

County: Weld

Field: Wattenberg

Loggin
Run N
Depth
Schlur
Botton
Top Ld
Casing
Casing
Bit Siz
Type F
Dens
Fluid
MUD
Sourc
RM @
RMF @
RMC
Source
RM @
Maxim
Circula
Logge
Unit N
Recor
Witnes

Schlumberger

Company: Conquest Oil Co.

Well: SWD 1-8B

Location: Wattenberg

County: Weld

State: Colorado

Platform Express

Compensated Neutron

Litho Density

Location: Sec. 8 T4N R64W

Well: SWD 1-8B

Company: Conquest Oil Co.

LOCATION

Sec. 8 T4N R64W

SHL 423' FSL / 414' FEL

Lat. 40.32083 / Long. 104.56654

Permanent Datum: GROUND LEVEL

Log Measured From: Kelly Bushing

Drilling Measured From: Kelly Bushing

Elev.: K.B. 4722 ft

G.L. 4710 ft

D.F. 4721 ft

Elev.: 4710 ft

12.0 ft above Perm. Datum

Logging Date	9-Jan-2009	API Serial No. 05-123-29536-0C	Section 8	Township 4N	Range 64W
Run Number	1				
Depth Driller	10000 ft				
Schlumberger Depth	10005 ft				
Log Interval	9997 ft				
Top Log Interval	617 ft				
Casing Driller Size @ Depth	8.675 in @ 600 ft				
Casing Schlumberger	617 ft				
Bit Size	7.875 in				
Type Fluid In Hole	KCL Polymer				
Density	9.3 lbm/gal	65 s			
Fluid Loss	PH	11.5			
Source Of Sample	AIT mud Sensor				
RM @ Measured Temperature	0.155 ohm.m @ 238 degF				
RMF @ Measured Temperature	0.124 ohm.m @ 238 degF				
RMC @ Measured Temperature	0.186 ohm.m @ 238 degF				
Source RMF	Calculated	Calculated			
RM @ MRT	@	@			
Maximum Recorded Temperatures					
Circulation Stopped	9-Jan-2009	10:15			
Logger On Bottom	9-Jan-2009				
Unit Number	3137	Fort Morgan			
Recorded By	Colby Horton				
Witnessed By	Phillip Wilcox & Ed Pitcher				

Logging Date		Run 1	Run 2	Run 3
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth	@			@
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
Density				
Fluid Loss	PH			
Source Of Sample				
RM @ Measured Temperature	@			@
RMF @ Measured Temperature	@			@
RMC @ Measured Temperature	@			@
Source RMF				
RM @ MRT	@		@	@
Maximum Recorded Temperatures				
Circulation Stopped				
Logger On Bottom				
Unit Number				
Recorded By				
Witnessed By				

Date Created: 9-JAN-2009 21:04:07

Logging Cable

Type:	7-39P-LXS
Serial Number:	4217
Length:	15100.00 FT
Conveyance Method:	Wireline
Rig Type:	LAND

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 FT
Rig Up Length At Bottom:	0.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	8.00 FT
Tool Zero Check At Surface:	0.00 FT

1. All Schlumberger depth policy procedures applied
2. This is the primary depth reference
- 3.
- 4.
- 5.
- 6.

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Rmf and Rmc calulated using Gen-7

REMARKS: RUN NUMBER 2

Rmf and Rmc calulated using Gen-7

Rig: Ensign 17					
Crew: Derrick Hunter and Tyson Kral					
RUN 1			RUN 2		
SERVICE ORDER #:		AU8F-00068	SERVICE ORDER #:		
PROGRAM VERSION:		15C0-309	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT	
WITM (CTS)-A	NCS-VB
GSR-U/Y	
NCT-B	
CNB-AB	

DOWNHOLE EQUIPMENT	
LEH-QT	40.6
LEH-QT	
HGNS HTEM	
HMCA	
TelStatus	
CTEM	37.6
HILTB-CTS	37.6
HGNS Gamm	36.9
HGNSC-B	
HMCA	
TCC-B	
HGNH	
NLS-KL	
NSR-F 2539	
HACCZ 430	
HCNT	
HGR	
HRCC-B	
HRMS-B	
HRGD-B	
GLS-VJ 5363	
MCFL Device	
HILT Nucl. LS 42767	
HILT Nucl. SS 42767	
HILT Nucl. BS 42767	
AIT-H	
AHIS-BA 397	
AHRM-A	
NPV-N	
HGNS Neut	31.1
HGNS Neut	30.6
HGNS sens	28.2
HRCC cart	24.2
MCFL	18.8
HILT cali	18.3
HRDD-LS	
HRDD-SS	
HRDD-BS	17.9

Induction
Temperatu
Power Sup

7.9

SP SENSOR
HTEN HMAS
Accelerom HV
Mud Resis
Tension

0.1

0.0

TOOL ZERO

MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN POROSITY LOG 5" = 100'

MAXIS Field Log

Input DLIS Files

HILTC .019

FN:13

09-Jan-2009 20:03

10028.0 FT

497.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 3508.76 ft3

Cement Volume = 1959.91 ft3 (assuming 5.50 in casing O.D.)

Computed from 10005.0 ft to 619.0 ft

OP System Version: 15C0-309

MCM

HILTC

15C0-309

PIP SUMMARY

└ Integrated Hole Volume Minor Pip Every 10 F3

└ Integrated Hole Volume Major Pip Every 100 F3

└ Integrated Cement Volume Minor Pip Every 10 F3

└ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

NPOR Backup

Gas Effect

Caliper (HCAL)
(IN)

Stuck
Stretch
(STIT)
(F) 50

Std. Res. Formation Pe (PEFZ)
(-----) 10

Tension (TENS)
(LBF)

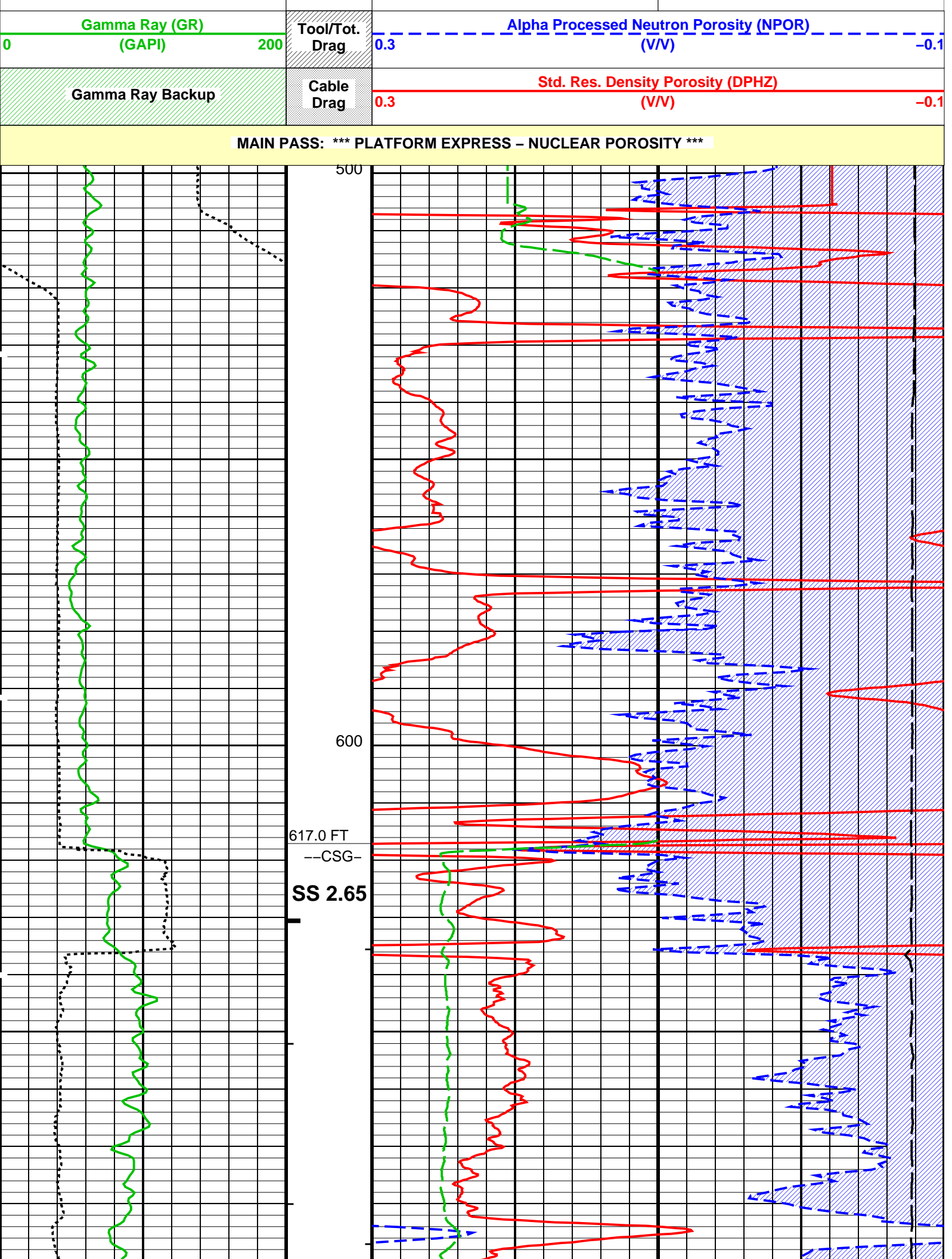
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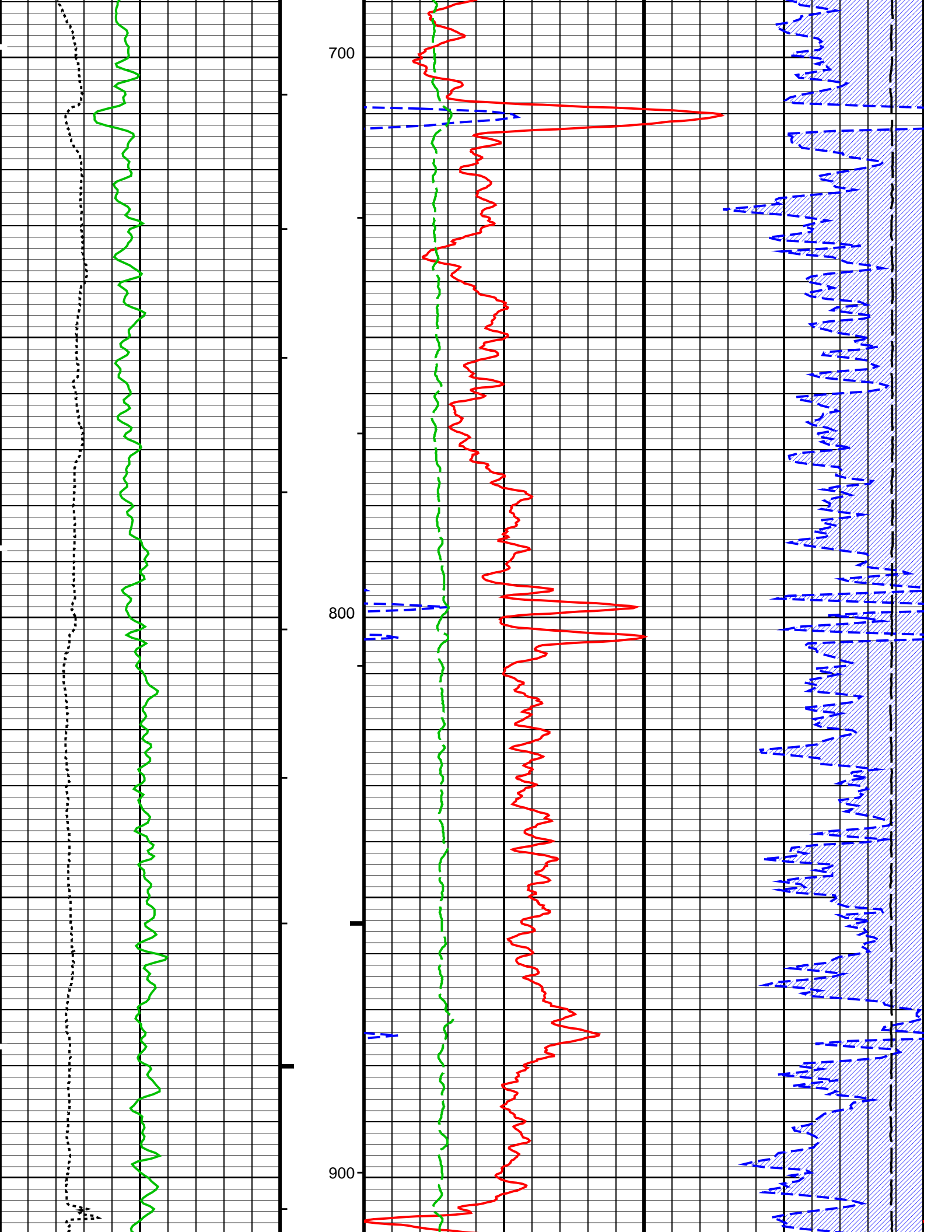
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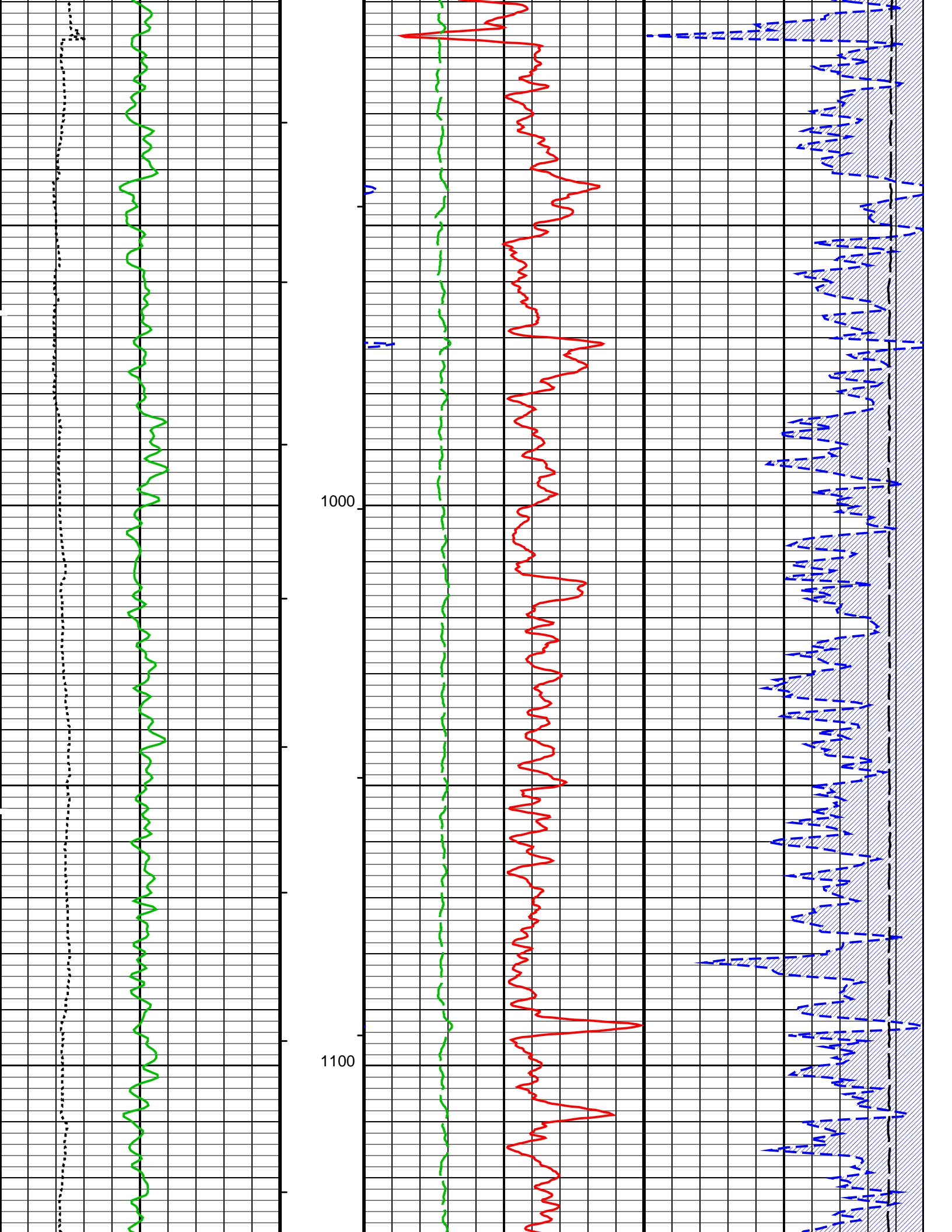
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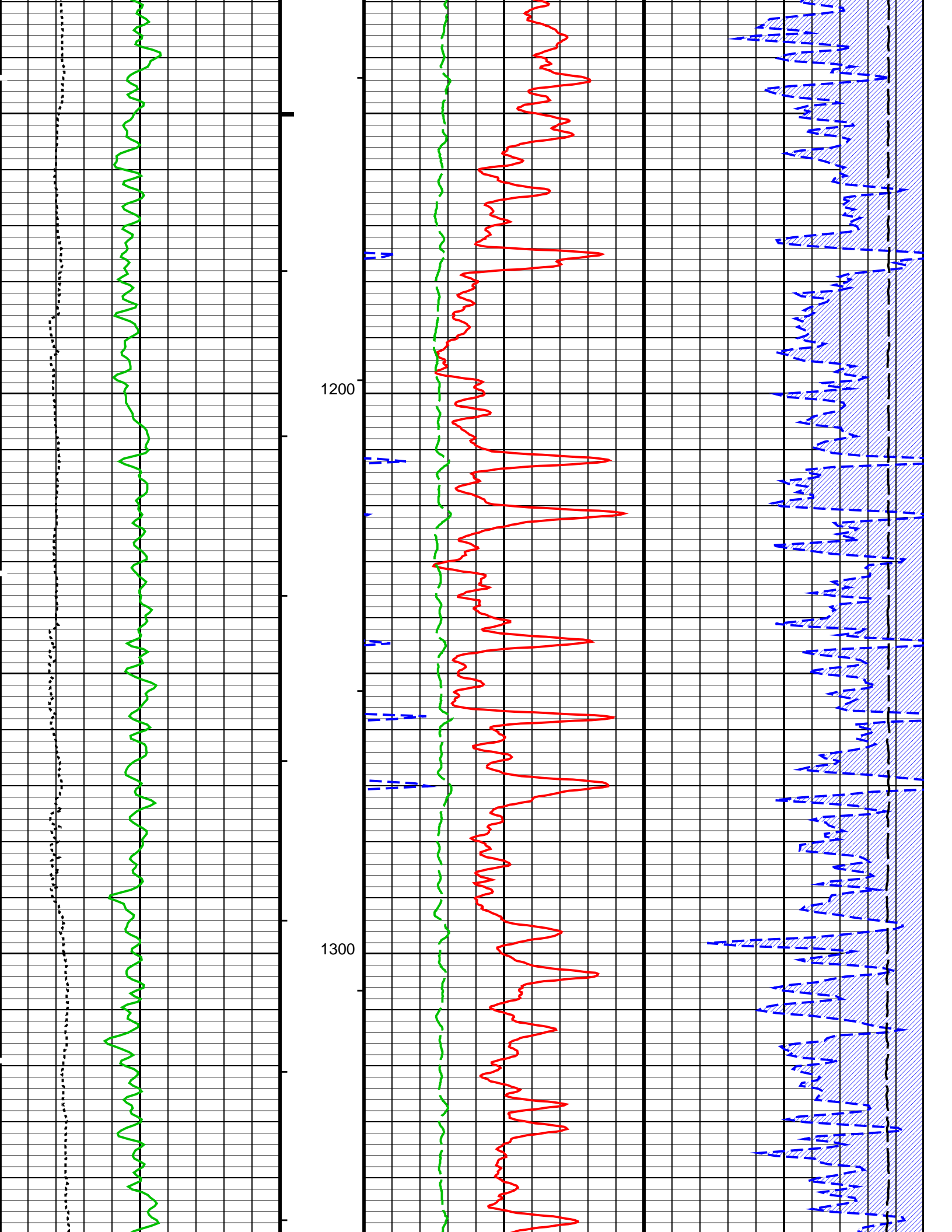
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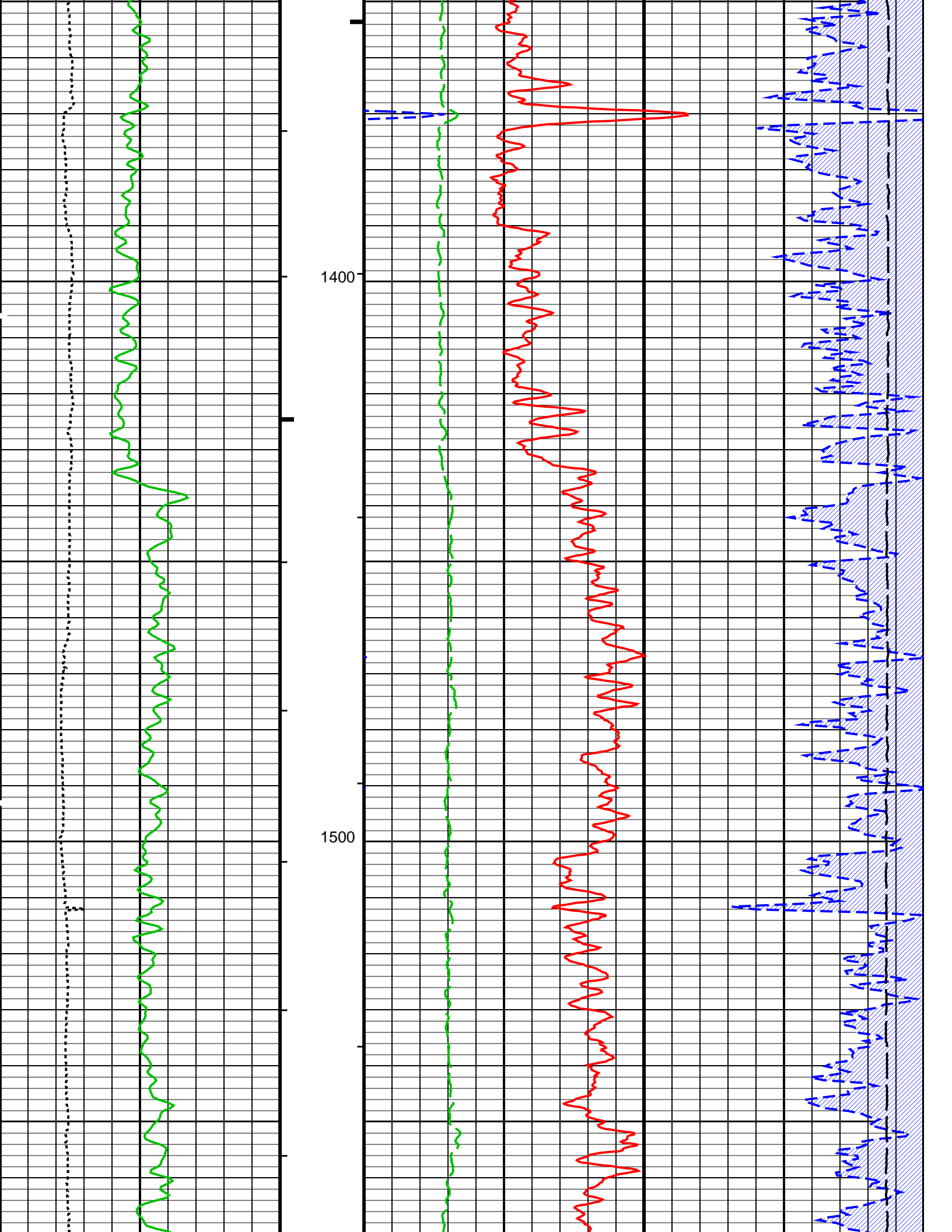
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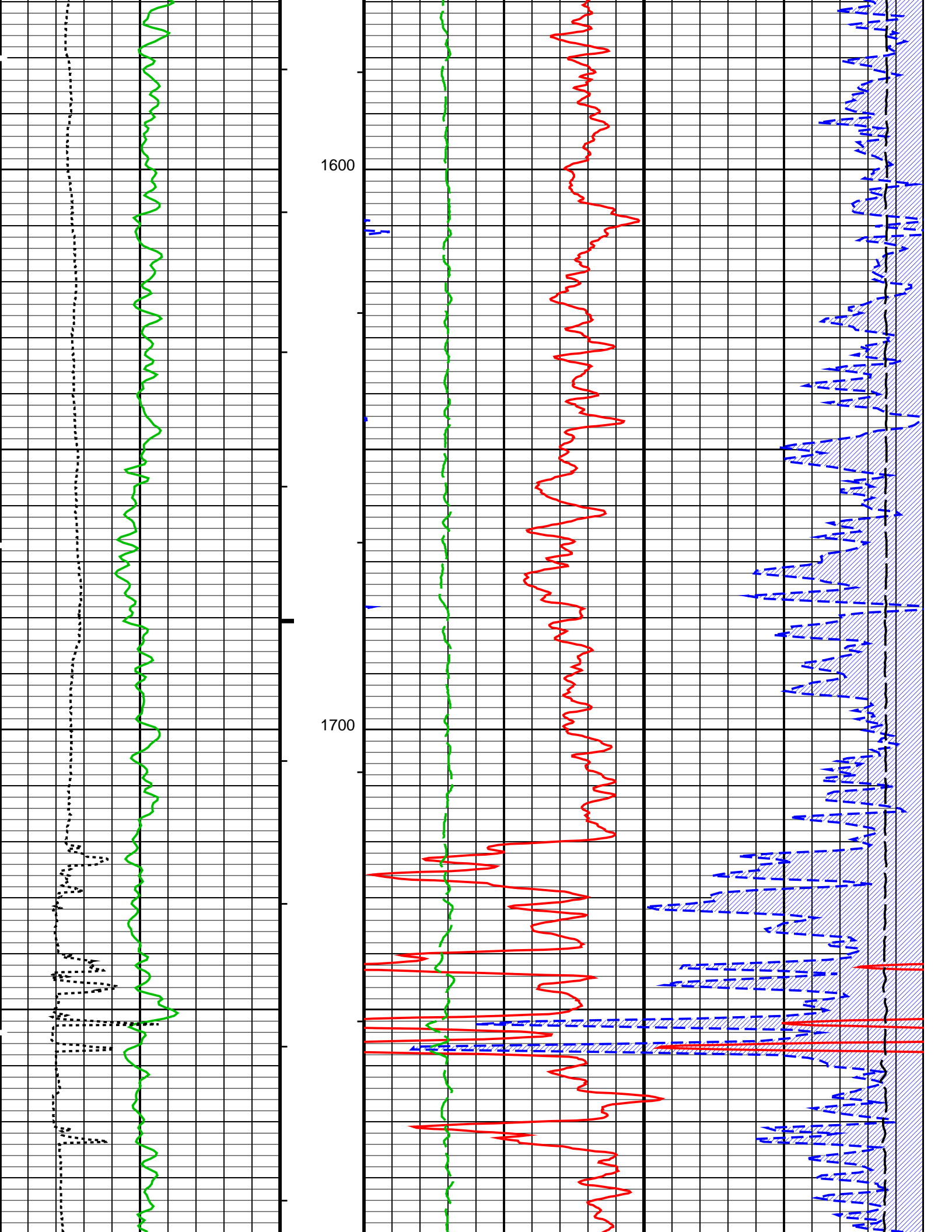


