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MATURITY MEASUREMENTS ON COAL SAMPLES FROM
CORES FROM WELL 6407/2-1

NORWAY

by

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code: 774.10300

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Investigation

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OLJEDIREKTORATET

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1.0 INTRODUCTION

Maturity measurements have been carried out on seventeen coal samples from cores from well 6407/2-1

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 (vitrinite-1) particles. Often telocollinite is not present and telinite or desmocollinite (vitrinite-2) have to be used to estimate the degree of carbonisation.

Vitrinite reflectance measurements carried out on desmocollinite generally give too low DOM values.

Vitrinite reflectance measurements carried out on telinite may give either slightly too low or slightly too high DOM values.

Therefore, the results obtained from telinite and desmocollinite should be regarded as an estimation only.

2.0 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 Figs.1-13.

TABLE I
VITRINITE DATA

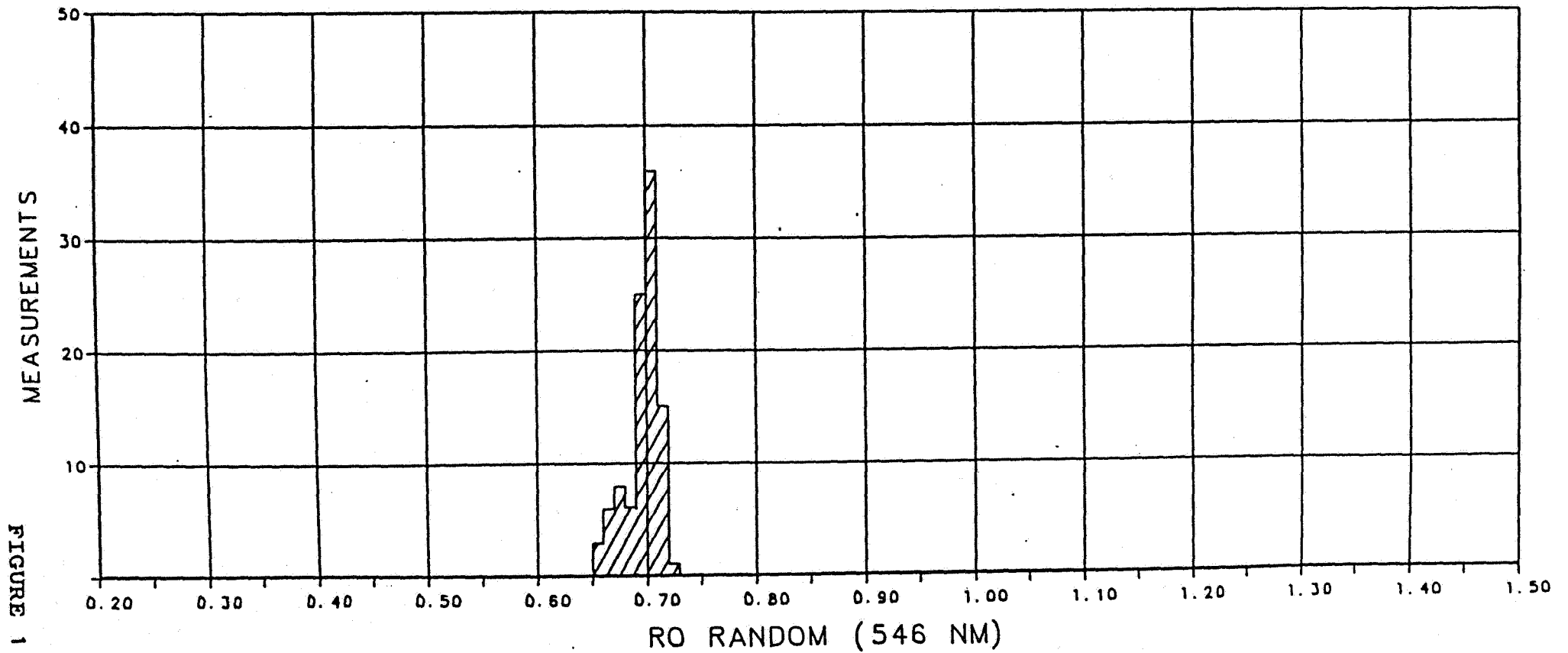
WELL	DEPTH in m	VR (DOM)	TYPE OF VITRINITE MEASURED
6407/2-1	3481.4	0.69 (62)	telocollinite
"	3484.3	0.73 (63)	telocollinite
"	3489.2	0.64 (61)	slightly oxidised vitrinite-2
"	3490.3	0.70 (62)	telocollinite
"	3490.6	0.66 (61)	vitrinite-2
"	3493.9	0.74 (63)	slightly oxidised vitrinite-2
"	3494.2	0.69 (62)	telocollinite
"	3496.8	0.62 (60)	vitrinite-2

