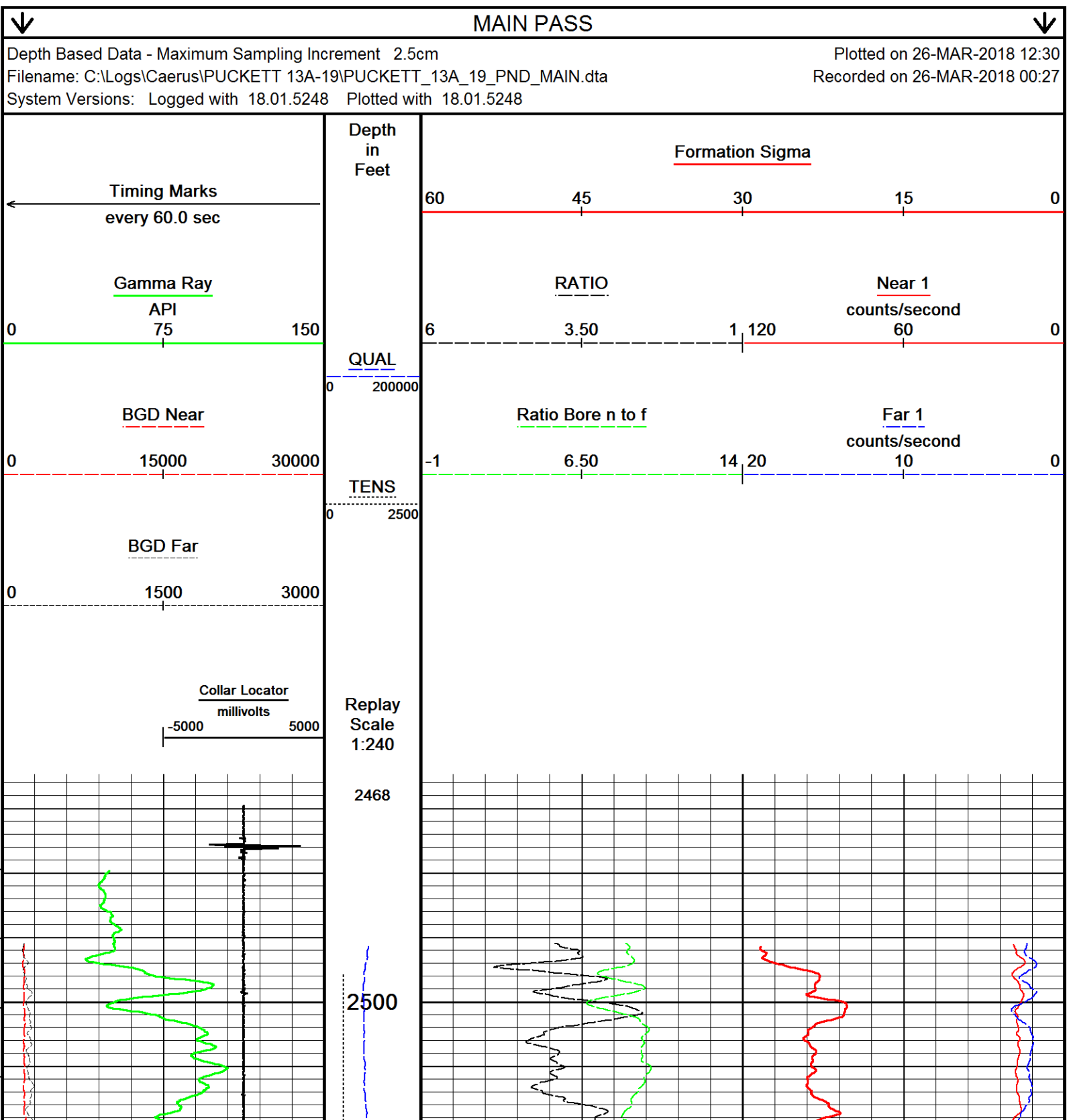
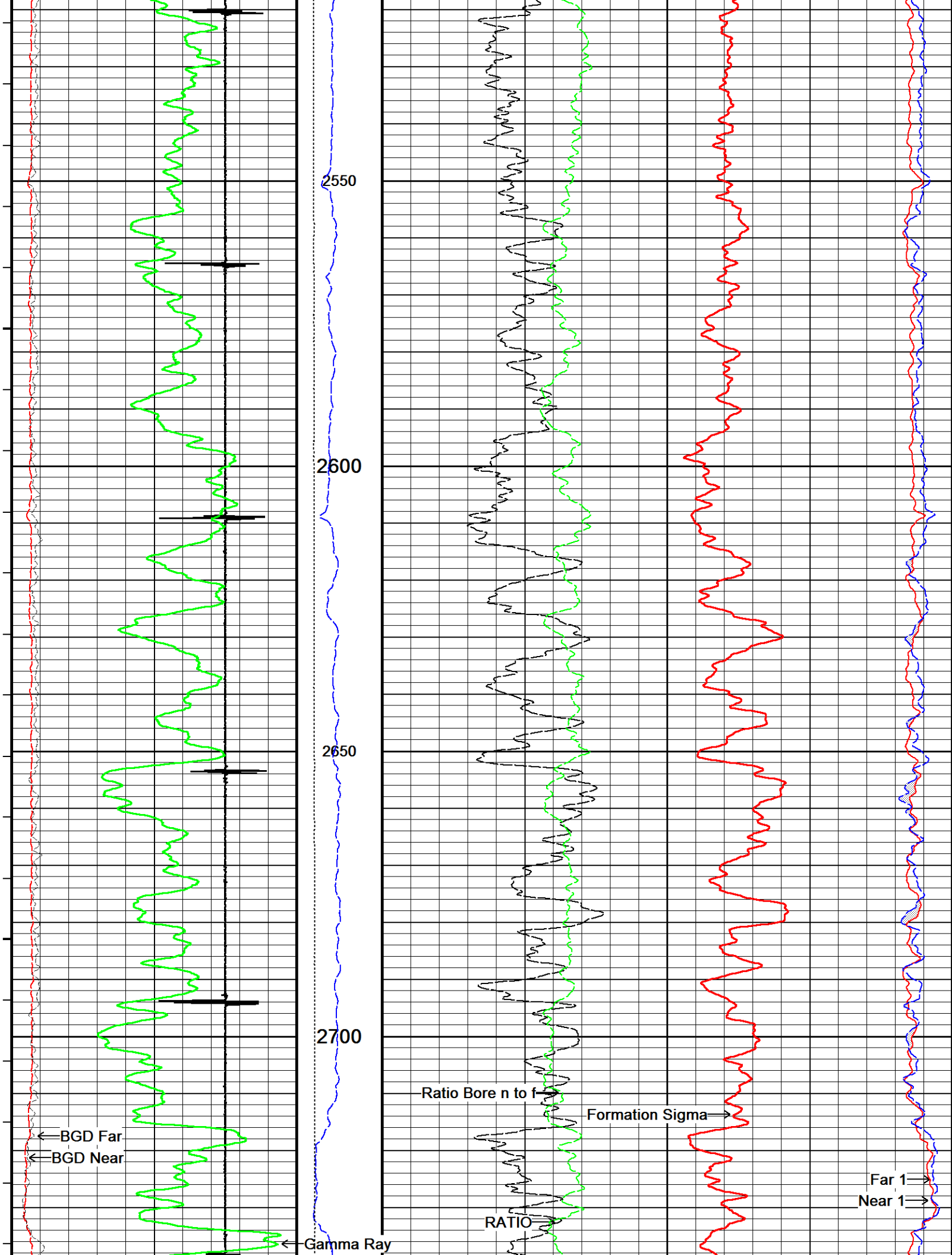
 <b>Weatherford®</b>				<b>PULSED NEUTRON LOG</b>			
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION				CAERUS OIL & GAS PUCKETT 13A-19 GRAND VALLEY GARFIELD USA / COLORADO			
SEC 19	TWP 6S	RGE 97W	Other Services CBL				
Latitude		Longitude		Permanent Datum GROUND LEVEL, Elevation 8151 feet Log Measured From KB, 30.00 feet above Permanent Datum Drilling Measured From KB			
API Number							
Date			26-MAR-2018		PERFORATION RECORD		
Run Number		ONE					
Service Order		5133-209261102		Shot	Number	Depth From	Depth To
Type Log				Density	of Shots	feet	feet
Depth Driller		9640.00					
Depth Logger		9560.00					
Top Log Interval		2500.00					
Bottom Log Interval		9560.00					
Hole Fluid Type		WATER					
Hole Fluid Level							
Restriction ID		3.875		Gun Type			
Max Recorded Temp				Gun Size			
Well Head Pressure		0.00		CASING / TUBING RECORD			
Well Head Equipment		N/A		Size	Weight	Depth From	Depth To
Time Well Ready		ROA		inches	pounds/ft	feet	feet
Time Logger Bottom		0030		9.625	36.00	0.00	2501.00
Unit		14115		4.500	11.60	0.00	9617.00
Equipment Name		WSS-E					
Base		CASPER					
Recorded By		P. MAZUR					
Witnessed By		R. TOMPKINS					

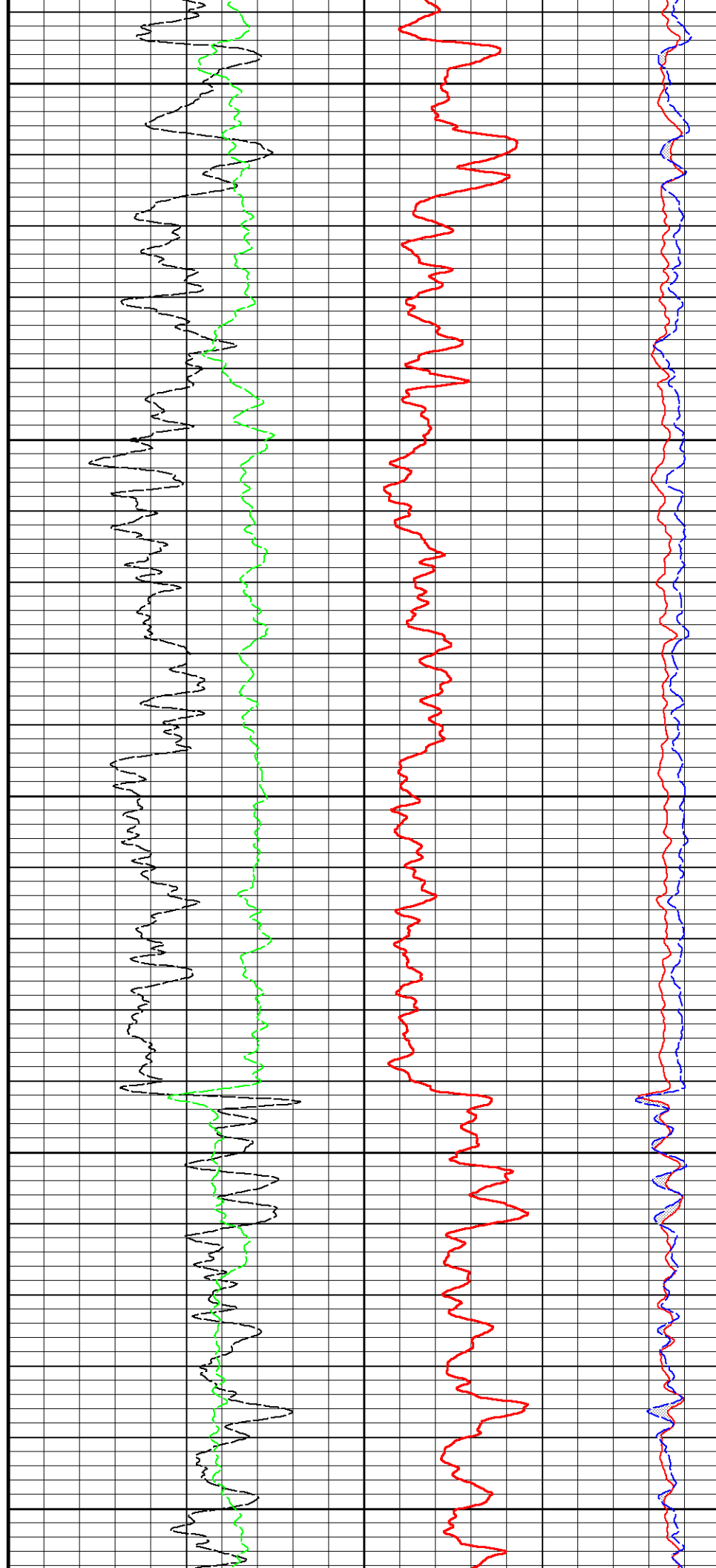
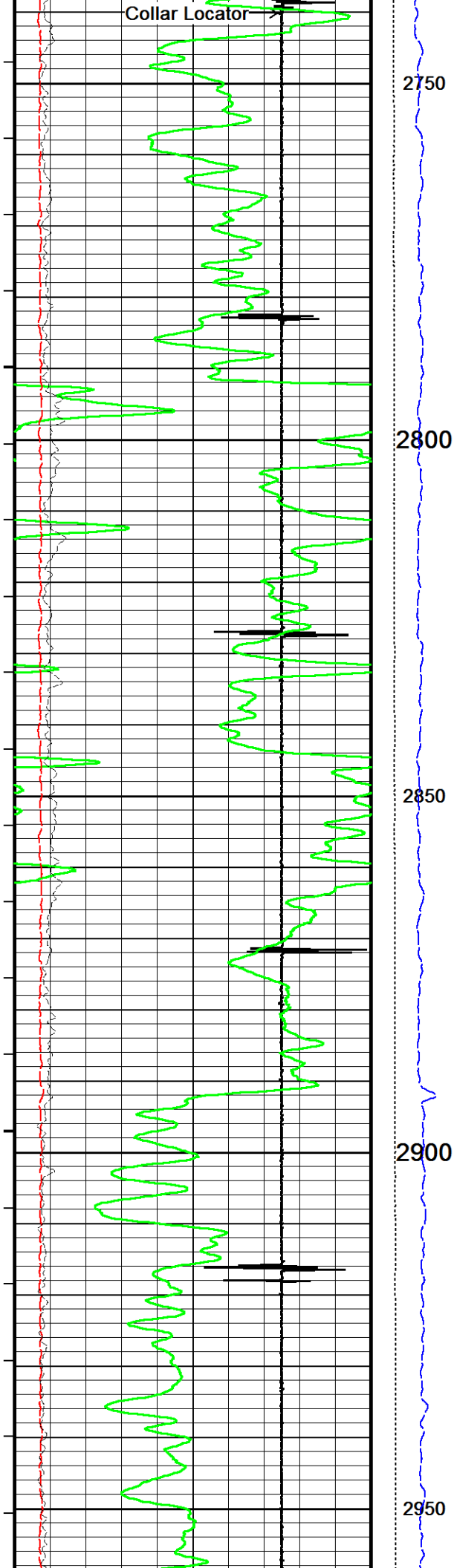
BOREHOLE RECORD						Last Edited: 26-MAR-2018 12:21
Bit Size inches		Depth From feet		Depth To feet		
14.750		0.00		2550.00		
7.875		2550.00		9640.00		
CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	J-55		9.625	0.00	2501.00	36.00
PRODUCTION	P-110		4.500	0.00	9617.00	11.60

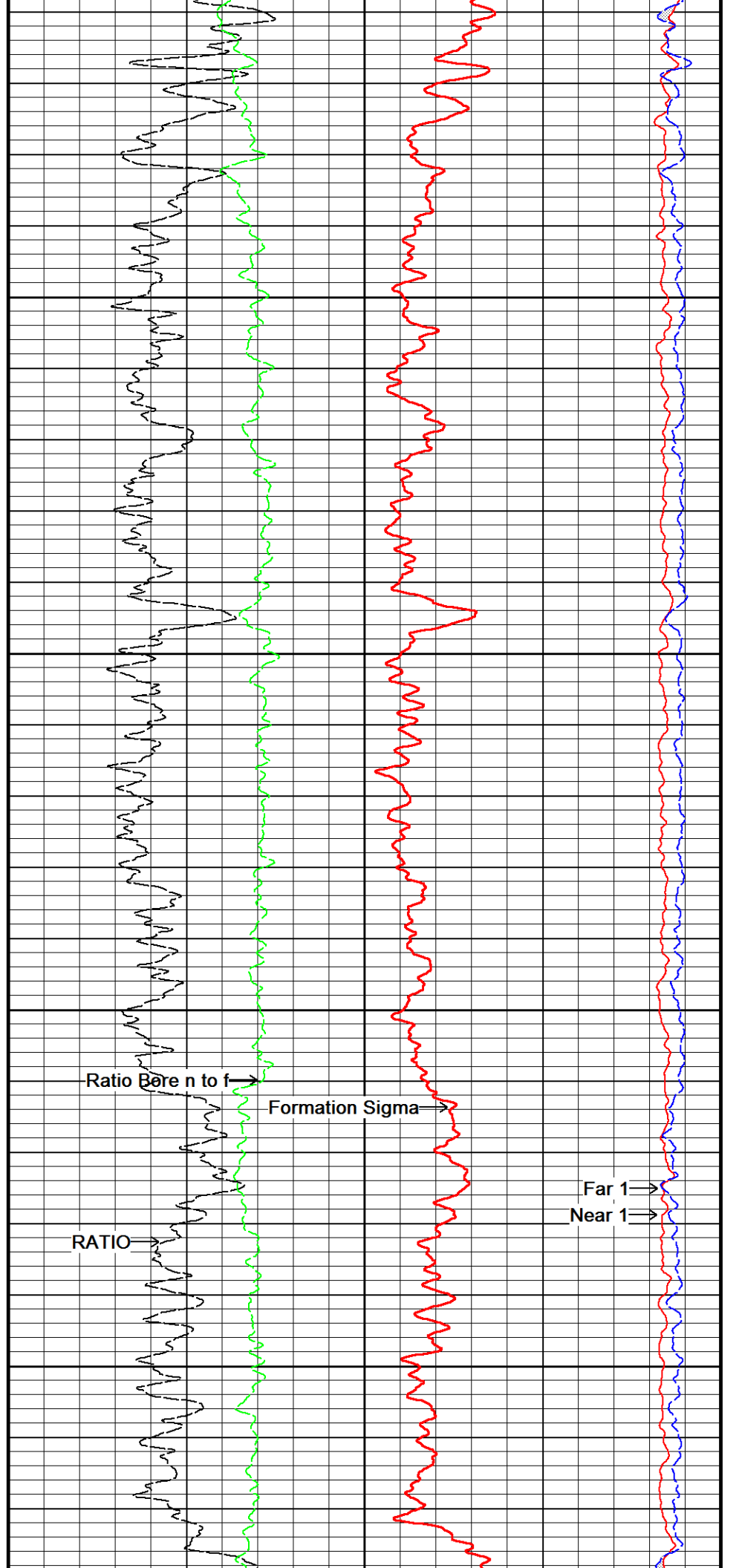
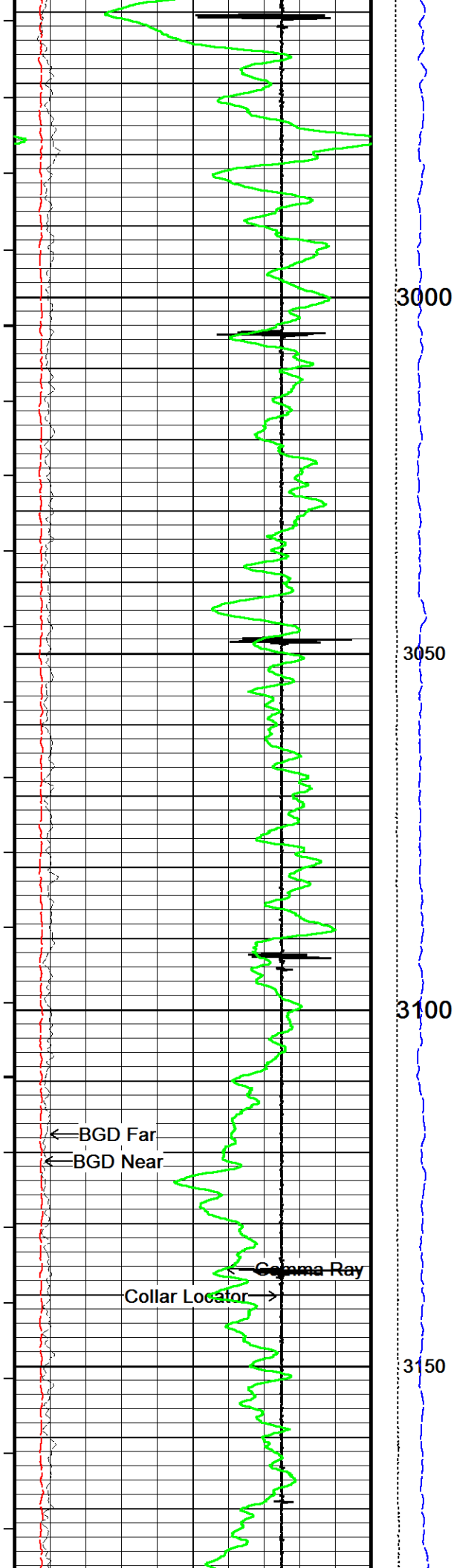
REMARKS
SOFTWARE VERSION 18.01.5248 - COMMERCIAL VERSION
ALL DEPTH CONTROL PROCEDURES FOR SUBSEQUENT RUN IN HOLE WERE FOLLOWED. LOG WAS RUN FROM 30' K.B.
SHORT JOINT LOCATED AT 6904' - 6914'
SURFACE SYSTEM USED: WCM-D 160
TOOLS RUN: CCPC, PNEE, PDTS, PGNS WERE RAN IN COMBINATION
GAMMA RAY COUNTS ON SUBSEQUENT PASSES ARE AFFECTED BY RESIDUAL NEUTRON ACTIVATION CAUSED BY THE PREVIOUS PASS
CREW: PAUL MAZUR, MANNY MENDEZ, JEREMY STEWART

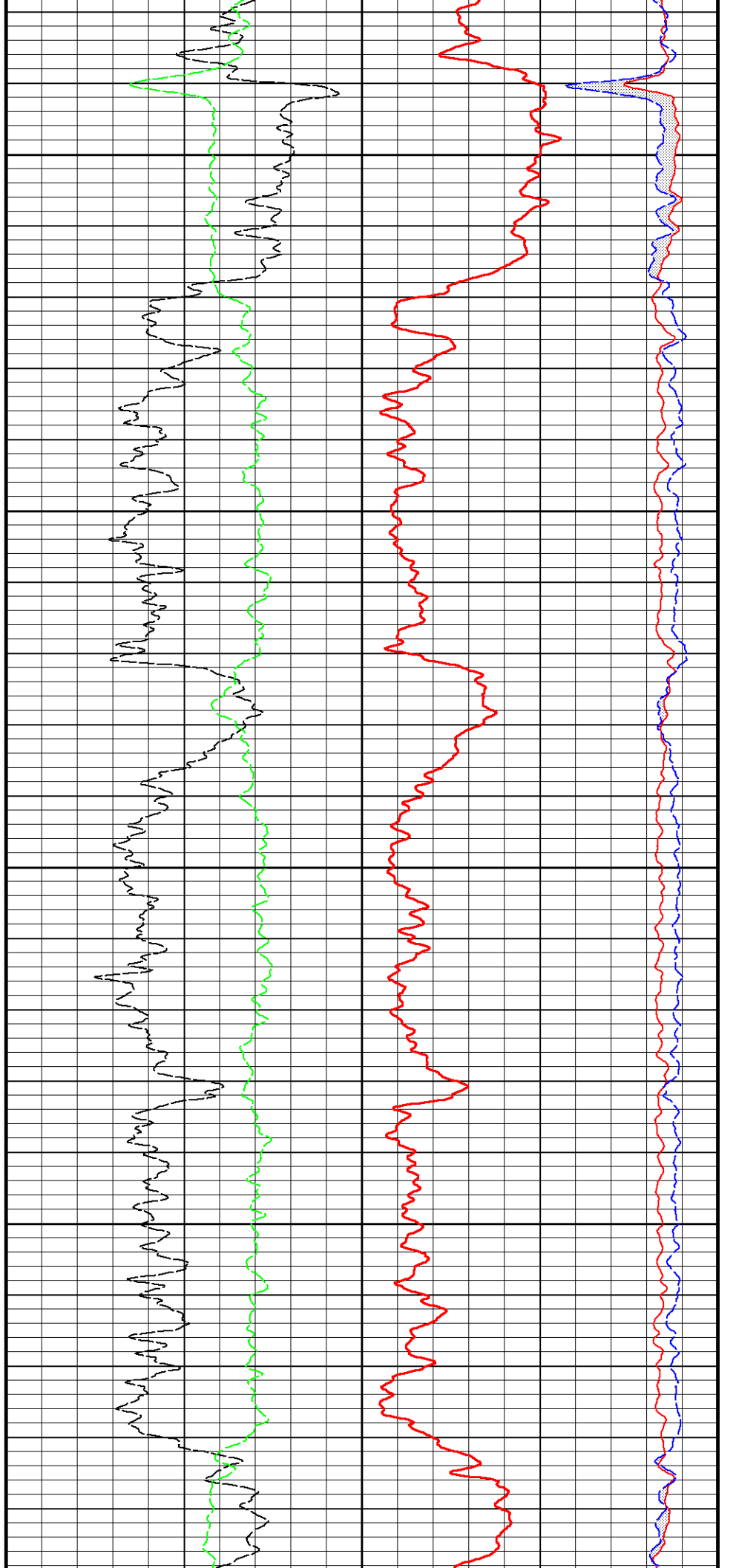
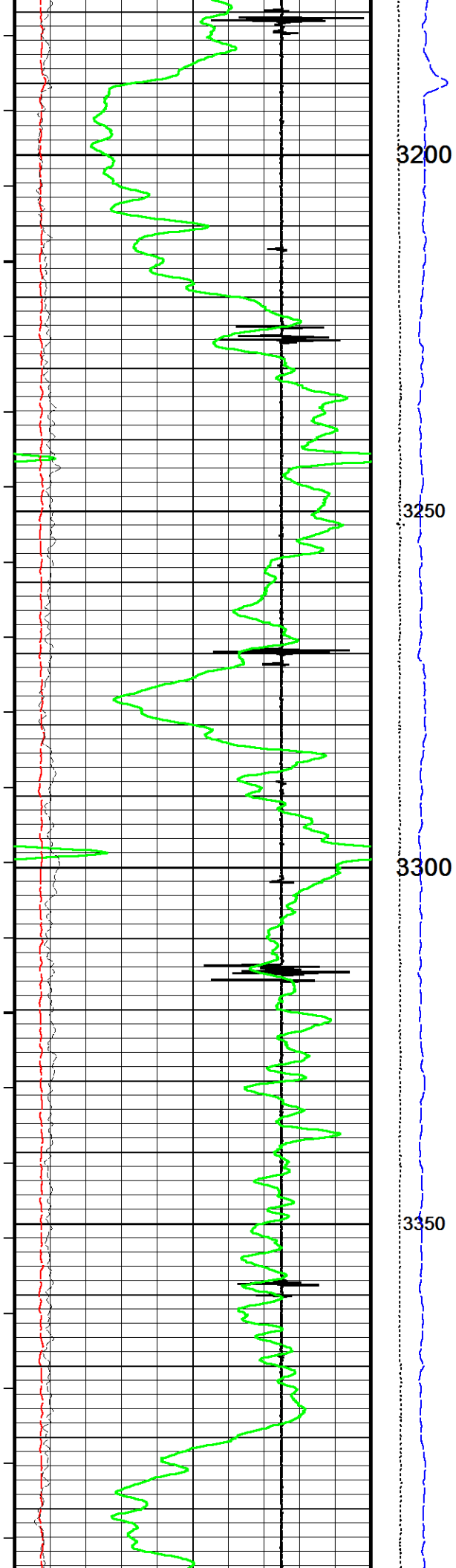
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

