

TOS → Smith



Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

# MEMORANDUM

Smithers — Telephone: (604) 847-7383 Fax: (604) 847-7603

## MONTHLY REPORT - MAY 1995

~~At~~ Polaris Taku

886033

by

Paul Wojdak, NORTHWEST REGIONAL GEOLOGIST

JUN 08 1995  
Geological Survey Branch  
MEMPR

### HIGHLIGHTS

Taurus

\* Cyprus Canada Inc. continues its aggressive exploration of the **Quartzrock** property in the Cassiar gold camp. The property comprises the Taurus, Plaza and Sable underground workings optioned from International Taurus Resources plus adjoining claims optioned from Cusac Industries. (Cusac continues to operate its underground mine nearby.) I discussed the project with David Boughton of Cyprus on May 30. Initial drilling (7 holes) was immediately west of the 88-1 zone explored by International Taurus last year up to the Cusac boundary. The second phase of Cyprus drill program is underway. They are strongly encouraged by the winter IP survey which successfully delineated pyritic quartz-veined listwanite, disregarding some false anomalies over siliceous argillite. Prior work at Taurus focused on individual quartz veins near the base of a thrust plate of listwanite altered mafic volcanic rocks, which overlies graphitic argillite. This position contrasts with the Cusac (Erickson) property where auriferous listwanite is localized near the upper volcanic/argillite contact. Following surface mapping Cyprus proposes grid drilling with two machines to test a 3 by 3 kilometer area that includes the higher grade underground workings. The target is an open pit of several hundred million tonnes of 0.5 g/t Au with a starter pit of 10-20 million tonnes of 2-3 g/t Au. Currently the zone is indicated to be at least 400 metres wide and 175 metres thick grading about 0.6 g/t Au. Gold is associated with sheeted quartz veinlets and with pyritic gouge. The latter association has caused Cyprus to employ triple tube drill technique in order to maximize core recovery. Property options from Cusac Industries and International Taurus call for Cyprus Amax to spend \$1.2 million this year.

### FIELD ACTIVITIES

Polaris Taku

\*Polaris Taku 1995 exploration was reviewed with Canarc geologist James Moors on May 29. An 1800 metre drill program is planned to test two gold targets. Gold is associated with disseminated arsenopyrite in structurally controlled listwanite within Devonian mafic volcanics. Ar-Ar dating of sericite-fuchsite gave 63 Ma mineralization age. A new zone of intersection of AB and Y structures, a "junction arc", will be tested southeast of known mineralization. The target area lies beneath an estimated 300 metres of overburden in Tulsequah River valley and two seismic lines are being run to determine the bedrock profile prior to drilling (2 holes). Last year's work on the Y-vein was disappointing and no more drilling is planned. On the North zone, discovered last year, a deeper cut of holes is planned to test if grade improves at depth, and to test a second deeper zone which was cut in some holes. The best 1994 North zone drill intercept was 6.2 g/t Au over 16.9 metres. The discovery outcrop in a creek cut was examined with James Moors, it is surprising that the iron carbonate gossan with finely disseminated arsenopyrite and stibnite veins exposed over 3 metres was not discovered in the past.

PW - May '98

Polaris  
Taku

Unfortunately there is only 150 meters of room downdip on the North zone to its projected truncation by the Limestone fault which bounds the Mine wedge. The Limestone fault is tentatively correlated with the Llewellyn fault, displaced 4-500 metres west by newly recognized 101 Fault.

Engineer

\*Engineer mine was toured with Swede Martenson of Ampex Mining on May 27-28. Ampex is being funded by Pelly Construction to mill a 1000-1500 tonne sample to be extracted from the Engineer and Governor veins. A series of quartz-(calcite) veins fill tensional fractures that are at right angles to a prominent northwest shear zone cutting folded Laberge Group sedimentary rocks. The mill is a gravity circuit employing a jig and Deister tables. Ampex has studied old mine records and processed small samples to identify gold shoots. The longer term goal is to de-water the 600, 700 and 800 levels. Old sample records indicate ore-grade gold the 700 level which may correlate with the principal area of stoping above 500-level (the mill level).

Trouble in past!

### EXPLORATION AND MINESITE ACTIVITY

\*Kodiak gold heap leach will not proceed at Golden Bear this year. North American Metals Corp will direct its efforts to exploration of the Grizzly and Ursa zones. Six holes in the Grizzly zone average 16.3 g/t Au over 10.8 meters. Mineralization is refractory and would require operation of the mill and roaster. The heap-leachable Ursa will be explored to depth by drilling. Two other targets between Kodiak and Ursa will also be drilled.

Red-Chris

\*Drilling at Red Chris is underway by American Bullion. Geometry of the publicized 100 million tonne deposit (0.58% Cu, 0.46 g/t Au at a 0.4% Cu cutoff) is not amenable to open pit mining and work this year will aim at defining an optimum open pit resource, probably at a 0.3% Cu cutoff. Drilling will also extend to the west into the "Yellow Chris" (Gully zone) area. Work continues to be helicopter supported. To prepare an application to re-open the 8 km access road to Red Chris, a consultant for American Bullion spent two days in Smithers government offices to determine issues and permitting procedure.

\*Milling of stockpiled ore from the Big vein is underway at the Table Mountain mine by Cusac Industries. Ore is described as being low grade (ie 8-12 g/t Au??). Mining of the East Bain and Michelle veins is anticipated.

### OFFICE ACTIVITIES

\*Introductory Prospecting course in Smithers

### NOTICES OF WORK

24 Mineral NoW received. Year-to-date total is 77 (vs 81 in 1994).  
24 Placer NoW received (April+May). Year-to-date total is 46 (vs 53 in 1994).