PLATE 2
U.S. GEOLOGICAL SURVEY
OPEN FILE REPORT 79-1092
GEOCHEMICAL SAMPLES

INTRODUCTION TO GEOCHEMICAL ANALYSES
All the samples listed on this sheet were collected during the 1979 summer field season. The rock, soil, and a few stream-sediment samples from the Ginny Creek area were analyzed by Skyline Labs Inc., Ahwahnee, California. The other stream-sediment samples were analyzed by the Colorado Geological Survey using the techniques described in the report. Stream-sediment samples are from the upper section collected either on gravel bars or on stream beds. Soil and stream-sediment samples were sieved, and a 0.00 mesh U.S. Standard Series fraction was analysed. A 0.00 mesh fraction was analysed from crushed rock samples. Each sample was analysed for 31 elements by emission spectrophotometry. These samples from the U.S. Geological Survey analytical labs were analyzed for Pb and Cu, but not for Ba and Zn. Samples from Skyline Labs Inc. were analyzed for Cu and Zn, but not Ba or Pb. The atomic absorption spectrophotometry results for Pb and Cu were converted to parts per million. The atomic absorption spectrophotometry values for selected important elements, Ca, Fe, Mg, and Ti, are given in parts per million.

IN THE SAMPLE SET FROM SKYLINE LABS, LEAD VALUES APPEAR TO BE 2 TO 12 TIMES HIGHER THAN SAMPLES ANALYSED BY EMISSION SPECTROPHOTOMETRY. THE SIGNIFICANCE OF SPECIFIC SAMPLES WITH HIGH VALUES OF SILICA, SULPHUR, OR BARIUM IS DISCUSSED IN THE TEXT.

EXPLANATION FOR GEOCHEMICAL SAMPLE LOCATIONS

- stream-sediment or soil sample
- rock sample
- rock chips from surface float randomly taken along a linear traverse

EXPLANATION FOR TABLE OF GEOCHEMICAL ANALYSES

- not detected at lower limit of detection
- means either "not detected" or "less than" if analysed by Skyline Lake Inc.; means "detected but less than" if analysed by U.S. Geological Survey

The sample locations and the sample results for selected important elements are shown in the map.

TABLE OF GEOCHEMICAL ANALYSES

GEOCHEMICAL SAMPLING LOCATIONS
NEAR THE GINNY CREEK Zn-Pb-Ag DEPOSIT

GEOCHEMICAL SAMPLING LOCATIONS
NEAR THE NIMIUTKUK BARITE DEPOSIT

LOCATION OF GEOCHEMICAL MAPS IN THE NIMIUTKUK MOUNTAIN QUADRANGLE

RECONNAISSANCE GEOLOGY OF THE GINNY CREEK ZINC-LEAD SILVER AND NIMIUTKUK BARITE DEPOSITS, NORTHWESTERN BROOKS RANGE, ALASKA

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