COMPANY: Lamont Doherty

WELL: ODP Leg 193, Site 1189C (PCM-3A)

FIELD: Manus Basin, Roman Ruins

COUNTY: Offshore STATE: Bismarck Sea

COUNTY: Offshore
Field: Manus Basin, Roman Ruins
Location:
Well: ODP Leg 193, Site 1189C (PCM-
Company: Lamont Doherty

Schlumberger

HLDS Density
Natural Gamma Ray

LOCATION

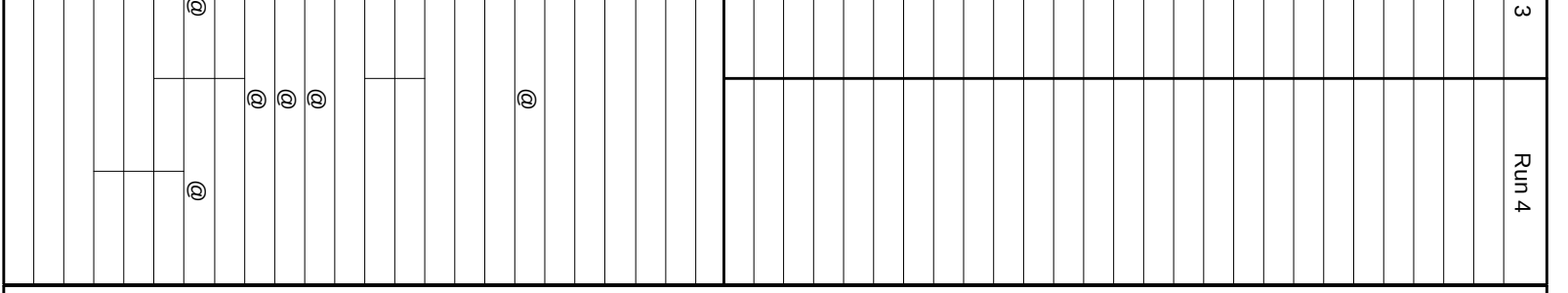
Elev.: K.B. 11.3 m
G.L. -1700 m
D.F. 11 m

Permanent Datum: MSL — Elev.: 0 m
Log Measured From: Drill Floor — 11.0 m above Perm. Datum
Drilling Measured From: Drill Floor

API Serial No.	LATITUDE: 03* 43.2415' S	LONGITUDE: 151* 40.5240' E	RIG: JOIDES Resolution

	Run 1	Run 2	Run
Logging Date	29-DEC-2000		
Run Number	1		
Depth Driller	1866 m		
Schlumberger Depth	1766 m		
Bottom Log Interval	1766 m		
Top Log Interval	1700 m		
Casing Driller Size @ Depth	0.000 in @ 1710 m	@	@
Casing Schlumberger	1708 m		
Bit Size	7.250 in		
Type Fluid In Hole	Seawater		
MUD Density / Viscosity	1.1 g/cm3		
MUD Fluid Loss / PH			
MUD Source Of Sample	Seawater		
RM @ Measured Temperature	0.180 ohm.m @ 30 degC	@	@
RMF @ Measured Temperature	0.235 ohm.m @	@	@
RMC @ Measured Temperature	@	@	@
Source RMF / RMC			
RM @ MRT / RMF @ MRT	0.151 @ 40	@ 40	@ @
Maximum Recorded Temperatures	40 degC		
Circulation Stopped / Time	29-DEC-2000	1:00	
Logger On Bottom / Time	29-DEC-2000	10:00	
Unit Number / Location	99	Houston ODP	
Recorded By	Kerry M. Swain		
Witnessed By	Gerardo Iturrino, Anne Bartetzko		

	Run 1	Run 2	Run
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	OTHER SERVICES2
OS1: FMS	OS1:
OS2:	OS2:
OS3: DITE	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log presented in meters below rig floor. Sea floor at 1700 mbrf.	
Wireline heave compensator used on all descents.	
Sea water used as mud in hole.	
Log TD at 1766 mbrf.	
Maximum temperature recorded from DITE ITEM.	
Toolstring-DITE/DTA/HLDS/NPLC/HNGS/LEHQT	
Original log files are log60.dlis and log62.dlis, they are replaced with	
play83.dlis and play 84.dlis. Reprocessing was done for the HNGS to	
compensate for the correct mud density of 1.1 g/cc.	
No after calibrations were performed to speed rigging down.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 9C1-303
FLUID LEVEL: 0 m

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT

LEH-MT
LEH-MT 1

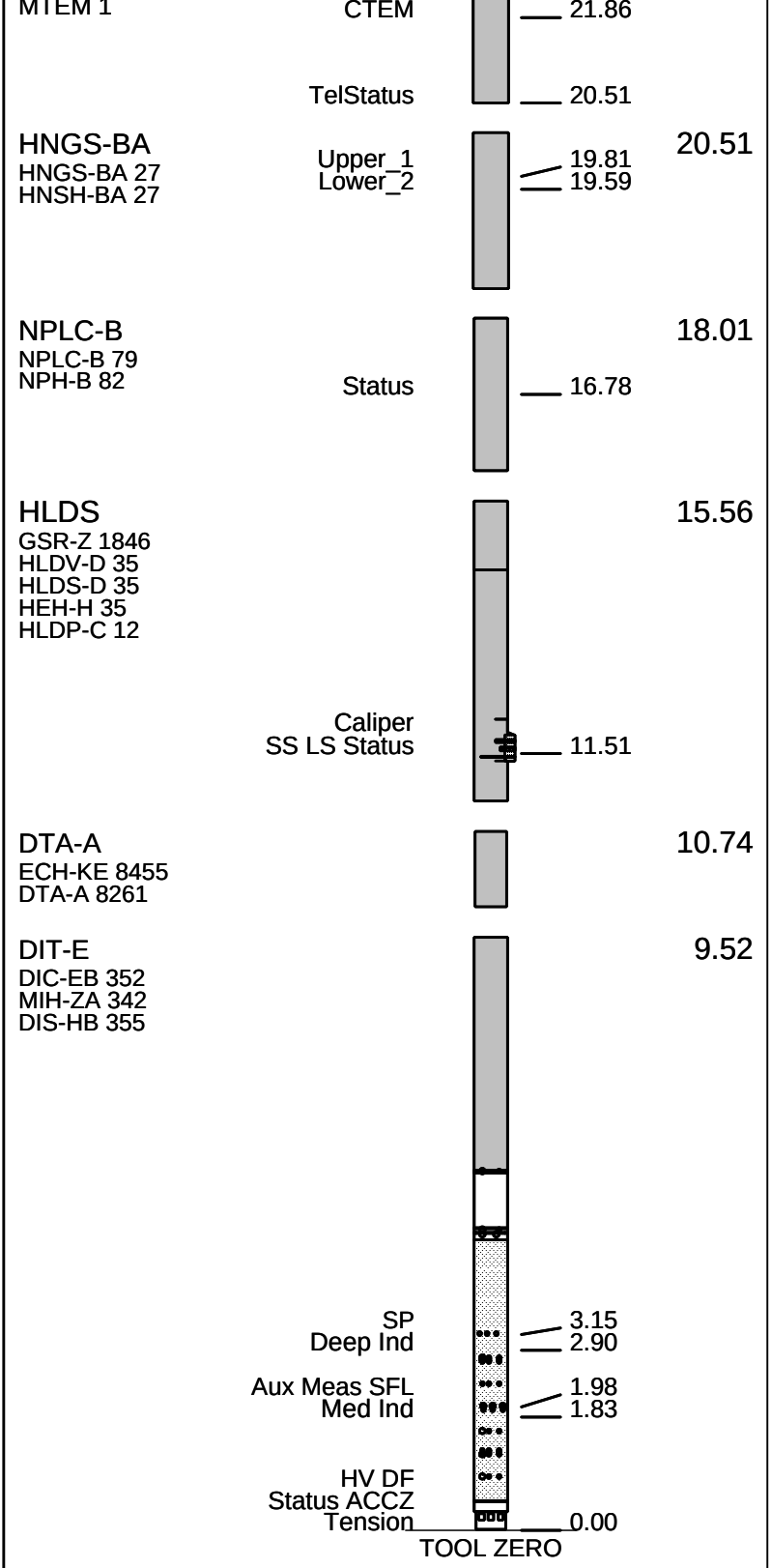
HTGC-B
UDFH-KL 1062
STGC0-A 8038
STGC1-BH 8038