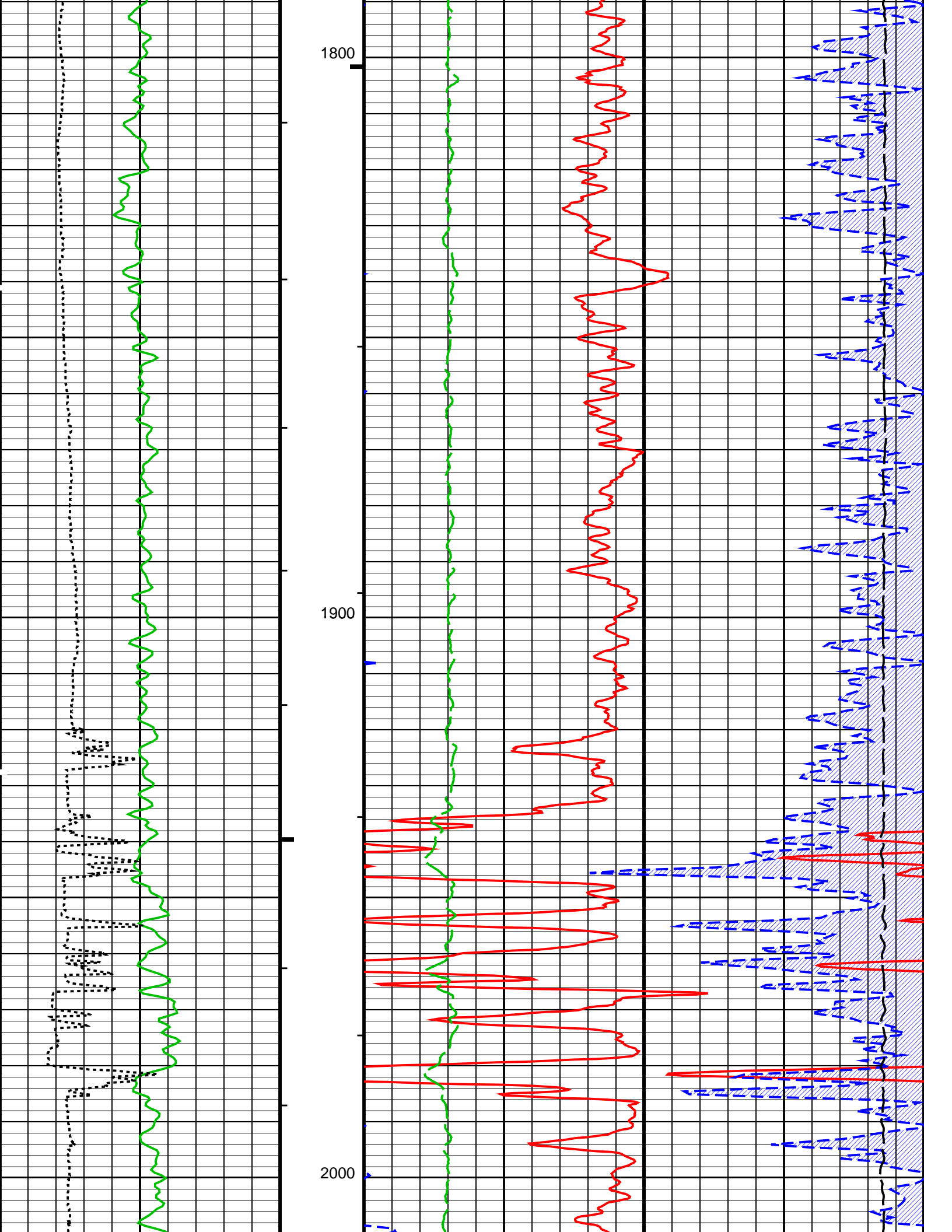


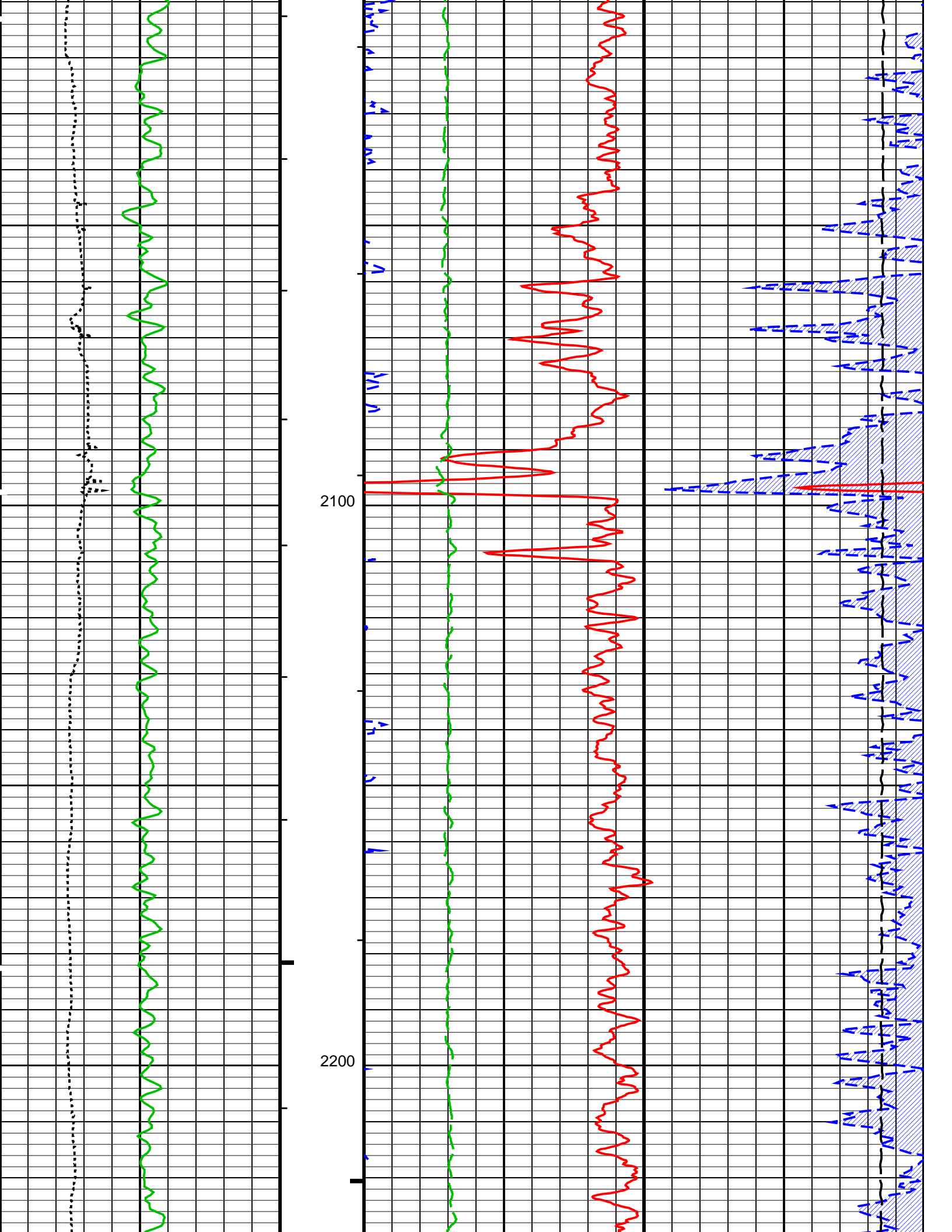


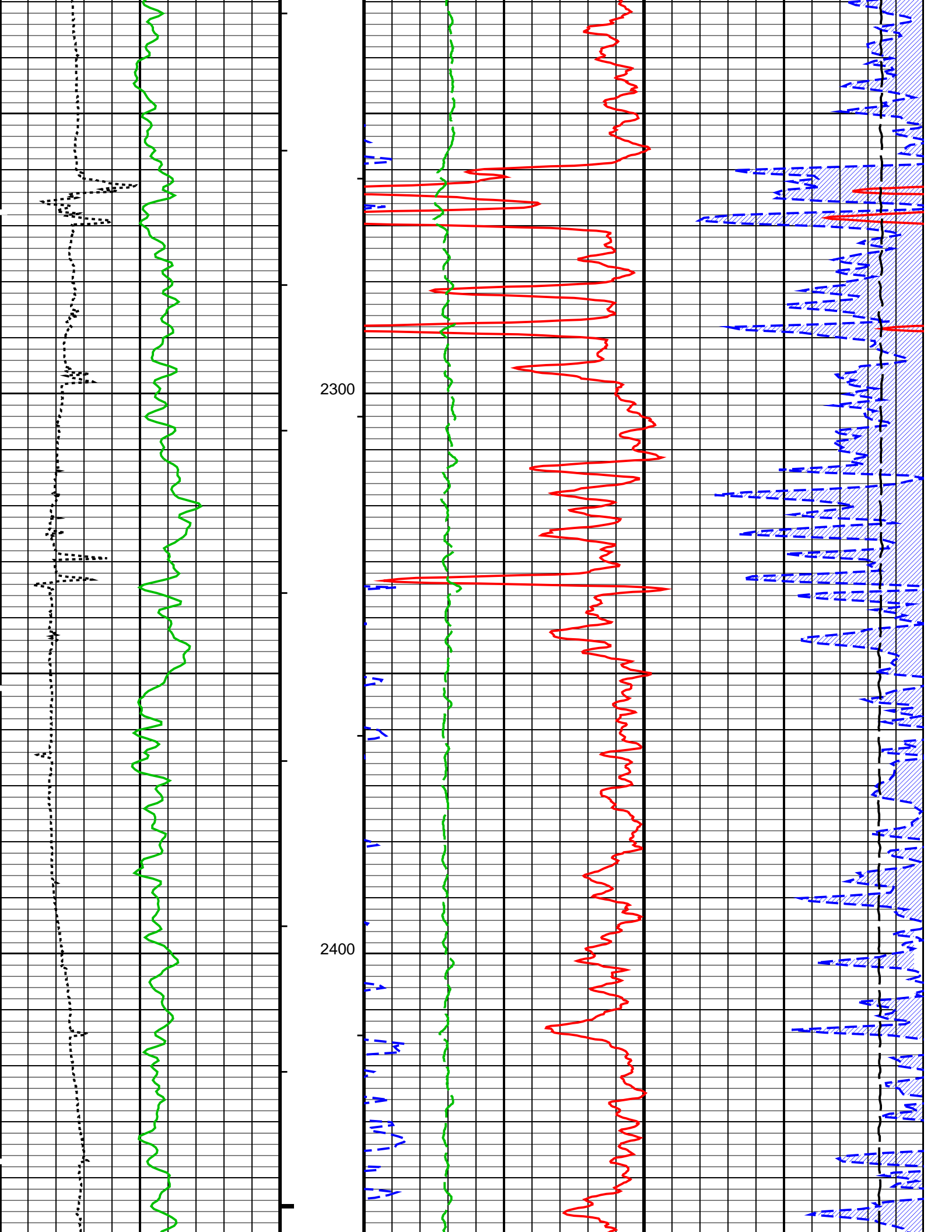


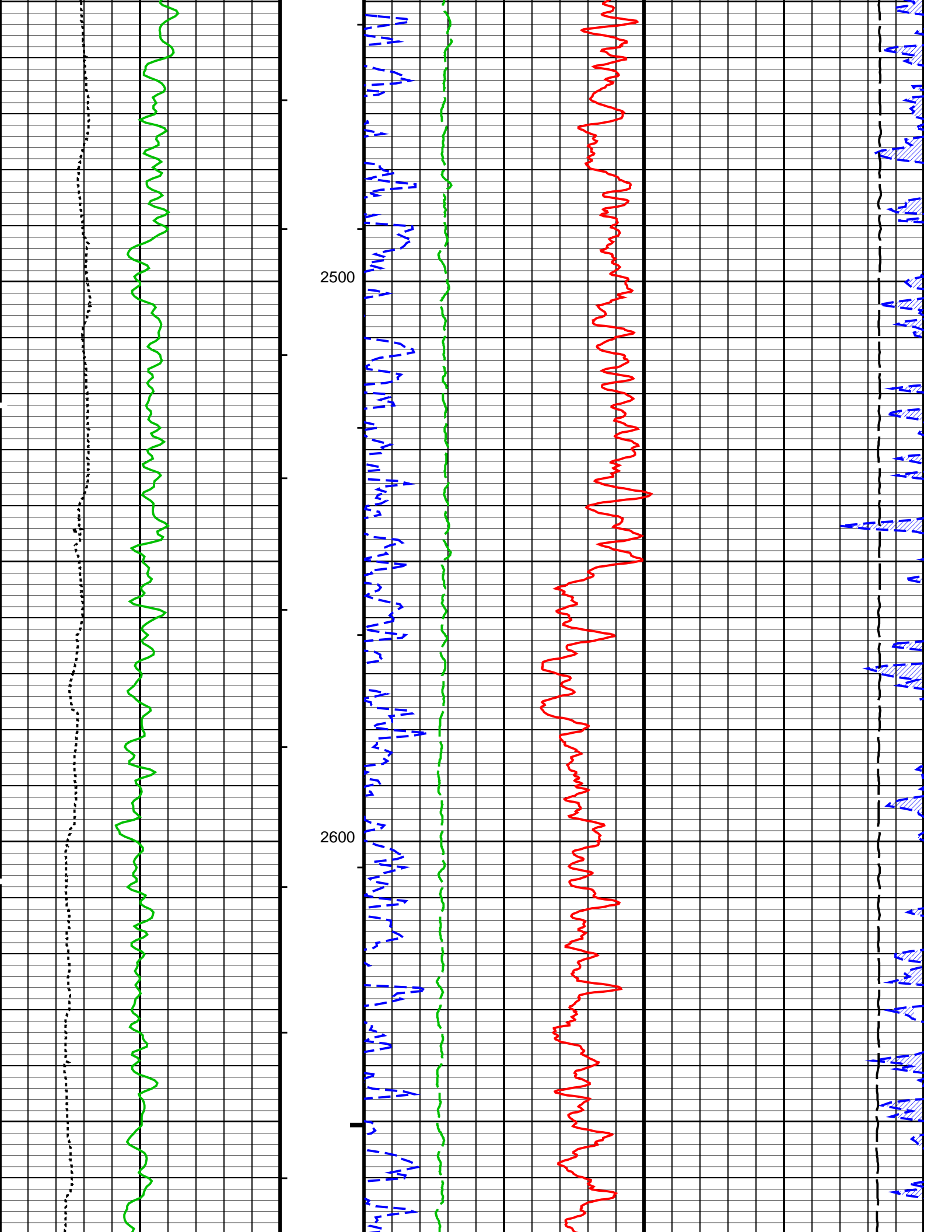


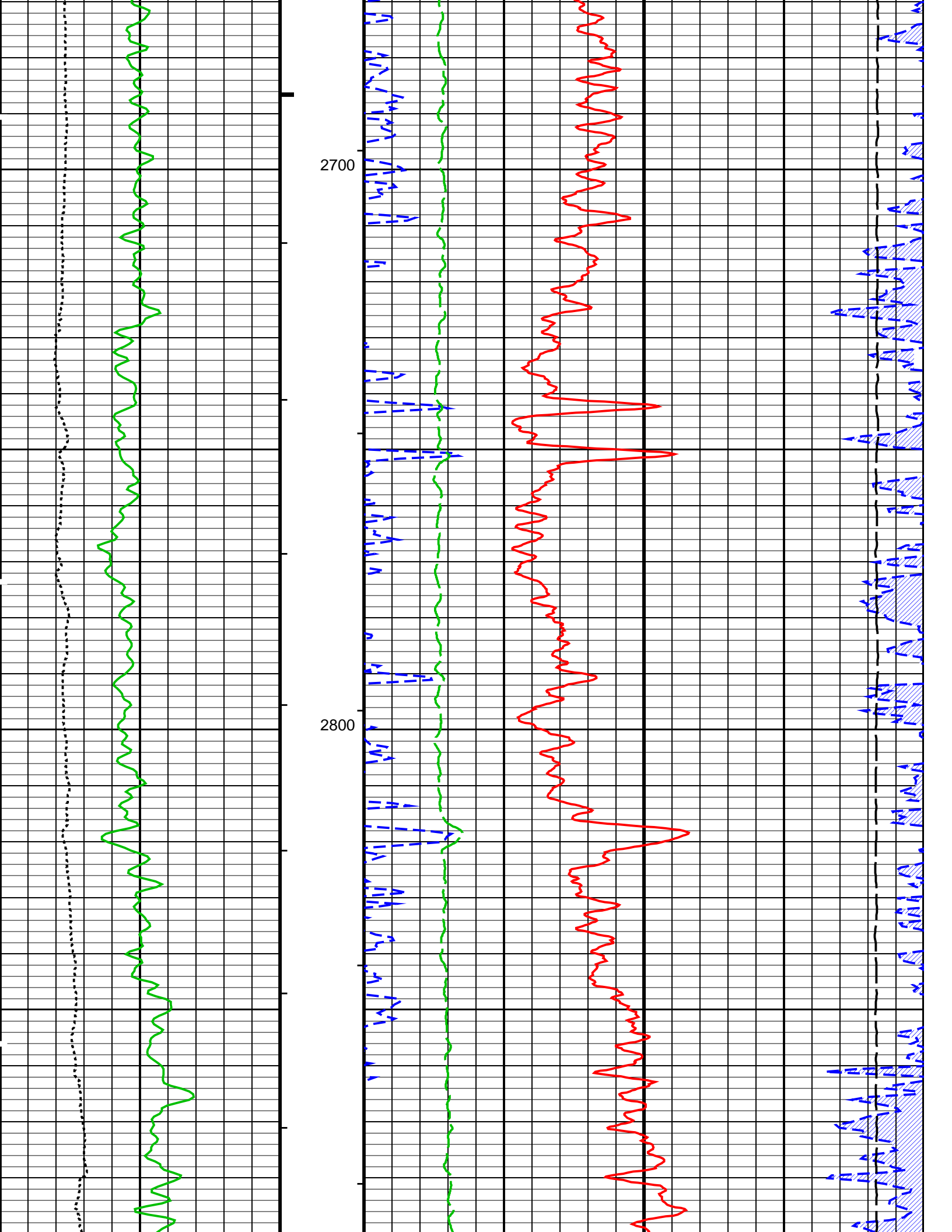


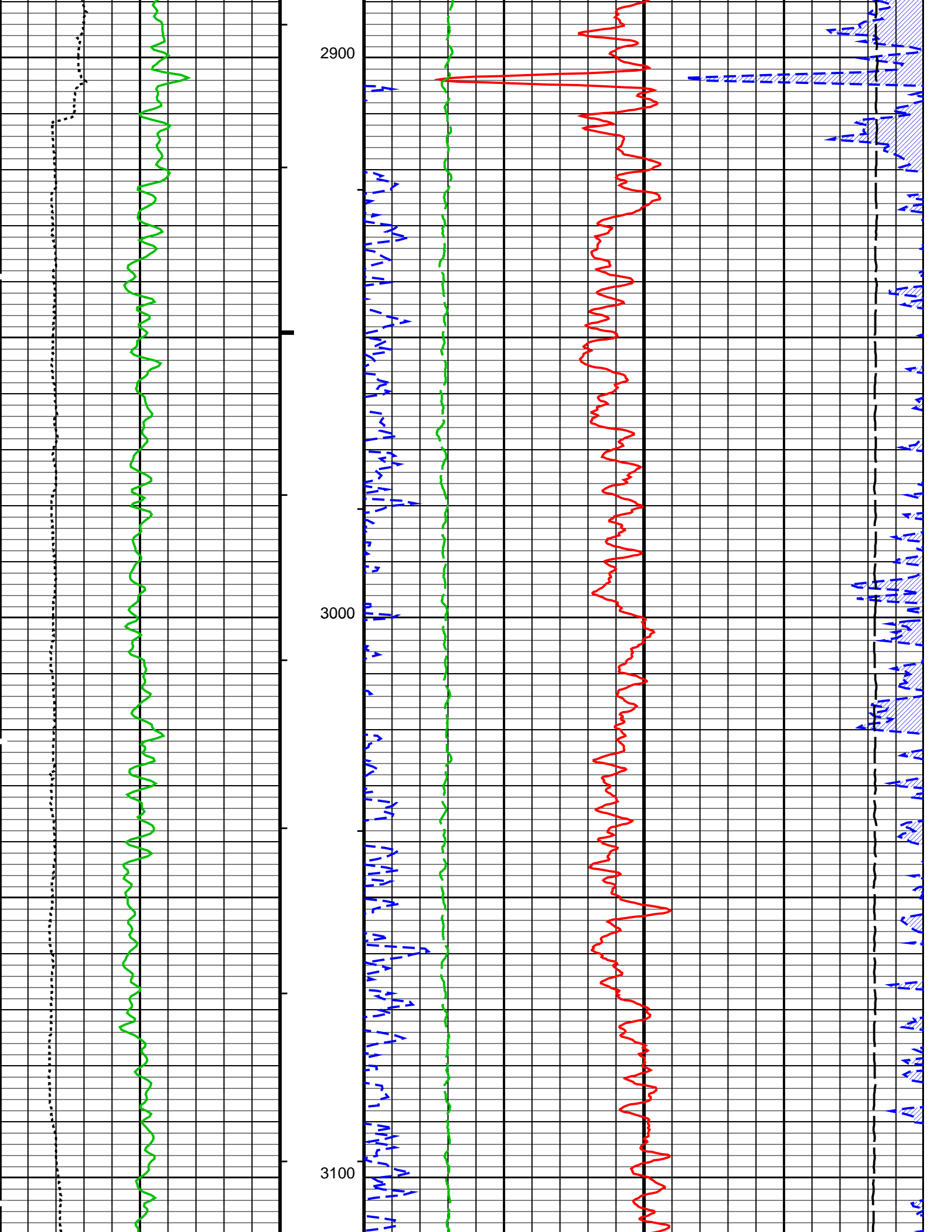


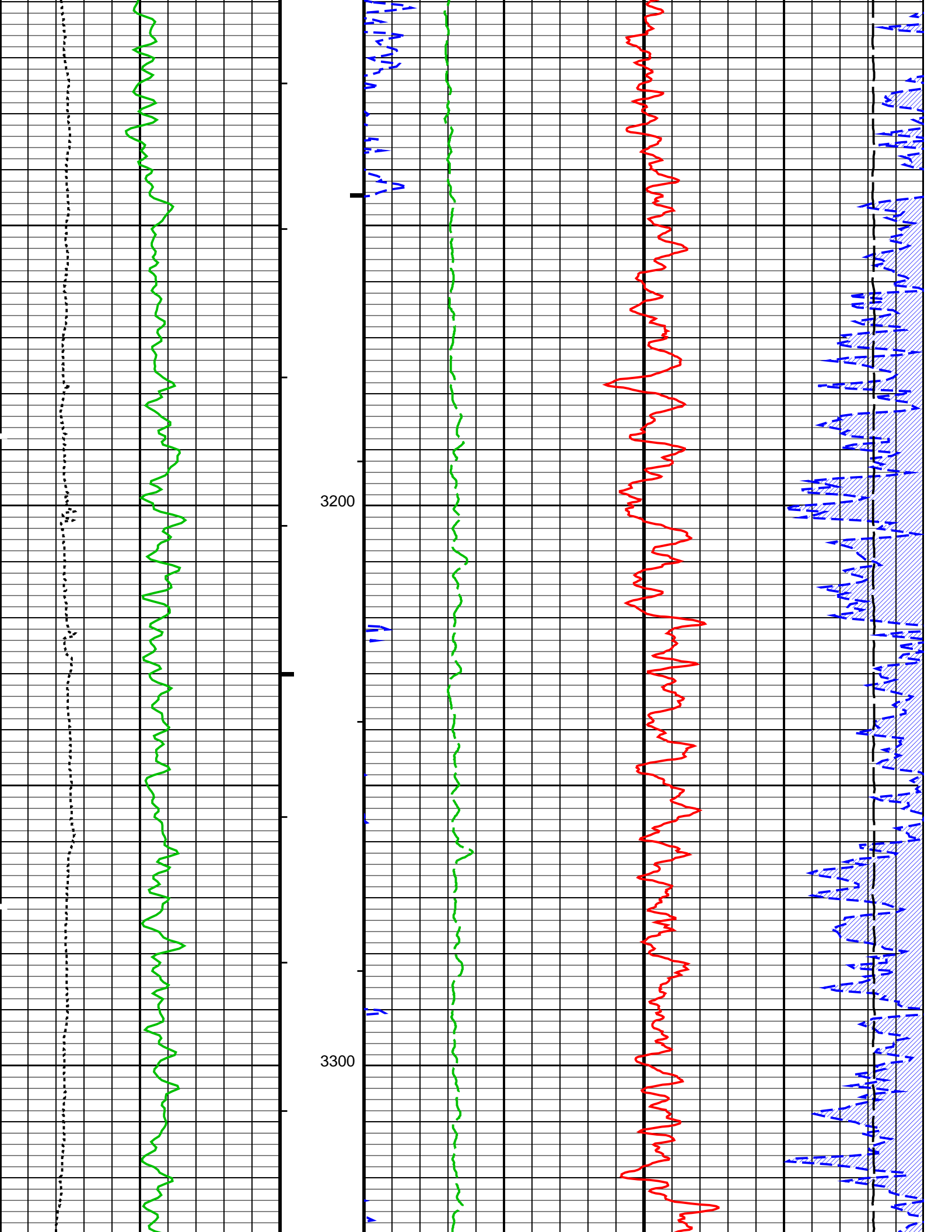


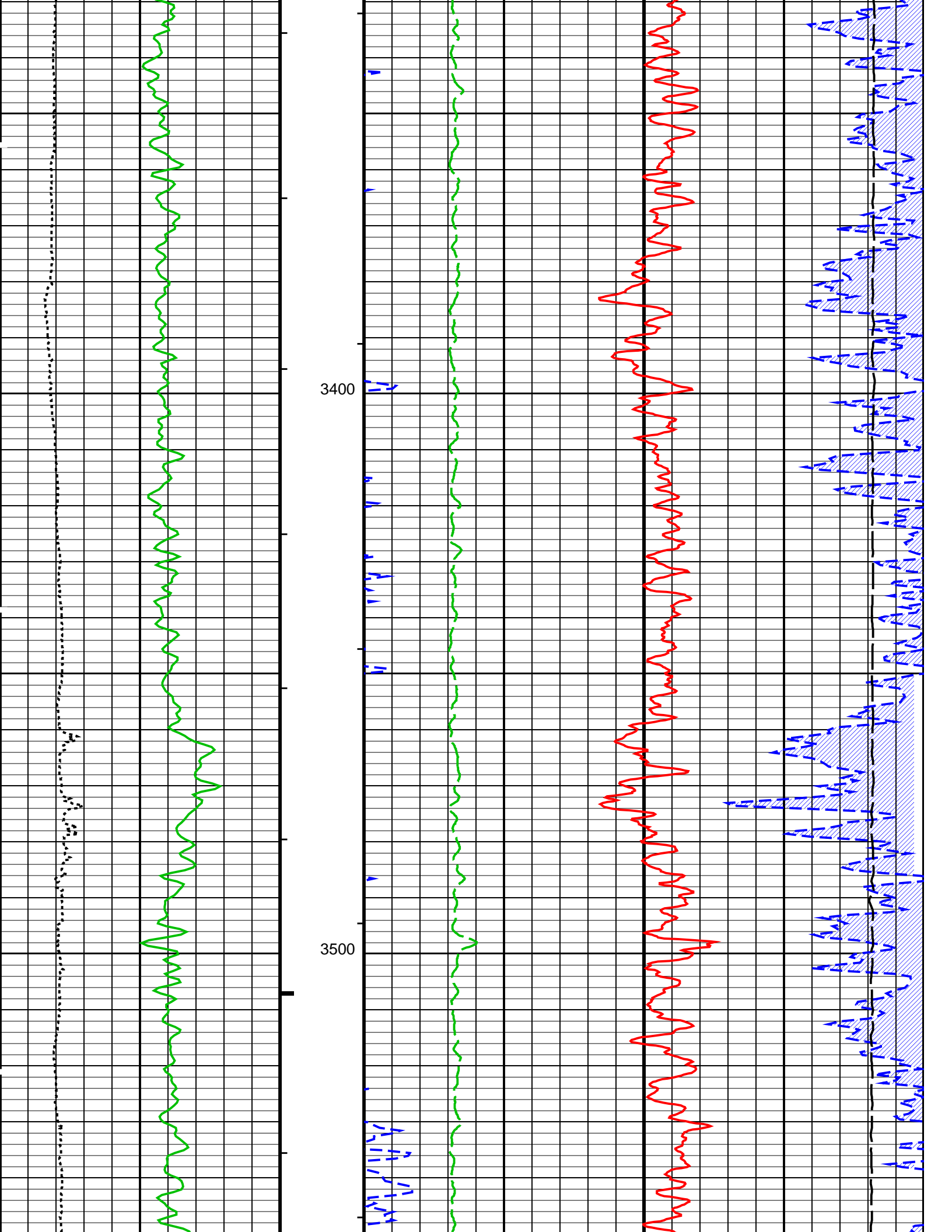


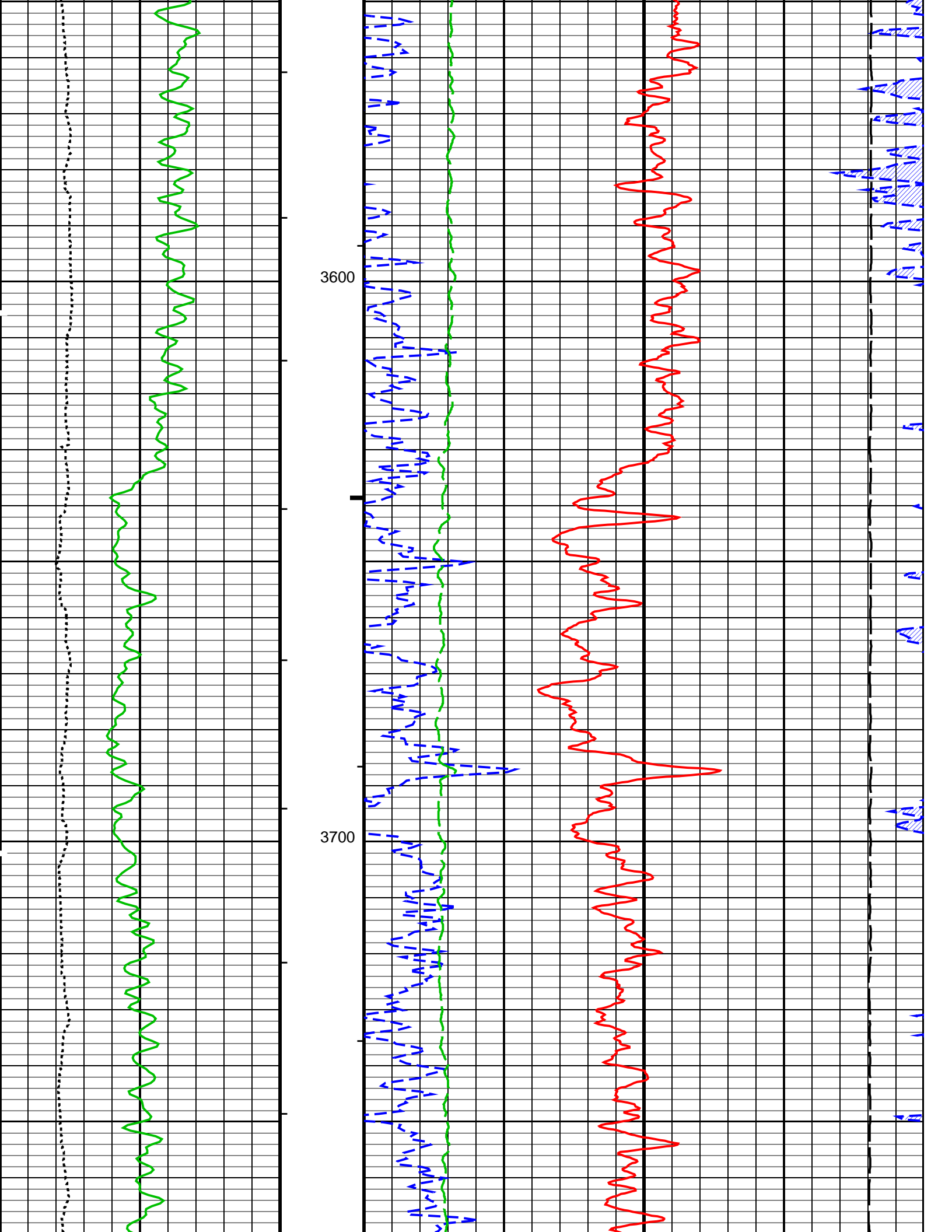


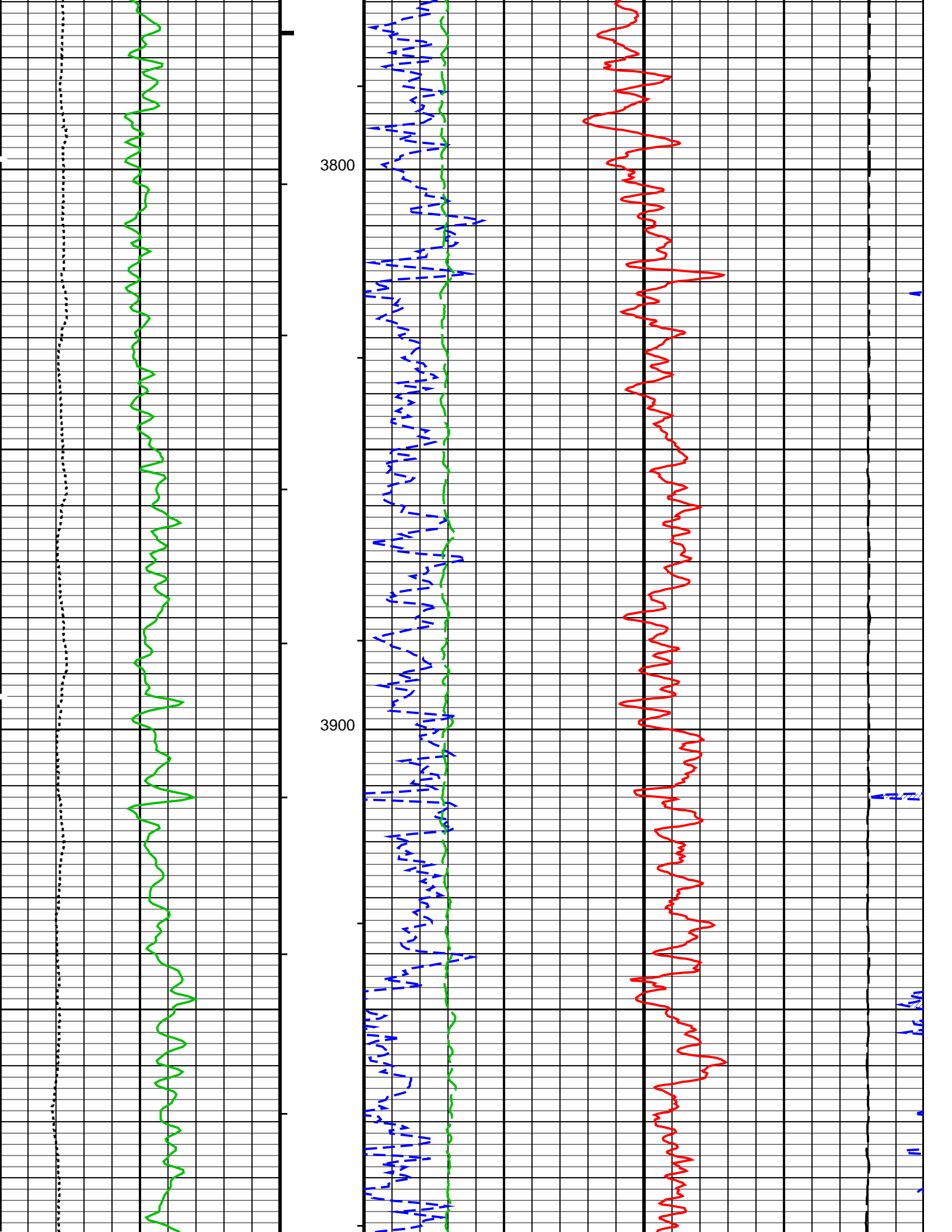


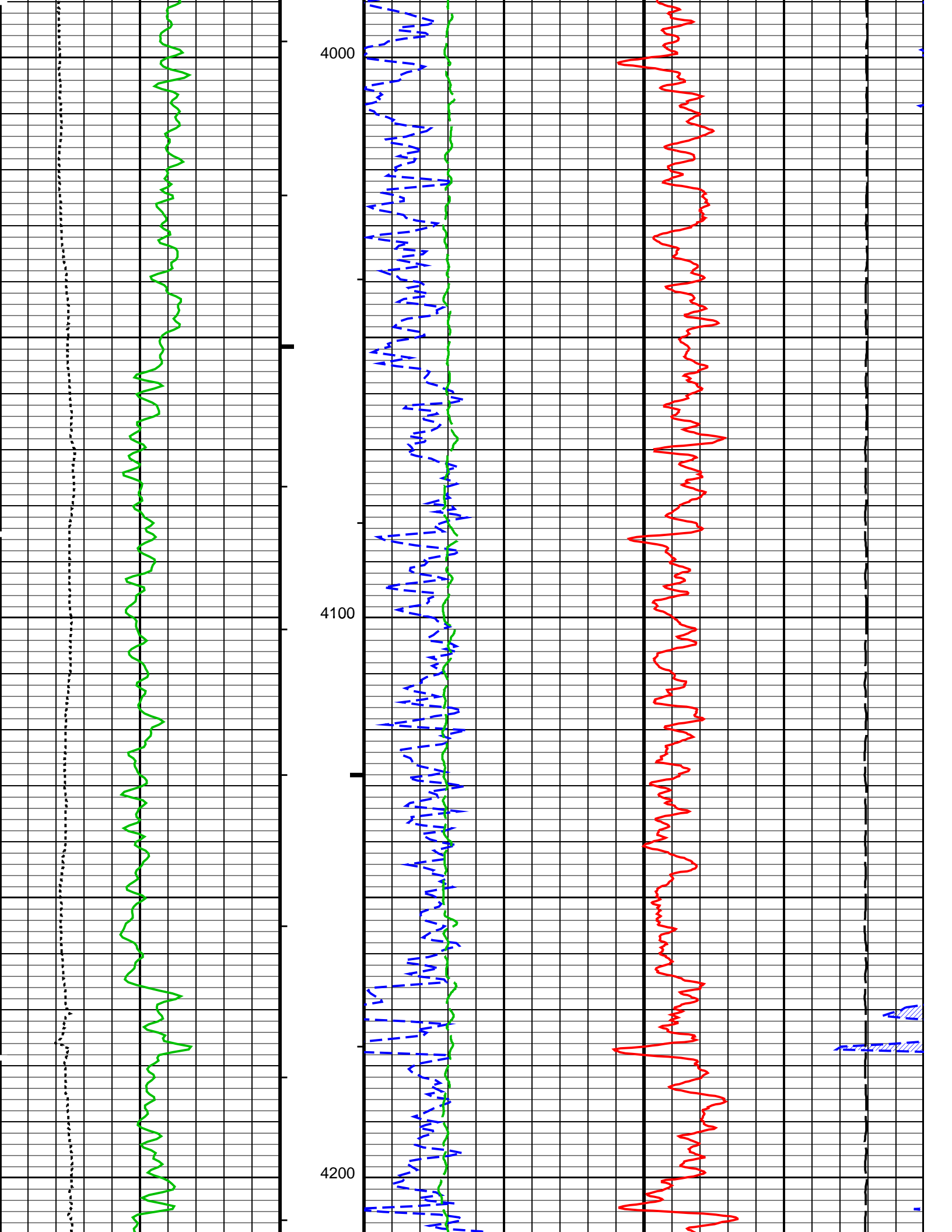


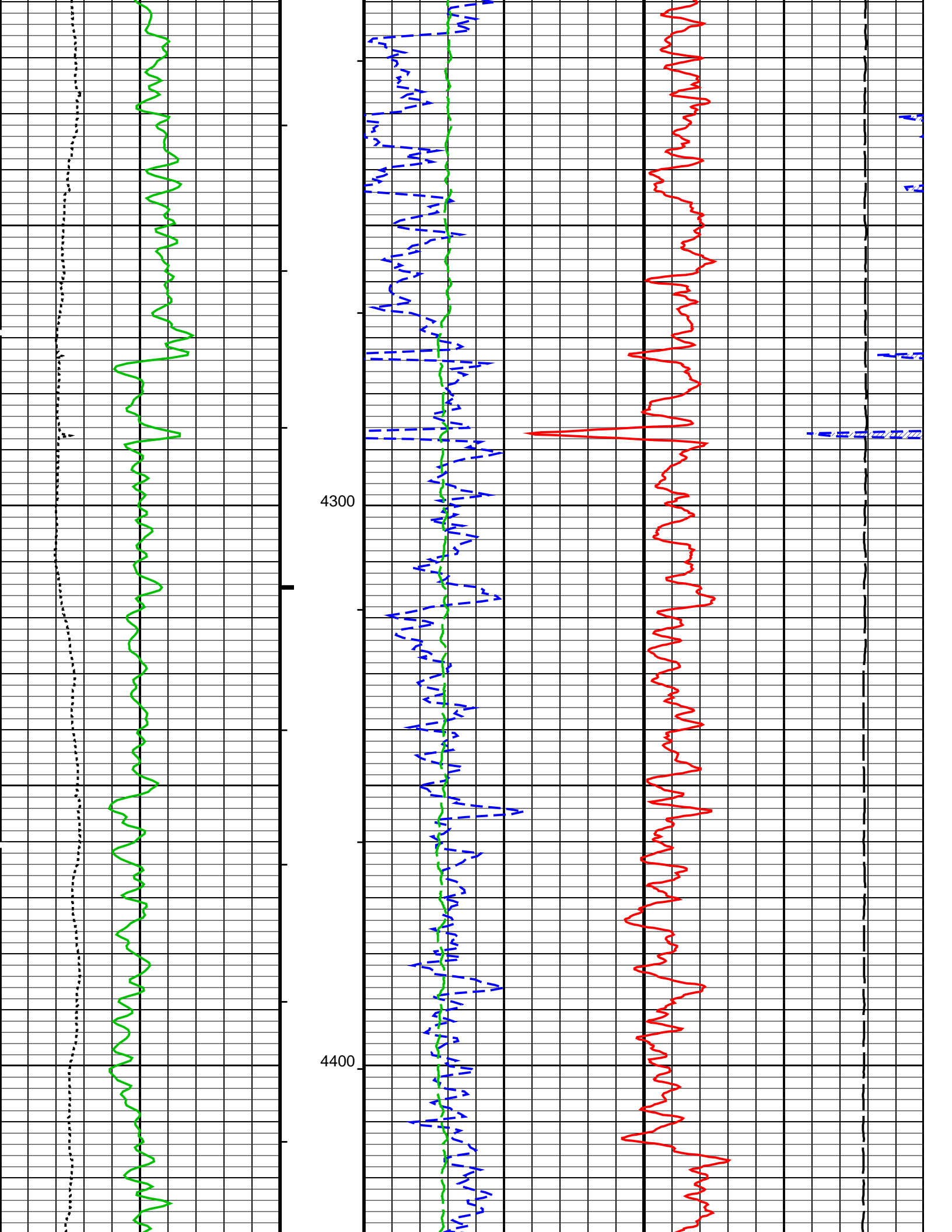


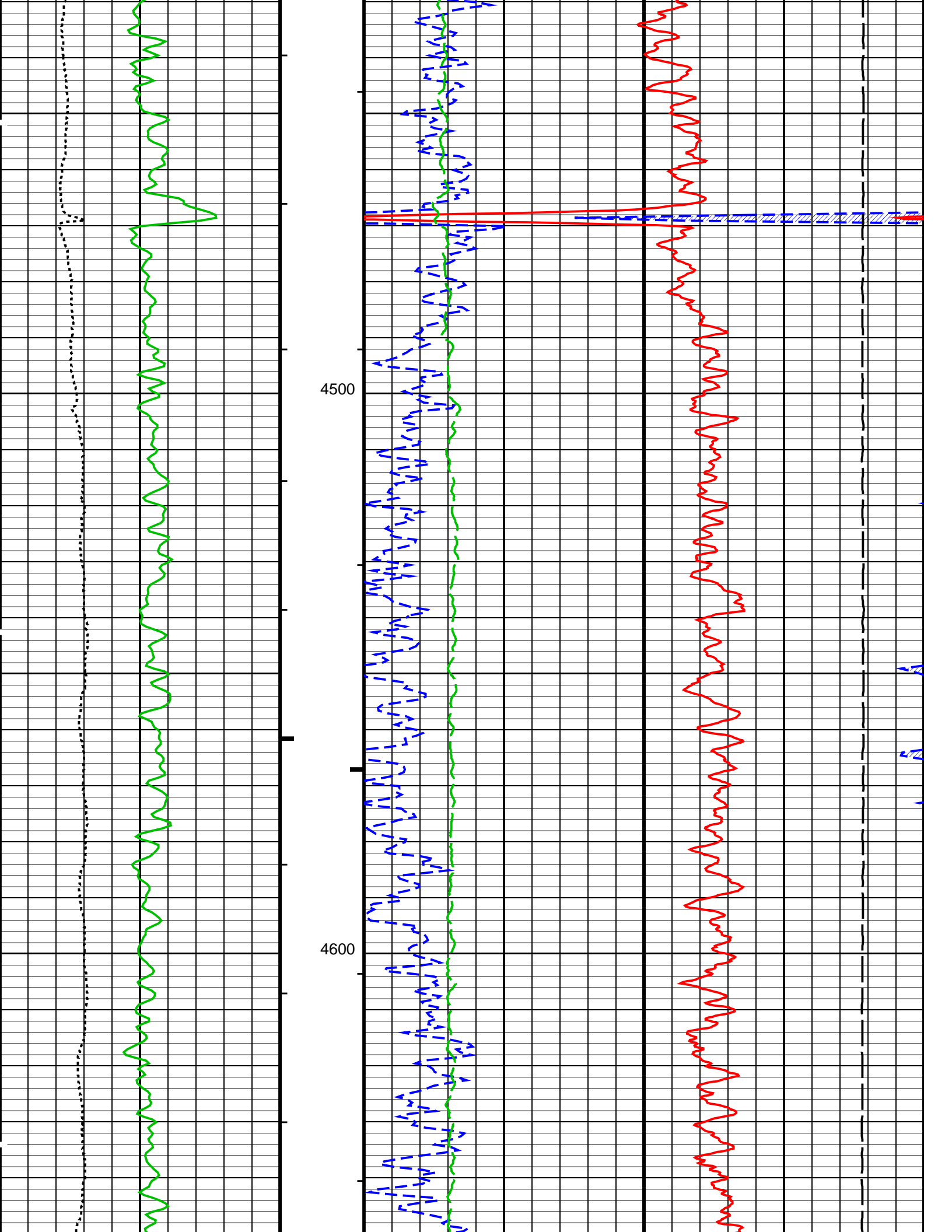


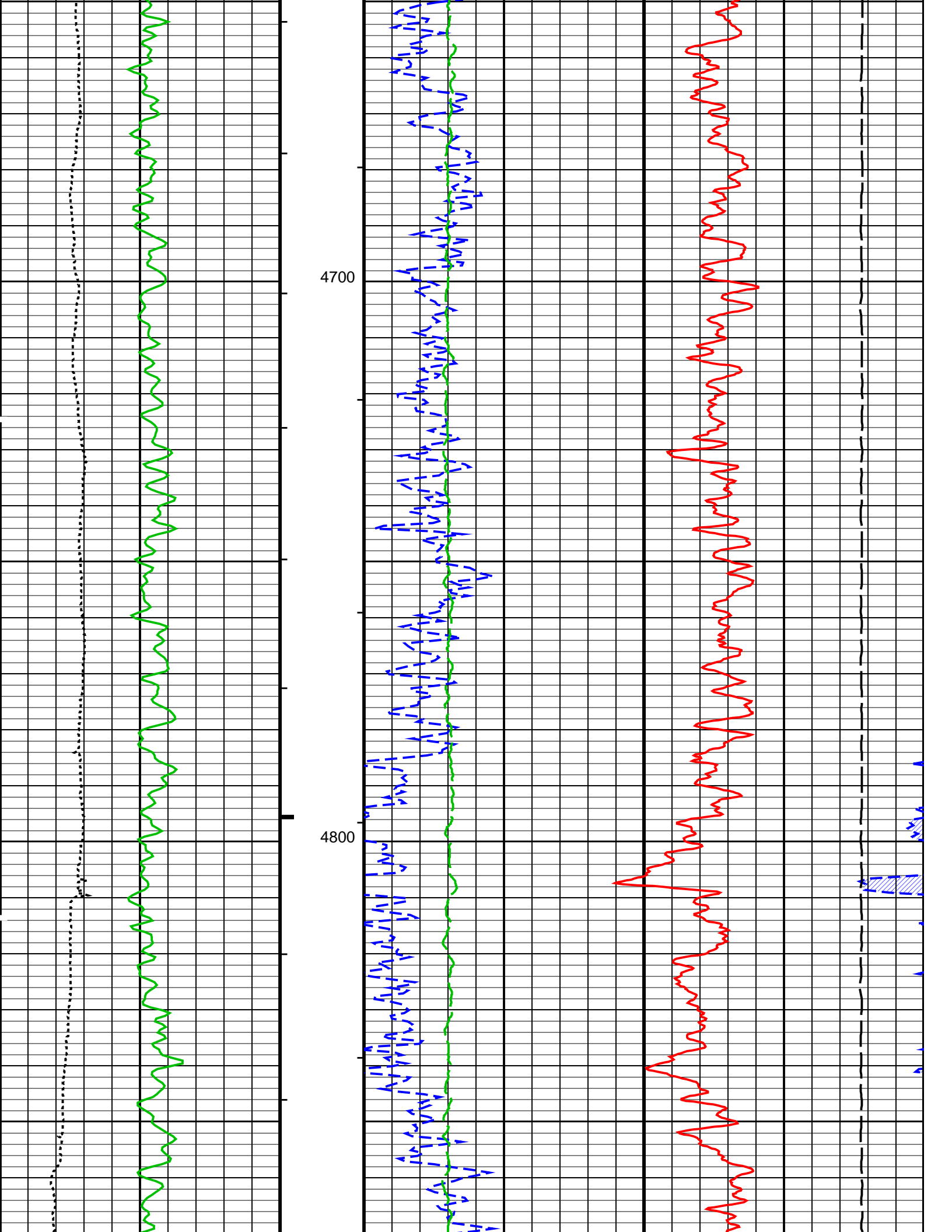


