



Company: International Ocean Discovery Program

Well: Expedition 396, Site U1568A

Field: Mid-Norwegian Cont. Margin Magmatism

Rig: JOIDES Resolution Country: Iceland

Natural GR Spectroscopy (HNCS)

Litho-Density (HLDS)

Laterolog Resistivity (HRLA)

Latitude: N 65.3599

Longitude: E 3.051818

Elev.: K.B. 0.00 m  
G.L. -1715.60 m  
D.F. 0.00 m

Permanent Datum: Sea Floor

Elev.: 1715.60 m

Log Measured From: Rig Floor

-1715.60 m above Perm. Datum

Drilling Measured From: Rig Floor

Ocean:  
Atlantic

Max. Well Deviation  
5 deg

Longitude  
E 3.051818

Latitude  
N 65.3599

JOIDES Resolution  
Mid-Norwegian Cont. Margin Ma  
Latitude: N 65.3599  
Expedition 396, Site U1568A  
International Ocean Discovery Pr

LOCATION

Logging Date	25-Aug-2021		
Run Number	2		
Depth Driller	1915.6 m		
Schlumberger Depth	1903 m		
Bottom Log Interval	1900 m		
Top Log Interval	1715.6 m		
Casing Driller Size @ Depth	5.500 in	@	1715.6 m
Casing Schlumberger	1715 m		
Bit Size	11.438 in		
Type Fluid In Hole	Sepeolite WBM		
MUD	Density	Viscosity	1.26 g/cm3
	Fluid Loss	PH	8.07
	Source Of Sample Mudpit		
RM @ Measured Temperature	0.220 ohm.m	@	23 degC
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF	RMC	N/A	N/A
RM @ MRT	RMF @ MRT	0.369 @ 5	@ 5
Maximum Recorded Temperatures 5 degC			
Circulation Stopped	Time	25-Aug-2021	1:00
Logger On Bottom	Time	25-Aug-2021	13:30
Unit Number	Location	627314	Larose, LA
Recorded By	C. Furman		
Witnessed By	S. Midgley		

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

Run 1

Run 2

R

DISCLAIMER

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OTHER SERVICES1

- OS1: DSI
- OS2: FMA
- OS3: Mag. Sus. (MSS)

REMARKS: RUN NUMBER 1

Hole drilled with APC/XCB bottom hole assembly (BHA) at 11.4375" BS

Drill pipe set at 1797mbrf (80mbsf) for logging.

Fluid type was weighted mud, 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 off at 1834mbrf; Caliper closed inside pipe.

First attempt (Run#1) with this string did not reach open-hole due to obstruction, so it was considered an aborted attempt.

Downlog flipped and note the caliper closed logging down.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 19C0-187			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

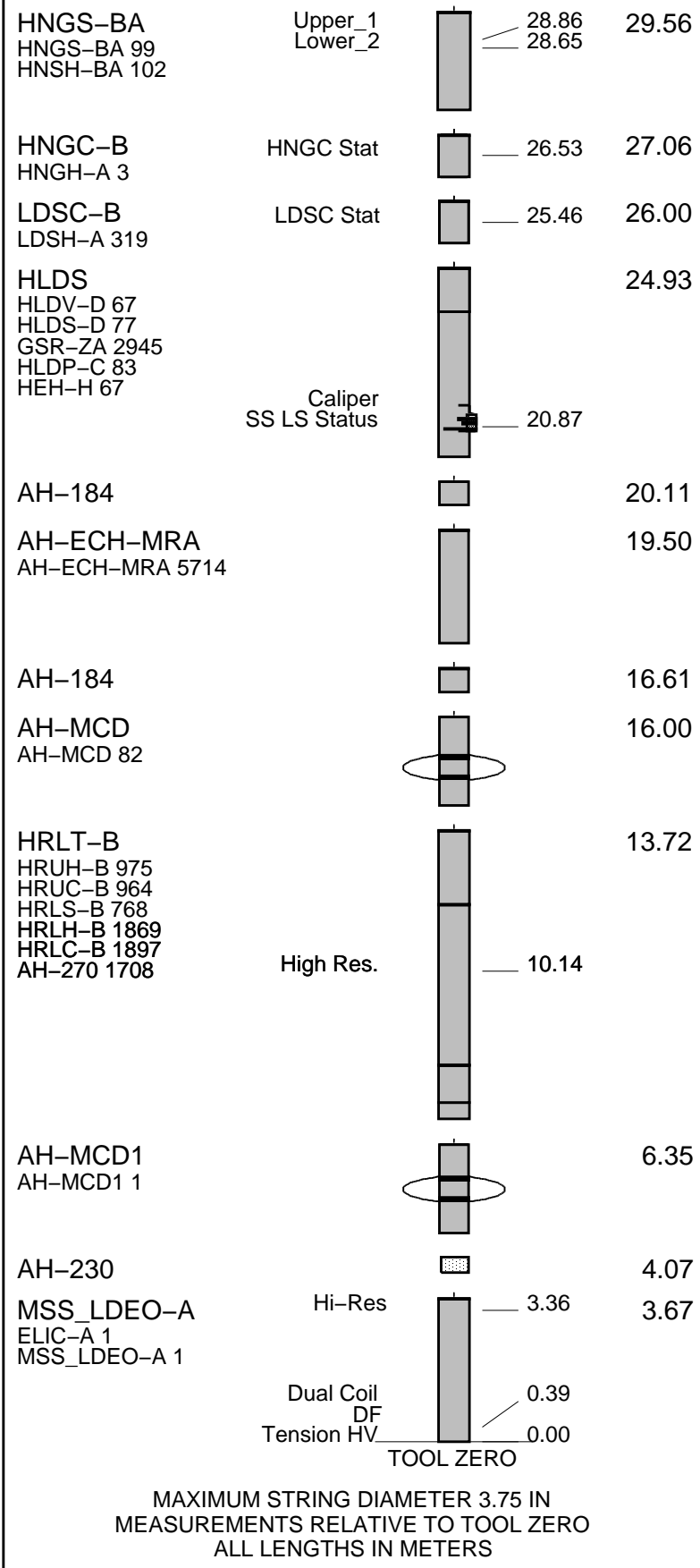
EQUIPMENT DESCRIPTION

RUN 1	RUN 2
<b>SURFACE EQUIPMENT</b>	
GSR-U 6098	
WITM (DTS)-A	

<b>DOWNHOLE EQUIPMENT</b>	
LEH-QT	31.80
LEH-QT 301	
AH-369	30.91
DTC-H	30.48
ECH-KC 9842	29.56



CTEM  
TelStatus  
ToolStatu



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

Kelly Bushing Elevation

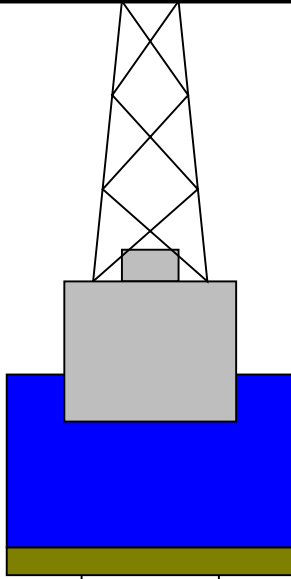
Derrick Floor Elevation

Mean Sea Level

0.0

0.0

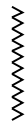
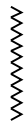
11.1



0.0

5.500

4.125



1715.6  
1797.0

11.438  
5.500

4.125

Sea Floor  
Pipe

1915.6

11.438

Driller's TD

**Schlumberger**

**Downlog**

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1568A

**Input DLIS Files**

DEFAULT	Flip_MSS_LDEO_HRLA_LDL_021LUP	PRODUCER	25-Aug-2021 14:05	1903.9 M	1675.6 M
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**Output DLIS Files**

DEFAULT	MSS_LDEO_HRLA_LDL_022PUP	FN:26	PRODUCER	25-Aug-2021 14:10	1903.9 M	1675.6 M
RTB	MSS_LDEO_HRLA_LDL_022PUP	FN:27	PRODUCER	25-Aug-2021 14:10	1903.9 M	1675.6 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

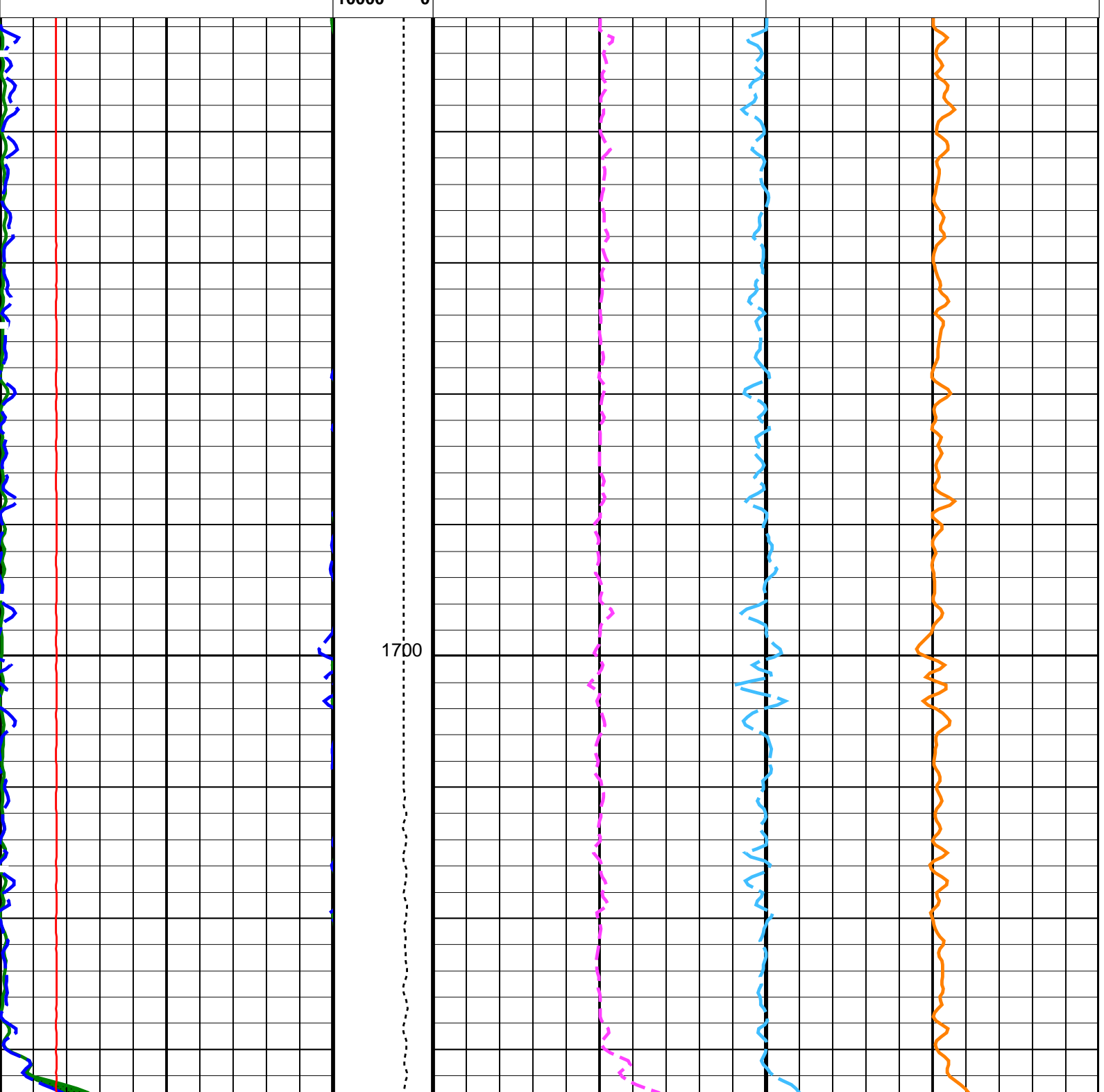
HNGS Uranium (HURA)  
(PPM) -5 5

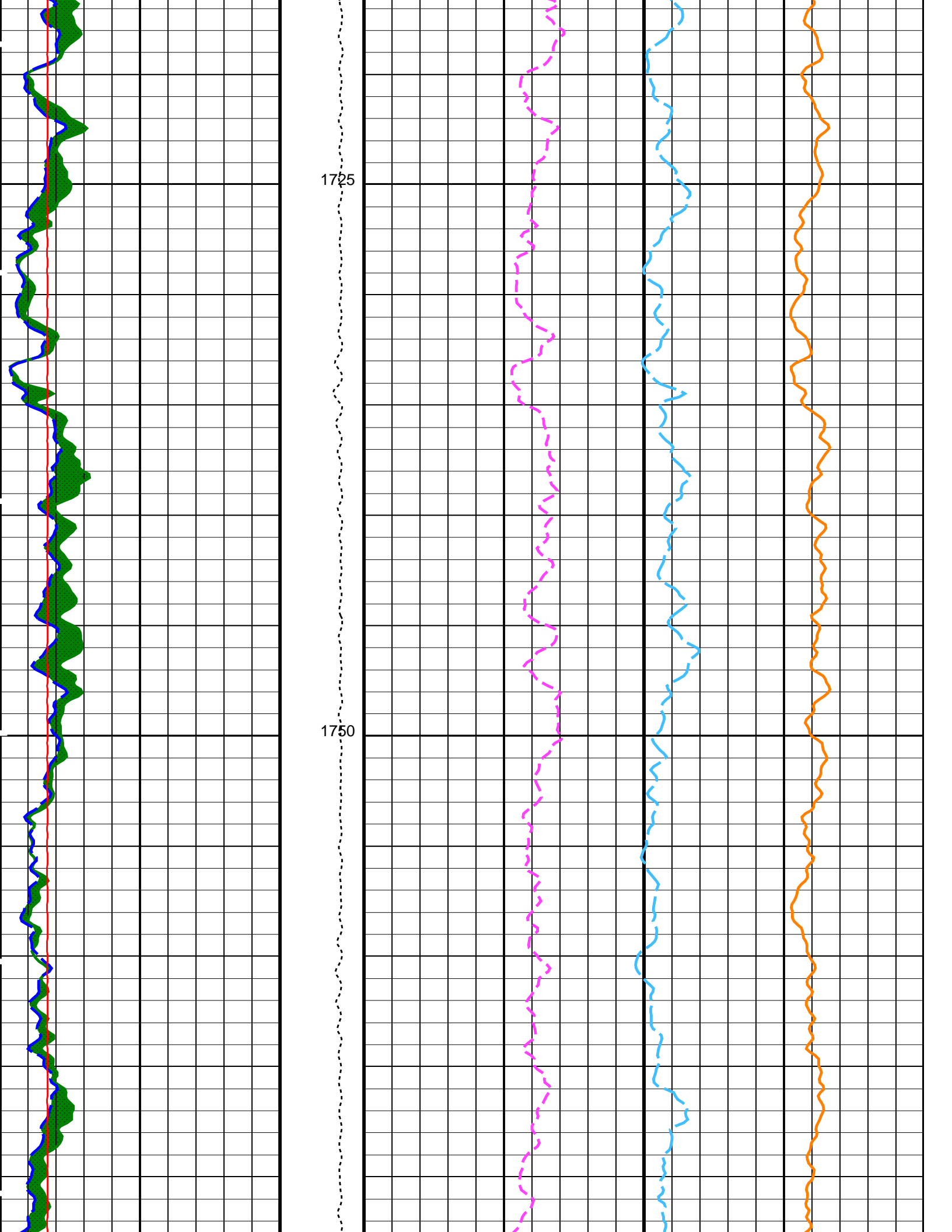
HLDS Caliper (LCAL)  
(IN) 0 20

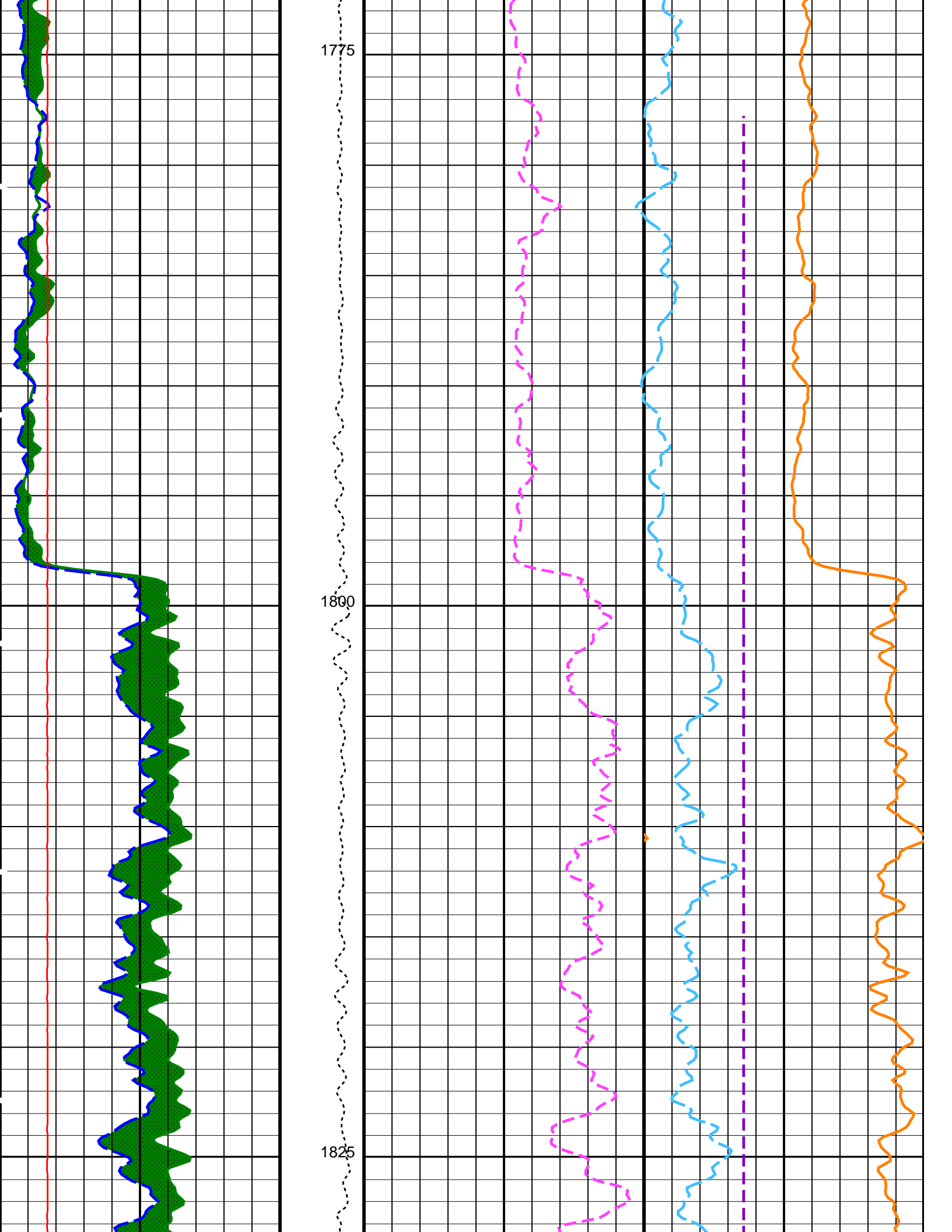
Tension (TENS) (LBF) 10000 0

HNGS Thorium (HTHO)  
(PPM) -5 5

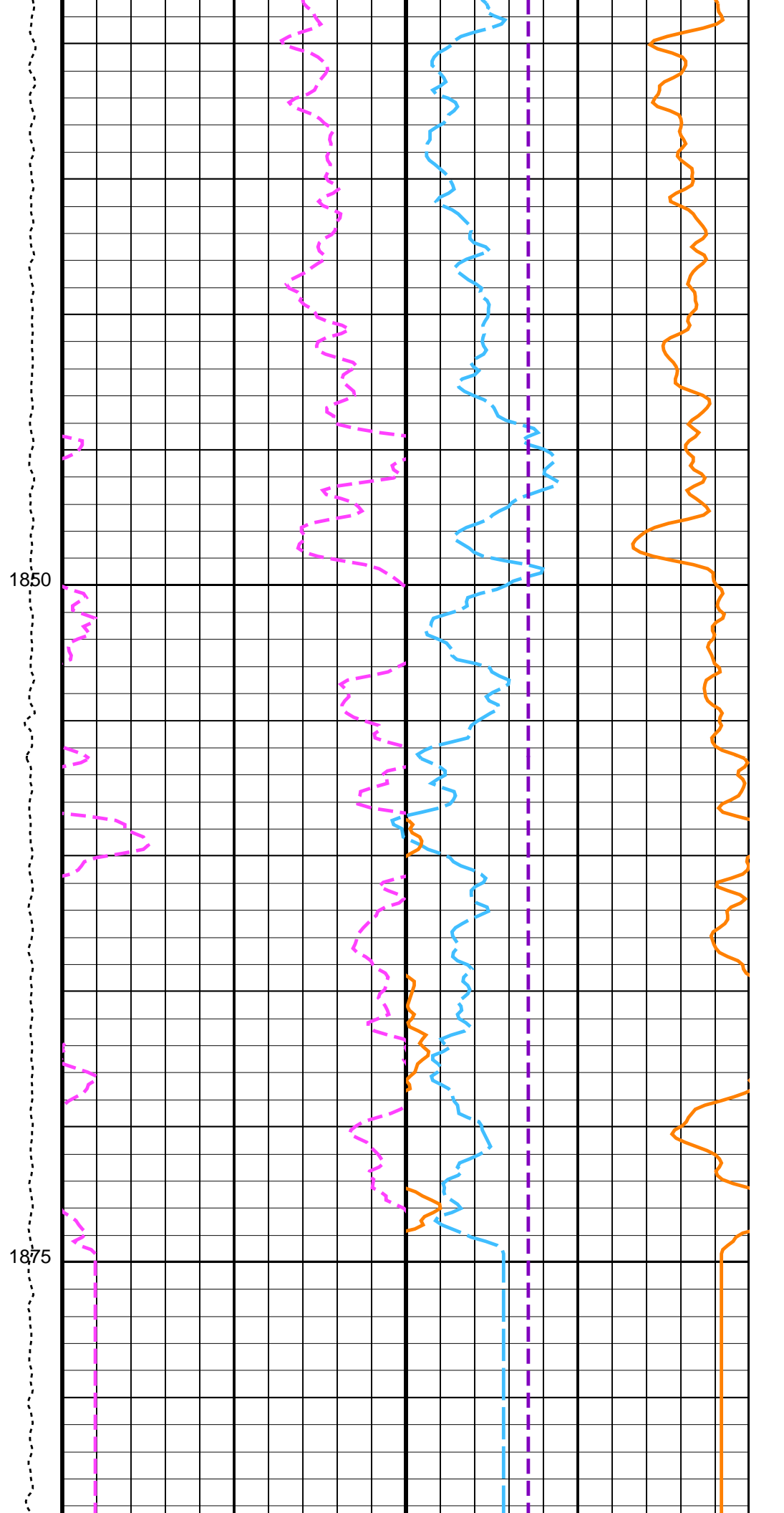
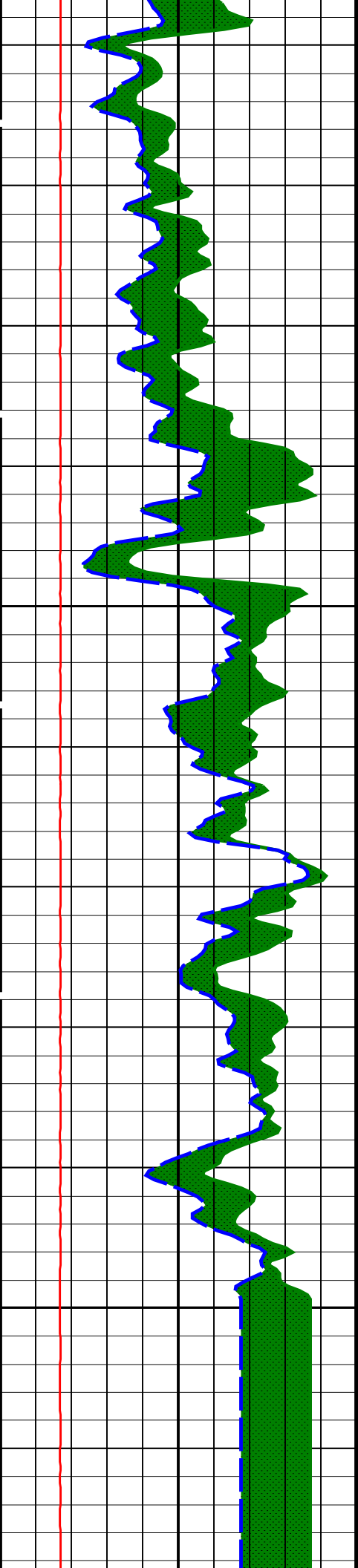
HNGS Potassium (HFK)  
(V/V) -0.01 0.01





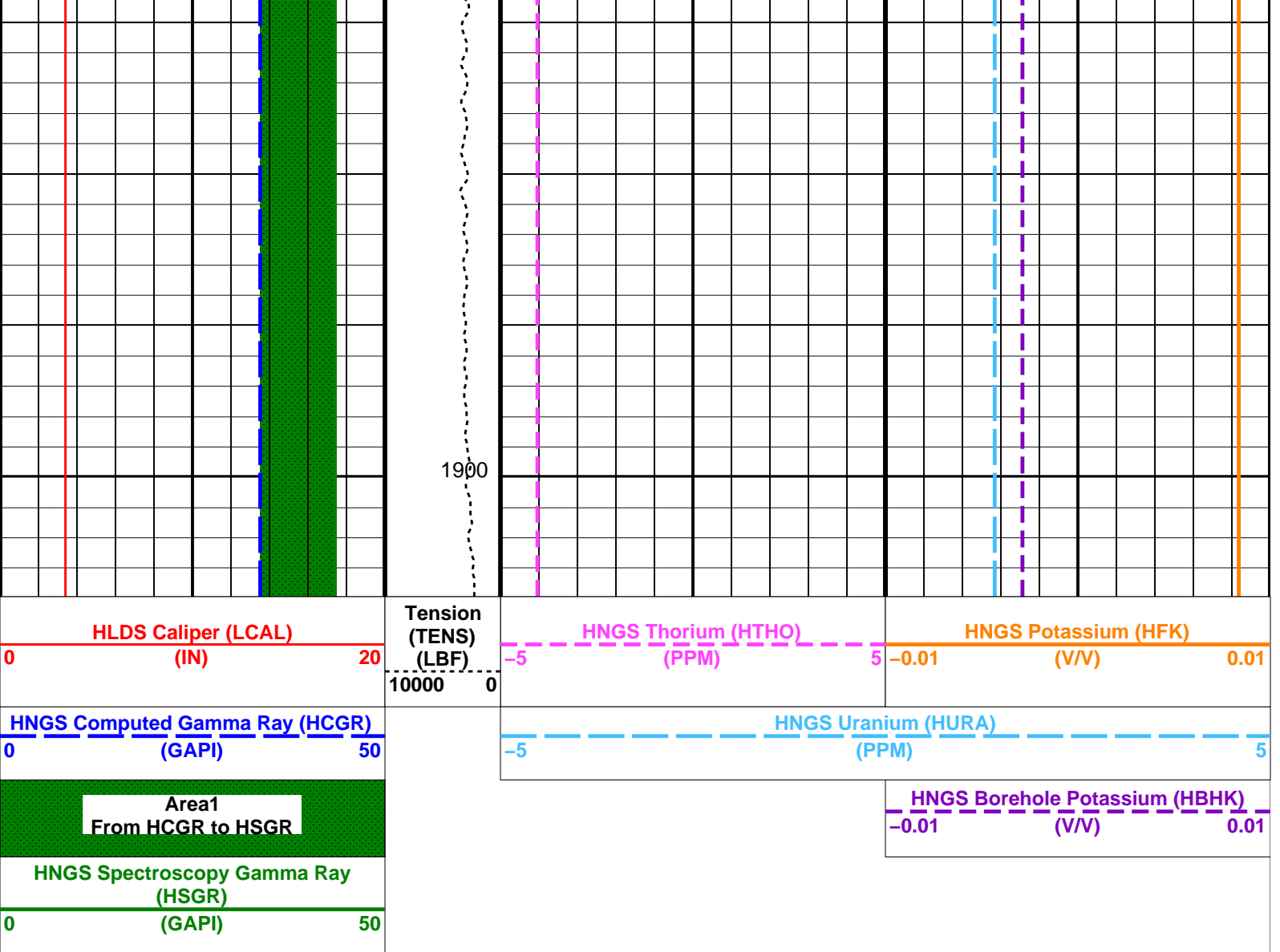






1850

1875



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	-0.010419
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	0.954059
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967493
System and Miscellaneous		

### 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_021LUP	PRODUCER	25-Aug-2021 14:05	1903.9 M	1675.6 M
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#### Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022PUP	FN:26	PRODUCER	25-Aug-2021 14:10	
RTB	MSS_LDEO_HRLA_LDL_022PUP	FN:27	PRODUCER	25-Aug-2021 14:10	

#### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_021LUP	PRODUCER	25-Aug-2021 14:05	1903.9 M	1675.6 M
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#### Output DLIS Files

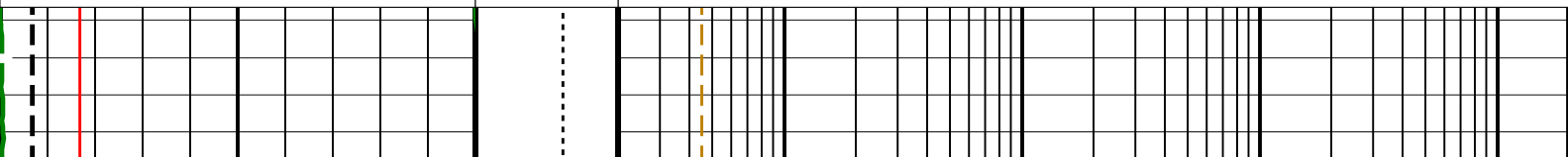
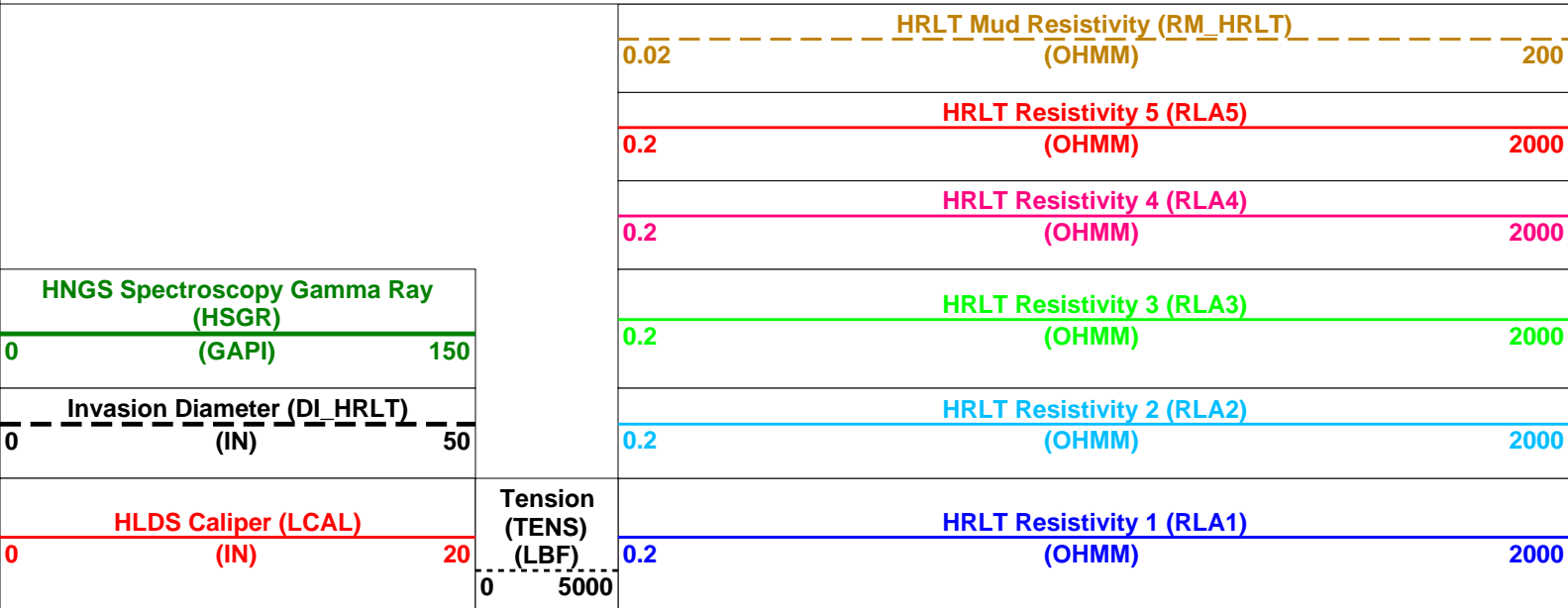
DEFAULT	MSS_LDEO_HRLA_LDL_022PUP	FN:26	PRODUCER	25-Aug-2021 14:10	1903.9 M	1675.6 M
RTB	MSS_LDEO_HRLA_LDL_022PUP	FN:27	PRODUCER	25-Aug-2021 14:10	1903.9 M	1675.6 M

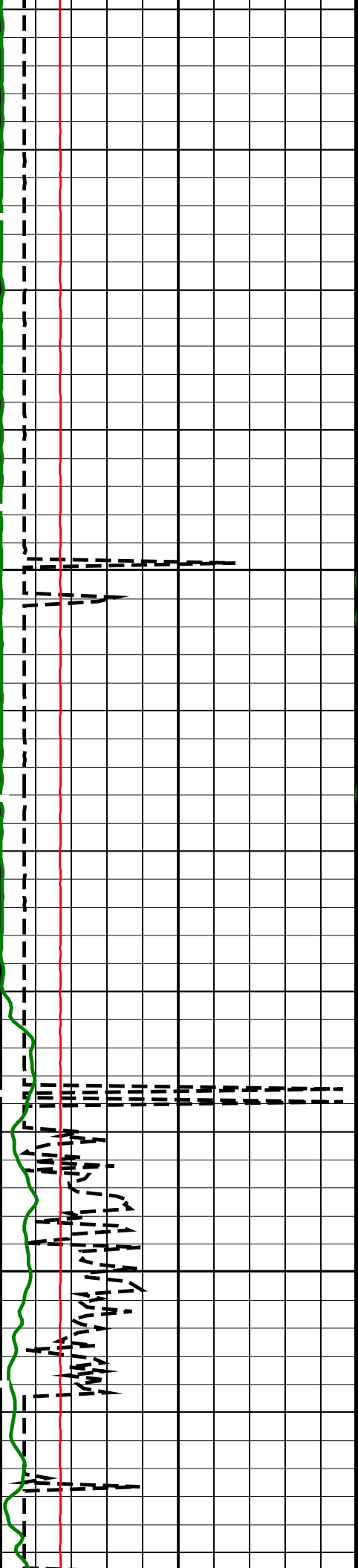
### OP System Version: 19C0-187

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

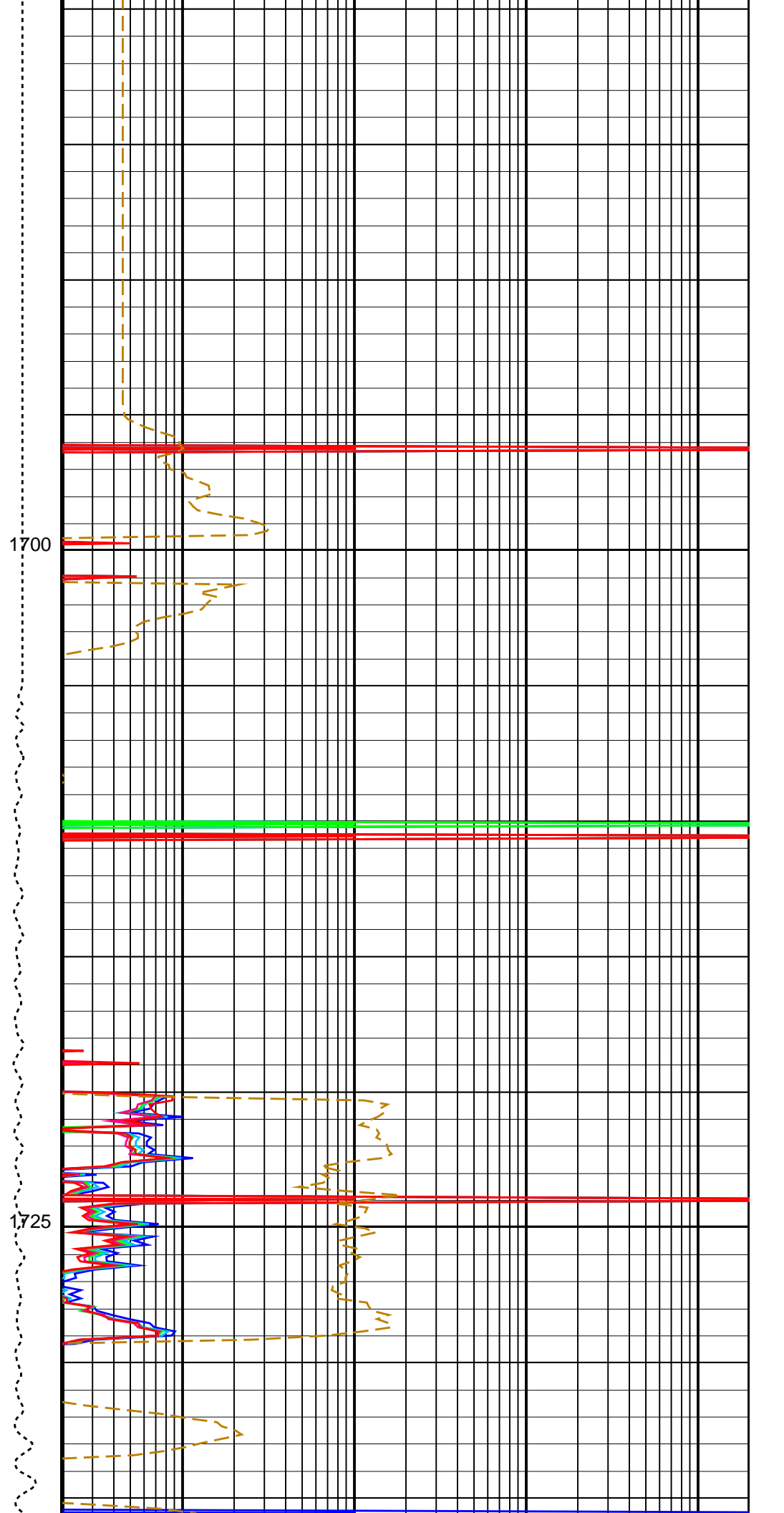
Time Mark Every 60 S

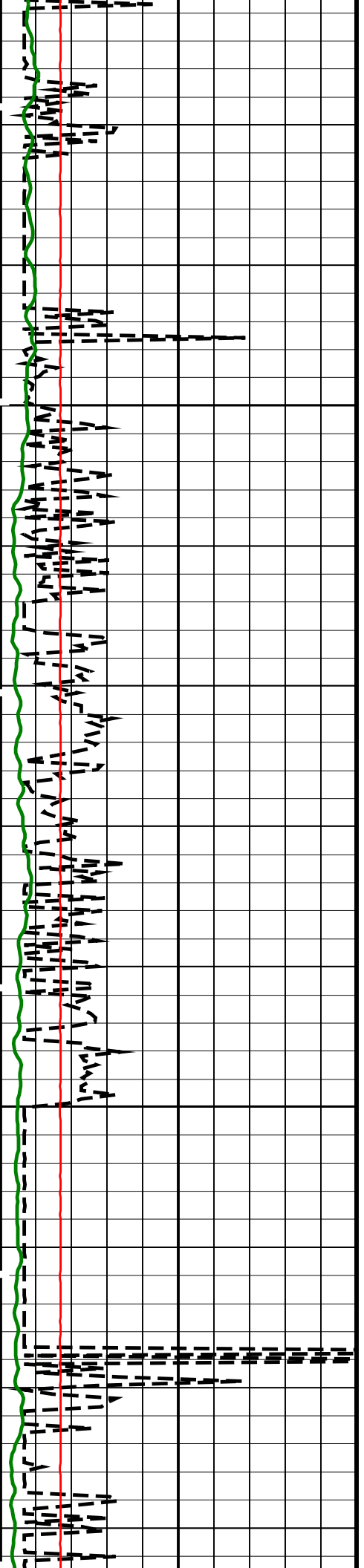




1700

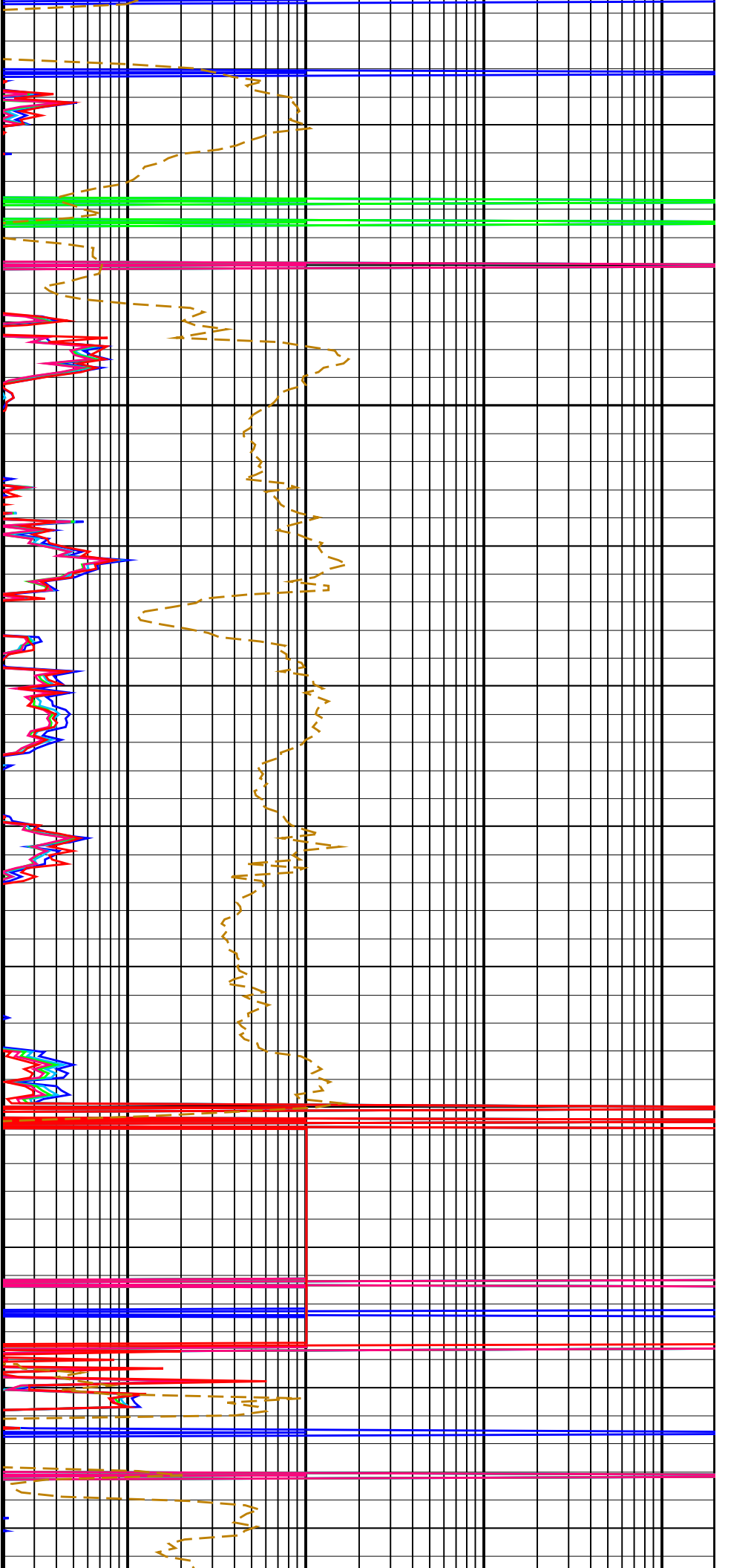
1725

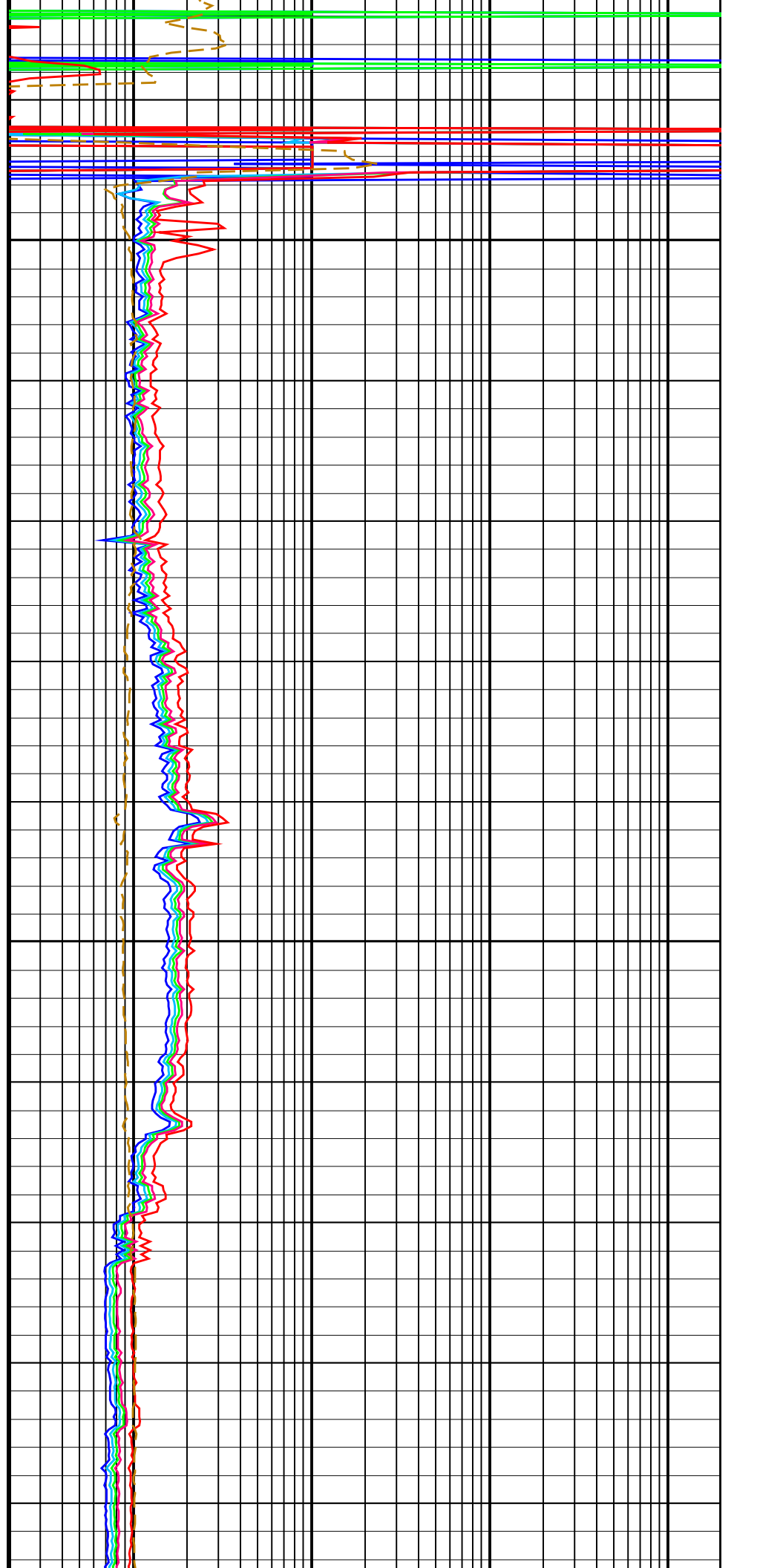
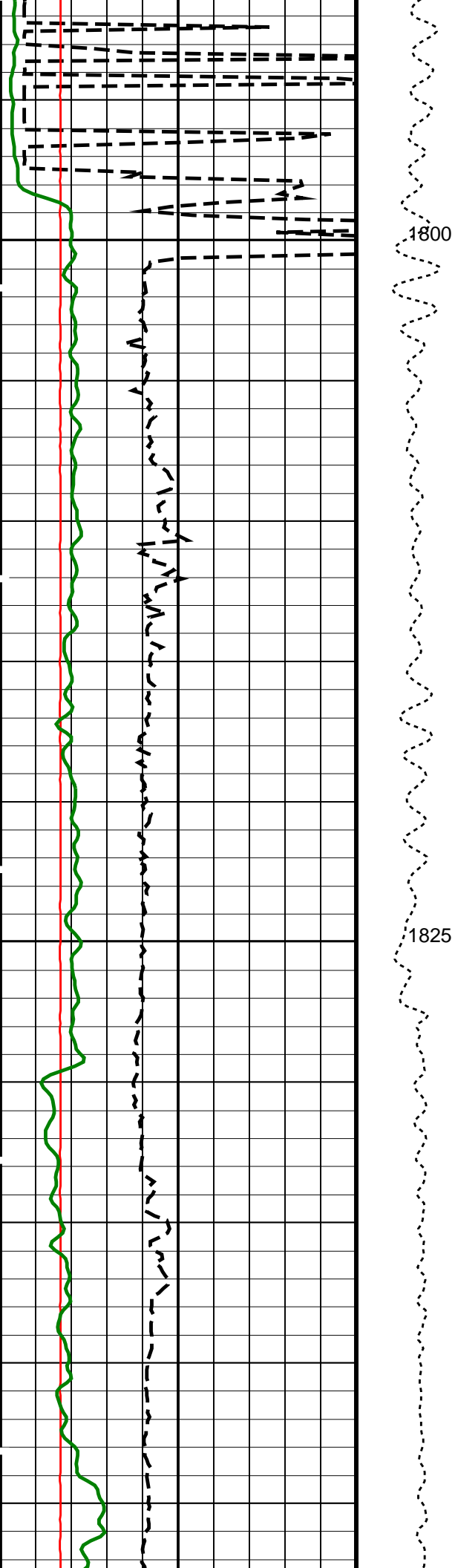


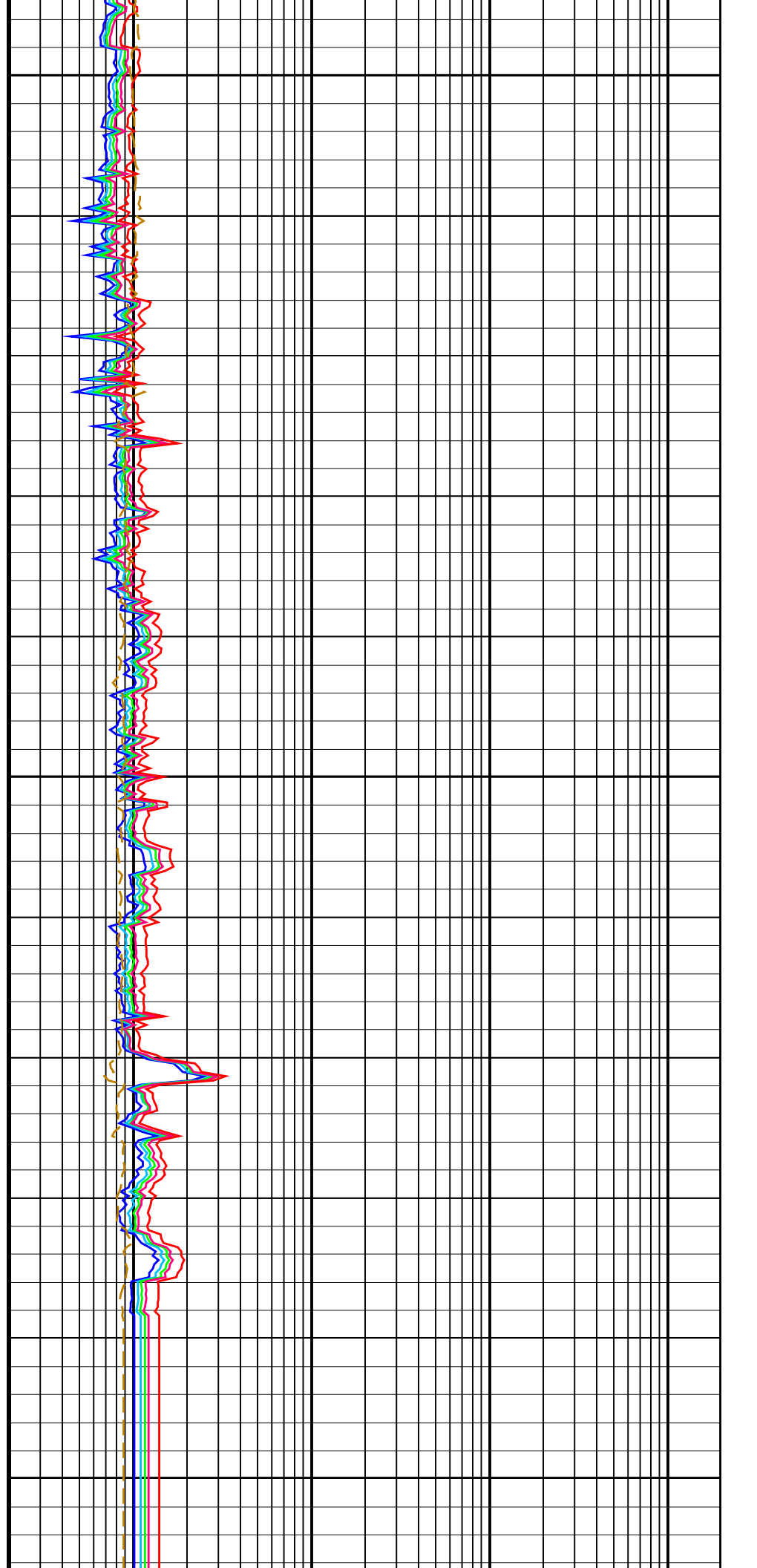
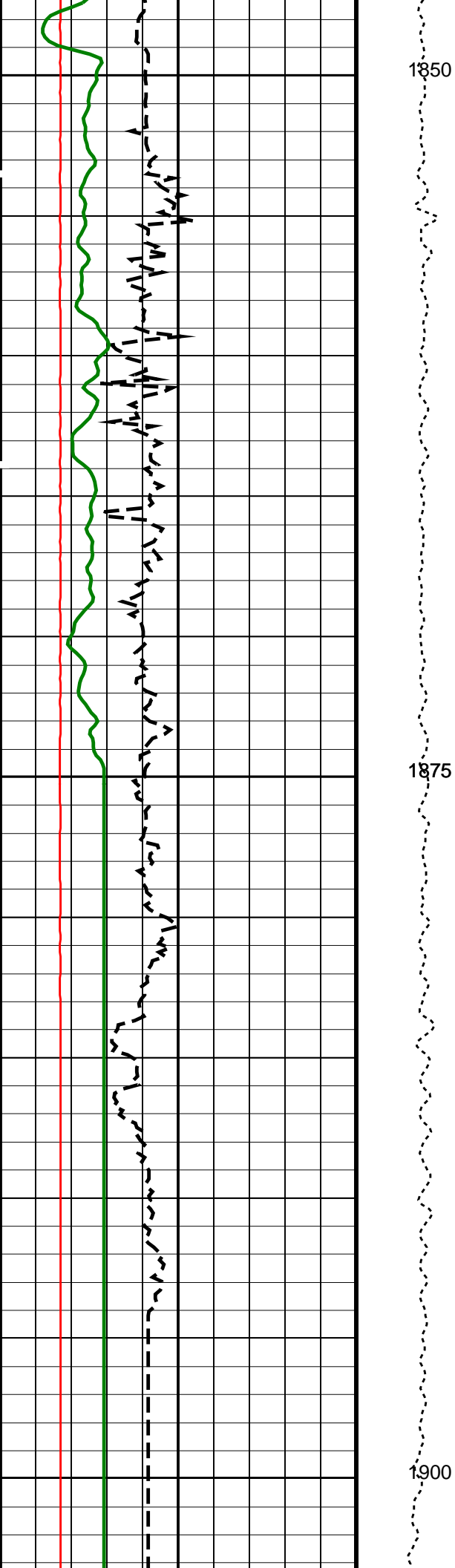


1750

1775







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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
<b>HRLT-B: High Resolution Laterolog Array - B</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
PROGINV	Inversion Selection	ON
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO
PROCMFO	Mechanical Standoff Fin Size	0 IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute
PROCSPO	Sonde Position	Eccentered
SHT	Surface Hole Temperature	20 DEGC
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>		
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	-0.010419
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	0.954059
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967493
<b>System and Miscellaneous</b>		
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	NORMAL
TD	Total Depth	2292 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		

#### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_021LUP	PRODUCER	25-Aug-2021 14:05	1903.9 M	1675.6 M
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#### Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022PUP	FN:26	PRODUCER	25-Aug-2021 14:10	
RTB	MSS_LDEO_HRLA_LDL_022PUP	FN:27	PRODUCER	25-Aug-2021 14:10	

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1568A

#### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_021LUP	PRODUCER	25-Aug-2021 14:05	1903.9 M	1675.6 M
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#### Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022PUP	FN:26	PRODUCER	25-Aug-2021 14:10	1903.9 M	1675.6 M
RTB	MSS_LDEO_HRLA_LDL_022PUP	FN:27	PRODUCER	25-Aug-2021 14:10	1903.9 M	1675.6 M

