

# Reeves

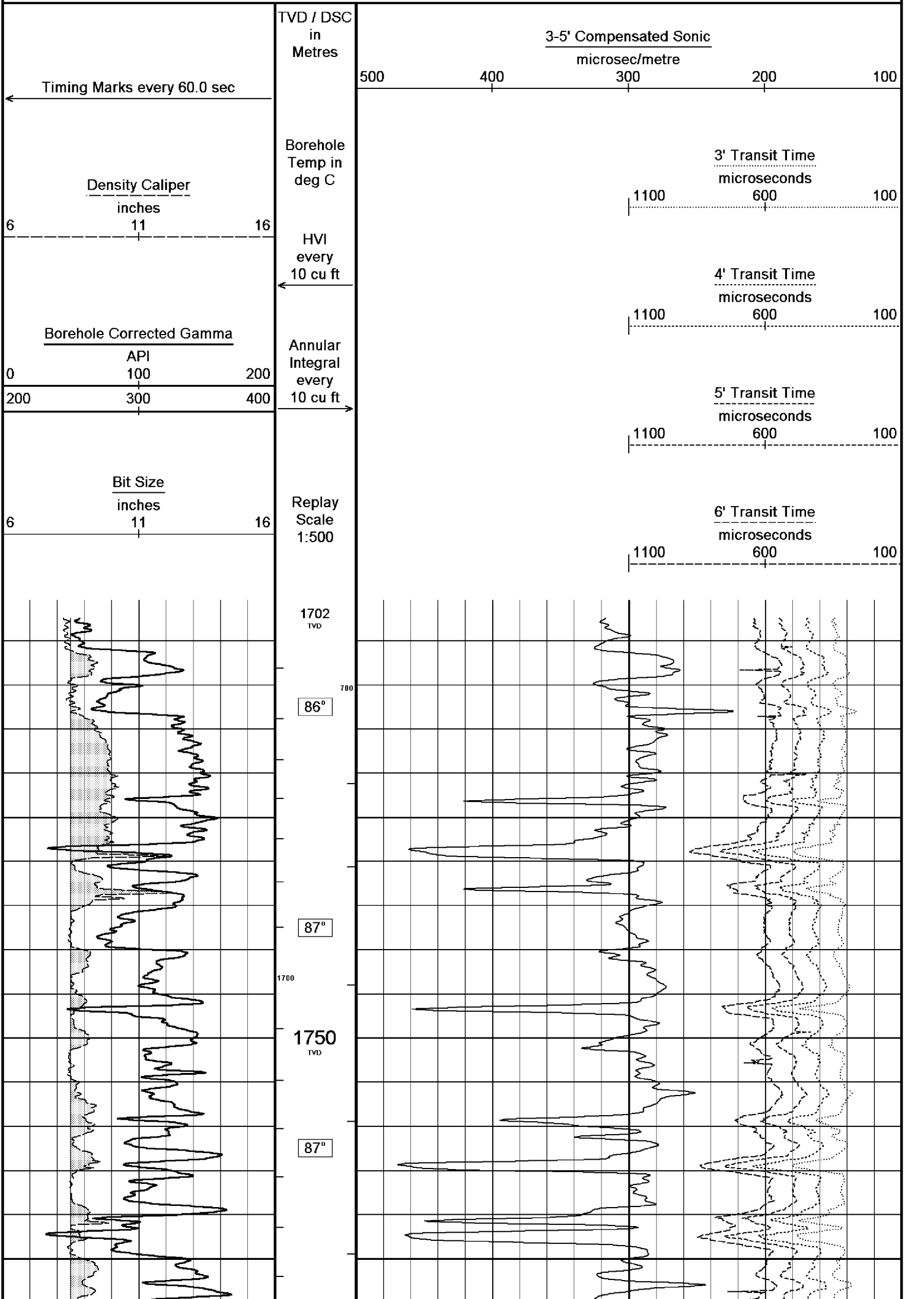
## Compact

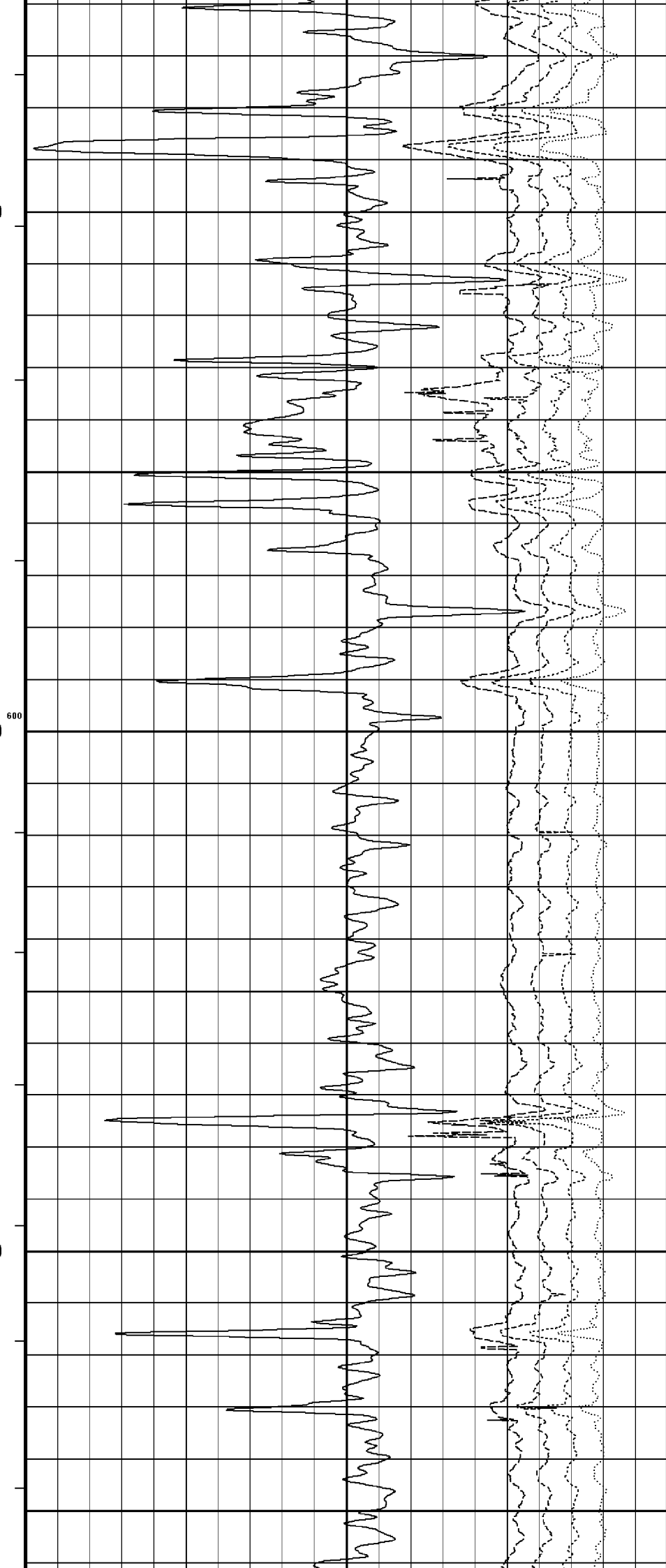
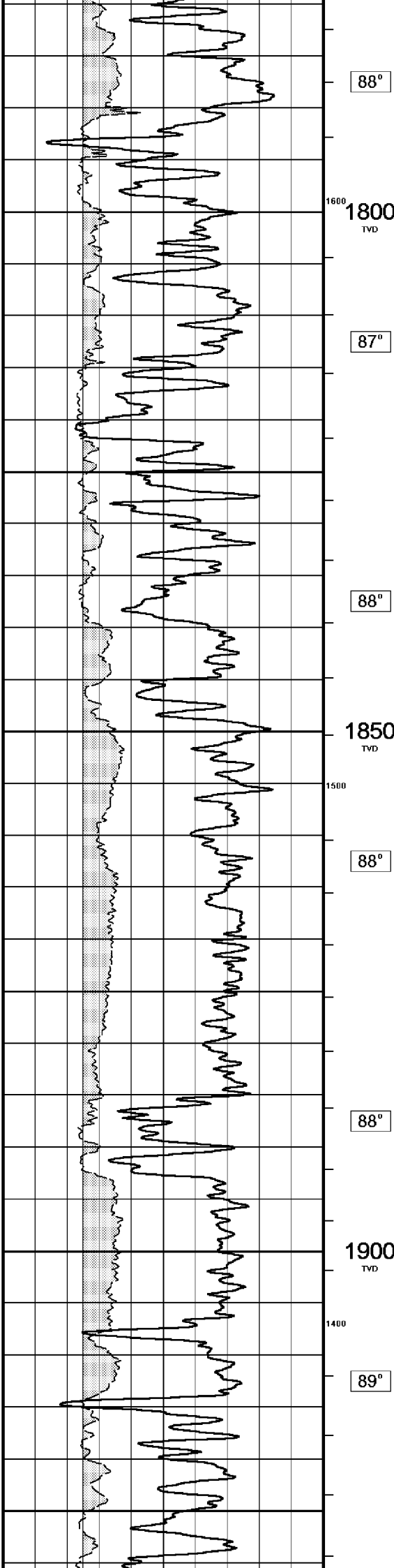
### COMPENSATED SONIC 1:500 TVD

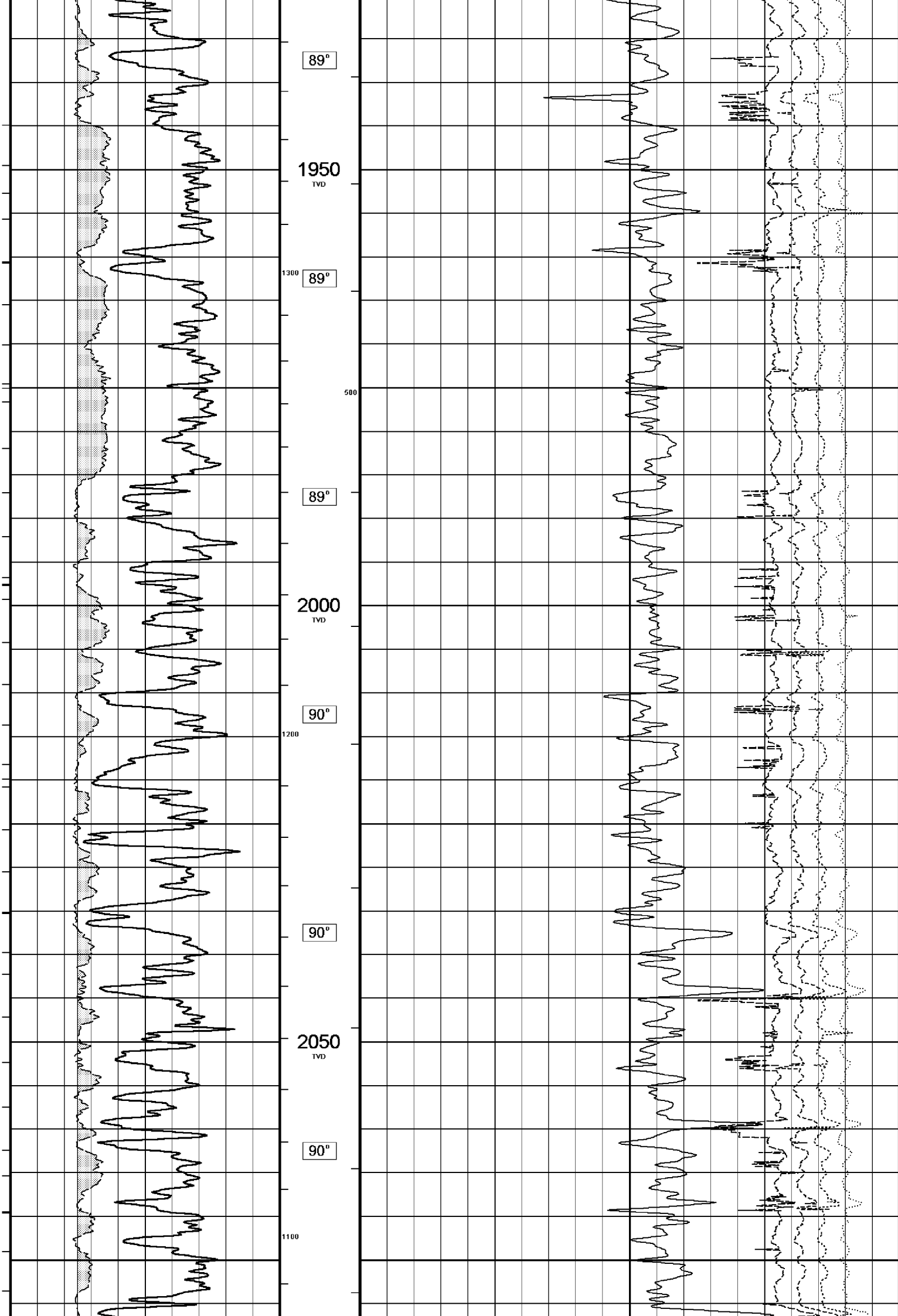
COMPANY	ESSO AUSTRALIA PTY. LTD.		
WELL	MARLIN A24A		
FIELD	TURRUM		
PROVINCE/COUNTY	BASS STRAIT		
COUNTRY/STATE	AUSTRALIA		
LOCATION	38Deg13'49.203"S, 148Deg13'15.554"E N 5767923.720 m, E 606865.170 m <b>FINAL PRINT</b>		
LSD	SEC	TWP	RGE
			Other Services DUAL LATEROLOG PHOTO DENSITY COMPENSATED NEUTRON
API Number	VIC/L11		
Permit Number	VIC/L11		
Permanent Datum MSL	, Elevation 0.0 metres		
Log Measured From RT@27.91 m	above Permanent Datum		
Drilling Measured From RT			
Date	5-MAY-2004		
Run Number	ONE		
Depth Driller	2676.90	metres	
Depth Logger	2672.90	metres	
First Reading	2672.50	metres	
Last Reading	1702.40	metres	
Casing Driller	633.50	metres	
Casing Logger			
Bit Size	8.50	inches	
Hole Fluid Type	KCL/GLY/PPH		
Density / Viscosity	10.15 lb/USg	30.00 CP	
PH / Fluid Loss	8.90	3.00 ml/30Min	
Sample Source	PRESS		
Rm @ Measured Temp	0.137 @ 25.0	ohm-m	
Rmf @ Measured Temp	0.098 @ 25.0	ohm-m	
Rmc @ Measured Temp	0.236 @ 25.0	ohm-m	
Source Rmf / Rmc	FLOW	FLOW	
Rm @ BHT	0.066 @ 75.0	ohm-m	
Time Since Circulation	36 HRS		
Max Recorded Temp	90.60	deg C	
Equipment Name	CWS/CML		
Equipment / Base	1	SALE	
Recorded By	G. MCMANUS, N. PATMAN		
Witnessed By	C. MENHENNIT, L. CULLEN		
Circ. Stopped	1400 4-MAY		