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3481 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.69
DEVIATION : 0.02
MODE : 0.70
MEASUREMENTS: 100

ANALYST: BTX D.D.: 5-JUL-84



SAMPLE 3481.4 M; TELOCOLLINITE

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3484 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.73
DEVIATION : 0.02
MODE : MULTI
MEASUREMENTS: 100

ANALYST: BTX D.D.: 5-JUL-84

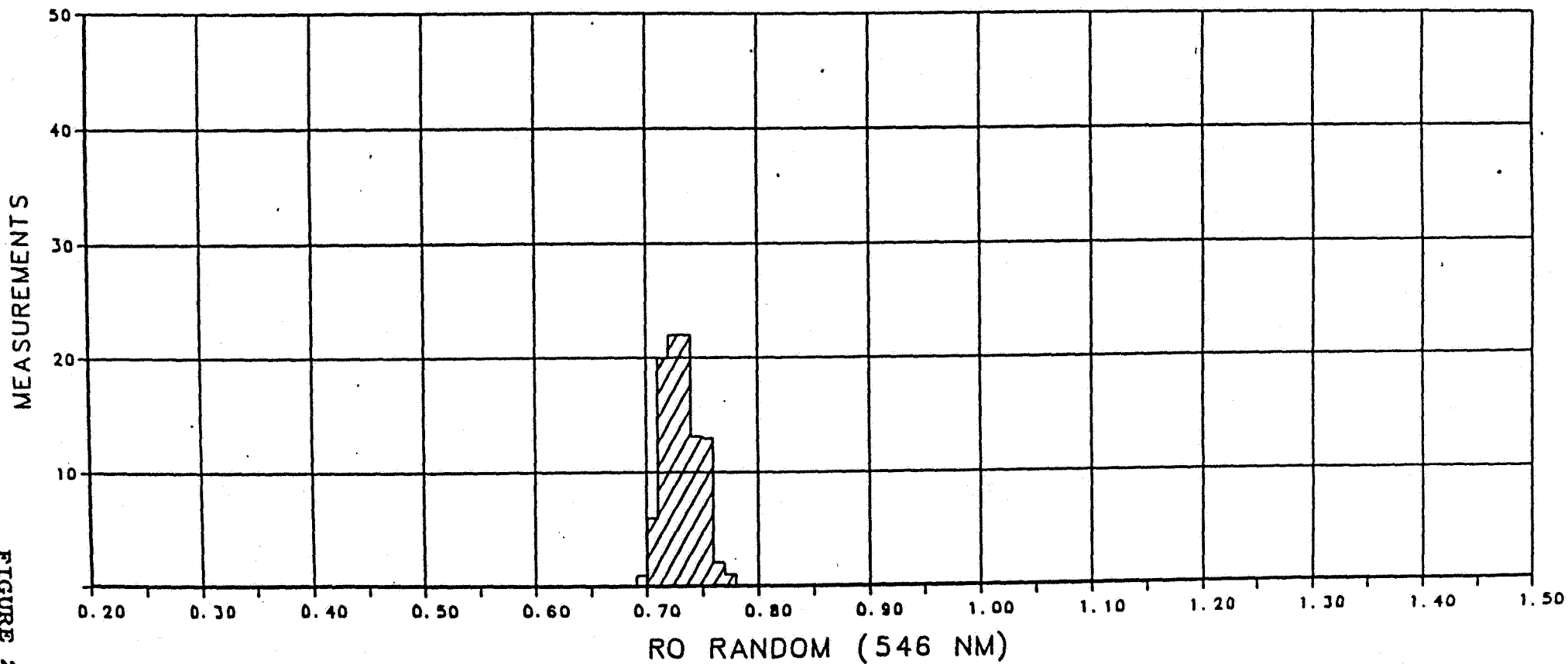


FIGURE 2

