



PRECISION
ENERGY SERVICES

COMPENSATED SONIC

Compact

1:500 MD

COMPANY

ESSO AUSTRALIA PTY LTD

WELL

BREAM A10A

FIELD

BREAM

PROVINCE/COUNTY

BASS STRAIT

COUNTRY/STATE

AUSTRALIA

LOCATION

S 38 29 58.824, E 147 46 19.976

N 5738460.340 m, E 567336.310 m

FINAL PRINT

LSD

SEC

TWP

RGE

Other Services

DUAL LATEROLOG

PHOTO DENSITY

COMPENSATED NEUTRON

API Number

Permit Number

Permanent Datum MSL

Elevation 0.0 metres

Log Measured From RT @ 32.82m above Permanent Datum

Drilling Measured From RT

Elevations:
KB 32.82 metres
DF 32.82 metres
GL -59.40 metres

Date 16-MAY-2005

Run Number ONE

Depth Driller 3379.50 metres

Depth Logger 3375.10 metres

First Reading 3370.10 metres

Last Reading 2258.80 metres

Casing Driller 2258.20 metres

Casing Logger 2258.80 metres

Bit Size 8.50 inches

Hole Fluid Type KC/POLY/GYL

Density / Viscosity 10.10 lb/USg 30.00 cP

PH / Fluid Loss 9.00 3.00 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.134 @ 25.0 ohm-m

Rmf @ Measured Temp 0.103 @ 25.0 ohm-m

Rmc @ Measured Temp 0.236 @ 25.0 ohm-m

Source Rmf / Rmc PRESS PRESS

Rm @ BHT 0.053 @ 97.3 ohm-m

Time Since Circulation 28.5 HRS

Max Recorded Temp 104.10 deg C

Equipment Name CWS/CML

Equipment / Base 1 SALE

Recorded By G. MCMANUS, B. MOSS

Witnessed By TREVOR LOBO

CIRC STOPPED 21:00 14-MAY

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	2258.80	3379.50

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	921.00	54.50
L-80	9.625	0.00	2258.80	47.00

REMARKS

RIG: NABORS 453

5" SHUTTLE/MEMORY COMPACT OPERATION.
CREW: G MCMANUS , R TENCH , B MOSS , K LUCIEER.

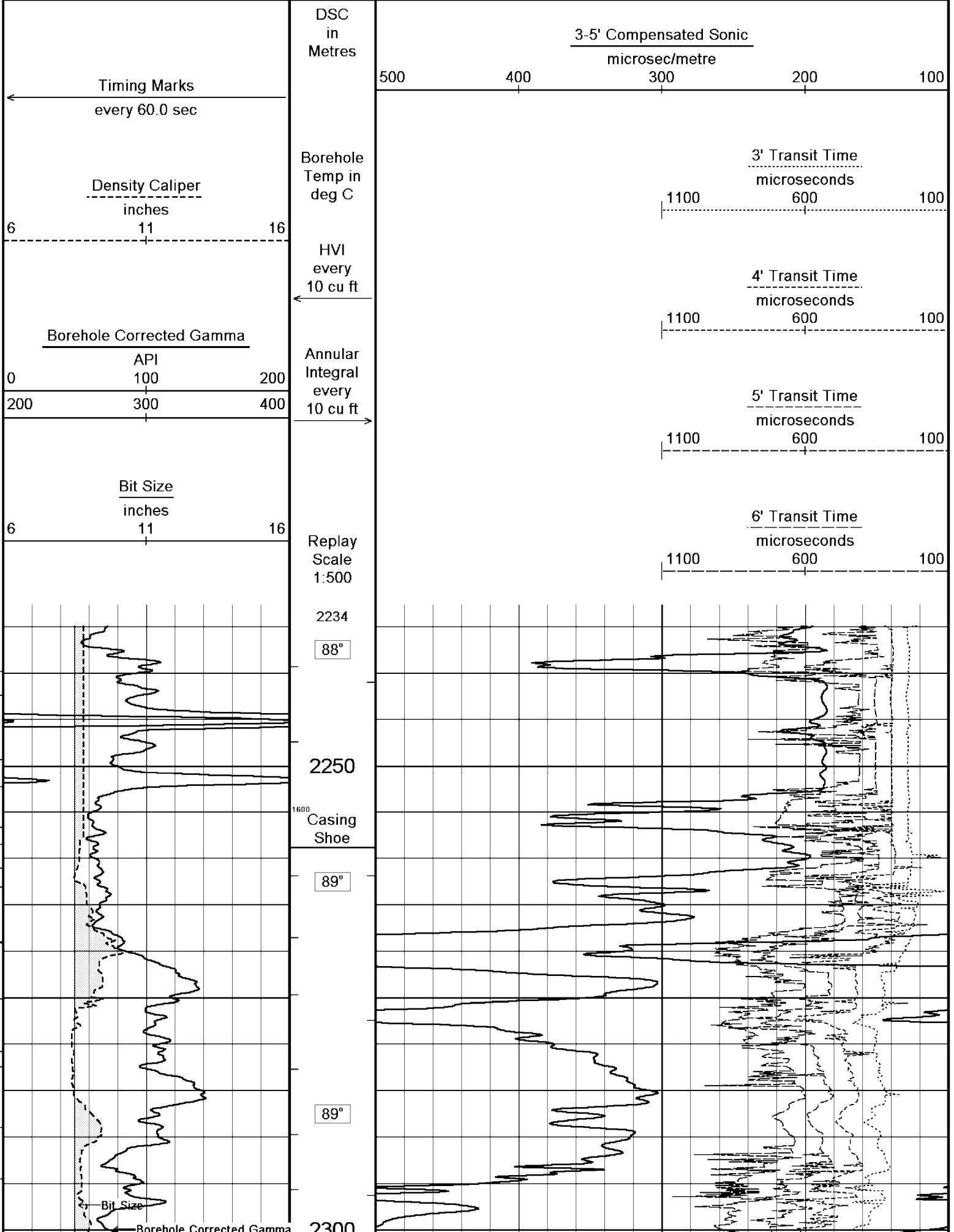
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.

