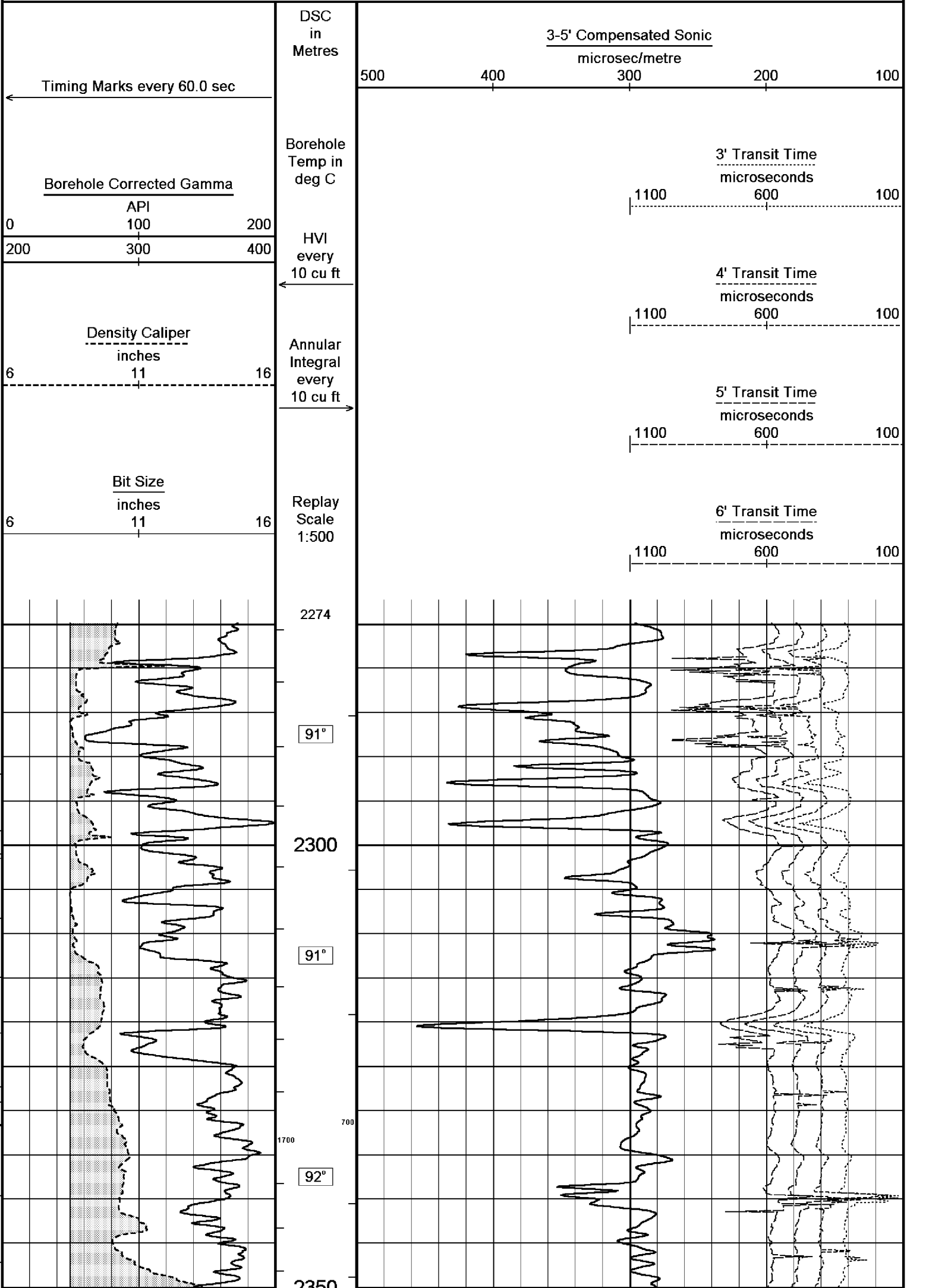
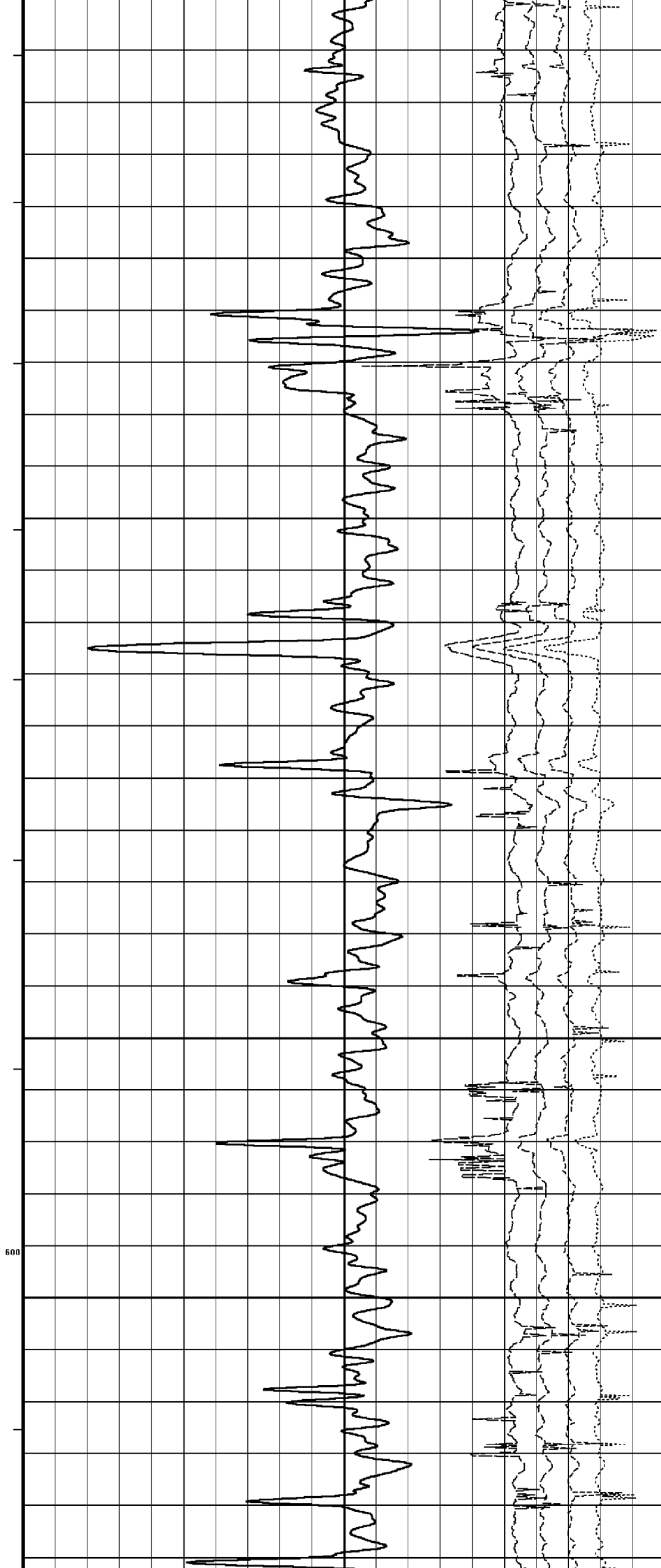
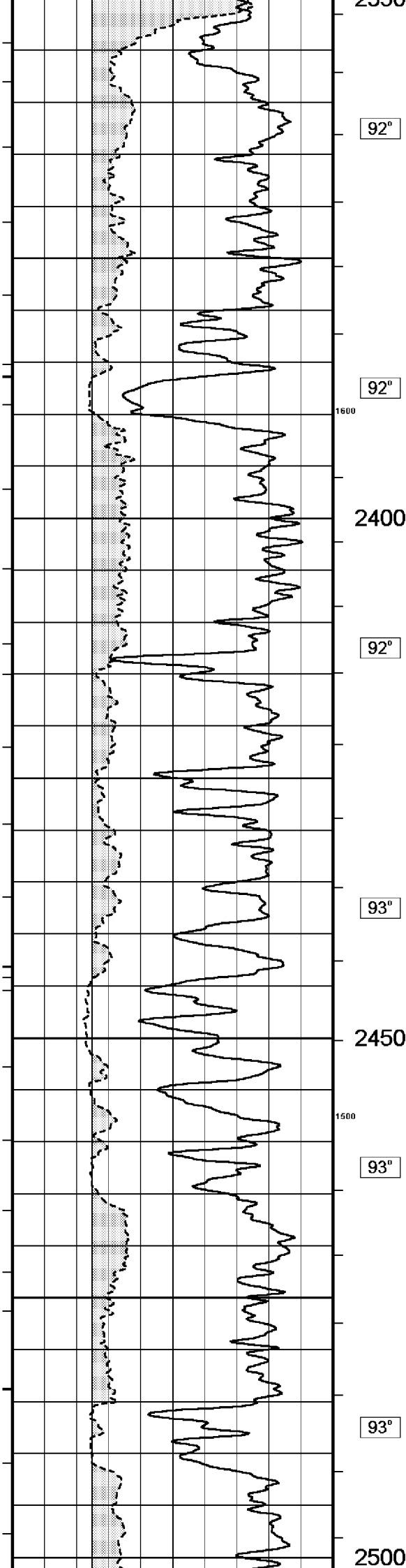


