

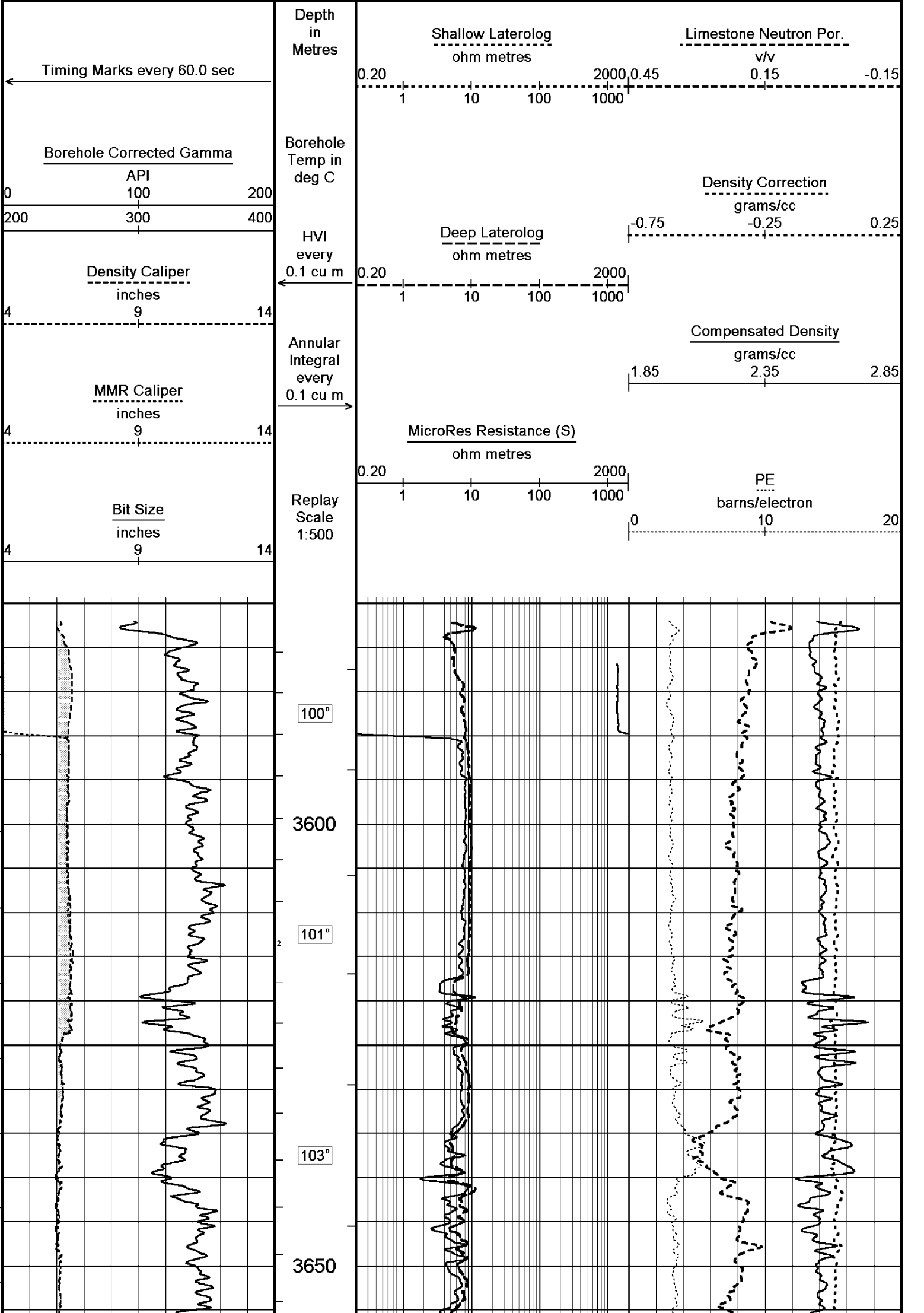
Reeves

