

J+L TOUR (June 27/91)

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Notes by R. Arksey

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This visit was originally scheduled to have been held in conjunction with a South-Central MDSC meeting on July 25th, 1991. That meeting was subsequently postponed until July 11th, 1991. As we were unable to attend the July 11th meeting, we proceeded ahead with our visit.

The Main zone is fairly well understood with abundant literature (*eg.* Meyers and Hubner - Part B, 1989), so our focus was on the newly discovered Yellowjacket (YJ) zone. This involved looking at core from the YJ and Main zones, with an underground tour of the Main zone.

MAIN ZONE:

The underground tour was concentrated on viewing the lithologies in which the deposit is contained. The deposit is within the Badshot? Formation of phyllite, limestone and minor quartzite. One of the phyllitic packages has been interpreted to have had a greenstone protolith. The ore zone varies from 0-2 meters in thickness and grades from massive to disseminated arsenopyrite + sphalerite. Property geologists hold the belief that zone is structural rather than stratabound.

YELLOWJACKET ZONE:

In trying to determine the western extent of th Main zone across McKinnon Creek, the YJ zone was discovered. Approximately 25 holes have been drilled into this zone with very encouraging results. Four (4) mineralized lenses (#1-#4) have been delineated for a strike length of 110m and over a thickness of 25-40m. The host rocks extend beyond this, however. An unusual olivine group mineral **knebelite** (Mn,Fe)₂[SiO₄] is conspicuous by its presence and could possibly be associated with zinc ores???

Poor access, overburden and steep terrane have hindered drilling on the YJ zone, however it is a very attractive target because of the *clean* Pb-Zn-Ag mineralization (*ie.* **No Arsenic**). A major concern is that the lack of arsenic is accompanied by a corresponding lack of gold! Due to the lack of these elements, this mineralizing event is believed, by project geologists, to be a later event.

The 4 lenses are within a very distinctive, pale green, siliceous banded phyllite and carbonate sequence, with minor quartzite. Mineralization occurs as semi-massive honey- to dark-red (Fe-bearing?) sphalerite with fracture filling galena. Mineralization is concentrated (up to 20-25% zinc) in zones of intense silicification in the silicified carbonate and sericitic-phyllite unit. Ice blue to limy green fluorite is enigmatic as it appears associated with the mineralized zones.

Comparison of the Main and Yellowjacket zones:

- the Main zone is Au and As bearing; the YJ zone has neither
- the two zones are at different stratigraphic levels and may be from 0 to 35 to 50 meters apart. this is due to the following:
 - the Main zone dips 50-55° East
 - the YJ zone dips 50-55° East, but plunges West at approximately 45°

Therefore, the two zones "pull away" from each other at depth.

1991 objectives of the program include to try to define an ore tonnage of greater than 3 million tonnes which could potentially support a 1,000 tonne per day operation. The outlook for the J + L appears bright with the discovery of the Yellowjacket zone and continued success of the Main zone.