

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 1:60		
			Location		
Total depth:		1725 m	Elevation	K.B.	10.9 m
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
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 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

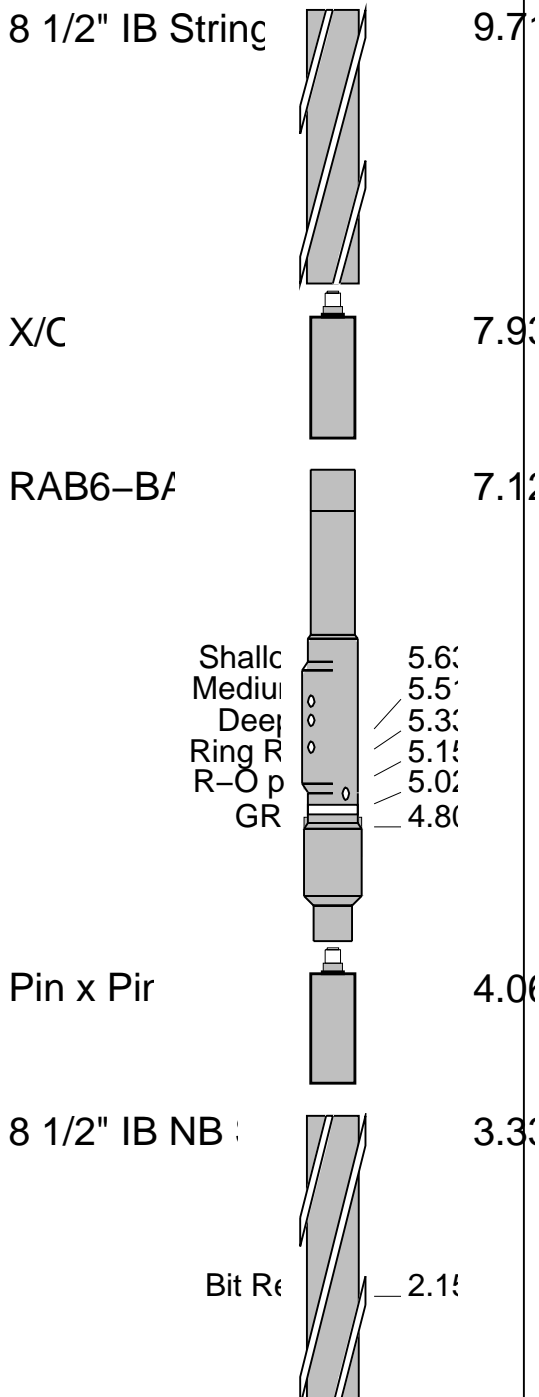
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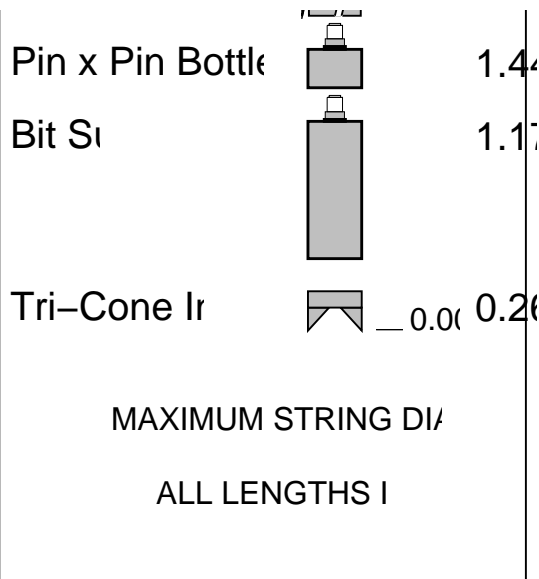
RUN1

