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MATURITY ANALYSIS ON COAL SAMPLES FROM CORES FROM WELL 34/10-2 , NORWAY

by

G. Konert and J.M.A. Buiskool Toxopeus

code : 774.103

Investigation
9.12.523

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RIJSWIJK, THE NETHERLANDS
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CONTENTS

I INTRODUCTION

Maturity measurements on coal samples from cores from well 34/10-2 have been carried out.

The carbonisation of strata can be expressed in terms of percentage reflectance of vitrinite. It is determined by measurement of the reflectance of polished telocollinite particles. Often telocollinite is not present and telinite or desmocollinite was used to estimate the degree of carbonisation.

II RESULTS AND DISCUSSION.

The results are listed in Table I.
For those samples , for which it was possible to carry out a reasonable number of measurements , reflectance histograms are shown in Figure 1 a-c.

Samples 3031.3 and 3032.3 m show a transition between telinite and telocollinite with a VR between 0.67 - 0.74 (see Figs. 1 a,b).
These samples contain abundant desmocollinite and abundant telinite/telocollinite.
Sample 3351.0 m contains abundant telinite with a VR-value of $\pm$ 0.70.
Sample 3375.2 m contains desmocollinite particles and could not be measured.
Sample 3386.4 m contains few telocollinite (VR = 0.79 , see Fig. 1c) and abundant desmocollinite.
The variation of the VR with depth is given in Figure 2 .

VITRINITE REFLECTANCE

COUNTRY	: NORWAY	MEAN	: 0.74
WELL/OUTCROP	: 34/10-2	DEVIATION	: 0.03
DEPTH/SAMPLE NR.	: 3031 M	MODE	: 0.74
SAMPLE TYPE	: CORE SAMPLE	MEASUREMENTS	: 50

