

Reeves

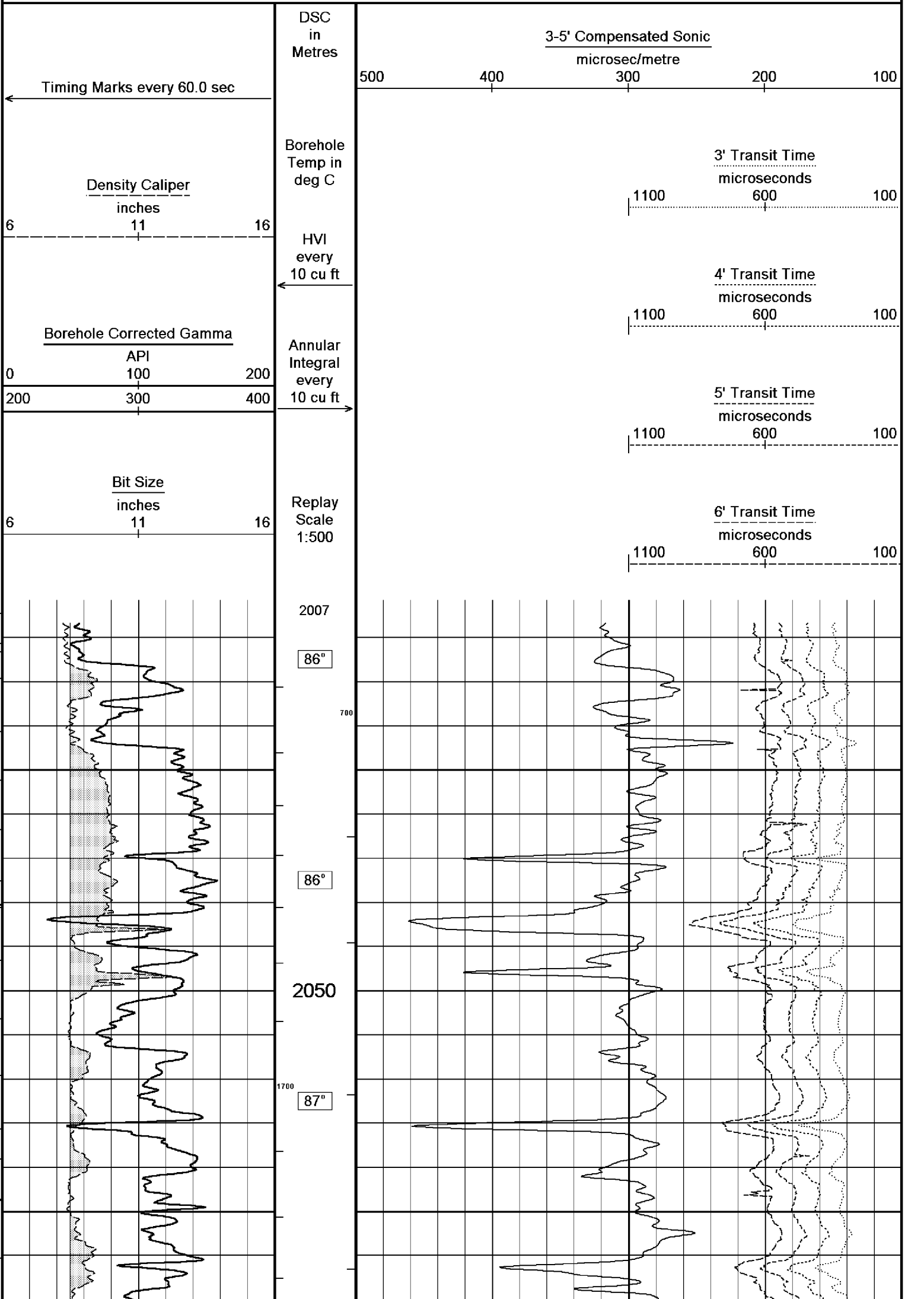
Compact

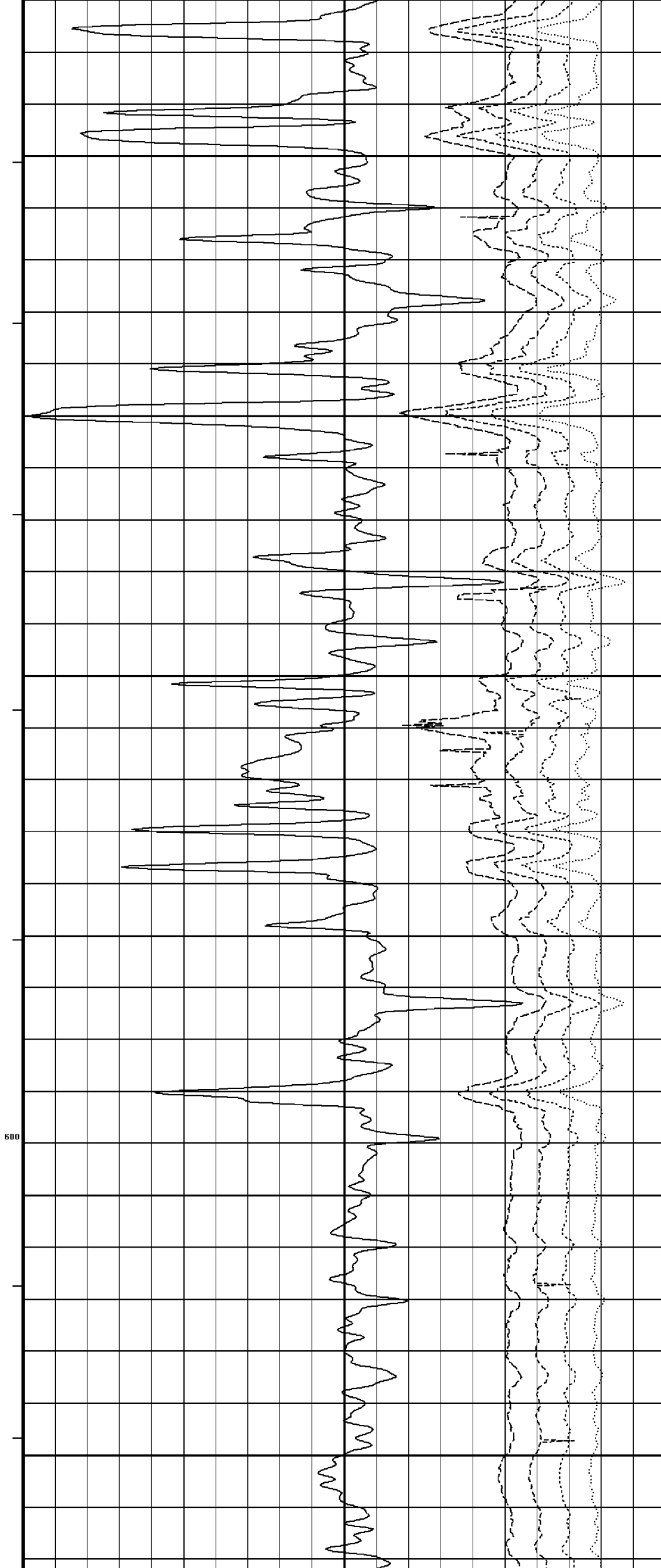
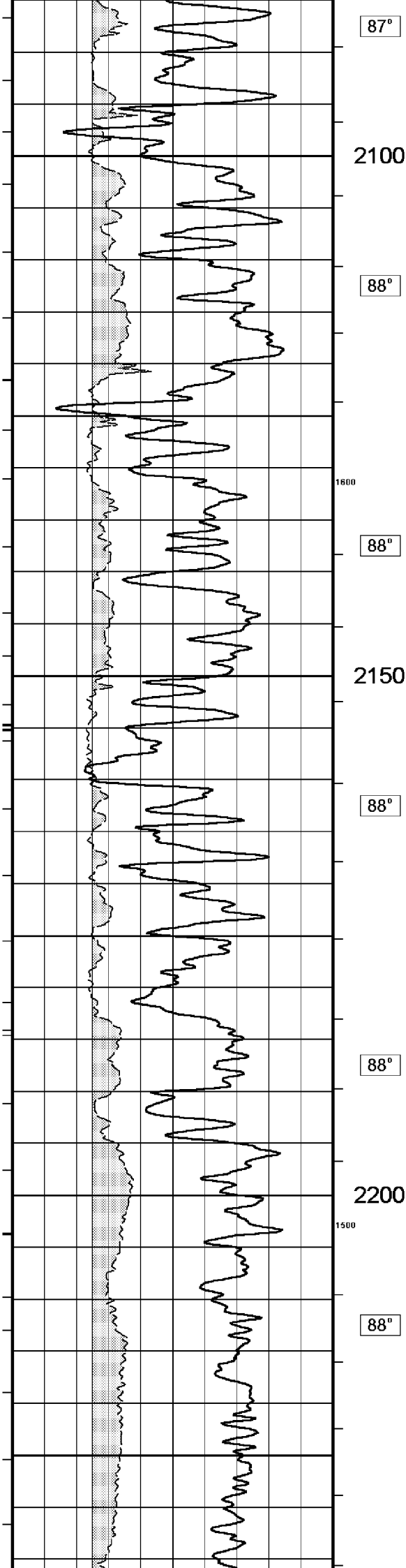
COMPENSATED SONIC 1:500 MD

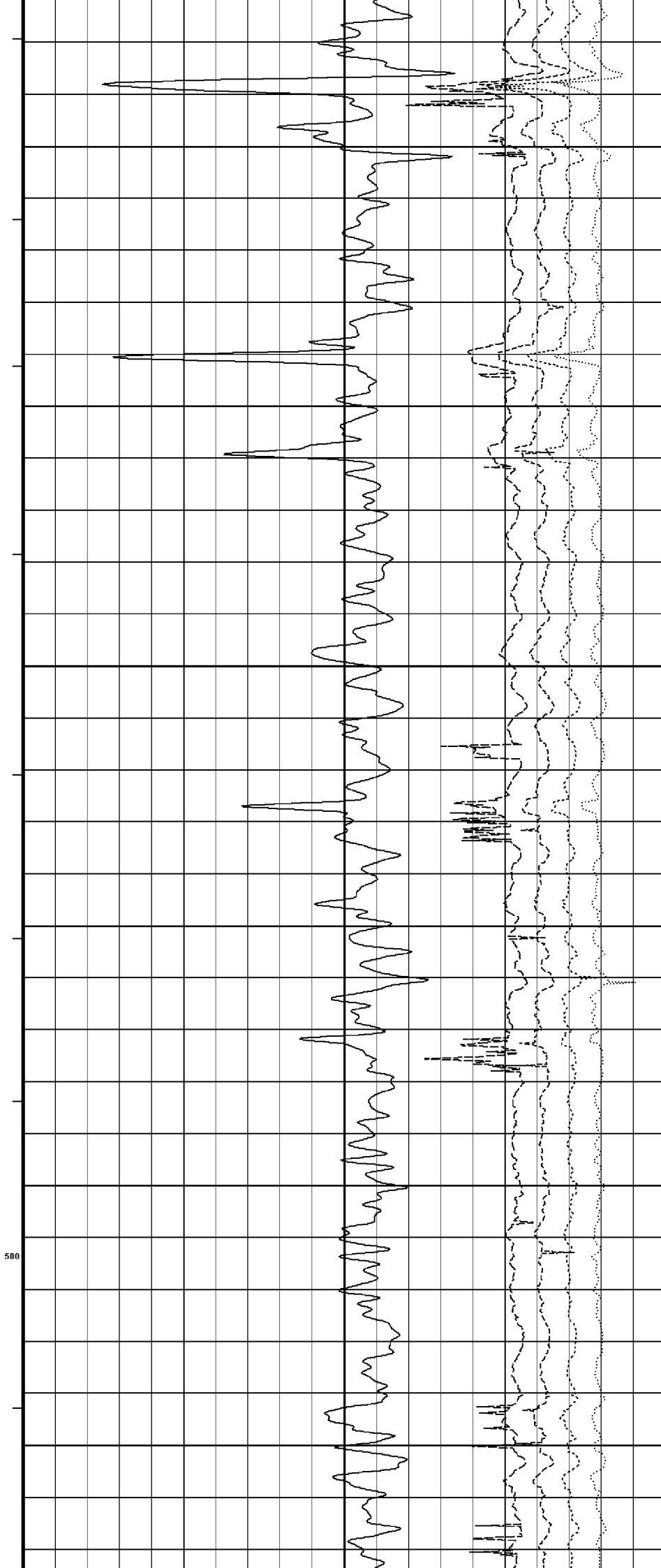
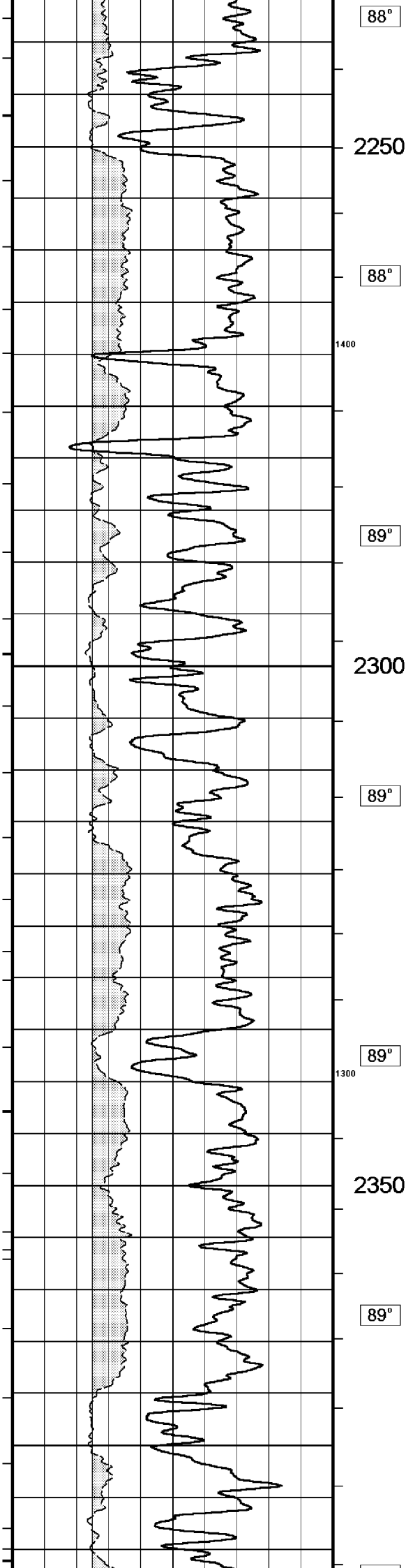
COMPANY	ESSO AUSTRALIA PTY. LTD.		
WELL	MARLIN A24A		
FIELD	TURRUM		
PROVINCE/COUNTY	BASS STRAIT		
COUNTRY/STATE	AUSTRALIA		
LOCATION	38Deg13'49.203"S, 148Deg13'15.554"E N 5767923.720 m, E 606865.170 m		
LSD	SEC	TWP	RGE
API Number	Other Services DUAL LATEROLOG PHOTO DENSITY COMPENSATED NEUTRON		
Permit Number	VIC/L11		
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	3275.00	metres	
Depth Logger	3270.50	metres	
First Reading	3270.12	metres	
Last Reading	2008.50	metres	
Casing Driller	653.00	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. MENHENITT, L. CULLEN		
Circ. Stopped	1400 4-MAY		

