

OTHER SERVICES1 OS1: GPIT OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is first run in hole	
Tool run as per tool sketch	
Matrix changes noted on porosity log	

Rig: Cade 22					
Crew: Matt Baldwin, Ian Derry & Josh Strand					
RUN 1 SERVICE ORDER #: 11989911 PROGRAM VERSION: 15C0-309 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP
EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT WITM (DTS)-A GSR-U/Y NCT-B CNB-AB NCS-VB					
DOWNHOLE EQUIPMENT					
LEH-QT LEH-QT		51.6			
DTC-H ECH-KC DTCH0-A DTCH1-A	CTEM TelStatus ToolStatu	47.7 45.6	48.6		
AH-NM AH-NM		45.6			
GPIT-C GPIC-C GPIH-B		41.6			
HILTB-FTB HGNSD-B HMCA HGNH NLS-KL NSR-F 2539 HACCZ HCNT HGR HRCC-B HRMS-B HRGD-B GLS-VJ 5094 MCFL Device HILT Nucl. LS 42767 HILT Nucl. SS 42767 HILT Nucl. BS 42767 NPV-N	HGNS HTEM HMCA HGNS Gamm HGNS Neut HGNS Neut HGNS sens HRCC cart	37.6 36.9 31.1 30.6 28.2 24.2	37.6		
		18.8			

HAIT-H
AHIS-BA
AHRM-A

16.0

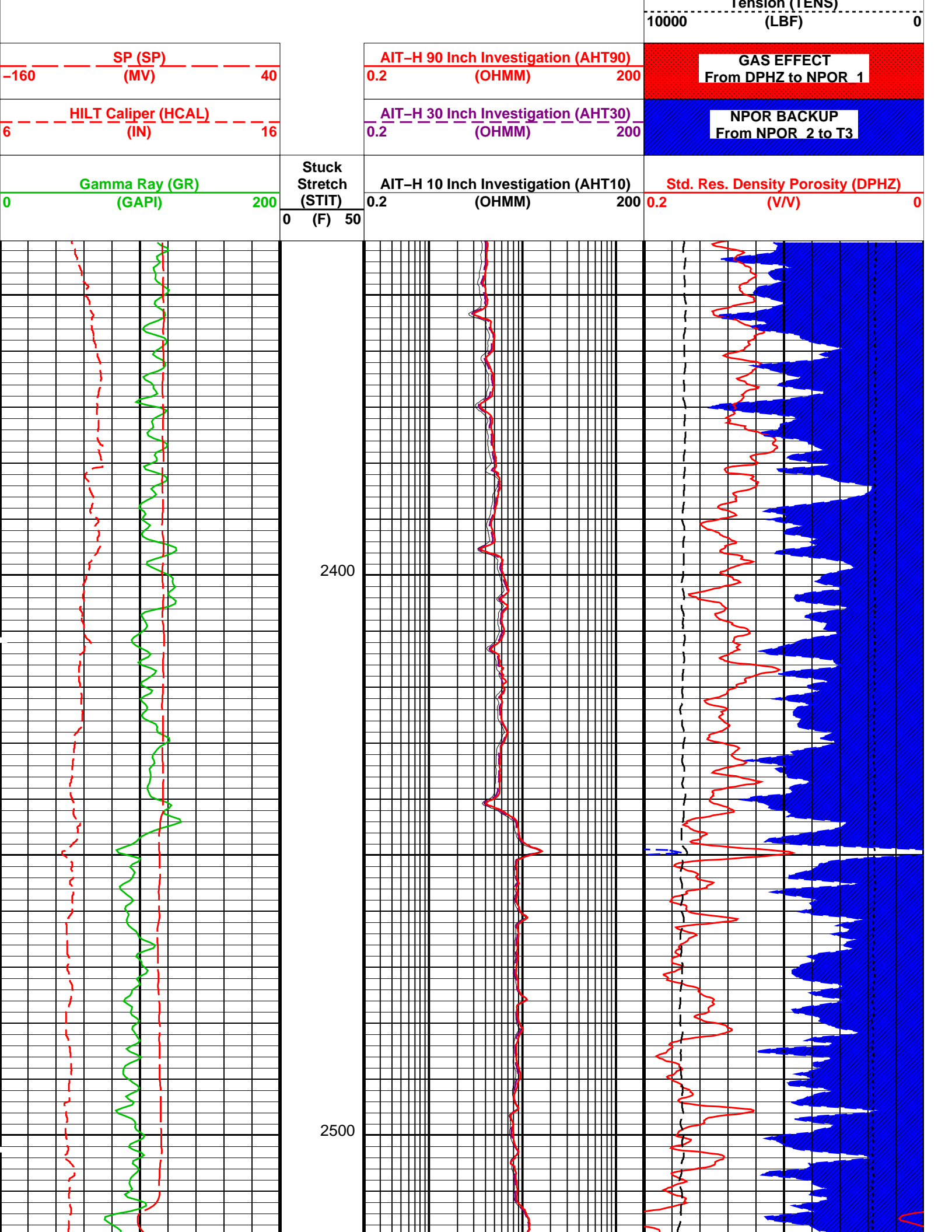
Induction
Temperatu
Power Sup

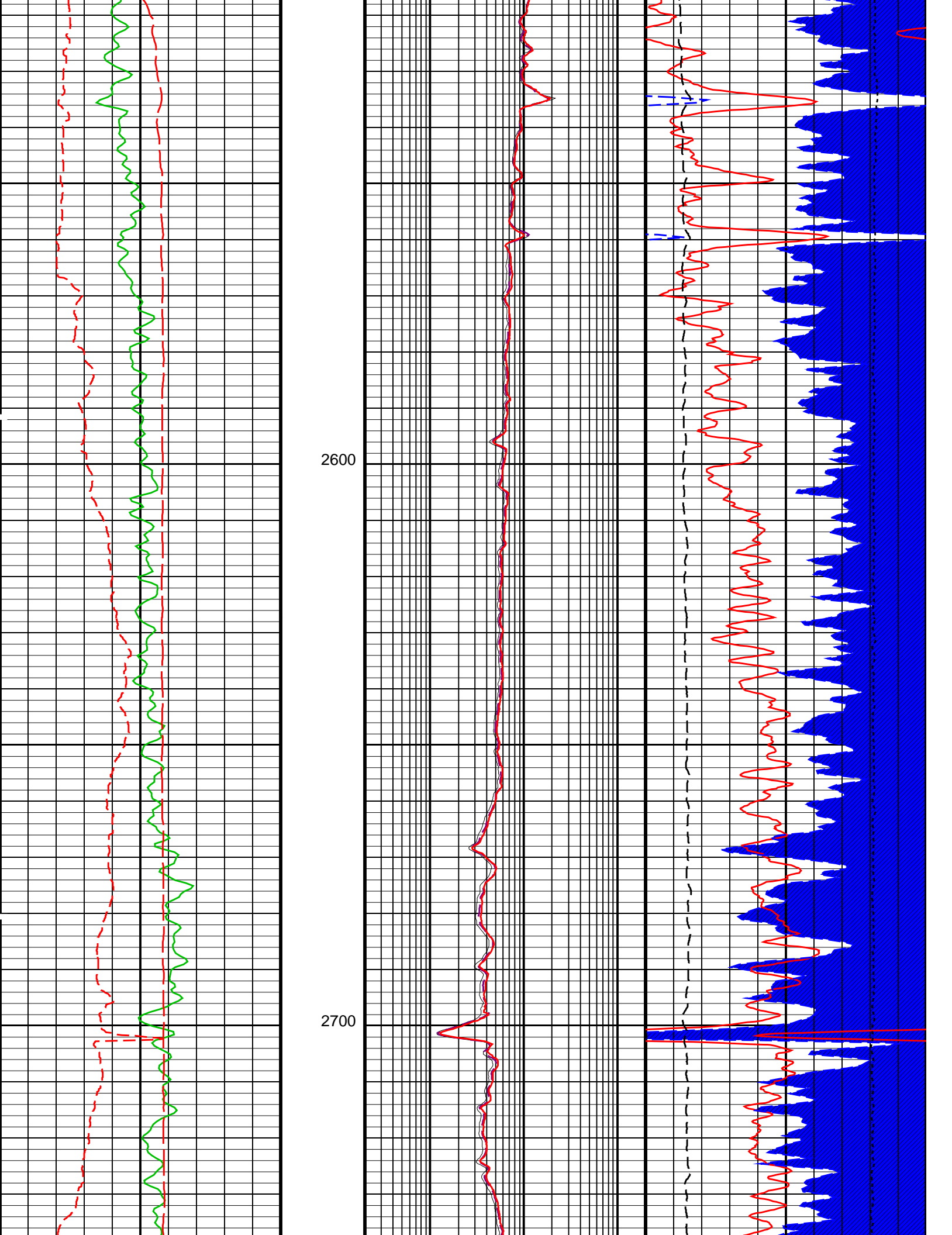
SP SENSOR
GPIT HV DF
HTEN HMAS
Accelerom
Mud Resis
Tension.

