

# Reeves

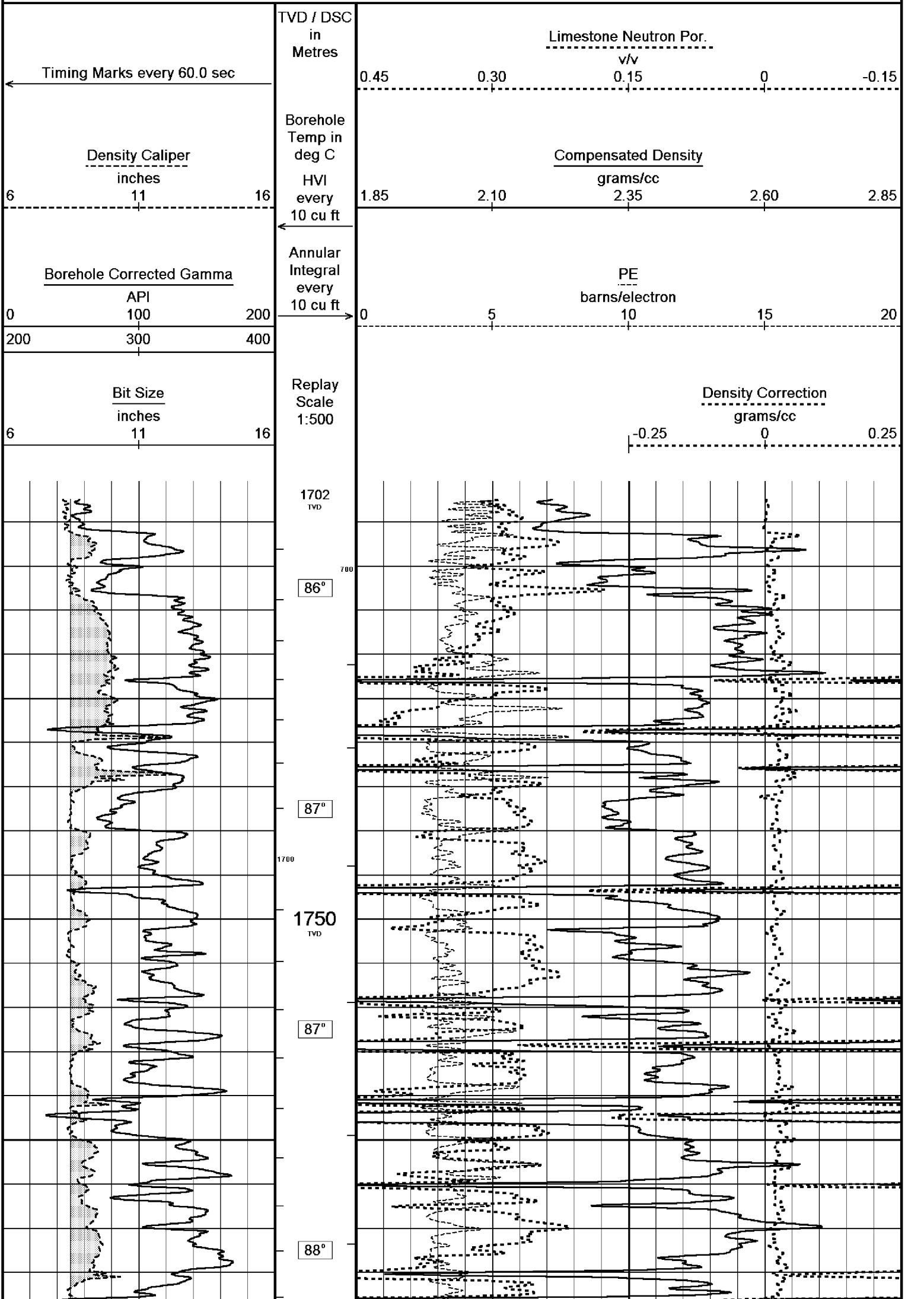
## Compact