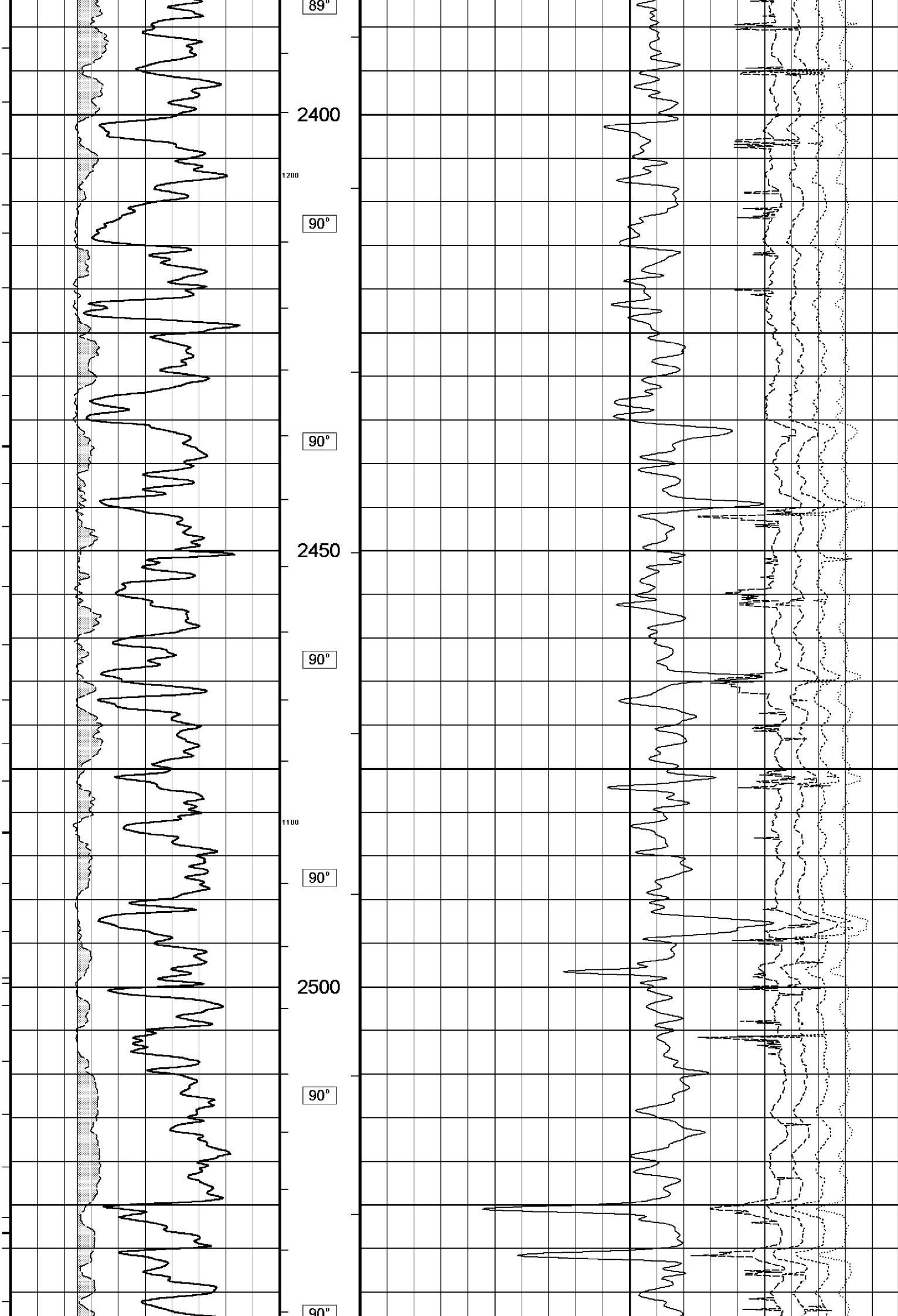
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		653.000		3275.000
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	13.375	0.000	653.000	0.00
L80	9.625	0.000	653.000	47.00
REMARKS				
Miss Run - No data collected above 2008.5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

