

Reeves

Compact

Photo Density
Compensated Neutron

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		
Permit Number	VIC/L11 Compensated Sonic		
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. MENHENIT, L. CULLEN		
Circ. Stopped	1400 4-MAY		

FINAL PRINT

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

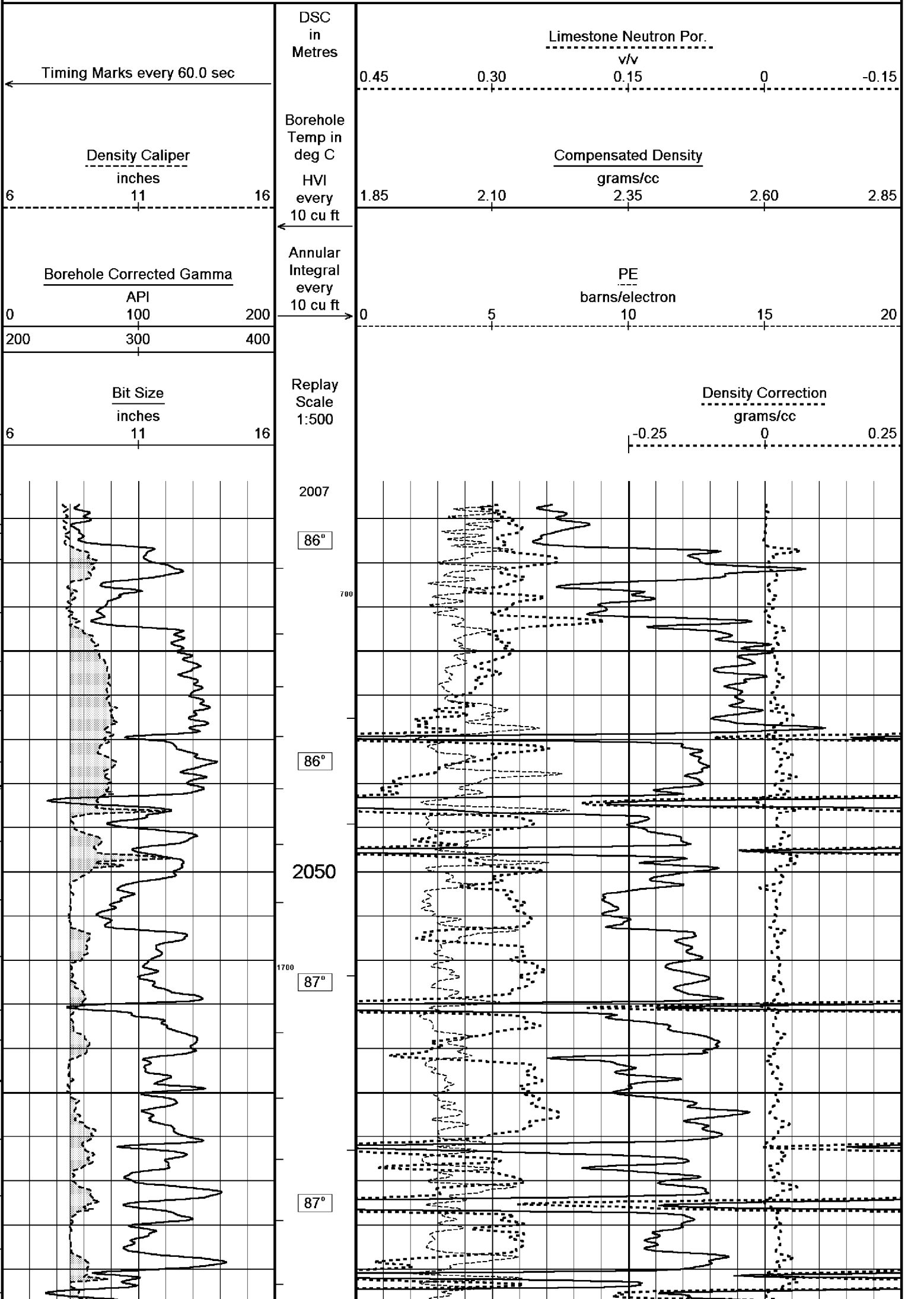
MAXIMUM TEMPERATURE: 90.6°C @ 2654.30 mMD