TELINITE MEASURED ANALIST: HDY D.D. 22-JUN-82

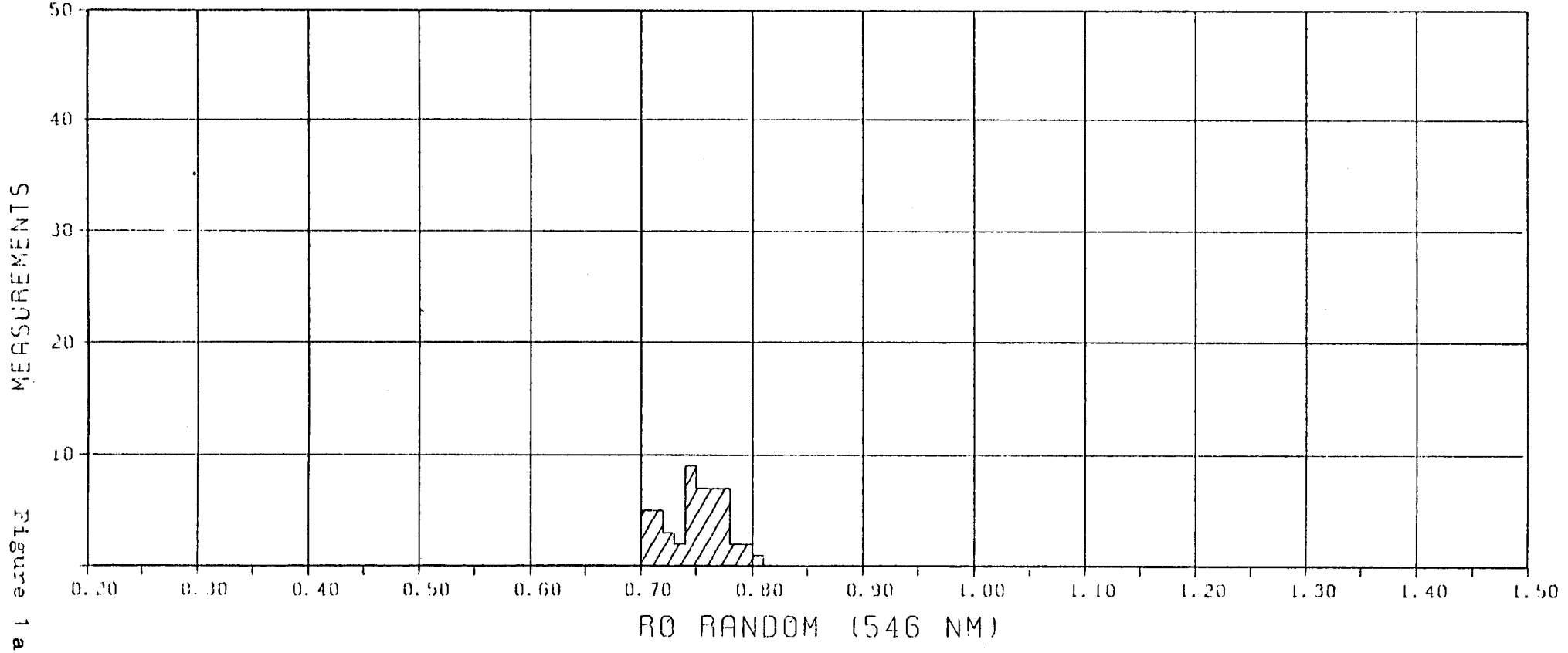


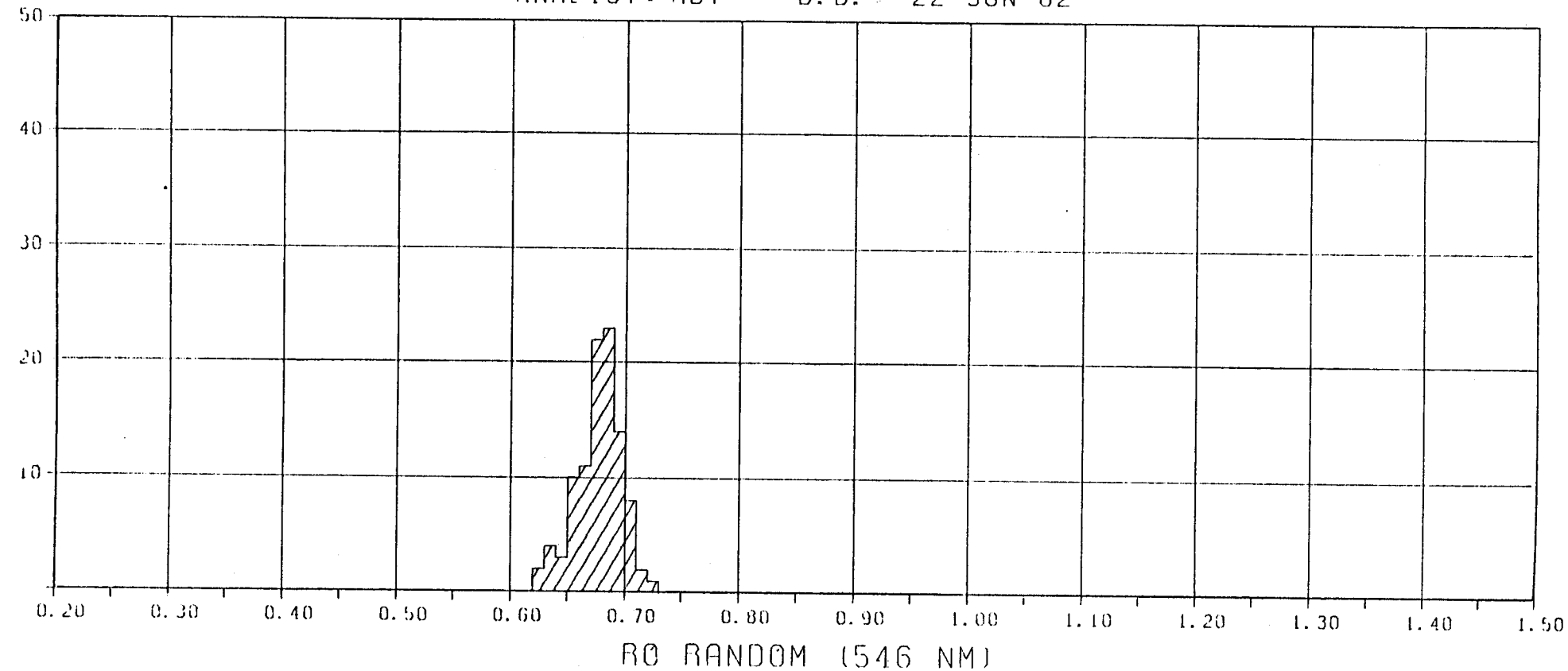
Figure 1a

VITRINITE REFLECTANCE HISTOGRAM

VITRINITE REFLECTANCE

COUNTRY	: NORWAY	MEAN	: 0.67
WELL/OUTCROP	: 34/10-2	DEVIATION	: 0.02
DEPTH/SAMPLE NR.	: 3032 M	MODE	: 0.68
SAMPLE TYPE	: CORE SAMPLE	MEASUREMENTS	: 100

