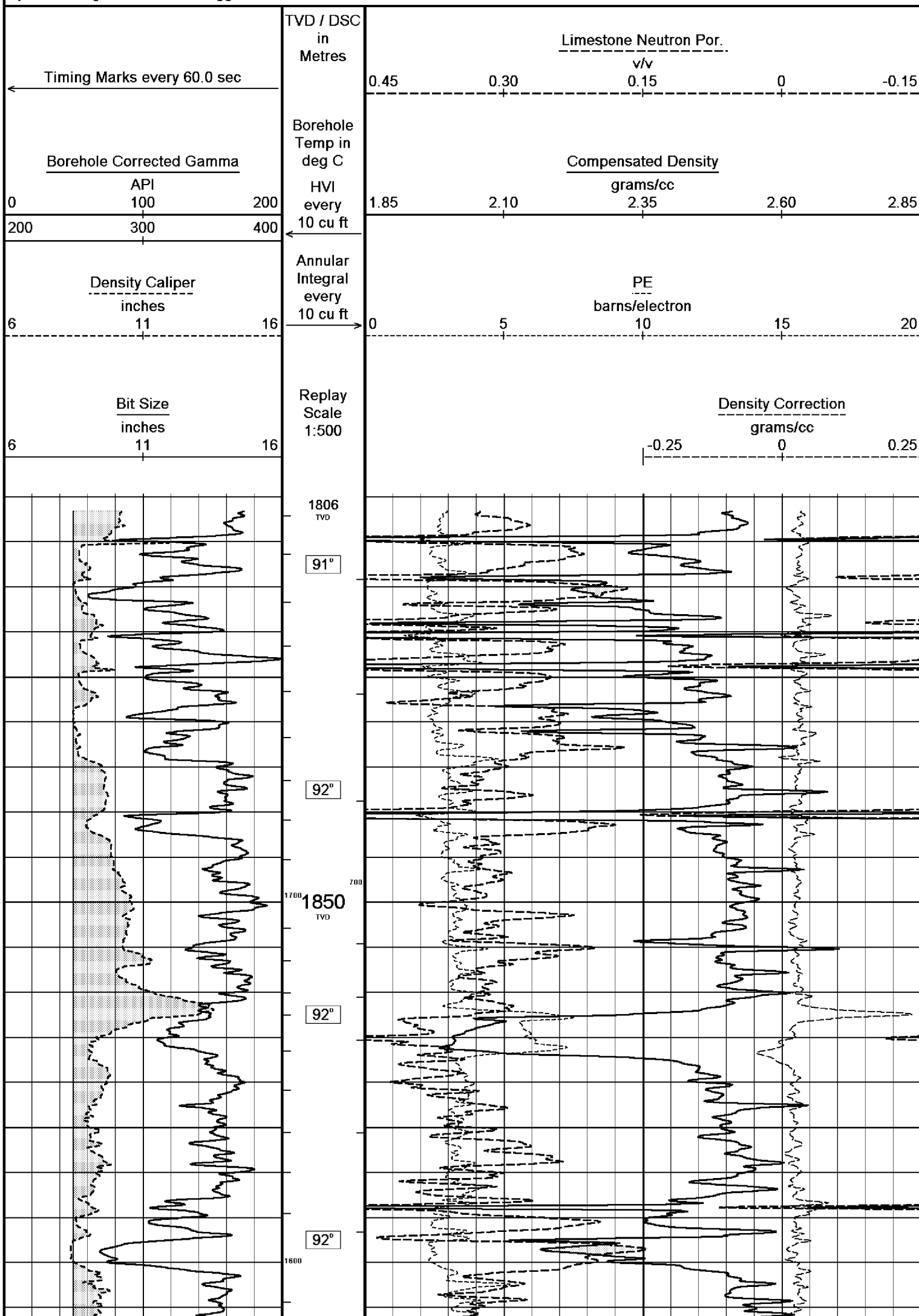
