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MATURITY MEASUREMENTS ON COAL SAMPLES FROM
CORES FROM WELL 6507/12-1,

NORWAY

by

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code: 774.10300

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Investigation

9.5.4081

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1.0 INTRODUCTION

Maturity measurements have been carried out on seventeen coal samples from cores from well 6507/12-1.

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 desmocolinite (vitrinite-2) have to be used to estimate the degree of carbonisation.

Vitrinite reflectance measurements carried out on desmocolinite 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 desmocolinite 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
6507/12-1	2525.5	0.48 (55)	mixture telocollinite/ telinite
"	2707.4	0.43 (53/54)	mixture telinite/ vitrinite-2
"	2708.8	0.51 (56)	vitrinite-2
"	2710.4	0.56 (58)	mixture telocollinite/ collinite/vitrinite-2
"	2710.7	0.54 (57/58)	telocollinite/ collinite

Remarks

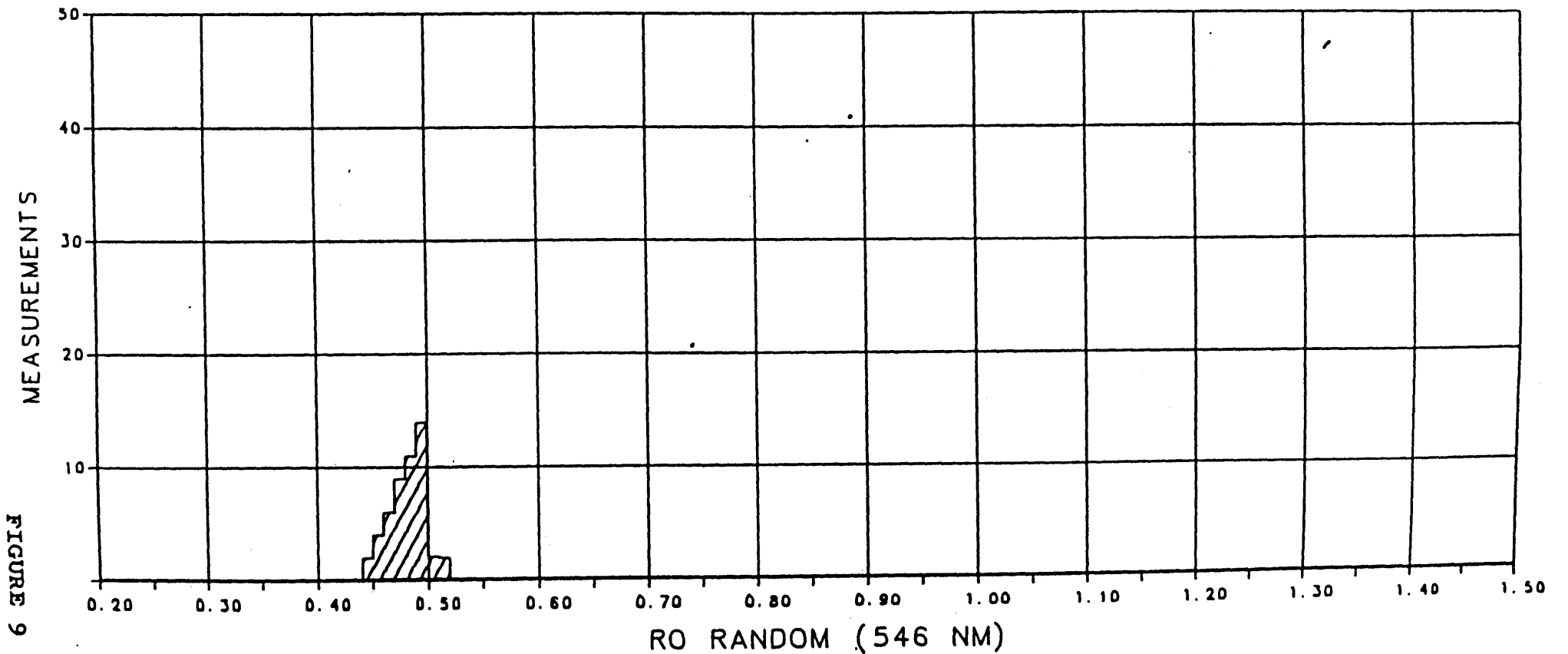
Well 6507/12-1:
 Samples 2524.0, 2524.8, 2709.5 and 2712.8m of this well contain only fusinite, semi-fusinite and oxidised vitrinite-2 (type IV "source rocks"). Therefore VR-measurements were not possible on these samples.

