

MEG - Wed. Feb. 6th

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Kena Property's Gold Mountain Zone - A New Gold Discovery in British Columbia

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Sultan
just option
Silver King
mine

~75

884518

The Kena Property, located in southeastern British Columbia, hosts bimodal gold mineralization consisting of both high grade bands and a unique, large, porphyry gold system. The gold mineralization is associated with lower Jurassic Rossland Group mafic volcanic flows and tuffs intruded by a mid Jurassic plagioclase porphyritic monzonite unit termed the Silver King intrusion. Both the volcanics and the Silver King intrusion have undergone post-emplacement deformation.

Silver King
73-180Ma

Historical work in the region concentrated on locating and testing disseminated gold mineralization in the volcanics using a deposit model for "conformable" gold deposits as described by Hoy and Dunne (1989).

Nelson
165Ma

In 2000 exploration work by Sultan extended an existing soil geochemistry grid from the volcanics into the Silver King intrusive, defining a large zone of highly anomalous gold mineralization in what is now termed the Gold Mountain Zone. The Gold Mountain Zone gold soil anomaly is presently 3.3 kilometres in length and from 700 to 1400 metres in width. Initial prospecting over the anomalous soil area returned numerous elevated gold values in rock chip and grab samples.

In November 2000, continuous chip samples from a series of trenches excavated in the Gold Mountain Zone "discovery area" showed broad zones of gold mineralization. A total trench length of 187 metres in six trenches averaged 1.43 g/t gold. The mineralization encountered by trenching is confined to the Silver King intrusive, and is blocky fractured, silicified and potassic flooded with 2-5% disseminated and fracture controlled pyrite. No additional sulphide minerals are present.

Due to the composition of the intrusive, an induced polarization geophysical survey was utilized to trace the extent of high resistivity (resulting from silica and K-spar flooding) and high chargeability (resulting from elevated sulphide content). The initial induced polarization survey showed chargeability and resistivity anomalies coincident with the gold soil geochemical anomaly throughout the length of the Gold Mountain Zone. A ground magnetometer survey showed that the "discovery area" has a low magnetic signature with a halo of higher magnetic response.

The high magnetic halo correlates well with the alteration zoning seen in the intrusive rocks. The core area exhibits intense potassium and silica alterations. The outer halo contains not only magnetite, but also classic propylitic alteration assemblages including enhanced epidote and chlorite, and hosts weak chalcopyrite and molybdenite. Pyrite is prominent in both the central core and the propylitic zone and more massive bands and patches often contain small tourmaline crystals.

Free gold grains found during petrographic studies show that the gold does not occur in a restrictive depositional environment. Gold grains up to 70 microns have been seen adjacent to ragged pyrite crystals in massive pyrite veinlets. Clusters of gold grains from 10 to 30 microns have been observed in recrystallized and foliated quartz veinlets. Within the volcanics, some very high-grade gold mineralization occurs as finely disseminated free gold grains as along an epidote rich band. Minor amounts of gold also occurs as inclusions in pyrite grains and along late fractures.

Two separate and distinct metallurgical tests conducted on the gold bearing intrusive rock indicate excellent recovery potential. The majority of the mineralization occurs as free gold grains, of which greater than 40 percent can be recovered by gravity methods. Recoveries of better than 90 percent can be obtained by weak cyanide leach. No deleterious elements (As, Sb, Hg, Cd, Pb, Bi) occur with the gold. The positive metallurgical results, combined with a potentially low stripping ratio and excellent infrastructure greatly enhances this project's chances for success.

Two distinct but overlapping gold targets have been identified in the Gold Mountain Zone. Diamond drilling to date has investigated the potential for both large low grade porphyry and high grade style mineralization. The gold porphyry system contains broad widths of lower grade gold mineralization, as for example in hole 01GM-05 which averaged 1.16 g/t gold over 134 metres. Very high grade gold mineralization occurs in several locations, as

for example in hole 01GM-08 which returned 172 g/t gold over 2 metres.

In 2002 Sultan plans to continue to drill test both styles of mineralization.

[OVER]

CONTRACT: - Otto Janat ~ 30 yrs.

- * Re-logging / re-^{1980s-} assaying of previous (1991) drilling
- * 2000: - Extend existing soil grid from volcs. into intrusion.

- Follow-up prospecting = anomalous Au
- Trenching = 'DISCOVERY' of Au assoc. with mid-Jurassic Plagioclase porphyritic monzonite into lower Jur. Rossland Gp.

⇒ new Gold Porphyry System (Intrusion-related)

- IP survey = high resistivity (Si⁺/k-spar) + chargeability (Pb⁺)
- 'Coincident' geol./geochem/geophys.
- Petrographic studies → ID ~~free~~ gold grains.
- Prelim. 'metallurgy' - positive
- low stripping ratio
- excellent infrastructure

↳ Bimodal
[High grade / bulk make]

→ Nelson-Salmo potential.

Financing - sustained - Frank Lang, Art Troup + 'youthful' gp.

[OVER]