



Company: Lamont Doherty Earth Observatory

Well: Expedition 340, Site U1397B
 Field: Lesser Antilles Volcanism and Landslides
 Rig: JOIDES Resolution Ocean: Caribbean

Run 1 Run 2 Run 3

RIG: JOIDES Resolution FIELD: Lesser Antilles Volcanism and Landslides LOCATION: Latitude: N 14° 54.41' WELL: Expedition 340, Site U1397B COMPANY: Lamont Doherty Earth Observatory	Lamont Doherty Magnetic Susceptibility (LDEO_MSS) Gamma Ray			
	Latitude: N 14° 54.41' Longitude: W 61° 25.35'		Elev.: K.B. -2492.90 m G.L. 0.00 m D.F. -2492.90 m	
	Permanent Datum: Sea Floor		Elev.: 0.00 m	
	Log Measured From: Sea Floor		0.00 m above Perm. Datum	
	Drilling Measured From: Sea Floor			
API Serial No.	Max. Hole Devi. 0 deg	Longitude W 61° 25.35	Latitude N 14° 54.41'	

Logging Date	23-Mar-2012		
Run Number	1		
Depth Driller	253 m		
Schlumberger Depth	223 m		
Bottom Log Interval	223 m		
Top Log Interval	0 m		
Casing Driller Size @ Depth	13.375 in	@	81 m
Casing Schlumberger	80 m		
Bit Size	11.438 in		
Type Fluid In Hole	Seawater		
MUD Density	Viscosity	1.078 g/cm3	
MUD Fluid Loss	PH		
MUD Source Of Sample	N/A		
RM @ Measured Temperature	@	@	
RMF @ Measured Temperature	@	@	
RMC @ Measured Temperature	@	@	
Source RMF	RMC	N/A	N/A
RM @ MRT	RMF @ MRT	@ 21	@ 21
Maximum Recorded Temperatures	21 degC		
Circulation Stopped	Time	23-Mar-2012	3:00
Logger On Bottom	Time	23-Mar-2012	8:18
Unit Number	Location	625003	Houston
Recorded By	K. Swain		
Witnessed By	A. Slagle, S. Morgan		

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		
MUD Fluid Loss	PH		
MUD 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			

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OTHER SERVICES1
 OS1: FMS
 OS2: DSI
 OS3: MSS
 OS4:
 OS5:

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

REMARKS: RUN NUMBER 1
 Hole drilled with APC/XCB coring bit and bottom hole assembly (BHA). 11 7/16" BS
 Lamont Magnetic Susceptibility (MSS) tool run in combination with HRLA/HLDS/HNGS
 4 knuckle joints decouple the eccentered HLDS and HNGS from the centered HRLA
 and MSS.
 LDEO_MSS tool provided by Lamont Doherty Earth Observatory-Columbia University.
 MSS provides only low resolution magnetic susceptibility sensor.
 Two MCD centralizer tools centralize the MSS and HRLA.
 Actual holesize is not known as the
 caliper was reading mostly at the maximum reach of the tool.

