



Compact

COMPENSATED SONIC

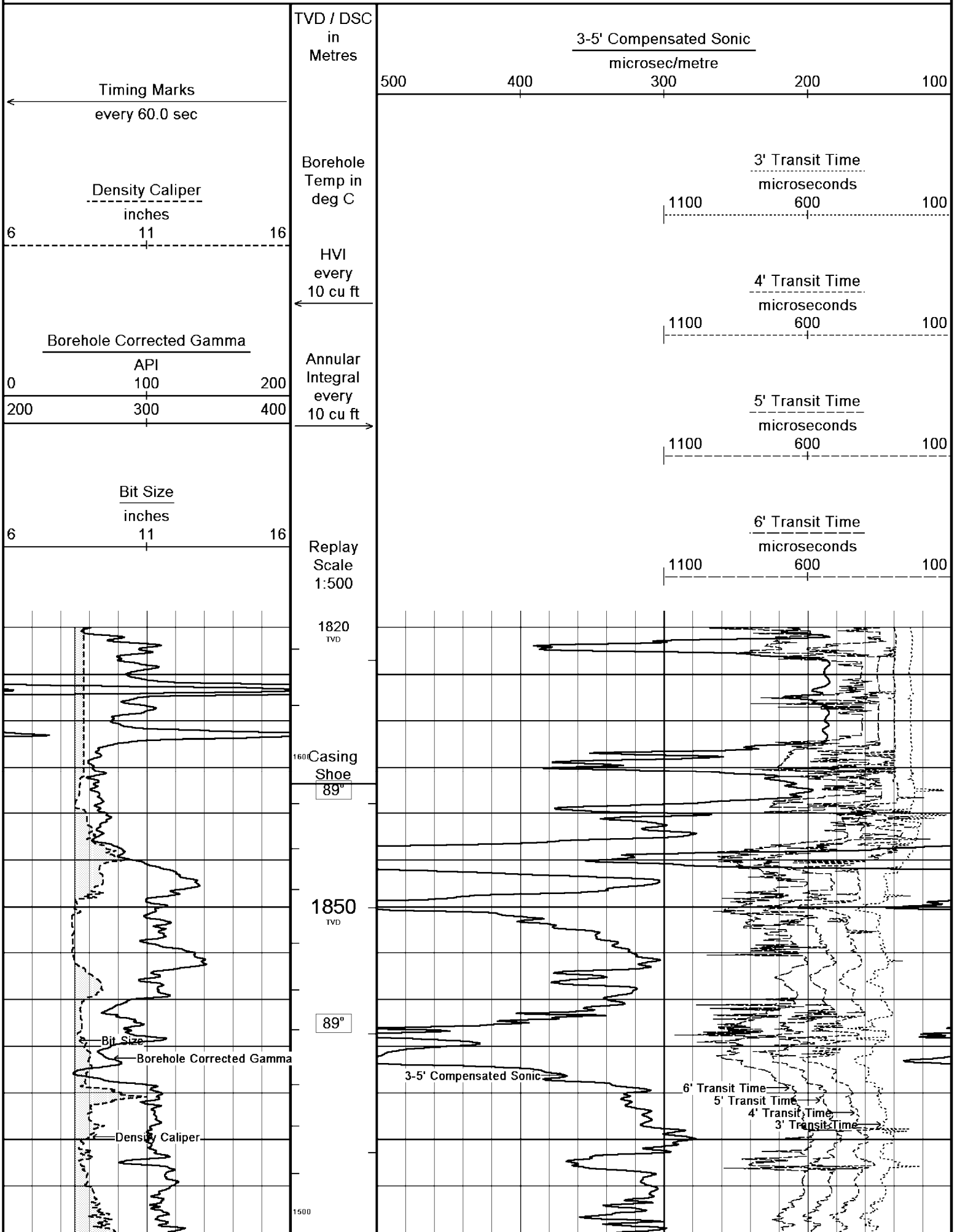
1:500 TVD

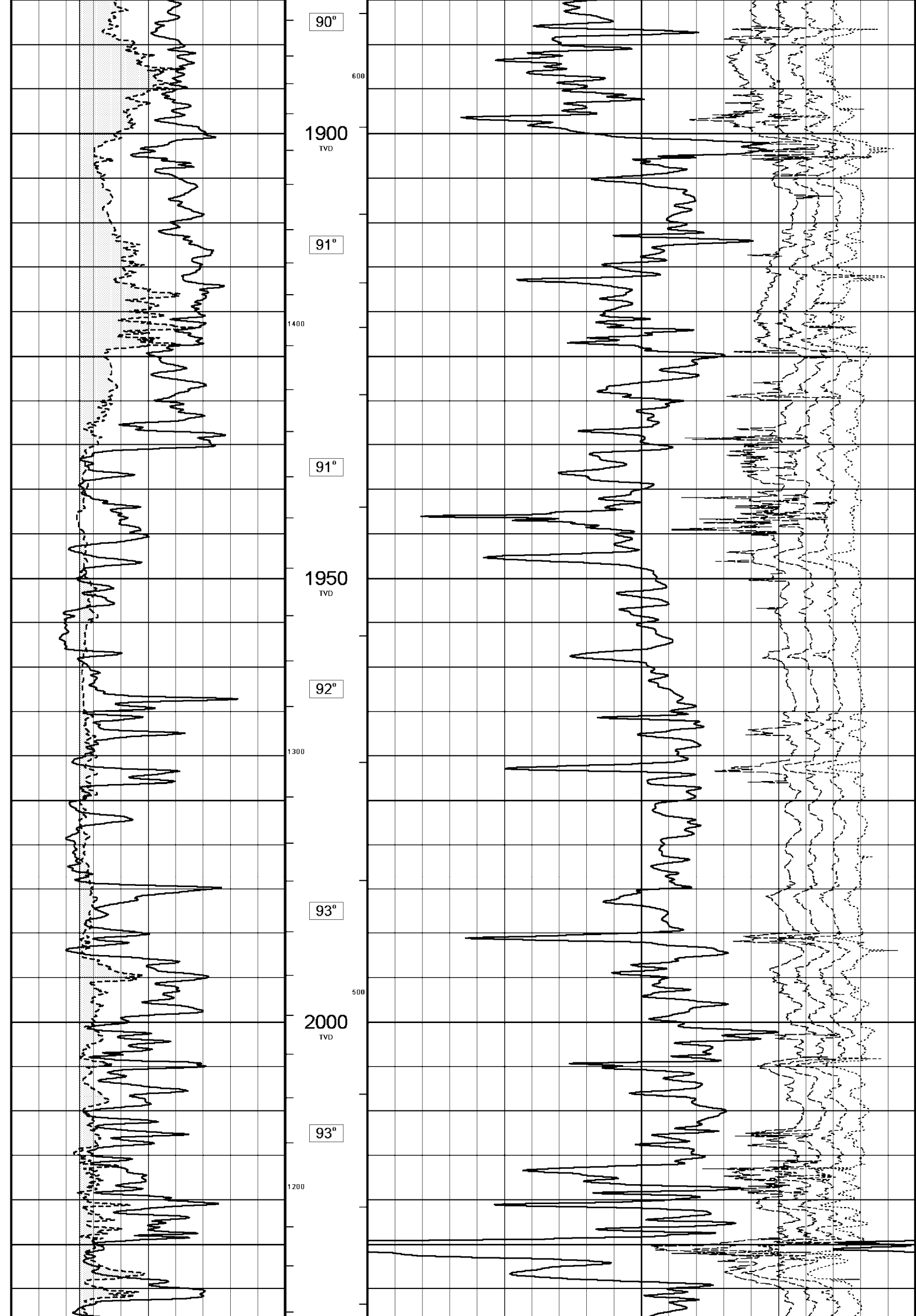
COMPANY				ESSO AUSTRALIA PTY LTD			
WELL				BREAM A10A			
FIELD				BREAM			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				S 38 29 58.824, E 147 46 19.976			
				N 5738460.340 m, E 567336.310 m			
				FINAL PRINT			
LSD	SEC	TWP	RGE	Other Services			
				DUAL LATEROLOG			
API Number				PHOTO DENSITY			
Permit Number				COMPENSATED NEUTRON			
Permanent Datum MSL				, Elevation 0.0 metres		Elevations:	
Log Measured From RT @ 32.82m				above Permanent Datum		KB	metres
Drilling Measured From RT						DF	32.82 metres
						GL	-59.40 metres
Date	16-MAY-2005						
Run Number	ONE						
Depth Driller	2717.18			metres			
Depth Logger	2212.30			metres			
First Reading	2707.80			metres			
Last Reading	1836.80			metres			
Casing Driller	1836.38			metres			
Casing Logger	1836.80			metres			
Bit Size	8.50			inches			
Hole Fluid Type	KC/POLY/GYL						
Density / Viscosity	10.10 lb/USg			30.00 cP			
PH / Fluid Loss	9.00			3.00 ml/30Min			
Sample Source	FLOWLINE						
Rm @ Measured Temp	0.134 @ 25.0			ohm-m			
Rmf @ Measured Temp	0.103 @ 25.0			ohm-m			
Rmc @ Measured Temp	0.236 @ 25.0			ohm-m			
Source Rmf / Rmc	PRESS			PRESS			
Rm @ BHT	0.053 @ 97.3			ohm-m			
Time Since Circulation	28.5 HRS						
Max Recorded Temp	104.10			deg C			
Equipment Name	CWS/CML						
Equipment / Base	1			SALE			
Recorded By	G. MCMANUS, B. MOSS						
Witnessed By	TREVOR LOBO						
CIRC STOPPED	21:00 14-MAY						