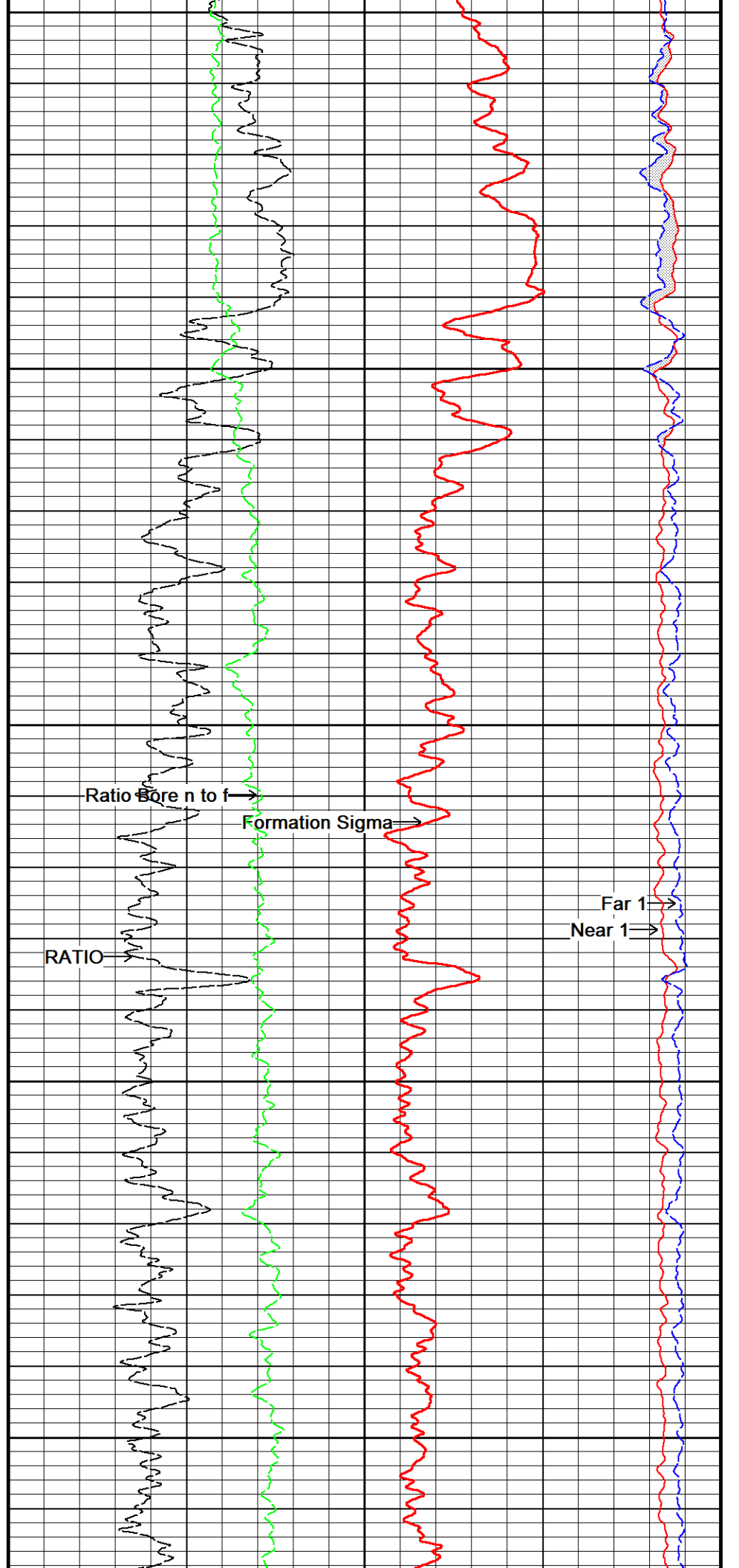
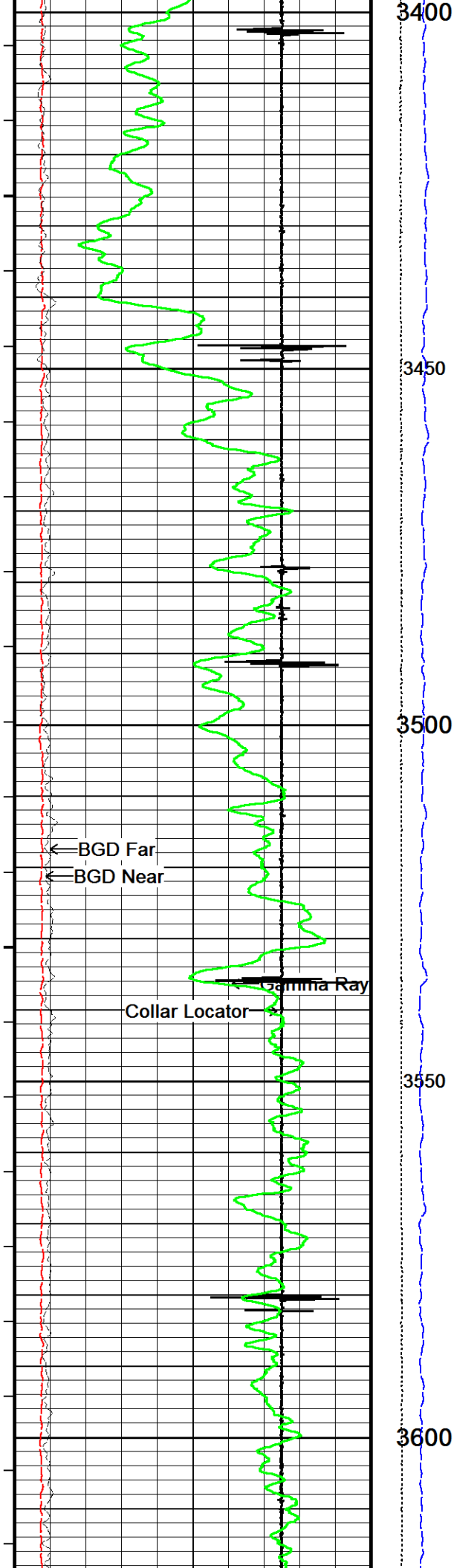




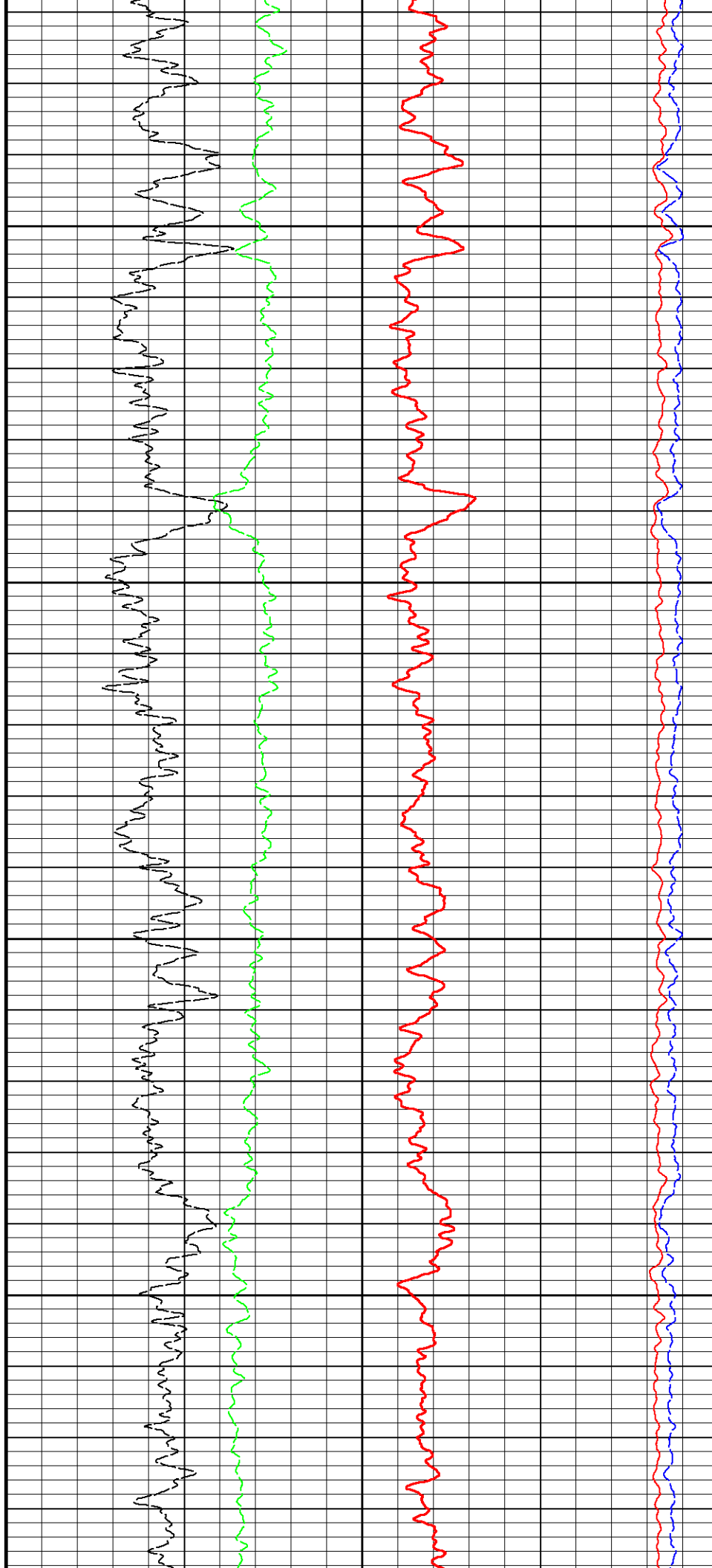
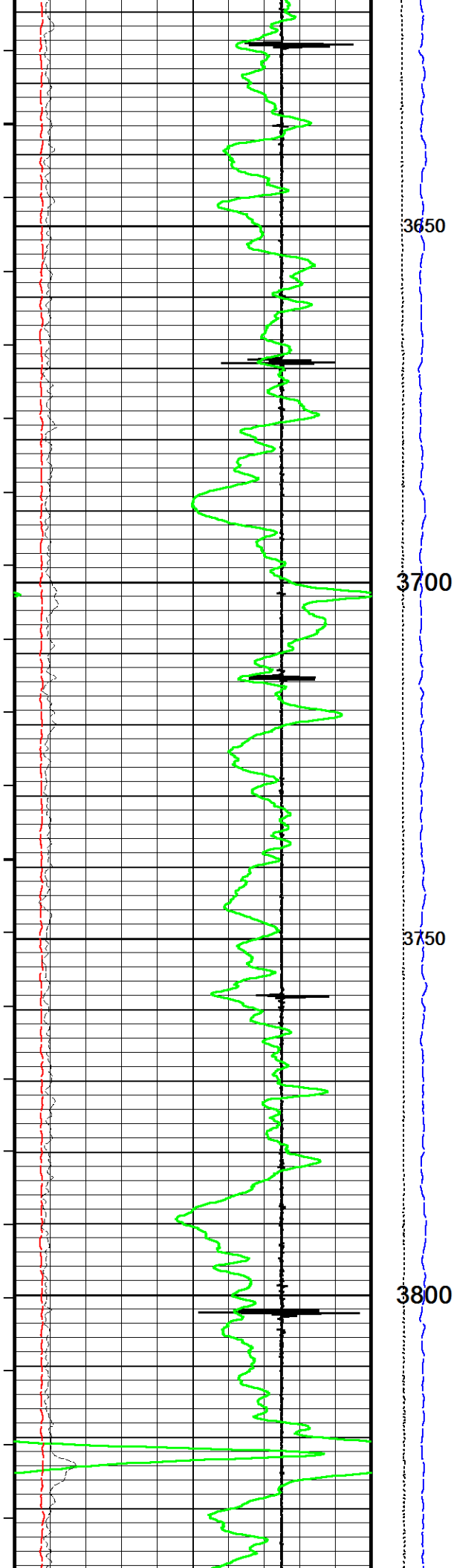




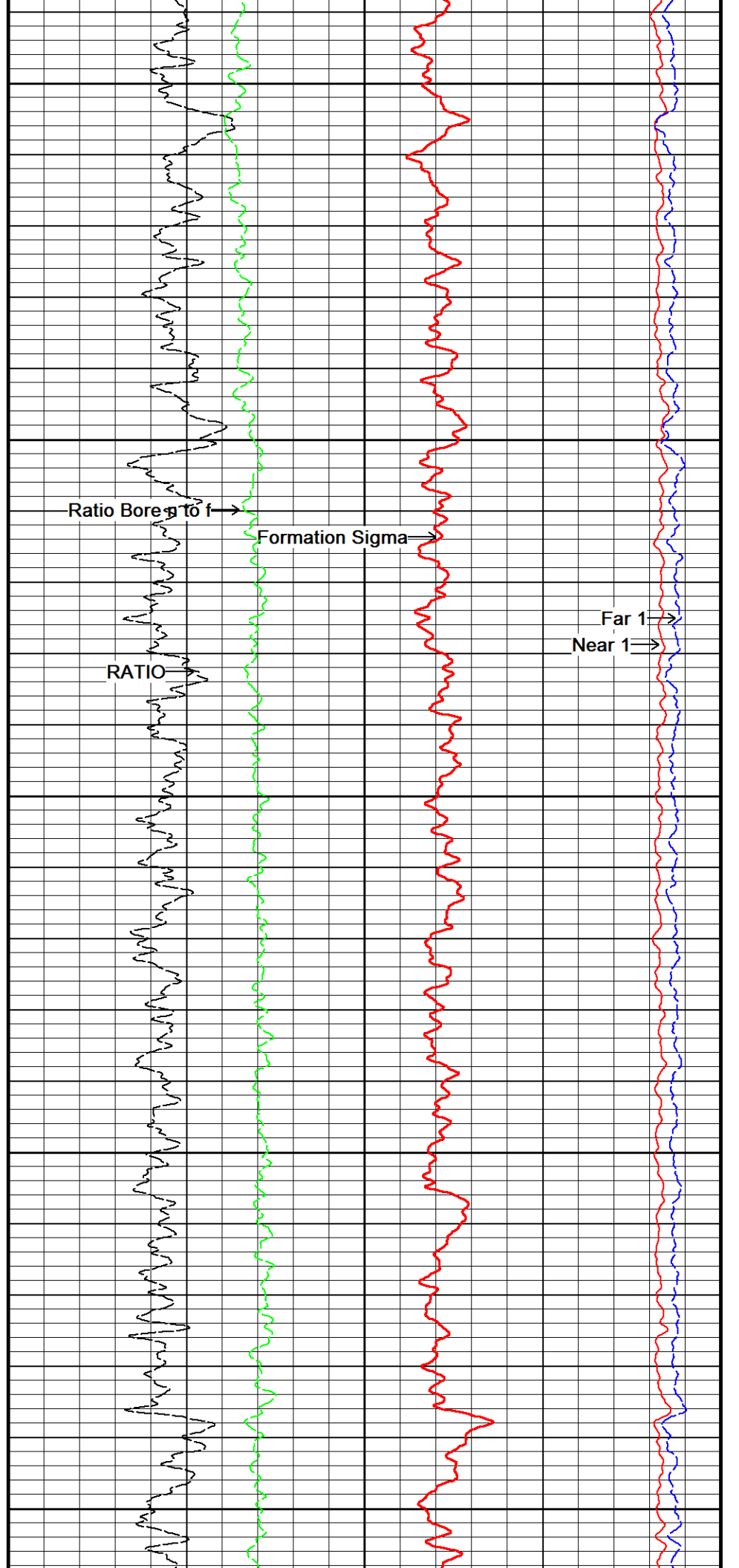
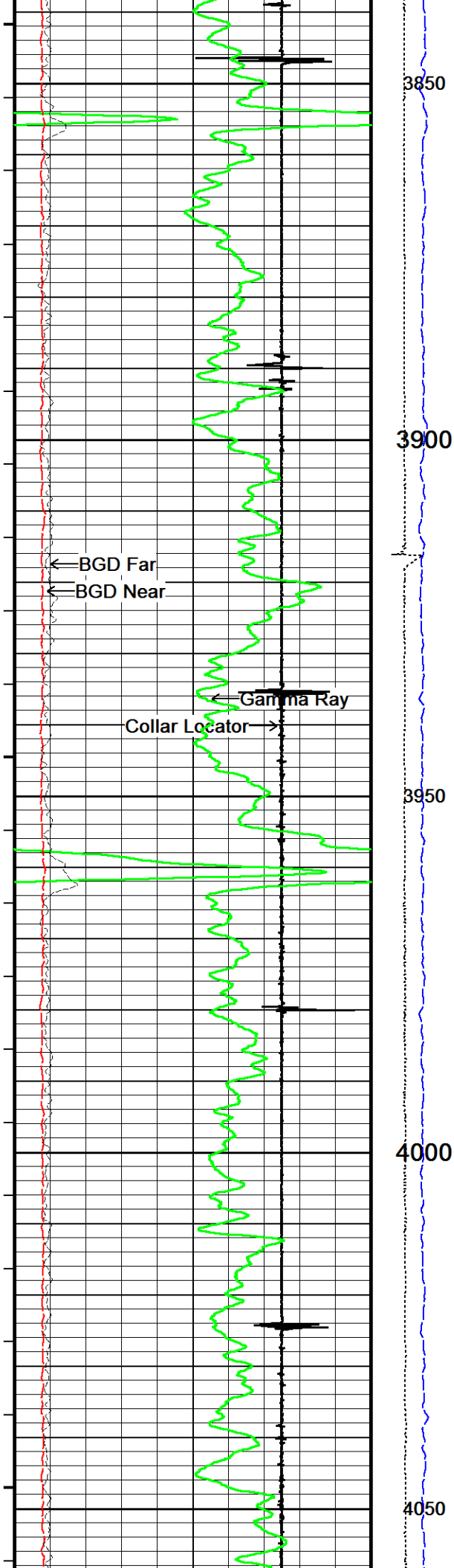