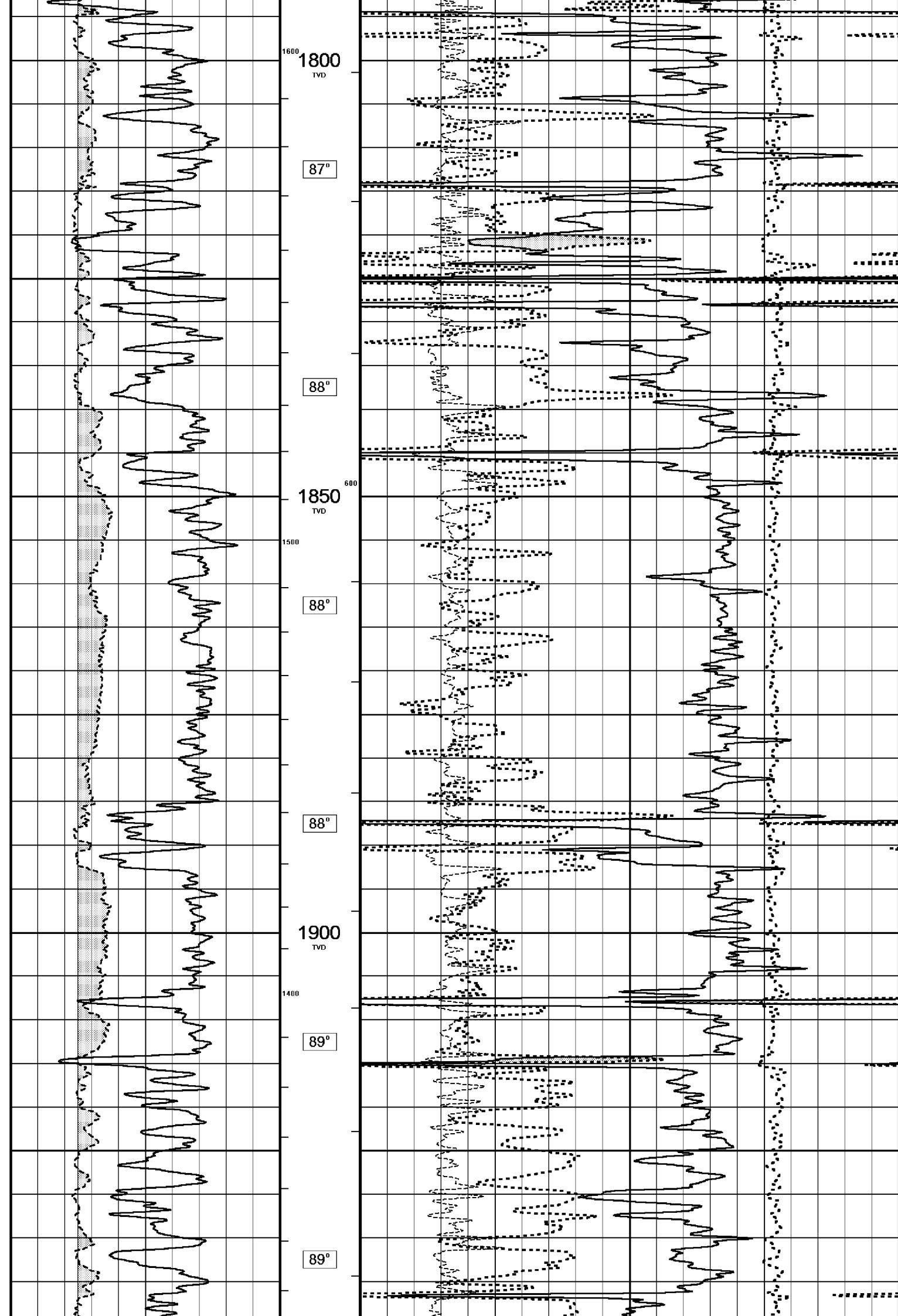
Photo Density  
Compensated Neutron  
1:500 TVD

