

DISCLAIMER
 THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 Hole drilled with APC/XCB Assembly at 11-7/16" BS
 Logging conducted through LFV using LFV Actuator (Go Devil) attached to logging string
 Drilled TD was 2112.75mbrf
 Drill Pipe set at 1679.4mbrf for logging.
 Tcombo run with upper part eccentralized, lower centralized with MCD tools. See toolsketch.
 Fluid type was sea water.
 Depth recorded from drill floor; logs presented as-logged without depth corrections or shifts, as per client instructions.
 All logs presented in wireline measured depth below rig floor (MDBRF).
 Caliper opened during upward passes; Caliper unable to close, so open in pipe until surface, but still reading accurately.
 Hole size corrections made using caliper measurements for upward passes.
 Active Heave Compensator (AHC) used in open-hole; switched off prior to re-enting pipe.
 Mud Temperature recorded using LEH-MT for QUALITATIVE analysis of borehole fluid temperature.
 Logs spliced from two intervals due to the caliper failing to close after the repeat pass.
 First interval from 2097m to 1990m; second from 1990m to 1590mbsf resulting in invalid curves as follows:
 HLDS (Density, PEF, Caliper) from 1990m to 1969mbrf is invalid
 HRLS from 1990m to 1979mbrf; MSS from 1990m to 1986mbrf invalid.
 HNGS invalide from 1990m to 1962m but will be run again with second run as scheduled.

REMARKS: RUN NUMBER 2

RUN 1

SERVICE ORDER #: _____
 PROGRAM VERSION: 19C0-187
 FLUID LEVEL: _____

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #: _____
 PROGRAM VERSION: _____
 FLUID LEVEL: _____

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION




RUN 1

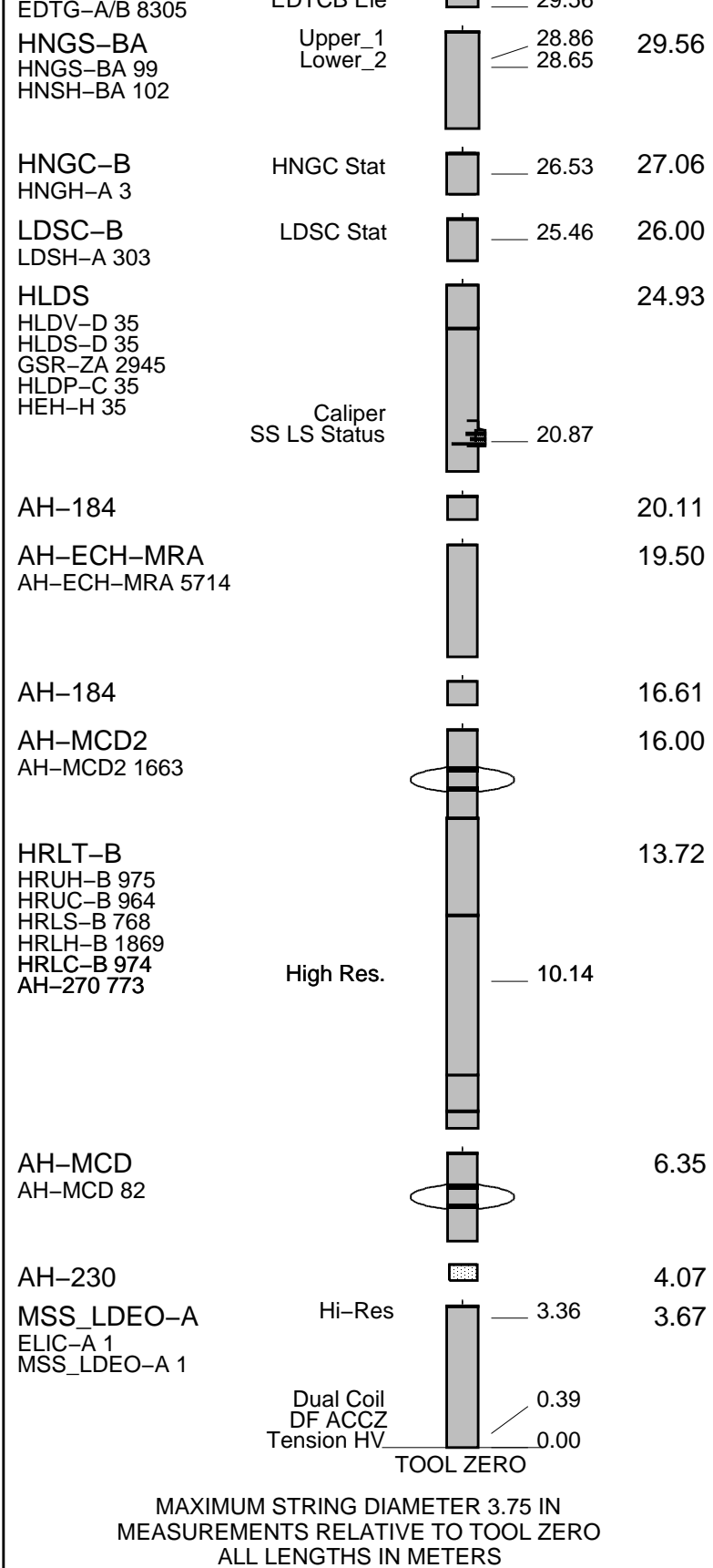
SURFACE EQUIPMENT

GSR-U 6098
 WITM (EDTS)-A 1

RUN 2

DOWNHOLE EQUIPMENT

LEH-MT			32.94
LEH-MT 301	MDSB_EDTC		
AH-369	Mud Tempe		31.54
	CTEM		30.48
EDTC-B	Gamma Ray		29.91
EDTH-B 8303	EFTB DIAG		31.54
EDTC-B 8317	TelStatus		
	EDTCB File		29.56



Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation

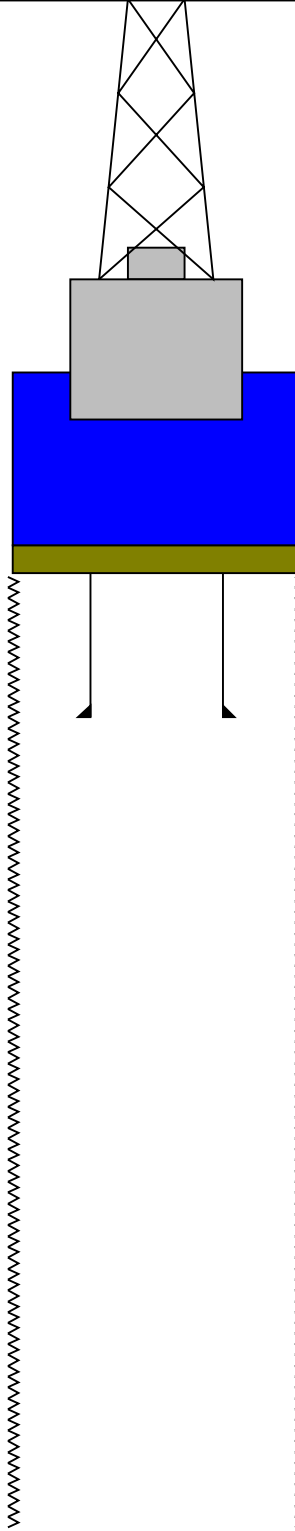
Derrick Floor Elevation

Mean Sea Level

-11.0

-11.0

0.0



1604.4

11.875

4.000

Sea Floor

1679.4

5.500

4.000

Bit Depth

2112.8

11.875

TD - Driller



**Main Pass
1:200 Scale, Spliced**

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 385, Site U1545A

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08	2096.3 M	1589.2 M
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08	2096.3 M	1589.2 M

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
 0 (GAPI) 150

Area1
 From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
 0 (GAPI) 150

HNGS Borehole Potassium (HBHK)
 -0.01 (V/V) 0.01

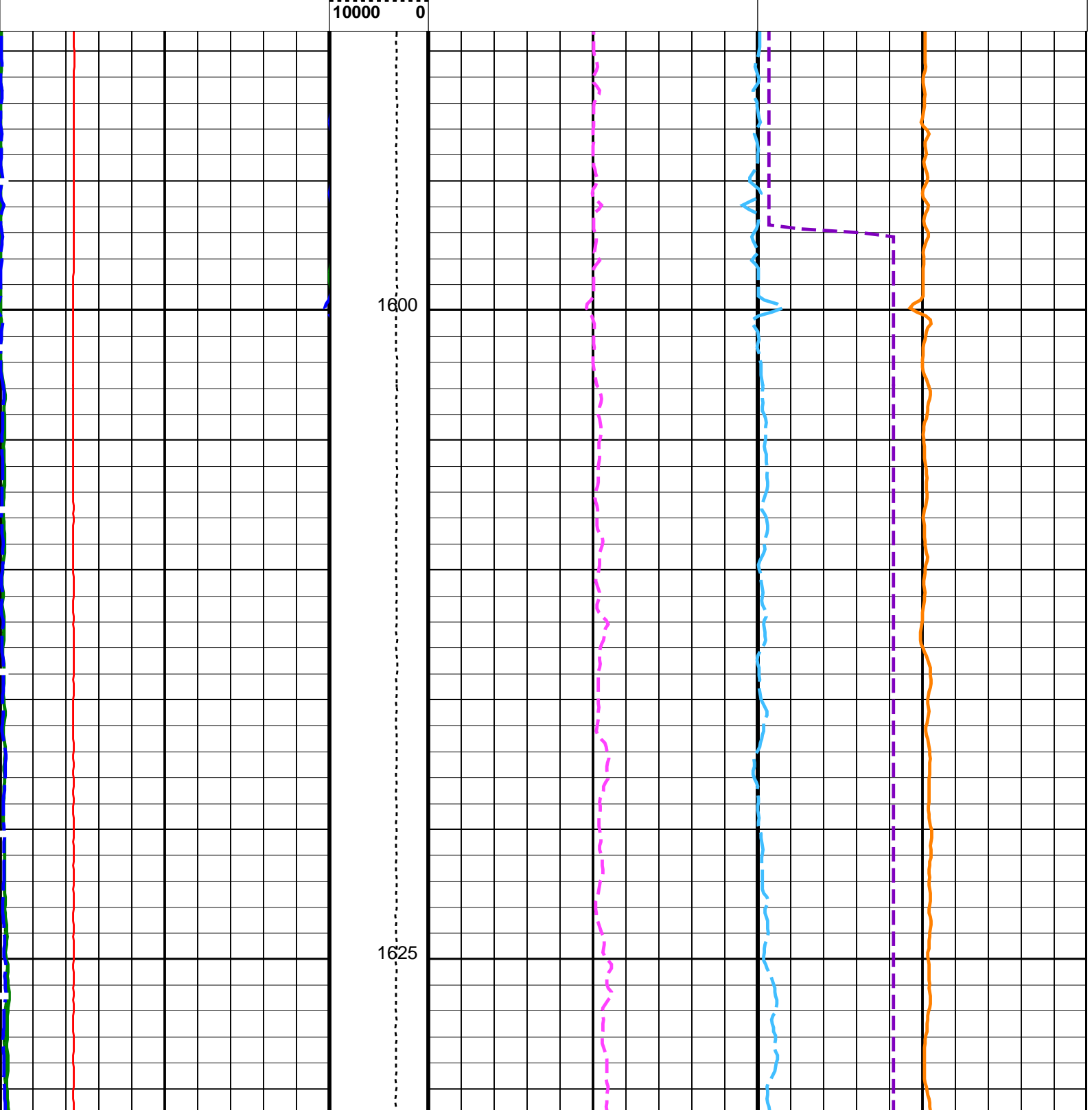
HNGS Uranium (HURA)
 -5 (PPM) 5

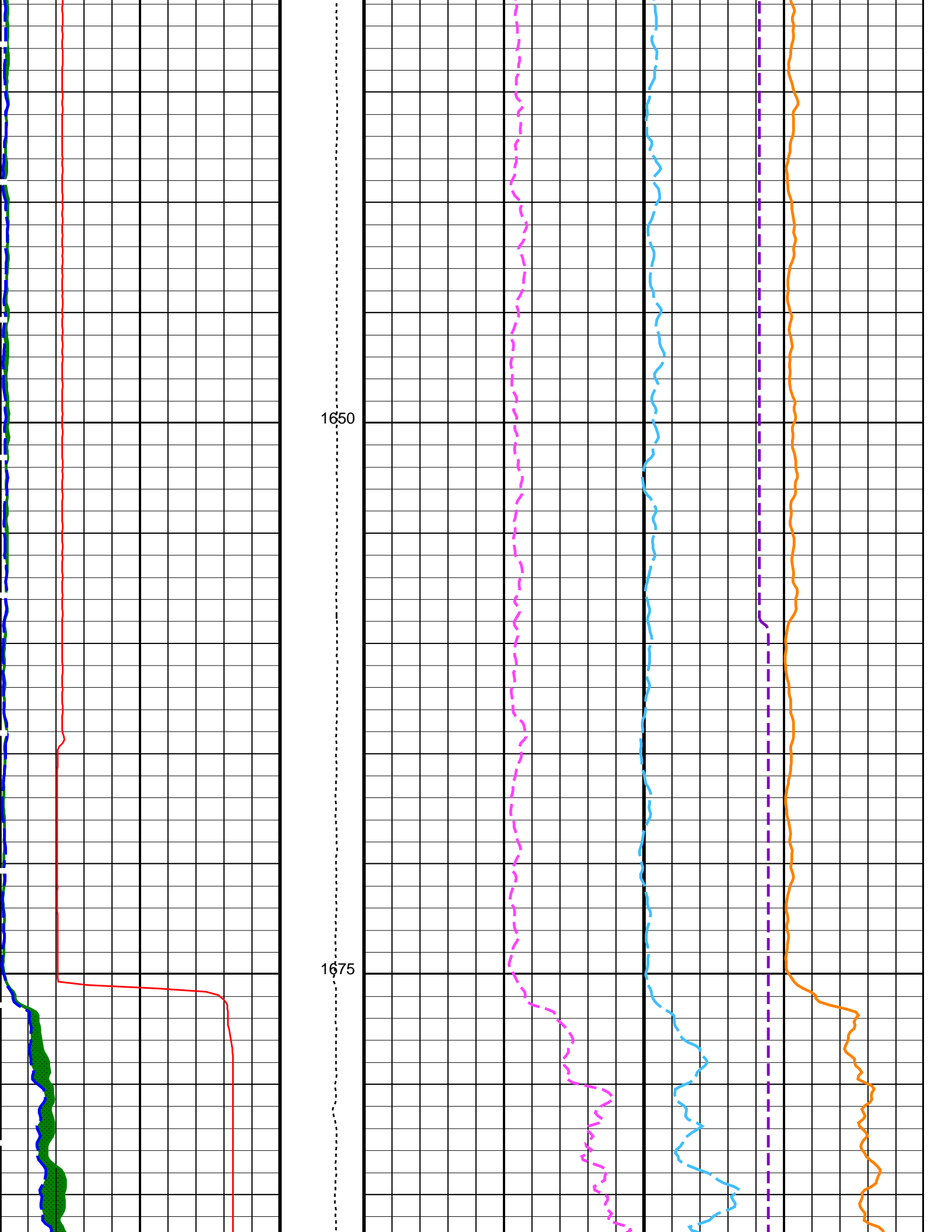
HLDS Caliper (LCAL)
 0 (IN) 20

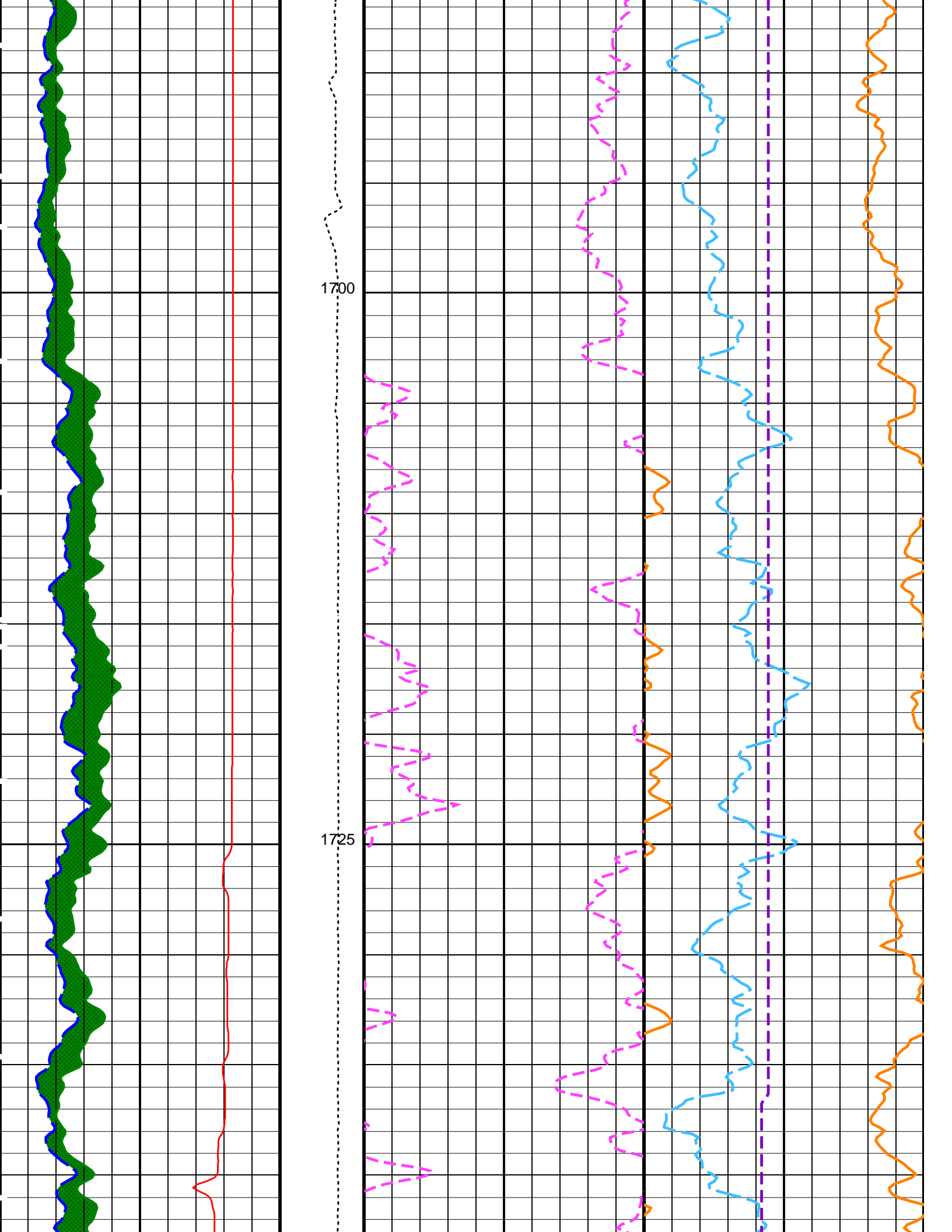
Tension (TENS) (LBF)

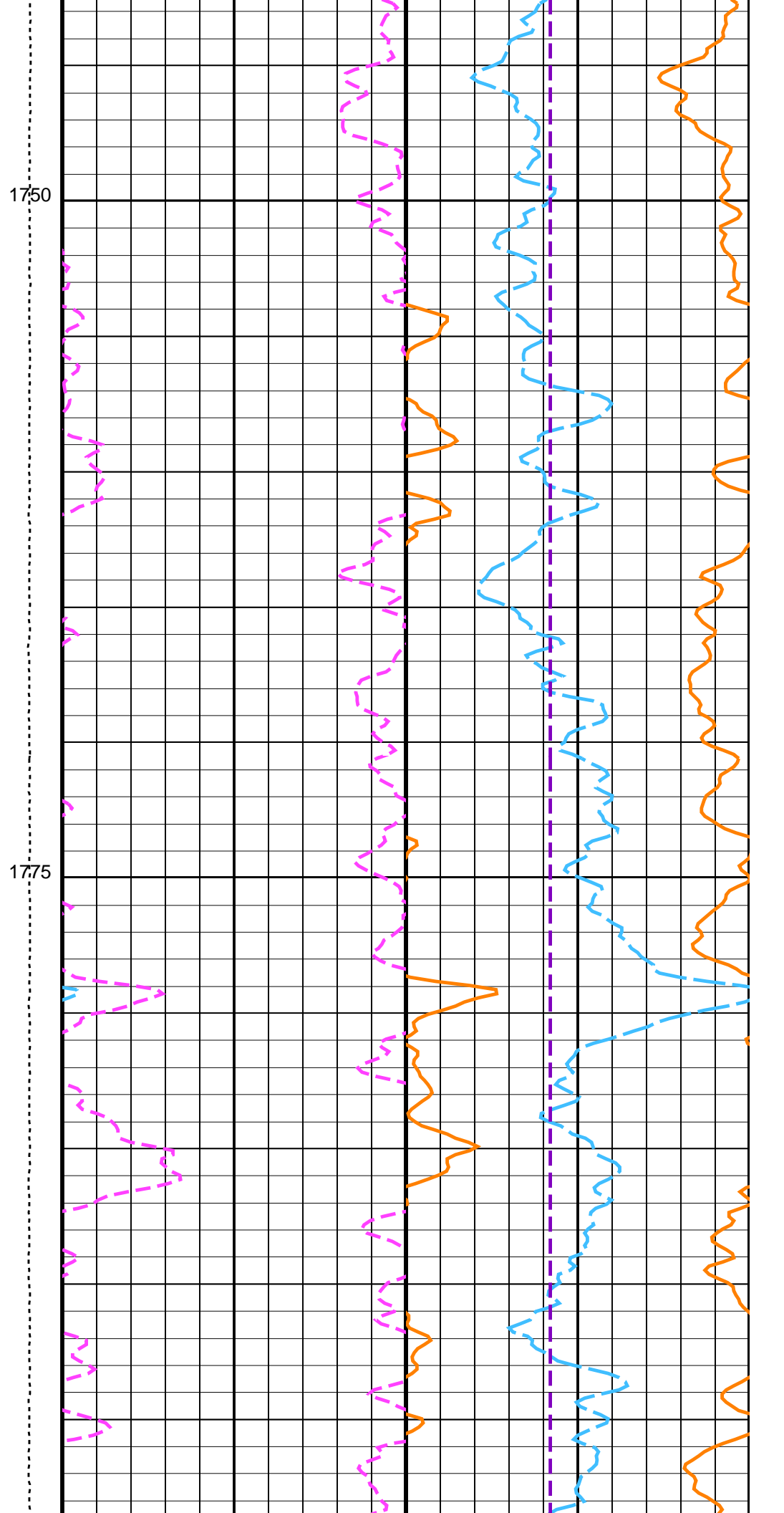
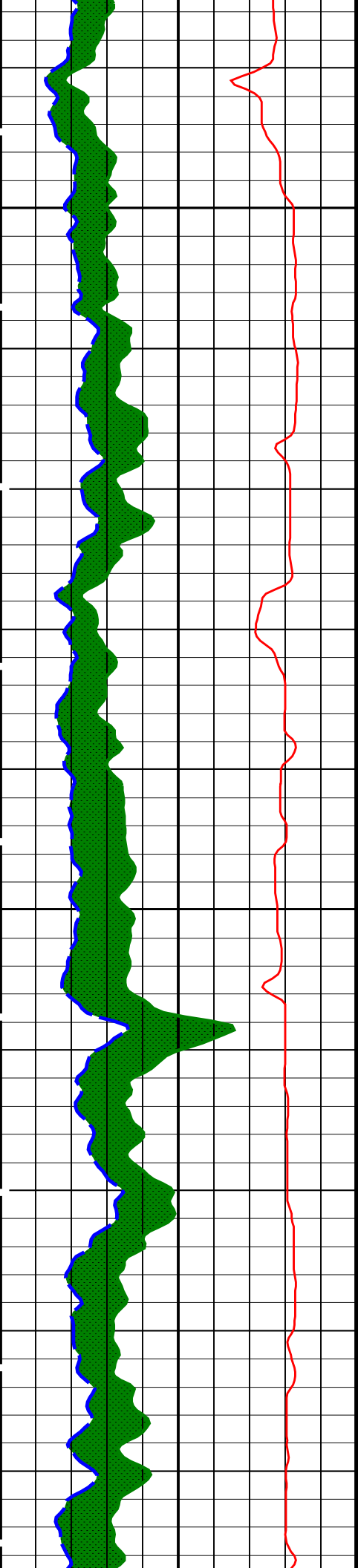
HNGS Thorium (HTHO)
 -5 (PPM) 5

