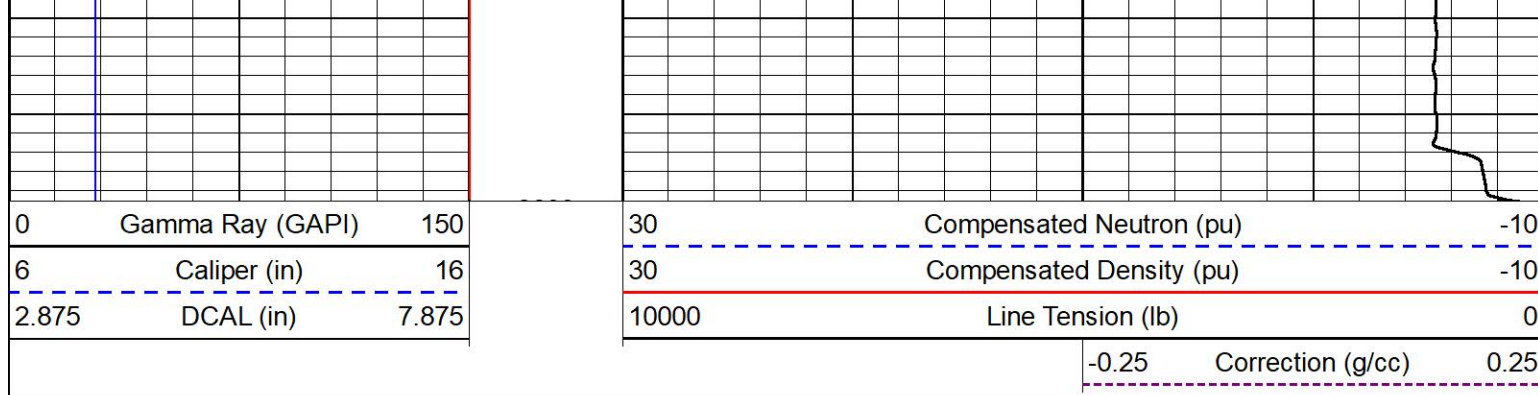










