



Company: International Ocean Discovery Program

Well: **Expedition 385, Site U1547B**

Field: **Guaymas Basin Tectonics and Biosphere**Rig: **JOIDES Resolution** Country: **Mexico**

Rig: JOIDES Resolution Field: Guaymas Basin Technonics and B Location: Latitude: N 27° 39.2315' Well: Expedition 385, Site U1547B Company: International Ocean Discovery Pr	High Resolution Laterolog Array (HRLA) Natural Gamma Ray, Density (HNGS, HLDS)				
	LOCATION	Latitude: N 27° 39.2315' Longitude: W 111° 53.3396'		Elev.: K.B. 0.00 m G.L. -1743.30 m D.F. 0.00 m	
		Permanent Datum: Sea Floor		Elev.: -1743.30 m	
		Log Measured From: Rig Floor		1743.30 m above Perm. Datum	
		Drilling Measured From: Rig Floor			
Ocean: Pacific		Max. Well Deviation 0 deg	Longitude W 111.6789	Latitude N 27.50688	

Logging Date			19-Oct-2019					
Run Number			1					
Depth Driller			1953.1 m					
Schlumberger Depth			1912 m					
Bottom Log Interval			1909 m					
Top Log Interval			1743.3 m					
Casing Driller Size @ Depth			5.500 in @ 1813.3 m			@		
Casing Schlumberger			1813.3 m					
Bit Size			11.438 in					
Type Fluid In Hole			Sea Water					
MUD	Density	Viscosity	1.05 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	0.317 @ 9	@ 9	@		@		
Maximum Recorded Temperatures			9 degC					
Circulation Stopped		Time	19-Oct-2019		0:00			
Logger On Bottom		Time	19-Oct-2019		12:15			
Unit Number		Location	626501 Larose, LA					
Recorded By			C. Furman					
Witnessed By			K. Griger					

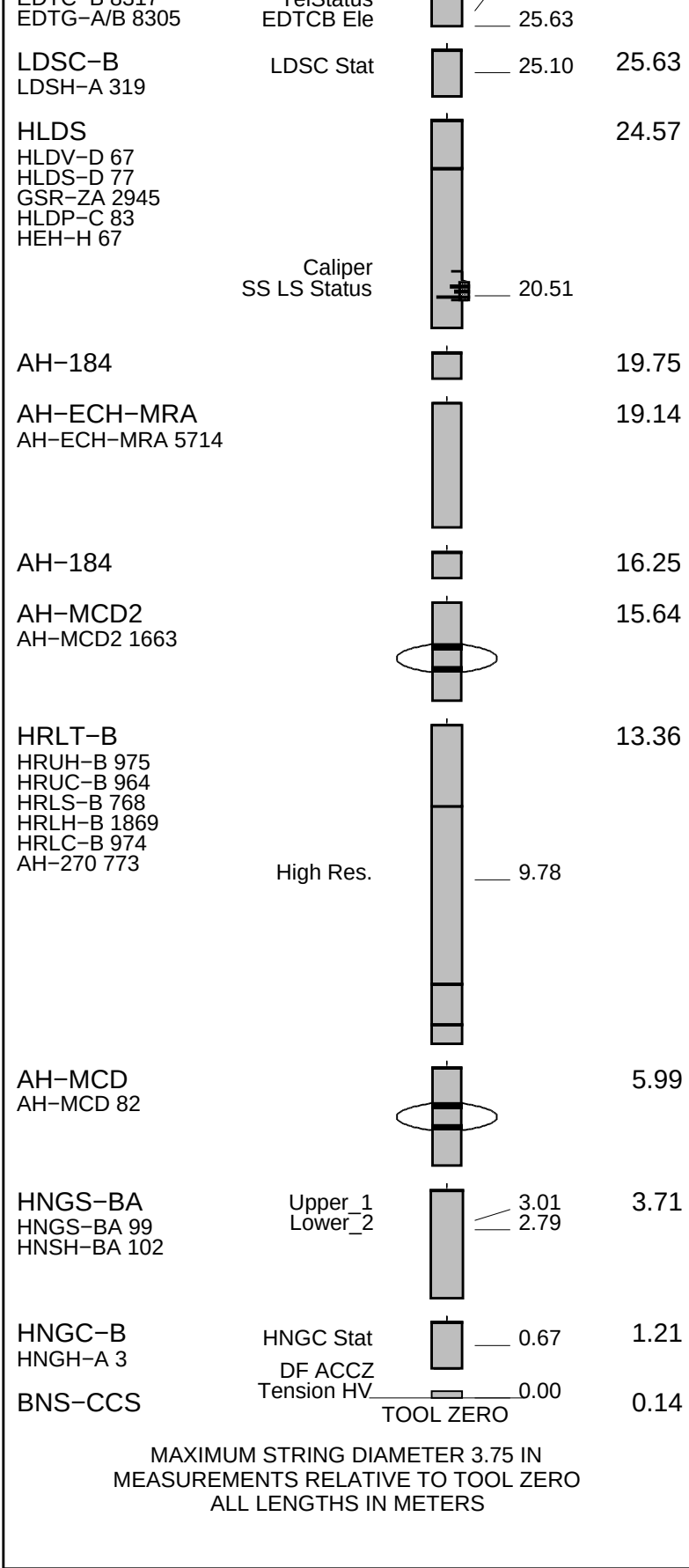
[illegible]

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			

DISCLAIMER
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REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole drilled with APC/XCB Assembly at 11-7/16" BS	
Logging conducted through LFV using LFV Actuator (Go Devil) attached to logging string	
Drilled TD was 1953.1mbrf, but the wiper trip was only conducted to 1945mbrf, so that was the max depth.	
Drill Pipe set at 1813.3mbrf for logging.	
Tcombo run with upper part eccentralized, lower centralized with MCD tools.	See toolsketch.
Fluid type was sea water.	
Depth recorded from drill floor; logs presented as-logged without depth corrections or shifts, as per client instructions.	
All logs presented in wireline measured depth below rig floor (MDBRF).	
Caliper opened during upward passes.	
Hole size corrections made using caliper measurements for upward passes.	
Active Heave Compensator (AHC) used in open-hole; switched off prior to re-enting pipe.	
Mud Temperature recorded using LEH-MT for QUALITATIVE analysis of borehole fluid temperature.	
Hole collapse / overpull indicated just below pipe; unable to return to bottom for additional passes.	

[illegible]



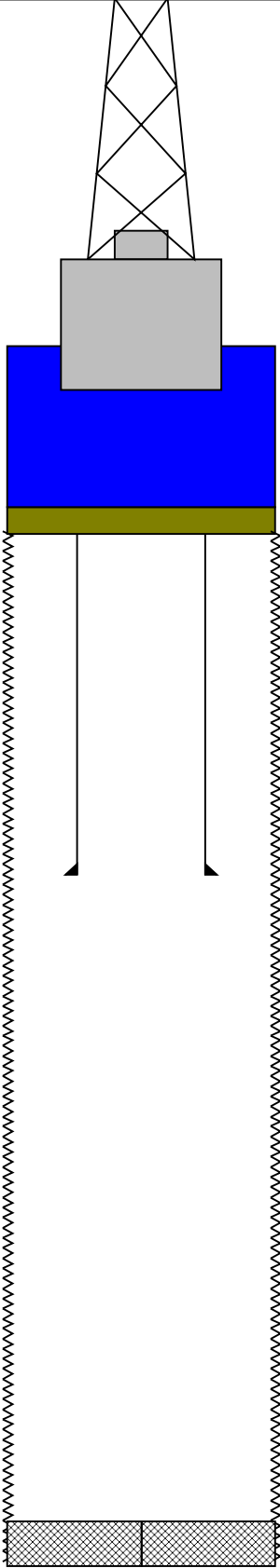
Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID	MD	MD	OD	ID

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

0.0
0.0

11.0



1743.3

11.438

4.125

Sea Floor

1813.3

5.500

4.125

Bit Depth

1945.0
1953.1

11.438

Max Cleared Depth
TD – Driller



Uplog
1:200 Scale

MAXIS Field Log

Company: International Ocean Discovery Program Well: Expedition 385, Site U1547B

Output DLIS Files

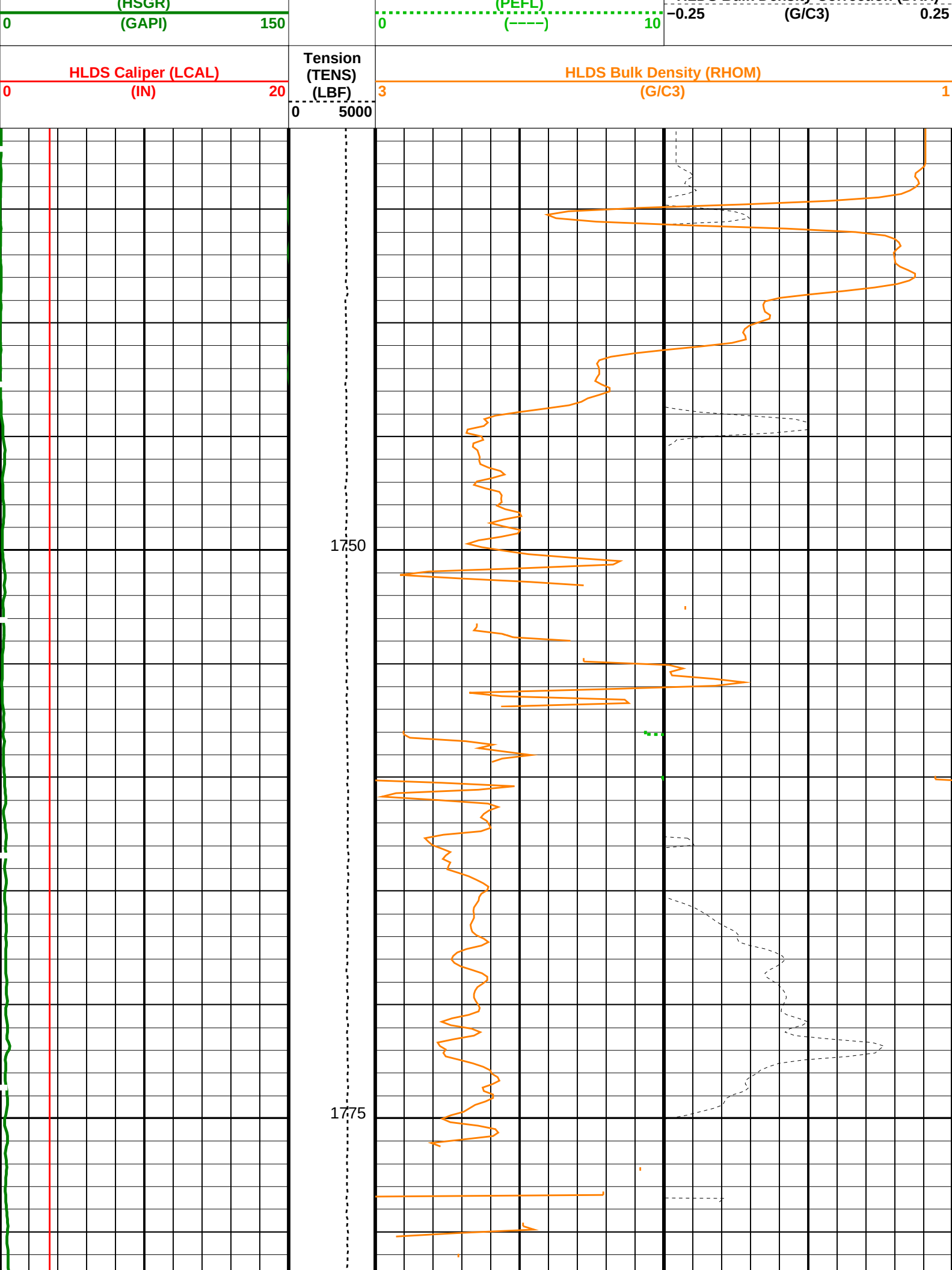
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RTB	NGS_HRLA_LDL_011LUP	FN:13	PRODUCER	20-Oct-2019 00:29	1911.1 M	1731.4 M

