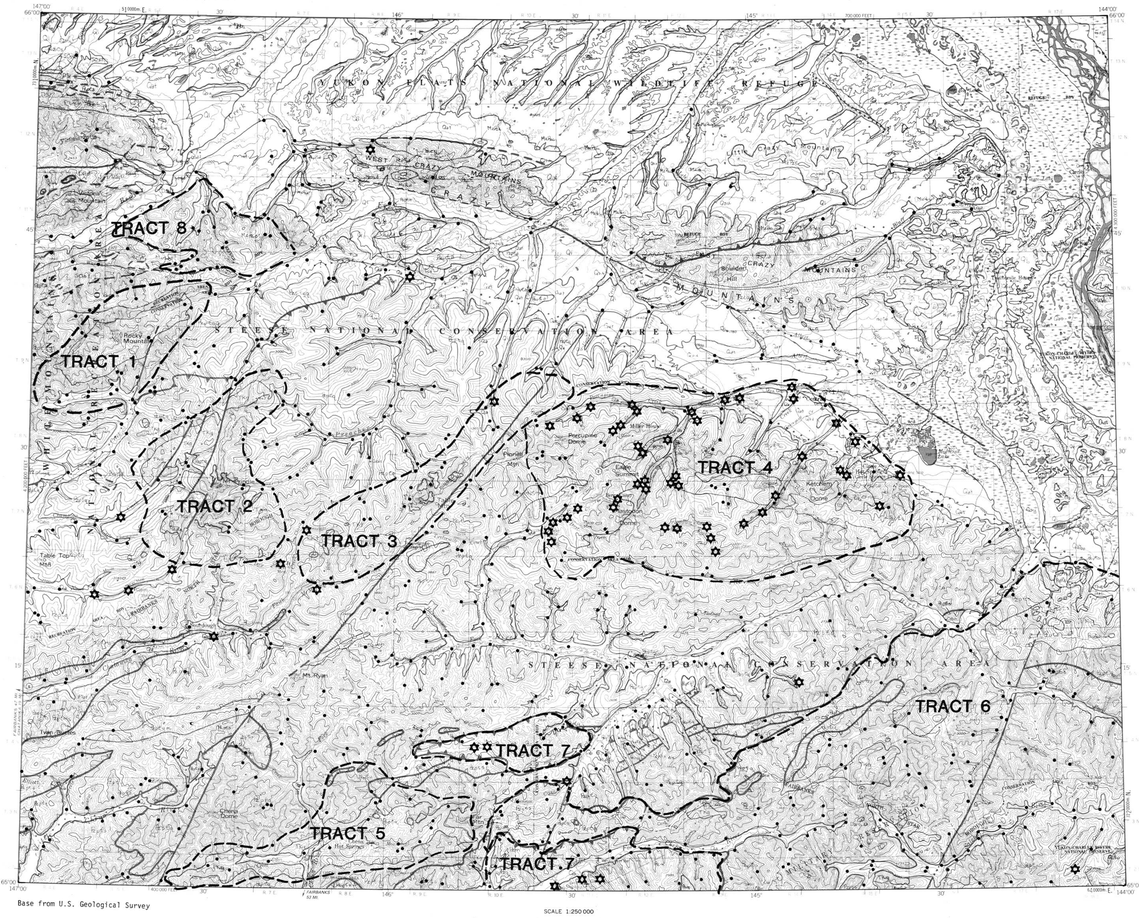
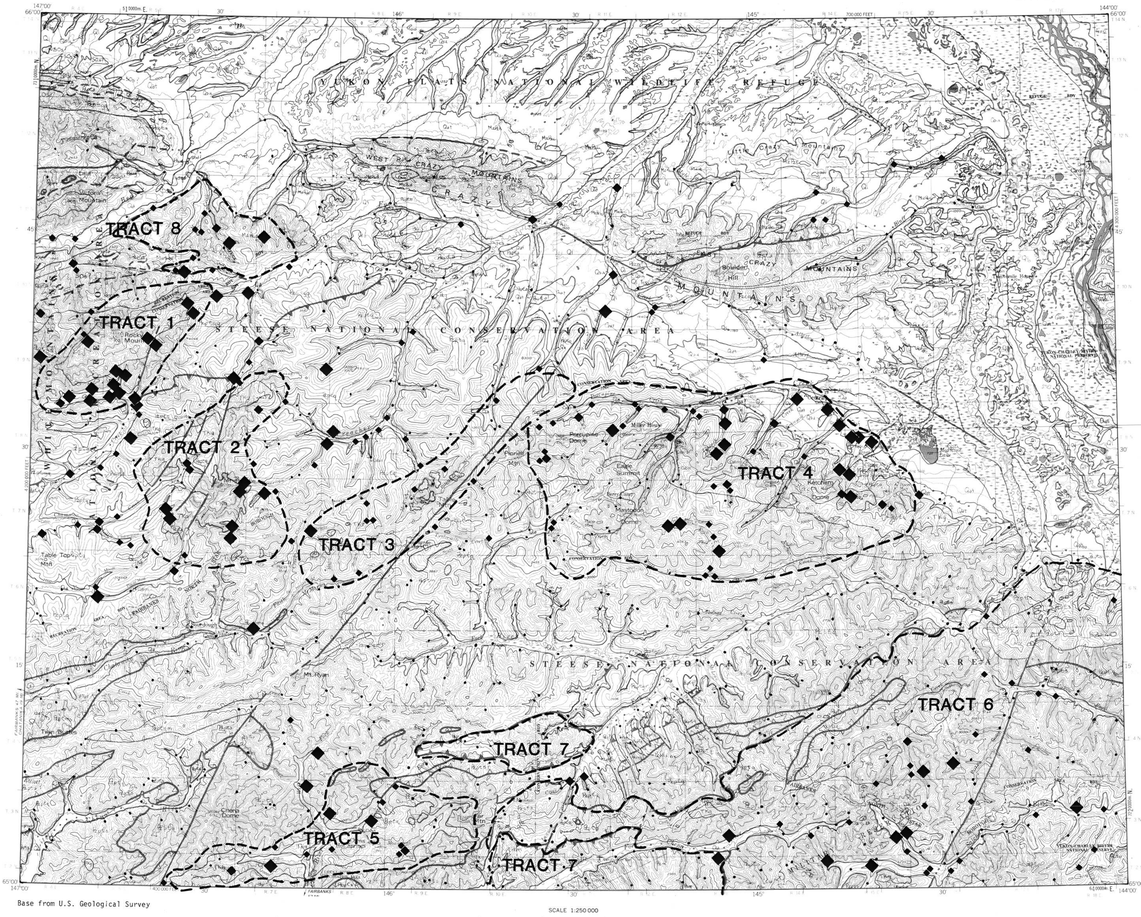
DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY