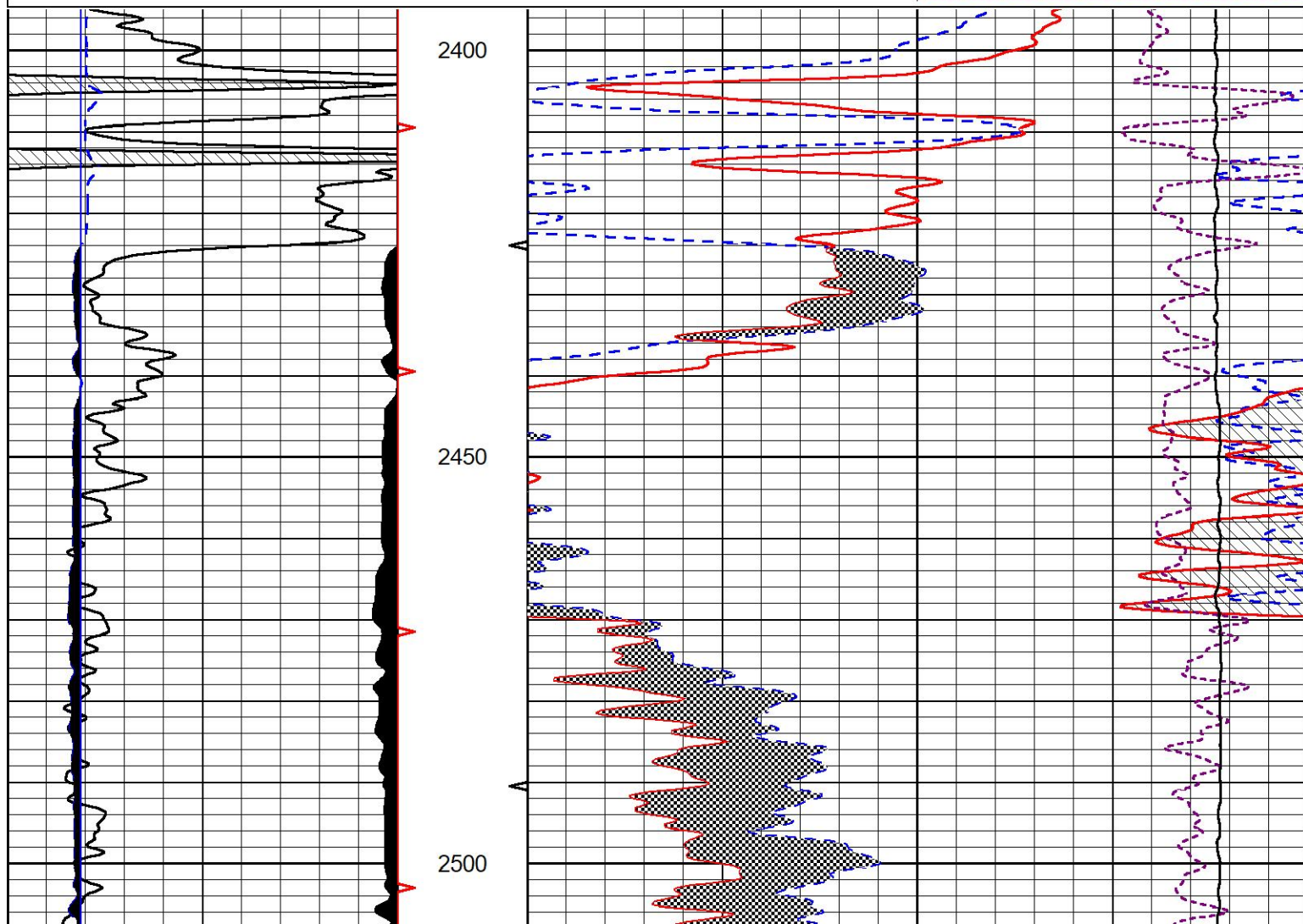
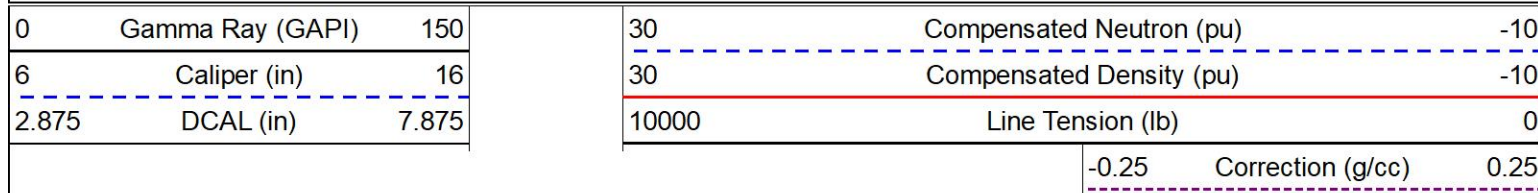


