

Reeves

COMPENSATED SONIC 1:200 MD

COMPANY				ESSO AUSTRALIA PTY. LTD.			
WELL				TUNA A-05A			
FIELD				GIPPSLAND BASIN			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				X: 624233.40 m E, Y: 5774225.83 m N 38°10'16.282" S, 148°25'05.756" E			
LSD	SEC	TWP	RGE	Other Services DUAL LATEROLOG PHOTO DENSITY		COMPENSATED NEUTRON	
API Number							
Permit Number							
Permanent Datum MSL				, Elevation 0		metres	
Log Measured From DF@ 31.32				metres above Permanent Datum			
Drilling Measured From DF							
Date	26-Dec-2002						
Run Number	1						
Depth Driller	3257.00			metres			
Depth Logger	3257.00			metres			
First Reading	3251.20			metres			
Last Reading	2900.00			metres			
Casing Driller	836.41			metres			
Casing Logger							
Bit Size	8.50			Inches			
Hole Fluid Type	KCL/PPH/AGLY						
Density / Viscosity	10.30 lb/USg			64.00 secs/ct			
PH / Fluid Loss	9.00			3.20 ml/30Min			
Sample Source	FLOWLINE						
Rm @ Measured Temp	0.118 @ 25.0			ohm-m			
Rmf @ Measured Temp	0.085 @ 25.0			ohm-m			
Rmc @ Measured Temp	0.193 @ 25.0			ohm-m			
Source Rmf / Rmc	PRESS			FILTER			
Rm @ BHT	0.059 @ 73.0			ohm-m			
Time Since Circulation	36:15 hrs						
Max Recorded Temp	73.00			deg C			
Equipment Name	SHUTTLE						
Equipment / Base	1			CML			
Recorded By	M. BARNES, B. ARNOLD					D. MACHIN, G. MCWANNUS	
Witnessed By	G. SMITH						
Circ. Stopped	09:00 25-Dec						

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
12.250	218.00	841.00
8.500	841.00	3257.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
	9.625	0.00	836.41	47.00

REMARKS

DRILLING RIG: NABORS (ISDL) RIG 453.

COMPACT WIRELINE TOOLS DEPLOYED BY COMPACT WELL SHUTTLE TECHNIQUE.

MESSENGER DEPLOYED WITH RIG MUD PUMPS.

RING SHEARED AT 21:10 26-DEC-02.

SHEARING PRESSURE WAS 1200 PSI.

HTHP FILTER LOSS = 10.8 ml/30min.

CASING DETAILS:

20" 133.0 lb/ft from surface to 164.60 m.

13 3/8" 54.5 lb/ft from surface to 609.65 m (window milled from 210.39 m to 218.39 m).

9 5/8" 47.0 lb/ft from surface to 836.41 m.

CALIPER READING 8.68" ON TIME LOG IN 9 5/8" 47 LB/FT CASING.

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 27-DEC-2002 11:11

Filename: C:\Data\Tuna A05A\MAIN LOG DSC.dta

Recorded on 27-DEC-2002 06:56

System Configuration Dates: Logged 21-JUN-2002: Processed 21-JUN-2002: Plotted 21-JUN-2002