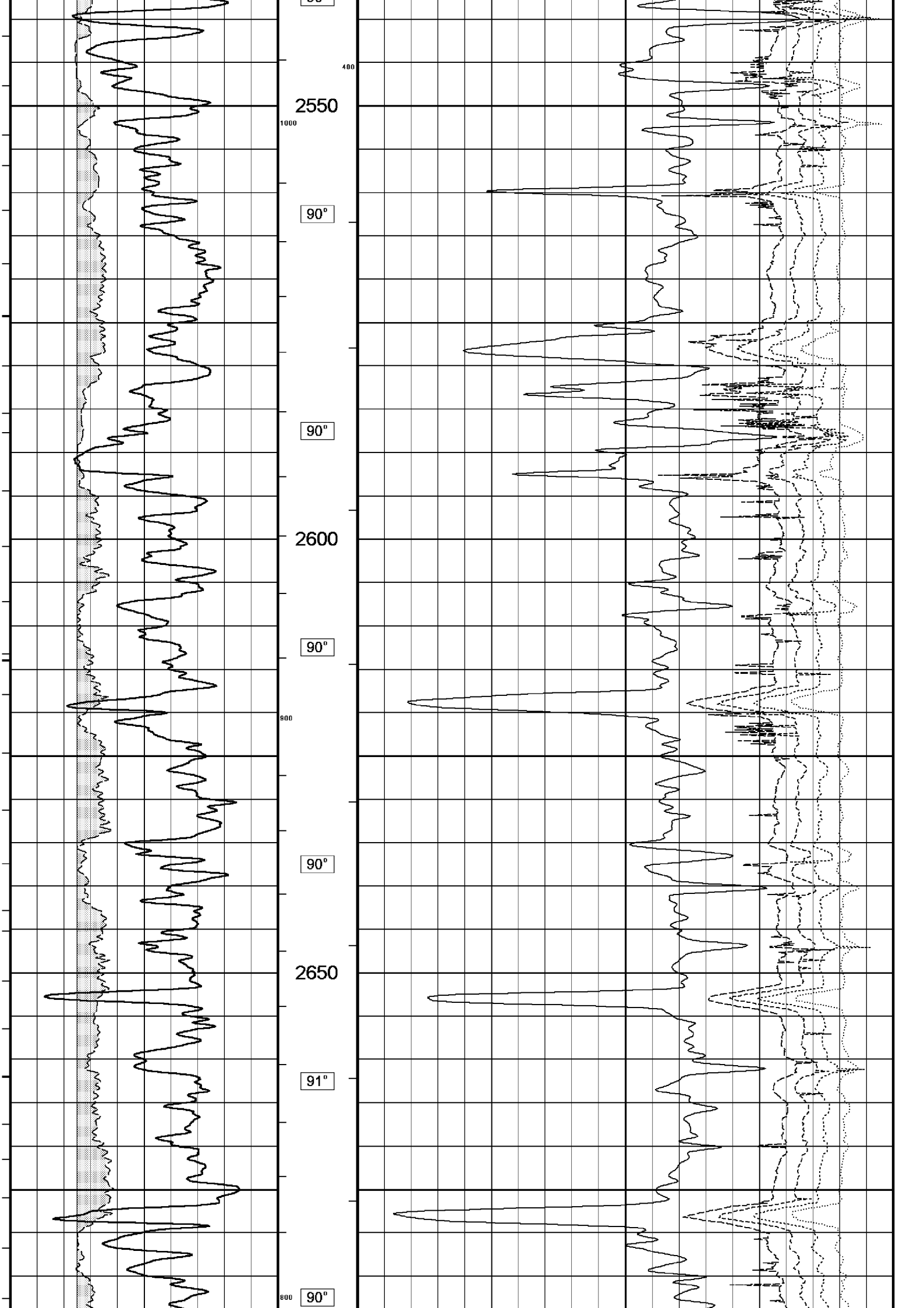
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