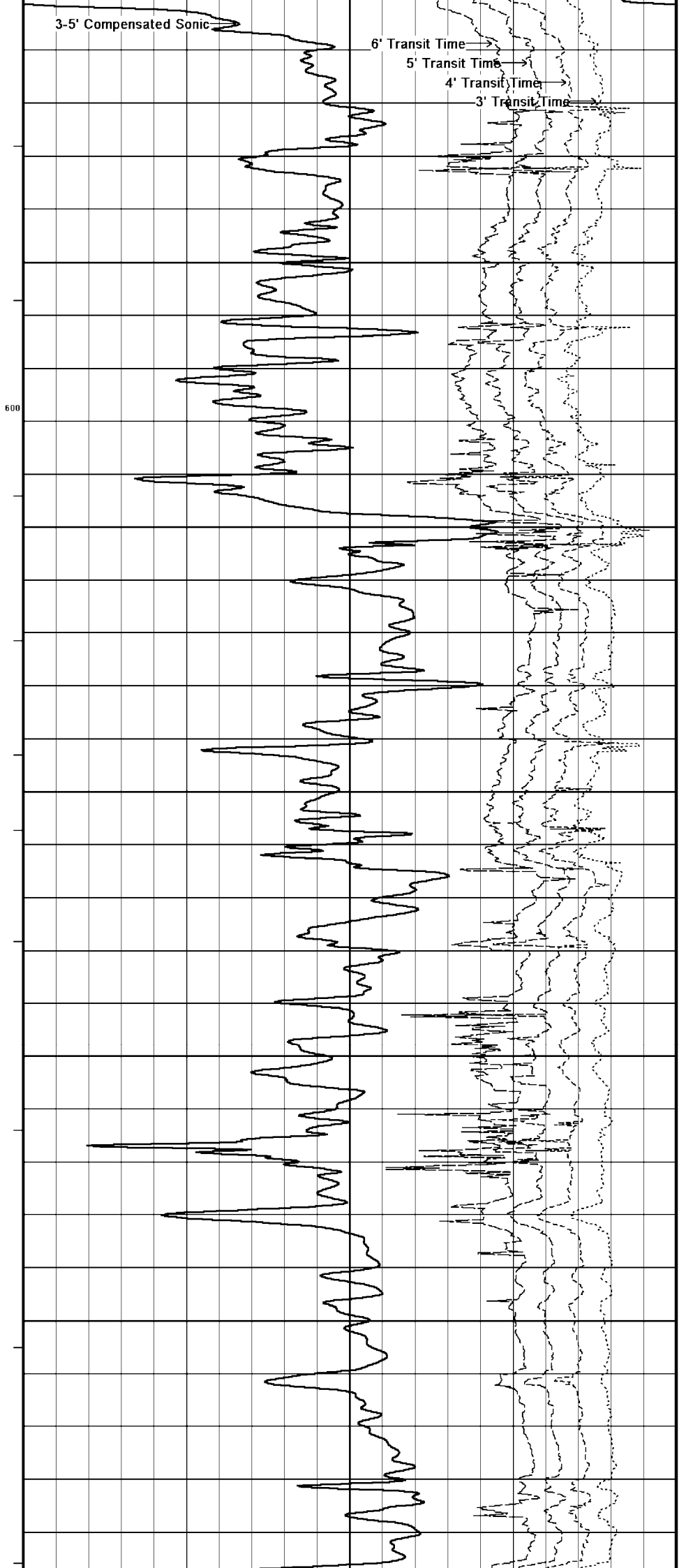
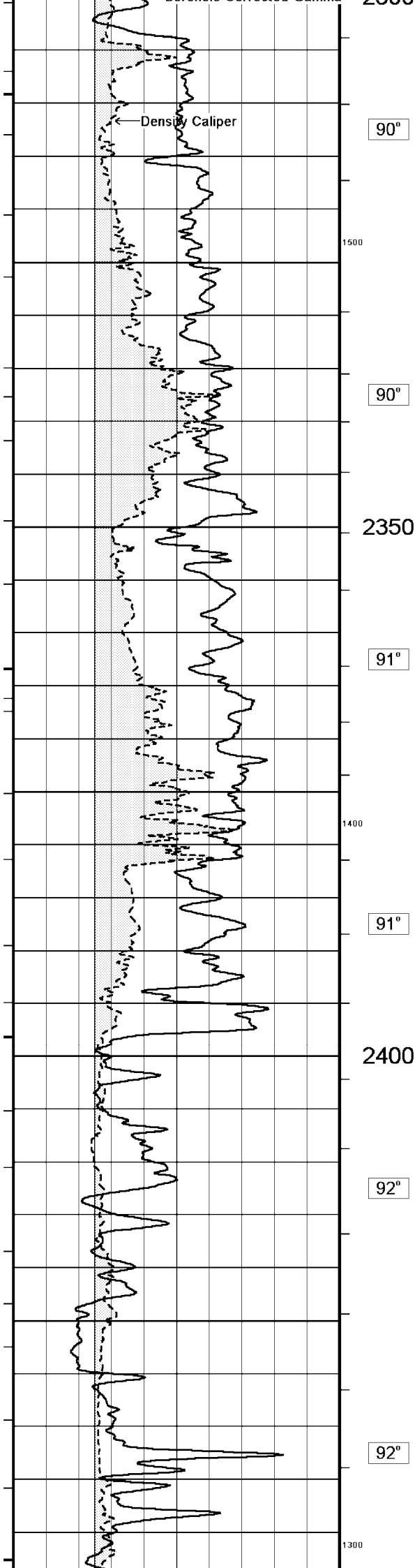
DENSITY CALIPER CLOSED BETWEEN 2594.50m MD AND 2598.2m MD
DUE TO THE INDUCTION SONDE DETECTING A PIECE OF BRASS DEBRIS
IN THE WELL. DENSITY - NEUTRON DATA IN THIS INTERVAL WILL BE INACCURATE.

