



Targeting Copper in South Australia



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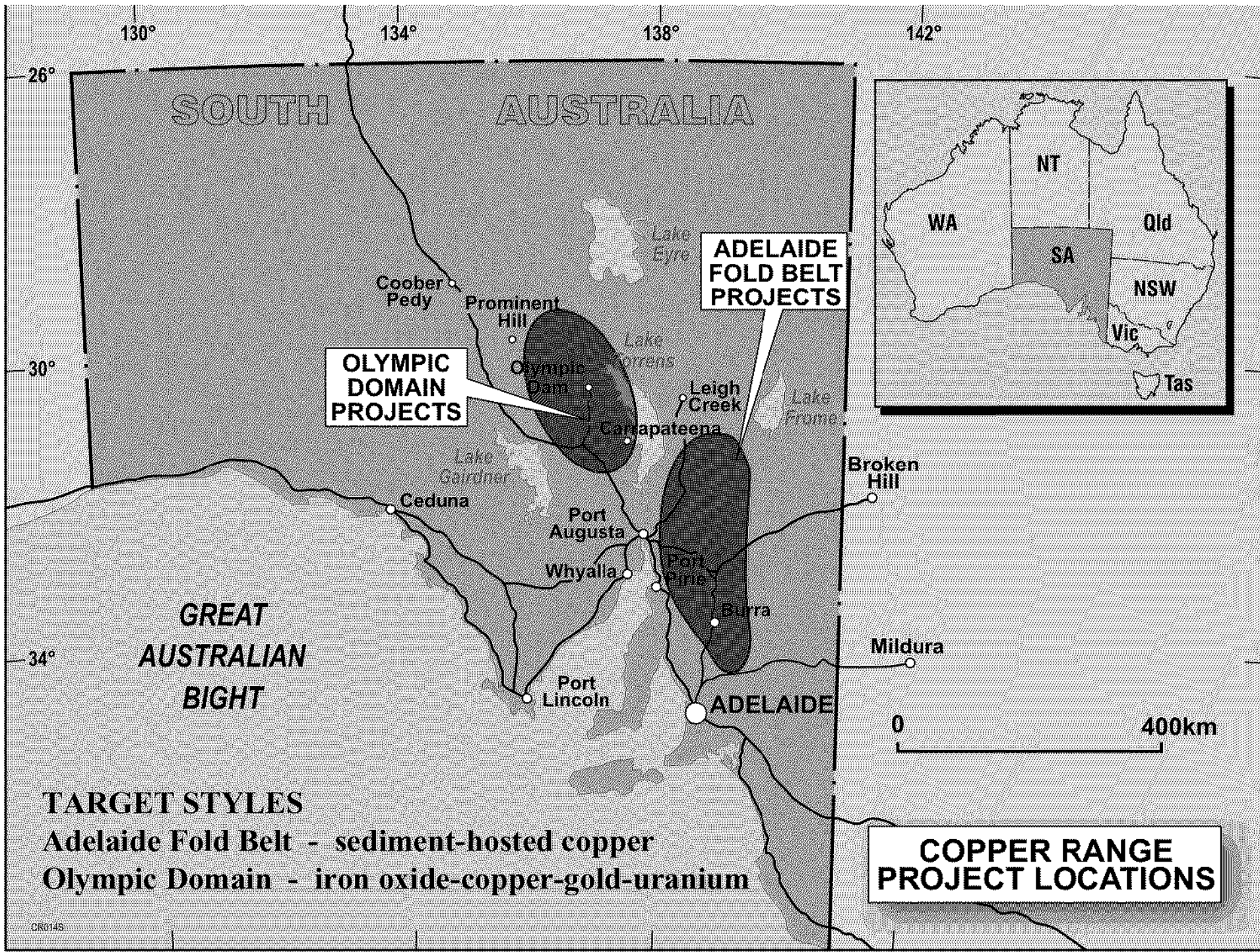
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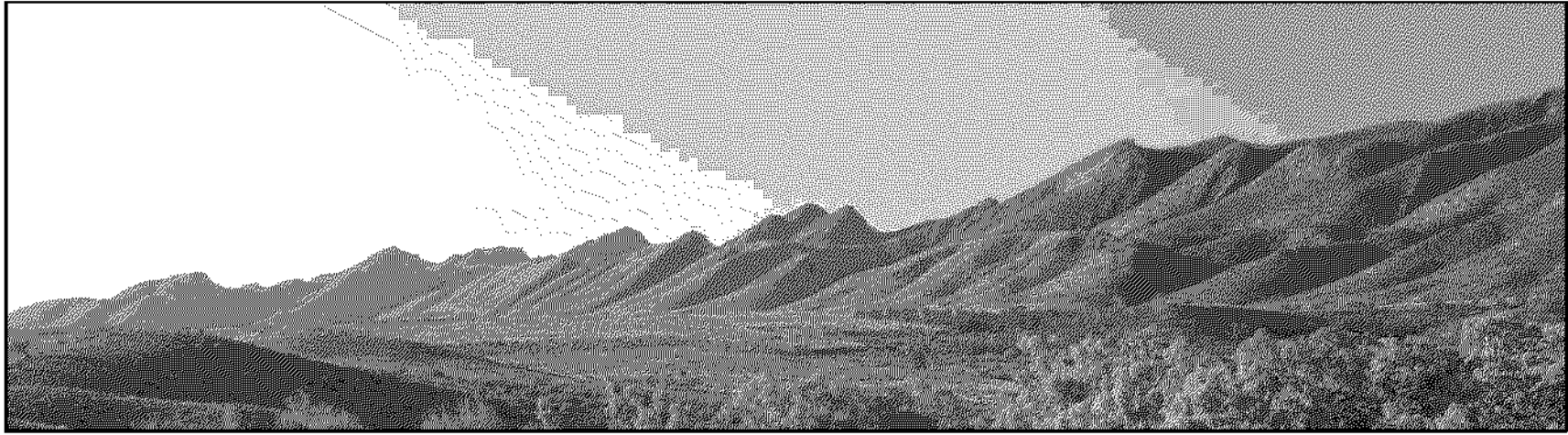
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Adelaide Fold Belt



“The Adelaide Fold Belt displays all of the general characteristics of geology and basin development considered necessary for the generation and deposition of stratiform sediment-hosted copper deposits:

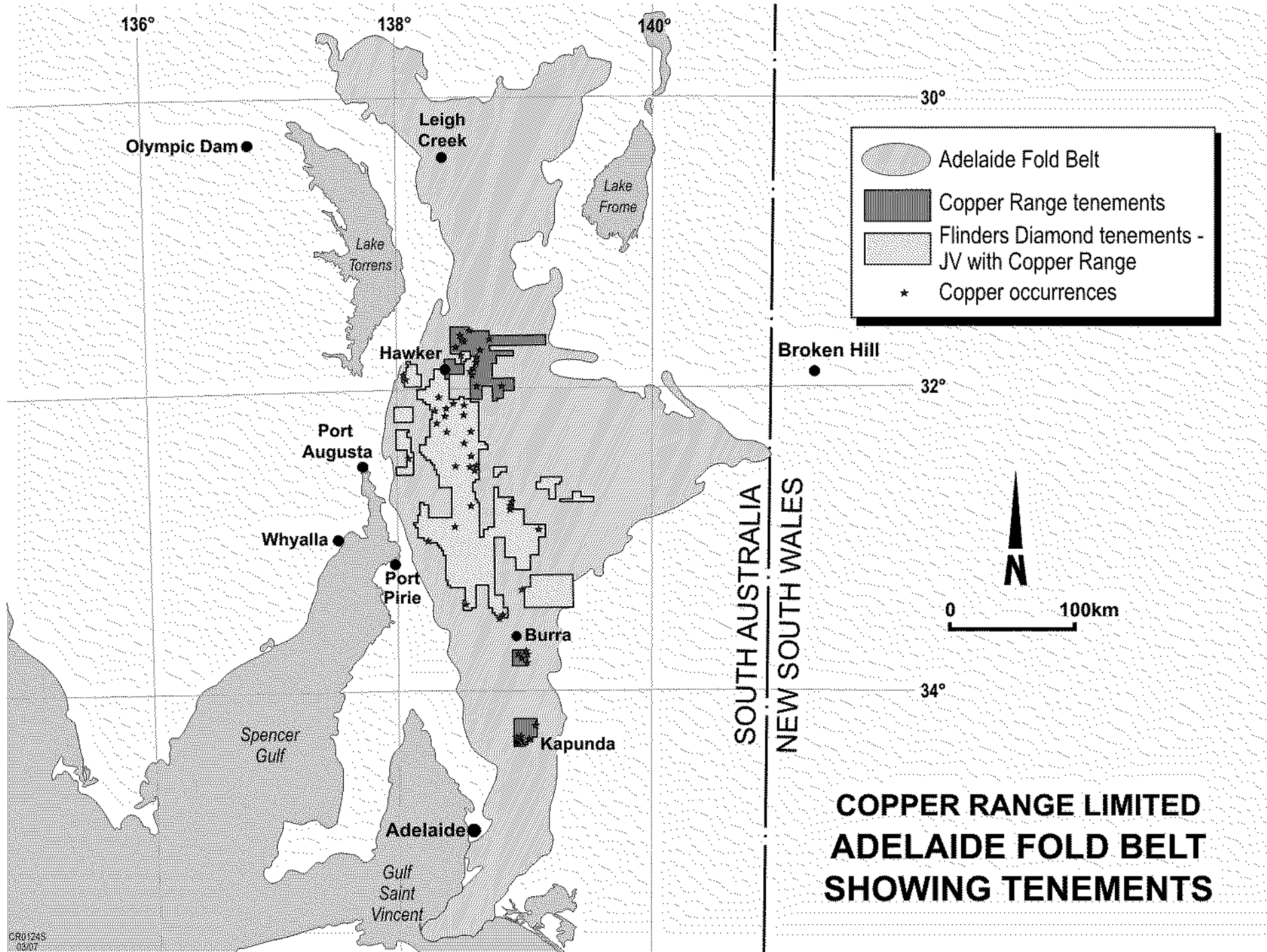
- **A rift-basin geological history with a thick sedimentary sequence**
- **Breccia diapirs derived from evaporites probably containing considerable salt**
- **Metal-bearing source rocks, including volcanics, from which copper could have been leached**
- **Reductant-bearing strata capable of precipitating copper from saline low temperature brines”**