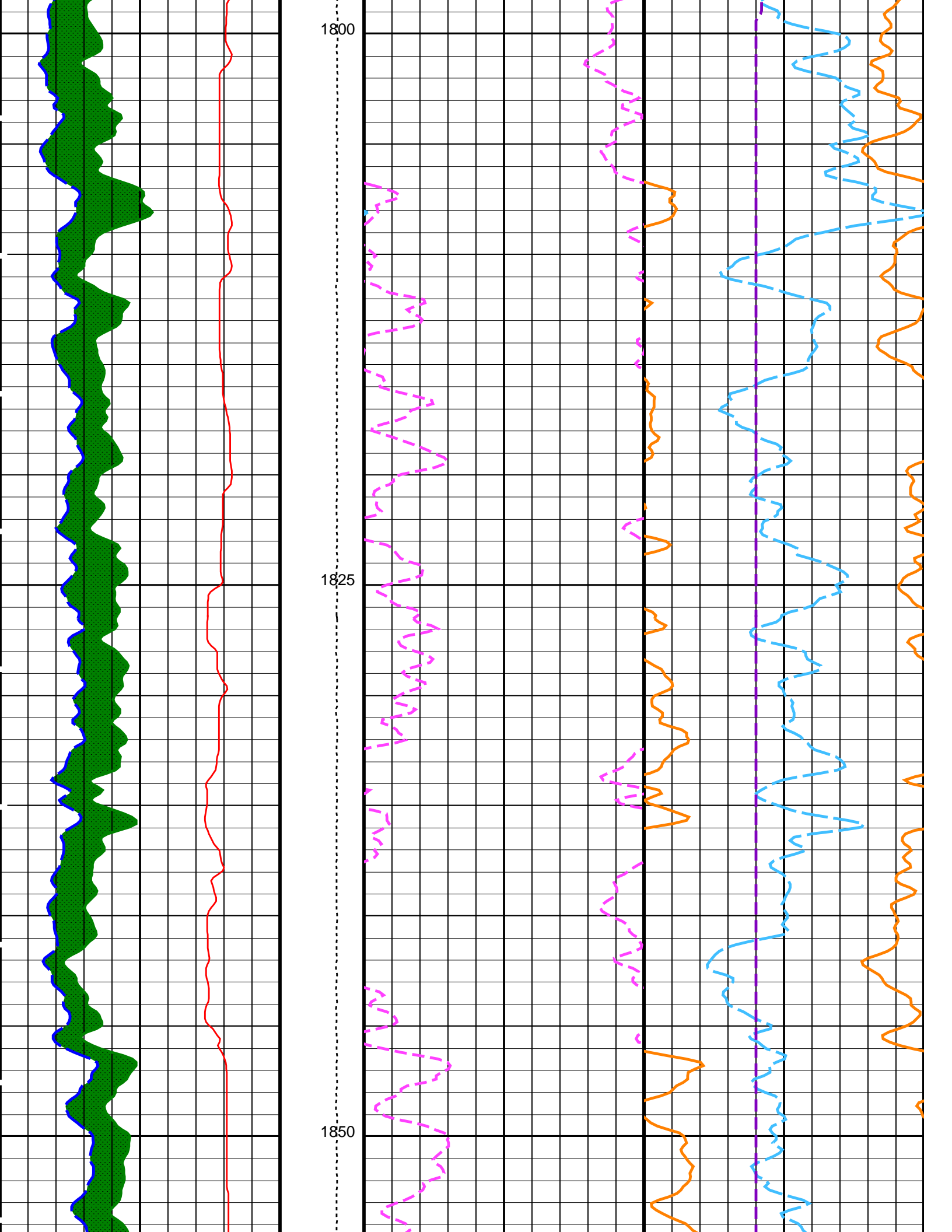
HNGS Potassium (HFK)
 -0.01 (V/V) 0.01

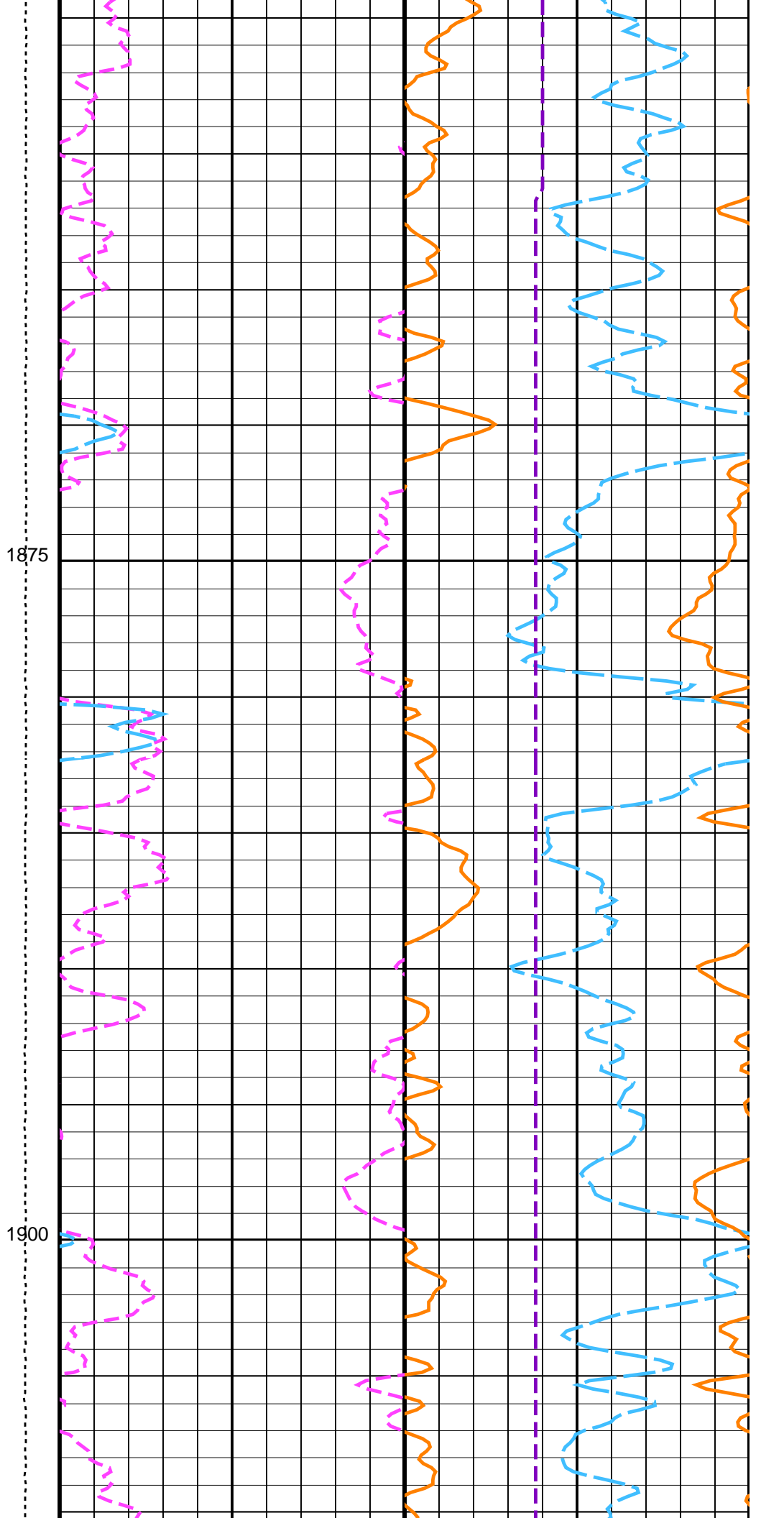
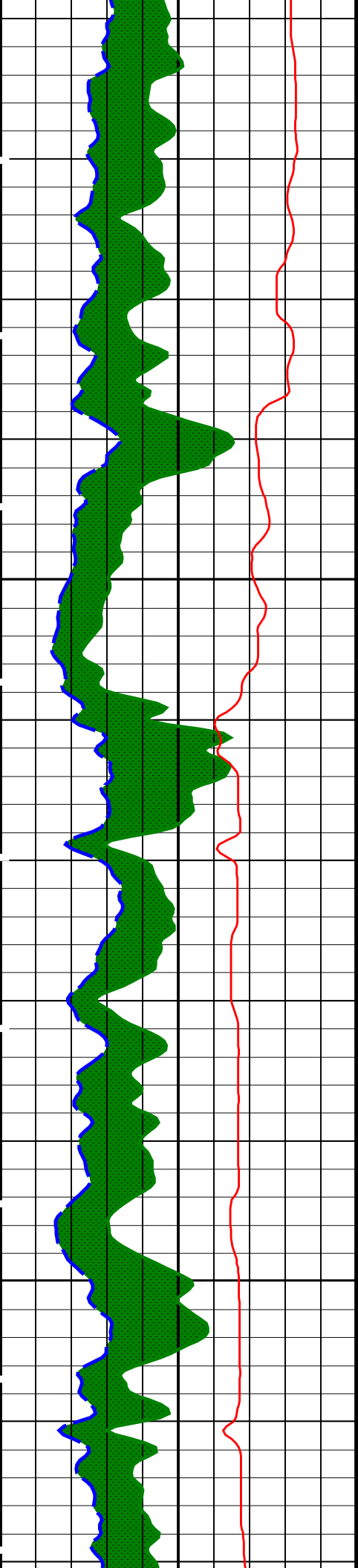


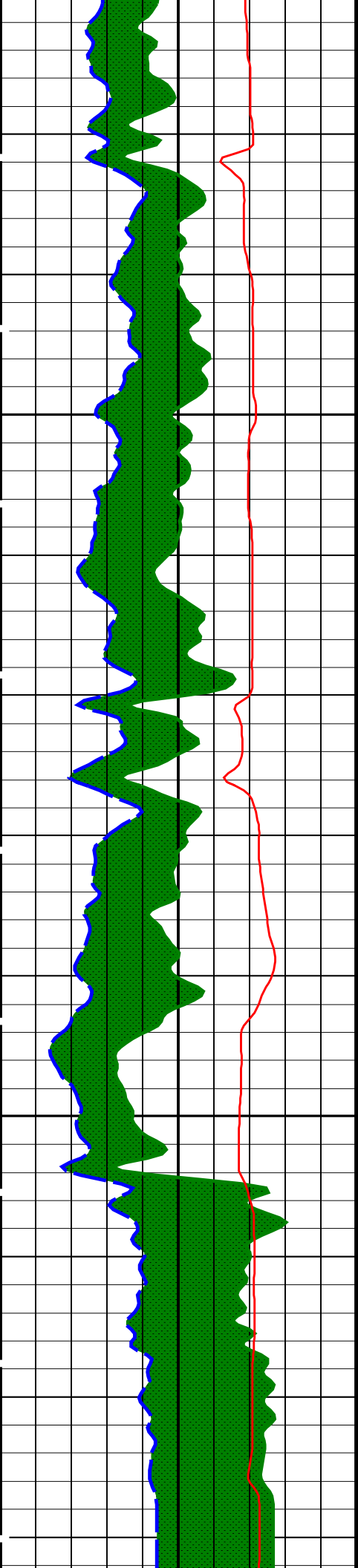






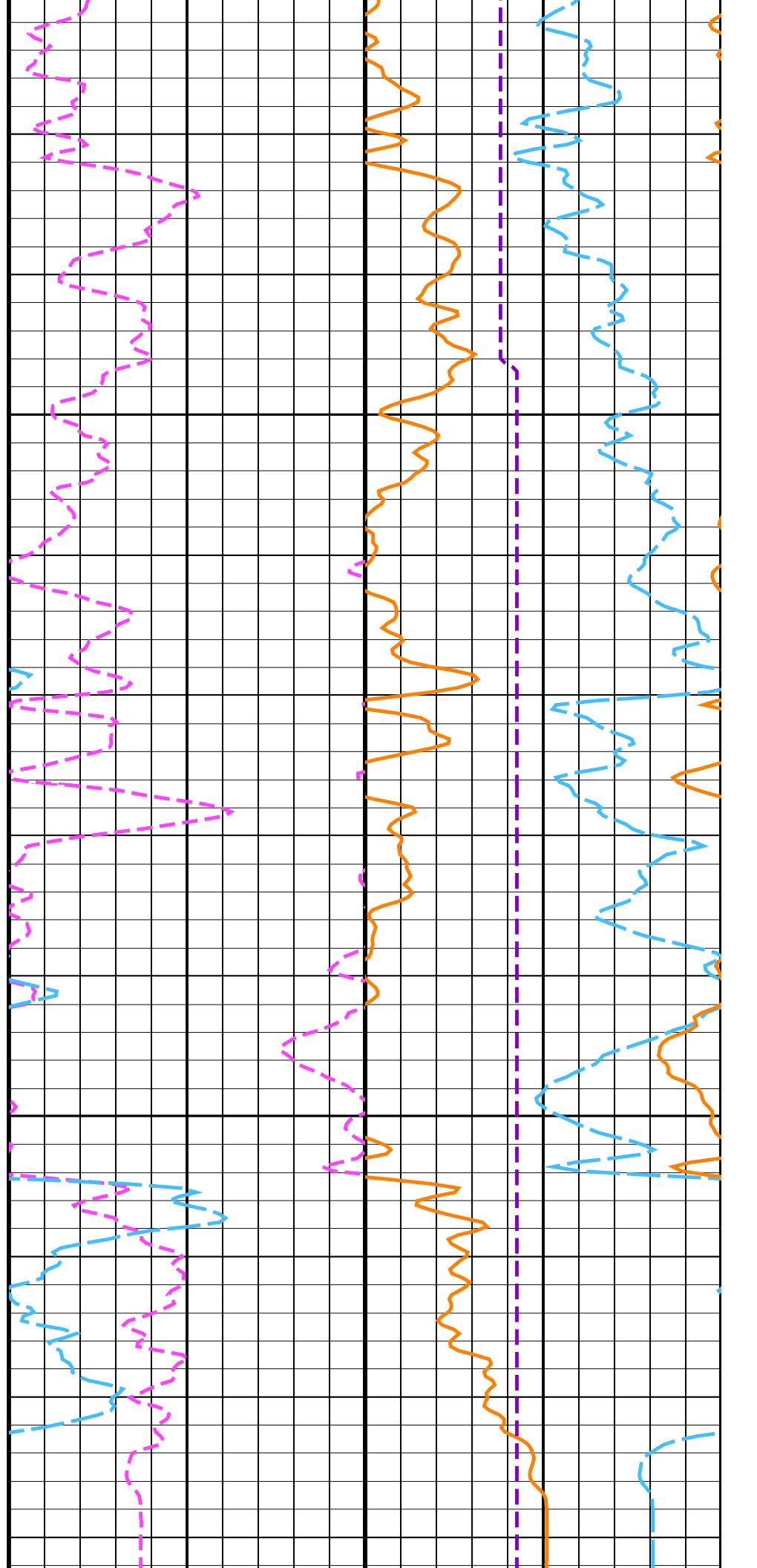


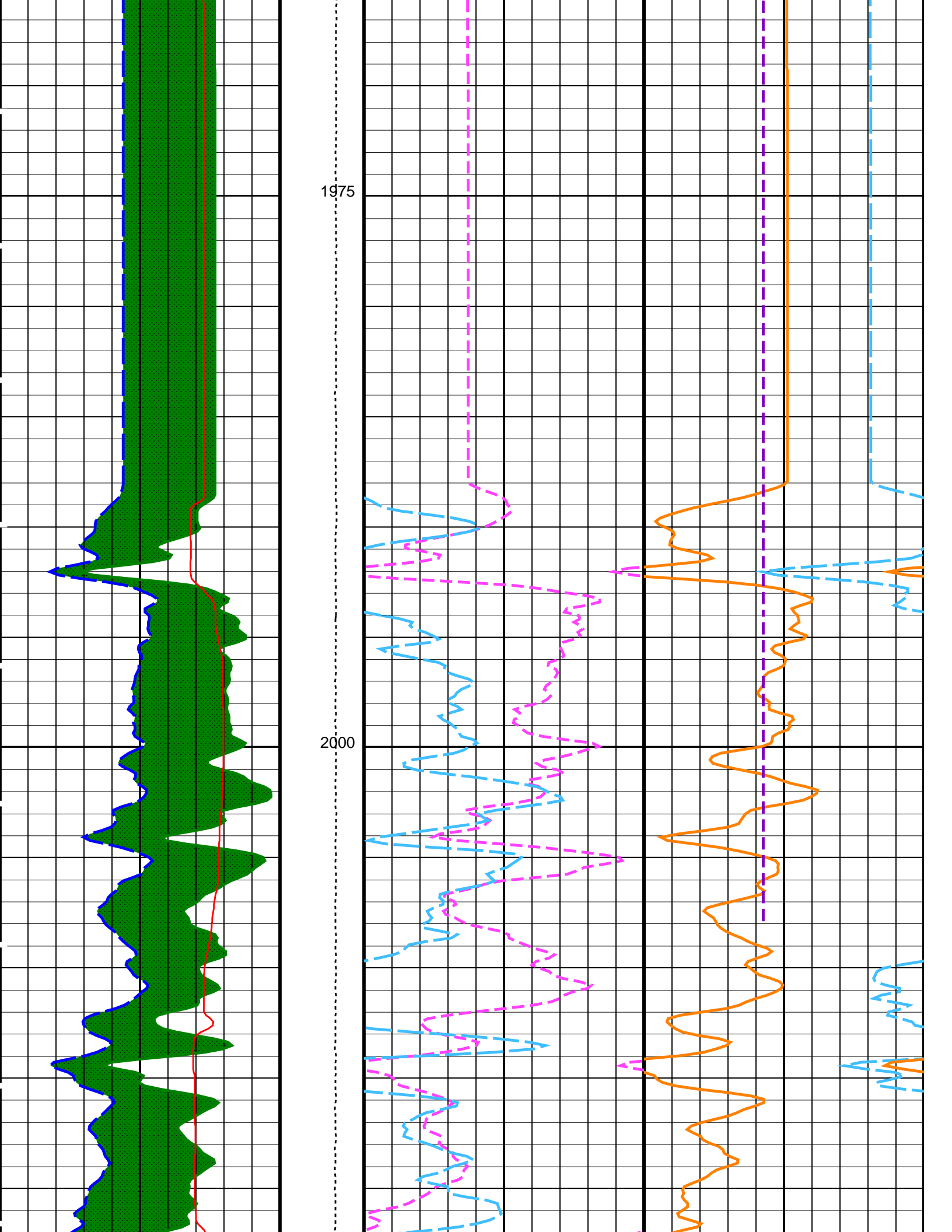


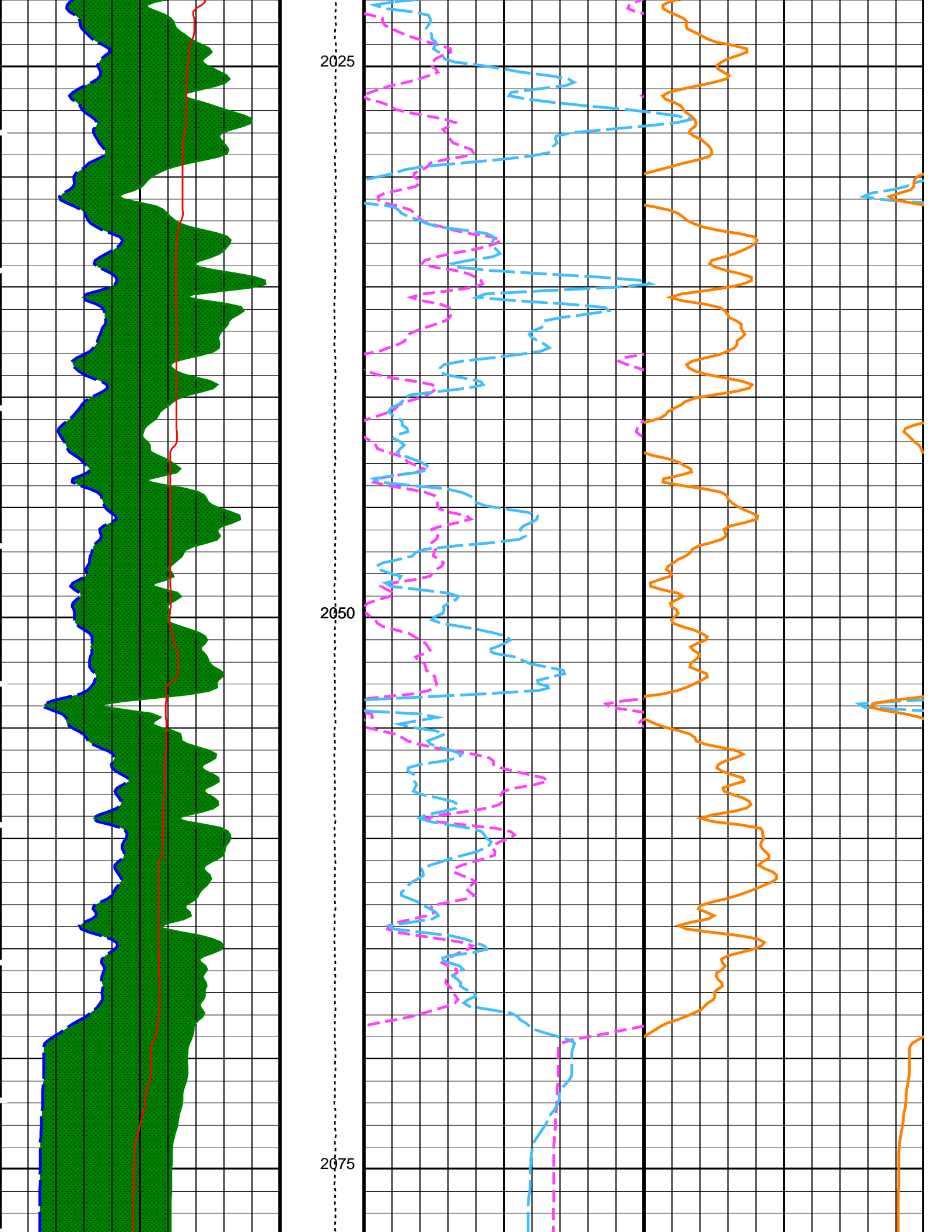


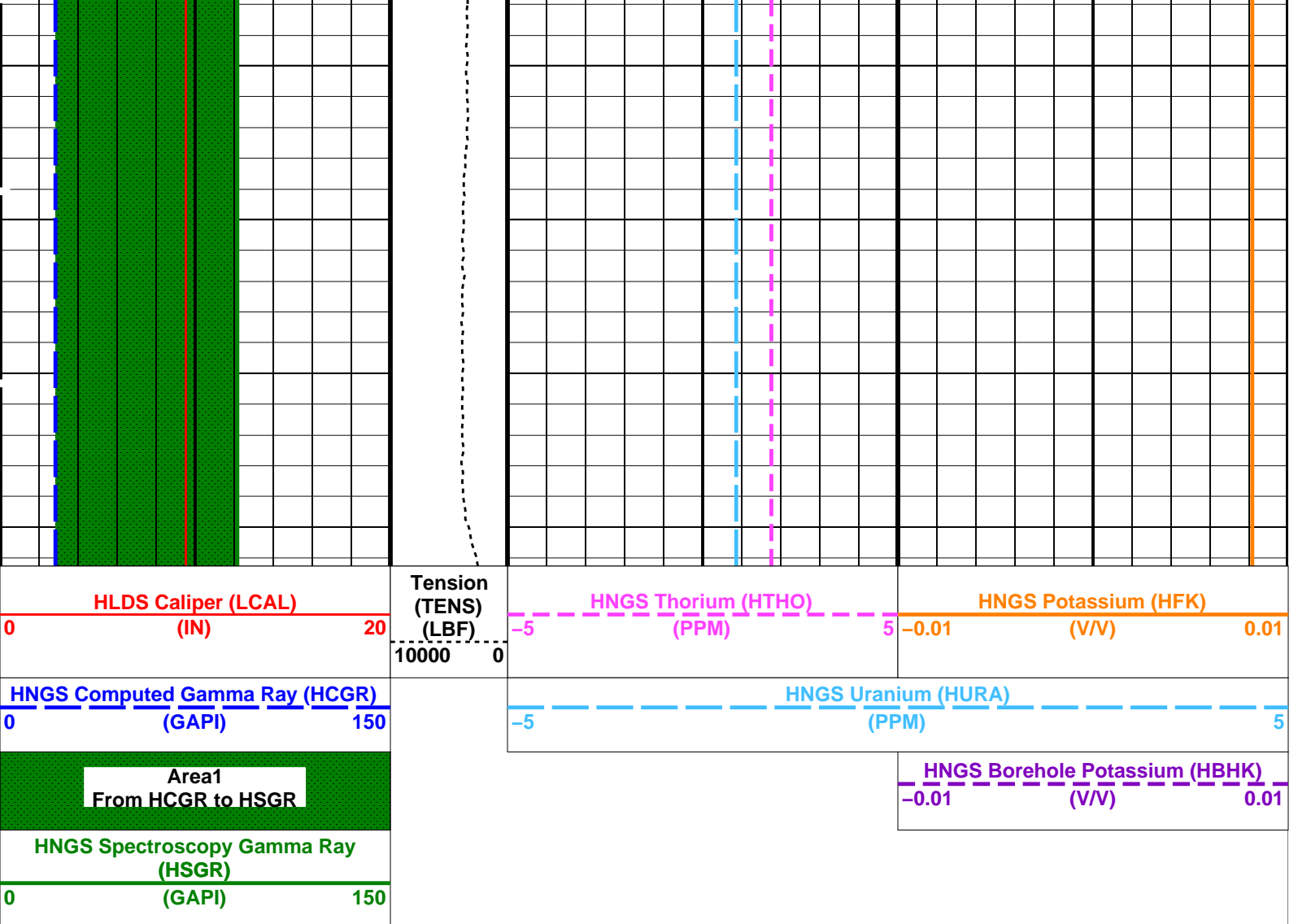
1925

1950









PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
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
BHS	Borehole Status	OPEN
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	NONE
GCSE	Generalized Caliper Selection	LCAL
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00175334
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	CENT
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01115
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03111
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL

BS Bit Size
DFD Drilling Fluid Density
DO Depth Offset for Playback
PP Playback Processing

11.438 IN
1.26 G/C3
0.0 M
RECOMPUTE

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 30-Sep-2019 18:08

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08		
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08		