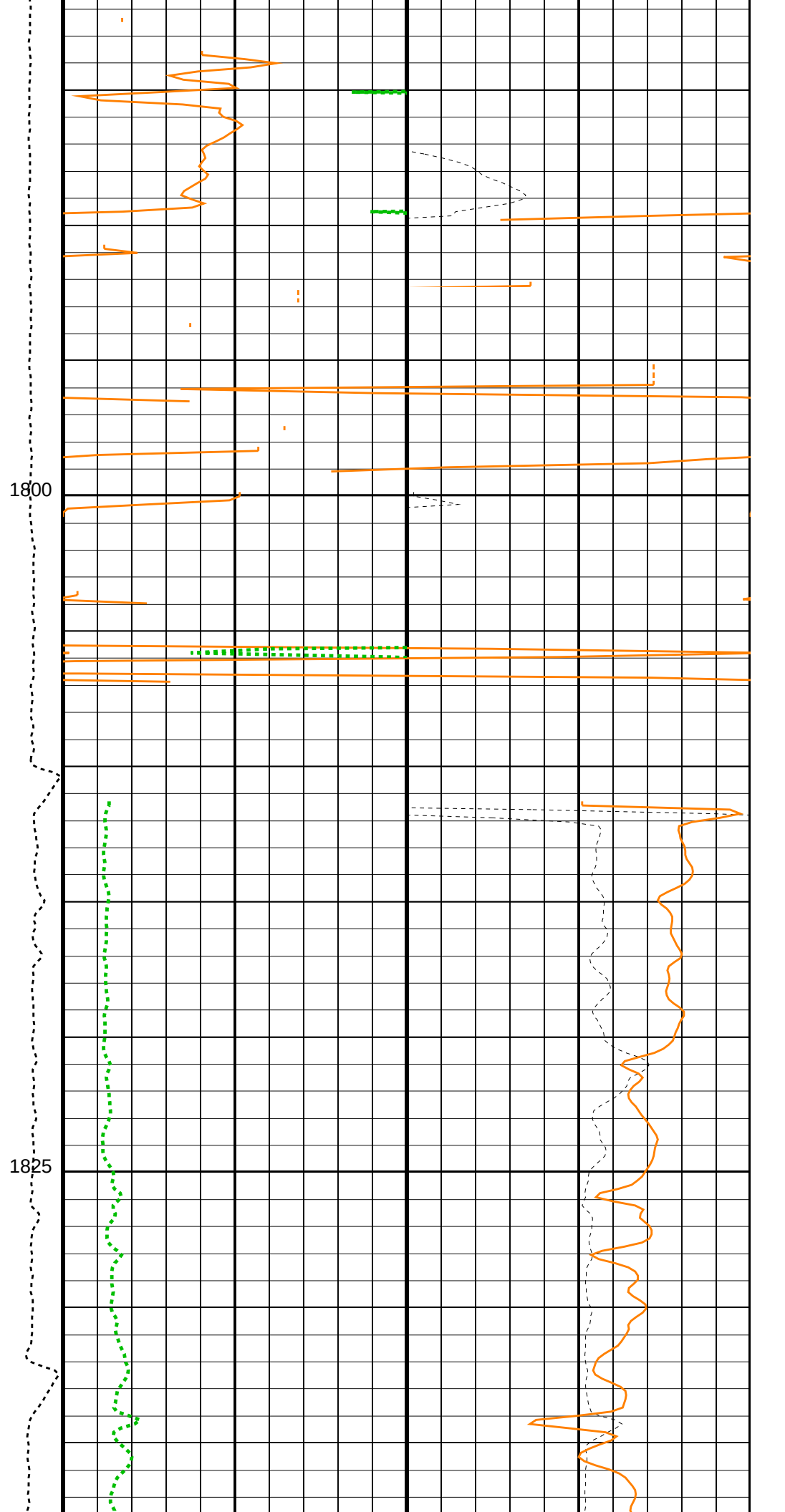
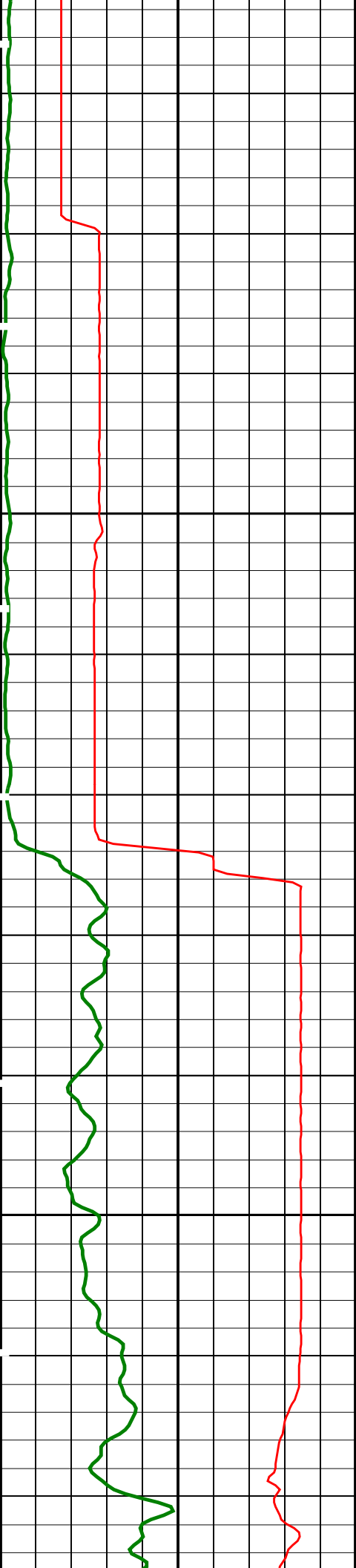
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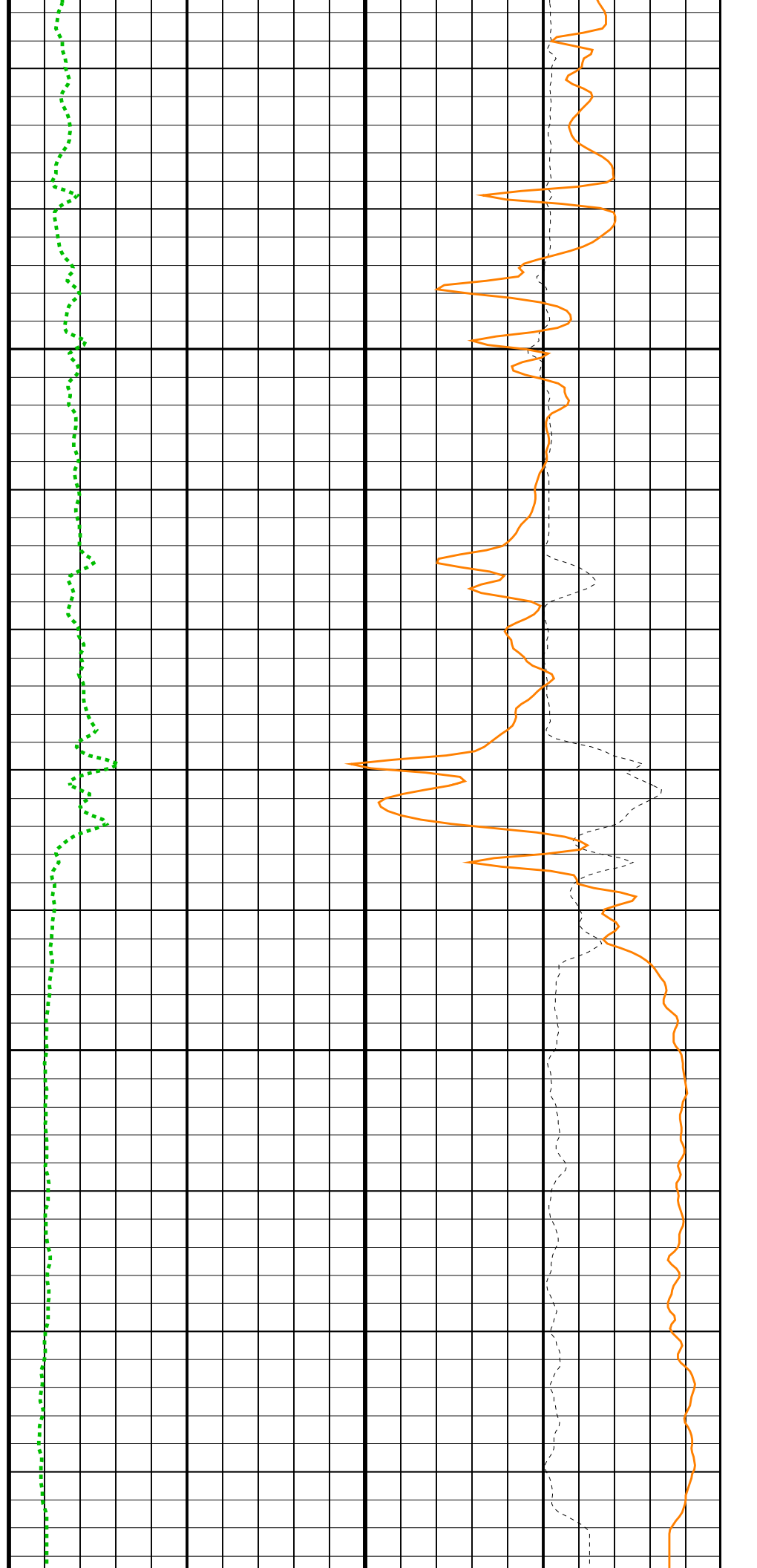
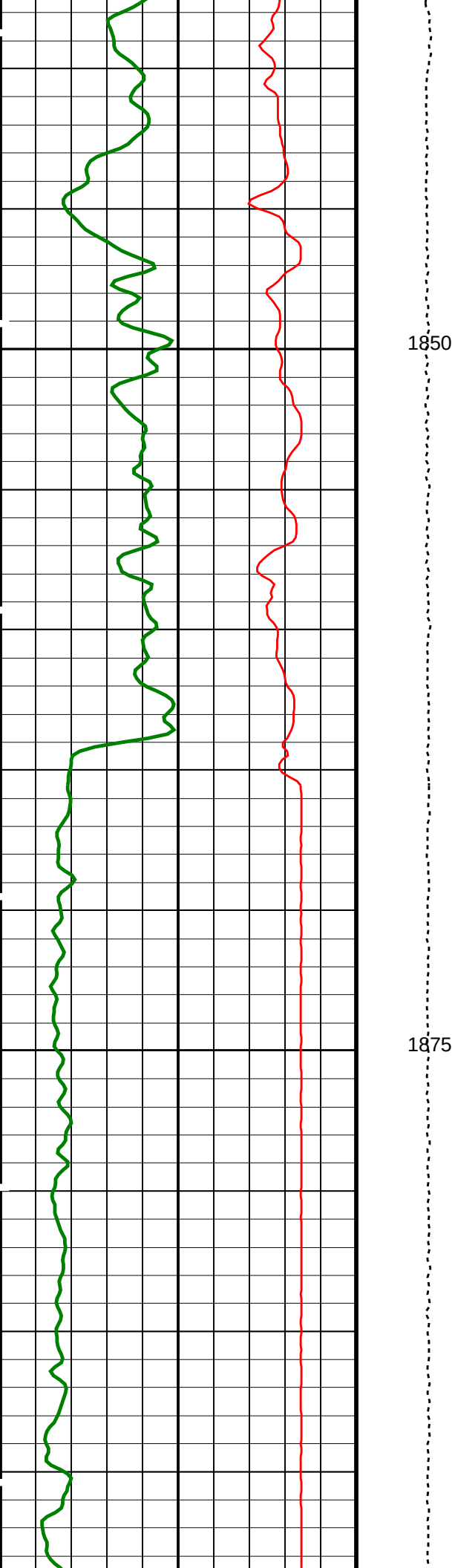
HNGC-B	19C0-187	HNGS-BA	19C0-187
HRLT-B	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

