

822985

Geology FileNelson Project - BC-19

Aug 4/81

Re Gossan

Gossan on Keng cts is brown colored limonite, goethite & Jarosite? with seemingly limited run off of Copper despite steep slope. This type of gossan suggests moderate percentage of Sulphides & a high proportion of  $FeS_2$  to  $CuS$ . In the presence of potash (from Sericite) Jarosite precipitation. Potash as van silicate reacts with & neutralizes  $H_2SO_4$  (from pyrite) thus favoring precipitation of  $FeSO_4$  which would otherwise run off.

Since the Nelson area was presumably glaciated and since 10ft<sup>±</sup> of gossan remains, conceivably the gossan was much thicker at one time.