Mud Tempe
Gamma Ray

23.76
22.73

24.72
23.76

RUN 2



MAXIMUM STRING DIAMETER 3.75 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Input DLIS Files

DEFAULT	DITE	.060	FN:5	PRODUCER	29-Dec-2000 09:56	1767.1 M	1697.7 M

Output DLIS Files

DEFAULT	DITE	.083	FN:26	PRODUCER	31-Dec-2000 19:45	1767.1 M	1697.7 M
LAMONT	DITE	.083	FN:27	PRODUCER	31-Dec-2000 19:45	1767.1 M	1697.7 M

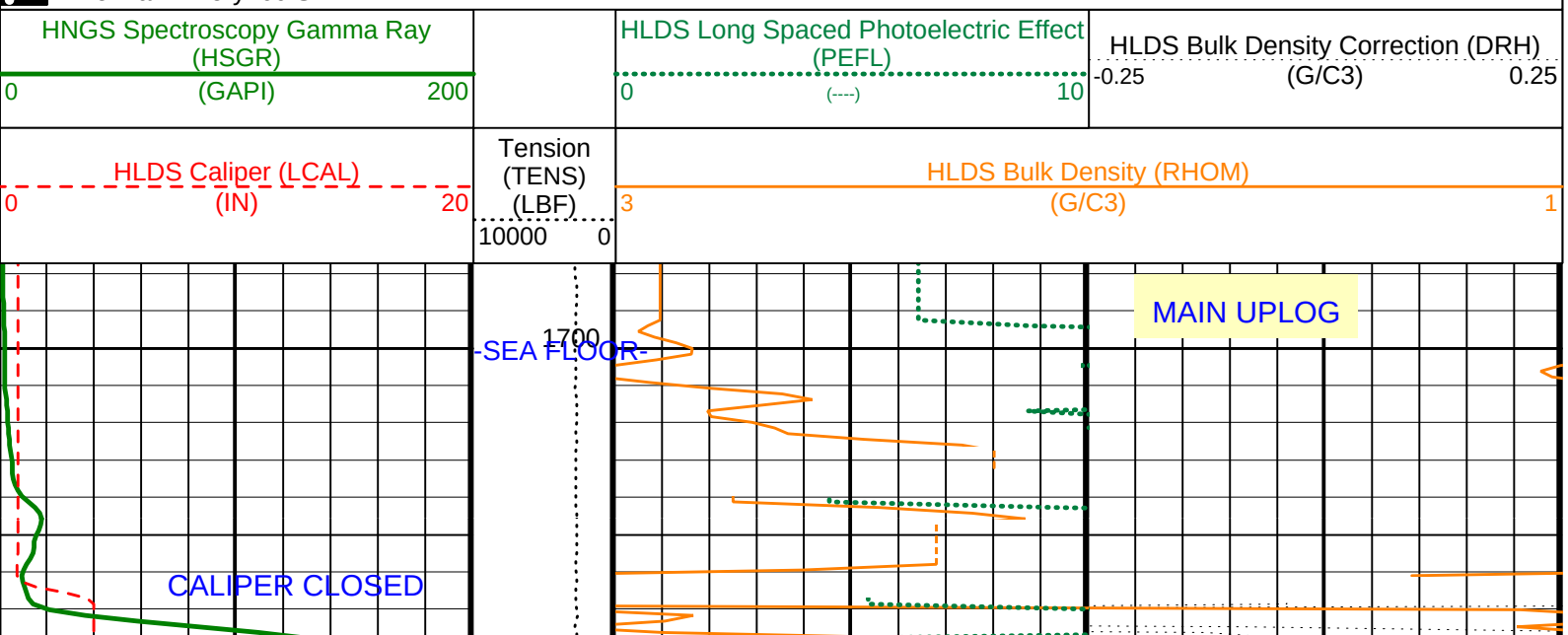
OP System Version: 9C1-303

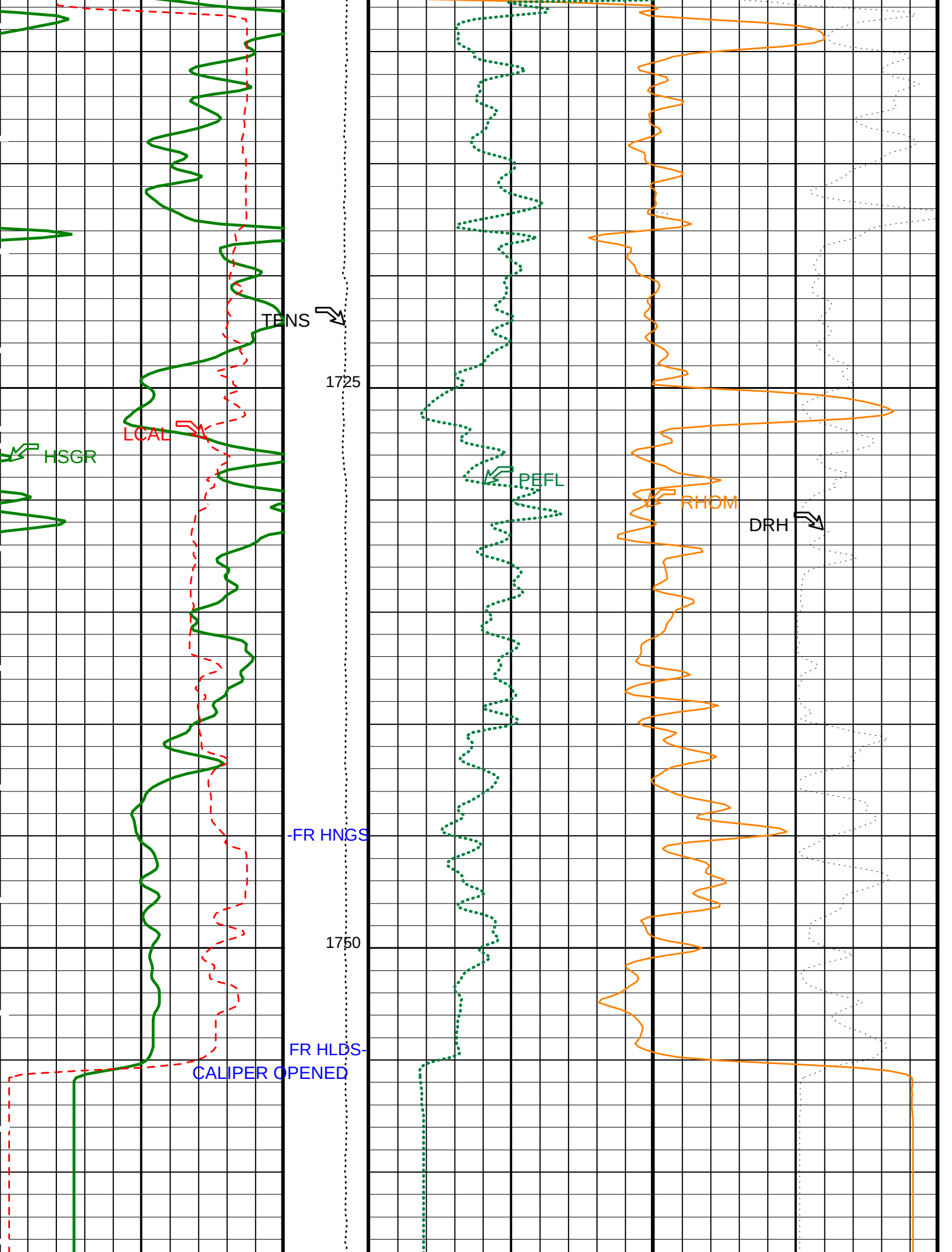
MCM

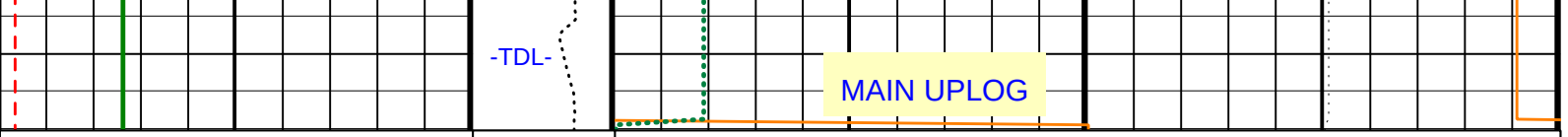
DIT-E	OP91-kp2	DTA-A	OP91-kp2
HLDS	OP91-kp2	NPLC-B	OP91-kp2
HNGS-BA	OP91-kp2	DTC-H	OP91-kp2

PIP SUMMARY

Time Mark Every 60 S




TENS
1725
LCAL
HSGR
PEFL
RHOM
DRH
-FR HNGS
1750
FR HLDS-
CALIPER OPENED



HLDS Caliper (LCAL)	Tension (TENS)	HLDS Bulk Density (RHOM)
0 (IN) 20	(LBF) 10000 0	3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)		HLDS Long Spaced Photoelectric Effect (PEFL)	HLDS Bulk Density Correction (DRH)
0 (GAPI) 200		0 (----) 10	-0.25 (G/C3) 0.25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HLDS SS Tri-Ported Memory State	Enable	
	HLDS Spec Message Rate	1	
	HLDS LS Digital Integrator State	Normal	
	HLDS Diag Message Rate	20	
	HLDS SS NCB Mode	Density	
	HLDS SS Digital Integrator State	Normal	
	HLDS LS Tri-Ported Memory State	Enable	
	HLDS Data Control	AcquiredData	
	HLDS LS NCB Mode	Density	
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
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
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
CONTYP	Conveyance Type	Wireline	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.69015	%
D1TC	HNGS Detector 1 Calibration Temperature	83.0462	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	209.757	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.03497	%
D2TC	HNGS Detector 2 Calibration Temperature	81.4405	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.443	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DEPREM1	Depth Remark 1		
DEPREM2	Depth Remark 2		
DEPREM3	Depth Remark 3		
DEPREM4	Depth Remark 4		
DEPREM5	Depth Remark 5		
DEPREM6	Depth Remark 6		
DFD	Drilling Fluid Density	9.17	LB/G
DGF2	Deep 20 kHz Gain Factor	1.0235	
DHC	Density Hole Correction	BS	
DO	Depth Offset for Logical Unit 1	0.0	M
DPH2	Deep 20 kHz Phase Shift	-0.230754	DEG
DPPM	Density Porosity Processing Mode	HIRS	
DRE2	Deep Real 20 kHz Sonde Error Correction	18.3624	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	-42.2018	MM/M
FD	Fluid Density	1	G/C3
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
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	-0.00186663	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	6.08978e-028	
IDWCD	IDW Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
IDWCSN	IDW Calibrator Serial Number	-999	
IDWLCN	IDW Calibration Cable Type	7-46P	
IDWSN	IDW Serial Number	-999	
IDWTYP	IDW Type	IDW-B	
IDWWC1	IDW Wheel Corrrection 1	1	
IDWWC2	IDW Wheel Corrrection 2	1	
IFRS	DIT-E Induction Frequency Selector	20	
IPHA	DIT-E Phasor Processing Mode	ALL	
IPRO	DIT-E Induction Processing Selector	PHASOR	