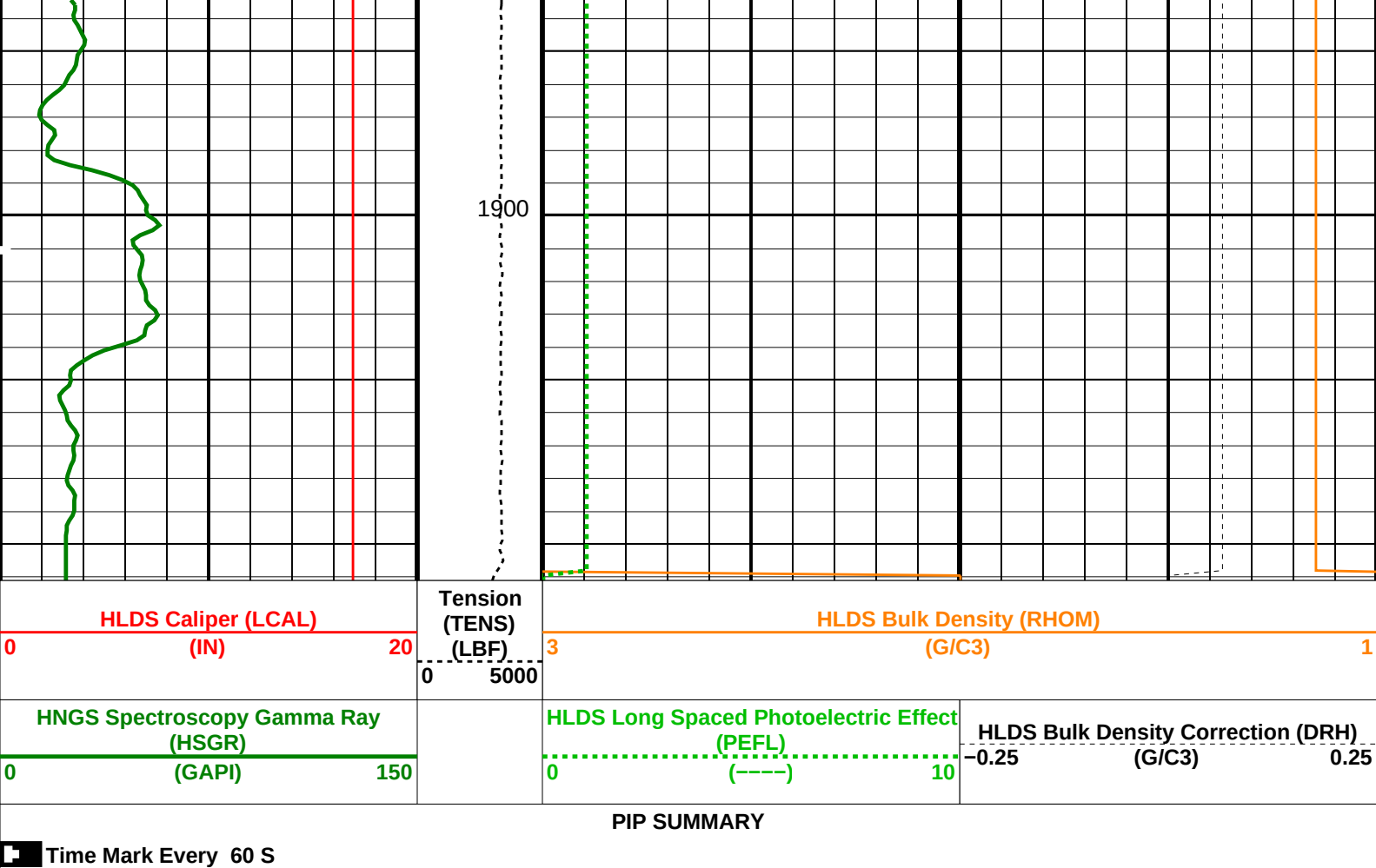
PIP SUMMARY

Time Mark Every 60 S		HLDS Long Spaced Photoelectric Effect (DSFL)	HLDS Bulk Density Correction (DRH)
HNGS Spectroscopy Gamma Ray (NGS)			