REMARKS: RUN NUMBER 2

RUN 1

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

LOGGED INTERVAL	START	STOP

RUN 2

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

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION




RUN 1

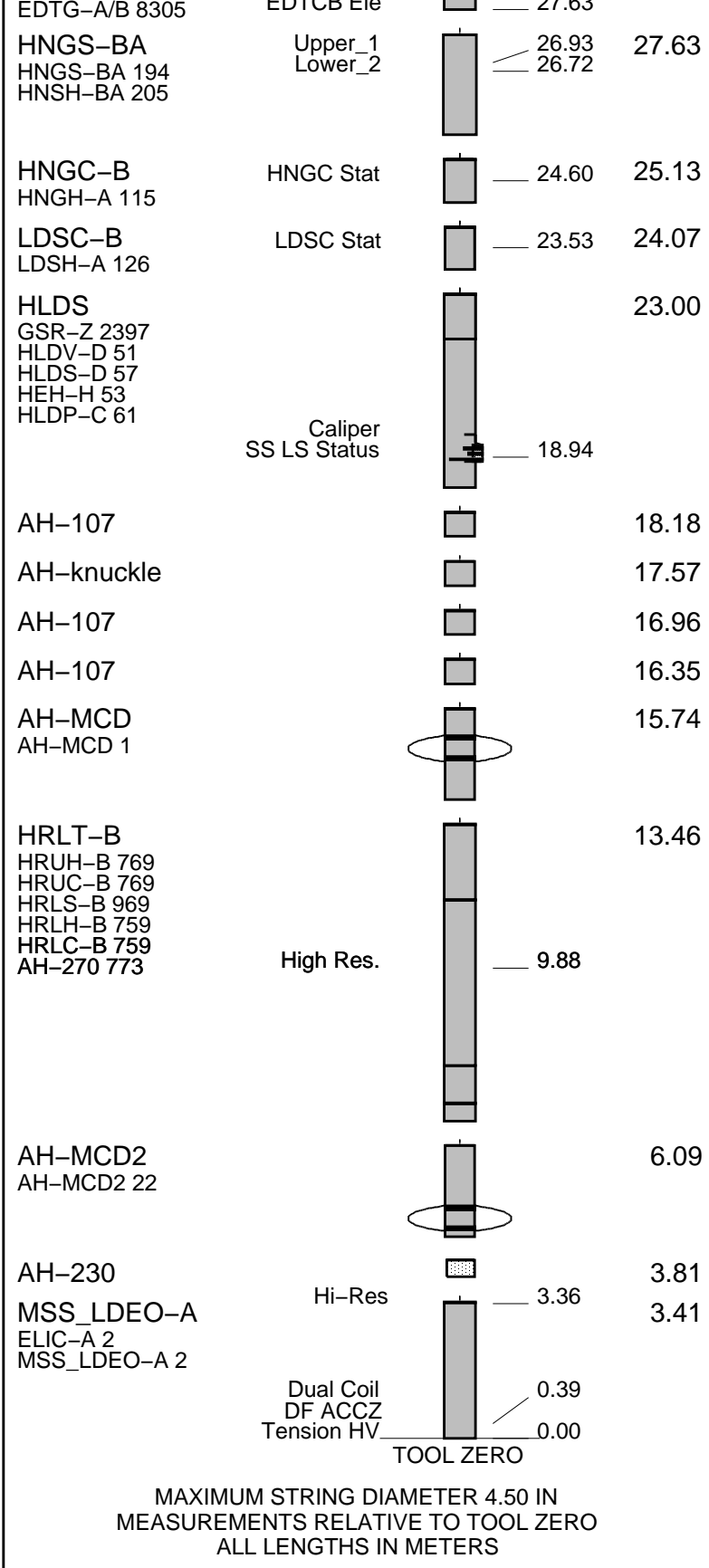
SURFACE EQUIPMENT

GSR-U 616008
 WITM (EDTS)-A 1

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT			30.94
LEH-QT 301			
AH-369	MDSB_EDTC		29.61
	Mud Tempe		28.55
	CTEM		27.98
EDTC-B	Gamma Ray		29.61
EDTH-B 8303	EFTB DIAG		
EDTC-B 8317	TelStatus		
	EDTC-Flu		27.62



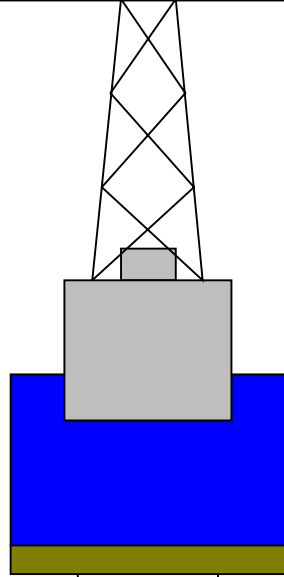
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

-2492.9
-2492.9

Mean Sea Level

-2481.9



4.1



0

3.80

Sea Floor

81

11.43

Open Hole

253

Total Depth

Input DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_040PUP FN:57 PRODUCER 24-Mar-2012 20:37 2713.5 M 2478.6 M

Output DLIS Files

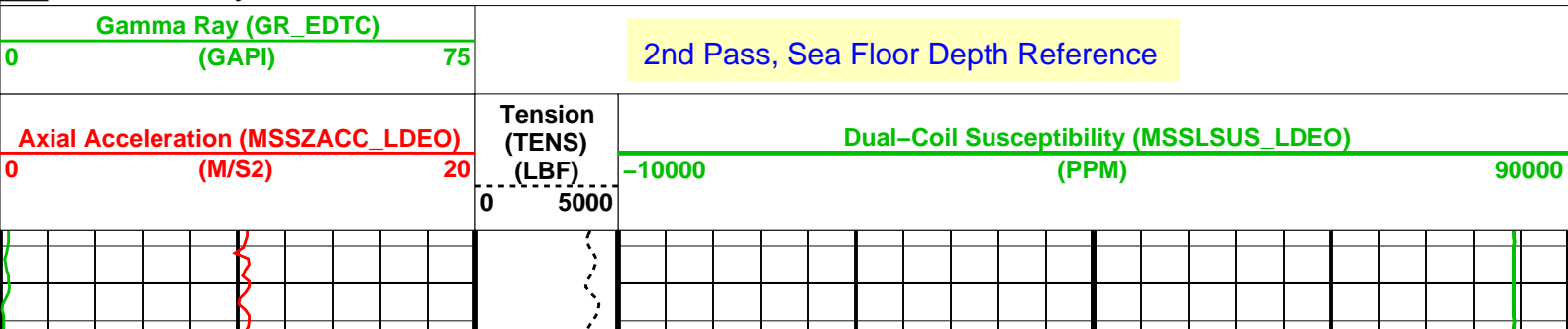
DEFAULT MSS_LDEO_HRLA_LDL_042PUP FN:59 PRODUCER 24-Mar-2012 20:46 224.0 M -11.4 M