RUN

RUN

DOWNHOLE E





IDEAL Version: ID6_1C_03
IDEAL

RAB6-BA id6_1c_03

Format: RABImageResFormat Vertical Scale: 1:60

Graphics File Created: 02-Jan-2001 16:34

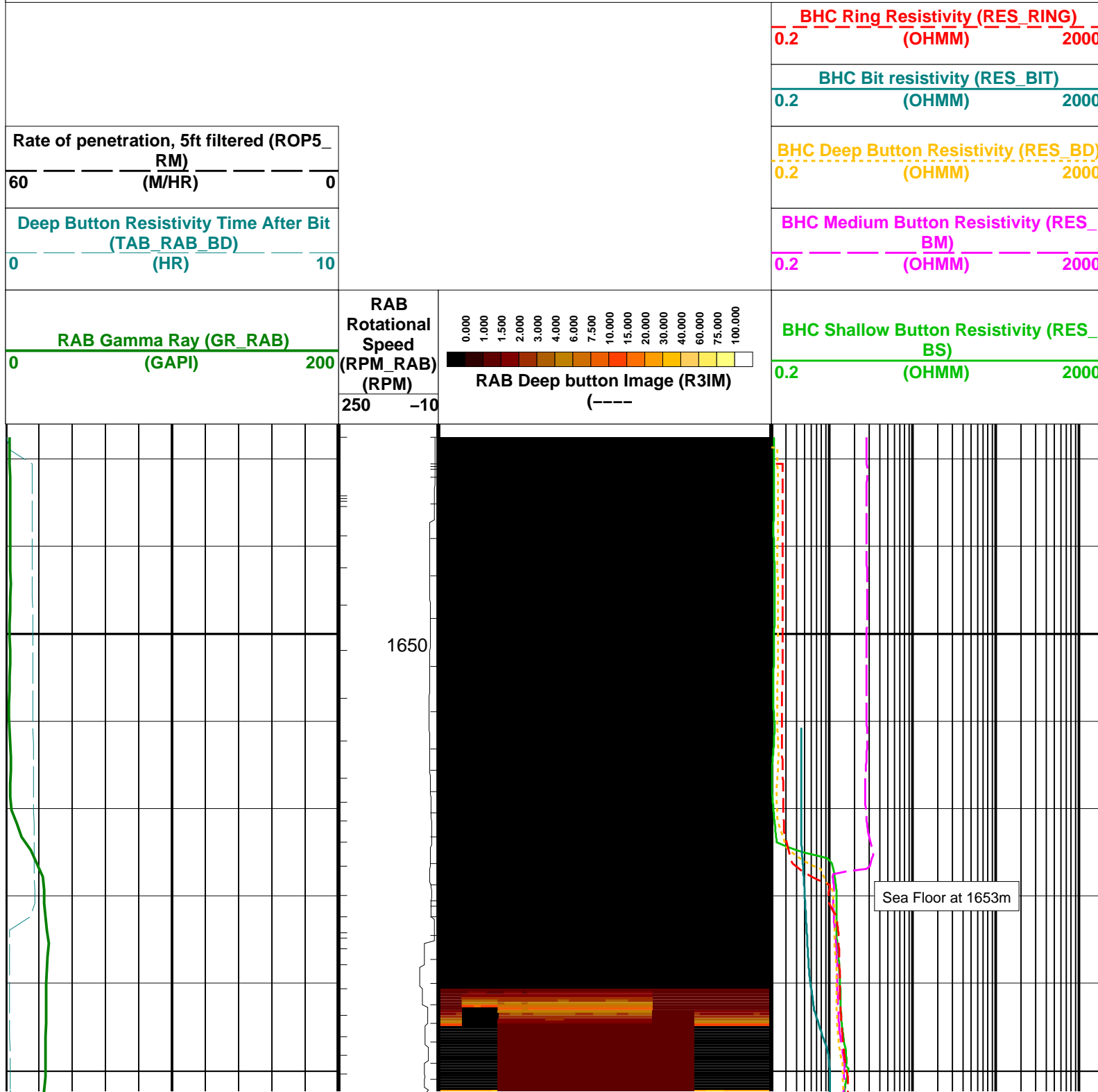
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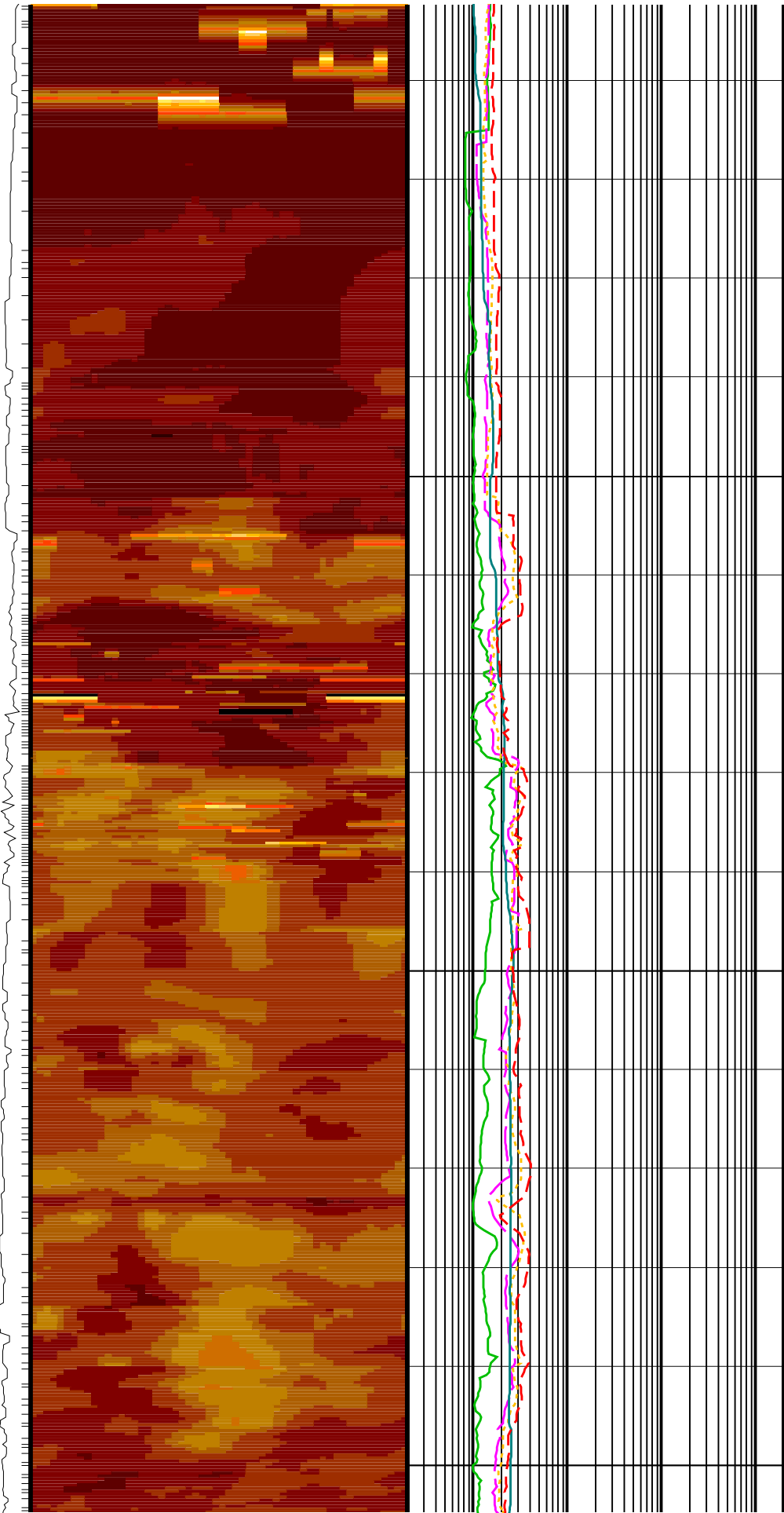
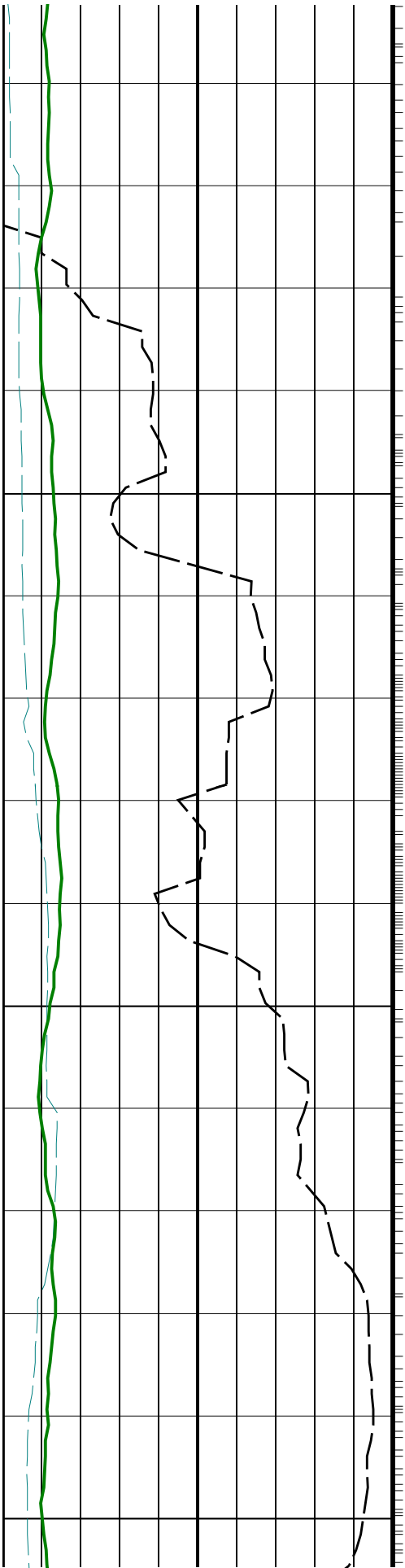
DLIS Name	Description	Value
	LWD RM: Log direction	DOWN
	LWD RM: Generate techlog only?	0
	LWD RM: Flush depth streams?	YES
	LWD RM: Default file extension	BIN_DB
	RAB: Stabilizer Diameter	RAB6: 8.25-8.5 IN
	RAB: Button Sleeve Diameter	RAB6: 8 1/8 IN
	LWD RM: Depth file name	Depth_Edit_Filter_1
	LWD RM: Default directory	D:\users\ideal\fm\Clients\ODP\PCM_2a\LWD001\
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
DO	Depth Offset for Logical Unit 1	0.0 M
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
PP	Playback Processing	NORMAL
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
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

