



DUAL LATEROLOG - GR
DENSITY - NEUTRON

Compact

1:500 MD

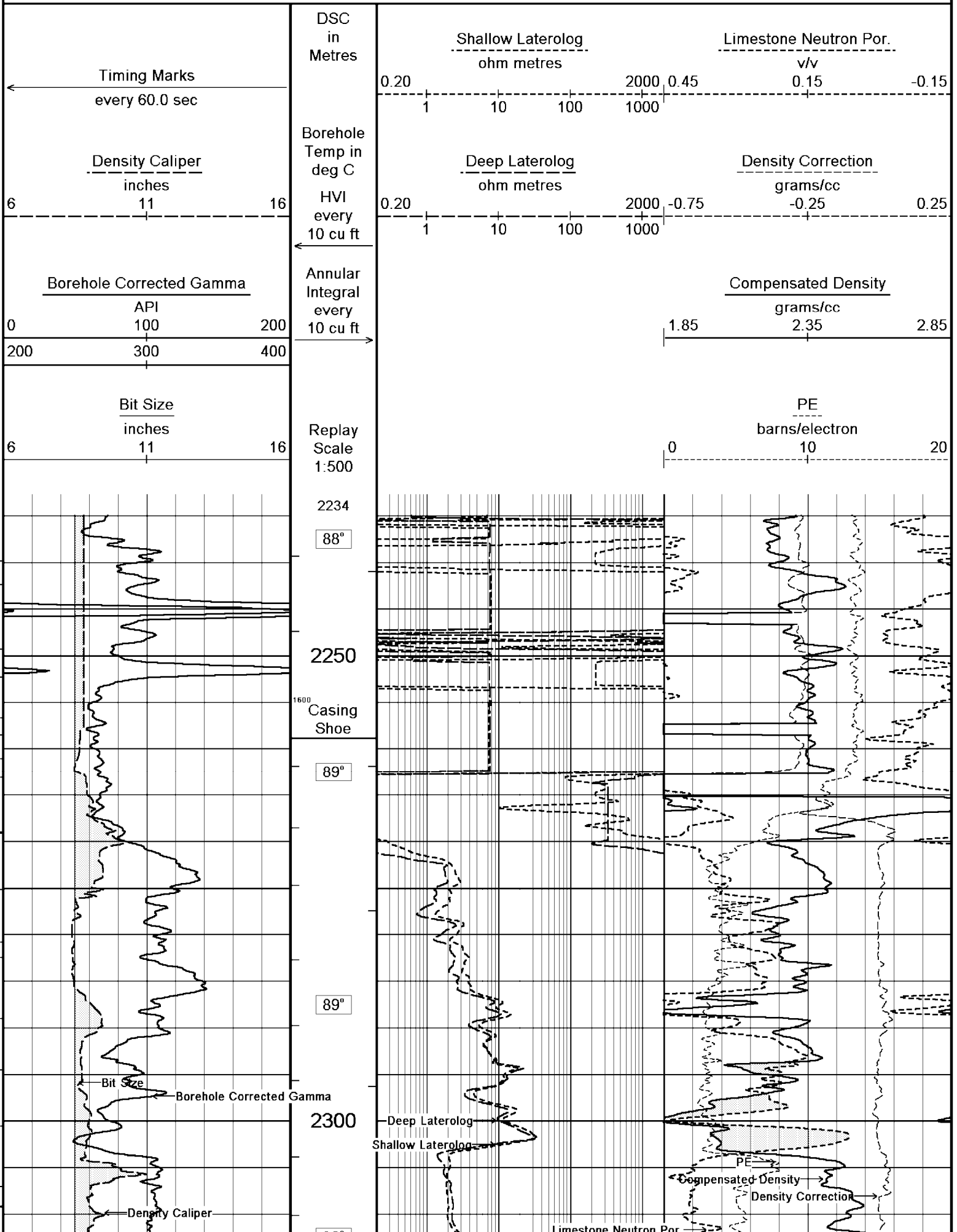
COMPANY				ESSO AUSTRALIA PTY LTD			
WELL				BREAM A10A			
FIELD				BREAM			
PROVINCE/COUNTY				BASS STRAIT			
COUNTRY/STATE				AUSTRALIA			
LOCATION				S 38 29 58.824, E 147 46 19.976			
				N 5738460.340 m, E 567336.310 m			
				FINAL PRINT			
LSD	SEC	TWP	RGE	Other Services			
				COMPENSTAED SONIC			
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	3361.30			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						