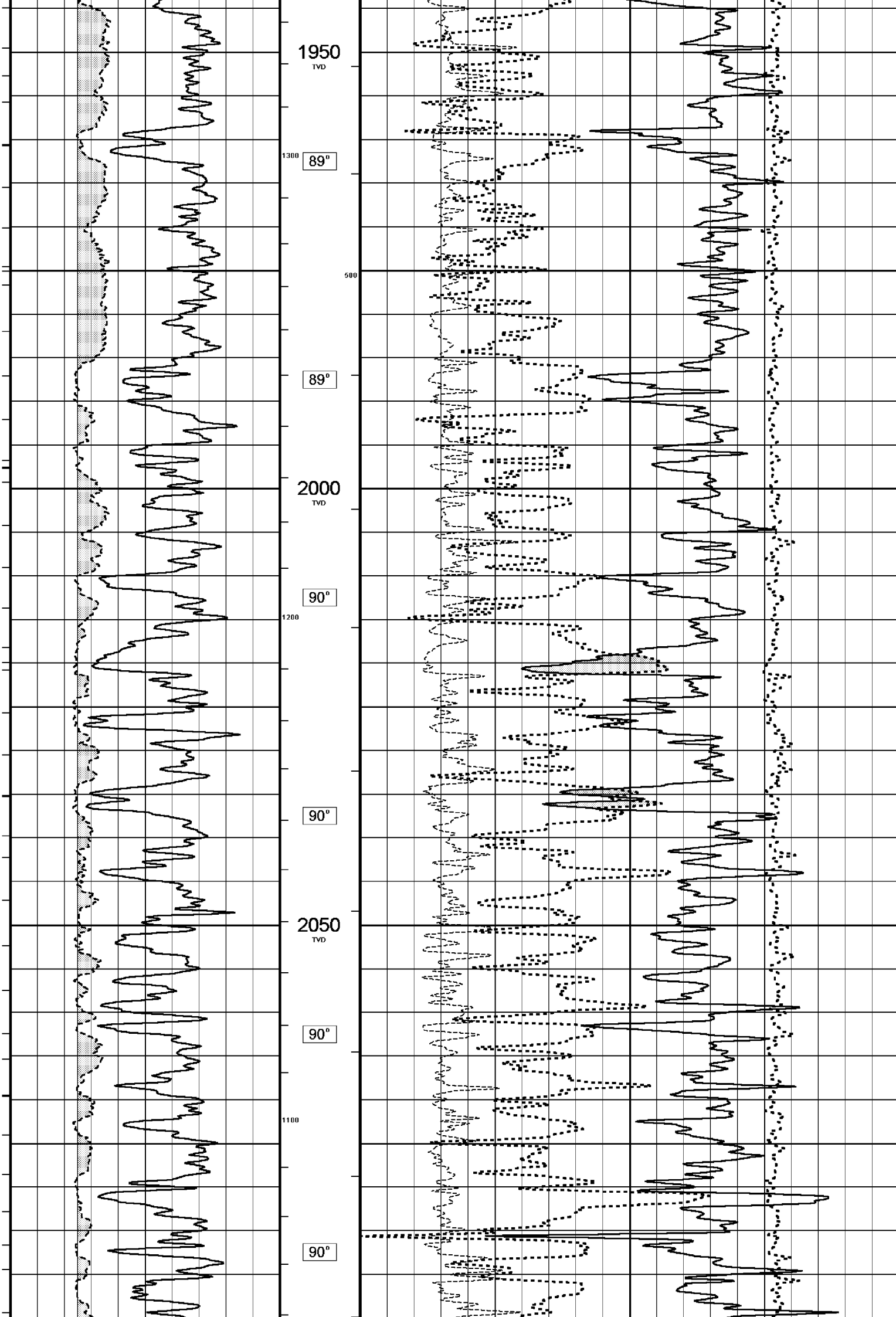
COMPANY	ESSO AUSTRALIA PTY. LTD.		
WELL	MARLIN A24A		
FIELD	TURRUM		
PROVINCE/COUNTY	BASS STRAIT		
COUNTRY/STATE	AUSTRALIA		
LOCATION	38Deg13'49.203"S, 148Deg13'15.554"E N 5767923.720 m, E 606865.170 m		
LSD	SEC	TWP	RGE
API Number	Other Services Dual Laterolog		
Permit Number	VIC/L11 Compensated Sonic		
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/PPHA		
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. MENHENIT, L. CULLEN		
Circ. Stopped	1400 4-MAY		

