

GEOPEKO

A DIVISION OF PEKO WALLSEND OPERATIONS LIMITED

A.C.N. 000 081 434
MICROFILMED
 FICHE No. 012389-

EL 45/89 SAVAGE RIVER

REPORT ON

EXPLORATION ACTIVITY

DECEMBER 1990 TO NOVEMBER 1991

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MICROFILMED

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Ian Mathison
 December, 1991

T265

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INTRODUCTION

Location and Access (Fig. 1)

EL 45/89, Savage River, is located in NW Tasmania approximately 5 km north of the townships of Savage River and Luina.

Access within the eastern half of the EL is good and is provided by the Savage River Pipe Line Road, old exploration tracks and an unsealed logging road. The western half of the EL is relatively inaccessible and access requires the cutting of walking tracks.

Tenure and Land Usage

EL 45/89 of 239 km² was granted to Peko Exploration Ltd in January 1990.

The EL consists predominantly of Uncommitted Crown Land with approximately 4 km² of State Forest and 1 km² of Timber Reserve. Vegetation within the EL is generally comprised of moderately open, wet eucalypt forest. It includes part of the Savage River Australian Heritage Area.

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 of Eo-cambrian age.

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

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.

Previous Exploration

Geopeko report T251 (Virgoe and Mathison, 1990) summarizes previous exploration and describes results of Geopeko's 1990 Exploration program.

EXPLORATION ACTIVITY

Aims

The aim of Geopeko's exploration of EL 45/89 is to use water sampling, rock chip sampling, geological mapping and the resultant previous exploration to delineate prospective and geochemically anomalous areas within the EL. Areas worthy of further investigation will be followed up with more detailed exploration.

Due to major problems with the DMMR's analytical techniques for stream water geochemistry, no field work was carried out in EL 45/89 in the year. It was felt necessary to suspend exploration until these problems were corrected and consequently a waiver of the expenditure commitment for 1991 was sought.

Geochemistry

Stream Sediment Compilation

A compilation of stream sediment base metal data within EL 45/89 by previous companies in the area has been undertaken.

Comstaff collected a large number of stream sediment samples from this area. Results have been entered into a database but have not yet been sorted or plotted.

All samples were sieved to -80# and assayed for base metals using AAS techniques.

CONCLUSIONS

- * Insufficient exploration has been conducted in this EL.
- * The combination of known mineralization, aeromagnetic and gravity features, and a wide range of geological environments indicate that this area is worthy of further exploration.

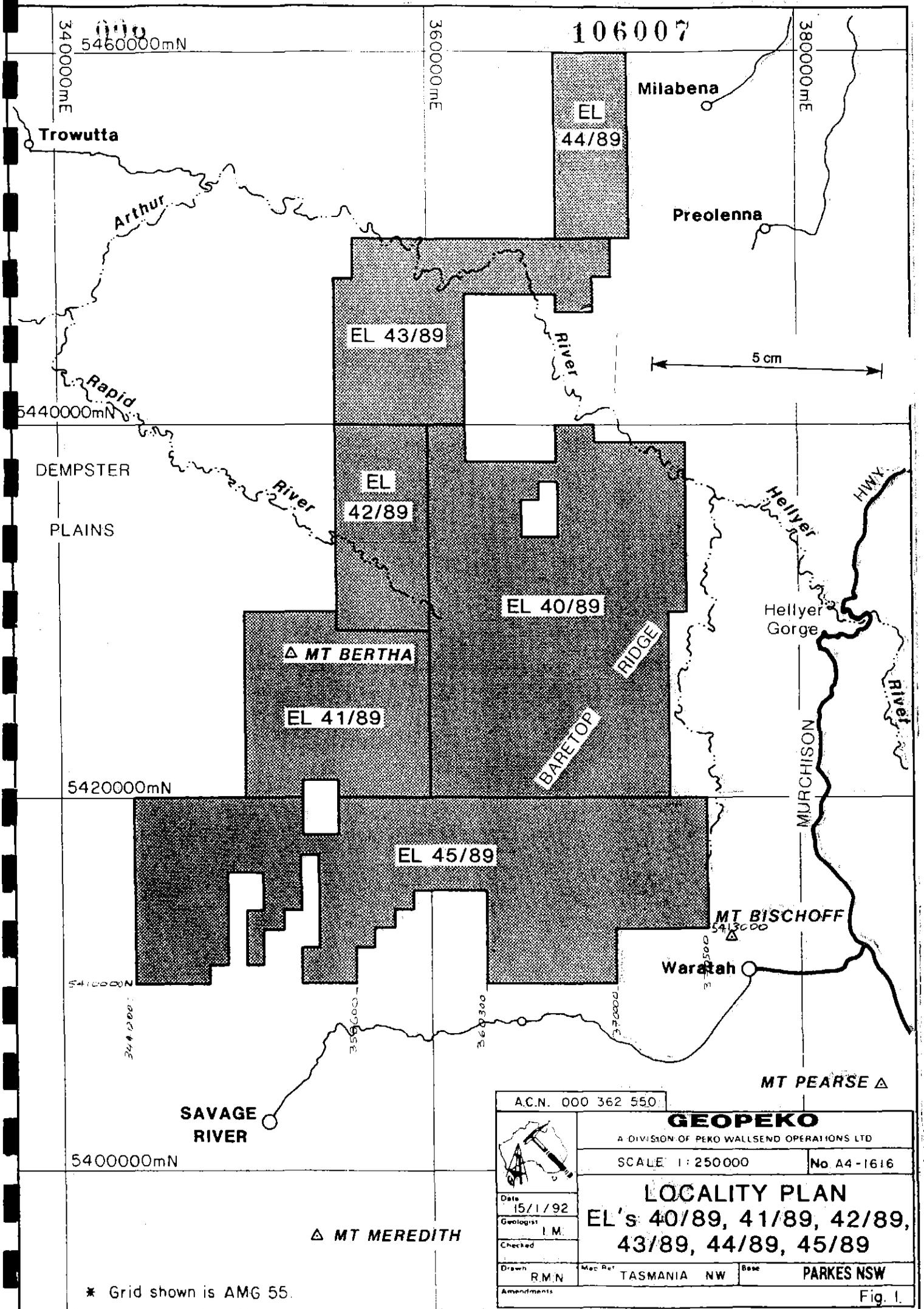
RECOMMENDATIONS

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) - Savage River EL 45/89 -
Report on Exploration Activity - January 1990 to November 1990.
Unpublished Geopeko report T251.



* Grid shown is AMG 55.

AC.N. 000 362 550			
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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		
Geologist	I.M.		
Checked			
Drawn	R.M.N.	Map Ref	TASMANIA NW
Amendments		Base	PARKES NSW
			Fig. 1.