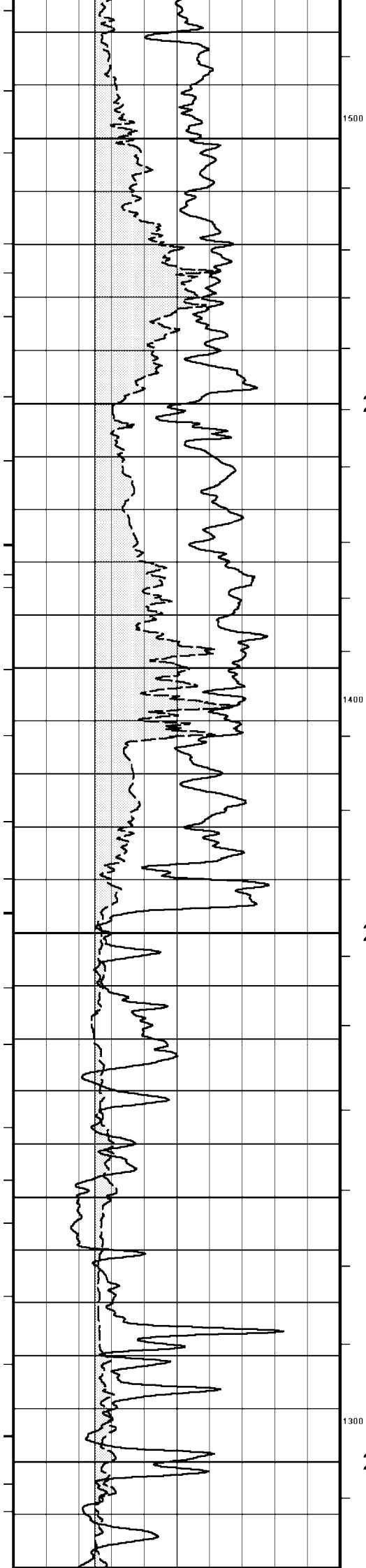
BOREHOLE RECORD		
Bit Size inches	Depth From metres	Depth To metres
8.500	2258.80	3379.50

