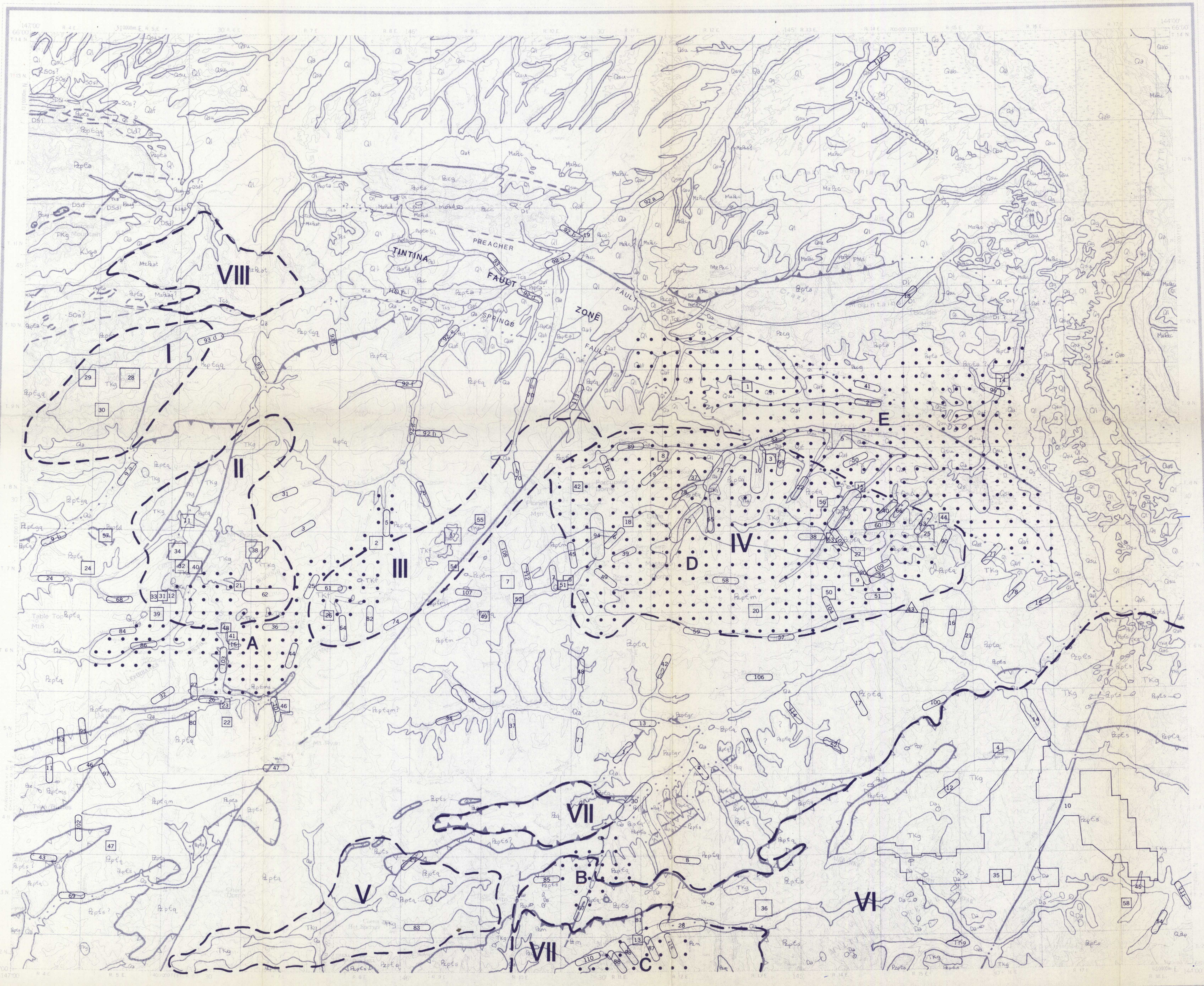


DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY



MINERAL RESOURCE SYMBOLS

- Placer mines and prospects
- 1S 1-100 claims
 - 1E >100 claims
- Lode prospects and occurrences
- 1 1-10 claims
 - 2 11-100 claims
 - 7 101-500 claims
 - 24 501-1000 claims
 - 10 >1000 claims; area claimed approximately outlined
 - △ Occurrence
- Symbols denote general location mines and prospects and are not outlines of claim blocks. Number within symbol refers to table 1 (placers) or table 2 (lodes).
- V Tract permissive for mineral deposits. Roman numeral identifies area as discussed in text
 - Areas containing the majority of past and present placer mines or permissive for the occurrence of undiscovered placer deposits. Capital letter identifies area as discussed in text