Company: International Ocean Discovery Program Well: Expedition 385, Site U1545A

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

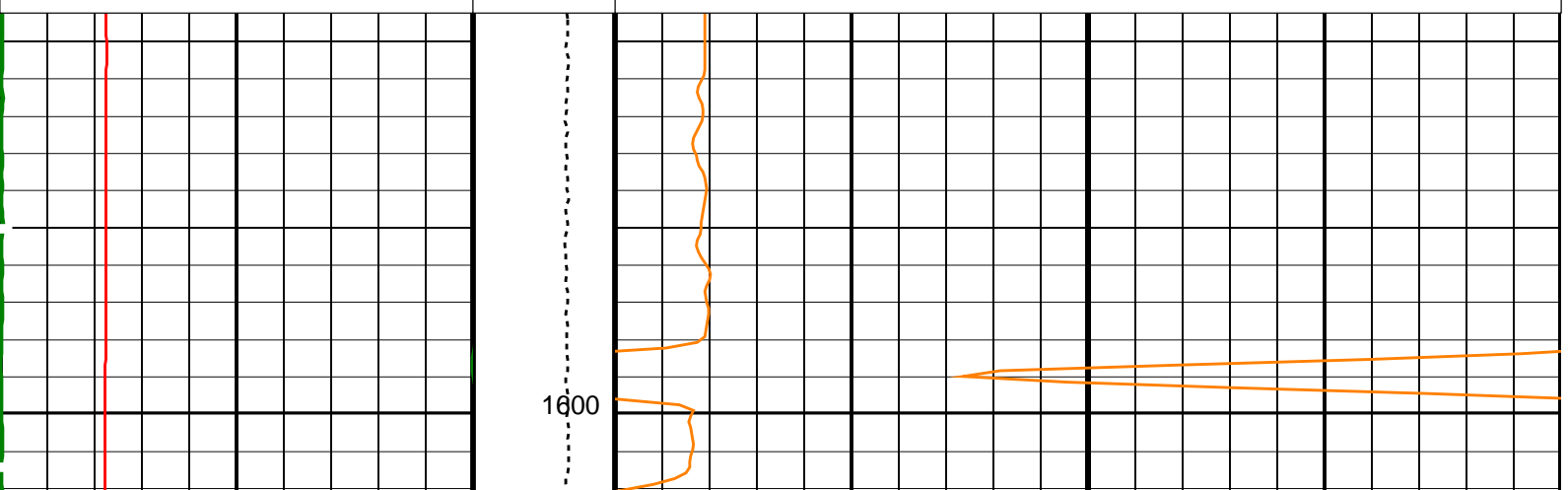
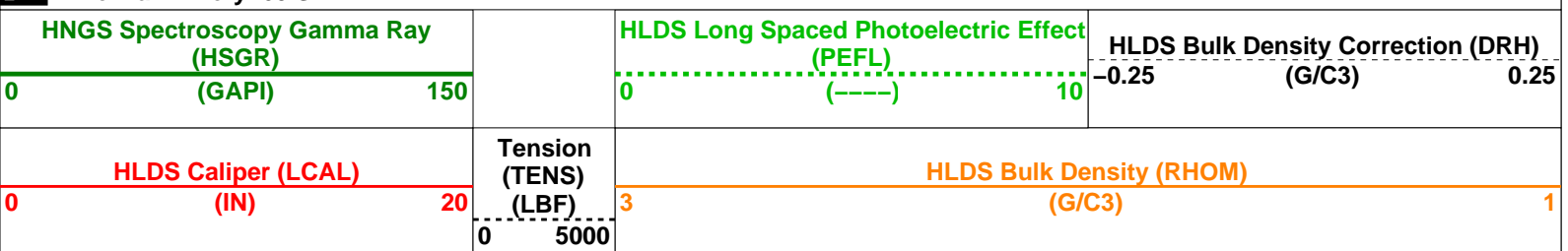
DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08	2096.3 M	1589.2 M
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08	2096.3 M	1589.2 M

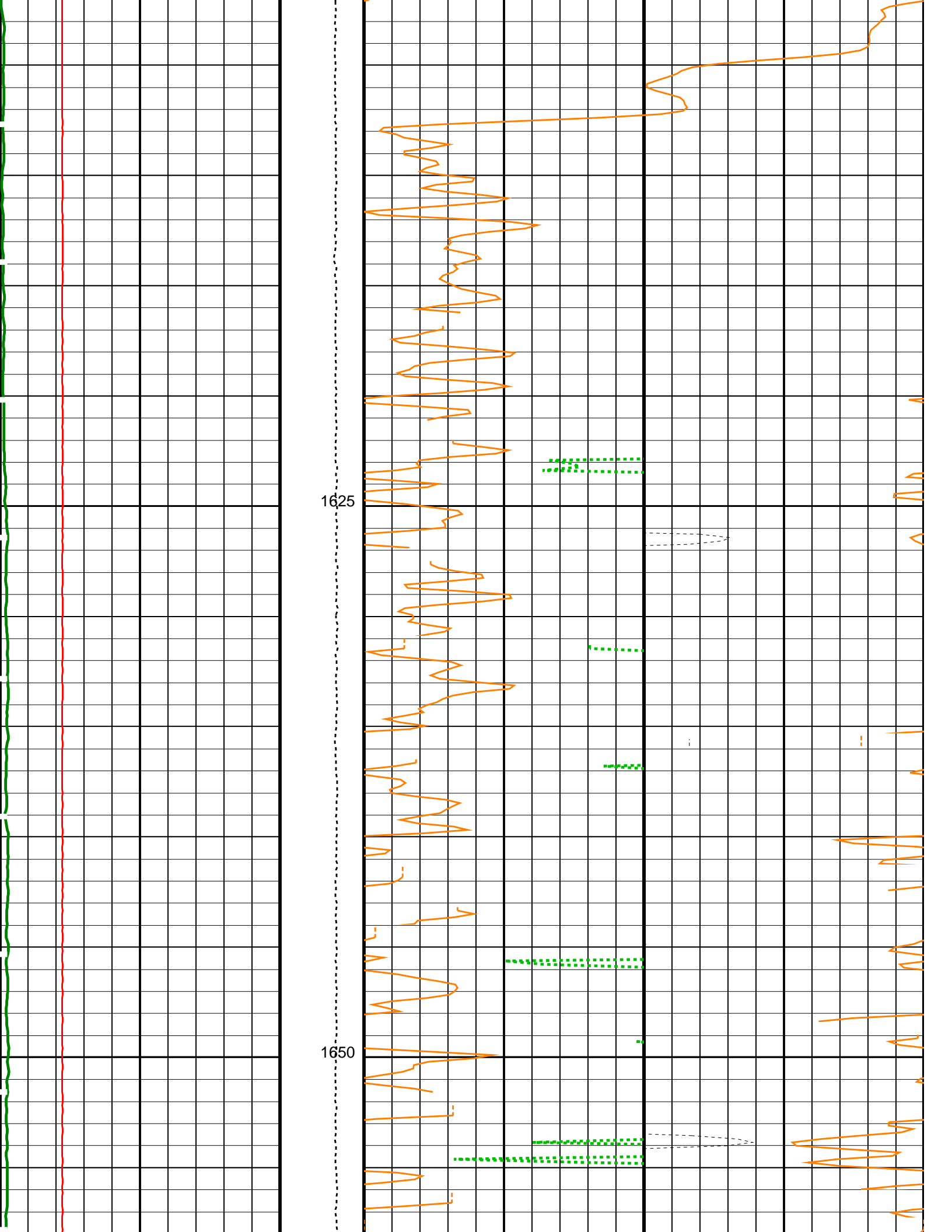
OP System Version: 19C0-187

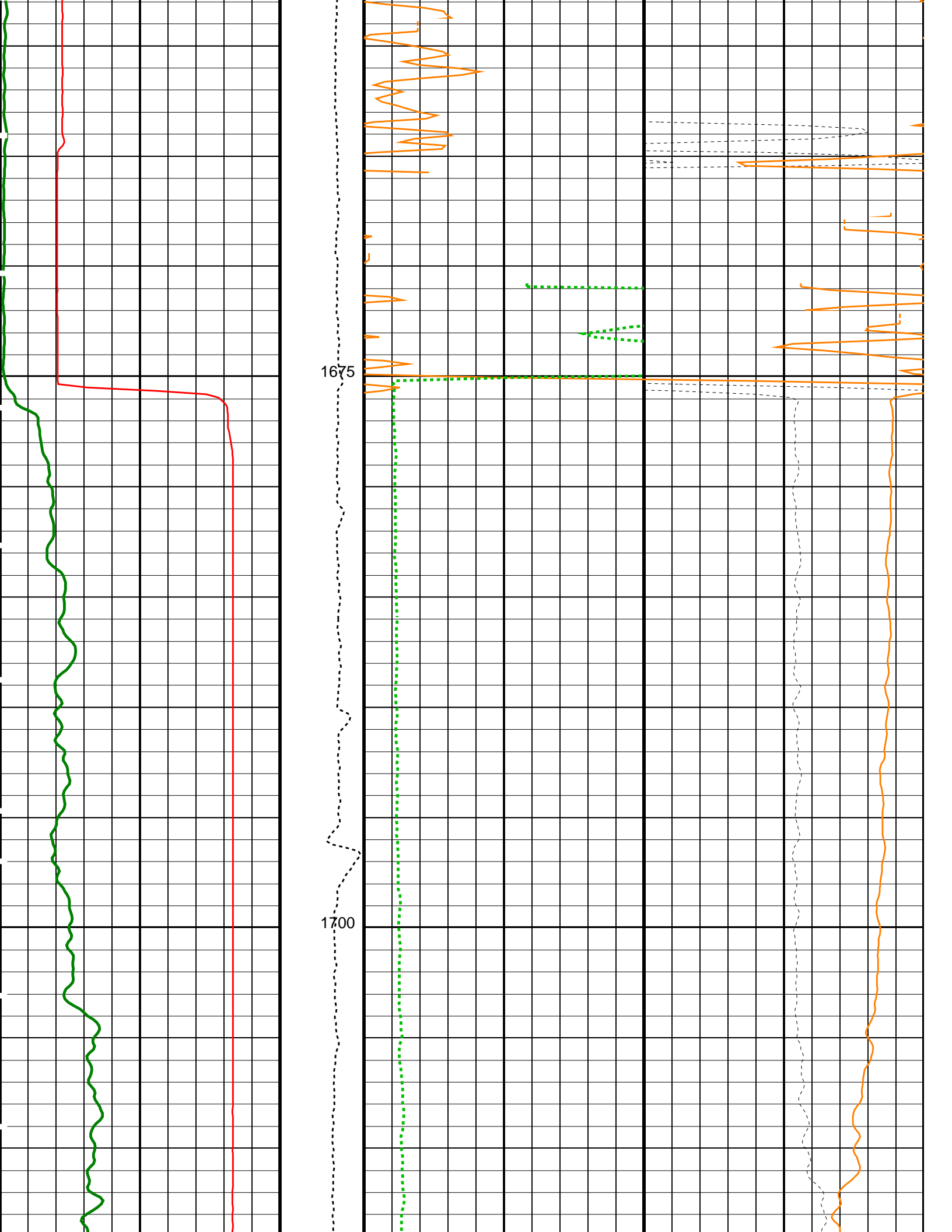
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

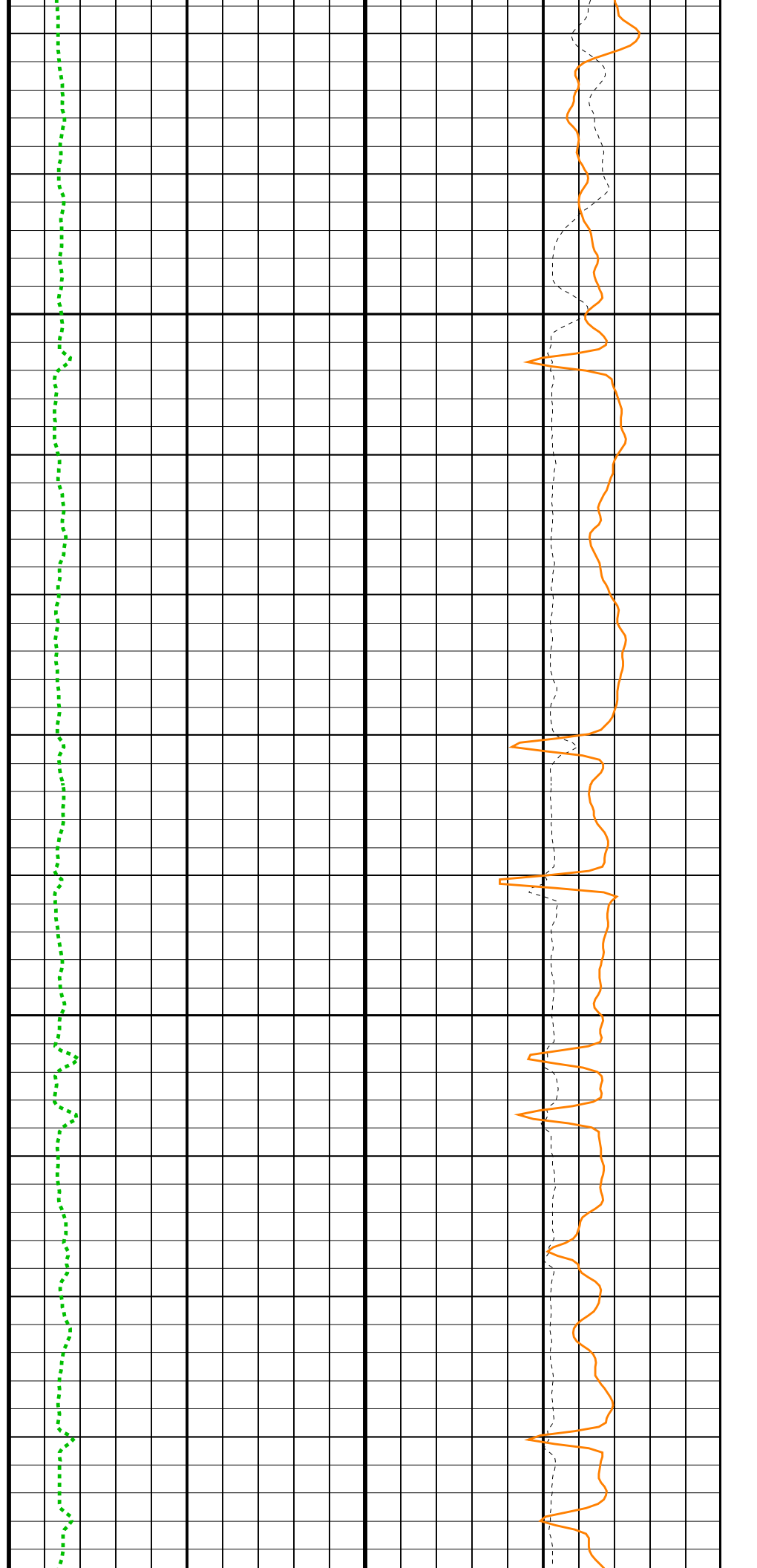
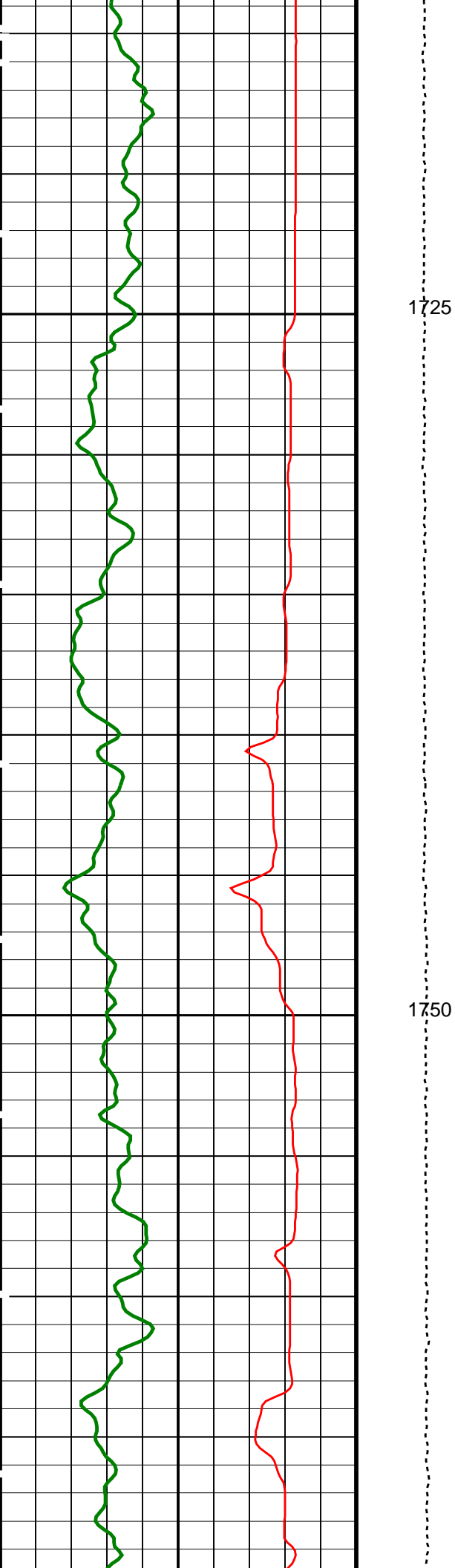
PIP SUMMARY

