Schlumberger

Company:	**Lamont Doherty**
Well:	**NGHP–01–14A**
Field:	
RIG	**Joides Resolution** Ocean **Bengal Bay**

Hostile Natural Gamma–Ray Tool

RIG: Joides Resolution
Field:
Location:
Well: NGHP–01–14A
Company: Lamont Doherty

LOCATION

		Elev.:	K.B. 11.3 m G.L. –906 m D.F. 11.3 m
Permanent Datum:	Mean Sea Level	Elev.:	0 m
Log Measured From:	Drill Floor	11.3 m	above Perm. Datum
Drilling Measured From:	Drill FLoor		

API Serial No.	Latitude	Longitude	
	16* 03.5577' N	82* 05.6218' E	

Logging Date	12–Jul–2006	
Run Number	One	
Depth Driller	1086 m	
Schlumberger Depth	1087 m	
Bottom Log Interval	1087 m	
Top Log Interval	909 m	
Casing Driller Size @ Depth	0.000 in @ 974 m	@
Casing Schlumberger	976 m	
Bit Size	11.438 in	
Type Fluid In Hole	Sepiolite	
MUD Density / Viscosity	1.06645 g/cm3	
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	11–Jul–2006 21:00	
Logger On Bottom / Time	12–Jul–2006 6:08	
Unit Number / Location	2082 Webster, TX	
Recorded By	Javier Espinosa	
Witnessed By	Gilles Guerin, Golam Sarker	

	Run 1	Run 2	Run 3	Run 4
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				

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED–DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED–DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED–DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED–DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1: DITE	OS1:
OS2: HLDS	OS2:
OS3: APS	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
All parameters and presentations as per client request	
Tool ran as per tool sketch below	
HLDS caliper closed at 1002 mbrf to avoid tool damage	

RUN 1	RUN 2
SERVICE ORDER #:	SERVICE ORDER #:
PROGRAM VERSION: 12C0–301	PROGRAM VERSION:
FLUID LEVEL:	FLUID LEVEL:

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

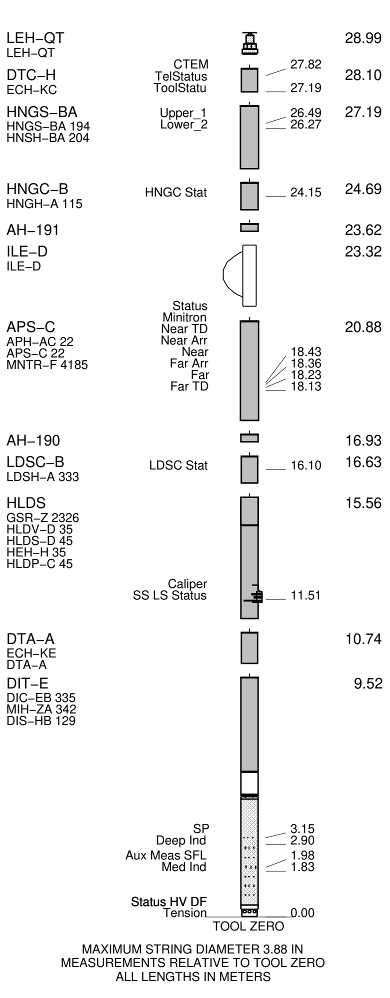
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