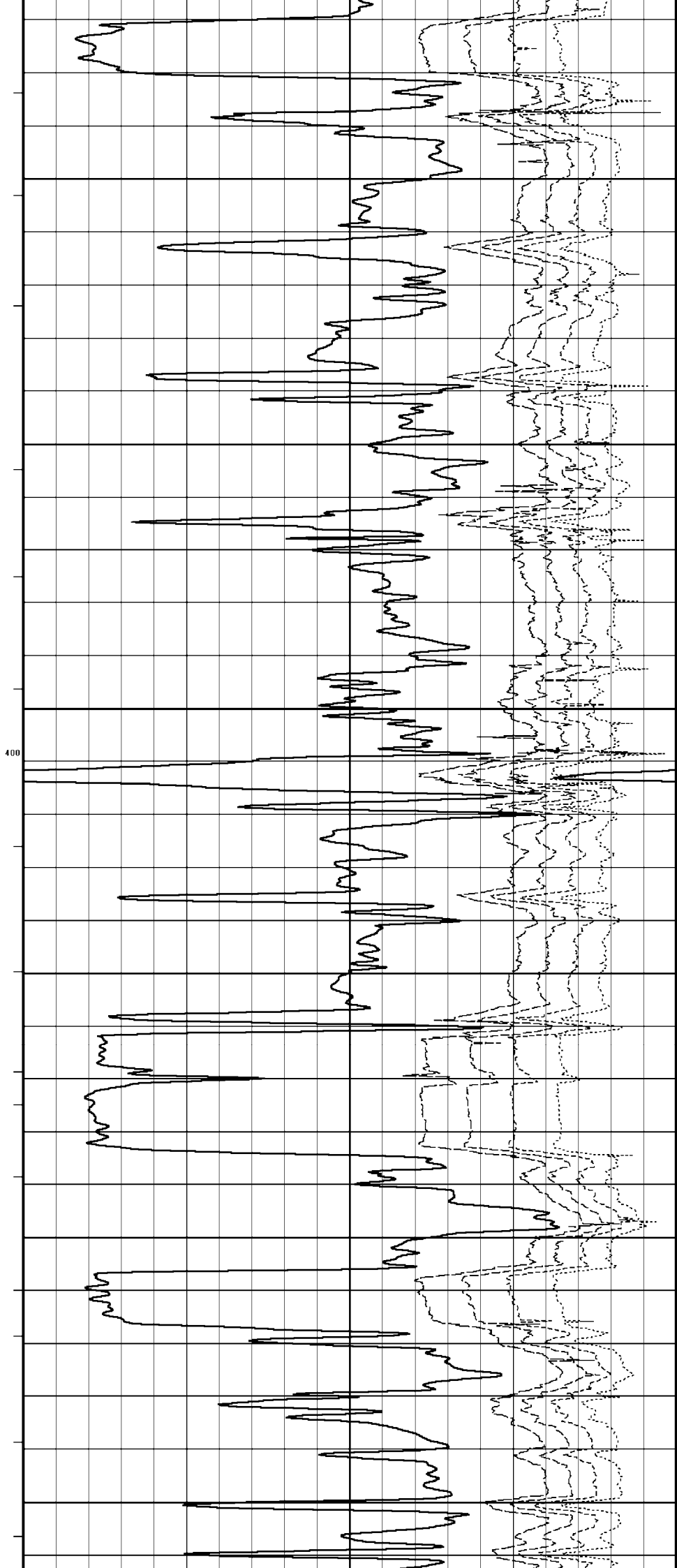
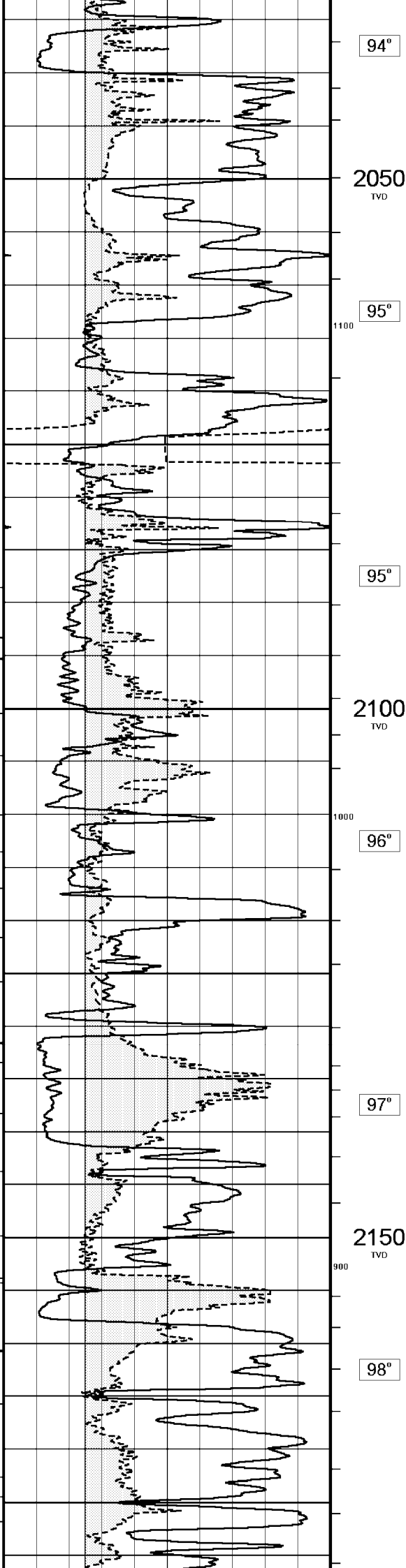
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		2258.80		3379.50
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	921.00	54.50
L-80	9.625	0.00	2258.80	47.00

