



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company American Warrior, Inc.
Well O'Brate-Finney #11-5
Field Seven Mile
County Finney State Kansas

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State Kansas

Location: API #: 15-055-22571-00-00
1042 FNL & 1314 FWL
SEC 5 TWP 23S RGE 32W
Permanent Datum Ground Level Elevation 2857
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/MEL
K.B. 2870
D.F.
G.L. 2857

Date 3/25/2023

Run Number One
Type Log CNL/CDL
Depth Driller 4900
Depth Logger 4905
Bottom Logged Interval 4876
Top Logged Interval 3800
Type Fluid In Hole Chemical
Salinity, PPM CL 4200
Density 9.2
Level Full
Max. Rec. Temp. F 125
Operating Rig Time 2 Hours
Equipment -- Location P-24 Hays
Recorded By T. Martin
Witnessed By Kevin Timson

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	1775	8.625	23	00	1775
Two	7.875	1775	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.

Garden City, KS, N on 83 to 6 Mi Rd,
1 E, 2 N, E into

Log Measured From: Kelly Bushing 13 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: Kevin Timson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\amwar_obratefinney #10-5.db
Dataset field/well/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	125	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	50	40		4905

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



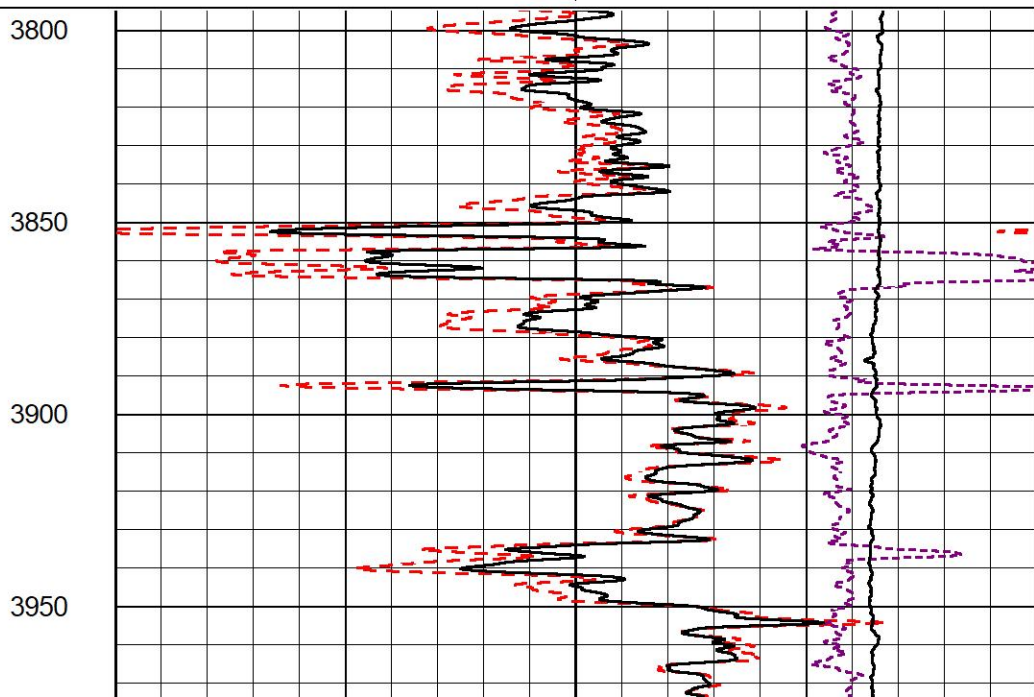
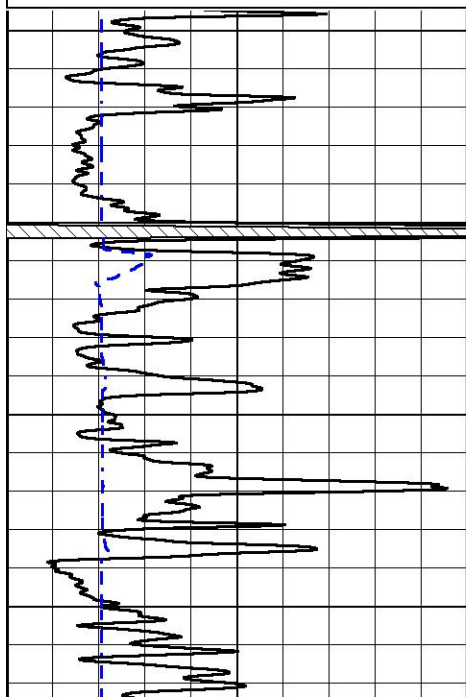
2" SCALE BULK DENSITY

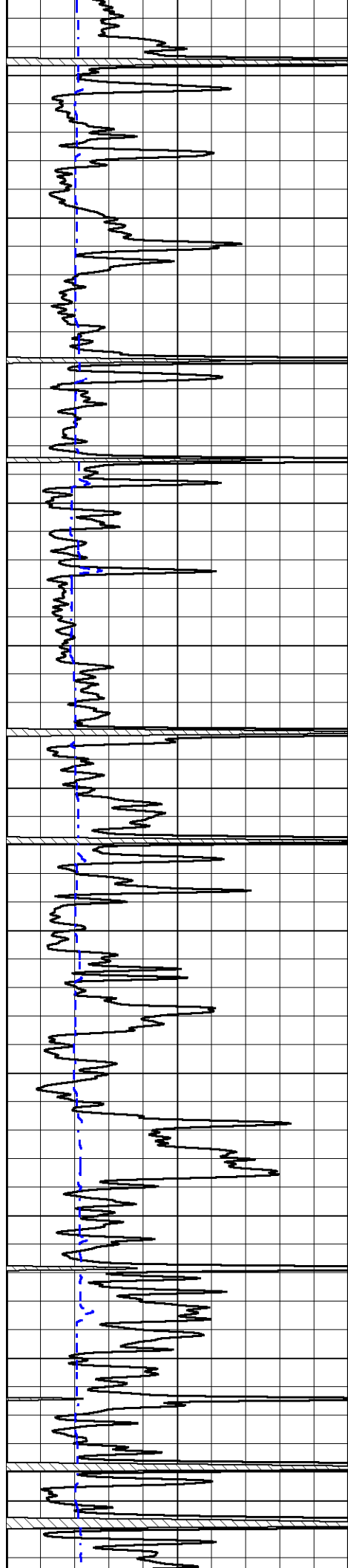
MAIN PASS

Database File amwar_obratefinney #10-5.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Sat Mar 25 13:42:10 2023
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