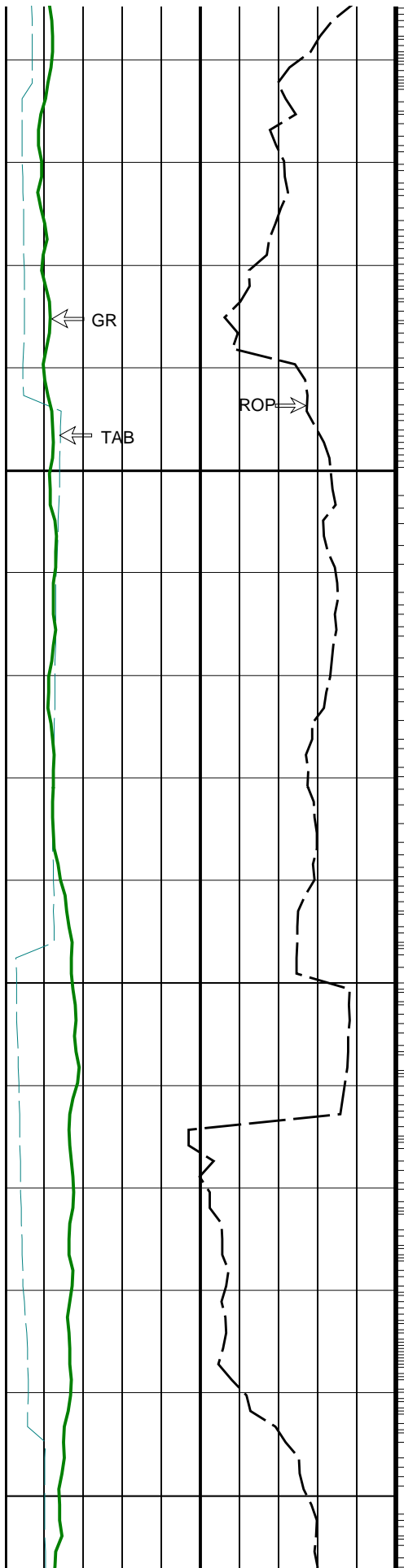
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RING_KIMP_B	RAB: Ring Impedance Coeff B	0	
RING_K_FACTOR	RAB: Ring K Factor	0.107365	
RMS_RM	Resistivity of Mud Sample (RM)	0.222	OHMM
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	0.00418338	
STAB	RAB: Run with Stabilizer	YES	
TOOLTYPE	RAB: Azimuthal 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