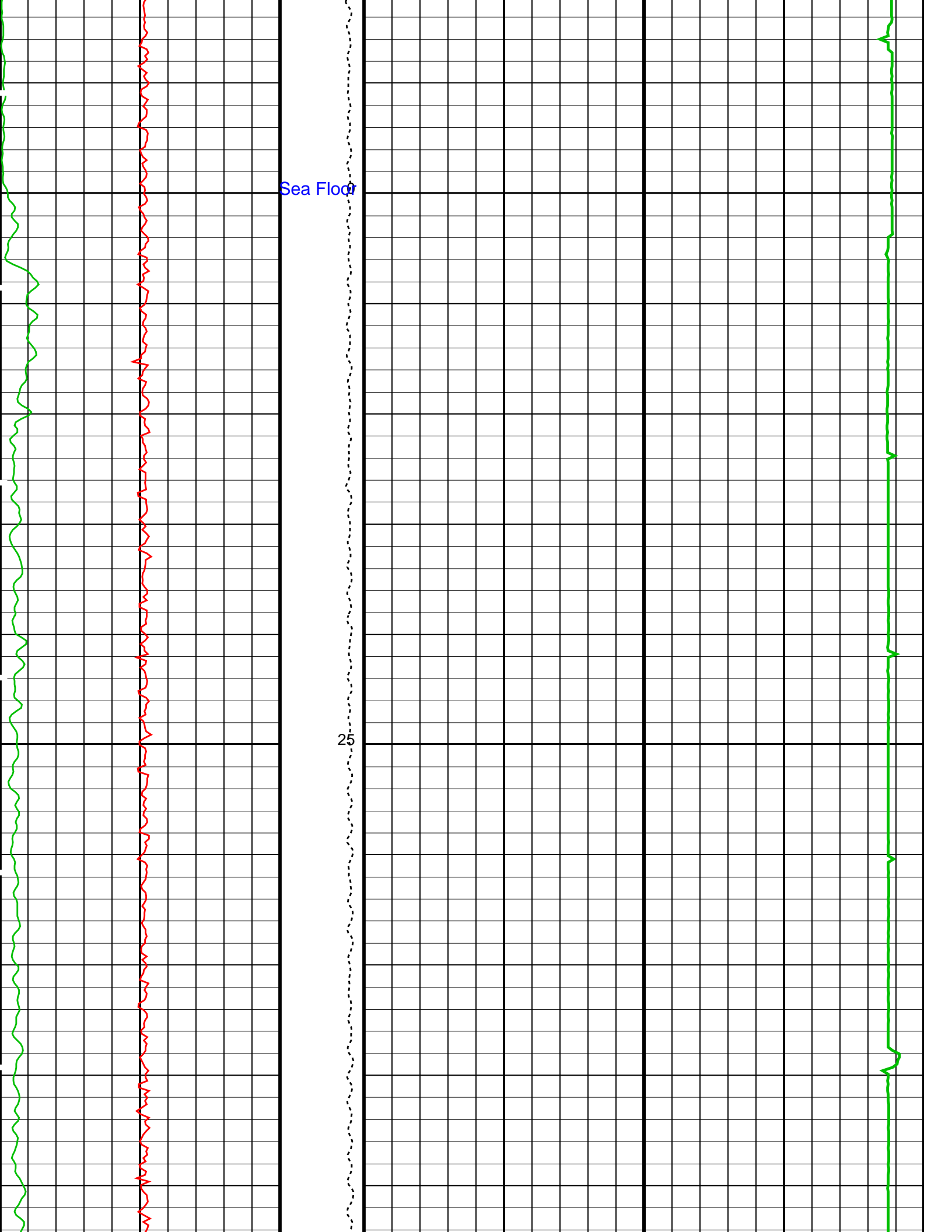
OP System Version: 19C0-187

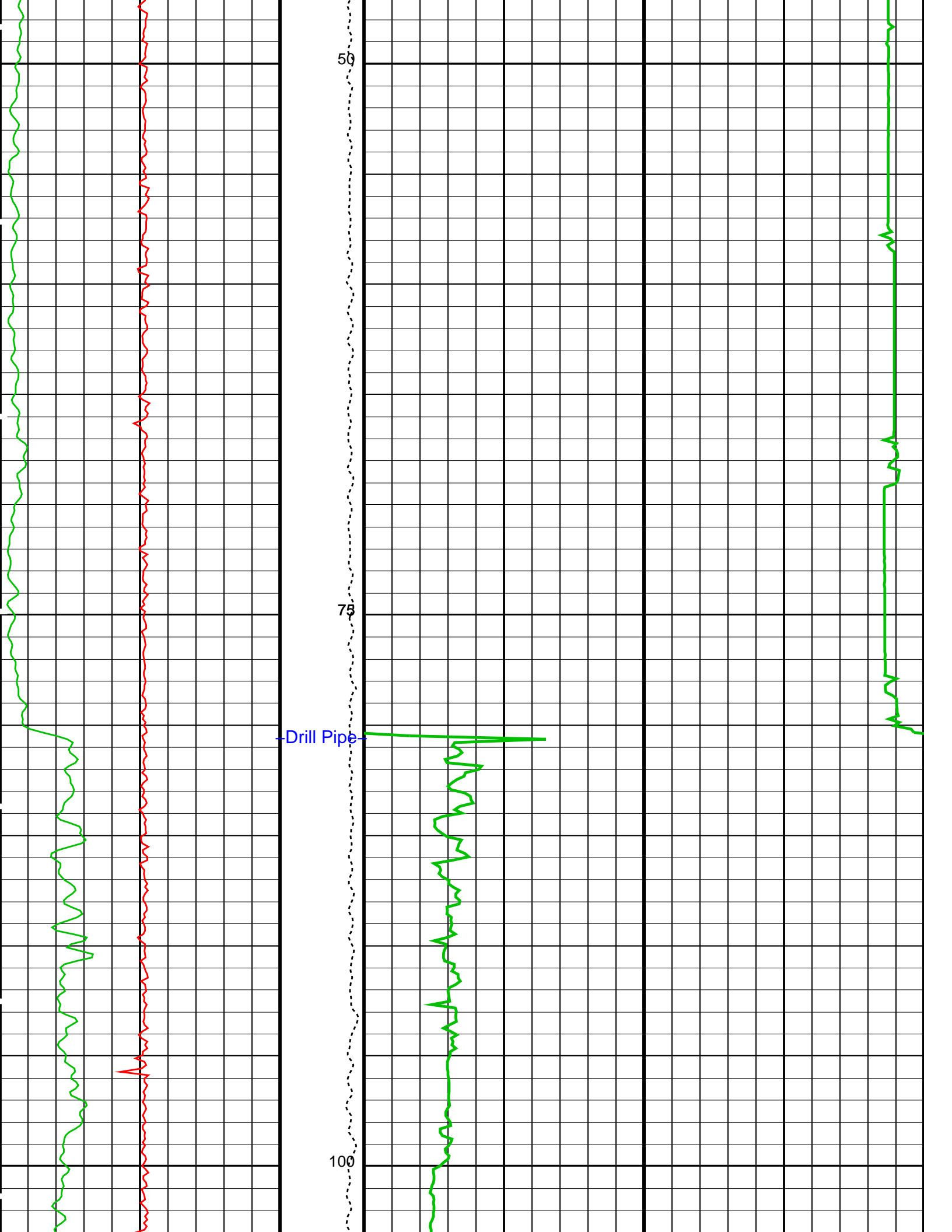
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