Depth
in
Metres3-5' Compensated Sonic
microsec/metre

Timing Marks every 60.0 sec

Density Caliper
inchesBorehole
Temp in
deg CHVI
every
0.1 cu m

Borehole Corrected Gamma

API
100Annular
Integral
every
0.1 cu mBit Size
inchesReplay
Scale
1:200

2900

2910

70°

2920

11

500 400 300 200 100

3' Transit Time
microseconds

1100 600 100

4' Transit Time
microseconds

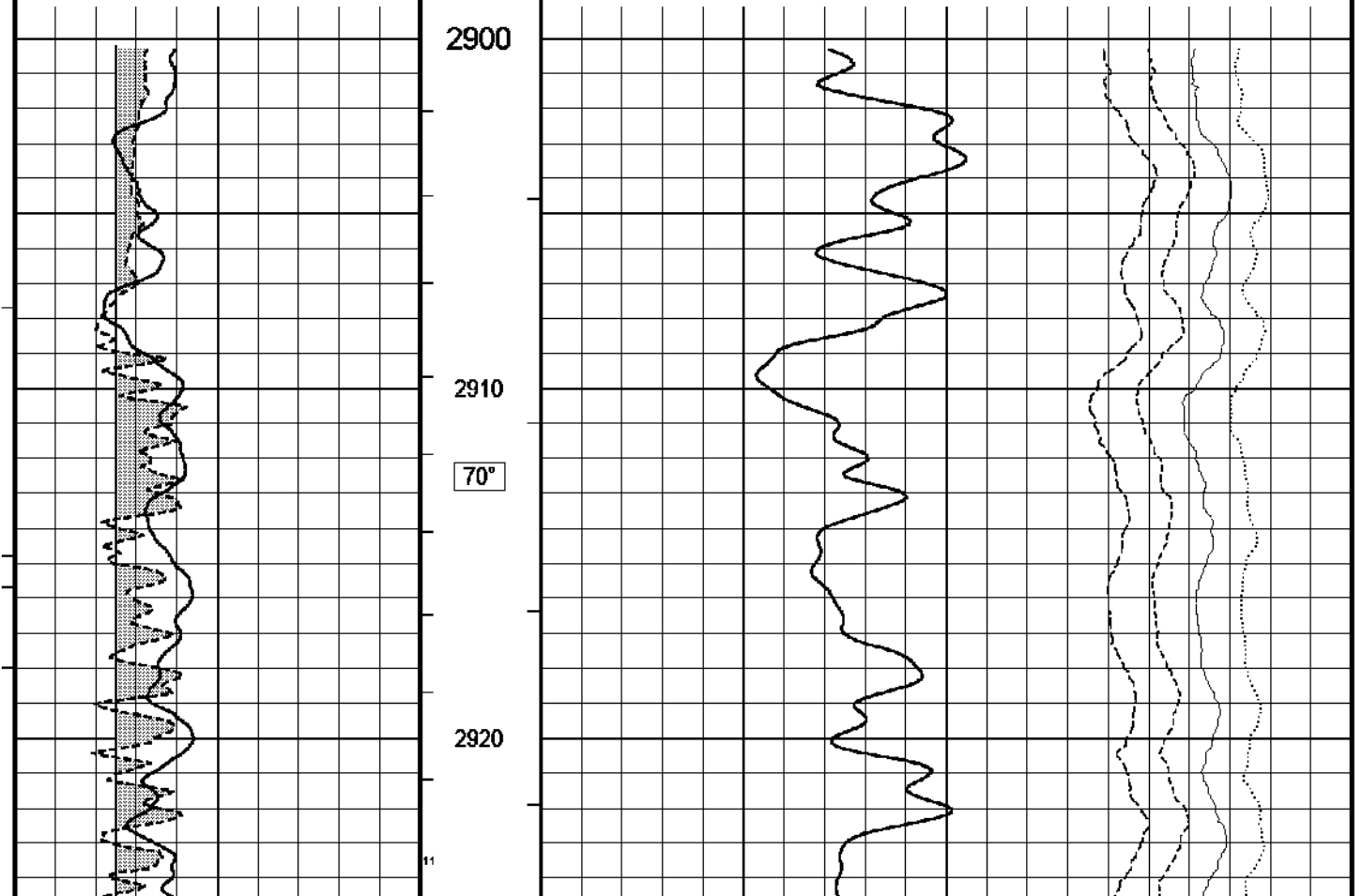
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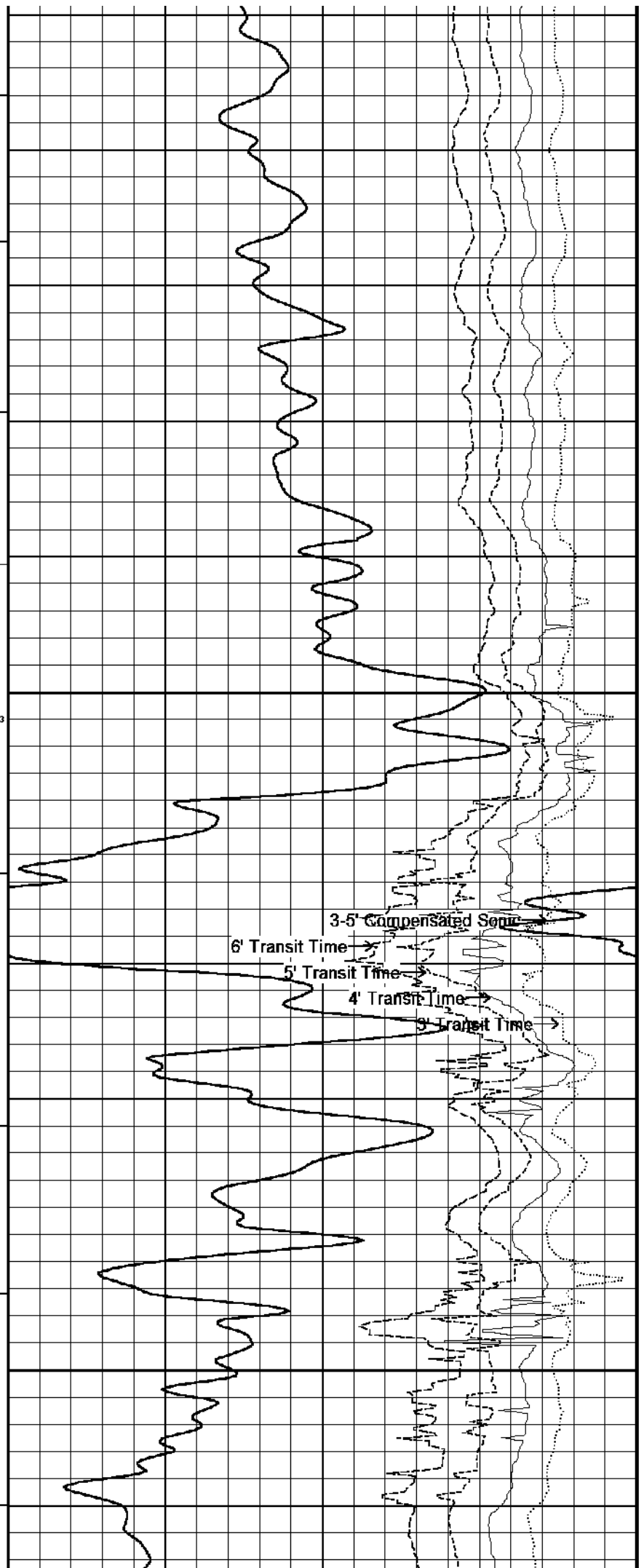
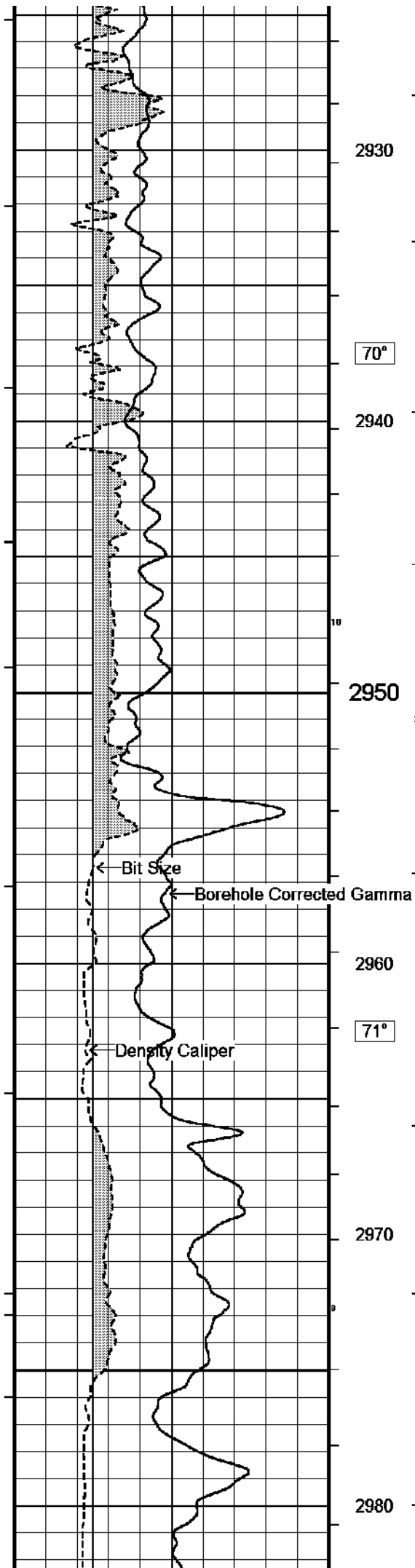
5' Transit Time
microseconds