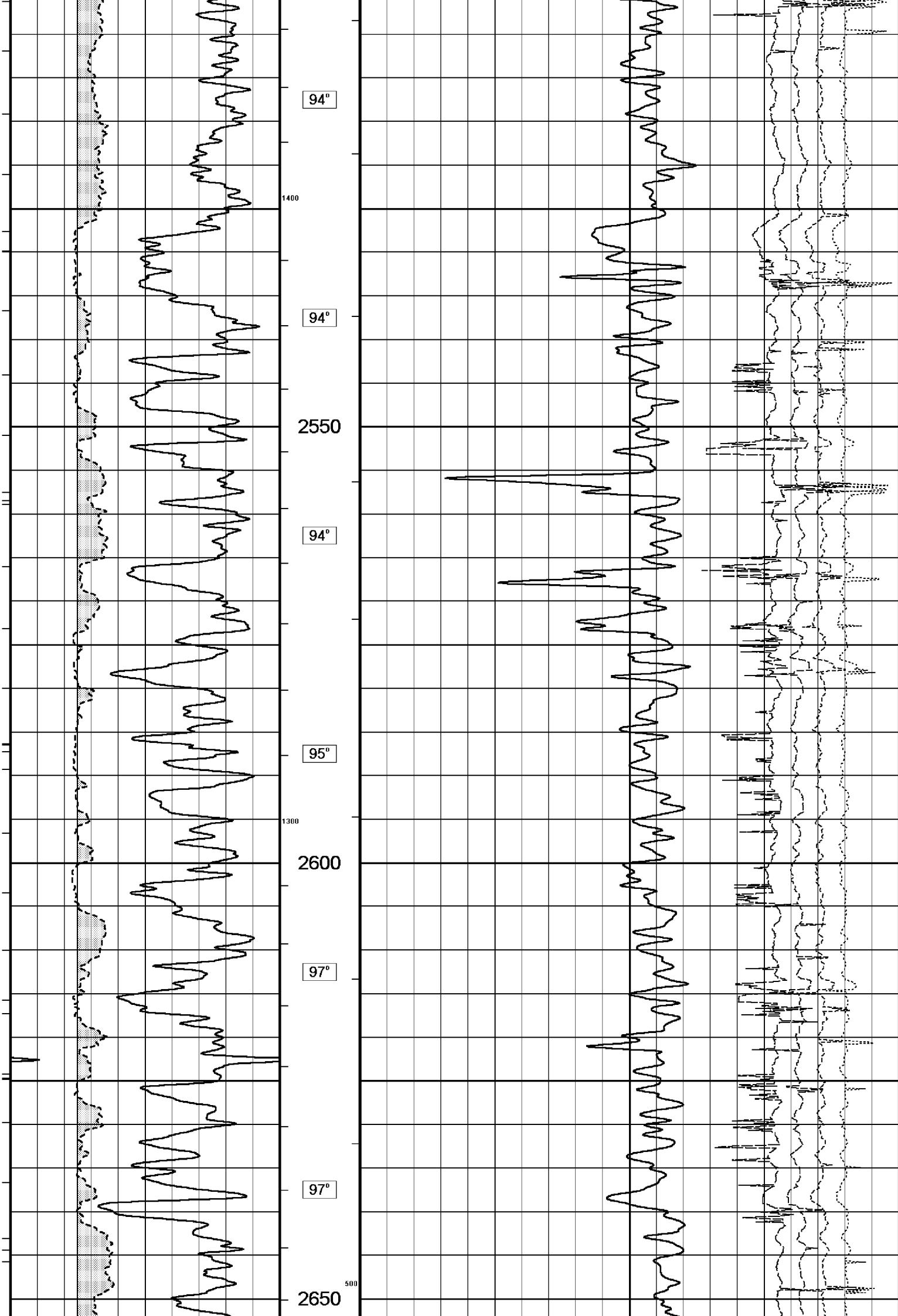
<div>Reeves</div> <div>Compact</div>			COMPENSATED SONIC			1:500 MD			
COMPANY			Esso Australia Pty Ltd						
WELL			Marlin A10a ST						
FIELD			Turrum						
PROVINCE/COUNTRY			Bass Strait						
COUNTRY/STATE			Australia						
LOCATION			38 13 49.320E , 148 13 15.712S						
			N 5767920.060 m , E 606868.950 m						
			[FINAL PRINT]						
LSD	SEC	TWP	RGE	Other Services			DUAL LATEROLOG		
API Number			VIC L3/L4			PHOTO DENSITY			
Permit Number			COMPENSATED NEUTRON						
Permanent Datum M.S.L.			, Elevation 0.00 metres			Elevations:			
Log Measured From R.T.			@ 27.91m above Permanent Datum			KB 27.91 metres			
Drilling Measured From R.T.						DF 27.91 metres			
Date			15-SEP-2004			GL -59.00 metres			
Run Number			One						
Depth Driller			3491.00 metres						
Depth Logger			3484.50 metres						
First Reading			3479.45 metres						
Last Reading			2275.00 metres						
Casing Driller			642.00 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						