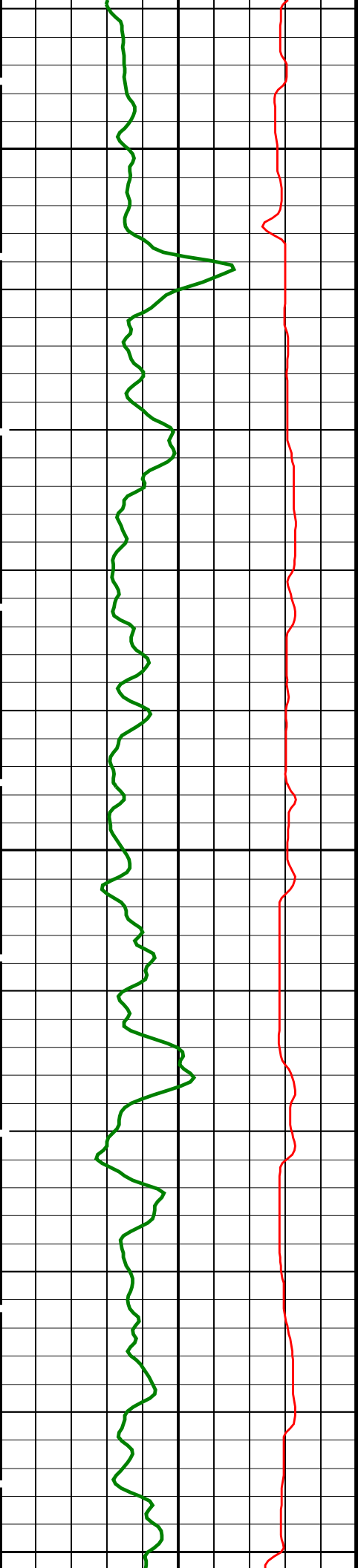
Time Mark Every 60 S







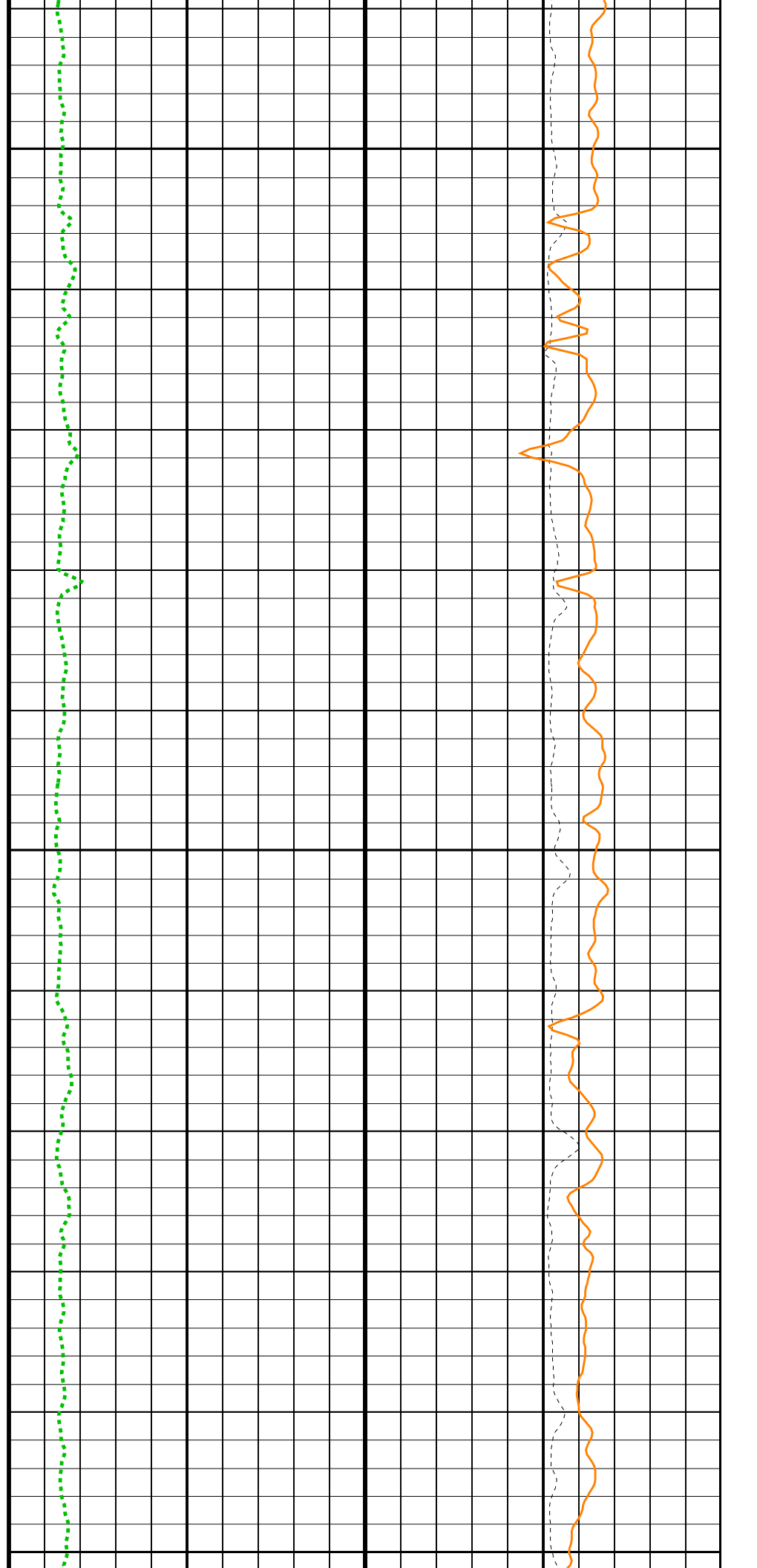


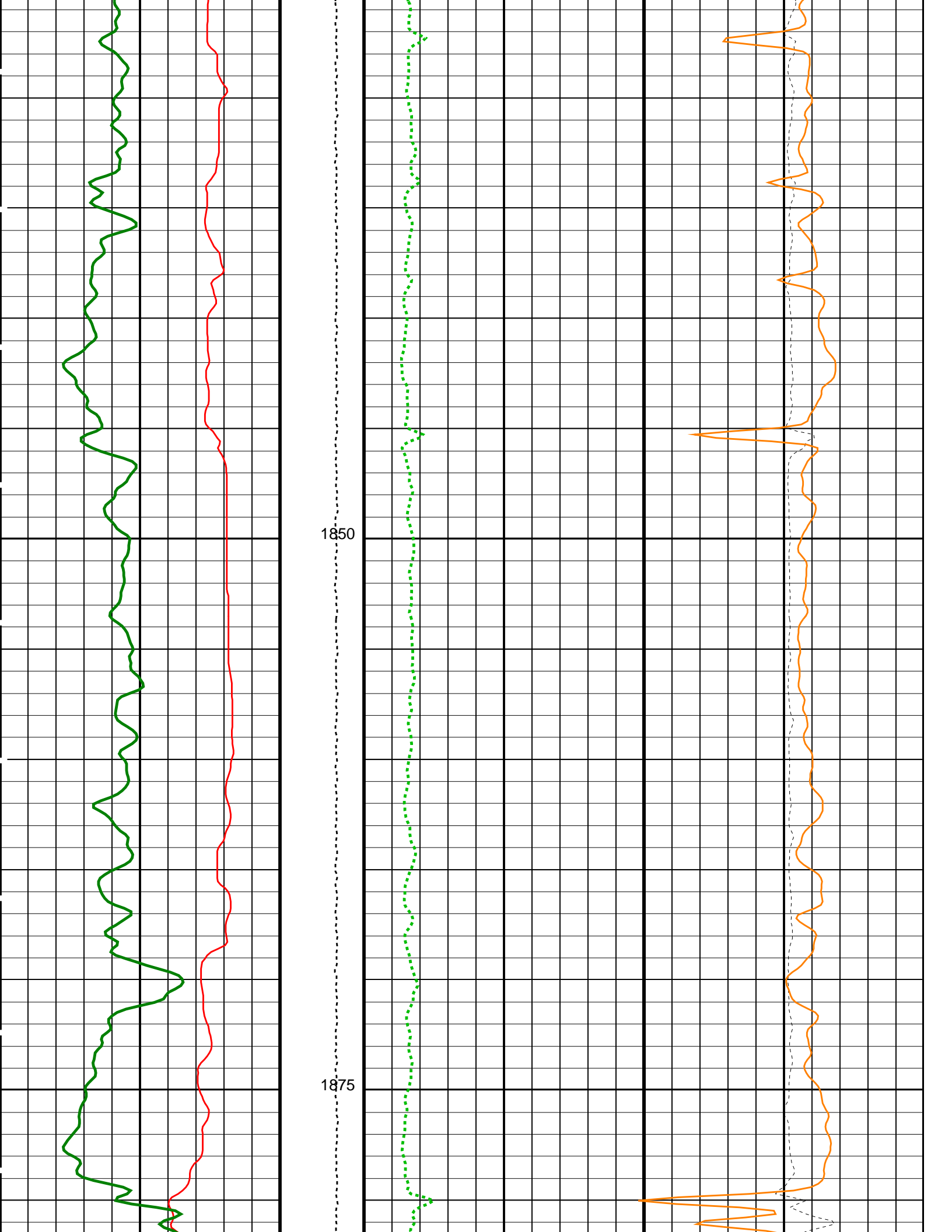


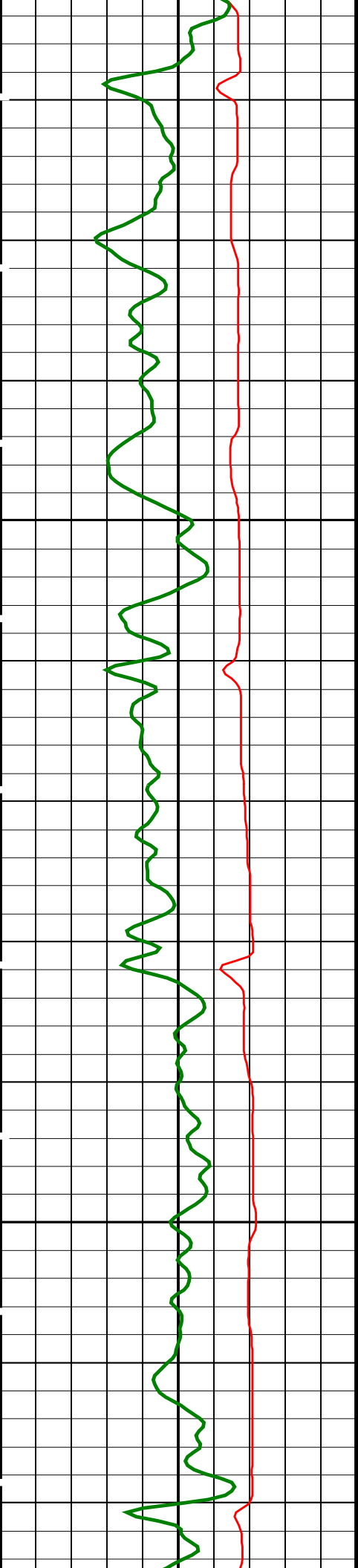
1775

1800

1825

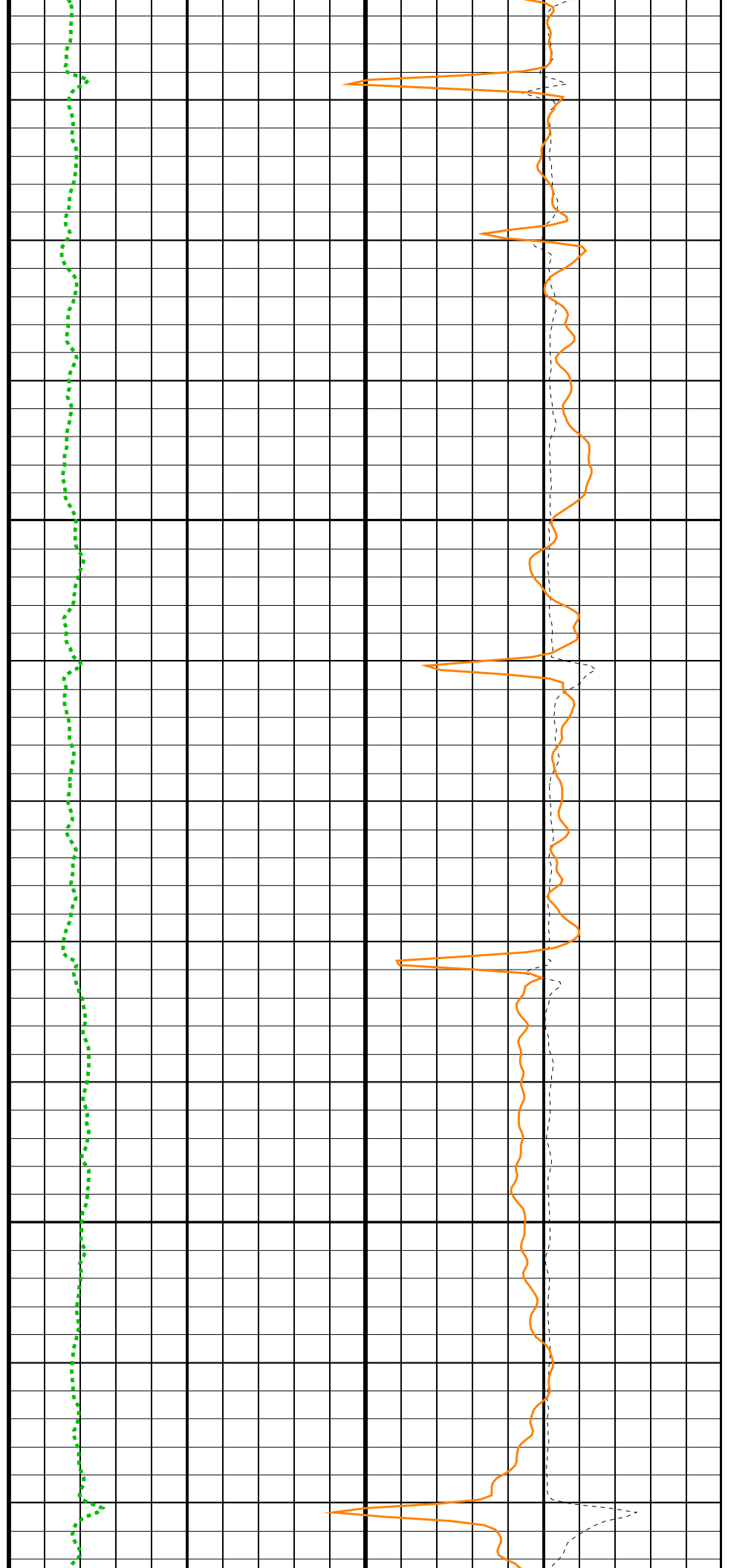


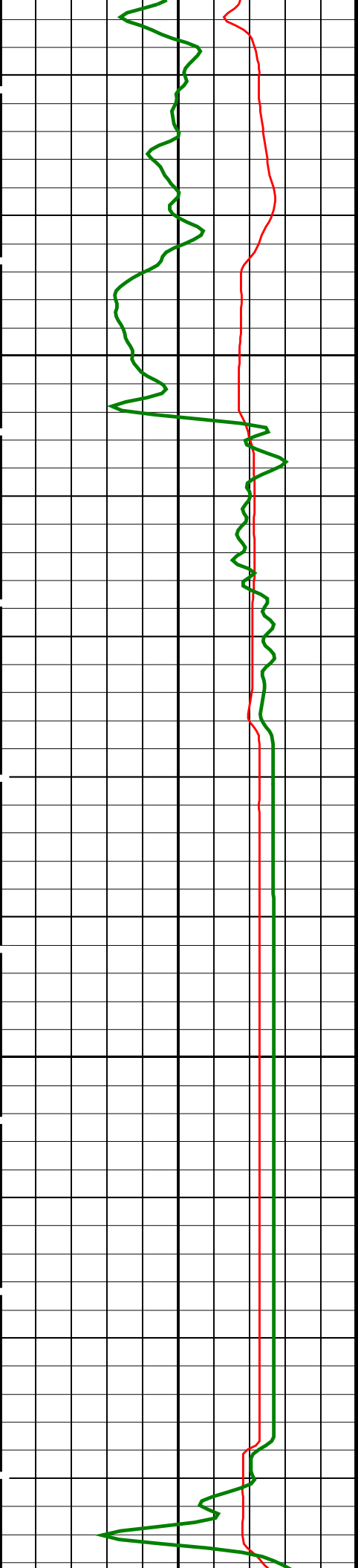




1900

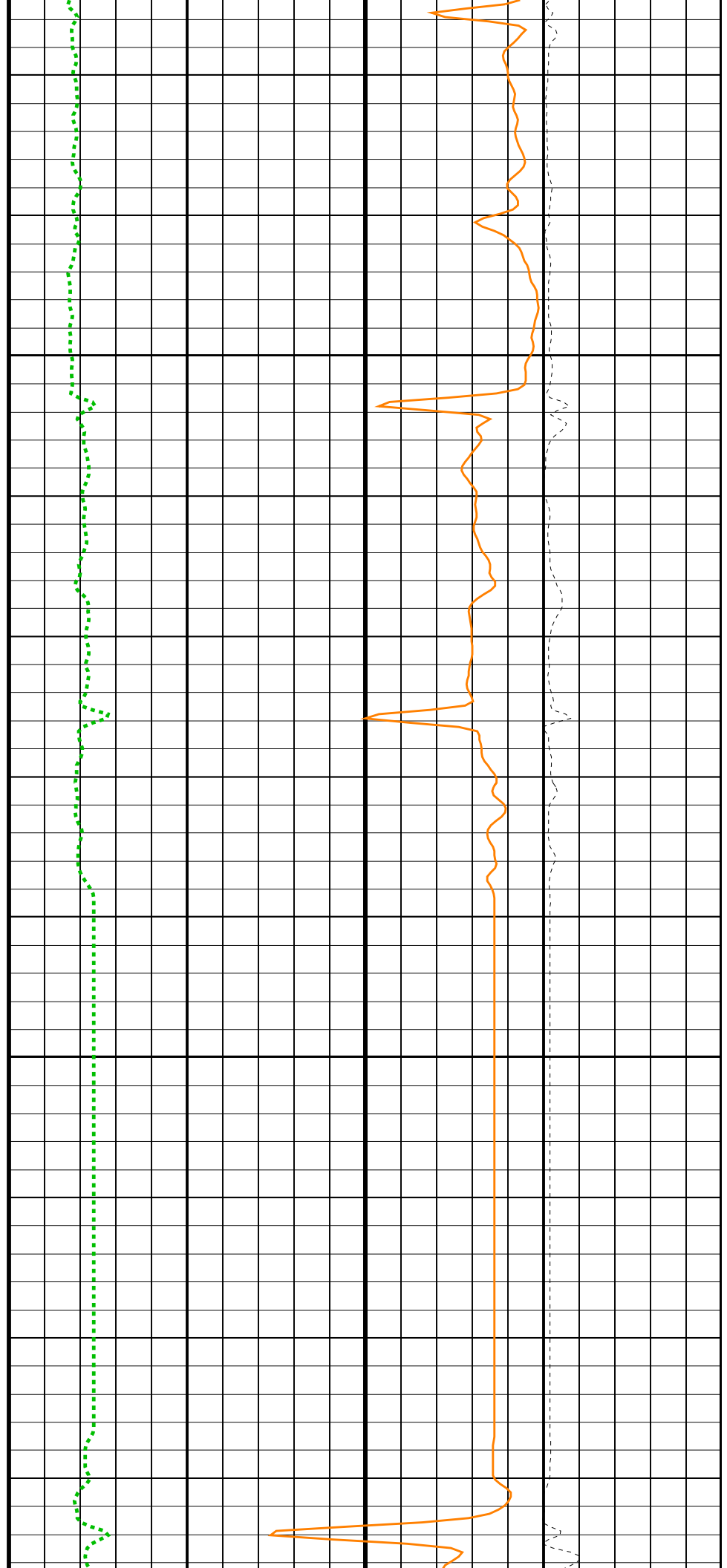
1925

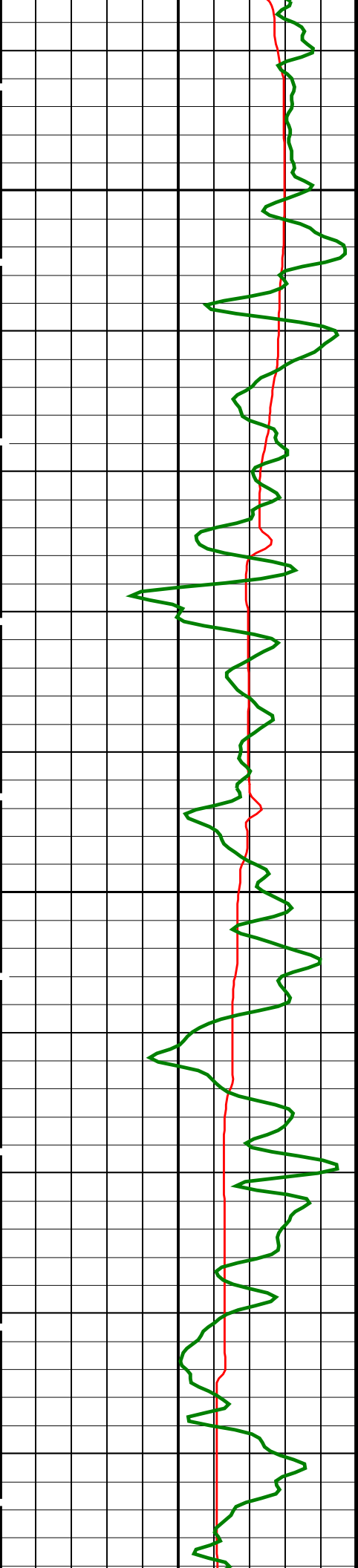




1960

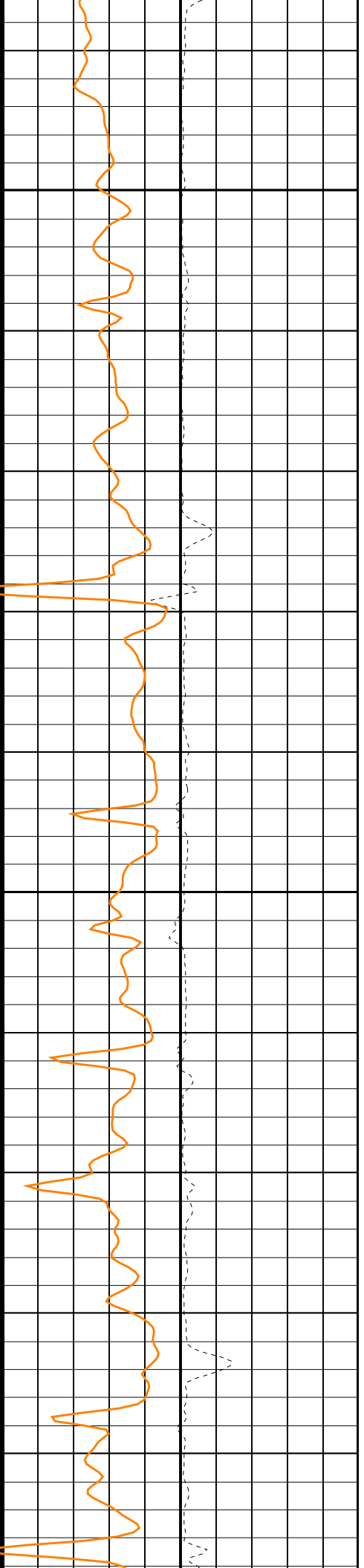
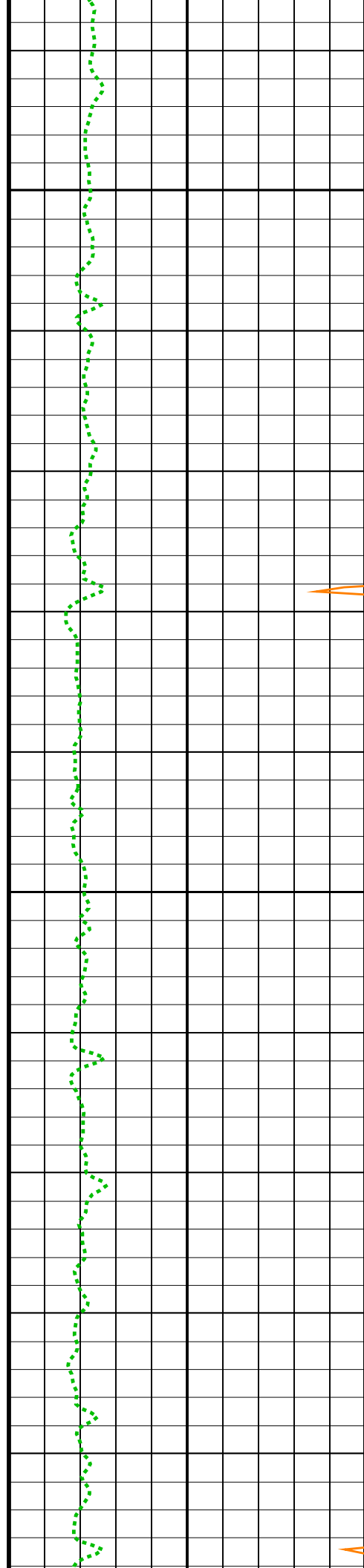
1975

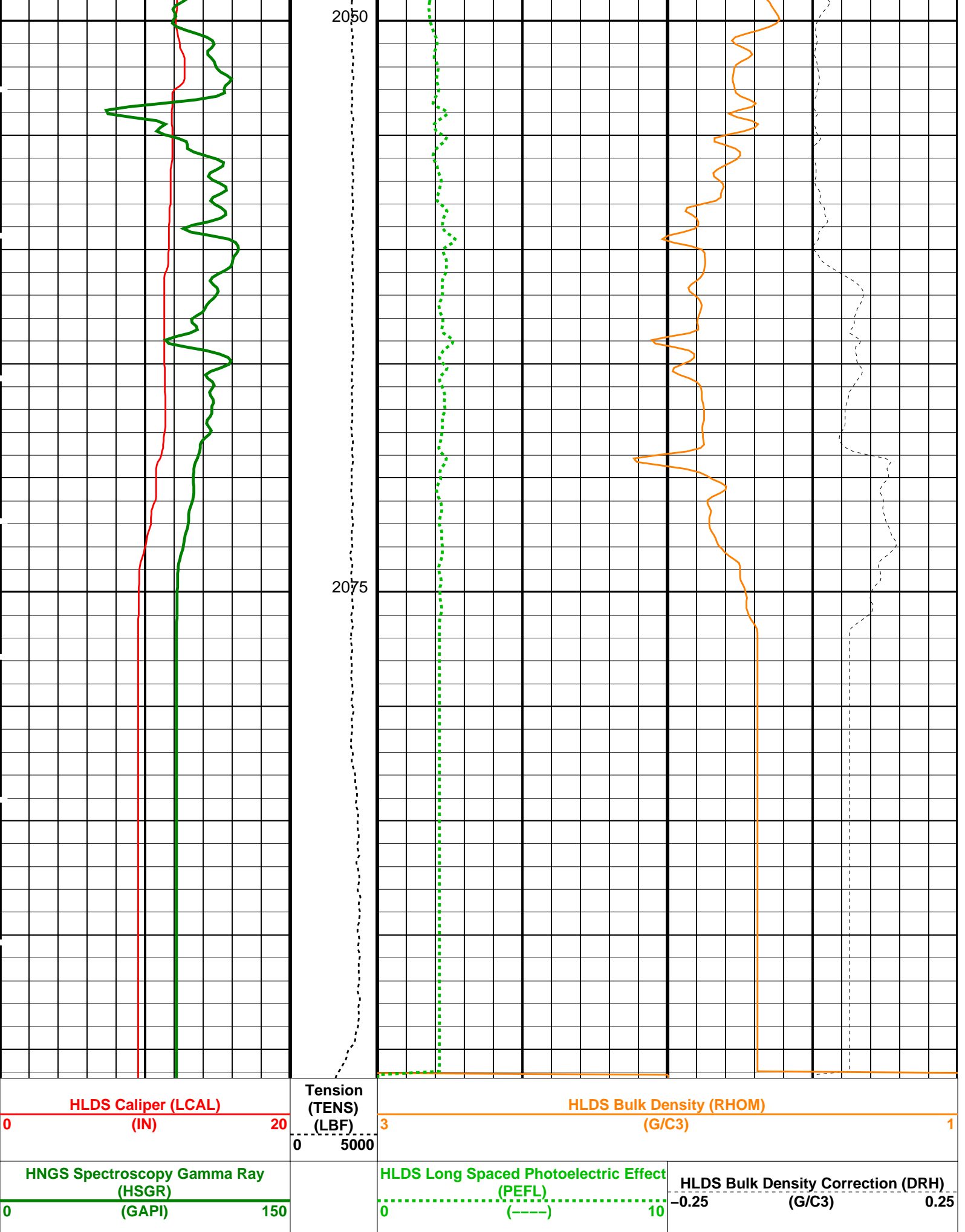




2000

2025





Time Mark Every 60 S

PIP SUMMARY

Parameters

DLIS Name	Description	Value	
	HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
MDEN	Matrix Density	2.6	G/C3
	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	
BHS	Borehole Status	OPEN	
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	NONE	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00175334	
HCRB	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01115	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03111	
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 30-Sep-2019 18:08

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08		
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08		

Company: International Ocean Discovery Program

Well: Expedition 385, Site U1545A

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08	2096.3 M	1589.2 M
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08	2096.3 M	1589.2 M

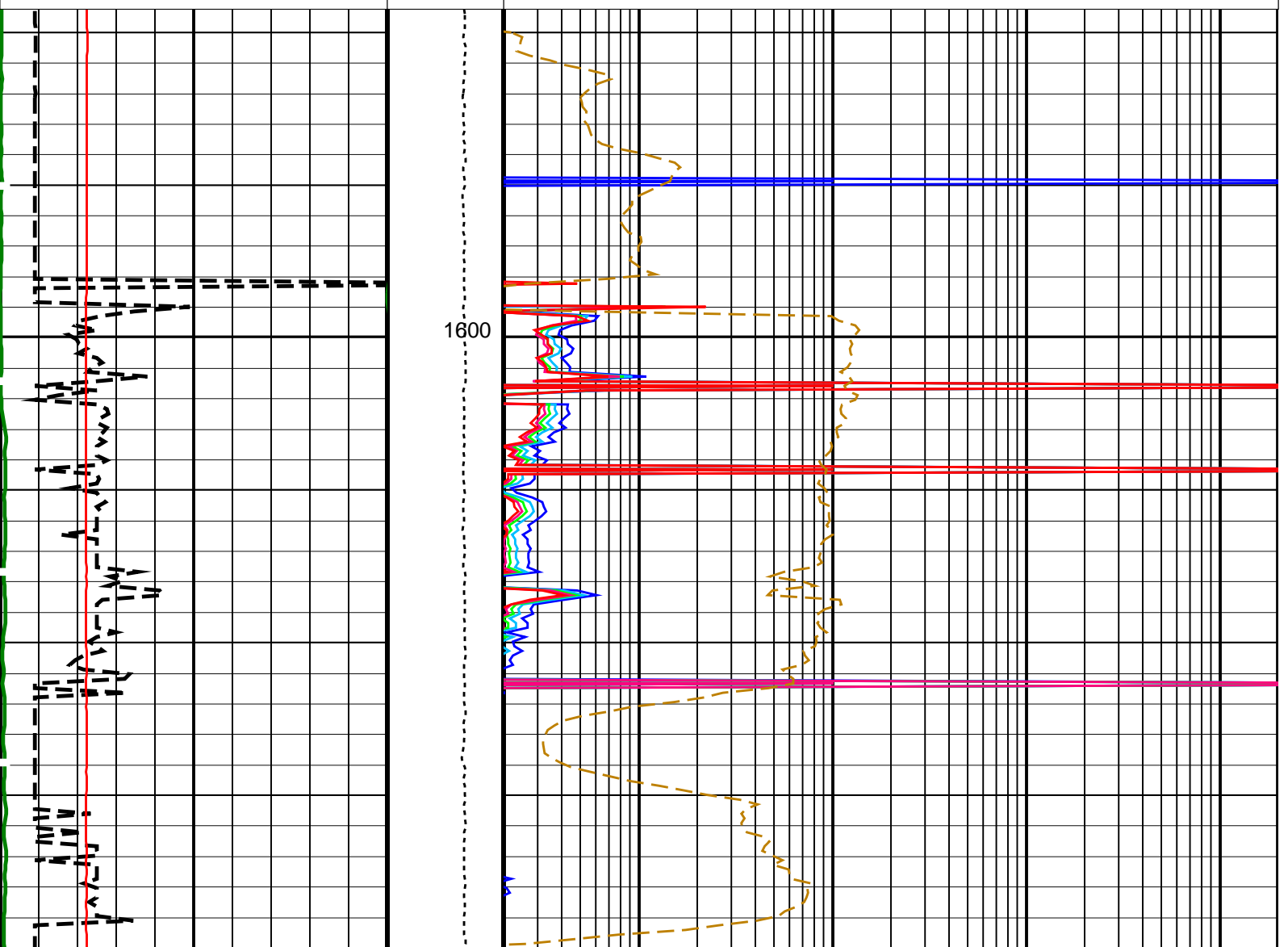
OP System Version: 19C0-187

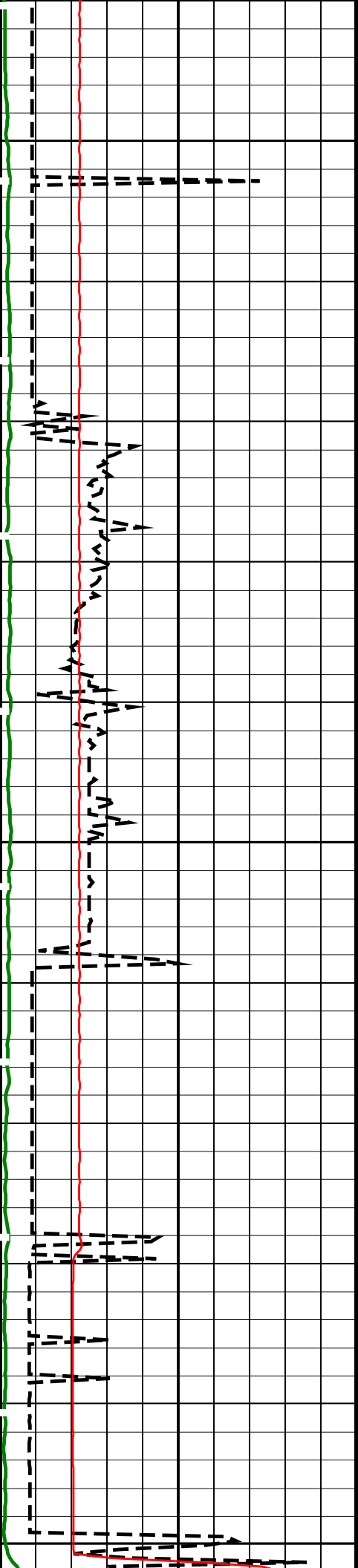
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

PIP SUMMARY

Time Mark Every 60 S

	HRLT Mud Resistivity (RM_HRLT) 0.02 (OHMM) 200	
	HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000	
	HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000	
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150	HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000	
Invasion Diameter (DI_HRLT) 0 (IN) 50	HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 2000	
HLDS Caliper (LCAL) 0 (IN) 20	HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 2000	Tension (TENS) 0 (LBF) 5000

