

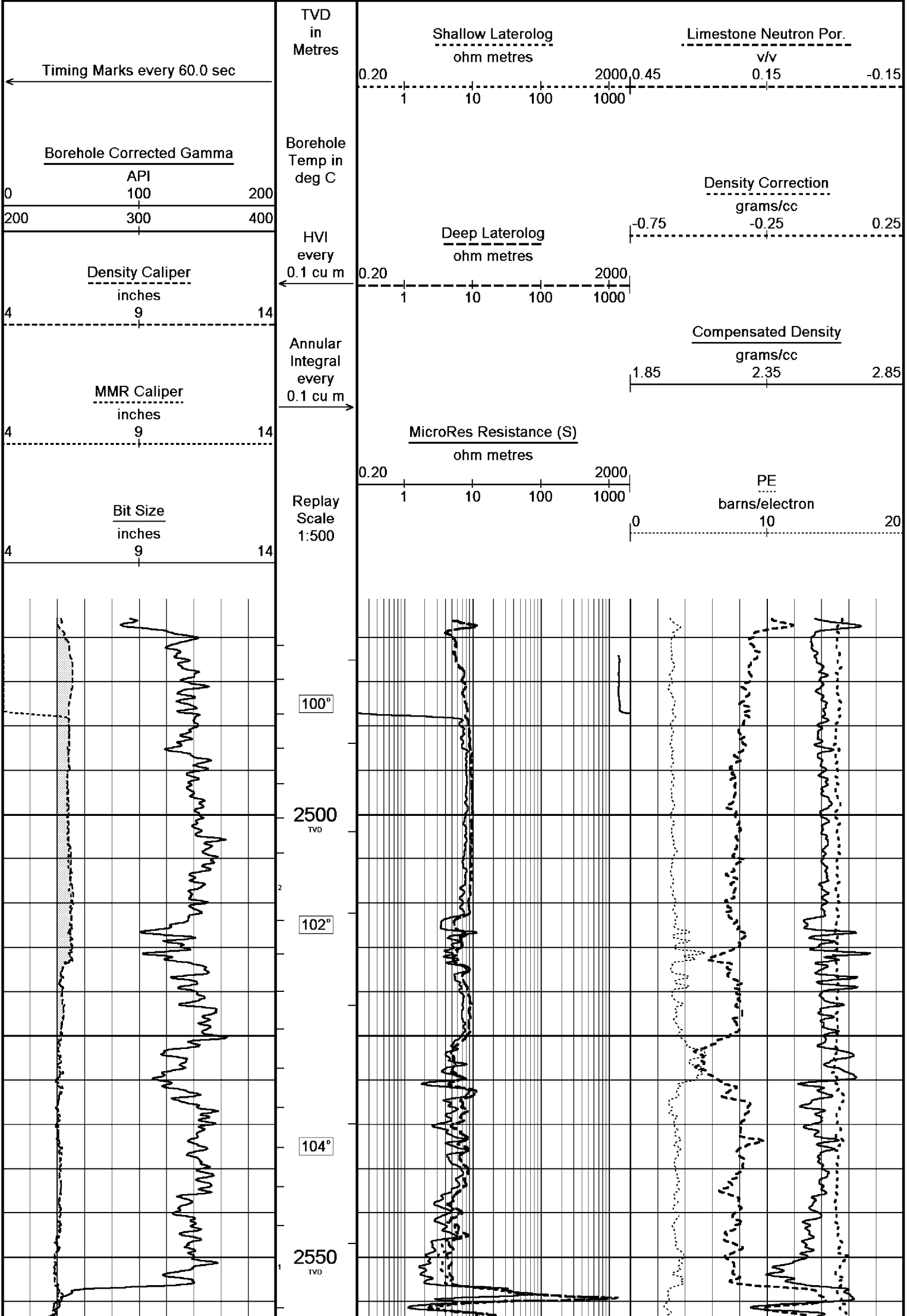
# Reeves

## DUAL LATEROLOG - GR DENSITY - NEUTRON 1:500 TVD

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		
Run Number	2		
Depth Driller	2612.90 metres		
Depth Logger	2612.76 metres		
First Reading	2612.03 metres		
Last Reading	2427.10 metres		
Casing Driller	2264.06 metres		
Casing Logger	2263.63 metres		
Bit Size	6.00 inches		
Hole Fluid Type	KCl/PHPA/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 ohm-m		
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		
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.				