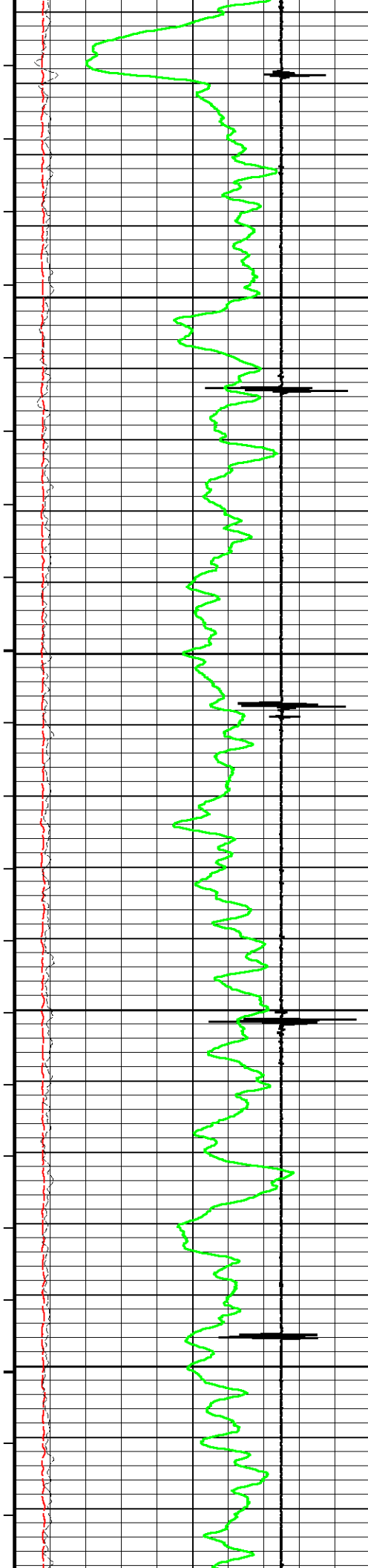










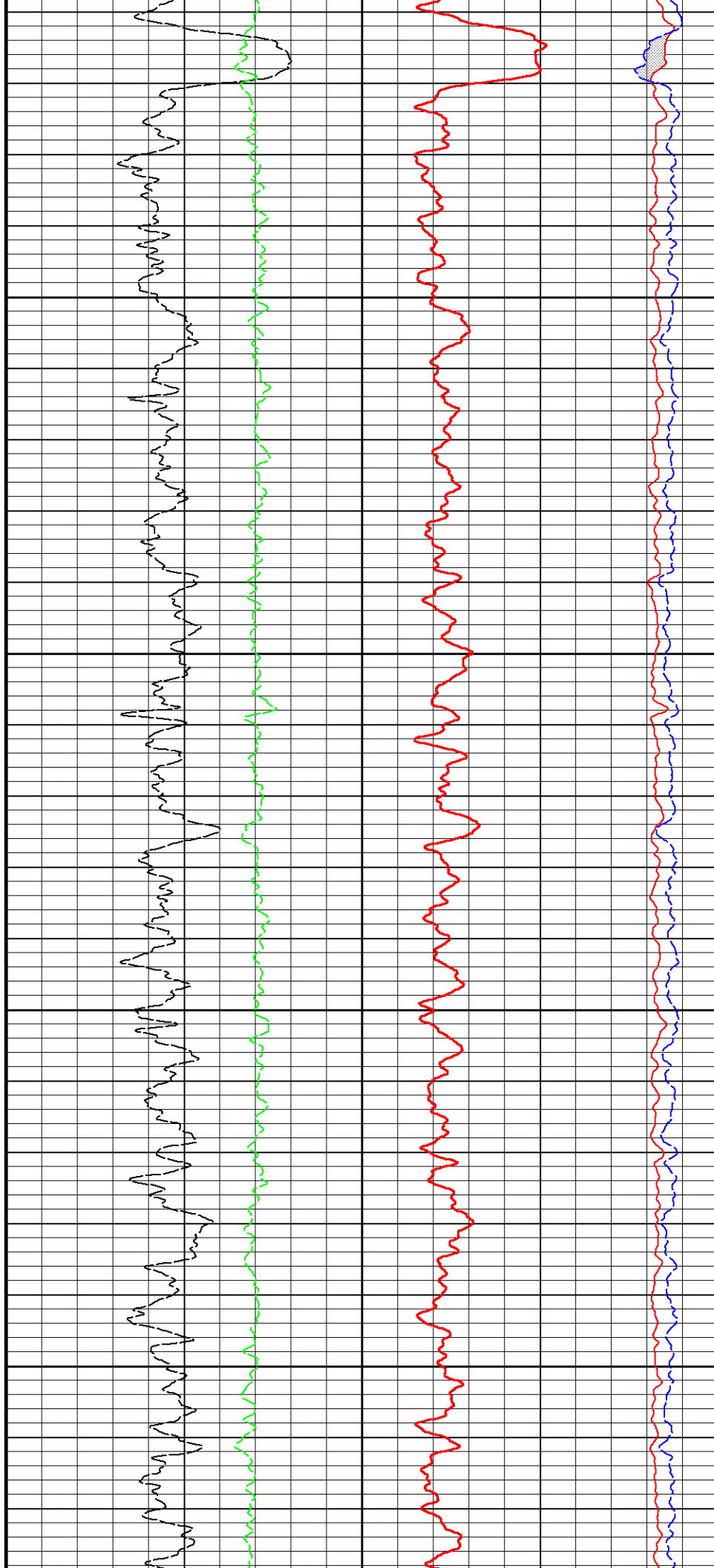


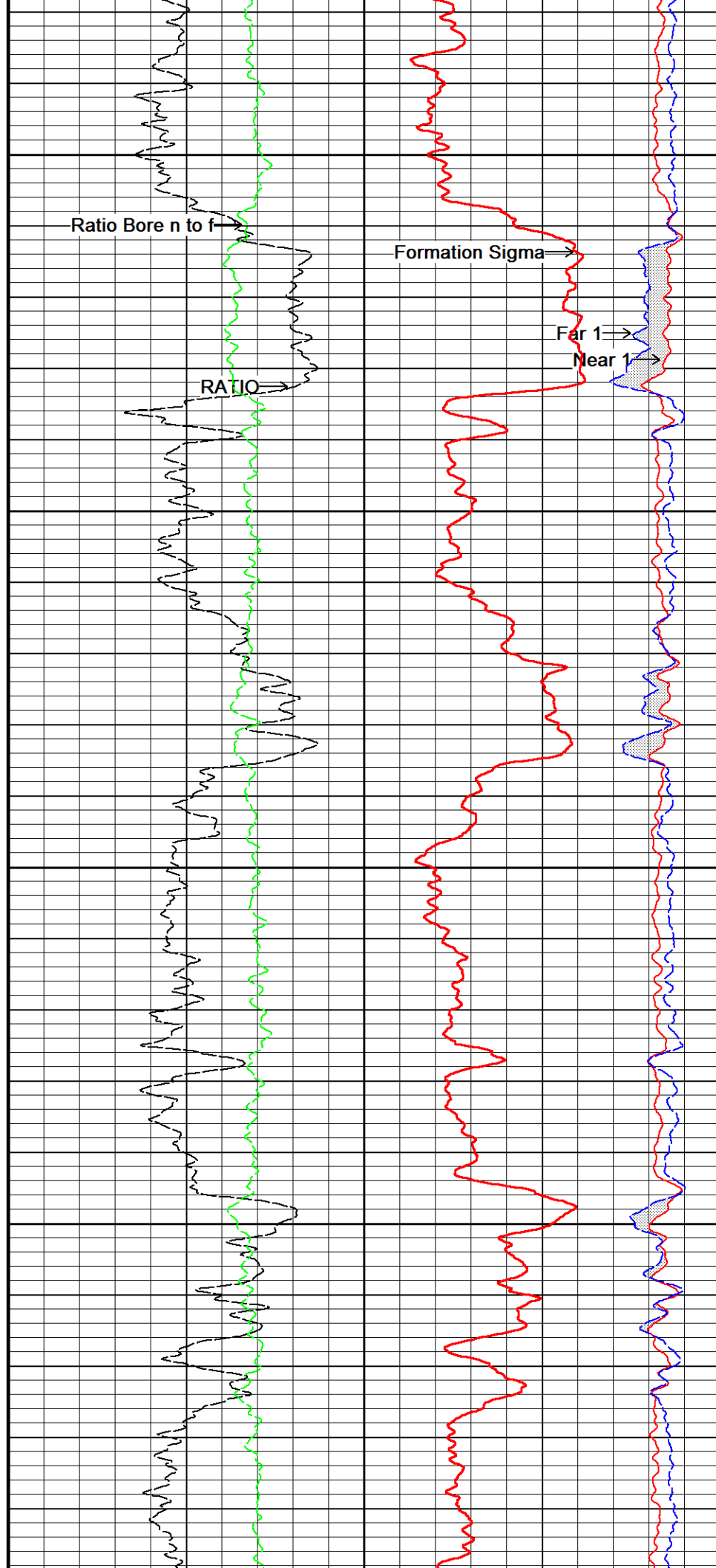
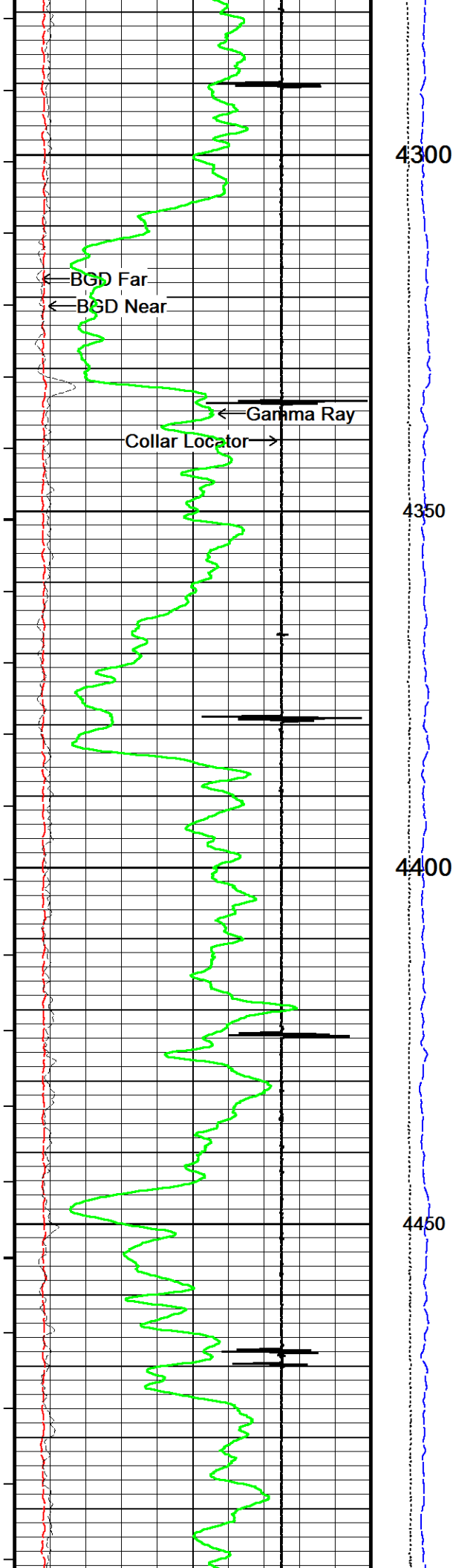
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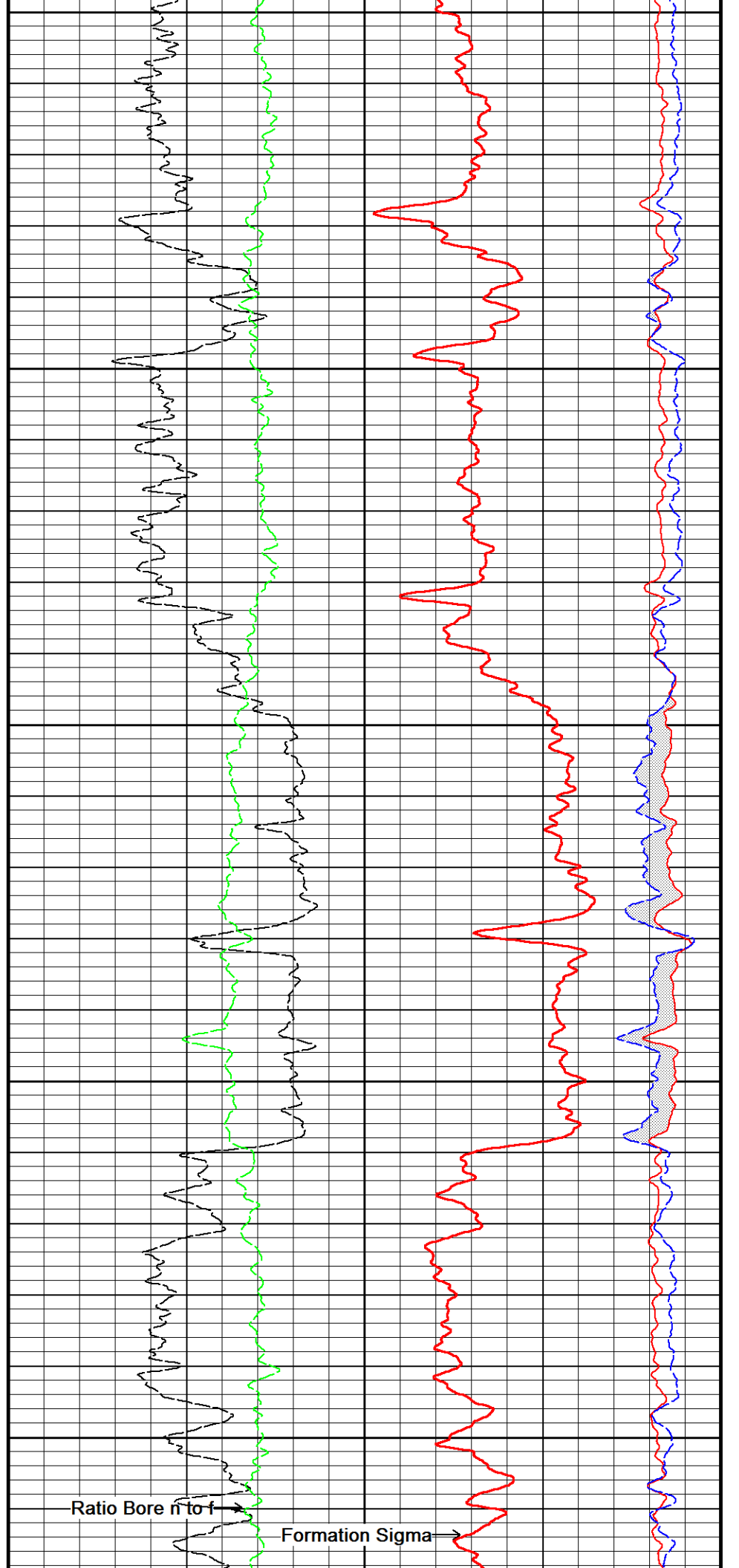
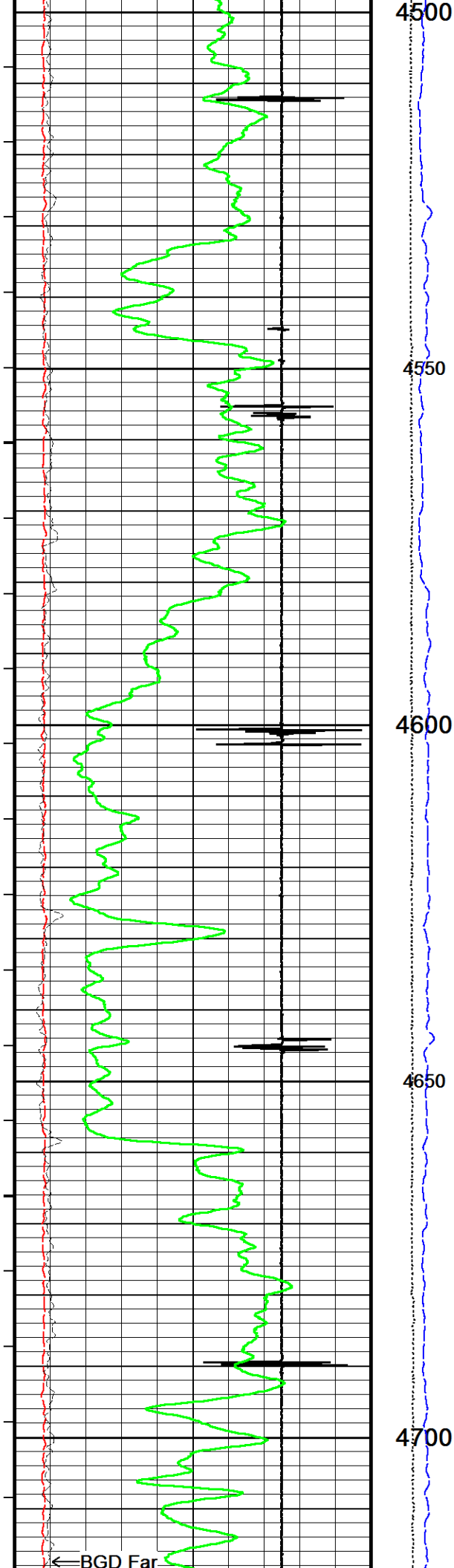
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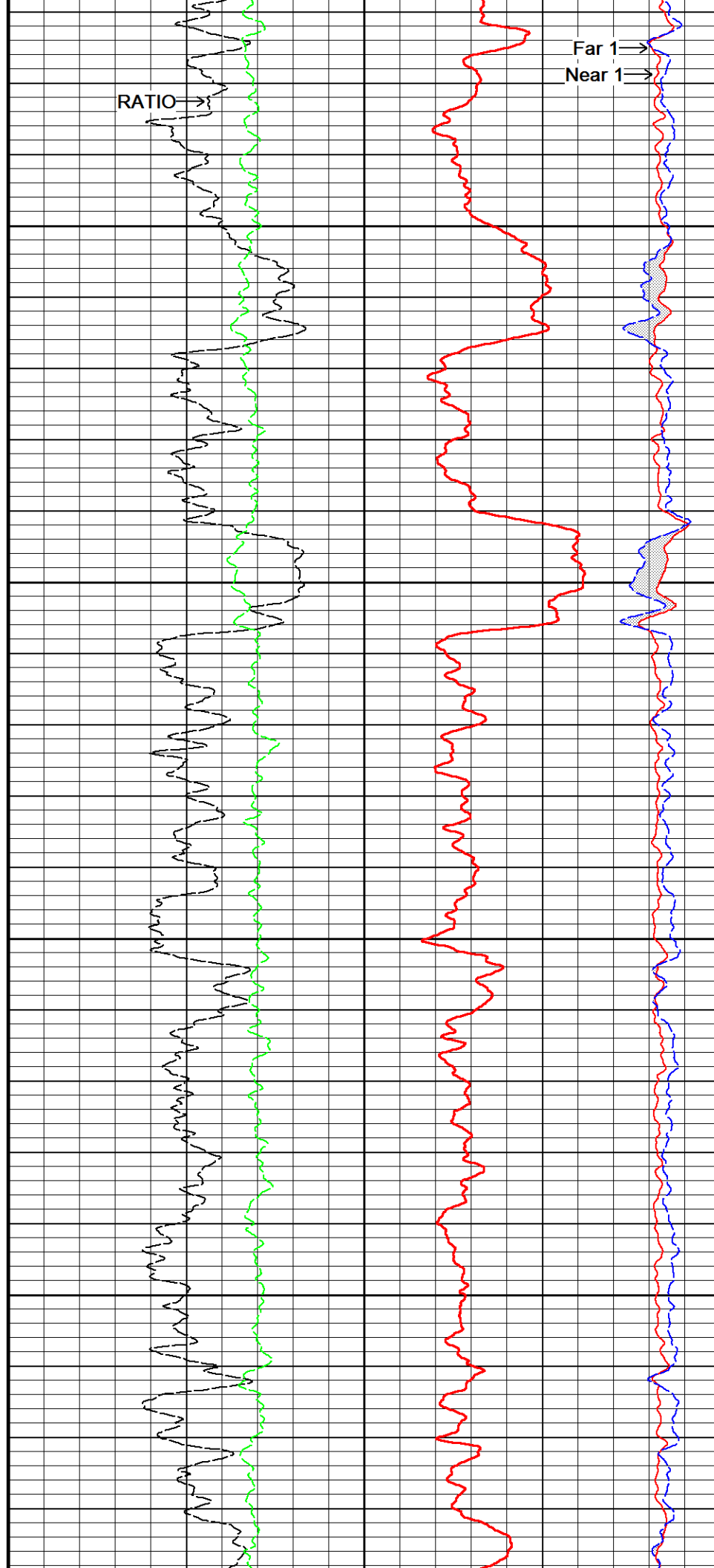
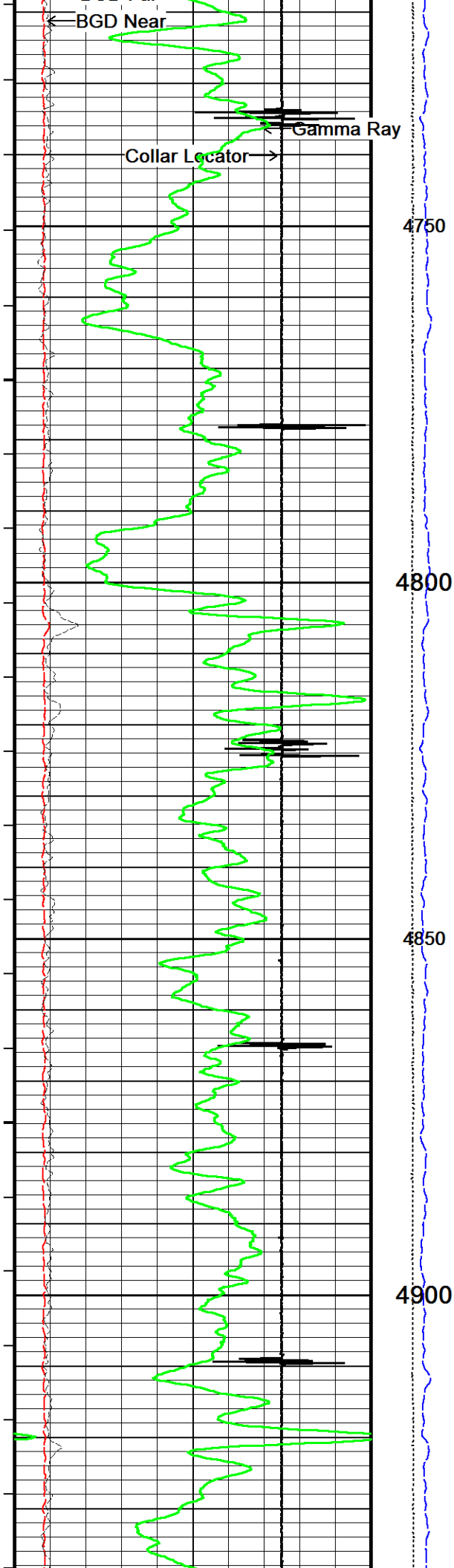
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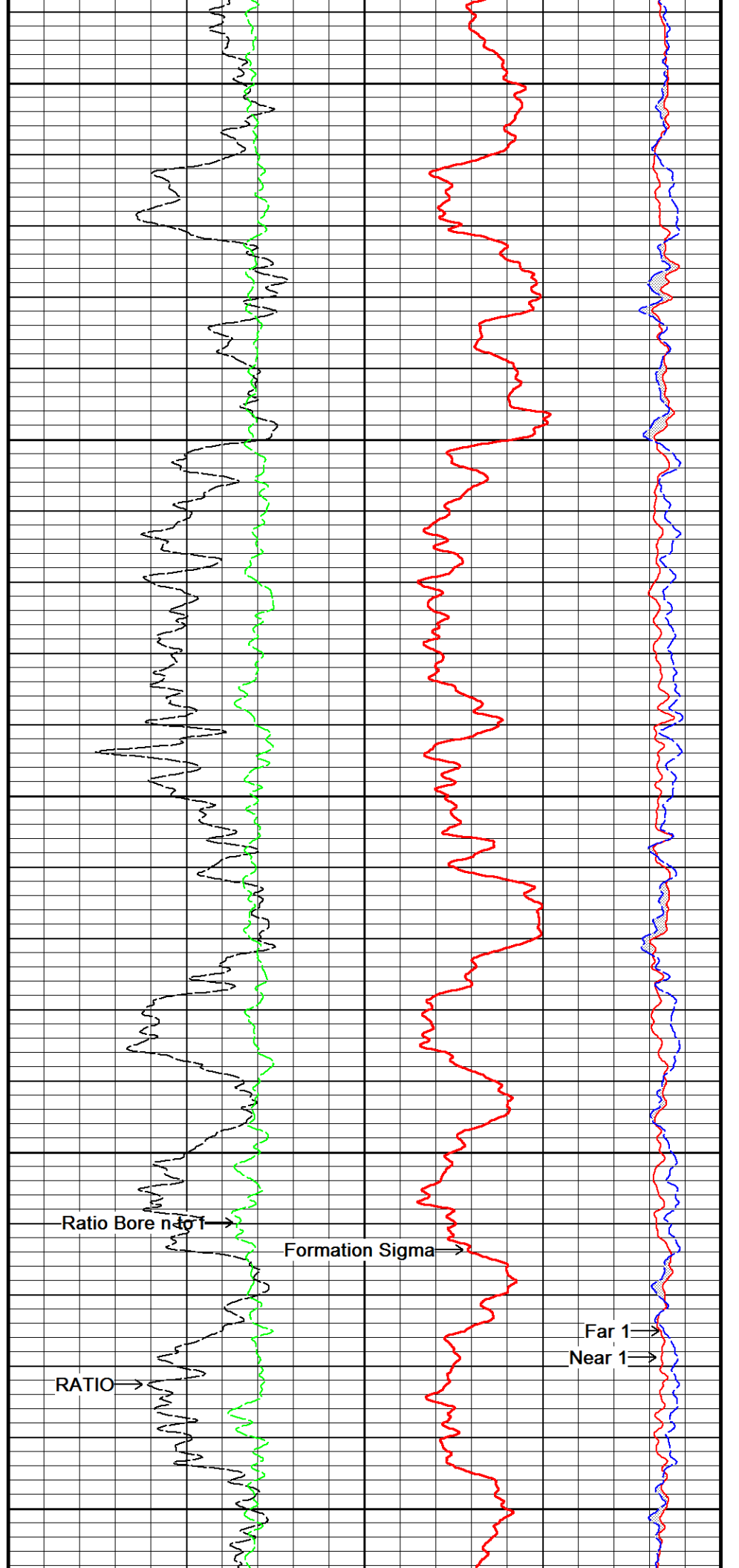
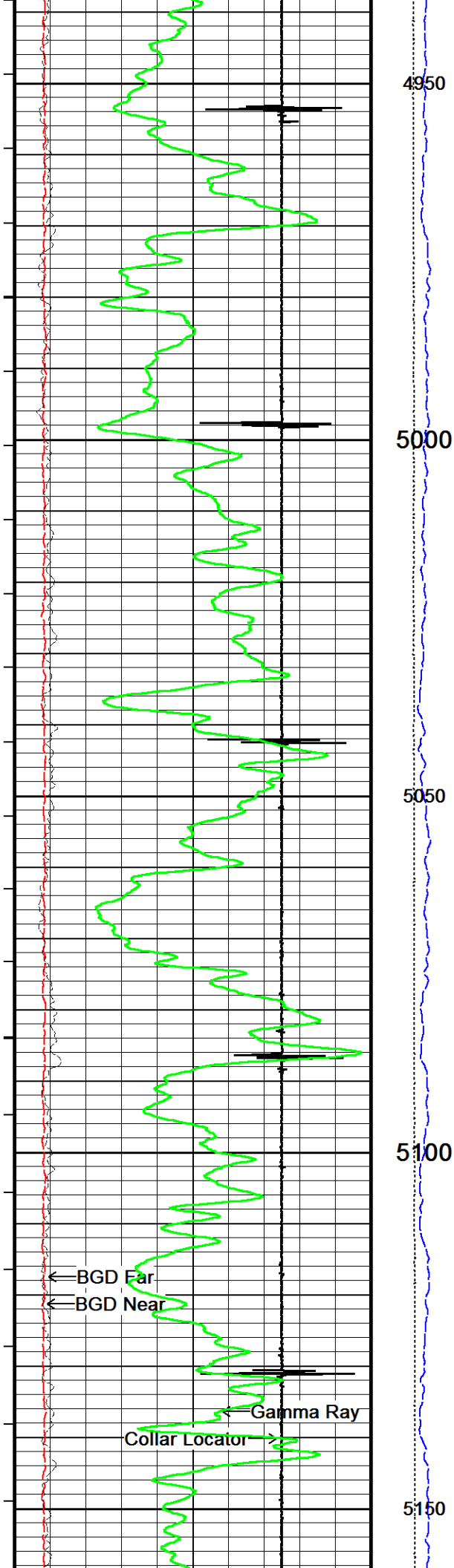
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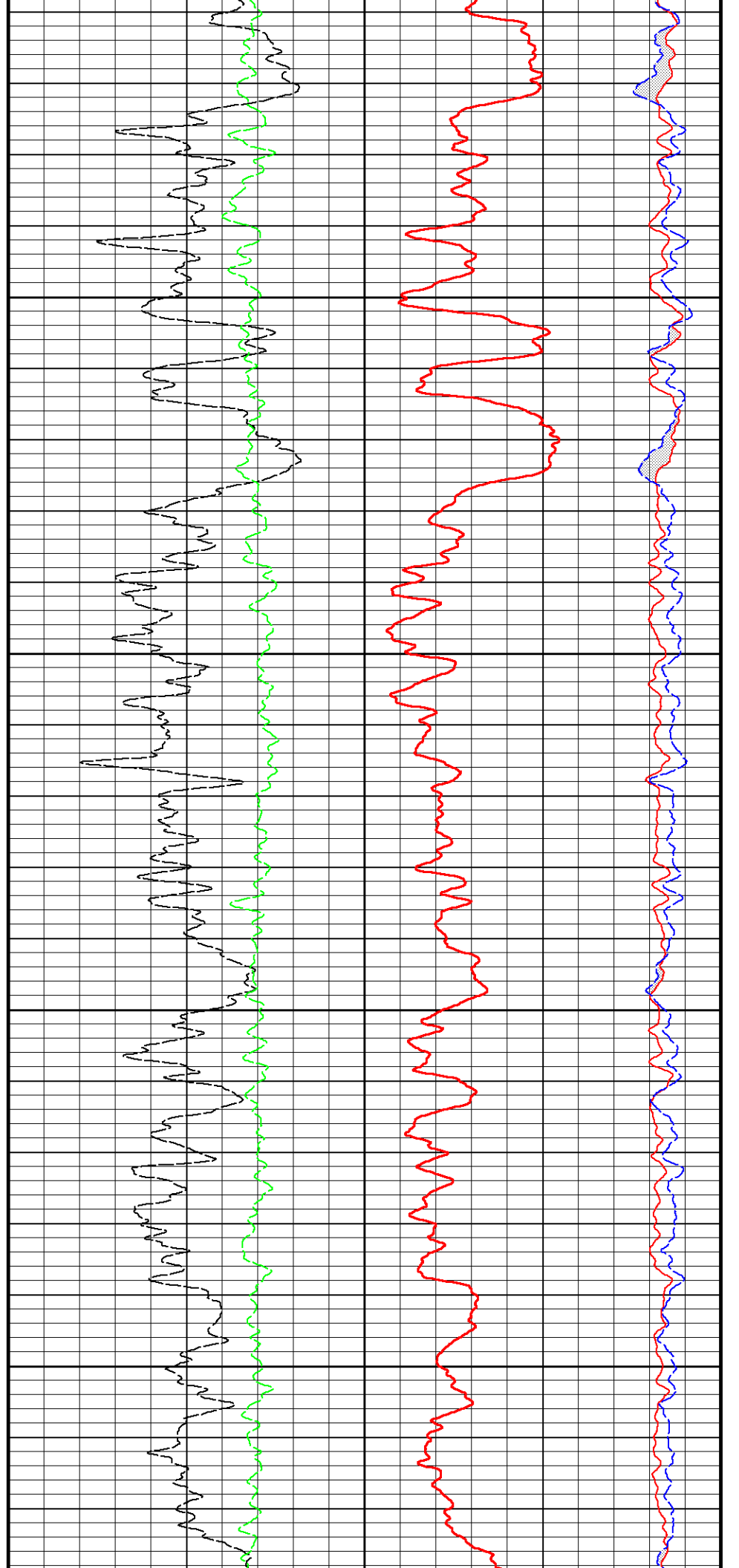
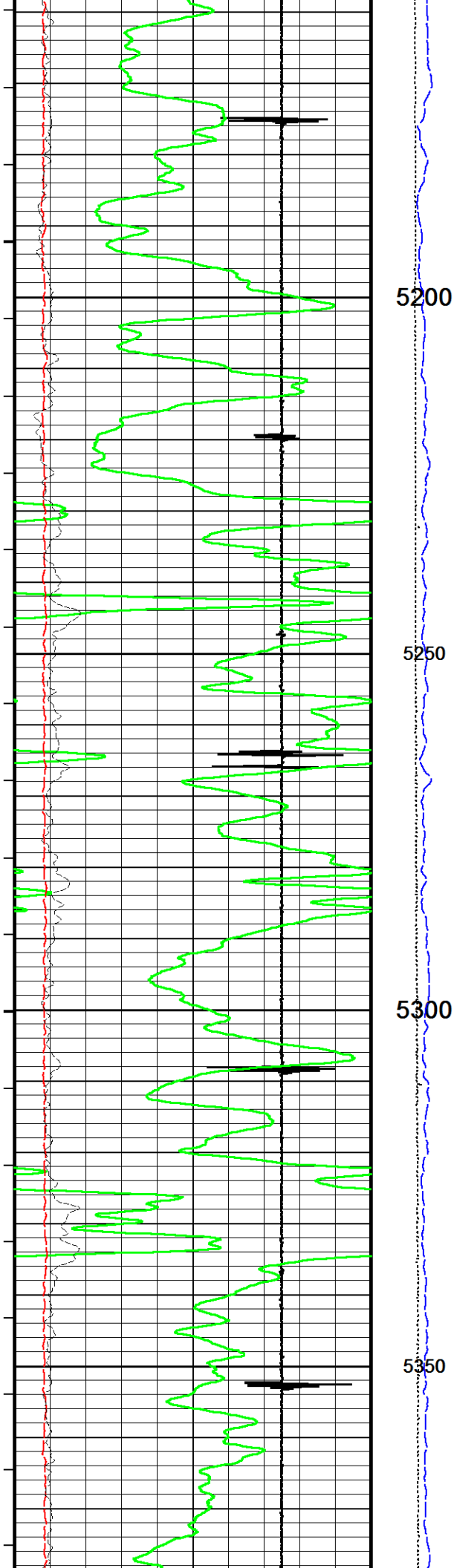




