

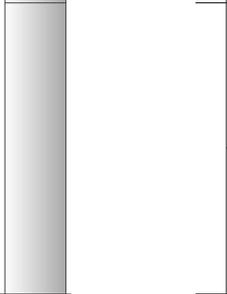
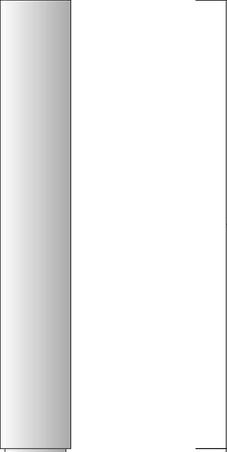
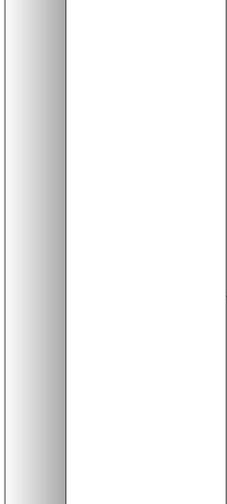


# Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin\_youngmeyer\_a\_1\_14.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	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	-190	76	Off	3279

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (168-986)	8.50	4.00	250.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-PSI HIGH TEMP (PSI 216 HT)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: murfin\_youngmeyer\_a\_1\_14.db: field/well/stack/pass3.1  
 Total length: 35.50 ft  
 Total weight: 620.00 lb  
 O.D.: 4.00 in

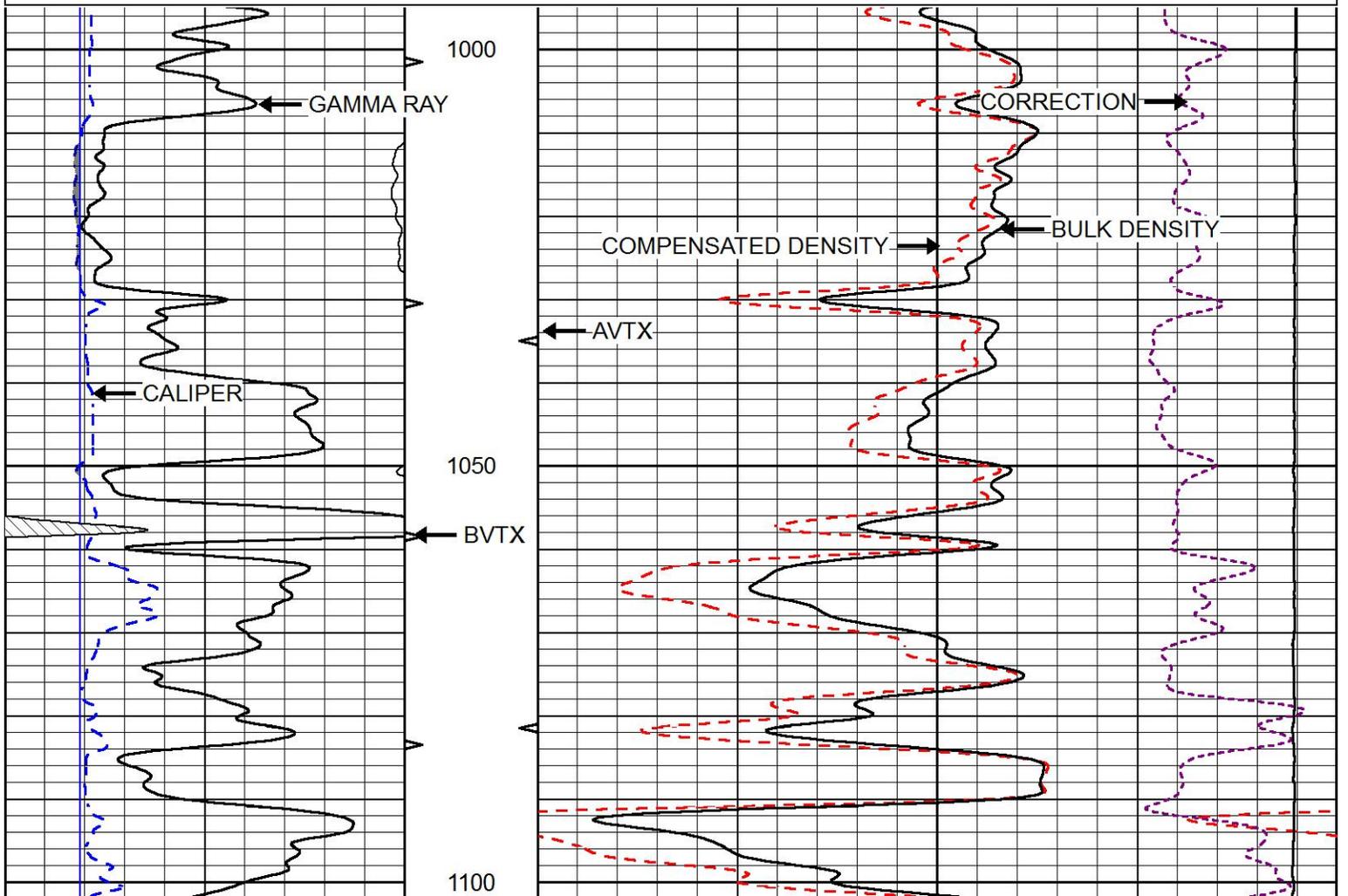


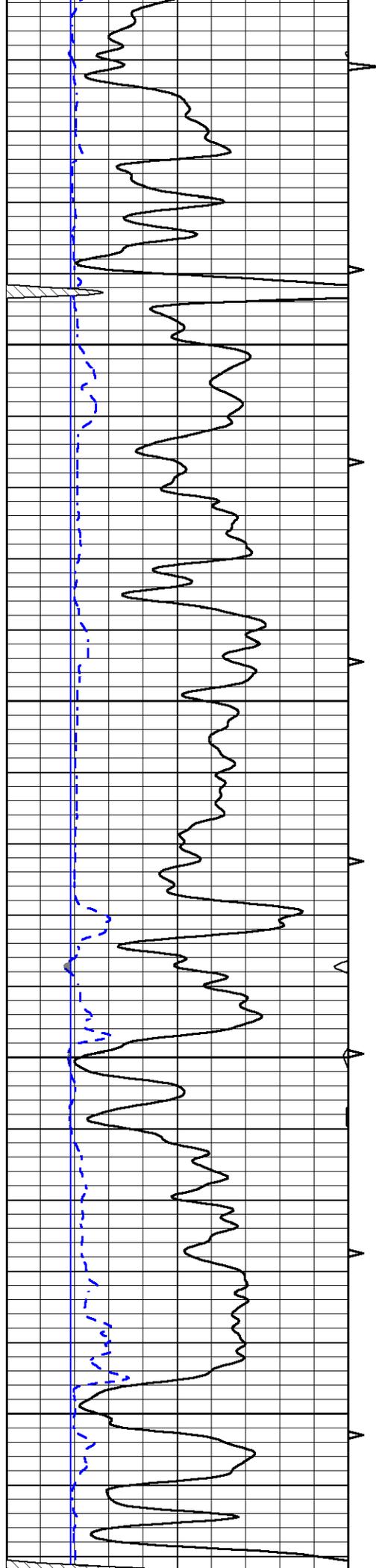
# MAIN PASS

Database File murfin\_youngmeyer\_a\_1\_14.db  
 Dataset Pathname stack/pass3.1  
 Presentation Format cdl  
 Dataset Creation Sun Jul 16 23:39:50 2017  
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25