4000

4050

4100

4150

4200

4250

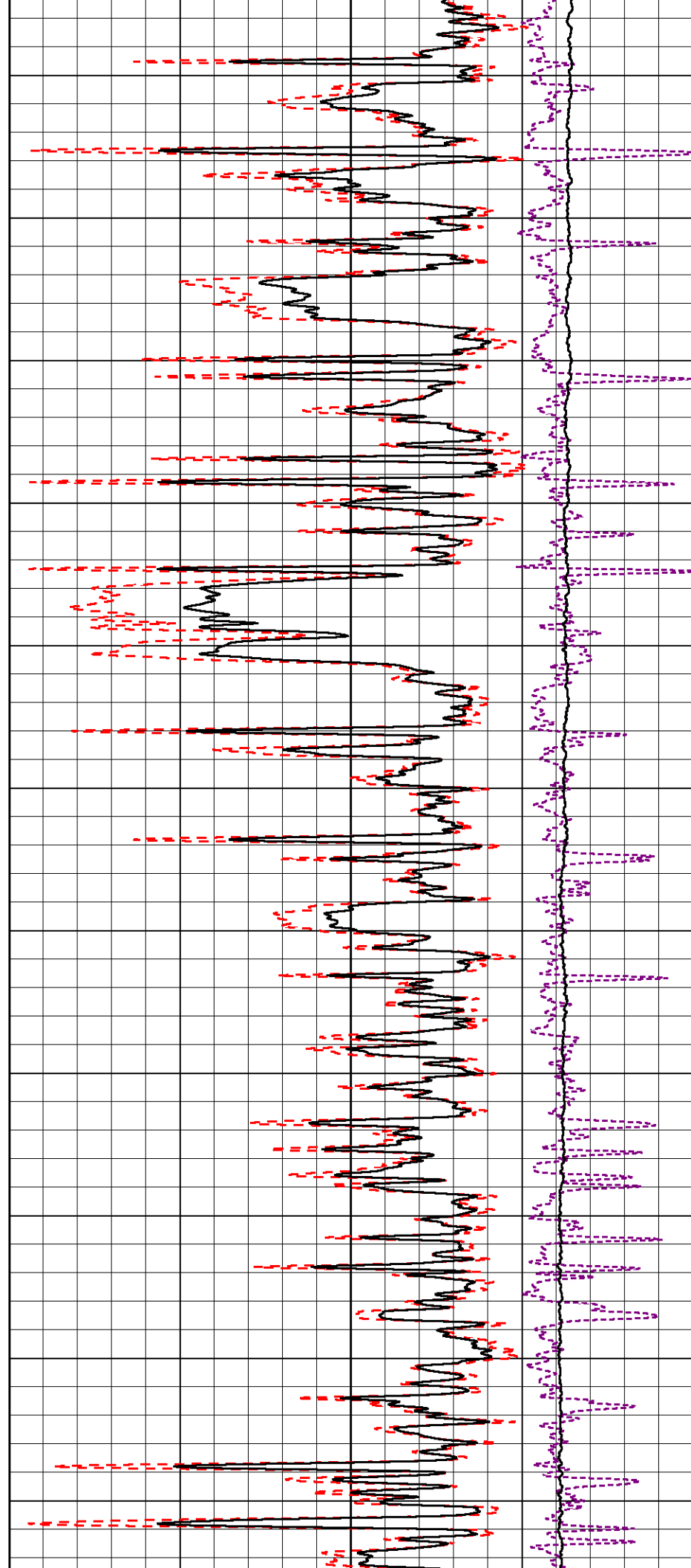
4300

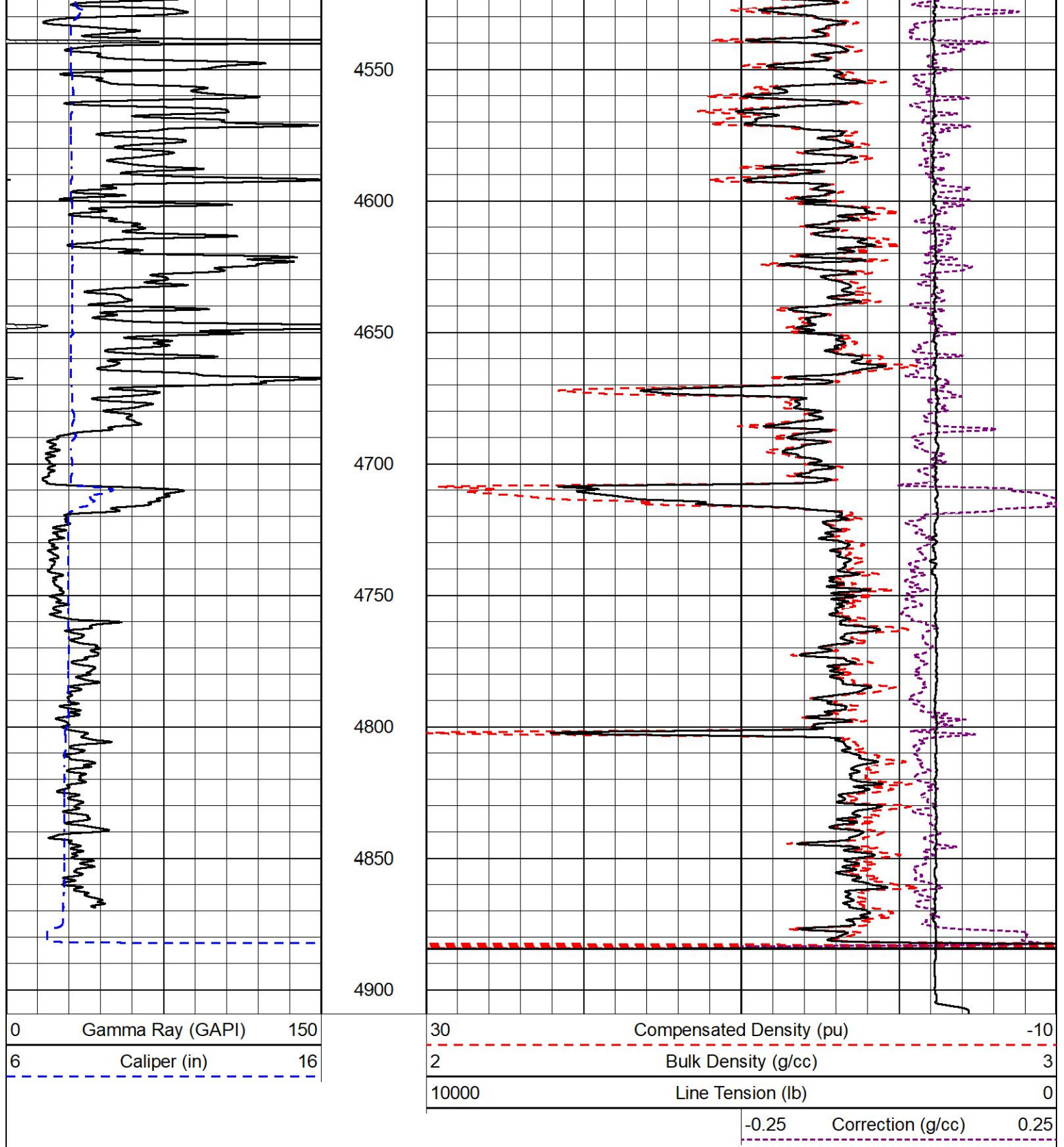
4350

4400

4450

4500