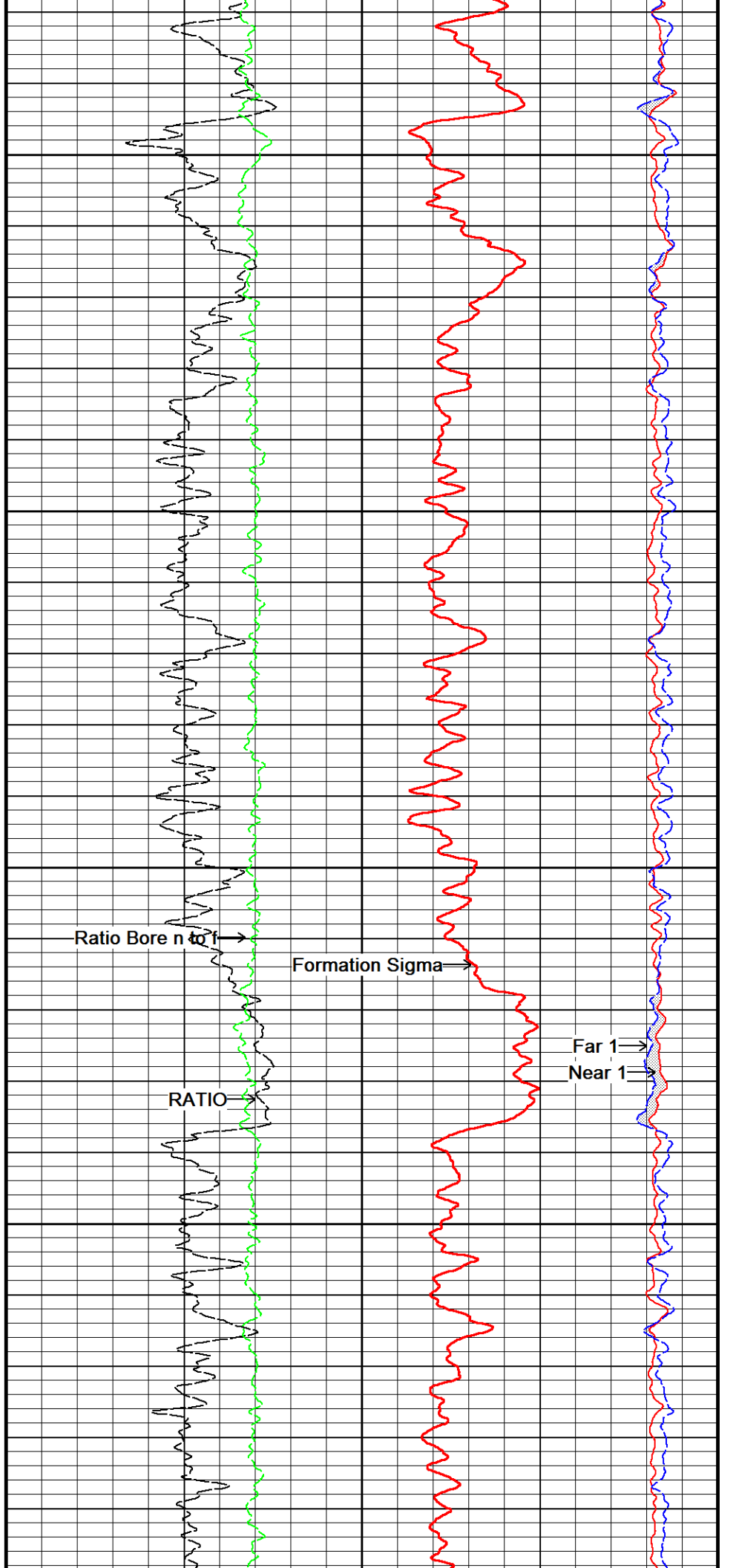
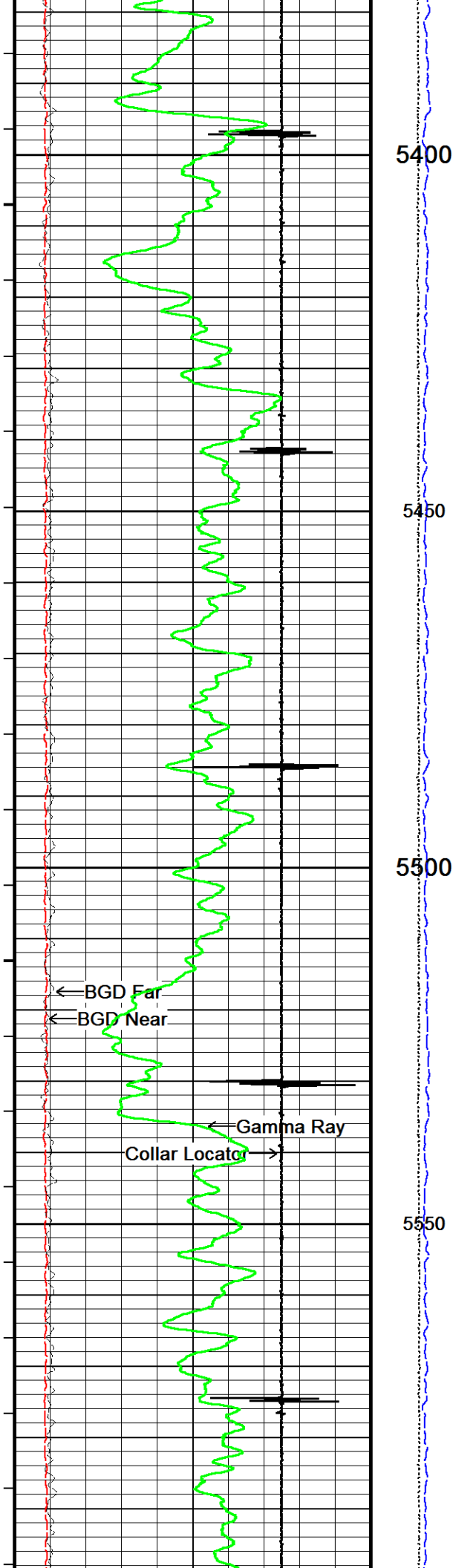


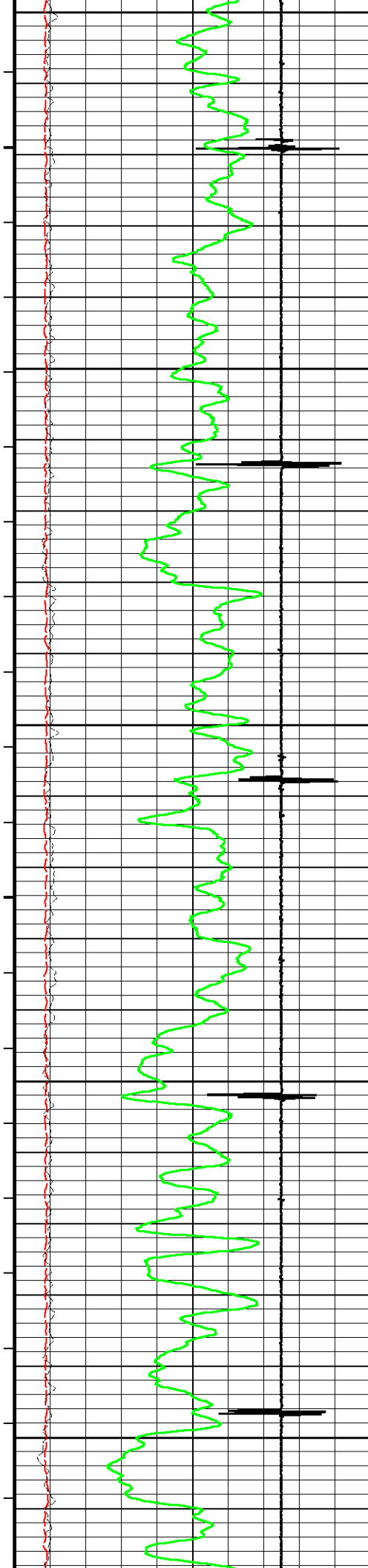




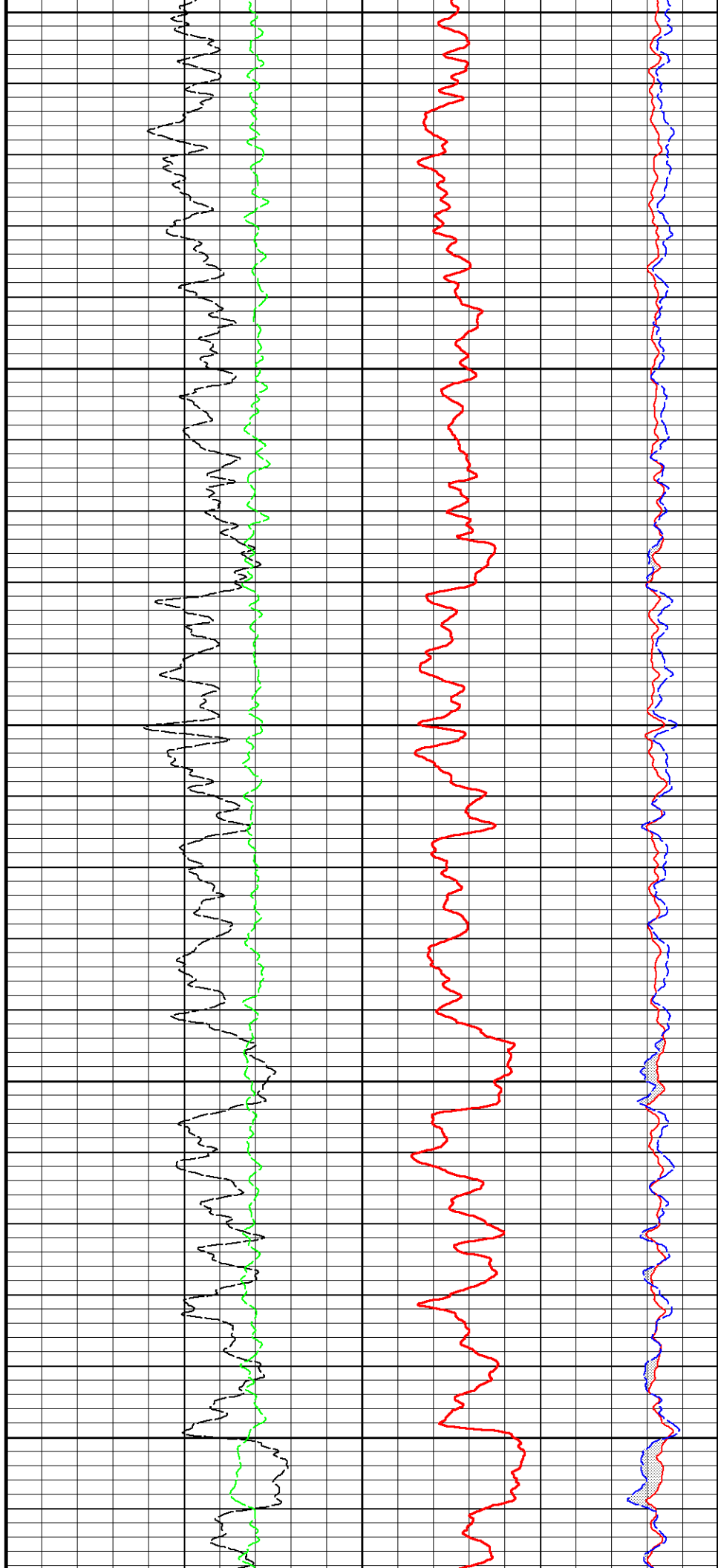


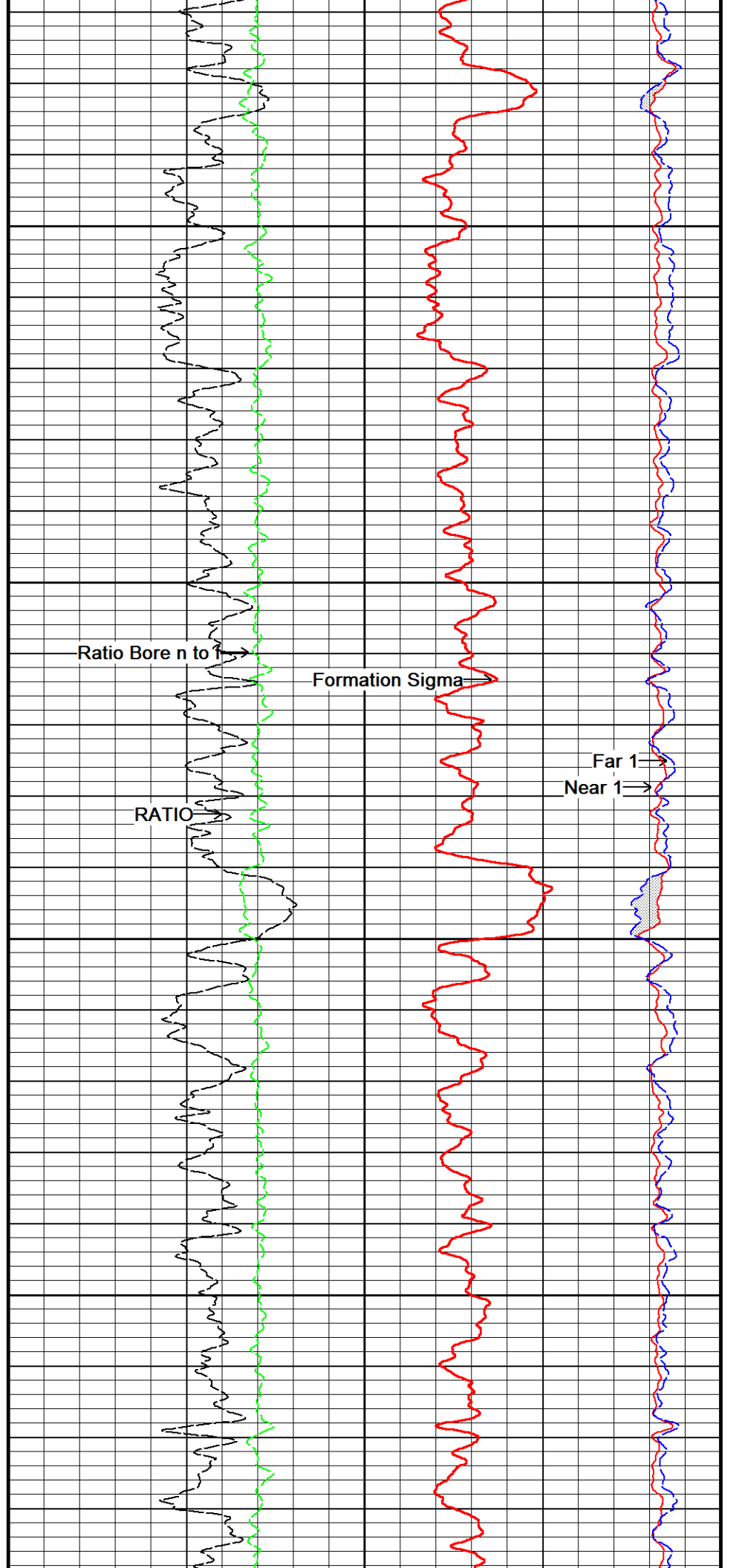
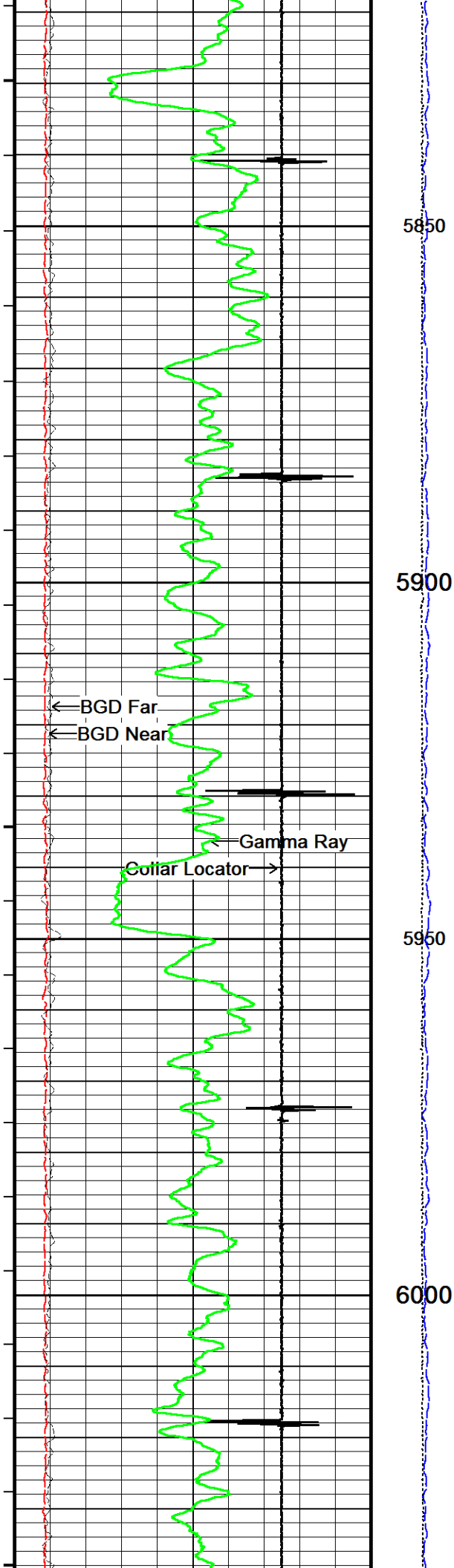


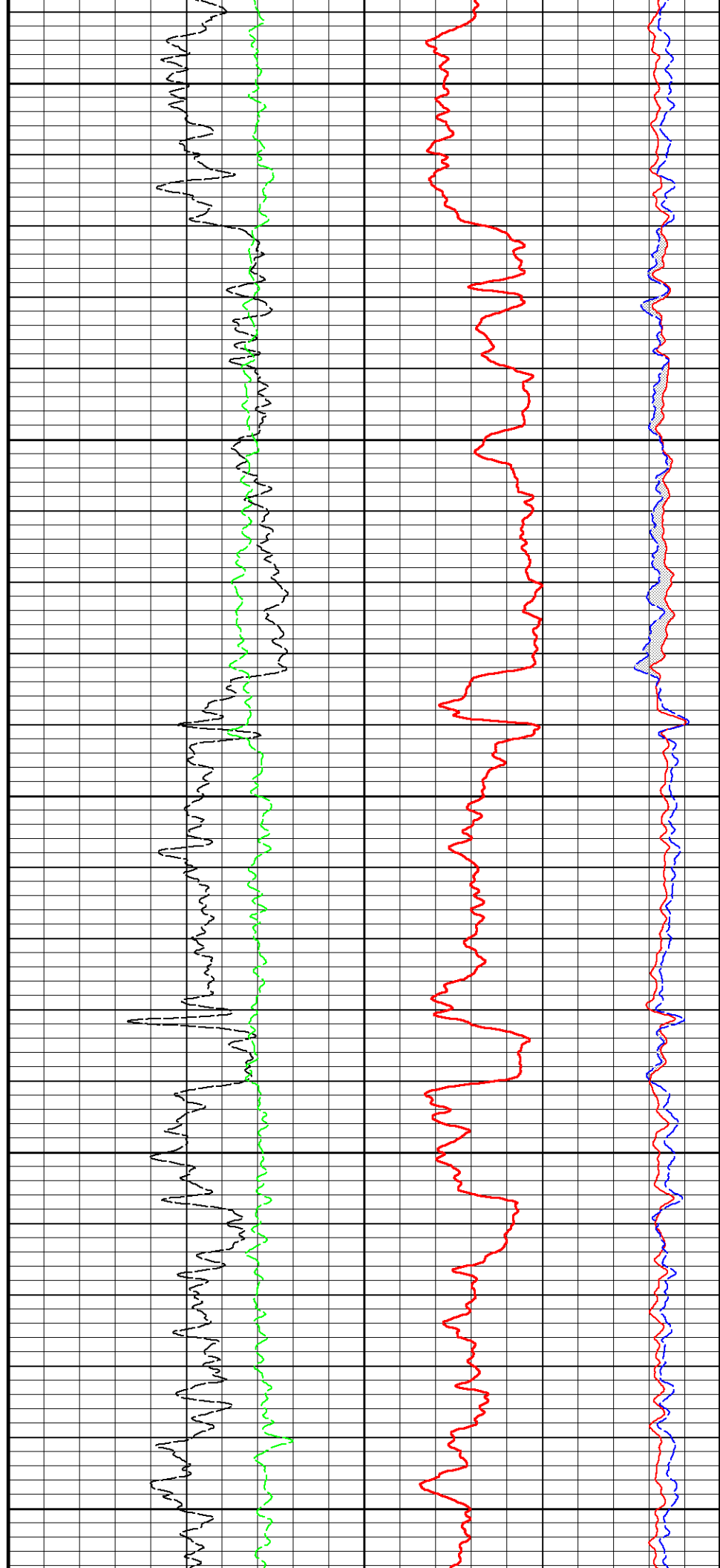
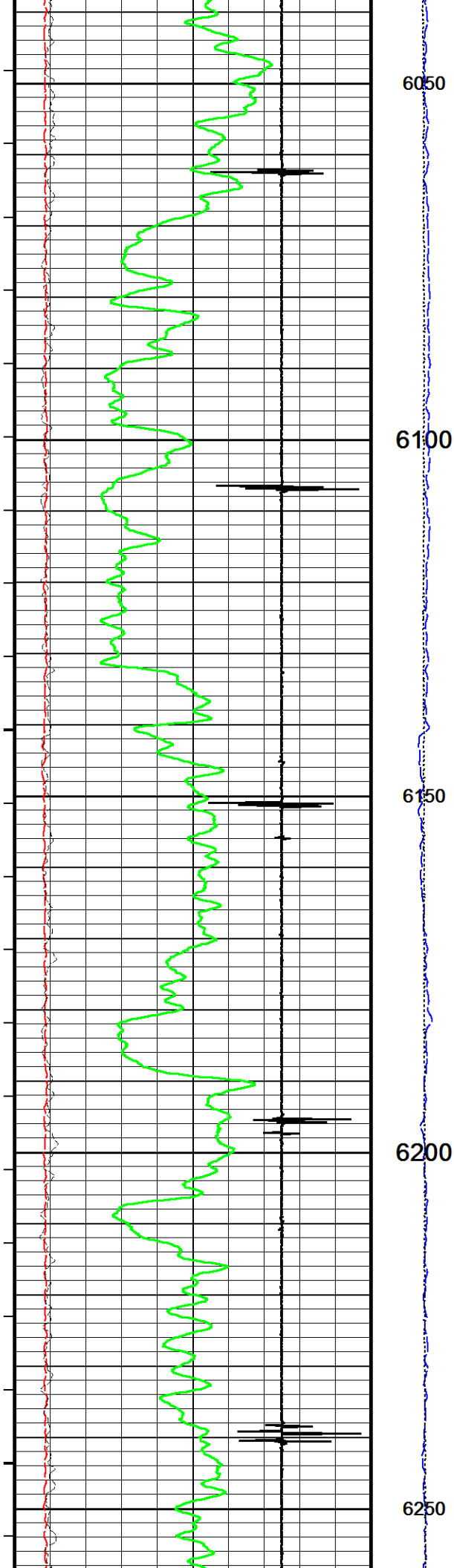


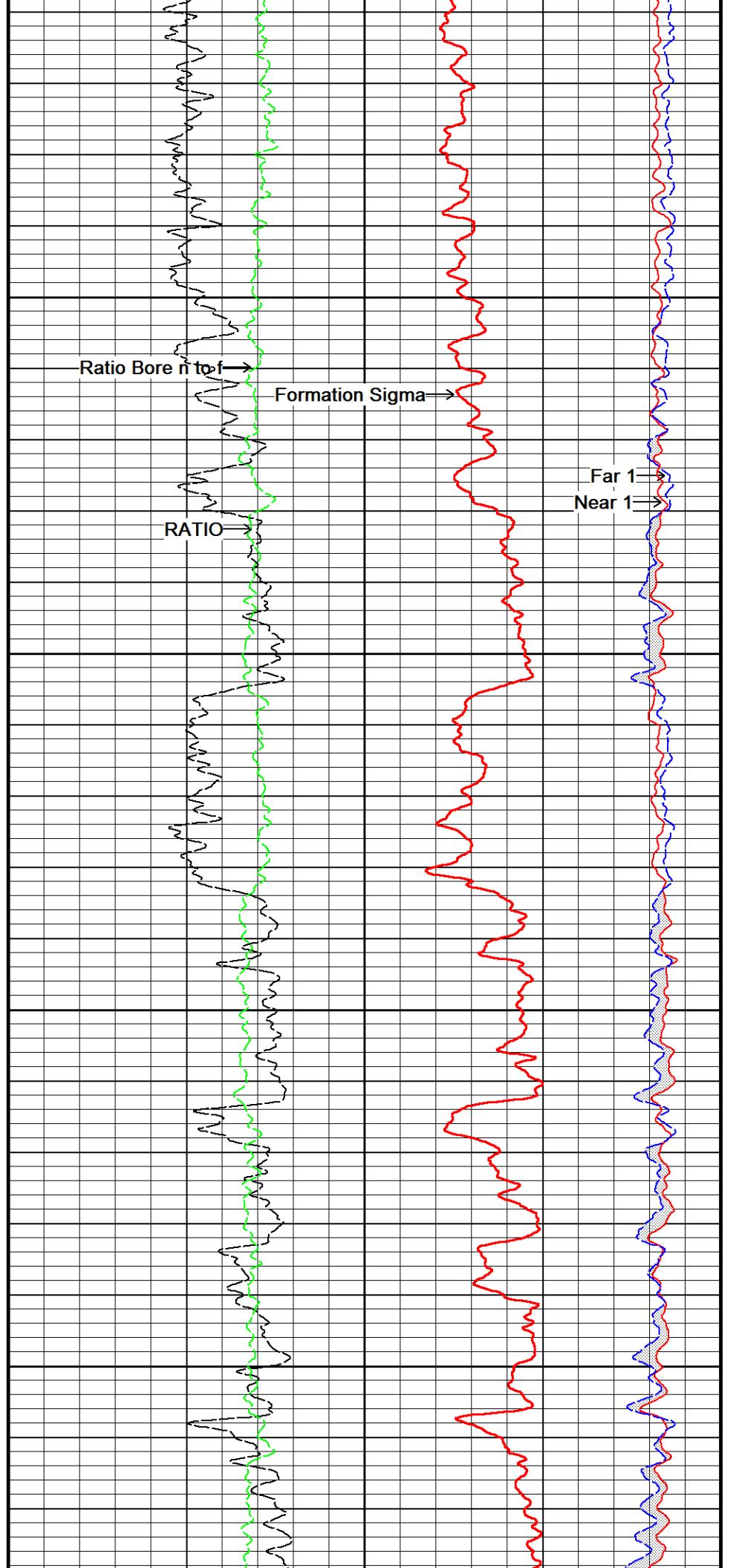
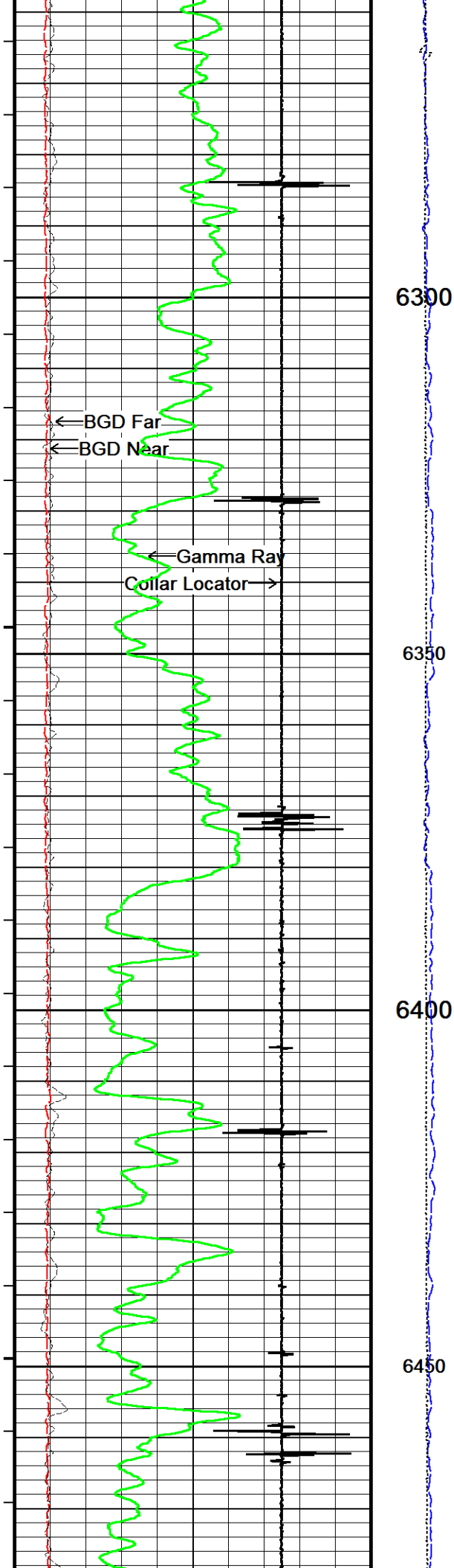