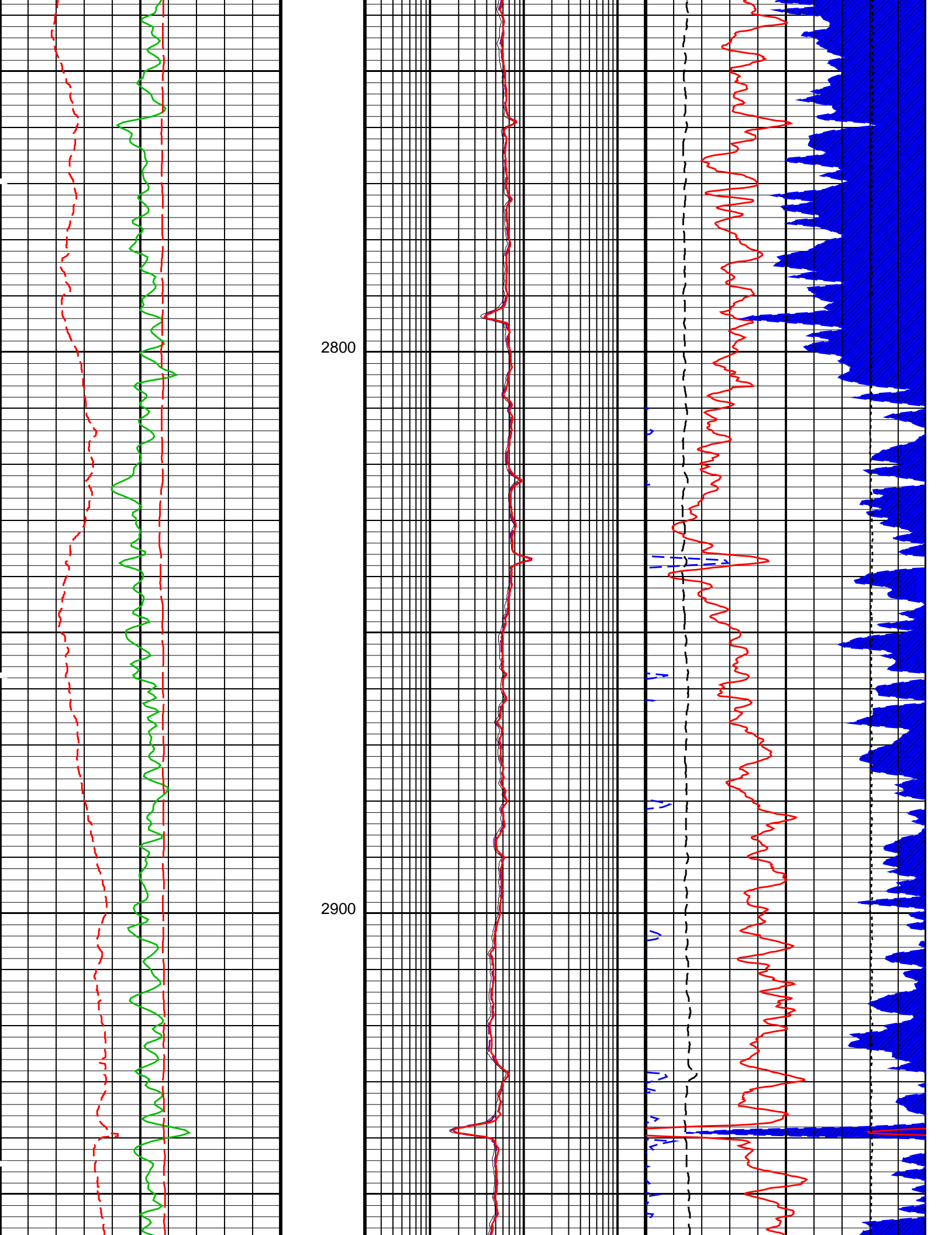
TOOL ZERO

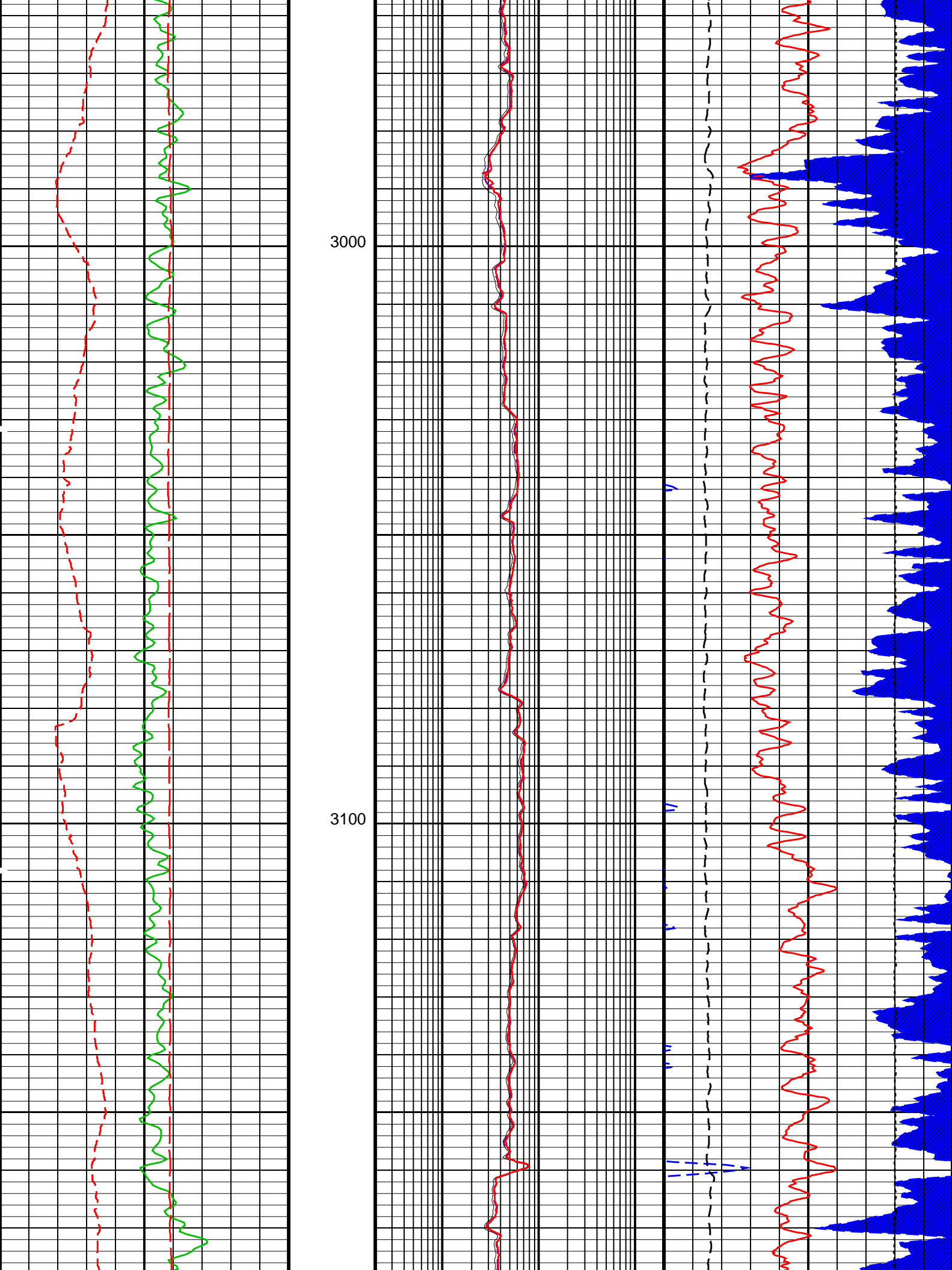
MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

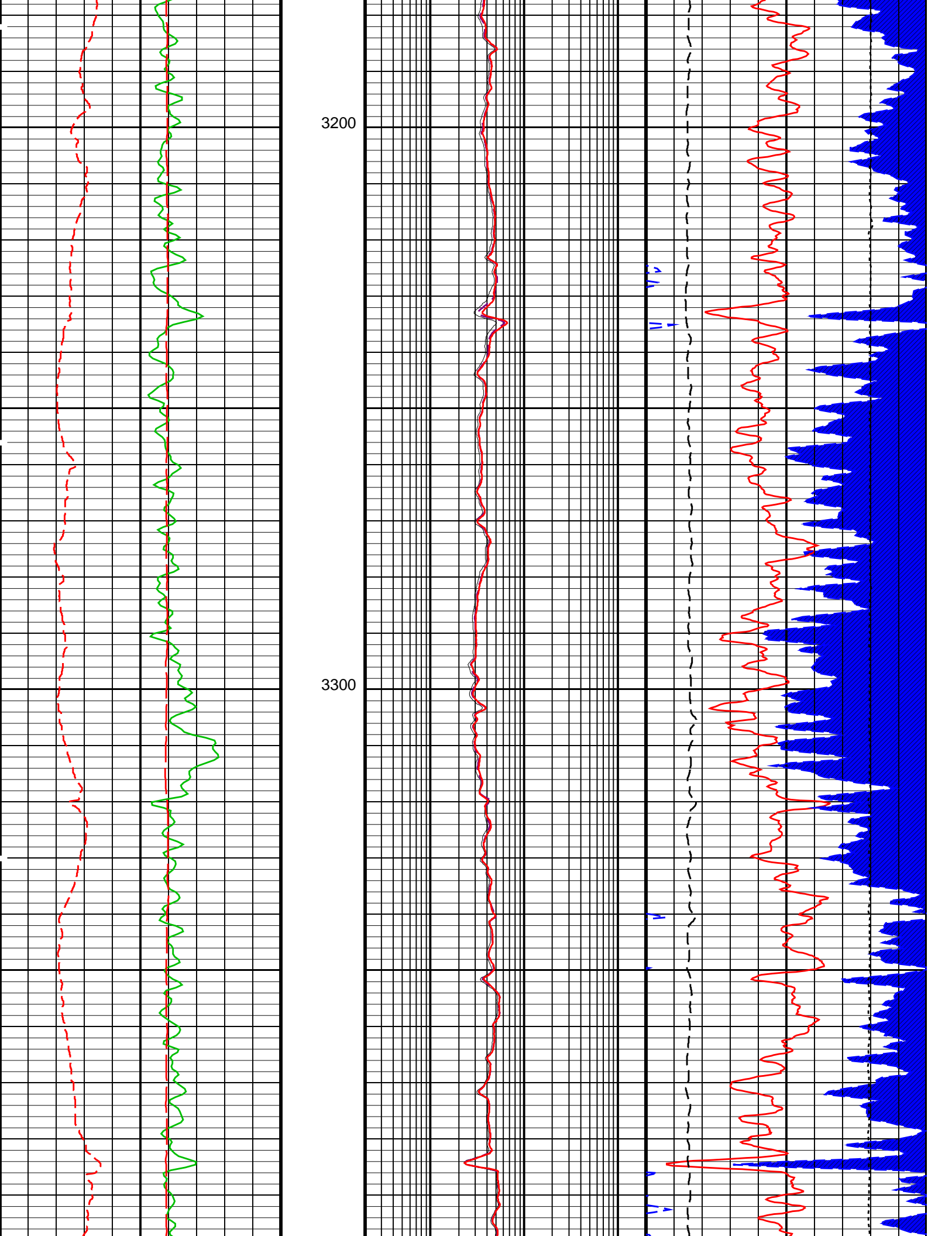
Production String	(in) (ft)			Well Schematic	(ft) (in)			Casing String
	OD	ID	MD		MD	OD	ID	
					0.0 848.0 848.0	8.625 8.625 7.875		Casing String, 24.0 lbm/ft Casing Shoe Borehole Segment

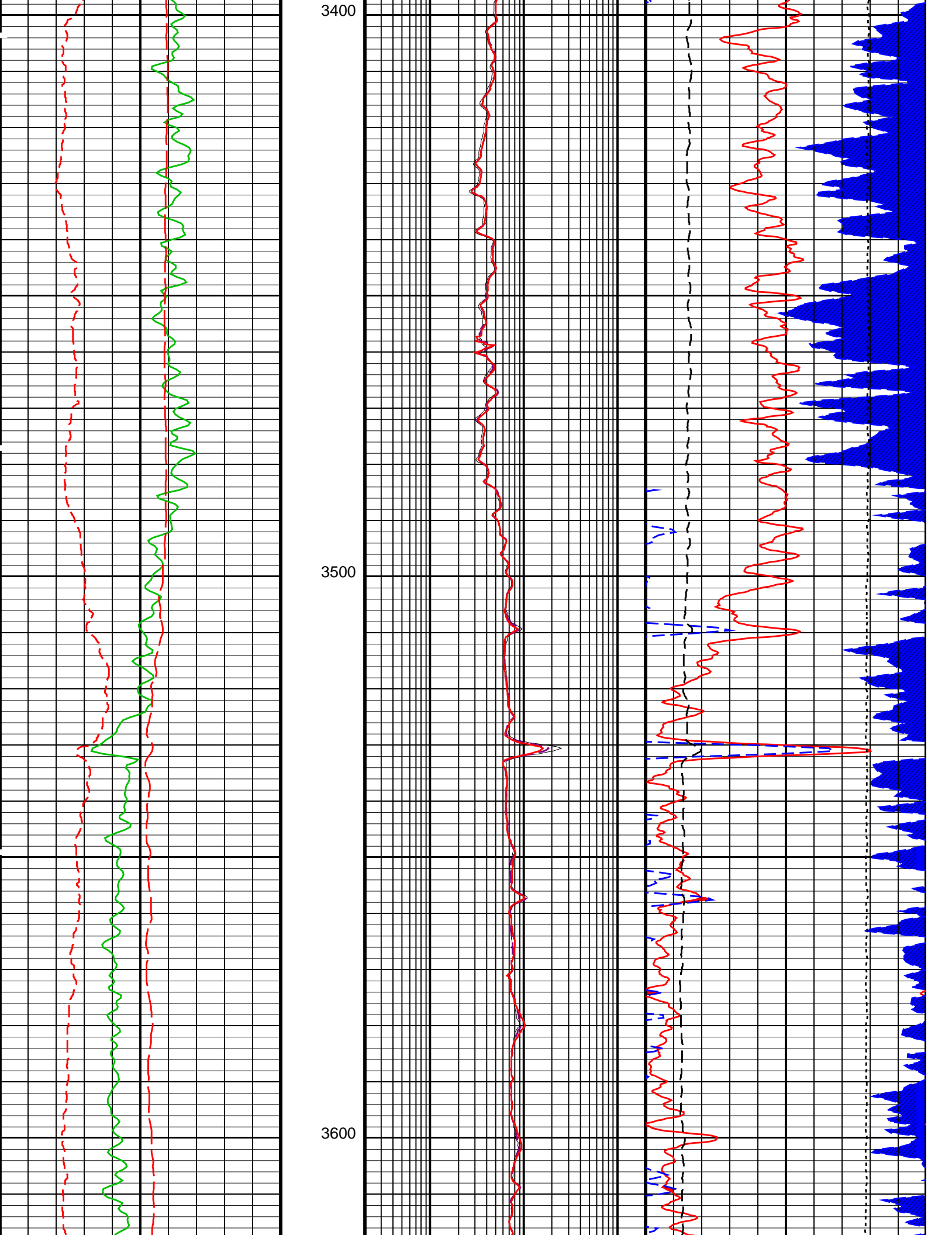


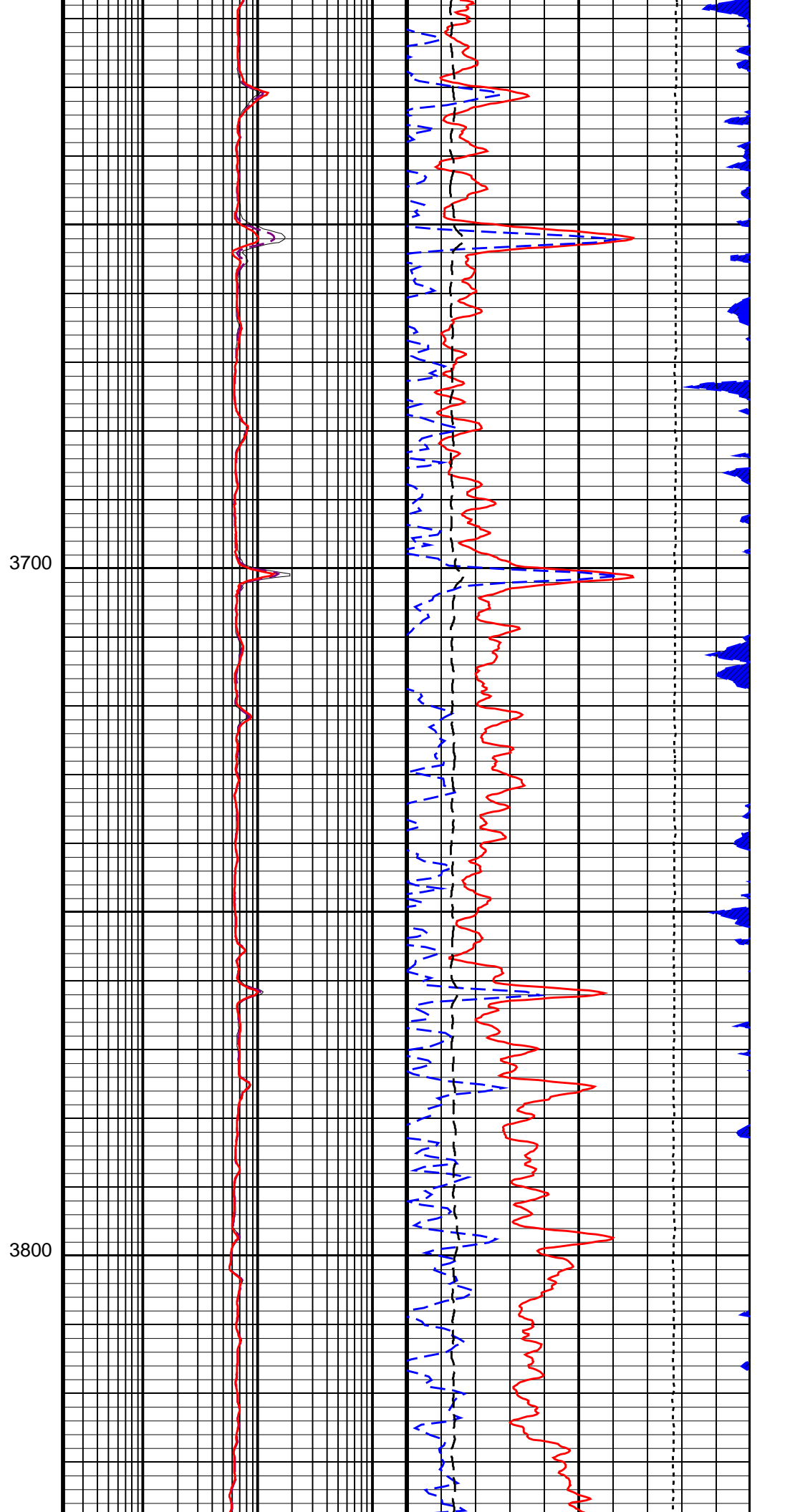
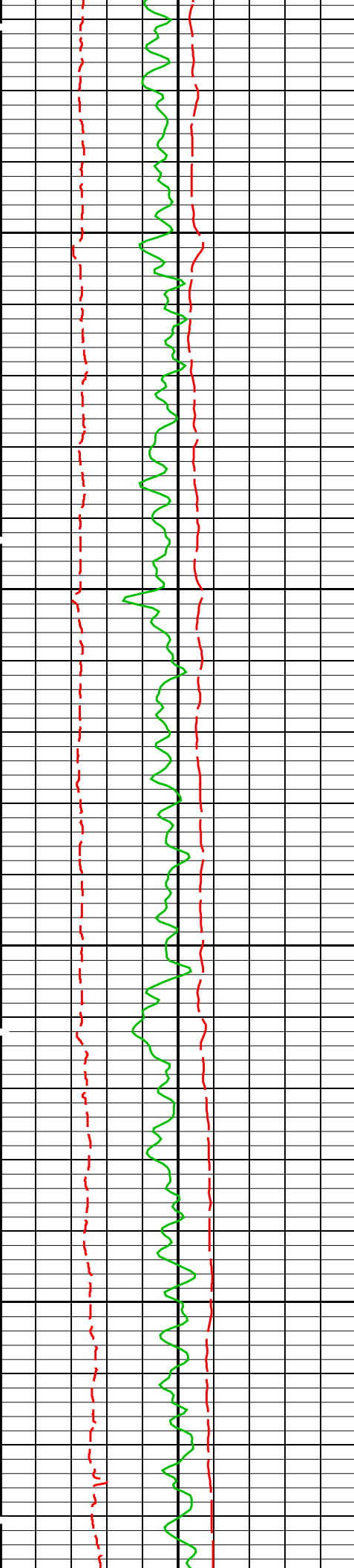