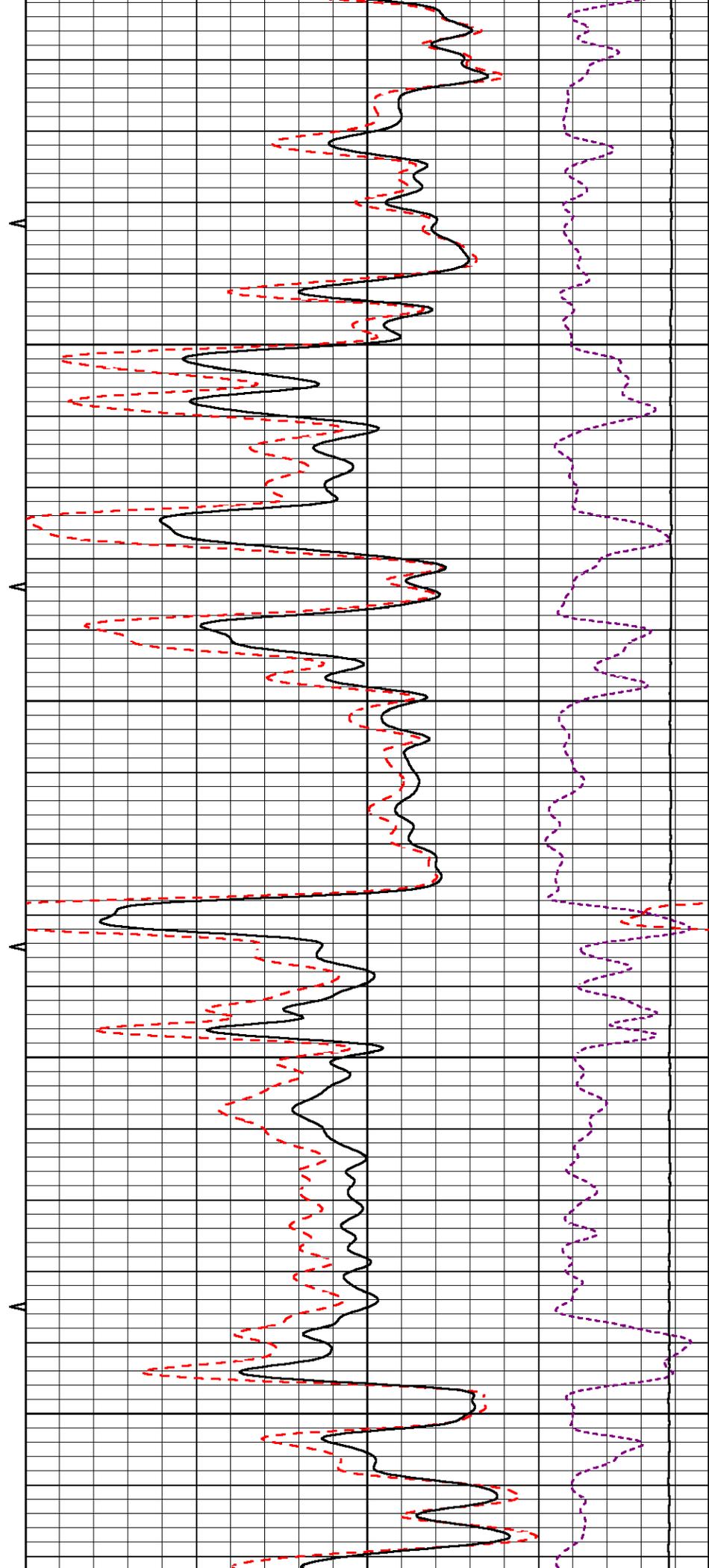


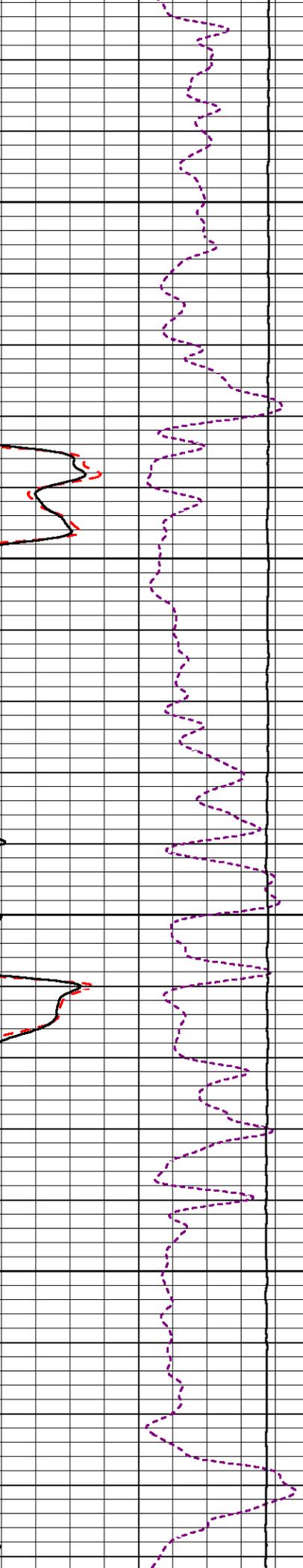
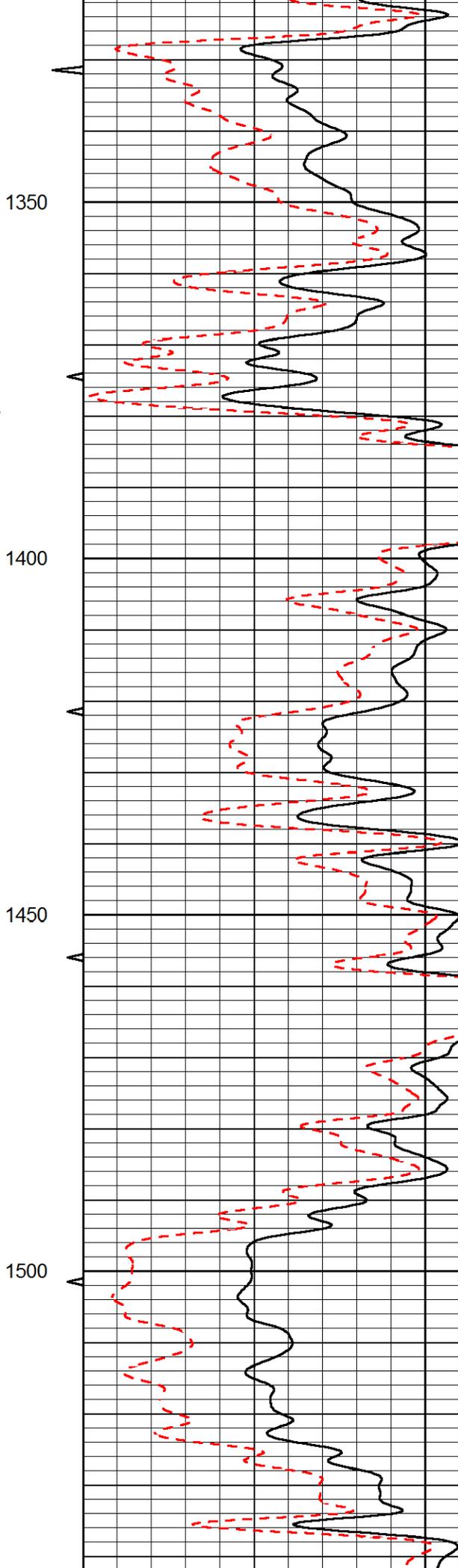
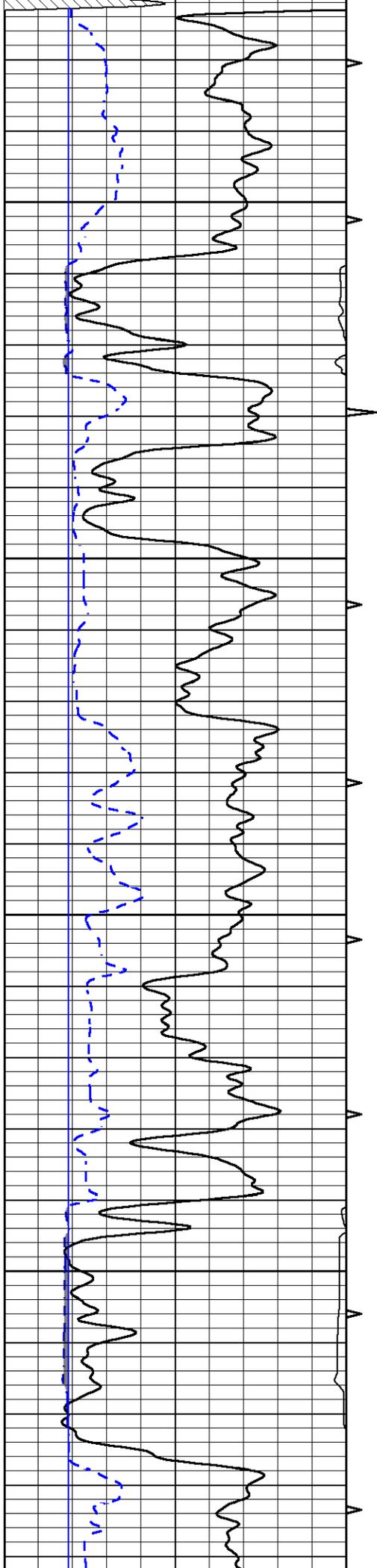
1150

