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OTHER SERVICES1
 OS1:
 OS2:
 OS3:
 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.

 Tool could not get more than a few meters below drill pipe.
 No other logs run in hole.

 Data taken on downlog and flipped for combination into print.

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

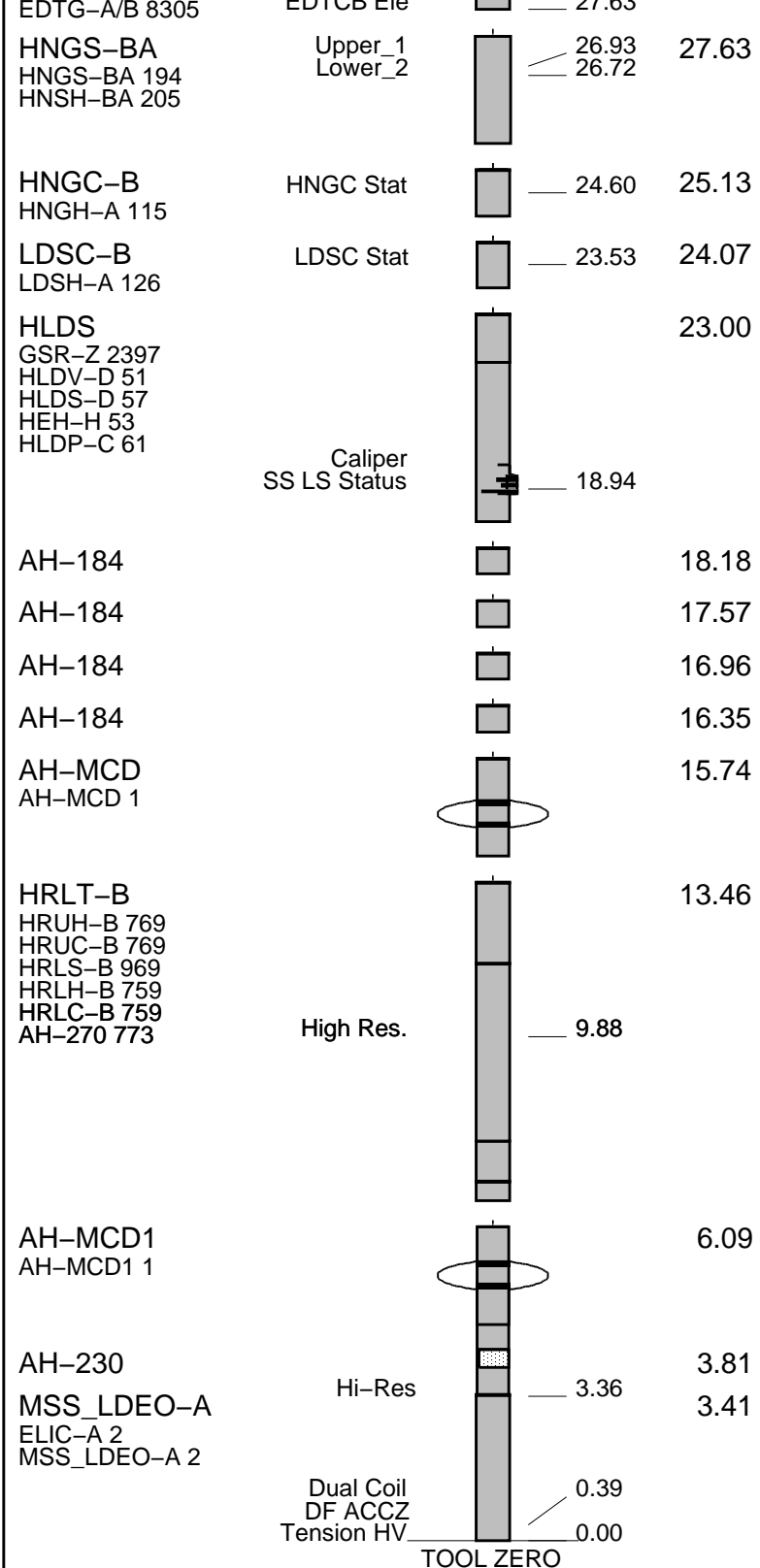
SURFACE EQUIPMENT

GSR-U 616008
 WITM (EDTS)-A 1

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT				30.94
LEH-QT 301	MDSB_EDTC			
AH-369	Mud Tempe		29.61	30.05
	CTEM		28.55	
EDTC-B	Gamma Ray		27.98	29.61
EDTH-B 8303	EFTB DIAG			
EDTC-B 8317	TelStatus			
	EDTCB-Fl		27.62	



TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN METERS

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_019LUP PRODUCER 16-Apr-2012 18:01 3035.0 M 2898.6 M

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_020PUP FN:17 PRODUCER 16-Apr-2012 18:03 89.0 M -47.4 M

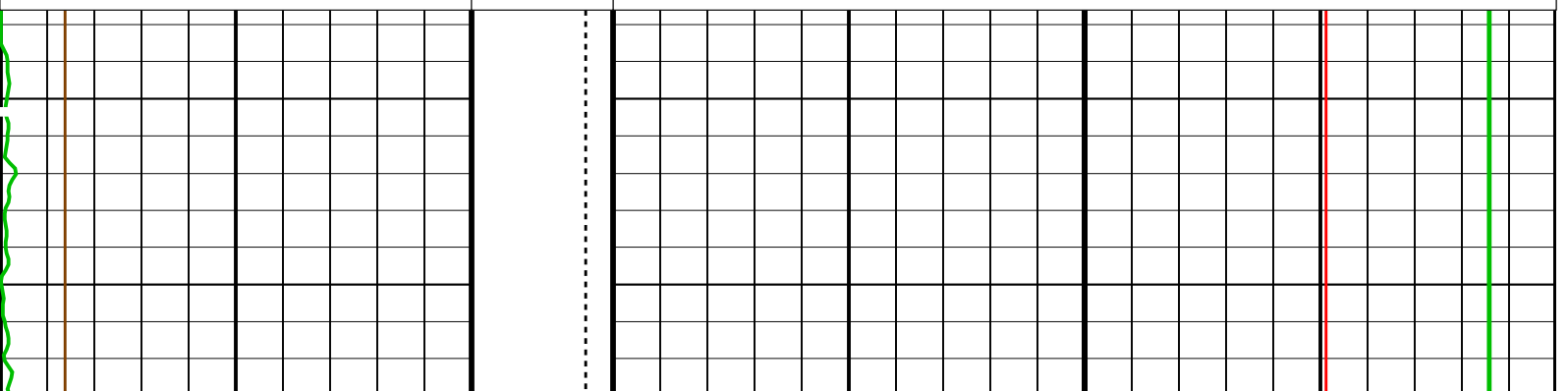
OP System Version: 19C0-187

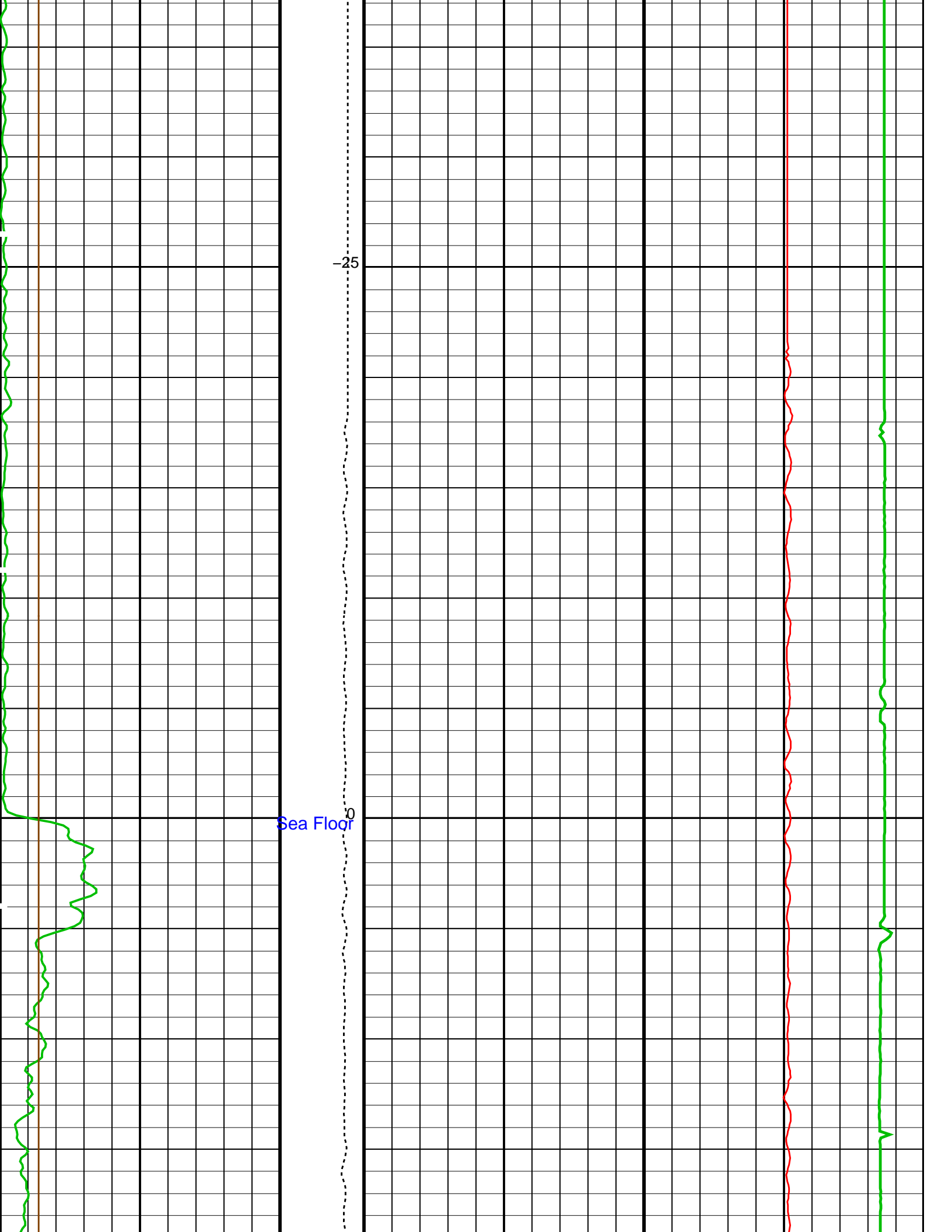
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

