

Base map from U.S. Geological Survey, 1:250,000
Talkeetna Mountains Quadrangle, Alaska, 1955

SYMBOLS

| Explanatory Note | |
|---|--|
| This report, consisting of a map and a pamphlet of text, three tables, and a list of references cited, is the culmination of a series of multidisciplinary investigations to assess the mineral resources of the Talkeetna Mountains quadrangle of Alaska. These multidisciplinary investigations were carried out under the auspices of the U.S. Geological Survey's Alaska Mineral Resource Assessment Program (AMRAP). | |
| T | Disseminated tin deposits |
| Msv | Massive sulfide base and precious metal deposits associated with volcanic rocks. |
| P | Porphyry copper and (or) porphyry molybdenum deposits. |
| V | Base and precious metal vein deposits. |
| (P) | Porphyry molybdenum deposits in area selected primarily for another deposit type |

| Letter symbols for type(s) of mineral deposits. Subscript numbers correspond to numbers in table 1. | |
|---|--|
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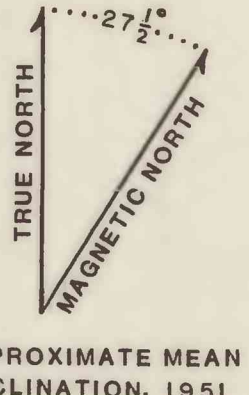
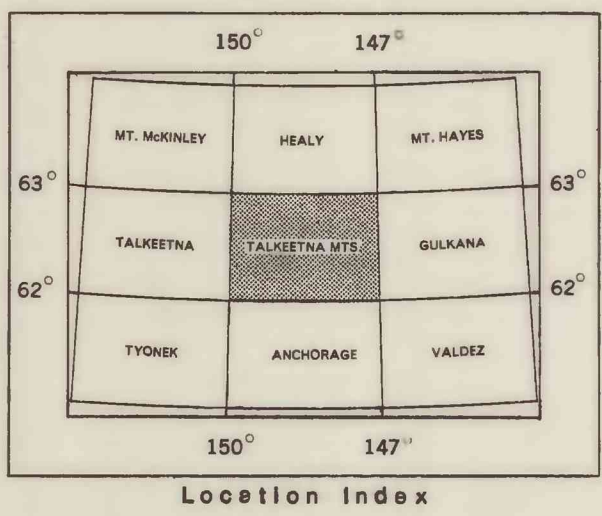
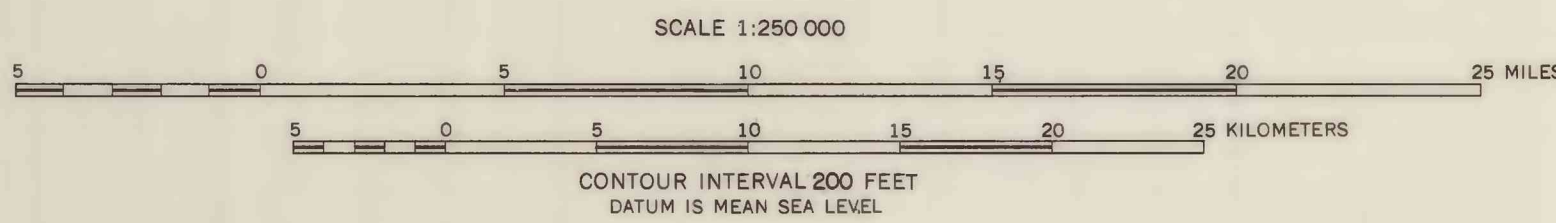
| Delineated tract for the occurrence of certain types of mineral deposits. Type(s) of deposits designated by letter symbols. Criteria used to define tracts are listed in table 1 for each area. | |
|---|--|
| T | Disseminated tin deposits |
| Msv | Massive sulfide base and precious metal deposits associated with volcanic rocks. |
| P | Porphyry copper and (or) porphyry molybdenum deposits. |
| V | Base and precious metal vein deposits. |
| (P) | Porphyry molybdenum deposits in area selected primarily for another deposit type |

| Individual mineral deposits and occurrences. Numbers adjacent to the mineral deposit symbols correspond to map numbers in table 3. | |
|--|--|
| ● | Mine. Has produced but not necessarily shipped ore. Presently claimed. |
| ○ | Prospect. Has been claimed; in most cases has been scantily explored; lacks evidence of production. Claims may or may not be presently active. |
| ○ | Occurrence. Generally a minor deposit that has not been claimed as far as known. Heavily known from recent U.S. Geological Survey field investigations or from the analyses of geochemical rock samples. Also includes the locations of float samples with anomalous concentrations of metals. |

| Lode deposits | |
|---------------|--|
| ● | Mine. Has produced but not necessarily shipped ore. Presently claimed. |
| ○ | Prospect. Has been claimed; in most cases has been scantily explored; lacks evidence of production. Claims may or may not be presently active. |
| ○ | Occurrence. Generally a minor deposit that has not been claimed as far as known. Heavily known from recent U.S. Geological Survey field investigations or from the analyses of geochemical rock samples. Also includes the locations of float samples with anomalous concentrations of metals. |

| Placer deposits | |
|-----------------|--|
| ⊠ | Mine. Minor but proven record of production. Presently claimed. |
| □ | Prospect. Has been claimed but without proven record of production. Claims may or may not be presently active. |
| ⊠ | Extent of placer deposits. |

| Known or reported commodity(ies). Listed in decreasing order of probable commercial value or of abundance in the deposit. Minor constituents or potential byproducts are shown in parentheses. Metallic commodities are abbreviated using their standard chemical symbols. | |
|--|--|
| Cu, Au, Sn, zirconites | |



EXPLANATION OF GEOLOGIC MAP SYMBOLS

| | |
|---|-----------|
| Contact, approximately located | --- |
| Approximate contact of surficial deposits | - - - - - |
| Fault | --- |
| Long dashed where approximately located; short dashed where inferred; dotted where concealed. U indicates upthrust side where direction of displacement is known. Arrows indicate relative lateral movement | |
| Thrust fault | --- |
| Long dashed where approximately located, dotted where concealed. Teeth indicate upthrust side. | |
| Approximate axis of intense shear zone of variable width, possibly marking a thrust fault | --- |
| Dotted where concealed; teeth indicate possible upthrust side of postulated thrust | |

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

MAP AND DISCUSSION OF THE METALLIFEROUS AND SELECTED NONMETALLIFEROUS MINERAL RESOURCES OF THE TALKEETNA MOUNTAINS QUADRANGLE, ALASKA

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1978