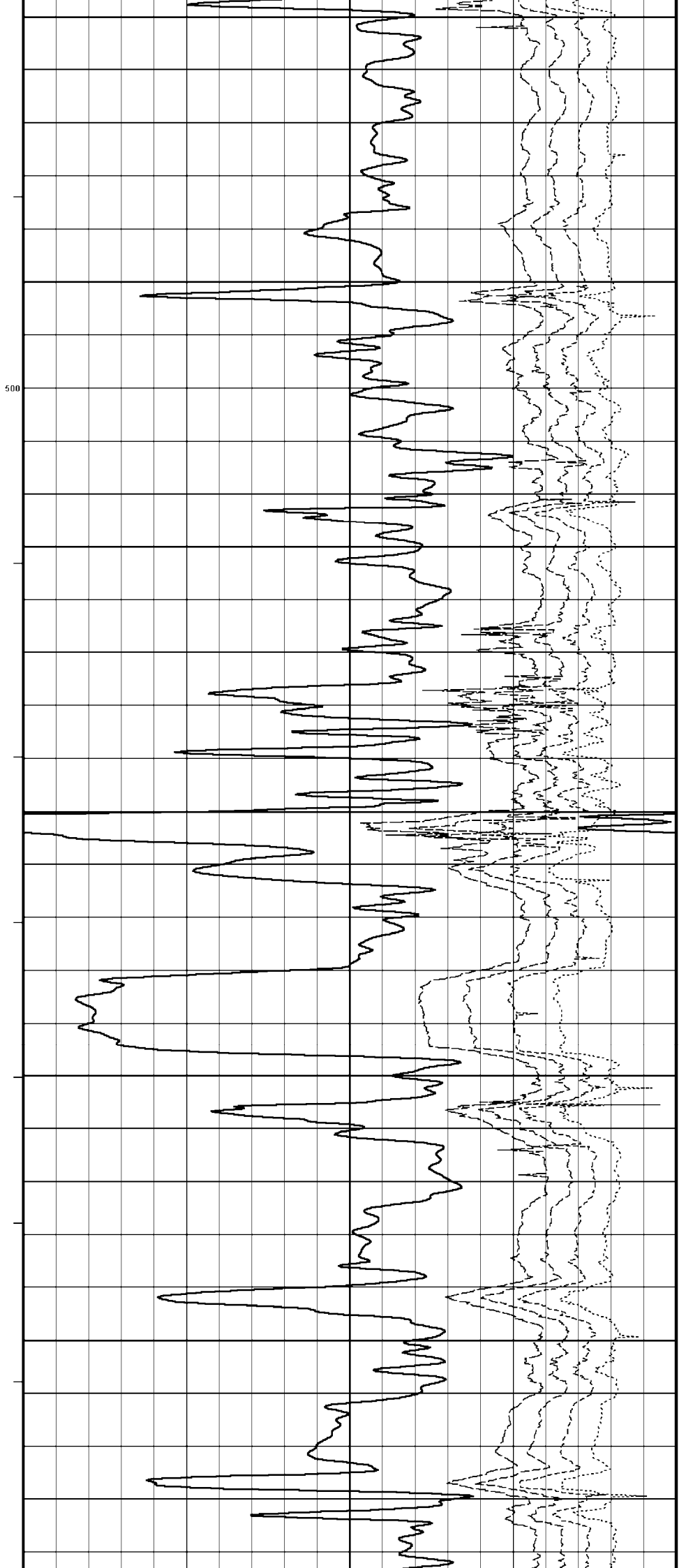
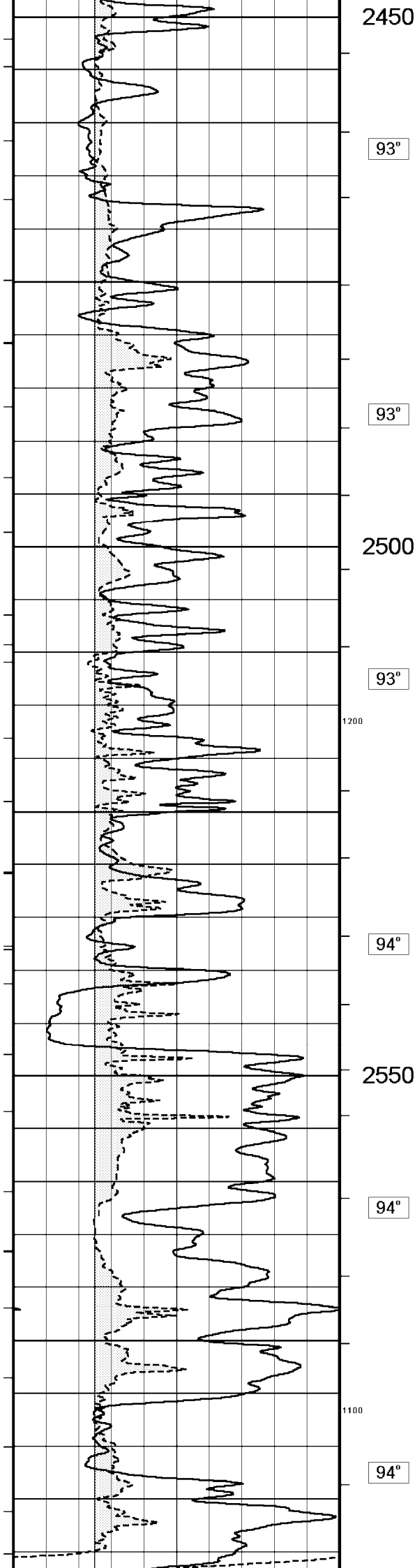
MAX. TEMPERATURE: 104.1 DEG C AT 3331.10m MD
MAX. INCLINATION: 47.28 DEG AT 2315.54m MD
MAX. DOGLEG SERVERITY: 4.68 DEG/30m AT 2775.31m MD
DEPLOYMENT ANGLE: 24 DEG

