

Input DLIS Files

DEFAULT MERGE_HRLA_010 FN:1 PRODUCER 13-Jun-2008 12:57 2597.0 M 669.8 M

Output DLIS Files

DEFAULT TLD_MCFL_CNL_ECS_012PUP FN:10 PRODUCER 13-Jun-2008 13:05 2597.0 M 676.8 M

Integrated Hole/Cement Volume Summary

Hole Volume = 72.26 M3
 Cement Volume = 72.26 M3 (assuming 0.00 IN casing O.D.)
 Computed from 2590.5 M to 677.0 M using data channel(s) HCAL

OP System Version: 15C0-309

MCM

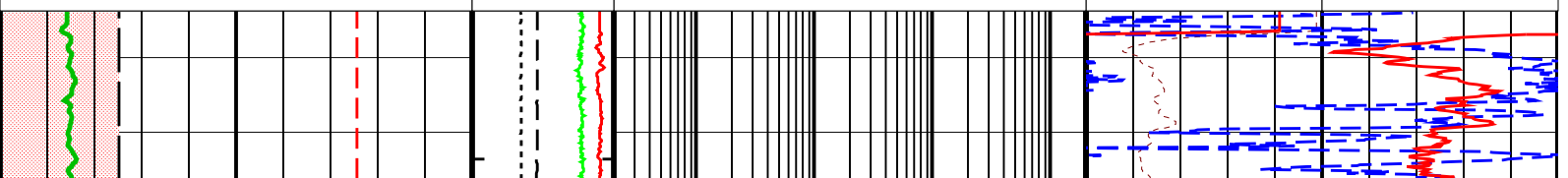
HILTB-FTB	SRPC-3582-Q1_2008_OP15_b	ECS-A	SPC-3355-NUCL_b
ECC-B	15C0-309	HRLT-B	15C0-309
HNGC-BA	15C0-309	HNGS-BA	SPC-3355-NUCL_b
DTC-H	15C0-309		

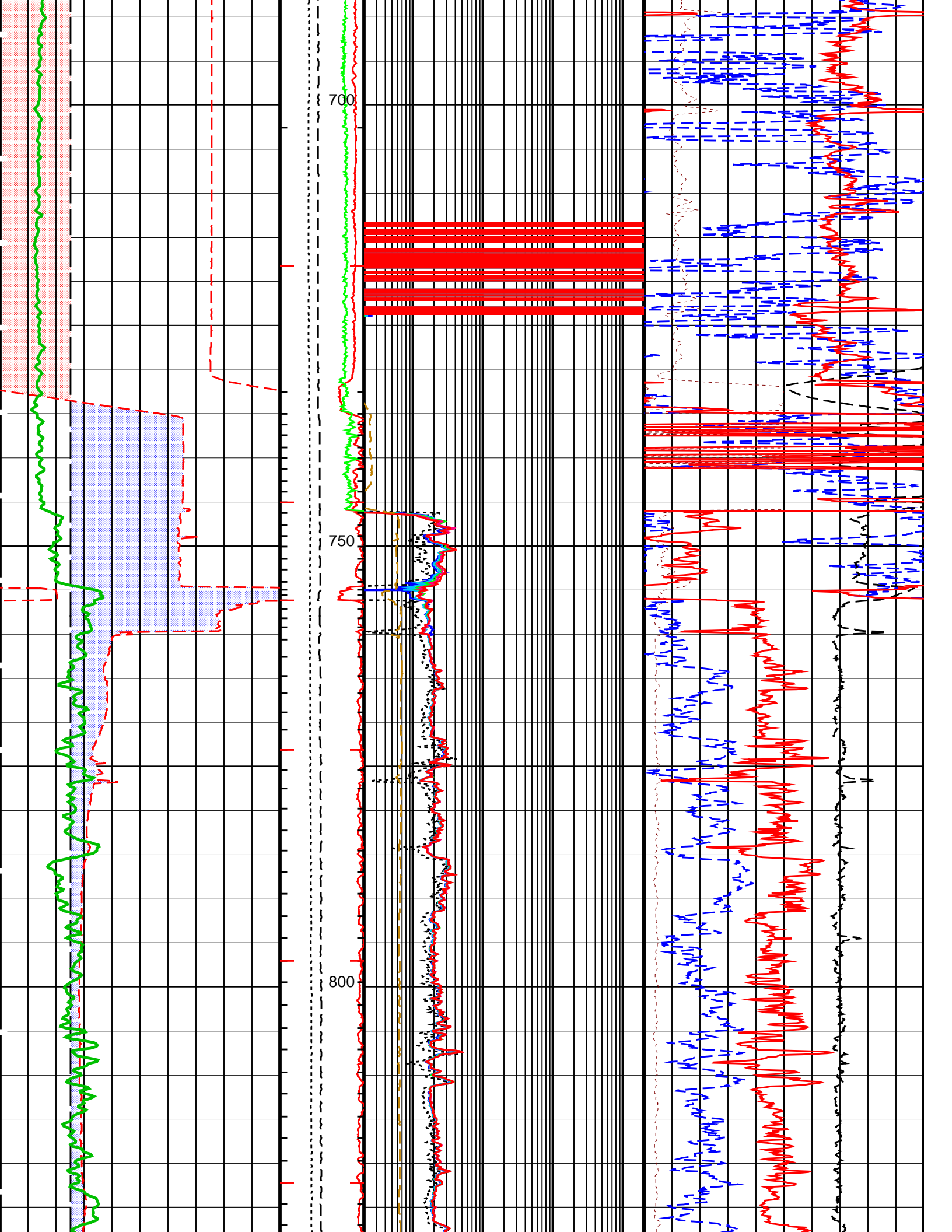
PIP SUMMARY

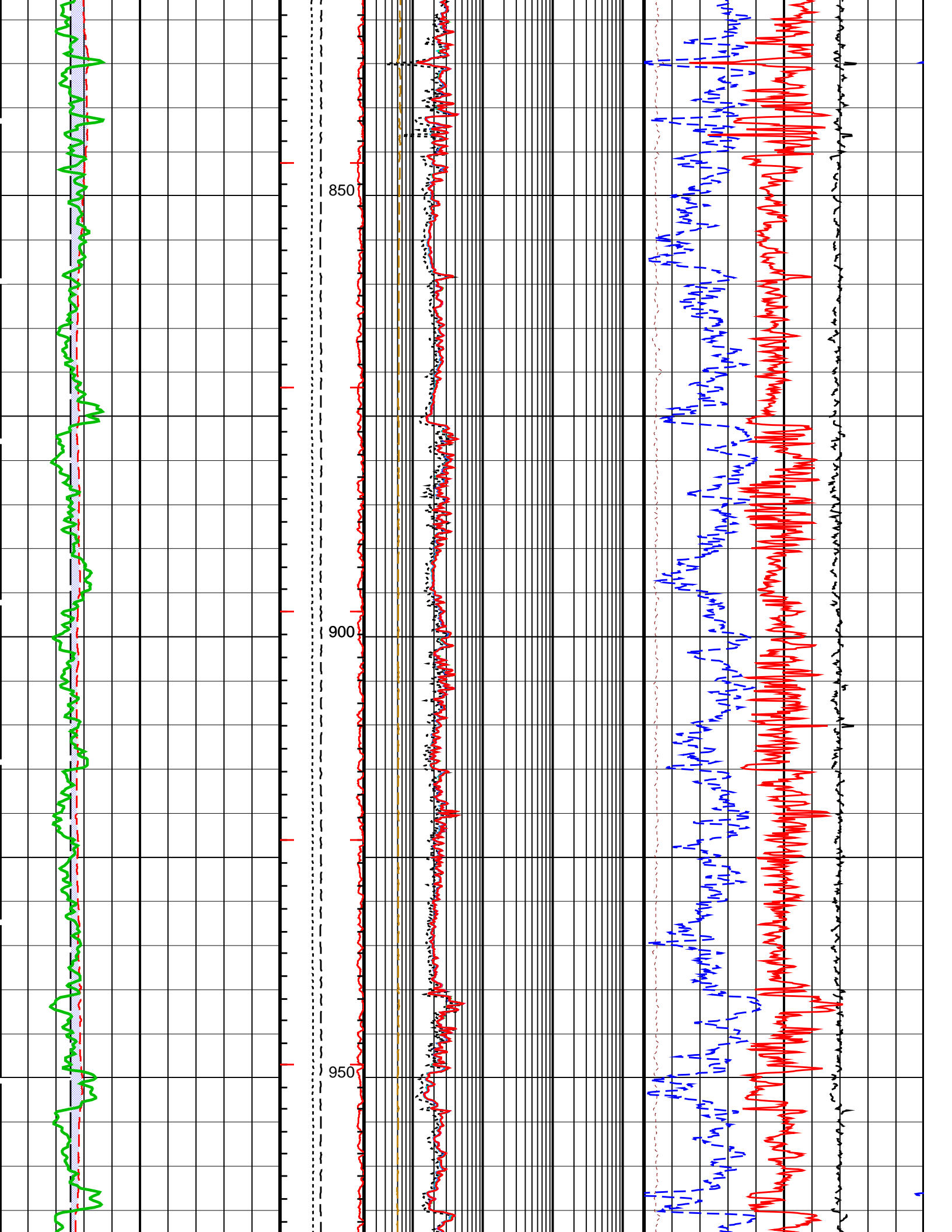
- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
- ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
- ┆ Integrated Cement Volume Major Pip Every 1 M3

