



DUAL COMP POROSITY LOG

MIDWEST WIRELINE

Company luka-Carmi Devenopment LLC
Well Sessler #2
Field Chase-Silica
County Barton
State Kansas

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Location: API #: 15-009-26386-00-00
SE SE NW/NW
1290 FNL & 1135 FWL
SEC 27 TWP 20S RGE 11W
Permanent Datum Ground Level Elevation 1767
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL
MEL/BHCS
K.B. 1775
D.F.
G.L. 1767

Date 3/27/2023

Run Number One
Type Log CNL/CDL
Depth Driller 3429
Depth Logger 3427
Bottom Logged Interval 3398
Top Logged Interval 1300
Type Fluid In Hole Chemical
Salinity, PPM CL 9800
Density 9.0
Level Full
Max. Rec. Temp. F 110
Operating Rig Time 4.5 Hours
Equipment -- Location P-24 Hays
Recorded By T. Martin
Witnessed By Pat Deenihan

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	270	8.625	23	00	270
Two	7.875	270	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.

Ellinwood, KS, S to SE 50/SE 100,
3 E, 1/4 S, E into

Log Measured From: Kelly Bushing 8 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: Pat Deenihan
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\iuka-carmi_sessler #2.db
Dataset field/well/Stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	120	50	Off	3427

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

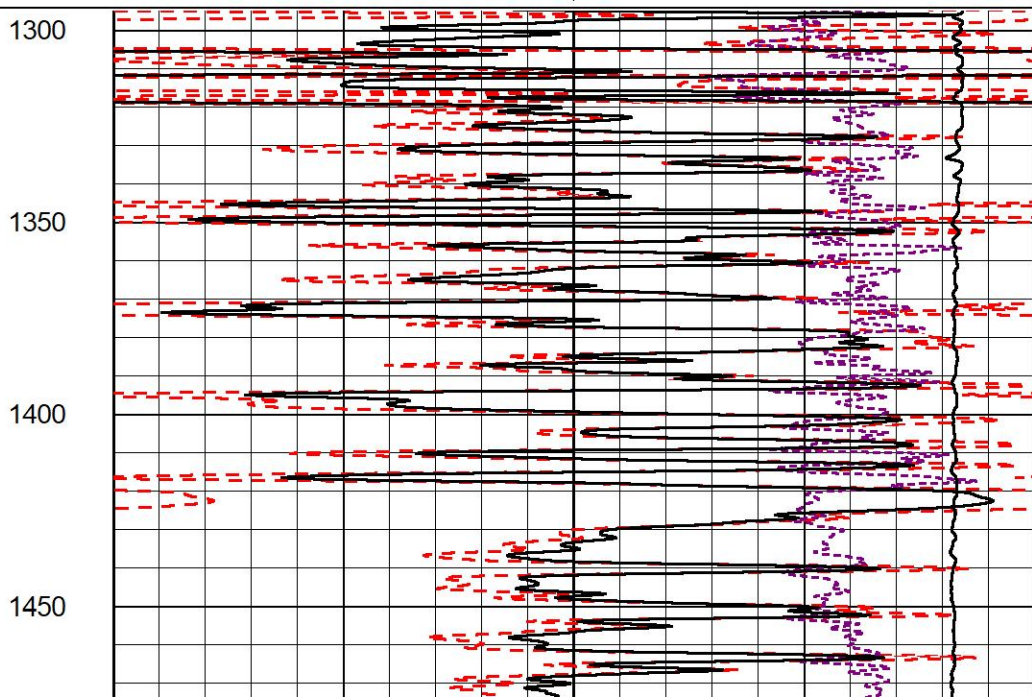
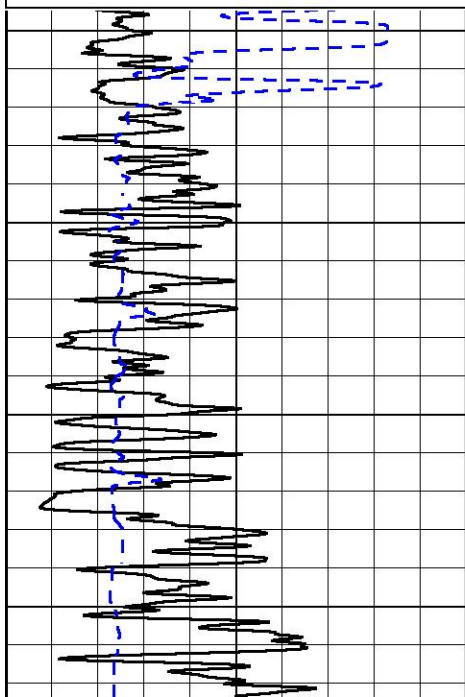
2" SCALE BULK DENSITY

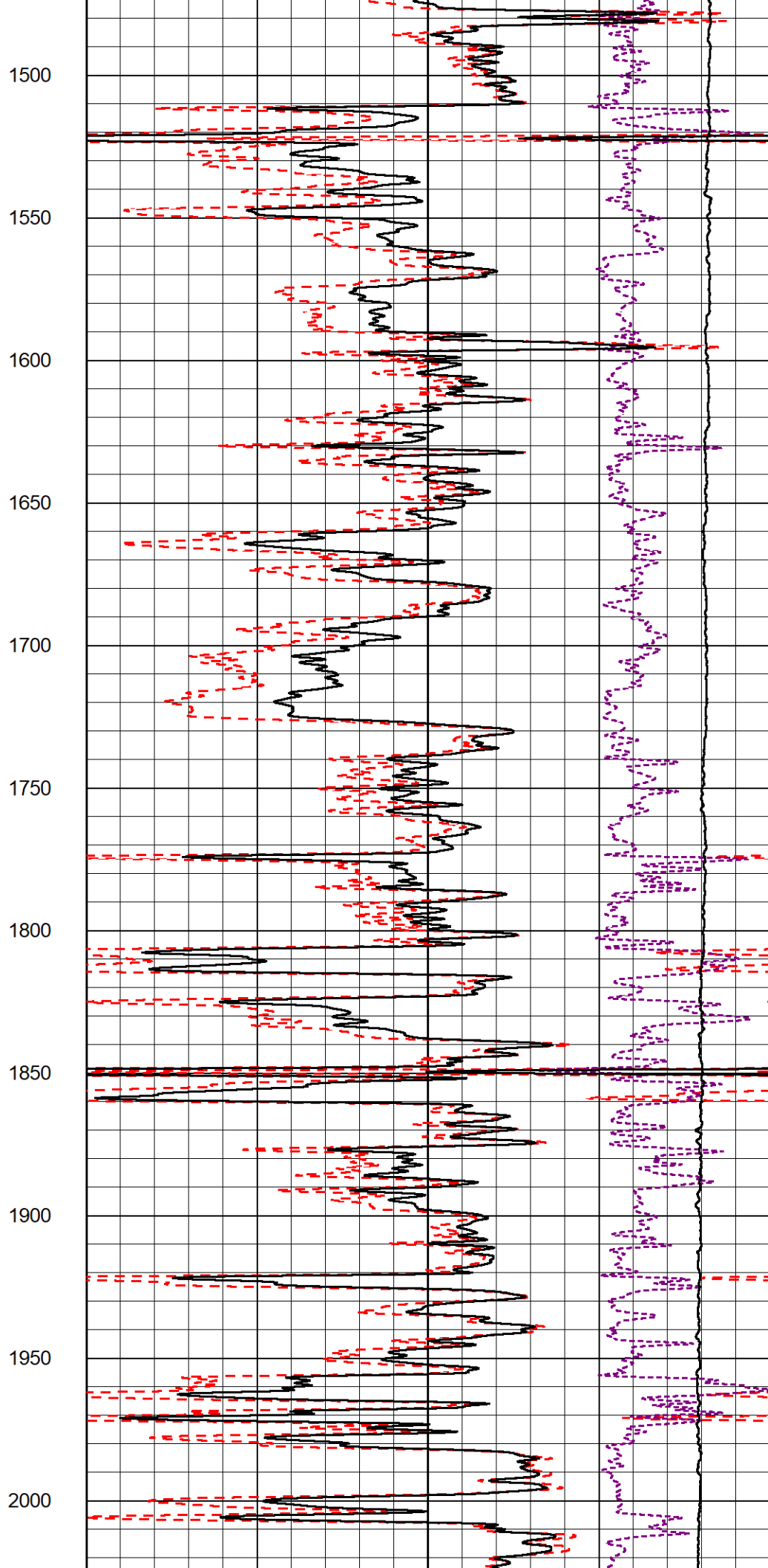
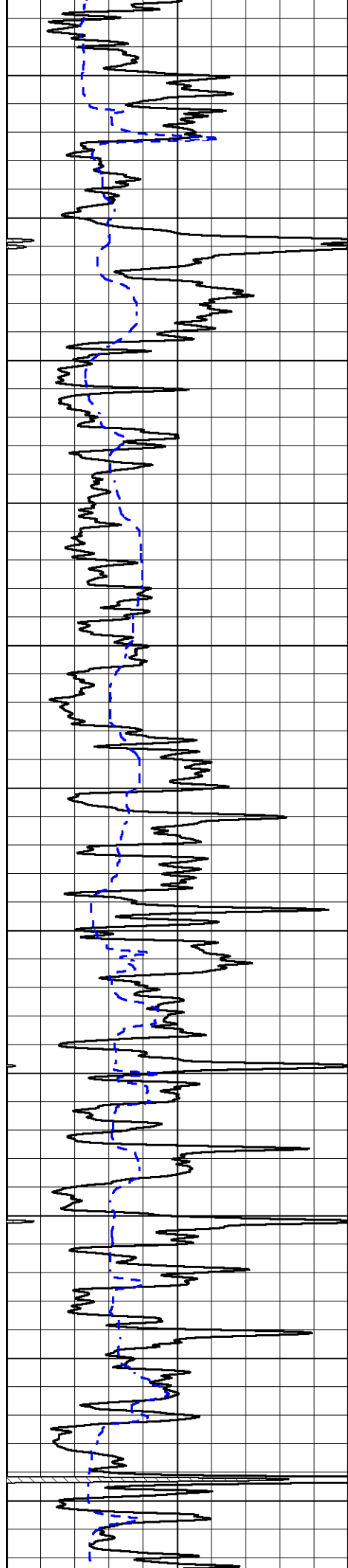
MAIN PASS