DETAIL SECTION

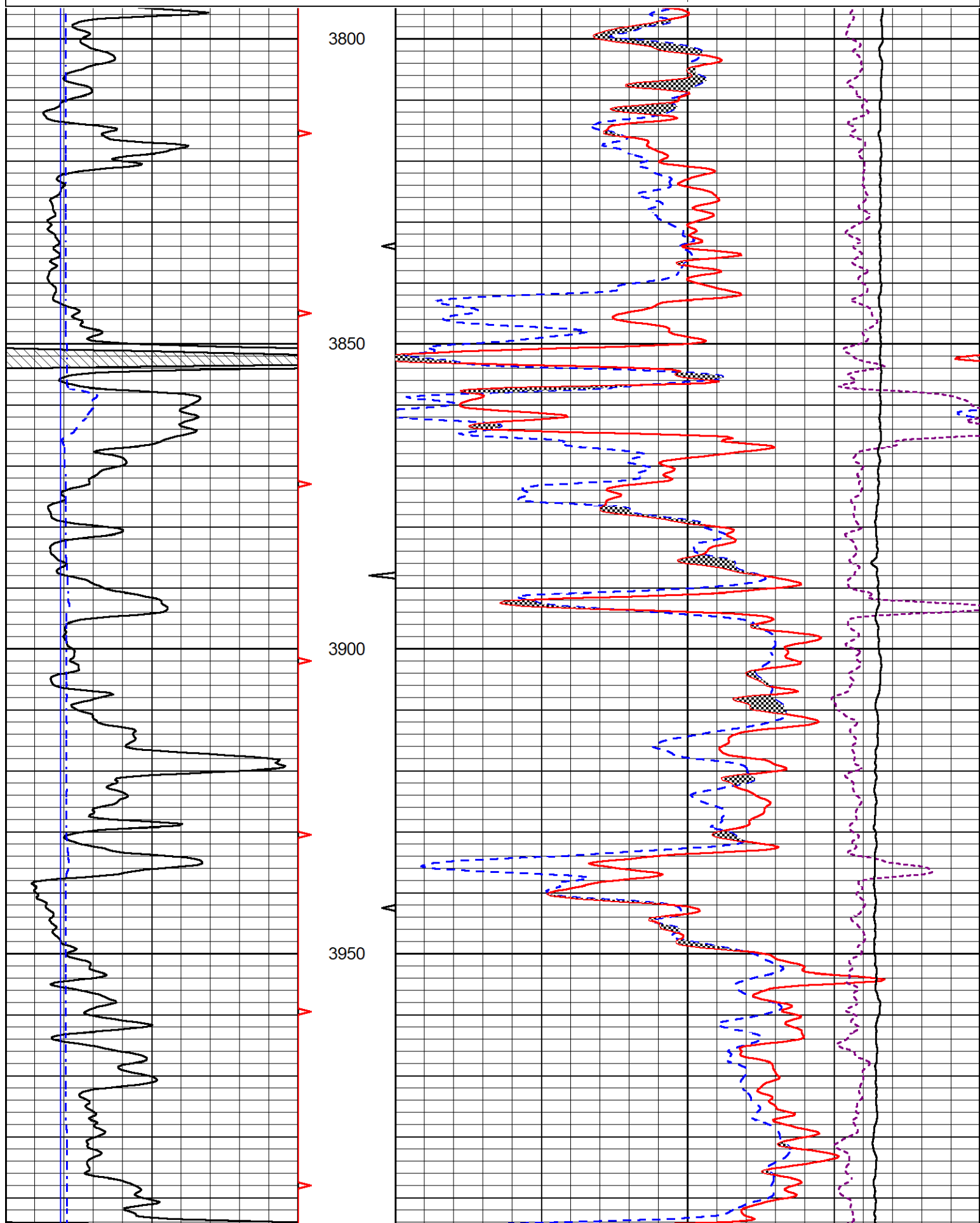
MAIN PASS

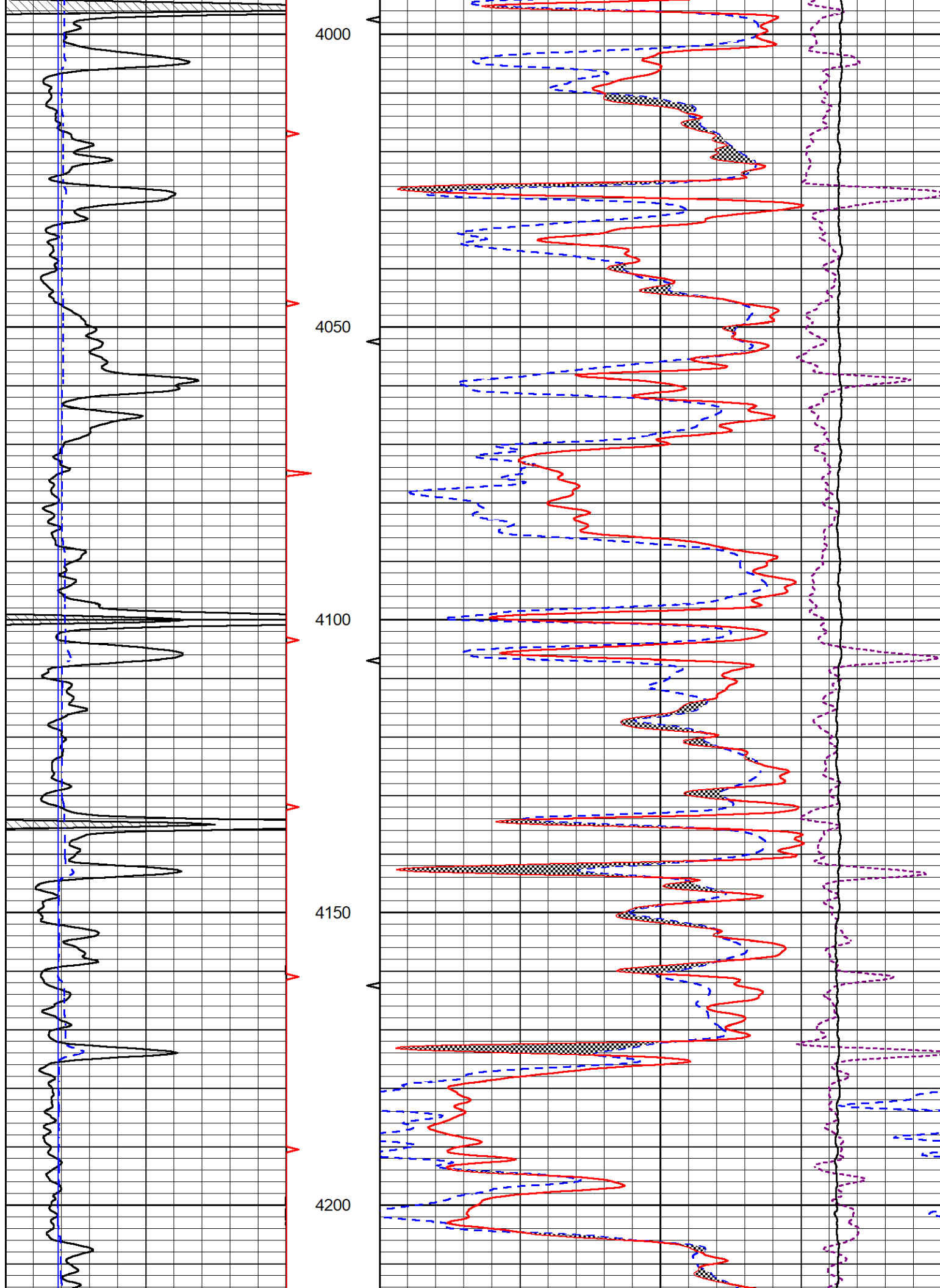
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Dataset Pathname	StkMI/pass3.1
Presentation Format	_CNDLS~1
Dataset Creation	Sat Mar 25 14:05:11 2023
Charted by	Depth in Feet scaled 1:240

