

Company: **LDEO Borehole Research Group**

Well: **1189C** **PCM-3A**

Field: **Eastern Manus Back Arc Basin**

Rig: **JOIDES Resolution**

Rig: JOIDES Resolution Field: Eastern Manus Back Arc Basin Location: Bismarck Sea, PNG Well: 1189C Company: LDEO Borehole Research Group	Schlumberger		RAB Deep Button Image Measured Depth Scale 1:60			
			Total depth:	1866 m	Elevation	K.B.
	Spud date:	27 Dec 00	G.L.	-1689.1 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: RAB		Longitude E 151 40.5240'	Latitude S 03 43.2415'	
Depth logged: 1700 m To 1866 m		Mag decl: 6.56 deg		Other services:		
Date logged: 27 Dec 00 To 28 Dec 00		Mag dip: -21.78 deg				
Bore hole record			Casing record			
Hole size	from	to	Size	Density	from	to
9.875 in	1700 m	1866 m				
Mud record			Borehole deviation record			
Type	from	to	Min	Max	from	to
Sea Water	1700 m	1866 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	1700 m
Bit end depth	1866 m
Top interval logged	1700 m
Bottom interval logged	1860 m
Begin log: time	17:00
Begin log: date	27 Dec 00
End log: time	13:40
End log: date	28 Dec 00
Mud data	
Depth	1700 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	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

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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 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</p> <p>RAB memory data</p>	<p>REMARKS: RUN NUMBER</p>	<p>REMARKS: RUN NUMBER</p>

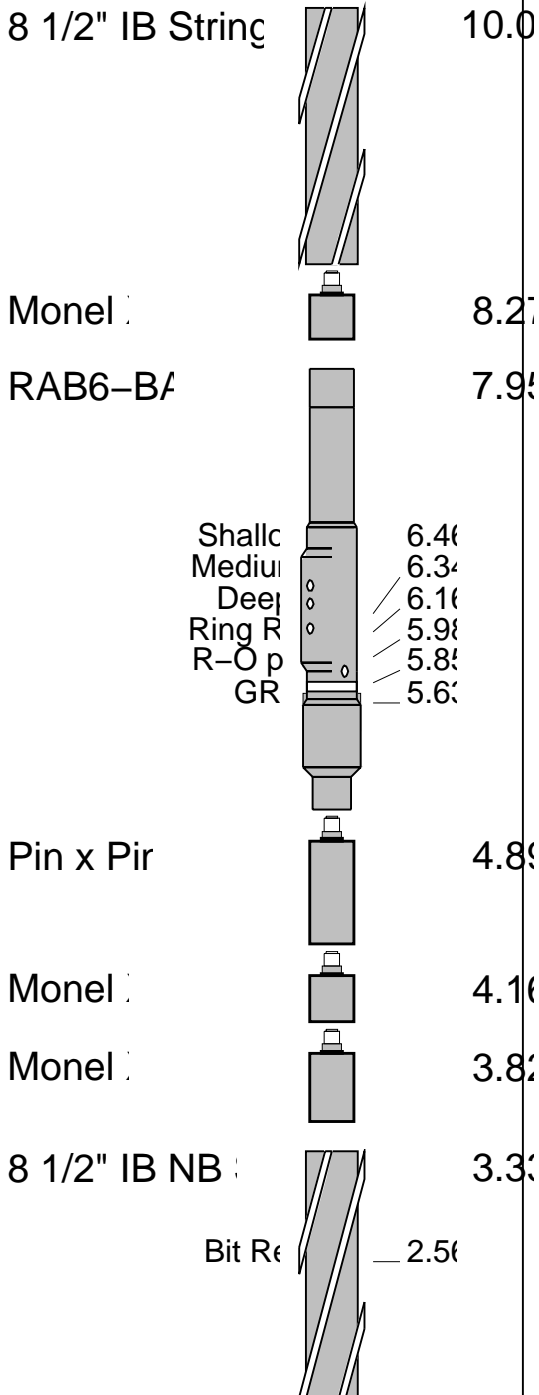
EQUIPMENT DESCRIPTION

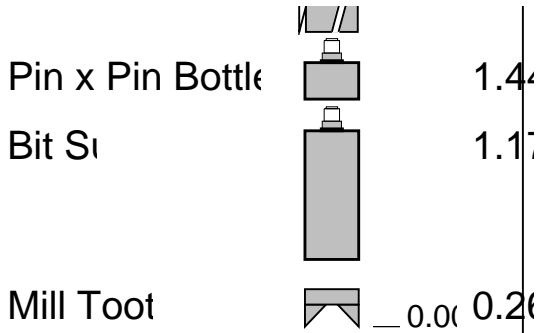
RUN1

RUN

RUN

DOWNHOLE E





MAXIMUM STRING DI
ALL LENGTHS I

IDEAL Version: ID6_1C_03
IDEAL

RAB6-BA id6_1c_03

Format: RABImageResFormat Vertical Scale: 1:60

Graphics File Created: 02-Jan-2001 17:12

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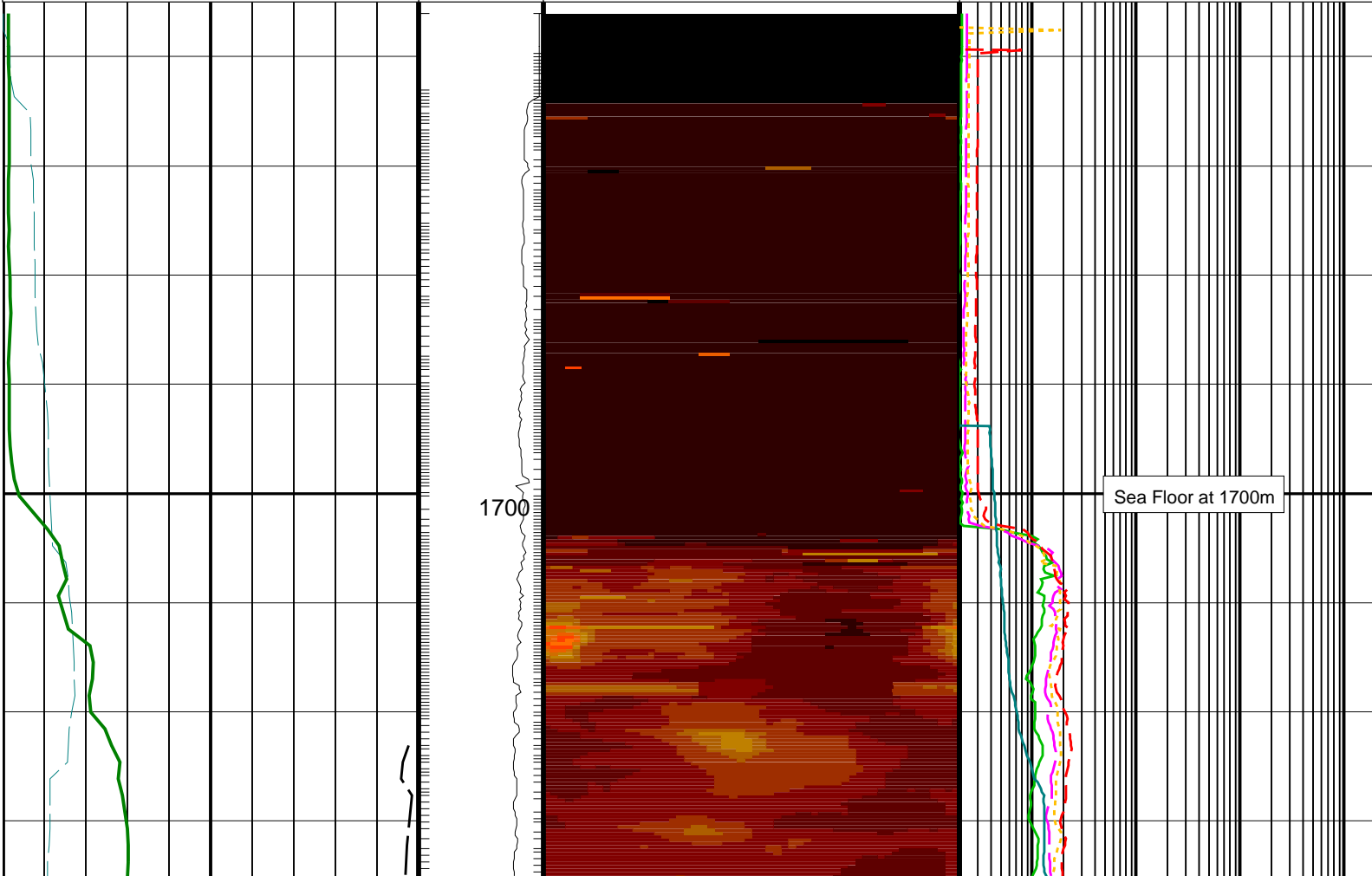
DLIS Name	Description	Value
	RAB: Button Sleeve Diameter	RAB6: 8 1/8 IN
	LWD RM: Log direction	DOWN
	LWD RM: Default directory	D:\users\ideal\fm\Clients\ODP\PCM-3a\LWD002\
	LWD RM: Default file extension	BIN_DB
	RAB: Stabilizer Diameter	RAB6: 8.25-8.5 IN
	LWD RM: Generate techlog only?	0
	LWD RM: Flush depth streams?	YES
	LWD RM: Depth file name	DEPTH
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
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	0.00301584
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	5.85 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_K_FACTOR	RAB: Ring K Factor	0.106596
RMS_RM	Resistivity of Mud Sample (RM)	0.222 OHMM