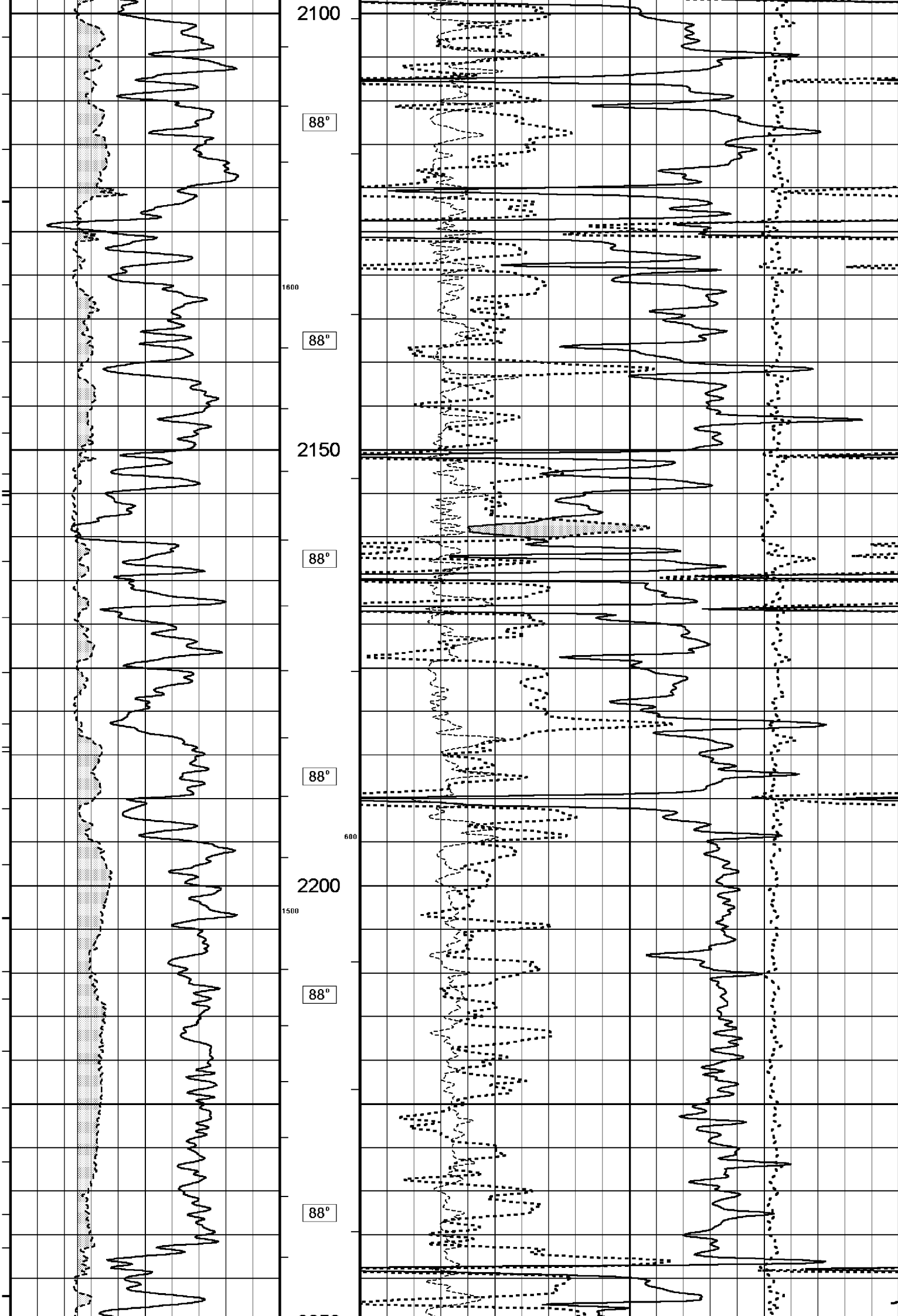
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

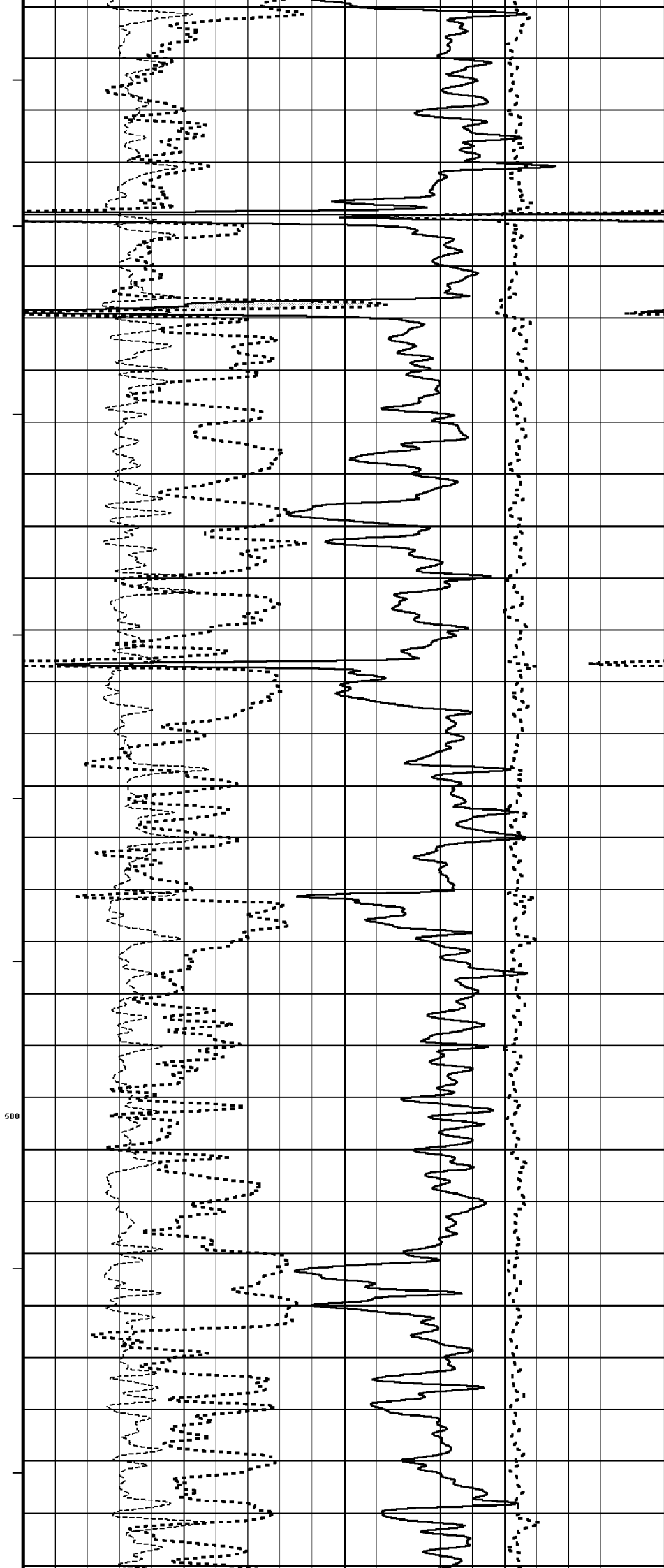
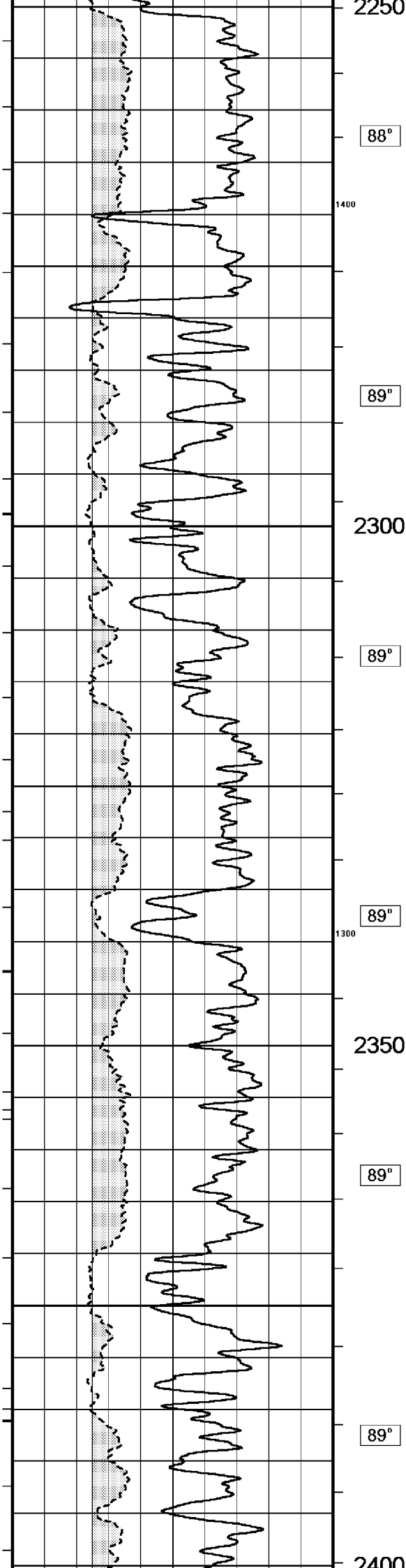
MAIN LOG 1:500

