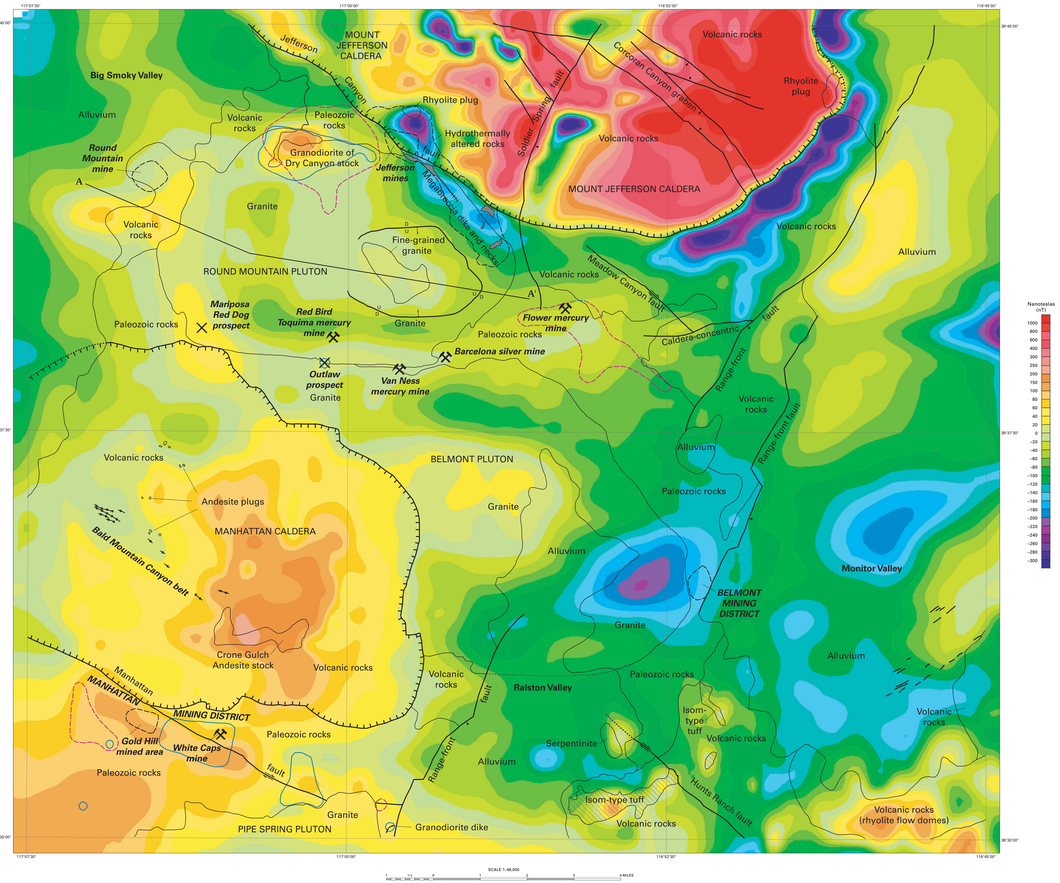


MAP A. MAGNETIC ANOMALY MAP (REDUCED TO NORTH POLE) OF THE SOUTHERN TOQUIMA RANGE, NYE COUNTY, NEVADA, SHOWING PRINCIPAL GEOLOGIC AND STRUCTURAL FEATURES

EXPLANATION FOR MAPS A AND B

Contact—Dotted where projected beneath alluvium

Fault—Dotted where projected beneath alluvium. Bar and ball on downthrown side. Arrow shows dip; U, upthrown; D, downthrown. Opposed arrows show strike-slip movement