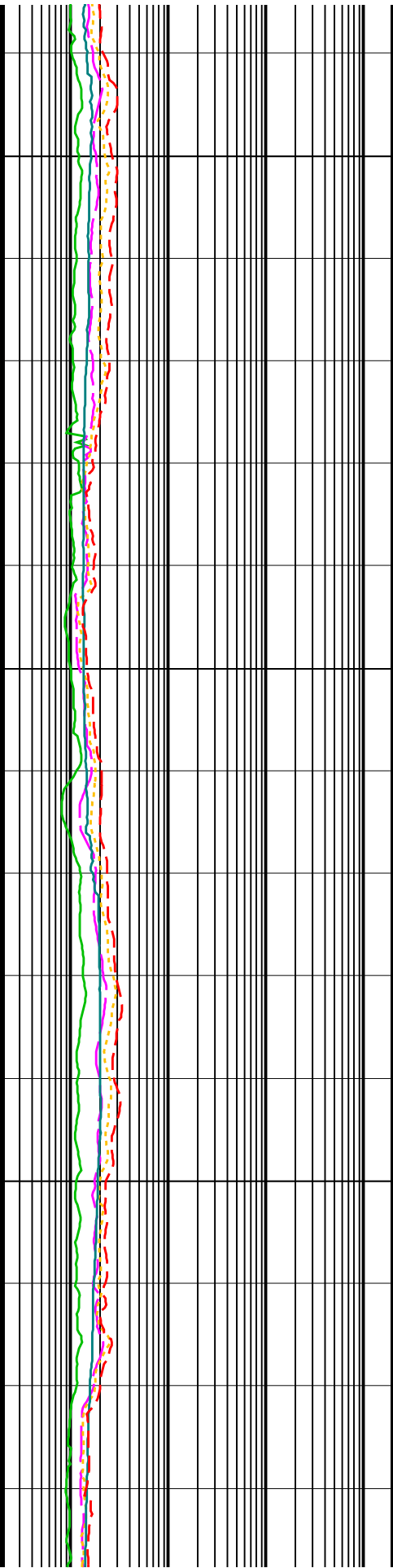
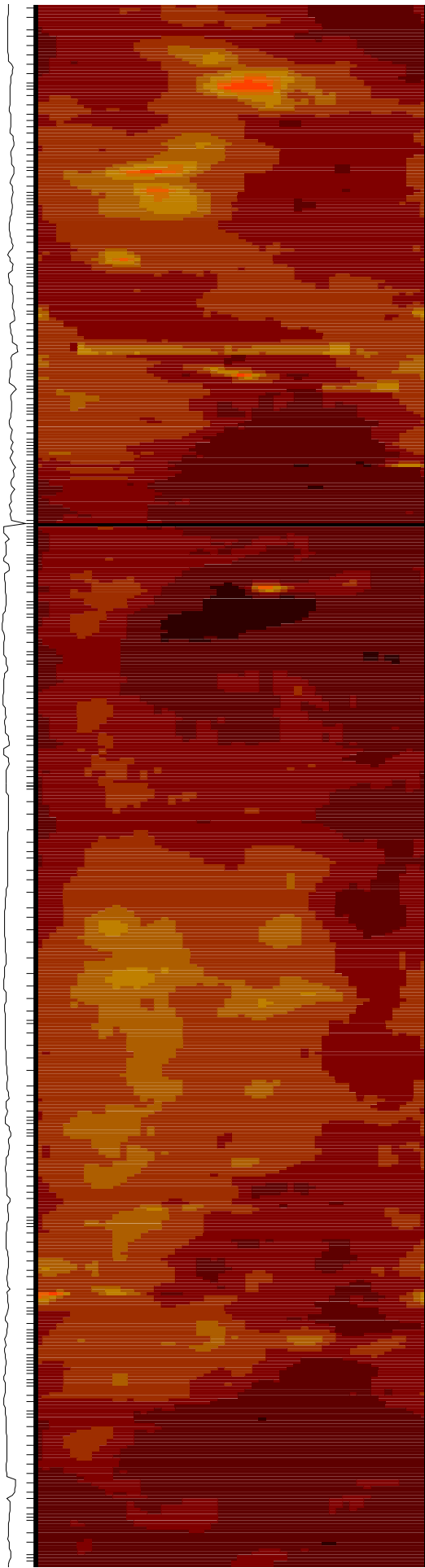
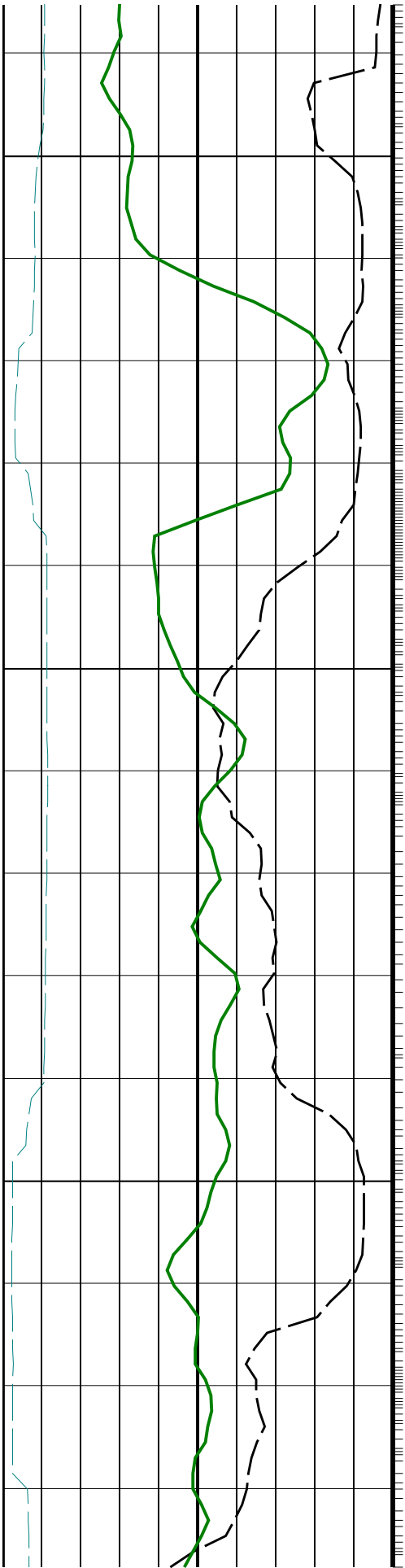
RING_K_FACTOR	RAB: Ring K Factor	0.106596	
RMS_RM	Resistivity of Mud Sample (RM)	0.222	OHMM
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	0.00415075	
STAB	RAB: Run with Stabilizer	YES	
TOOLTYPE	RAB: Azimuthal Tool	YES	
TS_VERSION	RAB: ToolScope Software Version	6.1013	
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_PILOT	
WIN_SIZE_DYN_IMAGE	RAB: Window Size for Scaling Dynamic Image	0.9144	M

