

Sulphurets *Sulphurets **Bruceside** (104B 190) 7600 meter drilling project of Newhawk Gold Mines Ltd was reviewed with John Watkins and Steve Roach on Sept 13. Mapping has traced Jack Formation (base of Hazelton group) wacke/argillite sequence from the Shore zone through the QSP alteration zone north of Gossan Hill and outlined a NNW syncline. Peter Lewis has developed a structural model for the property. The major northwest zones (West, Shore, Electrum) originated as steep faults subsequent to formation of the NNW syncline and emplacement of diorite and megacrystic porphyries. Subsequent east-west compression produced east-west dilational veins between the reactivated northwest faults which developed a strike-slip component. Deep drilling (300-500 meter holes) has been undertaken on Gossan Hill, Shore, West, R-8 and Bilecki zones. Three holes returned narrow high grade intercepts from Gossan Hill (Tommyknocker zone) but continuity is a problem. There was modest encouragement from a West zone hole which intersected 99.4 meters grading 0.075 opt Au and 1.26 opt Ag but two follow-up holes showed the zone is cut off by a porphyritic intrusion in one case and is not present in the other. Other zones produced no significant intercepts and with these discouraging results it is unclear if there will be exploration on the property next year.

*Westmin Resources **New York** (104A 063) property in Bear Pass, optioned from Tournigan Resources, was examined on Sept 14 with Chris Rockingham and Dave Pawliut (sp?). Semi-massive pyrrhotite-chalcopryrite is exposed intermittently for 250 meters, stratabound within a 20 meter thick argillite. Actinolite is associated with mineralization and a chert bed overlies the zone. The argillite occurs within a >1000 meter thick andesite mapped by Charlie Greig (GSC). Gold content of the pyrrhotite zone is low (0.0x opt). An airborne survey indicates a very good conductor that is several hundred meters long, beyond known exposures of mineralization.

***Tatogga** GSB mapping project was reviewed with Chris Ash, Teresa Fraser and Dave Lefebure on Sept 15. Objective of the project is to characterize alkalic (?) porphyry deposits in the area and their structural/stratigraphic setting, eg: Red Chris (104H 005), MFJ (aka Rose, 104H 001), Edon (104H 004), Hi (aka Klappan Rose, a skarn, 104H 014), GJ (104G 034), Wolf (aka Goat 104G 045) and QC (104G 033). I accompanied Chris on a routine traverse and examined Hazelton feldspar phyric andesite and derived volcanoclastics, Stuhini (?) fine clastics and mafic volcanics, and Paleozoic pelitic and chlorite schist. A chief point of discussion was assignment of the Red Chris deposit to the alkalic or calc-alkalic class of porphyry deposits.

RED CHAS *Red Chris exploration was discussed with American Bullion project manager Doug Blanchflower on Sept 16. With 34 holes completed he is confident of achieving the 1994 objective of 90 million tonnes grading 0.6% Cu and 0.55 g/t Au. Unfortunately this geologic reserve is in a narrow zone and could not be open pitted to the depths currently being drilled (300 meters). The purpose of deep drilling appears to be more promotional than logical, bulk underground mining of a high grade portion appears too remote. The IP crew is being recalled to complete definition of the edges of a 4 km by 1 km anomaly over the Red stock but no drilling of anomalies outside the Main and East zones will be done this year. Blanchflower suggests Red Chris is not a porphyry copper due to the strong sheeting of quartz veins, linearity of the copper zones, abundance of ankerite and lack of anullar alteration zoning. ?

*Accompanied prospector **Rob Reding** (grant recipient) and Dave McCurdy in the field on Sept 21. "We" found a new zinc showing!

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*Decorative facing stone samples were collected from road accessible sites in the Smithers-Houston area for office display: Equity bladed feldspar gabbro and Nanika granite. Limestone yet to be collected from site near Granisle.

*Fireweed core review begun. Little published material available in ARIS or elsewhere on this silver-lead-zinc prospect. Aim is to attract interest in it.

MINESITE NEWS

- 1) *Endako expects to mill 10.6 million tonnes at 0.131% MoS₂ in 1997 from 20.8 million tonnes of rock, producing 14.3 million pounds of molybdenum (Lyal Chapman, Minerals North). In addition to a 10 year ore reserve, Endako has an additional 10-12 year resource. Depending on approach taken by Thompson Creek Mining, \$1.5 million may be spent on exploration over the next 2-3 years and, if successful, production increased from nominal 30,000 tpd to 36,000 tpd. In conjunction with mine expansion the grinding and milling circuits would be further automated, a new crusher and a second roaster installed.
- 2) *Snip mine operating costs increased to US \$204 per ounce compared to US \$185 in the first quarter of 1996, due to increased reliance on more labour intensive narrow vein mining methods. Completion of the Iskut road would help reduce costs.
- 3) *Golden Bear has re-commenced site work on the gold heap leach operation. Two deep holes are being drilled on the Grizzly zone.
- 4) *Table Mountain produced 1523 ounces of gold in the first quarter, down 16% from 1996. The mill was shut down for 5 weeks while development work was completed. Cusac lost \$1.38 million in the first quarter. Production throughout 1997 will come from the Vollaug vein. First quarter average grade was 0.354 oz/t Au but grade and ore production are expected to increase.
- 5) *Premier Gold has been reviewed by about 6 companies (Canarc, Royal Oak, Treminco, Kinross?, etc). A tentative purchase agreement is expected by late June.

EXPLORATION ACTIVITY

Red Cap

*Claim staking continues to be active. Areas of note include Anyox, Todd Creek (reported last month), upper Copper River (near Smithers), Babine camp, north Iskut (Sphaler Creek) and Taku (Red Cap).

Sulphurets

*Sulphurets-Bruceside (Brucejack) to be acquired by Treminco Resources Ltd. for \$4 million with closure on Sept 8. The property has a MDC and the company's intent is to place it into production as soon as possible. Treminco owns and operates the 275 tpd Ptarmigan gold mine near Yellowknife, and owns the idle Silvana mine/mill near New Denver.

Galore Ck.

*Kennecott's 55% interest in the Galore porphyry copper deposit will be put up for sale. This is one of the premiere undeveloped resources in B.C. Total resource in three zones is 284 million tonnes at 0.67% Cu and about 0.38 g/t Au. Hudson Bay Mining and Smelting owns the other 45%.

Wojdak - MR, May '97