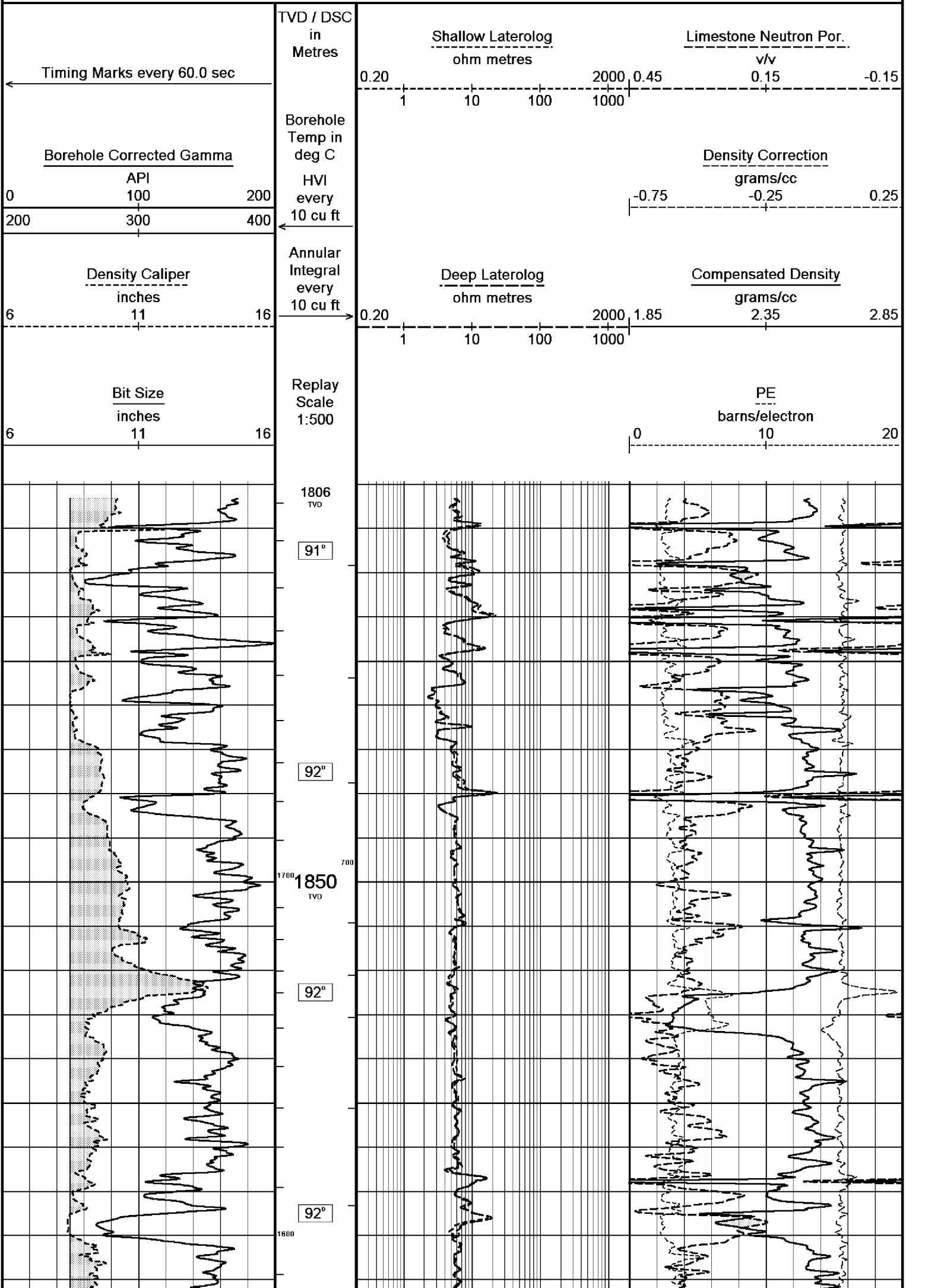
