

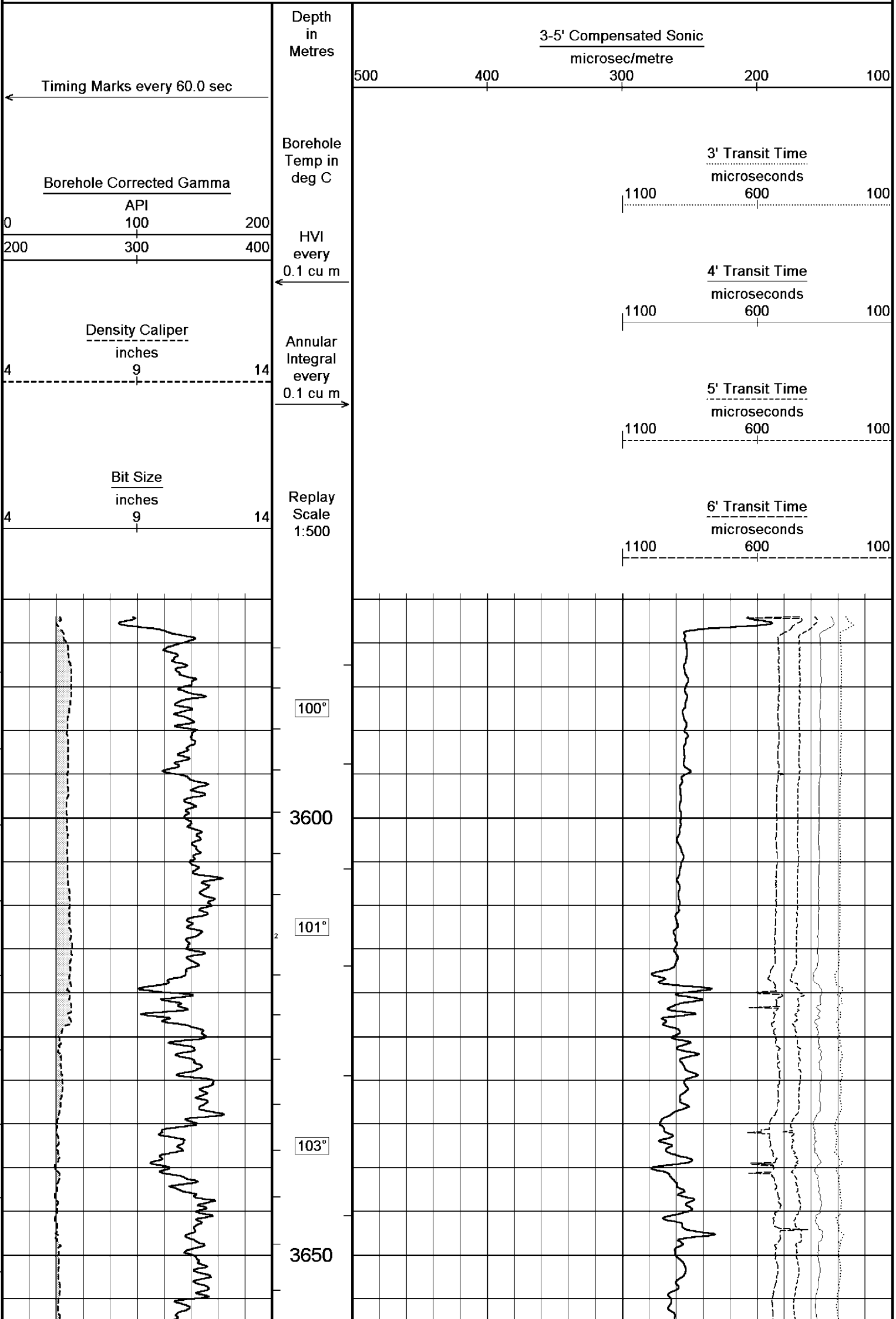
Reeves

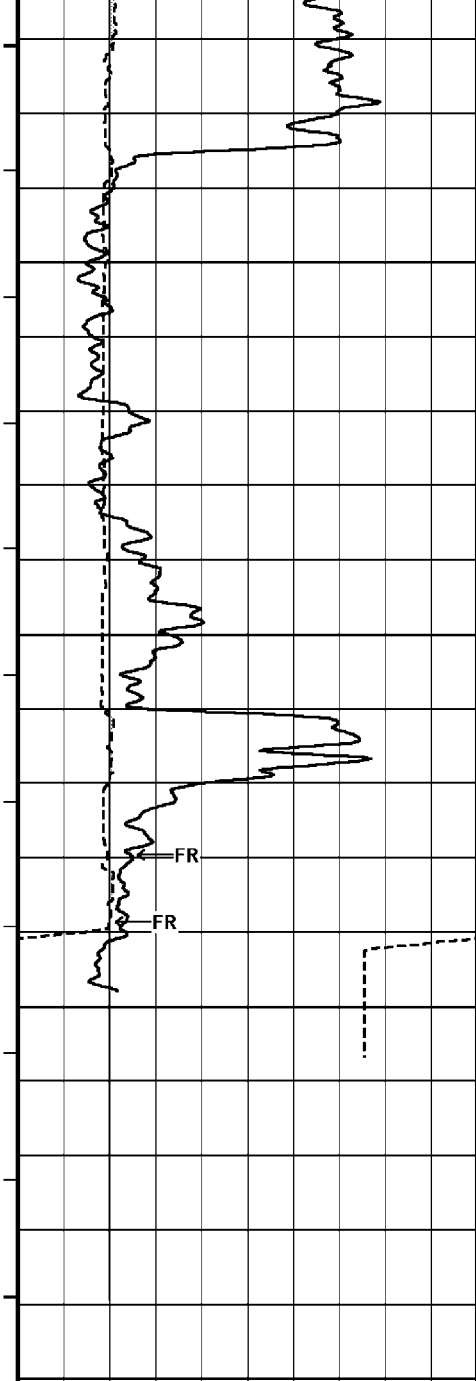
COMPENSATED SONIC 1:500 MD

| | | | | |
|---------------------------------------------------------|--------------------------------------------------------------------|-----|-----|----------------------------------------------------------------------|
| 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 | Other Services DUAL LATEROLOG PHOTO DENSITY MICRO LATEROLOG |
| API Number | COMPENSATED NEUTRON | | | |
| 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 | 3737.00 metres | | | |
| Depth Logger | 3736.85 metres | | | |
| First Reading | 3736.00 metres | | | |
| Last Reading | 3570.50 metres | | | |
| Casing Driller | 3329.50 metres | | | |
| Casing Logger | 3329.00 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.