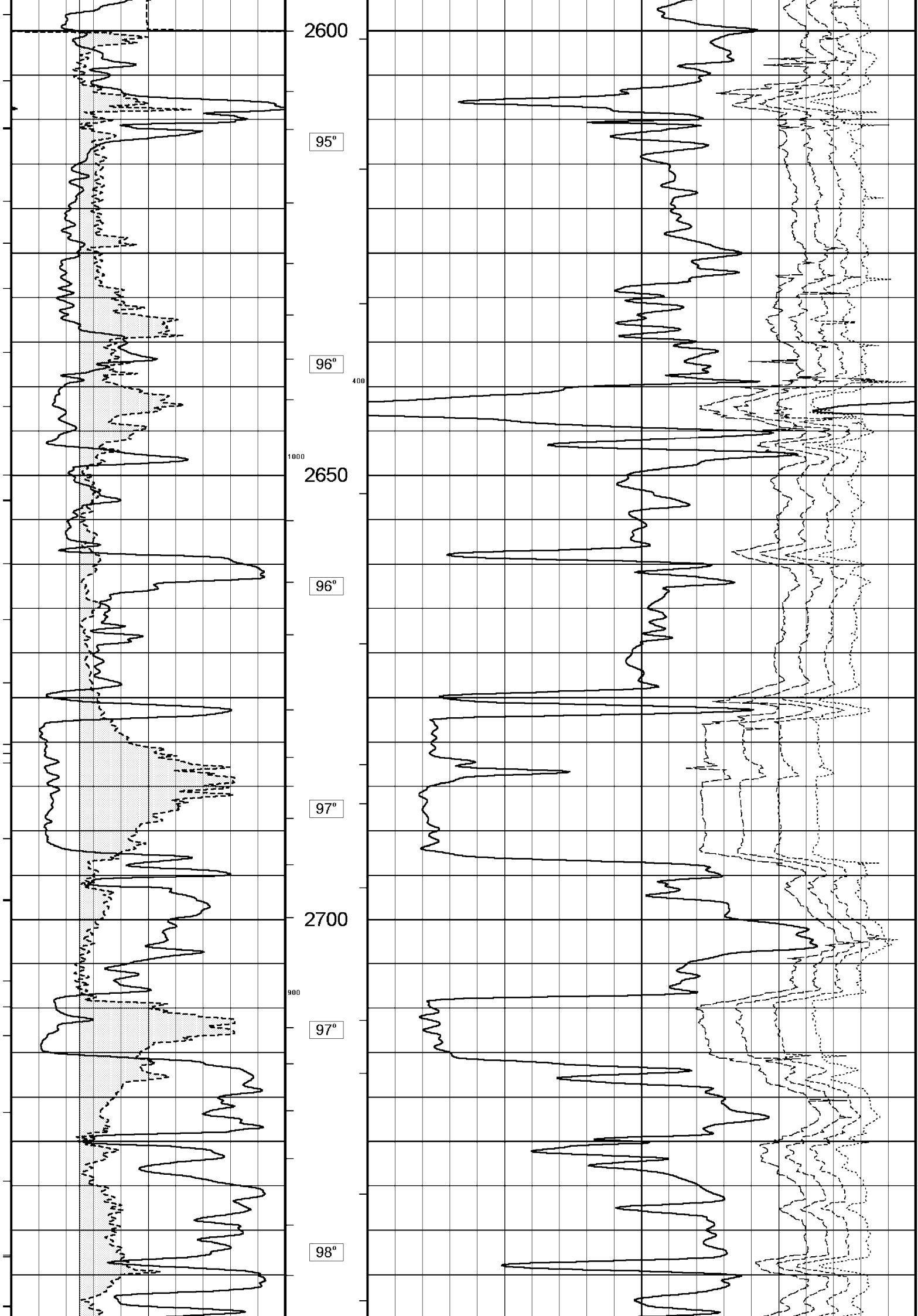
HVOL: 1620 FT^3
AVOL: 865 FT^3

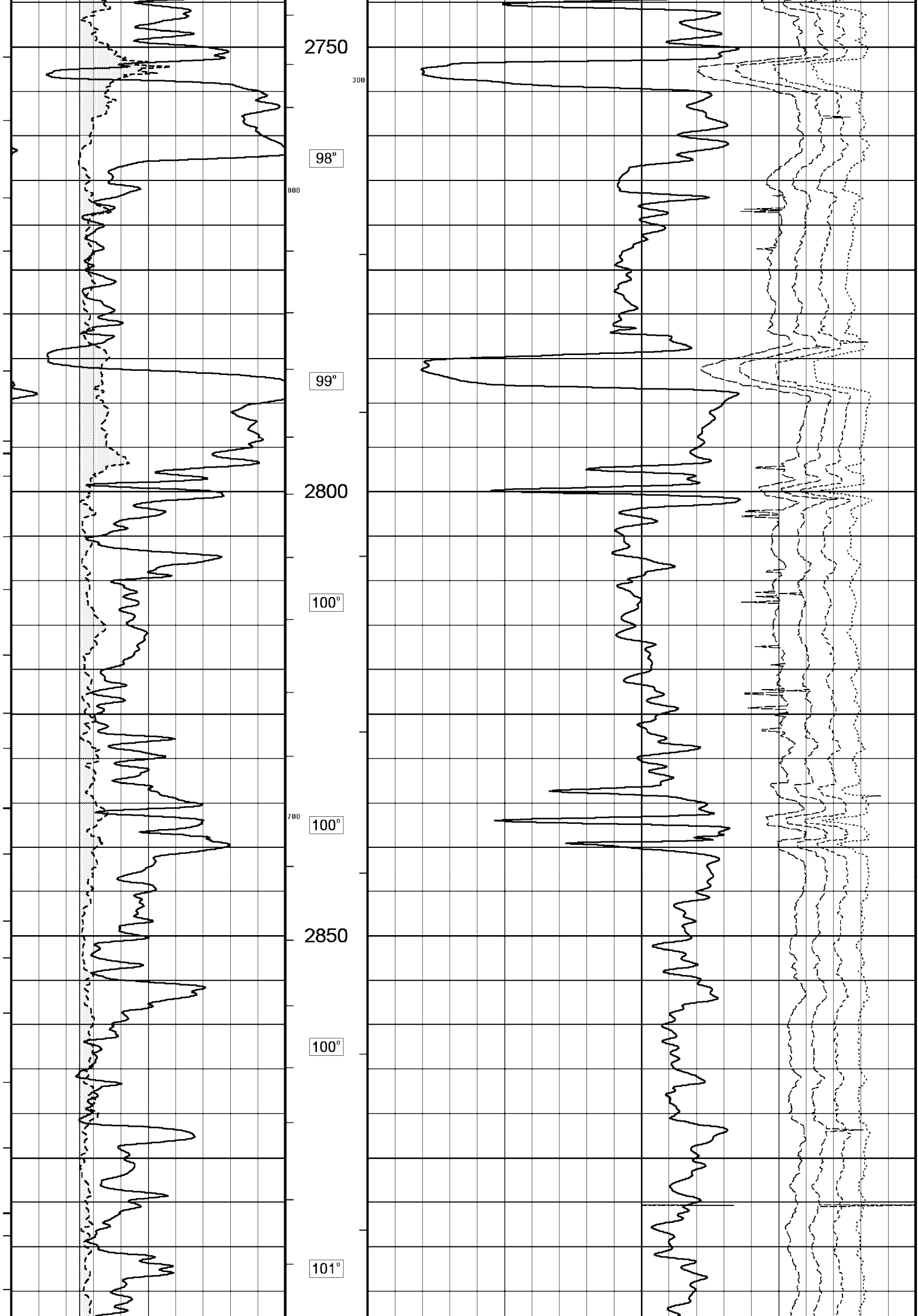