- Dr Jon Thorson, January 2007



“The Adelaide Fold Belt (AFB) has high mineral potential that has been relatively unrecognised. A minimum of three copper-depositional events can be inferred - i.e. copper-bearing fluids migrated through the basin during several different episodes under different conditions. New radiometric dates confirmed that the AFB is correlative to the Central African Copperbelt, the world’s most important sediment-hosted stratiform copper district.”

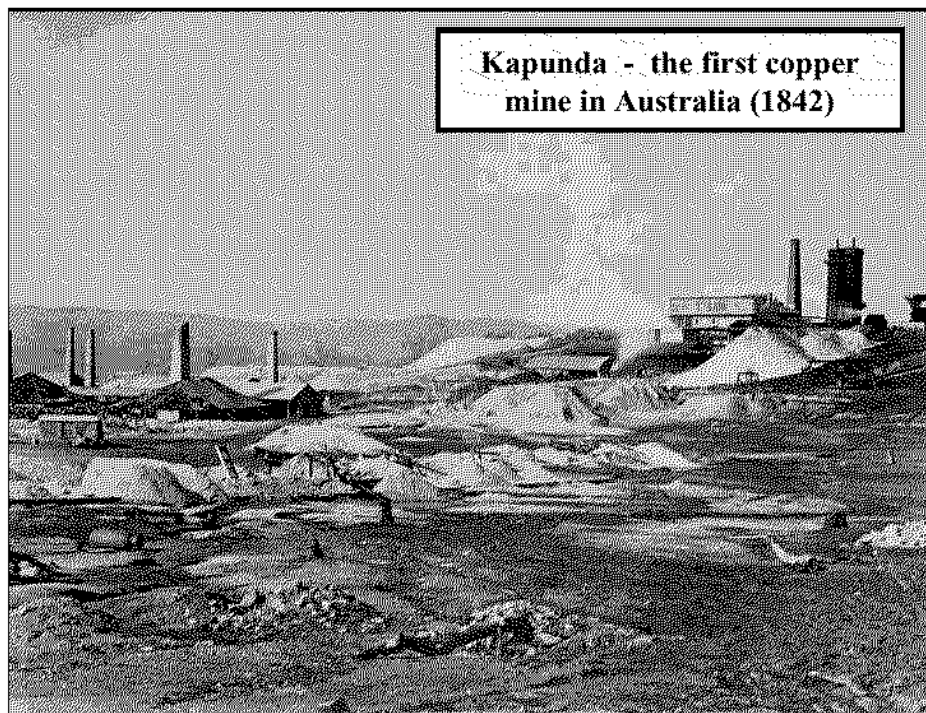
- Dr Rod Kirkham, January 2007



Kapunda Project

Copper Range is earning a majority interest in the Kapunda project area

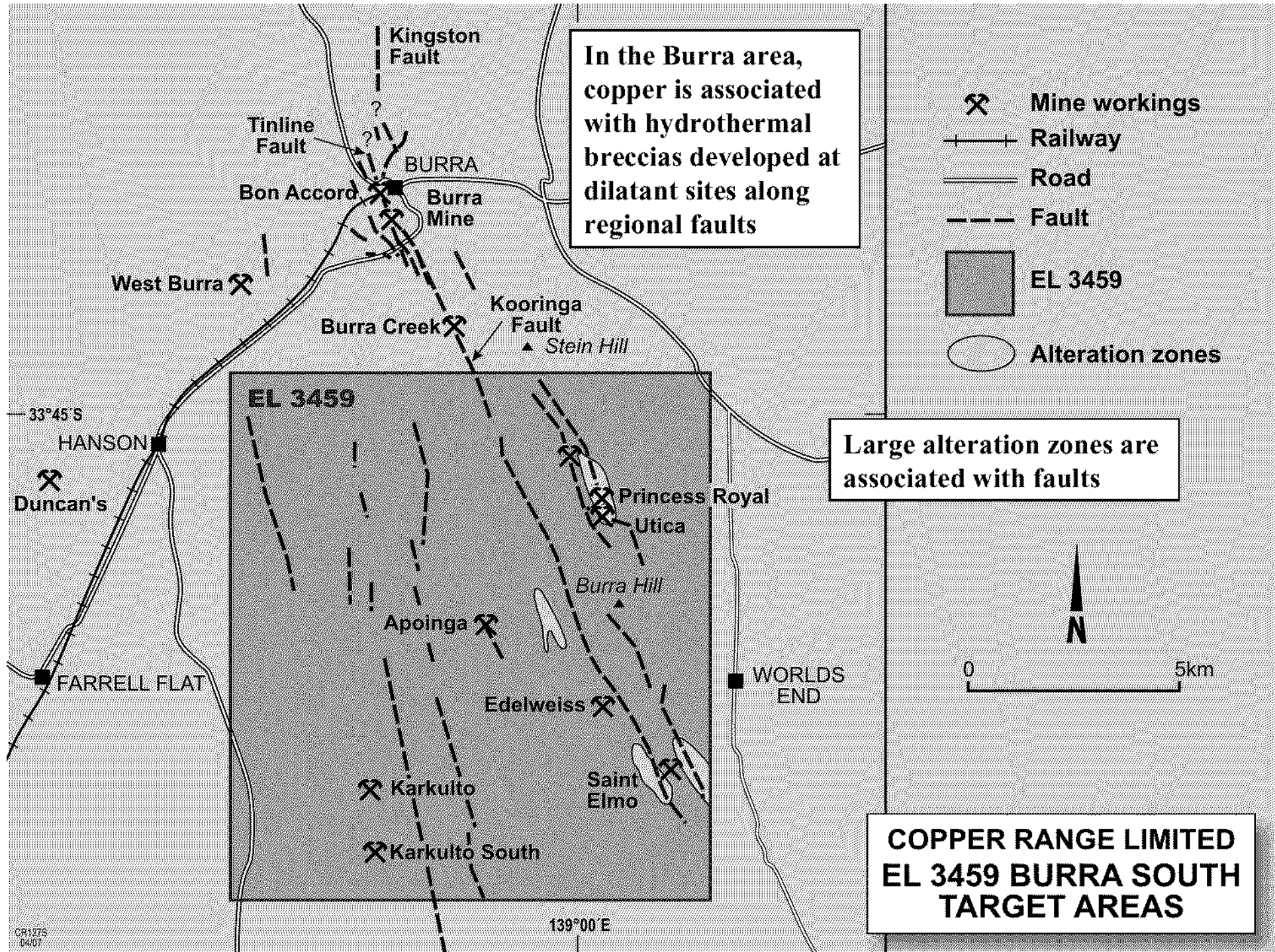
At the historic Kapunda mine, copper is hosted by sandstone & siltstone. High grade veins, worked in the 19th century, represent deformation-related remobilisation from the more broadly distributed stratabound copper



Kapunda - the first copper mine in Australia (1842)




Identified resource 4.3 Mt at 1.1% Cu within old workings, excellent potential to expand the resource base, and other targets to be tested

