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**OTHER SERVICES1**  
 OS1: FMS  
 OS2: MSS  
 OS3: DSI  
 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).  
 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 is provided by Lamont Doherty Earth Observatory of Columbia University.  
 MSS calibrations are performed by LDEO.

**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**

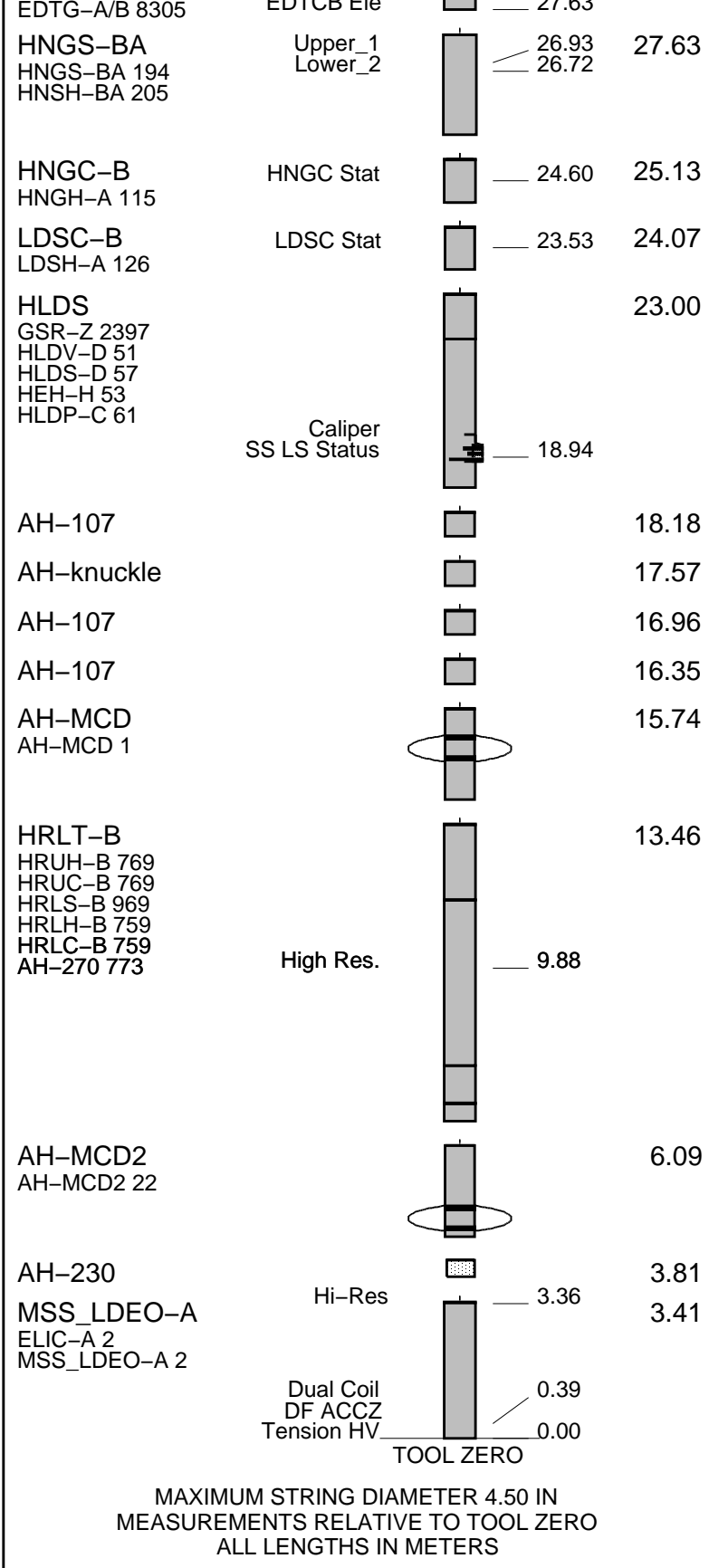
**SURFACE EQUIPMENT**

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_Ele		27.62



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

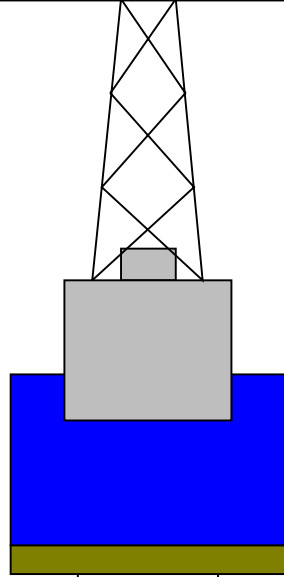
Kelly Bushing Elevation  
Derrick Floor Elevation

