

Reeves

COMPENSATED SONIC 1:200 TVD

COMPANY				ESSO AUSTRALIA PTY. LTD.			
WELL				TUNA A10a			
FIELD				GIPPSLAND BASIN			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				AMG X 624224.99m E AMG Y 5774222.49m N LAT:38°10'16.394"S LONG:148°25'05.413"E			
LSD	SEC	TWP	RGE	Other Services DUAL LATEROLOG PHOTO DENSITY			
API Number				COMPENSATED NEUTRON			
Permit Number							
Permanent Datum MSL				, Elevation 0 metres		Elevations: KB 31.32 metres DF 31.32 metres GL -59.40 metres	
Log Measured From 31.32, Metres				above Permanent Datum			
Drilling Measured From Drill Floor, RT							
Date				12-OCT-2002			
Run Number				1			
Depth Driller				1446.70 metres			
Depth Logger				1446.70 metres			
First Reading				1445.00 metres			
Last Reading				1346.00 metres			
Casing Driller				625.90 metres			
Casing Logger							
Bit Size				8.50 inches			
Hole Fluid Type				KCL PHPA			
Density / Viscosity				10.30 lb/USg 57.00			
PH / Fluid Loss				8.90 3.40 ml/30Min			
Sample Source				FLOWLINE			
Rm @ Measured Temp				0.126 @ 25.0 ohm-m			
Rmf @ Measured Temp				0.097 @ 25.0 ohm-m			
Rmc @ Measured Temp				0.191 @ 25.0 ohm-m			
Source Rmf / Rmc				PRESS FILTER			
Rm @ BHT				0.07 @ 63.0 ohm-m			
Time Since Circulation				0.65 HRS			
Max Recorded Temp				63.00 deg C			
Equipment Name				SHUTTLE			
Equipment / Base				1 CML			
Recorded By				MATT BARNES			
Witnessed By				BRUCE MENZEL			
Last Title							

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	661.20	2312.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
	9.625	0.00	661.20	40.00

REMARKS

DRILLING RIG: NABORS (ISDL) RIG 453.

COMPACT WIRELINE TOOLS DEPLOYED BY COMPACT WELL SHUTTLE TECHNIQUE.

MESSENGER DEPLOYED WITH HALLIBURTON CEMENT PUMP, MESSENGER DEPLOYED AT 14:35 12-OCT.
RING SHEARED AT 15:08 12-OCT.