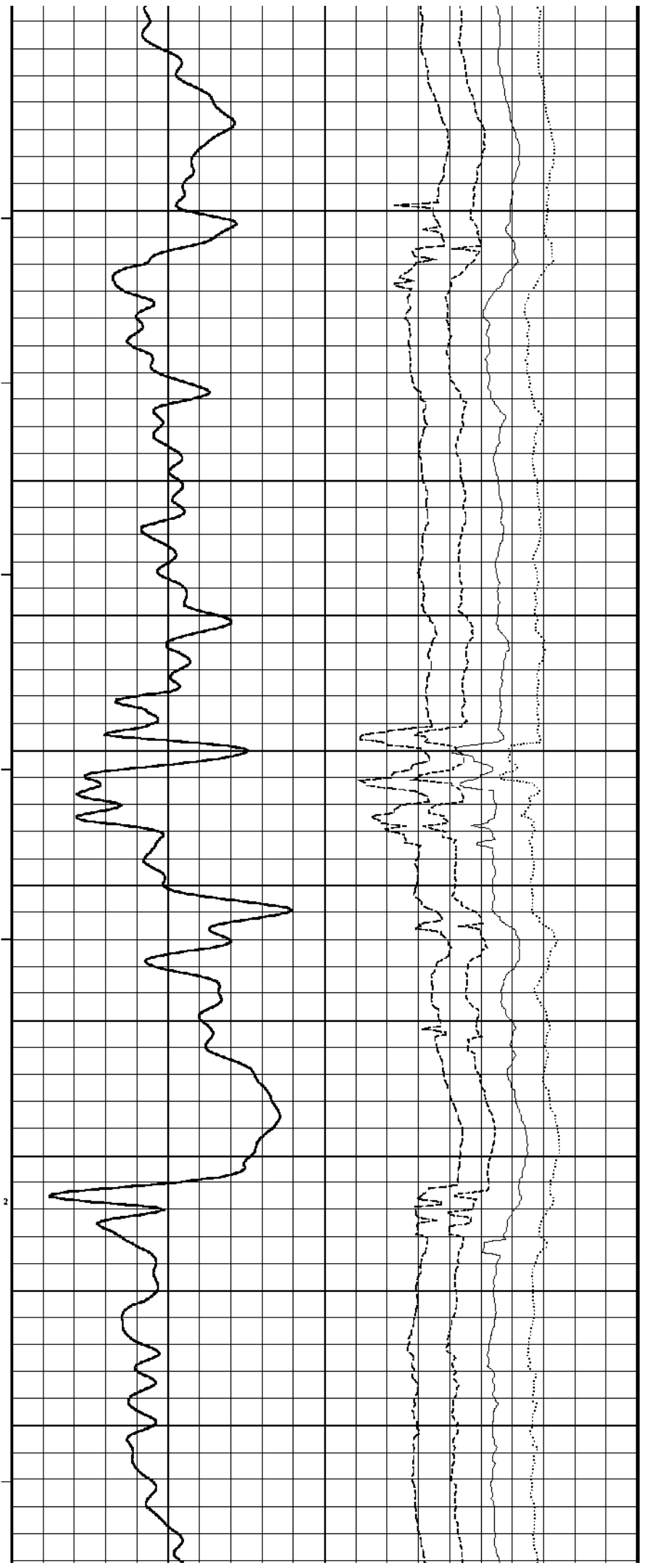
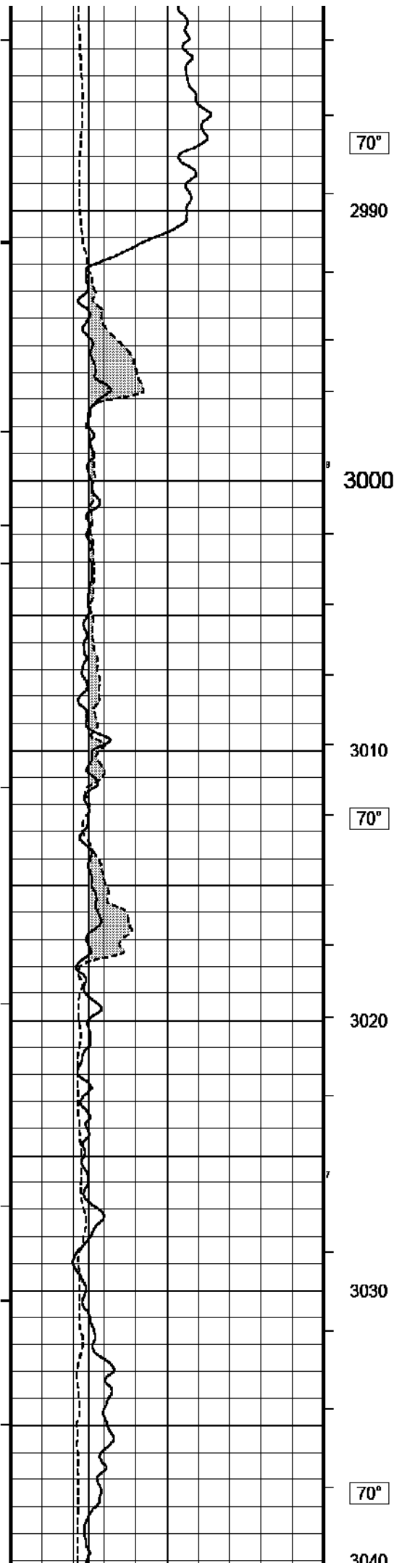
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