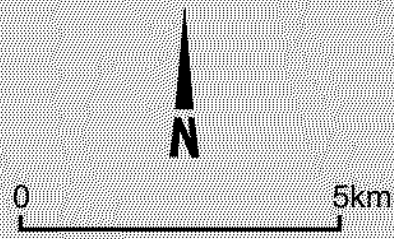


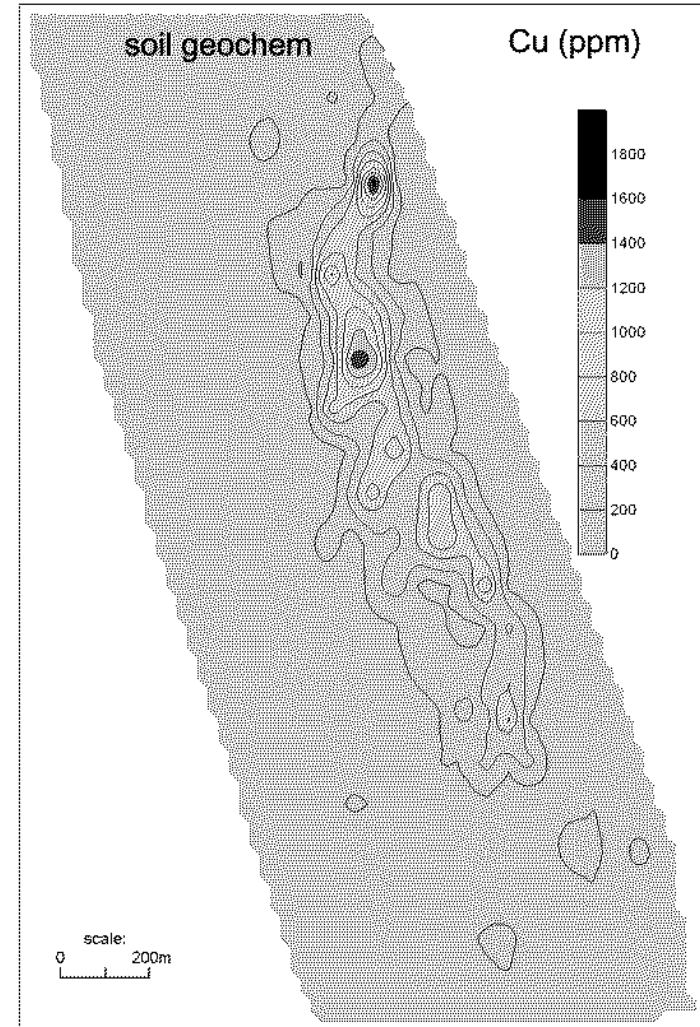
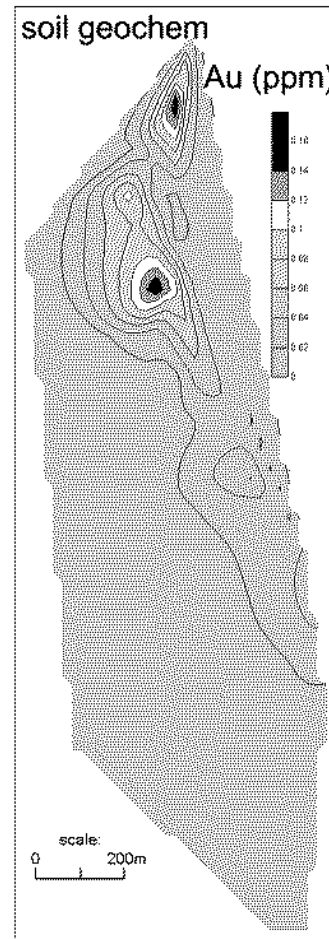
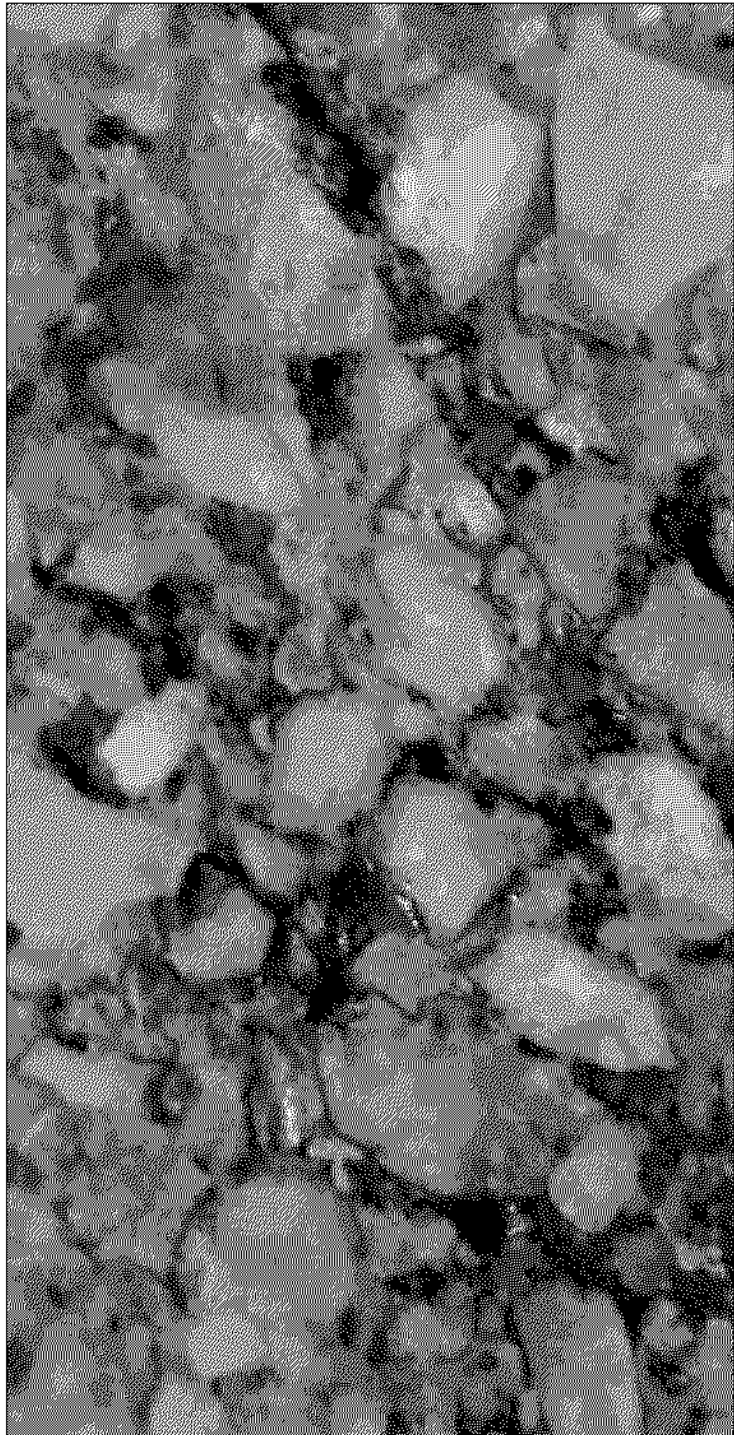
In the Burra area, copper is associated with hydrothermal breccias developed at dilatant sites along regional faults