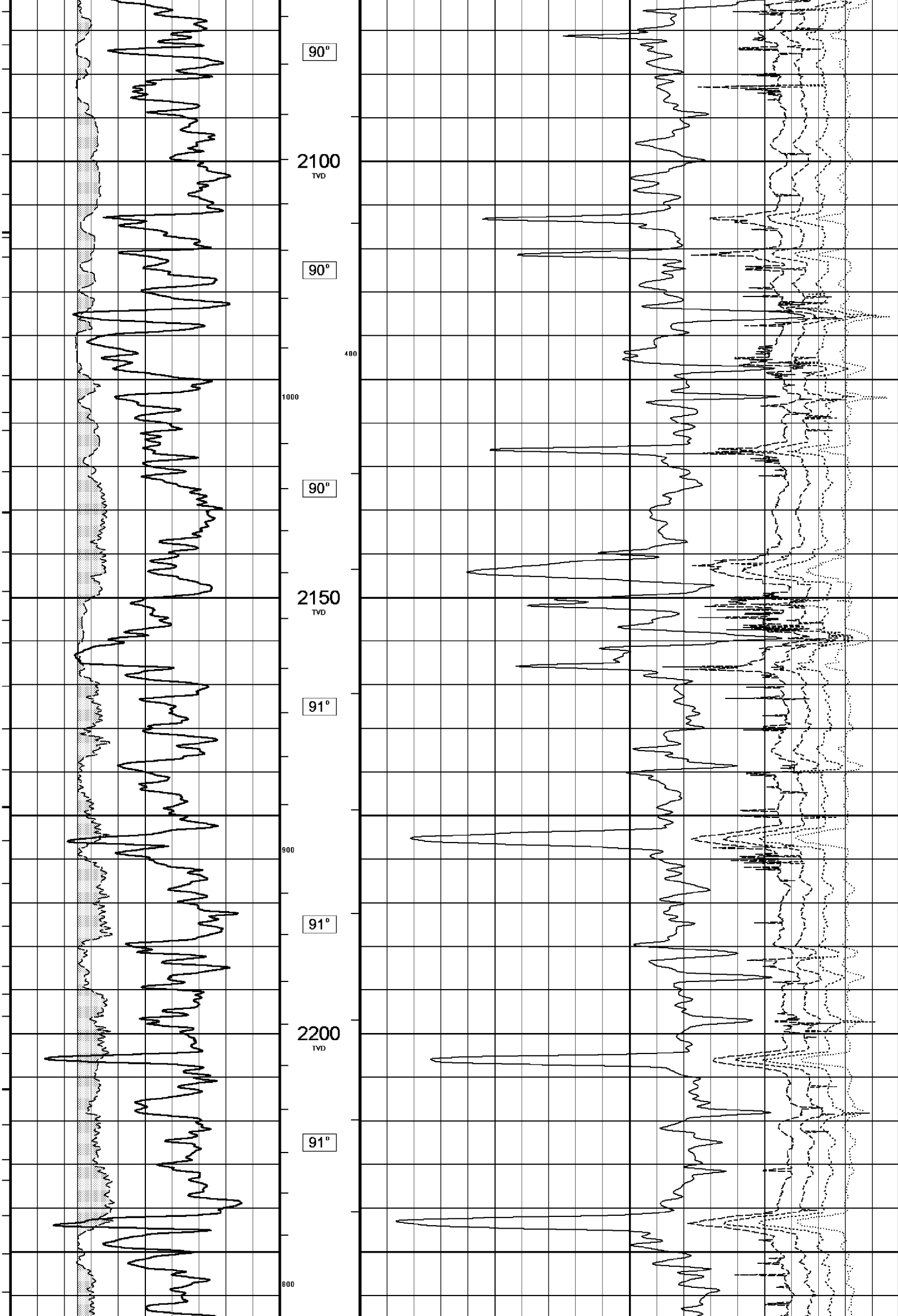
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		653.000		3275.000
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	13.375	0.000	653.000	0.00
L80	9.625	0.000	653.000	47.00
REMARKS				
***Miss Run - No data collected above 2008.5 m MD Due To Battery Failure***				
Rig Nabors 453				
5" SHUTTLE - MEMORY LOGGING				
5-MAY-04				
Crew: G McManus, N Patman, M Susa, B Goodwin				
Logs depth corrected -1.1m to correlate with Anadrill gamma log.				
AVERAGE INCLINATION: 38° FROM WINDOW TO TD				
MAXIMUM INCLINATION: 42.38° @ 3162.70 mMD				
MAXIMUM DOGLEG SERVERITY: 5.53°/30m @ 780.54				
MAXIMUM TEMPERATURE: 90.6°C @ 2654.30 mMD				