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or

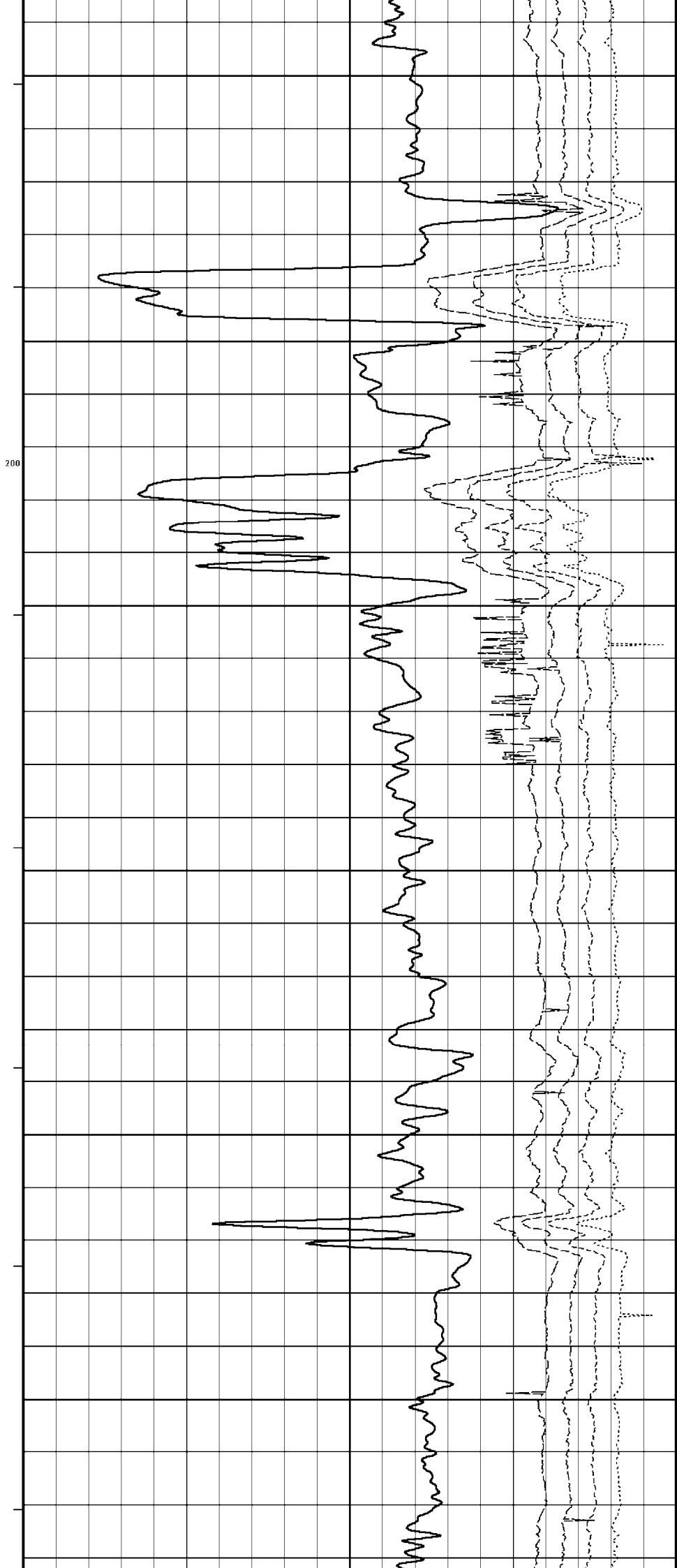
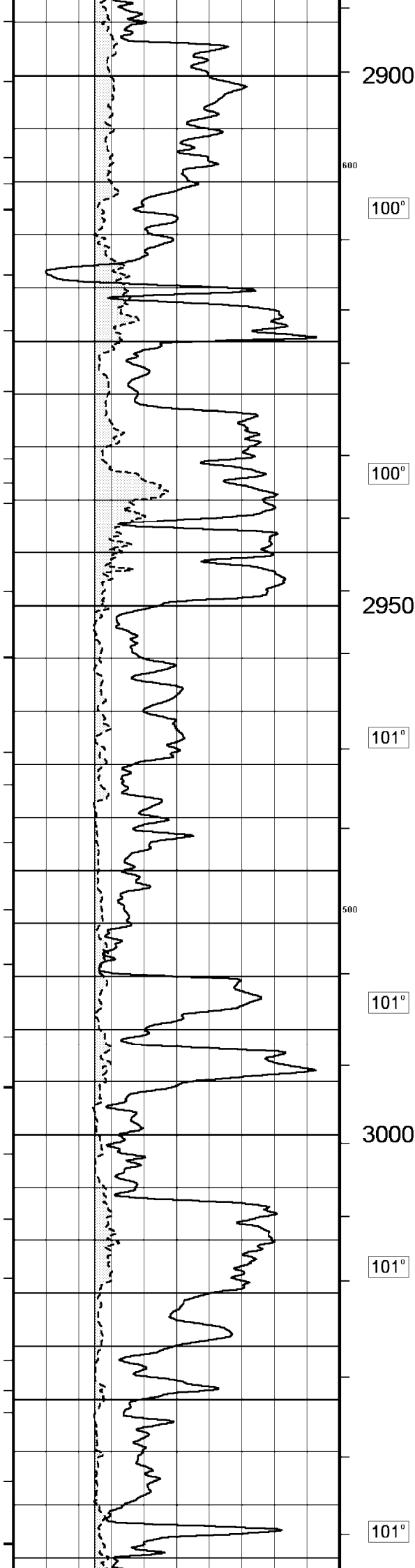


