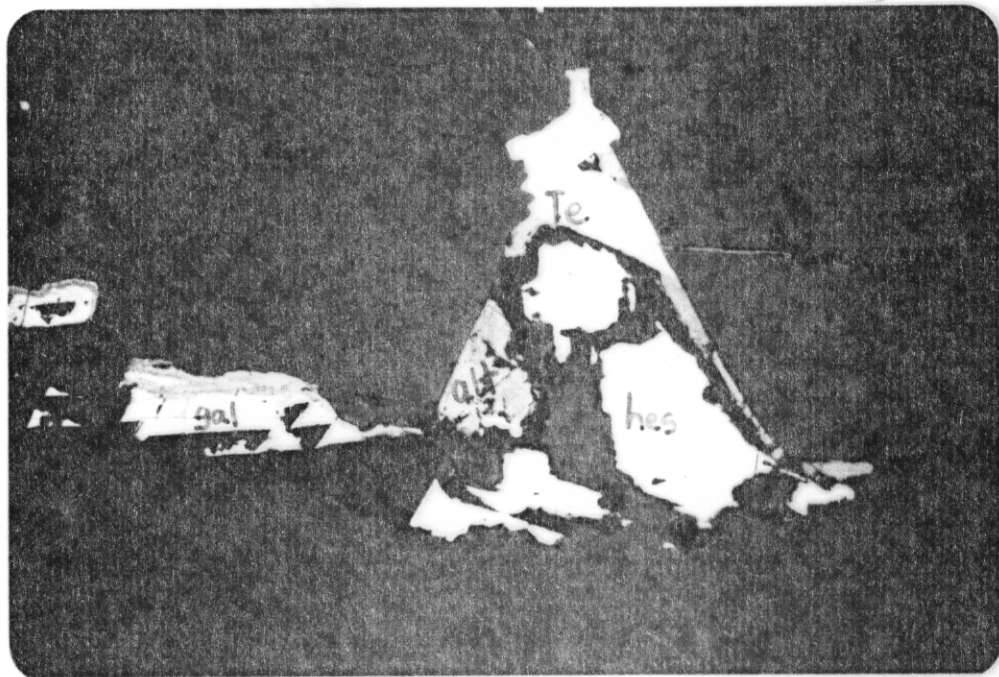


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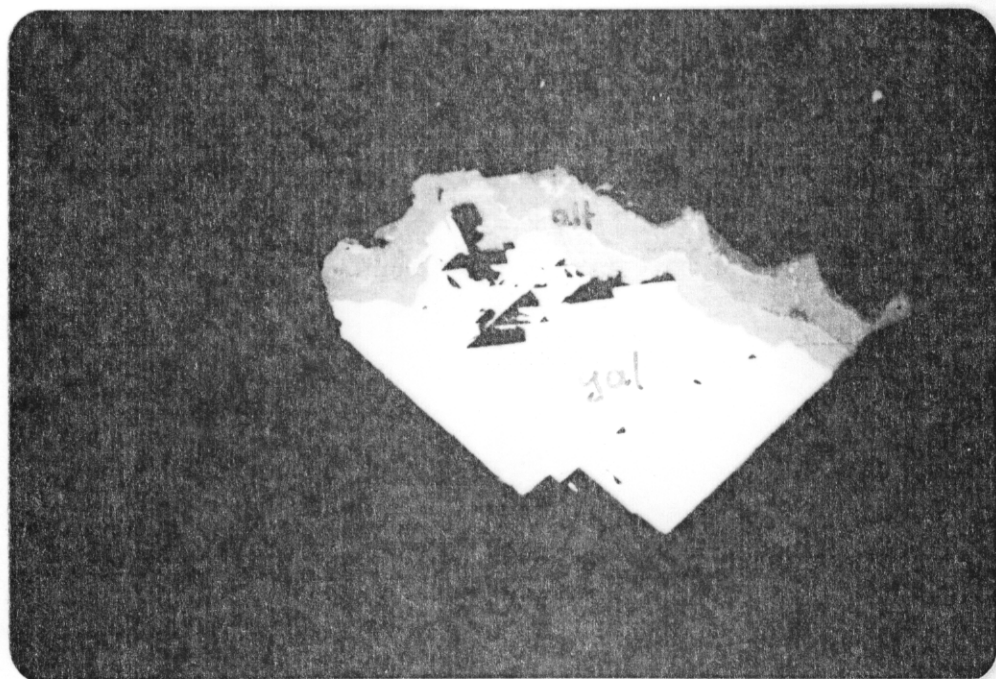