Large alteration zones are associated with faults

**COPPER RANGE LIMITED
EL 3459 BURRA SOUTH
TARGET AREAS**

-  Mine workings
-  Railway
-  Road
-  Fault
-  EL 3459
-  Alteration zones





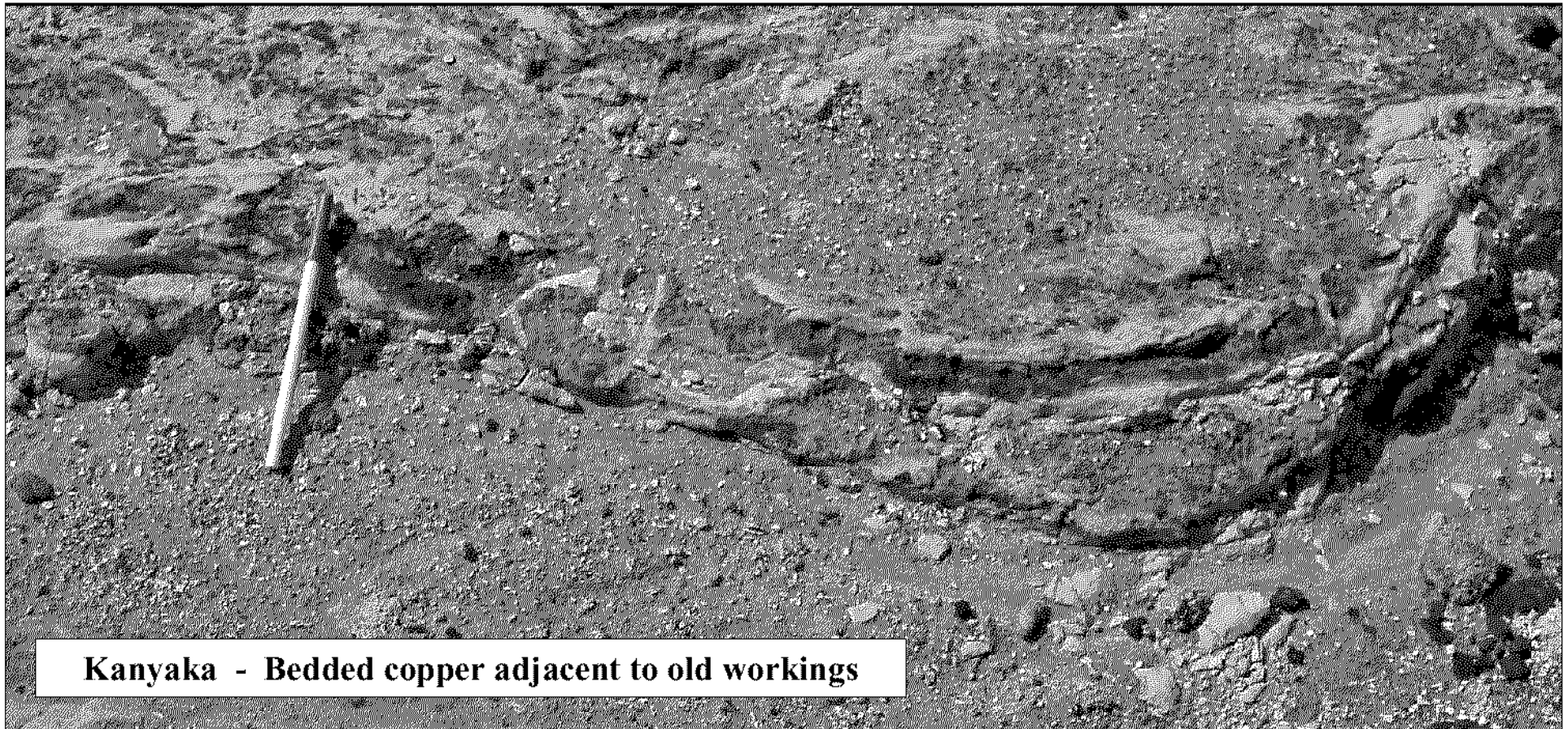
Burra Project

At the Princess Royal prospect, mineralisation, as displayed in old mine workings, consists of copper-bearing hydrothermal breccias. Geochemical surveys show the presence of gold & zinc as well as copper

Kanyaka Prospect

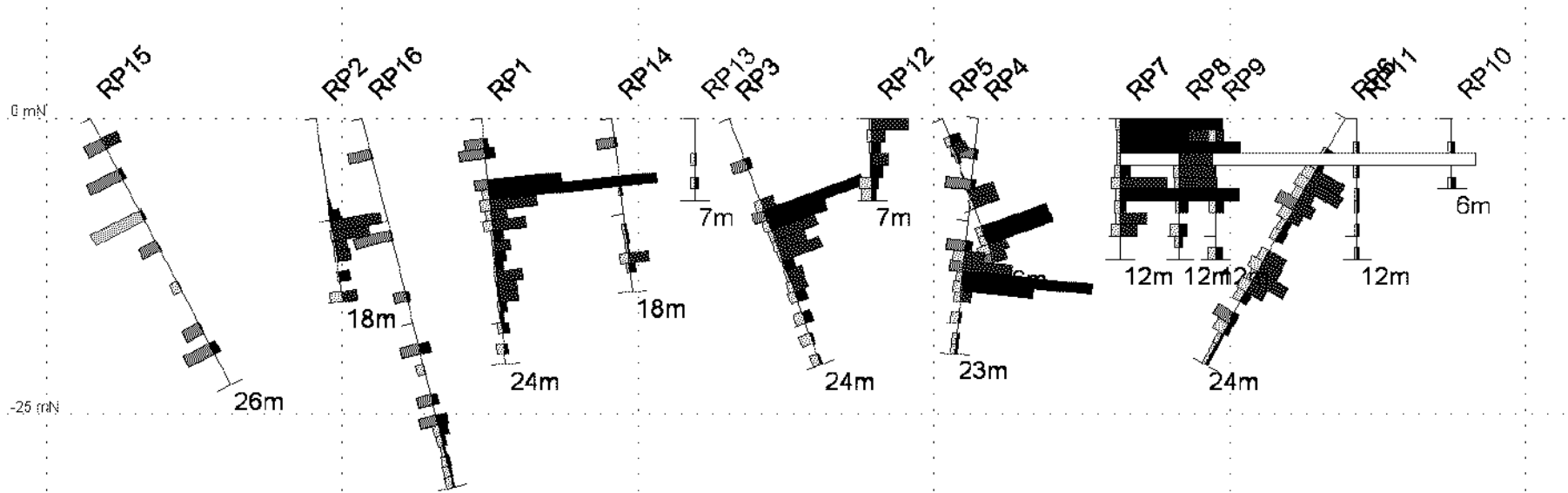
Mining records show that 20 tonnes of 30% oxide copper were removed in 1863; 200 tonnes at 7-17% in 1900; and 205 tonnes at 7-16% during 1904-1915

“Kanyaka is the best prospect examined. It is high-grade oxide copper over a significant width in a Kupferschiefer-type setting. It has potential for both an oxide copper operation and large-tonnage, high-grade hypogene copper operation” (Dr R Kirkham, Jan 2007)