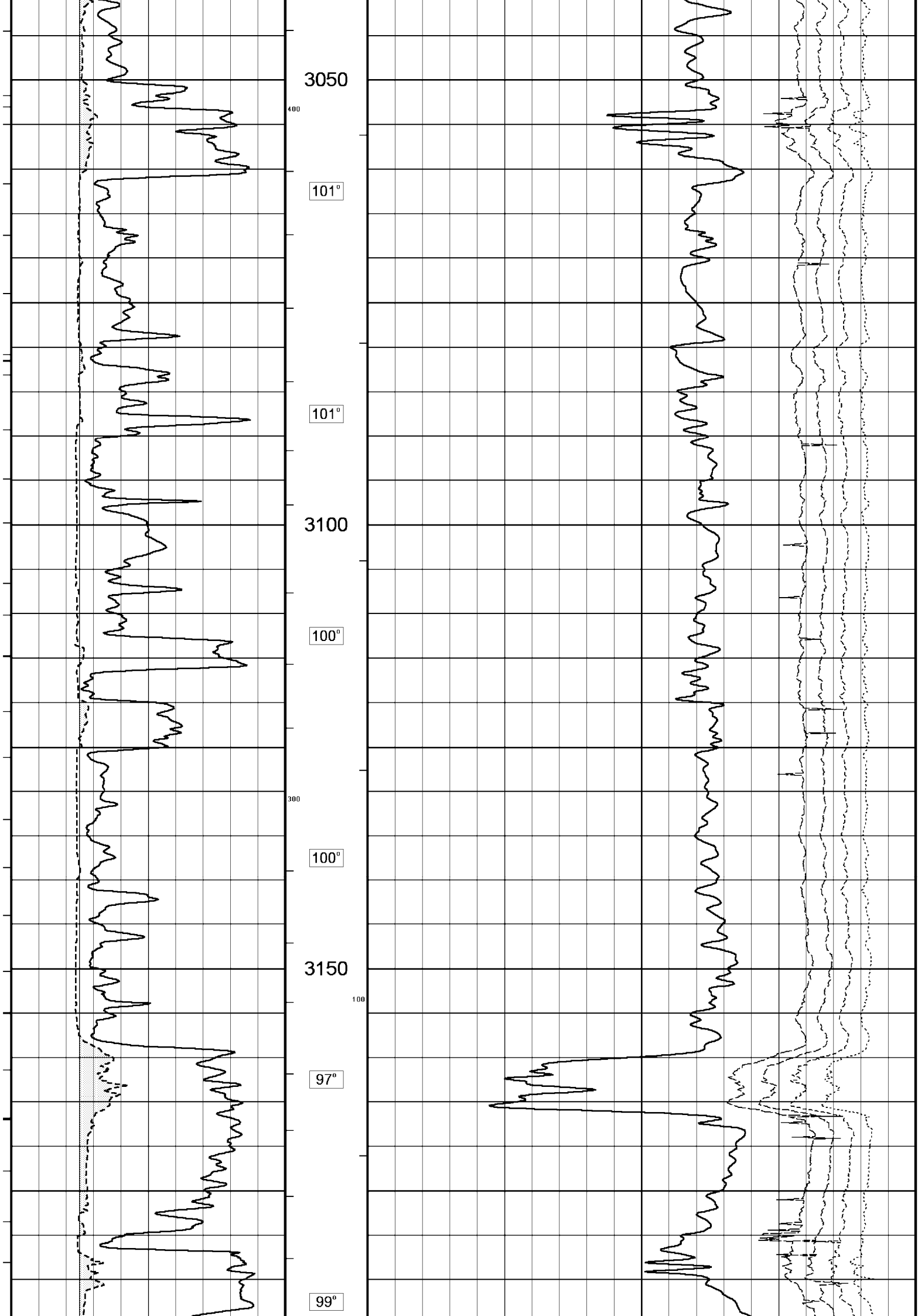


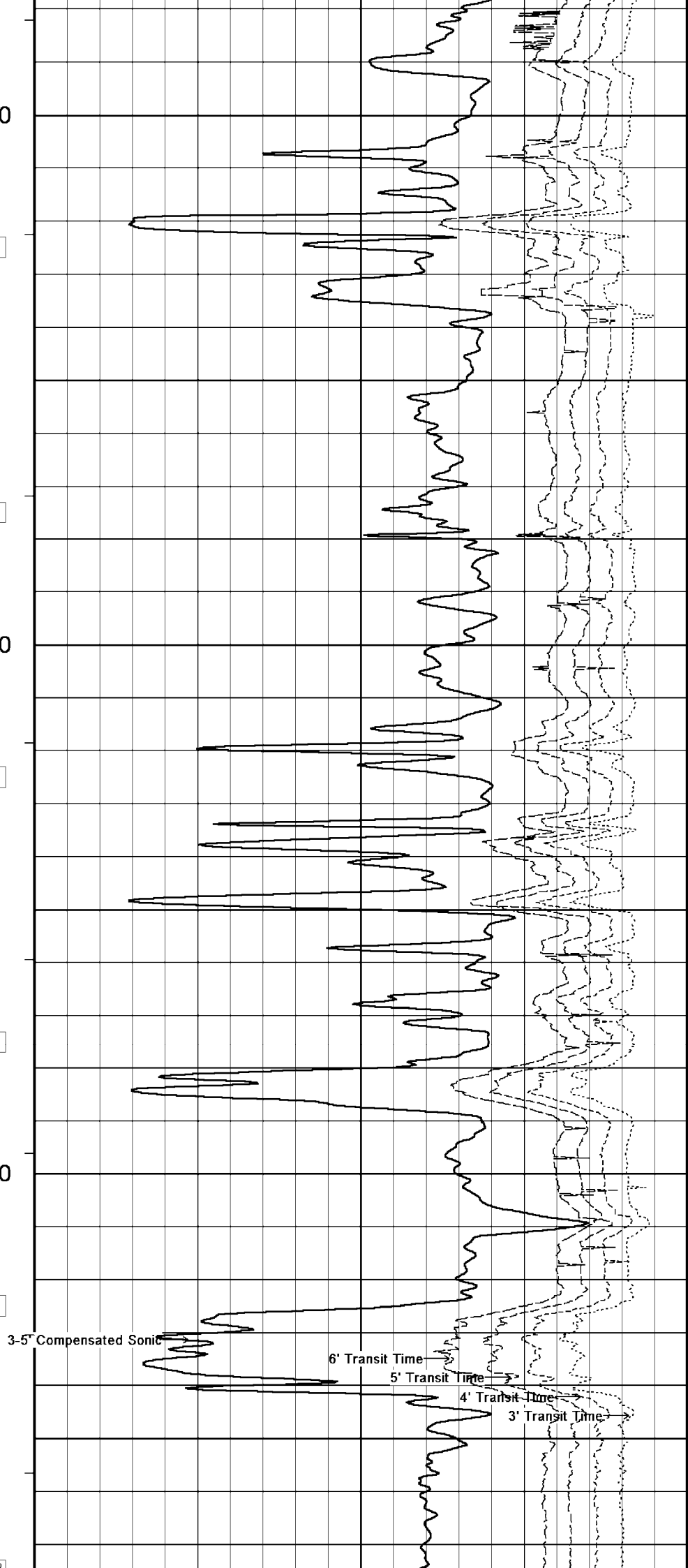
