

DENSITY/NEURON LOG

**Schlumberger**

Company: Windy Hill Gas Storage, LLC

Well: Windy Hill 3-17D

Field: Wildcat

County: Morgan

State: Colorado

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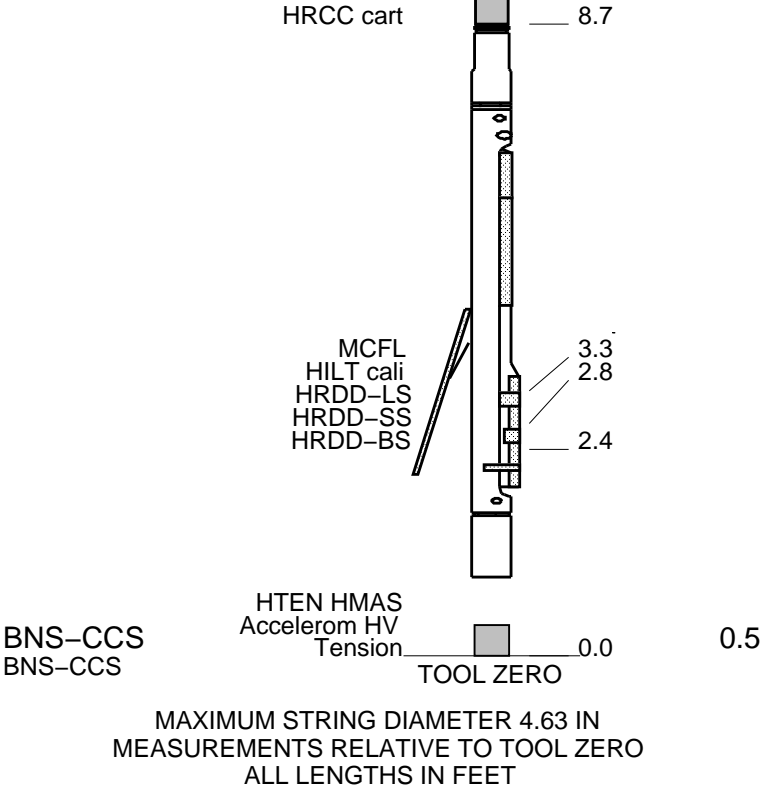
State: Colorado

[illegible]

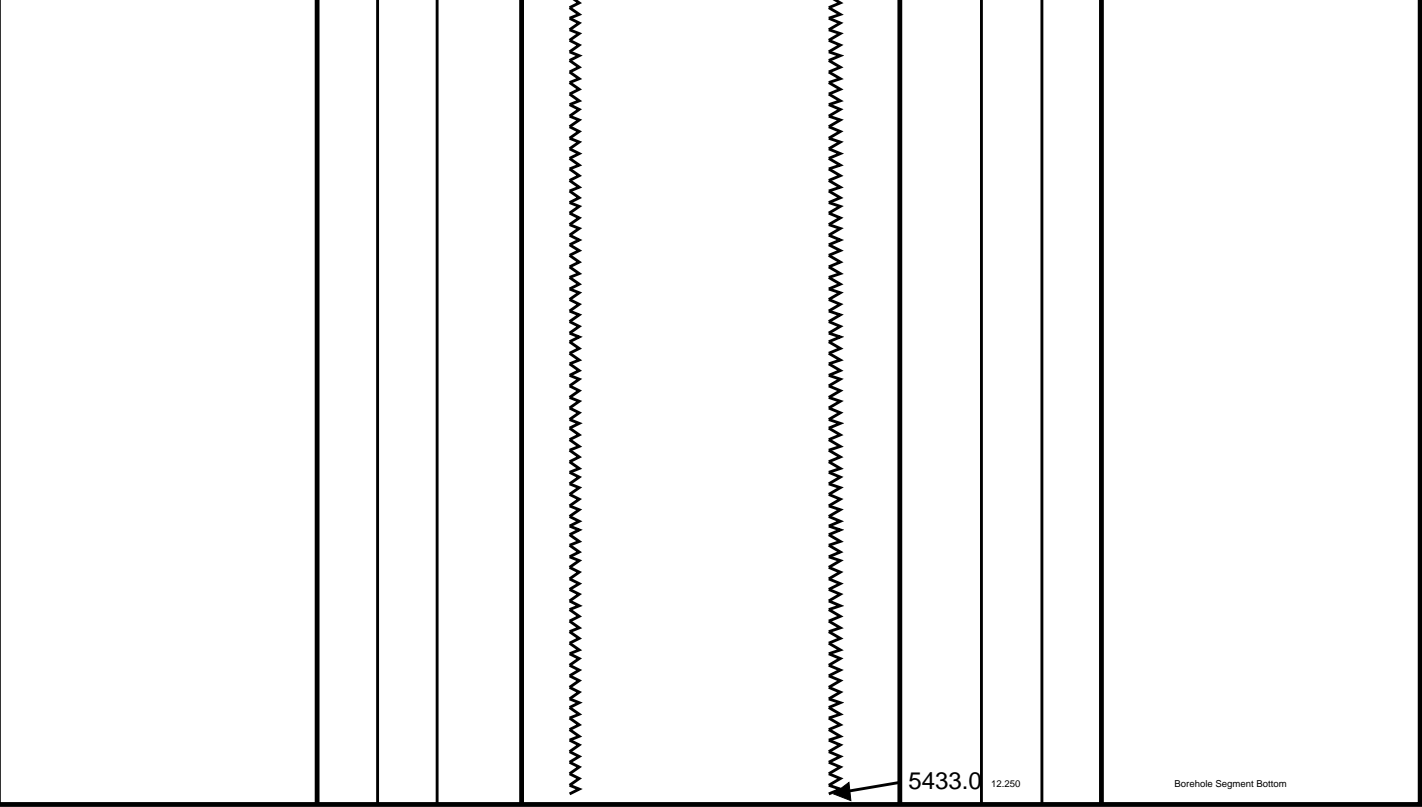
Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth		@			
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density		Viscosity			
Fluid Loss		PH			
Source Of Sample					
RM @ Measured Temperature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

OTHER SERVICES1	OTHER SERVICES2
OS1: NGT	OS1:
OS2: BHC	OS2:
OS3: AIT	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the second run in hole.	
Tool run as per tool sketch	
Matrix changes noted on logs.	
--Density reading off because of hole conditions--	

Rig: Unit 234	
Thank you for using Schlumberger Wireline	
Crew: Sam Hopper & David Marquez	
<div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>11634009</div> <div>15C0-309</div> </div>	<div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div>
<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>	<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>
EQUIPMENT DESCRIPTION	
RUN 1	RUN 2
<div>SURFACE EQUIPMENT</div> <div> <div>WITM (CTS)-A</div> <div>GSR-U/Y 5094</div> <div>NCT-B</div> <div>CNB-AB</div> </div> <div>NCS-VB</div>	
<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>LEH-QT</div> <div>LEH-QT</div> </div> <div> <div> <div>HGNS HTEM</div> <div>HMCA</div> <div>TelStatus</div> <div>CTEM</div> </div> <div> <div>HILTB-CTS</div> <div>HGNSC-B 940</div> <div>HMCA</div> <div>TCC-B</div> <div>HGNH</div> <div>NLS-KL</div> <div>NSR-F 2539</div> <div>HACCZ 419</div> <div>HCNT</div> <div>HGR</div> <div>HRCC-B</div> <div>HRMS-B</div> <div>HRGD-B 1921</div> <div>GLS-VJ 5094</div> <div>MCFL Device</div> <div>HILT Nucl. LS 42767</div> <div>HILT Nucl. SS 42767</div> <div>HILT Nucl. BS 42767</div> <div>BOW-SPR</div> <div>NPV-N</div> </div> <div> <div>HGNS Gamm</div> <div>HGNS Neut</div> <div>HGNS Neut</div> <div>HGNS sens</div> </div> </div> <div> <div> <div>25.0</div> <div>22.1</div> <div>21.4</div> <div>15.5</div> <div>15.0</div> <div>12.7</div> </div> </div> </div>	



Production String	(in) (ft)			Well Schematic	(ft) (in)			Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	13.375		Casing String, 52.5 lbm/ft
					476.0	13.375		Casing Shoe
					476.0	12.250		Borehole Segment



ALL DEPTHS AS PER DRILLER



MAIN POROSITY LOG 5" = 100'

MAXIS Field Log

Output DLIS Files

DEFAULT      TLD\_MCFL\_CNL\_033LUP      FN:32    PRODUCER    12-Aug-2007 15:15    5425.0 FT      451.5 FT

Integrated Hole/Cement Volume Summary

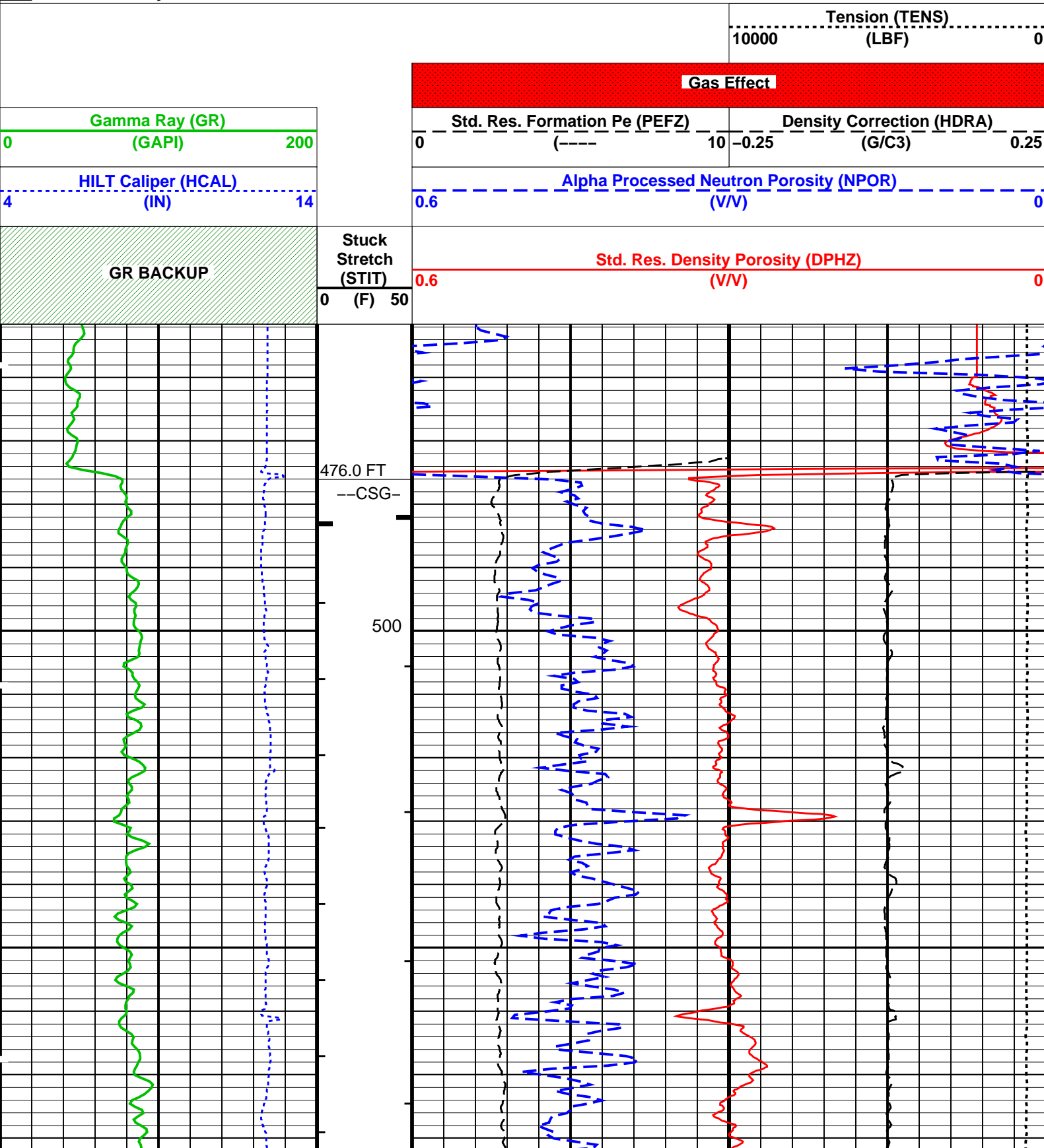
Hole Volume = 5506.22 F3  
Cement Volume = 3502.62 F3 (assuming 8.63 IN casing O.D.)  
Computed from 5414.0 FT to 476.0 FT using data channel(s) HCAL

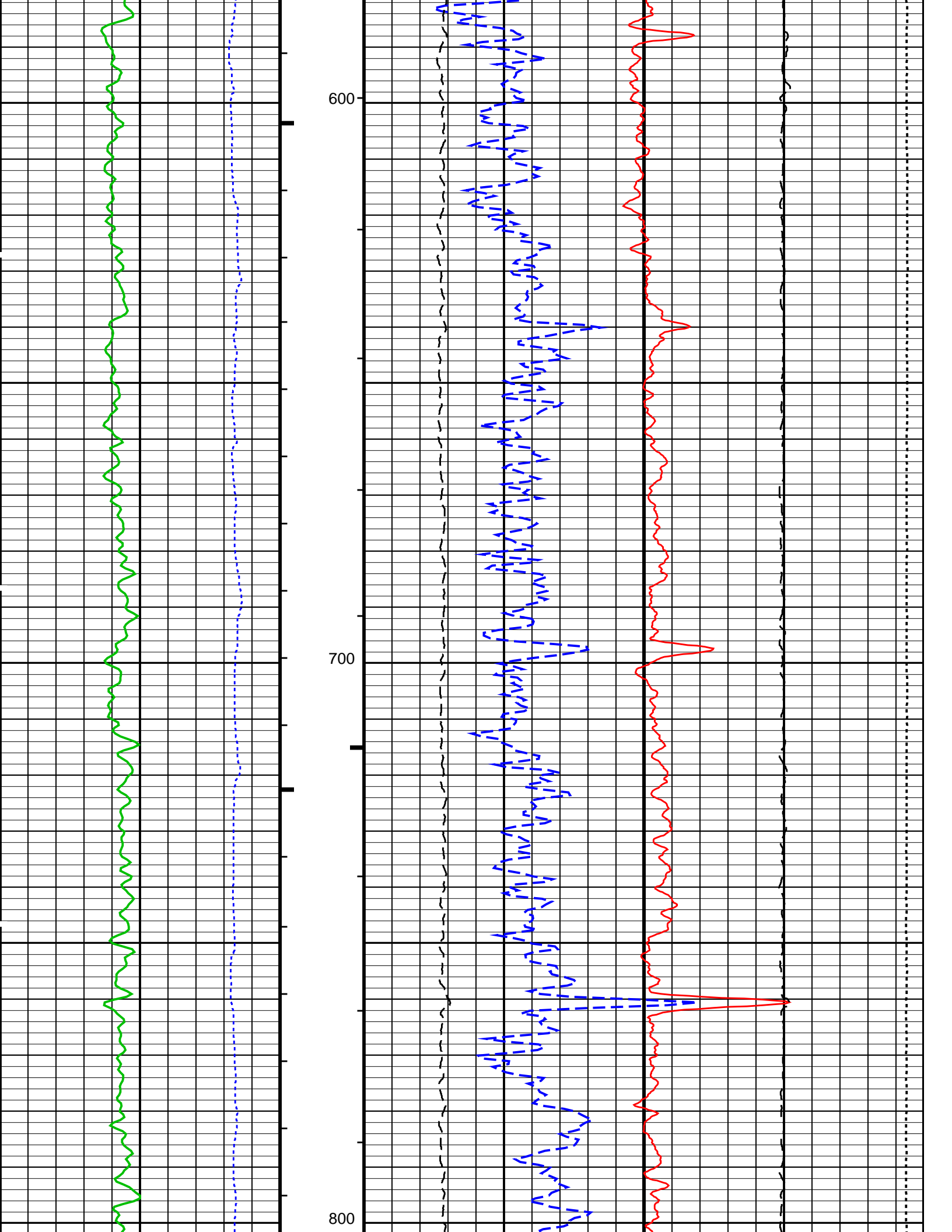
OP System Version: 15C0-309  
MCM

HILTB-CTS      SRPC-3357-Q2\_2007

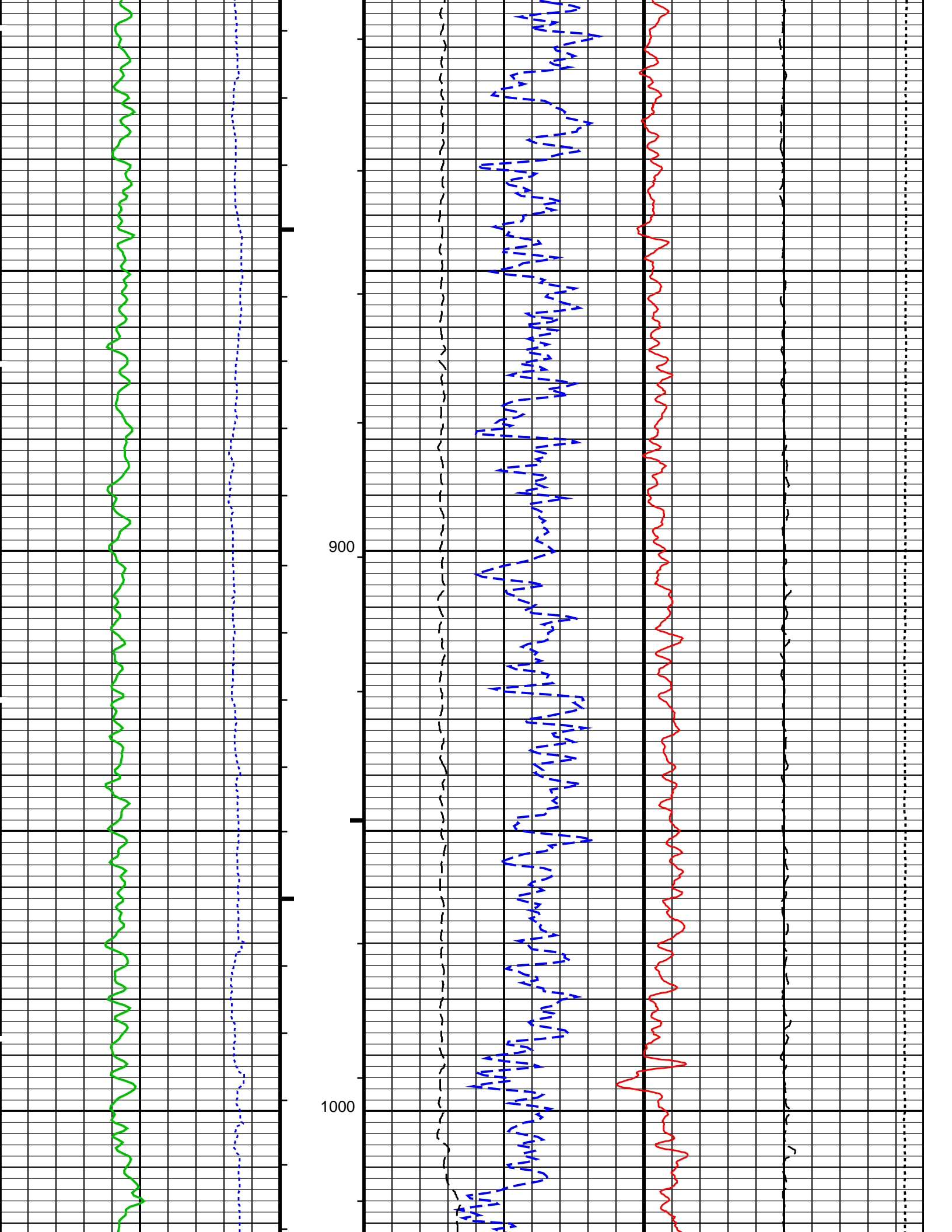
Changed Parameter Summary

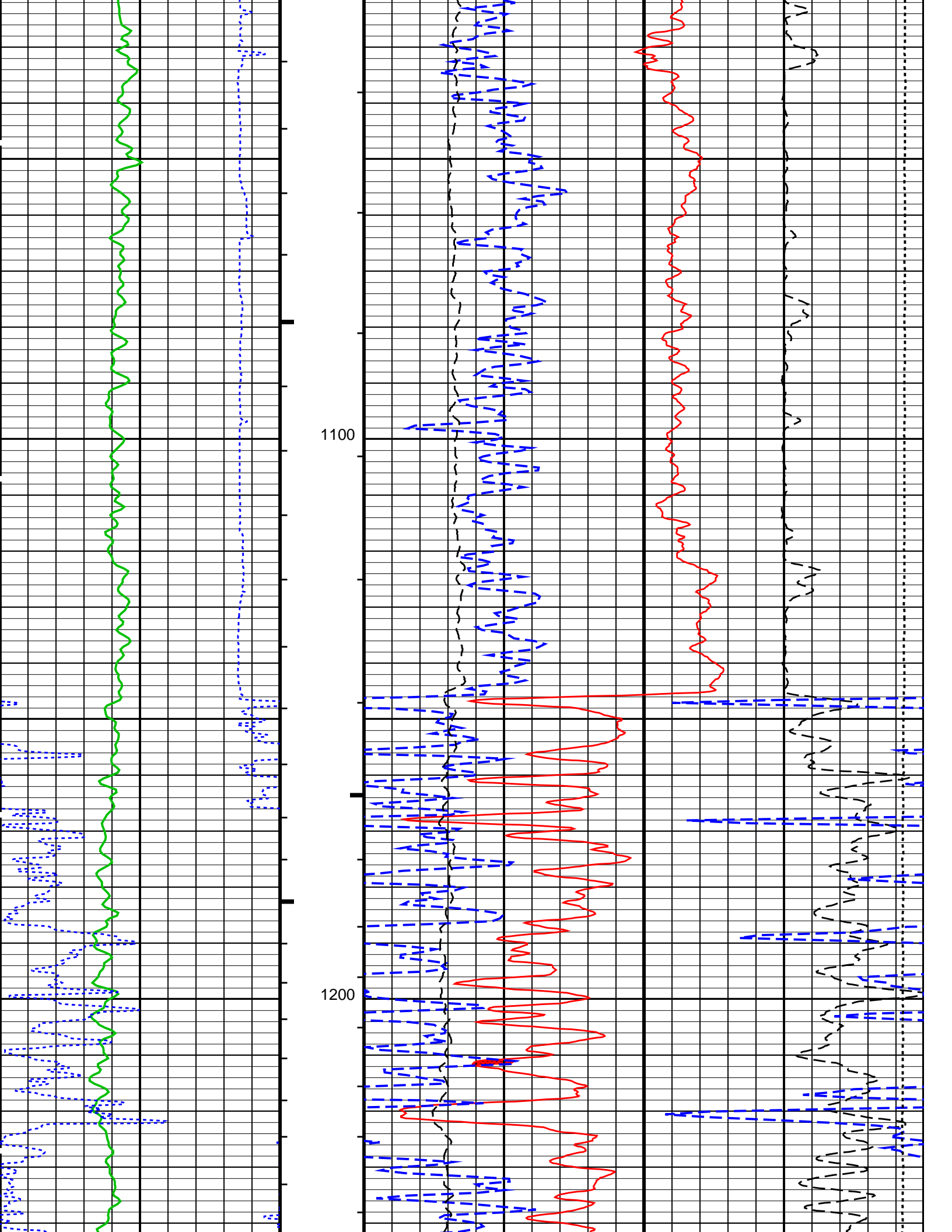
PIP SUMMARY	
└	Integrated Hole Volume Minor Pip Every 10 F3
└	Integrated Hole Volume Major Pip Every 100 F3
└	Integrated Cement Volume Minor Pip Every 10 F3
└	Integrated Cement Volume Major Pip Every 100 F3
└	Time Mark Every 60 S

