AUTHOR

TITLE GENIZA

IMPRINT

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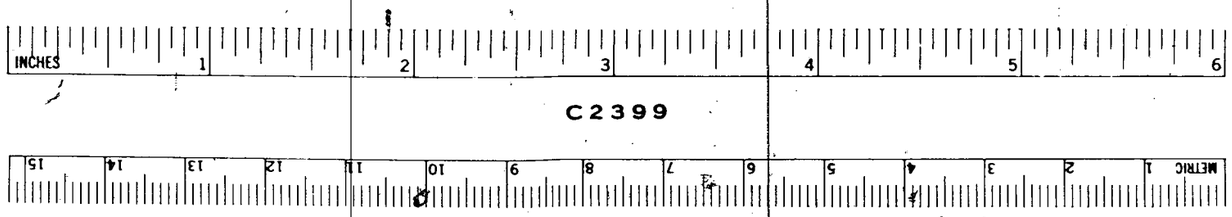

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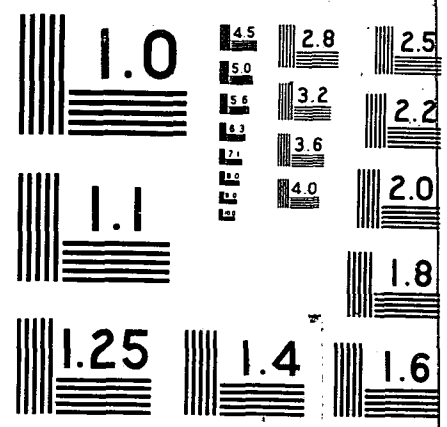
RESOLUTION CHART



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS – 1963

100 MILLIMETERS

INSTRUCTIONS Resolution is expressed in terms of the lines per millimeter recorded by a particular film under specified conditions. Numerals in chart indicate the number of lines per millimeter in adjacent "T-shaped" groupings.

In microfilming, it is necessary to determine the reduction ratio and multiply the number of lines in the chart by this value to find the number of lines recorded by the film. As an aid in determining the reduction ratio, the line above is 100 millimeters in length. Measuring this line in the film image and dividing the length into 100 gives the reduction ratio. Example: the line is 20 mm. long in the film image, and 100/20 = 5.

Examine "T-shaped" line groupings in the film with microscope, and note the number adjacent to finest lines recorded sharply and distinctly. Multiply this number by the reduction factor to obtain resolving power in lines per millimeter. Example: 7.9 group of lines is clearly recorded while lines in the 10.0 group are not distinctly separated. Reduction ratio is 5, and 7.9 x 5 = 39.5 lines per millimeter recorded satisfactorily. 10.0 x 5 = 50 lines per millimeter which are not recorded satisfactorily. Under the particular conditions, maximum resolution is between 39.5 and 50 lines per millimeter.

Resolution, as measured on the film, is a test of the entire photographic system, including lens, exposure, processing, and other factors. These rarely utilize maximum resolution of the film. Vibrations during exposure, lack of critical focus, and exposures yielding very dense negatives are to be avoided.