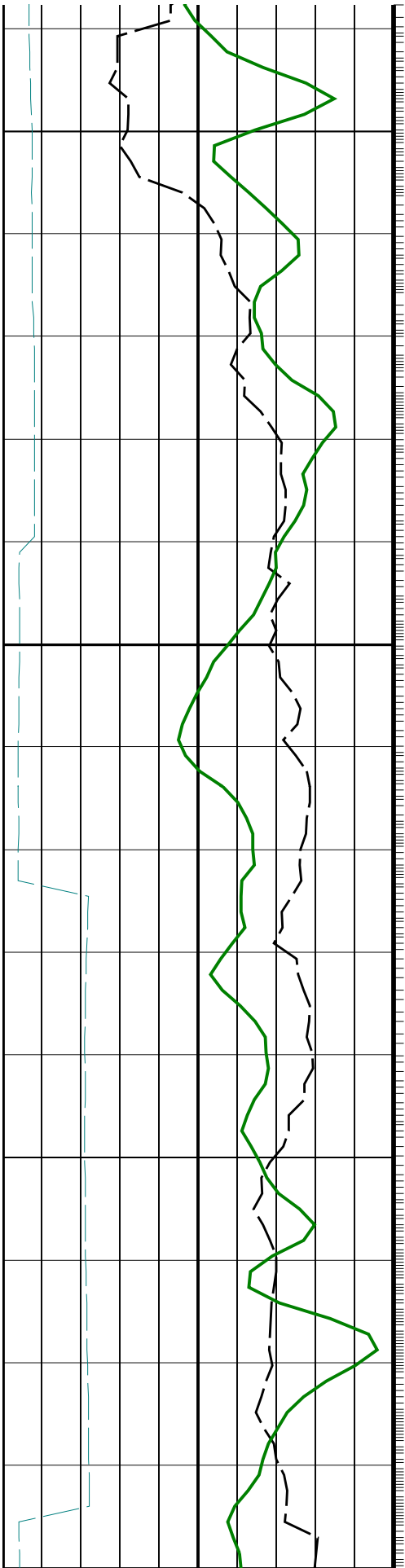
PIP SUMMARY

- ┆ RAB Deep Button Samples
- ┆ Gamma Ray Samples

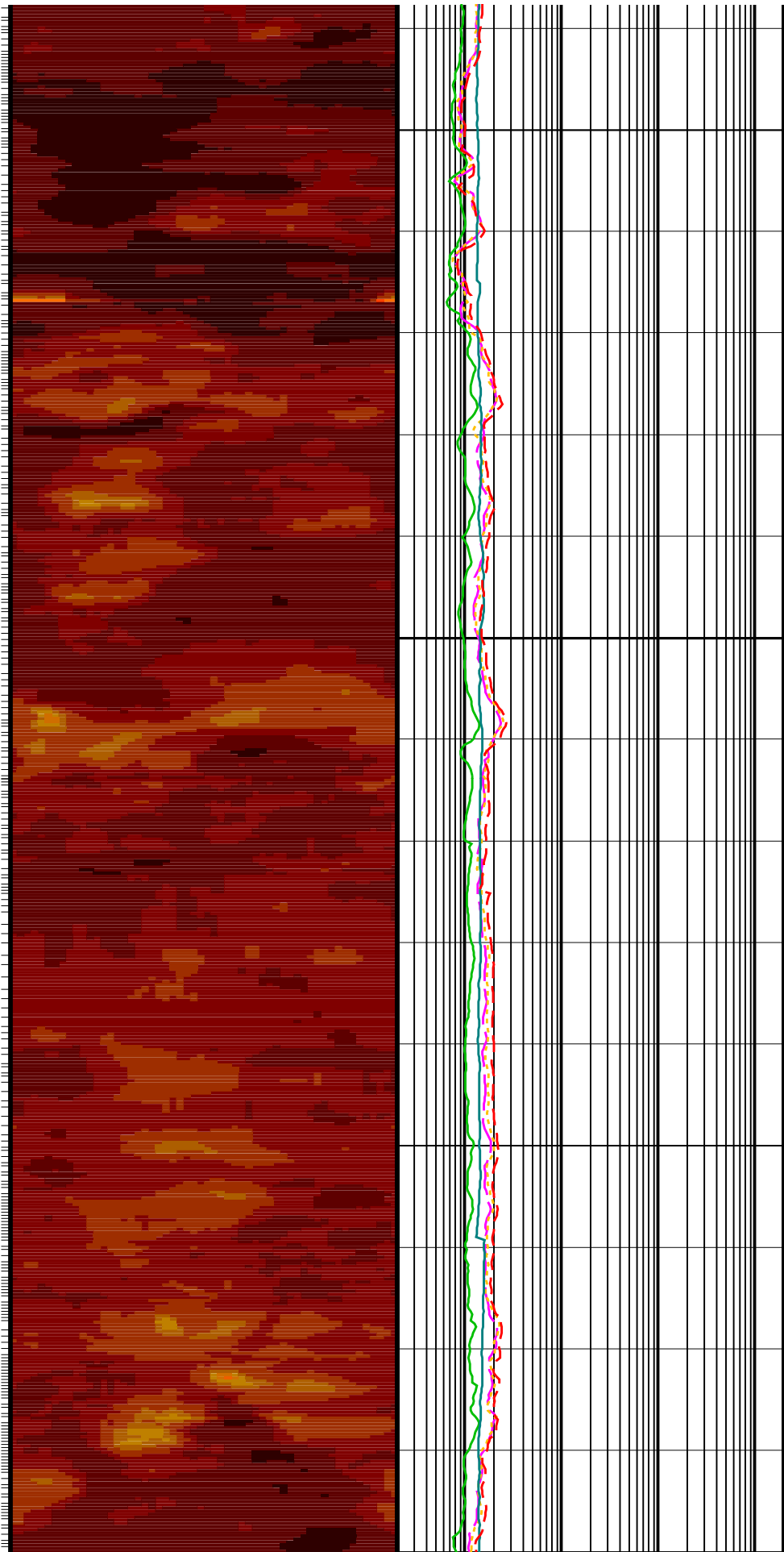
Rate of penetration, 5ft filtered (ROP5_		BHC Ring Resistivity (RES_RING)	
RM)		(OHMM)	
60	0	0.2	2000
(M/HR)			
Deep Button Resistivity Time After Bit		BHC Bit resistivity (RES_BIT)	
(TAB_RAB_BD)		(OHMM)	
0	10	0.2	2000
(HR)			
RAB Gamma Ray (GR_RAB)		BHC Deep Button Resistivity (RES_BD)	
(GAPI)		(OHMM)	
0	200	0.2	2000
RAB Rotational Speed		BHC Medium Button Resistivity (RES_BM)	
(RPM_RAB)		(OHMM)	
250	-10	0.2	2000
(RPM)			
RAB Deep button Image (R3IM)		BHC Shallow Button Resistivity (RES_BS)	
(----)		(OHMM)	
		0.2	2000

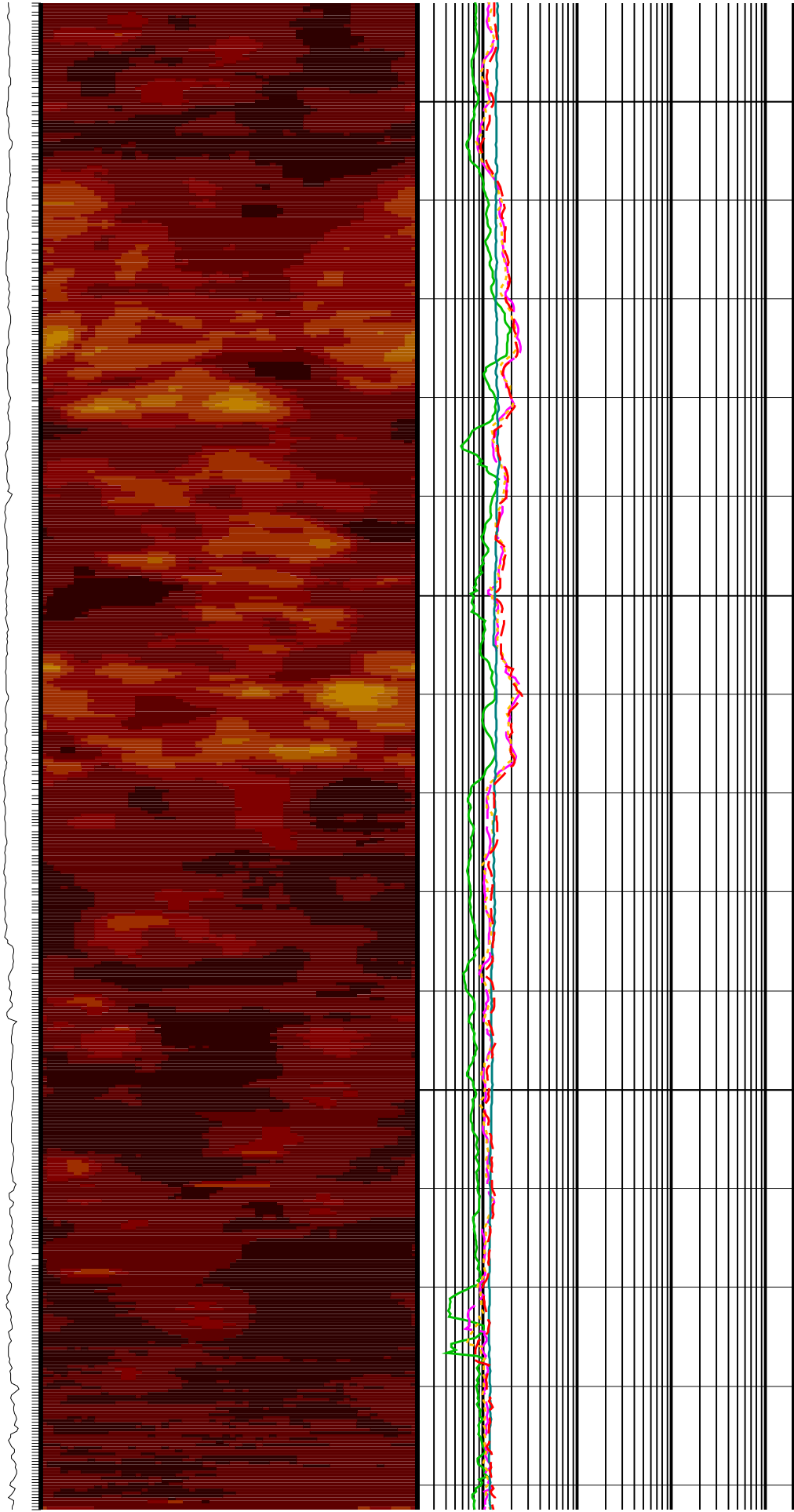
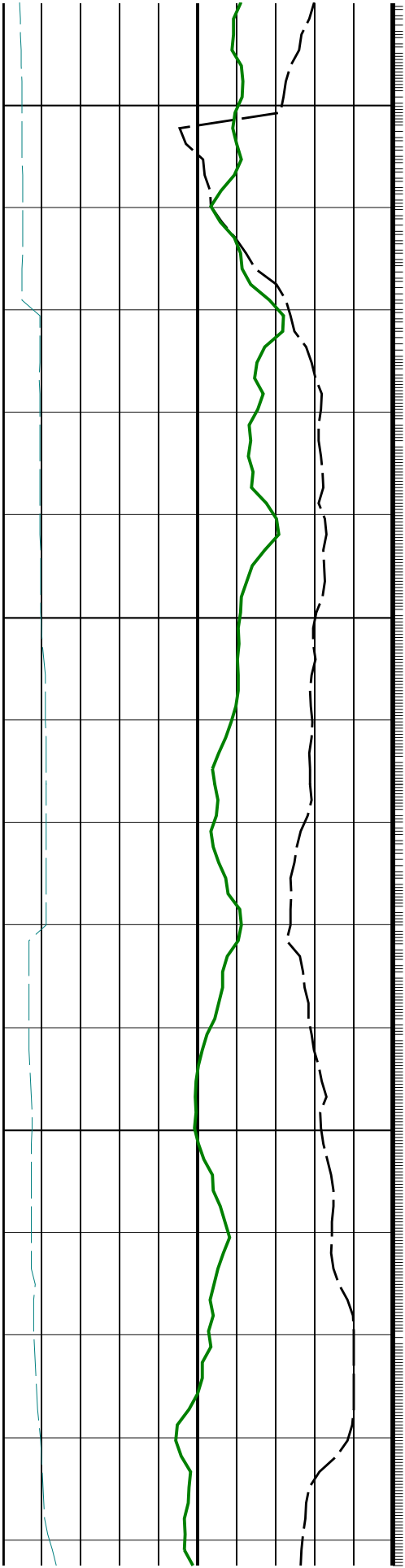