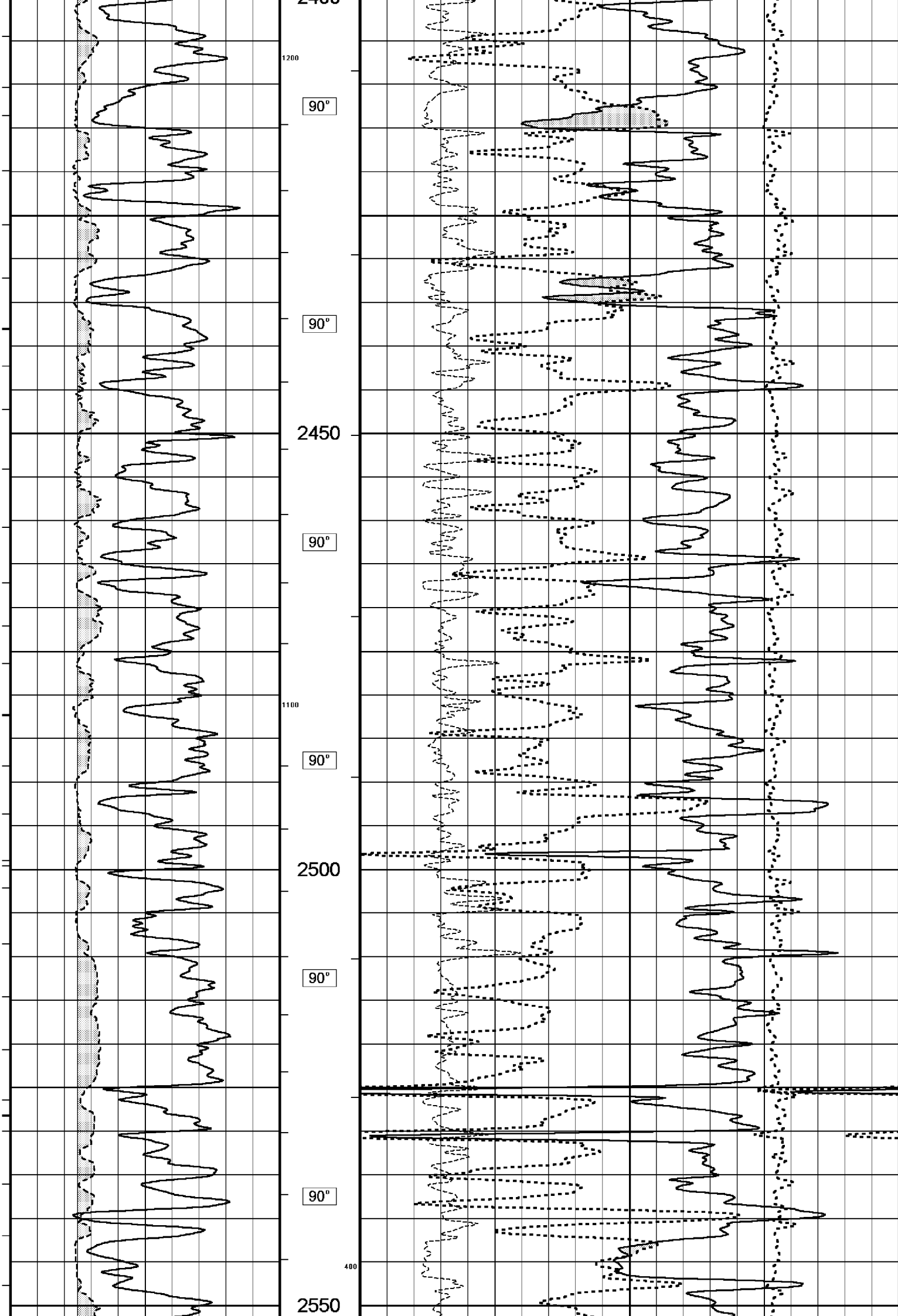
Depth Based Data - Maximum Sampling Increment 10.0cm