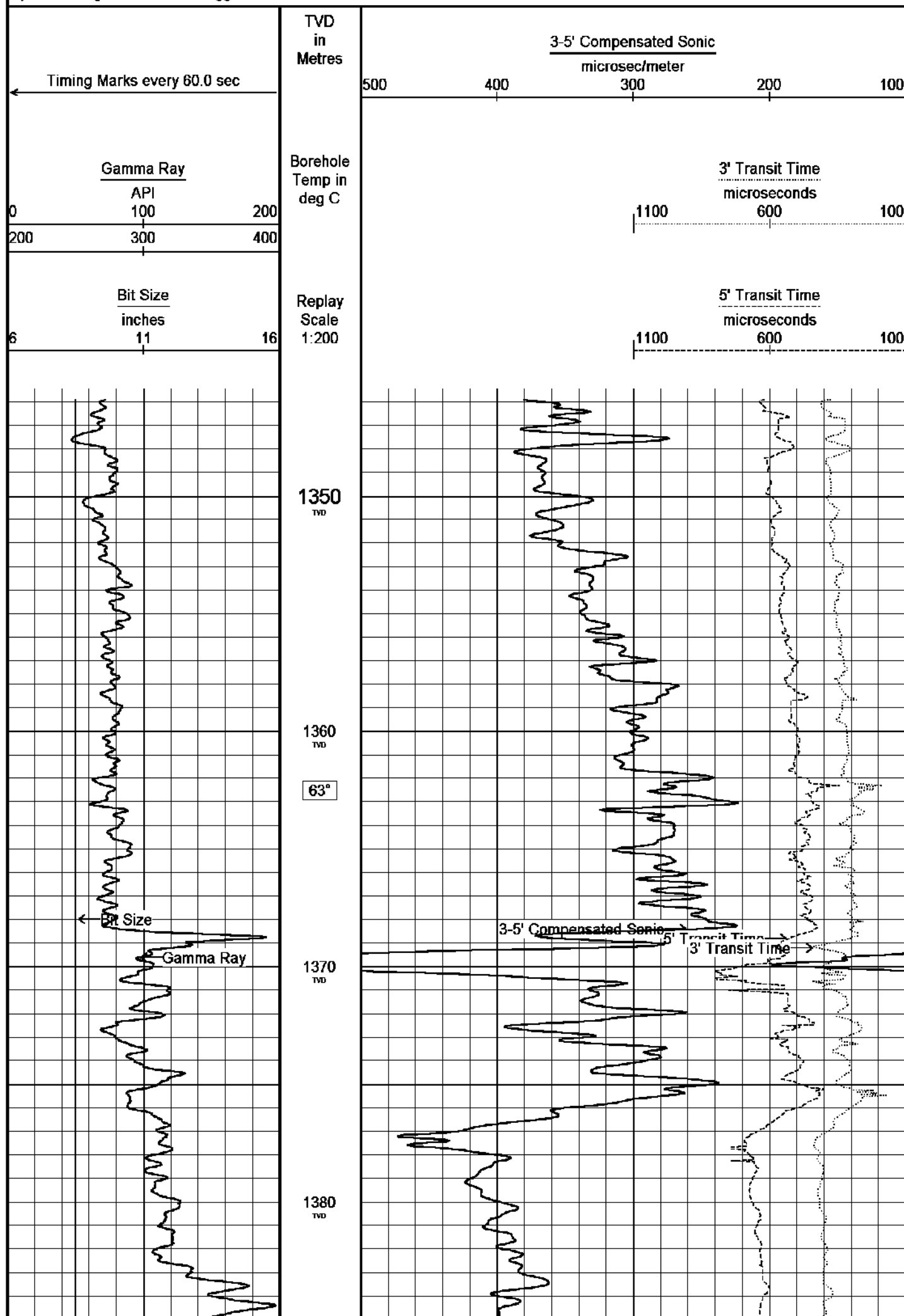
DENSITY CALIPER DID NOT OPEN, LOGS PROCESSED USING BITSIZE FOR CALIPER CORRECTIONS.

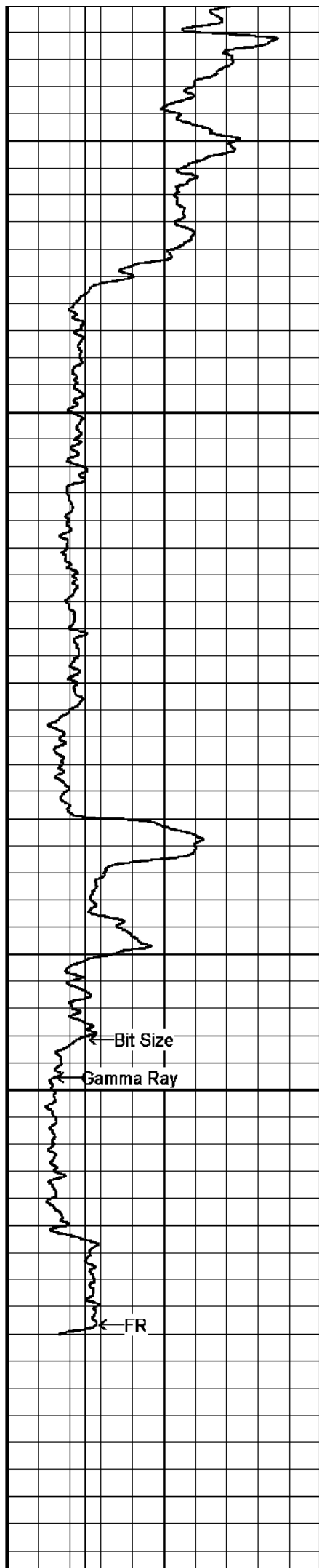
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

