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Gambier Island Folder — Storage Room

Notes Gambier Island - Peter Fox - M.E.G. - January 28, 1981

Chalcopyrite, moly, some bornite, minor pyrite.
- much of it in the biotite therefore not easilly recognizeable.
- Tertiary? plug, quartz prophyry host, Gambier Volcanics
- Wedge between 2 faults (one lines up with Mt. Donaldson - JM)
- Main Creek cutting deposit gave minimal geochem; smaller creeks were loaded (i.e. Mo 200, Cu 2000, etc.)
- Silver Content - 1 gm/ton
- Gold - very low; no concentrate assays given
- Copper concentrate - no trouble getting 25% Cu
  - 87% Cu recovery
- Moly - about 0.018 (aver?) -- 60% recovery
  - Cu equivalent used = 8
    Cu:Mo not in ratio. Copper equivalent used throughout.
  - Grade - Cu about 0.29% - add Cu Eq.
    = 0.44%
    - cutoff = 0.3% Cu Equiv.
  - Tonnage - about 115 m.T with 0.7:1 strip ratio to -90 metres
    - Double depth - about 180 m.T. with same(?) ratio.

- Computerizing ore reserves - cost about $12,000 (Handelsman did some?)
- Drilling - about 39(?) holes averaging 200 m.
  (Schussler did the second stage) - JAR helped.
- pyrite and epidote haloe; some small Pb-Zn veins around it.
- rock highly sericitized, secondary biotite
- cut-off by unmineralized diorite (to east?)

(Note: J. J. McDougall, P. Burns sampled best core (1979) in first holes and it averaged about grade now quoted for whole deposit. We dod not recognize a 'quartz porphyry' and most that saw the deposit consider it to be dioritized volcanics.)

- no work at present.
- Getty did much of the work

No comment.

J. J. McDougall

JJM:ik

8 x Cu = 1 x Mo

8 x 50 = 800

.018% Cu Mo = 36 = 288 = .14% Cu @ 100/lb.