Mean Sea Level

-1125

-1125

-1114



4.1



0

3.80

Sea Floor

83

11.43

Open Hole

182

Total Depth

### Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_006LUP	FN:7	PRODUCER	19-Mar-2012 18:20	1305.3 M	1109.3 M
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### Output DLIS Files

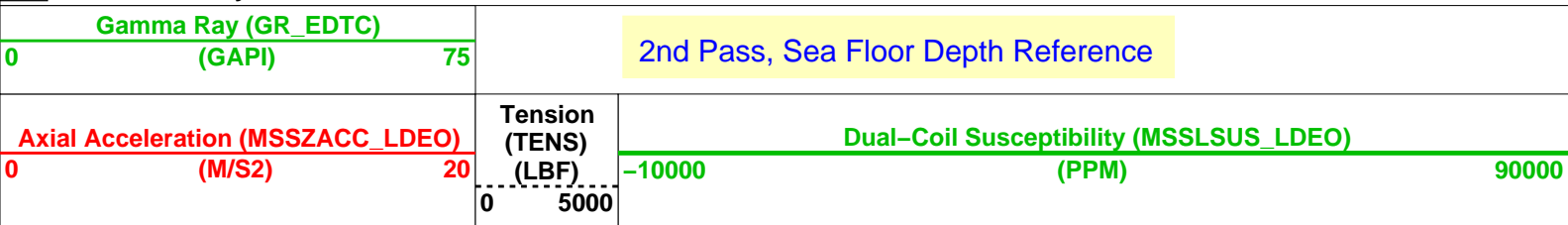
DEFAULT	MSS_LDEO_HRLA_LDL_043PUP	FN:14	PRODUCER	19-Mar-2012 21:45	181.4 M	-14.9 M
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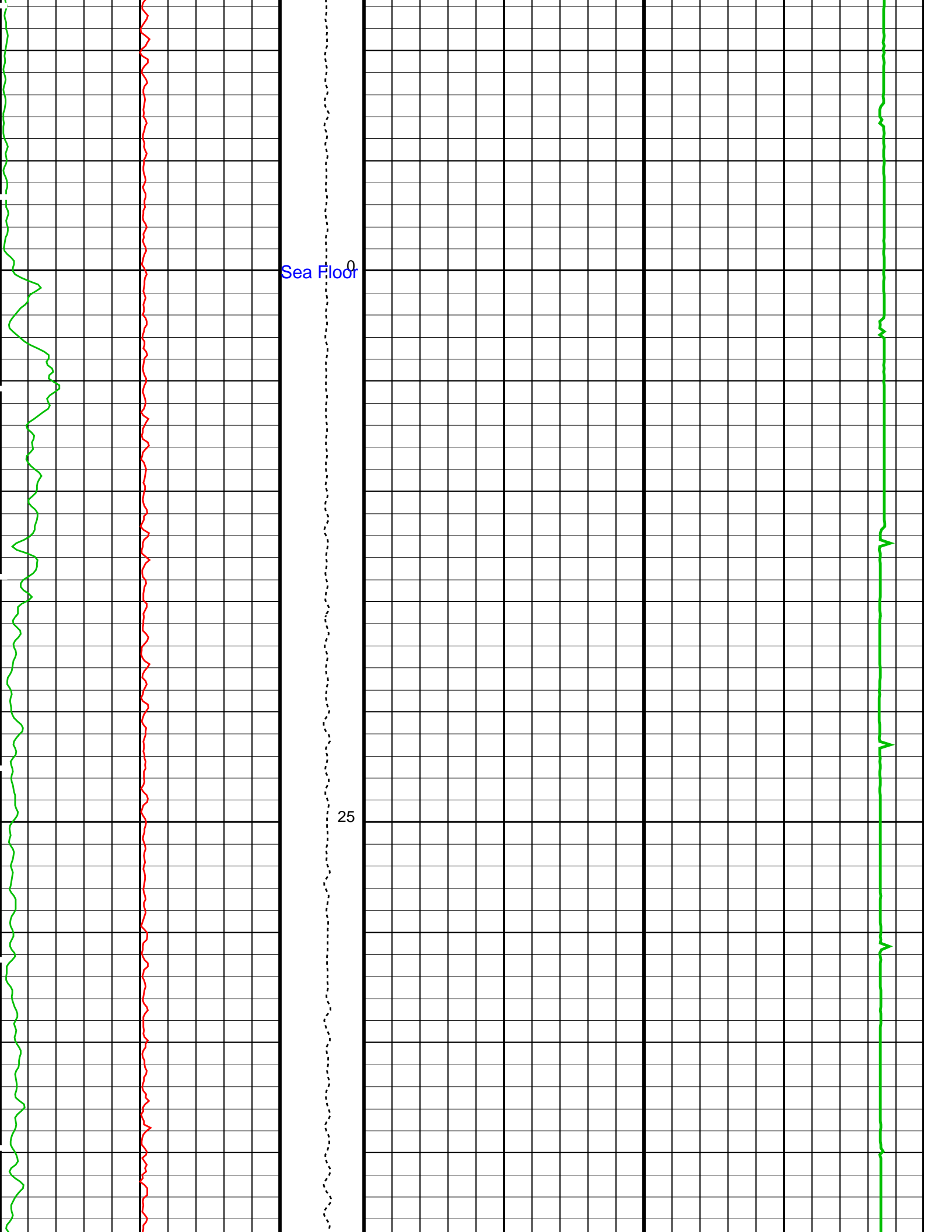
### OP System Version: 19C0-187