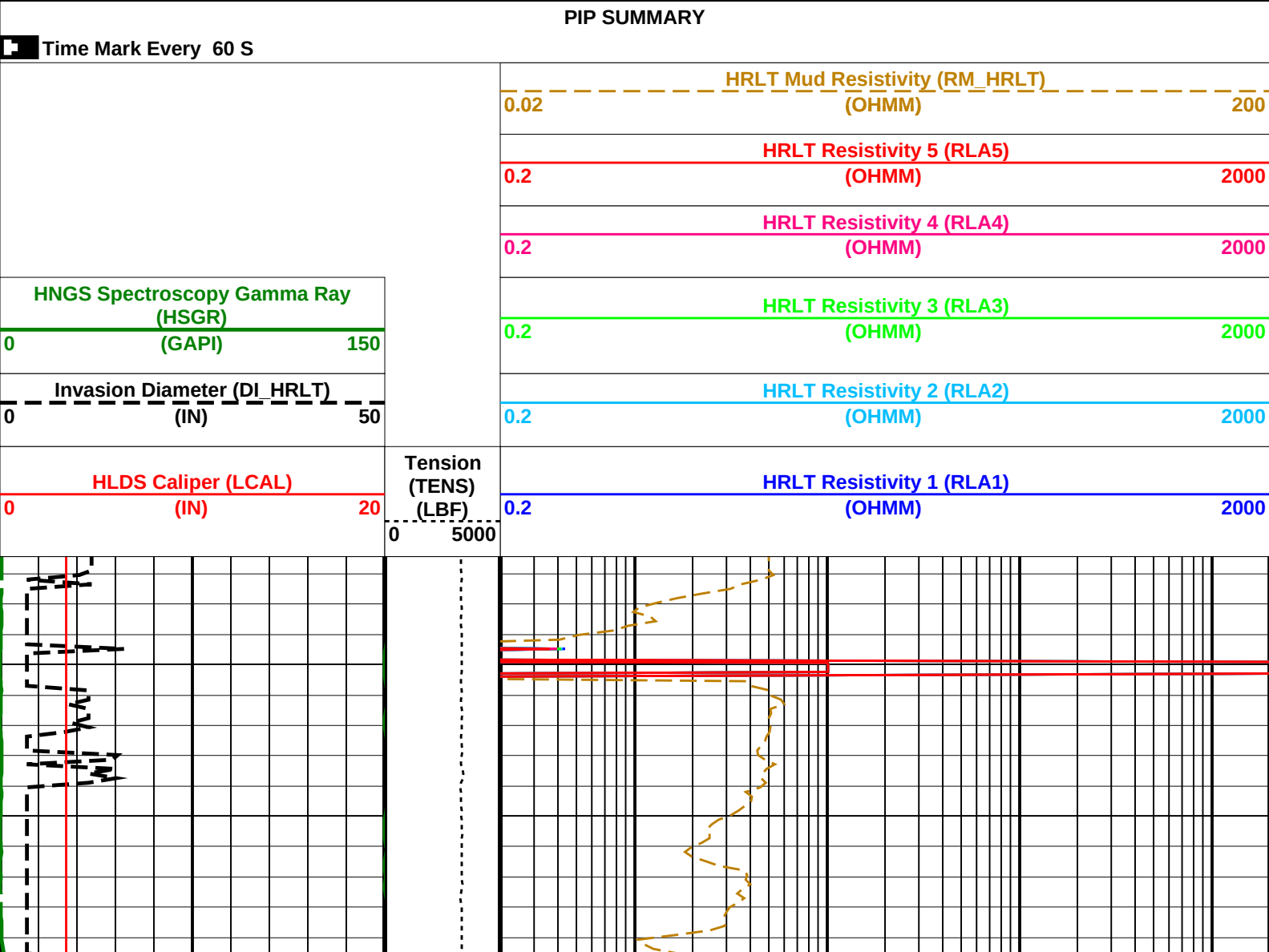


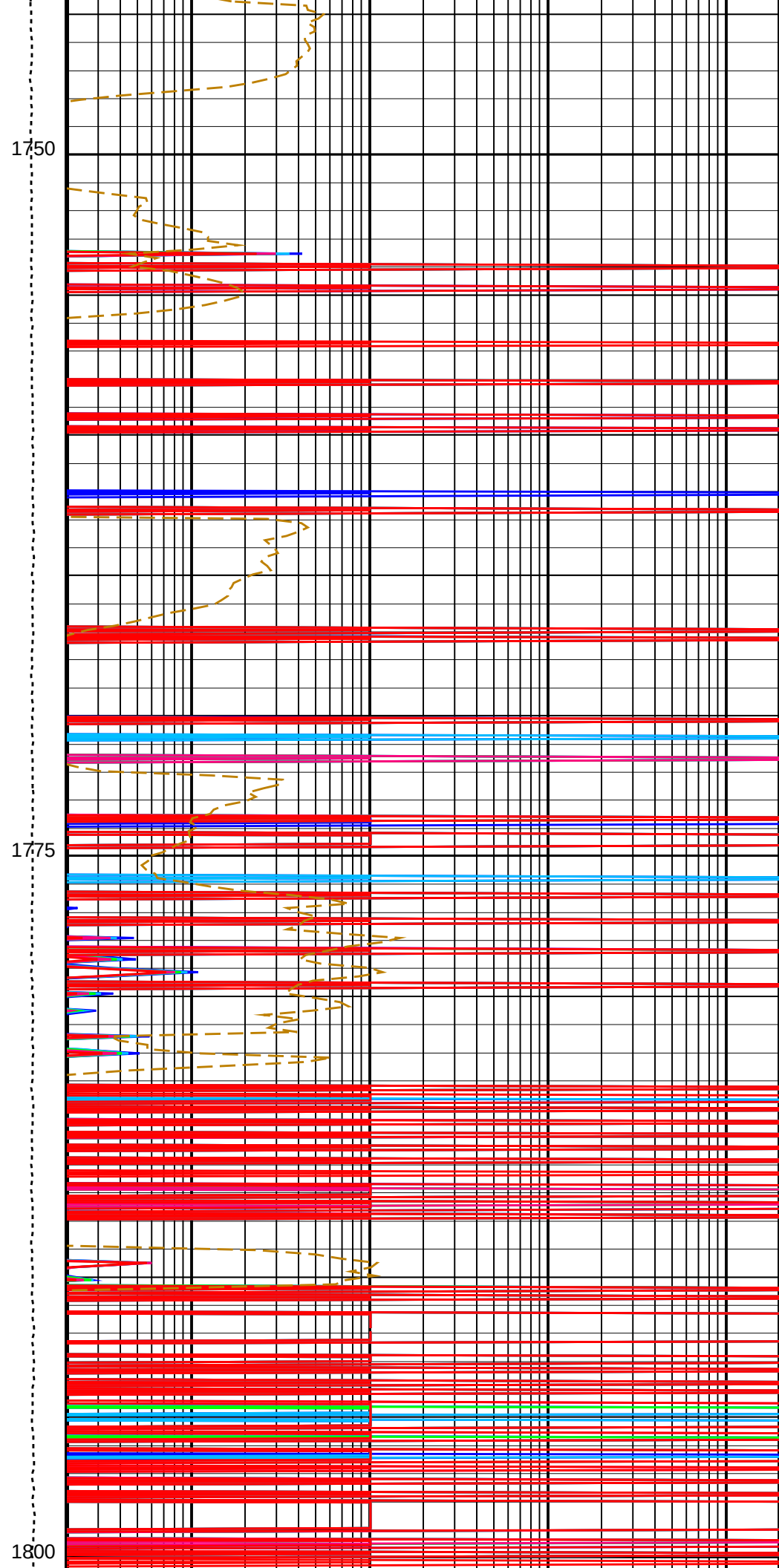
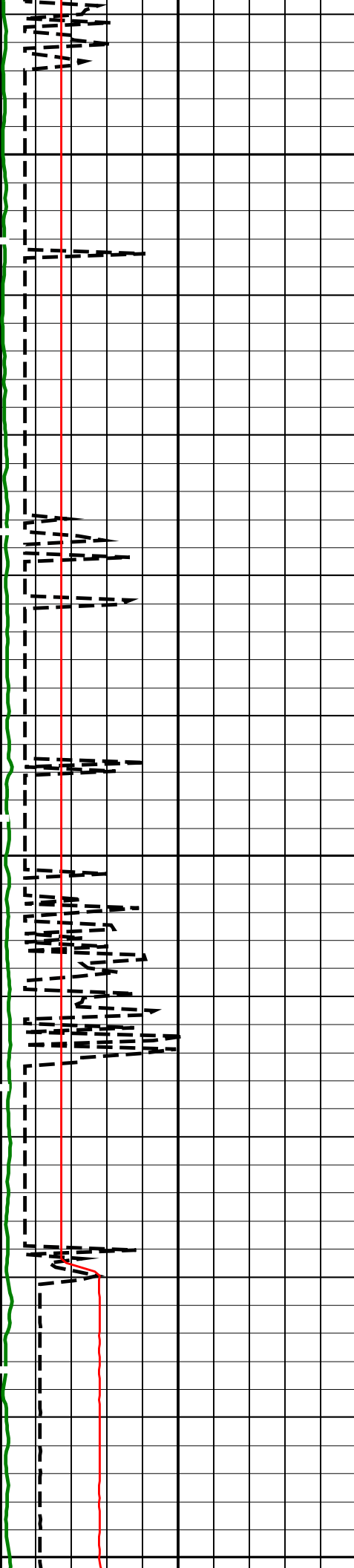
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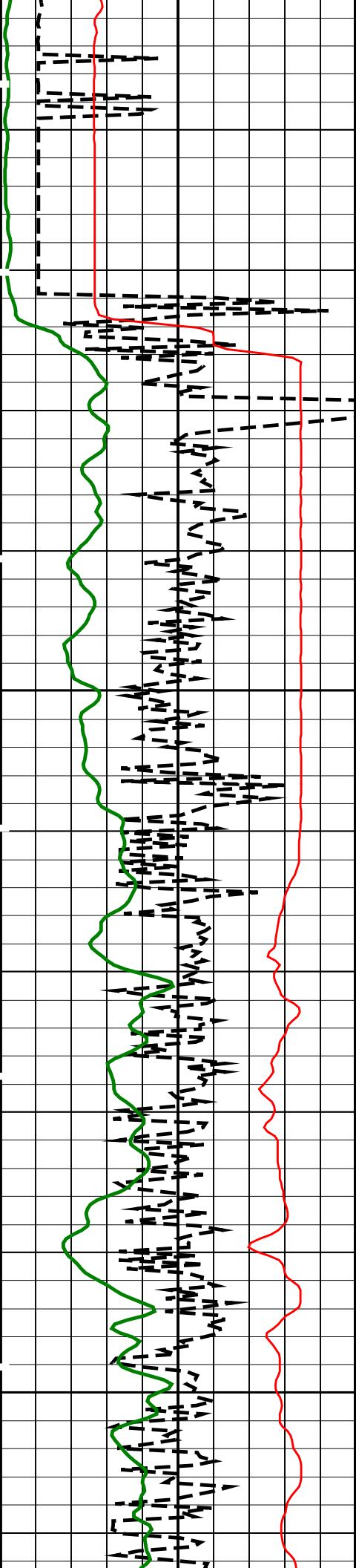
DLIS Name	Description	Value
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 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	-0.00199192
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	CENT
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00079
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04584
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	OFF
MDEN	Matrix Density	2.6 G/C3
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
DPPM	Density Porosity Processing Mode	HIRS
GCSE	Generalized Caliper Selection	LCAL
System and Miscellaneous		
BS	Bit Size	11.438 IN

DFD	Drilling Fluid Density			1.05	G/C3
Format: HLDSDensityPE		Vertical Scale: 1:200		Graphics File Created: 20-Oct-2019 00:29	
OP System Version: 19C0-187					
HNGC-B	19C0-187		HNGS-BA	19C0-187	
HRLT-B	19C0-187		HLDS	19C0-187	
LDSC-B	19C0-187		EDTC-B	SKK-5169-EDTCB	
Output DLIS Files					
DEFAULT	NGS_HRLA_LDL_011LUP	FN:12	PRODUCER	20-Oct-2019 00:29	
RTB	NGS_HRLA_LDL_011LUP	FN:13	PRODUCER	20-Oct-2019 00:29	

Company: International Ocean Discovery Program				Well: Expedition 385, Site U1547B		
Output DLIS Files						
DEFAULT	NGS_HRLA_LDL_011LUP	FN:12	PRODUCER	20-Oct-2019 00:29	1911.1 M	1731.4 M
RTB	NGS_HRLA_LDL_011LUP	FN:13	PRODUCER	20-Oct-2019 00:29	1911.1 M	1731.4 M
OP System Version: 19C0-187						
HNGC-B	19C0-187		HNGS-BA	19C0-187		
HRLT-B	19C0-187		HLDS	19C0-187		
LDSC-B	19C0-187		EDTC-B	SKK-5169-EDTCB		