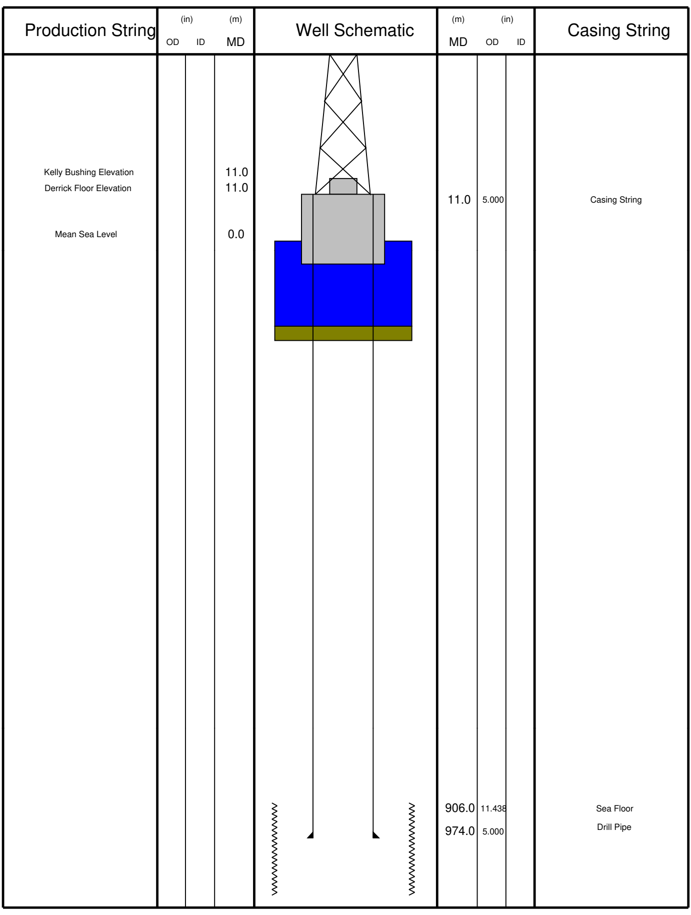
SURFACE EQUIPMENT

SFT–281 6250
SFT–178 6250
GSR–U 135
WITM (DTS)–A

DOWNHOLE EQUIPMENT


LEH–QT
LEH–QT
28.99
DTC–H
ECH–KC
CTEM
TelStatus
ToolStatu
27.82
27.19
28.10
HNGS–BA
HNGS–BA 194
HNSH–BA 204
Upper_1
Lower_2
26.49
26.27
27.19
HNGC–B
HNGH–A 115
HNGC Stat
24.15
24.69
AH–191
23.62
ILE–D
ILE–D
23.32
APS–C
APH–AC 22
APS–C 22
MNTR–F 4185
Status
Minitron
Near TD
Near Arr
Near
Far Arr
Far
Far TD
18.43
18.36
18.23
18.13
20.88
AH–190
16.93
LDSC–B
LDSH–A 333
LDSC Stat
16.10
16.63
HLDS
GSR–Z 2326
HLDV–D 35
HLDS–D 45
HEH–H 35
HLDP–C 45
Caliper
SS LS Status
11.51
15.56
DTA–A
ECH–KE
DTA–A
10.74
DIT–E
DIC–EB 335
MIH–ZA 342
DIS–HB 129
9.52
SP
Deep Ind
Aux Meas SFL
Med Ind
3.15
2.90
1.98
1.83
Status HV DF
Tension
0.00
TOOL ZERO

MAXIMUM STRING DIAMETER 3.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS


Production String
(in)
OD
ID
(m)
MD
Well Schematic
(m)
MD
(in)
OD
ID
Casing String
Kelly Bushing Elevation
11.0
Derrick Floor Elevation
11.0
Mean Sea Level
0.0
11.0
5.000
Casing String
906.0
11.438
Sea Floor
974.0
5.000
Drill Pipe

Schlumberger

MAIN PASS

MAXIS Field Log

Company: Lamont Doherty **Well: NGHP–01–14A**

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_006LUP	FN:6	PRODUCER	12–Jul–2006 06:03	1088.1 M	862.4 M
REDUCED	PI_LDL_APS_NGS_006LUP	FN:7	PRODUCER	12–Jul–2006 06:03	1088.1 M	862.4 M

OP System Version: 12C0–301

MCM

DIT–E	12C0–301	DTA–A	12C0–301
HLDS	SPC–2602–NUCL	LDSC–B	SPC–2602–NUCL
APS–C	SPC–2602–NUCL	HNGC–B	SPC–2602–NUCL
HNGS–BA	SPC–2602–NUCL	DTC–H	12C0–301

