

Company: **LDEO Borehole Research Group**

Well: **1188B** **PCM-2A**

Field: **Eastern Manus Back Arc Basin**

Rig: **JOIDES Resolution**

Rig: JOIDES Resolution Field: Eastern Manus Back Arc Basin Location: Bismarck Sea, PNG Well: 1188B Company: LDEO Borehole Research Group	Schlumberger		RAB Deep Button Image Measured Depth Scale 1:200			
			Total depth:	1725 m	Elevation	K.B.
Location		Spud date:	25 Nov 00	G.L.		-1642.1 m
		Runs:	1 To 1	D.F.	10.5 m	
		Permanent datum:	Mean Sea Level	Elev.:	Kelly Bushing	
		Log measured from:	Top of kelly bushing	10.9 m	above Perm. datum	
		Depth reference:	Driller's Pipe Tally			
API serial no.		Logging Services:	Longitude	Latitude		
		RAB	E 151 40.1981'	S 03 43.6962'		
Depth logged:		1653 m To 1725 m	Mag decl:	6.56 deg	Other services:	
Date logged:		25 Nov 00 To 26 Nov 00	Mag dip:	-21.78 deg		
Bore hole record			Casing record			
Hole size	from	to	Size	Density	from to	
9.875 in	1653 m	1725 m				
Mud record			Borehole deviation record			
Type	from	to	Min	Max	from to	
Sea Water	1653 m	1725 m				
Surface equipment		Software record		IDEAL services from Anadrill		
Unit	TWIS	IDEAL Wis	6.1c_03			
Depth system	PDA	SPM	6.1c_03			
		LWD	5.0b_12			
		MWD				

Bit Run Summary

Run number	1
Bit size	9.875 in
Bit start depth	1653 m
Bit end depth	1725 m
Top interval logged	1653 m
Bottom interval logged	1719 m
Begin log: time	16:15
Begin log: date	25 Nov 00
End log: time	04:15
End log: date	26 Nov 00
Mud data	
Depth	1653 m
Type	Sea Water

Type		Sea Water								
Mud weight	ppg	8.9								
Solids										
Chlorides										
Rm	ohm.m @ degC	0.222 @ 24								
Rmf										
Rmc										
Potassium										
Environmental data										
GR										
Mud weight	ppg	8.9								
Bit size	in	9.875								
Resistivity										
Neutron porosity										
Hole Size										
Mud weight										
Temperature										
Mud salinity										
Formation salinity										
Recording rate 1	SEC	20								
Recording rate 2	SEC	20								
Filtering GR		3 point av.								
Filtering density										
Filtering Neutron										
Company representative		G.Iturrino	A.Bartetzko	M.Storms						
Anadrill personnel		A.Strahan								

DISCLAIMER

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OTHER SERVICES FOR RUN 1	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
<p>REMARKS: RUN NUMBER 1</p> <p>RAB data acquired in memory mode while drilling from 1653-1725 m</p> <p>Drilled in rotary mode</p> <p>Depth filtered for heave</p> <p>No surveys available – borehole assumed to be vertical</p> <p>Environmental Corrections Applied:</p> <p>GR – borehole size, mud weight</p> <p>Resistivity – borehole size, mud resistivity</p> <p>borehole temperature</p> <p>Rbit measurement is affected by a large vertical resolution (4.30 m)</p> <p>25 Nov 00</p> <p>8:28 Program RAB</p> <p>9:00 BHA below rotary table</p> <p>16:15 On bottom drilling at 1653 m</p> <p>25 Nov 00</p> <p>4:15 TD at 1725 m</p> <p>13:00 BHA above rotary table – retrieve RAB memory data</p>	<p>REMARKS: RUN NUMBER</p>	<p>REMARKS: RUN NUMBER</p>