ITEN	DIT-E Temperature Enable	ENABLE	
LATC	HLDS Activation Correction	ON	
LCSN	Logging Cable Serial Number	-999	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
LOGSEQ	Log Sequence	First_Log_In_Well	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MGF2	Medium 20 kHz Gain Factor	1.02156	
MPH2	Medium 20 kHz Phase Shift	-1.08578	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	8.9436	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MST	Mud Sample Temperature	30.00	DEGF
MXE2	Medium Quad 20 kHz Sonde Error Correction	-46.3369	MM/M
NOTS	NPLC Old Temperature Sensor	NO	
NRBM	NPLC Reduced Telemetry Bandwidth Mode	OFF	
PBVSADP	Use alternate depth channel for playback	NO	
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PP	Playback Processing	RECOMPUTE	
PSDL	HLDS LS Pulse Shape Compensation DAC	16000	
PSDS	HLDS SS Pulse Shape Compensation DAC	16000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
RIGTYP	Rig Type	Offshore_Floater_with_WMC	
RLDT	Reference Log Date (dd-MMM-yyyy)	dd-MMM-yyyy	
RLNM	Reference Log Name		
RLRN	Reference Log Run Number		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RULB	Rig Up Length at Bottom	0	FT
RULS	Rig Up Length at Surface	0	FT
RW	Resistivity of Connate Water	1.0000	OHMM
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	24.2212	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.984113	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	24.6034	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.982439	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000270422	
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SCORR	Stretch Correction	-50000	FT
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68.0001	DEGF
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV
STDLC	Subsequent Trip Down Log Correction	-50000	FT
TD	Total Depth	32768	FT
TDD	Total Depth - Driller	-50000.00	FT
TDL	Total Depth - Logger	-50000.00	FT
TNDCD	Tension Device Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
TNDCSN	Tension Device Calibrator Serial Number	-999	
TNDGN	Tension Device GAIN	1	
TNDOFF	Tension Device Offset	0	
TNDSN	Tension Device Serial Number	-999	
TNDTYP	Tension Device	CMTD-B/A	
TPOS	Tool Position	ECCE	

TWS	Temperature of Connate Water Sample	100.00	DEGF
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.2162	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.985236	
ZRCS	Tool Zero Reference Check at Surface	-50000	FT

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 31-Dec-2000 19:45

OP System Version: 9C1-303

MCM

DIT-E	OP91-kp2	DTA-A	OP91-kp2
HLDS	OP91-kp2	NPLC-B	OP91-kp2
HNGS-BA	OP91-kp2	DTC-H	OP91-kp2

Input DLIS Files

DEFAULT	DITE	.060	FN:5	PRODUCER	29-Dec-2000 09:56	1767.1 M	1697.7 M

Output DLIS Files

DEFAULT	DITE	.083	FN:26	PRODUCER	31-Dec-2000 19:45		
LAMONT	DITE	.083	FN:27	PRODUCER	31-Dec-2000 19:45		

Input DLIS Files

DEFAULT	DITE	.062	FN:9	PRODUCER	29-Dec-2000 10:17	1767.1 M	1696.1 M

Output DLIS Files

DEFAULT	DITE	.084	FN:28	PRODUCER	31-Dec-2000 19:50	1767.1 M	1696.1 M
LAMONT	DITE	.084	FN:29	PRODUCER	31-Dec-2000 19:50	1767.1 M	1696.1 M

