

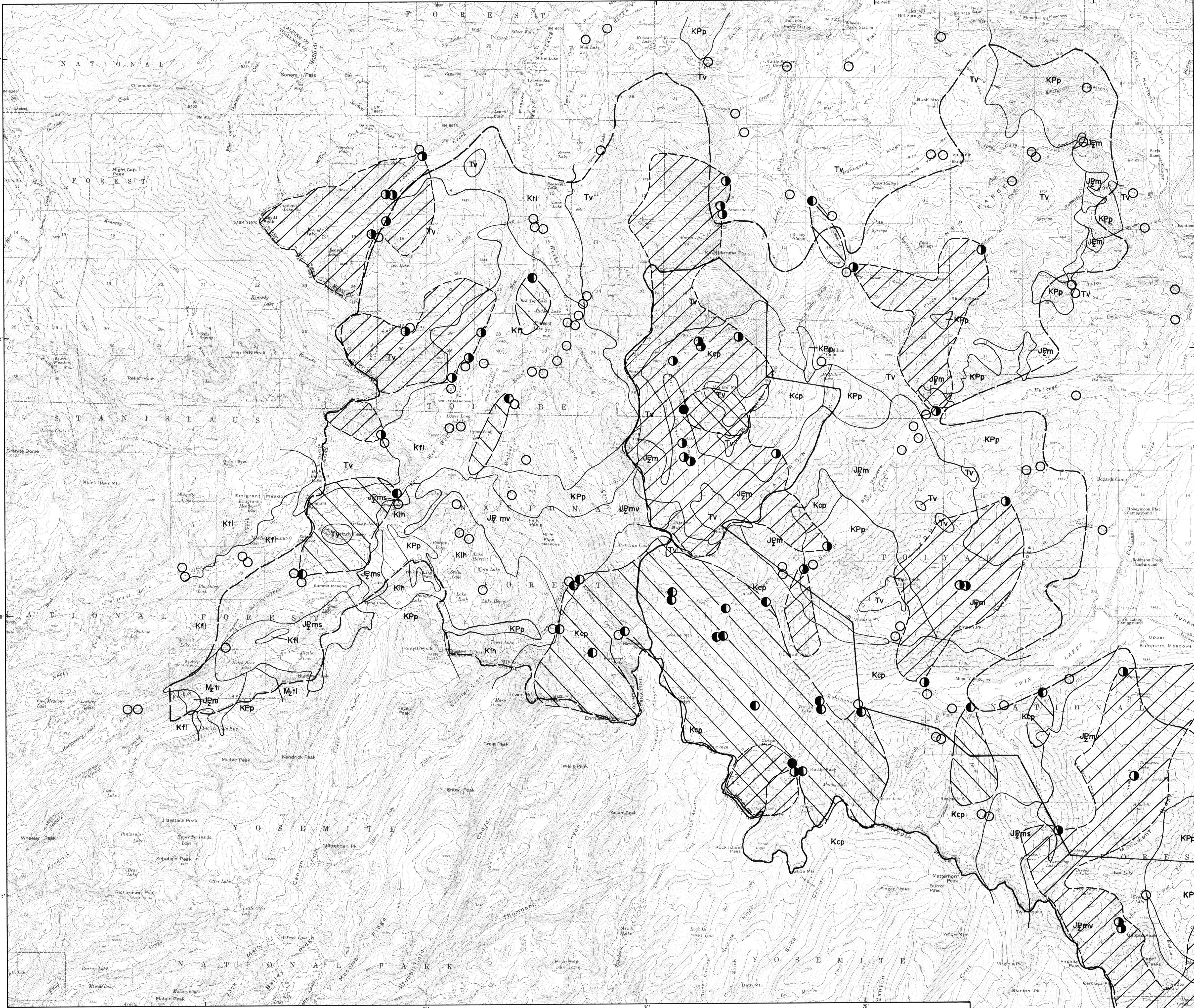


Figure 1.--Frequency diagram for thorium in samples of nonmagnetic heavy-mineral concentrate.
[N = Not detected at the lower limit of determination shown in parentheses]