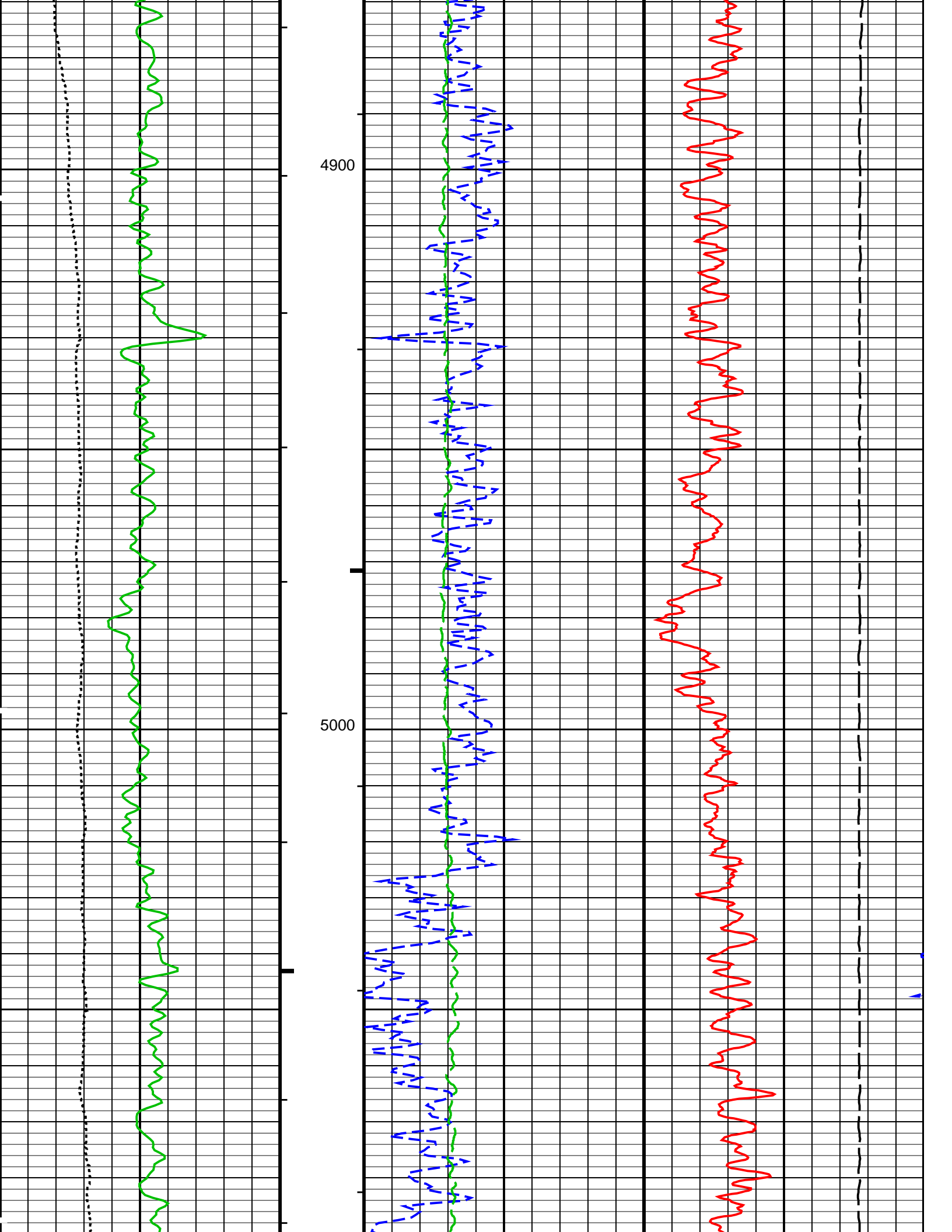


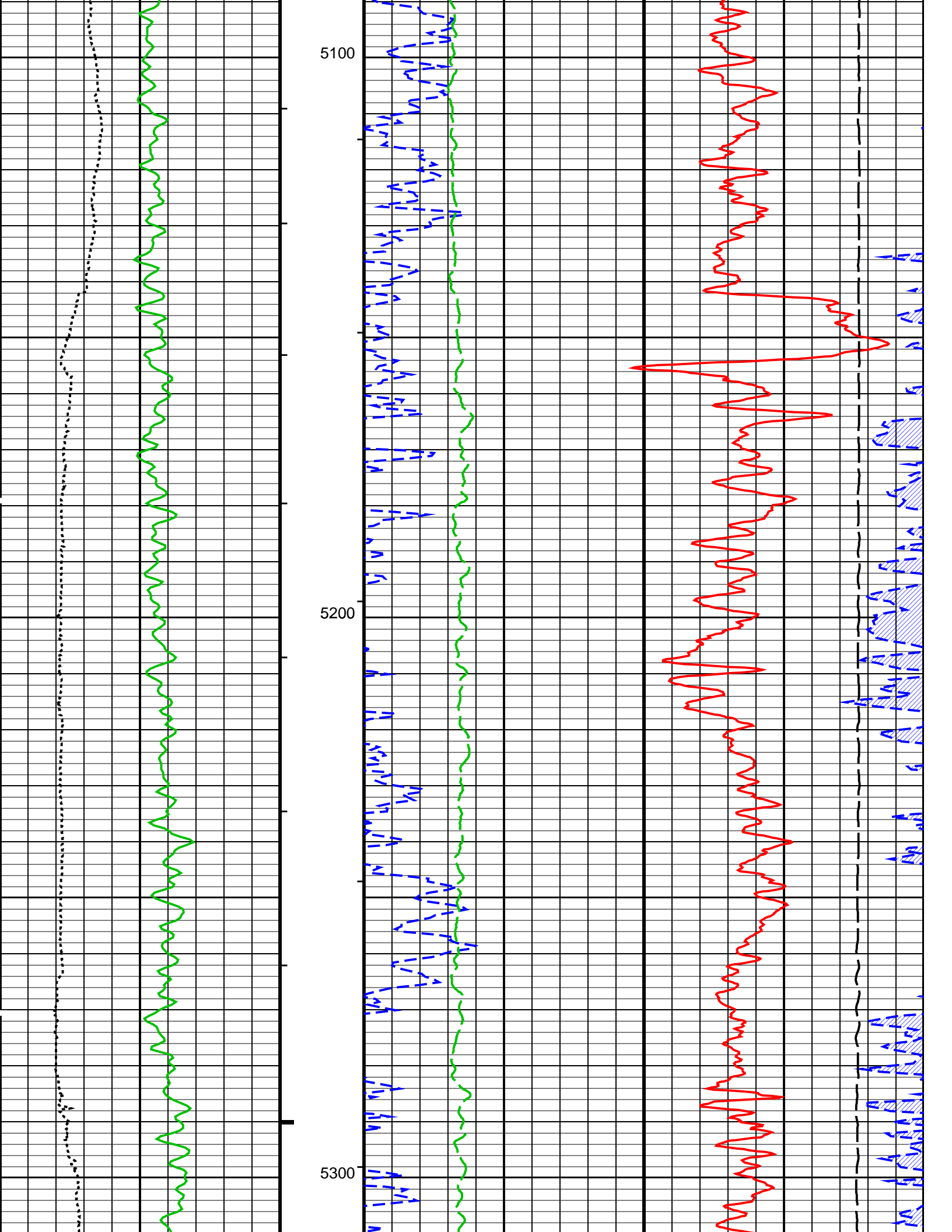


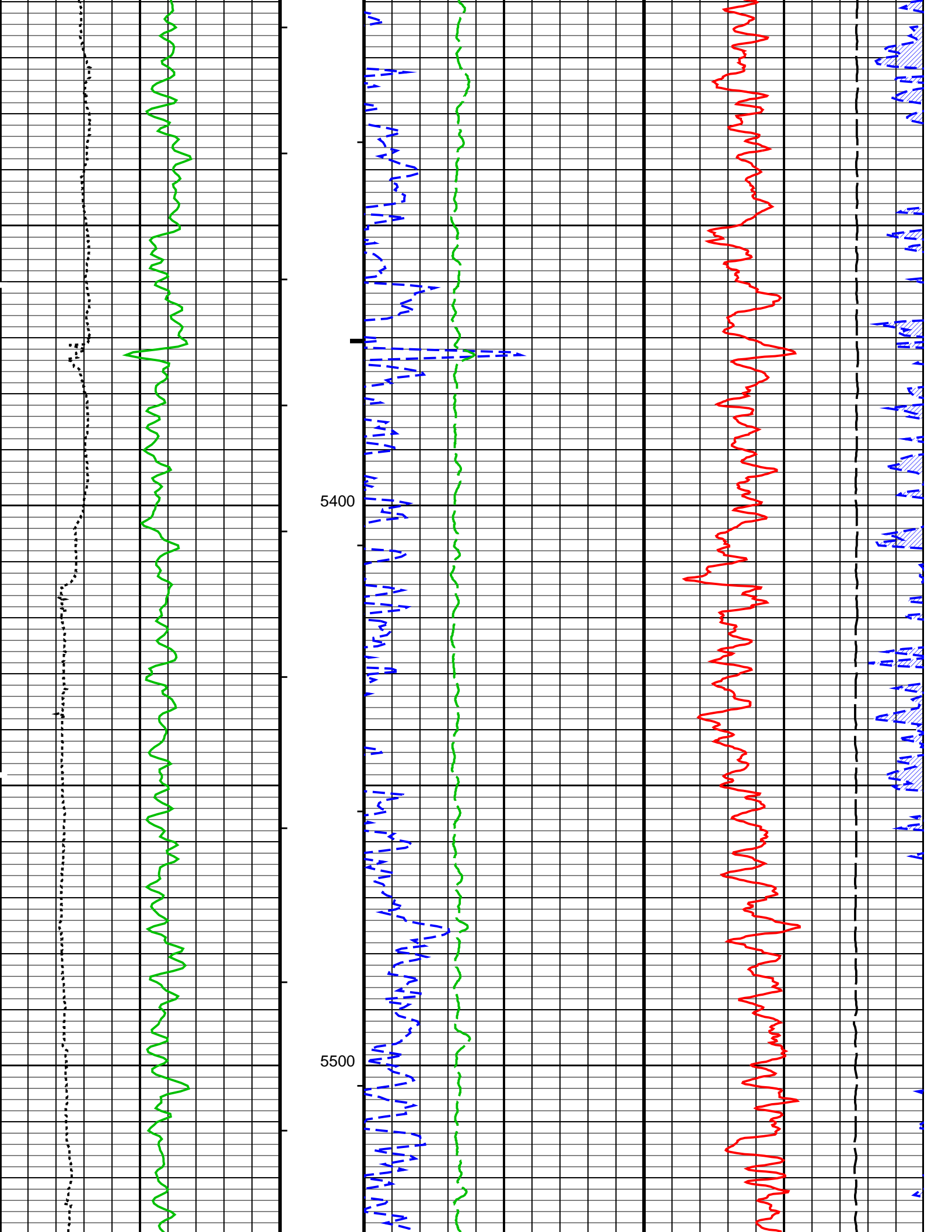


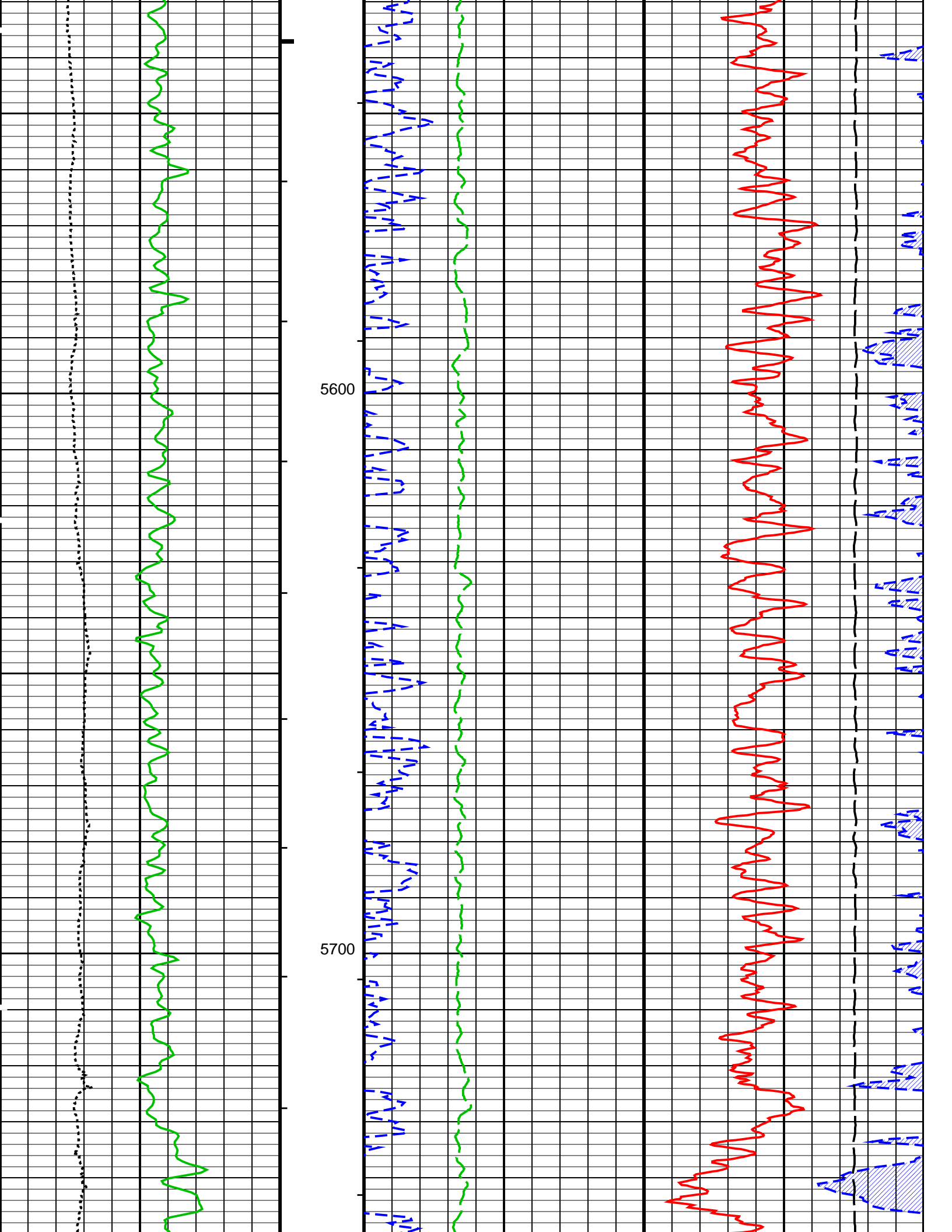


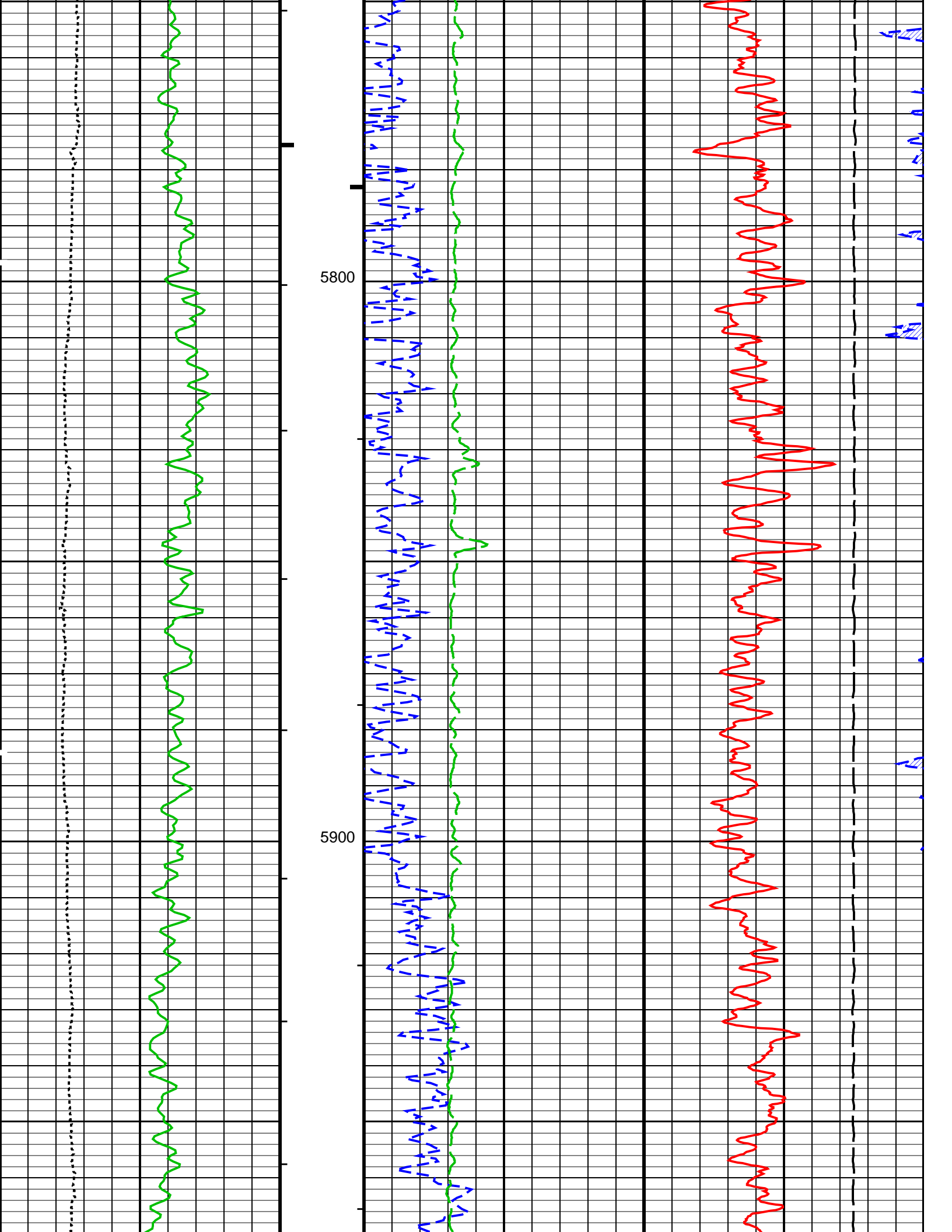


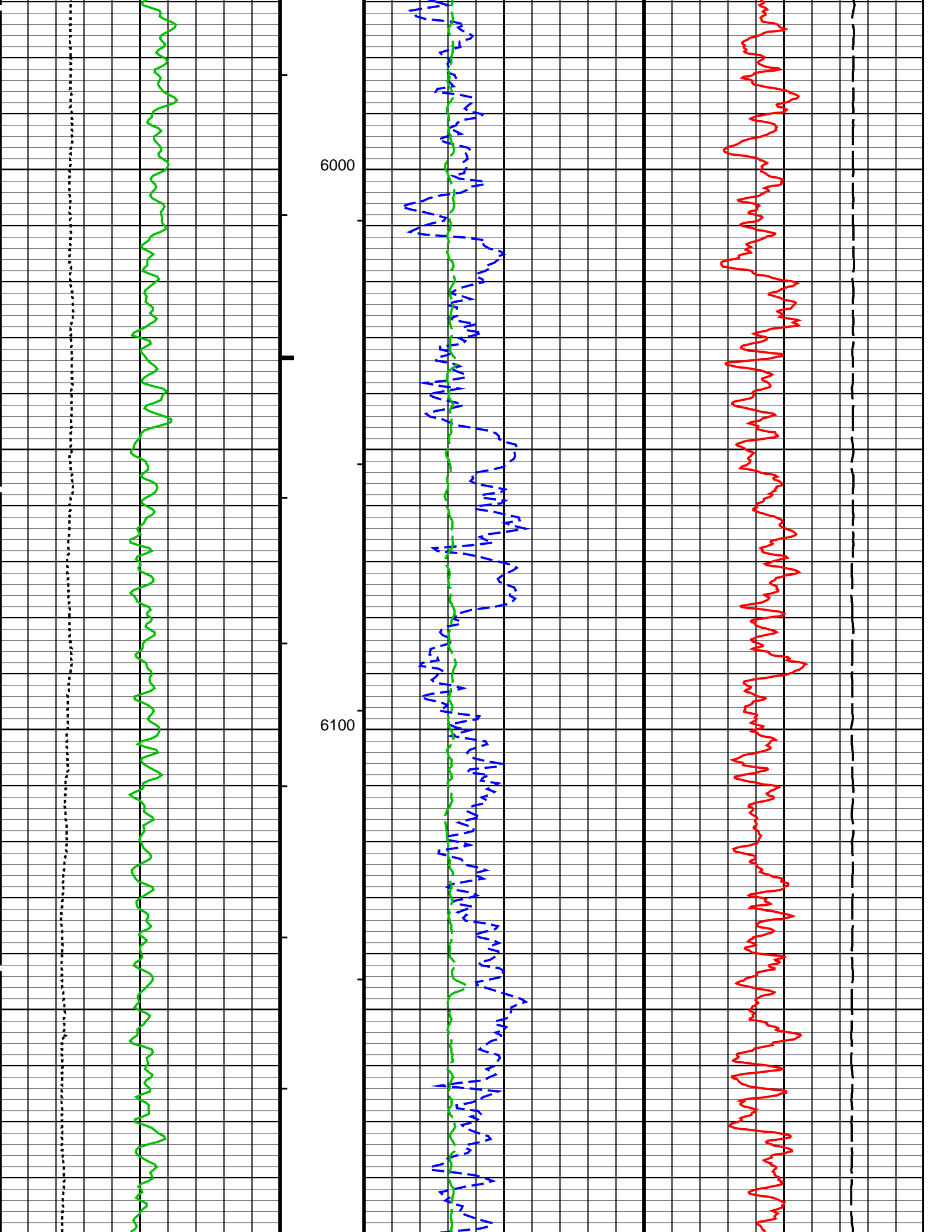


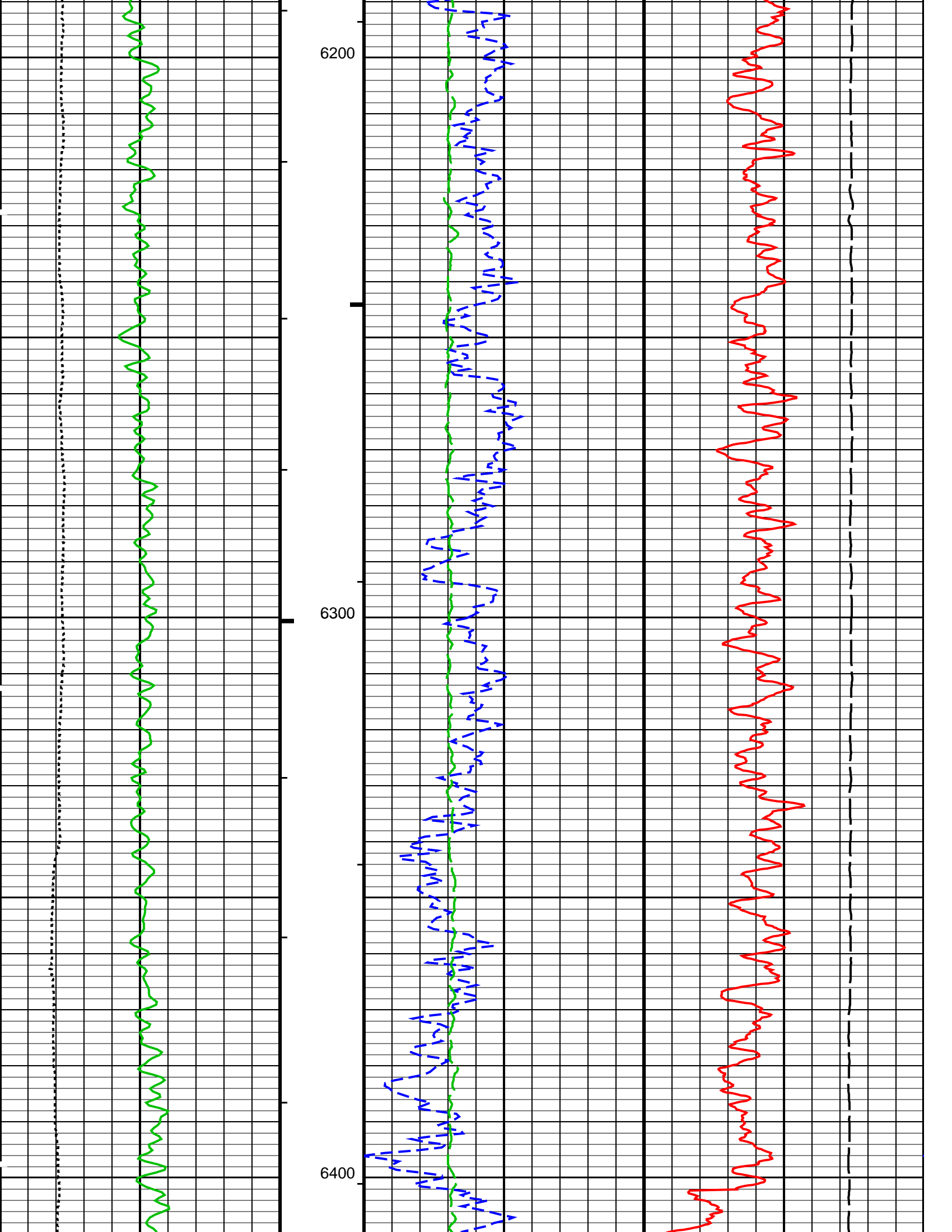


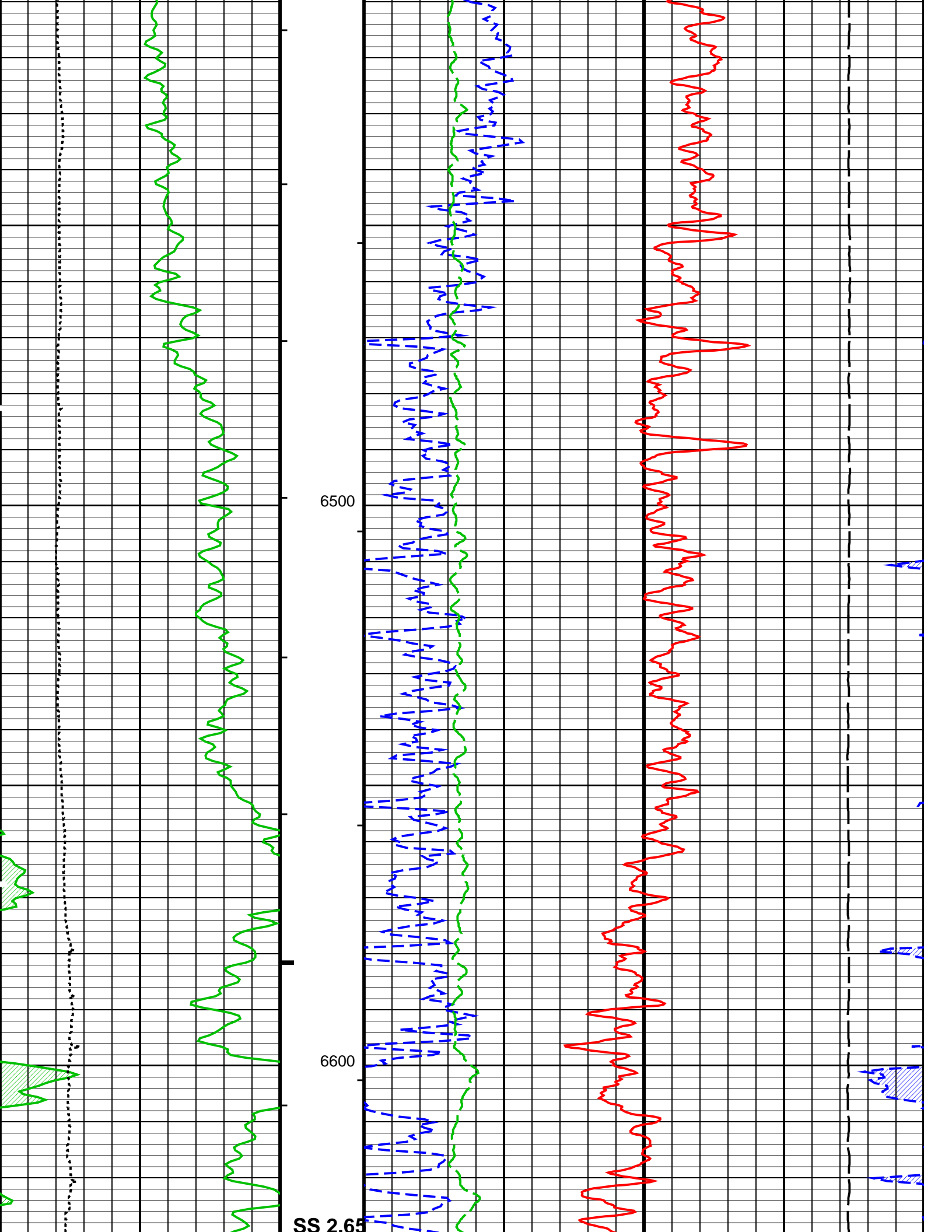


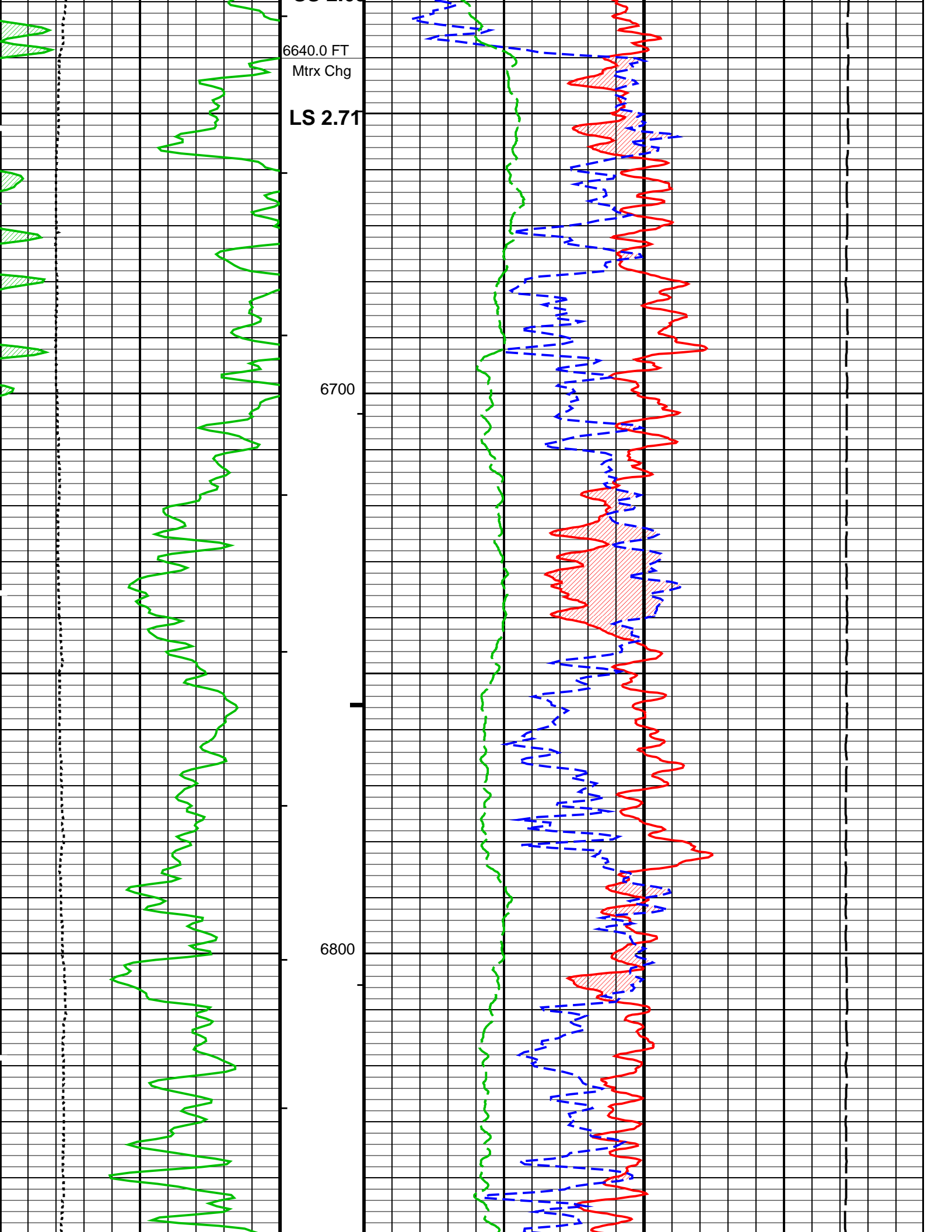


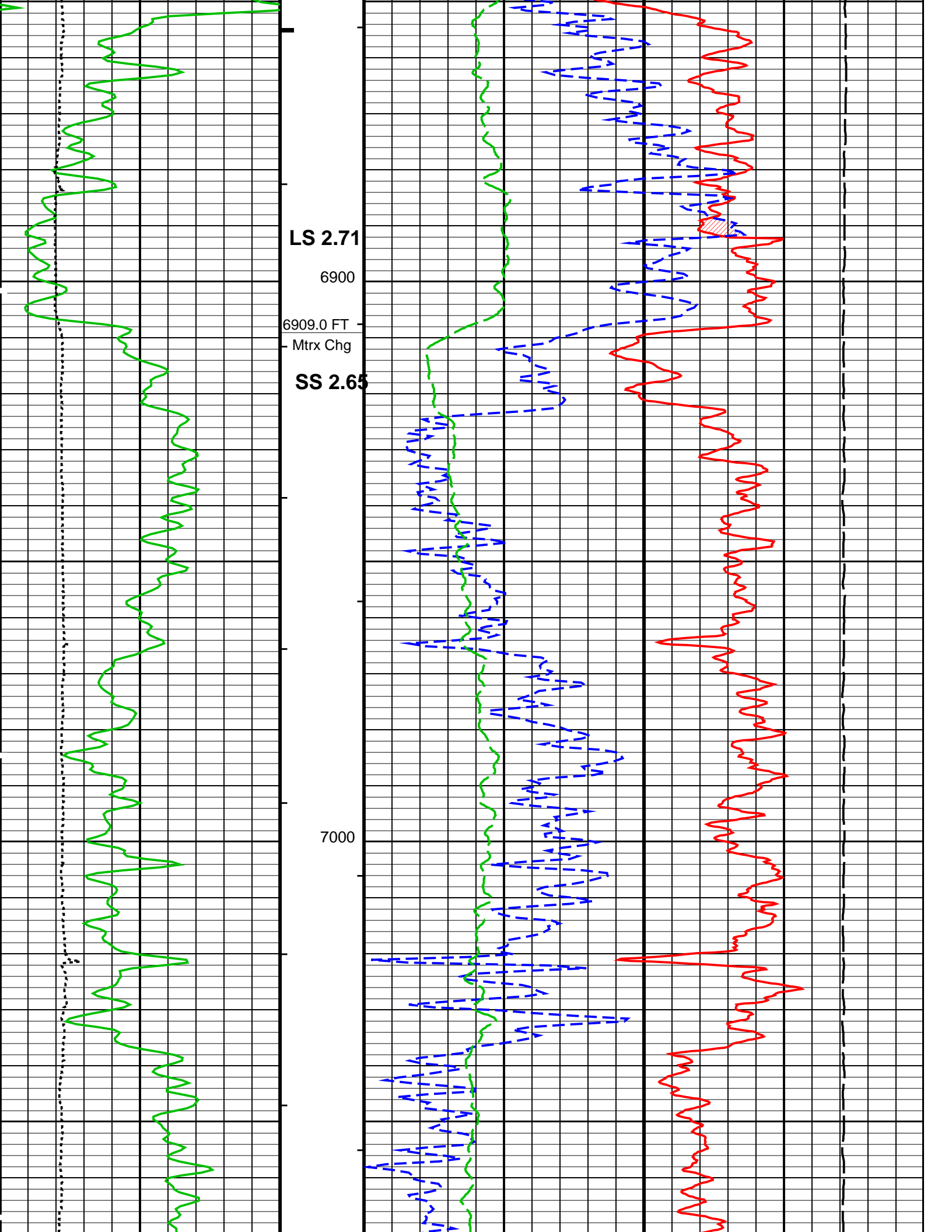


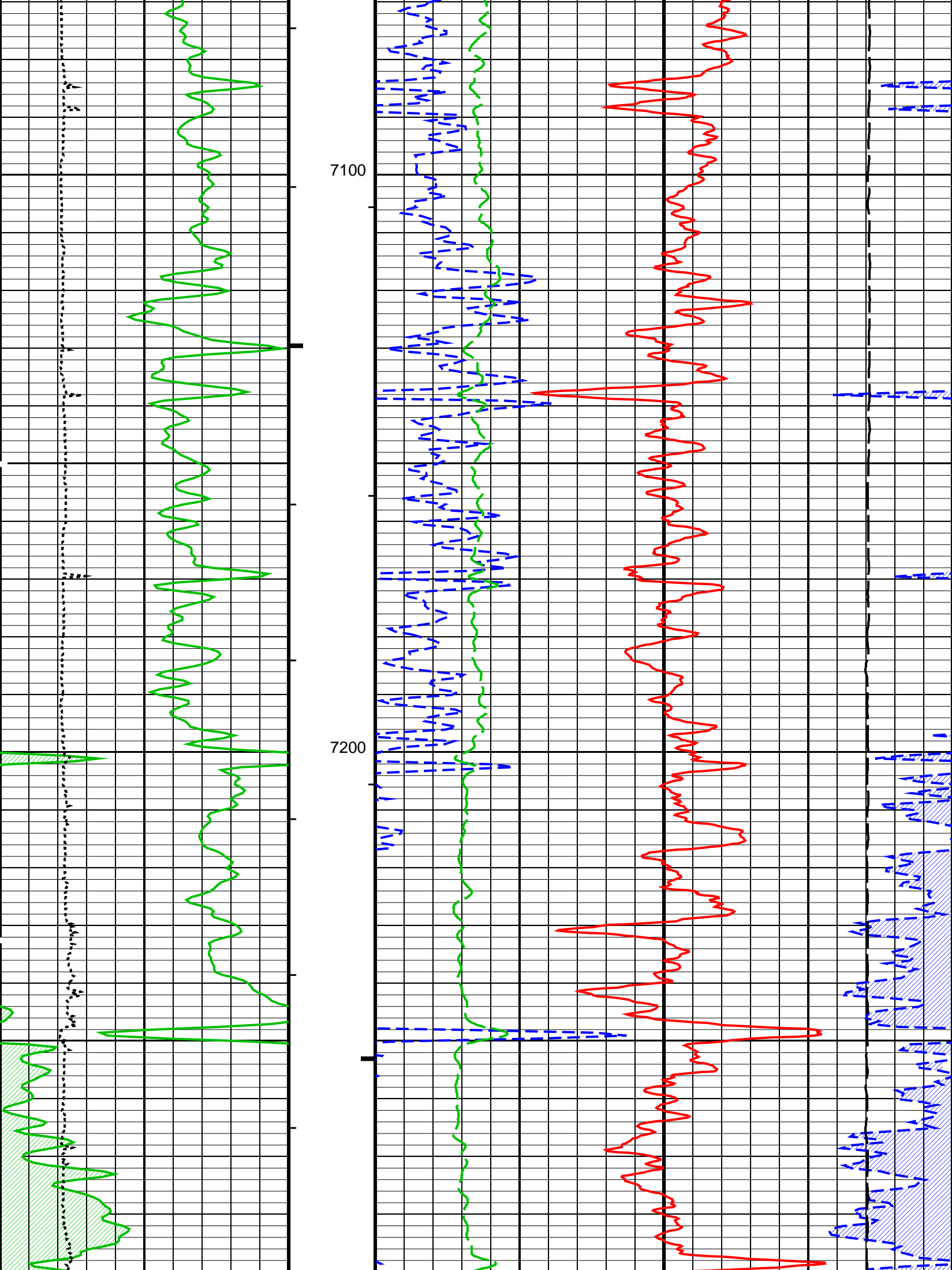


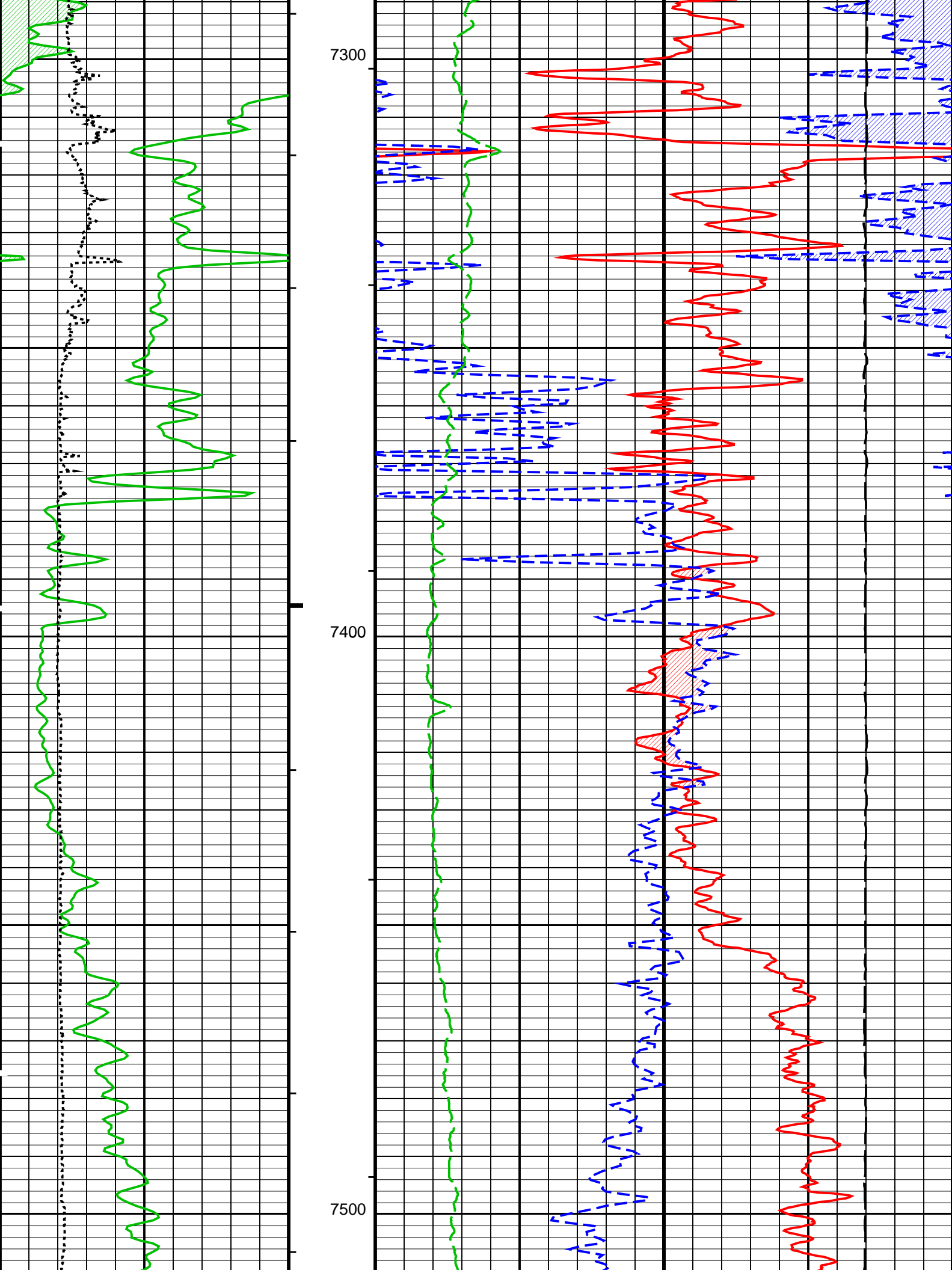


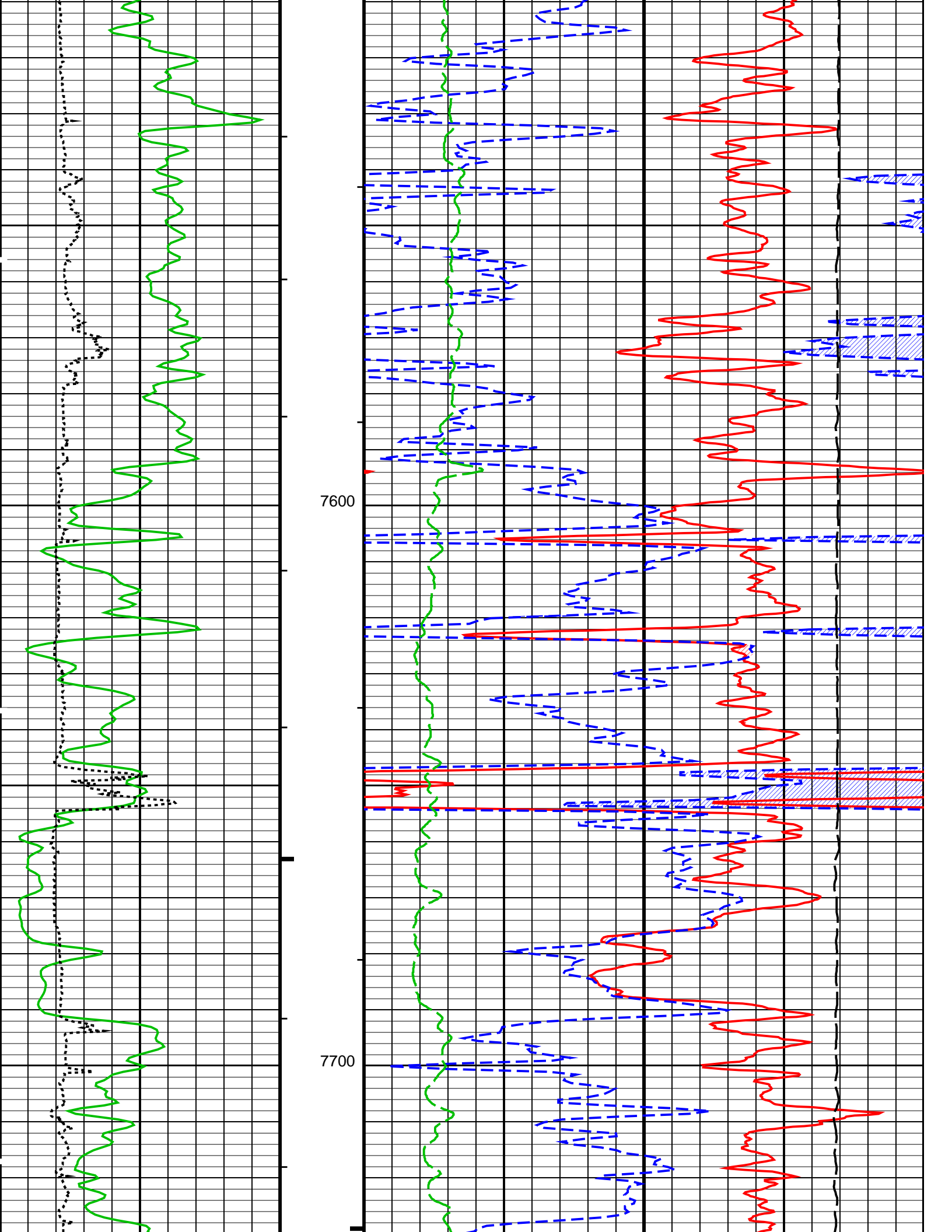


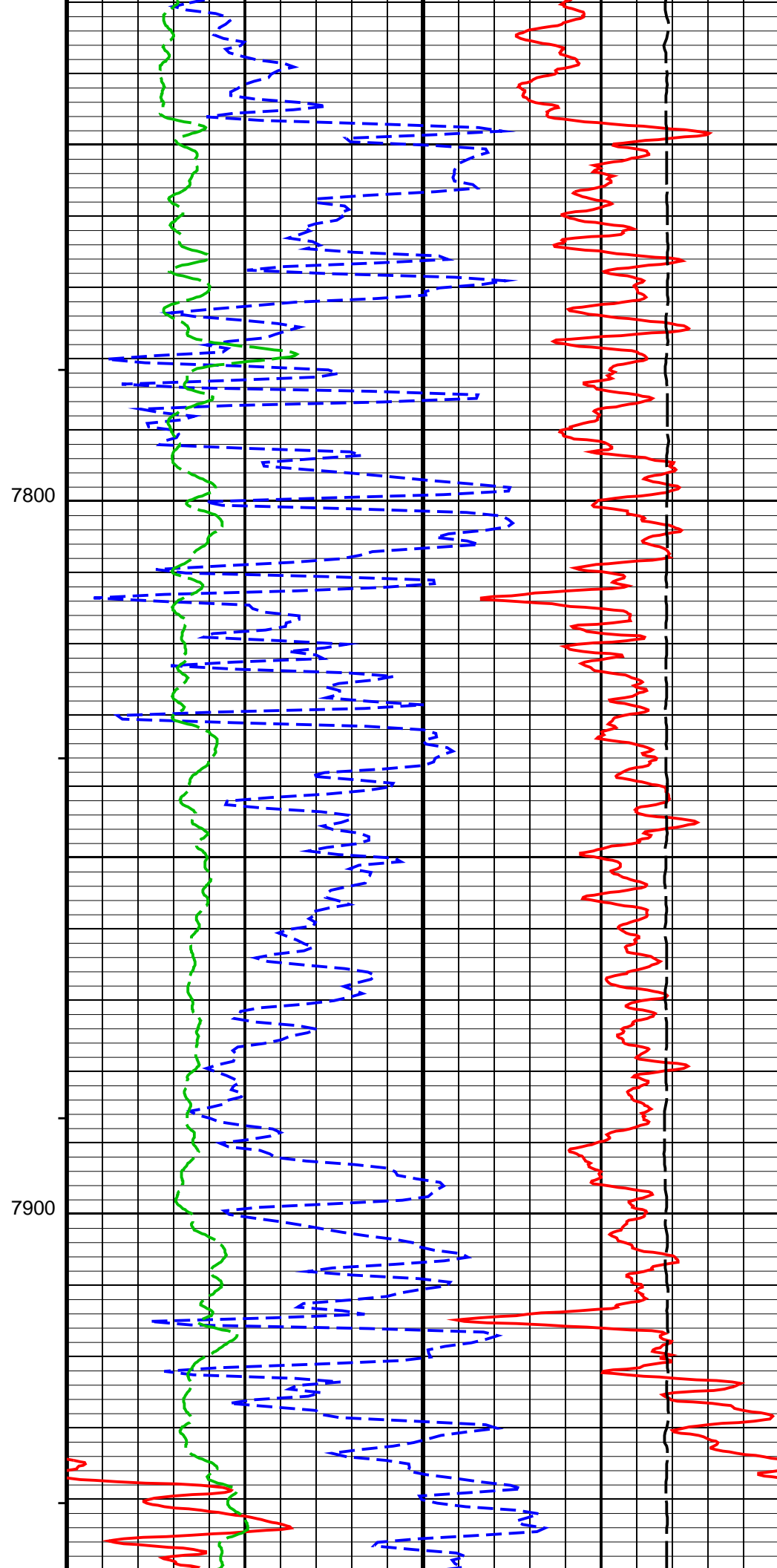
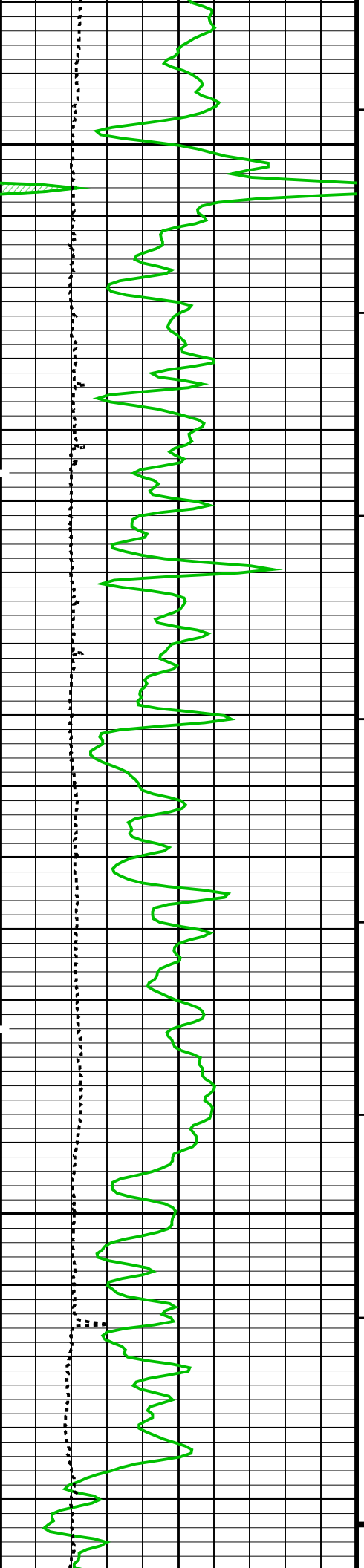