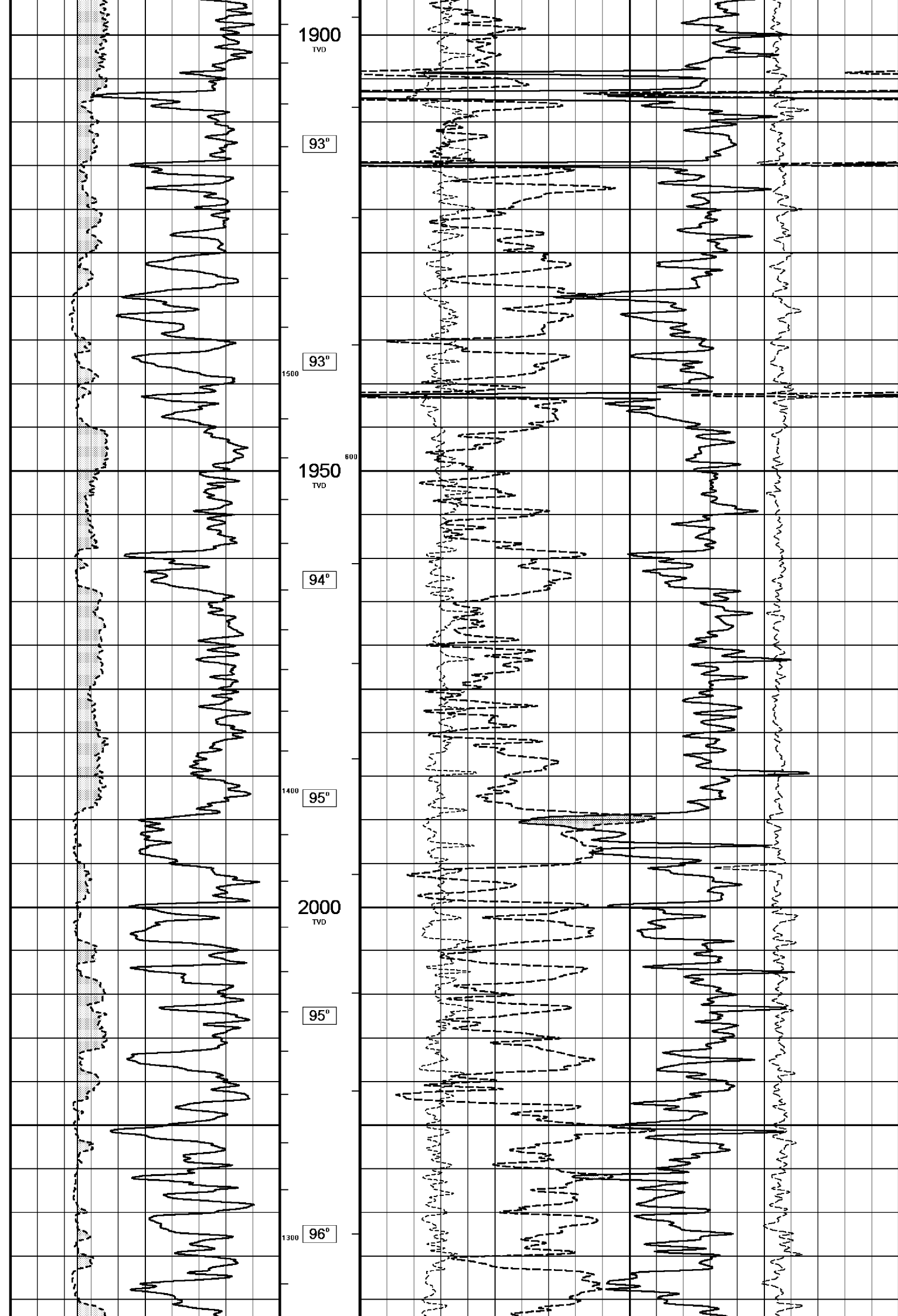