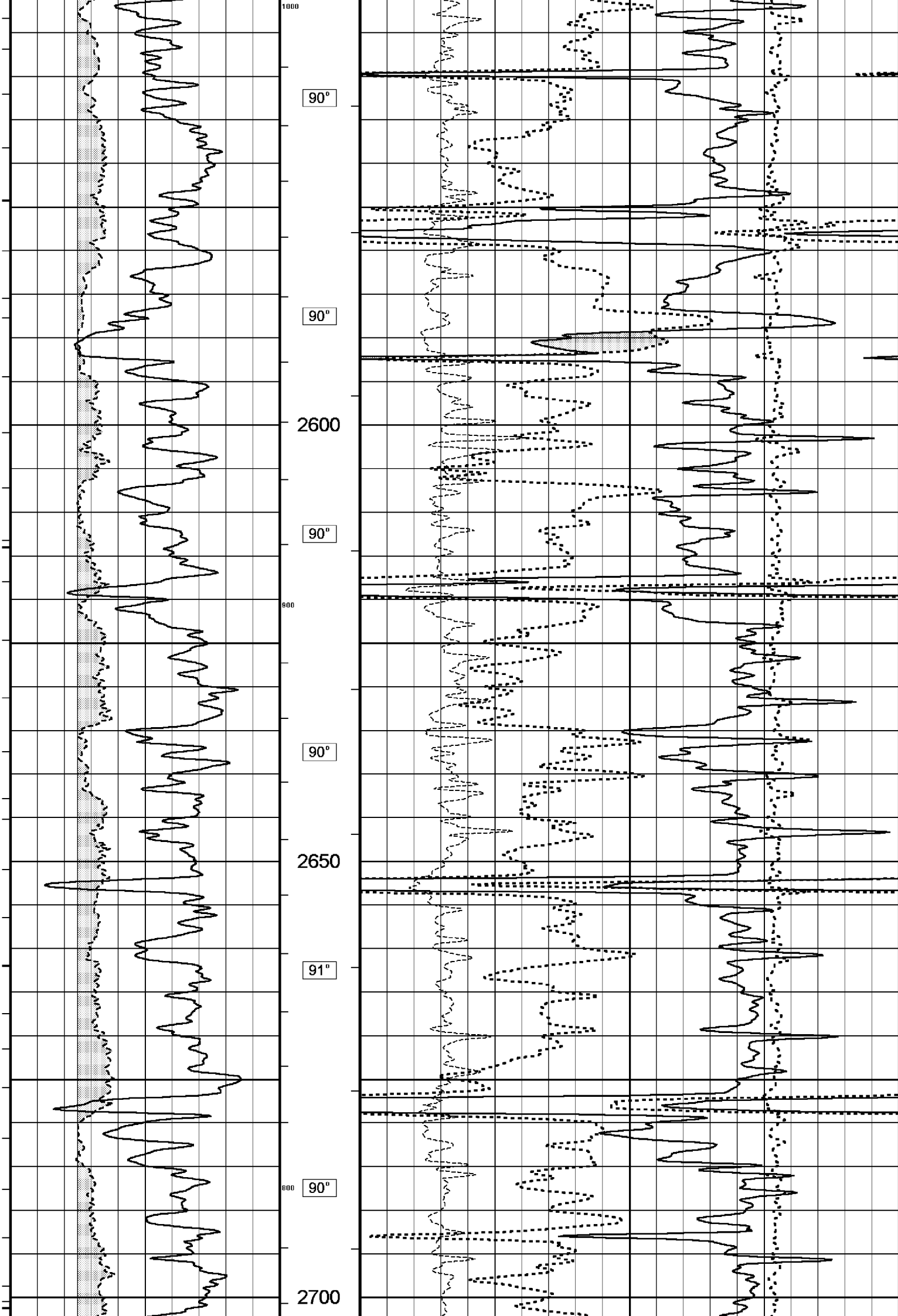
Plotted on 24-SEP-2004 13:14

