



DUAL COMP POROSITY LOG

MIDWEST WIRELINE

Company Satchell Creek Petroleum LLC		Company Satchell Creek Petroleum LLC					
Well Liggett A-1		Well Liggett A-1					
Field		Field					
County Butler		County Butler					
State Kansas		State Kansas					
Location: API #: 15-015-24174-00-00		Other Services					
SEC 34 TWP 25S RGE 7E		DIL MEL/BHCS					
Permanent Datum	Ground Level	Elevation	1485				
Log Measured From	Kelly Bushing	K.B.	1497				
Drilling Measured From	Kelly Bushing	D.F.					
		G.L.	1485				
Date	11/13/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	3260						
Depth Logger	3261						
Bottom Logged Interval	3232						
Top Logged Interval	250						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	4000						
Density	9.6						
Level	Full						
Max. Rec. Temp. F	109						
Operating Rig Time	4 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	T. Martin						
Witnessed By	Carl Jordan						
Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	264	8.625	23	00	264
Two	7.875	264	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.

Rosalia, KS, 2 W to Satchell Creek Rd,
1 N, 1/4 E, 2/3 N, E into

Log Measured From: Kelly Bushing12 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: Carl Jordan
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\satchell creek_liggett a-1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	109	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	-140	40	Off	3261

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



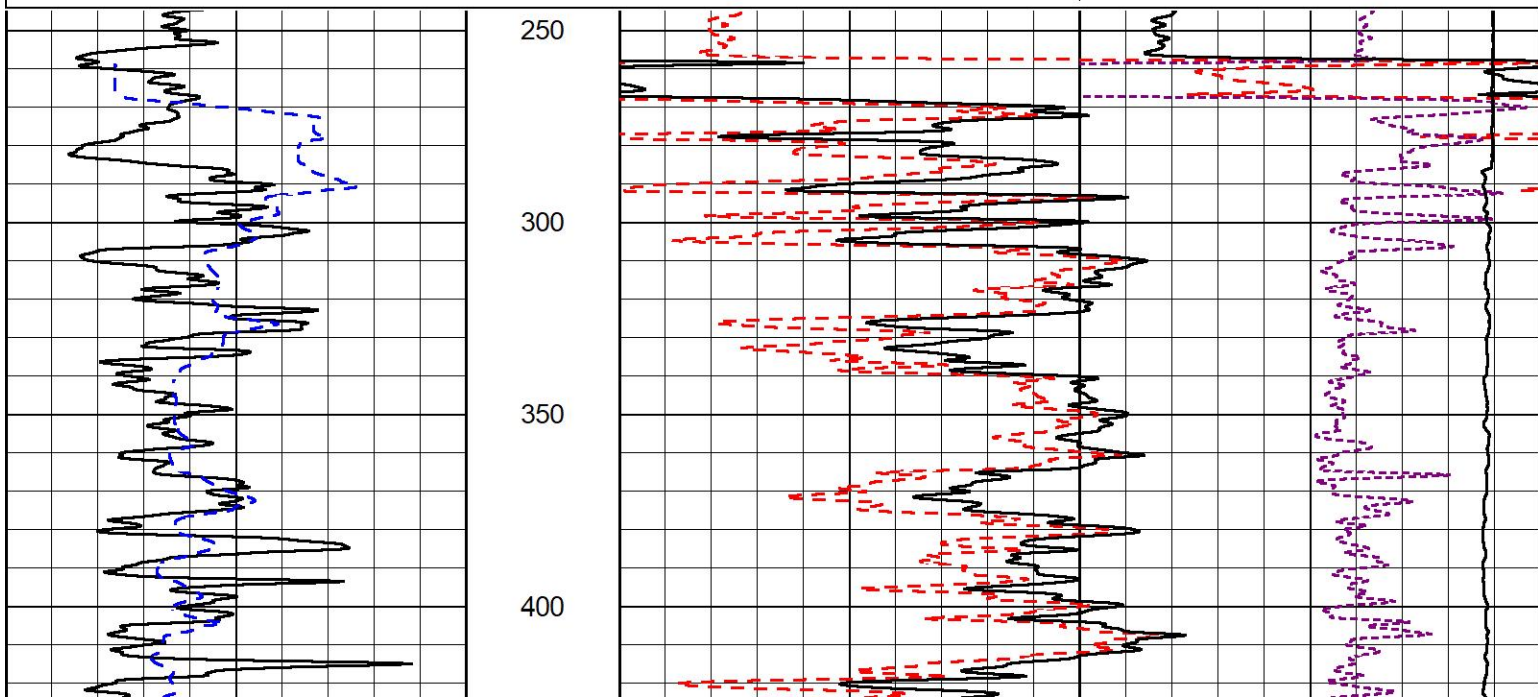
2" SCALE BULK DENSITY

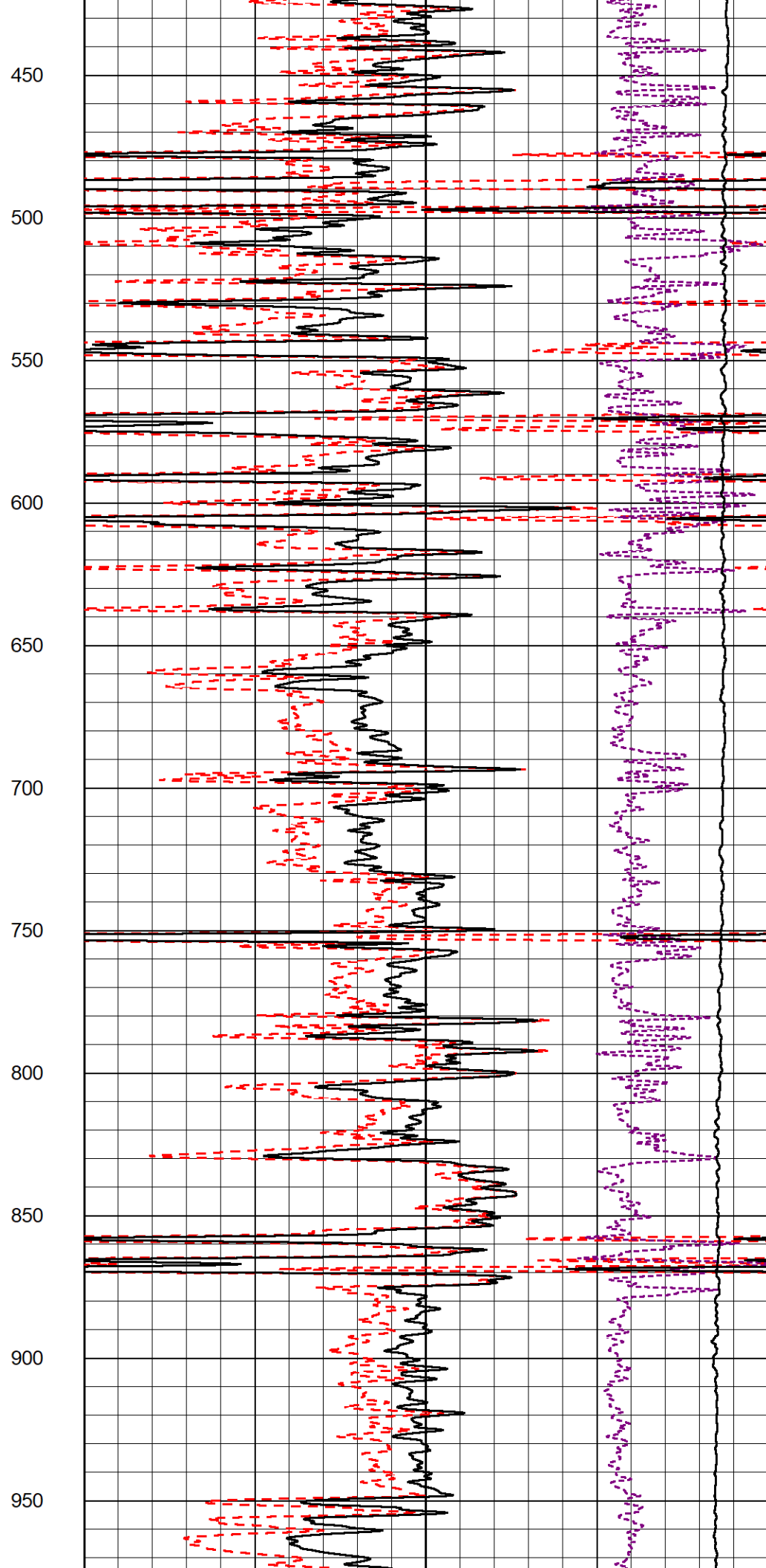
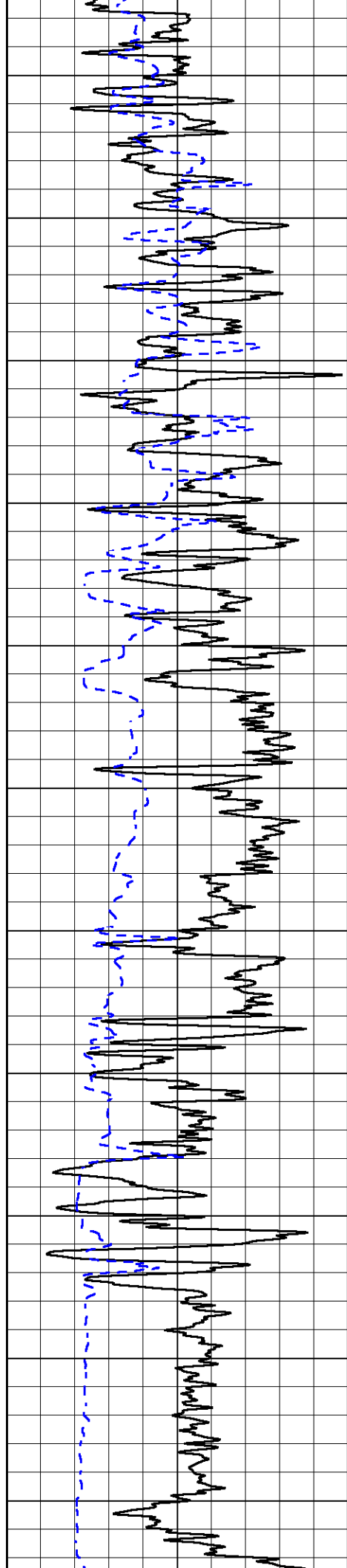
MAIN PASS

