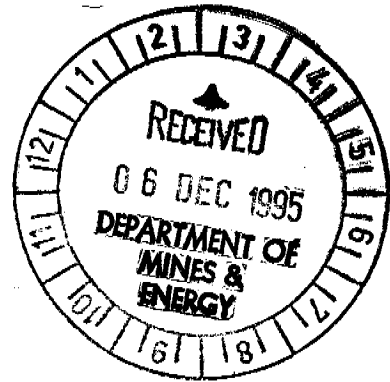


**Territory
Goldfields**



EL8633 - WOLFRAM

**ANNUAL REPORT
YEAR ONE OF TENURE**

**25.11.94 - 24.11.95
Wandie 1:50,000 and
Ranford Hill 1:100,000 Scale Map Sheets**

OPEN FILE

CRAS/866
Distribution:

NTDME
Territory Goldfields NL, Darwin
Barnjarn Mining Company

C. Fawcett
November 1995

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

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1.0 SUMMARY

EL8633 is located within the Wandie project area on the Wandie 1:50,000 and Ranford Hill 1:100,000 scale map sheets.

Exploration conducted over EL8633 has been carried out as part of a regional programme over the Wandie project area.

Lag sampling was carried out by Dominion Gold Operations Pty Ltd during the first year of tenure. The licence was granted to Dominion in November 1994. Territory Goldfields NL acquired the licence in May 1995.

2.0 LOCATION AND TENURE

EL8633 is located approximately 45km east-southeast of Pine Creek on the Wandie 1:50,000 and Ranford Hill 1:100,000 scale map sheets. The licence forms part of the Wandie project area and is described by latitudes 13°56'S and 13°57'S and longitudes 132°12'E and 132°14'E (Figures 1 and 2).

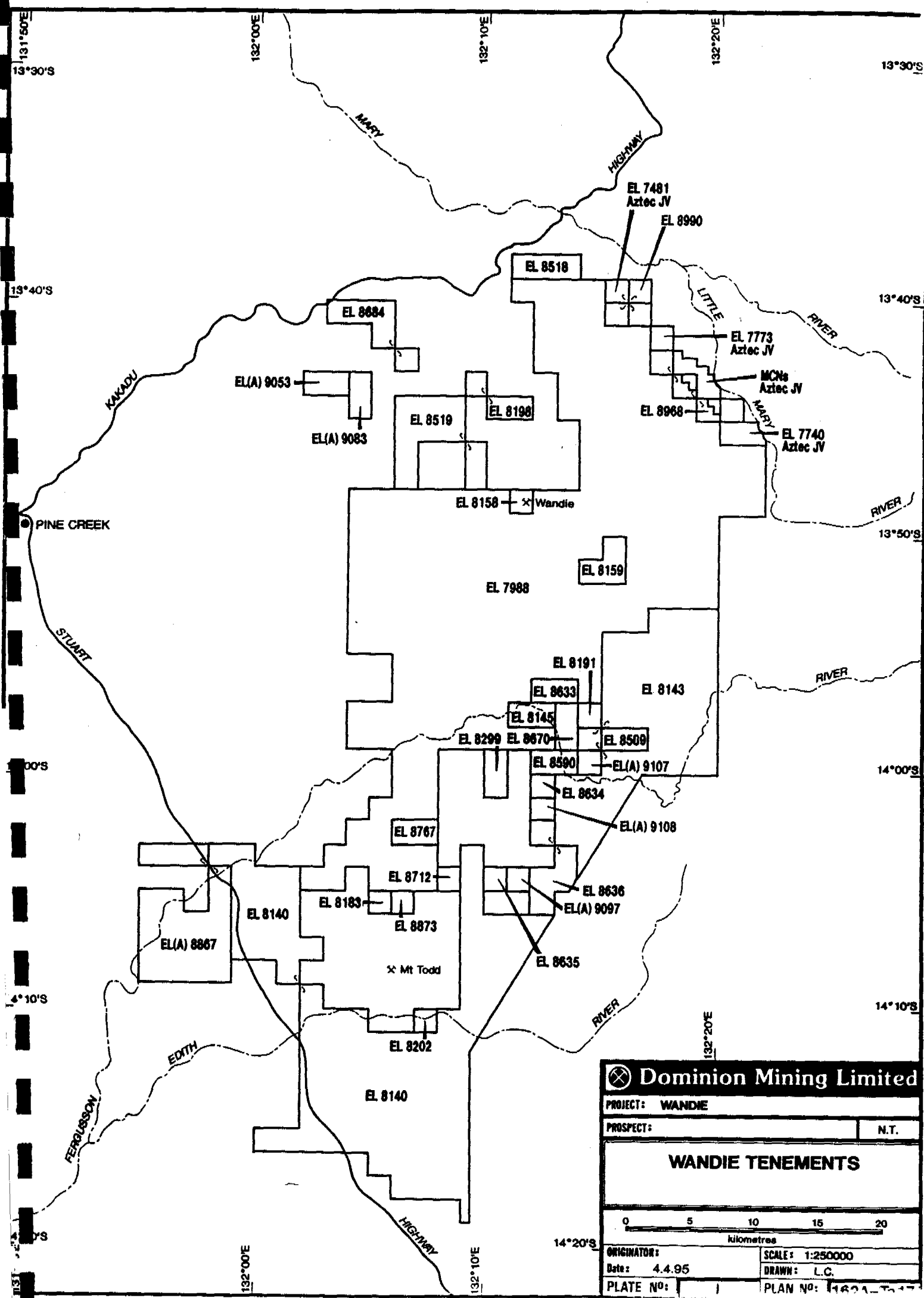
The licence was granted to Dominion Gold Operations Pty Ltd on 25 November 1994 for a period of three years. Territory Goldfields NL subsequently acquired the licence in May 1995.