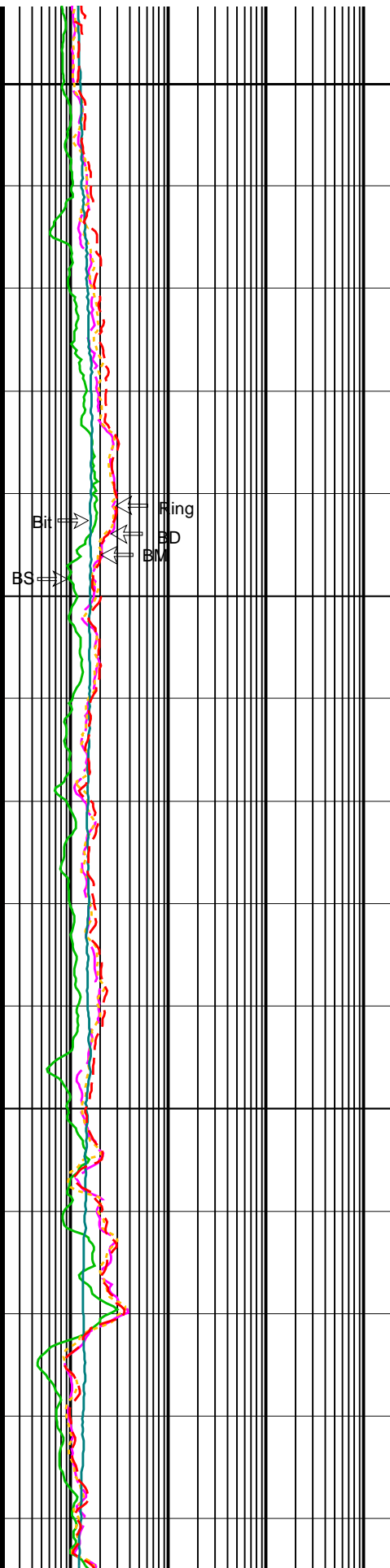
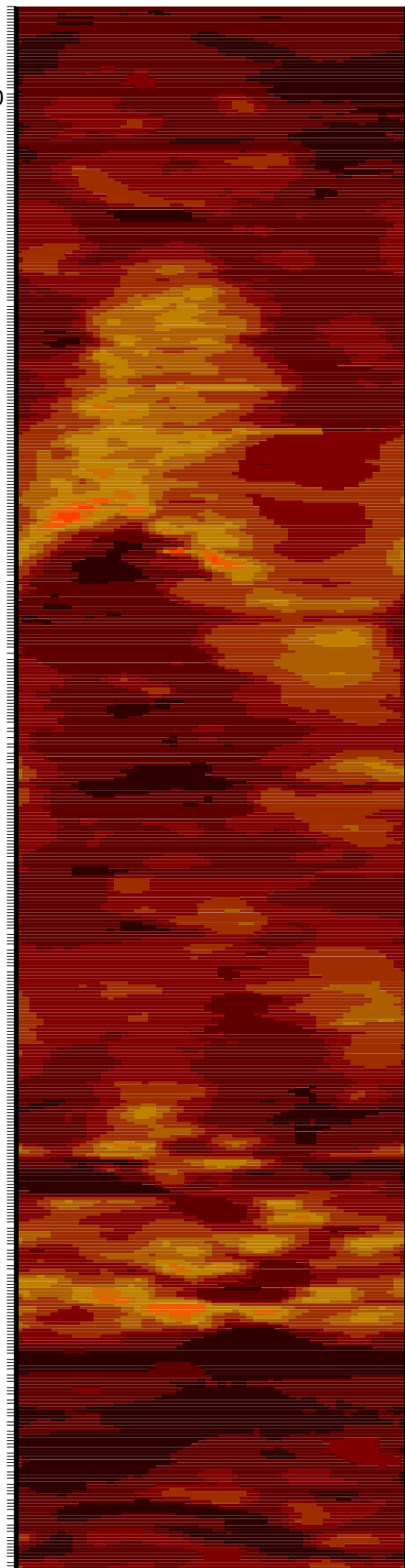
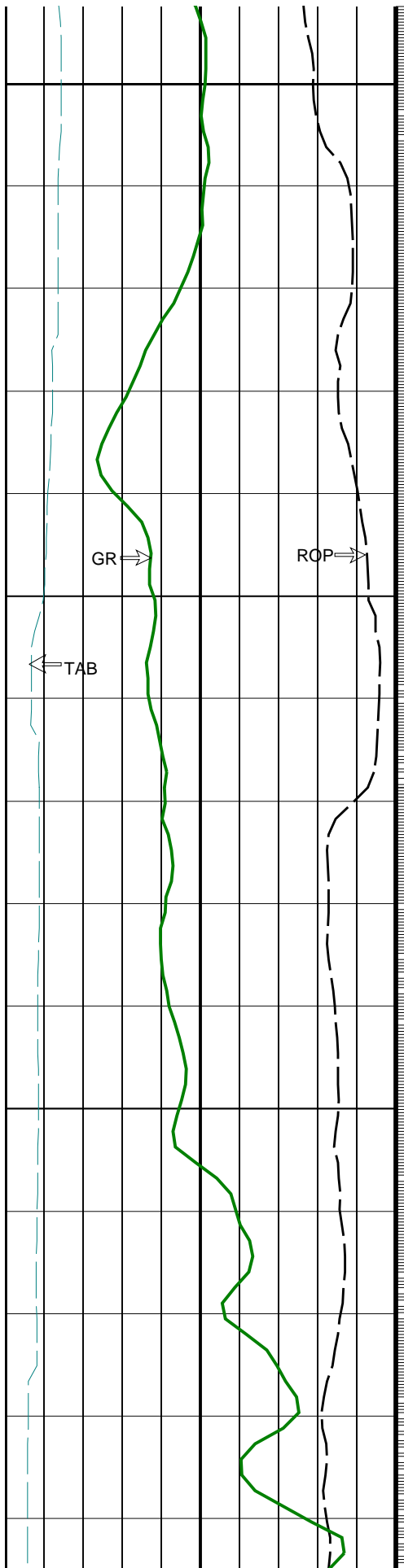