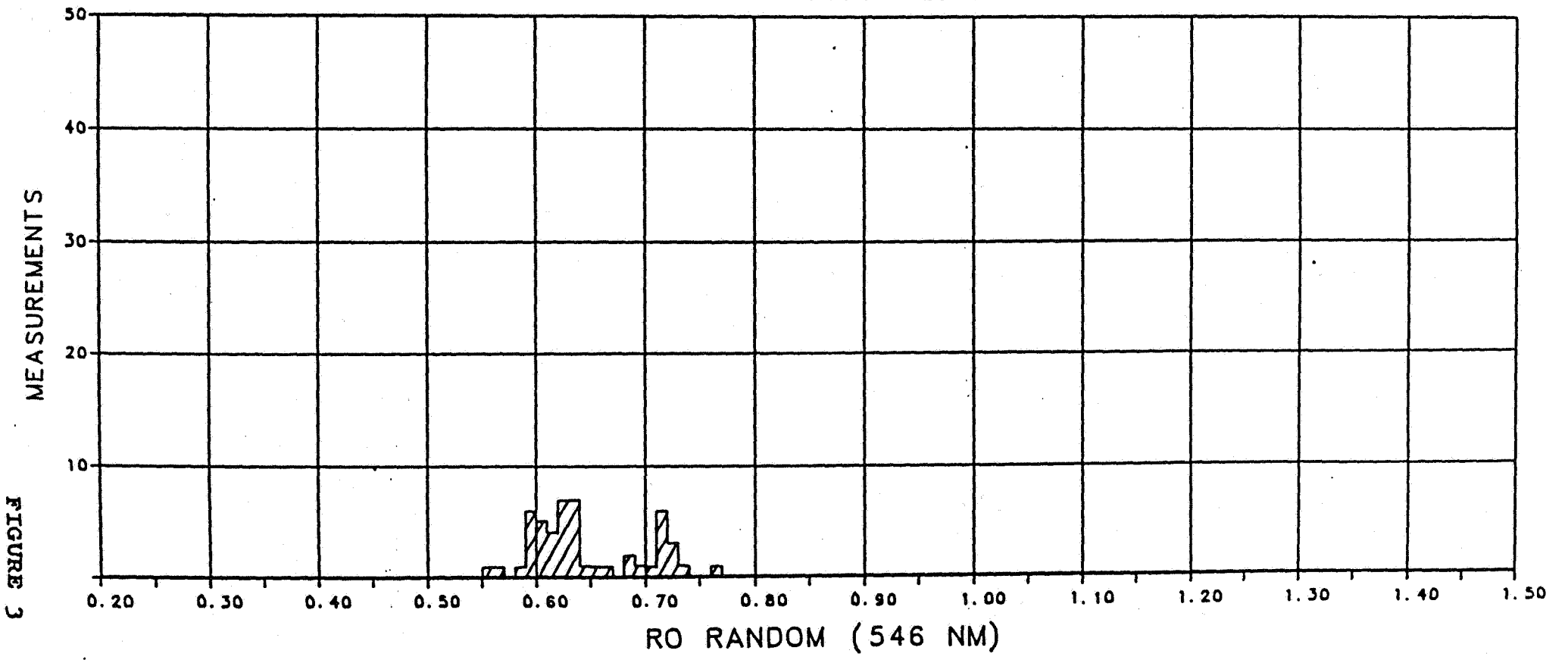
SAMPLE 3484.3 M; TELOCOLLINITE

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3489 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.64
DEVIATION : 0.05
MODE : MULTI
MEASUREMENTS: 50

ANALYST: BTX D.D.: 29-JUN-84



SAMPLE 3489.2 M; SLIGHTLY OXIDISED VITRINITE-2

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3490 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.70
DEVIATION : 0:02
MODE : 0.70
MEASUREMENTS: 50