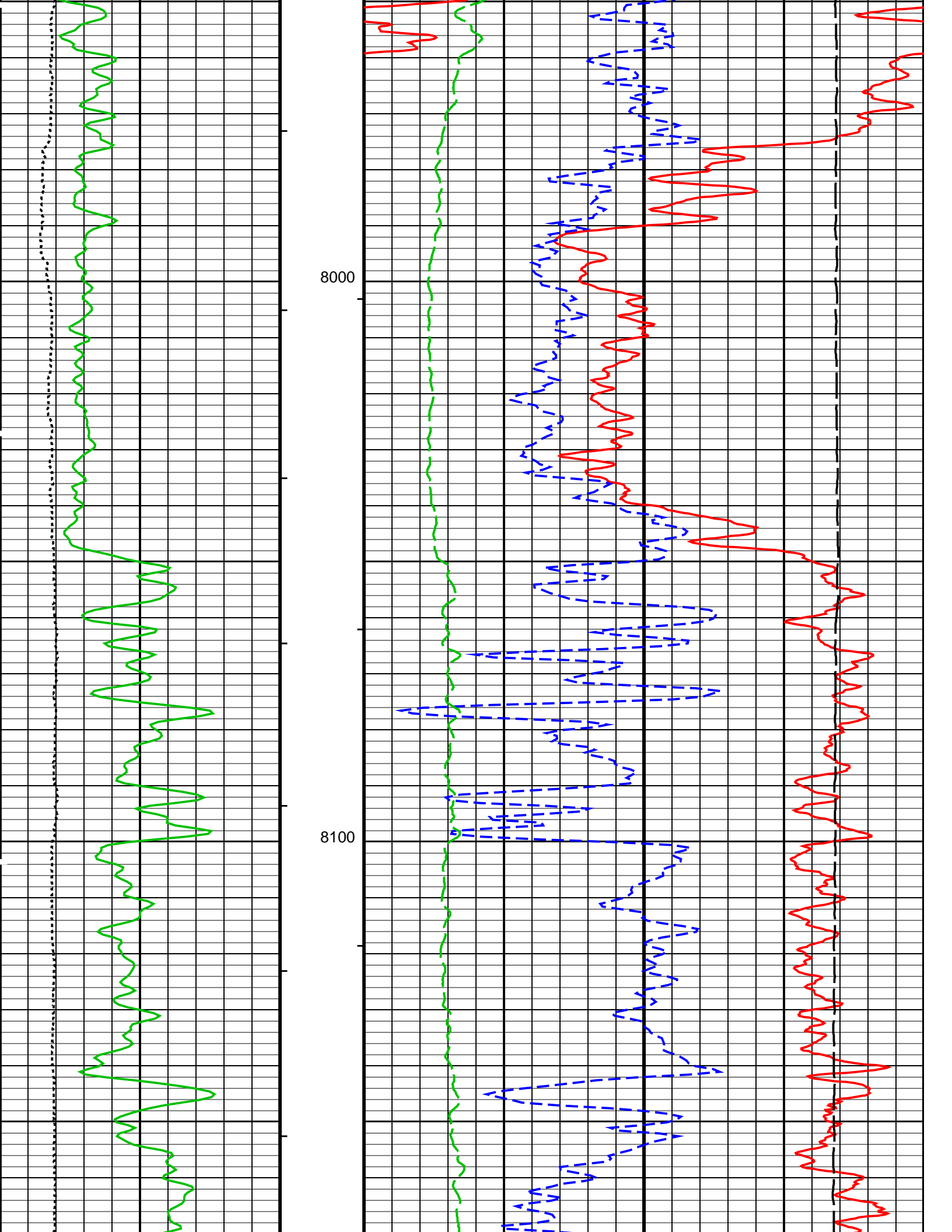


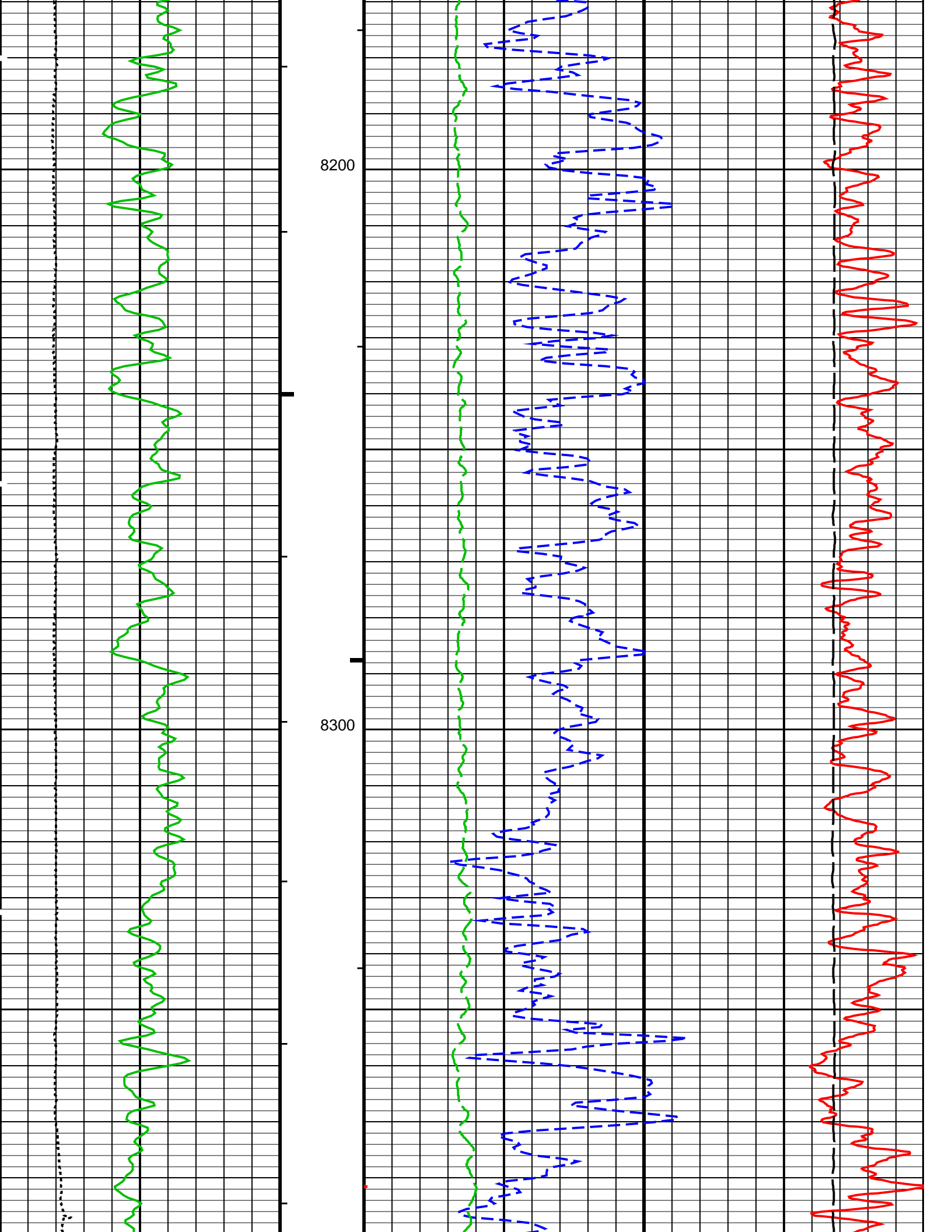


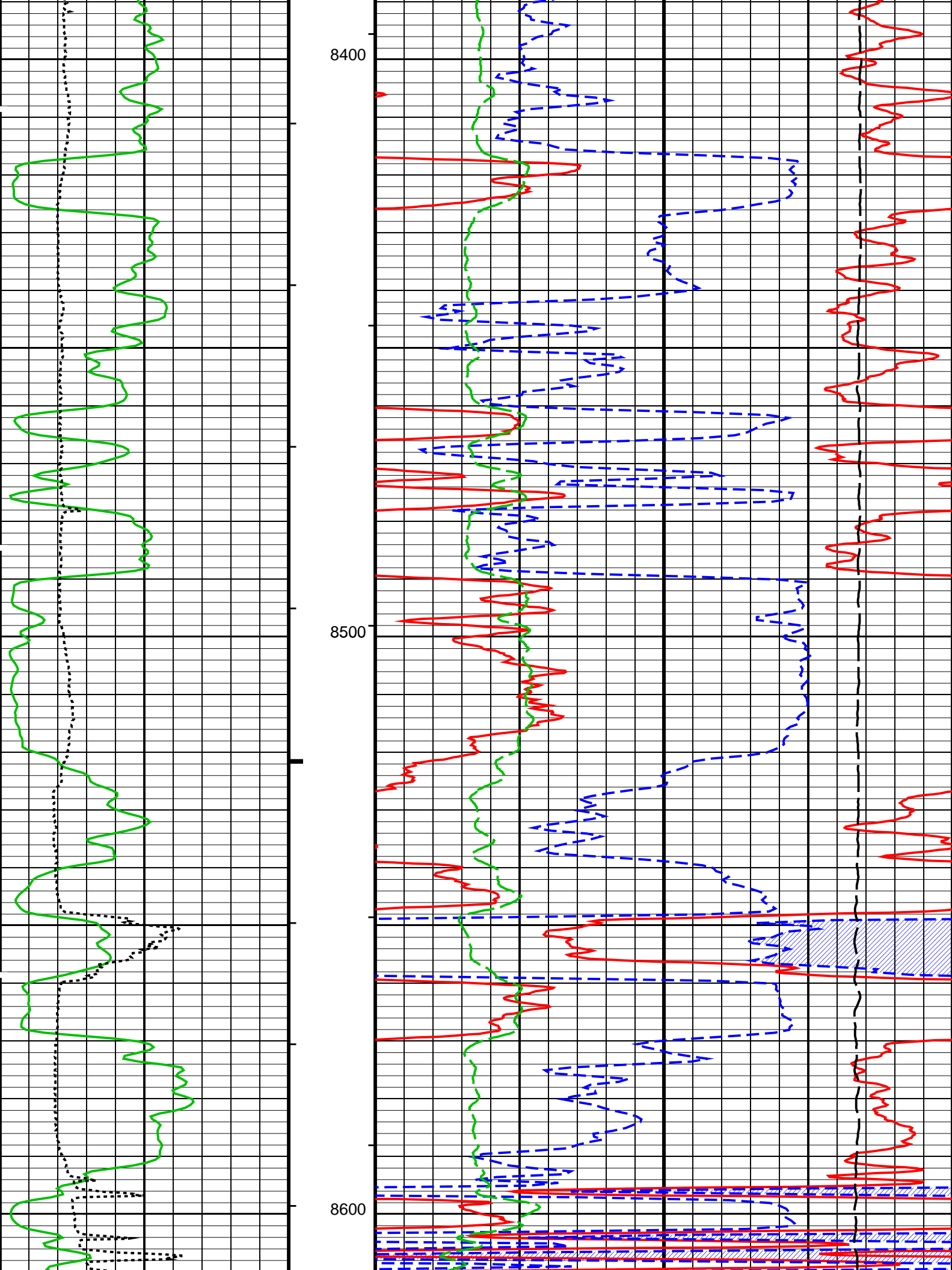


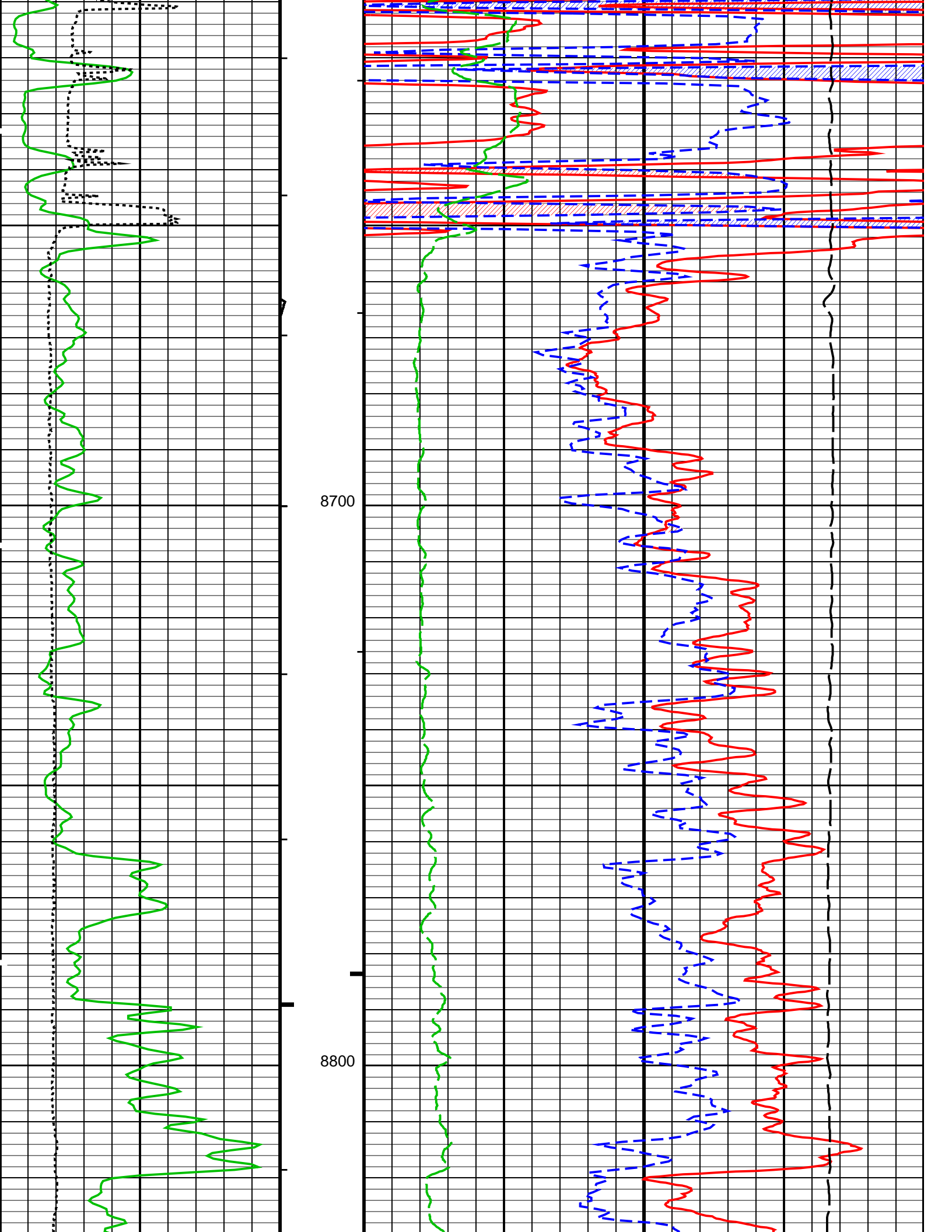


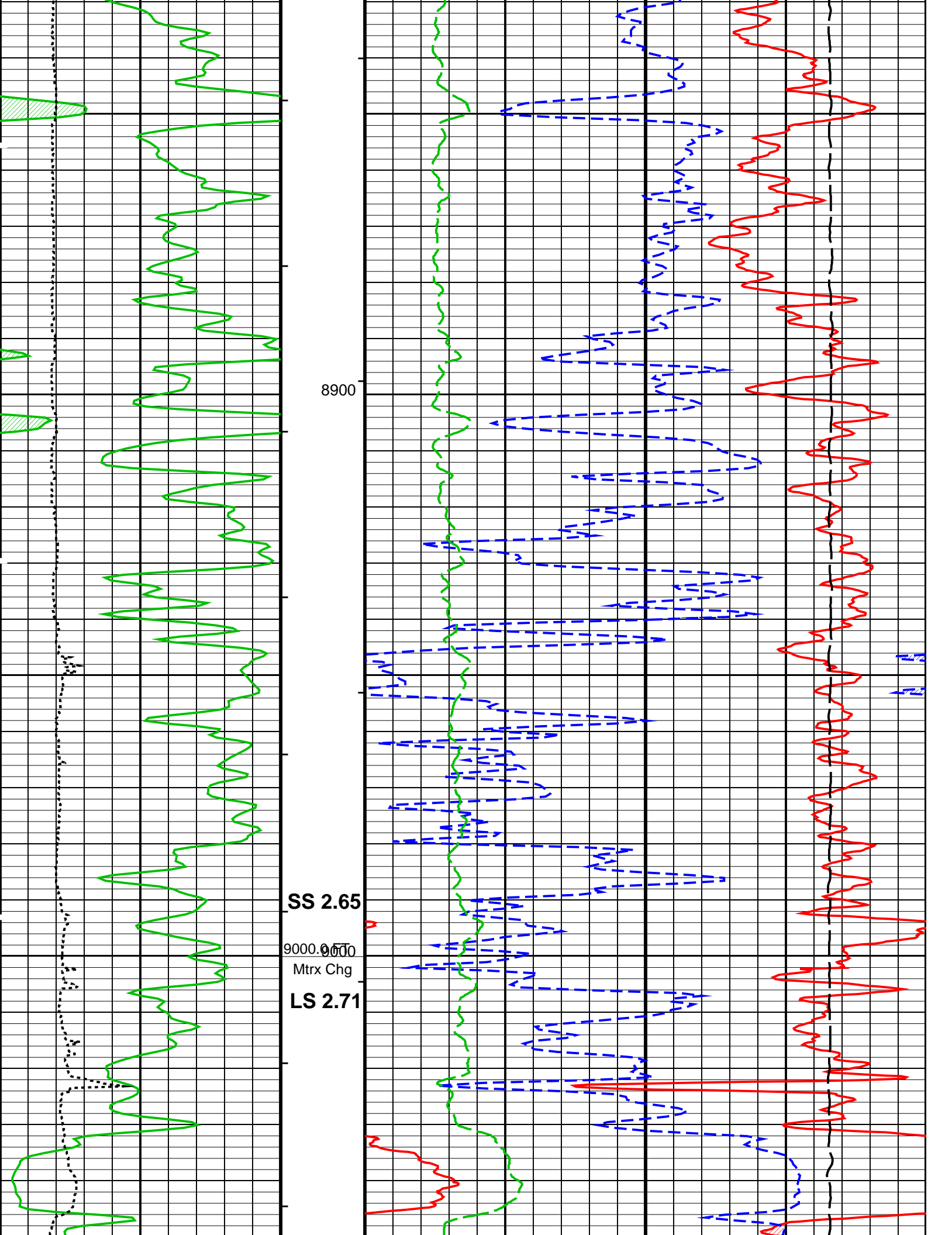


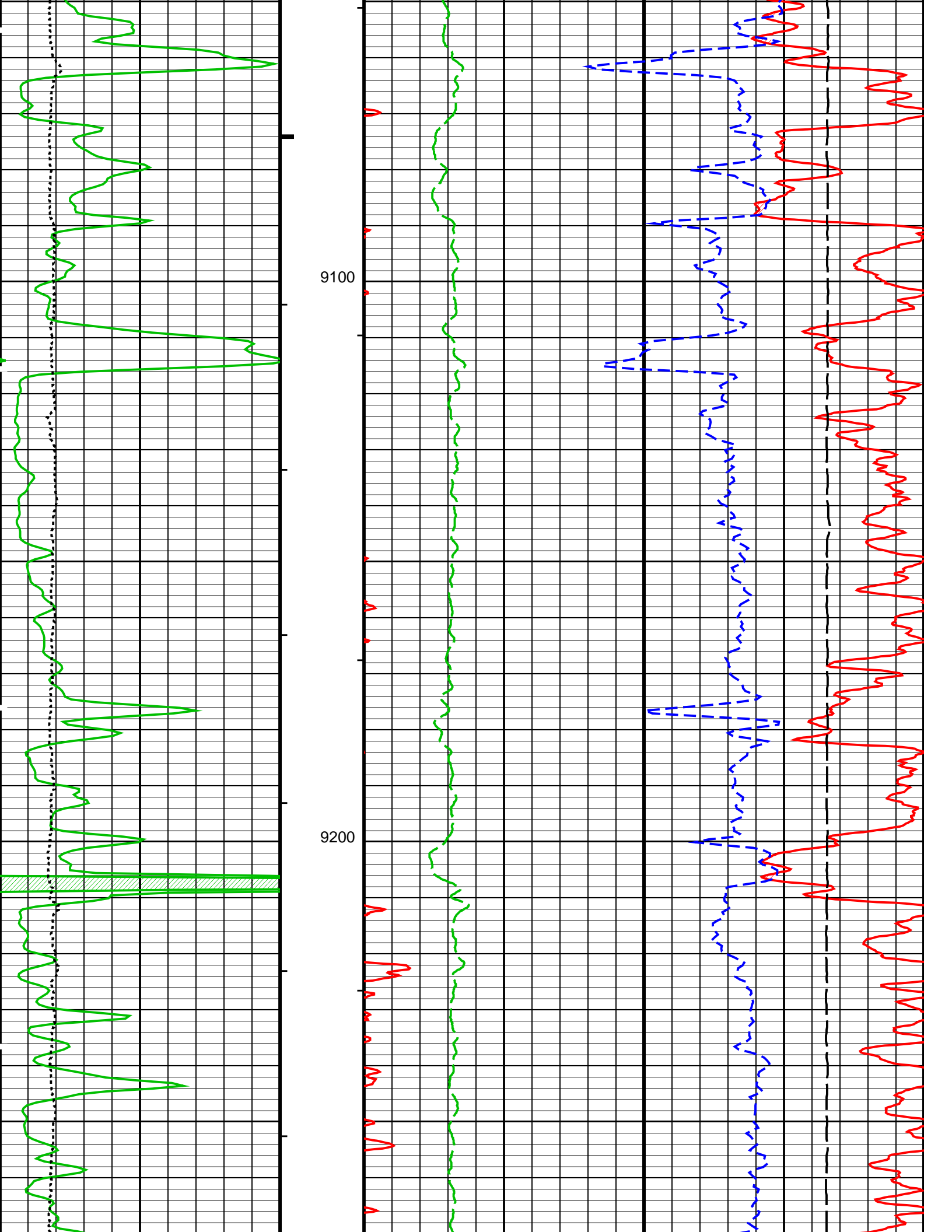


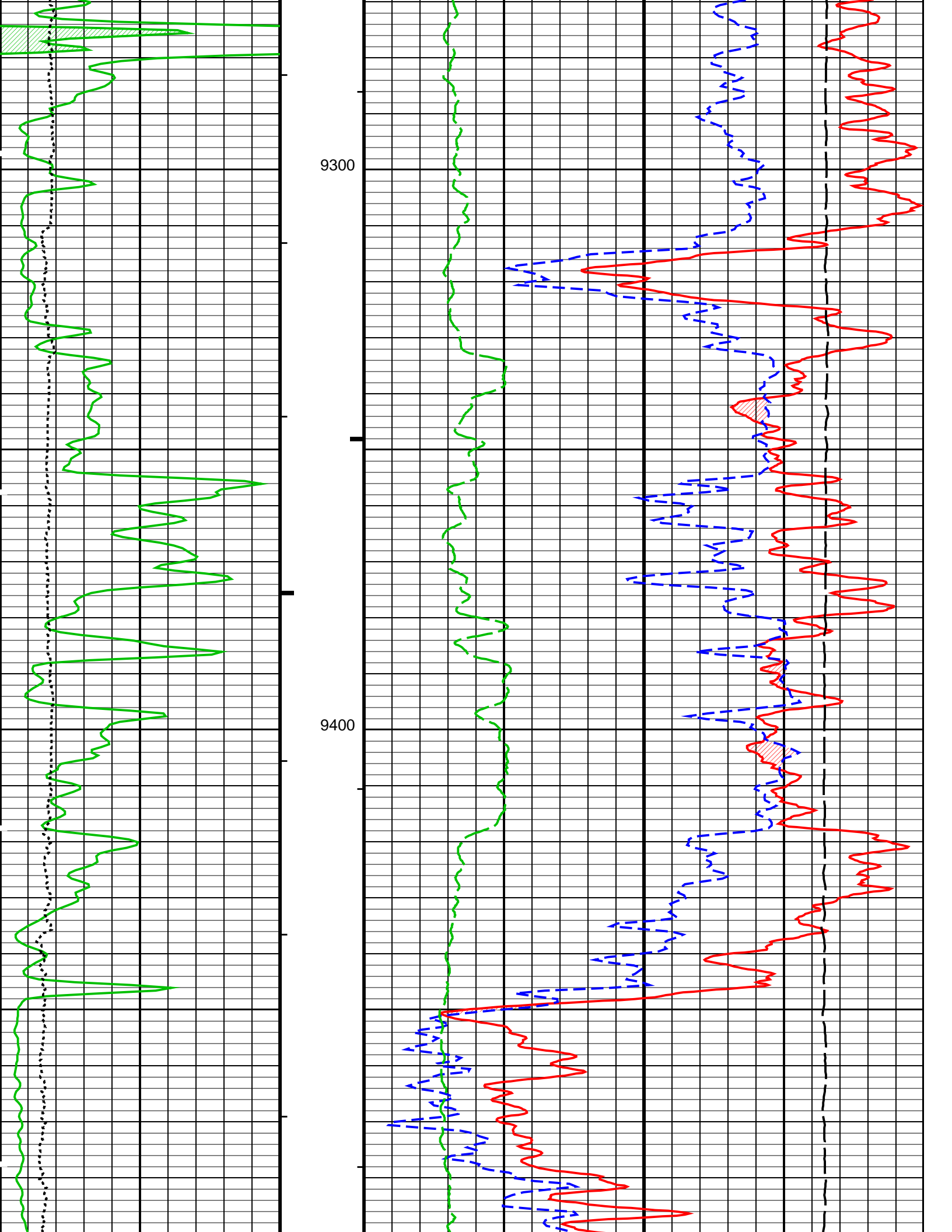


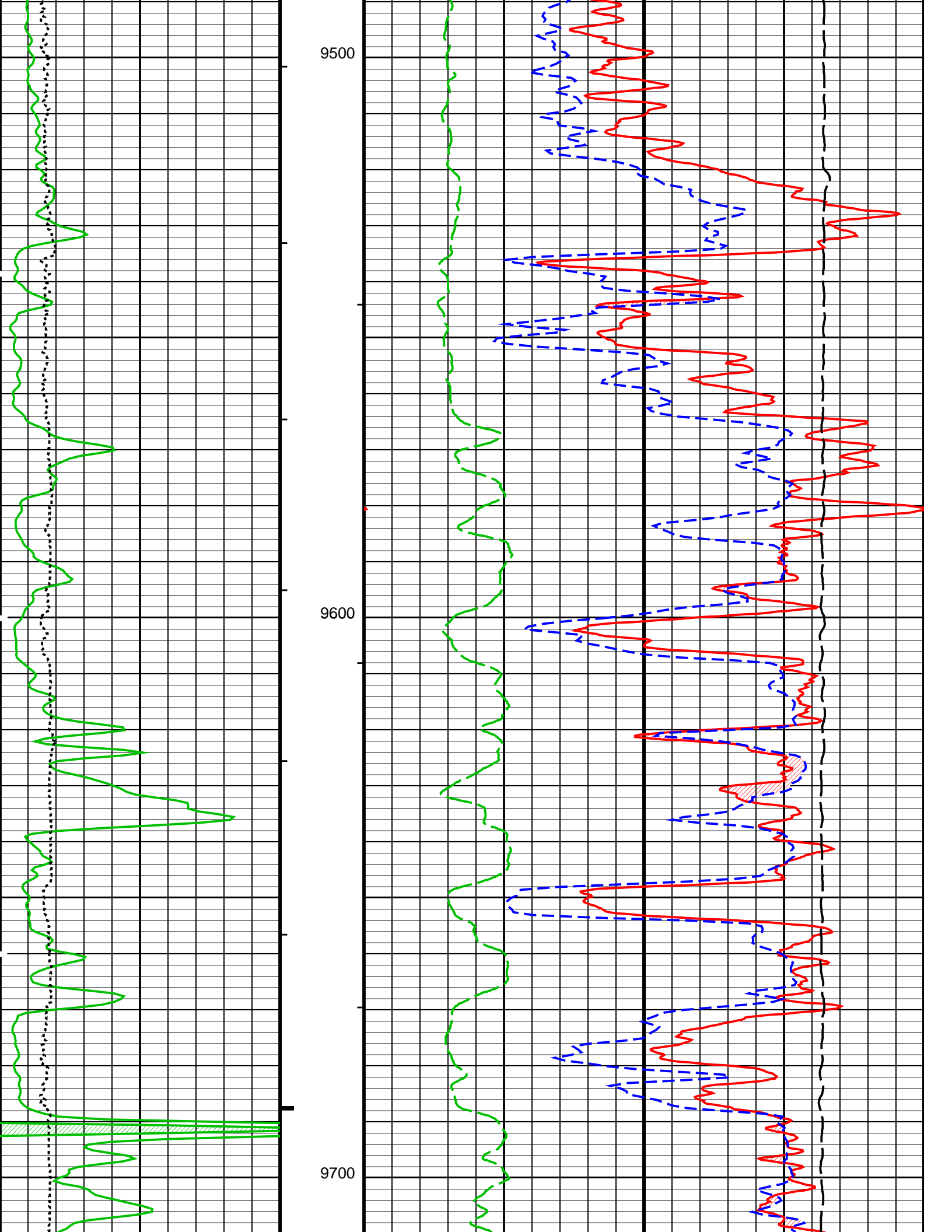


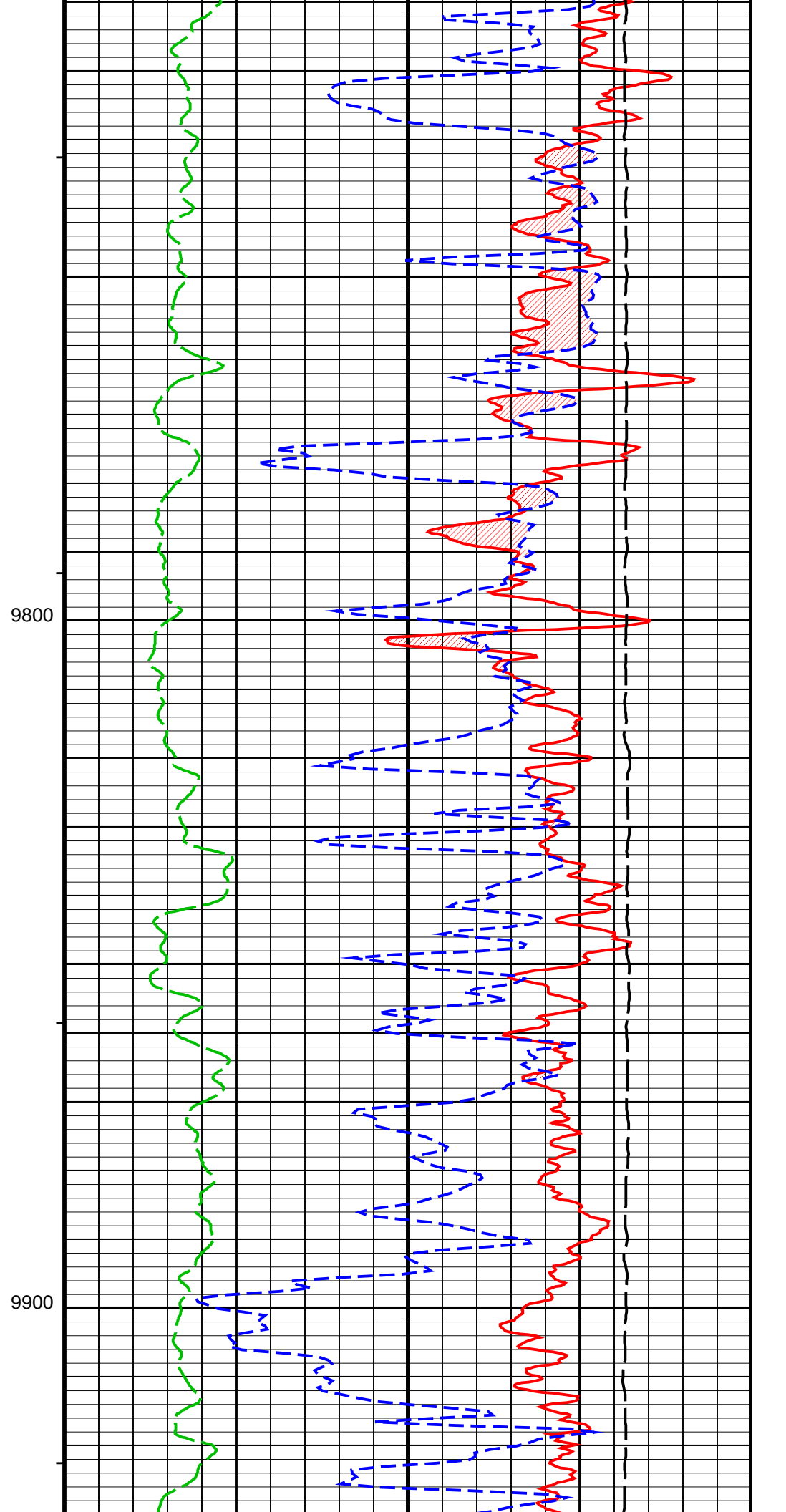
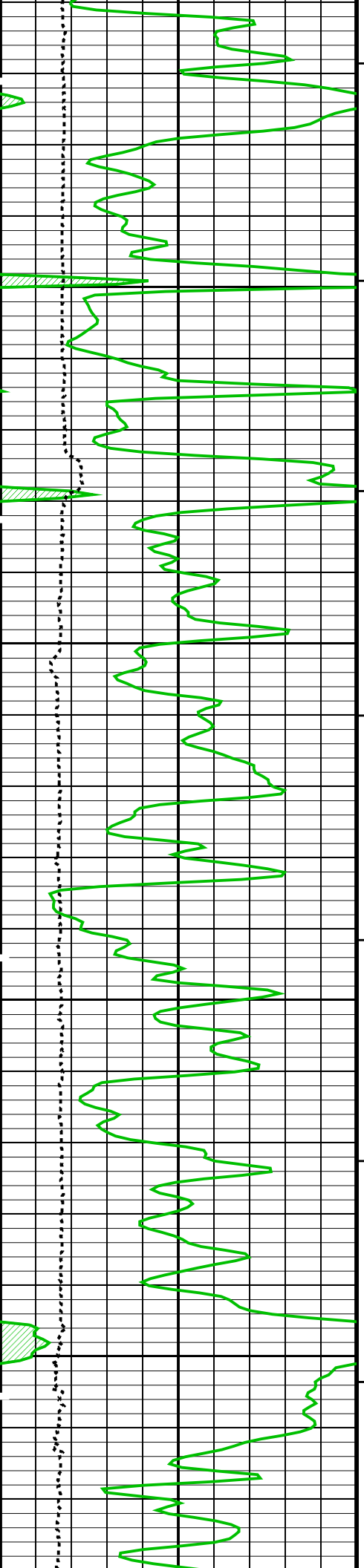


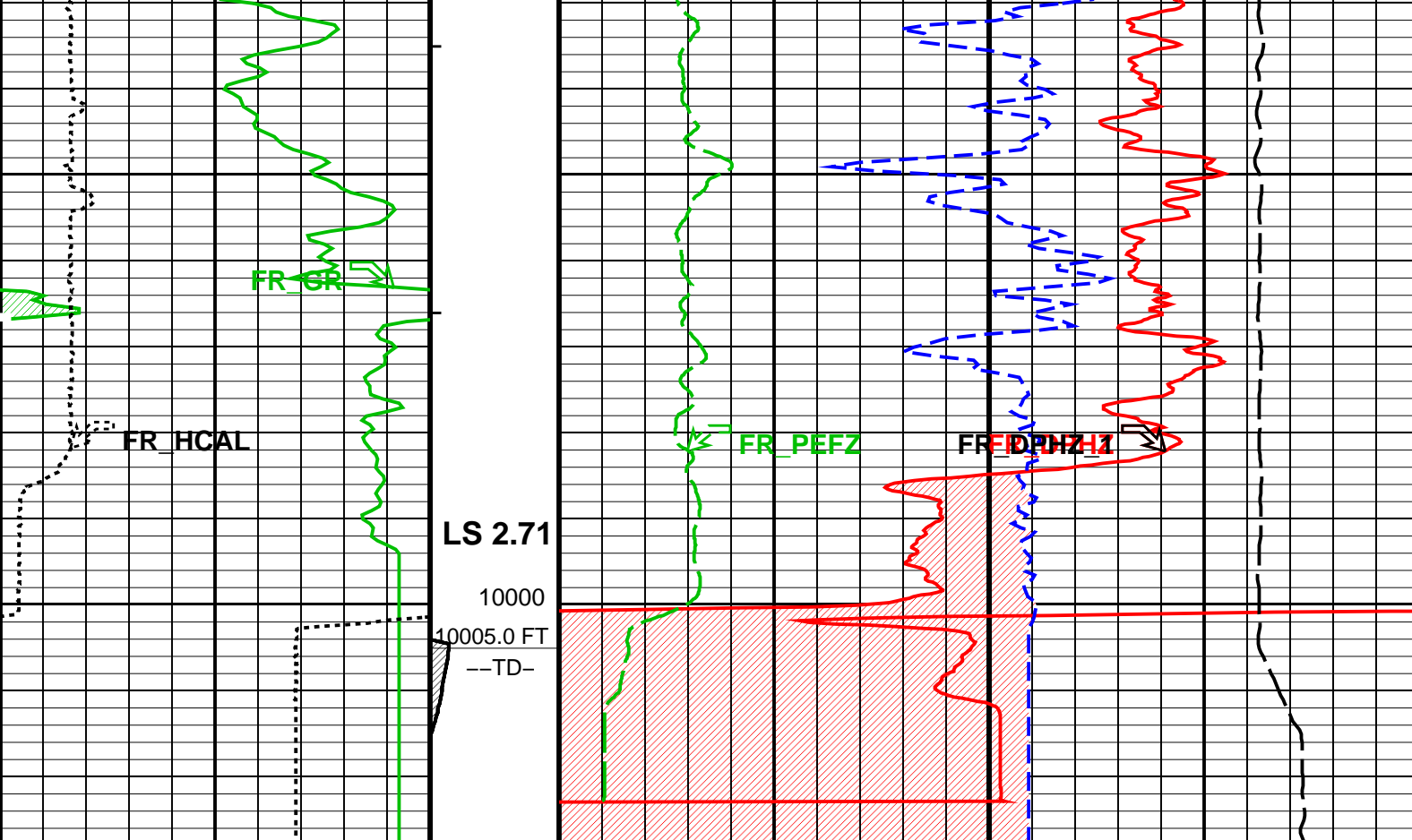












MAIN PASS: *** PLATFORM EXPRESS – NUCLEAR POROSITY ***

Gamma Ray Backup	Cable Drag	Std. Res. Density Porosity (DPHZ)	
		0.3	(V/V) -0.1
Gamma Ray (GR) (GAPI)	Tool/Tot. Drag	Alpha Processed Neutron Porosity (NPOR)	
0 200		0.3	(V/V) -0.1
Caliper (HCAL) (IN)	Stuck Stretch (STIT)	Std. Res. Formation Pe (PEFZ)	Tension (TENS)
6 16	0 (F) 50	0 10 10000	(LBF) 0
		Gas Effect	
		NPOR Backup	

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
- └ Integrated Cement Volume Minor Pip Every 10 F3
- └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HILTB-CTS: High resolution Integrated Logging Tool-CTS		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1.000 g/cm3
FSCO	Formation Salinity Correction Option	NO
GCLF	Germany Coal-like Formation Option	NO
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0.000 deg