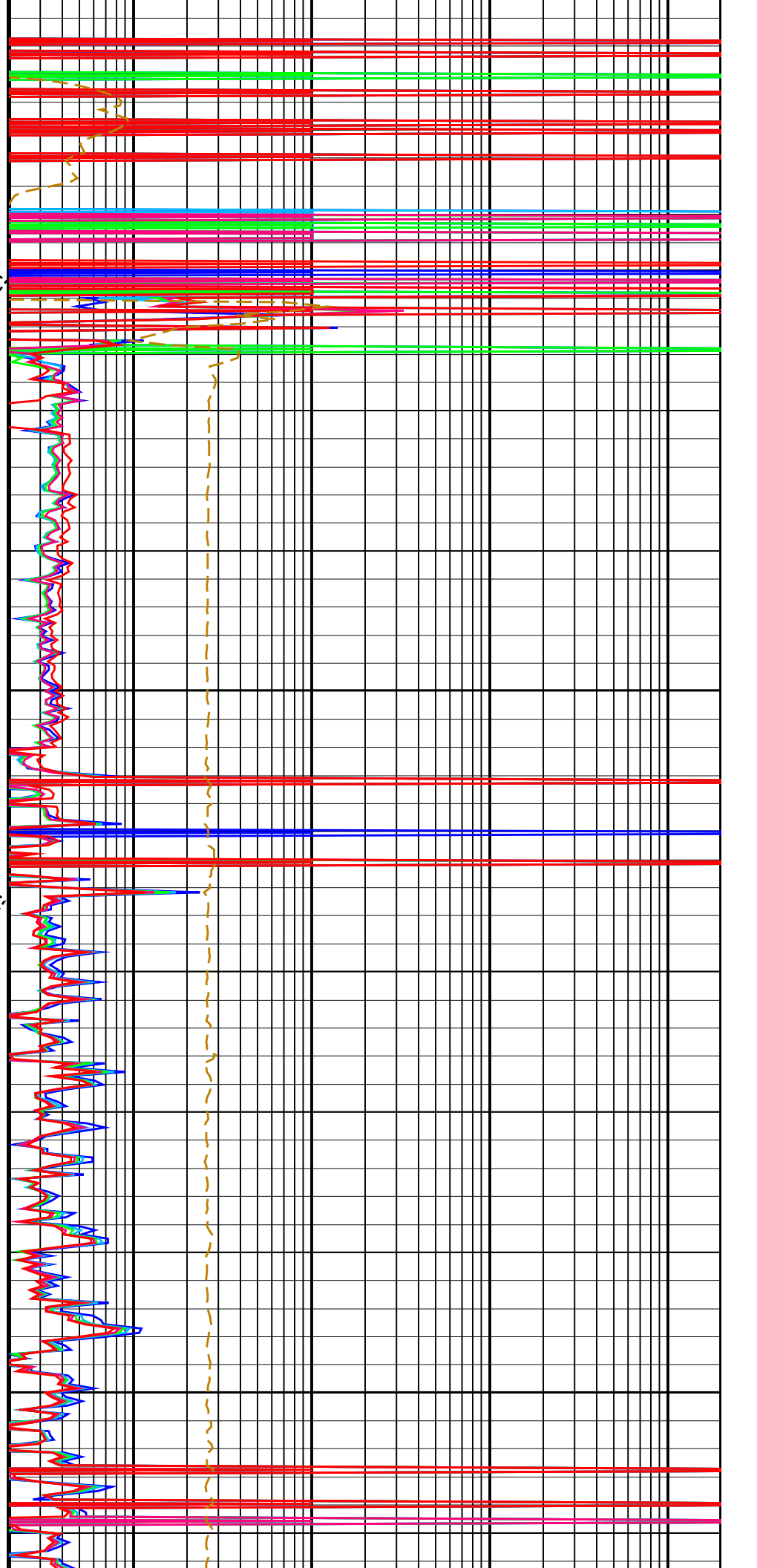


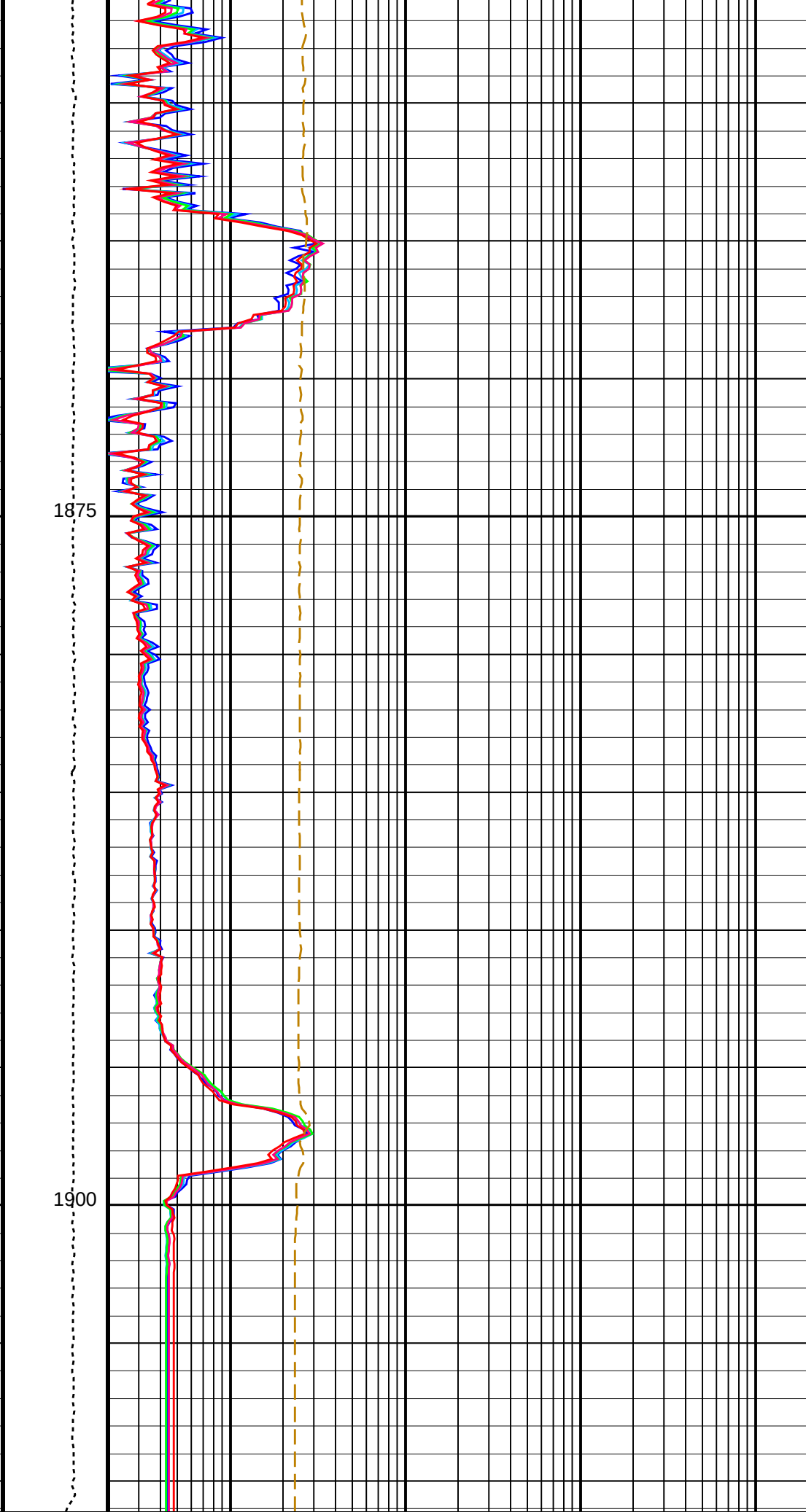
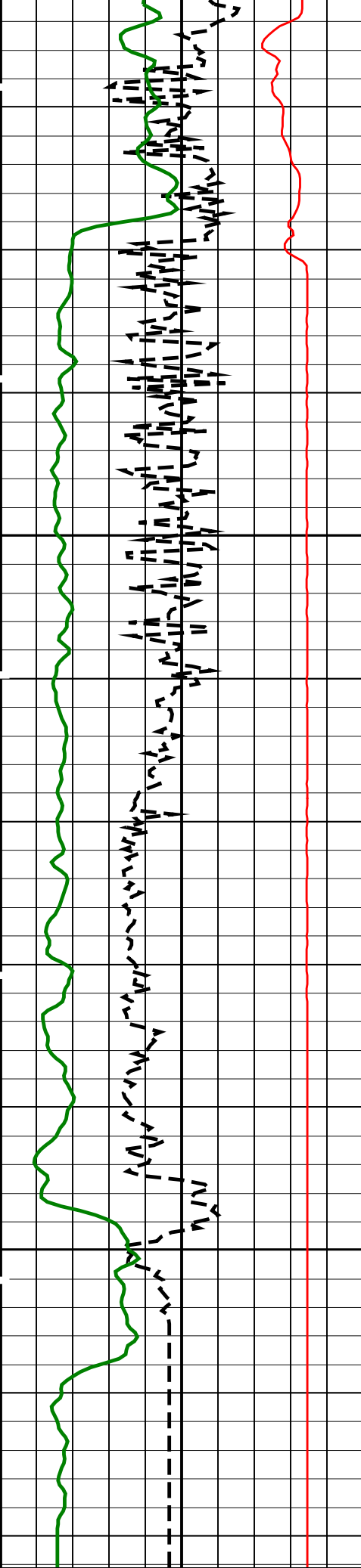




1825

1850





HDDS Caliper (LCAL)		(TENS) (LBF)	HRLT Resistivity 1 (RLA1)	
0	(IN)		20	0.2 (OHMM) 2000
Invasion Diameter (DI_HRLT)			HRLT Resistivity 2 (RLA2)	
0	(IN)		50	0.2 (OHMM) 2000
HNGS Spectroscopy Gamma Ray (HSGR)			HRLT Resistivity 3 (RLA3)	
0	(GAPI)		150	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		
HNGS-BA: Hostile Natural Gamma Ray Sonde				
BAR1	HNGS Detector 1 Barite Constant	1		
BAR2	HNGS Detector 2 Barite Constant	1		
BHK	HNGS Borehole Potassium Correction Concentration	0		
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
CSD1	Inner Casing Outer Diameter	0	IN	
CSD2	Outer Casing Outer Diameter	0	IN	
CSW1	Inner Casing Weight	0	LB/F	
CSW2	Outer Casing Weight	0	LB/F	
DBCC	HNGS Barite Constant Correction Flag	NONE		
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW		
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW		
HABK	HNGS Borehole Potassium Running Average	-0.00199192		
HALF	HNGS Alpha Filter Length	60	IN	
HCRB	HNGS Apply Borehole Potassium Correction	NONE		
HMWM	Mud Weighting Material	BARI		
HNPE	HNGS Processing Enable	YES		
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES		
SHT	Surface Hole Temperature	55	DEGF	
TPOS	Tool Position	CENT		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00079		
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04584		
HRLT-B: High Resolution Laterolog Array - B				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
KFAC_HRLT	HRLT K Factor Option	SONDE		
PROCINV	Inversion Selection	ON		
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO		
PROCMSO	Mechanical Standoff Fin Size	0	IN	
PROCRM	Processing Mud Resistivity Select	HRLT_Compute		
PROCSP0	Sonde Position	Centered		
SHT	Surface Hole Temperature	55	DEGF	
EDTC-B: Enhanced DTS Cartridge				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
GCSE	Generalized Caliper Selection	LCAL		
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	55	DEGF	
System and Miscellaneous				
BS	Bit Size	11 438	IN	

DFD	Drilling Fluid Density	1.05	G/C3
MST	Mud Sample Temperature	23.00	DEGC
TD	Total Depth	12409.8	FT

Format: HRLT	Vertical Scale: 1:200	Graphics File Created: 20-Oct-2019 00:29
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OP System Version: 19C0-187			
HNGC-B	19C0-187	HNGS-BA	19C0-187
HRLT-B	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

Output DLIS Files			
DEFAULT	NGS_HRLA_LDL_011LUP	FN:12	PRODUCER 20-Oct-2019 00:29
RTB	NGS_HRLA_LDL_011LUP	FN:13	PRODUCER 20-Oct-2019 00:29

