

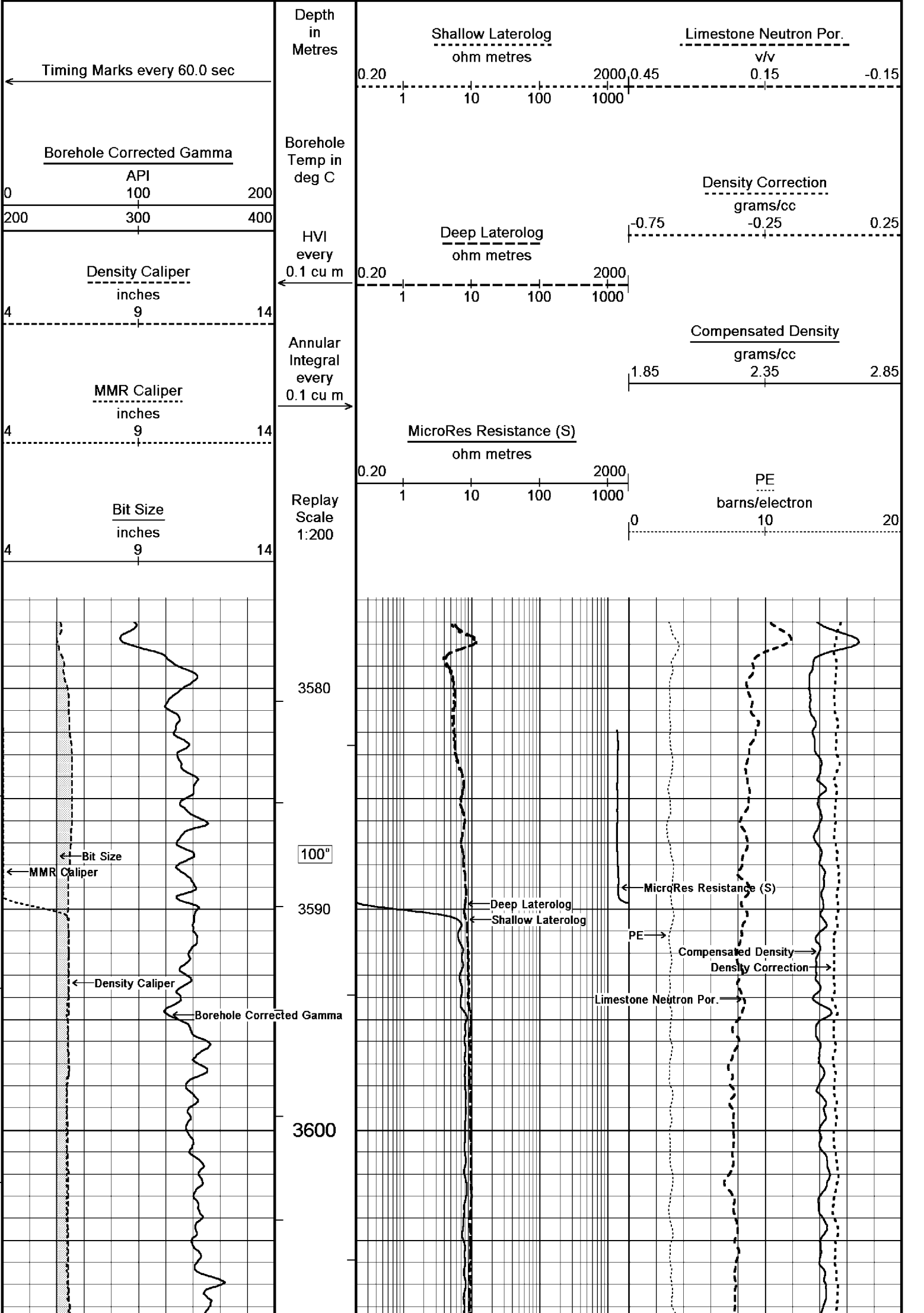
# Reeves

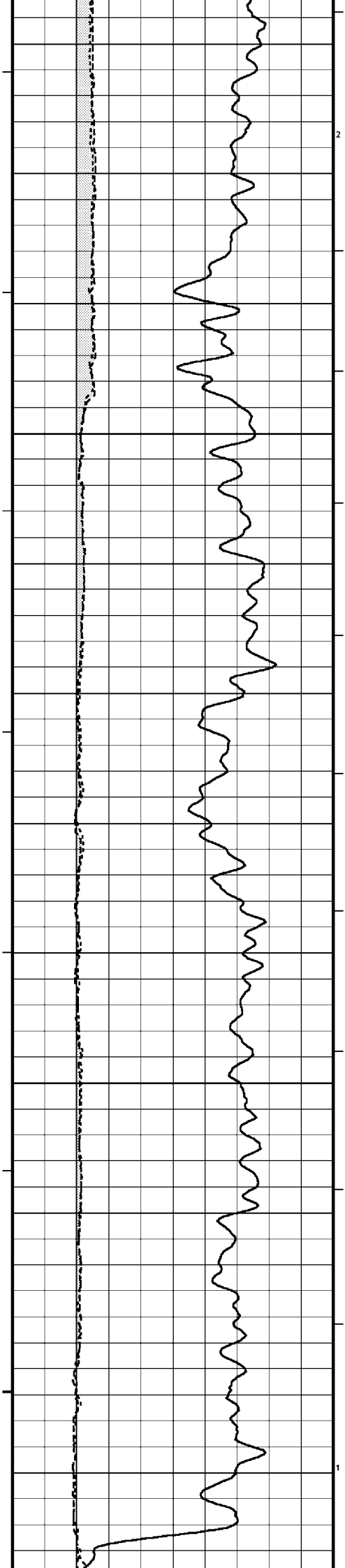
## DUAL LATEROLOG - GR DENSITY - NEUTRON 1:200 MD