13:00 BHA above rotary table – retrieve
 RAB memory data

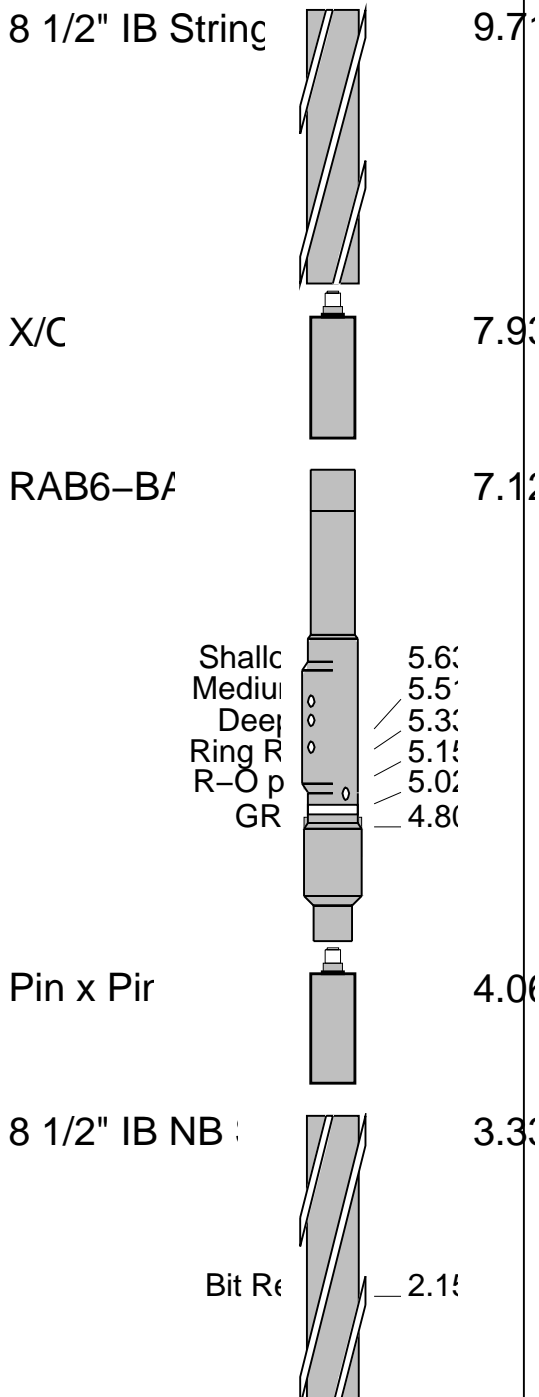
EQUIPMENT DESCRIPTION

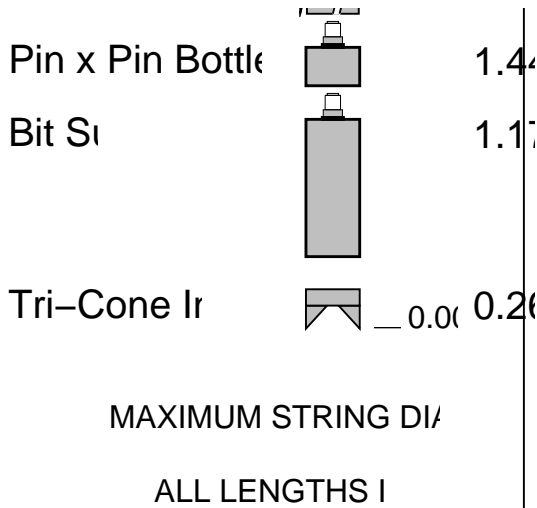
RUN1

RUN

RUN

DOWNHOLE E





Output DLIS Files

ODP_DLIS RAB .028 FN:19 PRODUCER 30-Dec-2000 07:53

IDEAL Version: ID6_1C_03

IDEAL

RAB6-BA id6_1c_03

Format: RABIMAGELOG Vertical Scale: 1:200

Graphics File Created: 30-Dec-2000 07:53

Parameters

DLIS Name	Description	Value
	RAB: Button Sleeve Diameter	RAB6: 8 1/8 IN
	LWD RM: Log direction	DOWN
	LWD RM: Default directory	D:\users\ideal\fm\Clients\ODP\PCM_2a\LWD001\
	LWD RM: Default file extension	BIN_DB
	RAB: Stabilizer Diameter	RAB6: 8.25-8.5 IN
	LWD RM: Generate techlog only?	0
	LWD RM: Flush depth streams?	YES
	LWD RM: Depth file name	Depth_Edit_Filter_1
BDBHCA	RAB: Button Deep Borehole A Factor	0.0875262
BDBHCB	RAB: Button Deep Borehole B Factor	-0.0807475
BHA_COEF_VER	RAB: BHA Coef Generator Version	2