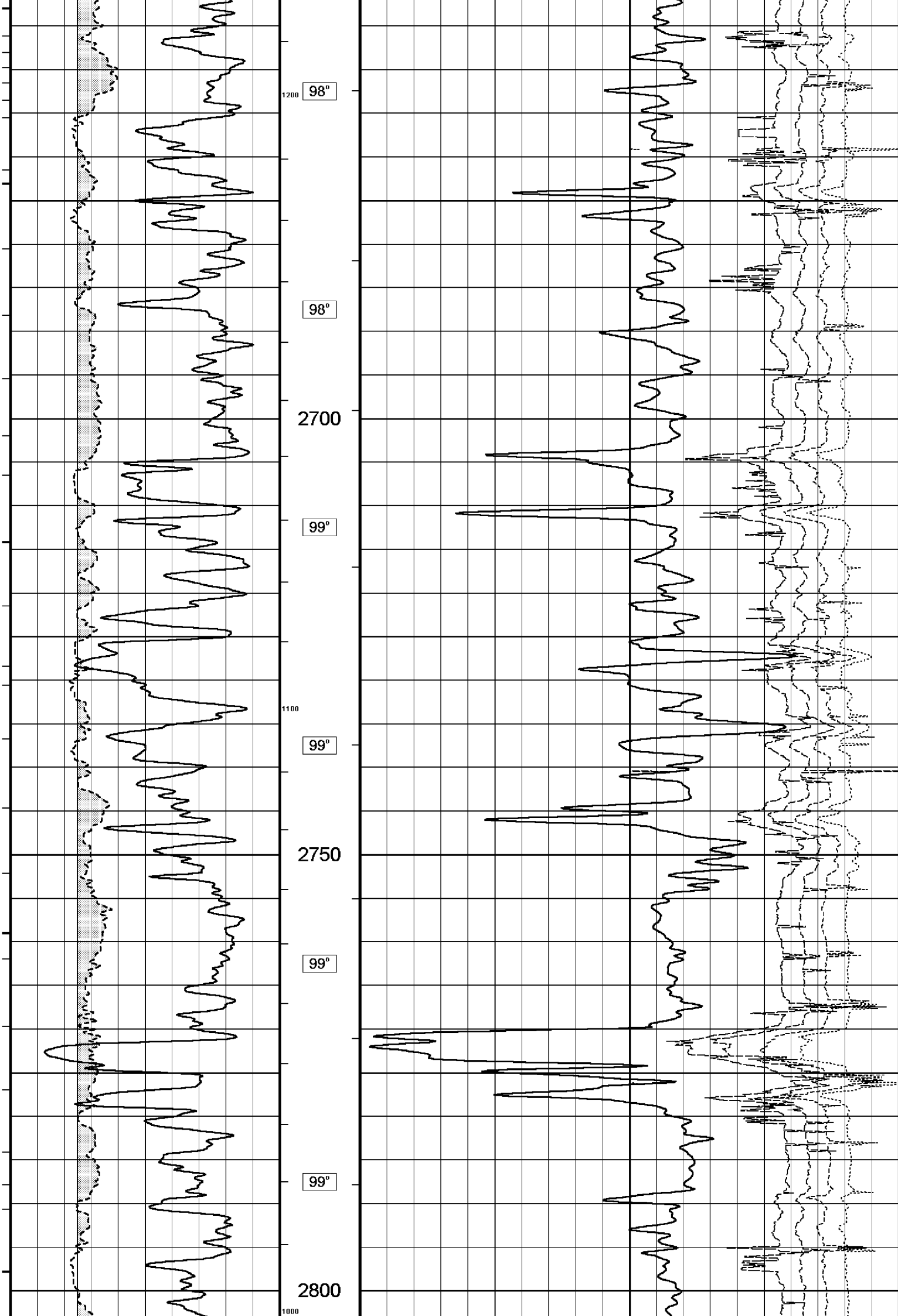
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		642.000		3491.000
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
J-55	13.375	0.000	642.000	54.40
REMARKS				
Drilling Rig: Nabors 453				
Crew: G McManus; R Tench; B Goodwin; M Susa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