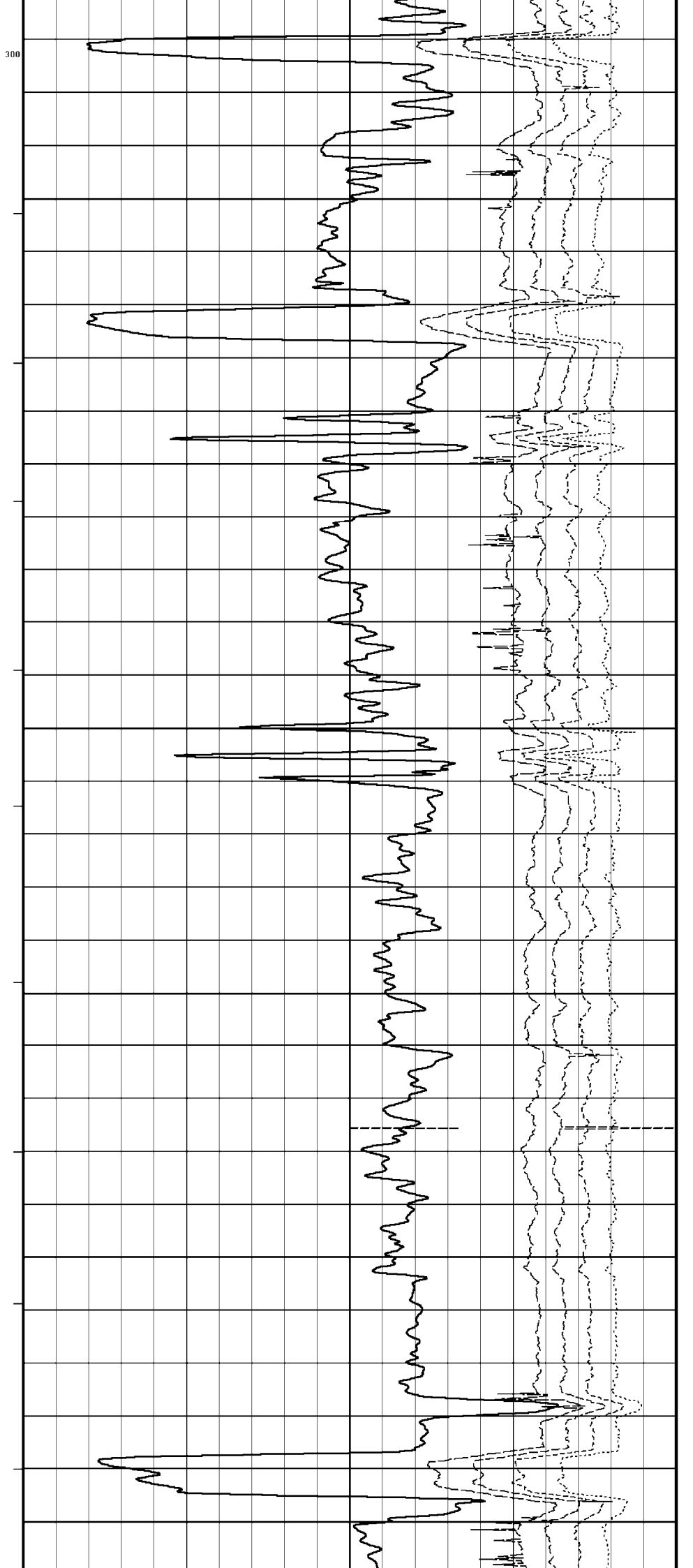
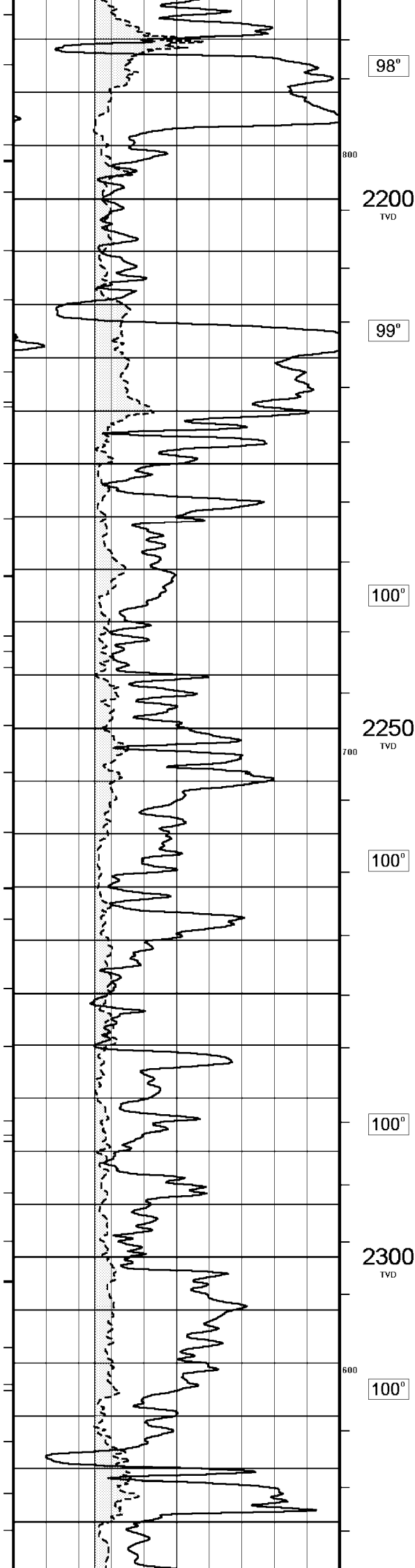
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: G MCMANUS , R TENCH , B MOSS , K LUCIEER.
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.
DENSITY CALIPER CLOSED BETWEEN 2594.50m MD AND 2598.2m MD DUE TO THE INDUCTION SONDE DETECTING A PIECE OF BRASS DEBRIS IN THE