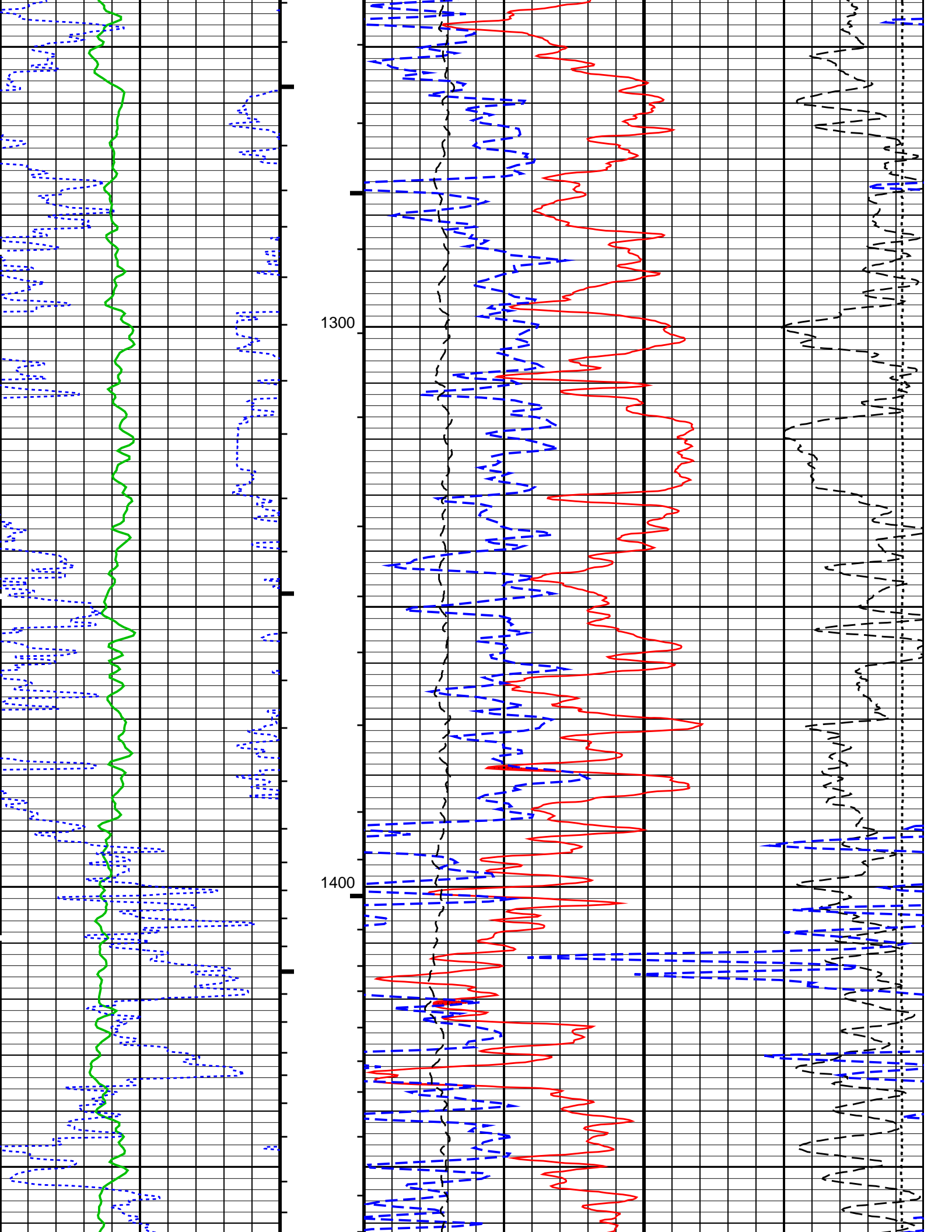


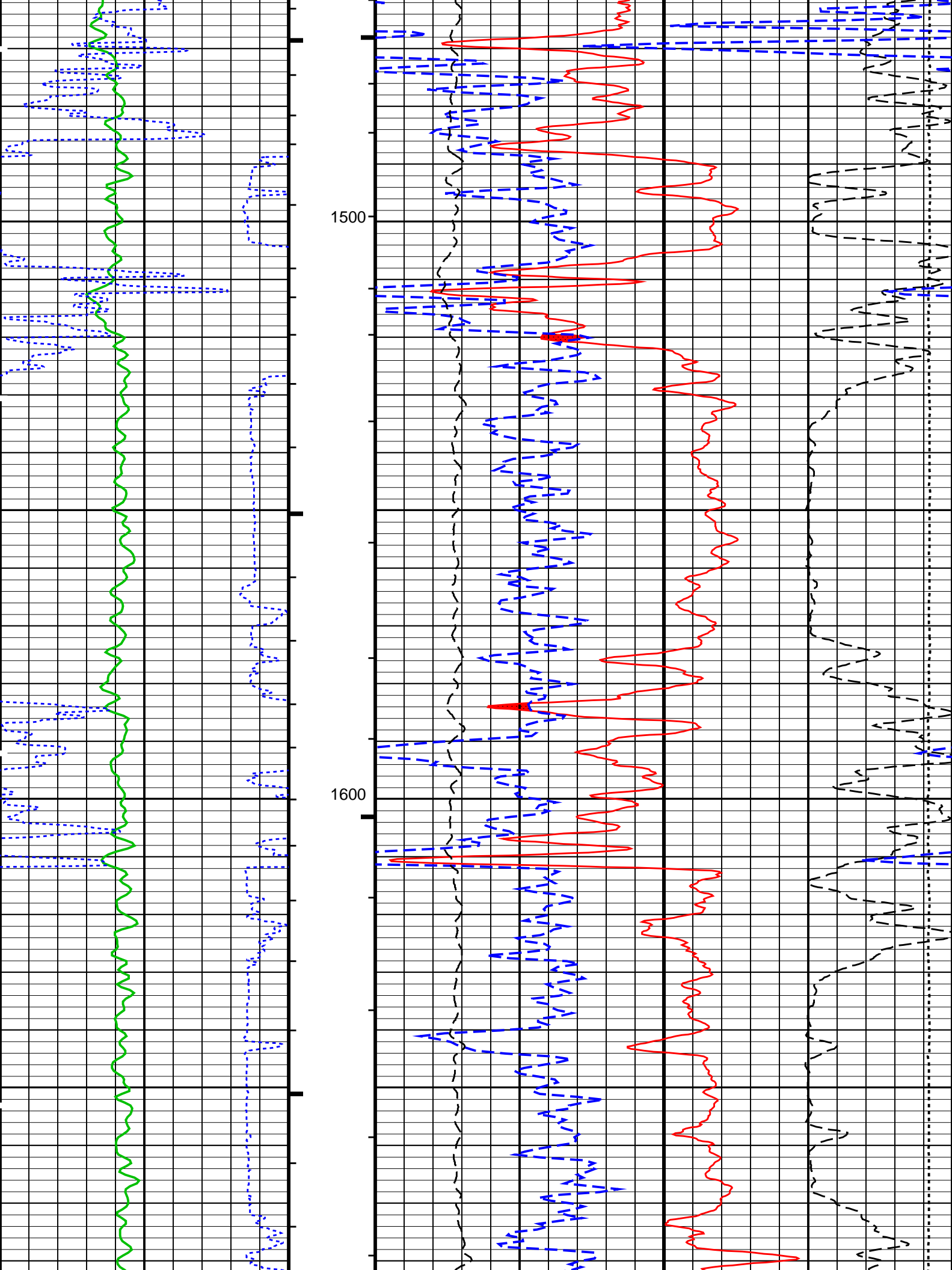


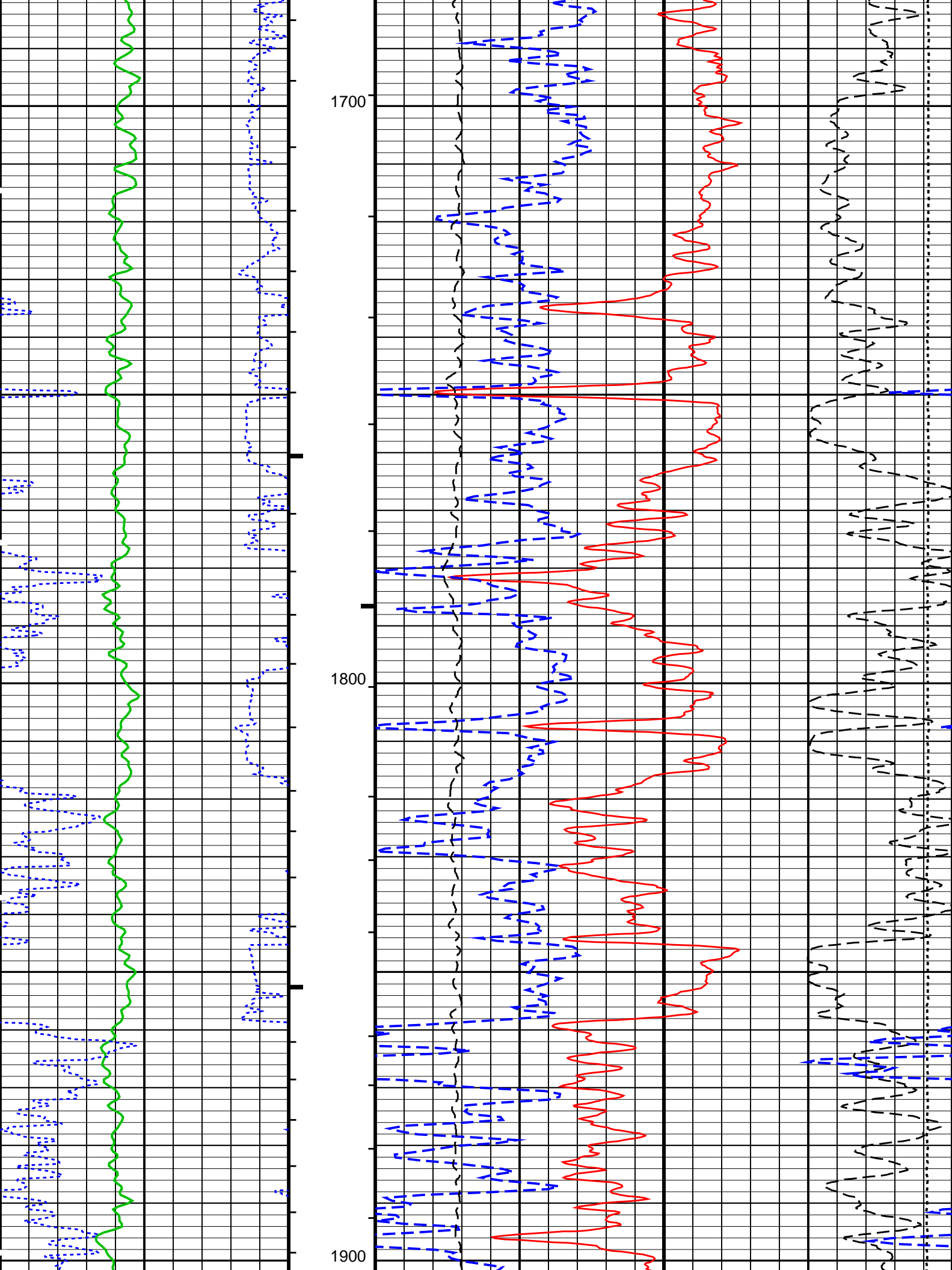


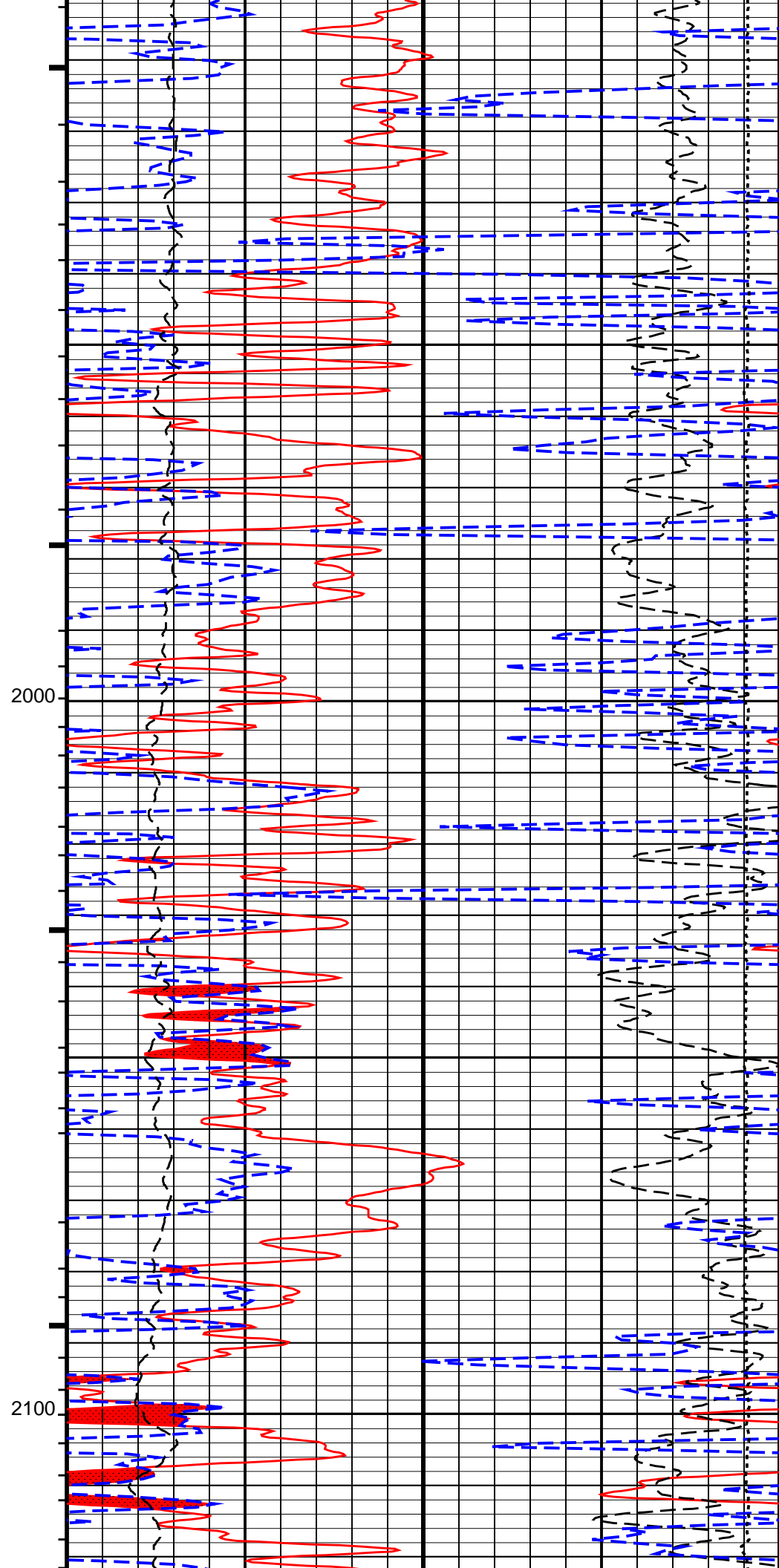
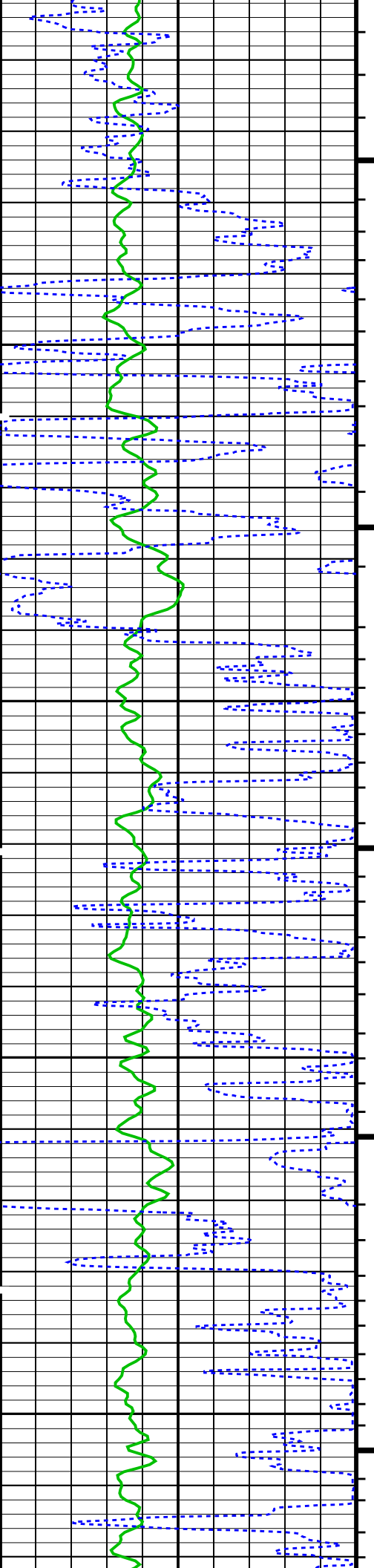