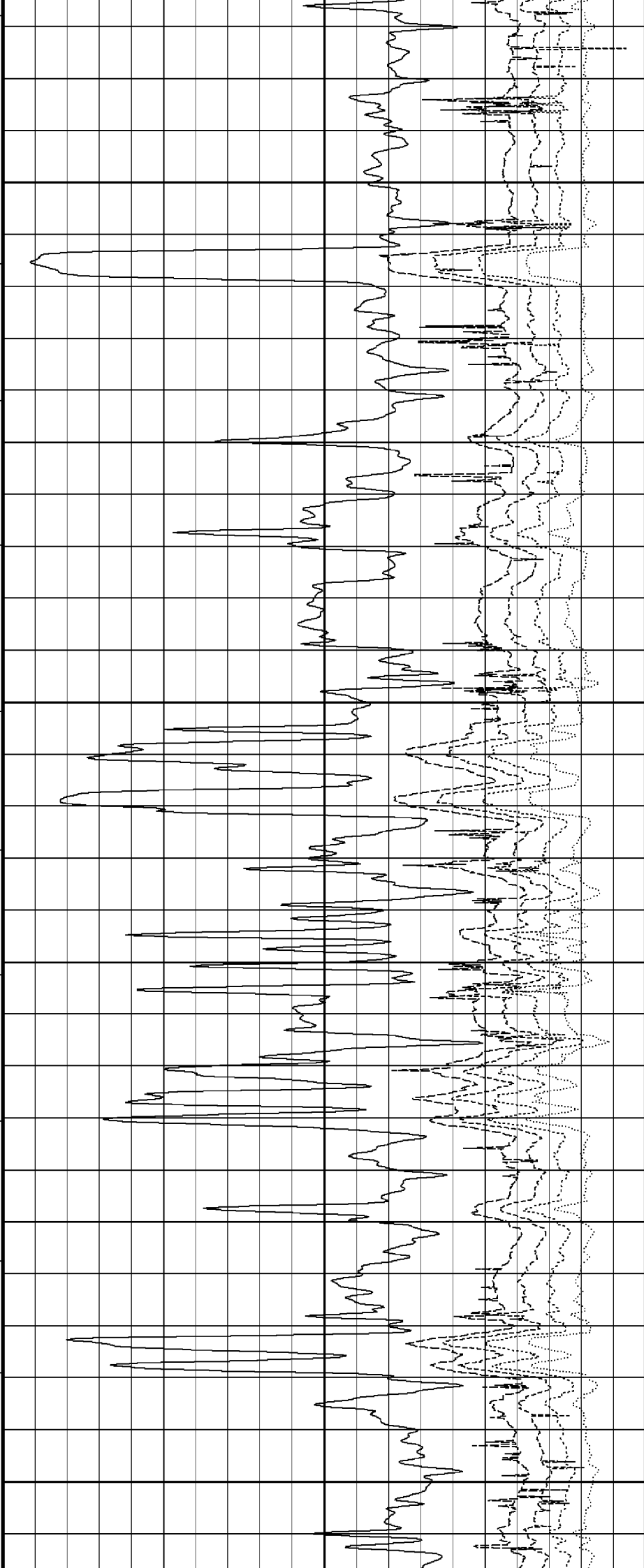
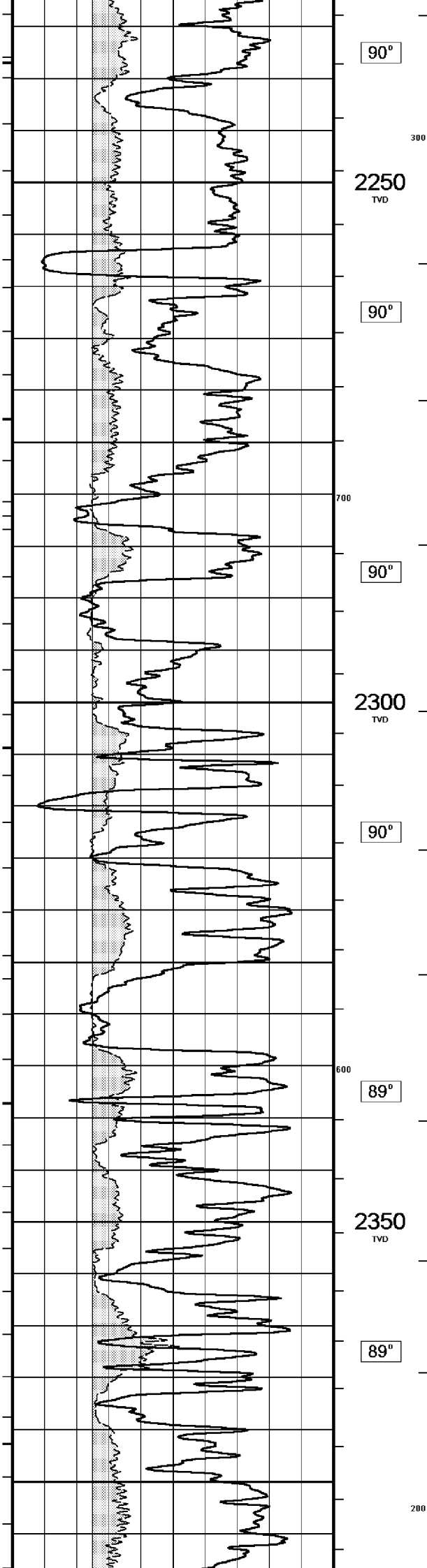
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