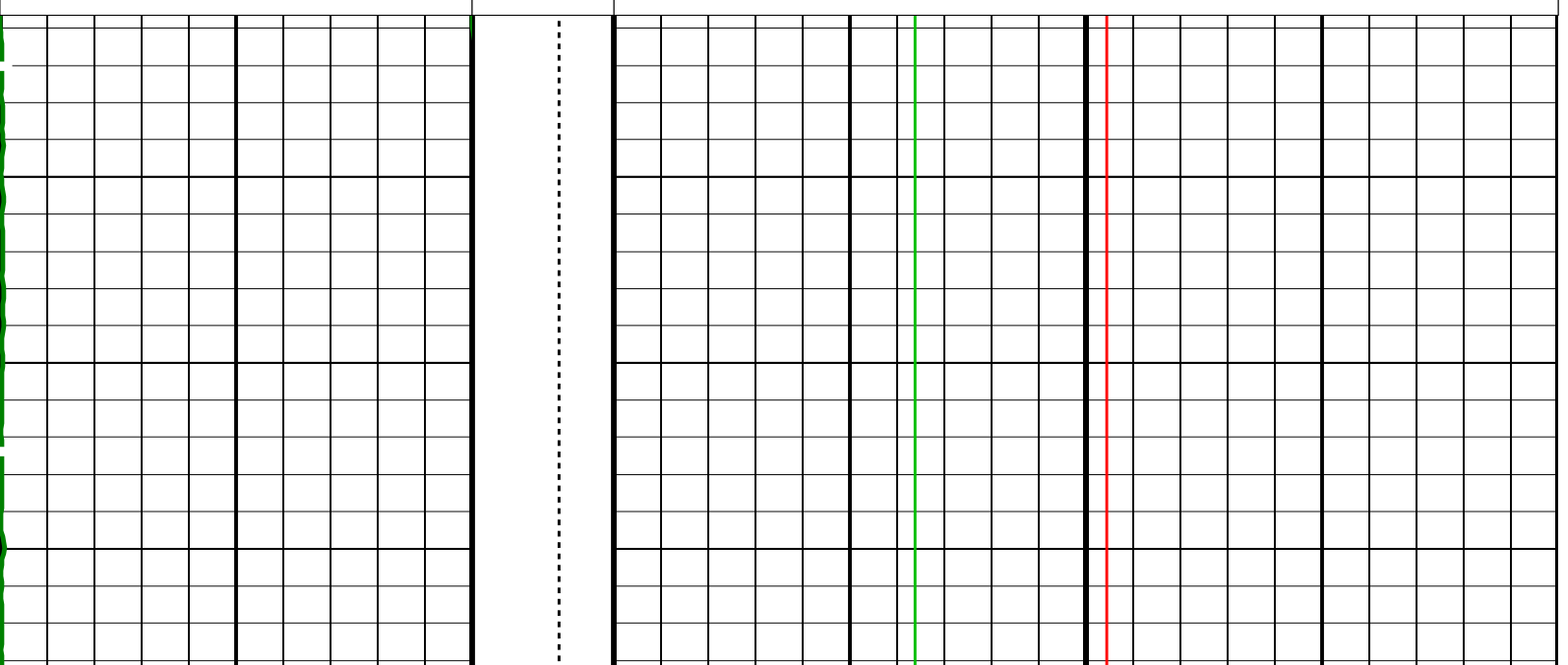
### OP System Version: 19C0-187

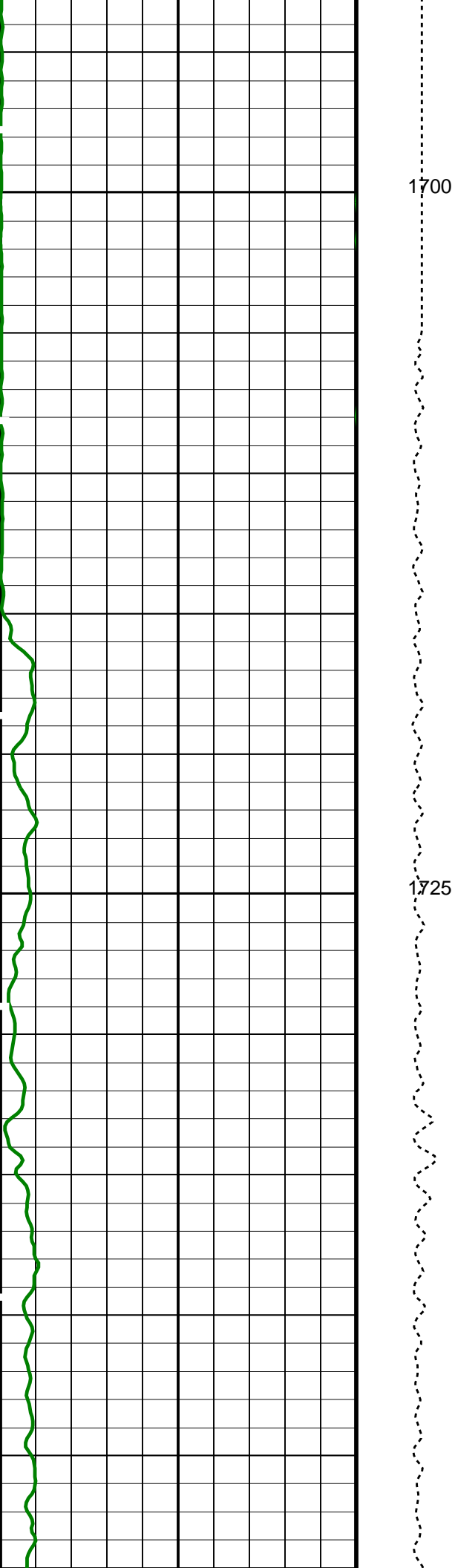
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HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

#### PIP SUMMARY

Time Mark Every 60 S

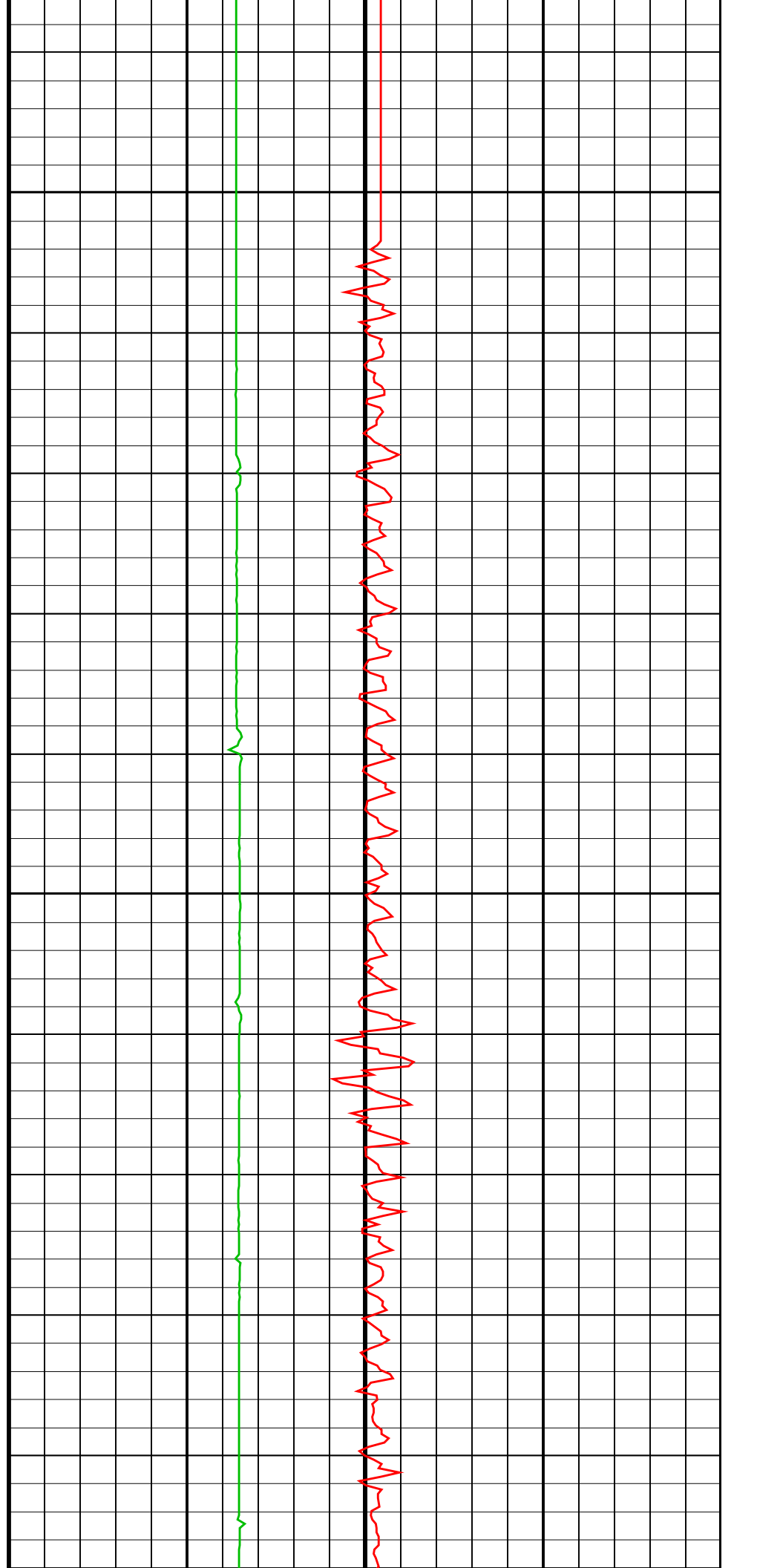
		Dual-Coil Susceptibility (MSSL SUS_LDEO)	
		-10000	90000
		(PPM)	
HNGS Spectroscopy Gamma Ray (HSGR)	Tension (TENS) (LBF)	Axial Acceleration (MSSZACC_LDEO)	
0 (GAPI) 150	0 5000	0	20
		(M/S <sup>2</sup> )	

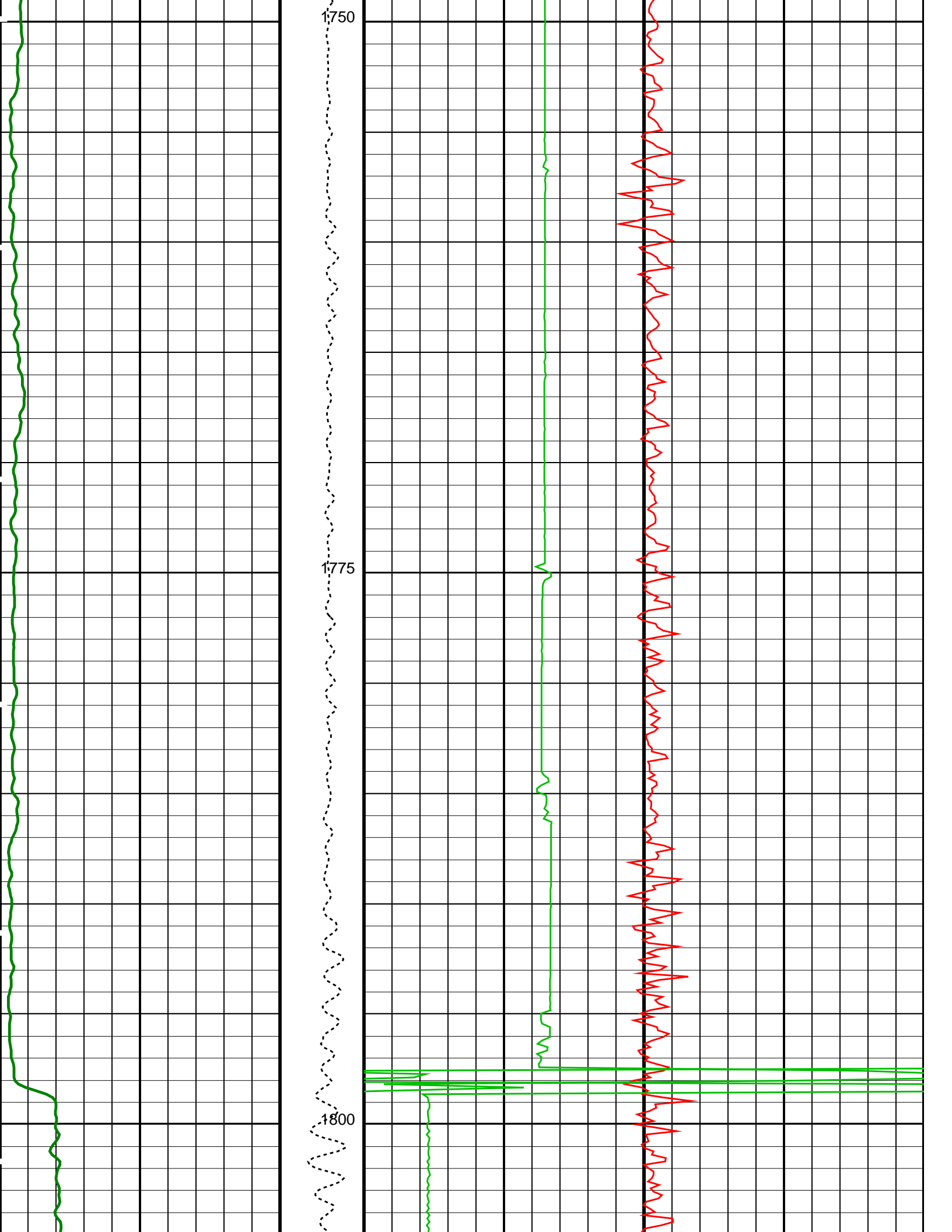


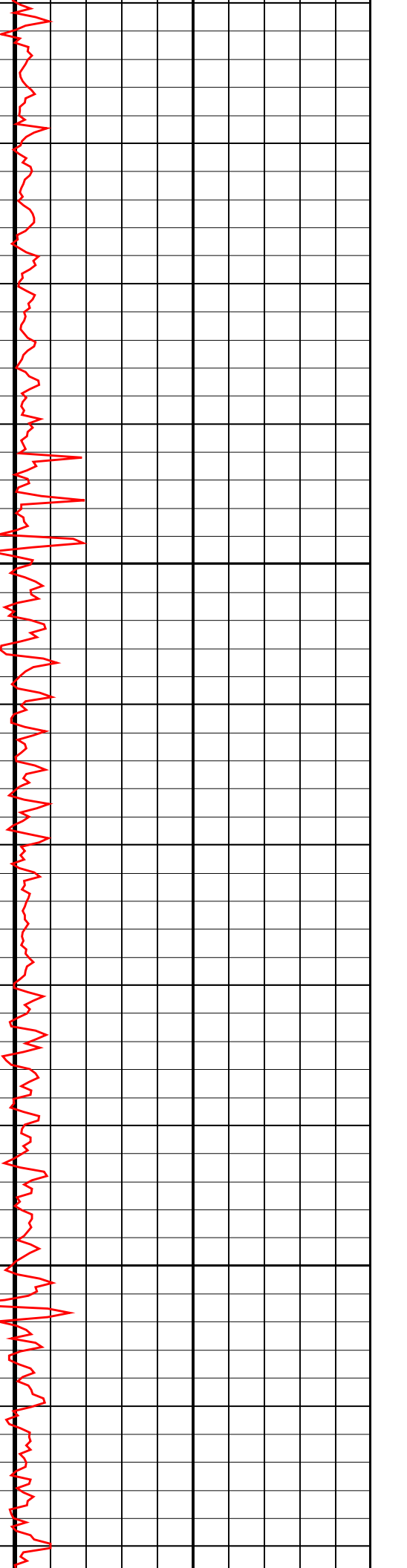
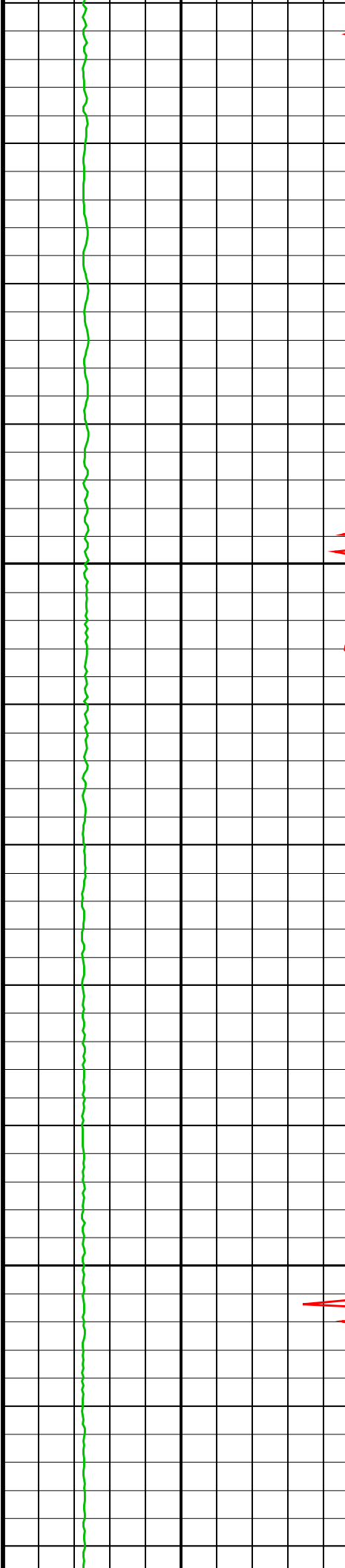
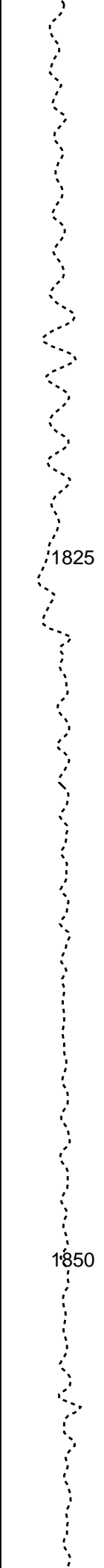
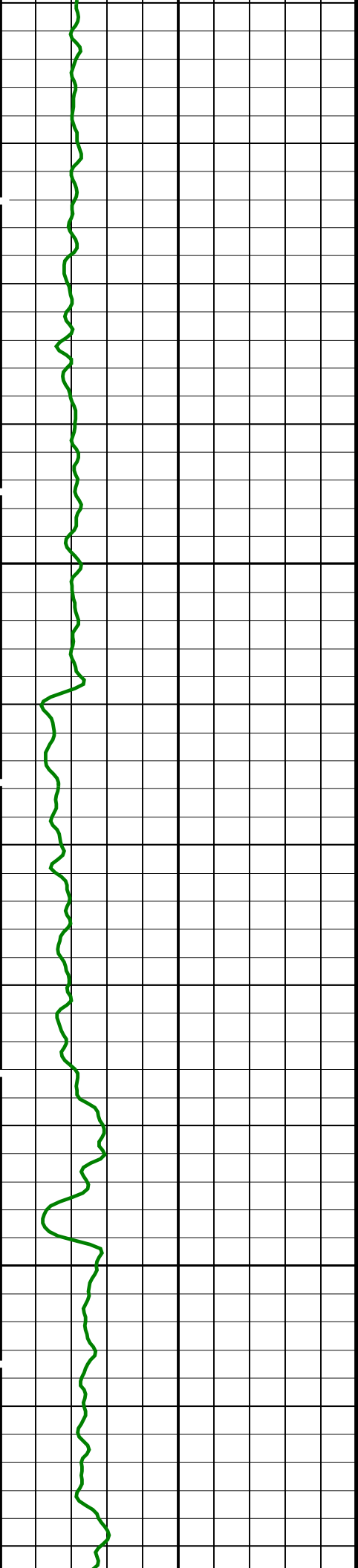


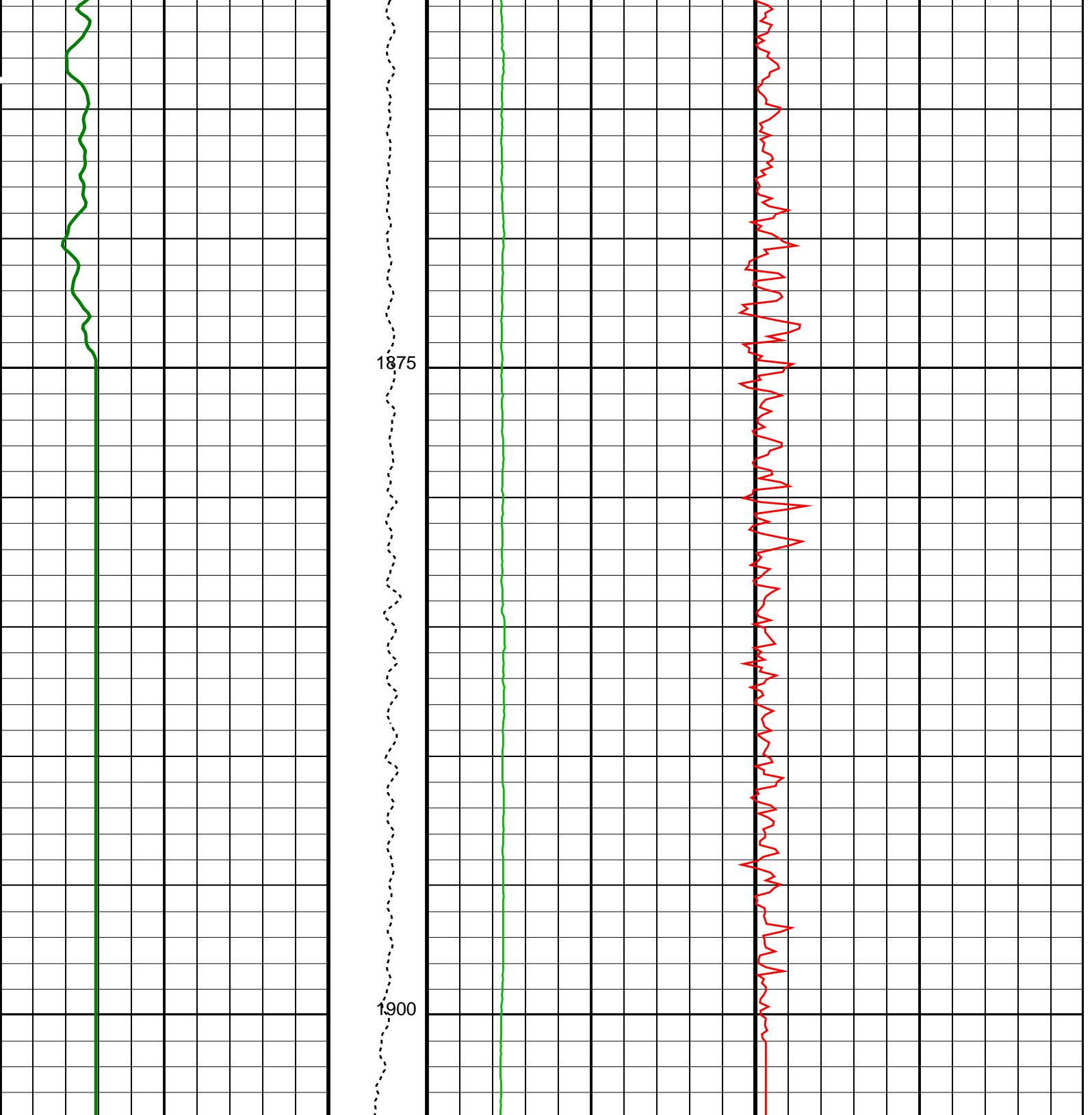
1700

1725









<b>HNGS Spectroscopy Gamma Ray (HSGR)</b> (GAPI)	<b>Tension (TENS)</b> (LBF)	<b>Axial Acceleration (MSSZACC_LDEO)</b> (M/S2)
0      150	0      5000	0      20
		<b>Dual-Coil Susceptibility (MSSL SUS_LDEO)</b> (PPM)
		-10000      90000

**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

DLIS Name	Description	Value
HRLT-B	HRLT-B: High Resolution Laterolog Array - B	OPEN
DLIS	DLIS: Data Link Identification System	OPEN

BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.010419	
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	0.954059	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.967493	
<b>System and Miscellaneous</b>			
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	NORMAL	

Format: MSS\_Logging    Vertical Scale: 1:200    Graphics File Created: 25-Aug-2021 14:10

### 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_021LUP	PRODUCER	25-Aug-2021 14:05	1903.9 M	1675.6 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_022PUP	FN:26	PRODUCER	25-Aug-2021 14:10
RTB	MSS_LDEO_HRLA_LDL_022PUP	FN:27	PRODUCER	25-Aug-2021 14:10



**First Pass**

MAXIS Field Log

Company: International Ocean Discovery Program    Well: Expedition 396, Site U1568A

### Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M

### OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187

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

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

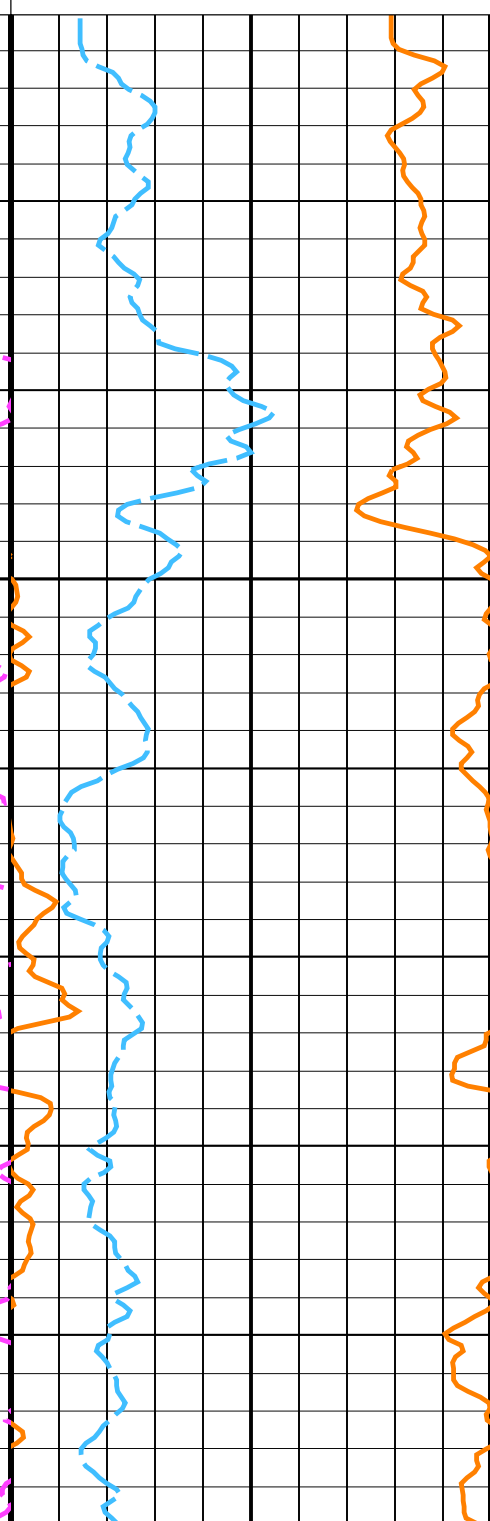
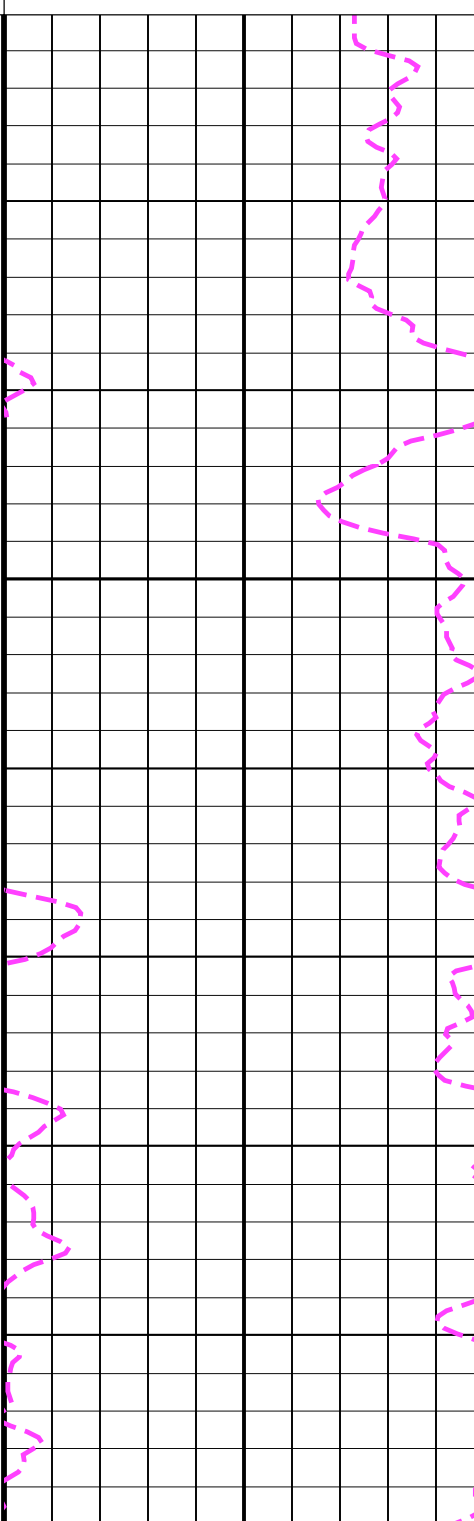
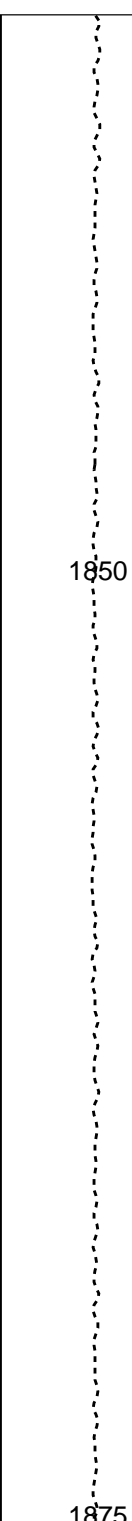
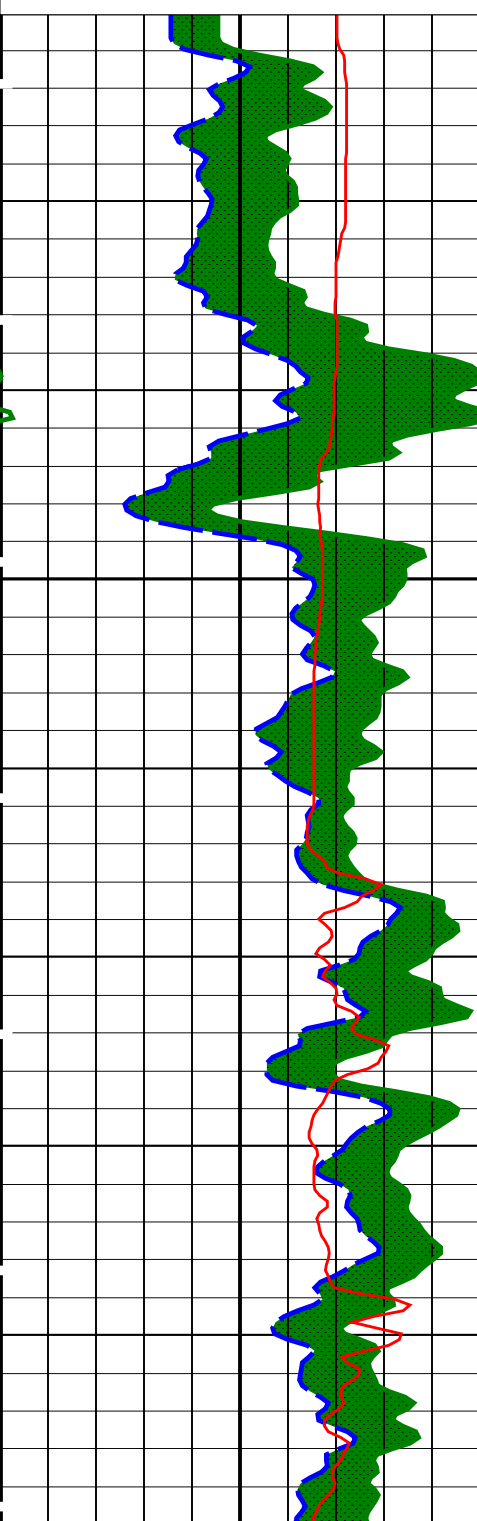
HNGS Uranium (HURA)  
(PPM) -5 5