GGRD	Average Angular Deviation of Borehole from Normal	0.010	deg
HSCO	Hole Size Correction Option	YES	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	SAND	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.650	g/cm3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	STDRES	
NSAR	HRDD Depth Sampling Rate	1.000	in
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68.000	degF
SOCN	Standoff Distance	0.125	in
SOCO	Standoff Correction Option	YES	
STI: Stuck Tool Indicator			
STKT	STI Stuck Threshold	2.500	ft
TDD	Total Depth – Driller	10000.0	ft
TDL	Total Depth – Logger	10005.0	ft
PERT: Preliminary Evaluation – Real Time			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	SAND	
SHT	Surface Hole Temperature	68.000	degF
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
MATR	Rock Matrix for Neutron Porosity Corrections	SAND	
SHT	Surface Hole Temperature	68.000	degF
System and Miscellaneous			
BS	Bit Size	7.875	in
BSAL	Borehole Salinity		
CSIZ	Current Casing Size	8.675	in
CWEI	Casing Weight	24.000	lbm/ft
DFD	Drilling Fluid Density	9.300	lbm/gal
FSAL	Formation Salinity		
MST	Mud Sample Temperature	238.0	degF
RMFS	Resistivity of Mud Filtrate Sample	0.124	ohm.m

Format: UPPER_PORO Vertical Scale: 5" per 100' Graphics File Created: 10-Feb-2009 15:48

OP System Version: 15C0-309
MCM

HILTC 15C0-309

Input DLIS Files

HILTC .019 FN:13 09-Jan-2009 20:03 10028.0 FT 497.5 FT

Schlumberger

MAIN DENSITY LOG 5" = 100'

MAXIS Field Log

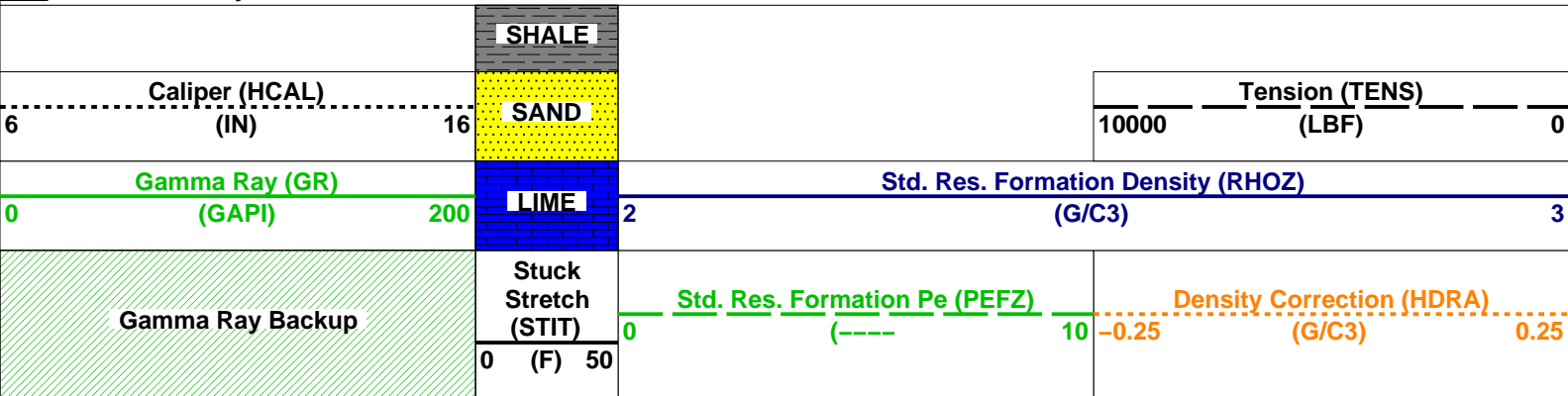
Input DLIS Files

HILTC .019 FN:13 09-Jan-2009 20:03 10028.0 FT 497.5 FT

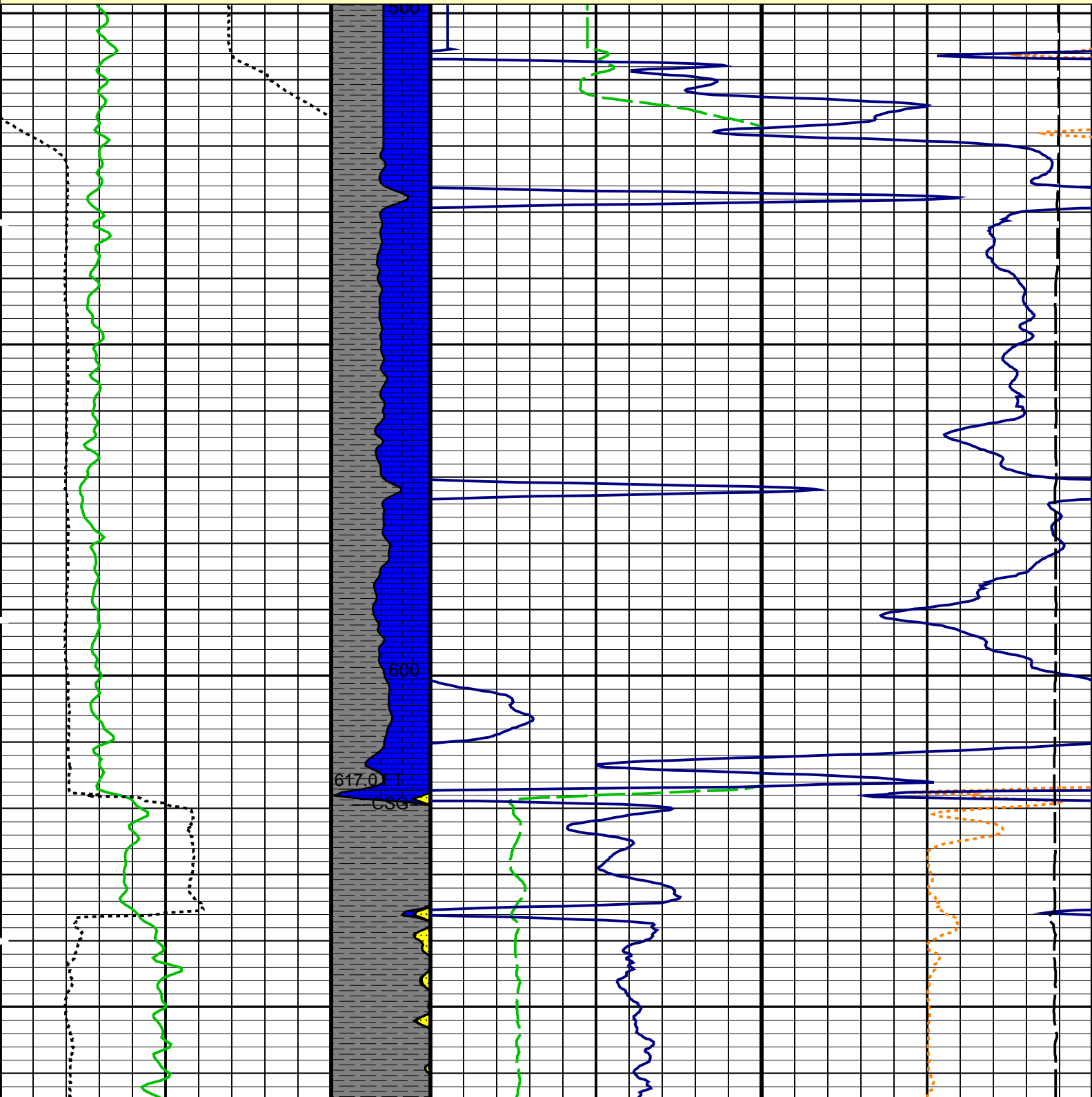
OP System Version: 15C0-309
MCM

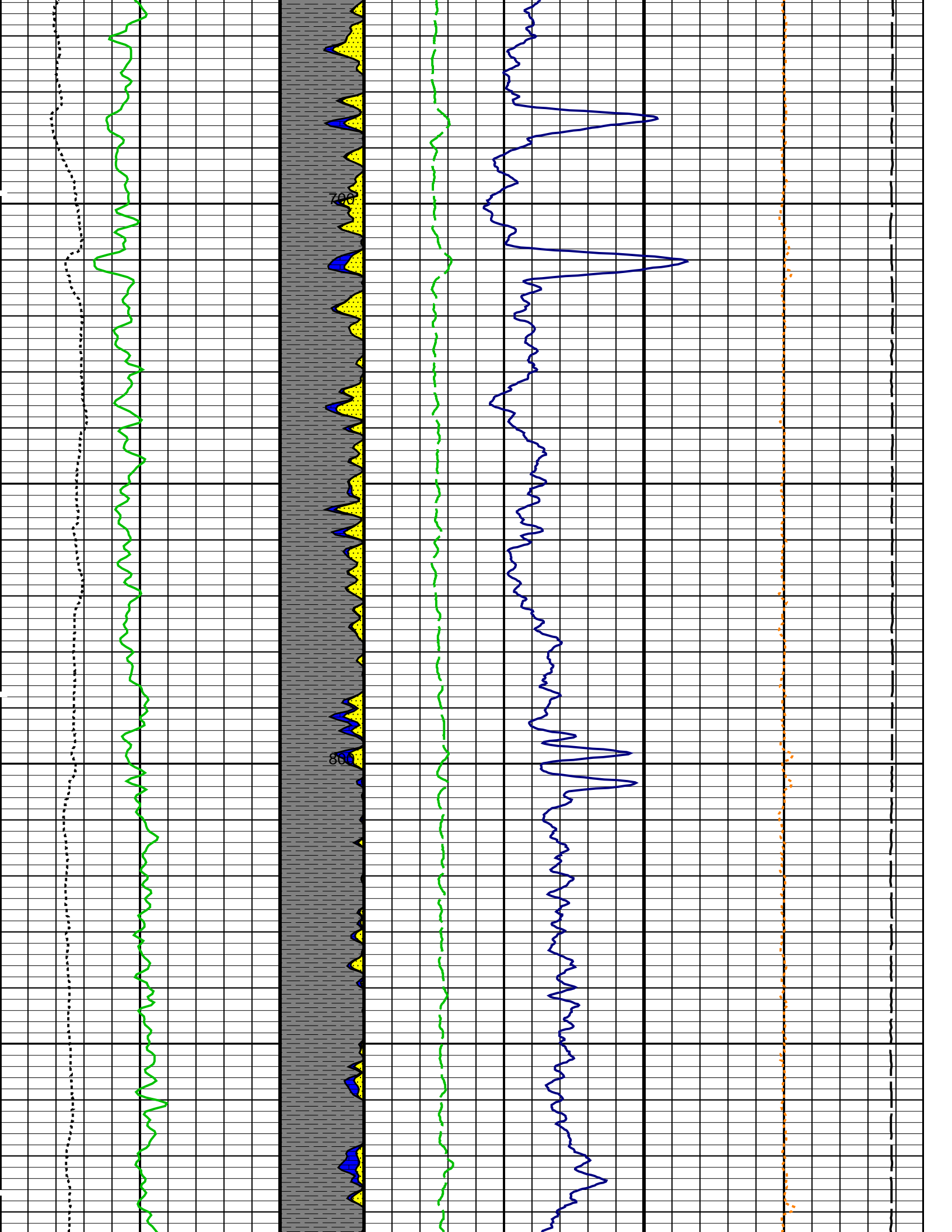
HILTC 15C0-309

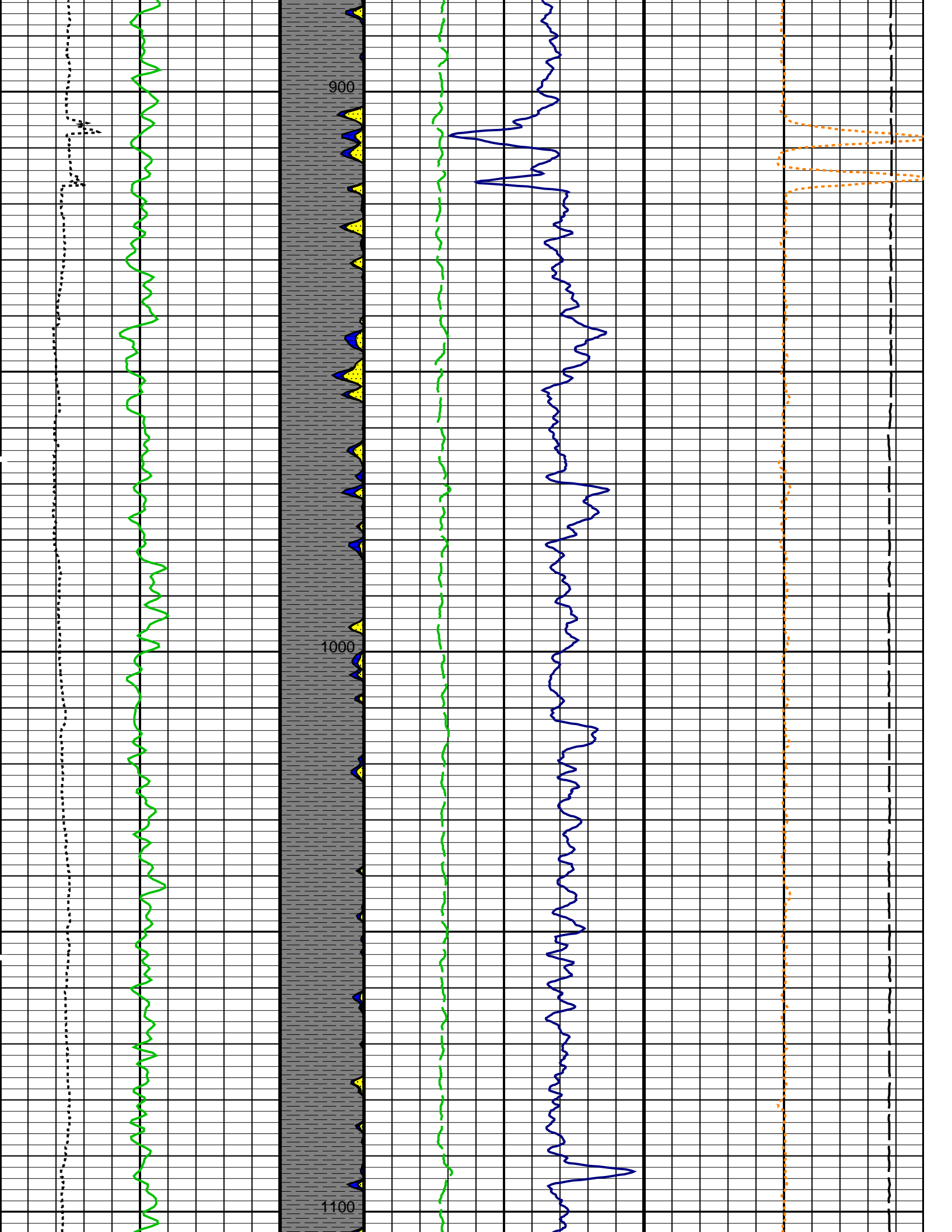
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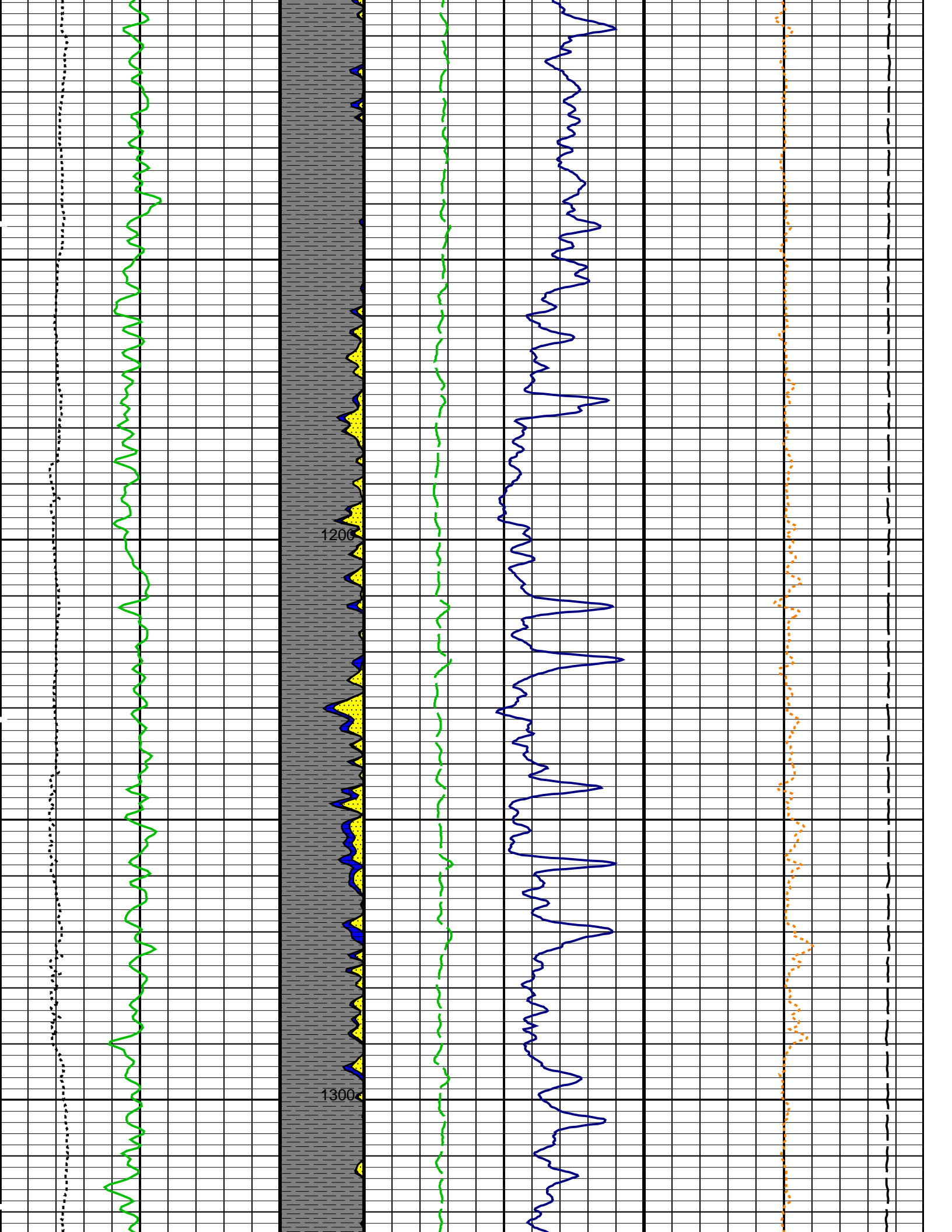


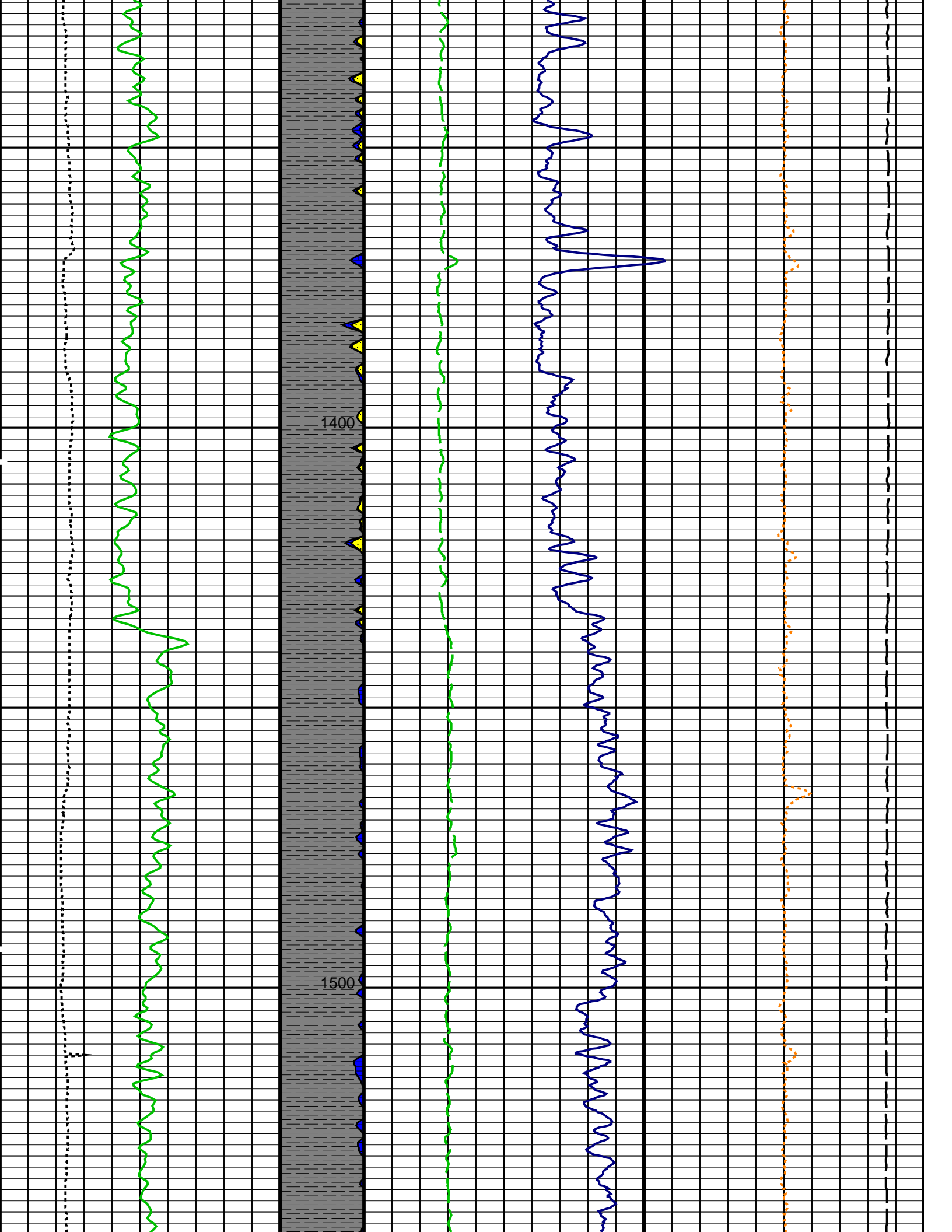
MAIN PASS: *** PLATFORM EXPRESS – LITHOLOGY DENSITY ***