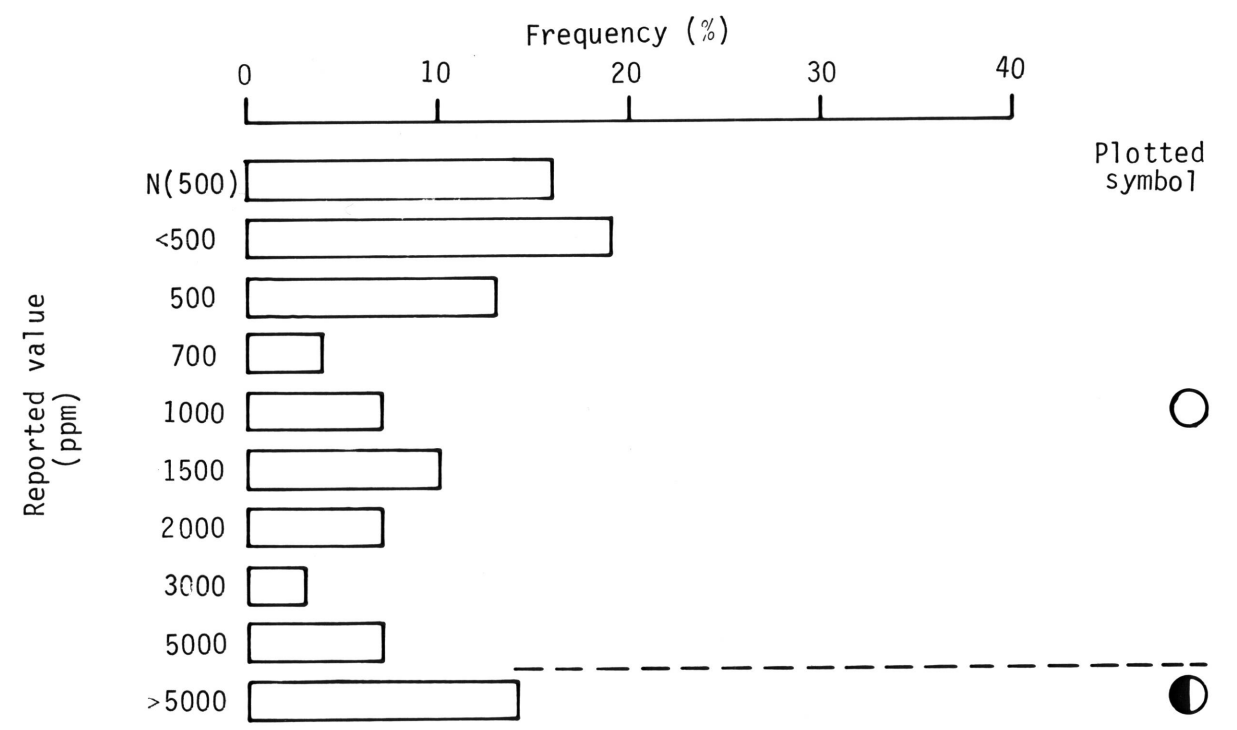
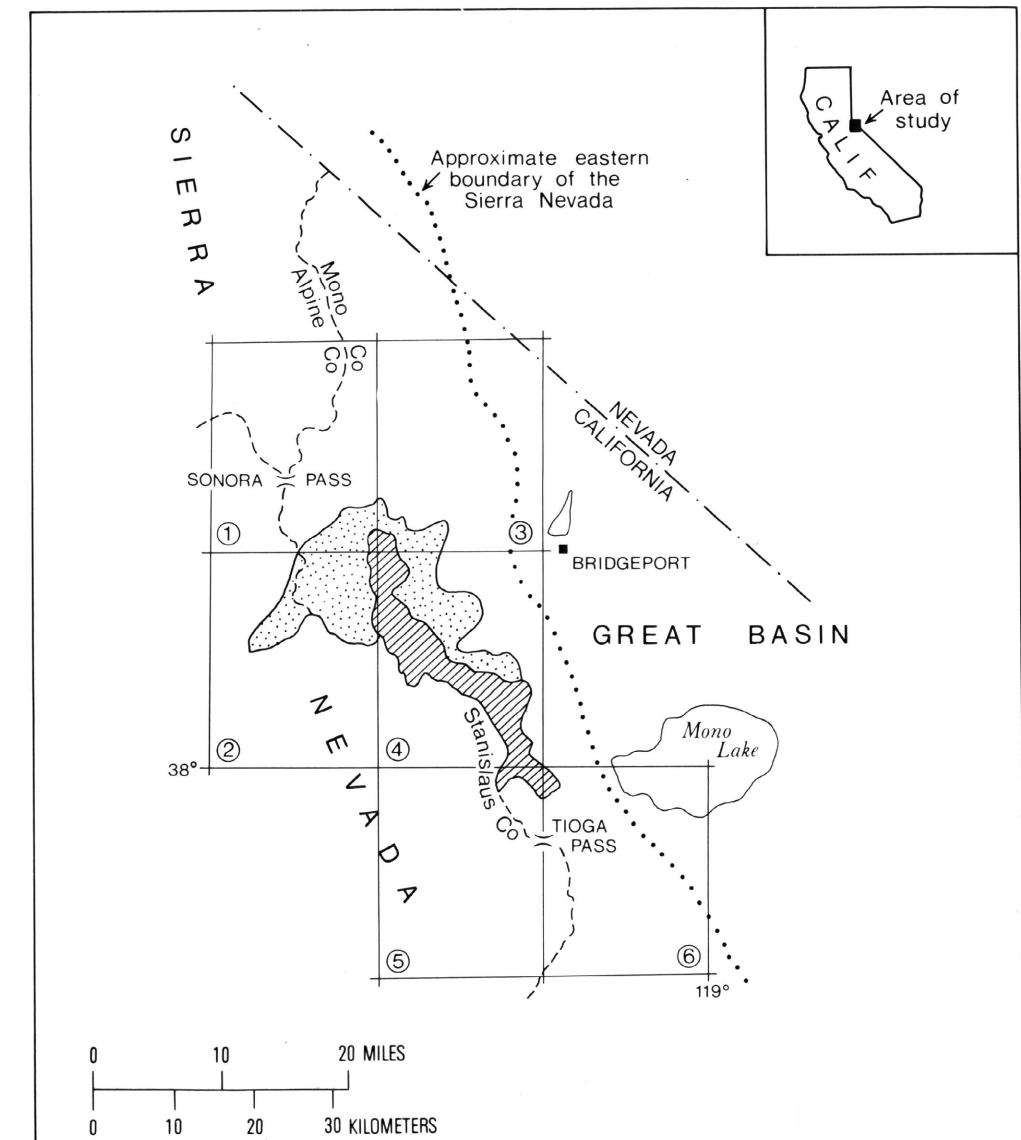