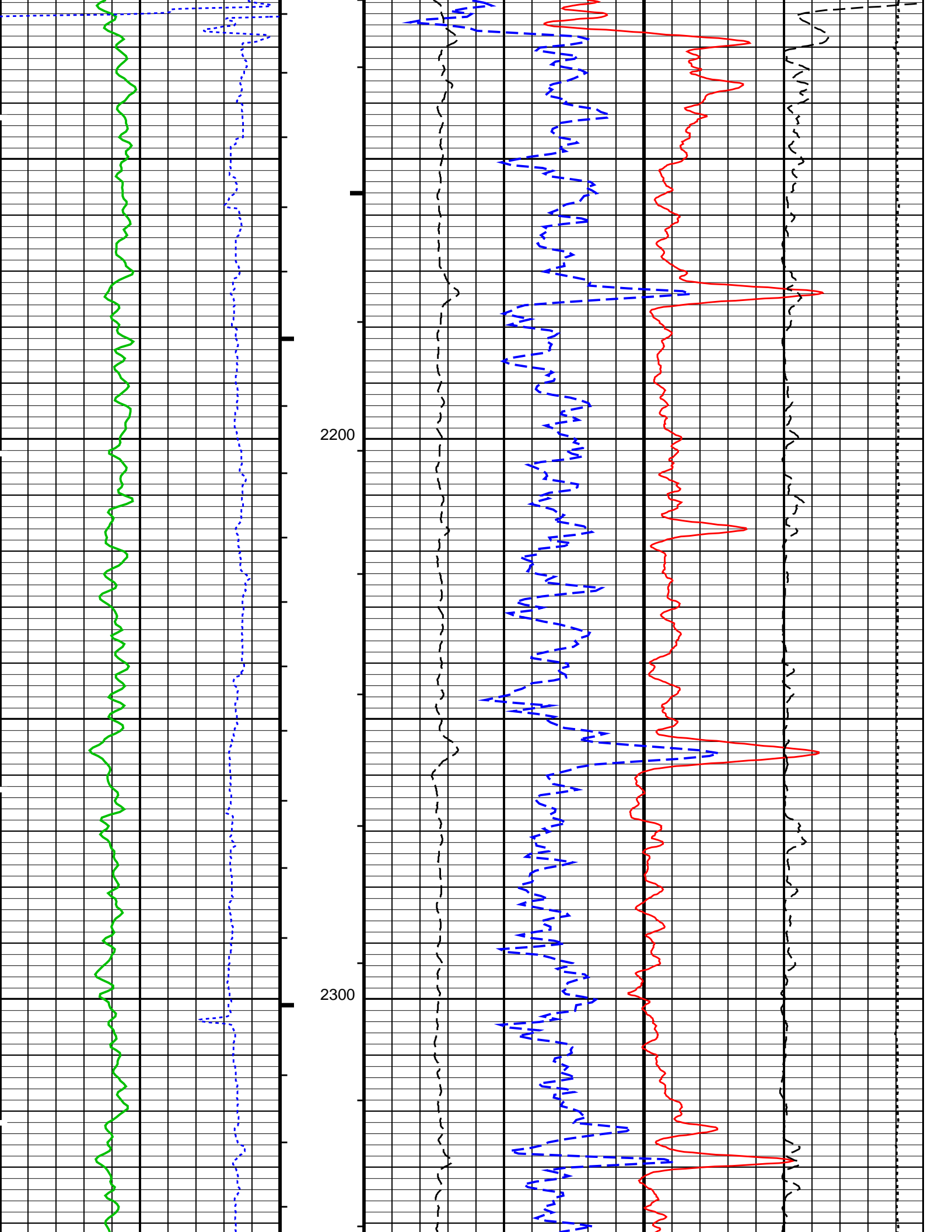


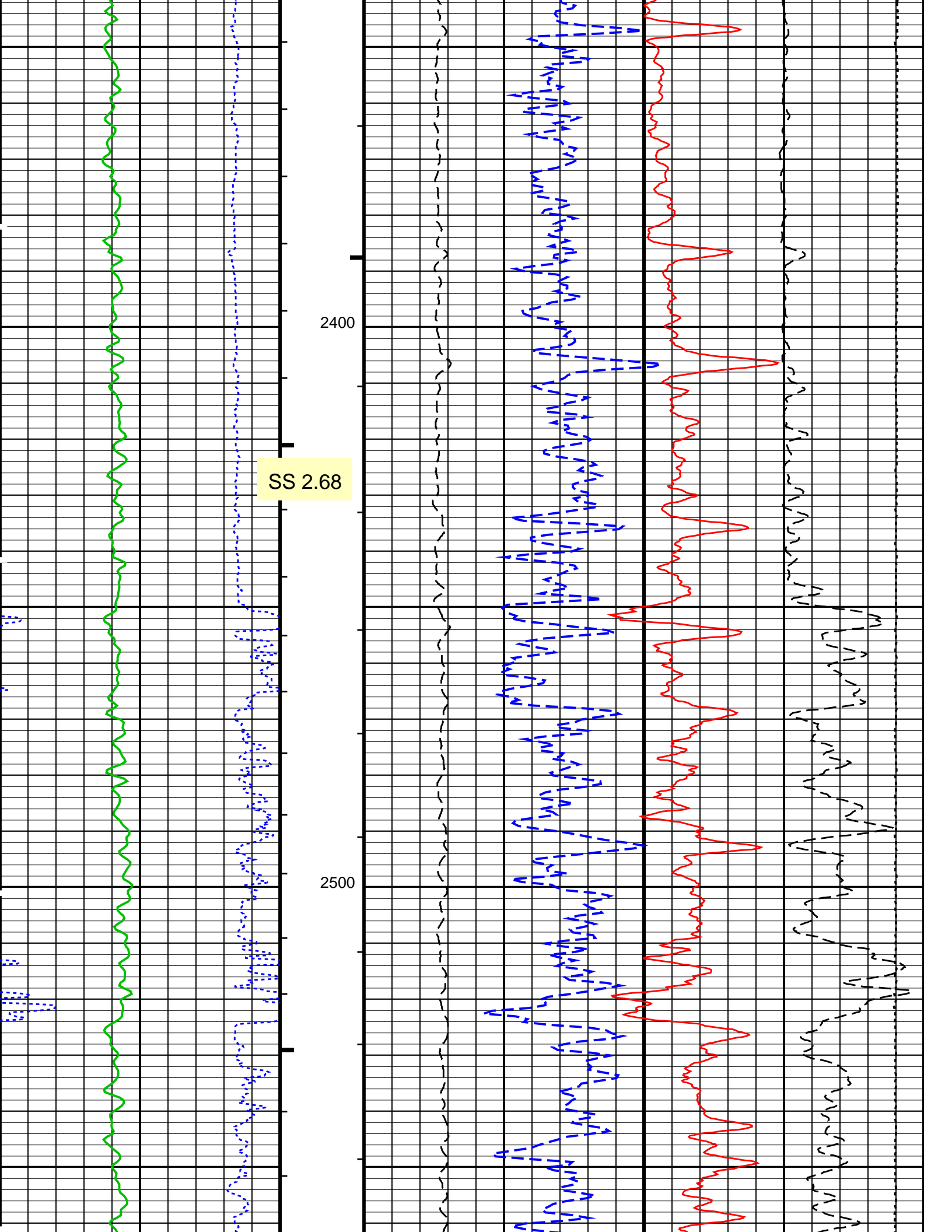




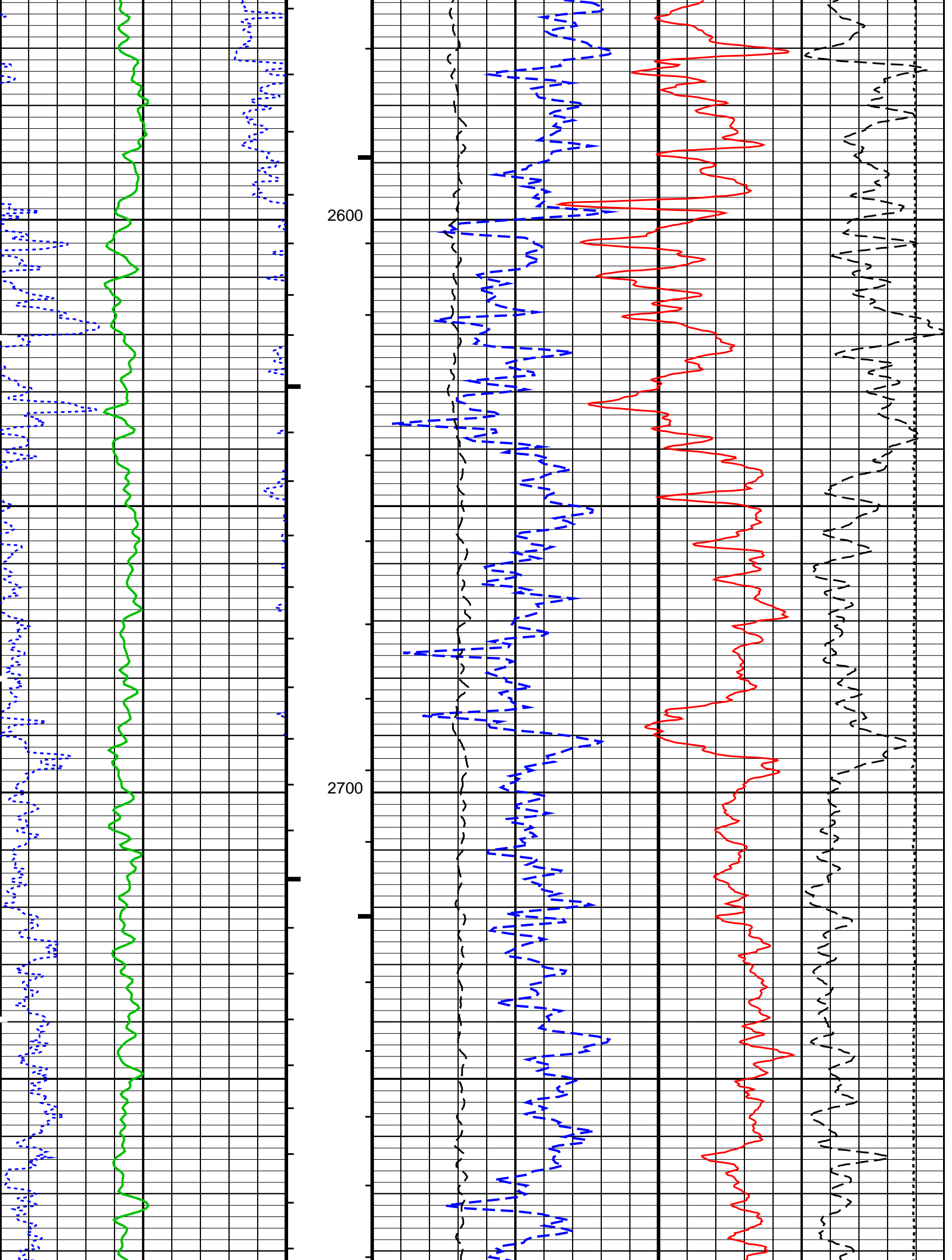


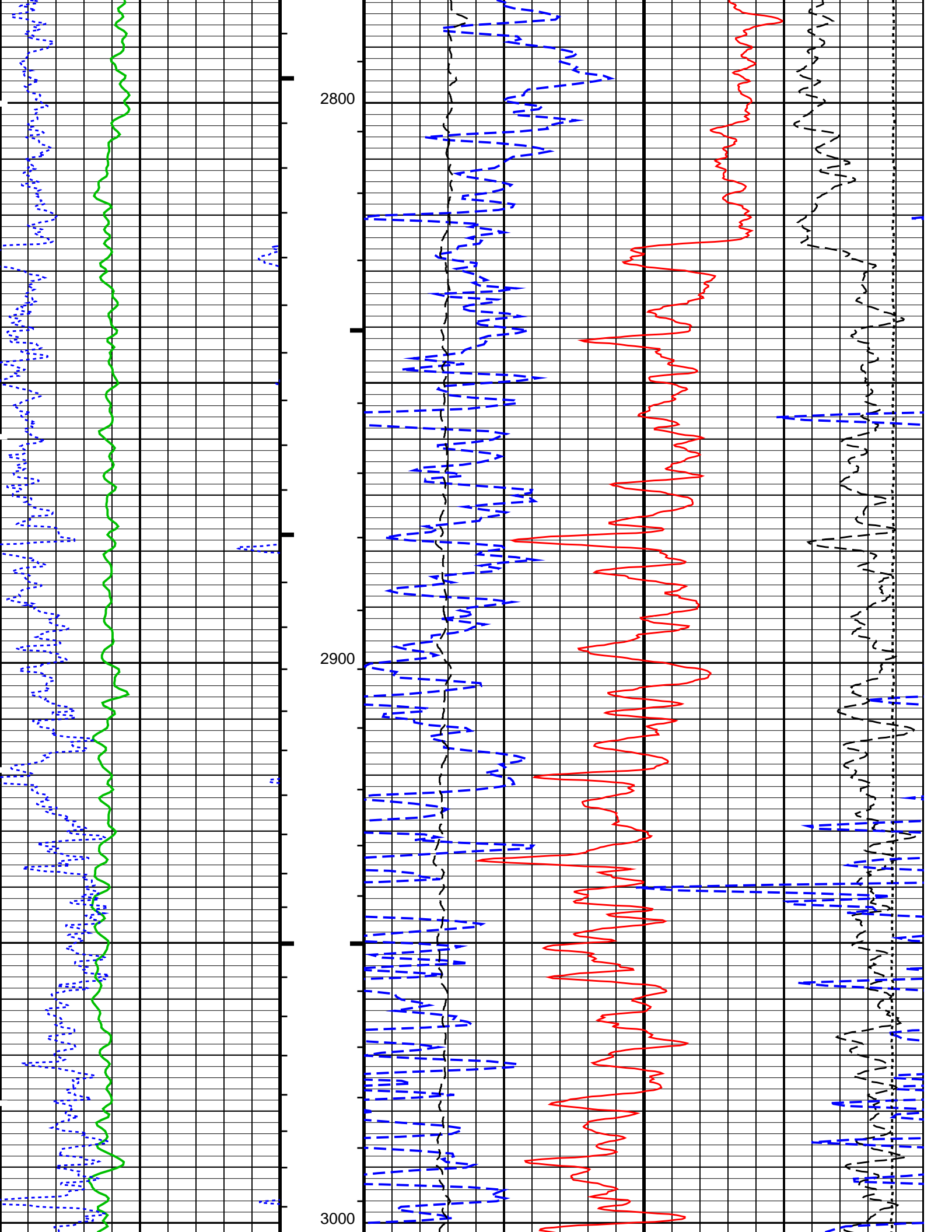


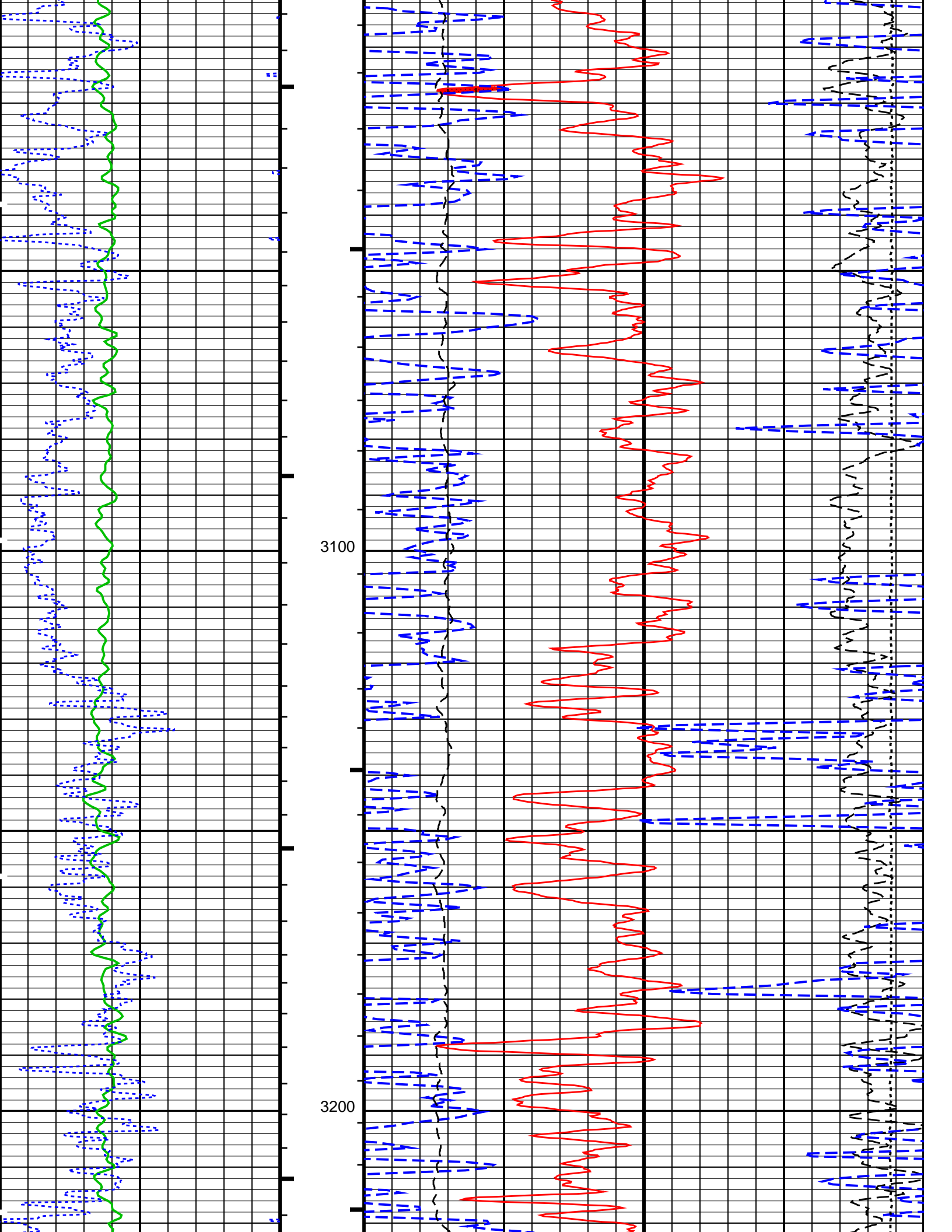


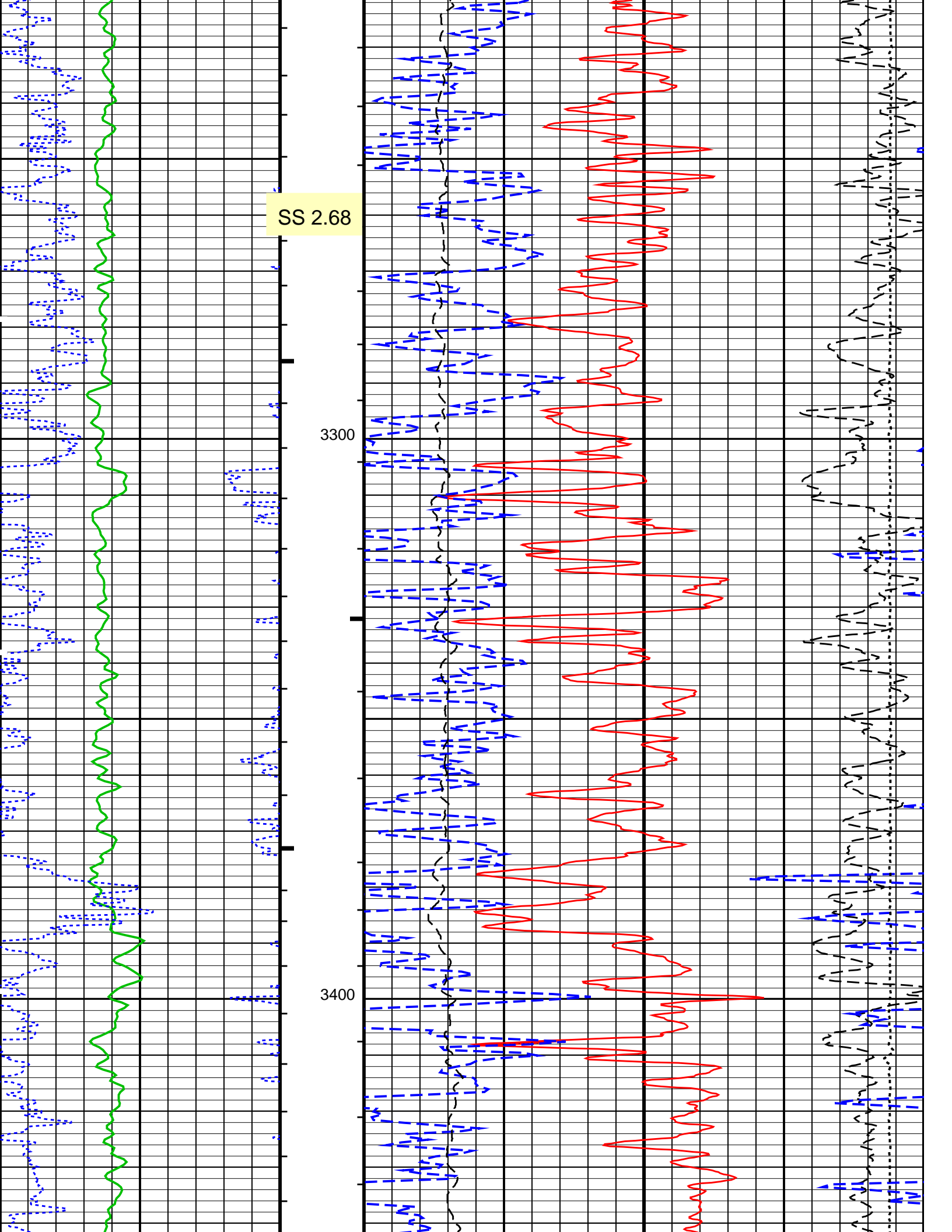


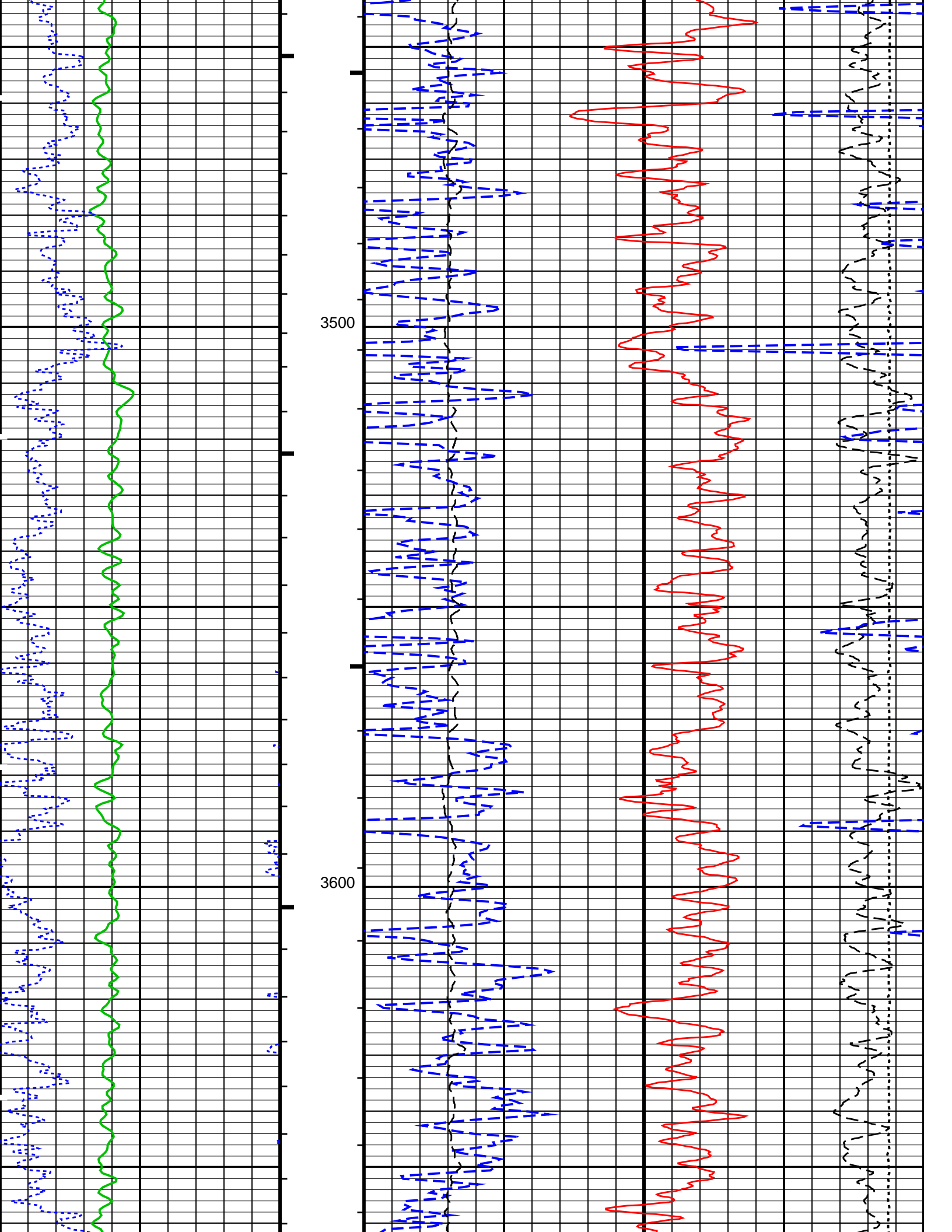


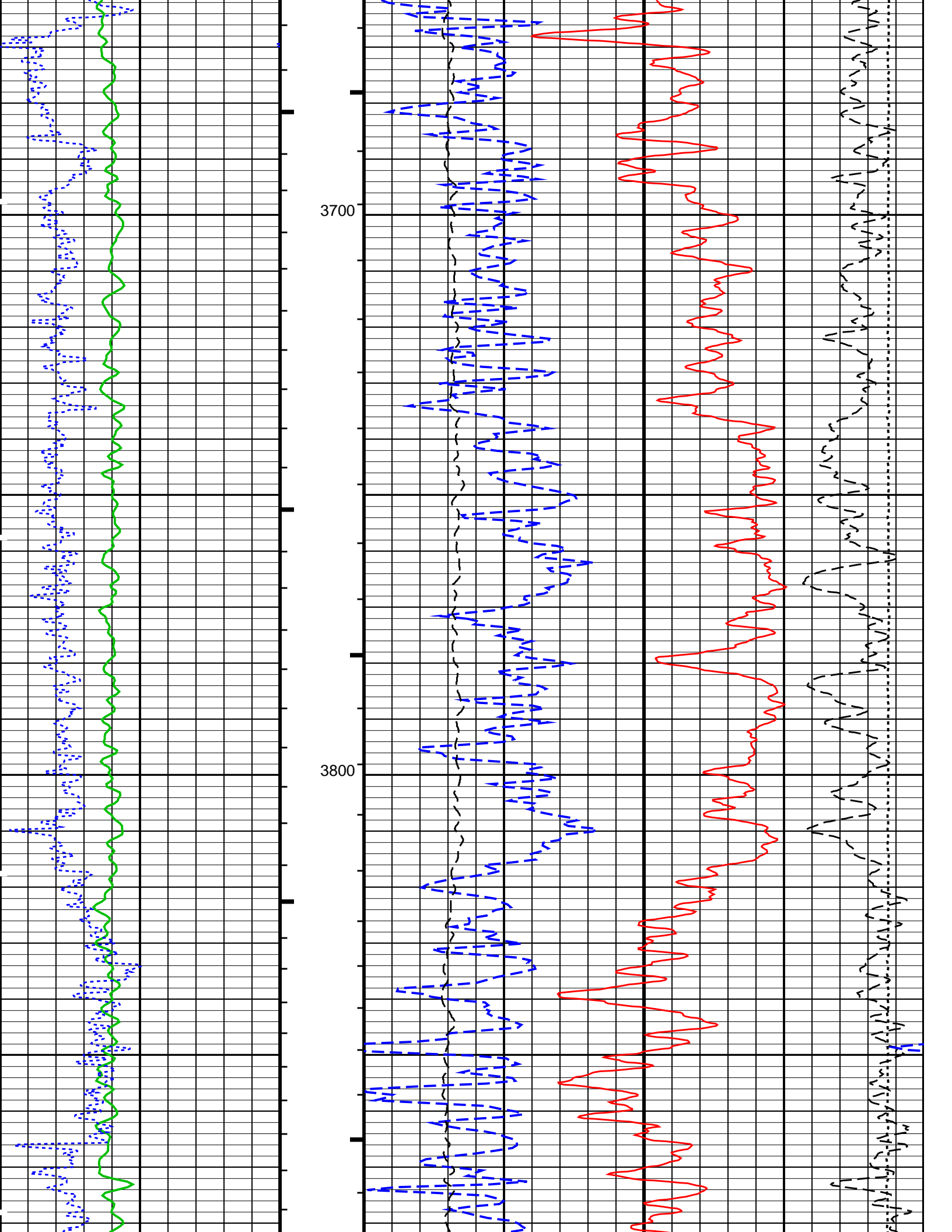


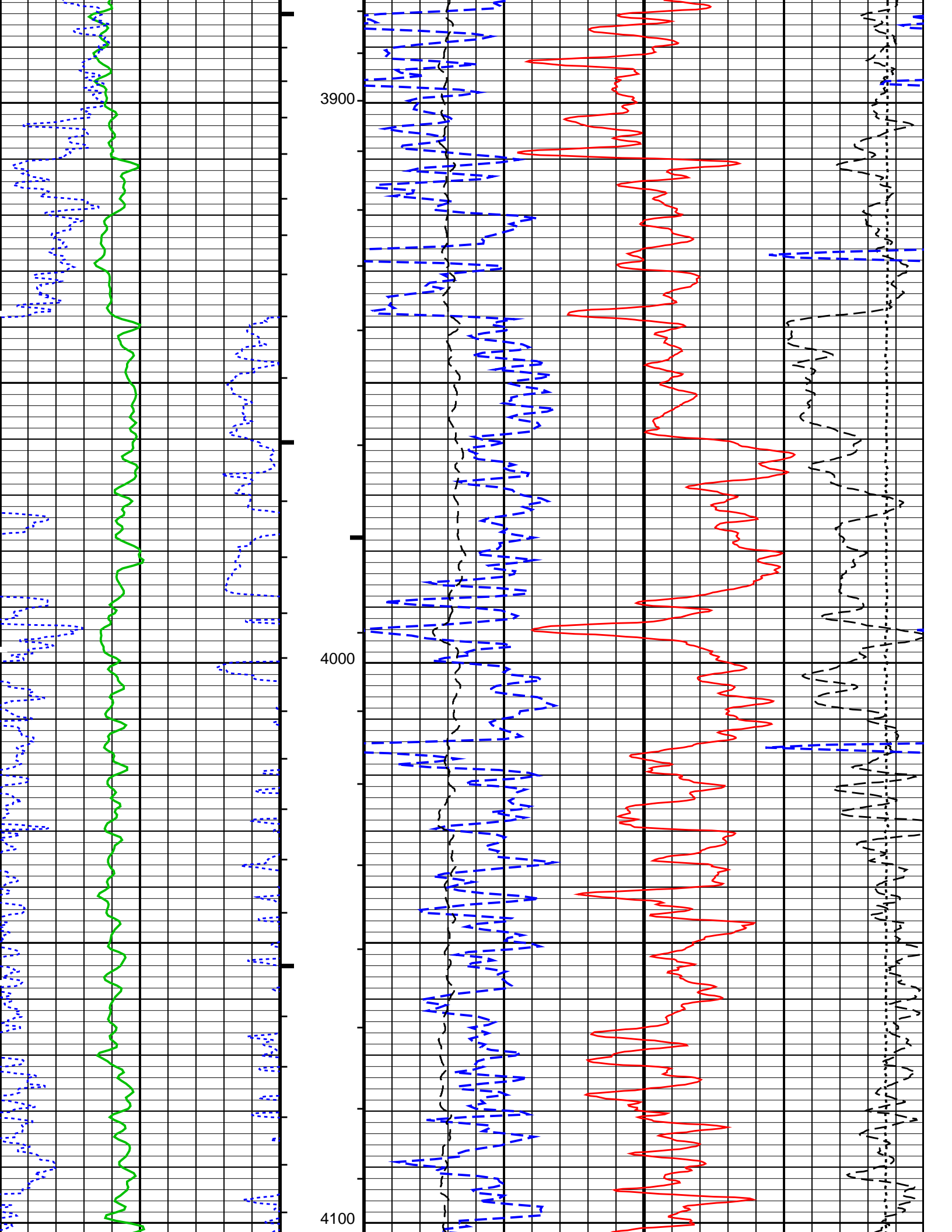


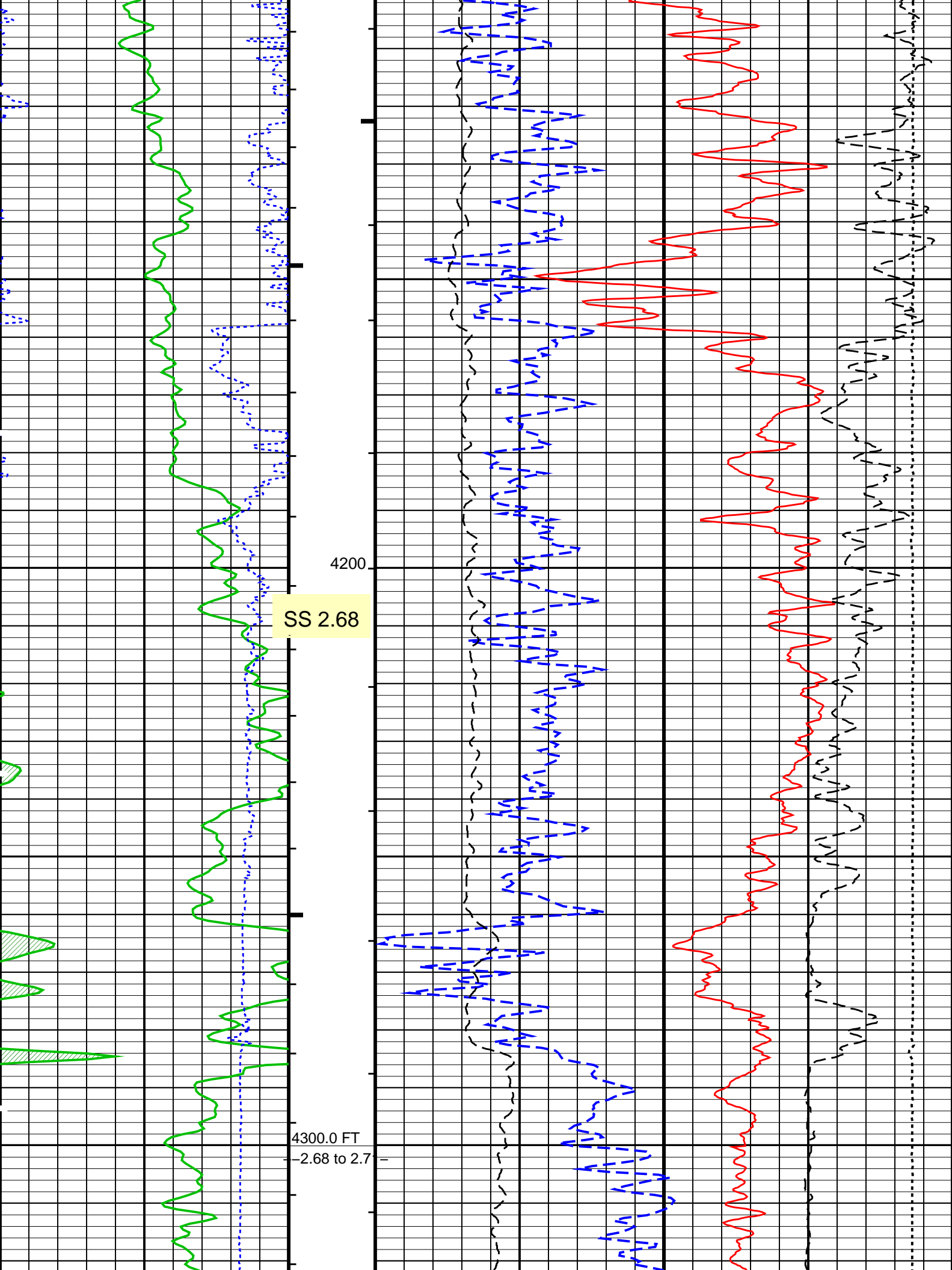




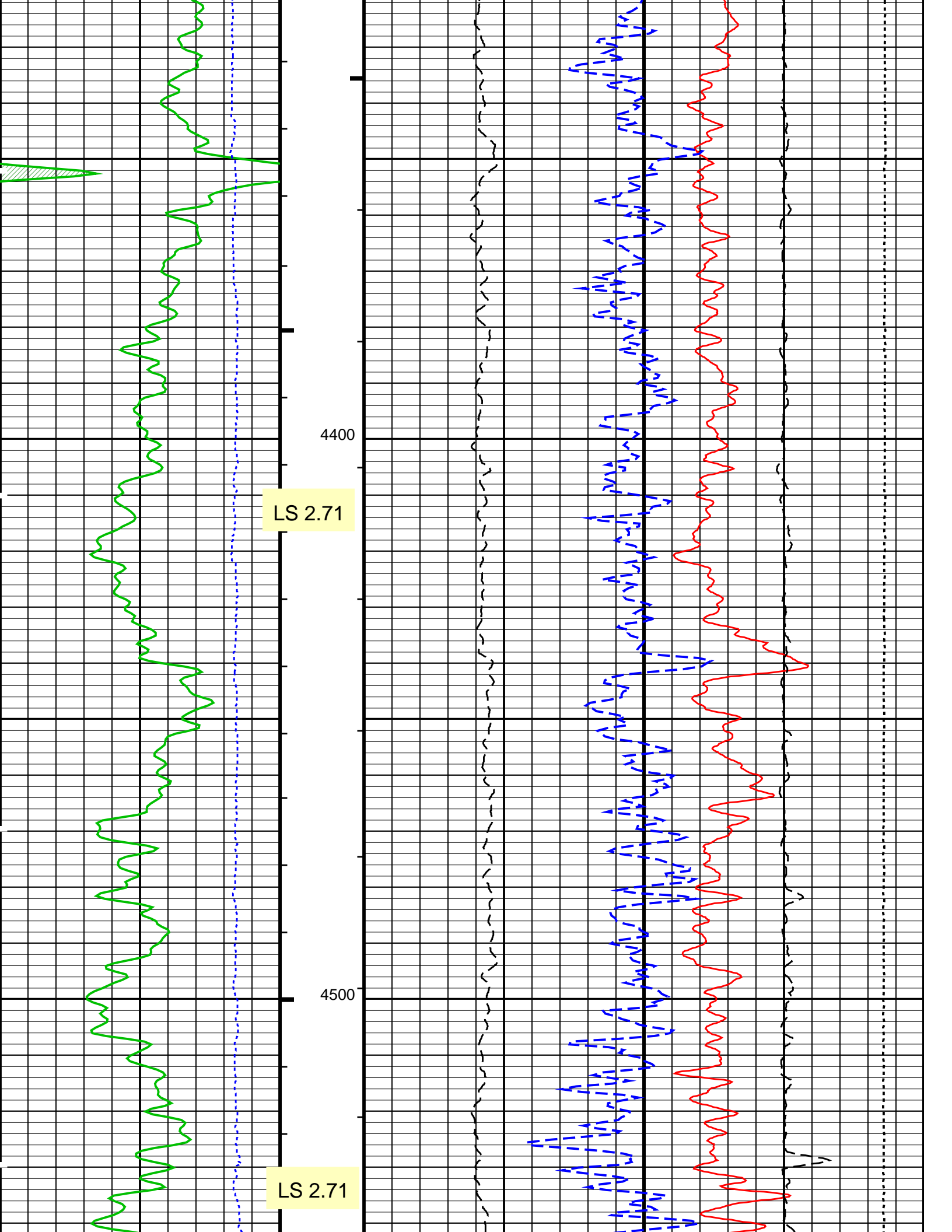


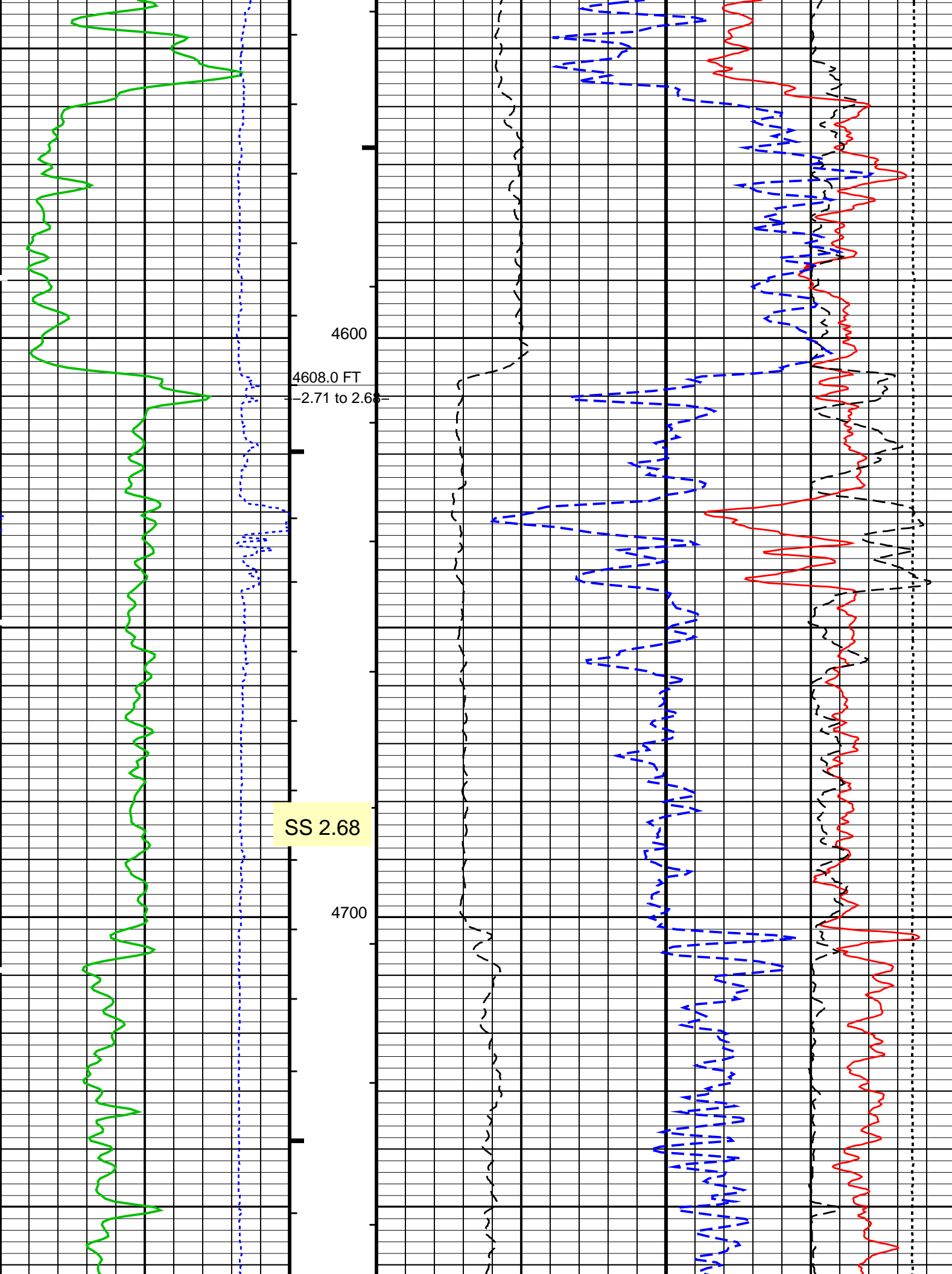


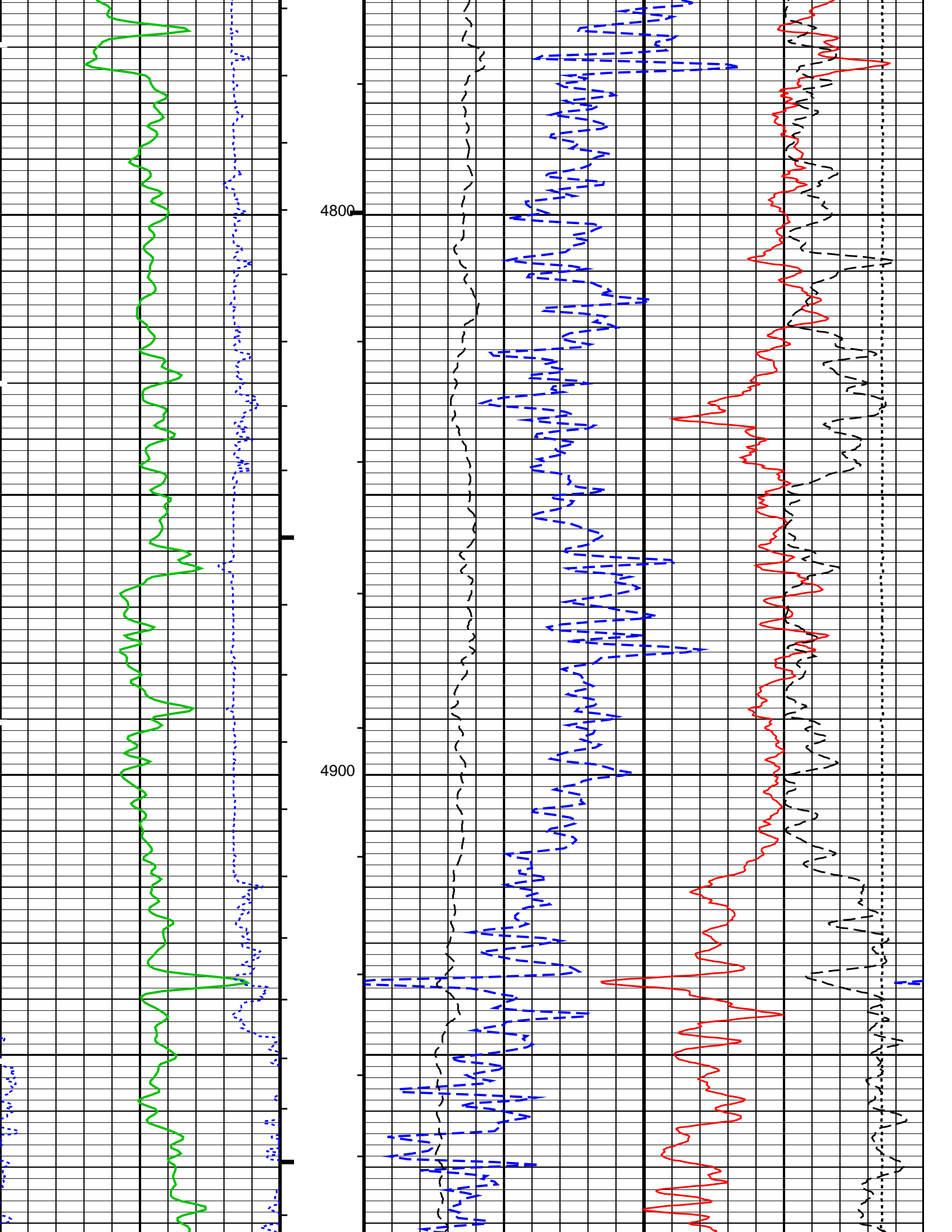


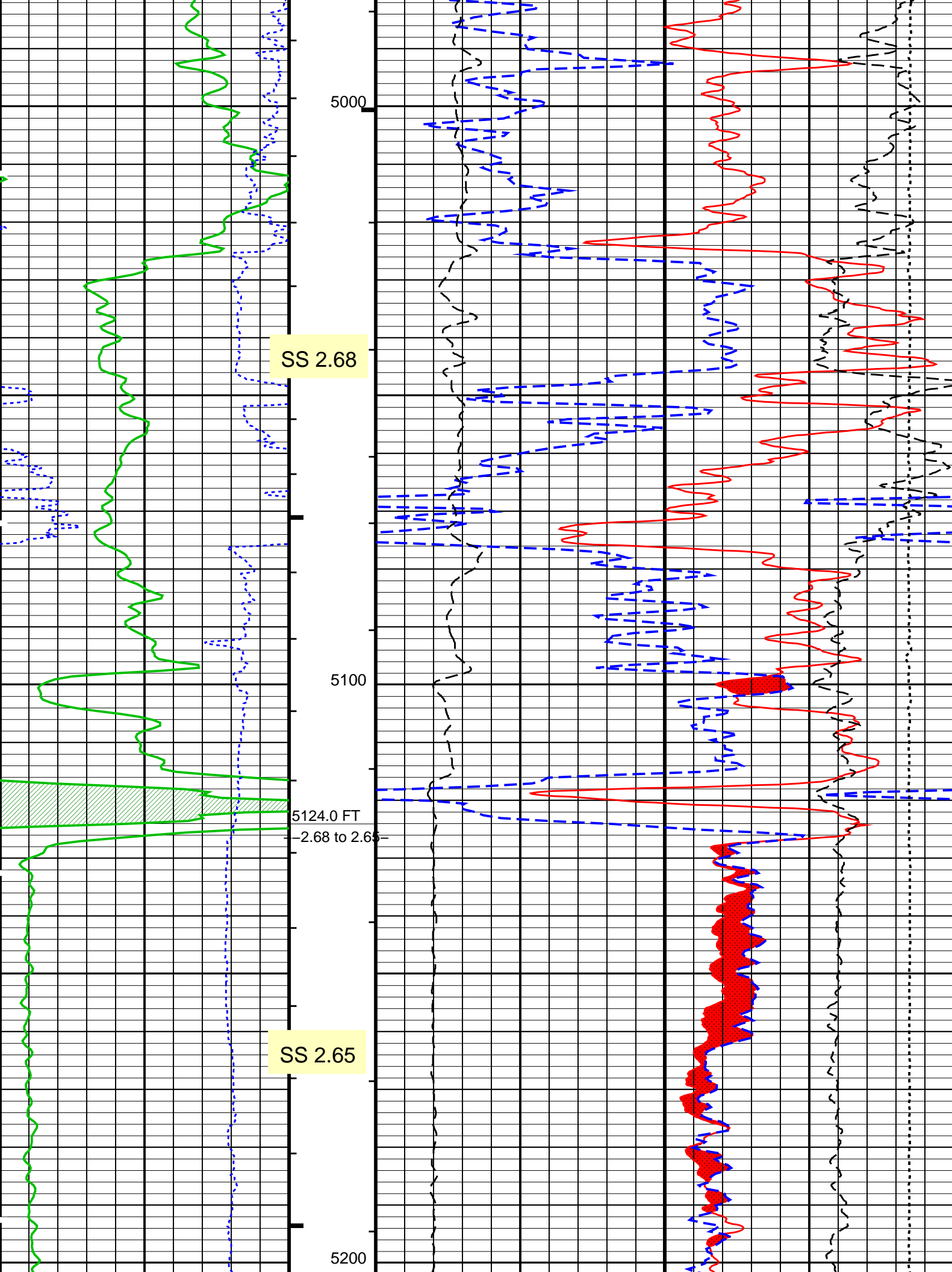


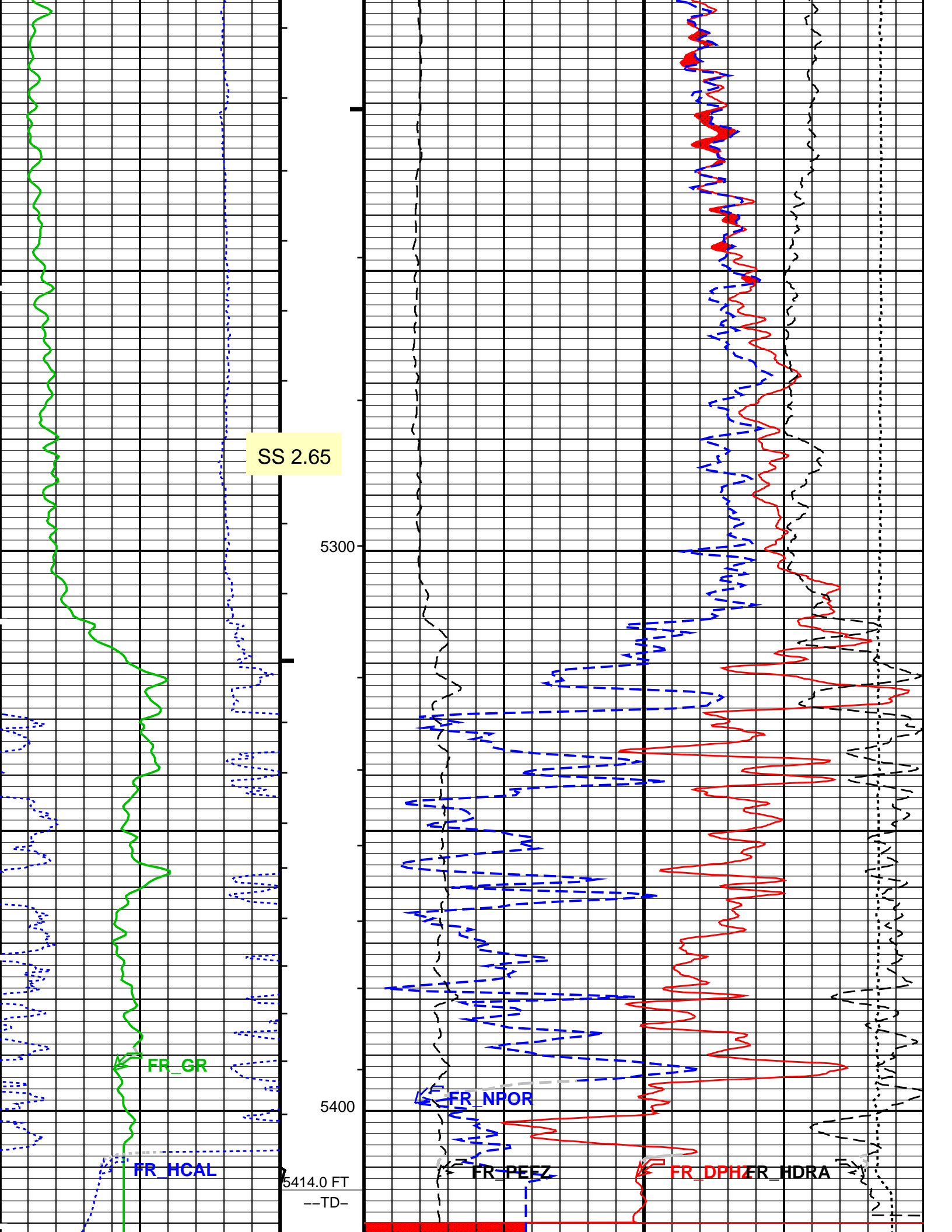












GR BACKUP	Stuck Stretch (STIT)	Std. Res. Density Porosity (DPHZ)	
	0 (F) 50	0.6 (V/V)	0
HILT Caliper (HCAL) (IN)	4 14	Alpha Processed Neutron Porosity (NPOR)	
		0.6 (V/V)	0
Gamma Ray (GR) (GAPI)	0 200	Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
		0 (----) 10	-0.25 (G/C3) 0.25
Gas Effect			
		Tension (TENS)	
		10000 (LBF)	0

#### 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	G/C3
FSAL	Formation Salinity	-50000	PPM
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	DEG
GGRD	Geothermal Gradient	0.01	DF/F
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.68	G/C3
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	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	8.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation – Real Time			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth – Driller	5433.00	FT
TDL	Total Depth – Logger	5414.00	FT