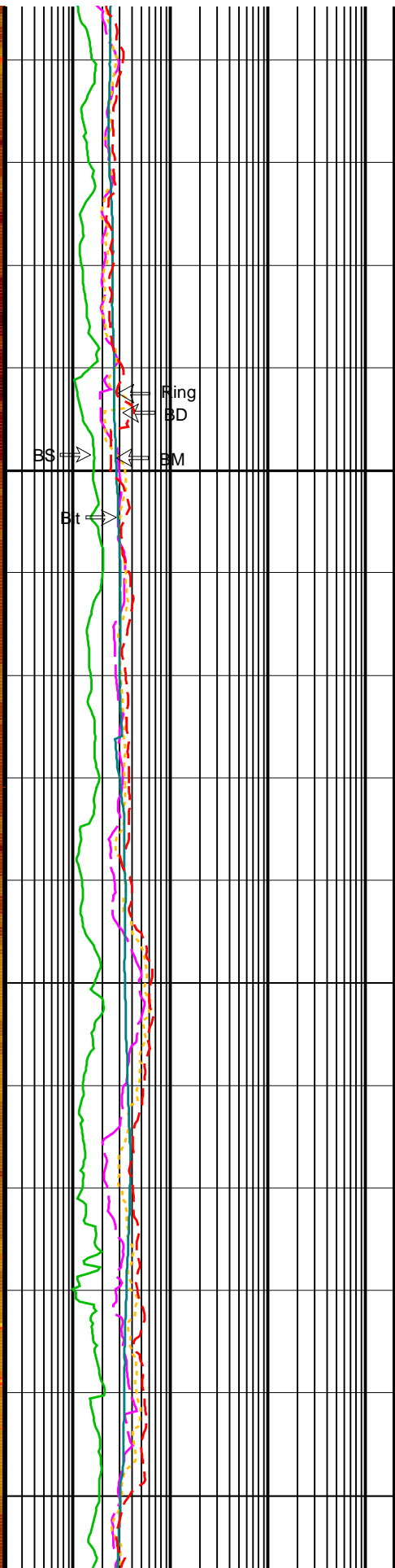
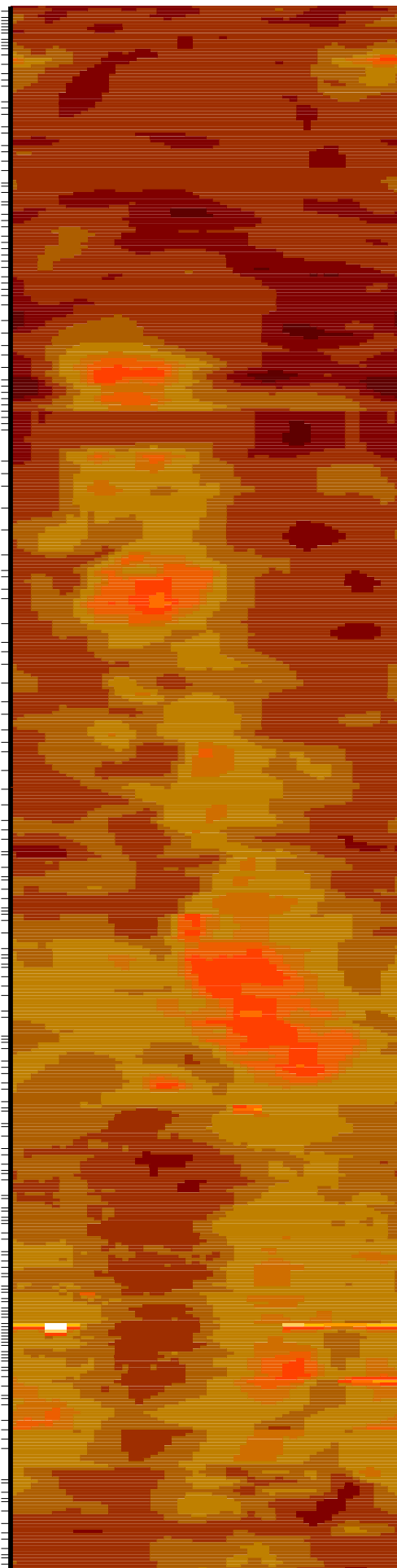
- ├ RAB Deep Button Samples
- └ Gamma Ray Samples

