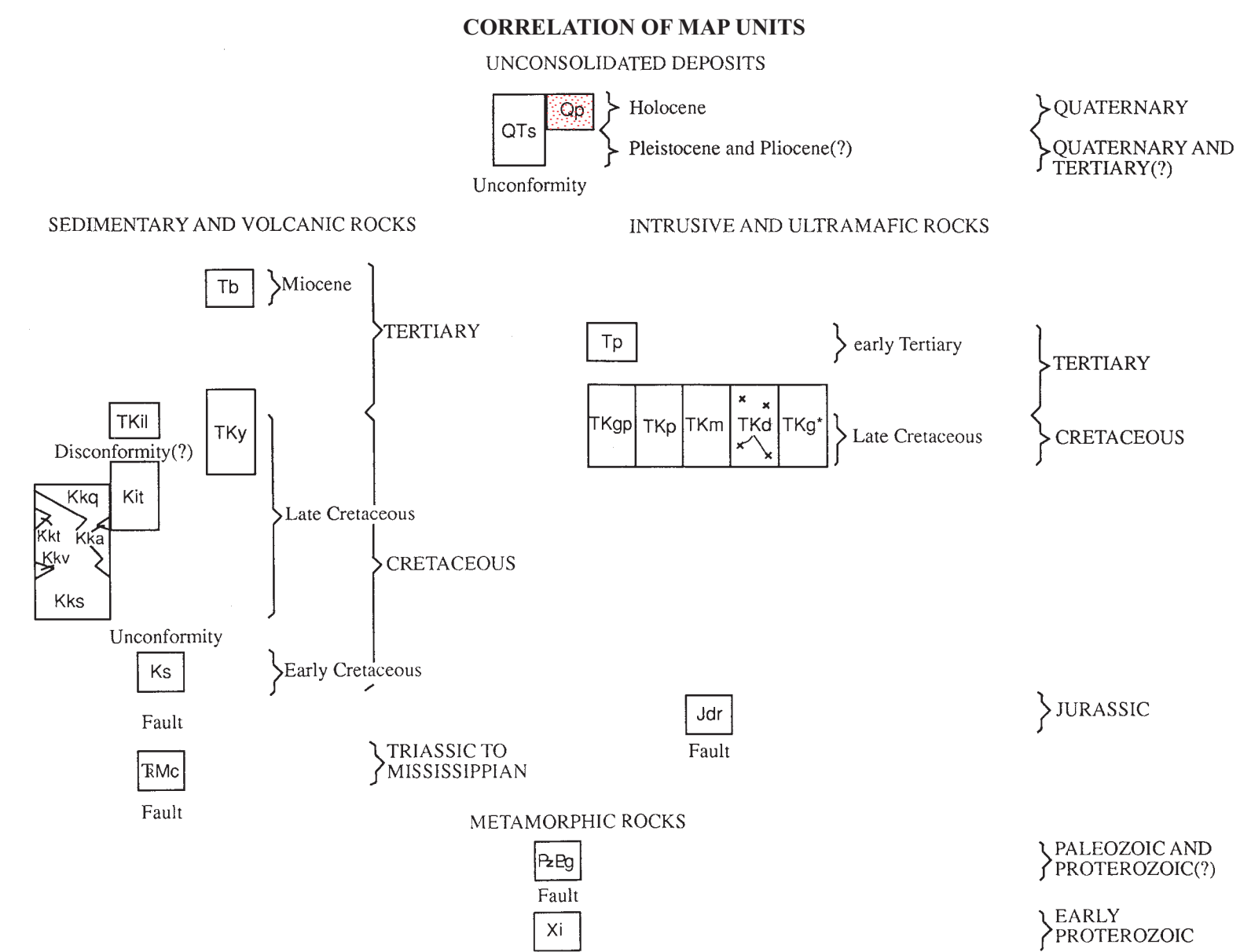
