

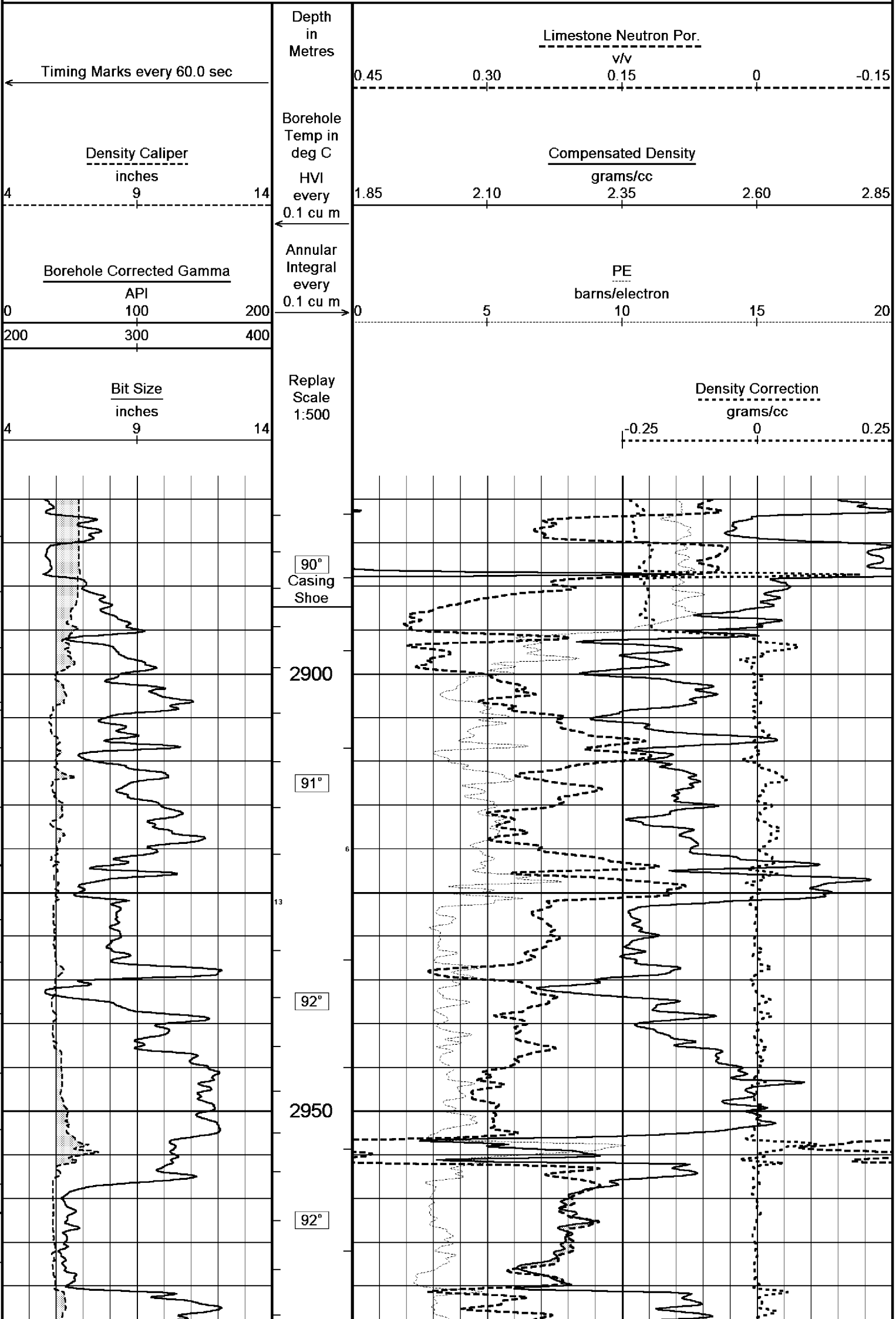
# Reeves

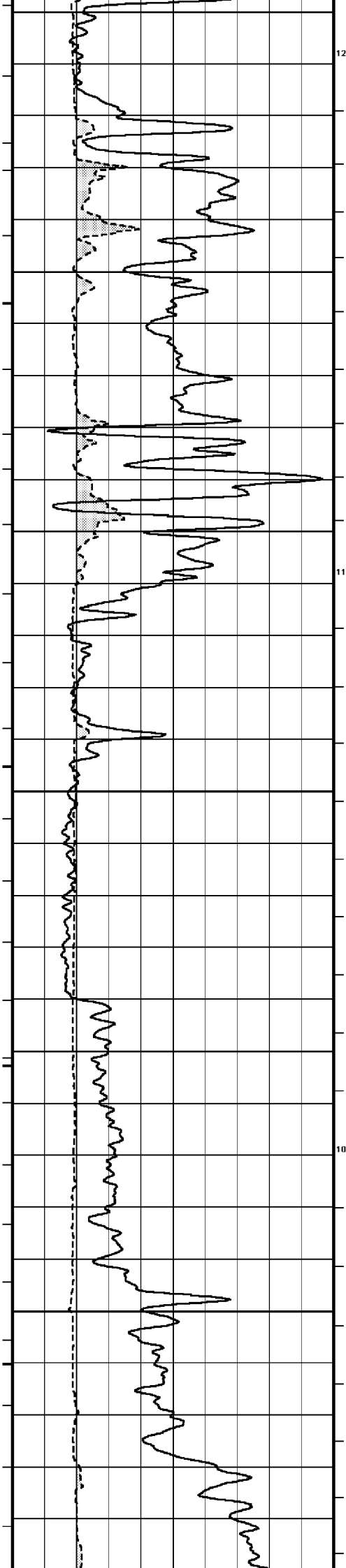
## PHOTO DENSITY COMPENSATED NEUTRON 1:500 MD