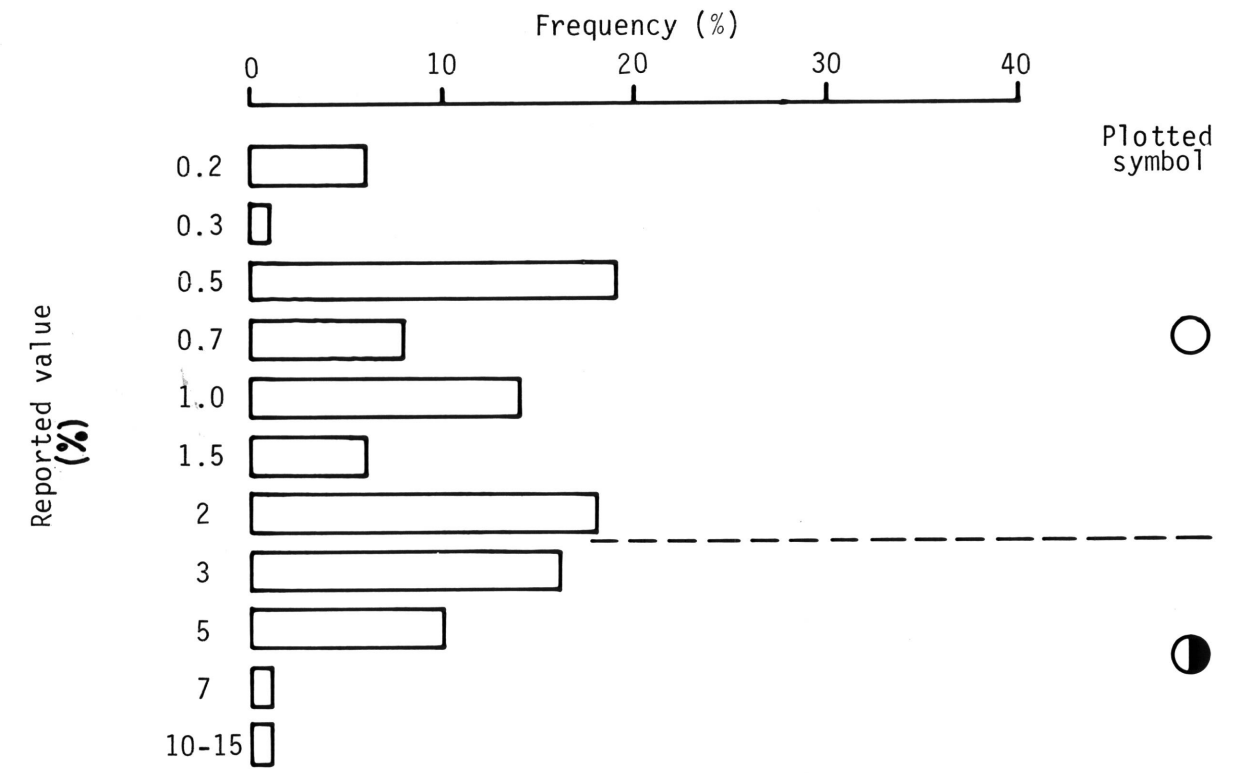