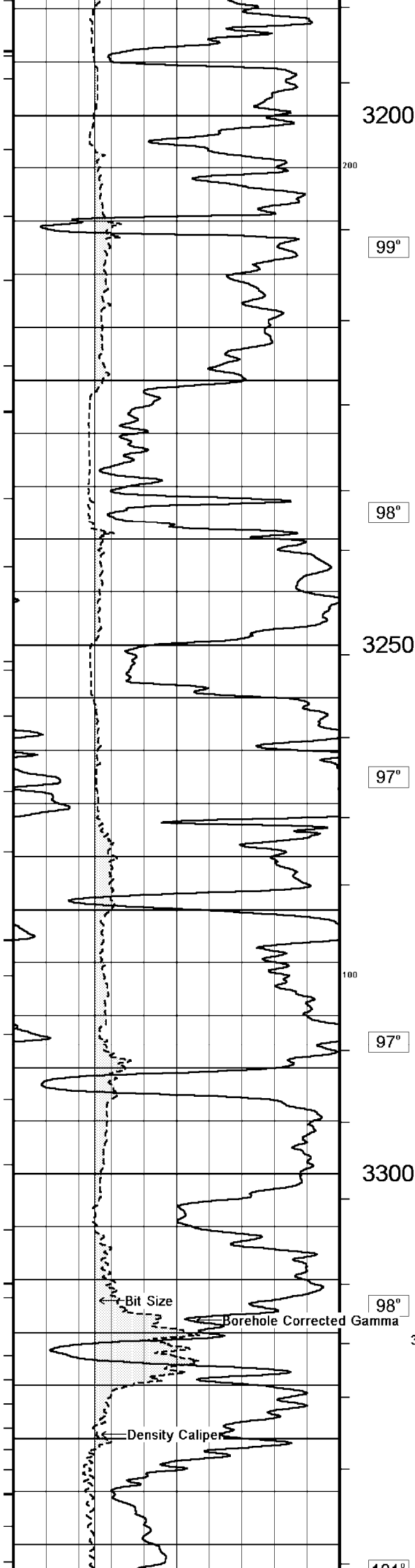












