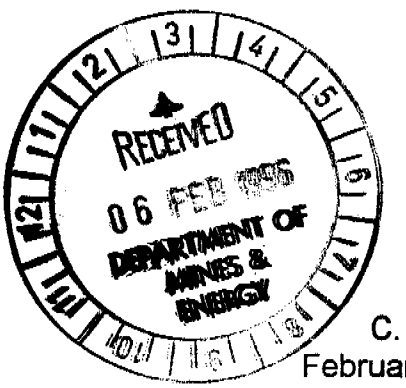
Territory Goldfields

EL 8589 - FERGUSSON RIVER ANNUAL REPORT YEAR ONE OF TENURE

EL 8589

31/1/95 - 30/1/96
Ranford Hill 1:100,000 Map Sheet



C. Fawcett
February 1996

Distribution:

CR96/129.

NTDME
Territory Goldfields NL, Darwin
Barnjarn Mining Company

OPEN FILE

Territory Goldfields N.L.
A.C.N. 063 635 325
Cosmo Howley Mine, Via Hayes Creek, Northern Territory
Postal Address: PO Box 36046 Winellie, Northern Territory 0820
Telephone: (089) 782 499 Fax: (089) 782 467

TABLE OF CONTENTS

LIST OF FIGURES

1.0 SUMMARY

EL8589 is located approximately 250km southeast of Darwin on the Ranford 1:100,000 scale map sheet and lies within the Wandie Project area.

The licence was granted to Dominion Gold Operations Pty Ltd in January 1995 and was subsequently acquired by Territory Goldfields NL in May 1995.

No exploration has been undertaken during the first year of tenure due to the acquisition of the licence by Territory Goldfields and commitments in other areas.

2.0 LOCATION AND TENURE

EL8589 is located approximately 50km east-southeast of Pine Creek and 250km southeast of Darwin. Access is via the Stuart Highway or Kakadu Highway and then via maintained pastoral tracks (figures 1 and 2).

The licence covers two graticular blocks described by latitudes 13°58'E and 13°59'E and longitudes 132°15'S and 132°17'S. It is situated on the Ranford Hill 1:100,000 and Ranford 1:50,000 scale map sheets.

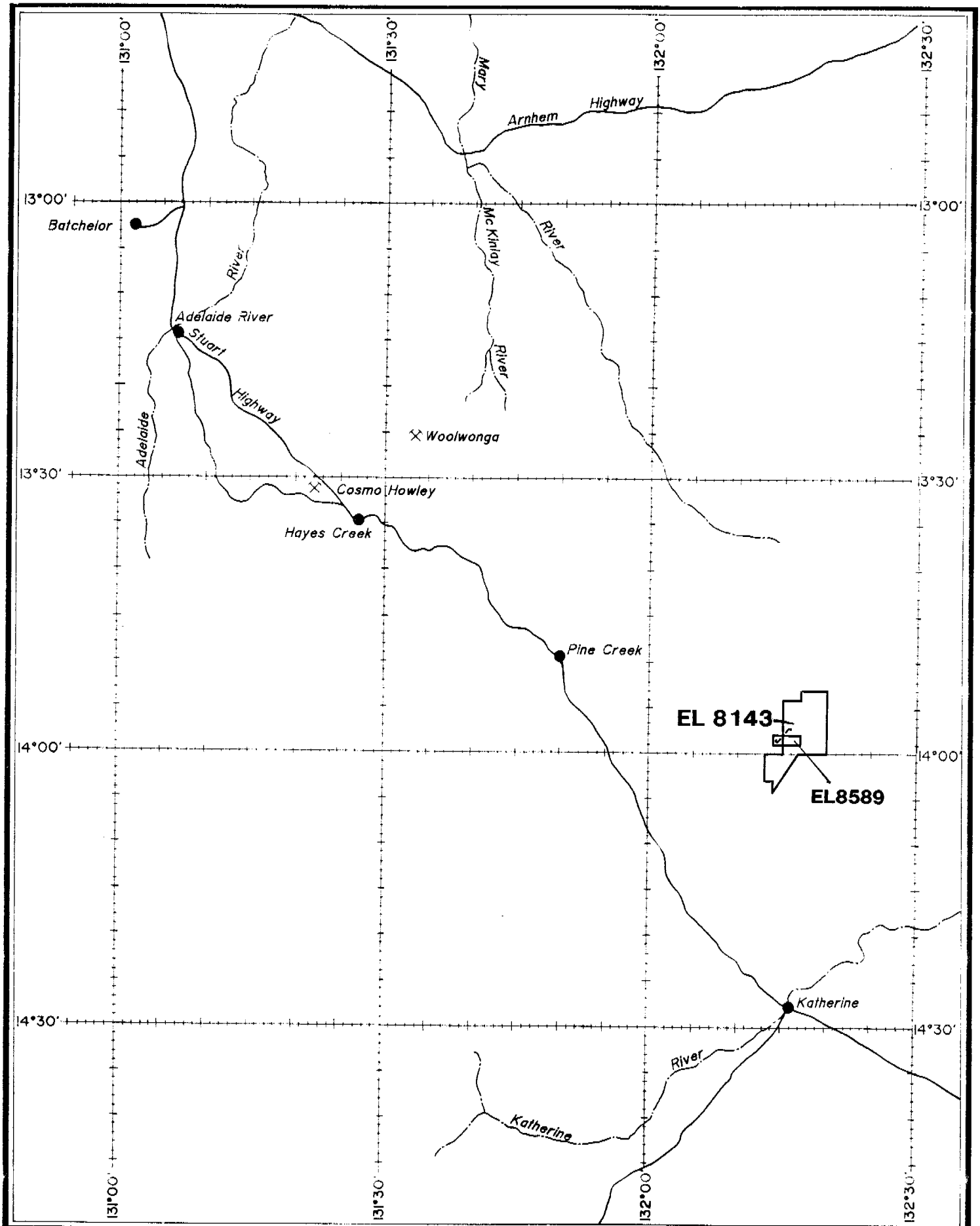
The licence was granted to Dominion Gold Operations Pty Ltd on 31 January 1995 and was subsequently acquired by Territory Goldfields NL in May 1995.

