

DISCLAIMER

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OTHER SERVICES1

OS1: FMS
OS2: DSI

REMARKS: RUN NUMBER 1

Hole drilled with RCB bottom hole assembly (BHA) at 9.875" BS

Drill pipe set at 2295mbrf (76mbsf)

Fluid type was water-based mud, weighted with barite, displaced in the hole prior to logging.
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; closed inside pipe and while logging down.
Hole size corrections made using caliper measurements for upward passes bit size used for downlog corrections.
AHC used from TD then switched off to facilitate pipe entry.
Caliper closed prior to shutting off compensator and entering pipe or casing.

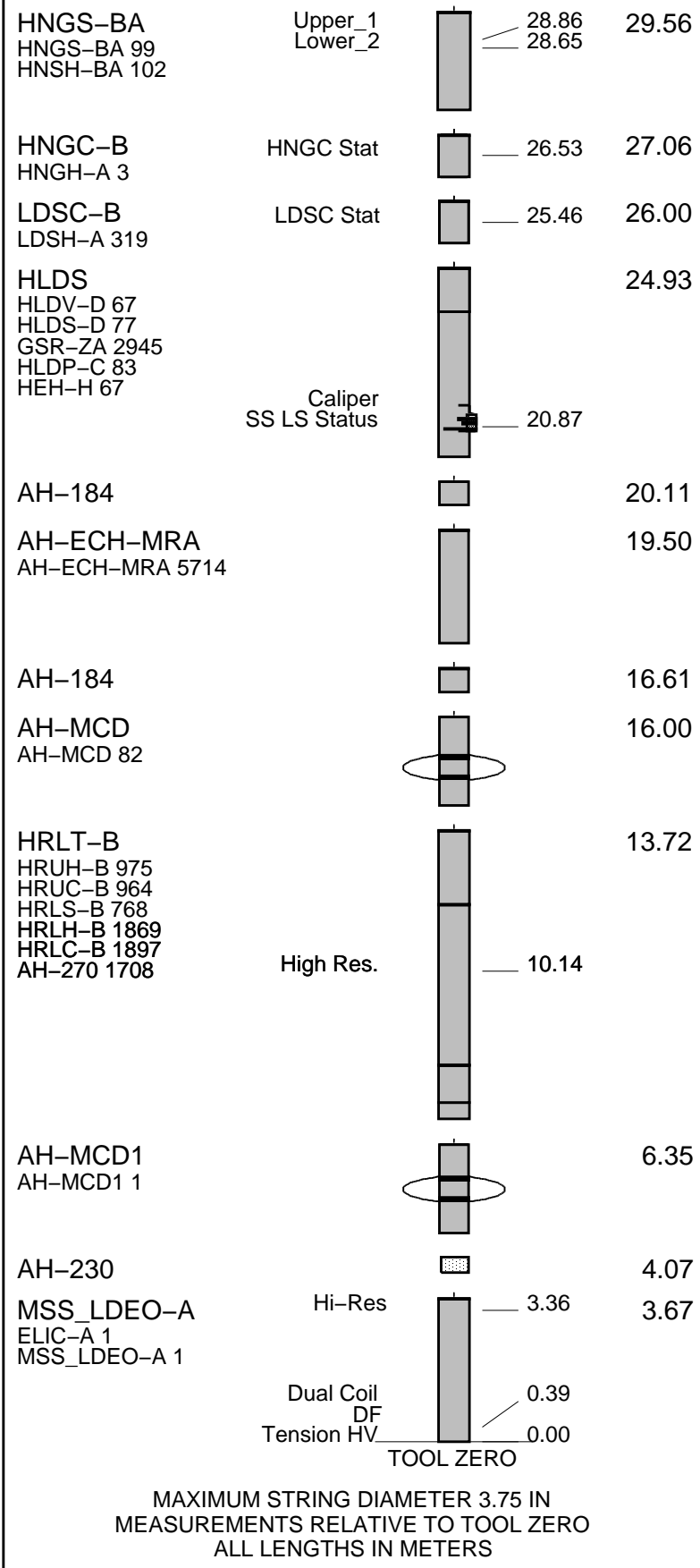
Downlog flipped and note the caliper closed logging down.

Table with columns for RUN 1 and RUN 2, including SERVICE ORDER #, PROGRAM VERSION, FLUID LEVEL, LOGGED INTERVAL, START, and STOP.

EQUIPMENT DESCRIPTION

Table for SURFACE EQUIPMENT with columns for RUN 1 and RUN 2.

Table for DOWNHOLE EQUIPMENT listing items like LEH-QT, AH-369, DTC-H, ECH-KC 9842 with associated icons and values.



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

Kelly Bushing Elevation

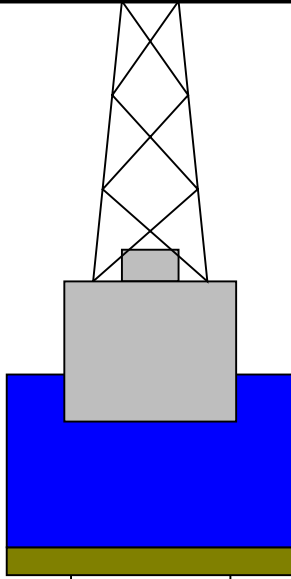
Derrick Floor Elevation

Mean Sea Level

0.0

0.0

11.1



0.0

5.500

4.125



2219.0

9.875

2295.0

5.500

4.125

2419.0

9.875

Driller's Sea Floor

Pipe Depth

Driller's TD

Schlumberger

Downlog

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1570D

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_LDL_025LUP	PRODUCER	05-Sep-2021 11:34	2418.4 M	2180.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_026PUP	FN:18	PRODUCER	05-Sep-2021 11:35	2418.4 M	2180.8 M
RTB	MSS_LDEO_HRLA_LDL_026PUP	FN:19	PRODUCER	05-Sep-2021 11:35	2418.4 M	2180.8 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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
(GAPI) 0 50

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
(GAPI) 0 50

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

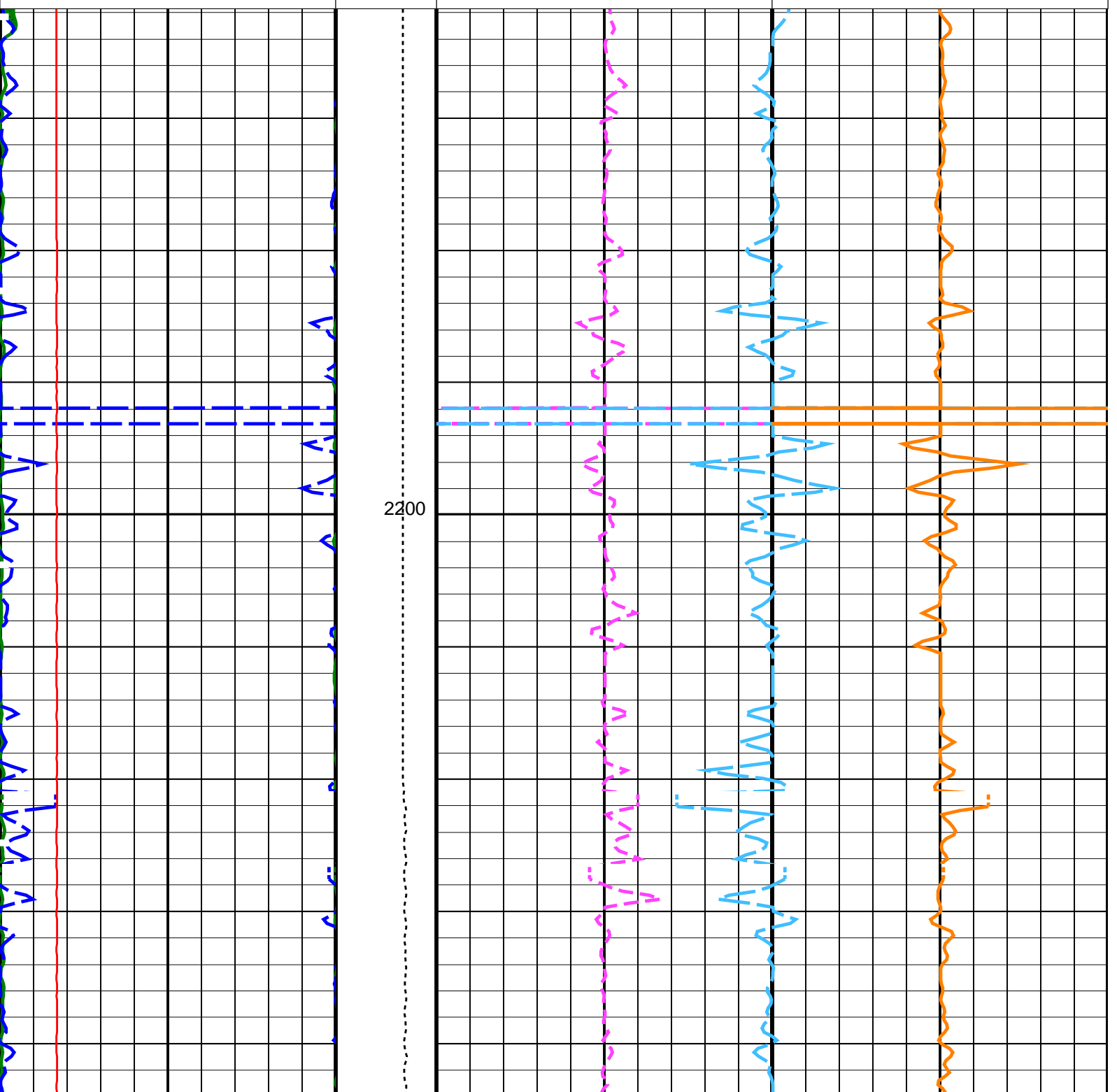
HNGS Uranium (HURA)
(PPM) -5 5

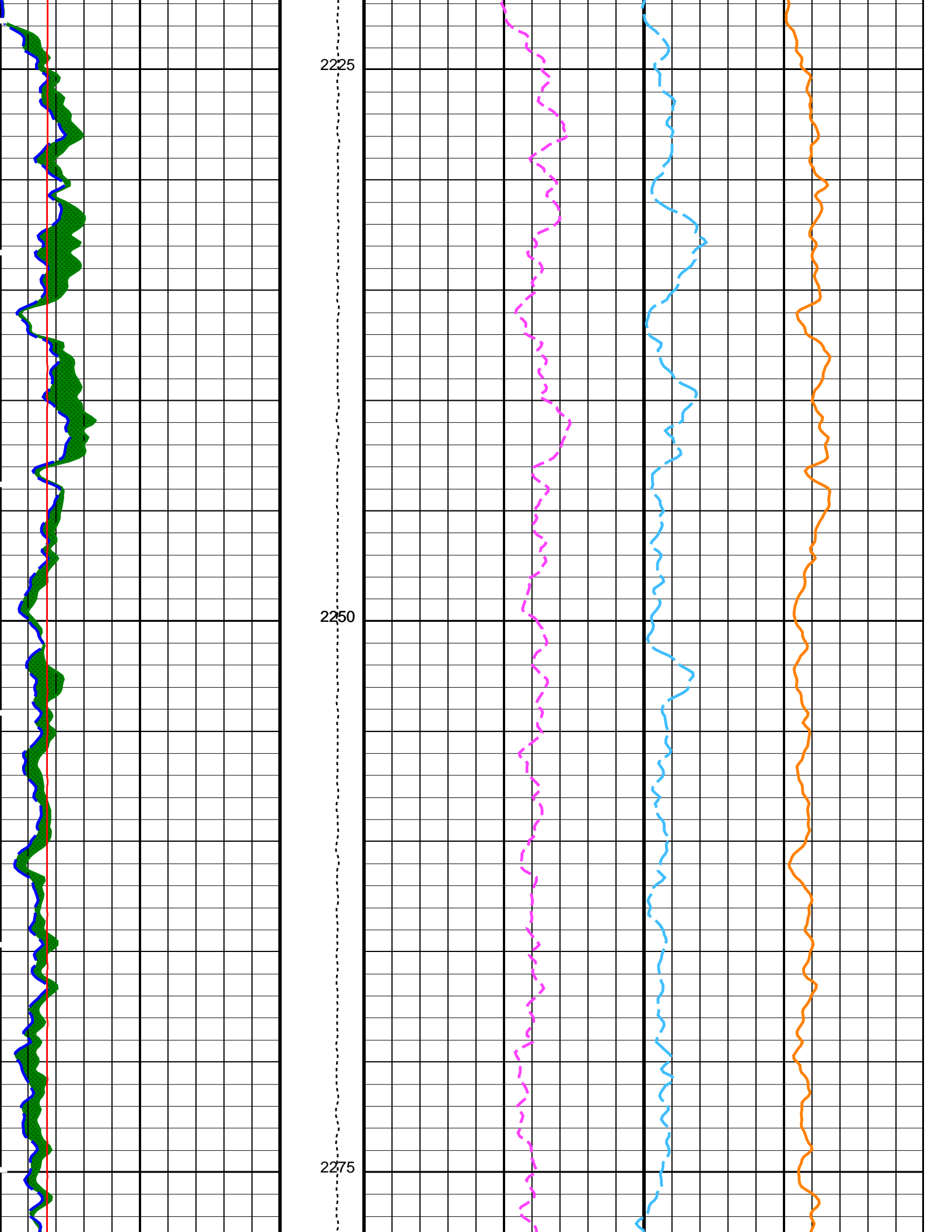
HLDS Caliper (LCAL)
(IN) 0 20

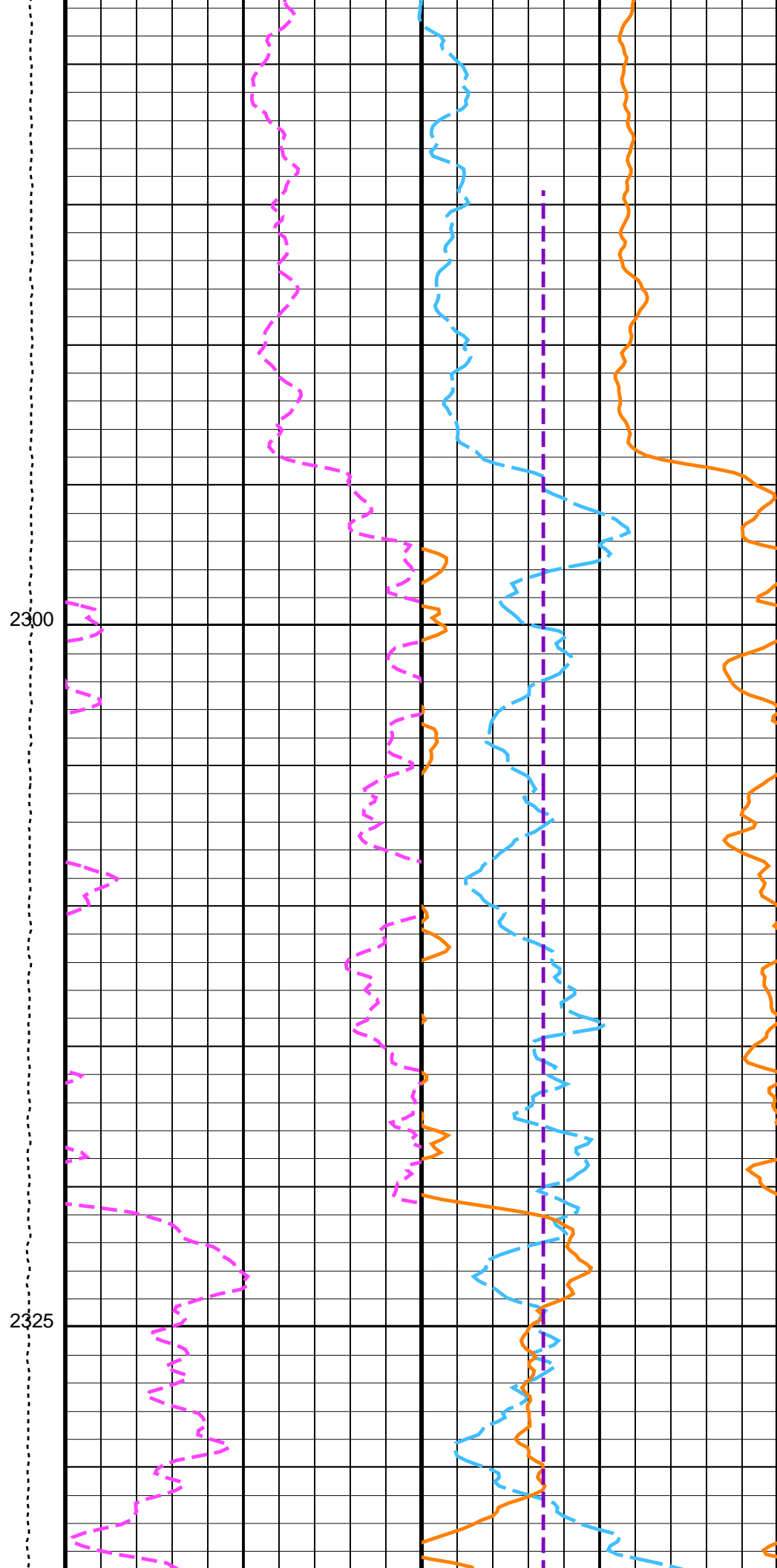
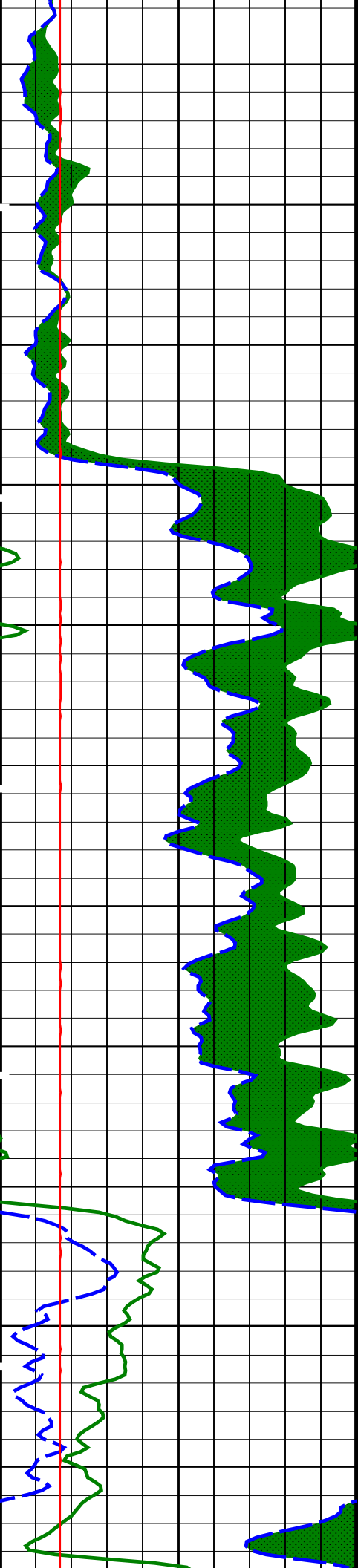
Tension (TENS) (LBF)
10000 0

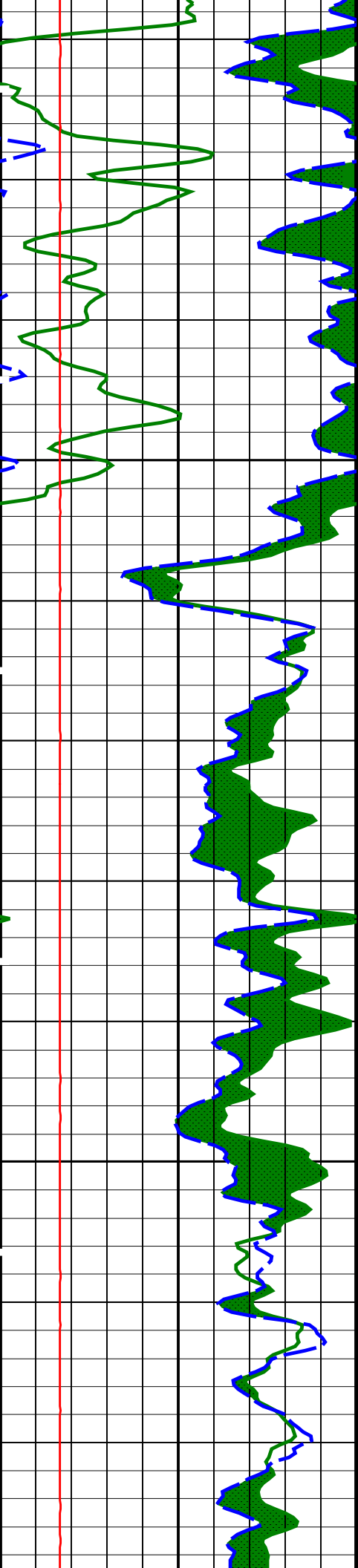
HNGS Thorium (HTHO)
(PPM) -5 5

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



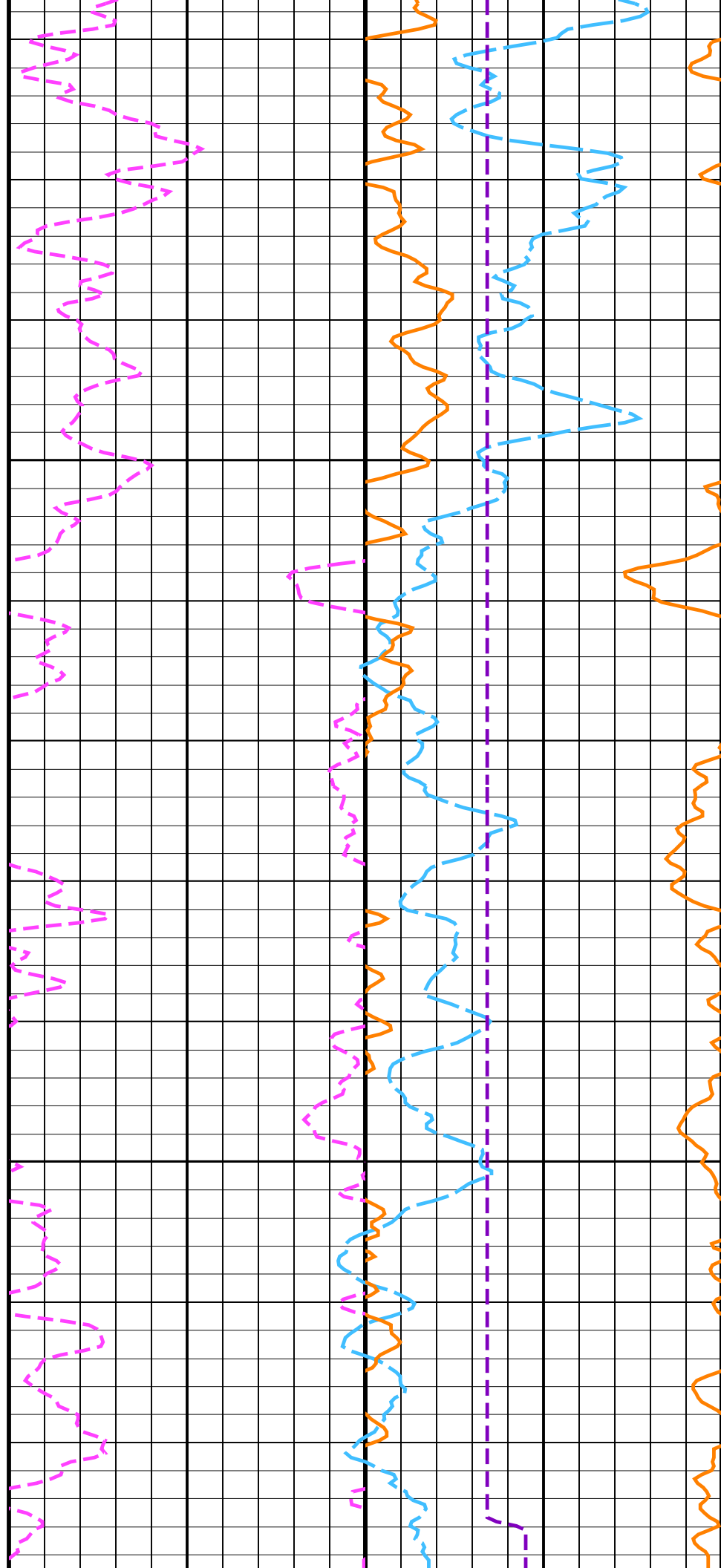


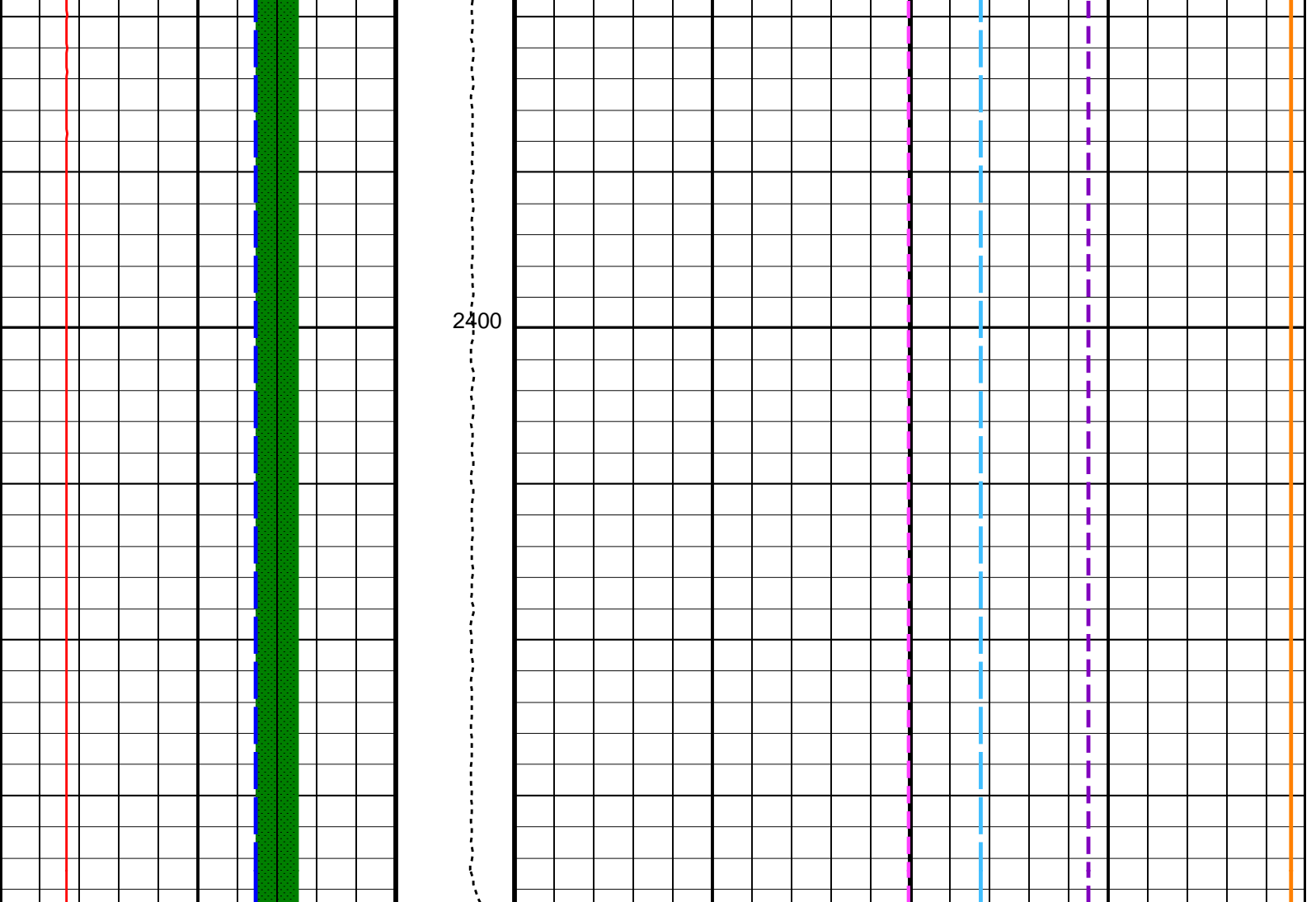




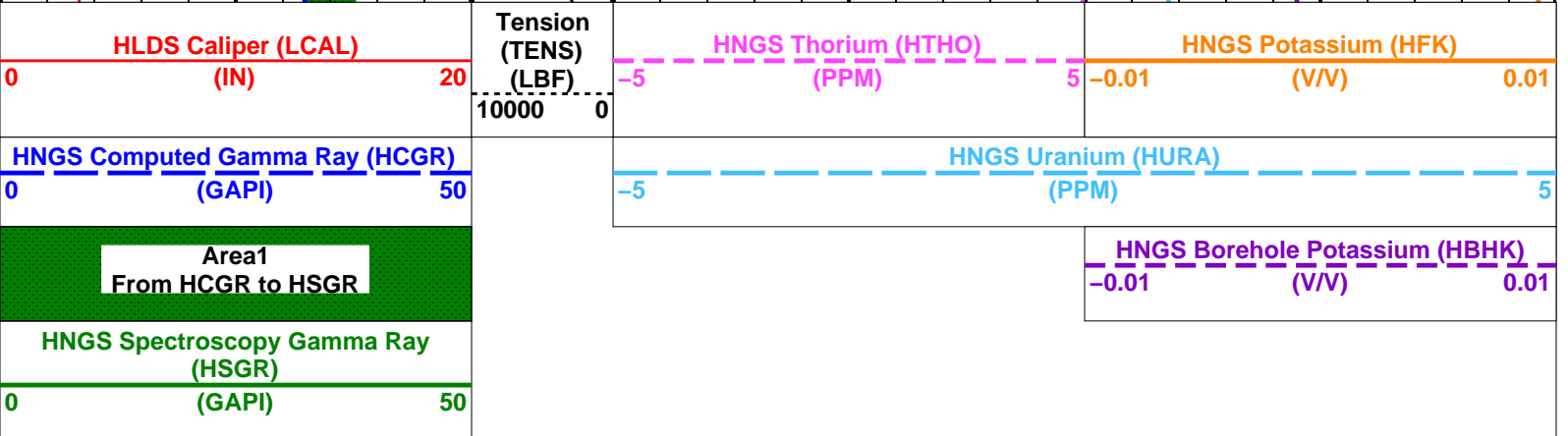
2350

2375





2400



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	BS
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	BS