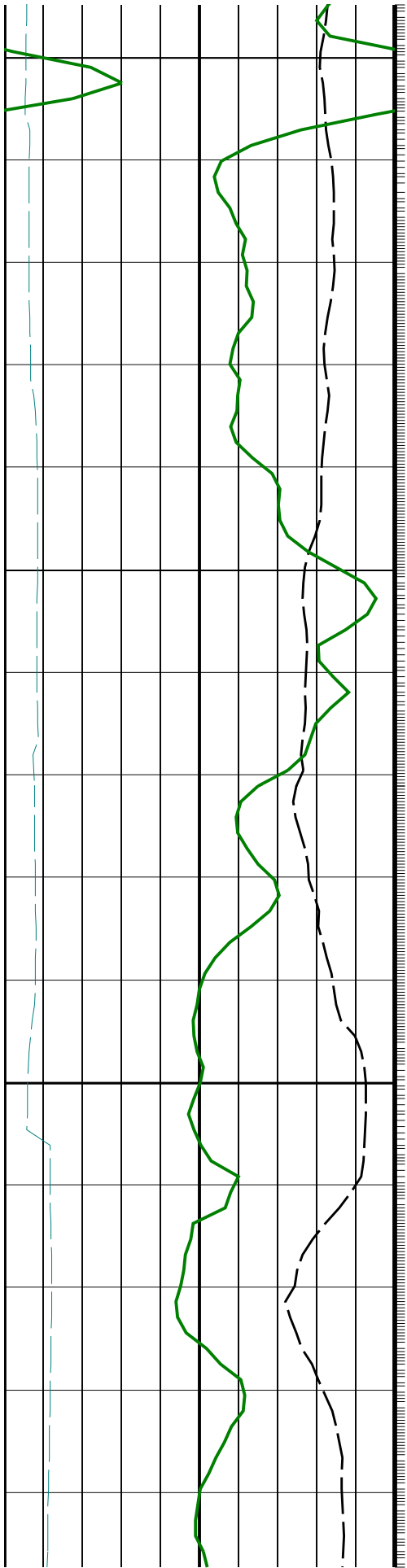


1725

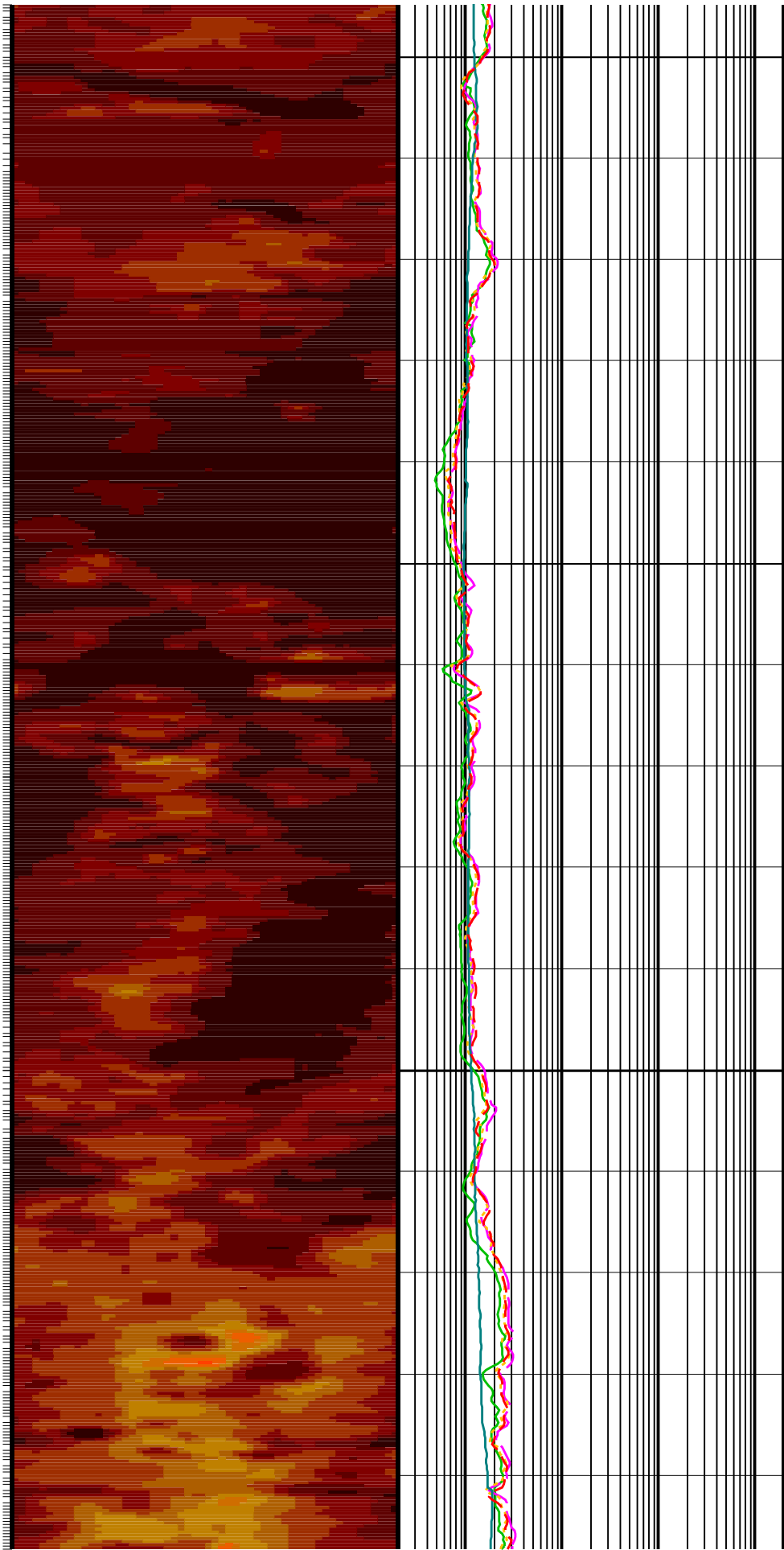


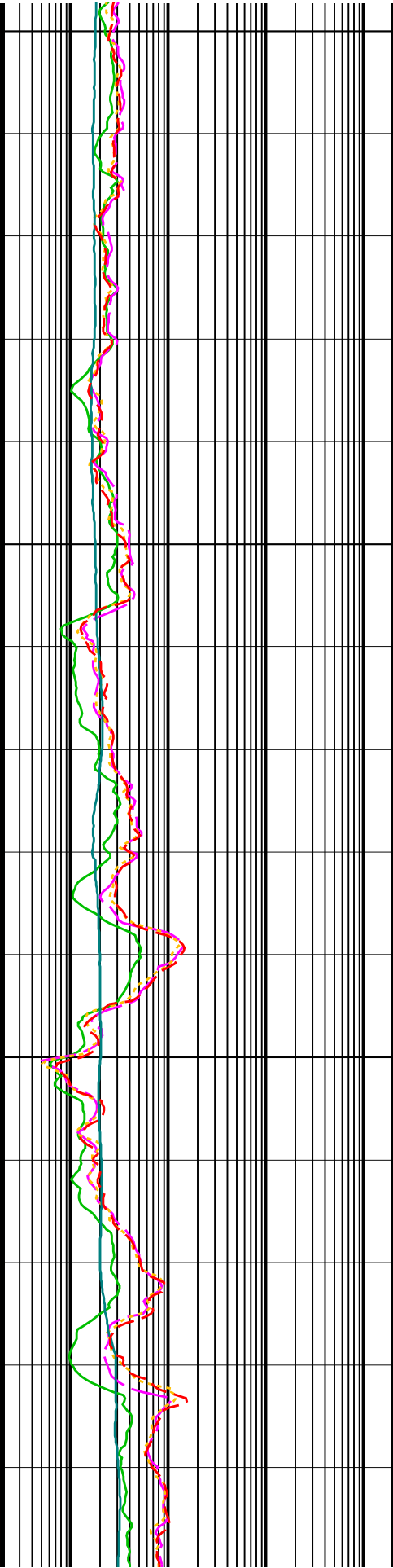
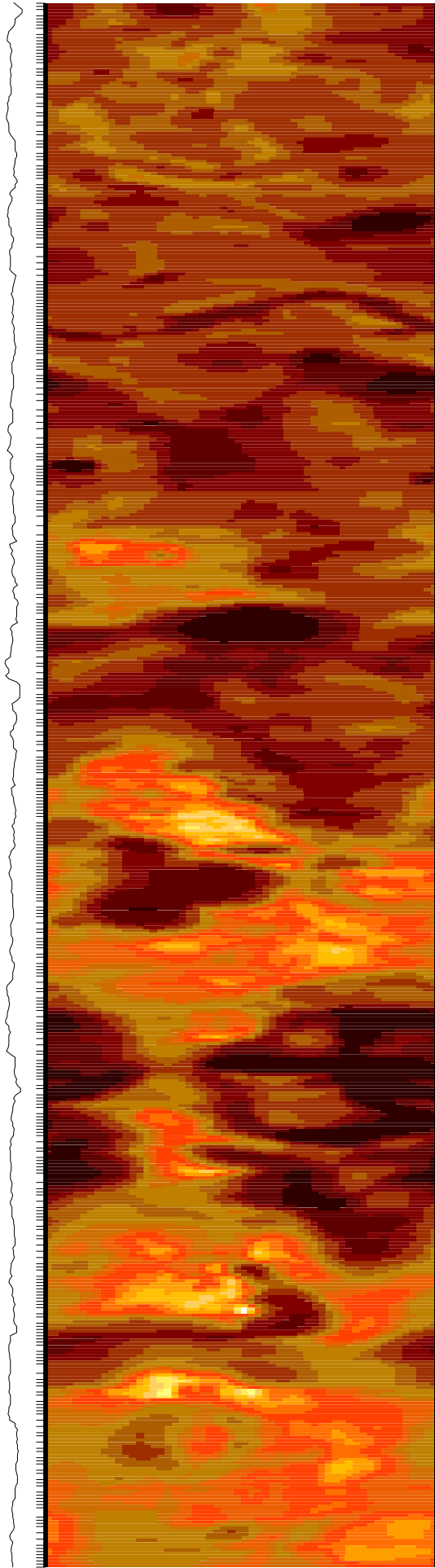
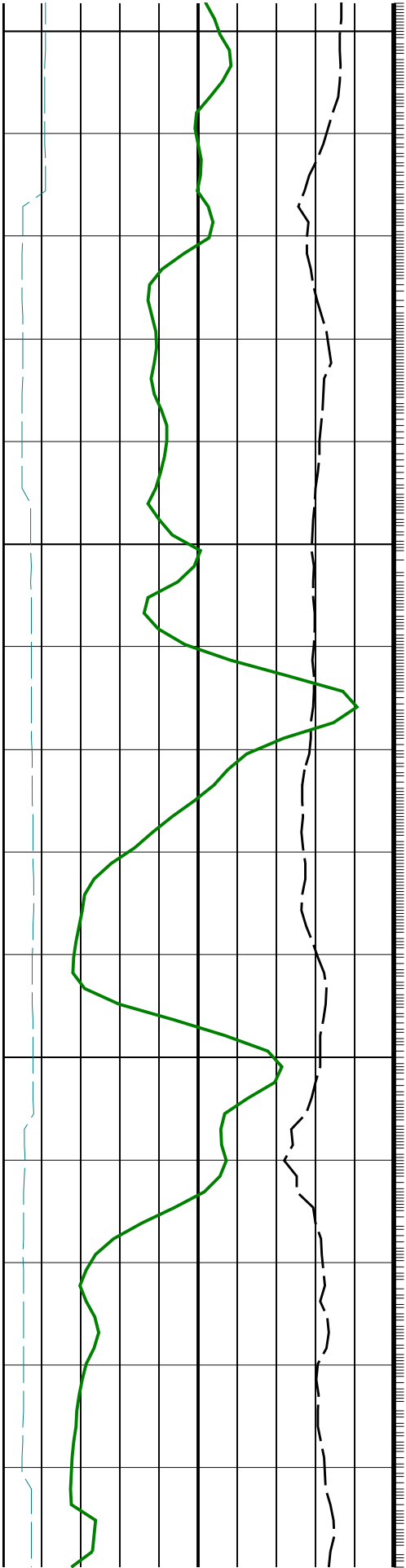