PIP SUMMARY

■ Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 100

Area1 From HCGR to HSGR

HNGS Borehole Potassium (HBHK) –0.05 (V/V) 0.05

HNGS Computed Gamma Ray (HCGR) 0 (GAPI) 100

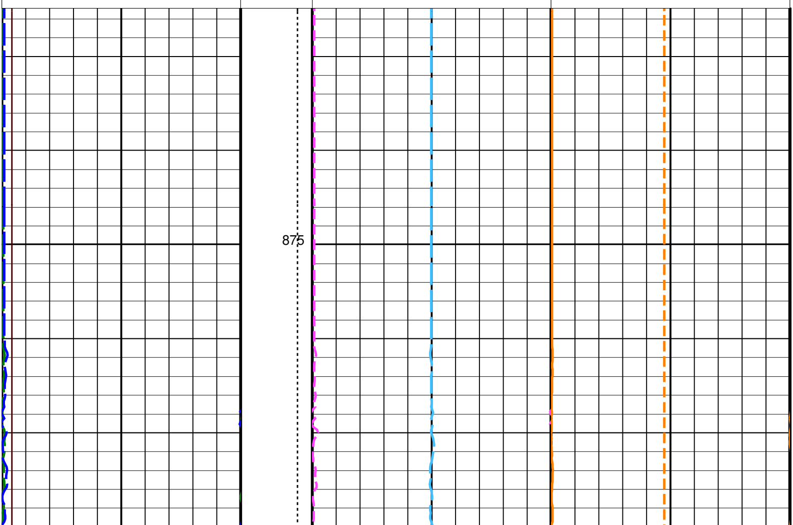
HNGS Uranium (HURA) –10 (PPM) 30

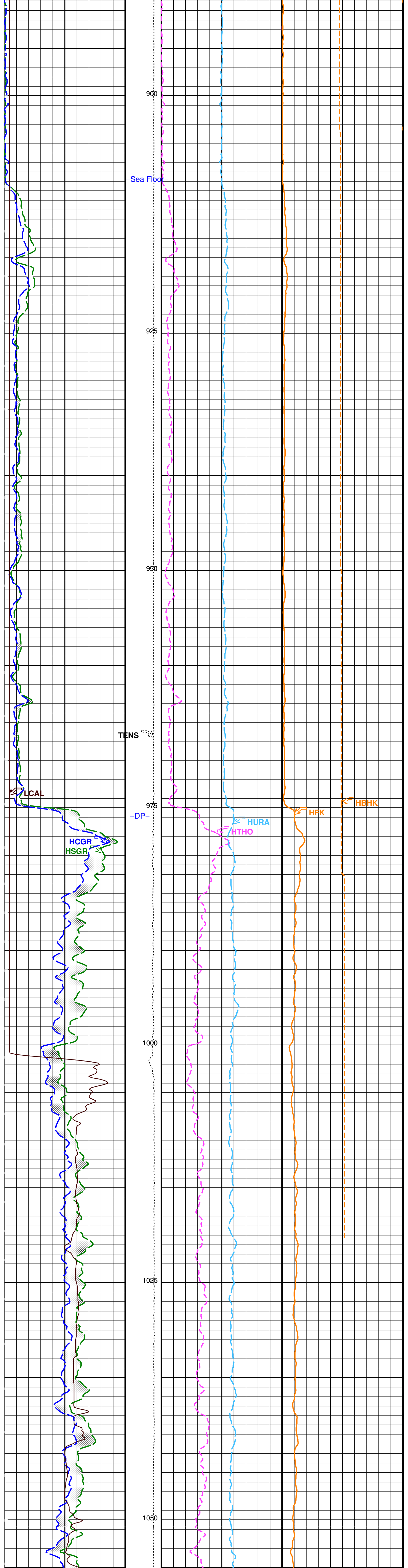
HLDS Caliper (LCAL) 0 (IN) 20

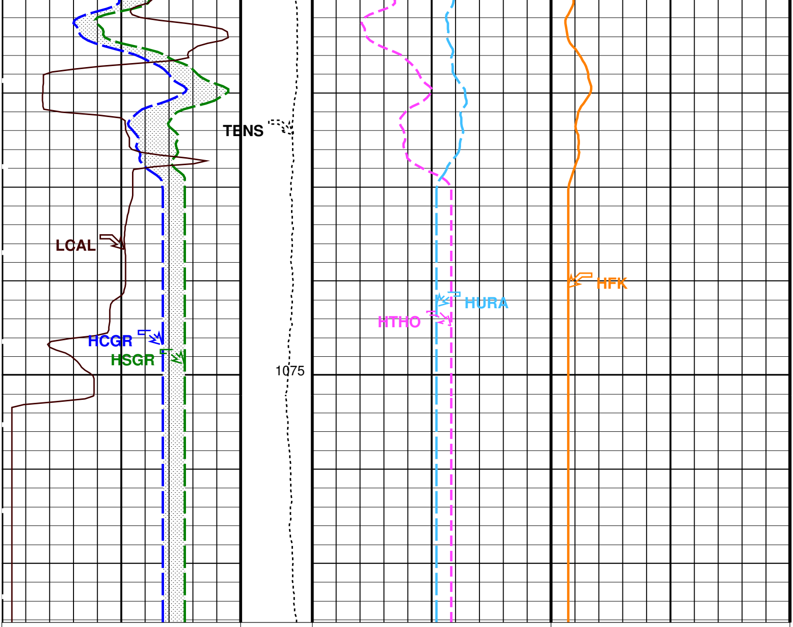
Tension (TENS) (LBF) 10000 0

HNGS Thorium (HTHO) 0 (PPM) 30

HNGS Potassium (HFK) 0 (V/V) 0.1







HLDS Caliper (LCAL)
0 (IN) 20

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

Area1
From HCGR to HSGR

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Uranium (HURA)
−10 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

PIP SUMMARY

▮ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DIT–E: Dual Induction – E			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
APS–C: Accelerator–Porosity Tool			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HNGS–BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	−0.00240838	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma–Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.883382	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.918483	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.07	G/C3

Format: HNGSYields   Vertical Scale: 1:200   Graphics File Created: 12–Jul–2006 06:03

OP System Version: 12C0–301

MCM

DIT–E	12C0–301	DTA–A	12C0–301
HLDS	SPC–2602–NUCL	LDSC–B	SPC–2602–NUCL
APS–C	SPC–2602–NUCL	HNGC–B	SPC–2602–NUCL
HNGS–BA	SPC–2602–NUCL	DTC–H	12C0–301

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_006LUP	FN:6	PRODUCER	12–Jul–2006 06:03
REDUCED	PI_LDL_APS_NGS_006LUP	FN:7	PRODUCER	12–Jul–2006 06:03

Company:	**Lamont Doherty**
Well:	**NGHP–01–14A**
Field:	
RIG	**Joides Resolution**
Ocean	**Bengal Bay**

Schlumberger

Hostile Natural Gamma–Ray Tool