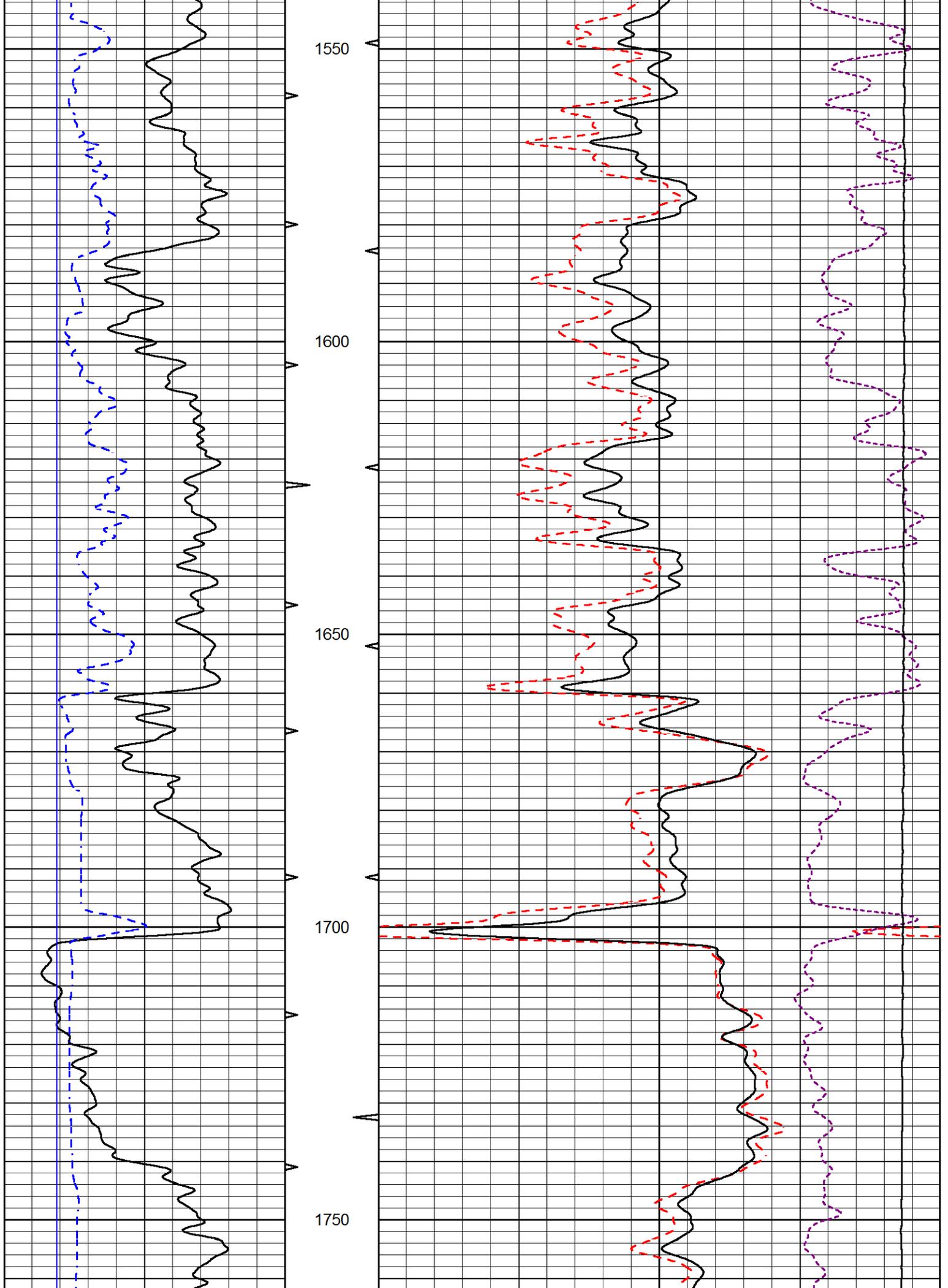
1200

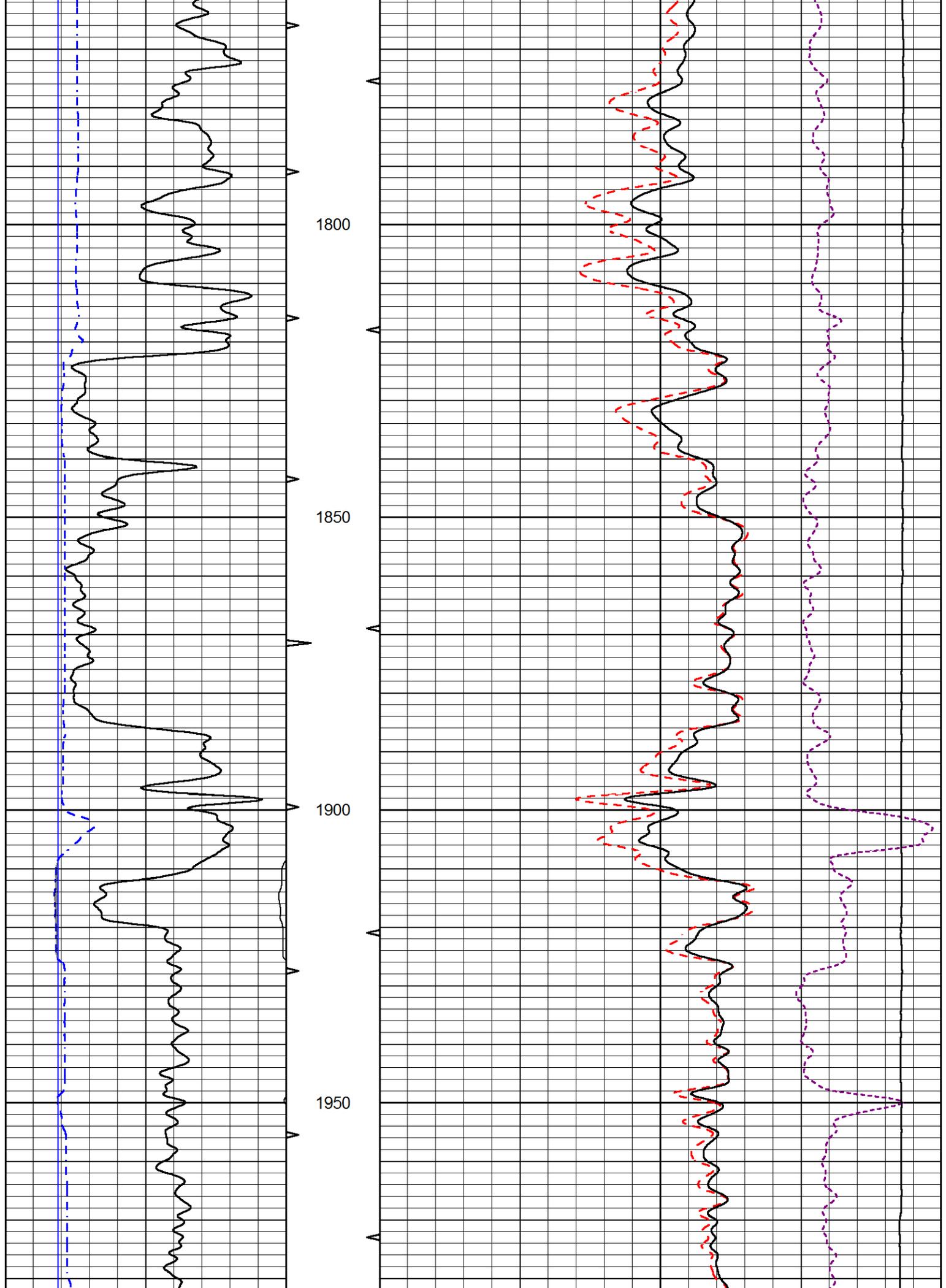
1250

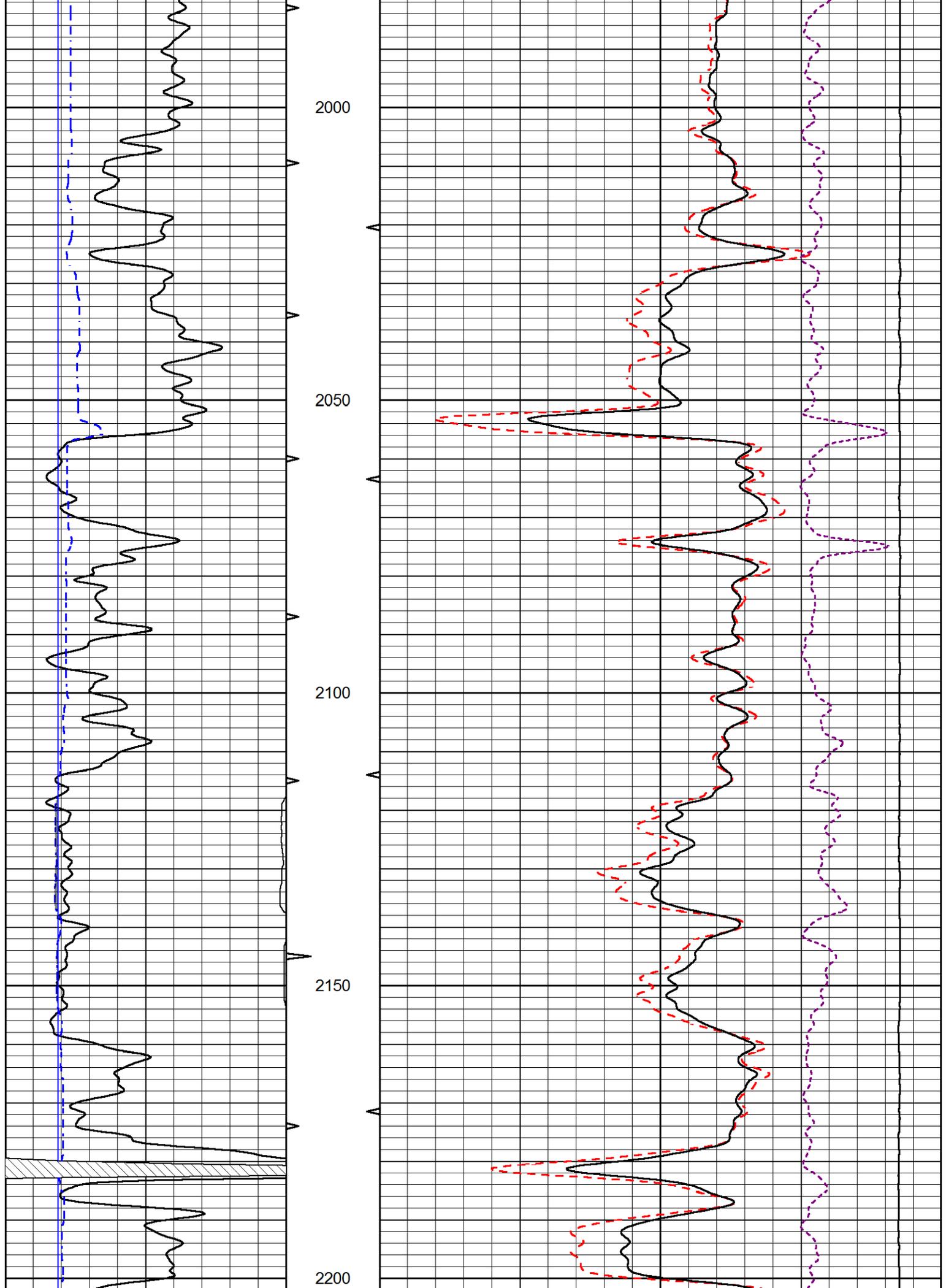
1300

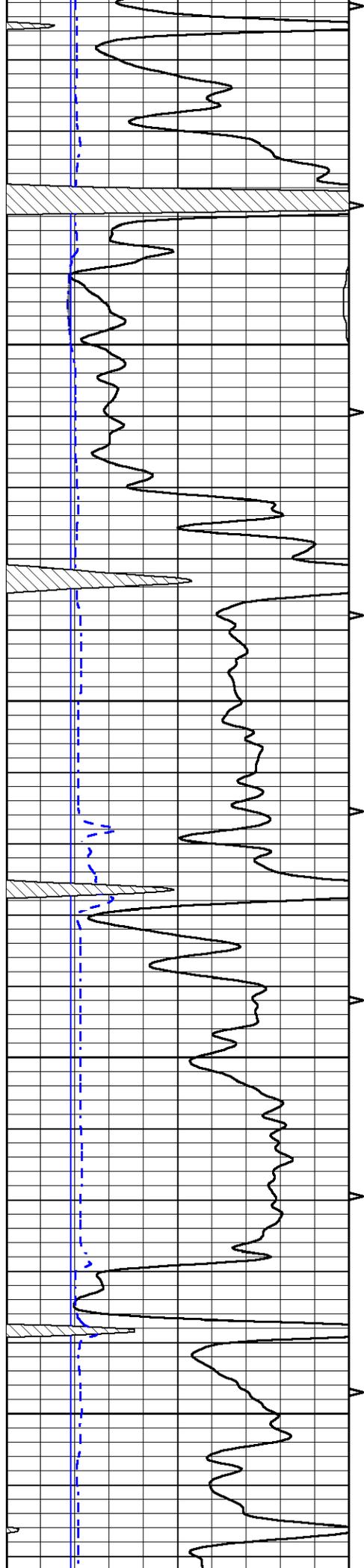










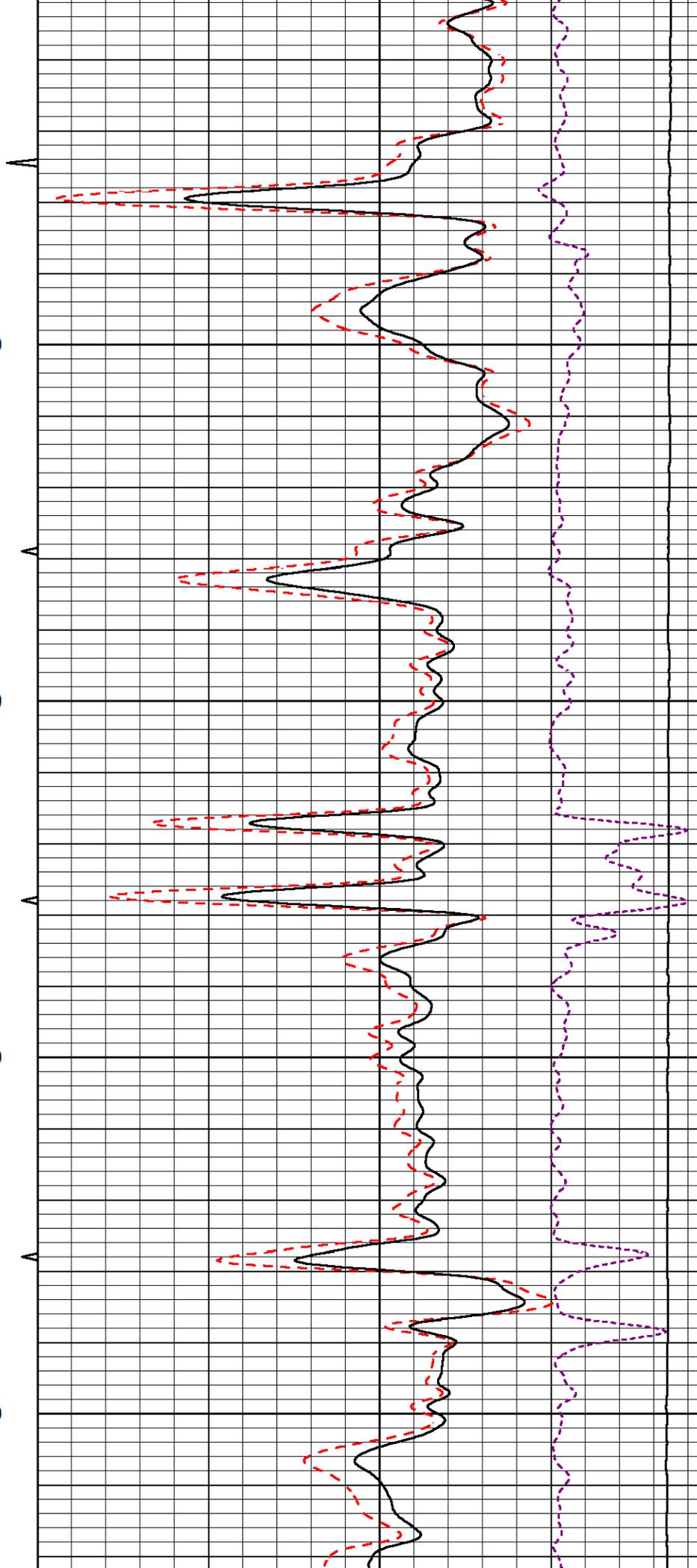


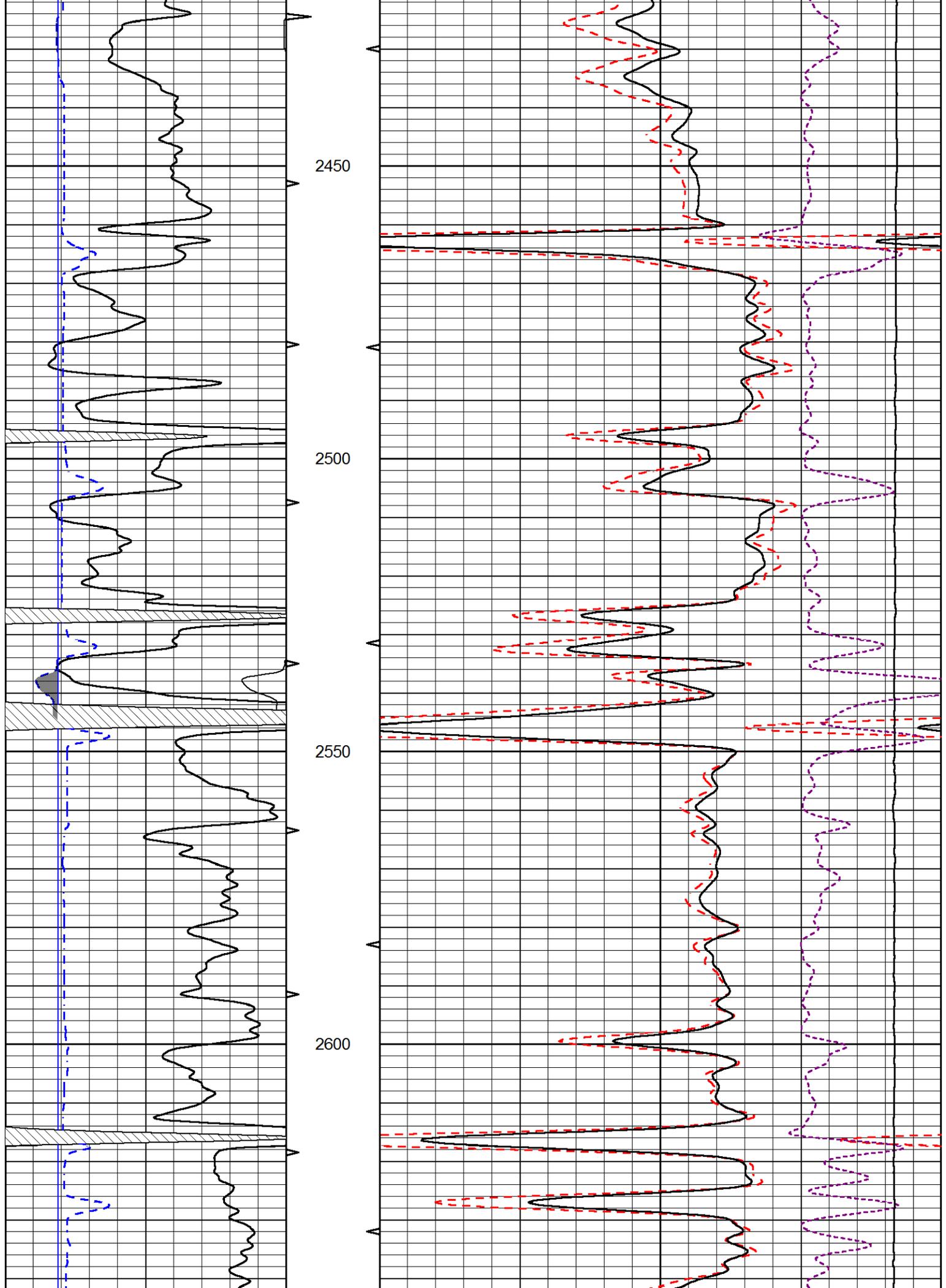