COMPANY	ESSO AUSTRALIA PTY. LTD.		
WELL	FLOUNDER A-17a		
FIELD	GIPPSLAND BASIN		
PROVINCE/COUNTY	BASS STRAIT		
COUNTRY/STATE	AUSTRALIA		
LOCATION	5758711.37 m N, 625853.66 m E 38°18'39.158" S, 148°26'22.270" E		
LSD	SEC	TWP	RGE
API Number	Other Services DUAL LATEROLOG		
Permit Number	COMPENSATED SONIC		
Permanent Datum MSL	, Elevation 0 metres		Elevations: KB DF 33.85 metres GL -93.00 metres
Log Measured From RT@33.85 metres above Permanent Datum			
Drilling Measured From RT			
Date	17-Aug-2003		
Run Number	2		
Depth Driller	3660.00 metres		
Depth Logger	3646.00 metres		
First Reading	3639.70 metres		
Last Reading	2892.30 metres		
Casing Driller	2904.00 metres		
Casing Logger	2892.30 metres		
Bit Size	6.00 inches		
Hole Fluid Type	KC/PPH/PA/GLY		
Density / Viscosity	9.20 lb/USg 70.00 sec/qt		
PH / Fluid Loss	9.30 3.10 ml/30Min		
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.101 @ 25.0 ohm-m		
Rmf @ Measured Temp	0.083 @ 25.0 ohm-m		
Rmc @ Measured Temp	0.146 @ 25.0 ohm-m		
Source Rmf / Rmc	PRESS PRESS		
Rm @ BHT	0.036 @ 111.0 ohm-m		
Time Since Circulation	30 HRS		
Max Recorded Temp	111.00 deg C		
Equipment Name	COMPACT		
Equipment / Base	1 SALE		
Recorded By	G. McManus, R. Tench		S. Mooney, B. Arnold
Witnessed By	E.Espiritu		
Circ. Stopped	23:15 15-AUG		

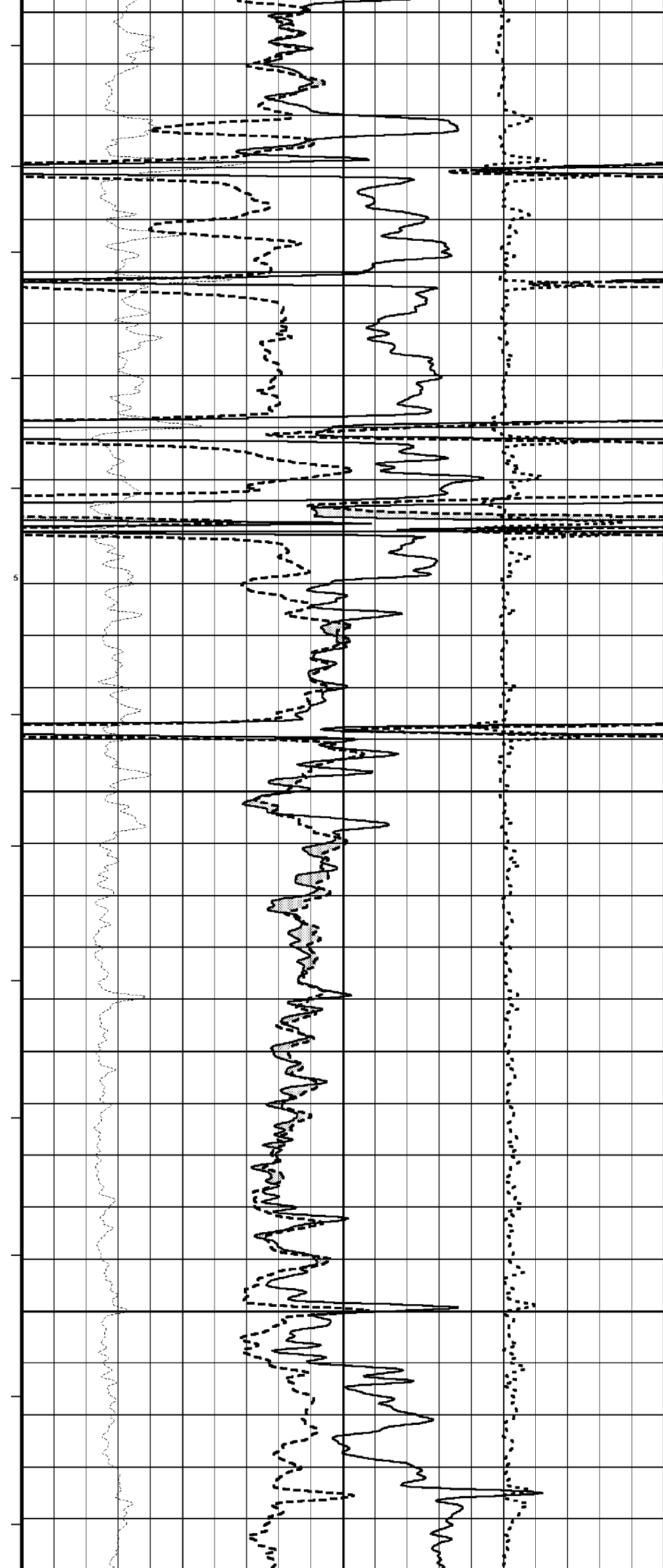
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		1500.00		2800.00
6.000		2800.00		3660.00
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K55 BTC	10.750	0.00	1256.00	40.50
	7.625	1256.00	2896.00	27.00
REMARKS				
DRILLING RIG: NABORS (ISDL) 453.				
REEVES COMPACT TOOLS RAN WITH 3½" WELL SHUTTLE.				
MAX DEVIATION: 43.3° @ 3283 m.				
GRONINGEN LATEROLOG PRESENTED WITH ORIGINAL LOGGING CONSTANT.				
ENHANCED MODEL PROCESSING USED FOR INDUCTION DATA (NOT PRESENTED).				
REEVES CREW: R.TENCH, G.MCMANUS, S.MOONEY AND BILL ARNOLD				

