

OUTOKUMPU EXPLORATION AUSTRALIA PTY LIMITED

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ANNUAL REPORT TO 26 MAY, 1992
EL 14/89 - CORINNA
Summary of Results and Interpretations
1991 Exploration Programme

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1. INTRODUCTION

EL 14/89, Corinna, covering 45 sq km, was granted to Outokumpu Exploration Australia Pty. Limited on 27th May 1989. The boundary was altered in April 1991 by the application for 19 sq km to the east and relinquishment of 19 sq km on the western side.

The Exploration Licence covers about 20km of strike length of the southern portion of the Arthur Metamorphic Complex between Lake Pieman in the south and West Plain in the north.

The objective of exploration is to evaluate the magnetic ironstones within the area for Cu-Au mineralisation, using an exploration model based on the Starra ironstone mineralisation of the Mt Isa Inlier.

2. WORK CONDUCTED TO DATE

Following a review and assessment of all previous exploration activities in the area, it was concluded that the scattered weak base metal anomalies did not warrant follow-up and activities should concentrate on developing and enhancing a genetic model on which to base further exploration.

On the basis of a possible analogue to the Starra type Cu-Au deposits, it was determined that the ironstones should become the focus for investigations.

Accordingly, the following exploration work was undertaken:-

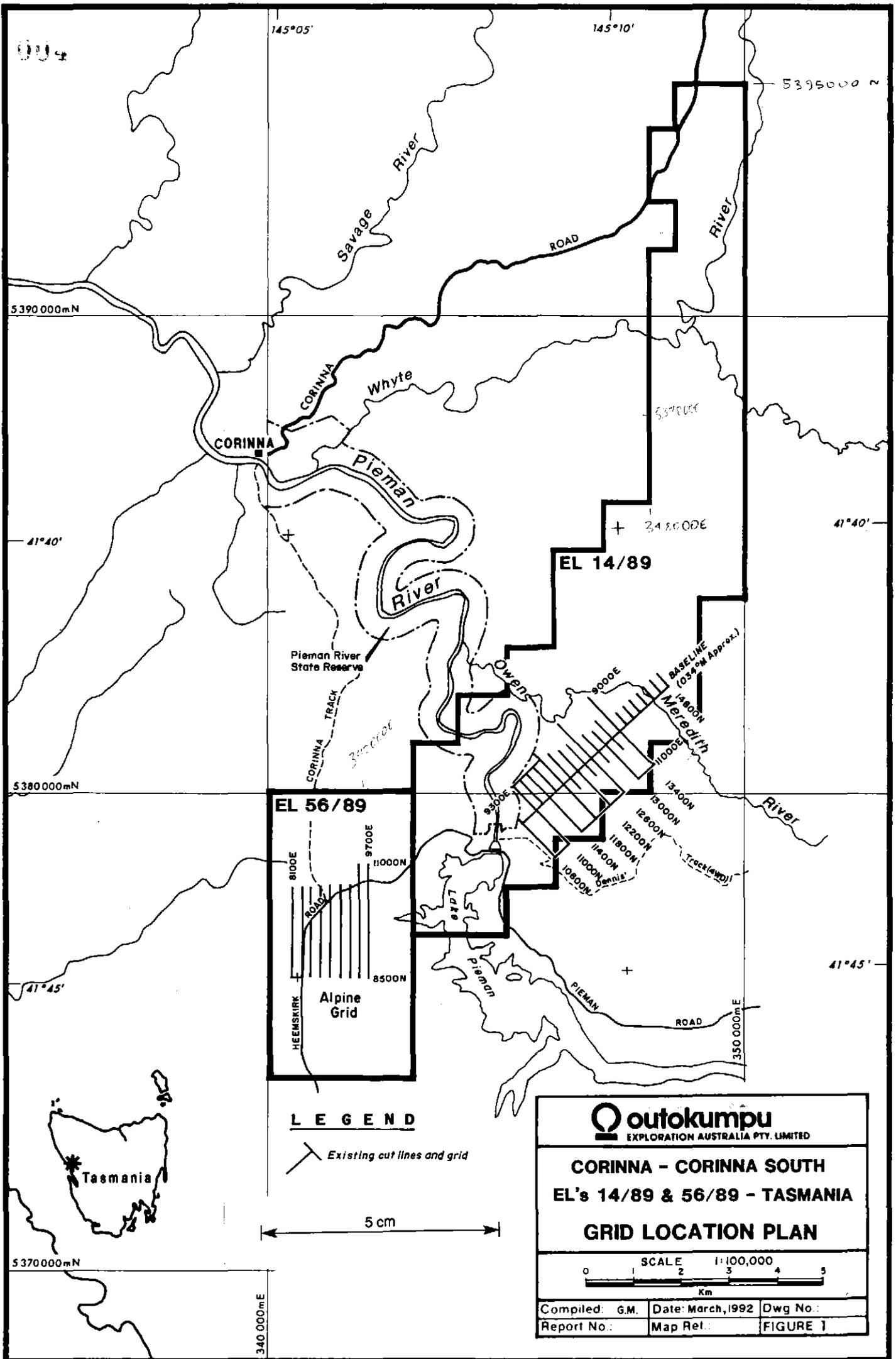
- * New grid system established, with NW-SE crosslines at 200m intervals over the Bowry Member north-east from Reece Dam to the ironstones in Doctors Creek and in the Owen Meredith River.
- * Geological mapping and rock chip sampling of all grid lines, strategic creek traverses and exposures in road cuttings around Reece Dam and along Heemskirk Road for some 1.5km to the west.
- * Petrographic study of rock specimens to assist the geological interpretation.
- * A ground magnetometer survey at 5m station spacing on the grid.
- * Collection of over 400 B/C horizon soil geochemical sampling at 25m intervals across the Bowry Member on all lines between 11,000N and 13,400N; and analysis for Cu, Pb, Zn, Au.

3. SUMMARY & CONCLUSIONS

The work on the Owen Meredith Grid has outlined the prospective ironstone sequence at the base of the Bowry Member and demonstrated its copper-gold affinities from the soil anomalies (up to 500 ppm Cu and 0.37 ppm Au) and in selective rock chips at Doctors Creek indicating low bulk grades at the surface of 10m at 0.12% Cu and 0.045 g/t Au and up to 0.5% Cu and 0.29 g/t Au in selective rock chip samples.

More intensive work is now warranted to delineate the more prospective copper gold areas, to define more closely the genetic model by:-

- * Detailed mapping and sampling of the ironstones at Rocky River and Doctors Creek and in the intervening areas. Paying particular attention to areas of structural complexity, stratigraphy, facies variation and alteration patterns in the ironstones especially in the Doctors Creek area where dolomites and magnesites along strike from thick magnetite rich rocks could be facies variations related to a possible exhalative centre.
- * EM surveying of the geochemically anomalous areas to attempt to locate deep conductive zones.
- * Drilling of the magnetite rich areas with coincident copper gold soil and rock chip anomalies.
- * Continuation of the exploration of the ironstones along the Arthur Metamorphic Complex.



LEGEND

Existing cut lines and grid

5 cm

Outokumpu
EXPLORATION AUSTRALIA PTY. LIMITED

**CORINNA - CORINNA SOUTH
EL's 14/89 & 56/89 - TASMANIA
GRID LOCATION PLAN**

SCALE 1:100,000
0 1 2 3 4 5
Km

Compiled: G.M.	Date: March, 1992	Dwg No.:
Report No.:	Map Ref.:	FIGURE 1