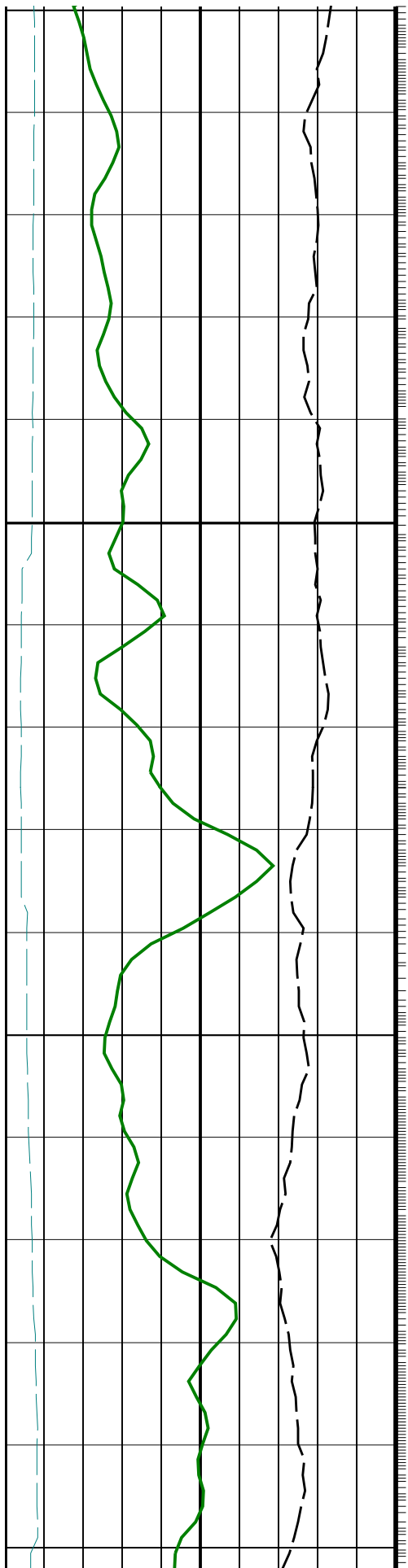




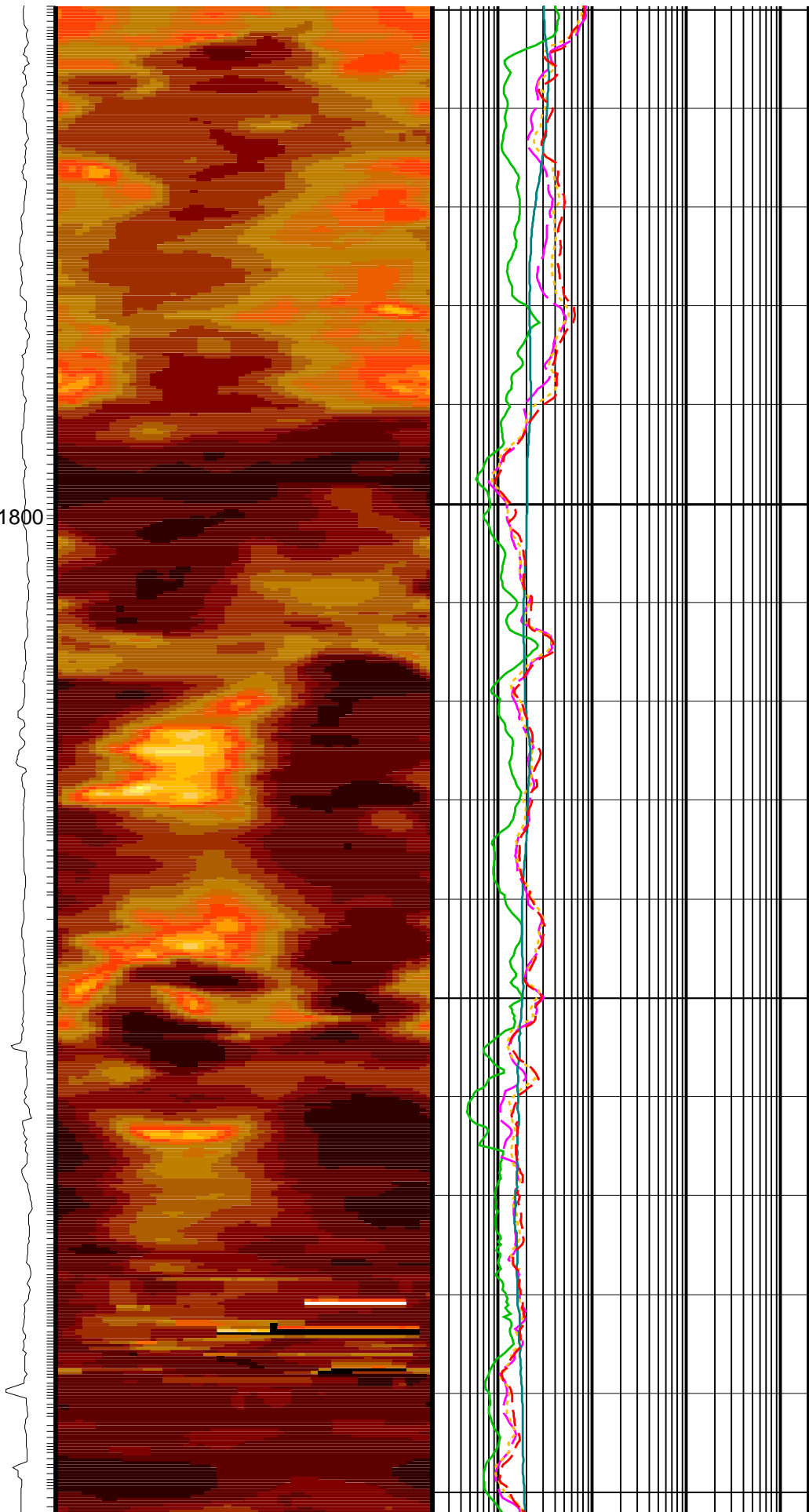
1775

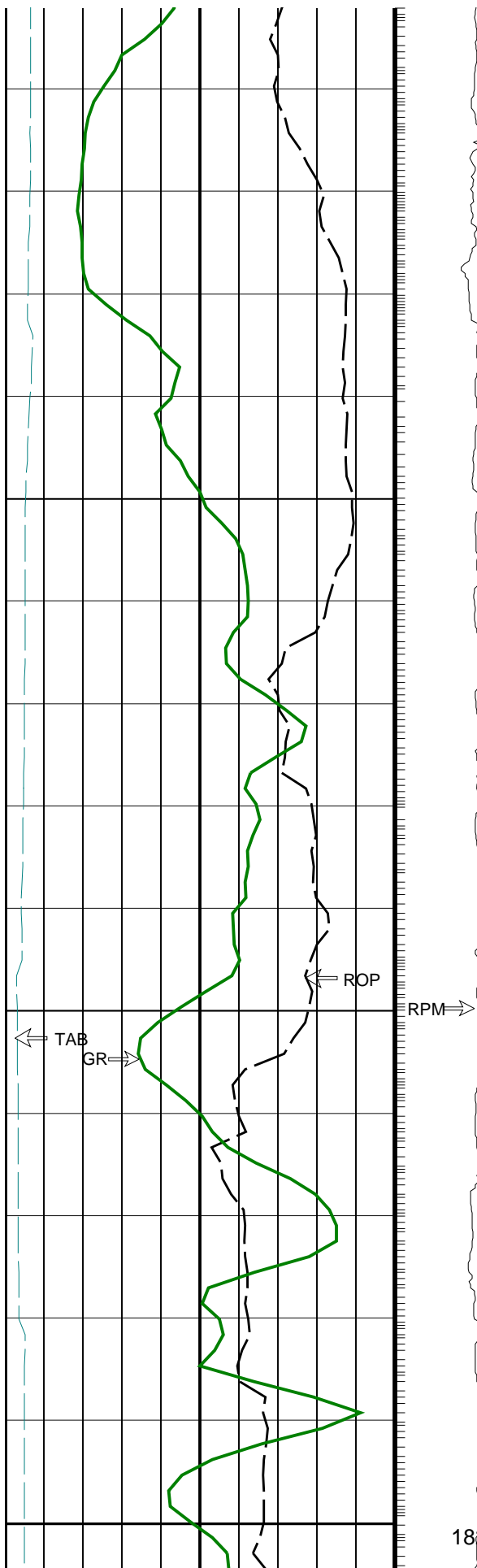




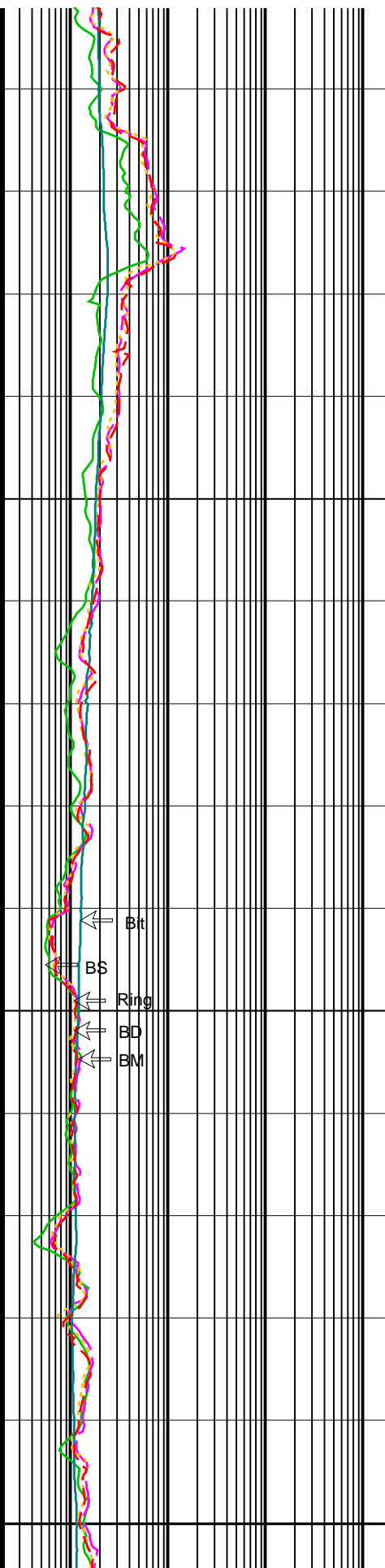
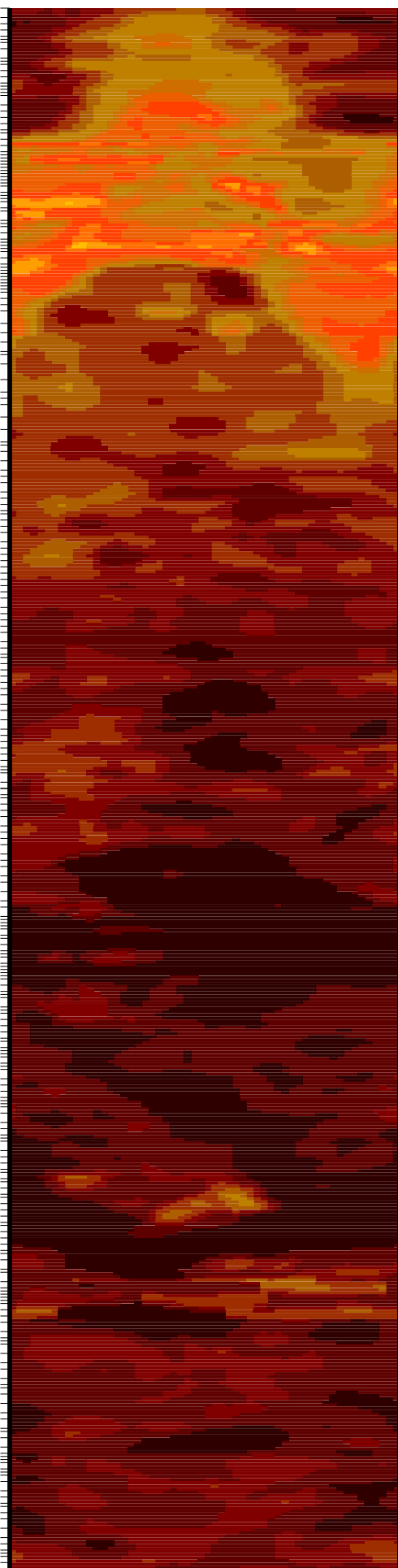