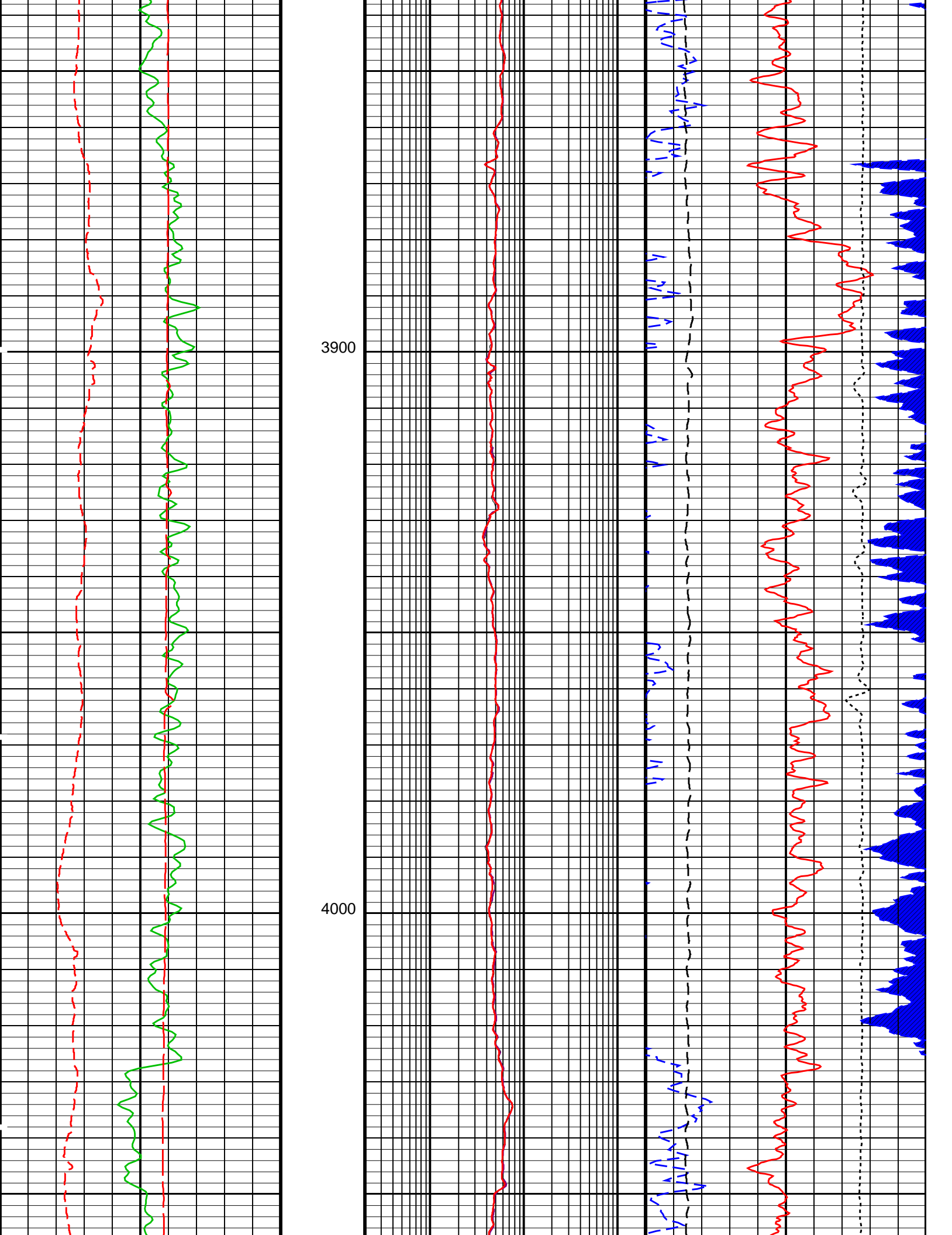


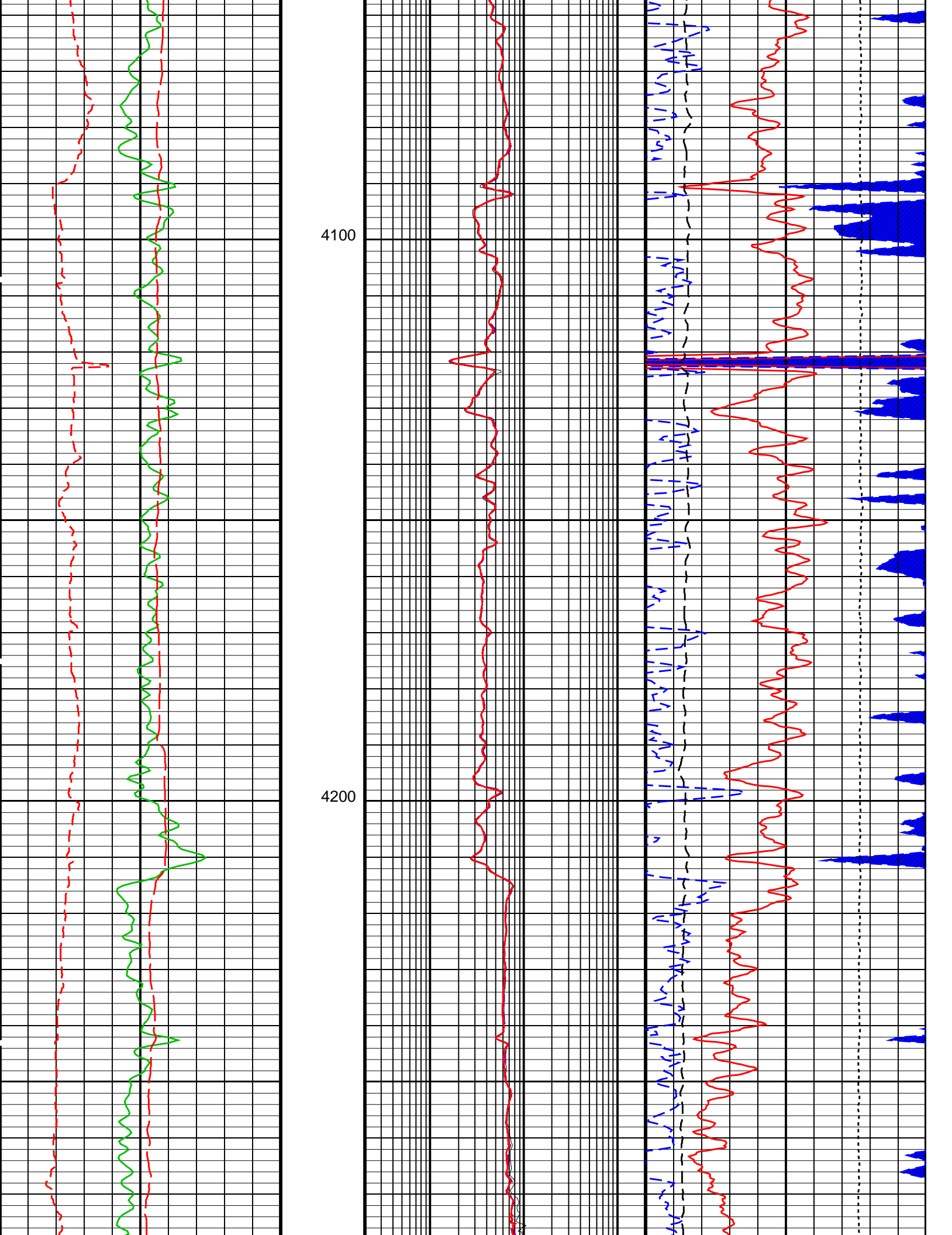


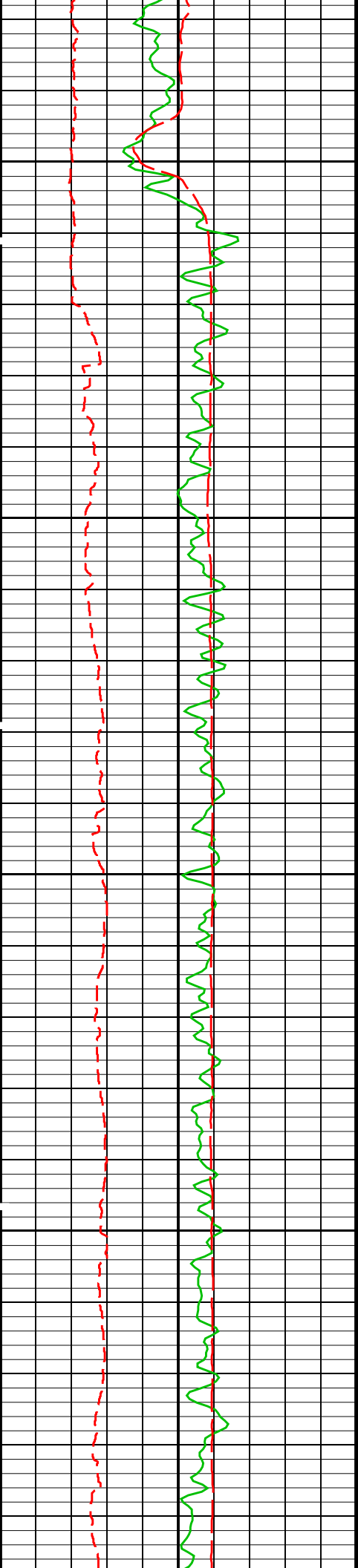






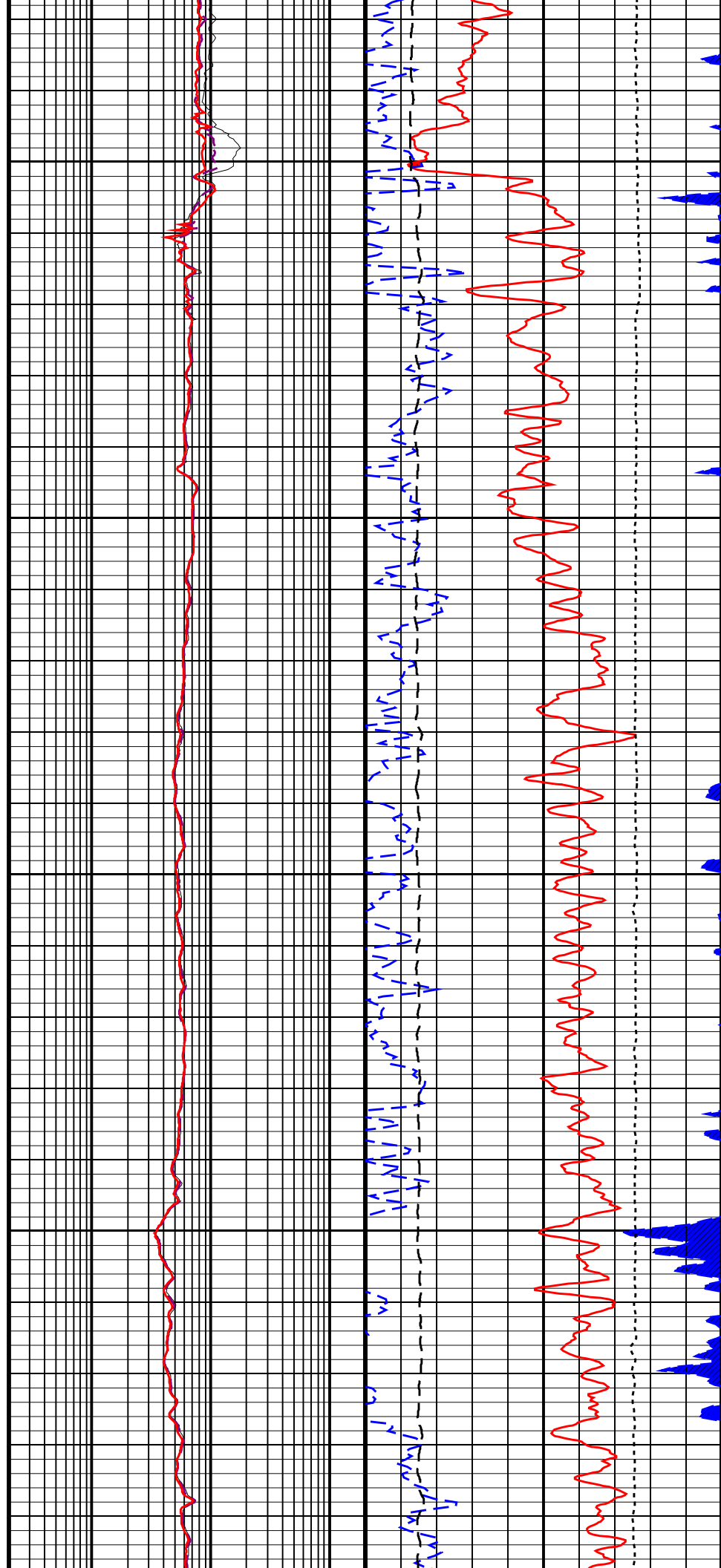


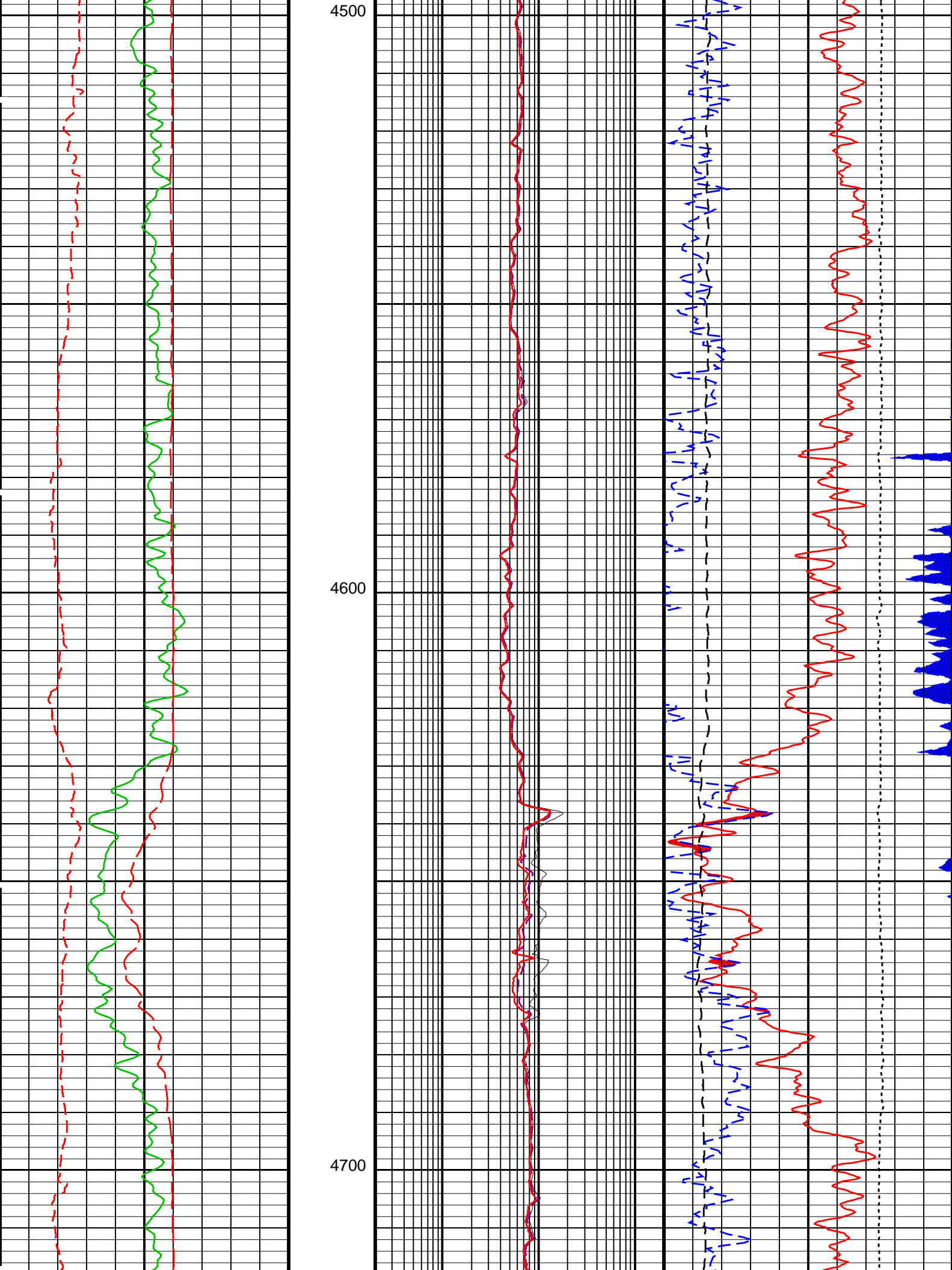


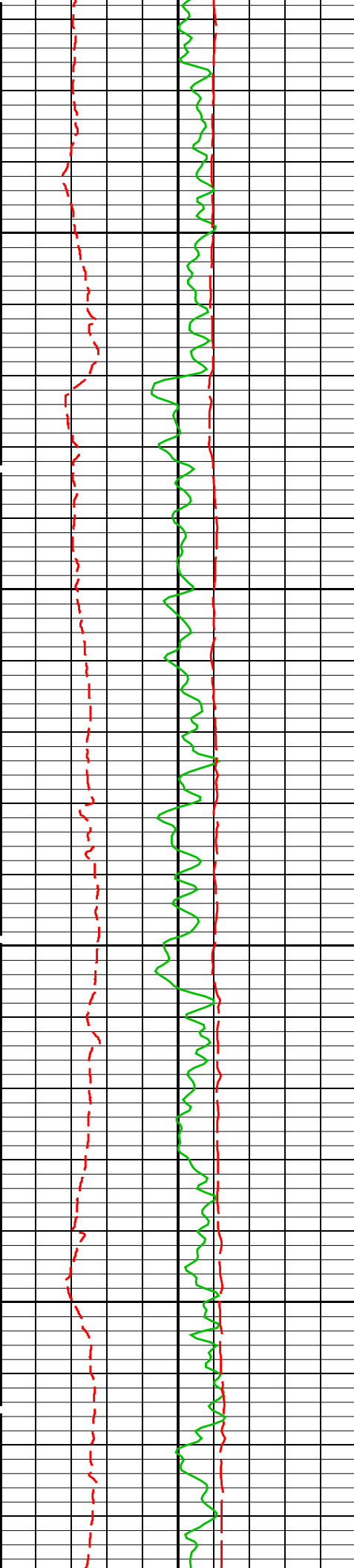