OP System Version: 9C1-303

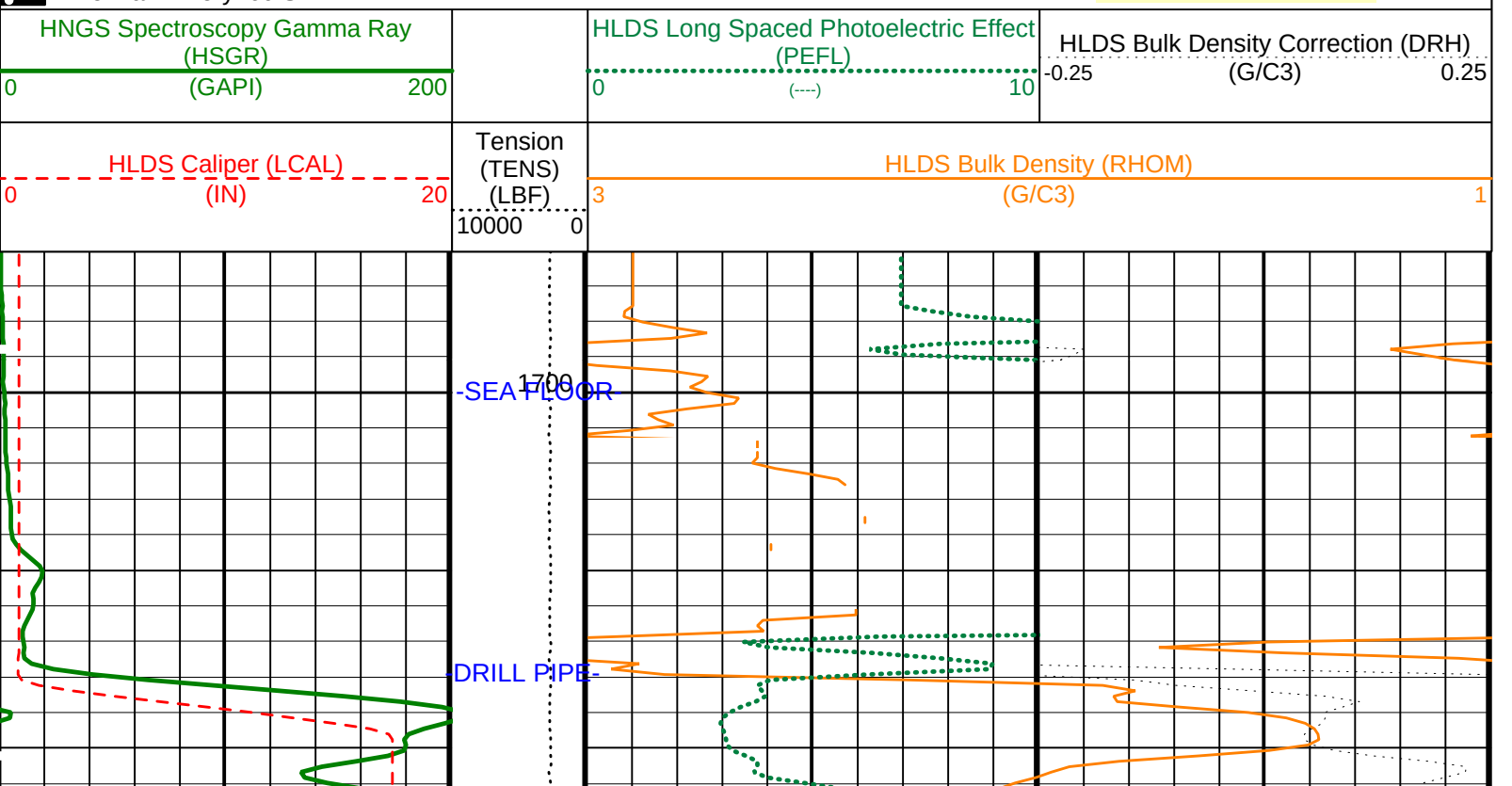
MCM

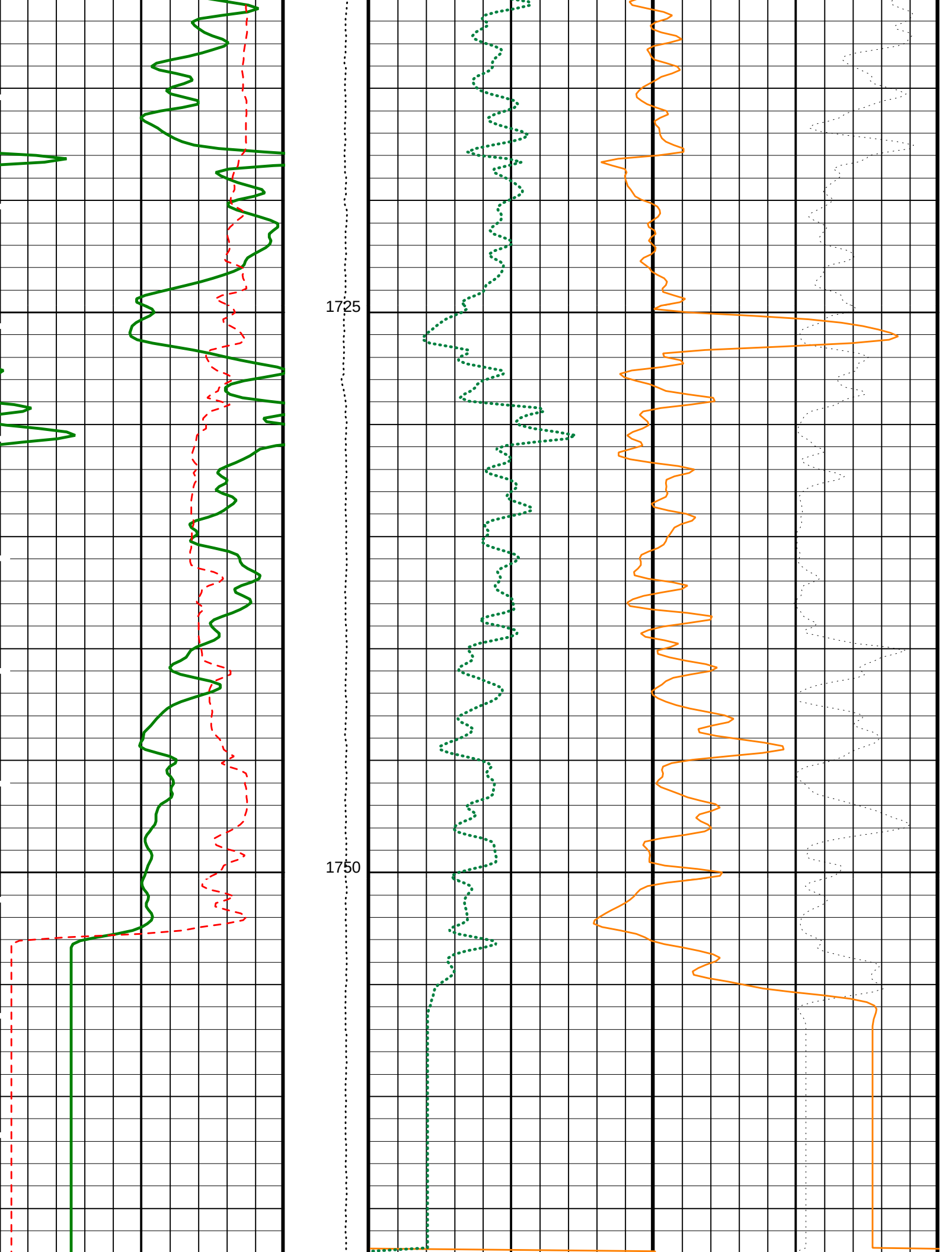
DIT-E	OP91-kp2	DTA-A	OP91-kp2
HLDS	OP91-kp2	NPLC-B	OP91-kp2
HNGS-BA	OP91-kp2	DTC-H	OP91-kp2

