

Reeves

COMPENSATED SONIC 1:500 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.

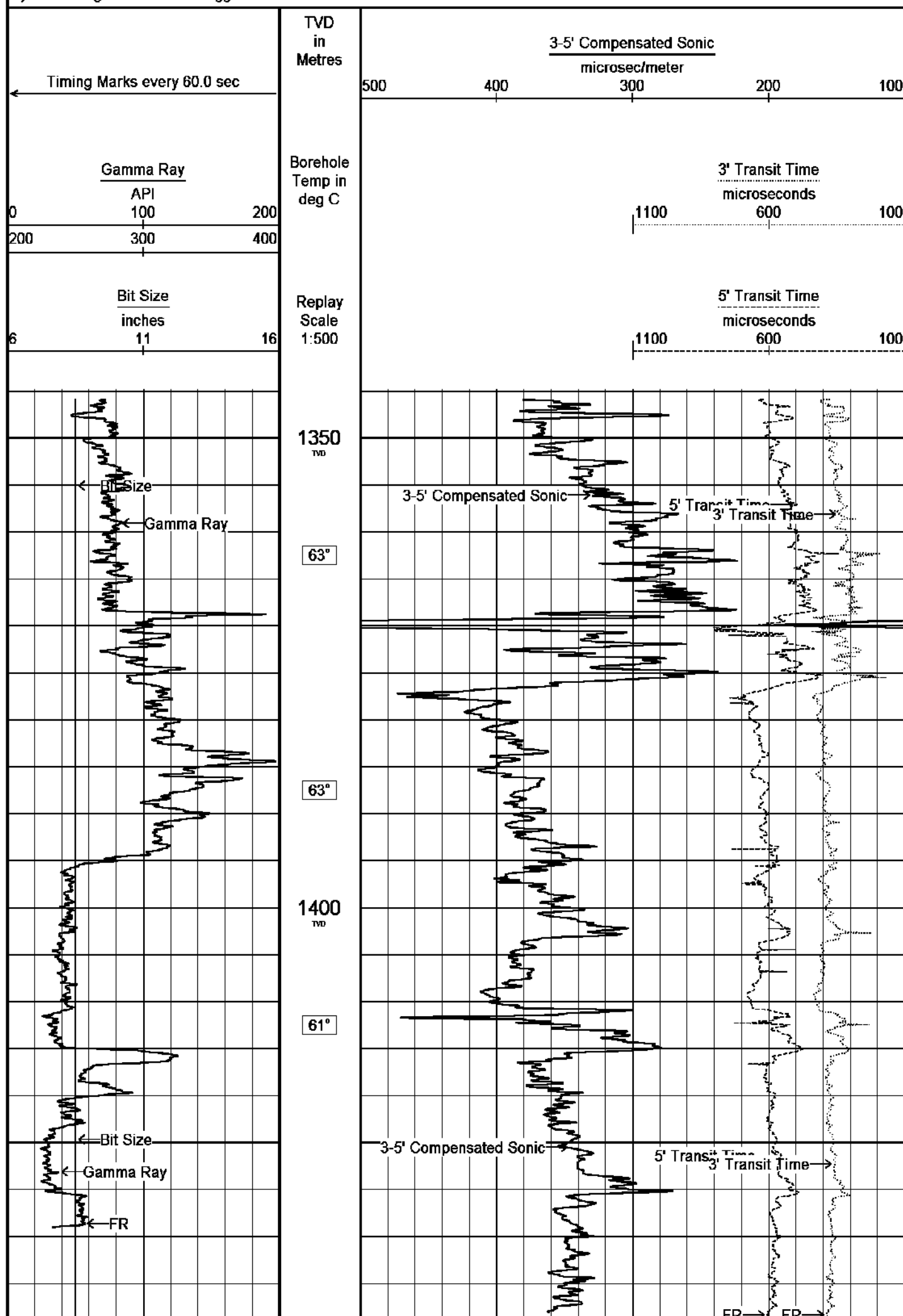
DENSITY CALIPER DID NOT OPEN, LOGS PROCESSED USING BITSIZE FOR CALIPER CORRECTIONS.