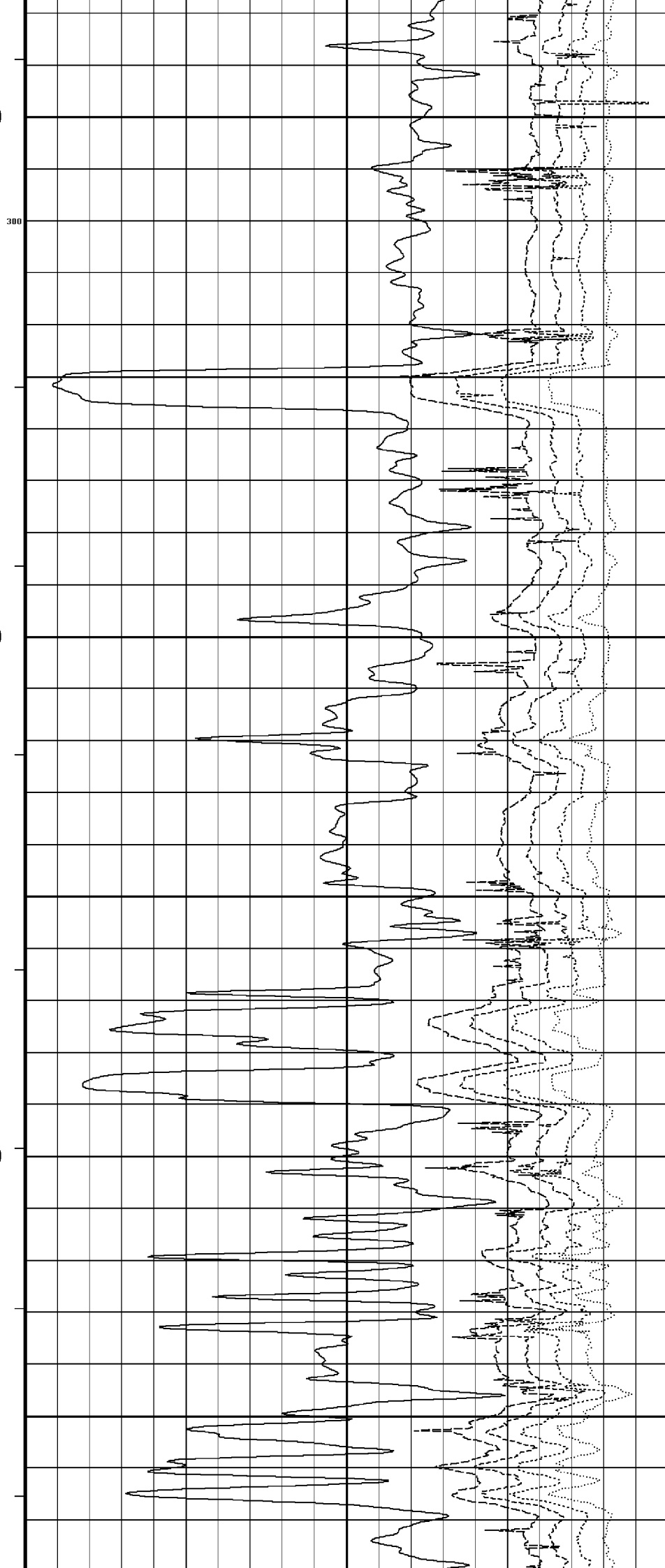
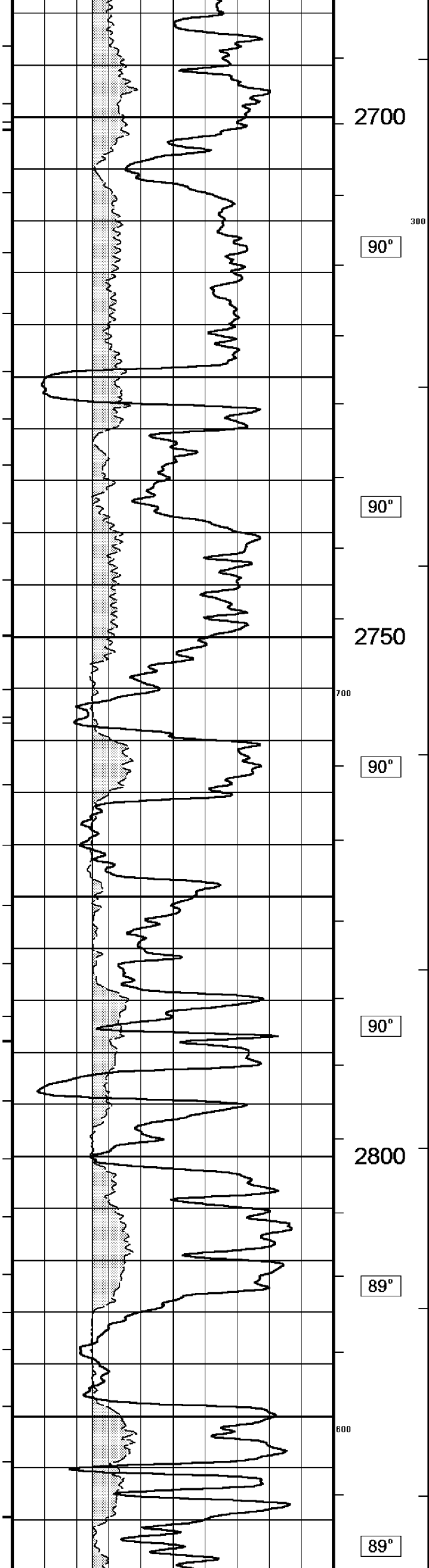