BS	System and Miscellaneous	Bit Size	12.250	IN
BSAL		Borehole Salinity	-50000.00	PPM
CSIZ		Current Casing Size	13.375	IN
CWEI		Casing Weight	54.50	LB/F
DFD		Drilling Fluid Density	9.80	LB/G
DORL		Depth Offset for Repeat Analysis	0.0	FT
MST		Mud Sample Temperature	130.00	DEGF
RMFS		Resistivity of Mud Filtrate Sample	0.4480	OHMM
TD		Total Depth	5414	FT

Format: PORO

Vertical Scale: 5" per 100'

Graphics File Created: 12-Aug-2007 15:15

OP System Version: 15C0-309

MCM

HILTB-CTS

SRPC-3357-Q2\_2007

Output DLIS Files


DEFAULT

TLD\_MCFL\_CNL\_033LUP

FN:32

PRODUCER

12-Aug-2007 15:15



REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files

DEFAULT

TLD\_MCFL\_CNL\_032PUP

FN:31

PRODUCER

12-Aug-2007 15:15

5429.5 FT

5038.5 FT

Output DLIS Files

DEFAULT

TLD\_MCFL\_CNL\_033LUP

FN:32

PRODUCER

12-Aug-2007 15:15

OP System Version: 15C0-309

MCM

HILTB-CTS

SRPC-3357-Q2\_2007

Changed Parameter Summary			
DLIS Name	New Value	Previous Value	Depth & Time
MATR	SANDSTONE	SANDSTONE	5425.0 15:16:29
	SANDSTONE	SANDSTONE	5124.0 15:21:44
MDEN	2.65 G/C3	2.68 G/C3	5425.0 15:16:29
	2.68 G/C3	2.65 G/C3	5124.0 15:21:44

PIP SUMMARY

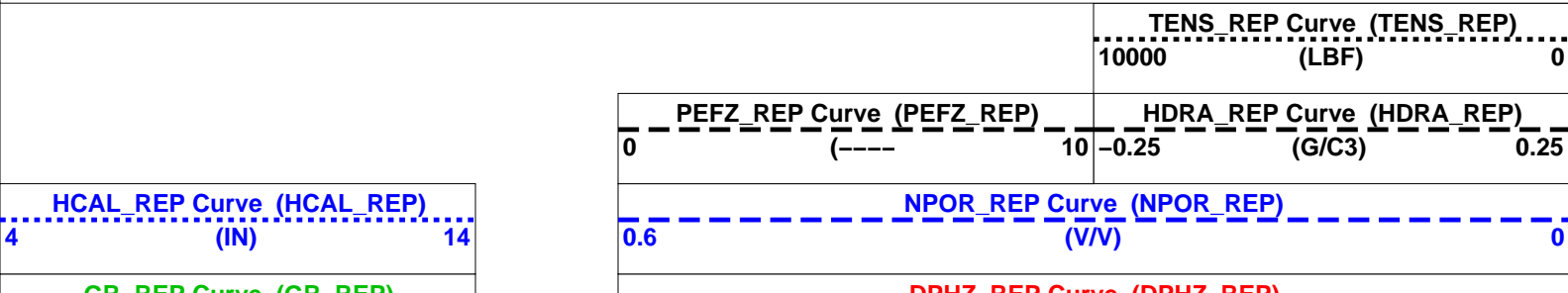
Integrated Hole Volume Minor Pip Every 10 F3

Integrated Hole Volume Major Pip Every 100 F3

Integrated Cement Volume Minor Pip Every 10 F3

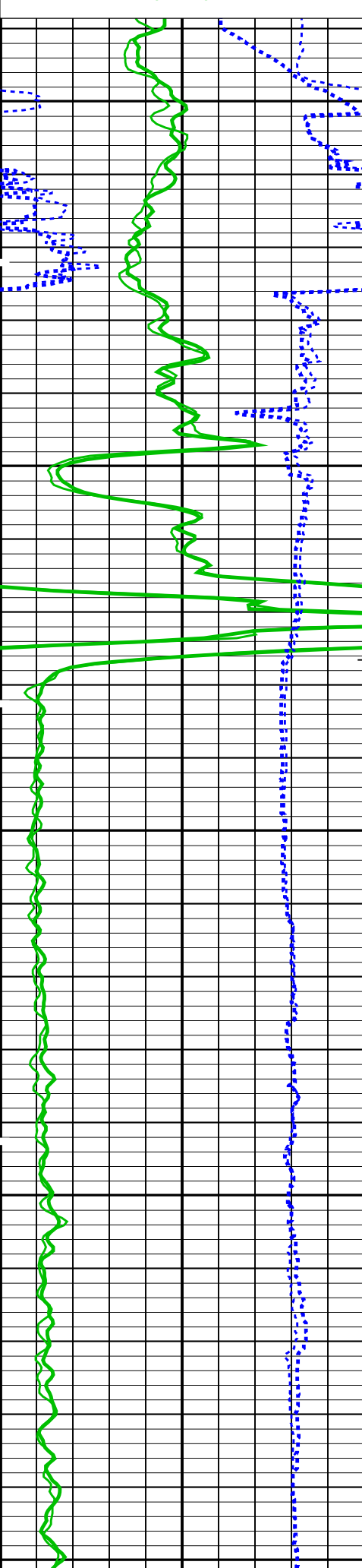
Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S



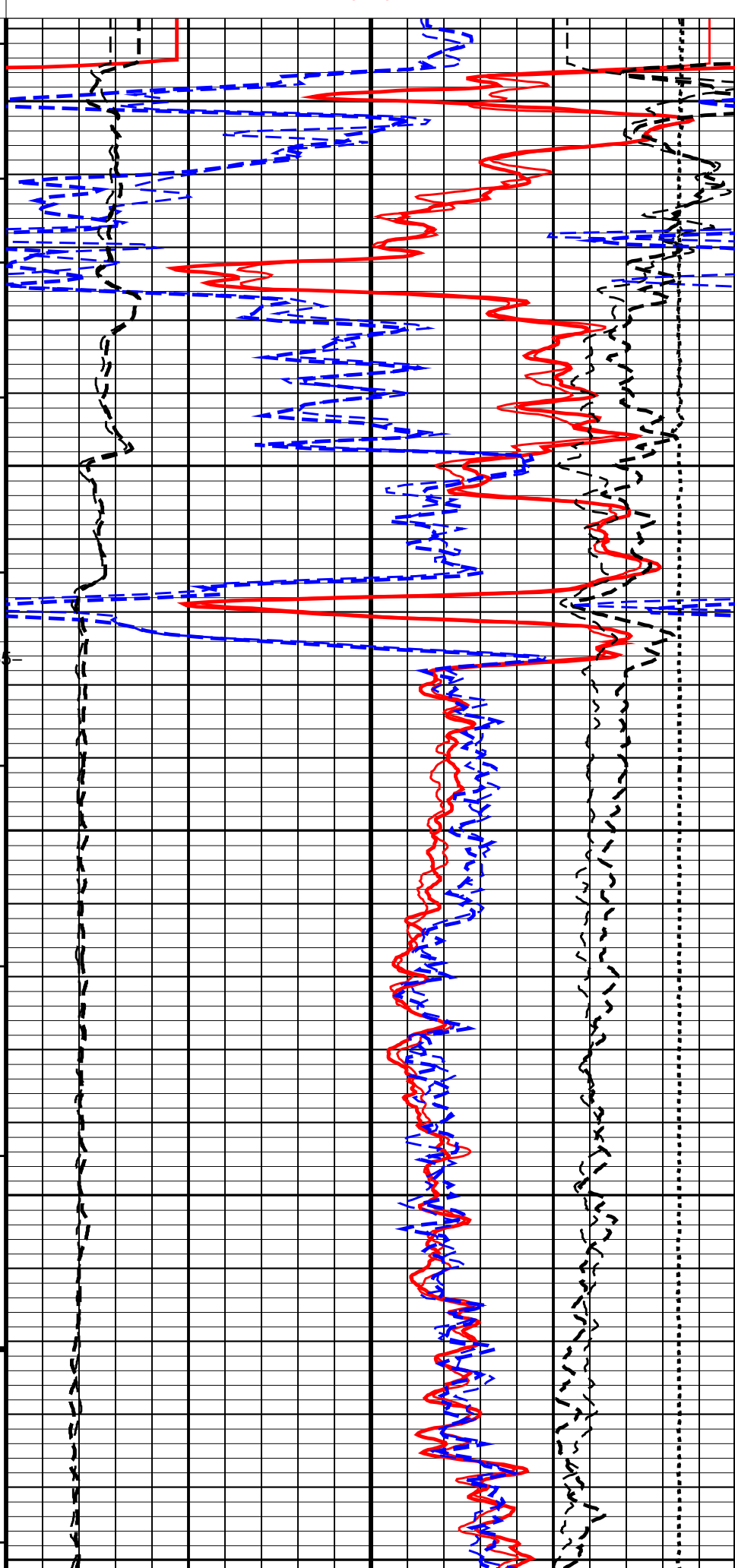
GR\_REF Curve (GR\_REF)  
(GAPI)

0 200



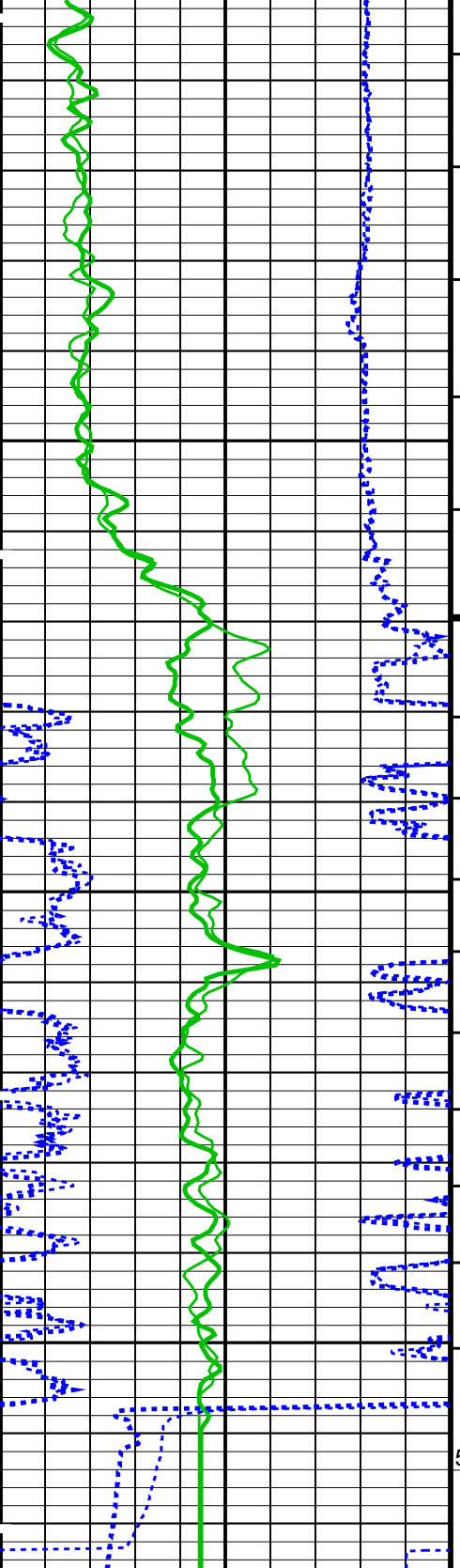
DPH2\_REF Curve (DPH2\_REF)  
(VV)