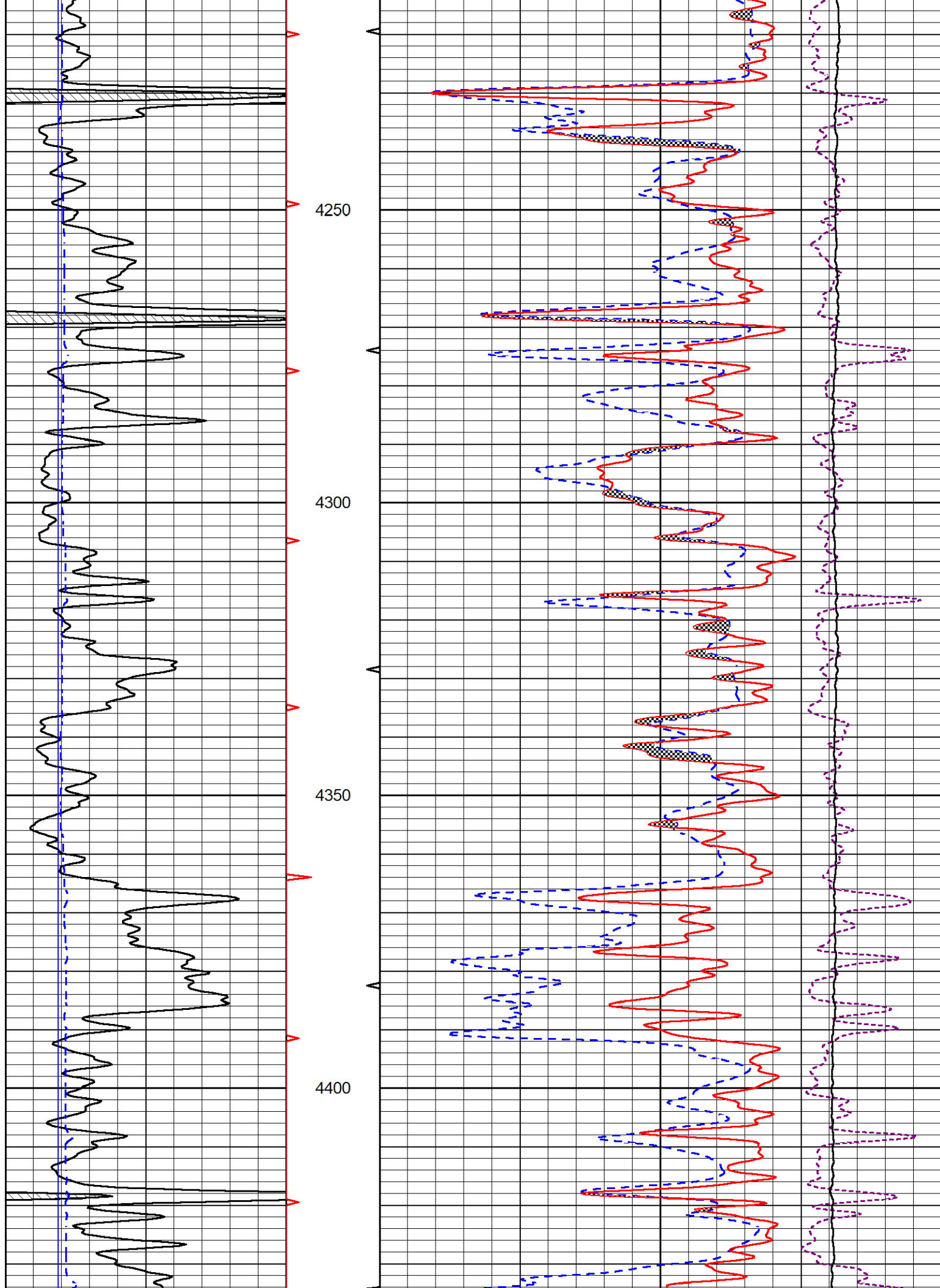
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	DCAL (in)	7.875

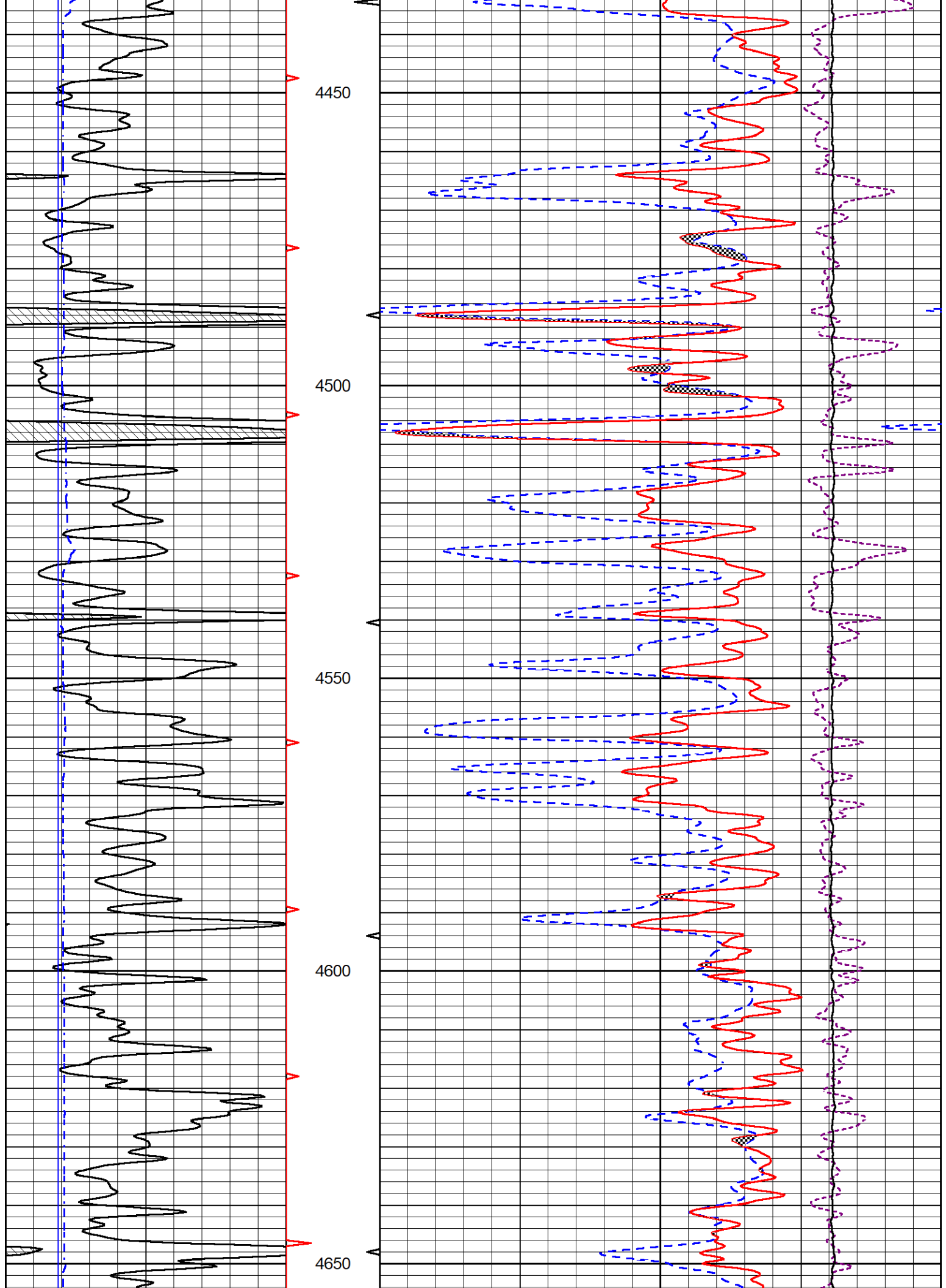
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0

