

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	10								
Recording rate 2	SEC	10								
Filtering GR		3 point av.								
Filtering density										
Filtering Neutron										
Company representative		G.Iturrino	A.Bartetzko	M.Storms						
Anadrill personnel		A.Strahan								

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 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 1700-1866 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 (5.12 m)</p> <p>27 Dec 00</p> <p>13:11 Program RAB</p> <p>13:20 BHA below rotary table</p> <p>17:00 On bottom drilling at 1700 m</p> <p>28 Dec 00</p> <p>13:40 TD at 1866 m</p> <p>22:20 BHA above rotary table – retrieve RAB memory data</p>	<p>REMARKS: RUN NUMBER</p>	<p>REMARKS: RUN NUMBER</p>

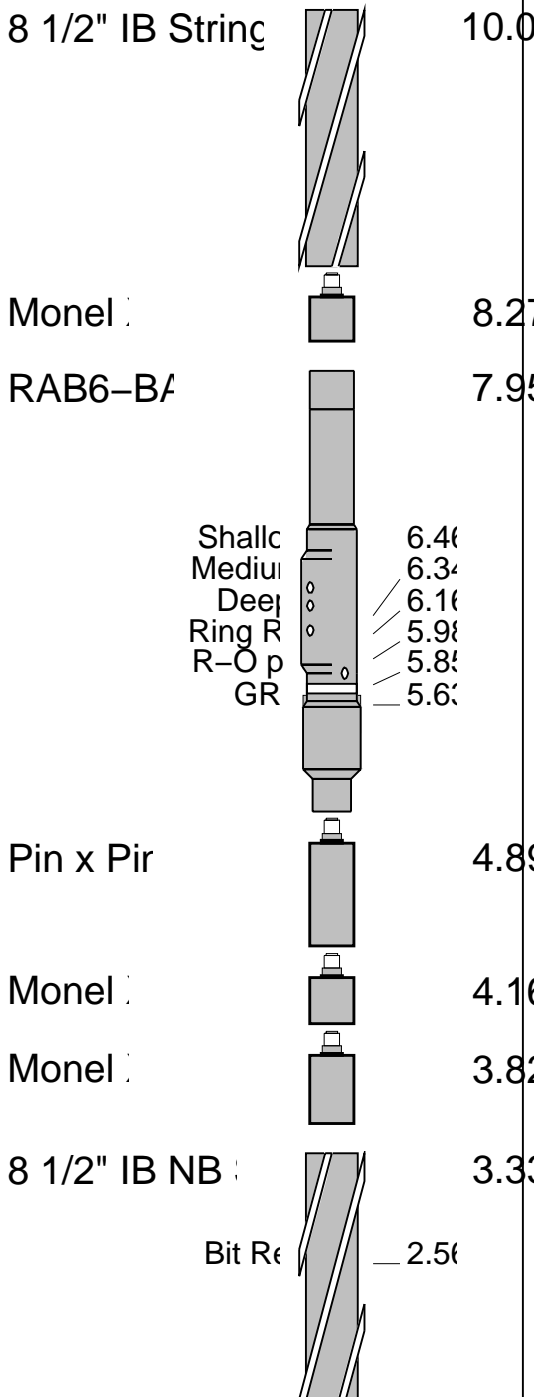
EQUIPMENT DESCRIPTION

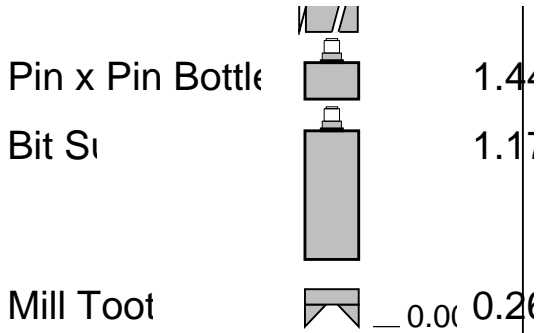
RUN1

RUN

RUN

DOWNHOLE E





MAXIMUM STRING DI