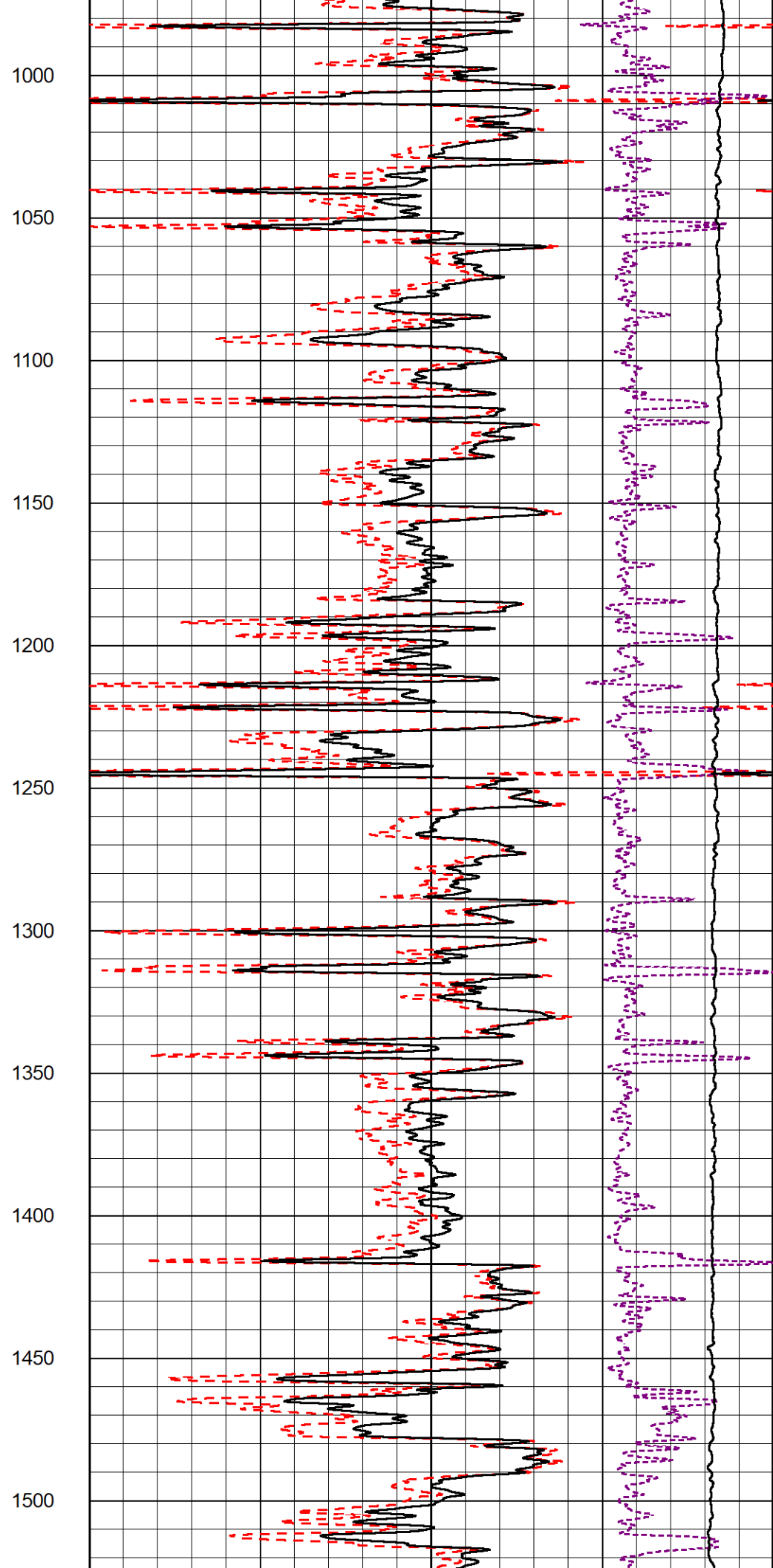
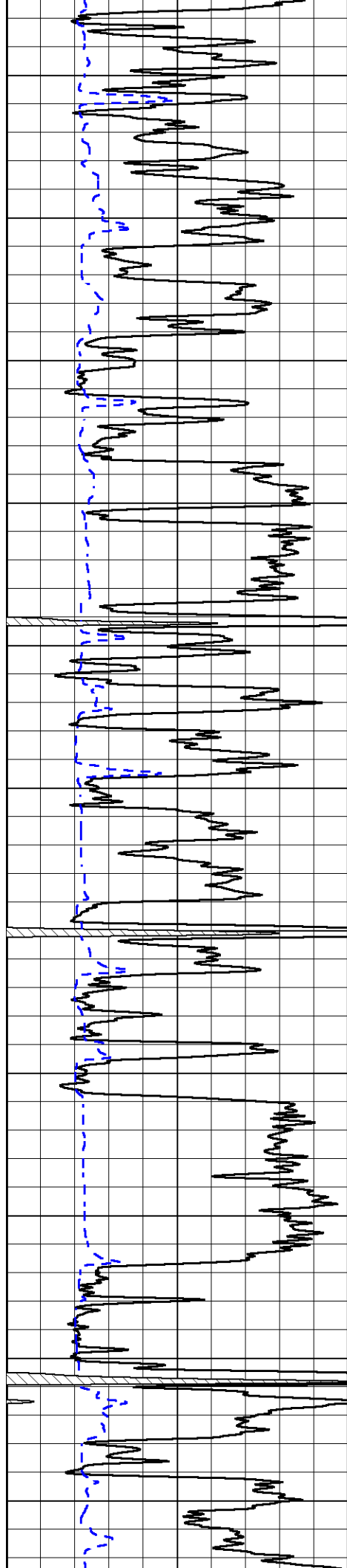
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Dataset Creation Sun Nov 13 19:15:23 2022
Charted by Depth in Feet scaled 1:600

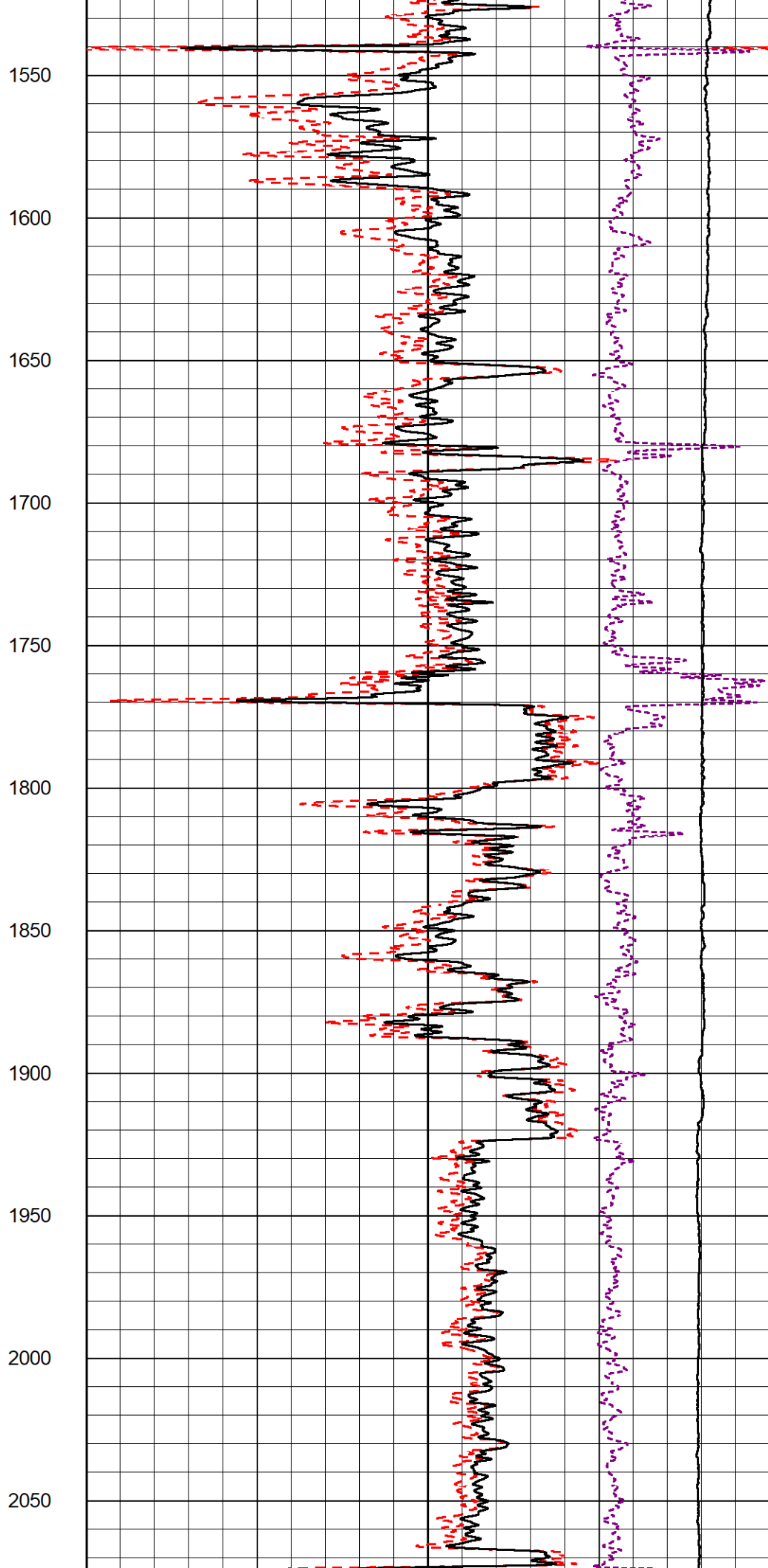
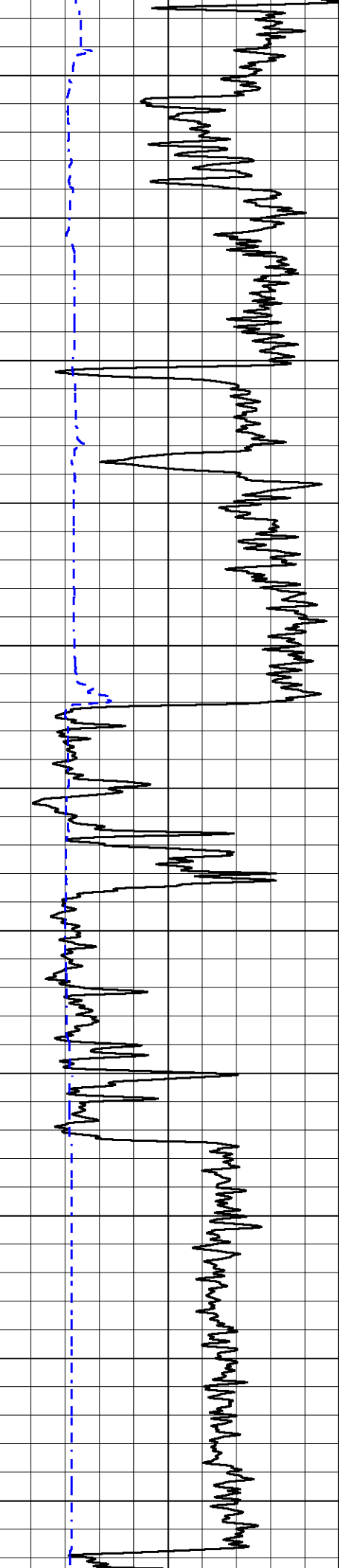
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

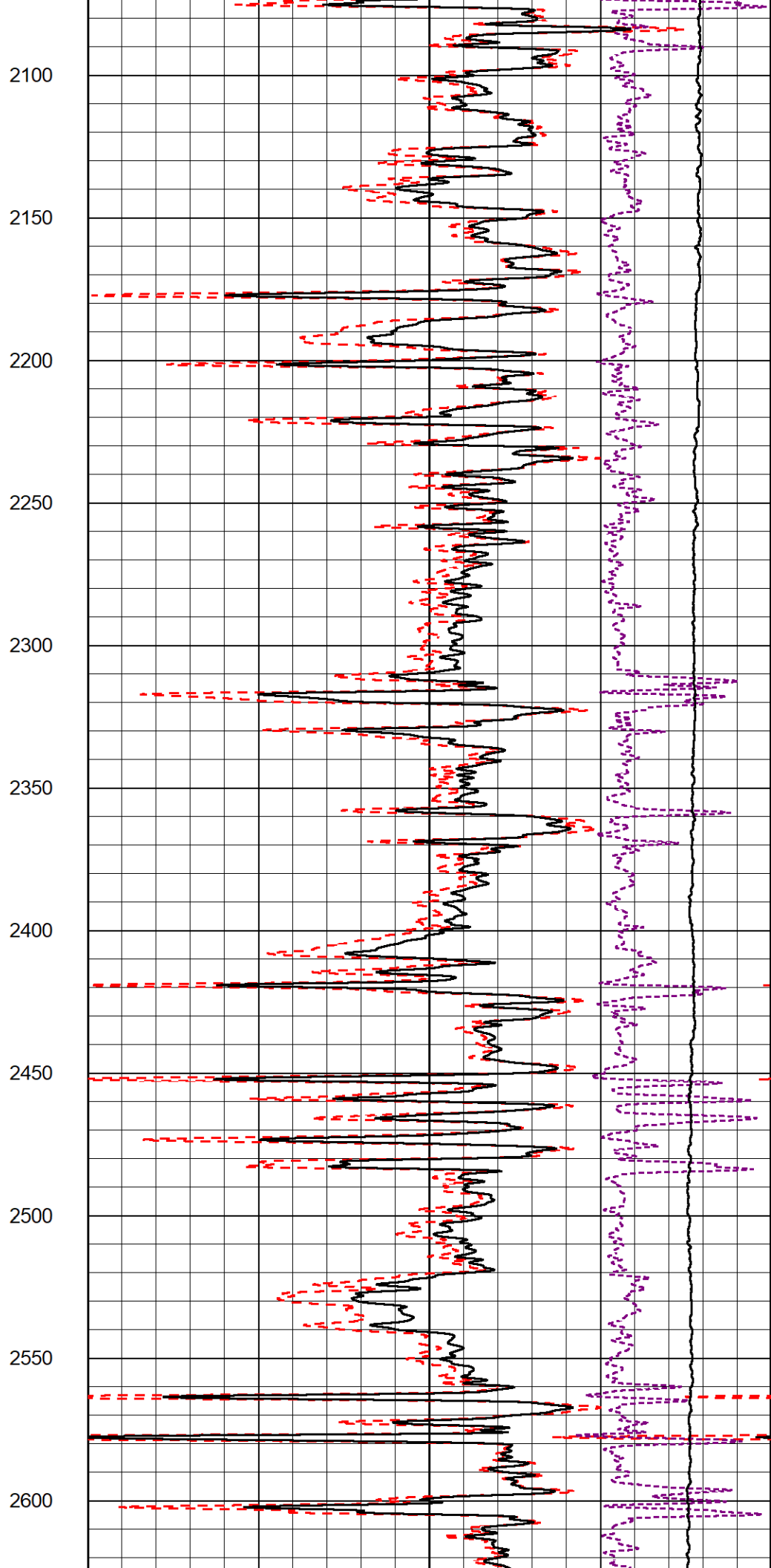
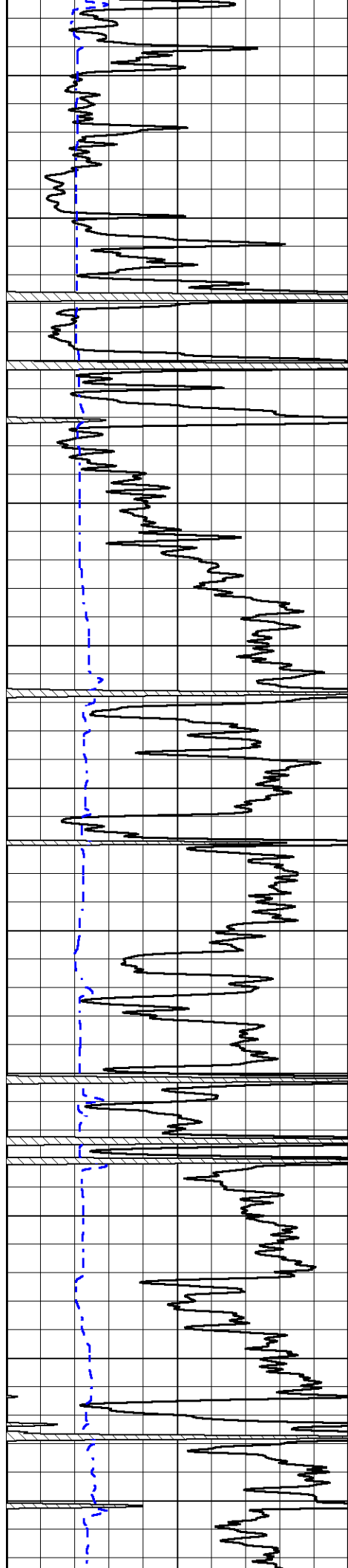
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