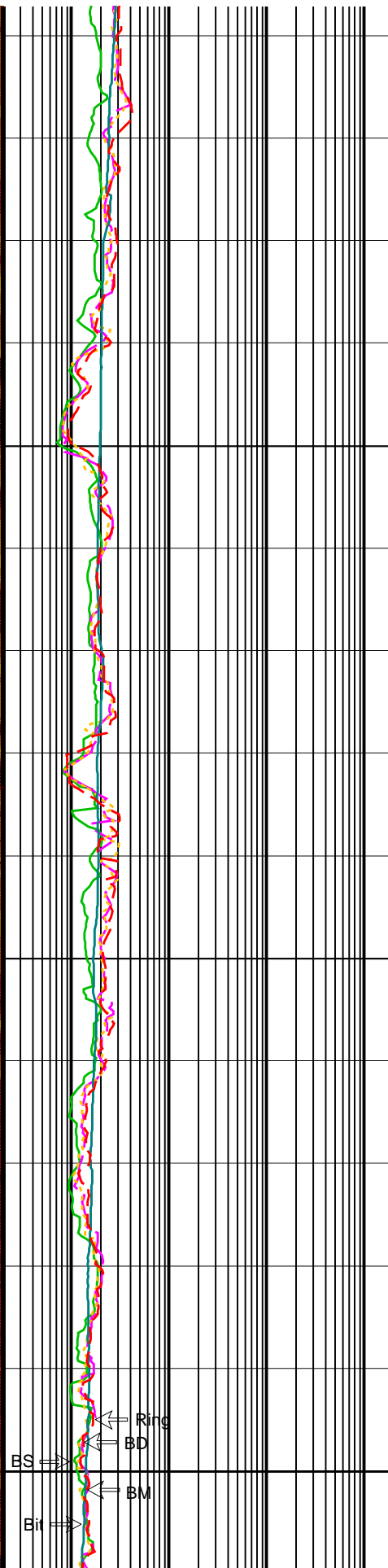
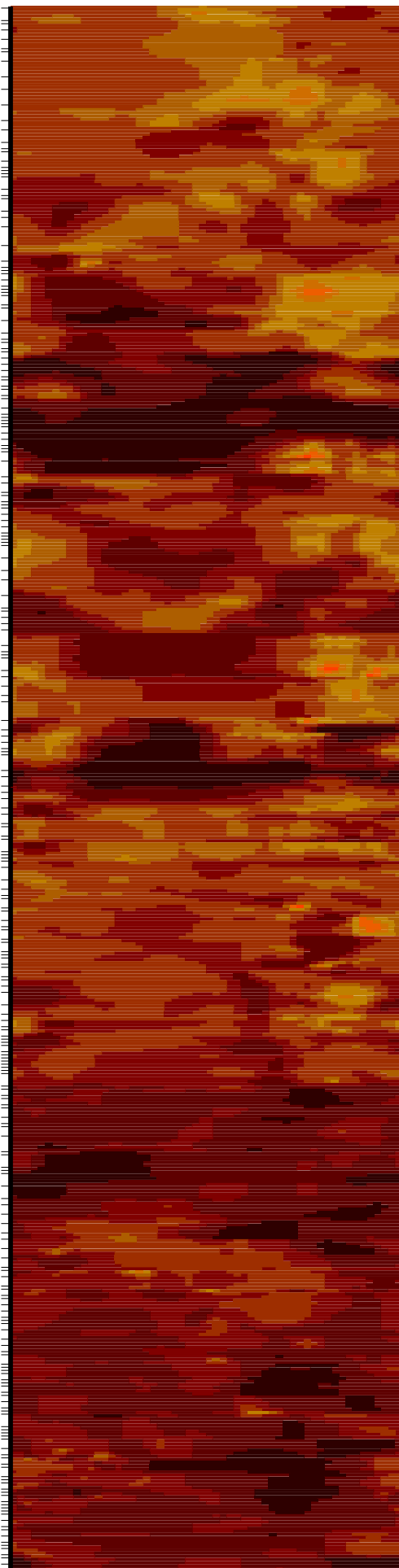
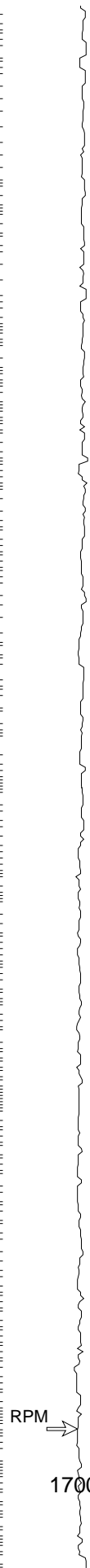
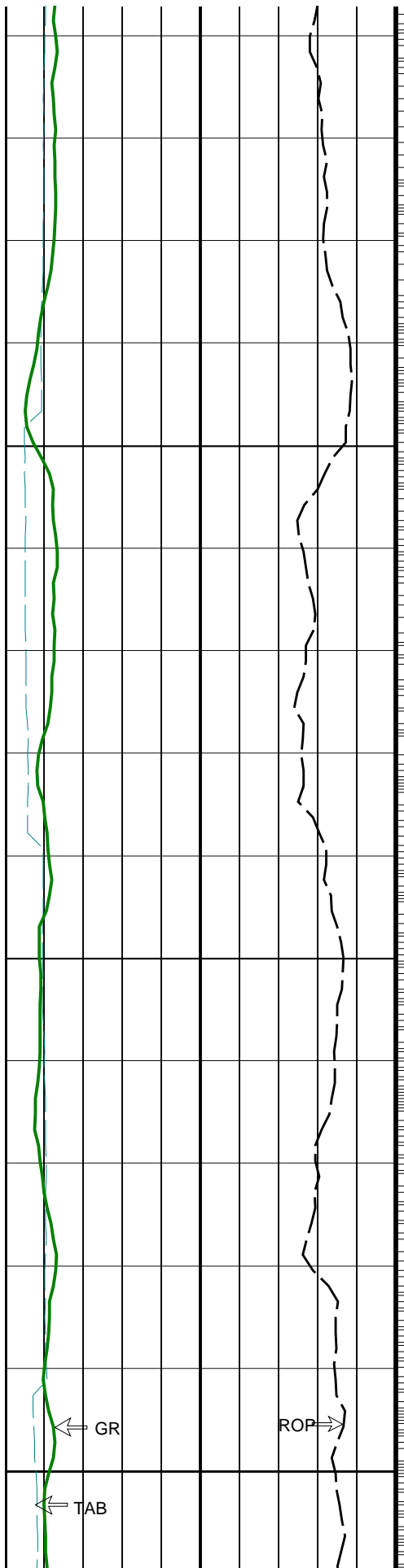