104°

106°

3700

106°

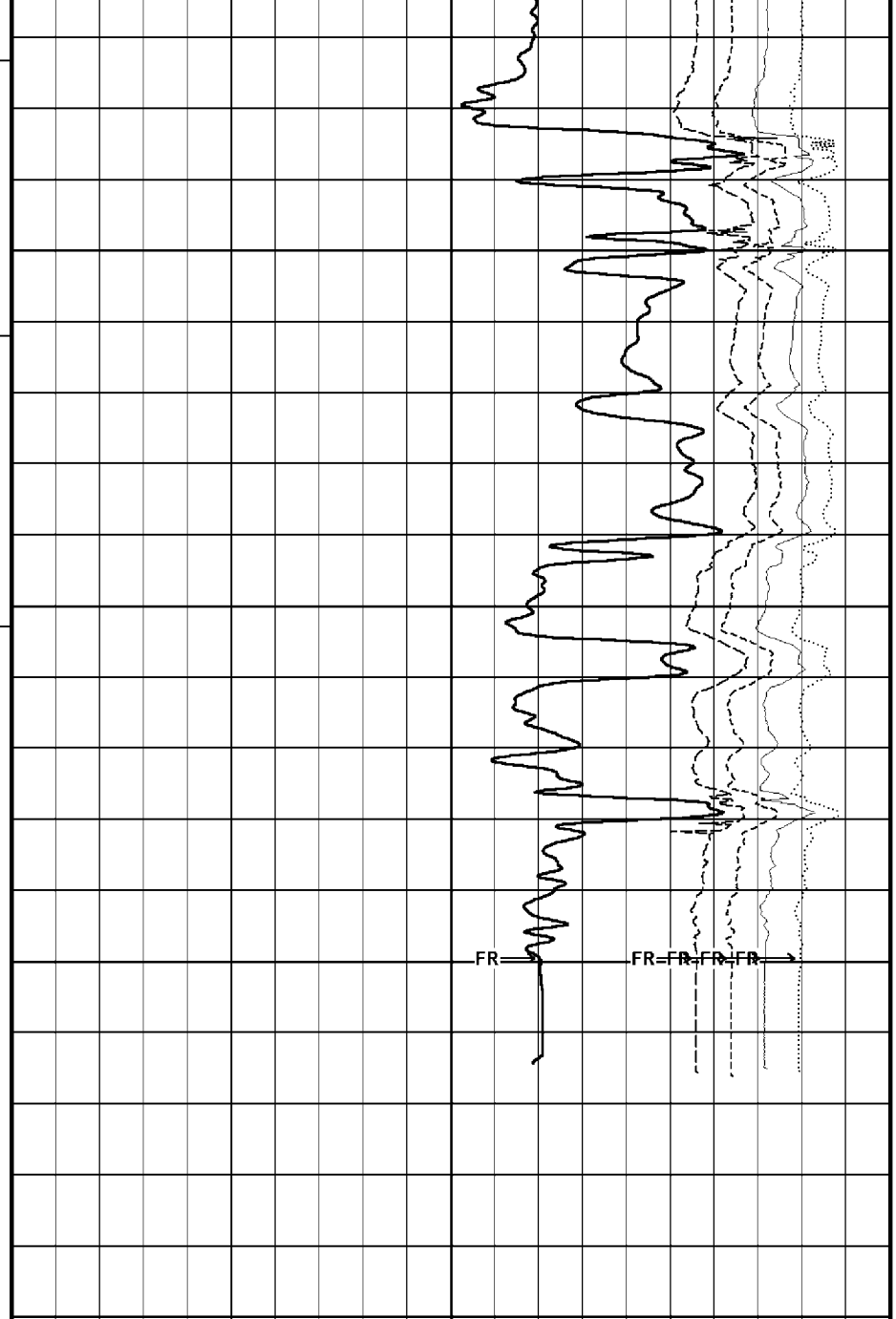
3750
Depth
in
Metres

Borehole
Temp in
deg C

HVI
every
0.1 cu m