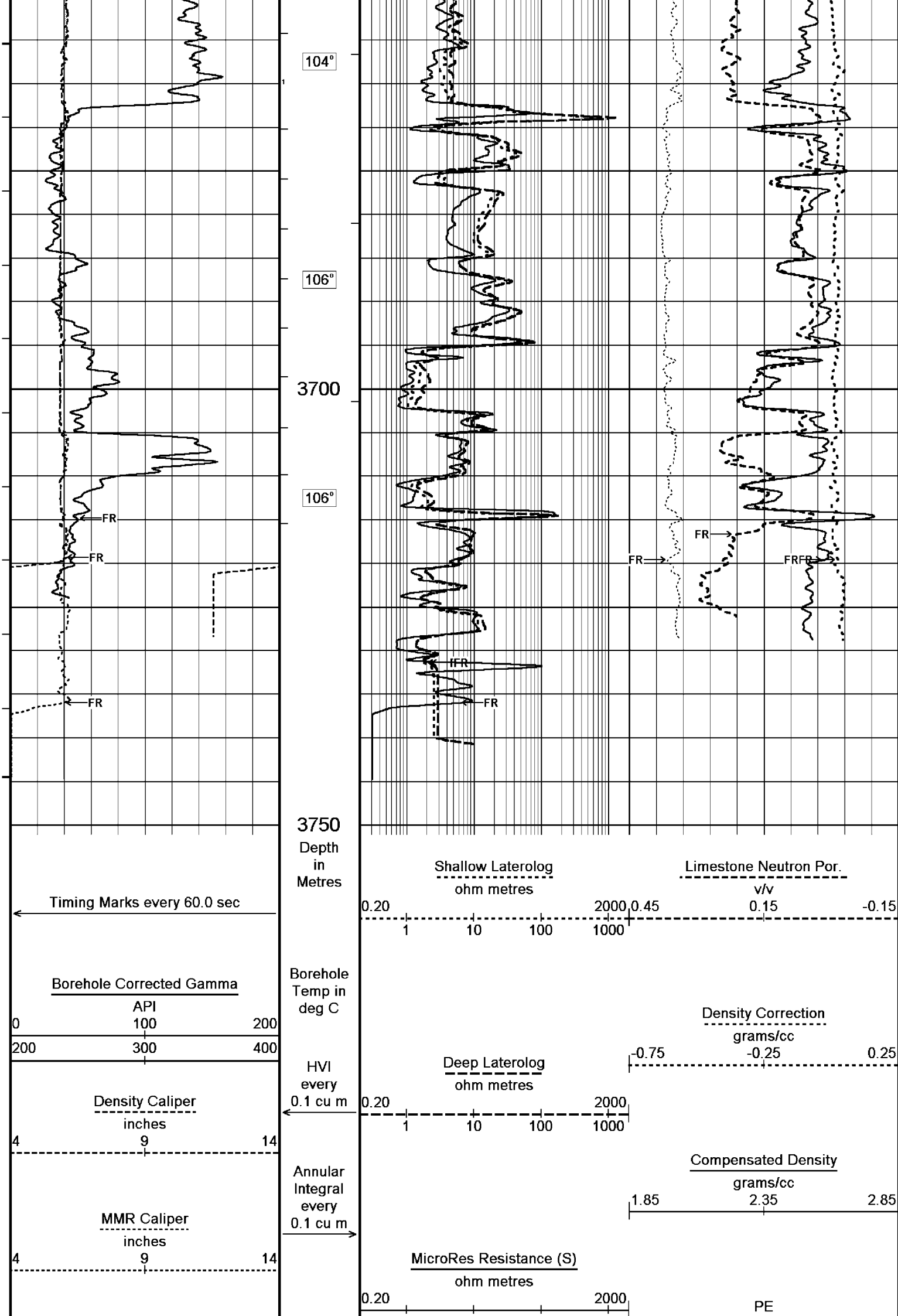
DUAL LATEROLOG - GR DENSITY - NEUTRON 1:500 MD