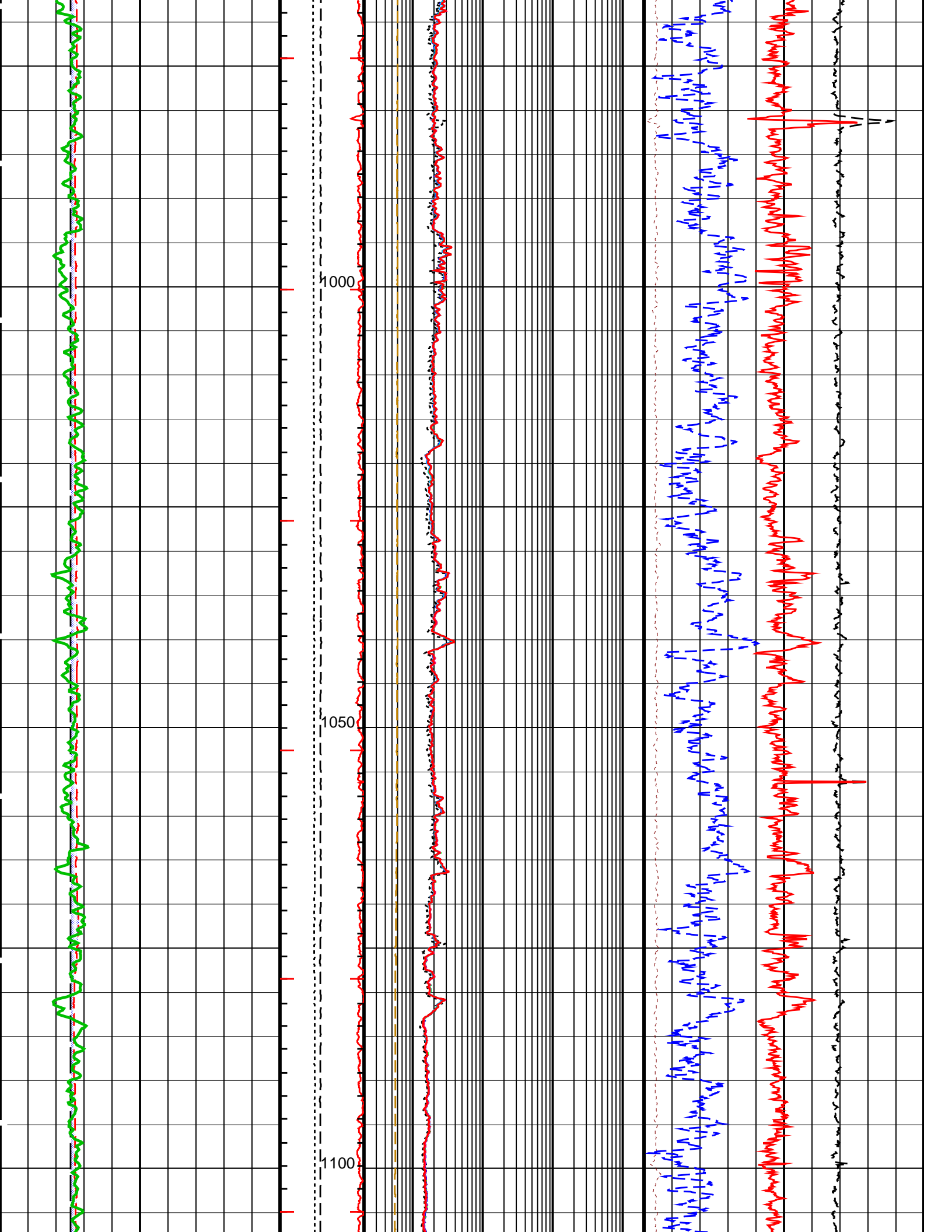
Time Mark Every 60 S

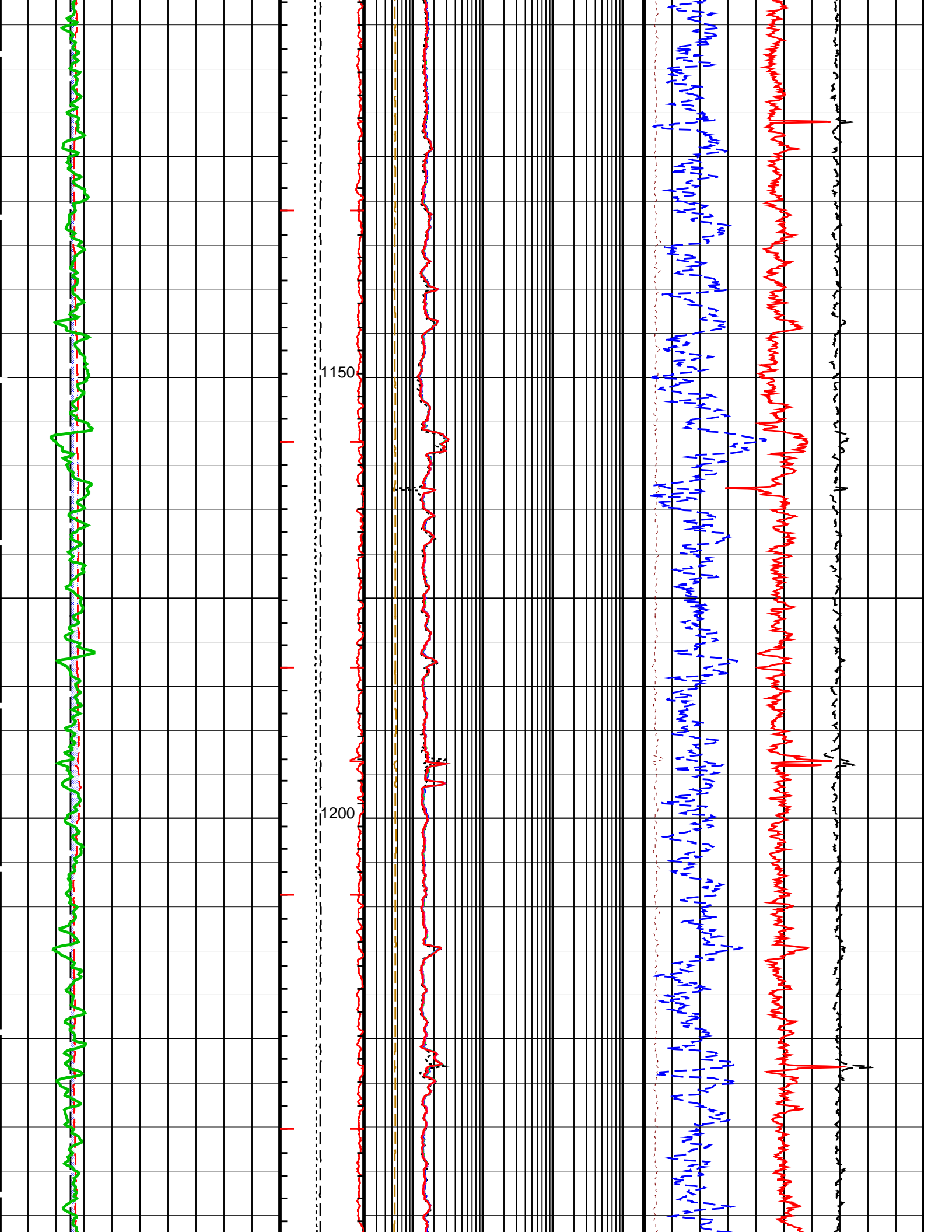
		<u>HRLT Mud Resistivity (RM_HRLT)</u>				
		0.02	(OHMM)	200		
		<u>HRLT Resistivity 5 (RLA5)</u>				
		0.2	(OHMM)	2000		
<u>HNGS Spectroscopy Gamma Ray (HSGR)</u>		<u>HRLT Resistivity 4 (RLA4)</u>				
0	(GAPI)	200	0.2	(OHMM)	2000	
<u>Undergauge From HCAL to BS</u>		Calibrated Downhole Force (CDF) (LBF)	<u>HRLT Resistivity 3 (RLA3)</u>		<u>Crossover From RHO8 to HTNP</u>	
		0	3000	0.2	(OHMM)	2000
<u>Washout From BS to HCAL</u>		H. Res. Resistivity Standoff (RSO8)	<u>HRLT Resistivity 2 (RLA2)</u>		<u>H. Res. Formation Density (RHO8)</u>	
		2.5 (IN)	0	0.2	(OHMM)	2000
				1.85	(G/C3)	2.85
<u>HILT Caliper (HCAL) (IN)</u>		H. Res. Density Standoff (DSO8)	<u>HRLT Resistivity 1 (RLA1)</u>		<u>HiRes TNPH (HTNP) (V/V)</u>	
6	16	2.5 (IN)	0	0.2	(OHMM)	2000
				0.45		
<u>Bit Size (BS) (IN)</u>		Tension (TENS) (LBF)	<u>H. Res. Invaded Zone Resistivity (RXO8)</u>		<u>Density Correction (HDRA)</u>	<u>H. Res. Formation Pe (PEF8)</u>
6	16	0	6000	0.2	(OHMM)	2000
				-0.05	(G/C3)	0.45
				0		