BITBHCA	RAB: Bit A Borehole Factor	0.103963
BITBHCB	RAB: Bit B Borehole Factor	-0.0565331
BIT_K_FACTOR	RAB: Bit K Factor	7.06036
BMBHCA	RAB: Button Medium Borehole A Factor	0.0972245
BMBHCB	RAB: Button Medium Borehole B Factor	-0.113513
BSBHCA	RAB: Button Shallow Borehole A Factor	0.319025
BSBHCB	RAB: Button Shallow Borehole B Factor	-0.0581583
BS_RM	Bit Size (RM)	9.875 IN
BUT_KIMP_A	RAB: Button Impedance Coeff A	0.00149
BUT_KIMP_B	RAB: Button Impedance Coeff B	3.6e-005
DBUTTON_K_FACTOR	RAB: Button Deep K factor	0.00271955
DHS_VERSION	RAB: DownHole Software Version	5.0012
DIPR	magnetic dip	-21.78 DEG
IMAGE_MAX_RES	RAB: Image Maximum Resistivity Value	100 OHMM
IMAGE_MIN_RES	RAB: Image Minimum Resistivity Value	1 OHMM
MBUTTON_K_FACTOR	RAB: Button Medium K Factor	0.00303524
MDCP	magnetic declination	6.56002 DEG
MST_RM	Mud Sample temperature (RM)	24.4445 DEGC
MW_RM	Mud Weight (RM)	8.9 LB/G
OBM	RAB: Oil base Mud	NO
