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MATURITY ANALYSIS ON COAL SAMPLES FROM
CORES FROM WELL 35/8-1 , NORWAY

by

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code : 774.103

Investigation

9.12.523

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I INTRODUCTION

Maturity measurements on coal samples from cores from well 35/8-1 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 3360.0 , 3589.6 , 3606.5 and 3638.0 m contain telinite grading into telocollinite.

The VR of these samples is measured and ranges from ± 0.70 (3360.0 m) up to 0.88 (3638.0 m) , (see Fig. 1 a,b,c).

Sample 3669.3 m contains abundant telinite with a VR of $\pm 0.85 - 0.90$.

The variation of the VR as a function of depth is illustrated in Fig. 2.

VITRINITE REFLECTANCE

COUNTRY : NORWAY
WELL/OUTCROP : 35/8-1
DEPTH/SAMPLE NR. : 3589 M
SAMPLE TYPE : CORE SAMPLE

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

ANALYST : HDY D.O. : 22-JUN-82

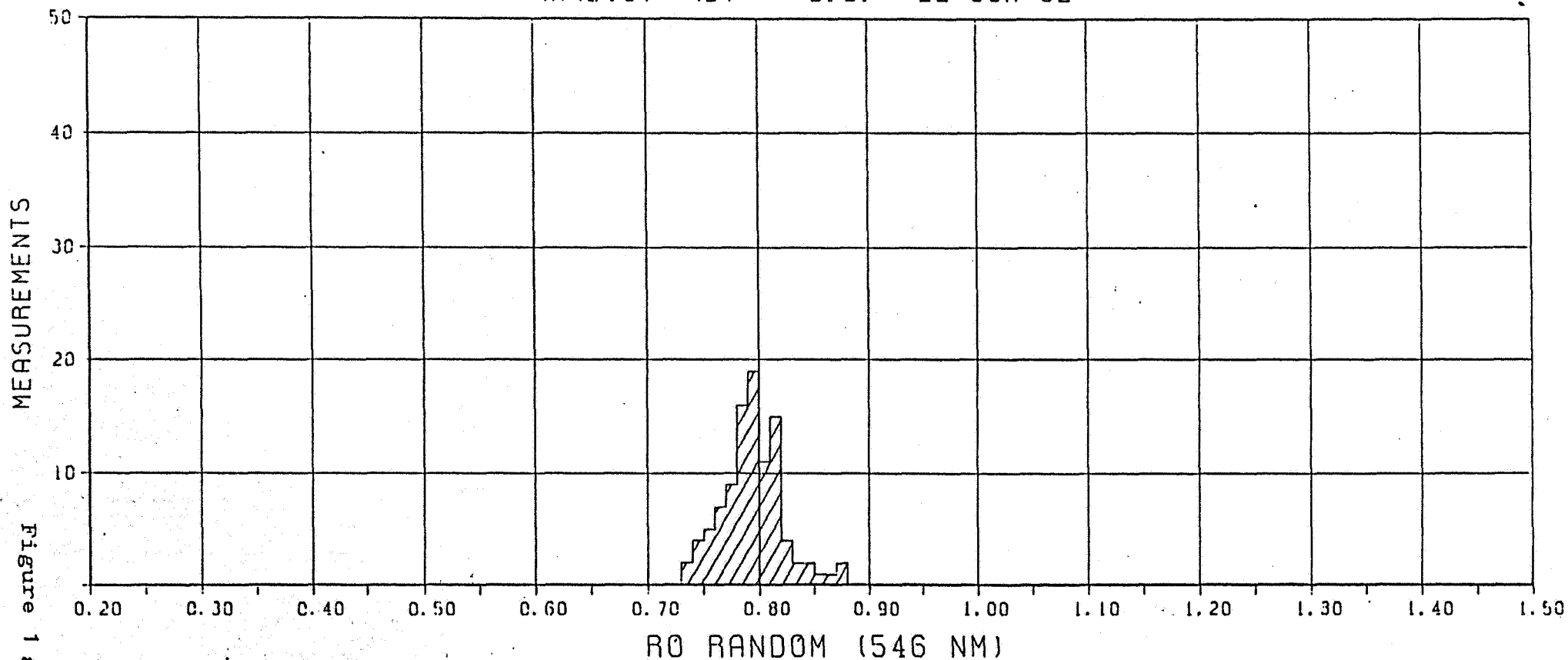


Figure 1 a

VITRINITE REFLECTANCE HISTOGRAM

VITRINITE REFLECTANCE

COUNTRY : NORWAY

WELL/OUTCROP : 35/8-1

DEPTH/SAMPLE NR. : 3606 M

SAMPLE TYPE : CORE SAMPLE

TELINITE / TELOCOLLINITE
MEASURED

MEAN : 0.82

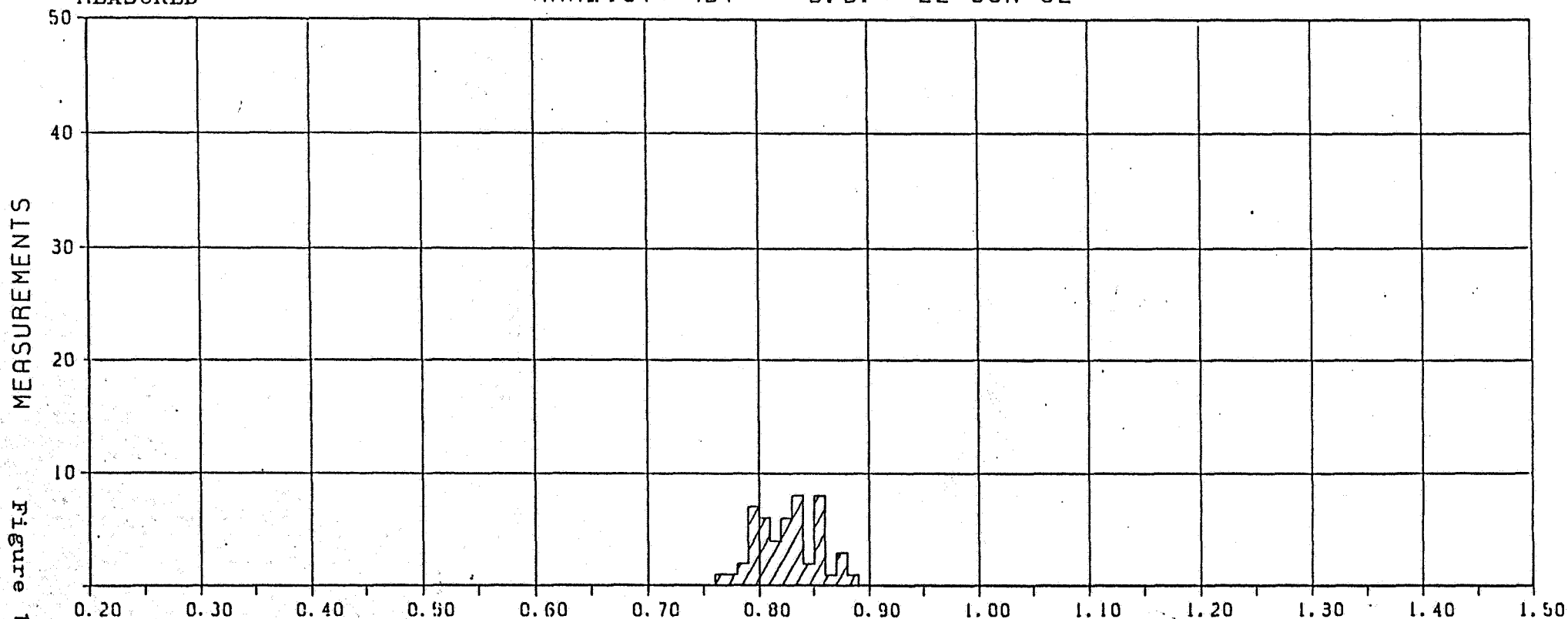
DEVIATION : 0.03

MODE : MULTI

MEASUREMENTS : 50

ANALYST : HDY

D. D. : 22-JUN-82



R0 RANDOM (546 NM)

