1-17-90

TT192 D3-3 Fracture Surface

photo 1 contact (possibly) between 2 layers of the dense Mn
angle which may be a contact

photo 2 Dense layer
photo 3 " " after rotating sample
photo 4 contact between light & dark
photo 5 aligned fibrous botryoids

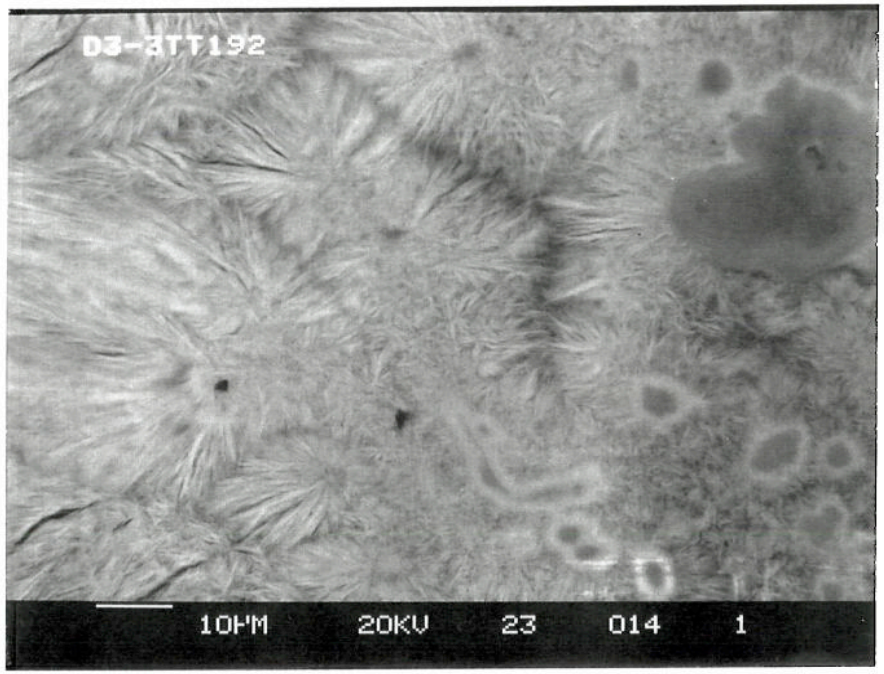
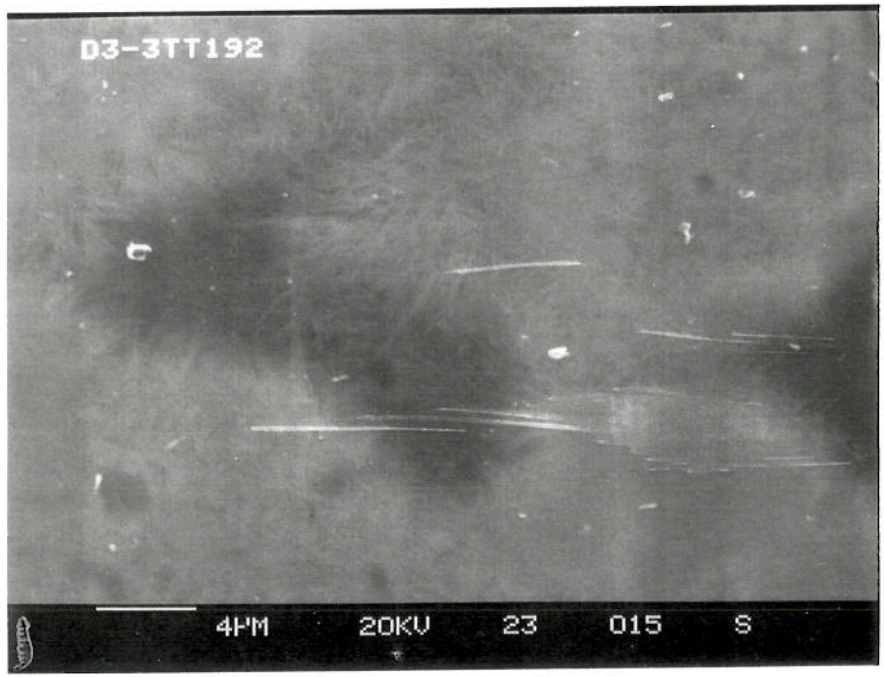


Photo 2

Photo 3



TS, INC. P.F

Slide: TT192 D3-3

Detrital grains: Ca > Si > Al tiny amount of Fe
Plagio / Pyroxenes (?) why somuch Ca ?

Matrix Mn has some Ca & K,

Fe > ~~Mn~~ ≈ Ti > Mn grain Magnetite(?) several grains

grains stand higher than Mn

Si > Fe > Mg Pyroxene(?) other side Si > Fe > Ca > Al > Ti (?

Si > Ca > Al > Fe > Ti (?)

Zonation - lighter zone Mn > Ca
darker zone basically the same must be
hydroxl or water, etc.

Photo 1 - of the light versos dark

what is ~~cau~~ causing these crystallites to form?

Photo 2 with light area, radiating xtallites, backscattered

dense / darker area Mn > Ca
fibrous area Mn > Ca

Robert
Gone
July 24 to
Aug 7

edges of "bubble columns" are fuzzy with hairy xtllites

— photo 3 very fine xtallites. of bubble columns.

lines of xtallites that cross cut things are a chemical change rather than textural.