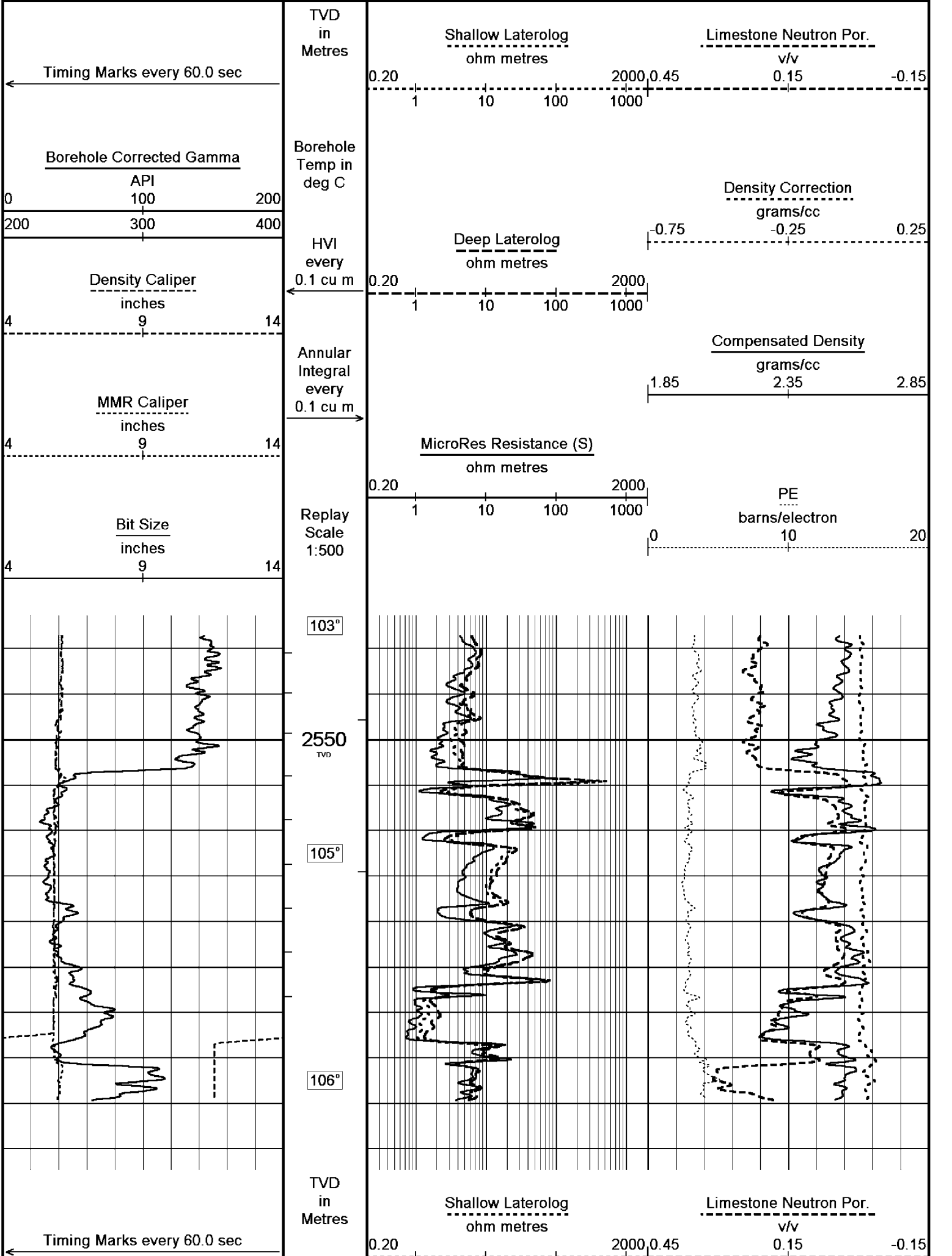
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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.