Kanyaka - Bedded copper adjacent to old workings

Other Targets

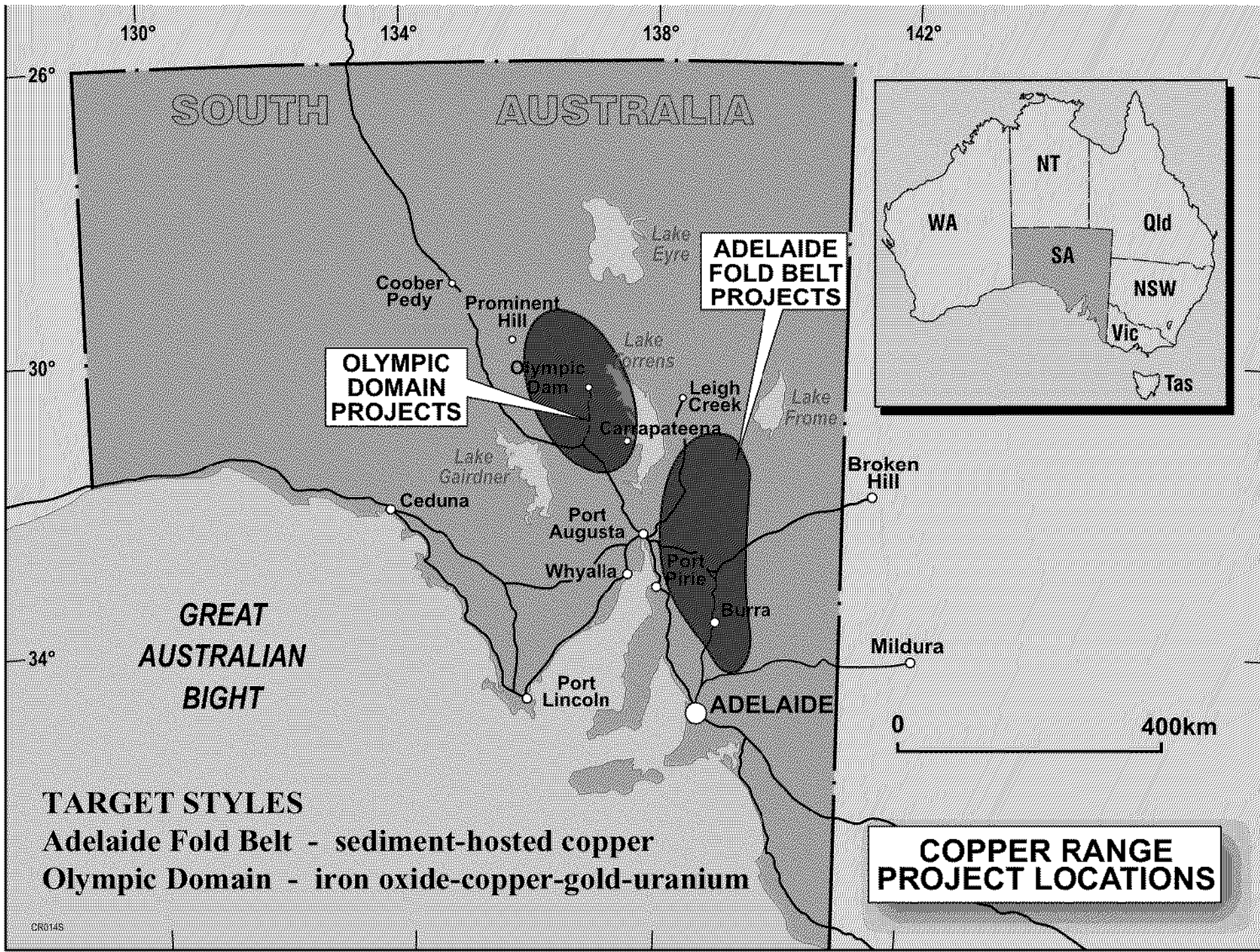


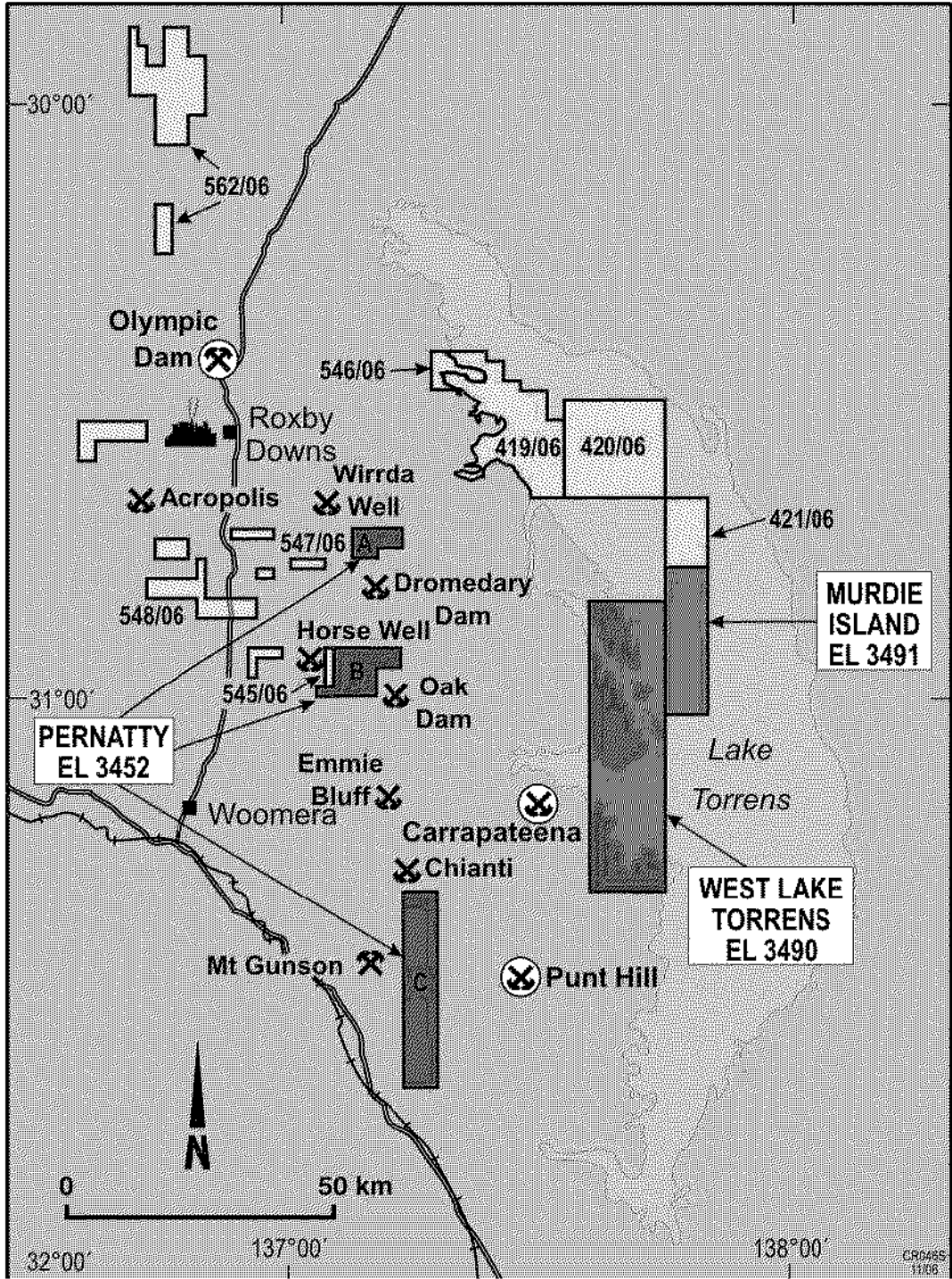
Radford Creek: Shallow oxide copper (up to 6% Cu) over 250m strike length. Max drill hole depth 36m


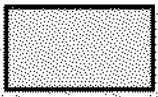



Wyacca: Disseminated copper in siltstone & quartzite. Outcropping hematitic rocks indicative of weathered chalcocite (Thorson, pers comm)

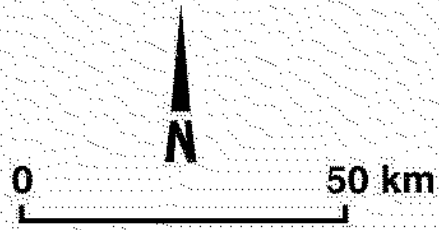
Birthday: Disseminated copper in quartzite and siltstone, considered by Thorson (2007) as similar to parts of the Lisbon Valley (Utah) copper system

Disraeli: Old pits dug on high grade vein copper. No previous exploration on adjacent bedded copper



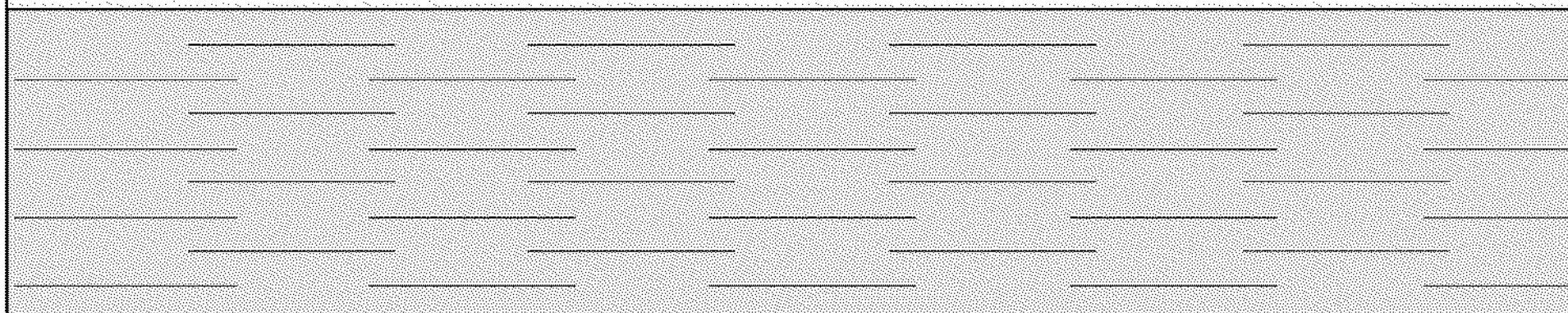


-  Copper Range tenements
-  EL Applications
-  Operating mine
-  Prospect
-  Copper smelter and refinery