WELL. DENSITY - NEUTRON DATA IN THIS INTERVAL WILL BE INACCURATE.
MAX. TEMPERATURE: 104.1 DEG C AT 3331.10m MD MAX. INCLINATION: 47.28 DEG AT 2315.54m MD MAX. DOGLEG SERVERITY: 4.68 DEG/30m AT 2775.31m MD DEPLOYMENT ANGLE: 24 DEG
HVOL: 1620 FT^3 AVOL: 865 FT^3

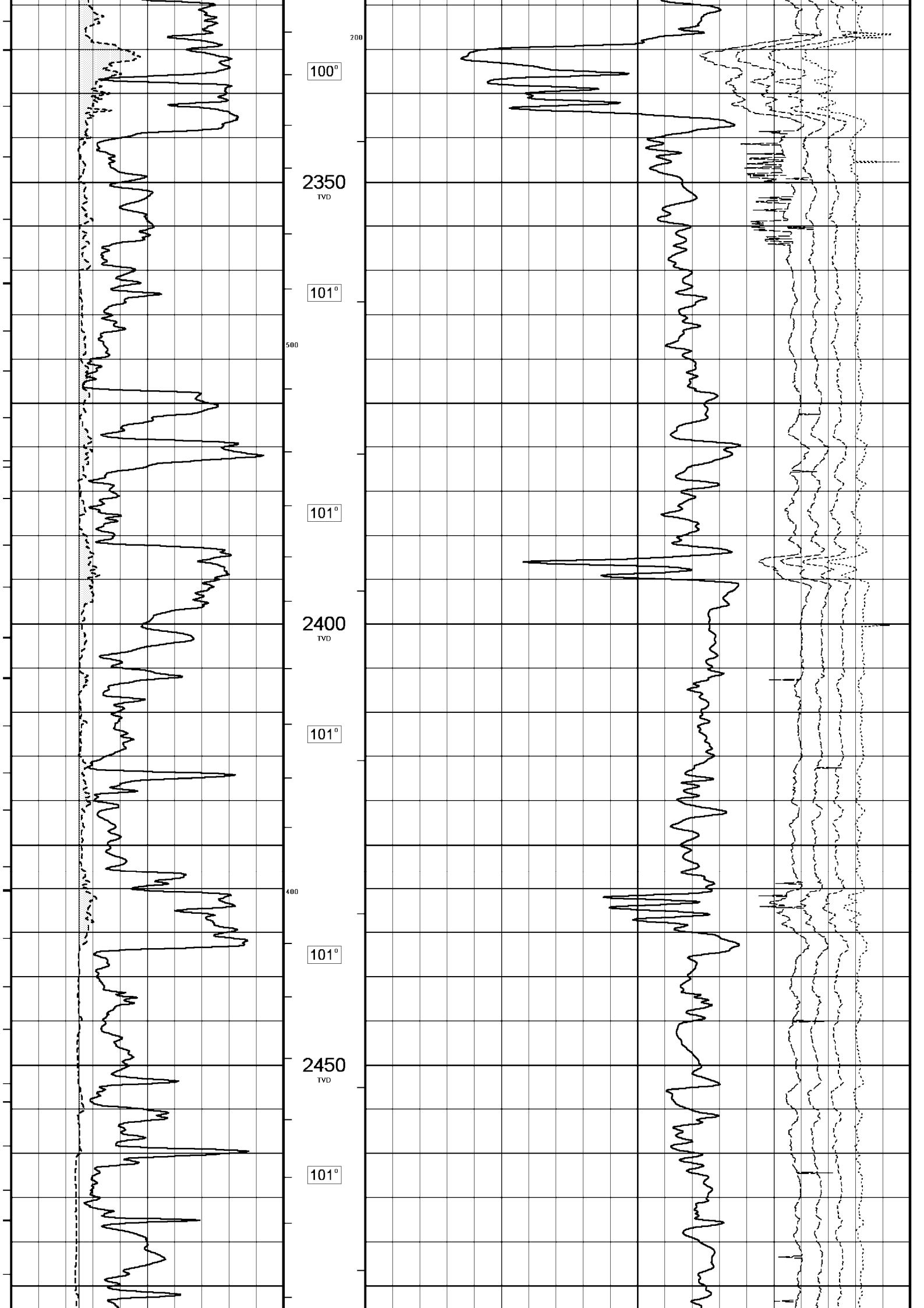
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for