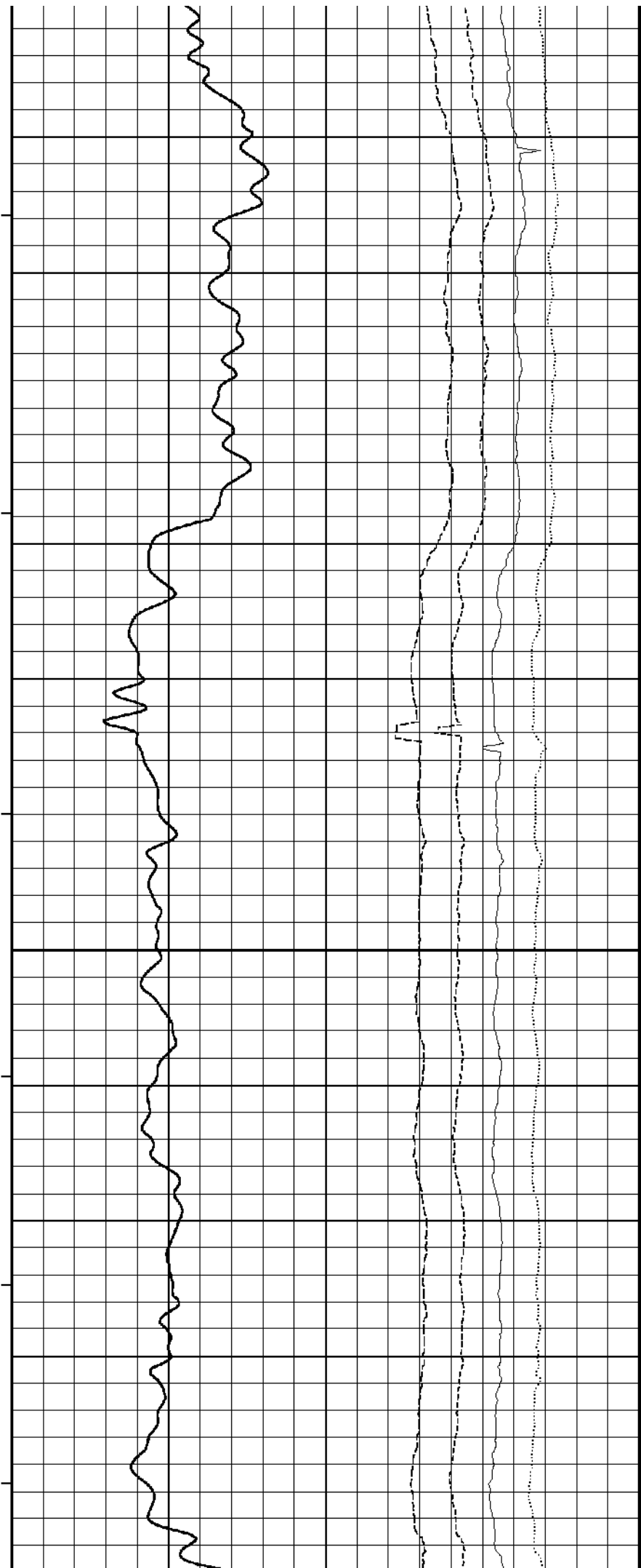
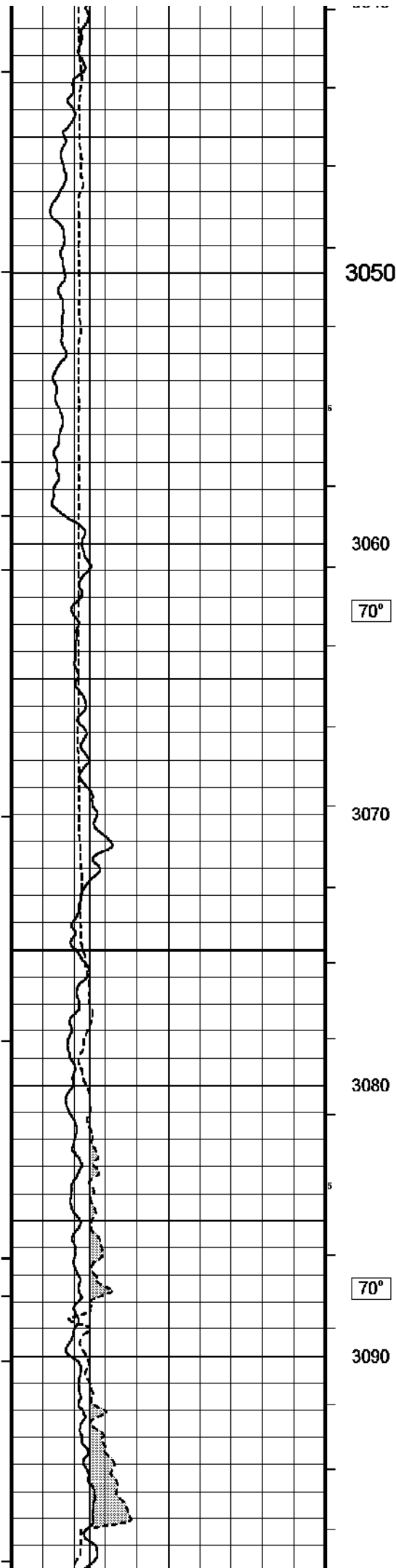
6' Transit Time
microseconds