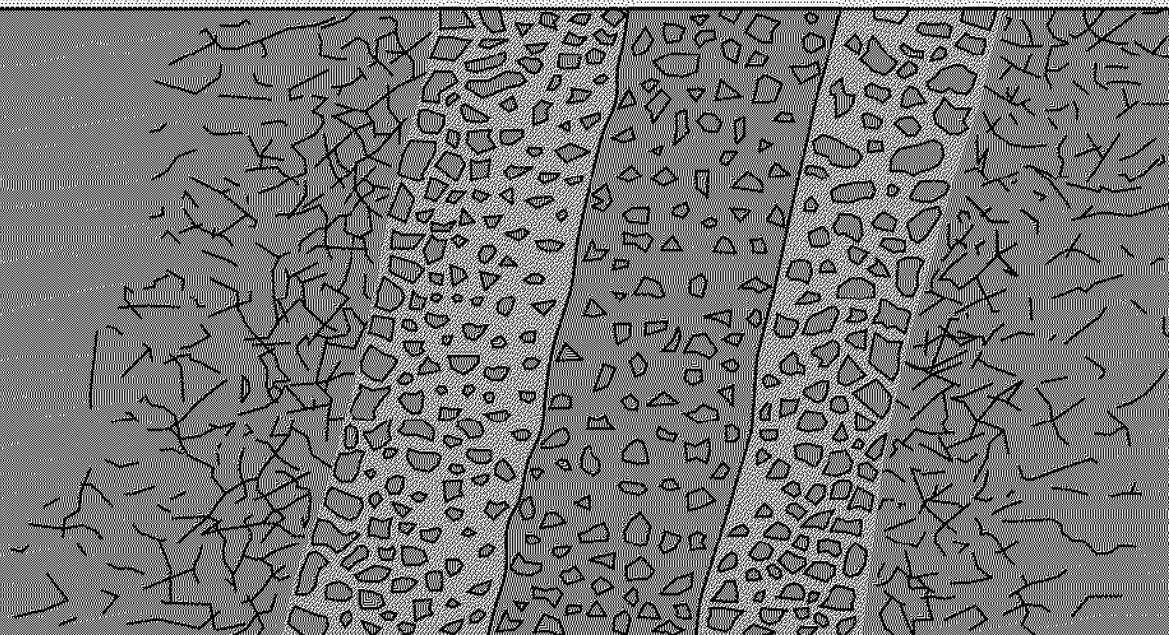







**COPPER RANGE LIMITED
OLYMPIC DOMAIN
TENEMENT LOCATIONS**

THE EXPLORATION CHALLENGE: DETECTING A DEPOSIT BENEATH DEEP COVER

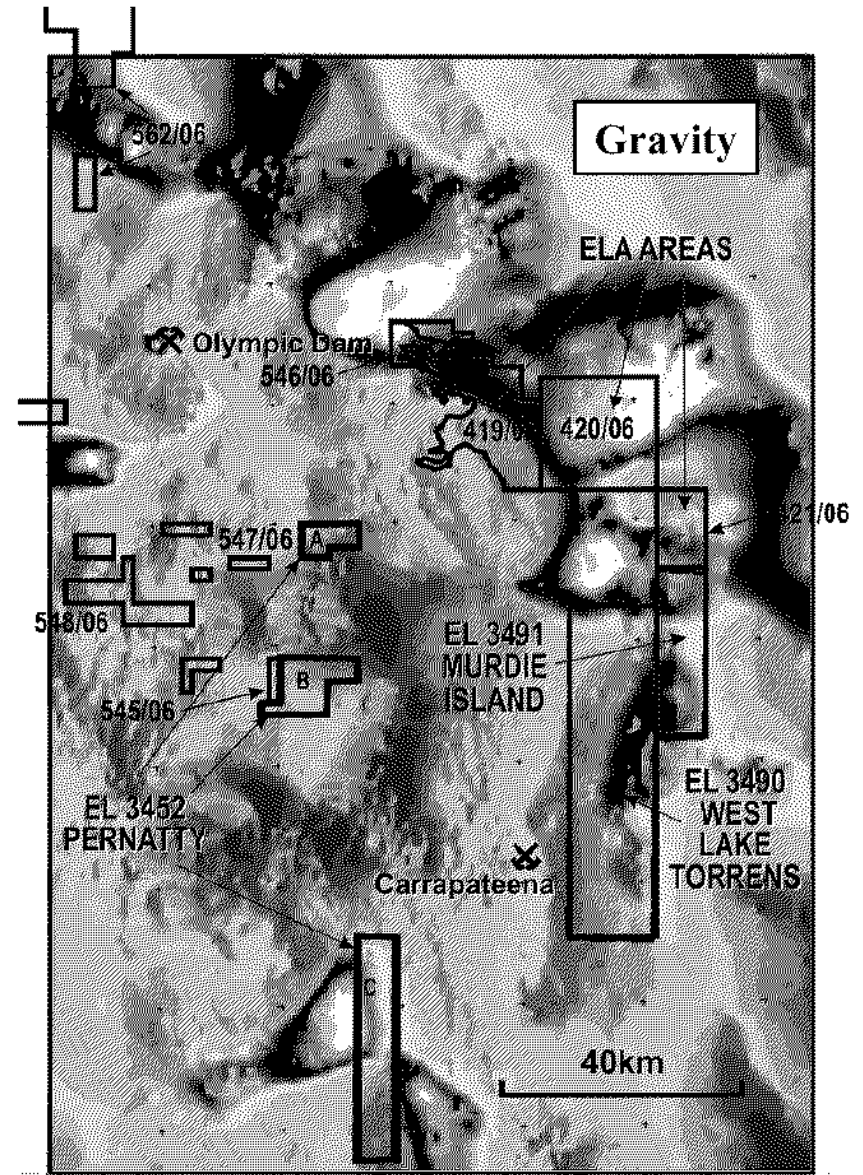
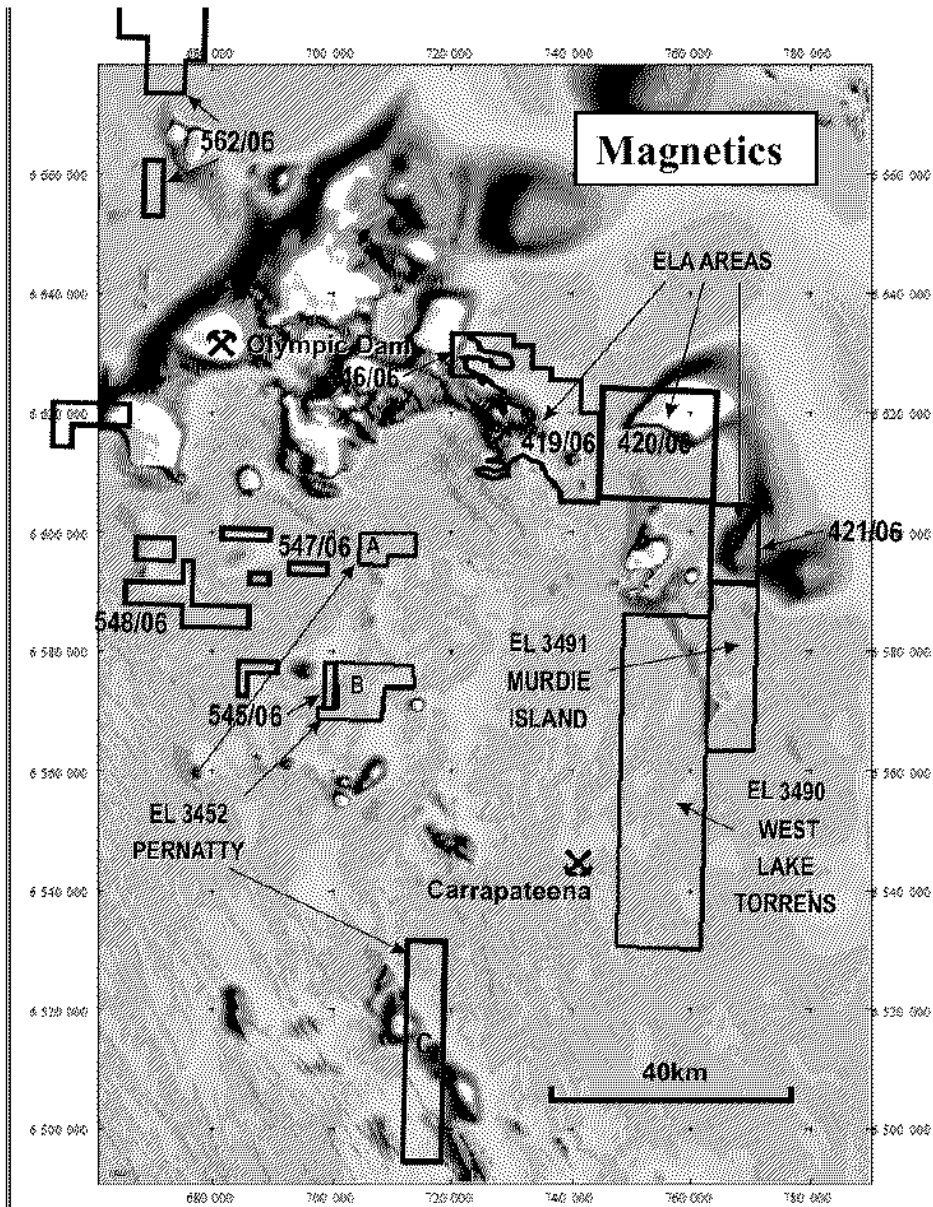