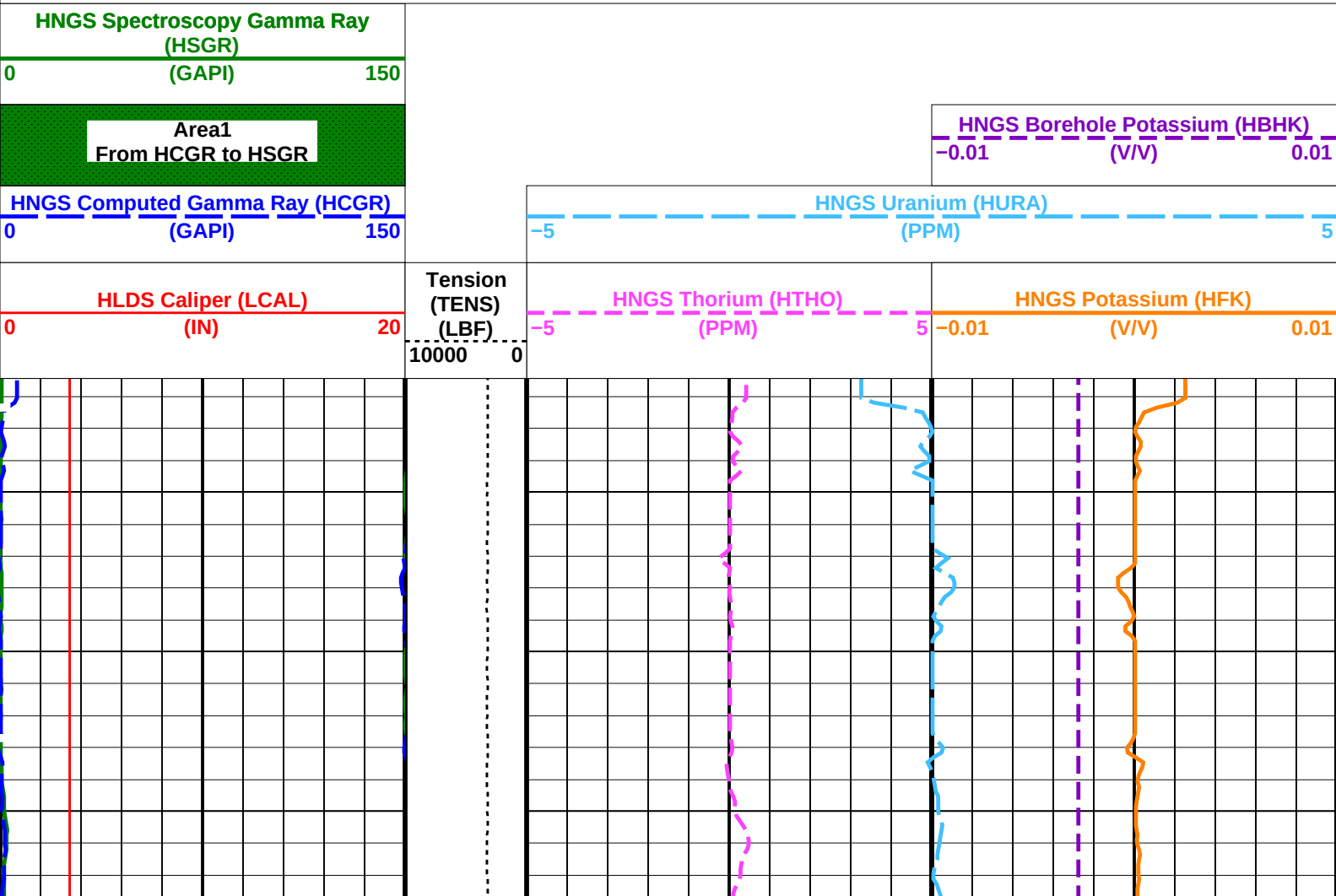
Company: International Ocean Discovery Program	Well: Expedition 385, Site U1547B
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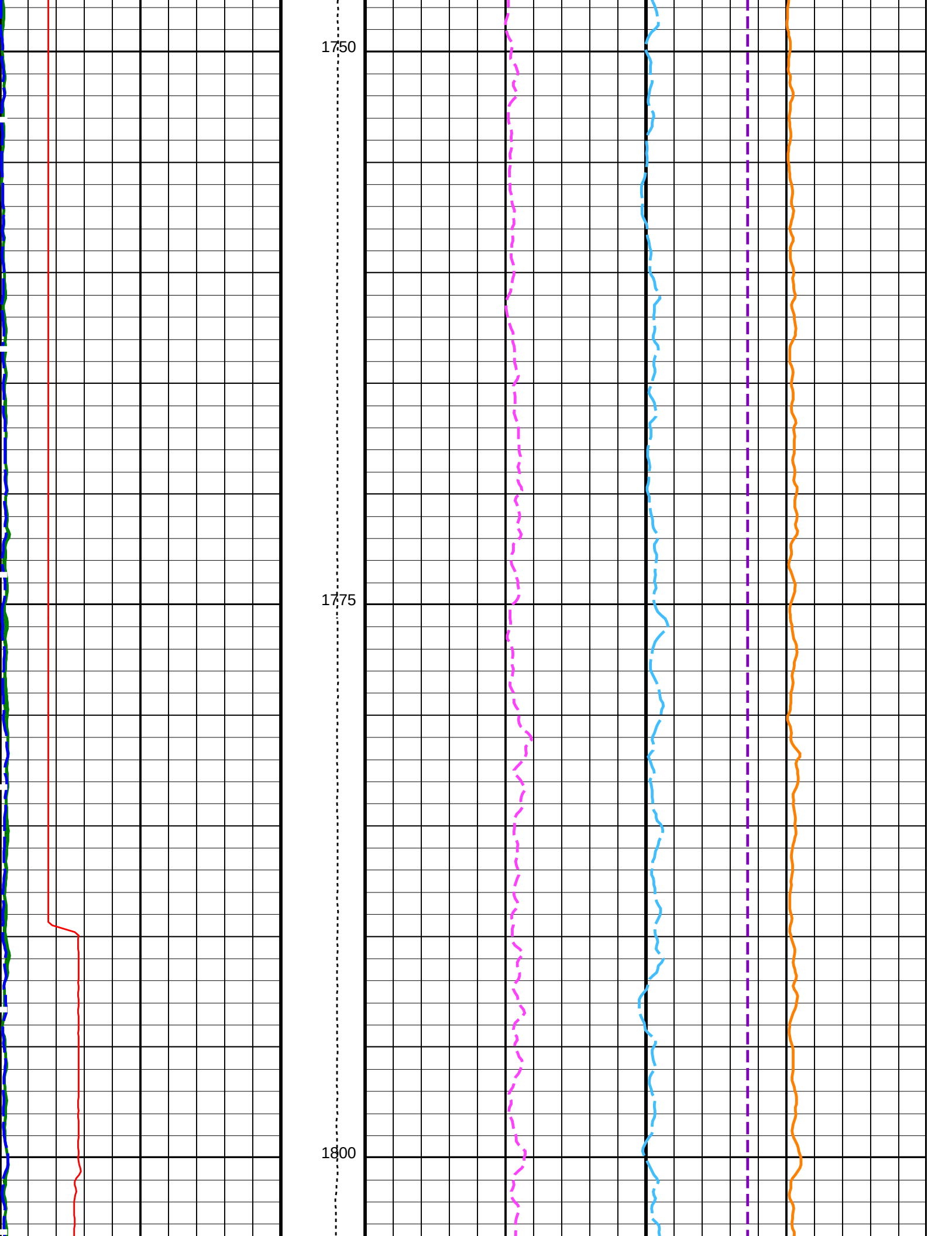
Output DLIS Files			
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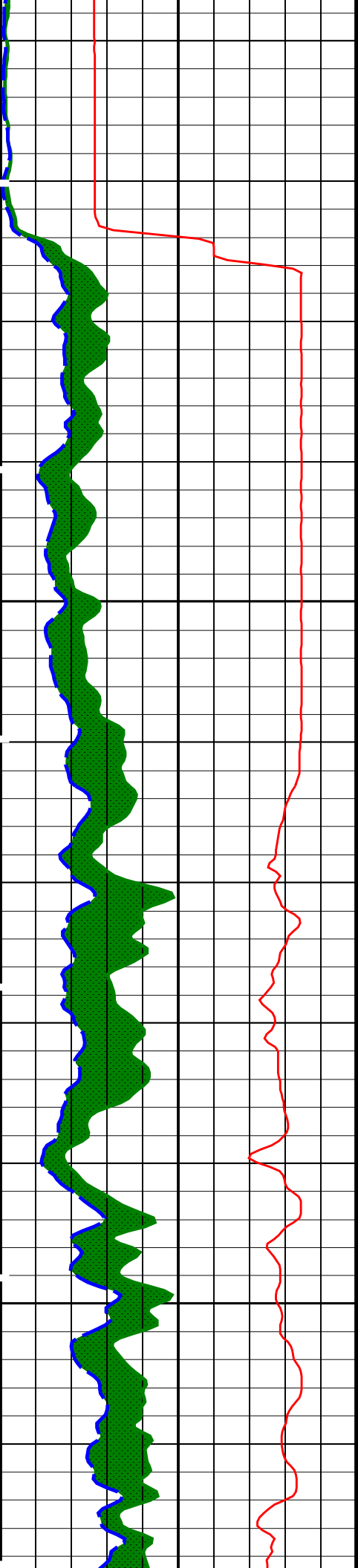
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HNGC-B	19C0-187	HNGS-BA	19C0-187
HRLT-B	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