3.0 GEOLOGY

3.1 *Regional Geology*

The Pine Creek Inlier is a roughly triangular area of about 66,000km² 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.



Dominion Mining Limited

PROJECT: **WANDIE**

PROSPECT: **N.T.**

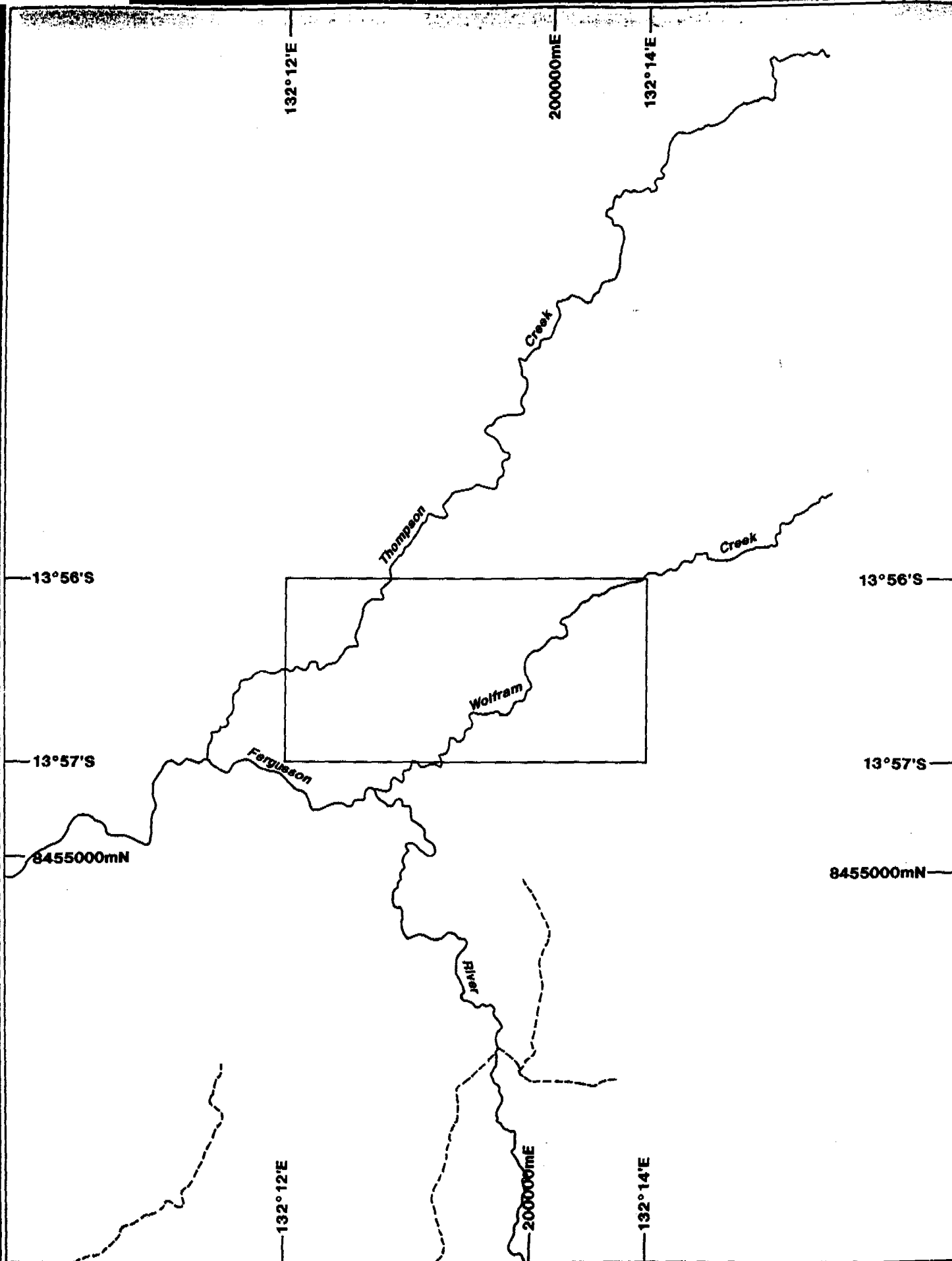
WANDIE TENEMENTS

0 5 10 15 20
kilometres

ORIGINATOR: **SCALE: 1:250000**

Date: **4.4.95** DRAWN: **L.C.**

PLATE NO: **PLAN NO: 1621-T-17**



**EL 8633
TENEMENT LOCATION**

PROJECT WANDIE

STATE NT

ORIGINATOR CF

Date

DRAWN CF

Date DEC 95

SCALE 1:50,000

FIGURE No. 2

PLAN No:



Territory Goldfields N.L.

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 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 licence area is dominated by Burrell Creek Formation sediments and alluvial sediments from the Fergusson River drainage system.

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

4.0 PREVIOUS EXPLORATION

The area has previously been explored by Geopeko Ltd as part of EL1558 (1979). The work consisted of an airborne geophysical survey, photogeological reconnaissance mapping and geological mapping. Gridding and auger drilling was carried out to the north over the Wandie goldfields.

Billiton carried out exploration work immediately to the south of EL8633 (1991). This involved soil sampling and ground magnetics and electromagnetics. Results were disappointing.

A grid-based geophysical survey was undertaken over the Wolfram Hill Mine and surrounds in 1938 by the Northern Territory Geophysical Survey team. The aim of the survey was to trace probable continuation of the main reef, in which mineralisation occurred, through the sandy bed of Wolfram Creek and on its northern bank, and if possible, to indicate the presence of quartz-wolfram lenses. Three different geophysical techniques were used:

- (1) Potential Ratio;