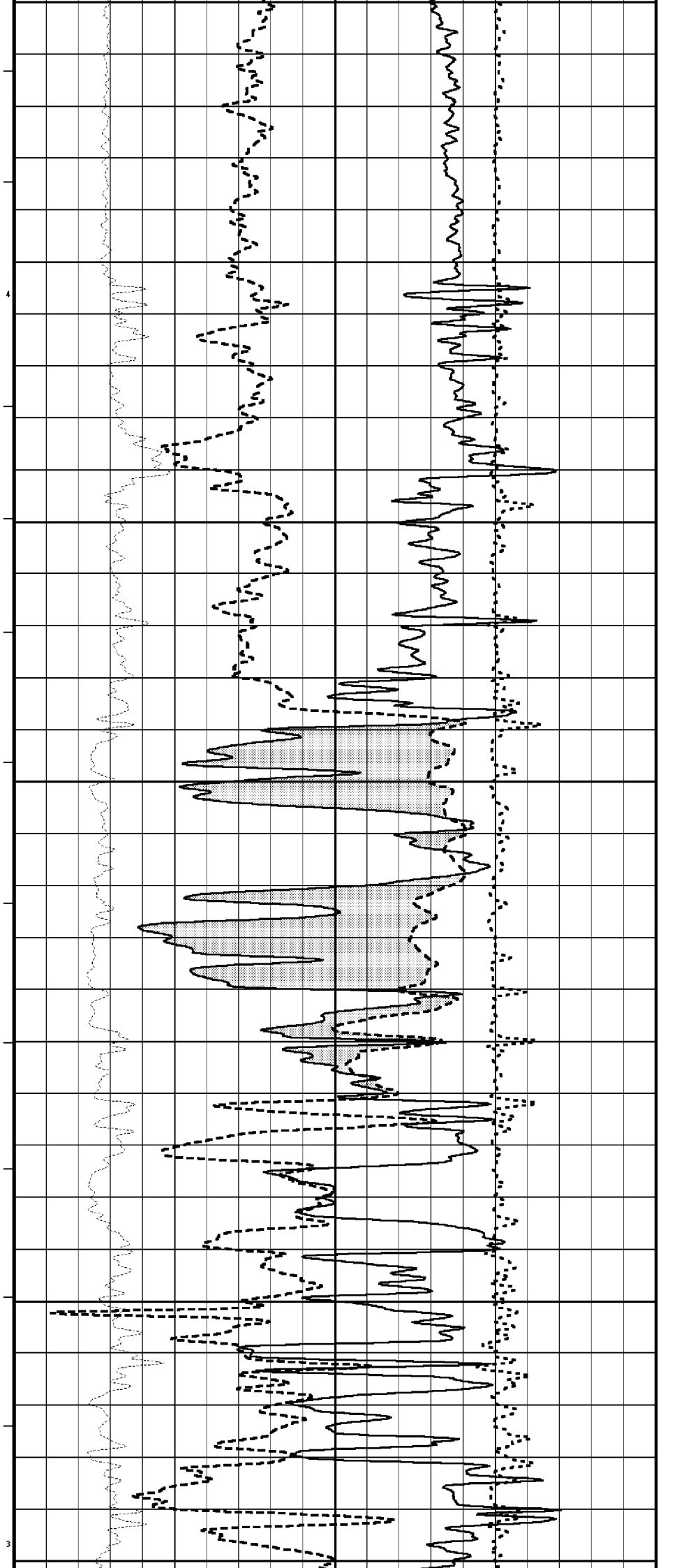
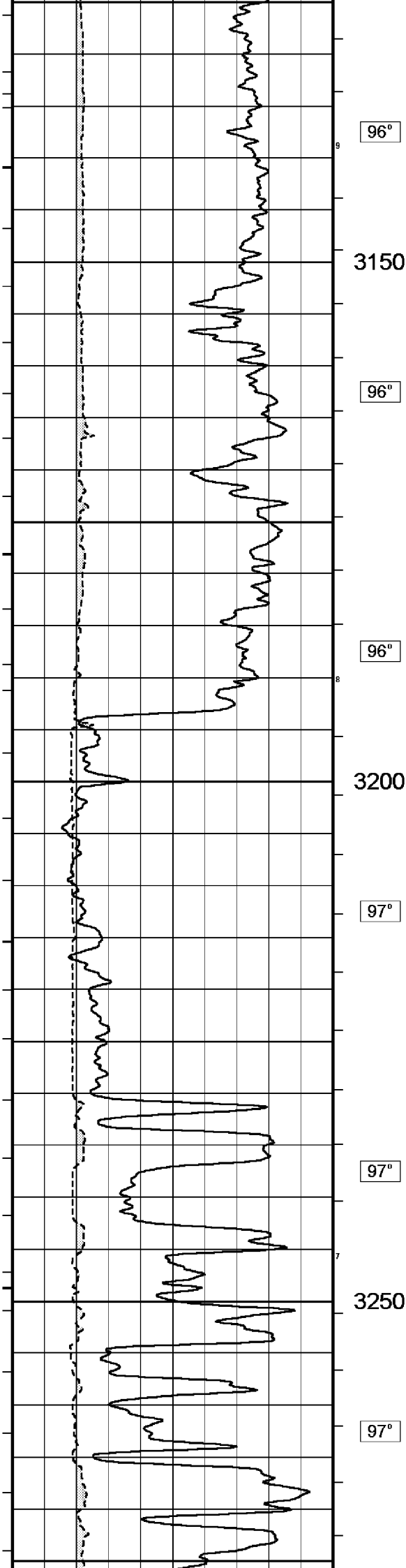
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