ANALYST: BTX¹ D.D.: 29-JUN-84

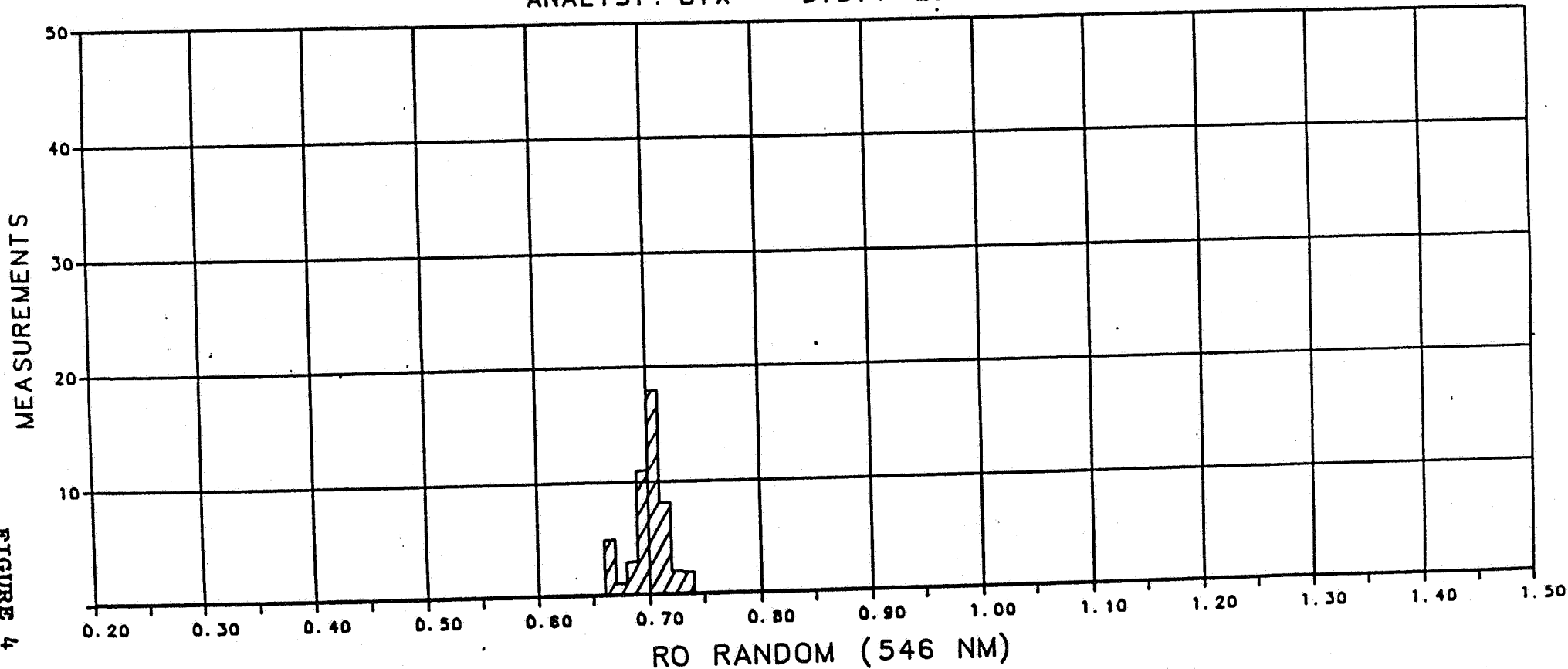


FIGURE 4

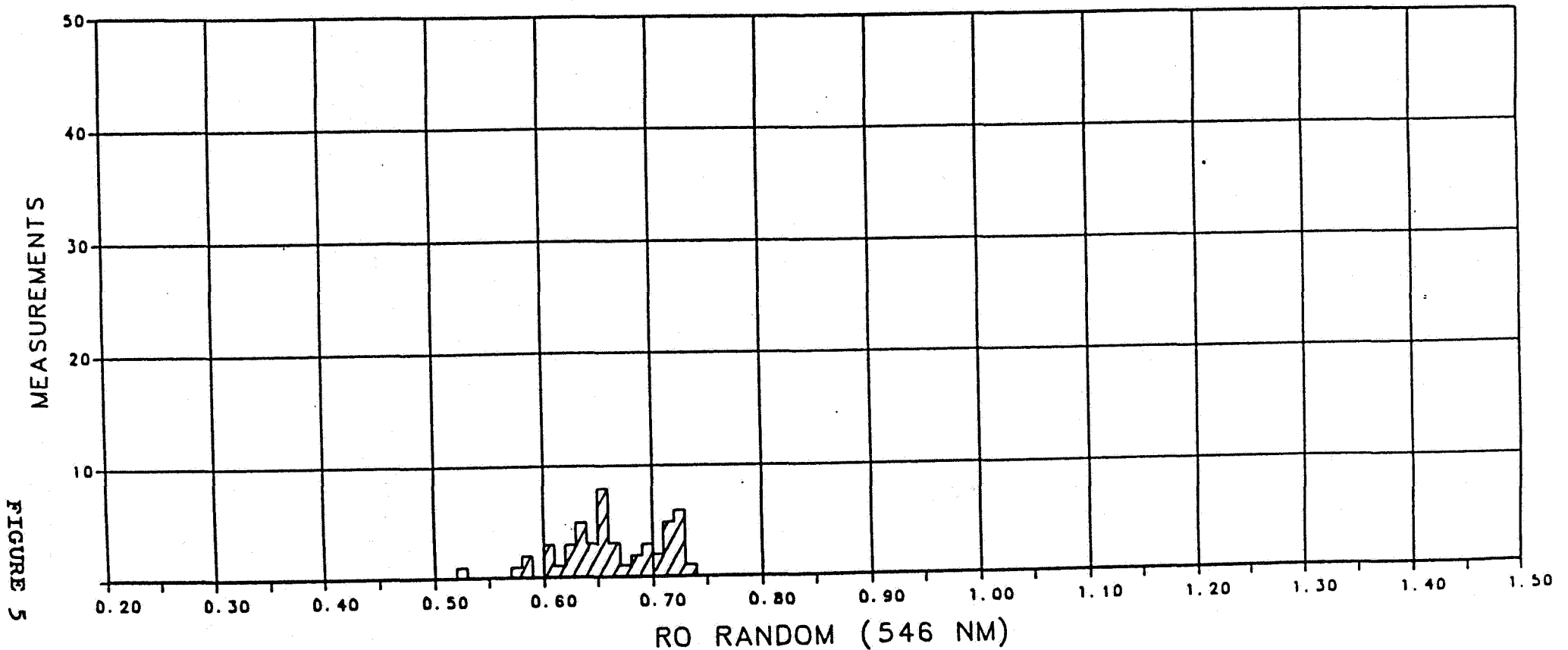
SAMPLE 3490.3 M; TELOCOLLINITE

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3490 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.66
DEVIATION : 0.05
MODE : 0.65
MEASUREMENTS: 50