H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00835459	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
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	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.942886	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963783	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 11:36

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
DTC-H	19C0-187		

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_025LUP	PRODUCER	05-Sep-2021 11:34	2418.4 M	2180.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_026PUP	FN:18	PRODUCER	05-Sep-2021 11:35	
RTB	MSS_LDEO_HRLA_LDL_026PUP	FN:19	PRODUCER	05-Sep-2021 11:35	

Company: International Ocean Discovery Program Well: Expedition 396, Site U1570D

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_025LUP	PRODUCER	05-Sep-2021 11:34	2418.4 M	2180.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_026PUP	FN:18	PRODUCER	05-Sep-2021 11:35	2418.4 M 2180.8 M
RTB	MSS_LDEO_HRLA_LDL_026PUP	FN:19	PRODUCER	05-Sep-2021 11:35	2418.4 M 2180.8 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
DTC-H	19C0-187		

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
		HRLT Resistivity 3 (RLA3)	
0.2		(OHMM)	2000
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150			
Invasion Diameter (DI_HRLT)		HRLT Resistivity 2 (RLA2)	

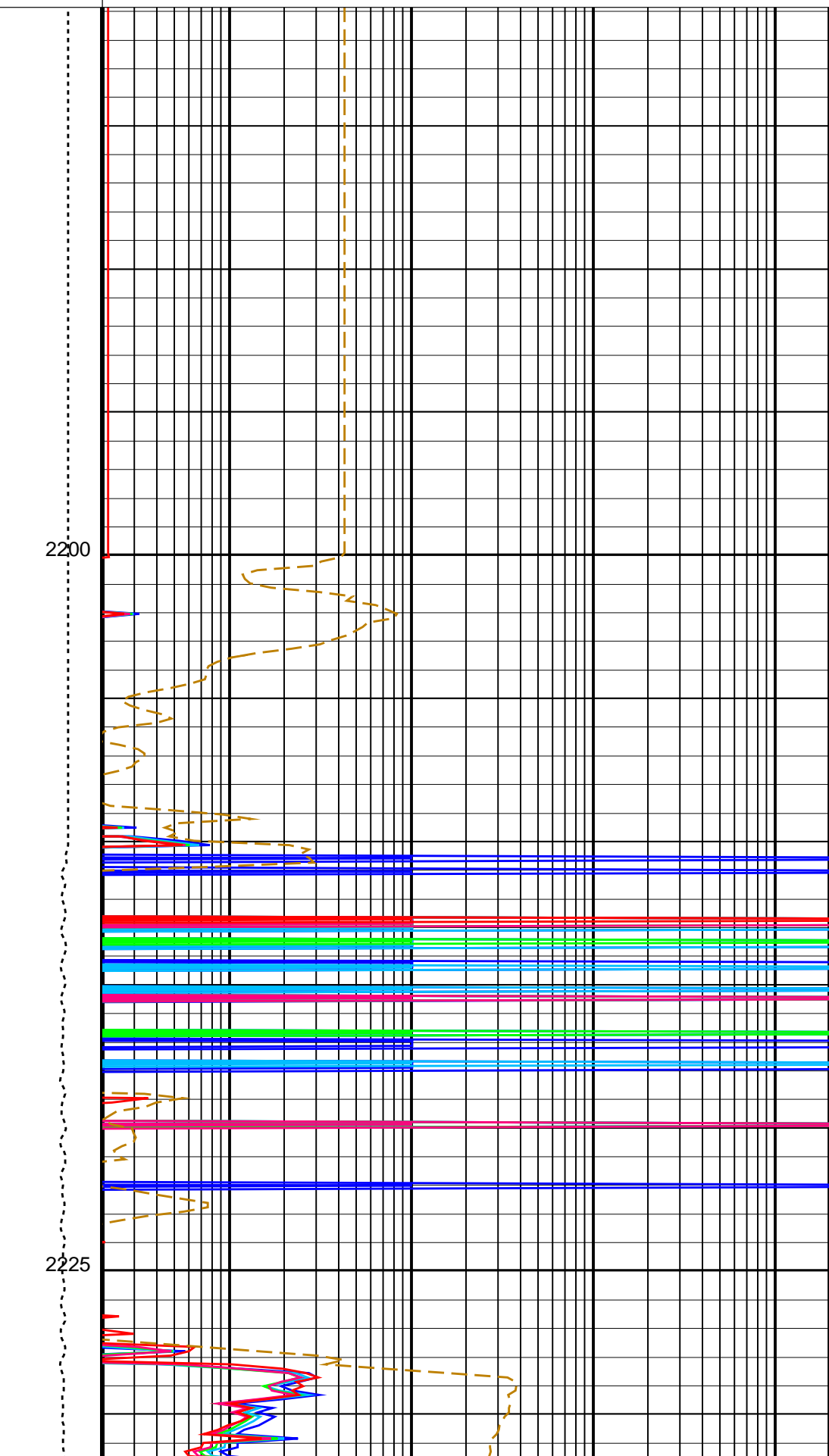
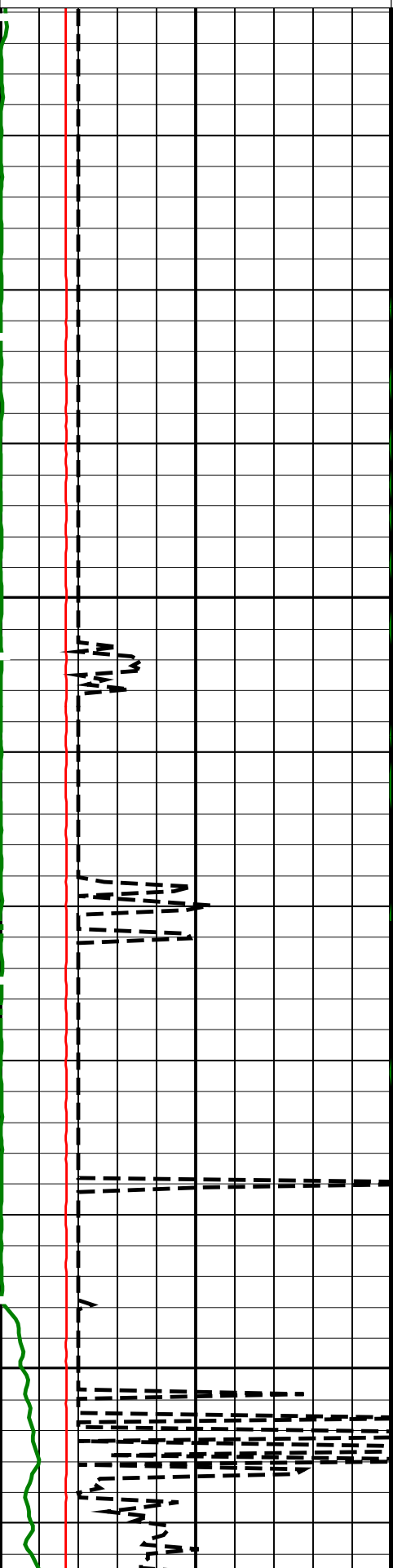
0 (IN) 50

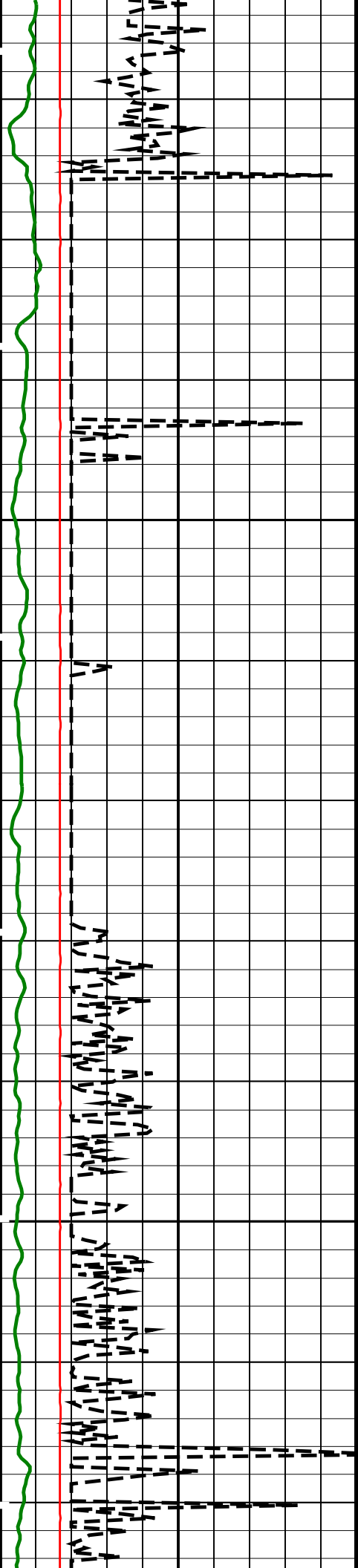
0.2 (OHMM) 2000

HLDS Caliper (LCAL)
(IN) 20

Tension
(TENS)
(LBF) 0 5000

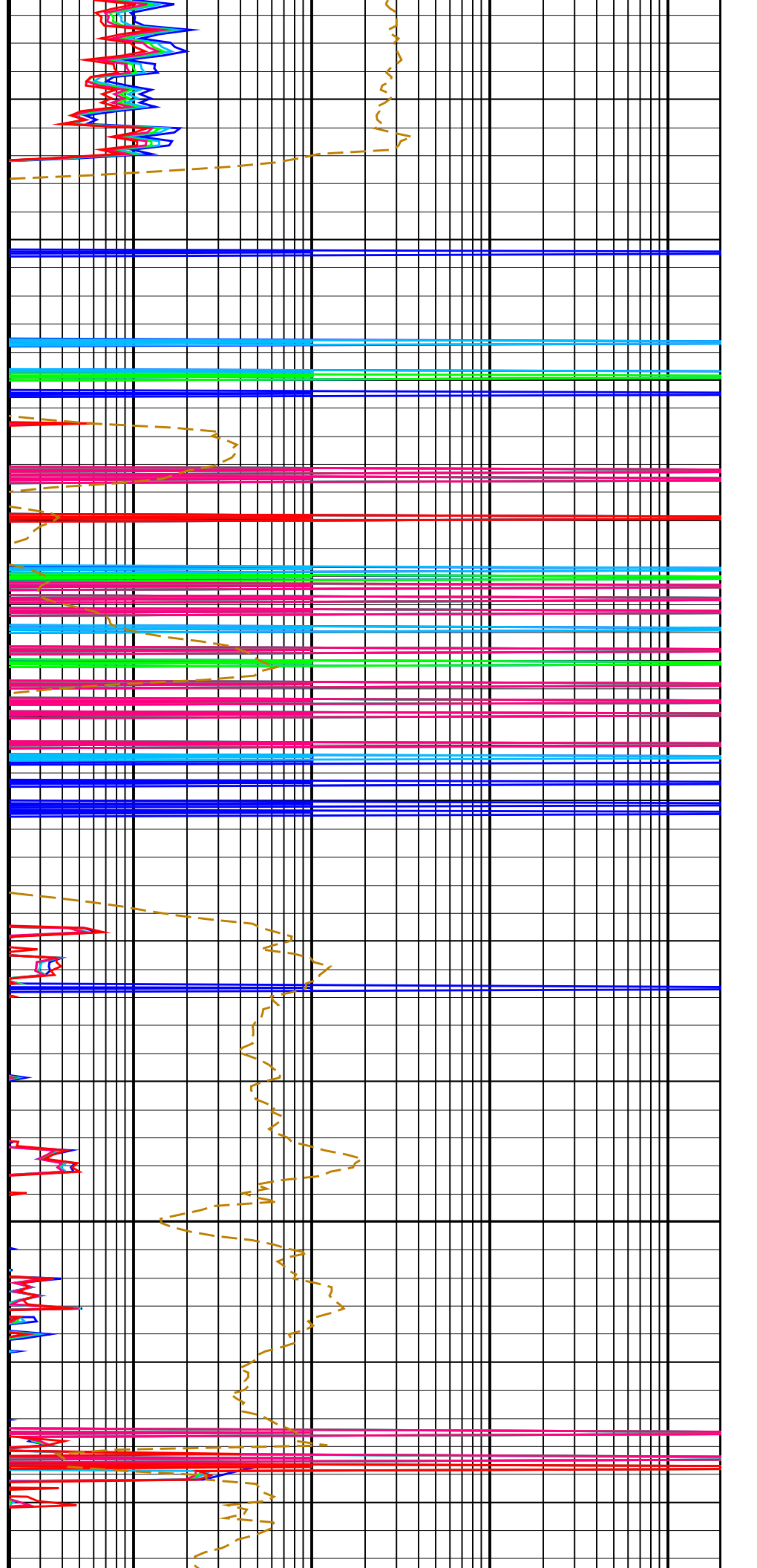
HRLT Resistivity 1 (RLA1)
(OHMM) 2000

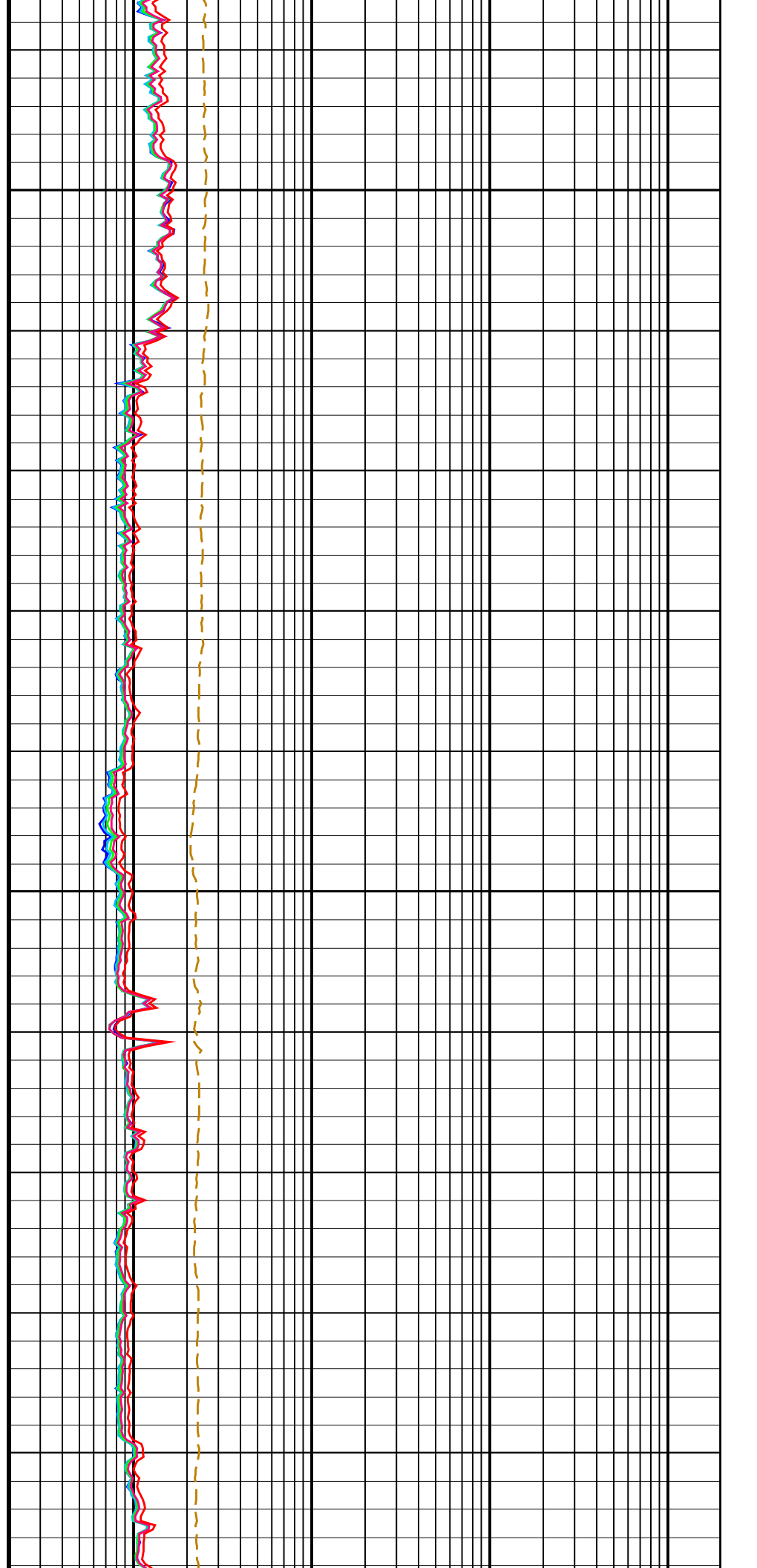
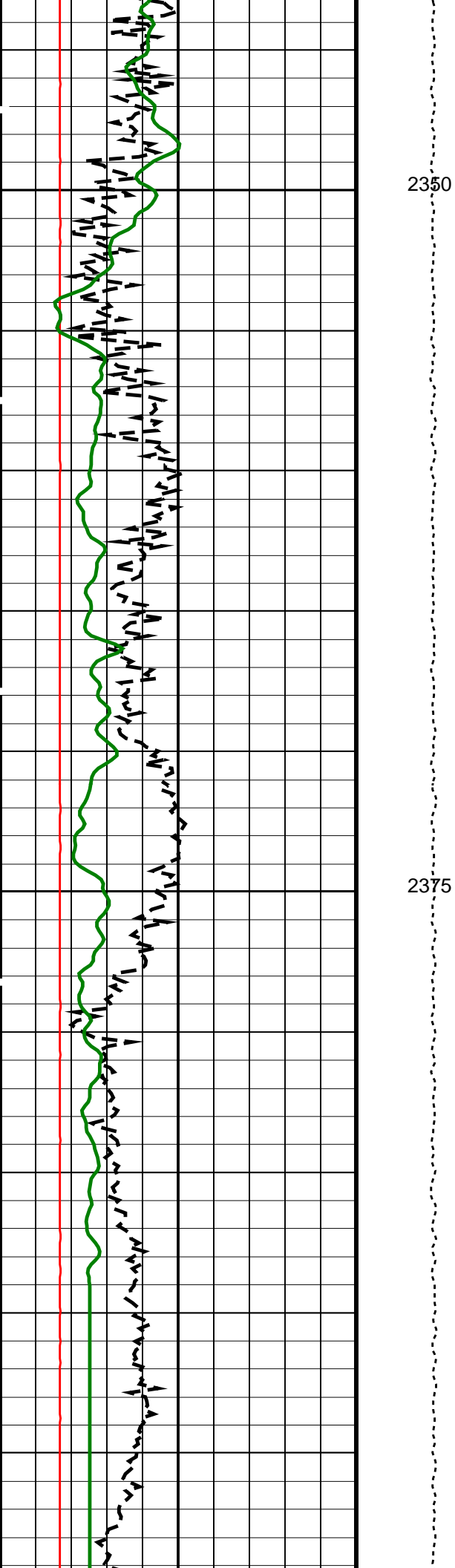


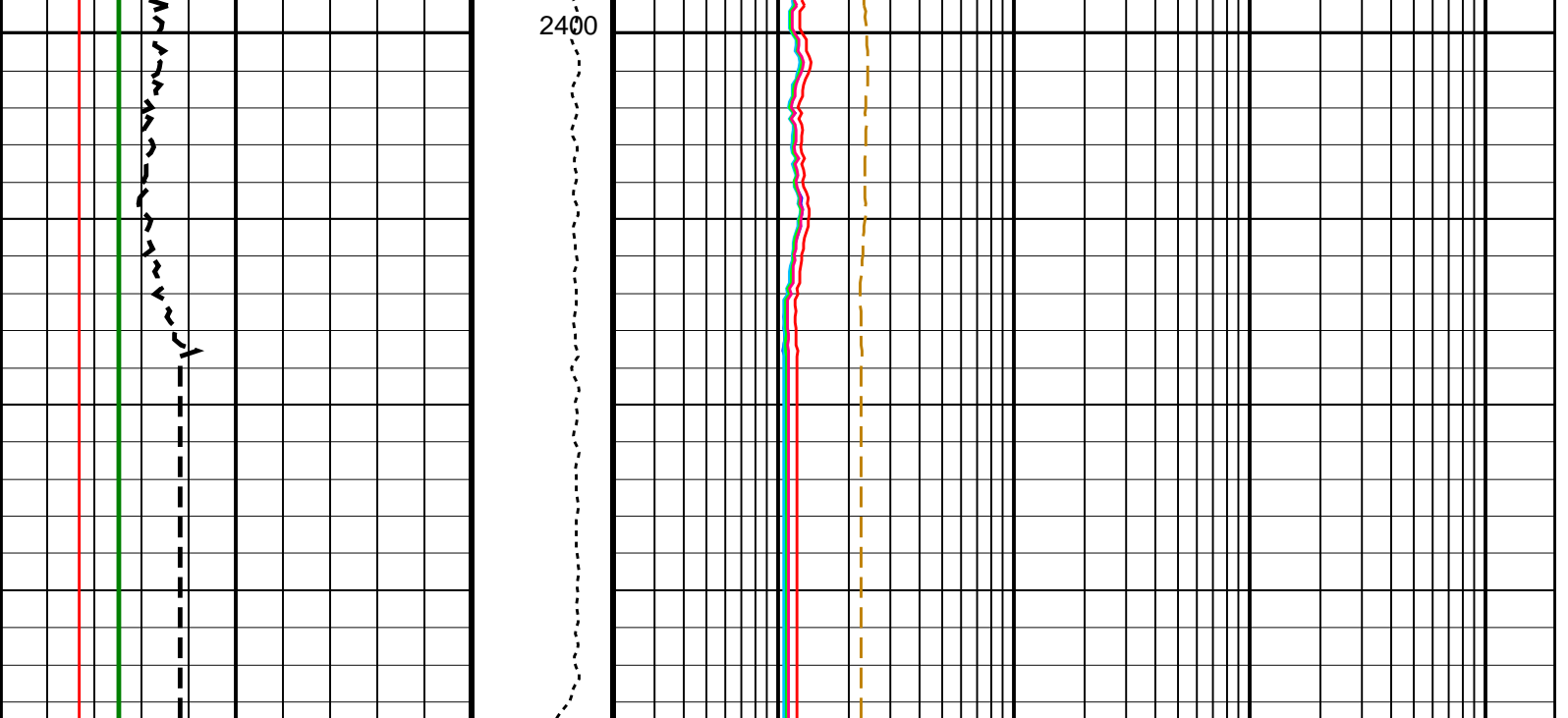


2250

2275







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)	7 DEGC
GCSE	Generalized Caliper Selection	BS
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
PROCVN	Inversion Selection	ON
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO
PROCM50	Mechanical Standoff Fin Size	0 IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute
PROCSPO	Sonde Position	Eccentered
SHT	Surface Hole Temperature	20 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
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	7 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	NONE	
GCSE	Generalized Caliper Selection	BS	
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	-0.00835459	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.942886	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963783	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	
TD	Total Depth	2292	M

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 11:36

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
DTC-H	19C0-187		

Input DLIS Files					
DEFAULT	Flip_MSS_LDEO_HRLA_025LUP	PRODUCER	05-Sep-2021 11:34	2418.4 M	2180.8 M
Output DLIS Files					
DEFAULT	MSS_LDEO_HRLA_LDL_026PUP	FN:18	PRODUCER	05-Sep-2021 11:35	
RTB	MSS_LDEO_HRLA_LDL_026PUP	FN:19	PRODUCER	05-Sep-2021 11:35	

Company: International Ocean Discovery Program Well: Expedition 396, Site U1570D

Input DLIS Files					
DEFAULT	Flip_MSS_LDEO_HRLA_025LUP	PRODUCER	05-Sep-2021 11:34	2418.4 M	2180.8 M
Output DLIS Files					
DEFAULT	MSS_LDEO_HRLA_LDL_026PUP	FN:18	PRODUCER	05-Sep-2021 11:35	2418.4 M
RTB	MSS_LDEO_HRLA_LDL_026PUP	FN:19	PRODUCER	05-Sep-2021 11:35	2418.4 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
DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