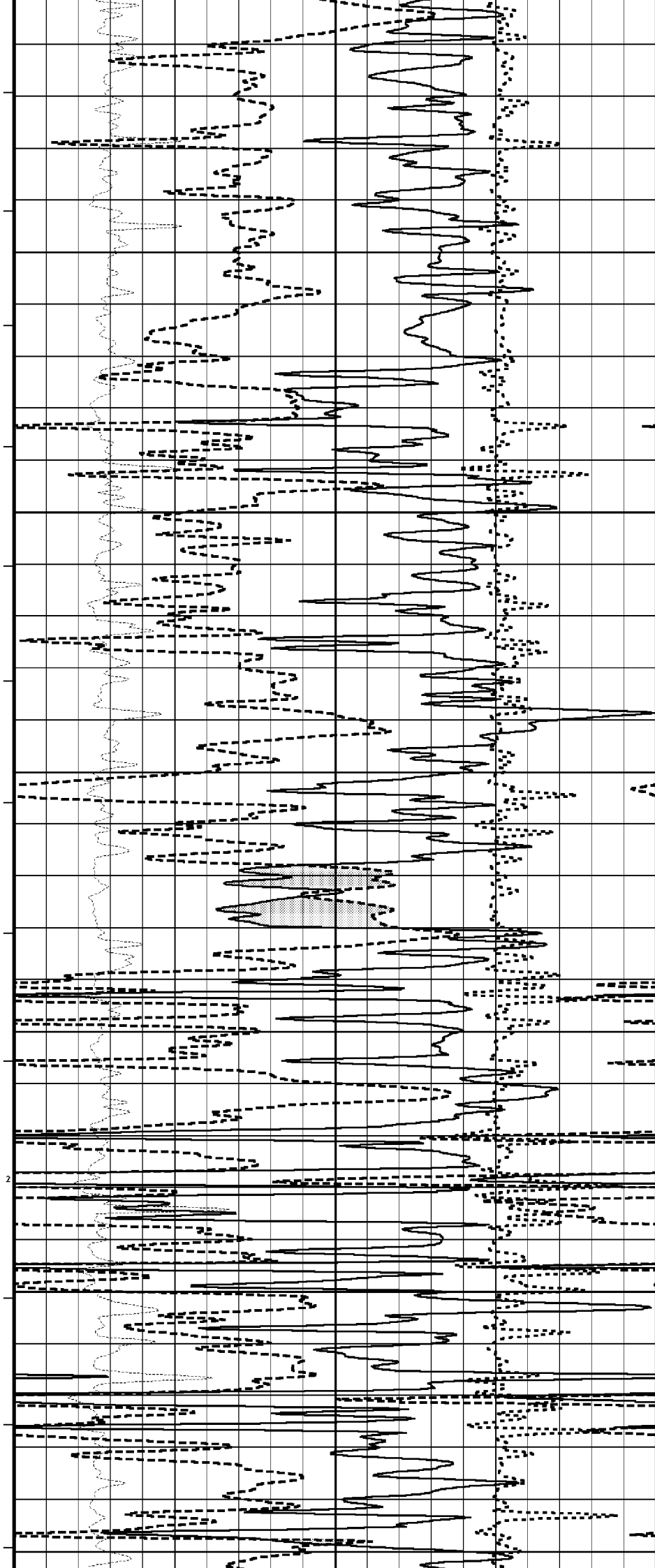
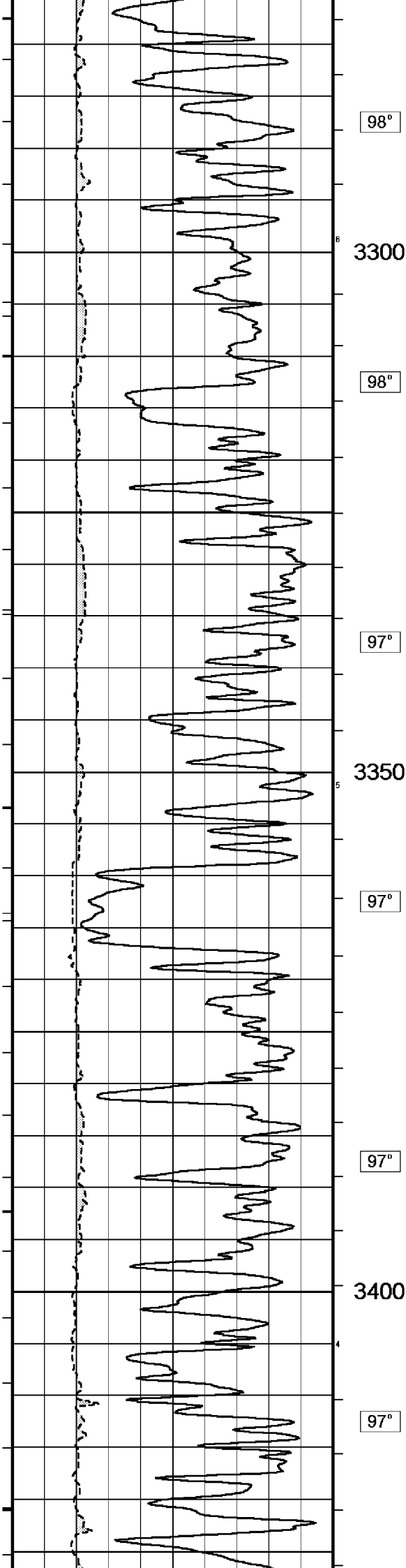