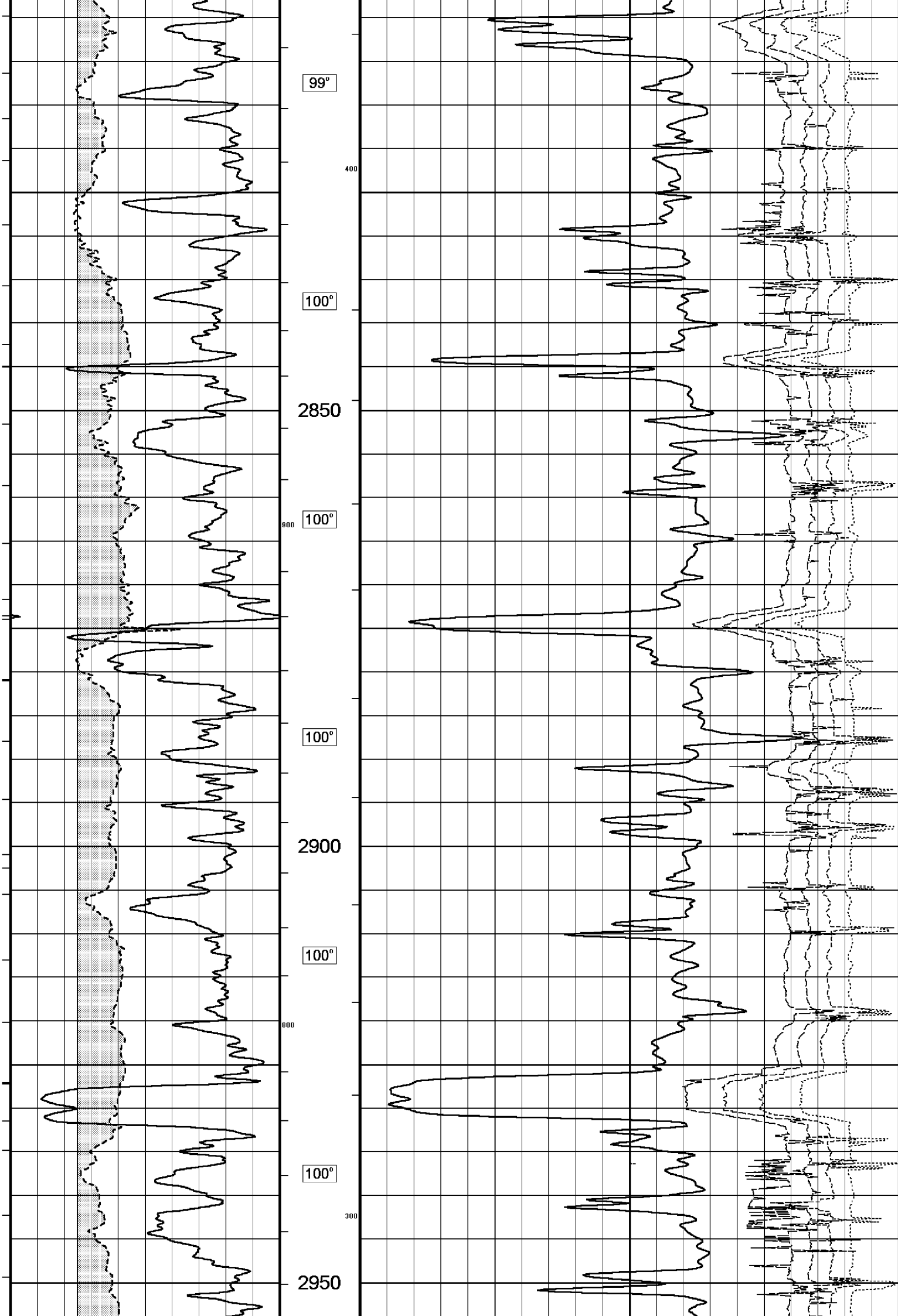
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