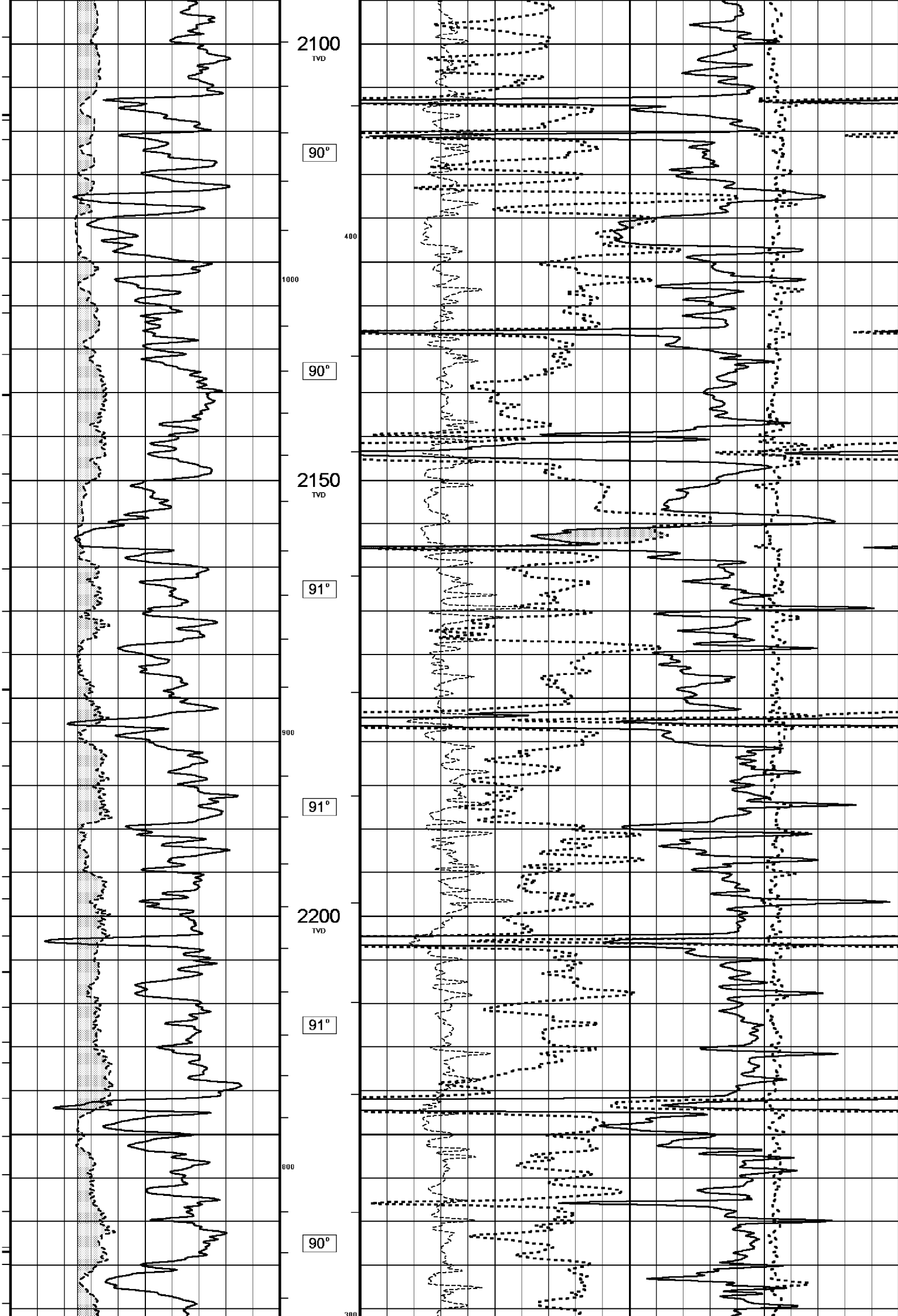
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		653.000		3275.000
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	13.375	0.000	653.000	0.00
L80	9.625	0.000	653.000	47.00
REMARKS				
***Miss Run - No data collected above 2008.5 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				