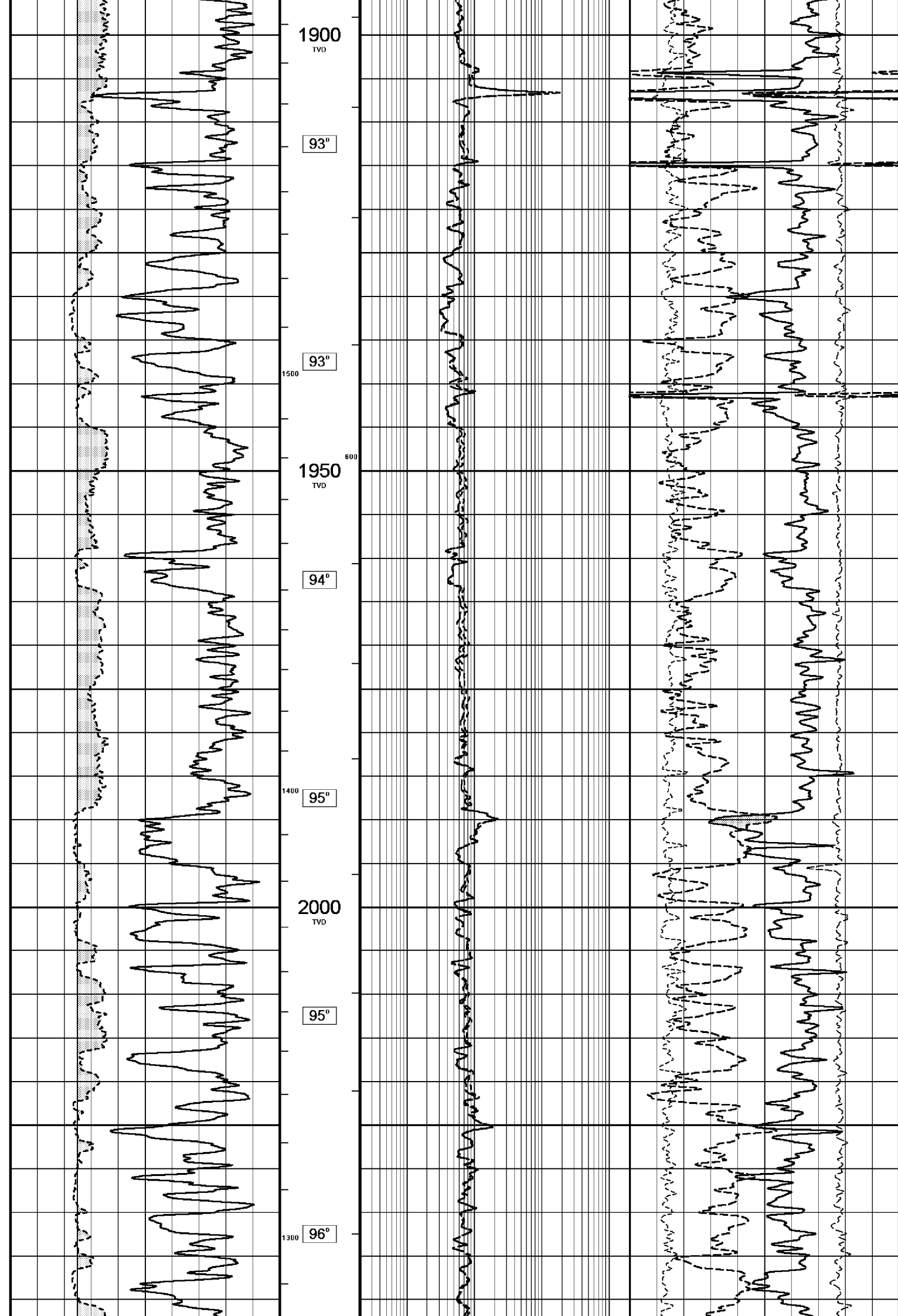