4300

4400

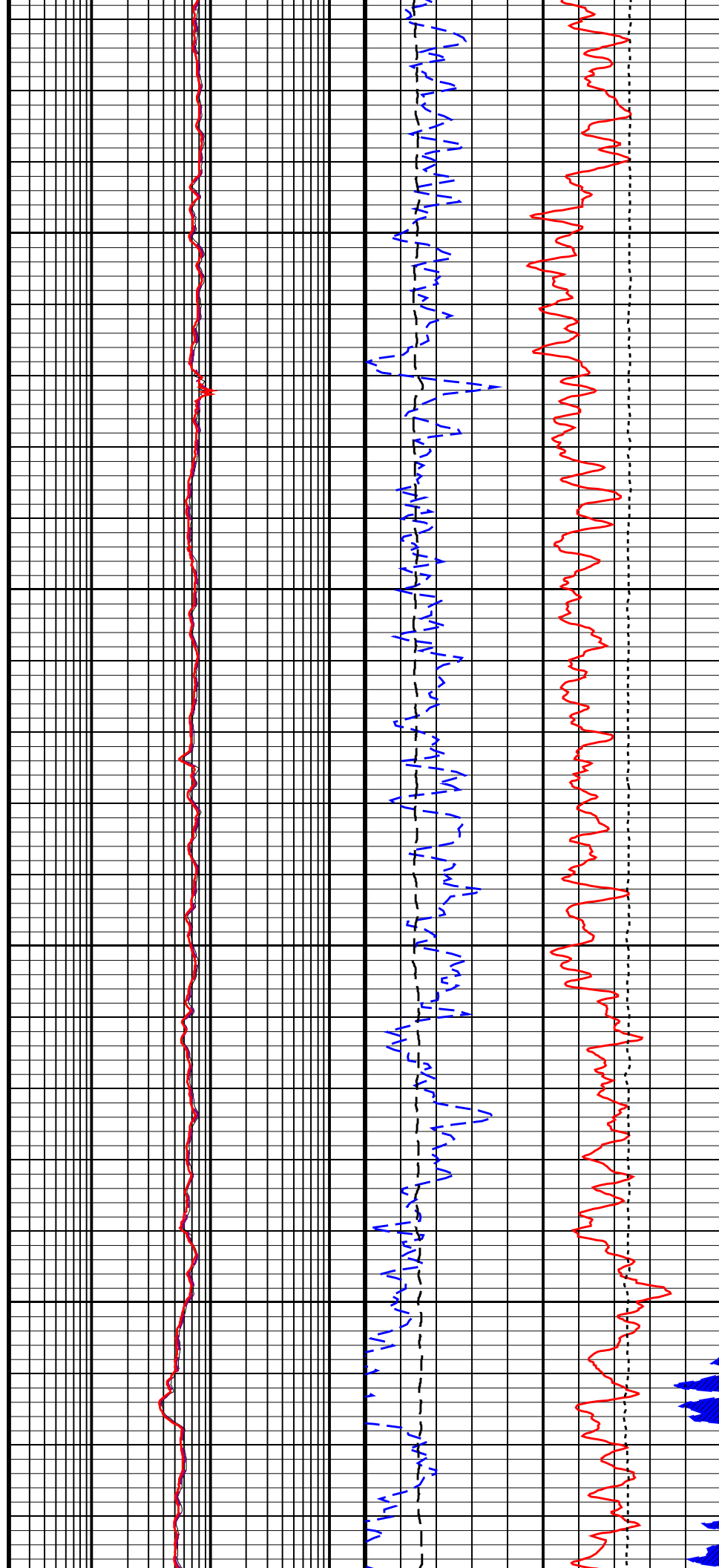


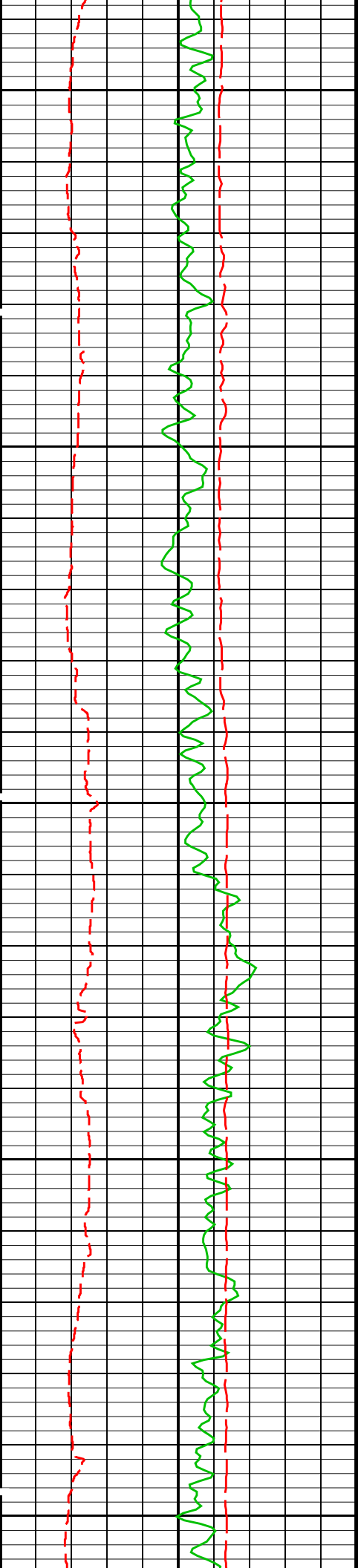




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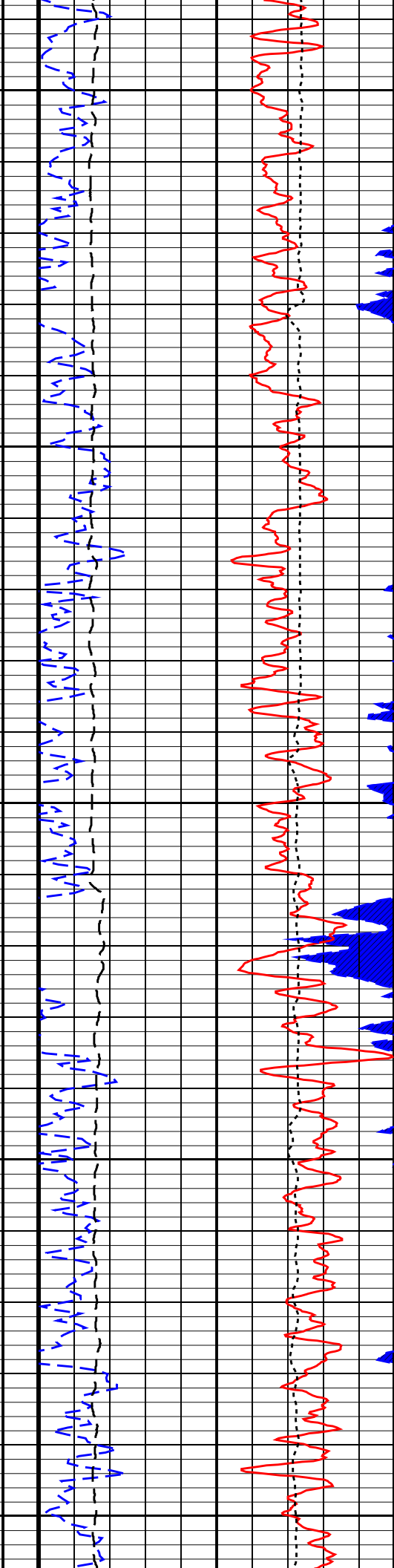
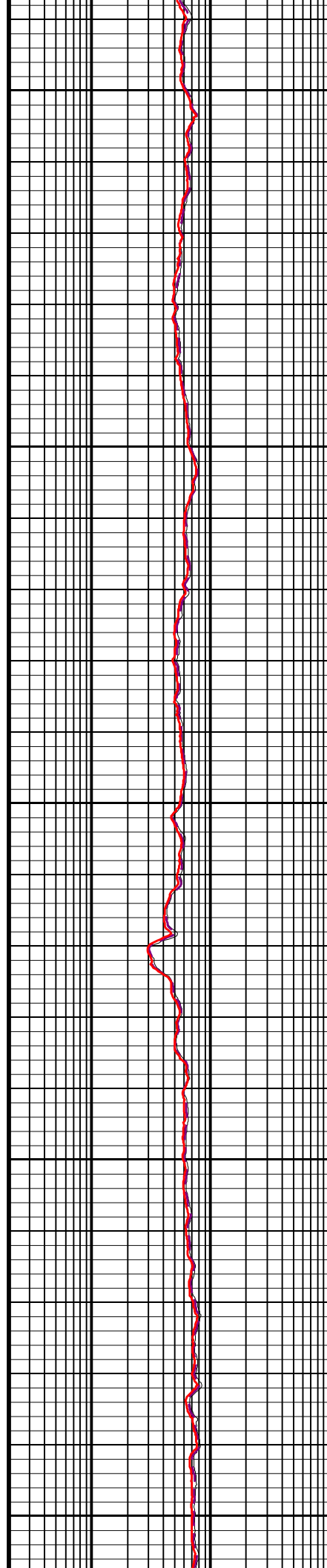