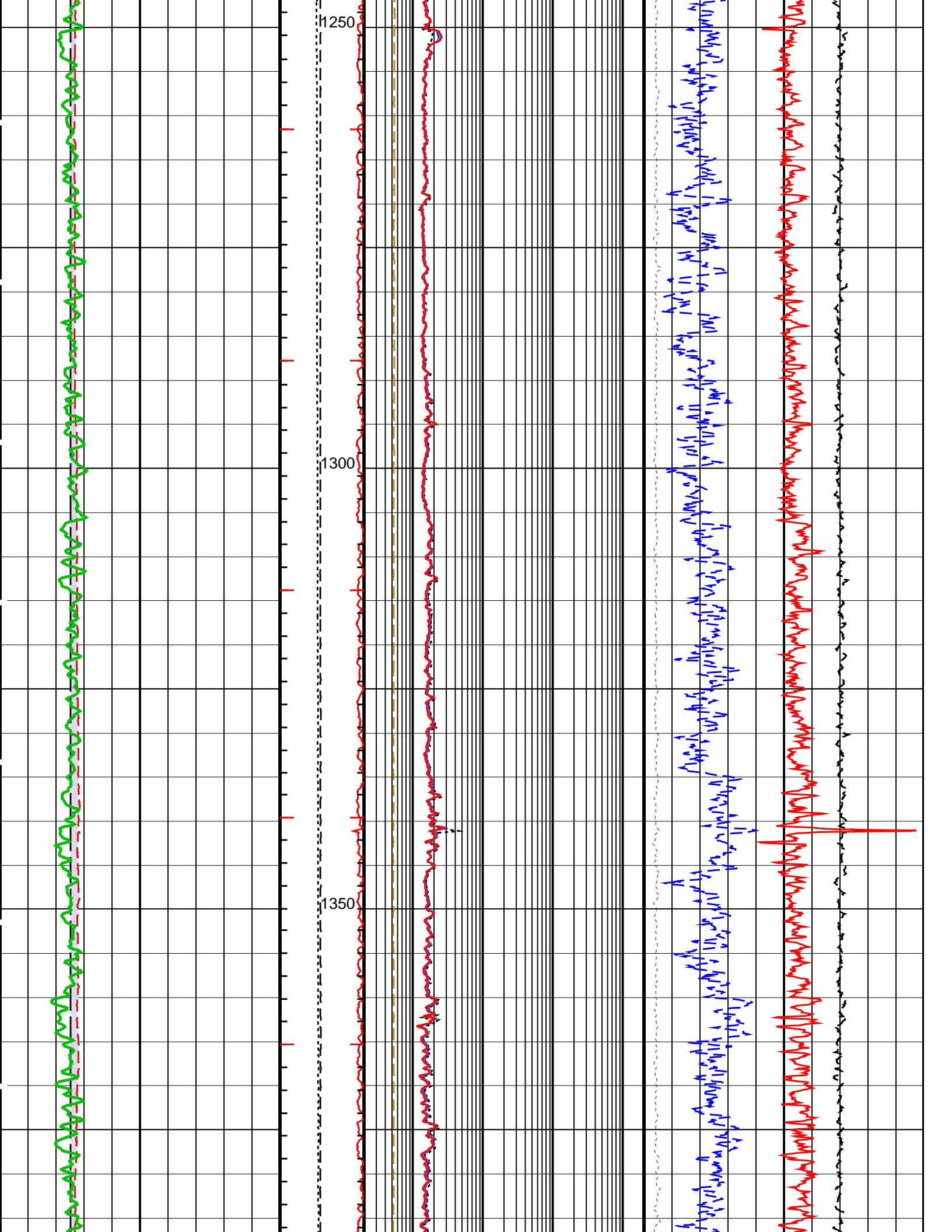


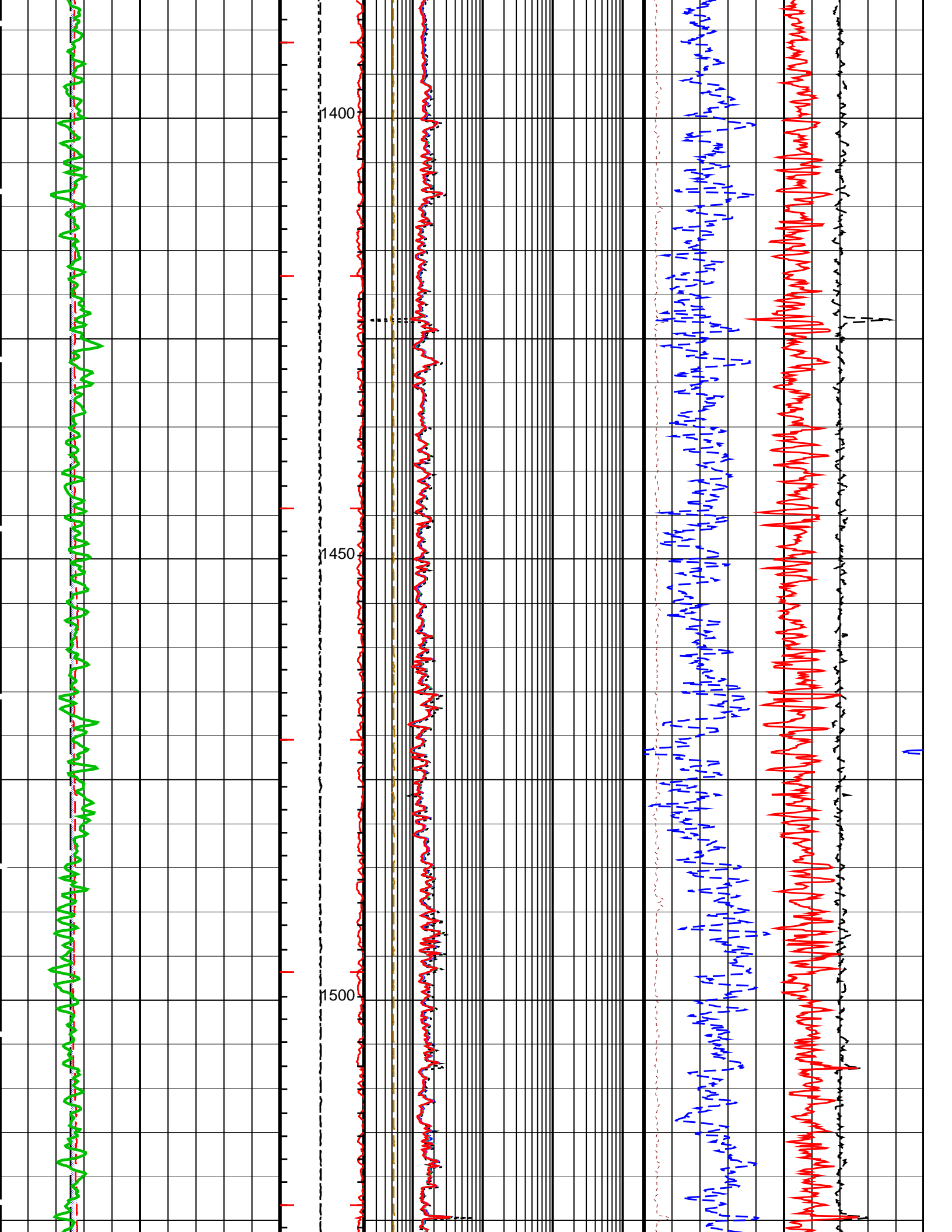