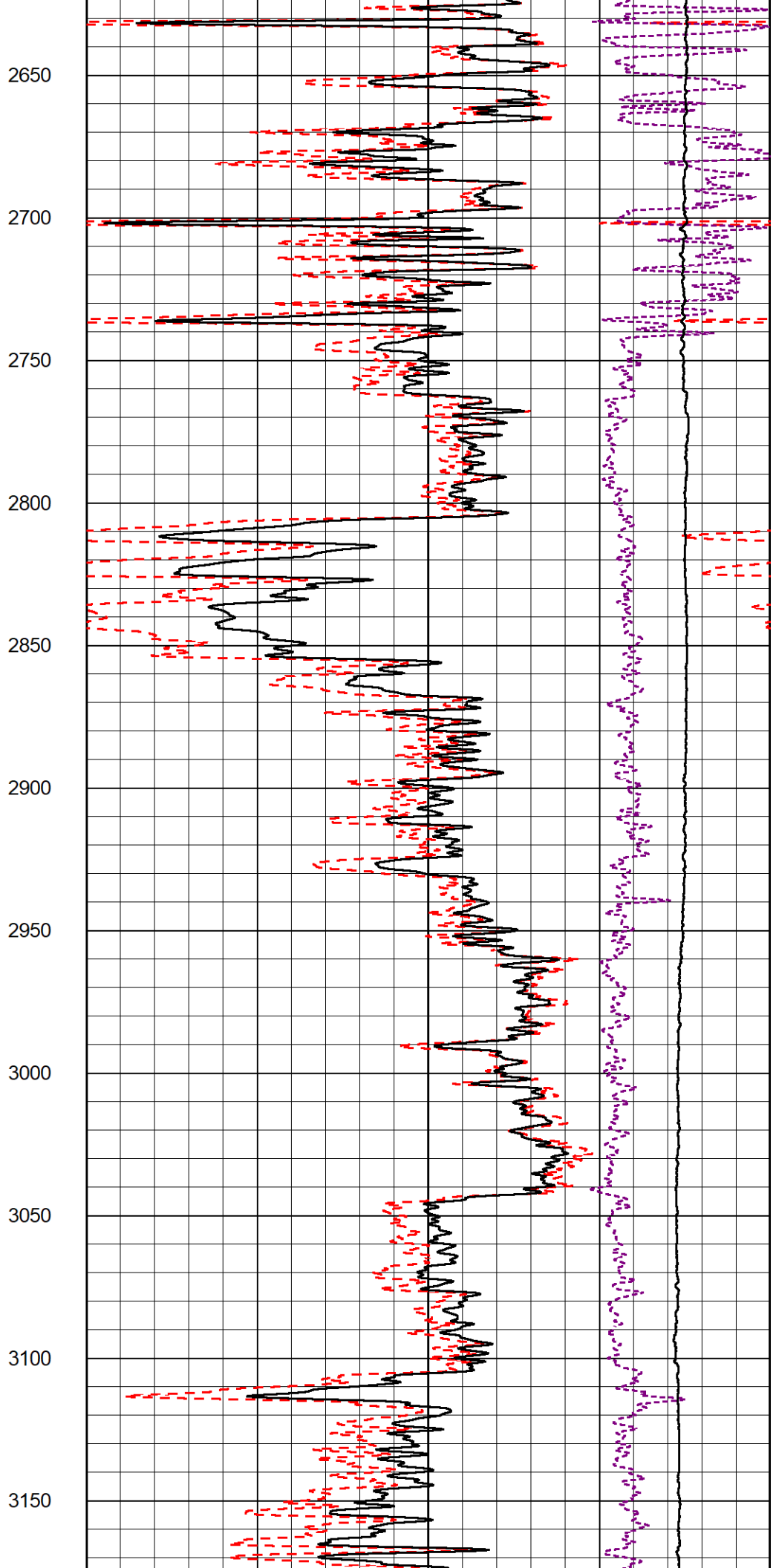
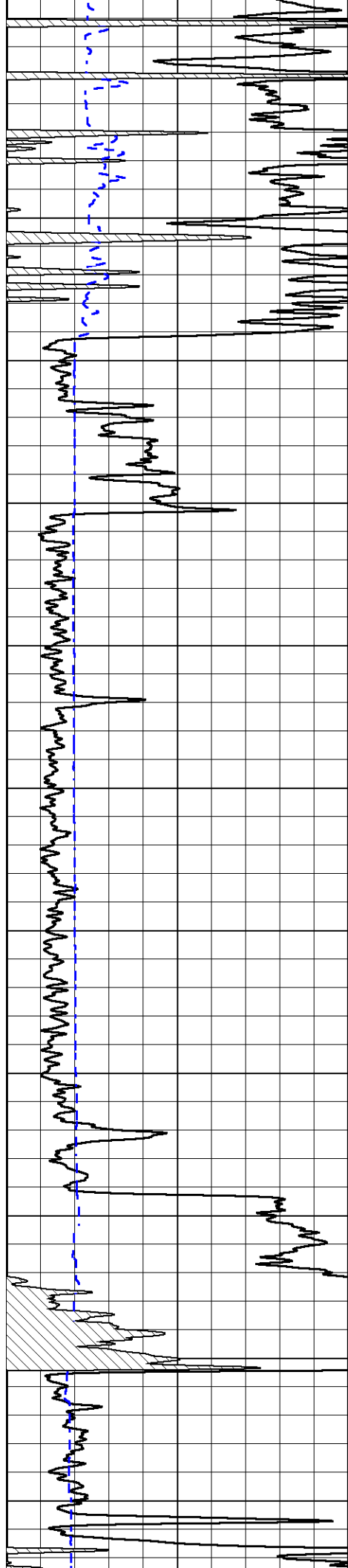


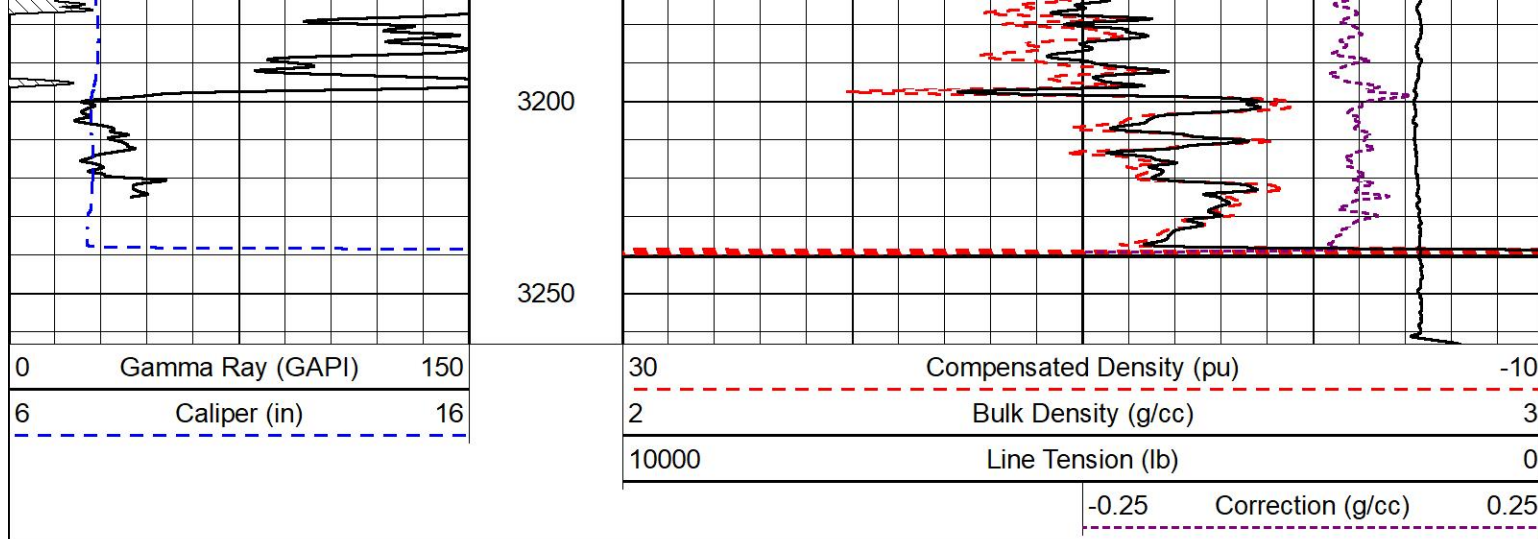










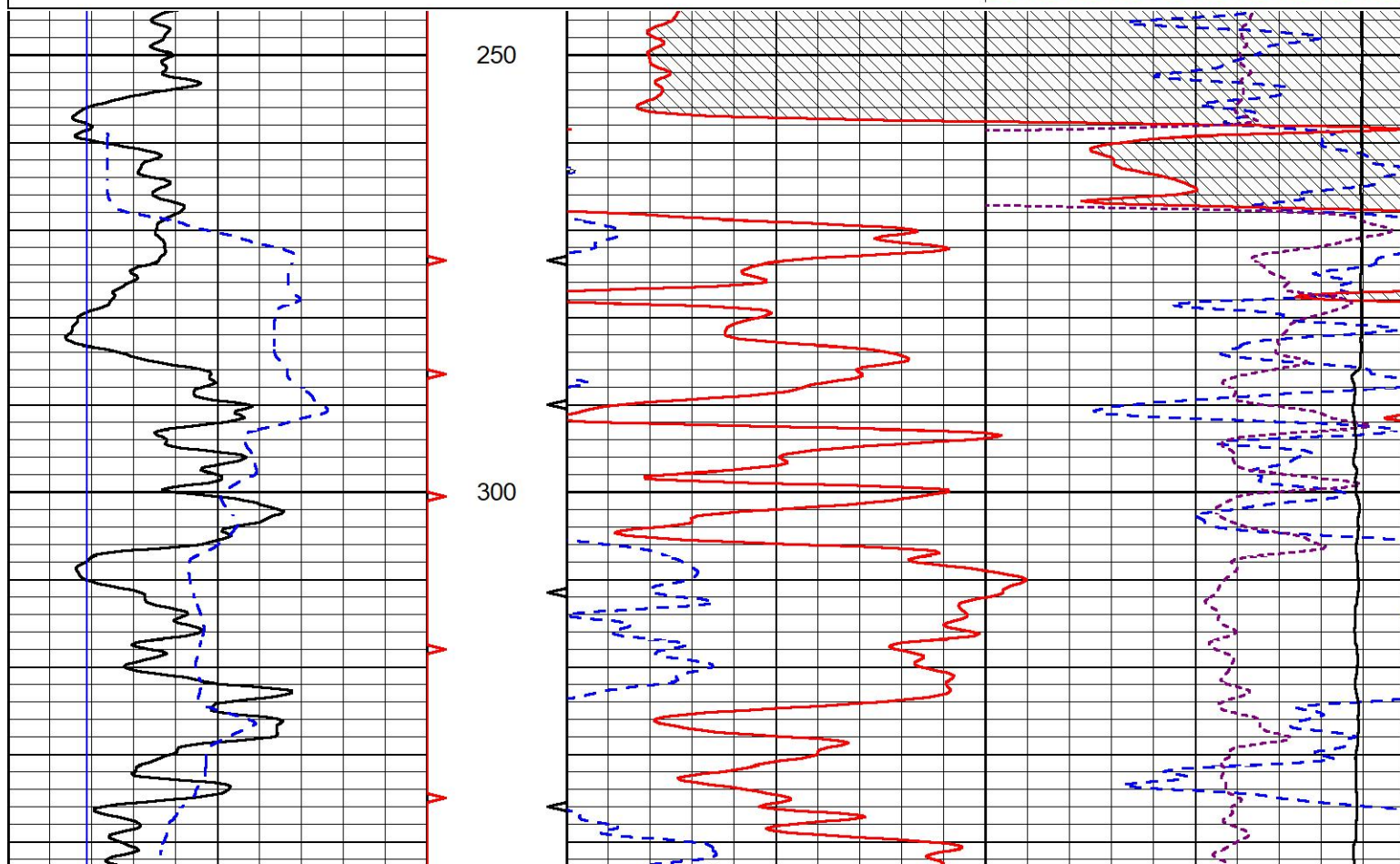
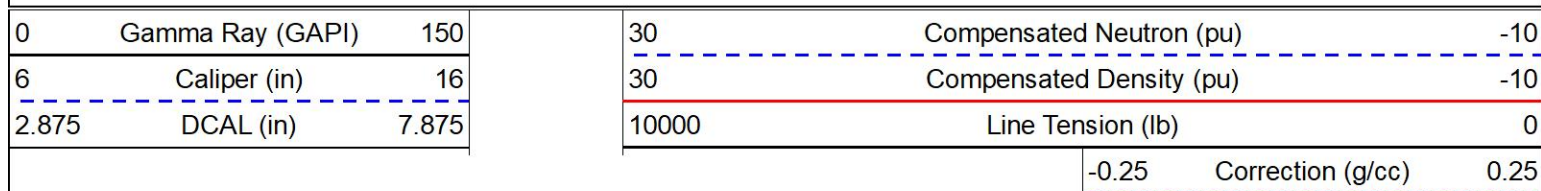