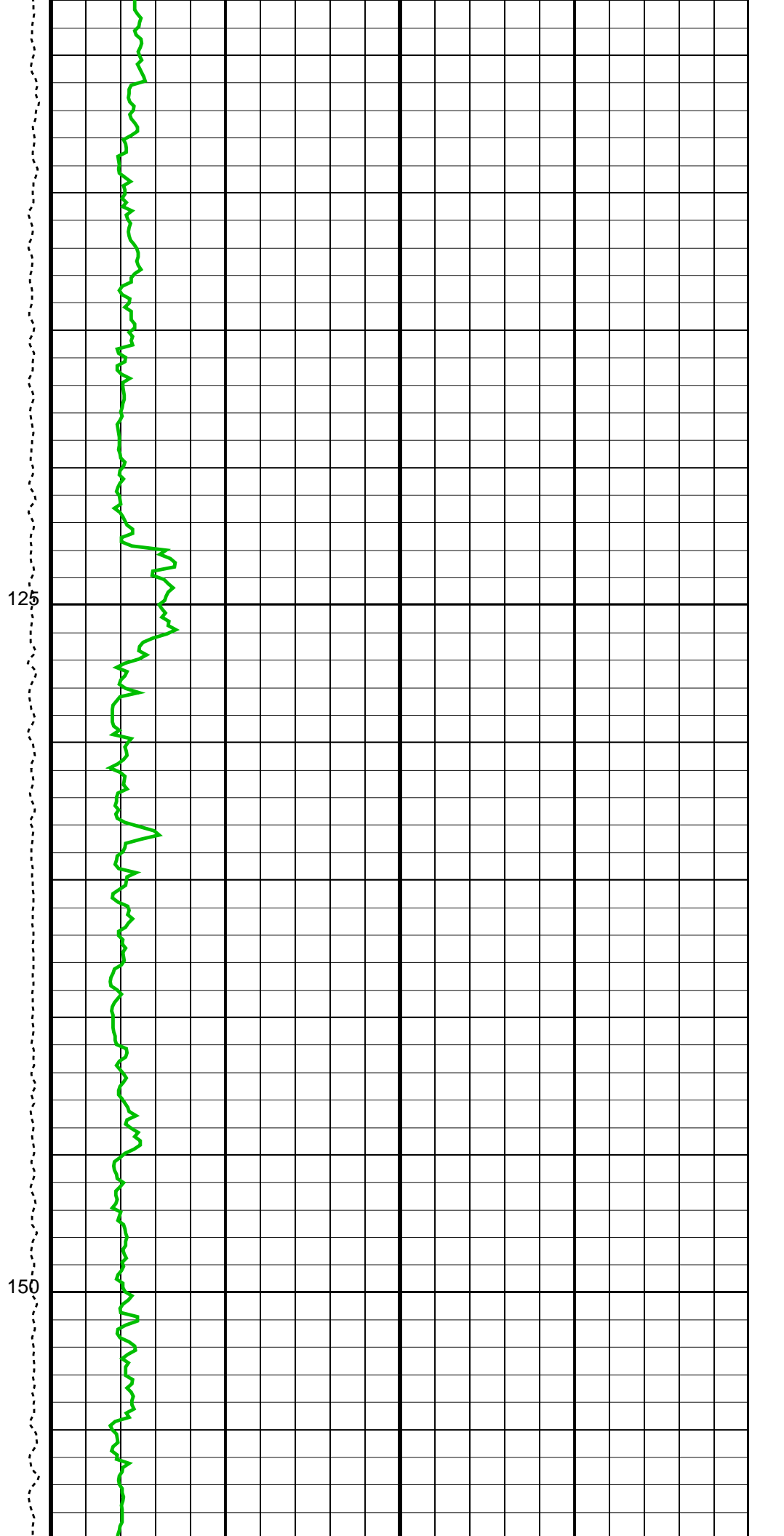
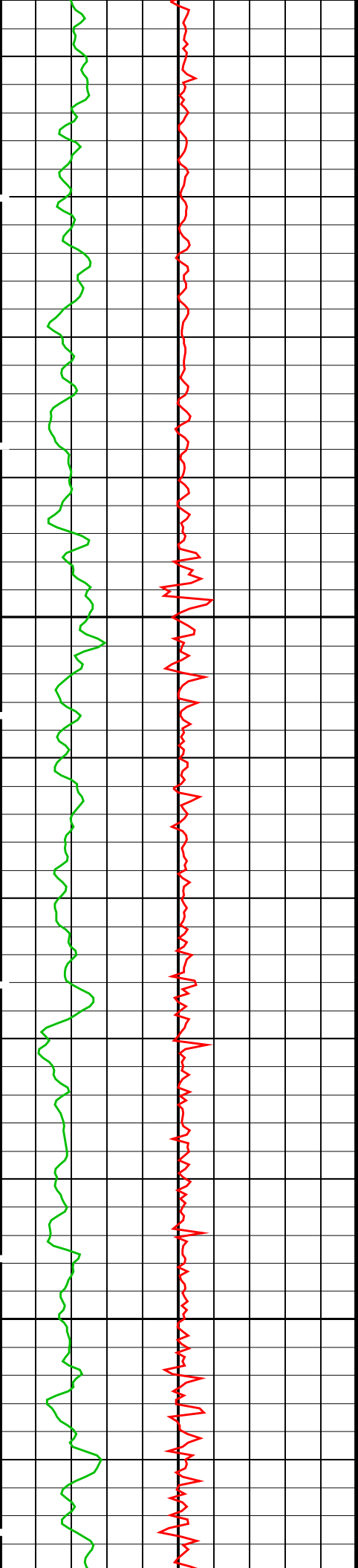
PIP SUMMARY