Annular
Integral
every
0.1 cu m

Replay

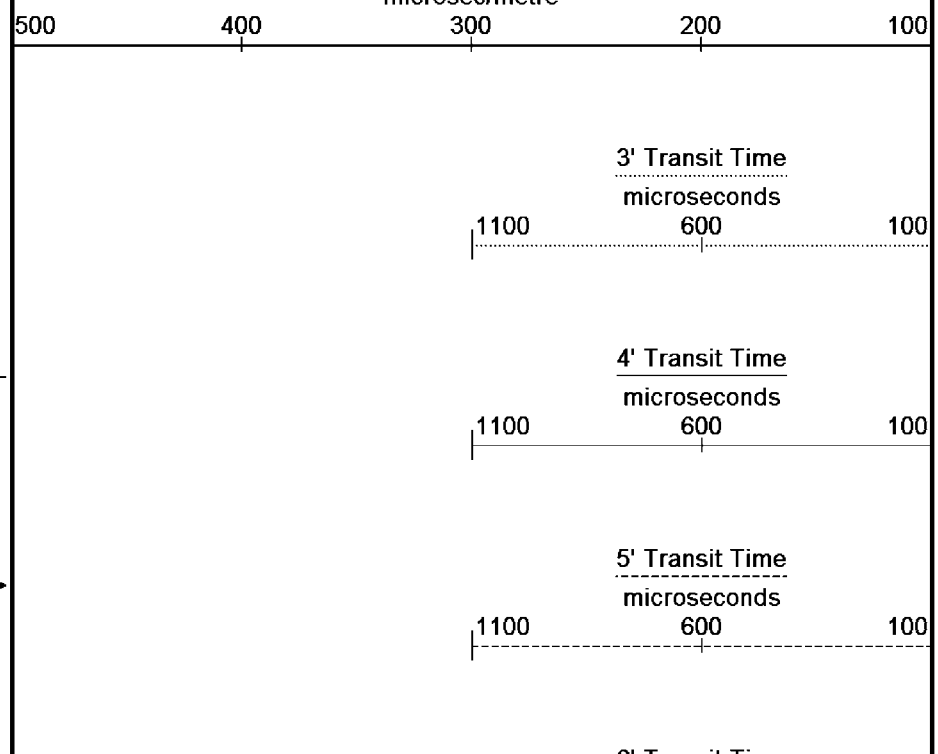
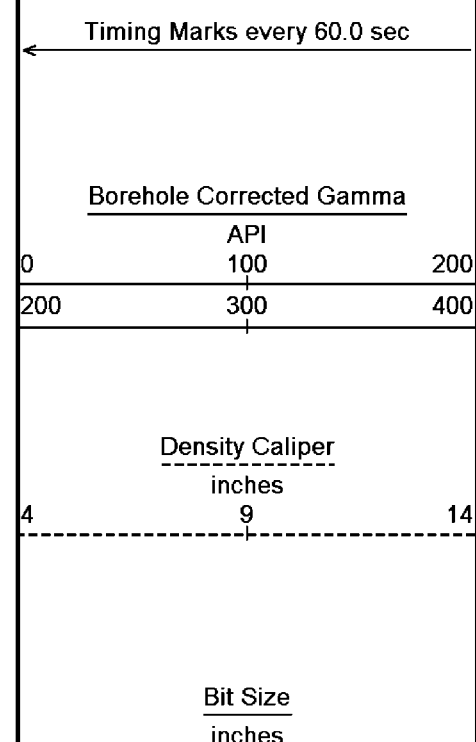