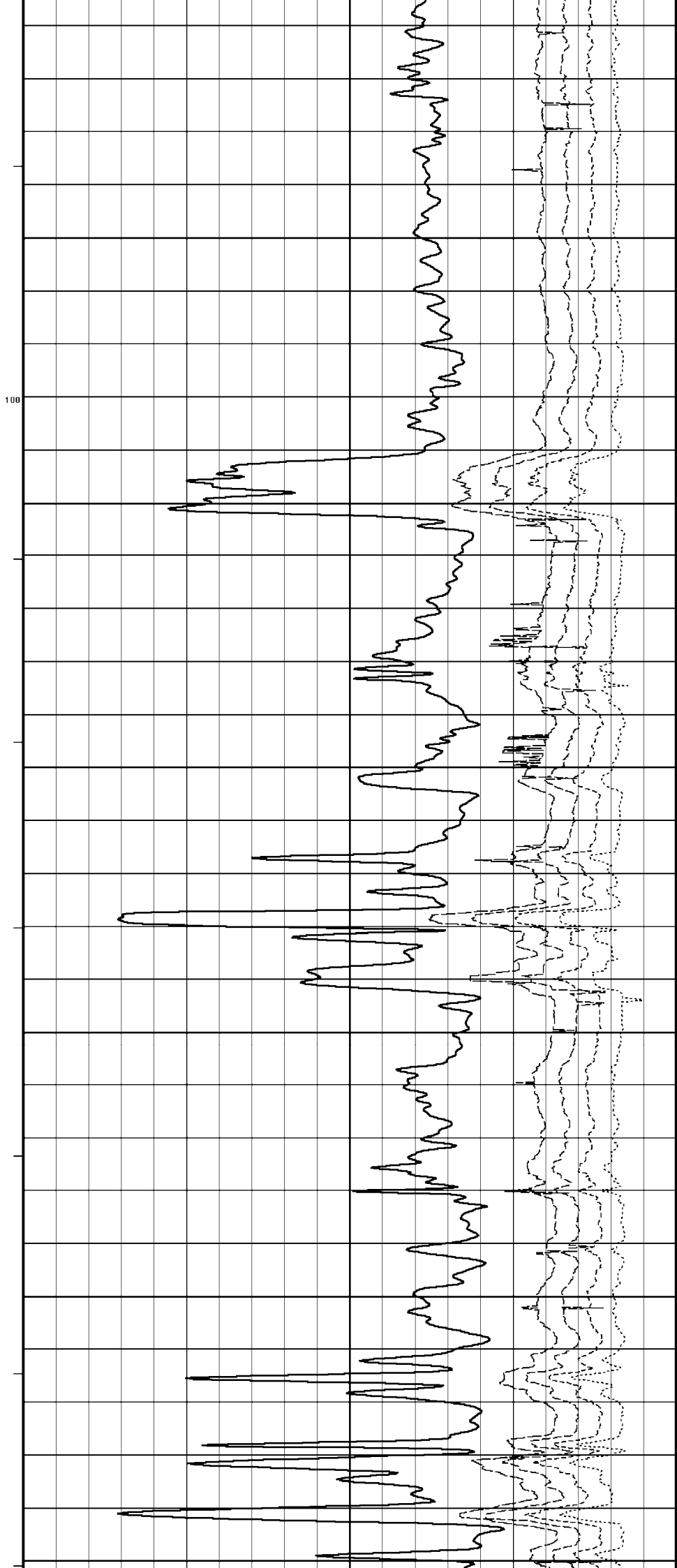
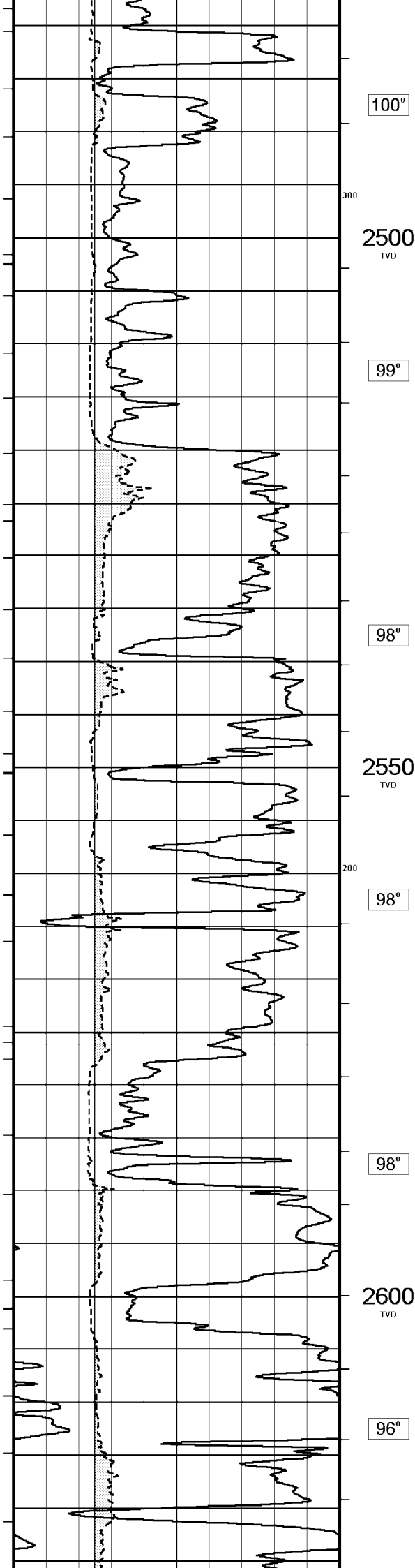