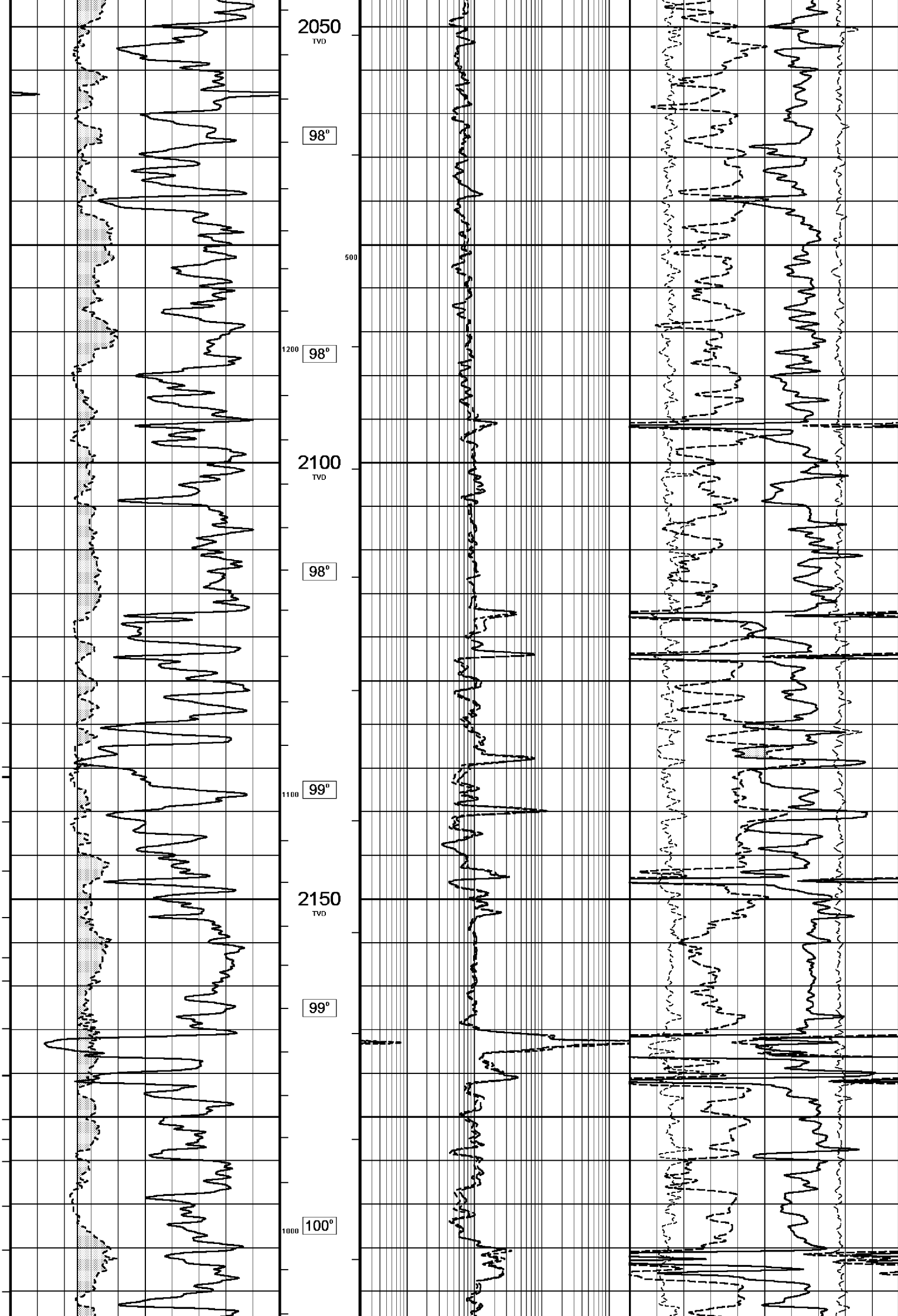
<div>Reeves</div> <div>Compact</div>			DUAL LATEROLOG - GR		
			DENSITY - NEUTRON		
			1:500 TVD		
COMPANY			Esso Australia Pty Ltd		
WELL			Marlin A10a ST		
FIELD			Turrum		
PROVINCE/COUNTRY			Bass Strait		
COUNTRY/STATE			Australia		
LOCATION			38 13 49.320E , 148 13 15.712S		
			N 5767920.060 m , E 606868.950 m		
			[FINAL PRINT]		
LSD	SEC	TWP	RGE	Other Services	
				COMPENSATED SONIC	
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.					
Date	15-SEP-2004				Elevations: KB DF GL 27.91 -59.00 metres metres metres
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				