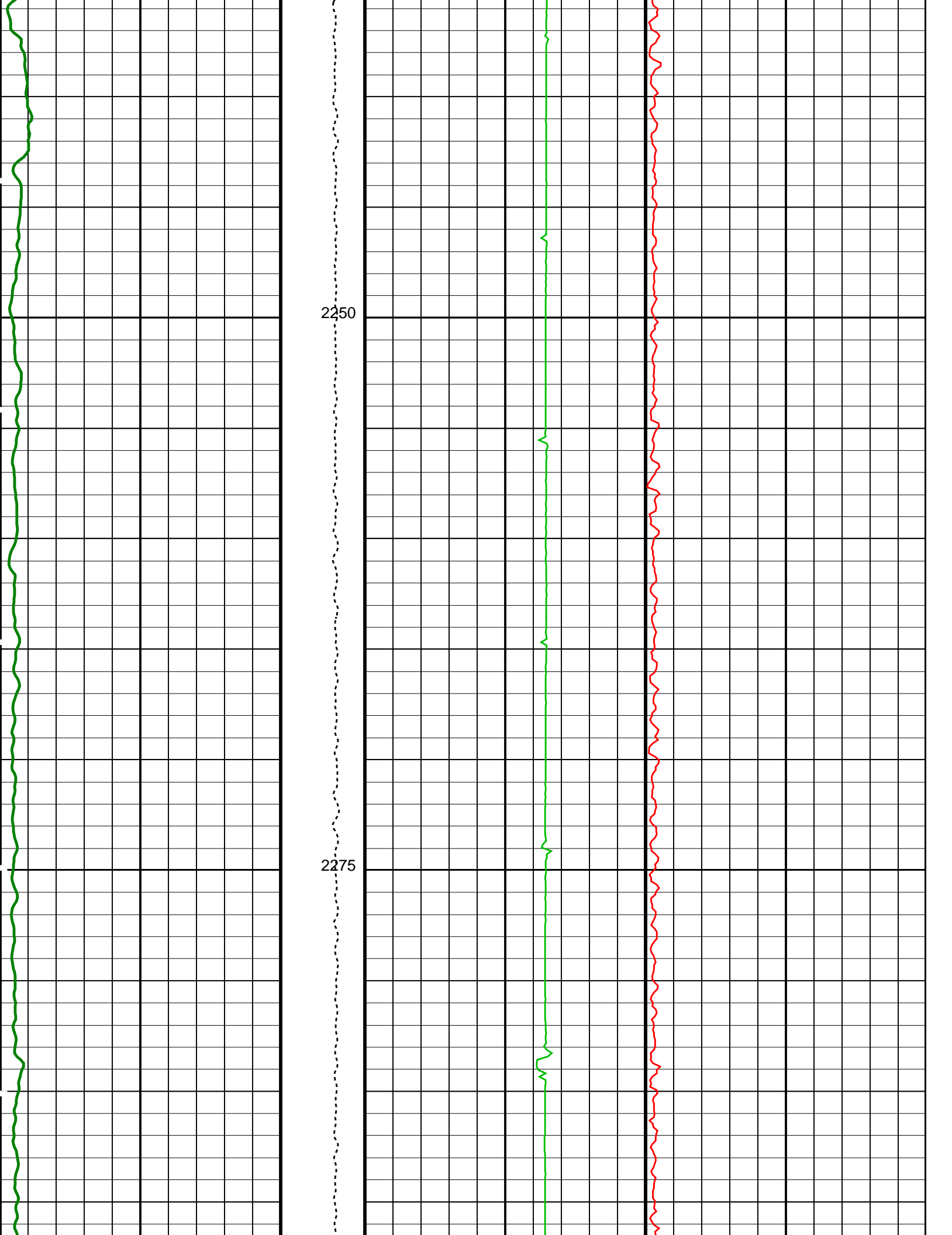
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		-10000	90000
		(PPM)	
		Axial Acceleration (MSSZACC_LDEO)	
		0	20
		(M/S2)	
HNGS Spectroscopy Gamma Ray		Tension	
(HSGR)		(TENS)	
(GAPI)		(LBF)	
0 150			

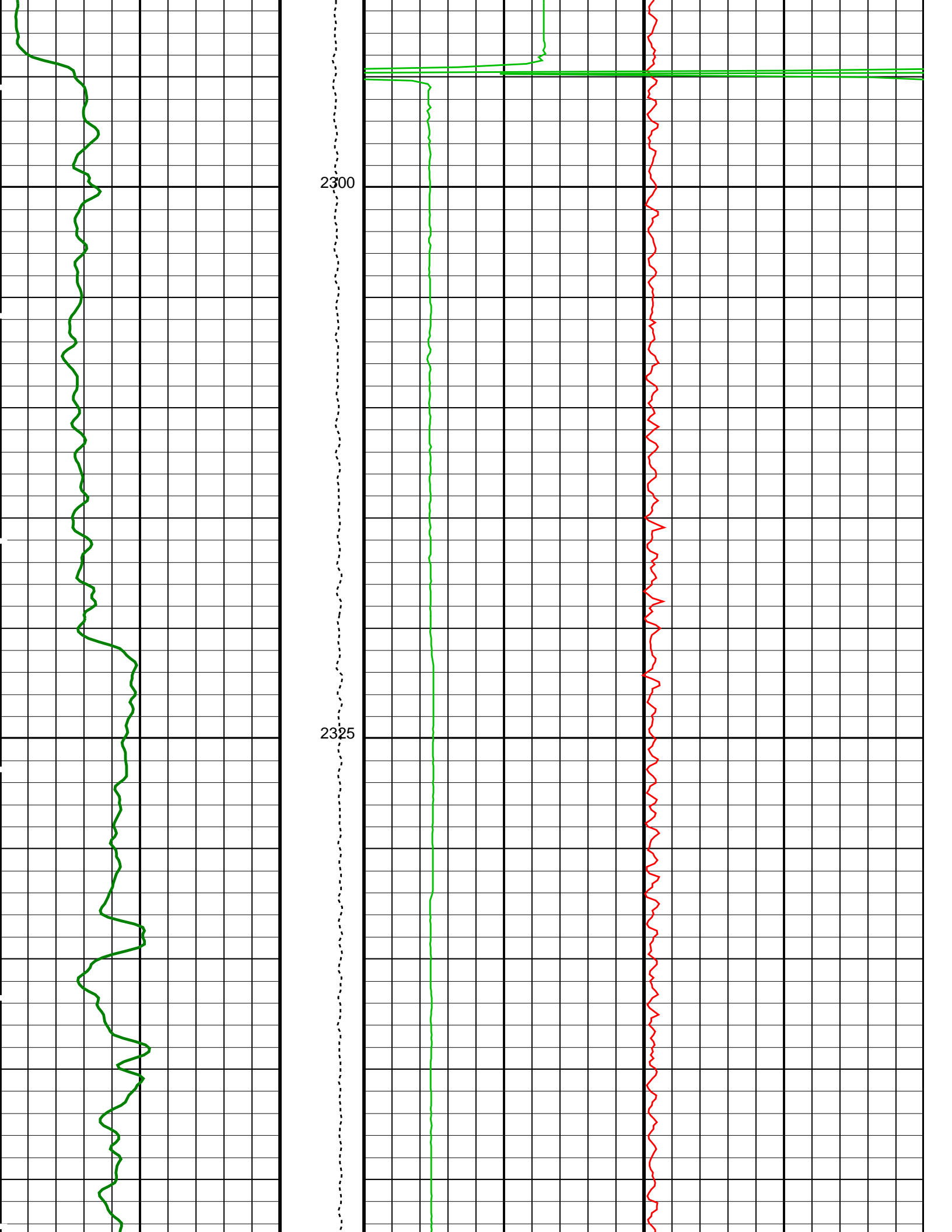
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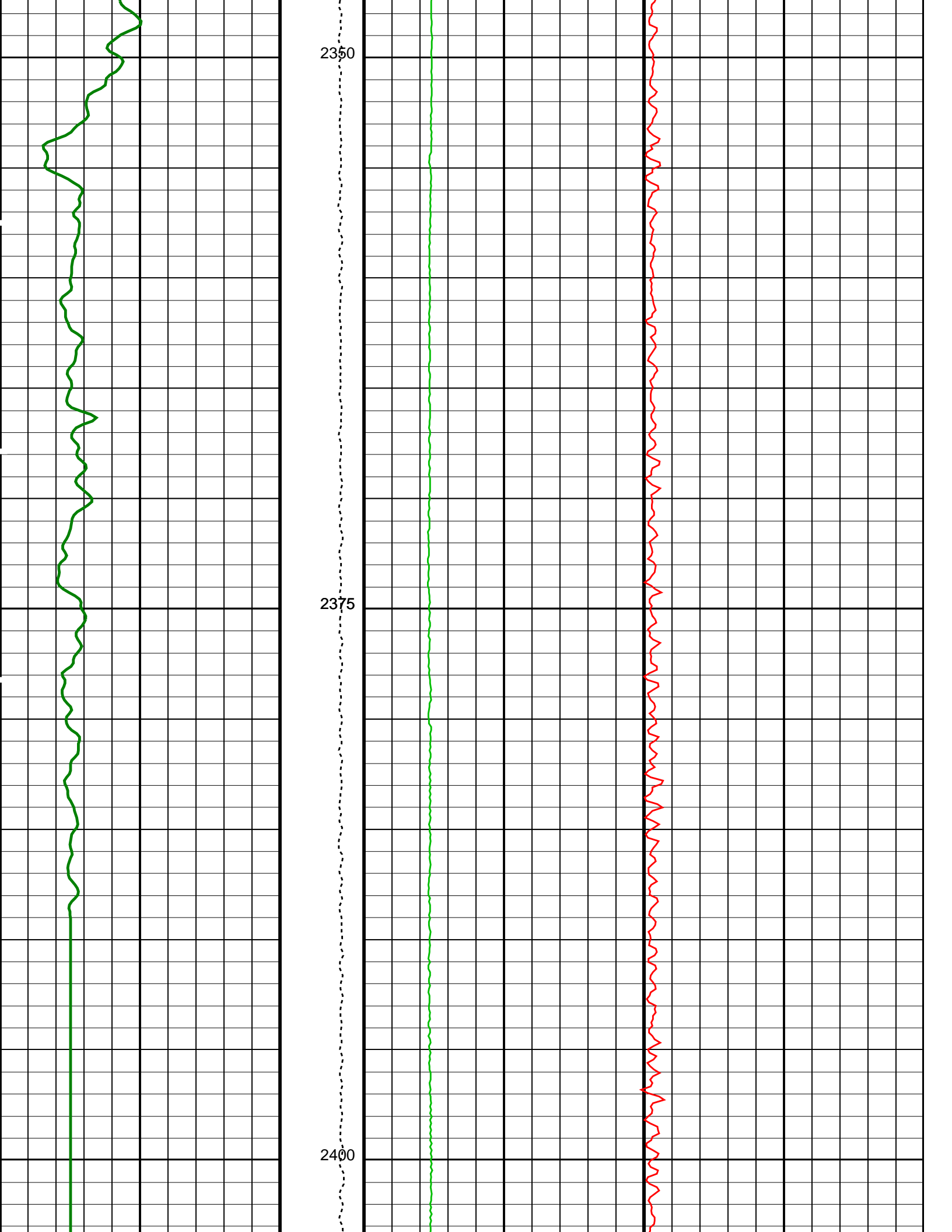
0

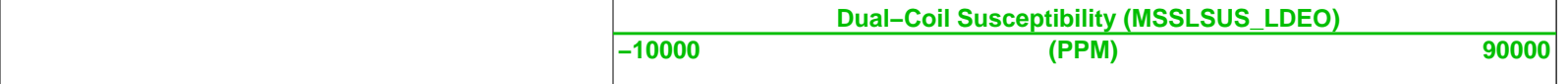
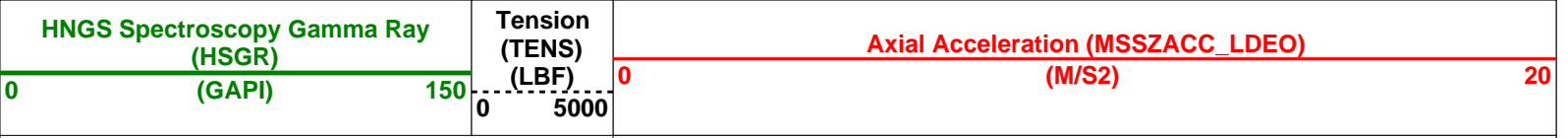
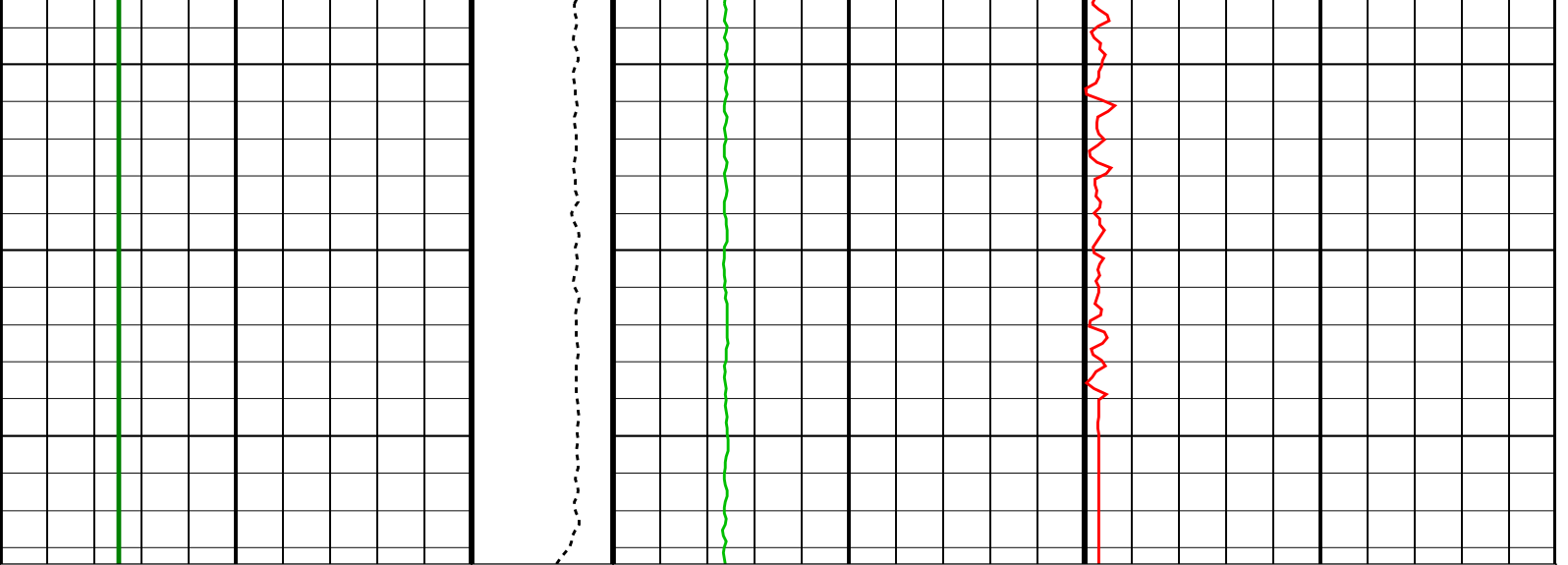
5000











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	BS
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	BS
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00835459
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
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	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.942886
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.963783
	System and Miscellaneous	
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.26 G/C3
DO	Depth Offset for Playback	0.0 M
PP	Playback Processing	NORMAL

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 11:36

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
DTC-H	19C0-187		

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_025LUP PRODUCER 05-Sep-2021 11:34 2418.4 M 2180.8 M

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_026PUP FN:18 PRODUCER 05-Sep-2021 11:35
 RTB MSS_LDEO_HRLA_LDL_026PUP FN:19 PRODUCER 05-Sep-2021 11:35



First Pass

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1570D

Output DLIS Files

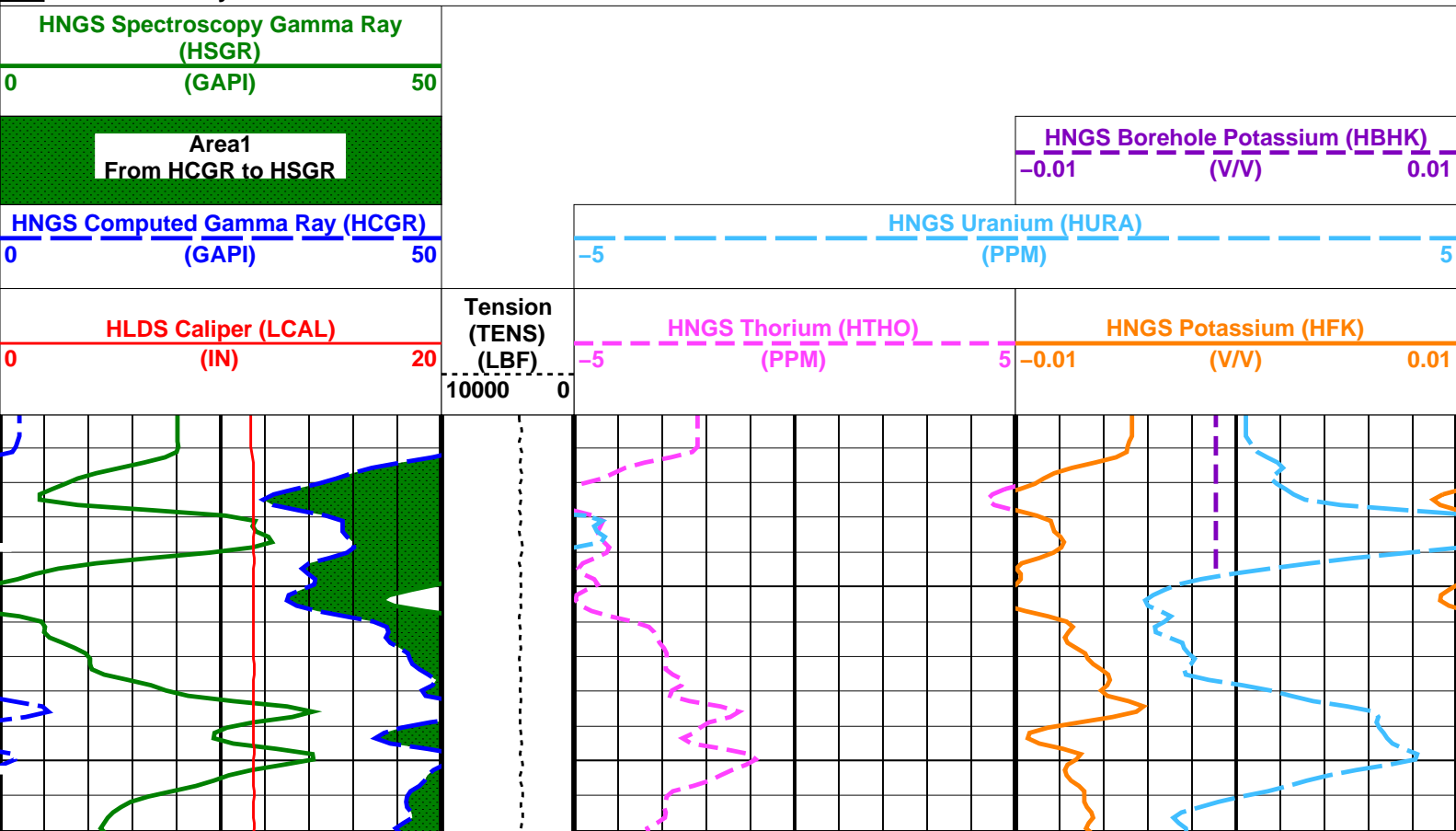
DEFAULT MSS_LDEO_HRLA_LDL_021LUP FN:12 PRODUCER 05-Sep-2021 10:00 2418.6 M 2331.7 M
 RTB MSS_LDEO_HRLA_LDL_021LUP FN:13 PRODUCER 05-Sep-2021 10:00 2418.6 M 2331.7 M

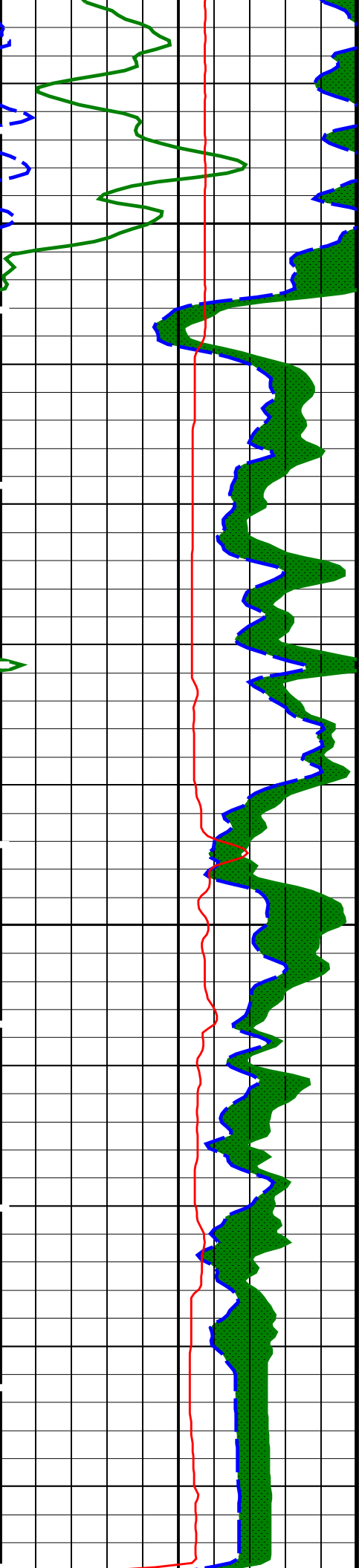
OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

PIP SUMMARY

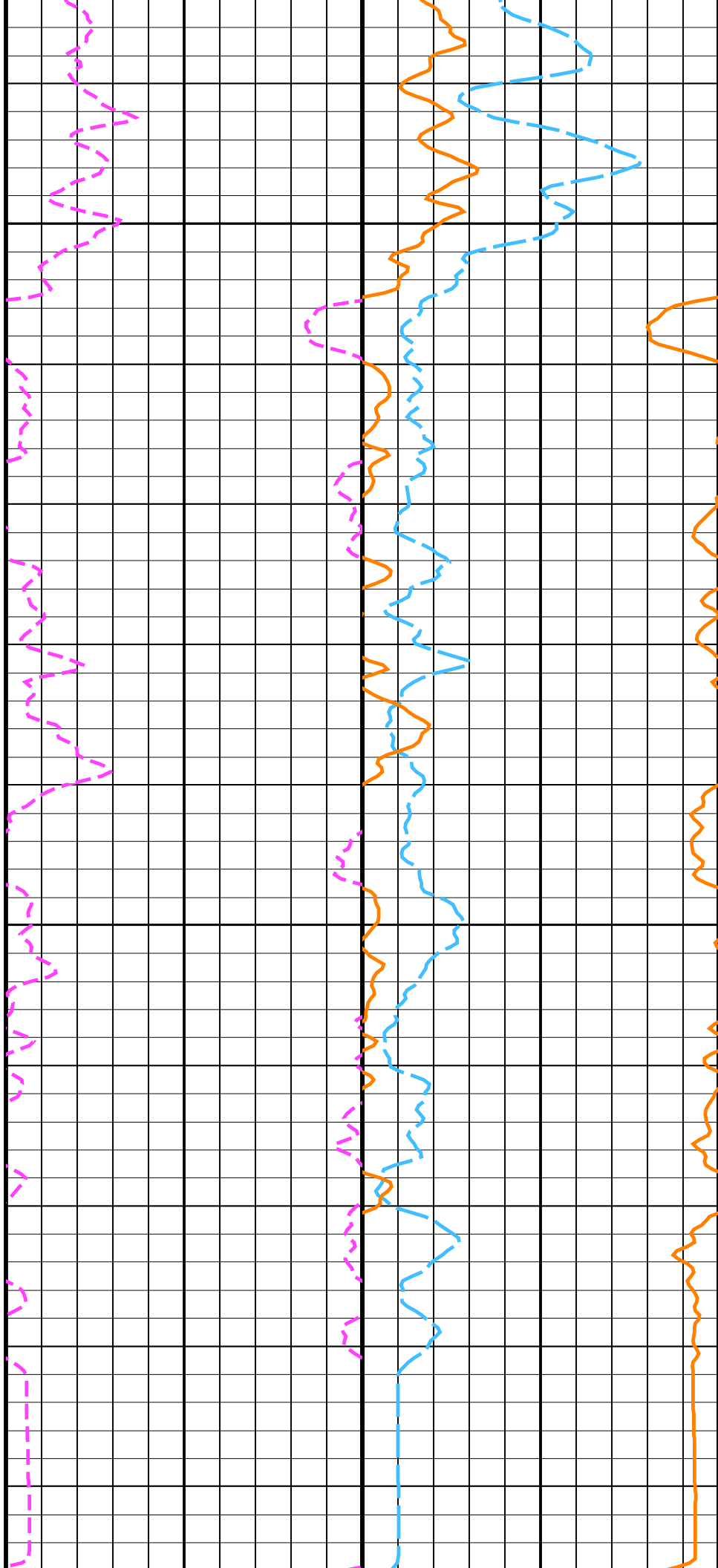
Time Mark Every 60 S

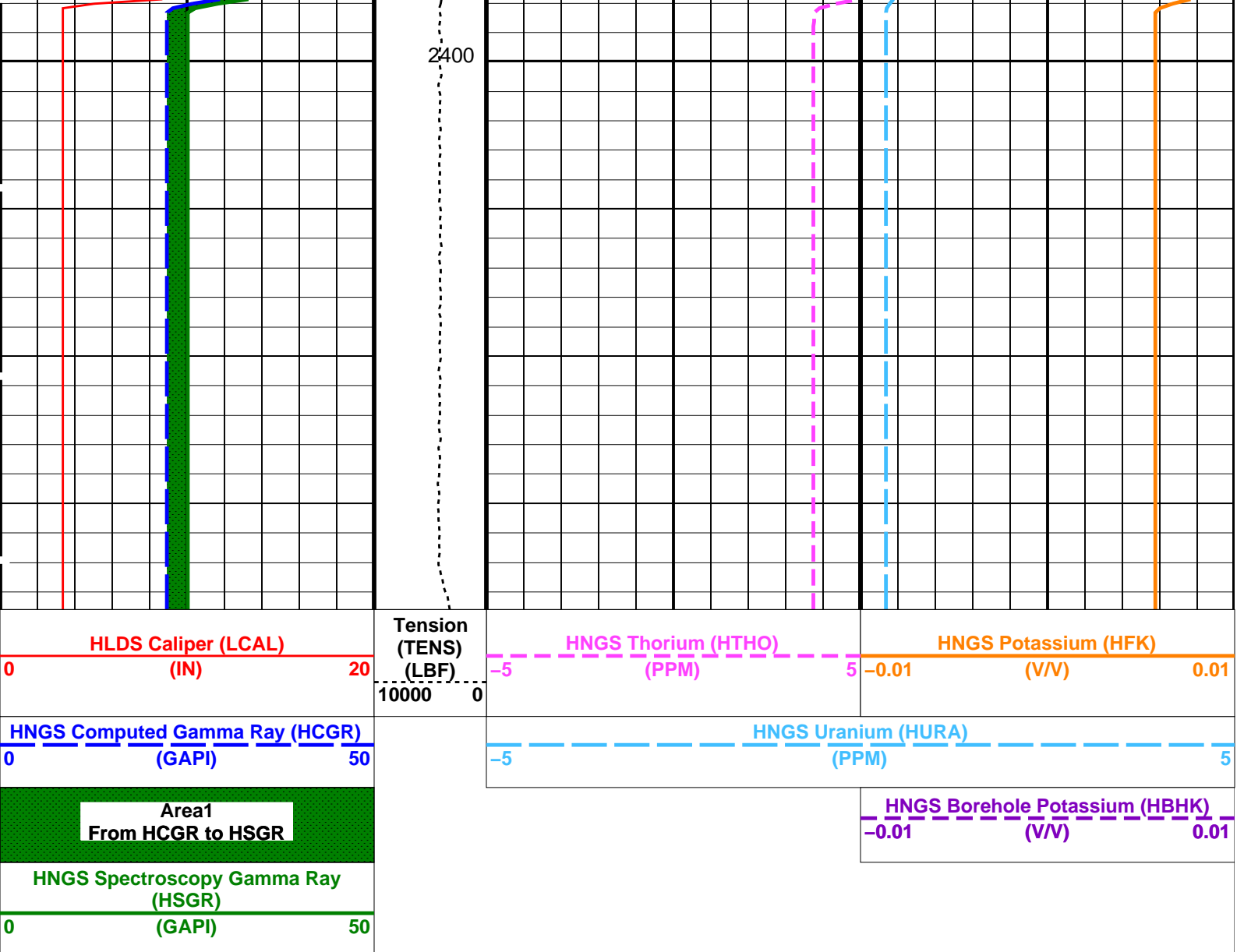




2350

2375





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	-0.00211831
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
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	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.940593
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.986688