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





90°

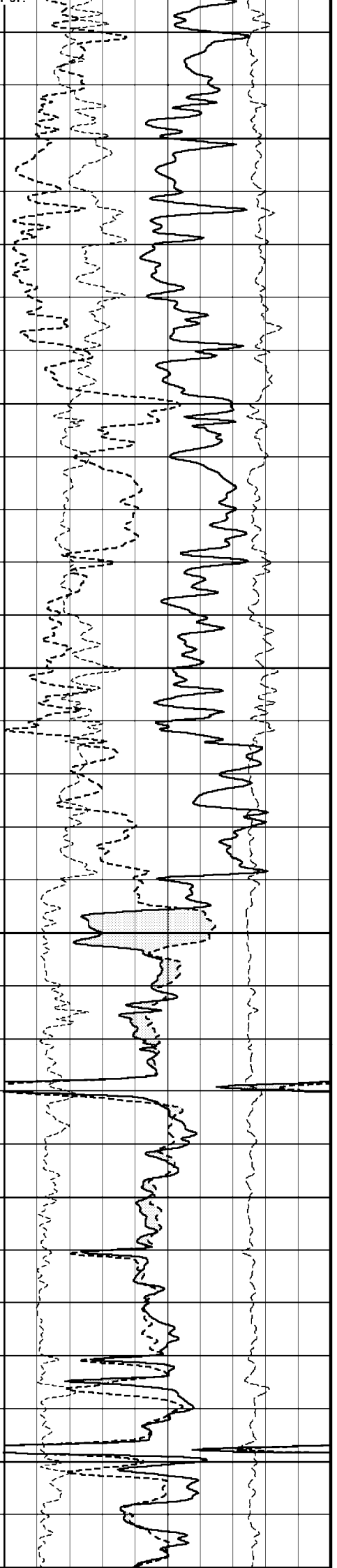
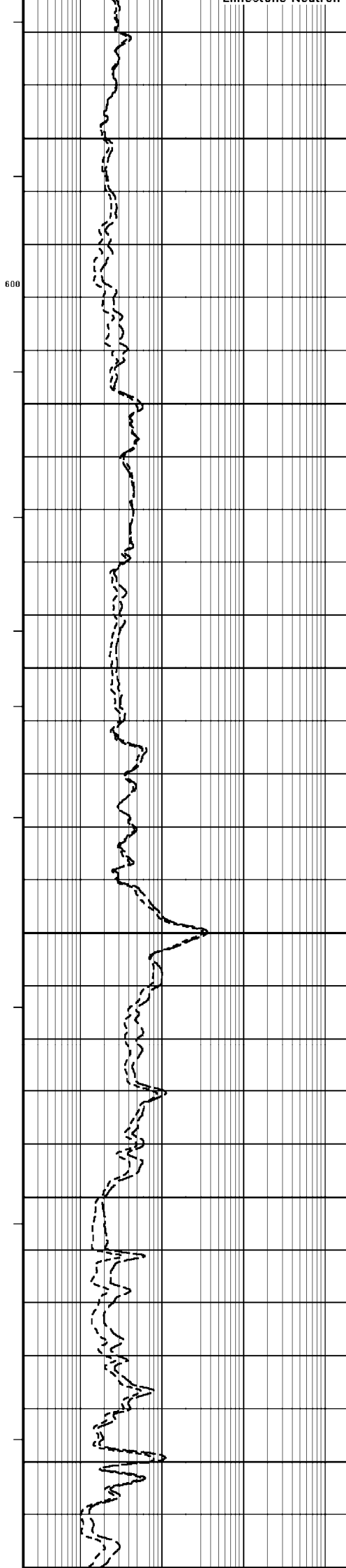
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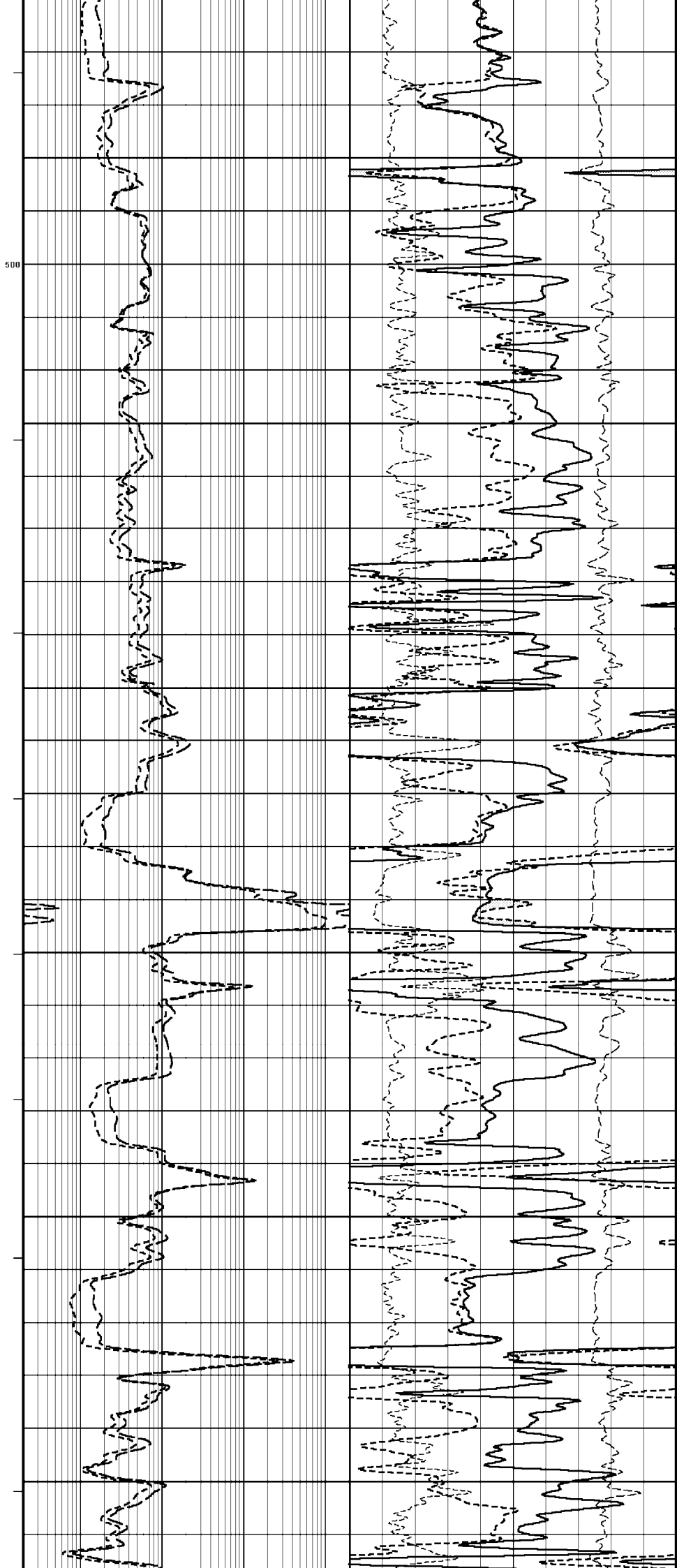