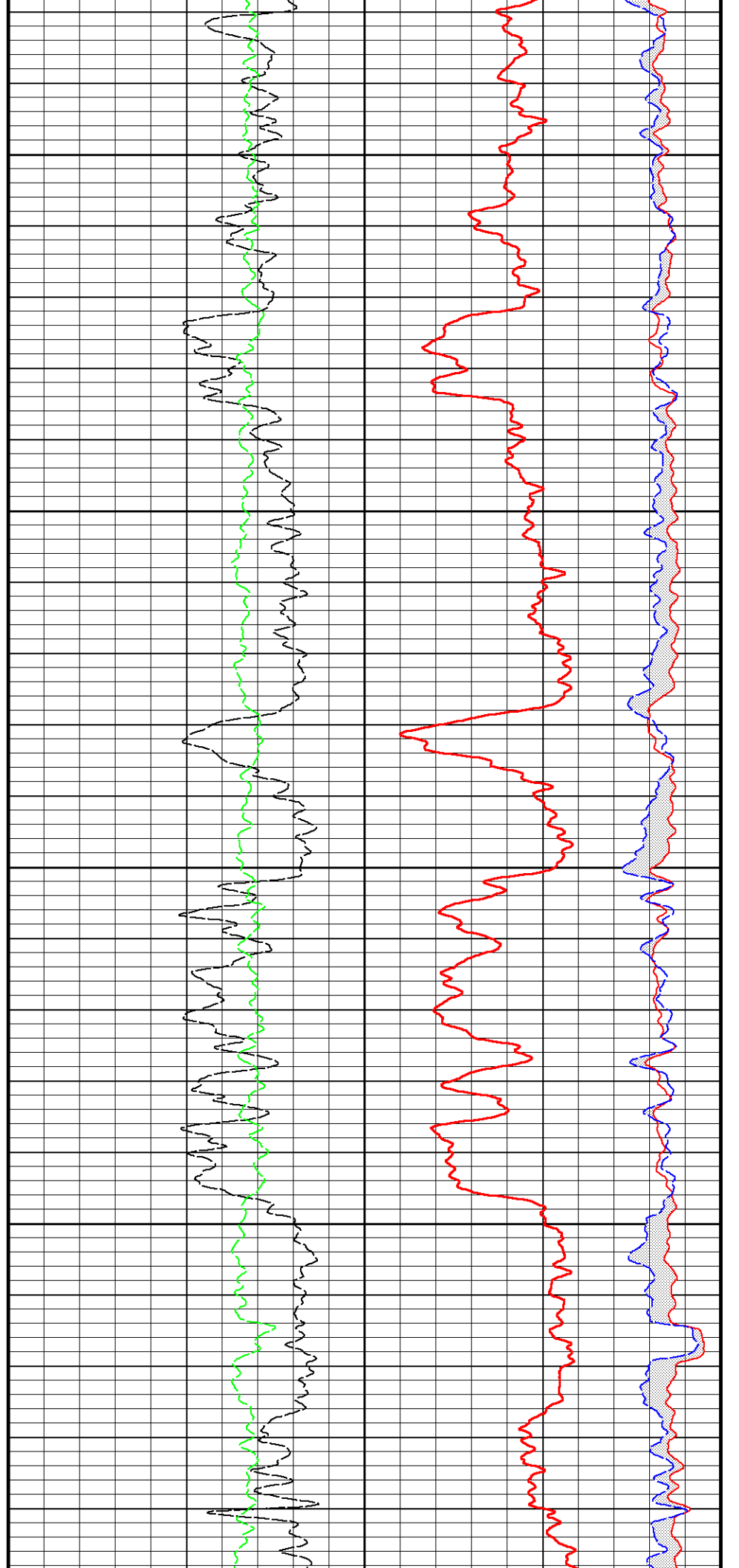
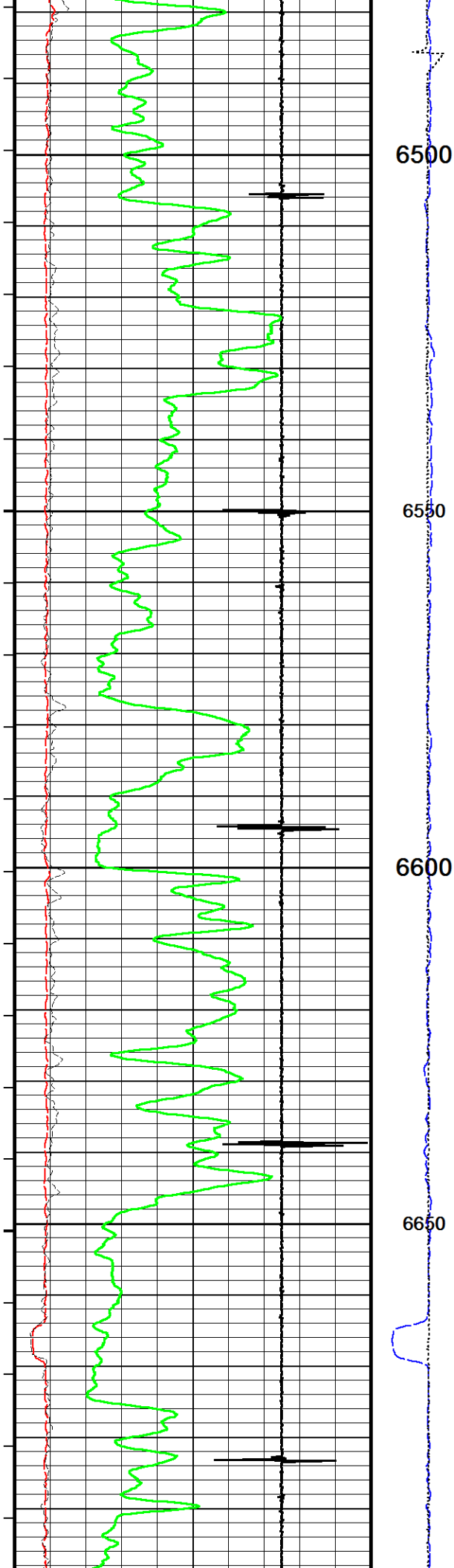
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5800

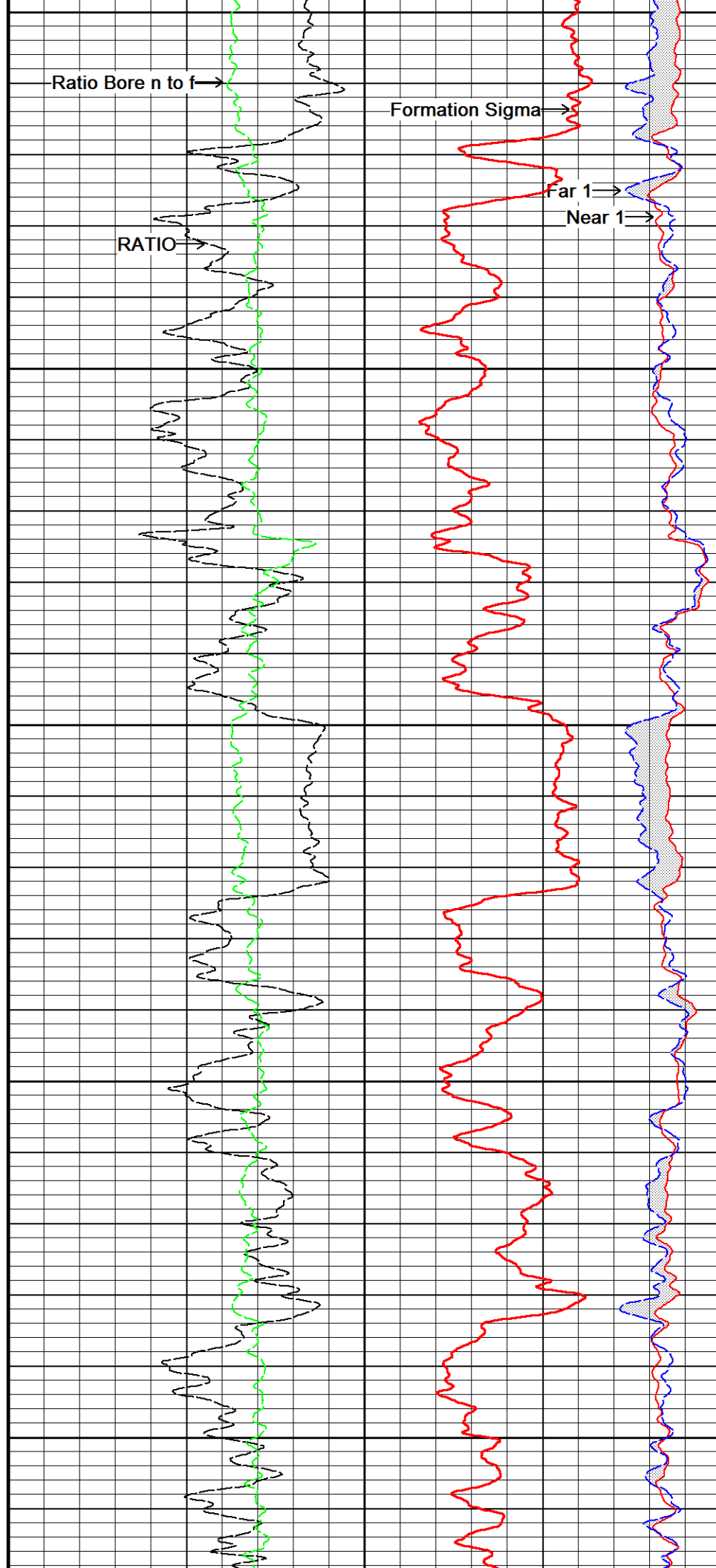
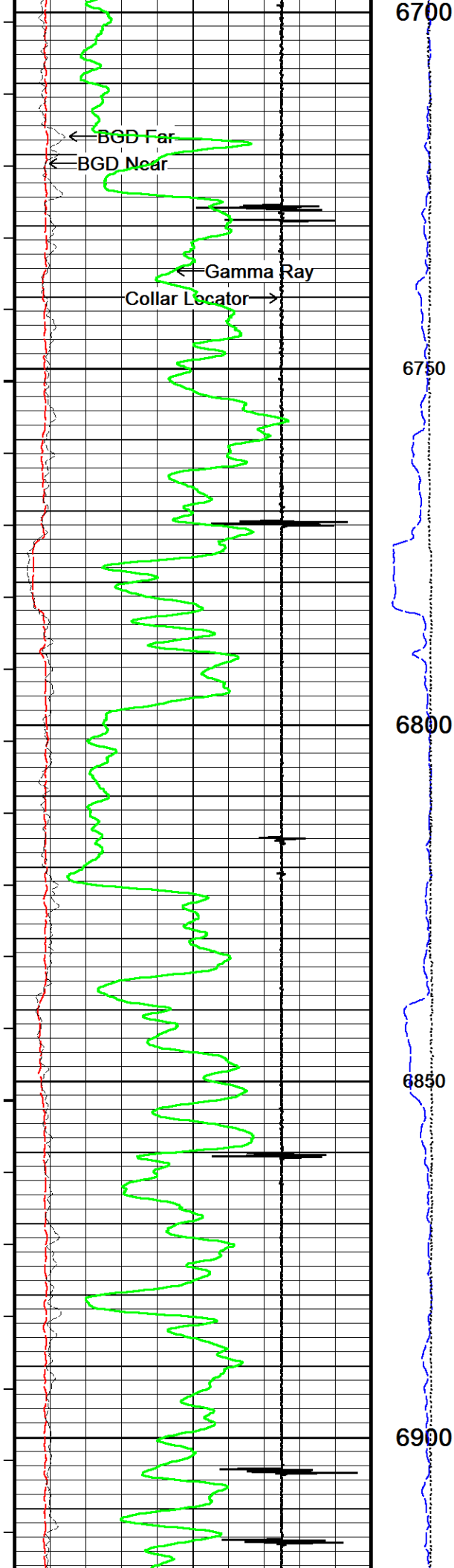




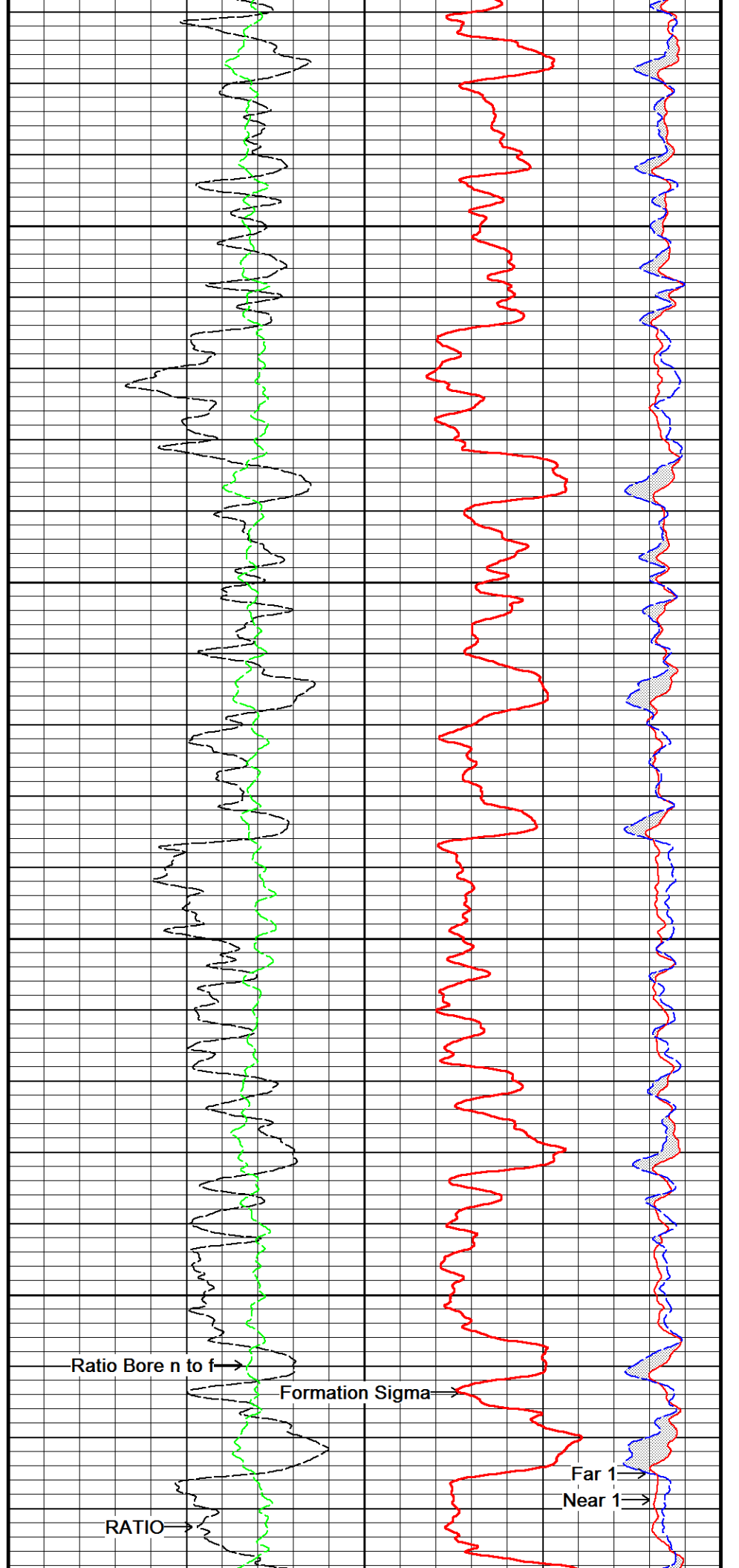
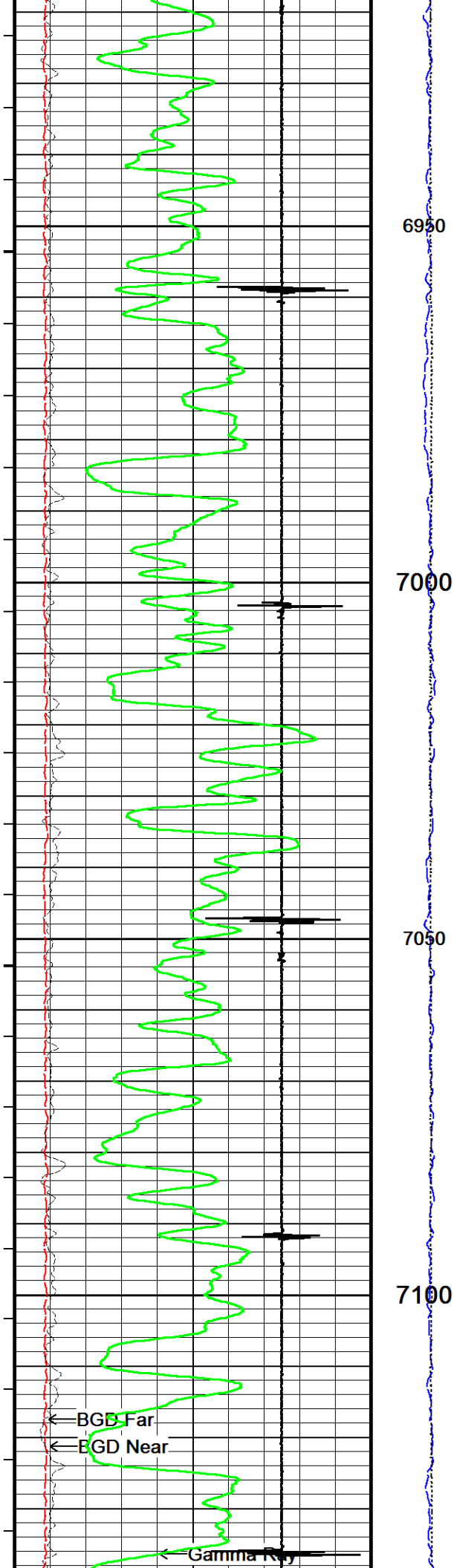


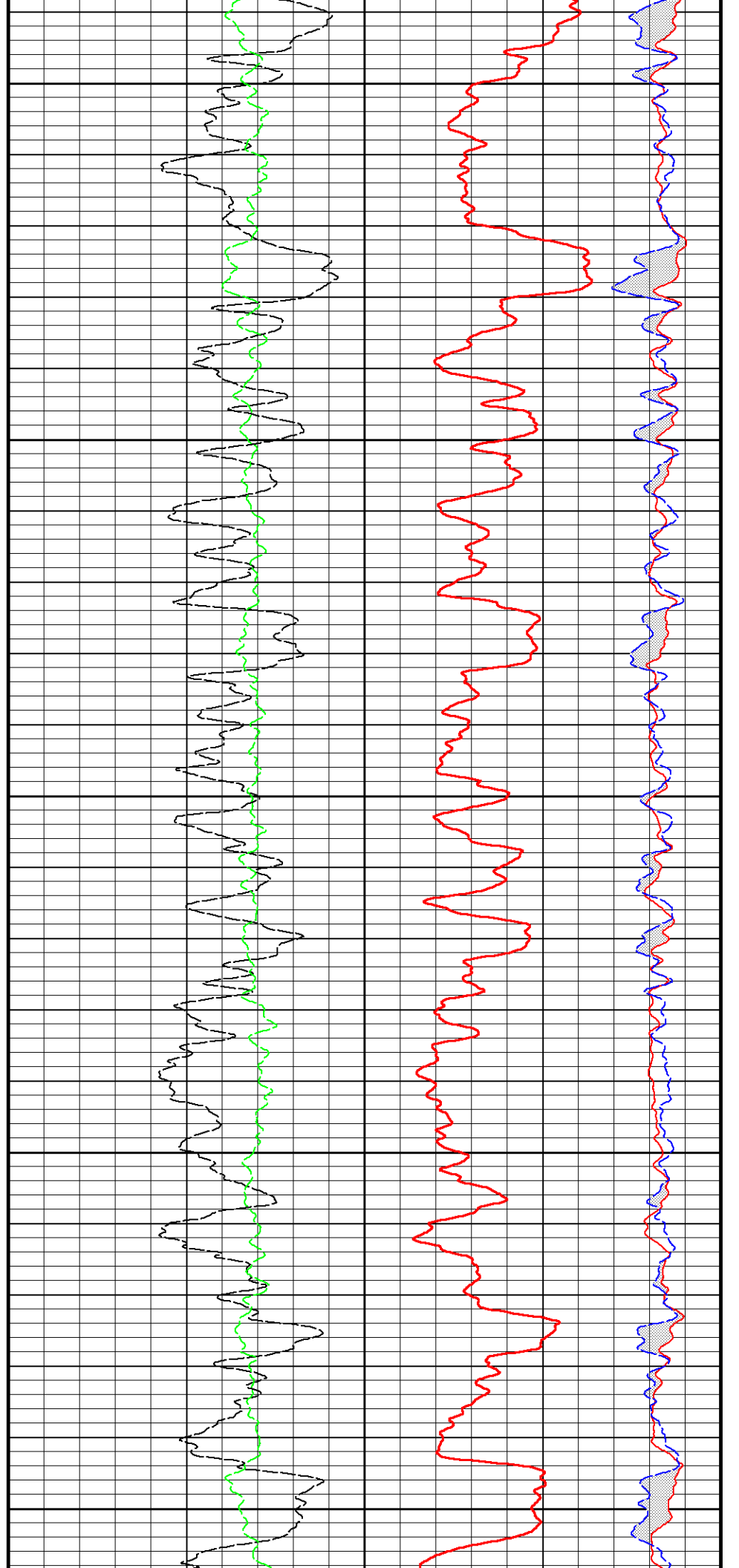
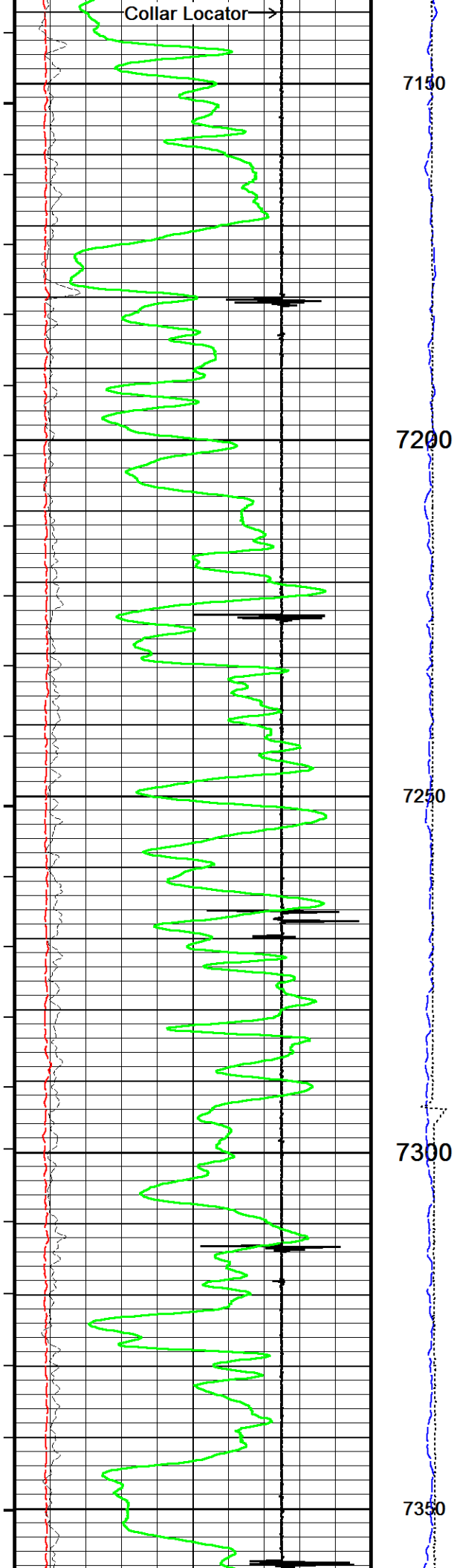