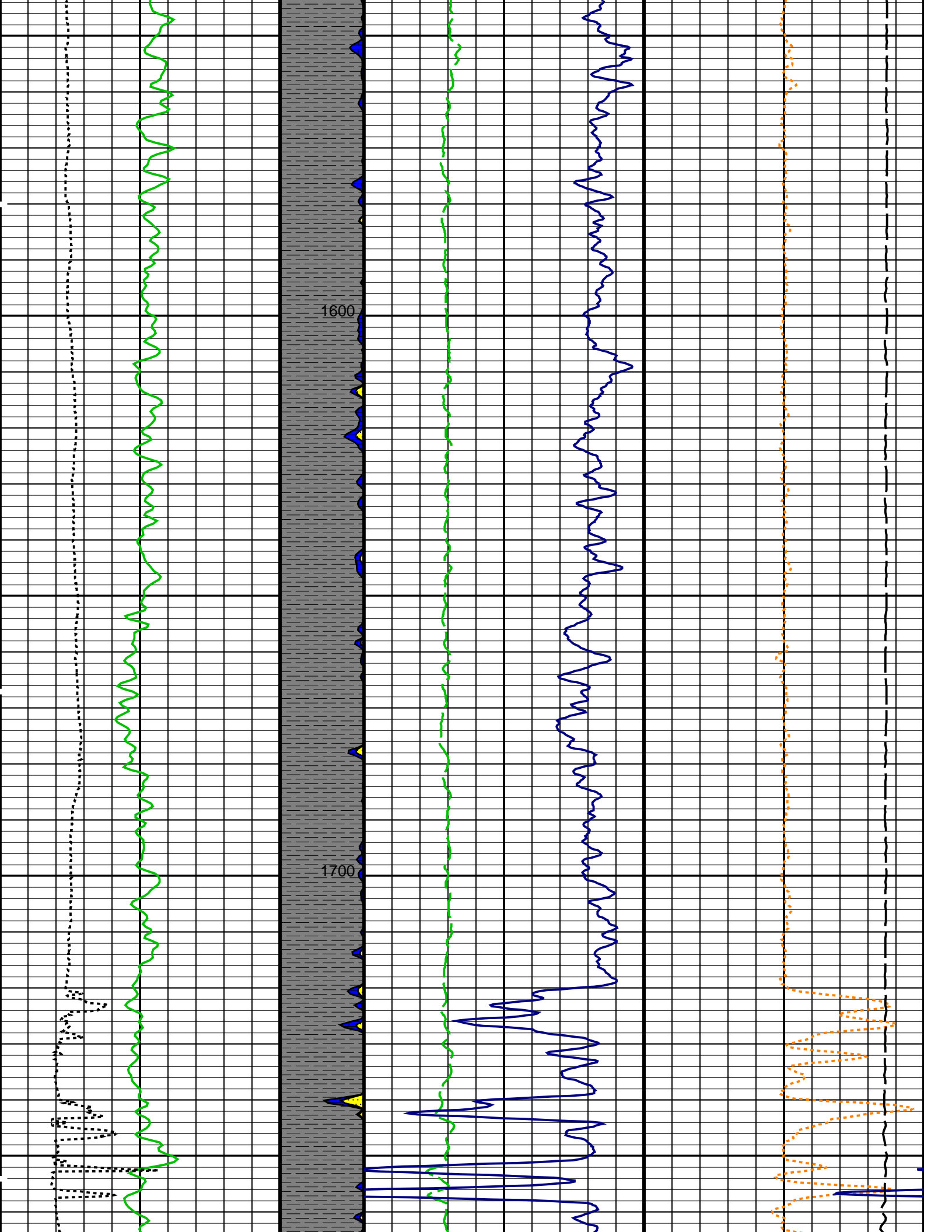


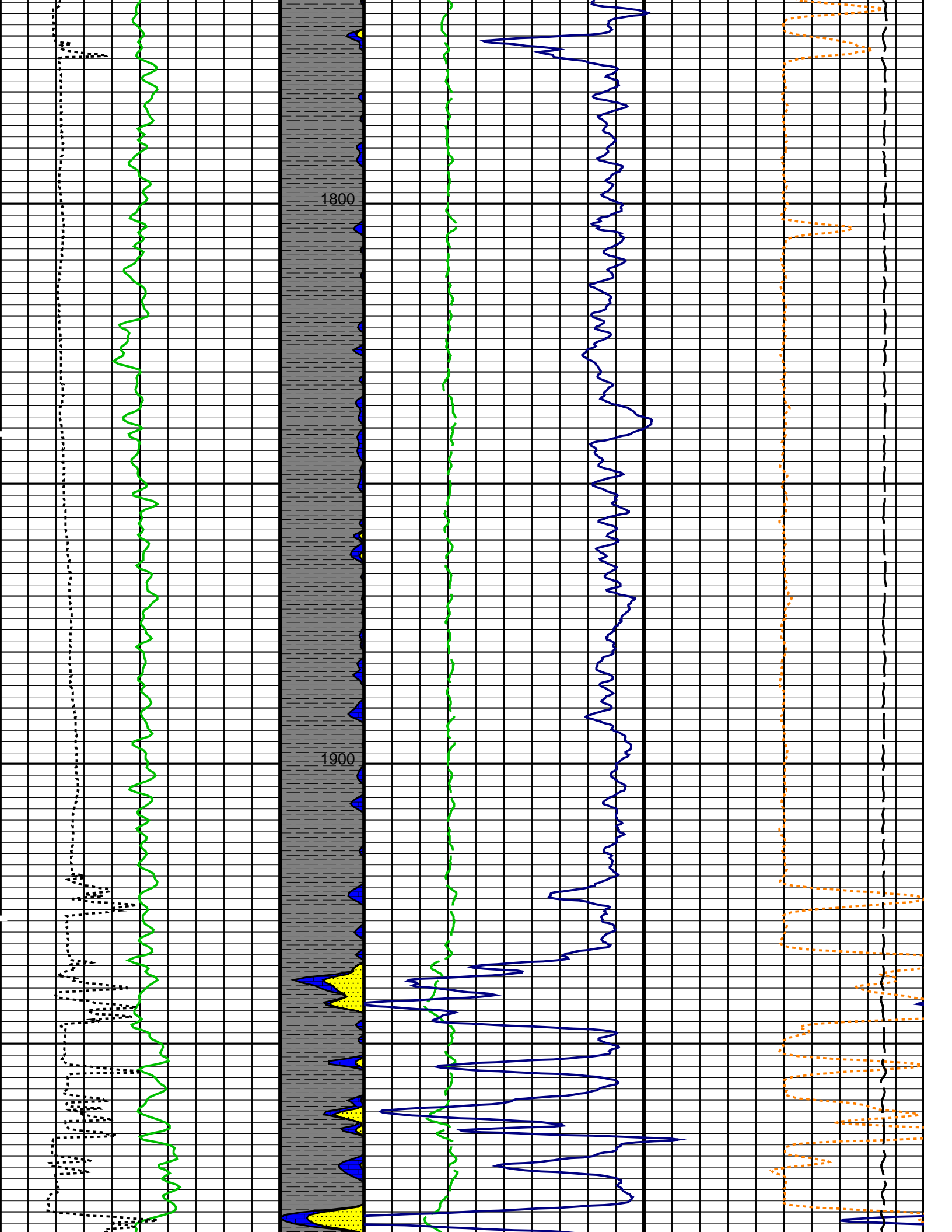


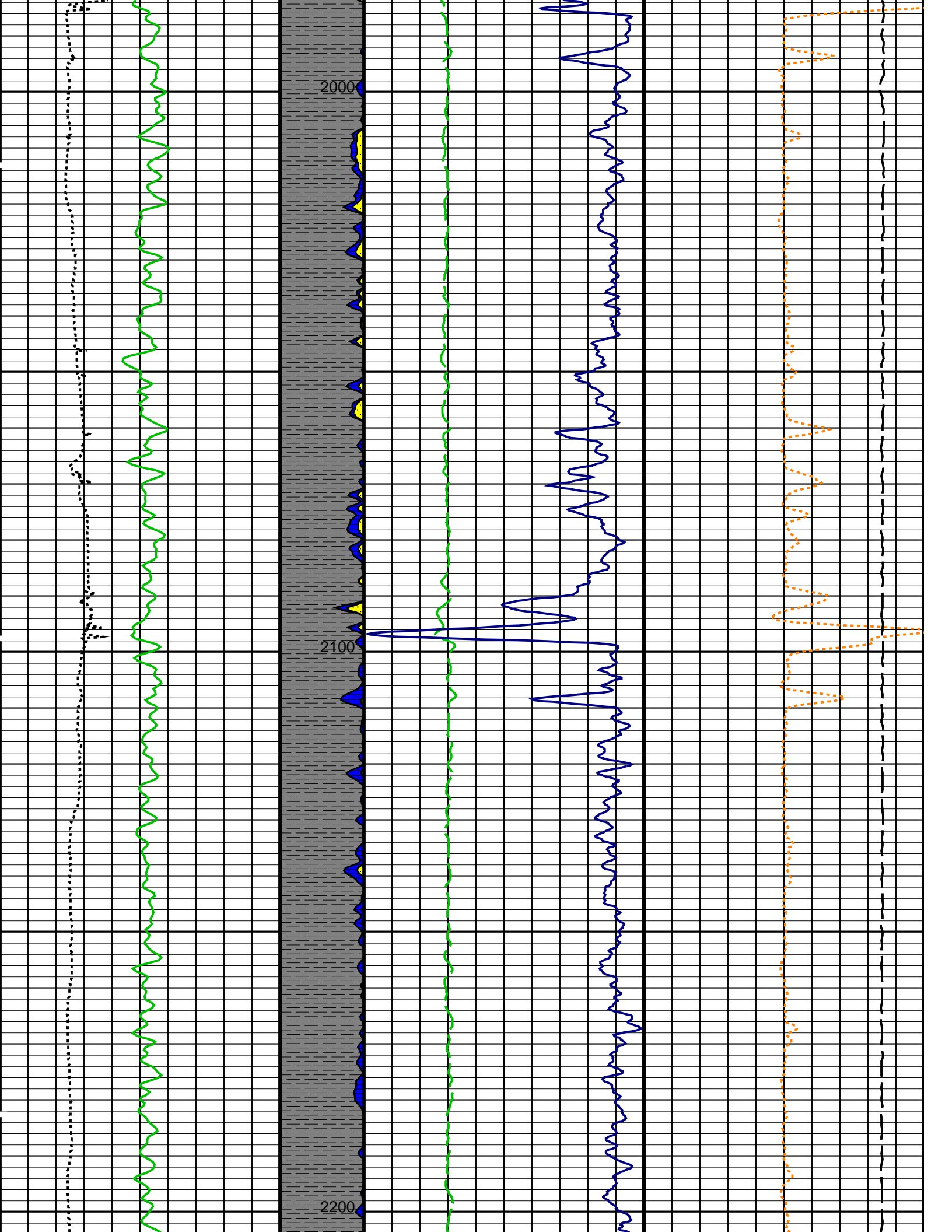


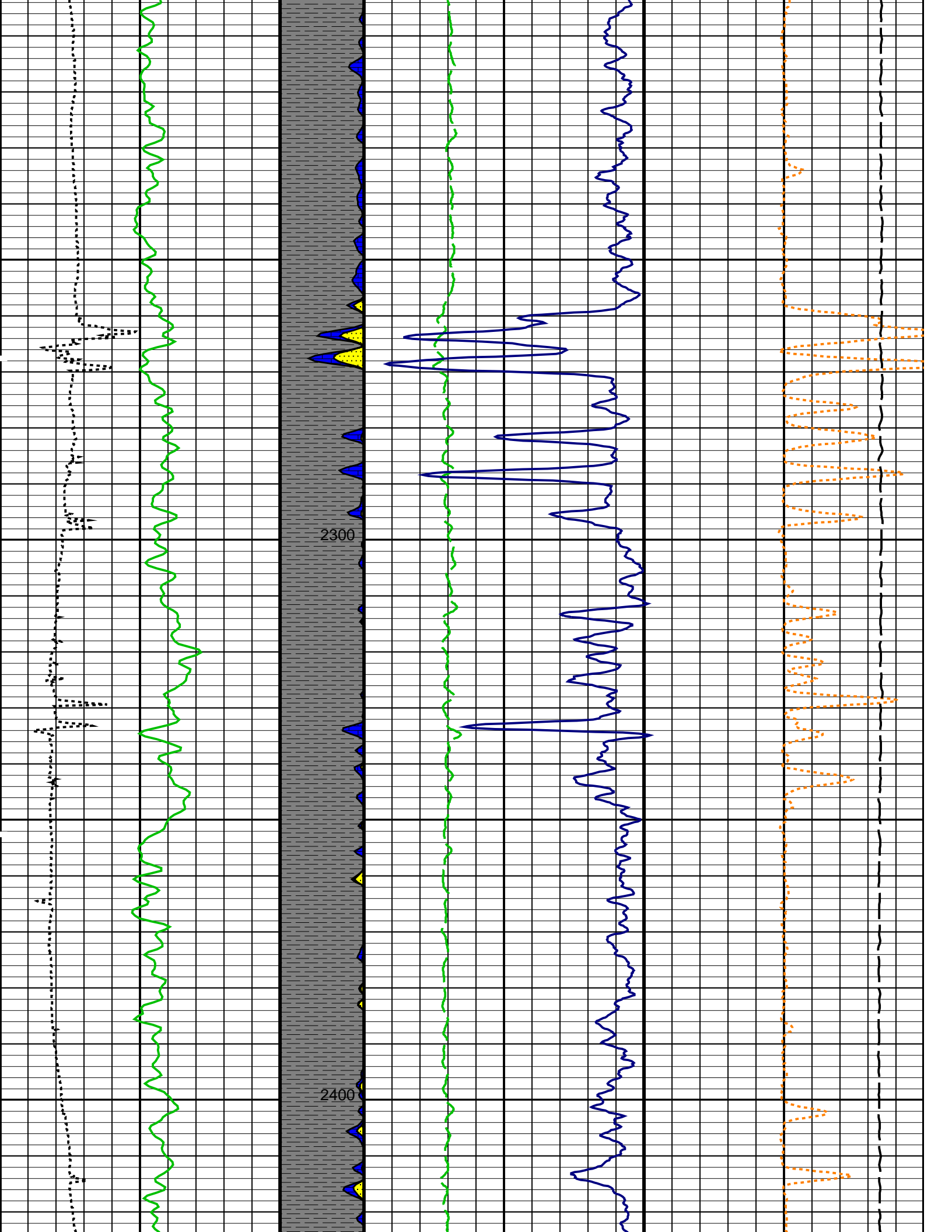


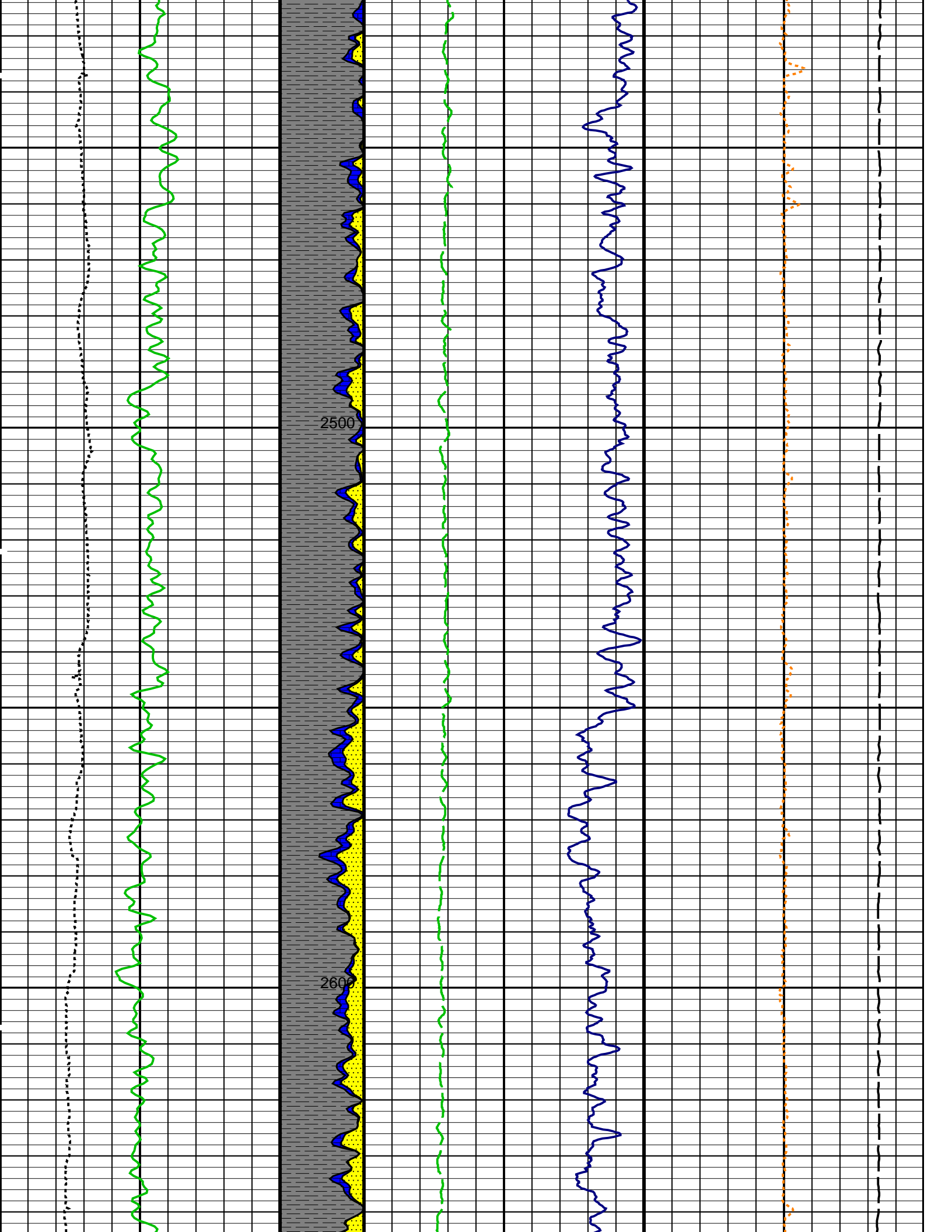


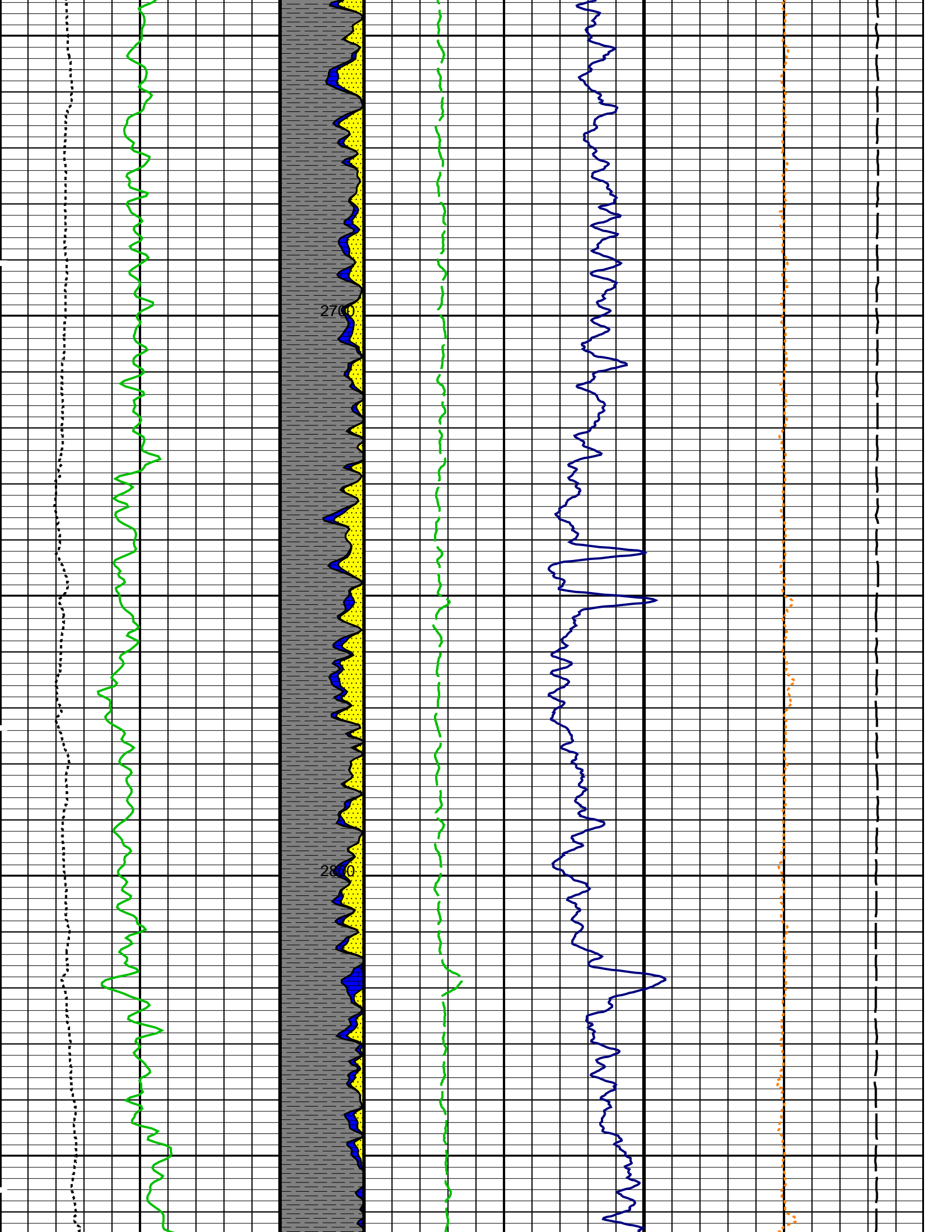


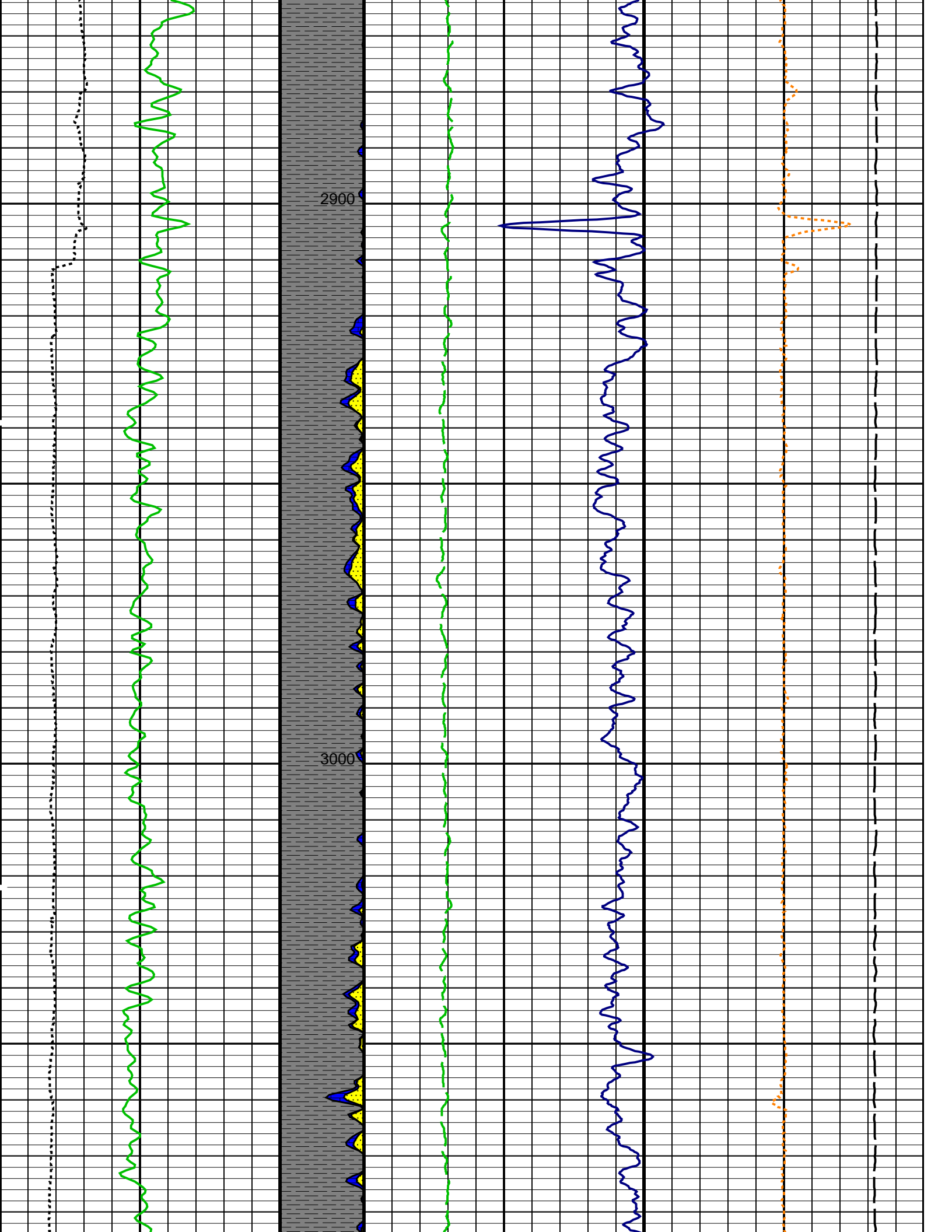


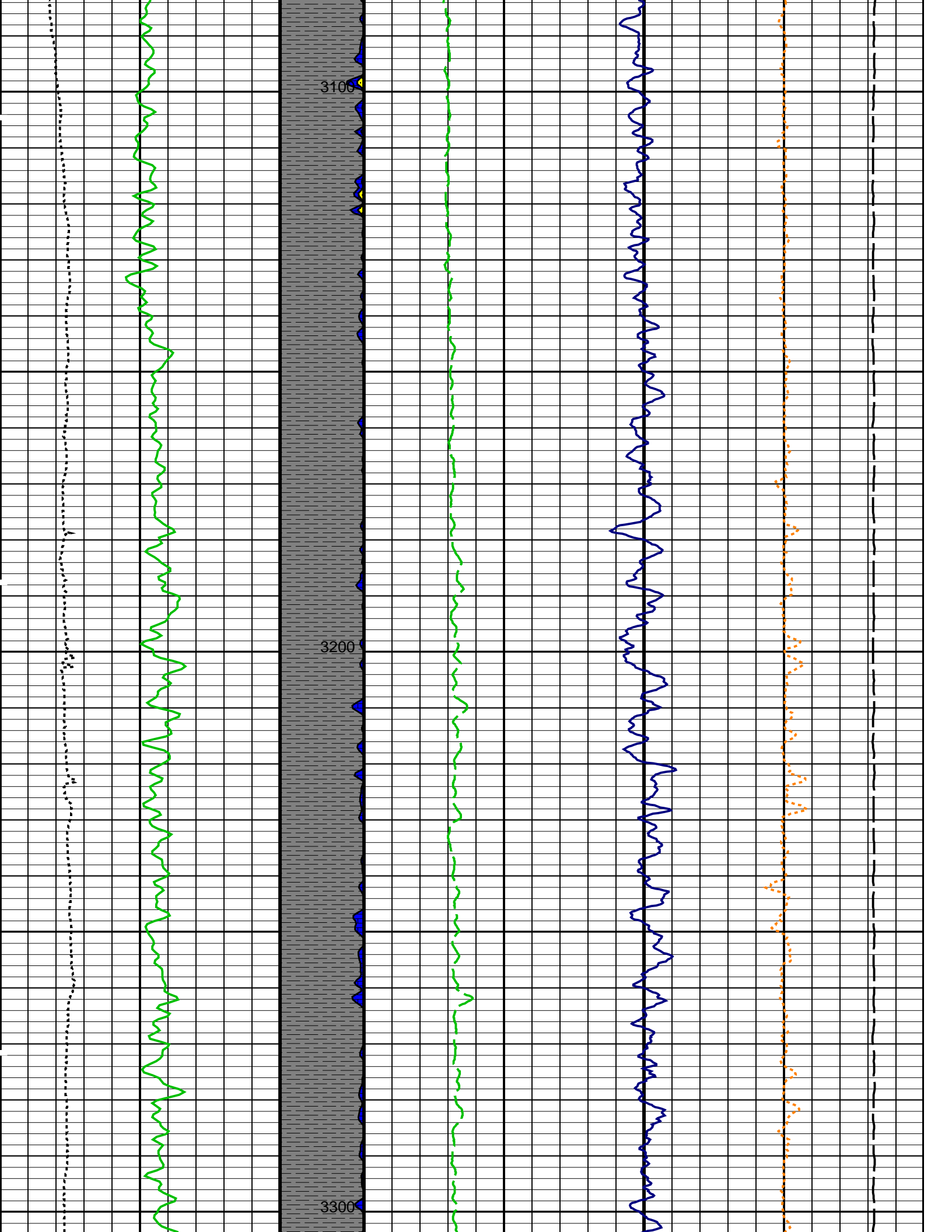


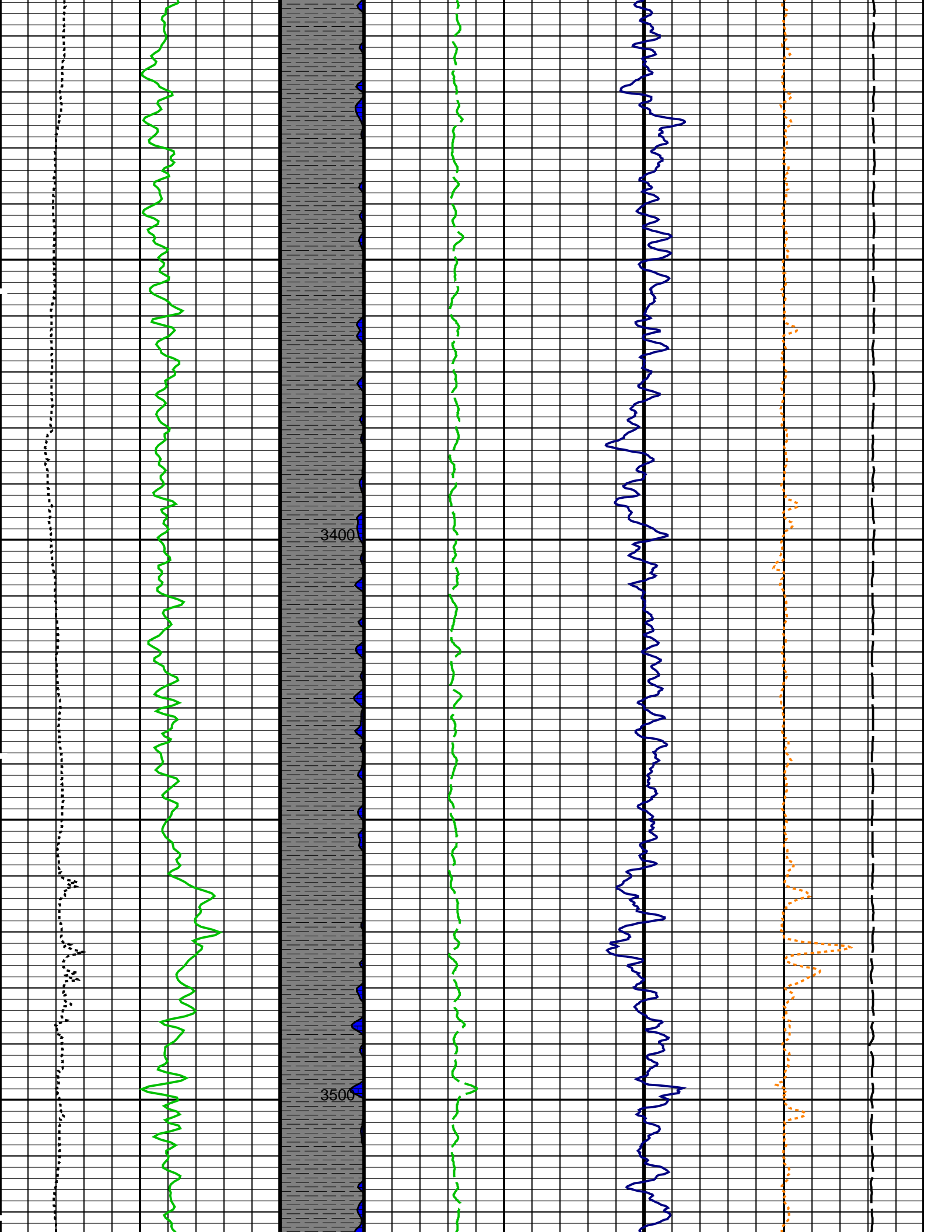


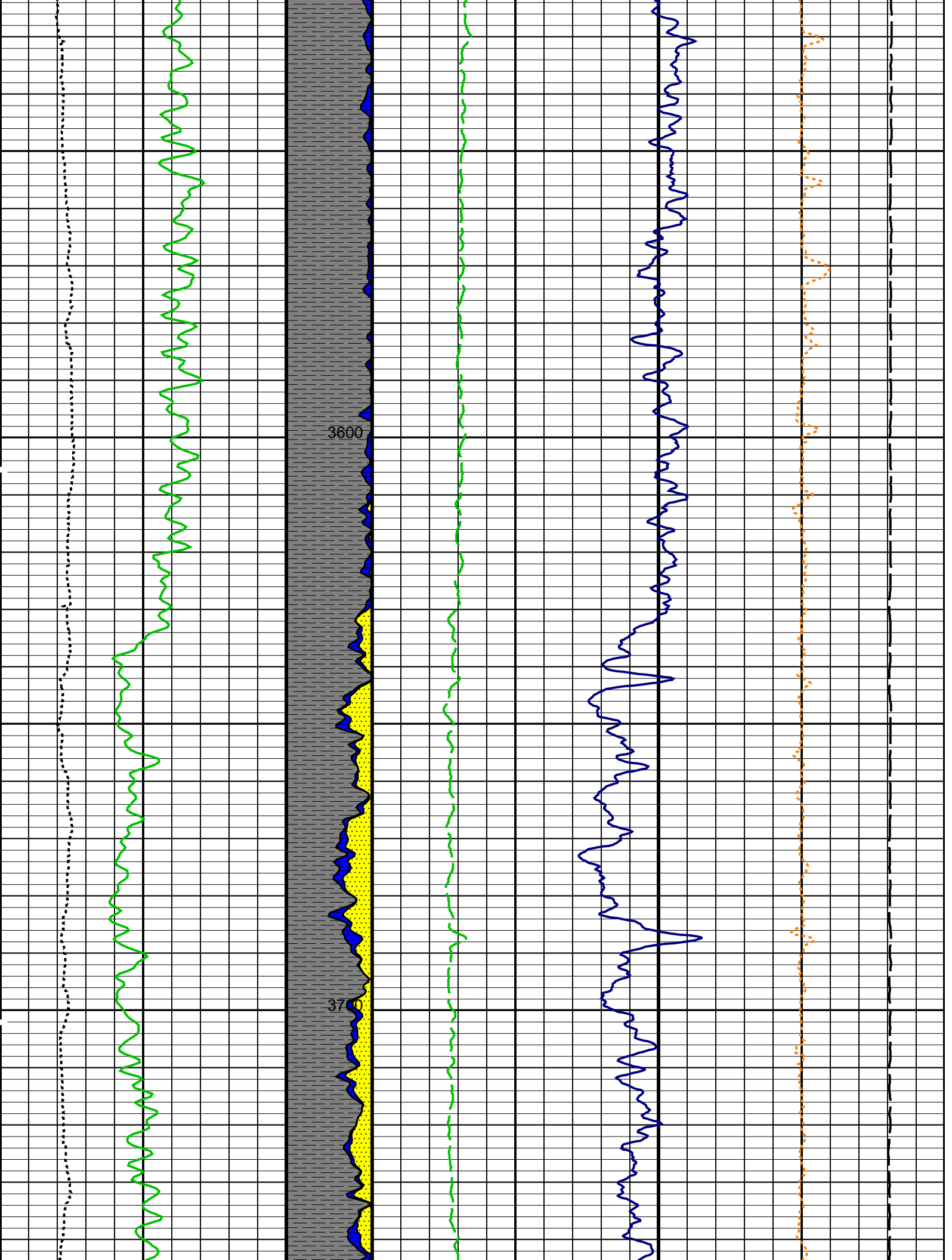


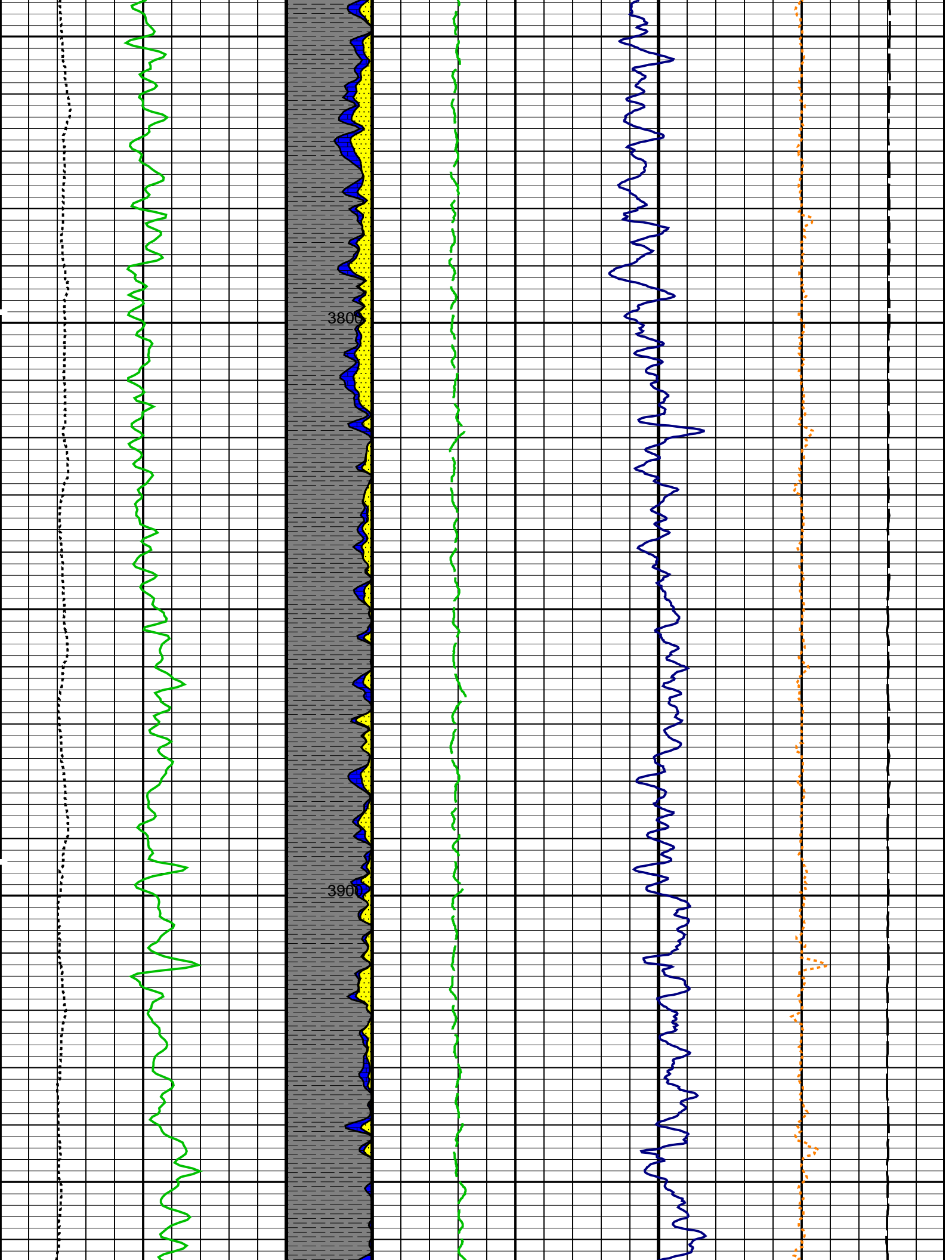


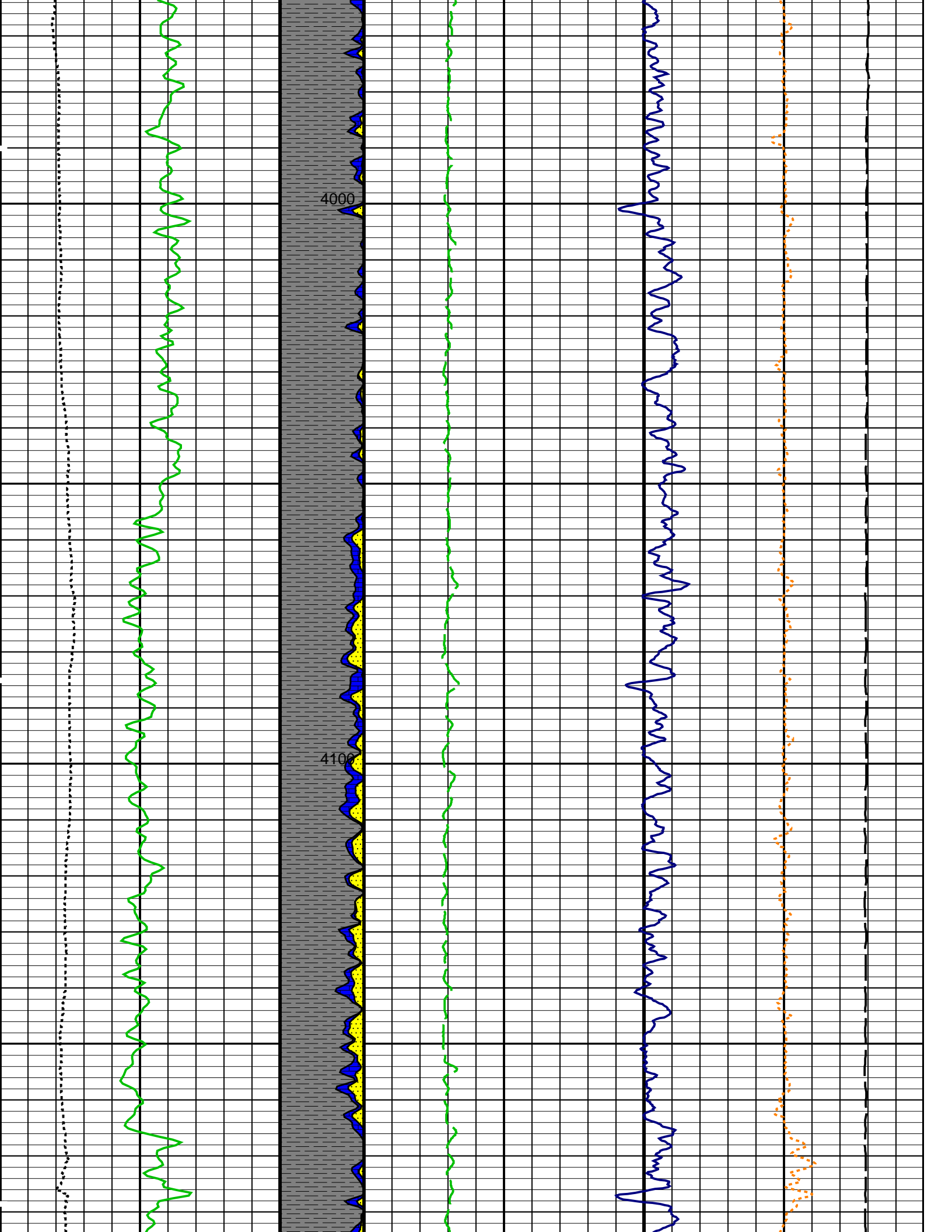


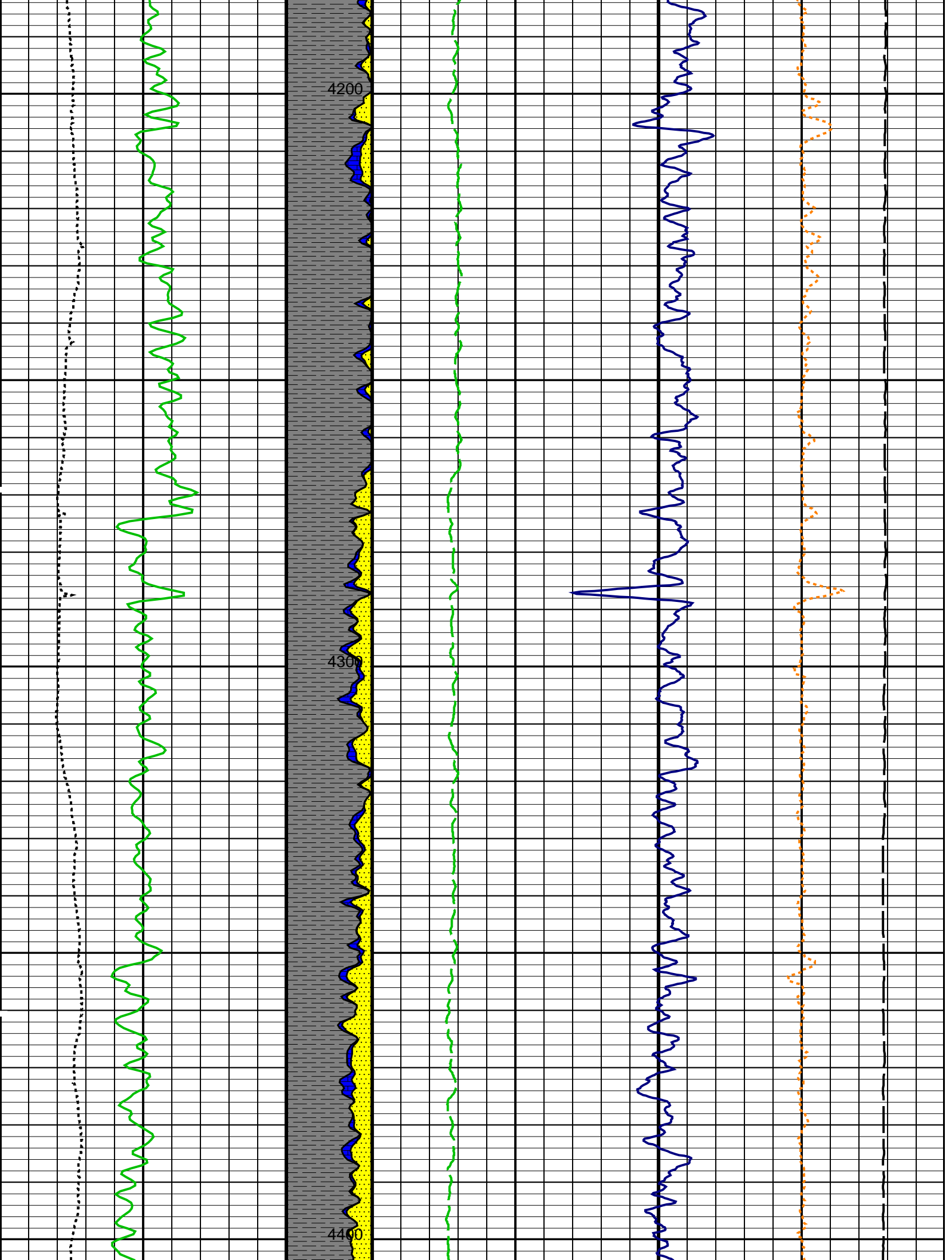


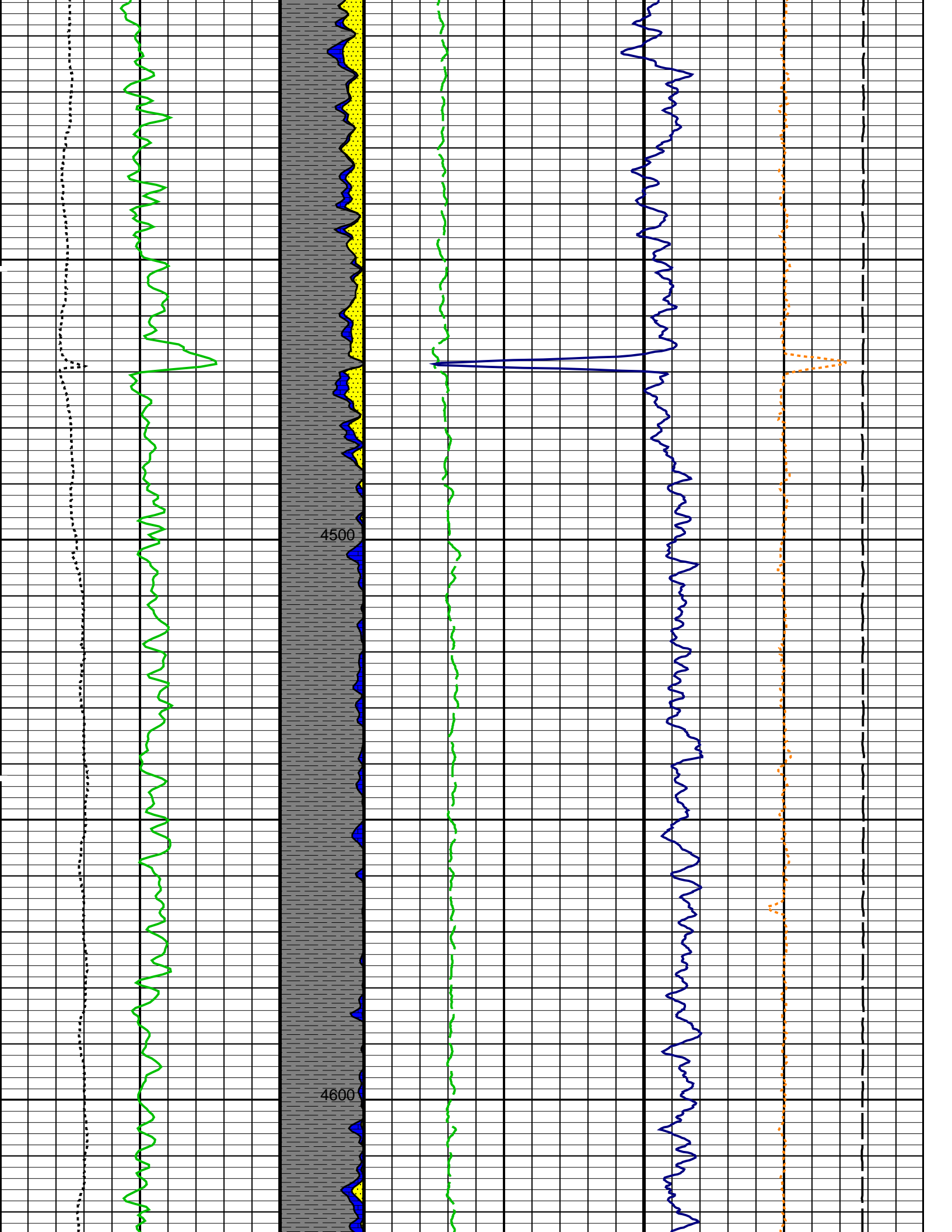


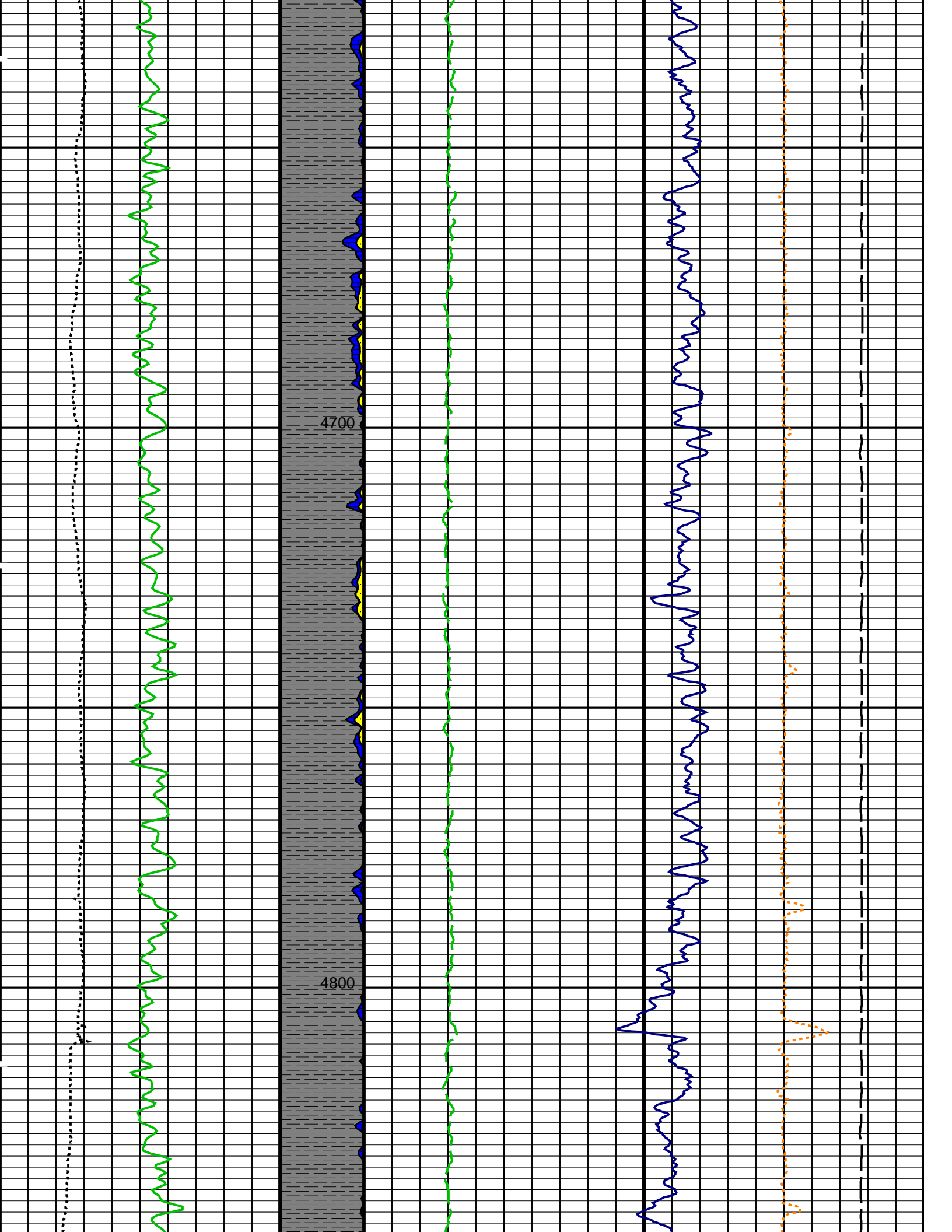


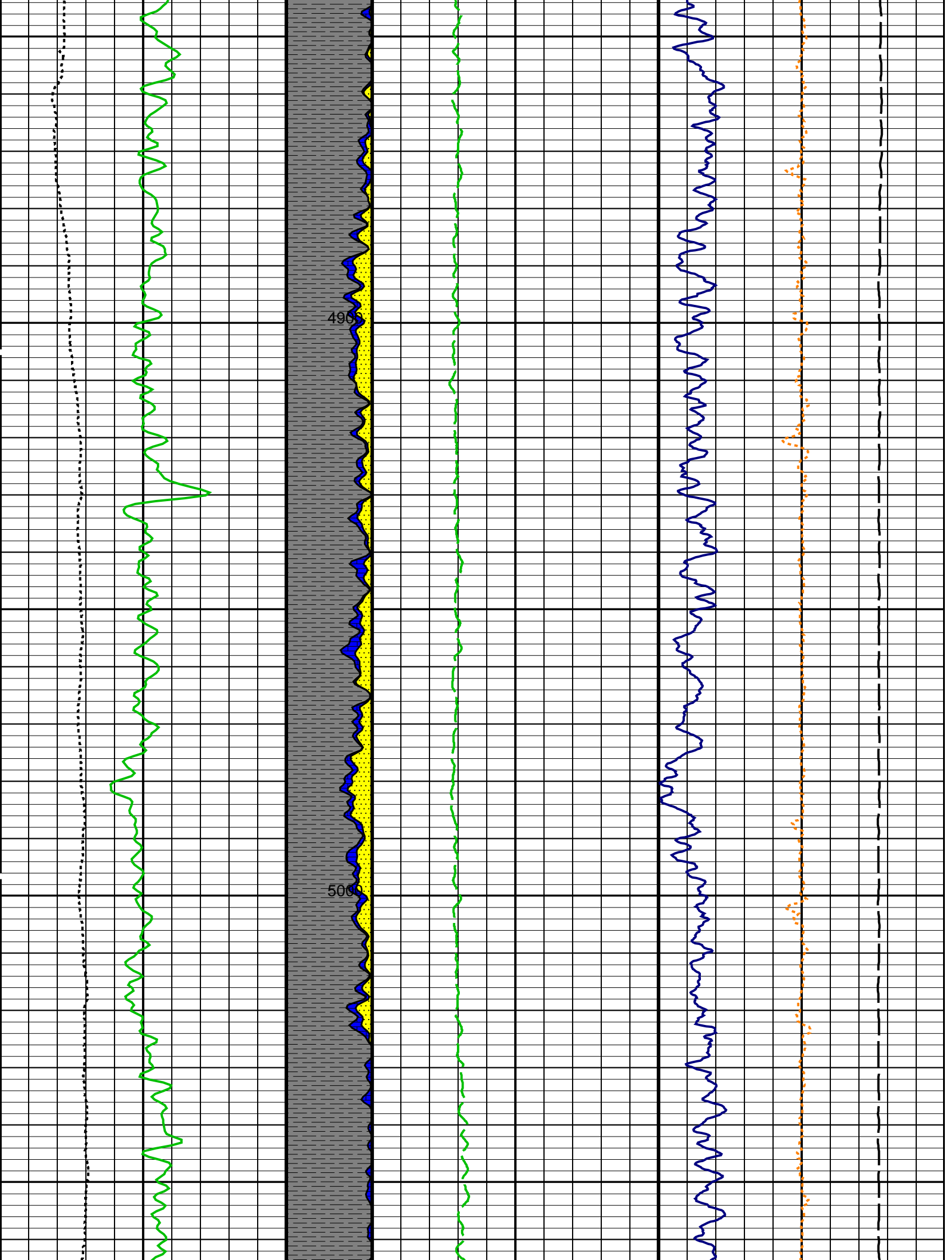


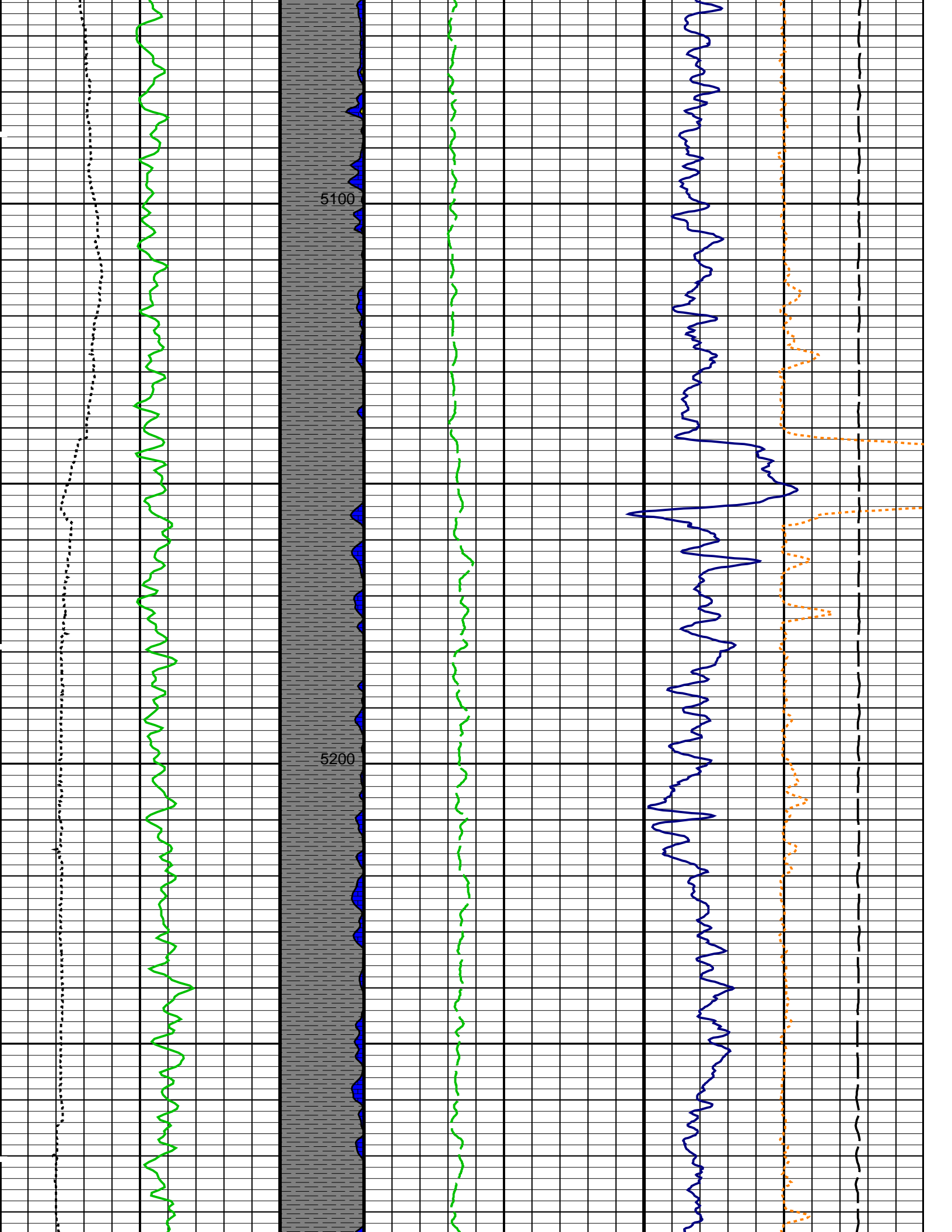


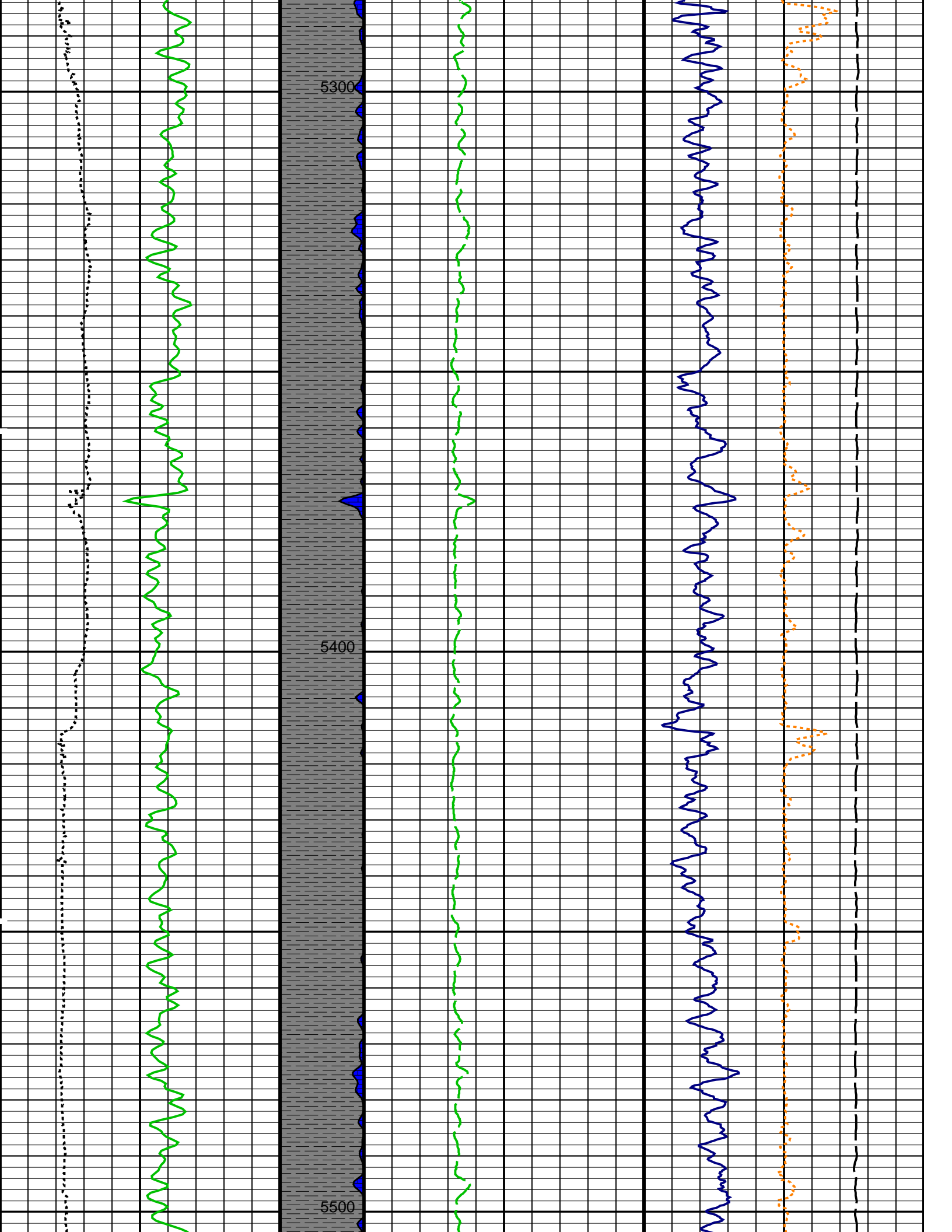


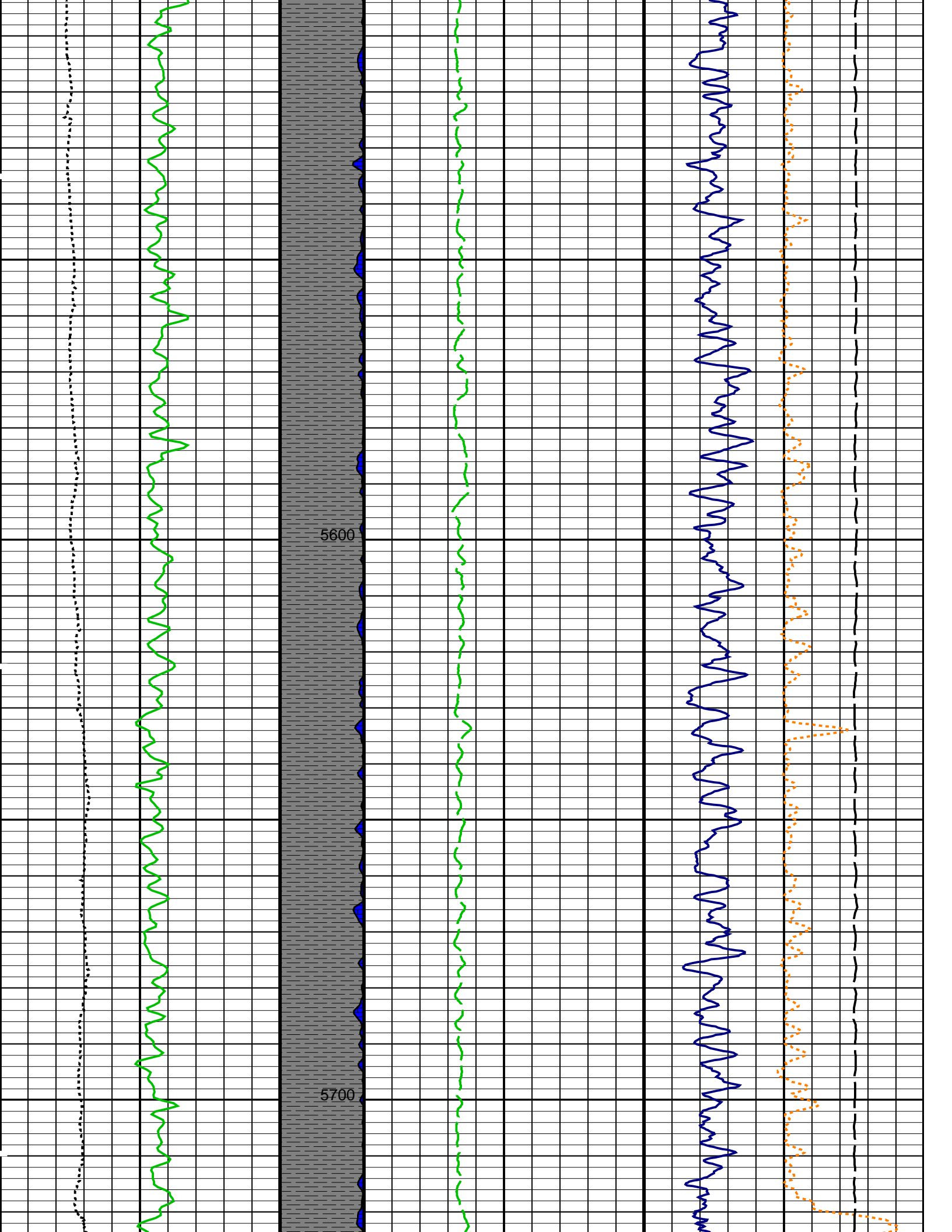


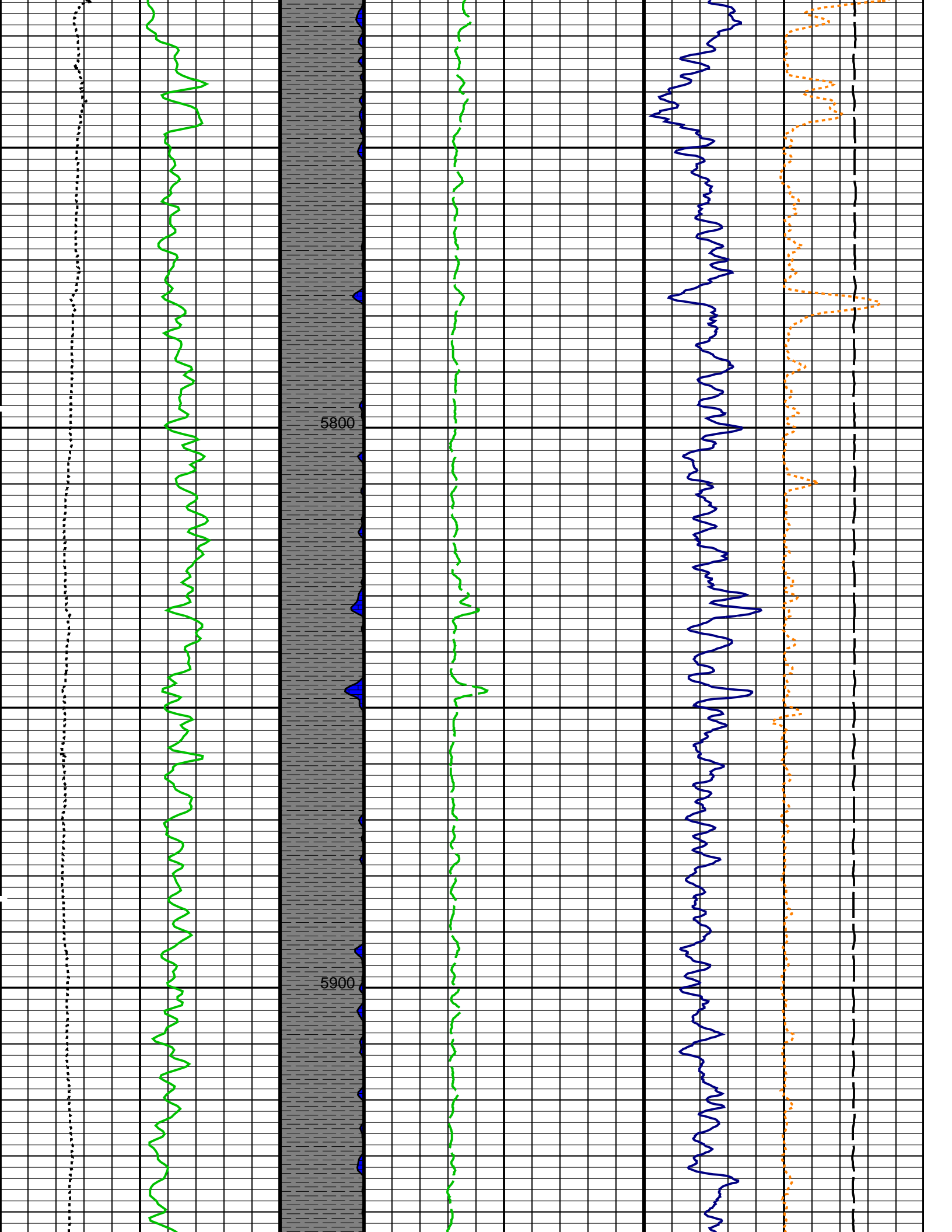


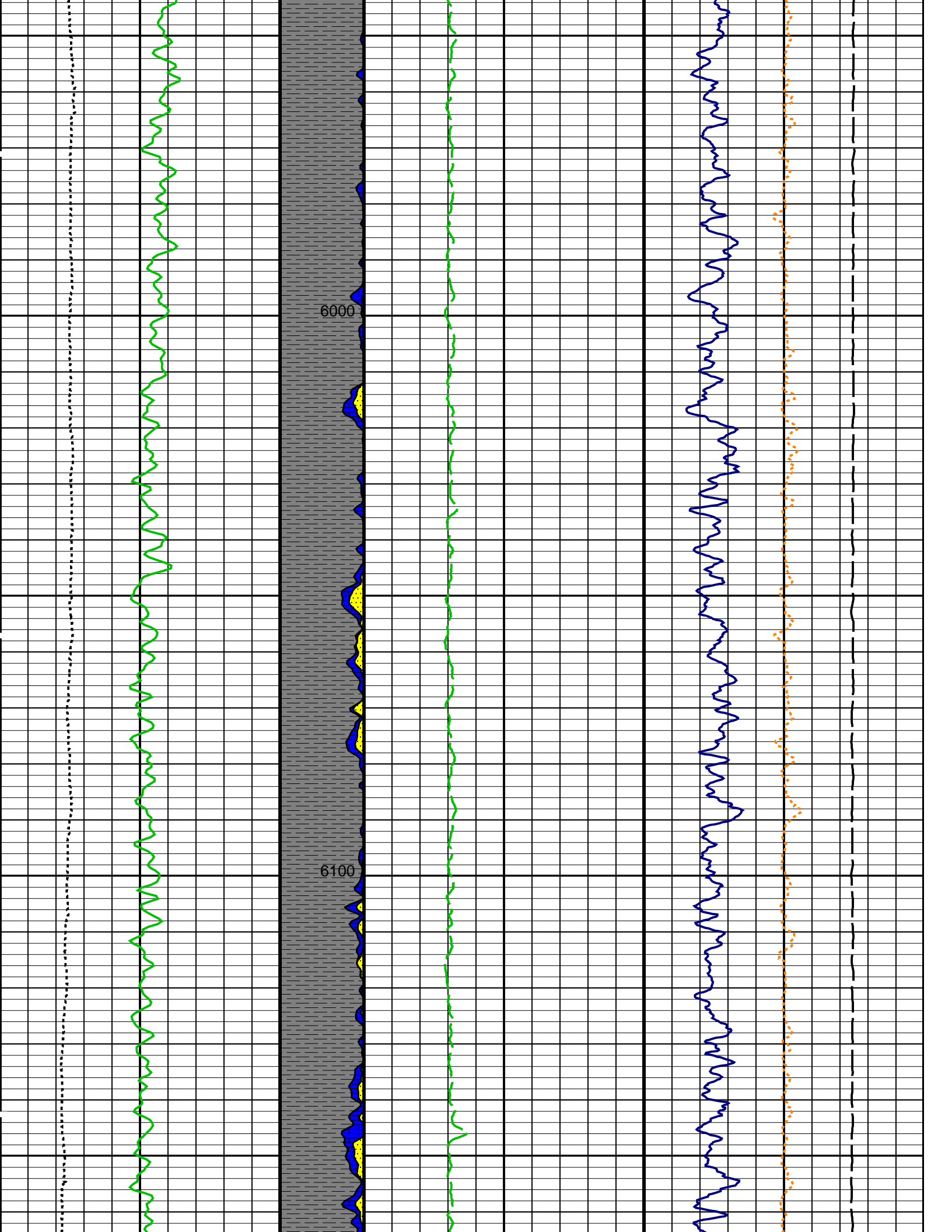


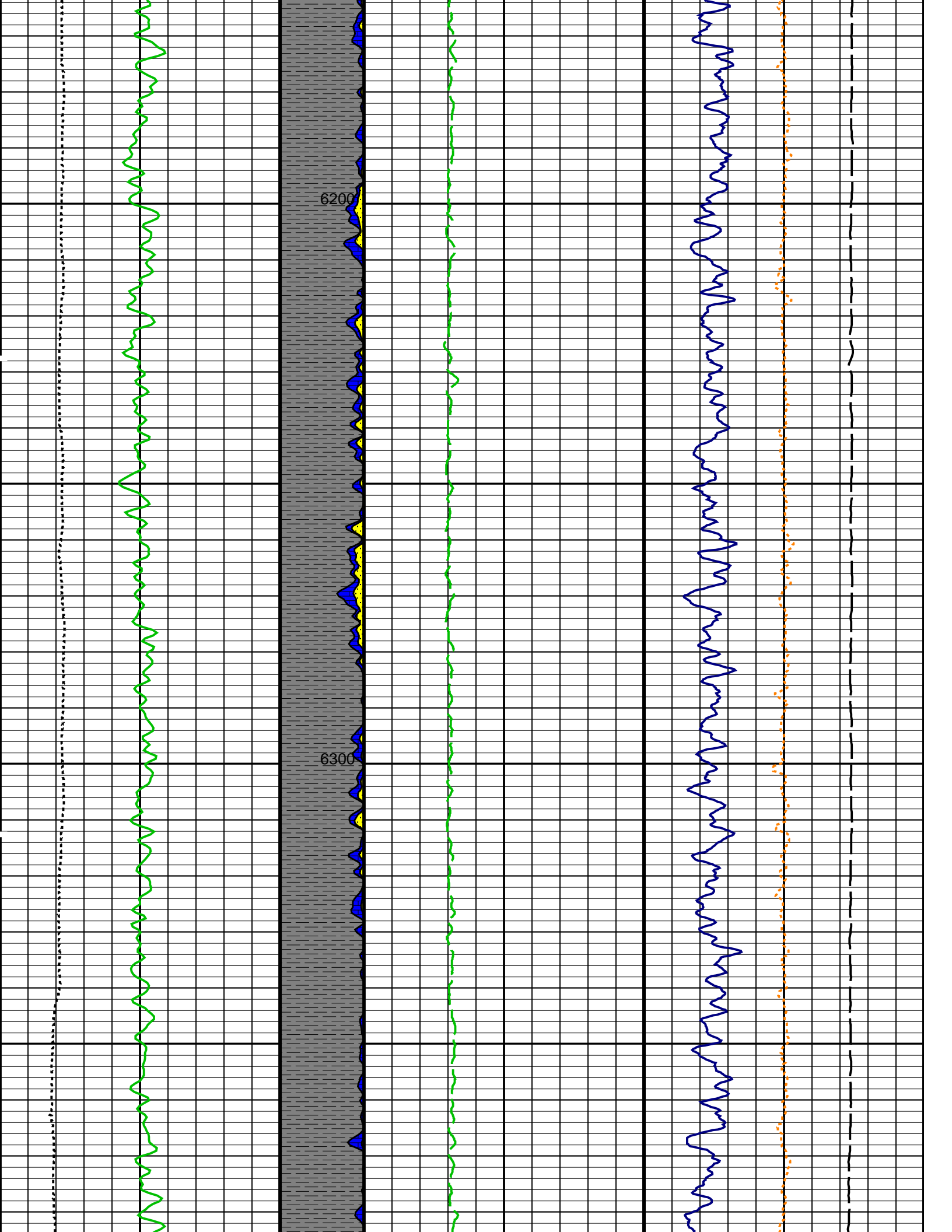


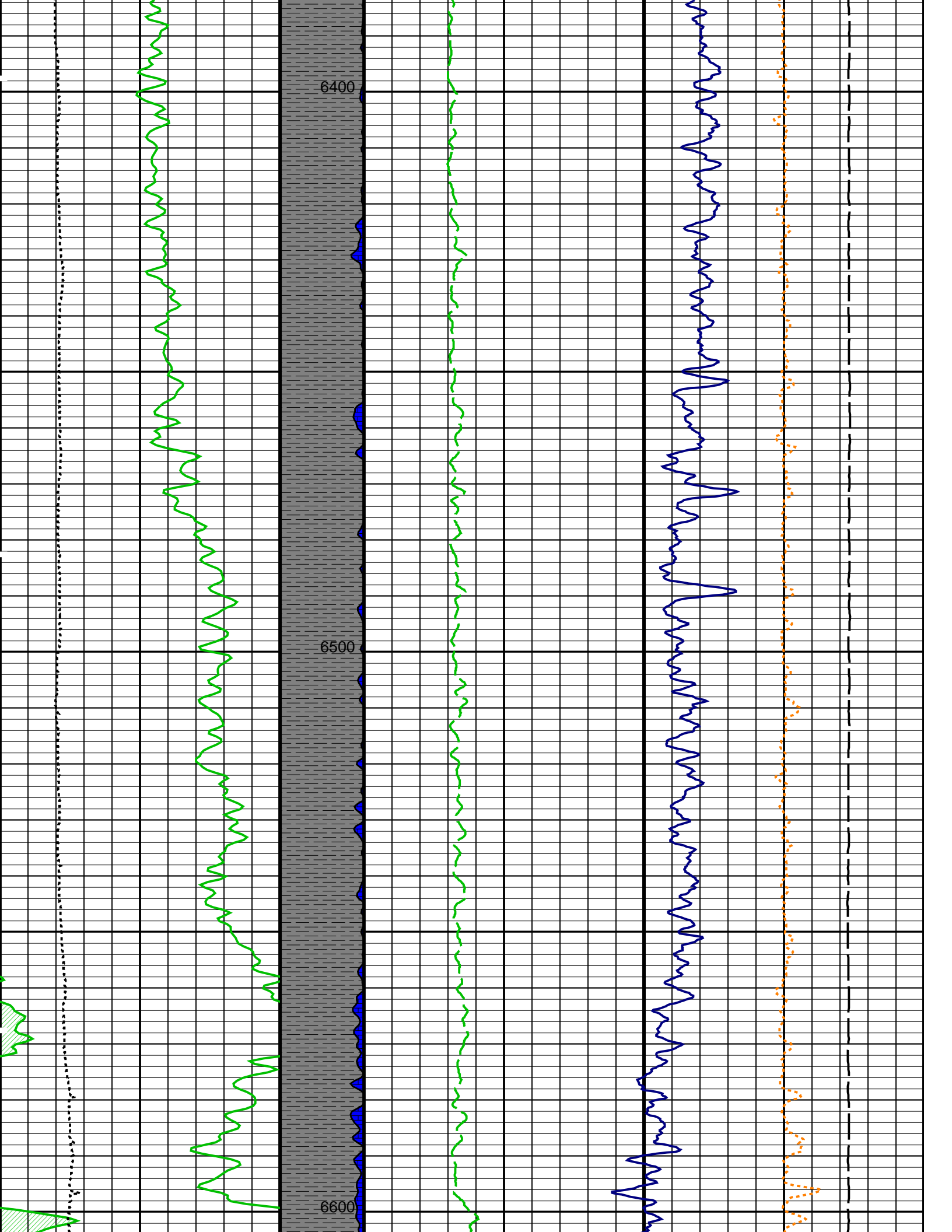