COMPANY	ESSO AUSTRALIA PTY. LTD.			
WELL	FLOUNDER A-18a			
FIELD	GIPPSLAND BASIN			
PROVINCE/COUNTY	BASS STRAIT			
COUNTRY/STATE	AUSTRALIA			
LOCATION	5758711.43 m N, 625855.81 m E 38°18'39.155" S, 148°26'22.358" E			
LSD	SEC	TWP	RGE	Other Services MICRO LATEROLOG COMPENSATED SONIC
API Number				
Permit Number				
Permanent Datum MSL	, Elevation 0 metres			
Log Measured From RT@33.85 metres above Permanent Datum				
Drilling Measured From RT				
Date	30-Jun-2003			Elevations: KB DF 33.85 GL -93.00 metres
Run Number	2			
Depth Driller	3737.00			metres
Depth Logger	3736.85			metres
First Reading	3736.00			metres
Last Reading	3577.00			metres
Casing Driller	3329.50			metres
Casing Logger	3329.00			metres
Bit Size	6.00			inches
Hole Fluid Type	KCl/PPH/AGLY			
Density / Viscosity	9.90 lb/USg			75.00 sec/qt
PH / Fluid Loss	9.00			2.60 ml/30Min
Sample Source	FLOWLINE			
Rm @ Measured Temp	0.118 @ 25.0			ohm-m
Rmf @ Measured Temp	0.103 @ 25.0			ohm-m
Rmc @ Measured Temp	0.28 @ 25.0			ohm-m
Source Rmf / Rmc	PRESS			PRESS
Rm @ BHT	0.044 @ 106.5			ohm-m
Time Since Circulation	15 HRS			
Max Recorded Temp	106.50			deg C
Equipment Name	COMPACT			
Equipment / Base	1			SALE
Recorded By	M. Barnes, P. Hodges			
Witnessed By	E. Espiritu			G. McManus, S. Mooney
Circ. Stopped	2300 29Jun03			

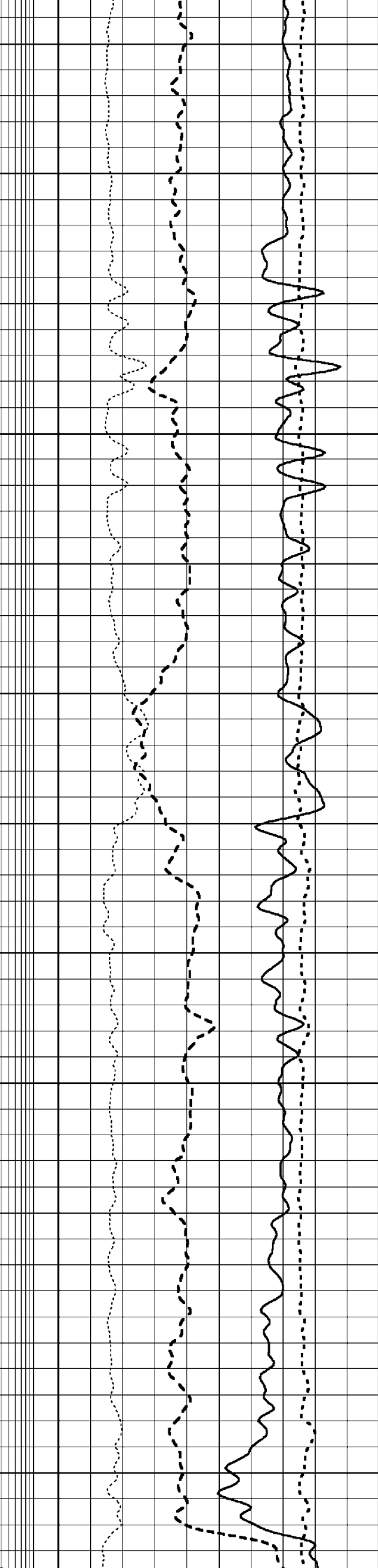
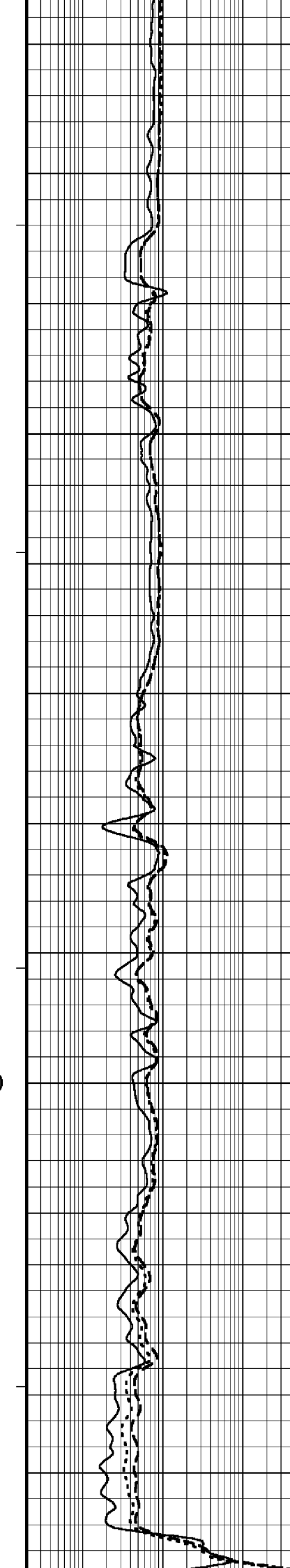
BOREHOLE RECORD				
Bit Size inches		Depth From metres	Depth To metres	
8.500		1225.00	3337.40	
6.000		3329.50	3736.00	
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	1225.00	0.00
R3	7.000	0.00	3329.50	26.00
REMARKS				
DRILLING RIG: NABORS (ISDL) 453.				
REEVES COMPACT WIRELINE TOOLS RUN ON SCHLUMBERGER UNIT.				
HTHP: 9.2 ml/30 min @ 121°C				
MAX DEVIATION: 57.5° @ 1307 m MD.				
MAX DOG LEG SEVERITY: 5.57°/30 m MD.				
REEVES CREW: M.BARNES, G.MCMANUS, S.MOONEY, P.HODGES.				

