Kena Gold Mountain Zone - Early Middle Jurassic Porphyry Au±Cu Mineralization, SEBC
James Logan, Gilles Lafortune and Linda Dandy

1 B.C. Geological Survey, 2 Natural Resources Canada CANMET-MMSL, 3 P&L Geological Services

INTRODUCTION

The Kena Gold deposit is a porphyry Au±Cu system that is located in the Kena mining area in southwestern British Columbia, Canada. The deposit is hosted by the Silver King Intrusive Suite, which is a porphyritic diorite that intrudes the Silver King Formation.

REGIONAL SETTING

The Kena Gold deposit is located in the Kena mining area, which is part of the southern Coast Belt in southwestern British Columbia.

SILVER KING INTRUSIVE SUITE

The Silver King Intrusive Suite is a porphyritic diorite that intrudes the Silver King Formation. The Silver King Intrusive Suite is characterized by the presence of porphyritic diorite that is associated with the Kena Gold deposit.

MINERAL DEPOSITS

The Kena Gold deposit is characterized by the presence of porphyry Au±Cu mineralization that is hosted by the Silver King Intrusive Suite. The deposit is characterized by the presence of quartz and sulfide minerals, including pyrite, chalcopyrite, and bornite.

GOLD DISTRIBUTION

The gold distribution in the Kena Gold deposit is characterized by the presence of disseminated gold that is associated with the sulfide minerals. The gold is hosted by quartz veins and is concentrated in the porphyritic diorite of the Silver King Intrusive Suite.

MINERALIZATION

The mineralization in the Kena Gold deposit is characterized by the presence of quartz and sulfide minerals. The sulfide minerals include pyrite, chalcopyrite, and bornite. The mineralization is hosted by quartz veins and is concentrated in the porphyritic diorite of the Silver King Intrusive Suite.

ALTERATION

The alteration in the Kena Gold deposit is characterized by the presence of sericite, chlorite, and carbonates. The alteration is associated with the mineralization and is concentrated in the porphyritic diorite of the Silver King Intrusive Suite.

OPTICAL AND ELECTRON MICROSCOPY

The optical and electron microscopy of the Kena Gold deposit shows the presence of fine-grained gold that is associated with the sulfide minerals. The gold is concentrated in the porphyritic diorite of the Silver King Intrusive Suite.

SUMMARY

The results of this study show that the Kena Gold deposit is a porphyry Au±Cu system that is hosted by the Silver King Intrusive Suite. The deposit is characterized by the presence of disseminated gold that is associated with the sulfide minerals. The mineralization is concentrated in the porphyritic diorite of the Silver King Intrusive Suite.

REFERENCES