

GEOPEKO LIMITED

TENNANT CREEK

A DIVISION OF PEKO-WALLSEND OPERATIONS LIMITED

ANNUAL REPORT ON

EXPLORATION LICENCE 1009

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SEPTEMBER, 1979

NORTHERN TERRITORY  
GEOLOGICAL SURVEY

CR79/187

## ANNUAL REPORT ON EXPLORATION LICENCE 1009

### 1. INTRODUCTION

Exploration Licence Number 1009 held by Peko mines was granted on 8th August, 1978. It covers an area of 129.5 square kilometres in the Lander River Locality and was applied for on 6th December, 1973. The coordinates of the north western corner of the Licence area are 20° 17'S., 133° 12'E.

Access to the area from Tennant Creek is difficult and is probably best obtained by following the seismic survey tracks westwards from the Stuart Highway at Wauchope. One of these tracks terminates just south of the south eastern boundary of the Licence area. No roads or tracks exist within the Licence boundaries.

### 2. EXPLORATION PHILOSOPHY

Outcrops of Hanson River Bed Group Rocks are numerous in the southern third of the Licence Area. These are primarily sandstones, calcareous sandstones and dolomites and are thought to unconformably overlie rocks of the Warramunga Group which host the Tennant Creek type orebodies.

A low level areomagnetic survey flown in 1973 detected several magnetic anomalies.

Ground follow up of these anomalies was planned in order to evaluate the likelihood of them reflecting Tennant Creek type ore bodies.

### 3. GROUND GEOPHYSICS

A ground magnetometric survey was planned and initiated in May 1979.

However, due to unseasonal rains access to and mobility within the Licence area was restricted. (Most of the northern half of the Licence area is swamp).

The vehicle mounted magnetometer and navigational system was damaged and repairs not affected in time to complete the first year program.

### 4. EXPENDITURE

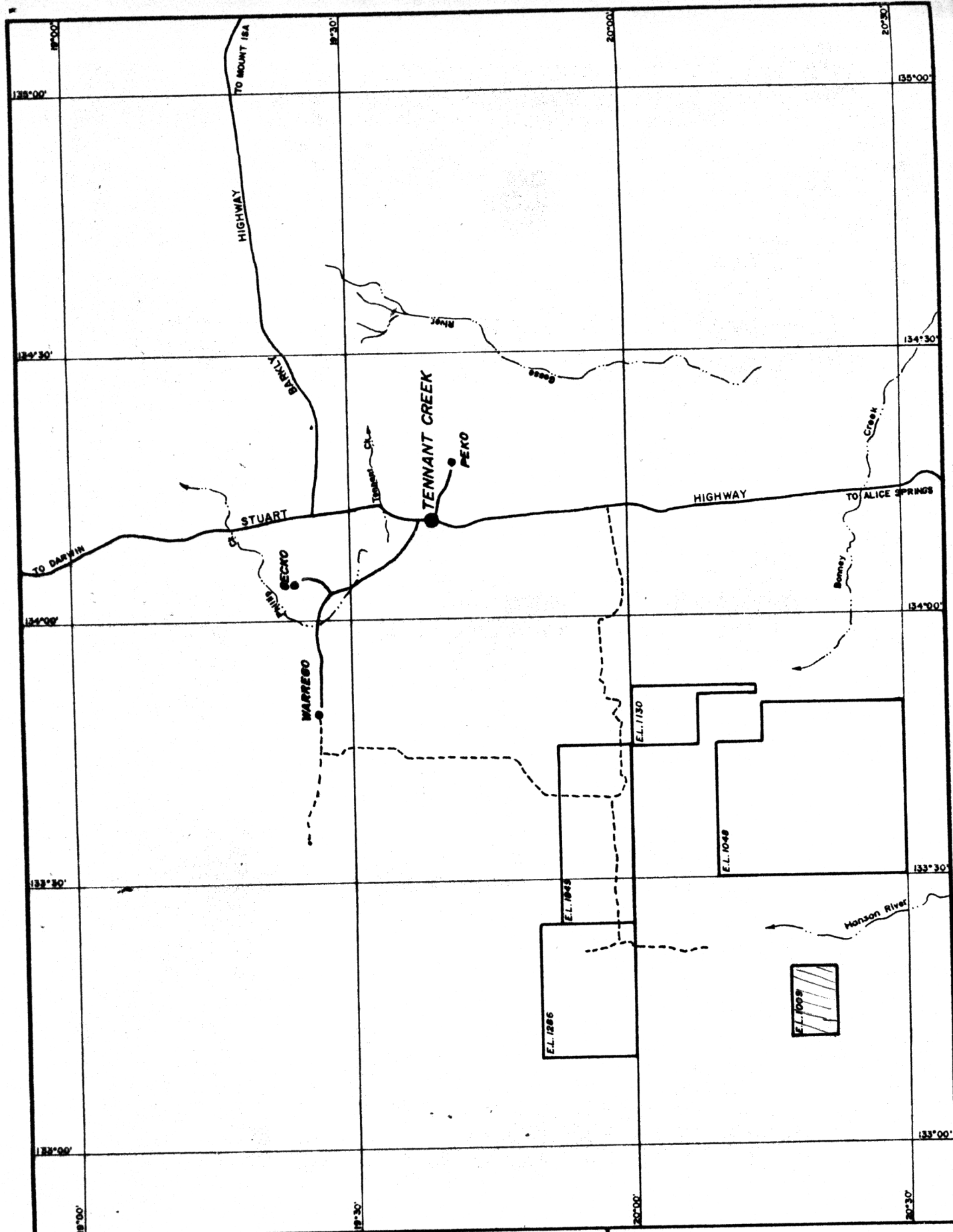
Expenditure for the 12 months ending 7th August, 1979 was \$3100.00

Breakdown of the expenditure is as follows.

Ground Geophysics	\$766
Reinterpretation of Airborne Geophysics	\$2183
E.L. Renewal Fees	\$100
Administration	\$51
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	\$3100

J.V. MAIN  
Supervising Geologist

JVM:WIW



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LICENCE BOUNDARIES  
AND ACCESS.

**GEOPEKO LIMITED**  
TENNANT CREEK

DRAWN  
M.D.L.

SCALE  
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29.8.79

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