☐ Time Mark Every 60 S

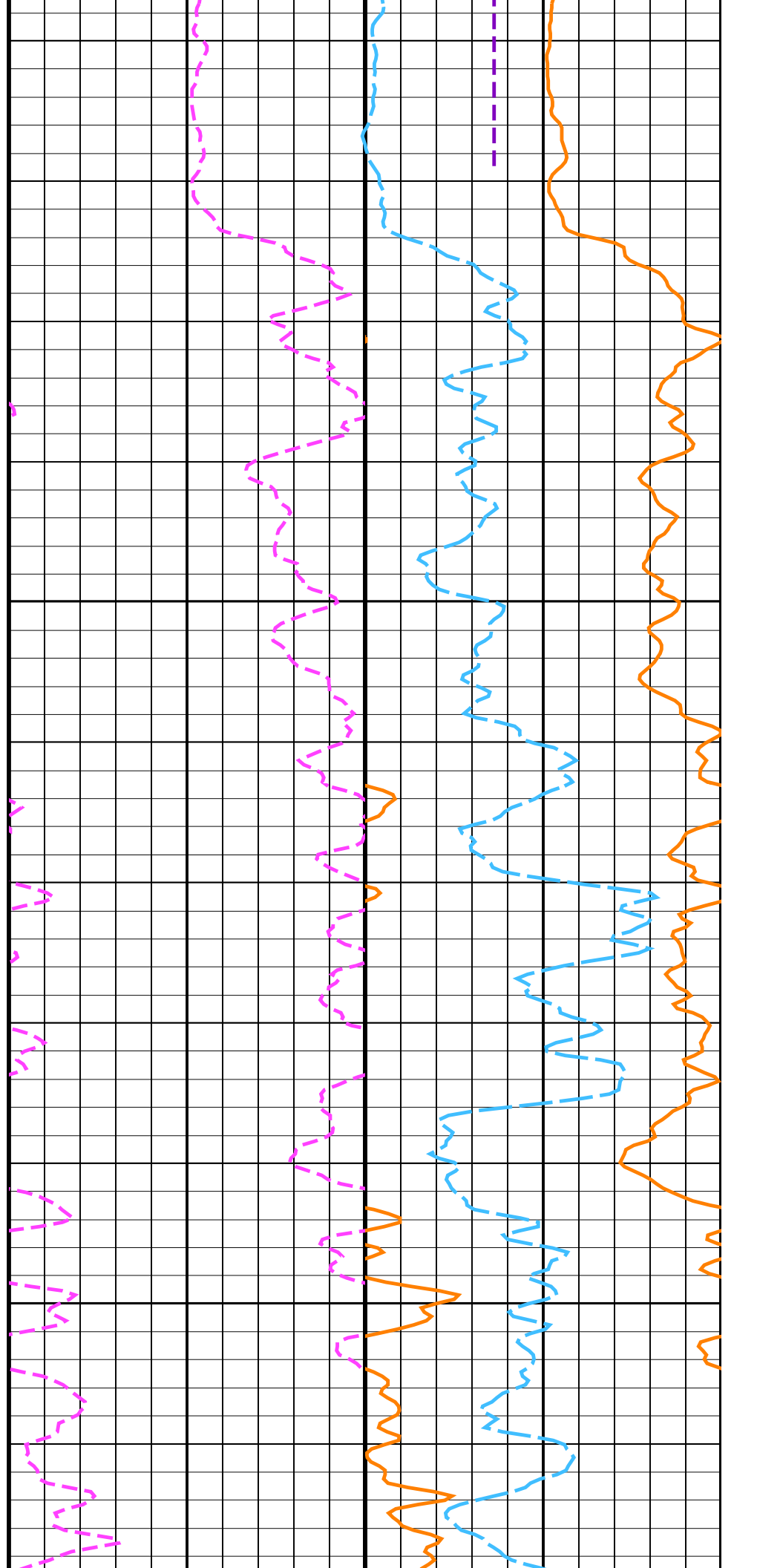


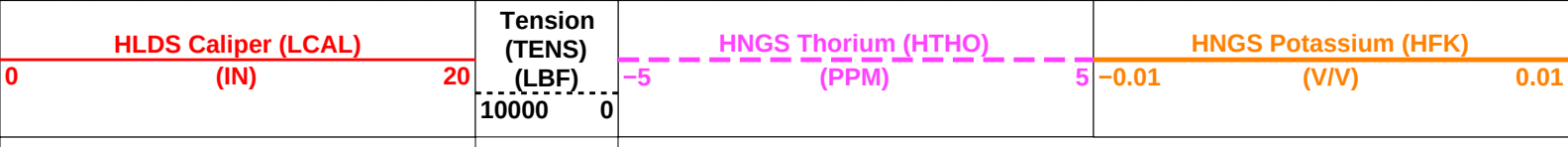
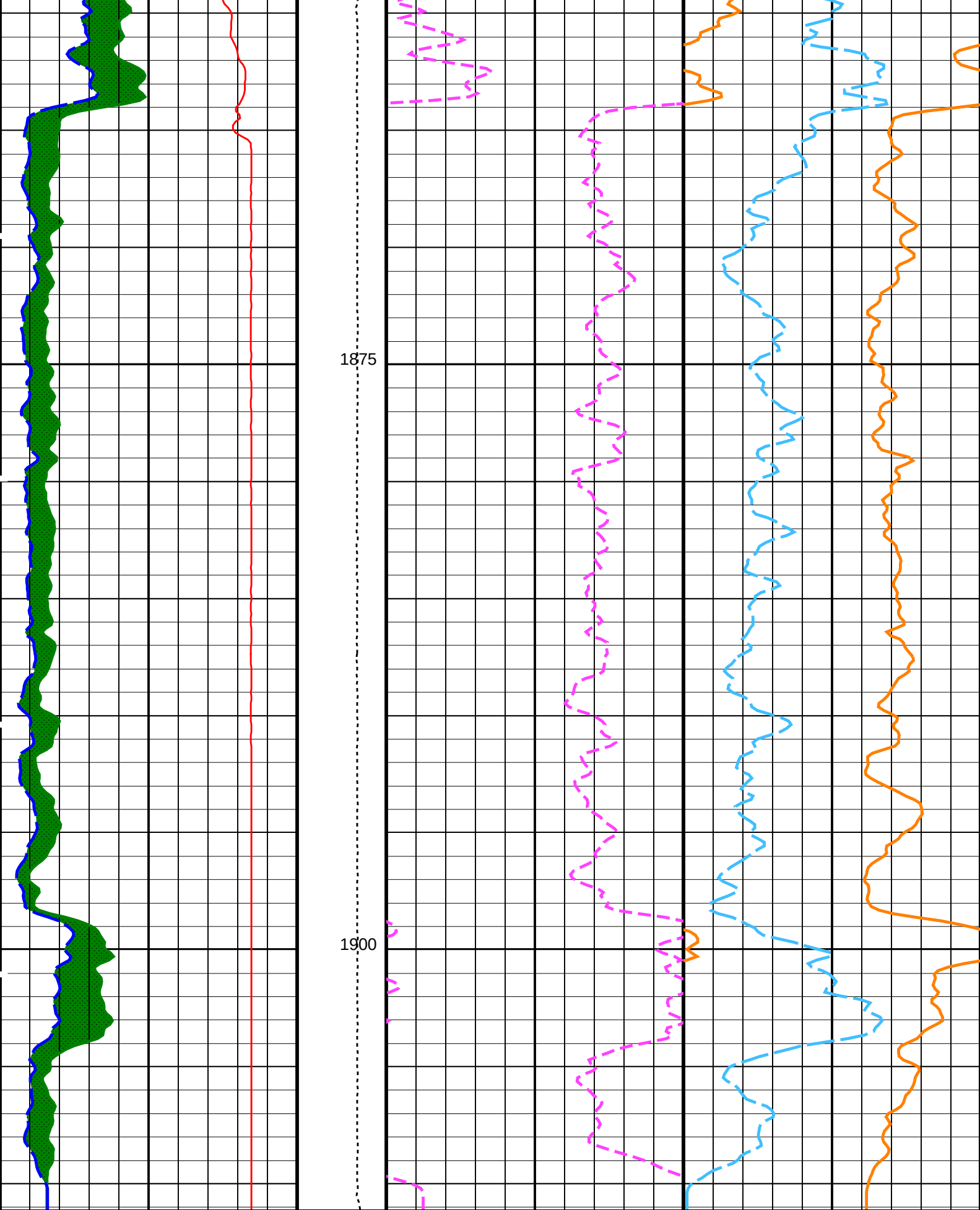




1825

1850





HNGS Computed Gamma Ray (HCGR)			HNGS Uranium (HORA)		
0	(GAPI)	150	-5	(PPM)	5
Area1 From HCGR to HSGR			HNGS Borehole Potassium (HBHK)		
HNGS Spectroscopy Gamma Ray (HSGR)			-0.01 (V/V) 0.01		
0	(GAPI)	150			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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	-0.00199192	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	CENT	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00079	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04584	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.05	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 20-Oct-2019 00:29

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT	NGS_HRLA_LDL_011LUP	FN:12	PRODUCER	20-Oct-2019 00:29
RTB	NGS_HRLA_LDL_011LUP	FN:13	PRODUCER	20-Oct-2019 00:29

Schlumberger

Calibrations

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 18-Aug-2019 11:27 Before: 19-Oct-2019 23:00 After: 20-Oct-2019 1:59							
Na 511 Peak Loc	40.00	39.62	39.43	39.47	0.04618	1.000	
Na 511 Peak Res	15.50	14.85	16.84	16.22	-0.6232	2.000	%
High Voltage	1150	1182	1217	1219	2.030	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.0	142.1	0.1372	7.000	
Na 1785 Peak Res	8.500	8.521	8.168	9.317	1.149	2.000	%
Temperature	15.50	18.29	34.75	34.03	-0.7224	N/A	DEGC
Na Count Rate	45.00	17.57	14.89	15.02	0.1274	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 18-Aug-2019 11:27 Before: 19-Oct-2019 23:00 After: 20-Oct-2019 1:59							
Na 511 Peak Loc	40.00	39.65	39.61	39.70	0.09071	1.000	
Na 511 Peak Res	15.50	15.15	16.71	15.78	-0.9366	2.000	%
High Voltage	1150	1105	1145	1144	-0.8787	N/A	V
Na 1785 Peak Loc	142.6	141.6	140.9	142.8	1.857	7.000	
Na 1785 Peak Res	8.500	8.425	9.812	9.514	-0.2986	2.000	%
Temperature	15.50	18.67	35.23	35.92	0.6889	N/A	DEGC
Na Count Rate	45.00	17.43	14.86	15.09	0.2271	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 18-Aug-2019 11:27 Before: 19-Oct-2019 23:00 After: 20-Oct-2019 1:59							
Coincidence Count Rate Ratio	1.000	1.008	1.003	0.9953	-0.007683	0.05000	
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-318.7	-318.4	0.3420	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-333.5	-330.0	3.414	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-340.8	-337.7	3.152	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-330.8	-328.7	2.178	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-320.4	-319.5	0.9083	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-322.2	-321.5	0.6760	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	323.8	319.4	-4.382	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1743	1739	-4.582	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1831	1810	-20.61	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1864	1845	-19.61	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1808	1793	-14.44	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1750	1742	-7.327	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1761	1754	-6.525	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1786	-1760	26.14	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55							
HRLT M2-M3 Voltage Plus – 0	0	N/A	1734	1730	-3.435	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1832	1812	-20.09	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1867	1848	-18.61	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1814	1800	-13.49	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1750	1744	-6.315	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1762	1757	-5.069	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1776	-1750	25.42	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55							
HRLT A3-A4 Voltage Plus – 0	0	N/A	68710	68590	-117.3	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	72410	71660	-748.9	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	74090	73390	-699.1	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	72280	71770	-508.5	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	69690	69440	-244.0	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	70150	69950	-198.1	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-69210	-68230	976.9	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55							
HRLT A4-A5 Voltage Plus – 0	0	N/A	68800	68670	-130.5	2100	UV

HRLT A4-A5 Voltage Plus -	1	0	N/A	72620	71870	-757.1	2100	UV
HRLT A4-A5 Voltage Plus -	2	0	N/A	74270	73570	-697.5	2100	UV
HRLT A4-A5 Voltage Plus -	3	0	N/A	72430	71900	-526.8	2100	UV
HRLT A4-A5 Voltage Plus -	4	0	N/A	69790	69550	-244.7	2100	UV
HRLT A4-A5 Voltage Plus -	5	0	N/A	70250	70060	-195.5	2100	UV
HRLT A4-A5 Voltage Plus -	6	0	N/A	-69420	-68430	981.2	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55								
HRLT A5-A6 Voltage Plus -	0	0	N/A	68660	68520	-139.9	2100	UV
HRLT A5-A6 Voltage Plus -	1	0	N/A	72450	71680	-769.9	2100	UV
HRLT A5-A6 Voltage Plus -	2	0	N/A	74130	73410	-718.0	2100	UV
HRLT A5-A6 Voltage Plus -	3	0	N/A	72290	71770	-511.6	2100	UV
HRLT A5-A6 Voltage Plus -	4	0	N/A	69650	69420	-227.3	2100	UV
HRLT A5-A6 Voltage Plus -	5	0	N/A	70130	69950	-187.0	2100	UV
HRLT A5-A6 Voltage Plus -	6	0	N/A	-69260	-68280	976.9	2100	UV
HRLT A5-A6 Voltage Plus -	7	0	N/A	70000	70000	0	2100	UV
High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP								
Before: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55								
HRLT Torpedo-M0 Voltage -	0	0	N/A	-68170	-68050	119.8	2100	UV
HRLT Torpedo-M0 Voltage -	1	0	N/A	-72260	-71500	761.5	2100	UV
HRLT Torpedo-M0 Voltage -	2	0	N/A	-73960	-73260	705.4	2100	UV
HRLT Torpedo-M0 Voltage -	3	0	N/A	-72180	-71660	517.9	2100	UV
HRLT Torpedo-M0 Voltage -	4	0	N/A	-69590	-69370	224.0	2100	UV
HRLT Torpedo-M0 Voltage -	5	0	N/A	-70060	-69870	187.3	2100	UV
HRLT Torpedo-M0 Voltage -	6	0	N/A	69020	68040	-975.5	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55								
HRLT Bridle#9-M0 Voltage -	0	0	N/A	-68200	-68090	111.4	2100	UV
HRLT Bridle#9-M0 Voltage -	1	0	N/A	-72340	-71590	756.3	2100	UV
HRLT Bridle#9-M0 Voltage -	2	0	N/A	-74050	-73330	715.6	2100	UV
HRLT Bridle#9-M0 Voltage -	3	0	N/A	-72250	-71750	506.3	2100	UV
HRLT Bridle#9-M0 Voltage -	4	0	N/A	-69640	-69420	222.1	2100	UV
HRLT Bridle#9-M0 Voltage -	5	0	N/A	-70090	-69920	171.3	2100	UV
HRLT Bridle#9-M0 Voltage -	6	0	N/A	69110	68130	-970.5	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55								
HRLT Source Current Plus -	0	0	N/A	284.5	284.1	-0.3832	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: 19-Oct-2019 22:56 After: 20-Oct-2019 1:55								
HRLT Vertical Voltage PI -	0	0	N/A	-320.7	-320.0	0.6569	9.681	UV
HRLT Vertical Voltage PI -	1	0	N/A	-328.3	-324.8	3.499	9.681	UV
HRLT Vertical Voltage PI -	2	0	N/A	-334.4	-331.1	3.333	9.681	UV
HRLT Vertical Voltage PI -	3	0	N/A	-322.7	-320.3	2.414	9.681	UV
HRLT Vertical Voltage PI -	4	0	N/A	-309.6	-308.5	1.086	9.681	UV
HRLT Vertical Voltage PI -	5	0	N/A	-326.4	-325.3	1.005	9.681	UV
HRLT Vertical Voltage PI -	6	0	N/A	331.6	327.0	-4.586	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: 15-Sep-2019 23:19 Before: 19-Oct-2019 22:59 After: 20-Oct-2019 1:58								
SS Cs Resolution Bkg	9.000	7.680	7.700	7.796	0.09583	1.800	%	
LS Cs Resolution Bkg	9.000	8.050	8.108	7.991	-0.1180	1.800	%	
LSW1 Background	100.0	75.18	73.73	72.68	-1.047	3.000	CPS	
LSW2 Background	100.0	67.04	66.63	65.10	-1.529	3.000	CPS	
LSW3 Background	200.0	153.1	152.0	150.7	-1.264	6.000	CPS	
LSW4 Background	250.0	189.4	189.6	189.3	-0.2841	7.500	CPS	
LSW5 Background	600.0	443.7	439.2	439.6	0.4048	18.00	CPS	
SSW1 Background	100.0	70.74	72.51	70.76	-1.750	3.000	CPS	
SSW2 Background	200.0	123.8	122.9	121.3	-1.607	6.000	CPS	
SSW3 Background	500.0	346.2	342.6	341.7	-0.8707	15.00	CPS	
SSW4 Background	270.0	186.3	185.6	184.2	-1.374	8.100	CPS	
SSW5 Background	200.0	133.6	131.9	131.9	-0.02049	6.000	CPS	