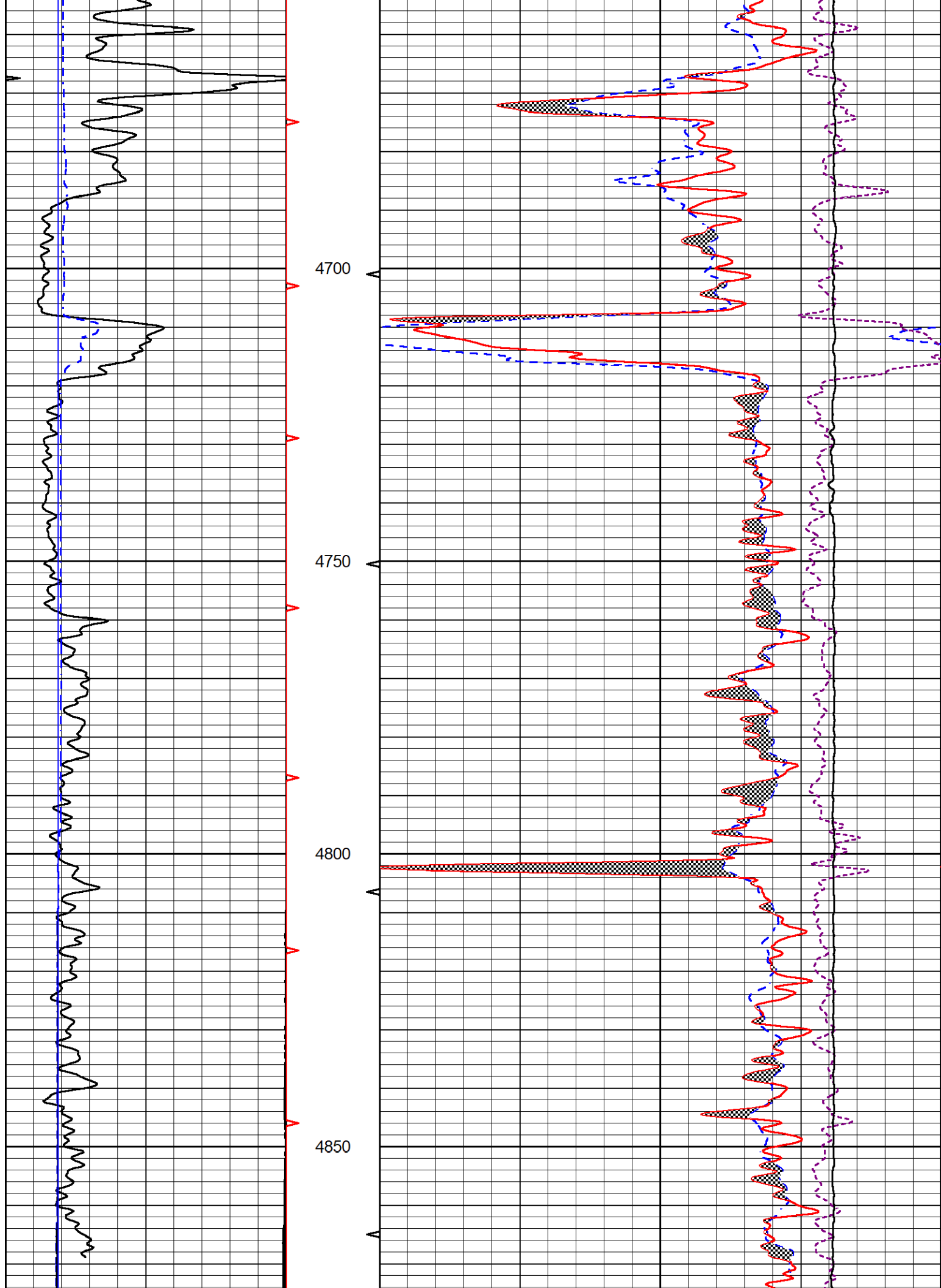
-0.25	Correction (g/cc)	0.25
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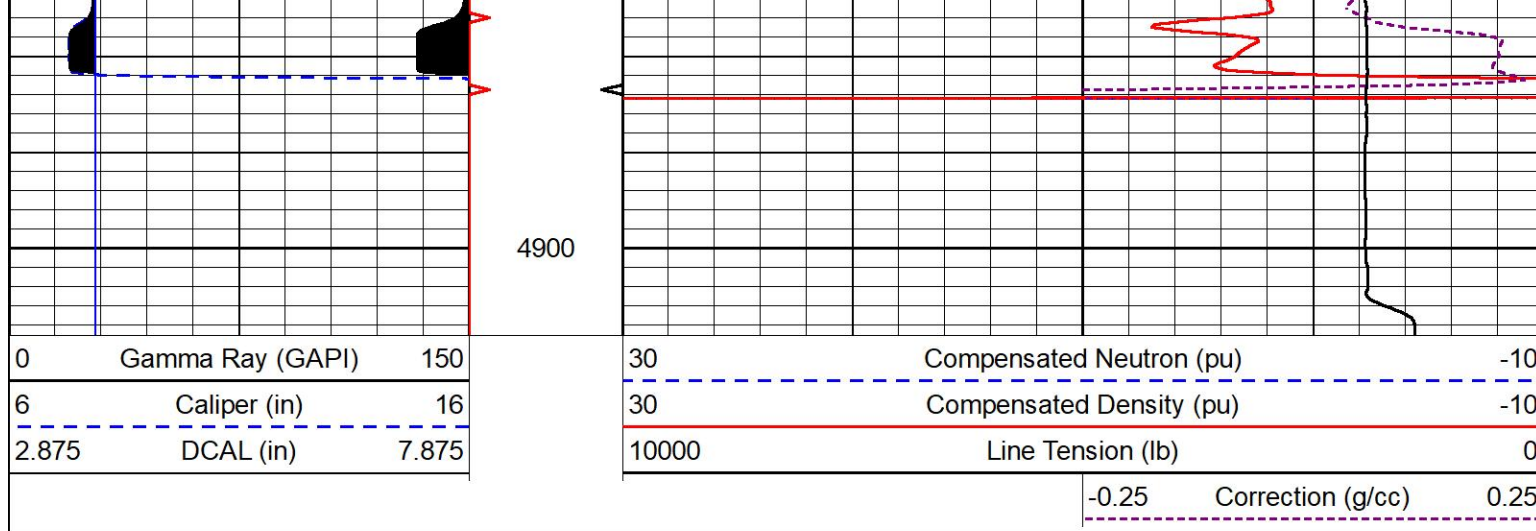