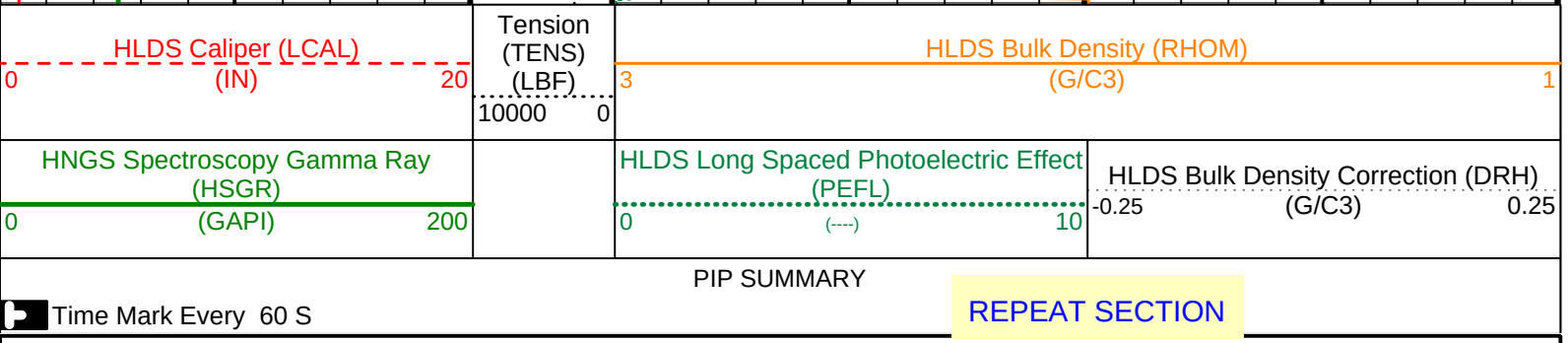
PIP SUMMARY

REPEAT SECTION

Time Mark Every 60 S




1725
1750



PIP SUMMARY

Time Mark Every 60 S

REPEAT SECTION

Parameters

DLIS Name	Description	Value	
	HLDS SS Tri-Ported Memory State	Enable	
	HLDS Spec Message Rate	1	
	HLDS LS Digital Integrator State	Normal	
	HLDS Diag Message Rate	20	
	HLDS SS NCB Mode	Density	
	HLDS SS Digital Integrator State	Normal	
	HLDS LS Tri-Ported Memory State	Enable	
	HLDS Data Control	AcquiredData	
	HLDS LS NCB Mode	Density	
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
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
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
CONTYP	Conveyance Type	Wireline	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.69015	%
D1TC	HNGS Detector 1 Calibration Temperature	83.0462	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	209.757	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.03497	%
D2TC	HNGS Detector 2 Calibration Temperature	81.4405	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.443	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DEPREM1	Depth Remark 1		
DEPREM2	Depth Remark 2		
DEPREM3	Depth Remark 3		
DEPREM4	Depth Remark 4		
DEPREM5	Depth Remark 5		
DEPREM6	Depth Remark 6		
DFD	Drilling Fluid Density	9.17	LB/G
DGF2	Deep 20 kHz Gain Factor	1.0235	
DHC	Density Hole Correction	BS	
DO	Depth Offset for Logical Unit 1	0.0	M
DPH2	Deep 20 kHz Phase Shift	-0.230754	DEG
DPPM	Density Porosity Processing Mode	HIRS	
DRE2	Deep Real 20 kHz Sonde Error Correction	18.3624	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	-42.2018	MM/M
FD	Fluid Density	1	G/C3
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
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	-0.00706549	
HALF	HNGS Alpha Filter Length	60	IN

HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	6.56295e-027	
IDWCD	IDW Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
IDWCSN	IDW Calibrator Serial Number	-999	
IDWLCN	IDW Calibration Cable Type	7-46P	
IDWSN	IDW Serial Number	-999	
IDWTYP	IDW Type	IDW-B	
IDWWC1	IDW Wheel Corrrection 1	1	
IDWWC2	IDW Wheel Corrrection 2	1	
IFRS	DIT-E Induction Frequency Selector	20	
IPHA	DIT-E Phasor Processing Mode	ALL	
IPRO	DIT-E Induction Processing Selector	PHASOR	
ITEN	DIT-E Temperature Enable	ENABLE	
LATC	HLDS Activation Correction	ON	
LCSN	Logging Cable Serial Number	-999	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
LOGSEQ	Log Sequence	First_Log_In_Well	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MDEN	Matrix Density	2.71	G/C3
MGF2	Medium 20 kHz Gain Factor	1.02156	
MPH2	Medium 20 kHz Phase Shift	-1.08578	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	8.9436	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MST	Mud Sample Temperature	30.00	DEGF
MXE2	Medium Quad 20 kHz Sonde Error Correction	-46.3369	MM/M
NOTS	NPLC Old Temperature Sensor	NO	
NRBM	NPLC Reduced Telemetry Bandwidth Mode	OFF	
PBVSADP	Use alternate depth channel for playback	NO	
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PP	Playback Processing	RECOMPUTE	
PSDL	HLDS LS Pulse Shape Compensation DAC	16000	
PSDS	HLDS SS Pulse Shape Compensation DAC	16000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
RIGTYP	Rig Type	Offshore_Floater_with_WMC	
RLDT	Reference Log Date (dd-MMM-yyyy)	dd-MMM-yyyy	
RLNM	Reference Log Name		
RLRN	Reference Log Run Number		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RULB	Rig Up Length at Bottom	0	FT
RULS	Rig Up Length at Surface	0	FT
RW	Resistivity of Connate Water	1.0000	OHMM
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	24.2212	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.984113	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	24.6034	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.982439	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000818593	
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SCORR	Stretch Correction	-50000	FT
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68.0001	DEGF
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV
STDLC	Subsequent Trip Down Log Correction	-50000	FT
TD	Total Depth	32768	FT
TDD	Total Depth - Driller	-50000.00	FT
TDL	Total Depth - Logger	-50000.00	FT
TNDCD	Tension Device Calibration Date (dd-MMM-yyyy)	dd-MMM-yyyy	
TNDCSN	Tension Device Calibrator Serial Number	-999	
TNDGN	Tension Device GAIN	1	
TNDOFF	Tension Device Offset	0	
TNDSN	Tension Device Serial Number	-999	
TNDTYP	Tension Device	CMTD-B/A	
TPOS	Tool Position	ECCE	
TWS	Temperature of Connate Water Sample	100.00	DEGF
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.992159	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.980345	
ZRCS	Tool Zero Reference Check at Surface	-50000	FT

OP System Version: 9C1-303

MCM

DIT-E	OP91-kp2	DTA-A	OP91-kp2
HLDS	OP91-kp2	NPLC-B	OP91-kp2
HNGS-BA	OP91-kp2	DTC-H	OP91-kp2