3.0 GEOLOGY

3.1 Regional Geology

The Pine Creek Inlier is a roughly triangular area of about 66,000km^2 south and east of Darwin, which contain Early Proterozoic metasedimentary rocks resting on a gneissic and granitic archaean basement. The metasediments represent fluviatile, shallow water and intertidal basinal sequence up to 14km thick (Needham et al, 1980).

During the Top End Orogeny (1870-1780Ma) the rocks were metamorphosed to mainly greenschist facies, however, amphibolite facies dominates in the northeast in the Alligator Rivers region. Proven Archaean rocks are restricted to mainly granite-gneiss of the Rum Jungle, Waterhouse and Nanambu Complexes which formed mantled gneiss domes near the presently exposed western and eastern margins of the inlier.
The sedimentary rocks are mainly shale, siltstone, sandstone, conglomerate, carbonate rocks and iron formations. Felsic to mafic volcanism and associated tuffaceous sediments are also present. The sedimentary sequence is intruded by transitional igneous rocks including pre-tectonic dolerite sills and syn to post

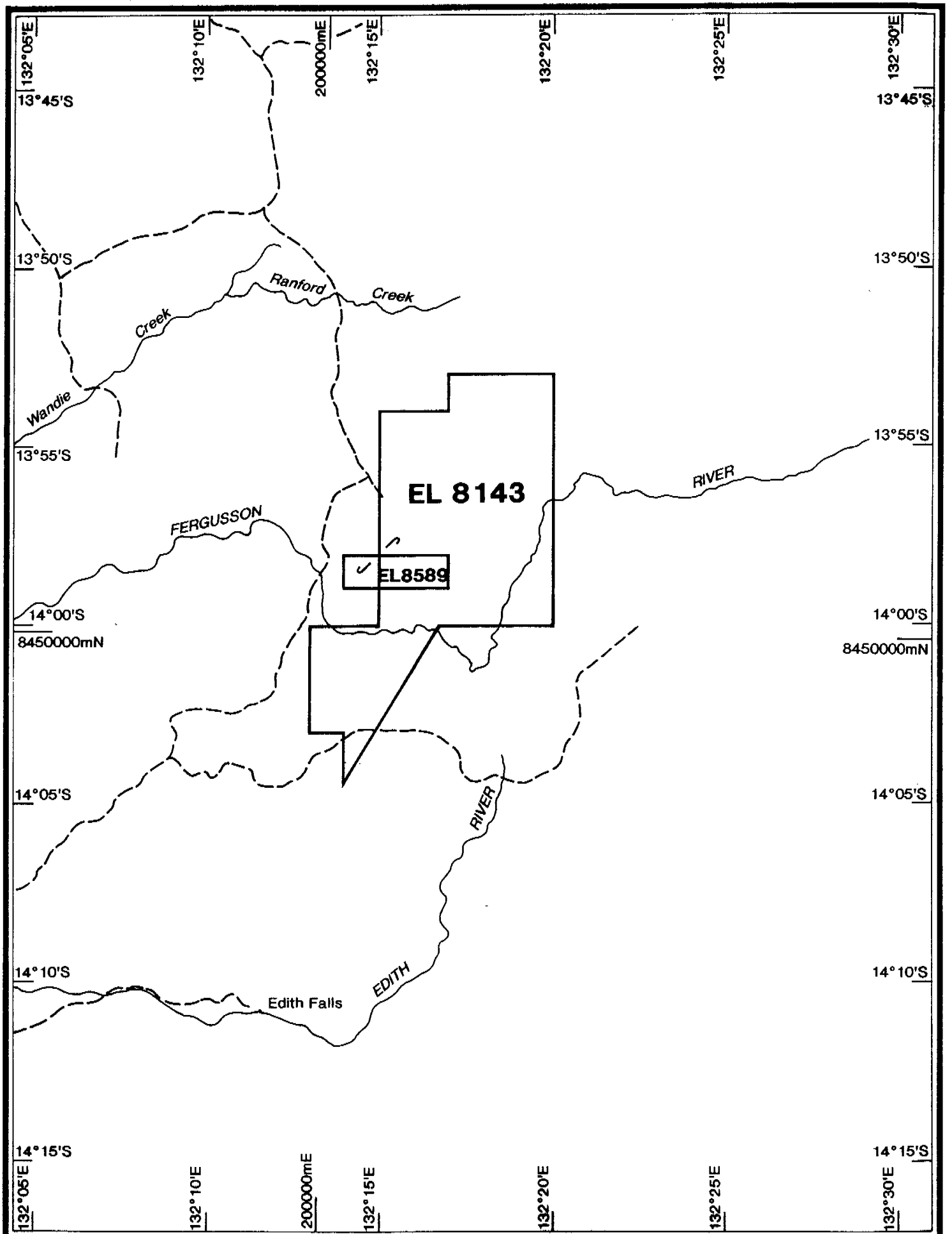


0 10 20 30 60 km

EL8589
Tenement Location

PROJECT	WANDIE			STATE	N.T.
ORIGINATOR	J.B.	Date Sept 94	DRAWN L.C.	Date	Sept 94
SCALE	1:1000000	FIGURE No: 1		PLAN No:	162C-Tb1

Dominion Mining Limited



EL8589
Tenement Location

PROJECT	WANDIE			STATE	N.T.
ORIGINATOR	J.B.	Date	Sept 94	DRAWN L.C.	Date Sept 94
SCALE	1:250000	FIGURE No.	2	PLAN No:	162C-Ta4

Dominion Mining Limited

tectonic granitoid plutons and dolerite lopoliths and dykes. Largely undeformed platform covers of Middle Proterozoic to Mesozoic strata overlie these Lower Proterozoic sediments.

3.2 Local Geology

The area is dominated by Burrell Creek Formation sediments and the Wolfram Hill Granite

The Burrell Creek Formation is dominated by greywacke and siltstone/shale. Most of the rocks within the unit are well cleaved and tightly folded about north to northwest subhorizontal fold axes.

Folding is complex and appears to trend northeast through the licence area (Figure 3).

4.0 1995-1996 EXPLORATION

No exploration was carried out during the first year of tenure due to the acquisition of the licence and commitments in other areas.

5.0 PROPOSED PROGRAMME

The proposed programme for year two will involve literature research, gridding and soil sampling of the entire licence area. Numerous tin and tungsten workings are present within and around the tenement and there is a possibility of further mineralisation being present within the tenement.