- (2) Magnetic; and
- (3) Self-Potential method.

Driffield Mining Pty Ltd undertook a selective rock chip sampling and reconnaissance programme over old mine workings and prospective areas in 1988. They concluded that the preliminary evaluation and rock chip survey confirmed the region's potential for gold mineralisation, and a detailed comprehensive rock chip sampling programme of the region was justified.

5.0 1994 - 1995 EXPLORATION

During the first year of tenure, Dominion carried out a lag sampling programme resulting in the collection of 15 samples. Lag sampling involves the collection of approximately 2kg of +2mm -6mm material taken from the ground surface. This is achieved by using a wide, heavy duty broom to sweep up surface material, which is then sieved to the required size fraction.

Samples were submitted to Amdel, Darwin for analysis of Au, As and Bi. Results can be seen in Appendix 1 (Figures 4 and 5).

6.0 PROPOSED PROGRAMME

The proposed exploration programme for the second year of tenure will involve infill lag sampling or RAB bedrock drilling if needed. This will provide 800m x 200m coverage. Further infilling to 400m x 100m may be carried out in anomalous areas outlined.

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

7.0 EXPENDITURE

The expenditure for the first year of tenure is as follows:

Assays	180.00
Employee Costs	810.00
Vehicle Costs	400.00
Camp and Field	1000.00
Drafting and Computing	140.00
Total	<u>\$2530.00</u> =====

8.0 REFERENCES

Balde, R., Annual Report for Exploration Licence No. 1558, for the period 29.12.77 - 28.12.78, unpublished report by Geopeko Ltd.

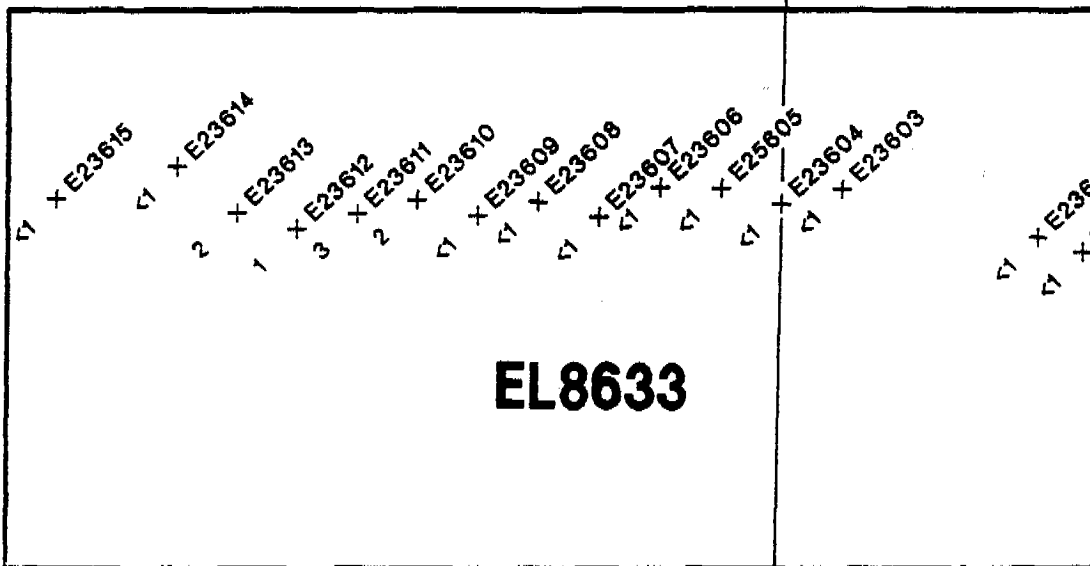
Koerber, D., Billiton Australia, EL4730 - Wolfram Hill Joint Venture, Annual Report for period ending 15 March 1992, unpublished report to the NTDME