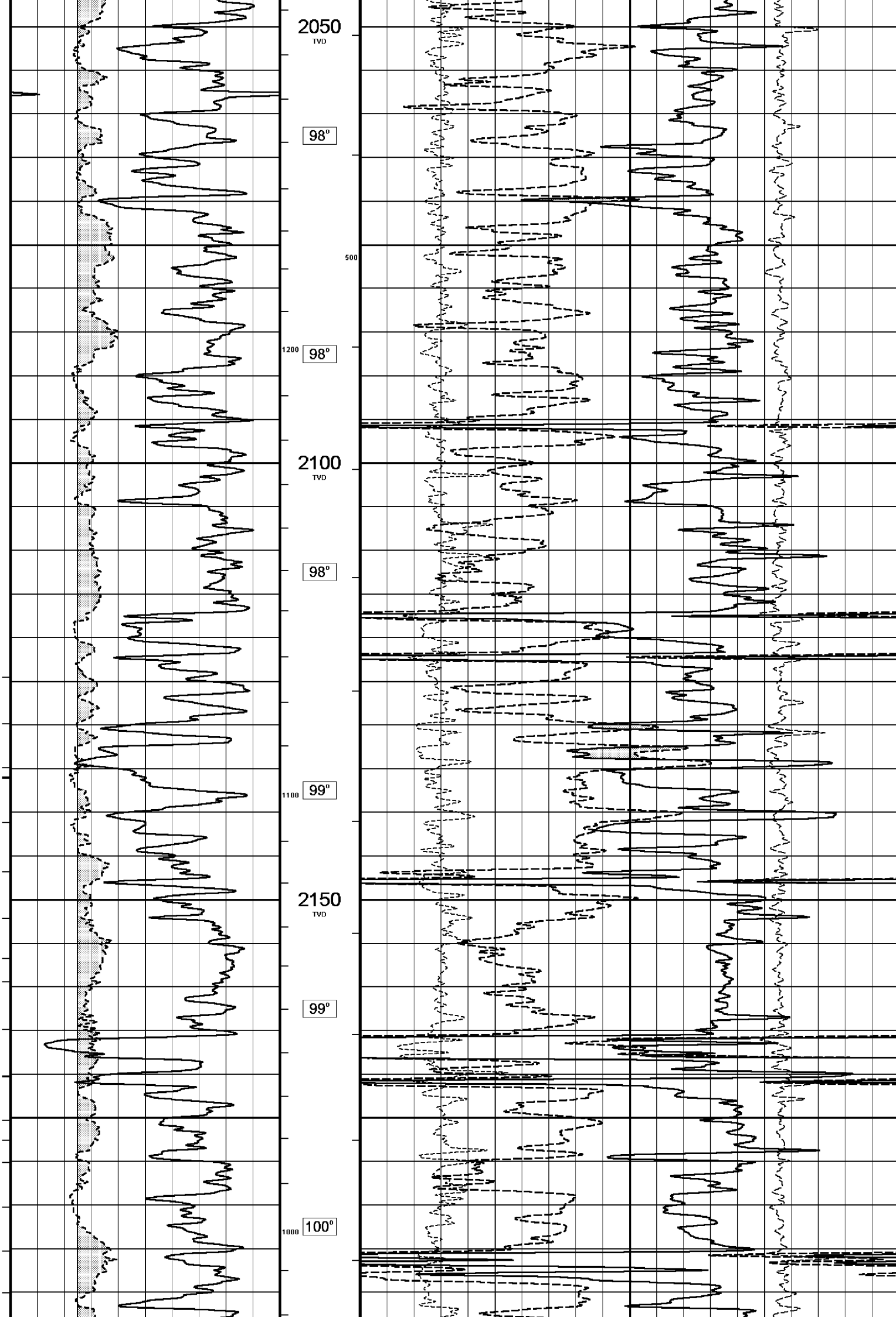
<div>Reeves</div> <div>Compact</div>			PHOTO DENSITY COMPENSATED NEUTRON 1:500 TVD		
COMPANY WELL FIELD PROVINCE/COUNTY COUNTRY/STATE LOCATION			Esso Australia Pty Ltd Marlin A10a ST Turrum Bass Strait Australia 38 13 49.320E , 148 13 15.712S N 5767920.060 m , E 606868.950 m <div>FINAL PRINT</div>		
LSD	SEC	TWP	RGE	Other Services COMPENSATED SONIC DUAL LATEROLOG	
API Number Permit Number VIC L3/L4					
Permanent Datum M.S.L. , Elevation 0.00 metres Log Measured From R.T. @ 27.91m above Permanent Datum Drilling Measured From R.T.			Elevations: KB 27.91 metres DF 27.91 metres GL -59.00 metres		
Date	15-SEP-2004				
Run Number	One				
Depth Driller	2713.46		metres		
Depth Logger	2707.83		metres		
First Reading	2703.46		metres		
Last Reading	1806.66		metres		
Casing Driller	616.41		metres		
Casing Logger					
Bit Size	8.50		inches		
Hole Fluid Type	KC/PPH/PA/GLY				
Density / Viscosity	9.90 lb/USg		77.00 CP		
PH / Fluid Loss	9.10		2.80 ml/30Min		
Sample Source	Flow Line				
Rm @ Measured Temp	0.135 @ 25.0		ohm-m		
Rmf @ Measured Temp	0.098 @ 25.0		ohm-m		
Rmc @ Measured Temp	0.168 @ 25.0		ohm-m		
Source Rmf / Rmc	Press		Press		
Rm @ BHT	0.047 @114.0		ohm-m		
Time Since Circulation	23.5 Hrs				
Max Recorded Temp	114.00		deg C		
Equipment Name	CWS/CML				
Equipment / Base	1		Sale		
Recorded By	G. McManus, R. Tench				
Witnessed By	C. MENHENITT				
Circ. Stopped	2200 14-Sep				