Caldera margin—Dotted where projected beneath alluvium

Quartz vein

Dike

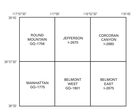
Megabreccia dike and rock

Area of outcrop of ignimbrite ash-flow tuff—Minor areas not shown

Outline of labeled mined or altered rock

Outline of nonsulfur occurrences

Outline of significant boron anomaly



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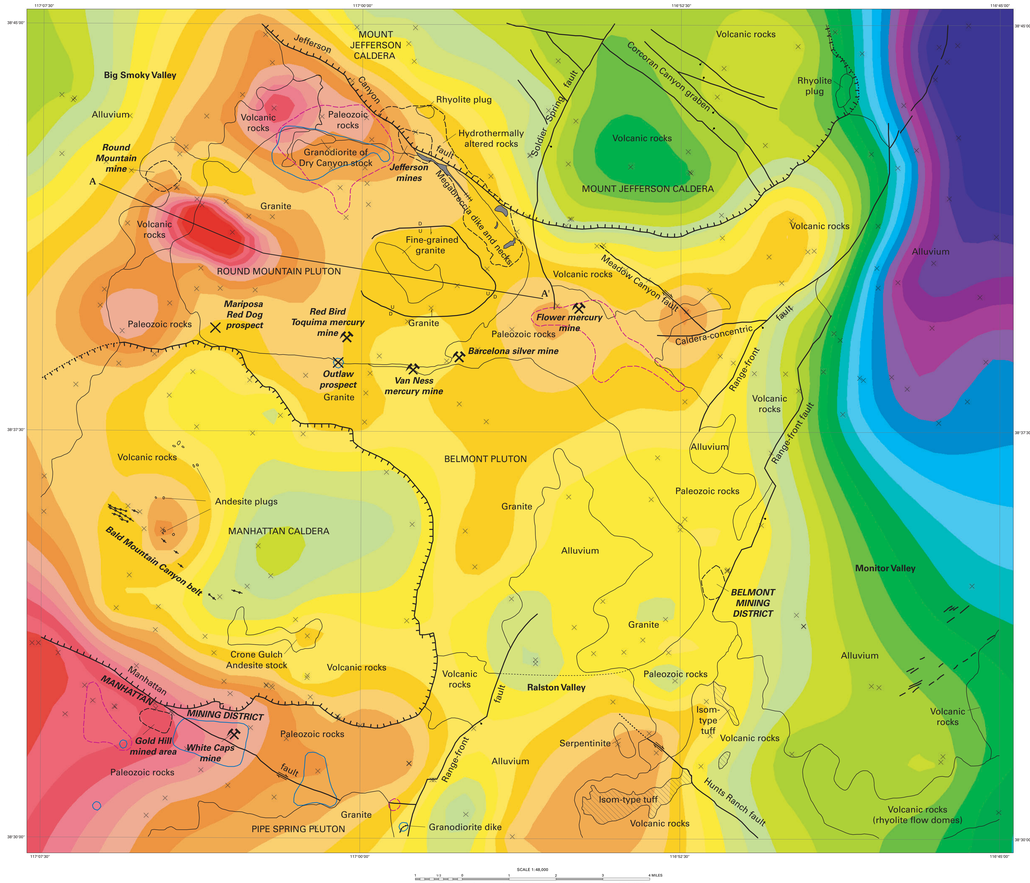
MAP LOCATION



MAP B. ISOSTATIC RESIDUAL GRAVITY ANOMALY MAP OF THE SOUTHERN TOQUIMA RANGE, NYE COUNTY, NEVADA, SHOWING PRINCIPAL GEOLOGIC AND STRUCTURAL FEATURES

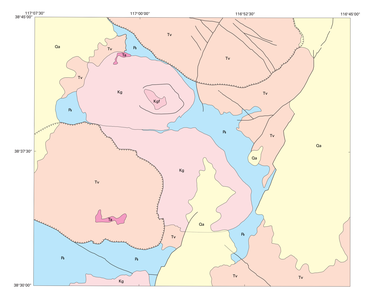


Figure 1. Generalized geologic map of the southern Toquima Range, Nye County, Nevada. Geologic linework from Maps A and B. Qa, Quaternary alluvium. Ta, Tertiary andesite; Tv, Tertiary volcanic rocks; Kgf, Cretaceous fine-grained granite; Kg, Cretaceous granite; Pz, Paleozoic sedimentary-metamorphic rocks