LSW2 Aluminum	900.0	639.9	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	778.3	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	390.9	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	352.6	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2108	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5854	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8164	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3223	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	362.0	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement

Master: 15-Sep-2019 23:40

LSW1 Iron	400.0	296.9	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	519.2	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	689.9	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	358.0	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	325.8	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1539	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4888	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7459	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	2955	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	319.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration

Before: 16-Sep-2019 1:59

HLDS Caliper Small Ring	12.00	N/A	16.19	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.31	N/A	N/A	N/A	IN

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 19-Oct-2019 22:55

EDTC Z-Axis Acceleration	9.810	N/A	9.748	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 19-Oct-2019 22:56 After: 20-Oct-2019 1:56

Gamma Ray (Jig – Bkg)	131.7	N/A	131.7	128.7	-2.967	11.97	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	161.3	-3.718	15.00	GAPI

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge

HNGC – B

304

Auxiliary Equipment:

HNGC Housing

HNGH – A

3

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde

HNGS – BA

99

Auxiliary Equipment:

HNGS Sonde Housing

HNSH – BA

102

Gamma Source Radioactive

GSR – U

6098

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Na 511 Peak Loc			Value	Na 511 Peak Res %			Value	High Voltage V			Value	
Phase				Phase				Phase				
Master			39.62	Master			14.85	Master			1182	
Before			39.43	Before			16.84	Before			1217	
After			39.47	After			16.22	After			1219	
37.50 (Minimum)			40.00 (Nominal)	12.00 (Minimum)			15.50 (Nominal)	900.0 (Minimum)			1150 (Nominal)	1600 (Maximum)
135.0 (Minimum)			142.6 (Nominal)	7.000 (Minimum)			8.500 (Nominal)	-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)
Phase				Phase				Phase				
Master			142.6	Master			8.521	Master			18.29	
Before			142.0	Before			8.168	Before			34.75	
After			142.1	After			9.317	After			34.03	
135.0 (Minimum)			142.6 (Nominal)	7.000 (Minimum)			8.500 (Nominal)	-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)

Phase	Na Count Rate CPS		Value	
Master			17.57	
Before			14.89	
After			15.02	
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)				
Master: 18-Aug-2019 11:27				Before: 19-Oct-2019 23:00
				After: 20-Oct-2019 1:59

Hostile Natural Gamma Ray Sonde Wellsite Calibration																
Detector 2 Check																
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value					
Master			39.65	Master			15.15	Master			1105					
Before			39.61	Before			16.71	Before			1145					
After			39.70	After			15.78	After			1144					
37.50 (Minimum)			40.00 (Nominal)	43.50 (Maximum)			12.00 (Minimum)			15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)			1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value					
Master			141.6	Master			8.425	Master			18.67					
Before			140.9	Before			9.812	Before			35.23					
After			142.8	After			9.514	After			35.92					
135.0 (Minimum)			142.6 (Nominal)	150.3 (Maximum)			7.000 (Minimum)			8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)			15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS		Value													
Master			17.43													
Before			14.86													
After			15.09													
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)				
Master: 18-Aug-2019 11:27				Before: 19-Oct-2019 23:00				After: 20-Oct-2019 1:59								

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.008
Before		1.003
After		0.9953
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 18-Aug-2019 11:27		
Before: 19-Oct-2019 23:00		
After: 20-Oct-2019 1:59		

High Resolution Laterolog Array – B / Equipment Identification		
Primary Equipment:		
HRLT Sonde	HRLS – B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	1869
HRLT Lower Cartridge	HRLC – B	974
HRLT upper Housing	HRUH – B	975
HRLT Upper Cartridge	HRUC – B	964

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT M01							
Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-318.7	-322.7	-280.7	-379.7	
	After		-318.4				
	Before		-333.5				

1	After		-330.0	-322.7	-280.7	-379.7
2	Before		-340.8	-322.7	-280.7	-379.7
	After		-337.7			
3	Before		-330.8	-322.7	-280.7	-379.7
	After		-328.7			
4	Before		-320.4	-322.7	-280.7	-379.7
	After		-319.5			
5	Before		-322.2	-322.7	-280.7	-379.7
	After		-321.5			
6	Before		323.8	322.7	379.7	280.7
	After		319.4			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1743	1781	2095	1549
	After		1739			
1	Before		1831	1781	2095	1549
	After		1810			
2	Before		1864	1781	2095	1549
	After		1845			
3	Before		1808	1781	2095	1549
	After		1793			
4	Before		1750	1781	2095	1549
	After		1742			
5	Before		1761	1781	2095	1549
	After		1754			
6	Before		-1786	-1781	-1549	-2095
	After		-1760			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1734	1781	2095	1549
	After		1730			
1	Before		1832	1781	2095	1549
	After		1812			
2	Before		1867			
	After					

2	After		1848	1781	2095	1549
3	Before		1814	1781	2095	1549
	After		1800			
4	Before		1750	1781	2095	1549
	After		1744			
5	Before		1762	1781	2095	1549
	After		1757			
6	Before		-1776	-1781	-1549	-2095
	After		-1750			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3-A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68710	70000	82360	60900
	After		68590			
1	Before		72410	70000	82360	60900
	After		71660			
2	Before		74090	70000	82360	60900
	After		73390			
3	Before		72280	70000	82360	60900
	After		71770			
4	Before		69690	70000	82360	60900
	After		69440			
5	Before		70150	70000	82360	60900
	After		69950			
6	Before		-69210	-70000	-60900	-82360
	After		-68230			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4-A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68800	70000	82360	60900
	After		68670			
1	Before		72620	70000	82360	60900
	After		71870			
2	Before		74270	70000	82360	60900
	After		73570			
3	Before		72430			

3	After		71900	70000	82360	60900
4	Before		69790	70000	82360	60900
	After		69550			
5	Before		70250	70000	82360	60900
	After		70060			
6	Before		-69420	-70000	-60900	-82360
	After		-68430			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68660	70000	82360	60900
	After		68520			
1	Before		72450	70000	82360	60900
	After		71680			
2	Before		74130	70000	82360	60900
	After		73410			
3	Before		72290	70000	82360	60900
	After		71770			
4	Before		69650	70000	82360	60900
	After		69420			
5	Before		70130	70000	82360	60900
	After		69950			
6	Before		-69260	-70000	-60900	-82360
	After		-68280			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68170	-70000	-60900	-82360
	After		-68050			
1	Before		-72260	-70000	-60900	-82360
	After		-71500			
2	Before		-73960	-70000	-60900	-82360
	After		-73260			
3	Before		-72180	-70000	-60900	-82360
	After		-71660			
4	Before		-69590			
	After					

5	Before		281.1	281.1	330.7	244.4
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: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.7	-322.7	-280.7	-379.7
	After		-320.0			
1	Before		-328.3	-322.7	-280.7	-379.7
	After		-324.8			
2	Before		-334.4	-322.7	-280.7	-379.7
	After		-331.1			
3	Before		-322.7	-322.7	-280.7	-379.7
	After		-320.3			
4	Before		-309.6	-322.7	-280.7	-379.7
	After		-308.5			
5	Before		-326.4	-322.7	-280.7	-379.7
	After		-325.3			
6	Before		331.6	322.7	379.7	280.7
	After		327.0			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 19-Oct-2019 22:56						
After: 20-Oct-2019 1:55						

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		7.680	Master		8.050	Master		75.18	
Before		7.700	Before		8.108	Before		73.73	
After		7.796	After		7.991	After		72.68	
7.000 (Minimum)		9.000 (Nominal)	7.000 (Minimum)		9.000 (Nominal)	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		67.04	Master		153.1	Master		189.4
Before		66.63	Before		152.0	Before		189.6
After		65.10	After		150.7	After		189.3
50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)			140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)		
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		443.7	Master		70.74	Master		123.8
Before		439.2	Before		72.51	Before		122.9
After		439.6	After		70.76	After		121.3
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		346.2	Master		186.3	Master		133.6
Before		342.6	Before		185.6	Before		131.9
After		341.7	After		184.2	After		131.9
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: 15-Sep-2019 23:19			Before: 19-Oct-2019 22:59			After: 20-Oct-2019 1:58		

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC – B	521
Auxiliary Equipment:		
LDSC Housing	LDSh – A	319

Enhanced DTS Cartridge / Equipment Identification

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

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.748
9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)		
Before: 19-Oct-2019 22:55		

Enhanced DTS Cartridge Wellsite Calibration								
Detector Calibration								
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig – Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		1.779	Before		131.7	Before		165.0
After		9.013	After		128.7	After		161.3
0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			119.7 (Minimum) 131.7 (Nominal) 143.6 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		
Before: 19-Oct-2019 22:56			After: 20-Oct-2019 1:56					

Company: International Ocean Discovery Program

Schlumberger

Well: Expedition 385, Site U1547B

Field: Guaymas Basin Techtonics and Biosphere

Rig: JOIDES Resolution

Country: Mexico

High Resolution Laterolog Array (HRLA)

Natural Gamma Ray, Density (HNGS, HLDS)