DESCRIPTIVE MODEL OF LIMASSOL FOREST Co-Ni

By Norman J Page

DESCRIPTION Irregular veins, pods and lenses associated with serpentinized peridotite and dunite or nearby country rocks.

GEOLOGICAL ENVIRONMENT

Rock Types Highly serpentinized dunite, harzburgite, pyroxenite; quartz-carbonate rocks.

Textures Sheared.

Age Range Paleozoic and Mesozoic.

Depositional Environment Faults, fractures associated with serpentinized ultramafic rocks of an ophiolite.

Tectonic Setting(s) Unstable, accreted terranes, near plate boundaries.

Associated Deposit Types Podiform chromite, Ni-laterite, Co-Ni-Cu ophiolite sulflde.

DEPOSIT DESCRIPTION

Mineralogy: Pyrhotite + pyrite ± pentlandite ± chalcopyrite ± vallerite ± loellingite ± niccolite ± maucherite ± skutterudite ± gersdorffite ± cobaltite ± magnetite ± pararammelsbergite.

Texture/Structure Irregular vein and fracture fillings.

Alteration Serpentinization and quartz-carbonate.

Ore Controls Serpentinized ultramafic rock, possible external source of arsenic (see fig. 99).

Geochemical Signature As, Co, Ni

EXAMPLES

Bou Azzer, MRCO (LeBlanc, 1981; LeBlanc and Bilaud, 1982)

Limmasol Forest, CYPS (Panayiotou, 1980)