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6507/12-1
DEPTH/SAMPLE NR. : 2525 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.48
DEVIATION : 0.02
MODE : 0.49
MEASUREMENTS: 50

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



SAMPLE 2525.5 M; MIXTURE TELOCOLLINITE/TELINITE

REFLECTANCE HISTOGRAM

COUNTRY	: NORWAY	MEAN	: 0.43
WELL/OUTCROP	: 6507/12-1	DEVIATION	: 0.02
DEPTH/SAMPLE NR.	: 2707 M	MODE	: 0.45
SAMPLE TYPE	: CORE SAMPLE	MEASUREMENTS:	50

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

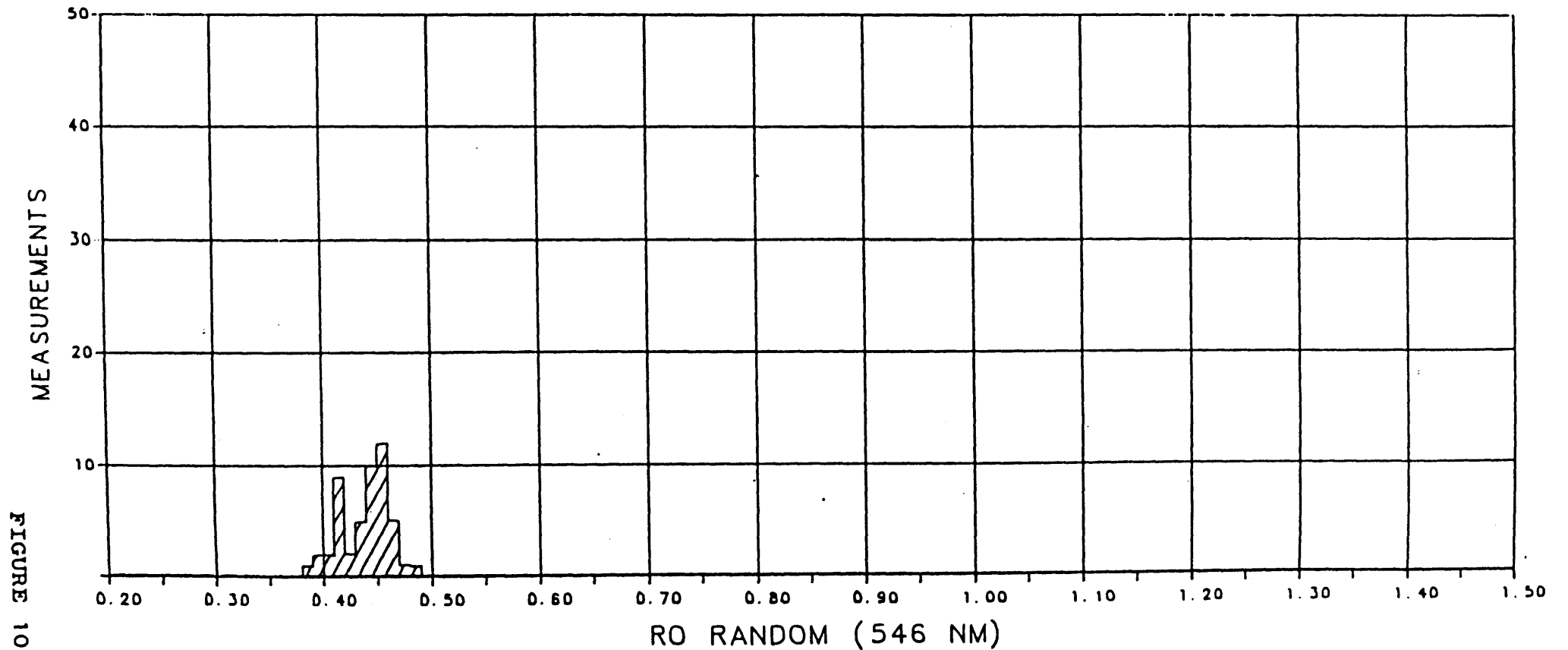


FIGURE 10

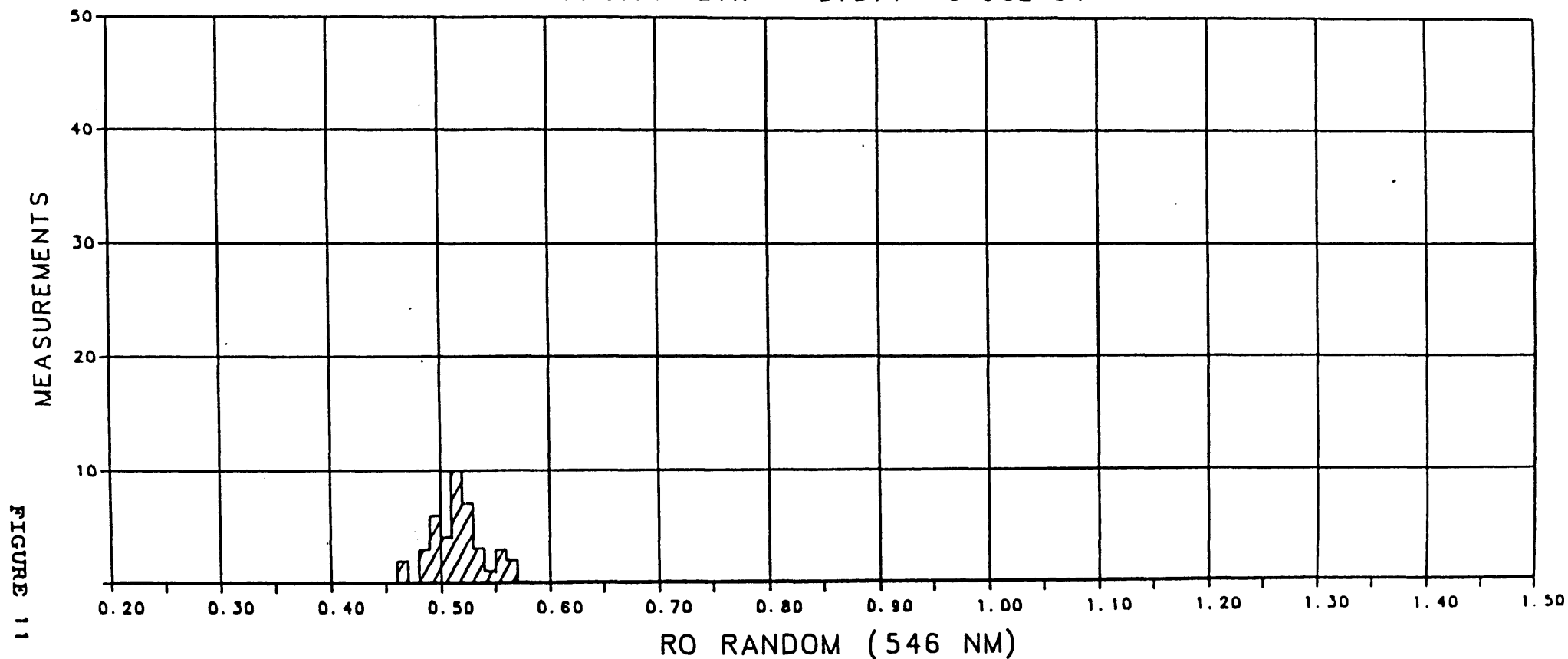
SAMPLE 2707.4 M; MIXTURE TELINITE/VITRINITE-2