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00

Output DLIS Files

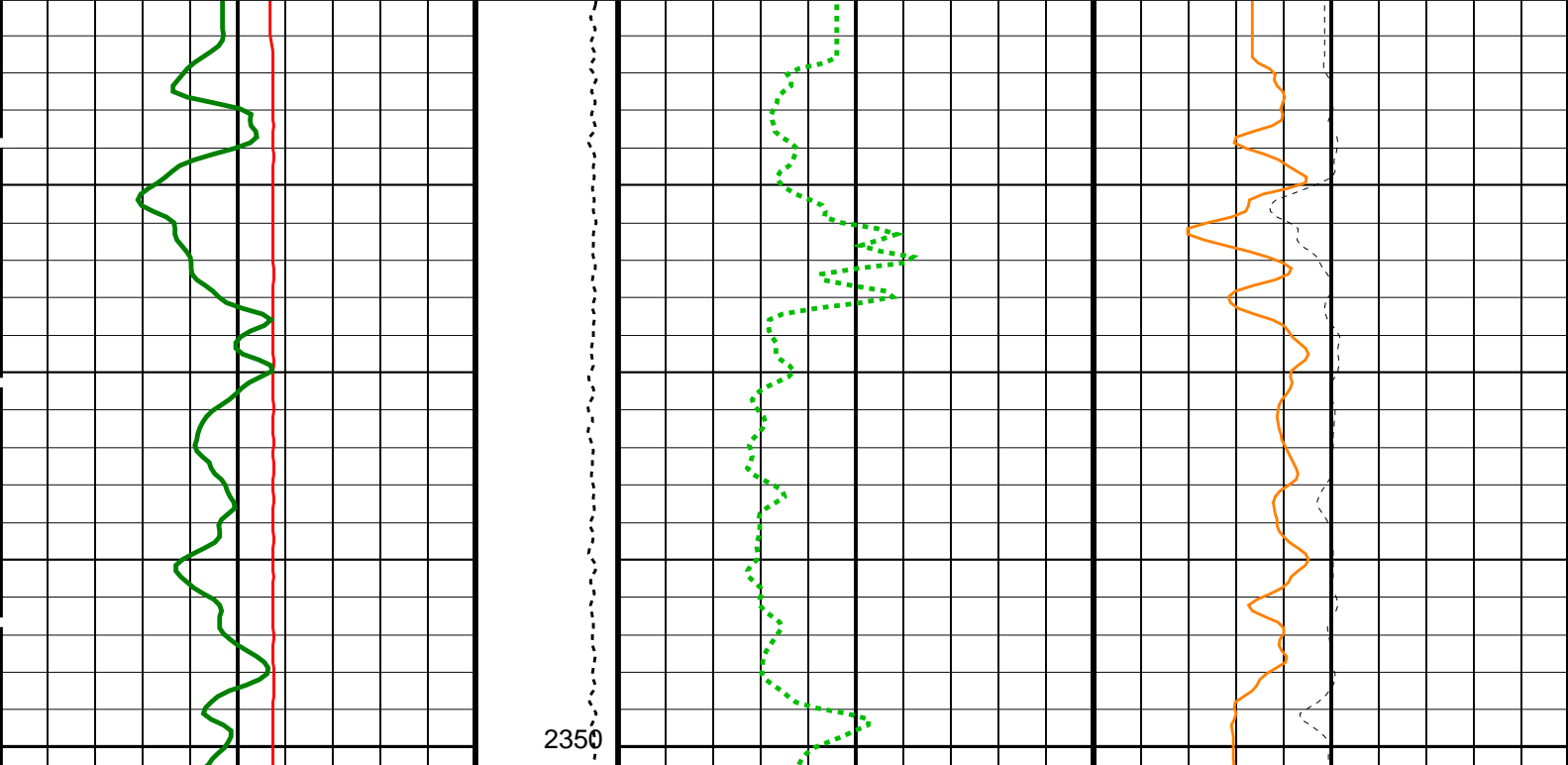
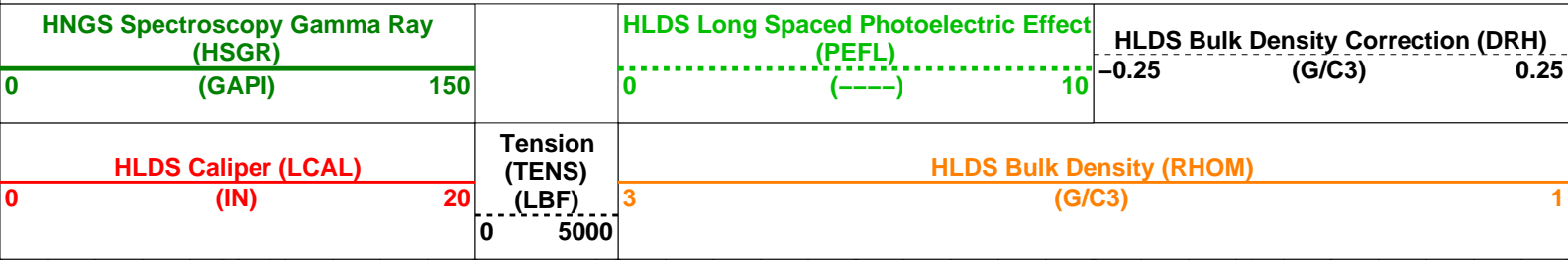
DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00	2418.6 M	2331.7 M
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00	2418.6 M	2331.7 M

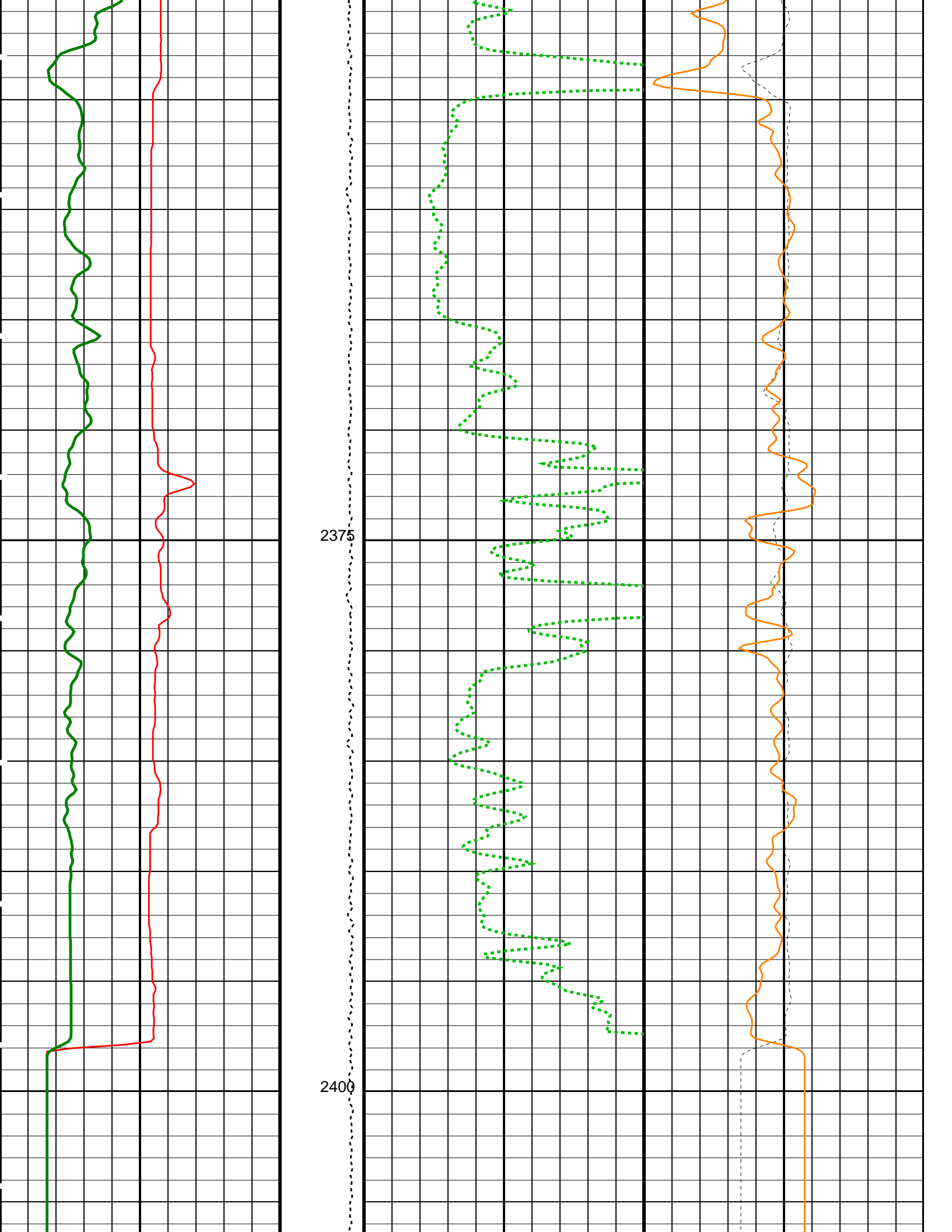
OP System Version: 19C0-187

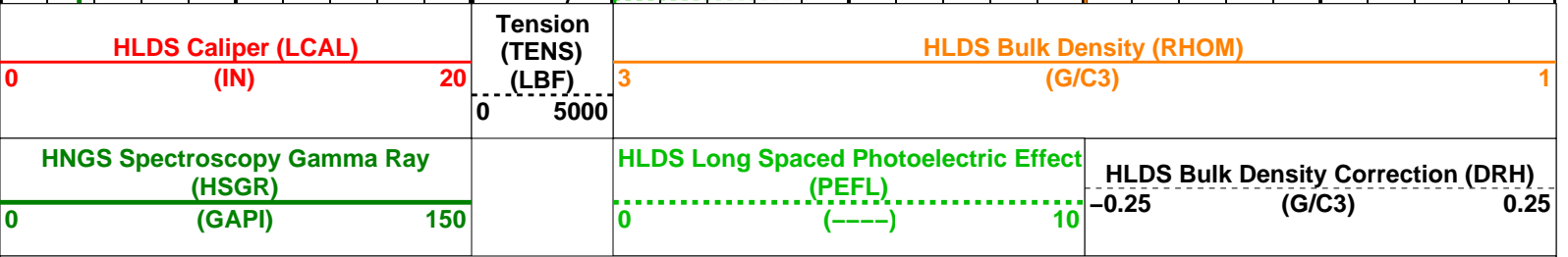
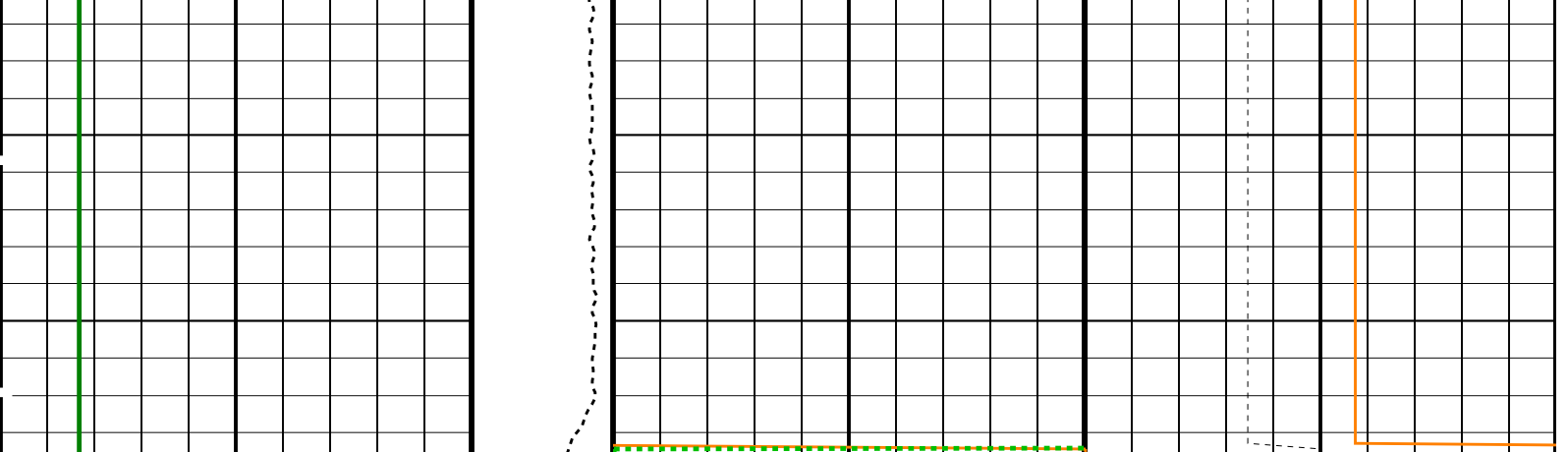
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S







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
	HLDS: Hostile Litho-Density Sonde	
DHC	Density Hole Correction	CALIPER
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	ON
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	-0.00211831
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
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	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.940593
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.986688
	System and Miscellaneous	
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.26 G/C3

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 10:00

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00

Company: International Ocean Discovery Program	Well: Expedition 396, Site U1570D
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Output DLIS Files

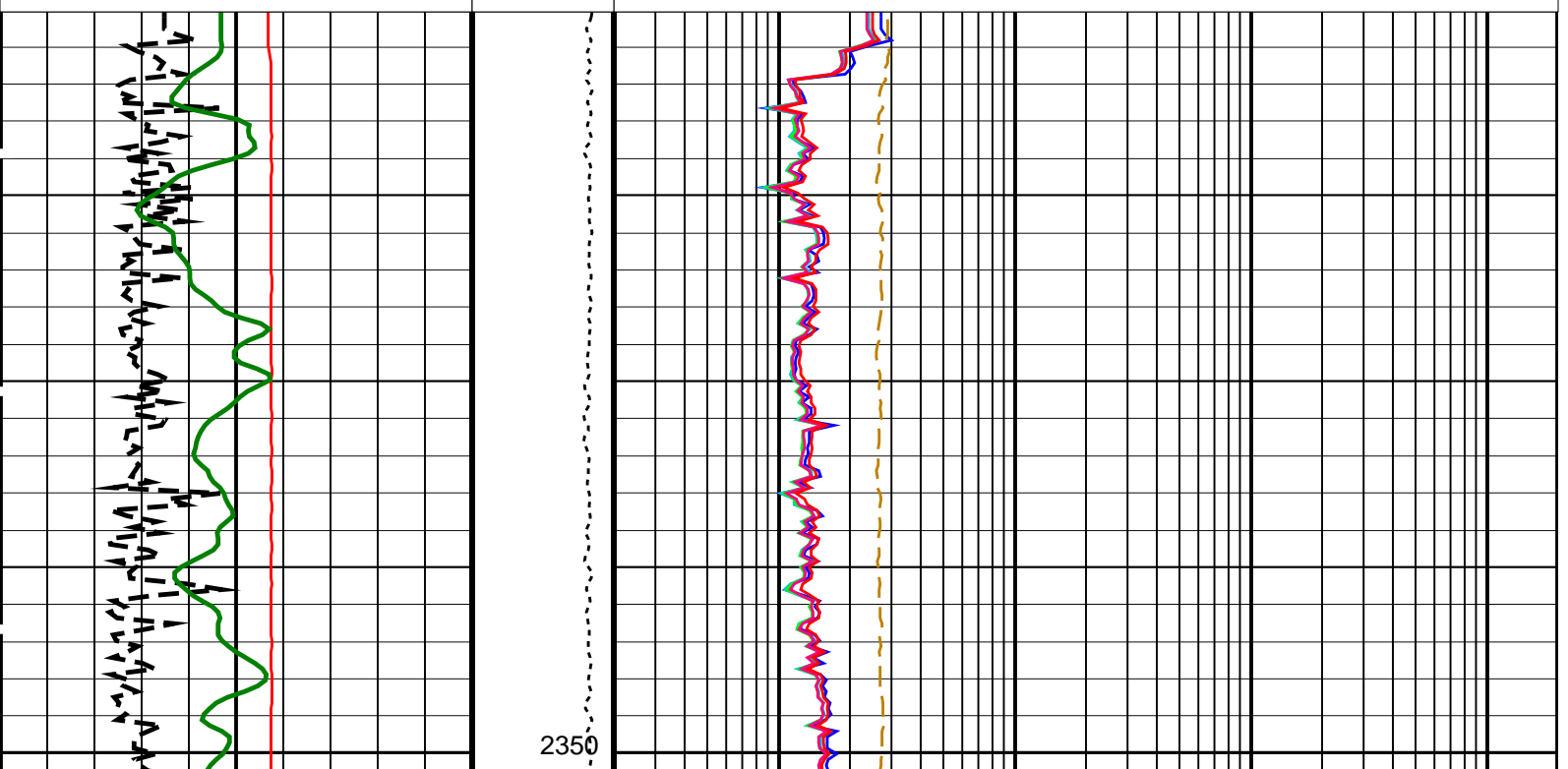
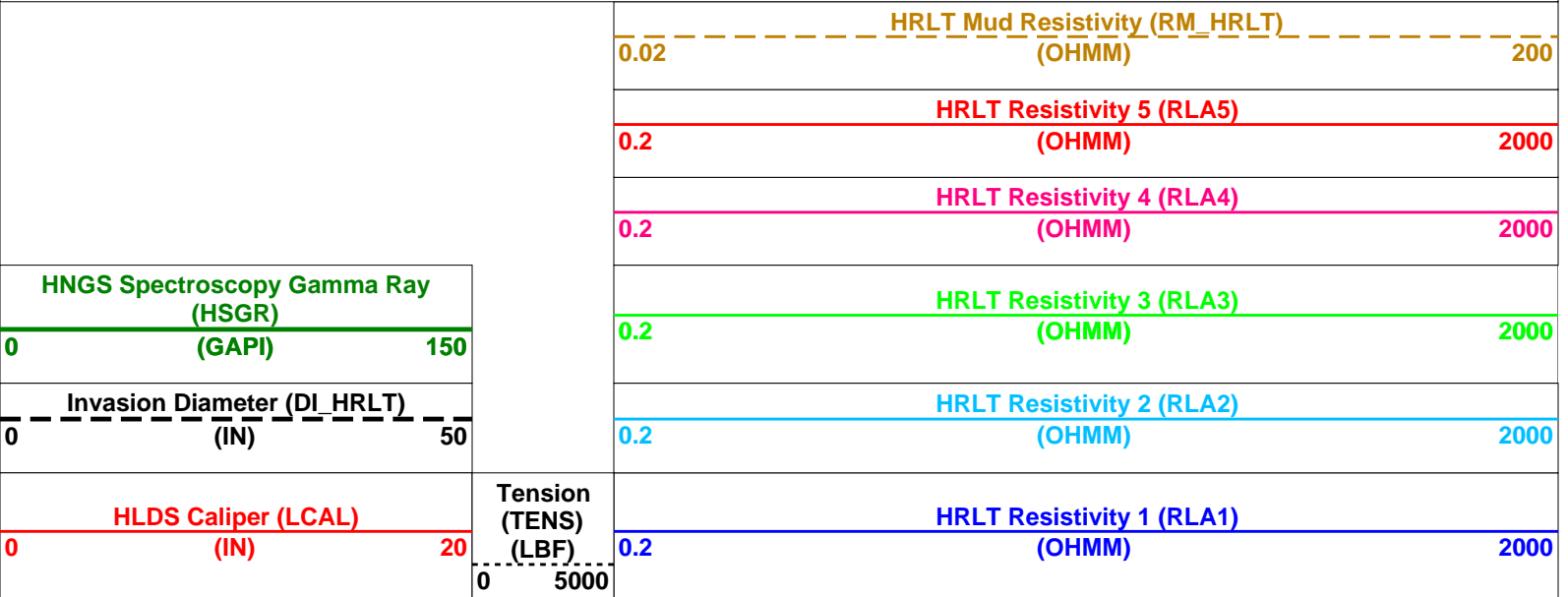
DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00	2418.6 M	2331.7 M
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00	2418.6 M	2331.7 M

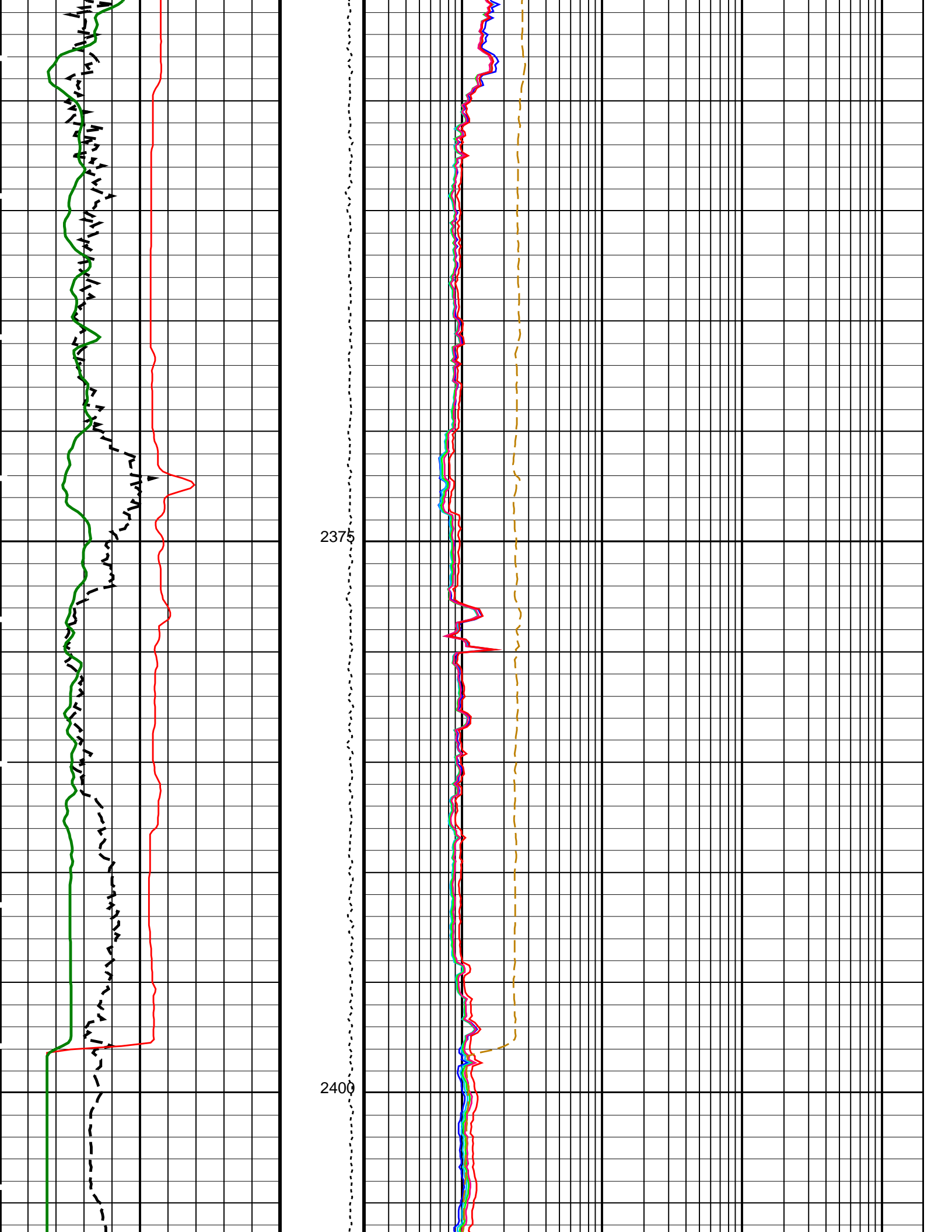
OP System Version: 19C0-187

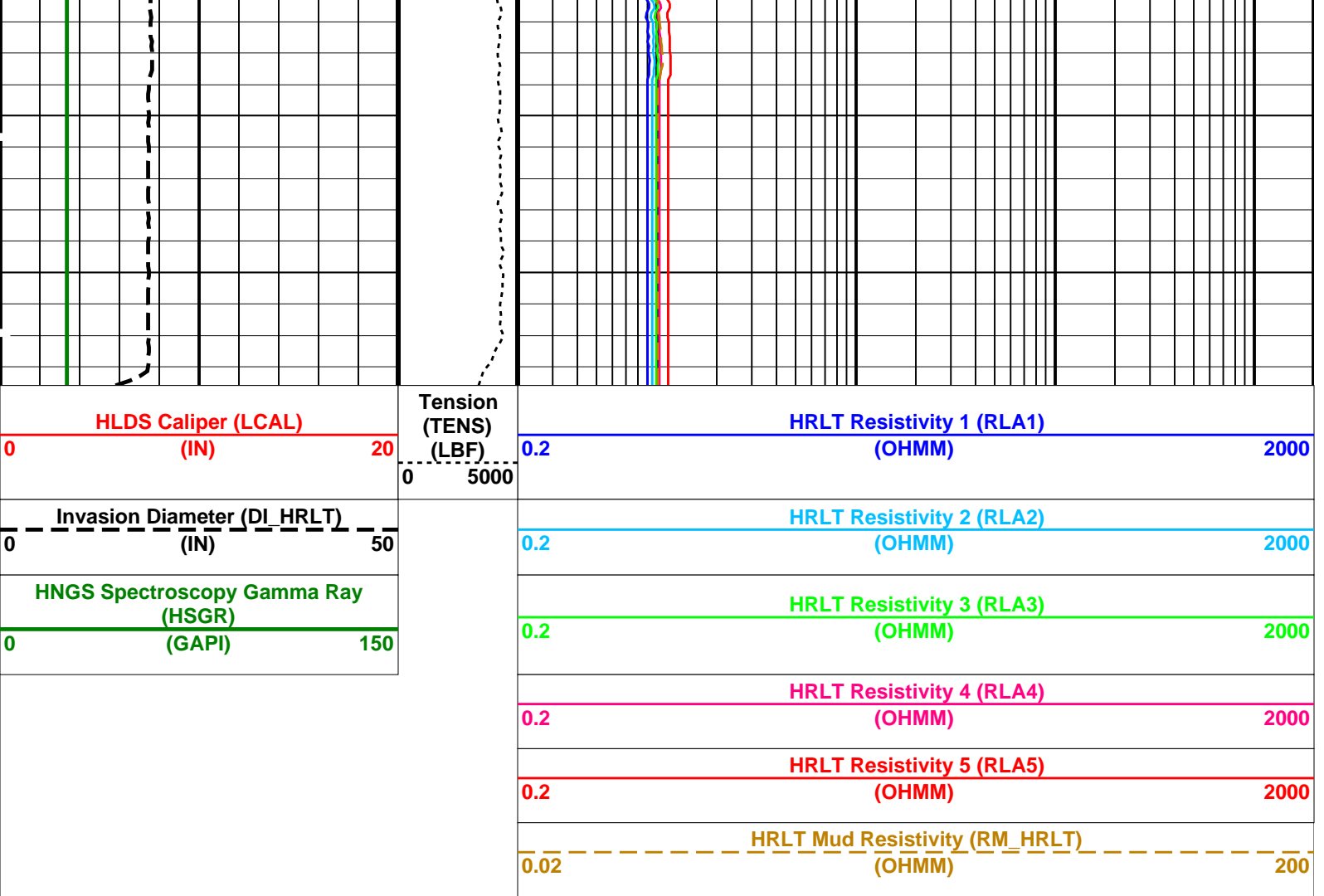
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S