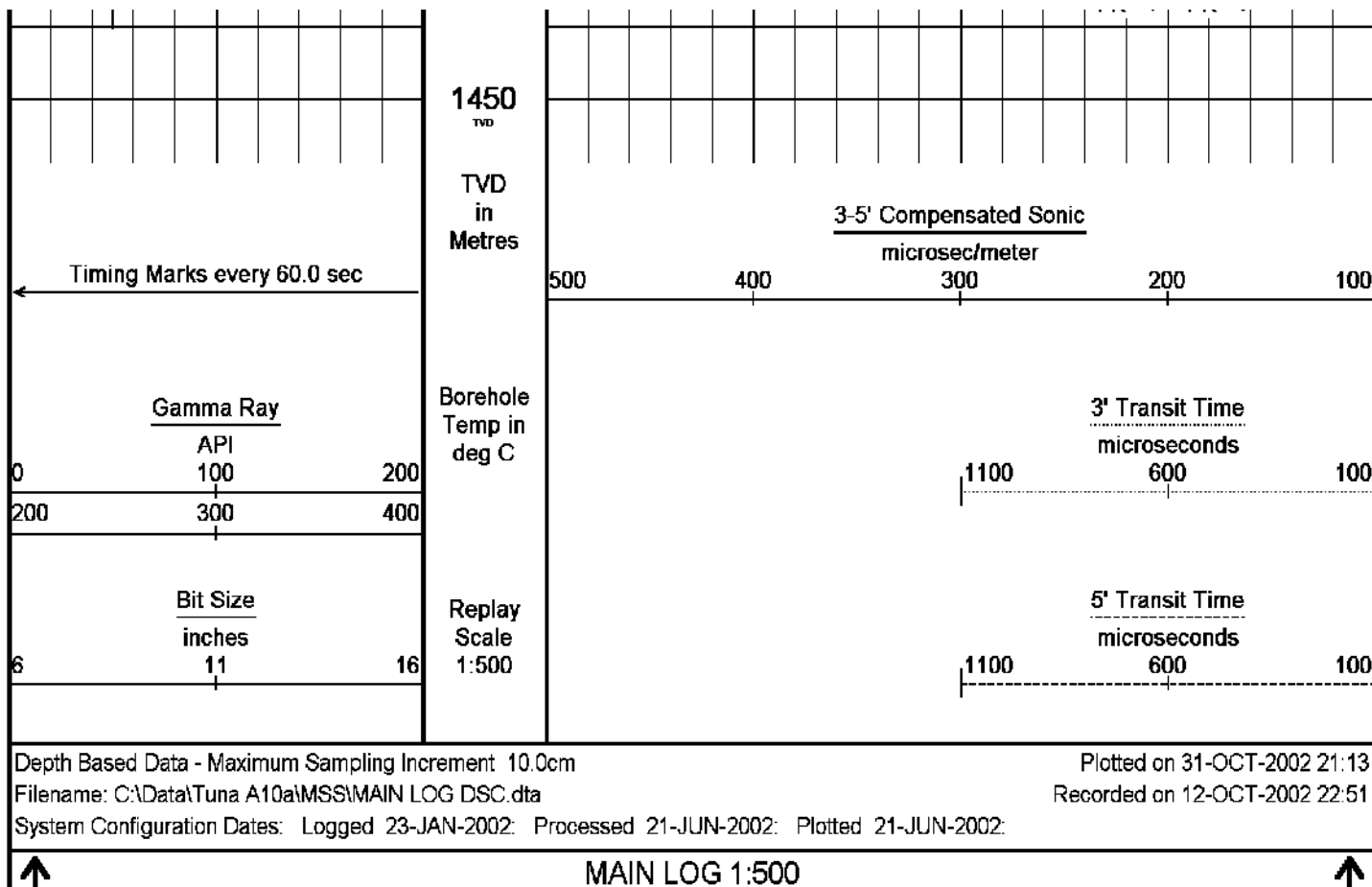
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 1:500