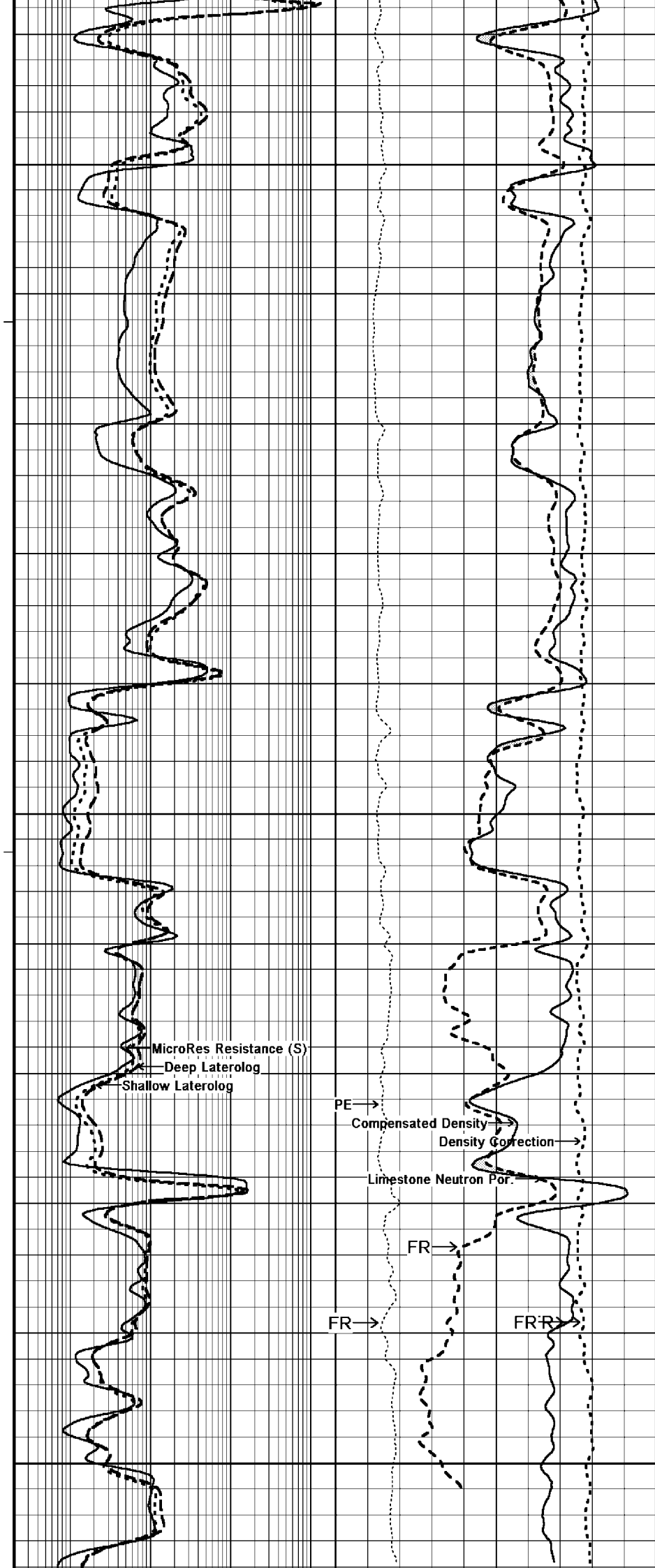
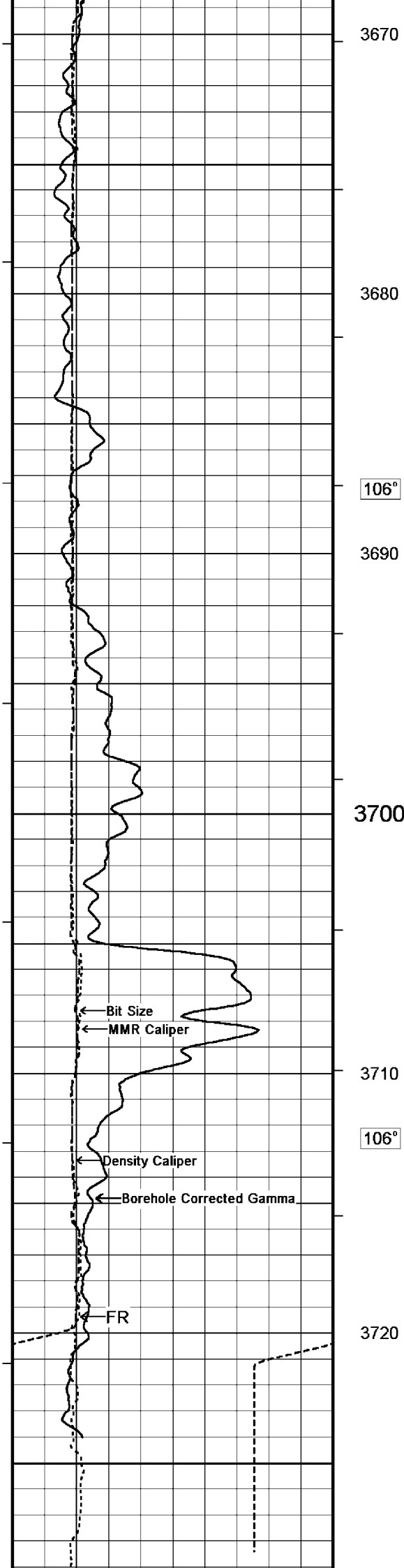
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