ANALYST: BTX D.D.: 29-JUN-84



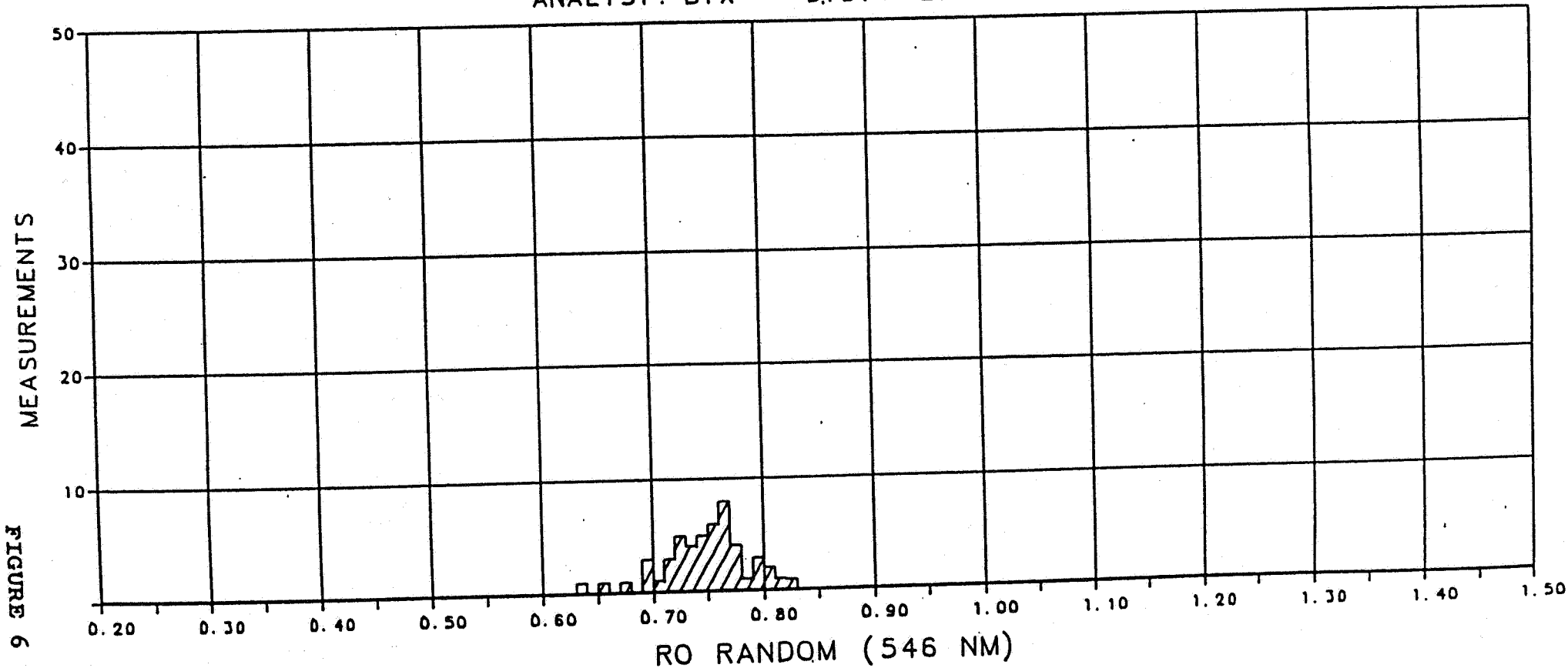
SAMPLE 3490.6 M; VITRINITE-2

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3493 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.74