MAIN LOG 1:200

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 31-OCT-2002 20:56





63°

1390
TVD

1400
TVD

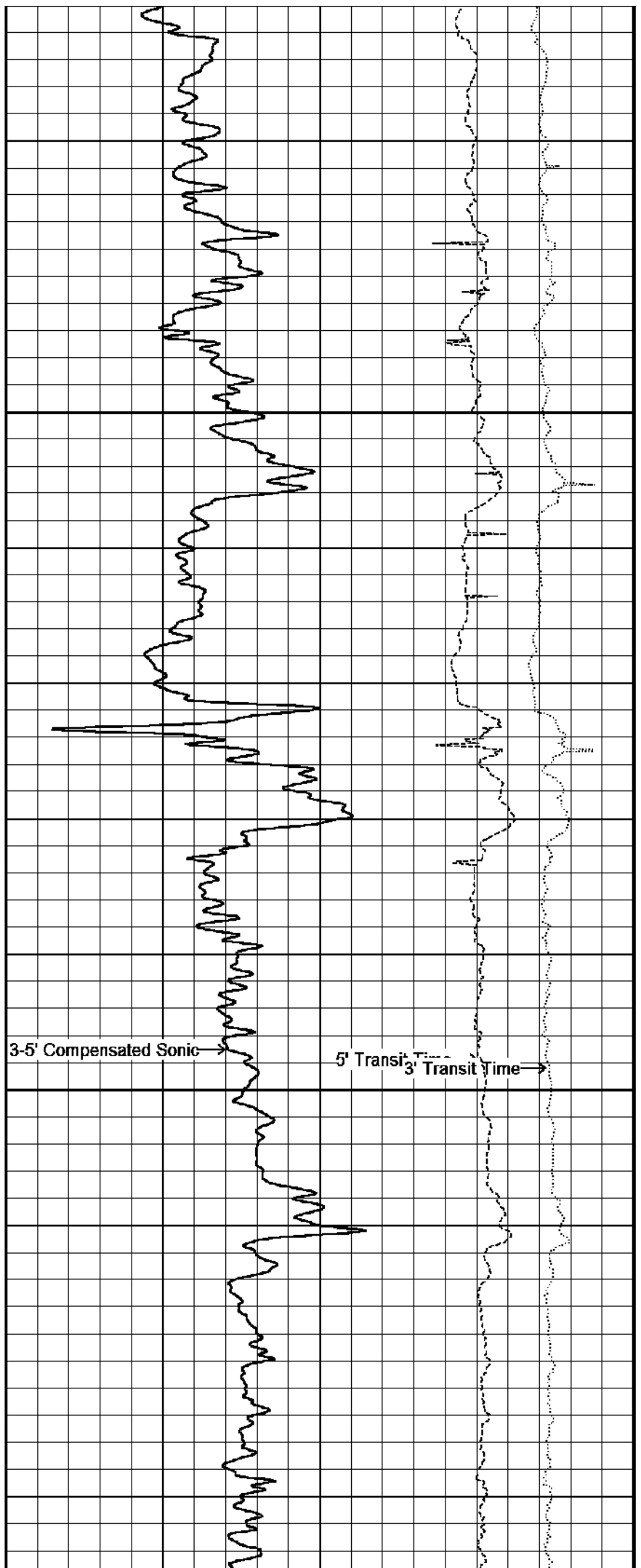
1410
TVD

61°

1420
TVD

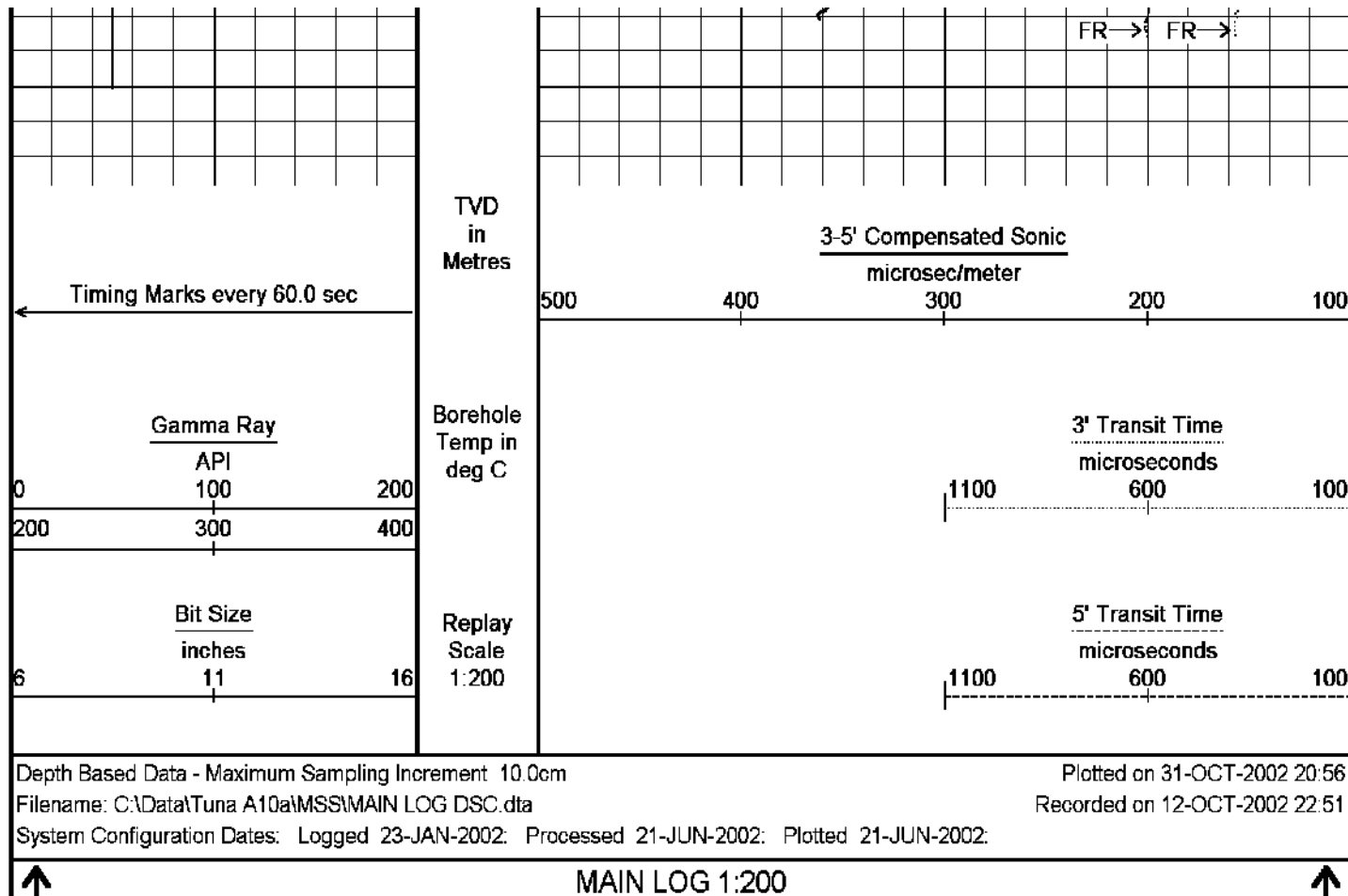
1430
TVD

1440
TVD



3-5' Compensated Sonic

5' Transit Time



BEFORE SURVEY CALIBRATION

C:\Data\Tuna A10a\MSS\MAIN LOG DSC.dta

General Constants All 000

General Parameters

Mud Resistivity	0.07	ohm-metres
Mud Resistivity Temperature	63.00	degrees C
Water Level	0.00	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume Parameters

HVOL Caliper 1	Density Caliper
HVOL Caliper 2	None
Annular Volume Diameter	7.00 inches

Rwa Parameters

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

Gamma Calibration MCG 044

Field Calibration on 10-OCT-2002 15:55

	Measured	Calibrated (API)
Background	12	8
Calibrator (Gross)	1440	917
Calibrator (Net)	1428	909

Gamma Constants MCG 044

Gamma Calibrator Number	060
Mud Density	1.24 gm/cc
Caliper Source for Processing	Bit Size
Tool Position	Centred
Concentration of KCl	0.00 kppm

High Resolution Temperature Calibration MCG 044

Field Calibration on 4-SEP-2002,14:58

Measured	Calibrated(Deg C)
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Lower	1.00	1.00
Upper	150.00	150.00
High Resolution Temperature Constants MCG 044		
Pre-filter Length	11	
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
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 Battery Sub.
MBS 99 Length: 4.34 m Weight: 44.09 lb