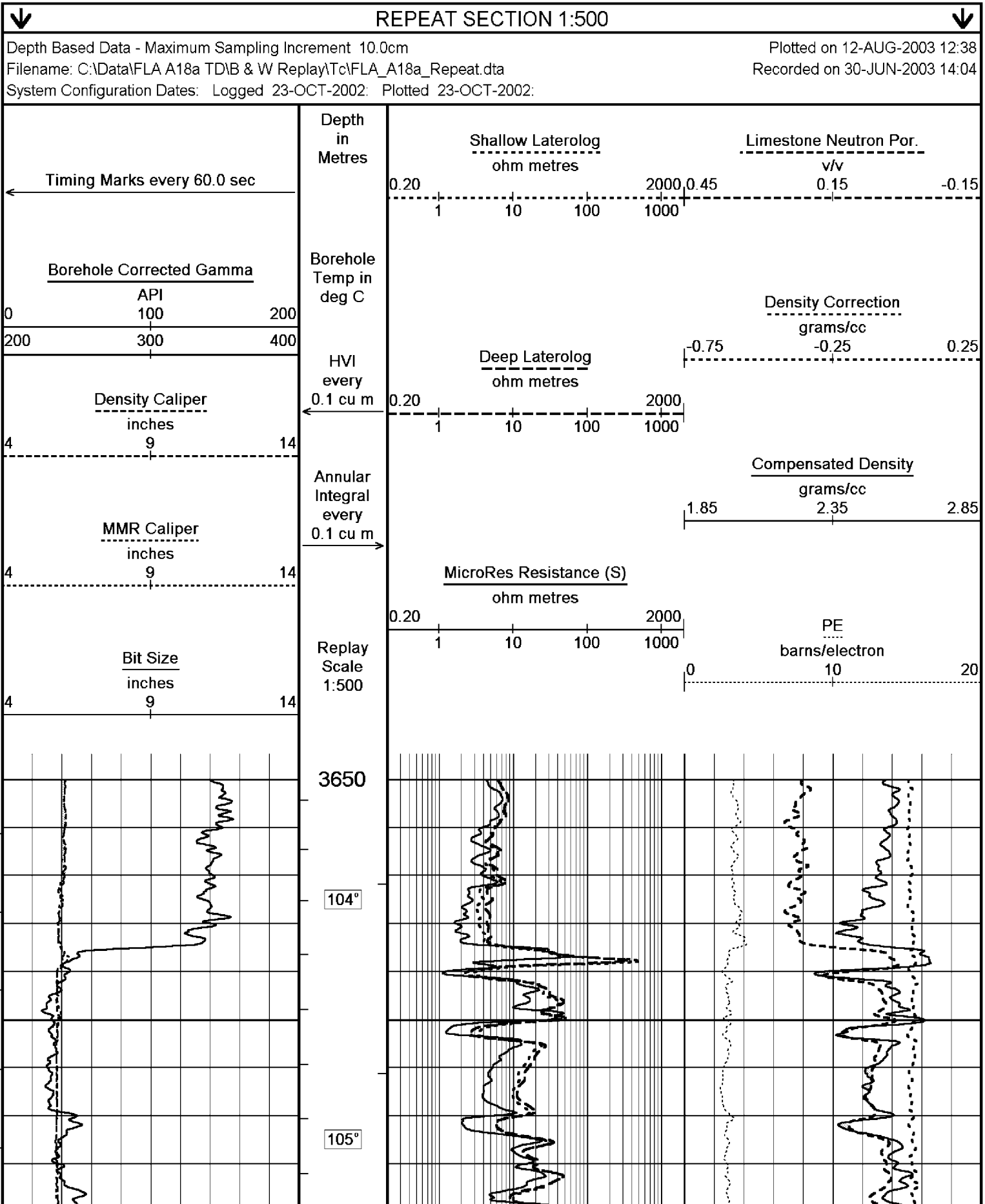
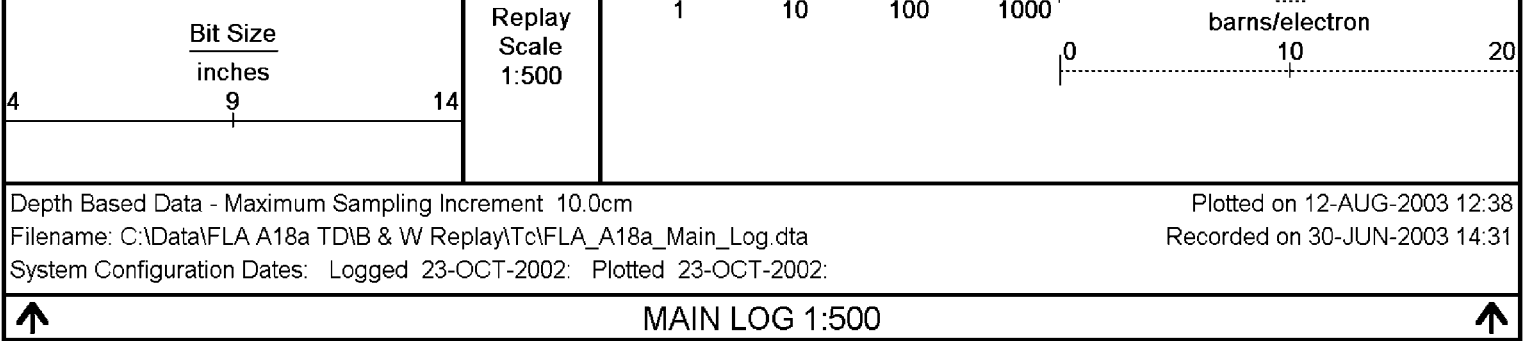
COMPANY	ESSO AUSTRALIA PTY. LTD.		
WELL	FLOUNDER A-18a		
FIELD	GIPPSLAND BASIN		
PROVINCE/COUNTY	BASS STRAIT		
COUNTRY/STATE	AUSTRALIA		
LOCATION	5758711.43 m N, 625855.81 m E 38°18'39.155" S, 148°26'22.358" E		
LSD	SEC	TWP	RGE
API Number	Other Services MICRO LATEROLOG COMPENSATED SONIC		
Permit Number			
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/PA/GLY		
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		G. McManus, S. Mooney
Witnessed By	E. Espiritu		
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.