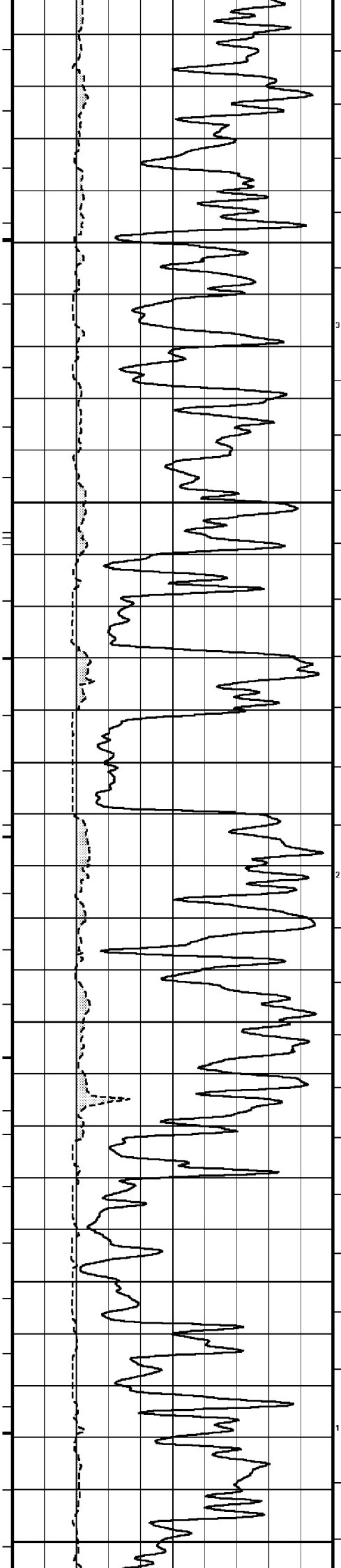


12  
93°  
3000  
94°  
11  
94°  
3050  
95°  
10  
96°  
3100  
96°









98°

3450

97°

97°

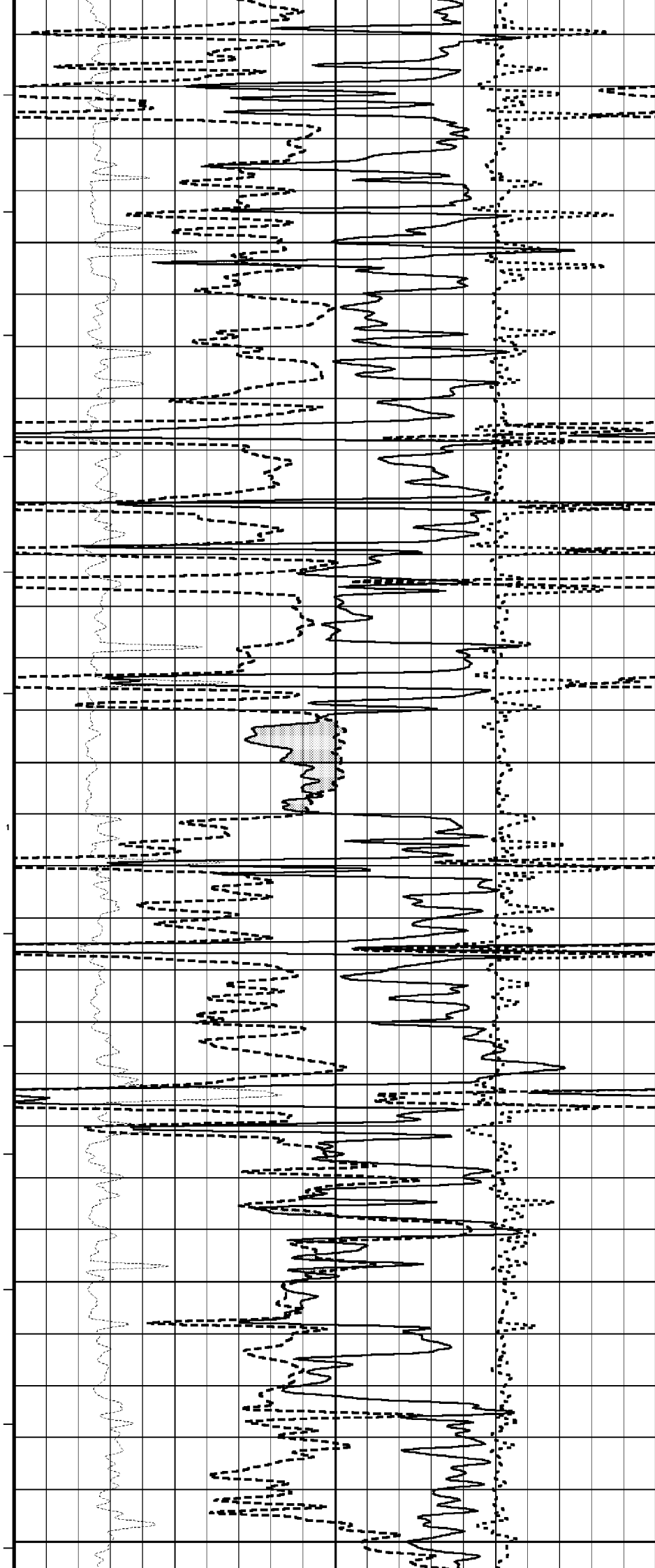
3500

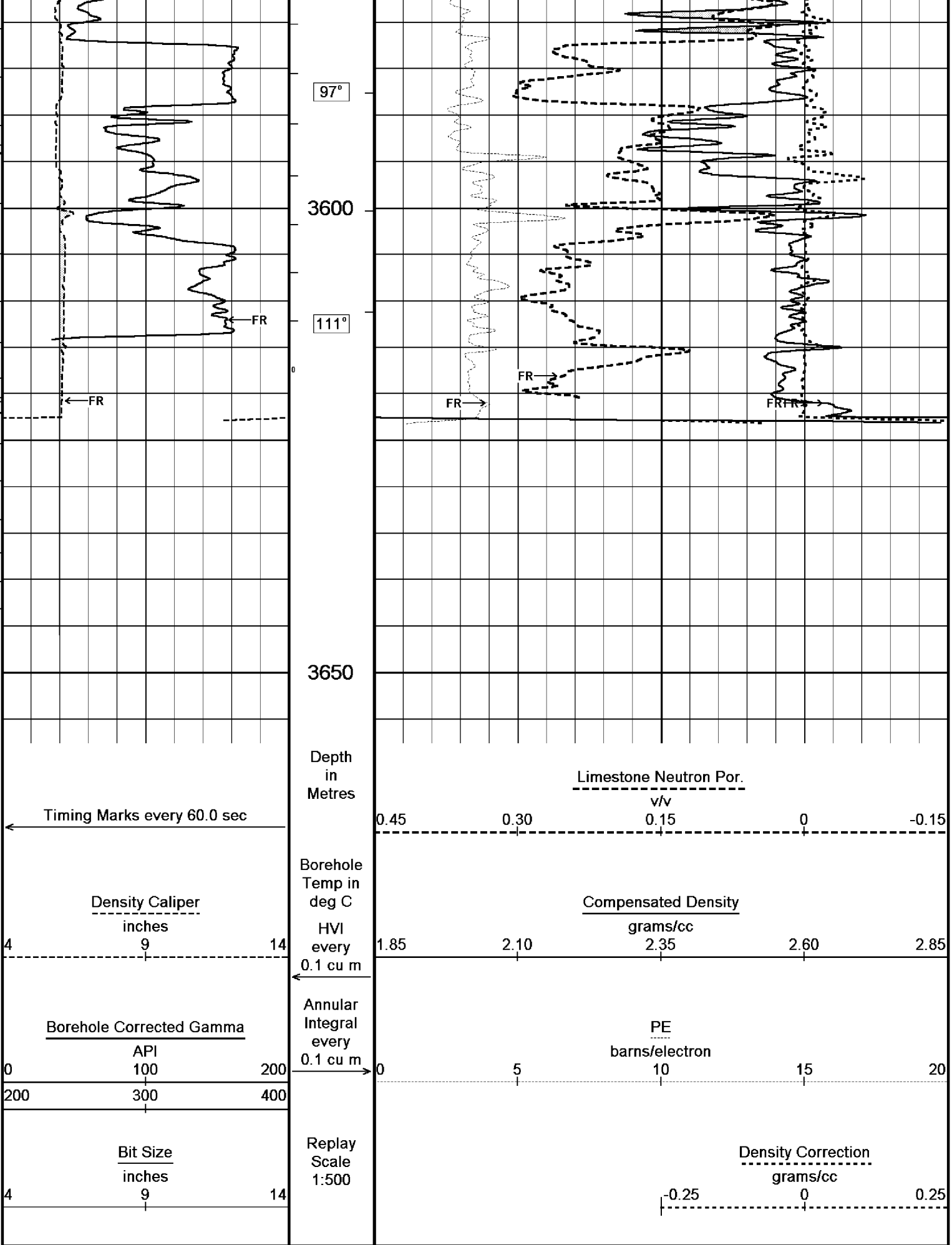
96°

97°

3550

97°





## General Constants All 000

## General Parameters

Mud Resistivity	0.10	ohm-metres
Mud Resistivity Temperature	25.00	degrees C
Water Level	0.00	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	4.50	inches
Caliper for Differential Caliper	Density Caliper	

## Rwa Parameters

Porosity used	Base Density Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.61	
RWA Constant M	2.15	

## High Resolution Temperature Calibration MCG 043

Field Calibration on 9-AUG-2002,07:03

	Measured	Calibrated(Deg C)
Lower	20.50	20.00
Upper	51.00	50.00

## High Resolution Temperature Constants MCG 043

Pre-filter Length	11
-------------------	----

## Gamma Calibration MCG 043

Field Calibration on 15-AUG-2003 19:05

	Measured	Calibrated (API)
Background	16	11
Calibrator (Gross)	1419	920
Calibrator (Net)	1403	909

## Gamma Constants MCG 043

Gamma Calibrator Number	60	
Mud Density	1.15	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

## Neutron Calibration MDN 042

Base Calibration on 2-AUG-2003 10:04

Field Check on 15-AUG-2003 20:39

## Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3104	98	3714	110
	31.769		33.764	

## Field Calibrator at Base

	Calibrated (cps)	
Ratio	1679	2371
	0.708	

## Field Check

	Calibrated (cps)	