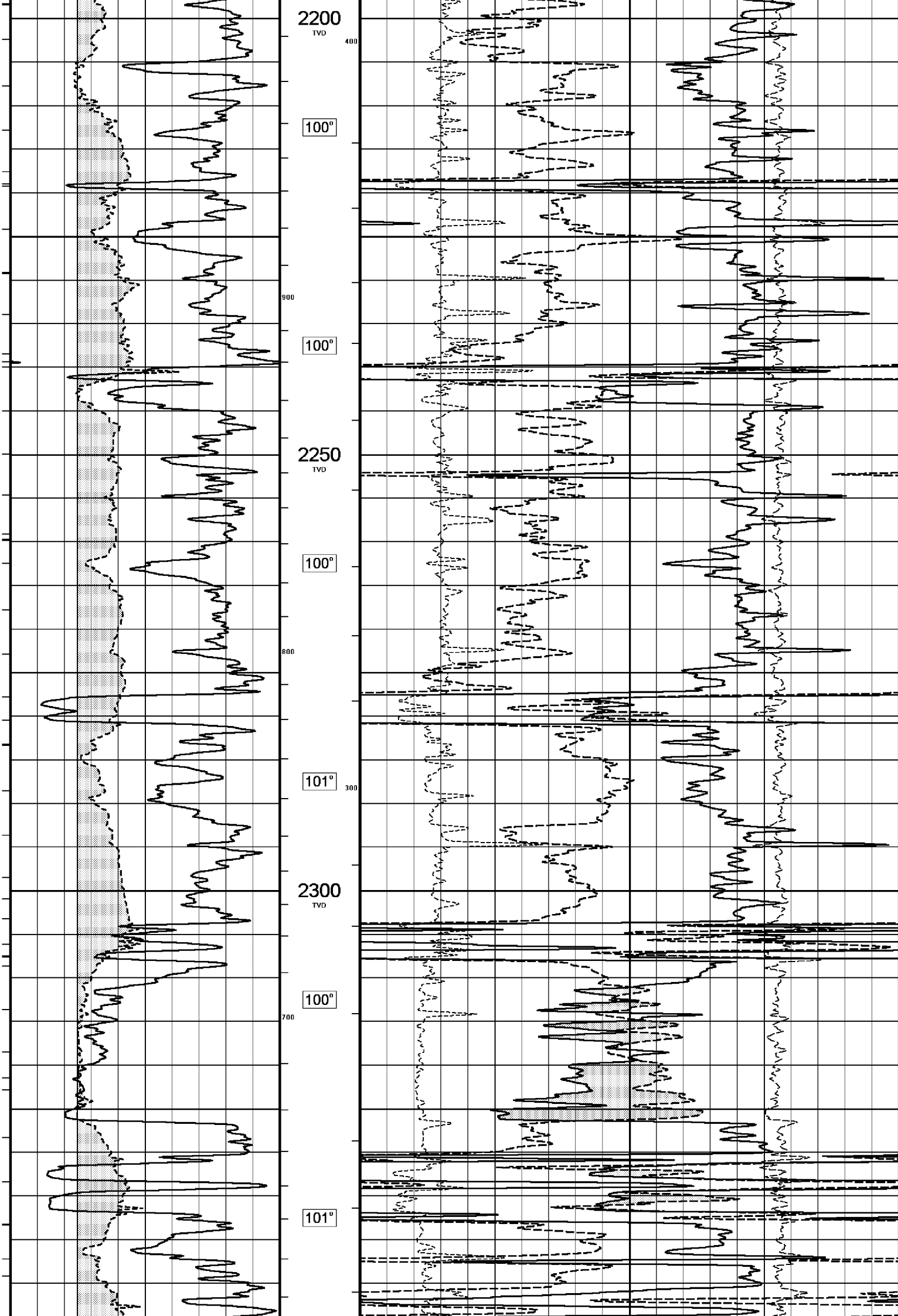
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		642.000		3491.000
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
J-55	13.375	0.000	642.000	54.40
REMARKS				
Drilling Rig: Nabors 453				
Crew: G McManus; R Tench; B Goodwin; M Susa				
Open hole well logged using Reeves COMPACT logging tools and 5" Shuttle conveyed Memory logging techniques. Logs depth corrected and quality controlled with Anadrill gamma log. Caliper reading inside casing: 12.688 In. Inside diameter of casing: 12.615 In.				
Max Inclination: 45.1 deg at 2884.87mMDRT Max Dogleg Severity: 4.32 deg at 3229.06mMDRT Max Temperature: 114.0 deg C at 3429.90mMDRT				
Hole Volume to Last Read: 1790 ft^3 Annular Volume to Last Read: 735 ft^3				