ALL LENGTHS I

Output DLIS Files

DLIS RAB .007 FN:6 PRODUCER 29-Dec-2000 03:07

IDEAL Version: ID6_1C_03 IDEAL

RAB6-BA id6_1c_03

Format: RAB_Ring/But_RM Vertical Scale: 1:200

Graphics File Created: 29-Dec-2000 03:07

Parameters

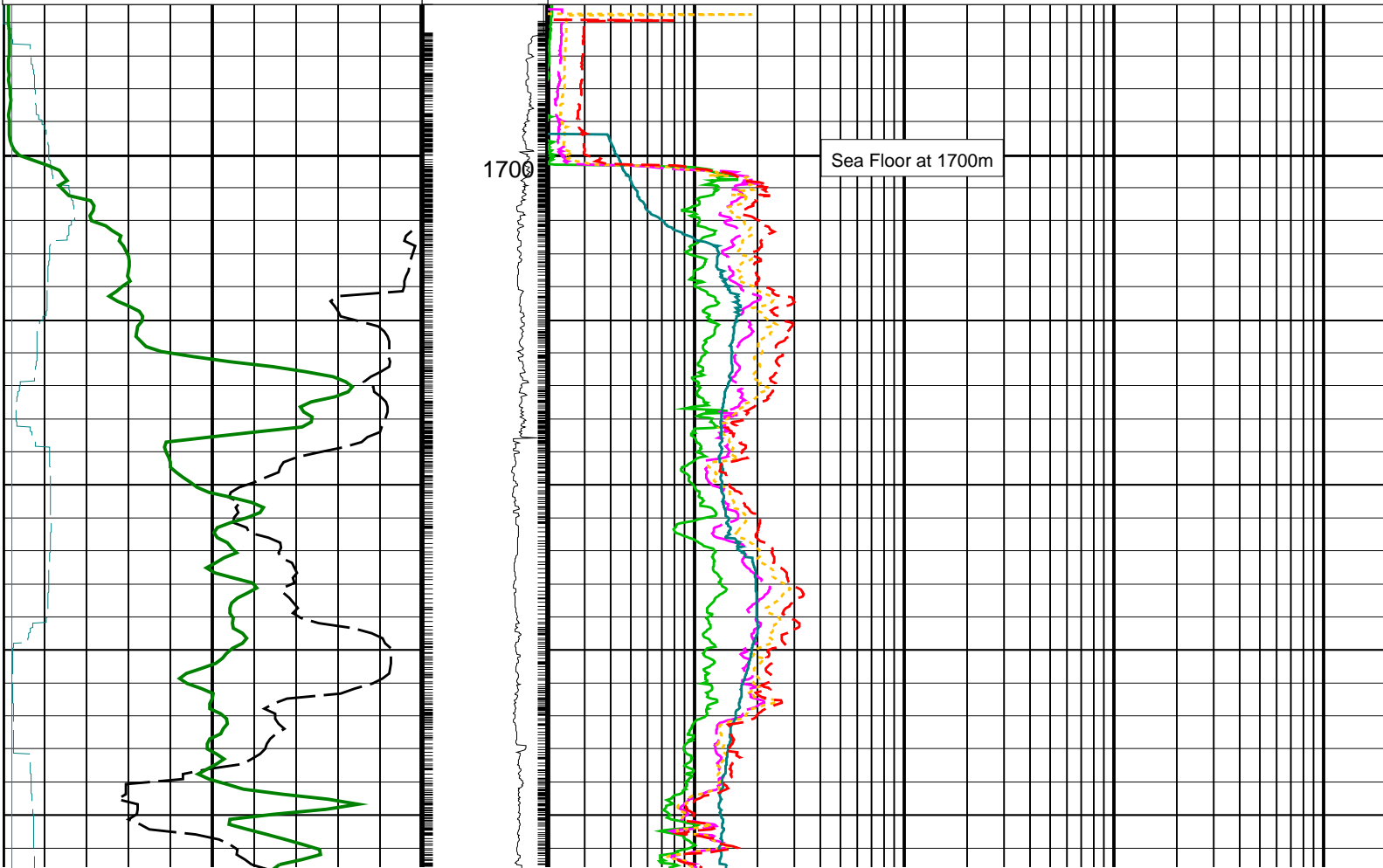
DLIS Name	Description	Value
	RAB: Button Sleeve Diameter	RAB6: 8 1/8 IN
	LWD RM: Log direction	DOWN
	LWD RM: Default directory	D:\users\ideal\fm\Clients\ODP\PCM-3a\LWD002\
	LWD RM: Default file extension	BIN_DB
	RAB: Stabilizer Diameter	RAB6: 8.25-8.5 IN
	LWD RM: Generate techlog only?	0
	LWD RM: Flush depth streams?	YES
	LWD RM: Depth file name	Depth_Run2_Filtered
BDBHCA	RAB: Button Deep Borehole A Factor	0.0732254
BDBHCB	RAB: Button Deep Borehole B Factor	-0.0922599
BHA_COEF_VER	RAB: BHA Coef Generator Version	2
BITBHCA	RAB: Bit A Borehole Factor	0.0941899
BITBHCB	RAB: Bit B Borehole Factor	-0.0627806