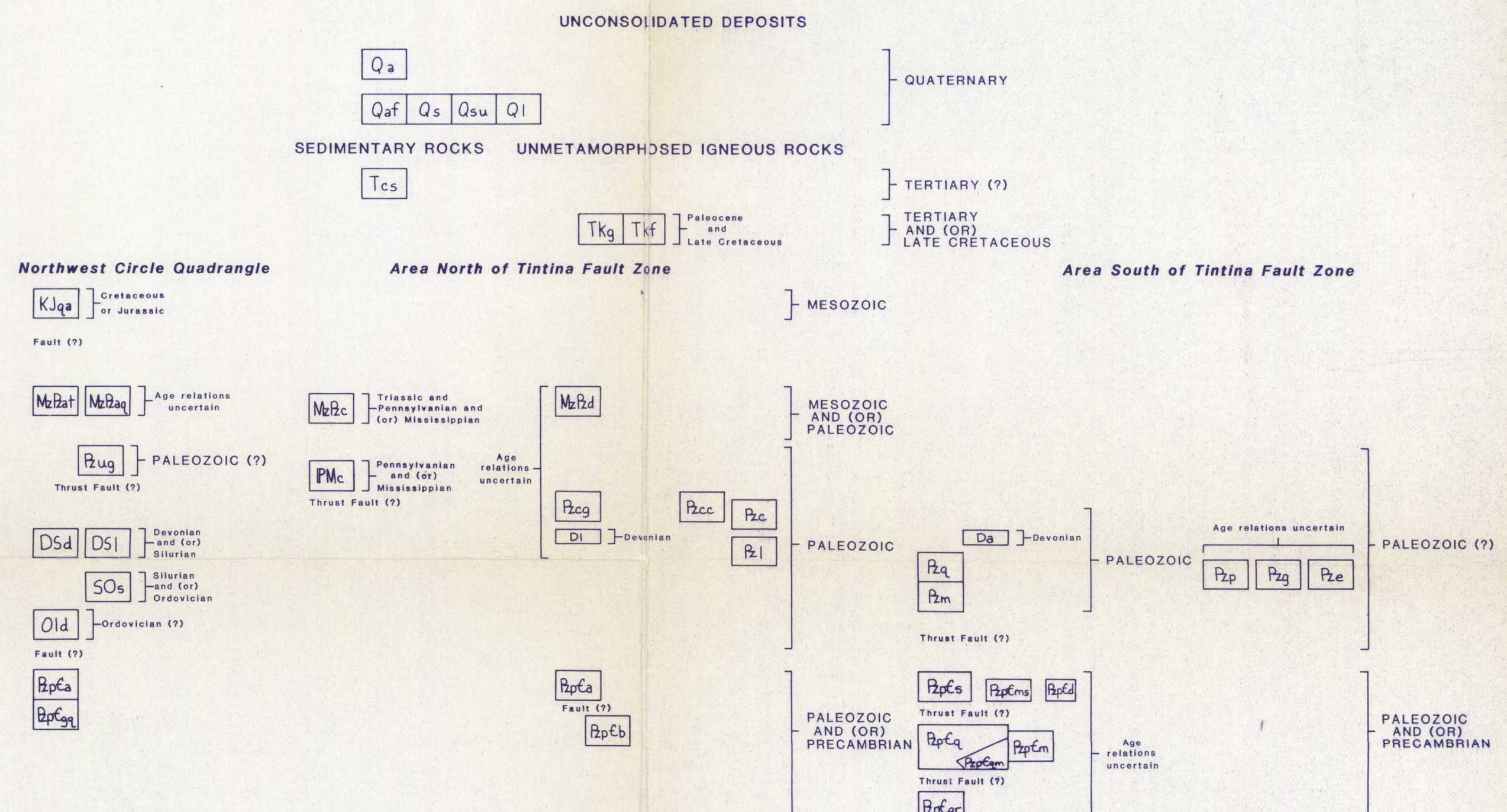
GEOLOGIC SYMBOLS

- Contact
- Approximately located, and inferred
- Fault
- Dashed where existence or kind of fault uncertain or where approximately located; dotted beneath covering deposits; arrows indicate apparent direction of offset
- U, upthrown side
D, downthrown side
- Thrust fault
- Postulated, dotted beneath covering deposits
- Premetamorphic thrust fault
- Postulated; predates major regional metamorphism. Dotted beneath covering deposits