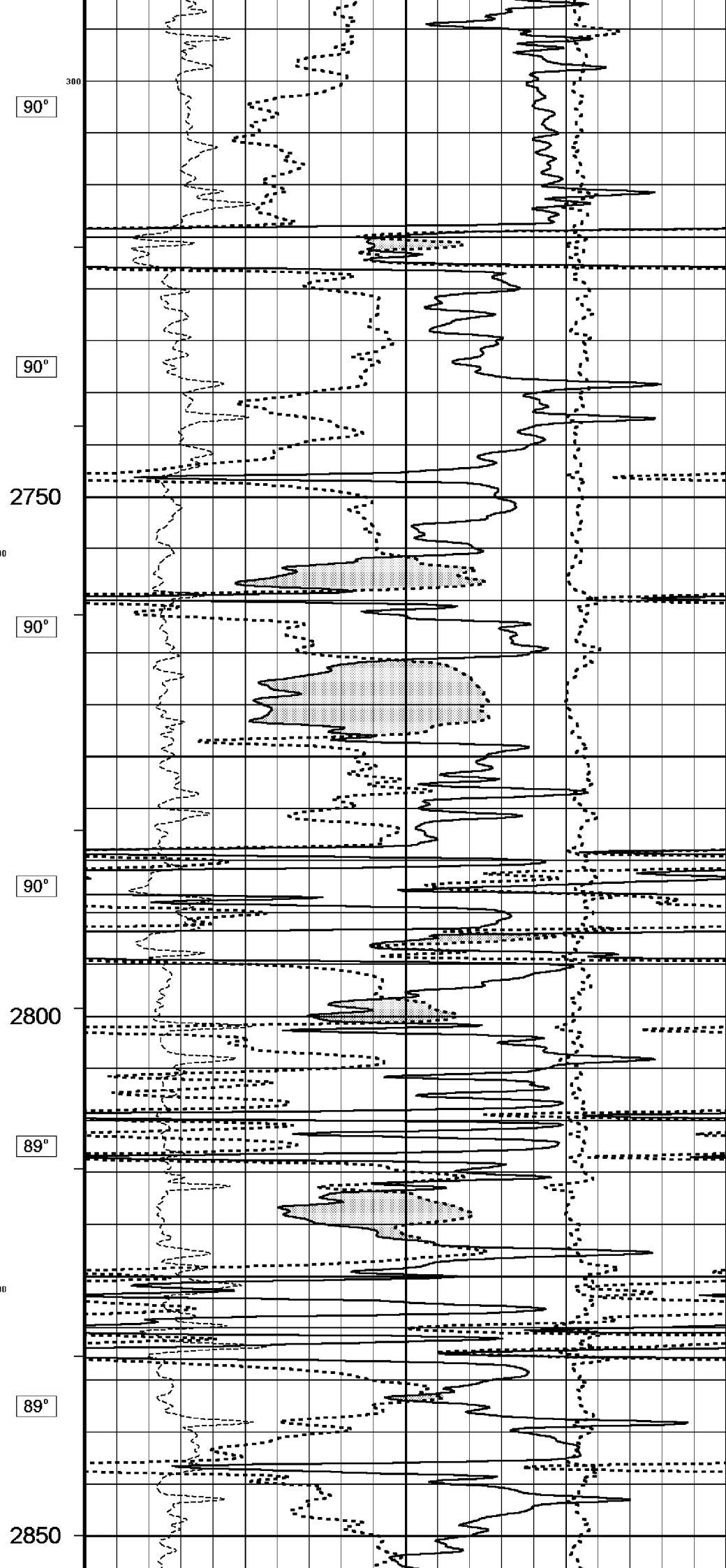
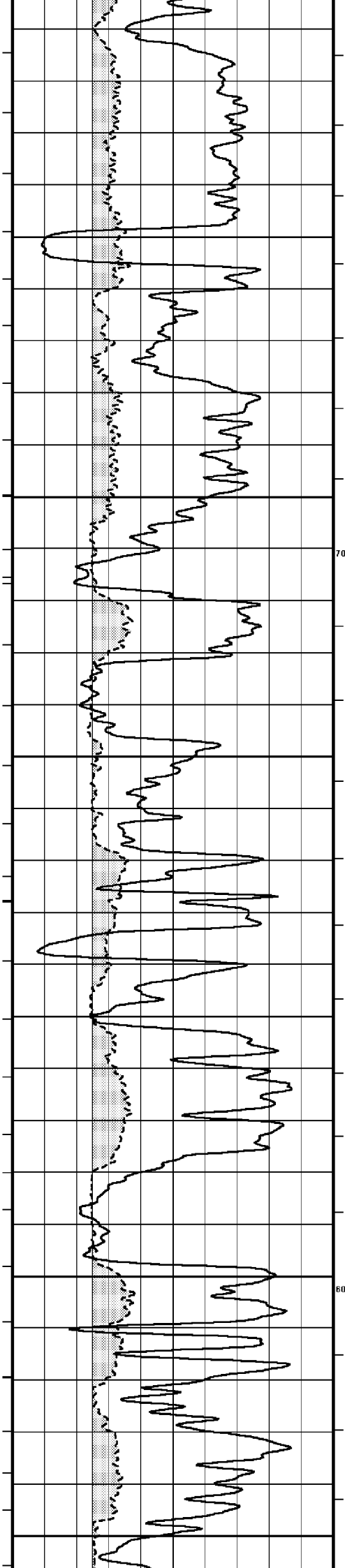