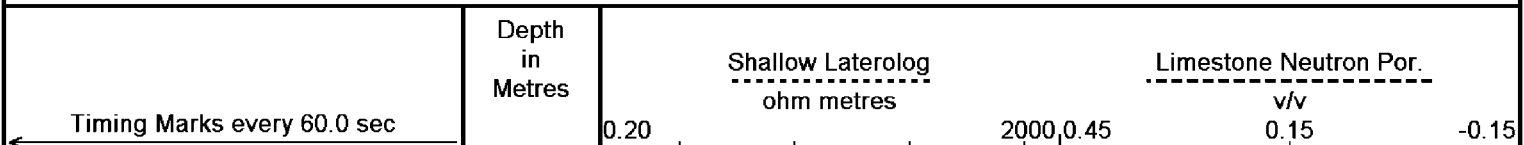
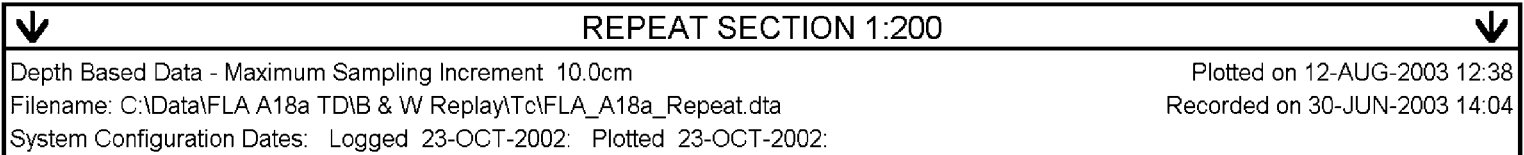
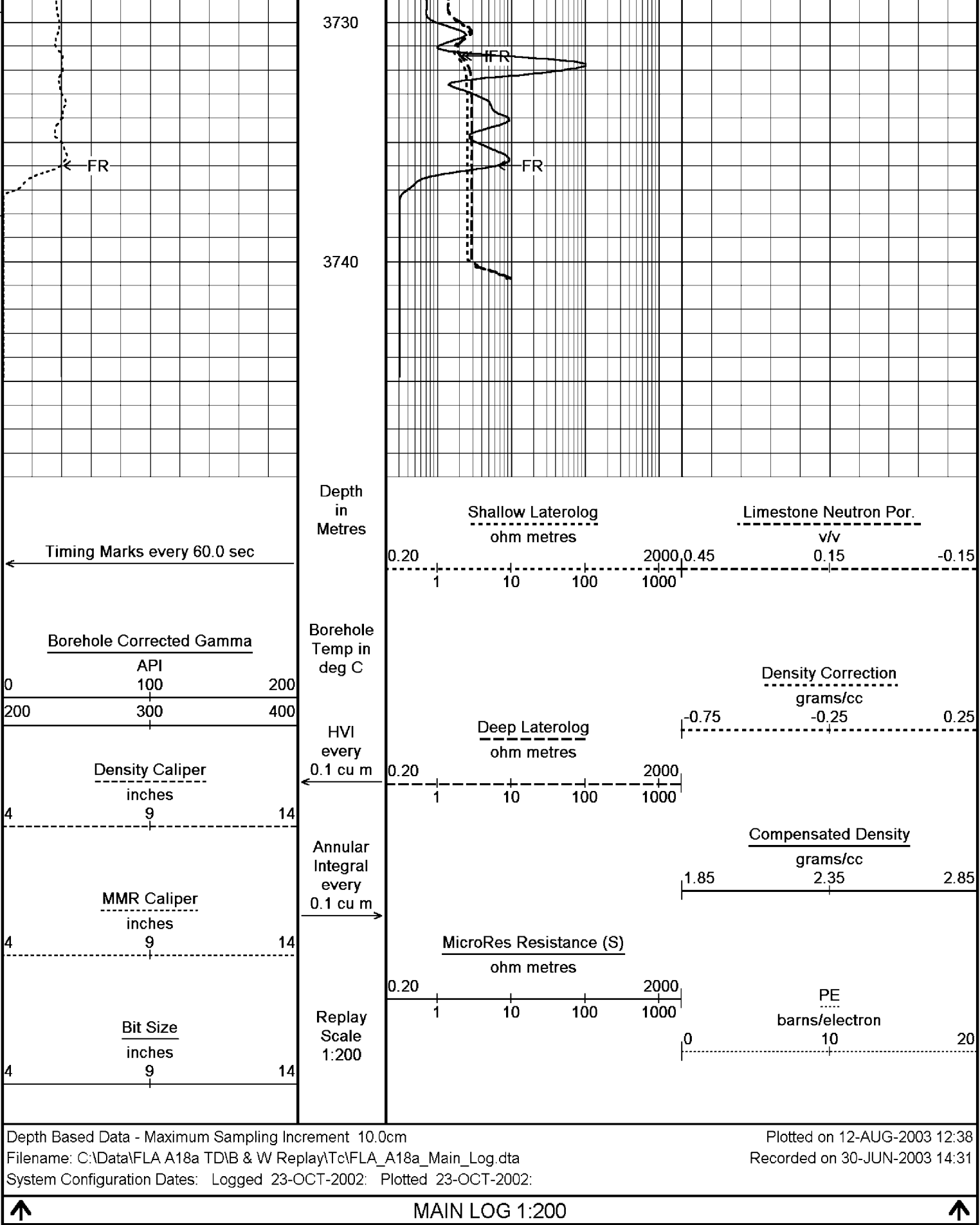