HLDS Caliper (LCAL)  
(IN) 0 20

Tension (TENS)  
(LBF) 10000 0

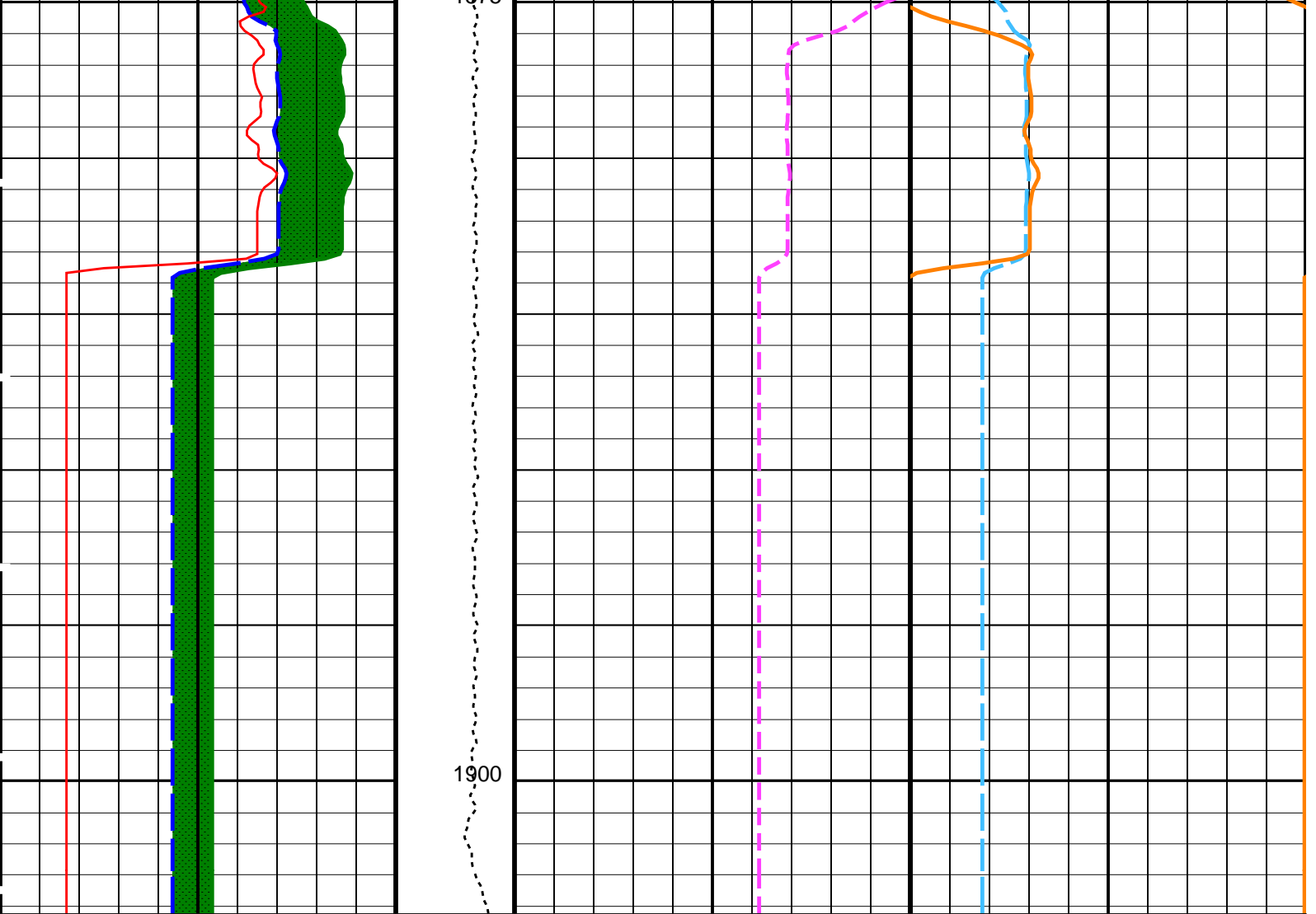
HNGS Thorium (HTHO)  
(PPM) -5 5

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



1850

1875



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



COSE	Generalized Caliper Selection	LOCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0029256	
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	0.945323	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 25-Aug-2021 13:13

### 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_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13

Company: International Ocean Discovery Program    Well: Expedition 396, Site U1568A

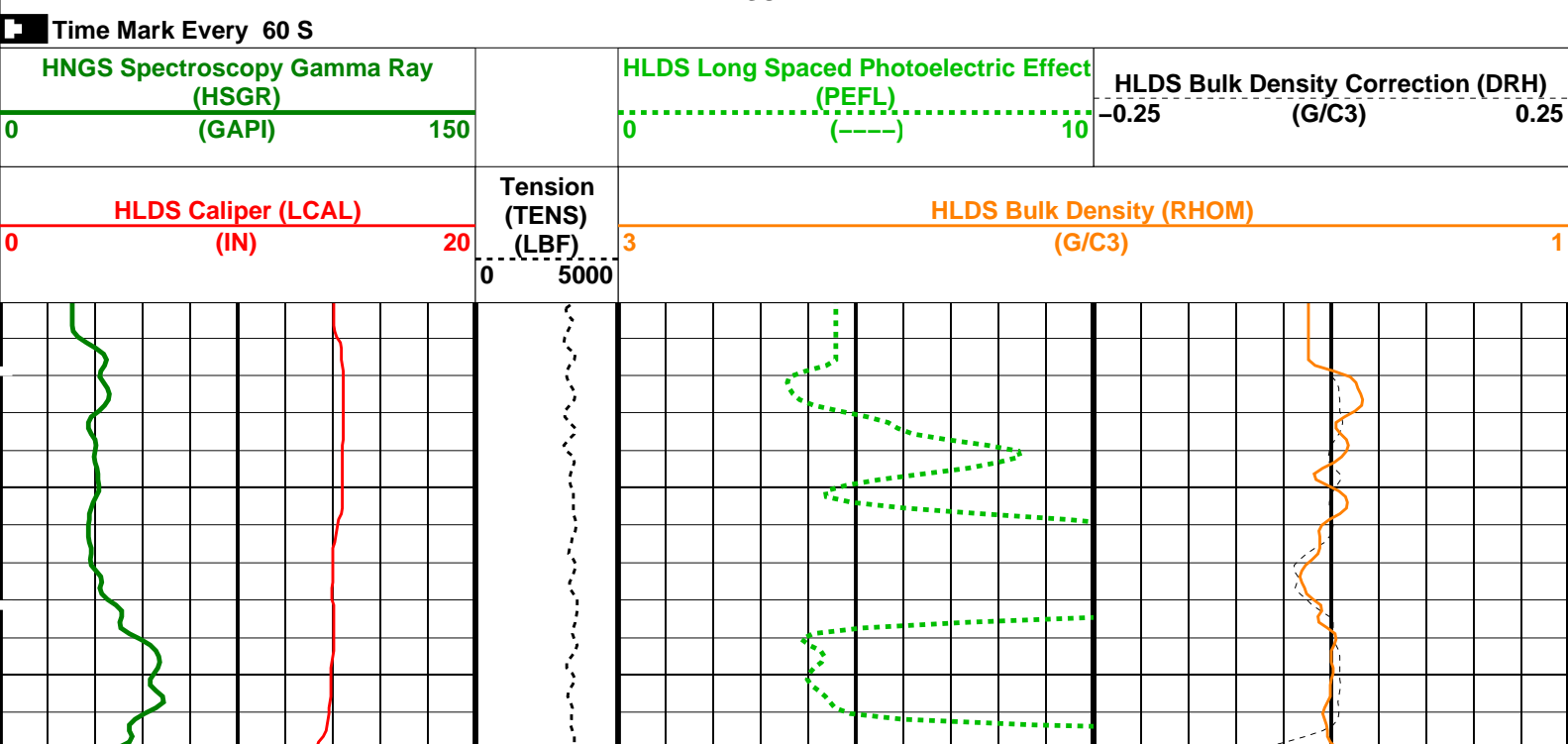
### Output DLIS Files

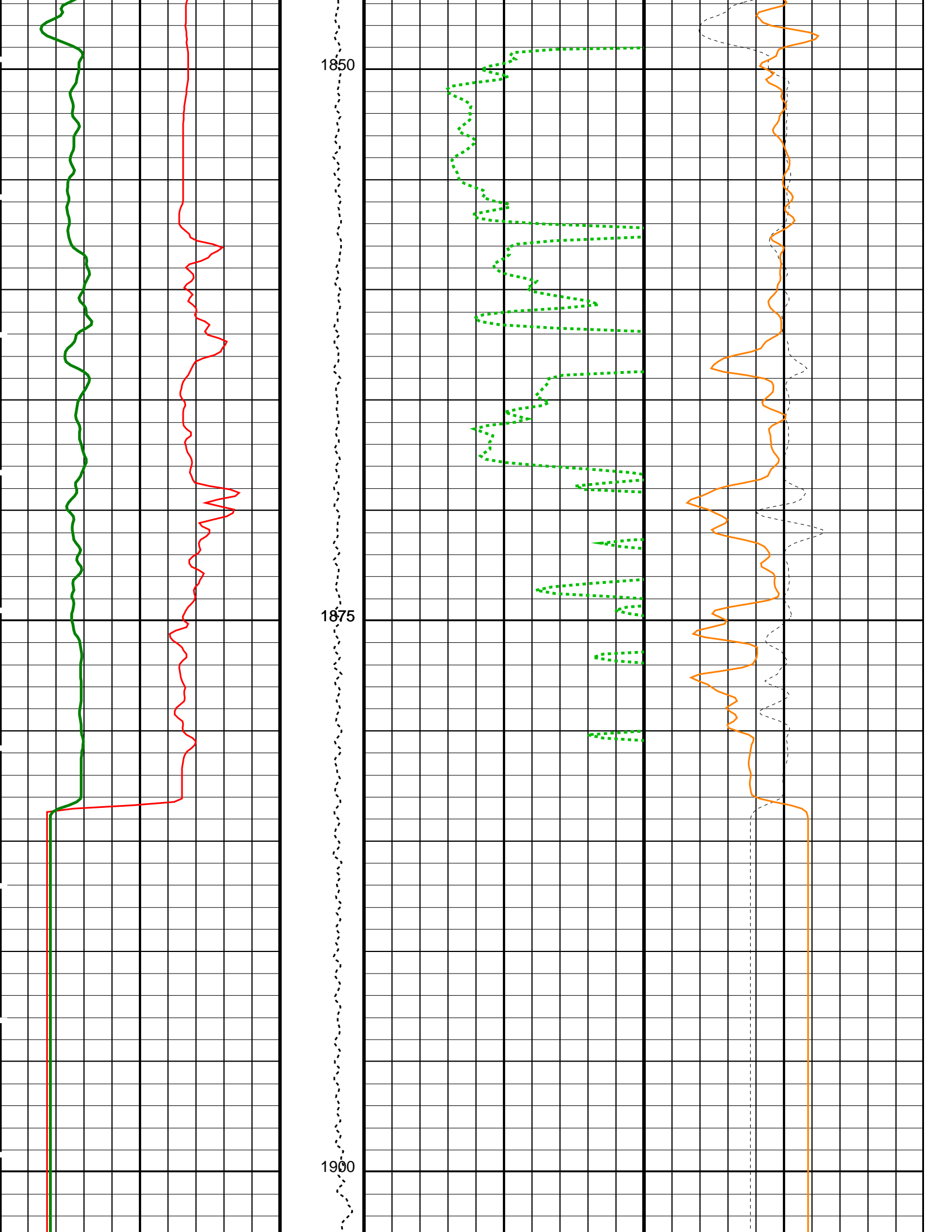
DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M

### 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





<b>HLDS Caliper (LCAL)</b>		Tension (TENS) (LBF)	<b>HLDS Bulk Density (RHOM)</b>		
0	(IN) 20		3	(G/C3)	1
HNGS Spectroscopy Gamma Ray (HSGR)		0	5000	HLDS Long Spaced Photoelectric Effect (PEFL)	
0	(GAPI) 150	0	(----) 10	HLDS Bulk Density Correction (DRH)	
				-0.25	(G/C3) 0.25

**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	-0.0029256
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	0.945323
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537
	System and Miscellaneous	
BS	Bit Size	11.438 IN
DFD	Drilling Fluid Density	1.26 G/C3

Format: HLDSDensityPE    Vertical Scale: 1:200    Graphics File Created: 25-Aug-2021 13:13

**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_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13

Company: International Ocean Discovery Program    Well: Expedition 396, Site U1568A

**Output DLIS Files**

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M

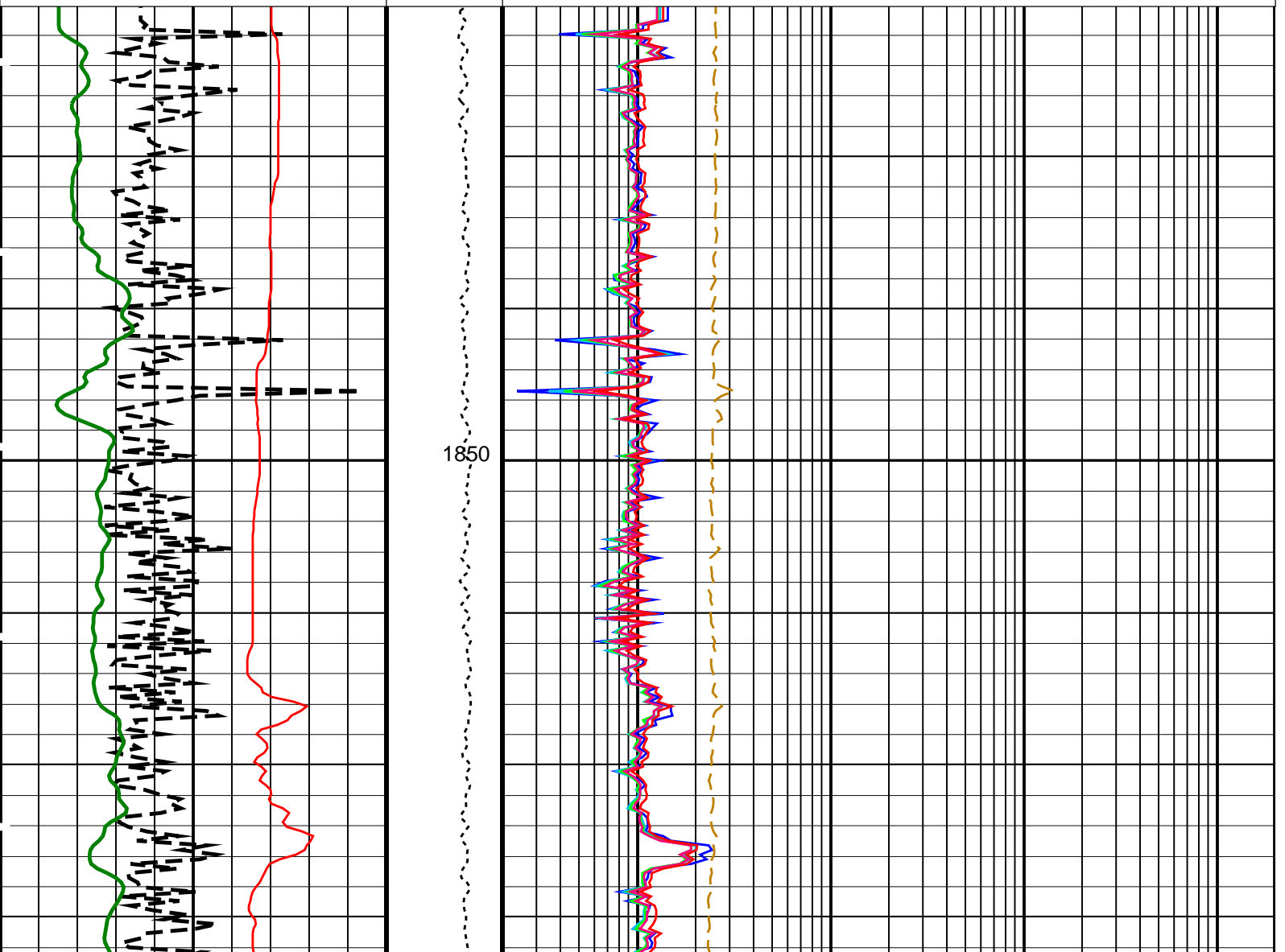
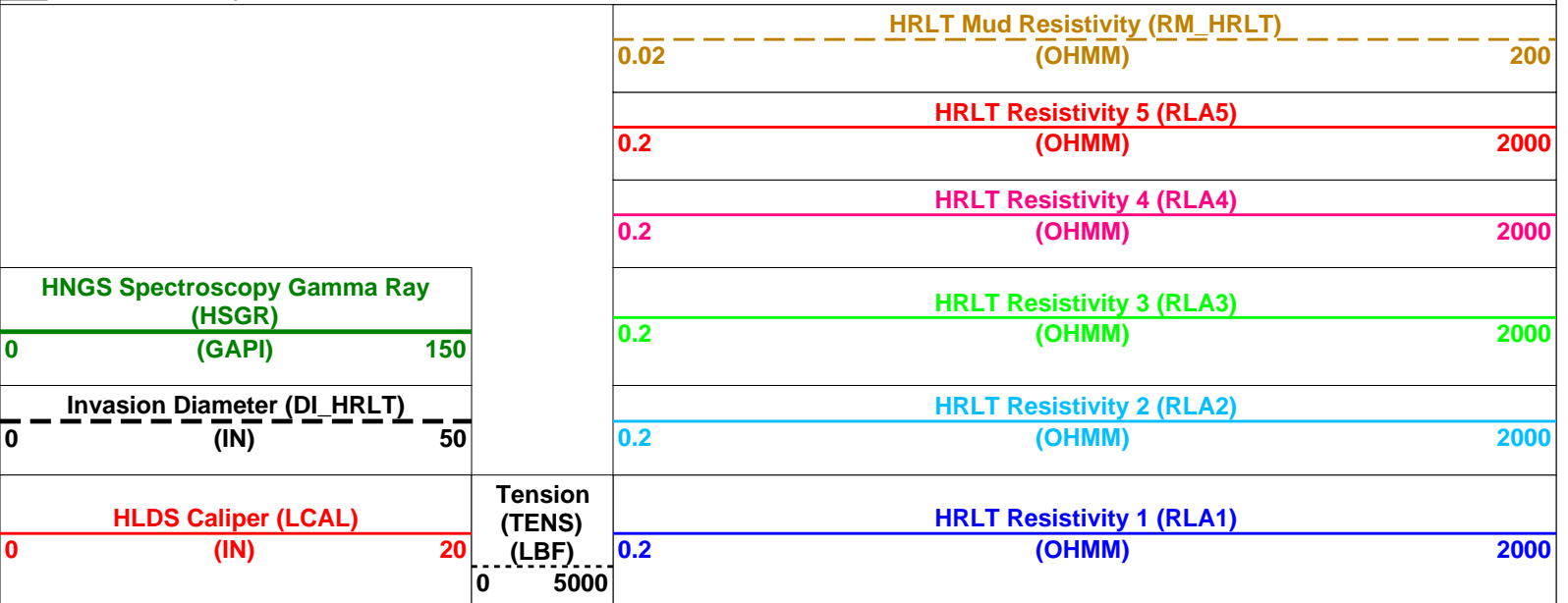
# OP System Version: 19C0-187

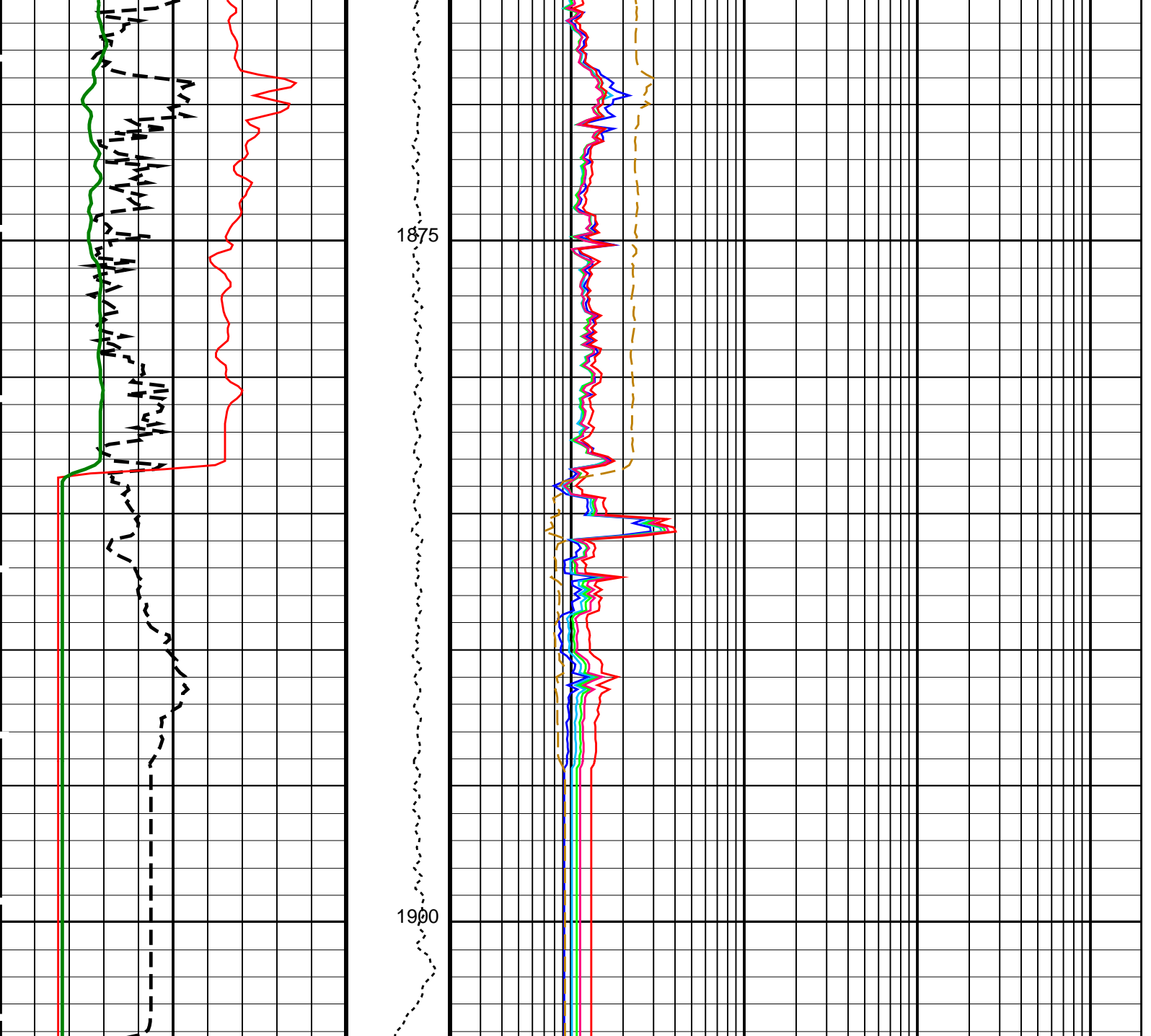
MSS\_LDEO-A 19C0-187  
 HLDS 19C0-187  
 HNGC-B 19C0-187  
 DTC-H 19C0-187

HRLT-B 19C0-187  
 LDSC-B 19C0-187  
 HNGS-BA 19C0-187

## PIP SUMMARY

Time Mark Every 60 S





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

PIP SUMMARY

## Parameters

DLIS Name	Description	Value	
<b>HRLT-B: High Resolution Laterolog Array - B</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
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.0029256	
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	0.945323	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537	
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
TD	Total Depth	2292	M