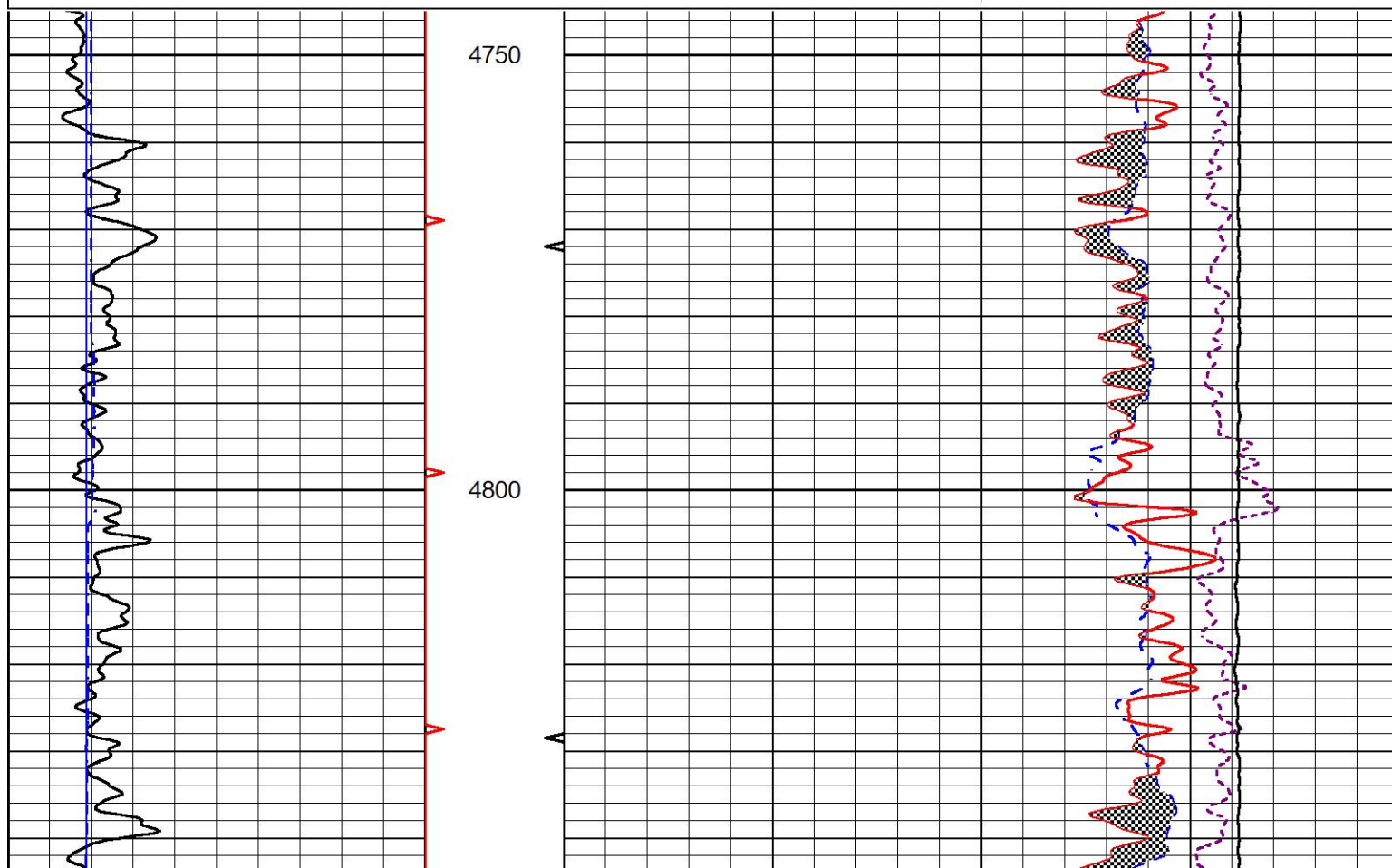
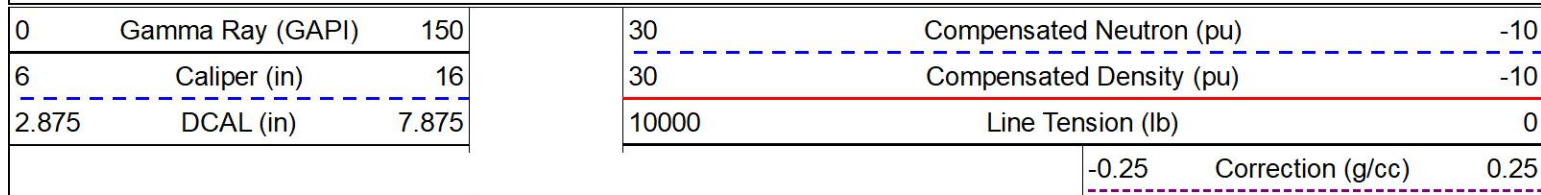