Shallow Laterolog
ohm metres
0.201101002000
1000

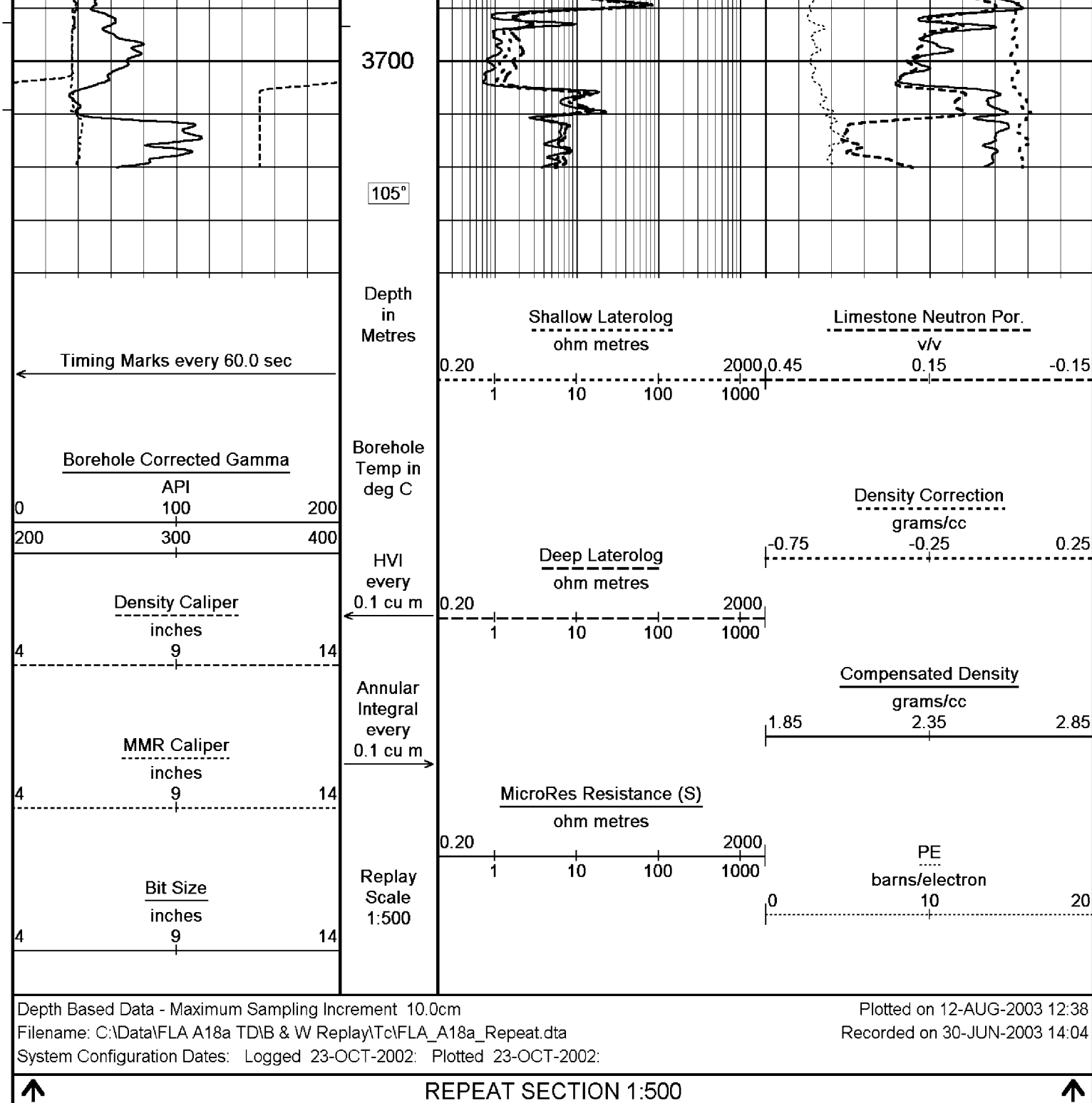
Limestone Neutron Por.
v/v
0.450.15-0.15