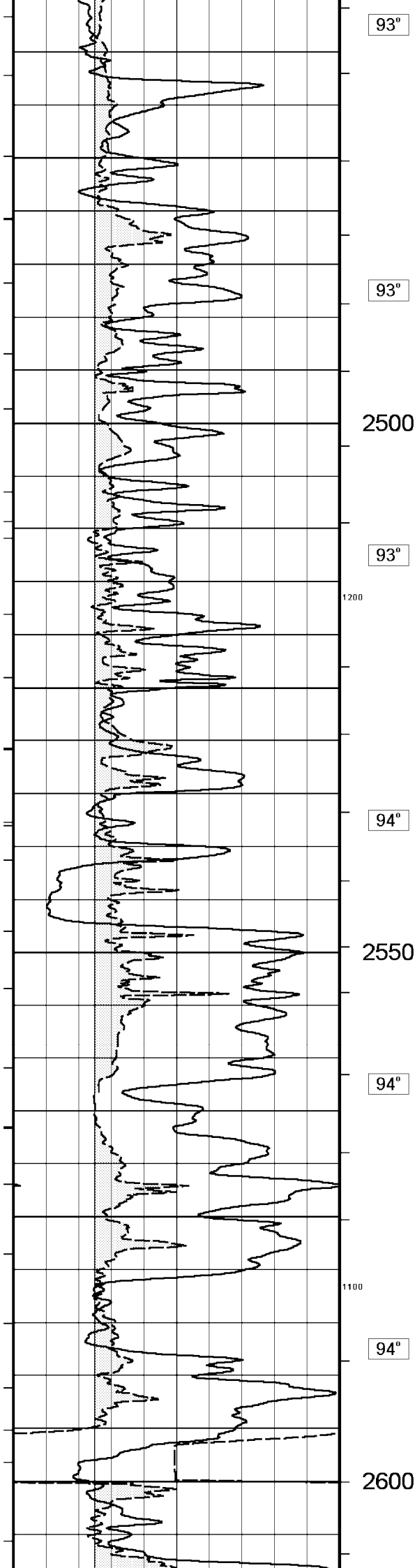
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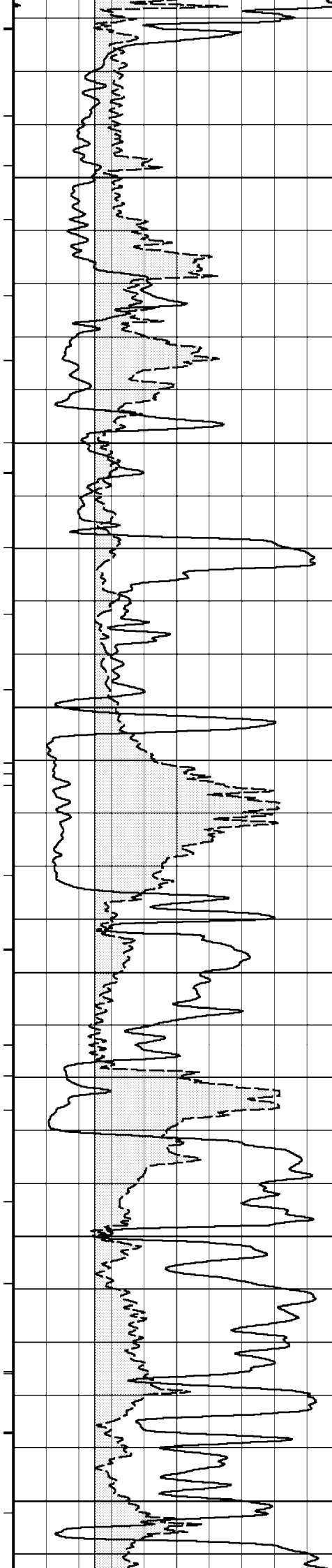
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92°