Ratio	1692	2398
	0.706	

## Neutron Constants MDN 042

Neutron Source Id	NSN-E-739	
Neutron Jig Number	NE-C-052	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.15	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	42.30	kppm



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

# Caliper Calibration MPD 066

Base Calibration on 22-OCT-2003,14:18  
Field Calibration on 22-OCT-2003,14:18

## Base Calibration

Reading No	Measured	Calibrator Size (in)
1	12128	4.58
2	20304	6.56
3	28752	8.56
4	37248	10.52
5	46672	12.58
6	N/A	N/A

## Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.00	6.00

# Photo Density Calibration MPD 066

Base Calibration on 2-AUG-2003 14:56  
Field Check on 15-AUG-2003 20:32

## Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	53064	18614	53282	19349
Reference 2	24973	2526	25298	2555

## Field Check at Base

980.9	1146.2
-------	--------

## Field Check

969.2	1145.5
-------	--------

## PE Calibration

Base Calibration	WS	Measured		Calibrated
		WH	Ratio	Ratio
Background	188	856		
Reference 1	16447	52883	0.313	0.318
Reference 2	6593	24840	0.267	0.273

## Field Check at Base

187.7	855.8
-------	-------

## Field Check

188.0	845.9
-------	-------

# Density Constants MPD 066

Density Source Id	242	
Nylon Calibrator Number	517	
Aluminium/Fe Calibrator Number	517	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.15	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

DOWNHOLE EQUIPMENT  
All measurements relative to tool zero.