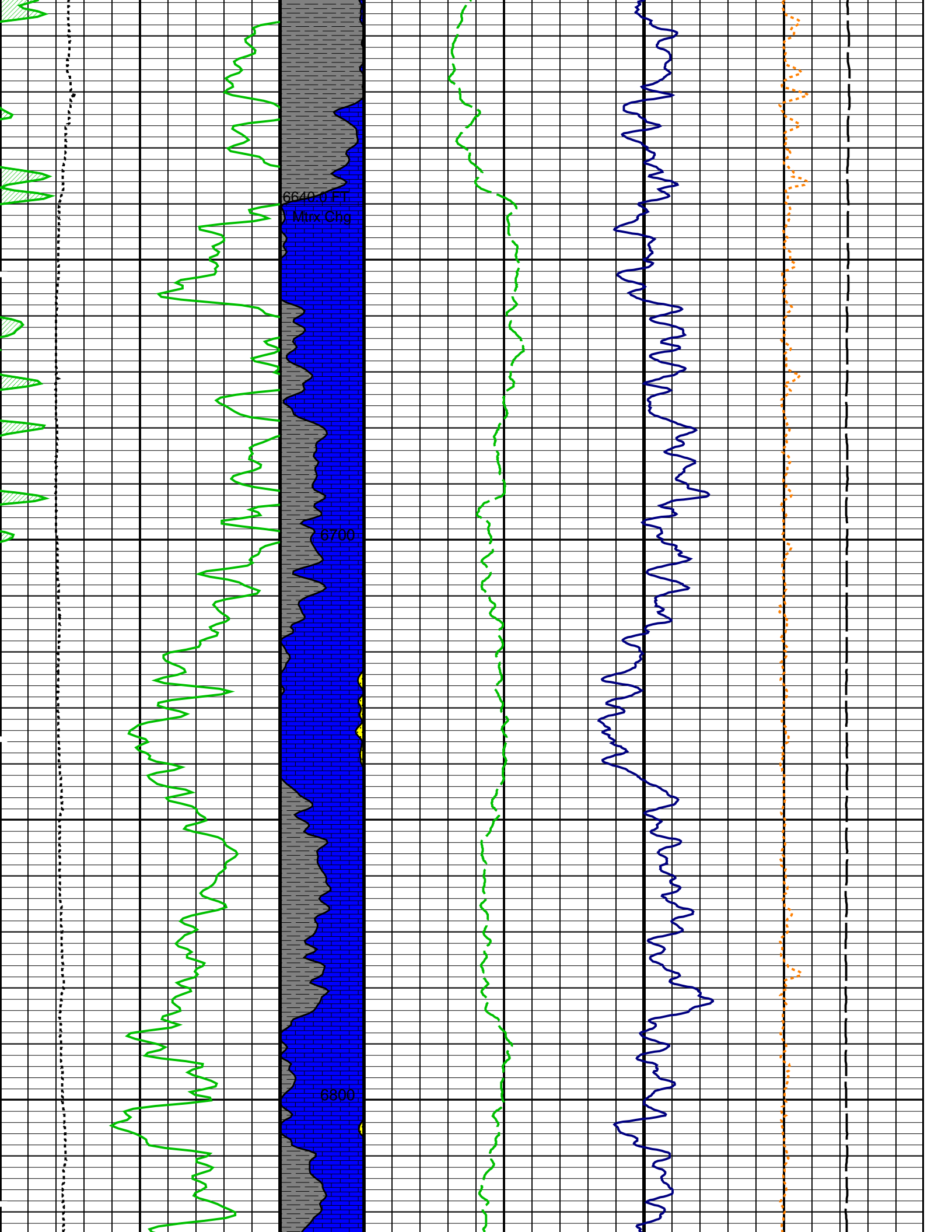


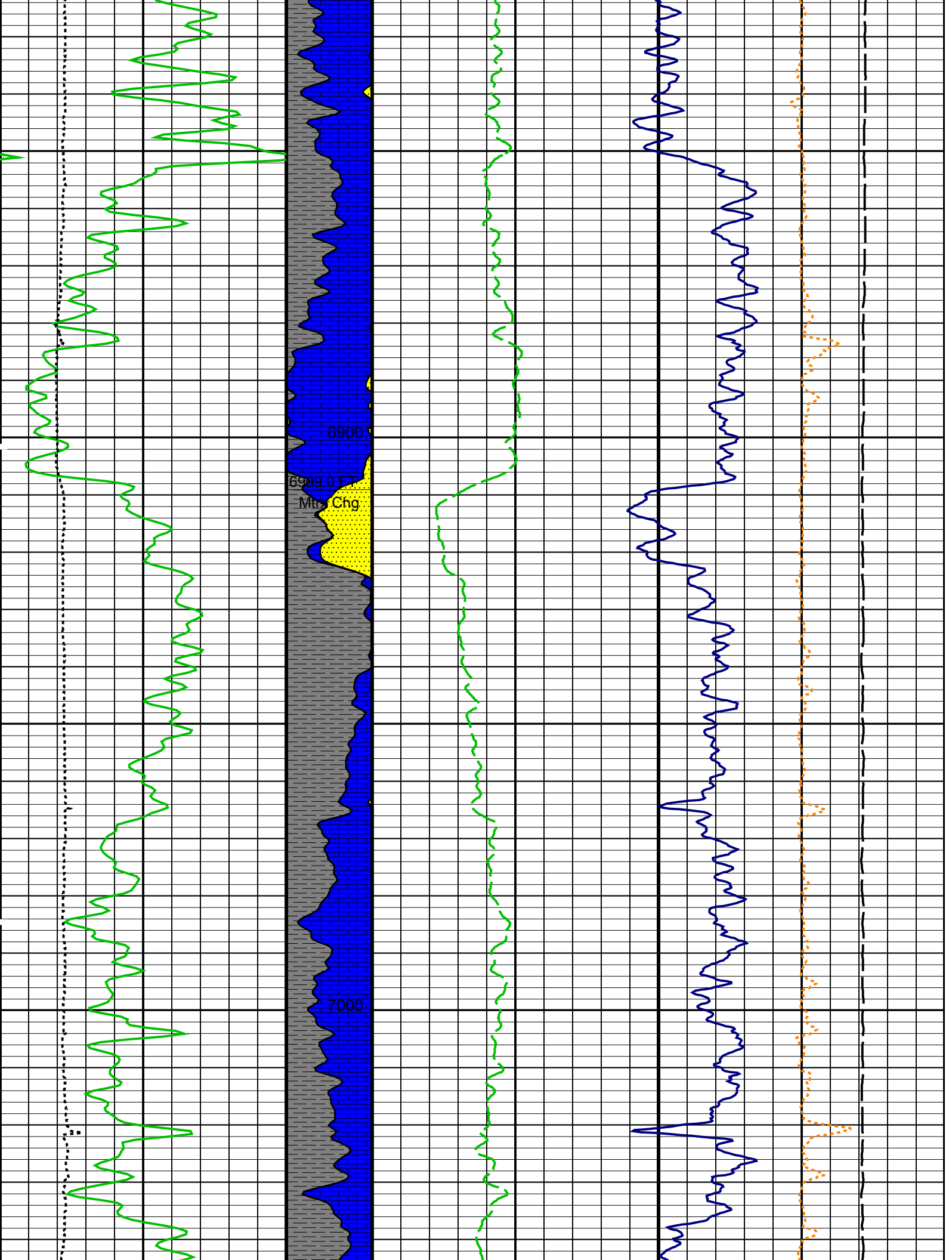


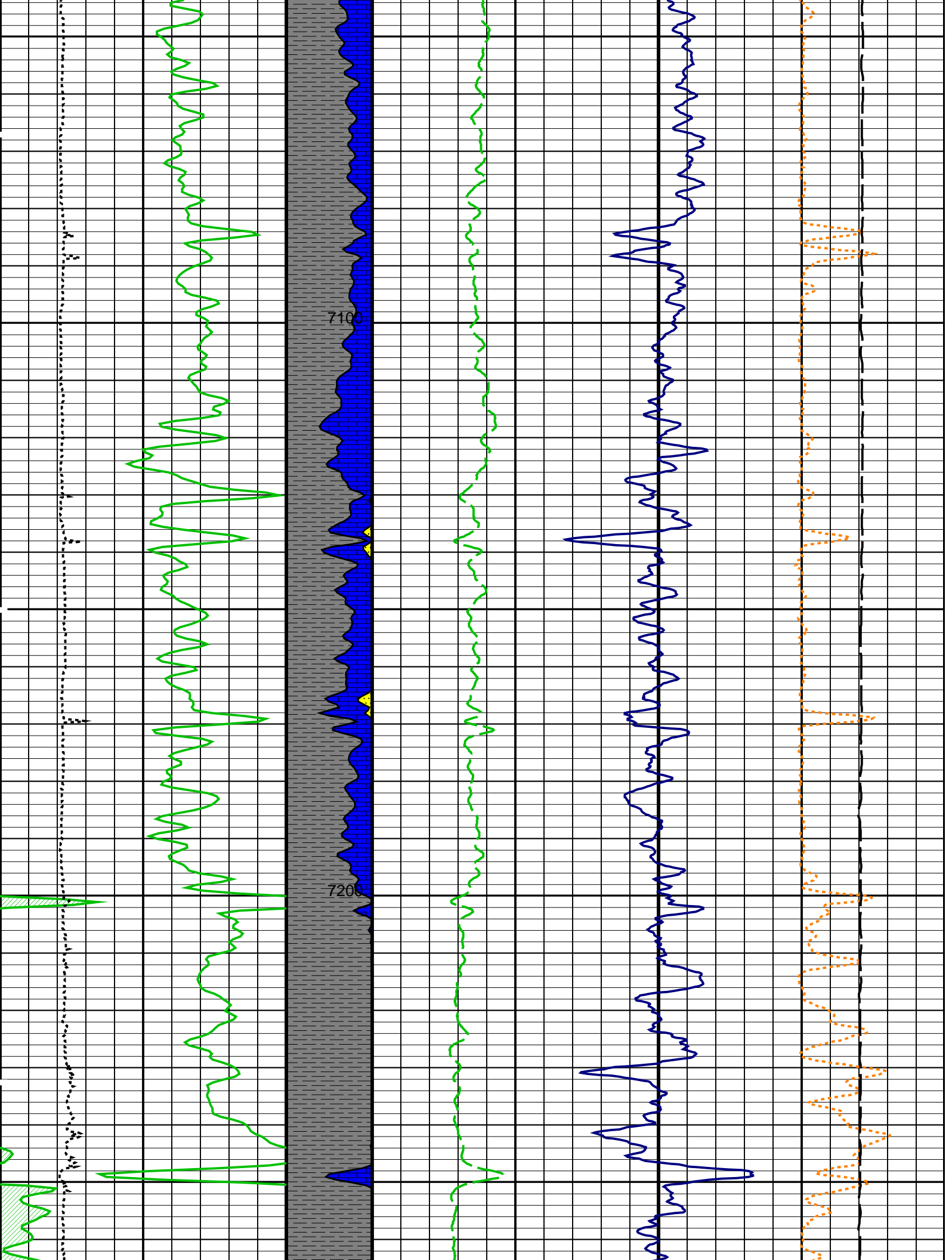


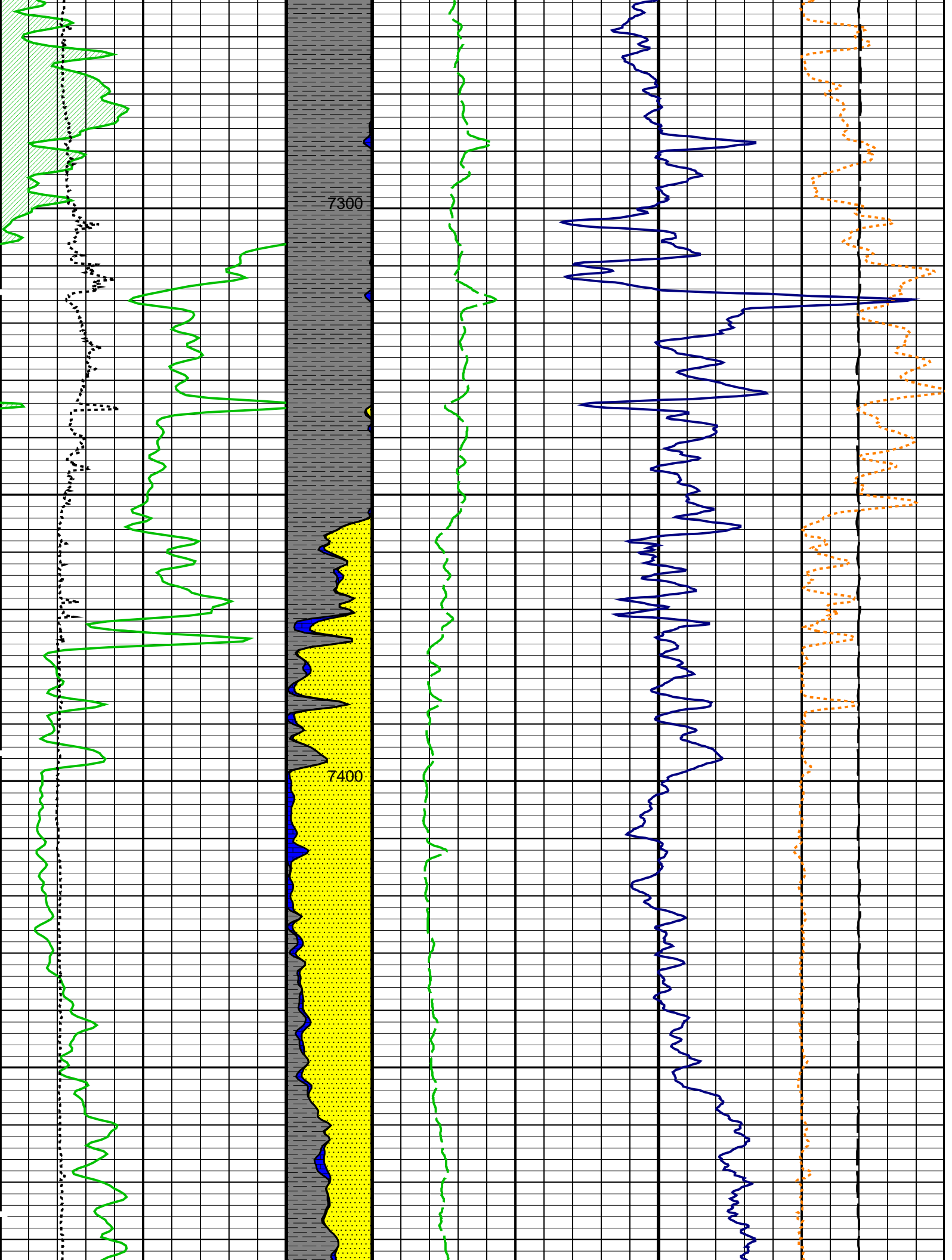


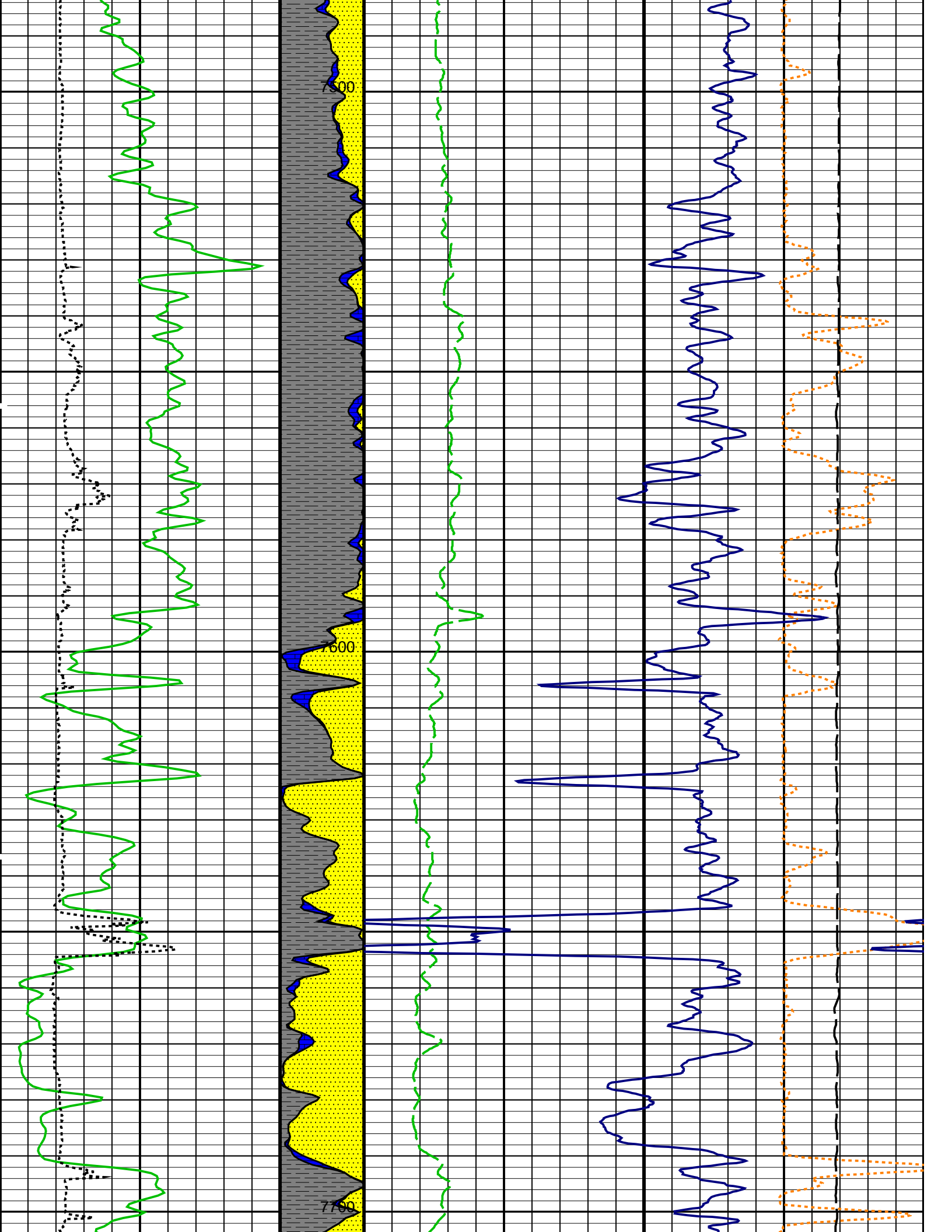


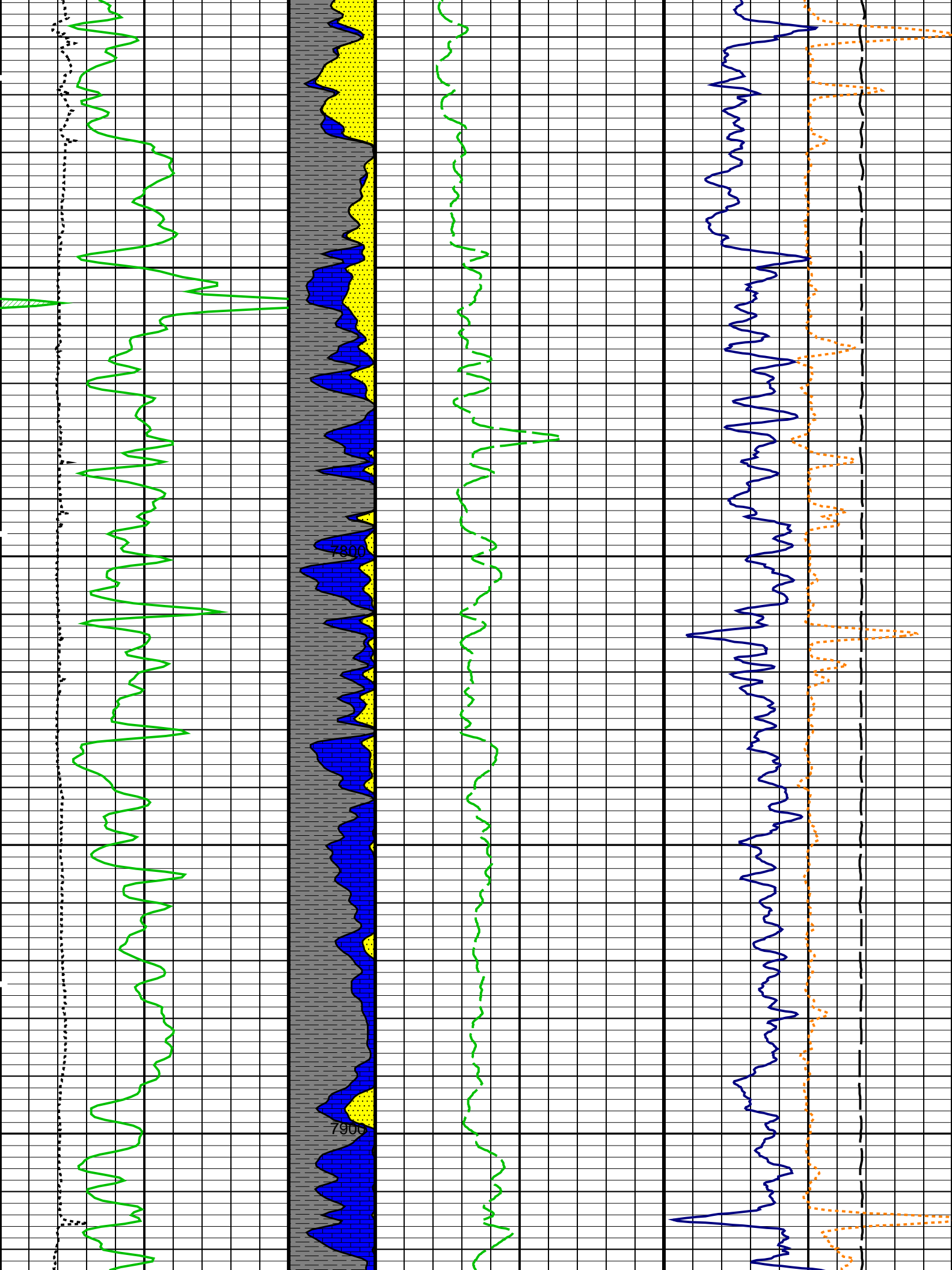


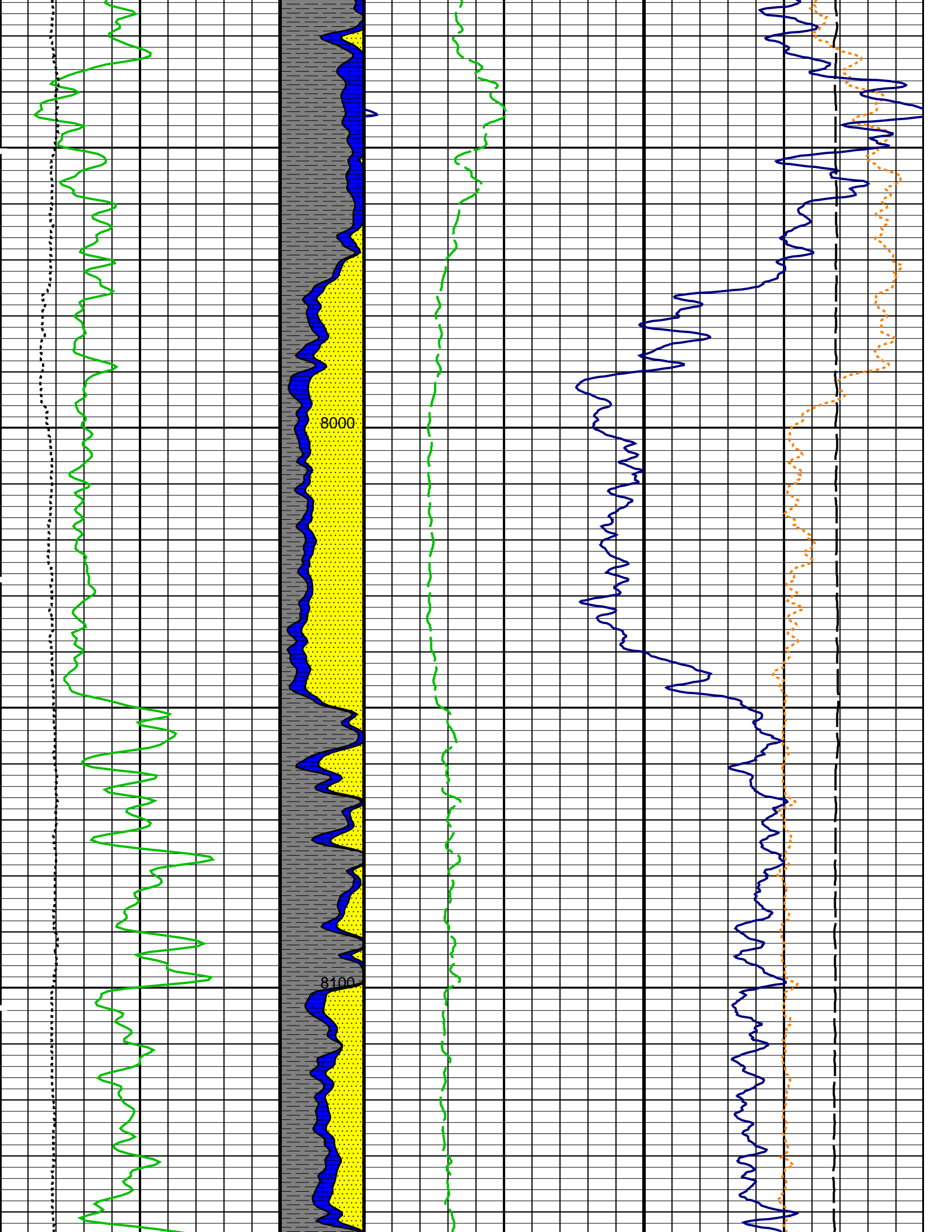


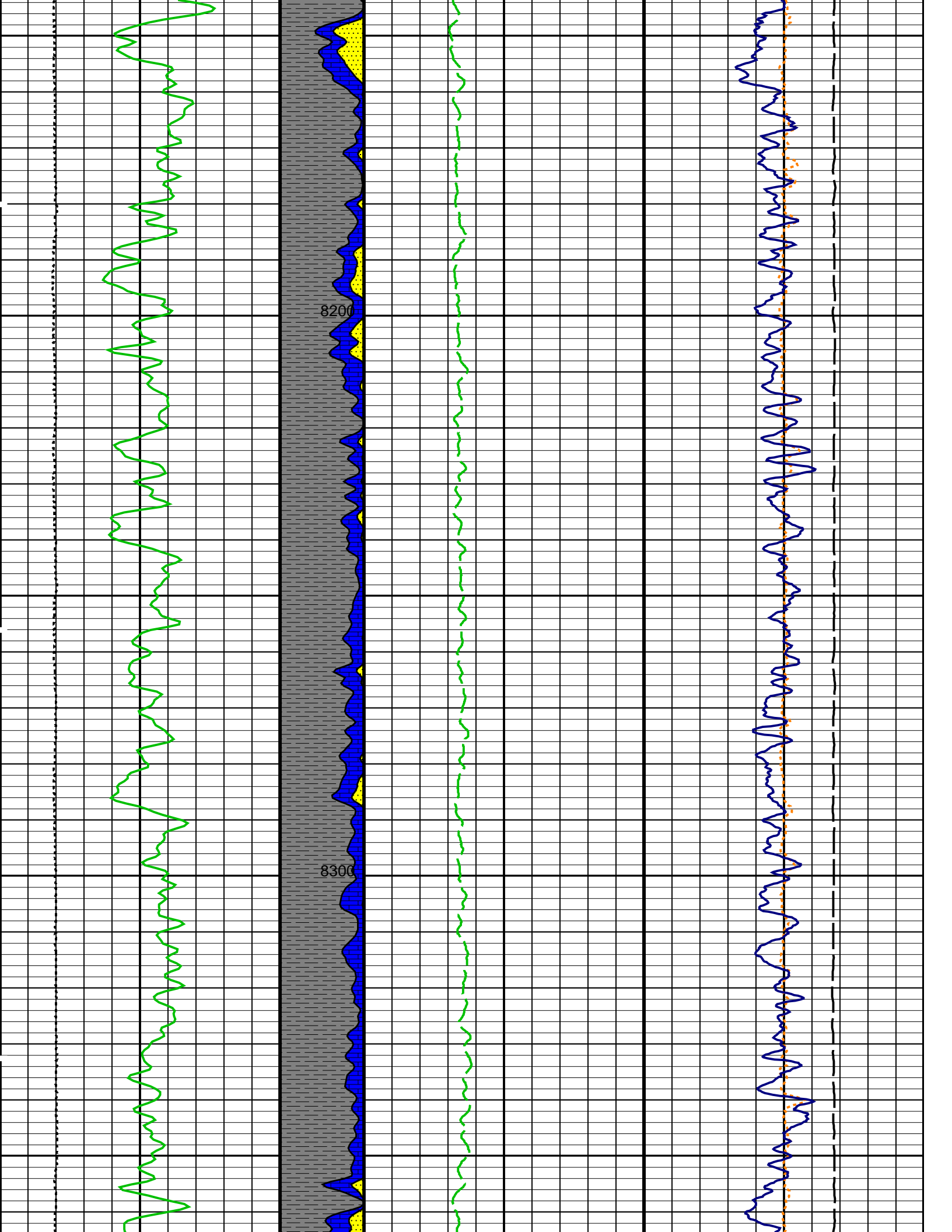


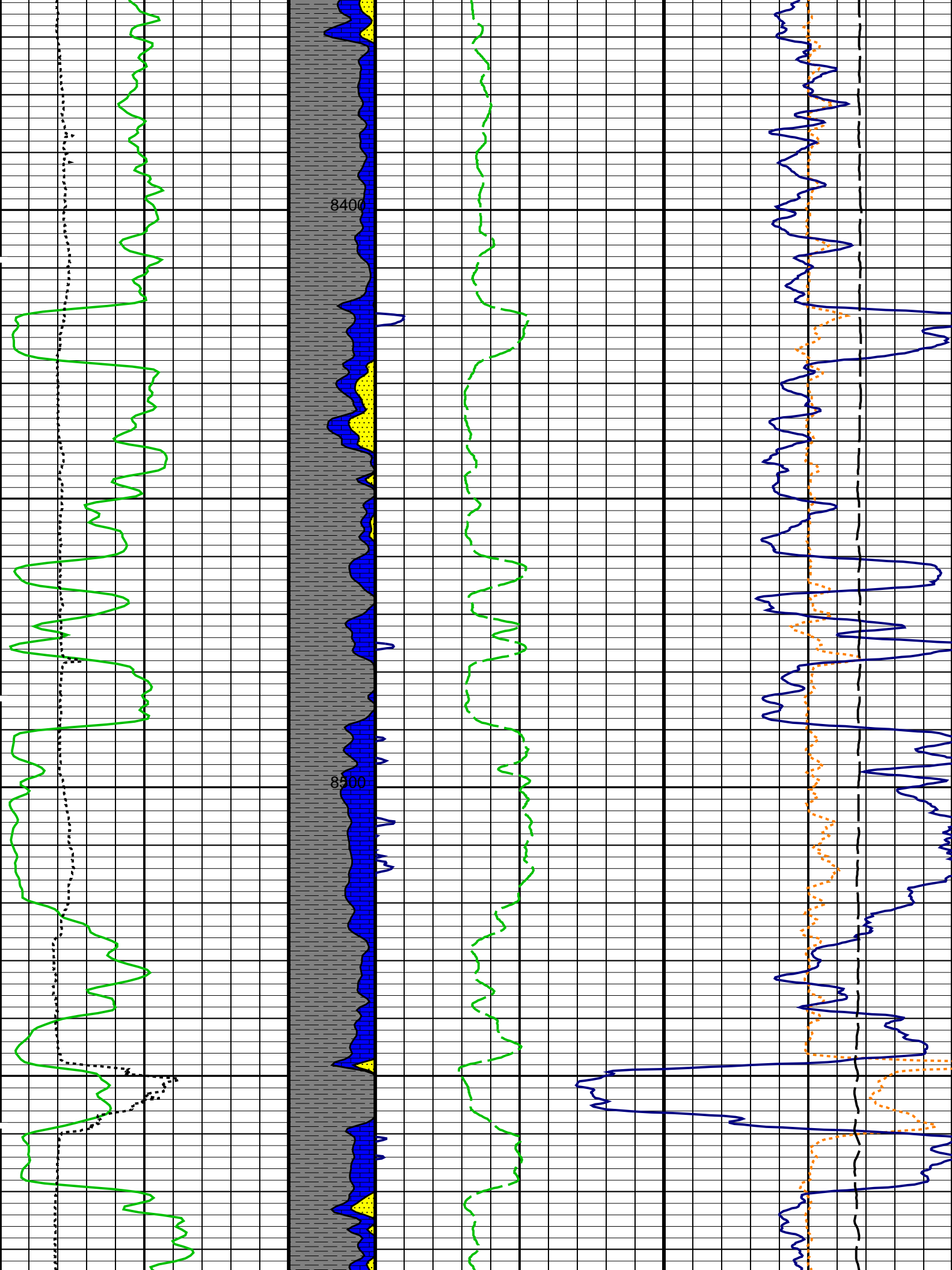


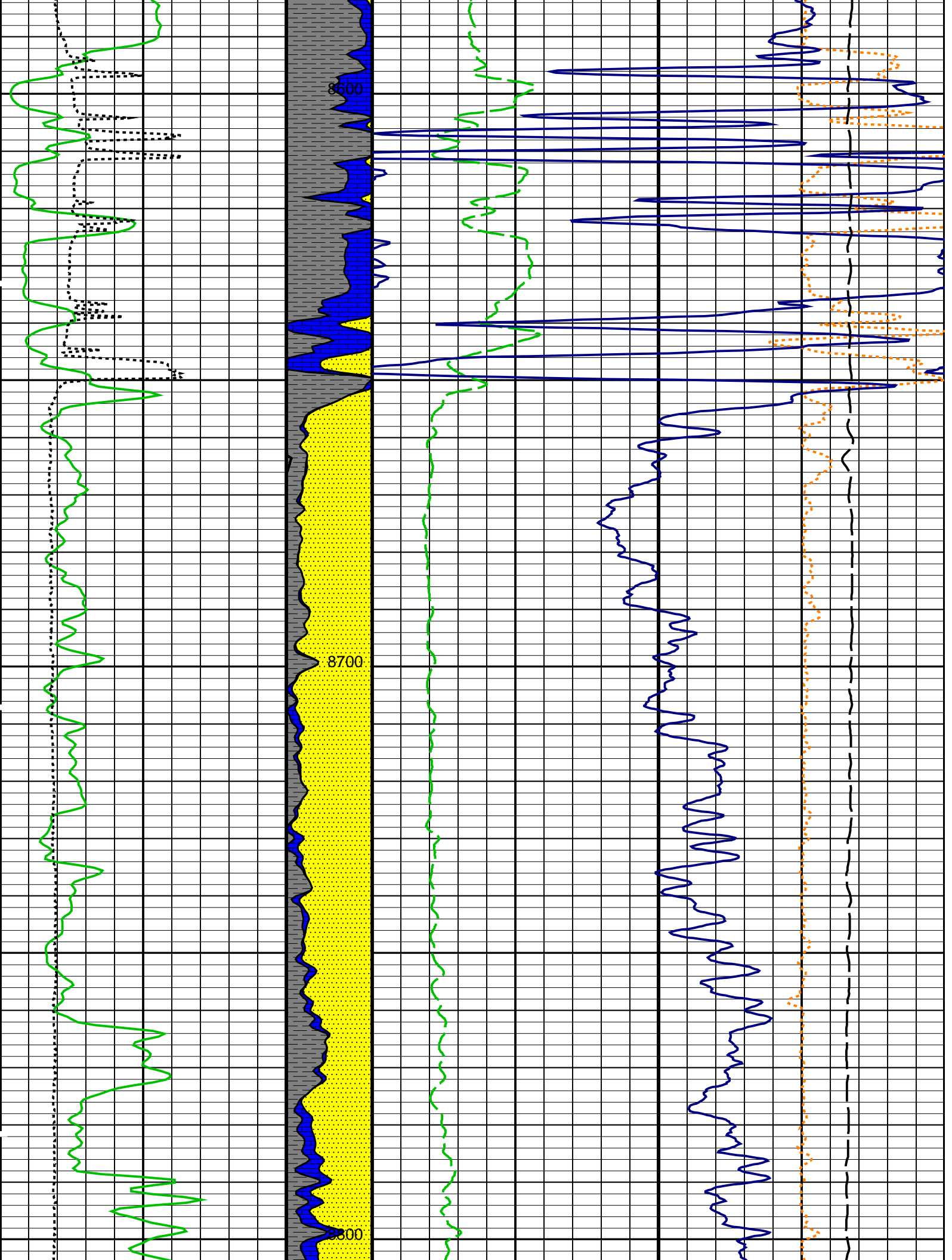


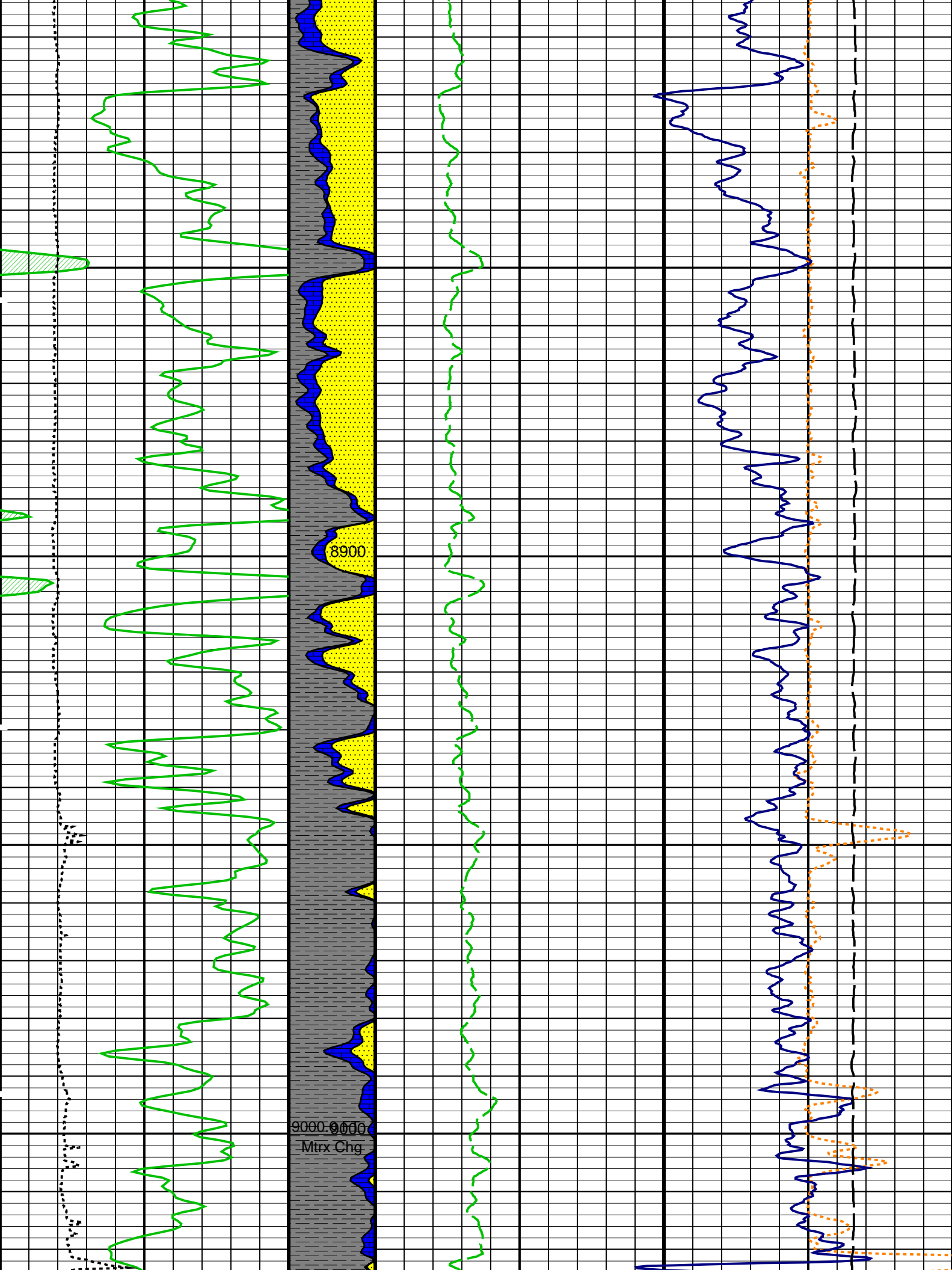


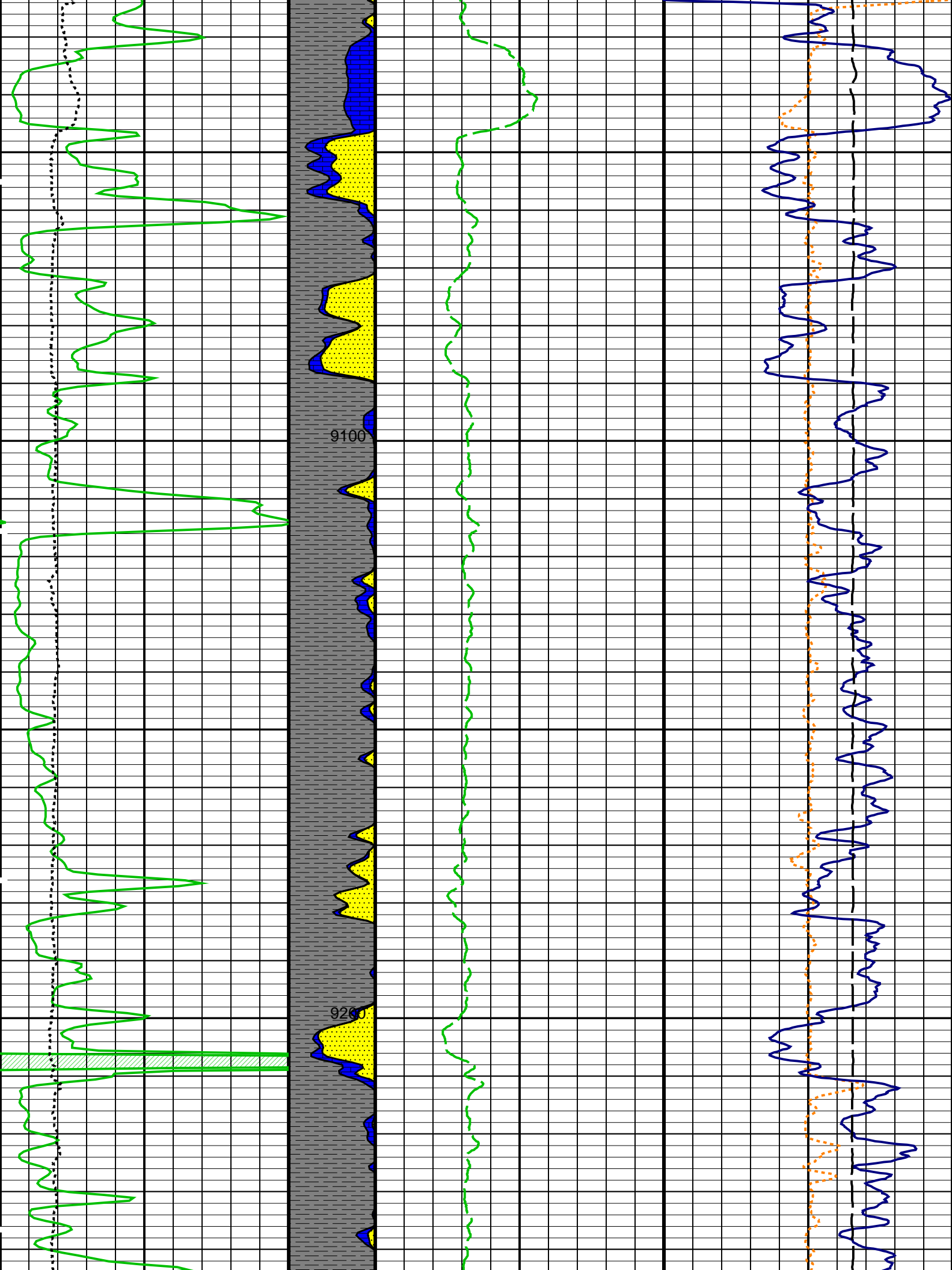


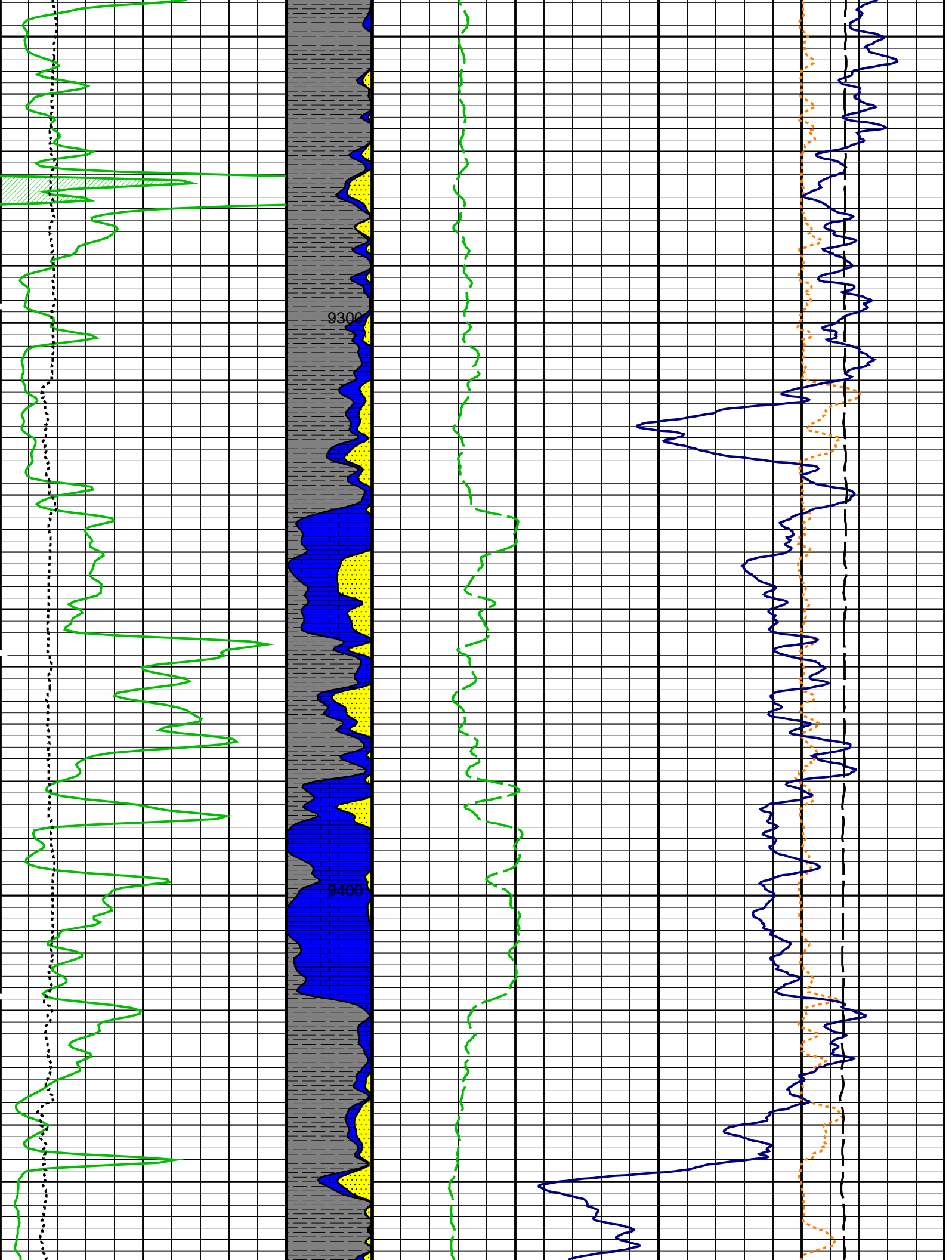


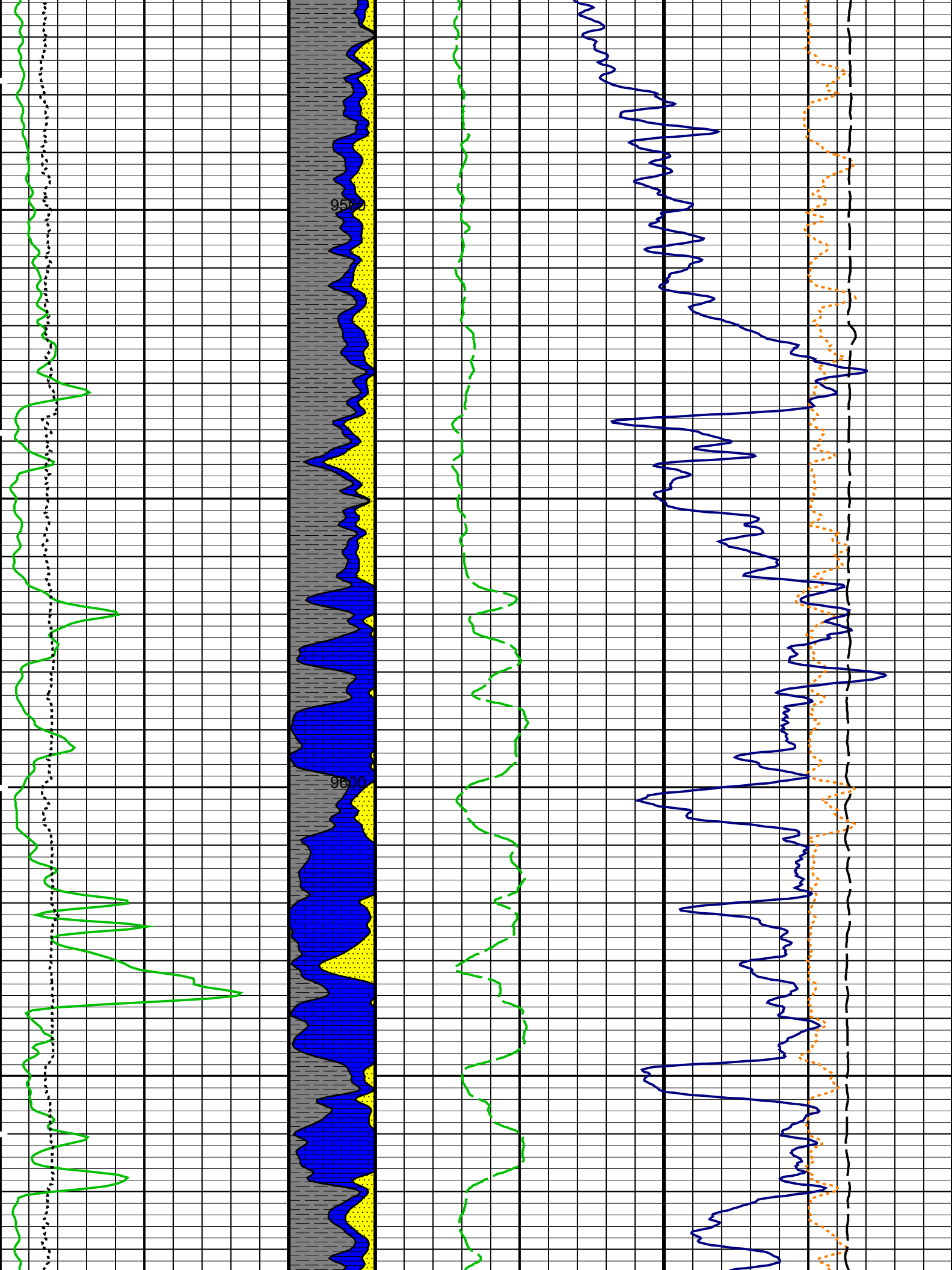


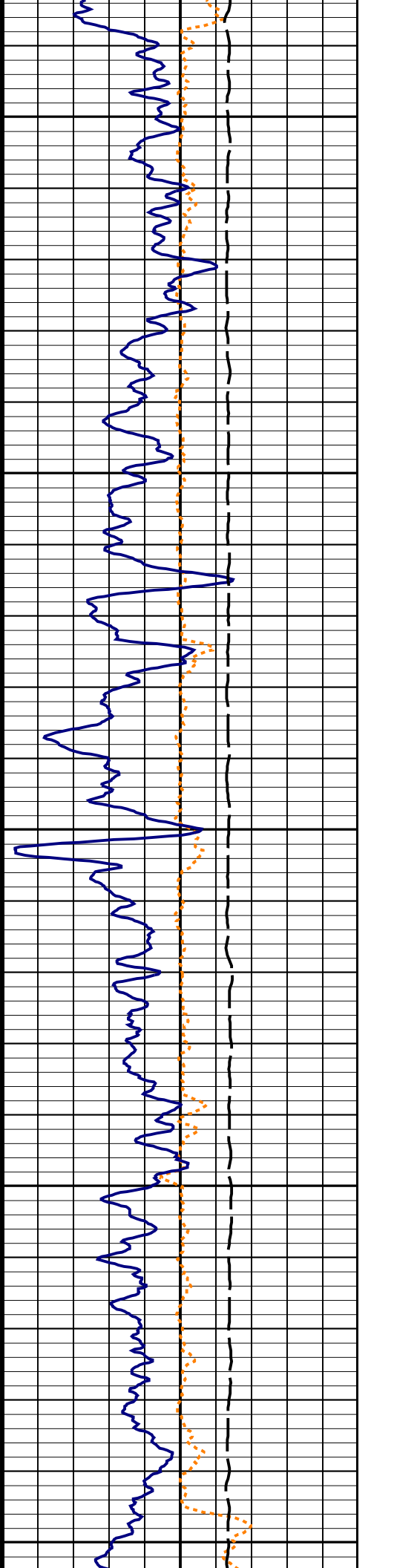
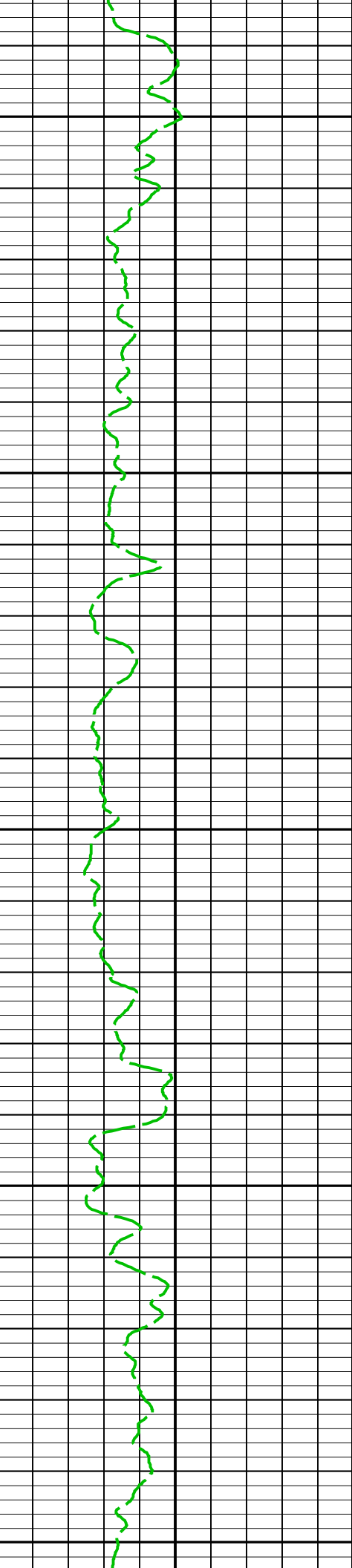
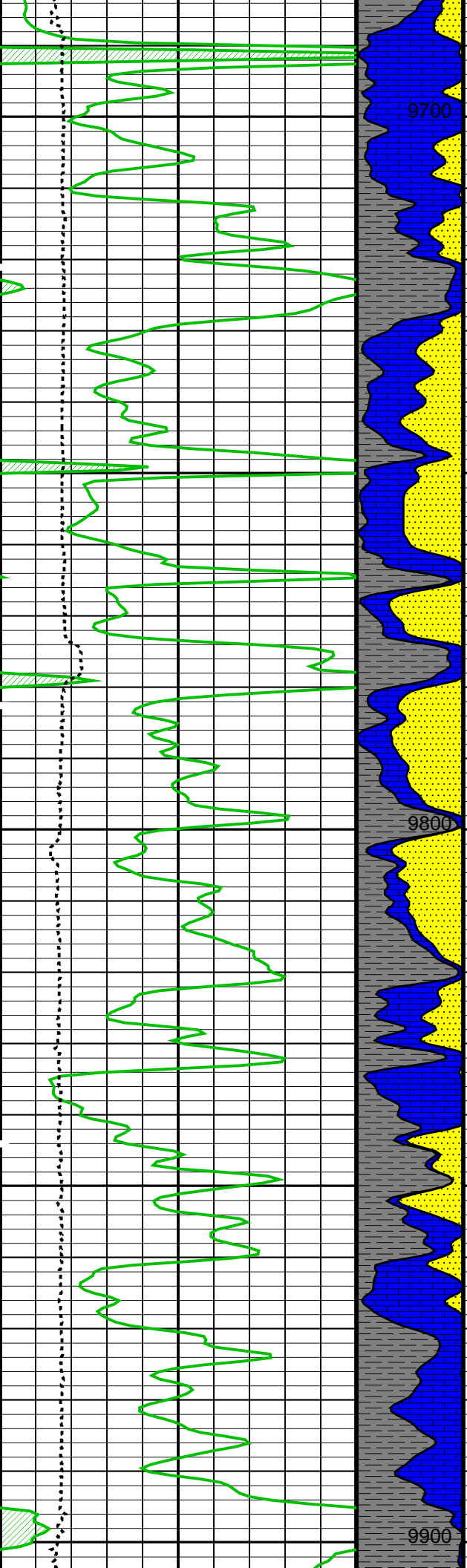


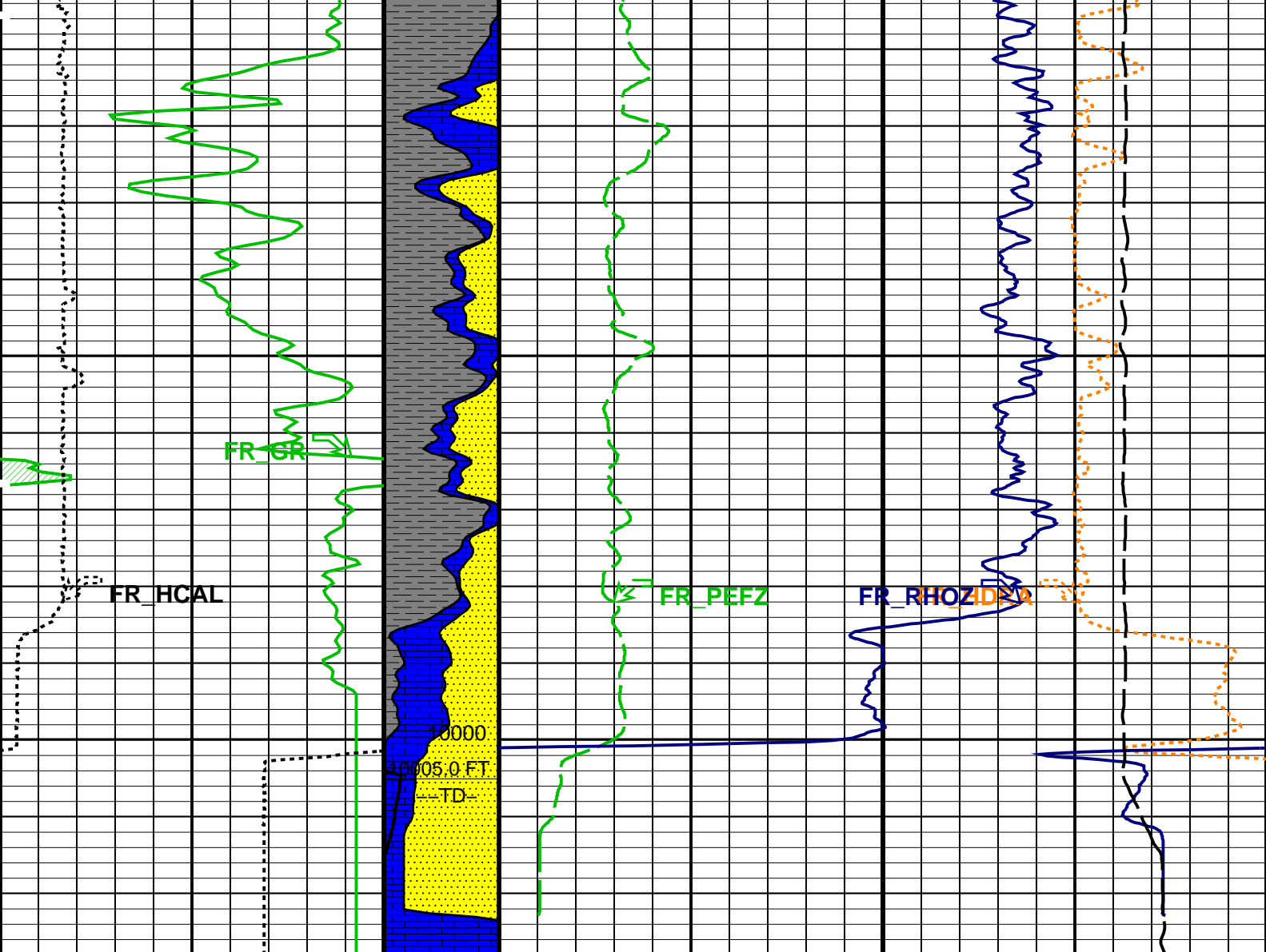




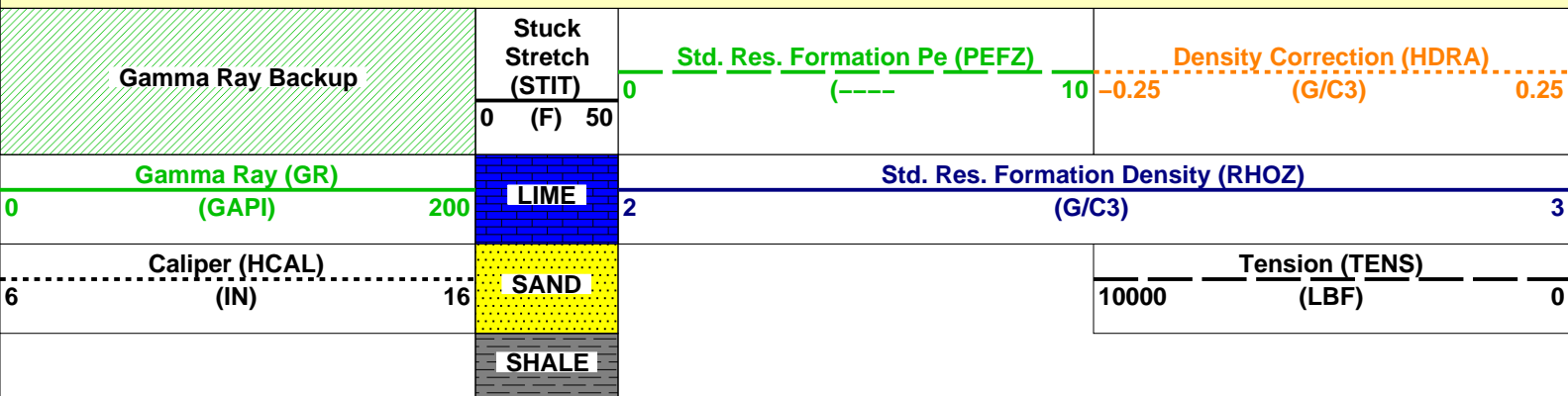








MAIN PASS: *** PLATFORM EXPRESS – LITHOLOGY DENSITY ***



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HILTB-CTS	High resolution Integrated Logging Tool-CTS	