100 μ m

①

fracture in
quartz

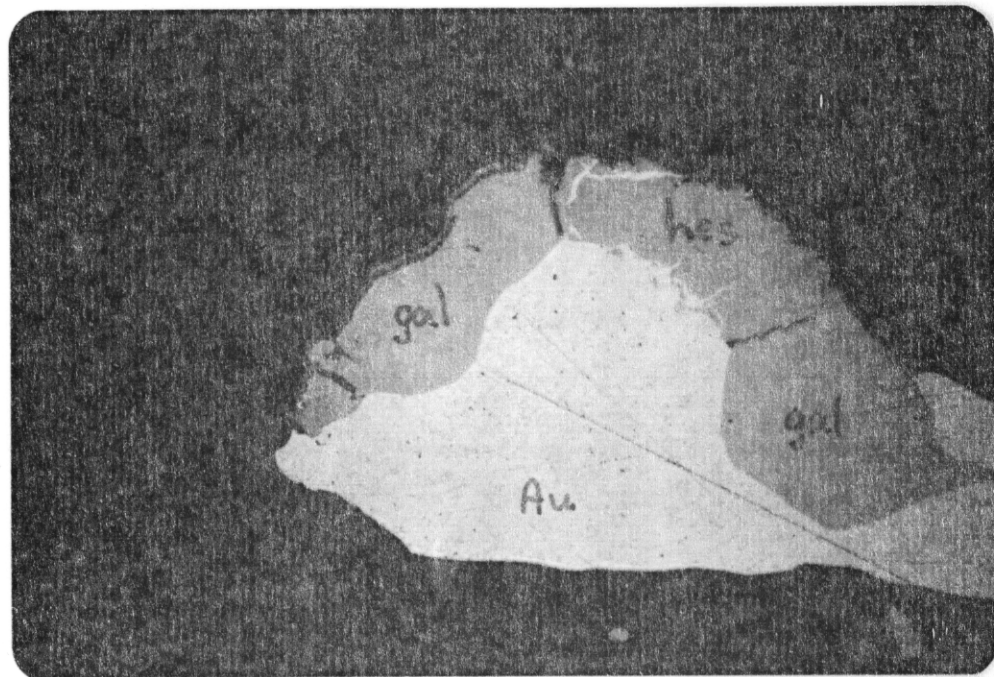
Tetradymite (Te) $(\text{Bi}_2\text{Te}_2\text{S}_2)$ [Ag₂Te] and galena (gal) and their alteration products (alt) coexisting along a fracture in quartz. No gold present.



② same so

in quartz

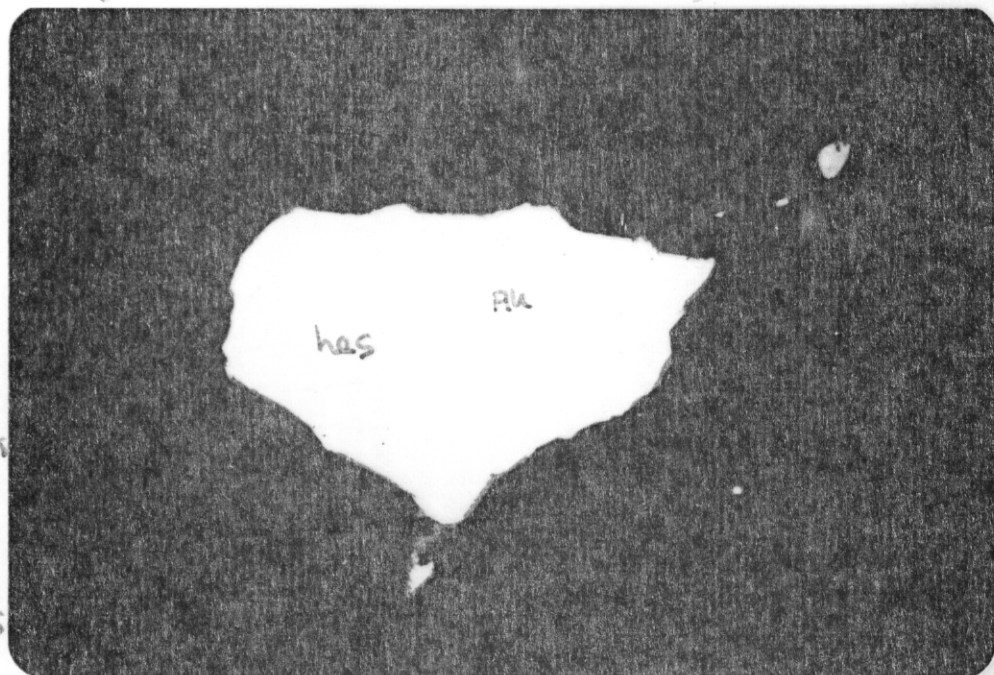
Zoned alteration or changing solution chemistry of fluid to expose surface of galena grain. Rims are Ag-Te rich and Bi poor compared to core galena (see microprobe analyses)
Note no gold contents



Same

(3)

Coexistence of native gold, galena (gal) and hessite (hes) along a fracture in a quartz vein sample. Affinity of gold for hessite is indicated by gold filaments in hessite but not in galena. Alteration rim present on galena and hessite. Gold and hessite maybe interpreted to be replacing galena. Lack of gold contents in hessite composition suggests that available gold contents of mineralizing fluids was preferentially taken up by electrum, rather than the telluride phase. Gold fineness for hessite associated gold is 809 and gold fineness for gold in quartz or gold replacing galena averages 770. Thus gold composition within the same showing or even polished section of Lakeview varies considerably.



(4)

Same scale

in quartz

Note these gold filaments with the oxidation of hessite would make good candidates for leaf gold or rolled agglutinated elongate flat nuggets

Filaments of native gold filling fractures in hessite (hes). All gold in