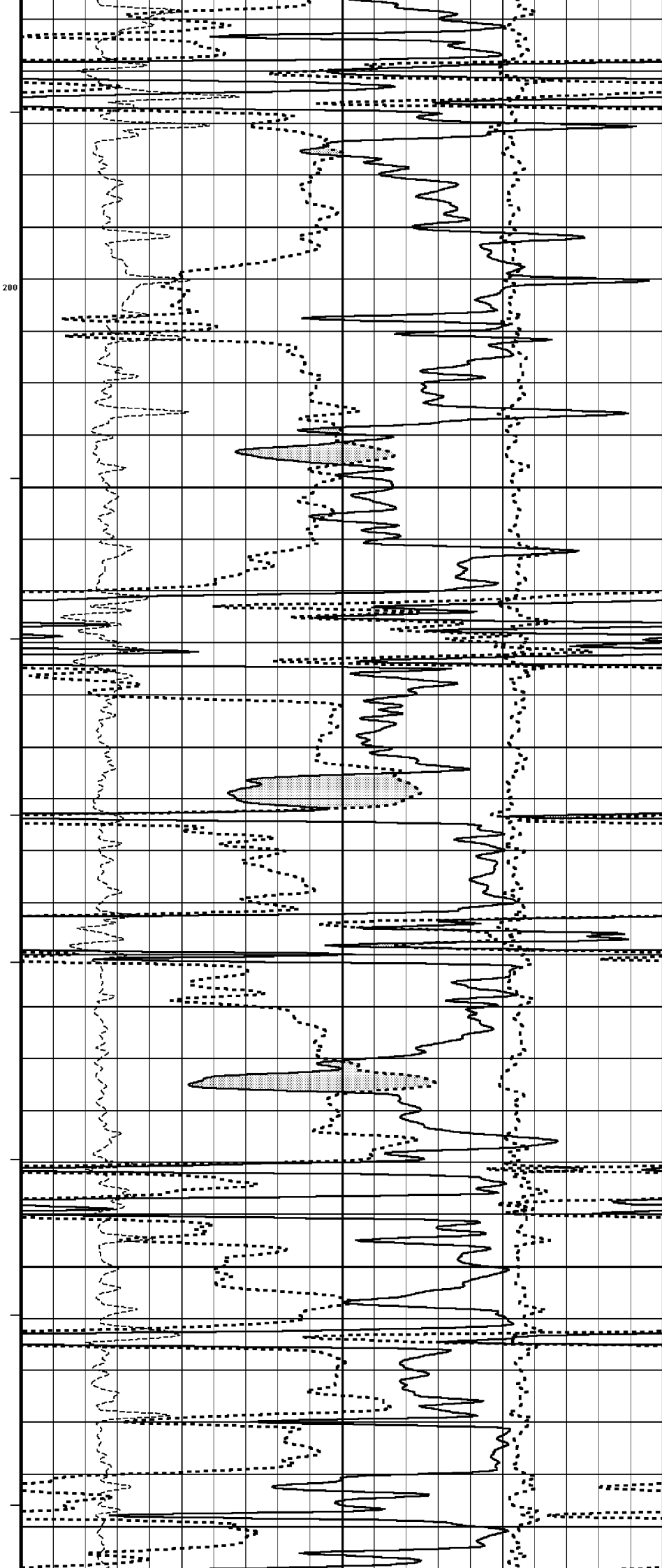
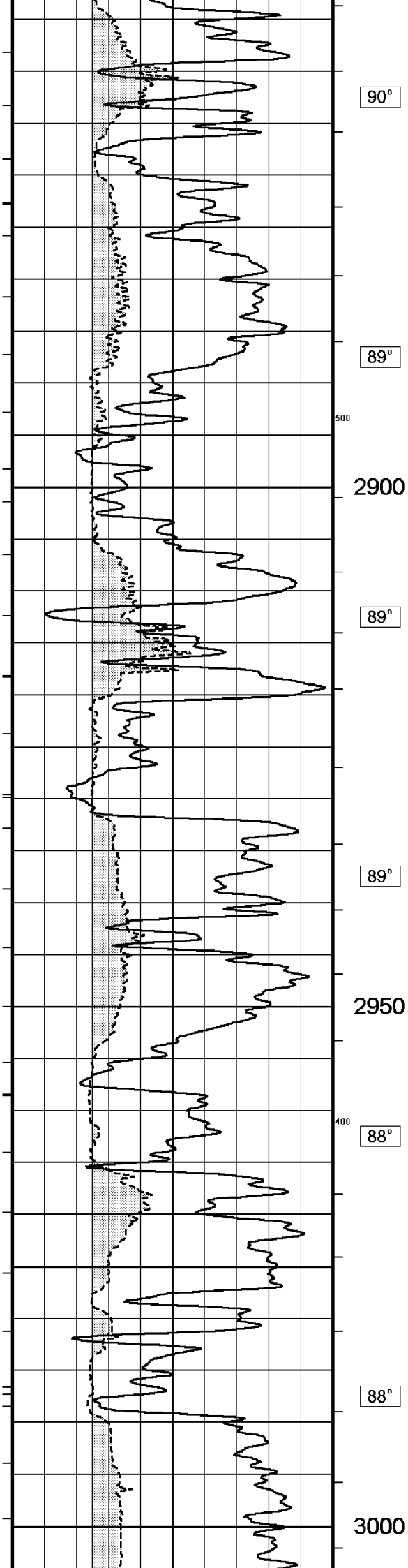