Density Correction
grams/cc
-0.75-0.250.25

Compensated Density
grams/cc
1.852.352.85

MicroRes Resistance (S)
ohm metres
0.201101002000
1000

PE
barns/electron
01020



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	
Ratio	32.377		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			1911	2814	
Ratio			0.679		
Field Check					
			Calibrated (cps)		
			1878	2717	
Ratio			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		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		Measured		Calibrated	
	WS	WH	Ratio	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		

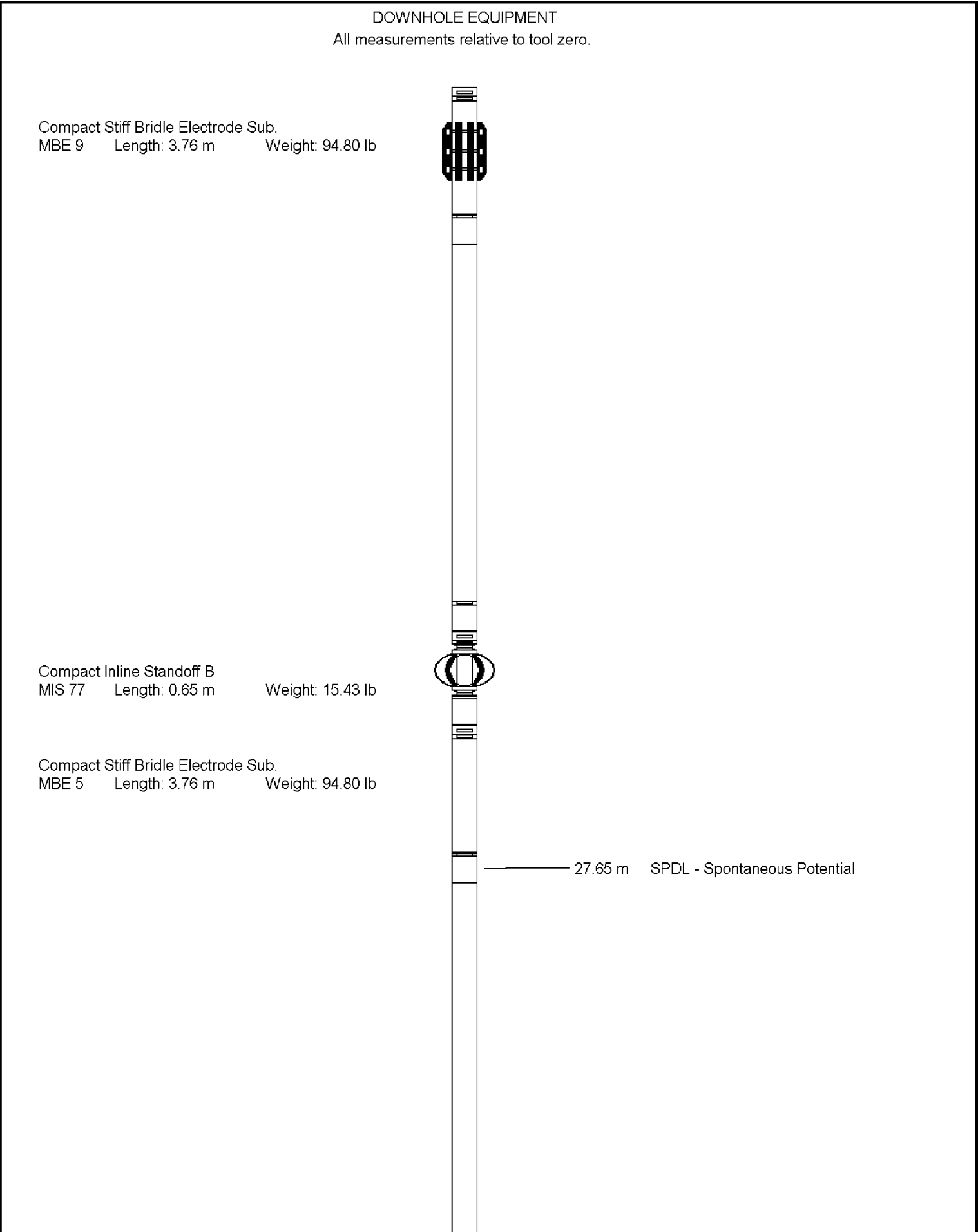
Density Constants MPD 067				
Density Source Id	226			
Nylon Calibrator Number	517			
Aluminium/Fe Calibrator Number	517			
Density Shoe Profile	4 inch			
Caliper Source for Processing	Density Caliper			
PE Correction to Density	Not Applied			
Mud Density	1.19	gm/cc		
Mud Density Z/A Correction	1.11			
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	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

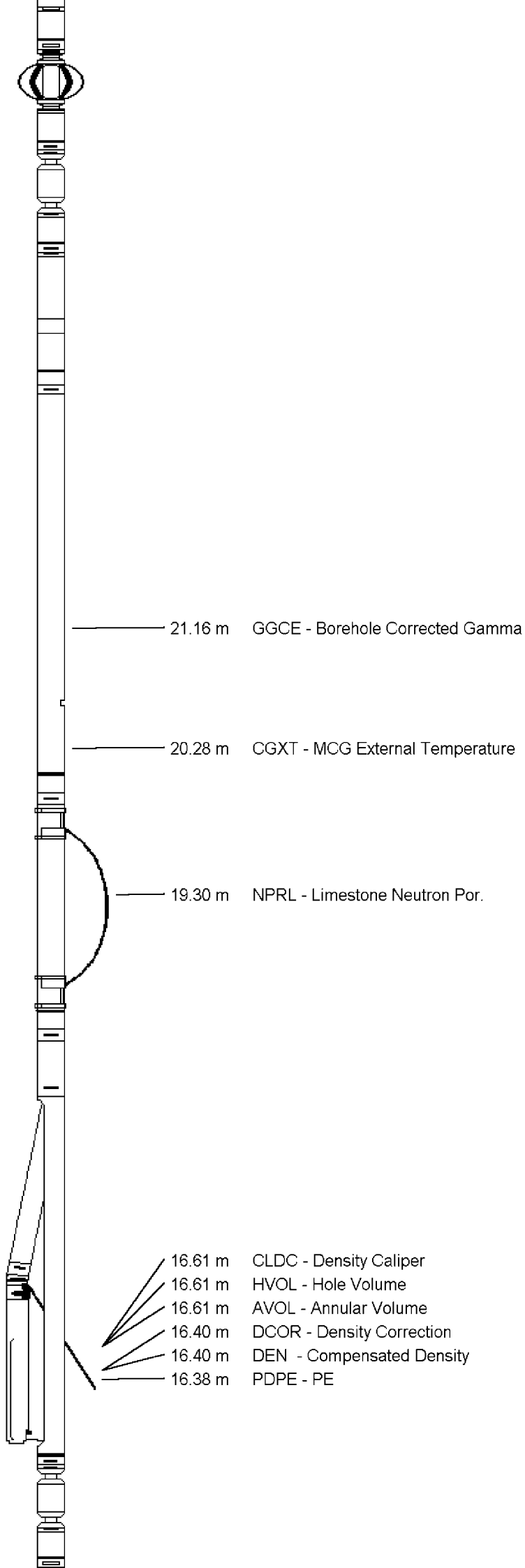
Compact Swivel Head Adaptor
SHA 27 Length: 0.83 m Weight: 26.46 lb