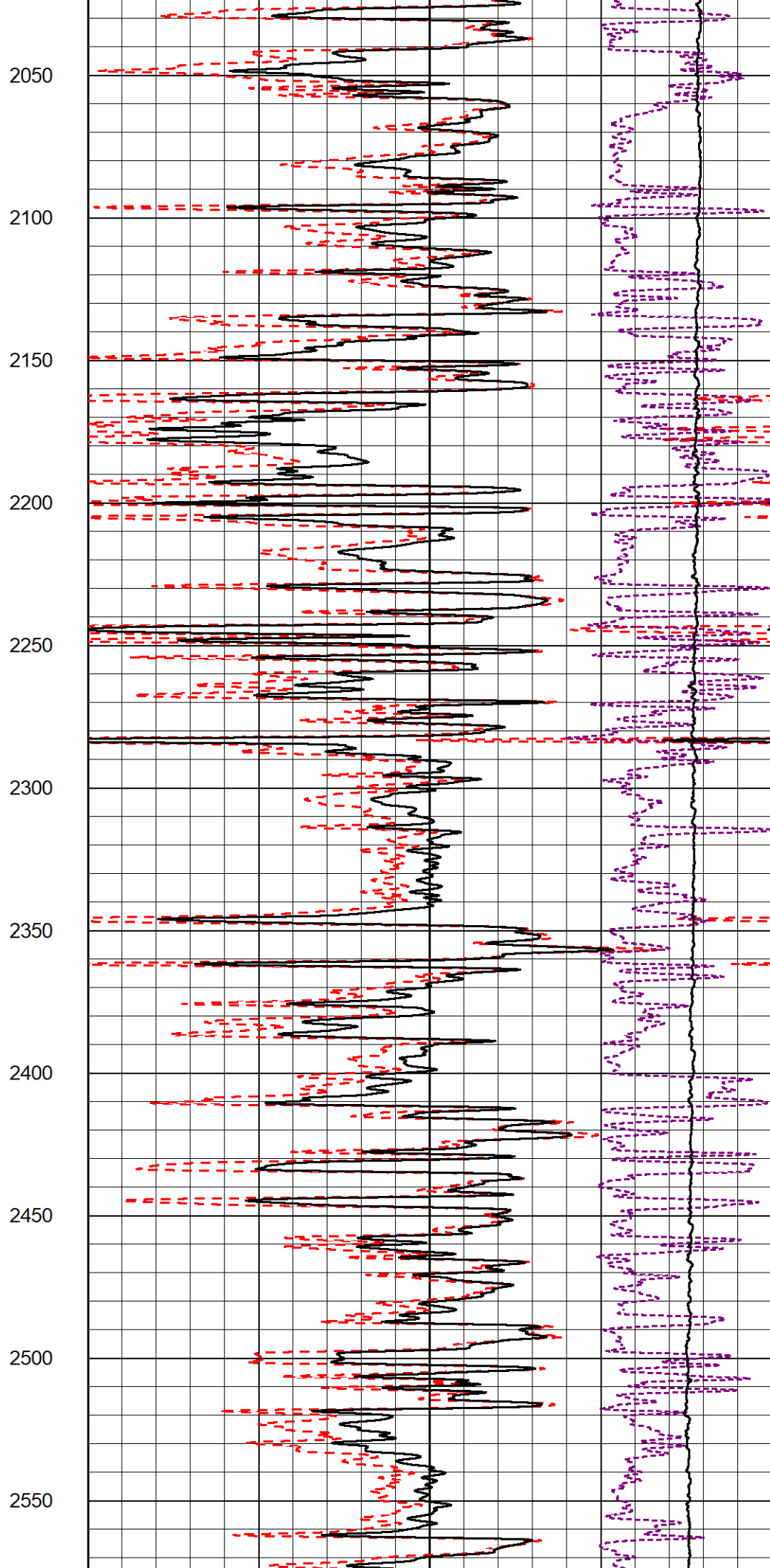
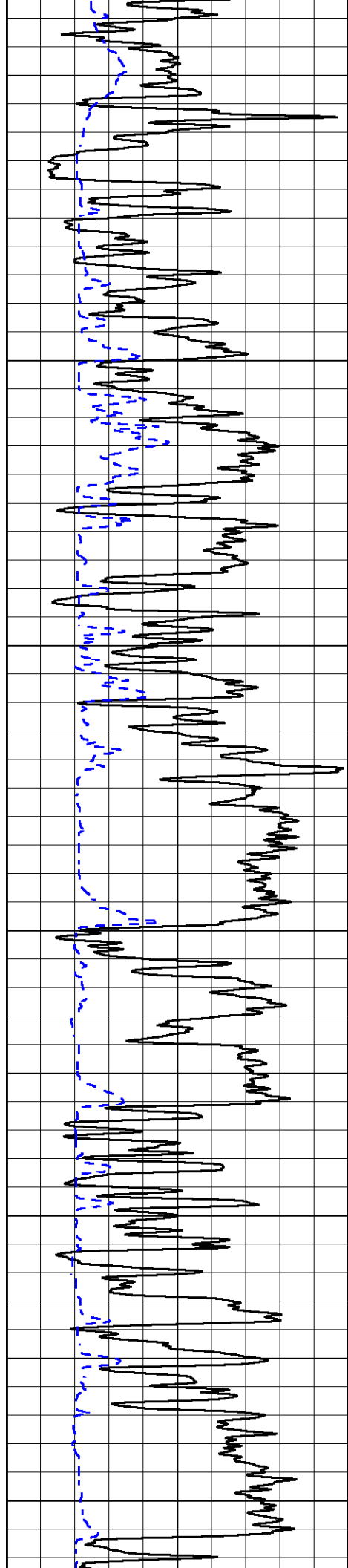
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Dataset Pathname Stack/pass3.3
Presentation Format _cdl
Dataset Creation Mon Mar 27 16:27:35 2023
Charted by Depth in Feet scaled 1:600

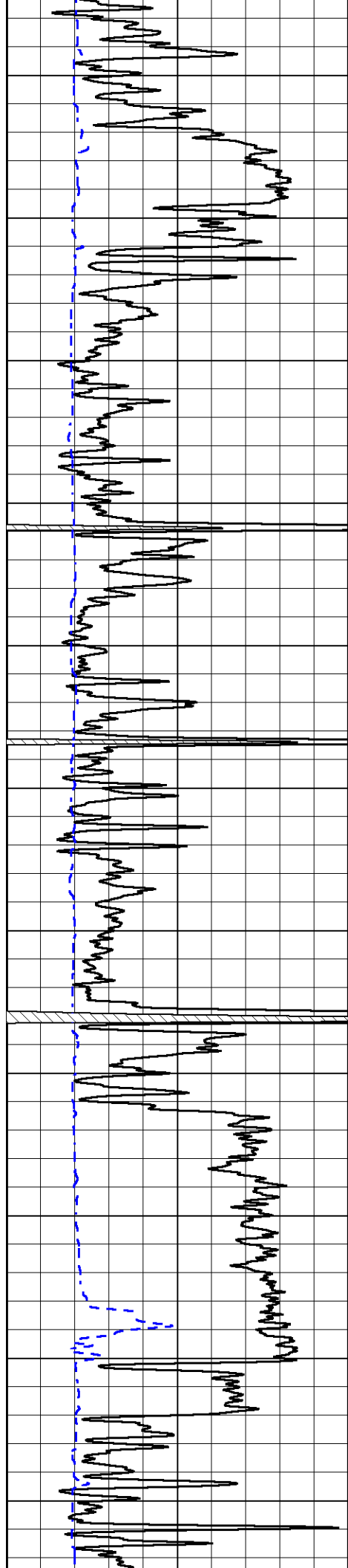
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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