DEVIATION : 0.04
MODE : 0.76
MEASUREMENTS: 50

ANALYST: BTX D. D. : 29-JUN-84



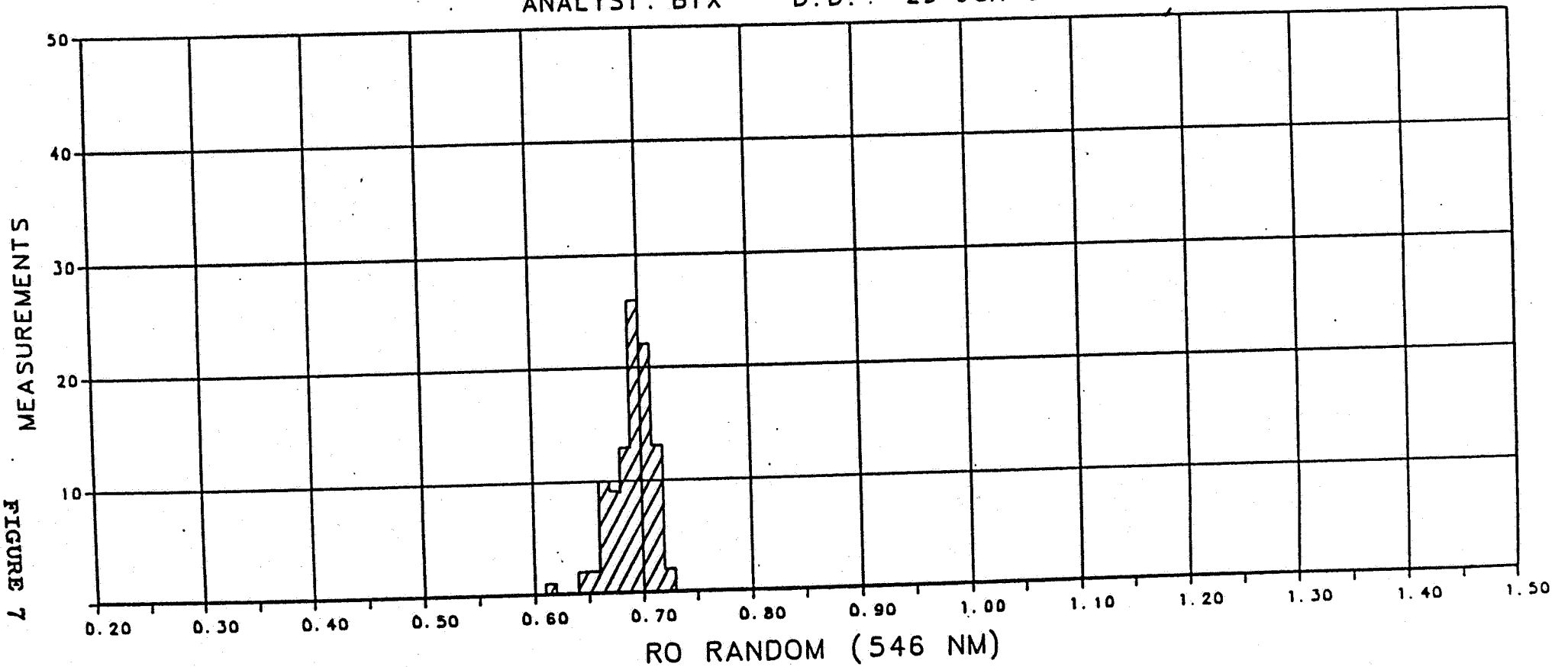
SAMPLE 3493.9 M; SLIGHTLY OXIDISED VITRINITE-2