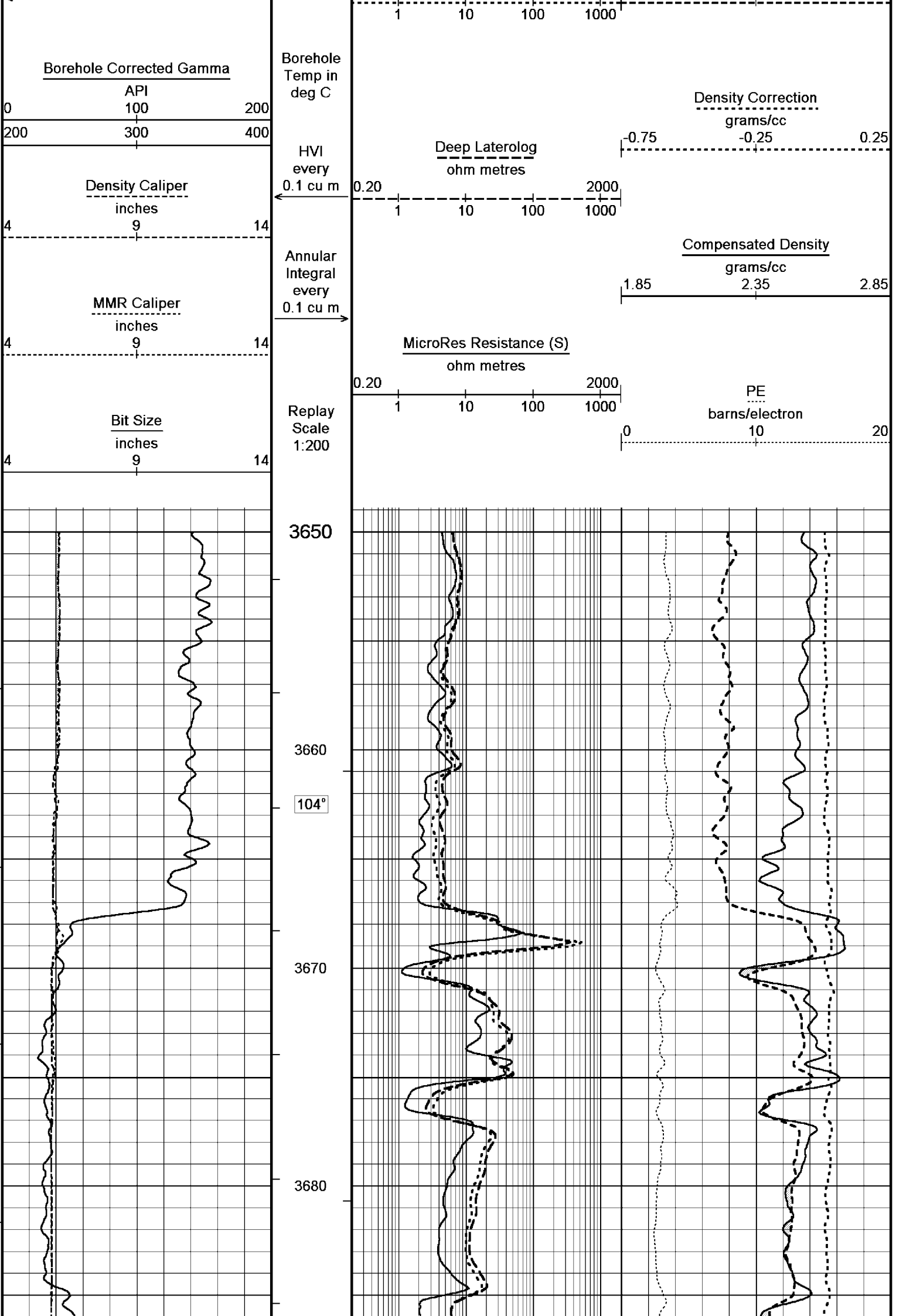


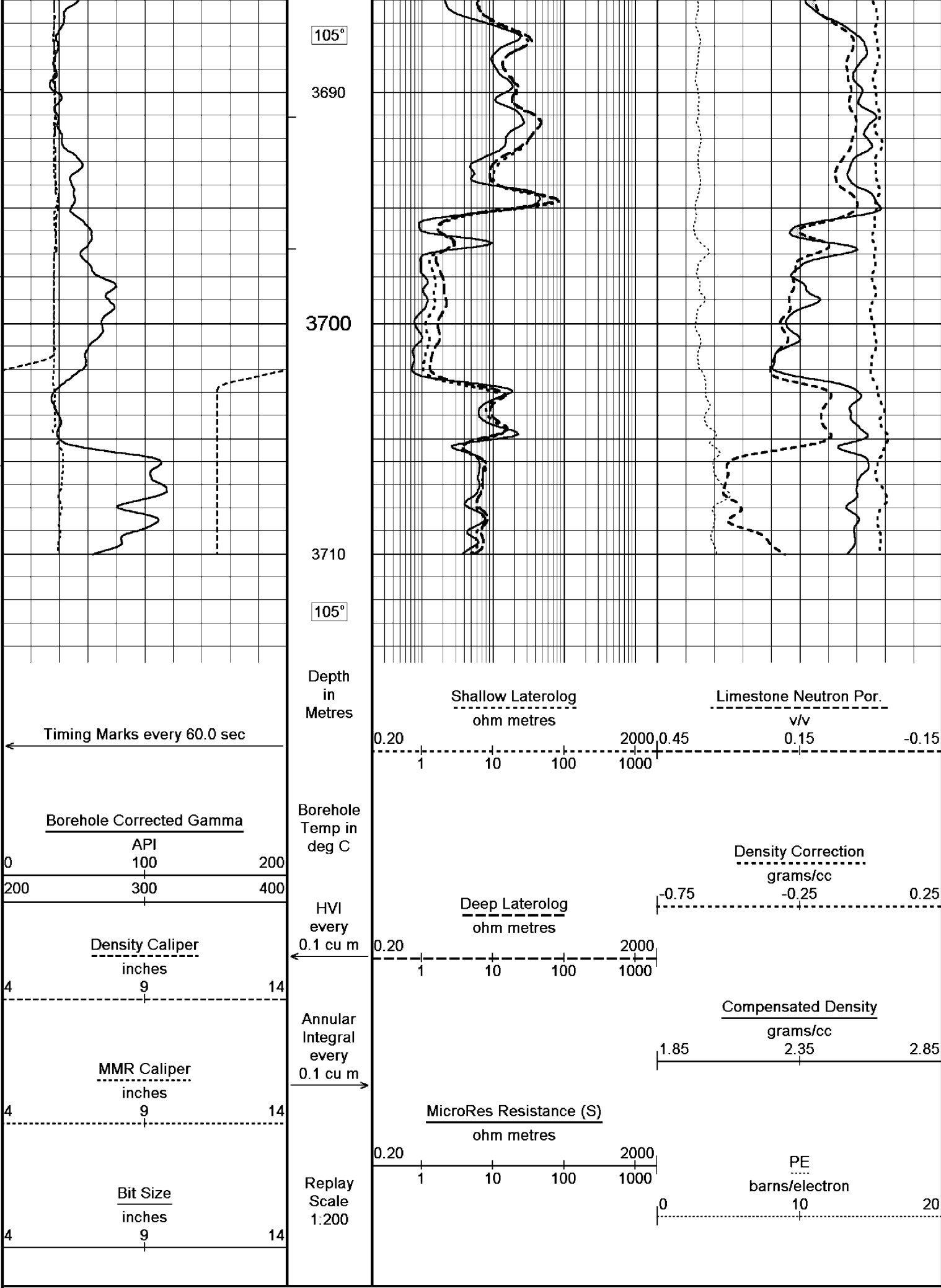
3610  
101°  
3620  
3630  
103°  
3640  
3650  
3660  
104°