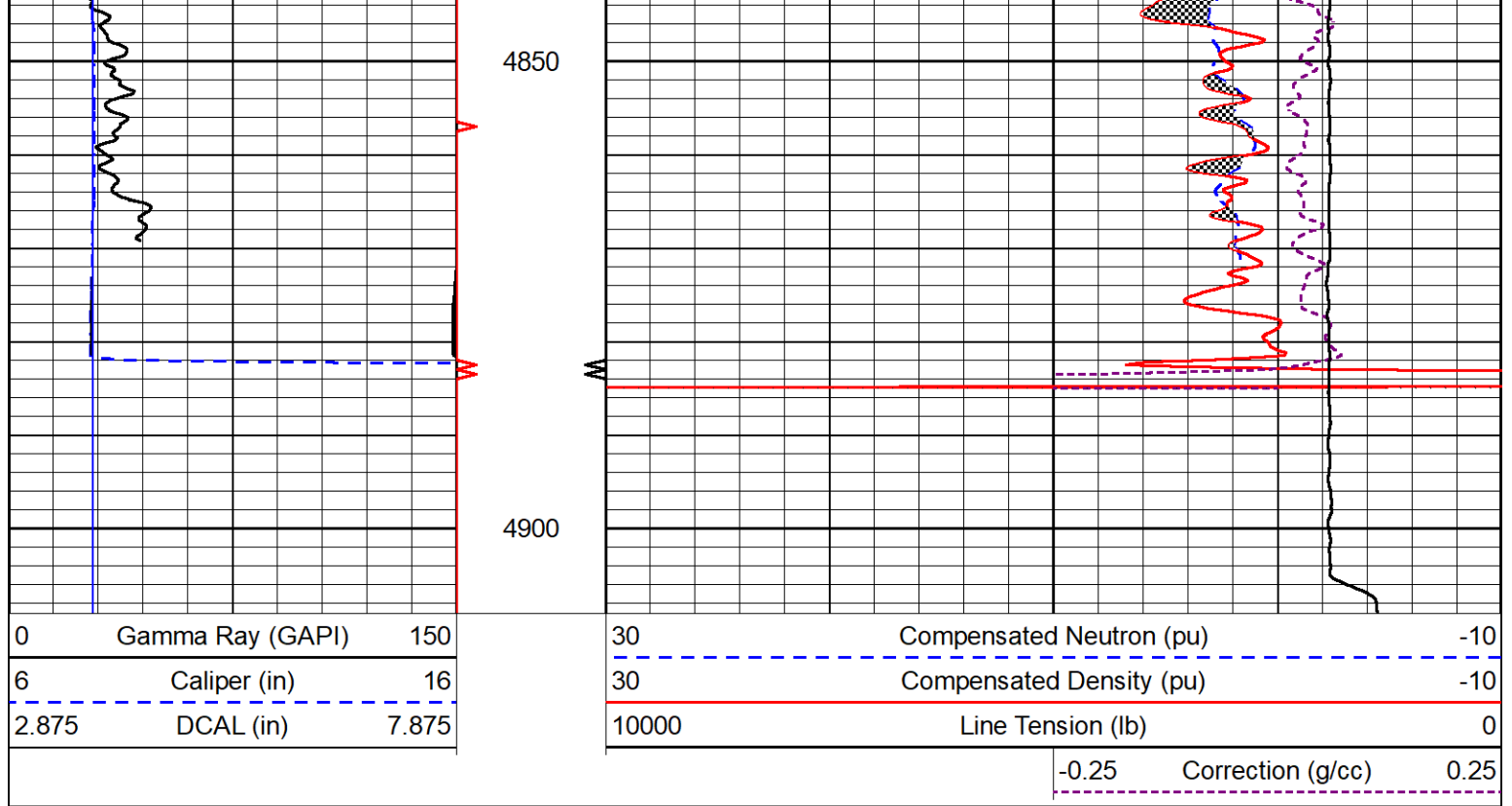
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File amwar_obratefinney #10-5.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Sat Mar 25 13:34:56 2023
 Charted by Depth in Feet scaled 1:240





Calibration Report							
Database File	amwar_obratefinney #10-5.db						
Dataset Pathname	StkMI/pass3.1						
Dataset Creation	Sat Mar 25 14:05:11 2023						
Dual Induction Calibration Report							
Serial-Model:				507-M&W			
Surface Cal Performed:				Sun Mar 19 18:02:16 2023			
		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	67.445	566.296	0.000	255.800	mmho/m	0.480	-32.000
Medium	192.026	839.715	0.000	255.800	mmho/m	0.420	-86.500
Microlog Calibration Report							
Serial-Model:				401-PSIML			
Performed:				Mon Mar 20 04:31:34 2023			
		Readings		References		Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	10000.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	11250.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.9500
Compensated Density Calibration Report							
Serial-Model:				307-08-M&W			
Source #:				20762B			
Master Calibration Performed:				Sat Feb 25 11:00:49 2023			

Master Calibration					
	Density			Far Detector	Near Detector
Magnesium	1.755	g/cc		4131.04	5675.82 cps
Aluminum	2.635	g/cc		781.38	3576.78 cps
	Spine Angle = 74.50			Density/Spine Ratio = 0.509	
	Size			Reading	
Small Ring	6.00	in		1.16	
Large Ring	18.00	in		1.01	
Compensated Neutron Calibration Report					
	Serial Number:		207-MW		
	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
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	
	Background Reading:		24.0	cps	
	Calibrator Reading:		637.0	cps	
	Sensitivity:		0.5500	GAPI/cps	



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Well	O'Brate-Finney #11-5
Field	Seven Mile
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State	Kansas