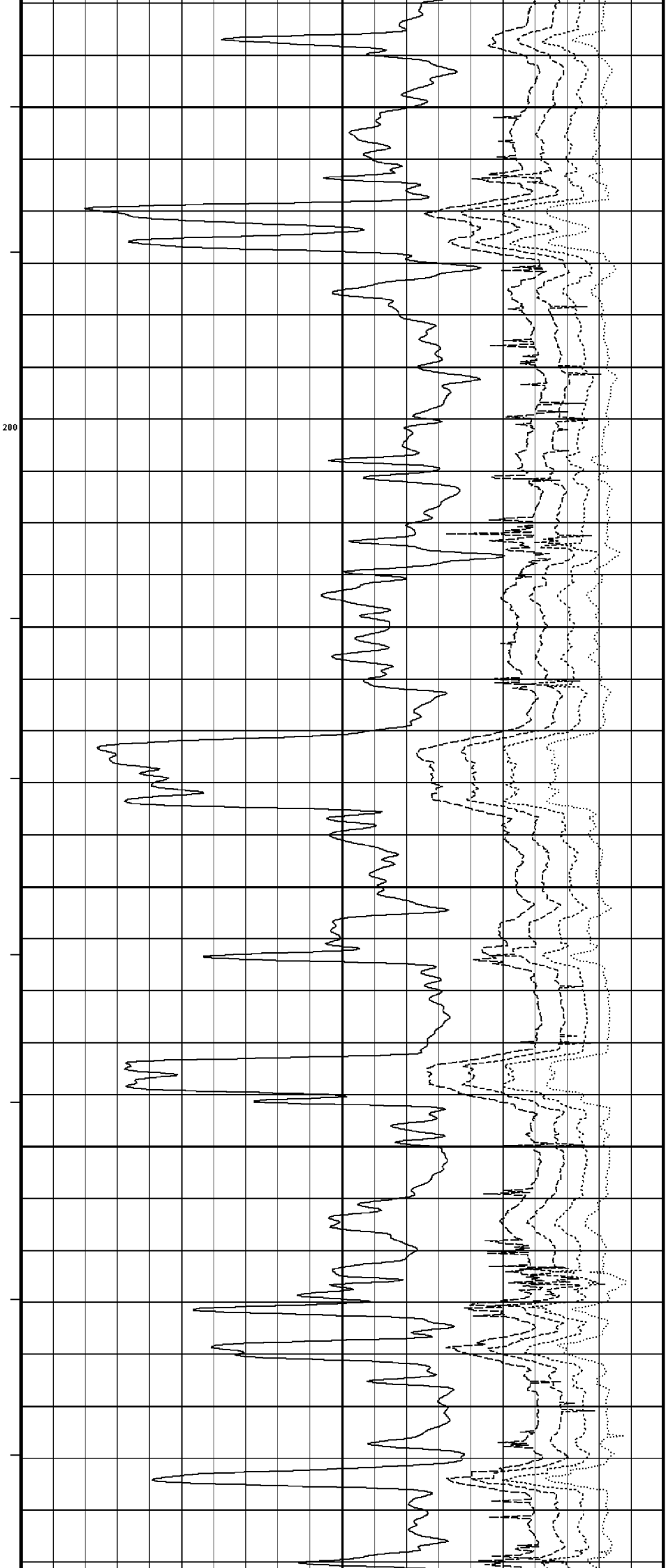
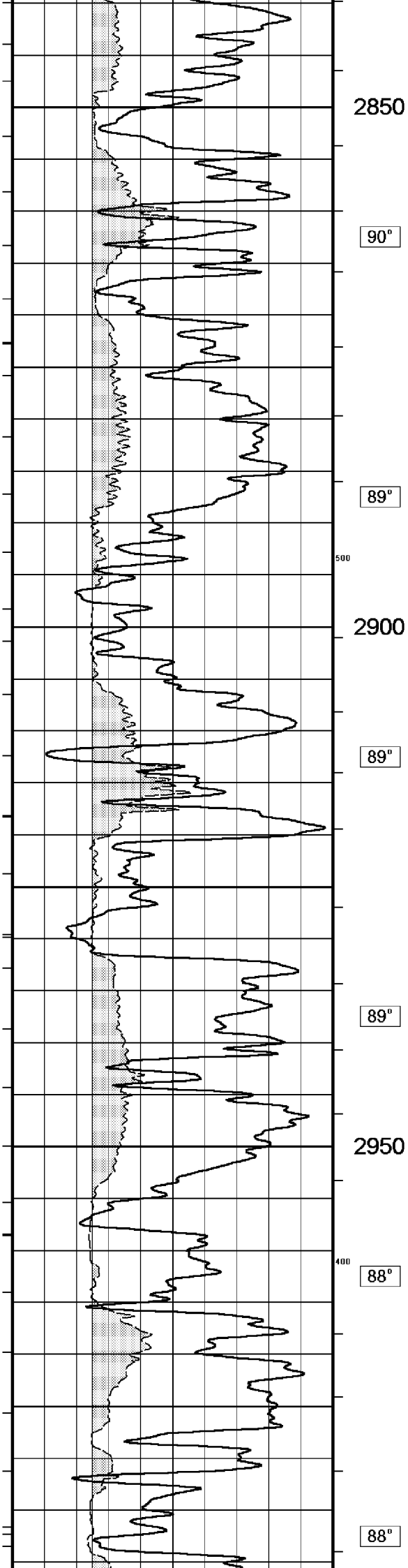