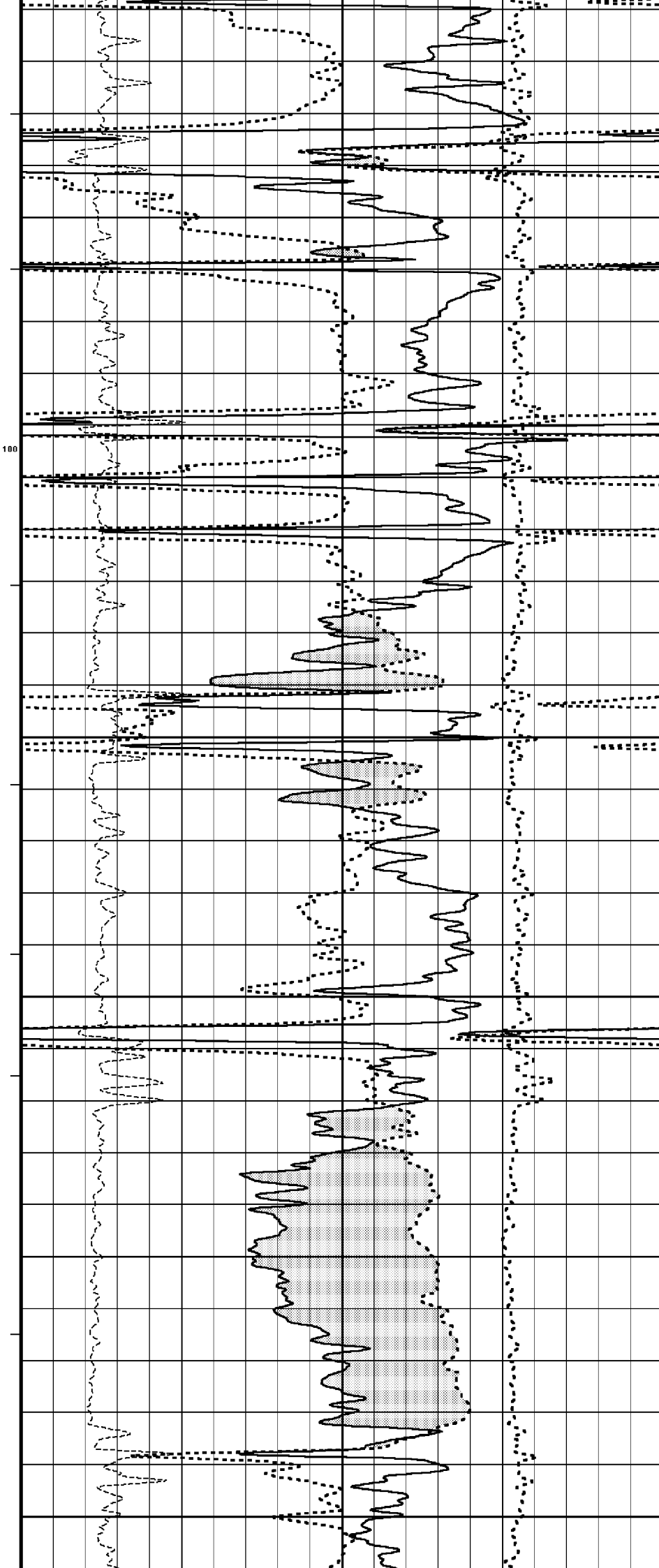
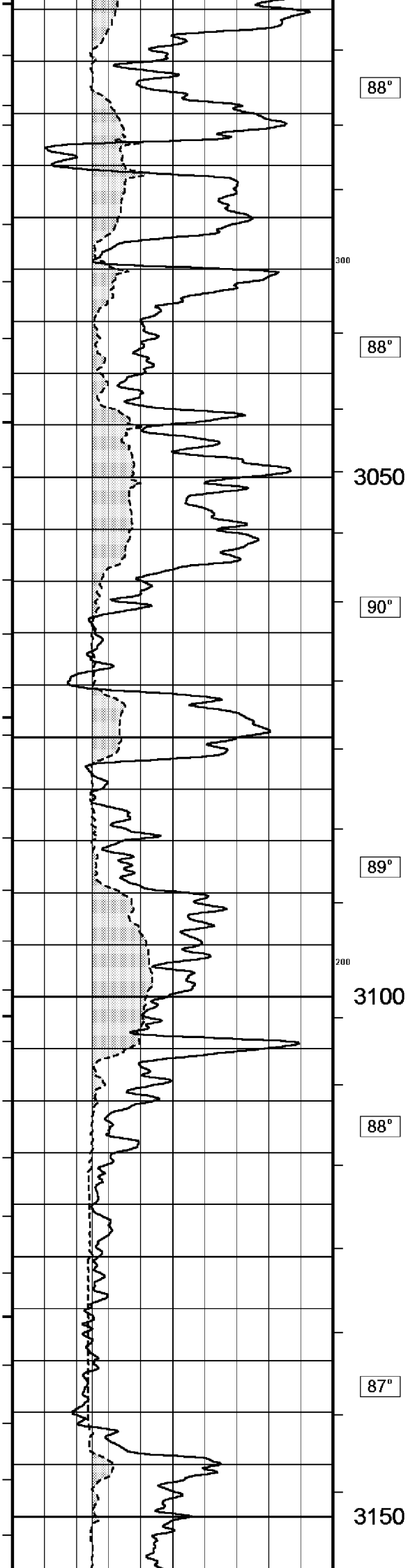