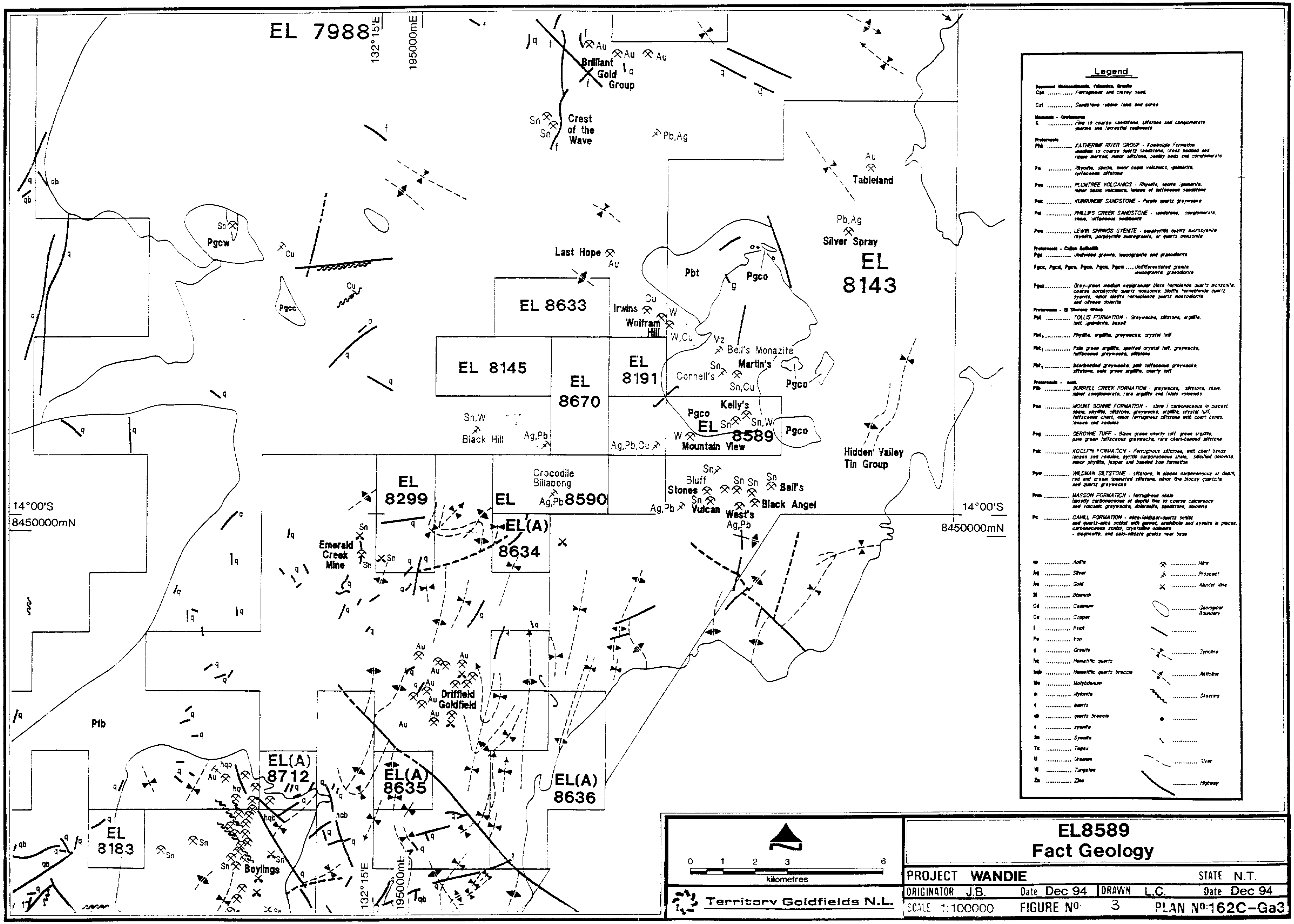
The minimum expenditure for this programme is expected to be $2,500.

6.0 EXPENDITURE

No expenses were incurred over EL8589 during the first year of tenure.

7.0 REFERENCES

Needham, R.S. , Crick, J.H. and Stuart-Smith, P.G. (1980)
'Regional Geology of the Pine Creek Geosyncline', in Proceedings of the International Uranium Symposium, International Atomic Energy Agency, Vienna p1-22.


EL 7988
132°15'E
195000mE
Brilliant Gold Group
Crest of the Wave
Pb,Ag
Au
Tableland
Pb,Ag
Silver Spray
EL 8143
Last Hope
Pgcw
Pgcc
Cu
Irwins
Wolfram Hill
W,Cu
EL 8633
EL 8145
EL 8670
EL 8191
Pbt
Pgco
Mz
Bell's Monazite
Martin's
Connell's
Sn,Cu
Kelly's
EL 8589
Mountain View
Sn,W
Black Hill
Ag,Pb
Ag,Pb,Cu
Hidden Valley Tin Group
EL 8299
Crocodile Billabong
EL 8590
Bluff
Stones
Vulcan
West's
Bell's
Black Angel
14°00'S
8450000mN
EL(A) 8634
Emerald Creek Mine
Driffield Goldfield
Pfb
EL(A) 8712
EL(A) 8635
EL(A) 8636
EL 8183
Boylings
Legend
0 1 2 3 6
kilometres
Territory Goldfields N.L.
EL8589
Fact Geology
PROJECT WANDIE
STATE N.T.
ORIGINATOR J.B.
Date Dec 94
DRAWN L.C.
Date Dec 94
SCALE 1:100000
FIGURE No 3
PLAN No 162C-Ga3