ORIENTATION_RM	Rab Image Orientation	NORTH
RABEC	RAB: Resistivity Env-Cor	YES
RAB_TEMP_SELECT	RAB Temperature Selection	MEASURED
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	5.02 M
RINGBHCA	RAB: Ring Borehole A Factor	0.167792

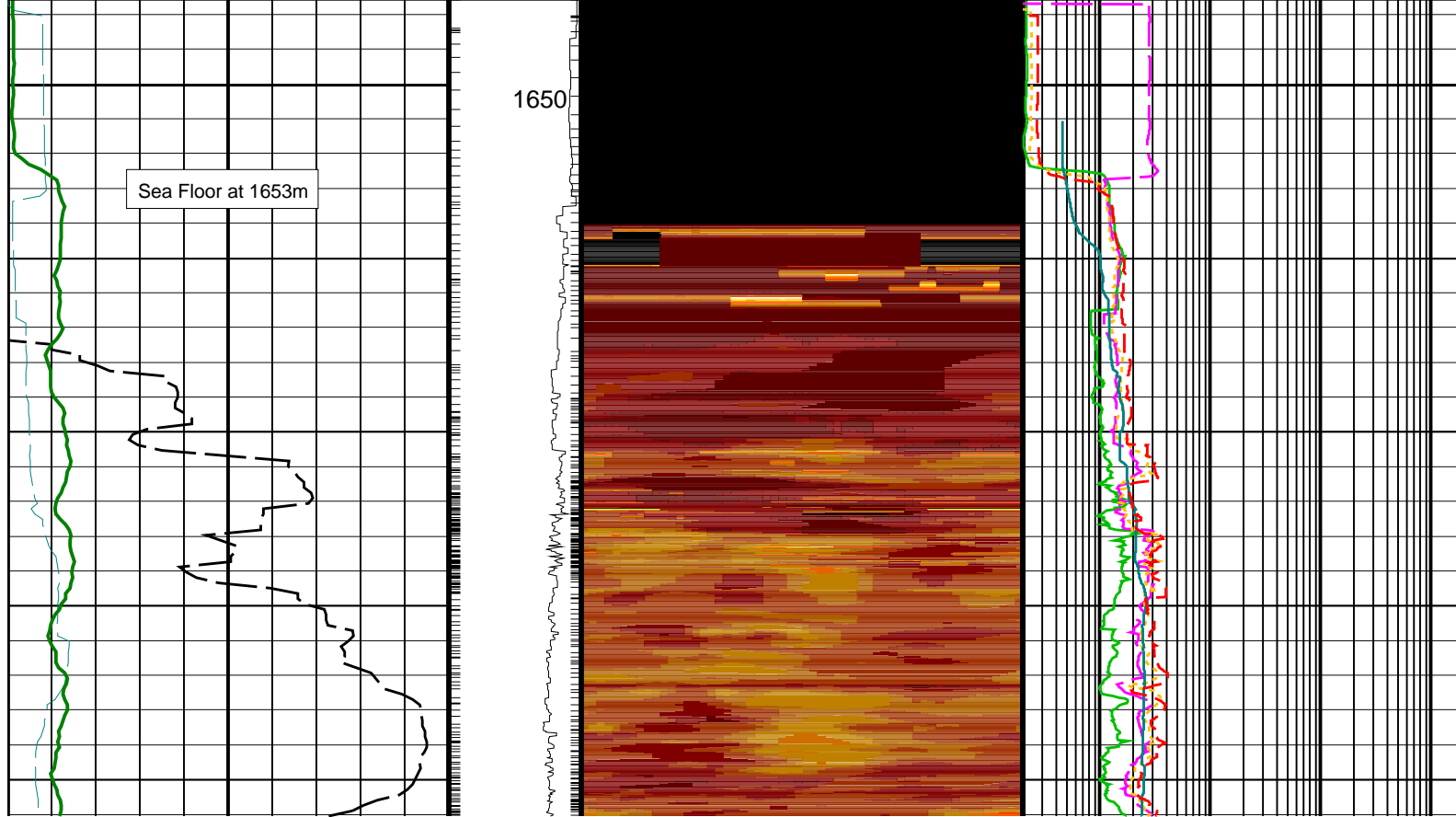
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	5.02	M
RINGBHCA	RAB: Ring Borehole A Factor	0.167792	
RINGBHCB	RAB: Ring Borehole B Factor	-0.0836022	
RING_KIMP_A	RAB: Ring Impedance Coeff A	0	
RING_KIMP_B	RAB: Ring Impedance Coeff B	0	
RING_K_FACTOR	RAB: Ring K Factor	0.107365	
RMS_RM	Resistivity of Mud Sample (RM)	0.222	OHMM
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	0.00418338	
STAB	RAB: Run with Stabilizer	YES	
TOOLTYPE	RAB: Azimuthal Tool	YES	
TS_VERSION	RAB: ToolScope Software Version	6.1013	
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_PILOT	
WIN_SIZE_DYN_IMAGE	RAB: Window Size for Scaling Dynamic Image	0.9144	M

