

SAMPLE NO: TK 650405

LOCATION: ~~East Kimberley~~Thunderball Extended  
Trench 1

SAMPLE TYPE: Rock Chip

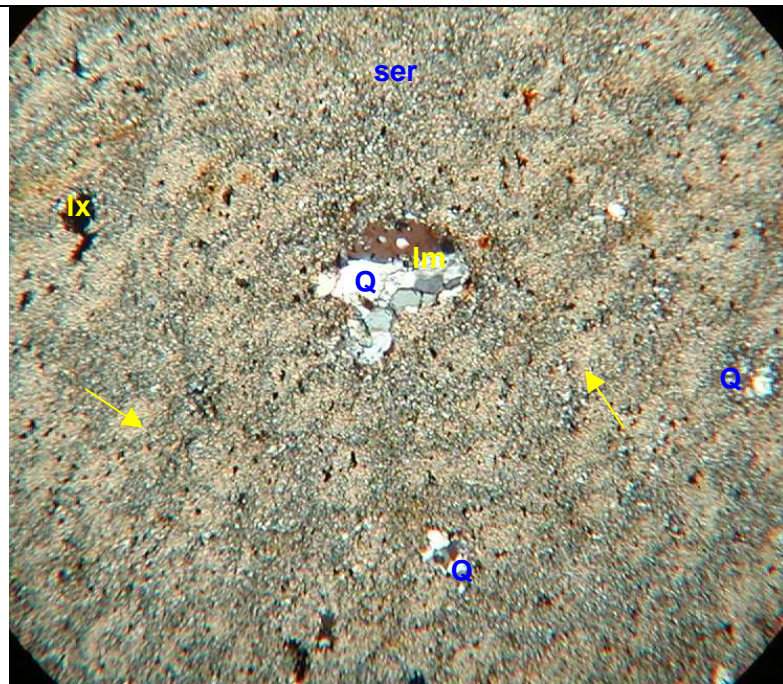
SECTION TYPE: Thin Section

FIELD IDENTIFICATION: Altered – sericitised felsite.

**DESCRIPTION:** Occasional quartz clasts occur in pervasively altered matrix. The quartz clasts or phenoclasts have been locally recrystallised. The feldspathic component represented a significant phase in the matrix and has been replaced by scaly sericite aggregates. Fine leucoxene aggregates are dispersed through the matrix. The matrix comprises microcrystalline quartz associated with scaly sericite and lacks a penetrative schistosity. Minor goethite replicas after original sulphides. An epitaxial quartz vein cuts the matrix.

*In reflected light*, trace residual chalcopyrite (20 µm) occurs in in siliceous aggregates. Leucoxene is apparent in reflected light.

**CLASSIFICATION:** *Pervasively hydrothermally altered (sericite) felsite – either fine grained felsic tuff or volcanic.*

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Relict quartz (Q) clasts and possible sericitised feldspar clasts (arrowed) occur in an altered matrix comprising microcrystalline quartz and scaly sericite (ser) in the altered felsite host. Crossed polars. Field of view – 3 mm.

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