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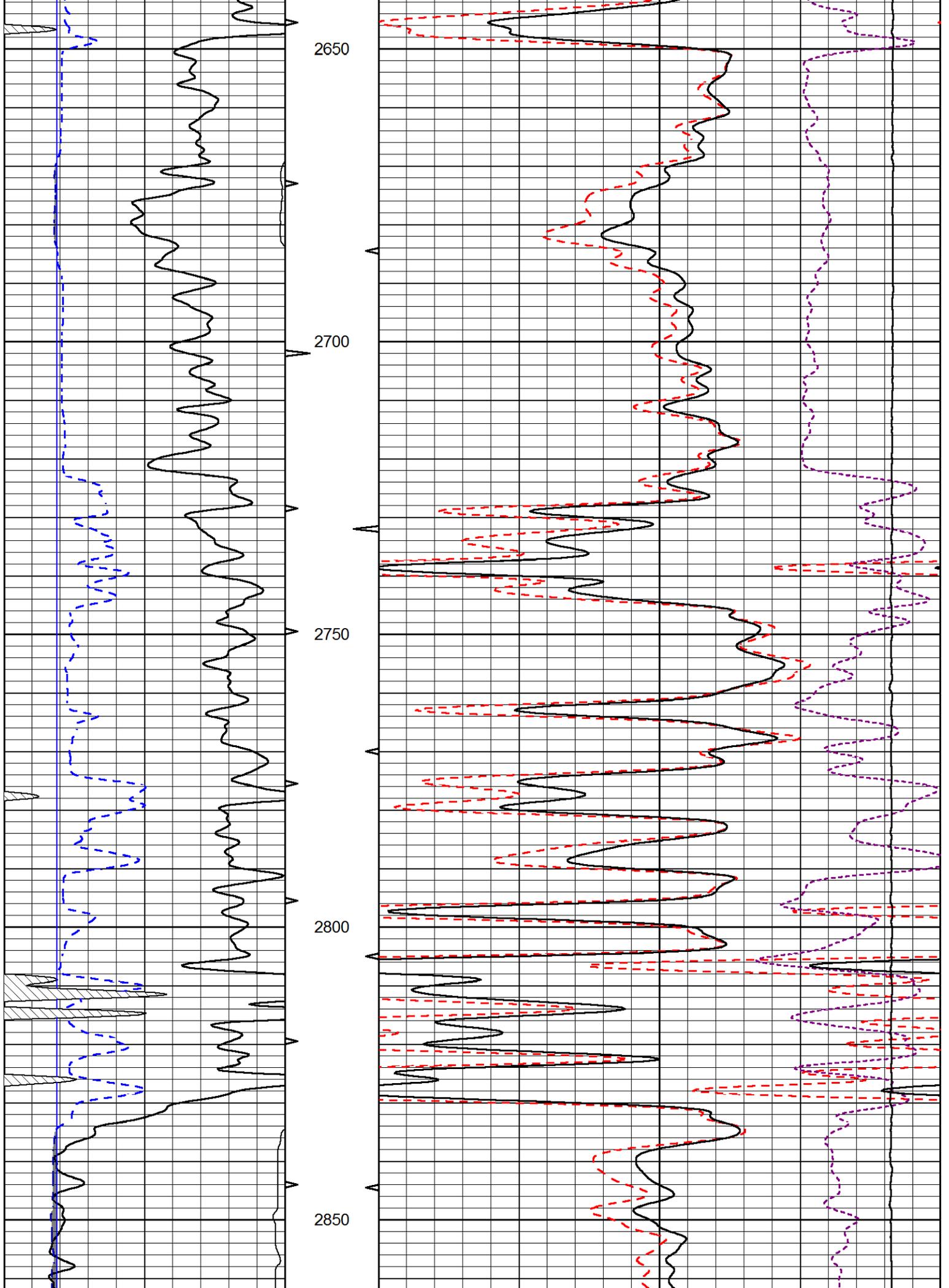
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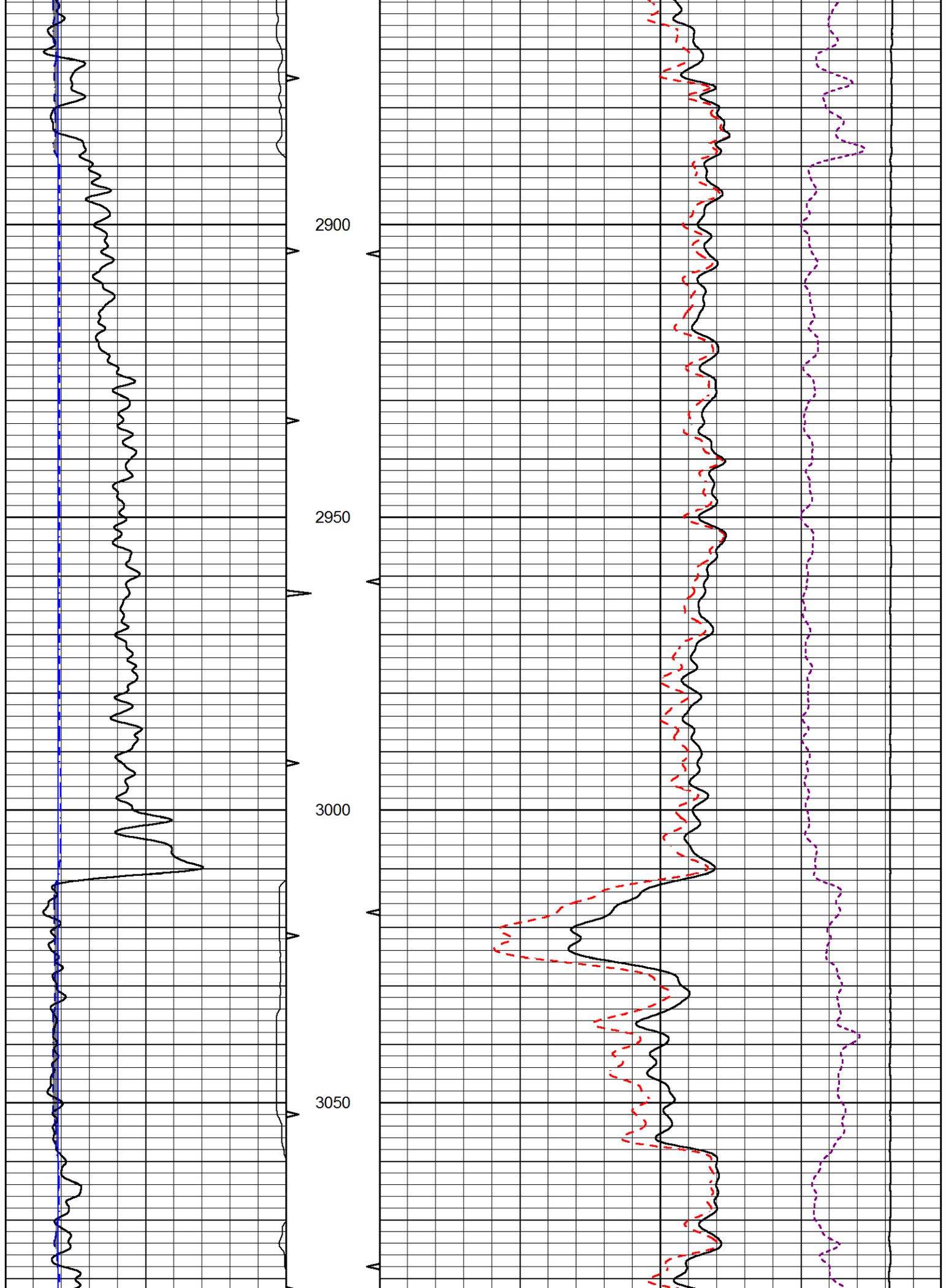
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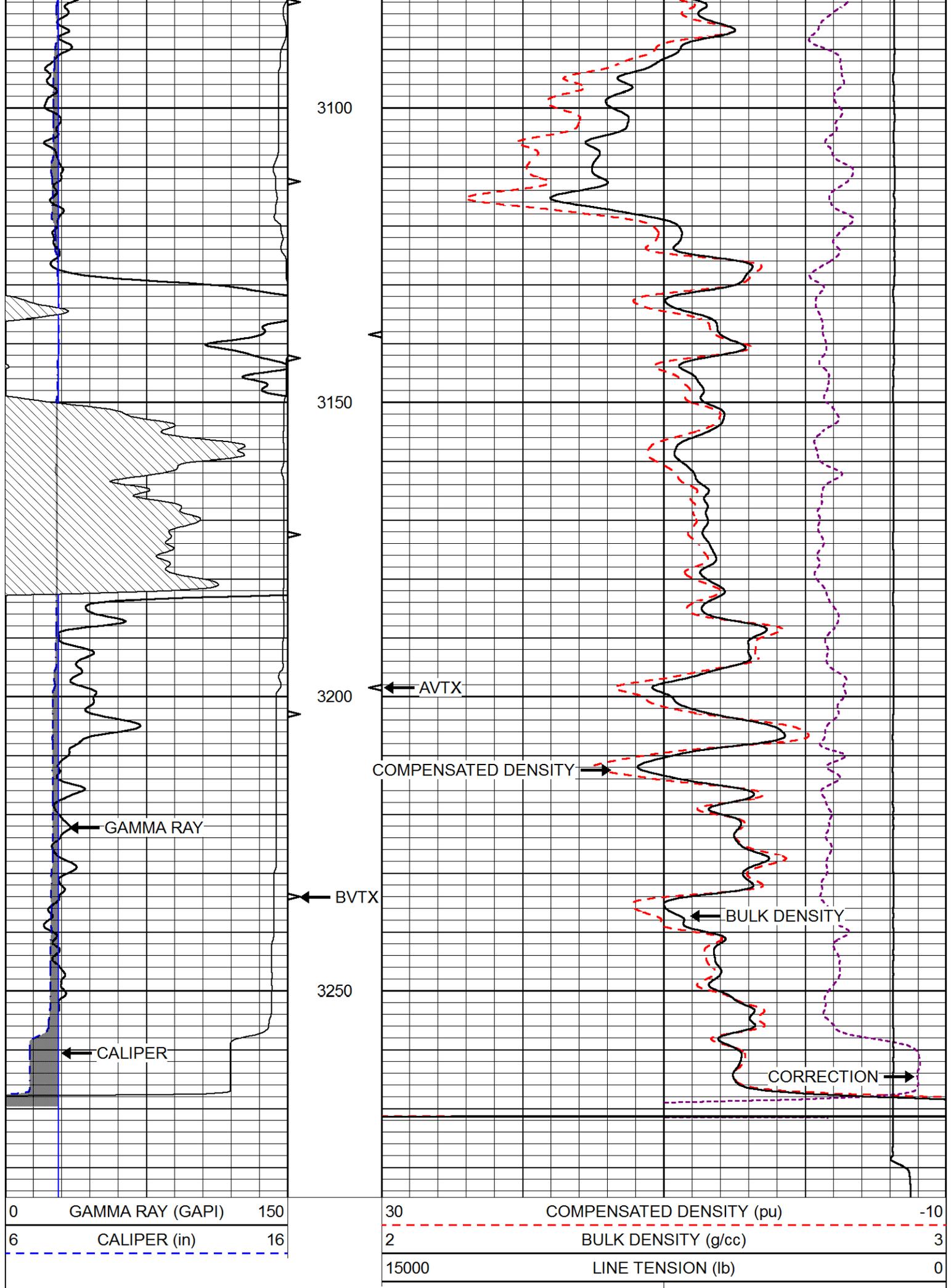
2400