2600

2650

2700

2750

2800

2850

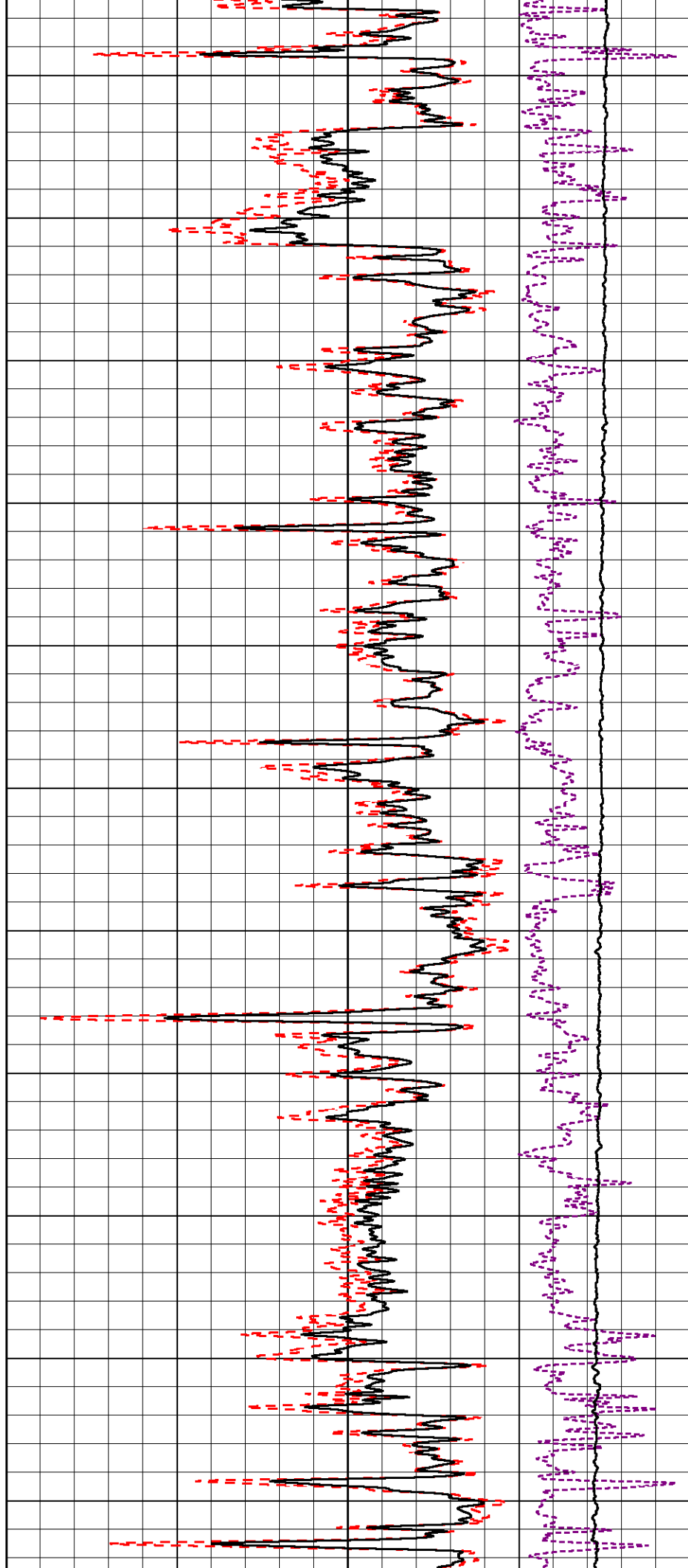
2900

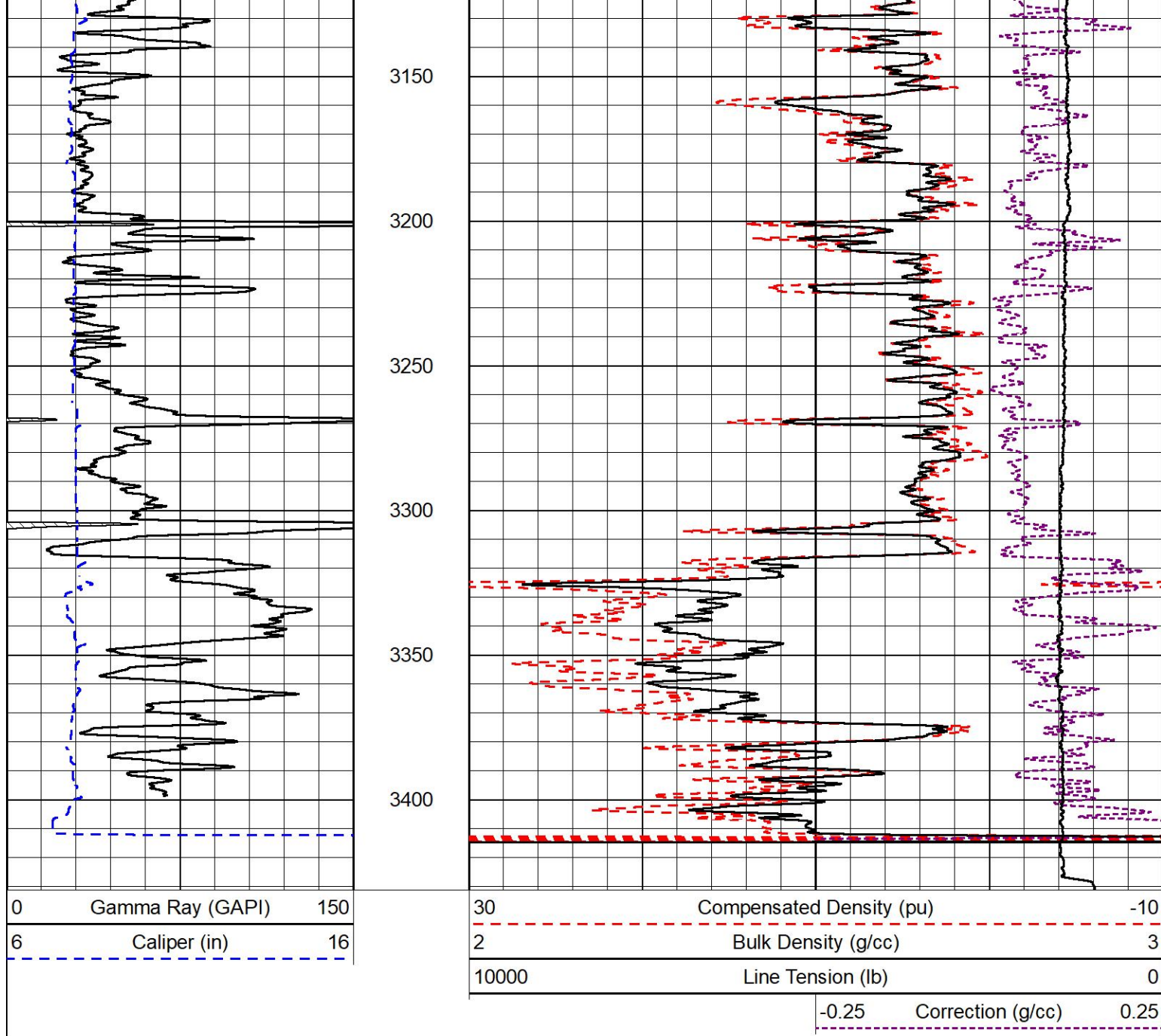
2950

3000

3050

3100



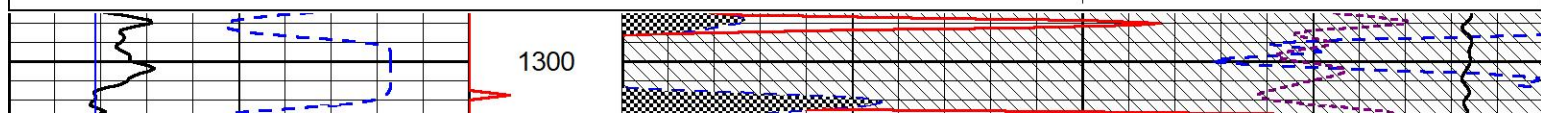
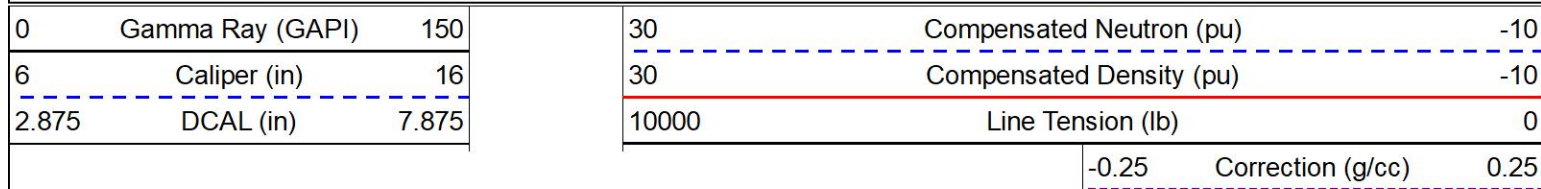


