



COMPENSATED SONIC  
1:500 MD

COMPANY	ESSO AUSTRILIA PTY LTD				
WELL	BREAM A5A				
FIELD	BREAM				
PROVINCE/COUNTRY	BASS STRAIT				
COUNTRY/STATE	AUSTRALIA				
LOCATION	S 38 29 58.778, E 147 46 20.334 N 5738461.680 m, E 567345.000 m				
LSD	SEC	TWP	RGE	Other Services	
API Number				DUAL LATEROLOG	
Permit Number				COMPENSATED NEUTRON	
Permanent Datum MSL	, Elevation 0.0 metres				Elevations:
Log Measured From RT @ 32.82m	above Permanent Datum				KB 32.82 metres
Drilling Measured From RT					DF -59.40 metres
Date	16-JUN-2005				
Run Number	ONE				
Depth Driller	2810.00				metres
Depth Logger	2803.90				metres
First Reading	2798.80				metres
Last Reading	895.00				metres
Casing Driller	895.50				metres
Casing Logger	895.00				metres
Bit Size	8.50				inches
Hole Fluid Type	KC/POLY/GYL				
Density / Viscosity	10.10 lb/USg				28.00 cP
PH / Fluid Loss	9.10				2.80 ml/30Min
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.115 @ 25.0				ohm-m
Rmf @ Measured Temp	0.089 @ 25.0				ohm-m
Rmc @ Measured Temp	0.181 @ 25.0				ohm-m
Source Rmf / Rmc	PRESS				PRESS
Rm @ BHT	0.052 @ 83.0				ohm-m
Time Since Circulation	27 HOURS				
Max Recorded Temp	83.00				deg C
Equipment Name	CWS/CML				
Equipment / Base	1				SALE
Recorded By	R. TENCH, B. MOSS				
Witnessed By	TREVOR LOBO				
CIRC STOPPED	16:30 15-Jun				

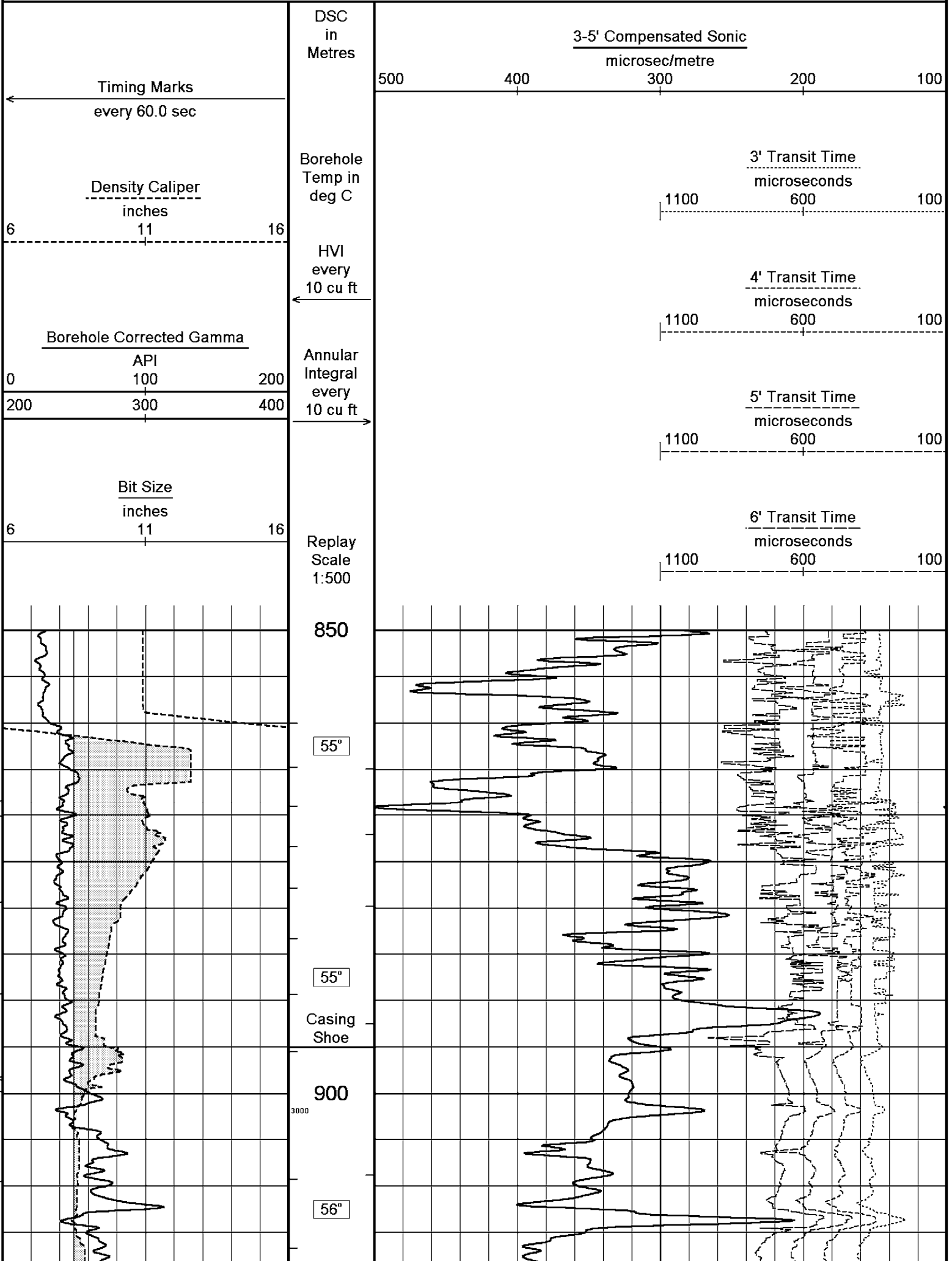
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		895.00		2810.00
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	13.375	0.00	895.00	54.50

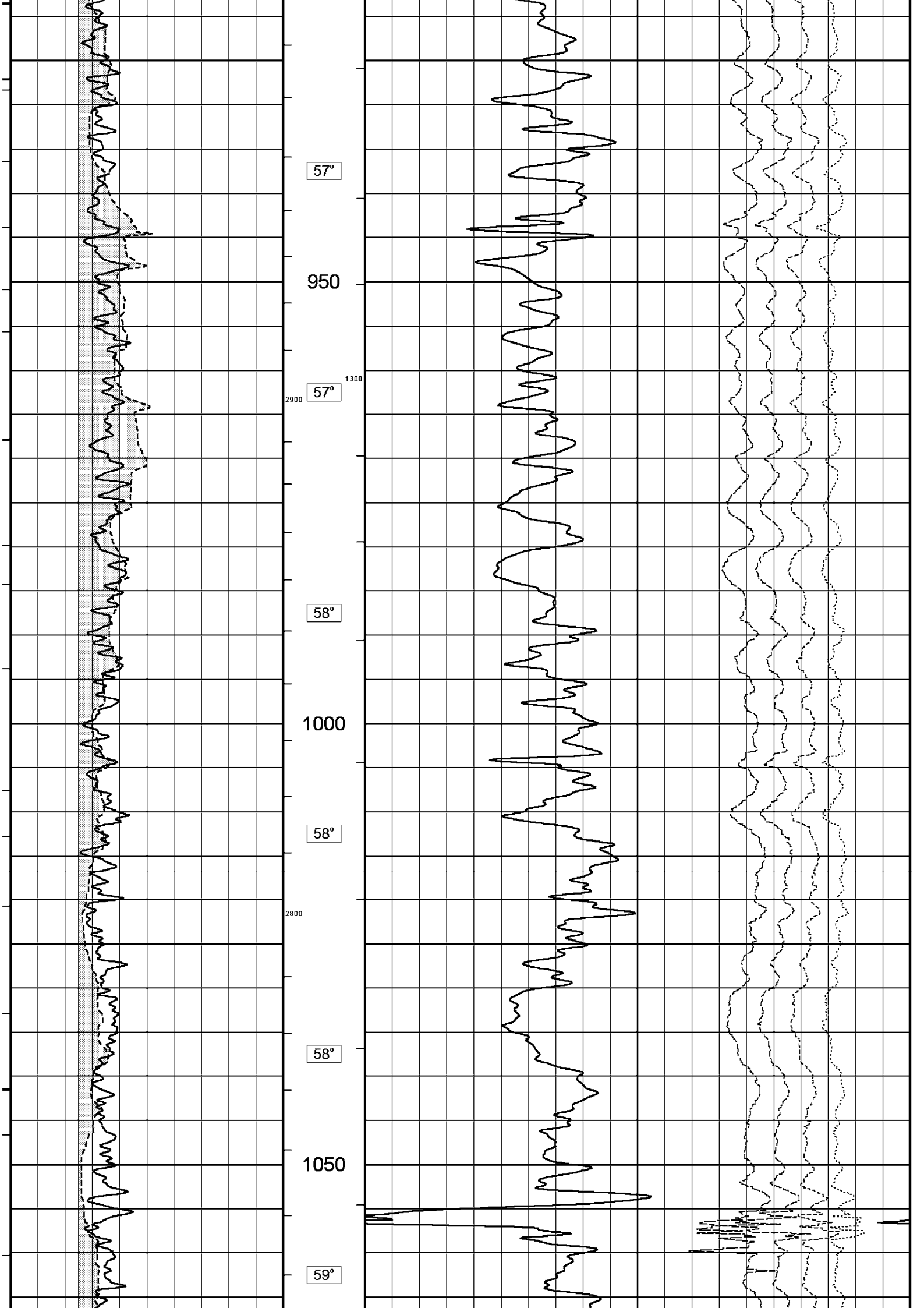
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, K LUCIEER.
ALL LOGS DEPTH CORRELATED TO ANADRILL GAMMA LOG.
DURING TRIP IN, DRILL PIPE BRIDGED AT 2071m, REQUIRED 30RPM AND 10BLS FLOW TO REACH TD
MAX. TEMPERATURE: 83 DEG C AT 2763m MD MAX. INCLINATION: 58.40 DEG AT 2810.0m MD MAX. DOGLEG SERVERITY: 6.21 DEG/30m AT 1160.6m MD DEPLOYMENT ANGLE: 58 DEG
HVOL: 3000 FT^3 AVOL: 1330 FT^3