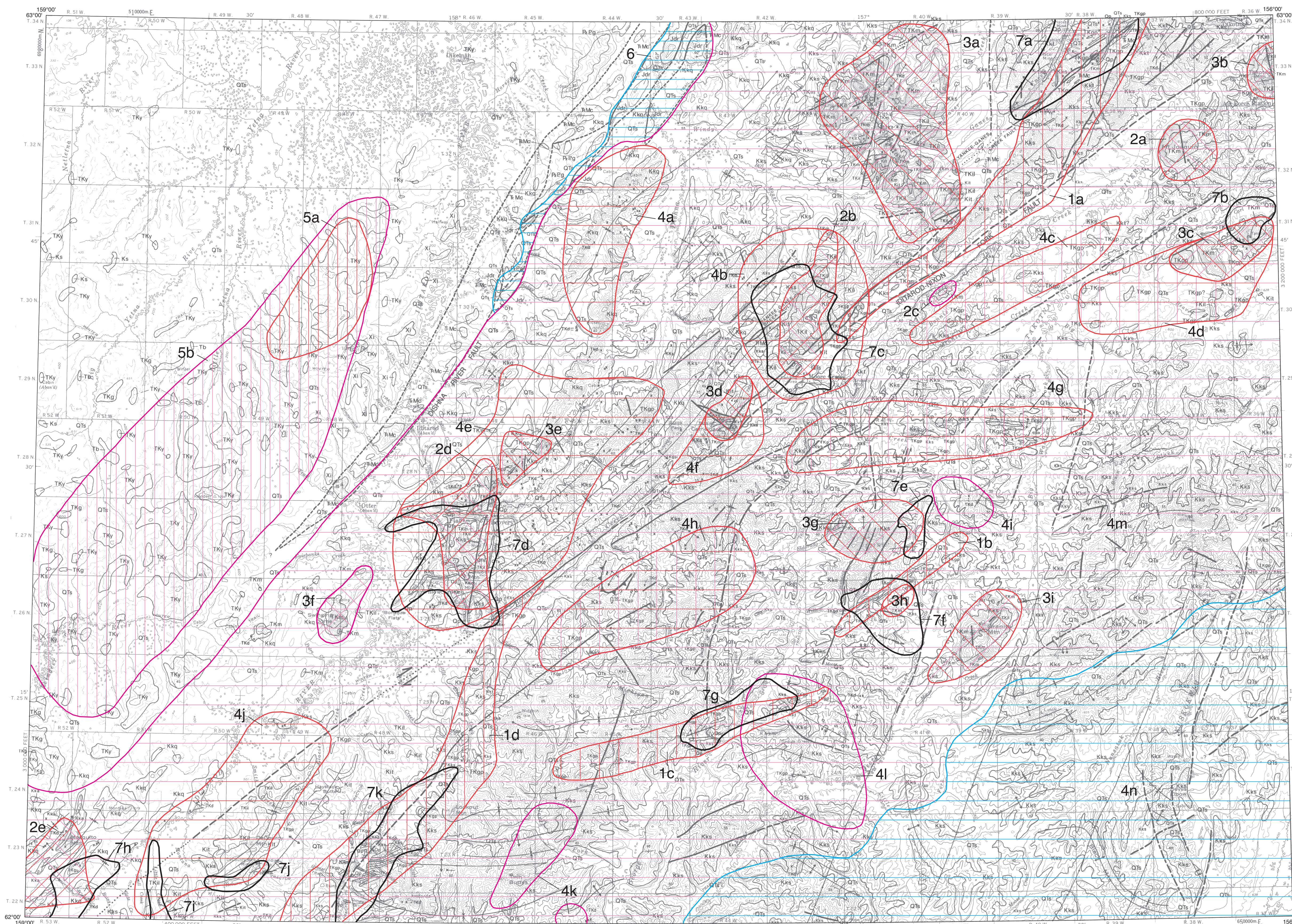