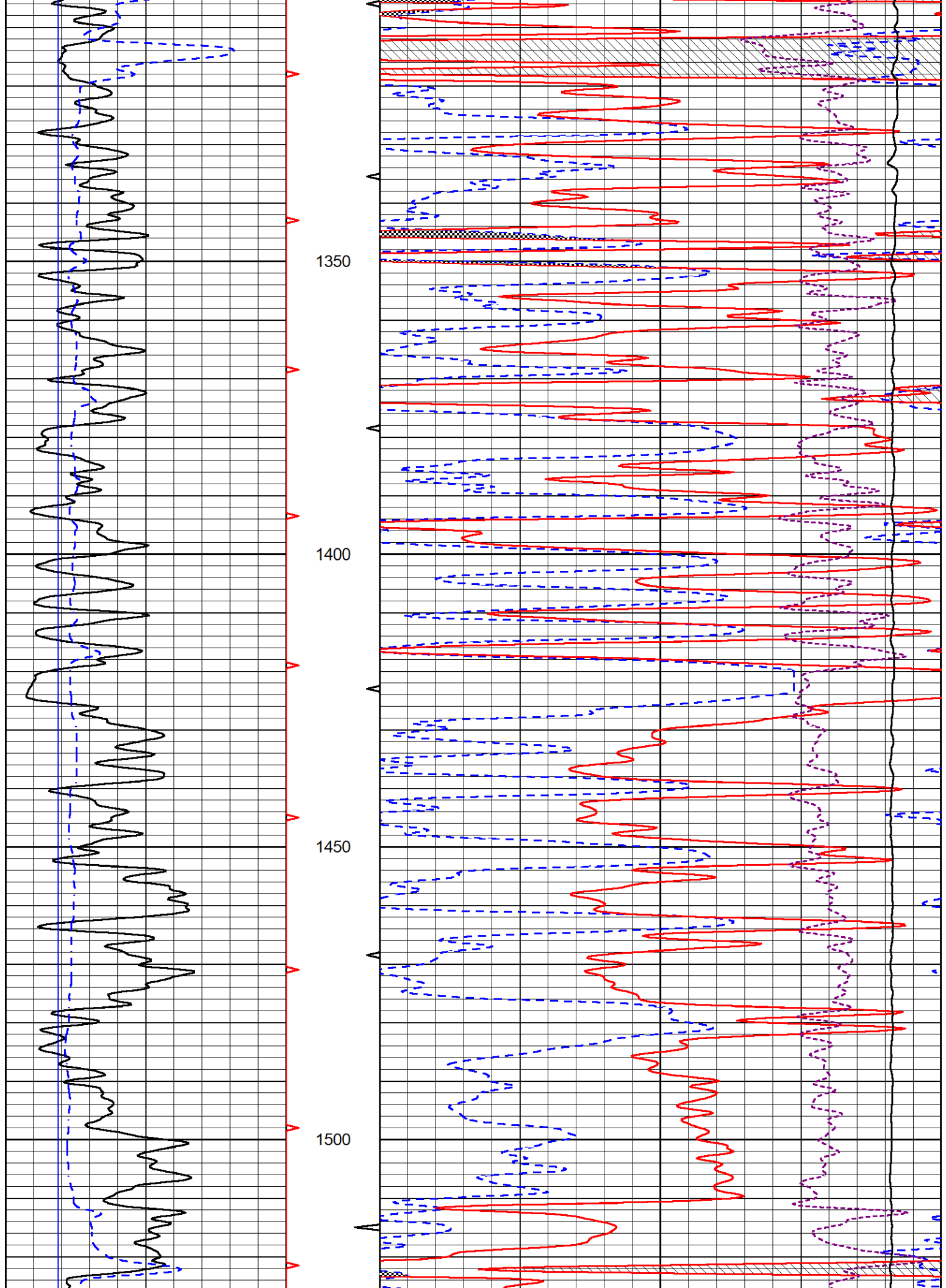
MIDWEST WIRELINE

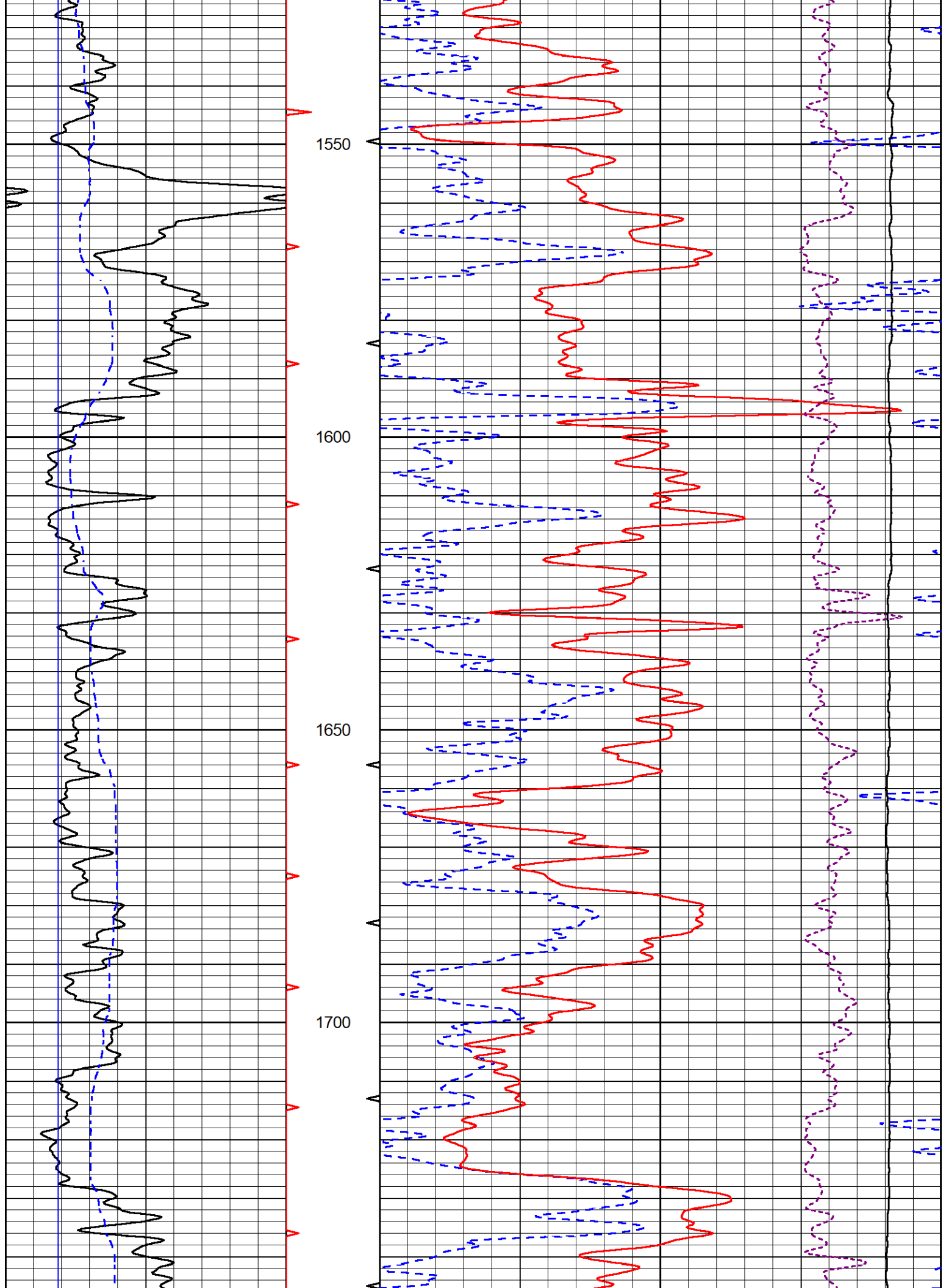
DETAIL SECTION

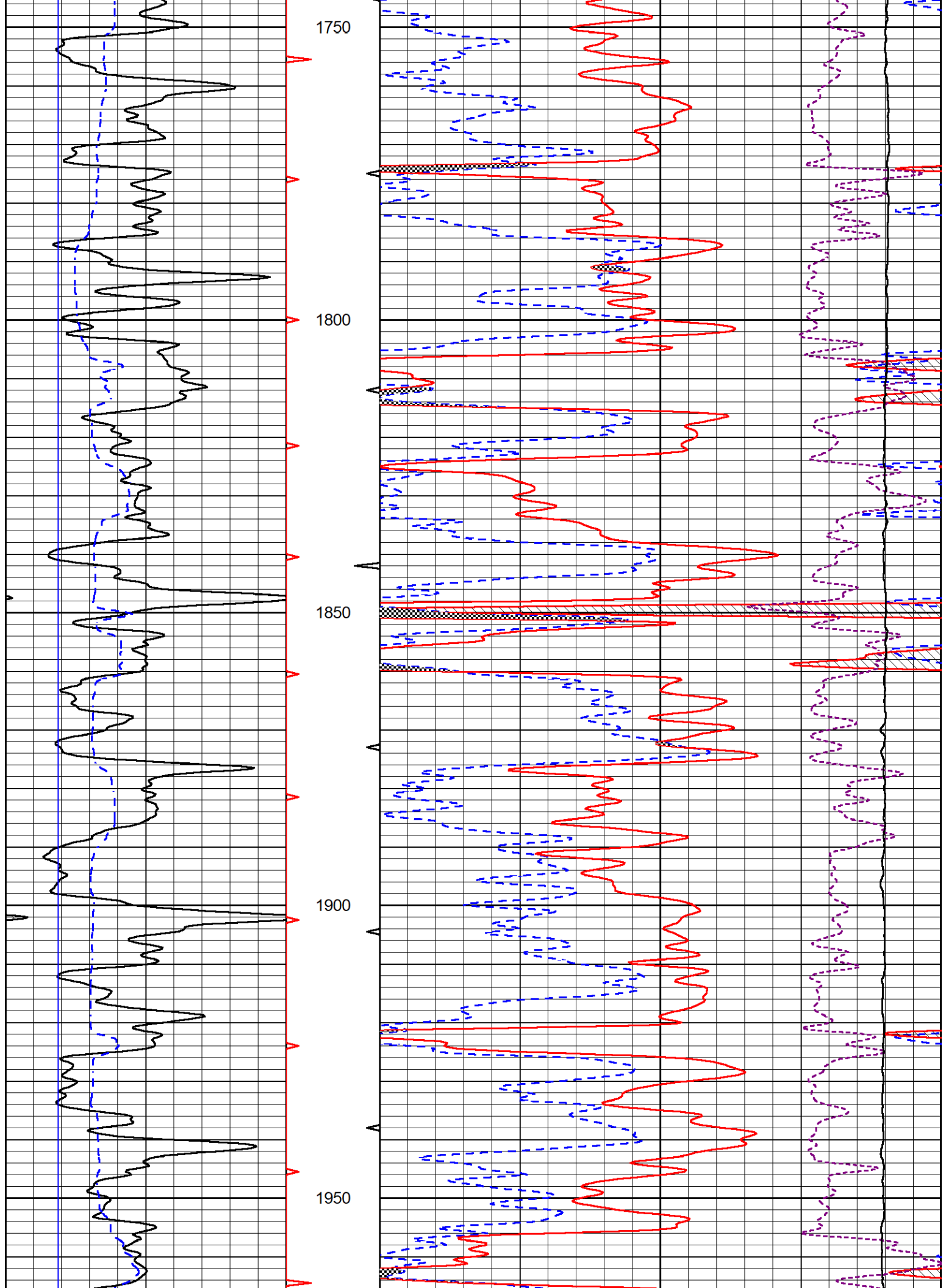
MAIN PASS