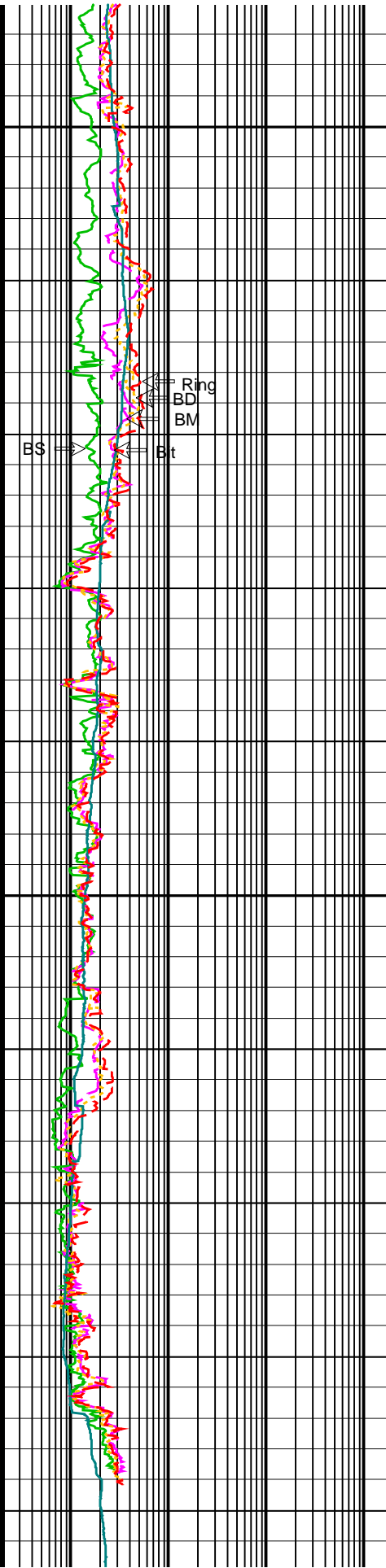
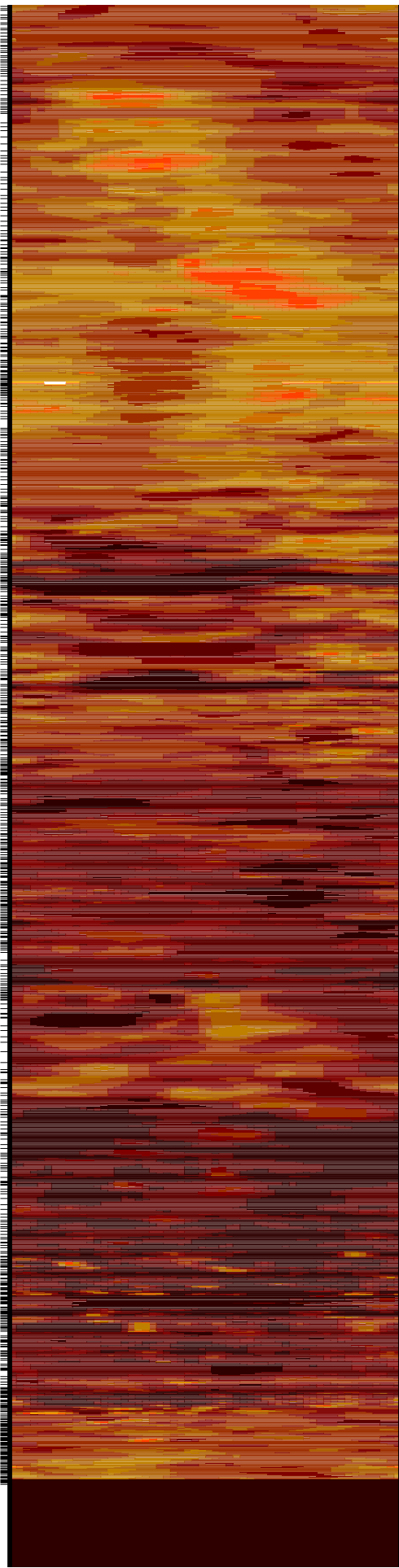
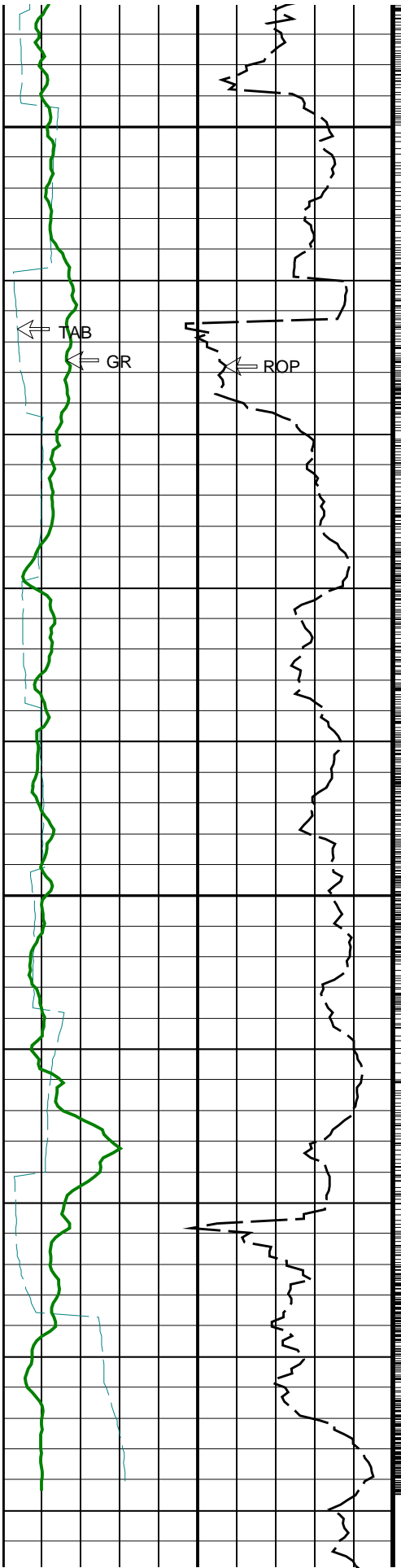
PIP SUMMARY