Compact Knuckle Joint
SKJ 47 Length: 0.66 m Weight: 24.25 lb

Compact Inline Standoff
MIS 52 Length: 0.65 m Weight: 30.86 lb

Compact Stiff Bridle Electrode Sub.
MBE 9 Length: 3.76 m Weight: 94.80 lb

Compact Inline Standoff
MIS 77 Length: 0.65 m Weight: 30.86 lb

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

Compact Inline Standoff
MIS 31 Length: 0.65 m Weight: 30.86 lb



Compact Knuckle Joint
SKJ 44 Length: 0.66 m Weight: 24.25 lb

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

32.58 m GRGC - Gamma Ray

31.69 m CGXT - MCG External Temperature

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

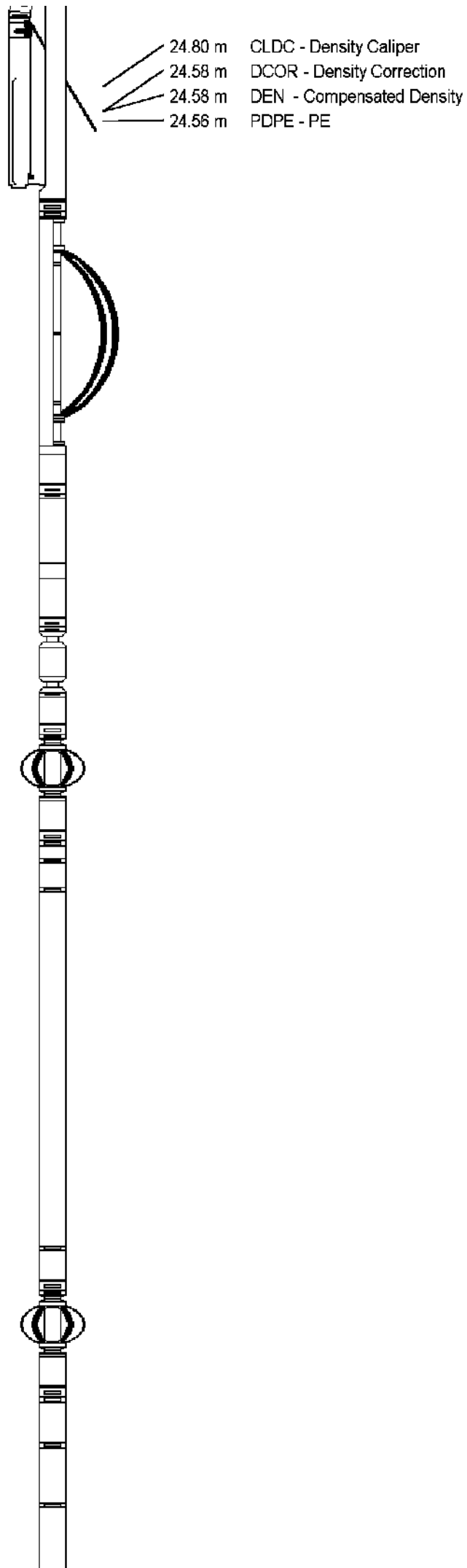
Compact Inline Bowspring
MIS 24 Length: 1.74 m Weight: 33.07 lb

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

27.48 m NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 66 Length: 2.92 m Weight: 90.39 lb