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.

132°12'E

132°14'E

13°58'S



13°57'S

8455000mN

200000mE



0

1.5 km



Territory Goldfields N.L.

EL8633

LAG SAMPLING - Au(ppb)

PROJECT WANDIE

STATE NT

ORIGINATOR CF

Date

DRAWN CF

Date NOV 95

SCALE 1:25,000

FIGURE NO. 4

PLAN NO:

132°12'E

132°14'E

13°56'S

13°57'S

8455000mN

200000mE

85 X E23616
75 X E23614
65 X E23613
45 X E23612
65 X E23611
30 X E23610
30 X E23609
20 X E23608
20 X E23607
20 X E23606
20 X E23605
45 X E23604
35 X E23603
35 X E23602
10 X E23601

EL8633



0 1.5 km



Territory Goldfields N.L.

EL8633

LAG SAMPLING - As(ppm)

PROJECT WANDIE

STATE NT

ORIGINATOR CF

Date

DRAWN CF

Date NOV 95

SCALE 1:25,000

FIGURE NO. 5

PLAN NO:

APPENDIX 1

LAG SAMPLE LOGS AND ASSAY RESULTS

GEOCHEMICAL SAMPLING

EL 7988

Project: WOLFRAM HILL

Prospect: FERGUSON R.

Page 1 of 2

Sample Type: +2 -6mm

Sampler: Andy & Wayne
AN/WM

Date: 14-09-94

Laboratory: _____

Analytical Methods: _____

Co-ordinate / Location	Slope Vector	Primary Descriptor	Secondary Descriptor			Sample No. Prefix	Analysis		
			Alt	Mvn			ppb		
							Au	Ag	Bi
8457100N 201000E		Sgw B5 outcrop	1			E23601	x	10	<1
8457150N 200850E		Sgw BR5 outcrop				602	x	35	"
8457200N 200600E		NS Alluvial terrace				-			
8457200N 400E		NS "	"			-			
8457300N 200E		Sgw 60 Smd 38		9202		603	x	35	<1
8457250N 200800E		Sgw R6		9202		604	x	45	"
8457300N 199800E		Sgw R5 92 outcrop		9230		605	x	20	"
8457300N 600E		Sgw R6		9202		606	x	20	"
8457200N 400E		Sgw 80 Smd 20				607	x	20	"
250N 200E		Sgw 60 Smd 40				608	x	20	"
199000E 250N		Sgw 80 Smd 15		9205		609	x	30	"
198800E		Sgw R4				610	2	30	4
600E 150N		Sgw R6		9205		611	3	65	1
400E		Sgw B5 outcrop				612	1	45	<1
8457200N 200E		Sgw 50		9250		613	2	65	"
8457350N 198000E		Sgw 50 92 outcrop		9250		614	x	75	1
8457200N 197800E		NS Thompson Brook floodplain, no visible outcrop or lag							
8457240N 197600E		Sgw 60		9240		615	x	85	2

8633

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	As	Bi
--------	----	--------	----	----

E23601	<1	--	10	<1
E23602	<1	--	35	<1
E23603	<1	--	35	<1
E23604	<1	--	45	<1
E23605	<1	--	20	<1
E23606	<1	--	20	<1
E23607	<1	--	20	<1
E23608	<1	--	20	<1
E23609	<1	--	30	<1
E23610	2	--	30	<1
E23611	3	2	65	1
E23612	1	--	<5	<1
E23613	2	--	65	<1
E23614	<1	<1	75	1
E23615	<1	--	85	2

UNITS	ppb	ppb	ppm	ppm
DET.LIM	1	1	5	1
SCHEME	FA3	FA3	AA7	AA7