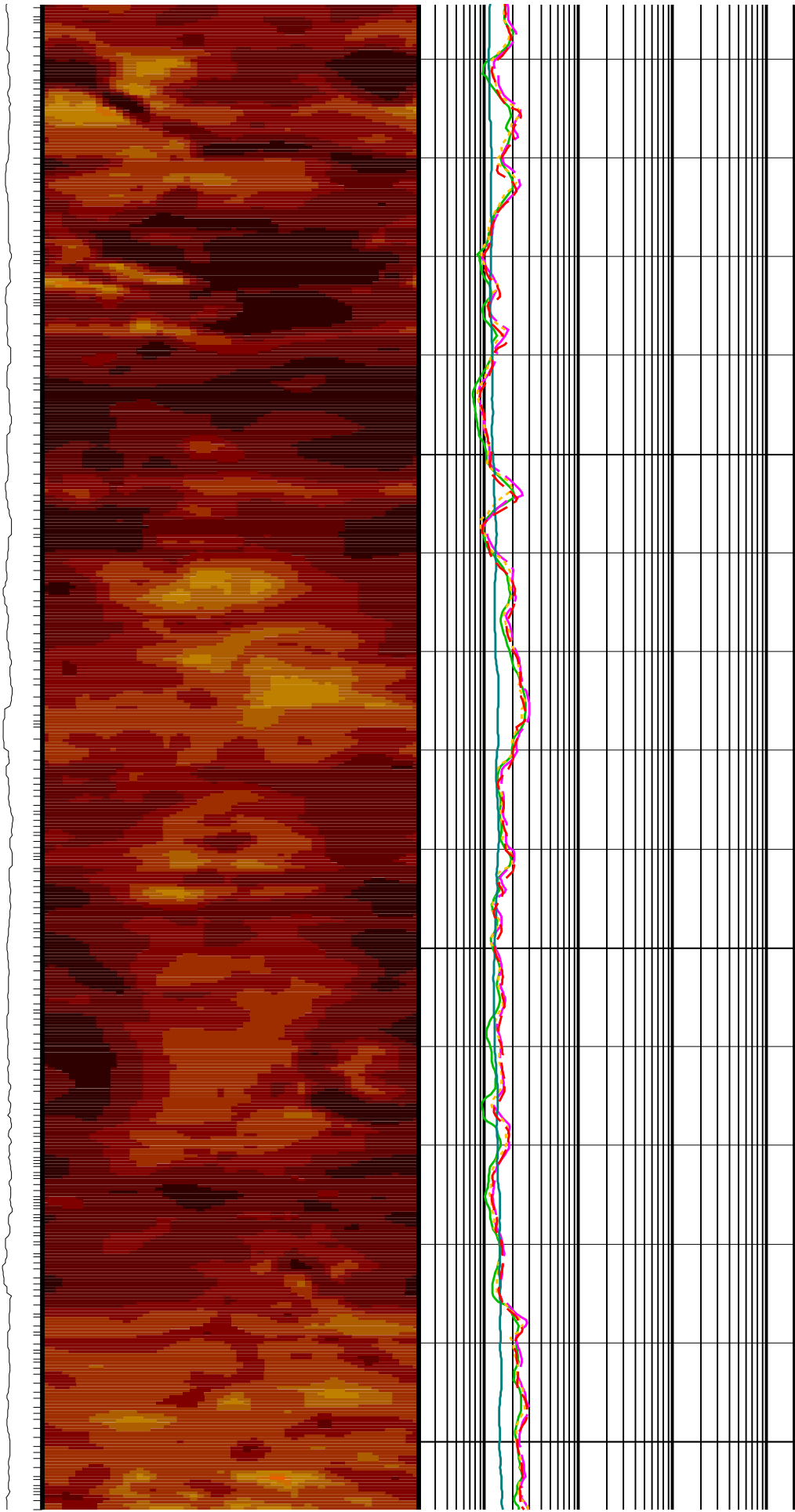
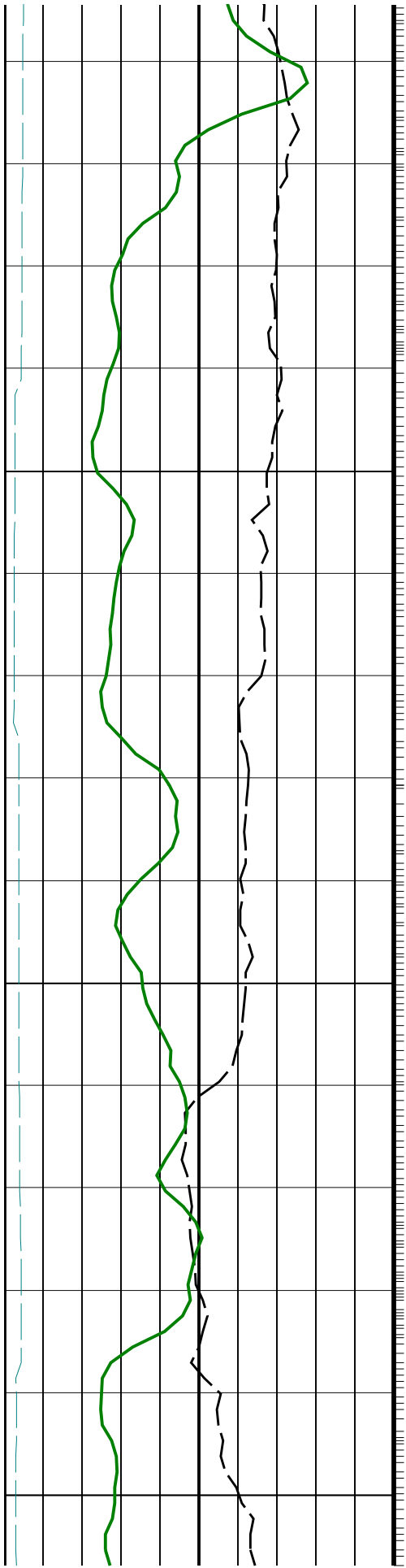
1800