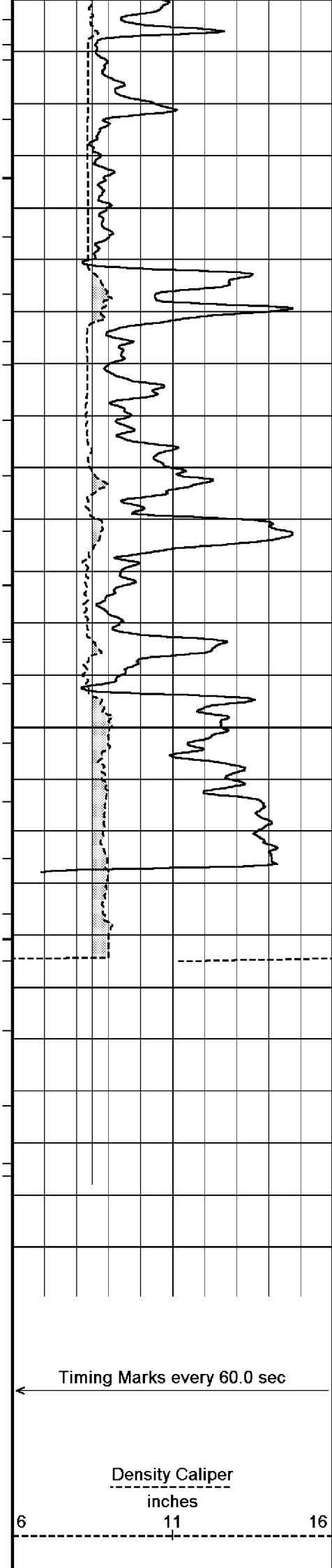












86°

100

85°

3200

84°

82°

3250

3278

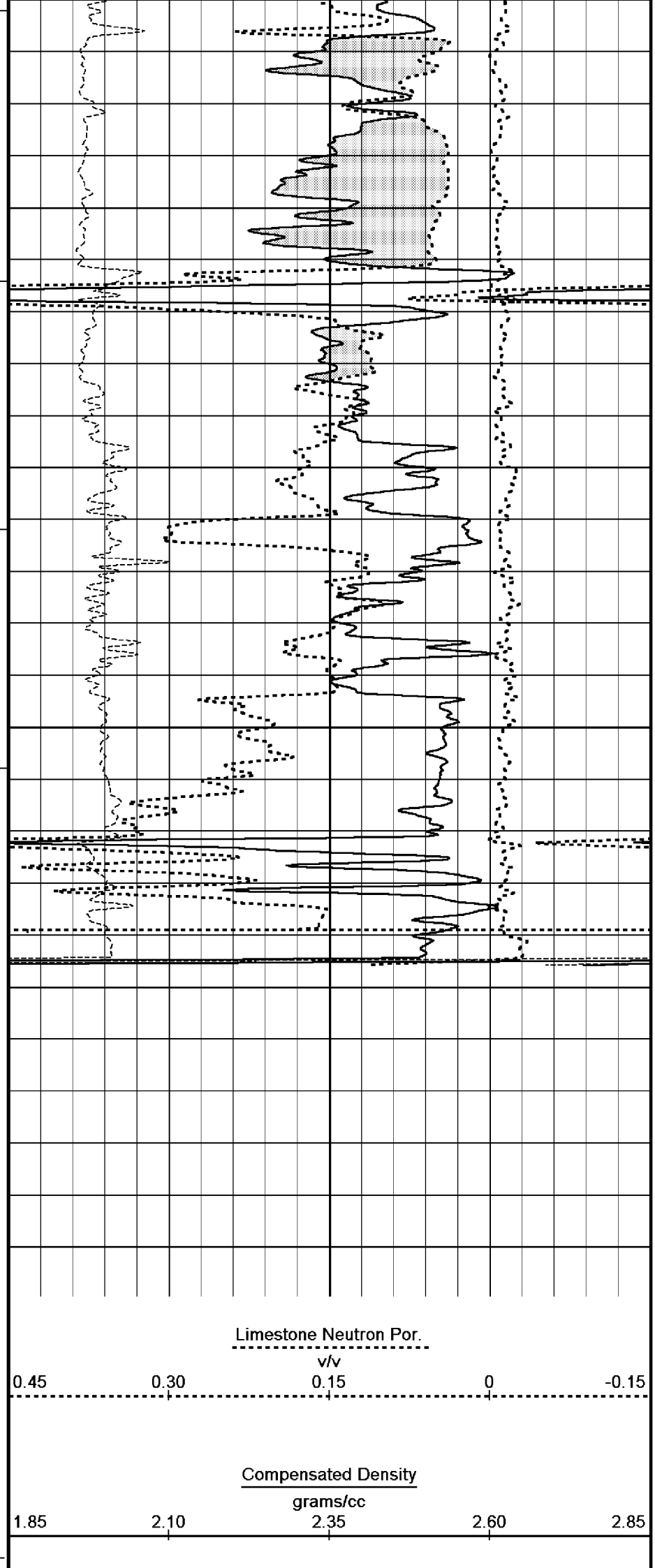
DSC
in
Metres

Borehole
Temp in
deg C
HVI
every
10 cu ft

Timing Marks every 60.0 sec

Density Caliper
inches

6 11 16



Limestone Neutron Por.

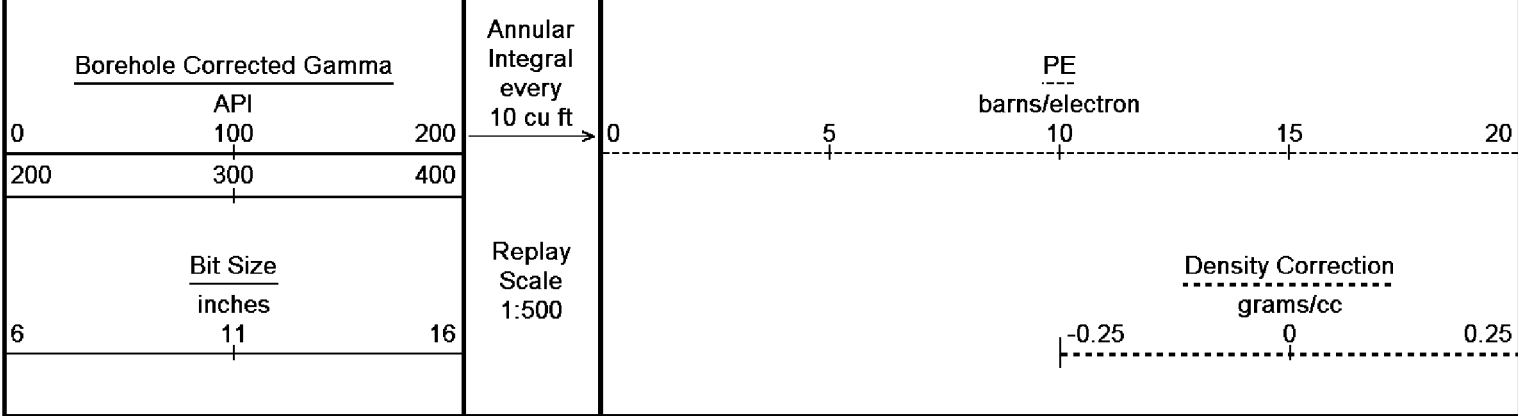
v/v

0.45 0.30 0.15 0 -0.15

Compensated Density

grams/cc

1.85 2.10 2.35 2.60 2.85



Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 24-SEP-2004 13:14

Filename: C:\Marlin\MLA A24a\Final Data Presentations\...MLA A24A MAIN LOG MPD.dta

Recorded on 06-MAY-2004 16:05

System Configuration Dates: Logged 09-SEP-2003: Processed 09-SEP-2003: Plotted 25-JUN-2003:

MAIN LOG 1:500

BEFORE SURVEY CALIBRATION

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

Neutron Calibration MDN 085			Base Calibration on 20-APR-2004 10:18
Base Calibration			Field Check on 3-MAY-2004 10:35
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	3167 98	3714 110	
Ratio	32.172	33.764	
Field Calibrator at Base		Calibrated (cps)	

Field Calibrator at Base	
	Calibrated (cps) 1647 2404
Ratio	0.685

Field Check	
	Calibrated (cps) 1635 2387
Ratio	0.685

0.00

0.00

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

DOWNHOLE EQUIPMENT

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

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

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: 1.53 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 DCOR - Density Correction

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

23.27 m DEN - Compensated Density
23.25 m PDPE - PE

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

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



Tool Zero (0.32m from bottom)

All measurements relative to tool zero.

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

Reeves
Compact

Photo Density
Compensated Neutron
1:500 MD