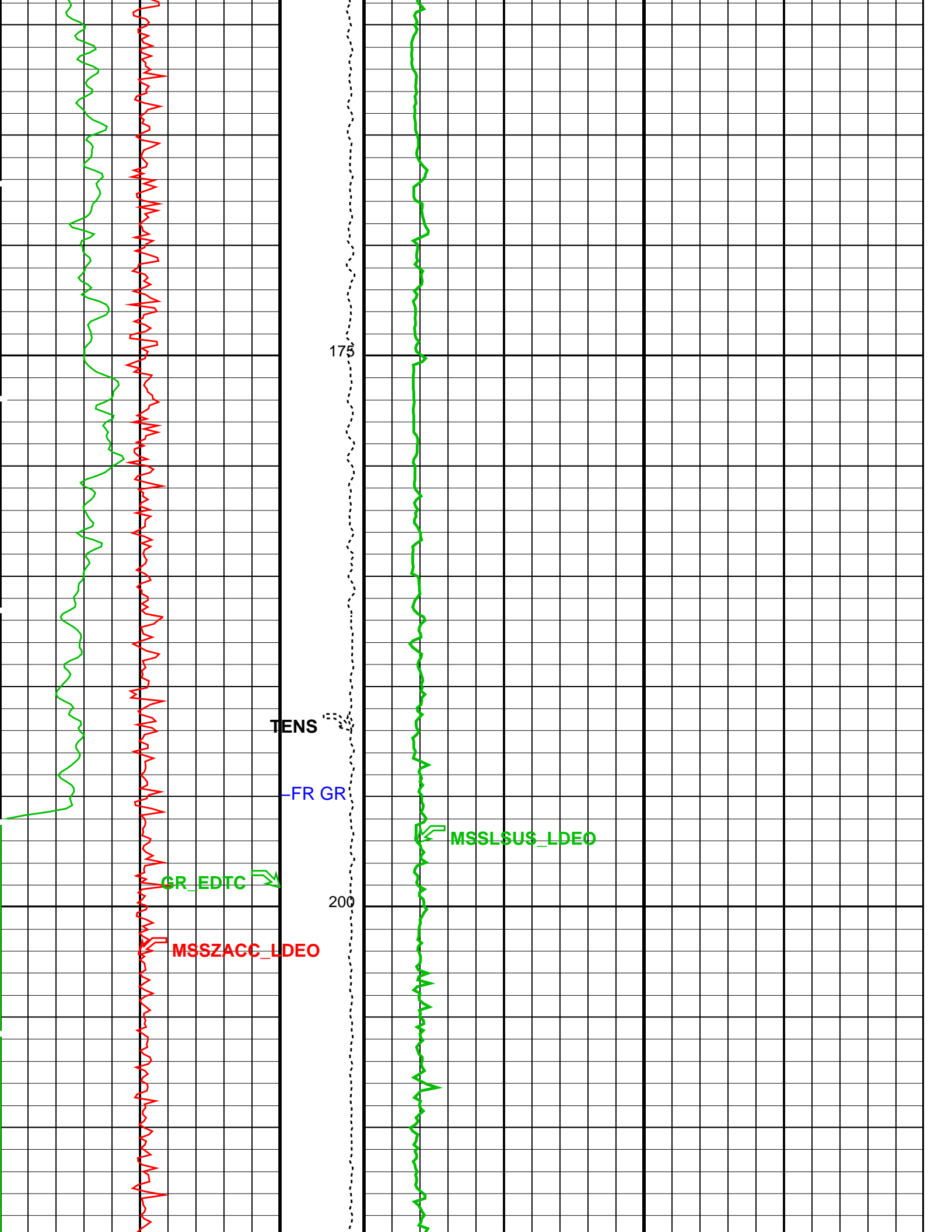
Time Mark Every 60 S

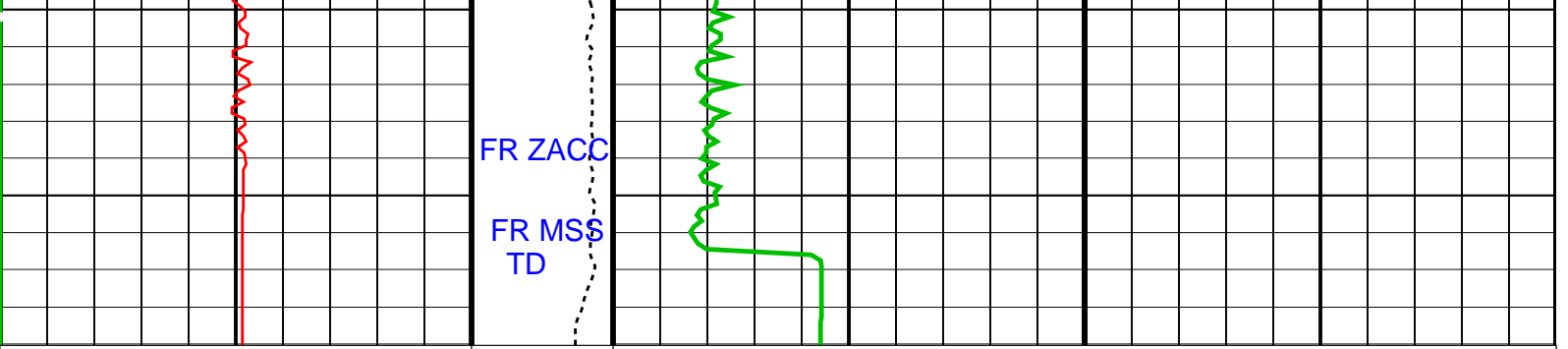












Axial Acceleration (MSSZACC_LDEO) 0 (M/S ²) 20	Tension (TENS) (LBF) 0 5000	Dual-Coil Susceptibility (MSSLSUS_LDEO) -10000 (PPM) 90000
Gamma Ray (GR_EDTC) 0 (GAPI) 75	2nd Pass, Sea Floor Depth Reference	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback Playback Processing	-2490.0 M OFF

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 24-Mar-2012 20:46

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:57	PRODUCER	24-Mar-2012 20:37	2713.5 M	2478.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_042PUP	FN:59	PRODUCER	24-Mar-2012 20:46		
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Company: Lamont Doherty Earth Observatory Well: Expedition 340, Site U1397B

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:56	PRODUCER	24-Mar-2012 20:33	2713.5 M	2606.2 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_041PUP	FN:58	PRODUCER	24-Mar-2012 20:44	224.0 M	116.1 M
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OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR_EDTC) 0 (GAPI) 75	1st Pass, Sea Floor Depth Reference	
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Axial Acceleration (MSSZACC_LDEO)
(M/S²)