3-5' Compensated Sonic
microsec/metre

3' Transit Time
microseconds

4' Transit Time
microseconds

5' Transit Time
microseconds



4914

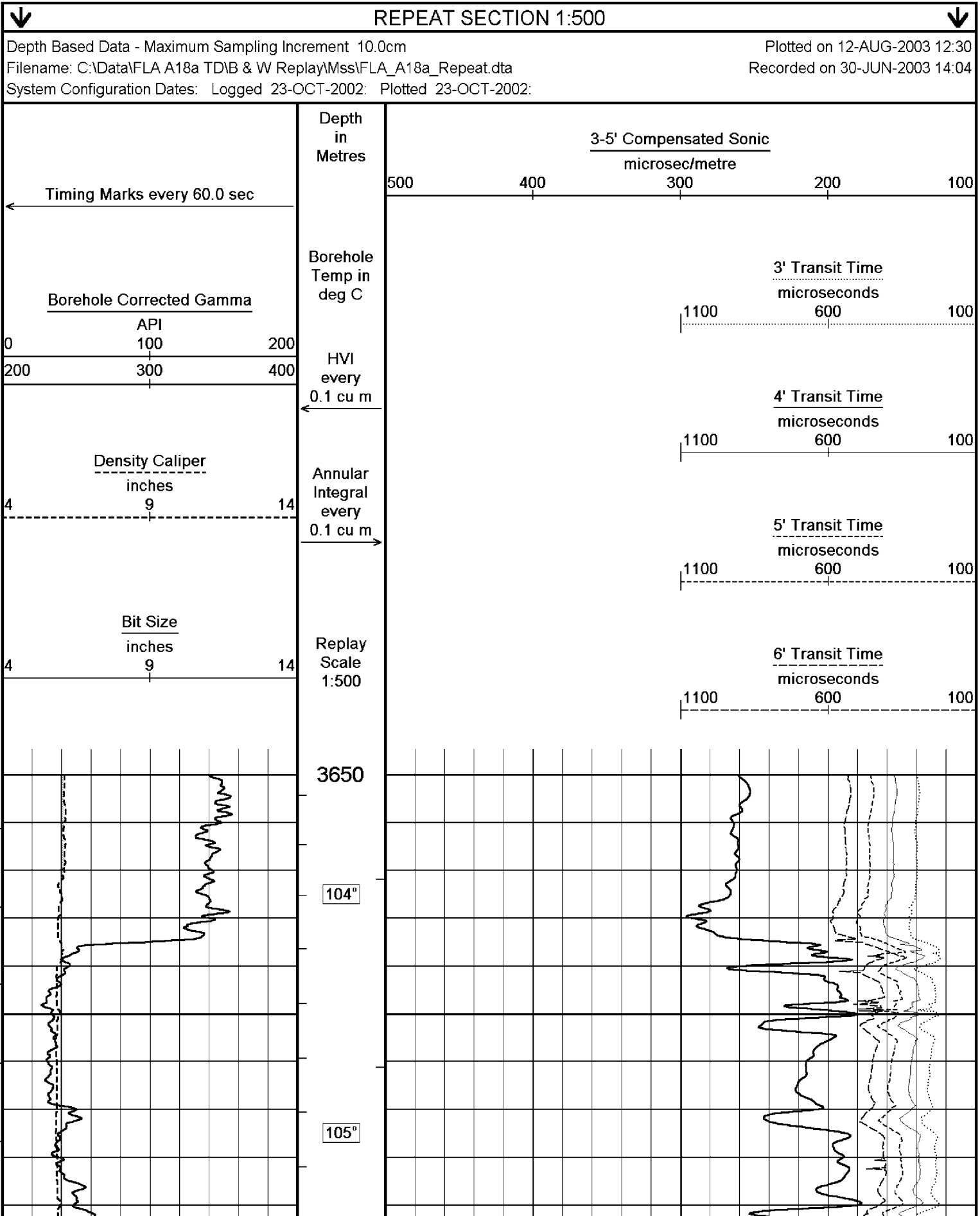
Scale
1:500

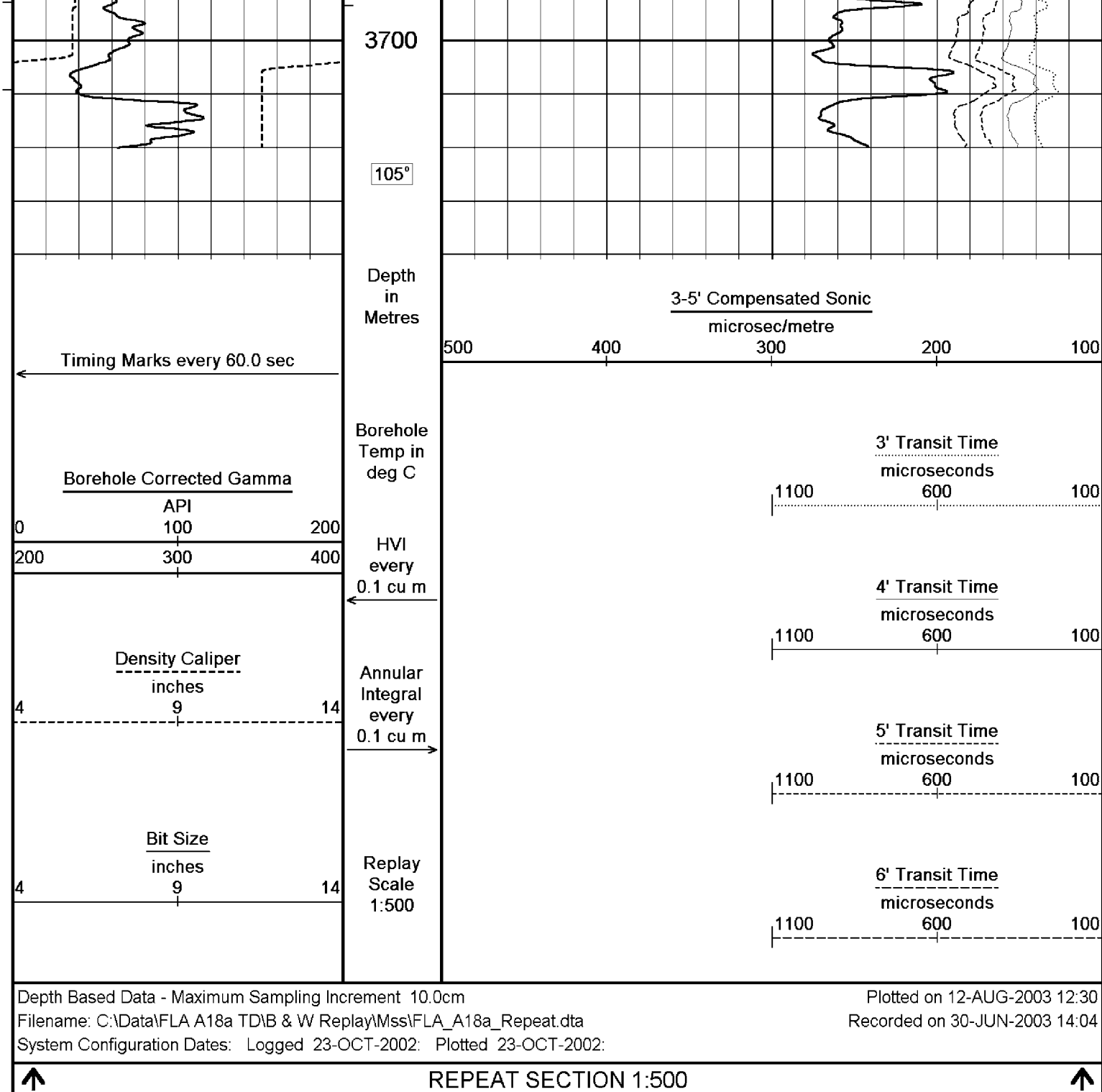
6' Transit Time
microseconds
1100600100

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Data\FLA A18a TD\B & W Replay\Mss\FLA_A18a_Main_Log.dta
System Configuration Dates: Logged 23-OCT-2002: Plotted 23-OCT-2002:

Plotted on 12-AUG-2003 12:30
Recorded on 30-JUN-2003 14:31

↑MAIN LOG 1:500↑





BEFORE SURVEY CALIBRATION

C:\Data\FLA A18a TD\B & W Replay\Mss\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 |

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 |

Sonic Constants MSS 045

| | | |
|---------------------------|------------------------|-------------|
| Maximum Boundary Contrast | 328.08 | micro-sec/m |
| Fluid Transit Time | 620.08 | micro-sec/m |
| Limestone Transit Time | 155.84 | micro-sec/m |
| Sandstone Transit Time | 182.09 | micro-sec/m |
| Dolomite Transit Time | 142.72 | micro-sec/m |
| Sonic used for Porosities | 3-5' Compensated Sonic | |
| Correction for Sonde Skew | Applied | |