Format: HRLT Vertical Scale: 1:200

Graphics File Created: 25-Aug-2021 13:13

## 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_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13

Company: International Ocean Discovery Program

Well: Expedition 396, Site U1568A

## Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13	1904.2 M	1835.0 M

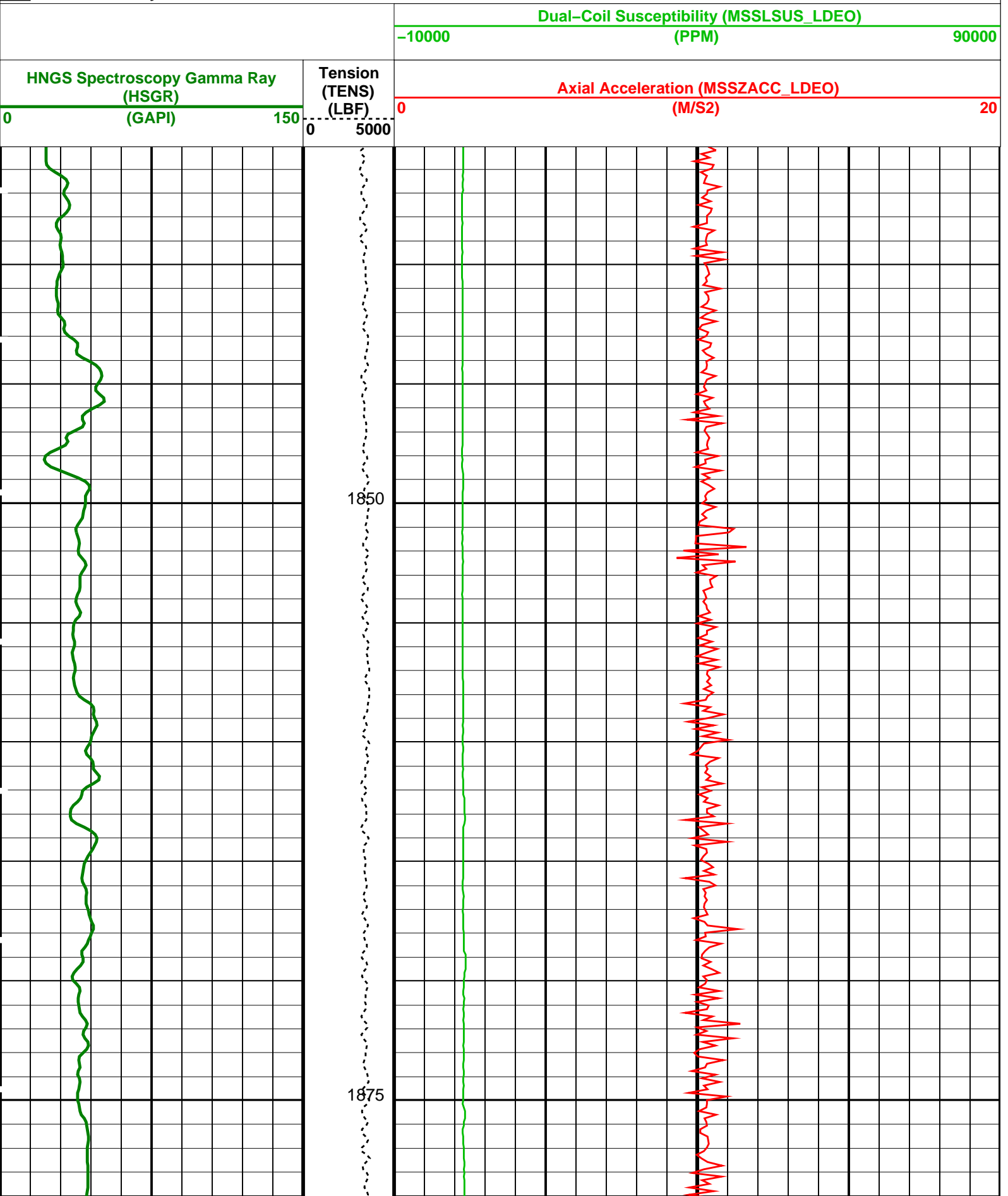
## OP System Version: 19C0-187

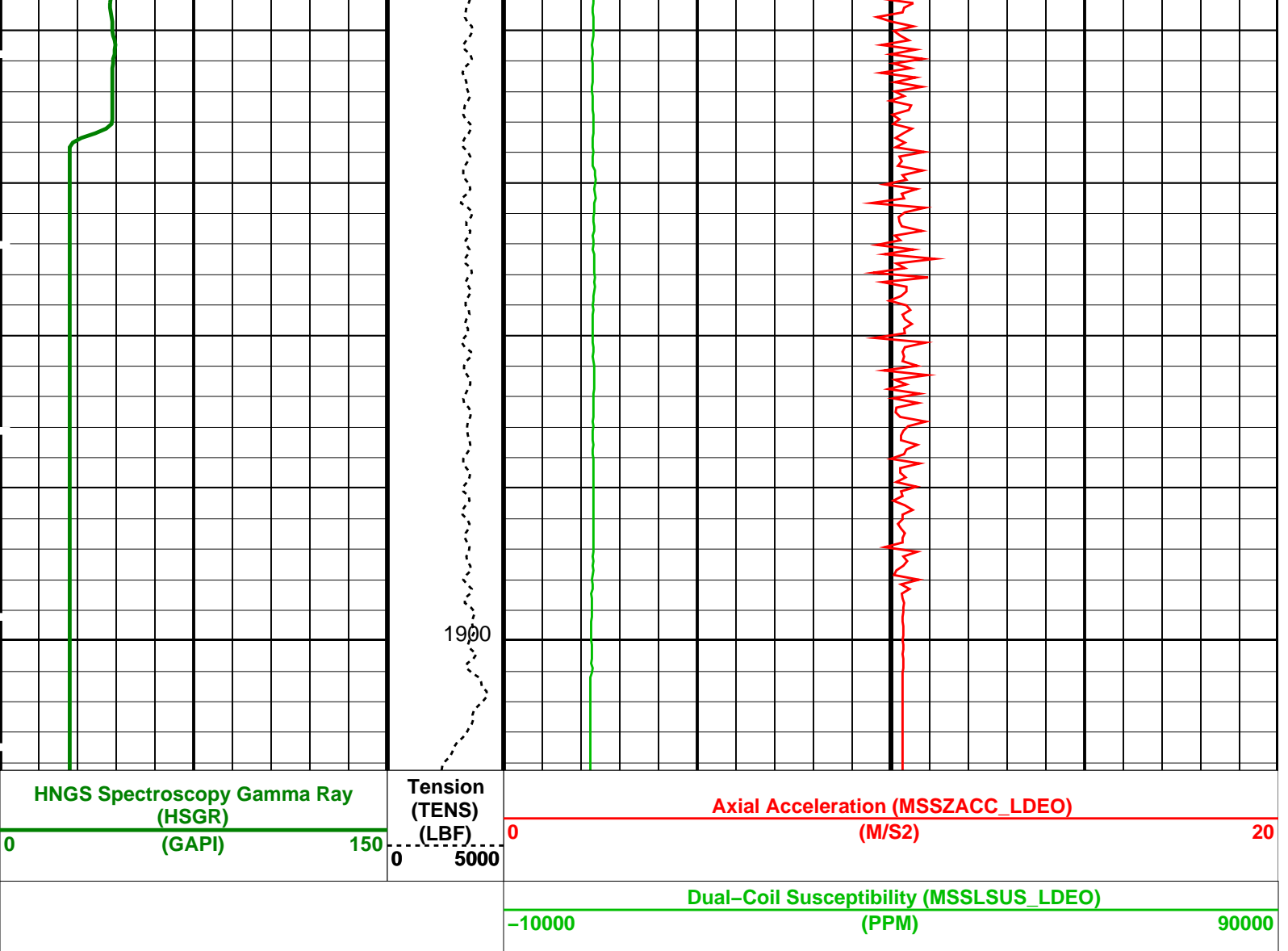
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HLDS 19C0-187  
HNGC-B 19C0-187  
DTC-H 19C0-187

HRLT-B 19C0-187  
LDSC-B 19C0-187  
HNGS-BA 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	-0.0029256	
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	0.945323	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537	
System and Miscellaneous			
RS	Bit Size	11.438	IN



## 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_016LUP	FN:18	PRODUCER	25-Aug-2021 13:13
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	25-Aug-2021 13:13



# Second Pass

MAXIS Field Log

Company: International Ocean Discovery Program Well: Expedition 396, Site U1568A

### Output DLIS Files

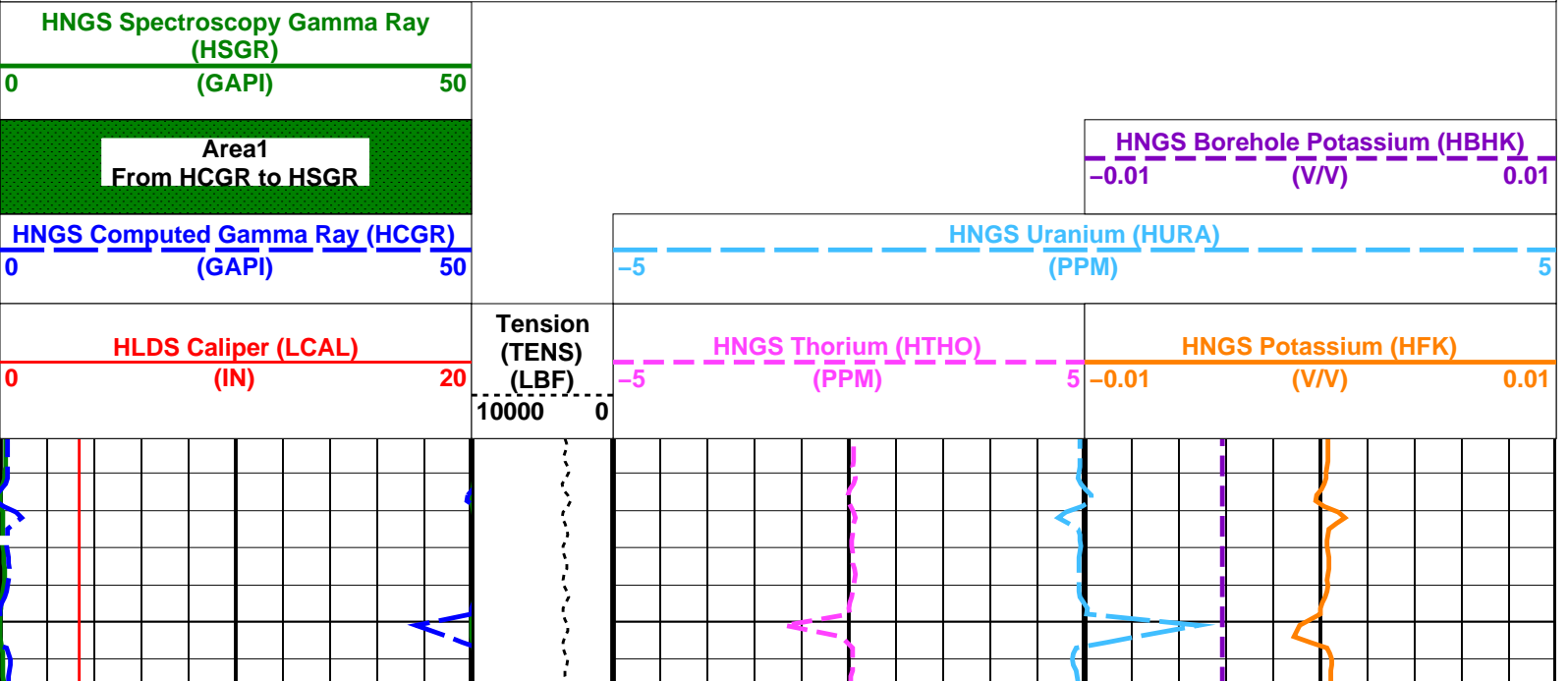
DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M

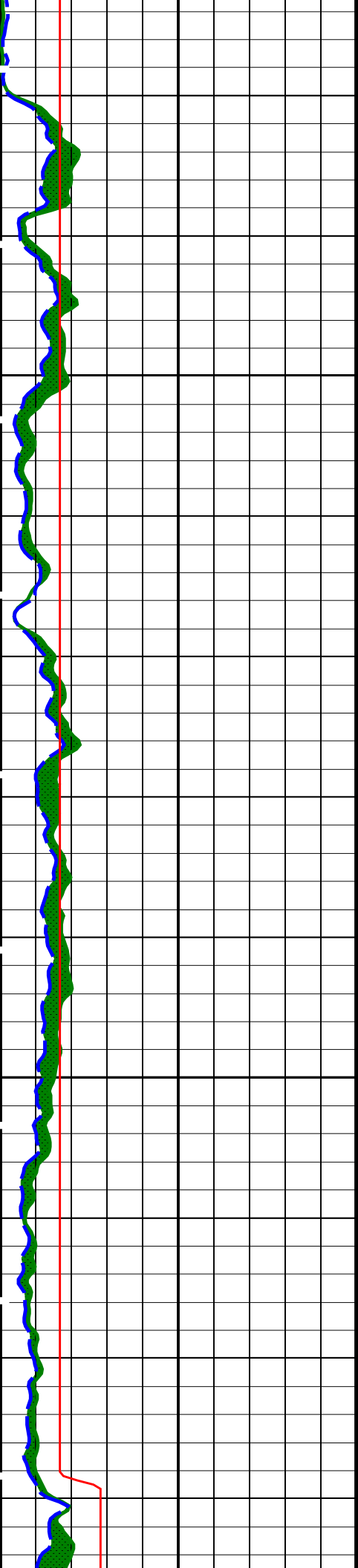
## OP System Version: 19C0-187

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

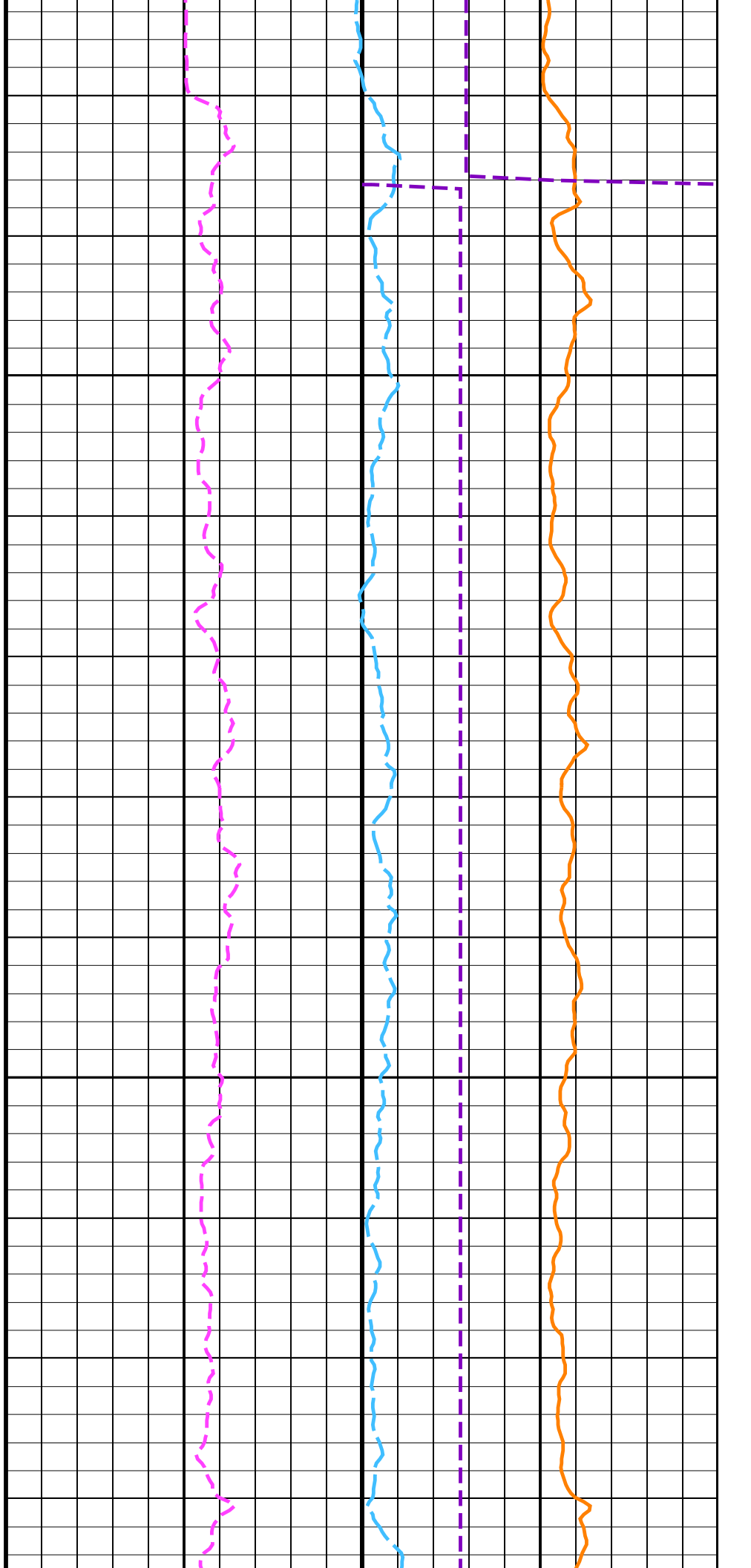
Time Mark Every 60 S

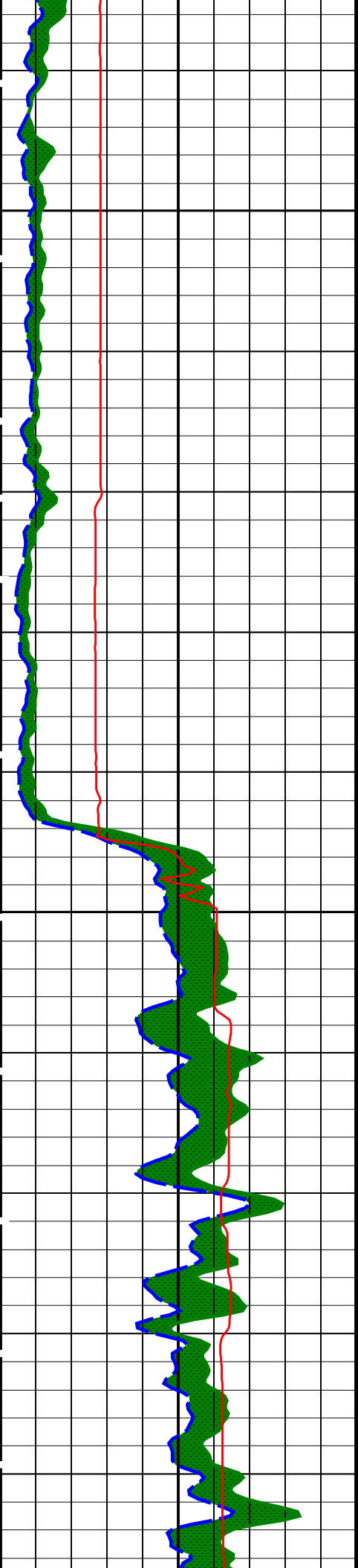




1725

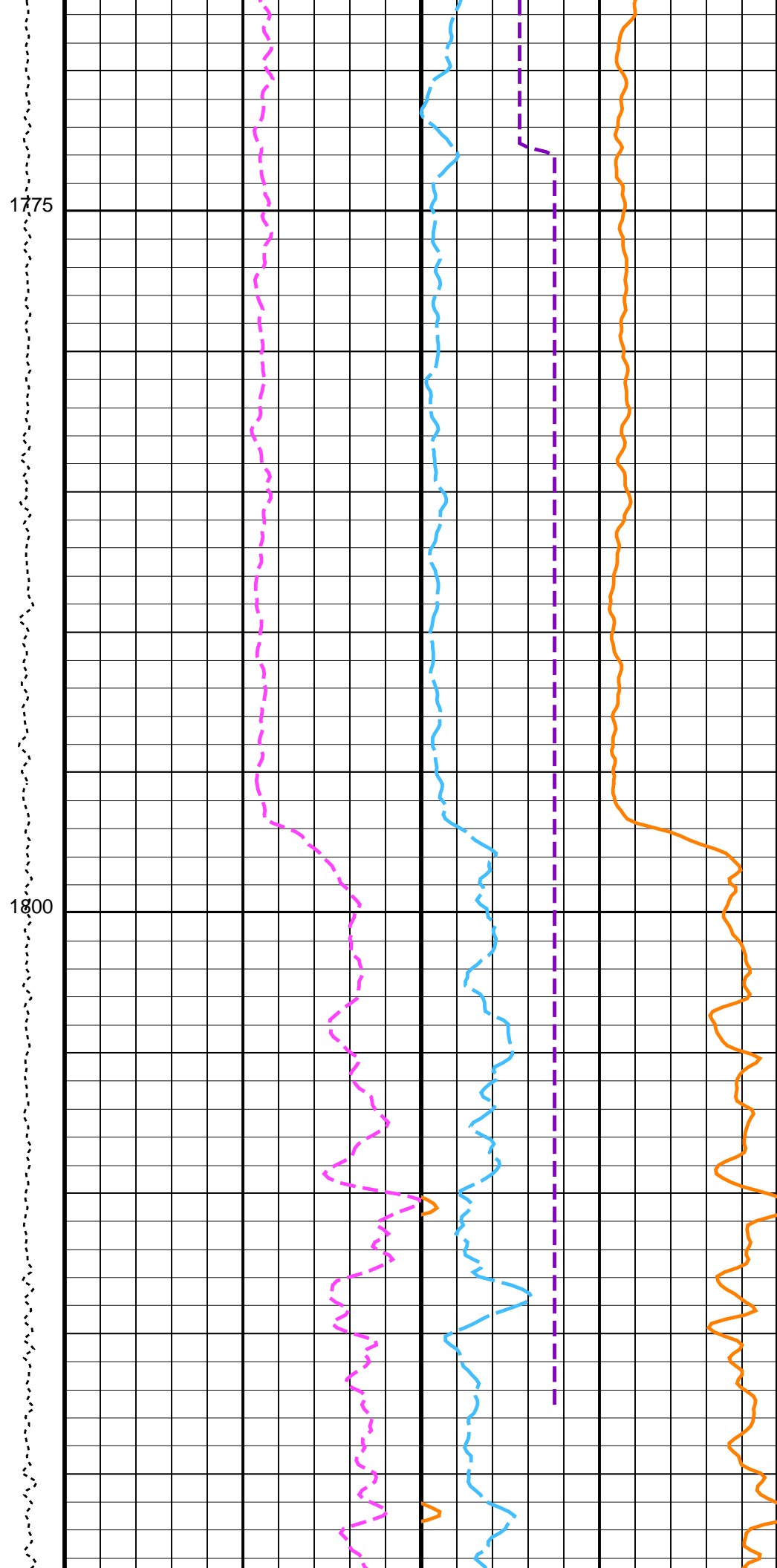
1750

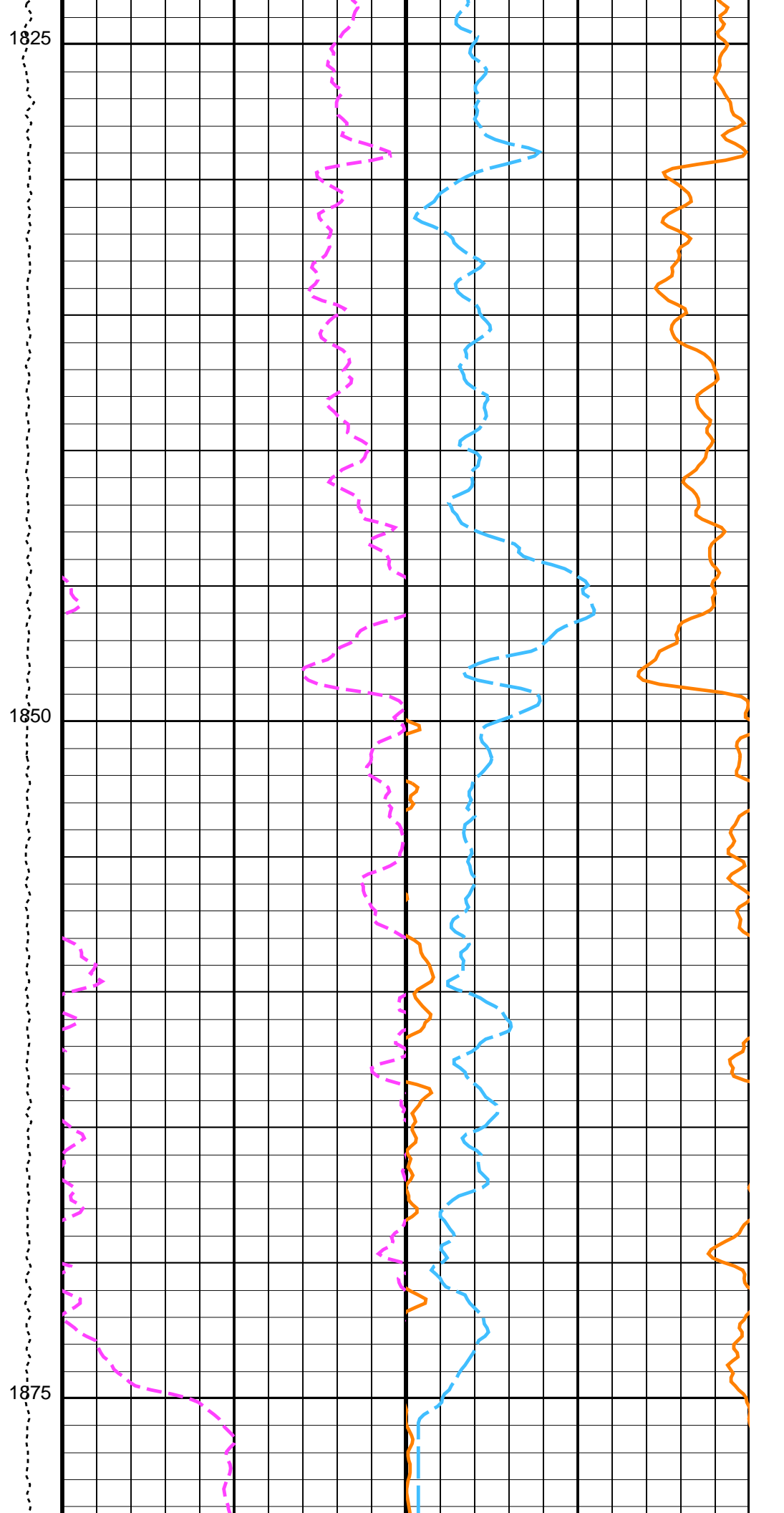
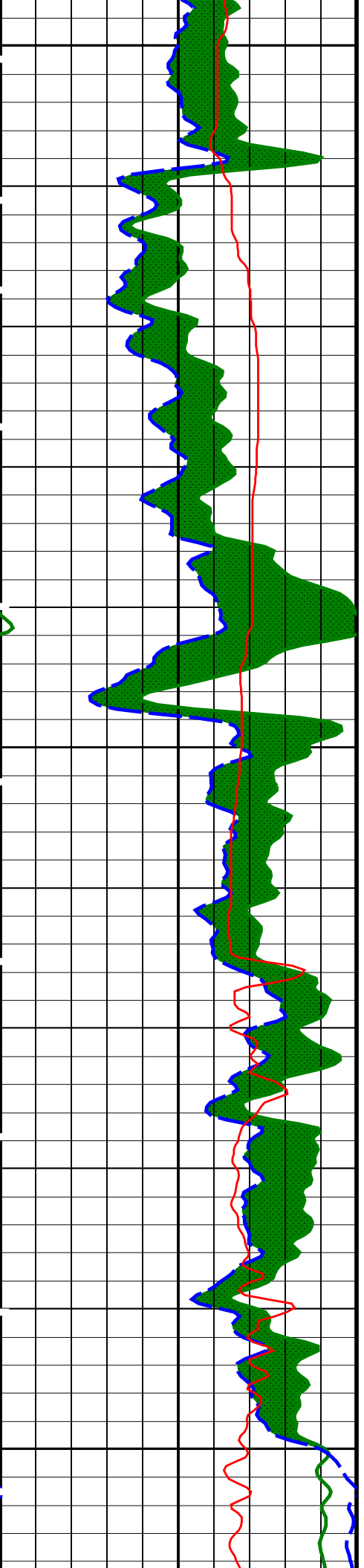


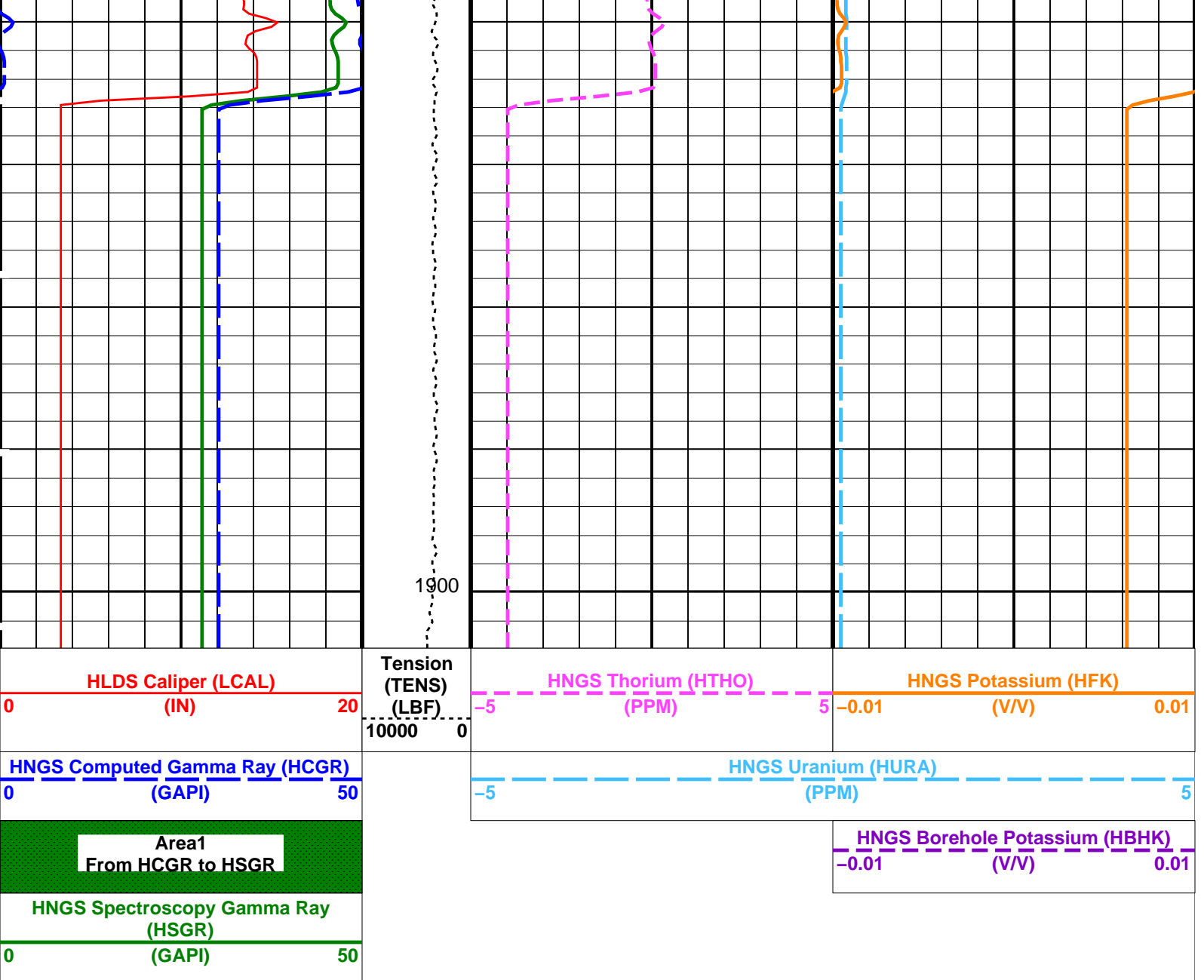


1775

1800







**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

DLIS Name	Description	Value
<b>HRLT-B: High Resolution Laterolog Array - B</b>		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>		
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	-0.0029256
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