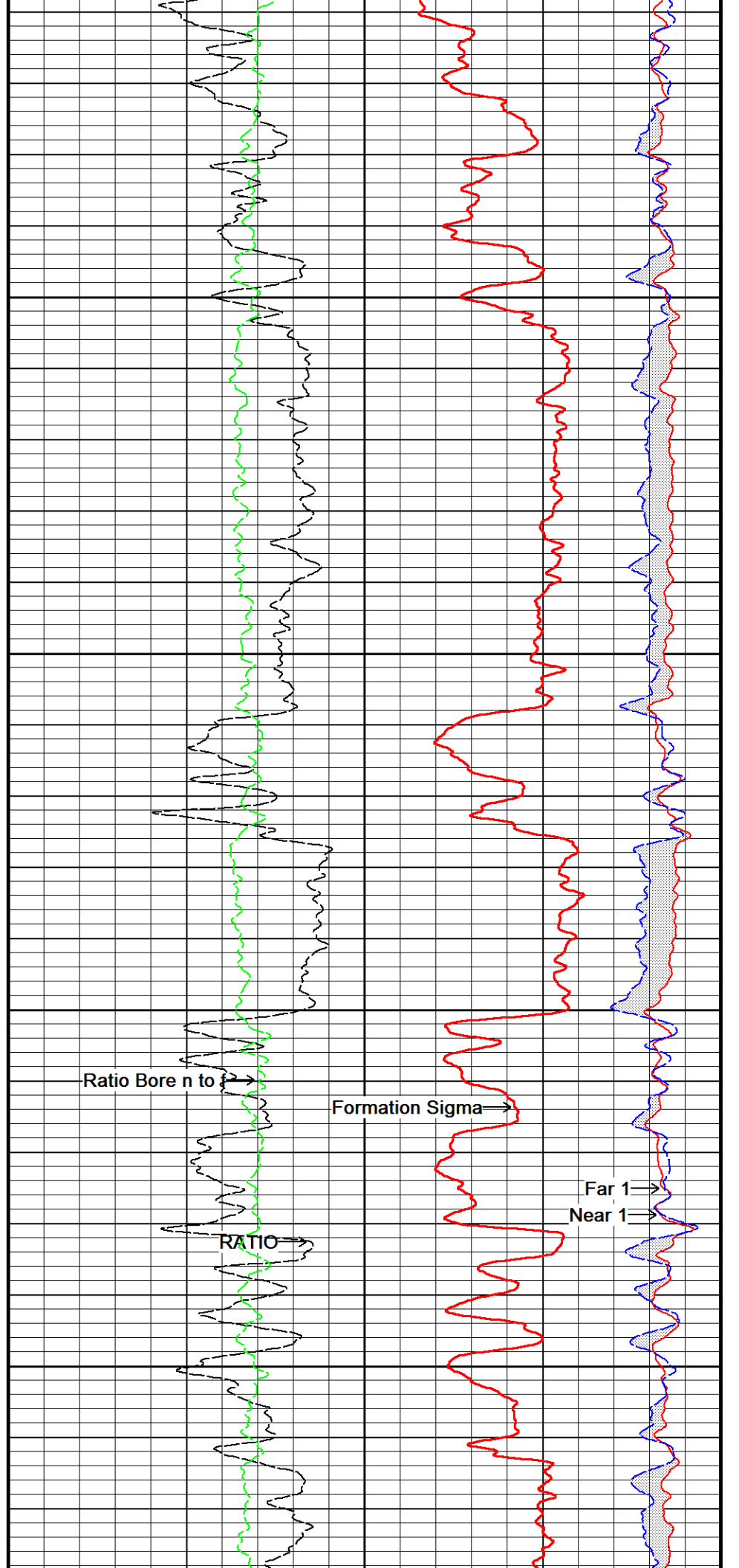
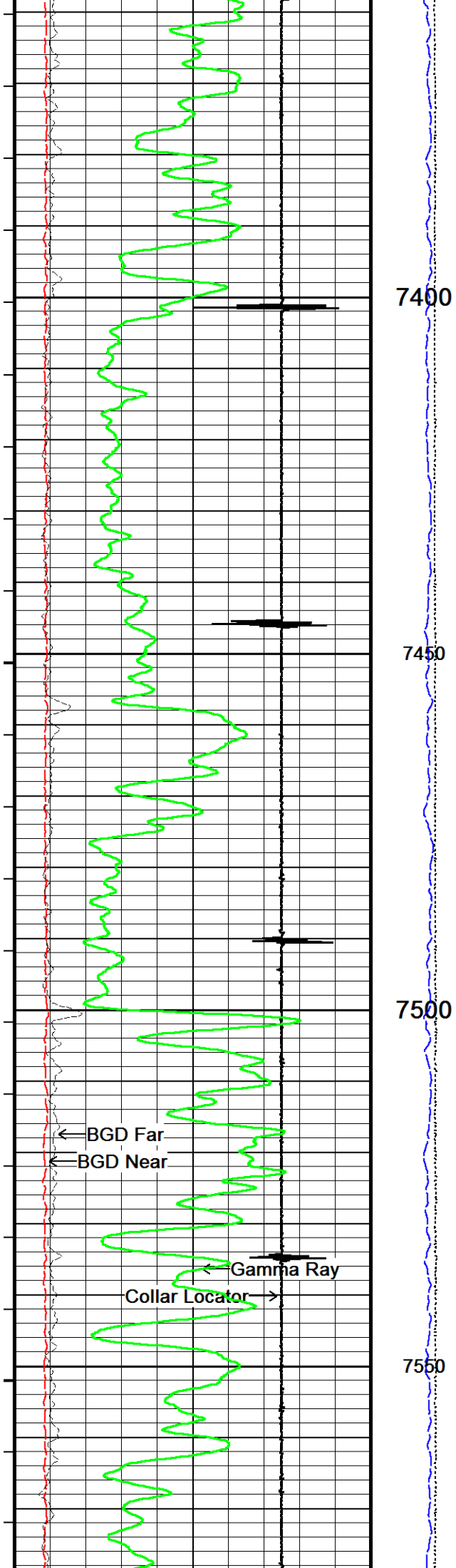


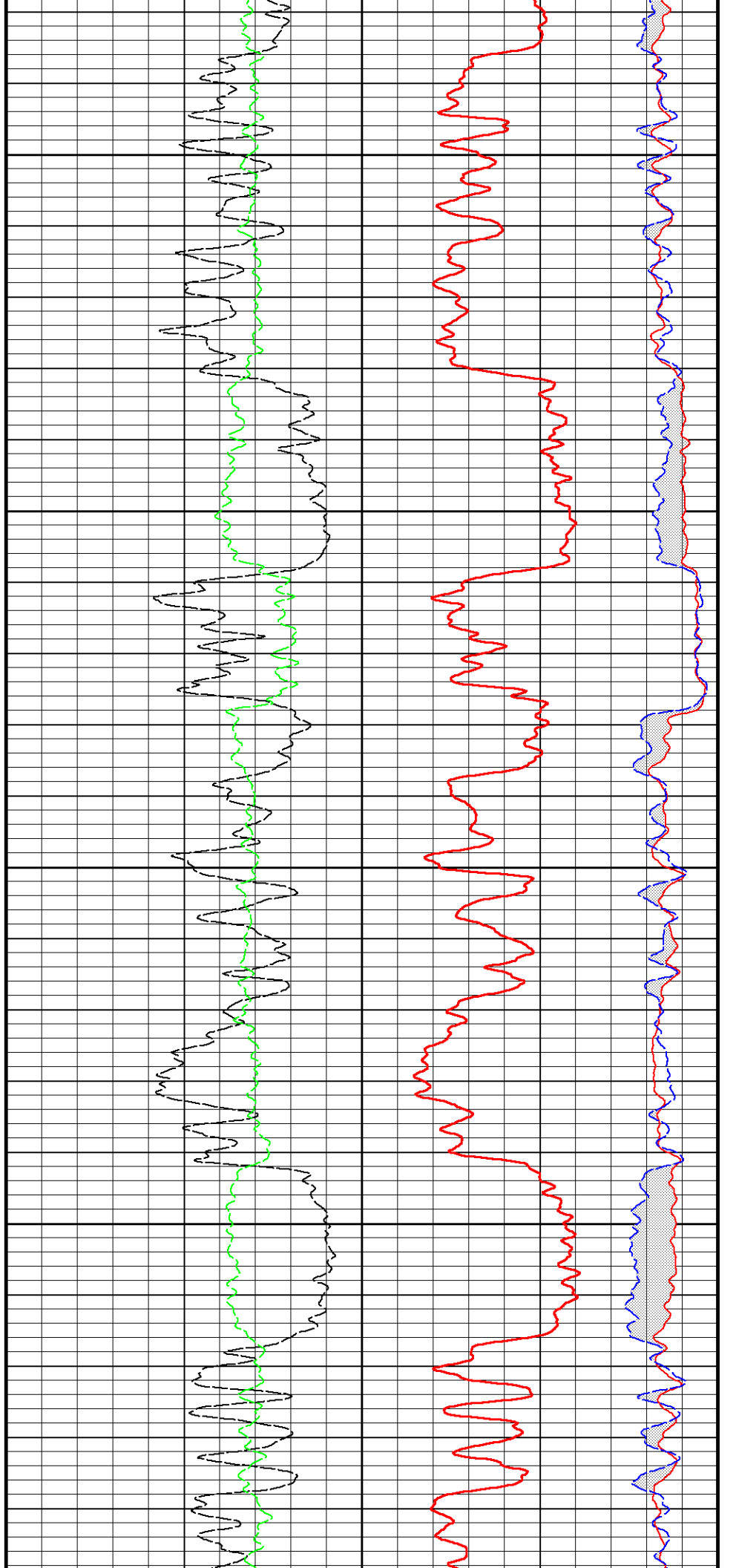
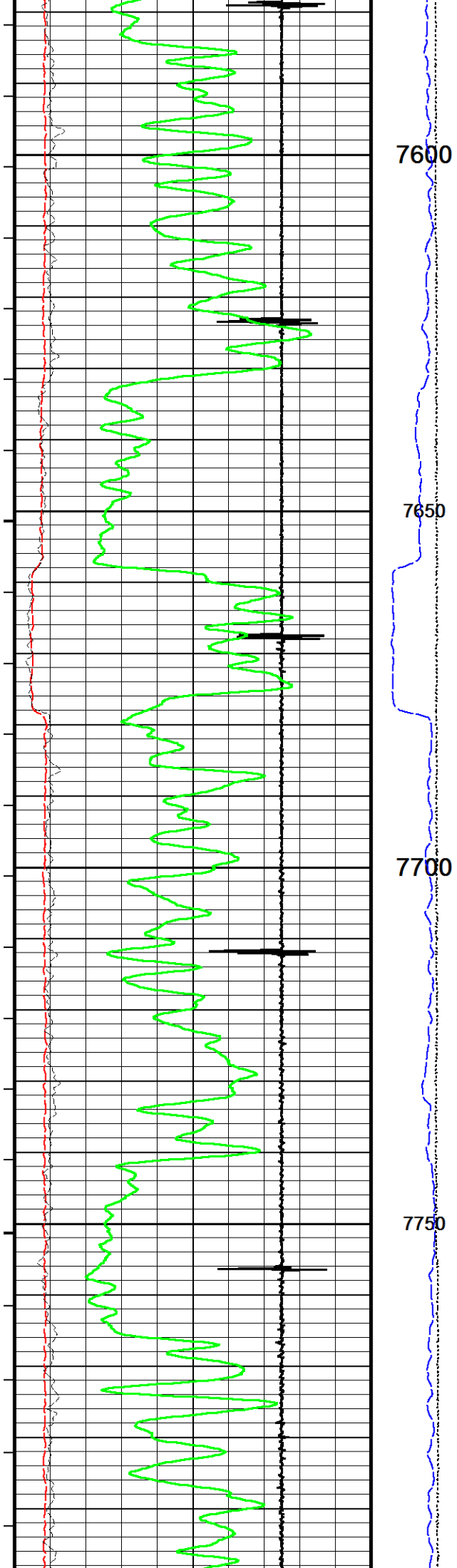


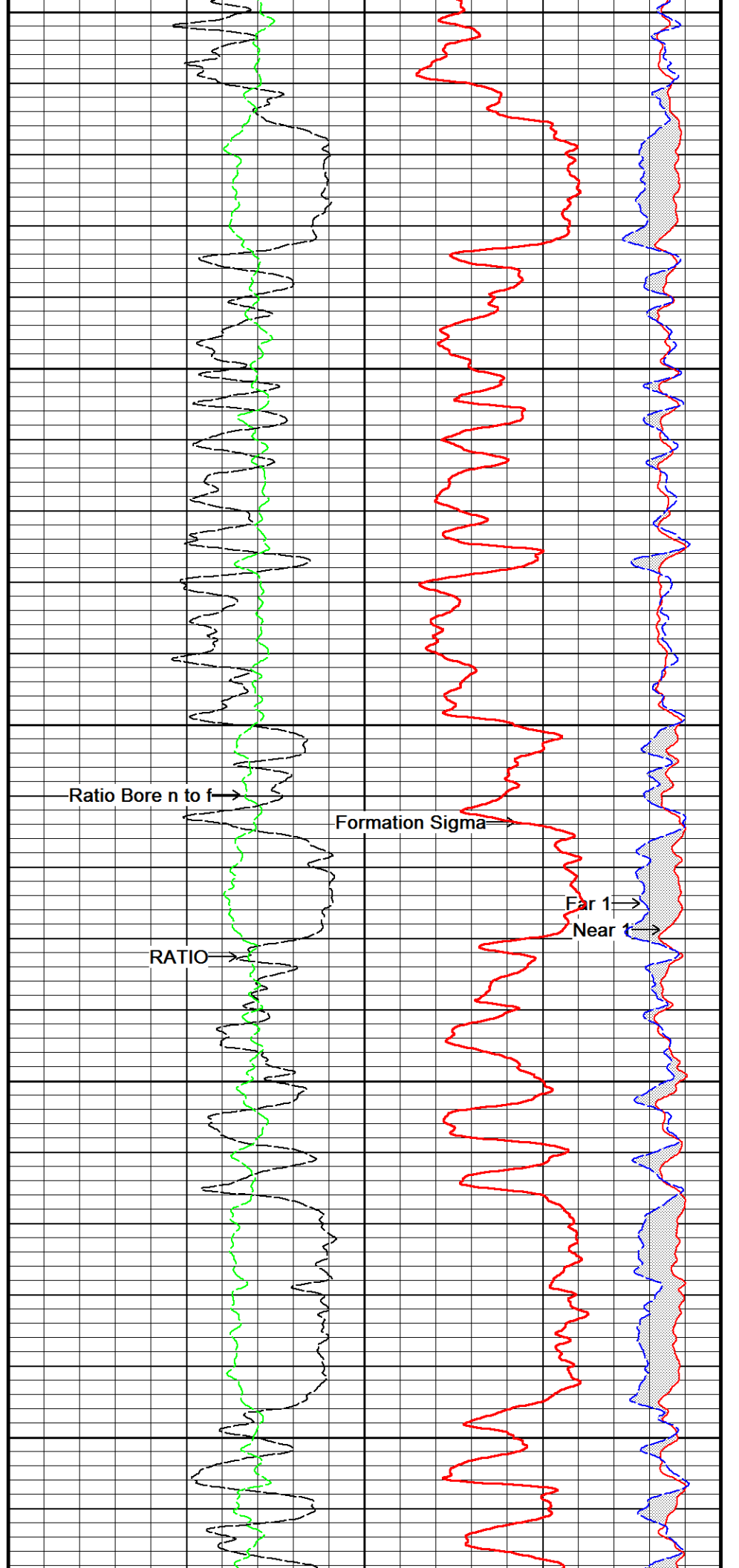
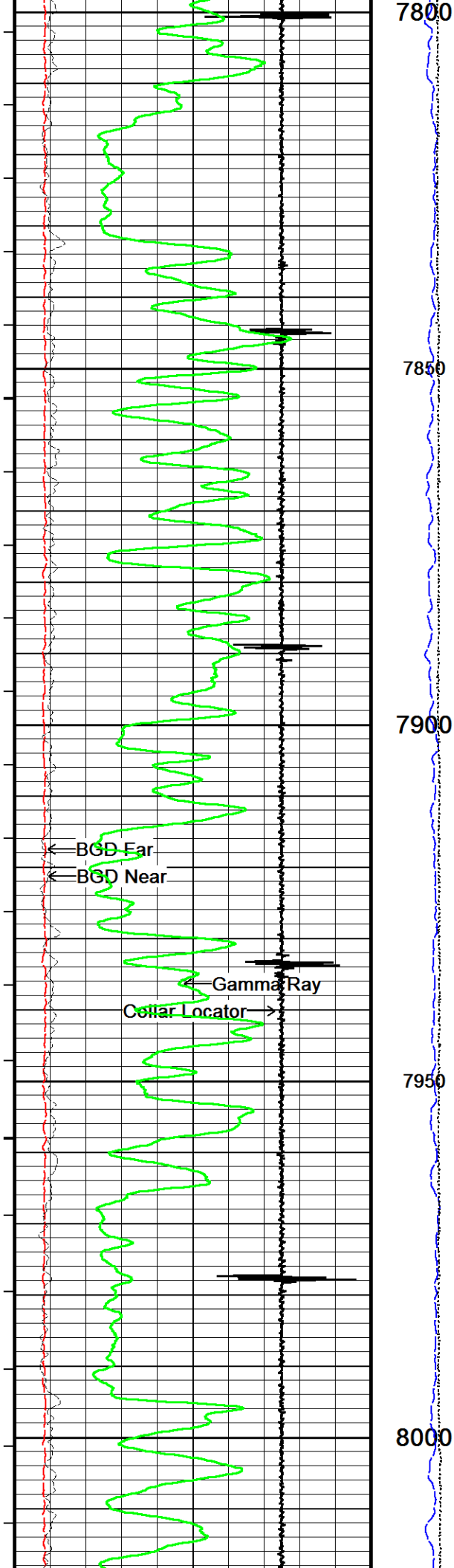


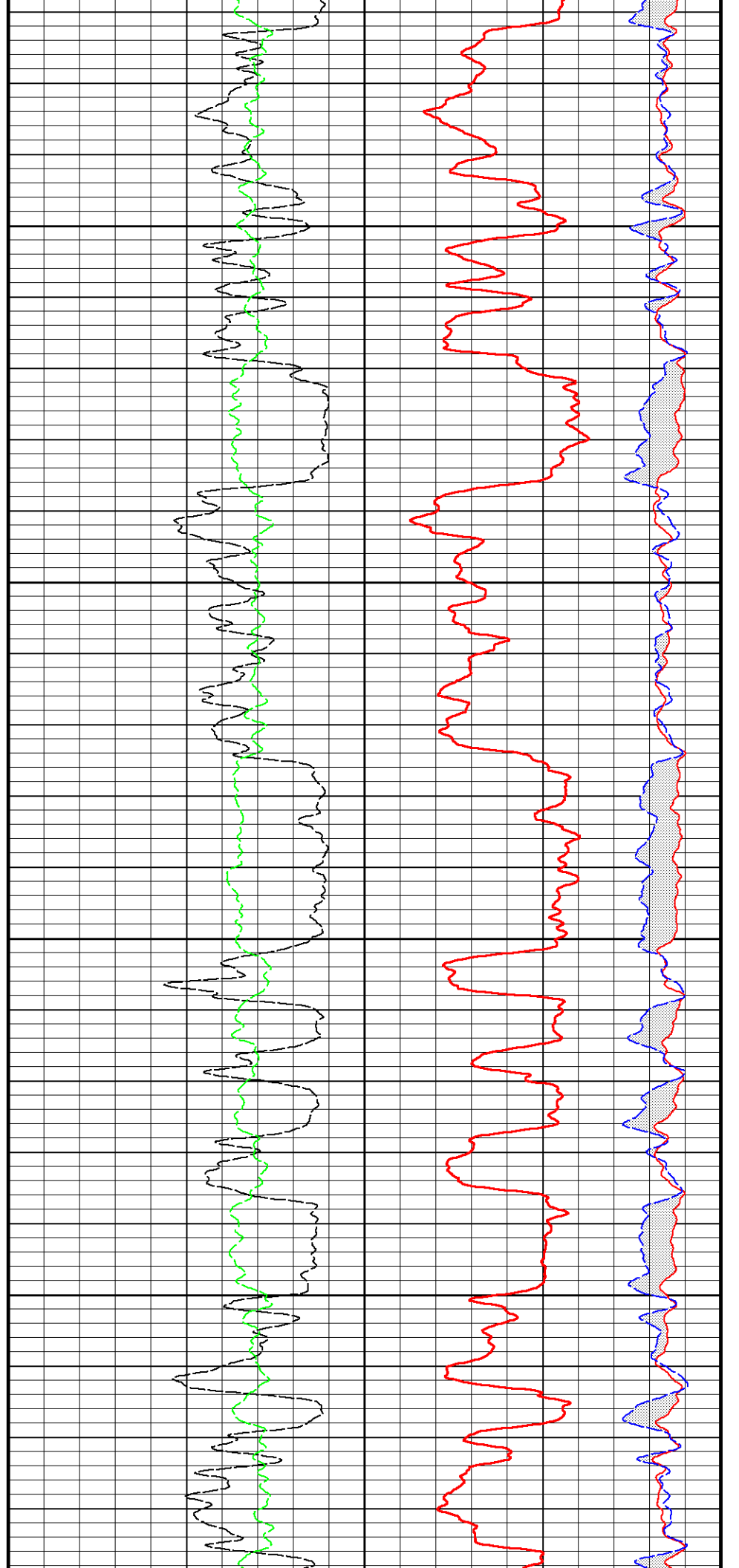
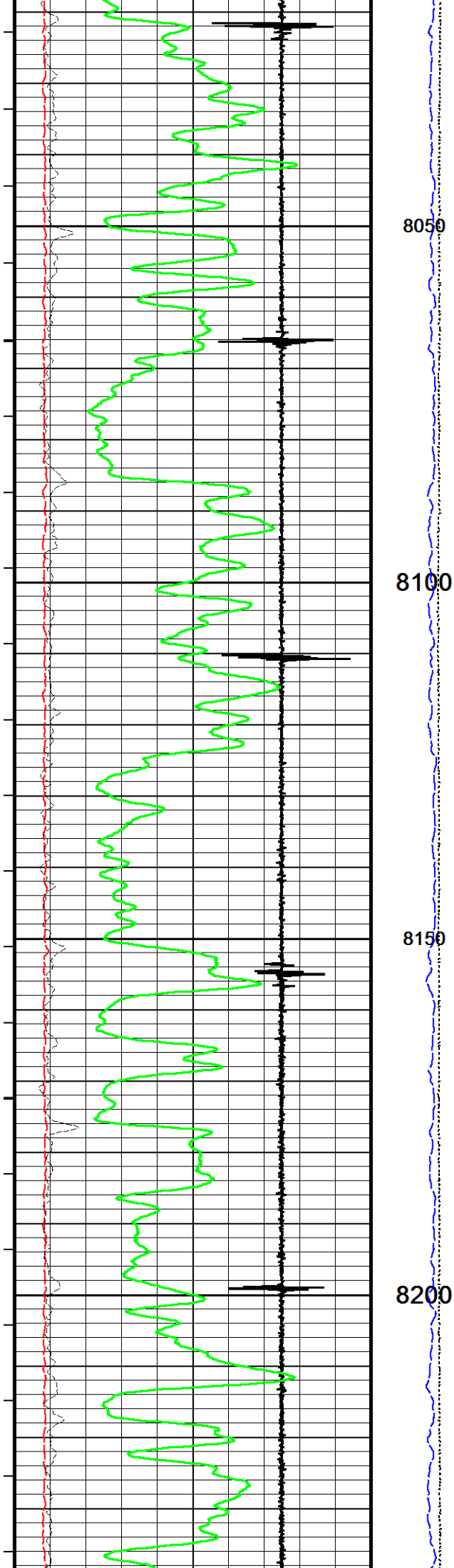


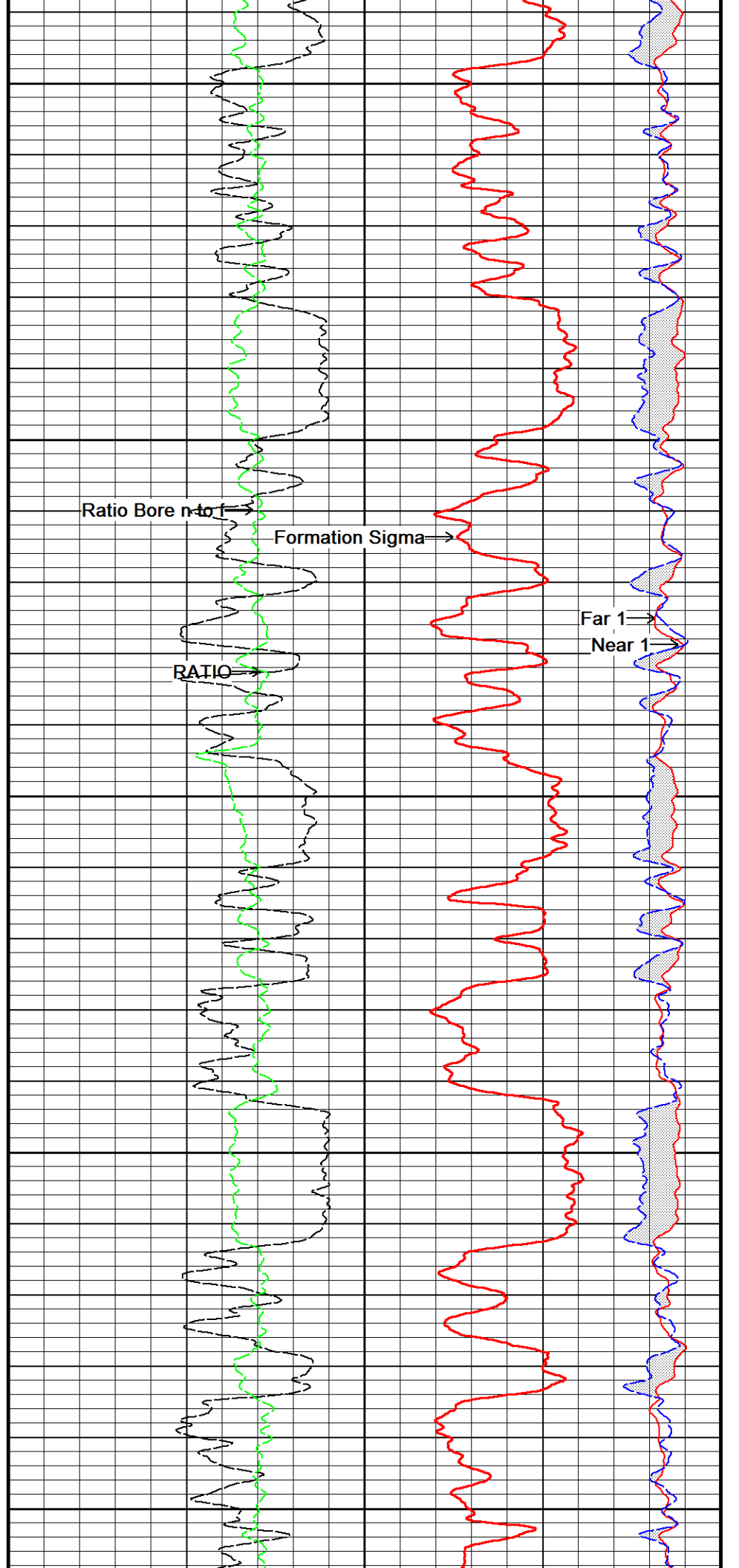
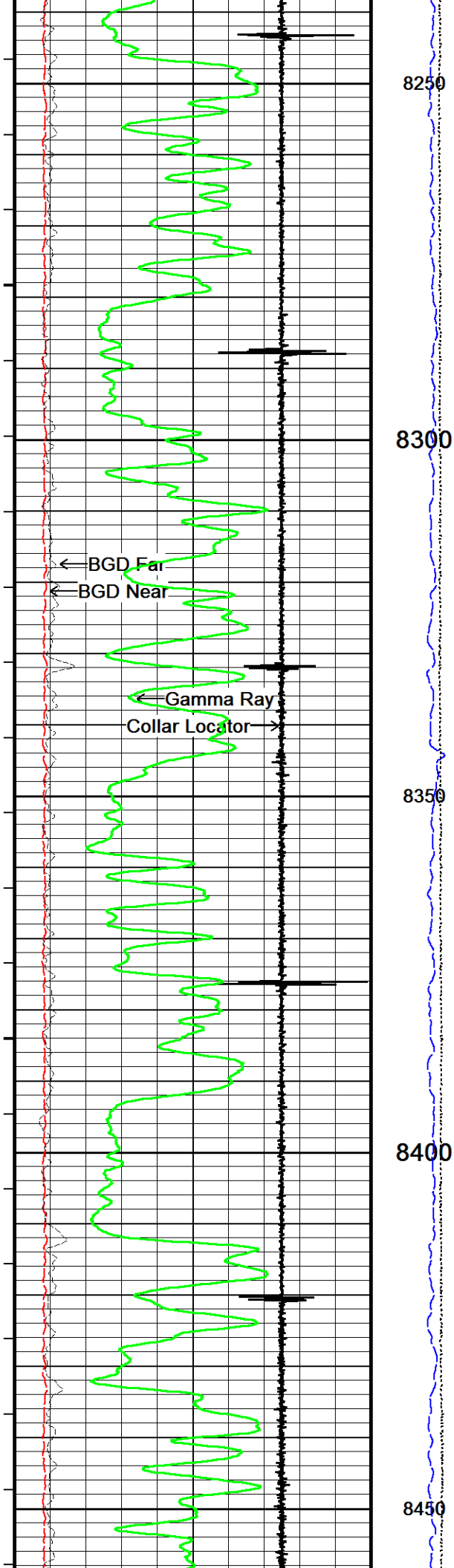