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 31-OCT-2002 21:13





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)
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	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

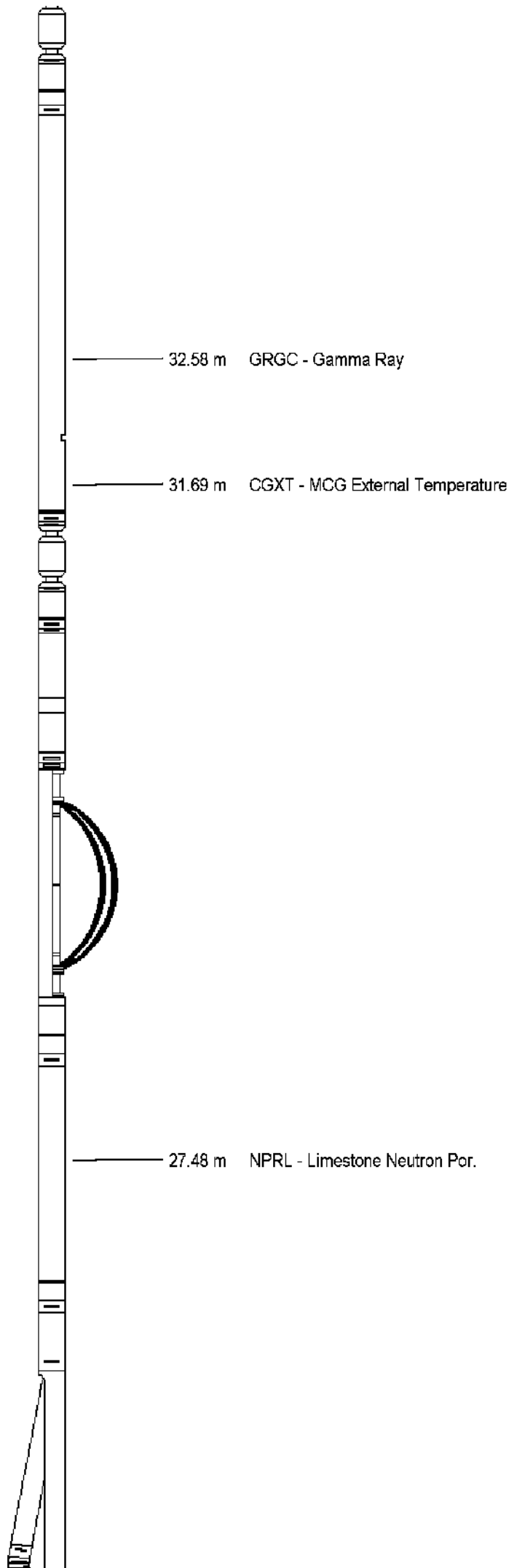
Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.25 lb