VITRINITE REFLECTANCE HISTOGRAM

VITRINITE REFLECTANCE

COUNTRY : NORWAY

WELL/OUTCROP : 35/8-1

DEPTH/SAMPLE NR. : 3638 M

SAMPLE TYPE : CORE SAMPLE

TELINITE / TELOCOLLINITE
MEASURED

MEAN : 0.88

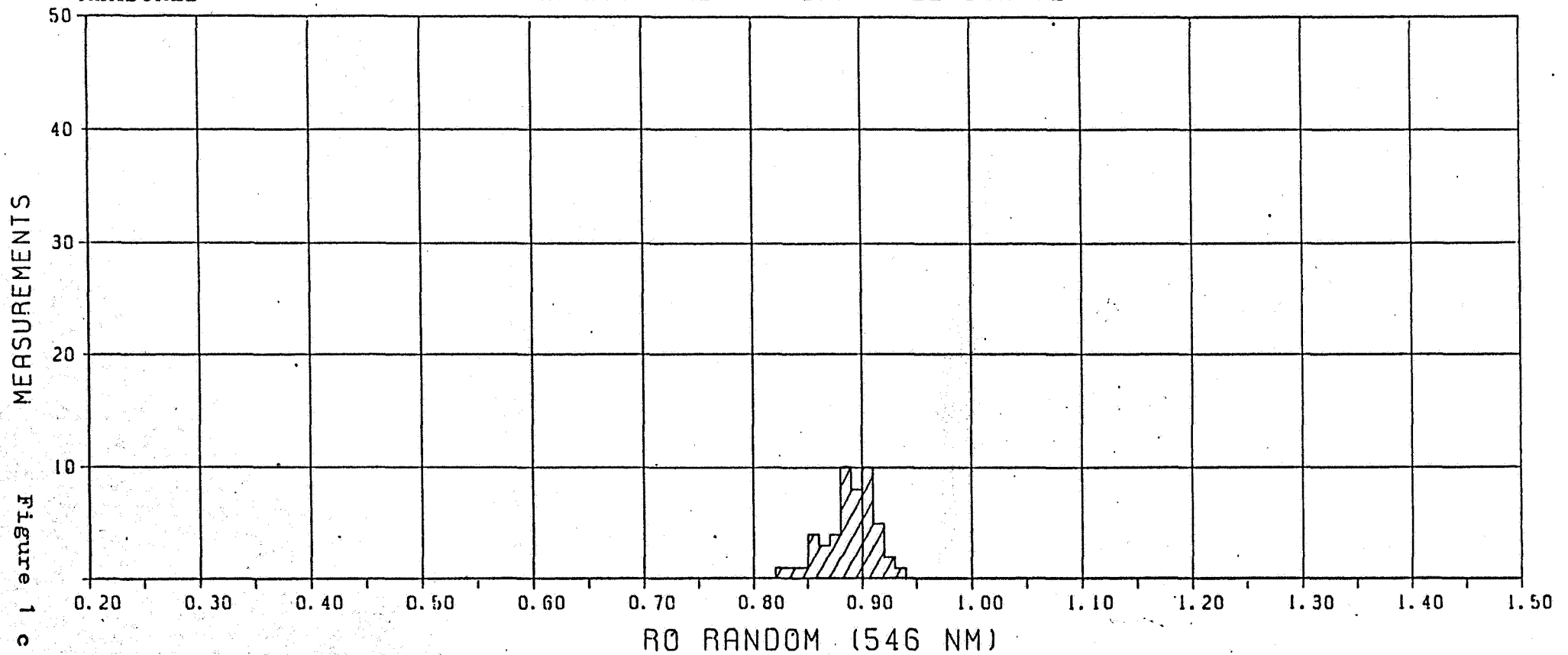
DEVIATION : 0.02

MODE : MULTI

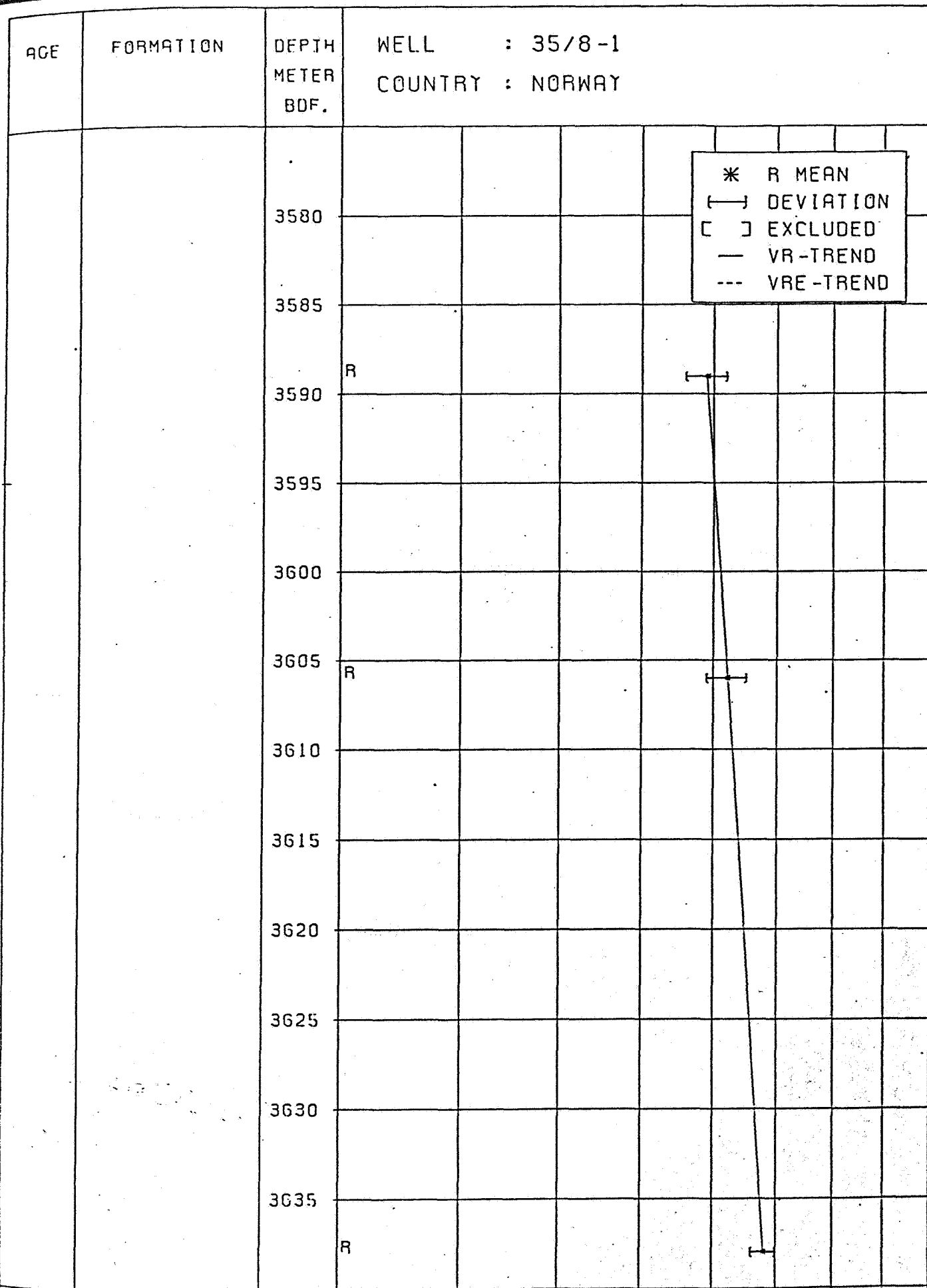
MEASUREMENTS: 50

ANALYST: HDY

D. D. : 22-JUN-82



VITRINITE REFLECTANCE HISTOGRAM



VR. (E) : 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1

VITRINITE REFLECTANCE (OR EQUIVALENT) AS A FUNCTION OF DEPTH

DATA ON VITRINITE

sample 3360.0 m : Fluorescent telinite
Telinite grades into telocollinite
VR telinite \pm 0.70

3589.6 m : Common telocollinite
Abundant telinite
Few desmocolinite
Fluorescent telinite/telocollinite
Telinite grades into telocollinite
Mean reflectance telocollinite/
telinite VR 0.79 , see Fig.1 a

3606.5 m : Common telocollinite
Common desmocolinite
Abundant telinite
Fluorescent telinite/telocollinite
Telinite grades into telocollinite
Mean reflectance telocollinite/
telinite VR 0.82 , see Fig. 1 b

3638.0 m : Abundant telinite
Common telocollinite
Common desmocolinite
Fluorescent telinite/telocollinite
Telinite grades into telocollinite
Mean reflectance telocollinite/
telinite V^R 0.88 , see Fig. 1c

3669.3 m : Fluorescent telinite
VR telinite \pm 0.85 - 0.90