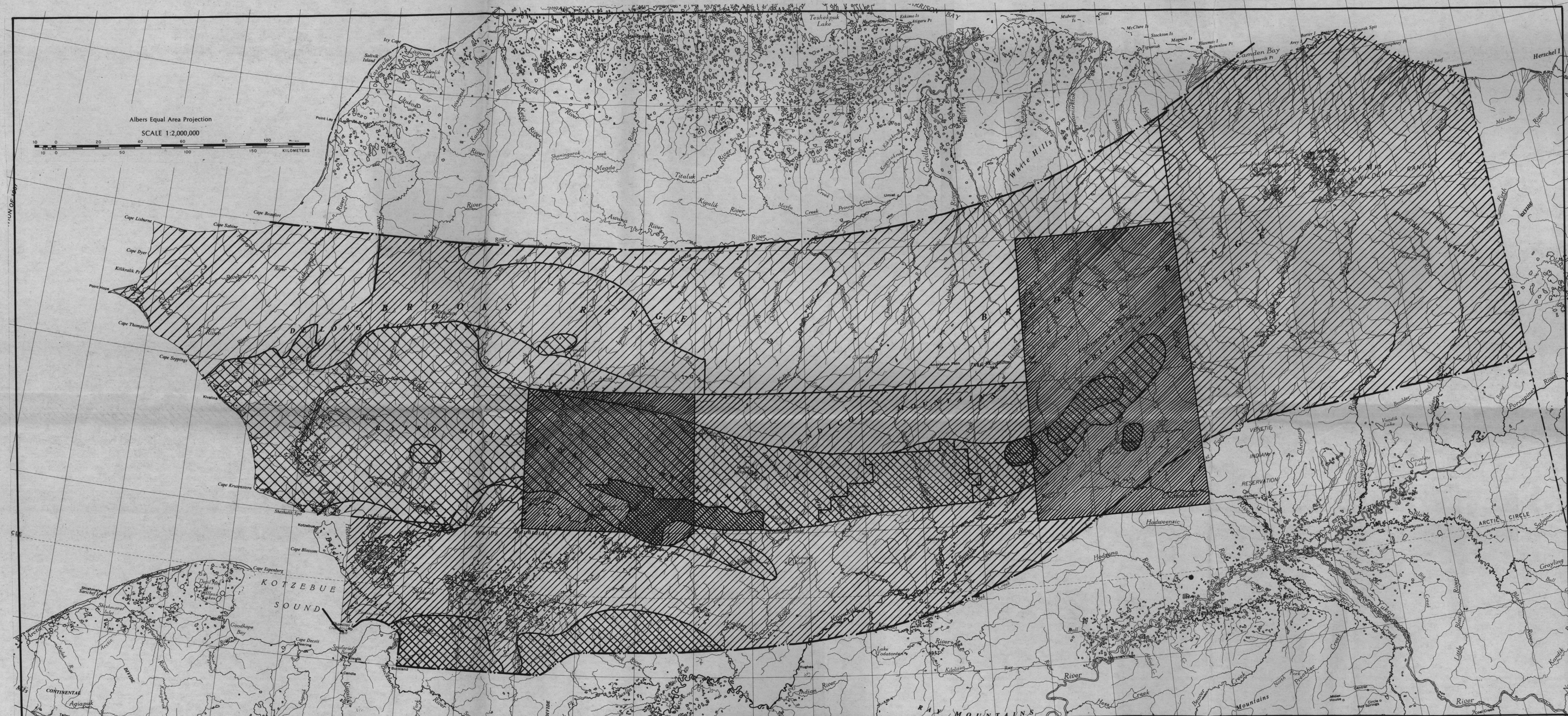


Base map from the National Atlas of the United States of America, U.S. Geological Survey, 1970



STATUS OF MINERAL RESOURCE INFORMATION

LEGEND
STATUS OF MINERAL RESOURCE INFORMATION

U.S. Geological Survey and Alaska Division of Geological and Geophysical Surveys Work

Recent (within the last 10 years) reconnaissance to semi-detailed geologic mapping with emphasis on or a pronounced effort to simultaneously determine the mineral resources of the area. Includes systematic geochemical sampling. Consists principally of Alaska Mineral Resource Assessment Program (AMRAP) quadrangles; some of these data are as yet unpublished.

