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GEOPEKO

A DIVISION OF PEKO WALLSEND OPERATIONS LIMITED

A.C.N. 000 081 434

MICROFILMED
FICHE No. 012387

EL 42/89 RAPID RIVER

REPORT ON

EXPLORATION ACTIVITY

DECEMBER 1990 TO NOVEMBER 1991

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Ian Mathison
December, 1991

T262

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Geopeko, Devonport
DMMR, Hobart

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Figure 1 Location and Access

1.0 INTRODUCTION

1.1 Location and Access (Fig. 1)

EL 42/89, Rapid River, is located in NW Tasmania approximately 35 km to the south of the coastal town of Smithton.

Access within the EL is poor and is restricted to the Savage River Pipe Line Road and unsealed logging roads which run along the eastern and western EL boundaries respectively. The central portion of the EL is largely inaccessible and access requires the cutting of walking tracks and helicopter support.

1.2 Tenure and Land Usage

EL 42/89 of 230 km² was granted to Peko Exploration Ltd in January 1990. It was reduced to 54 km² in December 1990.

The EL consists of State Forest. It includes part of the Savage River, Australian Heritage Commission Act, Registered Entry.

Tracts of wet eucalypt forest within the State Forest in the western and far northern areas of the EL have been intensively logged over the past 10 years. These areas now either lie devoid of vegetation or support thick regrowth. Large stretches of buttongrass-tea tree plains occur over the eastern and western boundary areas. Vegetation over the rest of the EL is generally comprised of wet eucalypt forest, often with a thick undergrowth.

1.3 Regional Geology

Geopeko's block of Arthur River ELs lies within the Rocky Cape Region of NW Tasmania. The most interesting rocks in the area are those of the Precambrian Arthur Lineament. The Arthur Lineament is a north-east trending metamorphic belt consisting of highly deformed sediments, basic volcanics and dolomite. To the west of this belt lies the Rocky Cape Group, a thick shallow marine shelf sequence. The Rocky Cape Group contains Precambrian dolerite/gabbro dykes which have been emplaced into north-north west trending faults.

Rocks assigned to the Oonah Formation and the Cleveland Waratah Association lie to the east of the Arthur Lineament. The Precambrian Oonah Formation is predominantly comprised of turbiditic quartz wacke and siltstone. The south eastern corner of the area is underlain by rocks of the Cleveland-Waratah Association that lie within the Dundas Trough. These rocks have been correlated with the Crimson Creek Formation and consist of basaltic, andesitic and tholeiitic lavas and volcanoclastic sediments.

The Precambrian-Cambrian rocks along the eastern edge of the area are in places overlain by Permian fluvio-glacial sediments and/or Tertiary basalt.

1.4 Known Mineral Deposits/Occurrences

There are a number of metallic mineral occurrences adjacent to the western, eastern and southern EL boundaries of Geopeko's Arthur River Project. (Green et Al 1988).

The deposits range from small, relatively insignificant workings, e.g. Victory Mine, Atlas Leases to large world class ore bodies e.g. Mt Bischoff, Savage River. In most cases, extensions of the prospective host formations can be continued into Geopeko's Arthur River EL's.

1.5 Previous Exploration

Geopeko Report T252 (Virgoe and Mathison, 1990) summarizes previous exploration and details Geopeko's 1990 exploration.

2.0 EXPLORATION ACTIVITY

Due to major problems with the DMMR's analytical techniques for stream water geochemistry, no work was carried out in EL 42/89 in the year. It was felt necessary to suspend exploration until these problems were corrected and consequently a waiver of expenditure commitments was sought and granted.