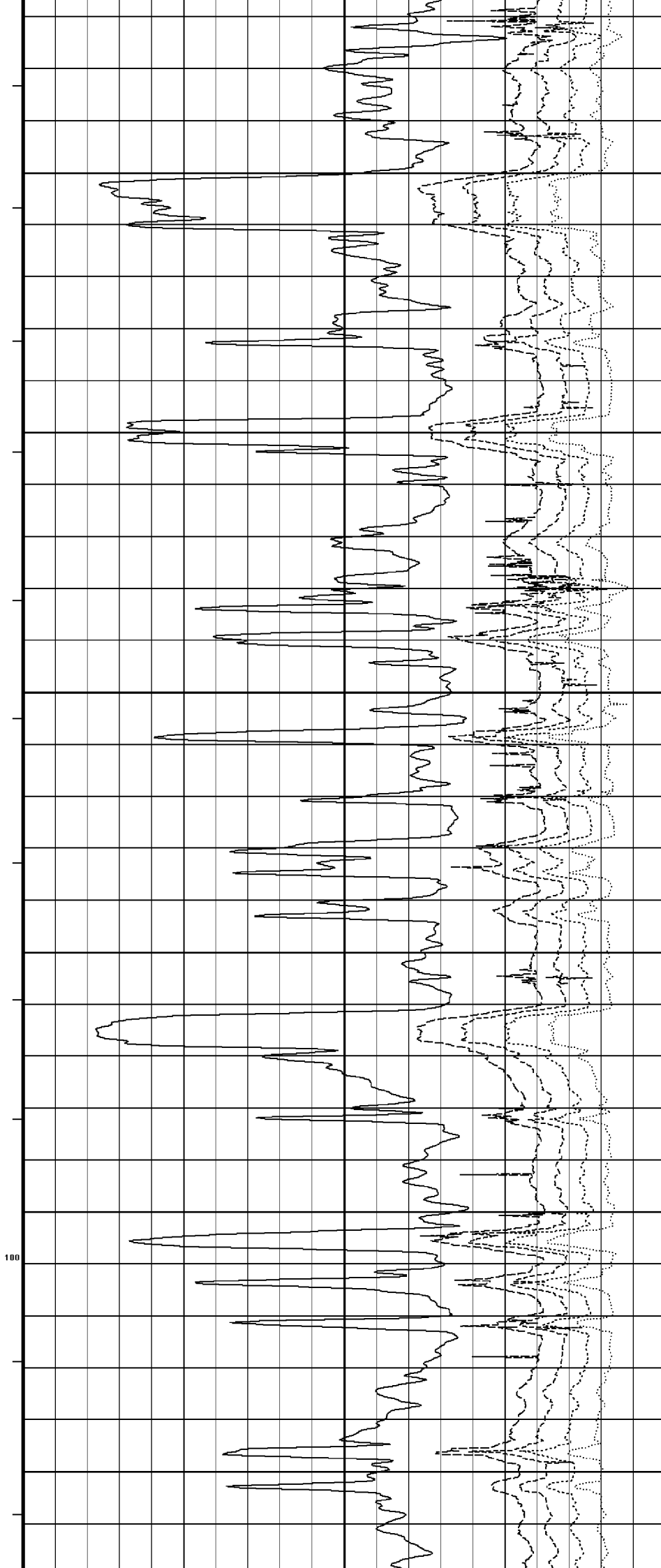
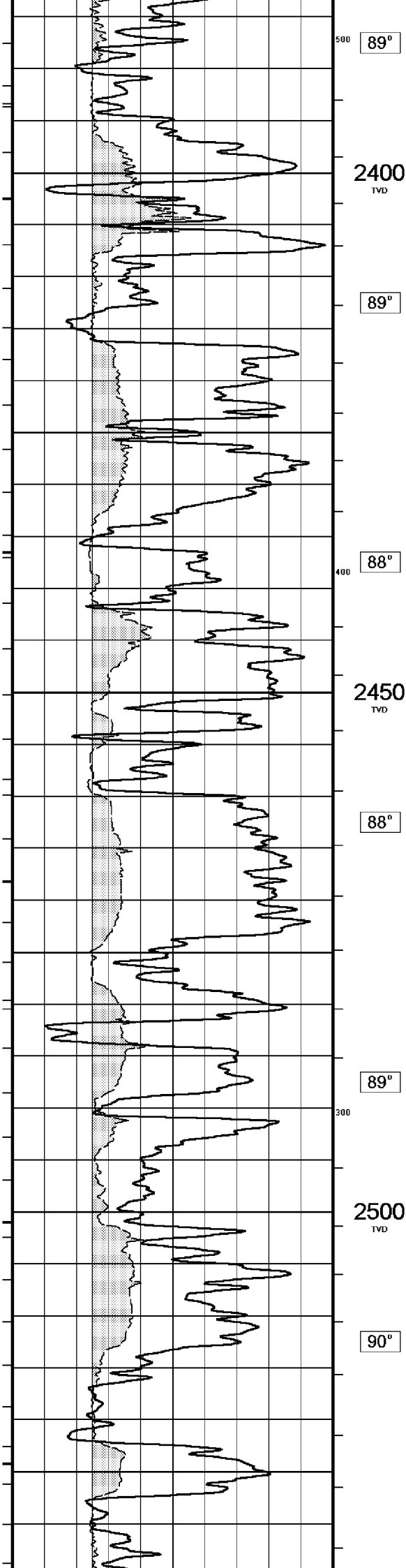