Compact Battery Sub.  
MBS 99    Length: 4.34 m    Weight: 44.09 lb

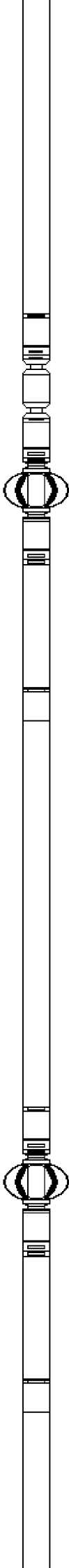
Compact Knuckle Joint  
SKJ 110    Length: 0.66 m    Weight: 24.25 lb

Compact Inline Standoff B  
MIS 135    Length: 0.65 m    Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.  
MBE 18    Length: 3.76 m    Weight: 94.80 lb

Compact Inline Standoff B  
MIS 136    Length: 0.65 m    Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.  
MBE 17    Length: 3.76 m    Weight: 94.80 lb



Compact Inline Standoff B  
MIS 132   Length: 0.65 m   Weight: 15.43 lb

Compact Knuckle Joint  
SKJ 102   Length: 0.66 m   Weight: 24.25 lb

Compact Gamma  
MCG 43   Length: 2.65 m   Weight: 63.93 lb

32.22 m   GRGC - Gamma Ray

31.33 m   CGXT - MCG External Temperature

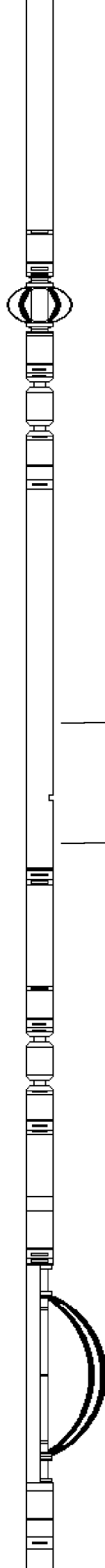
Compact Memory Sub.  
MMS 24   Length: 0.95 m   Weight: 22.05 lb

Compact Knuckle Joint  
SKJ 46   Length: 0.66 m   Weight: 24.25 lb

Compact Swivel Head Adaptor  
SHA 27   Length: 0.83 m   Weight: 26.46 lb

Compact Inline Bowspring A  
MIS 24   Length: 1.74 m   Weight: 33.07 lb

Compact Neutron



MDN 42    Length: 1.53 m    Weight: 50.71 lb

Compact Density/Caliper  
MPD 66    Length: 2.92 m    Weight: 90.39 lb

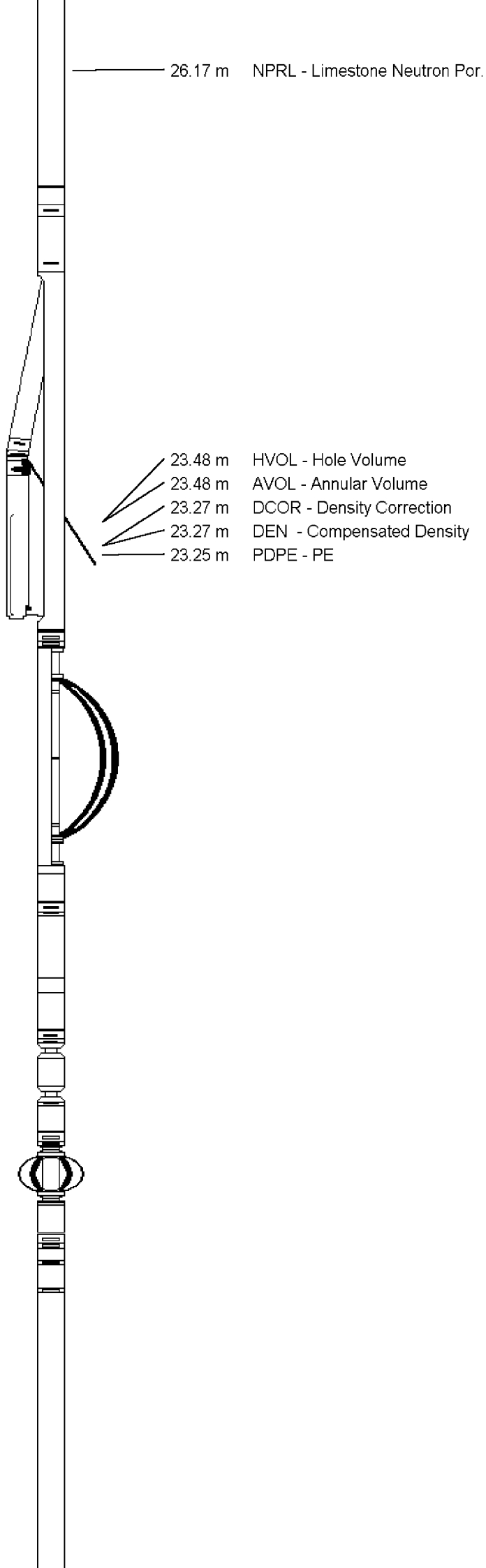
Compact Inline Bowspring A  
MIS 25    Length: 1.74 m    Weight: 33.07 lb