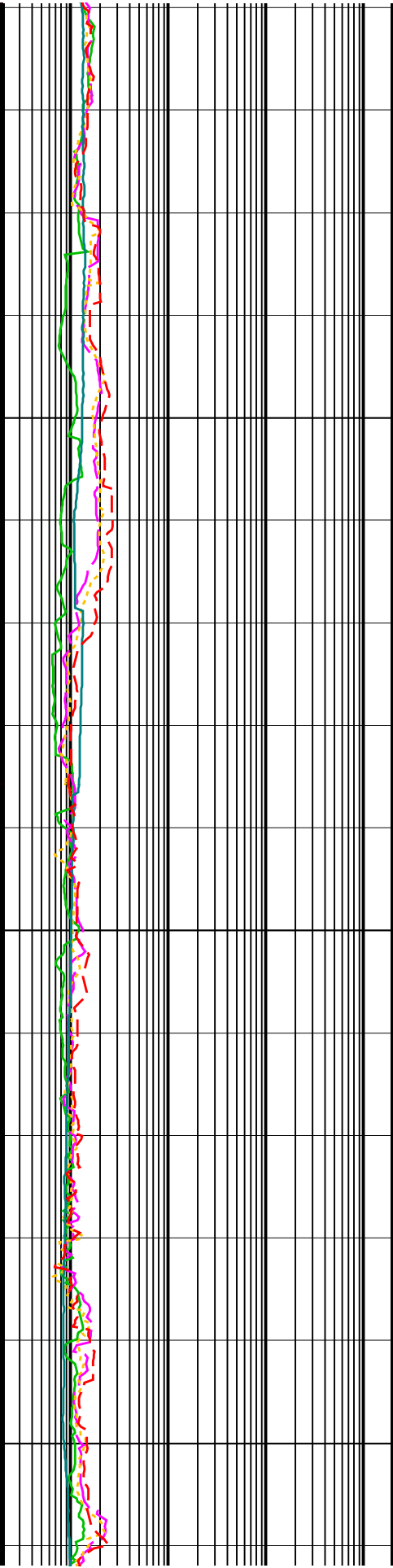
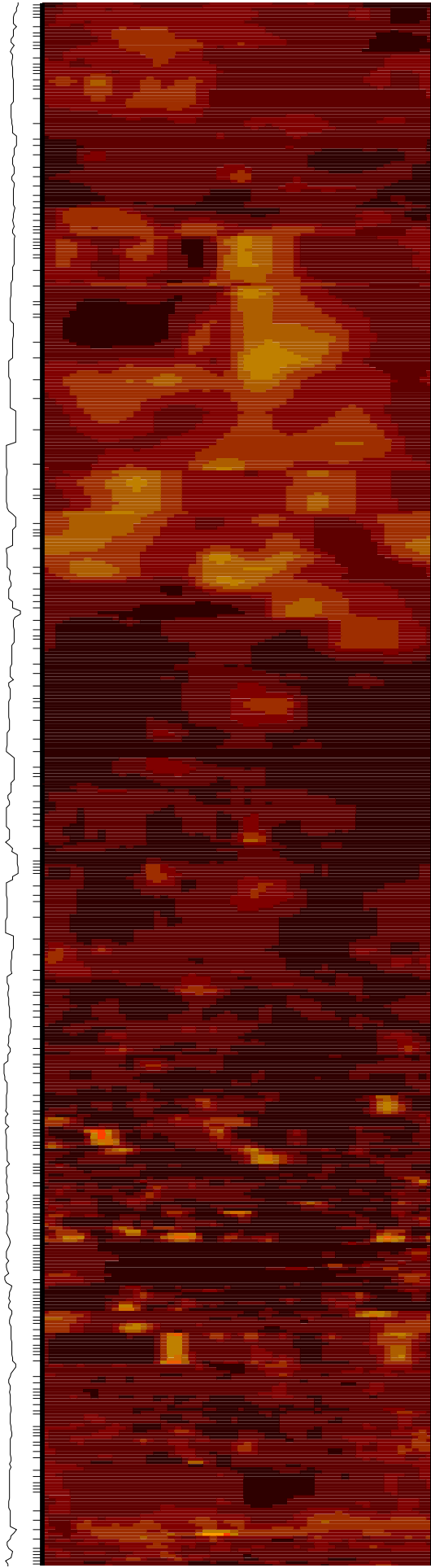
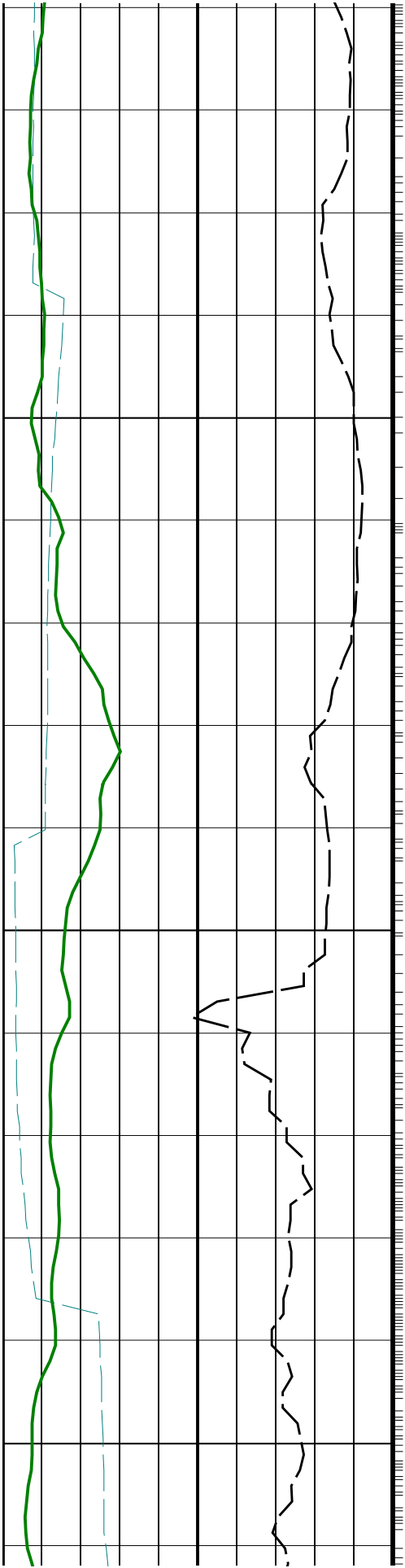