ANALIST: HDY D.D. 22-JUN-82



VITRINITE REFLECTANCE HISTOGRAM

Figure 1b

VITRINITE REFLECTANCE

COUNTRY : NORWAY
WELL/OUTCROP : 34/10-2
DEPTH/SAMPLE NR. : 3386 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.79
DEVIATION : 0.03
MODE : MULTI
MEASUREMENTS : 100

FEW LAYERS OF DESMOCOLLINITE MEASURED

ANALIST: HDY D.D. 22-JUN-82

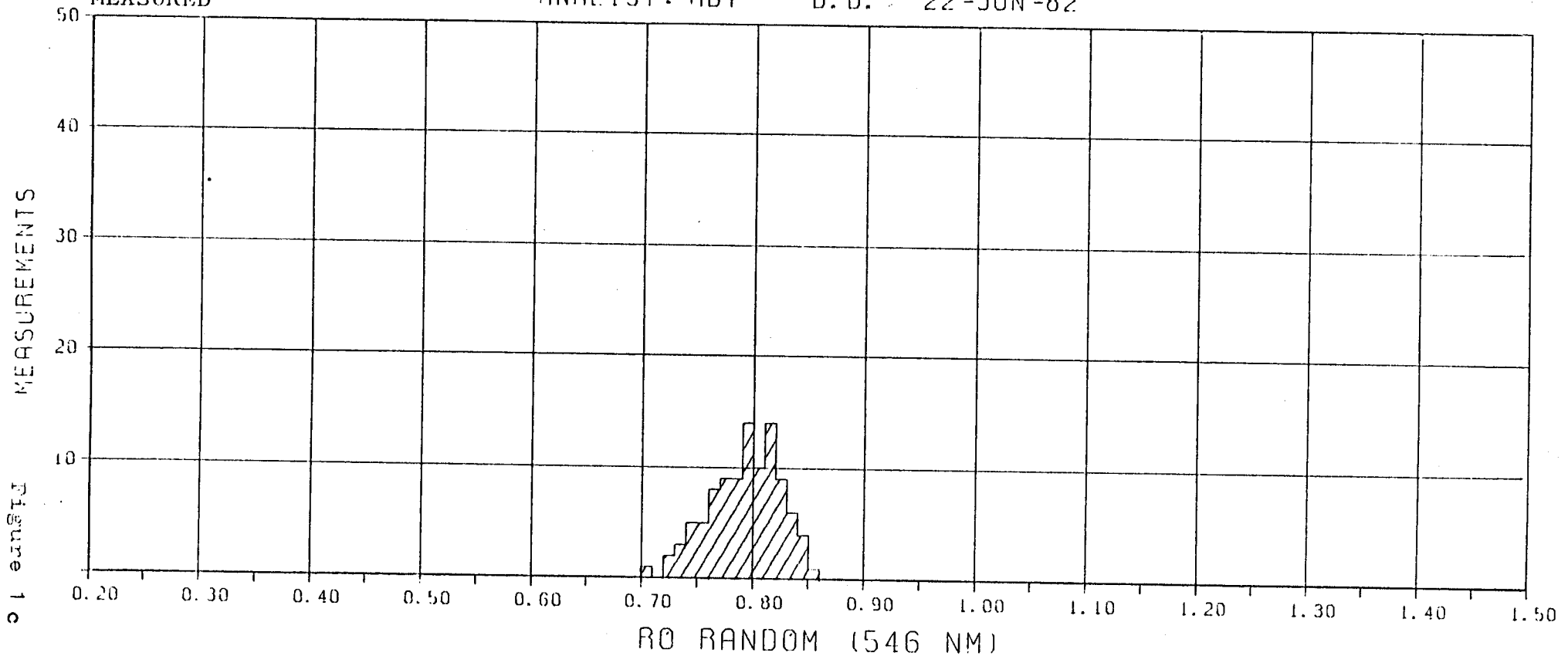
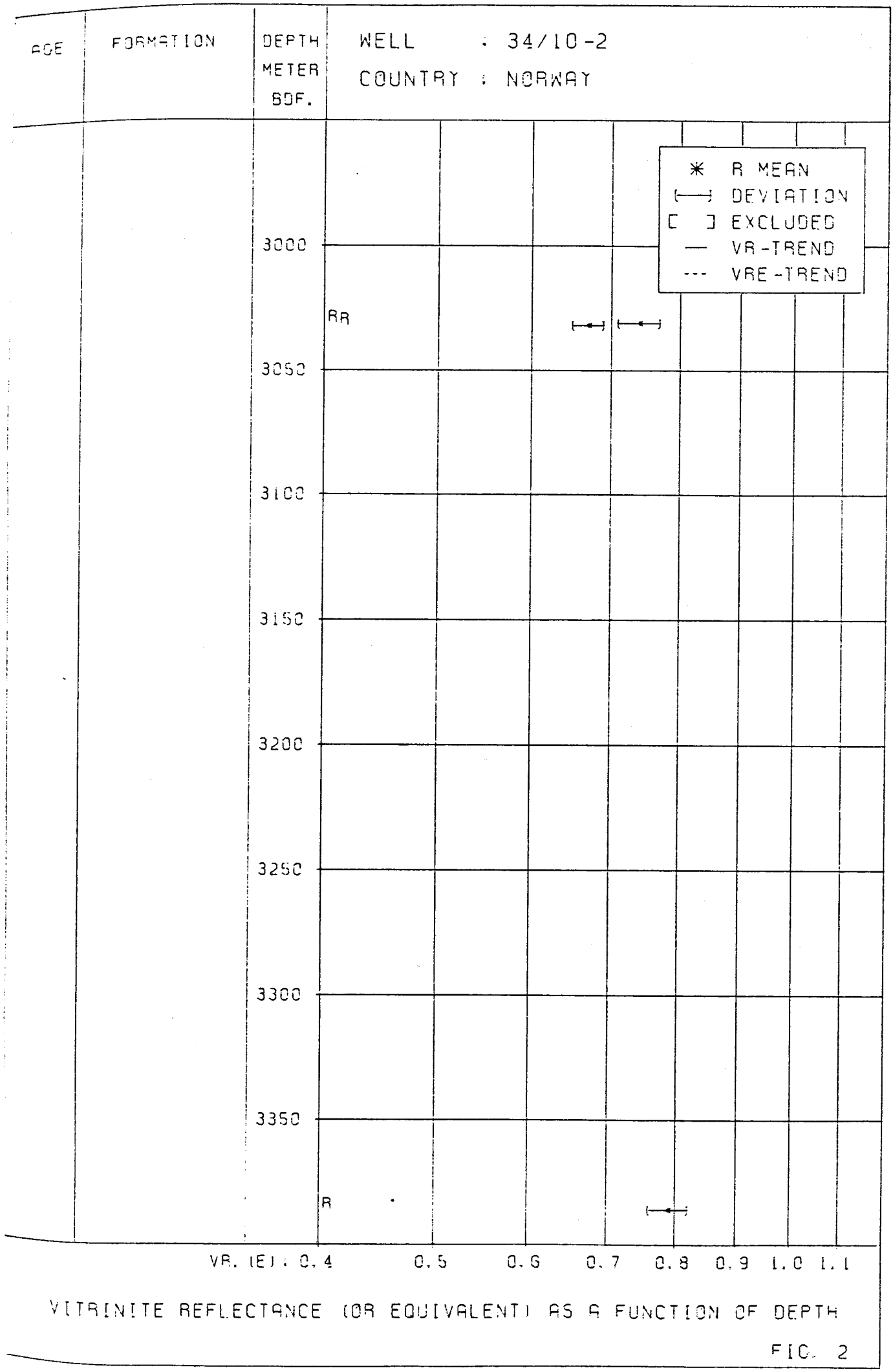


Figure 1c

VITRINITE REFLECTANCE HISTOGRAM



VITRINITE REFLECTANCE (OR EQUIVALENT) AS A FUNCTION OF DEPTH

FIG. 2

DATA ON VITRINITE

sample	3031.3 m :	Few telocollinite
		Abundant telinite
		Abundant desmocollinite
		Mean reflectance telocollinite/
		telinite VR 0.74 , see Fig.1 a
	3032.3 m :	Common telinite
		Abundant telocollinite
		Abundant desmocollinite
		Mean reflectance telocollinite/
		telinite VR 0.67 , see Fig.1 b
		Weak fluorescent telocollinite
	3351.0 m :	Fluorescent telinite
		Abundant telinite
		VR telinite $\pm$ 0.70
	3375.2 m :	Common desmocollinite
		Fluorescent desmocollinite
	3386.4 m :	Few telocollinite
		Abundant desmocollinite
		Mean reflectance
		of telocollinite VR 0.79 , see Fig. 1c

TABLE I

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