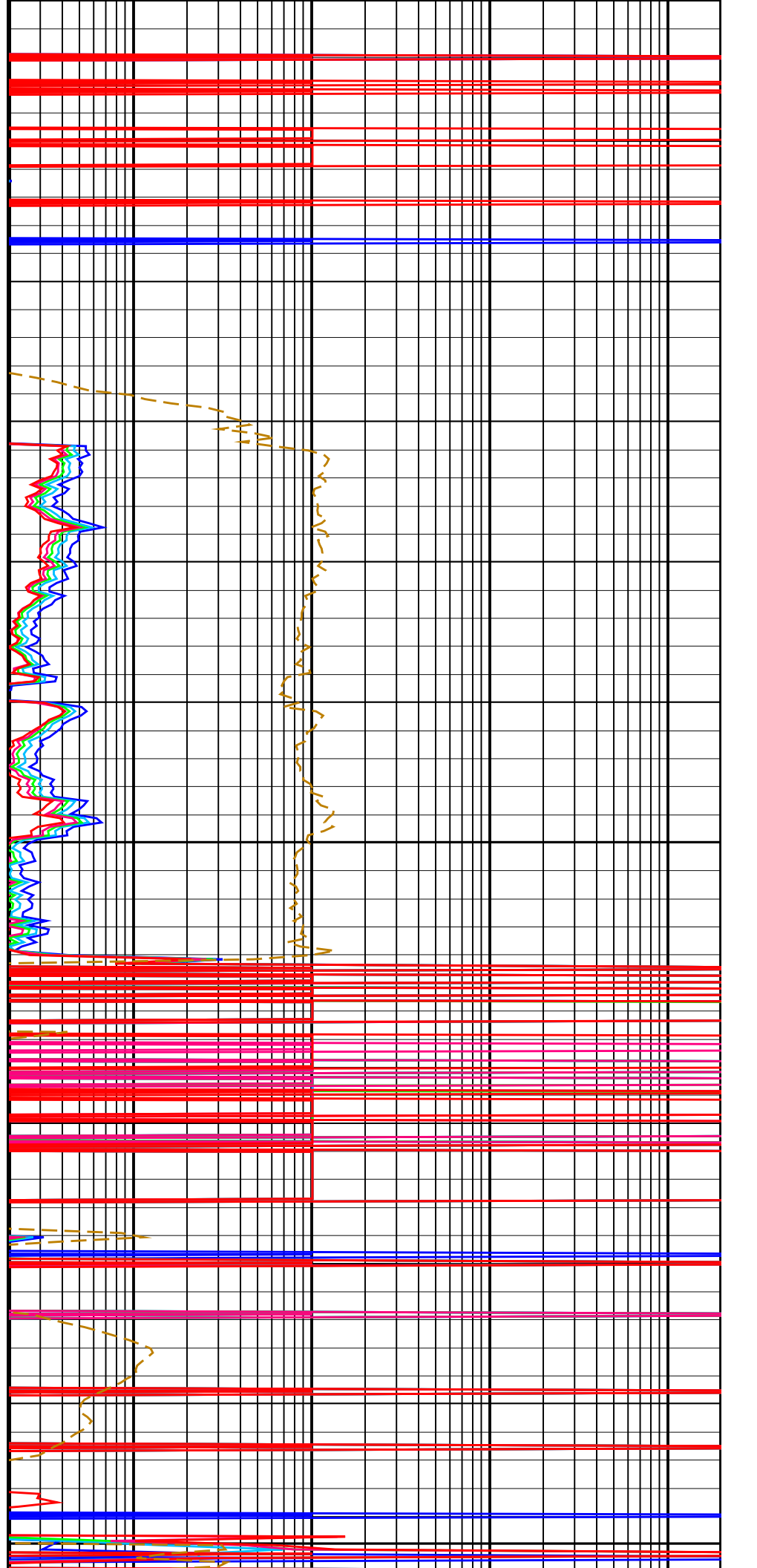


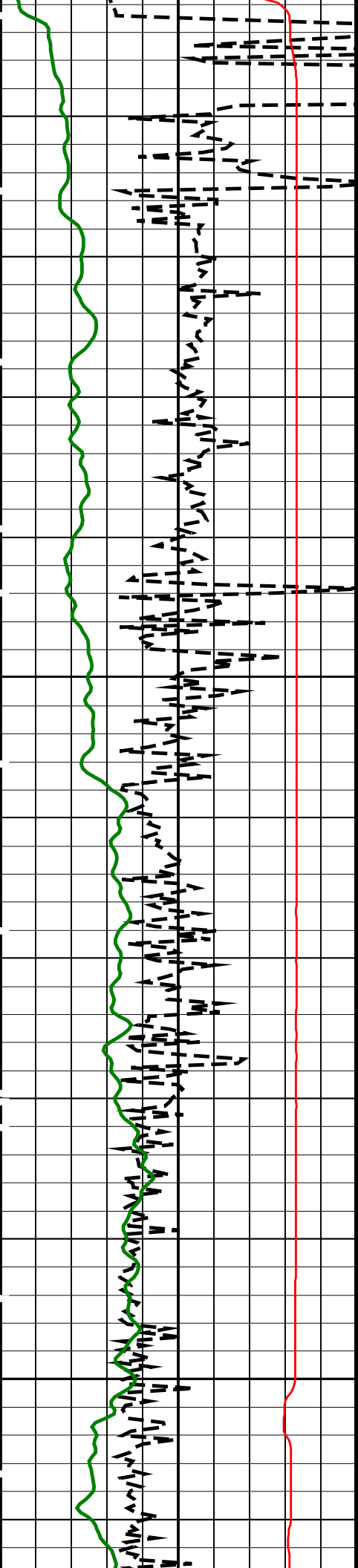


1625

1650

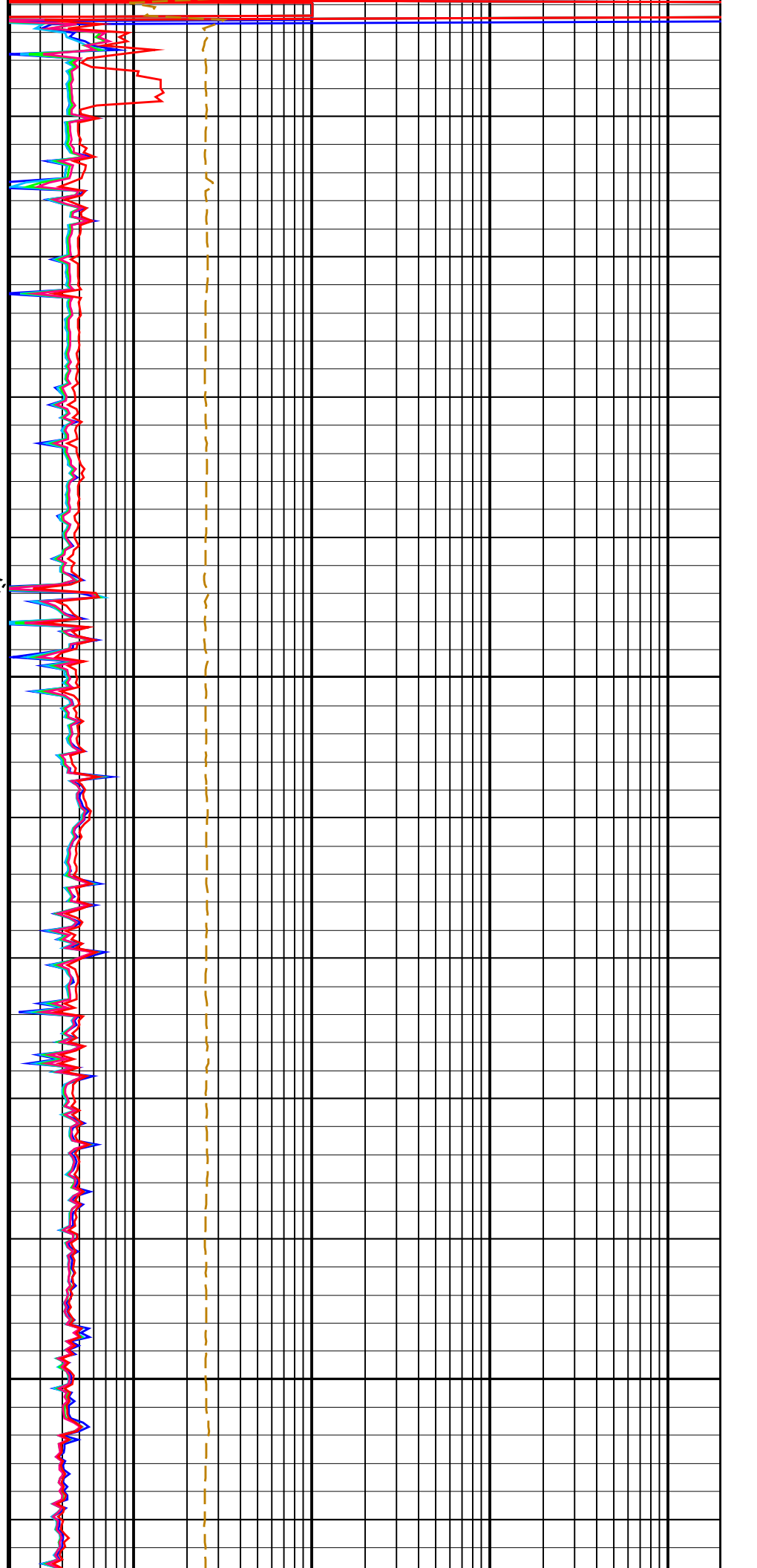
1675

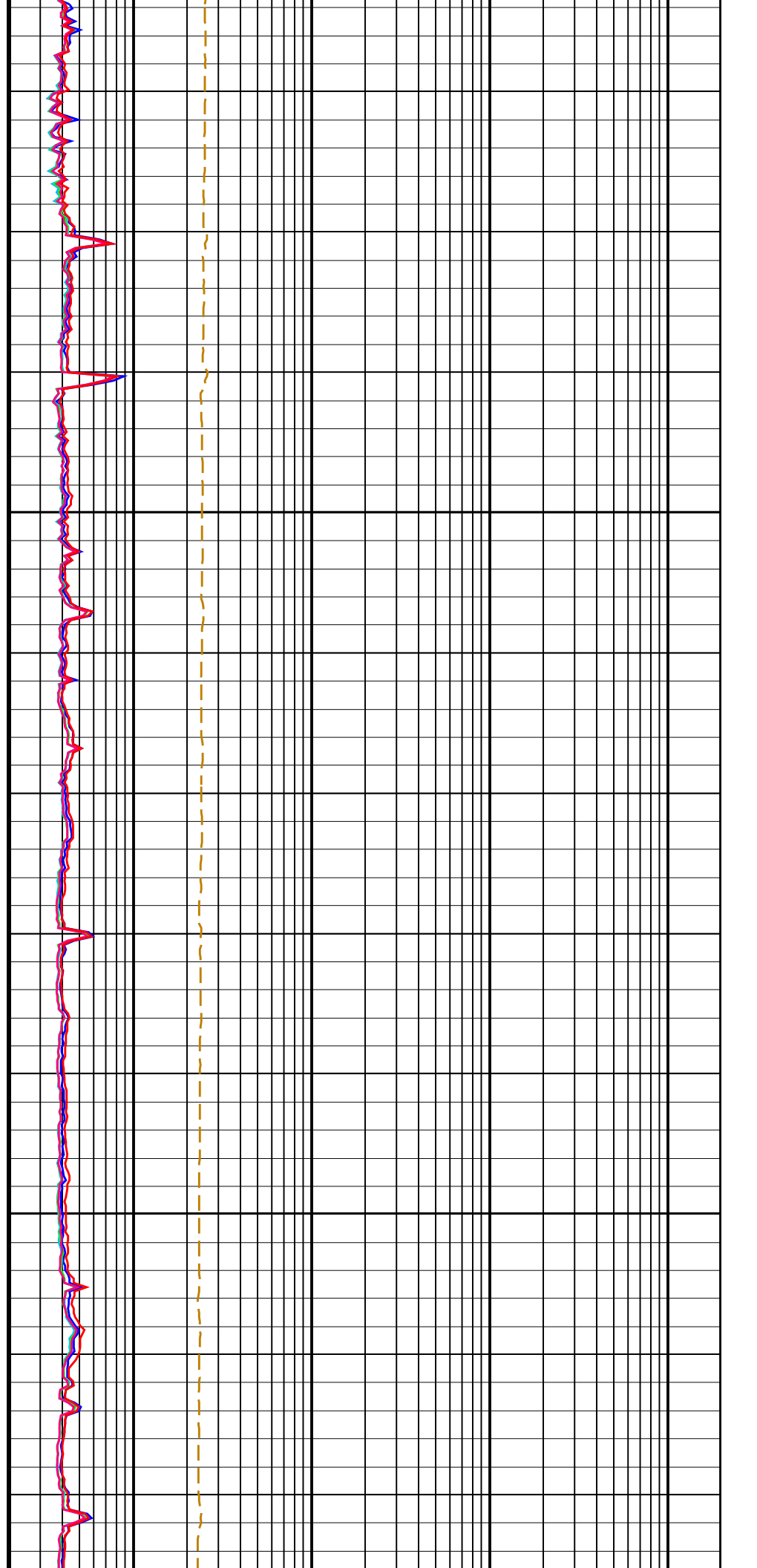
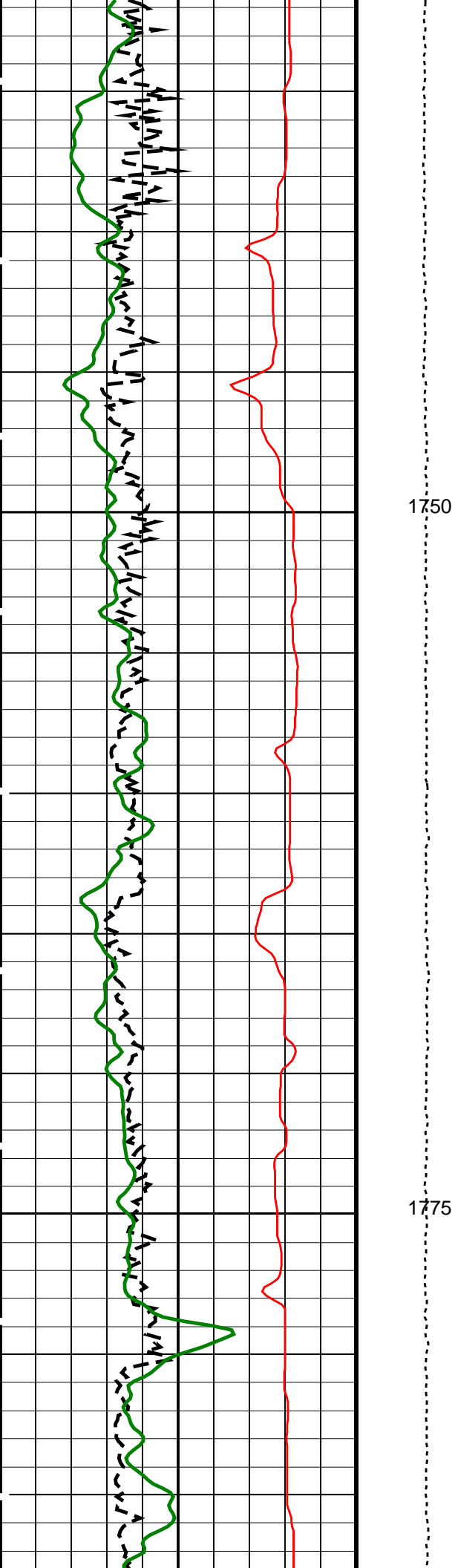