0.6 0



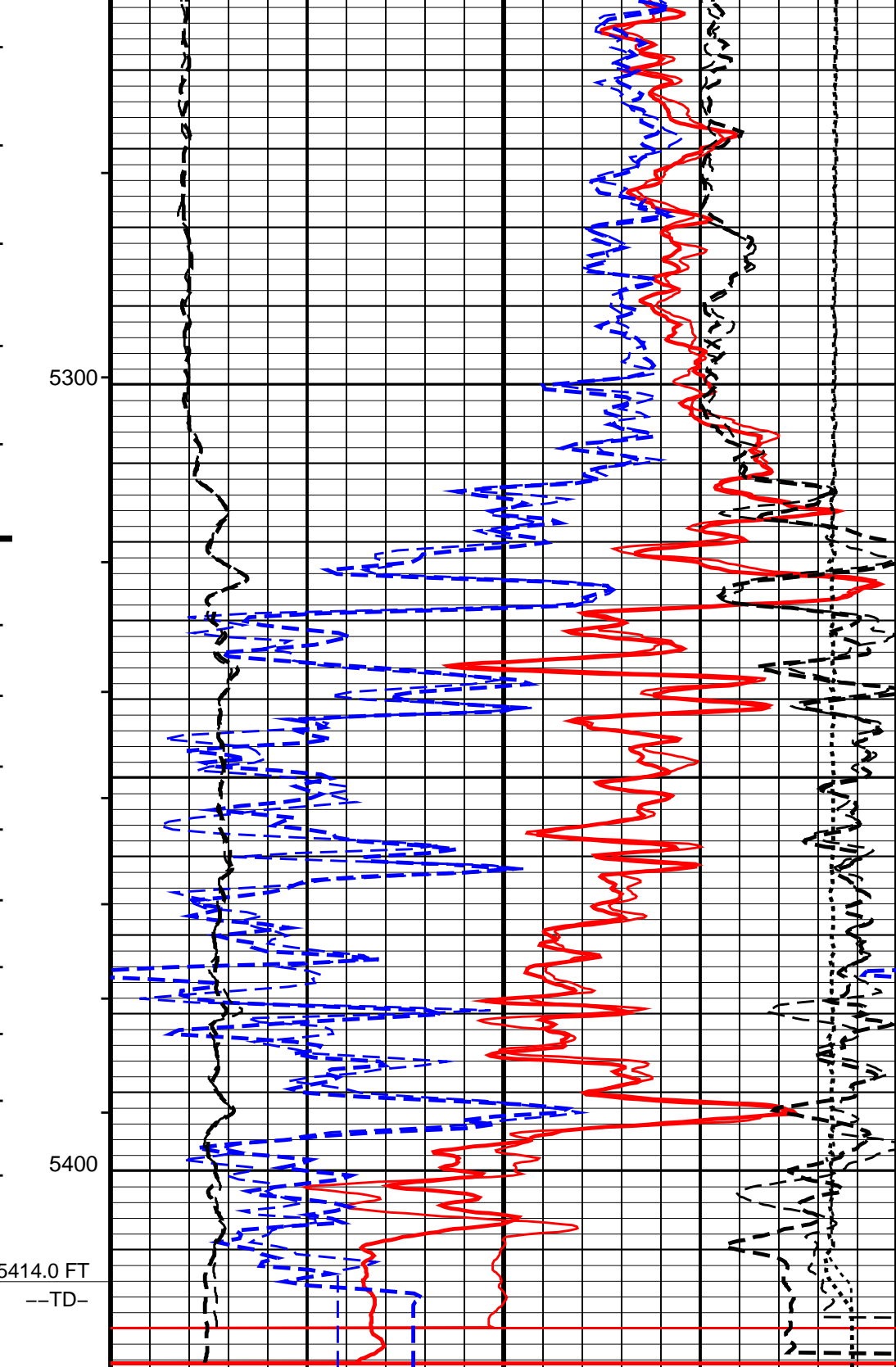
5124.0 FT  
-2.68 to 2.65-





GR\_REP Curve (GR\_REP)  
(GAPI) 200

HCAL\_REP Curve (HCAL\_REP)  
(IN) 14



DPHZ\_REP Curve (DPHZ\_REP)  
(V/V) 0.6 0

NPOR\_REP Curve (NPOR\_REP)  
(V/V) 0.6 0

PEZF\_REP Curve (PEZF\_REP)  
(----) 10 0

HDRA\_REP Curve (HDRA\_REP)  
(G/C3) 0.25 0

TENS\_REP Curve (TENS\_REP)  
(LBF) 10000 0

### PIP SUMMARY

Integrated Hole Volume Minor Pip Every 10 F3

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	G/C3		
FSAL	Formation Salinity	-50000	PPM		
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	DEG		
GGRD	Geothermal Gradient	0.01	DF/F		
HSCO	Hole Size Correction Option	YES			
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE			
MCCO	Mud Cake Correction Option	NO			
MCOR	Mud Correction	NATU			
MDEN	Matrix Density	2.68	G/C3		
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	IN		
PTCO	Pressure/Temperature Correction Option	NO			
SDAT	Standoff Data Source	SOCN			
SHT	Surface Hole Temperature	68	DEGF		
SOCN	Standoff Distance	0.125	IN		
SOCO	Standoff Correction Option	YES			
HOLEV: Integrated Hole/Cement Volume					
BHS	Borehole Status	OPEN			
FCD	Future Casing (Outer) Diameter	8.625	IN		
GCSE	Generalized Caliper Selection	HCAL			
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG		
GGRD	Geothermal Gradient	0.01	DF/F		
HVCS	Integrated Hole Volume Caliper Selection	HCAL			
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE			
SHT	Surface Hole Temperature	68	DEGF		
PERT: Preliminary Evaluation - Real Time					
BHS	Borehole Status	OPEN			
GCSE	Generalized Caliper Selection	HCAL			
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG		
GGRD	Geothermal Gradient	0.01	DF/F		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE			
SHT	Surface Hole Temperature	68	DEGF		
STI: Stuck Tool Indicator					
TDL	Total Depth - Logger	5414.00	FT		
System and Miscellaneous					
BS	Bit Size	12.250	IN		
BSAL	Borehole Salinity	-50000.00	PPM		
CSIZ	Current Casing Size	13.375	IN		
CWEI	Casing Weight	54.50	LB/F		
DFD	Drilling Fluid Density	9.80	LB/G		
DORL	Depth Offset for Repeat Analysis	0.0	FT		
MST	Mud Sample Temperature	130.00	DEGF		
RMFS	Resistivity of Mud Filtrate Sample	0.4480	OHMM		
TD	Total Depth	5414	FT		

Format: PORO\_REP

Vertical Scale: 5" per 100'

Graphics File Created: 12-Aug-2007 15:15

OP System Version: 15C0-309

MCM

HILTB-CTS

SRPC-3357-Q2\_2007

Input DLIS Files						
DEFAULT	TLD_MCFL_CNL_032PUP	FN:31	PRODUCER	12-Aug-2007 15:15	5429.5 FT	5038.5 FT
Output DLIS Files						
DEFAULT	TLD_MCFL_CNL_033LUP	FN:32	PRODUCER	12-Aug-2007 15:15		

**Schlumberger****MAIN DENSITY LOG 5" = 100'**

MAXIS Field Log

**Schlumberger****BEFORE CALIBRATIONS**

MAXIS Field Log

**Output DLIS Files**

DEFAULT TLD\_MCFL\_CNL\_033LUP FN:32 PRODUCER 12-Aug-2007 15:15 5425.0 FT 451.5 FT

**Integrated Hole/Cement Volume Summary**

Hole Volume = 5506.22 F3

Cement Volume = 3502.62 F3 (assuming 8.63 IN casing O.D.)

Computed from 5414.0 FT to 476.0 FT using data channel(s) HCAL

**OP System Version: 15C0-309**

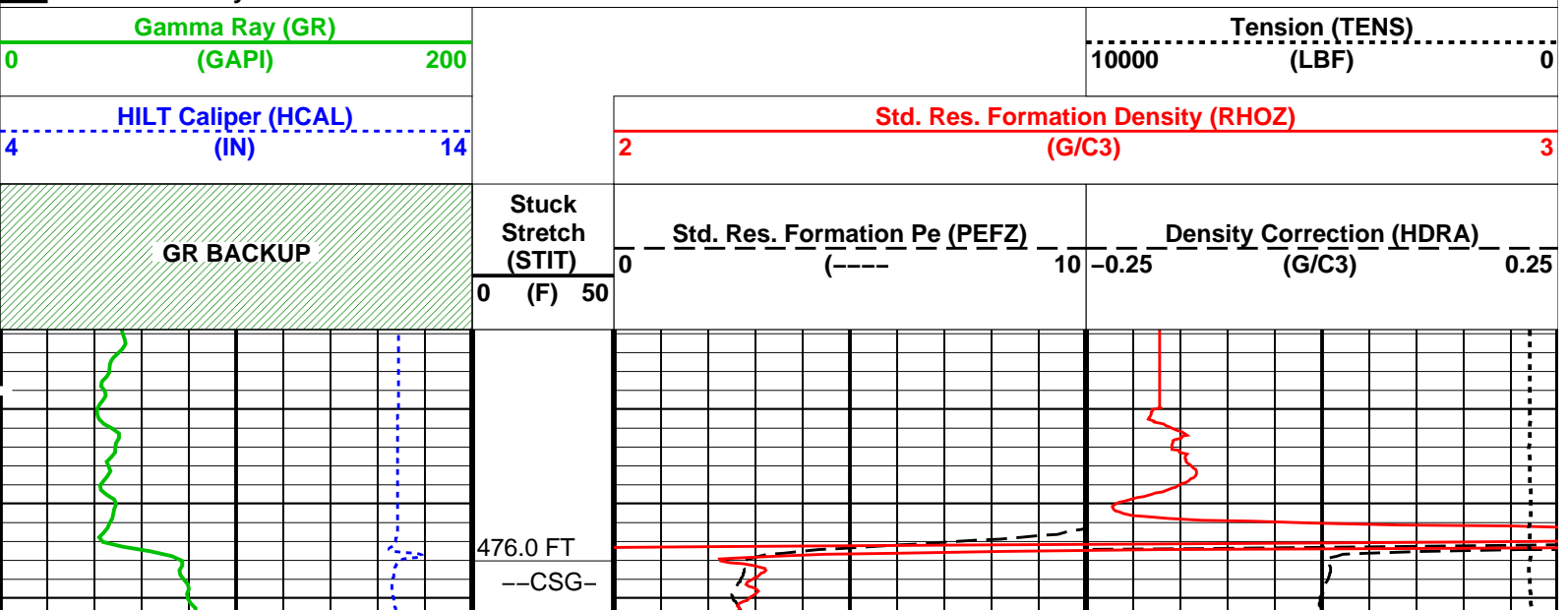
MCM

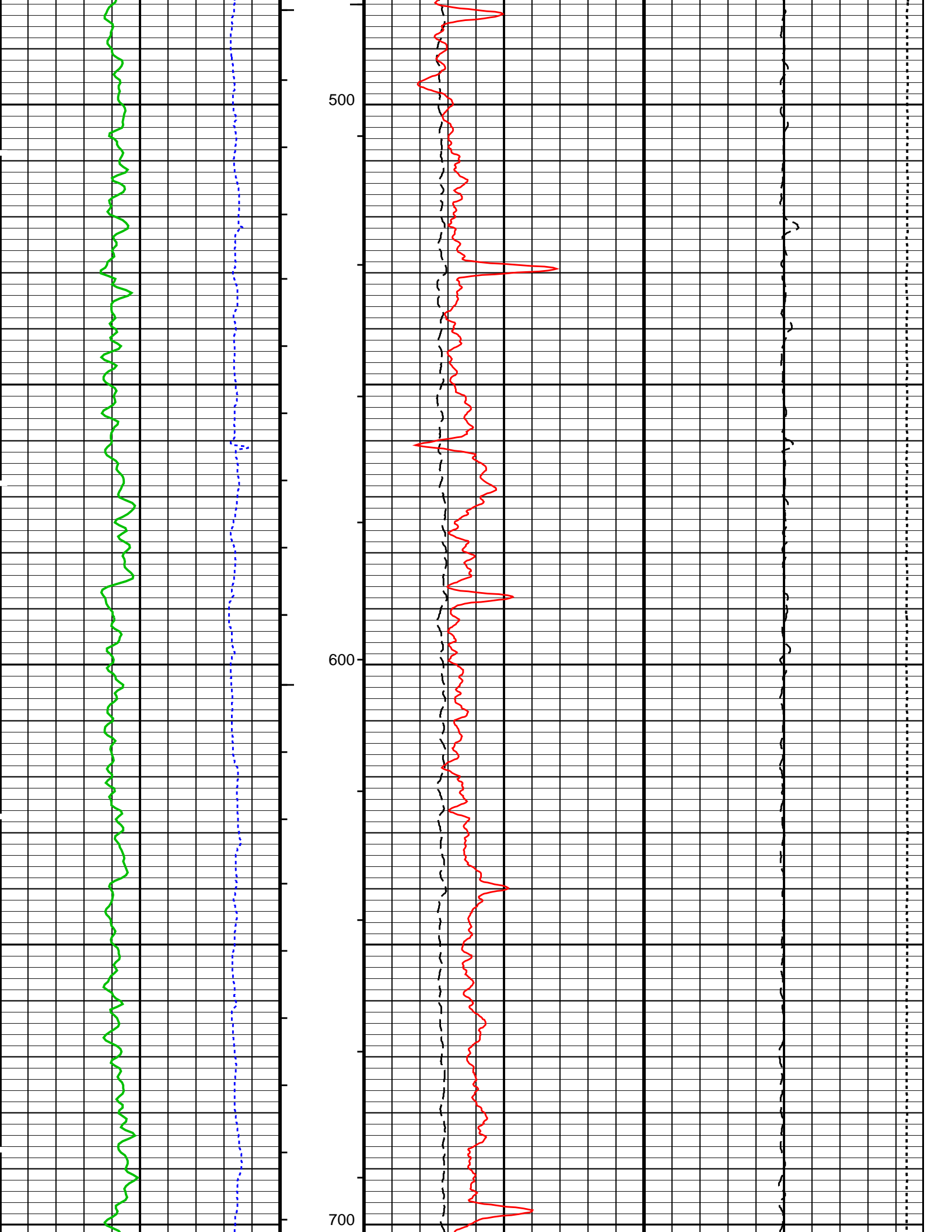
HILTB-CTS SRPC-3357-Q2\_2007

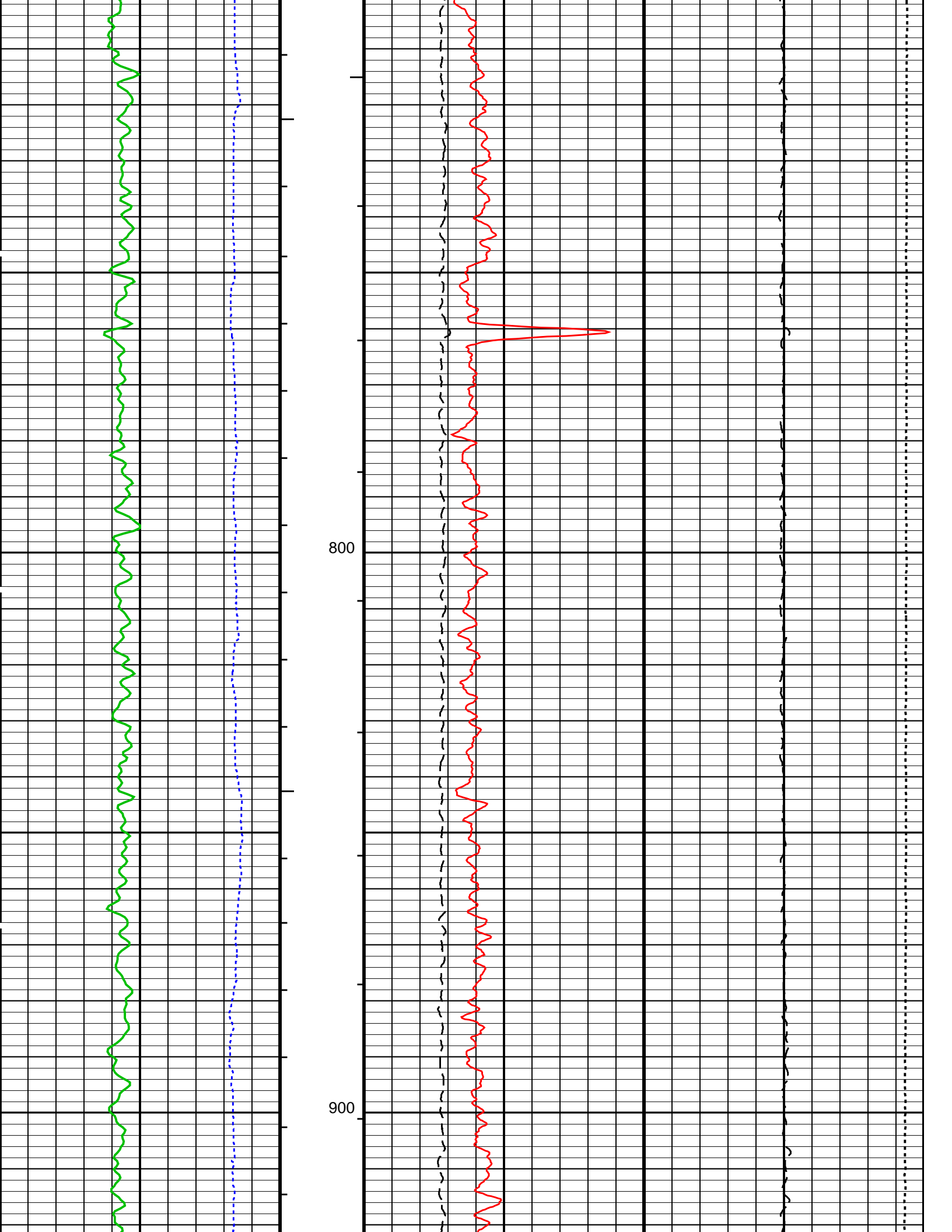
**PIP SUMMARY**

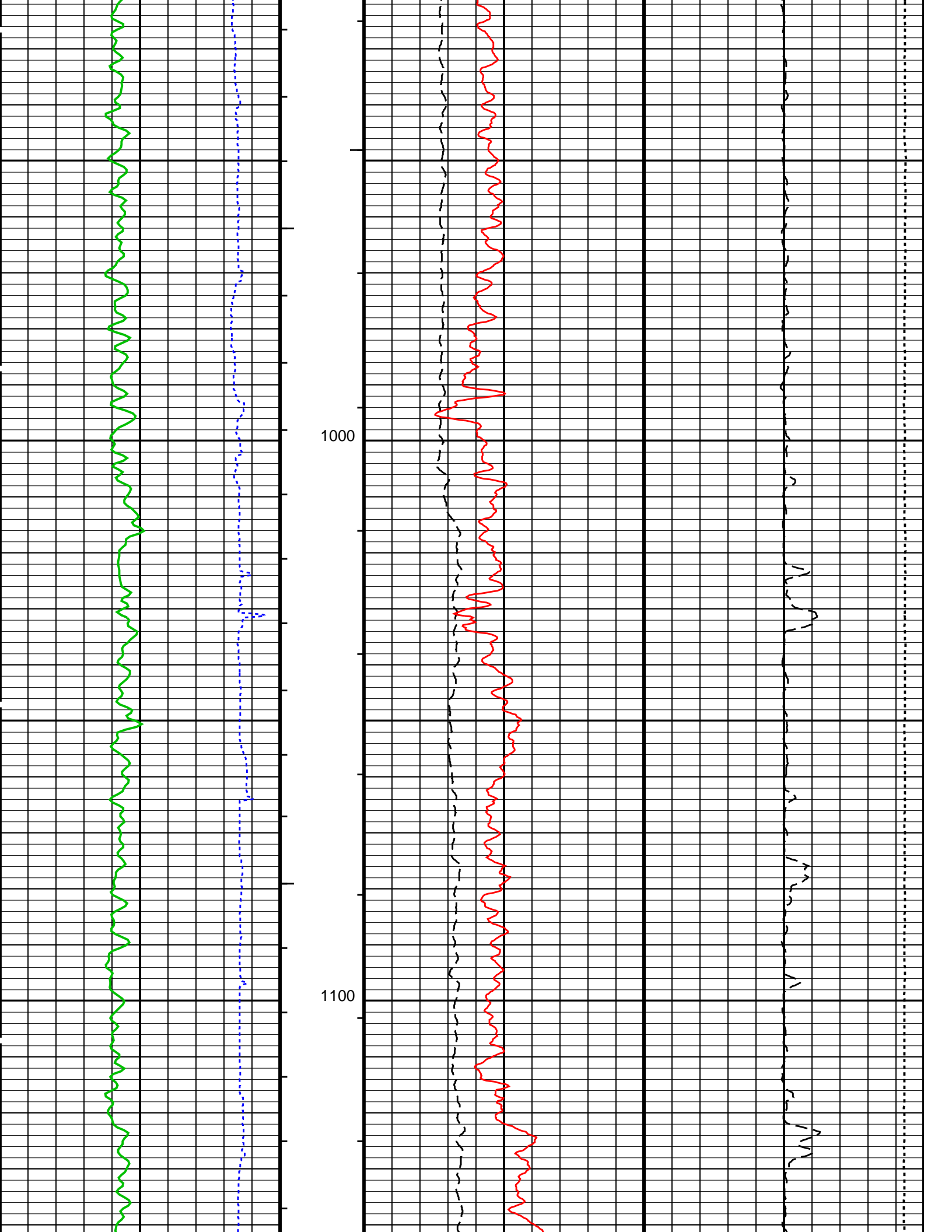
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
  - └ Integrated Cement Volume Minor Pip Every 10 F3
  - └ Integrated Cement Volume Major Pip Every 100 F3

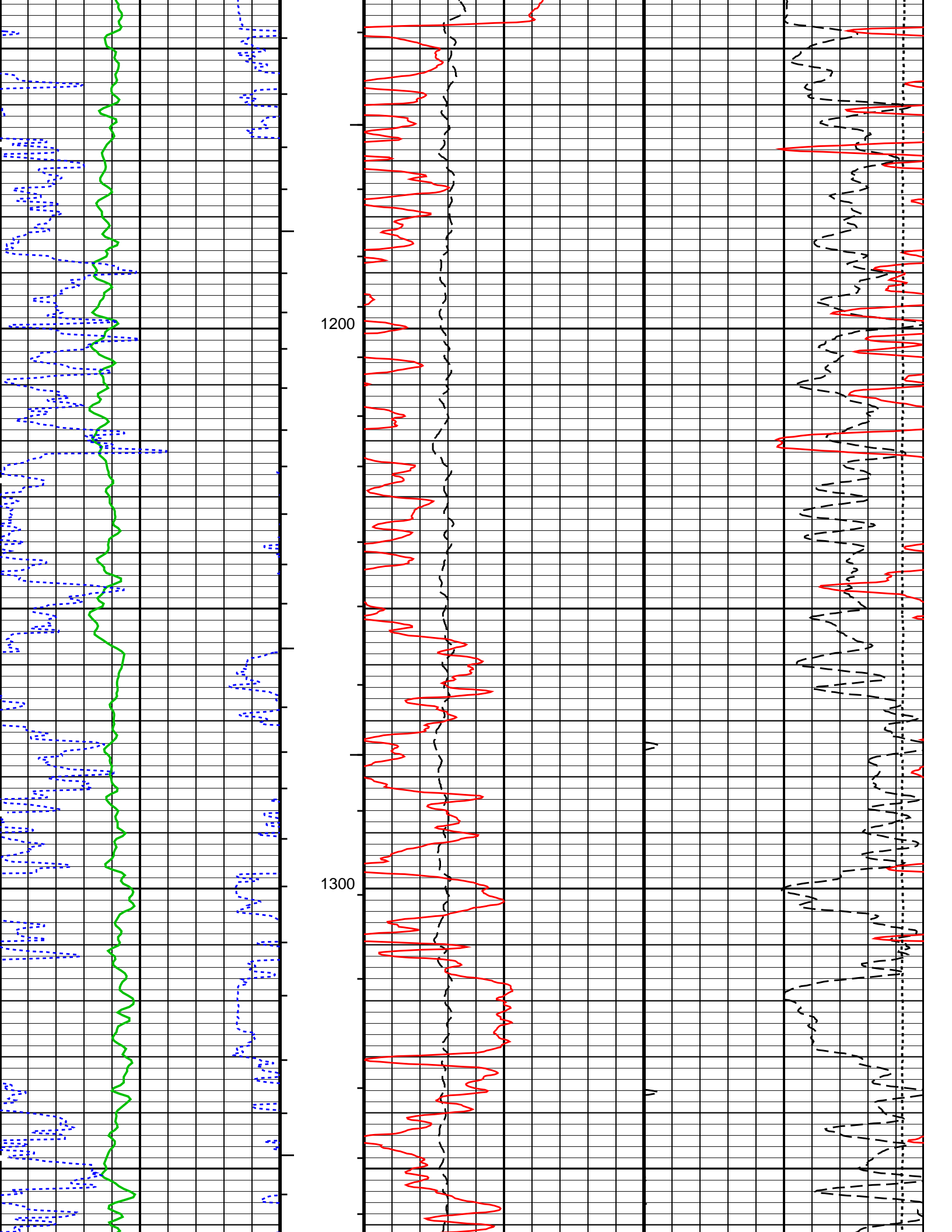
Time Mark Every 60 S

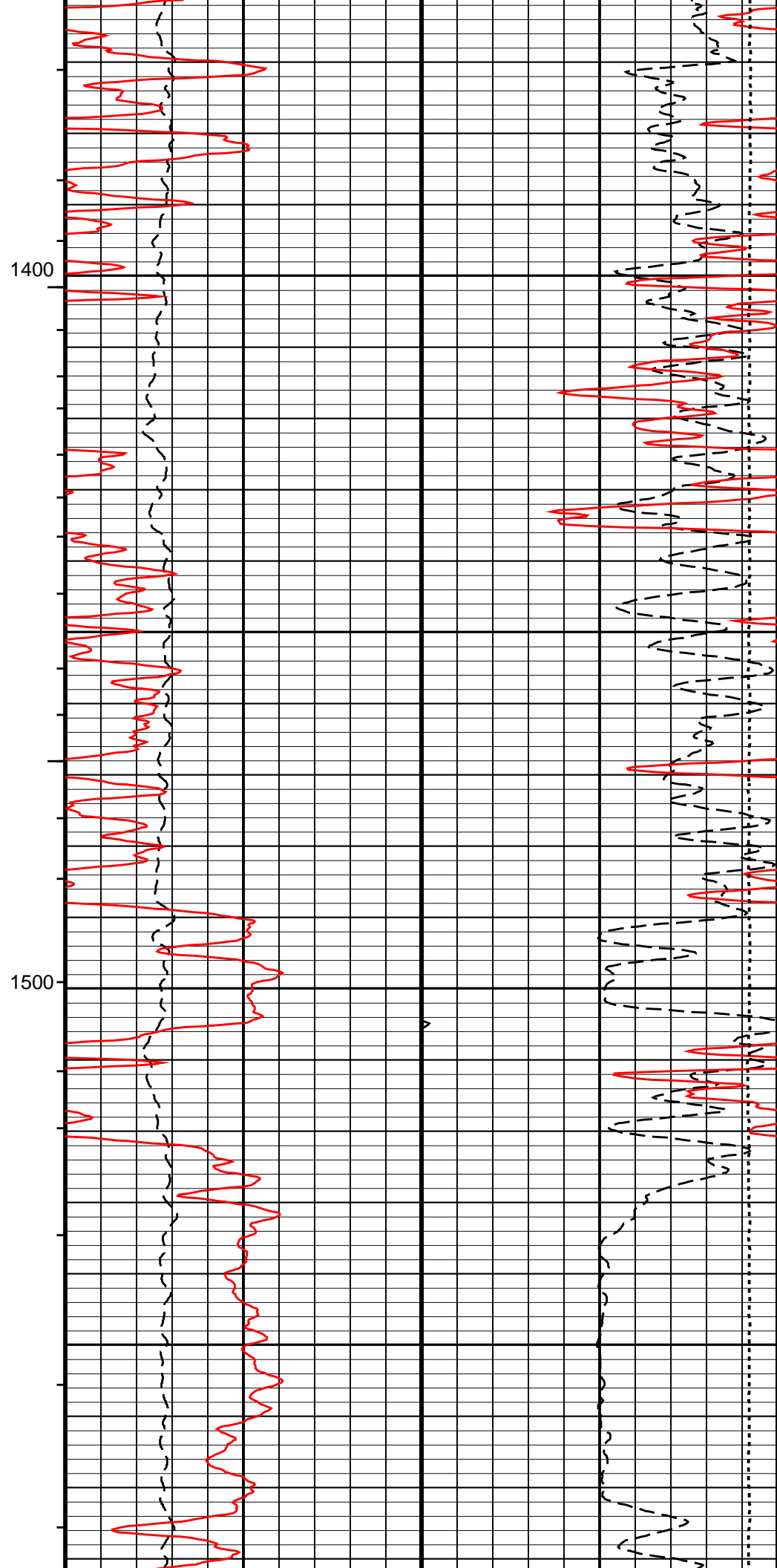
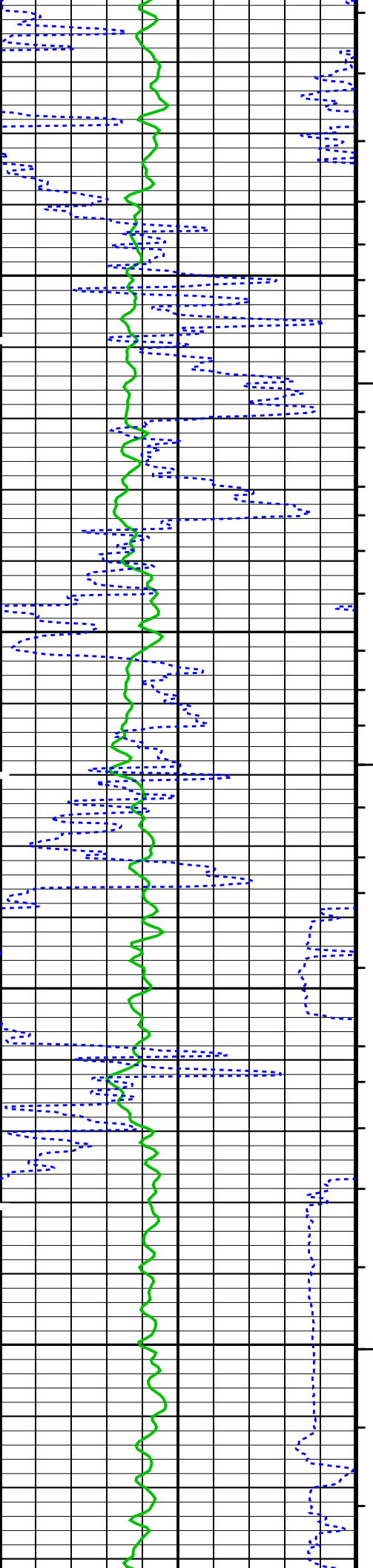