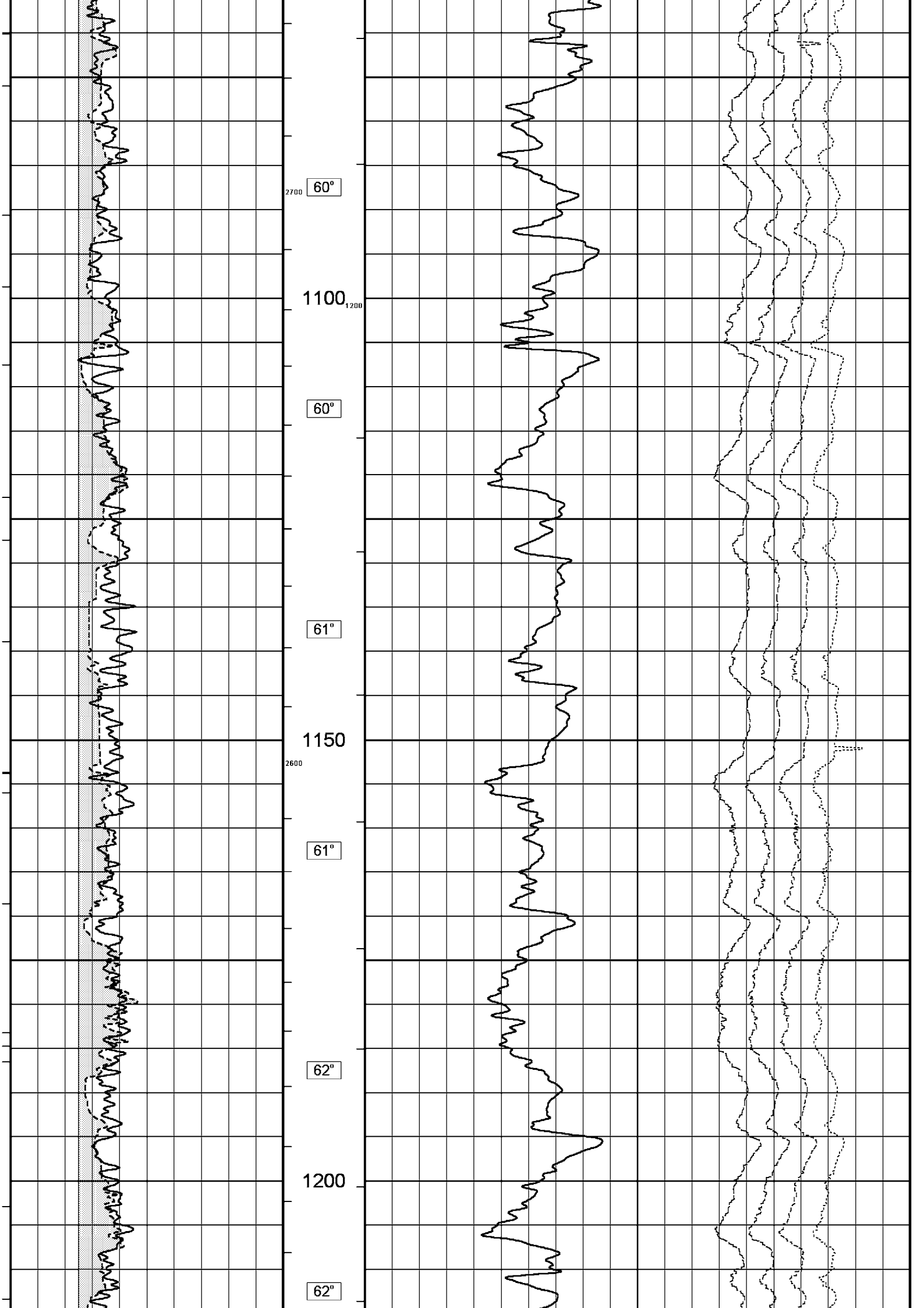
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

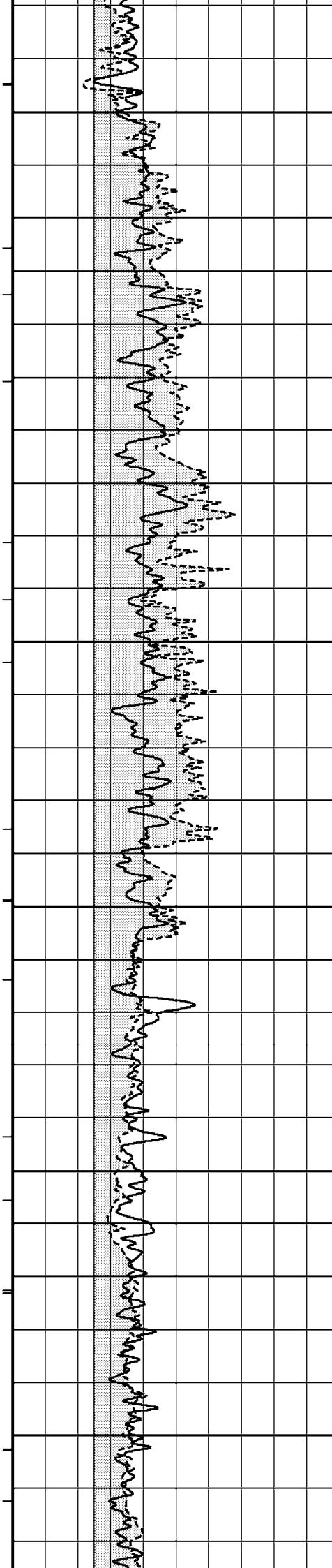
Depth Based Data - Maximum Sampling Increment 10.0cm  
Filename: C:\BMA\_A5A\FINAL DATA\BMA\_A5A\_MAIN\_LOG\_MSS.dta  
System Configuration Dates: Logged 17-JUN-2004: Processed 23-AUG-2004: Plotted 23-AUG-2004:

Plotted on 15-SEP-2005 11:30  
Recorded on 17-JUN-2005 05:35









2500  
1100  
1250  
2400  
1300  
2300  
1350

62°

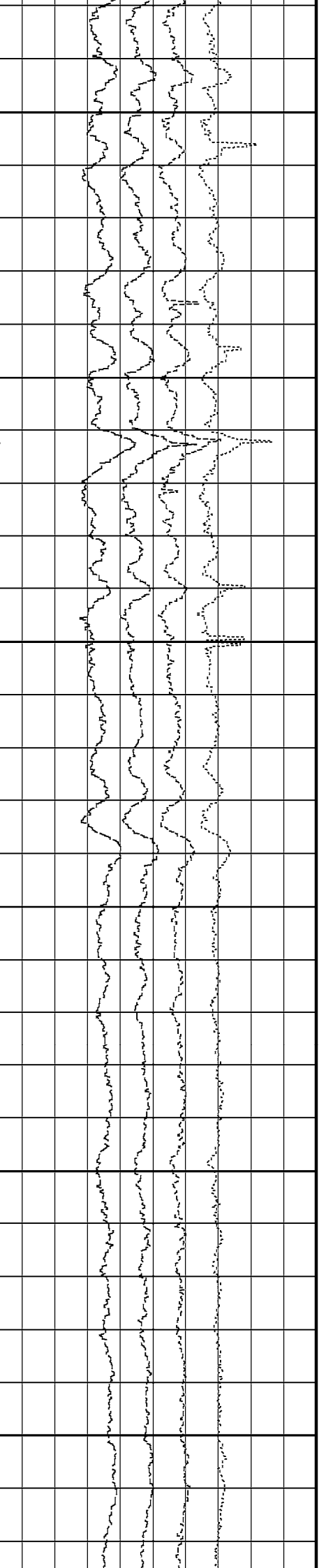
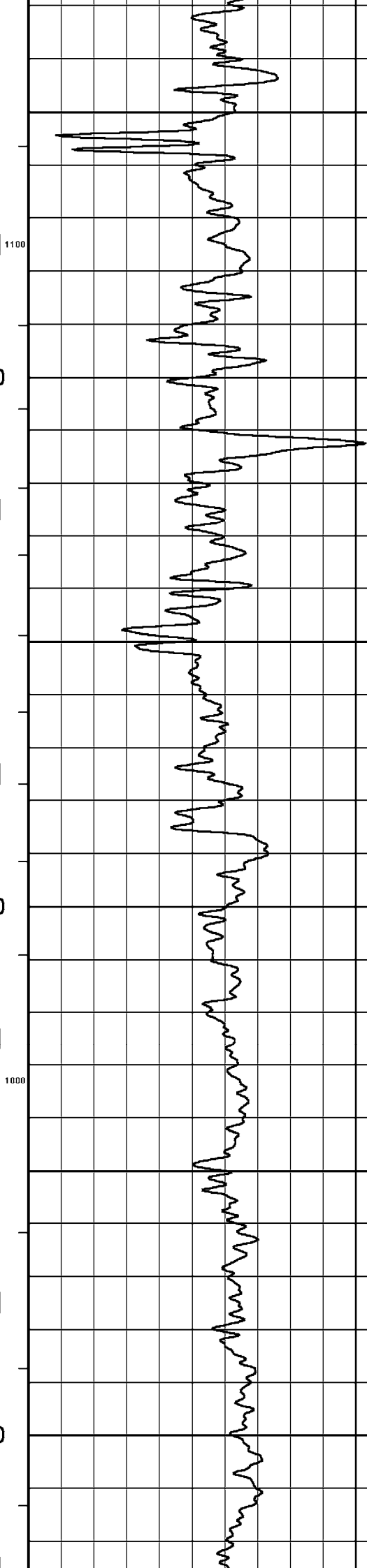
63°