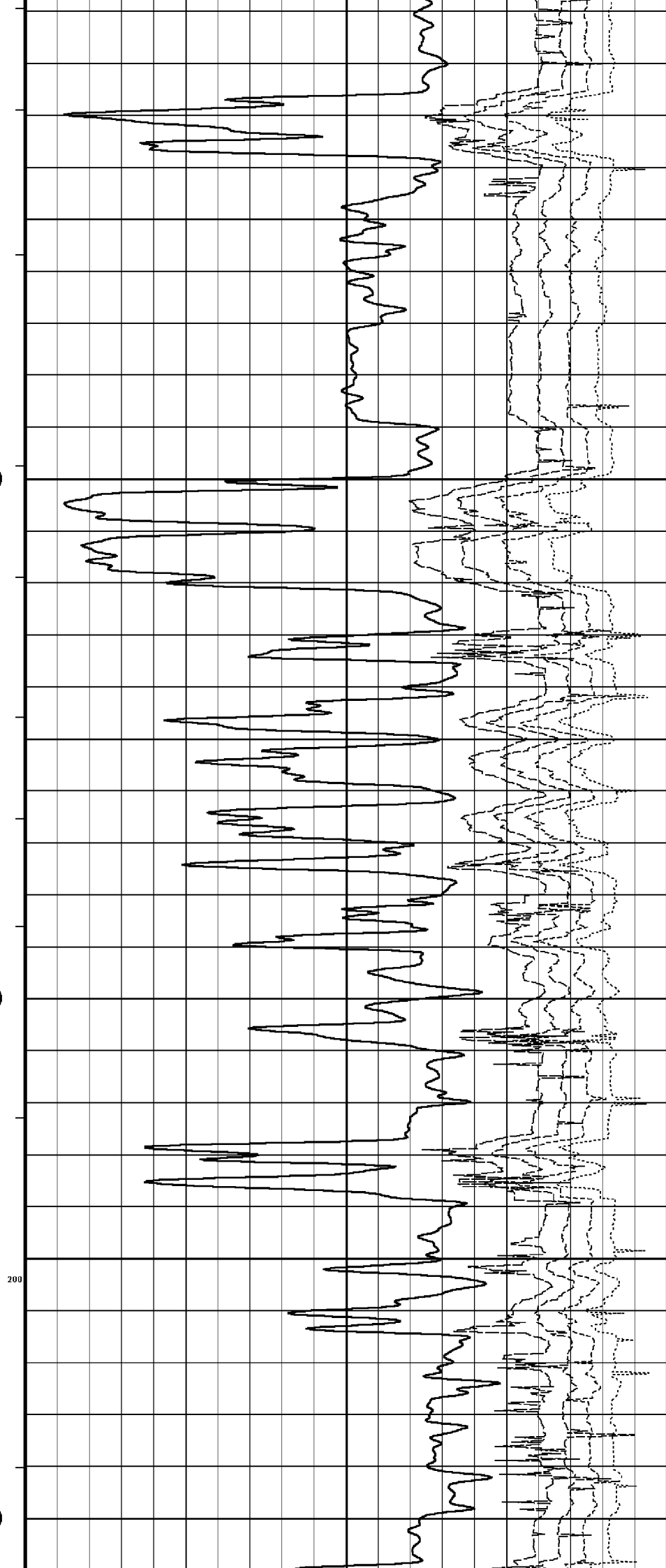
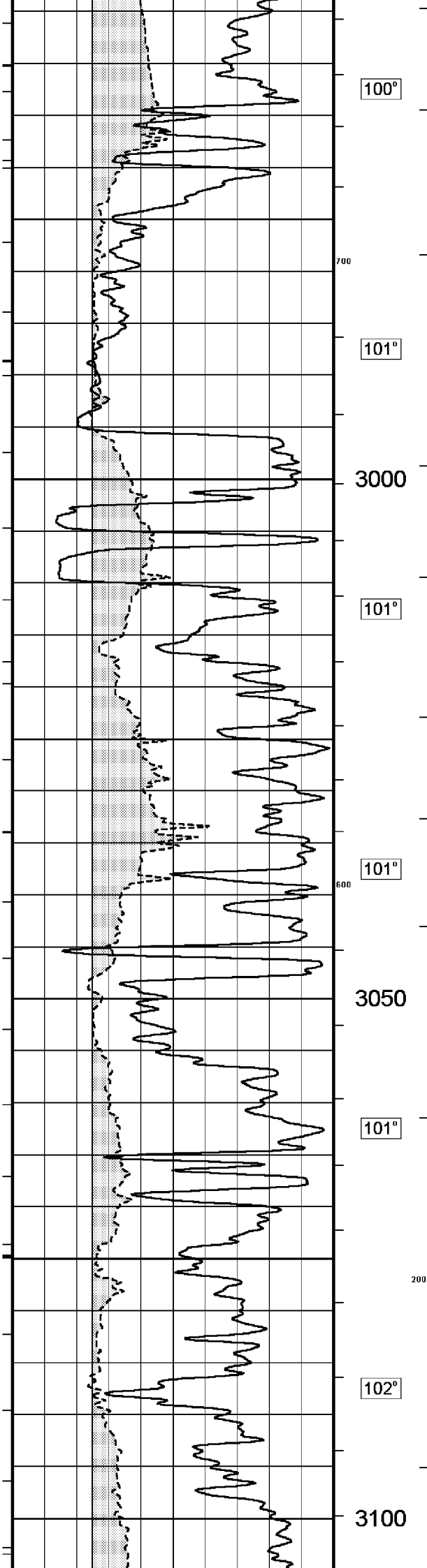