Input DLIS Files

DEFAULT	DITE	.062	FN:9	PRODUCER	29-Dec-2000 10:17	1767.1 M	1696.1 M

Output DLIS Files

DEFAULT	DITE	.084	FN:28	PRODUCER	31-Dec-2000 19:50
LAMONT	DITE	.084	FN:29	PRODUCER	31-Dec-2000 19:50

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: Calibration out of date 21-SEP-2000 5:35 Before: 26-NOV-2000 9:01							
SS Total Countrate Bkg	1645	1433	1424	N/A	N/A	80.00	CPS
SS HV Measured Bkg	1100	1062	1062	N/A	N/A	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.3	N/A	N/A	1.500	KEV
SS Cs Resolution Bkg	9.000	8.578	8.573	N/A	N/A	1.800	%
LS Total Countrate Bkg	1645	1457	1447	N/A	N/A	80.00	CPS
LS HV Measured Bkg	1100	1181	1181	N/A	N/A	80.00	V
LS Cs Centroid Bkg	661.0	661.2	661.1	N/A	N/A	1.500	KEV
LS Cs Resolution Bkg	9.000	8.815	8.878	N/A	N/A	1.800	%
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 26-NOV-2000 9:01							
HLDS Caliper Small Ring	8.000	N/A	10.23	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	14.22	N/A	N/A	N/A	IN
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 6-OCT-2000 5:44 Before: 21-DEC-2000 9:52							
Na 511 Peak Loc	40.00	40.59	40.60	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.53	17.00	N/A	N/A	2.000	%
High Voltage	1150	1100	1104	N/A	N/A	30.00	V
Na 1785 Peak Loc	142.6	145.1	145.1	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.600	11.14	N/A	N/A	2.000	%
Temperature	15.50	33.94	32.57	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	24.22	22.49	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 6-OCT-2000 5:44 Before: 21-DEC-2000 9:52							
Na 511 Peak Loc	40.00	40.70	40.59	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.05	16.03	N/A	N/A	2.000	%
High Voltage	1150	1189	1194	N/A	N/A	30.00	V
Na 1785 Peak Loc	142.6	145.1	145.7	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	7.959	8.040	N/A	N/A	2.000	%
Temperature	15.50	33.01	31.76	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	24.60	22.72	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 6-OCT-2000 5:44 Before: 21-DEC-2000 9:52							
Coincidence Count Rate Ratio	1.000	0.9848	0.9904	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration							
Master: 6-OCT-2000 5:36							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.4	--	--	--	--	
Th Peak Res	7.000	8.367	--	--	--	--	%
Background Count Rate	142.5	14.06	--	--	--	--	CPS
Gain Ratio	1.000	0.9908	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration							
Master: 6-OCT-2000 5:36							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.2					

Th Peak Loc	209.6	210.2	--	--	--	--	
Th Peak Res	7.000	7.339	--	--	--	--	%
Background Count Rate	142.5	15.63	--	--	--	--	CPS
Gain Ratio	1.000	0.9828	--	--	--	--	

Dual Induction - E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS - HB	355
Dual Induction Cartridge	DIC - EB	352
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	342

Dual Induction - E Wellsite Calibration

Induction Electronics (10 kHz)

Phase	ID Elect Real Offset 10 kHz MM/M	Value
Before		35.83
-266.2 (Minimum)	33.79 (Nominal)	333.8 (Maximum)

Phase	ID Elect Real Gain 10 kHz	Value
Before		0.9728
0.8284 (Minimum)	0.9784 (Nominal)	1.170 (Maximum)

Phase	ID Elect Phase 10 kHz DEG	Value
Before		8.859
-0.7745 (Minimum)	9.225 (Nominal)	19.23 (Maximum)

Phase	ID Elect Quad Offset 10 kHz MM/M	Value
Before		56.03
-279.1 (Minimum)	20.94 (Nominal)	320.9 (Maximum)

Phase	ID Elect Quad Gain 10 kHz	Value
Before		0.9791
0.8369 (Minimum)	0.9869 (Nominal)	1.181 (Maximum)

Phase	IM Elect Phase 10 kHz DEG	Value
Before		8.369
-1.166 (Minimum)	8.834 (Nominal)	18.83 (Maximum)

Phase	IM Elect Real Offset 10 kHz MM/M	Value
Before		83.29
-467.5 (Minimum)	82.54 (Nominal)	632.5 (Maximum)

Phase	IM Elect Real Gain 10 kHz	Value
Before		0.9442
0.8031 (Minimum)	0.9531 (Nominal)	1.134 (Maximum)

Phase	IM Elect Quad Offset 10 kHz MM/M	Value
Before		44.02
-506.2 (Minimum)	43.79 (Nominal)	593.8 (Maximum)

Phase	IM Elect Quad Gain 10 kHz	Value
Before		0.9278
0.7903 (Minimum)	0.9403 (Nominal)	1.116 (Maximum)

Before: Calibration out of date 19-AUG-1998 18:34

Dual Induction - E Wellsite Calibration

Induction Electronics (20 kHz)

Phase	ID Elect Real Offset 20 kHz MM/M	Value
Before		12.55
-111.7 (Minimum)	13.30 (Nominal)	138.3 (Maximum)

Phase	ID Elect Real Gain 20 kHz	Value
Before		0.9893
0.8456 (Minimum)	0.9956 (Nominal)	1.194 (Maximum)

Phase	ID Elect Phase 20 kHz DEG	Value
Before		6.814
-7.217 (Minimum)	7.783 (Nominal)	22.78 (Maximum)

Phase	ID Elect Quad Offset 20 kHz MM/M	Value
Before		10.79
-116.7 (Minimum)	8.308 (Nominal)	133.3 (Maximum)

Phase	ID Elect Quad Gain 20 kHz	Value
Before		0.9991
0.8568 (Minimum)	1.007 (Nominal)	1.210 (Maximum)

Phase	IM Elect Phase 20 kHz DEG	Value
Before		6.388
-7.866 (Minimum)	7.134 (Nominal)	22.13 (Maximum)

Phase	IM Elect Real Offset 20 kHz MM/M	Value
Before		32.12
-192.0 (Minimum)	32.95 (Nominal)	258.0 (Maximum)

Phase	IM Elect Real Gain 20 kHz	Value
Before		0.9529
0.8169 (Minimum)	0.9669 (Nominal)	1.153 (Maximum)

Phase	IM Elect Quad Offset 20 kHz MM/M	Value
Before		17.02
-207.5 (Minimum)	17.51 (Nominal)	242.5 (Maximum)

Phase	IM Elect Quad Gain 20 kHz	Value
Before		0.9381
0.8037 (Minimum)	0.9537 (Nominal)	1.135 (Maximum)

Before: 26-DEC-2000 6:51

Dual Induction - E Wellsite Calibration

Induction Electronics (40 kHz)

Phase	ID Elect Real Offset 40 kHz MM/M	Value
Before		9.377
-76.21 (Minimum)	8.795 (Nominal)	93.79 (Maximum)

Phase	ID Elect Real Gain 40 kHz	Value
Before		0.9951
0.8403 (Minimum)	0.9903 (Nominal)	1.186 (Maximum)

Phase	ID Elect Phase 40 kHz DEG	Value
Before		25.34
3.750 (Minimum)	23.75 (Nominal)	43.75 (Maximum)

Phase	ID Elect Quad Offset 40 kHz MM/M	Value
Before		15.23
-79.47 (Minimum)	5.533 (Nominal)	90.53 (Maximum)

Phase	ID Elect Quad Gain 40 kHz	Value
Before		1.000
0.8595 (Minimum)	1.009 (Nominal)	1.213 (Maximum)