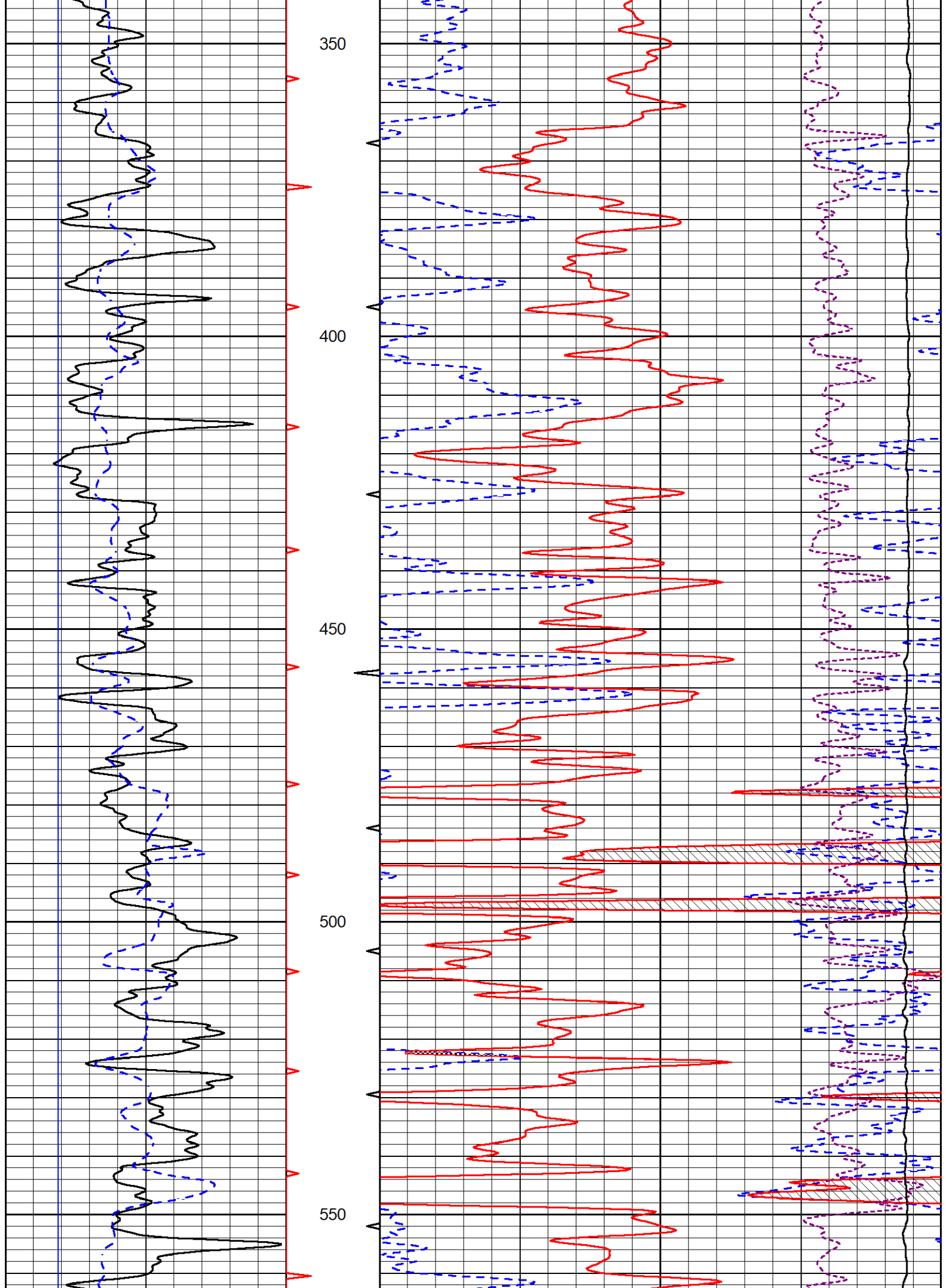
MIDWEST WIRELINE

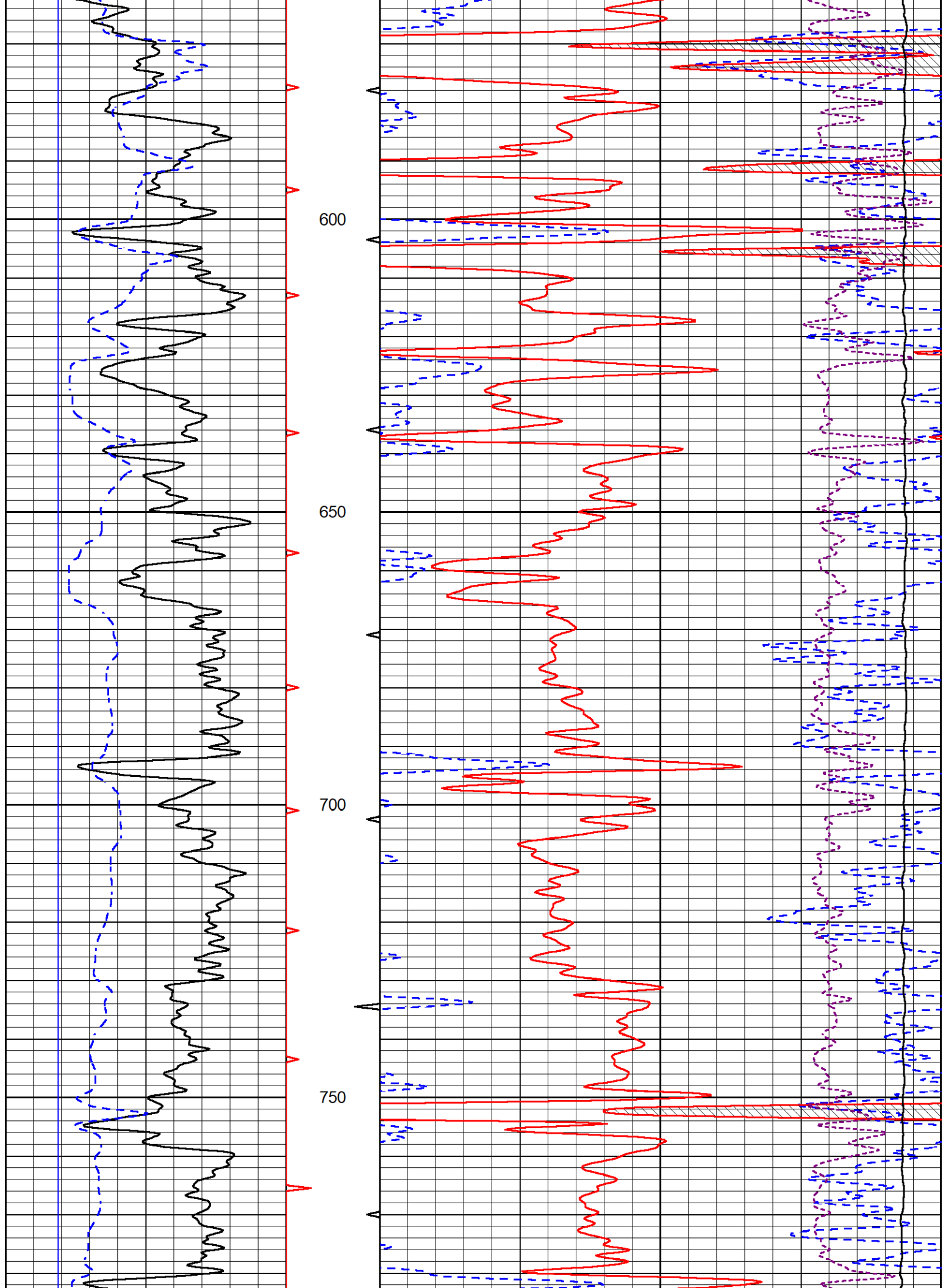
DETAIL SECTION

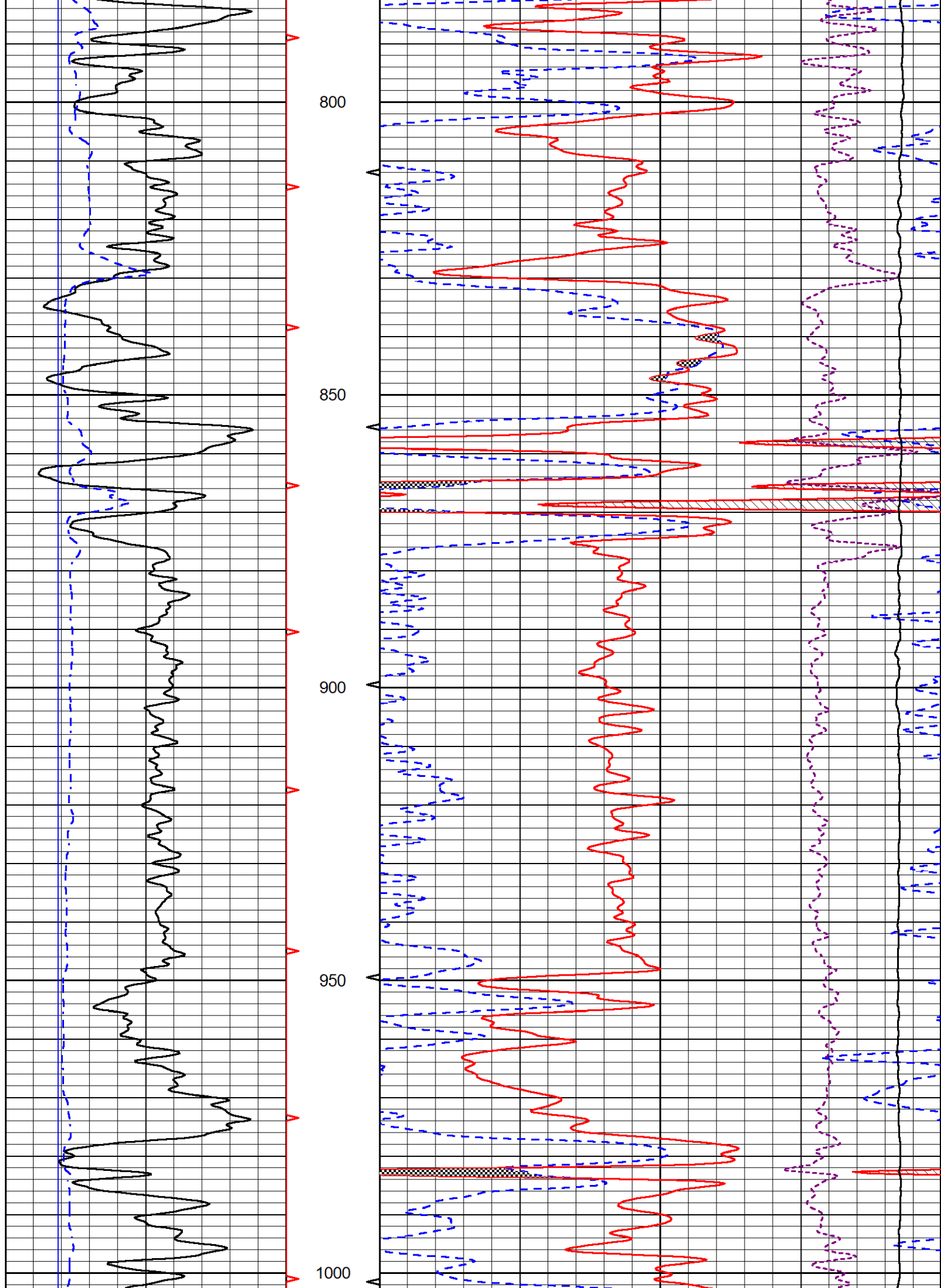
MAIN PASS

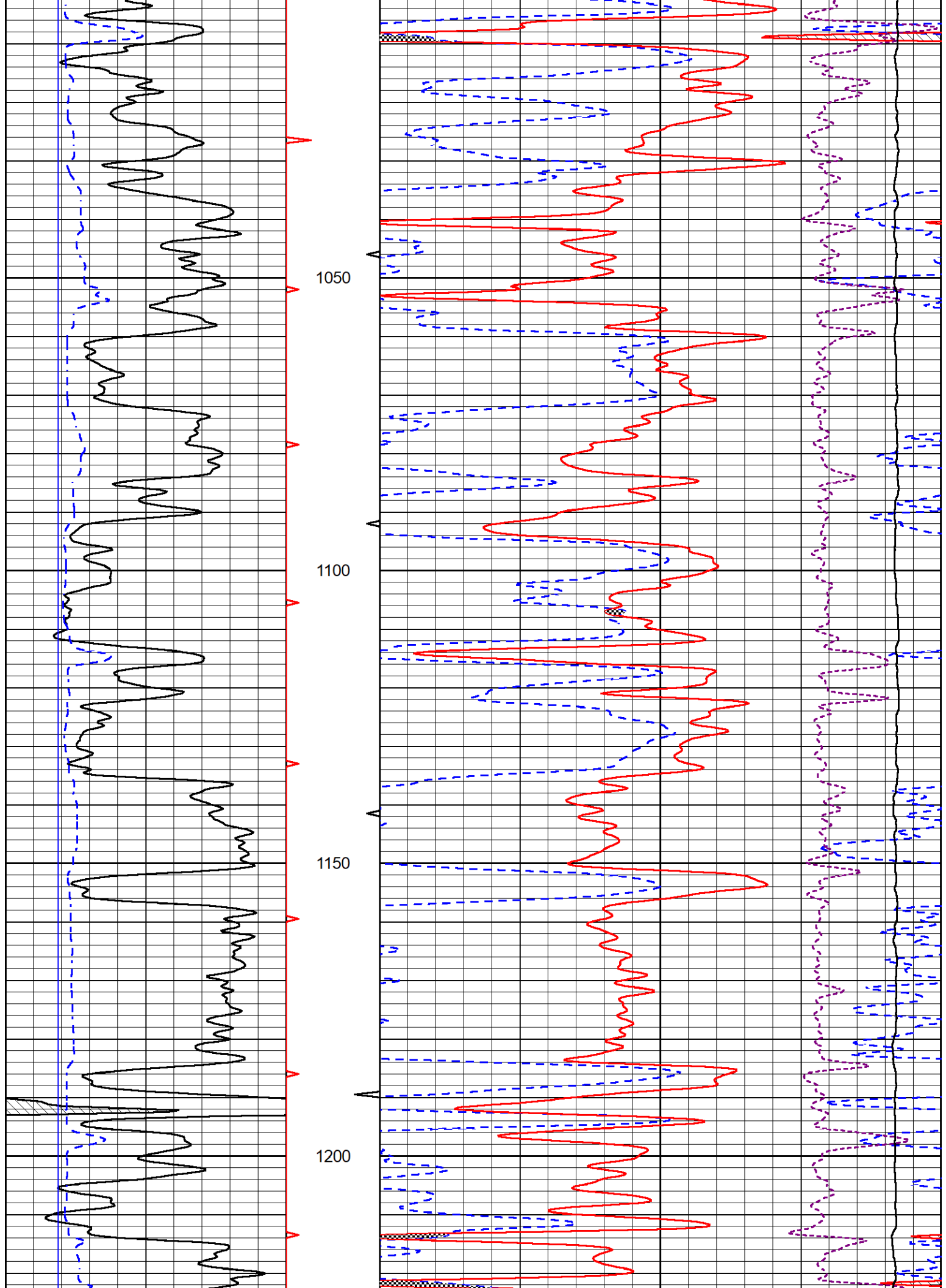
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 Dataset Creation Sun Nov 13 19:15:45 2022
 Charted by Depth in Feet scaled 1:240