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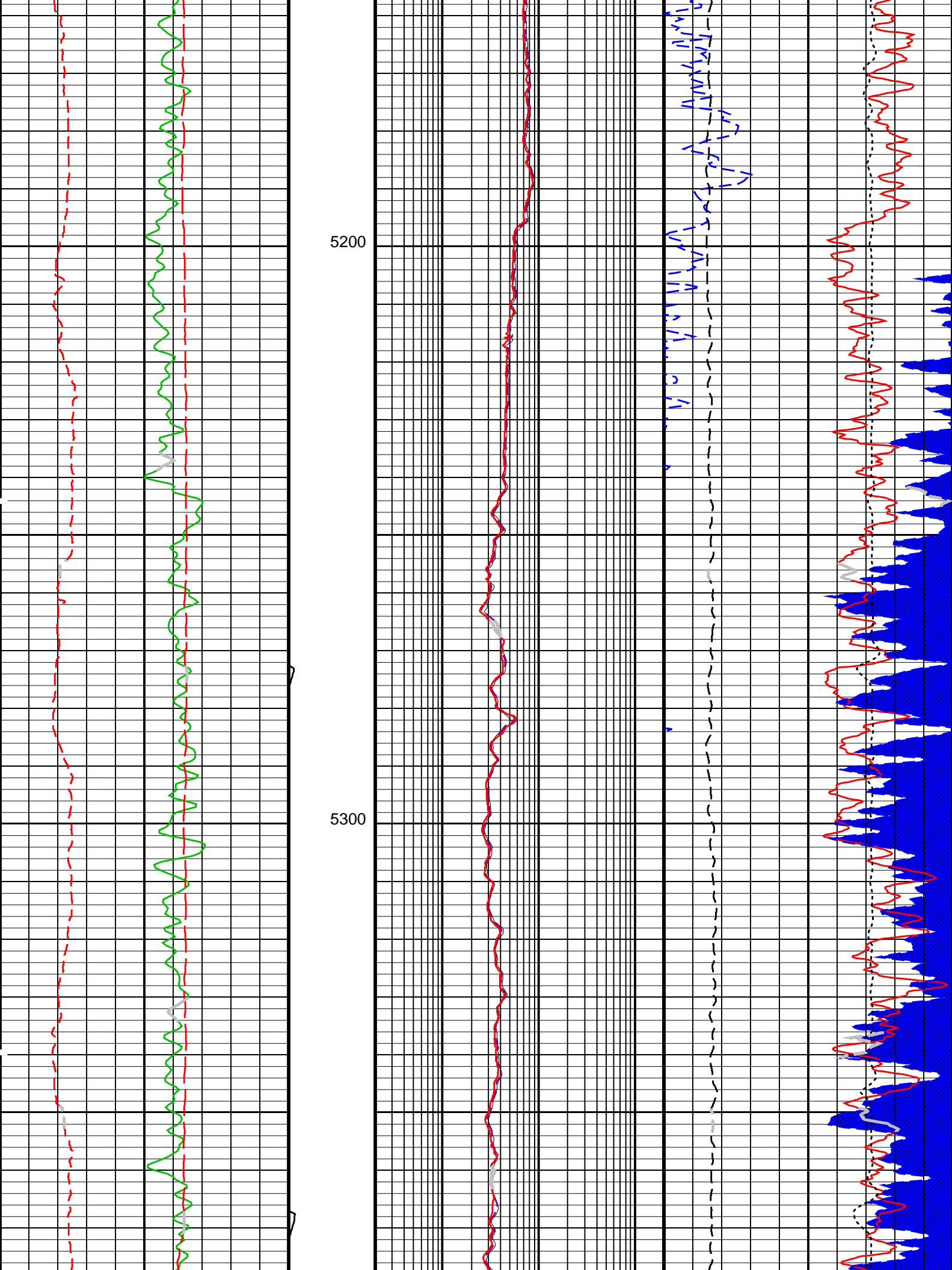


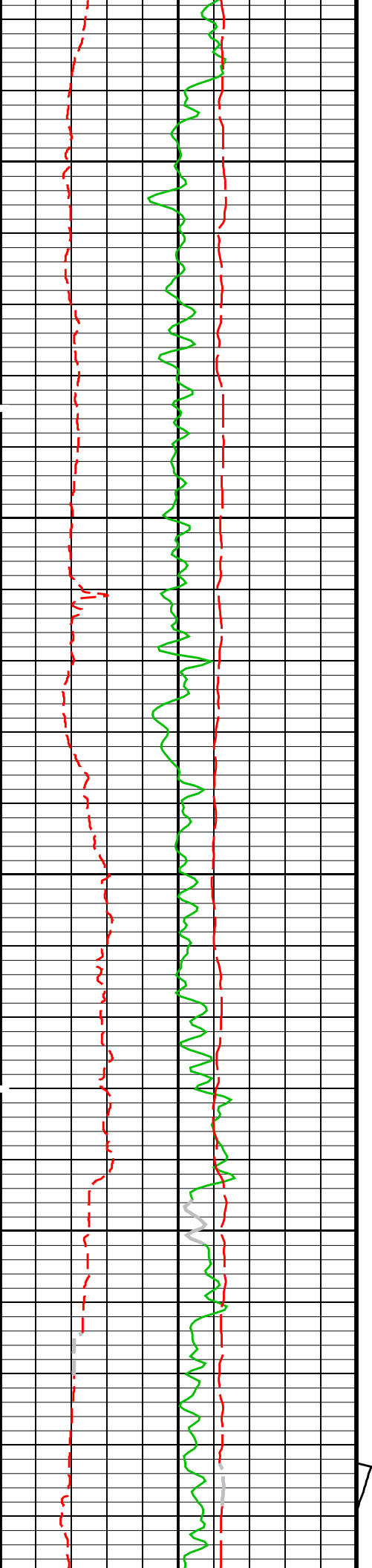


5000

5100

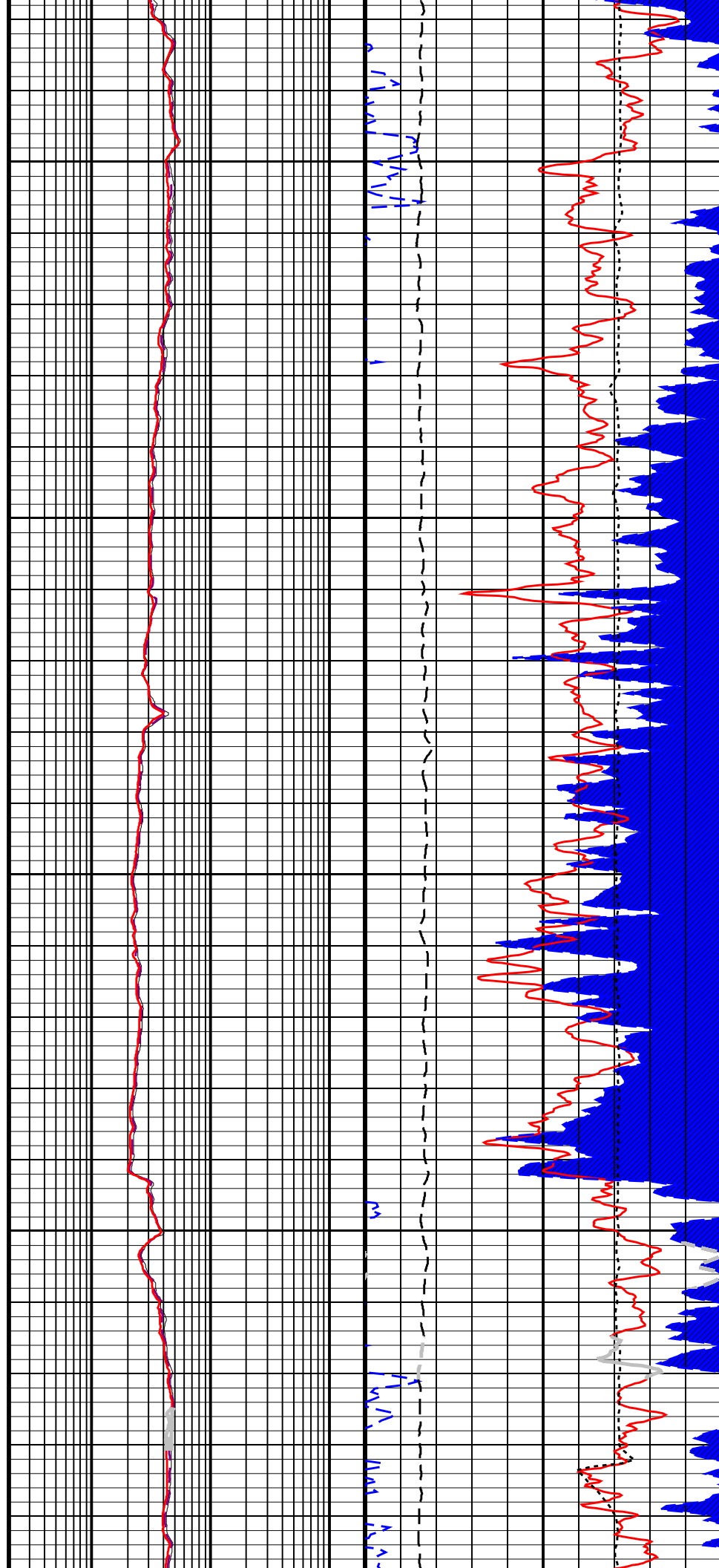


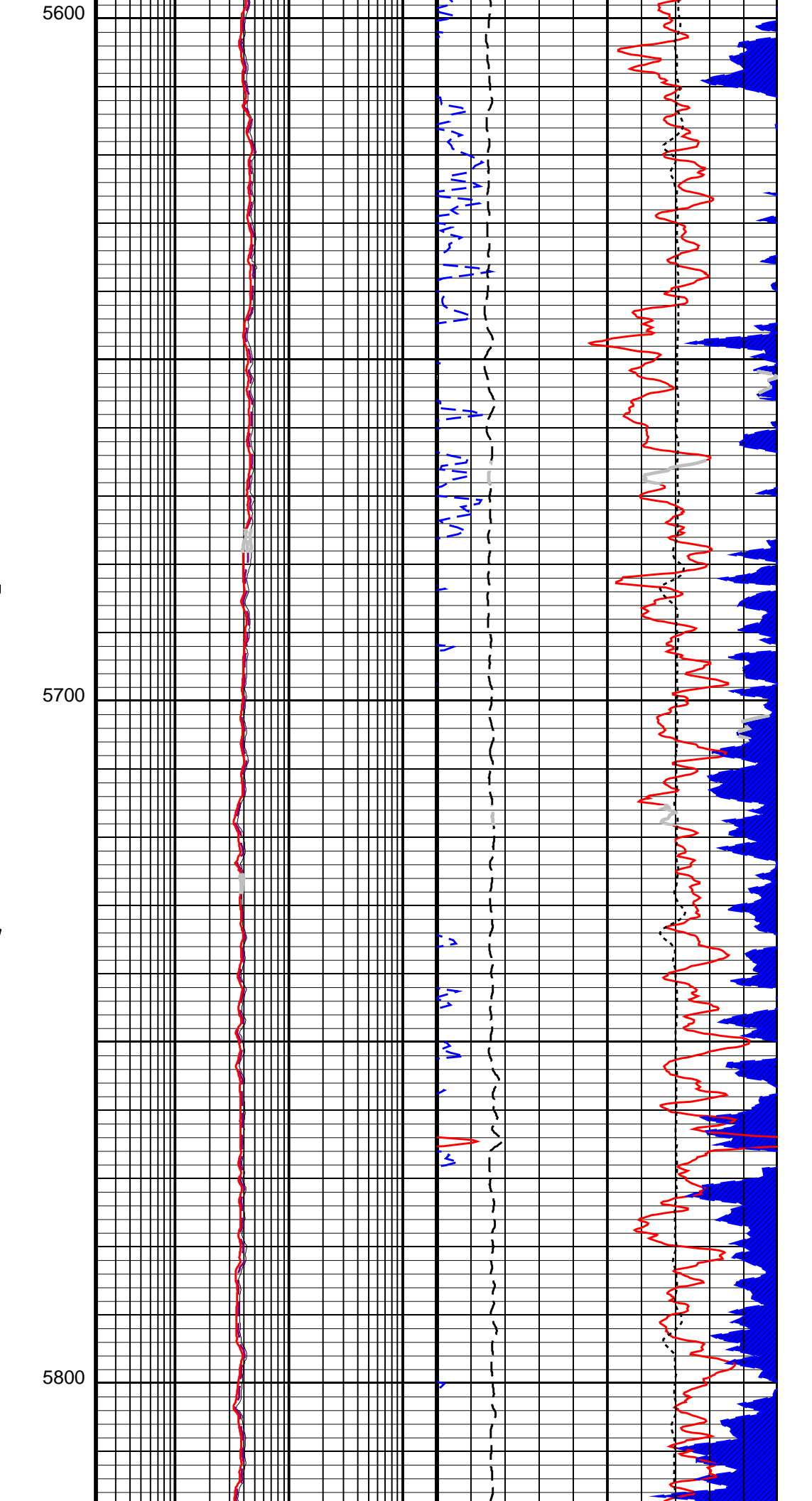
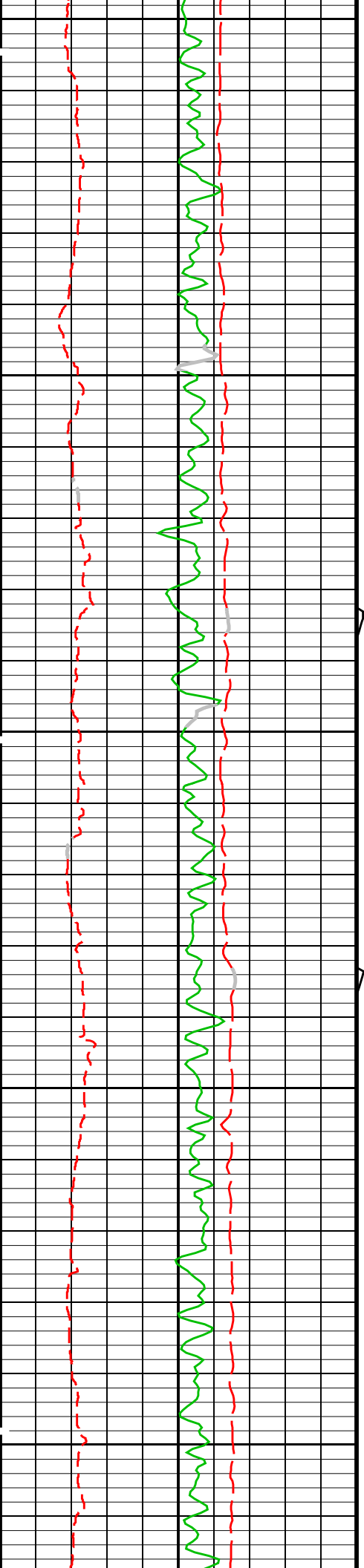