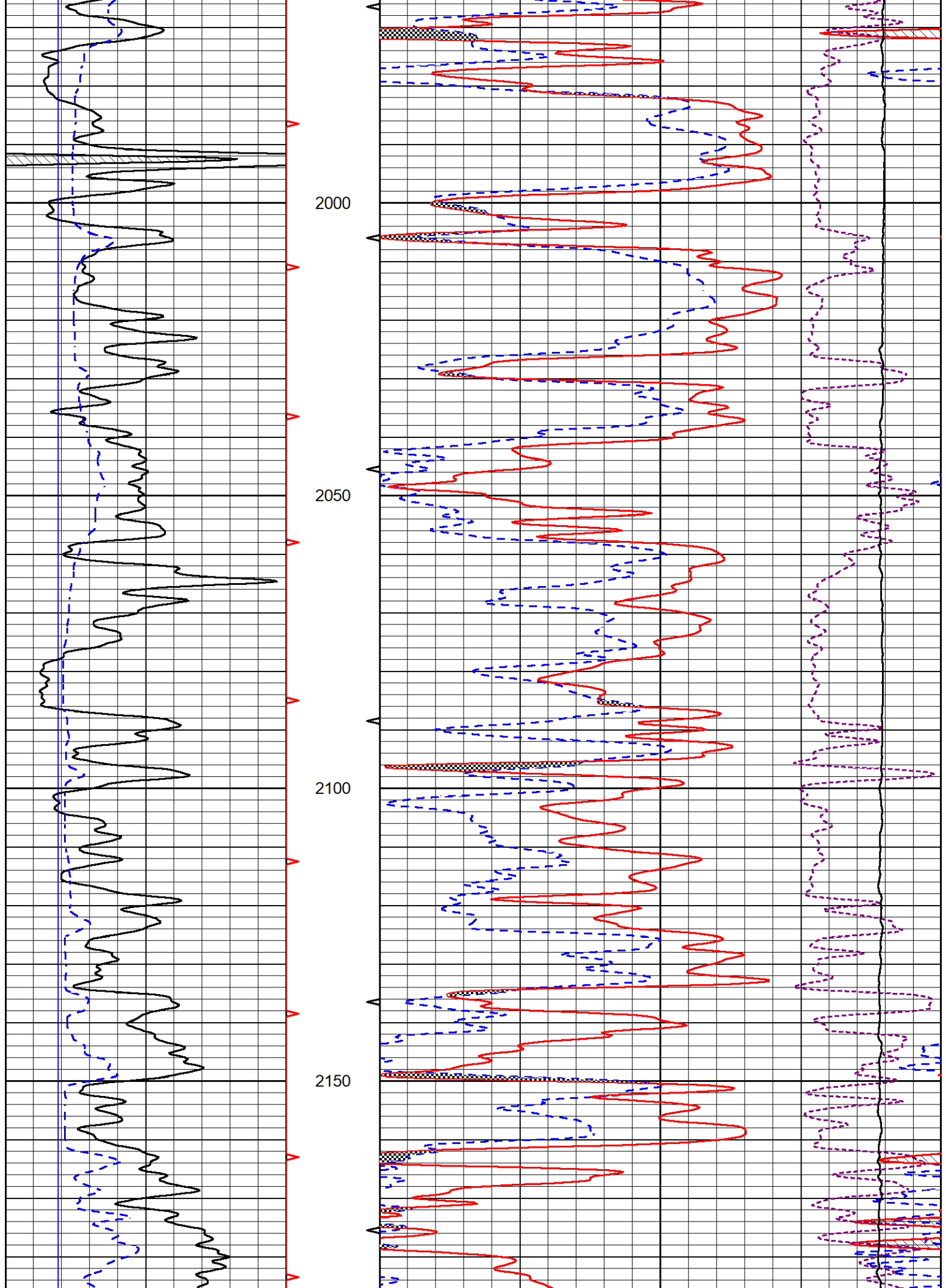
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 Presentation Format _CNDLS~1
 Dataset Creation Mon Mar 27 16:28:04 2023
 Charted by Depth in Feet scaled 1:240