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3494 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.69
DEVIATION : 0.02
MODE : 0.69
MEASUREMENTS: 100

ANALYST: BTX D.D.: 29-JUN-84



SAMPLE 3494.2 M; TELOCOLLINITE

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6407/2-1
DEPTH/SAMPLE NR. : 3496 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.62
DEVIATION : 0.05
MODE : 0.62
MEASUREMENTS : 50

ANALYST: BTX D.D.: 29-JUN-84

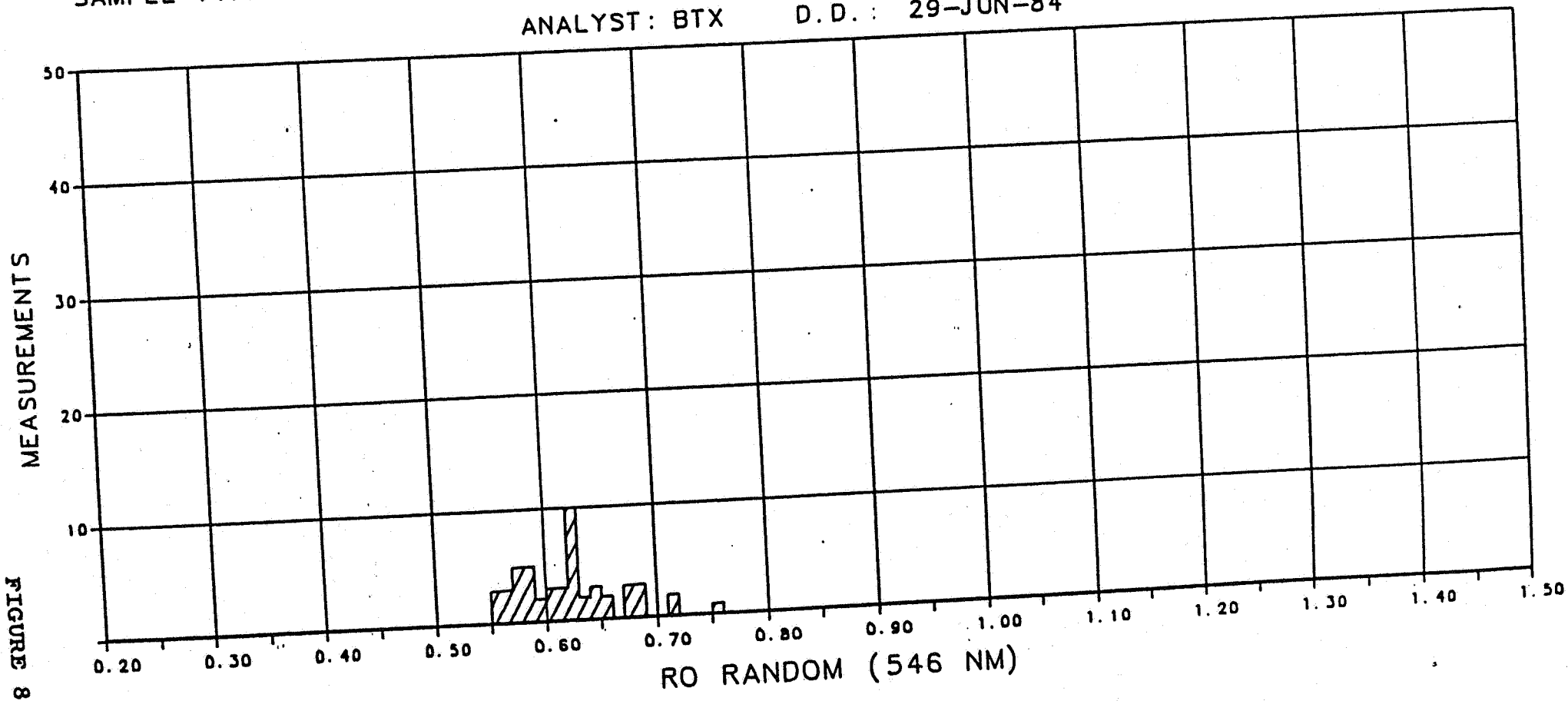


FIGURE 8

SAMPLE 3496.8 M; VITRINITE-2