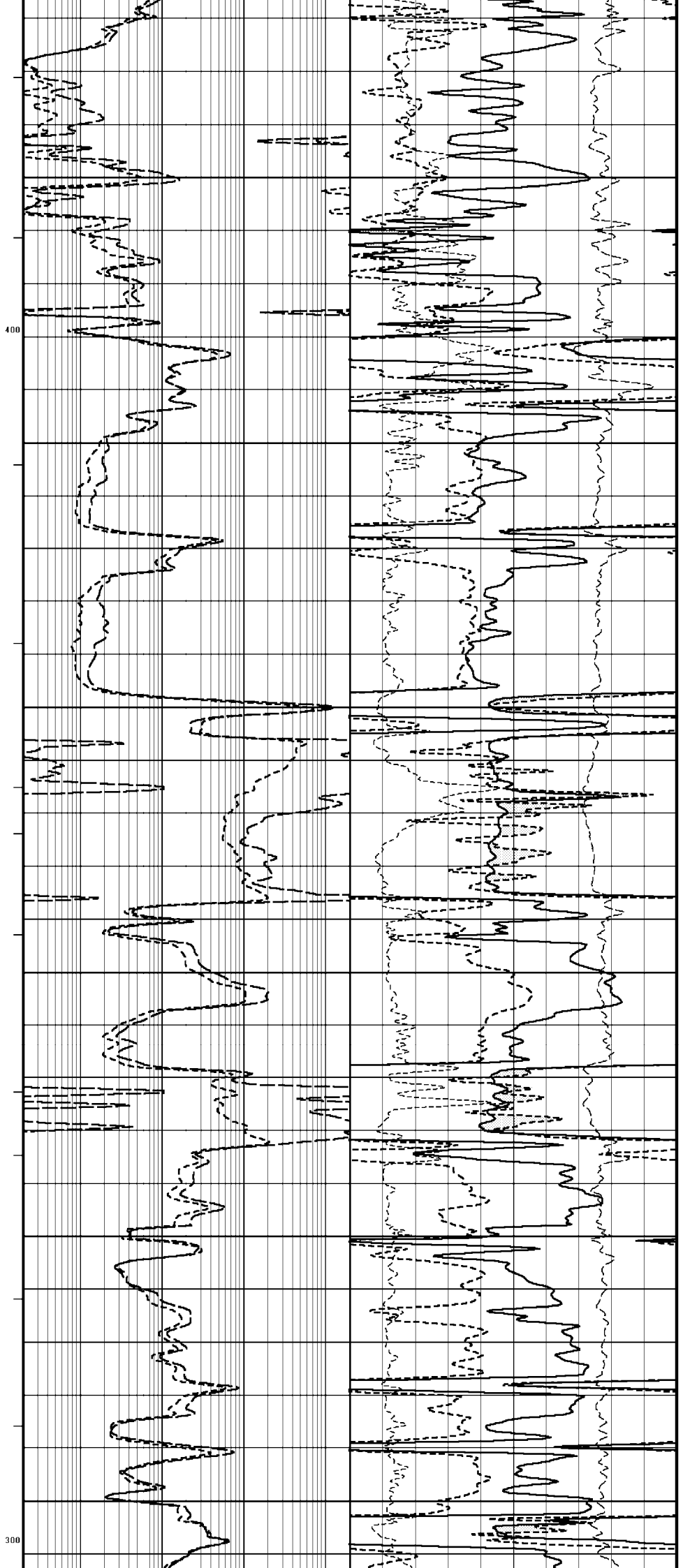
92°

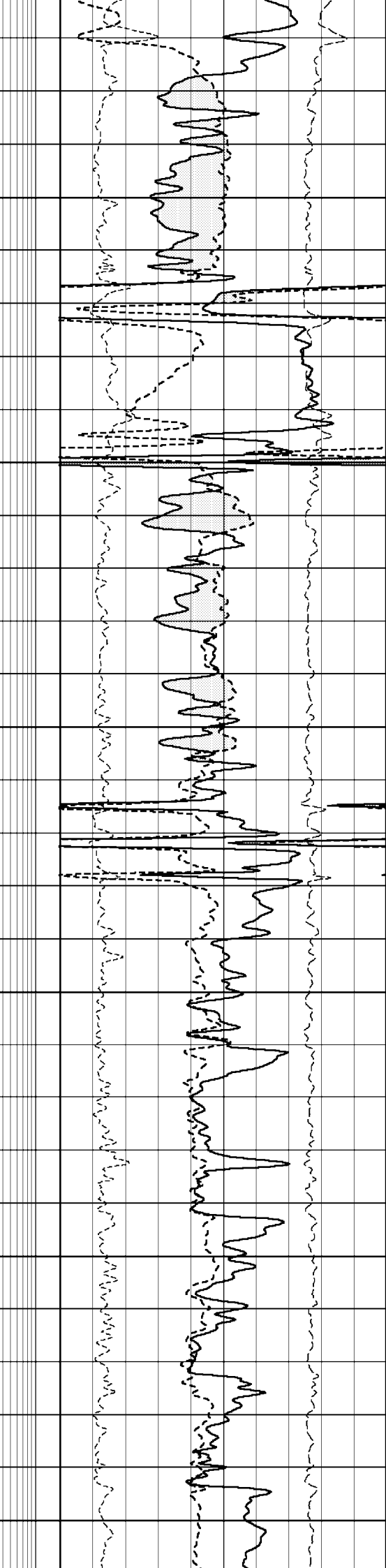
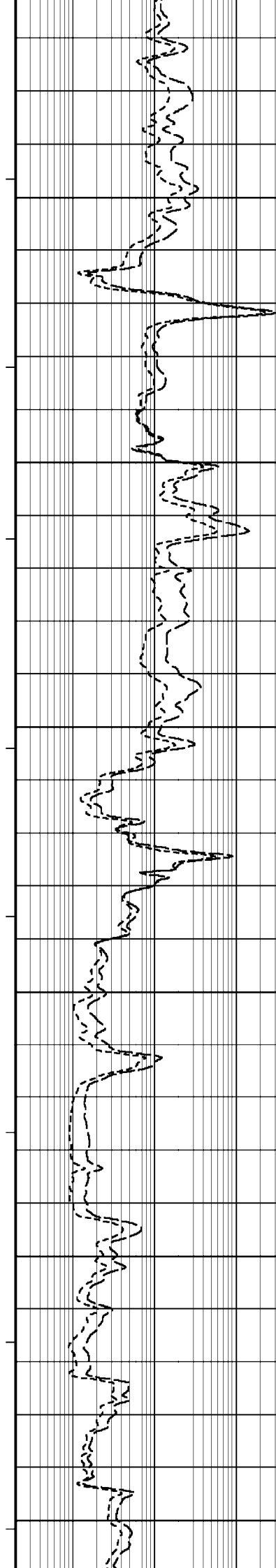
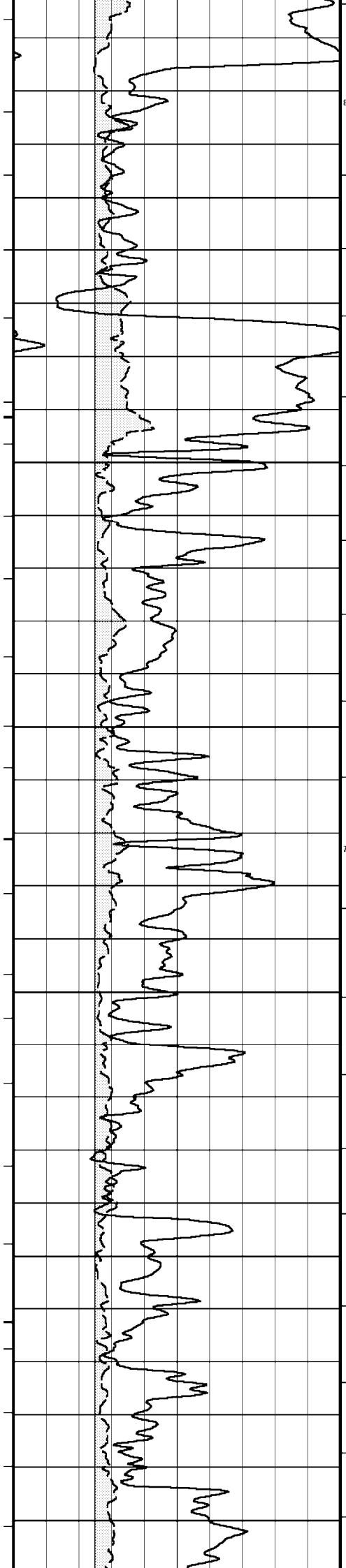