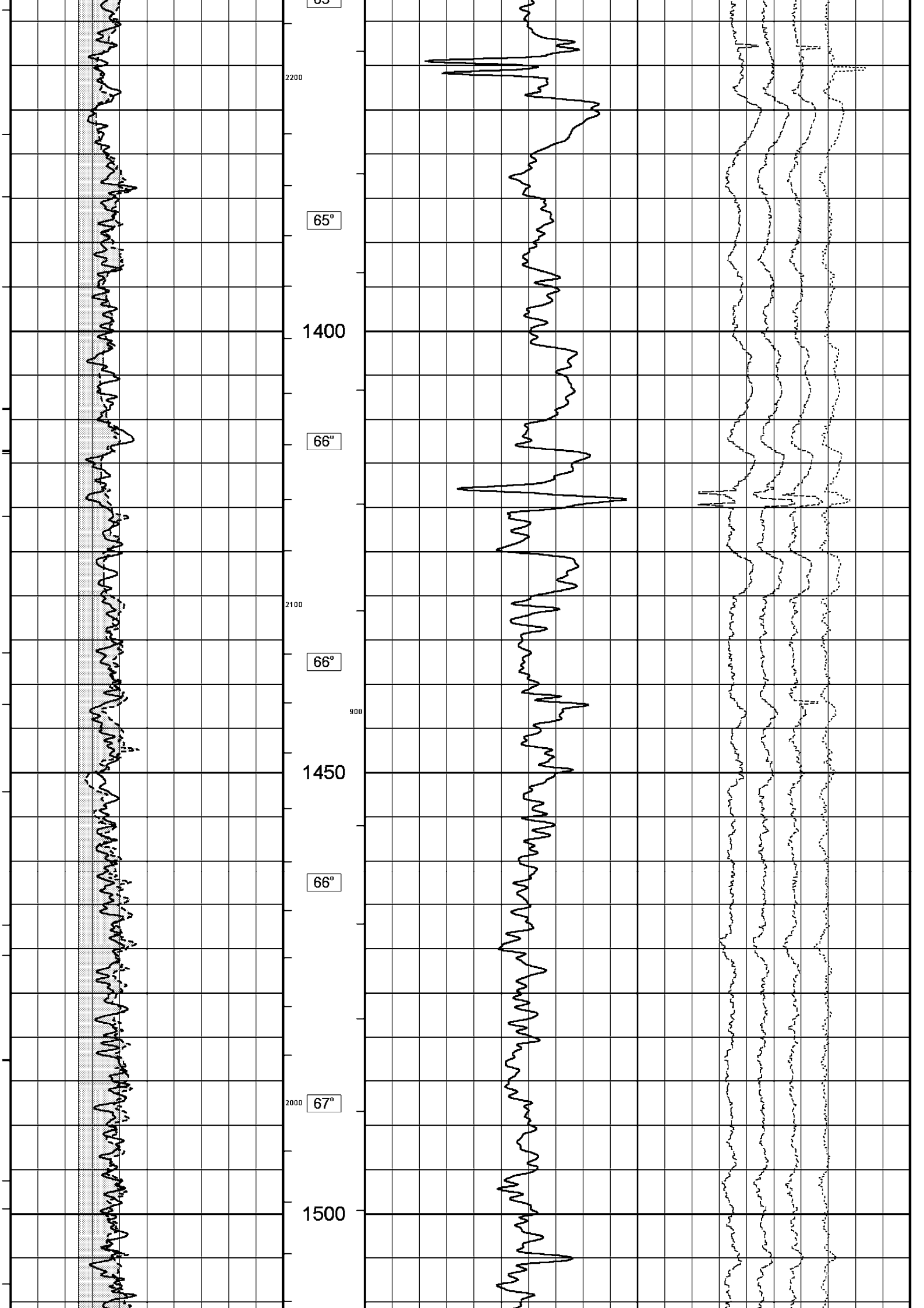
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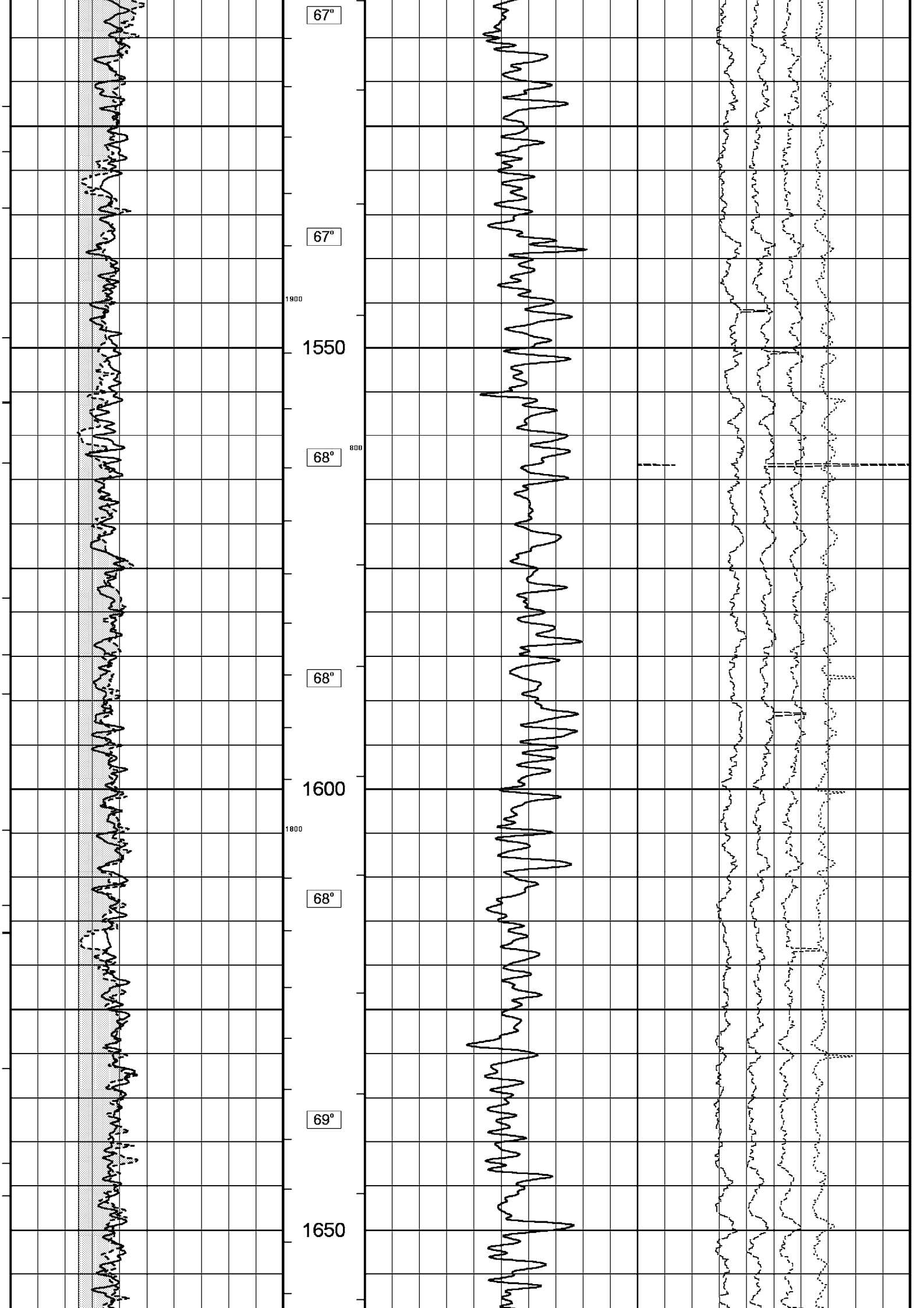
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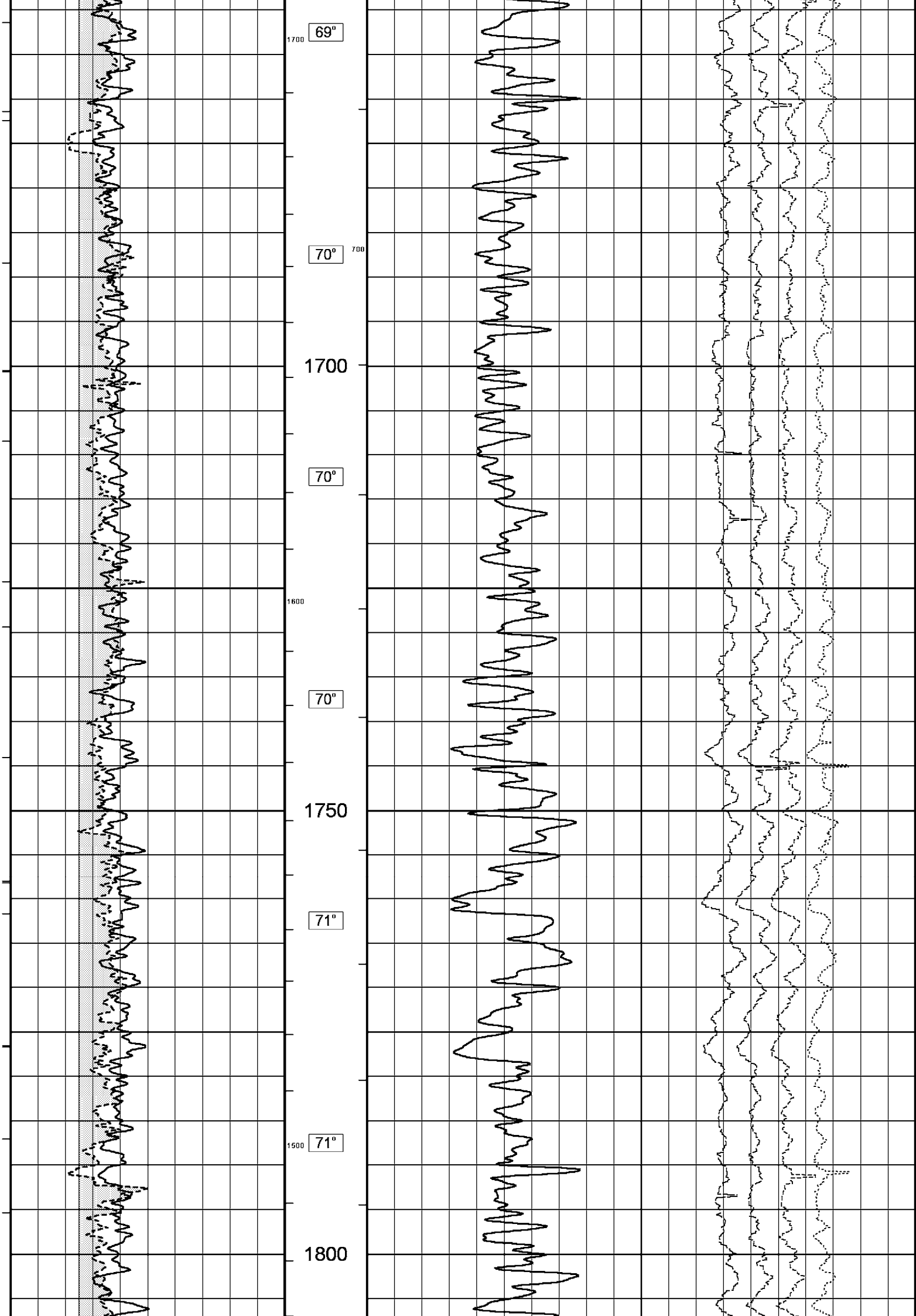
64°