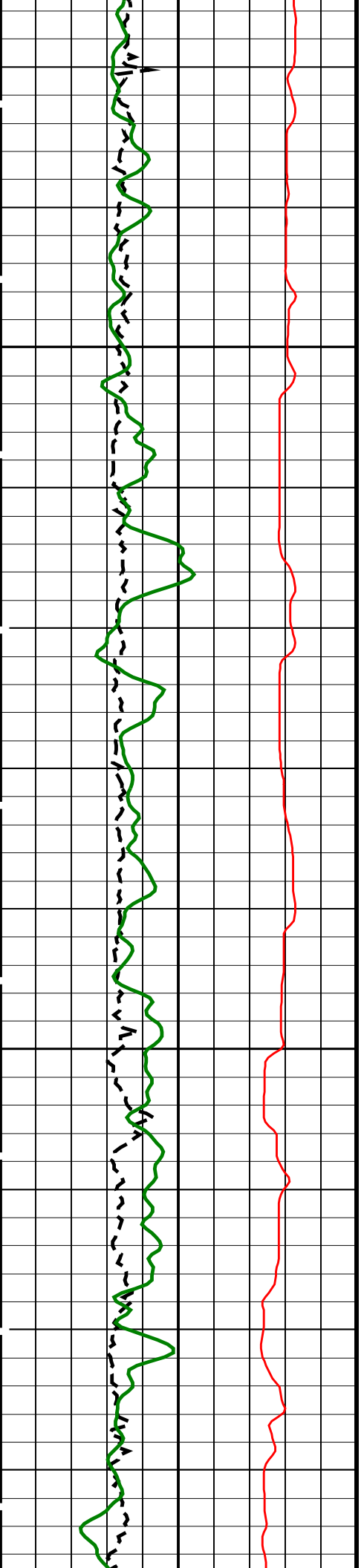


1700

1725

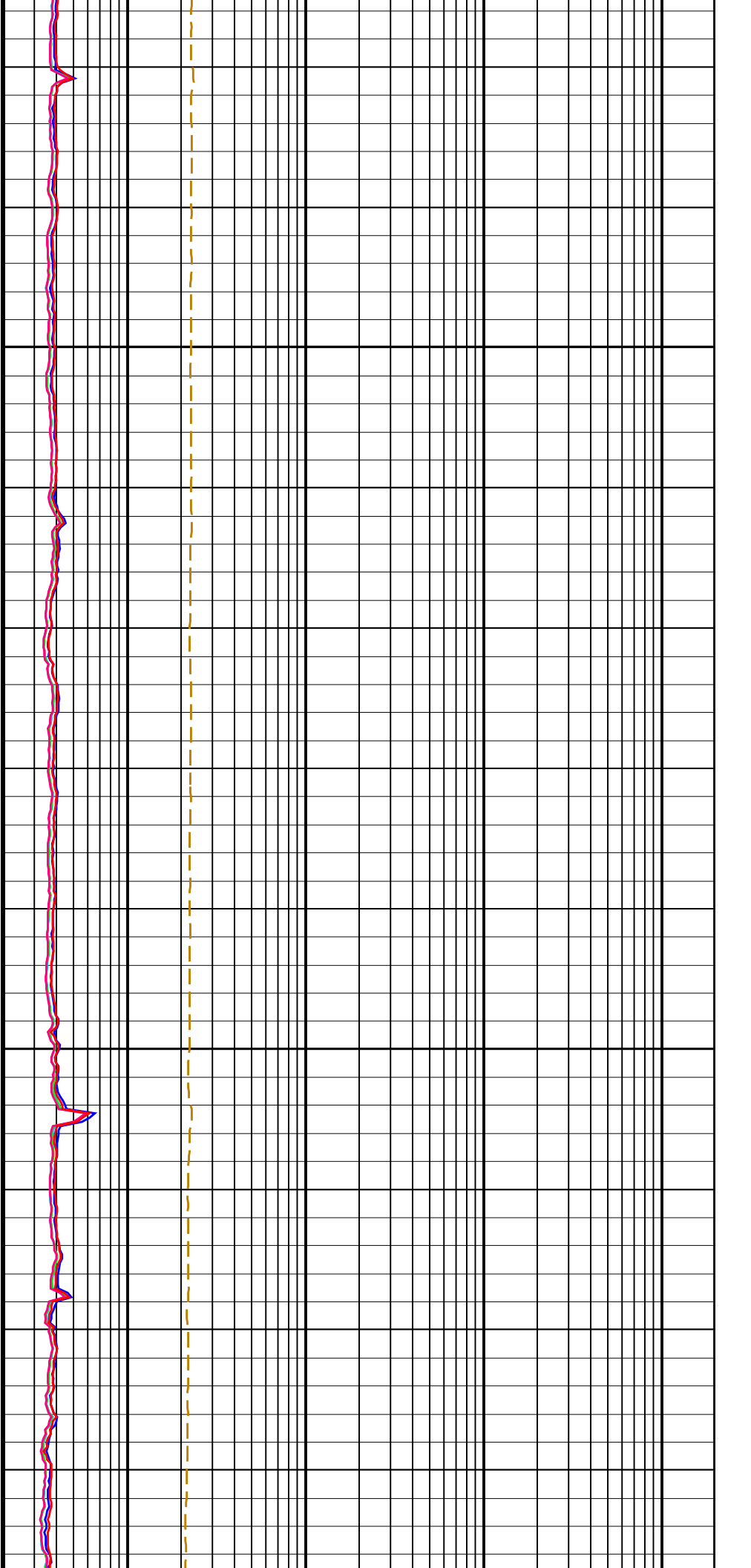


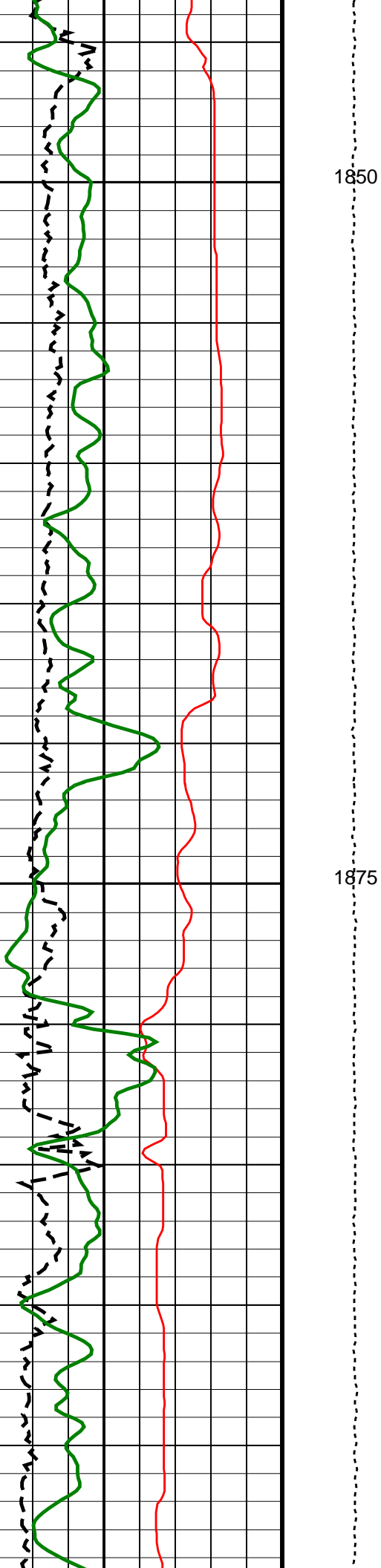




1800

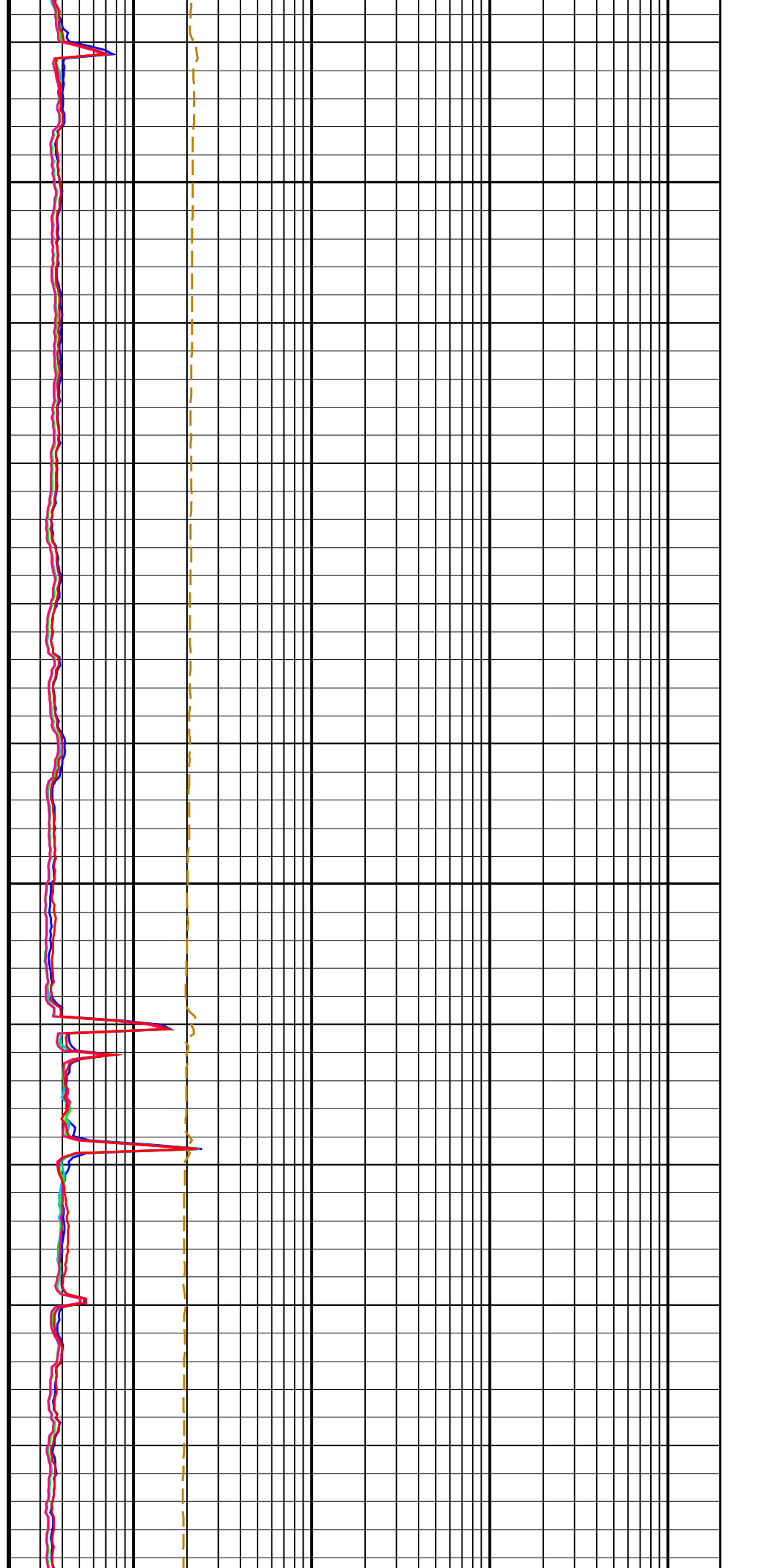
1825

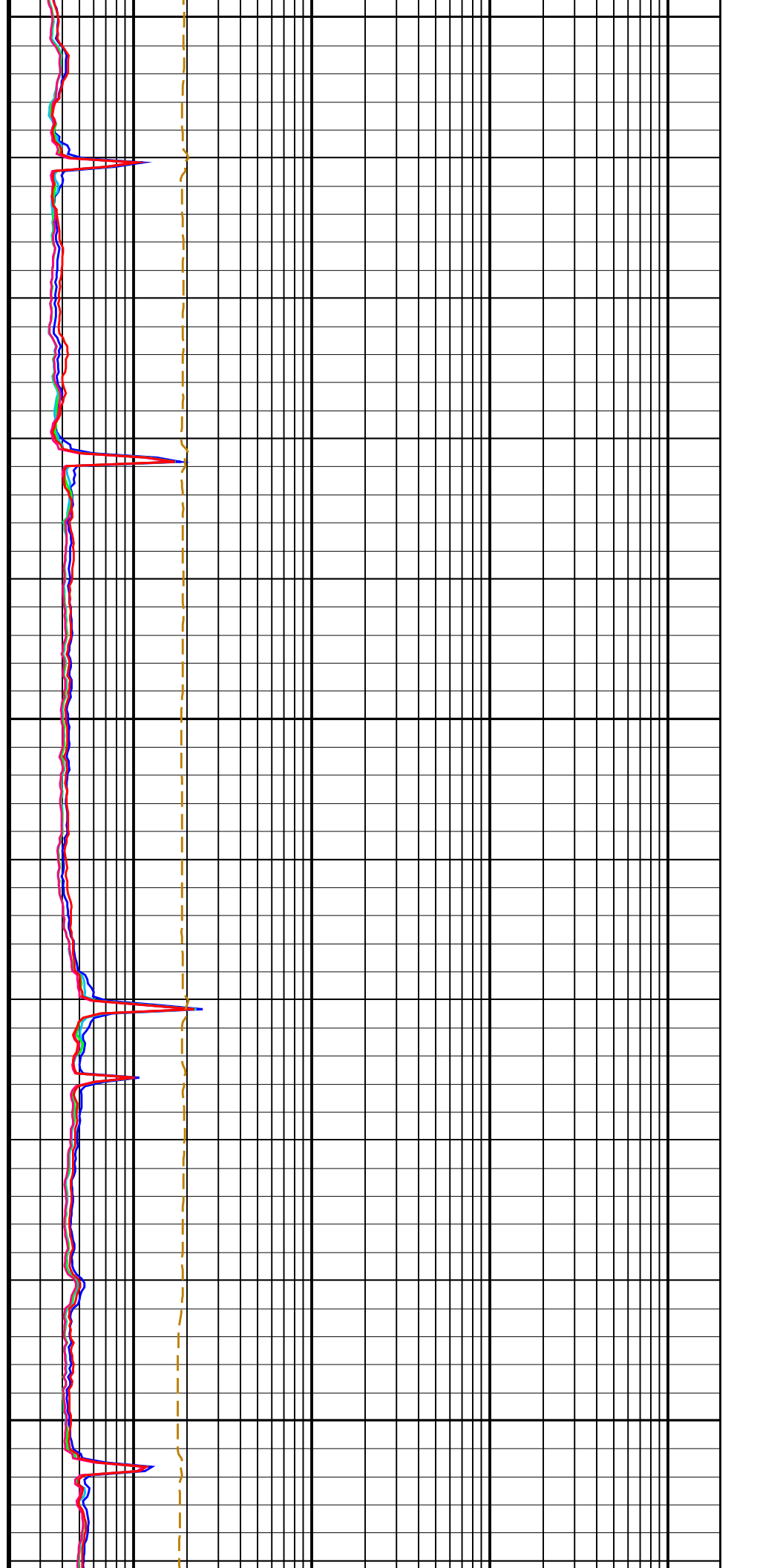
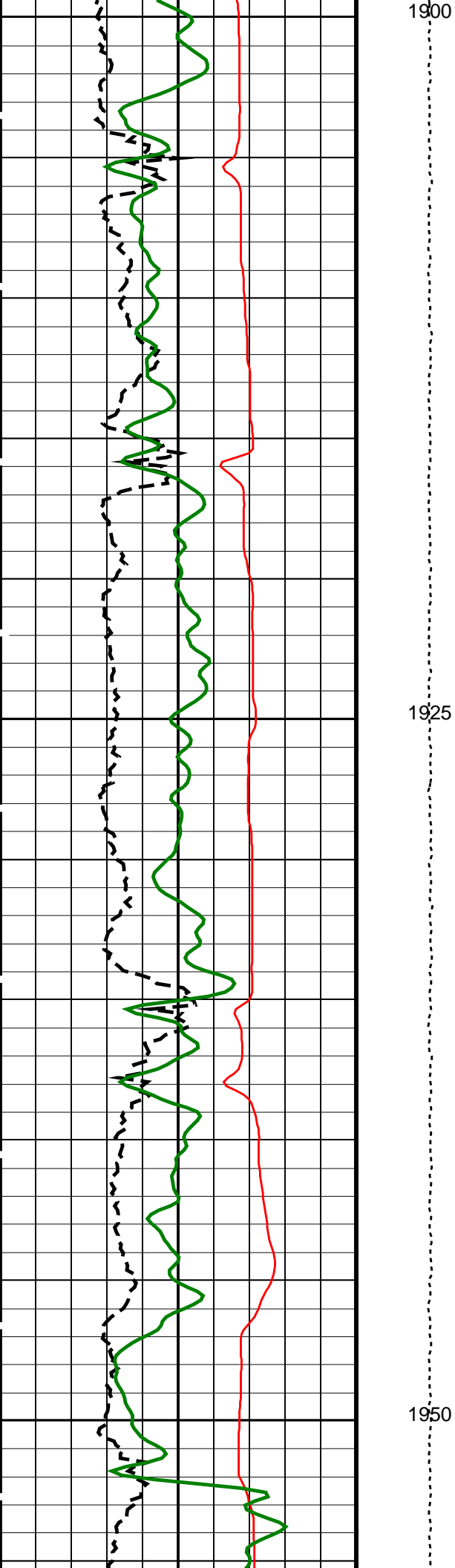


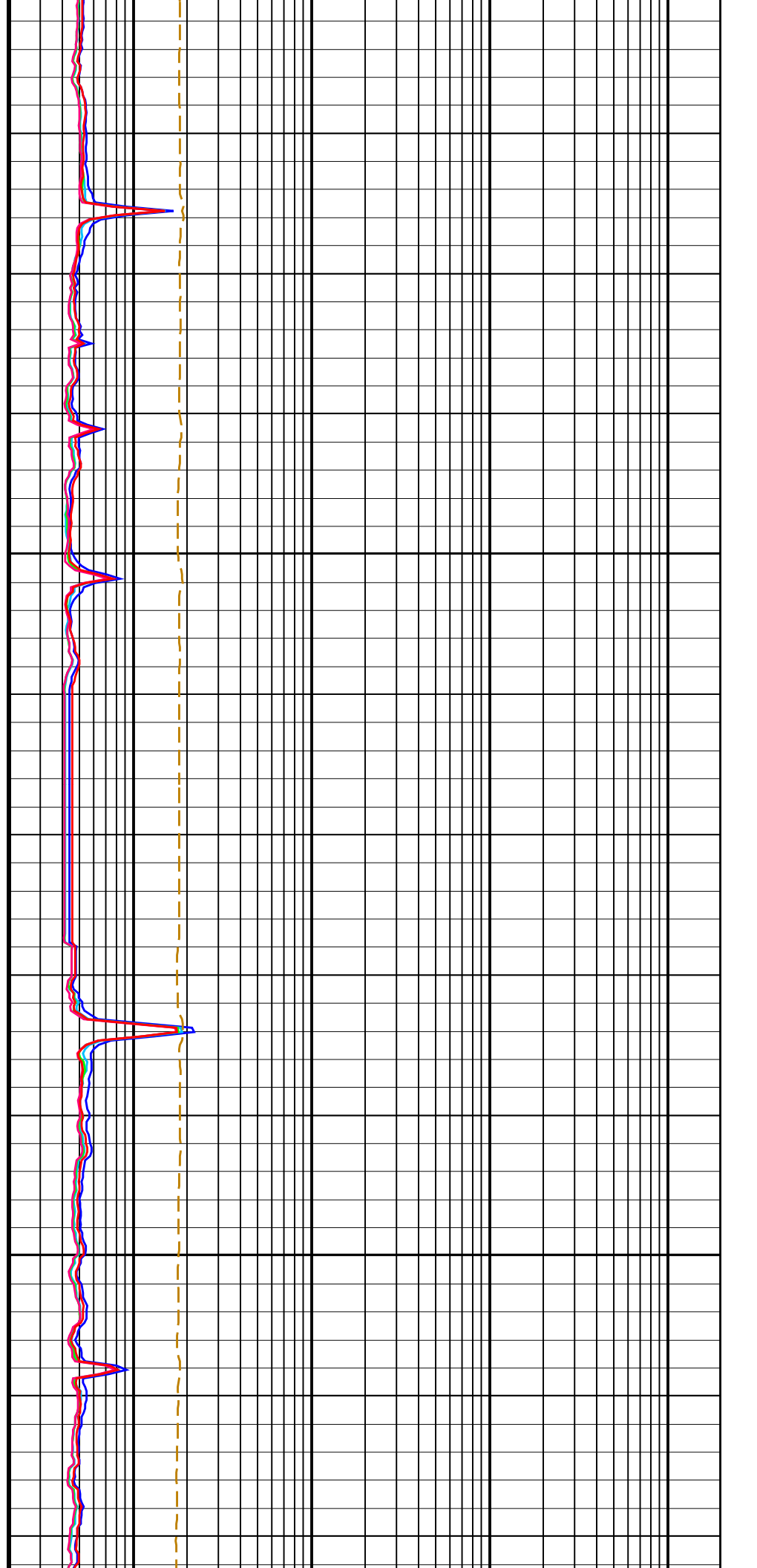
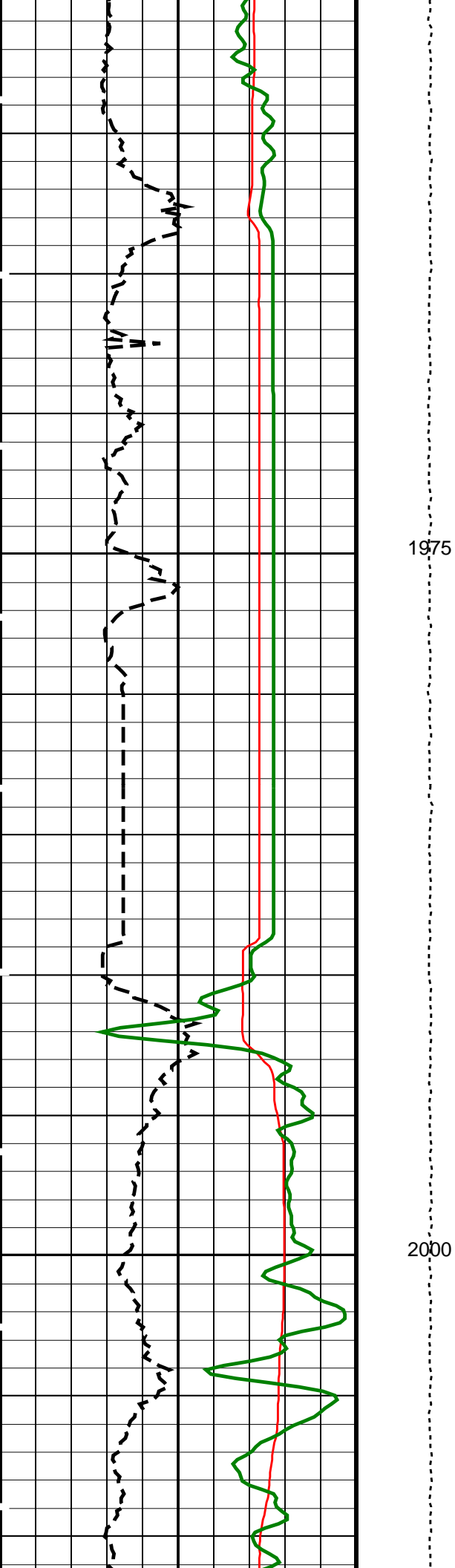


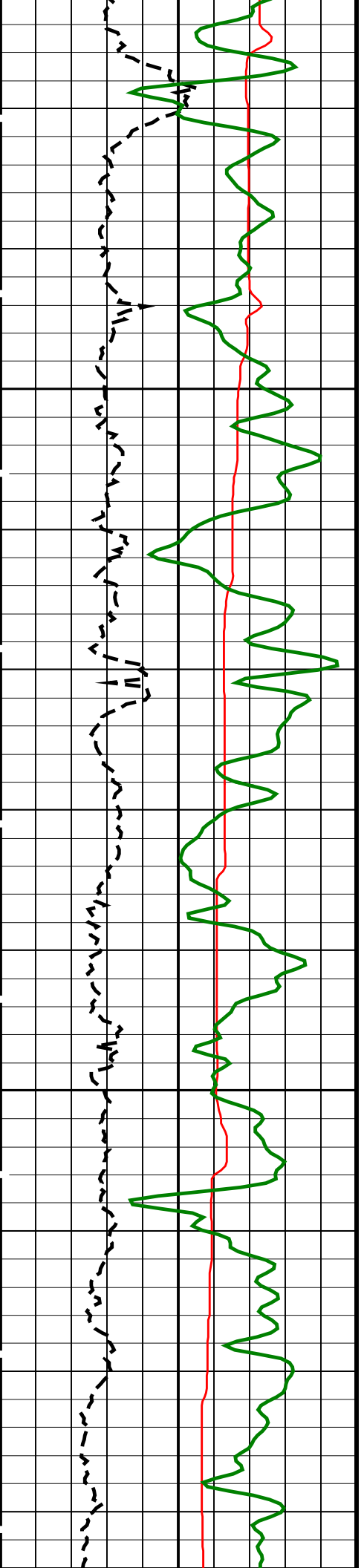
1850

1875



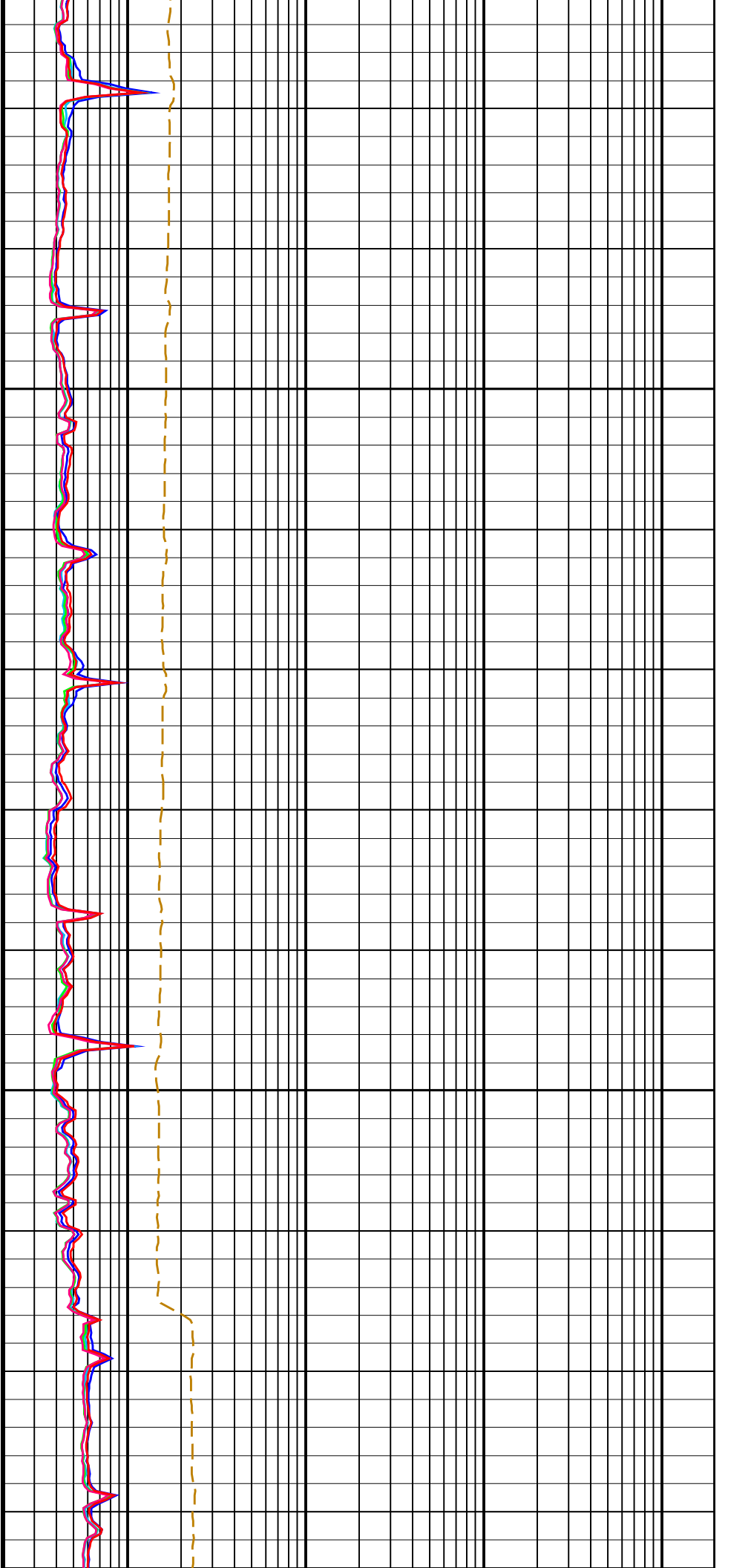


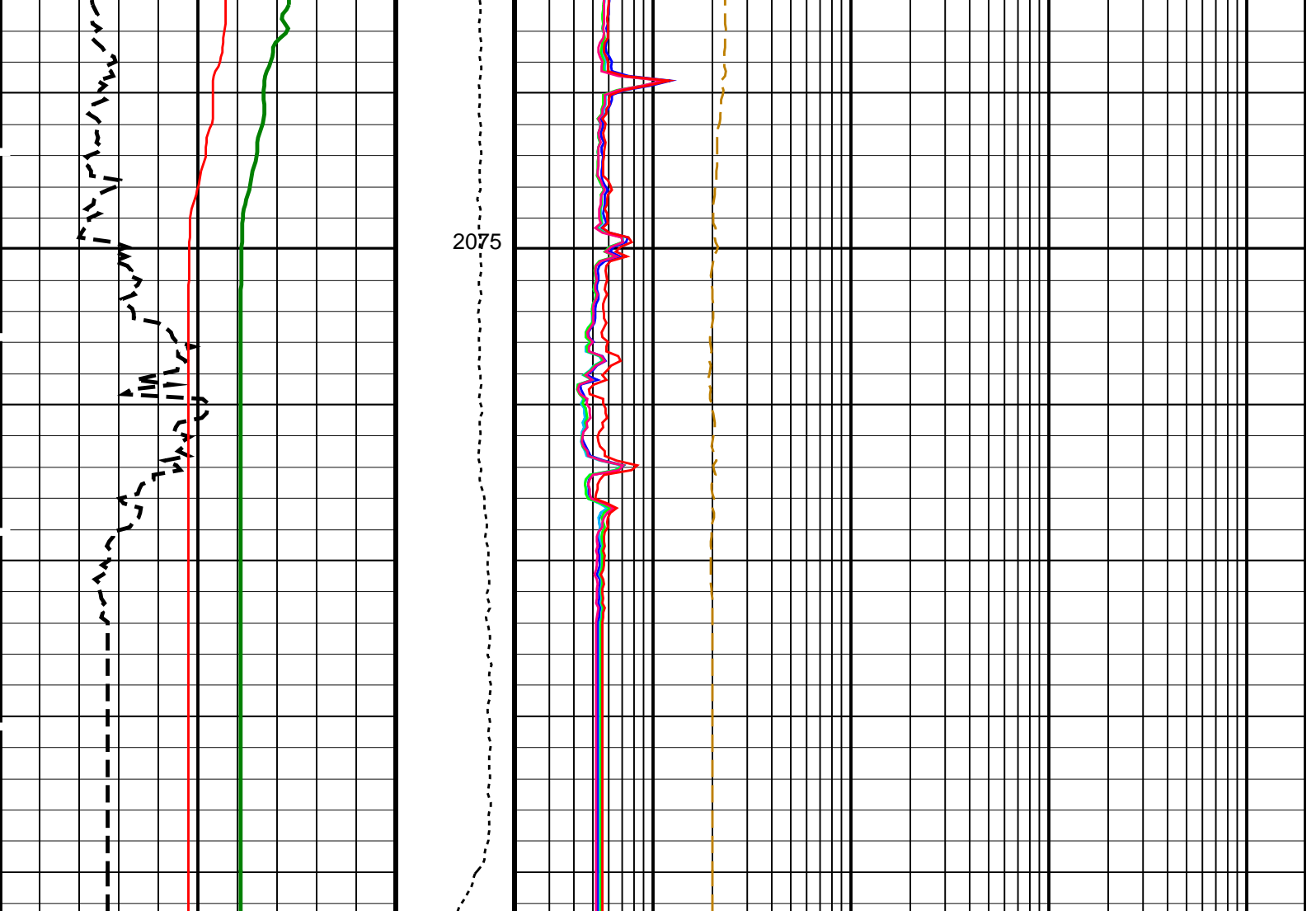




2025

2050





HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 2000
Invasion Diameter (DI_HRLT) 0 (IN) 50		HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 2000
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150		HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000
		HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000
		HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000
		HRLT Mud Resistivity (RM_HRLT) 0.02 (OHMM) 200

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B:	High Resolution Laterolog Array - B	
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEGF
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.01 DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE

KFAC_HRLT	HRLT K Factor Option	SONDE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	55	DEGF
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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
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	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
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	-0.00175334	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	55	DEGF
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01115	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03111	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	55	DEGF
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	12409.8	FT

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 30-Sep-2019 18:08

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08		
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08		