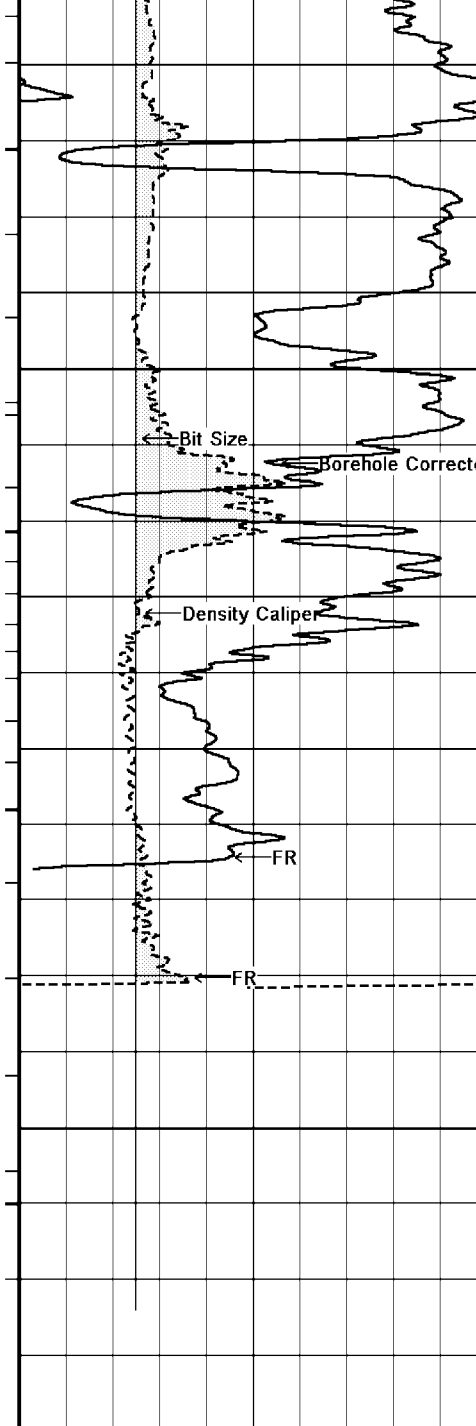




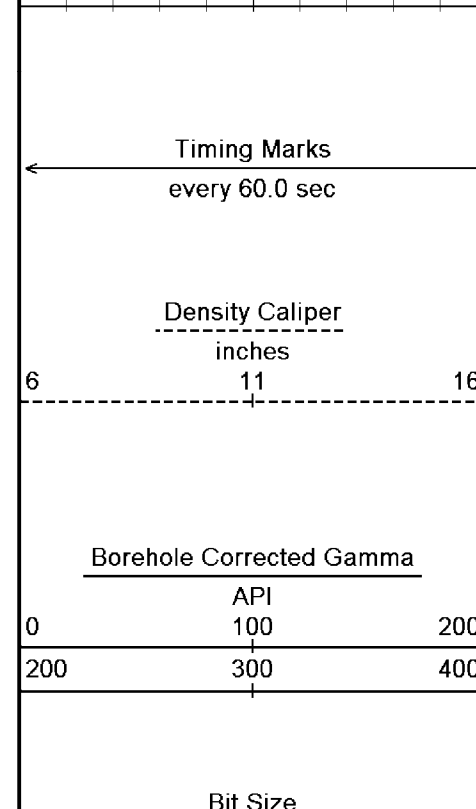
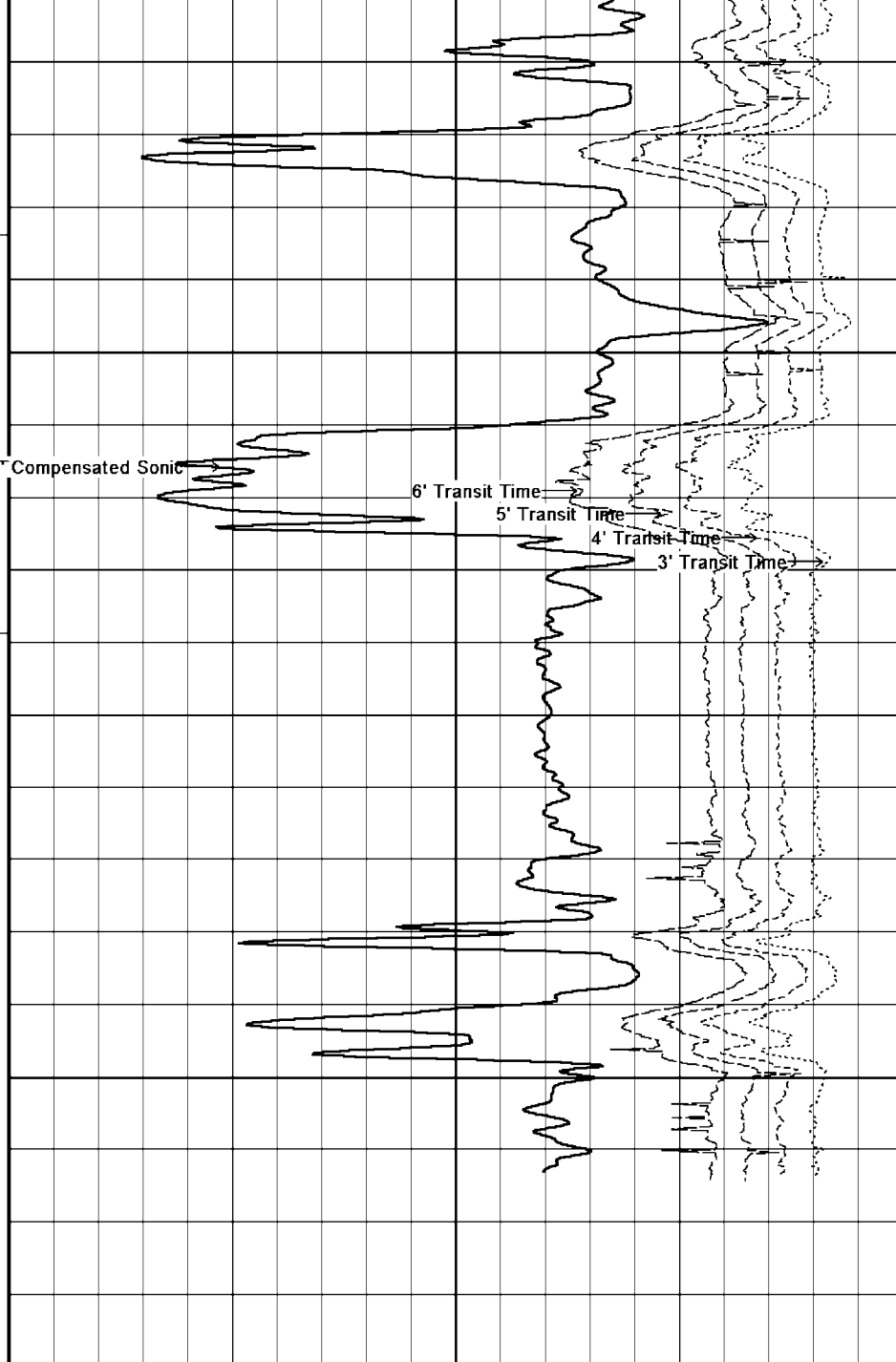