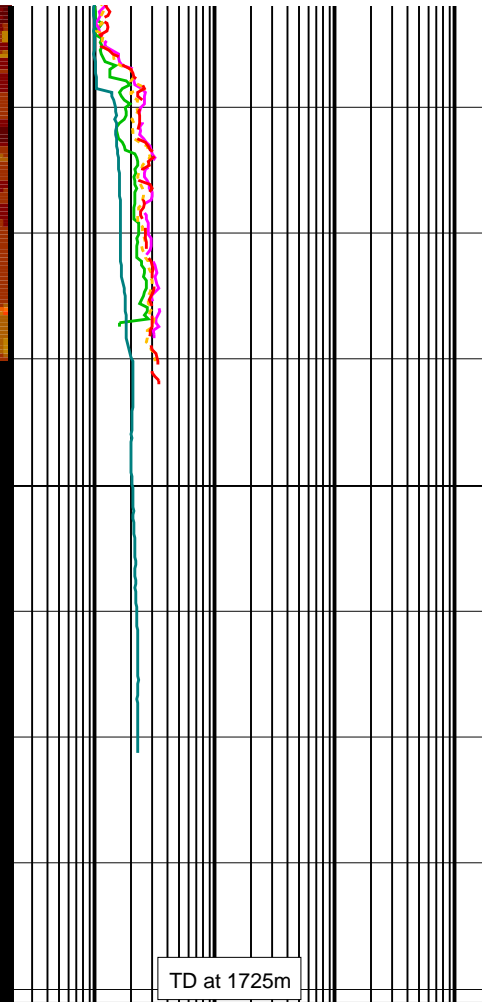
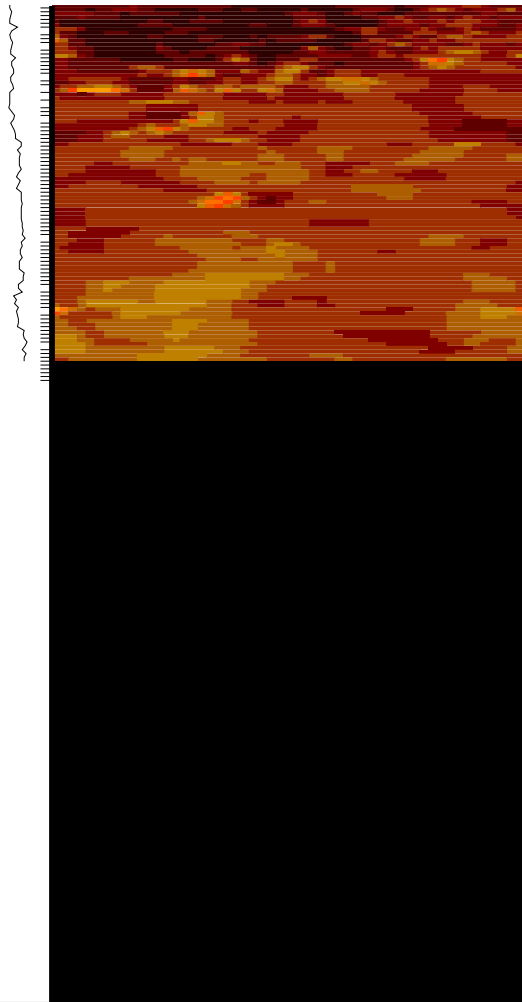
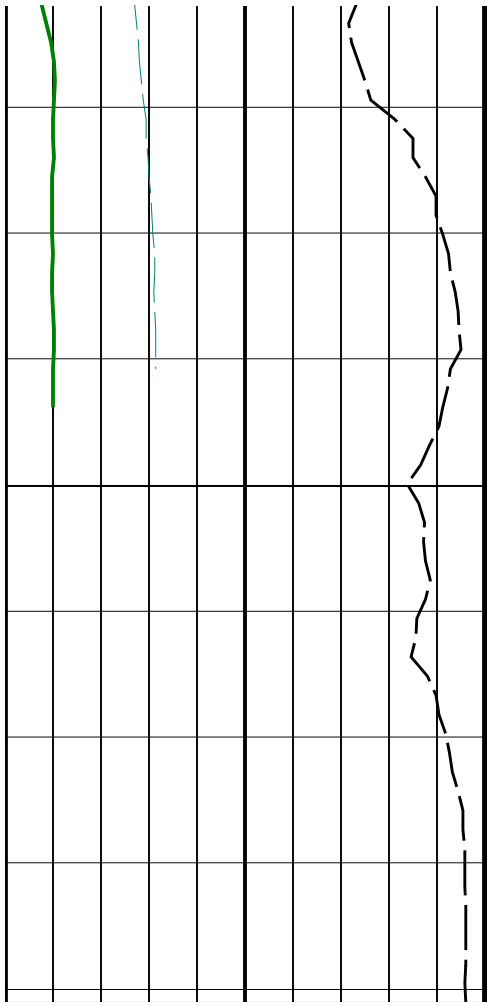


RPM →
1675



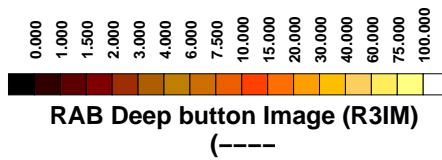






RAB Gamma Ray (GR_RAB)		
0	(GAPI)	200
Deep Button Resistivity Time After Bit (TAB_RAB_BD)		
0	(HR)	10
Rate of penetration, 5ft filtered (ROP5_RM)		
60	(M/HR)	0

RAB Rotational Speed (RPM_RAB)	
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

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













Primary Equipment:
Tool Name and Serial Number
Calibration Status

RAB6 - BA 48
-

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
	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)	

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 1:60

Schlumberger