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## SUMMARY

Exploration Licence 9/66, Western Tasmania was first granted in August, 1966. During the following years, several other Licences were acquired in the Queenstown area and amalgamated into EL9/66 which covered a maximum area of 639 km<sup>2</sup>, predominantly over the Cambrian Mt. Read Volcanics. For almost 21 years, the Mt. Lyell Mining & Railway Company Limited and, since 1982, Gold Fields Exploration Pty. Ltd. (both divisions of Renison Goldfields Consolidated Ltd.) have carried out sustained and systematic exploration here, initially for Mt. Lyell-style copper mineralization, then, principally for volcanogenic massive sulphide ore bodies and more recently for economic gold deposits. This work has involved extensive airborne geophysical surveys and detailed geological, geochemical and ground geophysical investigations leading to the completion of 107 diamond drill holes for a total of approximately 32,500 metres. This major exploration program has cost a total of \$12.2 million (adjusted to 1986 dollar values).

Several major prospects were discovered during this period of exploration in particular: massive sulphide bodies at Red Hills, Selina, Henty Fault and Basin Lake; promising lead-zinc mineralization at Mt. Selina, Henty River and Beatrice; silver mineralization at Howards Anomaly, encouraging copper-gold mineralization at Jukes Pty; and gold at the Henty Prospect. In addition, numerous other interesting prospects and mineral occurrences were located but, despite intensive exploration, none of these (excluding Henty) have been shown to be sufficiently economically attractive to warrant further investigation. Consequently all of EL9/66 excepting the Henty Prospect area, will be relinquished on 5th August, 1987.

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1.

## 1. INTRODUCTION

Exploration Licence 9/66, known as the Tyndall Area, Western Tasmania was first granted to Renison Limited in 1966. Subsequently other licences were acquired by the Mt. Lyell Mining and Railway Co. Ltd. in the general Queenstown area and, in 1978 these were amalgamated into an enlarged EL9/66 which covered a maximum area of 637 km<sup>2</sup> (see Section 2 for a detailed discussion of the land tenure history). The current Licence covers an area of 124 km<sup>2</sup> in four separate blocks (see Figure 1.1) and is due for relinquishment on the 5th August, 1987.

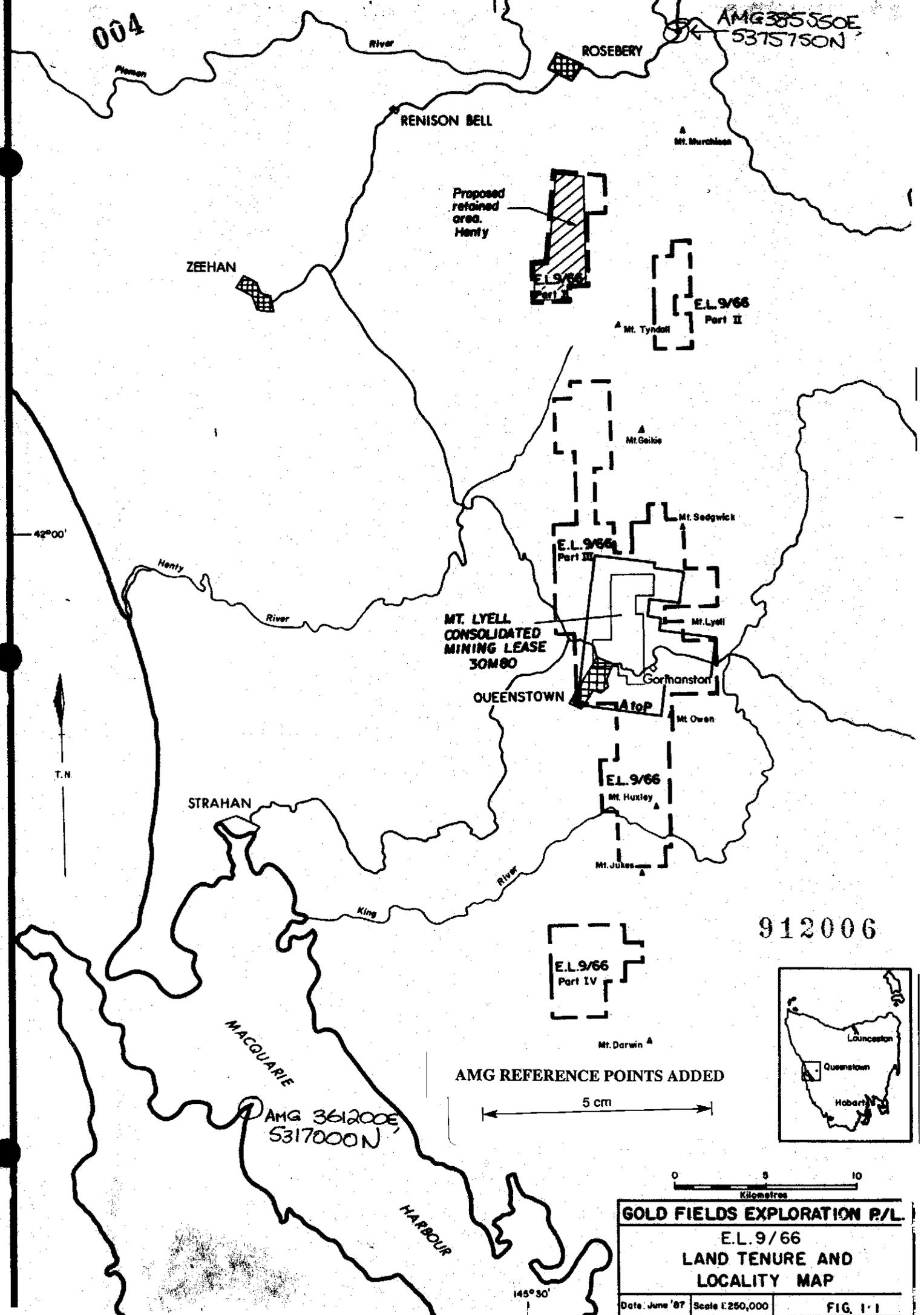
This report briefly summarizes all of the work that has been carried out over EL9/66, including the associated former Licences, by the Mt. Lyell Mining and Railway Co. Ltd. and, since 1982, by Gold Fields Exploration Pty. Ltd. Exploration commenced almost 21 years ago, although parts of the area, which were subsequently included in the EL, have been held by the Company for as little as 10 years. Many of the prospect areas explored during this period lie outside, or straddle, the boundaries of the current Licence area. However, all of those areas currently and previously held are included in this report for the sake of completeness and to avoid possible confusion. This report does not include:

- (1) Work over the current Authority to Prospect, Queenstown (see Figure 1.1) which is the area previously encompassed by the Mt. Lyell Consolidated Mine Lease, 15M/75 but not covered by the present Consolidated Mine Lease, 30M/80.
- (2) Work on the Henty Prospect since mid-1984.

Since the EL extended over such a large area at one time, and because exploration activity has been carried out over all of this area at different times, the relinquishment report is subdivided into sections on the separate prospects. Each prospect is identified, usually by the name of the cut grid system that was established to facilitate exploration over the particular area. These exploration areas are located on Figure 1.2 and are listed, roughly from north to south in Table 1.1. It should be noted that some of the gridded areas overlap as work on the Licences evolved and often exploration programs were conducted concurrently across adjoining prospects.

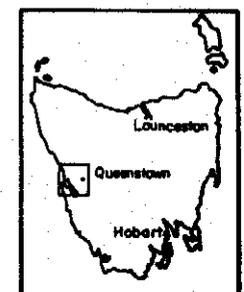
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AMG 385550E  
537570N

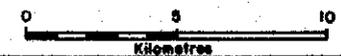
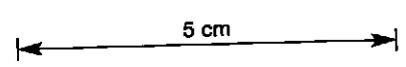


MT. LYELL  
CONSOLIDATED  
MINING LEASE  
30800

912006



AMG REFERENCE POINTS ADDED



<b>GOLD FIELDS EXPLORATION P/L</b>	
E.L. 9/66	
LAND TENURE AND LOCALITY MAP	
Date: June '87	Scale 1:250,000
FIG. 1.1	

ZEEHAN

RENISON BELL

ROSEBURY

STRAHAN

QUEENSTOWN

MACQUARIE

HARBOUR

145°30'

42°00'