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

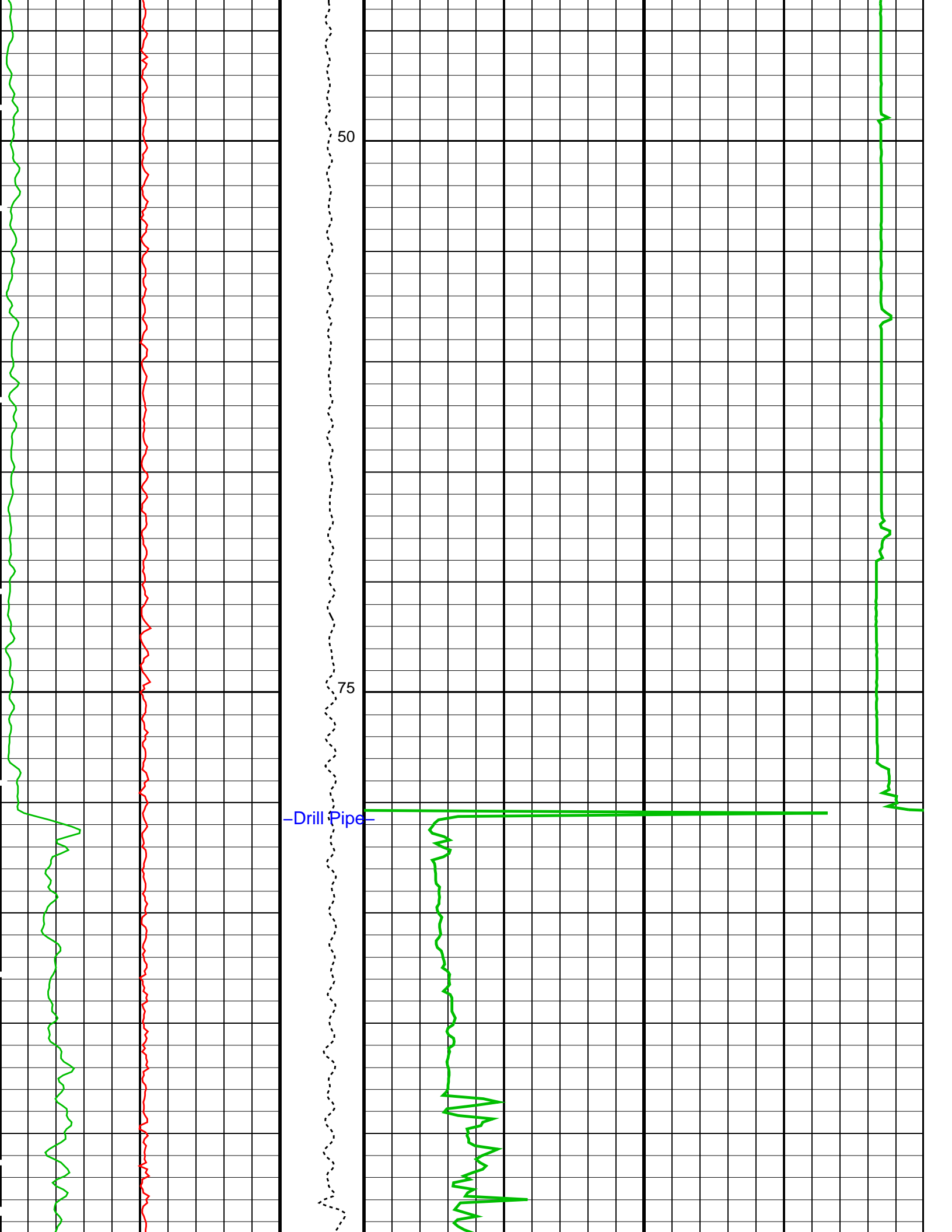