Phase	IM Elect Phase 40 kHz DEG	Value
Before		24.79
3.199 (Minimum)	23.20 (Nominal)	43.20 (Maximum)

Phase	IM Elect Real Offset 40 kHz MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value
Before		21.35	Before		0.9612
	-109.0 (Minimum) 21.03 (Nominal) 151.0 (Maximum)			0.8111 (Minimum) 0.9611 (Nominal) 1.145 (Maximum)	
Phase	IM Elect Quad Offset 40 kHz MM/M	Value	Phase	IM Elect Quad Gain 40 kHz	Value
Before		11.43	Before		0.9440
	-118.8 (Minimum) 11.24 (Nominal) 141.2 (Maximum)			0.7976 (Minimum) 0.9476 (Nominal) 1.126 (Maximum)	

Before: Calibration out of date 19-AUG-1998 18:36

Dual Induction - E Wellsite Calibration

SFL Electronics

Phase	SFL Voltage Offset MV	Value	Phase	SFL Voltage Gain	Value
Before		0.09040	Before		0.9947
	-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	
Phase	SFL Current Offset MA	Value	Phase	SFL Current Gain	Value
Before		0.03114	Before		1.005
	-0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)	

Before: 26-DEC-2000 6:52

Dual Induction - E Master Calibration

Test Loop Calibration: Calibration of Internal Reference to Test Loop Standard

Phase	Deep 10 kHz Gain Factor	Value	Phase	Deep 20 kHz Gain Factor	Value	Phase	Deep 40 kHz Gain Factor	Value
Master		1.010	Master		1.023	Master		1.044
	0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)			0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)			0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)	
Phase	Medium 10 kHz Gain Factor	Value	Phase	Medium 20 kHz Gain Factor	Value	Phase	Medium 40 kHz Gain Factor	Value
Master		1.017	Master		1.022	Master		1.042
	0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)			0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)			0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)	
Phase	Deep 10 kHz Phase Shift	Value	Phase	Deep 20 kHz Phase Shift	Value	Phase	Deep 40 kHz Phase Shift	Value
Master		0.05099	Master		-0.2308	Master		-1.484
	-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)			-2.000 (Minimum) 0 (Nominal) 2.000 (Maximum)			-4.000 (Minimum) -1.000 (Nominal) 2.000 (Maximum)	
Phase	Medium 10 kHz Phase Shift	Value	Phase	Medium 20 kHz Phase Shift	Value	Phase	Medium 40 kHz Phase Shift	Value
Master		-0.3767	Master		-1.086	Master		-2.610
	-1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)			-3.000 (Minimum) -1.000 (Nominal) 1.000 (Maximum)			-5.000 (Minimum) -2.000 (Nominal) 1.000 (Maximum)	

Master: Calibration out of date 23-OCT-1998 20:57

Dual Induction - E Master Calibration

Sonde Error Corrections: Correction for sonde response in zero conductivity environment. (Normalized to 25C).

Phase	Real Deep 10 kHz S.E. Corr.	Value	Phase	Real Deep 20 kHz S.E. Corr.	Value	Phase	Real Deep 40 kHz S.E. Corr.	Value
Master		38.86	Master		18.36	Master		7.201
	-50.00 (Minimum) 0 (Nominal) 125.0 (Maximum)			-30.00 (Minimum) 0 (Nominal) 30.00 (Maximum)			-15.00 (Minimum) 0 (Nominal) 15.00 (Maximum)	
Phase	Quad Deep 10 kHz S.E. Corr.	Value	Phase	Quad Deep 20 kHz S.E. Corr.	Value	Phase	Quad Deep 40 kHz S.E. Corr.	Value
Master		-112.2	Master		-42.20	Master		-2.651
	-250.0 (Minimum) 0 (Nominal) 350.0 (Maximum)			-125.0 (Minimum) 0 (Nominal) 200.0 (Maximum)			-75.00 (Minimum) 0 (Nominal) 125.0 (Maximum)	
Phase	Real Medium 10 kHz S.E. Corr.	Value	Phase	Real Medium 20 kHz S.E. Corr.	Value	Phase	Real Medium 40 kHz S.E. Corr.	Value
Master		43.35	Master		8.944	Master		-1.864
	-50.00 (Minimum) 0 (Nominal) 140.0 (Maximum)			-50.00 (Minimum) 0 (Nominal) 50.00 (Maximum)			-30.00 (Minimum) 0 (Nominal) 30.00 (Maximum)	
Phase	Quad Medium 10 kHz S.E. Corr.	Value	Phase	Quad Medium 20 kHz S.E. Corr.	Value	Phase	Quad Medium 40 kHz S.E. Corr.	Value
Master		-125.2	Master		-46.34	Master		3.123
	-1300 (Minimum) 0 (Nominal) 1300 (Maximum)			-650.0 (Minimum) 0 (Nominal) 650.0 (Maximum)			-350.0 (Minimum) 0 (Nominal) 350.0 (Maximum)	

Master: Calibration out of date 23-OCT-1998 21:07

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	35
Gamma Source Radioactive	GSR - Z	1846
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP - C	12
Hostile Litho Density High Voltage Housi	HEH - H	35

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Total Countrate Bkg CPS	Value
Master		1433
Before		1424

1000 (Minimum) 1645 (Nominal) 2290 (Maximum)

Phase	SS HV Measured Bkg V	Value
Master		1062
Before		1062

800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)

Phase	SS PSC DAC Value Bkg	Value
Master		16760
Before		16790

14100 (Minimum) 16000 (Nominal) 20000 (Maximum)

Phase	SS Cs Centroid Bkg KEV	Value
Master		661.3
Before		661.3

656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)

Phase	SS Cs Resolution Bkg %	Value
Master		8.578
Before		8.573

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	LS Total Countrate Bkg CPS	Value
Master		1457
Before		1447

1000 (Minimum) 1645 (Nominal) 2290 (Maximum)

Phase	LS HV Measured Bkg V	Value
Master		1181
Before		1181

800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)

Phase	LS PSC DAC Value Bkg	Value
Master		18320
Before		18370

14100 (Minimum) 16000 (Nominal) 20000 (Maximum)

Phase	LS Cs Centroid Bkg KEV	Value
Master		661.2
Before		661.1

656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.815
Before		8.878

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	LSW1 Background CPS	Value
Master		88.11
Before		86.99

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	LSW2 Background CPS	Value
Master		80.49
Before		79.85

50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)

Phase	LSW3 Background CPS	Value
Master		179.9
Before		178.1

110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		217.8
Before		215.7

140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		500.3
Before		497.4

330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)

Phase	SSW1 Background CPS	Value
Master		87.70
Before		86.54

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		155.5
Before		155.0

100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		417.1
Before		413.2

280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		222.8
Before		220.8

150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		161.8
Before		161.1

110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)

Master: Calibration out of date 21-SEP-2000 5:35 Before: 26-NOV-2000 9:01

Hostile Litho-Density Sonde Master Calibration

Detector Background Measurement

Phase	LSW1 Background CPS	Value
Master		88.11

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	LSW2 Background CPS	Value
Master		80.49

50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)

Phase	LSW3 Background CPS	Value
Master		179.9

110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		217.8

140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		500.3

330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.815

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	SSW1 Background CPS	Value
Master		87.70

55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		155.5

100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		417.1

280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		222.8
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)	

Phase	SSW5 Background CPS	Value
Master		161.8
	110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

Phase	SS Cs Resolution Bkg %	Value
Master		8.578
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Master: Calibration out of date 21-SEP-2000 5:35

Hostile Litho-Density Sonde Master Calibration

Detector Aluminum Measurement (bkgd-subtracted)