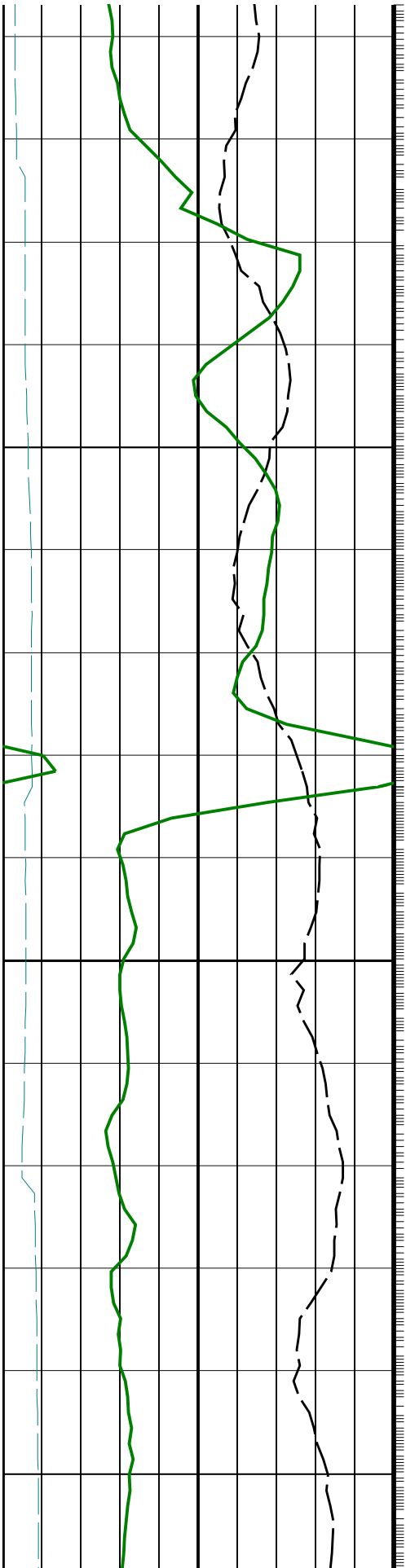




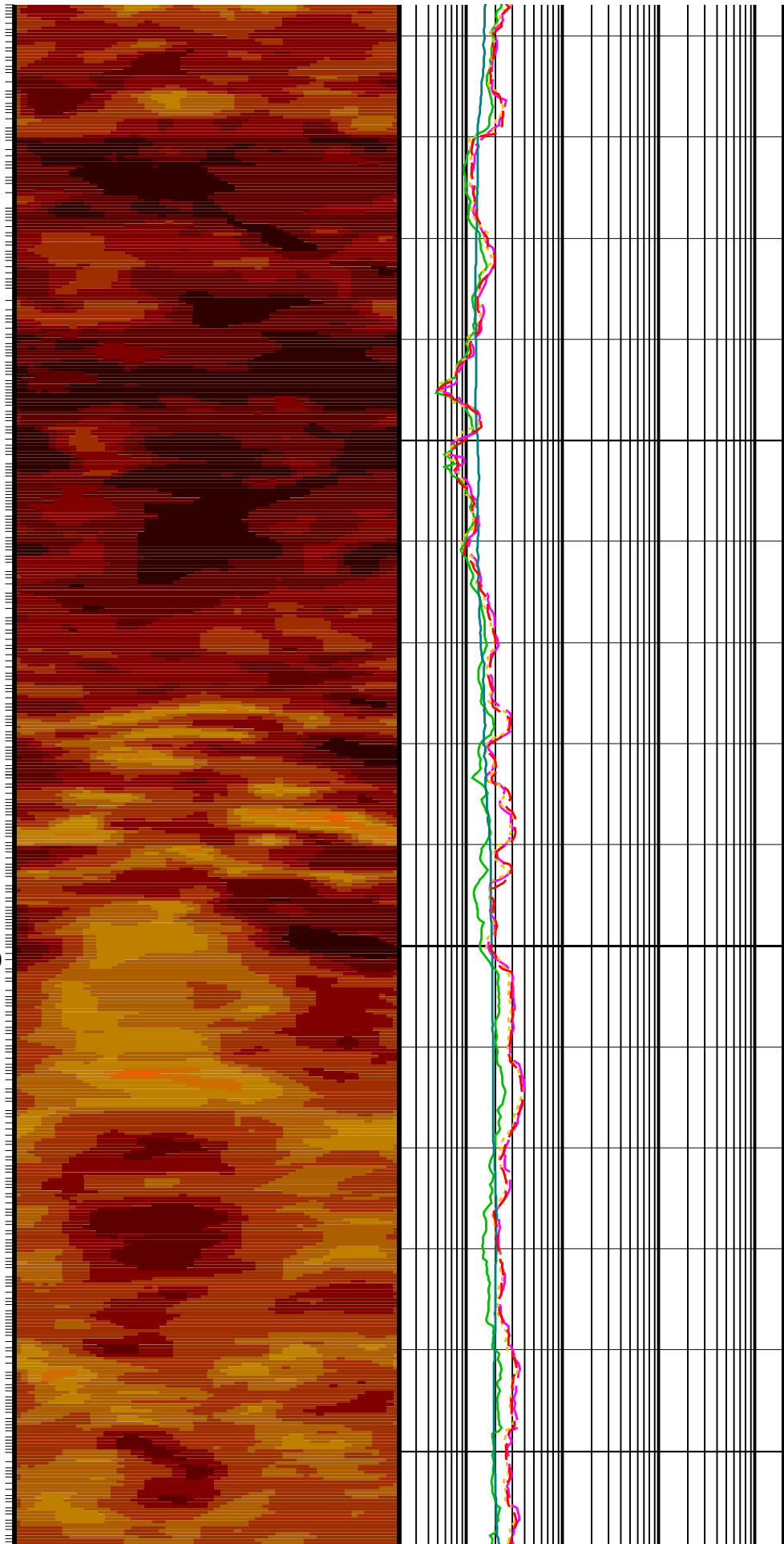
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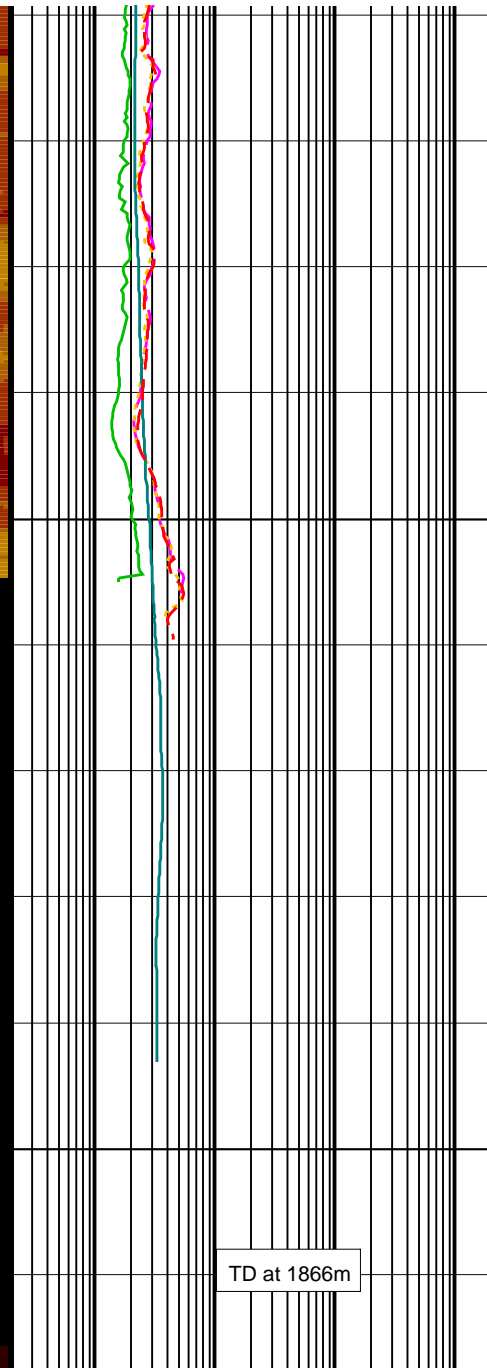
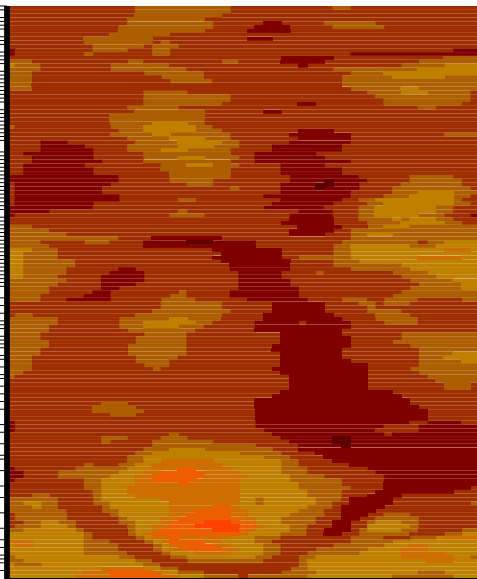
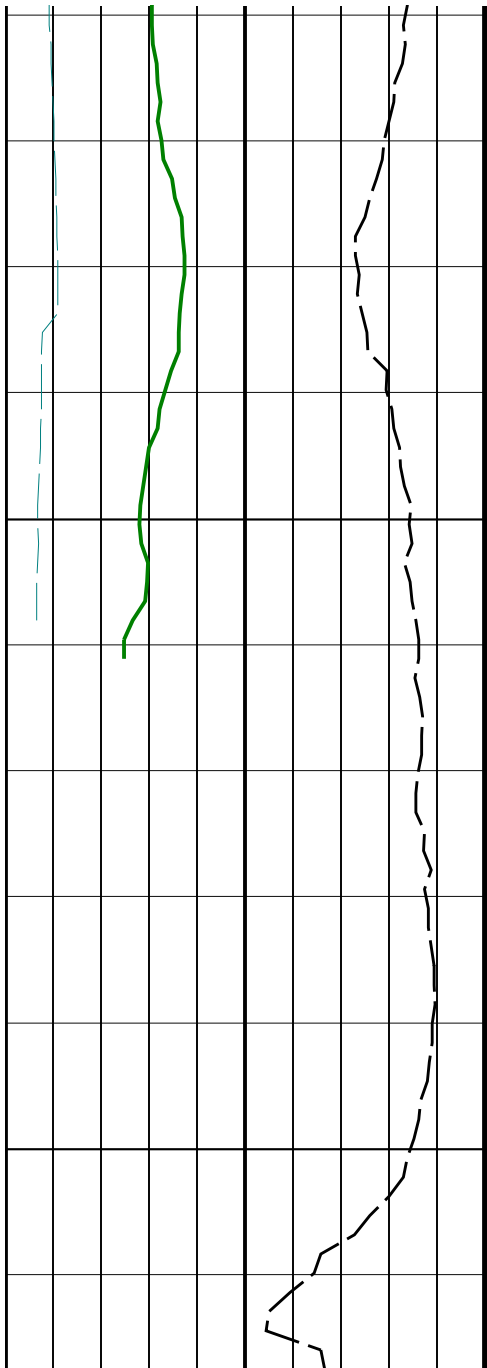






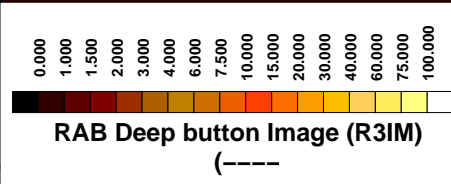
1850





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

RAB Rotational Speed (RPM_RAB) (RPM)	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
BHC Deep Button Resistivity (RES_BD) (OHMM)	0.2	2000
BHC Bit resistivity (RES_BIT) (OHMM)	0.2	2000
BHC Ring Resistivity (RES_RING) (OHMM)	0.2	2000

PIP SUMMARY

- ├ RAB Deep Button Samples
- ├ Gamma Ray Samples

IDEAL Version: ID6_1C_03
IDEAL

RAB6-BA id6_1c_03

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

RAB Deep Button Image
Measured Depth