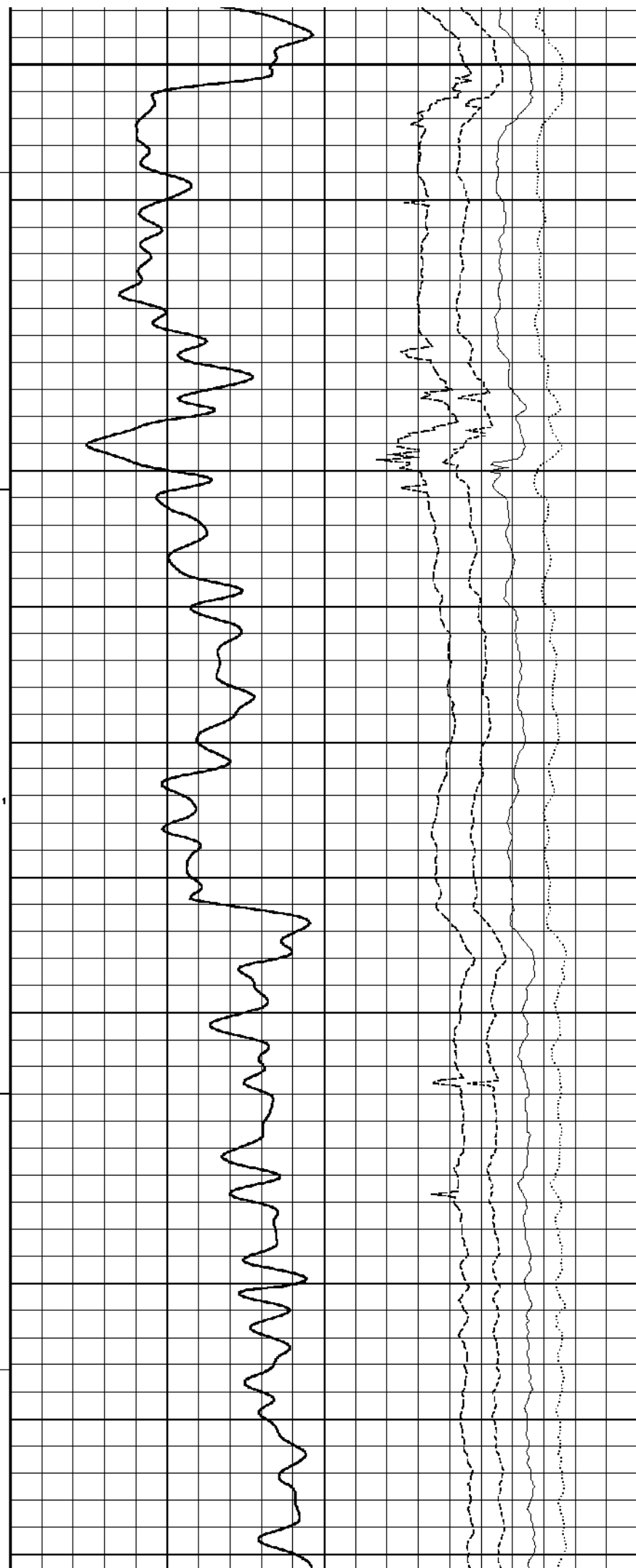
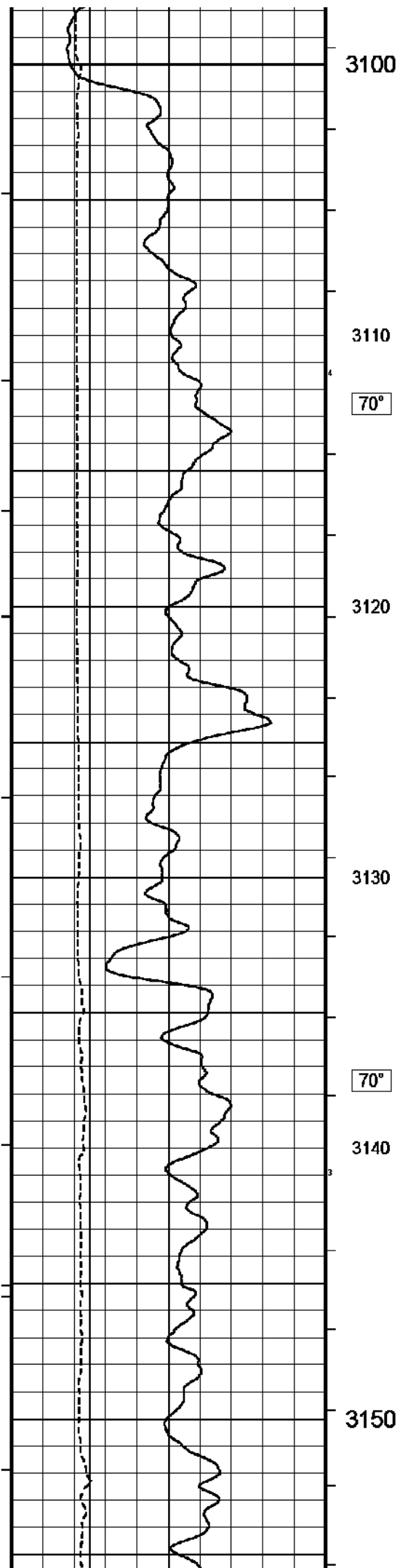
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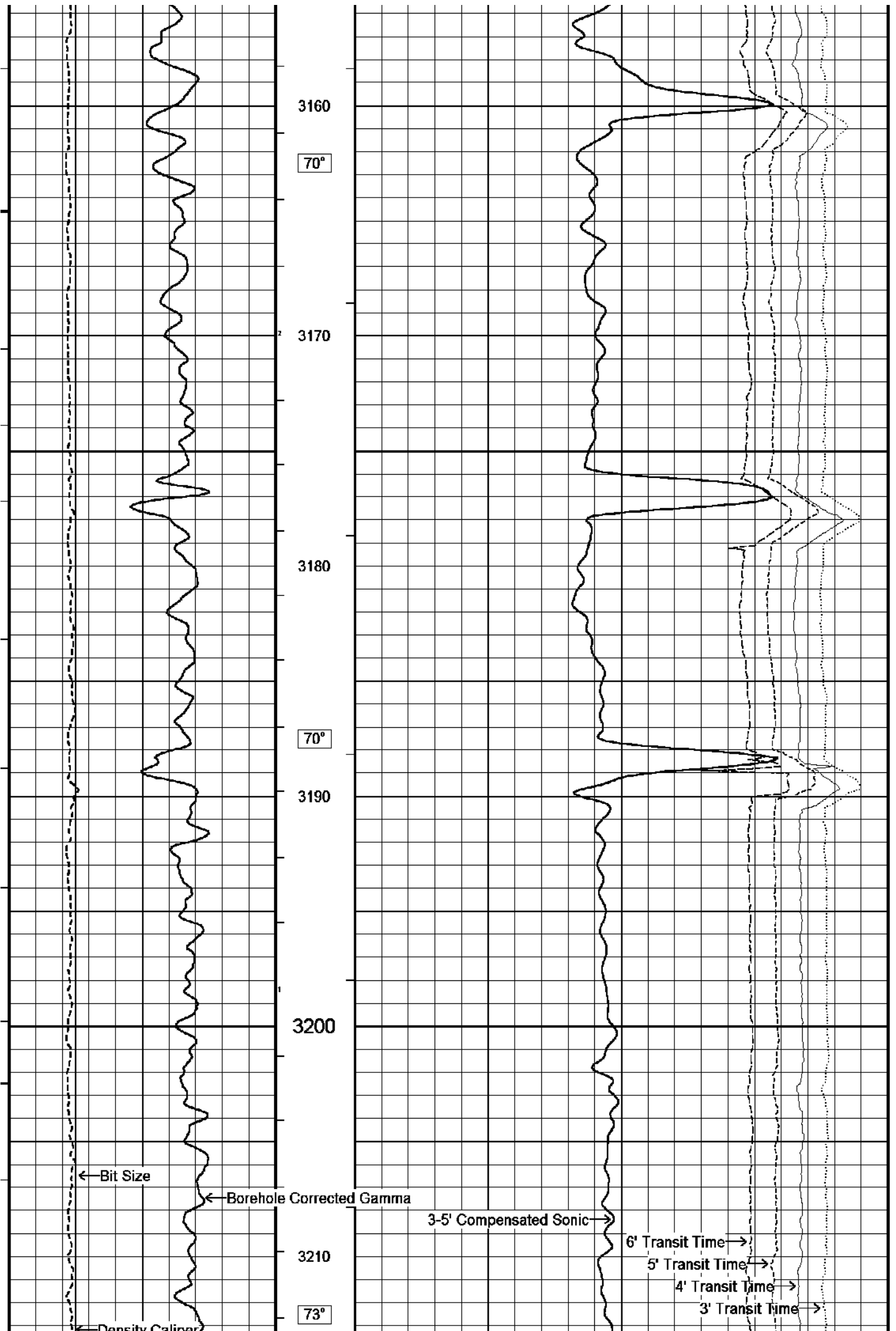