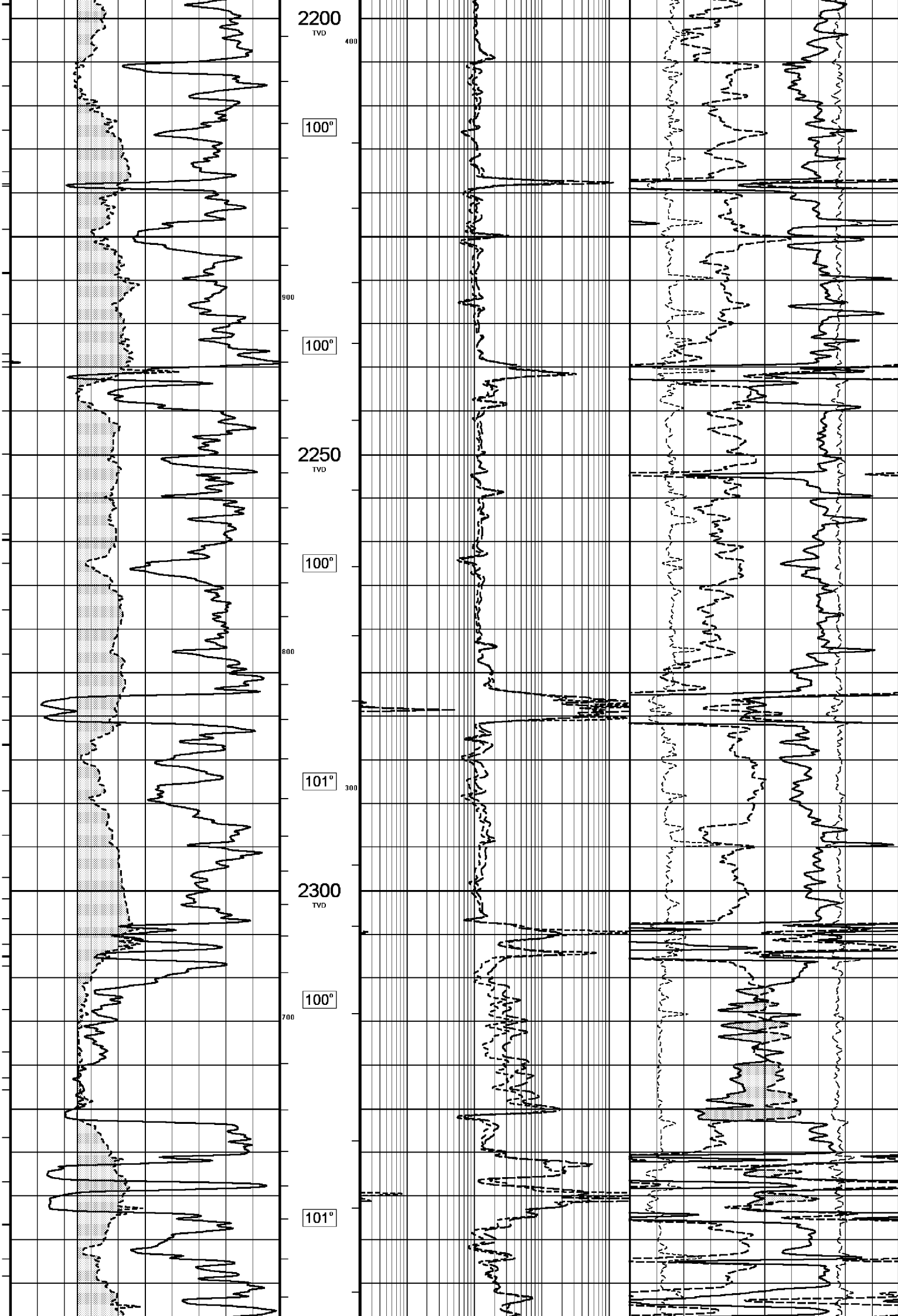
BOREHOLE RECORD				
Bit Size inches	Depth From metres		Depth To metres	
8.500	642.000		3491.000	
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
J-55	13.375	0.000	642.000	54.40
REMARKS				
Drilling Rig: Nabors 453				
Crew: G McManus; R Tench; B Goodwin; M Susa				
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				