ECCE	HNGS Standard Gamma-Ray Correction Flag	1.00	
TPOS	Tool Position		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.945323	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 25-Aug-2021 13:32

<b>OP System Version: 19C0-187</b>			
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		

<b>Output DLIS Files</b>					
DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32	
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32	

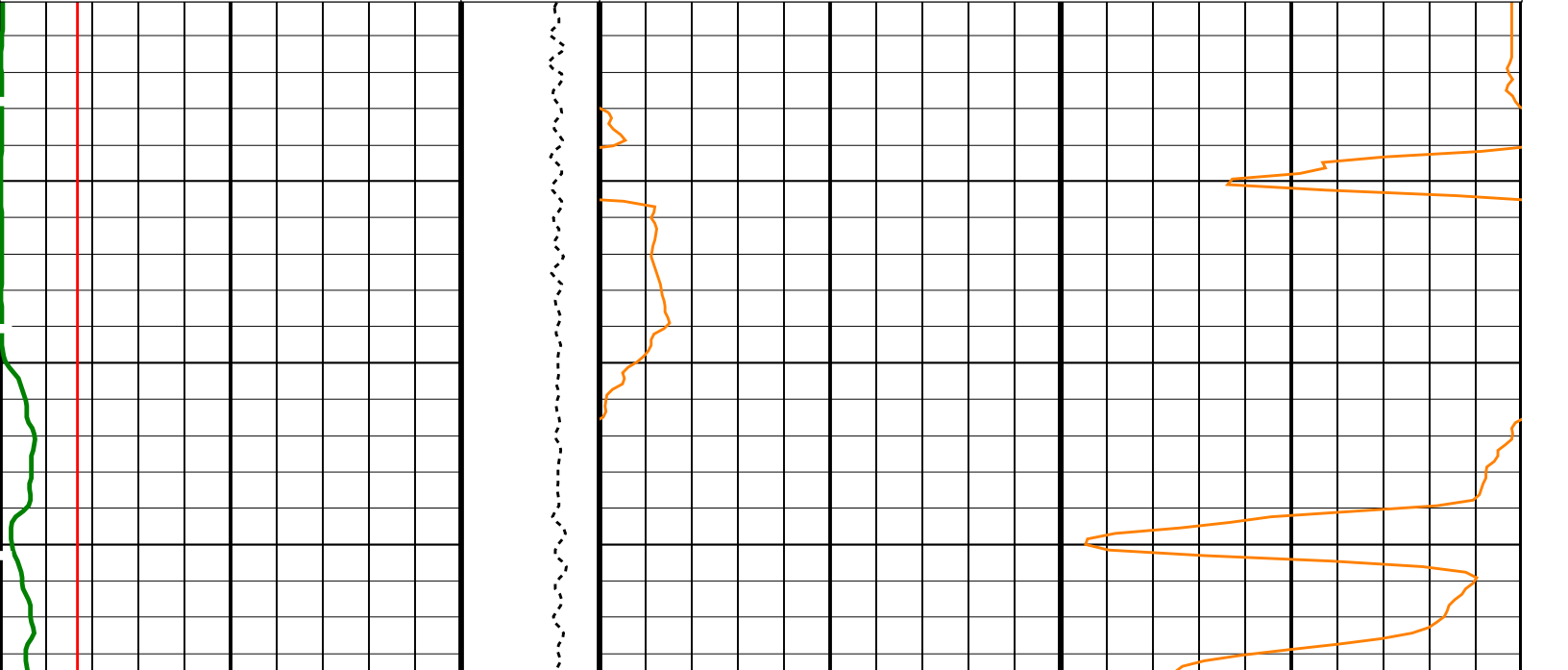
Company: International Ocean Discovery Program    Well: Expedition 396, Site U1568A

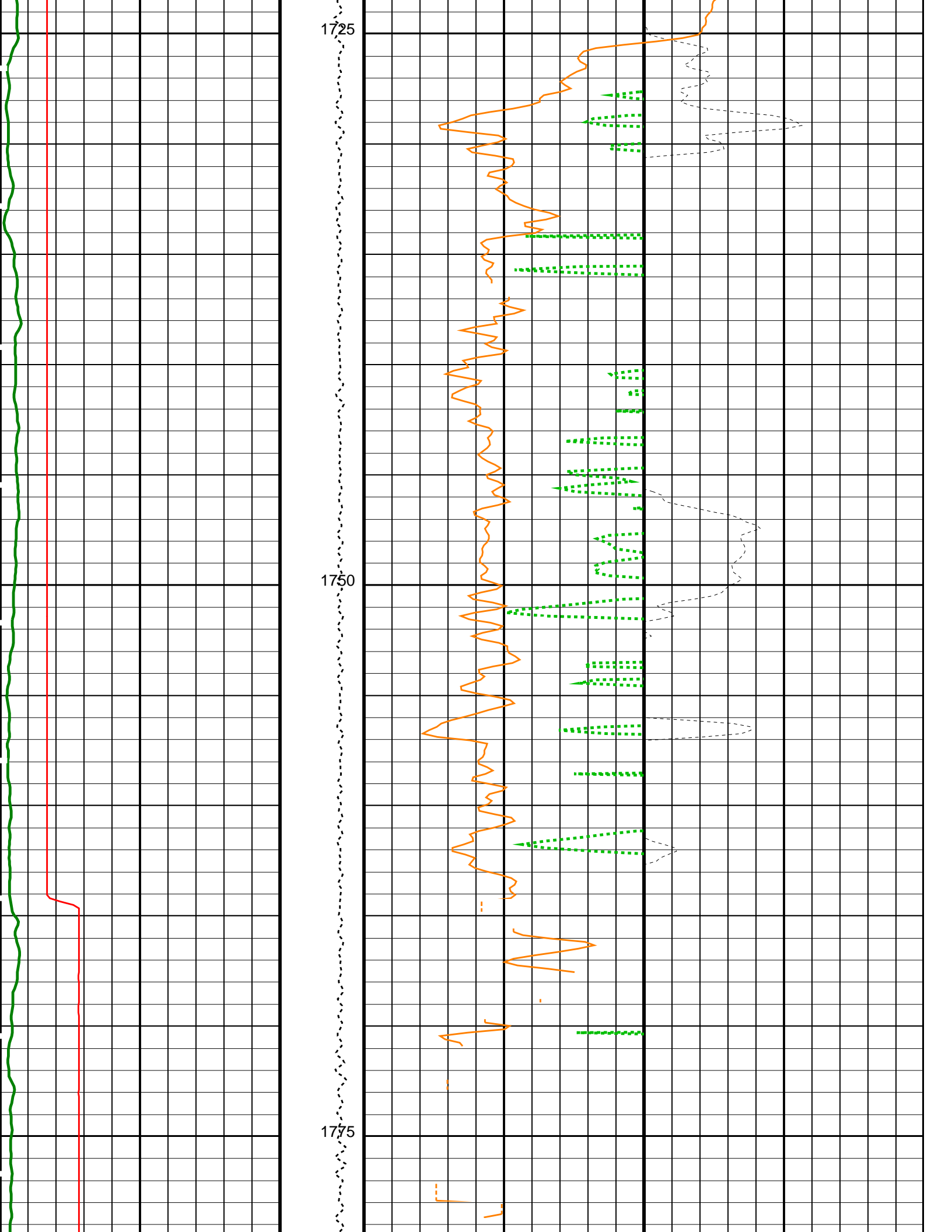
<b>Output DLIS Files</b>						
DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M

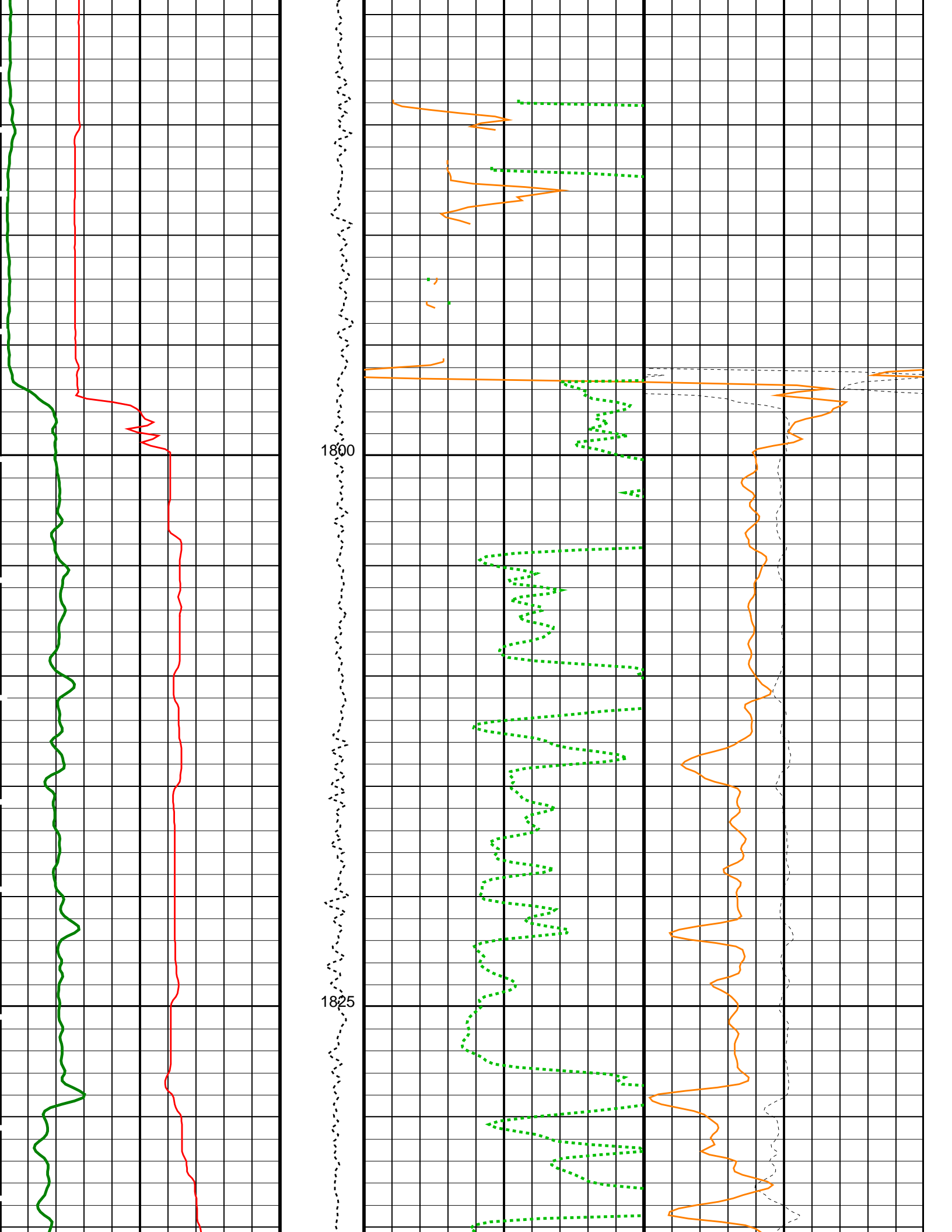
<b>OP System Version: 19C0-187</b>			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

**PIP SUMMARY**

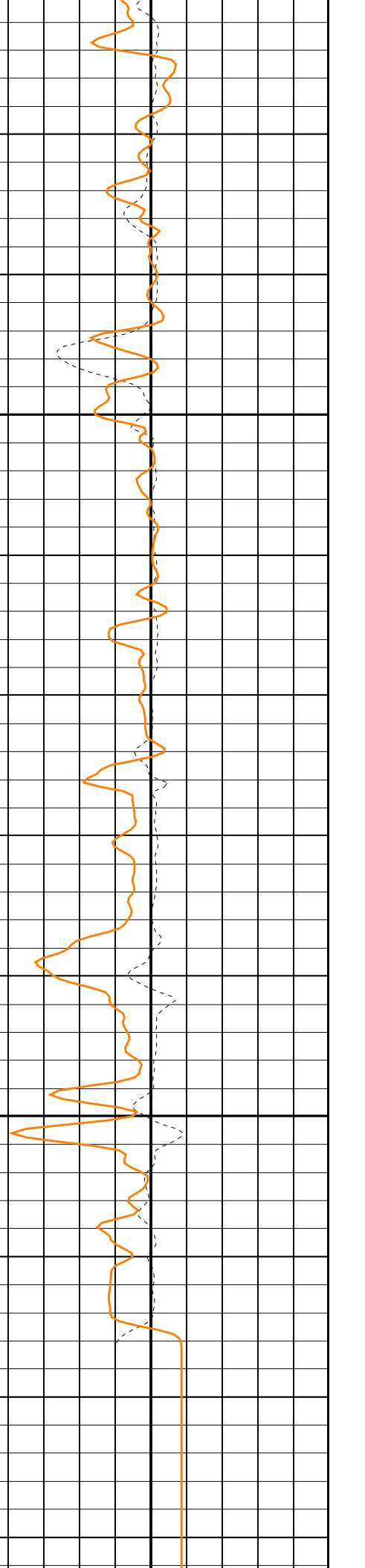
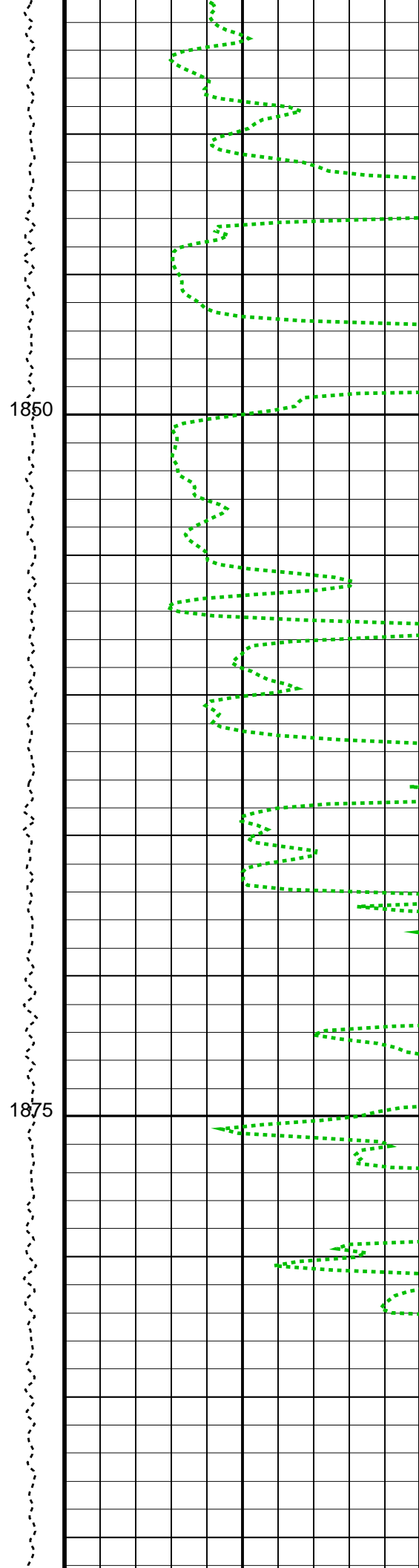
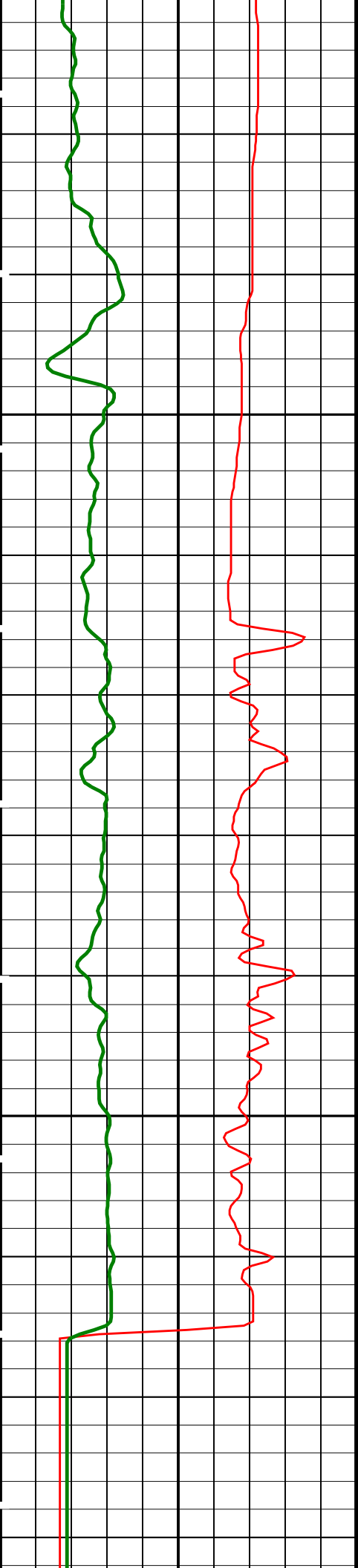
<input type="checkbox"/> Time Mark Every 60 S			
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		<b>HLDS Long Spaced Photoelectric Effect (PEFL)</b>	<b>HLDS Bulk Density Correction (DRH)</b>
(GAPI)    0    150		(----)    0    10	(G/C3)    -0.25    0.25
<b>HLDS Caliper (LCAL)</b>	<b>Tension (TENS) (LBF)</b>	<b>HLDS Bulk Density (RHOM)</b>	
(IN)    0    20	0    5000	(G/C3)    3    1	





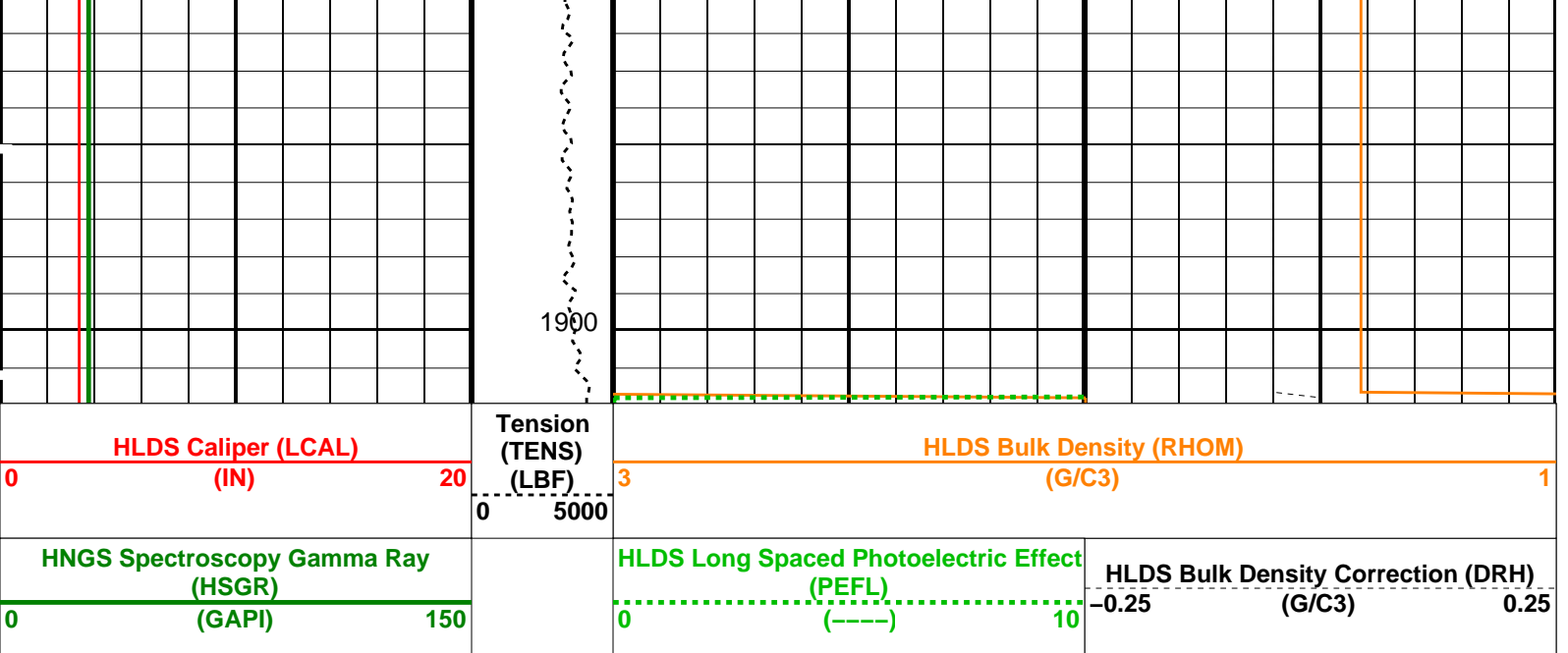






1850

1875



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	-0.0029256
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	0.945323
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537
	System and Miscellaneous	
BS	Bit Size	11.438 IN
DFD	Drilling Fluid Density	1.26 G/C3

Format: HLDSDensityPE

Vertical Scale: 1:200

Graphics File Created: 25-Aug-2021 13:32

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

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32

Company: International Ocean Discovery Program Well: Expedition 396, Site U1568A

Output DLIS Files

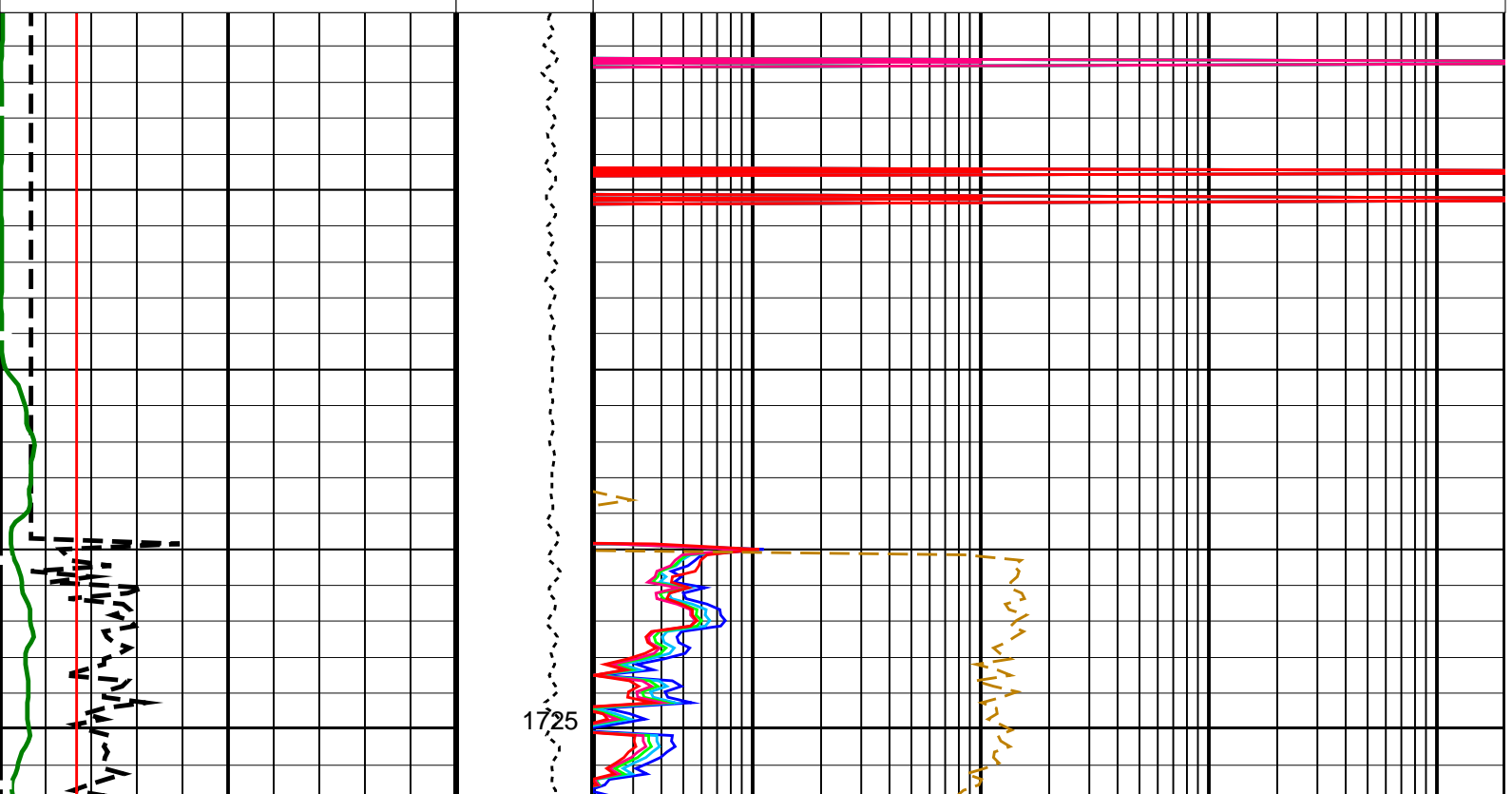
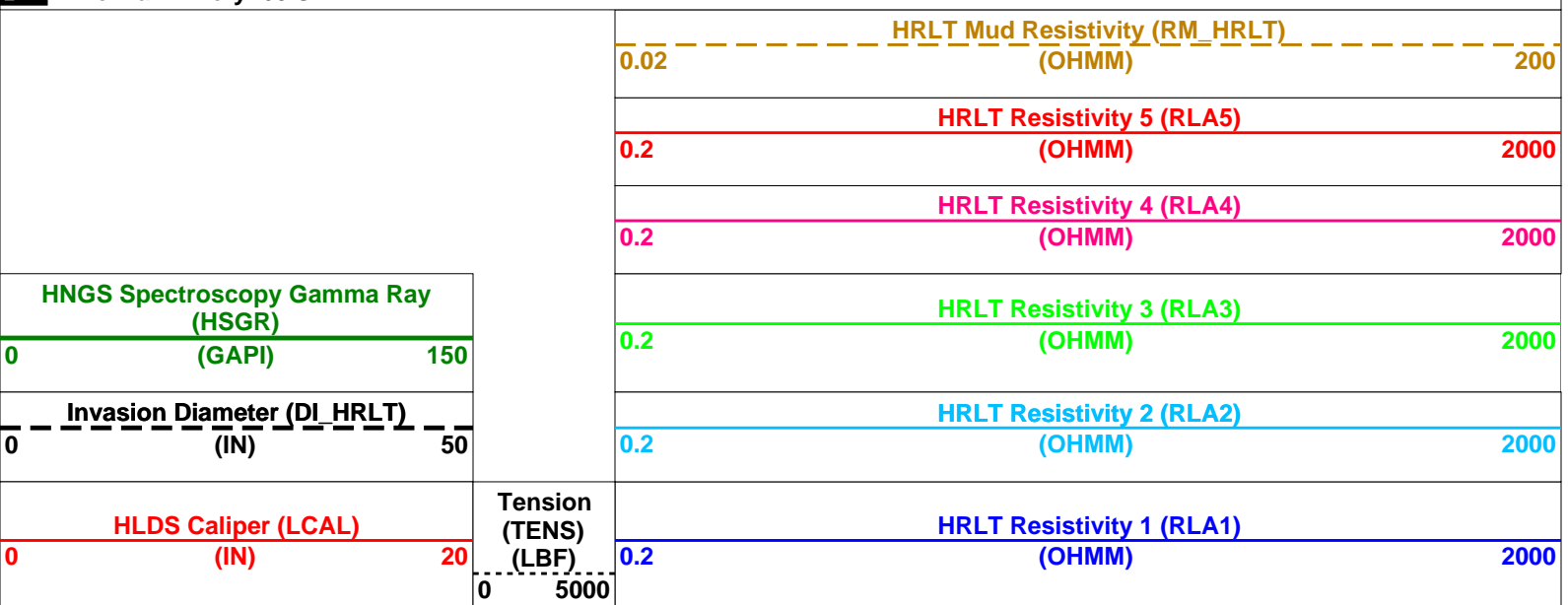
DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M