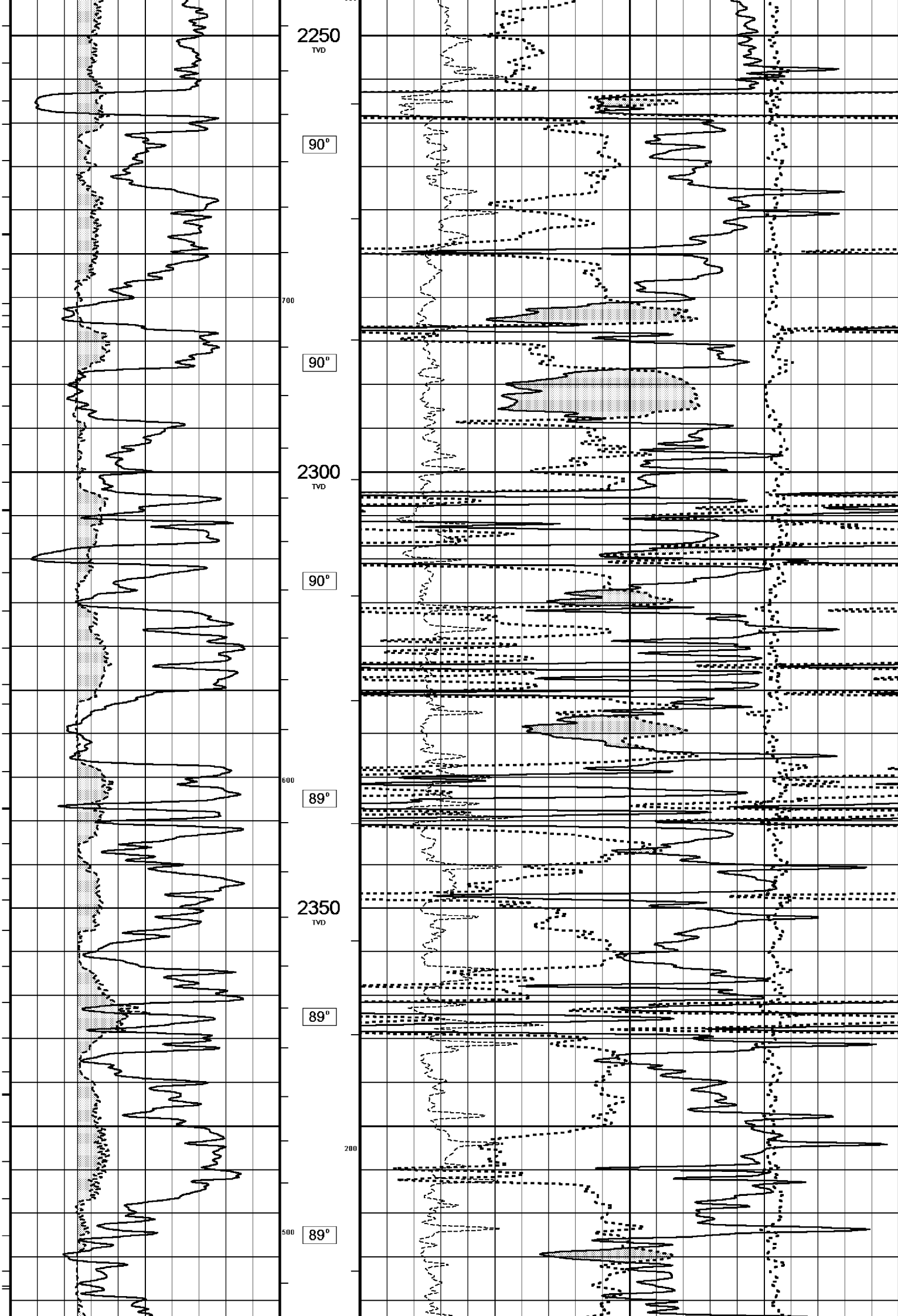
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