Hole/Annular Volume and Differential Caliper Parameters				
HVOL Caliper 1	Density Caliper			
HVOL Caliper 2	Density Caliper			
Annular Volume Diameter	7.000	inches		
Caliper for Differential Caliper	Density Caliper			
Rwa Parameters				
Porosity used	Base Density Porosity			
Resistivity used	Deep Induction			
RWA Constant A	0.610			
RWA Constant M	2.150			
High Resolution Temperature Calibration MCG 098			Field Calibration on 8-MAY-2005,02:39	
	Measured	Calibrated(Deg C)		
Lower	0.00	0.00		
Upper	100.00	100.00		
High Resolution Temperature Constants MCG 098				
Pre-filter Length	11			
Gamma Calibration MCG 098			Field Calibration on 8-MAY-2005 02:39	
	Measured	Calibrated (API)		
Background	9	6		
Calibrator (Gross)	1373	915		
Calibrator (Net)	1364	909		
Gamma Constants MCG 098				
Gamma Calibrator Number	060			
Mud Density	1.21	gm/cc		
Caliper Source for Processing	Density Caliper			
Tool Position	Eccentred			
Concentration of KCl	0.00	kppm		
Caliper Calibration MPD 083			Base Calibration on 29-APR-2005 11:31 Field Calibration on 8-MAY-2005 02:30	
Base Calibration				
Reading No	Measured	Calibrator Size (in)		
1	13428	4.01		
2	21585	5.99		
3	30000	7.98		
4	38511	9.94		
5	47824	12.01		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (in)	Actual Caliper (in)		
	8.03	7.98		
Sonic Constants MSS 066				
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	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 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	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:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_Remake_2JUNE05.dta

Compact Swivel Head Adaptor F

SHA 71 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint

SKJ 100 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.

MBS 99 Length: 4.41 m Weight: 90.4 lb

Compact Inline Standoff B

MIS 73 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 139 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 136 Length: 0.65 m Weight: 15.4 lb

MBE 21 - THIRD BRIDLE

MLK 111 Length: 3.76 m Weight: 88.2 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 A.C

MMS 38 Length: 0.95 m Weight: 30.9 lb

Compact Knuckle Joint

SKJ 46 Length: 0.66 m Weight: 24.3 lb

Compact Swivel Head Adaptor F

SHA 64 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

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

DEN - Compensated Density

Compact Inline Bowspring A

MIS 24 Length: 1.74 m Weight: 33.1 lb

23.27 m

DCOR - Density Correction

23.25 m

PDPE - PE

Compact Swivel Head Adaptor

SHA 28 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint

SKJ 110 Length: 0.66 m Weight: 24.3 lb

Compact Inline Standoff B

MIS 140 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.

MUG 20 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 129 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.
MLE 16 Length: 3.76 m Weight: 92.6 lb

Compact Inline Standoff B
MIS 127 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 133 Length: 0.65 m Weight: 15.4 lb

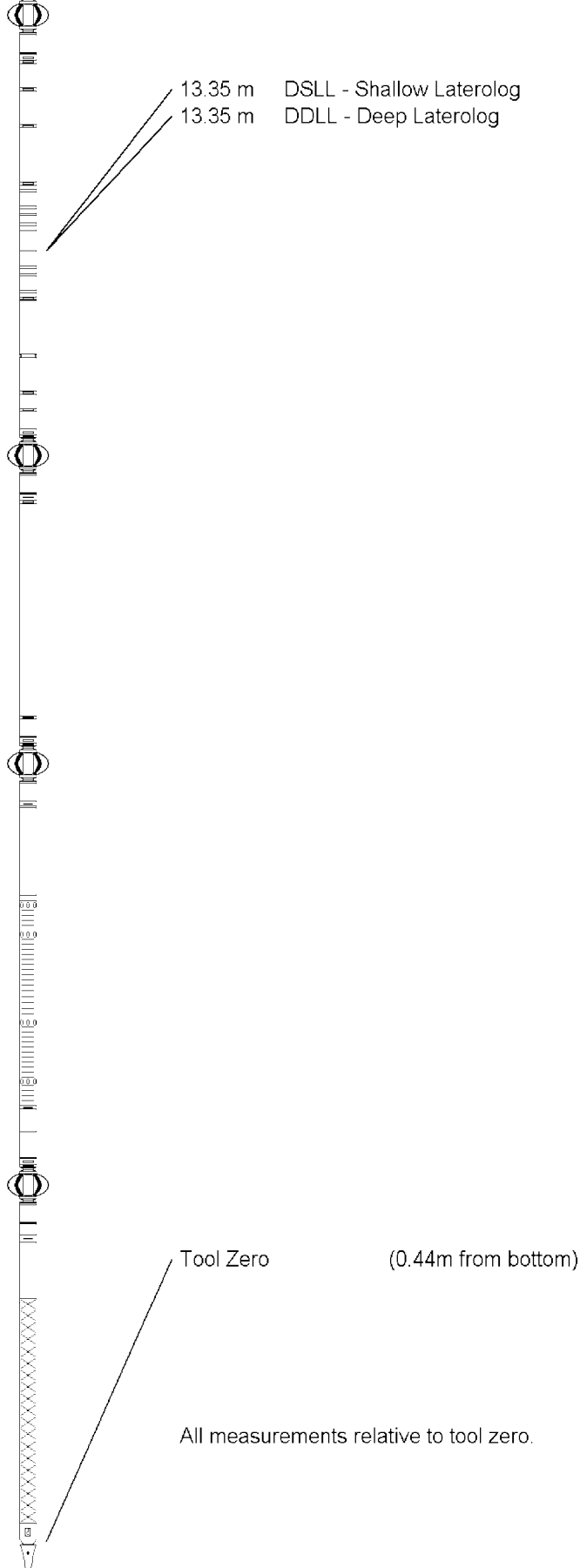
Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B
MIS 128 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: 53.36 m Weight: 1289.7 lb



COMPANY	ESSO AUSTRALIA PTY LTD
WELL	BREAM A10A
FIELD	BREAM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing	metres	First Reading	3370.10	metres
Elevation Drill Floor	32.82 metres	Depth Driller	3379.50	metres
Elevation Ground Level	-59.40 metres	Depth Logger	3375.10	metres



COMPENSATED SONIC
1:500 MD