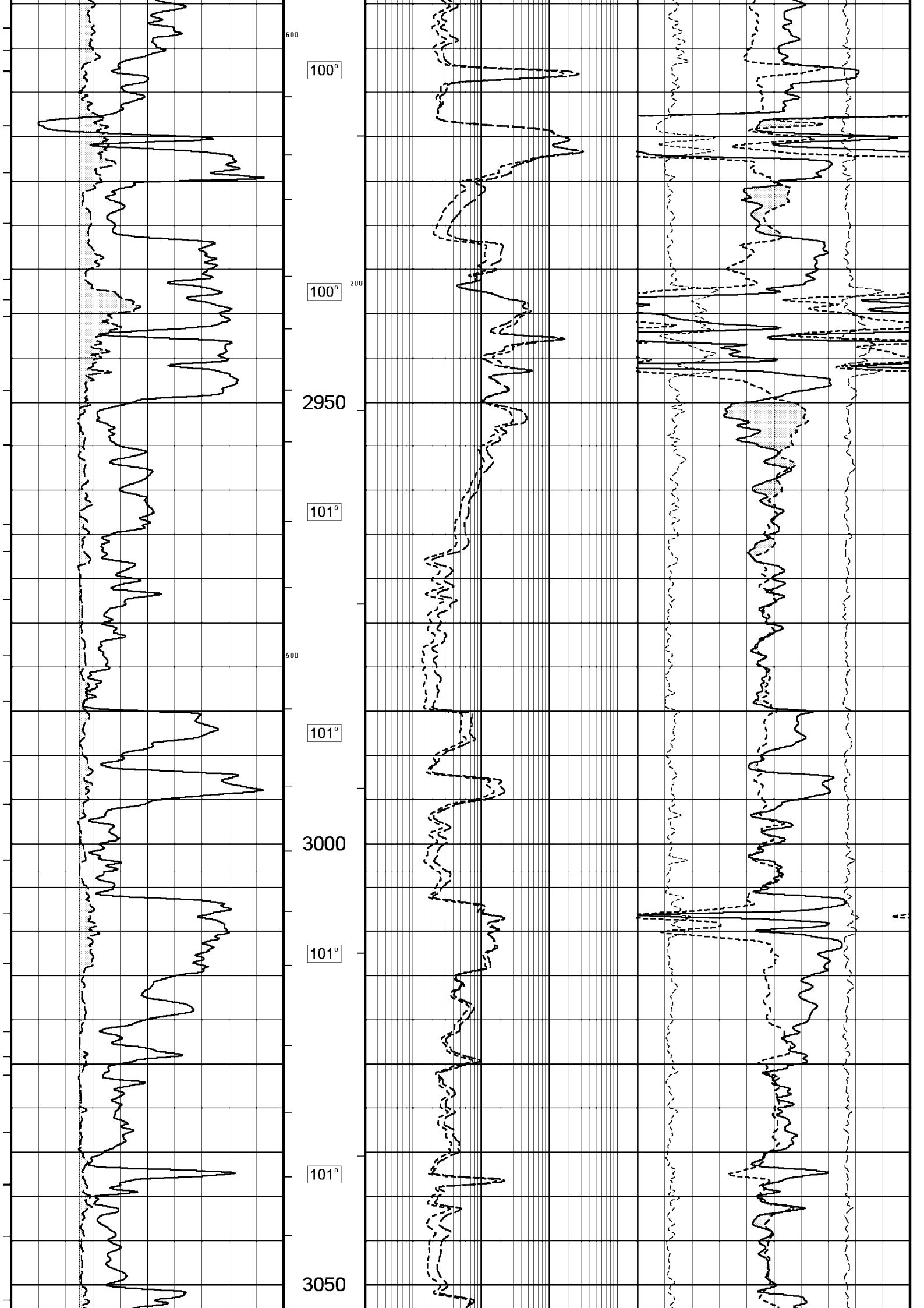


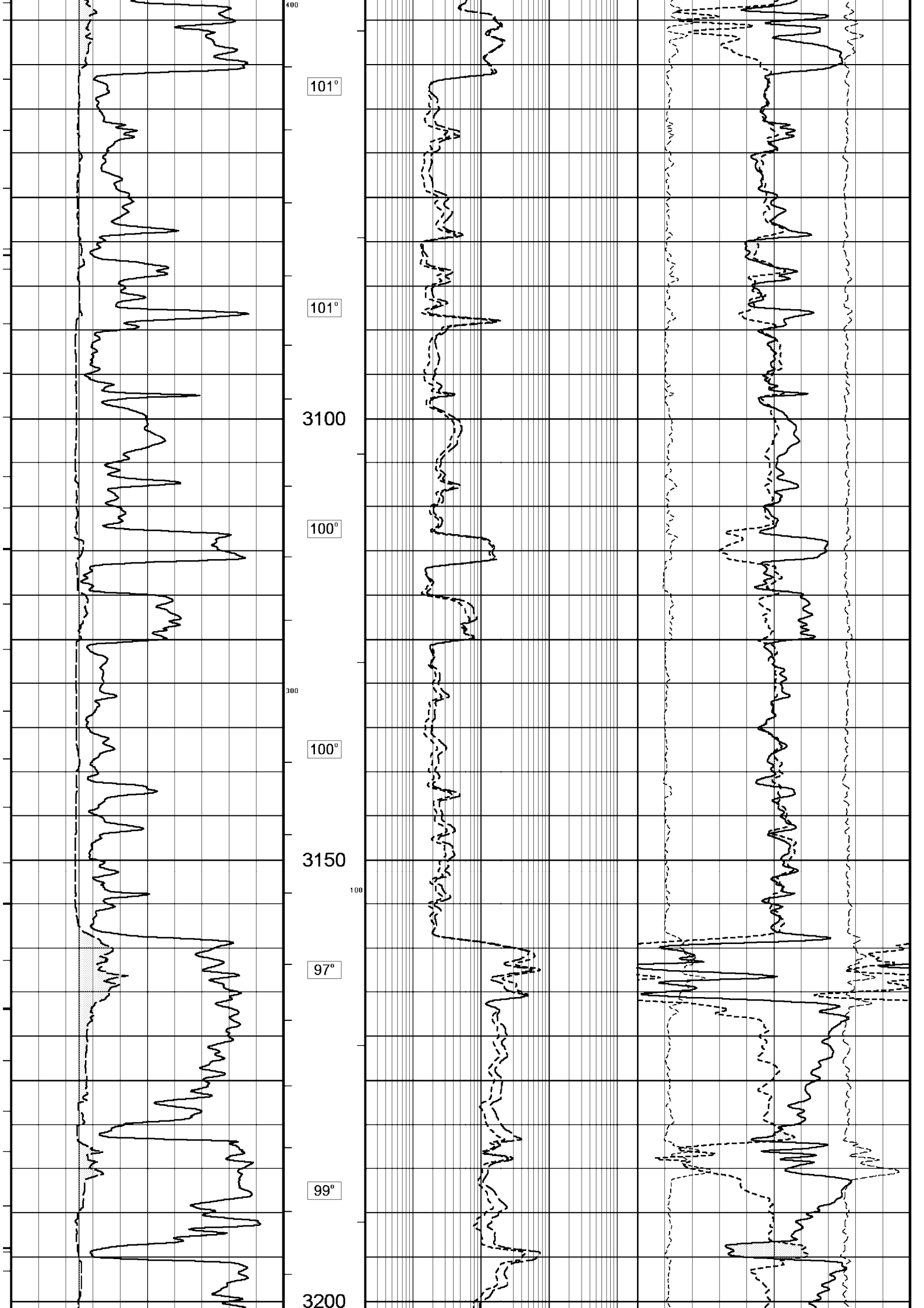


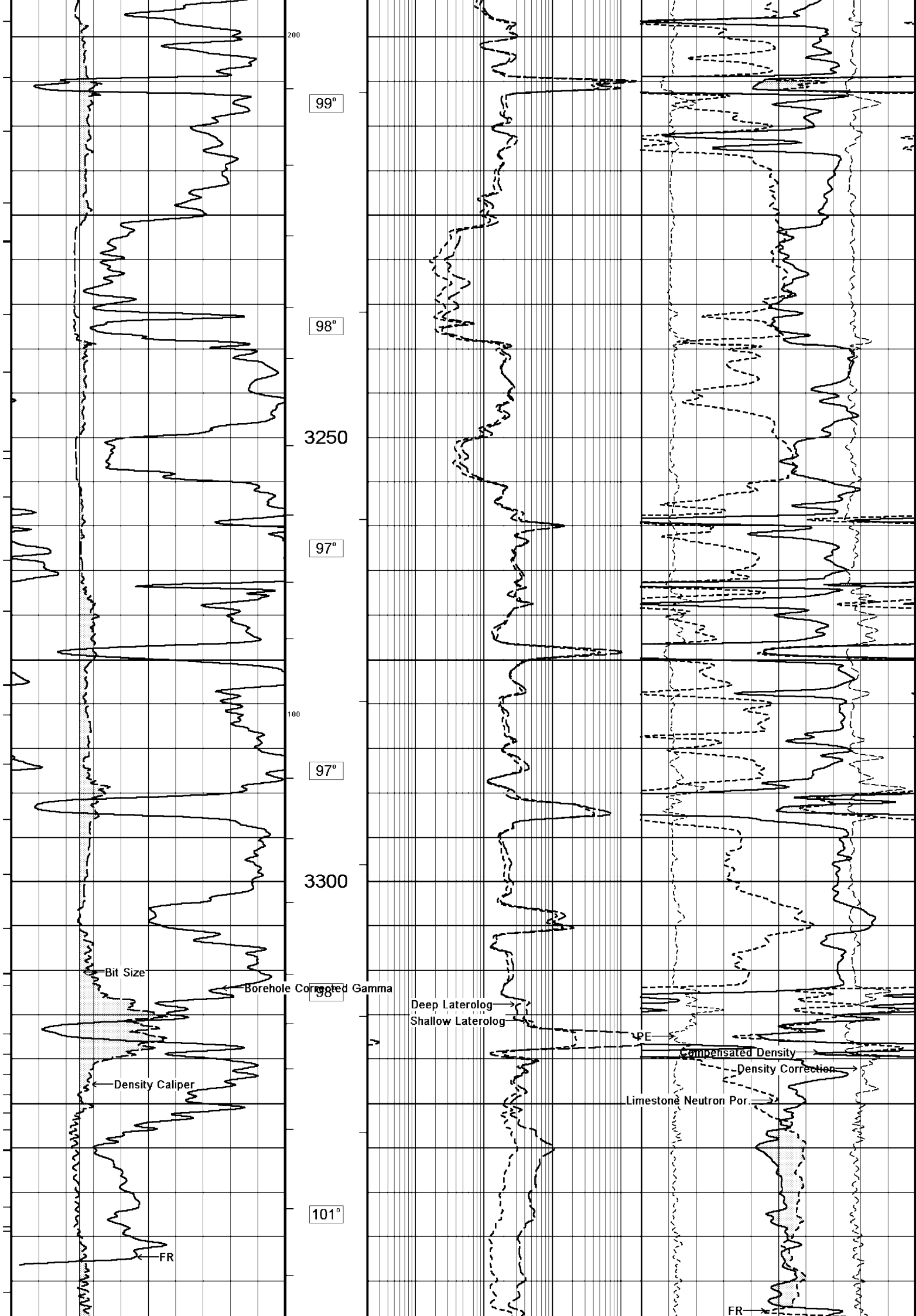
95°
96°
2650
96°
97°
2700
97°
98°
2750











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		
Neutron Calibration MDN 085			Base Calibration on 3-MAY-2005 14:38 Field Check on 8-MAY-2005 02:26	
Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3175	99	3714	110
Ratio	32.086		33.764	
Field Calibrator at Base				
			Calibrated (cps)	
			1662	2343
Ratio			0.709	
Field Check				
			Calibrated (cps)	
			1642	2394
Ratio			0.686	
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	1.21	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	N/A	degrees C		
Mud Salinity	48.80	kppm		
Formation Fluid Salinity Source	None			
Formation Fluid Salinity	N/A	kppm		
Barite Mud Correction	Not Applied			
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	
Photo Density Calibration MPD 083			Base Calibration on 29-APR-2005 12:03 Field Check on 8-MAY-2005 02:34	