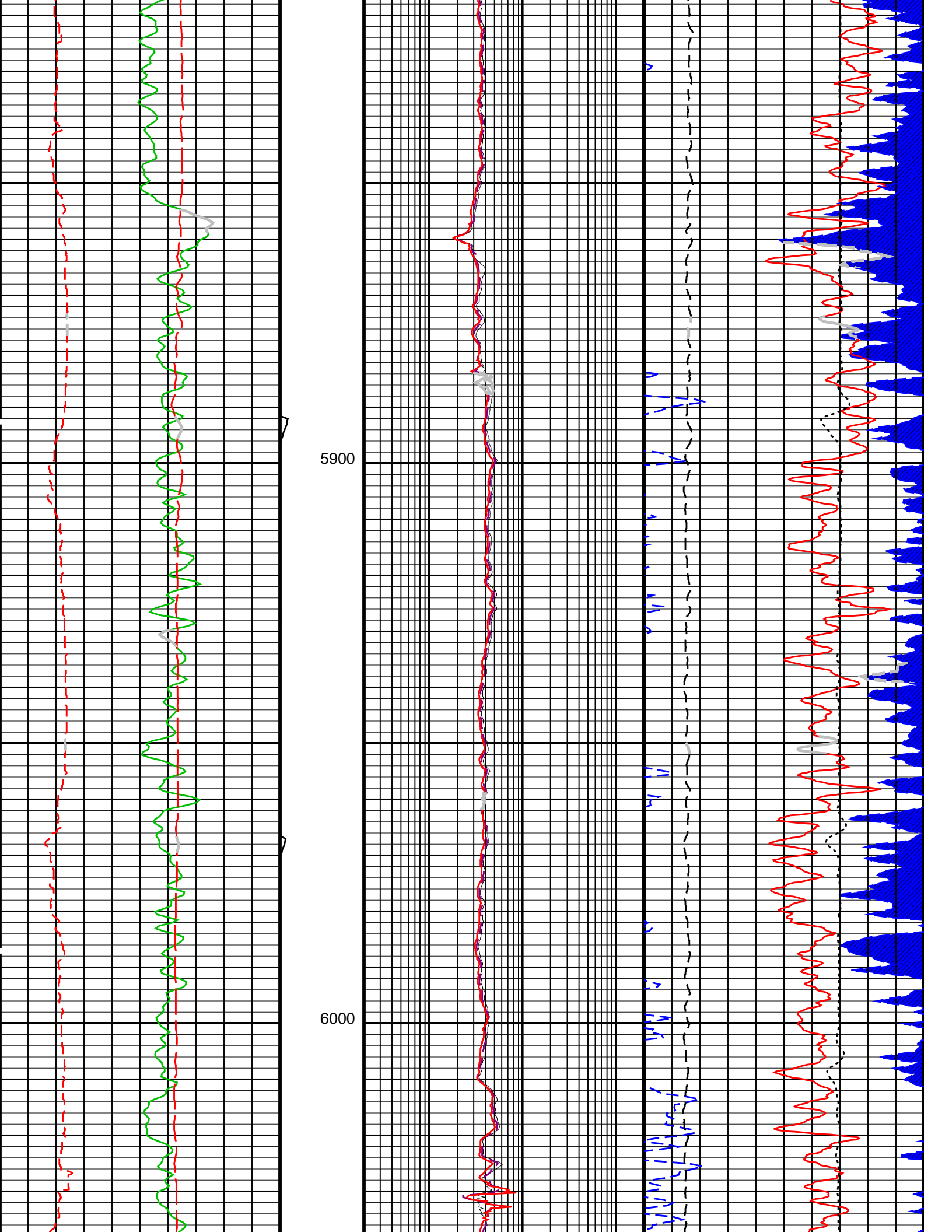


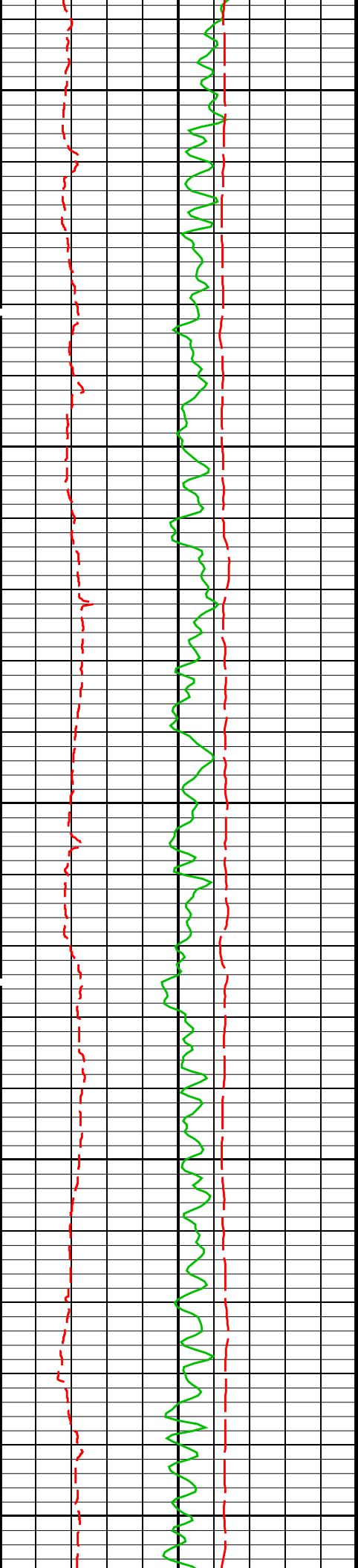
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5500