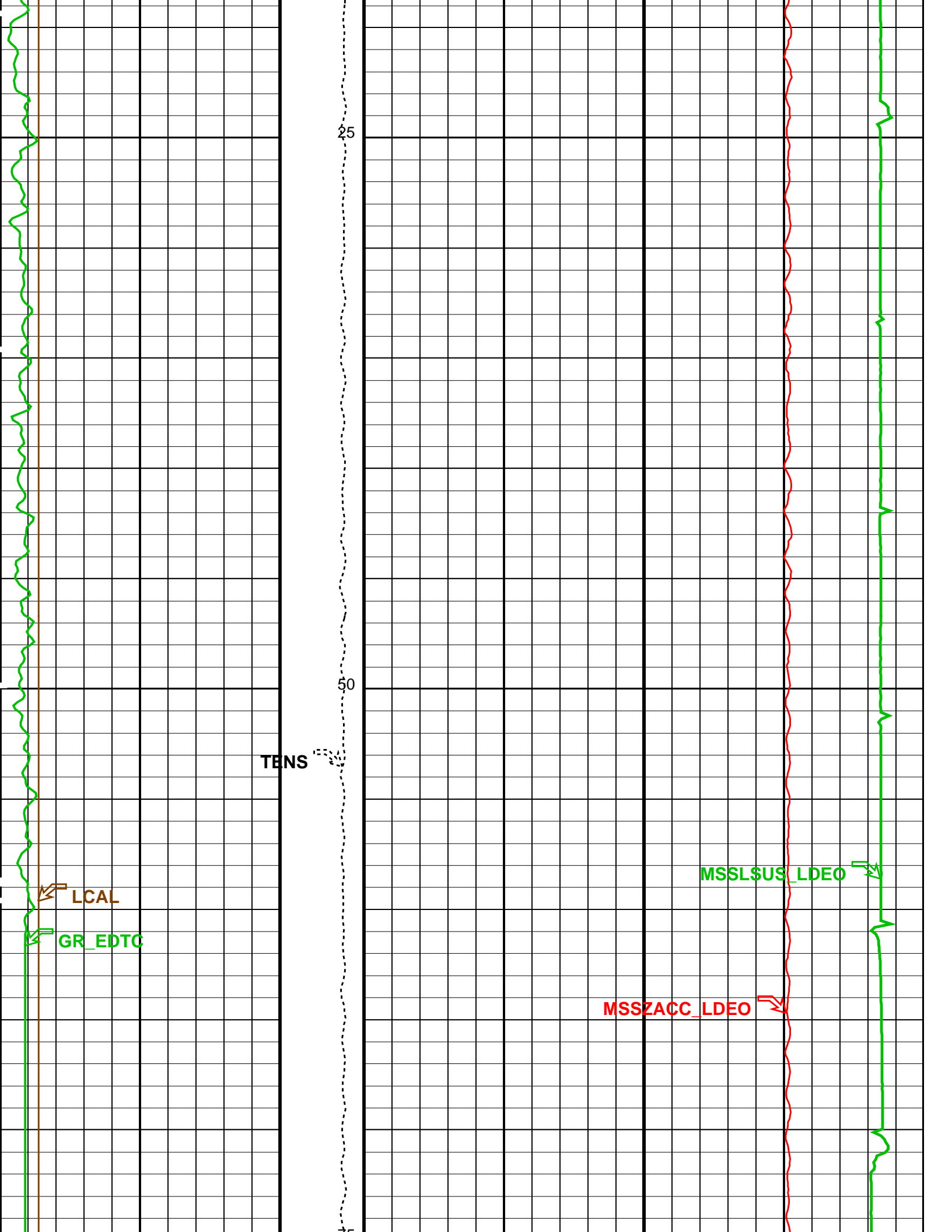
PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR_EDTC) (GAPI) 0 75	Main Downlog -Flipped	Axial Acceleration (MSSZACC_LDEO) (M/S ²) 0 20
HLDS Caliper (LCAL) (IN) 0 20	Tension (TENS) (LBF) 0 5000	Dual-Coil Susceptibility (MSSLSUS_LDEO) (PPM) -10000 90000







25

50

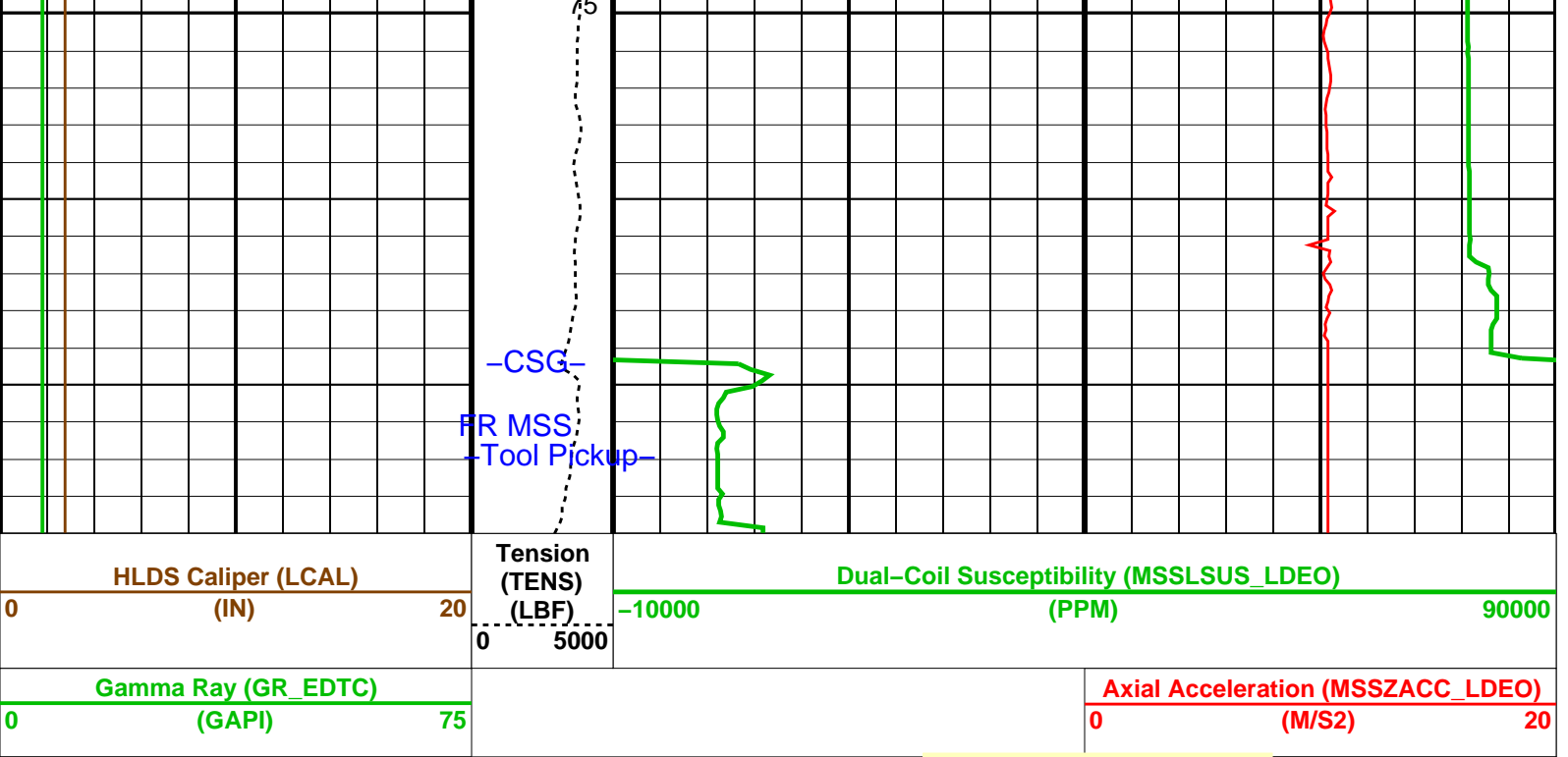
TENS

LCAL

GR_EDTC

MSSLSUS_LDEO

MSSZACC_LDEO



PIP SUMMARY

Main Downlog -Flipped

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	-2946.0 M
	Playback Processing	OFF

Format: MSS_Logging

Vertical Scale: 1:200

Graphics File Created: 16-Apr-2012 18:03

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	Flip_MSS_LDEO_HRLA_019LUP	PRODUCER	16-Apr-2012 18:01	3035.0 M	2898.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_020PUP	FN:17	PRODUCER	16-Apr-2012 18:03
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01

Before: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT M0-M1 Voltage Plus - 0	0	N/A	-318.6	-318.0	0.6234	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-327.1	-328.4	-1.317	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-330.2	-330.3	-0.1080	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-334.5	-334.7	-0.1902	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-324.4	-324.3	0.1874	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-321.0	-320.6	0.4000	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	318.7	320.1	1.350	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT M1-M2 Voltage Plus – 0	0	N/A	1753	1750	-2.500	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1797	1804	6.814	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1810	1811	0.7582	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1834	1836	1.679	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1781	1781	-0.2322	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1763	1762	-0.7936	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1759	-1766	-7.148	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT M2-M3 Voltage Plus – 0	0	N/A	1738	1735	-2.265	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1795	1801	6.132	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1809	1809	0.6880	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1836	1838	2.173	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1776	1776	0.09583	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1760	1759	-0.7826	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1746	-1753	-6.438	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT A3-A4 Voltage Plus – 0	0	N/A	68300	68260	-38.26	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	70350	70630	280.7	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	71170	71240	65.72	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	72530	72640	113.9	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	70120	70170	42.12	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69490	69500	16.82	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-67460	-67740	-281.7	2100	UV
HRLT A3-A4 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45

Before: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT A4-A5 Voltage Plus – 0	0	N/A	68570	68540	-37.64	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	70730	71040	308.1	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	71540	71600	63.27	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	72870	72990	118.4	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	70410	70460	53.48	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	69770	69770	2.586	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-67820	-68130	-305.1	2100	UV
HRLT A4-A5 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56

Before: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT A5-A6 Voltage Plus – 0	0	N/A	68480	68430	-43.91	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	70460	70770	307.2	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	71290	71370	73.94	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	72670	72800	126.0	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	70280	70330	54.15	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	69660	69660	3.242	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	-67550	-67840	-291.2	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT Torpedo-M0 Voltage – 0	0	N/A	-68150	-68110	41.33	2100	UV
HRLT Torpedo-M0 Voltage – 1	0	N/A	-70780	-71080	-304.3	2100	UV
HRLT Torpedo-M0 Voltage – 2	0	N/A	-71590	-71680	-82.11	2100	UV
HRLT Torpedo-M0 Voltage – 3	0	N/A	-72950	-73080	-120.8	2100	UV
HRLT Torpedo-M0 Voltage – 4	0	N/A	-70470	-70530	-56.16	2100	UV
HRLT Torpedo-M0 Voltage – 5	0	N/A	-69800	-69820	-11.75	2100	UV
HRLT Torpedo-M0 Voltage – 6	0	N/A	67820	68120	307.6	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT Bridle#9-M0 Voltage – 0	0	N/A	-68170	-68110	61.70	2100	UV
HRLT Bridle#9-M0 Voltage – 1	0	N/A	-70780	-71060	-285.1	2100	UV
HRLT Bridle#9-M0 Voltage – 2	0	N/A	-71590	-71660	-71.17	2100	UV
HRLT Bridle#9-M0 Voltage – 3	0	N/A	-72960	-73060	-101.3	2100	UV
HRLT Bridle#9-M0 Voltage – 4	0	N/A	-70490	-70520	-28.08	2100	UV
HRLT Bridle#9-M0 Voltage – 5	0	N/A	-69830	-69810	13.60	2100	UV
HRLT Bridle#9-M0 Voltage – 6	0	N/A	67830	68090	261.4	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT Source Current Plus – 0	0	N/A	284.3	284.1	-0.2126	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: 28-Mar-2012 2:03 After: 12-Mar-2012 10:03

HRLT Vertical Voltage PI - 0	0	N/A	-320.9	-320.6	0.3133	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-321.2	-322.5	-1.315	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-323.5	-323.7	-0.2236	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-326.2	-326.6	-0.4873	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-313.7	-313.9	-0.1856	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.5	-325.5	0.01404	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	325.5	326.9	1.469	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: 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: Calibration out of date 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: Calibration out of date 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	26.03	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

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: Calibration out of date 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: 28-Mar-2012 2:03

EDTC Z-Axis Acceleration	9.810	N/A	9.730	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: Calibration out of date 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

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:

HRLT Sonde	HRLS – B	969
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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
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Auxiliary Equipment:

LDSC Housing	LDSH – A	126
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Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – B	300
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Auxiliary Equipment:

HNGC Housing	HNGH – A	115
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:


HNGS Sonde	HNGS – BA	194
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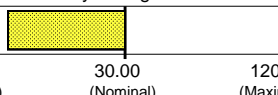
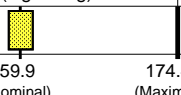
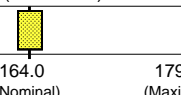
Auxiliary Equipment:

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		9.730
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 28-Mar-2012 2:03		

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		7.622	Before		159.9	Before		164.0	
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			145.3 (Minimum) 159.9 (Nominal) 174.4 (Maximum)			149.0 (Minimum) 164.0 (Nominal) 179.0 (Maximum)		
Before: Calibration out of date 4-Mar-2012 17:35									

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 340, Site U1398B**

Field: **Lesser Antilles Volcanism and Landslides**

Rig: **JOIDES Resolution**

Ocean: **Caribbean**

LDEO Magnetic Susceptibility (LDEO-MSS)
Gamma Ray