FOLIO OF THE CIRCLE QUADRANGLE, ALASKA
OPEN-FILE RERORT 83-170-F-H
PLATE 1 OF 6



MAP F-1 MAP SHOWING DISTRIBUTION OF GOLD



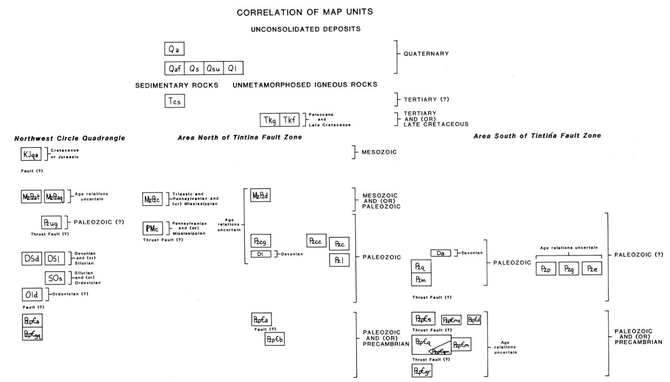
MAP F-2 MAP SHOWING DISTRIBUTION OF CASSITERITE

EXPLANATION OF SYMBOLS

gold

sample site (mineral not observed)

CORRELATION OF MAP UNITS



MAP SYMBOLS

Contact--Approximately located, and inferred

Fault--Dashed where existence or kind of fault uncertain or where approximately located; dotted beneath covering deposits; U, upthrown side; D, downthrown side

Thrust fault--Postulated; dotted beneath covering deposits

Prometamorphic thrust fault--Postulated; predates major regional metamorphism; dotted beneath covering deposits

Geology from Foster and others, 1983, U.S. Geological Survey Open-File Report 83-170-A

DEFINITION OF MAP UNITS

UNCONSOLIDATED DEPOSITS

Qa	Alluvium and colluvium
Qaf	Alluvial fan deposits
Qs	Silt and peat
Qsu	Silt, undifferentiated and organic material
Qg	Gravel
Ql	Loess

SEDIMENTARY ROCKS

Tcs	Conglomerate and sandstone

UNMETAMORPHOSED IGNEOUS ROCKS

Tkg	Granite
Tkf	Felsic igneous rock

NORTHWEST CIRCLE QUADRANGLE

Kjqs	Quartzite, argillite, conglomerate, and hornfels
MzPzsf	Argillite, tuff, quartzite, and conglomerate
MzPzsq	Argillite and quartzite
PzUg	Ultramafic and mafic rocks and greenstone
DSd	Dolomite and argillite
DSl	Limestone, dolomite, and shale
SOs	Siltstone, dolomite, chert, and mafic igneous rocks
Old	Livengood Dome(?) Chert
PzrCa	Argillite, grit, and quartzite
PzrCgn	Grit, quartzite, and argillite

AREA NORTH OF TINTINA FAULT ZONE

MzPzc	Circle Volcanics and associated rocks
PMc	Chert, argillite, and quartzite
MzTrJd	Diorite
Pzcg	Chert pebble conglomerate
Pzcc	Chert, conglomerate, and limestone
Pzc	Chert and argillite
Dl	Limestone
Dsl	Limestone and chert
DSgrCa	Argillite, grit, and quartzite
PzgCh	Basalt and limestone

AREA SOUTH OF TINTINA FAULT ZONE

Da	Augen gneiss
Pzs	Quartzite, meta-argillite and phyllite
Pzm	Phyllite, calcareous phyllite, and marble
PzgCs	Pelitic schist
PzgCma	Garnet-muscovite schist
PzgCd	Dolomite and marble
PzgCa	Quartzite and quartzitic schists (includes magnetic chlorite schist subunit (PzgCgn))
PzgCm	Mafic schist
PzgCgn	Grit and quartzite
	Ultramafic, Mafic, and Eclogitic Rocks
Pzp	Serpentinized peridotite
Pzg	Greenstones
Pze	Eclogite

EXPLANATION OF SYMBOLS

CASSITERITE

trace to 0.9 percent

1 to 9.9 percent

10 percent or greater

sample site (mineral not observed)

Volume percent determined by visual estimation of nonmagnetic heavy-mineral fraction.

MINERALOGICAL MAPS SHOWING DISTRIBUTION OF GOLD AND CASSITERITE IN THE NONMAGNETIC HEAVY-MINERAL FRACTION OF STREAM SEDIMENT, CIRCLE QUADRANGLE, ALASKA

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This map is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature