

YARDARINO MINING NL

FINAL REPORT

EL9186 - FLYNNS SW

TENNANT CREEK DISTRICT

NORTHERN TERRITORY

COPIES:

1. Department of Mines and Energy - Darwin.
2. Yardarino Mining NL - Perth

AUTHOR:

R.P. MURPHY

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LIST OF PLANS

PLAN NO.	TITLE	SCALE
1	Tenement Location Plan	1 : 250 000
2	Tenement Boundaries	1 : 40 000

1. SUMMARY

Exploration Licence 9186 (Flynn's SW) of two blocks was granted on 4 September, 1995 and relinquished on 1 July, 1996. The tenement was subject to a joint venture between Orion Resources and Yardarino. No field work was conducted on the tenement by Orion Resources as managers of the joint venture before their withdrawal on 15 December, 1995.

Subsequent to Orion Resource's withdrawal, Yardarino undertook a review of previous exploration data. This review indicated that a ground magnetic survey by WMC covering the tenement had located only a single "bull's-eye" anomaly within a strong regional gradient. The anomaly was associated with outcropping ironstone but had been diamond drilled by Peko in the 1970's (Explorer 85 anomaly) without success. Yardarino concluded that as the only magnetic anomaly within the tenement had already been tested no further work was justified.

2. INTRODUCTION

2.1 Location and Access

Exploration Licence 9186 is located approximately 20km north of Tennant Creek and 4km south-west of the Barkly Highway/Stuart Highway junction (Plan No 1).

2.2 Physiography

The area of EL9186 is reasonably flat with thin sand cover and residual soils. Vegetation consists of spinifex grass, acacia and eucalypt trees.

2.3 Tenure

Exploration Licence 9186 was granted to Yardarino Mining N.L. for a period of 3 years on 4 September, 1995. The EL covers two blocks numbered 68-20 and 68-21 on the Flynn Sheet 52/2.

The tenement was subject to a joint venture agreement with Orion Resources N.L. who managed the exploration from tenement grant until their withdrawal from the joint venture on 15 December, 1995.

Subsequent to Orion Resources N.L. withdrawal the tenement was surrendered on 1 July, 1996.

3. REGIONAL GEOLOGY

The Tennant Creek district over the past 60 years has produced several small, very high grade gold orebodies. Two of these bodies, Warrego and Nobles Nob, have produced over 1M ounces. The field has produced copper ore mainly from Warrego and Peko and was, until very recently, the world's major source of bismuth. To date nearly all the gold, copper and bismuth produced has been mined from quartz-jasper-magnetite-haematite bodies locally called ironstones. Exploration has focused on ground prospecting and drilling outcropping ironstones or selecting magnetic bulls eyes from the aeromagnetic surveys for drill testing.

The Tennant Creek district is deeply weathered (+70m) and regionally there is less than 30% outcrop. There are extensive plains of alluvium and colluvium between the outcrops which makes surface stratigraphic mapping almost impossible. There are however, three recognisable groups in the district.

The oldest and most prospective is the Warramunga Group, which hosts all of the significant and potentially mineralised ironstones. The Group consists of medium to deep water siltstones

and greywackes which have been highly sheared and folded. There is a pervasive S1 cleavage which commonly is over printed by S2.

Overlying the Warramunga Group is the Flynn Sub-group. This is characterised by interbedded siltstones and fine sandstones, although highly sheared original bedding can be recognised as can some sedimentary textures.

The Tomkinson Creek Group overlies the Flynn and is located in the northern extremity of the field. This Group is dominated by silicified sandstones and dolerite sills in the Tennant Creek area.

There are very poorly outcropping but extensive granites in the district. These are of two ages with the oldest represented by the sheared Tennant Creek granite and the younger by the unsheared Warrego granite. Quartz-feldspar and feldspar porphyries are reasonably common. They occur as either concordant or discordant to bedding. Often they are cross-cutting to the pitch and plunge of mineralisation.

4. PREVIOUS EXPLORATION

In 1990 a Placer Exploration/Metana Minerals JV purchased and reprocessed the 1984 Austirex airborne magnetic data. Exploration elsewhere outside the tenement block indicated little potential and the ground was relinquished without any field work undertaken.

Between 1992 and 1994 the area was held by WMC. Gridding, ground magnetics and rockchip sampling were undertaken. The ground magnetic survey located a strong "bulls-eye" magnetic anomaly (Memorial West) marked by an ironstone outcrop. The rest of the tenement block was characterised by a strong regional gradient. Rockchip sampling of the ironstone outcrop yielded a single anomalous gold value at 49ppb Au. WMC conducted no further work as the Memorial West magnetic anomaly was identified as being identical to Geopeko's Explorer 85 anomaly. In the 1970's Geopeko had drilled two diamond holes into the anomaly intersecting "mineralised sediment" and "magnetite/hematite" but no "significant" assays had been recorded.

5. EXPLORATION PROGRAMME

No work was undertaken on E9186 by Orion Resources during their period of project management. Following Orion Resource's withdrawal from the joint venture a review of available open file exploration data was undertaken by Yardarino Mining.

The data review revealed that the tenement had been subjected to a ground magnetic survey by WMC resulting in the delineation of a single "bulls-eye" anomaly within a steep regional gradient. The anomaly had previously been drilled by Geopeko.

In the absence of any additional untested targets, no field work was undertaken by Yardarino and the tenement was relinquished on 1 July, 1996.

6. EXPLORATION EXPENDITURE

The following expenditure was incurred on the EL.

	\$
Wages	188.18
Administration	113.33
Geological Consultant	37.55
Data Acquisition	25.00
Drafting	8.87
Property Costs	342.50
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Sub Total	715.43
Overhead	107.31
TOTAL	\$822.74

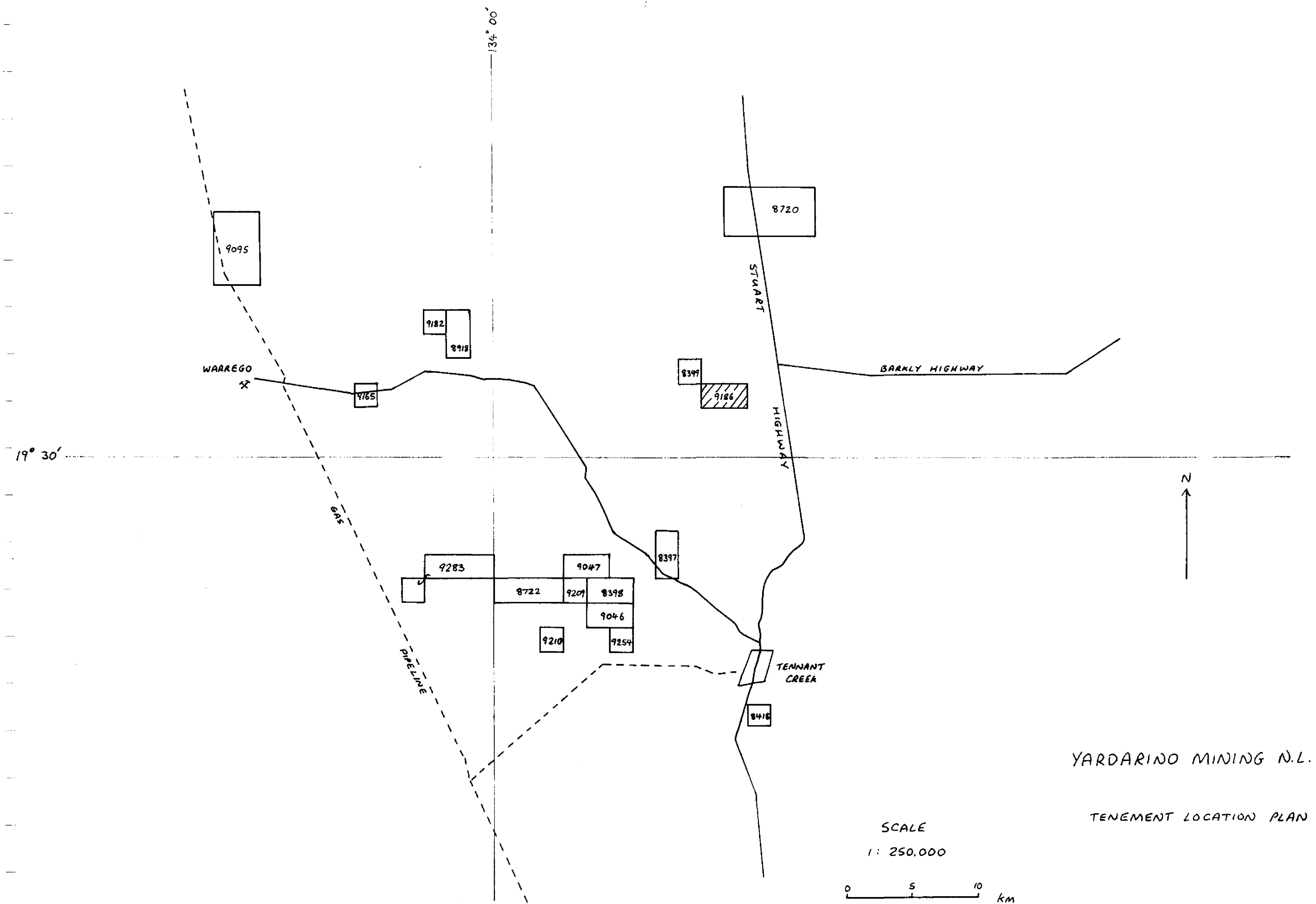
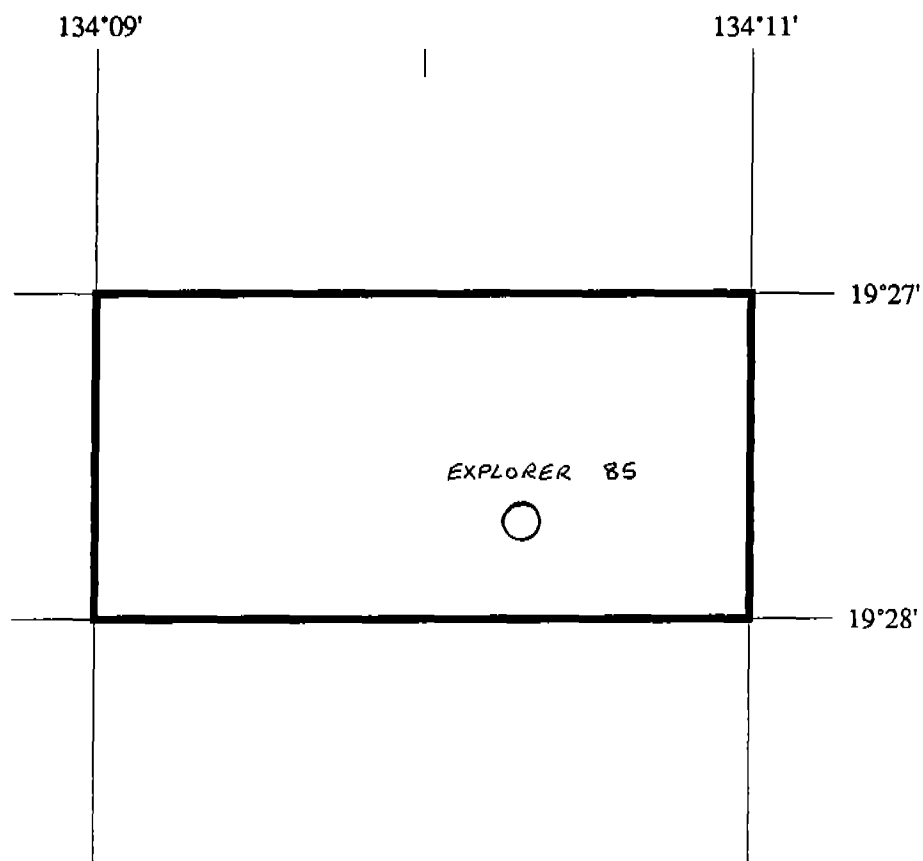


Fig 1.

SECOND SCHEDULE
(Plan of Area)



EL9186
2 BLOCKS
6 sq kms

SCALE
1 : 40,000

