

**PRECENOZOIC SOLID GEOLOGY OF THE STRANGWAYS RANGE TO HARTS RANGE AREA**

**LEGEND**

**NEOPROTEROZOIC**

- Eua-Pz Undifferentiated Anyanga Formation to Paleozoic
- Ea Undifferentiated Hawnthwaite Quartzite and Silt Springs Formation
- Eub Silt Springs Formation
- Euh Hawnthwaite Quartzite

**HARTS RANGE OROGENIC BELT**

- Ehr Retrogressed or alteration zone
- Mondor Igneous Complex**
  - Ehm Ultramafic, diorite, norite, pyroxenite, phlogopite, shonkinite, apatite intrusions
  - Ehm Zoned ultramafic plugs (Bavewheat Ironstone)
- Strangways Metamorphic Complex**
  - Ebn Intrada Supracrustal Assemblage undifferentiated
  - Eha Amphibolite
  - Ehp Pelitic and semipelitic gneiss
  - Ehq Pure and impure quartzite, marble and calc-silicate rocks
- Metamorphosed Intrusive Rocks**
  - Ehp Granite
  - Ehm Mafic rocks
  - Ehu Ultramafic rocks

**FLORENCE DETACHMENT ZONE**

- Ebn Bruna Gneiss (mylonitised and metamorphosed granite)
- Ebn Metamorphosed mafic rocks
- Ebn Florence Metamorphic (mylonitised granulite facies rocks of Strangways Metamorphic Complex)

**STRANGWAYS METAMORPHIC COMPLEX**

- Enita Gneiss Complex**
  - Ebn Tonalitic and granitic gneiss with minor metasediments
  - Ebn Amphibolite
  - Ebn Metamorphosed mafic rocks
  - Ebn Metamorphosed ultramafic rocks
- Oonagabbi Gneiss Complex**
  - Ebn Granitic gneiss with minor metasediments
  - Ebn Amphibolite
  - Ebn Mafic granulite
- Artungwa Gneiss Complex**
  - Ebn Undifferentiated granitic gneiss, tonalitic gneiss, amphibolite and minor metasediments
  - Ebn Ultramafic

**Cadney Metamorphics**

- Ebn Undifferentiated amphibolite to granulite facies metasediments and minor gneisses, with characteristic marble, calc-silicate rocks

**The Gardens Metamorphics**

- Ebn Undifferentiated mafic and felsic granulite with minor metasediments and gneisses
- Ebn Ultramafic

**Undivided metamorphic rocks**

- Ebn Kanandra Metamorphics

**Geological Features**

- Lithological boundary
- - - - - Unconformity boundary
- - - - - Trend of layering
- Fault related to Alice Springs Orogeny
- Thrust and nappe structure related to Neoproterozoic Artungwa Orogeny
- ~~~~~ Ductile shear zone
- Undifferentiated fault or thrust

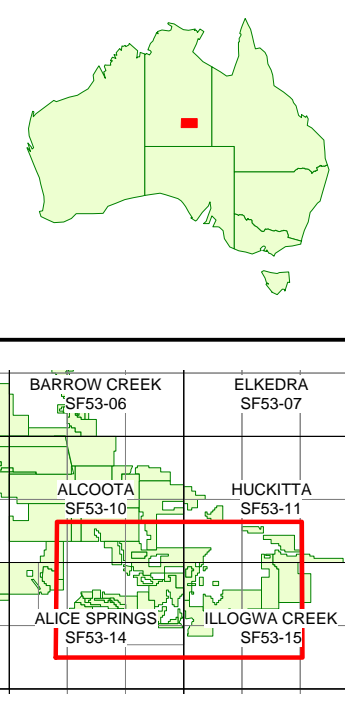
**NTGS - MODAT DEPOSITS**

**GOLD**

- Large (>50t)
- Medium (10-50t)
- Small (0.1-10t)
- Occurrence only (<0.1t)

**COPPER**

- Large (>1Mt)
- Medium (50,000-1Mt)
- Small (500-50,000t)
- Occurrence only (<500t)



**TANAMI GOLD NL**

**HARTS RANGE**

**INTERPRETED GEOLOGY and MODAT OCCURANCES**

2.5 0 2.5 5 10 15  
MGA Zone 53 (GDAG4) **1 : 125,000** kilometres

ORIGINATOR: **C.Rohde** DATE: **May 2004** DRAWN: **M.H.Bailey**

PLAN No: **47\_Gi\_003**

**PLATE 1**