Company: International Ocean Discovery Program Well: Expedition 385, Site U1545A

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

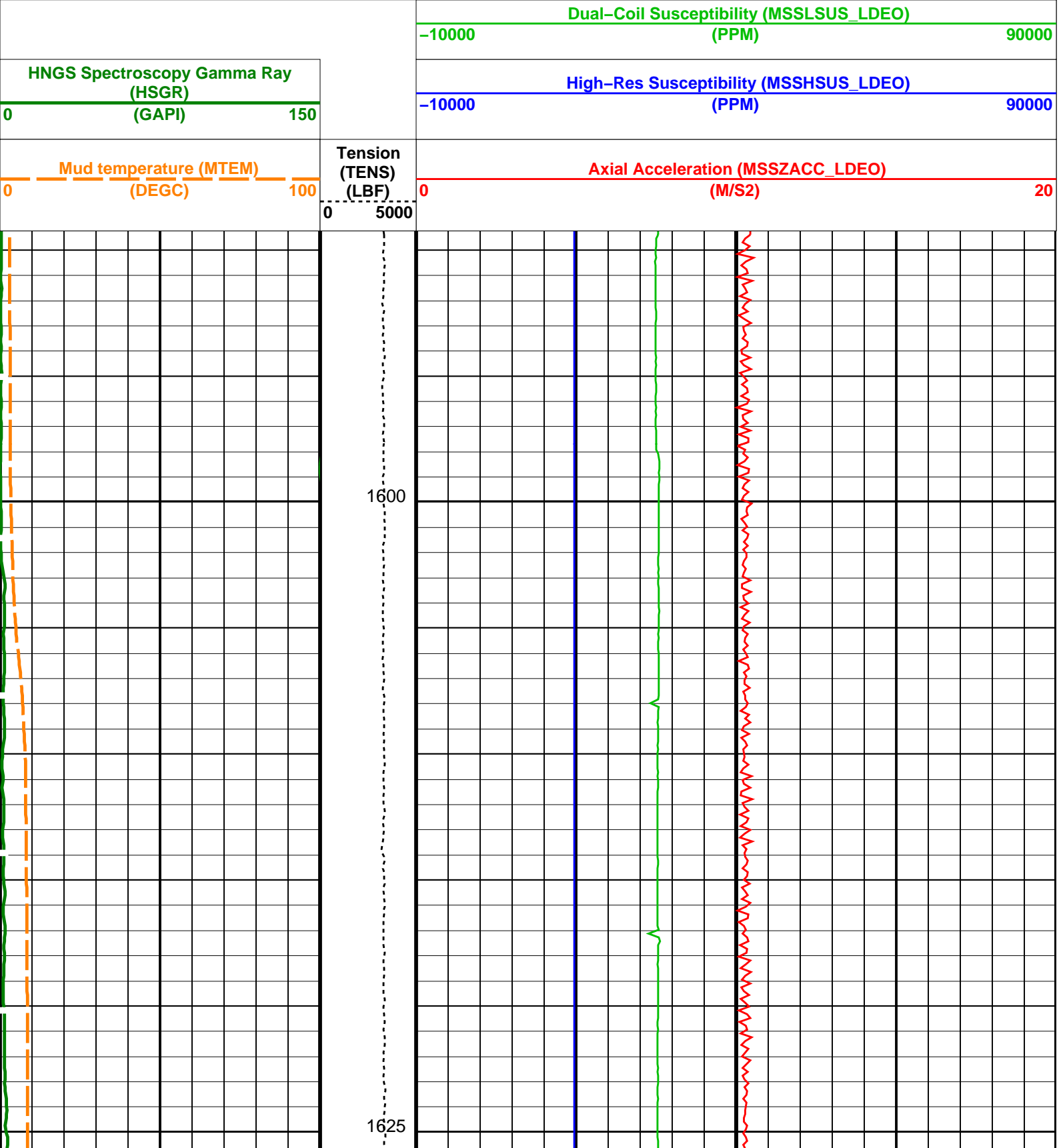
Output DLIS Files

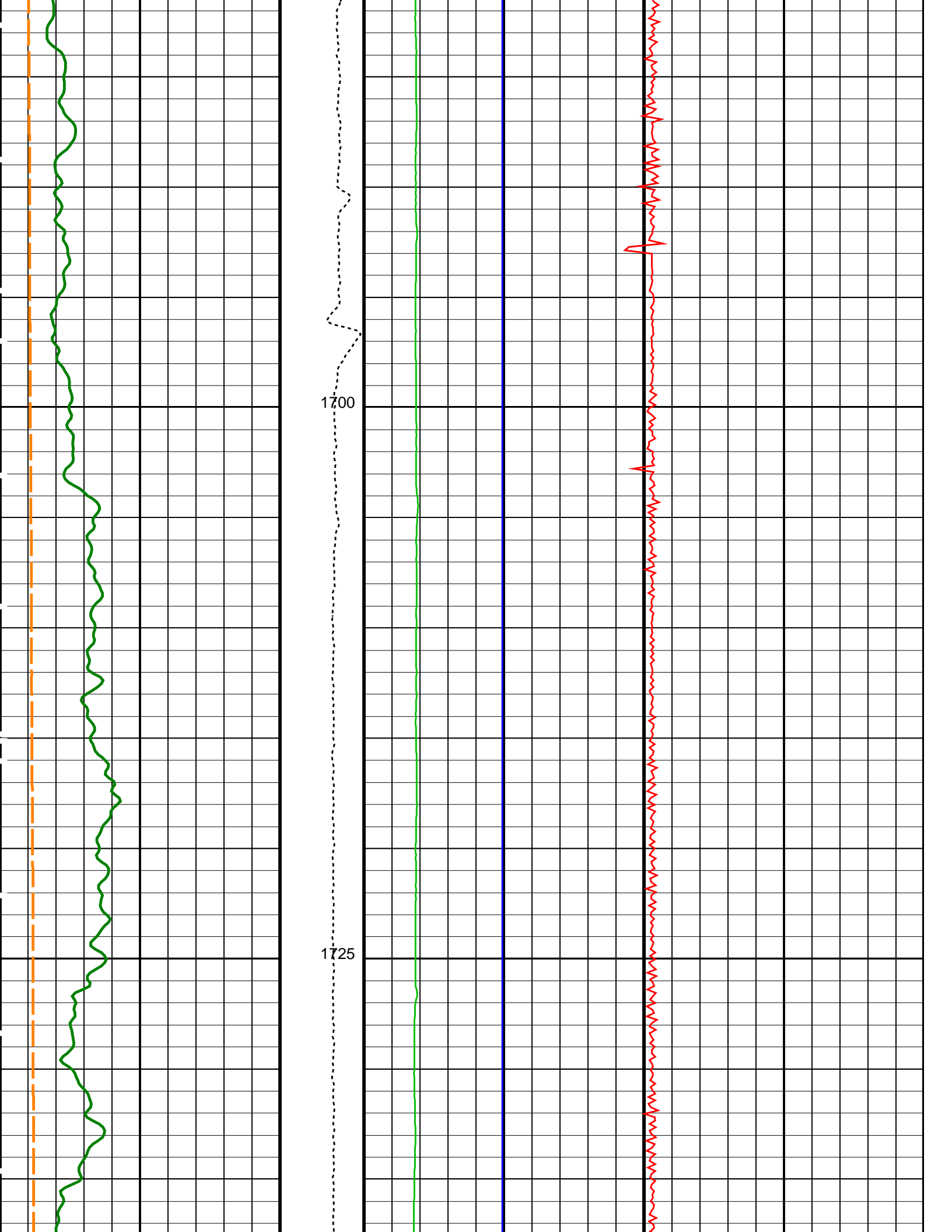
OP System Version: 19C0-187

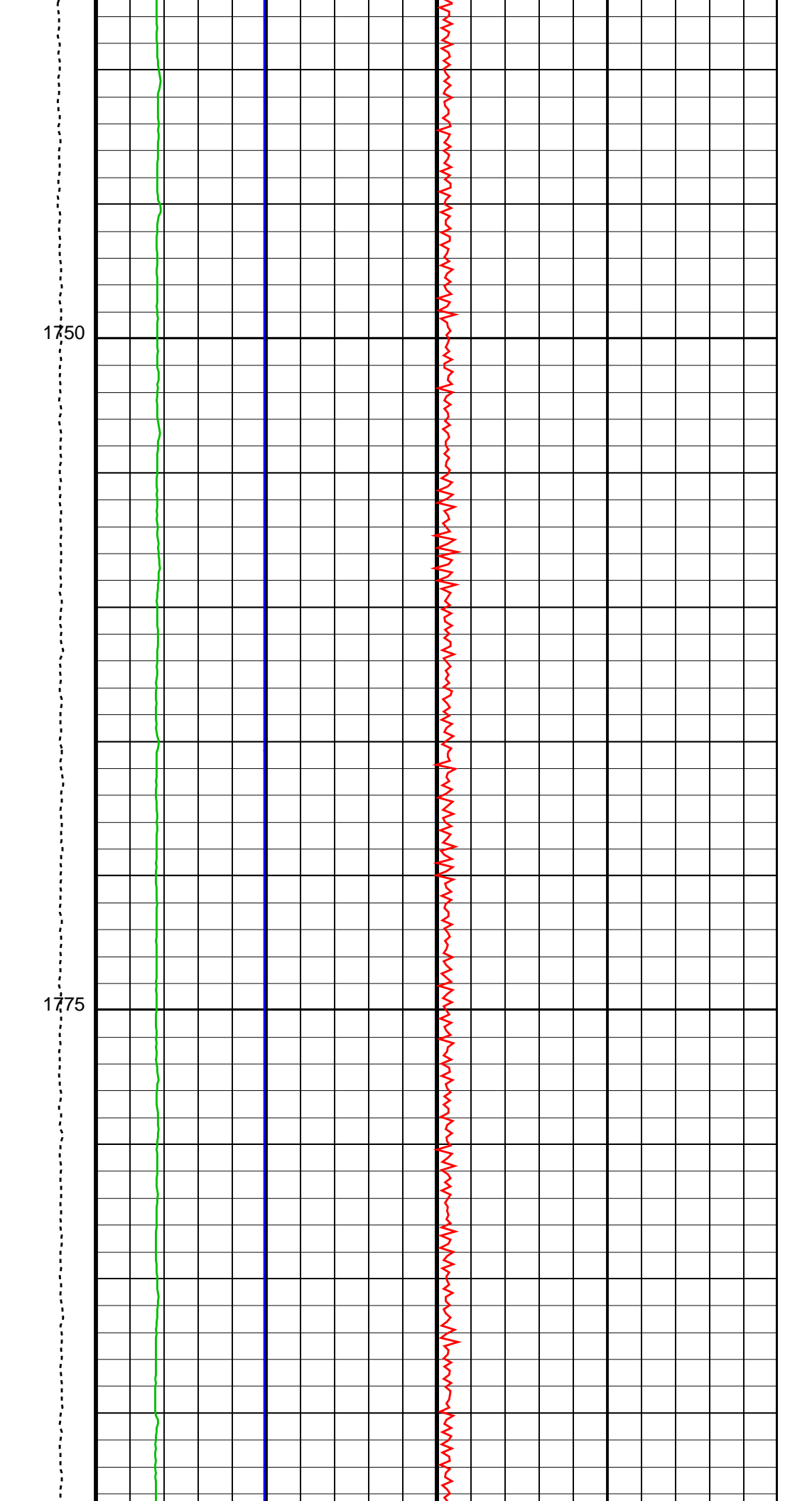
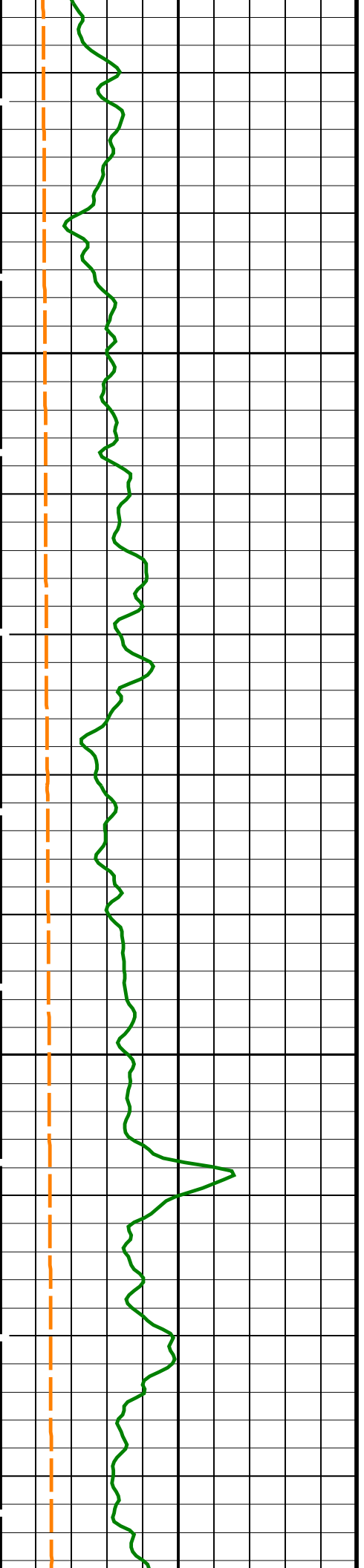
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