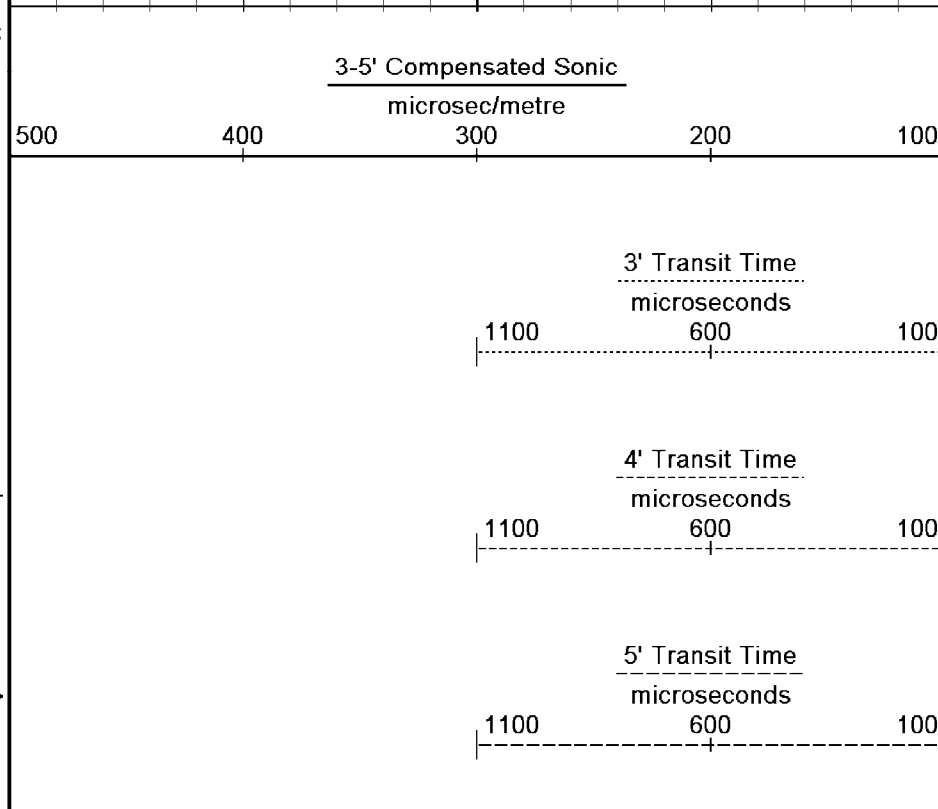




100
100°
2650
TVD
102°
2700
TVD
2719
TVD



2719
TVD / DSC
in
Metres
Borehole
Temp in
deg C
HVI
every
10 cu ft
Annular
Integral
every
10 cu ft



6

11

16

inches

11

Replay

Scale

1:500

6' Transit Time

microseconds

1100

600

100

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 15-AUG-2005 11:55

Filename: C:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_MSS_Remake_2JUNE05.dta

Recorded on 16-MAY-2005 12:18

System Configuration Dates: Logged : Processed 23-AUG-2004: Plotted 17-JUN-2004:

↑

MAIN LOG 1:500

↑

BEFORE SURVEY CALIBRATION

C:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_MSS_Remake_2JUNE05.dta

General Constants All 000		
General Parameters		
Mud Resistivity	0.134	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	

High Resolution Temperature Calibration MCG 098			Field Calibration on 8-MAY-2005,02:39
	Measured	Calibrated(Deg C)	
Lower	0.00	0.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG 098	
Pre-filter Length	11