BIT_K_FACTOR	RAB: Bit K Factor	8.12816
BMBHCA	RAB: Button Medium Borehole A Factor	0.107207
BMBHCB	RAB: Button Medium Borehole B Factor	-0.105328
BSBHCA	RAB: Button Shallow Borehole A Factor	0.310186
BSBHCB	RAB: Button Shallow Borehole B Factor	-0.0666146
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	0.00270707
DHS_VERSION	RAB: DownHole Software Version	5.0012
DIPR	magnetic dip	-21.78 DEG
MBUTTON_K_FACTOR	RAB: Button Medium K Factor	0.00301584
MDCP	magnetic declination	6.56002 DEG
MST_RM	Mud Sample temperature (RM)	24.4445 DEG
MW_RM	Mud Weight (RM)	8.9 LB/G
OBM	RAB: Oil base Mud	NO
RABEC	RAB: Resistivity Env-Cor	YES
RAB_TEMP_SELECT	RAB Temperature Selection	MEASURED
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	5.85 M
RINGBHCA	RAB: Ring Borehole A Factor	0.162277
RINGBHCB	RAB: Ring Borehole B Factor	-0.0883462
RING_KIMP_A	RAB: Ring Impedance Coeff A	0
RING_KIMP_B	RAB: Ring Impedance Coeff B	0