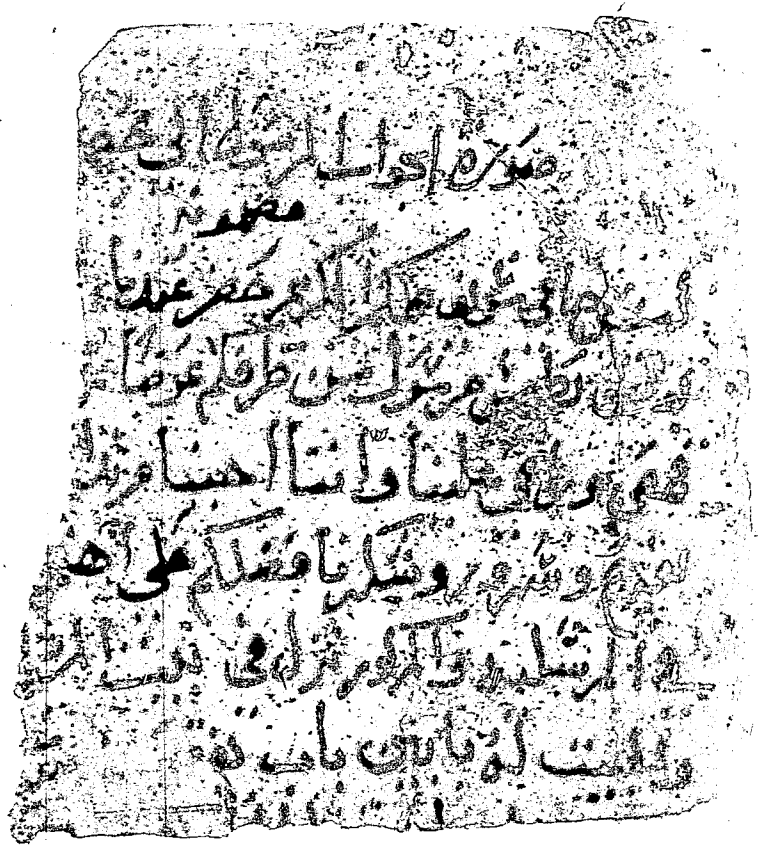
The restoration of this manuscript

was made possible

by the

Gustav Wurzweiler

Foundation



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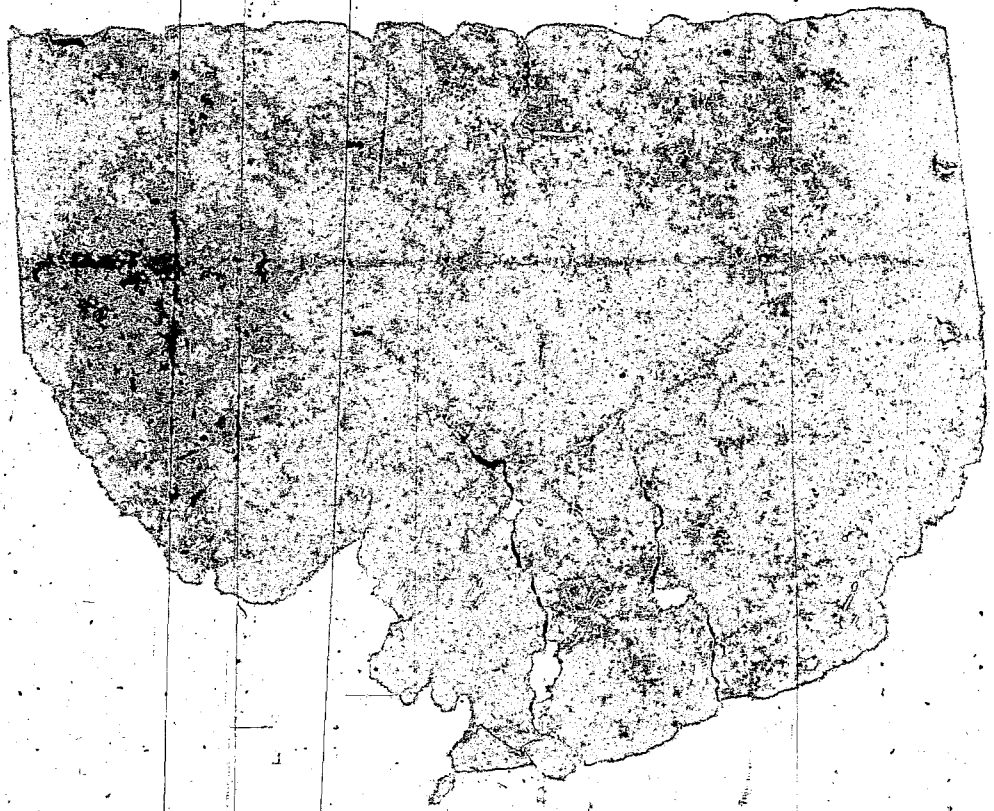

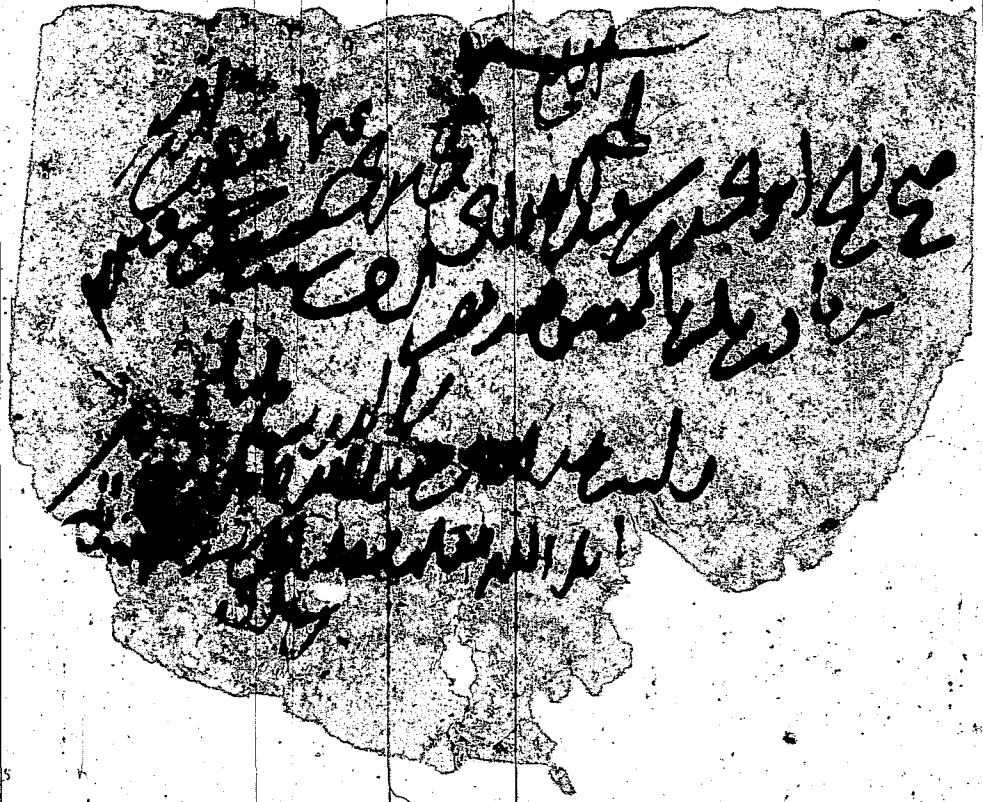

موسم زلال جمادی الاول سنه

لحم ابره لبیه

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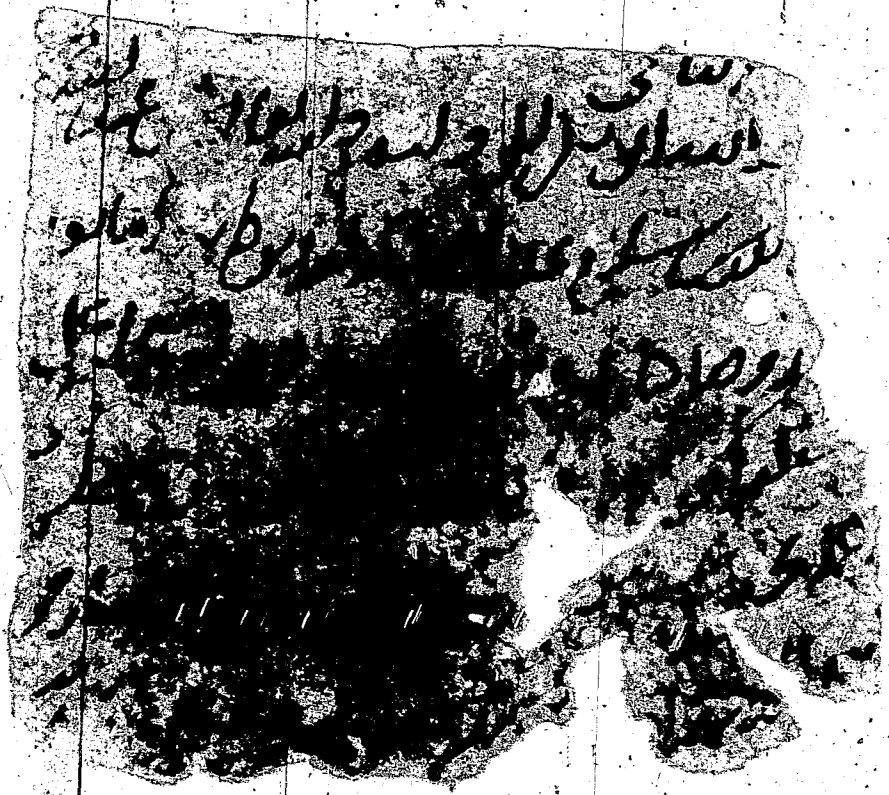
الحمد لله وحده وصلى الله على سيدنا محمد
وآله وصحبه وسلم
علم ما يتعلق بالأمر الذي
في الجادة
الحالة الثانية

بسم الله الرحمن الرحيم

شهادت عدل



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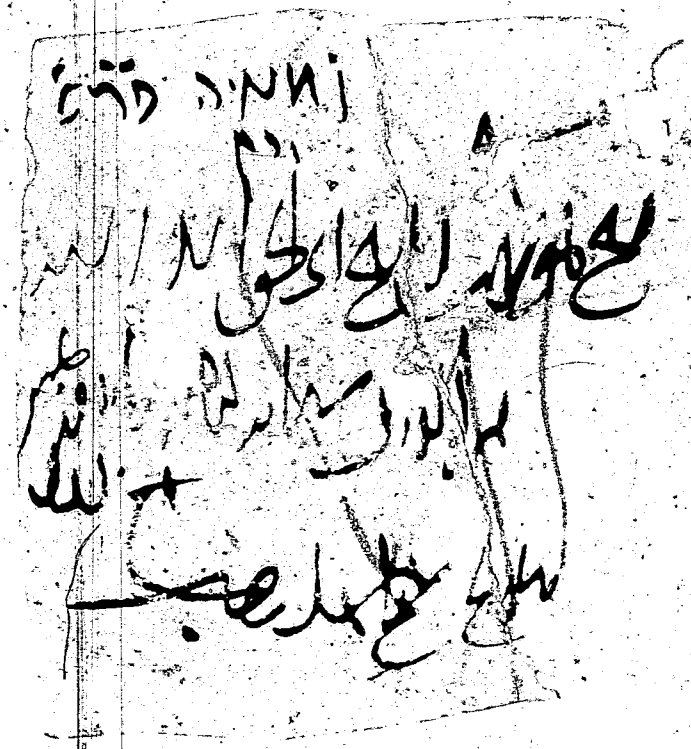

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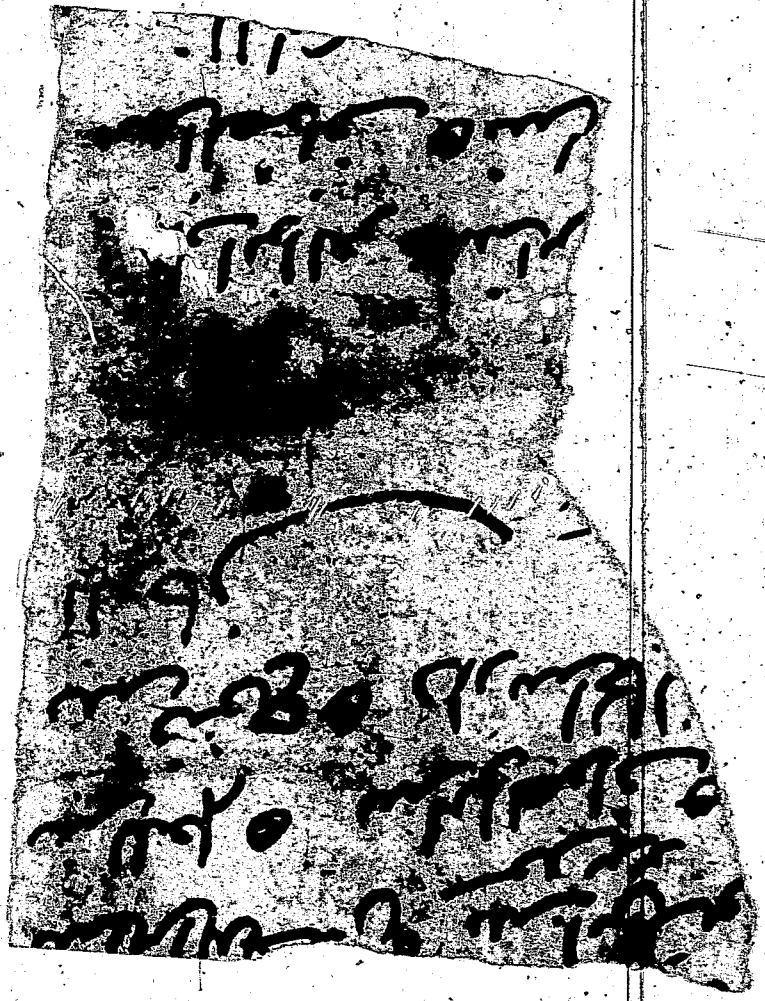

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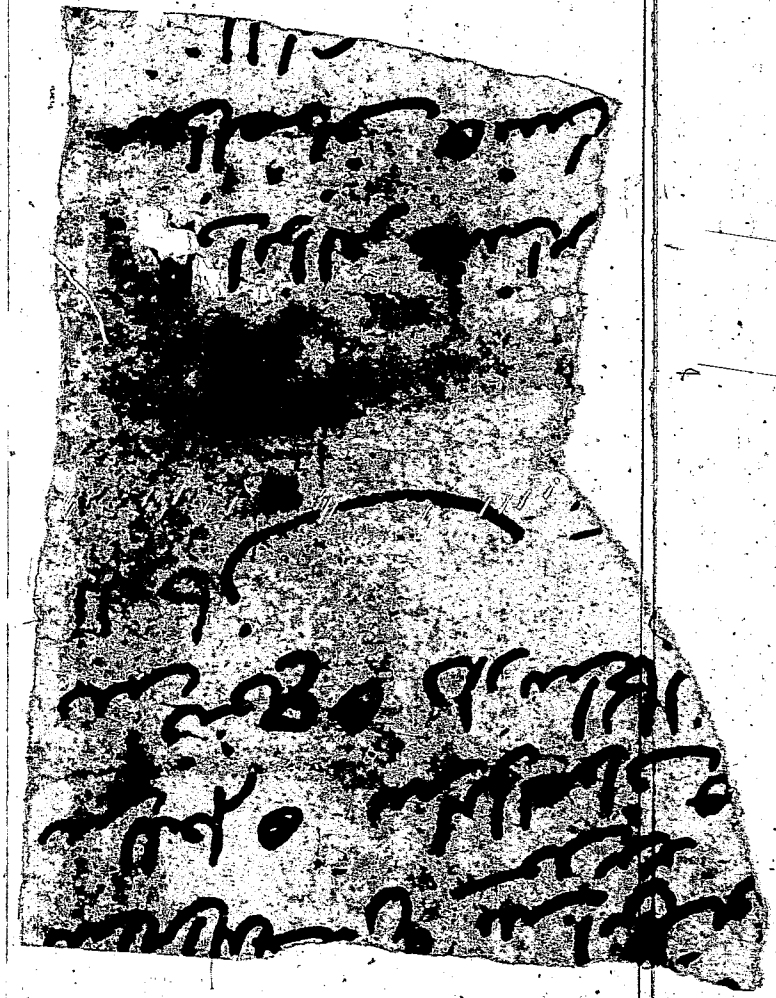