65°

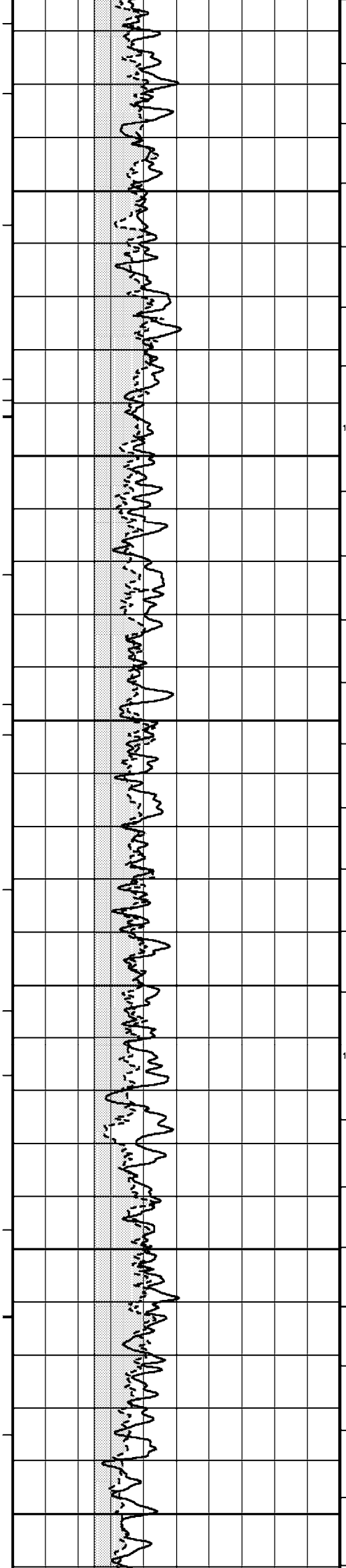












71°

600

72°

1400

1850

72°

73°

1900

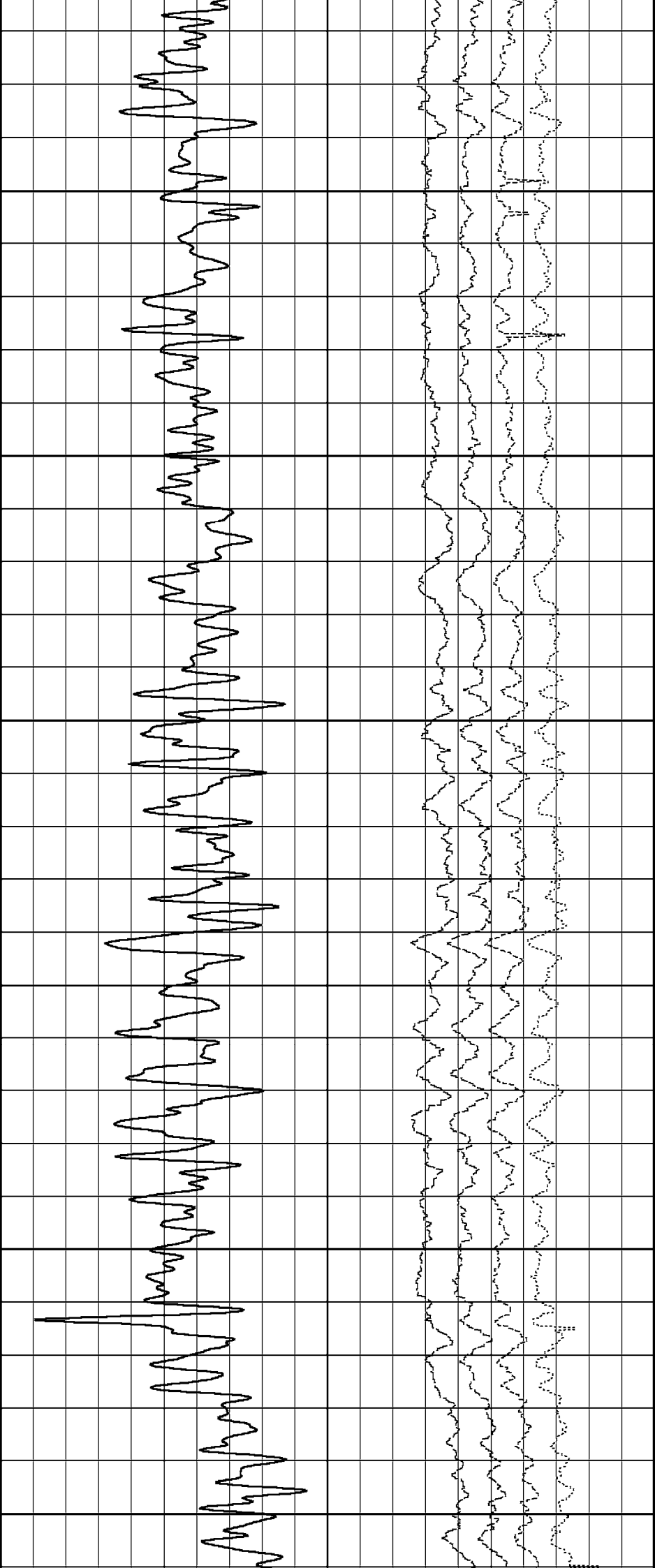
1300

