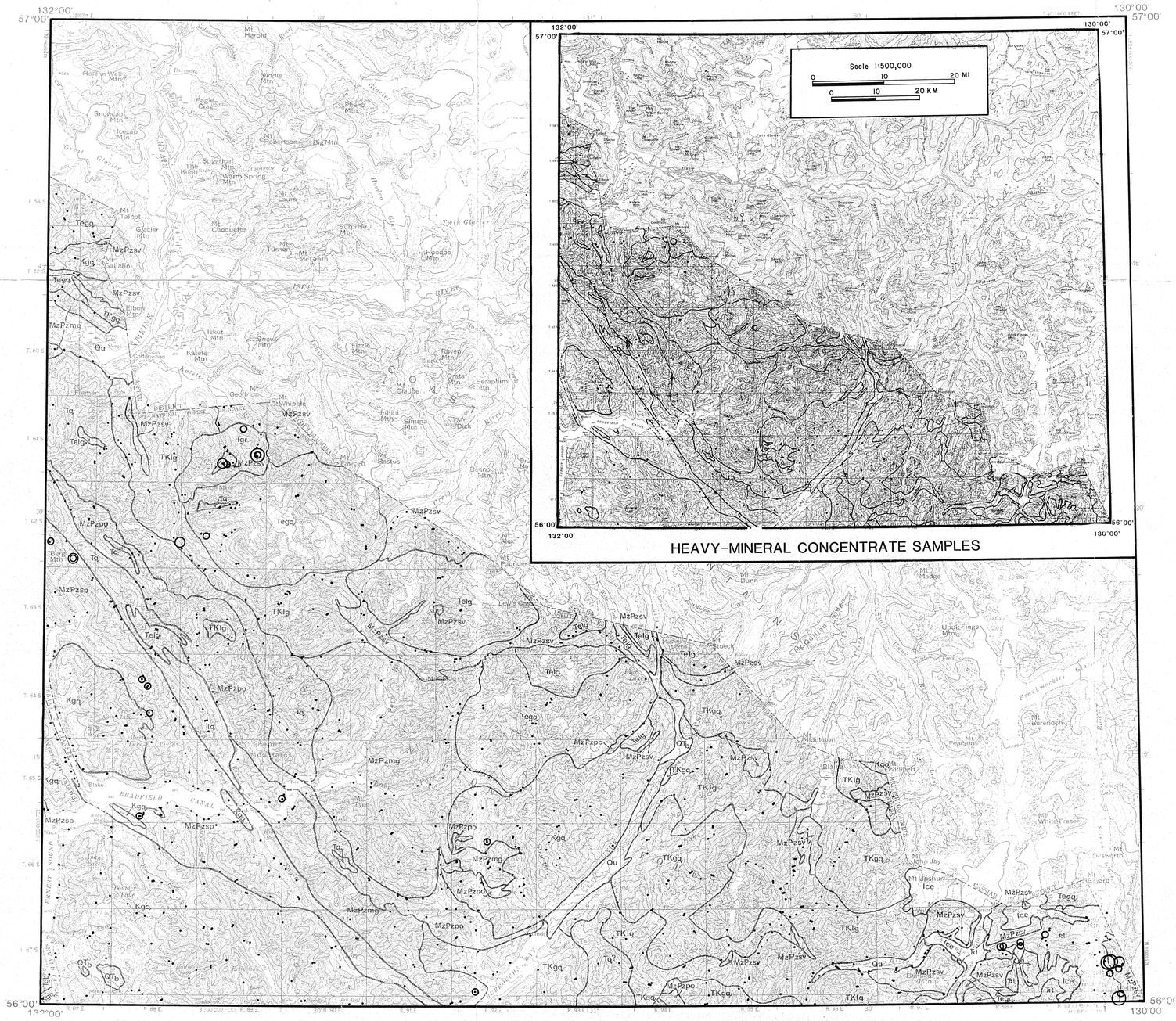
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

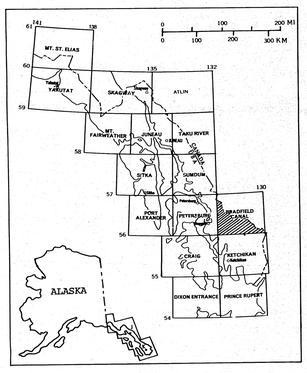
ZINC IN STREAM-SEDIMENT SAMPLES
(spectrographic determinations)

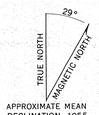
OPEN-FILE REPORT
81-728-F
Sheet 4 of 4



Base from USGS 1:250,000 topo series:
Bradfield Canal, 1955, ALASKA-CANADA.