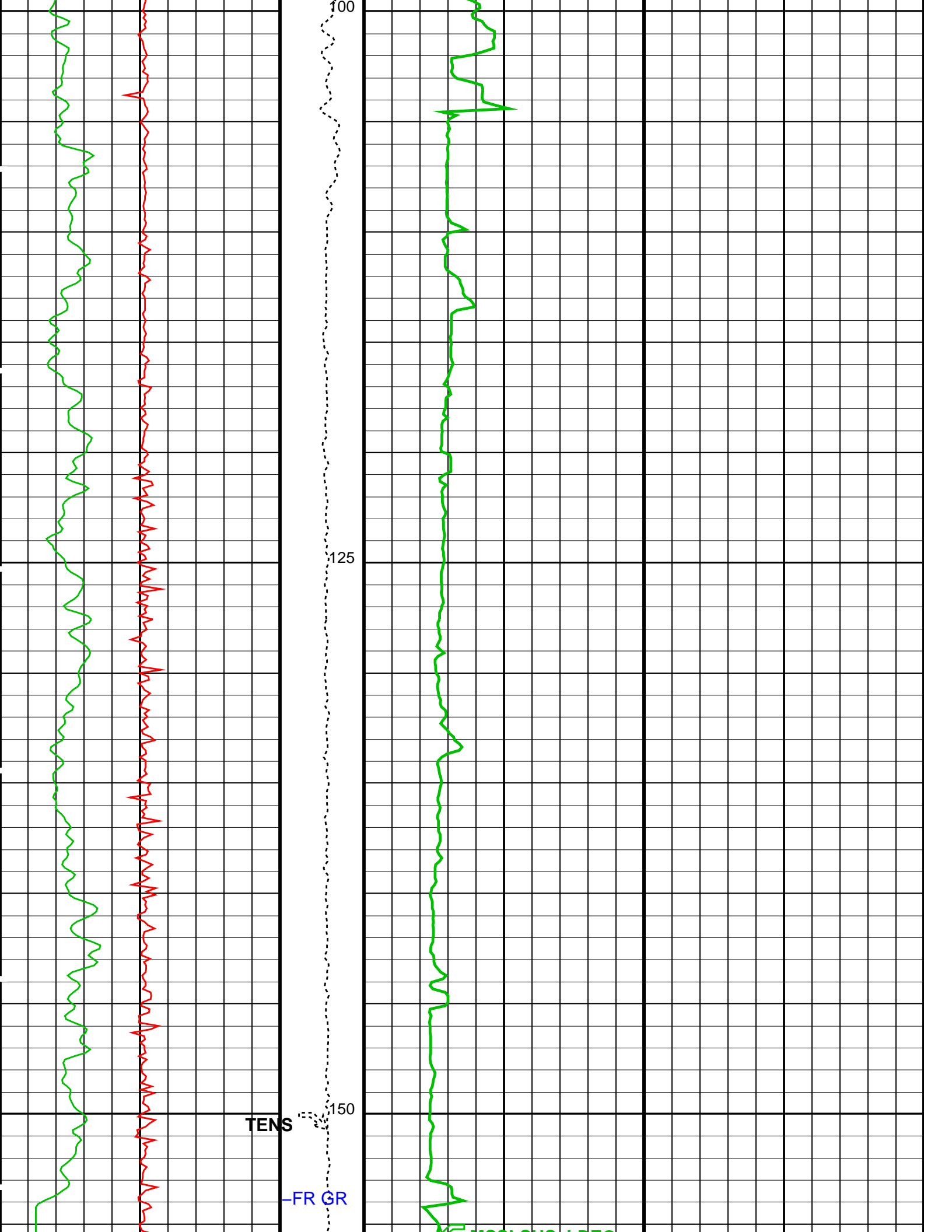


Sea Floor