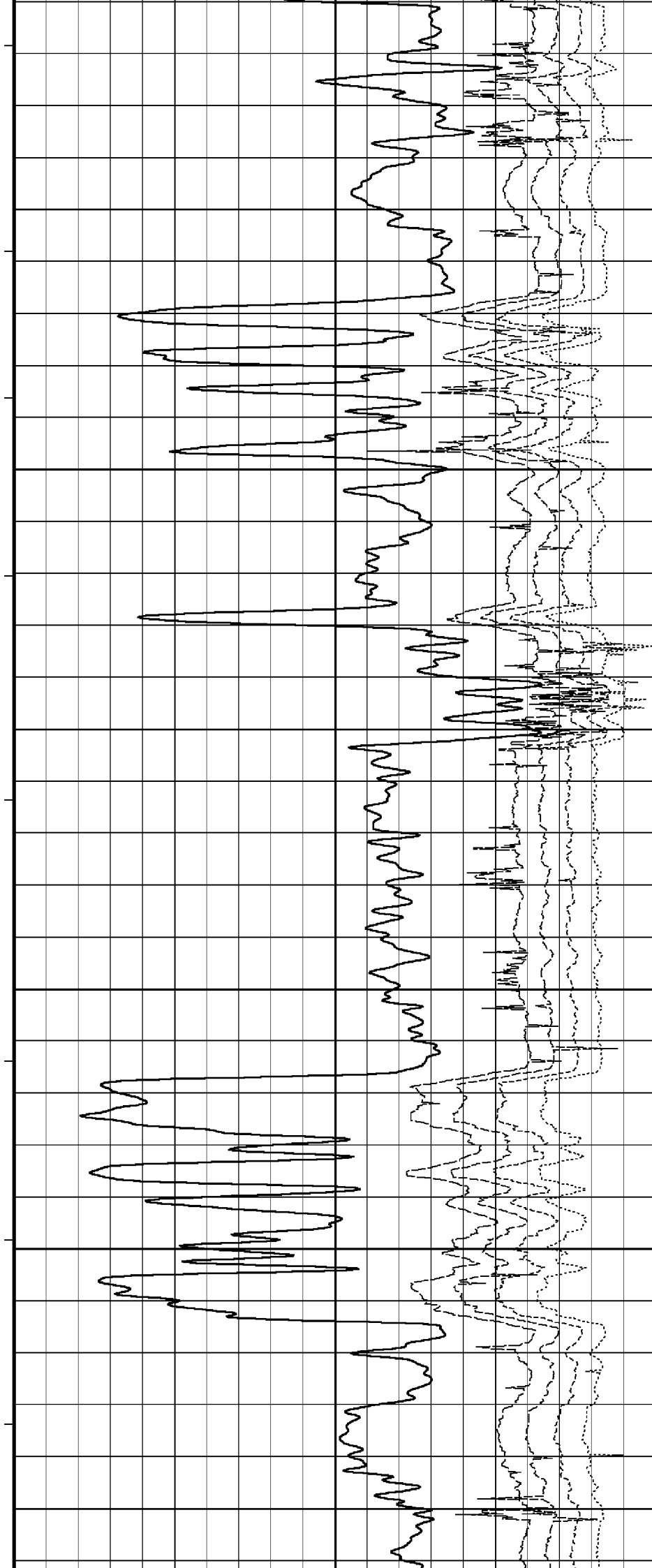
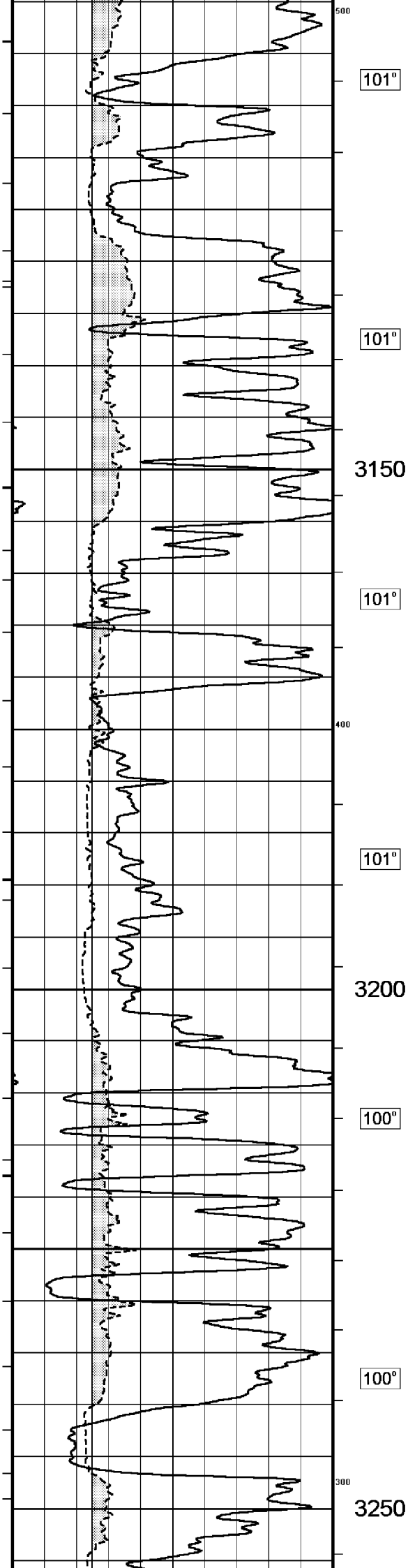