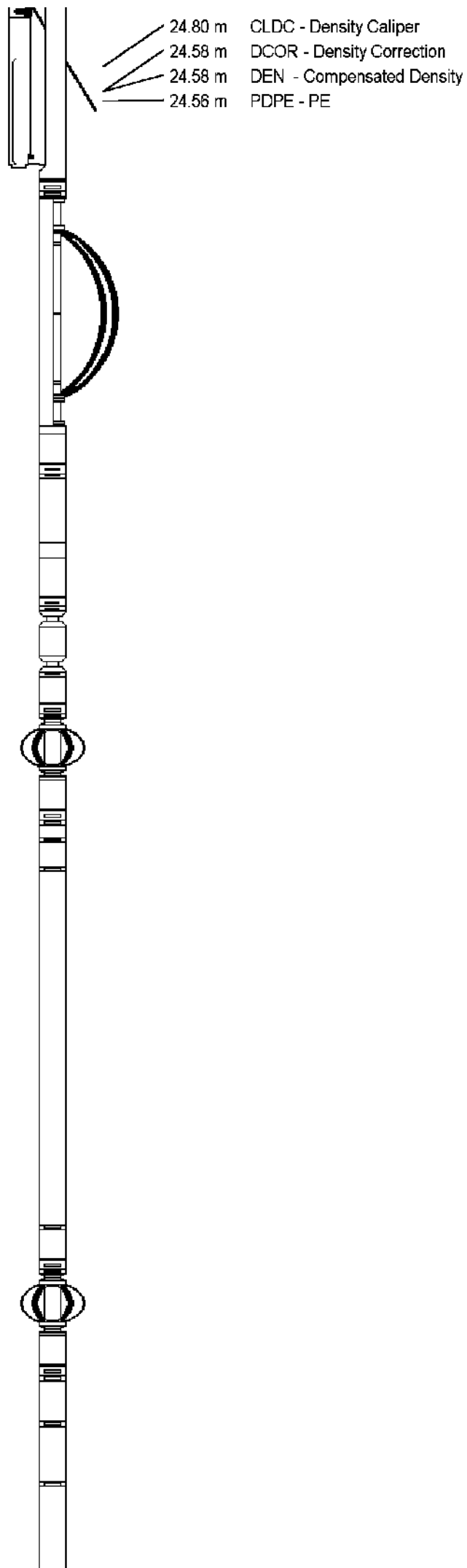
Compact Swivel Head Adaptor
SHA 27 Length: 0.83 m Weight: 26.46 lb

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

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





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

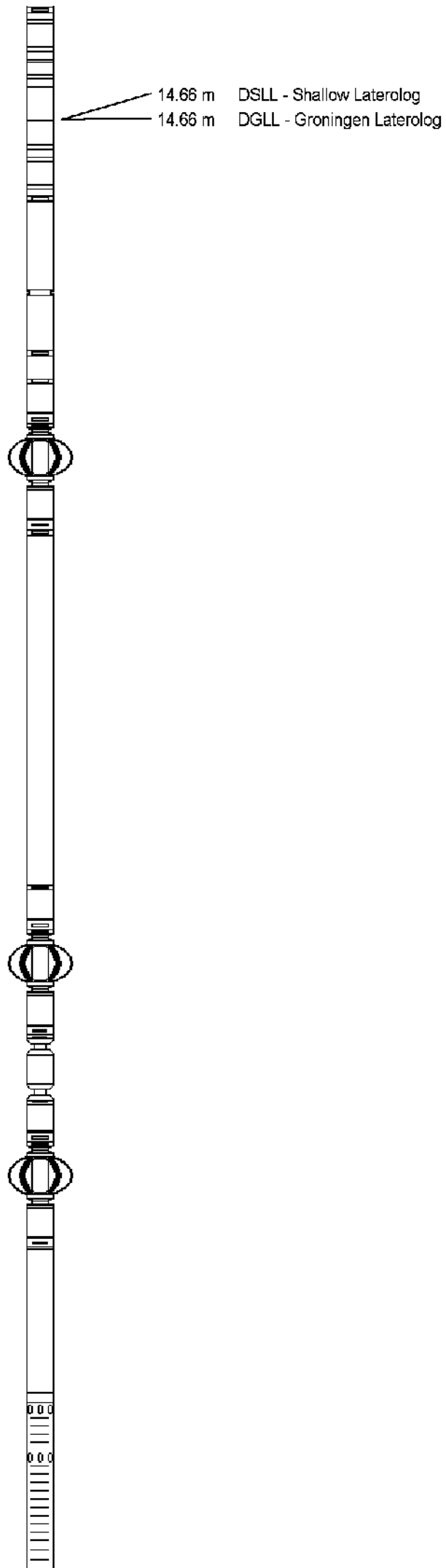
Compact Lower Guard Sub.
MLG 7 Length: 2.44 m Weight: 55.12 lb