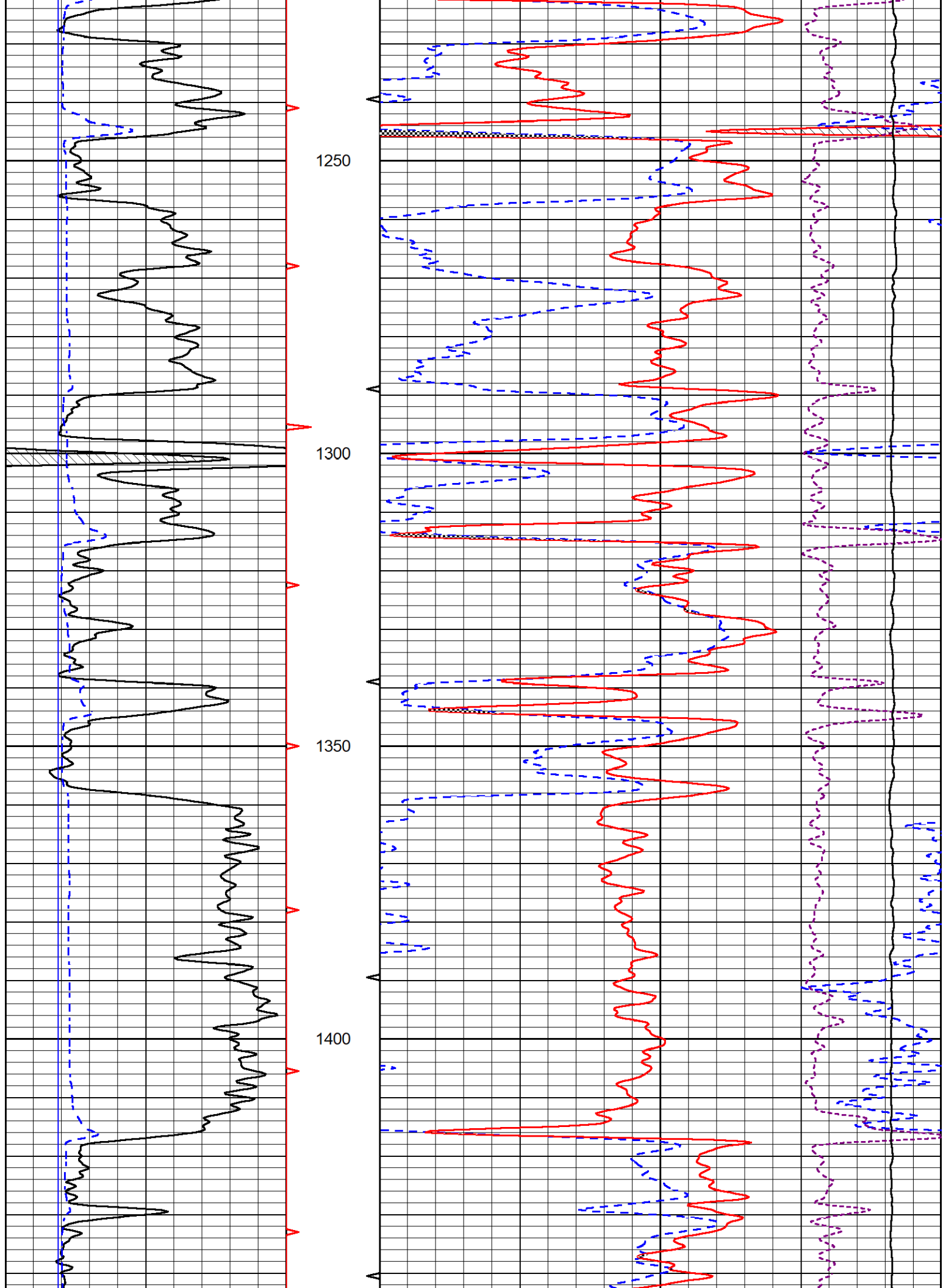


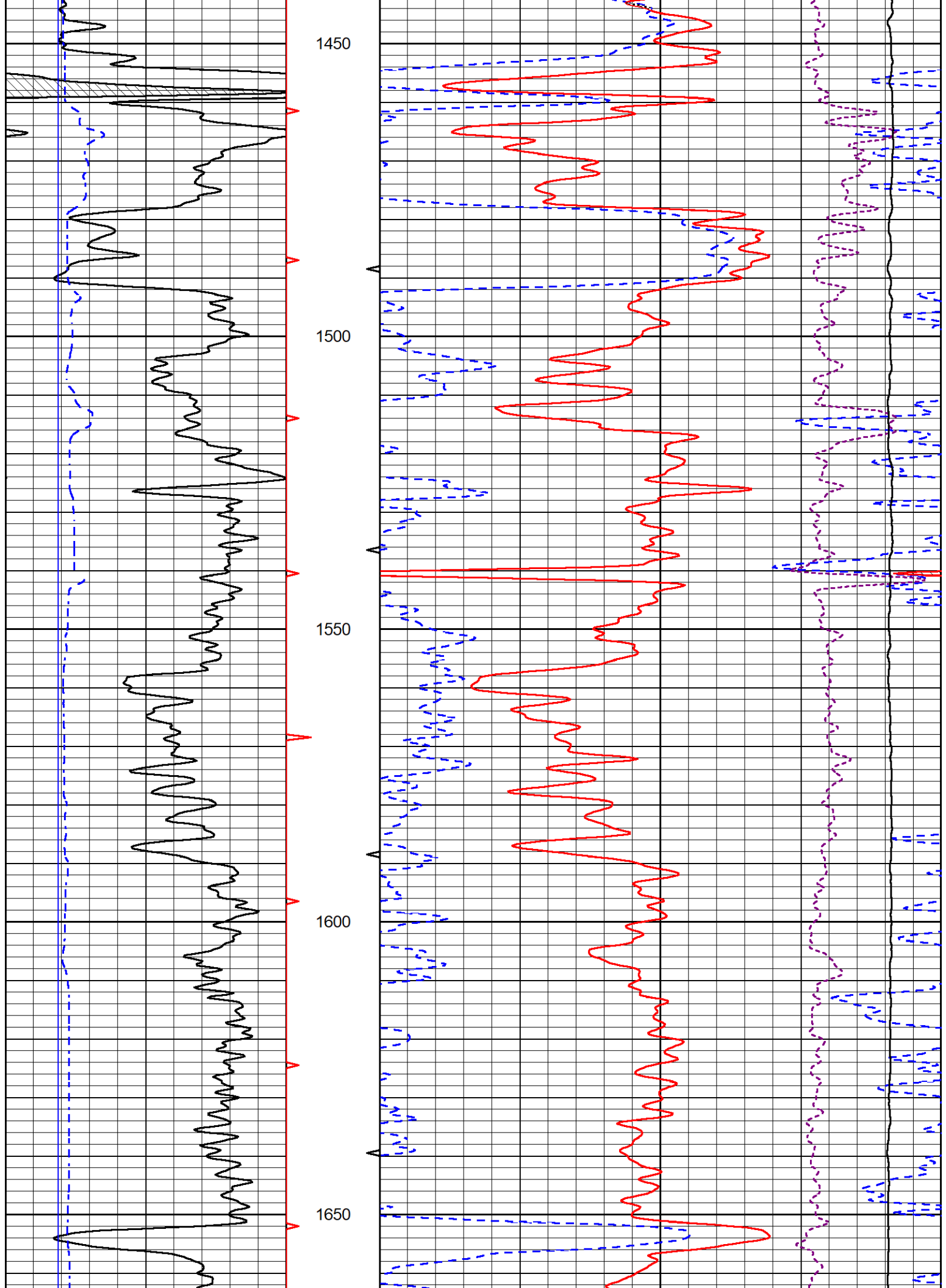


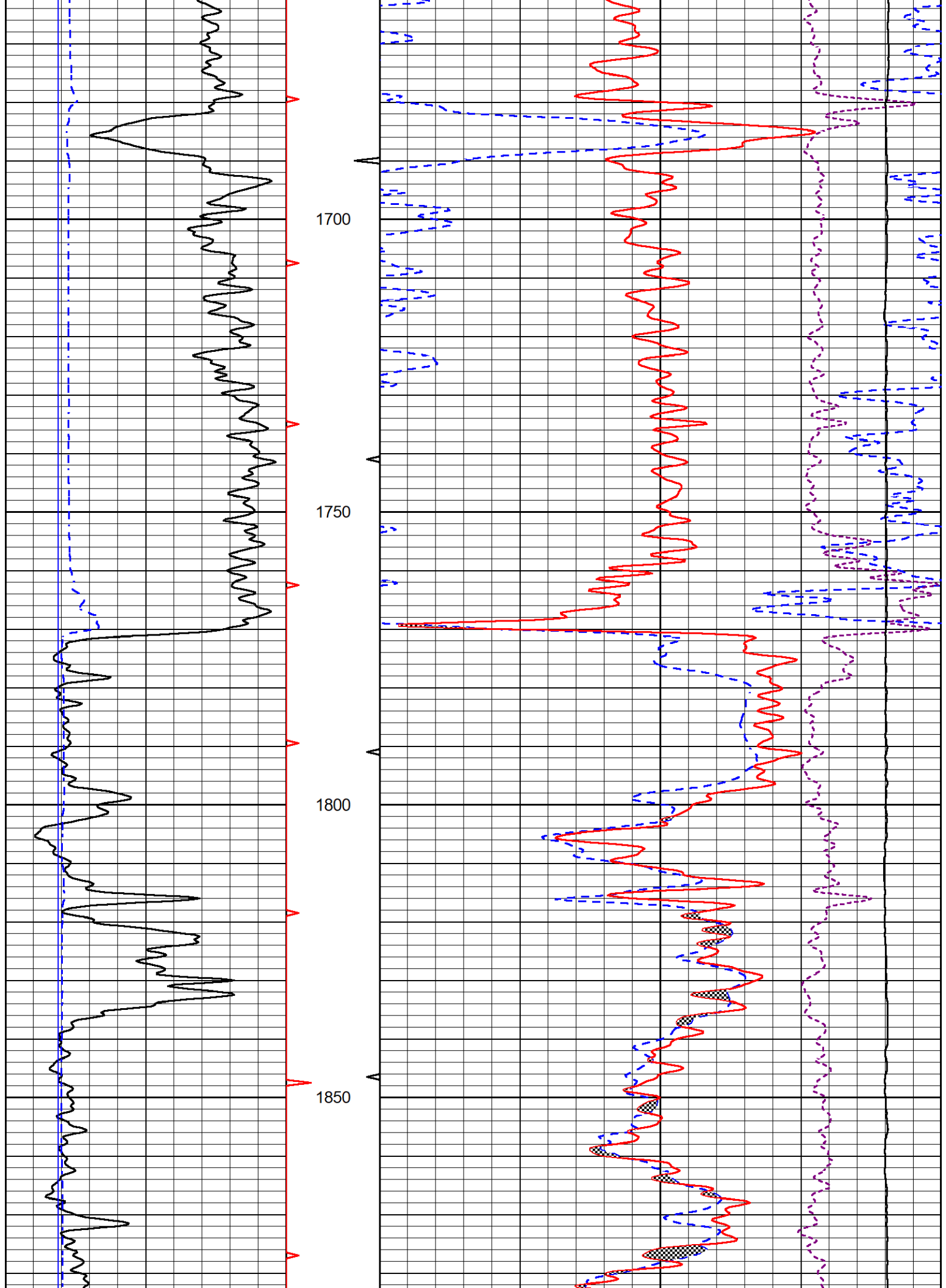


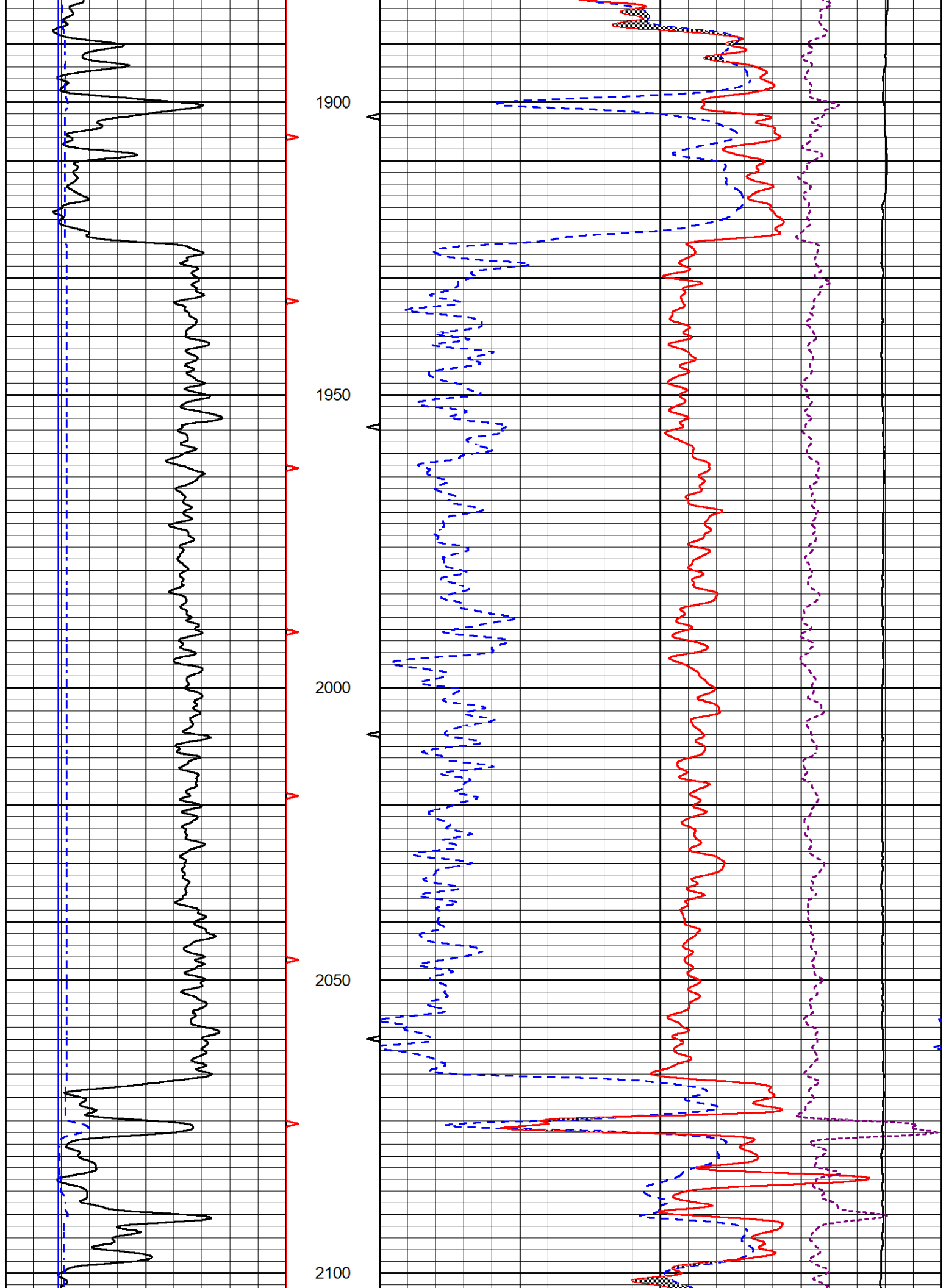


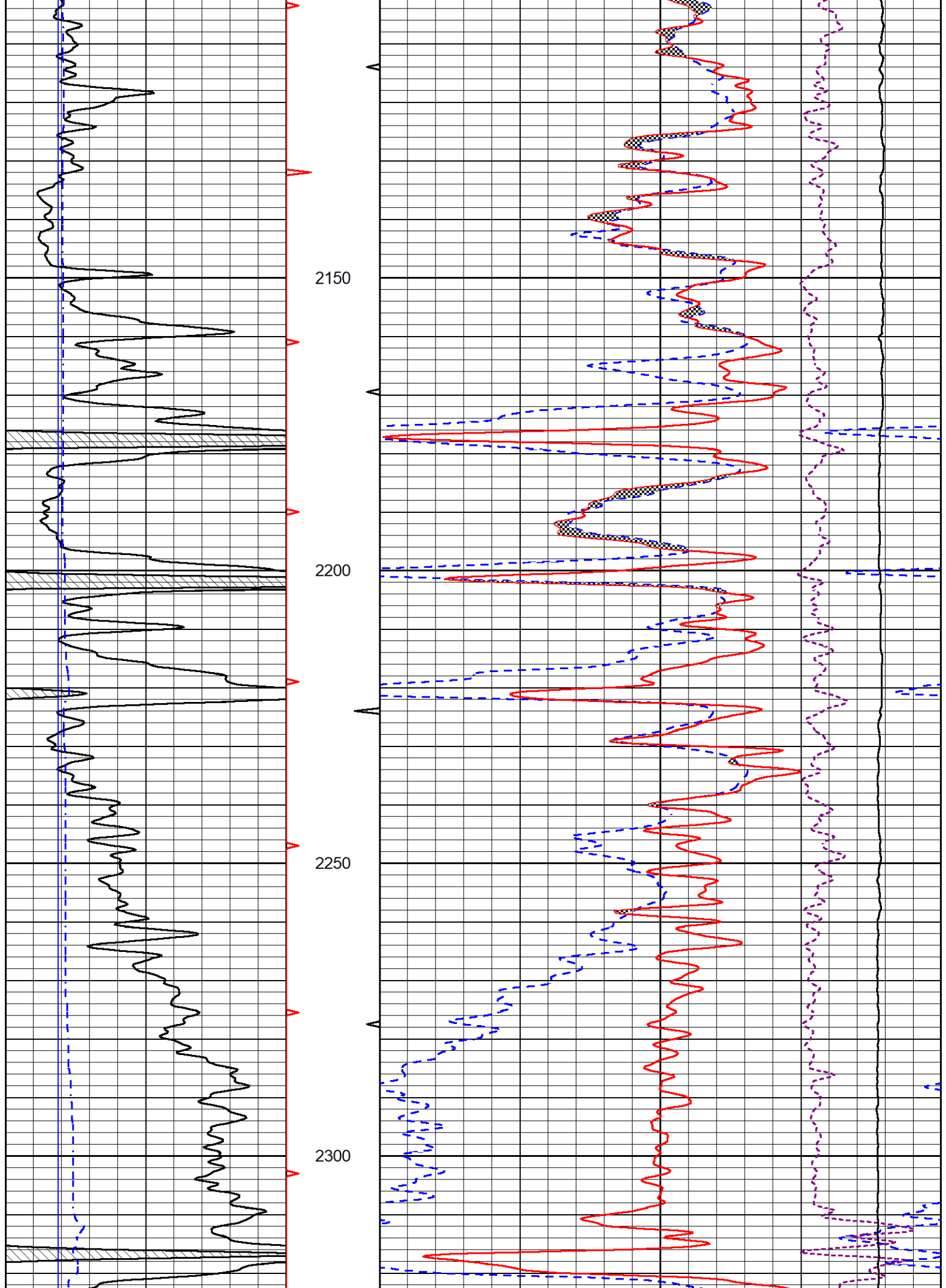


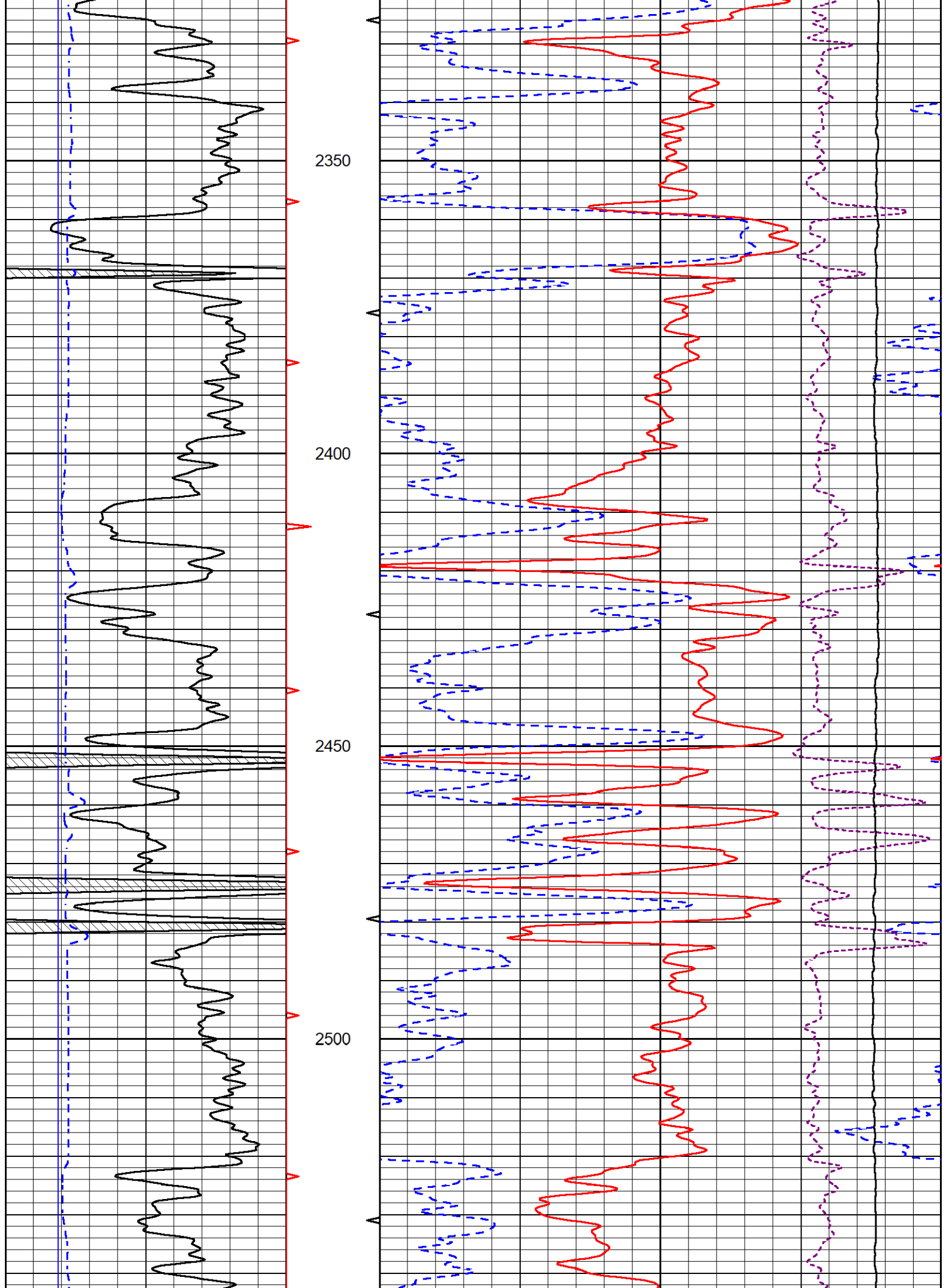


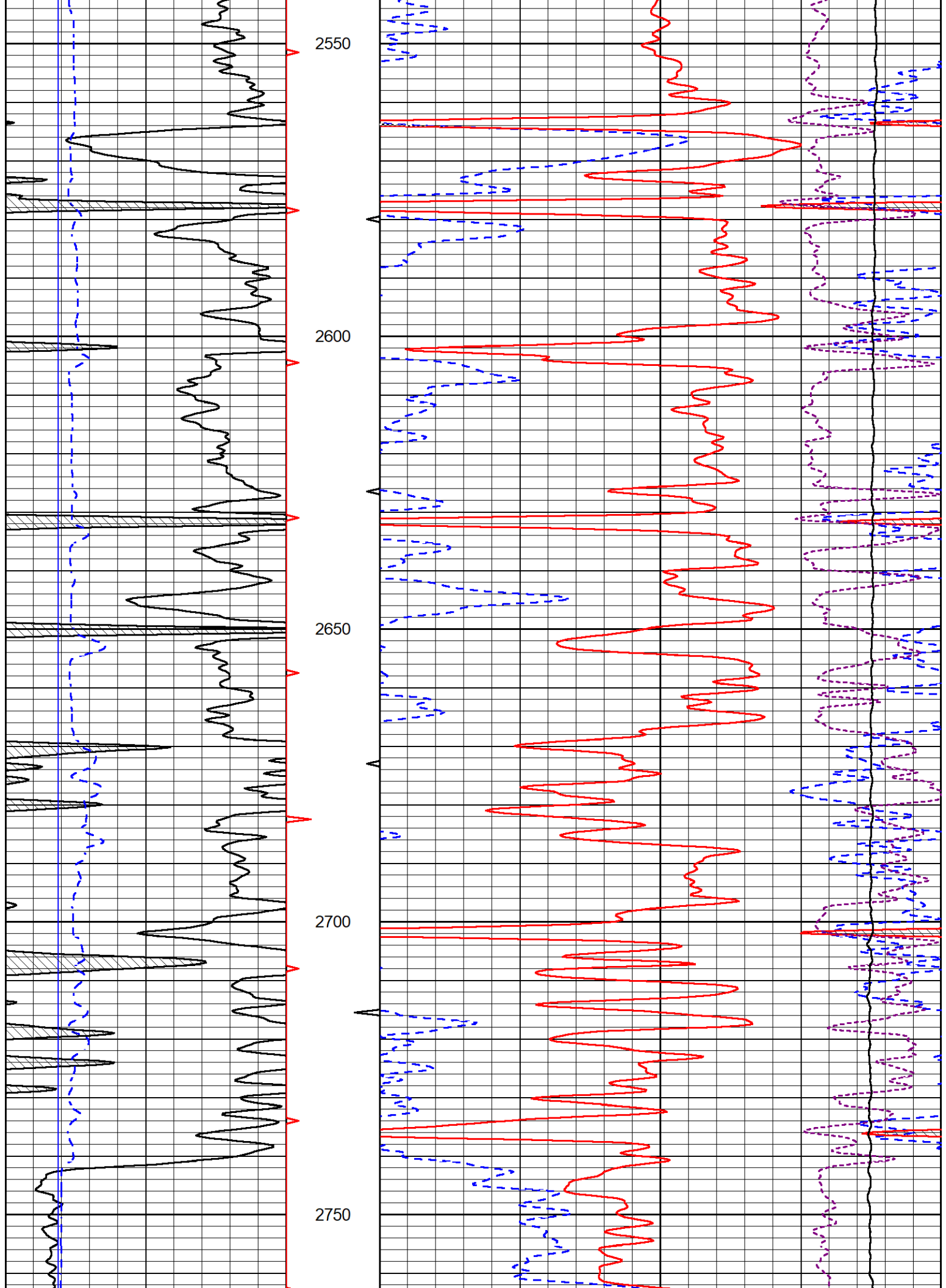


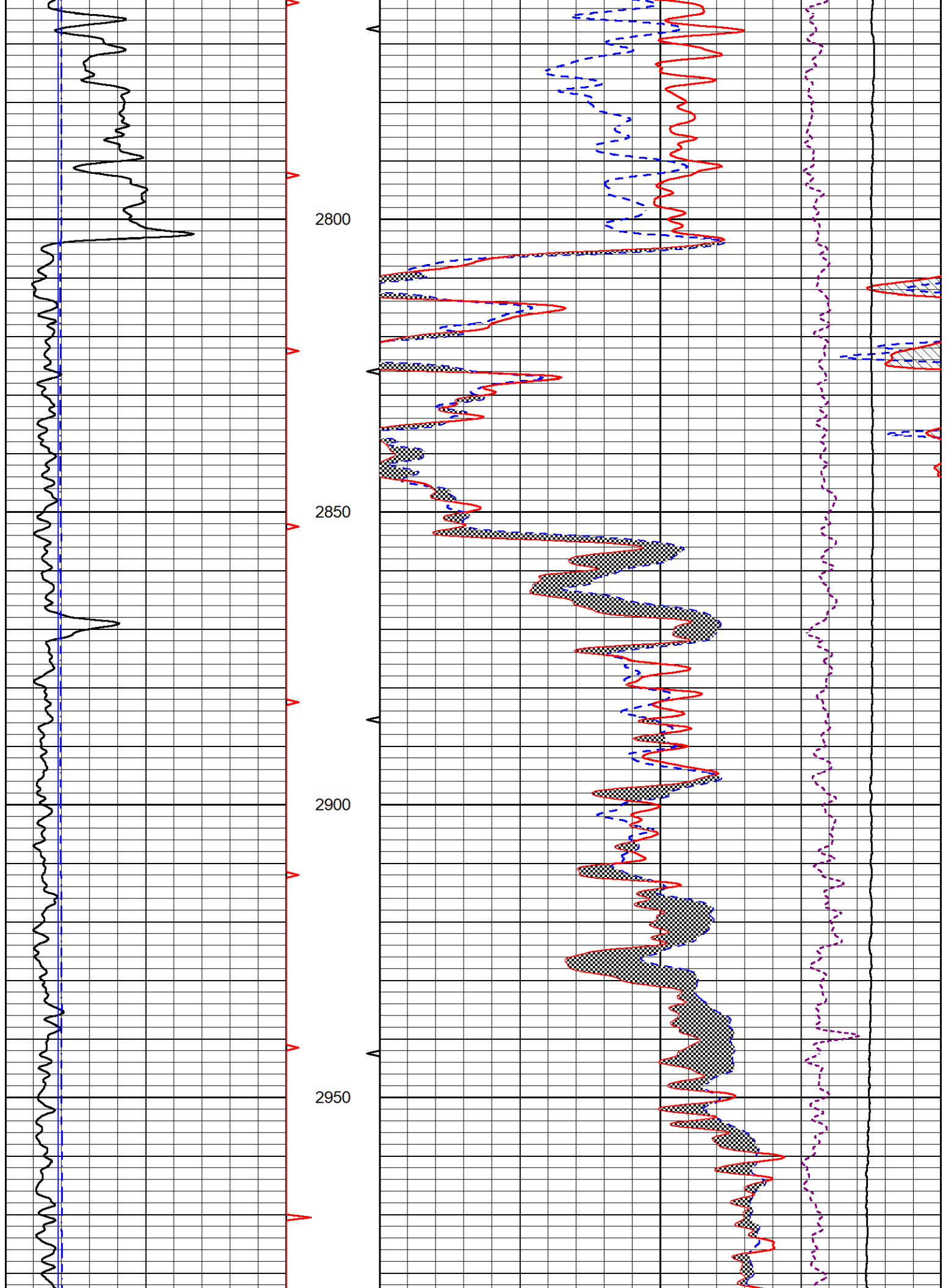


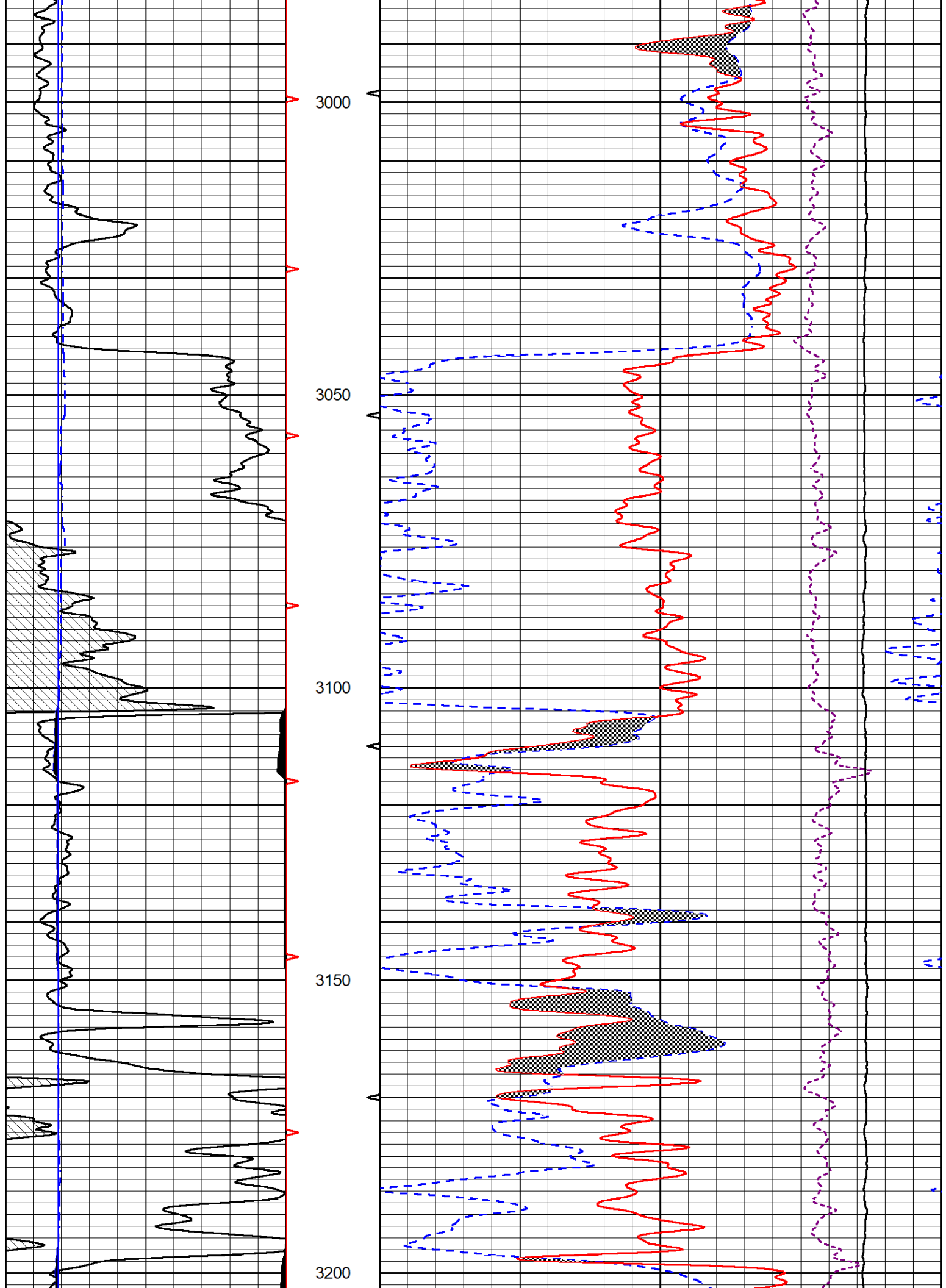


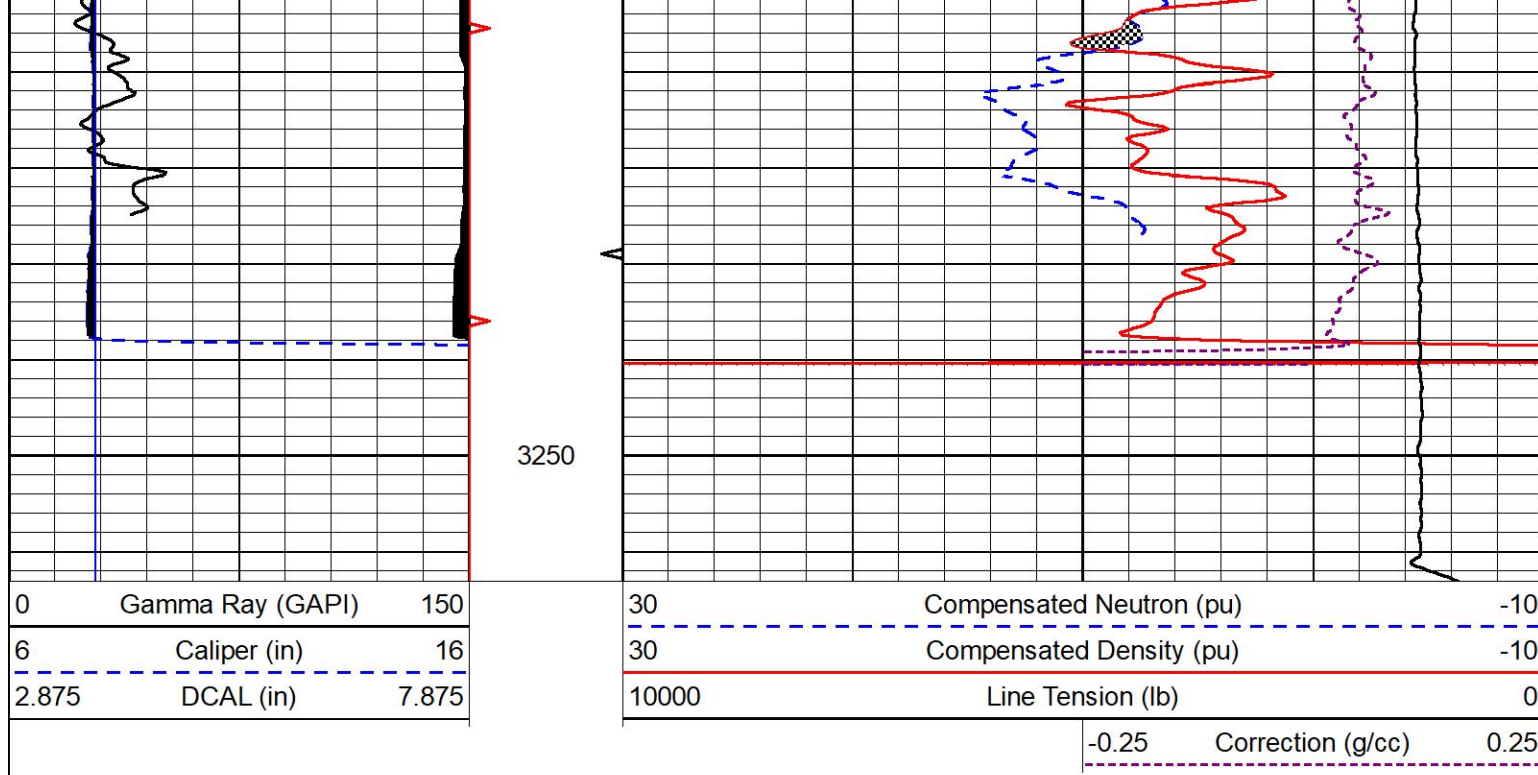










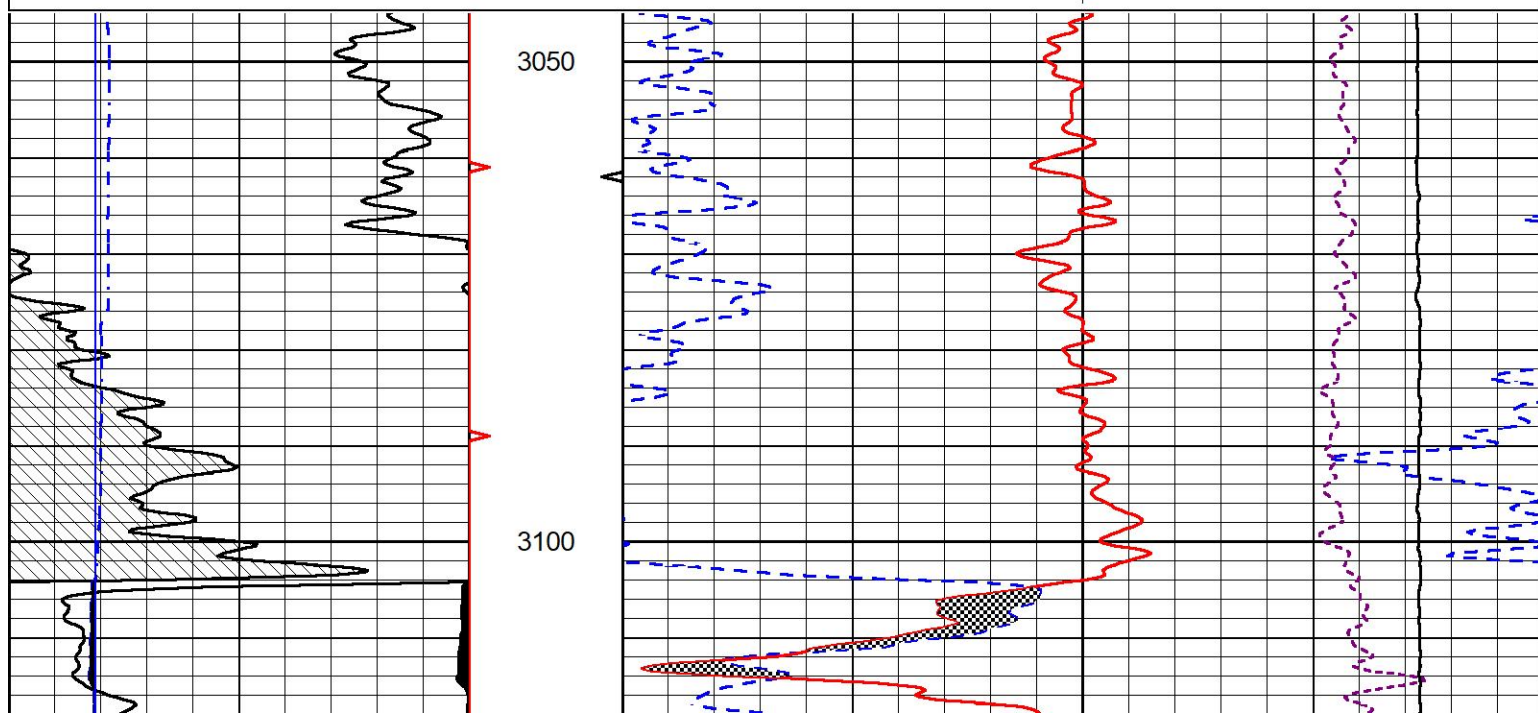
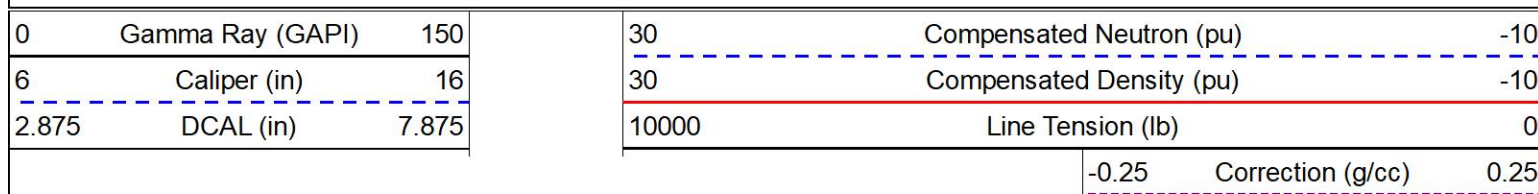