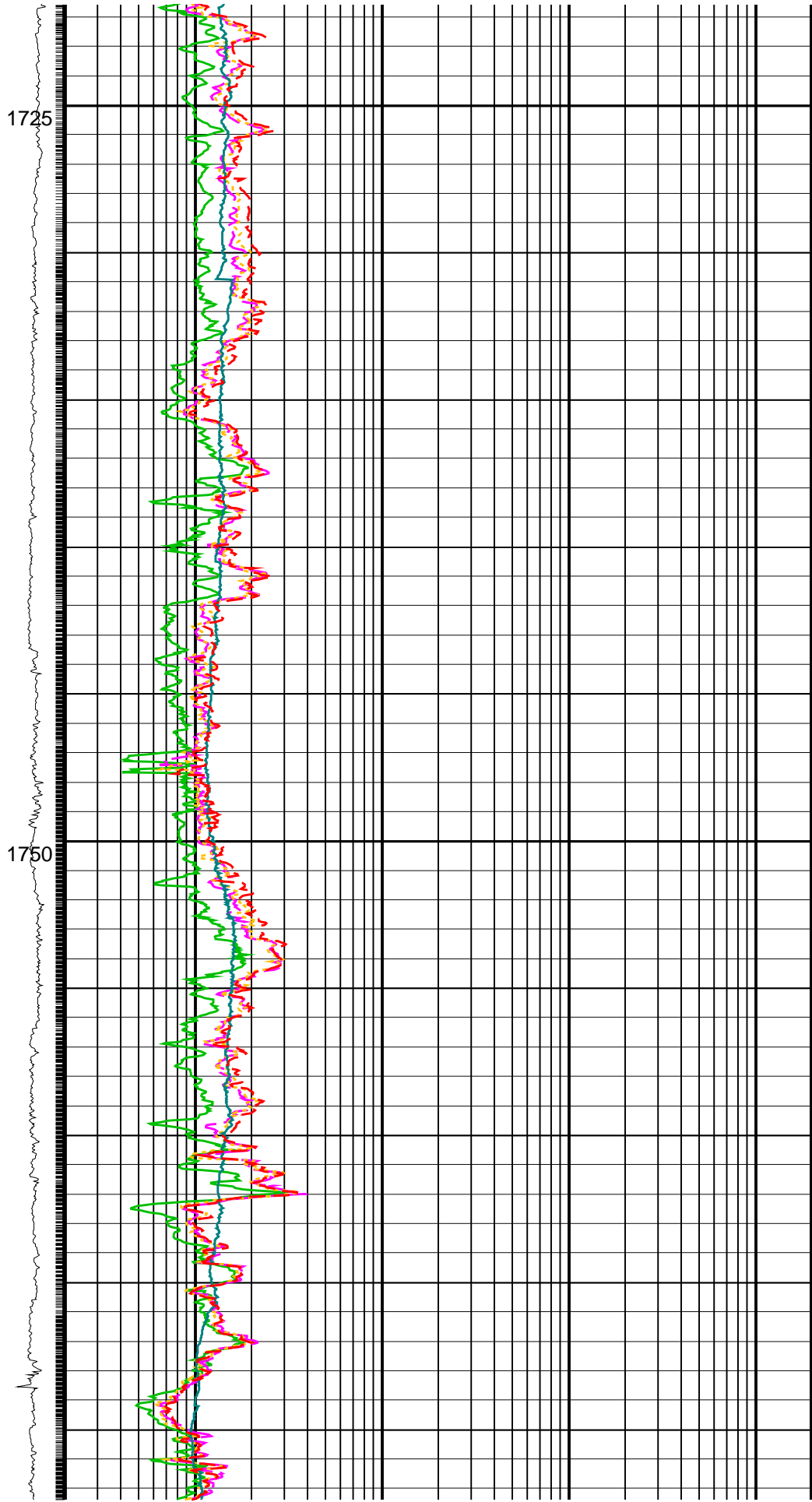
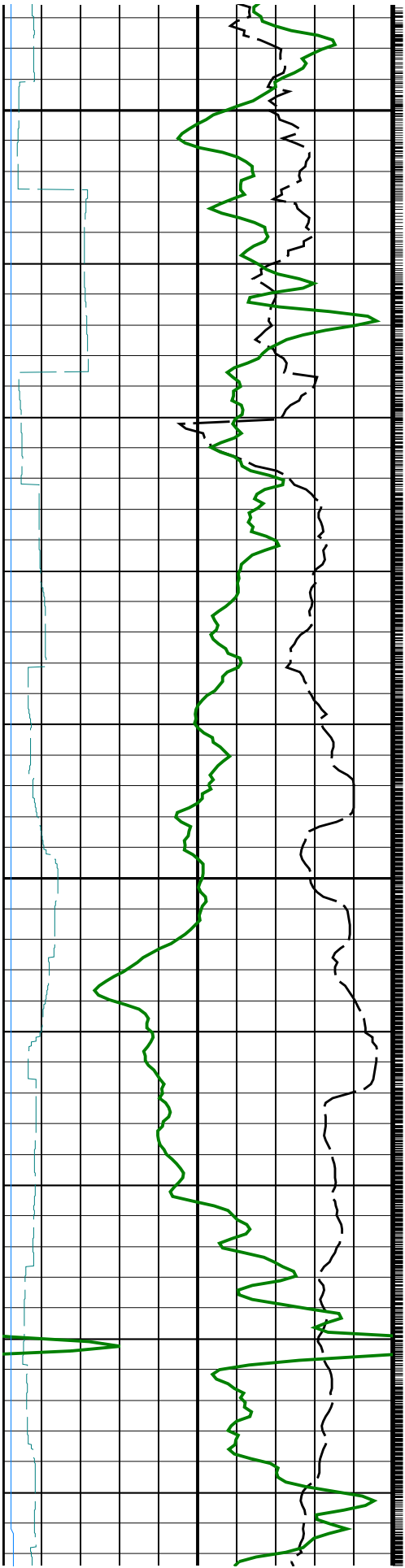
RING_KIMP_A	RAB: Ring Impedance Coeff A	0	
RING_KIMP_B	RAB: Ring Impedance Coeff B	0	
RING_K_FACTOR	RAB: Ring K Factor	0.106596	
RMS_RM	Resistivity of Mud Sample (RM)	0.222	OHMM
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	0.00415075	
STAB	RAB: Run with Stabilizer	YES	
TOOLTYPE	RAB: Azimuthal Tool	YES	
TS_VERSION	RAB: ToolScope Software Version	6.1013	
VRA6	Rab Tool type (ENP/PILOT)	RAB6_PILOT	