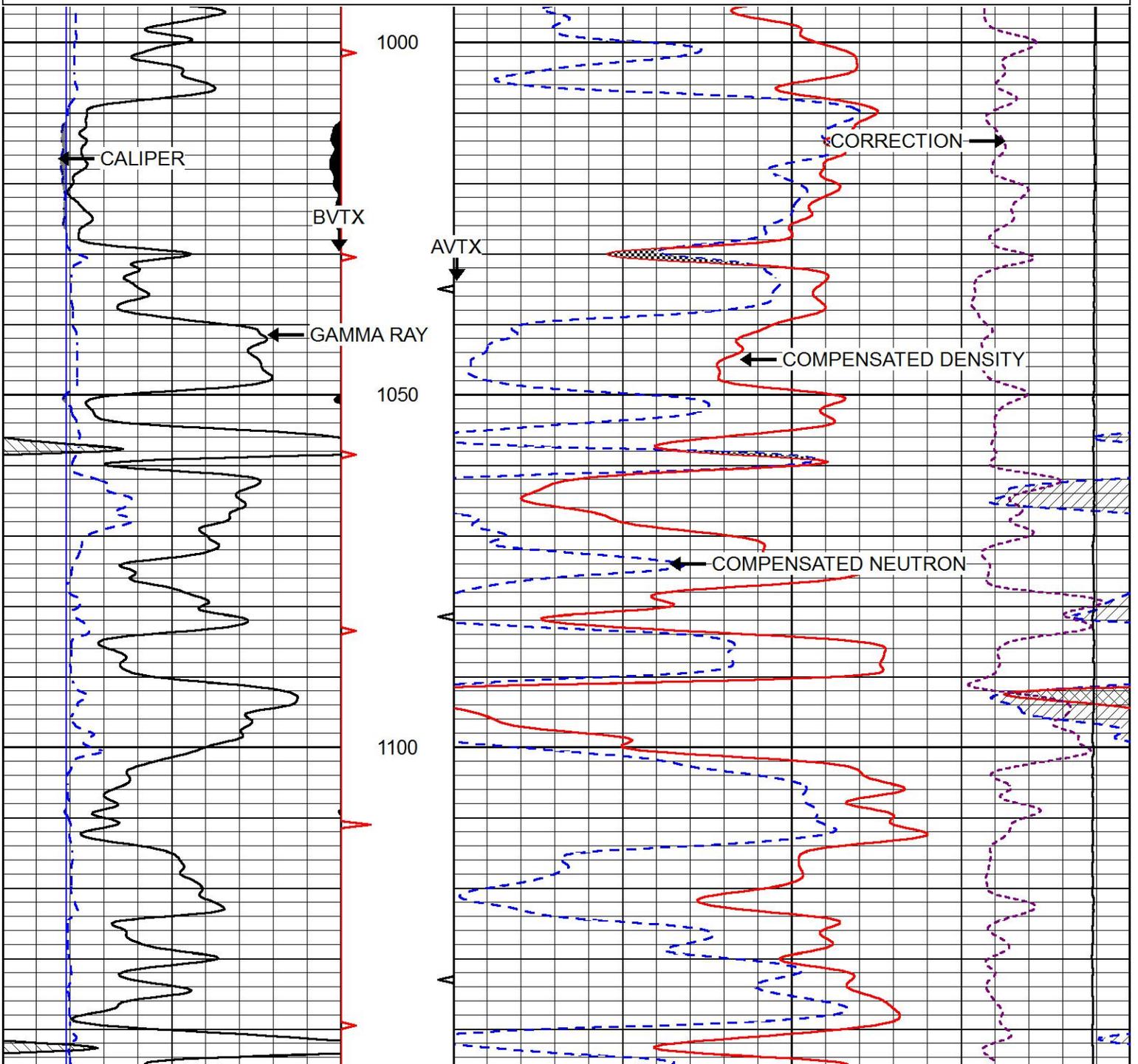
# MAIN PASS

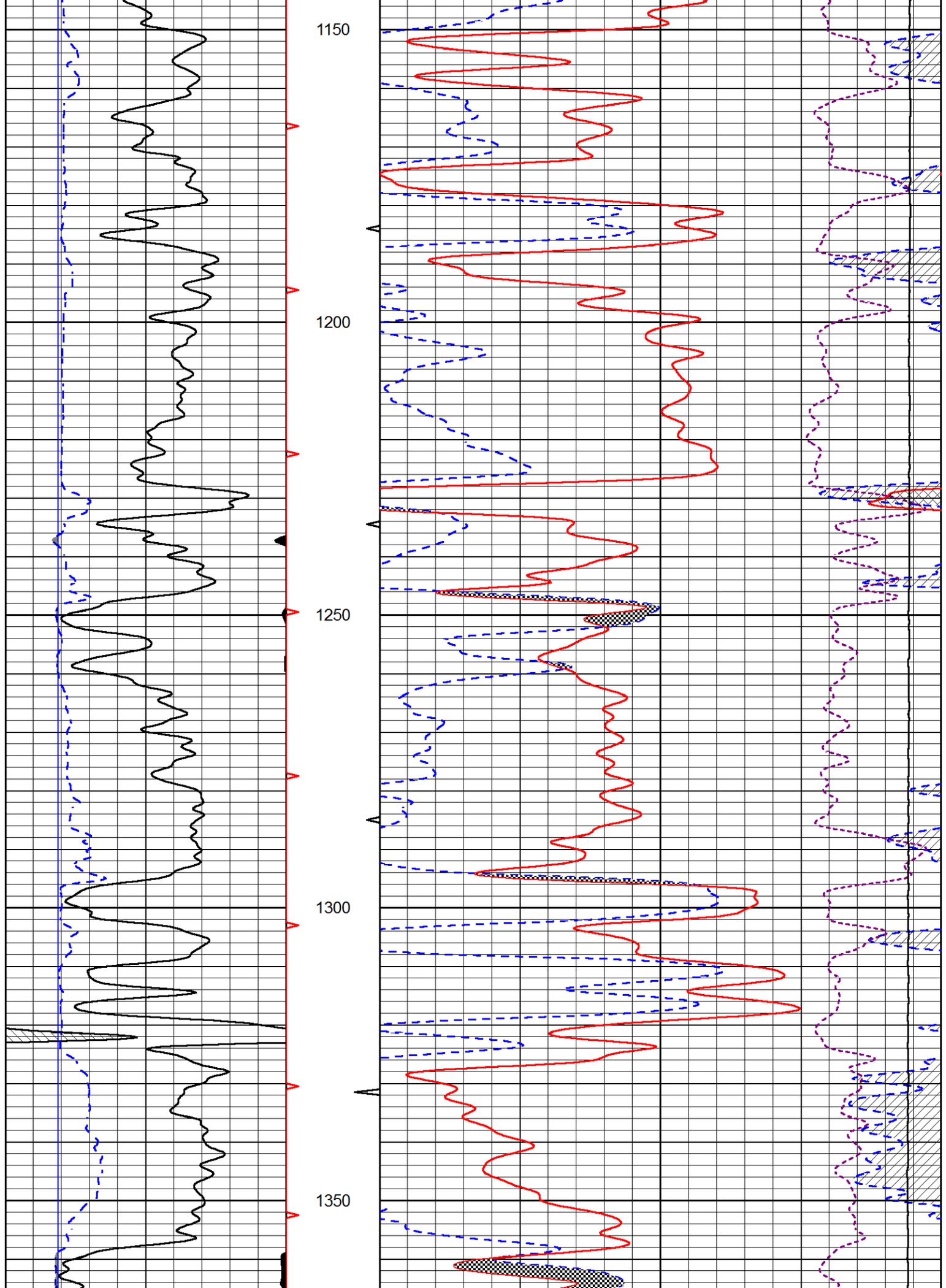
Database File murfin\_youngmeyer\_a\_1\_14.db  
 Dataset Pathname stack/pass3.1  
 Presentation Format cndlspec  
 Dataset Creation Sun Jul 16 23:39:50 2017  
 Charted by Depth in Feet scaled 1:240

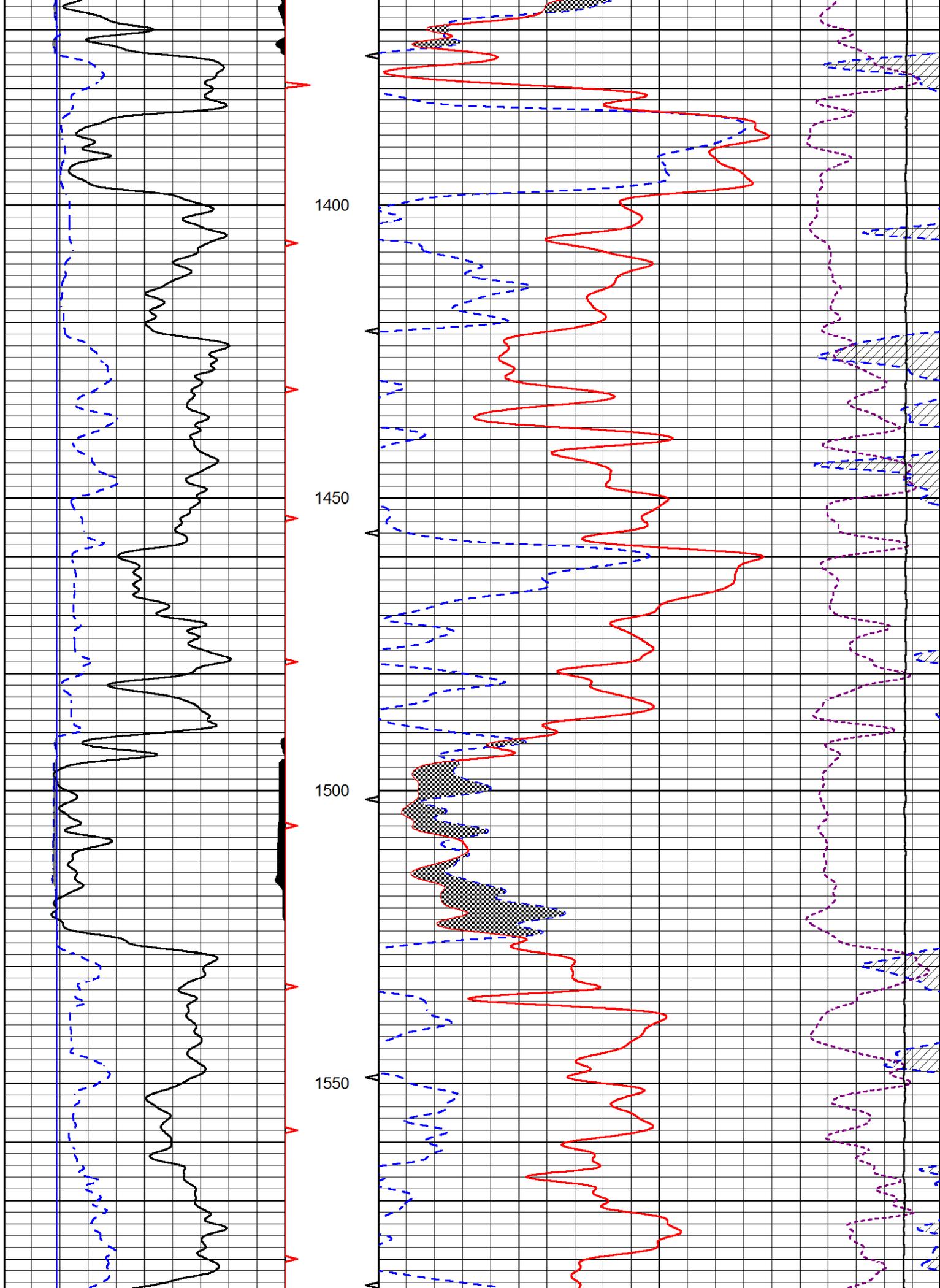
0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