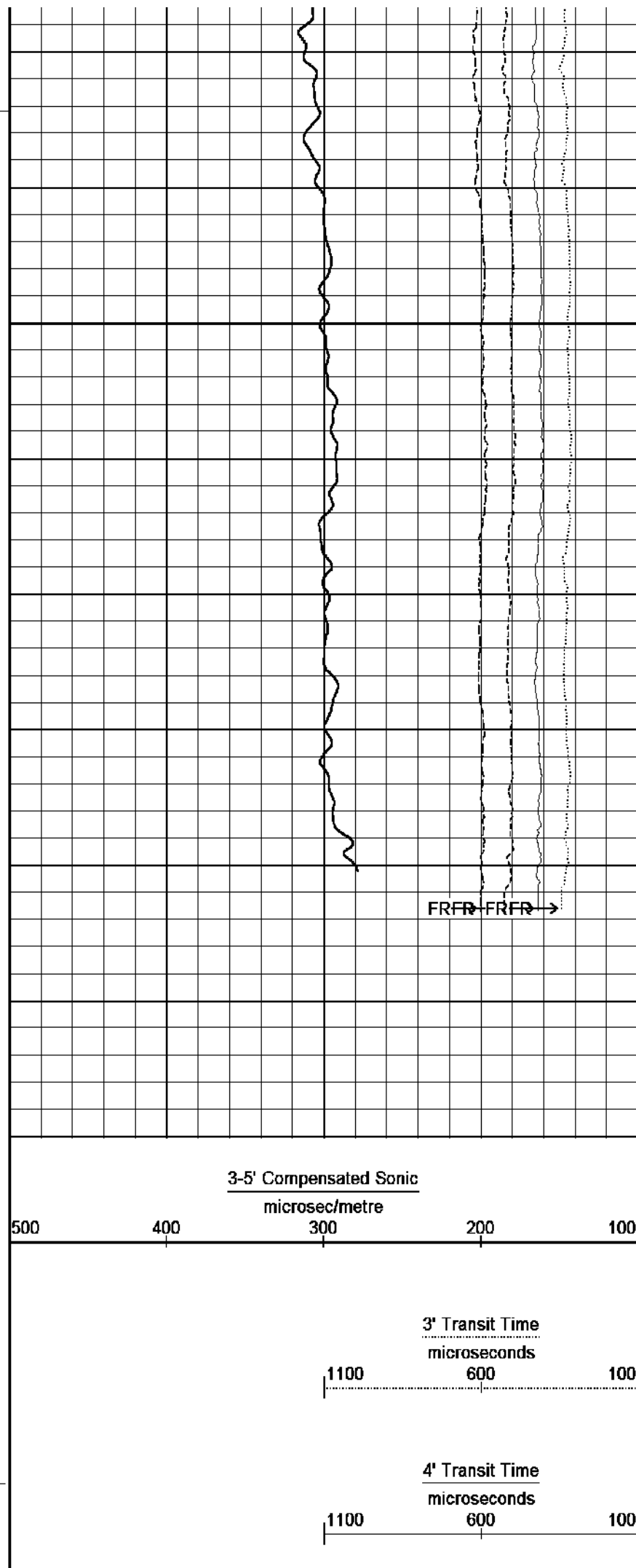
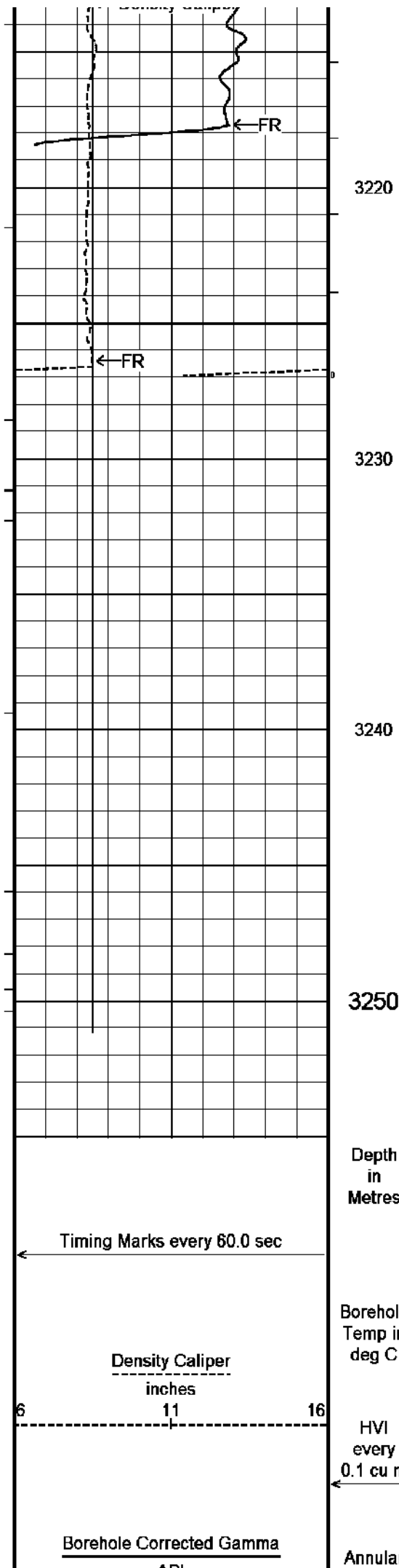