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

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



0 0 0

0 0 0

0 0 0

0 0 0

11.19 m TR11 - 4' Transit Time
11.19 m TR12 - 6' Transit Time
11.19 m DT35 - 3-5' Compensated Sonic
11.19 m TR22 - 5' Transit Time
11.19 m TR21 - 3' Transit Time

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



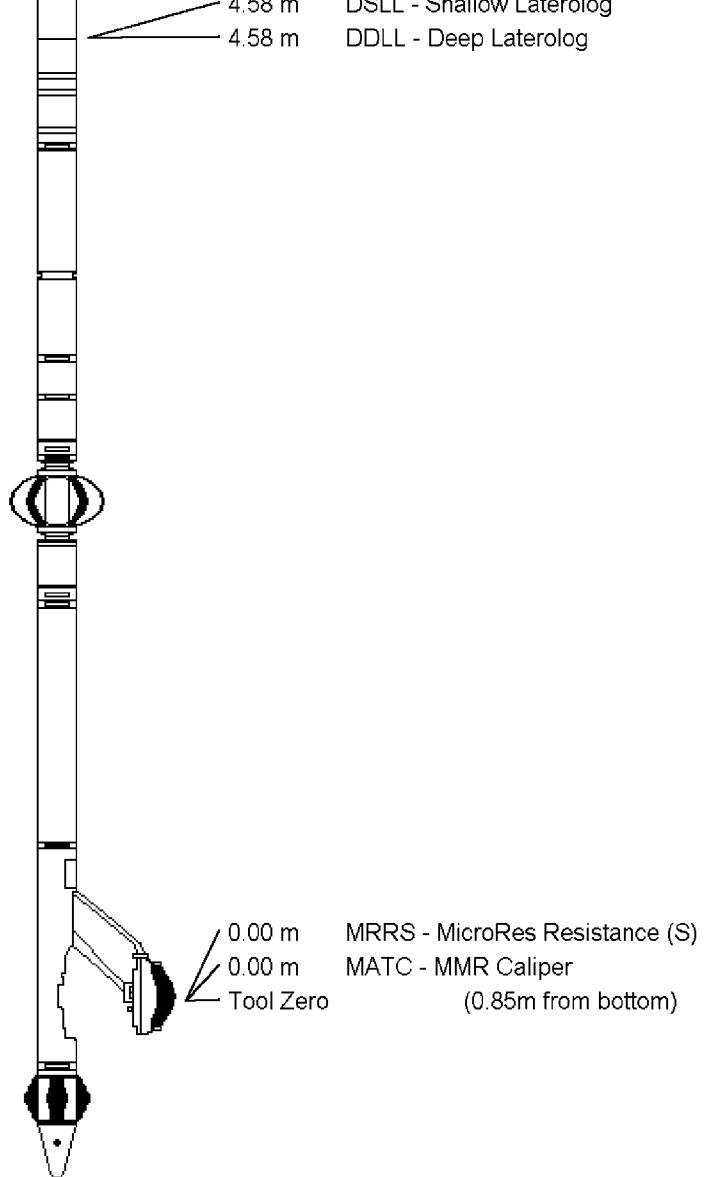
Compact Inline Standoff B
MIS 76 Length: 0.65 m Weight: 15.43 lb

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
1:500 MD