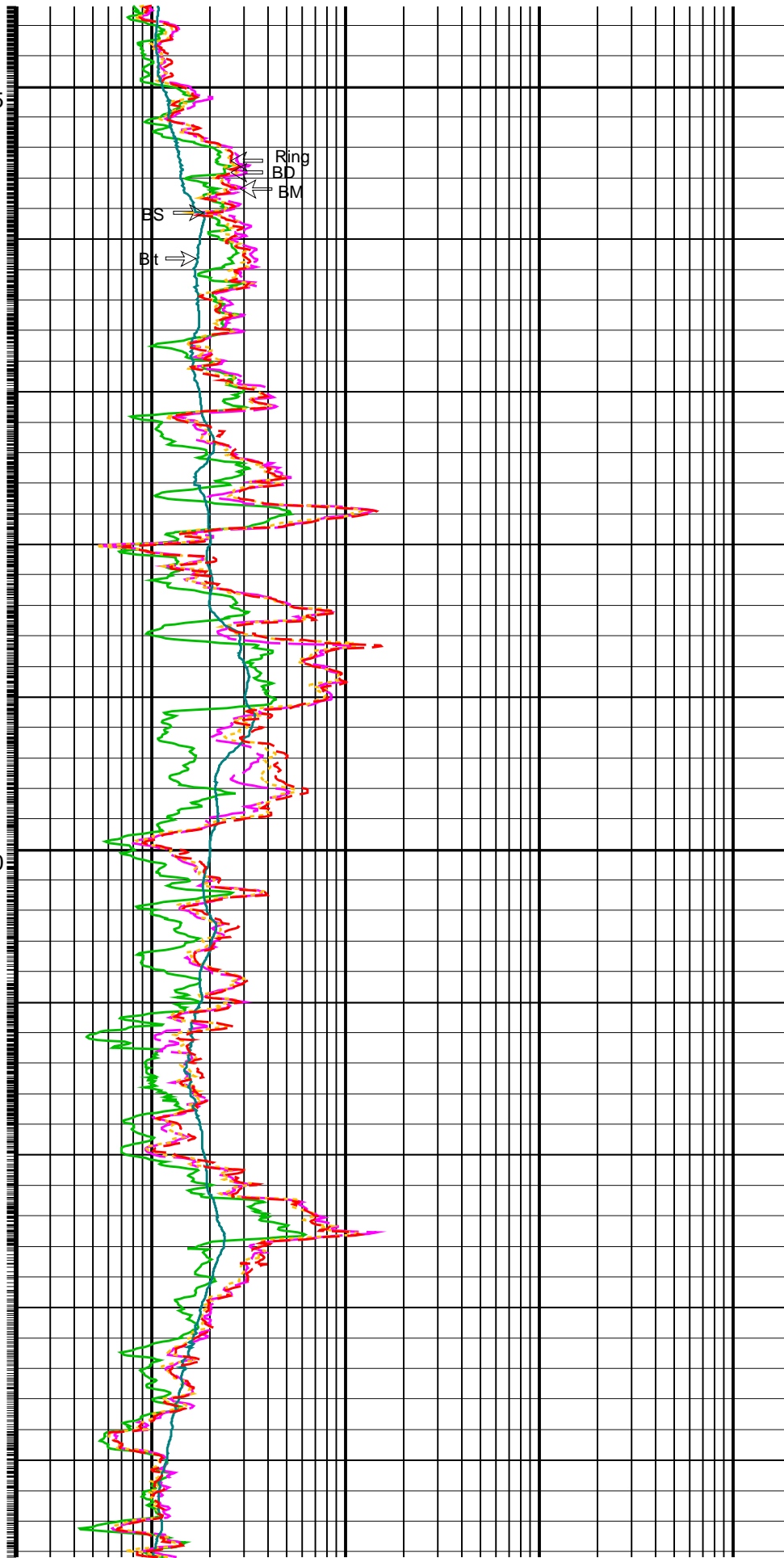
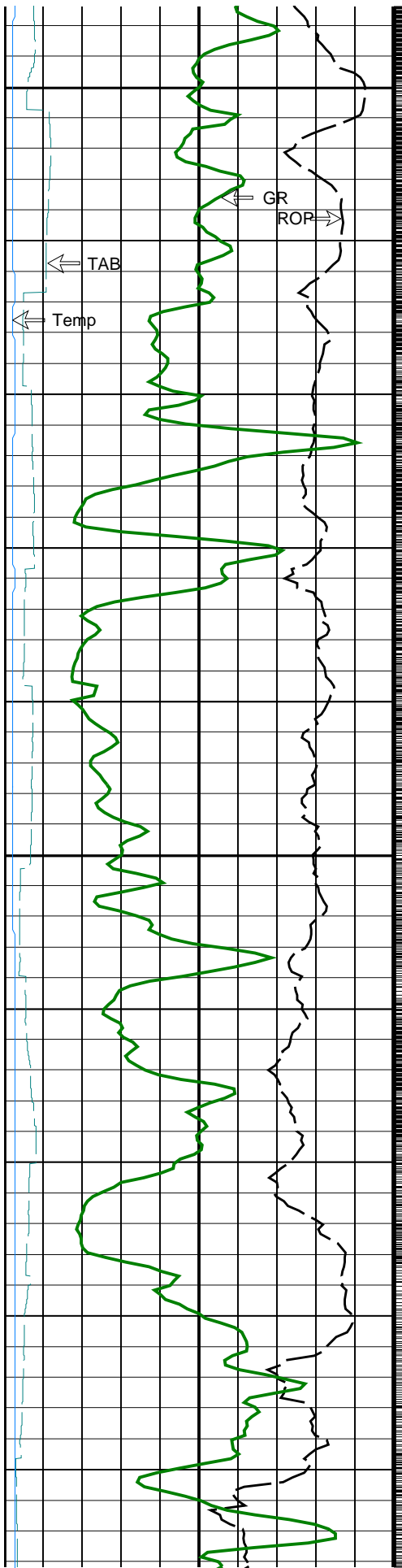
PIP SUMMARY