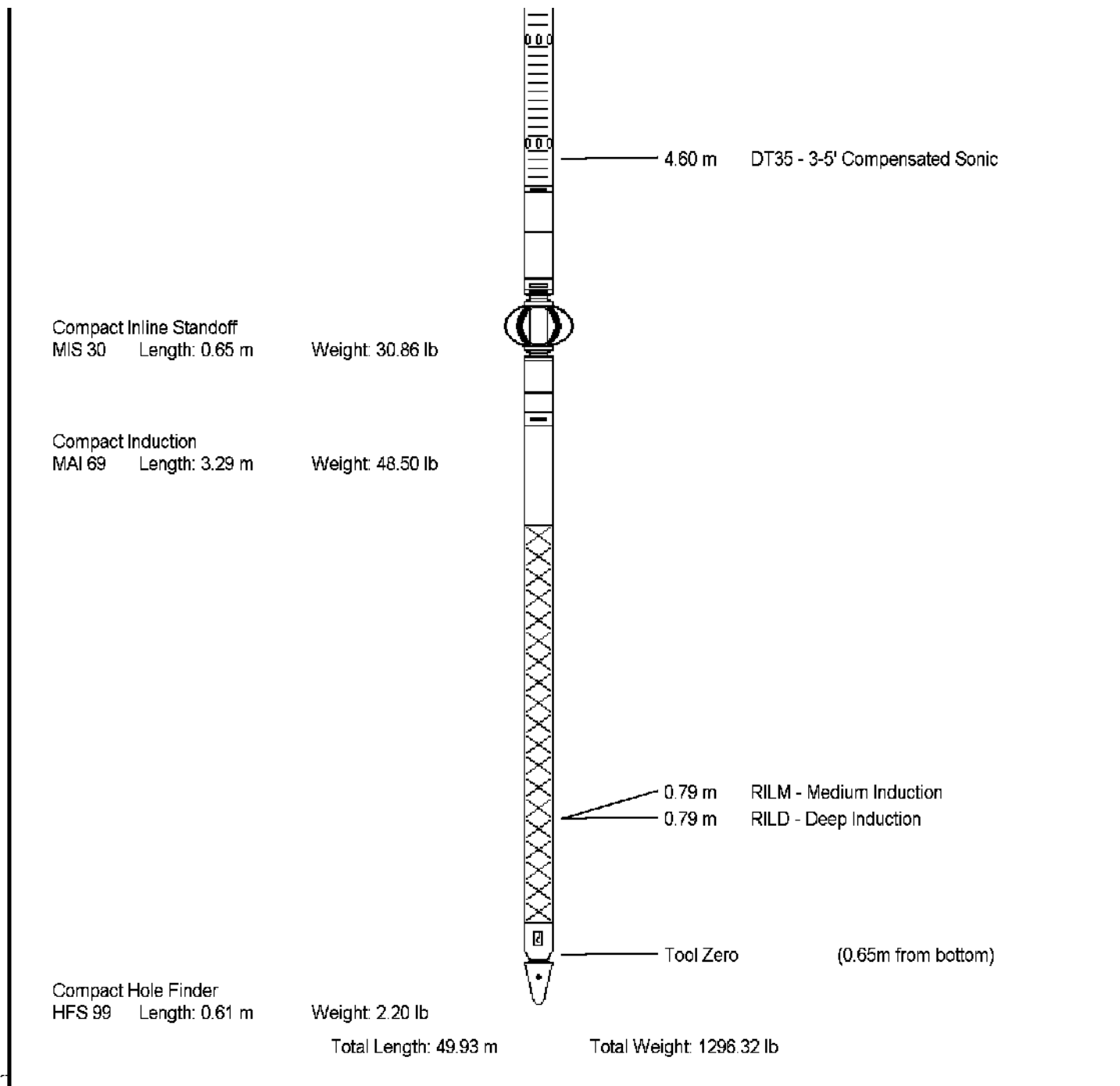
Compact Inline Standoff
MIS 73 Length: 0.65 m Weight: 30.86 lb

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



COMPENSATED SONIC

1:500 TVD