BHFL_TLD	HILT Nuclear Mud Base	WATER
DHC	Density Hole Correction	BS
GCLF	Germany Coal-like Formation Option	NO
MPOF	MCFL Processing Operation Mode	ON
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	NOBARITE
NPRM	HRDD Processing Mode	STDRES
NSAR	HRDD Depth Sampling Rate	1.000 in

STKT	STI: Stuck Tool Indicator	STI Stuck Threshold	2.500	ft
TDD		Total Depth – Driller	10000.0	ft
TDL		Total Depth – Logger	10005.0	ft
	System and Miscellaneous			
BS		Bit Size	7.875	in
DFD		Drilling Fluid Density	9.300	lbm/gal

Format: UPPER_DENS	Vertical Scale: 5" per 100'	Graphics File Created: 10-Feb-2009 15:48
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OP System Version: 15C0-309	
MCM	
HILTC	15C0-309

Input DLIS Files				
HILTC .019	FN:13	09-Jan-2009 20:03	10028.0 FT	497.5 FT



BEFORE CALIBRATIONS

MAXIS Field Log

Company:	Conquest Oil Co.	
Well:	SWD 1-8B	
Field:	Wattenberg	
County:	Weld	
State:	Colorado	
Platform Express		
Compensated Neutron		
Litho Density		