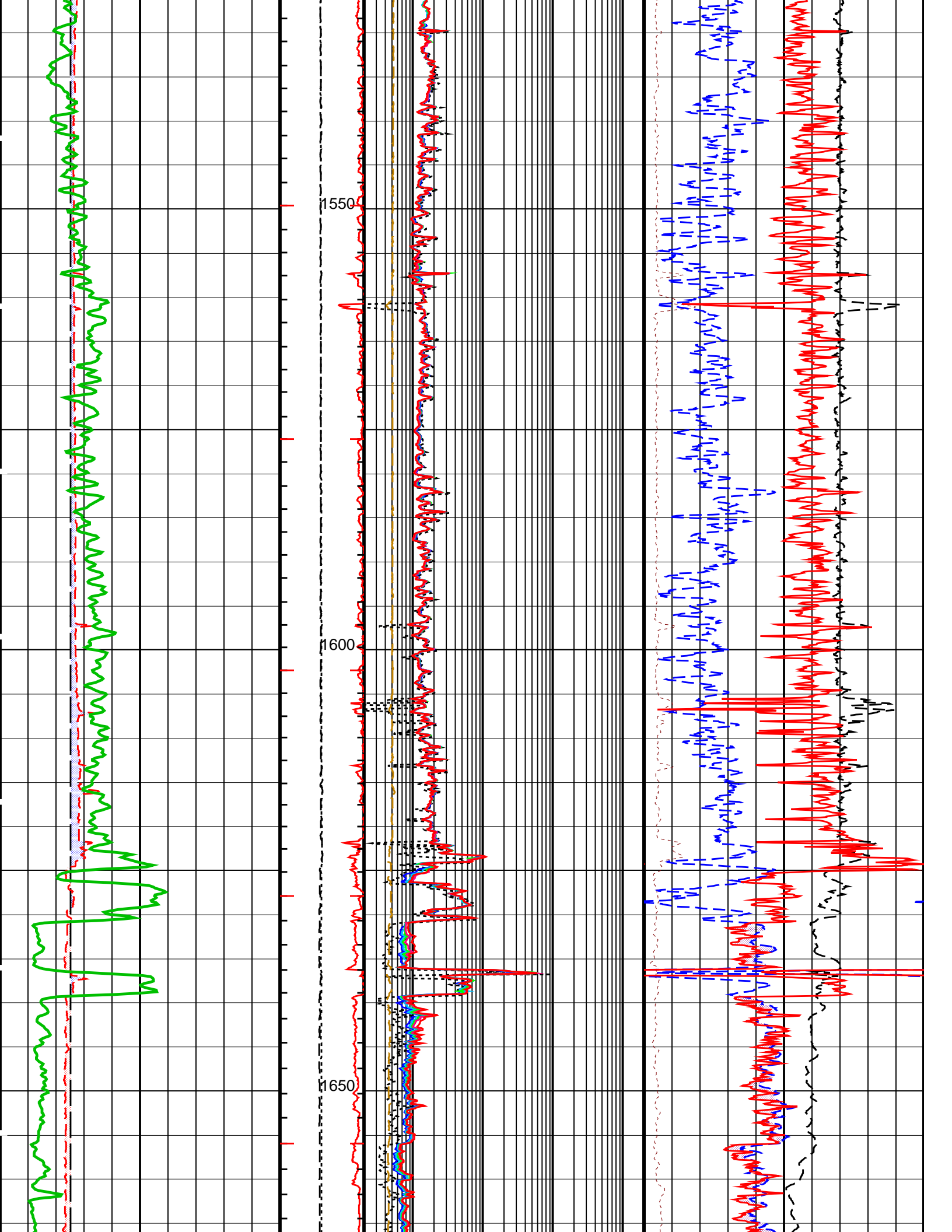


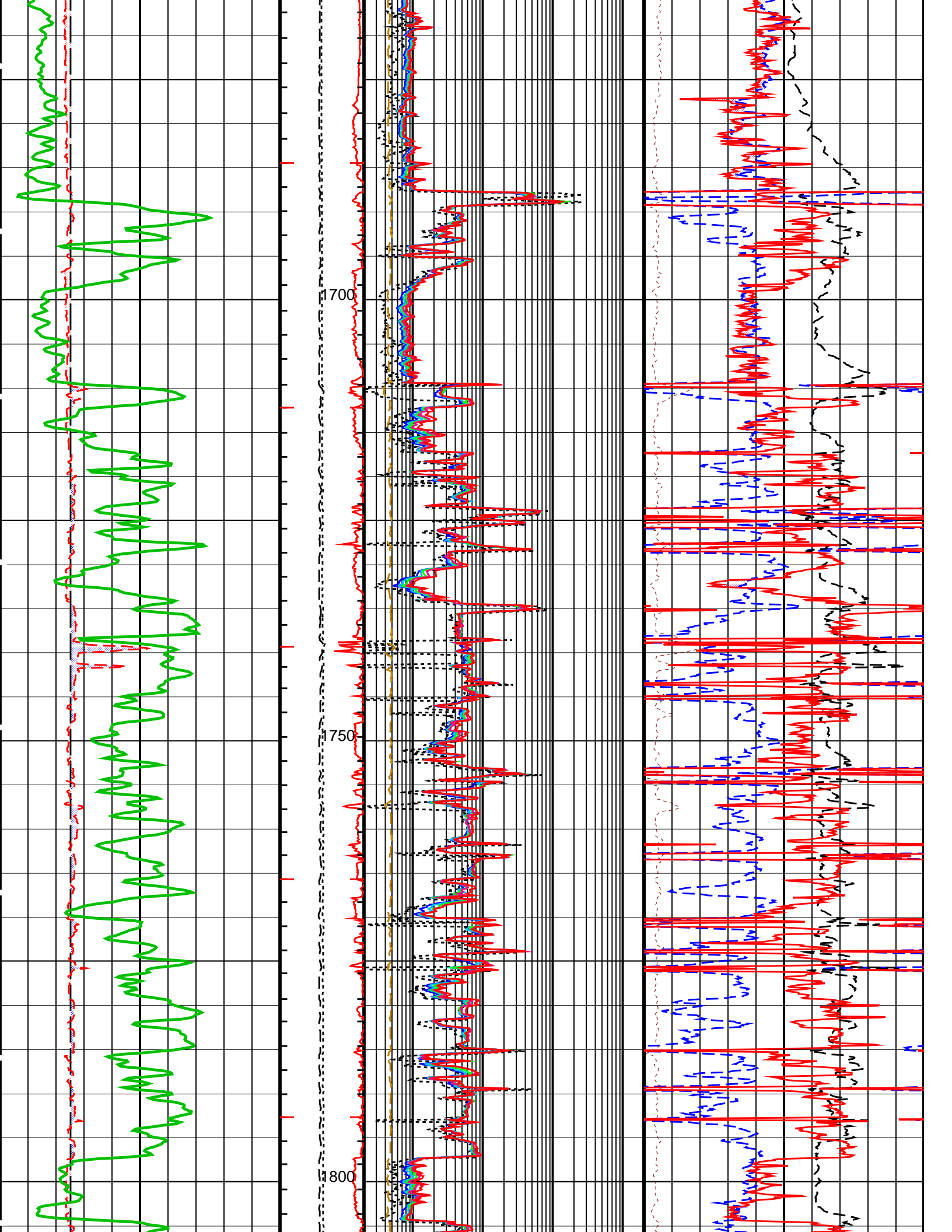


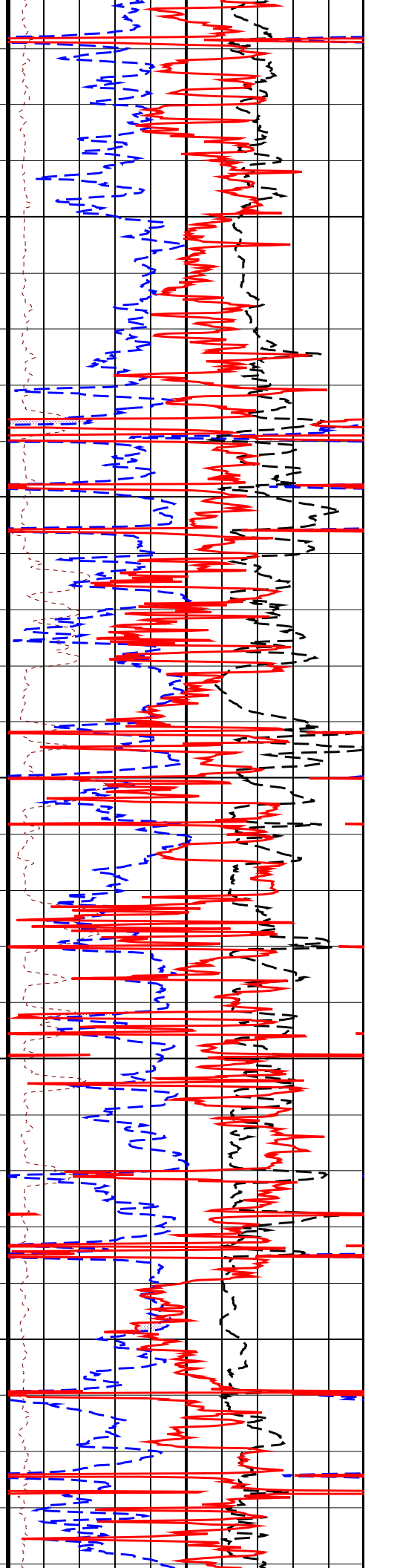