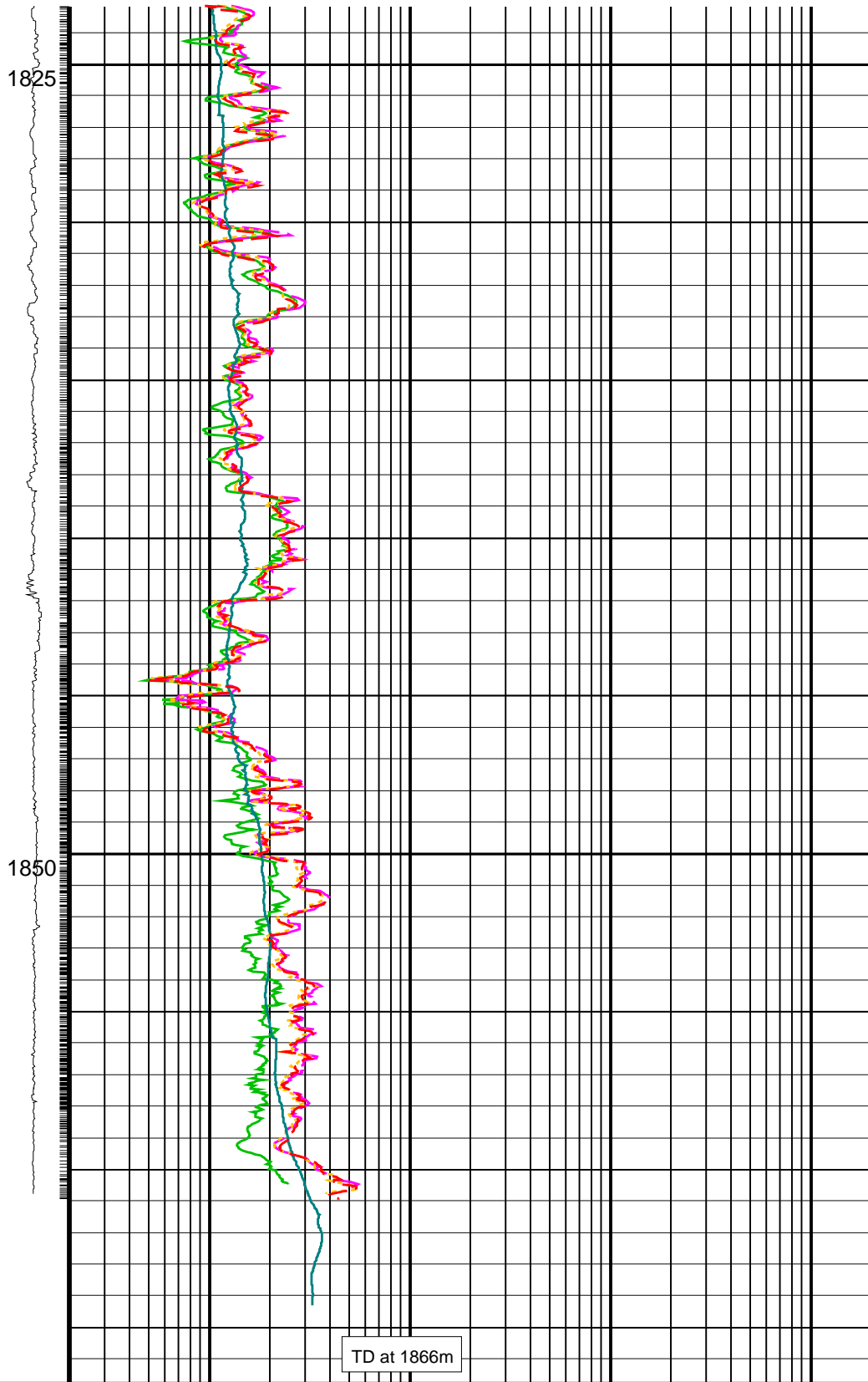
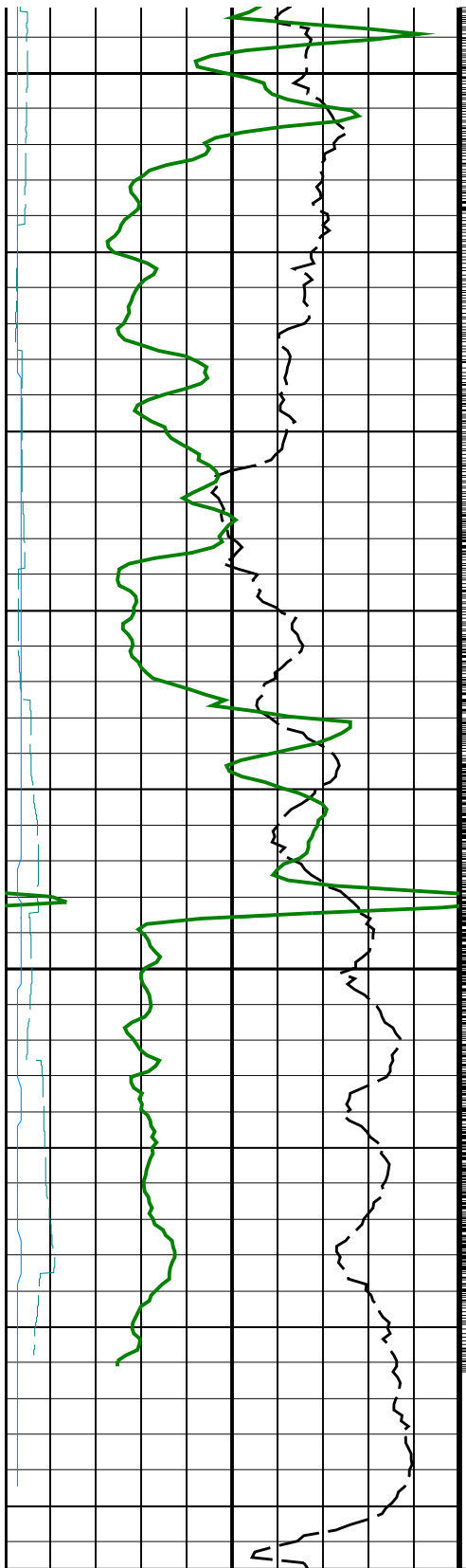
- ├ Gamma Ray samples
- └ RAB Ring samples

