

Sulphurets
(Aug 93)

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* Newhawk Gold Mines Sulphurets Bruce side (104B193) exploration program was visited with Tom Schroeter on Aug 3-5. Dave Visagie heads a party of 18. Our guides were Steve Roach (Gossan Hill), Margaret McPherson (Snowfields), Brian Malahoff (Galena Hill) and Bruce Hardy (SG). Current objective is to locate a small, near-surface high grade tonnage (exact target is confidential but probably less than 100,000 tons) to augment 826,000 tonnes at 0.45 opt Au and 18.8 opt Ag in the West Zone and thereby achieve sufficient reserves for production. The aim is to establish a mill on site although a study was completed last year to ship ore to the Premier mill. Road construction via the Knipple glacier to the Granduc road is estimated at \$9 million. A \$1 million flotation circuit at Premier would be necessary to recover Bruce side's high grade silver. All zones being explored by Newhawk have potential for high grade gold-silver except the bulk tonnage gold target in the Snowfields zone. Snowfields is being drill tested at the urging of Homestake who have an interest in the project through Granduc Mines.

Snowfields (104B179) is an immense quartz-sericite-pyrite (QSP) alteration zone and gossan, 1500 X 1200 meters in plan. Sparse moly occurs in a quartz vein stockwork throughout the altered zone and chalcopyrite occurs in later(?) quartz-calcite veins, but neither are related to gold. The gold zone comprises 8 million tons at 0.08 opt Au inferred from surface sampling and sparse drilling carried out in the 1980's by Esso. The gold zone is inferred to be a gently north dipping 75 meters thick zone within the large gossan. The Blue Fault (noted in drill core) is the only flat structure. No mineralogic or chemical correlation with gold has been determined. Altered rocks outside the gold zone are completely similar to gold bearing QSP. Drill holes up to 1400 feet deep are aimed to test for high grade "roots" to the low grade gold zone.

Gossan Hill and **Galena Hill** zones are vein and stockworks each comprised of up to eight parallel, en echelon, variably mineralized structures. In the SG zone mineralized structures converge and splay, best gold grade occurs where where two structures converge. All zones are enveloped by sericite and K-spar alteration that is sheared. The gross trend of the mineralized belt is north-south but individual mineralized shears all trend northeast or east-west. SG zone drilling has been disappointing. Intercepts in shallow holes range from 1-4 meters grading 0.1-0.4 opt Au. A deep hole did not return significant results. **Galena Hill** has returned higher grades but correlation (and continuity) of assay intercepts with veins/structures on surface appears to be a problem. Follow-up drilling on Galena Hill is expected. Drilling had not begun on Gossan Hill by August 5 but there are subsequent rumours of good results.

*Premier Mine was visited on Aug 11. Underground mining continues to be profitable. Visible gold has been encountered in the Kansas raise at SB (104B150).