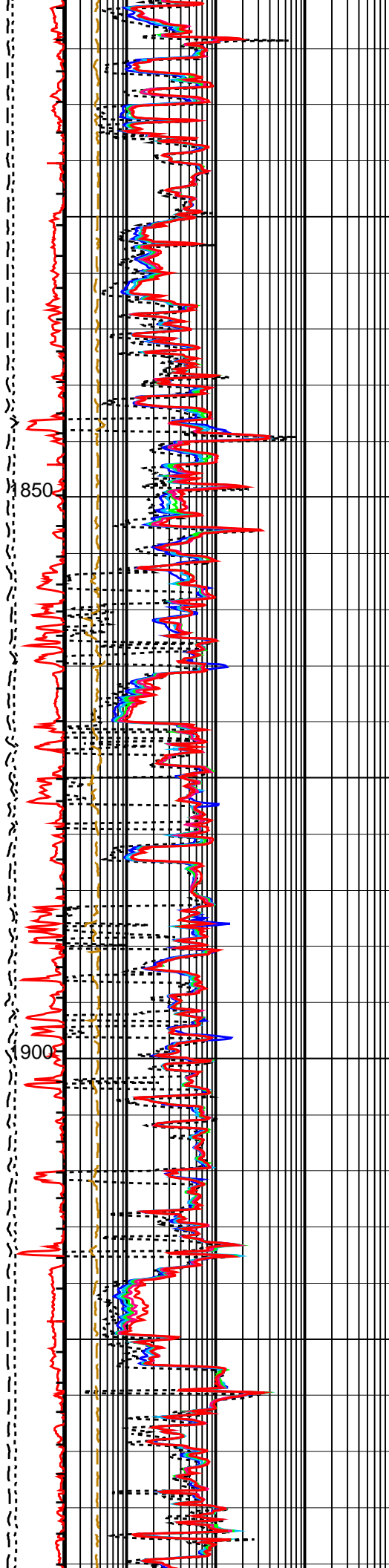
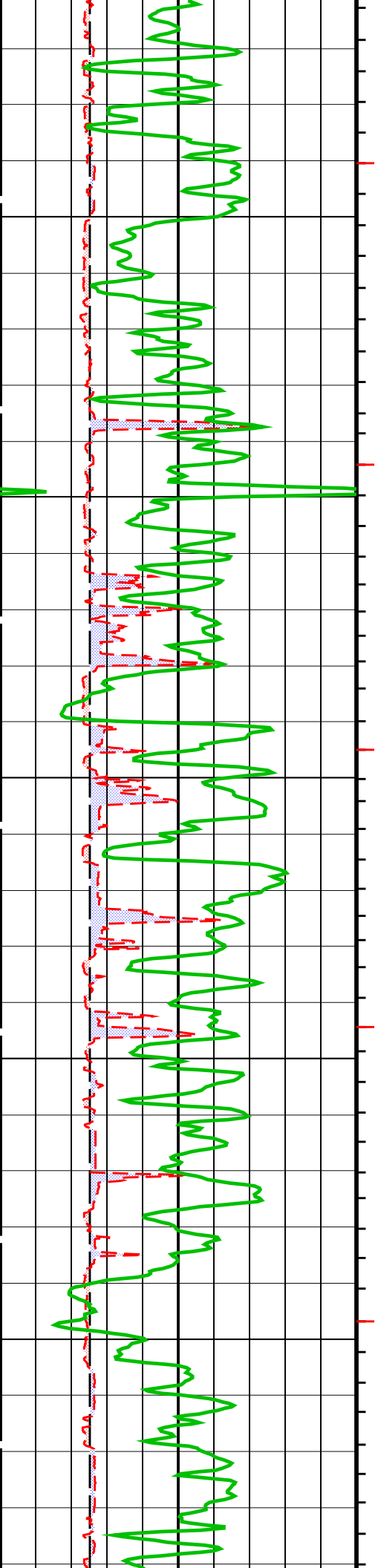