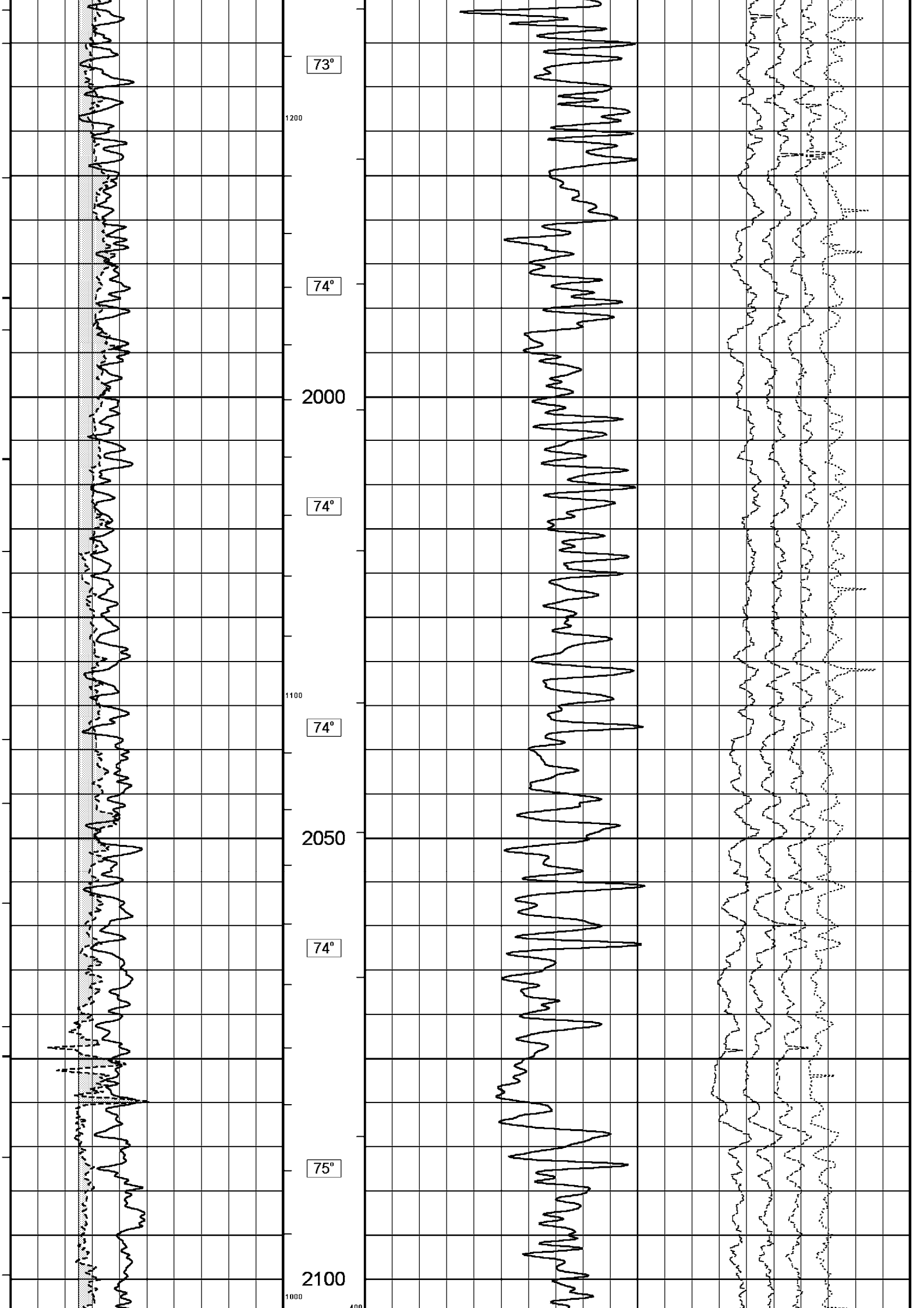
73°

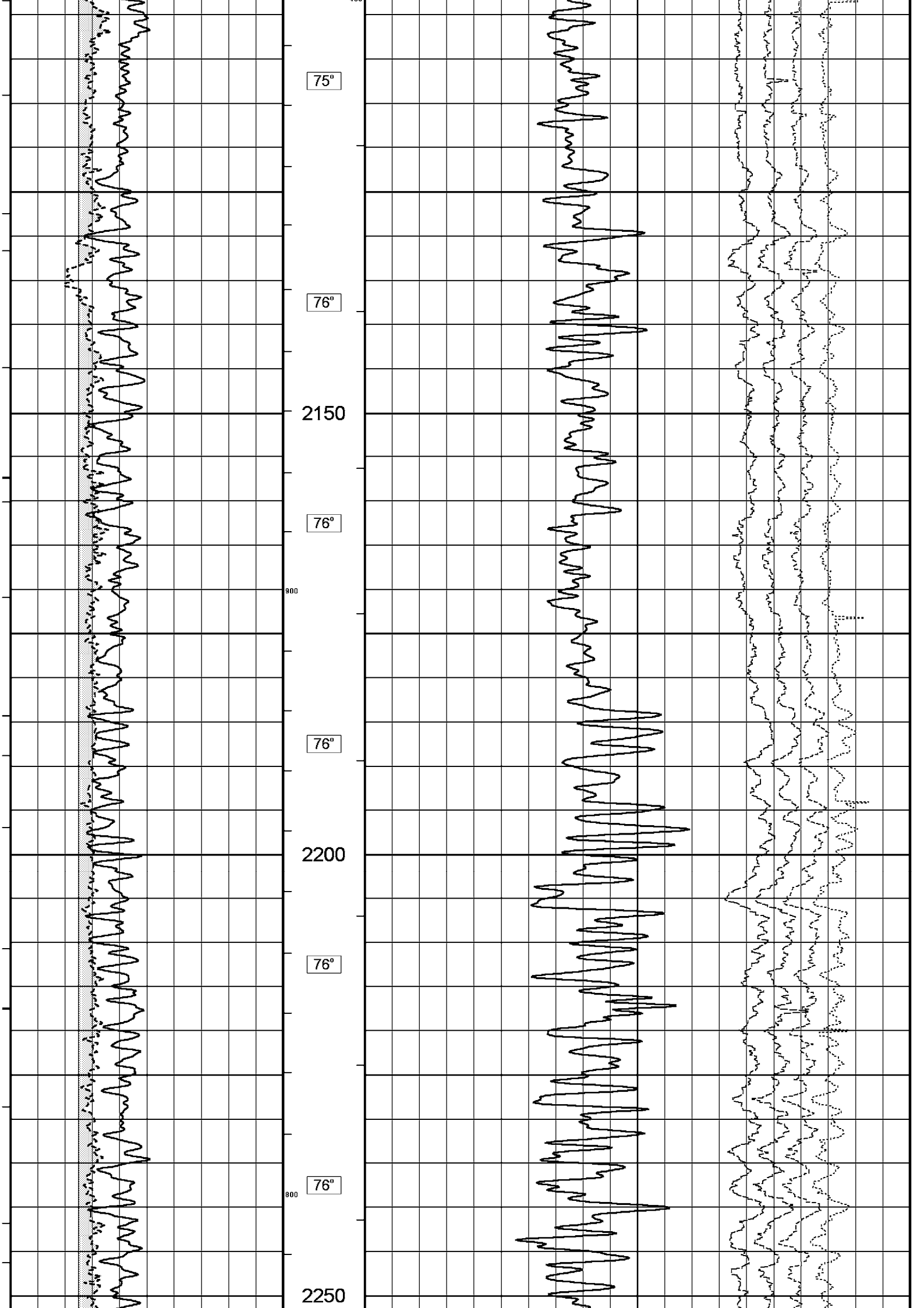
73°

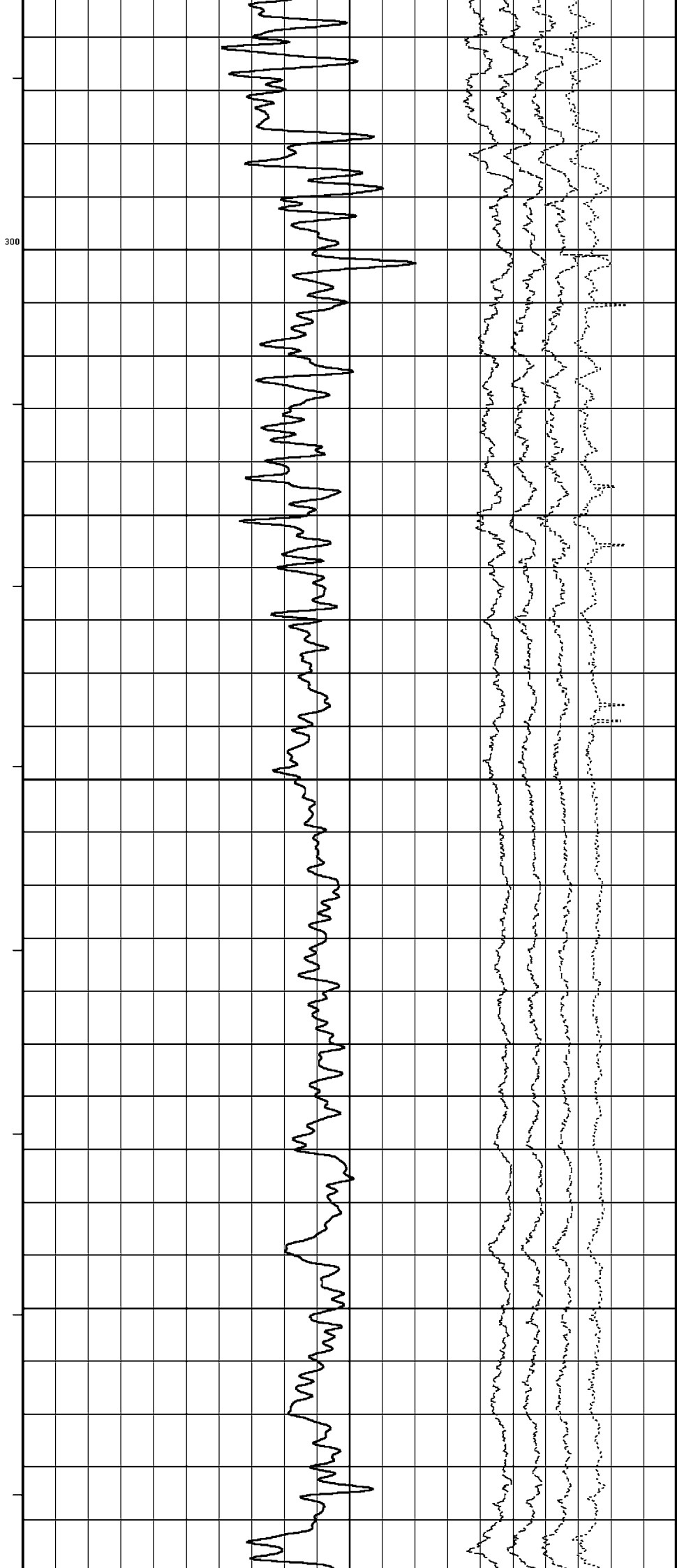
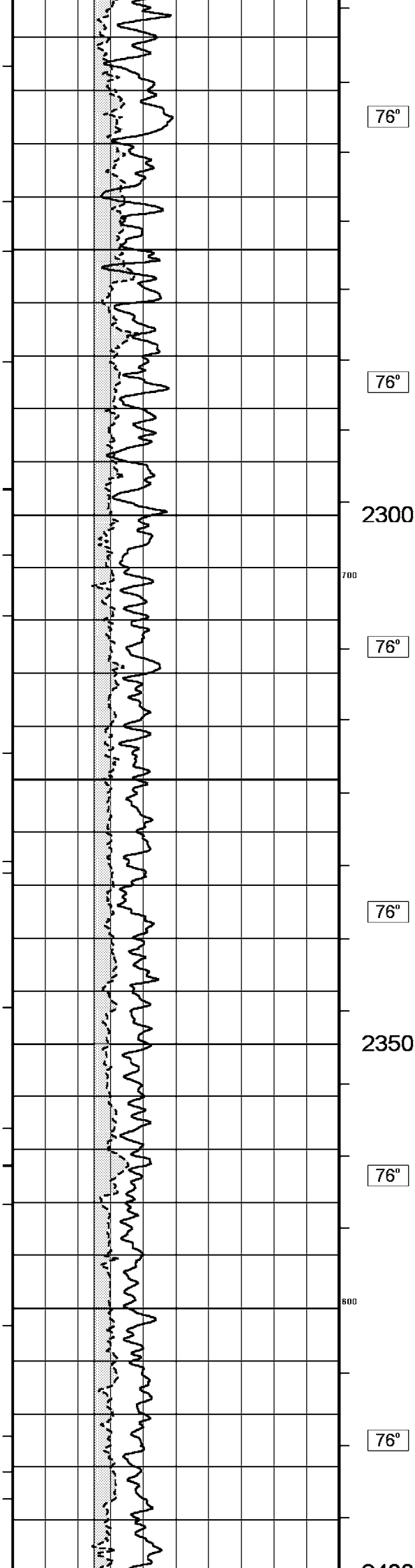
500