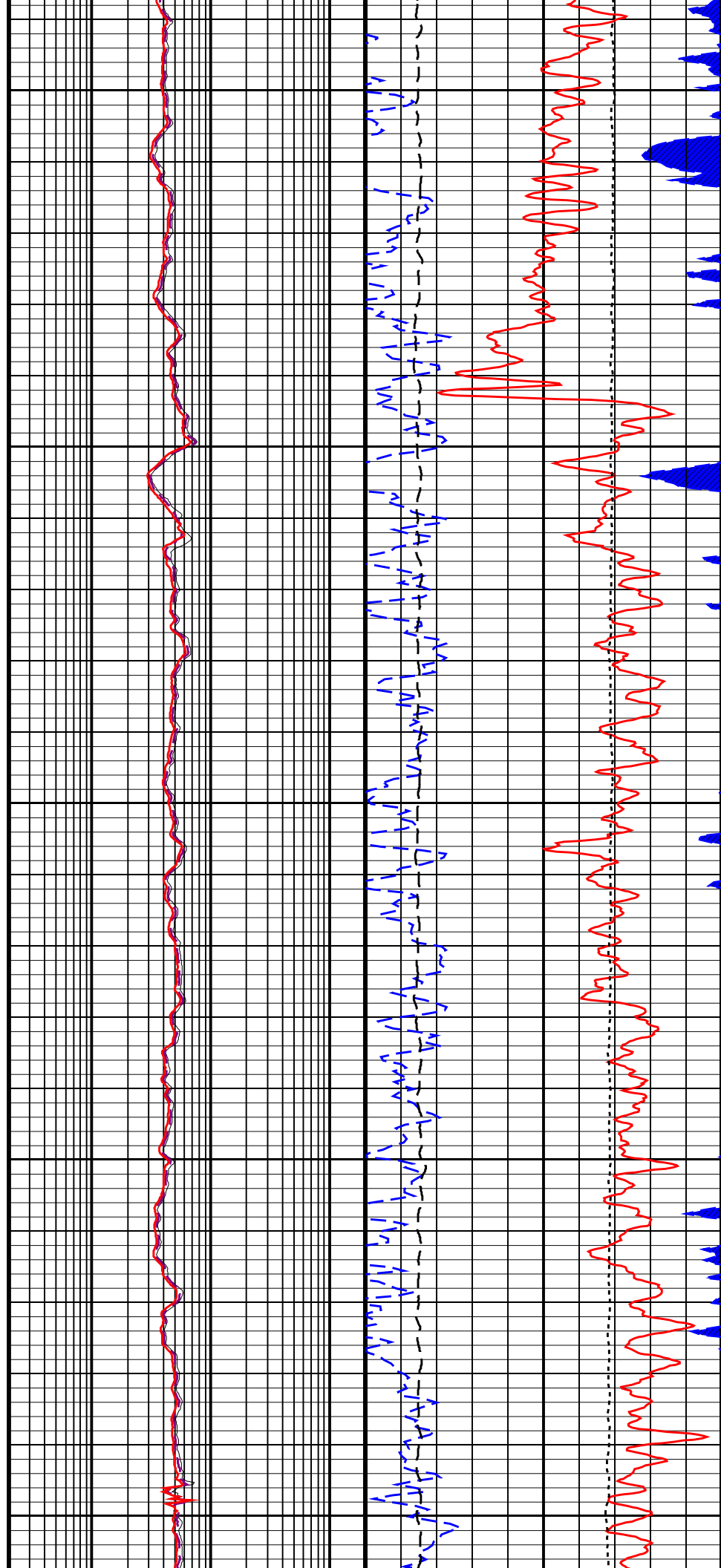


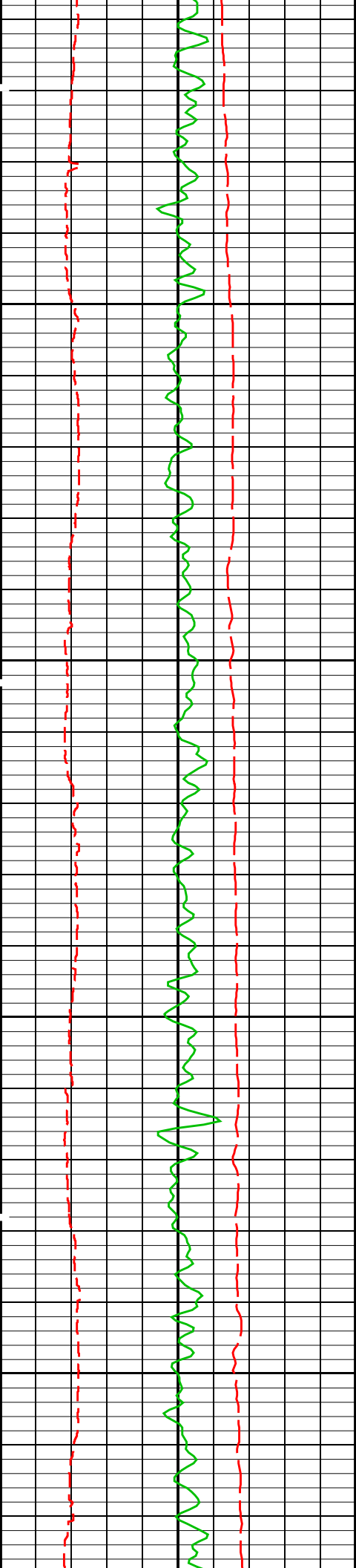




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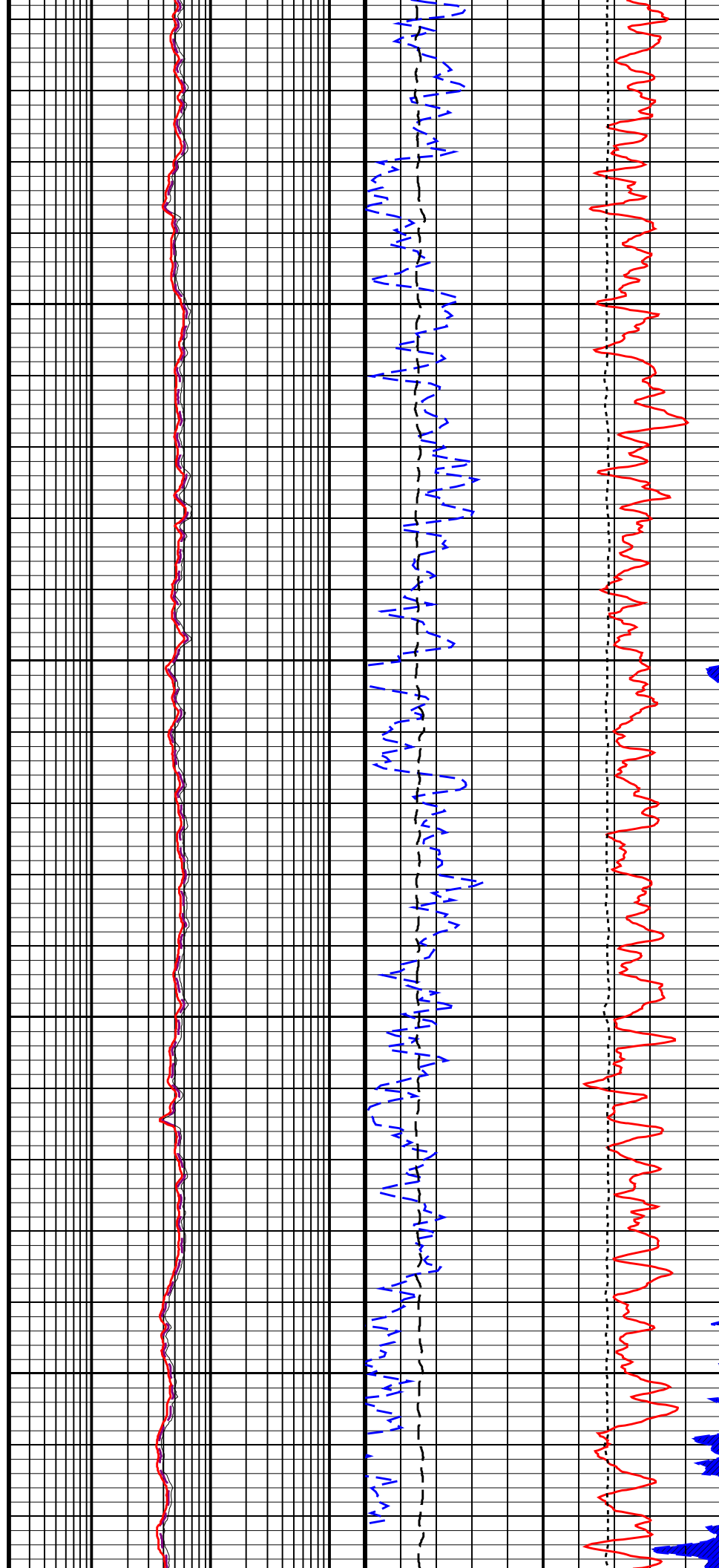
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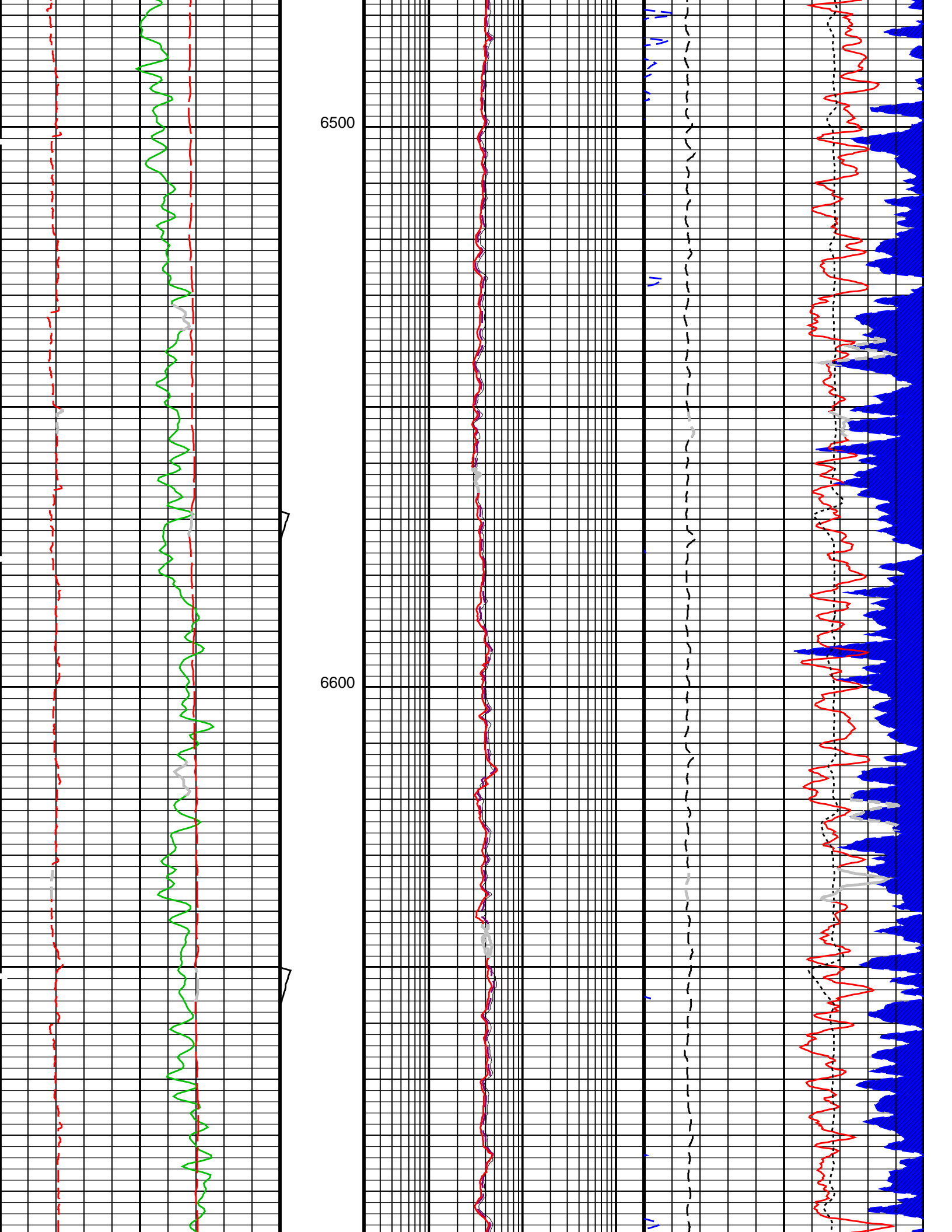


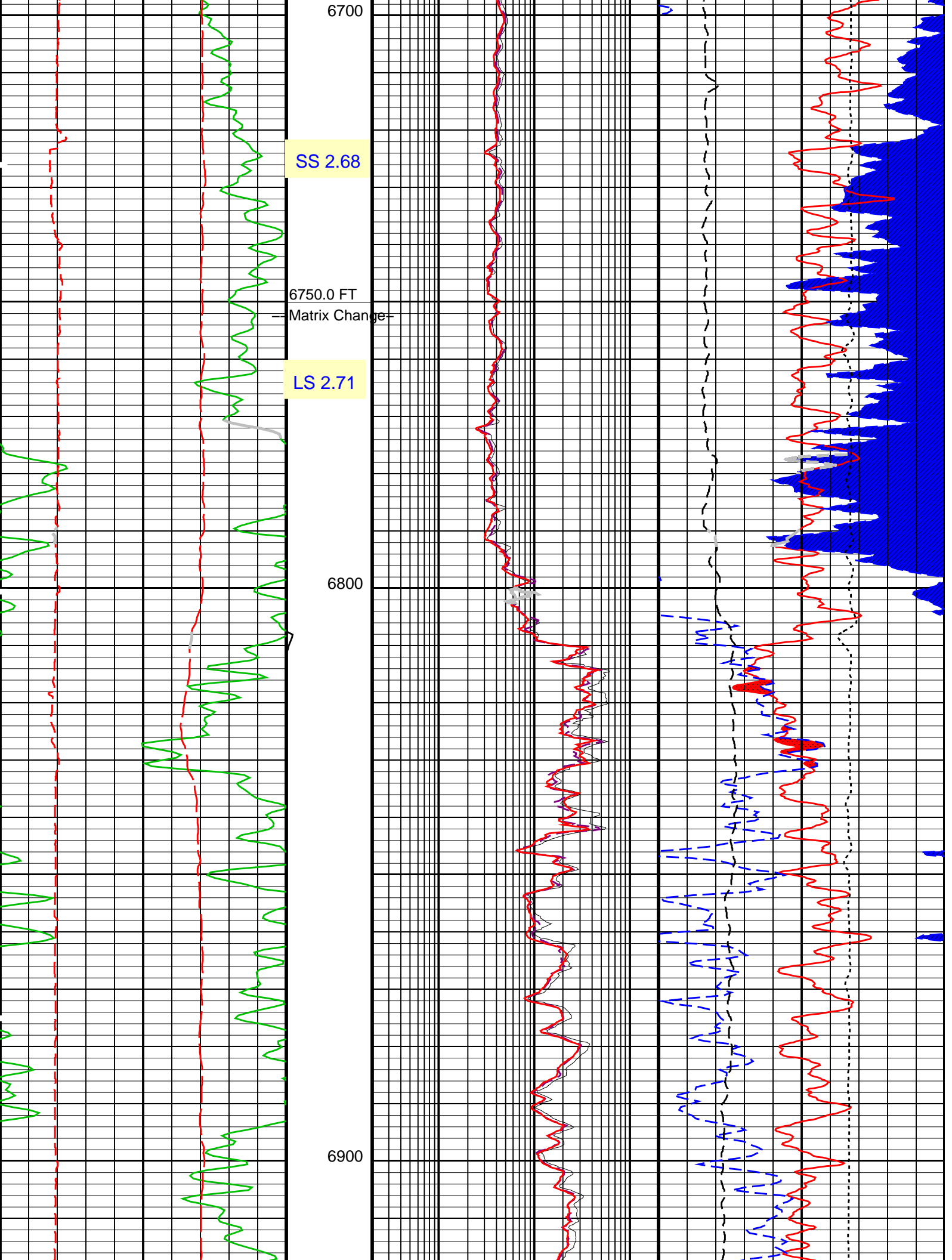


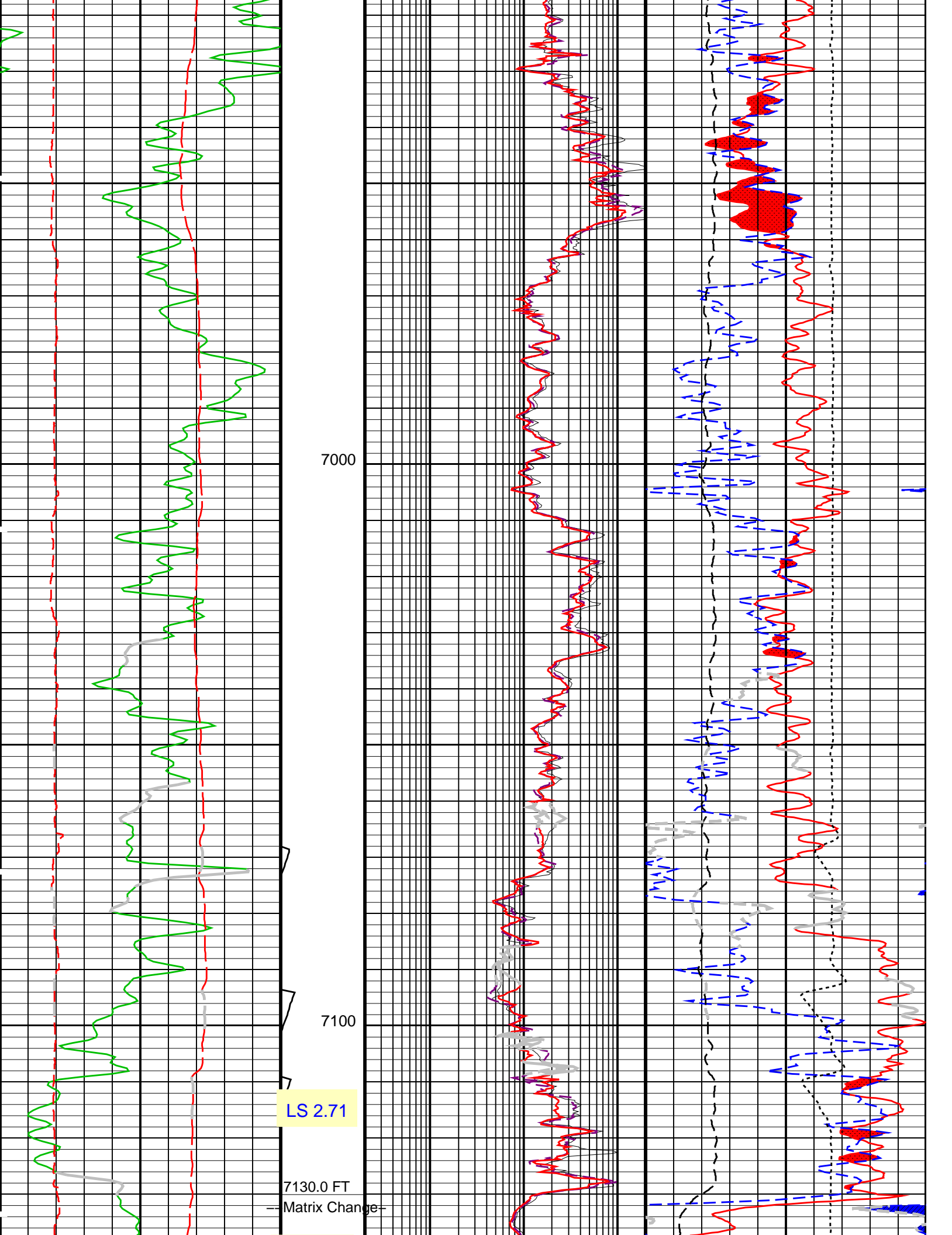
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6400