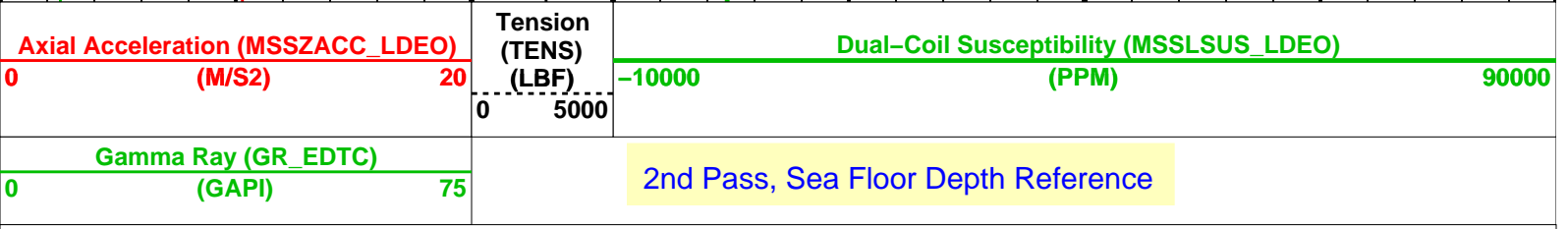
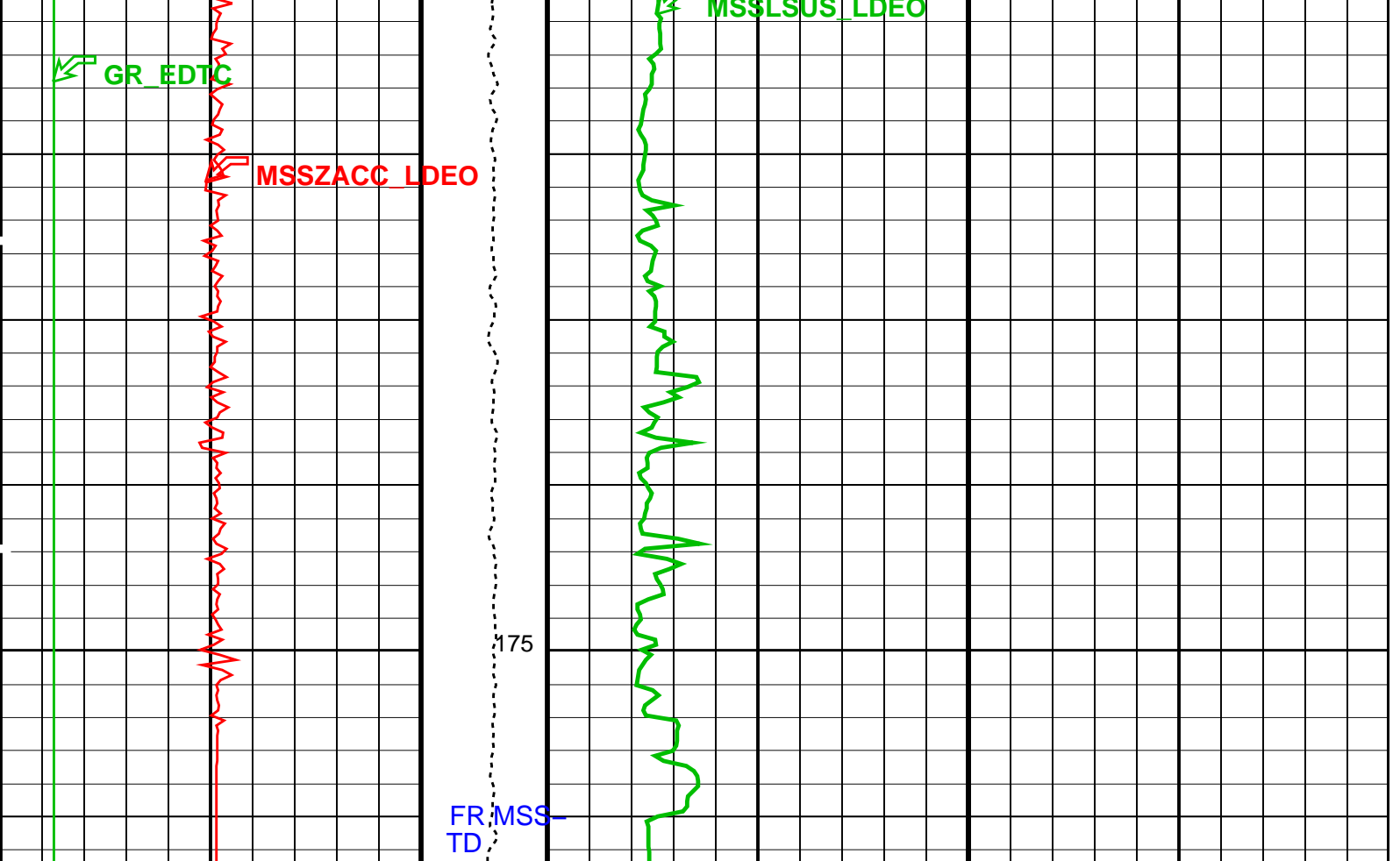
0