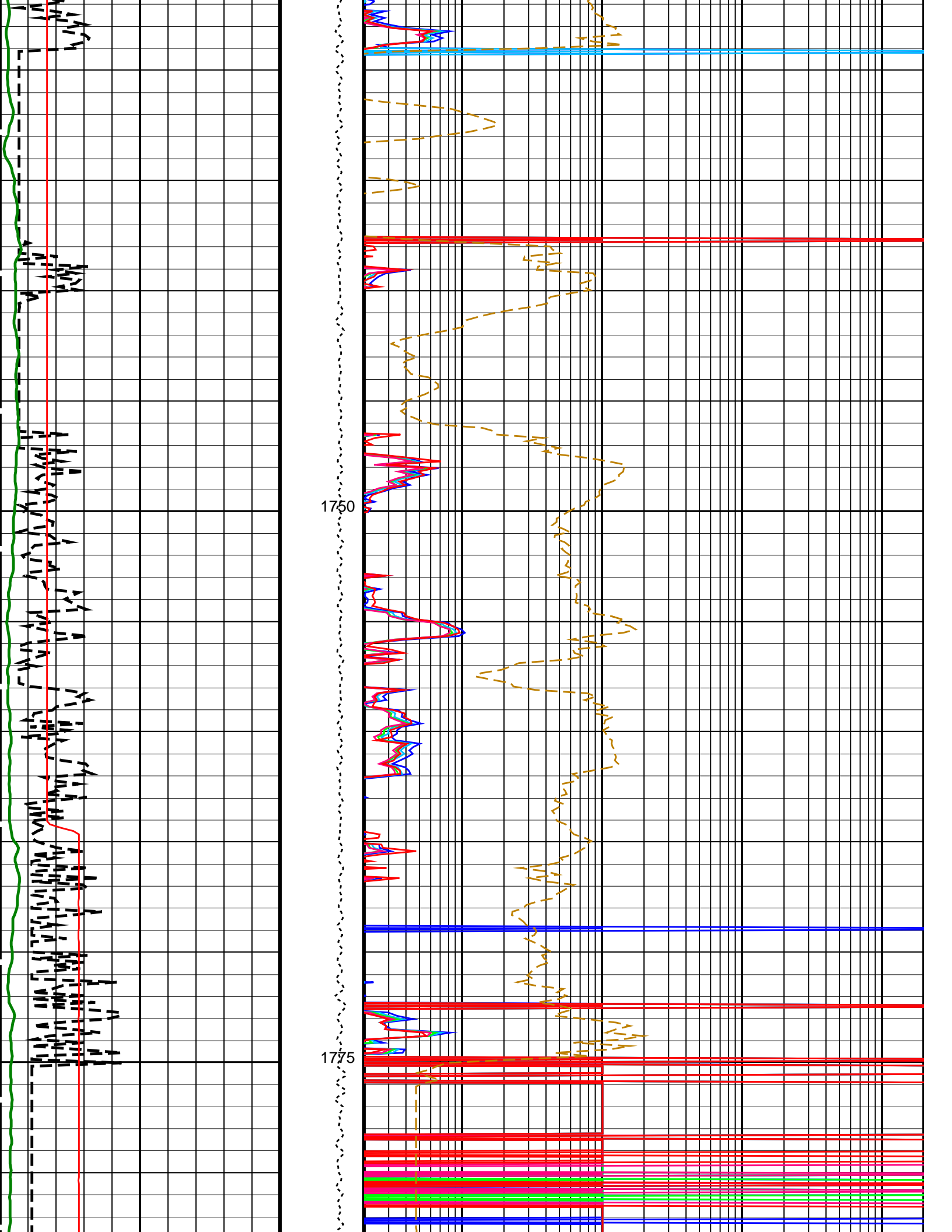
OP System Version: 19C0-187

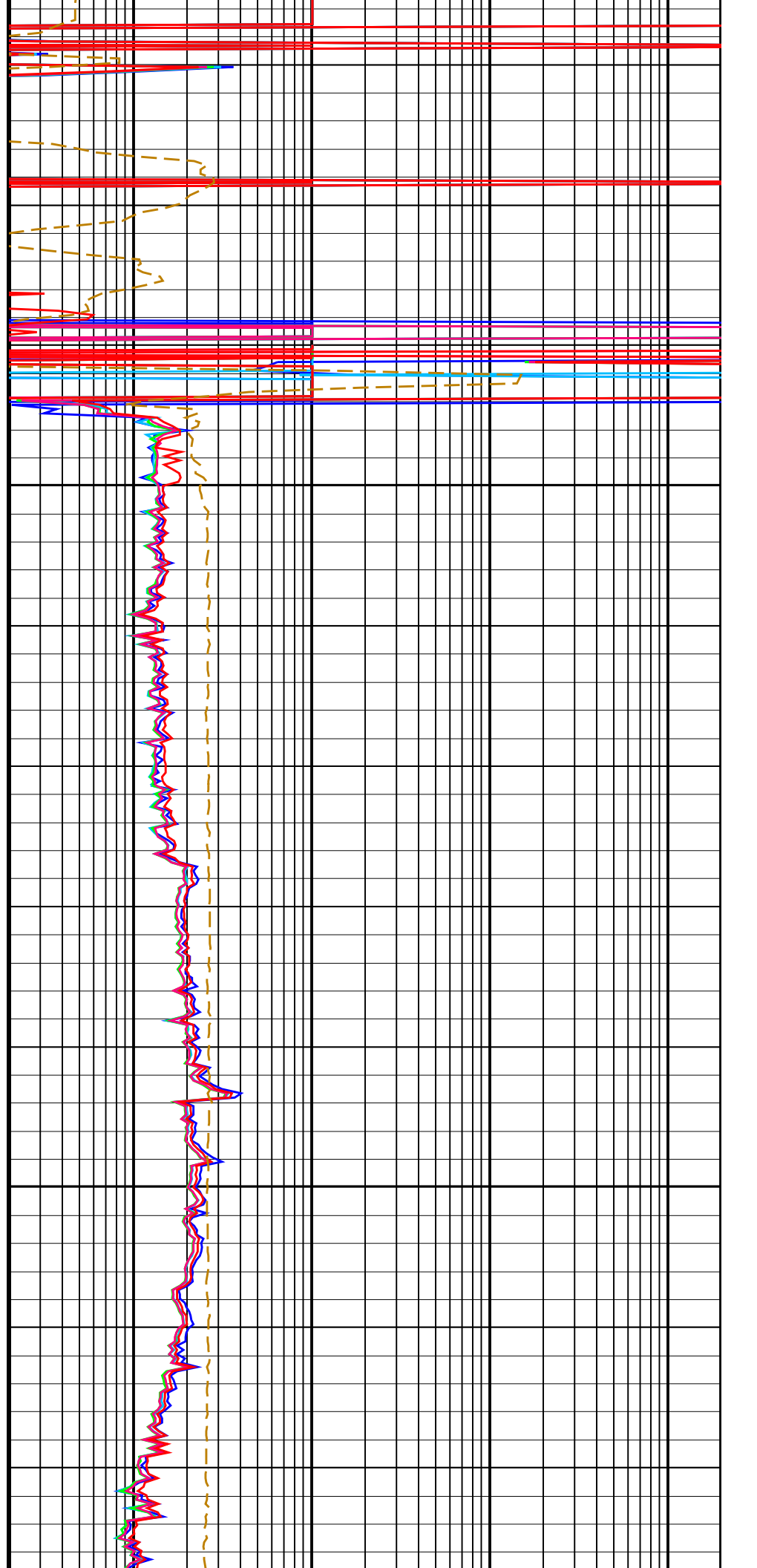
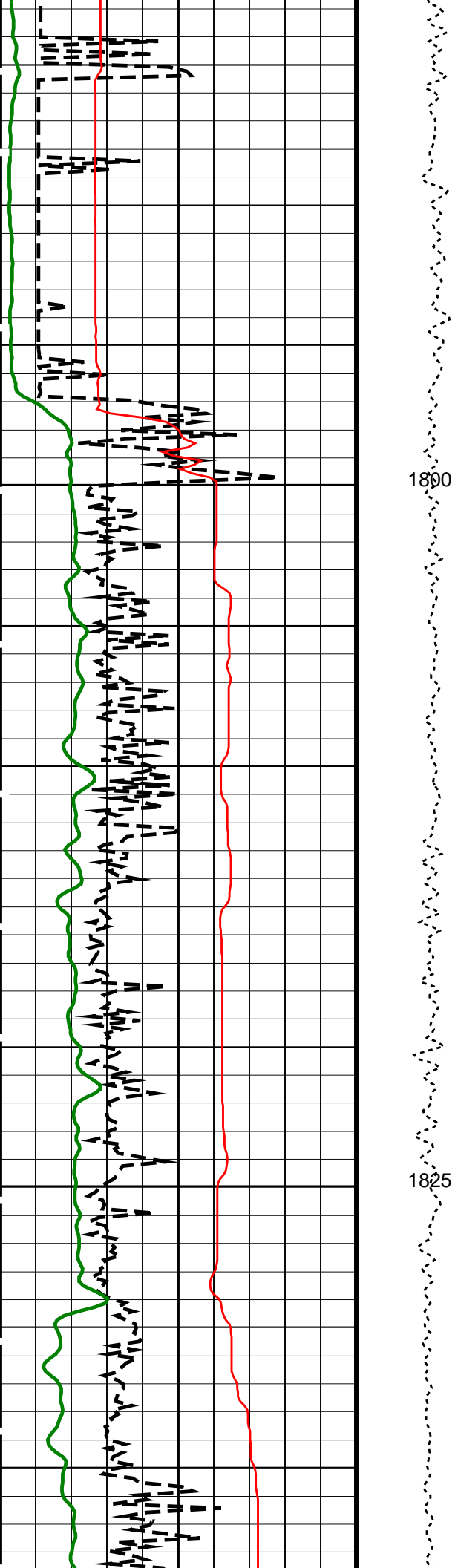
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

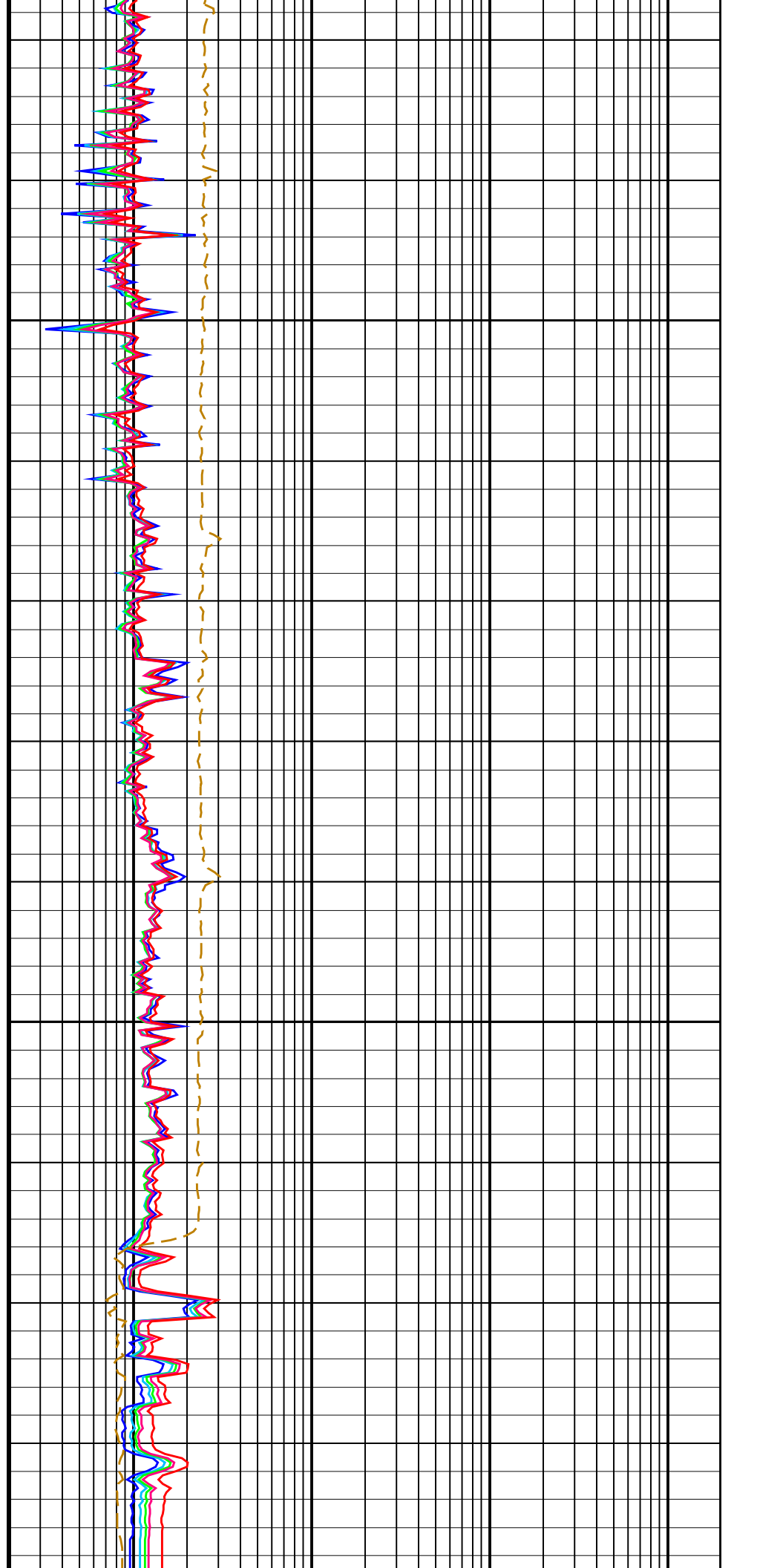
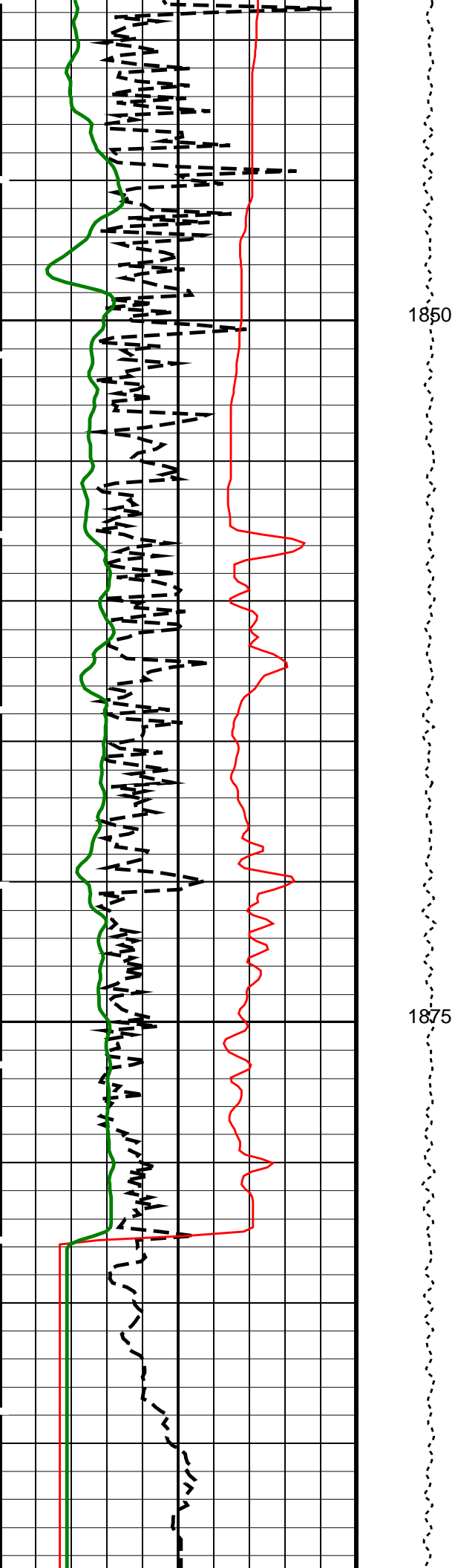
PIP SUMMARY

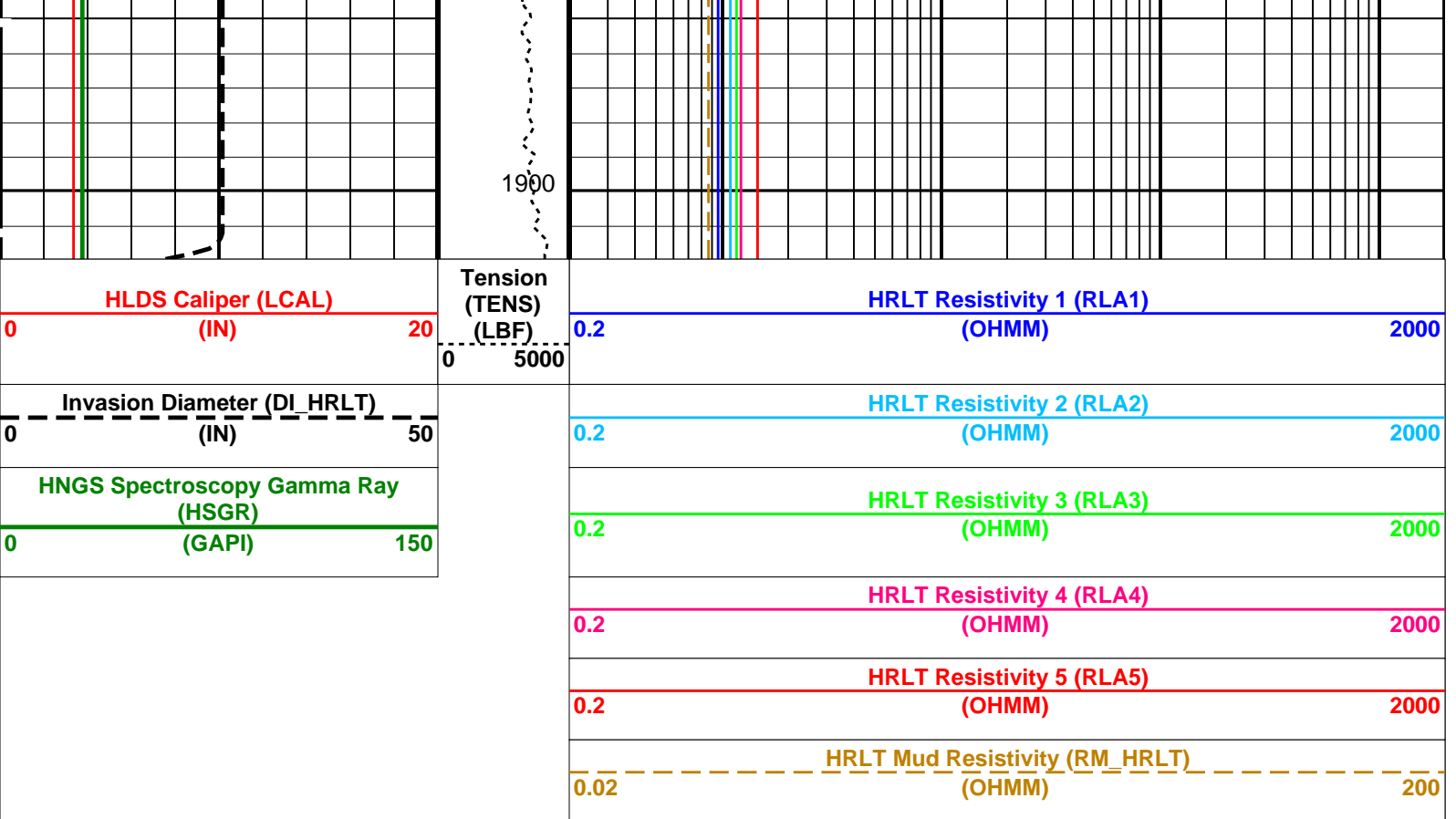
Time Mark Every 60 S











PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
<b>HRLT-B: High Resolution Laterolog Array - B</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
PROCMO	Mechanical Standoff Fin Size	0 IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute
PROCSP	Sonde Position	Eccentered
SHT	Surface Hole Temperature	20 DEGC
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>		
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	-0.0029256
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	0.945323	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
TD	Total Depth	2292	M

Format: HRLT    Vertical Scale: 1:200    Graphics File Created: 25-Aug-2021 13:32

### 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_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32

Company: International Ocean Discovery Program    Well: Expedition 396, Site U1568A

### Output DLIS Files

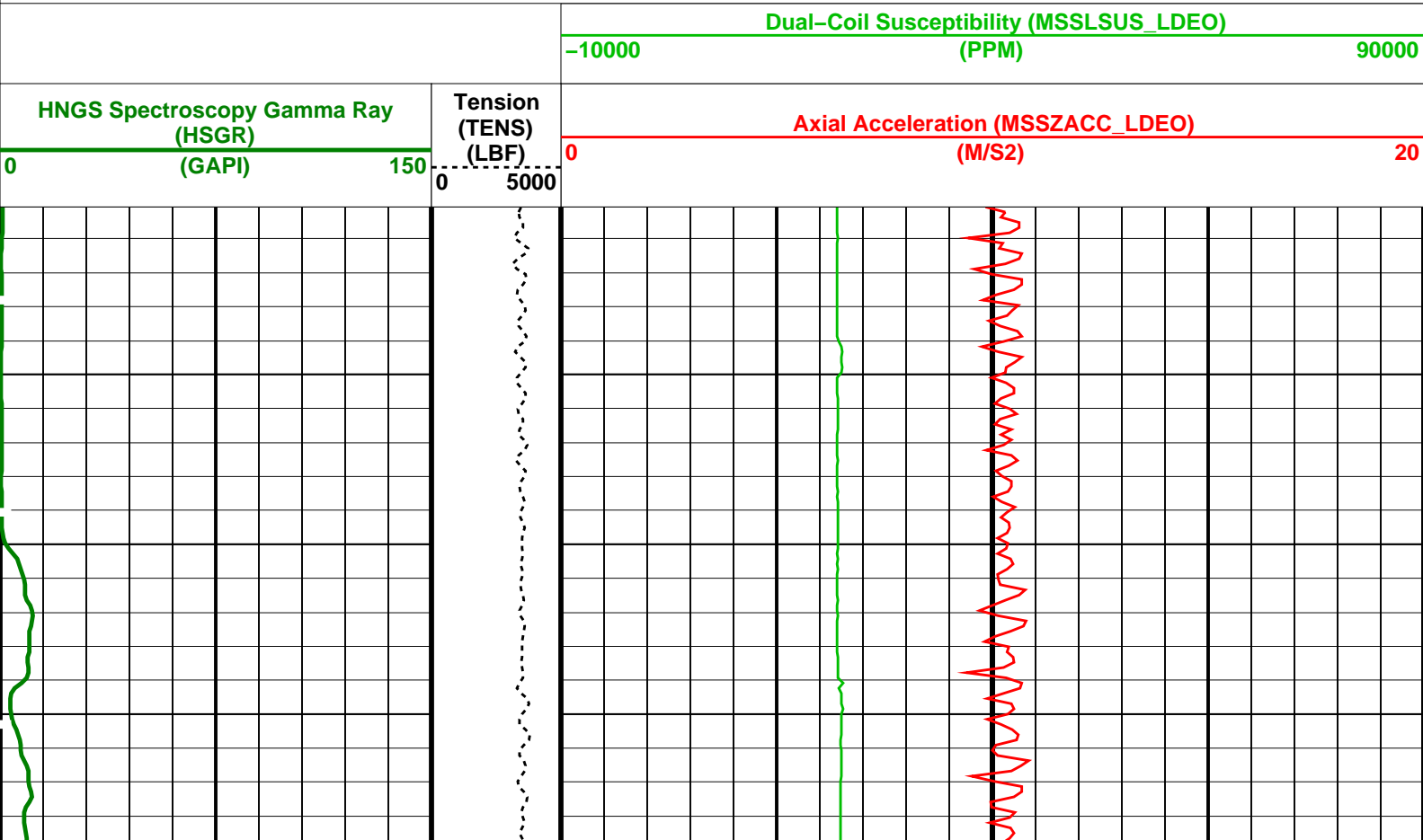
DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32	1902.0 M	1705.1 M

### OP System Version: 19C0-187

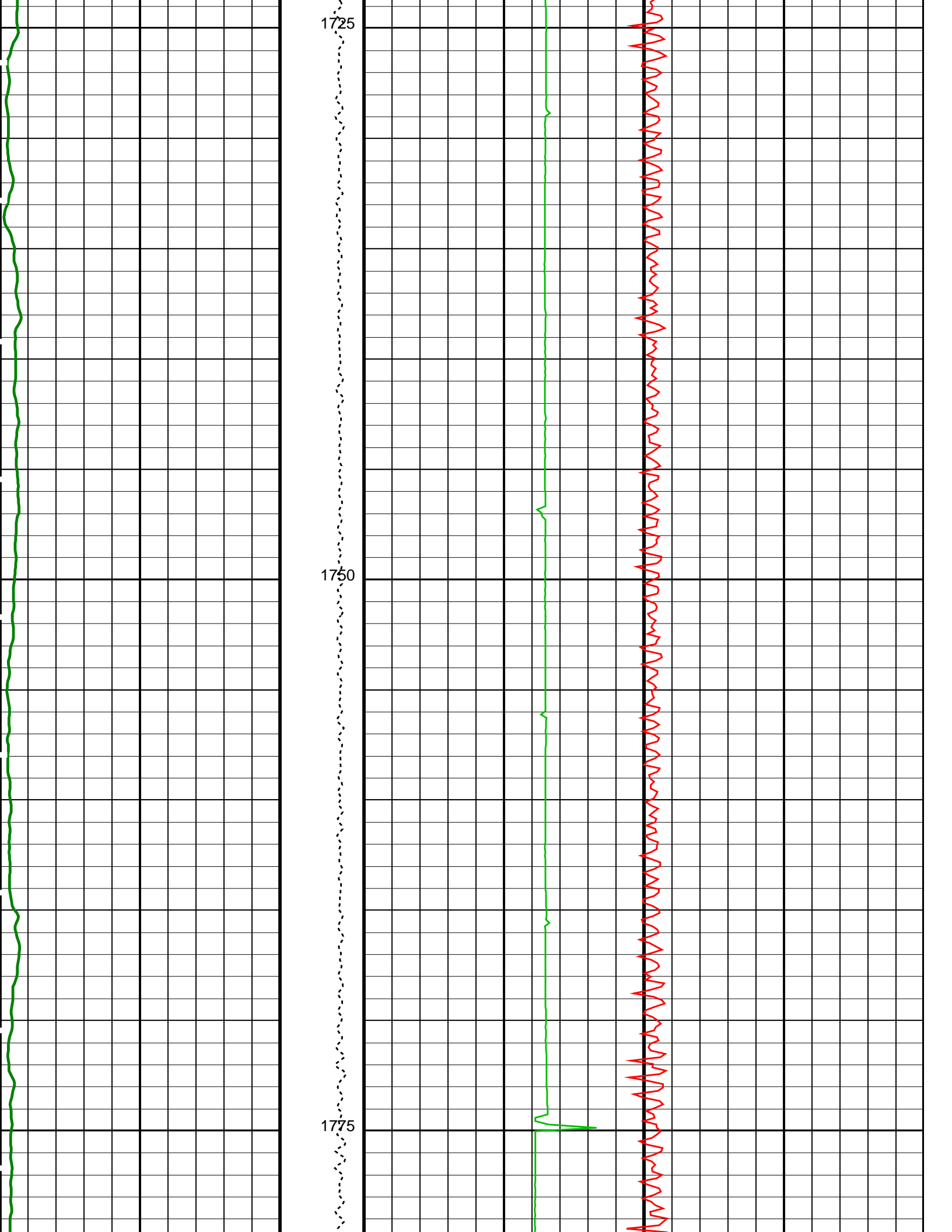
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
DTC-H	19C0-187		