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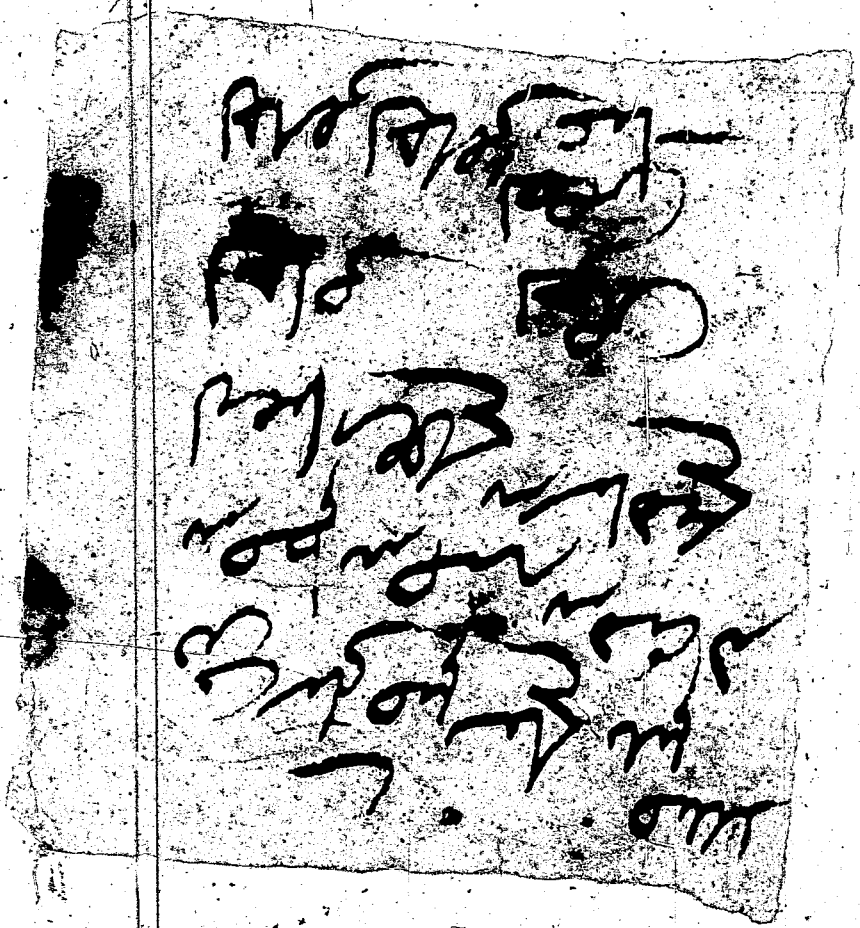

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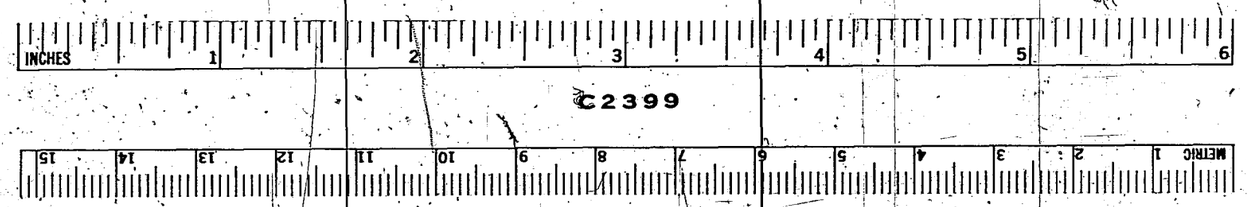

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