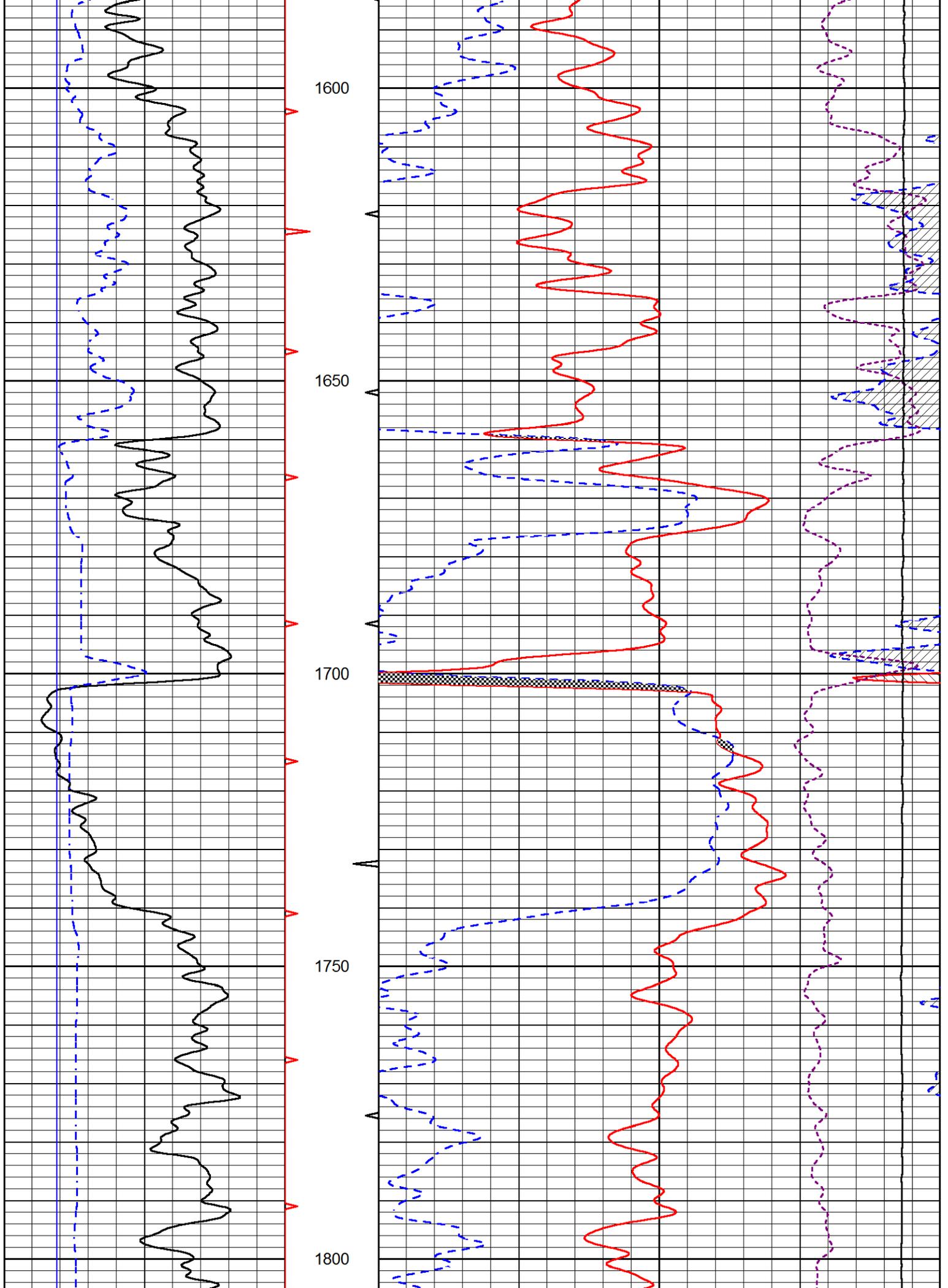
30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0

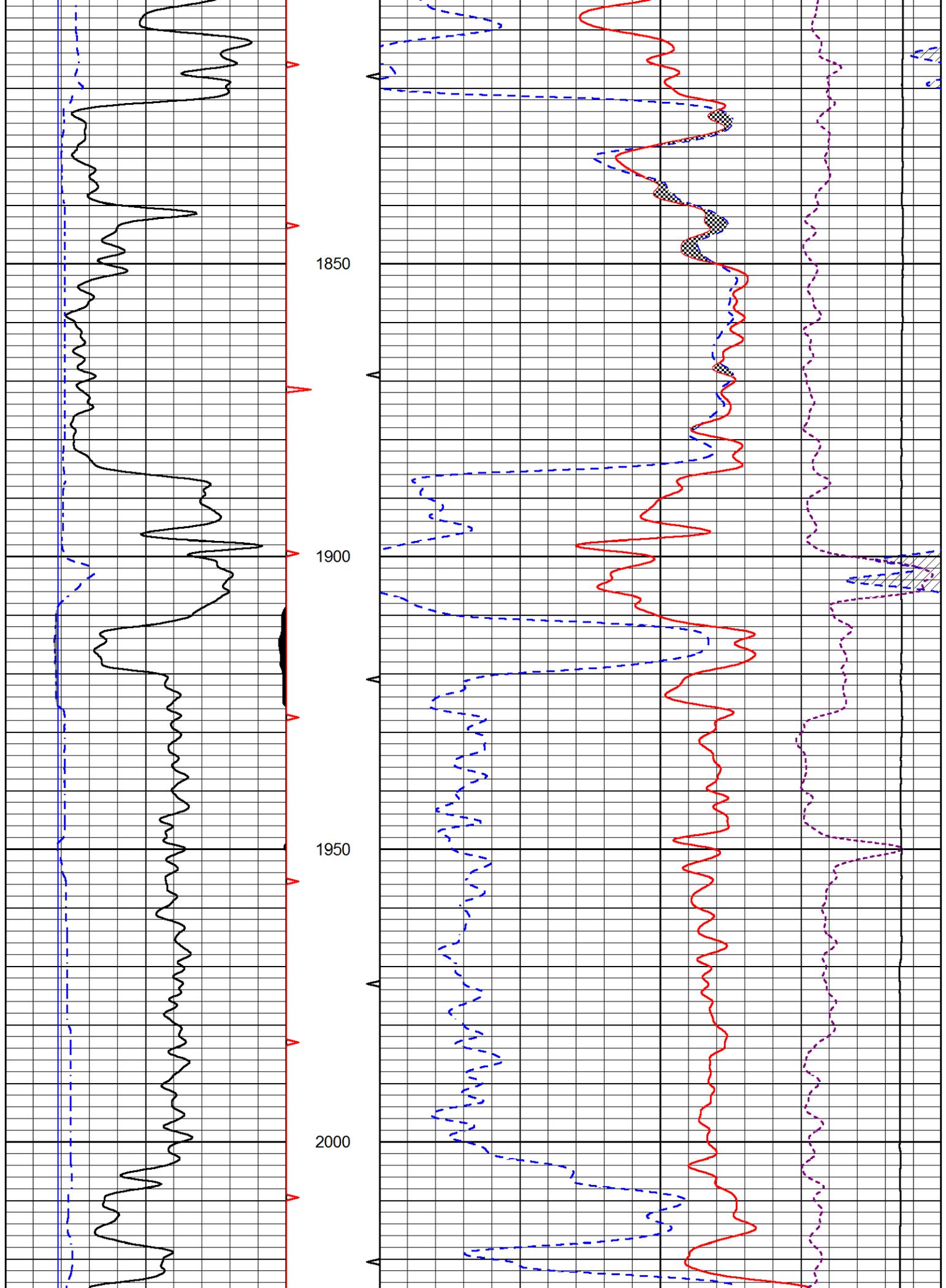
-0.25 CORRECTION (g/cc) 0.25

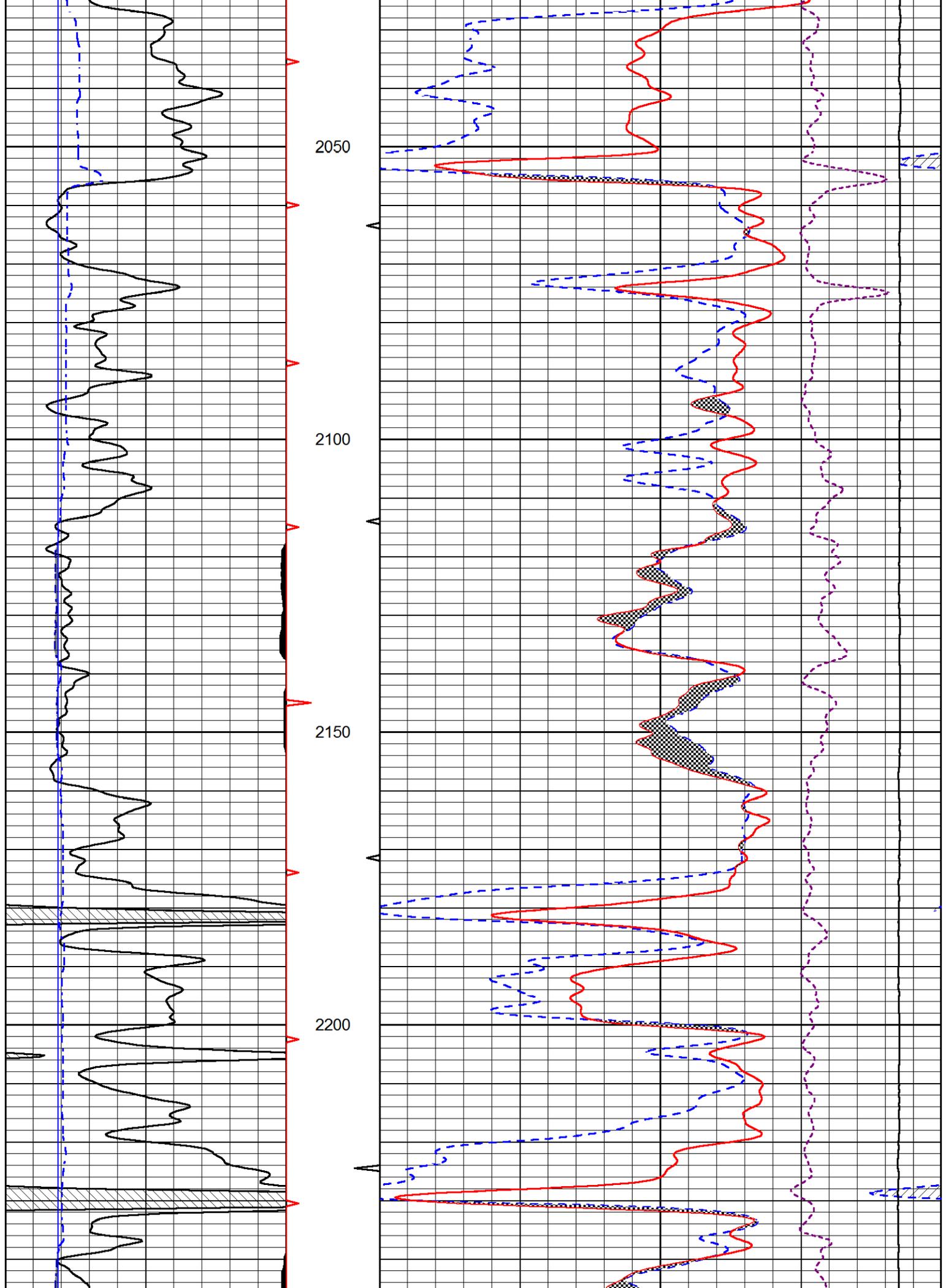


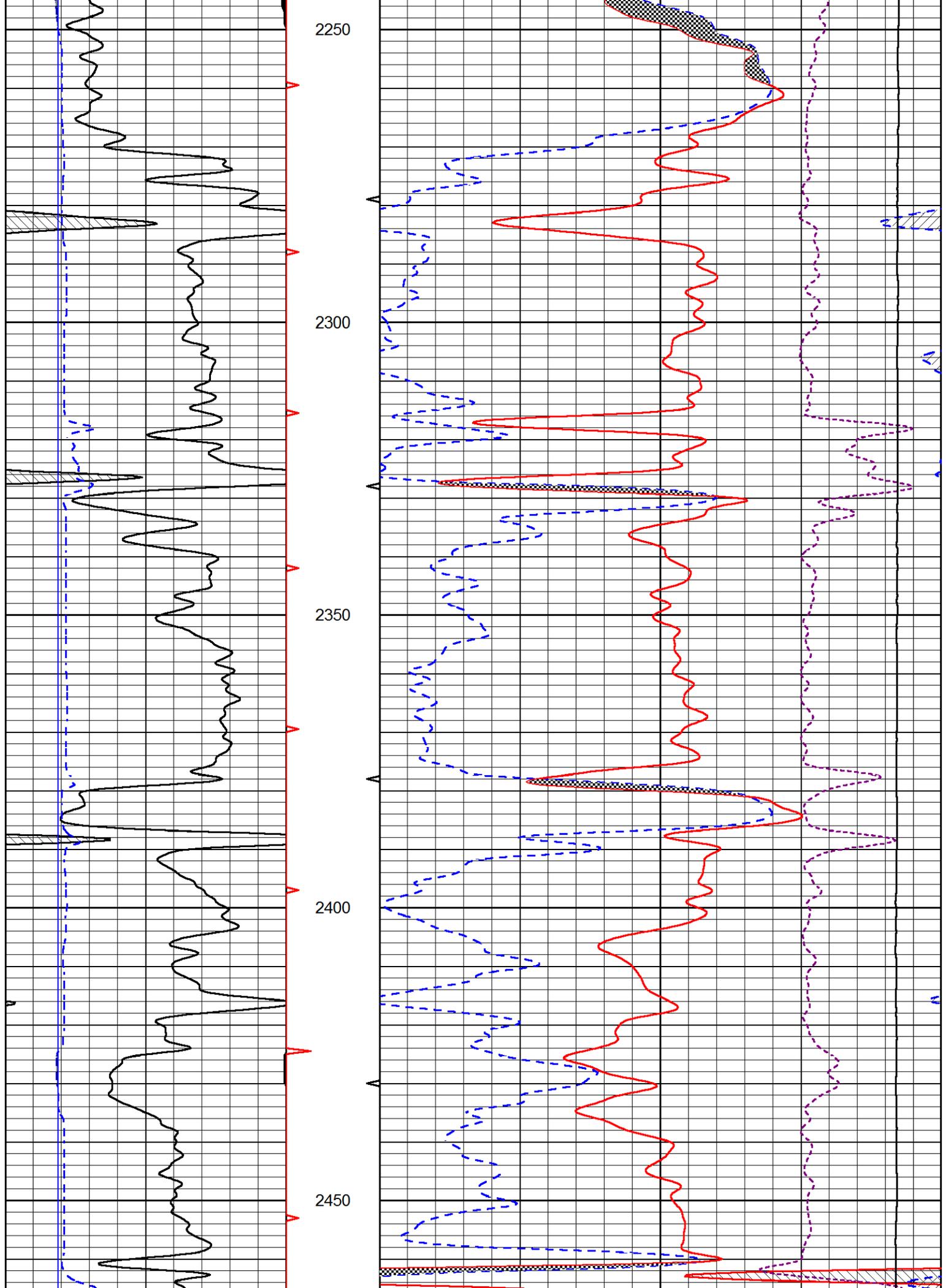


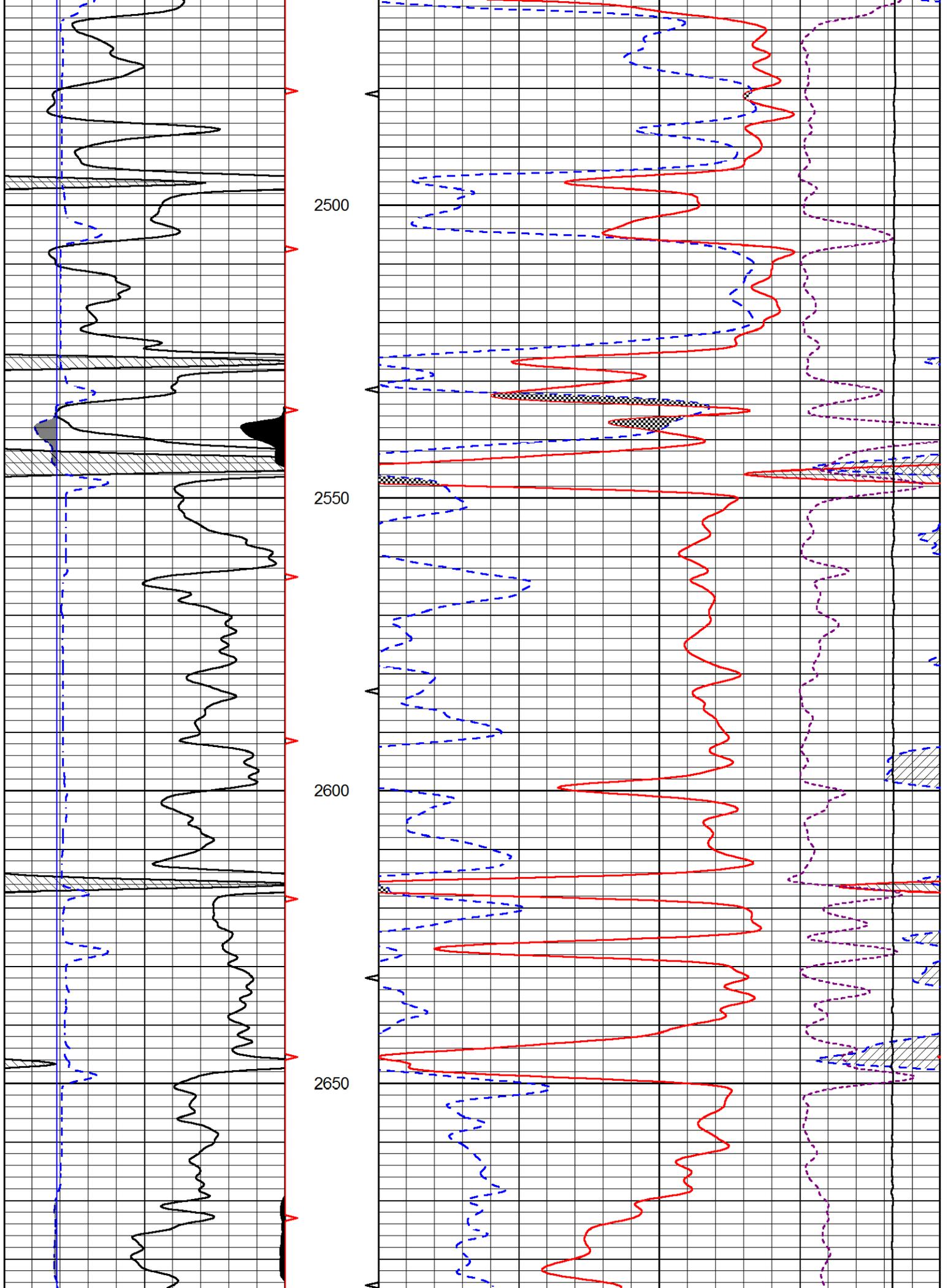


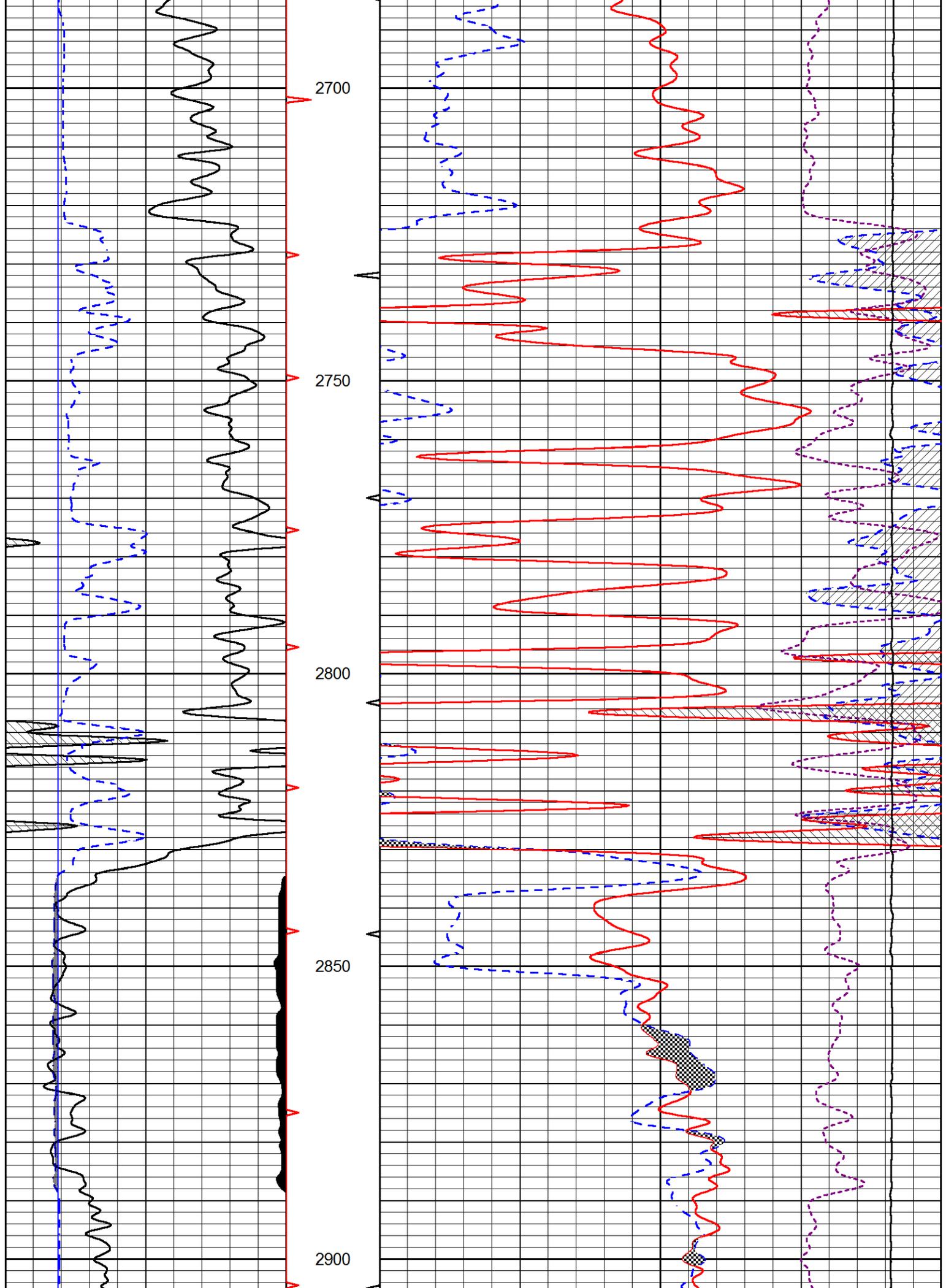


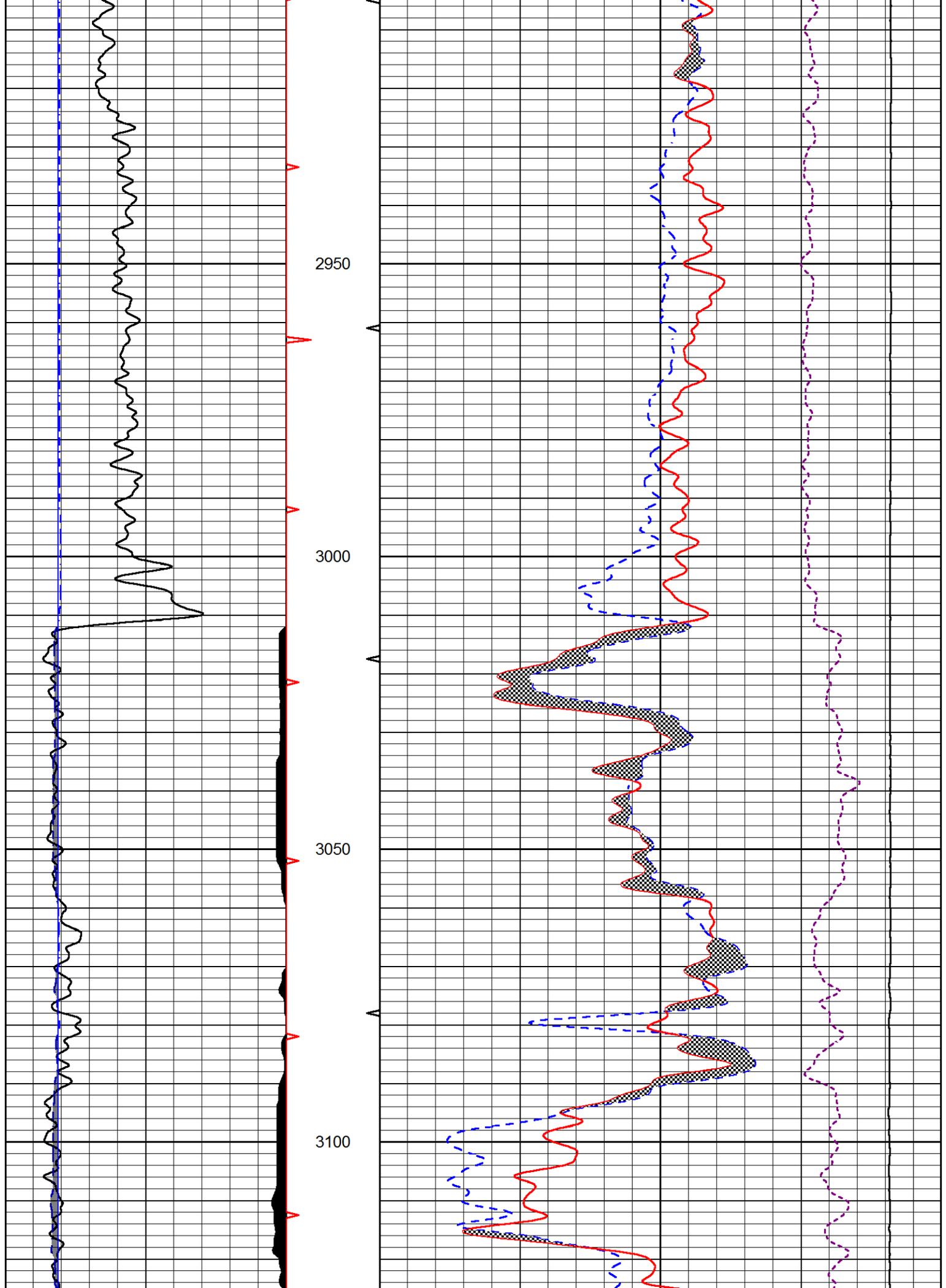


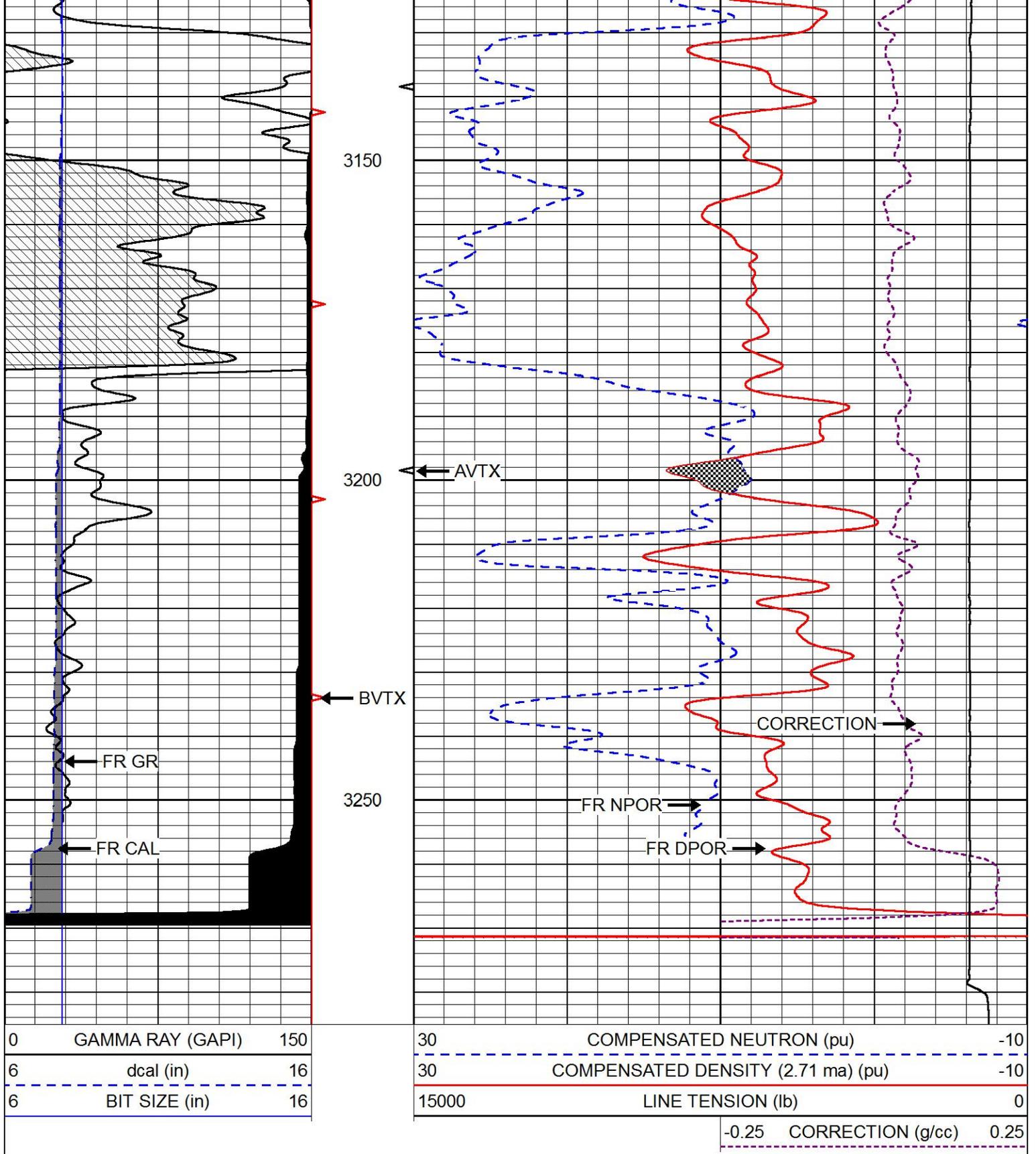












# REPEAT SECTION

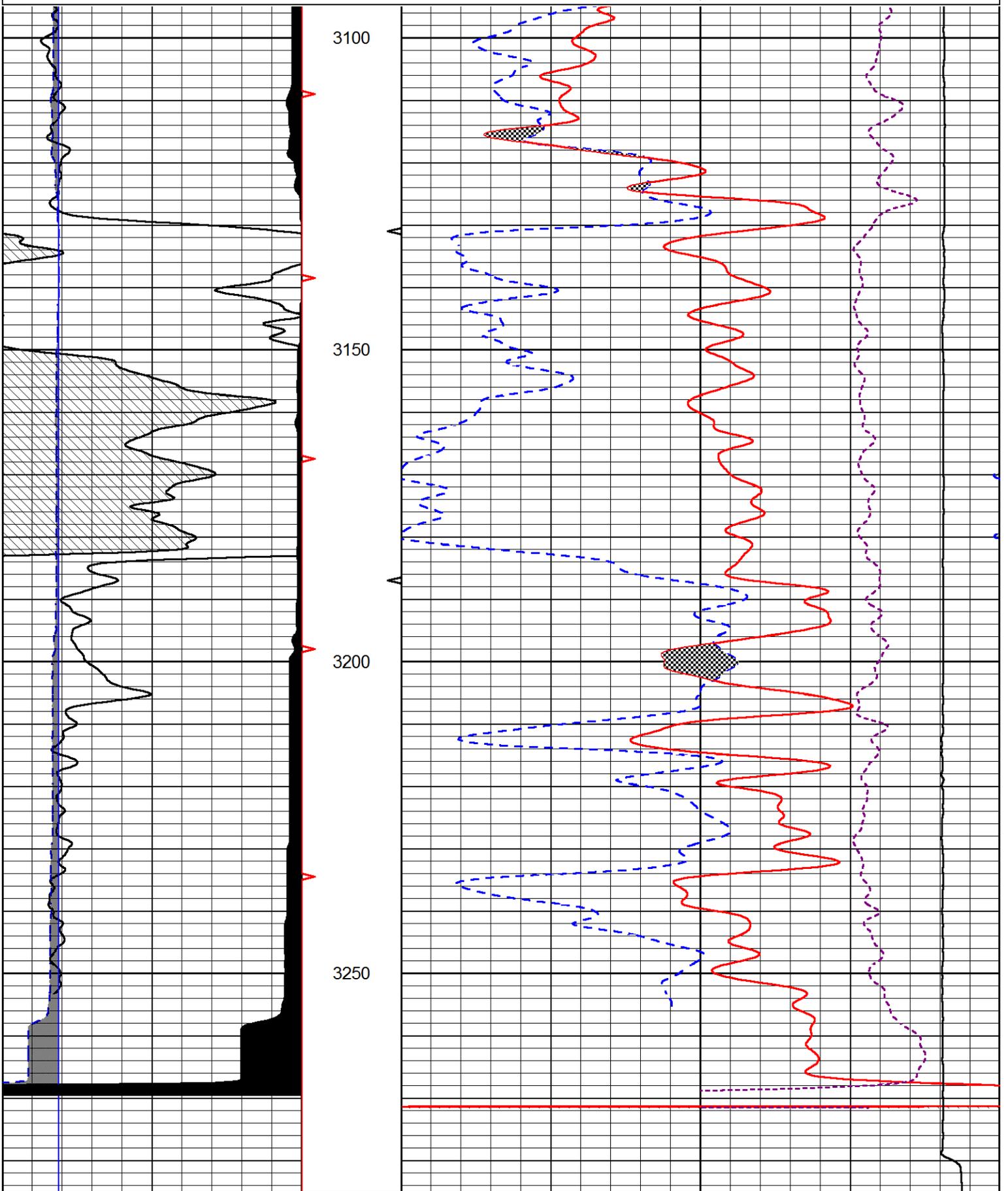
Database File murfin\_youngmeyer\_a\_1\_14.db  
 Dataset Pathname stack/pass2.1  
 Presentation Format cndlspec  
 Dataset Creation Sun Jul 16 22:26:33 2017

Charted by

Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25



0	GAMMA RAY (GAPI)	150
---	------------------	-----

30	COMPENSATED NEUTRON (pu)	-10
----	--------------------------	-----

6	dcal (in)	16
6	BIT SIZE (in)	16

30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
	-0.25 CORRECTION (g/cc)	0.25

Calibration Report

Database File murfin\_youngmeyer\_a\_1\_14.db  
 Dataset Pathname stack/pass3.1  
 Dataset Creation Sun Jul 16 23:39:50 2017

Dual Induction Calibration Report

Serial-Model: PSI 216 HT-PSI HIGH TEMP  
 Calibration Performed: Wed Mar 15 09:55:13 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	Gain	Offset
Deep	75.411	495.929	4.000	250.000	mmho/m	0.620	-40.115
Medium	75.269	470.661	10.000	100.000	mmho/m	0.628	-22.133

Compensated Density Calibration Report

Serial-Model: 168-986-M&W  
 Source / Verifier: /  
 Master Calibration Performed: Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	Size		Reading		
Small Ring	4.00	in	1.03		
Large Ring	14.00	in	1.23		

Compensated Neutron Calibration Report

Serial Number: tk10-MW  
 Tool Model: M&W  
 Calibration Performed: Wed Nov 16 11:21:36 2016

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: 89-M&W  
 Tool Model: M&W  
 Calibration Performed: Tue Apr 11 16:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps



**PIONEER**

Pioneer Energy Services

Company	MURFIN DRILLING COMPANY, INC.
Well	YOUNGMEYER 'A' NO. 1-14
Field	WILDCAT
County	ELK
State	KANSAS