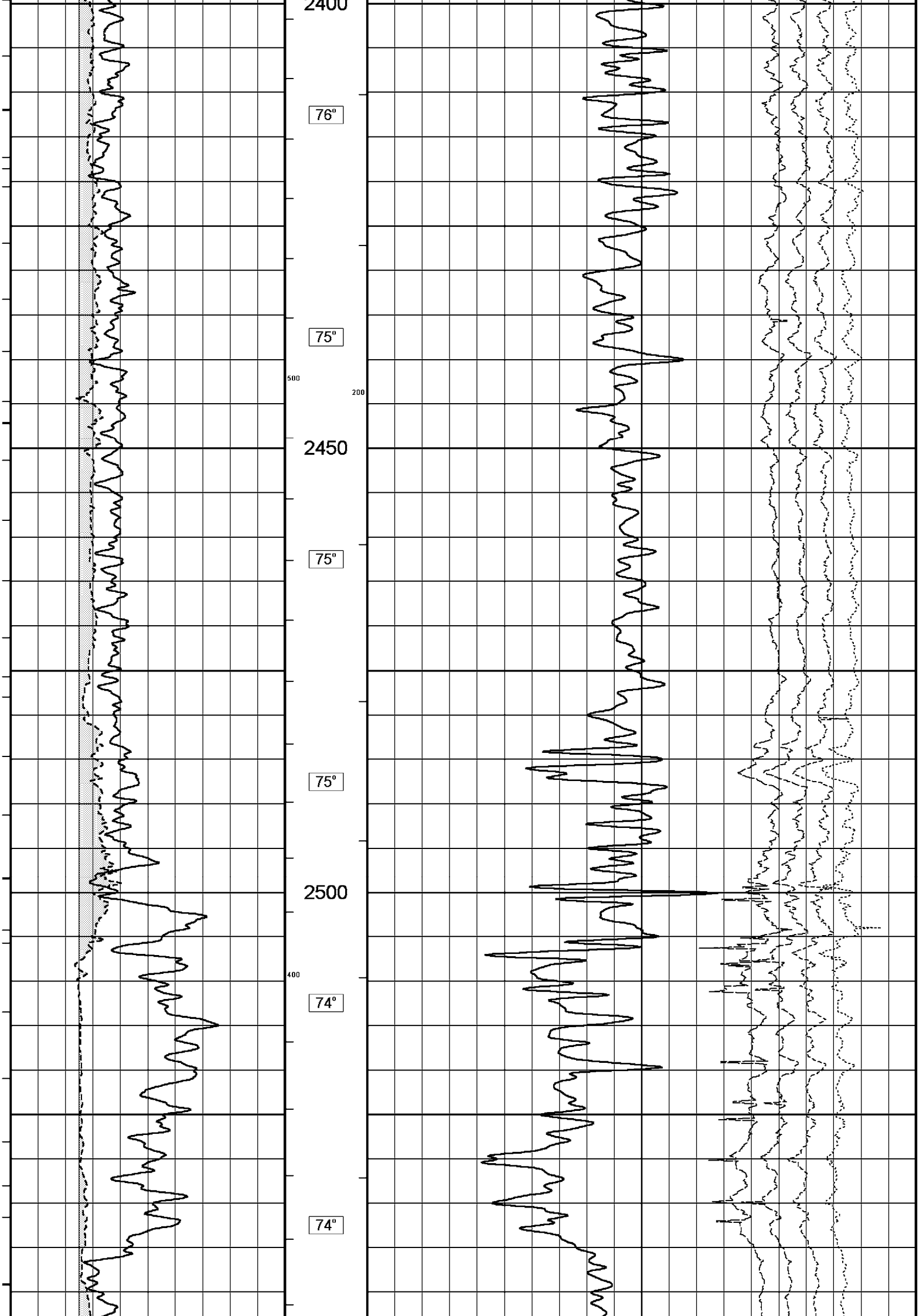
1950

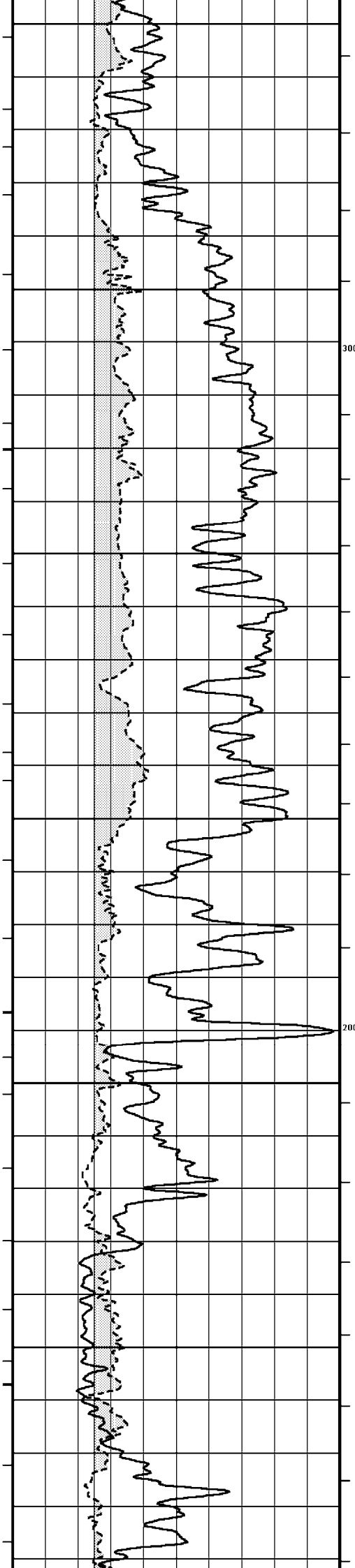












2550

73°

300

73°

2600

73°

100

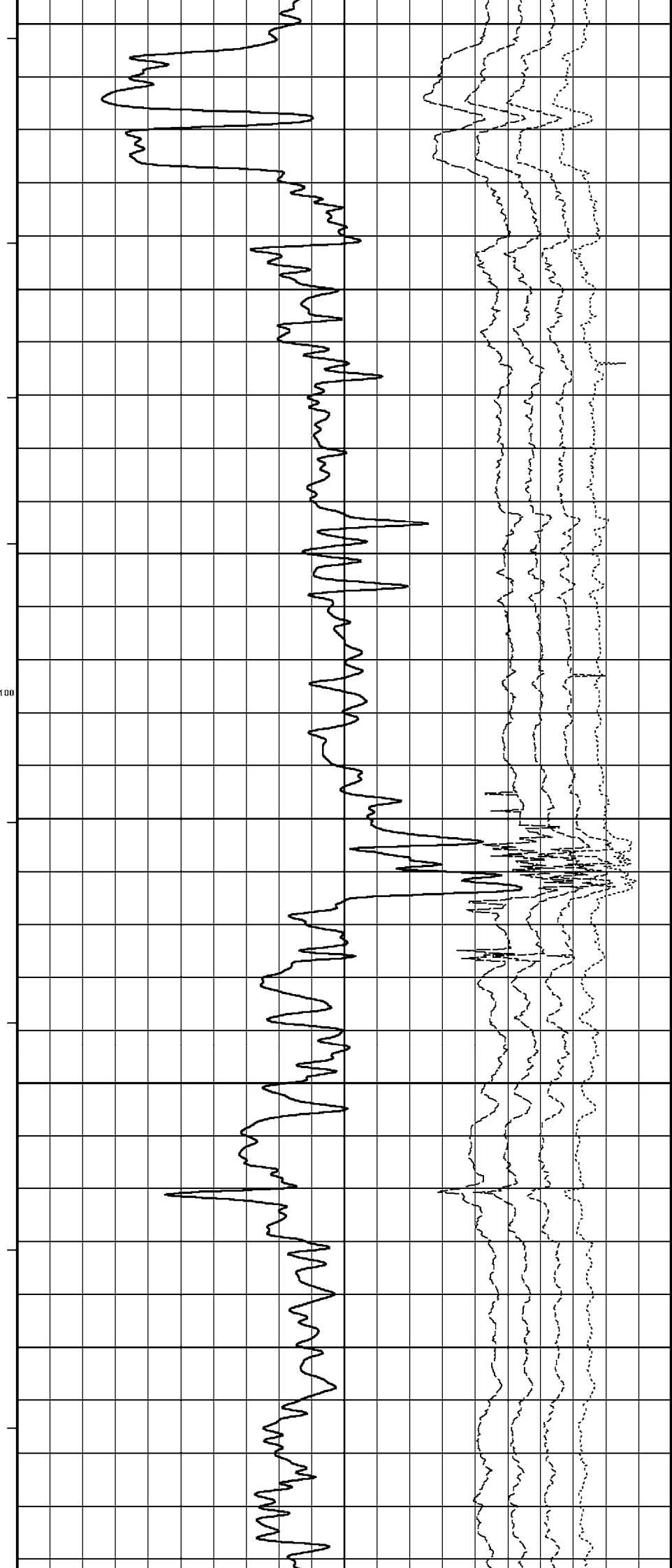
72°

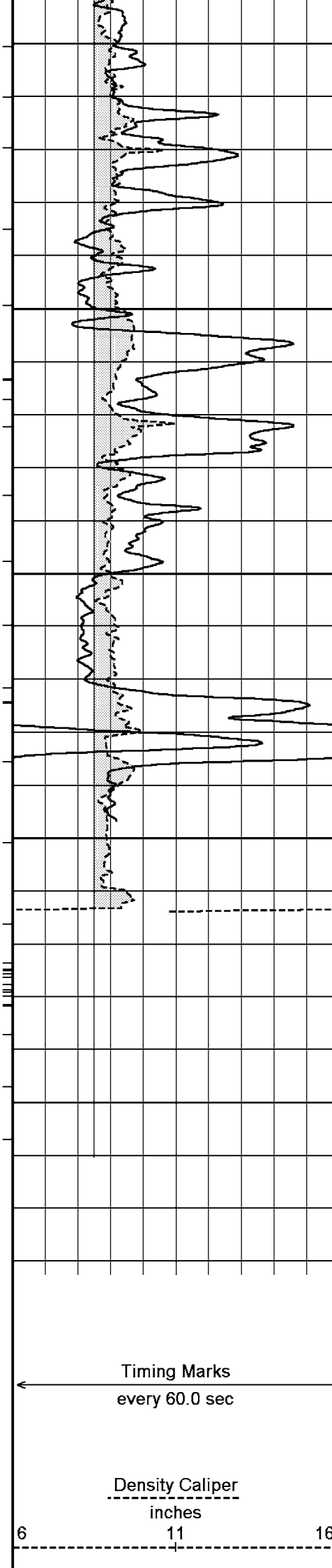
200

2650

72°

71°





2700

71"

100

80"

2750

83"

2800

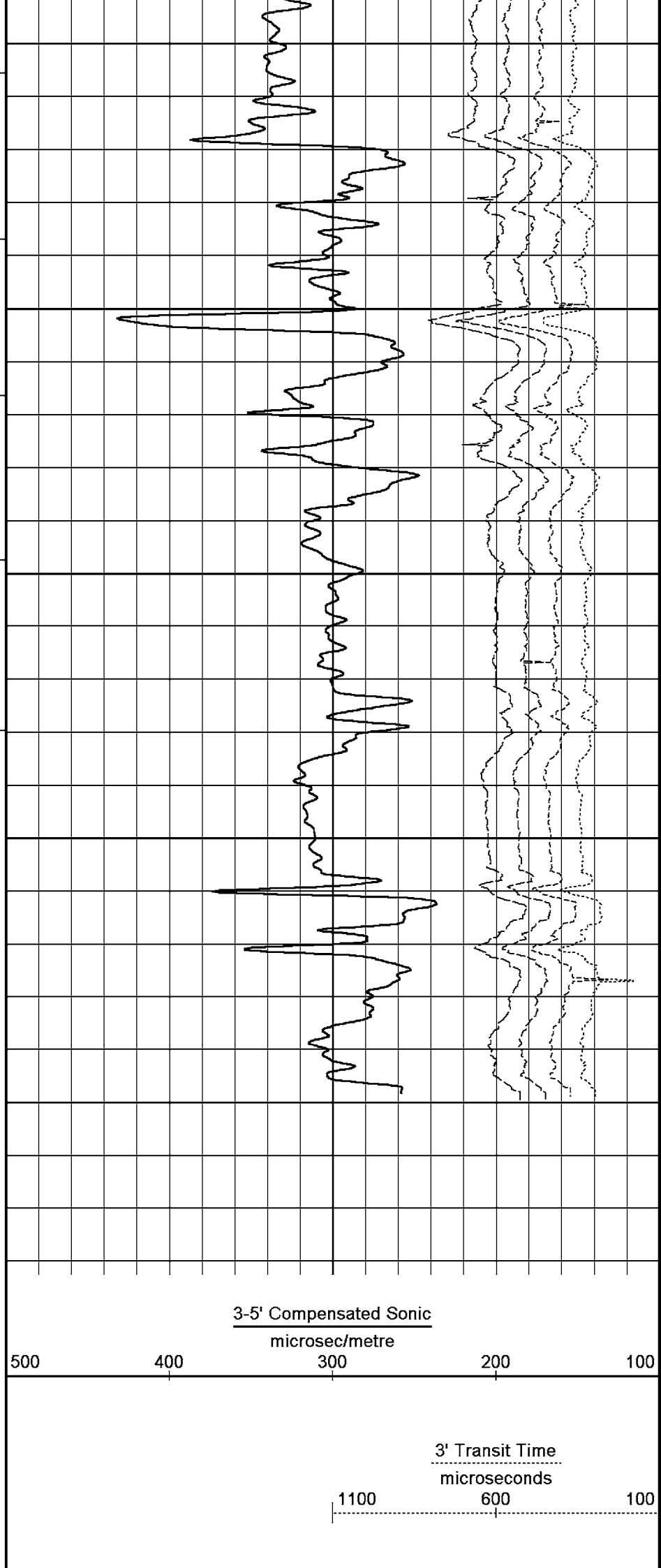
2815  
DSC  
in  
Metres

Borehole  
Temp in  
deg C

HVI

Density Caliper  
inches

6 11 16



500 400 300 200 100

1100 600 100

<u>Borehole Corrected Gamma</u>			every 10 cu ft	
0	API 100	200	Annular Integral every 10 cu ft	
200	300	400		
<u>Bit Size</u> inches				
6	11	16	Replay Scale 1:500	

4' Transit Time  
microseconds

5' Transit Time  
microseconds

6' Transit Time  
microseconds

BEFORE SURVEY CALIBRATION

## General Constants All 000

## Hole/Annular Volume and Differential Caliper Parameters

## Rwa Parameters

## High Resolution Temperature Calibration MCG 098

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

## High Resolution Temperature Constants MCG 098

## Gamma Calibration MCG 098

	Measured	Calibrated (API)
Background	12	8
Calibrator (Gross)	1353	917
Calibrator (Net)	1341	909

## Gamma Constants MCG 098

## Caliper Calibration MPD 083



## Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13504	4.01
2	21630	5.99
3	30082	7.98
4	38559	9.94
5	48000	12.01
6	N/A	N/A

## Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.00	7.99

## Sonic Constants MSS 066

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
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:\BMA\_A5A\FINAL DATA\BMA\_A5A\_MAIN\_LOG\_MSS.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 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

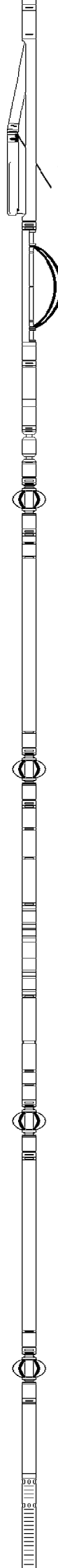
Compact Lower Guard Sub.  
MLG 7 Length: 2.44 m Weight: 55.1 lb

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

23.48 m  
23.48 m  
23.48 m  
AVOL - Annular Volume  
HVOL - Hole Volume  
CLDC - Density Caliper

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



**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

**Induction Standoff**

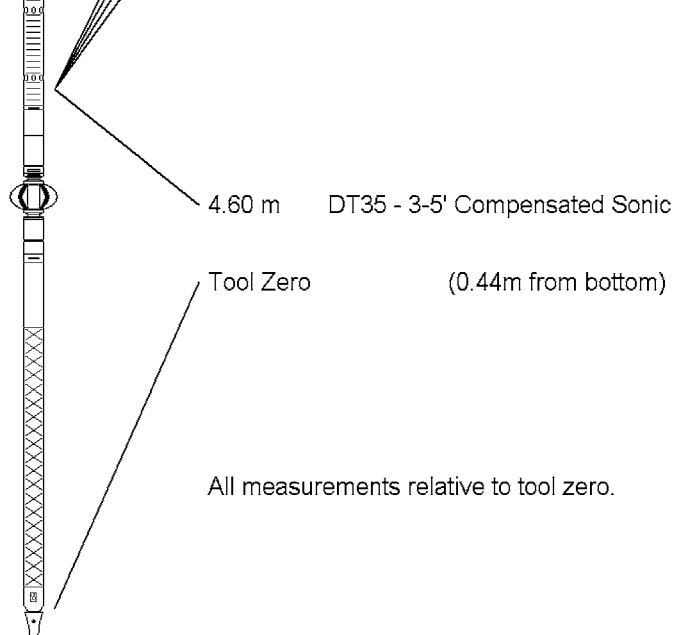
HFS 4 Length: 0.40 m

Weight: 6.6 lb

**Total**

Length: 53.36 m

Weight: 1223.6 lb



<b>COMPANY</b>	<b>ESSO AUSTRLIA PTY LTD</b>
<b>WELL</b>	<b>BREAM A5A</b>
<b>FIELD</b>	<b>BREAM</b>
<b>PROVINCE/COUNTY</b>	<b>BASS STRAIT</b>
<b>COUNTRY/STATE</b>	<b>AUSTRALIA</b>

Elevation Kelly Bushing	metres	First Reading	2798.80	metres	
Elevation Drill Floor	32.82	metres	Depth Driller	2810.00	metres
Elevation Ground Level	-59.40	metres	Depth Logger	2803.90	metres



**COMPENSATED SONIC**  
**1:500 MD**