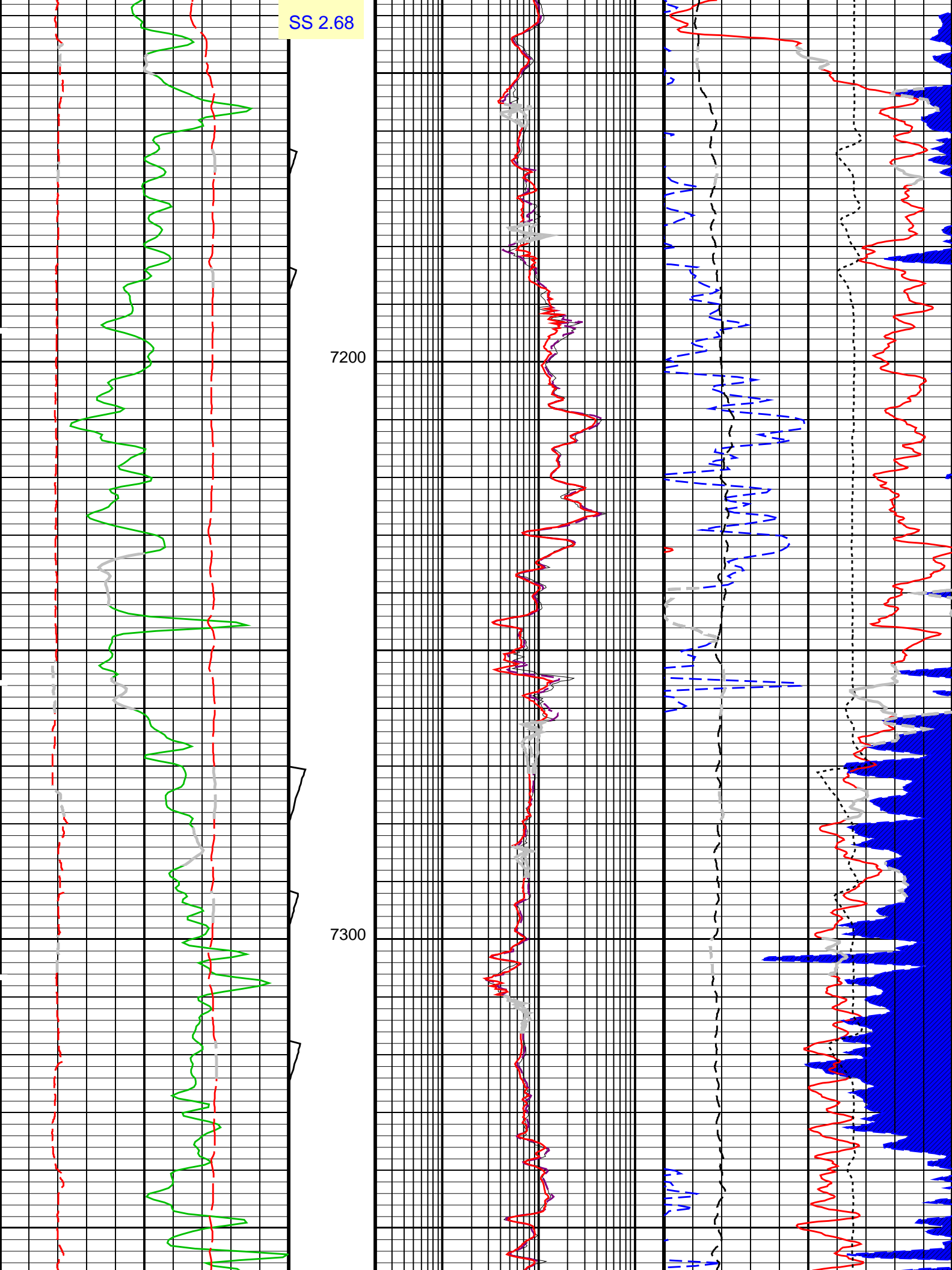


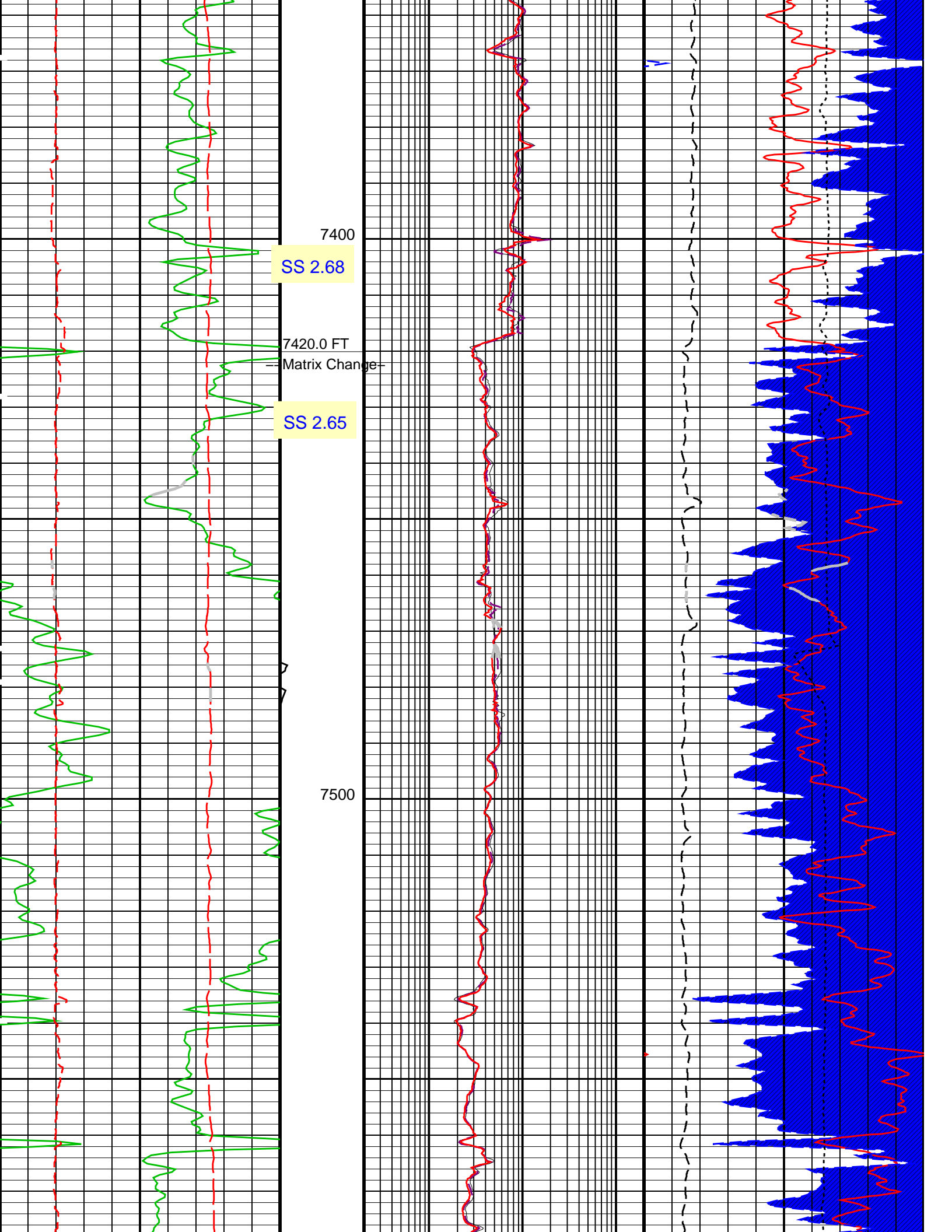


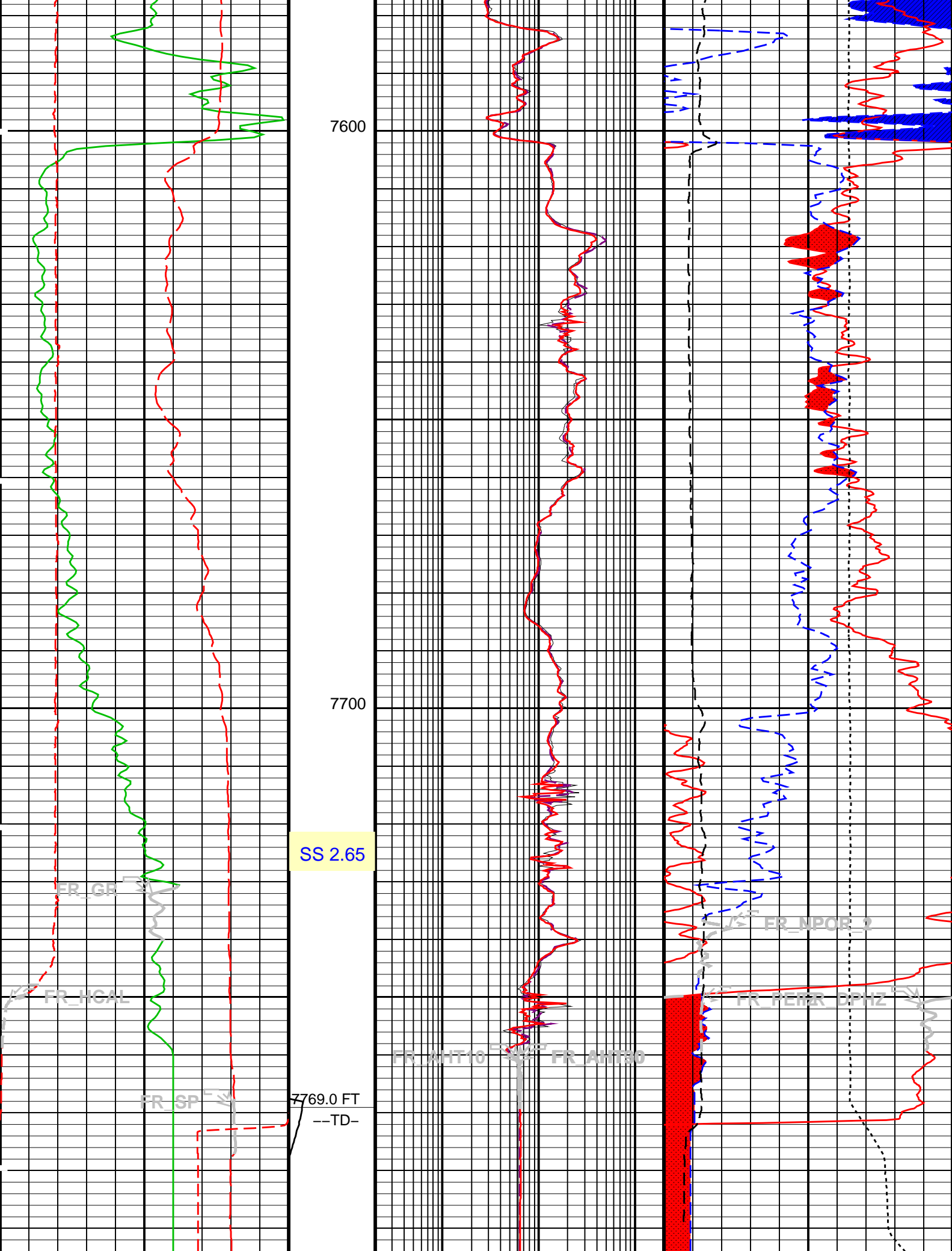
SS 2.68

7200

7300







Gamma Ray (GR)		200	Stretch (STIT)	0.2	AIT-H 10 Inch Investigation (AHT10)	200	Std. Res. Density Porosity (DPHZ)	0
(GAPI)			0 (F) 50		(OHMM)		(V/V)	
HILT Caliper (HCAL)		16		0.2	AIT-H 30 Inch Investigation (AHT30)	200	NPOR BACKUP From NPOR 2 to T3	
(IN)					(OHMM)			
SP (SP)		40		0.2	AIT-H 90 Inch Investigation (AHT90)	200	GAS EFFECT From DPHZ to NPOR 1	
-160					(OHMM)			
							Tension (TENS)	
							10000 (LBF)	0
							Alpha Processed Neutron Porosity	
							0.2 (NPOR)	0
							(V/V)	
							Std. Res. Formation Pe (PEFZ)	
							0 (----) 10	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HAIT-H: Array Induction Tool – H		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	900
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	223
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20
AHRFV	Array Induction Radial Profiling Code Version Number	701
AHRPV	Array Induction Radial Parametrization Code Version Number	232
AHSTA	Array Induction Tool Standoff	0.125 IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	210 DEGF
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
SHT	Surface Hole Temperature	68 DEGF
SPNV	SP Next Value	0 MV
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	210 DEGF
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1 G/C3
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
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
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM
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

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	
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	210	DEGF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	68	DEGF
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	210	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
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	7769.00	FT
TDL	Total Depth - Logger	7769.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	9.20	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	185.00	DEGF
RMFS	Resistivity of Mud Filtrate Sample	1.0125	OHMM
TD	Total Depth	7769	FT

Format: COMBO Vertical Scale: 5" per 100' Graphics File Created: 09-Jun-2008 13:22

OP System Version: 15C0-309

MCM

HAIT-H	15C0-309	HILTB-FTB	15C0-309
GPIT-C	15C0-309	DTC-H	15C0-309

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_009LUP	FN:8	PRODUCER	09-Jun-2008 13:22
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Company: **Orr Energy, LLC**

Schlumberger

Well: **Lakes 31-22D**
Field: **LaPoudre South**
County: **Weld**
State: **Colorado**

Platform Express
Triple Combo