Modern (generally within the last 15 years) reconnaissance to semi-detailed geologic mapping with some attention given to non-fuel mineral resources. Some areas may include geochemical sampling but much of it is widely scattered and non-systematic. Also includes work on National Petroleum Reserve Alaska (NPRA) in 1977.

Relatively old (generally pre-1960) reconnaissance to semi-detailed geologic mapping with little effort to determine the area's non-fuel mineral resources. Almost no geochemical sampling.

Note: Sources are not specifically cited here but are given in two other open-file reports of this series (Grybeck, 1977 a and b).

Private Industry Work

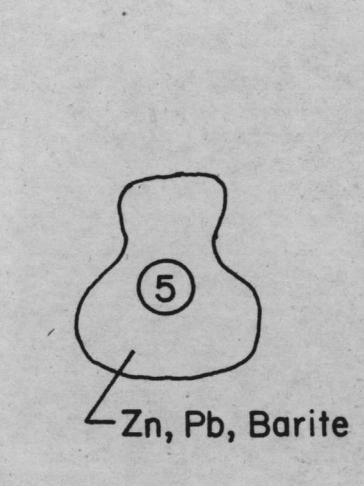
Area examined relatively thoroughly by industry with detailed geologic mapping, geochemical sampling, various geophysical methods and by some diamond drilling.

Area examined by industry in some detail. Type of exploration varies but may include detailed to semi-detailed mapping, geochemistry, various geophysical techniques, and locally, limited diamond drilling.

Area examined by industry with reconnaissance methods including reconnaissance to semi-detailed mapping and geochemical sampling. Most work on what is now (1)(2) land predates the Alaska Native Claims Settlement Act of 1971.

Note: Information about areas studied by industry either was furnished informally to us by company representatives or is available as common knowledge. There is no systematic record of this work and some, particularly reconnaissance, work may have escaped inclusion on this map.

In addition to this areal work, there have been numerous examinations of individual prospects and mineralized zones not shown here. Many of them have repeatedly been visited by industry; the results of those examinations have, so far as known, been incorporated in another report of this series (Grybeck, 1977a).