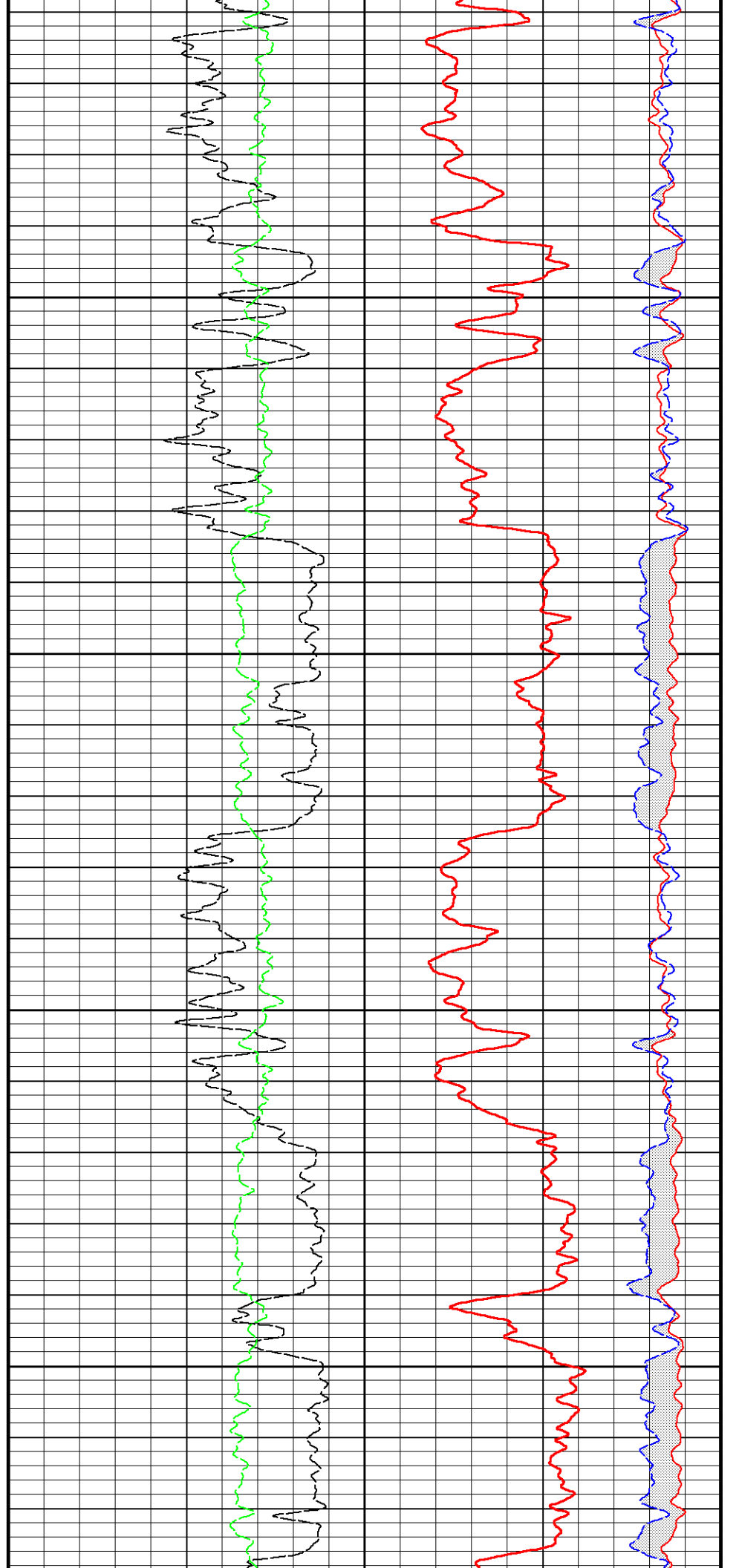
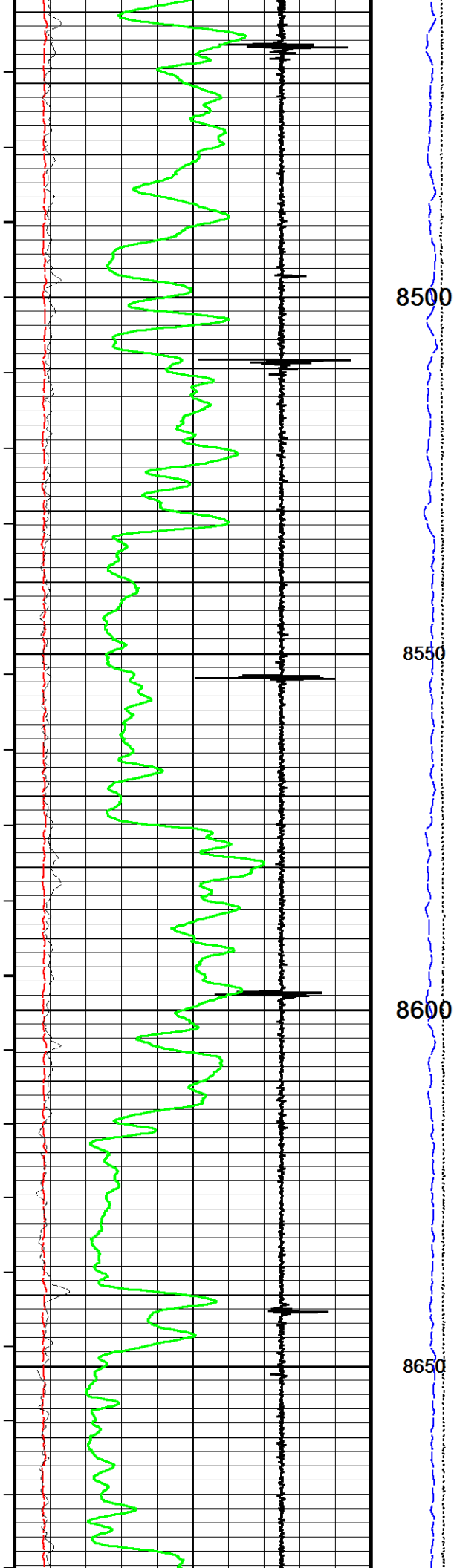


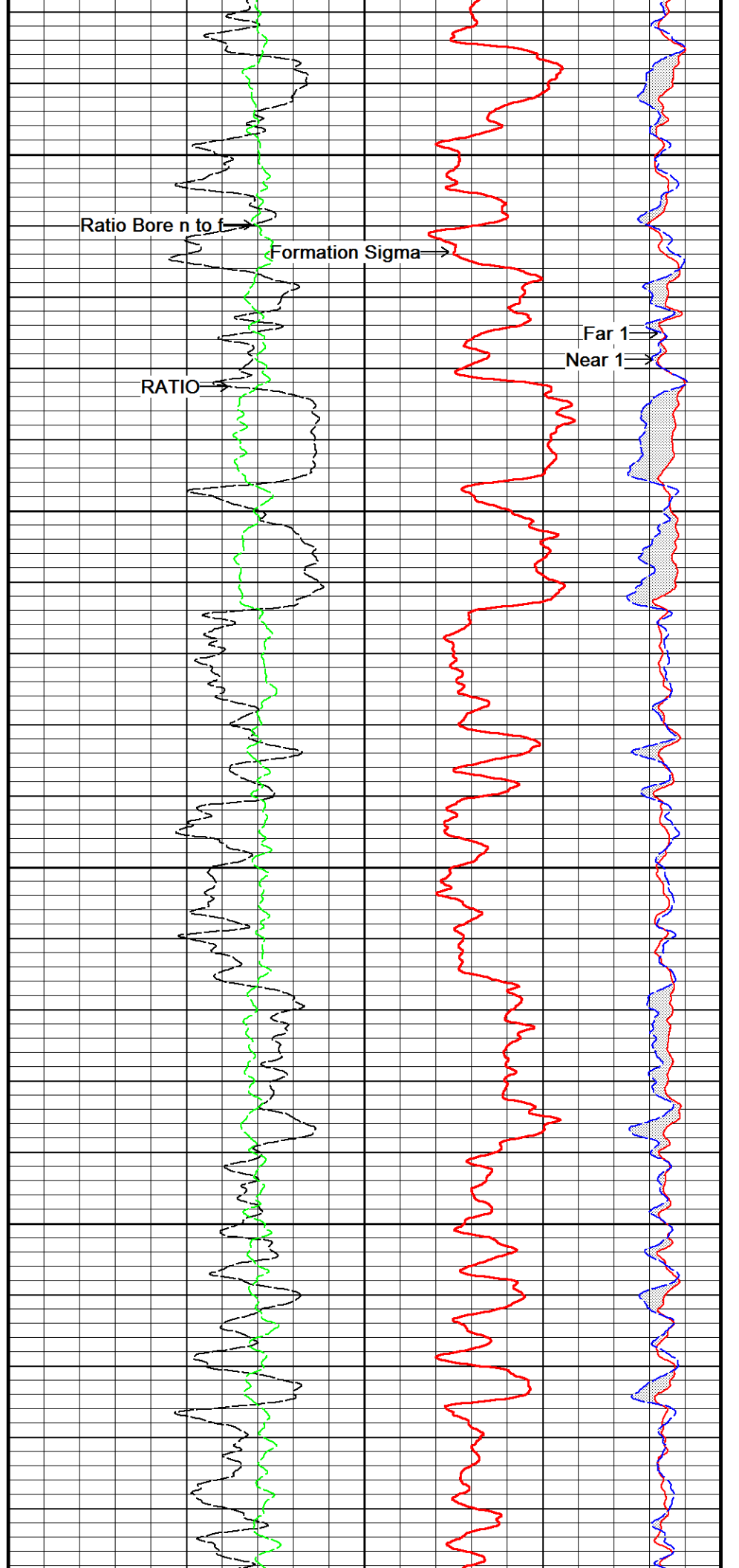
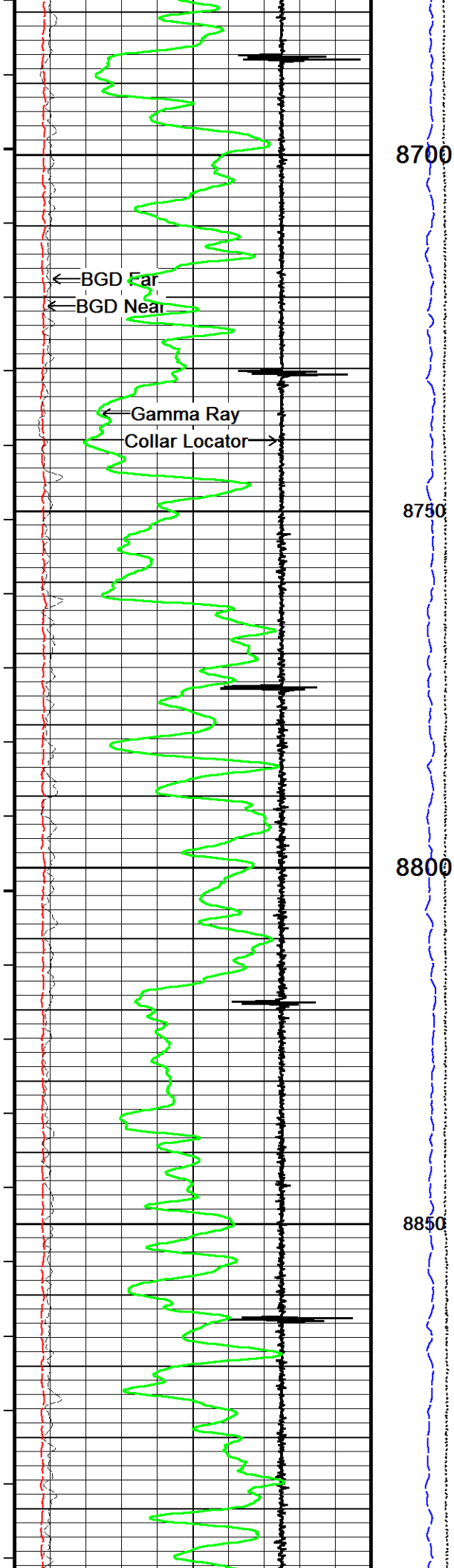


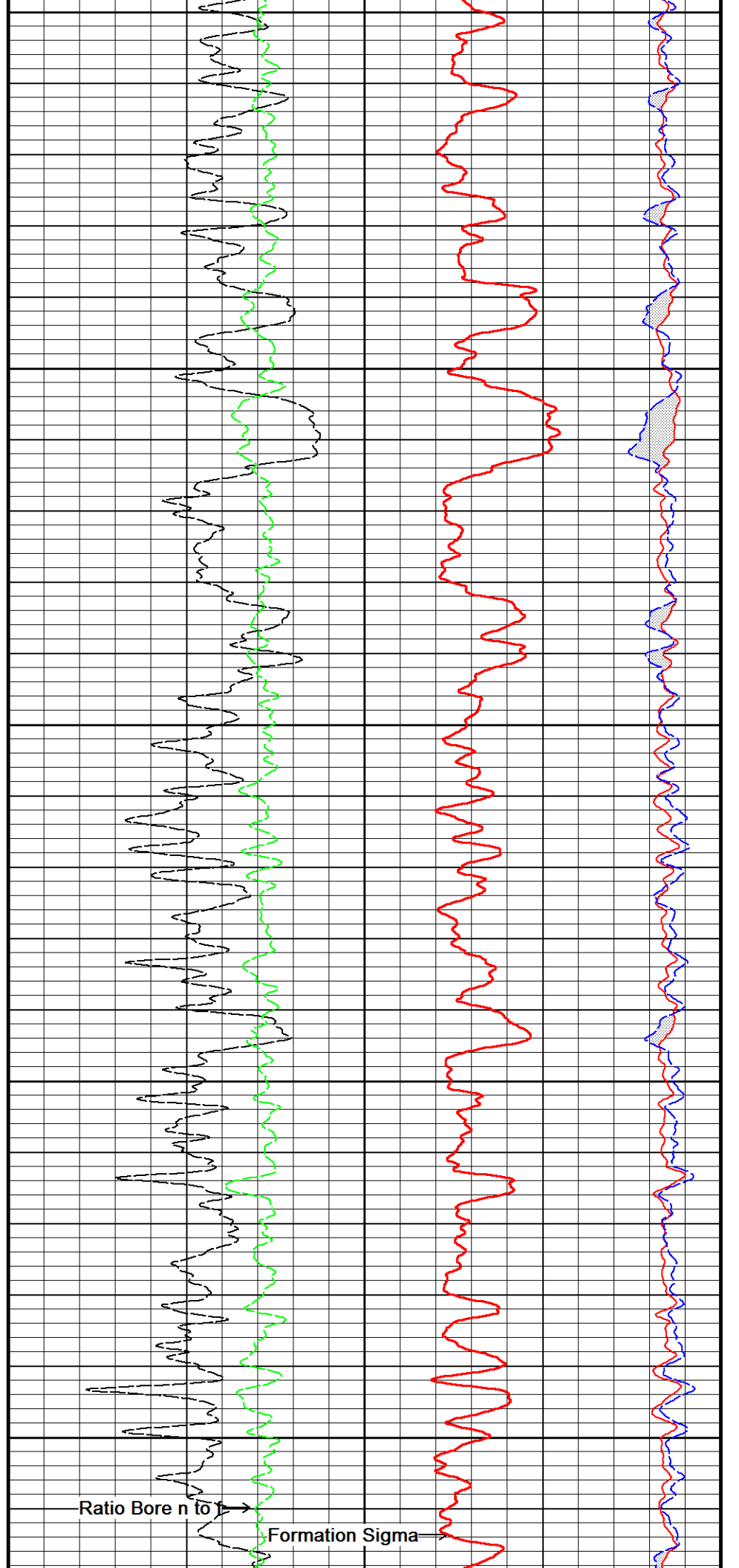
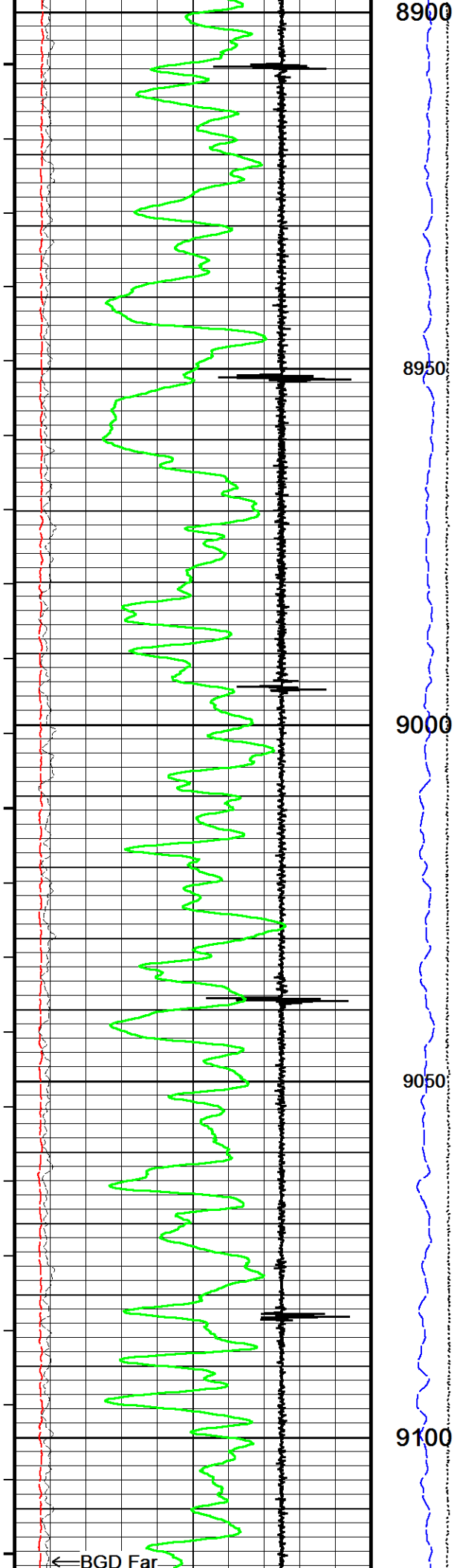


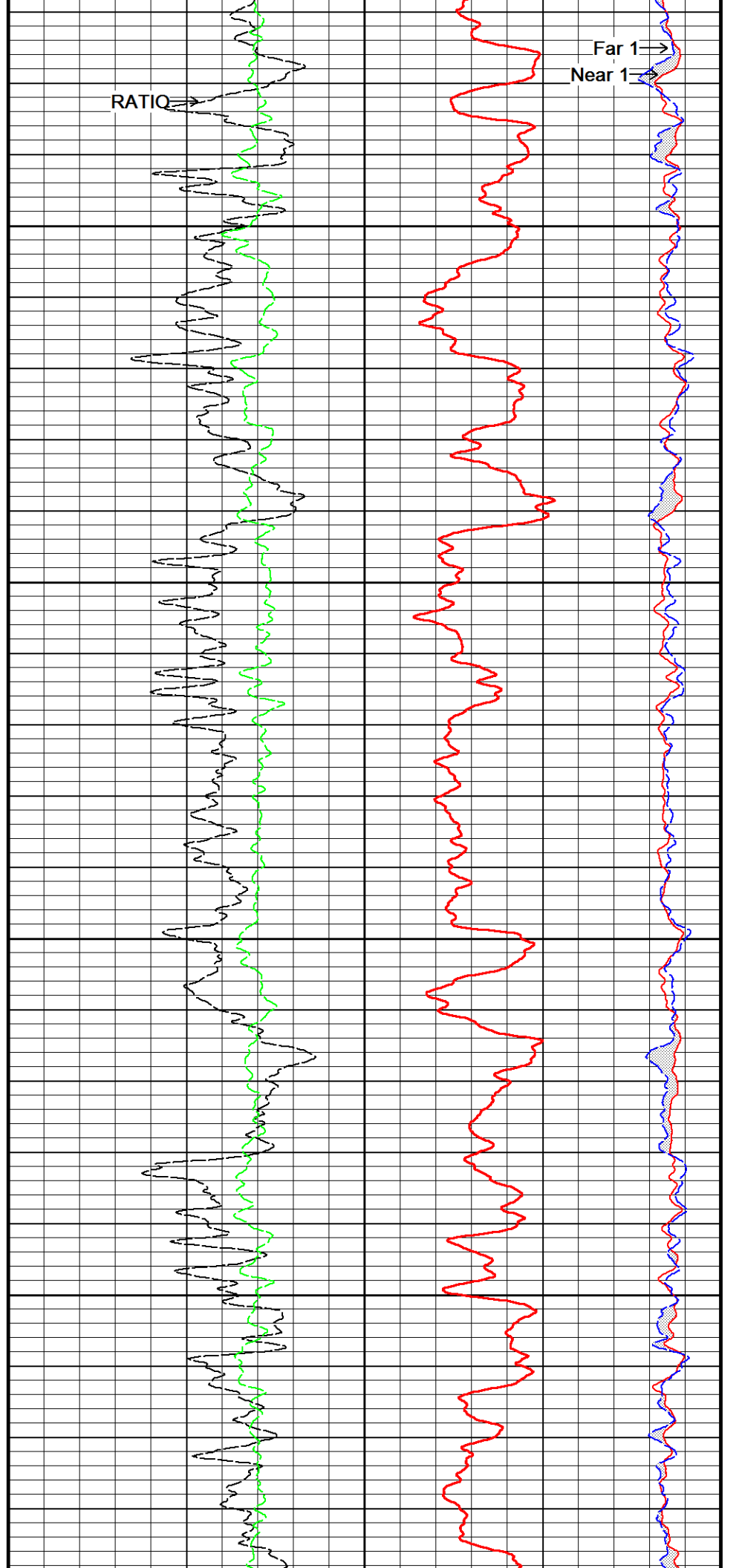
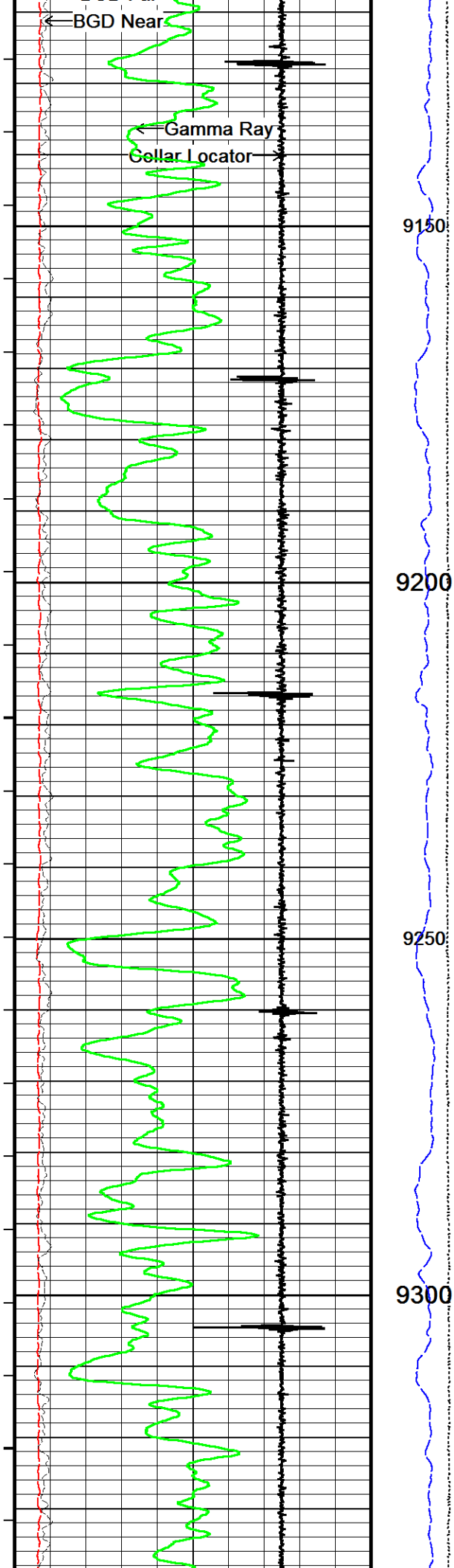


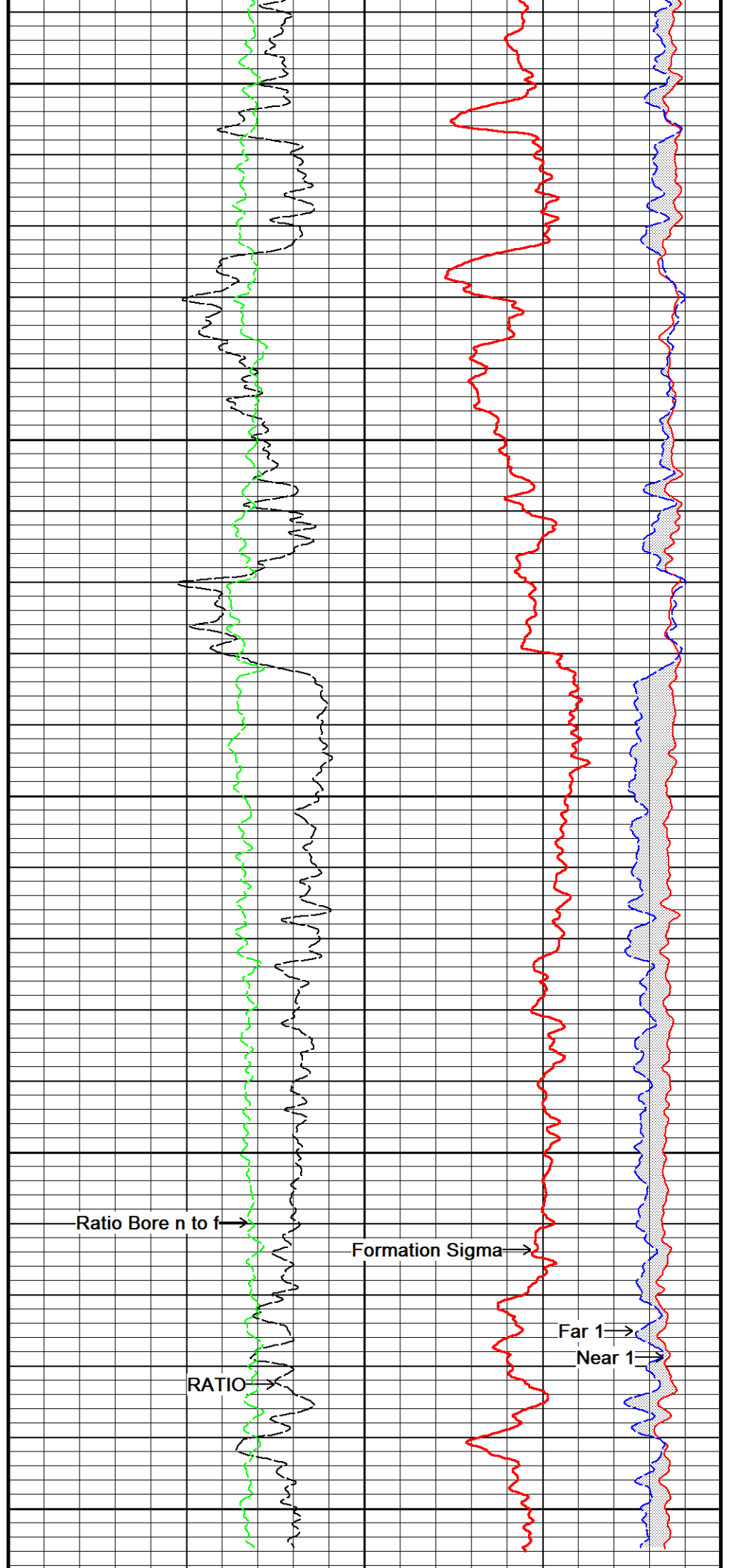
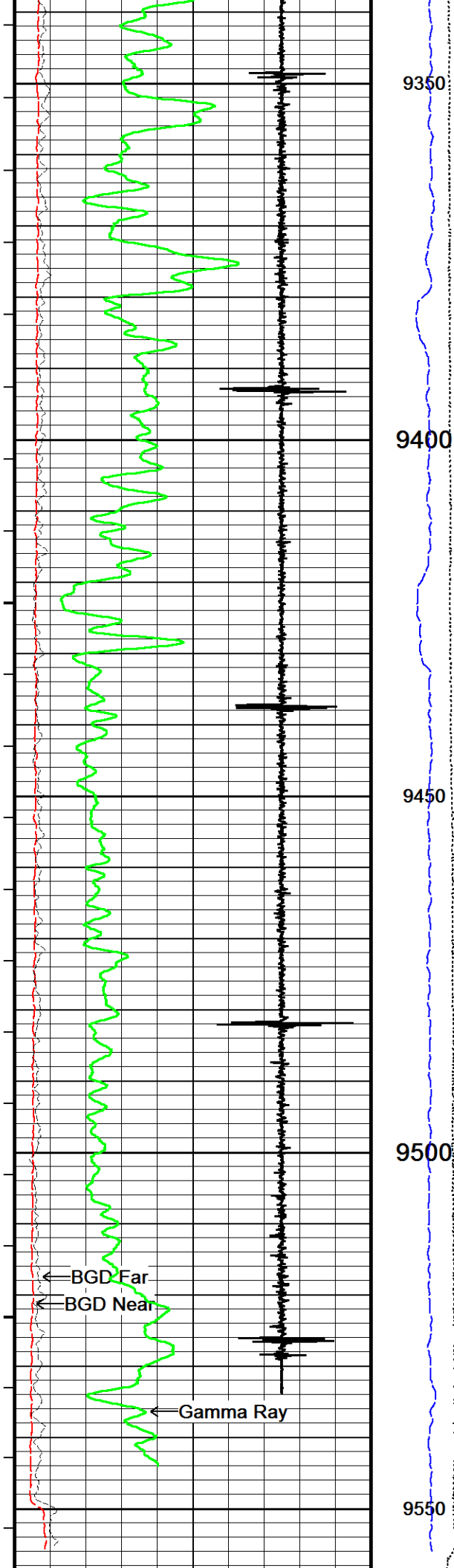


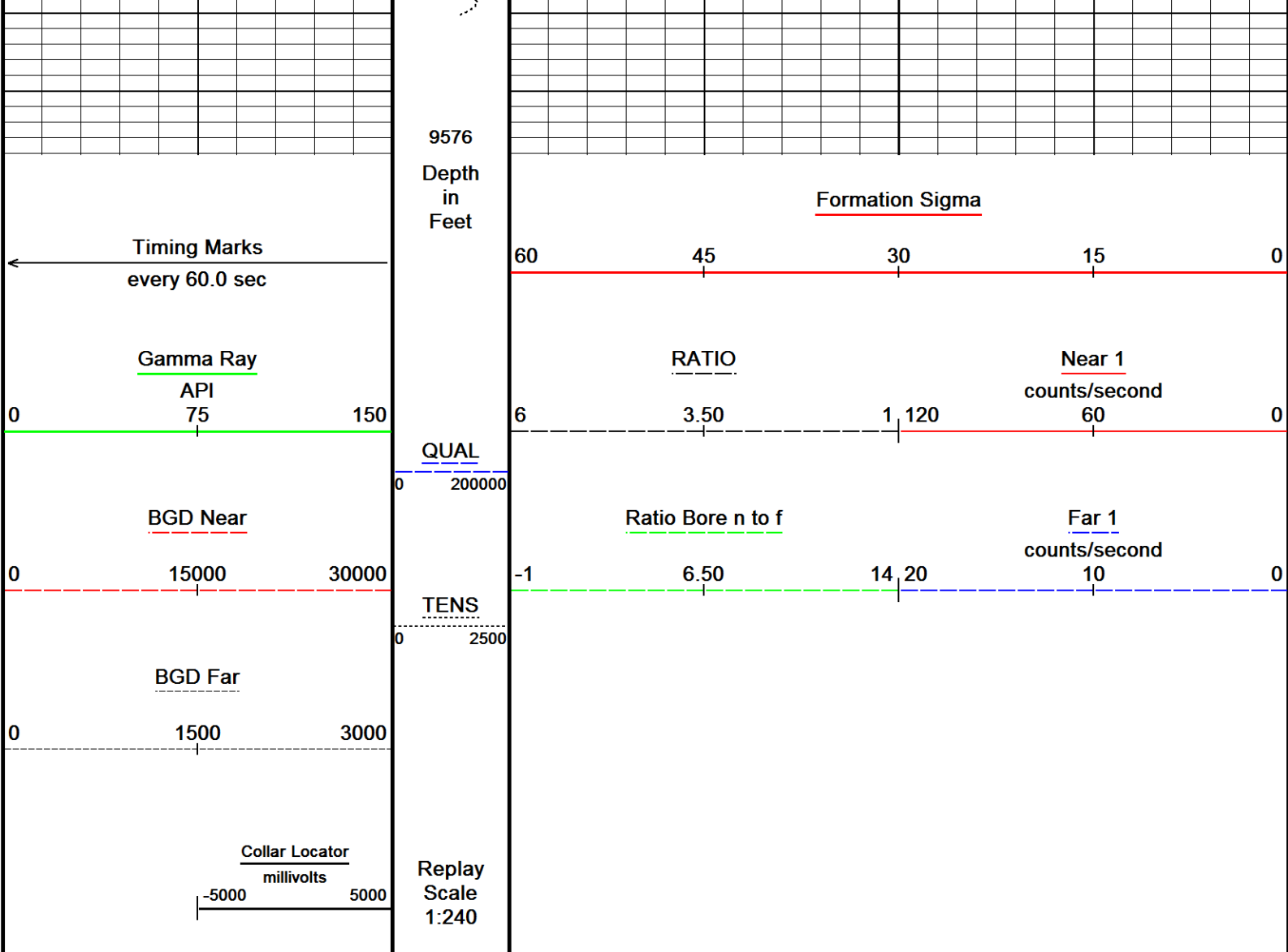








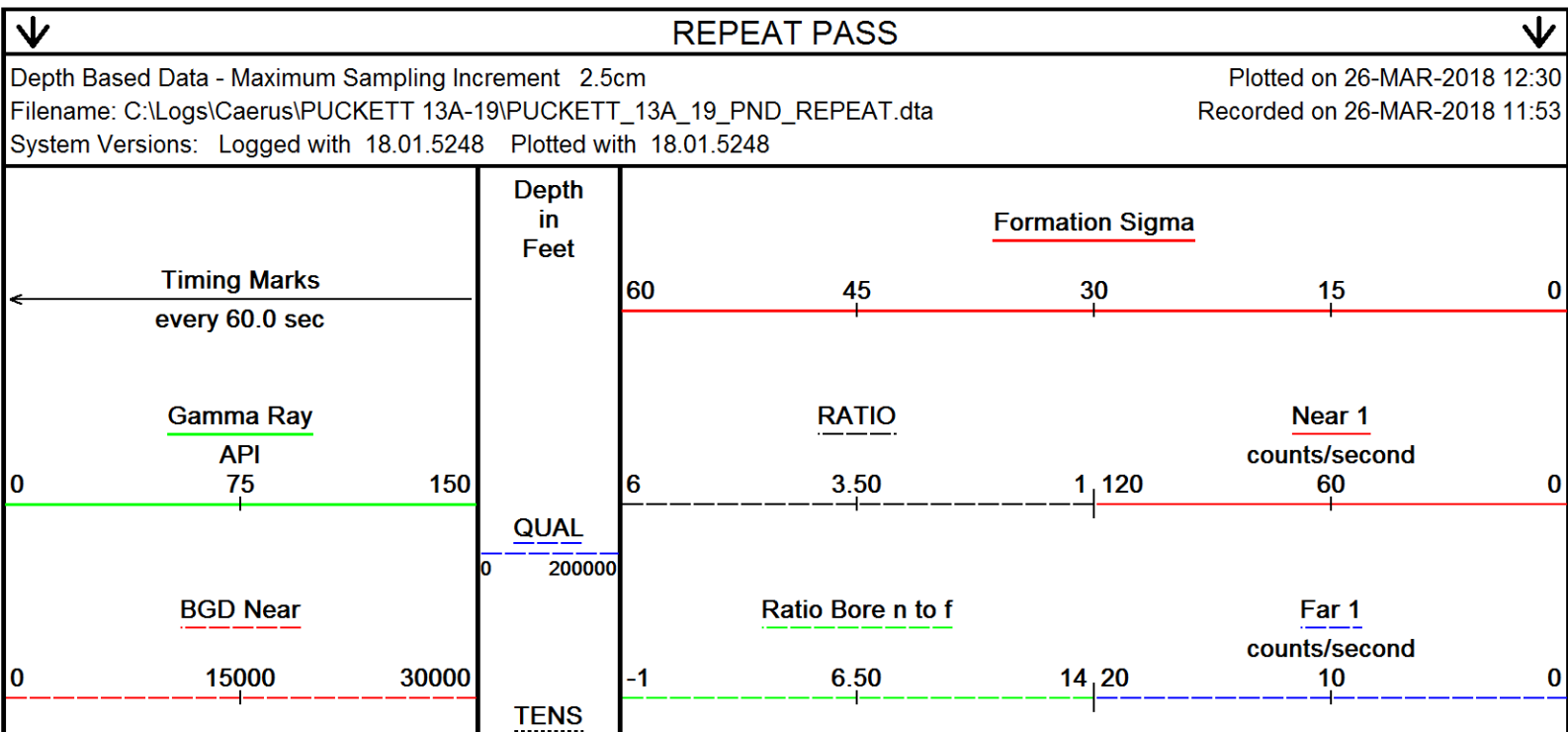




Depth Based Data - Maximum Sampling Increment 2.5cm  
Filename: C:\Logs\Caerus\PUCKETT 13A-19\PUCKETT\_13A\_19\_PND\_MAIN.dta  
System Versions: Logged with 18.01.5248 Plotted with 18.01.5248

Plotted on 26-MAR-2018 12:30  
Recorded on 26-MAR-2018 00:27

↑ MAIN PASS ↑



BGD Far

0 1500 3000

Collar Locator  
millivolts

-5000 5000

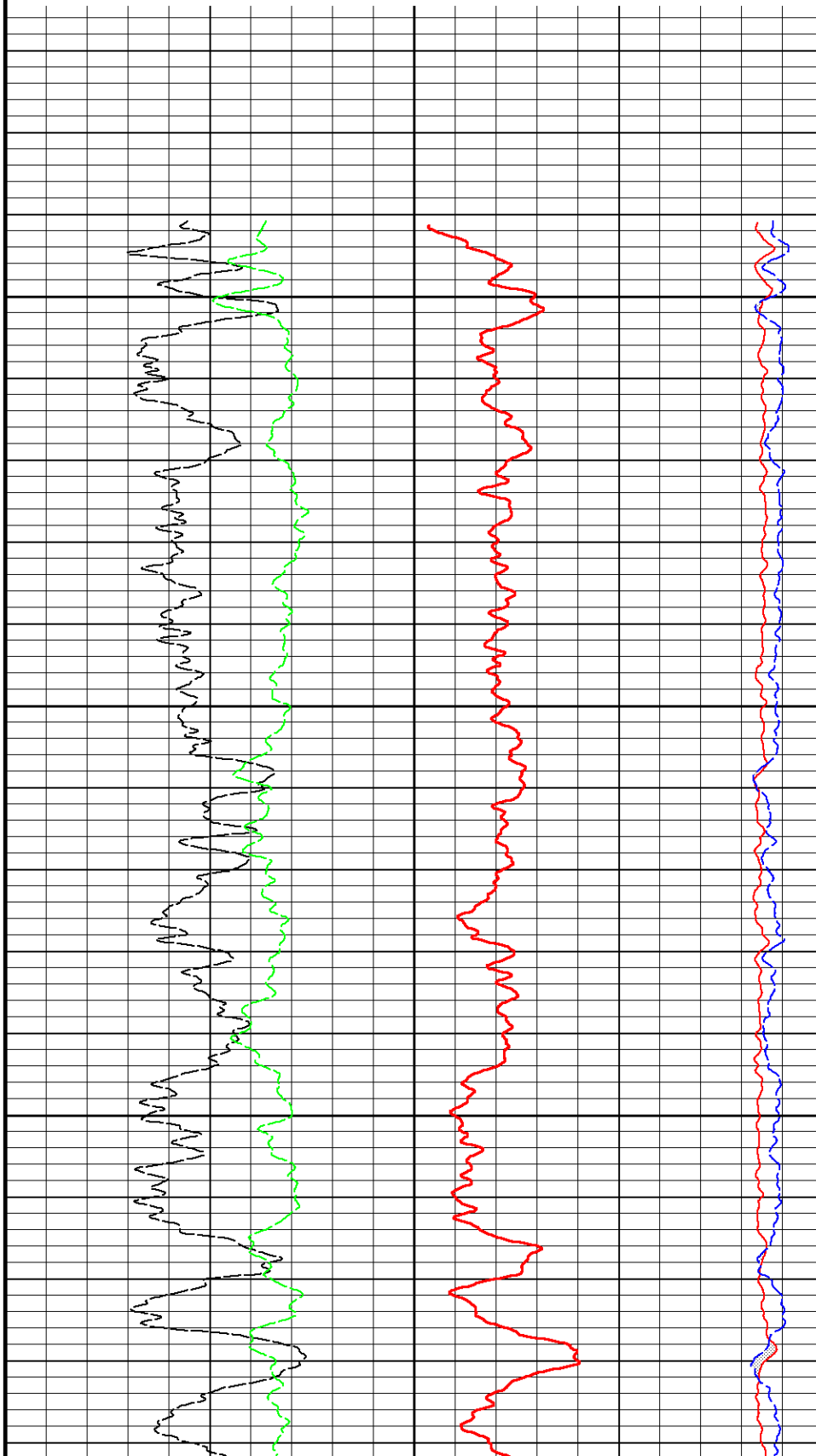
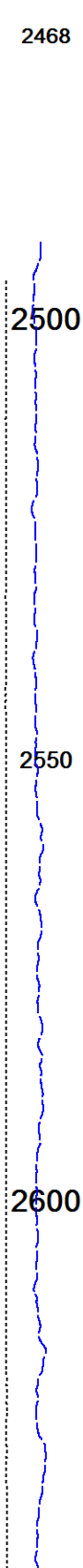
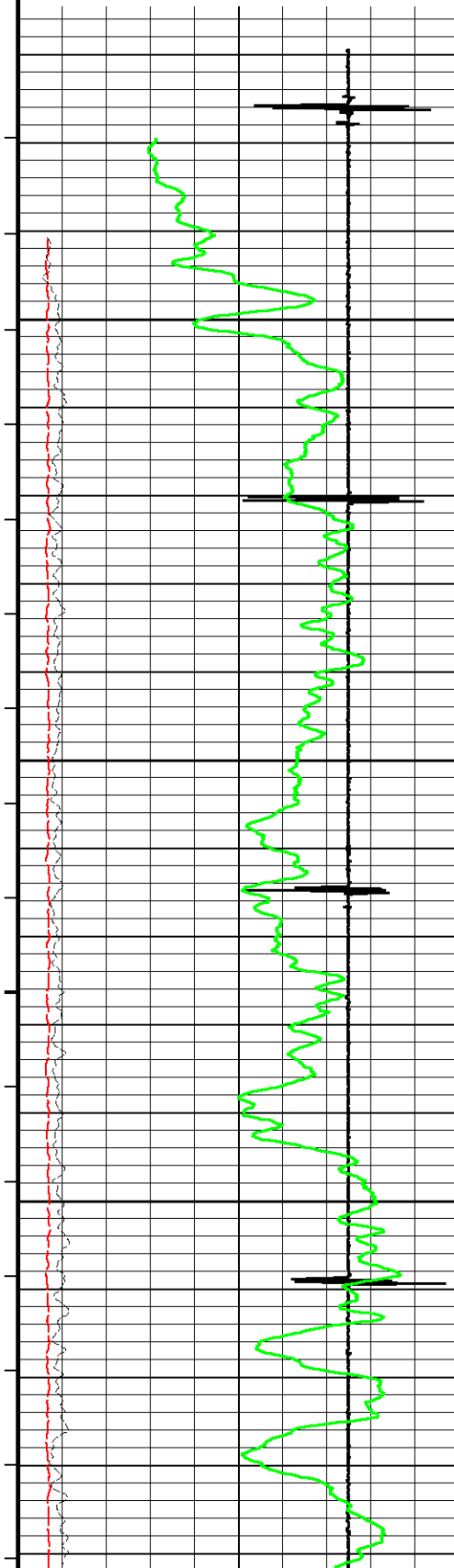
Replay  
Scale  
1:240

2468

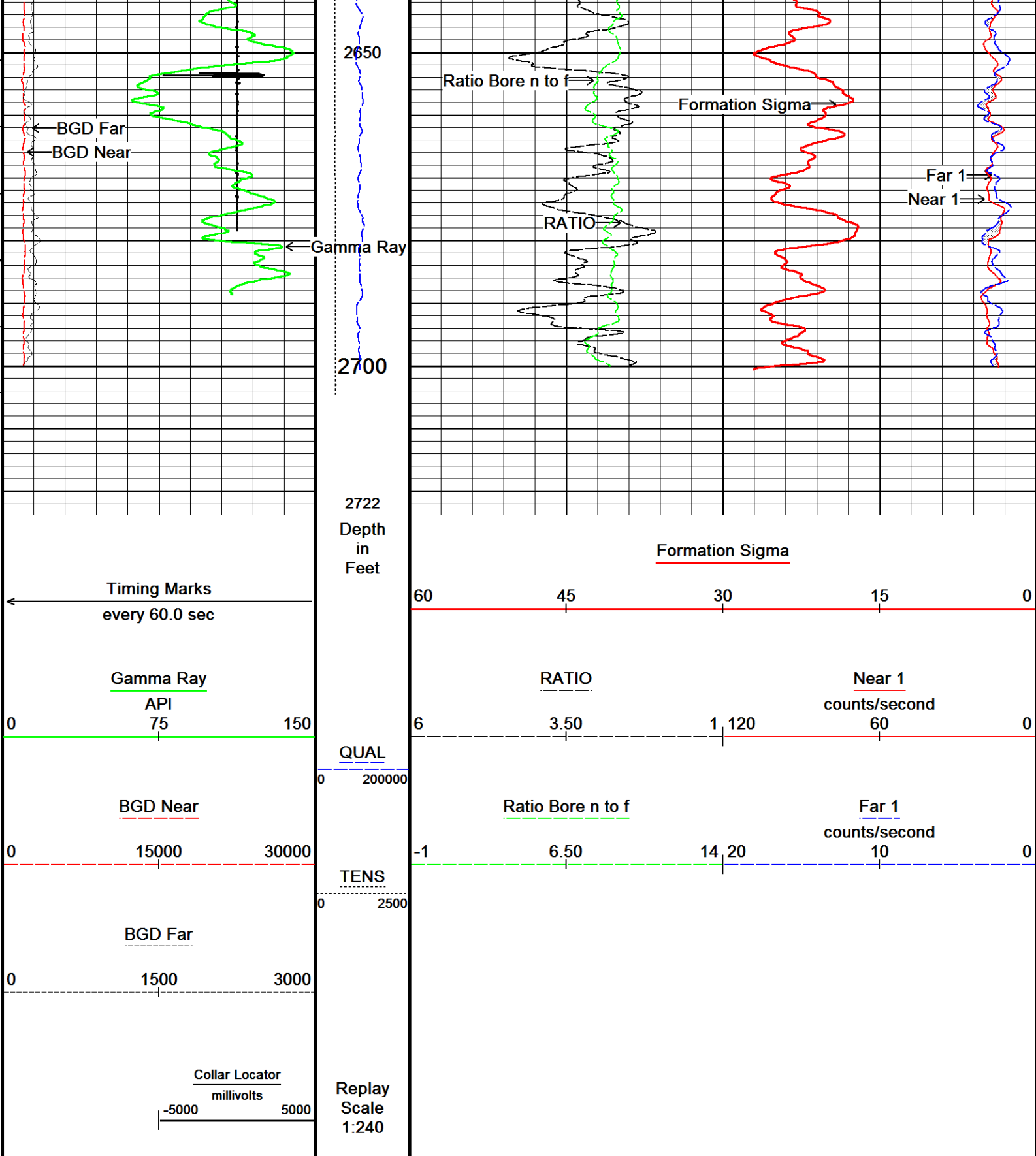
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2550

2600







Depth Based Data - Maximum Sampling Increment 2.5cm

Filename: C:\Logs\Caerus\PUCKETT 13A-19\PUCKETT\_13A\_19\_PND\_REPEAT.dta

System Versions: Logged with 18.01.5248 Plotted with 18.01.5248

Plotted on 26-MAR-2018 12:30

Recorded on 26-MAR-2018 11:53

REPEAT PASS

DOWNHOLE EQUIPMENT

C:\Logs\Caerus\PUCKETT 13A-19\PUCKETT\_13A\_19\_PND\_MAIN.dta

Mono-Cablehead  
MCH-AA 0 LG: 1.03 ft WT: 2.2 lb OD: 1.457 in

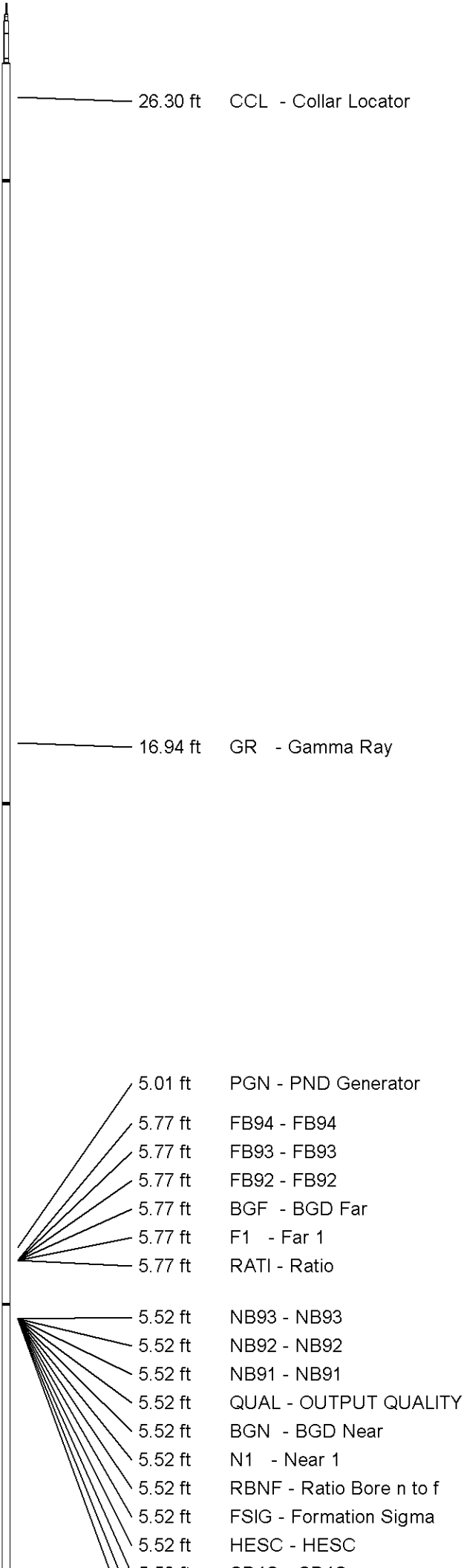
PND CCL (1.63")  
CCP-CA 118 LG: 2.07 ft WT: 0.0 lb OD: 1.693 in

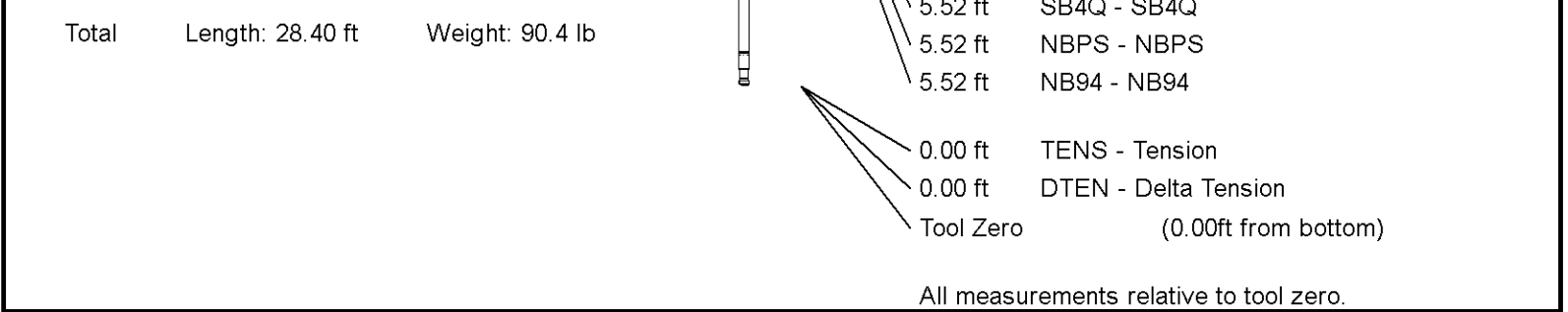
PND Processor V9.4(1.69")  
PNE-EA 134 LG: 10.94 ft WT: 39.7 lb OD: 1.693 in

PND Det. Assy V9.4 1.69"  
PDT-SA 113 LG: 8.60 ft WT: 33.1 lb OD: 1.693 in

Gen. Assy,High Reliability,V10,1.69"  
PGN-SA 123 LG: 5.33 ft WT: 13.2 lb OD: 1.693 in

PND Impact Sub(GO Pin Thread) for PGN-S  
PIS-S 0 LG: 0.43 ft WT: 2.2 lb OD: 1.693 in





SHOP AND FIELD CALIBRATIONS

C:\Logs\Caerus\PUCKETT 13A-19\PUCKETT\_13A\_19\_PND\_MAIN.dta

COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

CAERUS OIL & GAS


PUCKETT 13A-19

GRAND VALLEY

GARFIELD

USA / COLORADO

Elevation Kelly Bushing	8181	feet	Bottom Log Interval	9560.00	feet
Elevation Drill Floor	8181	feet	Depth Driller	9640.00	feet
Elevation Ground Level	8151	feet	Depth Logger	9560.00	feet



Weatherford®

PULSED NEUTRON LOG