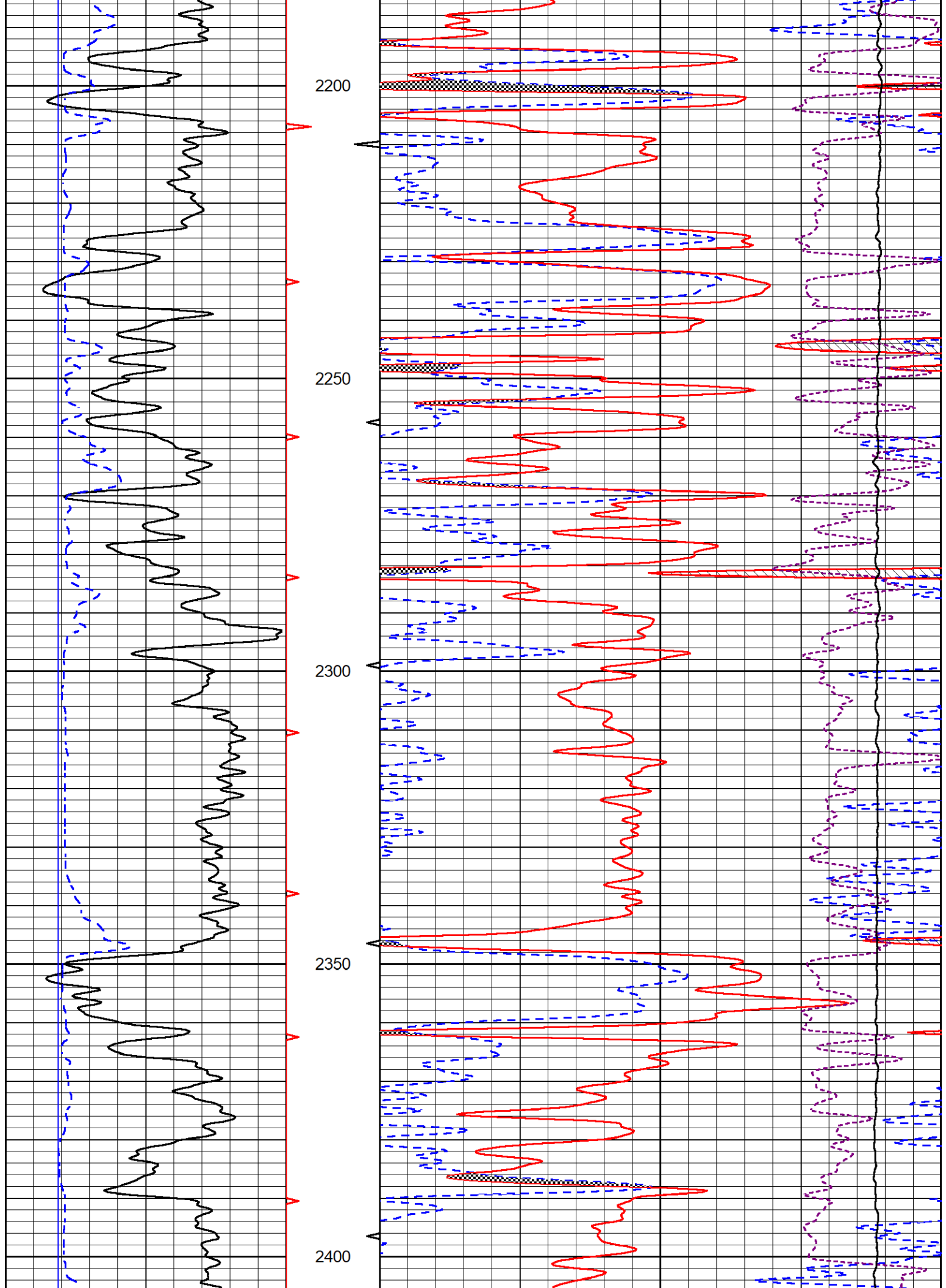


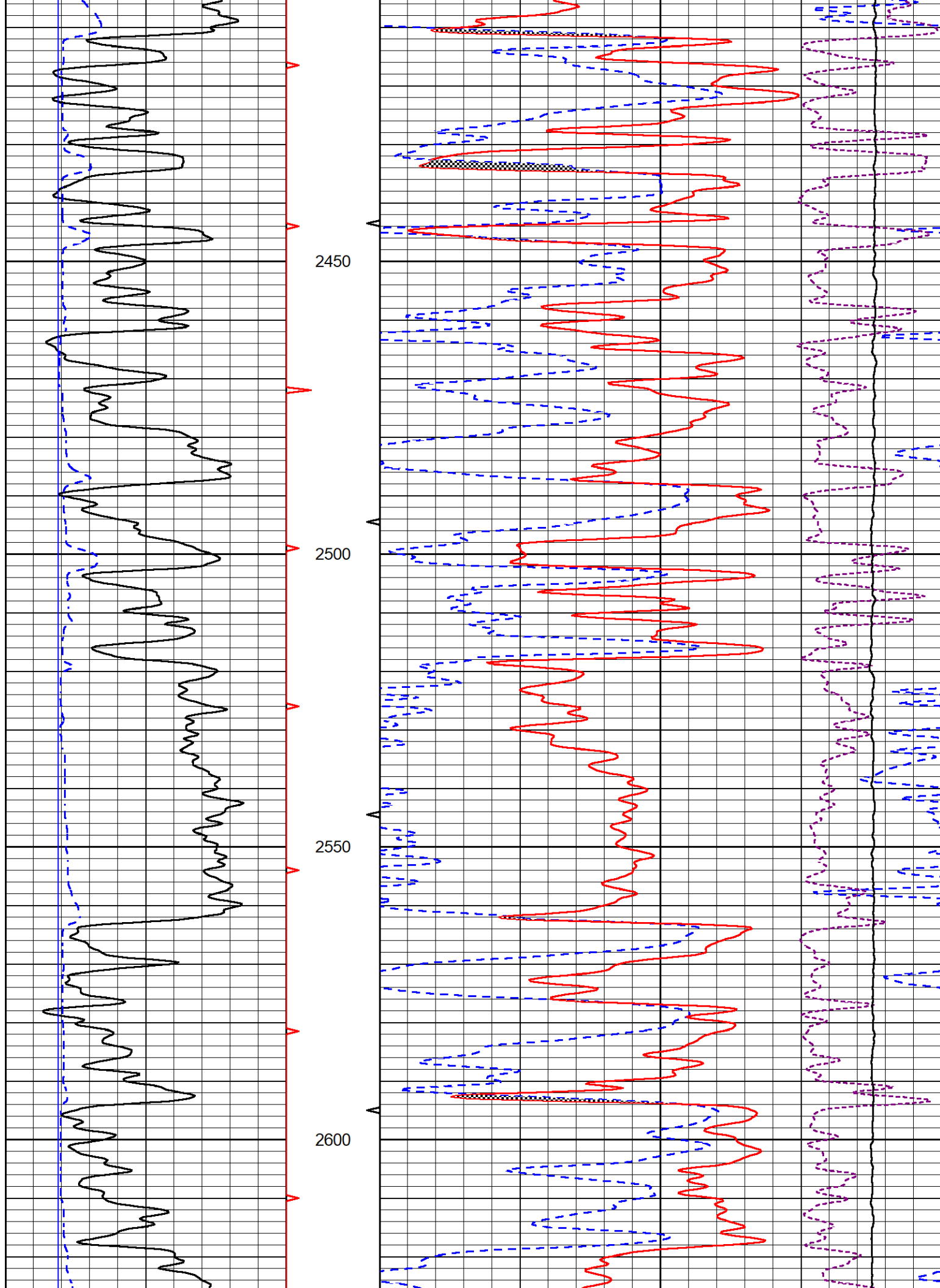


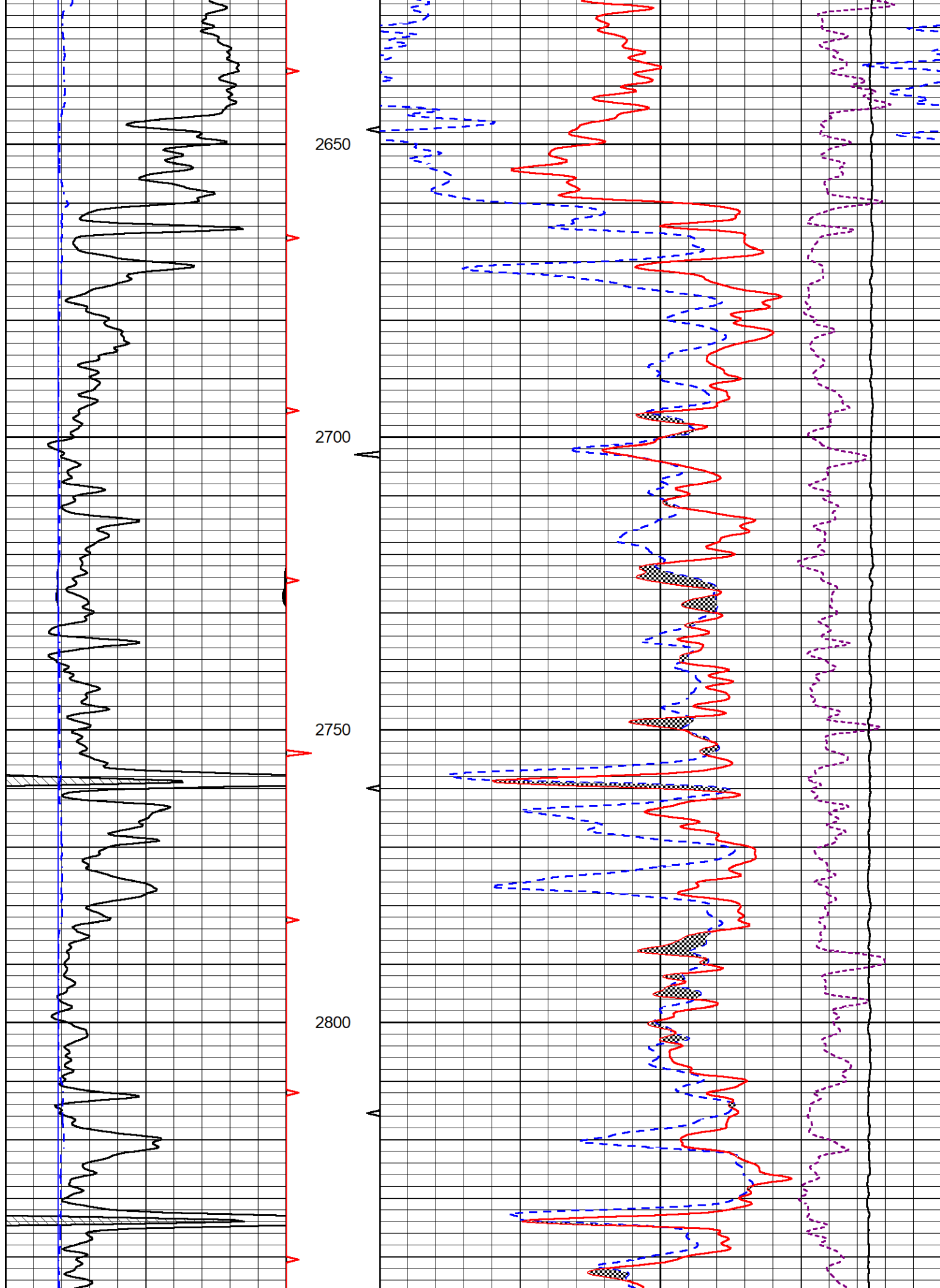


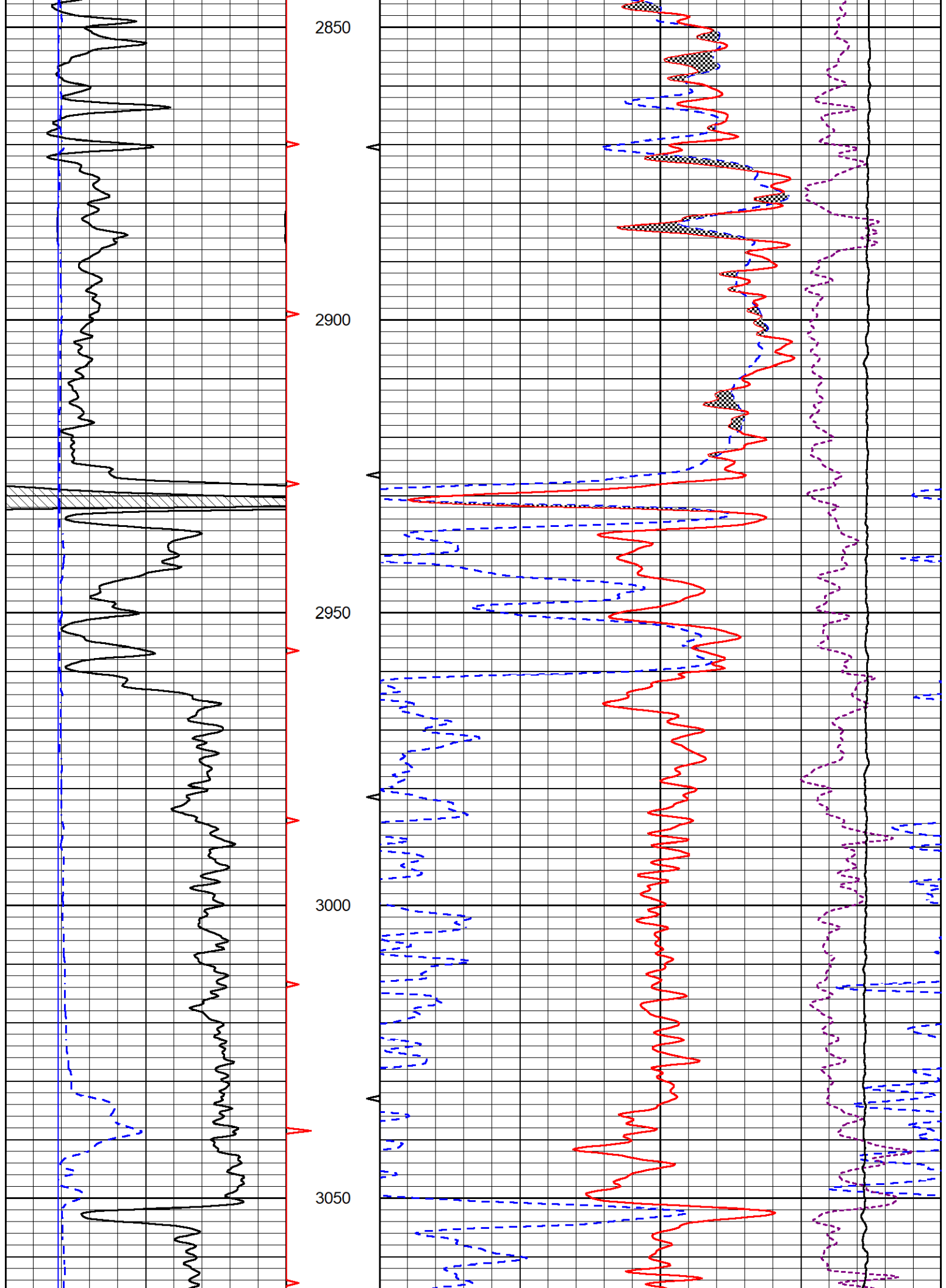


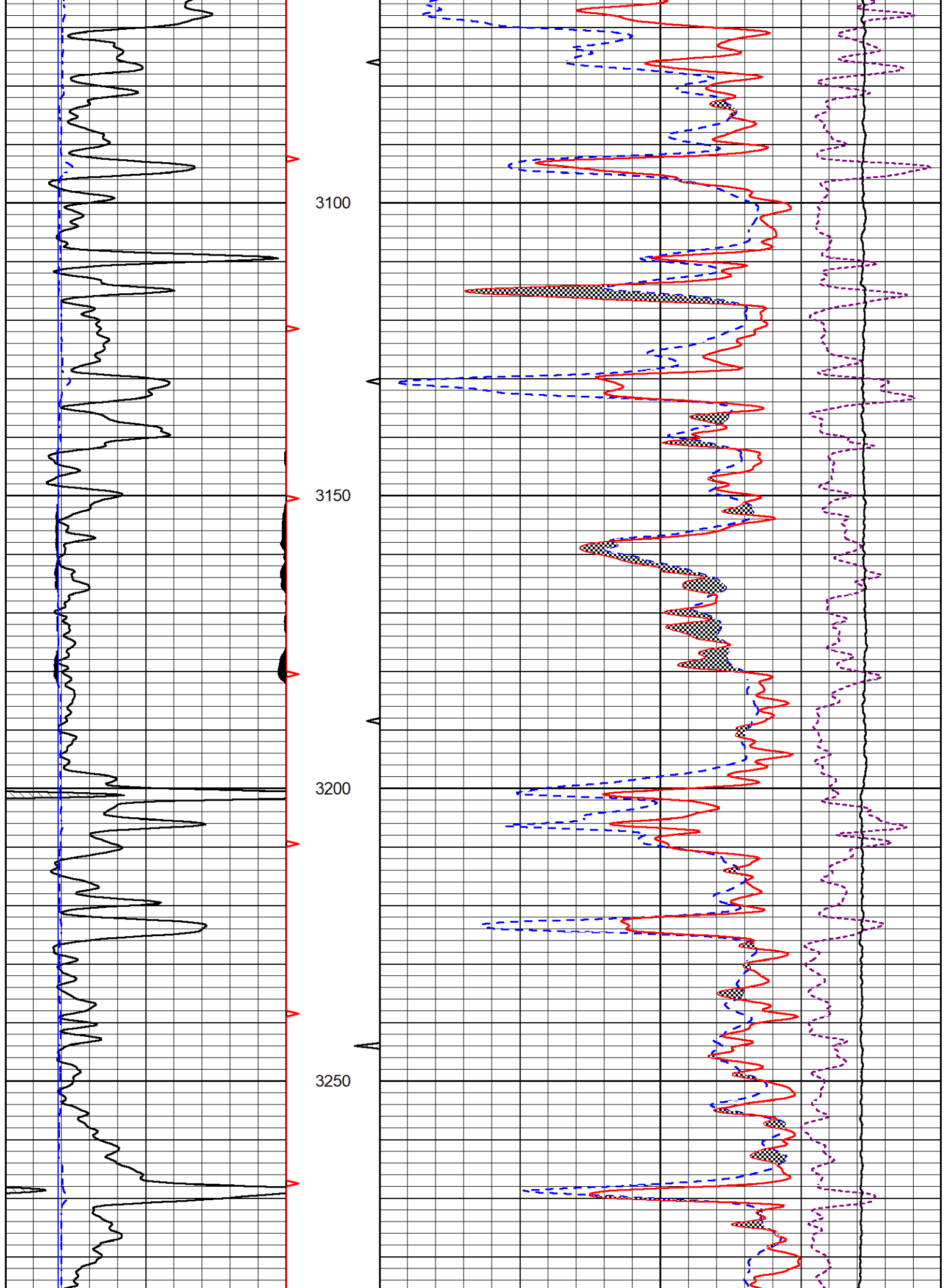


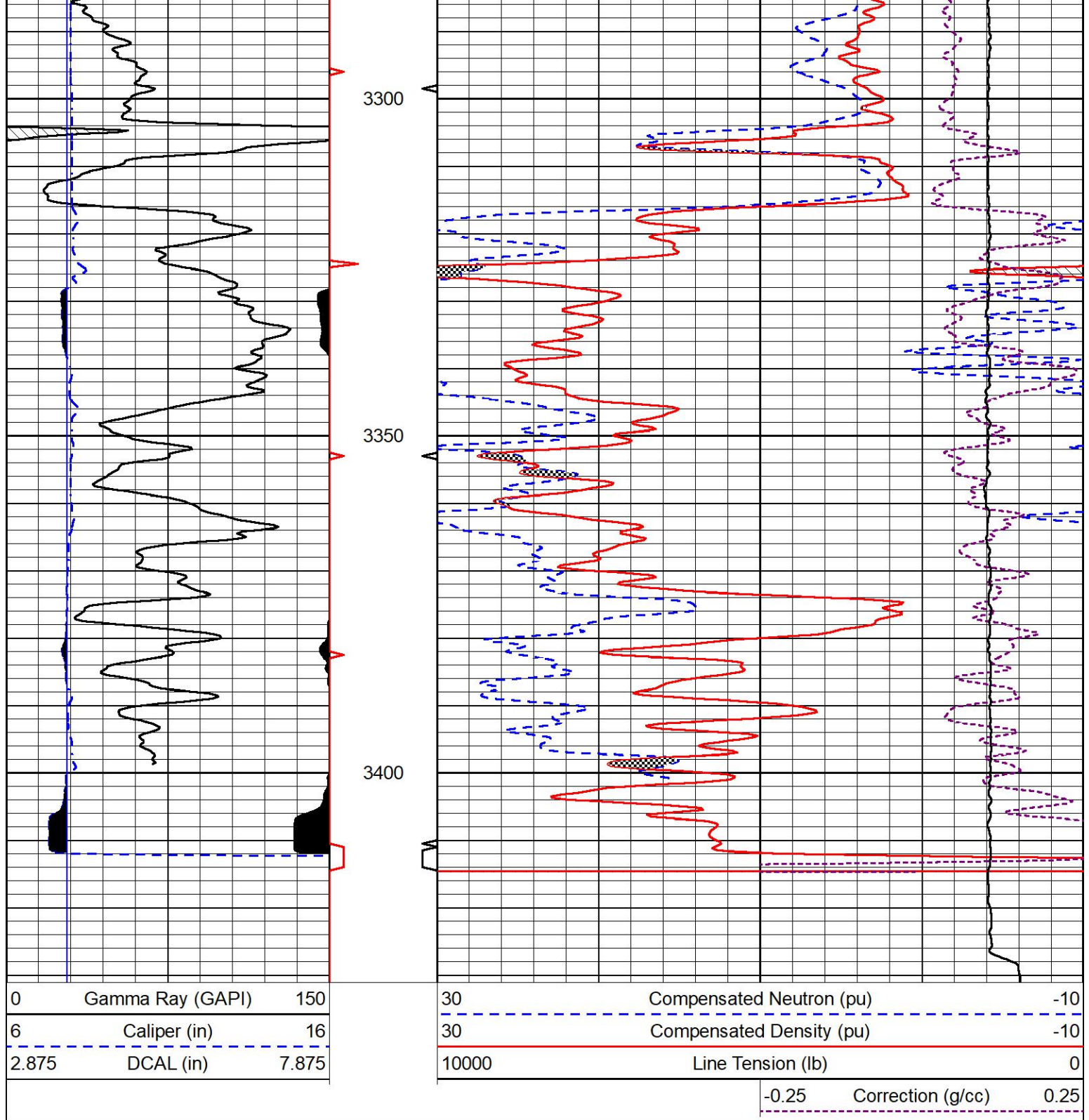












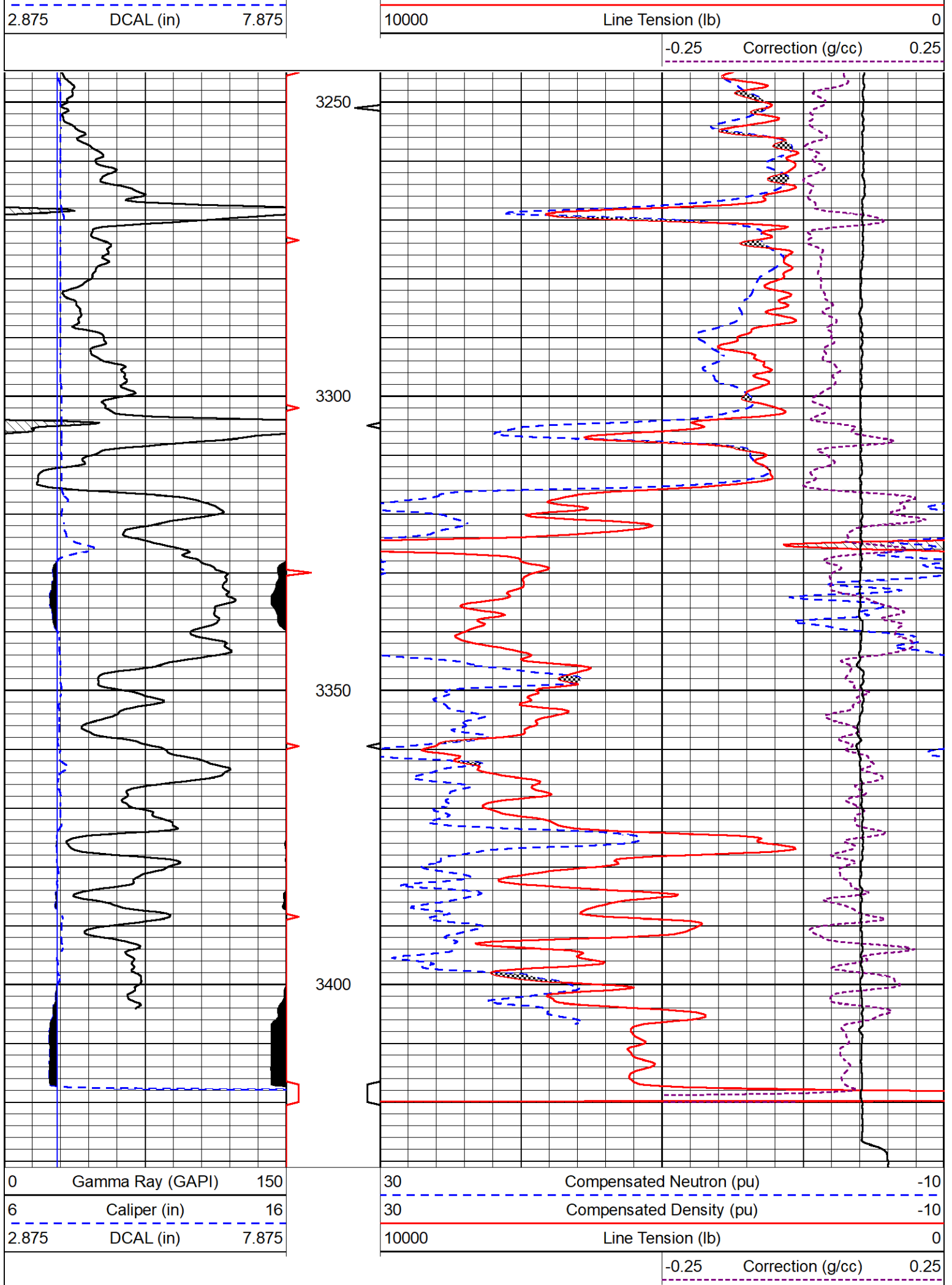
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File iuka-carmi_sessler #2.db
 Dataset Pathname Stack/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Mon Mar 27 16:08:08 2023
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10
6	Caliper (in)	16	30	Compensated Density (pu)	-10



Calibration Report							
Database File	iuka-carmi_sessler #2.db						
Dataset Pathname	Stack/pass3.1						
Dataset Creation	Mon Mar 27 16:28:04 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	0.450
Medium	192.026	839.715		0.000	255.800	mmho/m	-31.000
							-84.000
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 Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	105	
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



MIDWEST WIRELINE

Company	Iuka-Carmi Devenopment LLC
Well	Sessler #2
Field	Chase-Silica
County	Barton
State	Kansas