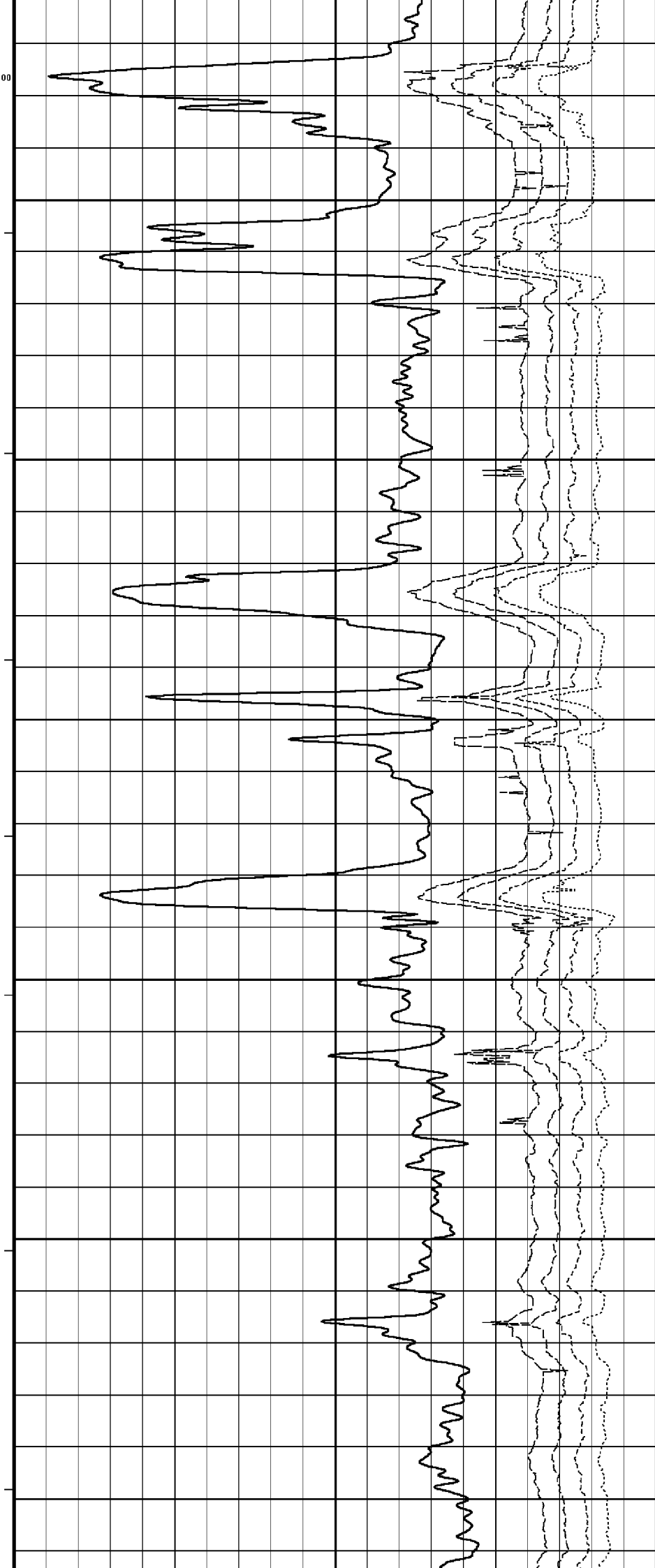
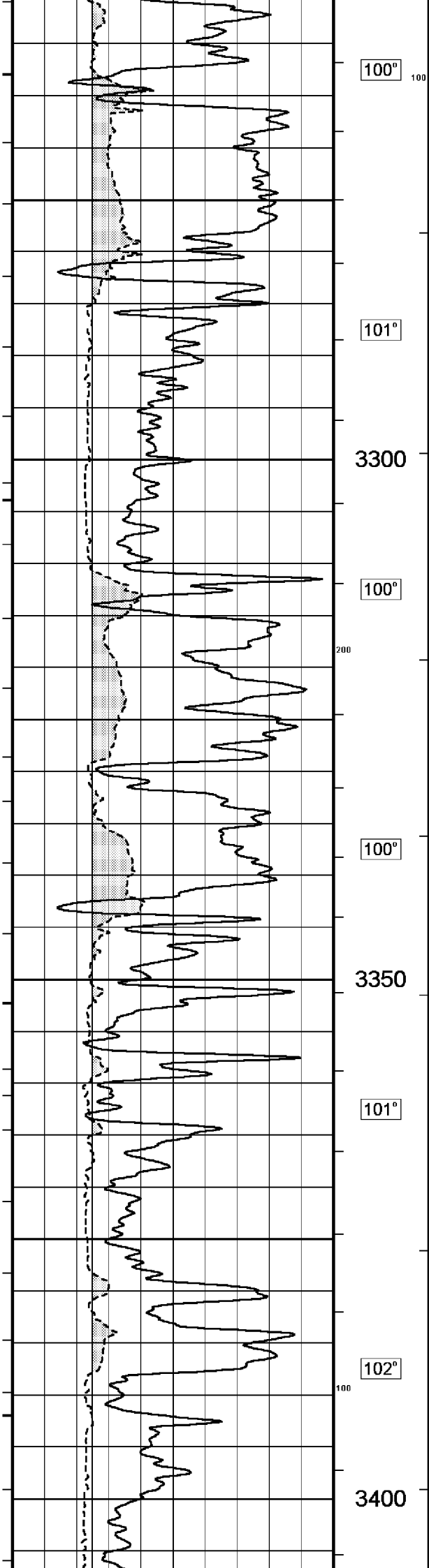