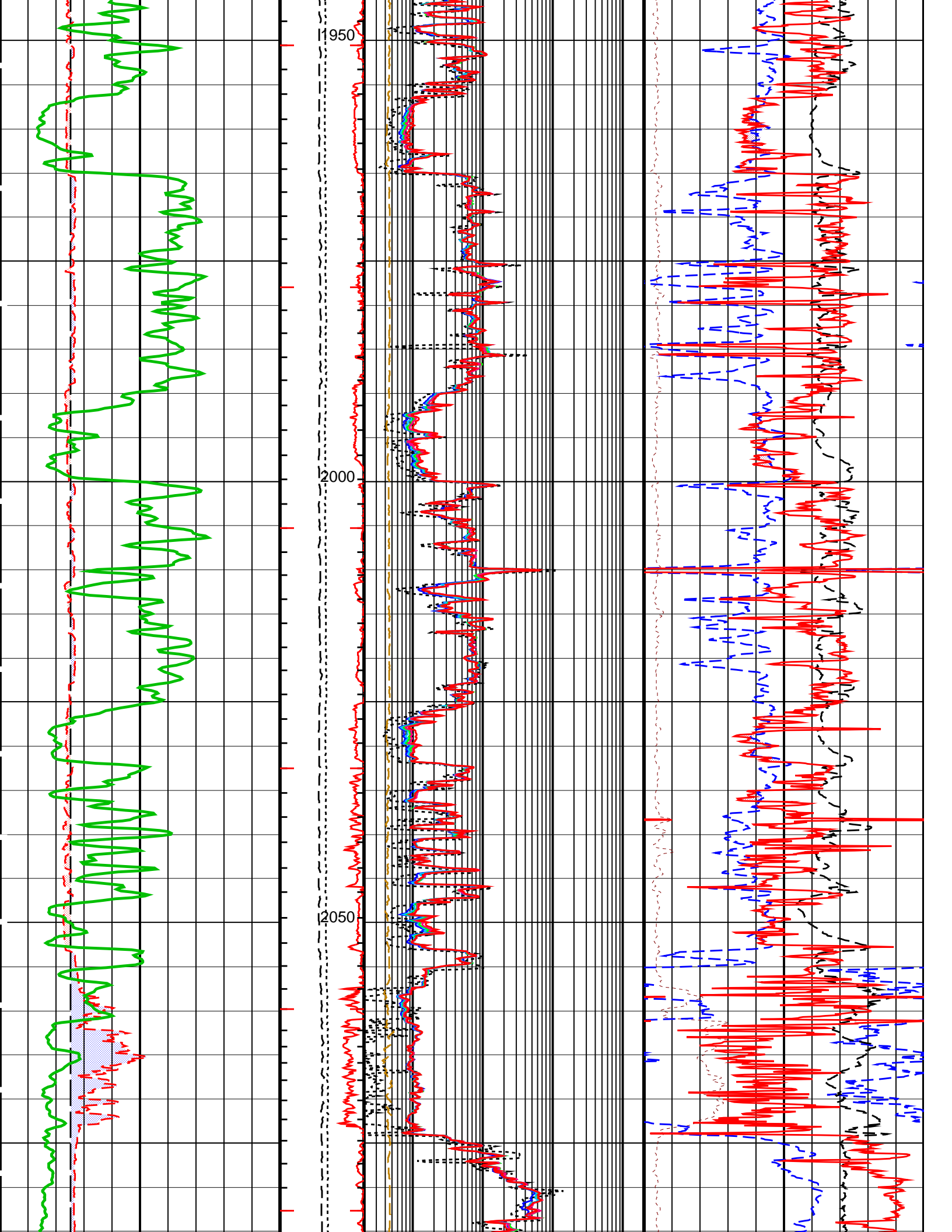


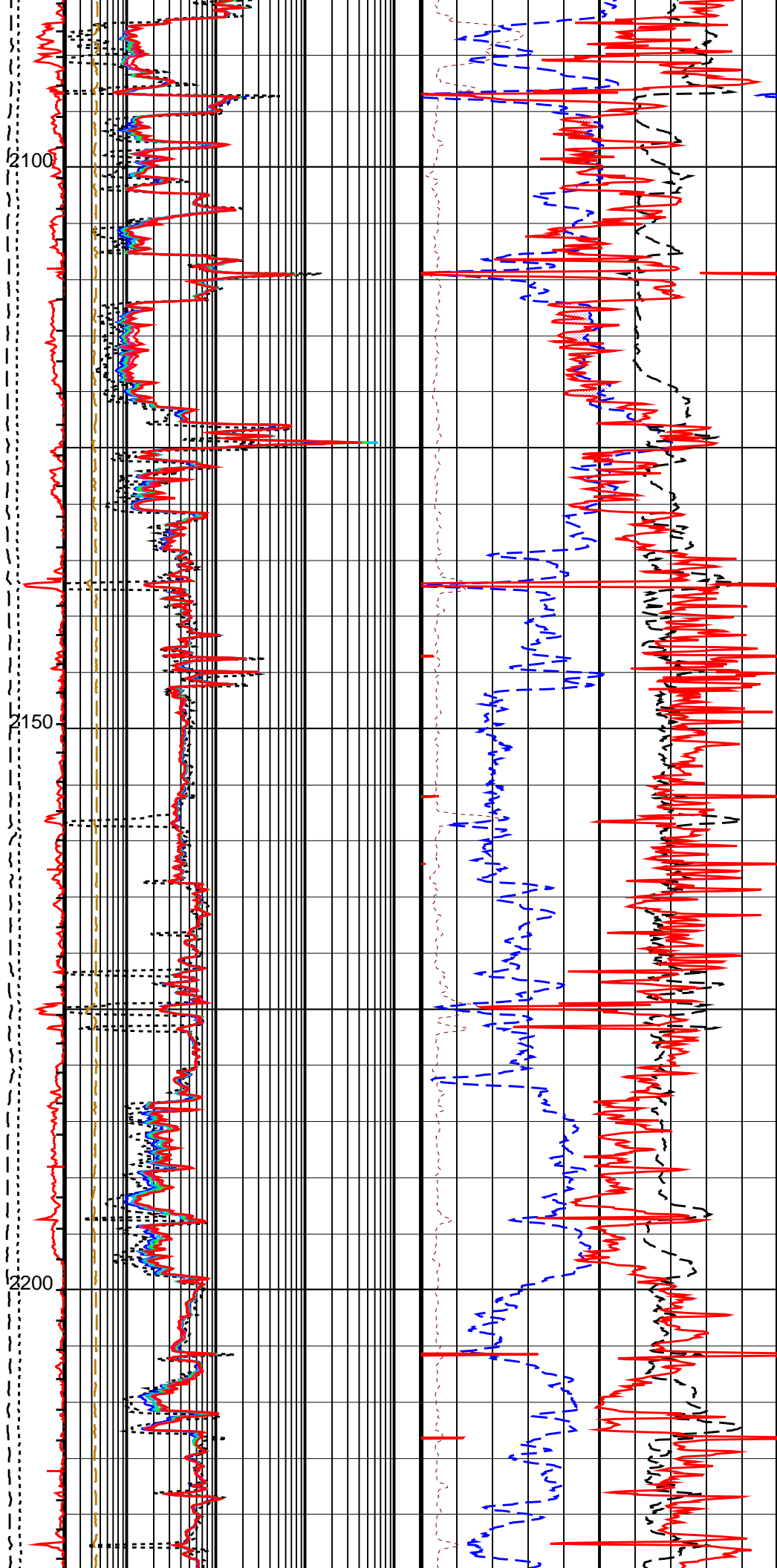
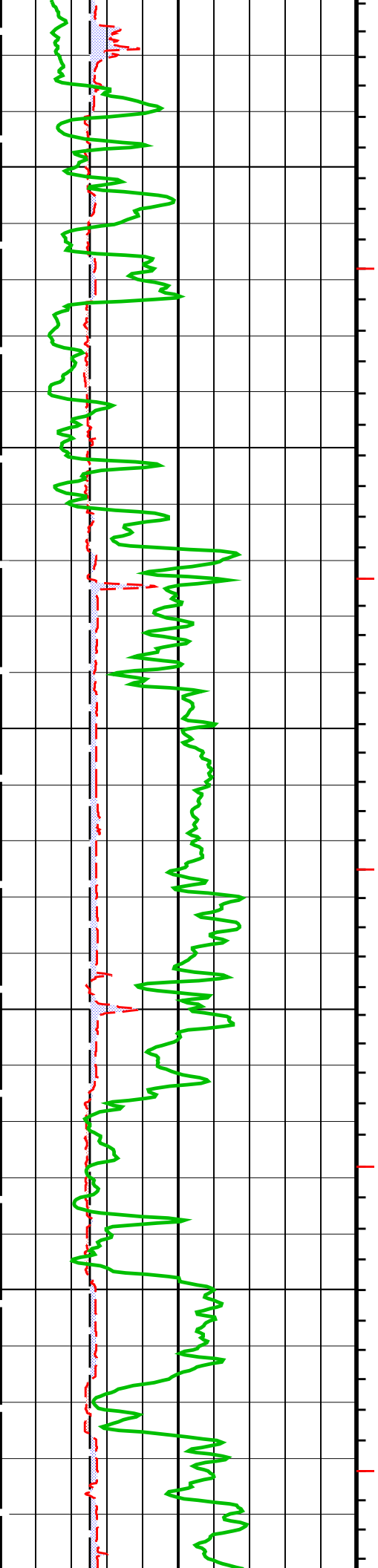