T.N



Phenix

River

Henty

River

King

River

Mt. Jukes

A  
Mt. Murchison

A  
Mt. Tyndall

A  
Mt. Geikie

A  
Mt. Sedgwick

A  
Mt. Lyell

A top

A  
Mt. Owen

A  
Mt. Darwin

AMG 361200E  
531700N

Table 1.1 EL9/66 EXPLORATION PROSPECT AREAS  
(listed roughly from north to south, see Figure 1.2)

Henty Fault (& Mt. Read)*	Anthony
Red Hills (& Gooseneck)	Selina*
White Spur*	Rolleston*
West Tyndall	Dora
Newton Creek	Spicer
Howards Anomaly	Beatrice*
East Tyndall*	Little Owen*
Basin Lake*	Huxley (& Mt. Ellen & Tofft)*
Henty River	Jukes Pty (& Lake Jukes)*
Henty Yolande	Intercolonial Spur
Madame Howard Plains	Snake Spur*
West Sedgwick (& West Queen)*	East Darwin
Lynch Creek	Mt. Darwin
Flannigans*	Bird River
Clark Valley	

\*Those areas wholly or partially within the current EL9/66

Nevertheless, this subdivision closely follows the sectionalized reporting style adopted in the Annual Company Reports.

The report is set out chronologically and briefly lists the exploration activities completed over the specific prospects during each financial year for the particular Exploration Licences. In addition, significant results are summarized and presented in the appropriate section. Detailed discussions of: the exploration aims and methods; the work completed and results obtained; and the significance of these results can be found in the comprehensive Annual Reports which are referenced for each section and listed, in full, in the bibliography at the end of this report. Similarly, the numerous consultants' reports, not included in the Annual Company Reports are listed and, where relevant, are referred to in the text.

During the 20 years of exploration over EL9/66, there has been a huge quantity of data collected by many geoscientists working on behalf of the Company and as independent researchers, particularly as part of post graduate theses. In order to assimilate this wealth of information to assist with the assessment of the mineral potential of the area, there have been several major reviews. In particular those of Irvine (1974), Stevens-Hoare (1975), Wells (1975 & 1976), Reid (1977), Drake (1979) and Bishop (1980 & 1982) culminating in the very comprehensive and detailed geological review by Purvis, Jones, FitzGerald and Poltock (1983) should be mentioned. This last review covered all of the prospect areas, prior to the first major reduction of the EL, and involved approximately 18 man-months of work, 8 of which were spent on geological traverses in the field and included the examination of core from approximately 50 drill holes. This review outlined a recommended program to complete exploration over the EL in compliance with the Mines Department regulations, namely: reduction to 125 km<sup>2</sup> by August, 1984; relinquishment by August, 1987.

In 1979 a major compilation project was initiated by Getty Oil Development Co. Ltd. as part of their separate Joint Venture Agreements between the Mt. Lyell Mining and Railway Co. Ltd. and Electrolytic Zinc Co. of Australasia Ltd. Two and a half years later, after an estimated ten man years of work, the 1:50,000 scale compilation was completed. In total, 108 overlay sheets were produced to show: geological fact and interpretation; alteration styles; mineral occurrences and metallogenesis; Landsat linears; geophysical

