

827033 92F/3

KENNEDY RIVER AREA -

Property Exam

April 27, 1988

Mine Creek Adit

About one week ago quartz float in Mine (?) Creek was traced to an old adit (early 1900's). Location of the adit appears to be near the boundary between KEN (United Tommy Option) and ICM's Esther Claims to the north and may include the western edge of the Golden Gate Claims (United Tommy Option). (See Figures 1 and 2).

The 15 m long adit (Figure 3) follows a 30-40cm wide quartz vein with variable sulfide content which averages 10% with local high grade concentrations (50%). Sulfides include pyrrhotite, sphalerite, pyrite with lesser chalcopyrite and possible minor galena with the sphalerite. The vein trends  $77^{\circ}$ - $92^{\circ}$ / $62^{\circ}$  S along a shear zone within the altered granodiorites, (sheared, clay, sericite altered). The vein bends proximal to the Mine Creek Fault and parallels the creek in a southeasterly direction. Similar quartz boulders, though with fewer sulfides were observed 20-30 m upstream (SE along the Mine Creek Fault). Although the host here is andesite, the local boulders appear to be part of the same vein trending along the creek.

Thirty metres W of the adit, trenching by ICM has uncovered two more exposures of what appears to be the same vein as in the adit. (Figure 3). Width varies from 45 to 100 cm but only trace pyrite occurs. This is not entirely disappointing since petrographic studies by ICM reportedly indicated that the gold occurs as small free grains not tied up with the sulfides and occurs both in the barren looking quartz and sulfide rich quartz. 125 and 200 m further west, along strike quartz vein outcrop (30-45cm) wide was observed by ICM. The occurrences are not well exposed but resemble the quartz found 30 m west of the adit with only trace pyrite. No samples have been taken here and no previous samples were taken on the adit vein nor along its extent. My samples were sent to Chemex April 28, 1988 on a rush order.

This vein trends towards the Rose Marie Crown Grants where past mining was conducted on sulfide bearing veins.

The Shack Vn was also examined (RAD, TB looked at it previously). Although the vein is narrow 30-60cm (Avg 40-45 cm) it generally contains uniformly high grade Au values (1 - 3 oz). Four samples were collected to check and determine consistency of grade. Minor values (max. 0.09 oz/t Au) were reported from the hanging wall.

Although the veins are narrow, the Mine Creek adit vein is very similar in sulfide mineralogy to the Bear Vein which was shown to have favourable grades across significant widths (4') and good drill tested depth extent. (Personal communication with Waldo Etjel's crew). I have not checked recent Bear Vn results. Furthermore the setting between the Mine Creek and more northerly Canoe Creek splay is extremely favourable. Numerous splays occur off the more major faults, many with associated Au bearing quartz veins.

The veins are reminiscent of those in the Zeballos Camp - narrow high grade quartz sulfide veins with good strike and depth continuity.

Jean Pautler