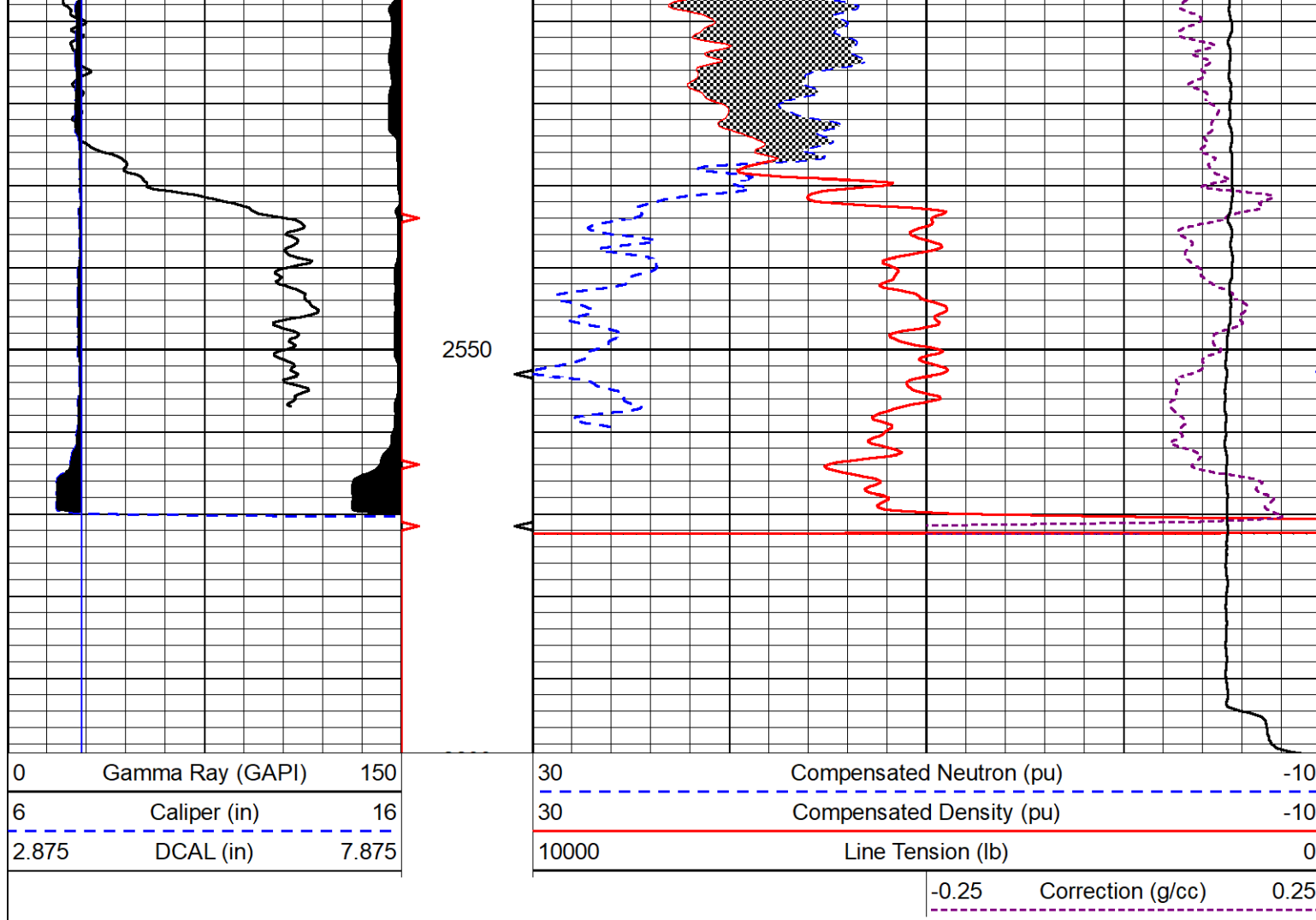
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File epoc_eck a #3.db
 Dataset Pathname well1/StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Mon Sep 19 02:03:45 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File epoc_eck a #3.db
 Dataset Pathname well1/StkMI/pass3.1
 Dataset Creation Mon Sep 19 02:27:36 2022

Dual Induction Calibration Report

Serial-Model: 501 HT-M&W
 Surface Cal Performed: Sun Sep 11 11:20:04 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-39.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.305	-35.000

Microlog Calibration Report

Serial-Model: 402-PSIML
 Performed: Fri Sep 9 11:18:26 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	10000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	10000.0000	-0.7000
Caliper	1.0052	1.0858	5.0000	16.5000	in	120.0000	-115.8500

Compensated Density Calibration Report					
Serial-Model:		307-11-M&W			
Source #:		20762B			
Master Calibration Performed:		Sat Aug 27 10:20:16 2022			
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3600.52	4768.22	cps
Aluminum	2.670	g/cc	693.98	3106.20	cps
Spine Angle = 75.41			Density/Spine Ratio = 0.538		
	Size		Reading		
Small Ring	6.00	in	1.16		
Large Ring	18.00	in	1.01		

Compensated Neutron Calibration Report						
Serial Number: Tool Model:			207-MW 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
PRE-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space	cps				
	Long Space	cps		pu	pu	
2)	Short Space	cps				
	Long Space	cps		pu		
3)	Short Space	cps				
	Long Space	cps		pu		
POST-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space	cps				
	Long Space	cps		pu	pu	
2)	Short Space	cps				
	Long Space	cps		pu	pu	
3)	Short Space	cps				
	Long Space	cps		pu	pu	

Gamma Ray Calibration Report					
Serial Number:		106			
Tool Model:		M&W			
Performed:		Fri Dec 3 15:10:46 2021			
Calibrator Value:		500.0		GAPI	

Calibrator:	Value:	0.0010	Unit:	cps
Background Reading:	24.0		cps	
Calibrator Reading:	637.0		cps	
Sensitivity:	0.5500		GAPI/cps	



MIDWEST WIRELINE

Company	EPOC LLC
Well	Eck 'A' #3
Field	Hazlett
County	Butler
State	Kansas