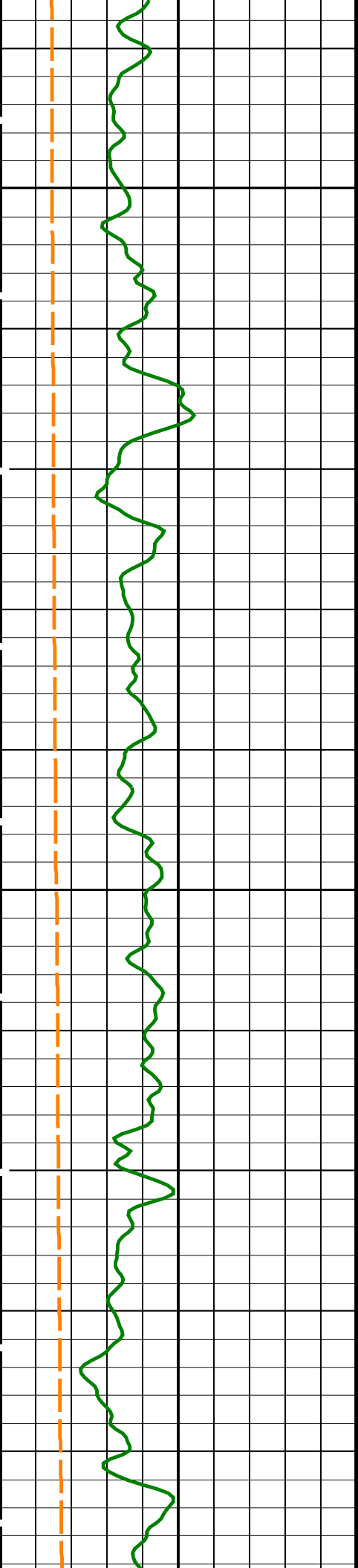
PIP SUMMARY

Time Mark Every 60 S



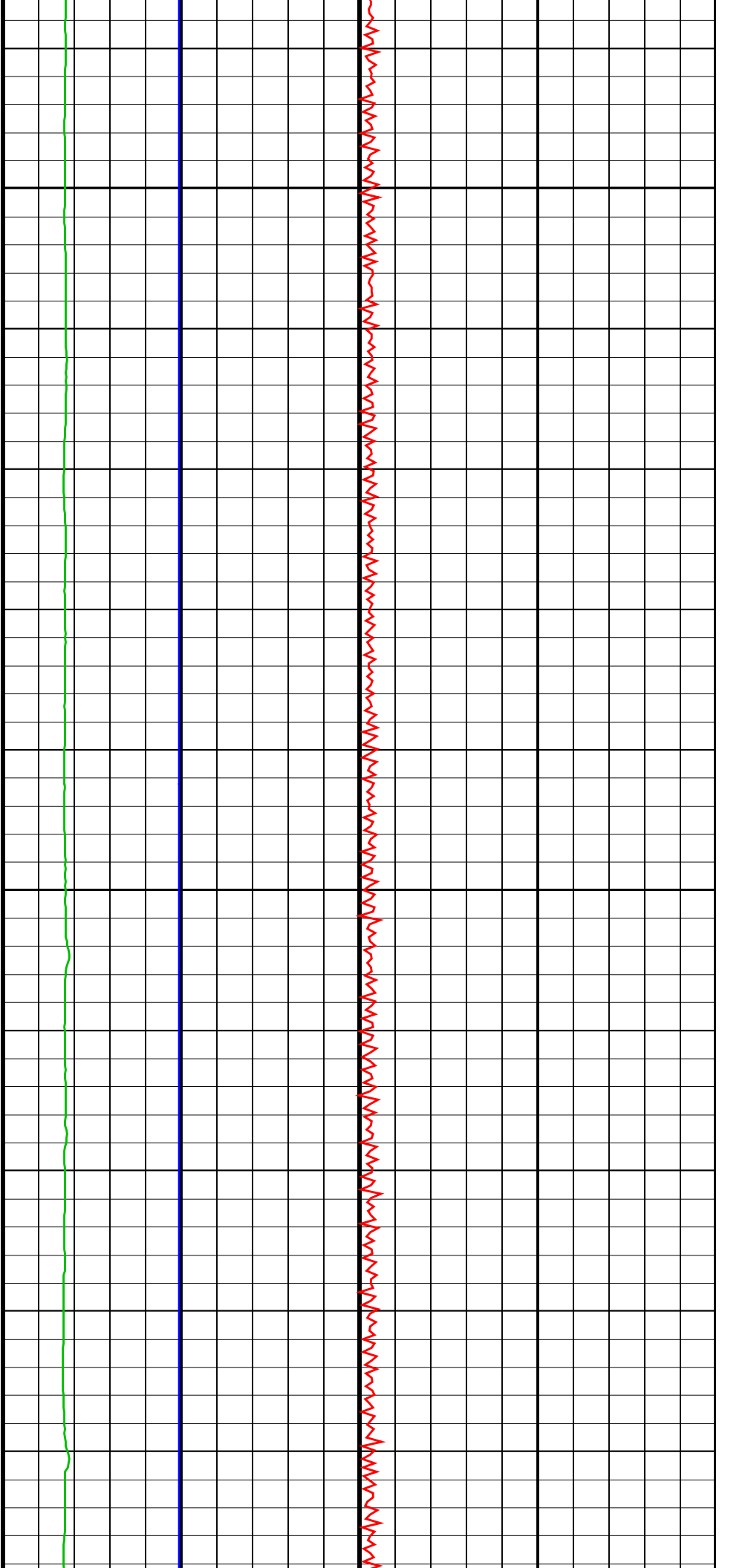


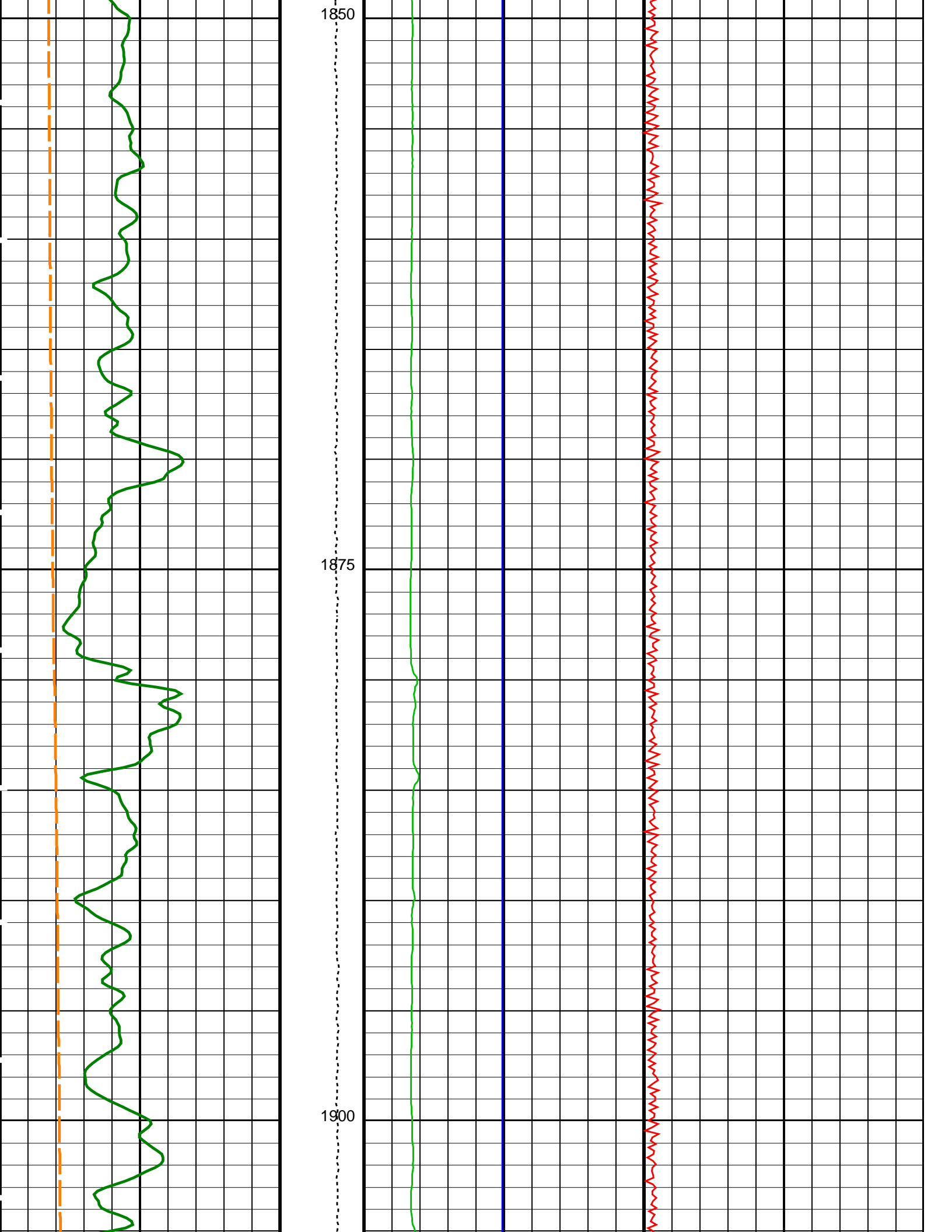


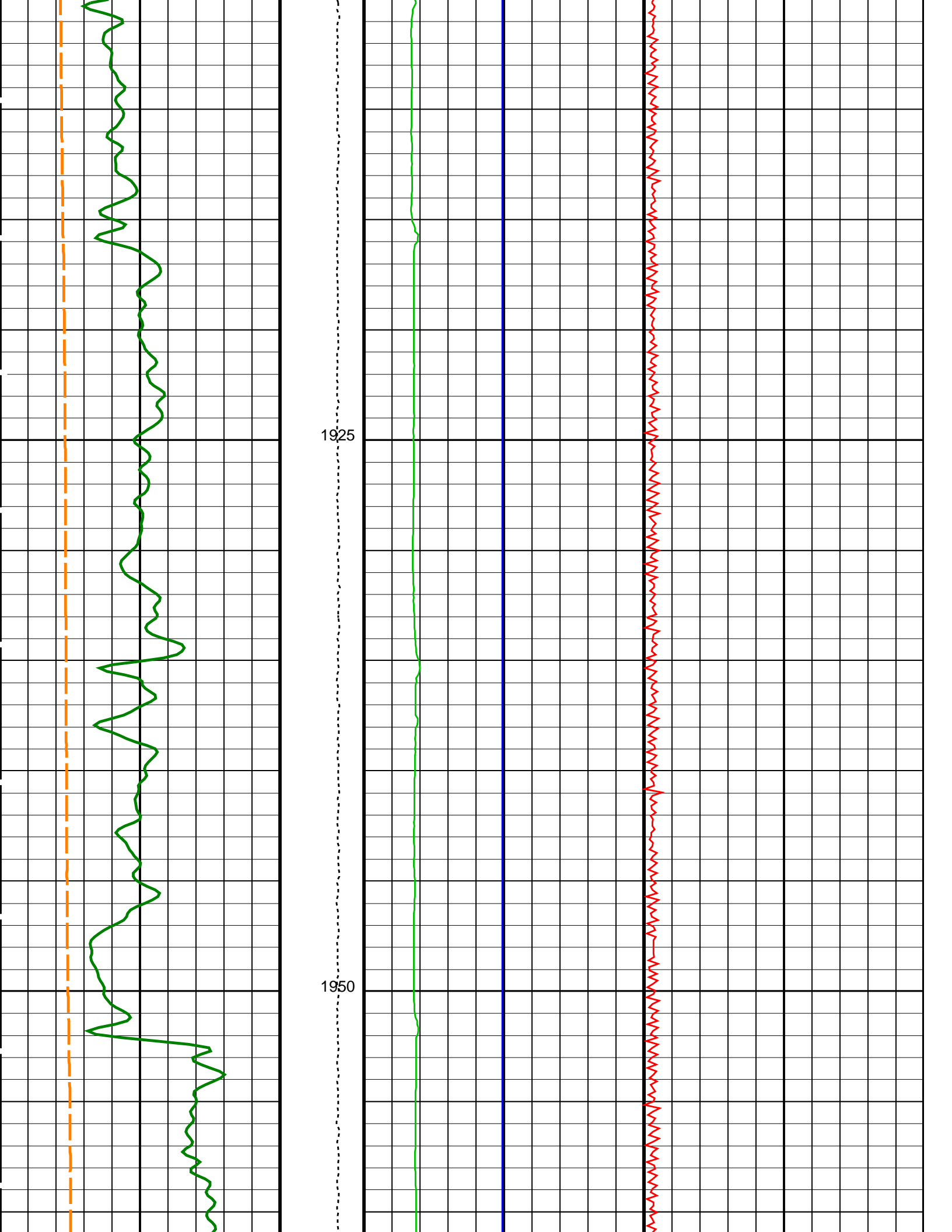


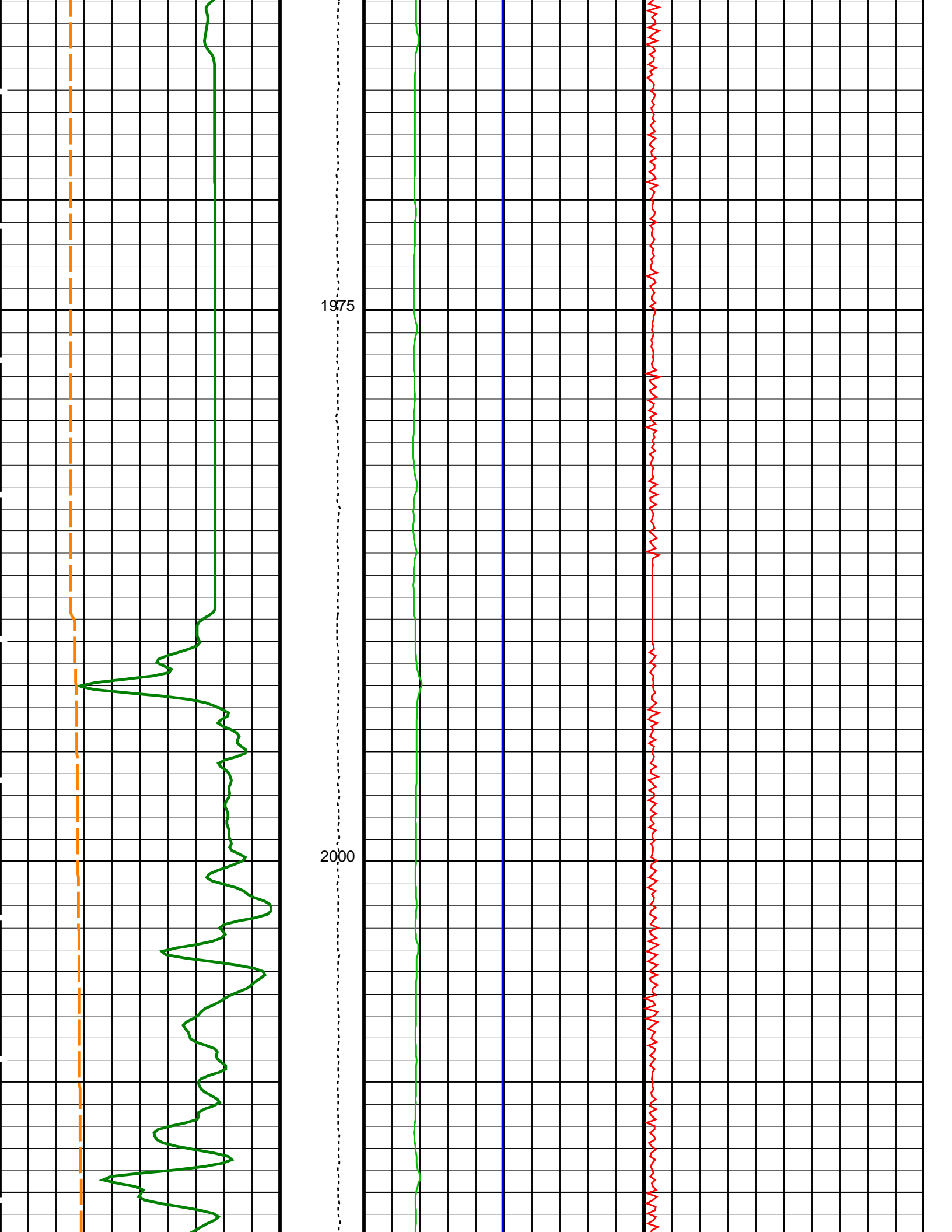
1800

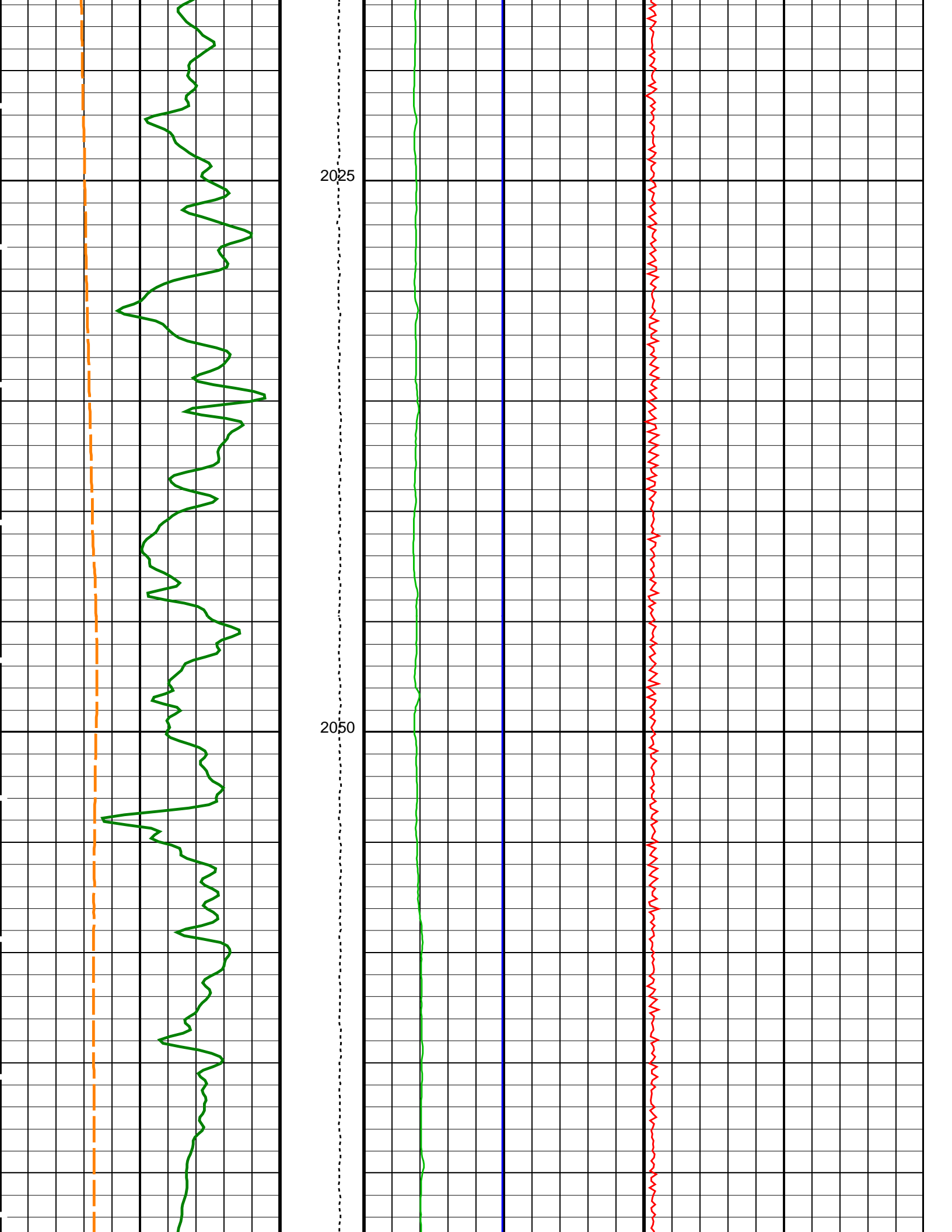
1825

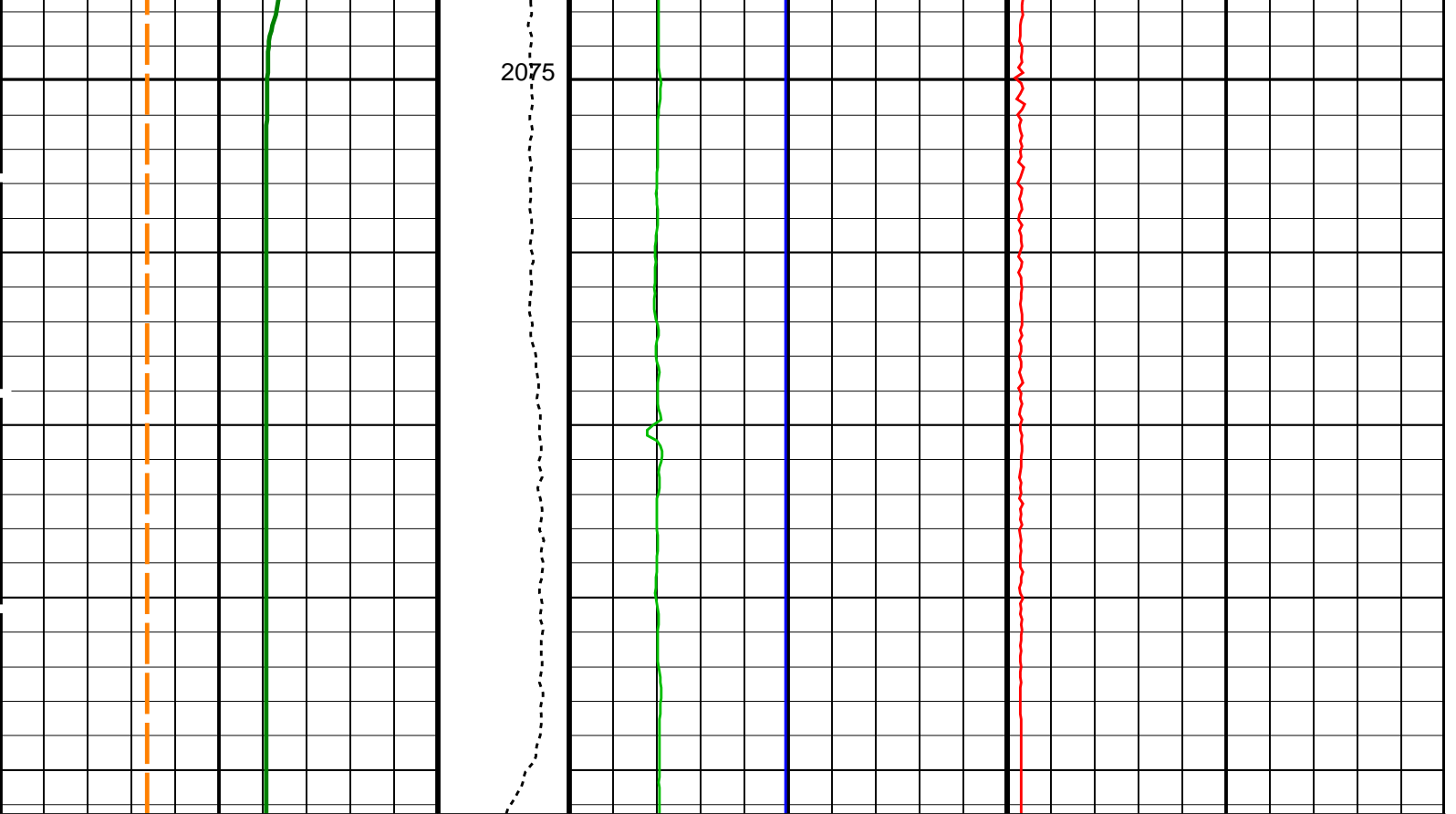












Mud temperature (MTEM) (DEGC)	Tension (TENS) (LBF)	Axial Acceleration (MSSZACC_LDEO) (M/S2)
0 100	0 5000	0 20
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	High-Res Susceptibility (MSSHSUS_LDEO) (PPM)	Dual-Coil Susceptibility (MSSLSUS_LDEO) (PPM)
0 150	-10000 90000	-10000 90000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
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
BHS	Borehole Status	OPEN
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	NONE
GCSE	Generalized Caliper Selection	LCAL
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00175334
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	CENT
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01115

VBAZ	HNGS Detector 2 Variable Barite Factor Running Average	1.03111	
BHS	EDTC-B: Enhanced DTS Cartridge		
GCSE	Borehole Status	OPEN	
	Generalized Caliper Selection	LCAL	
BS	System and Miscellaneous		
DFD	Bit Size	11.438	IN
DO	Drilling Fluid Density	1.26	G/C3
PP	Depth Offset for Playback	0.0	M
	Playback Processing	RECOMPUTE	

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 30-Sep-2019 18:08

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Input DLIS Files

DEFAULT	Splice_MSS_LDEO_012CUP	FN:1	PRODUCER	30-Sep-2019 18:07	2096.3 M	1589.0 M
---------	------------------------	------	----------	-------------------	----------	----------

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:15	PRODUCER	30-Sep-2019 18:08		
RTB	MSS_LDEO_HRLA_LDL_013PUP	FN:16	PRODUCER	30-Sep-2019 18:08		



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-318.5	-318.2	0.3669	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-332.8	-330.8	1.979	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-340.5	-338.5	2.012	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-330.4	-328.9	1.497	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-320.3	-319.7	0.5940	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-322.1	-321.6	0.5436	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	322.8	321.0	-1.837	9.681	UV
HRLT M0-M1 Voltage Plus - 7	0	N/A	-322.7	-322.7	0	9.681	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M12							
Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1742	1738	-4.089	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1827	1814	-12.93	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1862	1849	-13.12	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1805	1795	-10.46	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1749	1743	-5.302	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1759	1754	-4.900	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1780	-1768	12.01	53.42	UV
HRLT M1-M2 Voltage Plus - 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M23							
Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1733	1730	-3.140	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1828	1815	-12.73	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1866	1853	-12.80	53.42	UV

HRLT M2-M3 Voltage Plus - 3	0	N/A	1813	1803	-10.17	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1750	1745	-4.753	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1761	1757	-4.074	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1771	-1759	12.27	53.42	UV
HRLT M2-M3 Voltage Plus - 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V34

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT A3-A4 Voltage Plus - 0	0	N/A	68650	68550	-95.97	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	72250	71780	-470.0	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	74000	73540	-465.0	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	72180	71810	-371.9	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69640	69490	-153.8	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	70130	69970	-167.6	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-68990	-68570	418.7	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT A4-A5 Voltage Plus - 0	0	N/A	68740	68640	-96.60	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	72450	71990	-461.8	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	74190	73730	-456.8	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	72340	71960	-379.5	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69750	69590	-154.4	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70230	70070	-161.2	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-69190	-68780	416.1	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT A5-A6 Voltage Plus - 0	0	N/A	68590	68490	-106.6	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	72310	71840	-467.2	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	74060	73570	-490.5	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	72180	71820	-363.6	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69630	69450	-185.8	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	70090	69950	-146.3	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-69040	-68620	416.9	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68110	-68010	93.45	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-72090	-71650	439.9	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73880	-73420	460.6	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-72090	-71730	355.9	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69560	-69420	145.5	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70030	-69880	142.2	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	68790	68380	-404.9	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68140	-68040	95.25	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-72200	-71740	455.5	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73970	-73500	469.2	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-72150	-71800	347.9	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69610	-69460	146.8	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70060	-69920	137.9	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68890	68470	-419.7	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT Source Current Plus - 0	0	N/A	284.2	283.9	-0.3202	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 30-Sep-2019 14:38 After: 30-Sep-2019 19:06

HRLT Vertical Voltage PI - 0	0	N/A	-320.4	-320.1	0.2830	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-327.6	-325.7	1.856	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-334.1	-332.1	1.963	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-322.3	-320.9	1.401	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-309.5	-308.9	0.5466	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-326.2	-325.7	0.4918	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	330.6	328.7	-1.911	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	328.5	328.5	0	9.681	UV

HRLT Vertical Voltage PI -	7	0	N/A	-322.7	0	9.681	UV
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 16-Sep-2019 4:22 Before: 30-Sep-2019 14:42 After: 30-Sep-2019 19:26							
SS Cs Resolution Bkg	9.000	8.152	8.093	8.048	-0.04543	1.800	%
LS Cs Resolution Bkg	9.000	8.165	8.168	8.166	-0.002531	1.800	%
LSW1 Background	100.0	62.27	61.58	61.50	-0.08066	3.000	CPS
LSW2 Background	100.0	57.89	56.79	56.22	-0.5670	3.000	CPS
LSW3 Background	200.0	126.4	126.0	126.0	-0.01427	6.000	CPS
LSW4 Background	250.0	151.9	151.1	150.3	-0.7482	7.500	CPS
LSW5 Background	600.0	346.4	348.5	350.4	1.889	18.00	CPS
SSW1 Background	100.0	69.95	69.75	68.45	-1.306	3.000	CPS
SSW2 Background	200.0	123.2	123.5	123.8	0.3661	6.000	CPS
SSW3 Background	500.0	329.5	332.0	330.8	-1.168	15.00	CPS
SSW4 Background	270.0	172.2	171.1	171.8	0.7281	8.100	CPS
SSW5 Background	200.0	126.4	124.7	126.2	1.515	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement							
Master: 16-Sep-2019 4:47							
LSW1 Aluminum	600.0	465.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	668.6	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	809.1	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	406.3	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	374.0	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2095	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5753	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8021	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3302	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	406.0	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement							
Master: 16-Sep-2019 4:41							
LSW1 Iron	400.0	319.0	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	542.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	715.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	368.2	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	340.7	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1536	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4807	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7332	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3025	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	362.5	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 16-Sep-2019 5:46							
HLDS Caliper Small Ring	12.00	N/A	14.79	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	18.07	N/A	N/A	N/A	IN
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 18-Aug-2019 15:27 Before: 30-Sep-2019 21:07 After: 1-Oct-2019 2:58							
Na 511 Peak Loc	40.00	39.62	37.49	37.42	-0.06720	1.000	
Na 511 Peak Res	15.50	14.85	16.83	17.08	0.2512	2.000	%
High Voltage	1150	1182	1213	1215	2.230	N/A	V
Na 1785 Peak Loc	142.6	142.6	135.3	136.0	0.6954	7.000	
Na 1785 Peak Res	8.500	8.521	8.638	9.068	0.4304	2.000	%
Temperature	15.50	18.29	34.82	34.40	-0.4194	N/A	DEGC
Na Count Rate	45.00	17.57	16.07	15.85	-0.2223	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 18-Aug-2019 15:27 Before: 30-Sep-2019 21:07 After: 1-Oct-2019 2:58							
Na 511 Peak Loc	40.00	39.65	39.61	39.61	0.005054	1.000	
Na 511 Peak Res	15.50	15.15	16.30	16.64	0.3410	2.000	%
High Voltage	1150	1105	1147	1148	0.7997	N/A	V
Na 1785 Peak Loc	142.6	141.6	141.8	142.4	0.5772	7.000	
Na 1785 Peak Res	8.500	8.425	9.757	9.217	-0.5399	2.000	%
Temperature	15.50	18.67	36.49	36.50	0.01271	N/A	DEGC
Na Count Rate	45.00	17.43	15.90	16.02	0.1256	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 18-Aug-2019 15:27 Before: 30-Sep-2019 21:07 After: 1-Oct-2019 2:58							
Coincidence Count Rate Ratio	1.000	1.008	1.004	0.9776	-0.02686	0.05000	
Enhanced DTS Cartridge Wellsite Calibration - EDTC Accelerometer Calibration							
Before: 30-Sep-2019 21:02							
EDTC Z-Axis Acceleration	9.810	N/A	9.749	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration - Detector Calibration							
Before: Calibration out of date 18-Aug-2019 15:31 After: 1-Oct-2019 2:54							
Gamma Ray (Jig - Bkg)	129.5	N/A	129.5	124.6	-4.906	11.77	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	157.8	-6.212	15.00	GAPI

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:

HRLT Sonde

HRLS – B

768

Auxiliary Equipment:

HRLT lower Housing

HRLH – B

1869

HRLT Lower Cartridge

HRLC – B

974

HRLT upper Housing

HRUH – B

975

HRLT Upper Cartridge

HRUC – B

964

High Resolution Laterolog Array – B Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-318.5	-322.7	-280.7	-379.7
	After		-318.2			
1	Before		-332.8	-322.7	-280.7	-379.7
	After		-330.8			
2	Before		-340.5	-322.7	-280.7	-379.7
	After		-338.5			
3	Before		-330.4	-322.7	-280.7	-379.7
	After		-328.9			
4	Before		-320.3	-322.7	-280.7	-379.7
	After		-319.7			
5	Before		-322.1	-322.7	-280.7	-379.7
	After		-321.6			
6	Before		322.8	322.7	379.7	280.7
	After		321.0			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
		(Minimum) (Nominal) (Maximum)				
Before: 30-Sep-2019 14:38						
After: 30-Sep-2019 19:06						

High Resolution Laterolog Array – B Wellsite Calibration


HRLT M12

















Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1742	1781	2095	1549
	After		1738			
1	Before		1827	1781	2095	1549
	After		1814			
2	Before		1862	1781	2095	1549
	After		1849			
3	Before		1805	1781	2095	1549
	After		1795			
4	Before		1749	1781	2095	1549
	After		1743			
5	Before		1759	1781	2095	1549
	After		1754			
6	Before		-1780			

















6	After		-1768	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 30-Sep-2019 14:38						
After: 30-Sep-2019 19:06						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1733	1781	2095	1549
	After		1730			
1	Before		1828	1781	2095	1549
	After		1815			
2	Before		1866	1781	2095	1549
	After		1853			
3	Before		1813	1781	2095	1549
	After		1803			
4	Before		1750	1781	2095	1549
	After		1745			
5	Before		1761	1781	2095	1549
	After		1757			
6	Before		-1771	-1781	-1549	-2095
	After		-1759			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 30-Sep-2019 14:38						
After: 30-Sep-2019 19:06						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68650	70000	82360	60900
	After		68550			
1	Before		72250	70000	82360	60900
	After		71780			
2	Before		74000	70000	82360	60900
	After		73540			
3	Before		72180	70000	82360	60900
	After		71810			
4	Before		69640	70000	82360	60900
	After		69490			
5	Before		70130	70000	82360	60900
	After		69970			
6	Before		-68990	-70000	-60900	-82360
	After		-68570			
7	Before		70000			

7	After		70000	70000	82360	60900
			(Minimum)	(Nominal)	(Maximum)	
Before: 30-Sep-2019 14:38						
After: 30-Sep-2019 19:06						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68740	70000	82360	60900
	After		68640			
1	Before		72450	70000	82360	60900
	After		71990			
2	Before		74190	70000	82360	60900
	After		73730			
3	Before		72340	70000	82360	60900
	After		71960			
4	Before		69750	70000	82360	60900
	After		69590			
5	Before		70230	70000	82360	60900
	After		70070			
6	Before		-69190	-70000	-60900	-82360
	After		-68780			
7	Before		70000	70000	82360	60900
	After		70000			
			(Minimum)	(Nominal)	(Maximum)	
Before: 30-Sep-2019 14:38						
After: 30-Sep-2019 19:06						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68590	70000	82360	60900
	After		68490			
1	Before		72310	70000	82360	60900
	After		71840			
2	Before		74060	70000	82360	60900
	After		73570			
3	Before		72180	70000	82360	60900
	After		71820			
4	Before		69630	70000	82360	60900
	After		69450			
5	Before		70090	70000	82360	60900
	After		69950			
6	Before		-69040	-70000	-60900	-82360
	After		-68620			
7	Before		70000	70000	82360	60900
	After		70000			
			(Minimum)	(Nominal)	(Maximum)	

Before: 30-Sep-2019 14:38
 After: 30-Sep-2019 19:06

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VTP							
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68110	-70000	-60900	-82360	
	After		-68010				
1	Before		-72090	-70000	-60900	-82360	
	After		-71650				
2	Before		-73880	-70000	-60900	-82360	
	After		-73420				
3	Before		-72090	-70000	-60900	-82360	
	After		-71730				
4	Before		-69560	-70000	-60900	-82360	
	After		-69420				
5	Before		-70030	-70000	-60900	-82360	
	After		-69880				
6	Before		68790	70000	82360	60900	
	After		68380				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
		(Minimum) (Nominal) (Maximum)					

Before: 30-Sep-2019 14:38
 After: 30-Sep-2019 19:06

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68140	-70000	-60900	-82360	
	After		-68040				
1	Before		-72200	-70000	-60900	-82360	
	After		-71740				
2	Before		-73970	-70000	-60900	-82360	
	After		-73500				
3	Before		-72150	-70000	-60900	-82360	
	After		-71800				
4	Before		-69610	-70000	-60900	-82360	
	After		-69460				
5	Before		-70060	-70000	-60900	-82360	
	After		-69920				
6	Before		68890	70000	82360	60900	
	After		68470				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
		(Minimum) (Nominal) (Maximum)					

Before: 30-Sep-2019 14:38
 After: 30-Sep-2019 19:06

High Resolution Laterolog Array – B Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.2	284.0	334.1	247.0
	After		283.9			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
		(Minimum) (Nominal) (Maximum)				

Before: 30-Sep-2019 14:38

After: 30-Sep-2019 19:06

High Resolution Laterolog Array – B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.4	-322.7	-280.7	-379.7
	After		-320.1			
1	Before		-327.6	-322.7	-280.7	-379.7
	After		-325.7			
2	Before		-334.1	-322.7	-280.7	-379.7
	After		-332.1			
3	Before		-322.3	-322.7	-280.7	-379.7
	After		-320.9			
4	Before		-309.5	-322.7	-280.7	-379.7
	After		-308.9			
5	Before		-326.2	-322.7	-280.7	-379.7
	After		-325.7			
6	Before		330.6	322.7	379.7	280.7
	After		328.7			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
		(Minimum) (Nominal) (Maximum)				

Before: 30-Sep-2019 14:38

After: 30-Sep-2019 19:06

Primary Equipment:		
Gamma Source Radioactive	GSR – ZA	2945
Hostile Litho Density Sonde	HLDS – D	35
Hostile Litho Density High Voltage	HLDV – D	35
Auxiliary Equipment:		
Hostile Litho Density High Voltage Housi	HEH – H	35
Hostile Litho Density Pad	HLDP – C	35

Hostile Litho-Density Sonde Wellsite Calibration								
Background Measurement								
Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value
Master		8.152	Master		8.165	Master		62.27
Before		8.093	Before		8.168	Before		61.58
After		8.048	After		8.166	After		61.50
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		57.89	Master		126.4	Master		151.9
Before		56.79	Before		126.0	Before		151.1
After		56.22	After		126.0	After		150.3
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)			140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		346.4	Master		69.95	Master		123.2
Before		348.5	Before		69.75	Before		123.5
After		350.4	After		68.45	After		123.8
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		329.5	Master		172.2	Master		126.4
Before		332.0	Before		171.1	Before		124.7
After		330.8	After		171.8	After		126.2
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	
Master: 16-Sep-2019 4:22			Before: 30-Sep-2019 14:42			After: 30-Sep-2019 19:26		

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC – B	326
Auxiliary Equipment:		
LDSC Housing	LDSH – A	303

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC – B	304
Auxiliary Equipment:		
HNGC Housing	HNGH – A	3

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS – BA	99
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH – BA	102


Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 1 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		39.62	Master		14.85	Master		1182	
Before	 EXCEEDS LIMIT	37.49	Before		16.83	Before		1213	
After	 EXCEEDS LIMIT	37.42	After		17.08	After		1215	
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master	 MASTER-BEFORE LIMIT	142.6	Master		8.521	Master		18.29	
Before		135.3	Before		8.638	Before		34.82	
After		136.0	After		9.068	After		34.40	
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS	Value							
Master		17.57							
Before		16.07							
After		15.85							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 18-Aug-2019 15:27			Before: 30-Sep-2019 21:07			After: 1-Oct-2019 2:58			







Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 2 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		39.65	Master		15.15	Master		1105	
Before		39.61	Before		16.30	Before		1147	
After		39.61	After		16.64	After		1148	
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		141.6	Master		8.425	Master		18.67	
Before		141.8	Before		9.757	Before		36.49	
After		142.4	After		9.217	After		36.50	
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS	Value							
Master		17.43							
Before		15.90							
After		16.02							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 18-Aug-2019 15:27			Before: 30-Sep-2019 21:07			After: 1-Oct-2019 2:58			

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		1.008	
Before		1.004	
After		0.9776	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 18-Aug-2019 15:27			
Before: 30-Sep-2019 21:07			
After: 1-Oct-2019 2:58			

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:		
EDTC Gamma Ray Detector	EDTG – A/B	8305
Enhanced DTS Cartridge	EDTC – B	8317
Auxiliary Equipment:		
EDTC Housing	EDTH – B	8303

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.749
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 30-Sep-2019 21:02		

Enhanced DTS Cartridge Wellsite Calibration								
Detector Calibration								
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		9.896	Before		129.5	Before		164.0
After		4.253	After		124.6	After		157.8
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			117.7 (Minimum) 129.5 (Nominal) 141.3 (Maximum)			149.0 (Minimum) 164.0 (Nominal) 179.0 (Maximum)	
Before: Calibration out of date 18-Aug-2019 15:31			After: 1-Oct-2019 2:54					

Company: **International Ocean Discovery Program**



Well: **Expedition 385, Site U1545A**
 Field: **Guaymas Basin Tectonics and Biosphere**
 Rig: **JOIDES Resolution**
 Country: **Mexico**

High Resolution Laterolog Array (HRLA)
 Natural Gamma Ray, Density (HNGS, HLDS)