| Cycle Stretch Algorithm | Applied | |
| MN3FT | N/A | micro-sec |
| MX3FT | N/A | micro-sec |

Fixed Gate Parameters

| Start Time (micro-sec) | End Time (micro-sec) | Discriminator (mV) | N/A |
|------------------------|----------------------|--------------------|-----|
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

Down Hole Fixed Gate Parameters

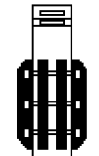
| | | |
|------------|-----|-----------|
| Gate Start | N/A | micro-sec |
| Gate Width | N/A | micro-sec |

Full Waveform Parameters

| | | |
|---------------------------------|-----|----|
| Use derived TR for 3' Waveform | N/A | |
| Use derived TR for 4' Waveform | N/A | |
| Use derived TR for 5' Waveform | N/A | |
| Use derived TR for 6' Waveform | N/A | |
| 3' Waveform Discriminator Level | N/A | mV |
| 4' Waveform Discriminator Level | N/A | mV |
| 5' Waveform Discriminator Level | N/A | mV |
| 6' Waveform Discriminator Level | N/A | mV |
| 3' Waveform Filter | N/A | |
| 4' Waveform Filter | N/A | |
| 5' Waveform Filter | N/A | |
| 6' Waveform Filter | N/A | |

DOWNHOLE EQUIPMENT
All measurements relative to tool zero.