200m
Notional
Scale

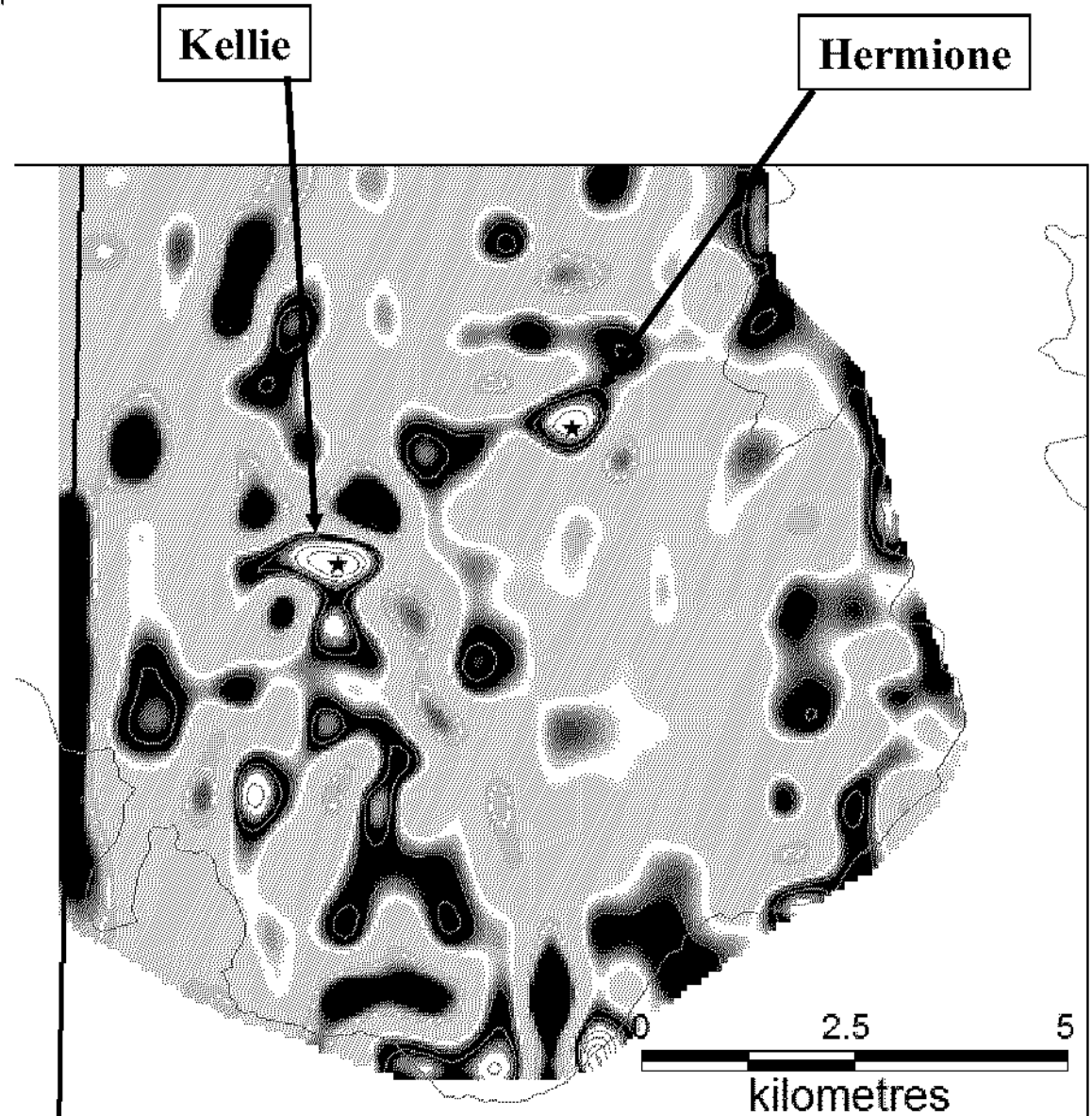
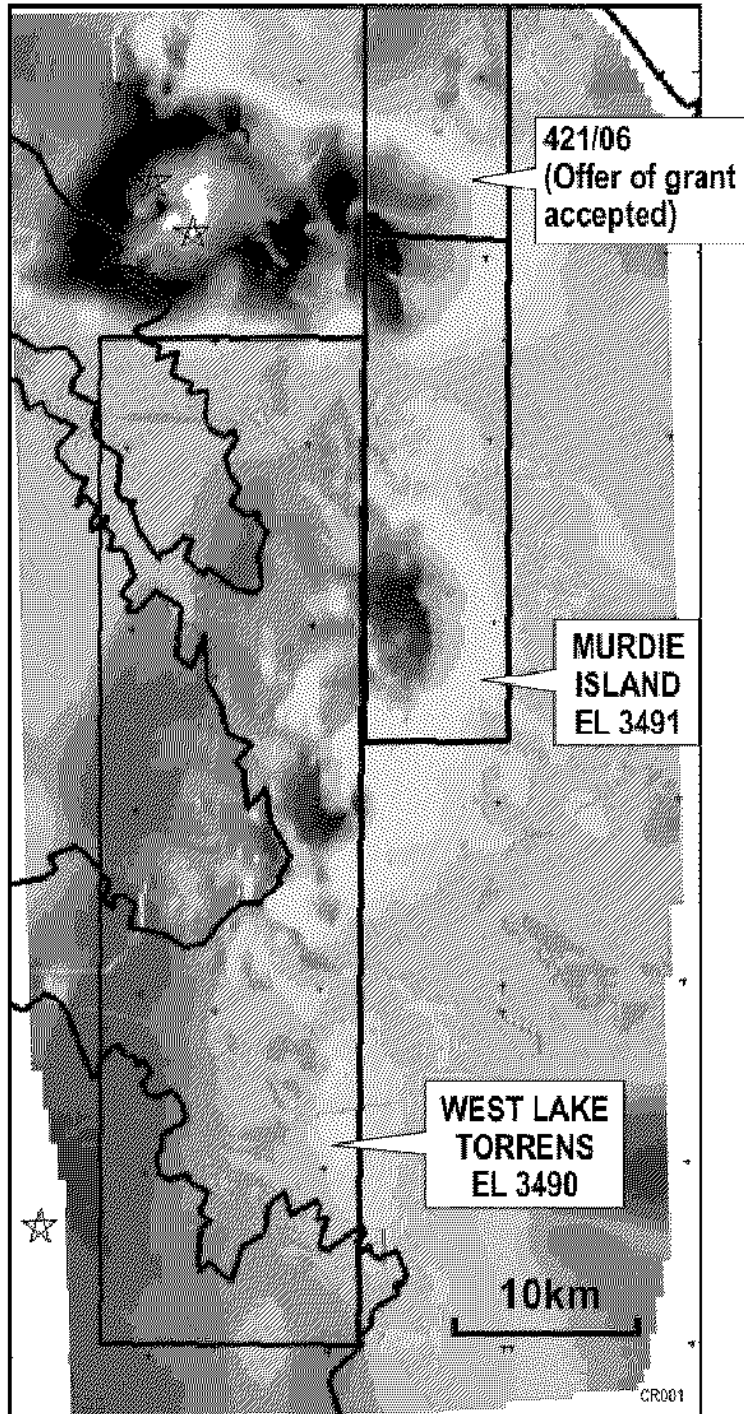


-  Stuart Shelf cover sequence
-  Hematite breccia with copper - gold + uranium
-  Barren hematite breccia
-  Middle Proterozoic basement rocks
-  Zone of alteration and veining