A. Location of Mines, Prospects, Occurrences, and Rock Geochemical Anomalies



- LIST OF MAP UNITS**
(For complete description of map units, see Miller and Bundtzen, 1994)
- UNCONSOLIDATED DEPOSITS**
- Qp Placer mine tailings (Holocene)
 - Qts Surficial deposits (Holocene to Pliocene?)
- SEDIMENTARY AND VOLCANIC ROCKS**
- Tb Basaltic andesite (Miocene)
 - TKy Volcanic rocks of Ytnu River area (Tertiary and Late Cretaceous)
 - TKS Andesite to basaltic subaerial lava flows and mafic volcanic breccia (Tertiary and Late Cretaceous)
 - KIt Tuff, volcanic breccia, altered andesite to dacitic flows, and volcanoclastic sandstone (Late Cretaceous)
 - Kkq Quaternary sandstone and siltstone (Late Cretaceous; Campanian to Cenomanian?)
 - Kks Sandstone, siltstone, shale, and conglomerate (Late Cretaceous; Campanian? to Cenomanian)
 - KkV Volcanic tuff and agglomerate (Late Cretaceous)
 - KkA Altered andesite flows, tuffs, and sills? (Late Cretaceous; Campanian)
 - KkV Volcanic flows and tuff (Late Cretaceous)
 - Ks Sandstone and siltstone (Early Cretaceous)
 - KMc Chert, volcanic rocks, metasediments, and limestone (Triassic to Mississippian)
- INTRUSIVE AND ULTRAMAFIC ROCKS**
- Tp Porphyritic granodiorite plug (early Tertiary)
 - TKgp Hypabyssal granite porphyry dikes, sills, and plugs (Tertiary and Late Cretaceous)
 - TKp Plutonic dacite-andesite plugs (Tertiary and Late Cretaceous)
 - TKm Monzonite, quartz monzonite, syenite, granodiorite, granite, and minor lamprophyre (Tertiary and Late Cretaceous)
 - TKG Altered intermediate to mafic dikes (Tertiary and Late Cretaceous)
 - TKg Alkali granite (Tertiary and Cretaceous)
 - Jp Dismal River mafic and ultramafic rocks (Jurassic)
- METAMORPHIC ROCKS**
- Rp Greenschist, pelitic schist, and metagranite (Paleozoic and Proterozoic?)
 - Xi Idomu Complex (Early Proterozoic)
- Structural Features:**
- Contact - Approximately located
 - Fault - Approximately located. Dashed where inferred, dotted where concealed, queried where uncertain. Arrows indicate relative movement.
 - Thrust fault - Approximately located; queried where uncertain. Sawtooth on upper plate.
 - Lineament - Air photo interpretation; queried where uncertain.
 - Folds - Showing trace of axial surface and direction of plunge, where known.
 - F1 anticline
 - F1 syncline
 - F1 overturned anticline
 - F1 overturned syncline
 - F2 fold
 - Strike and dip of beds or flows
 - Inclined - Ball indicates top known
 - Overturned
 - Strike and dip of inclined foliation
- 1d** Locality number - Keyed to table 1 in accompanying pamphlet
1d Mineral deposit resource area - Keyed to table 5 in accompanying pamphlet



B. Mineral Resource Areas Based on Seven Deposit Models

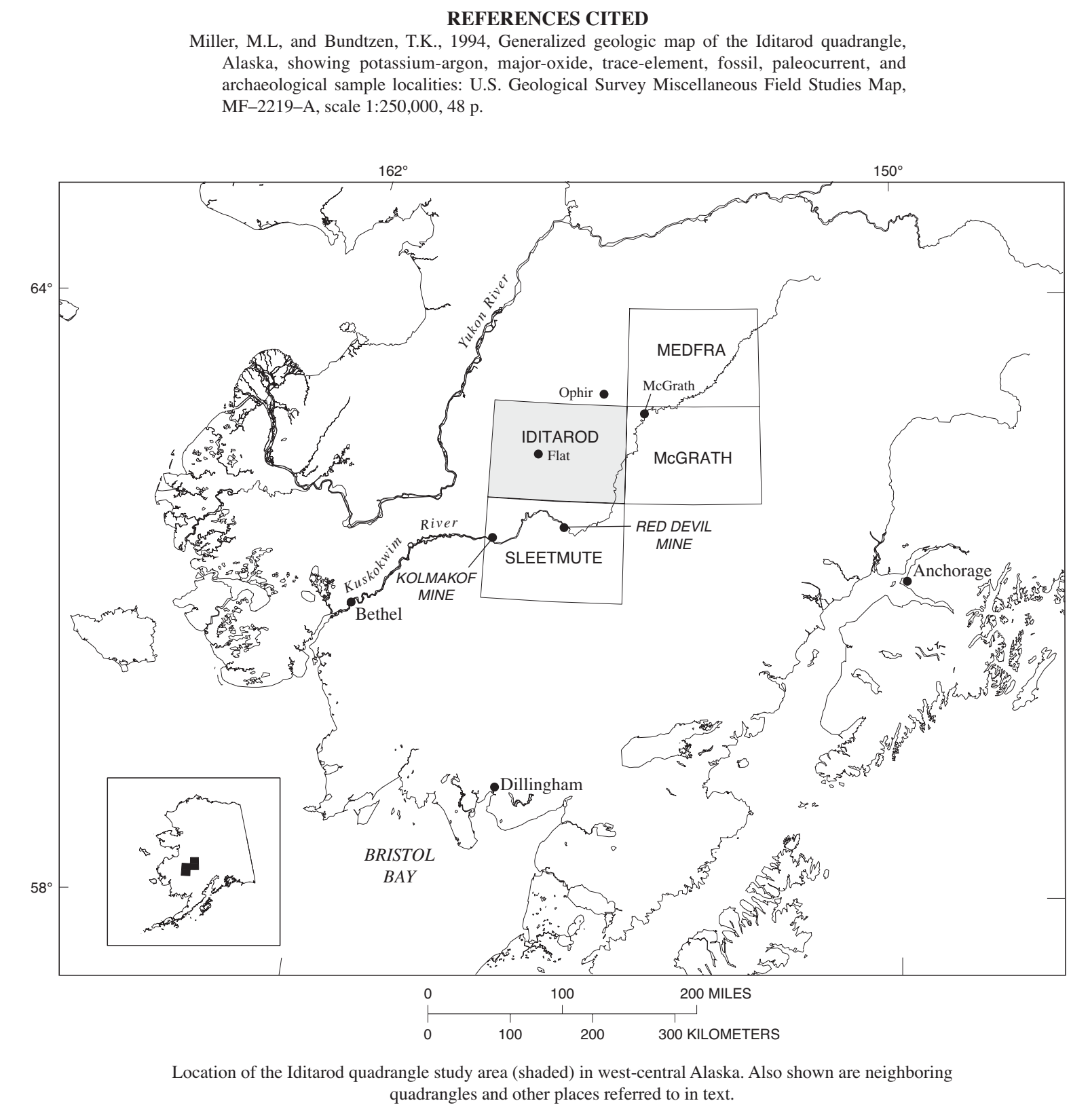
Mineral Resource Assessment of the Iditarod Quadrangle, West-Central Alaska