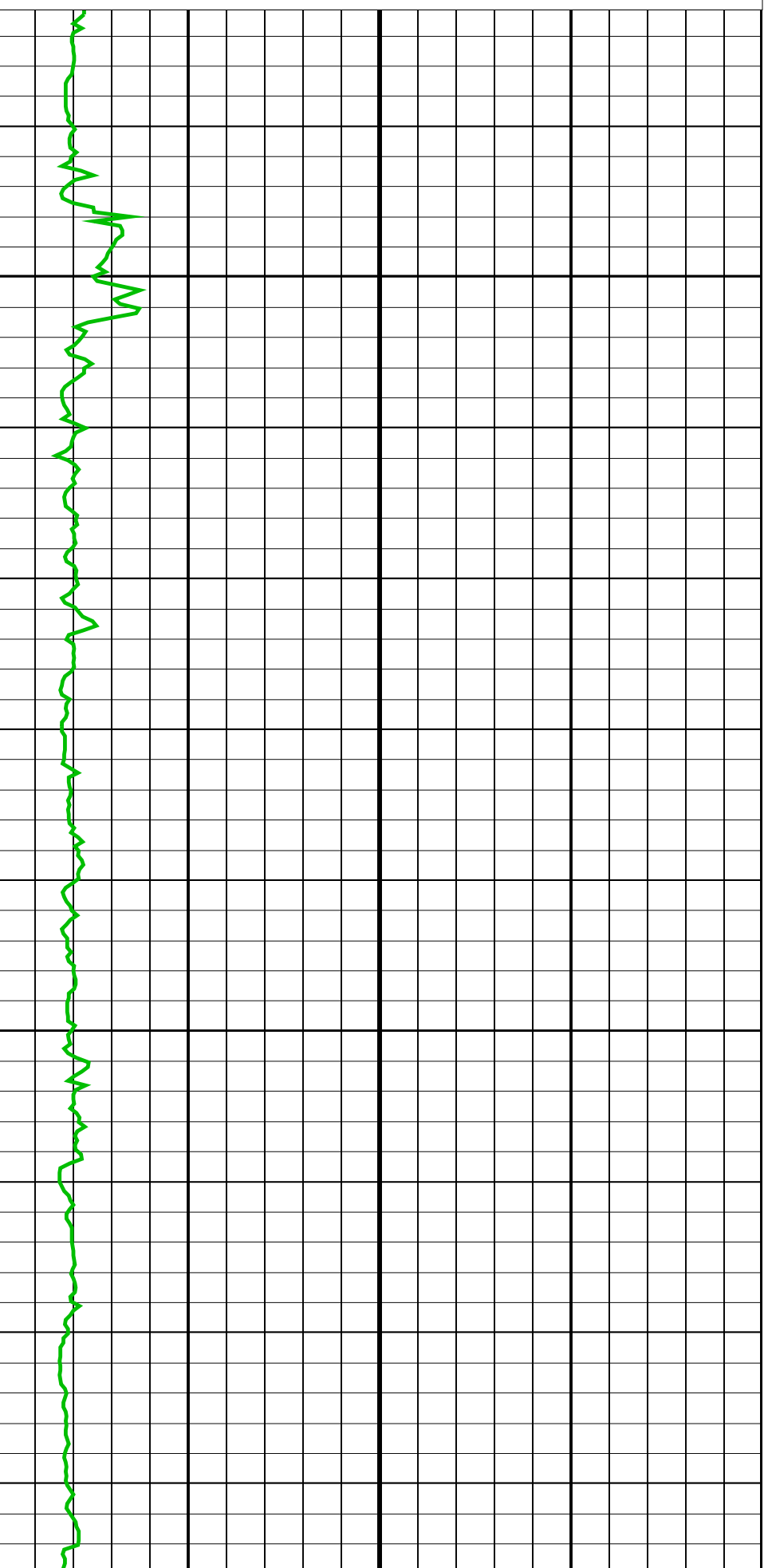
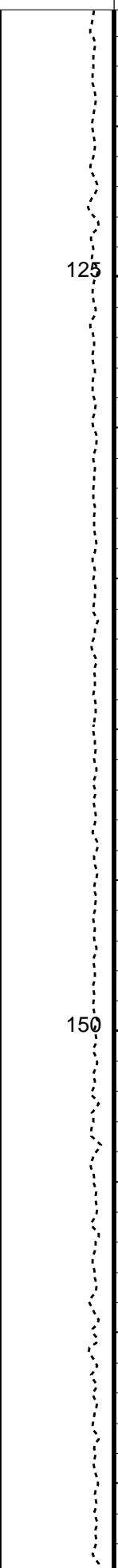
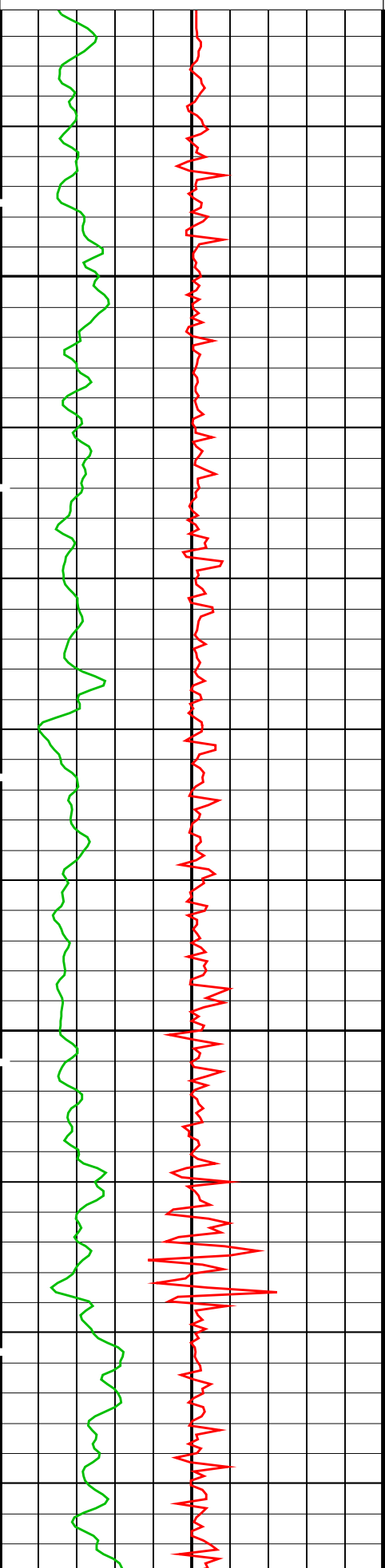
0 20

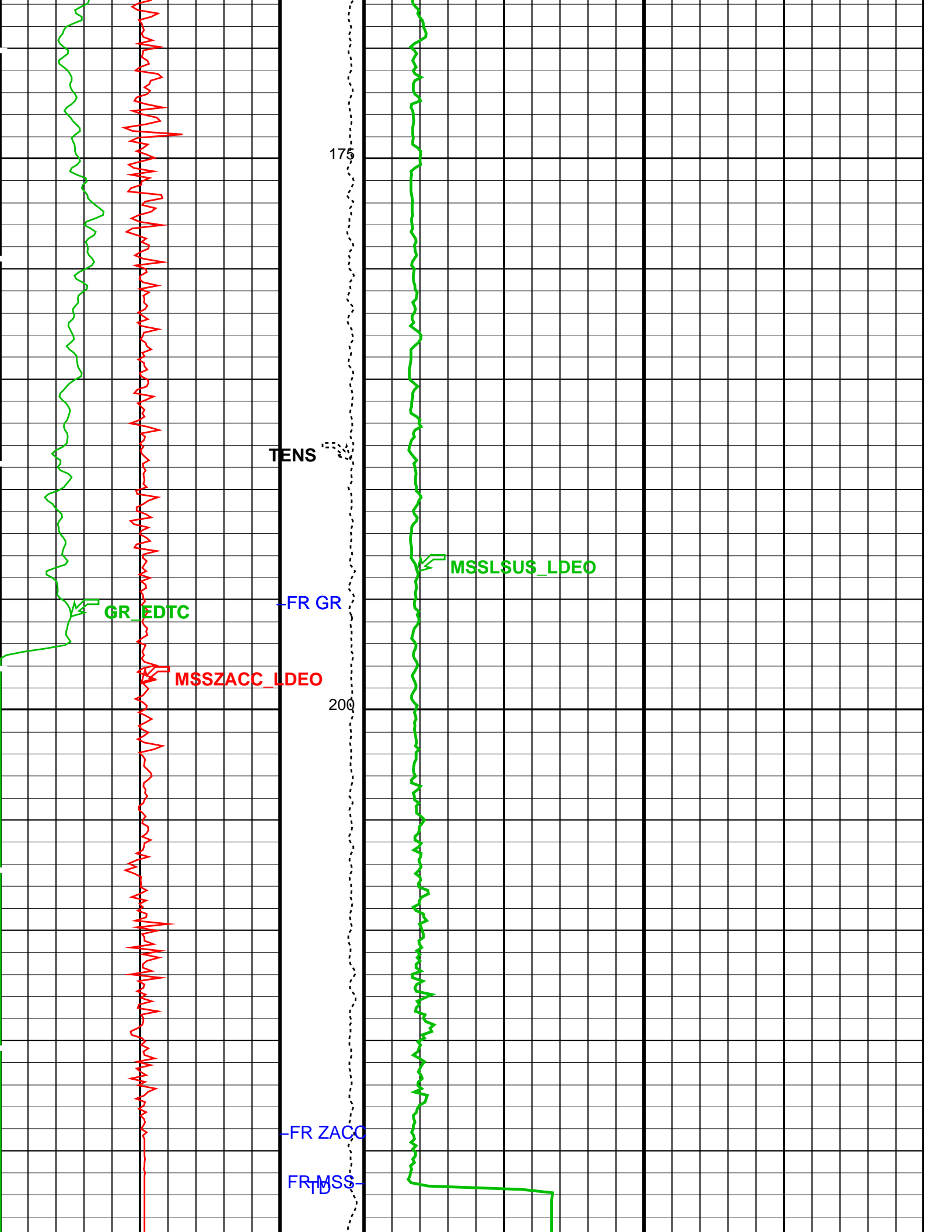
Tension
(TENS)
(LBF)

0 5000

Dual-Coil Susceptibility (MSSLSUS_LDEO)
(PPM)

-10000 90000





Axial Acceleration (MSSZACC_LDEO) 0 (M/S ²) 20	Tension (TENS) (LBF) 0 5000	Dual-Coil Susceptibility (MSSLSUS_LDEO) -10000 (PPM) 90000
Gamma Ray (GR_EDTC) 0 (GAPI) 75	1st Pass, Sea Floor Depth Reference	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO PP	System and Miscellaneous Depth Offset for Playback Playback Processing	-2490.0 M OFF

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 24-Mar-2012 20:44

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:56	PRODUCER	24-Mar-2012 20:33	2713.5 M	2606.2 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_041PUP	FN:58	PRODUCER	24-Mar-2012 20:44
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 23-Mar-2012 6:19 After: 23-Mar-2012 10:12							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-318.5	-318.7	-0.1793	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-325.9	-328.3	-2.351	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-328.8	-330.6	-1.802	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-334.0	-335.2	-1.195	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-324.3	-324.8	-0.4844	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-320.8	-321.2	-0.3915	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	317.1	320.5	3.338	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: 23-Mar-2012 6:19 After: 23-Mar-2012 10:12							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1752	1752	0.01233	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1791	1803	12.27	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1802	1811	9.416	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1831	1837	6.161	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1780	1782	1.948	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1762	1764	1.738	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1750	-1768	-17.94	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: 23-Mar-2012 6:19 After: 23-Mar-2012 10:12							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1738	1737	-1.184	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1790	1800	10.38	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1802	1810	7.970	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1835	1840	5.106	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1777	1777	0.7261	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1759	1760	0.7565	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1739	-1754	-15.87	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

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT A3-A4 Voltage Plus - 0 through -7.