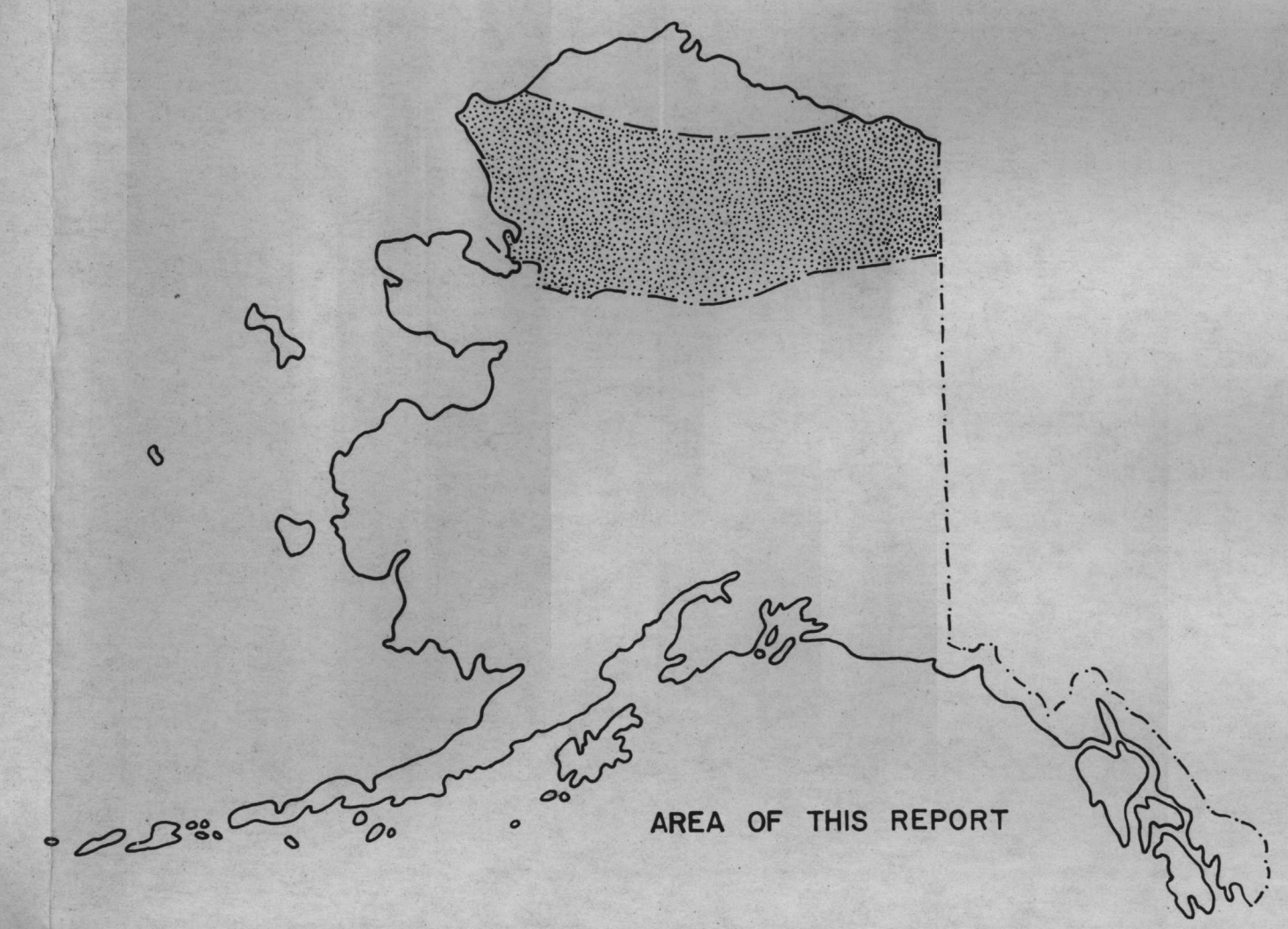


Zn, Pb, Barite

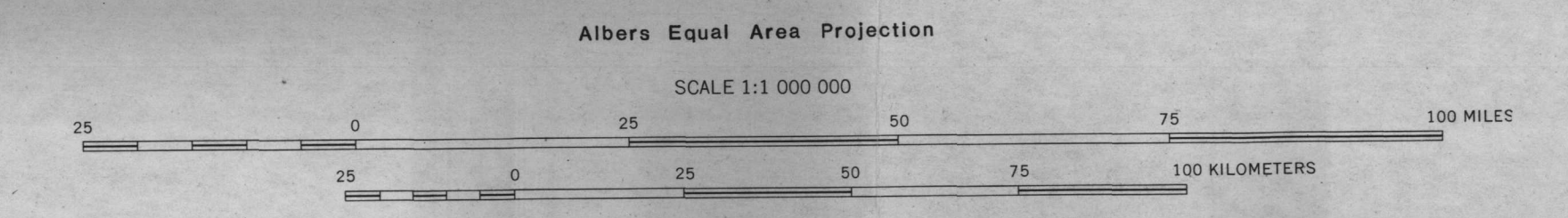
LEGEND
Boundaries of mineral resource area. Principle commodity or commodities are given by their chemical symbol or spelled out. Byproducts where known are given in parentheses. Numbers refer to table 1 of this report. The pattern within the boundaries are of no significance other than better definition of the areas.

Boundary of Brooks Range Regional Mineral Resource Assessment Program (RAMRAP) as used in this report.

This report is preliminary and has not been reviewed by the U.S. Geological Survey standards and nomenclature.



AREA OF THIS REPORT



MAP AND TABLES DESCRIBING MINERAL RESOURCE POTENTIAL OF THE BROOKS RANGE, ALASKA

Donald Grybeck and John H. DeYoung Jr.