Compact Swivel Head Adaptor  
SHA 28    Length: 0.83 m    Weight: 26.46 lb

Compact Knuckle Joint  
SKJ 45    Length: 0.66 m    Weight: 24.25 lb

Compact Inline Standoff B  
MIS 31    Length: 0.65 m    Weight: 15.43 lb

Compact Upper Guard Sub.  
MUG 16    Length: 2.74 m    Weight: 68.34 lb



Compact Inline Standoff B  
MIS 73      Length: 0.65 m      Weight: 15.43 lb

Compact Laterolog Electrode Sub.  
MLE 5      Length: 3.76 m      Weight: 92.59 lb

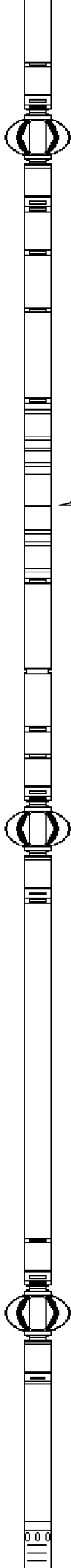
13.35 m      DSL - Shallow Laterolog  
13.35 m      DLL - Deep Laterolog

Compact Inline Standoff B  
MIS 30      Length: 0.65 m      Weight: 15.43 lb

Compact Lower Guard Sub.  
MLG 9      Length: 2.44 m      Weight: 55.12 lb

Compact Inline Standoff B  
MIS 130      Length: 0.65 m      Weight: 15.43 lb

Compact Sonic  
MSS 47      Length: 3.82 m      Weight: 72.75 lb



Compact Inline Standoff B  
MIS 128 Length: 0.65 m

Weight: 15.43 lb

Compact Induction  
MAI 39 Length: 3.29 m

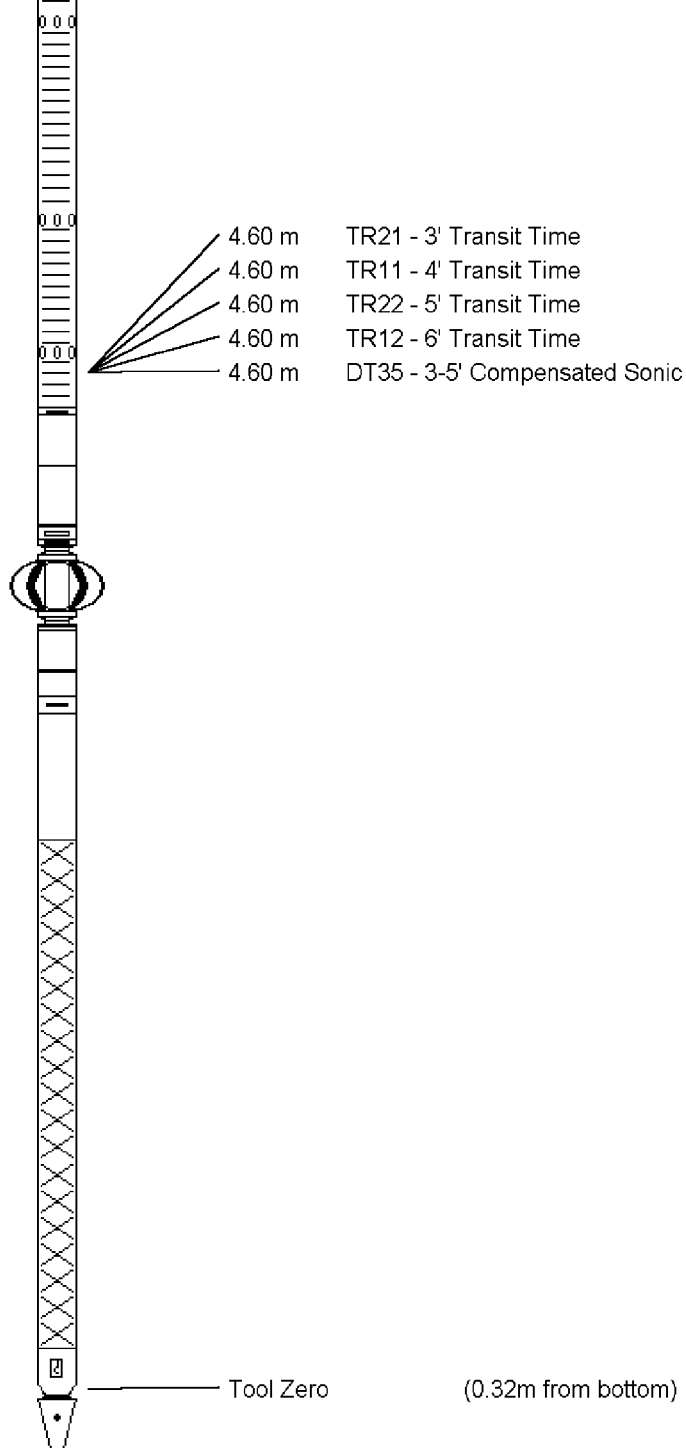
Weight: 48.50 lb

Pressure Bung + Hole Finder  
HFS 3 Length: 0.28 m

Weight: 6.61 lb

Total Length: 49.23 m

Total Weight: 1144.20 lb



COMPANY

ESSO AUSTRALIA PTY. LTD.

WELL

FLOUNDER A-17a

FIELD

GIPPSLAND BASIN

PROVINCE/COUNTY

BASS STRAIT

COUNTRY/STATE

AUSTRALIA

Elevation Kelly Bushing

metres

First Reading

3639.70

metres

Elevation Drill Floor

33.85

metres

Depth Driller

3660.00

metres

Elevation Ground Level

-93.00

metres

Depth Logger

3646.00

metres

PHOTO DENSITY

COMPENSATED NEUTRON

1:500 MD

**Reeves**

