

CIM Dist 6 Oct 86

usefulness of Explan

Alley Carbonatite - Ken

Core - dol carb (derived from orig cal + silicates?)

Rim amphibolite - massive, some bx

Darker altn halo

Explosive

carbonatite dykes extend into CR

CR Kechika

cream dol

Question - altn of limestones - how pervasive?

Amphib Bx - exotic frags - looks conglomeratic
Ind. albite

Dol Core +apatite bio py, pyrochlore magnetite

Dykes Ce Sr Ba R rich - dolomite ankente calcite

Minerals Ba - rich

Ba - poor

phosphates

Nb zones

Saddle / Ridge / Bear
(Biggest)

East / Saddle west / Central

mainly Ferussite (mostly replacing)
some pyrochlore

" columbite (replaces)

Core avg .6% Nb₂O₅

In a thrust sheet?

Commodities P₂O₅ REE Nb

Lst - may be amphibole altered
- not particularly pervasive

Apatite - avg 6%

Could they be found by magnetic + radiometric survey?
probably Th enriched out into CIR ∴ probably yes

Flow Foln in carbonate^{ns} subpar to amphib. contact

Economics - Niobium + Magnetite probably

ORIGIN OF THE RIM AMPHIBOLITE -

Intrusive phases?

yes late dol + calcic dykes

Amphibolite dated - biotite - K/Ar