Rate of penetration, 5ft filtered (ROP5_RM) (M/HR)		0	BHC Ring Resistivity (RES_RING) (OHMM)		2000
RAB ring res Time After Bit (TAB_RAB_RING) (HR)		0	BHC Bit resistivity (RES_BIT) (OHMM)		2000
Gamma-Ray (3 LVL AVG) (GR_RAB) (GAPI)		0	BHC Deep Button Resistivity (RES_BD) (OHMM)		2000
RAB Tool Temperature (TTEM_RAB) (DEGC)		0	BHC Medium Button Resistivity (RES_BM) (OHMM)		2000
Rab rotation speed (RPM_RAB) (RPM)		150	BHC Shallow Button Resistivity (RES_BS) (OHMM)		2000
		250			-10









RAB Tool Temperature (TEM_RAB) (DEGC)	0	150
Gamma-Ray (3 LVL AVG) (GR_RAB) (GAPI)	0	200

Rab rotation speed (RPM_RAB) (RPM)	0.2	250	-10
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BHC Shallow Button Resistivity (RES_BS) (OHMM)	0.2	2000
BHC Medium Button Resistivity (RES_BM) (OHMM)	0.2	2000

RAB ring res Time After Bit (TAB_RAB_RING) (HR)	0	10
Rate of penetration, 5ft filtered (ROP5_RM) (M/HR)	60	0

0.2	BHC Deep Button Resistivity (RES_BD) (OHMM)	2000
0.2	BHC Bit resistivity (RES_BIT) (OHMM)	2000
0.2	BHC Ring Resistivity (RES_RING) (OHMM)	2000

PIP SUMMARY

- └ Gamma Ray samples
- └ RAB Ring samples

IDEAL Version: ID6_1C_03
IDEAL

RAB6-BA id6_1c_03

Output DLIS Files

DLIS RAB .007 FN:6 PRODUCER 29-Dec-2000 03:07 1695.4 M 1866.7 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
	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: 1189C PCM-3A

Field: Eastern Manus Back Arc Basin

Rig: JOIDES Resolution

IDEAL services from **Anadrill**

RAB Button & Ring Resistivities
Measured Depth
Scale 1:200

Schlumberger