- ┆ RAB Deep Button Samples
- ┆ Gamma Ray Samples

	BHC Ring Resistivity (RES_RING)	0.2	(OHMM)	2000
	BHC Bit resistivity (RES_BIT)	0.2	(OHMM)	2000
Rate of penetration, 5ft filtered (ROP5_RM)		60	(M/HR)	0
Deep Button Resistivity Time After Bit (TAB_RAB_BD)		0	(HR)	10
	BHC Deep Button Resistivity (RES_BD)	0.2	(OHMM)	2000
	BHC Medium Button Resistivity (RES_BM)	0.2	(OHMM)	2000

RAB Gamma Ray (GR_RAB)	RAB Rotational Speed (RPM_RAB)	0	(GAPI)	200
		250	(RPM)	-10
	RAB Deep button Image (R3IM)			
	BHC Shallow Button Resistivity (RES_BS)	0.2	(OHMM)	2000

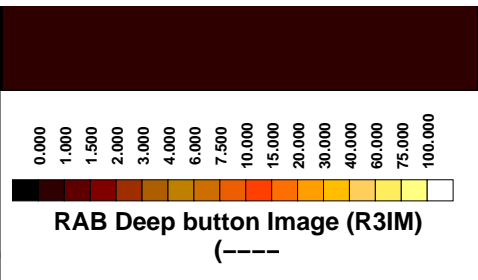




TD at 1725m

RAB Gamma Ray (GR_RAB)		
0	(GAPI)	200
Deep Button Resistivity Time After Bit (TAB_RAB_BD)		
0	(HR)	10
Rate of penetration, 5ft filtered (ROP5_RM)		
60	(M/HR)	0

RAB Rotational Speed (RPM_RAB) (RPM)
250 -10



BHC Shallow Button Resistivity (RES_BS)		
0.2	(OHMM)	2000
BHC Medium Button Resistivity (RES_BM)		
0.2	(OHMM)	2000
BHC Deep Button Resistivity (RES_BD)		
0.2	(OHMM)	2000
BHC Bit resistivity (RES_BIT)		
0.2	(OHMM)	2000
BHC Ring Resistivity (RES_RING)		
0.2	(OHMM)	2000

PIP SUMMARY
 + RAB Deep Button Samples
 + Gamma Ray Samples

IDEAL Version: ID6_1C_03
 IDEAL

RAB6-BA id6_1c_03

Output DLIS Files

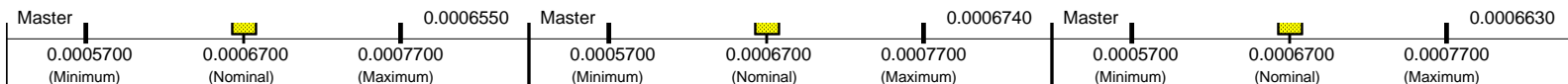
ODP_DLIS RAB .028 FN:19 PRODUCER 30-Dec-2000 07:53 1647.6 M 1724.2 M

6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:
 Tool Name and Serial Number RAB6 - BA 48
 Calibration Status -

Master: 24-NOV-2000 23:22

6.75-in. Resistivity At-the-Bit Calibration														
Resistivity: Fixture														
Phase	Ring/T1 factor			Value	Phase	Ring/T2 factor			Value	Phase	M0/T1 factor			Value
Master				0.01081	Master				0.01079	Master				1.105
	0.009500 (Minimum)	0.01100 (Nominal)	0.01250 (Maximum)			0.009500 (Minimum)	0.01100 (Nominal)	0.01250 (Maximum)			0.9000 (Minimum)	1.050 (Nominal)	1.200 (Maximum)	
Phase	M0/T2 factor			Value	Phase	M2/T1 factor			Value	Phase	M2/T2 factor			Value
Master				1.137	Master				0.9956	Master				1.024
	0.9000 (Minimum)	1.050 (Nominal)	1.200 (Maximum)			0.8500 (Minimum)	1.000 (Nominal)	1.150 (Maximum)			0.8500 (Minimum)	1.000 (Nominal)	1.150 (Maximum)	
Phase	BTN shallow/T1 factor			Value	Phase	BTN shallow/T2 factor			Value	Phase	BTN medium/T1 factor			Value
Master				0.0006530	Master				0.0006840	Master				0.0006630
	0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)			0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)			0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)	
Phase	BTN medium/T2 factor			Value	Phase	BTN deep/T1 factor			Value	Phase	BTN deep/T2 factor			Value
Master				0.0006550	Master				0.0006740	Master				0.0006630



Master: 24-NOV-2000 23:16		
6.75-in. Resistivity At-the-Bit Calibration		
Gamma Ray: Blanket		
Phase	Gamma ray factor	Value
Master		4.110
	3.500 (Minimum) 4.500 (Nominal) 5.500 (Maximum)	

Company: **LDEO Borehole Research Group**

Well: **1188B** **PCM-2A**

Field: **Eastern Manus Back Arc Basin**

Rig: **JOIDES Resolution**

IDEAL services from **Anadrill**

RAB Deep Button Image
Measured Depth
Scale 1:200

Schlumberger