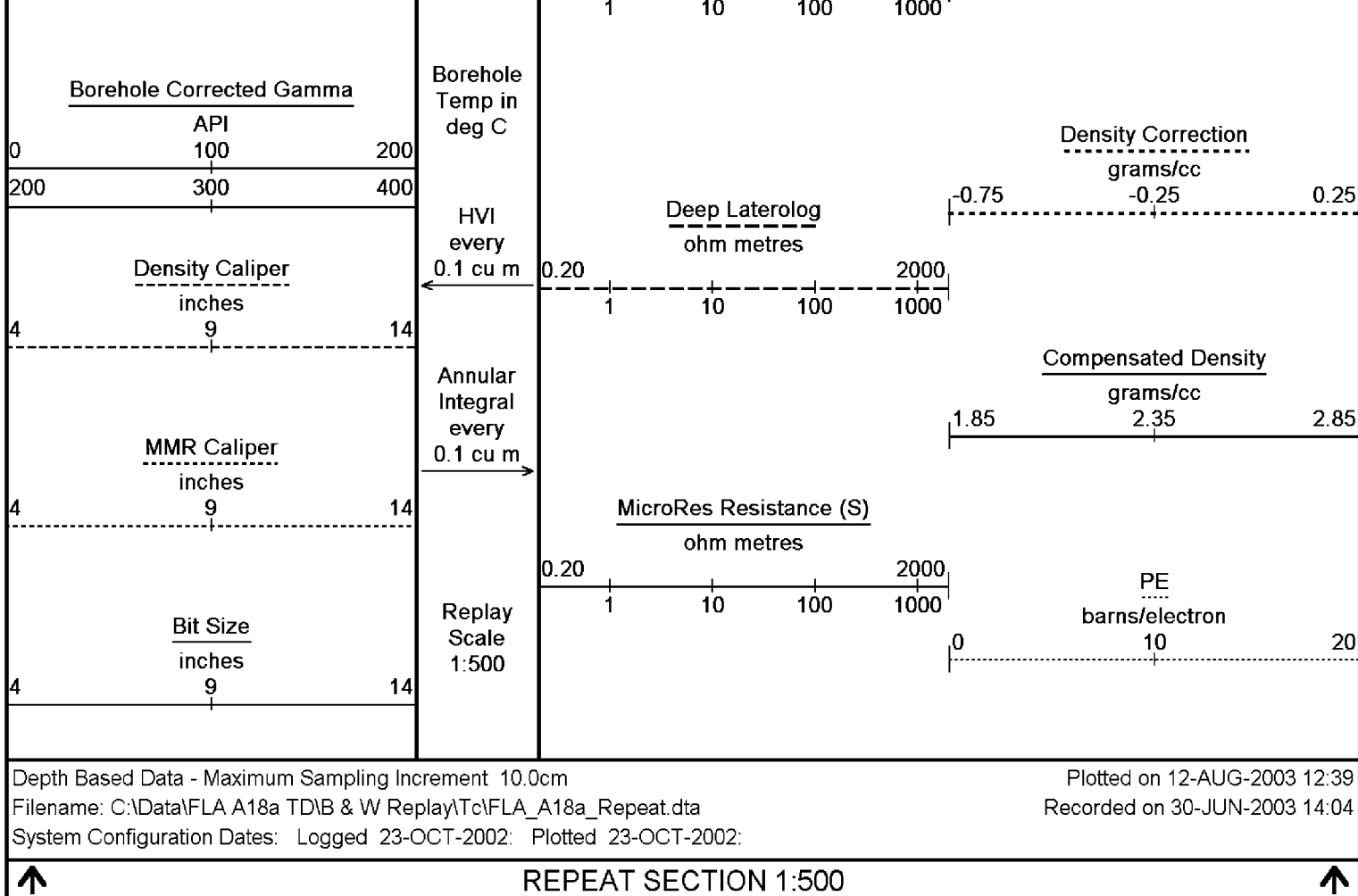




Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: C:\Data\FLA A18a TD\B & W Replay\Tc\FLA\_A18a\_Repeat.dta  
System Configuration Dates: Logged 23-OCT-2002: Plotted 23-OCT-2002:

Plotted on 12-AUG-2003 12:39  
Recorded on 30-JUN-2003 14:04





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					
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		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

Channel	Measured		Calibrated (ohm-m)	
	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	
Groningen 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)		7.9	Field Check (ohm-m)	0.0

### Micro Laterolog Constants MMR 015

Micro Laterolog K Factor	0.0196	
Standoff Offset	0.5000	inches

DOWNHOLE EQUIPMENT  
All measurements relative to tool zero.



MBE 9      Length: 3.76 m      Weight: 94.80 lb

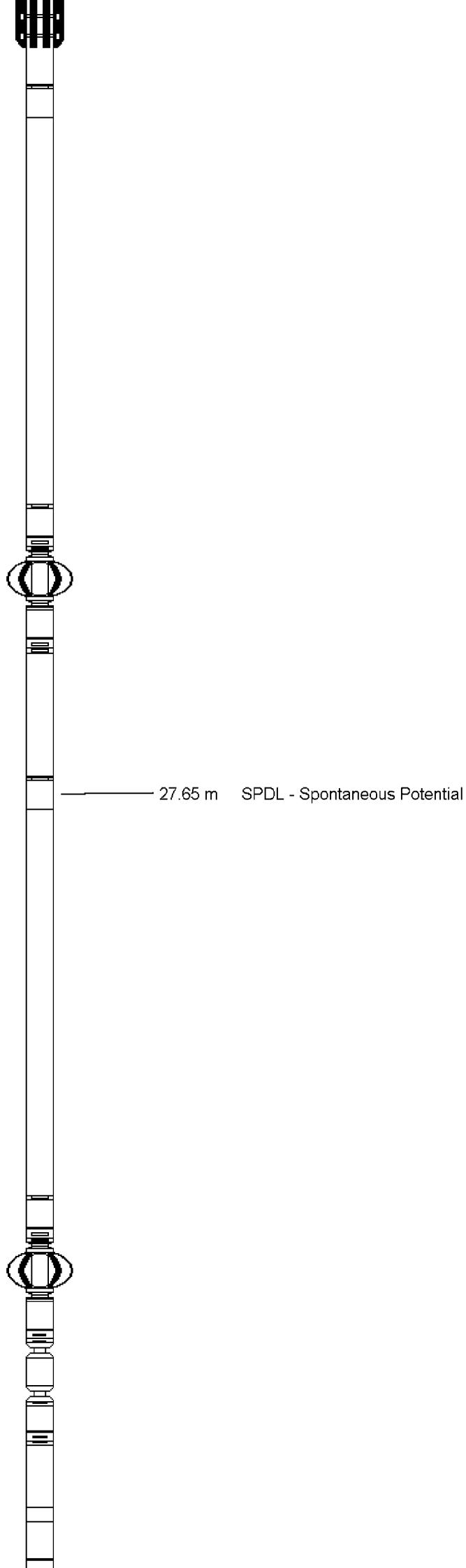
Compact Inline Standoff B  
MIS 77      Length: 0.65 m      Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.  
MBE 5      Length: 3.76 m      Weight: 94.80 lb