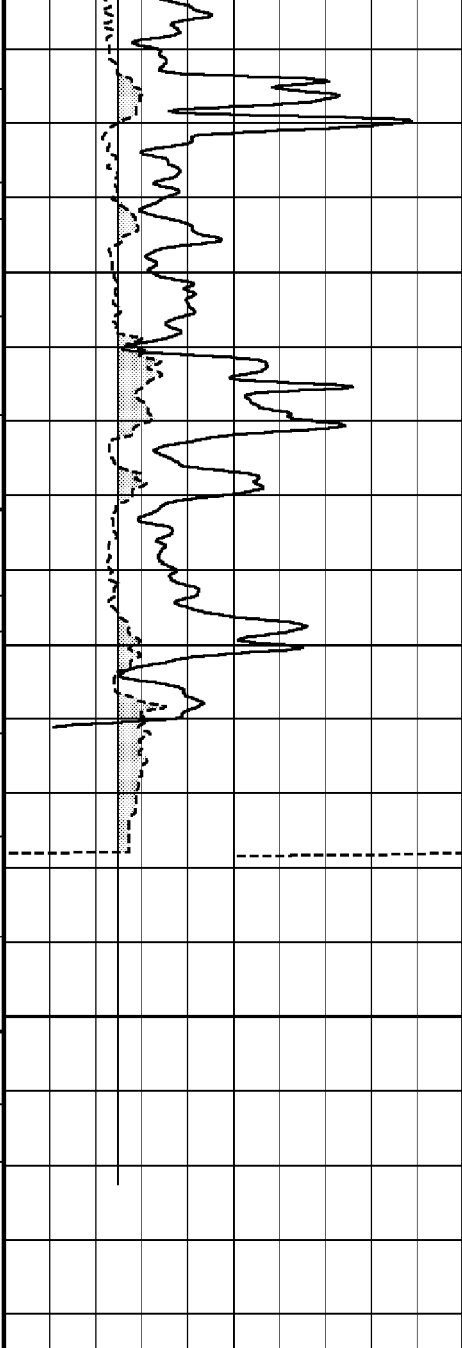












105°

114°

3450

3496
DSC
in
Metres

Timing Marks every 60.0 sec

Borehole Corrected Gamma

API

100

200

300

400

Density Caliper

inches

11

16

Bit Size

inches

11

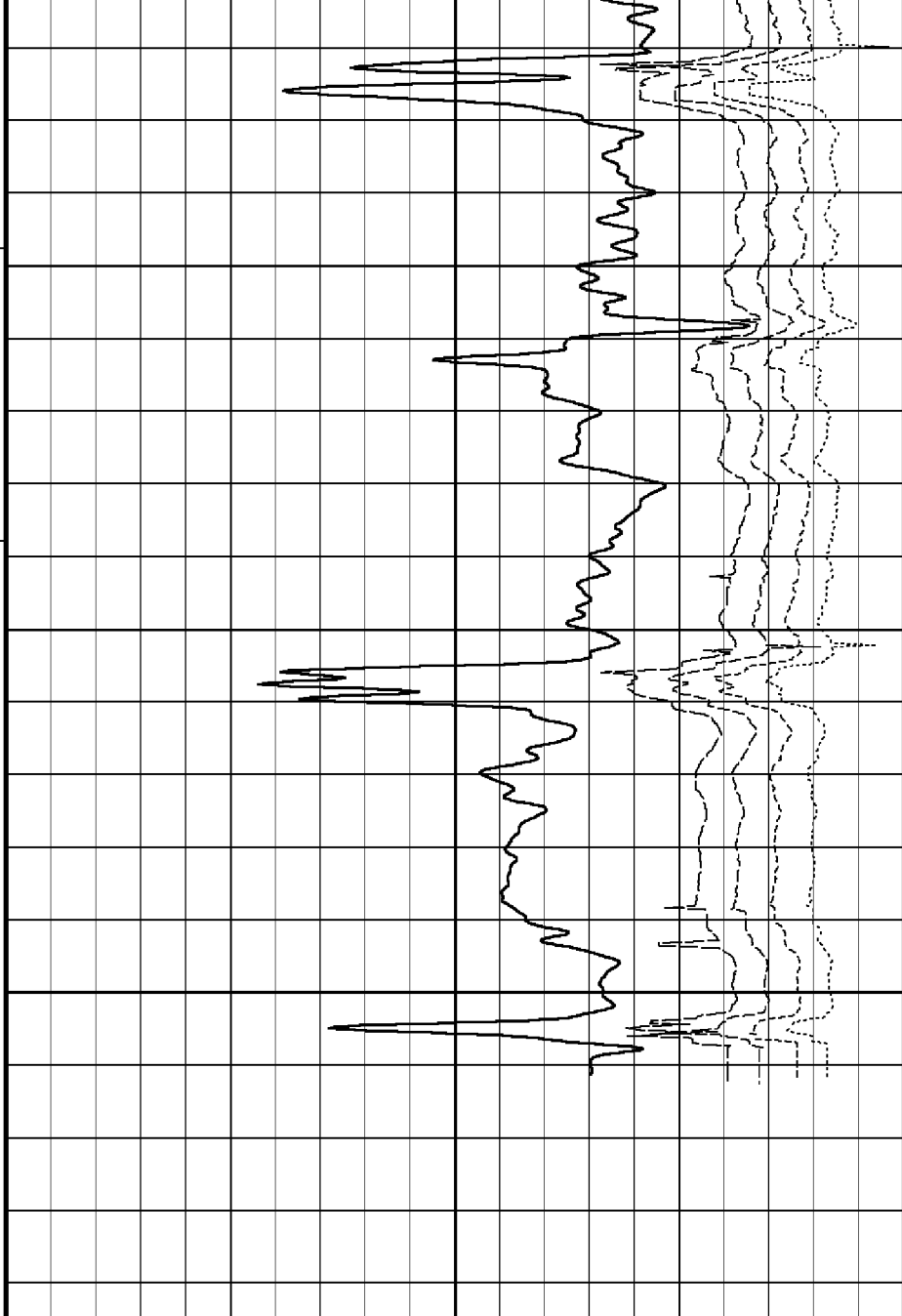
16

Borehole
Temp in
deg C

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1-500



3-5' Compensated Sonic
microsec/metre

500

400

300

200

100

3' Transit Time
microseconds

1100

600

100

4' Transit Time
microseconds

1100

600

100

5' Transit Time
microseconds

1100

600

100

6' Transit Time
microseconds

BEFORE SURVEY CALIBRATION				
C:\MLA A10AST\FINALS\BLACK AND WHITE PRESENTATIONS\MLA_A10AST_Main_Log_MSS.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)	Field Calibration on 10-FEB-2004,09:37	
Lower	0.00	0.00		
Upper	100.00	100.00		
High Resolution Temperature Constants MCG 043				
Pre-filter Length	11			
Gamma Calibration MCG 043				
	Measured	Calibrated (API)	Field Calibration on 13-SEP-2004 17:13	
Background	7	4		
Calibrator (Gross)	1404	913		
Calibrator (Net)	1397	909		
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		
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		
Sonic Constants MSS 047				
Maximum Boundary Contrast	328.08	micro-sec/m		
Fluid Transit Time	620.08	micro-sec/m		
Limestone Transit Time	155.04	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:\MLA A10AST\FINALS\BLACK AND WHITE PRESENTATIONS\MLA_A10AST_Main_Log_MSS.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

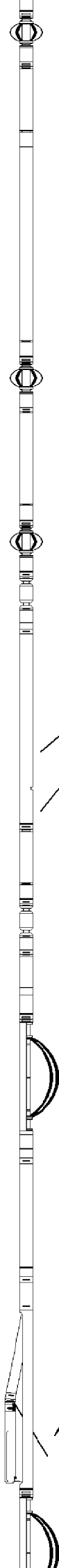
Compact Swivel Head Adaptor
SHA 71 Length: 0.83 m Weight: 26.5 lb

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



31.38 m
30.50 m

GGCE - Borehole Corrected Gamma
CGXT - MCG External Temperature

22.65 m
22.65 m
22.65 m

AVOL - Annular Volume
HVOL - Hole Volume
CLDC - Density Caliper

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

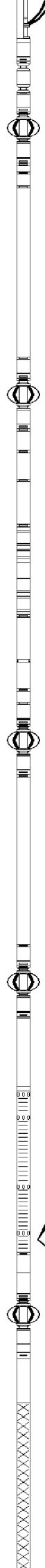
Compact Inline Standoff B
MIS 130 Length: 0.65 m Weight: 15.4 lb

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



4.60 m TR21 - 3' Transit Time
4.60 m TR12 - 6' Transit Time
4.60 m TR22 - 5' Transit Time
4.60 m TR11 - 4' Transit Time

4.60 m DT35 - 3-5' Compensated Sonic

Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

Total Length: 53.77 m Weight: 1298.5 lb



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

Elevation Kelly Bushing		metres	First Reading	3479.45	metres
Elevation Drill Floor	27.91	metres	Depth Driller	3491.00	metres
Elevation Ground Level	-59.00	metres	Depth Logger	3484.50	metres

Reeves

Compact

COMPENSATED SONIC
1:500 MD