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6507/12-1
DEPTH/SAMPLE NR. : 2708 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.51
DEVIATION : 0.02
MODE : 0.51
MEASUREMENTS: 41

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



SAMPLE 2708.8 M; VITRINITE-2

REFLECTANCE HISTOGRAM

COUNTRY : NORWAY
WELL/OUTCROP : 6507/12-1
DEPTH/SAMPLE NR. : 2710 M
SAMPLE TYPE : CORE SAMPLE

MEAN : 0.56
DEVIATION : 0.02
MODE : MULTI
MEASUREMENTS: 50

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

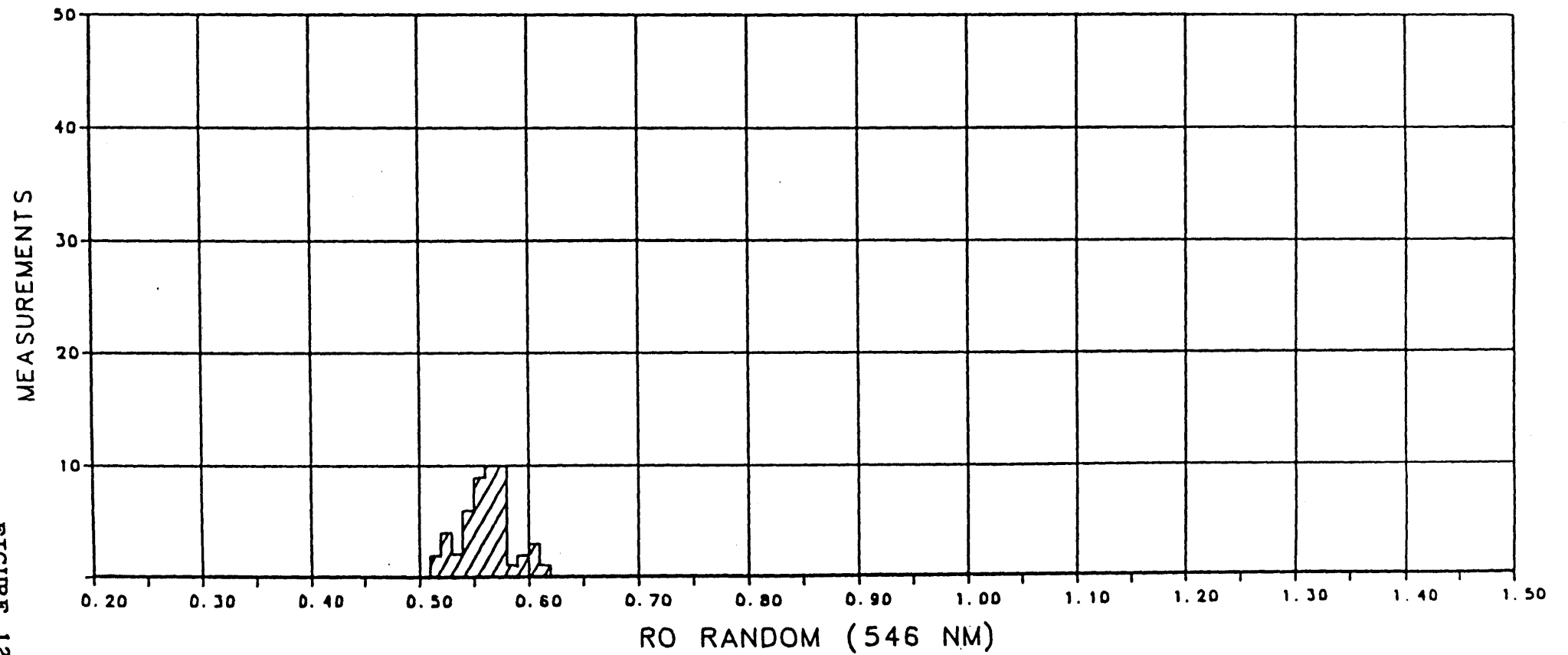


FIGURE 12

SAMPLE 2710.4 M; MIXTURE TELOCOLLINITE/COLLINITE/VITRINITE-2

~~REFLECTANCE HISTOGRAM~~

COUNTRY	: NORWAY	MEAN	: 0.54
WELL/OUTCROP	: 6507/12-1	DEVIATION	: 0.02
DEPTH/SAMPLE NR.	: 2710 M	MODE	: 0.55
SAMPLE TYPE	: CORE SAMPLE	MEASUREMENTS:	50