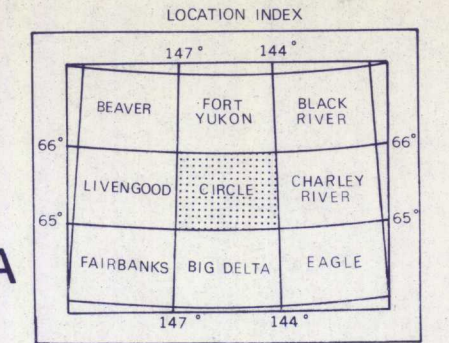
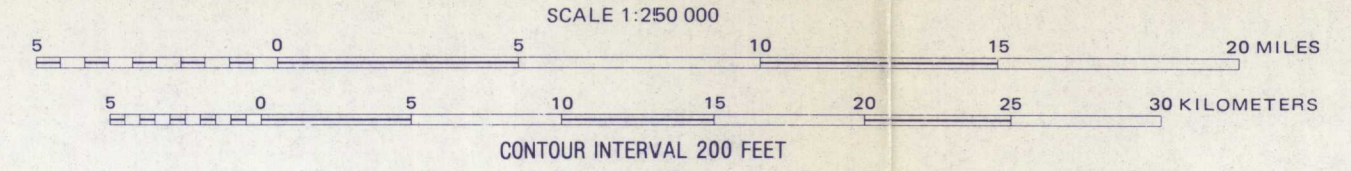
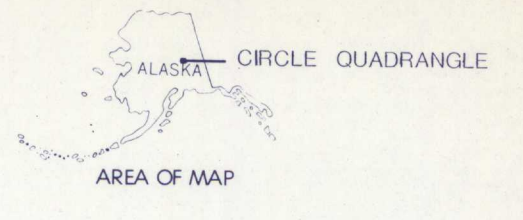
DEFINITION OF MAP UNITS

- | | |
|---|---|
| <p>UNCONSOLIDATED DEPOSITS</p> <ul style="list-style-type: none"> Qa Alluvium and colluvium Qaf Alluvial fan deposits Qs Silt and peat Qsu Silt, undifferentiated and organic material Qg Gravel Ql Loess <p>SEDIMENTARY ROCKS</p> <ul style="list-style-type: none"> Tcs Conglomerate and sandstone <p>UNMETAMORPHISED IGNEOUS ROCKS</p> <ul style="list-style-type: none"> Tkg Granite Tkf Felsic igneous rock <p>NORTHWEST CIRCLE QUADRANGLE</p> <ul style="list-style-type: none"> KJqa Quartzite, argillite, conglomerate, and hornfels MzPaaf Argillite, tuff, quartzite, and conglomerate MzPaqa Argillite and quartzite Pzuaq Ultramafic and mafic rocks and greenstone Dsd Dolomite and argillite Dsl Limestone, dolomite, and shale Sos Siltstone, dolomite, and mafic igneous rocks Oid Livedood Dome(?) Chert PpCa Argillite, grit, and quartzite PpCqa Grit, quartzite, and argillite | <p>AREA NORTH OF TINTINA FAULT ZONE</p> <ul style="list-style-type: none"> MzPac Circle Volcanics and associated rocks Pmc Chert, argillite, and quartzite MzPaDi Diorite PzCa Chert pebble conglomerate Pzcc Chert, conglomerate, and limestone Pzcl Chert and argillite Dl Limestone Pul Limestone and chert PpPaA Argillite, grit, and quartzite PpPcb Basalt and limestone <p>AREA SOUTH OF TINTINA FAULT ZONE</p> <ul style="list-style-type: none"> Ds Augen gneiss Pzqa Quartzite, meta-argillite and phyllite Pzqm Phyllite, calcareous phyllite, and marble PzPcs Pelitic schist PzPcms Garnet-muscovite schist PzPcd Dolomite and marble PzPca Quartzite and quartzitic schists (includes magnetic chlorite schist subunit (PzPcau)) PzPcm Marfic schist PzPcgr Grit and quartzite <p>Ultramafic, mafic, and Eclogitic Rocks</p> <ul style="list-style-type: none"> PzPp Serpentinized peridotite PzPg Greenstones PzPe Eclogite |
|---|---|

CORRELATION OF MAP UNITS



Base from U.S. Geological Survey, 1955



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

GEOLOGY GENERALIZED FROM FOSTER AND OTHERS, 1983

MAP SHOWING MINERAL RESOURCES OF THE CIRCLE QUADRANGLE, ALASKA

BY W.D.MENZIE, H.L.FOSTER, R.B.TRIPP, AND W.E.YEEND