Nasse Exposition: Diese Proben (Abb. 2a) sind von Masseabnahme gekennzeichnet. Chemische Analysen erbrachten stark streuende Ergebnisse aufgrund unterschiedlich starker Laugungseffekte durch Regeneinwirkung. Die Materialverluste ergaben bei einer Normierung auf 1 m Regen regionspezifische Abtragsraten zwischen 6 und 25 μm. In Abb. 2b sind die jeweiligen Teilprozesse dargestellt, wobei bei der Berechnung der Regenlöslichkeit von der Gleichgewichtslöslichkeit von 14 g Kalzit/Liter H_2O bei 25° C ausgegangen wurde.

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EVOLUTION OF ORE MINERALS IN THE LAYERED GABBROIC INTRUSION IN THE MISCHO MOUNTAIN AREA BETWEEN SOFIAN-SHABESTAR AND MARAND EASTAZERBAIDJAN, IRAN

MODJTAHEDI, M.

Department of Geology, Faculty of Science, University of Tabriz, Iran.

The Kahar formation is exposed in more than 20 km^2 within the Mischo mountain area. Through the Kahar formation a basic magma was intruded and formed a layered gabbroic complex. This igneous complex caused a contact metamorphic event with hornfels sequences and with skarn bodies in the Kahar shales and in the older carbonate sediments.

The skarns contain normally epidote, hornblende, calcite, pyrite, magnetite, and chalcopyrite. There are some layeres within this complex with pyrogenetic ore minerals such as magnetite and ilmenite. XRF investigations from these rocks and from stream sediments indicate high amounts of Ti and Fe, and lesser contents of Cr and Cu. The contents of Ni and Mn are low. Granophyres and diabases are exposed at the top and the edge of the complex, they contain usually pyrite, hematite and chalcopyrite.

The layered complex was formed probably during carboniferous or silurian time. There are some differences between the investigated complex and ophiolites.
On the southern and western rim of the complex leuco-granites and leuco-rhyolite cutting through the Kahar formation are exposed. The main outcrops are in the area north of Shabestar.

The leucogranites contain chalcopyrite, malachite, azurite, galena, hematite, and baryte. These granites are similar in texture to Doran- and Mute-granite. The age relationship seems to be similar to the Doran-granite. The chalcopyrite is enriched in gold, one sample of the investigated ore minerals contains few percent of silver.