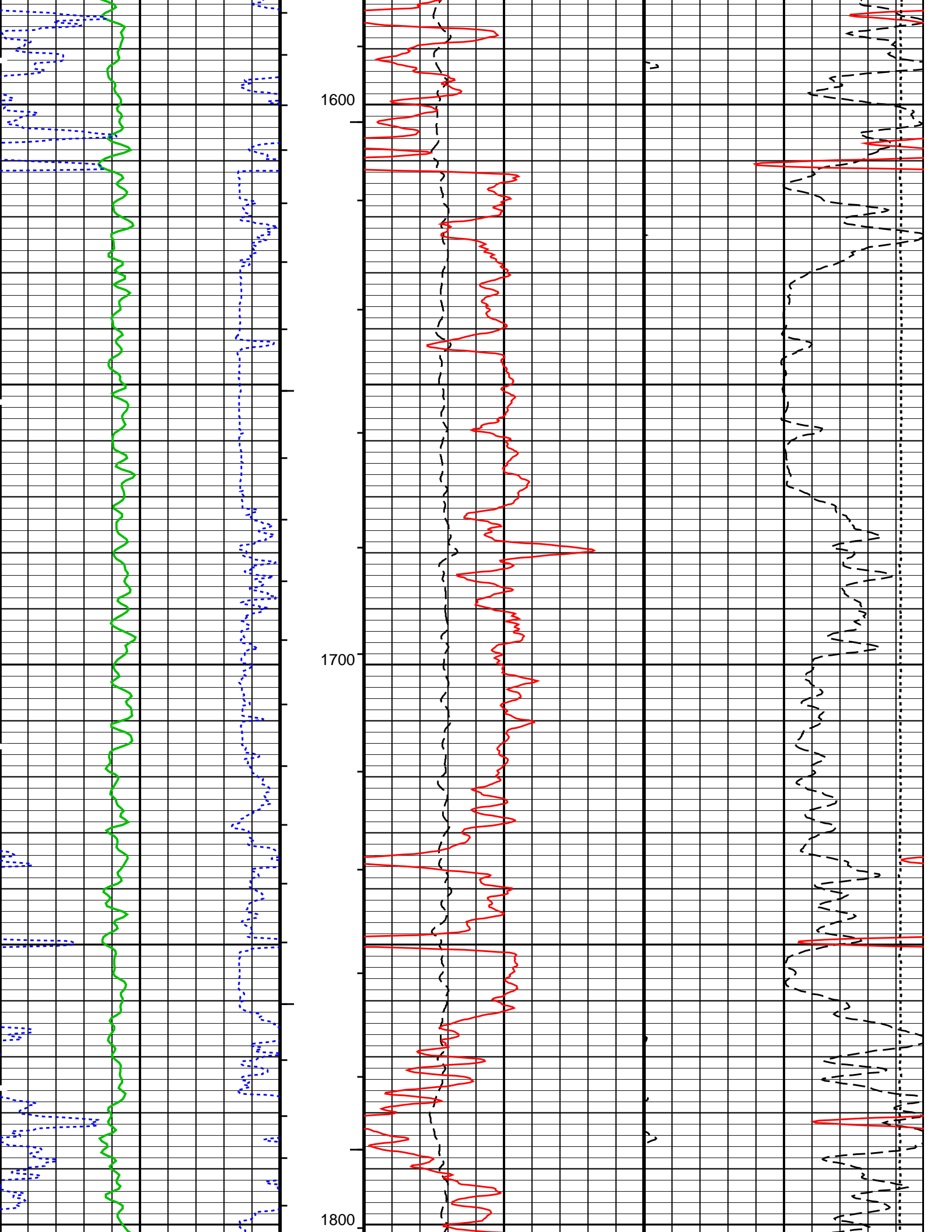


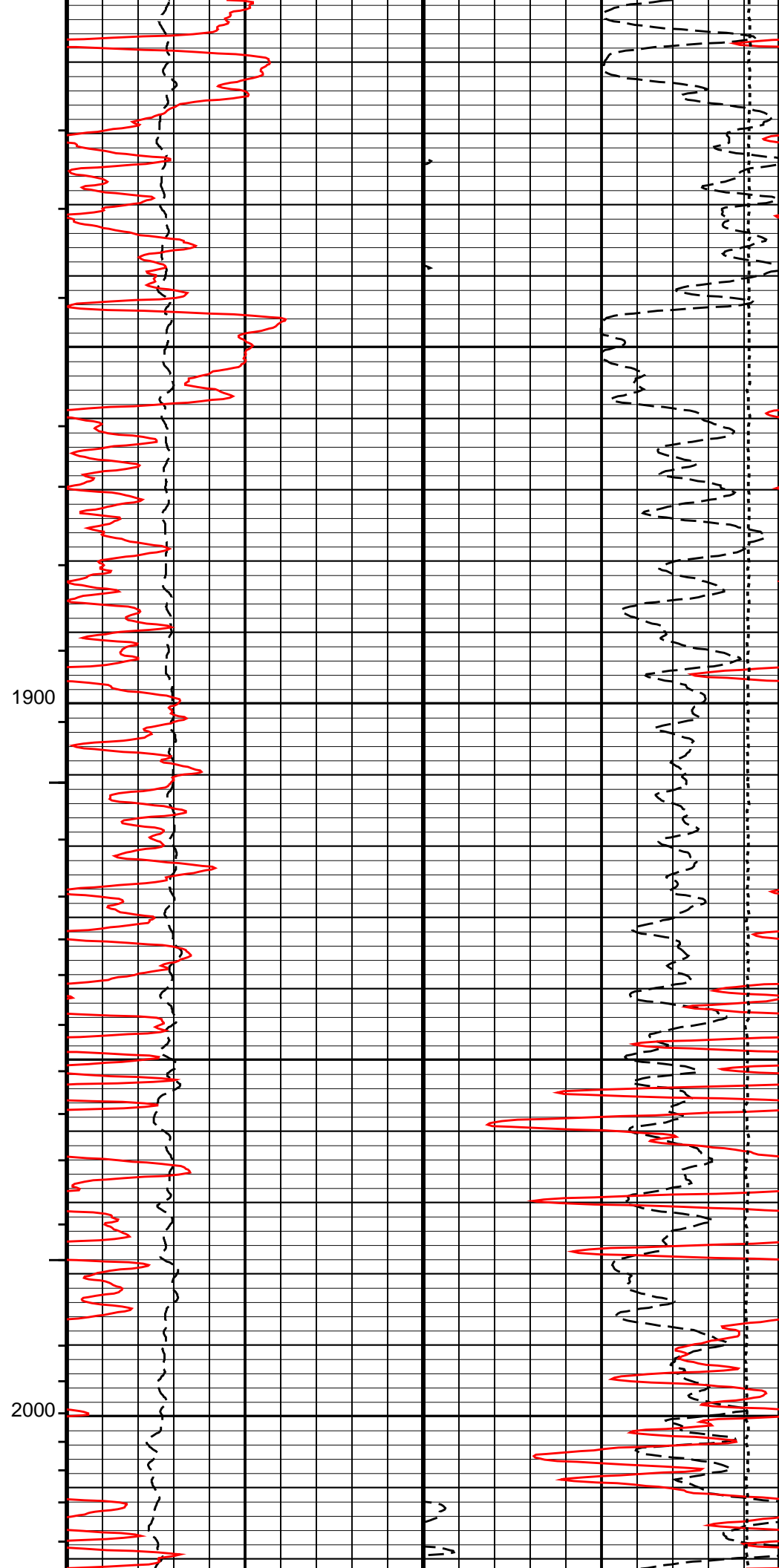
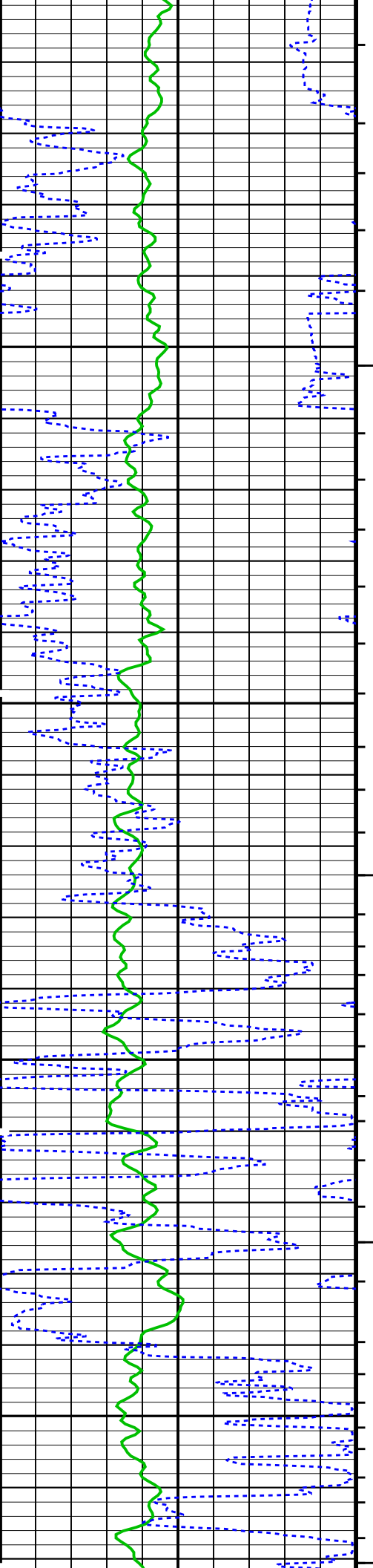


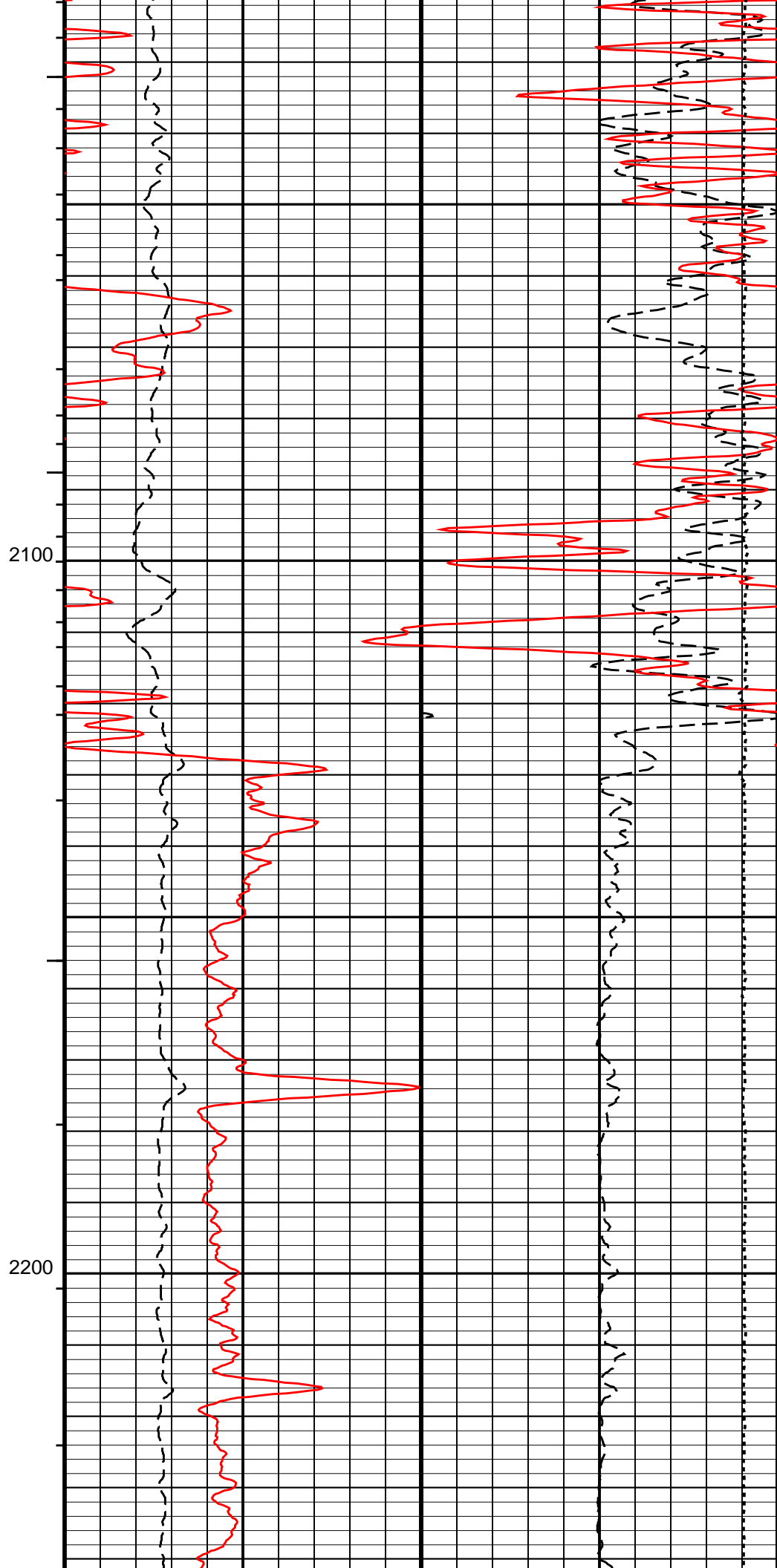
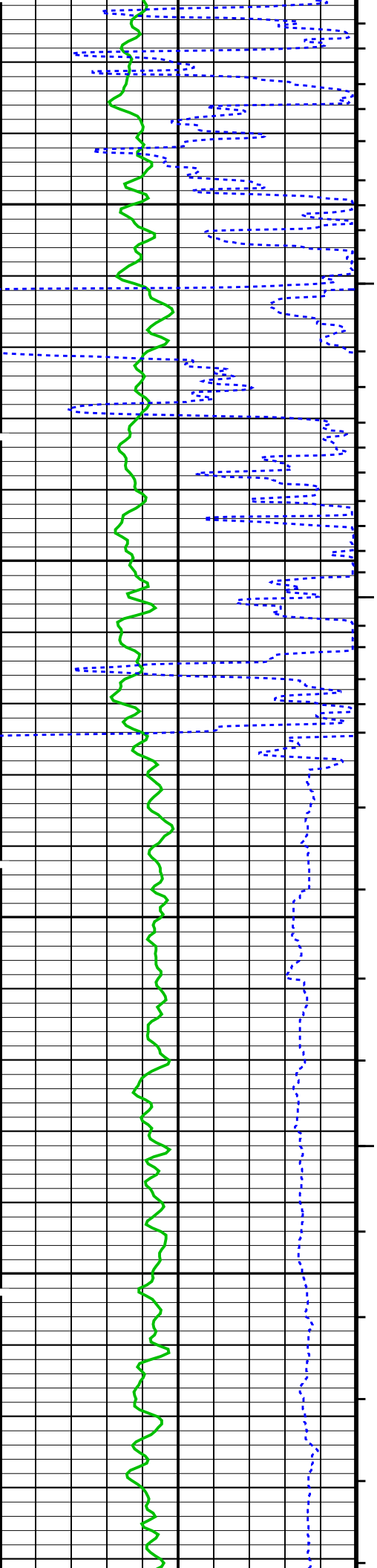


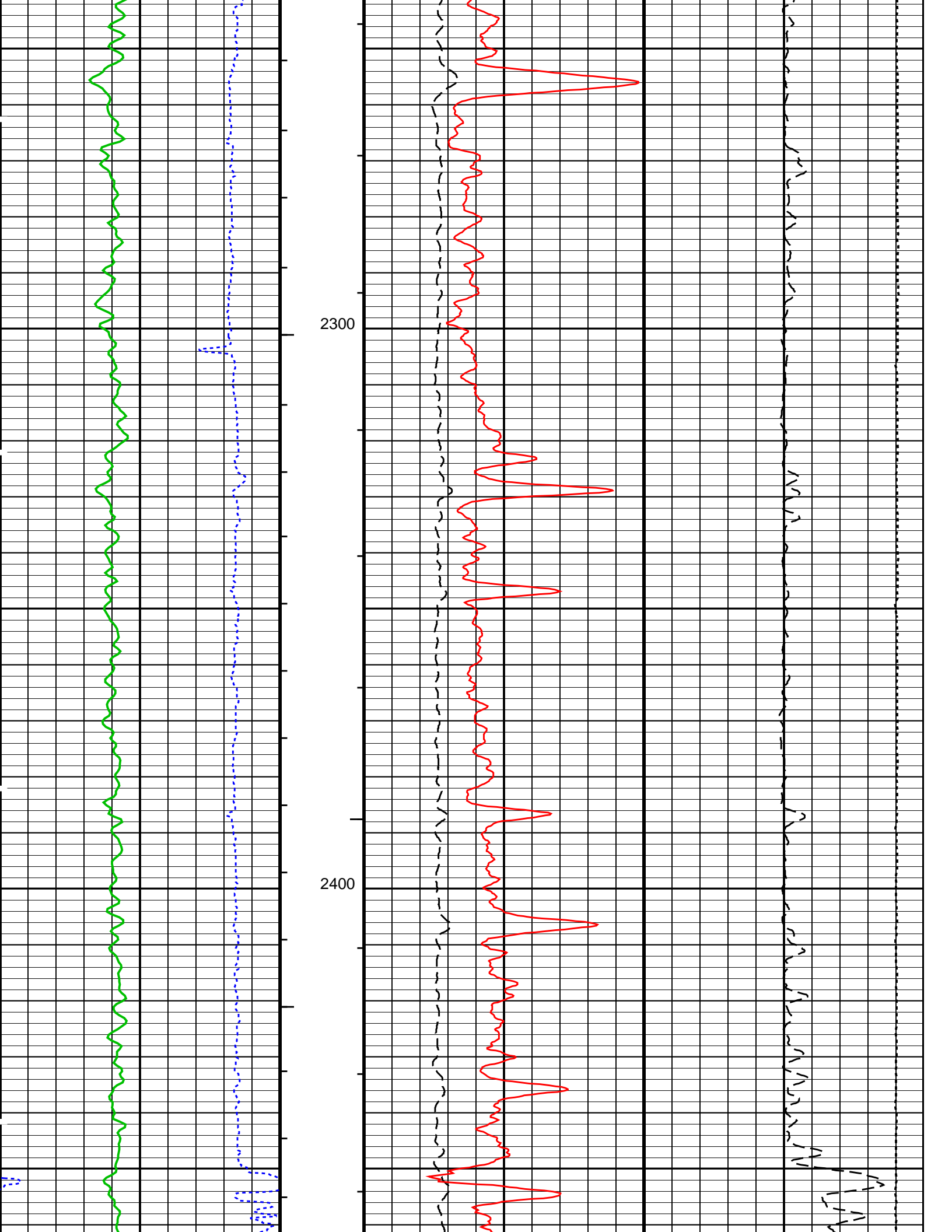


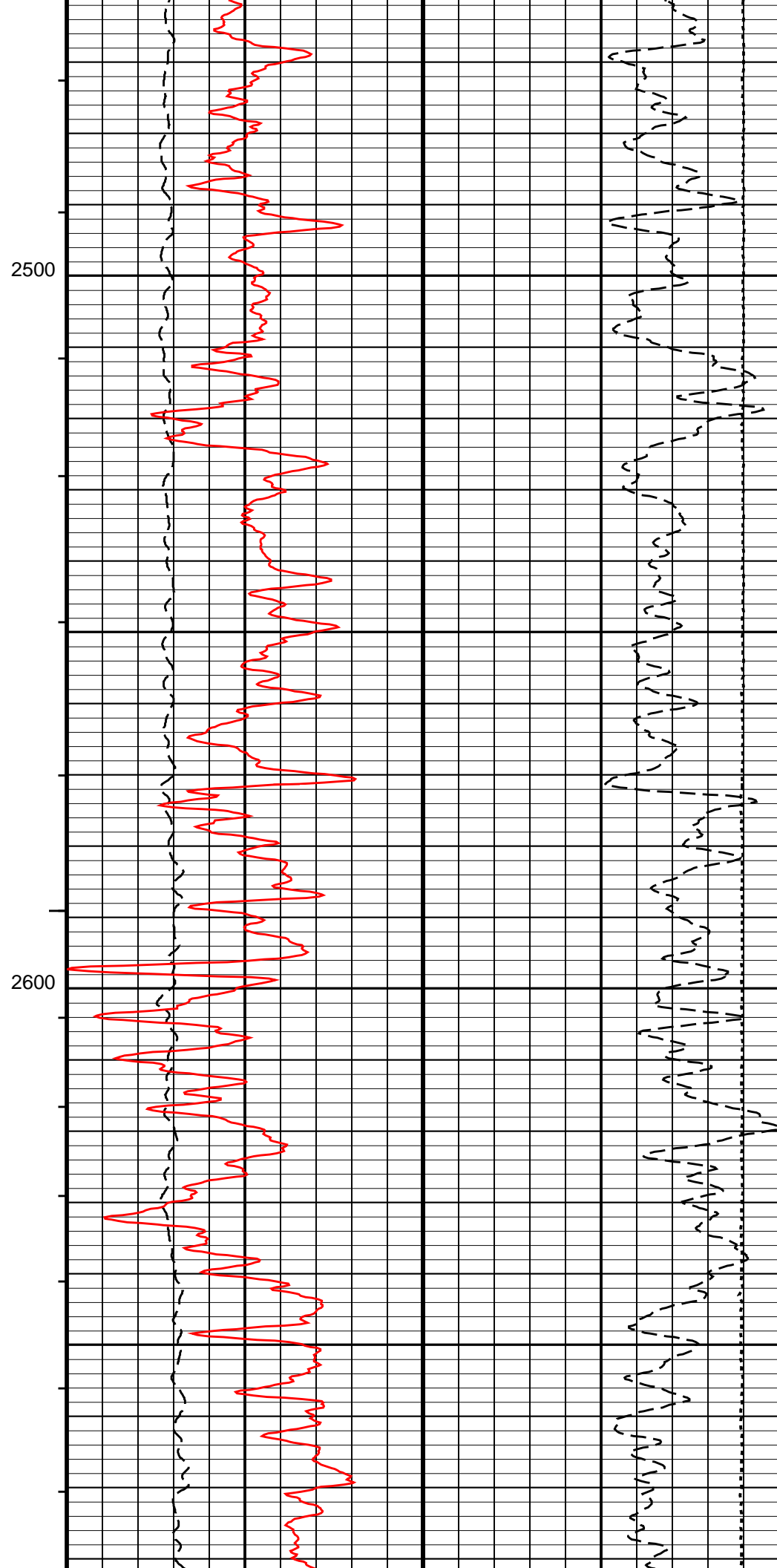
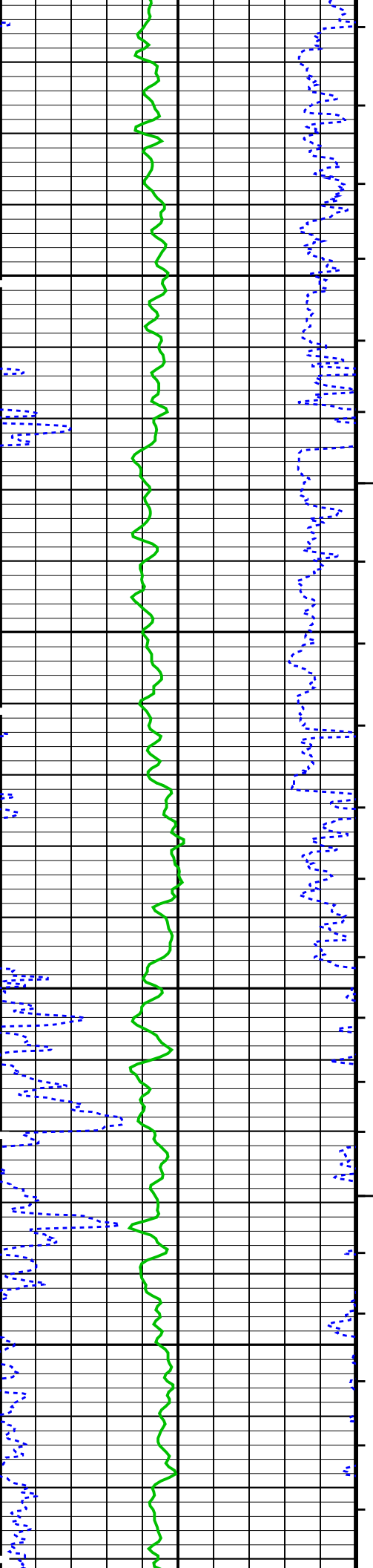


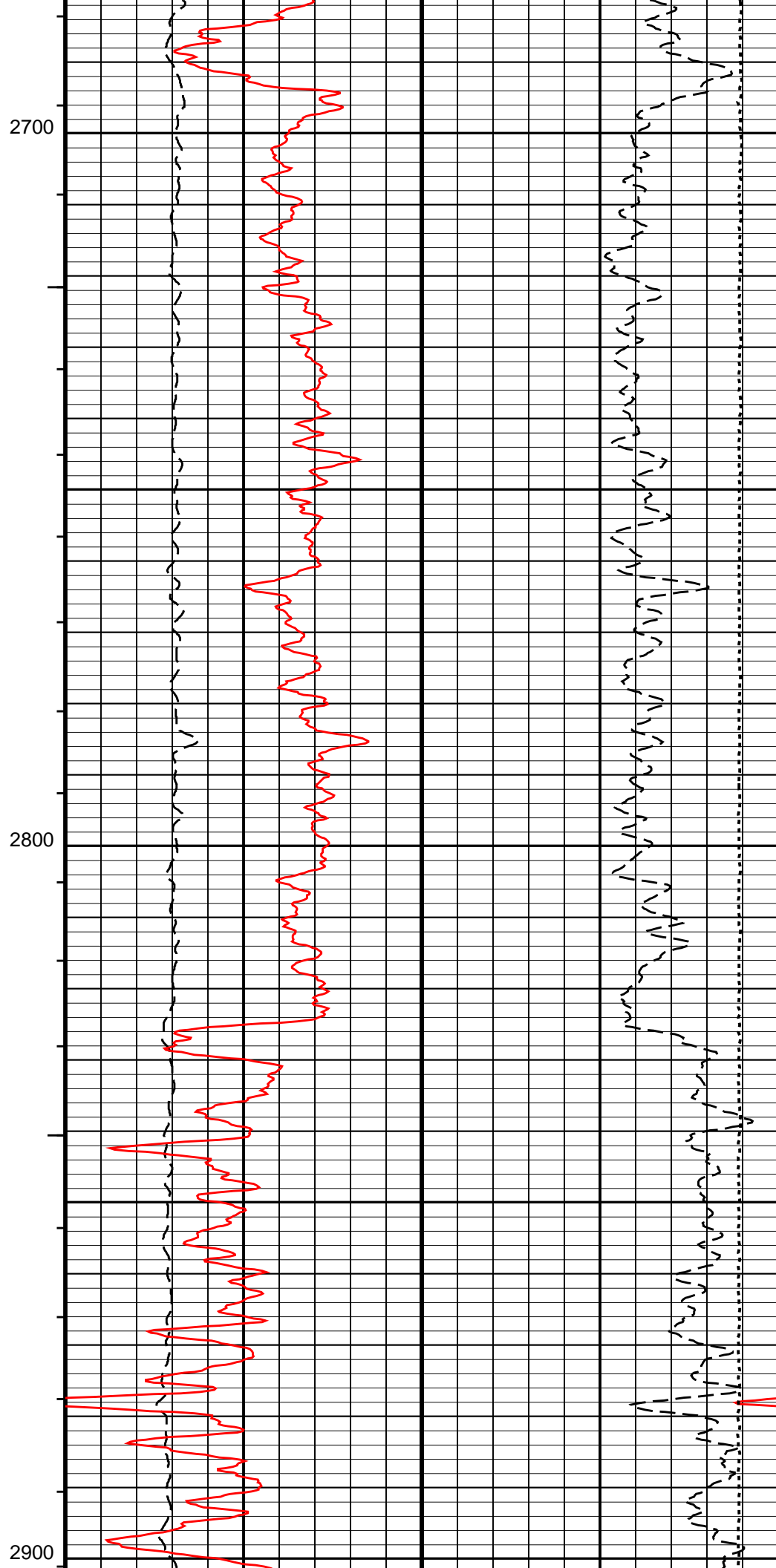
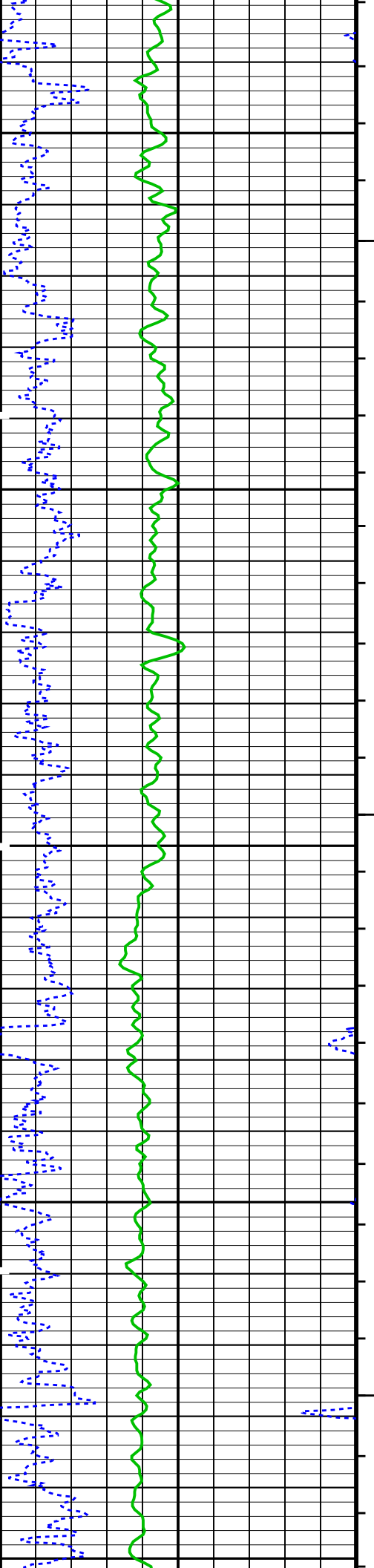


