

GEOPEKO LIMITED

TENNANT CREEK

A DIVISION OF PEKO-WALLSEND OPERATIONS LIMITED

ANNUAL REPORT ON

EXPLORATION LICENCE 1286

COMPILED BY: JOHN V MAIN

SEPTEMBER, 1979

CR 79/190

1. INTRODUCTION

Exploration Licence No. 1286 held by Geopeko Limited was granted on 8th August, 1978. It was applied for on the 14th May, 1976. It covers 486 square kilometres in the Green Swamp Well locality. The coordinates of the north western corner of the Licence are $19^{\circ} 50'S.$, $133^{\circ} 10'E.$

Access to the Licence area from Tennant Creek is via the bitumen road to Warrego Mine; from Warrego Mine to Rover Camp via a moderate quality gravel road and from Rover Camp to the Licence area via a dirt track.

The location, boundaries and access are shown on Figure 1.

2. EXPLORATION PHILOSOPHY

No rock crops out within the E.L. boundaries. The low level airborne magnetometric survey conducted in 1973-1974 shows a number of discreet magnetic anomalies occurring within the E.L. boundaries, which may be indicative of Tennant Creek type ore bodies. (Figure 2)

From drilling some of these anomalies mineralisation of the Tennant Creek style hosted in Warramunga Group rocks was located beneath the overlying Hatches Creek Group cover rocks.

However drilling results also indicated that not all of the mineralisation was associated with magnetic rocks. Alternative exploration techniques would have to be used to locate such mineralisation. Gravimetric methods have been selected. Magnetometric surveys are also planned over three anomalies detected in the airborne survey.

3. GRIDDING

A regional grid was established across the south eastern part of the Exploration Licence area. Grid-lines are 6000 metres long and spaced 2500 metres apart.

Smaller grids were established over the three magnetic anomalies detected in the airborne survey, which have not yet been investigated. (See Figure 2)

All pegs were levelled and can be related to the Australian Map Grid.

A total of 88.5 kilometres of grid-lines was installed to give 2310 stations for readings.

It should be noted that 7.2 kilometres of these grid-lines and 288 of these stations are located within the boundaries of Mineral Leases 739E, 740E, 741E and 742E.

4. GEOPHYSICAL SURVEYS

The geometric survey and the magnetic survey will commence in mid August.

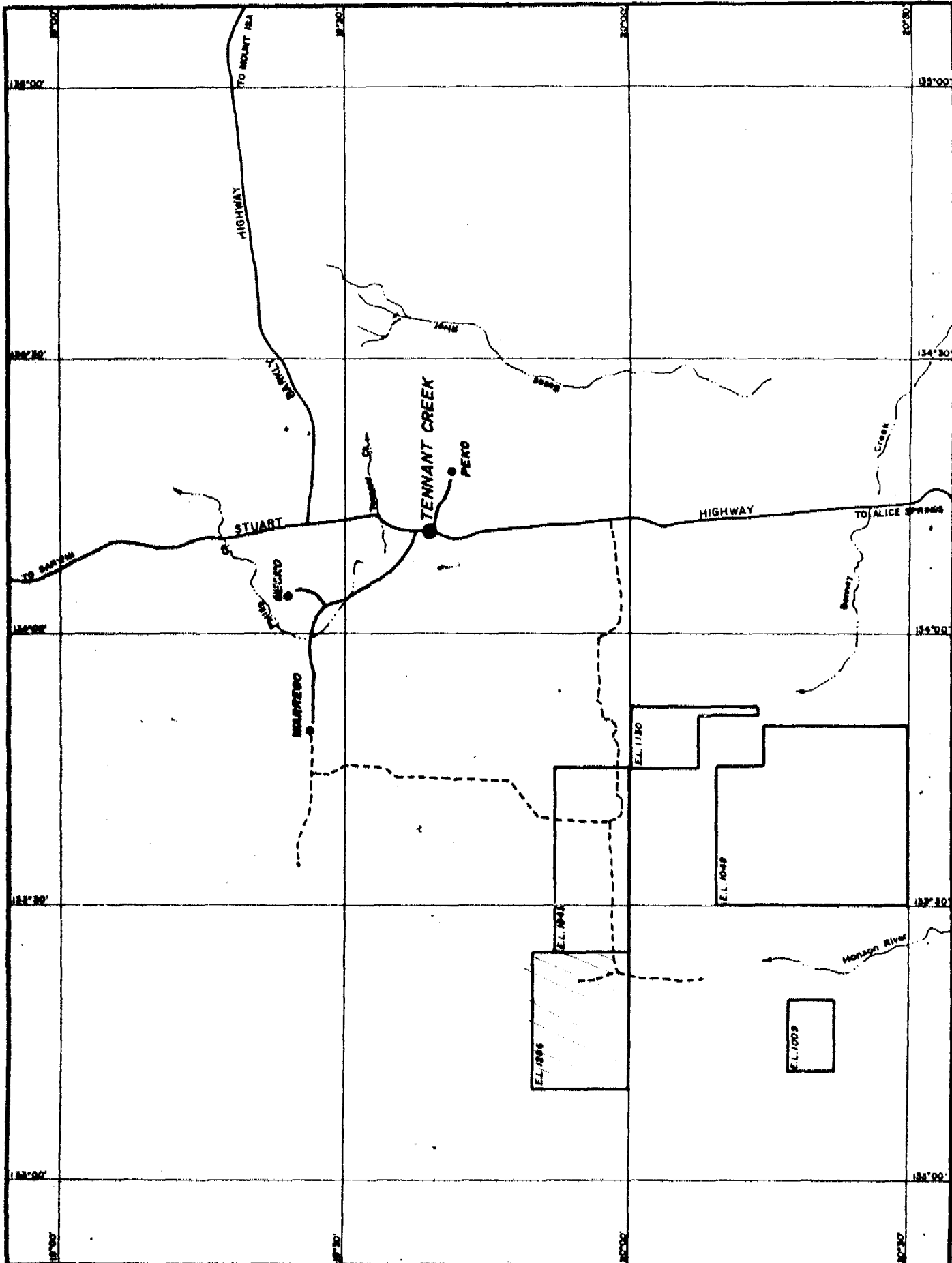
5. Total expenditure on the Exploration Licence 1286 for the 12 months ending 7th August, 1979 was \$13,571.

Breakdown of the expenditure was as follows:

Contract Gridding	\$11,232.00
E.L. Renewal Fees	376.00
Geology/Draughting	643.00
Geophysics	662.00
General Field Expenses	171.00
Administration	487.00
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TOTAL	\$13,571.00
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J.V. MAIN
Supervising Geologist

JVM:WIW



E.L. 1286
 LICENCE BOUNDARIES
 AND ACCESS

GEOPEKO LIMITED
 TENNANT CREEK

DRAWN
 M.D.L.

SCALE
 1 : 1,000,000

DATE
 29.8.79

Dwg. No.

GEOPEKO LIMITED, TENNANT CREEK

EXPLORATION LICENCE 1286

·SHOWING RESIDUAL MAGNETIC ANOMALIES AND GRID LINES·

DRAWN BY : J. MAIN

CONTOUR INTERVALS : 10 GAMMAS

SCALE : 1:50,000

FLIGHT LINES : 400m apart

DATE : SEPT. 1979

FLIGHT ALTITUDE : 150m A.M.T.