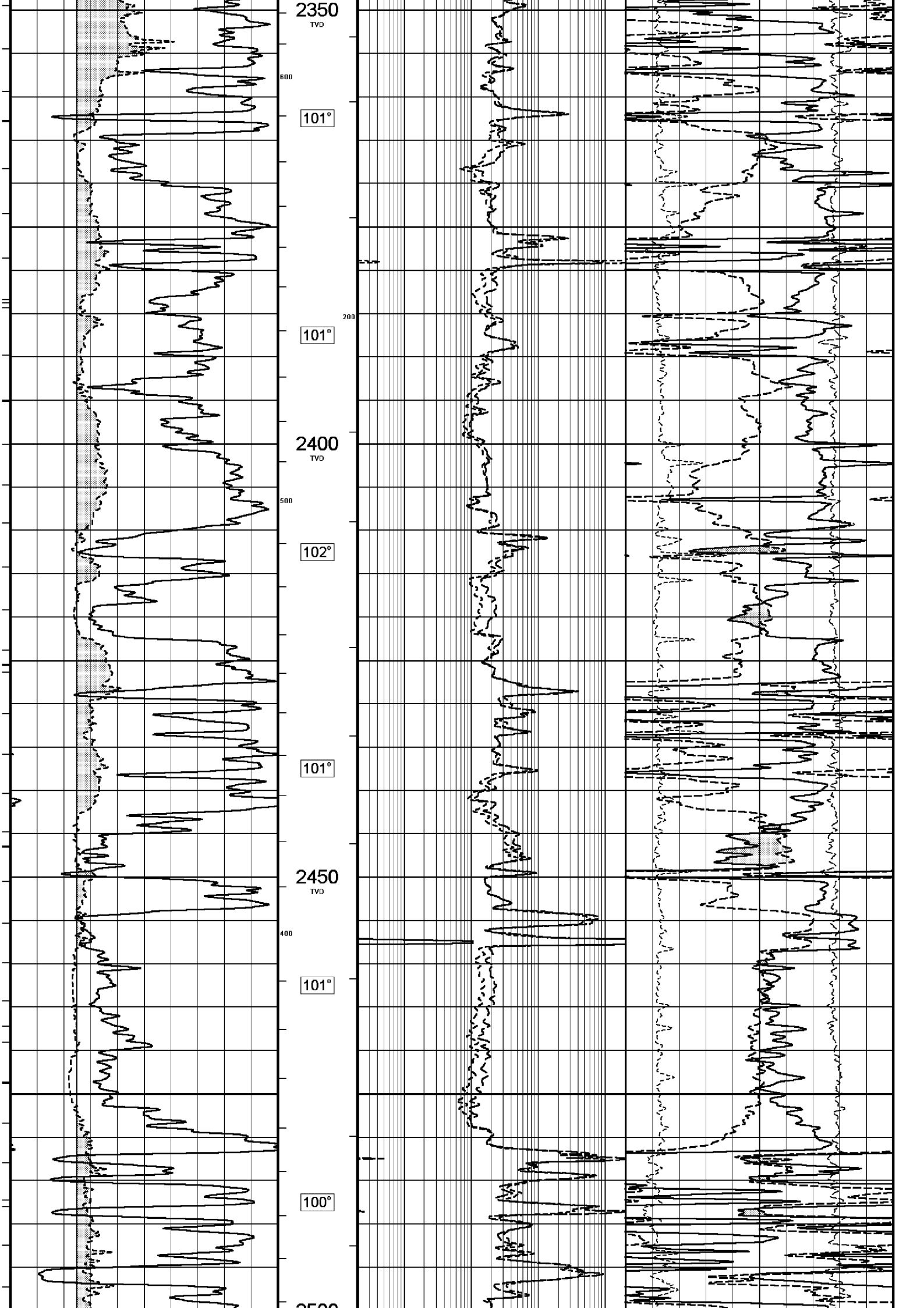
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