SCALE 1:250 000
5 0 5 10 15 20 25 MILES
5 0 5 10 15 20 25 KILOMETERS
CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL





APPROXIMATE MEAN
DECLINATION, 1955

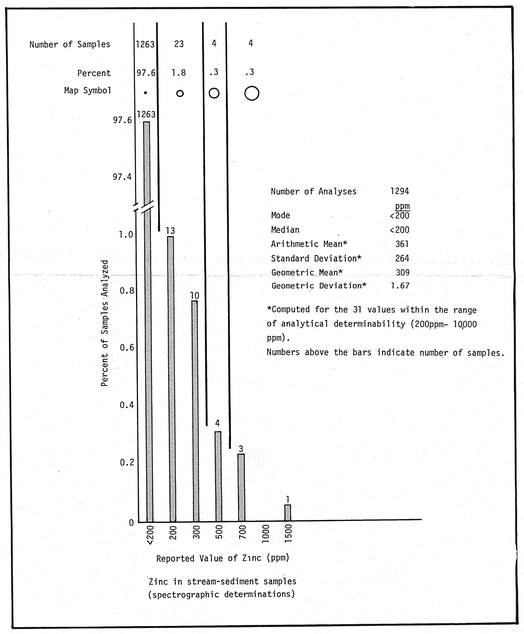
STREAM-SEDIMENT SAMPLES

Geology by H. C. Berg, D. A. Brew, A. L. Clark, W. H. Condon, J. E. Decker, M. F. Diggles, G. C. Dunne, R. L. Elliott, J. D. Gallinatti, M. H. Herdrick, S. M. Karl, R. D. Koch, M. L. Miller-Hoare, R. P. Morrell, J. G. Smith, and R. A. Sonnevil, 1968-1979.

This report is preliminary and has not been reviewed for conformity with Geological Survey editorial standards and stratigraphic nomenclature.

FOLIO OF THE BRADFIELD CANAL QUADRANGLE, ALASKA

KOCH AND ELLIOTT--GEOCHEMISTRY-ZN



	ppm
Number of Analyses	1294
Mode	<200
Median	<200
Arithmetic Mean*	361
Standard Deviation*	264
Geometric Mean*	309
Geometric Deviation*	1.67

*Computed for the 31 values within the range of analytical determinability (200ppm- 10000 ppm).
Numbers above the bars indicate number of samples.

Zinc was detected by spectrographic analysis in only one heavy-mineral concentrate sample. The reported zinc value for that sample is 700 ppm. (Lower analytical determination limit is 200 ppm.)

Unit Descriptions

Qu	UNCONSOLIDATED DEPOSITS, UNDIVIDED (Quaternary)
QT_b	BASALT (Quaternary and Tertiary?)
Tgr	ALKALI-FELDSPAR GRANITE WITH ASSOCIATED QUARTZ-PORPHYRITIC RHYOLITE DIKES AND FLOWS(?) (Miocene?)
Tgb	BIOTITE-PYROXENE GABBRO, LOCALLY CONTAINS HORNBLENDE AND/OR OLIVINE (Miocene)
Telg	LEUCOCRATIC QUARTZ MONZONITE AND GRANODIORITE (Eocene)
Tegq	GRANODIORITE AND QUARTZ DIORITE (Eocene)
Tq	QUARTZ DIORITE (Eocene or Paleocene)
TKlg	LEUCOCRATIC QUARTZ MONZONITE AND GRANODIORITE (Tertiary and/or Cretaceous)
TKgq	GRANODIORITE AND QUARTZ DIORITE (Tertiary and/or Cretaceous)
Kgq	BIOTITE-HORNBLENDE QUARTZ DIORITE, PLAGIOCLASE-PORPHYRITIC BIOTITE GRANODIORITE/QUARTZ DIORITE, BOTH LOCALLY CONTAIN GARNET AND/OR EPIDOTE (Cretaceous)
Trt	TEXAS CREEK GRANODIORITE (Triassic)
MzPzmg	MIGMATITE AND ORTHOGNEISS, WITH LESSER PARAGNEISS (Mesozoic and/or Paleozoic)
MzPzpo	PARAGNEISS AND ORTHOGNEISS, WITH LESSER AMPHIBOLITE AND MARBLE (Mesozoic and/or Paleozoic)
MzPzsp	SCHIST AND PARAGNEISS, WITH LESSER AMPHIBOLITE AND MARBLE (Mesozoic and/or Paleozoic)
MzPzsv	METASEDIMENTARY AND LESSER METAVOLCANIC ROCKS, WITH LOCAL MARBLE (Mesozoic and/or Paleozoic)

MAPS SHOWING DISTRIBUTION AND ABUNDANCE OF ZINC IN GEOCHEMICAL SAMPLES FROM THE BRADFIELD CANAL QUADRANGLE, SOUTHEASTERN ALASKA

by

R.D.KOCH AND R.L.ELLIOTT

1981