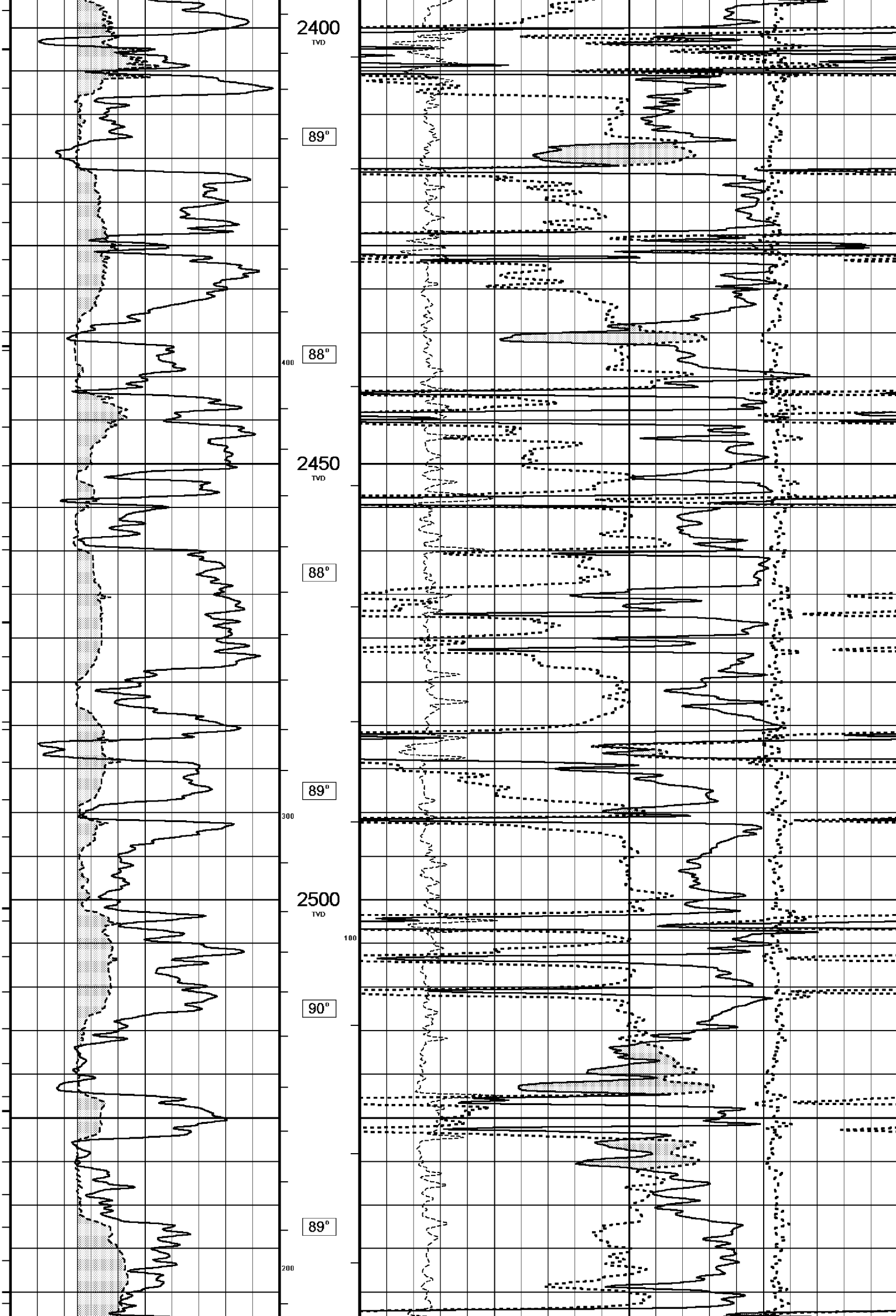


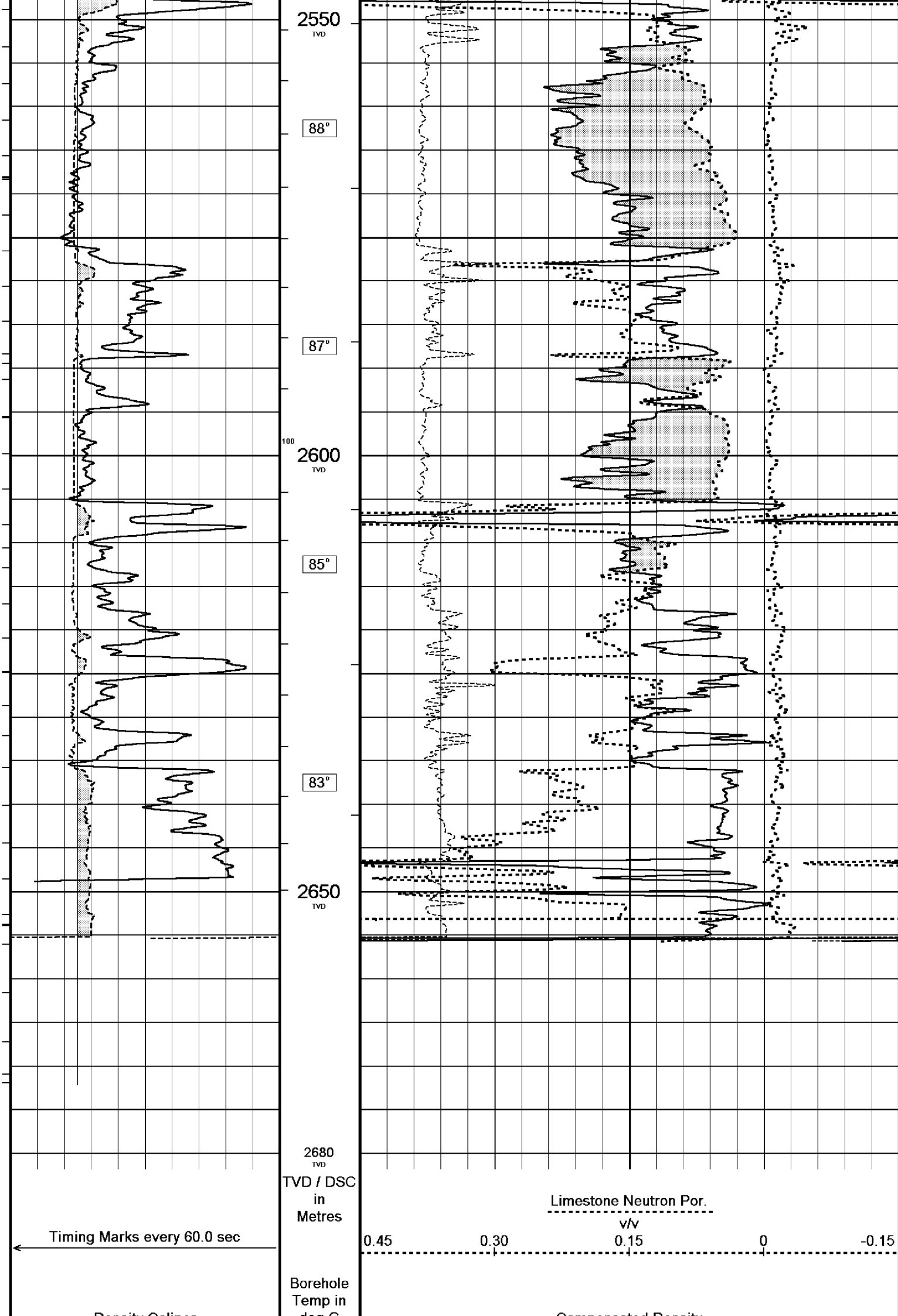




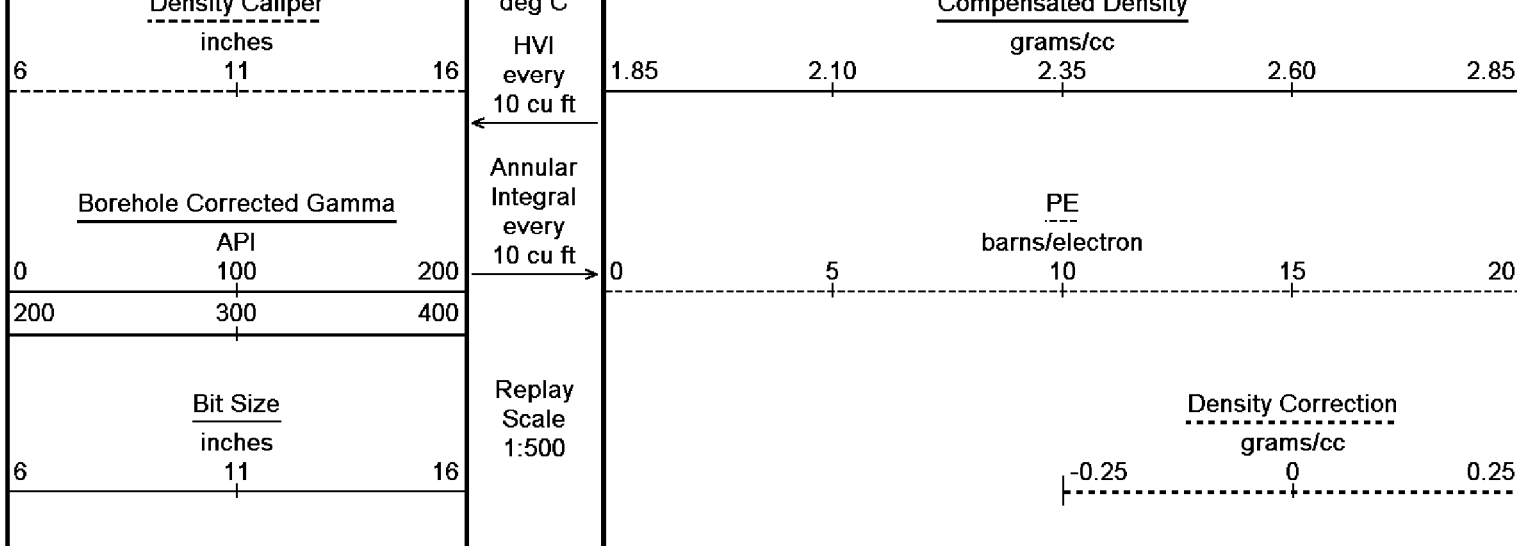












Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 24-SEP-2004 13:15  
 Filename: C:\Marlin\MLA A24a\Final Data Presentations\...MLA A24A MAIN LOG MPD.dta  
 Recorded on 06-MAY-2004 16:05  
 System Configuration Dates: Logged 09-SEP-2003: Processed 09-SEP-2003: Plotted 25-JUN-2003:

MAIN LOG 1:500

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

Neutron Calibration MDN 085		Base Calibration on 20-APR-2004 10:18 Field Check on 3-MAY-2004 10:35
Base Calibration	Measured	Calibrated (cps)

	Near	Far	Near	Far
	3167	98	3714	110
Ratio	32.172		33.764	
Field Calibrator at Base			Calibrated (cps)	
			1647	2404
Ratio			0.685	
Field Check			Calibrated (cps)	
			1635	2387
Ratio			0.685	

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	1.19	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	42.00	kppm		
Formation Fluid Salinity Source	None			
Formation Fluid Salinity	N/A	kppm		