By Marti L. Miller¹, Thomas K. Bundtzen², and John E. Gray³
2005

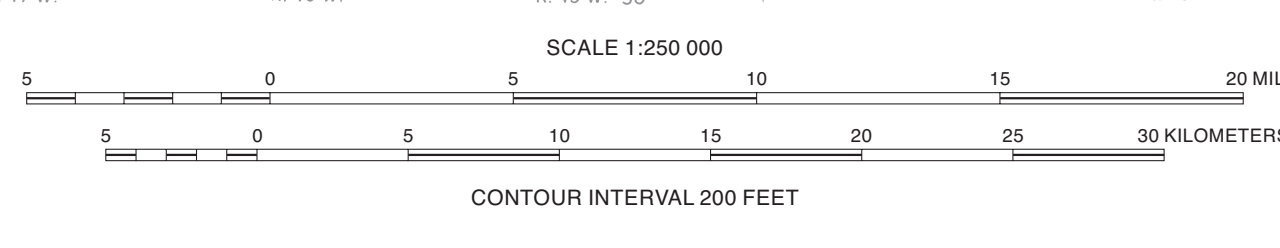
MINERAL DEPOSIT TYPE	Mine	Prospect	Occurrence	Rock geochemical anomaly
Model 1. Peraluminous granite-porphyry-hosted gold-polymetallic	●	○	◇	+
Model 2. Plutonic-hosted copper-gold-polymetallic stockwork and vein	■	□	◇	+
Model 3. Plutonic-related, boron-enriched, silver-in-polymetallic	▲	△	◇	+
Model 4. Epithermal mercury-antimony (gold)	▲	△	◇	+
Model 5. Volcanic-hosted precious and other metals	●	○	◇	+
Model 6. Mafic-ultramafic related Cu-Ni-Co	●	○	◇	+
Model 7. Heavy-mineral placer	●	○	◇	+
Coal	⊕	⊕	⊕	⊕
Uncertain	×	×	×	×

MINERAL MODEL	MINERAL DEPOSIT MODEL	MINERAL RESOURCE AREAS*		
		High potential	Moderate potential	Low potential
Model 1.	Peraluminous granite-porphyry-hosted gold-polymetallic	Red outline	Pink outline	Blue outline
Model 2.	Plutonic-hosted copper-gold-polymetallic stockwork and vein	Red outline	Pink outline	Blue outline
Model 3.	Plutonic-related, boron-enriched, silver-in-polymetallic	Red outline	Pink outline	Blue outline
Model 4.	Epithermal mercury-antimony (gold)	Red outline	Pink outline	Blue outline
Model 5.	Volcanic-hosted precious and other metals	Red outline	Pink outline	Blue outline
Model 6.	Mafic-ultramafic related Cu-Ni-Co	Red outline	Pink outline	Blue outline
Model 7.	Heavy-mineral placer	Red outline	Pink outline	Blue outline

*See accompanying pamphlet for description of mineral resource areas



Base from U.S. Geological Survey, 1956 Universal Transverse Mercator projection



Geology from Miller and Bundtzen, 1994 Edited by Theresa Ni; cartography by Darlene A. Ryan Manuscript approved for publication September 4, 2004

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