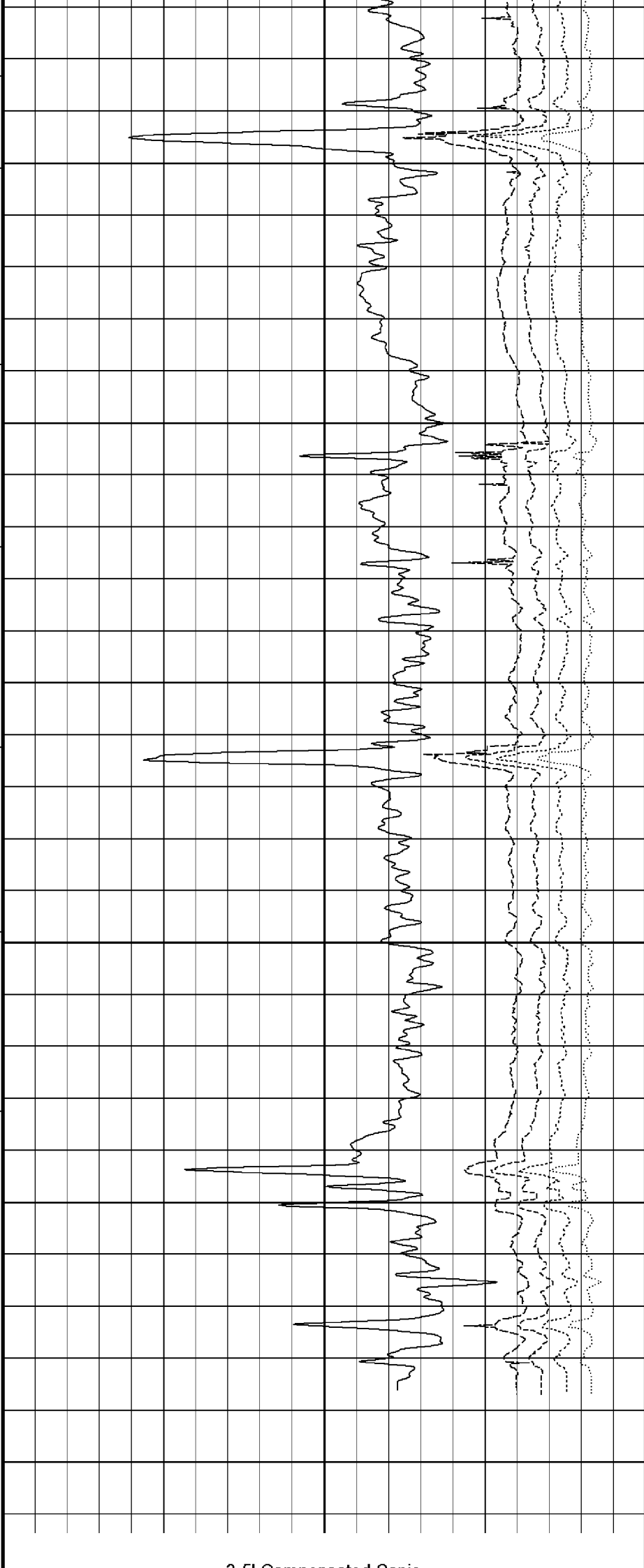
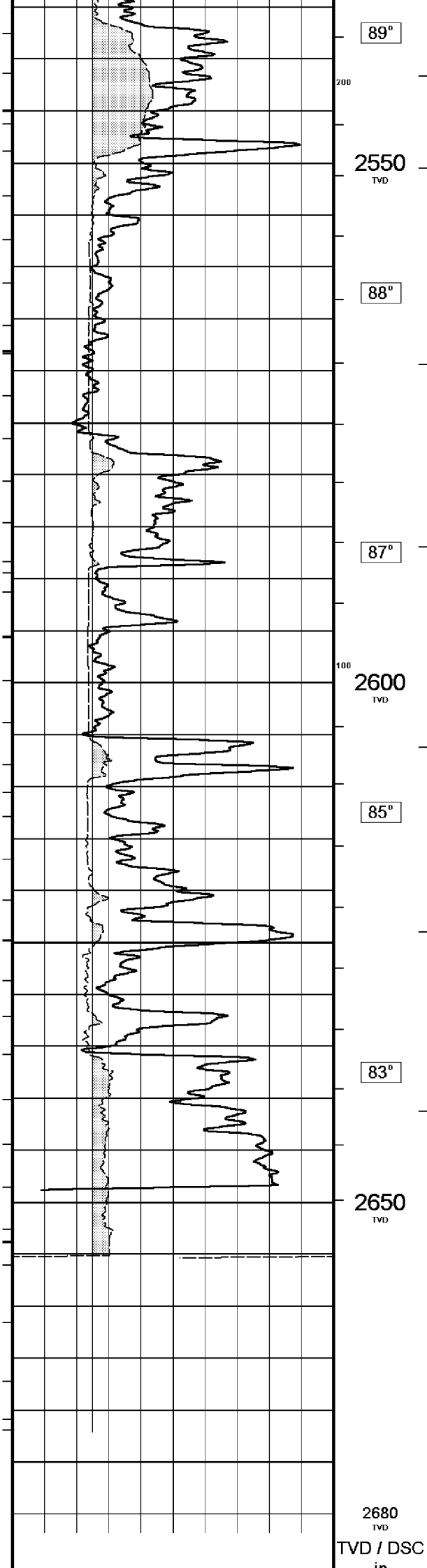




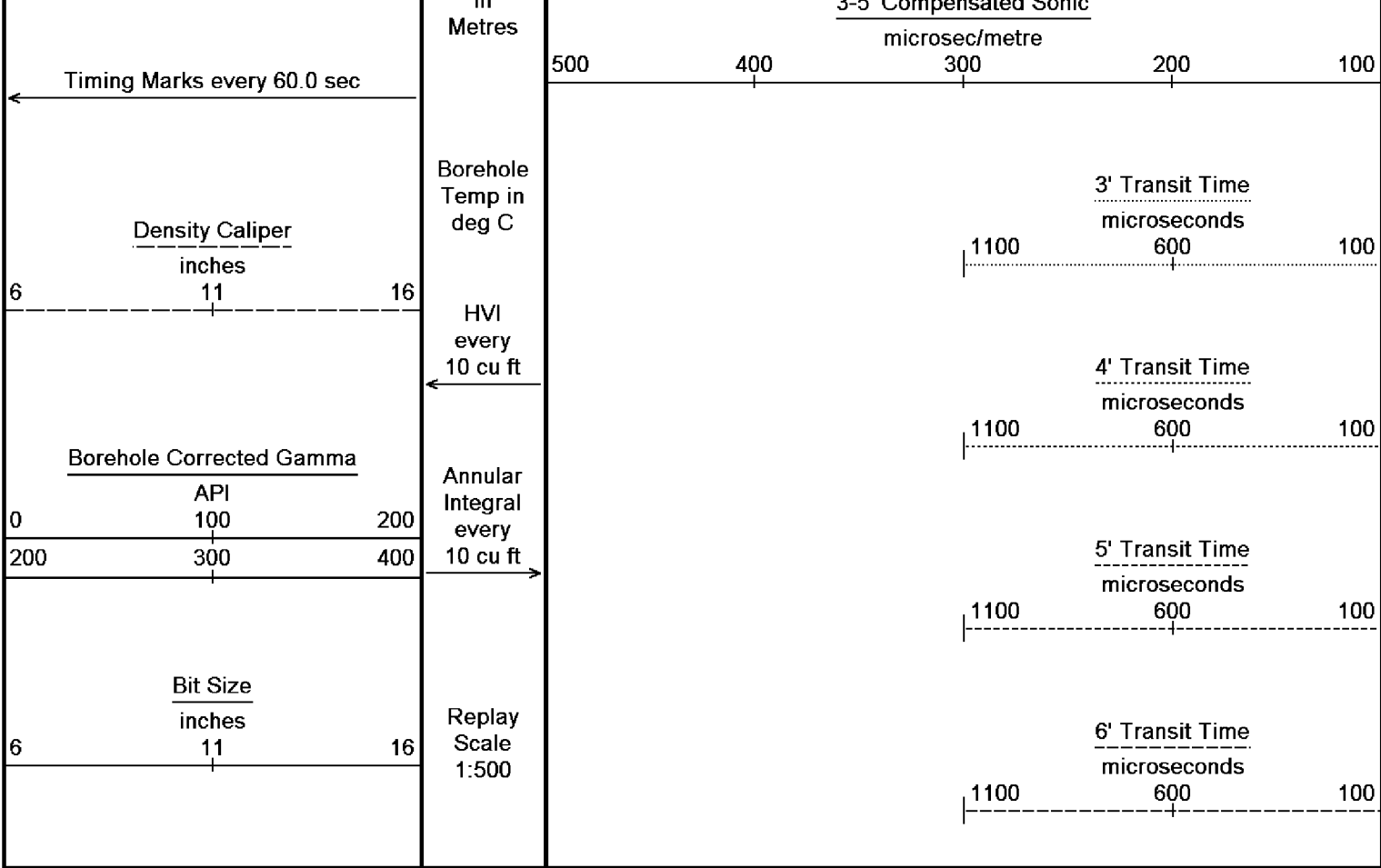












Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\Marlin\MLA A24a\Final Data Presentations\...MLA A24A MAIN LOG MSS.dta  
 System Configuration Dates: Logged 09-SEP-2003: Processed 09-SEP-2003: Plotted 25-JUN-2003:

Plotted on 24-SEP-2004 13:01  
 Recorded on 06-MAY-2004 16:05

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MAIN LOG 1:500

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**BEFORE SURVEY CALIBRATION**  
 C:\Marlin\MLA A24a\Final Data Presentations\Black & White Prints\MLA A24A MAIN LOG MSS.dta

General Constants All 000		
General Parameters		
Mud Resistivity	0.119	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	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	7.000	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

Gamma Calibration MCG 098		Field Calibration on 3-MAY-2004 11:25
	Measured	Calibrated (API)
Background	8	5
Calibrator (Gross)	1371	914
Calibrator (Net)	1363	909

Gamma Constants MCG 098		
Gamma Calibrator Number	60	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

## High Resolution Temperature Calibration MCG 098

Field Calibration on 3-MAY-2004,11:21

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

## High Resolution Temperature Constants MCG 098

Pre-filter Length 11

## Caliper Calibration MPD 083

Base Calibration on 20-APR-2004 12:25

Field Calibration on 3-MAY-2004 10:29

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13792	4.01
2	23424	5.99
3	33363	7.98
4	43344	9.94
5	54608	12.01
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	7.96	7.98

## Sonic Constants MSS 047

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
Initial Discriminator Level	0.0000	mVolts

## 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	
Semblance Level	N/A	
Semblance Window Width	N/A	micro-sec
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A

## DOWNHOLE EQUIPMENT

C:\Marlin\MLA A24a\Final Data Presentations\Black &amp; White Prints\MLA A24A MAIN LOG MSS.dta

Compact Swivel Head Adaptor  
SHA 63 Length: 0.83 m Weight: 26.5 lb



Compact Knuckle Joint  
SKJ 49    Length: 0.66 m    Weight: 24.3 lb

Compact Battery Sub.  
MBS 99    Length: 4.34 m    Weight: 88.2 lb

Compact Inline Standoff B  
MIS 141    Length: 0.65 m    Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.  
MBE 18    Length: 3.76 m    Weight: 94.8 lb

Compact Inline Standoff B  
MIS 127    Length: 0.65 m    Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.  
MBE 19    Length: 3.76 m    Weight: 94.8 lb

Compact Knuckle Joint  
SKJ 110    Length: 0.66 m    Weight: 24.3 lb

Thrid Bridle MBE 20  
MLK 111    Length: 3.76 m    Weight: 94.8 lb

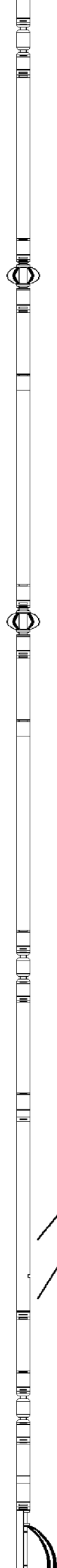
Compact Gamma  
MCG 98    Length: 2.65 m    Weight: 63.9 lb

Compact Memory Sub.  
MMS 24    Length: 0.95 m    Weight: 22.0 lb

Compact Knuckle Joint  
SKJ 48    Length: 0.66 m    Weight: 24.3 lb

Compact Swivel Head Adaptor  
SHA 28    Length: 0.83 m    Weight: 26.5 lb

Compact Inline Bowspring A  
MIS 95    Length: 1.74 m    Weight: 33.1 lb



32.22 m    GGCE - Borehole Corrected Gamma  
31.33 m    CGXT - MCG External Temperature

Compact Neutron  
MDN 85    Length: 1.53 m    Weight: 50.7 lb

Compact Density/Caliper  
MPD 83    Length: 2.92 m    Weight: 90.4 lb

Compact Inline Bowspring A  
MIS 94    Length: 1.74 m    Weight: 33.1 lb

Compact Swivel Head Adaptor  
SHA 71    Length: 0.83 m    Weight: 26.5 lb

Compact Knuckle Joint  
SKJ 44    Length: 0.66 m    Weight: 24.3 lb

Compact Inline Standoff B  
MIS 128    Length: 0.65 m    Weight: 15.4 lb

Compact Upper Guard Sub.  
MUG 5    Length: 2.74 m    Weight: 68.3 lb

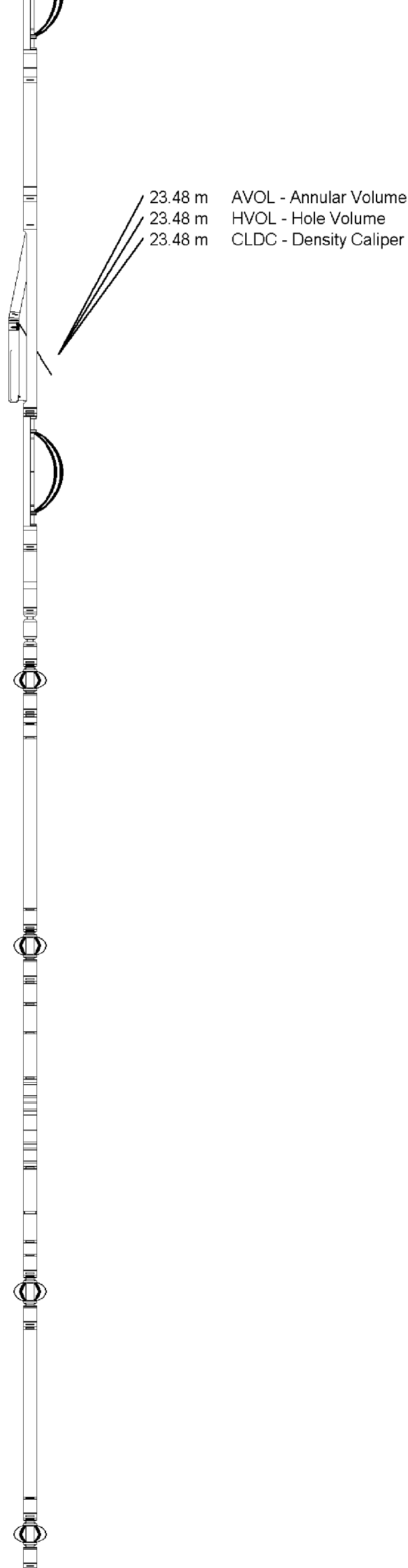
Compact Inline Standoff B  
MIS 135    Length: 0.65 m    Weight: 15.4 lb

Compact Laterolog Electrode Sub.  
MLE 17    Length: 3.76 m    Weight: 92.6 lb

Compact Inline Standoff B  
MIS 31    Length: 0.65 m    Weight: 15.4 lb

Compact Lower Guard Sub.  
MLG 7    Length: 2.44 m    Weight: 55.1 lb

Compact Inline Standoff B  
MIS 140    Length: 0.65 m    Weight: 15.4 lb



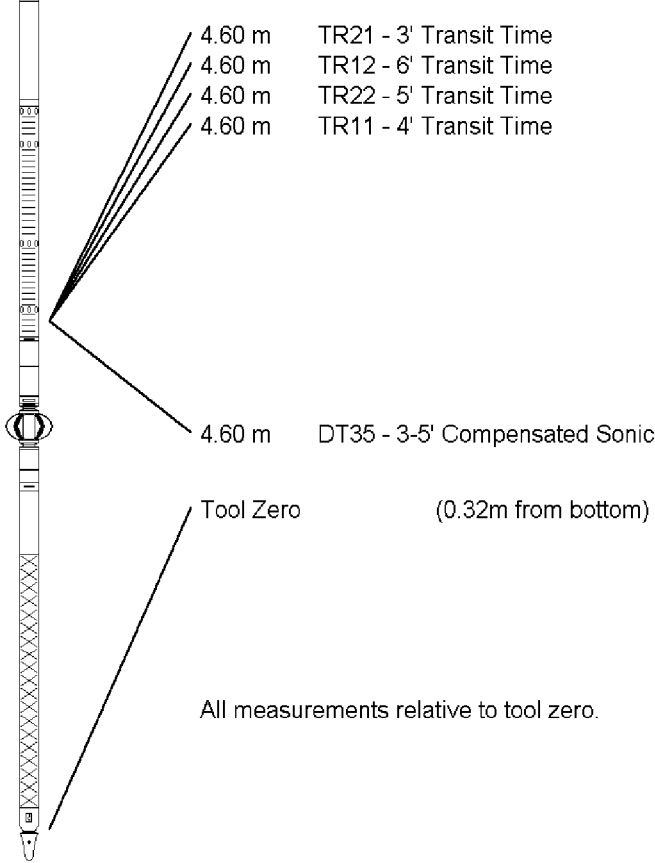
Compact Sonic  
MSS 47    Length: 3.82 m    Weight: 72.8 lb

Compact Inline Standoff B  
MIS 73    Length: 0.65 m    Weight: 15.4 lb

Compact Induction  
MAI 39    Length: 3.29 m    Weight: 48.5 lb

Pressure Bung + Hole Finder  
HFS 3    Length: 0.28 m    Weight: 6.6 lb

Total    Length: 53.18 m    Weight: 1294.1 lb



COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	MARLIN A24A
FIELD	TURRUM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	2672.50	metres
Elevation Drill Floor    27.91	metres	Depth Driller	2676.90	metres
Elevation Ground Level    -59.00	metres	Depth Logger	2672.90	metres



COMPENSATED SONIC  
1:500 TVD