Barite Mud Correction	Not Applied			

Photo Density Calibration MPD 083				Base Calibration on 20-APR-2004 12:19	
				Field Check on 3-MAY-2004 10:28	
Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
		Near	Far	Near	Far
	Reference 1	54734	19093	53111	19310
	Reference 2	25855	2558	24951	2530
Field Check at Base					
		991.1	1147.4		
Field Check					
		992.2	1143.0		
PE Calibration					
Base Calibration		Measured		Calibrated	
	WS	WH	Ratio	Ratio	
	Background	186	857		
	Reference 1	17122	54541	0.315	0.320
	Reference 2	6855	25709	0.268	0.273
Field Check at Base					
		186.1	857.3		
Field Check					
		184.8	857.7		

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	1.19		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

Base Calibration on 20-APR-2004 12:25  
Field Calibration on 3-MAY-2004 10:29

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

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

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

Compact Knuckle Joint  
 OK L110 Length: 2.66 m Weight: 24.2 lb

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

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

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

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

26.17 m NPRL - Limestone Neutron Por.

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

23.48 m AVOL - Annular Volume  
23.48 m HVOL - Hole Volume  
23.48 m CLDC - Density Caliper  
23.27 m DCOR - Density Correction

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

23.27 m DEN - Compensated Density  
23.25 m PDPE - PE

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

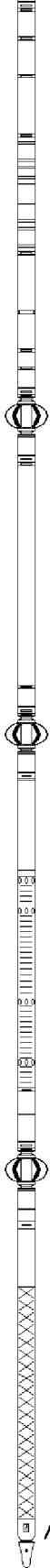
Compact Sonic  
MSS 47    Length: 3.82 m    Weight: 72.8 lb

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



Tool Zero (0.32m from bottom)

All measurements relative to tool zero.

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



Photo Density  
Compensated Neutron

**Compact**

Compensated Neutron  
1:500 TVD