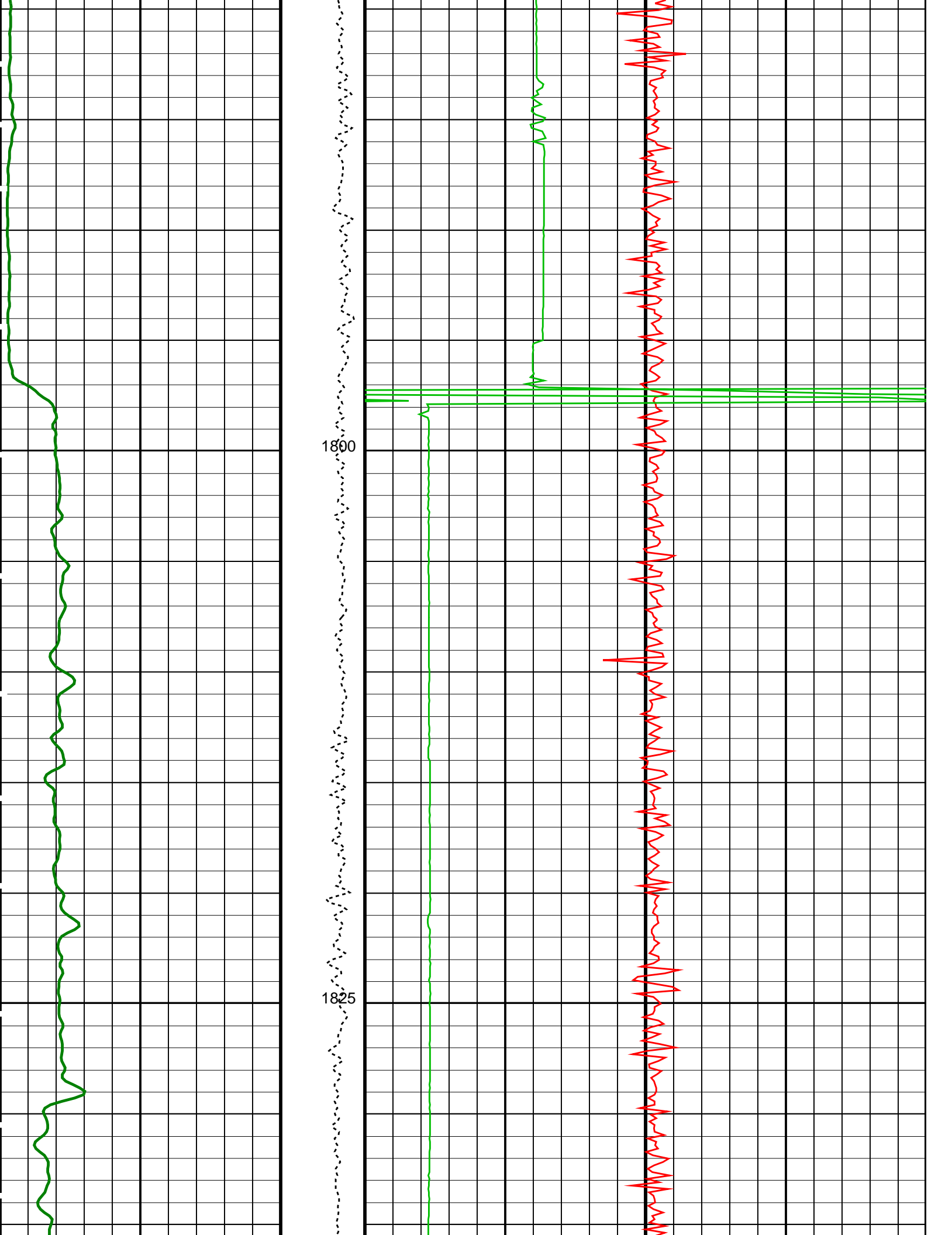
### PIP SUMMARY

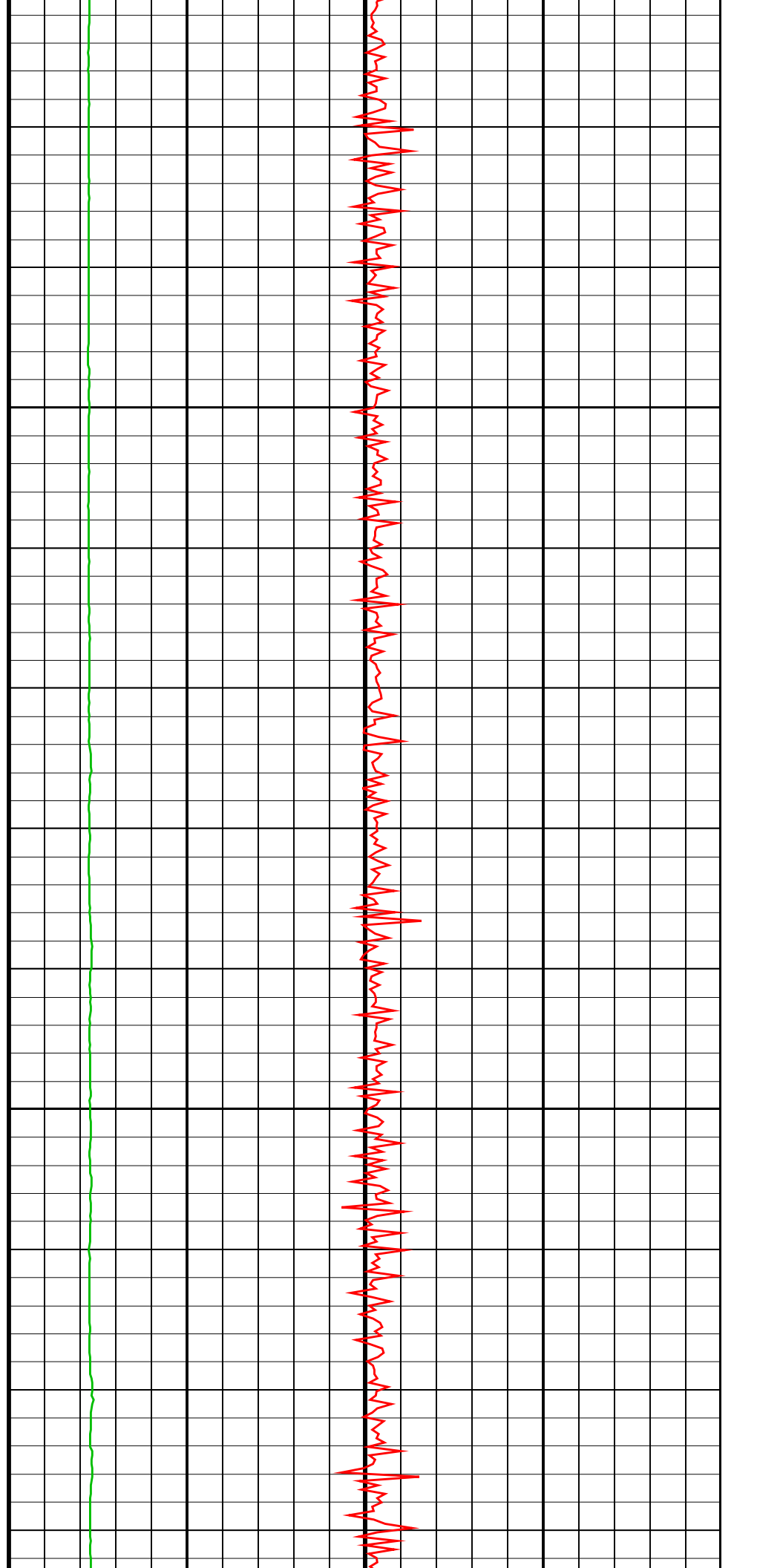
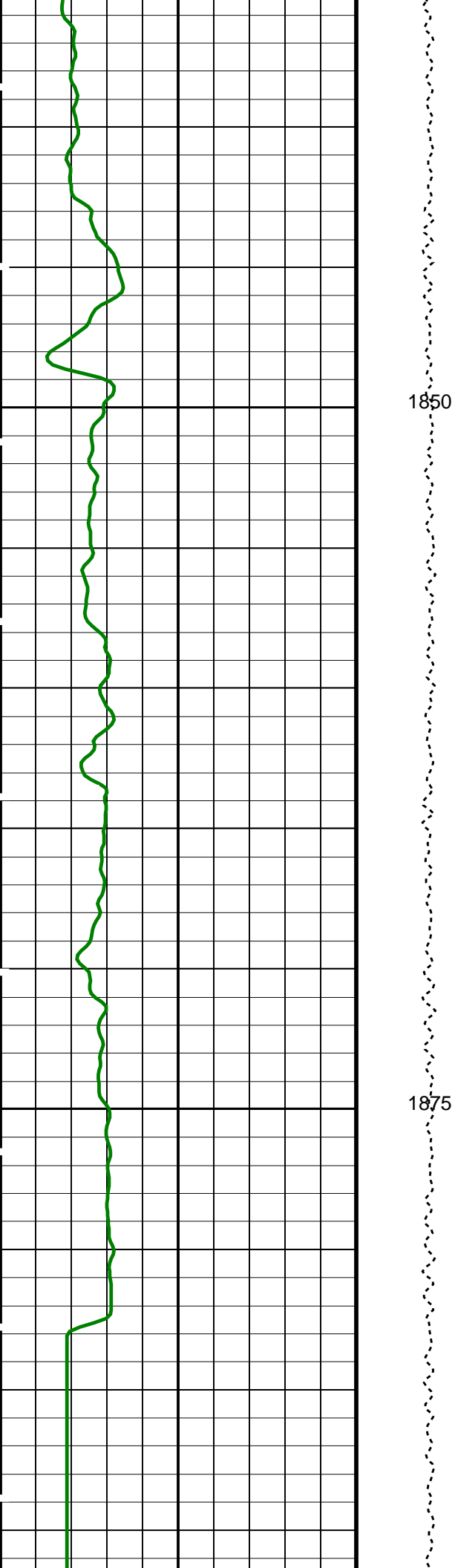
Time Mark Every 60 S

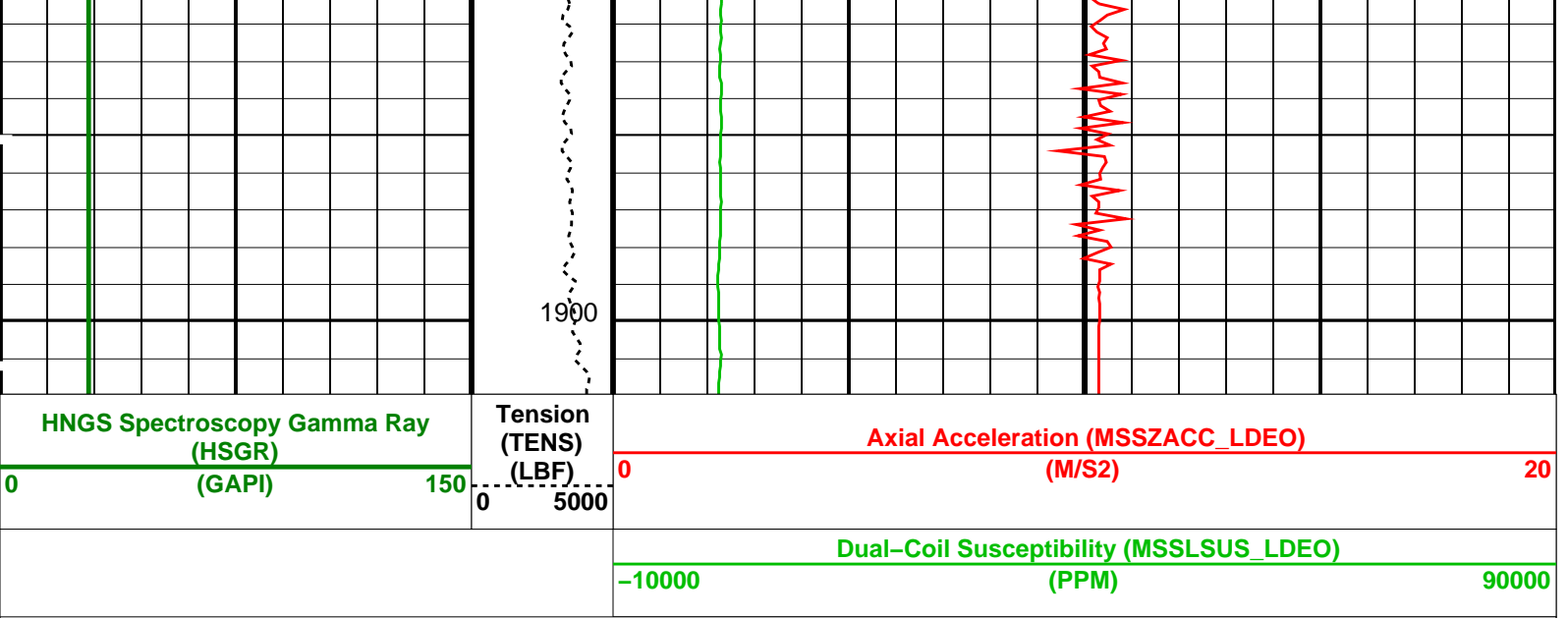












PIP SUMMARY

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	-0.0029256
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	0.945323
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.992537
System and Miscellaneous		
BS	Bit Size	11.438 IN
DFD	Drilling Fluid Density	1.26 G/C3

Format: MSS\_Logging

Vertical Scale: 1:200

Graphics File Created: 25-Aug-2021 13:32

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_019LUP	FN:23	PRODUCER	25-Aug-2021 13:32
RTB	MSS_LDEO_HRLA_LDL_019LUP	FN:24	PRODUCER	25-Aug-2021 13:32

## 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: 25–Aug–2021 5:06 After: 25–Aug–2021 8:29							
HRLT M0–M1 Voltage Plus – 0	0	N/A	–318.6	–318.7	–0.01379	9.681	UV
HRLT M0–M1 Voltage Plus – 1	0	N/A	–330.0	–330.4	–0.3458	9.681	UV
HRLT M0–M1 Voltage Plus – 2	0	N/A	–337.6	–337.5	0.09451	9.681	UV
HRLT M0–M1 Voltage Plus – 3	0	N/A	–328.2	–328.3	–0.1712	9.681	UV
HRLT M0–M1 Voltage Plus – 4	0	N/A	–319.8	–319.9	–0.1038	9.681	UV
HRLT M0–M1 Voltage Plus – 5	0	N/A	–321.5	–321.6	–0.1014	9.681	UV
HRLT M0–M1 Voltage Plus – 6	0	N/A	319.1	319.3	0.1727	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: 25–Aug–2021 5:06 After: 25–Aug–2021 8:29							
HRLT M1–M2 Voltage Plus – 0	0	N/A	1739	1739	–0.2341	53.42	UV
HRLT M1–M2 Voltage Plus – 1	0	N/A	1809	1810	1.359	53.42	UV
HRLT M1–M2 Voltage Plus – 2	0	N/A	1842	1842	–0.5762	53.42	UV
HRLT M1–M2 Voltage Plus – 3	0	N/A	1789	1790	0.4554	53.42	UV
HRLT M1–M2 Voltage Plus – 4	0	N/A	1742	1742	0.1935	53.42	UV
HRLT M1–M2 Voltage Plus – 5	0	N/A	1752	1752	0.1006	53.42	UV
HRLT M1–M2 Voltage Plus – 6	0	N/A	–1757	–1758	–0.5071	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: 25–Aug–2021 5:06 After: 25–Aug–2021 8:29							
HRLT M2–M3 Voltage Plus – 0	0	N/A	1732	1732	–0.1029	53.42	UV
HRLT M2–M3 Voltage Plus – 1	0	N/A	1812	1813	1.510	53.42	UV
HRLT M2–M3 Voltage Plus – 2	0	N/A	1847	1846	–0.9396	53.42	UV
HRLT M2–M3 Voltage Plus – 3	0	N/A	1798	1799	0.6208	53.42	UV
HRLT M2–M3 Voltage Plus – 4	0	N/A	1745	1745	0.1781	53.42	UV
HRLT M2–M3 Voltage Plus – 5	0	N/A	1756	1757	0.1459	53.42	UV
HRLT M2–M3 Voltage Plus – 6	0	N/A	–1749	–1749	–0.3538	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: 25–Aug–2021 5:06 After: 25–Aug–2021 8:29							
HRLT A3–A4 Voltage Plus – 0	0	N/A	68630	68630	1.883	2100	UV
HRLT A3–A4 Voltage Plus – 1	0	N/A	71630	71680	55.77	2100	UV
HRLT A3–A4 Voltage Plus – 2	0	N/A	73340	73320	–24.65	2100	UV
HRLT A3–A4 Voltage Plus – 3	0	N/A	71610	71650	39.47	2100	UV
HRLT A3–A4 Voltage Plus – 4	0	N/A	69450	69480	22.06	2100	UV
HRLT A3–A4 Voltage Plus – 5	0	N/A	69910	69920	14.88	2100	UV
HRLT A3–A4 Voltage Plus – 6	0	N/A	–68170	–68190	–21.68	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: 25–Aug–2021 5:06 After: 25–Aug–2021 8:29							
HRLT A4–A5 Voltage Plus – 0	0	N/A	68700	68700	4.398	2100	UV
HRLT A4–A5 Voltage Plus – 1	0	N/A	71830	71890	60.35	2100	UV
HRLT A4–A5 Voltage Plus – 2	0	N/A	73530	73500	–23.83	2100	UV
HRLT A4–A5 Voltage Plus – 3	0	N/A	71780	71790	3.805	2100	UV
HRLT A4–A5 Voltage Plus – 4	0	N/A	69570	69580	15.38	2100	UV
HRLT A4–A5 Voltage Plus – 5	0	N/A	70000	70020	16.83	2100	UV
HRLT A4–A5 Voltage Plus – 6	0	N/A	–68370	–68400	–32.95	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: 25–Aug–2021 5:06 After: 25–Aug–2021 8:29							
HRLT A5–A6 Voltage Plus – 0	0	N/A	68550	68550	4.391	2100	UV
HRLT A5–A6 Voltage Plus – 1	0	N/A	71660	71730	65.84	2100	UV
HRLT A5–A6 Voltage Plus – 2	0	N/A	73350	73330	–28.76	2100	UV

HRLT A5-A6 Voltage Plus - 3	0	N/A	71620	71670	50.84	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69430	69440	7.359	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69890	69900	12.95	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-68210	-68240	-22.54	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: 25-Aug-2021 5:06 After: 25-Aug-2021 8:29

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68090	-68090	-1.805	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-71460	-71530	-63.45	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73210	-73180	23.47	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71550	-71560	-15.19	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69390	-69410	-13.40	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69840	-69860	-16.07	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	67970	68000	23.09	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: 25-Aug-2021 5:06 After: 25-Aug-2021 8:29

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68120	-68120	-3.000	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-71560	-71620	-59.97	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73290	-73260	26.59	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71610	-71640	-30.38	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69440	-69460	-20.42	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69880	-69880	-4.328	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68060	68080	22.27	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: 25-Aug-2021 5:06 After: 25-Aug-2021 8:29

HRLT Source Current Plus - 0	0	N/A	284.2	284.2	0.02103	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: 25-Aug-2021 5:06 After: 25-Aug-2021 8:29

HRLT Vertical Voltage PI - 0	0	N/A	-320.6	-320.6	-0.07074	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-325.0	-325.4	-0.3320	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-331.2	-331.2	0.02032	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-320.2	-320.3	-0.1190	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-308.9	-309.0	-0.09970	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.6	-325.6	-0.05270	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	326.9	327.1	0.1902	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: 25-Aug-2021 5:09 After: 25-Aug-2021 8:32

SS Cs Resolution Bkg	9.000	7.698	7.651	7.655	0.003805	1.800	%
LS Cs Resolution Bkg	9.000	7.989	8.009	7.997	-0.01117	1.800	%
LSW1 Background	100.0	71.96	70.37	70.17	-0.2028	3.000	CPS
LSW2 Background	100.0	65.02	63.58	64.73	1.152	3.000	CPS
LSW3 Background	200.0	146.1	145.5	144.1	-1.386	6.000	CPS
LSW4 Background	250.0	183.2	182.2	181.4	-0.8118	7.500	CPS
LSW5 Background	600.0	424.9	421.5	422.3	0.8641	18.00	CPS
SSW1 Background	100.0	68.97	68.98	68.01	-0.9705	3.000	CPS
SSW2 Background	200.0	118.2	116.8	117.6	0.7712	6.000	CPS
SSW3 Background	500.0	331.3	329.6	330.8	1.108	15.00	CPS
SSW4 Background	270.0	178.4	177.2	176.9	-0.3541	8.100	CPS
SSW5 Background	200.0	127.4	126.3	126.4	0.1107	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	720.0	521.2	N/A	N/A	N/A	N/A	CPS

LSW2 Iron	730.0	524.2	N/A	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	699.6	N/A	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	360.1	N/A	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	333.9	N/A	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1520	N/A	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4870	N/A	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7479	N/A	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3030	N/A	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	343.3	N/A	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: 25-Aug-2021 5:10 After: 25-Aug-2021 8:33

Na 511 Peak Loc	40.00	39.25	39.71	39.55	-0.1544	1.000	
Na 511 Peak Res	15.50	16.53	14.17	16.04	1.871	2.000	%
High Voltage	1150	1197	1178	1179	1.459	N/A	V
Na 1785 Peak Loc	142.6	141.8	142.2	142.1	-0.1613	7.000	
Na 1785 Peak Res	8.500	8.905	8.257	9.126	0.8688	2.000	%
Temperature	15.50	26.59	16.40	16.19	-0.2060	N/A	DEGC
Na Count Rate	45.00	12.01	10.27	10.33	0.05869	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: Calibration out of date 2-May-2021 10:04 Before: 25-Aug-2021 5:10 After: 25-Aug-2021 8:33

Na 511 Peak Loc	40.00	39.88	39.49	39.62	0.1329	1.000	
Na 511 Peak Res	15.50	15.29	13.94	15.04	1.097	2.000	%
High Voltage	1150	1122	1104	1103	-0.8081	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.1	139.5	-1.618	7.000	
Na 1785 Peak Res	8.500	8.040	8.122	11.87	3.753	2.000	%
Temperature	15.50	27.21	16.95	17.60	0.6487	N/A	DEGC
Na Count Rate	45.00	12.32	10.12	10.38	0.2575	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: 25-Aug-2021 5:10 After: 25-Aug-2021 8:33

Coincidence Count Rate Ratio	1.000	0.9728	1.014	1.002	-0.01209	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		-318.7			
1	Before		-330.0	-322.7	-280.7	-379.7
	After		-330.4			
2	Before		-337.6	-322.7	-280.7	-379.7
	After		-337.5			
3	Before		-328.2	-322.7	-280.7	-379.7
	After		-328.3			
4	Before		-319.8	-322.7	-280.7	-379.7
	After		-319.9			
5	Before		-321.5	-322.7	-280.7	-379.7
	After		-321.6			
	Before		319.1			

6	Before		319.3	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
			(Minimum)	(Nominal)	(Maximum)	
Before: 25-Aug-2021 5:06						
After: 25-Aug-2021 8:29						

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		1739			
1	Before		1809	1781	2095	1549
	After		1810			
2	Before		1842	1781	2095	1549
	After		1842			
3	Before		1789	1781	2095	1549
	After		1790			
4	Before		1742	1781	2095	1549
	After		1742			
5	Before		1752	1781	2095	1549
	After		1752			
6	Before		-1757	-1781	-1549	-2095
	After		-1758			
7	Before		1781	1781	2095	1549
	After		1781			
			(Minimum)	(Nominal)	(Maximum)	
Before: 25-Aug-2021 5:06						
After: 25-Aug-2021 8:29						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1732	1781	2095	1549
	After		1732			
1	Before		1812	1781	2095	1549
	After		1813			
2	Before		1847	1781	2095	1549
	After		1846			
3	Before		1798	1781	2095	1549
	After		1799			
4	Before		1745	1781	2095	1549
	After		1745			
5	Before		1756	1781	2095	1549
	After		1757			
6	Before		-1749	-1781	-1549	-2095
	After		-1749			
7	Before		1781	1781	2095	1549
	After		1781			
			(Minimum)	(Nominal)	(Maximum)	



7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 25-Aug-2021 5:06  
 After: 25-Aug-2021 8:29

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68630	70000	82360	60900
	After		68630			
1	Before		71630	70000	82360	60900
	After		71680			
2	Before		73340	70000	82360	60900
	After		73320			
3	Before		71610	70000	82360	60900
	After		71650			
4	Before		69450	70000	82360	60900
	After		69480			
5	Before		69910	70000	82360	60900
	After		69920			
6	Before		-68170	-70000	-60900	-82360
	After		-68190			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 25-Aug-2021 5:06  
 After: 25-Aug-2021 8:29

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68700	70000	82360	60900
	After		68700			
1	Before		71830	70000	82360	60900
	After		71890			
2	Before		73530	70000	82360	60900
	After		73500			
3	Before		71780	70000	82360	60900
	After		71790			
4	Before		69570	70000	82360	60900
	After		69580			
5	Before		70000	70000	82360	60900
	After		70020			
6	Before		-68370	-70000	-60900	-82360
	After		-68400			
7	Before		70000	70000	82360	60900
	After		70000			

(Minimum) (Nominal) (Maximum)  
 Before: 25-Aug-2021 5:06  
 After: 25-Aug-2021 8:29

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68550	70000	82360	60900
	After		68550			
1	Before		71660	70000	82360	60900
	After		71730			
2	Before		73350	70000	82360	60900
	After		73330			
3	Before		71620	70000	82360	60900
	After		71670			
4	Before		69430	70000	82360	60900
	After		69440			
5	Before		69890	70000	82360	60900
	After		69900			
6	Before		-68210	-70000	-60900	-82360
	After		-68240			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 25-Aug-2021 5:06  
 After: 25-Aug-2021 8:29

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68090	-70000	-60900	-82360
	After		-68090			
1	Before		-71460	-70000	-60900	-82360
	After		-71530			
2	Before		-73210	-70000	-60900	-82360
	After		-73180			
3	Before		-71550	-70000	-60900	-82360
	After		-71560			
4	Before		-69390	-70000	-60900	-82360
	After		-69410			
5	Before		-69840	-70000	-60900	-82360
	After		-69860			
6	Before		67970	70000	82360	60900
	After		68000			
7	Before		-70000	-70000	-60900	-82360
	After		-70000			
		(Minimum) (Nominal) (Maximum)				

Before: 25-Aug-2021 5:06  
 After: 25-Aug-2021 8:29

High Resolution Laterolog Array – B Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68120	-70000	-60900	-82360
	After		-68120			
1	Before		-71560	-70000	-60900	-82360
	After		-71620			
2	Before		-73290	-70000	-60900	-82360
	After		-73260			
3	Before		-71610	-70000	-60900	-82360
	After		-71640			
4	Before		-69440	-70000	-60900	-82360
	After		-69460			
5	Before		-69880	-70000	-60900	-82360
	After		-69880			
6	Before		68060	70000	82360	60900
	After		68080			
7	Before		-70000	-70000	-60900	-82360
	After		-70000			
		(Minimum) (Nominal) (Maximum)				

Before: 25-Aug-2021 5:06

After: 25-Aug-2021 8:29

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: 25-Aug-2021 5:06

After: 25-Aug-2021 8:29

High Resolution Laterolog Array – B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
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dx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.6	-322.7	-280.7	-379.7
	After		-320.6			
1	Before		-325.0	-322.7	-280.7	-379.7
	After		-325.4			
2	Before		-331.2	-322.7	-280.7	-379.7
	After		-331.2			
3	Before		-320.2	-322.7	-280.7	-379.7
	After		-320.3			
4	Before		-308.9	-322.7	-280.7	-379.7
	After		-309.0			
5	Before		-325.6	-322.7	-280.7	-379.7
	After		-325.6			
6	Before		326.9	322.7	379.7	280.7
	After		327.1			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
		(Minimum) (Nominal) (Maximum)				
Before: 25-Aug-2021 5:06						
After: 25-Aug-2021 8:29						

**Hostile Litho-Density Sonde / Equipment Identification**

**Primary Equipment:**

Gamma Source Radioactive  
 Hostile Litho Density Sonde  
 Hostile Litho Density High Voltage

GSR - ZA 2945  
 HLDS - D 77  
 HLDV - D 67

**Auxiliary Equipment:**

Hostile Litho Density High Voltage Housi  
 Hostile Litho Density Pad

HEH - H 67  
 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		7.651	Before		8.009	Before		70.37
After		7.655	After		7.997	After		70.17
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		63.58	Before		145.5	Before		182.2
After		64.73	After		144.1	After		181.4
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		421.5	Before		68.98	Before		116.8
After		422.3	After		68.01	After		117.6
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

Master:		331.5	Master:		176.4	Master:		127.4
Before		329.6	Before		177.2	Before		126.3
After		330.8	After		176.9	After		126.4
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: 25-Aug-2021 5:09			After: 25-Aug-2021 8:32		

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment: LDSC Cartridge	LDSC - B	521
Auxiliary Equipment: LDSC Housing	LDSH - A	319

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		39.71	Before		14.17	Before		1178
After		39.55	After		16.04	After		1179
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		142.2	Before		8.257	Before		16.40
After		142.1	After		9.126	After		16.19
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		10.27
After		10.33
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)		

Master: Calibration out of date 2-May-2021 10:04 Before: 25-Aug-2021 5:10 After: 25-Aug-2021 8:33

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		39.49	Before		13.94	Before		1104

After		39.62	After		15.04	After		1103			
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)		12.00 (Minimum)	15.50 (Nominal)	19.00 (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			141.1	Before			8.122	Before			16.95
After			139.5	After	EXCEEDS LIMIT		11.87	After			17.60
	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			10.12								
After			10.38								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: Calibration out of date 2-May-2021 10:04			Before: 25-Aug-2021 5:10			After: 25-Aug-2021 8:33					

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9728	
Before		1.014	
After		1.002	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: Calibration out of date 2-May-2021 10:04			
Before: 25-Aug-2021 5:10			
After: 25-Aug-2021 8:33			

DTS Telemetry Tool / Equipment Identification		
Primary Equipment:		
DTC-H Auxiliary Cartridge	DTCH - A	8799
DTC-H Telemetry Cartridge	DTCH - A	8799
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH - KC	9842

Company:	<b>International Ocean Discovery Program</b>	<b>Schlumberger</b>
Well:	<b>Expedition 396, Site U1568A</b>	
Field:	<b>Mid-Norwegian Cont. Margin Magmatism</b>	
Rig:	<b>JOIDES Resolution</b>	
Country:	<b>Iceland</b>	
Natural GR Spectroscopy (HNGS) Litho-Density (HLDS) Laterolog Resistivity (HRLA)		