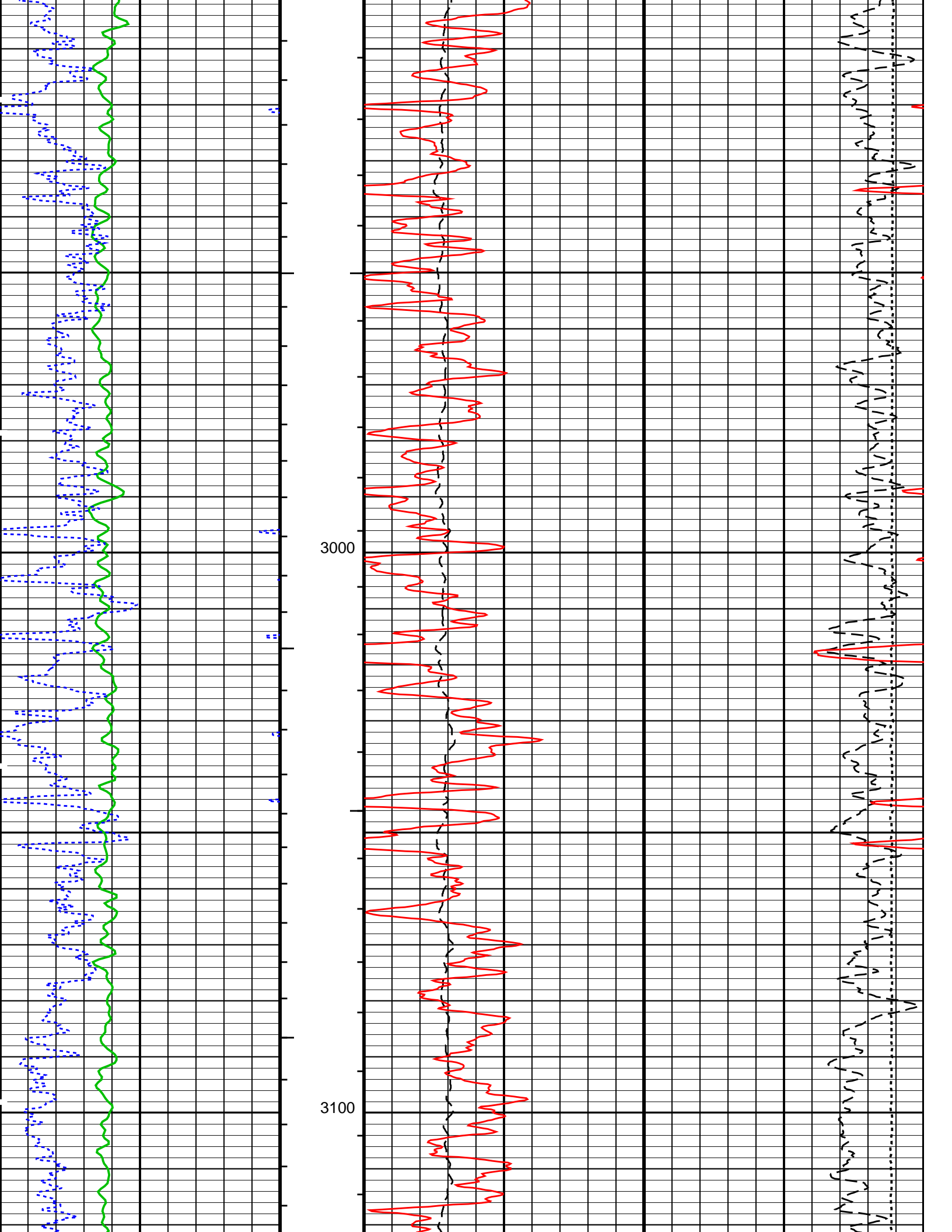


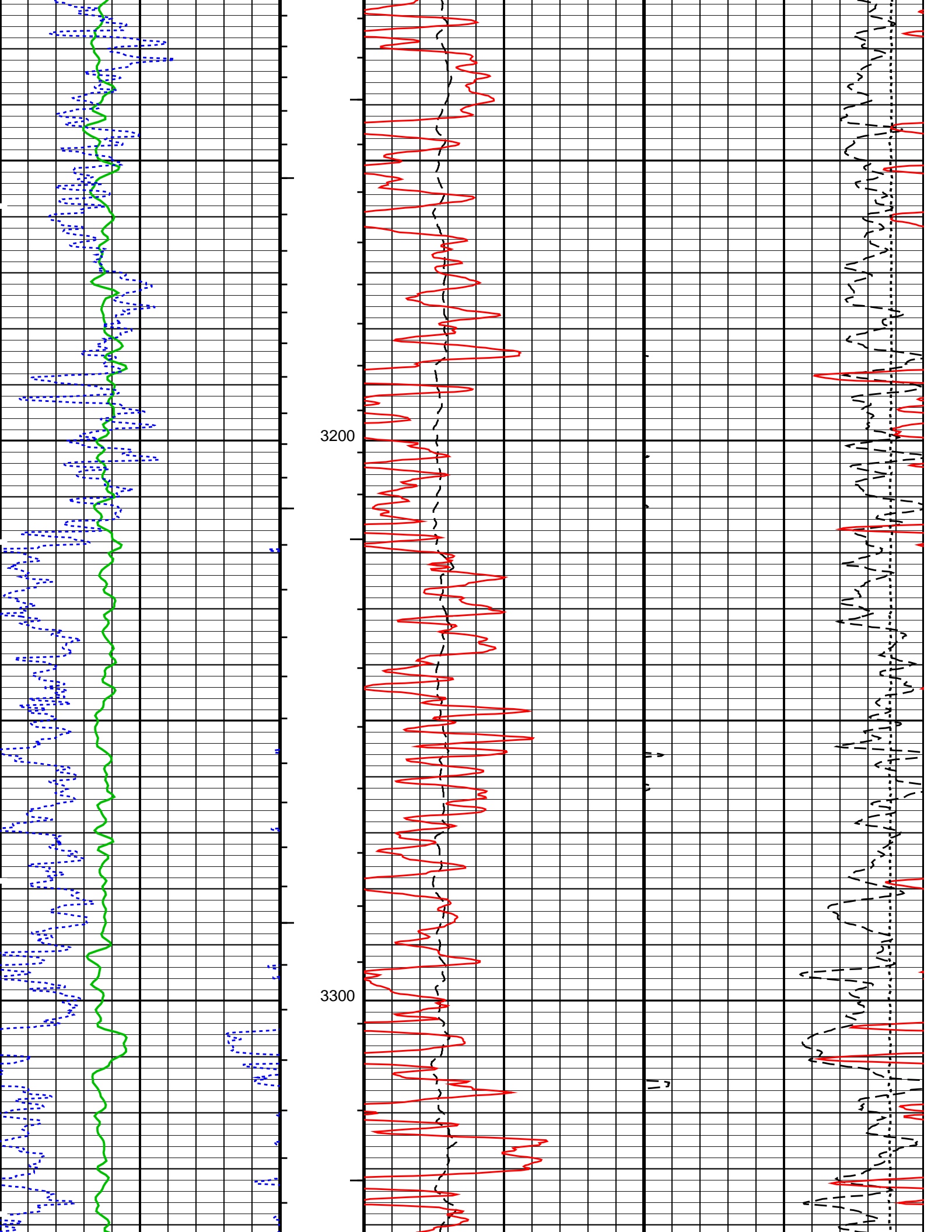




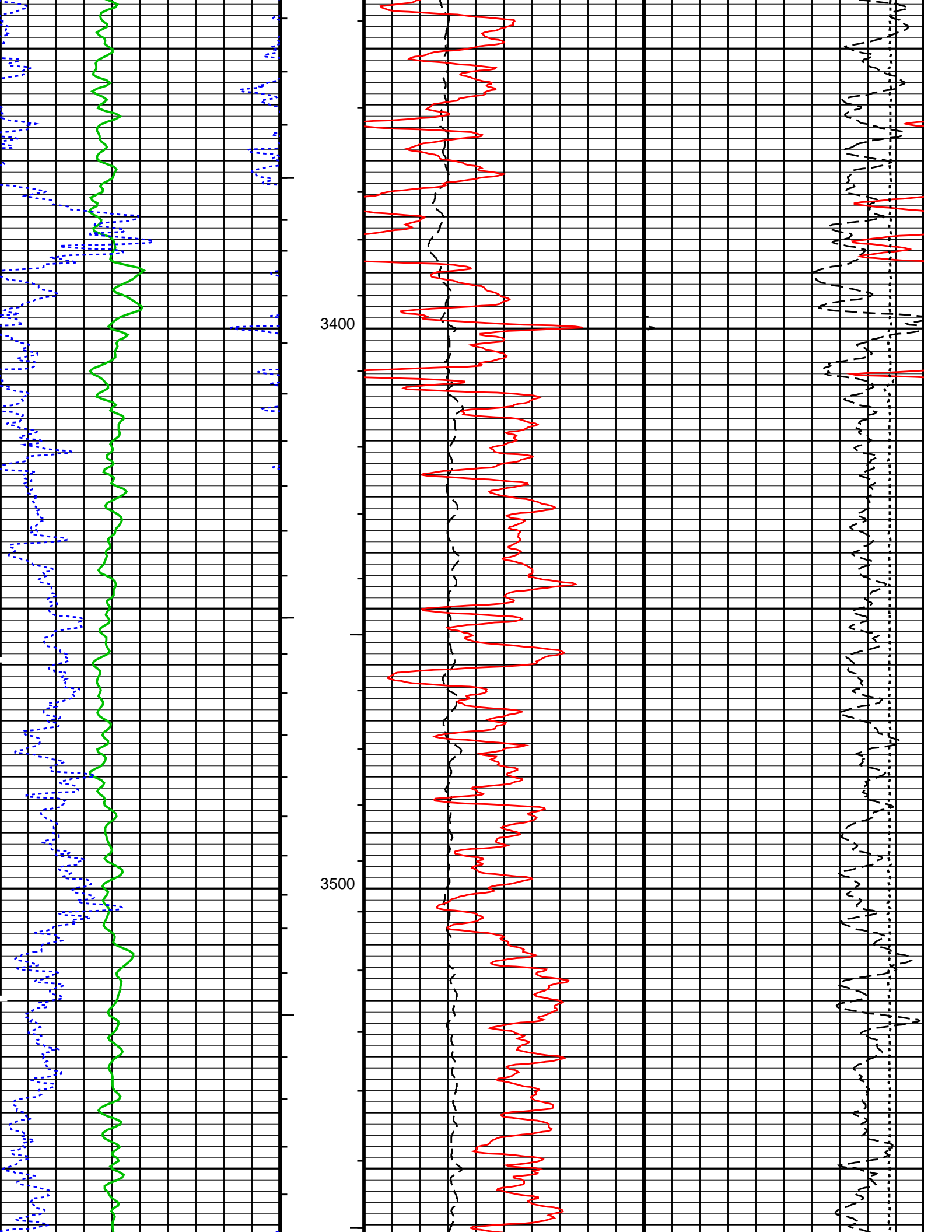


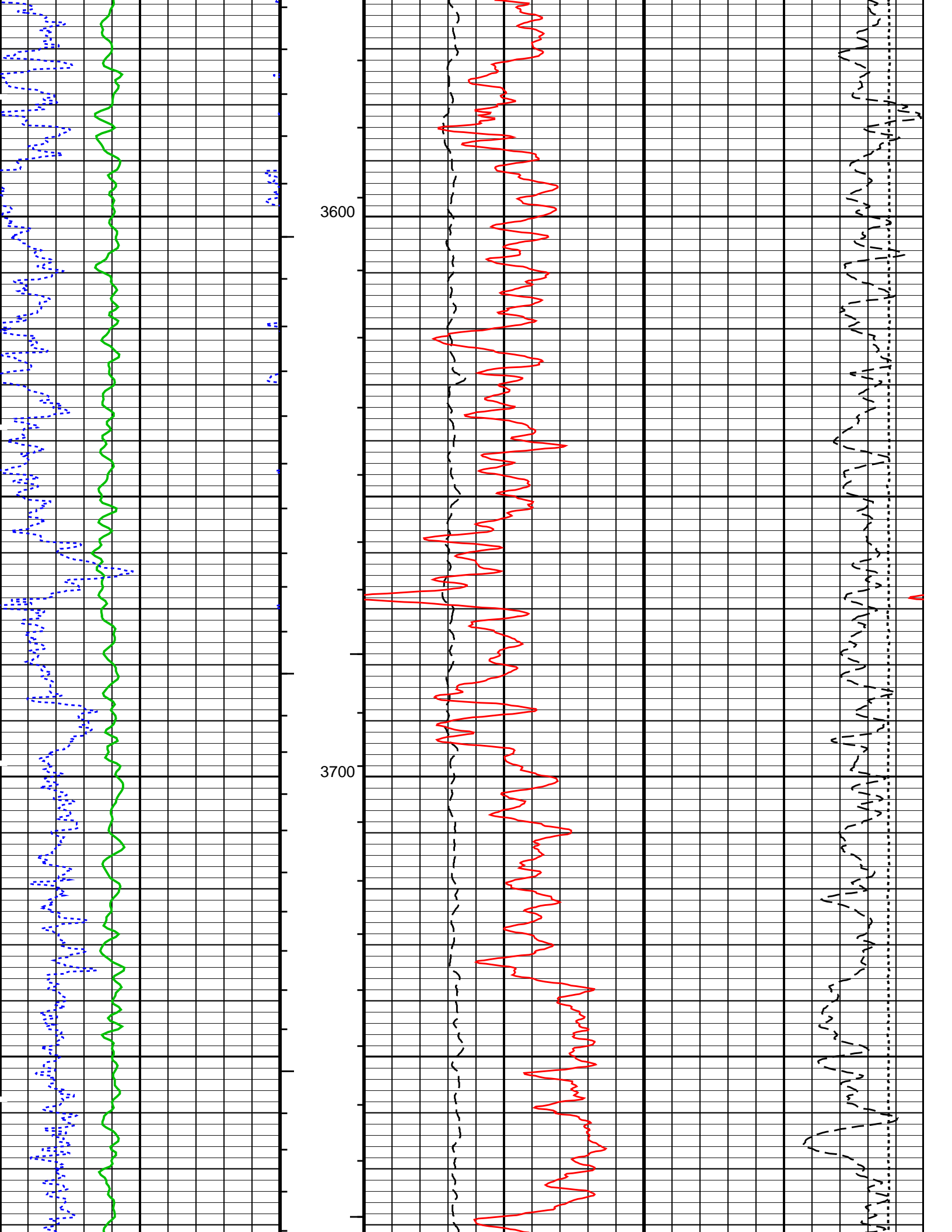


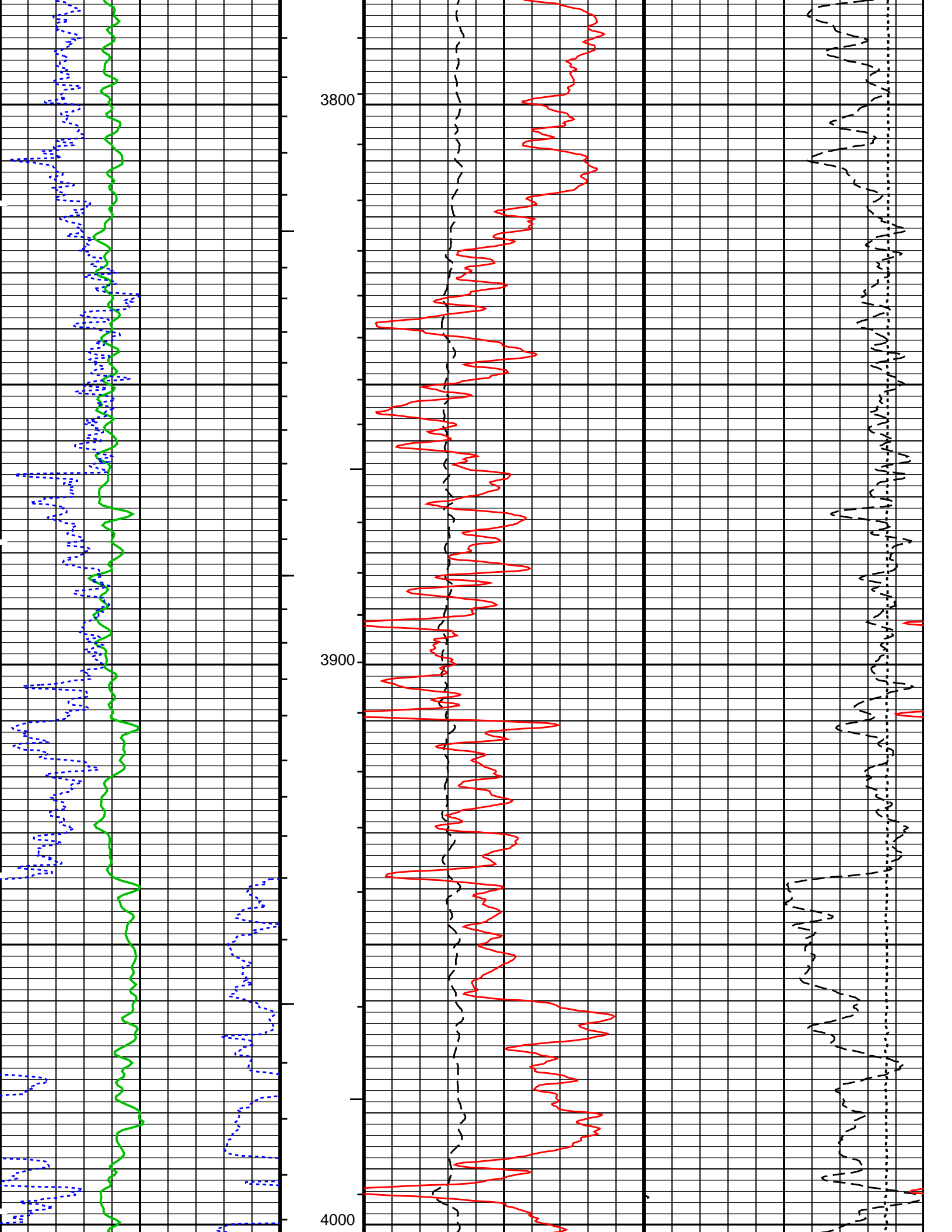


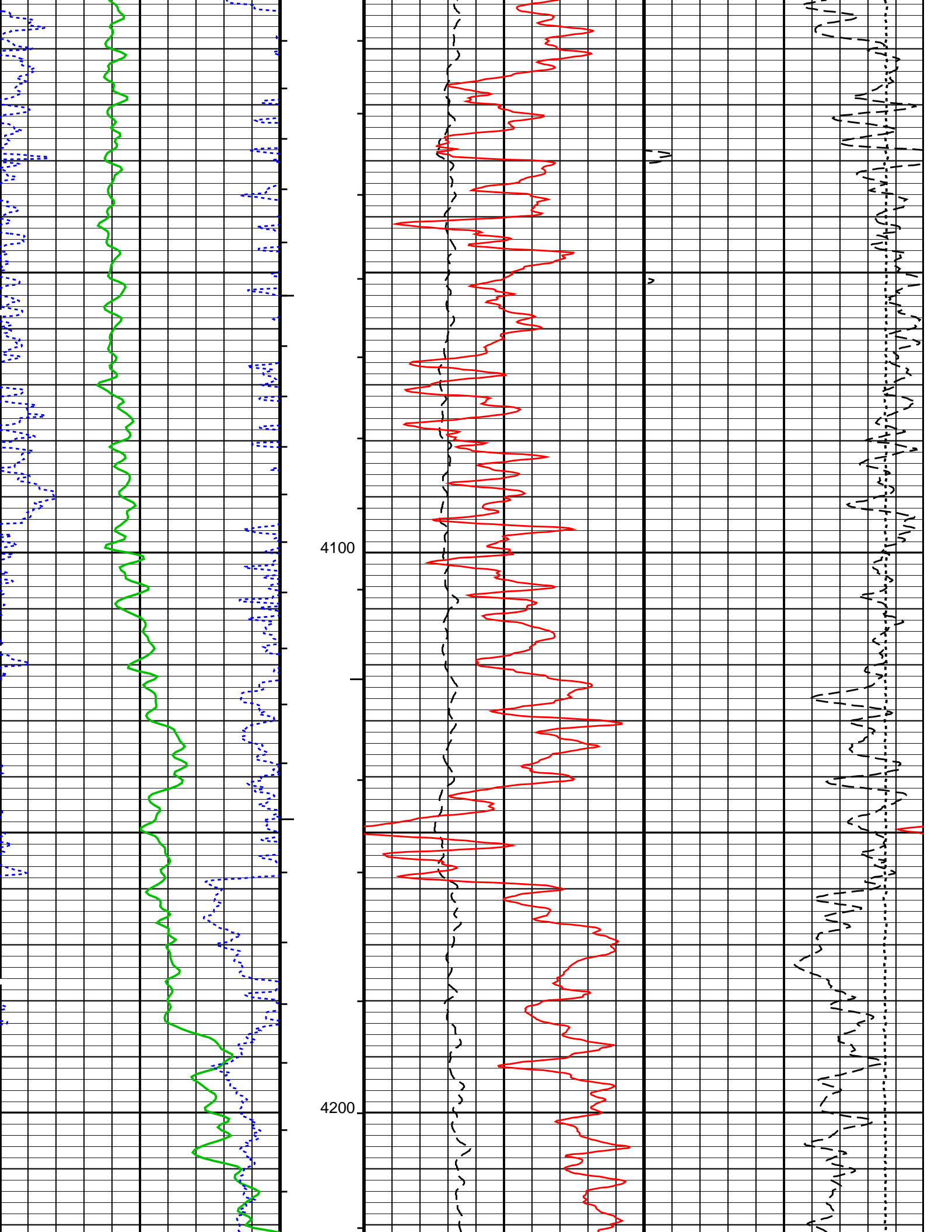


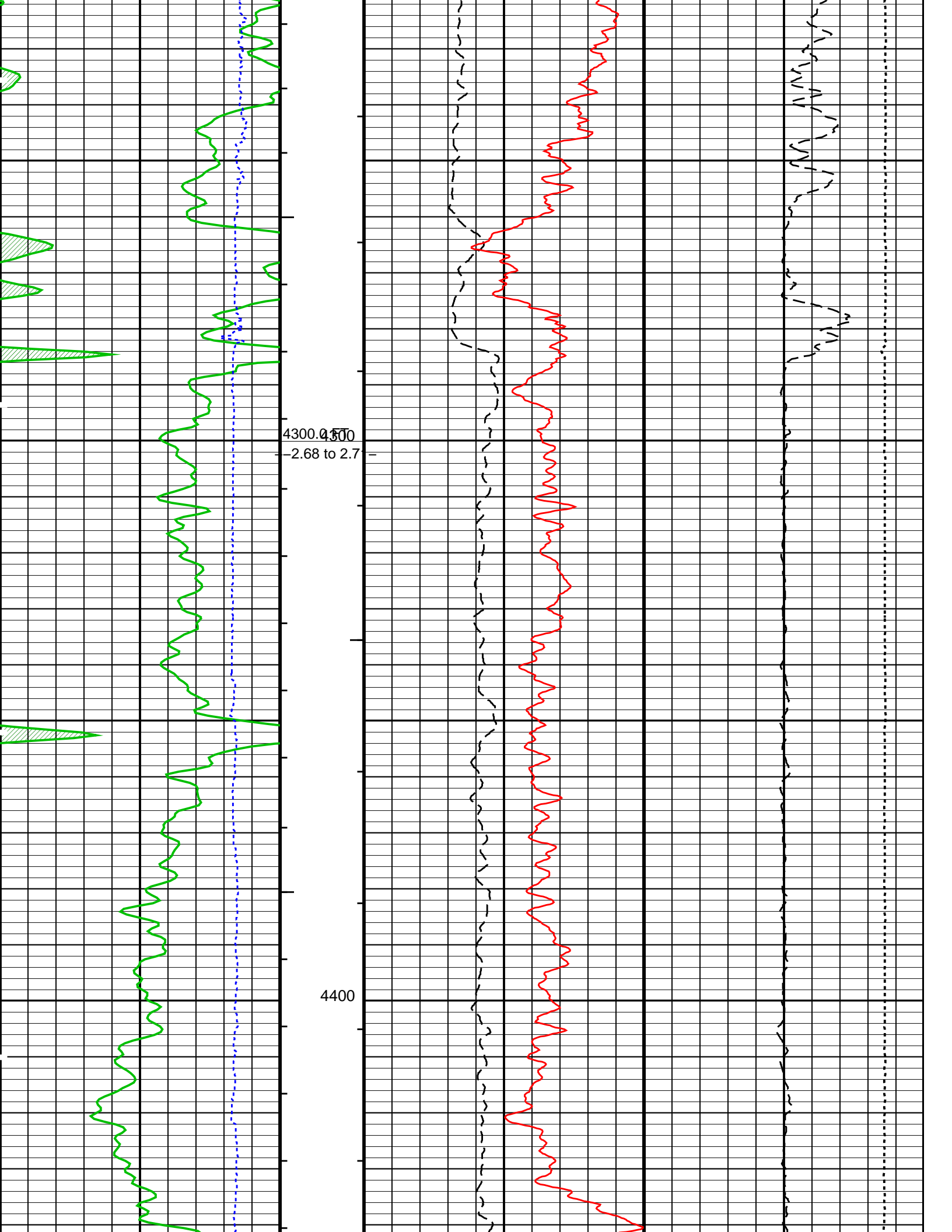


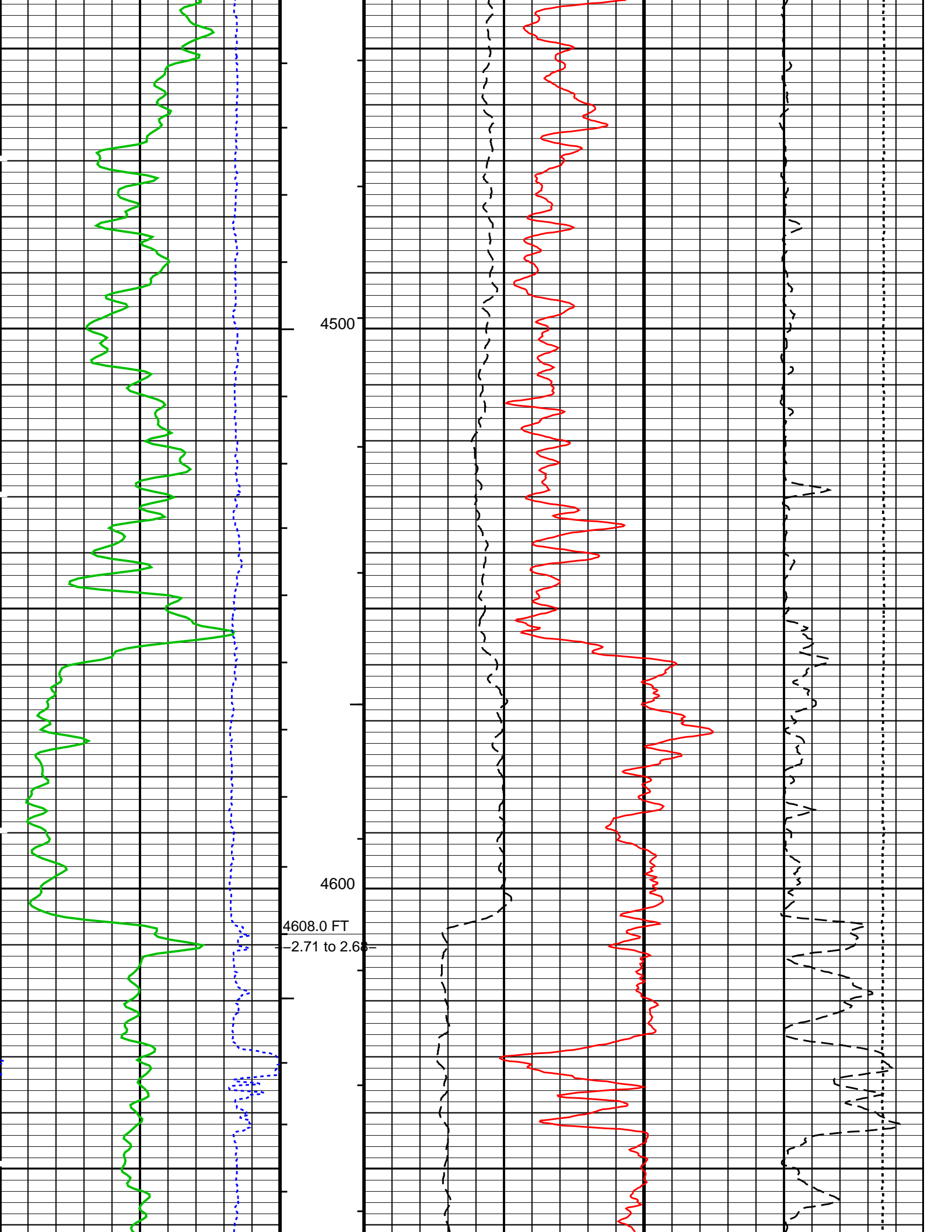


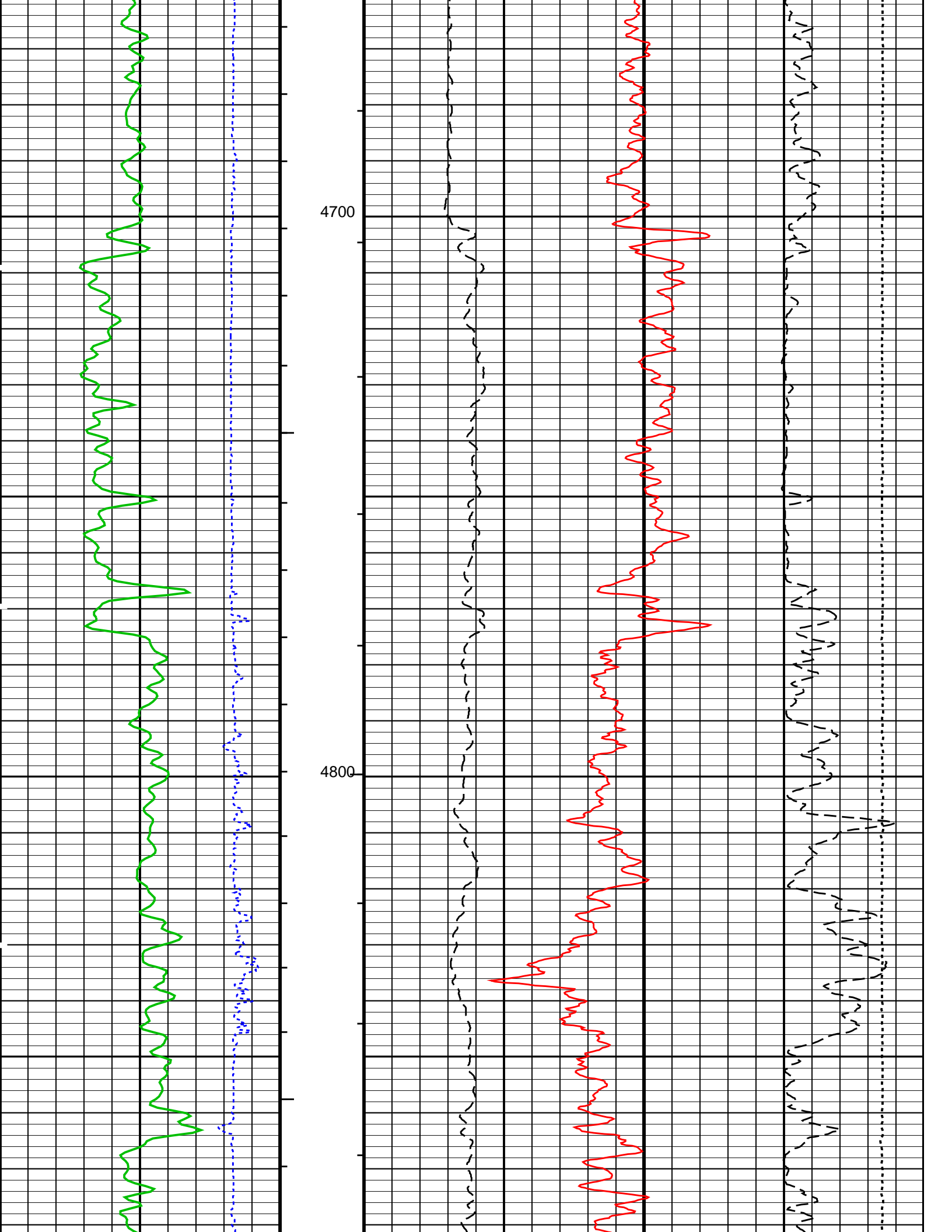


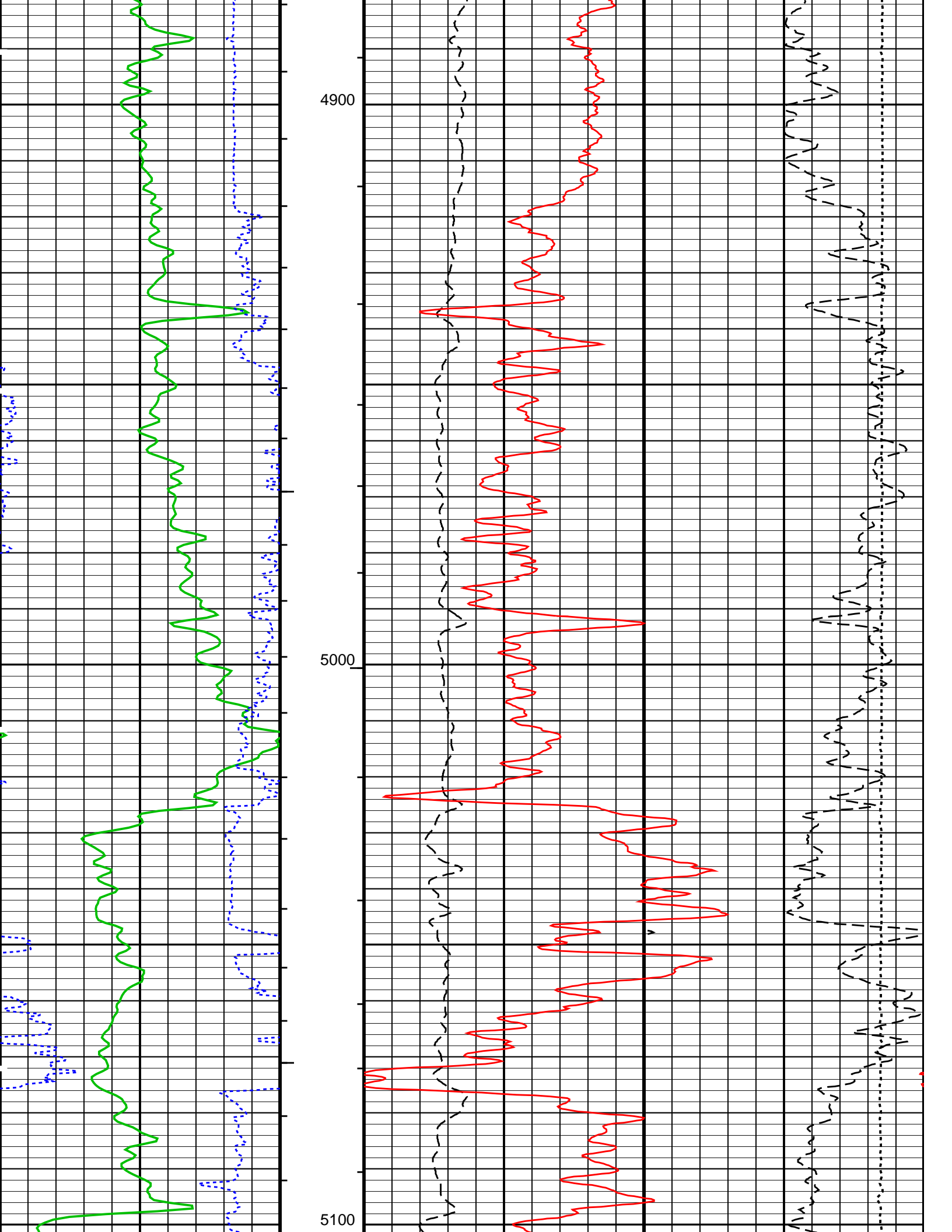




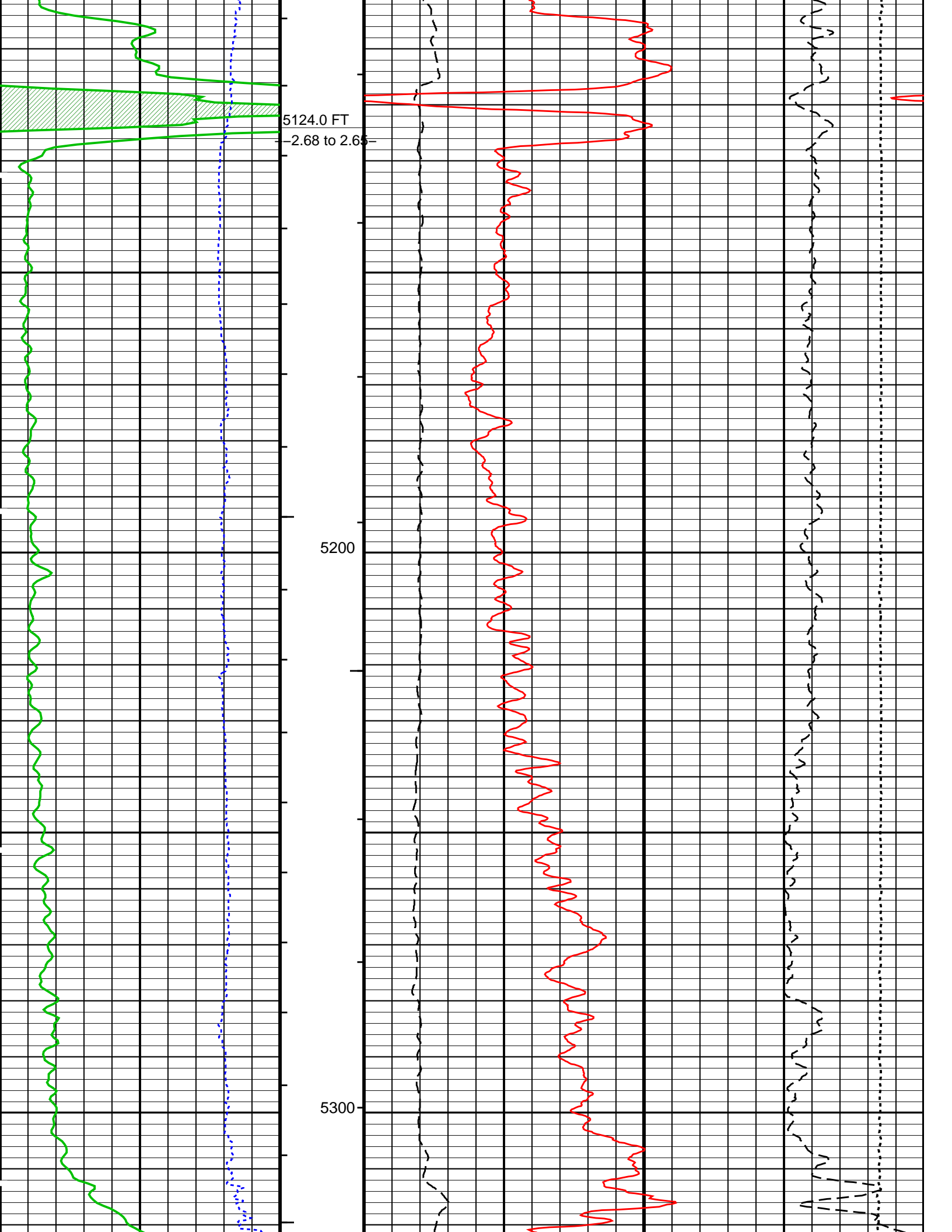


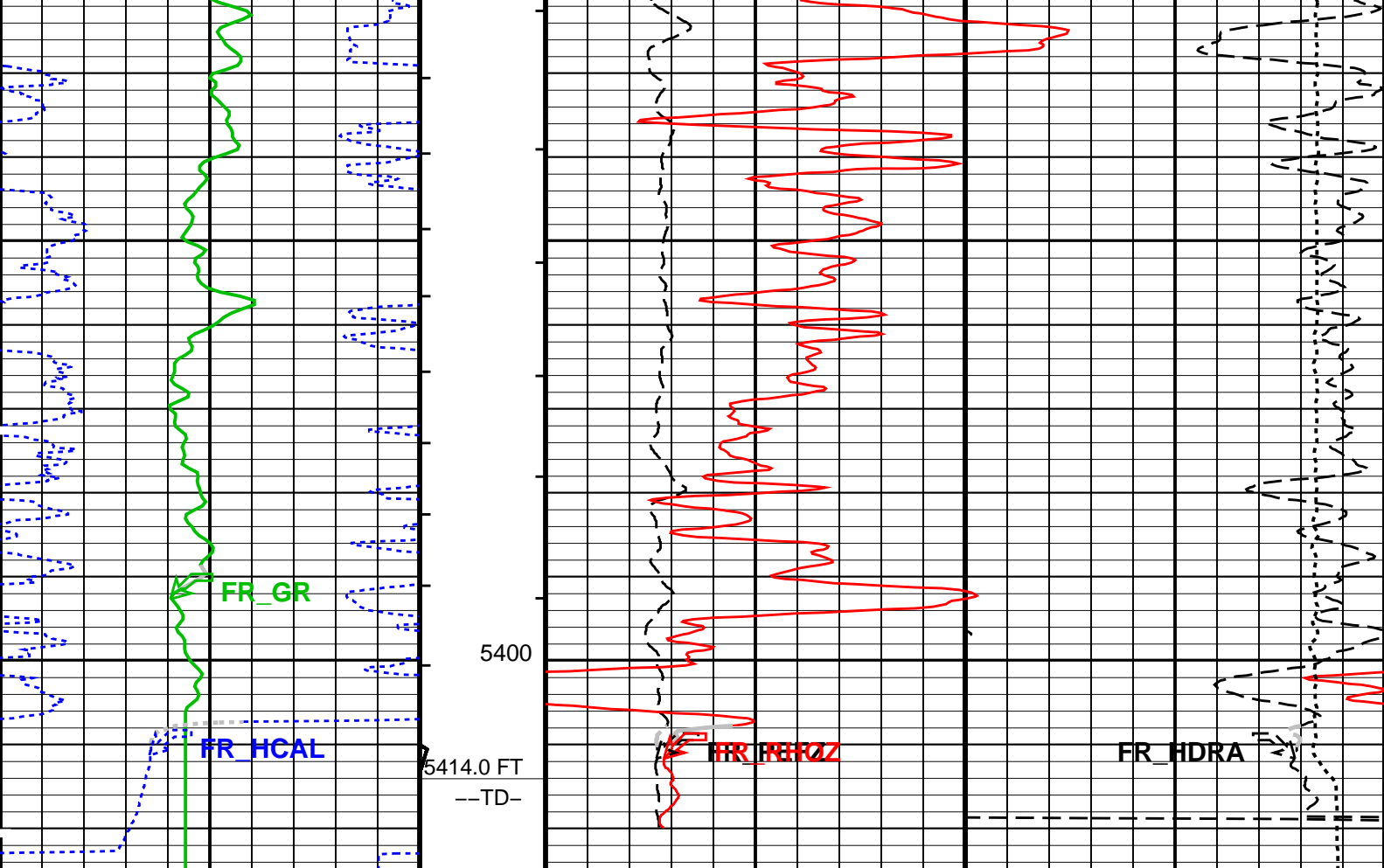












GR BACKUP	Stuck Stretch (STIT)	Std. Res. Formation Pe (PEFZ)	Density Correction (HDRA)
	(F) 50	(-----) 10	(G/C3) 0.25
HILT Caliper (HCAL)	Std. Res. Formation Density (RHOZ)		
(IN) 4 14	(G/C3) 2 3		
Gamma Ray (GR)	Tension (TENS)		
(GAPI) 0 200	(LBF) 10000 0		

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_TLD	HILT Nuclear Mud Base	WATER
DHC	Density Hole Correction	BS
GCLF	Germany Coal-like Formation 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 IN
HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	8.625 IN
HVCS	Integrated Hole Volume Caliper Selection	HCAL
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	2.5 FT
TDD	Total Depth - Driller	5433.00 FT
TDL	Total Depth - Logger	5414.00 FT
System and Miscellaneous		
BS	Bit Size	12.250 IN



DFD	Drilling Fluid Density	9.80	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
TD	Total Depth	5414	FT
Format: DENS	Vertical Scale: 5" per 100'	Graphics File Created: 12-Aug-2007 15:15	
OP System Version: 15C0-309			
MCM			
HILTB-CTS	SRPC-3357-Q2_2007		
Output DLIS Files			
DEFAULT	TLD_MCFL_CNL_033LUP	FN:32	PRODUCER 12-Aug-2007 15:15

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Stab Measurement Summary							
Before: 11-Aug-2007 11:25							
BS Window Ratio	0.7420	N/A	0.7404	N/A	N/A	N/A	CPS
BS Window Sum	11800	N/A	11790	N/A	N/A	N/A	
SS Window Ratio	0.4780	N/A	0.4776	N/A	N/A	N/A	
SS Window Sum	11230	N/A	11220	N/A	N/A	N/A	CPS
LS Window Ratio	0.2995	N/A	0.2933	N/A	N/A	N/A	CPS
LS Window Sum	1141	N/A	1136	N/A	N/A	N/A	
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Photo-multiplier High Voltages Calibrations							
Before: 11-Aug-2007 11:25							
BS PM High Voltage (Command)	1432	N/A	1451	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1535	N/A	1565	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1341	N/A	1369	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Crystal Quality Resolutions Calibration							
Before: 11-Aug-2007 11:25							
BS Crystal Resolution	10.69	N/A	10.71	N/A	N/A	N/A	%
SS Crystal Resolution	9.510	N/A	9.514	N/A	N/A	N/A	%
LS Crystal Resolution	8.974	N/A	8.890	N/A	N/A	N/A	%
High resolution Integrated Logging Tool-CTS Wellsite Calibration – MCFL Calibration							
Before: 11-Aug-2007 11:21							
Raw B0 Resistivity	3875	N/A	3875	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3813	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3814	N/A	N/A	N/A	OHMM
High resolution Integrated Logging Tool-CTS Wellsite Calibration – HILT Caliper Calibration							
Before: 11-Aug-2007 11:08							
HILT Caliper Zero Measurement	8.000	N/A	8.477	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.67	N/A	N/A	N/A	IN
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Detector Calibration							
Before: 11-Aug-2007 11:08							
Gamma Ray Background	30.00	N/A	81.73	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	171.3	N/A	171.3	N/A	N/A	15.57	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Zero Measurement							
Master: 8-Aug-2007 14:31 Before: 11-Aug-2007 11:09							
CNTC Background	26.85	26.85	27.09	N/A	N/A	4.028	CPS
CFTC Background	28.38	28.38	28.37	N/A	N/A	4.257	CPS
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Ratio Measurement							
Master: 8-Aug-2007 14:31							
Thermal Near Corr. (Tank)	5800	5295	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2246	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.358	N/A	N/A	N/A	N/A	
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Accelerometer Calibration							
Before: 12-Aug-2007 14:25							
Z-Axis Acceleration	32.19	N/A	32.16	N/A	N/A	N/A	F/S2
High resolution Integrated Logging Tool-CTS Master Calibration – Inversion results							
Master: 11-Aug-2007 10:51							
Rho Aluminum	2.596	2.601	--	--	--	--	G/C3
Rho Magnesium	1.686	1.686	--	--	--	--	G/C3




Before: 11-Aug-2007 11:25

MCFL Calibration														
Phase	Raw B0 Resistivity OHMM			Value	Phase	Raw B1 Resistivity OHMM			Value	Phase	Raw B2 Resistivity OHMM			Value