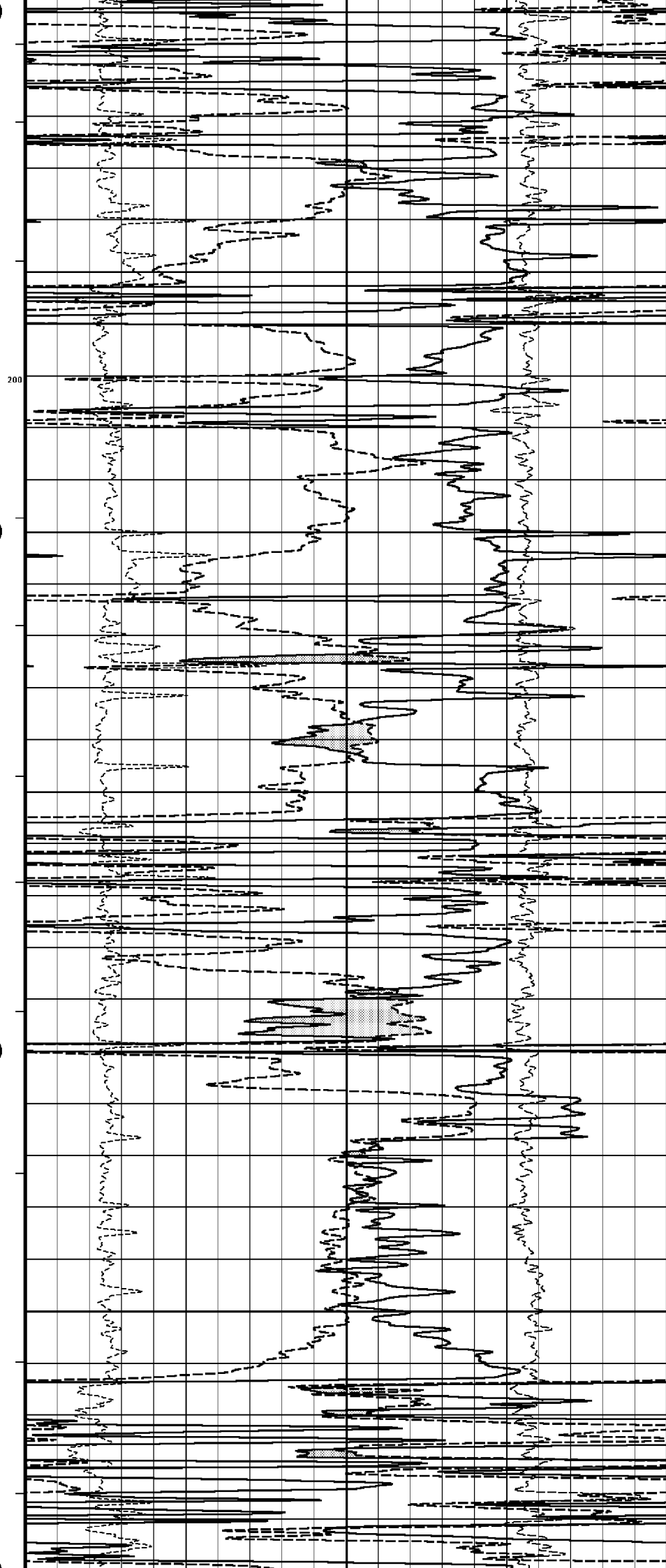
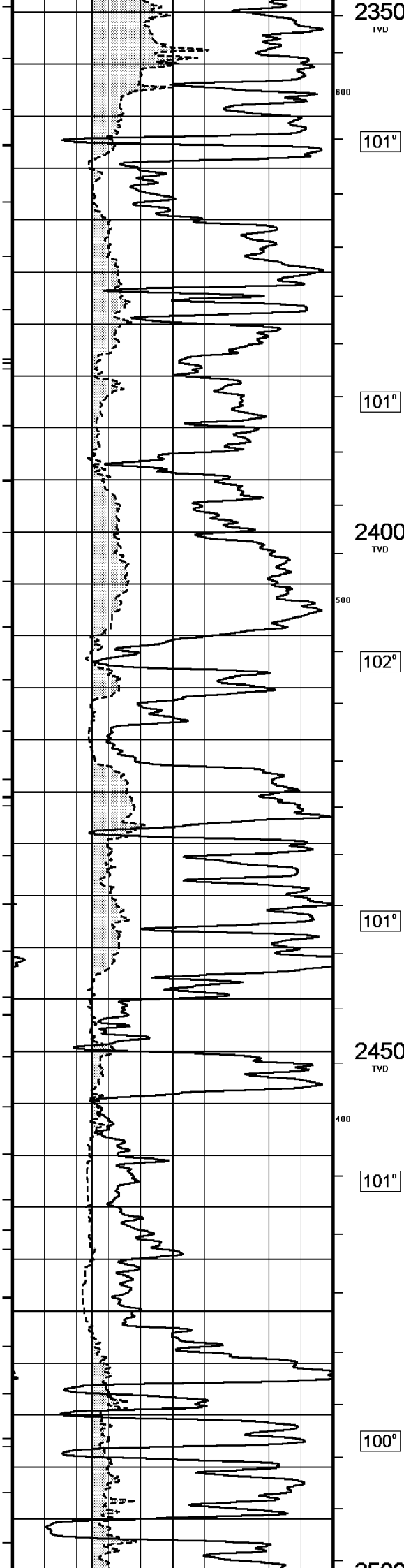
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