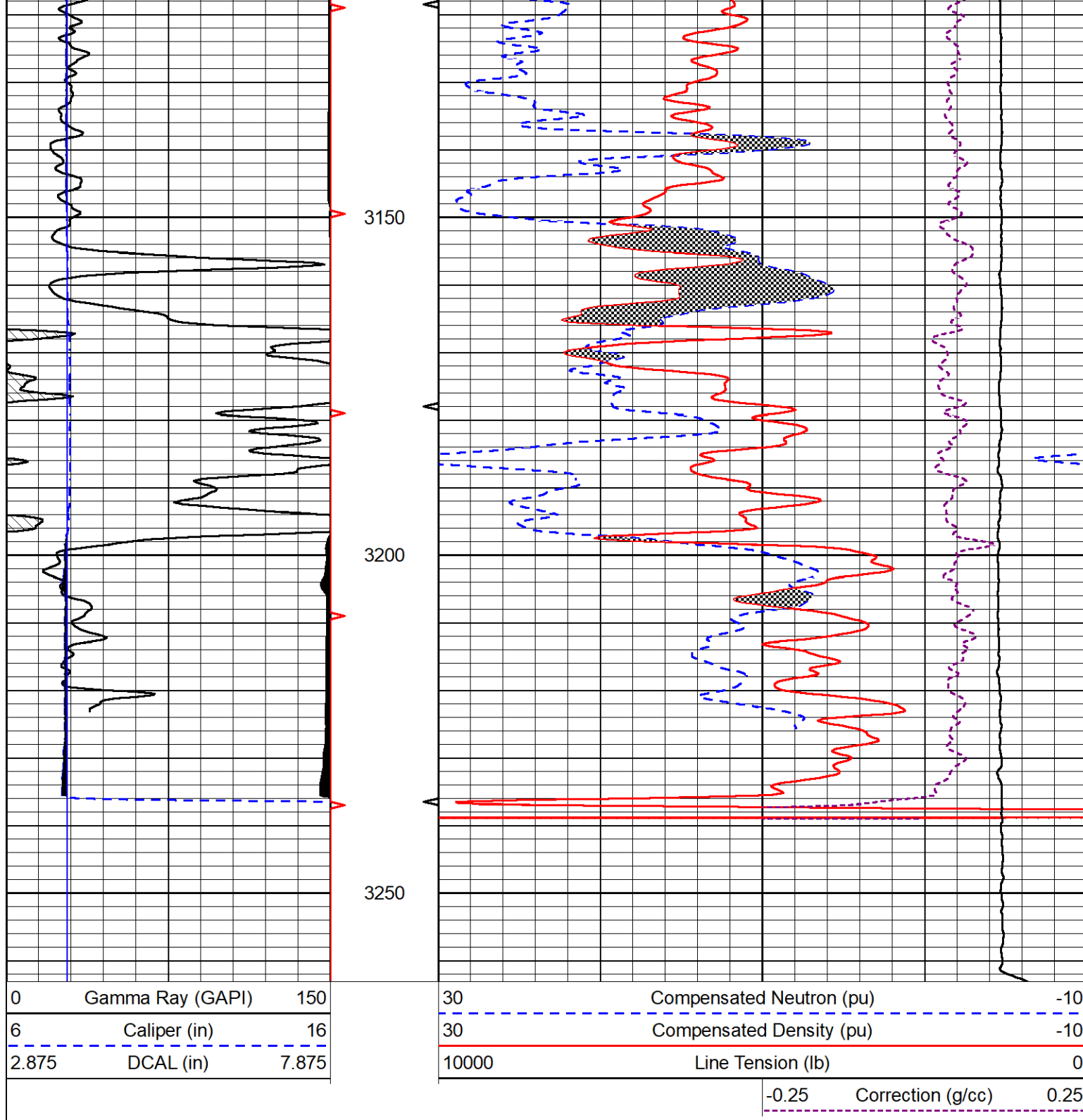
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File satchell creek_liggett a-1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Sun Nov 13 18:42:57 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File satchell creek_liggett a-1.db
Dataset Pathname StkMI/pass3.1
Dataset Creation Sun Nov 13 19:15:45 2022

Dual Induction Calibration Report

Serial-Model: 502 HT-M&W
Surface Cal Performed: Mon Nov 7 15:53:48 2022

Readings

References

Results

Loop:

Air

Loop

Air

Loop

m

b

Deep	83.639	487.104	0.000	255.800	mmho/m	0.454	-31.000
Medium	113.335	1585.690	0.000	255.800	mmho/m	0.350	-11.000

Microlog Calibration Report							
Serial-Model: Performed:				401-PSIML Mon Nov 7 15:53:59 2022			
		Readings		References		Results	
		Zero	Cal	Zero	Cal	m	b
Normal		0.0000	1.0000	0.0000	1.0000	Ohm-m	16000.0000
Inverse		0.0000	1.0000	0.0000	1.0000	Ohm-m	15500.0000
Caliper		1.0052	1.0858	5.0000	16.5000	in	98.0000

Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:				305-24-M&W 20762B Mon Jun 20 16:54:11 2022			
Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.755	g/cc	4771.35		5494.27	cps
Aluminum		2.650	g/cc	908.54		3539.54	cps
Spine Angle = 75.15				Density/Spine Ratio = 0.522			
		Size		Reading			
Small Ring		4.00	in	1.74			
Large Ring		14.00	in	1.38			

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 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:	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	

 MIDWEST WIRELINE	Company	Satchell Creek Petroleum LLC
	Well	Liggett A-1
	Field	
	County	Butler
	State	Kansas