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

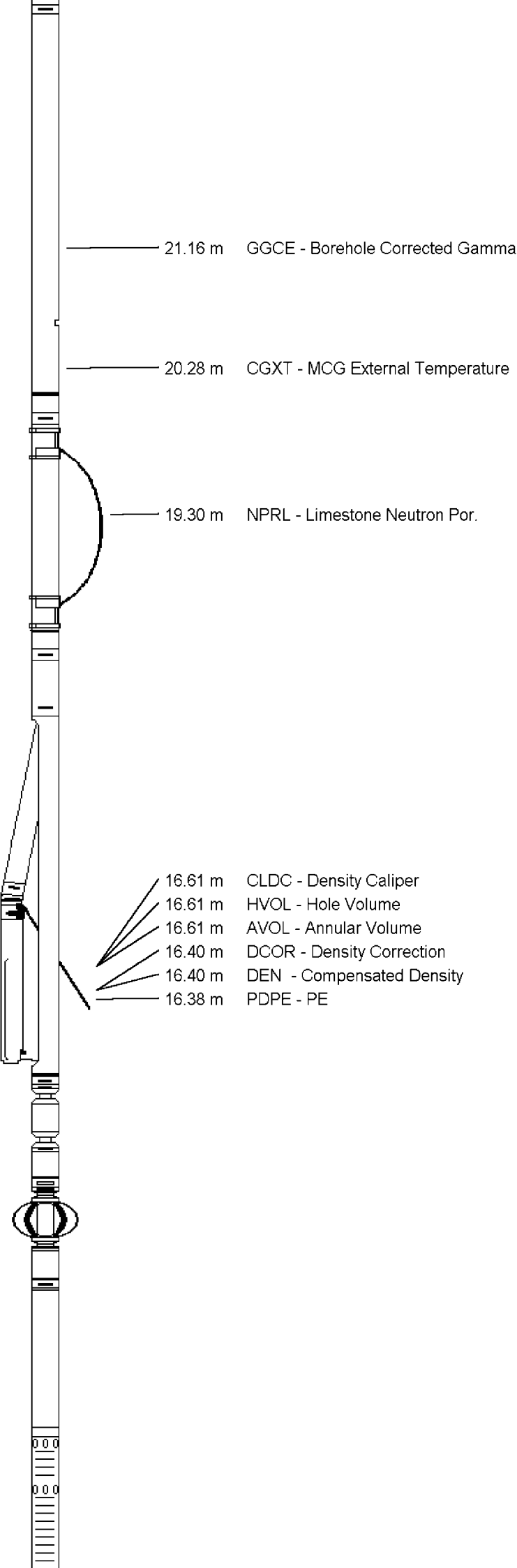
Compact Neutron  
MDN 68    Length: 1.53 m    Weight: 50.71 lb

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



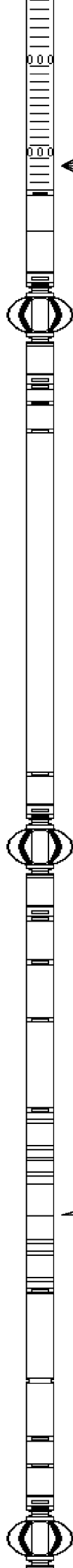
Compact Inline Standoff B  
MIS 75    Length: 0.65 m    Weight: 15.43 lb

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

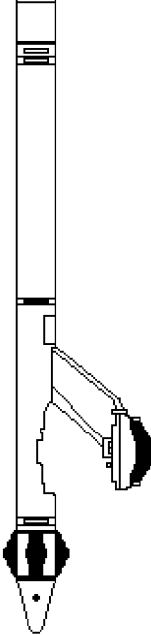
Compact Inline Standoff B  
MIS 76    Length: 0.65 m    Weight: 15.43 lb



- 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

- 4.58 m    DSLL - Shallow Laterolog
- 4.58 m    DDLL - Deep Laterolog

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



0.00 m    MRRS - MicroRes Resistance (S)  
0.00 m    MATC - MMR Caliper  
Tool Zero    (0.85m from bottom)

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	2612.03	metres
Elevation Drill Floor      33.85	metres	Depth Driller	2612.90	metres
Elevation Ground Level    -93.00	metres	Depth Logger	2612.76	metres



DUAL LATEROLOG - GR  
DENSITY - NEUTRON  
1:500 TVD