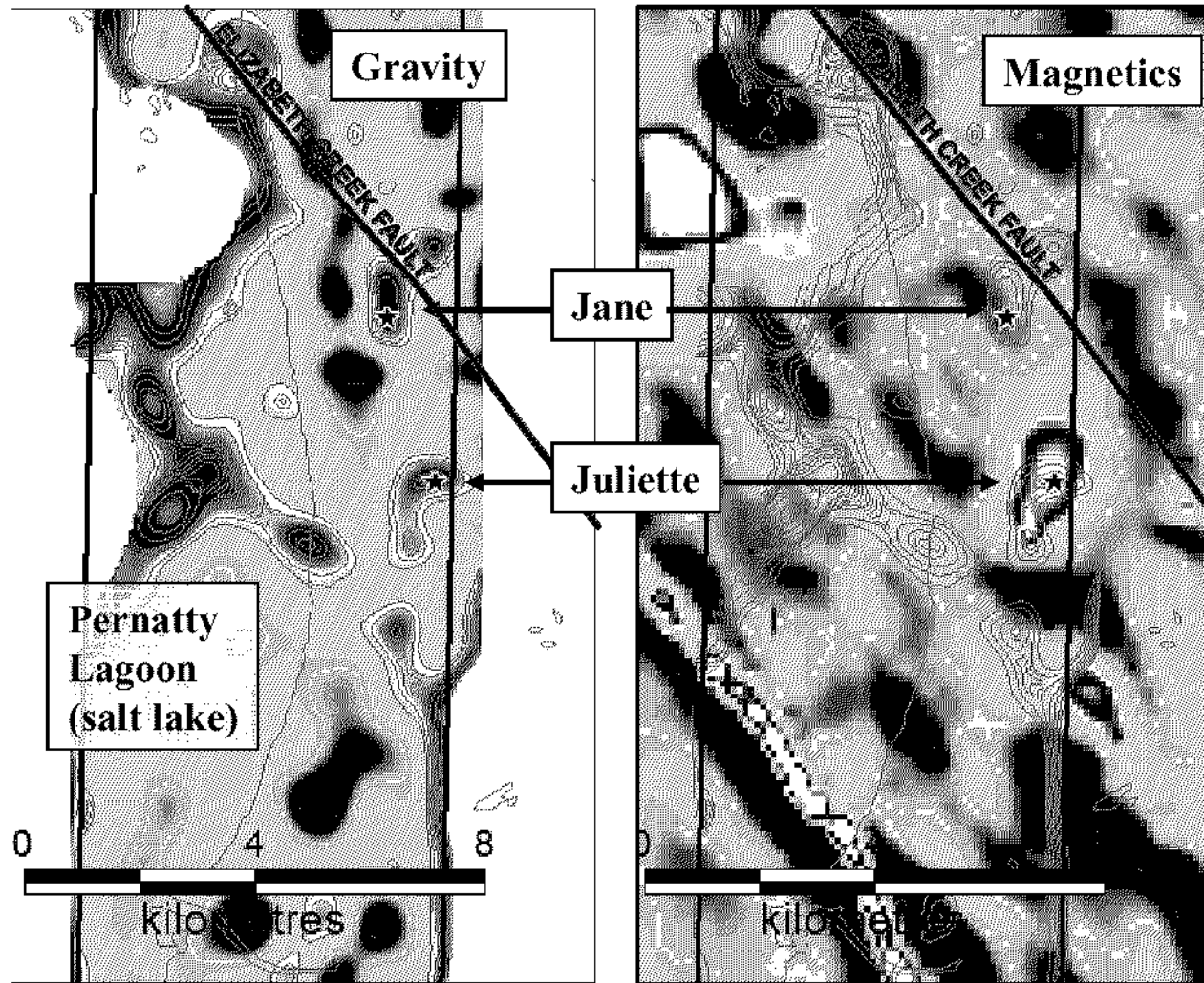
Regional Geophysical Data



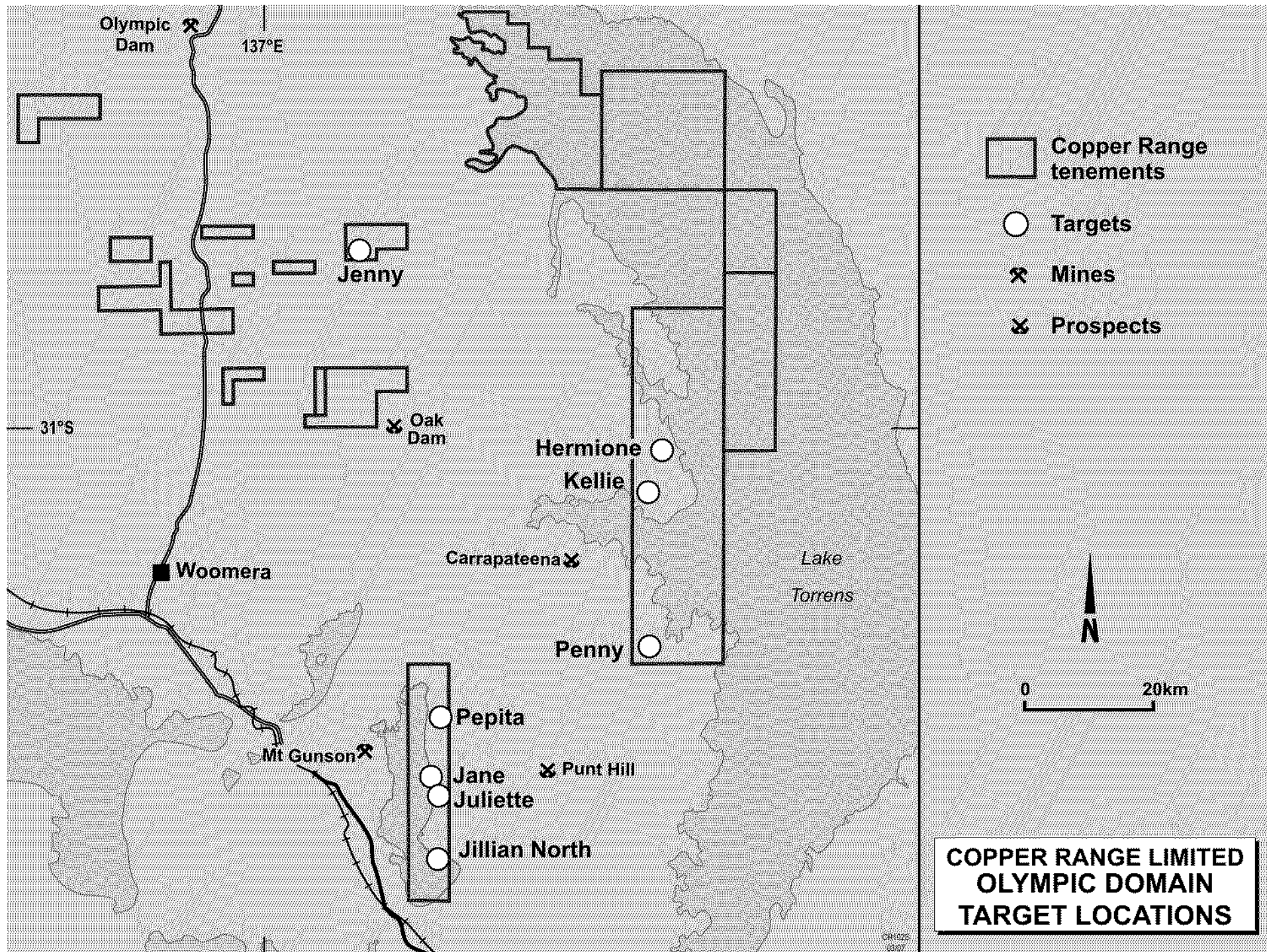
EL3490 West Lake Torrens

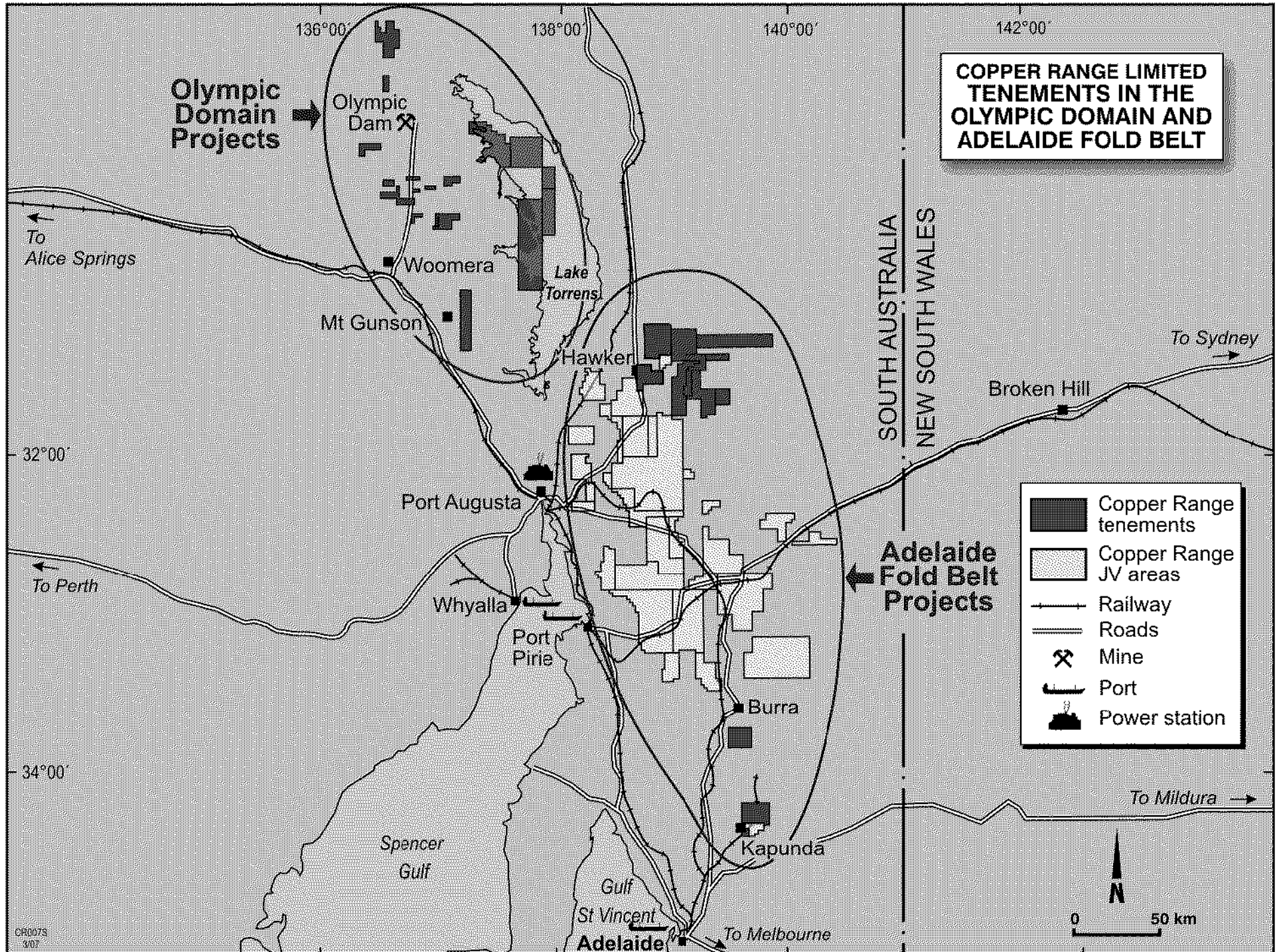


EL3452 Pernatty C - Jane & Juliette Targets



The 'Jane' target lies on a NW-trending basement fault - a metasomatic channelway during the hydrothermal event. Juliette is a combined gravity-magnetic feature lying ~ 2 km from the fault. Copper Range has government funding to test the targets







Summary

Strong tenement position in two highly prospective copper provinces in South Australia

In the Adelaide Fold belt -

- **Focus on Zambian-type copper targets**
- **Tenements cover 11,000 km²**
- **Copper resource at Kapunda**
- **Multiple targets to be tested**

In the Olympic Domain

- **Focus on IOCG targets**
- **Eight anomalies identified from gravity surveys**
- **Drilling to commenced in April 2007**

Strong technical team