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)	7 DEGC
GCSE	Generalized Caliper Selection	LCAL
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
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
PROCSP0	Sonde Position	Eccentered
SHT	Surface Hole Temperature	20 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
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	7 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	NONE
GCSE	Generalized Caliper Selection	LCAL
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	-0.00211831
HALE	HNGS Alpha Filter Length	60 IN

HALF	HNGS Alpha Filter Length	00	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.940593	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.986688	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
TD	Total Depth	2292	M

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 10:00

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00

Company: International Ocean Discovery Program Well: Expedition 396, Site U1570D

Output DLIS Files

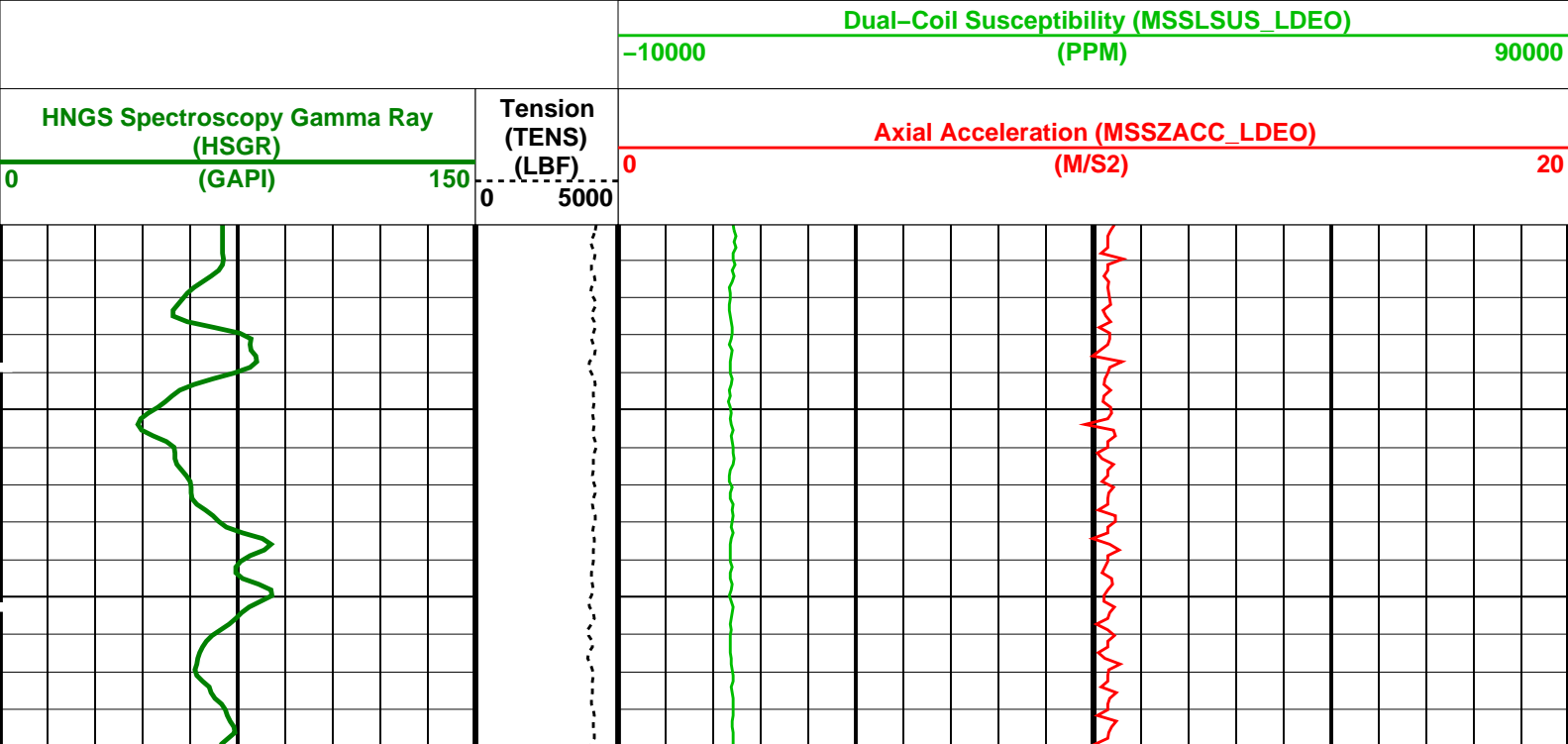
DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00	2418.6 M	2331.7 M
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00	2418.6 M	2331.7 M

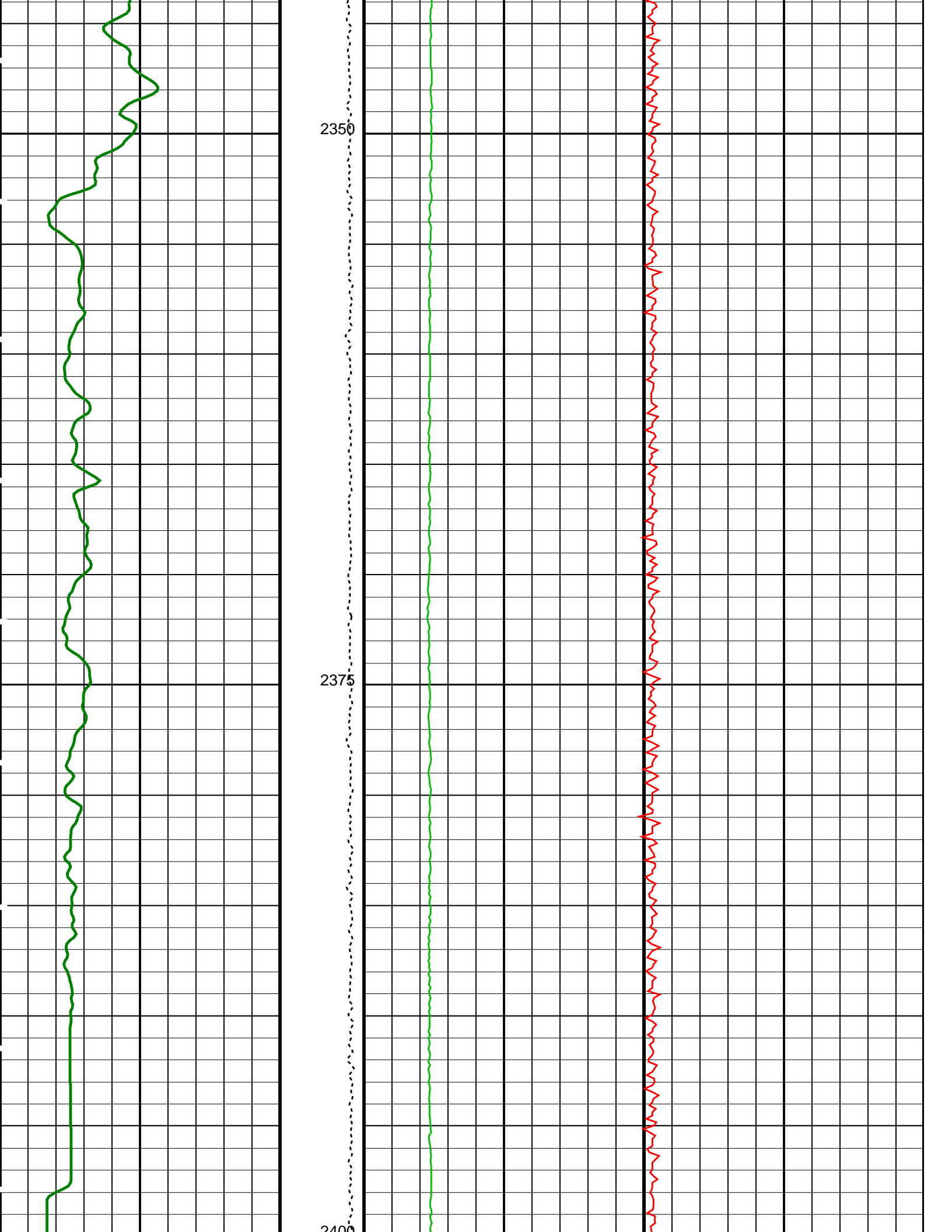
OP System Version: 19C0-187

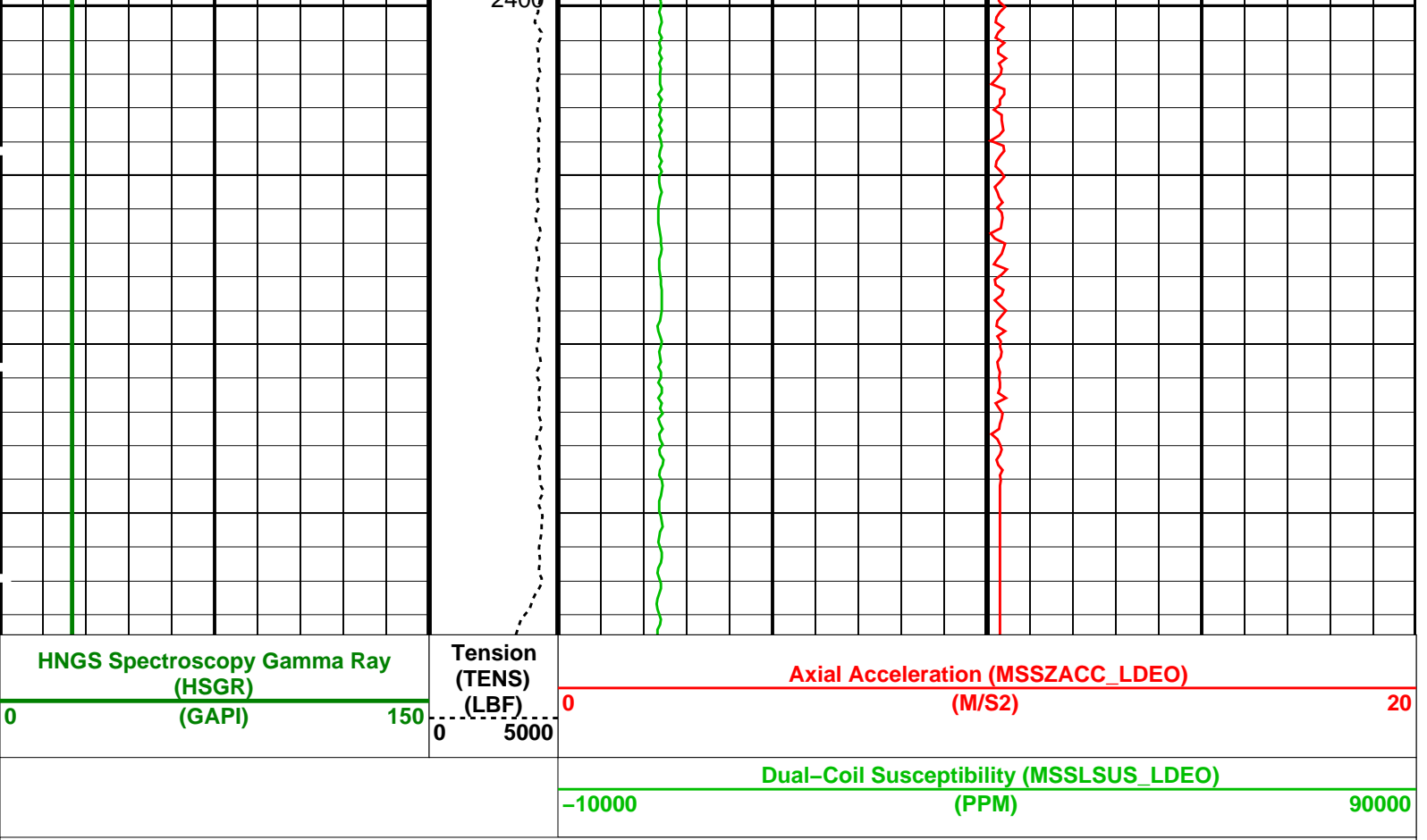
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S







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	-0.00211831
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
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	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.940593
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.986688
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.26 G/C3

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 10:00

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
DTC-H 19C0-187

HNGS-BA

19C0-187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021LUP	FN:12	PRODUCER	05-Sep-2021 10:00
RTB	MSS_LDEO_HRLA_LDL_021LUP	FN:13	PRODUCER	05-Sep-2021 10:00



Second Pass

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1570D

Output DLIS Files

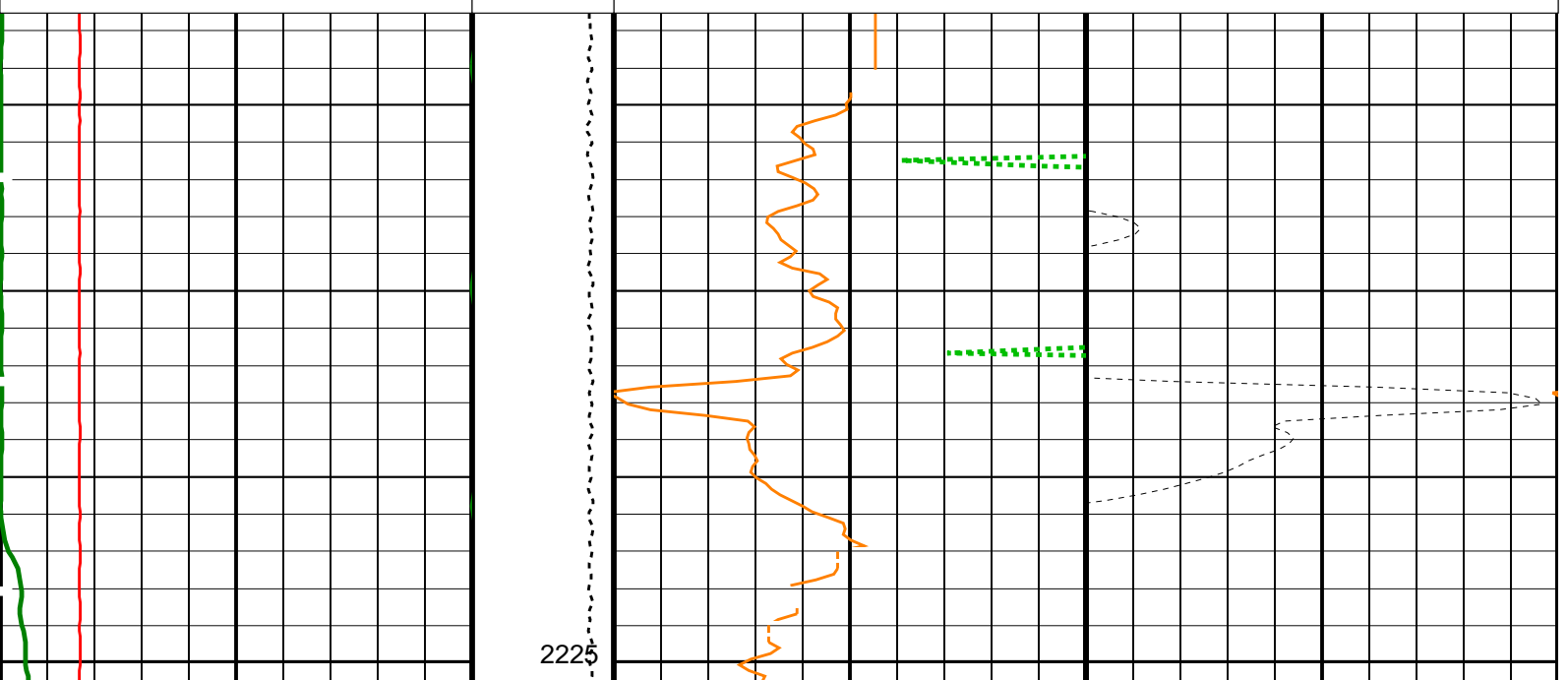
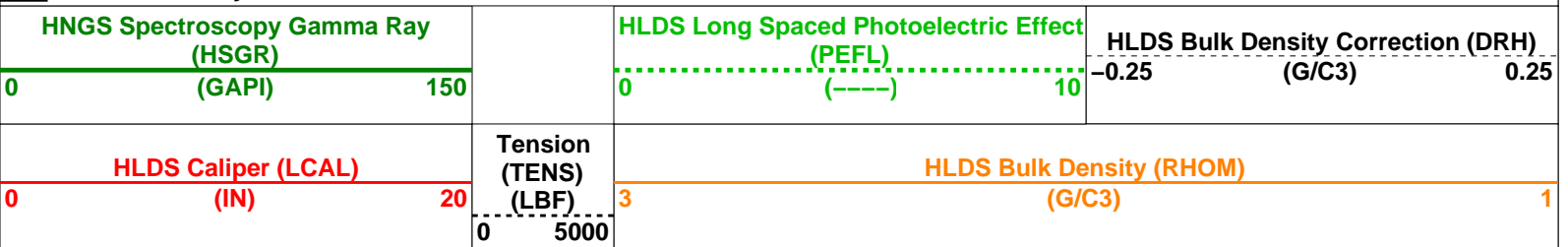
DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M

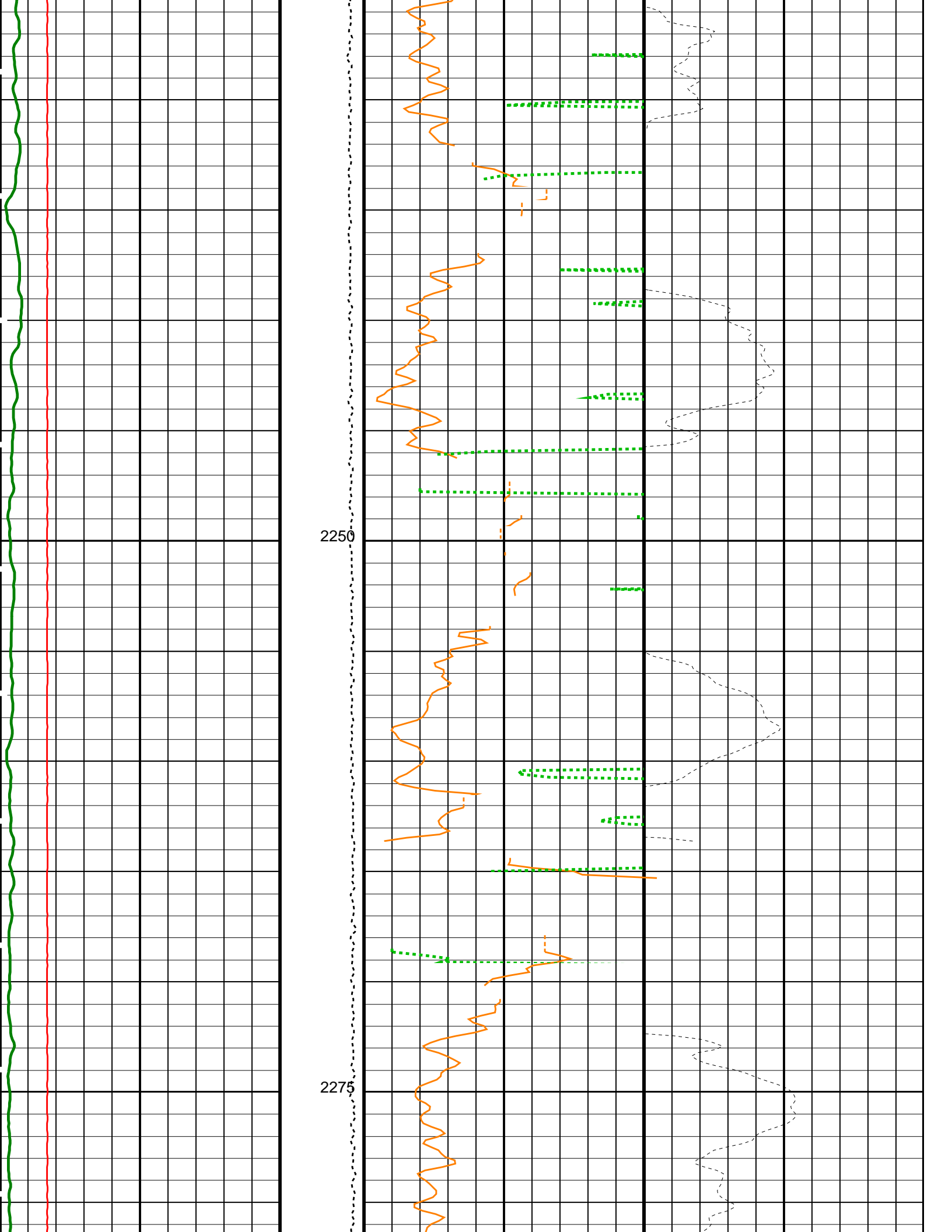
OP System Version: 19C0-187

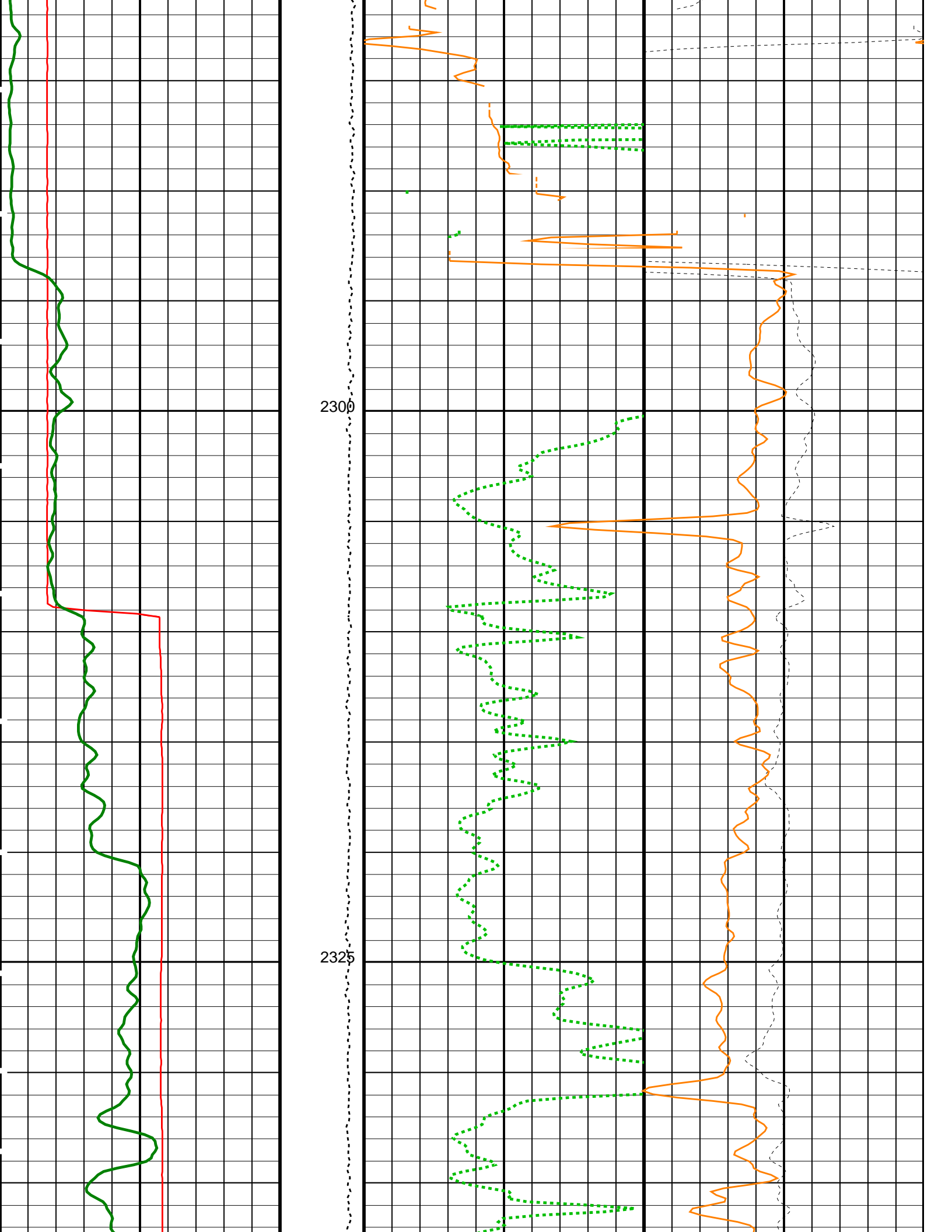
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

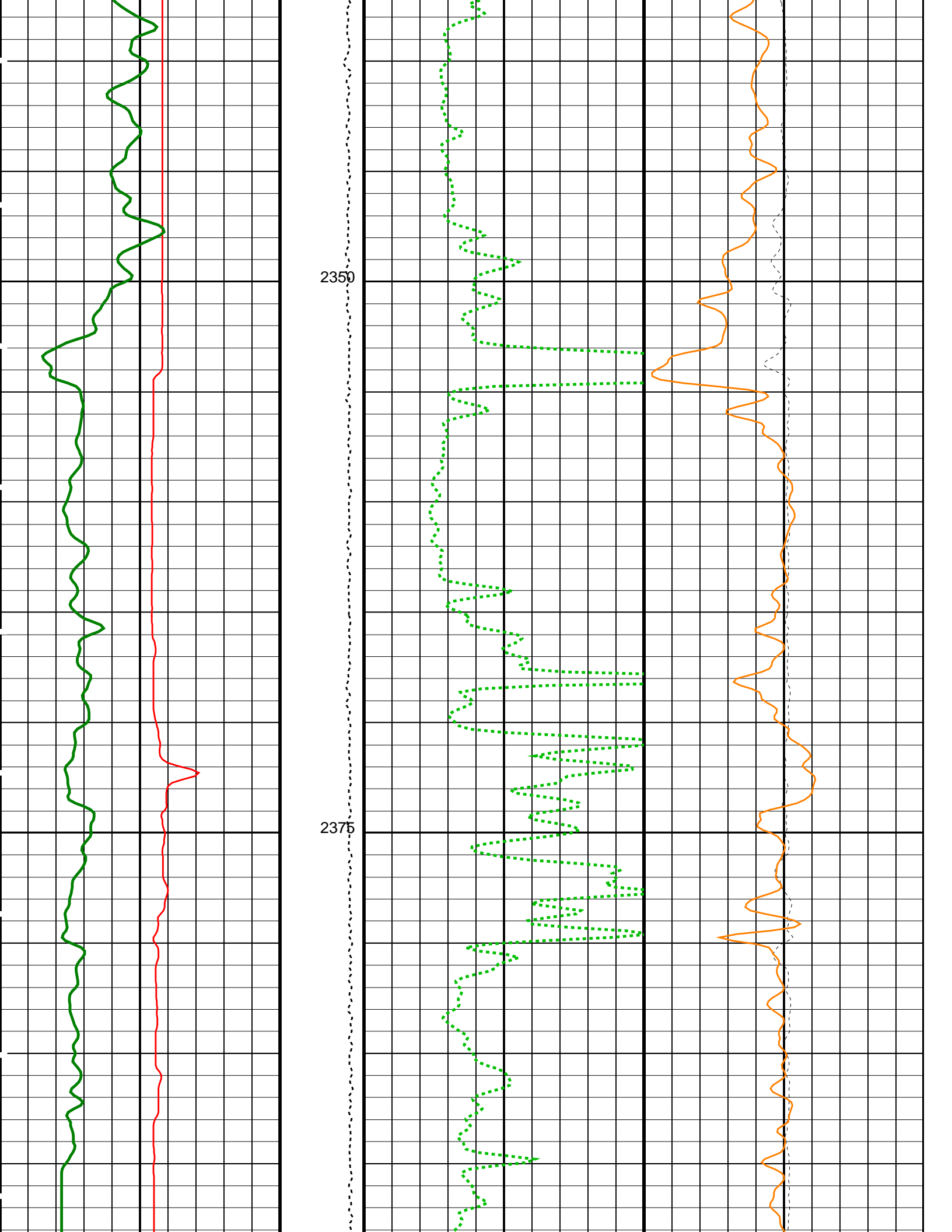
PIP SUMMARY

Time Mark Every 60 S









IPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973083
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.989447
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.26 G/C3