0	100	200	Integral every 0.1 cu m	
200	300	400		
<div>Bit Size inches</div>			Replay Scale 1:200	<div>5' Transit Time microseconds</div> <div>1100600100</div>
6	11	16		<div>6' Transit Time microseconds</div> <div>1100600100</div>
Depth Based Data - Maximum Sampling Increment 10.0cm				Plotted on 27-DEC-2002 11:12
Filename: C:\Data\Tuna A05A\MAIN LOG DSC.dta				Recorded on 27-DEC-2002 06:56
System Configuration Dates: Logged 21-JUN-2002: Processed 21-JUN-2002: Plotted 21-JUN-2002:				
MAIN LOG 1:200				

BEFORE SURVEY CALIBRATION				C:\Data\Tuna A05A\MAIN LOG DSC.dta	
General Constants All 000					
General Parameters					
Mud Resistivity	0.06	ohm-metres			
Mud Resistivity Temperature	73.00	degrees C			
Water Level	0.00	metres			
Density/Neutron Processing	Wet Hole				
Hole/Annular Volume Parameters					
HVOL Caliper 1	Density Caliper				
HVOL Caliper 2	Density Caliper				
Annular Volume Diameter	7.00	inches			
Rwa Parameters					
Porosity used	Base Density Porosity				
Resistivity used	Deep Induction				
RWA Constant A	0.61				
RWA Constant M	2.15				
Gamma Calibration MCG 044				Field Calibration on 24-DEC-2002 10:04	
	Measured	Calibrated (API)			
Background	11	7			
Calibrator (Gross)	1439	916			
Calibrator (Net)	1428	909			
Gamma Constants MCG 044					
Gamma Calibrator Number	060				
Mud Density	1.24	gm/cc			
Caliper Source for Processing	Density Caliper				
Tool Position	Eccentred				
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				
Caliper Calibration MPD 066				Base Calibration on 27-DEC-2002,09:09	
Field Calibration on					
Base Calibration					
Reading No	Measured	Calibrator Size (in)			
1	11999	4.31			
2	20143	6.29			
3	28915	8.28			

4	37314	10.24
5	46672	12.31
6	N/A	N/A

Field Calibration

0	0
0.00	0.00

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

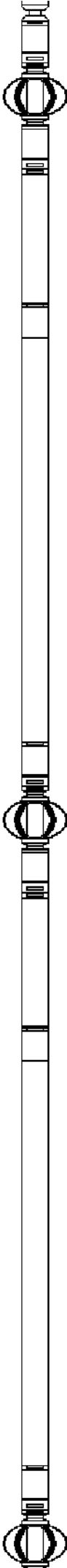
Compact Inline Standoff B
MIS 52 Length: 0.65 m Weight: 15.43 lb

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

Compact Inline Standoff B
MIS 31 Length: 0.65 m Weight: 15.43 lb



MIS 01 Length: 0.66 m Weight: 19.15 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 Memory Sub.
MMS 24 Length: 0.95 m Weight: 22.05 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 A
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



33.53 m GRGC - Gamma Ray

32.64 m CGXT - MCG External Temperature

27.48 m NPRL - Limestone Neutron Por.

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

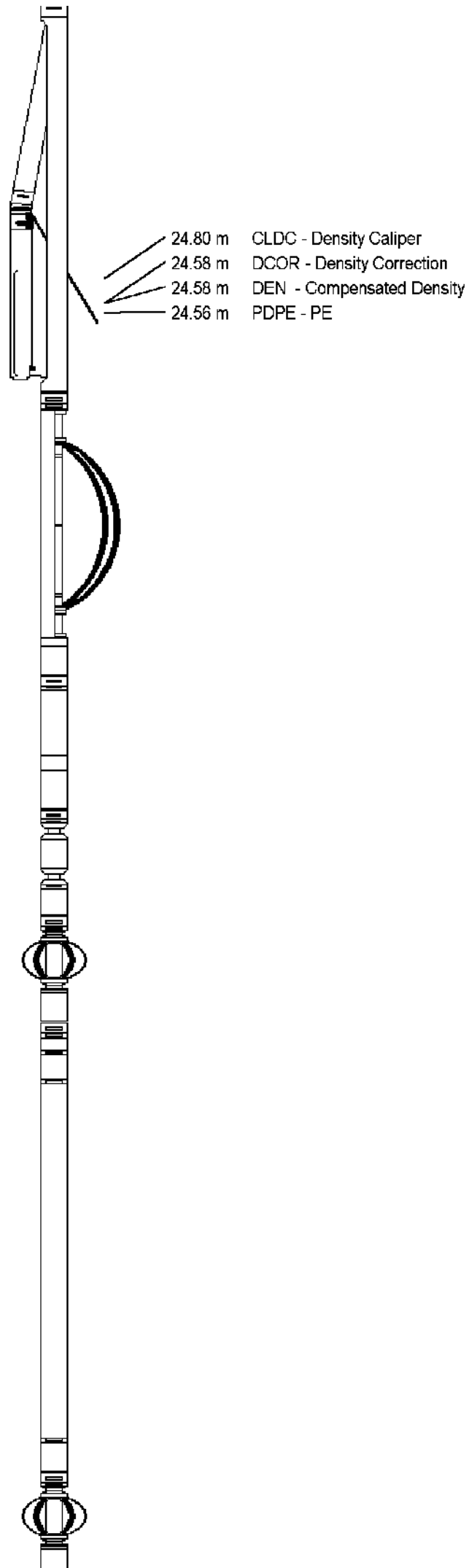
Compact Swivel Head Adaptor
SHA 28 Length: 0.83 m Weight: 26.46 lb