Density Calibration

Base Calibration

	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	54668	18905	53111	19310
Reference 2	25684	2508	24951	2530

Field Check at Base

961.4 1114.9

Field Check

959.5 1116.1

PE Calibration

Base Calibration

	WS	Measured		Calibrated
		WH	Ratio	Ratio
Background	183	826		
Reference 1	17043	54473	0.314	0.320
Reference 2	6783	25540	0.267	0.273

Field Check at Base

182.7 825.8

Field Check

182.5 824.4

Density Constants MPD 083

Density Source Id	242
Nylon Calibrator Number	536
Aluminium/Fe Calibrator Number	536
Density Shoe Profile	4 inch
Caliper Source for Processing	Density Caliper
PE Correction to Density	Not Applied
Mud Density	1.21 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

Laterolog Calibration MLE 016

Base Calibration on 29-APR-2005 15:49

Field Check on

Base Calibration

Channel	Resistor 1	Measured		Calibrated (ohm-m)	
		Resistor 2		Resistor 1	Resistor 2
Shallow	9.7	965.8		13.2	1321.0
Deep	9.9	965.6		7.5	755.0
Groningen	9.7	966.4		8.5	854.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	49.2	0.0
Deep	27.9	0.0
Groningen	254.2	0.0

Laterolog Constants MLE 016

Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.3210	
Deep Laterolog K Factor	0.7550	
Groningen Laterolog K Factor	0.8540	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode	
Groningen Connection	Groningen Electrode	

DOWNHOLE EQUIPMENT

C:\logs\BMA_A10A\BMA_A10A_MAIN_LOG_TC_Remark_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

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 30.9 lb

Compact Knuckle Joint
SKJ 100 Length: 0.66 m Weight: 24.3 lb



32.22 m

31.33 m

GGCE - Borehole Corrected Gamma

CGXT - MCG External Temperature

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

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

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

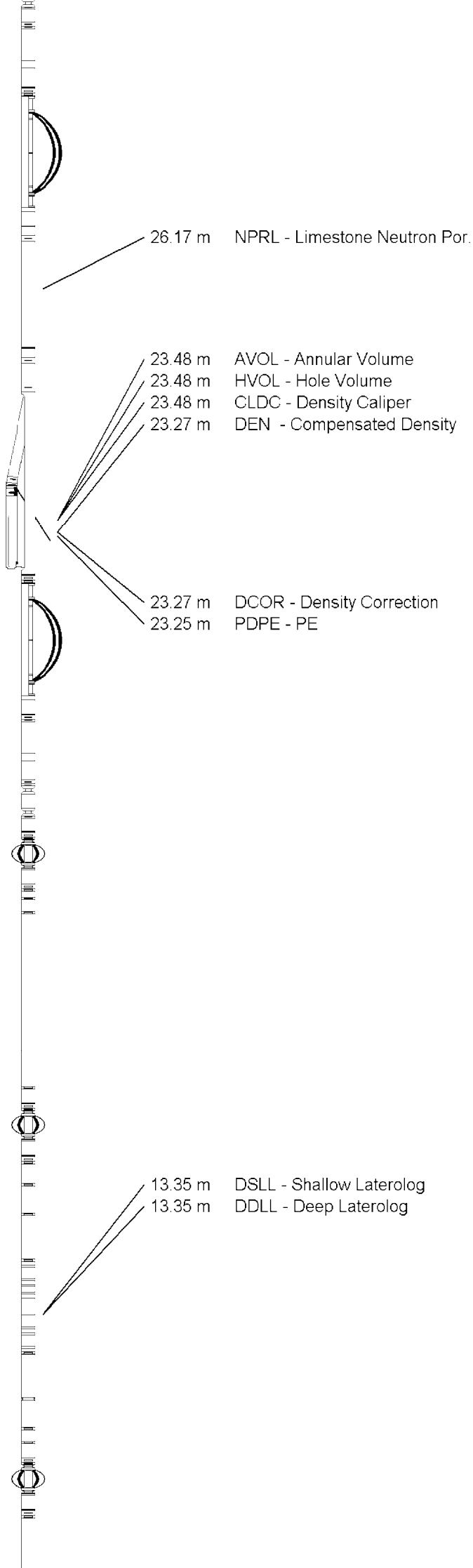
Compact Upper Guard Sub.
MUG 20 Length: 2.74 m Weight: 68.3 lb

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



Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

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

Elevation Kelly Bushing	metres	First Reading	3361.30	metres
Elevation Drill Floor 32.82	metres	Depth Driller	3379.50	metres
Elevation Ground Level -59.40	metres	Depth Logger	3375.10	metres



Compact

DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:500 MD