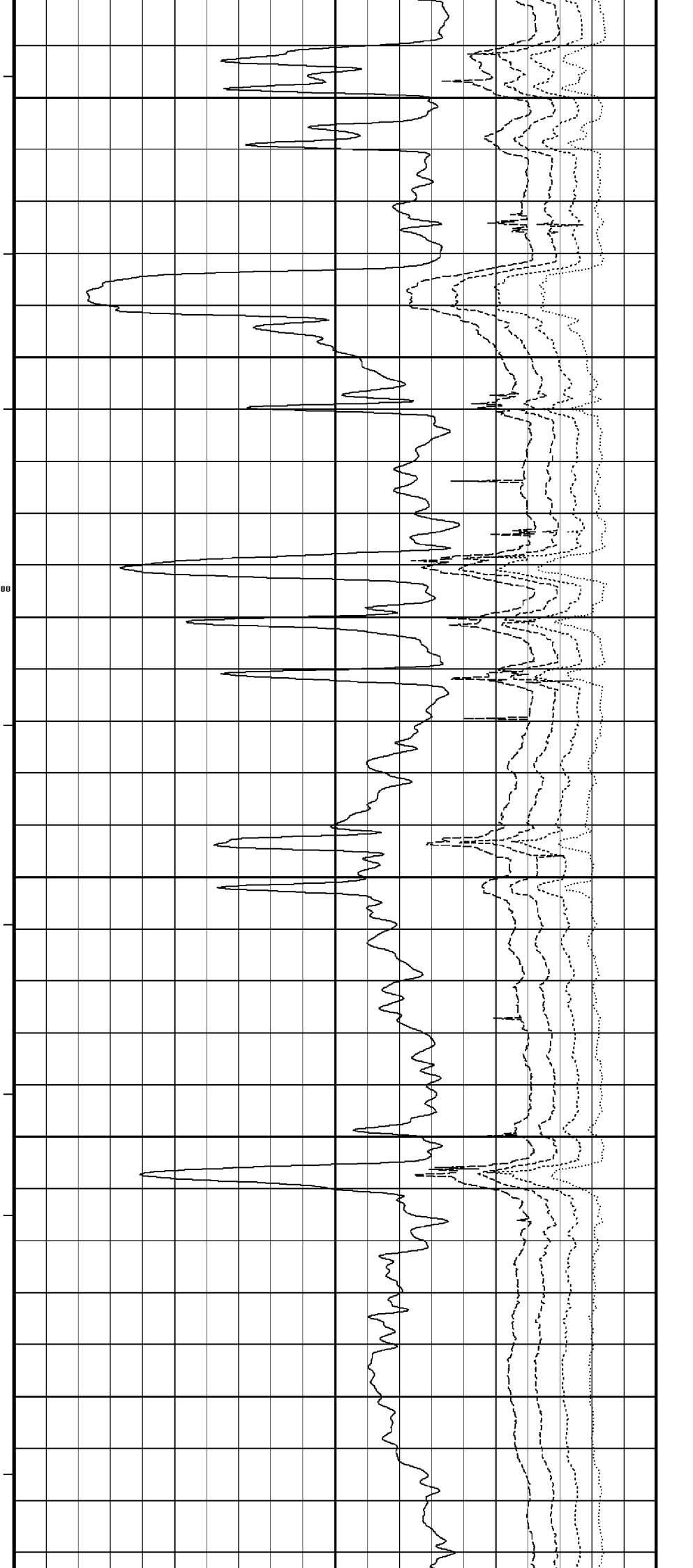
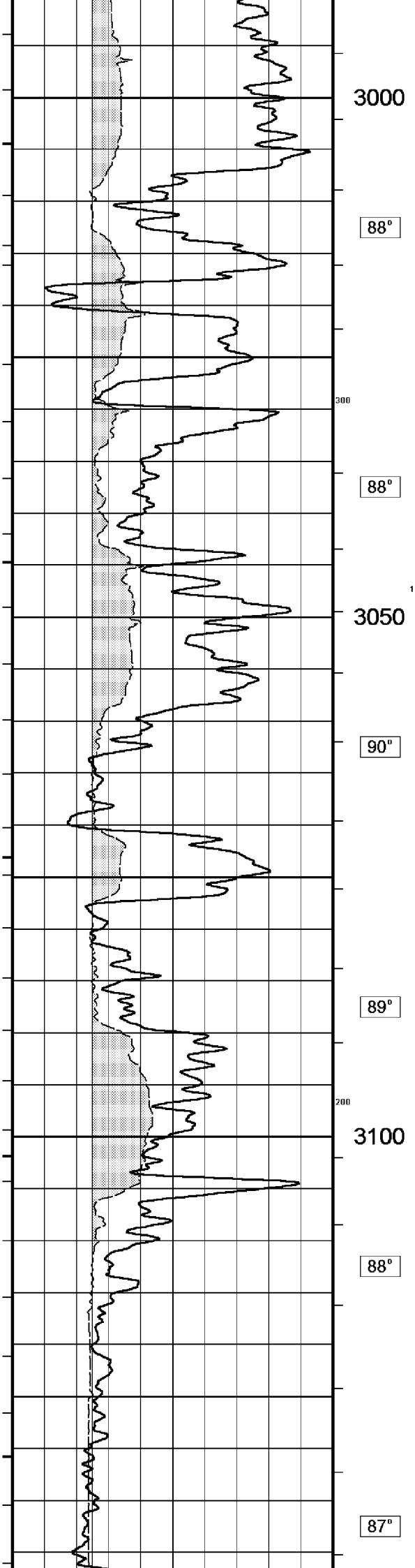