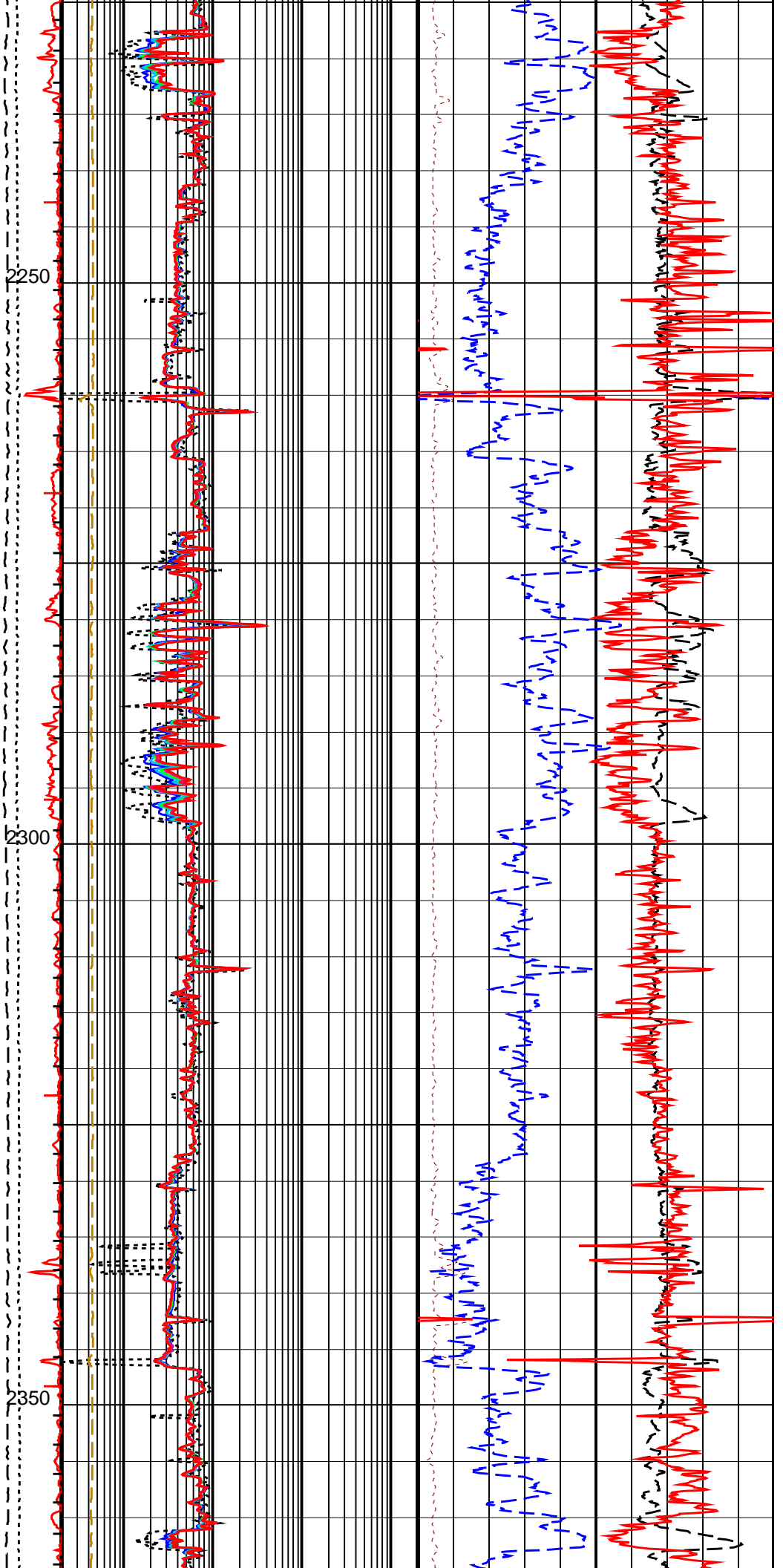
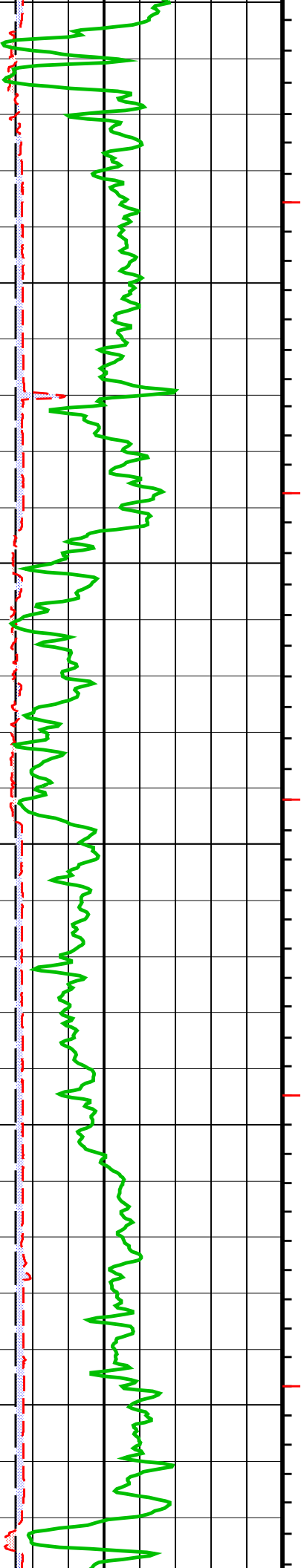