# BEFORE SURVEY CALIBRATION

C:\Data\FLA A18a TD\B & W Replay\Tc\FLA\_A18a\_Main\_Log.dta

## General Constants All 000

### General Parameters

Mud Resistivity	0.05	ohm-metres
Mud Resistivity Temperature	100.00	degrees C
Water Level	0.00	metres
Density/Neutron Processing	Wet Hole	

### Hole/Annular Volume and Differential Caliper Parameters

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	5.00	inches
Caliper for Differential Caliper	None	

### Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Deep Laterolog
RWA Constant A	0.61
RWA Constant M	2.15

## High Resolution Temperature Calibration MCG 044

Field Calibration on 28-MAR-2003,17:35

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

## High Resolution Temperature Constants MCG 044

Pre-filter Length	11
-------------------	----

## Gamma Calibration MCG 044

Field Calibration on 26-JUN-2003 23:43

	Measured	Calibrated (API)
Background	13	8
Calibrator (Gross)	1453	917
Calibrator (Net)	1439	909

## Gamma Constants MCG 044

Gamma Calibrator Number	060	
Mud Density	1.19	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

## Neutron Calibration MDN 068

Base Calibration on 30-MAY-2003 09:57

Field Check on 27-JUN-2003 01:03

### Base Calibration

Measured		Calibrated (cps)	
Near	Far	Near	Far
2738	85	3714	110
32.377		33.764	

### Field Calibrator at Base

Calibrated (cps)
1911
2814
0.679

### Field Check

Calibrated (cps)
1878
2717
0.691

## Neutron Constants MDN 068

Neutron Source Id	724	
Neutron Jig Number	52	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.19	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi



Temperature Source	MCG External Temperature	
Temperature	20.00	degrees C
Mud Salinity	56.00	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

## Caliper Calibration MPD 067

Base Calibration on 30-JUN-2003,13:57

Field Calibration on 30-JUN-2003,13:58

### Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14801	4.61
2	24384	6.59
3	34288	8.58
4	44305	10.54
5	55264	12.61
6	N/A	N/A

### Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.99	5.99

## Photo Density Calibration MPD 067

Base Calibration on 6-MAY-2003 15:04

Field Check on 27-JUN-2003 01:09

### Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	57806	19943	53282	19349
Reference 2	27010	2601	25298	2555

### Field Check at Base

953.2 1156.3

### Field Check

944.2 1149.1

### PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	180	826		
Reference 1	18413	57614	0.321	0.318
Reference 2	7218	26872	0.270	0.273

### Field Check at Base

179.8 825.6

### Field Check

177.9 819.9

## Density Constants MPD 067

Density Source Id	226	
Nylon Calibrator Number	517	
Aluminium/Fe Calibrator Number	517	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.19	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc

Matrix Density (gm/cc)	Depth (m)
2.71	
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

## Laterolog Calibration MLE 015

Base Calibration on 6-MAY-2003,20:42

Field Check on 27-JUN-2003,00:20

### Base Calibration

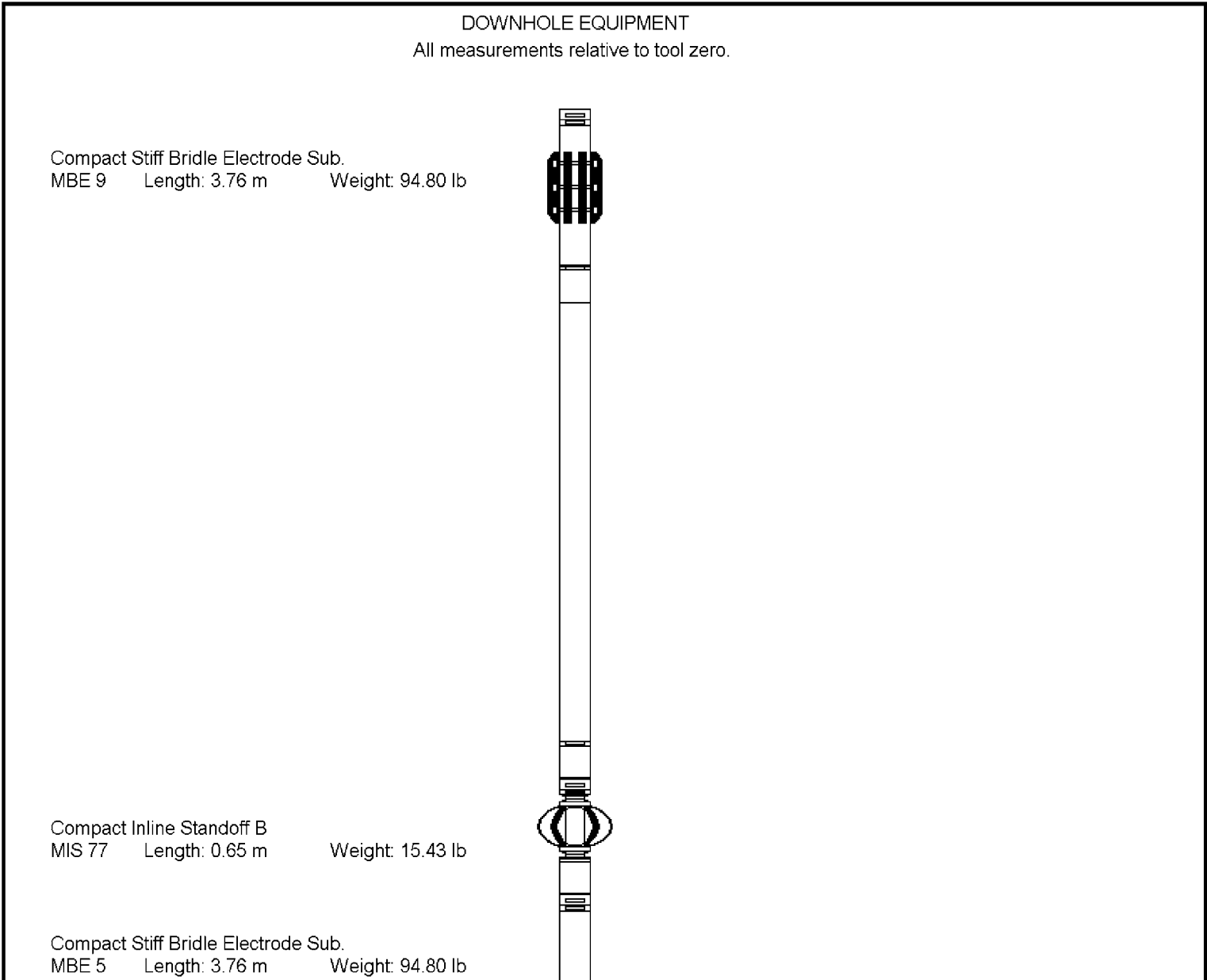
Measured	Calibrated (ohm-m)
----------	--------------------

Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Shallow	0.0	973.0	0.0	1327.3
Deep	0.0	973.0	0.0	852.7
Groningen	0.0	973.4	0.0	852.7
Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Shallow	49.0		49.1	
Deep	31.5		31.5	
Groningen	252.0		252.0	

Laterolog Constants MLE 015				
Squasher Start	40000	ohm-m		
Shallow Laterolog K Factor	1.3273			
Deep Laterolog K Factor	0.8527			
Groningem Laterolog K Factor	0.8527			
Interference Rejection	50 Hz			
SP Connection	SP Bridle Electrode			
Groningen Connection	Groningen Electrode			

Micro Laterolog Calibration MMR 015					Base Calibration on 15-JUN-2003,10:23	
					Field Check on 27-JUN-2003 00:41	
Base Calibration						
	Measured		Calibrated (ohm-m)			
	Ref 1	Ref 2	Ref 1	Ref 2		
	0.0	9883.0	0.0	196.0		
	Base Check (ohm-m)		Field Check (ohm-m)			
	7.9		0.0			

Micro Laterolog Constants MMR 015				
Micro Laterolog K Factor	0.0196			
Standoff Offset	0.5000	inches		



Compact Inline Standoff B  
MIS 31    Length: 0.65 m    Weight: 15.43 lb

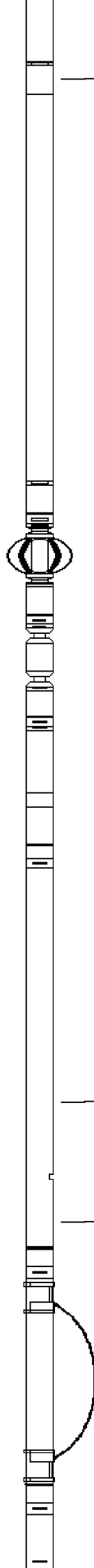
Compact Knuckle Joint  
SKJ 46    Length: 0.66 m    Weight: 24.25 lb