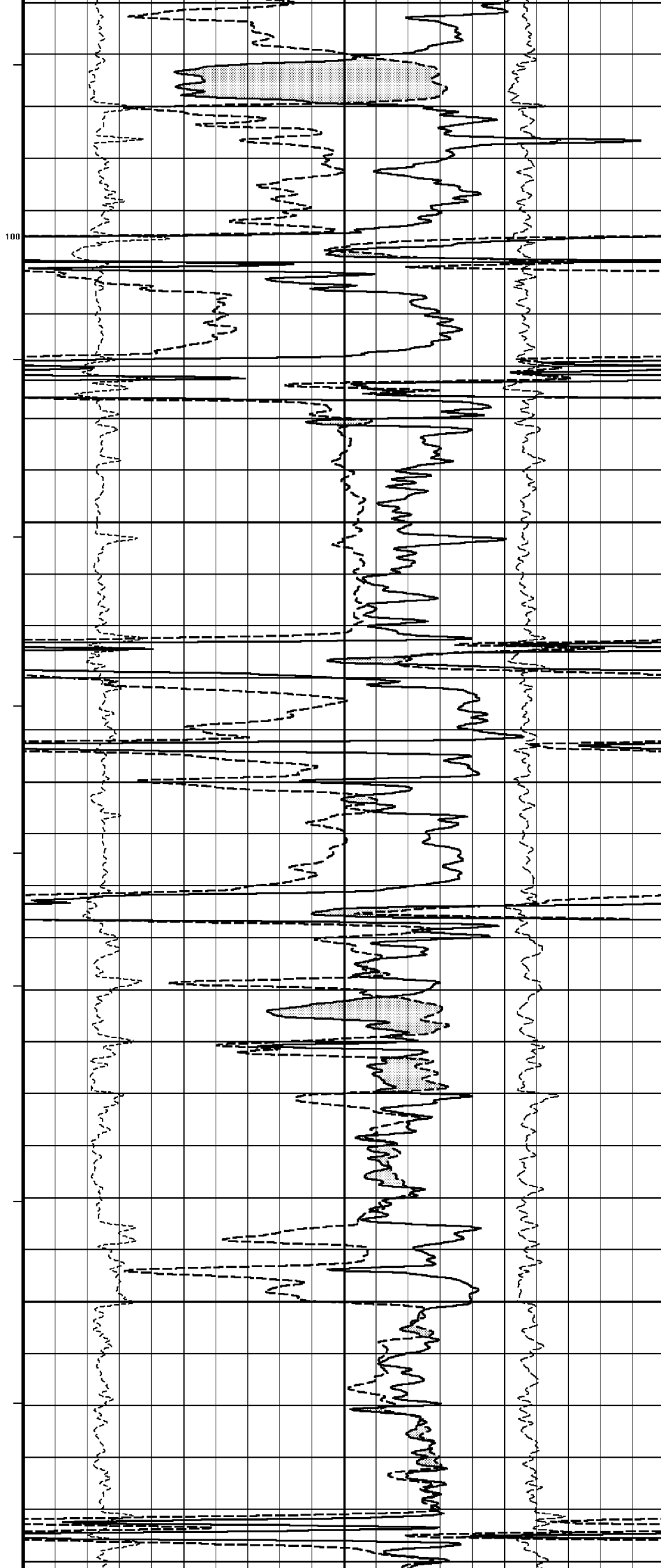
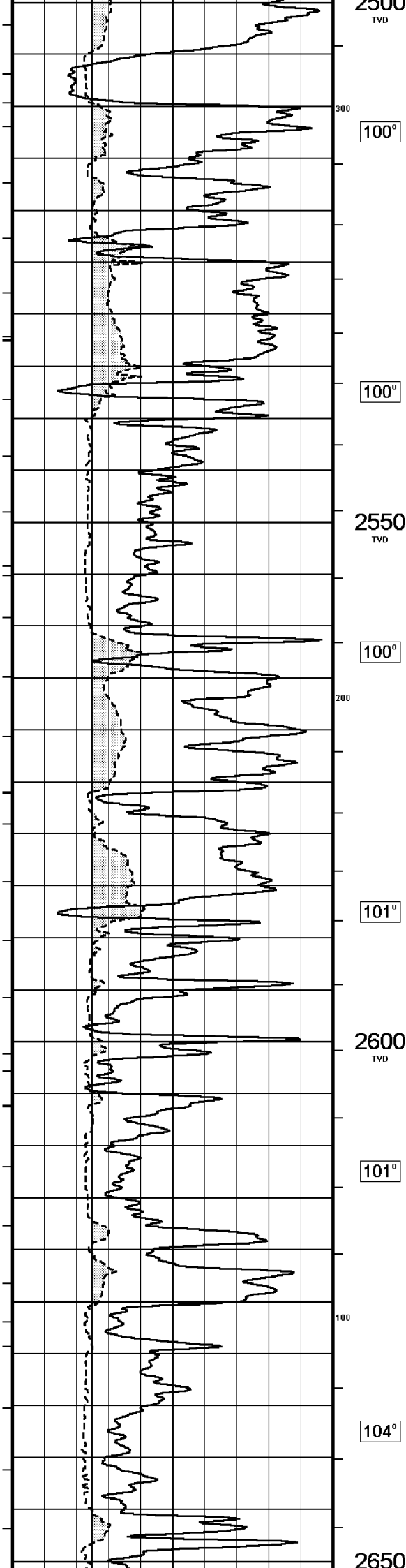