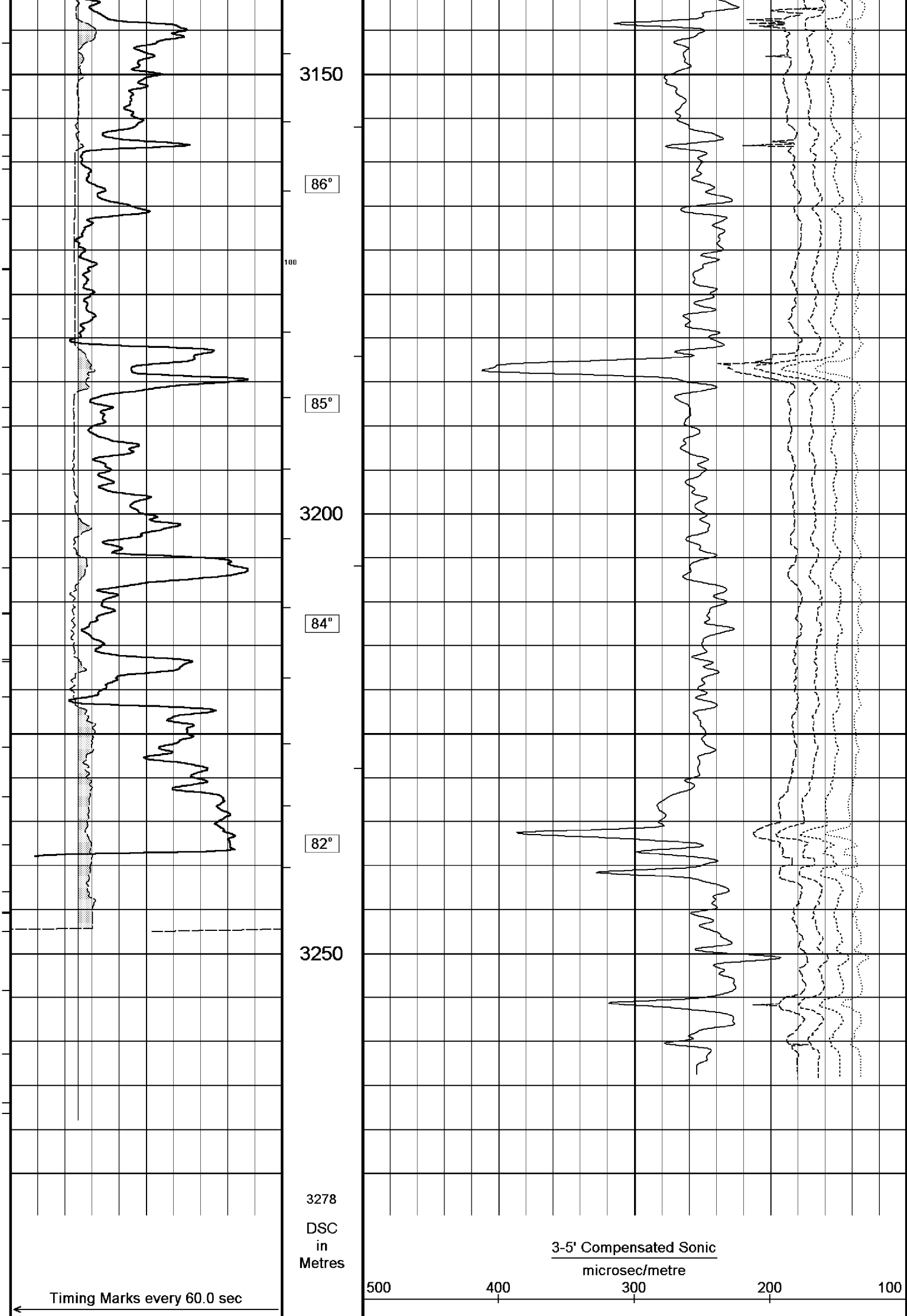


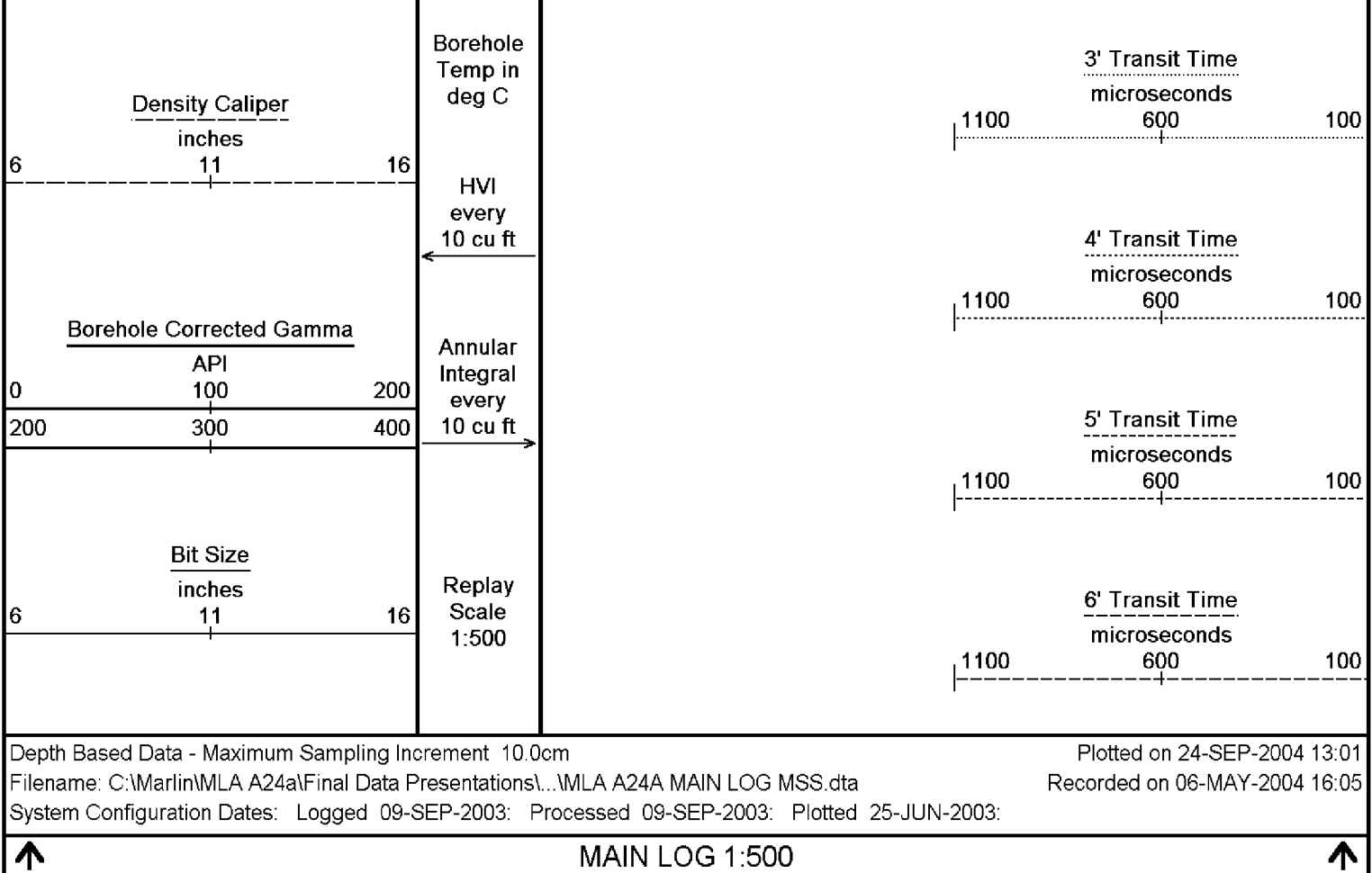












BEFORE SURVEY CALIBRATION

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

Caliper Calibration MPD 083

Base Calibration on 20-APR-2004 12:25

Field Calibration on 3-MAY-2004 10:29

Base Calibration

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

Field Calibration

Measured Caliper (in)

Actual Caliper (in)

7.96

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

155.84

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

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

Compact Swivel Head Adaptor

SHA 63 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint

SKJ 49 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 141 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 127 Length: 0.65 m Weight: 15.4 lb

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

Compact Knuckle Joint
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

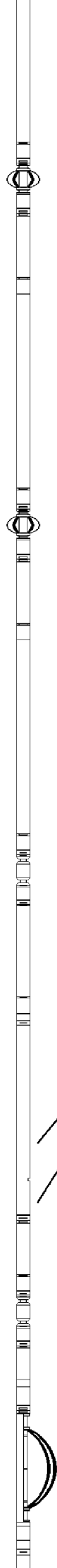
Compact Memory Sub.
MMS 24 Length: 0.95 m Weight: 22.0 lb

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: 1.52 m Weight: 50.7 lb



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

MDN 83 Length: 1.53 m Weight: 50.7 lb

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

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

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

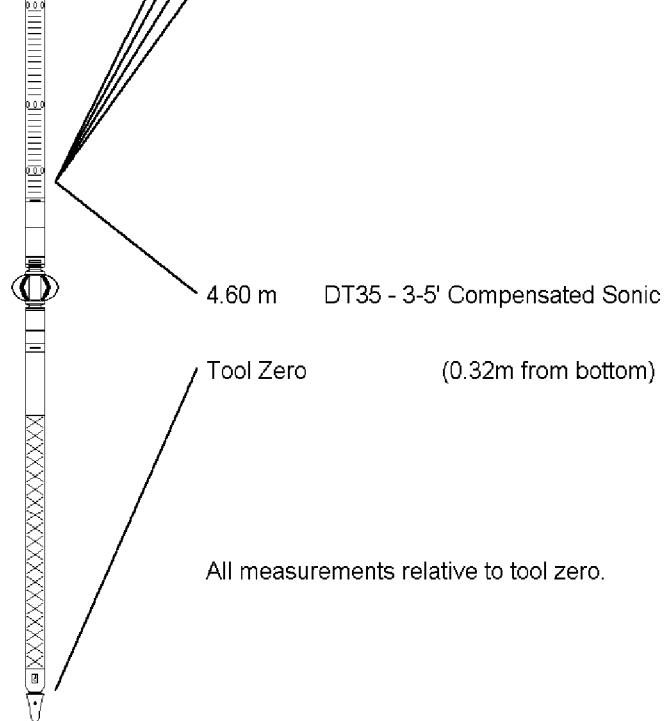
4.60 m TR21 - 3' Transit Time
4.60 m TR12 - 6' Transit Time
4.60 m TR22 - 5' Transit Time
4.60 m TR11 - 4' Transit Time

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



COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	MARLIN A24A
FIELD	TURRUM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	3270.12	metres
Elevation Drill Floor	27.91	metres	Depth Driller	3275.00	metres
Elevation Ground Level	-59.00	metres	Depth Logger	3270.50	metres



COMPENSATED SONIC
1:500 MD