Compact Swivel Head Adaptor  
SHA 27    Length: 0.83 m    Weight: 26.46 lb

Compact Gamma  
MCG 44    Length: 2.65 m    Weight: 63.93 lb

Compact Neutron  
MDN 68    Length: 1.53 m    Weight: 50.71 lb

Compact Density/Caliper  
MPD 67    Length: 2.92 m    Weight: 90.39 lb

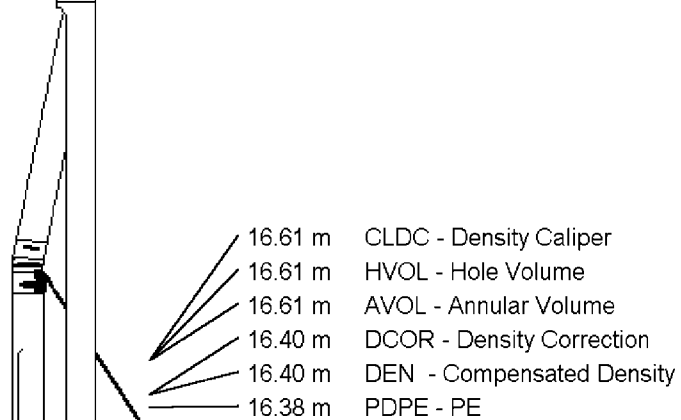


27.65 m    SPDL - Spontaneous Potential

21.16 m    GGCE - Borehole Corrected Gamma

20.28 m    CGXT - MCG External Temperature

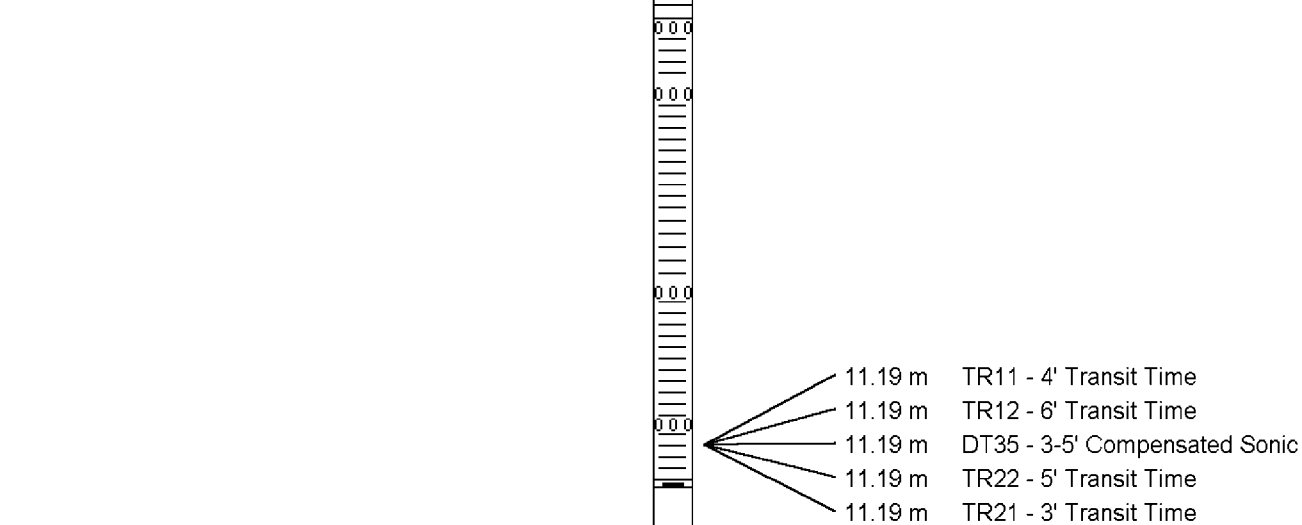
19.30 m    NPRL - Limestone Neutron Por.



Compact Knuckle Joint  
 SKJ 45 Length: 0.66 m Weight: 24.25 lb

Compact Inline Standoff B  
 MIS 53 Length: 0.65 m Weight: 15.43 lb

Compact Sonic  
 MSS 45 Length: 3.82 m Weight: 72.75 lb



Compact Inline Standoff B  
 MIS 75 Length: 0.65 m Weight: 15.43 lb

Compact Upper Guard Sub.  
 MUG 17 Length: 2.74 m Weight: 68.34 lb

Compact Inline Standoff B  
MIS 49    Length: 0.65 m    Weight: 15.43 lb

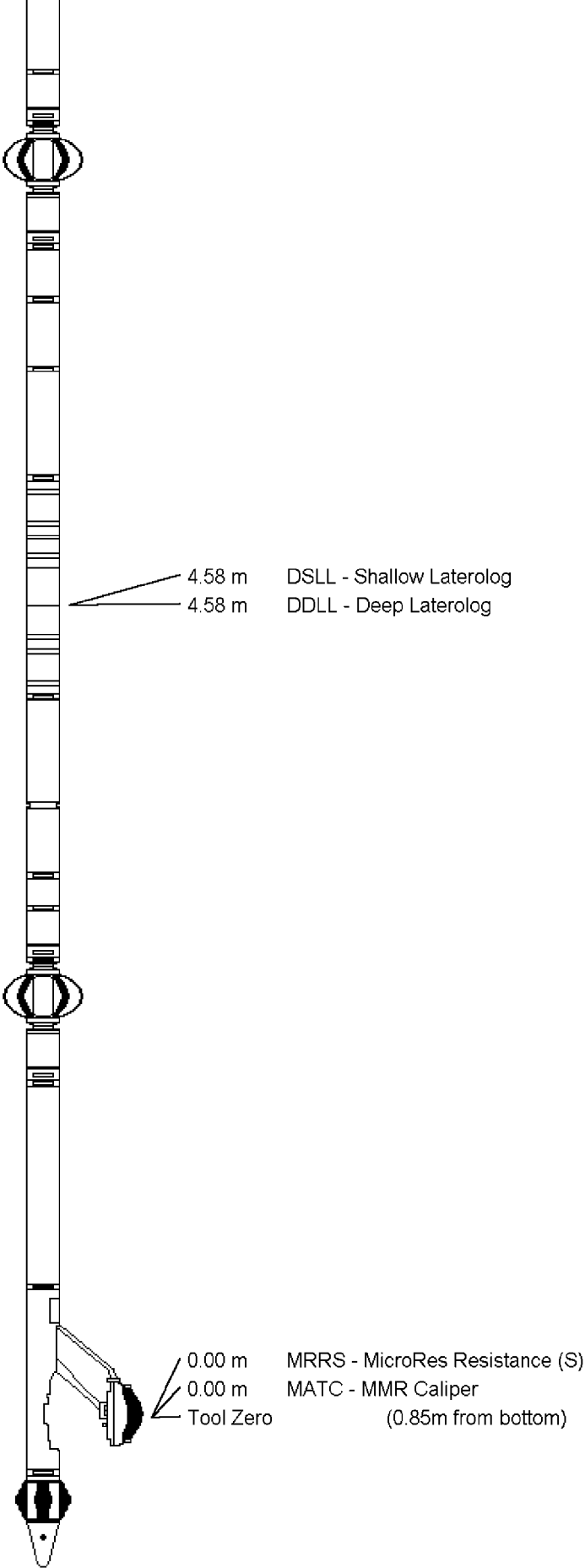
Compact Laterolog Electrode Sub.  
MLE 15    Length: 3.76 m    Weight: 92.59 lb

Compact Inline Standoff B  
MIS 76    Length: 0.65 m    Weight: 15.43 lb

Compact Micro-Resistivity  
MMR 15    Length: 2.62 m    Weight: 81.57 lb

Pressure Bung + Hole Finder  
HFS 3    Length: 0.28 m    Weight: 6.61 lb

Total Length: 33.90 m    Total Weight: 884.05 lb



COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	FLOUNDER A-18a
FIELD	GIPPSLAND BASIN
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	3736.00	metres
-------------------------	--------	---------------	---------	--------

Elevation Drill Floor	33.85	metres	Depth Driller	3737.00	metres
Elevation Ground Level	-93.00	metres	Depth Logger	3736.85	metres



DUAL LATEROLOG - GR  
DENSITY - NEUTRON  
1:200 MD