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

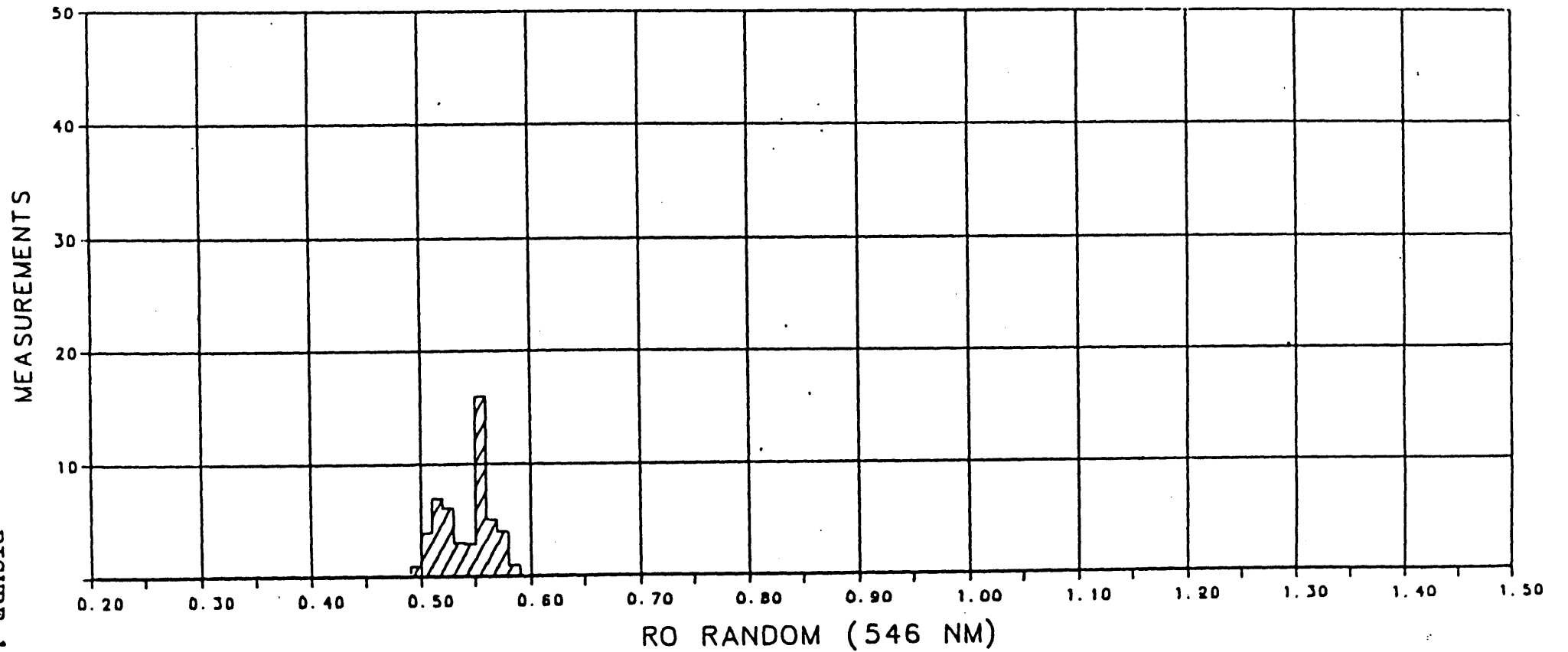


FIGURE 13

SAMPLE 2710.7 M; TELOCOLLINITE/ COLLINITE