Compact Inline Bowspring
 MIS 25 Length: 1.74 m Weight: 33.07 lb

Compact Swivel Head Adaptor
 SHA 28 Length: 0.83 m Weight: 26.46 lb

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

Compact Inline Standoff
 MIS 53 Length: 0.65 m Weight: 30.86 lb

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

Compact Inline Standoff
 MIS 49 Length: 0.65 m Weight: 30.86 lb

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



14.66 m DSLL - Shallow Laterolog
14.66 m DGLL - Groningen Laterolog

Compact Inline Standoff
MIS 76 Length: 0.65 m Weight: 30.86 lb

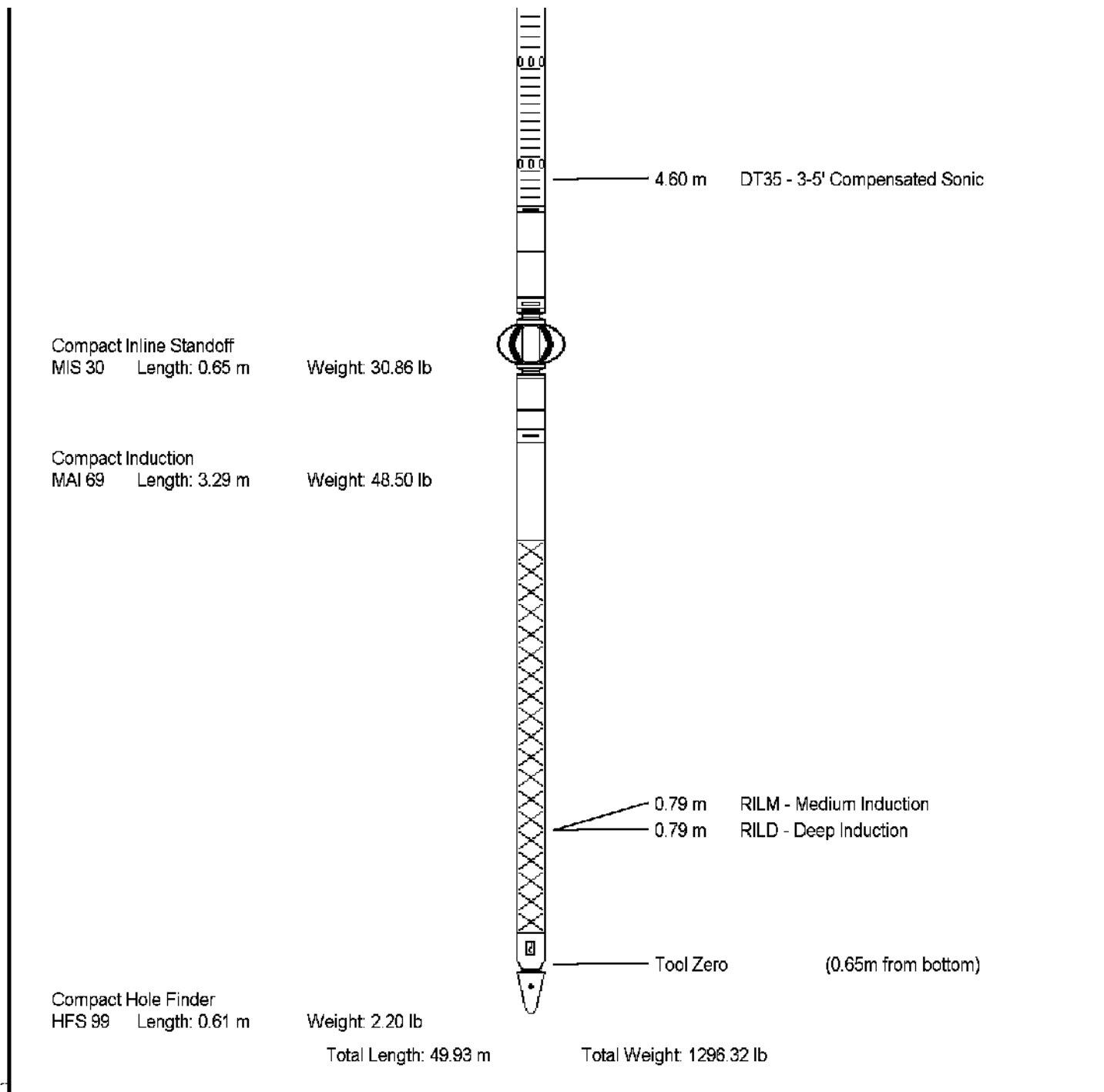
Compact Lower Guard Sub.
MLG 7 Length: 2.44 m Weight: 55.12 lb

Compact Inline Standoff
MIS 73 Length: 0.65 m Weight: 30.86 lb

Compact Knuckle Joint
SKJ 48 Length: 0.66 m Weight: 24.25 lb

Compact Inline Standoff
MIS 75 Length: 0.65 m Weight: 30.86 lb

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



COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	TUNA A10a
FIELD	GIPPSLAND BASIN
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	1445.00	metres
Elevation Drill Floor 31.32	metres	Depth Driller	1446.70	metres
Elevation Ground Level -59.40	metres	Depth Logger	1446.70	metres

Reeves	COMPENSATED SONIC
	1:200 TVD