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

Compact Inline Standoff B
MIS 53 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

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

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

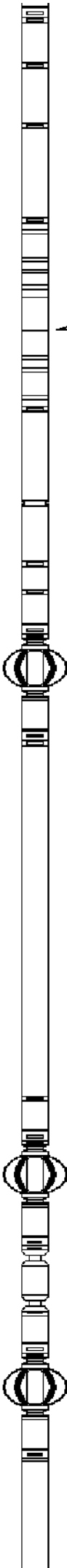
Compact Lower Guard Sub.
MLG 7 Length: 2.44 m Weight: 55.12 lb

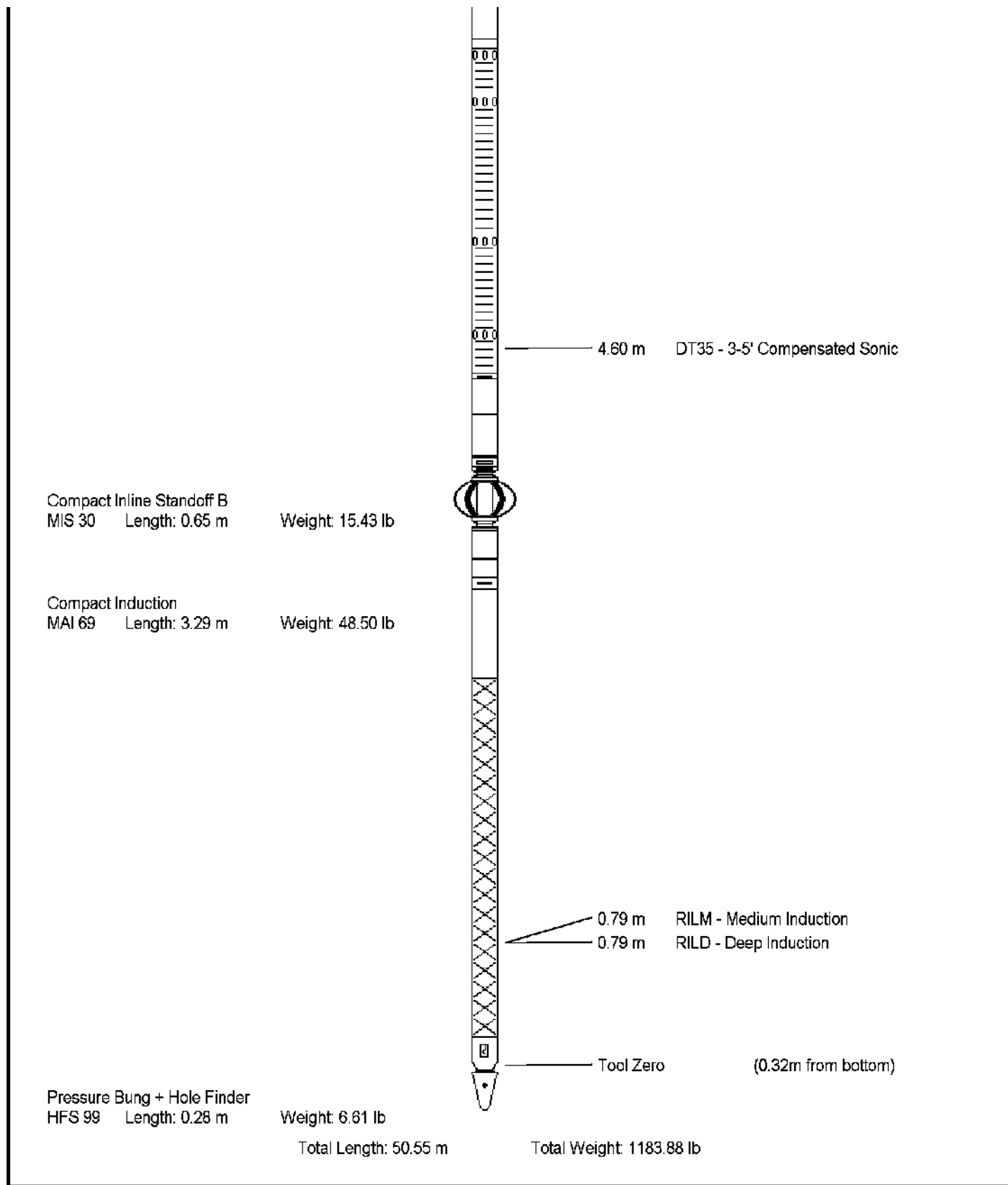
Compact Inline Standoff B
MIS 73 Length: 0.65 m Weight: 15.43 lb

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

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

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





COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	TUNA A-05A
FIELD	GIPPSLAND BASIN
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	3251.20	metres
Elevation Drill Floor	31.32	metres	Depth Driller	3257.00	metres
Elevation Ground Level	-59.40	metres	Depth Logger	3257.00	metres