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT A4-A5 Voltage Plus - 0 through -7.

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT A5-A6 Voltage Plus - 0 through -7.

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT Torpedo-M0 Voltage - 0 through -7.

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT Bridle#9-M0 Voltage - 0 through -7.

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT Source Current Plus - 0 through -7.

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Table with 8 columns: Measurement Name, Value 1, Value 2, Value 3, Value 4, Value 5, Value 6, Value 7. Rows include HRLT Vertical Voltage PI - 0 through -7.

Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement

Master: 28-Feb-2012 2:19 Before: 28-Feb-2012 2:36 After: 12-Mar-2012 10:07

SS Cs Resolution Bkg	9.000	8.563	8.511	8.514	0.003472	1.800	%
LS Cs Resolution Bkg	9.000	8.637	8.632	8.675	0.04277	1.800	%
LSW1 Background	100.0	71.69	71.37	71.75	0.3806	0.03000	CPS
LSW2 Background	100.0	65.72	64.67	64.93	0.2653	0.03000	CPS
LSW3 Background	200.0	147.7	146.0	146.2	0.1911	0.03000	CPS
LSW4 Background	250.0	178.3	178.0	178.2	0.1540	0.03000	CPS
LSW5 Background	600.0	402.3	401.7	403.3	1.578	0.03000	CPS
SSW1 Background	100.0	68.69	69.17	70.04	0.8604	0.03000	CPS
SSW2 Background	200.0	121.6	122.1	122.8	0.6243	0.03000	CPS
SSW3 Background	500.0	321.9	321.7	322.9	1.276	0.03000	CPS
SSW4 Background	270.0	172.2	173.0	171.5	-1.459	0.03000	CPS
SSW5 Background	200.0	123.5	123.8	123.7	-0.1024	0.03000	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 28-Feb-2012 2:19

LSW1 Aluminum	600.0	521.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	758.2	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	921.8	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	463.1	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	428.2	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2229	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6354	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9261	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3871	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	518.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement

Master: 28-Feb-2012 2:19

LSW1 Iron	400.0	352.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	613.7	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	811.4	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	425.3	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	389.1	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1664	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5327	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8450	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3532	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	458.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration

Before: 28-Feb-2012 2:41

HLDS Caliper Small Ring	12.00	N/A	13.84	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	17.47	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 26-Feb-2012 20:15 Before: 6-Mar-2012 18:49 After: 7-Jan-2012 4:55

Na 511 Peak Loc	40.00	39.64	39.54	39.67	0.1356	1.000	
Na 511 Peak Res	15.50	14.75	15.72	14.52	-1.200	2.000	%
High Voltage	1150	1169	1182	1165	-16.88	N/A	V
Na 1785 Peak Loc	142.6	141.6	141.5	142.4	0.9280	7.000	
Na 1785 Peak Res	8.500	8.869	8.671	9.127	0.4562	2.000	%
Temperature	15.50	26.03	31.35	20.87	-10.48	N/A	DEGC
Na Count Rate	45.00	19.34	19.64	21.17	1.535	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 26-Feb-2012 20:15 Before: 6-Mar-2012 18:49 After: 7-Jan-2012 4:55

Na 511 Peak Loc	40.00	39.65	39.61	39.47	-0.1442	1.000	
Na 511 Peak Res	15.50	16.96	15.84	15.81	-0.03564	2.000	%
High Voltage	1150	1100	1109	1089	-19.85	N/A	V
Na 1785 Peak Loc	142.6	142.2	141.4	141.6	0.2126	7.000	
Na 1785 Peak Res	8.500	7.801	8.832	8.025	-0.8067	2.000	%
Temperature	15.50	26.16	31.73	21.06	-10.66	N/A	DEGC
Na Count Rate	45.00	19.53	20.28	20.79	0.5101	8.000	CPS

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

Master: 26-Feb-2012 20:15 Before: 6-Mar-2012 18:49 After: 7-Jan-2012 4:55

Coincidence Count Rate Ratio	1.000	0.9899	0.9701	1.019	0.04846	0.05000	
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Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 23-Mar-2012 6:19

EDTC Z-Axis Acceleration	9.810	N/A	9.742	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 4-Mar-2012 17:35

Gamma Ray (Jig – Bkg)	159.9	N/A	159.9	N/A	N/A	14.53	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI

Primary Equipment:		
HRLT Sonde	HRLS – B	969
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	759
HRLT Lower Cartridge	HRLC – B	759
HRLT upper Housing	HRUH – B	769
HRLT Upper Cartridge	HRUC – B	769

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS – D	57
Hostile Litho Density High Voltage	HLDV – D	51
Gamma Source Radioactive	GSR – Z	2397
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP – C	61
Hostile Litho Density High Voltage Housi	HEH – H	53

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC – B	366
Auxiliary Equipment:		
LDSC Housing	LDSH – A	126

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC – B	300
Auxiliary Equipment:		
HNGC Housing	HNGH – A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification


Primary Equipment:		
HNGS Sonde	HNGS – BA	194
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH – BA	205
Gamma Source Radioactive	GSR – U	616008

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

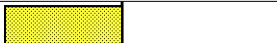


Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.742
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 23-Mar-2012 6:19

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		7.622	Before		159.9	Before		164.0
	0 (Minimum)			145.3 (Minimum)			149.0 (Minimum)	
	30.00 (Nominal)			159.9 (Nominal)			164.0 (Nominal)	
	120.0 (Maximum)			174.4 (Maximum)			179.0 (Maximum)	

Before: 4-Mar-2012 17:35

Company: **Lamont Doherty Earth Observatory****Schlumberger**Well: **Expedition 340, Site U1397B**Field: **Lesser Antilles Volcanism and Landslides**Rig: **JOIDES Resolution**Ocean: **Caribbean**

Lamont Doherty
Magnetic Susceptibility (LDEO_MSS)
Gamma Ray