Compact Stiff Bridle Electrode Sub.
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



27.65 m SPDL - Spontaneous Potential

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

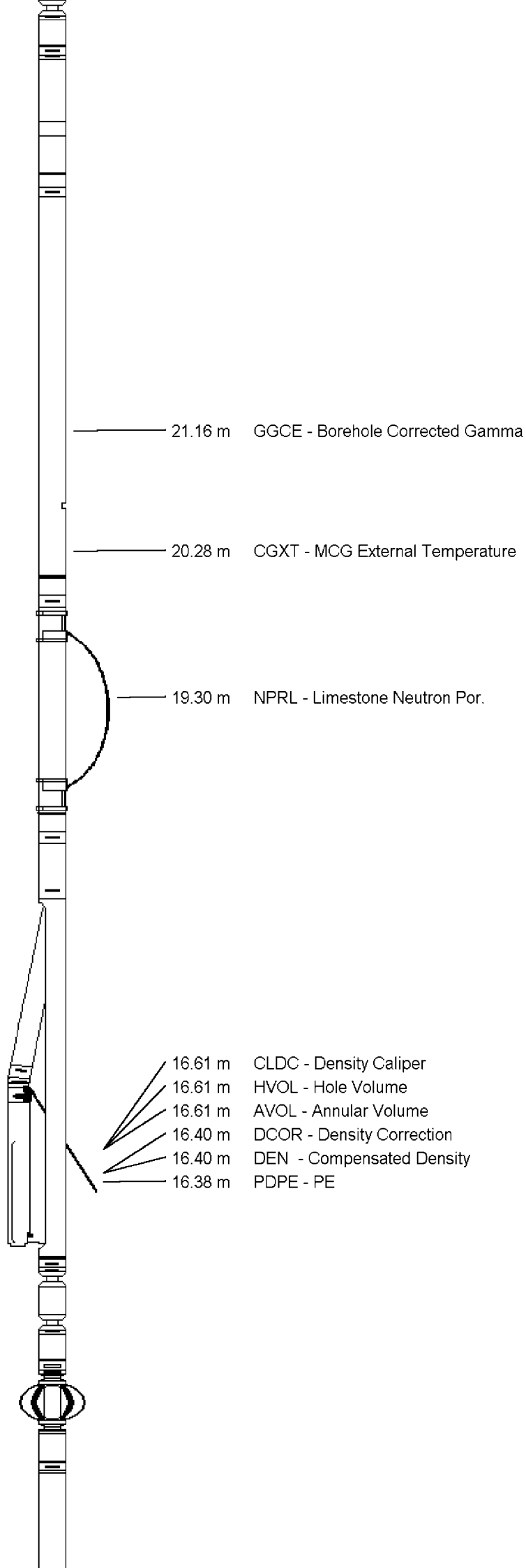
Compact Neutron
MDN 68 Length: 1.53 m Weight: 50.71 lb