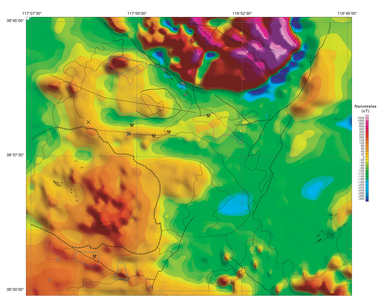


Figure 2. Shaded relief magnetic anomaly map (reduced to north pole) illuminated from the northeast, southern Toquima Range, Nye County, Nevada. Geologic linework from Maps A and B.

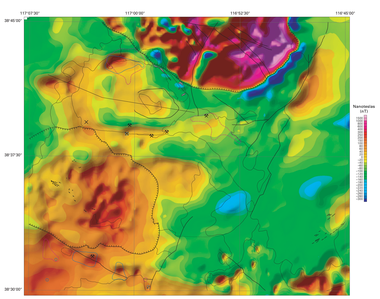


Figure 3. Shaded relief magnetic anomaly map (reduced to north pole) illuminated from the southeast, southern Toquima Range, Nye County, Nevada. Geologic linework from Maps A and B.

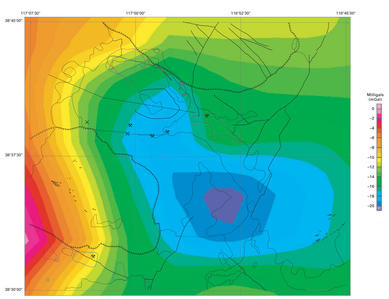


Figure 4. Gravity map of basement rocks underlying Quaternary sediments and Tertiary volcanic rocks, southern Toquima Range, Nye County, Nevada (from Saltus and Jachens, 1995). Geologic linework from Maps A and B.

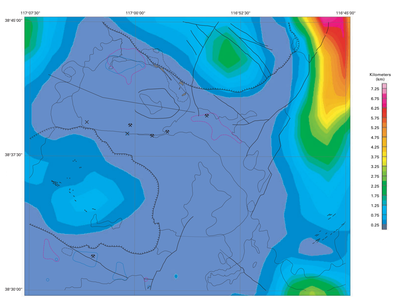
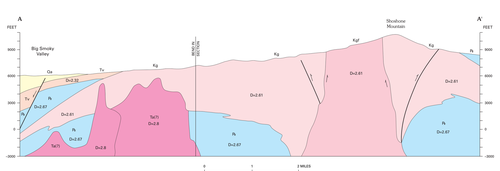


Figure 5. Basin thickness map (depth to Cretaceous granite plutons, Paleozoic marine sedimentary rocks, and Precambrian?) rocks), southern Toquima Range, Nye County, Nevada (from Saltus and Jachens, 1995). Geologic linework from Maps A and B.



EXPLANATION

Qa	Quaternary alluvium
Ta(?)	Tertiary andesite(?)
Tv	Tertiary volcanic rocks
Kgf	Cretaceous fine-grained granite
Kg	Cretaceous granite
Pz	Paleozoic sedimentary-metamorphic rocks

Contact—Arrow shows relative movement

Fault—Arrow shows relative movement

D=2.61 **Density of rock unit in grams per cubic centimeter**

Figure 6. Hypothetical configuration of subsurface geologic units along cross section A–A'. Line of section shown on Maps A and B.

GEOLOGIC INSIGHTS AND SUGGESTIONS ON MINERAL POTENTIAL BASED ON ANALYSES OF GEOPHYSICAL DATA OF THE SOUTHERN TOQUIMA RANGE, NYE COUNTY, NEVADA

By
D.R. Shawe, R.P. Kucks, and T.G. Hildenbrand

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