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 10:23

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23

Company: International Ocean Discovery Program Well: Expedition 396, Site U1570D

Output DLIS Files

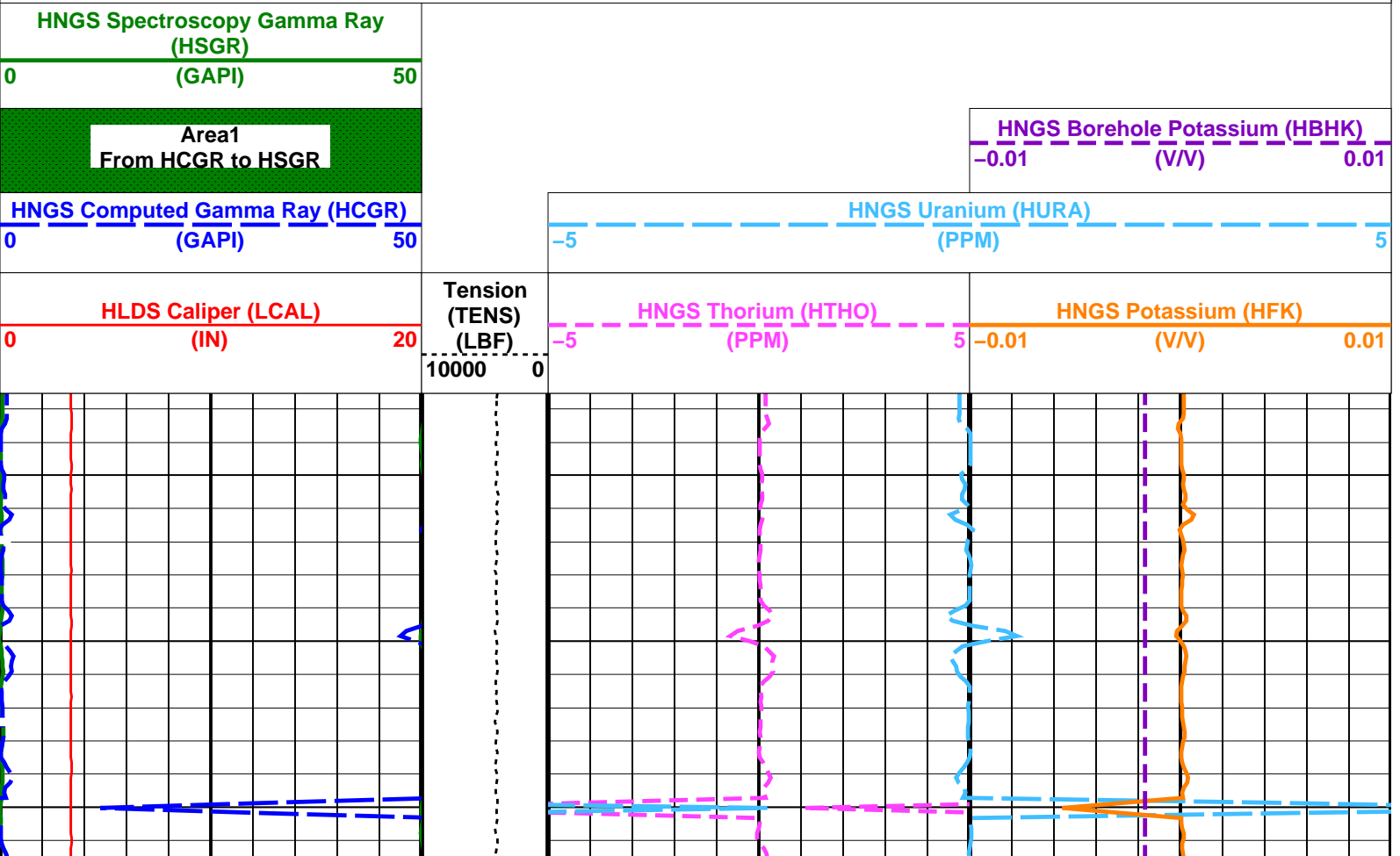
DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M

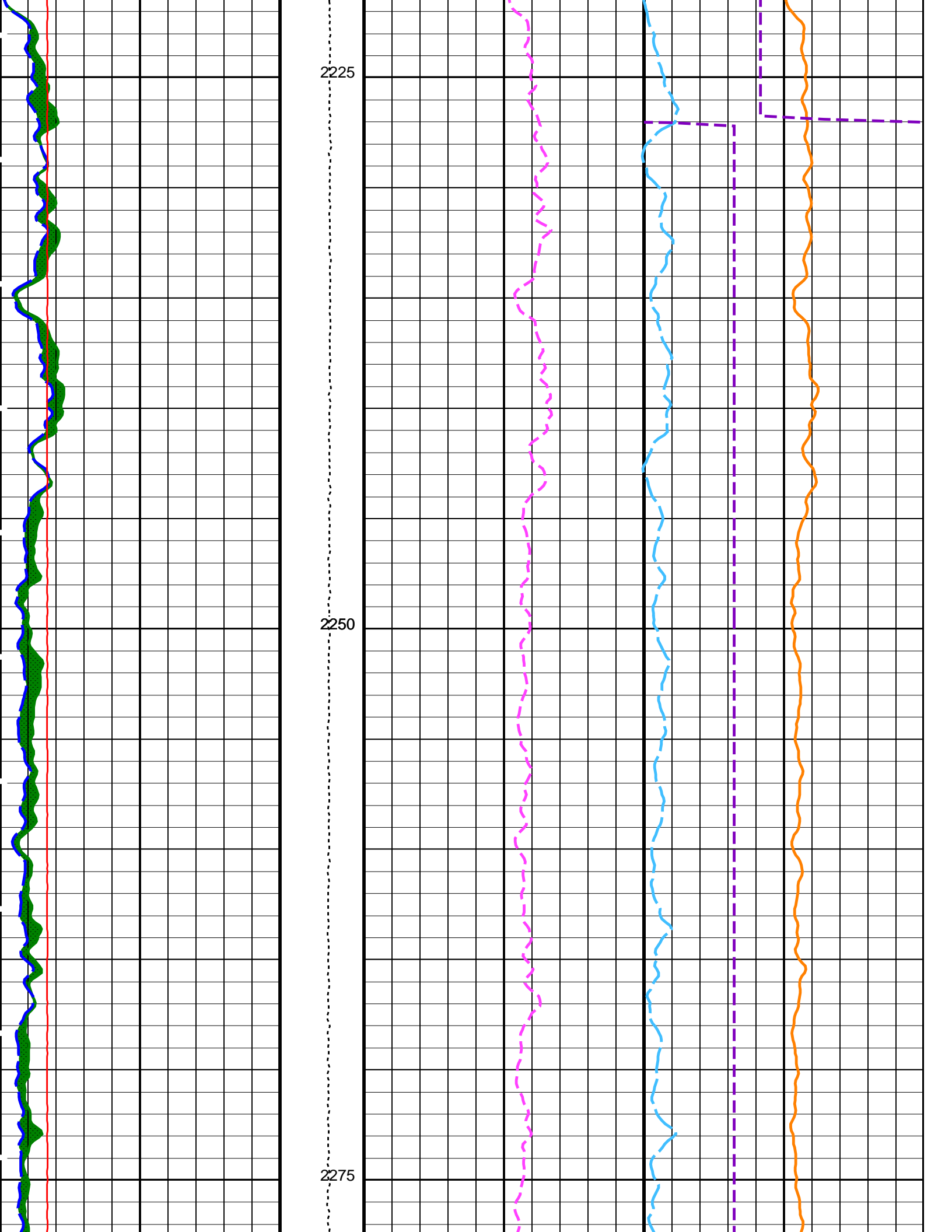
OP System Version: 19C0-187

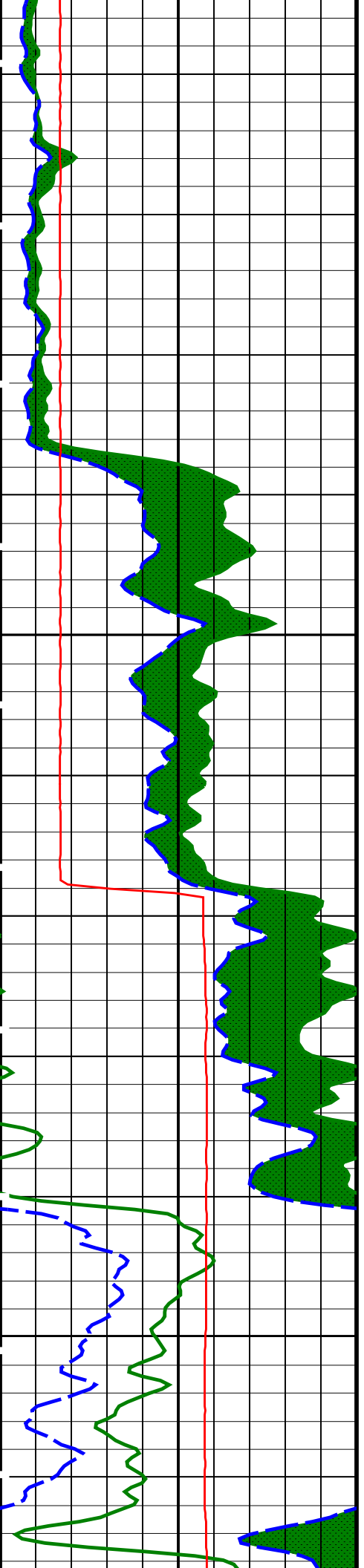
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

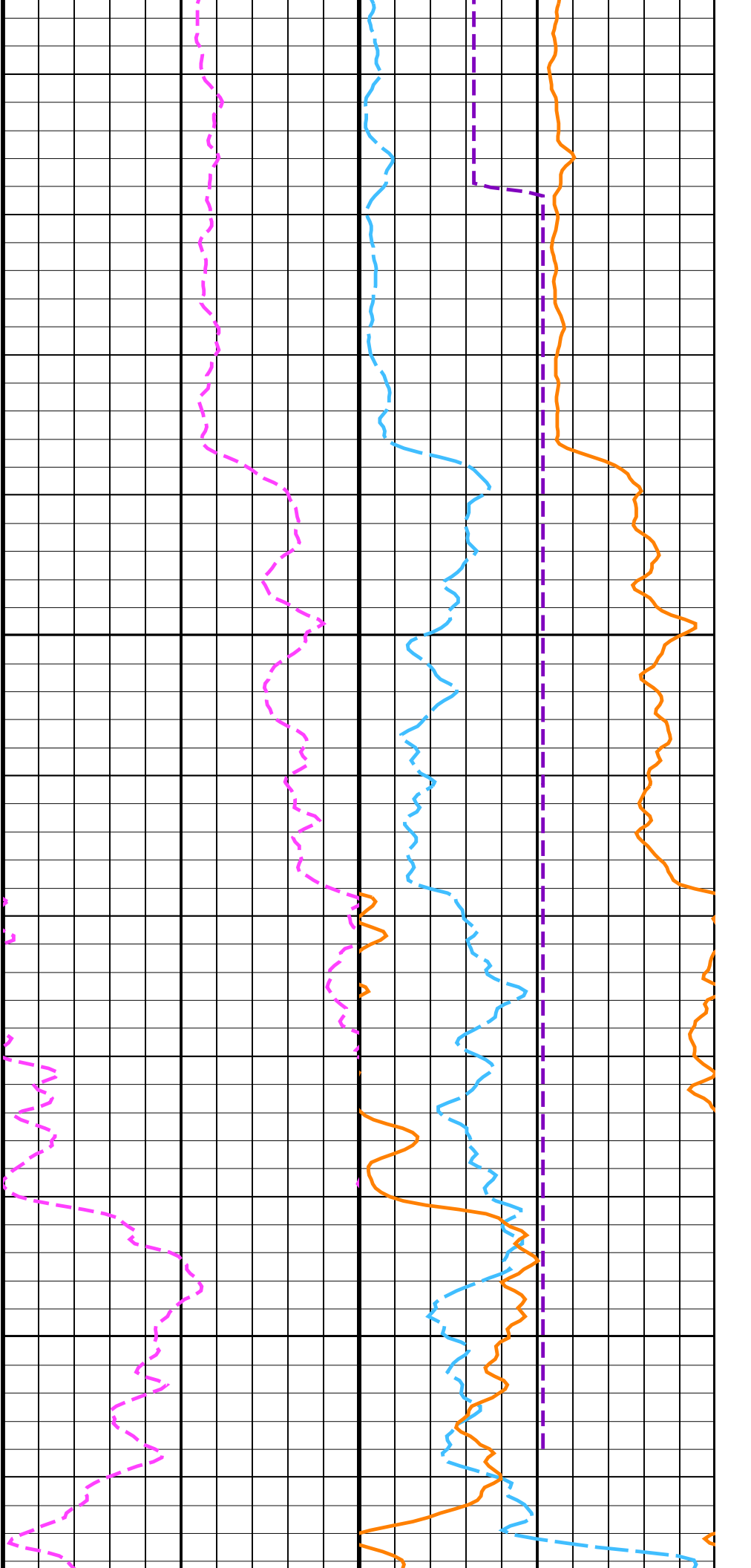


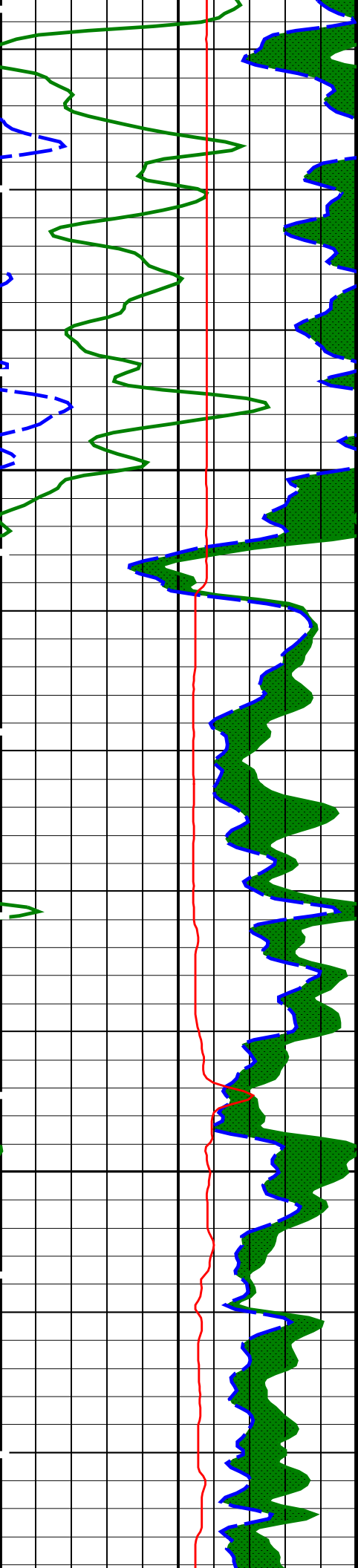




2300

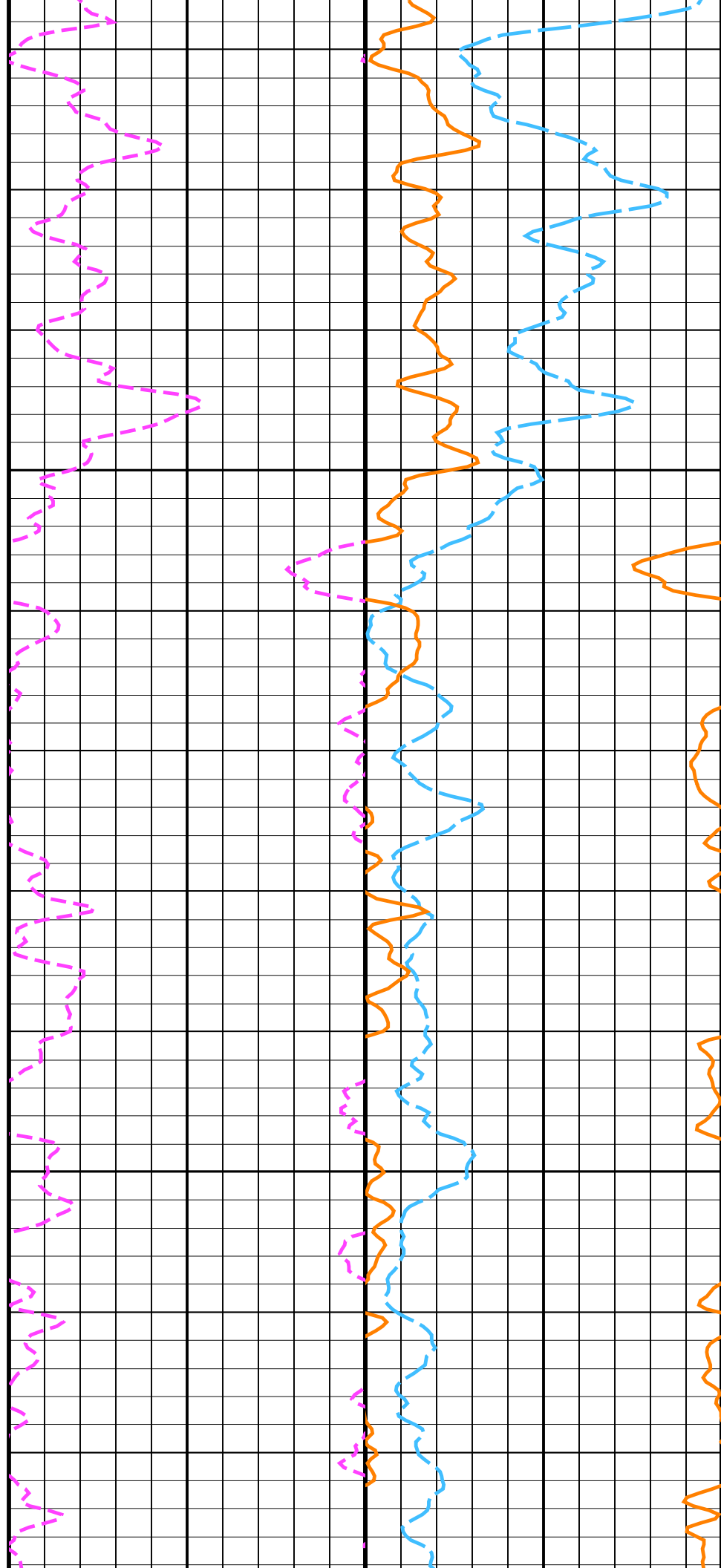
2325

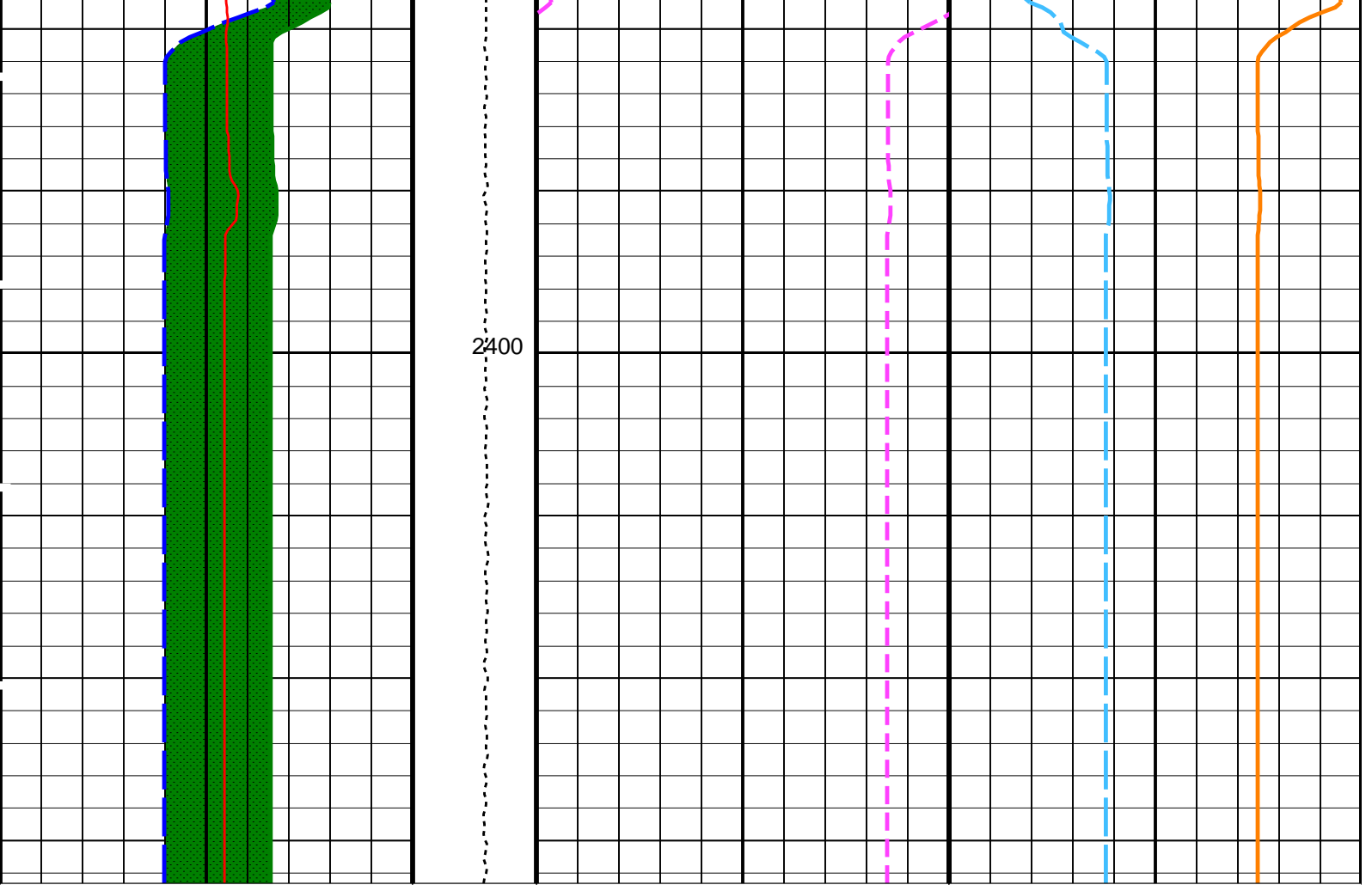




2350

2375





HLDS Caliper (LCAL) (IN)	0	20	Tension (TENS) (LBF)	10000	0	HNGS Thorium (HTHO) (PPM)	-5	5	HNGS Potassium (HFK) (V/V)	-0.01	0.01
HNGS Computed Gamma Ray (HCGR) (GAPI)	0	50			HNGS Uranium (HURA) (PPM)		-5	5			
Area1 From HCGR to HSGR									HNGS Borehole Potassium (HBHK) (V/V)		
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	50									

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	-0.000947187

HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
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	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973083	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.989447	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 10:23

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23

Company: International Ocean Discovery Program Well: Expedition 396, Site U1570D

Output DLIS Files

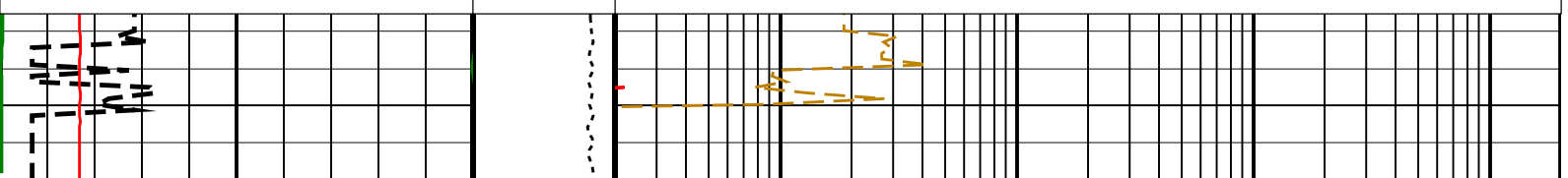
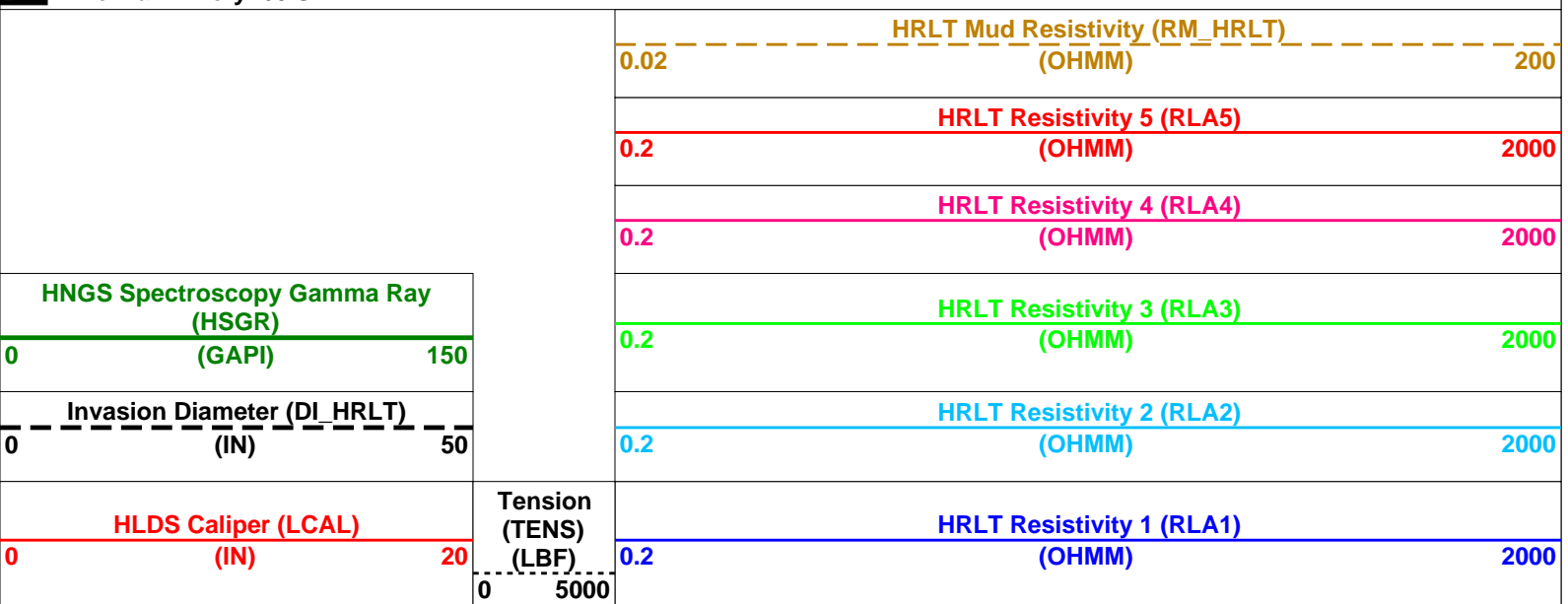
DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M

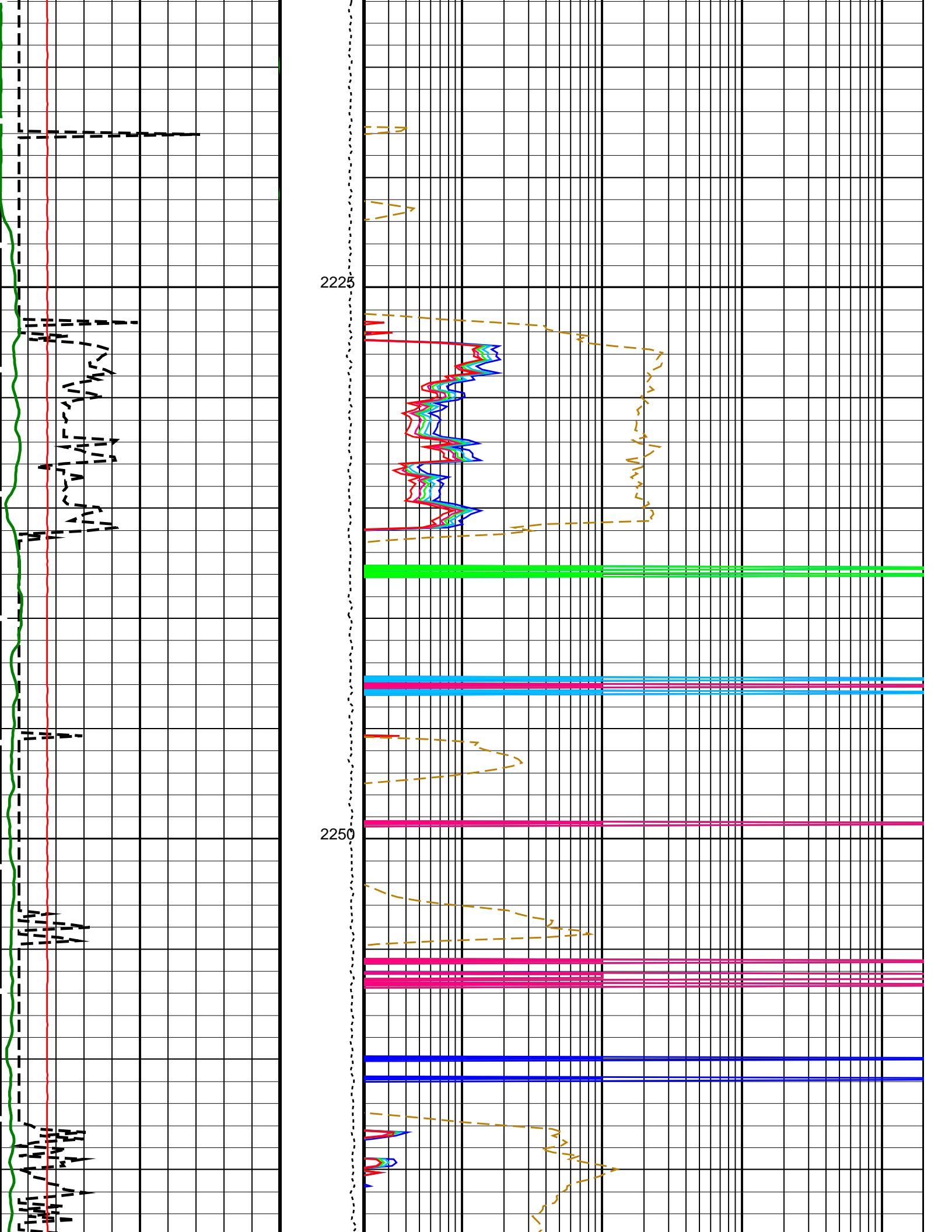
OP System Version: 19C0-187

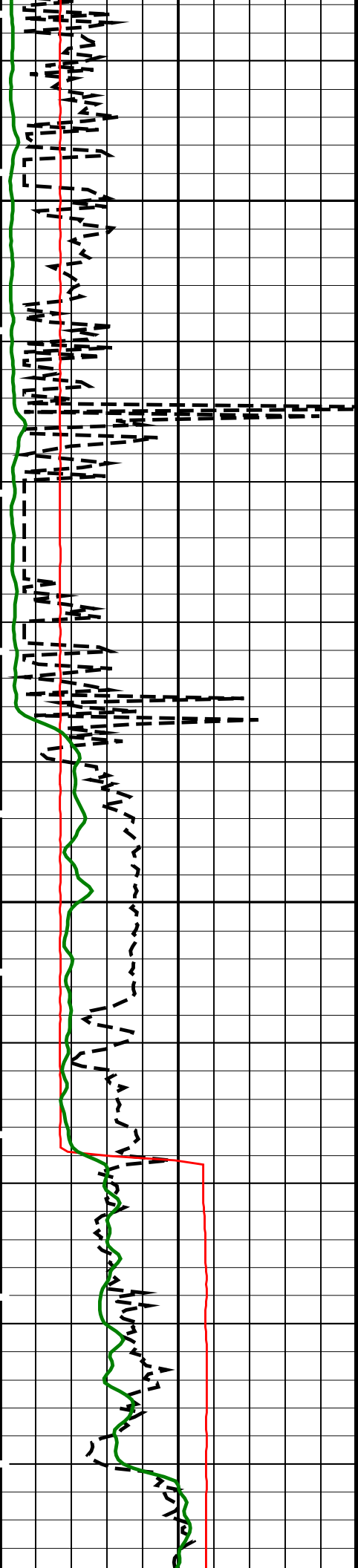
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

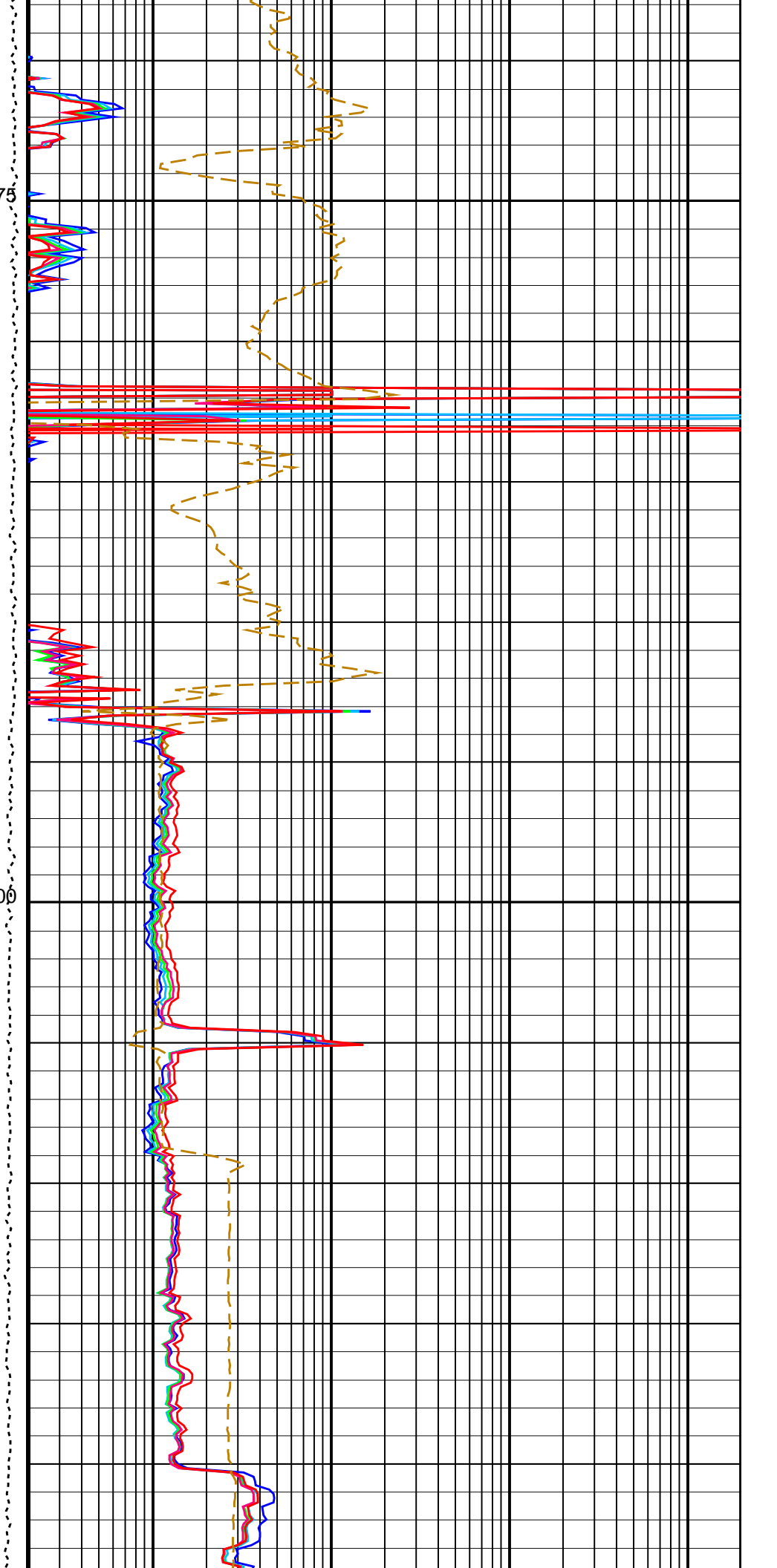


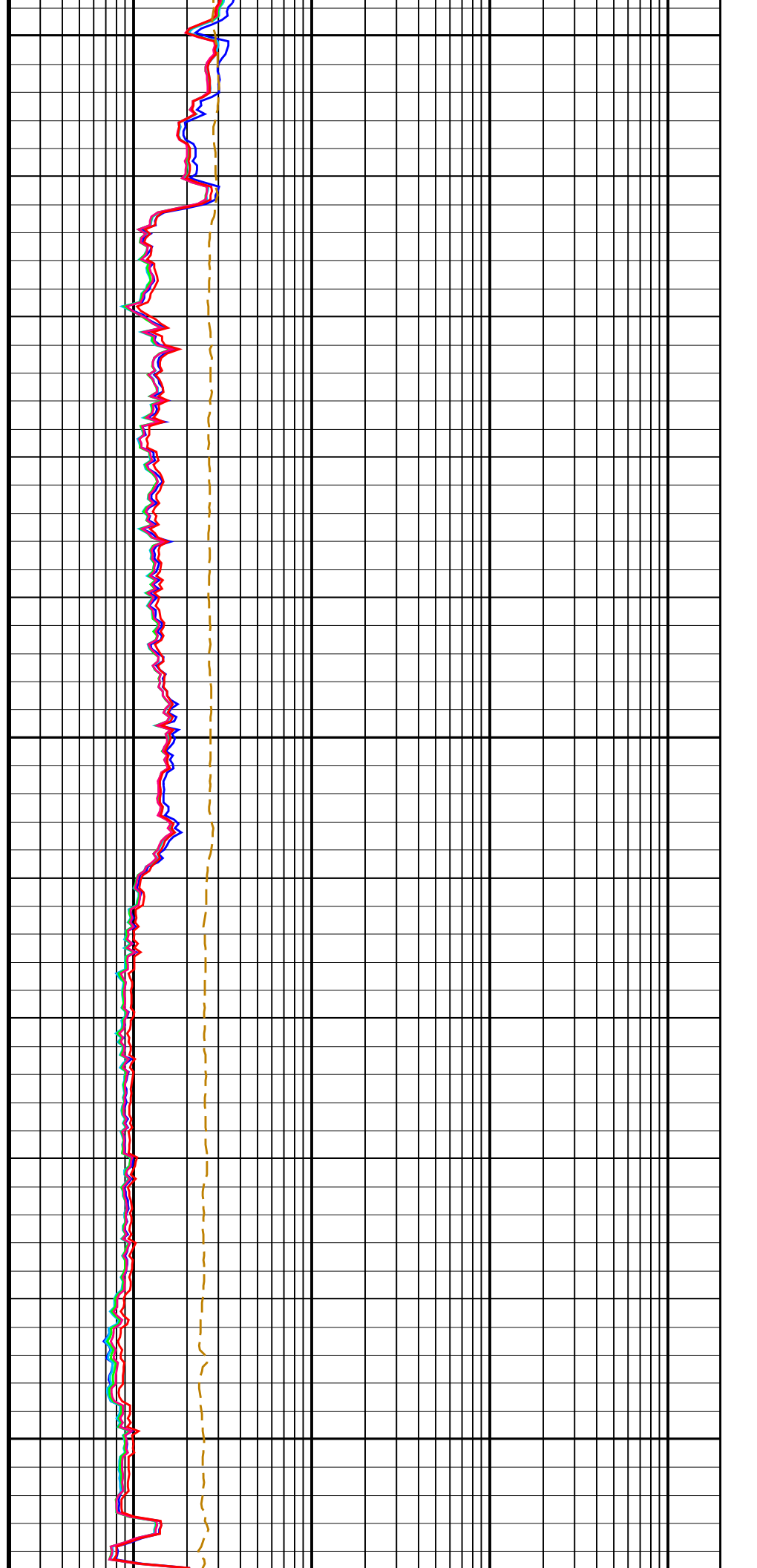
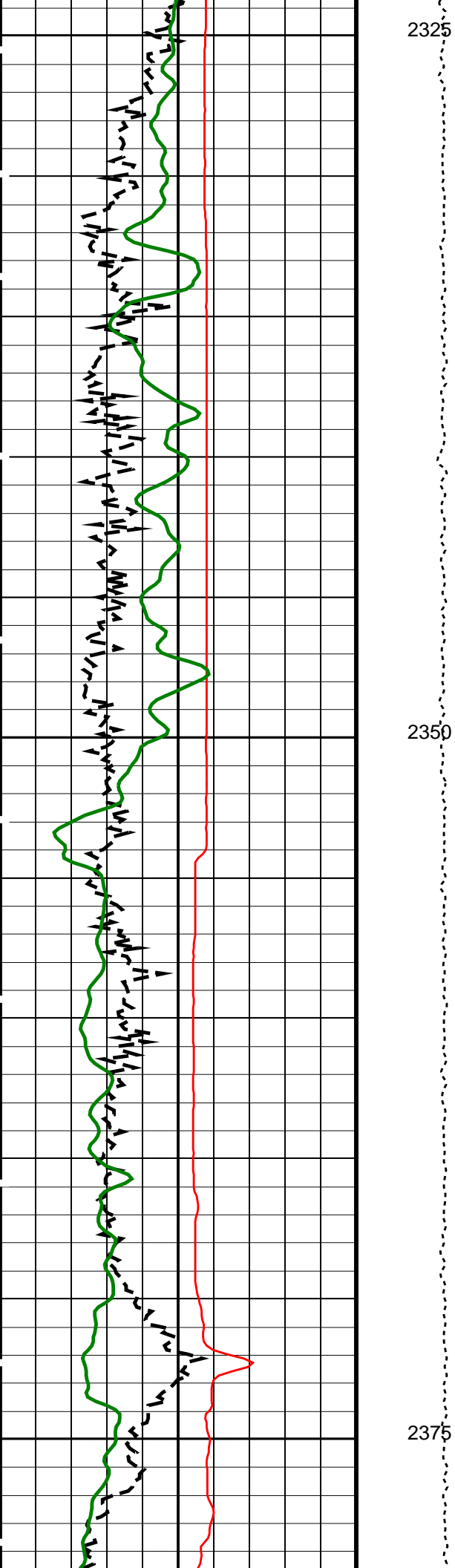


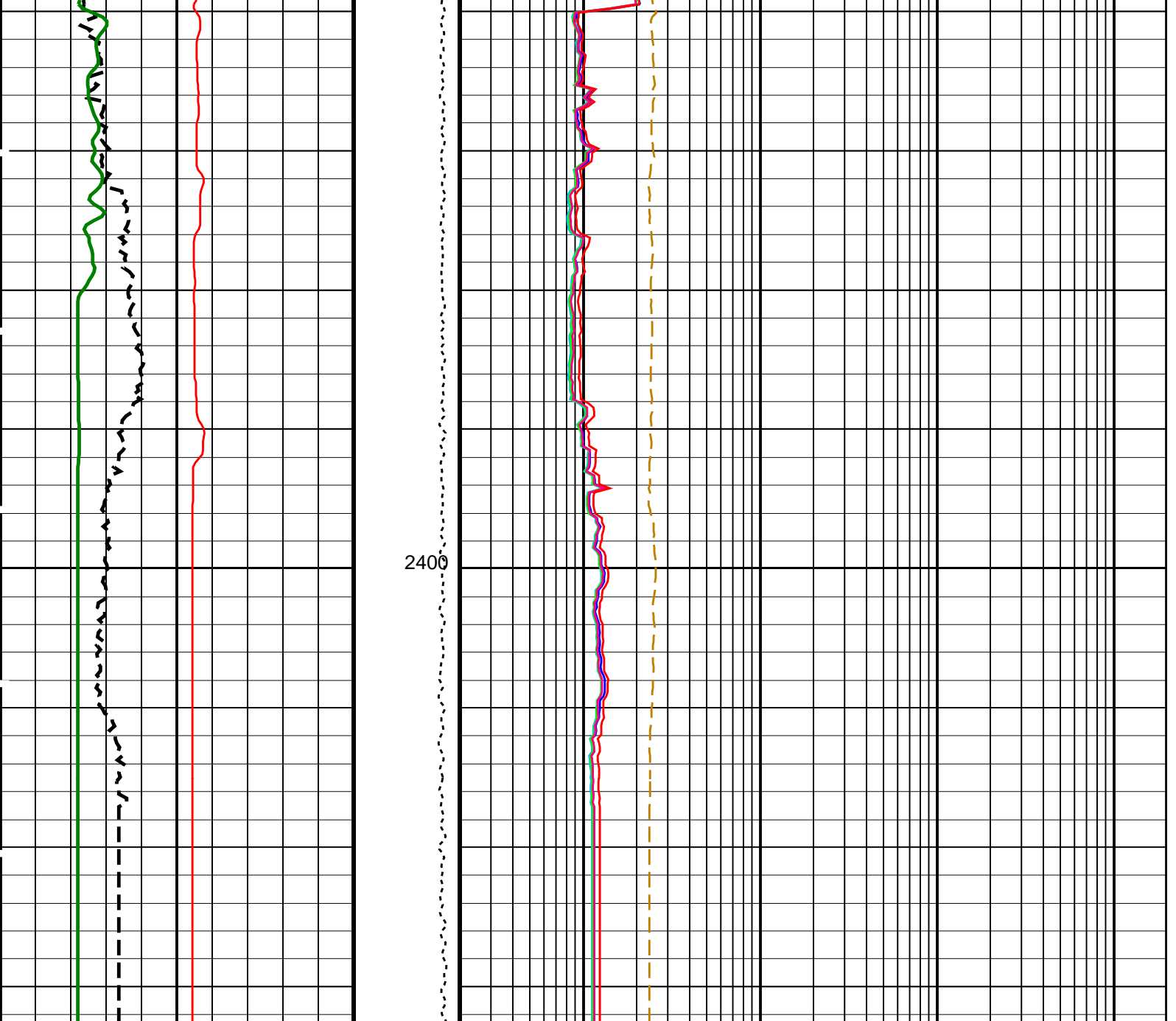


2275

2300







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

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)	7	DEGC
GCSE	Generalized Caliper Selection	LCAL	
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	
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	Eccentered	
SHT	Surface Hole Temperature	20	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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	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	NONE	
GCSE	Generalized Caliper Selection	LCAL	
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	-0.000947187	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973083	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.989447	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3
TD	Total Depth	2292	M

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 05-Sep-2021 10:23

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23

Company: International Ocean Discovery Program Well: Expedition 396, Site U1570D

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23	2416.3 M	2208.3 M

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
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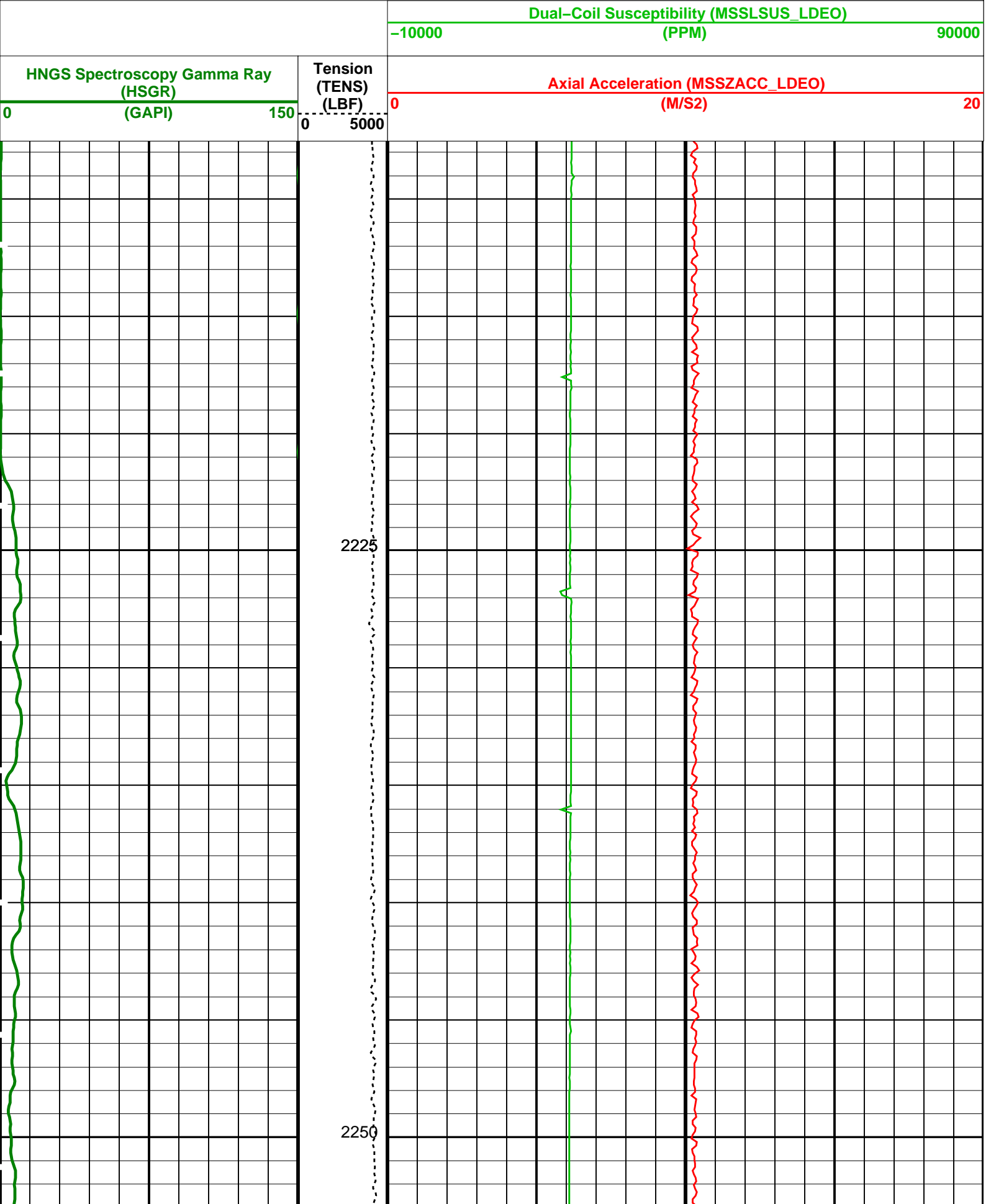
HLDS 19C0-187
HNGC-B 19C0-187
DTC-H 19C0-187

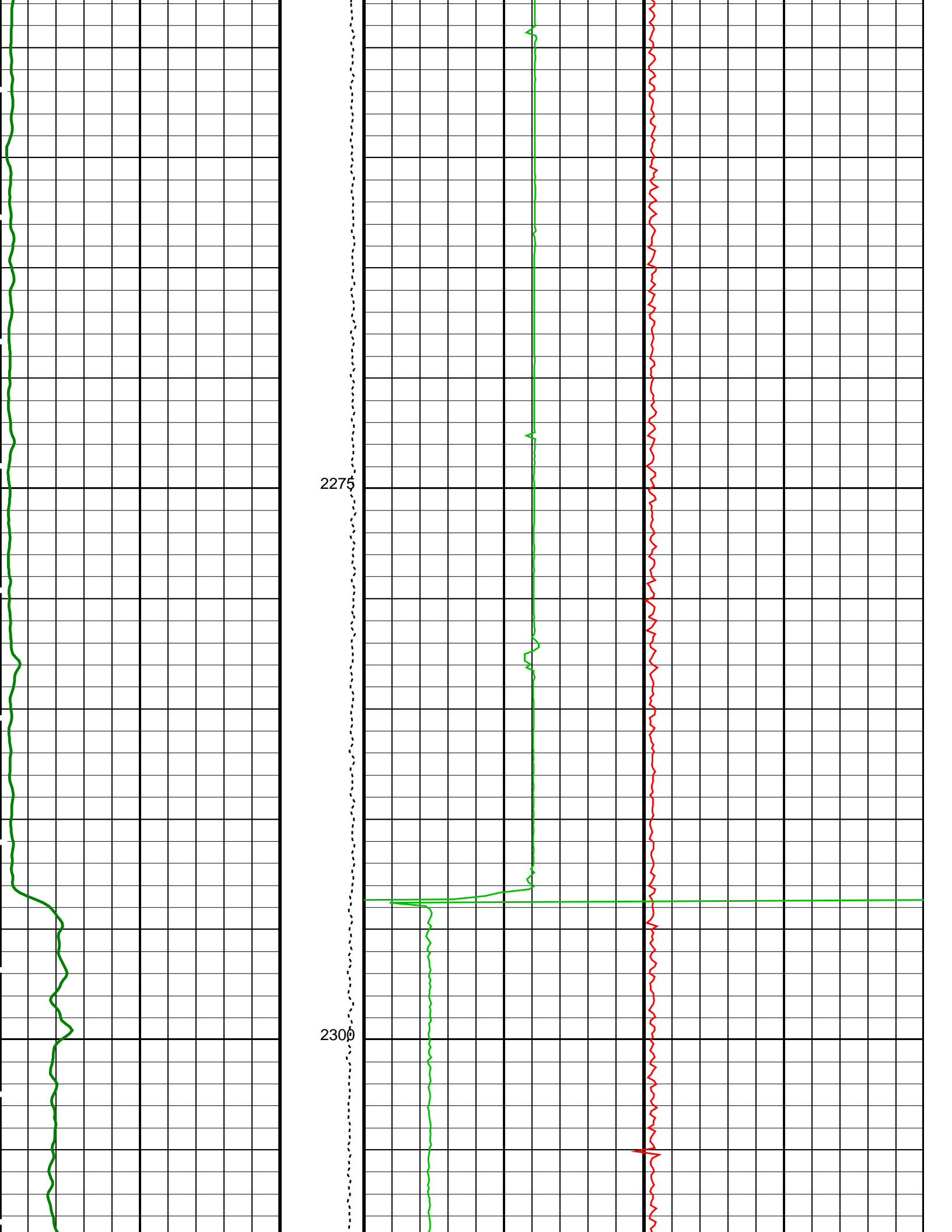
LDSC-B
HNGS-BA

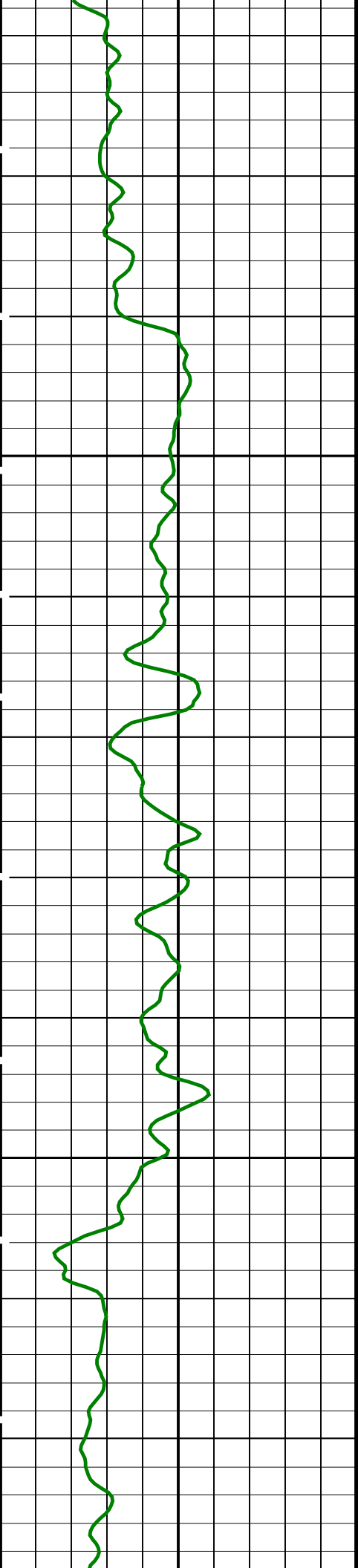
19C0-187
19C0-187

PIP SUMMARY

Time Mark Every 60 S

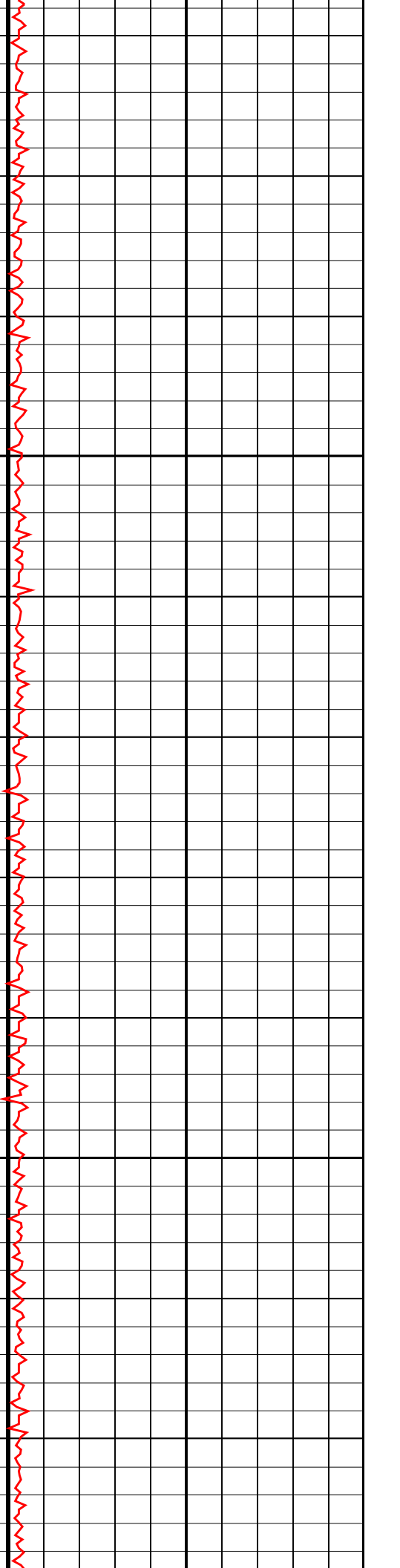
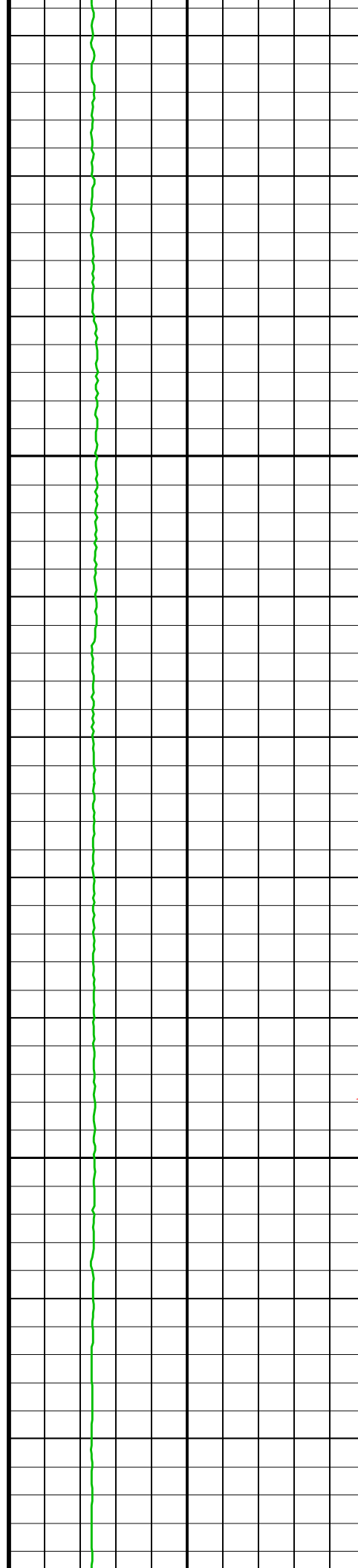


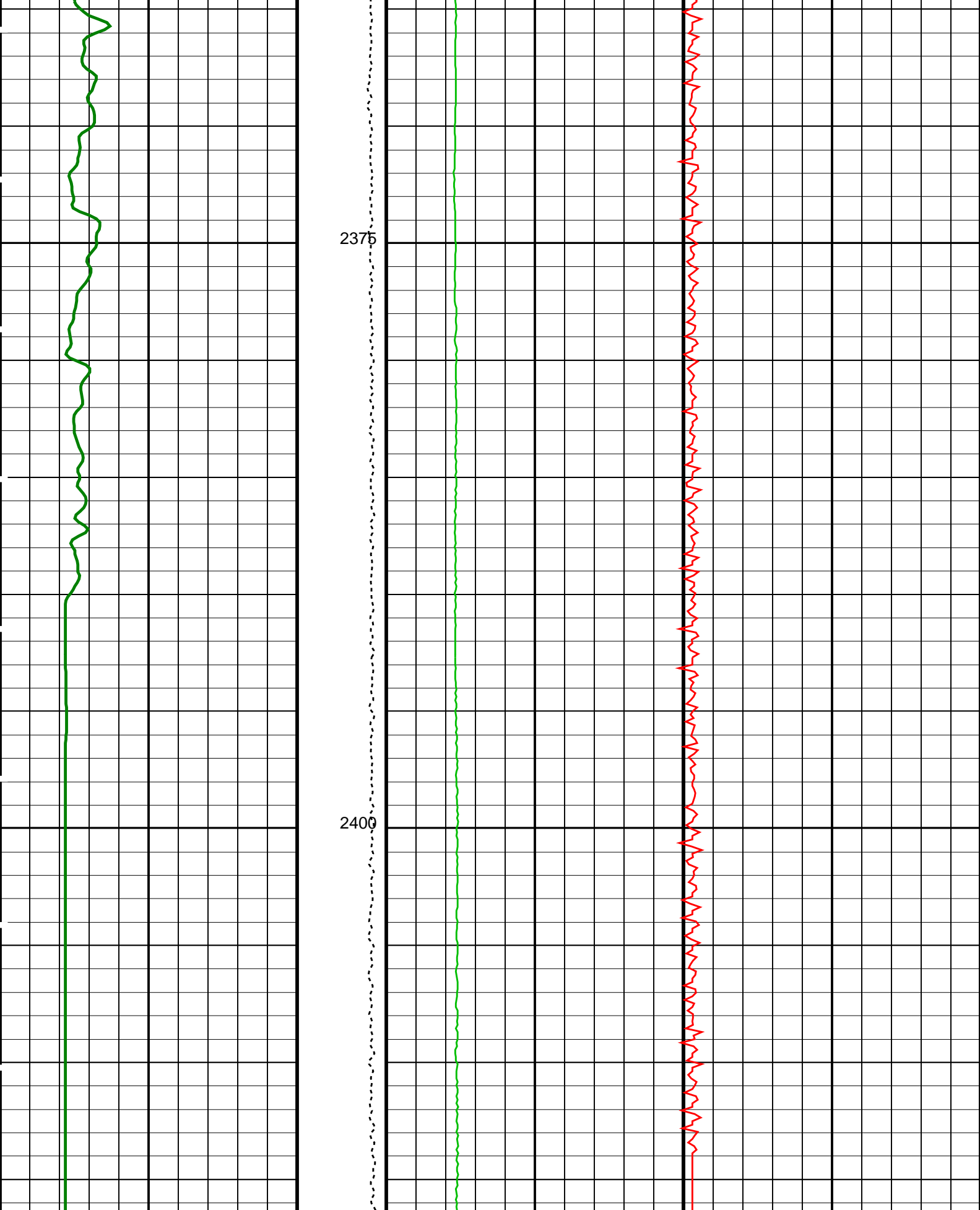




2325

2350





HNGS Spectroscopy Gamma Ray
(HSGR)
(GAPI) 150

Tension
(TENS)
(LBF) 5000

Axial Acceleration (MSSZACC_LDEO)
(M/S²) 20

Dual Coil Susceptibility (MSSI SUS_LDEO)

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	-0.000947187	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
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	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.973083	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.989447	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.26	G/C3

Format: MSS_Logging

Vertical Scale: 1:200

Graphics File Created: 05-Sep-2021 10:23

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
DTC-H	19C0-187		

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022LUP	FN:14	PRODUCER	05-Sep-2021 10:23
RTB	MSS_LDEO_HRLA_LDL_022LUP	FN:15	PRODUCER	05-Sep-2021 10:23

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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High Resolution Laterolog Array – B Wellsite Calibration – HRLT M0

Before: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT M0-M1 Voltage Plus – 0	0	N/A	-318.6	-318.6	0.01935	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-330.2	-330.2	-0.01102	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-337.4	-337.7	-0.2768	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-328.3	-328.3	0.009521	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-319.8	-319.8	0.04614	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-321.5	-321.5	-0.002808	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	319.3	319.3	0.04584	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT M1-M2 Voltage Plus – 0	0	N/A	1739	1738	-0.9237	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1810	1809	-0.6631	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1842	1843	0.7126	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1790	1790	-0.8821	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1743	1742	-1.071	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1753	1752	-0.8438	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1758	-1757	0.7609	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT M2-M3 Voltage Plus – 0	0	N/A	1731	1731	-0.5533	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1811	1811	0.07458	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1846	1847	0.7717	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1797	1797	-0.07764	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1745	1744	-0.6439	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1756	1755	-0.3848	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1748	-1748	0.3361	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT A3-A4 Voltage Plus – 0	0	N/A	68630	68620	-5.016	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	71630	71640	9.148	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	73300	73350	46.83	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	71630	71630	-1.516	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	69480	69460	-24.06	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69940	69910	-28.48	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-68190	-68190	0	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT A4-A5 Voltage Plus – 0	0	N/A	68720	68700	-18.82	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	71830	71840	9.141	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	73480	73530	45.18	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	71780	71790	0.7656	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	69590	69570	-16.71	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	70030	70010	-21.36	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-68400	-68400	-0.8594	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT A5-A6 Voltage Plus – 0	0	N/A	68560	68540	-20.70	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	71690	71690	4.570	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	73330	73390	59.98	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	71660	71660	-4.555	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	69450	69440	-12.70	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	69900	69900	-3.242	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	-68240	-68240	-1.727	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT Torpedo-M0 Voltage – 0	0	N/A	-68100	-68080	15.57	2100	UV
HRLT Torpedo-M0 Voltage – 1	0	N/A	-71500	-71500	-6.086	2100	UV
HRLT Torpedo-M0 Voltage – 2	0	N/A	-73170	-73220	-43.80	2100	UV
HRLT Torpedo-M0 Voltage – 3	0	N/A	-71560	-71560	3.609	2100	UV
HRLT Torpedo-M0 Voltage – 4	0	N/A	-69420	-69400	20.43	2100	UV
HRLT Torpedo-M0 Voltage – 5	0	N/A	-69860	-69850	14.83	2100	UV
HRLT Torpedo-M0 Voltage – 6	0	N/A	68000	68000	4.945	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT Bridle#9-M0 Voltage – 0	0	N/A	-68140	-68130	8.984	2100	UV
HRLT Bridle#9-M0 Voltage – 1	0	N/A	-71580	-71590	-8.695	2100	UV
HRLT Bridle#9-M0 Voltage – 2	0	N/A	-73260	-73230	53.18	2100	UV

HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73260	-73320	-33.18	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71640	-71640	2.172	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69460	-69450	14.68	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69900	-69880	20.40	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68090	68090	-0.8281	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT Source Current Plus - 0	0	N/A	284.2	284.2	-0.002625	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: 5-Sep-2021 8:12 After: 5-Sep-2021 12:24

HRLT Vertical Voltage PI - 0	0	N/A	-320.6	-320.3	0.3201	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-325.2	-324.9	0.2221	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-331.1	-331.0	0.05283	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-320.3	-320.0	0.2917	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-309.1	-308.8	0.2887	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.6	-325.3	0.2950	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	327.0	326.7	-0.2959	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	-322.7	0	9.681	UV

Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement

Master: Calibration out of date 2-May-2021 7:20 Before: 5-Sep-2021 8:15 After: 5-Sep-2021 12:27

SS Cs Resolution Bkg	9.000	7.698	7.702	7.648	-0.05352	1.800	%
LS Cs Resolution Bkg	9.000	7.989	7.982	8.011	0.02887	1.800	%
LSW1 Background	100.0	71.96	69.25	70.78	1.521	3.000	CPS
LSW2 Background	100.0	65.02	63.63	64.47	0.8364	3.000	CPS
LSW3 Background	200.0	146.1	145.6	144.2	-1.338	6.000	CPS
LSW4 Background	250.0	183.2	178.7	181.8	3.100	7.500	CPS
LSW5 Background	600.0	424.9	420.7	420.4	-0.3299	18.00	CPS
SSW1 Background	100.0	68.97	68.19	67.74	-0.4523	3.000	CPS
SSW2 Background	200.0	118.2	117.5	117.7	0.1749	6.000	CPS
SSW3 Background	500.0	331.3	328.0	327.1	-0.9327	15.00	CPS
SSW4 Background	270.0	178.4	177.9	176.2	-1.654	8.100	CPS
SSW5 Background	200.0	127.4	126.3	125.9	-0.4092	6.000	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement

Master: Calibration out of date 2-May-2021 7:46

LSW1 Aluminum	600.0	437.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	651.2	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	787.2	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	396.8	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	364.1	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2070	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5832	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8191	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3322	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	384.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: Calibration out of date 2-May-2021 7:41

LSW1 Iron	400.0	298.6	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	524.2	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	699.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	360.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	333.9	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1520	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4870	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7479	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3030	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	343.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: Calibration out of date 2-May-2021 8:12

HLDS Caliper Small Ring	12.00	N/A	16.10	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.13	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: Calibration out of date 2-May-2021 10:04 Before: 5-Sep-2021 8:16 After: 5-Sep-2021 12:28

Na 511 Peak Loc	40.00	39.25	39.60	39.79	0.1892	1.000	
Na 511 Peak Res	15.50	16.53	15.69	15.51	-0.1810	2.000	%
High Voltage	1150	1197	1173	1174	1.272	N/A	V
Na 1785 Peak Loc	142.6	141.8	142.3	141.7	-0.6377	7.000	
Na 1785 Peak Res	8.500	8.905	8.528	10.88	2.348	2.000	%

Temperature	15.50	26.59	14.36	14.31	-0.04541	N/A	DEGC
Na Count Rate	45.00	12.01	10.84	11.17	0.3311	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: Calibration out of date 2-May-2021 10:04 Before: 5-Sep-2021 8:16 After: 5-Sep-2021 12:28

Na 511 Peak Loc	40.00	39.88	39.64	39.65	0.002850	1.000	
Na 511 Peak Res	15.50	15.29	15.87	15.12	-0.7509	2.000	%
High Voltage	1150	1122	1099	1097	-1.795	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.2	140.9	-0.2853	7.000	
Na 1785 Peak Res	8.500	8.040	9.093	8.532	-0.5603	2.000	%
Temperature	15.50	27.21	14.94	15.72	0.7800	N/A	DEGC
Na Count Rate	45.00	12.32	10.93	11.30	0.3753	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2

Master: Calibration out of date 2-May-2021 10:04 Before: 5-Sep-2021 8:16 After: 5-Sep-2021 12:28

Coincidence Count Rate Ratio	1.000	0.9728	0.9945	0.9862	-0.008349	0.05000	
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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	1897
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		-318.6	-322.7	-280.7	-379.7
	After		-318.6			
1	Before		-330.2	-322.7	-280.7	-379.7
	After		-330.2			
2	Before		-337.4	-322.7	-280.7	-379.7
	After		-337.7			
3	Before		-328.3	-322.7	-280.7	-379.7
	After		-328.3			
4	Before		-319.8	-322.7	-280.7	-379.7
	After		-319.8			
5	Before		-321.5	-322.7	-280.7	-379.7
	After		-321.5			
6	Before		319.3	322.7	379.7	280.7
	After		319.3			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
		(Minimum) (Nominal) (Maximum)				



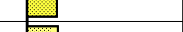

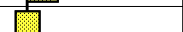
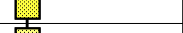

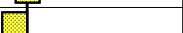



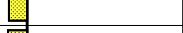
Before: 5-Sep-2021 8:12

After: 5-Sep-2021 12:24

High Resolution Laterolog Array – B Wellsite Calibration

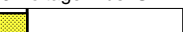
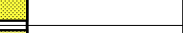


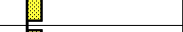

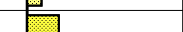


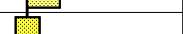
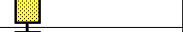

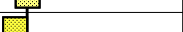
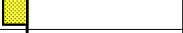

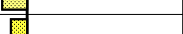
HRLT M12

Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1739	1781	2095	1549
	After		1738			
1	Before		1810	1781	2095	1549
	After		1810			

2	After		1809	1781	2095	1549
	Before		1842			
3	After		1843	1781	2095	1549
	Before		1790			
4	After		1742	1781	2095	1549
	Before		1743			
5	After		1752	1781	2095	1549
	Before		1753			
6	After		-1757	-1781	-1549	-2095
	Before		-1758			
7	After		1781	1781	2095	1549
	Before		1781			
(Minimum) (Nominal) (Maximum)						


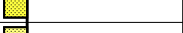

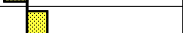
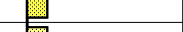

Before: 5-Sep-2021 8:12

After: 5-Sep-2021 12:24

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	After		1731	1781	2095	1549
	Before		1731			
1	After		1811	1781	2095	1549
	Before		1811			
2	After		1846	1781	2095	1549
	Before		1847			
3	After		1797	1781	2095	1549
	Before		1797			
4	After		1744	1781	2095	1549
	Before		1745			
5	After		1755	1781	2095	1549
	Before		1756			
6	After		-1748	-1781	-1549	-2095
	Before		-1748			
7	After		1781	1781	2095	1549
	Before		1781			
(Minimum) (Nominal) (Maximum)						

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	After		68620	70000	82360	60900
	Before		68630			
1	After		71630	70000	82360	60900
	Before		71640			
2	After		73300	70000	82360	60900
	Before		73300			

Idx	Phase	HRLT A4--A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
3	After		73350	70000	82360	60900
	Before		71630			
4	After		71630	70000	82360	60900
	Before		69480			
5	After		69910	70000	82360	60900
	Before		69940			
6	After		-68190	-70000	-60900	-82360
	Before		-68190			
7	After		70000	70000	82360	60900
	Before		70000			
(Minimum) (Nominal) (Maximum)						
Before: 5-Sep-2021 8:12						
After: 5-Sep-2021 12:24						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4--A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	After		68720	70000	82360	60900
	Before		68700			
1	After		71840	70000	82360	60900
	Before		71830			
2	After		73530	70000	82360	60900
	Before		73480			
3	After		71790	70000	82360	60900
	Before		71780			
4	After		69570	70000	82360	60900
	Before		69590			
5	After		70010	70000	82360	60900
	Before		70030			
6	After		-68400	-70000	-60900	-82360
	Before		-68400			
7	After		70000	70000	82360	60900
	Before		70000			
(Minimum) (Nominal) (Maximum)						
Before: 5-Sep-2021 8:12						
After: 5-Sep-2021 12:24						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5--A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	After		68560	70000	82360	60900
	Before		68540			
1	After		71690	70000	82360	60900
	Before		71690			
2	After		73390	70000	82360	60900
	Before		73330			
3	After		71660	70000	82360	60900
	Before		71660			

	Phase	Value	Nominal	Maximum	Minimum
4	After	71660	70000	82360	60900
	Before	69450			
5	After	69440	70000	82360	60900
	Before	69900			
6	After	69900	-70000	-60900	-82360
	Before	-68240			
7	After	70000	70000	82360	60900
	Before	70000			
		(Minimum)	(Nominal)	(Maximum)	

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High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VTP							
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	After		-68100	-70000	-60900	-82360	
	Before		-68080				
1	After		-71500	-70000	-60900	-82360	
	Before		-71500				
2	After		-73170	-70000	-60900	-82360	
	Before		-73220				
3	After		-71560	-70000	-60900	-82360	
	Before		-71560				
4	After		-69420	-70000	-60900	-82360	
	Before		-69400				
5	After		-69860	-70000	-60900	-82360	
	Before		-69850				
6	After		68000	70000	82360	60900	
	Before		68000				
7	After		-70000	-70000	-60900	-82360	
	Before		-70000				
		(Minimum)	(Nominal)	(Maximum)			

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After: 5-Sep-2021 12:24

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	After		-68140	-70000	-60900	-82360	
	Before		-68130				
1	After		-71580	-70000	-60900	-82360	
	Before		-71590				
2	After		-73260	-70000	-60900	-82360	
	Before		-73320				
3	After		-71640	-70000	-60900	-82360	
	Before		-71640				
4	After		-69460	-70000	-60900	-82360	
	Before		-69460				

	After		-69450	70000	60900	62360
5	Before		-69900	-70000	-60900	-82360
	After		-69880			
6	Before		68090	70000	82360	60900
	After		68090			
7	Before		-70000	-70000	-60900	-82360
	After		-70000			
			(Minimum)	(Nominal)	(Maximum)	

Before: 5-Sep-2021 8:12
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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		284.2			
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: 5-Sep-2021 8:12
After: 5-Sep-2021 12:24

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.6	-322.7	-280.7	-379.7
	After		-320.3			
1	Before		-325.2	-322.7	-280.7	-379.7
	After		-324.9			
2	Before		-331.1	-322.7	-280.7	-379.7
	After		-331.0			
3	Before		-320.3	-322.7	-280.7	-379.7
	After		-320.0			
4	Before		-309.1	-322.7	-280.7	-379.7
	After		-308.8			
5	Before		-325.6	-322.7	-280.7	-379.7

6	After		-325.3	-322.7	-280.7	-379.7
	Before		327.0	322.7	379.7	280.7
	After		326.7			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
				(Minimum)	(Nominal)	(Maximum)

Before: 5-Sep-2021 8:12
After: 5-Sep-2021 12:24

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Gamma Source Radioactive	GSR - ZA	2945
Hostile Litho Density Sonde	HLDS - D	77
Hostile Litho Density High Voltage	HLDV - D	67

Auxiliary Equipment:

Hostile Litho Density High Voltage Housi	HEH - H	67
Hostile Litho Density Pad	HLDP - C	83

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		7.698	Master		7.989	Master		71.96
Before		7.702	Before		7.982	Before		69.25
After		7.648	After		8.011	After		70.78
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		65.02	Master		146.1	Master		183.2
Before		63.63	Before		145.6	Before		178.7
After		64.47	After		144.2	After		181.8
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		424.9	Master		68.97	Master		118.2
Before		420.7	Before		68.19	Before		117.5
After		420.4	After		67.74	After		117.7
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		331.3	Master		178.4	Master		127.4
Before		328.0	Before		177.9	Before		126.3
After		327.1	After		176.2	After		125.9
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: Calibration out of date 2-May-2021 7:20 Before: 5-Sep-2021 8:15 After: 5-Sep-2021 12:27

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:

LDSC Cartridge	LDSC - B	521
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Auxiliary Equipment:

LDSC Housing	LDSH - A	319
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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 Gamma Source Radioactive	HNSH – BA GSR – U	102 6098

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check



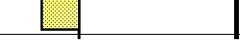
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.25	Master		16.53	Master		1197
Before		39.60	Before		15.69	Before		1173
After		39.79	After		15.51	After		1174
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		141.8	Master		8.905	Master		26.59
Before		142.3	Before		8.528	Before		14.36
After		141.7	After		10.88	After		14.31
	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		12.01						
Before		10.84						
After		11.17						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Master: Calibration out of date 2-May-2021 10:04 Before: 5-Sep-2021 8:16 After: 5-Sep-2021 12:28

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		39.88	Master		15.29	Master		1122
Before		39.64	Before		15.87	Before		1099
After		39.65	After		15.12	After		1097
	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		142.6	Master		8.040	Master		27.21
Before		141.2	Before		9.093	Before		14.94
After		140.9	After		8.532	After		15.72
	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		12.32						
Before		10.93						
After		11.30						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9728
Before		0.9945
After		0.9862
	0.9500 (Minimum)	1.050 (Maximum)
Master: Calibration out of date 2-May-2021 10:04		
Before: 5-Sep-2021 8:16		
After: 5-Sep-2021 12:28		

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A 8799
DTCH - A 8799

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC 9842

Company: International Ocean Discovery Program

Schlumberger

Well: Expedition 396, Site U1570D

Field: Mid-Norwegian Cont. Margin Magmatism

Rig: JOIDES Resolution

Country: Iceland

High Resolution Laterolog (HRLA)

Litho Density (HLDS)

Natural Gamma / MSS (HNGS)