25









**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

DLIS Name	Description	Value
System and Miscellaneous		
DO	Depth Offset for Playback	-1124.3 M
PP	Playback Processing	RECOMPUTE

Format: MSS\_Logging    Vertical Scale: 1:200    Graphics File Created: 19-Mar-2012 21:45

**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_006LUP	FN:7	PRODUCER	19-Mar-2012 18:20	1305.3 M	1109.3 M
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**Output DLIS Files**

DEFAULT	MSS_LDEO_HRLA_LDL_043PUP	FN:14	PRODUCER	19-Mar-2012 21:45
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# Input DLIS Files

DEFAULT    MSS\_LDEO\_HRLA\_LDL\_005LUP    FN:6    PRODUCER    19-Mar-2012 18:20    1305.3 M    1246.5 M

# Output DLIS Files

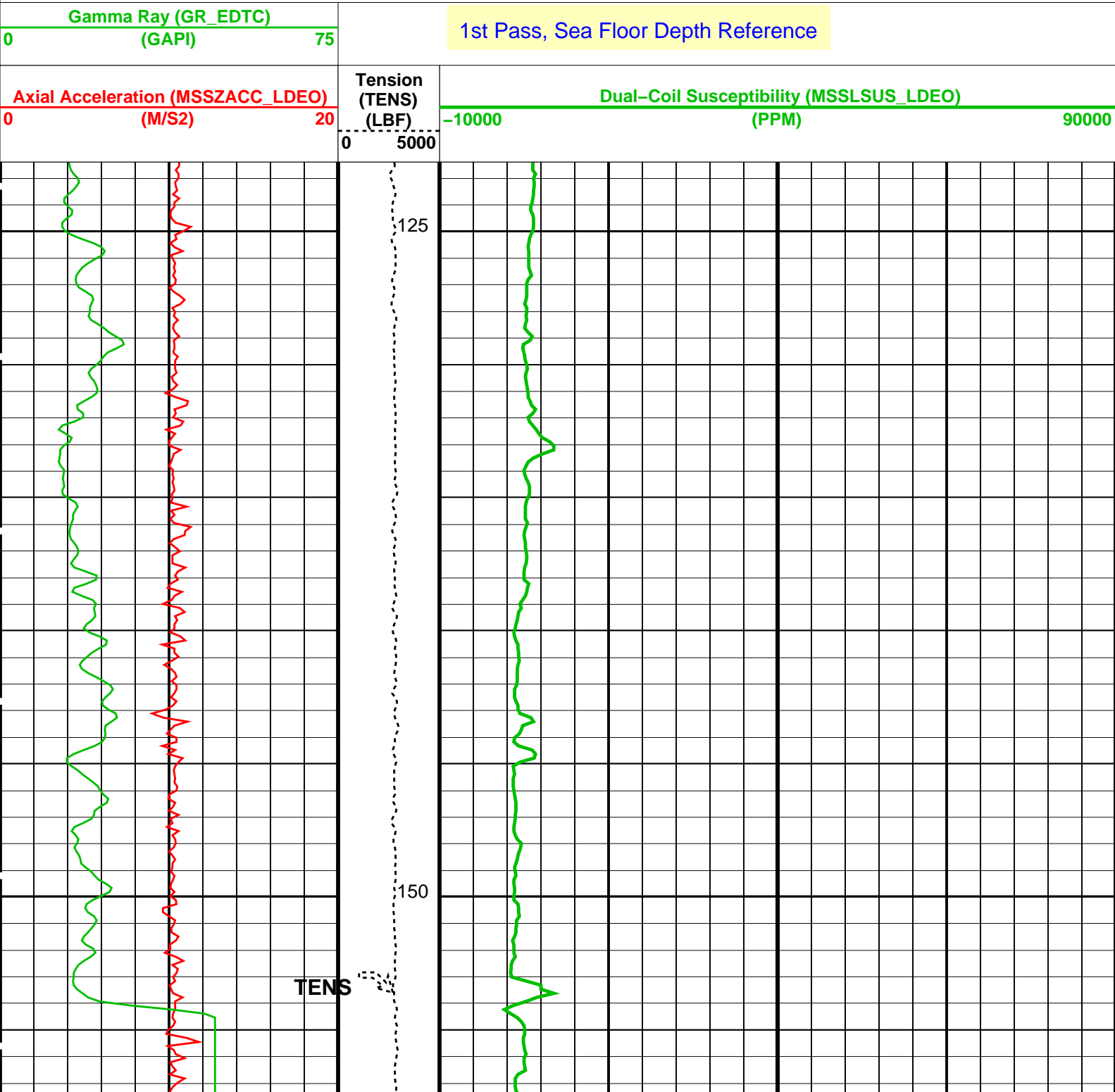
DEFAULT    MSS\_LDEO\_HRLA\_LDL\_042PUP    FN:13    PRODUCER    19-Mar-2012 21:32    181.4 M    122.4 M