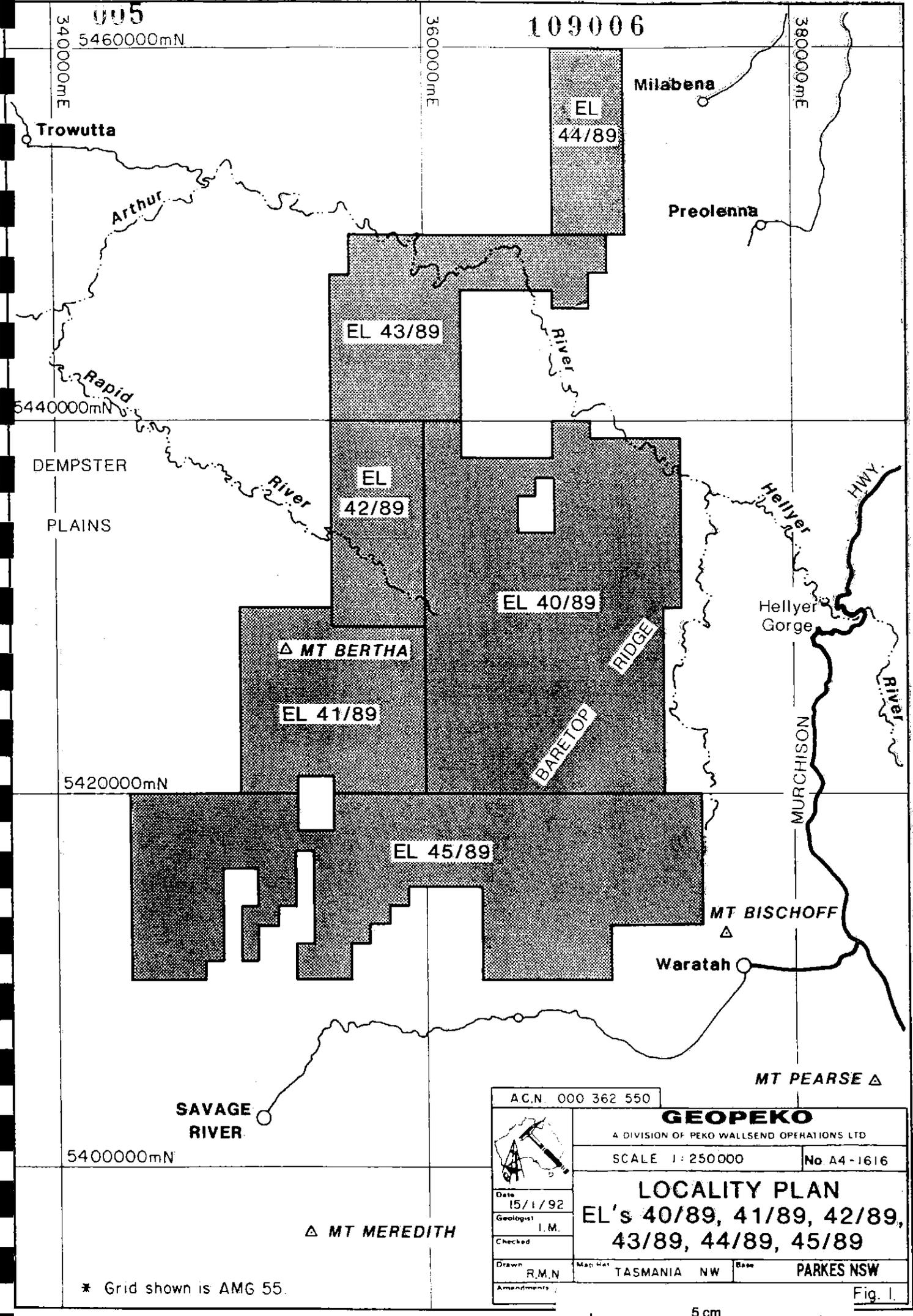
3.0 RECOMMENDATIONS

The exploration program in this area should be delayed until the DMMR's problems with the Huminex analytical technique have been resolved. No part of this EL should be relinquished until reconnaissance exploration has been completed.

REFERENCE:

GREEN, G.R., BOTTRILL, R.S., BACON, C.A., TURNER, N.J. (1988) -
Mineral Deposits and Metallogenic Map of Tasmania
1:50 000, Tas. DMMR

MATHISON, I.J., VIRGOE, K. (1990) - Rapid River EL 42/89 -
Report on Exploration Activity - January 1990 to November 1990.
Unpublished Geopeko report T252.



095
5460000mN

109006

380000mE

360000mE

340000mE

Trowutta

Milabena

Preolenna

Arthur River

EL 44/89

EL 43/89

5440000mN

DEMPSTER PLAINS

EL 42/89

EL 40/89

△ MT BERTHA

EL 41/89

BARETOP RIDGE

Hellyer HWY

Hellyer Gorge

MURCHISON

5420000mN

EL 45/89

MT BISCHOFF
△

Waratah

SAVAGE RIVER

MT PEARSE △

5400000mN

△ MT MEREDITH

A.C.N. 000 362 550		GEOPEKO	
A DIVISION OF PEKO WALLSEND OPERATIONS LTD		SCALE 1:250000	No A4-1616
LOCALITY PLAN			
EL's 40/89, 41/89, 42/89, 43/89, 44/89, 45/89			
Date	15/1/92	Map No	TASMANIA NW
Geologist	I.M.	Base	PARKES NSW
Checked		Amendments	
Drawn	R.M.N.		

* Grid shown is AMG 55.

5 cm

Fig. 1.