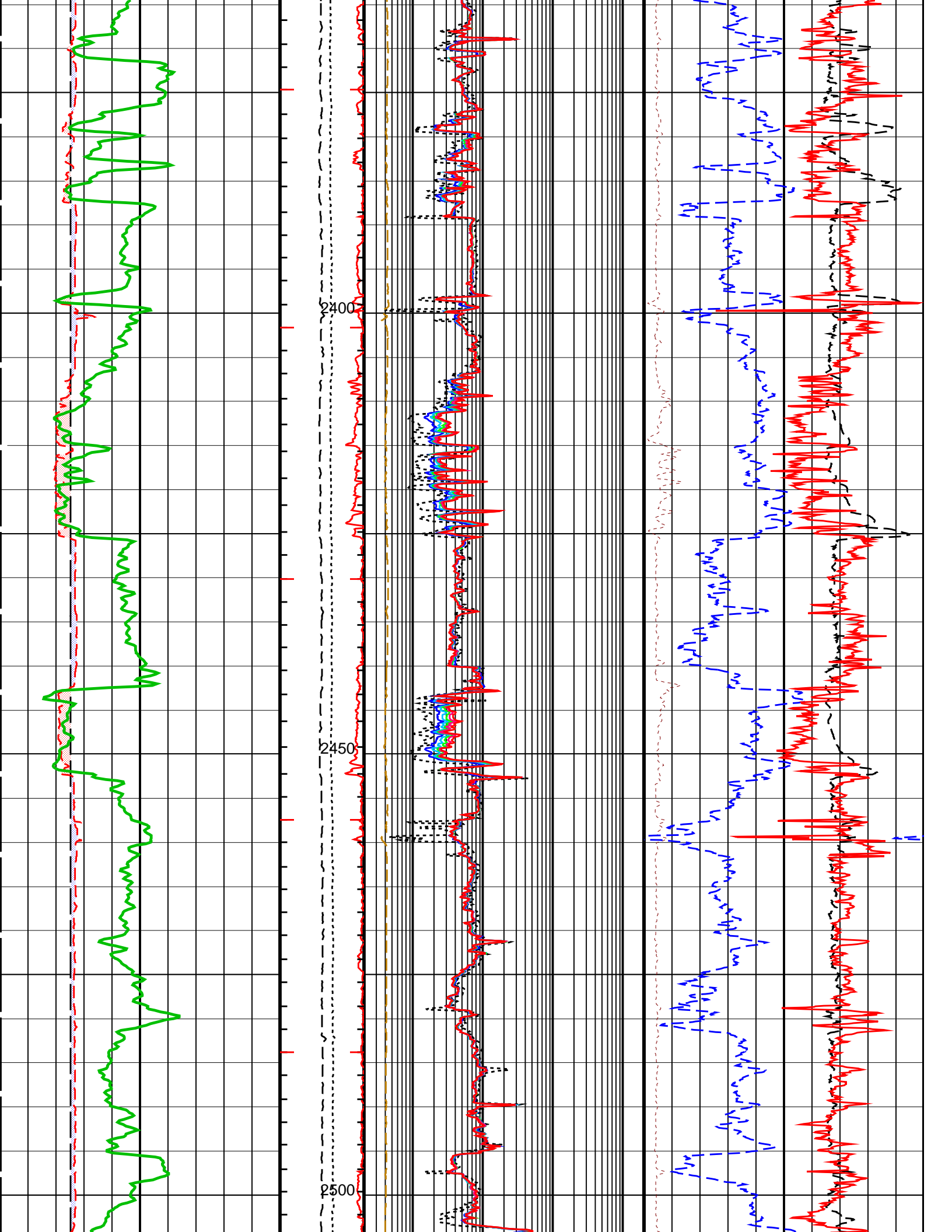


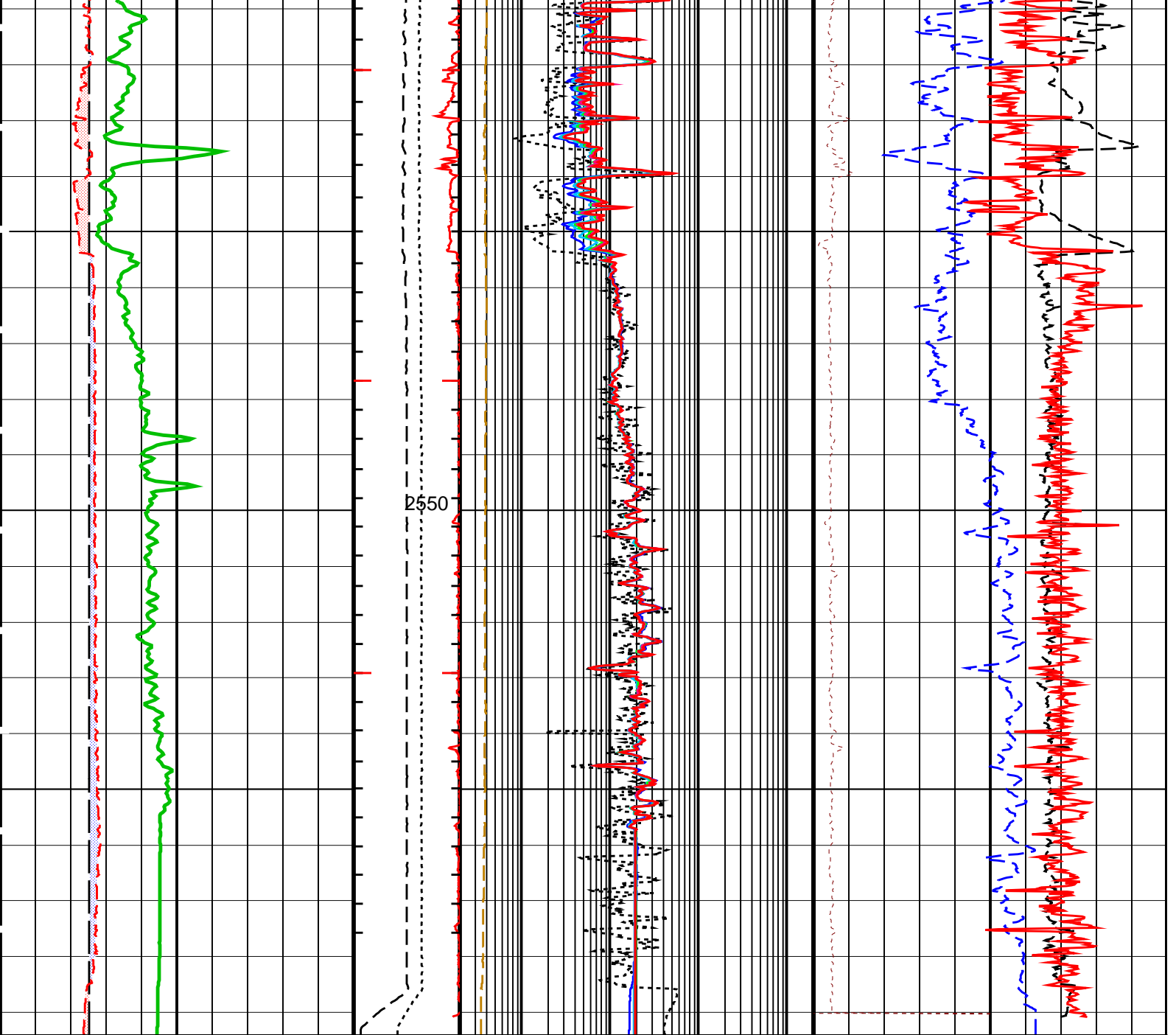












6	Bit Size (BS) (IN)	16	Tension (TENS) (LBF)	0	6000	0.2	H. Res. Invaded Zone Resistivity (RXO8) (OHMM)	2000	Density Correction (HDRA)	-0.05 (G/C3)	0.45	0	H. Res. Formation Pe (PEF8)	(----)	10
---	-----------------------	----	----------------------------	---	------	-----	---	------	------------------------------	--------------	------	---	--------------------------------	--------	----

6	HILT Caliper (HCAL) (IN)	16	H. Res. Density Standoff (DSO8)	2.5 (IN)	0	0.2	HRLT Resistivity 1 (RLA1) (OHMM)	2000	0.45	HiRes TNPH (HTNP) (V/V)	-0.15
---	-----------------------------	----	--	----------	---	-----	-------------------------------------	------	------	----------------------------	-------

Washout From BS to HCAL		H. Res. Resistivity Standoff (RSO8)	2.5 (IN)	0	0.2	HRLT Resistivity 2 (RLA2) (OHMM)	2000	1.85	H. Res. Formation Density (RHO8) (G/C3)	2.85
----------------------------	--	--	----------	---	-----	-------------------------------------	------	------	--	------

Undergauge From HCAL to BS		Calibrated Downhole Force (CDF) (LBF)	0	3000	0.2	HRLT Resistivity 3 (RLA3) (OHMM)	2000	Crossover From RHO8 to HTNP		
-------------------------------	--	---	---	------	-----	-------------------------------------	------	--------------------------------	--	--

HNGS Spectroscopy Gamma Ray

	(HSGR)	
0	(GAPI)	200

0.2	HRLT Resistivity 4 (RLA4) (OHMM)	2000
0.2	HRLT Resistivity 5 (RLA5) (OHMM)	2000
0.02	HRLT Mud Resistivity (RM_HRLT) (OHMM)	200

PIP SUMMARY

- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
 - ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
 - ┆ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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)	106.667	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	YES	
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	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	BARI	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	22.463	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
HRLT-B: High Resolution Laterolog Array - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	106.667	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	1.5	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Eccentered	
SHT	Surface Hole Temperature	22.463	DEGC
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0.00633752	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	106.667	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	INTERNAL	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG

GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.0278811	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	INTERNAL	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	0.4	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	22.463	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.969811	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.965239	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	106.667	DEGC
FCD	Future Casing (Outer) Diameter	0	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	22.463	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	2590.63	M
System and Miscellaneous			
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	69300.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	36.00	LB/F
DFD	Drilling Fluid Density	1.10	G/C3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	23.20	DEGC
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.0797	OHMM
TD	Total Depth	2590.63	M

Format: Combo_500_HiRes Vertical Scale: 1:500 Graphics File Created: 13-Jun-2008 13:05

OP System Version: 15C0-309
MCM

HILTB-FTB	SRPC-3582-Q1_2008_OP15_b	ECS-A	SPC-3355-NUCL_b
ECC-B	15C0-309	HRLT-B	15C0-309
HNGC-BA	15C0-309	HNGS-BA	SPC-3355-NUCL_b
DTC-H	15C0-309		

Input DLIS Files

DEFAULT	MERGE_HRLA_010	FN:1	PRODUCER	13-Jun-2008 12:57	2597.0 M	669.8 M
---------	----------------	------	----------	-------------------	----------	---------

Output DLIS Files

DEFAULT	TLD_MCFL_CNL_ECS_012PUP	FN:10	PRODUCER	13-Jun-2008 13:05		
---------	-------------------------	-------	----------	-------------------	--	--