Before				3875	Before				3813	Before				3814
	3565 (Minimum)	3875 (Nominal)	4185 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)			3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	





Before: 11–Aug–2007 11:21

High resolution Integrated Logging Tool–CTS Wellsite Calibration							
HILT Caliper Calibration							
Phase	HILT Caliper Zero Measurement IN		Value	Phase	HILT Caliper Plus Measurement IN		Value
Before			8.477	Before			12.67
	6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)
Before: 11–Aug–2007 11:08							

Before: 11–Aug–2007 11:08




High resolution Integrated Logging Tool–CTS Wellsite Calibration														
Detector Calibration														
Phase	Gamma Ray Background GAPI			Value	Phase	Gamma Ray (Jig – Bkg) GAPI			Value	Phase	Gamma Ray (Calibrated) GAPI			Value
Before				81.73	Before				171.3	Before				165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)			155.7 (Minimum)	171.3 (Nominal)	186.9 (Maximum)			150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)	

Before: 11–Aug–2007 11:08


High resolution Integrated Logging Tool–CTS Wellsite Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				26.85	Master				28.38
Before				27.09	Before				28.37
5.000 (Minimum)      26.85 (Nominal)      40.00 (Maximum)					5.000 (Minimum)      28.38 (Nominal)      40.00 (Maximum)				
Master: 8–Aug–2007 14:31					Before: 11–Aug–2007 11:09				

Master: 8–Aug–2007 14:31





Before: 11–Aug–2007 11:09

High resolution Integrated Logging Tool–CTS Wellsite Calibration														
Ratio Measurement														
Phase	Thermal Near Corr. (Tank) CPS			Value	Phase	Thermal Far Corr. (Tank) CPS			Value	Phase	CNTC/CFTC (Tank)			Value
Master				5295	Master				2246	Master				2.358
	4700 (Minimum)	5800 (Nominal)	6900 (Maximum)			1900 (Minimum)	2400 (Nominal)	2900 (Maximum)			2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)	

Master: 8–Aug–2007 14:31







High resolution Integrated Logging Tool–CTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z–Axis Acceleration F/S2		Value
Before			32.16
	31.53 (Minimum)	32.19 (Nominal)	32.84 (Maximum)



Before: 12–Aug–2007 14:25




High resolution Integrated Logging Tool–CTS Master Calibration									
Inversion results									
Phase	Rho Aluminum G/C3			Value	Phase	Rho Magnesium G/C3			Value
Master				2.601	Master				1.686
	2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)			1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)	
Phase	Pe Aluminum			Value	Phase	Pe Magnesium			Value
Master				2.555	Master				2.635
	2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)			2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)	

Master: 11–Aug–2007 10:51

High resolution Integrated Logging Tool–CTS Master Calibration								
Deviation Summary								
Phase	BS Average Deviation %	Value	Phase	SS Average Deviation %	Value	Phase	LS Average Deviation %	Value

Master		0.2583	Master		0.2496	Master		0.6502			
-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)			-1.000 (Minimum) 0 (Nominal) 1.000 (Maximum)			-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)					
Phase	BS Max Deviation %		Value	Phase	SS Max Deviation %		Value	Phase	LS Max Deviation %		Value
Master		0.7290	Master		0.9568	Master		1.380			
-1.600 (Minimum) 0 (Nominal) 1.600 (Maximum)			-2.500 (Minimum) 0 (Nominal) 2.500 (Maximum)			-3.500 (Minimum) 0 (Nominal) 3.500 (Maximum)					
Master: 11-Aug-2007 10:51											

High resolution Integrated Logging Tool-CTS Master Calibration									
Zero Measurement									
Phase	CNTC Background CPS			Value	Phase	CFTC Background CPS			Value
Master				26.85	Master				28.38
5.000 (Minimum) 26.85 (Nominal) 40.00 (Maximum)				5.000 (Minimum) 28.38 (Nominal) 40.00 (Maximum)					
Master: 8-Aug-2007 14:31									

High resolution Integrated Logging Tool—CTS Master Calibration											
Tank Measurement											
Phase	Thermal Near Corr. (Tank) CPS		Value	Phase	Thermal Far Corr. (Tank) CPS		Value	Phase	CNTC/CFTC (Tank)		Value
Master			5295	Master			2246	Master			2.358
4700 (Minimum) 5800 (Nominal) 6900 (Maximum)				1900 (Minimum) 2400 (Nominal) 2900 (Maximum)				2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)			
Master: 8–Aug–2007 14:31											

Company: **Windy Hill Gas Storage, LLC**

**Schlumberger**

Well: **Windy Hill 3-17D**

Field: **Wildcat**

County: **Morgan**

State: **Colorado**

Platform Express  
Compensated Neutron  
Litho-Density