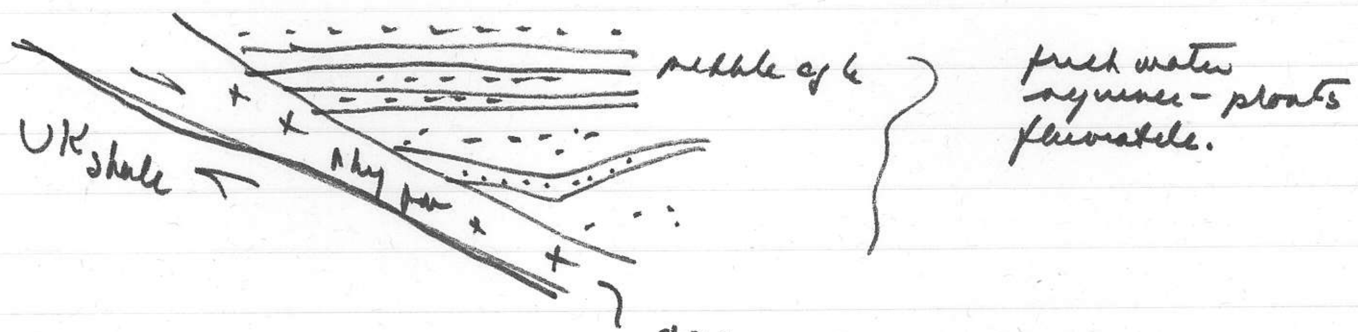
103F/9E

675878

Specogna - Cons Cinola
[illegible]
Whitehorse Dec 2/80

Cinola Norm Champigny

Diagram shows the delta.
unlithified ~~Eoc~~ Mio ~~Masset~~ seds, Eoc Masset volcs.
45.4 M T .054 oz/T Au + .05 oz/T Ag.



everything in HW of fault mineralized.
Sst + cgl silicified, superimposed stockwork.

Rhy porphyry bx'd locally, f.g. sulphide dissem py, marcasite, 1% sulfides po, sph, gal. micron size Au coarse Au 6-24% Ag. Au not assoc sulphides or other minerals i some dissem'd.

paragenesis of veins.
① grey qtz → hem → white qtz → clear qtz euhedra → calcite ⑤

Crustification, ribbon, calcite/qtz euhedra textures in veins.

Milky qtz - all 2 phase, liquid dominated = base of boiling, no boiling indicators

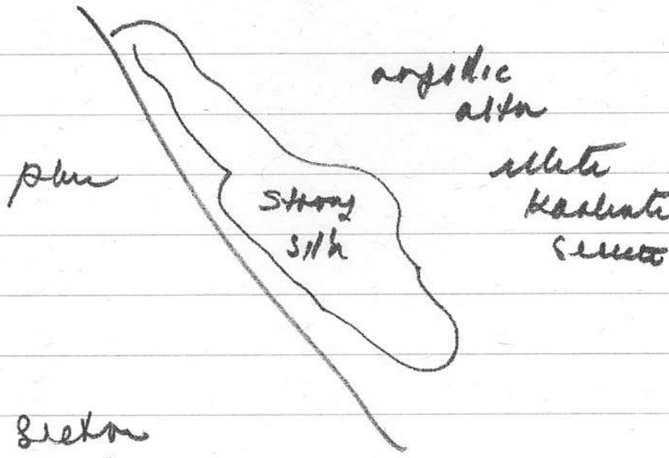
fill T: 130 - 310 150-160 260-280 concentrated T ranges.
salinity 0-1% NaCl equiv.
but acid enough to carry Au as Cl complex.
ore fluid low CO_2 NaCl - nearly pure water

This water probably min fluid in location flow-sed — recirculation mechanism.

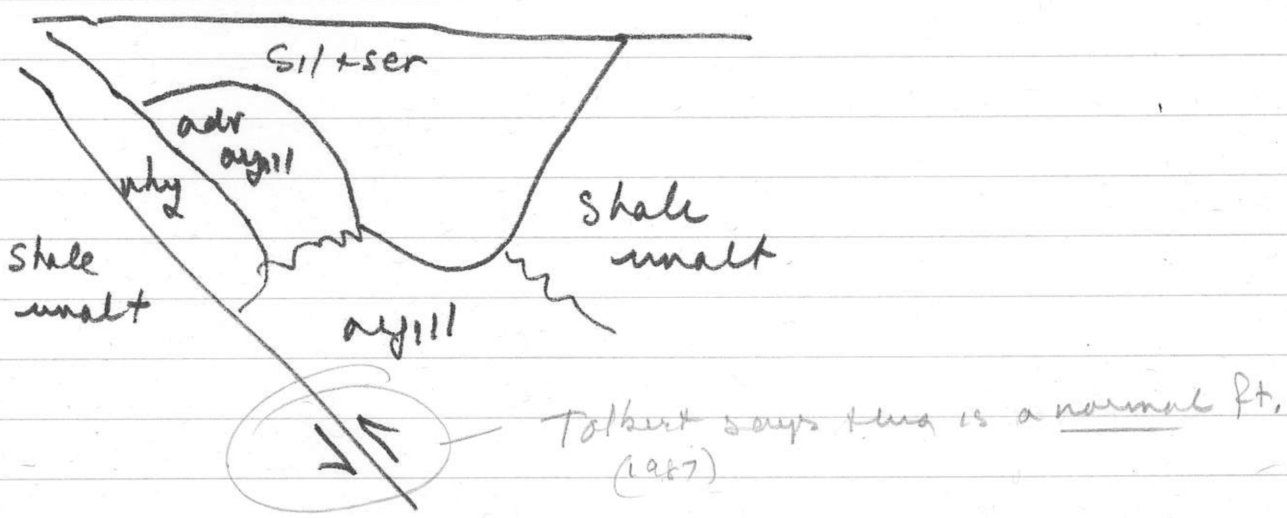
Need 1.1 km min depth to keep from boiling at 300C.
max depth seds 1.8
BCDM fieldwork report.

Cinola contd

altn like halo around system.



alt section



Phy porph up fault at top convection cell

Metals from seds – either placers or volc. clasts
Silica from siliceous seds
2 pulses in paleotemperatures.
Bulk of Au in later stages.

Guides

* NW high angle faults
* porous rocks
* T dikes or other heat source.