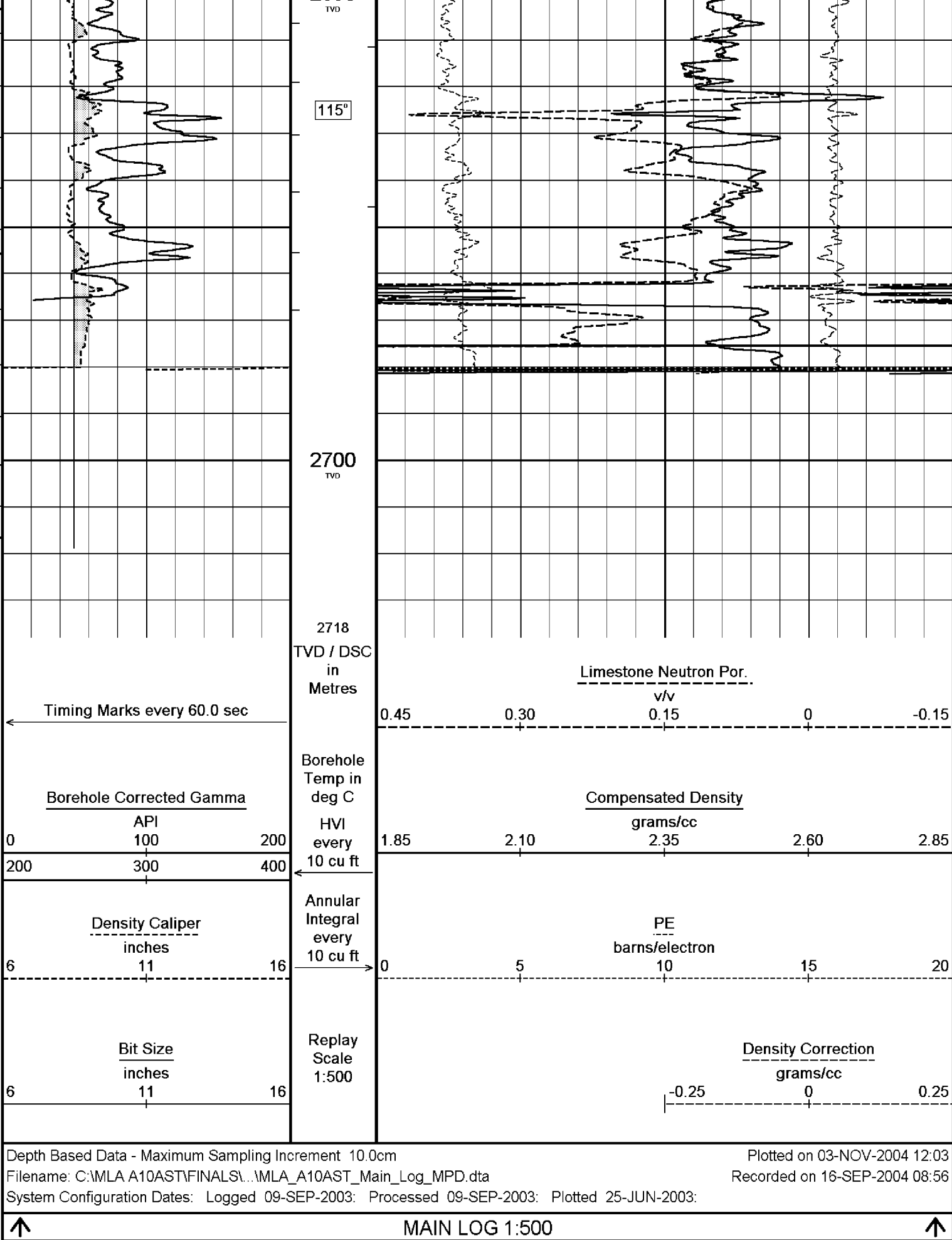












Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: C:\MLA A10AST\FINALS\MLA\_A10AST\_Main\_Log\_MPD.dta  
System Configuration Dates: Logged 09-SEP-2003: Processed 09-SEP-2003: Plotted 25-JUN-2003:  
Plotted on 03-NOV-2004 12:03  
Recorded on 16-SEP-2004 08:56

↑ MAIN LOG 1:500 ↑

BEFORE SURVEY CALIBRATION  
C:\MLA A10AST\FINALS\BLACK AND WHITE PRESENTATIONS\MLA\_A10AST\_Main\_Log\_MPD.dta

General Constants All 000  
General Parameters  
Mud Resistivity 0.135 ohm-metres



Mud Resistivity	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 043		
	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00
Field Calibration on 10-FEB-2004,09:37		
High Resolution Temperature Constants MCG 043		
Pre-filter Length	11	
Gamma Calibration MCG 043		
	Measured	Calibrated (API)
Background	7	4
Calibrator (Gross)	1404	913
Calibrator (Net)	1397	909
Field Calibration on 13-SEP-2004 17:13		
Gamma Constants MCG 043		
Gamma Calibrator Number	60	
Mud Density	1.18	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm
Neutron Calibration MDN 085		
Base Calibration		Base Calibration on 1-SEP-2004 13:09 Field Check on 13-SEP-2004 18:47
	Measured	Calibrated (cps)
	Near Far	Near Far
Ratio	3144 98	3714 110
	32.224	33.764
Field Calibrator at Base		Calibrated (cps)
Ratio		1597 2306
		0.692
Field Check		Calibrated (cps)
Ratio		1571 2298
		0.684
Neutron Constants MDN 085		
Neutron Source Id	NSN-E-739	
Neutron Jig Number	NEC-C-052	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.18	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	MCG External Temperature	
Temperature	20.00	degrees C
Mud Salinity	48.30	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	
Caliper Calibration MPD 083		
		Base Calibration on 1-SEP-2004 10:37 Field Calibration on 13-SEP-2004 18:41