## 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





Measurement	Nominal	Master	Before	After	Change	Limit	Units
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT M0–M1 Voltage Plus – 0	0	N/A	-318.2	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 1	0	N/A	-324.6	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 2	0	N/A	-328.1	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 3	0	N/A	-333.5	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 4	0	N/A	-324.1	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 5	0	N/A	-320.8	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 6	0	N/A	317.3	N/A	N/A	9.681	UV
HRLT M0–M1 Voltage Plus – 7	0	N/A	-322.7	N/A	N/A	9.681	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT M1–M2 Voltage Plus – 0	0	N/A	1750	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 1	0	N/A	1784	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 2	0	N/A	1798	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 3	0	N/A	1828	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 4	0	N/A	1779	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 5	0	N/A	1762	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 6	0	N/A	-1751	N/A	N/A	53.42	UV
HRLT M1–M2 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT M2–M3 Voltage Plus – 0	0	N/A	1736	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 1	0	N/A	1783	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 2	0	N/A	1798	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 3	0	N/A	1831	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 4	0	N/A	1775	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 5	0	N/A	1760	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 6	0	N/A	-1739	N/A	N/A	53.42	UV
HRLT M2–M3 Voltage Plus – 7	0	N/A	1781	N/A	N/A	53.42	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT A3–A4 Voltage Plus – 0	0	N/A	68200	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 1	0	N/A	69800	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 2	0	N/A	70710	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 3	0	N/A	72290	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 4	0	N/A	70030	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 5	0	N/A	69440	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 6	0	N/A	-67150	N/A	N/A	2100	UV
HRLT A3–A4 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT A4–A5 Voltage Plus – 0	0	N/A	68470	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 1	0	N/A	70180	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 2	0	N/A	71080	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 3	0	N/A	72640	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 4	0	N/A	70330	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 5	0	N/A	69710	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 6	0	N/A	-67520	N/A	N/A	2100	UV
HRLT A4–A5 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT A5–A6 Voltage Plus – 0	0	N/A	68370	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 1	0	N/A	69910	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 2	0	N/A	70840	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 3	0	N/A	72420	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 4	0	N/A	70200	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 5	0	N/A	69600	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 6	0	N/A	-67240	N/A	N/A	2100	UV
HRLT A5–A6 Voltage Plus – 7	0	N/A	70000	N/A	N/A	2100	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP</b>							