Phase	LSW1 Aluminum CPS	Value
Master		601.2
	420.0 (Minimum) 600.0 (Nominal) 700.0 (Maximum)	

Phase	LSW2 Aluminum CPS	Value
Master		873.6
	650.0 (Minimum) 900.0 (Nominal) 1050 (Maximum)	

Phase	LSW3 Aluminum CPS	Value
Master		1045
	800.0 (Minimum) 1100 (Nominal) 1300 (Maximum)	

Phase	LSW4 Aluminum CPS	Value
Master		521.1
	410.0 (Minimum) 580.0 (Nominal) 670.0 (Maximum)	

Phase	LSW5 Aluminum CPS	Value
Master		496.0
	410.0 (Minimum) 570.0 (Nominal) 660.0 (Maximum)	

Phase	LS Cs Resolution Al %	Value
Master		8.861
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	SSW1 Aluminum CPS	Value
Master		2319
	2000 (Minimum) 2800 (Nominal) 3200 (Maximum)	

Phase	SSW2 Aluminum CPS	Value
Master		6767
	5800 (Minimum) 8000 (Nominal) 9300 (Maximum)	

Phase	SSW3 Aluminum CPS	Value
Master		9888
	8300 (Minimum) 11600 (Nominal) 13500 (Maximum)	

Phase	SSW4 Aluminum CPS	Value
Master		4299
	3500 (Minimum) 5000 (Nominal) 5800 (Maximum)	

Phase	SSW5 Aluminum CPS	Value
Master		625.3
	470.0 (Minimum) 660.0 (Nominal) 770.0 (Maximum)	

Phase	SS Cs Resolution Al %	Value
Master		8.572
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Master: Calibration out of date 21-SEP-2000 7:27

Hostile Litho-Density Sonde Master Calibration

Detector Litholog Measurement (bkgd-subtracted)

Phase	LSW1 Iron CPS	Value
Master		397.9
	290.0 (Minimum) 400.0 (Nominal) 470.0 (Maximum)	

Phase	LSW2 Iron CPS	Value
Master		694.7
	520.0 (Minimum) 730.0 (Nominal) 850.0 (Maximum)	

Phase	LSW3 Iron CPS	Value
Master		924.5
	720.0 (Minimum) 1000 (Nominal) 1160 (Maximum)	

Phase	LSW4 Iron CPS	Value
Master		477.2
	370.0 (Minimum) 520.0 (Nominal) 600.0 (Maximum)	

Phase	LSW5 Iron CPS	Value
Master		463.2
	340.0 (Minimum) 470.0 (Nominal) 550.0 (Maximum)	

Phase	LS Cs Resolution Al + Fe %	Value
Master		8.823
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	SSW1 Iron CPS	Value
Master		1735
	1500 (Minimum) 2100 (Nominal) 2400 (Maximum)	

Phase	SSW2 Iron CPS	Value
Master		5690
	4900 (Minimum) 6800 (Nominal) 7900 (Maximum)	

Phase	SSW3 Iron CPS	Value
Master		9124
	7800 (Minimum) 10800 (Nominal) 12600 (Maximum)	

Phase	SSW4 Iron CPS	Value
Master		3979
	3300 (Minimum) 4600 (Nominal) 5400 (Maximum)	

Phase	SSW5 Iron CPS	Value
Master		565.0
	420.0 (Minimum) 580.0 (Nominal) 680.0 (Maximum)	

Phase	SS Cs Resolution Al + Fe %	Value
Master		8.472
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Master: Calibration out of date 21-SEP-2000 7:21

Hostile Litho-Density Sonde Master Calibration

Quality Ratios

Phase	AL CALIBRATION RATIO 1	Value
Master		1.027
	0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)	

Phase	AL CALIBRATION RATIO 2	Value
Master		2.008
	1.800 (Minimum) 2.000 (Nominal) 2.200 (Maximum)	

Phase	AL CALIBRATION RATIO 3	Value
Master		0.5910
	0.4500 (Minimum) 0.5500 (Nominal) 0.6500 (Maximum)	

Phase	AL CALIBRATION RATIO 4	Value
Master		0.4709
	0.4000 (Minimum) 0.5000 (Nominal) 0.6000 (Maximum)	

Phase	Pad-Wear SS Ratio	Value
Master		0.9816
	0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)	

Phase	Pad-Wear LS Ratio	Value
Master	EXCEEDS LIMIT	0.9591
	0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)	

Phase	Pad-Position SS Ratio	Value
Master	EXCEEDS LIMIT	0.8860
	0.9900 (Minimum) 0.9940 (Nominal) 1.015 (Maximum)	

Phase	Pad-Position LS Ratio	Value
Master	EXCEEDS LIMIT	0.8263
	0.9850 (Minimum) 0.9940 (Nominal) 1.010 (Maximum)	

Master: Calibration out of date 21-SEP-2000 7:17

PAD WEAR NOT USED IN HLDS MEASUREMENT CALIBRATION.

Nuclear Porosity Lithology Cartridge - B / Equipment Identification

Primary Equipment:		
NPLC Cartridge	NPLC - B	79
Auxiliary Equipment:		
NPLC Housing	NPH - B	82

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS - BA	27
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH - BA	27
Gamma Source Radioactive	GSR - U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration
Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		40.59
Before		40.60
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		16.53
Before		17.00
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1100
Before		1104
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		145.1
Before		145.1
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		9.600
Before	EXCEEDS LIMIT	11.14
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		33.94
Before		32.57
	-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		24.22
Before		22.49
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 6-OCT-2000 5:44 Before: 21-DEC-2000 9:52

Hostile Natural Gamma Ray Sonde Wellsite Calibration
Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		40.70
Before		40.59
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)	

Phase	Na 511 Peak Res %	Value
Master		15.05
Before		16.03
	12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)	

Phase	High Voltage V	Value
Master		1189
Before		1194
	900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	

Phase	Na 1785 Peak Loc	Value
Master		145.1
Before		145.7
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)	

Phase	Na 1785 Peak Res %	Value
Master		7.959
Before		8.040
	7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)	

Phase	Temperature DEGC	Value
Master		33.01
Before		31.76
	-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	

Phase	Na Count Rate CPS	Value
Master		24.60
Before		22.72
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 6-OCT-2000 5:44 Before: 21-DEC-2000 9:52

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

Phase	Coincidence Count Rate Ratio	Value
Master		0.9848
Before		0.9904
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 6-OCT-2000 5:44

Master: 6-OCT-2000 5:44

Before: 21-DEC-2000 9:52

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 1 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		211.4	Master		8.367
	38.00 (Minimum) 40.00 (Nominal) 42.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master	EXCEEDS LIMIT	14.06	Master		0.9908			
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				

Master: 6-OCT-2000 5:36

WEAK BACKGROUND COUNT RATE DUE TO WEAK INTERNAL SOURCE FOR BACKGROUND ONLY.

Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		210.2	Master		7.339
	38.00 (Minimum) 40.00 (Nominal) 42.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master	EXCEEDS LIMIT	15.63	Master		0.9828			
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				

Master: 6-OCT-2000 5:36

COMPANY: Lamont Doherty

WELL: ODP Leg 193, Site 1189C (PCM-3A)

FIELD: Manus Basin, Roman Ruins

COUNTY: Offshore

STATE: Bismarck Sea

BOTTOM LOG INTERVAL	1766 m
SCHLUMBERGER DEPTH	1766 m
DEPTH DRILLER	1866 m
KELLY BUSHING	11.3 m
DRILL FLOOR	11 m
GROUND LEVEL	-1700 m

Schlumberger

HLDS Density
Natural Gamma Ray