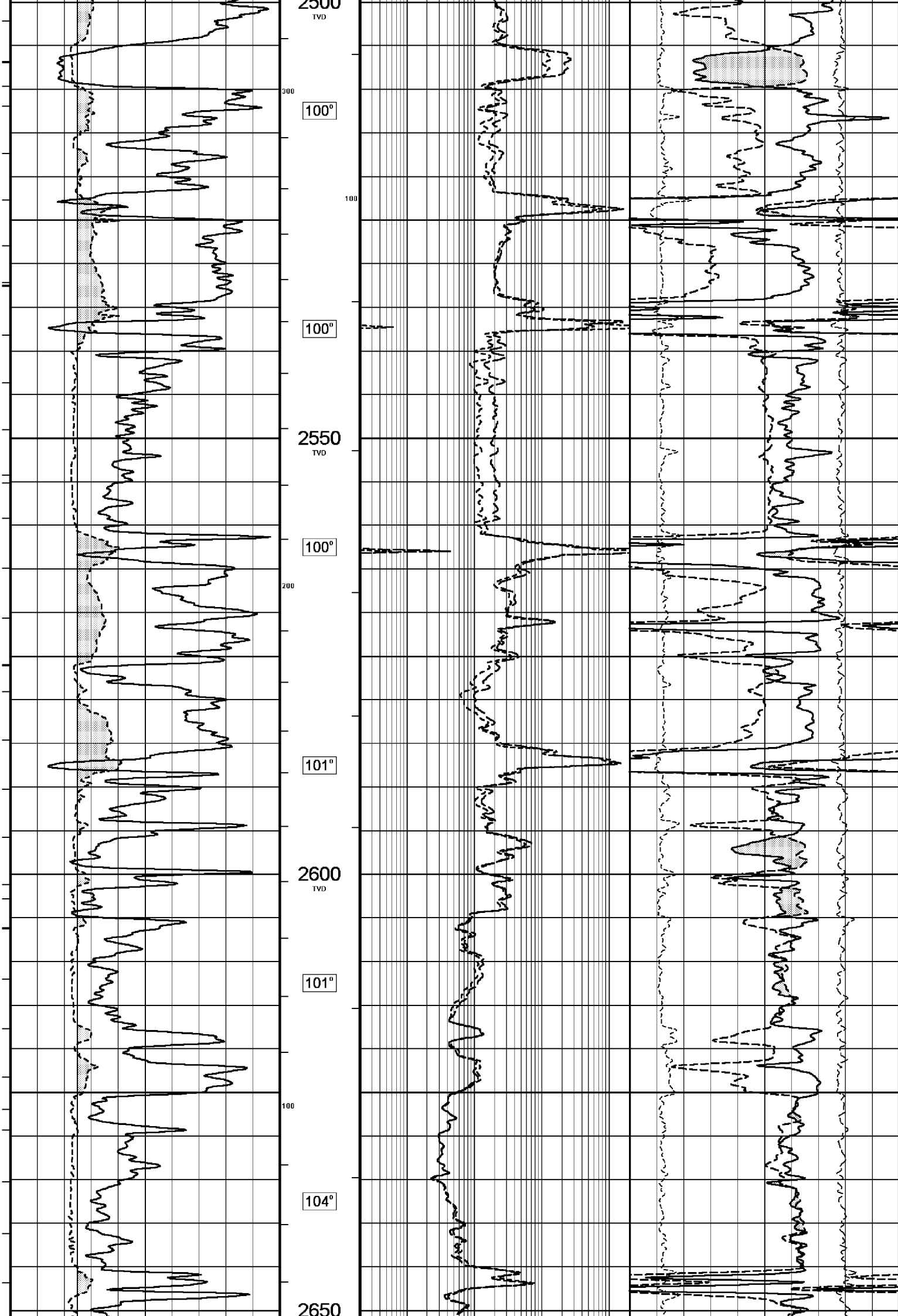


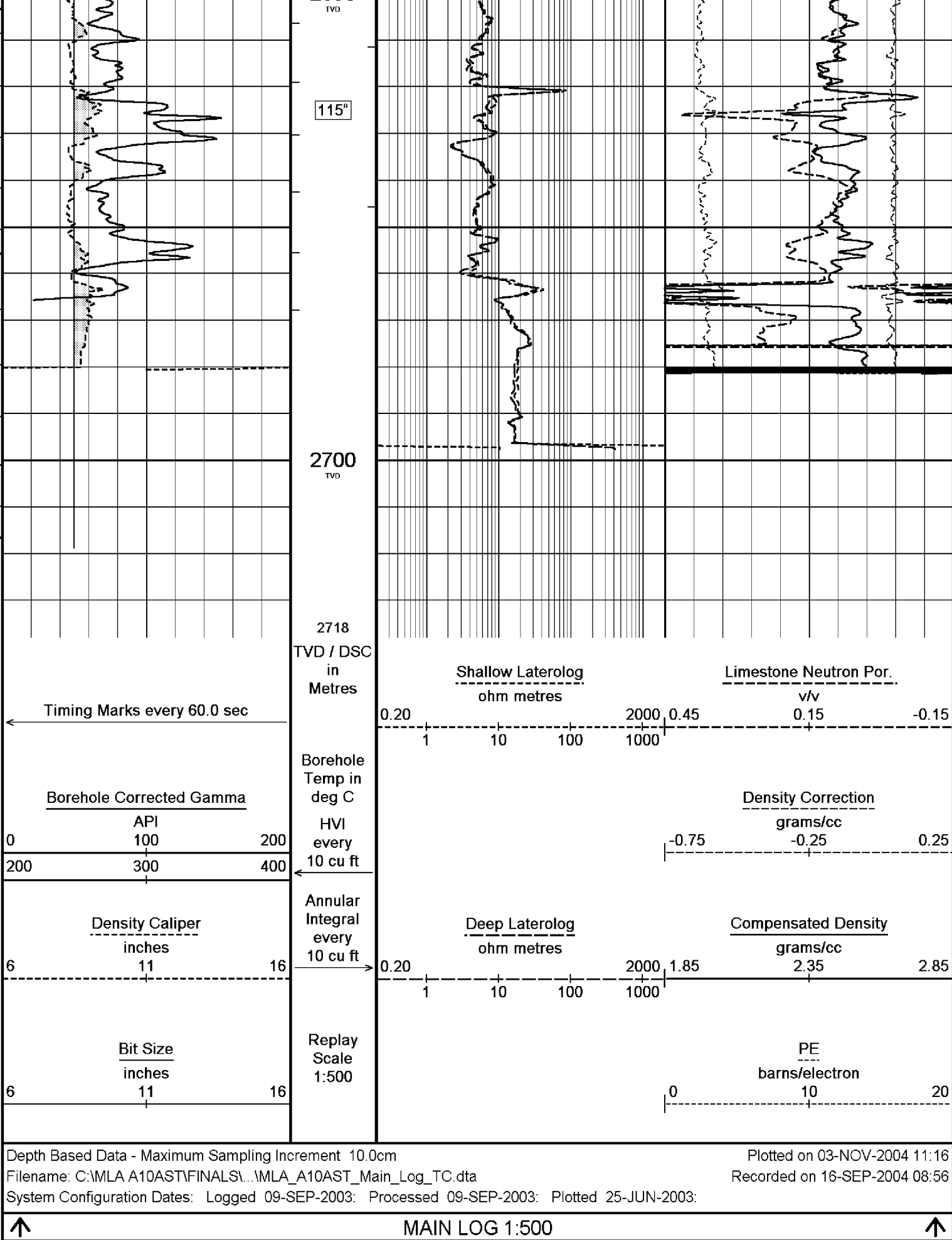












BEFORE SURVEY CALIBRATION

C:\MLA A10AST\FINALS\BLACK AND WHITE PRESENTATIONS\MLA_A10AST_Main_Log_TC.dta

General Constants All 000		
General Parameters		
Mud Resistivity	0.135	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 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

Laterolog Calibration MLE 017

Base Calibration on 2-SEP-2004,17:05

Field Check on 13-SEP-2004,17:07

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Shallow	9.7	969.2	13.2	1321.0
Deep	9.7	933.4	7.5	755.0
Groningen	9.7	933.7	8.5	854.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	49.0	49.0
Deep	28.8	28.8
Groningen	28.8	28.8

Groningen

262.9

262.9

Laterolog Constants MLE 017

Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.3210	
Deep Laterolog K Factor	0.7550	
Groningen Laterolog K Factor	0.8540	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode	
Groningen Connection	Groningen Electrode	

DOWNHOLE EQUIPMENT

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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: 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 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

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

25.33 m NPRL - Limestone Neutron Por.

22.65 m AVOL - Annular Volume
22.65 m HVOL - Hole Volume
22.65 m CLDC - Density Caliper
22.44 m DEN - Compensated Density

22.44 m DCOR - Density Correction
22.42 m PDPE - PE

13.35 m DSL - Shallow Laterolog
13.35 m DLL - Deep Laterolog



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

Reeves
Compact

DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:500 TVD