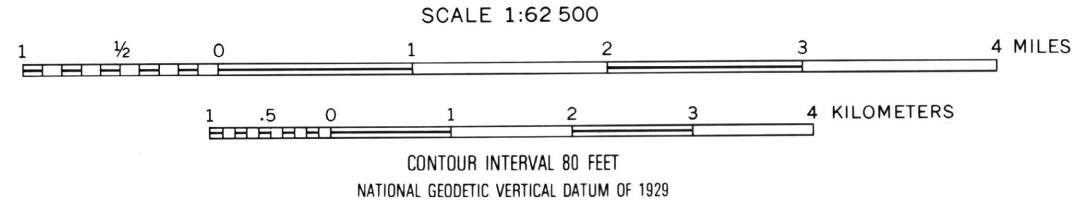
Figure 2.--Frequency diagram for iron in samples of nonmagnetic heavy-mineral concentrate



Base from U.S. Geological Survey
Mono Craters, 1953; Fales Hot Springs,
Matterhorn Peak, Sonora Pass,
Tower Peak, Tuolumne Meadows, 1956;
Bodie, 1958

- LIST OF MAP UNITS
- Tv VOLCANIC FLOWS, BRECCIAS, AND LAHARS VARYING IN COMPOSITION FROM RHYOLITE TO BASALT (Tertiary)--Includes Disaster Peak Formation of Slemmons (1966), Stanislaus Group, Relief Peak Formation of Slemmons (1966), Valley Springs Formation, and intrusive andesite
 - Kcp CATHEDRAL PEAK GRANODIORITE (Cretaceous)
 - Kt1 GRANODIORITE OF TOPAZ LAKE (Cretaceous)
 - Kf1 GRANODIORITE OF FREMONT LAKE (Cretaceous)
 - Klh GRANODIORITE OF LAKE HARRIET (Cretaceous)
 - M₂L1 GABBRO OF TWIN LAKES (Mesozoic)
 - KPp PLUTONIC ROCKS, UNDIVIDED, OF PREDOMINANTLY GRANITIC TO GRANODIORITIC COMPOSITION (Cretaceous to Permian(?))--Includes granite of Eagle Creek, granodiorite of Buckeye Creek, granodiorite of Green Creek, granodiorite of Long Canyon, alaskite of Grace Meadow, granite of upper Twin Lakes, granodiorite of Bond Pass, granodiorite of Mono Dome, granite of Dorothy Lake, granodiorite of Log Cabin Creek, granite of Devils Gate, gabbro of Mount Warren, and quartz diorite of Odell Lake
 - JP₂ms METASEDIMENTARY ROCKS, UNDIVIDED (Jurassic to Paleozoic)--Represent roof-pendant material in the Sierra Nevada batholith
 - JP₂mv METAVOLCANIC AND METAPLUTONIC ROCKS, UNDIVIDED (Jurassic to Paleozoic)--Represent roof-pendant material in the Sierra Nevada batholith
 - JP₂m METASEDIMENTARY, METAVOLCANIC, AND METAPLUTONIC ROCKS, UNDIVIDED (Jurassic to Paleozoic)--Represent roof-pendant material in the Sierra Nevada batholith

- EXPLANATION
- Approximate boundary of the Hoover Wilderness
 - Approximate boundary of the adjacent study area
 - Geologic contact
 - Sample site, concentrate sample only contains anomalous thorium
 - Sample site, concentrate sample only contains anomalous iron
 - Sample site, both elements anomalous
 - Sample site, neither element anomalous
 - Approximate limit of drainage basin(s) for concentrate samples containing anomalous thorium
 - Approximate limit of drainage basin(s) for concentrate samples containing anomalous iron



SHEET 11.--ANOMALIES FOR THORIUM AND IRON IN SAMPLES CONCENTRATE

GEOCHEMICAL ELEMENT MAPS OF THE HOOVER WILDERNESS AND ADJACENT STUDY AREA, MONO AND TUOLUMNE COUNTIES, CALIFORNIA

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1983

Geology by W.J. Keith and
J.F. Seitz, 1978, 1979