Before: 12–Mar–2012 7:07 After: Calibration not done							
HRLT Torpedo–M0 Voltage – 0	0	N/A	-68060	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 1	0	N/A	-70250	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 2	0	N/A	-71130	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 3	0	N/A	-72710	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 4	0	N/A	-70400	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 5	0	N/A	-69760	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 6	0	N/A	67520	N/A	N/A	2100	UV
HRLT Torpedo–M0 Voltage – 7	0	N/A	-70000	N/A	N/A	2100	UV
<b>High Resolution Laterolog Array – B Wellsite Calibration – HRLT VBD</b>							

Before: 12-Mar-2012 7:07 After: Calibration not done

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68050	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-70210	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-71110	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-72700	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70380	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69740	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	67490	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 12-Mar-2012 7:07 After: Calibration not done

HRLT Source Current Plus - 0	0	N/A	283.8	N/A	N/A	8.520	UA
HRLT Source Current Plus - 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus - 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 12-Mar-2012 7:07 After: Calibration not done

HRLT Vertical Voltage PI - 0	0	N/A	-320.7	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-319.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-321.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-325.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-313.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	324.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement

Master: 28-Feb-2012 2:19 Before: 28-Feb-2012 2:36 After: 28-Feb-2012 2:48

SS Cs Resolution Bkg	9.000	8.563	8.511	8.490	-0.02108	1.800	%
LS Cs Resolution Bkg	9.000	8.637	8.632	8.625	-0.007336	1.800	%
LSW1 Background	100.0	71.69	71.37	70.67	-0.7008	0.03000	CPS
LSW2 Background	100.0	65.72	64.67	65.40	0.7334	0.03000	CPS
LSW3 Background	200.0	147.7	146.0	145.4	-0.5997	0.03000	CPS
LSW4 Background	250.0	178.3	178.0	176.4	-1.639	0.03000	CPS
LSW5 Background	600.0	402.3	401.7	401.3	-0.4352	0.03000	CPS
SSW1 Background	100.0	68.69	69.17	69.74	0.5658	0.03000	CPS
SSW2 Background	200.0	121.6	122.1	122.3	0.1980	0.03000	CPS
SSW3 Background	500.0	321.9	321.7	322.9	1.216	0.03000	CPS
SSW4 Background	270.0	172.2	173.0	172.9	-0.1183	0.03000	CPS
SSW5 Background	200.0	123.5	123.8	124.4	0.6215	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 B	15.50	14.75	14.70	14.50	1.000	0.000	%

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: 12-Mar-2012 7:07

EDTC Z-Axis Acceleration	9.810	N/A	9.743	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

High Resolution Laterolog Array – B / Equipment Identification

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		9.743
	9.610 (Minimum)      9.810 (Nominal)      10.01 (Maximum)	

Before: 12-Mar-2012 7:07

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: 4-Mar-2012 17:35

Company: **Lamont Doherty Earth Observatory**

**Schlumberger**

Well: **Expedition 340, Site U1394B**

Field: **Lesser Antilles Volcanism and Landslides**

Rig: **JOIDES Resolution**

Ocean: **Caribbean**

Lamont Doherty  
 Magnetic Susceptibility (LDEO\_MSS)  
 Gamma Ray