Gamma Calibration MCG 098			Field Calibration on 8-MAY-2005 02:39
	Measured	Calibrated (API)	
Background	9	6	
Calibrator (Gross)	1373	915	
Calibrator (Net)	1364	909	

Gamma Constants MCG 098		
Gamma Calibrator Number	060	
Mud Density	1.21	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Caliper Calibration MPD 083			Base Calibration on 29-APR-2005 11:31
			Field Calibration on 8-MAY-2005 02:30
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13428	4.01	
2	21585	5.99	
3	30000	7.98	
4	38511	9.94	
5	47824	12.01	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	8.03	7.98	

Sonic Constants MSS 066

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 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	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:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_MSS_Remake_2JUNE05.dta

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

Compact Knuckle Joint
SKJ 100 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.
MBS 99 Length: 4.41 m Weight: 90.4 lb

Compact Inline Standoff B
MIS 73 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 139 Length: 0.65 m Weight: 15.4 lb

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

Compact Inline Standoff B
MIS 136 Length: 0.65 m Weight: 15.4 lb

MBE 21 - THIRD BRIDLE
MLK 111 Length: 3.76 m Weight: 88.2 lb

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

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 30.9 lb

Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.3 lb

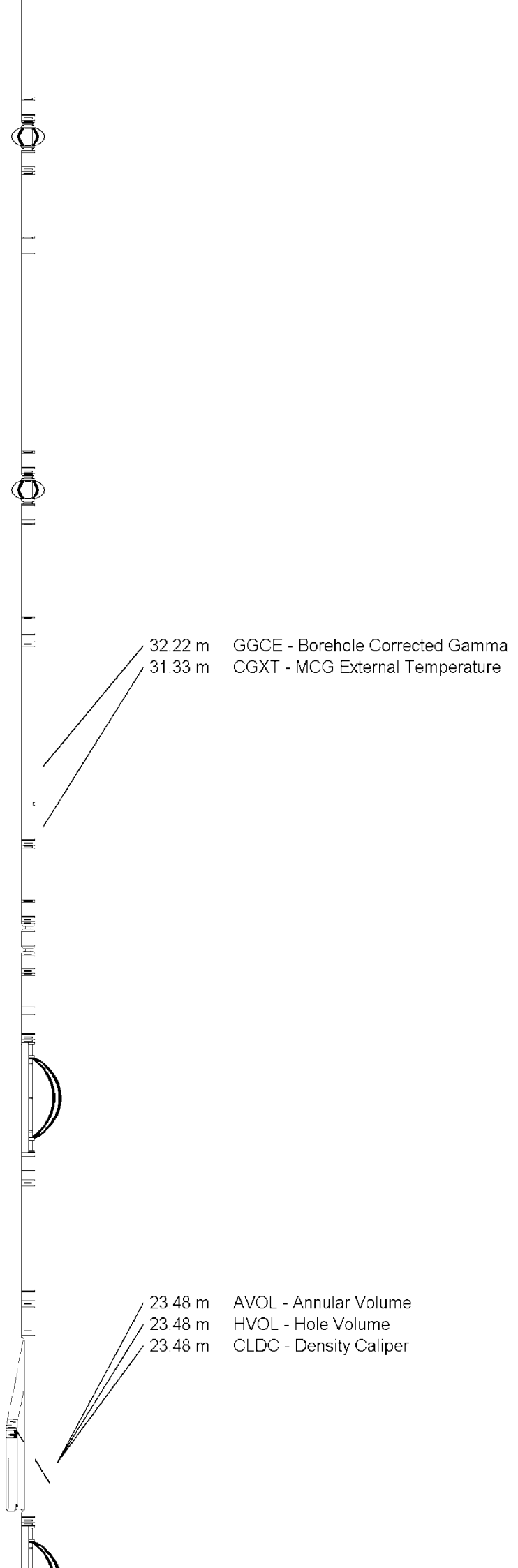
Compact Swivel Head Adaptor F
SHA 64 Length: 0.83 m Weight: 26.5 lb

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

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 24 Length: 1.74 m Weight: 33.1 lb



Compact Swivel Head Adaptor

SHA 28 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint

SKJ 110 Length: 0.66 m Weight: 24.3 lb

Compact Inline Standoff B

MIS 140 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.

MUG 20 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B

MIS 129 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.

MLE 16 Length: 3.76 m Weight: 92.6 lb

Compact Inline Standoff B

MIS 127 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 133 Length: 0.65 m Weight: 15.4 lb

Compact Sonic

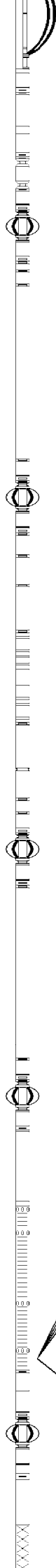
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B

MIS 128 Length: 0.65 m Weight: 15.4 lb

Compact Induction

MAI 39 Length: 3.29 m Weight: 48.5 lb



4.60 m

4.60 m

4.60 m

4.60 m

TR21 - 3' Transit Time

TR12 - 6' Transit Time

TR22 - 5' Transit Time

TR11 - 4' Transit Time

4.60 m

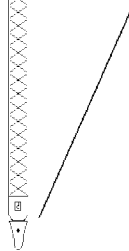
DT35 - 3-5' Compensated Sonic

Tool Zero


(0.44m from bottom)

Pressure Bung + Hole Finder
HFS 3 Length: 0.40 m Weight: 6.6 lb

Total Length: 53.36 m Weight: 1289.7 lb



All measurements relative to tool zero.

COMPANY		ESSO AUSTRALIA PTY LTD			
WELL		BREAM A10A			
FIELD		BREAM			
PROVINCE/COUNTY		BASS STRAIT			
COUNTRY/STATE		AUSTRALIA			
Elevation Kelly Bushing		metres	First Reading	2707.80	metres
Elevation Drill Floor	32.82	metres	Depth Driller	2717.18	metres
Elevation Ground Level	-59.40	metres	Depth Logger	2212.30	metres
 Compact		COMPENSATED SONIC 1:500 TVD			