## Base Calibration

## Reading No

## Measured

## Calibrator Size (in)

1	13072	4.01
2	21358	5.99
3	29792	7.98
4	38288	9.94
5	47695	12.01
6	N/A	N/A

## Field Calibration

## Measured Caliper (in)

## Actual Caliper (in)

7.95 7.98

## Photo Density Calibration MPD 083

Base Calibration on 1-SEP-2004 10:28

Field Check on 13-SEP-2004 18:40

## Density Calibration

## Base Calibration

## Measured

## Calibrated (sdu)

## Near

## Far

## Near

## Far

Reference 1 54422 18790 53111 19310

Reference 2 25713 2533 24951 2530

## Field Check at Base

981.2 1133.8

## Field Check

980.1 1130.8

## PE Calibration

## Base Calibration

## Measured

## Calibrated

## WS

## WH

## Ratio

## Ratio

Background 186 847

Reference 1 16823 54230 0.312 0.320

Reference 2 6734 25569 0.265 0.273

## Field Check at Base

185.5 846.9

## Field Check

186.9 844.2

## Density Constants MPD 083

Density Source Id 242

Nylon Calibrator Number DNC-D-536

Aluminium/Fe Calibrator Number DAC-D-536

Density Shoe Profile 4 inch

Caliper Source for Processing Density Caliper

PE Correction to Density Not Applied

Mud Density 1.18 gm/cc

Mud Density Z/A Correction 1.11

Mud Filtrate Density 1.00 gm/cc

Dry Hole Mud Filtrate Density 1.00 gm/cc

DNCT 0.00 gm/cc

CRCT 0.00 gm/cc

## Matrix Density (gm/cc)

## Depth (m)

2.71 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

0.00 0.00

## DOWNHOLE EQUIPMENT

C:\MLA A10AST\FINALS\BLACK AND WHITE PRESENTATIONS\MLA\_A10AST\_Main\_Log\_MPD.dta

Compact Swivel Head Adaptor

SHA 64 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint

SKJ 111 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 144    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 142    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 141    Length: 0.65 m    Weight: 15.4 lb

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

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

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

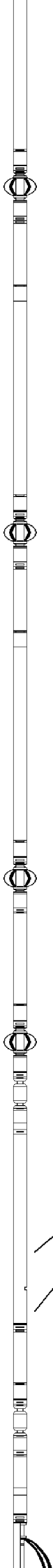
Compact Gamma  
MCG 43    Length: 2.65 m    Weight: 63.9 lb

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

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

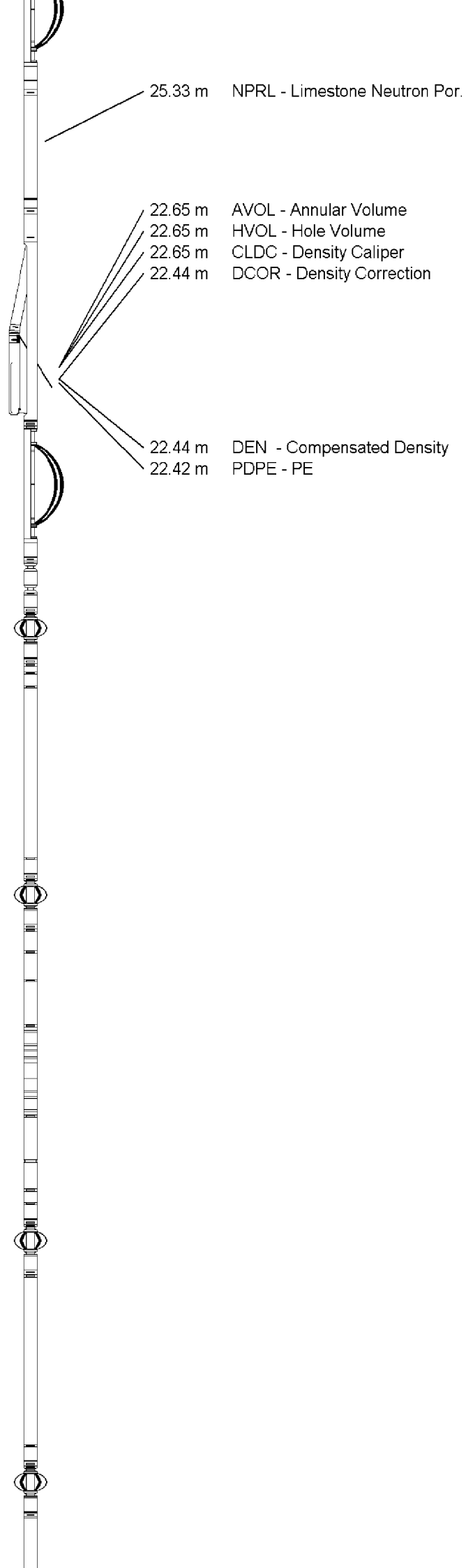
Compact Swivel Head Adaptor  
SHA 71    Length: 0.83 m    Weight: 26.5 lb

Compact Inline Bowspring A  
MIS 94    Length: 1.74 m    Weight: 22.1 lb



31.38 m    GGCE - Borehole Corrected Gamma  
30.50 m    CGXT - MCG External Temperature

MIS 94	Length: 1.74 m	Weight: 55.1 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 Knuckle Joint SKJ 102	Length: 0.66 m	Weight: 24.3 lb
Compact Inline Standoff B MIS 139	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 136	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 133	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 130	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 132 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: 0.40 m Weight: 6.6 lb

Total Length: 53.77 m Weight: 1298.5 lb



Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

COMPANY	Esso Australia Pty Ltd
WELL	Marlin A10a ST
FIELD	Turrum
PROVINCE/COUNTY	Bass Strait
COUNTRY/STATE	Australia

Elevation Kelly Bushing	metres	First Reading	2703.46	metres
Elevation Drill Floor 27.91	metres	Depth Driller	2713.46	metres
Elevation Ground Level -59.00	metres	Depth Logger	2707.83	metres



PHOTO DENSITY  
COMPENSATED NEUTRON  
1:500 TVD