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

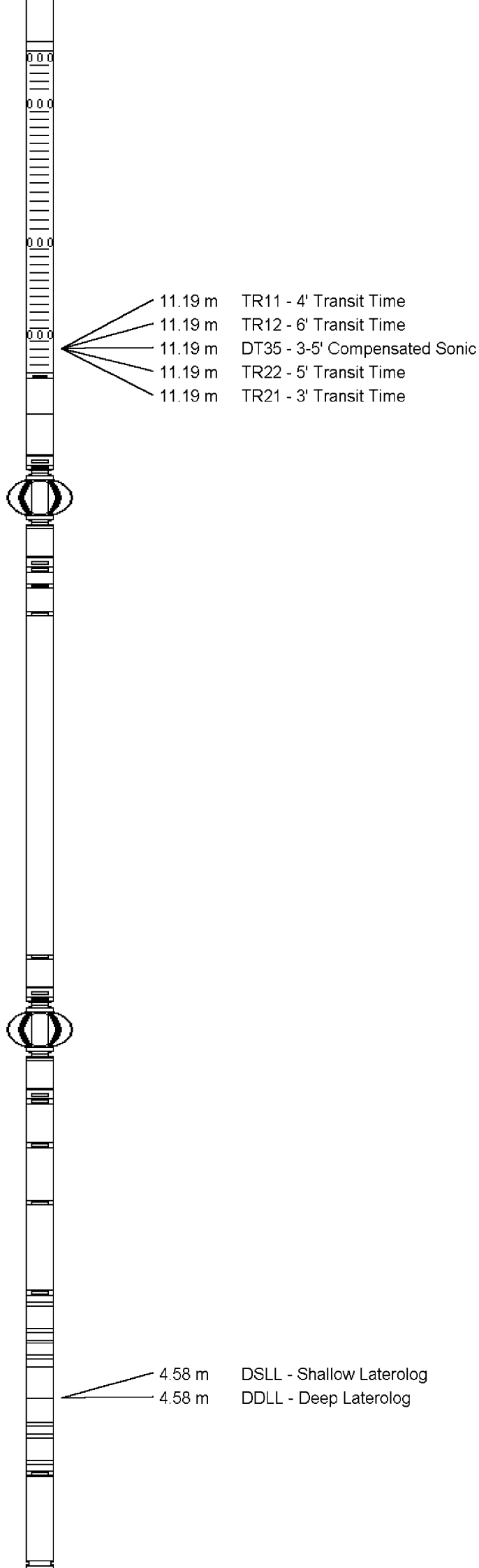


Compact Inline Standoff B
MIS 75 Length: 0.65 m Weight: 15.43 lb

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



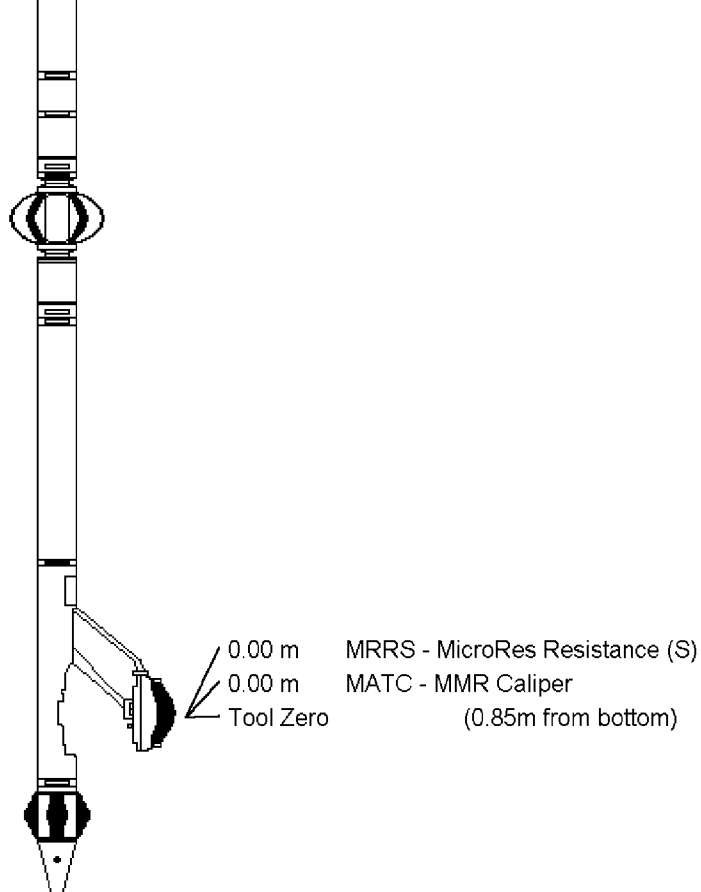
Compact Inline Standoff B
MIS 76 Length: 0.65 m Weight: 15.43 lb

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 |

Reeves

COMPENSATED SONIC
1:500 MD