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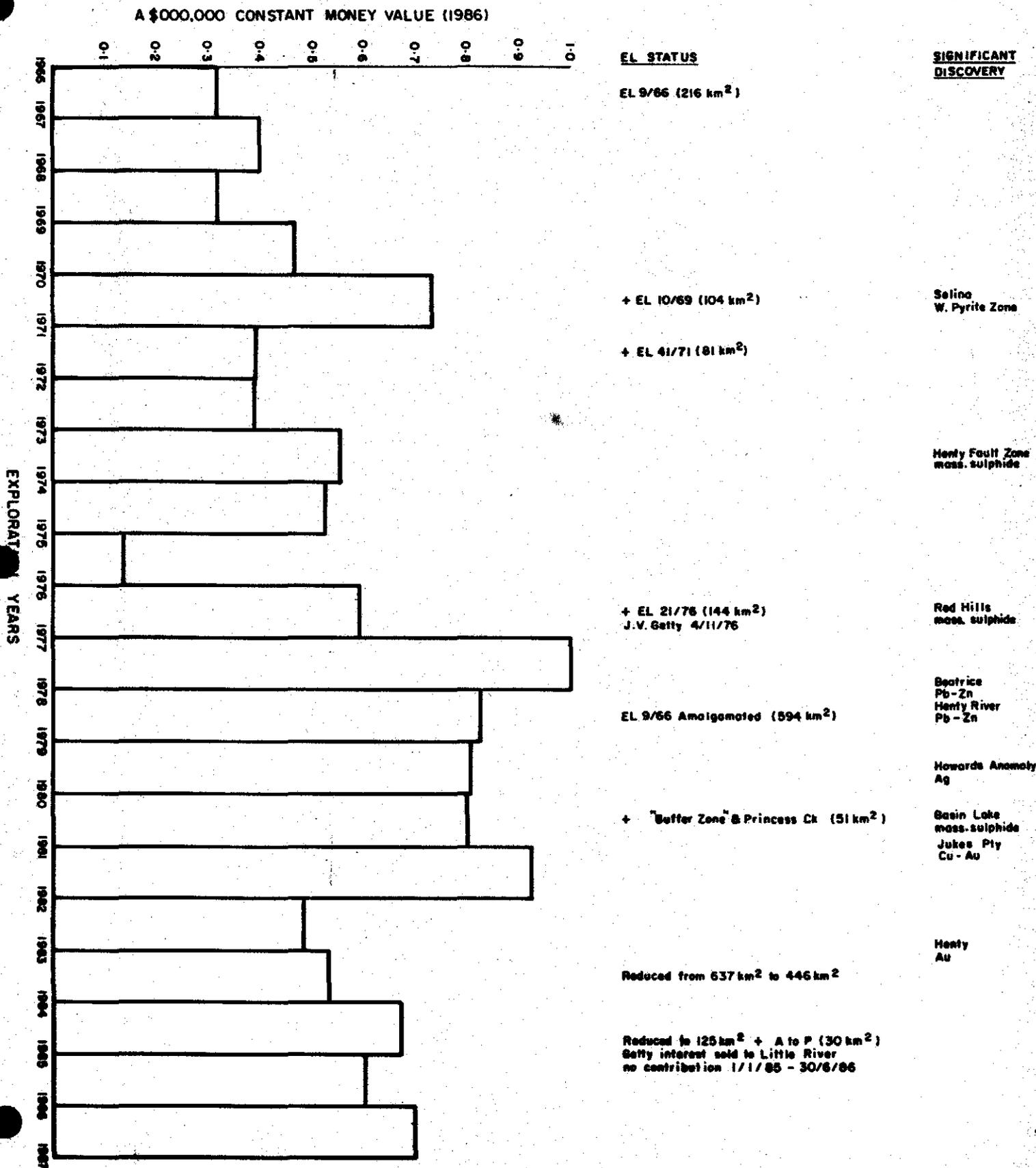
4.

coverage and anomalies (IP chargeability and resistivity, E.M., S.P., gravity, applied potential, aeromagnetism and airborne EM); soil geochemical distribution and anomalies (Cu, Pb, Zn and Mn) as well as base sheets showing the topography, cultural features, grid bases and sources of data. Only the grid/data base sheets have been updated since 1982 by Gold Fields, following the sale of Getty Oil.

EL9/66 covers part of the Cambrian Mt. Read Volcanic belt in Western Tasmania which is host to the major polymetallic massive sulphide deposits of Rosebery, Hercules, Que River and Hellyer as well as the large copper ore bodies in the Mt. Lyell Field. Systematic and sustained exploration has been carried out every year since the first part of the licence area was granted 21 years ago. Initially this work was directed towards the discovery of economic, Mt. Lyell-style copper mineralization, but the main thrust of the exploration has been for viable volcanogenic massive sulphide ore bodies and, more recently, for gold deposits. This exploration has involved extensive airborne geophysical surveys and comprehensive and intensive geological, geochemical and ground geophysical surveys leading to the completion of 107 diamond drill holes for a total of approximately 32,500 metres (all drill holes are located on Figure 1.2). The total cost of this major exploration program is \$12.2 million (adjusted to 1986 dollar values). A plot of the annual expenditure in constant (1986) money values is given in Figure 1.2 which clearly demonstrates the sustained level of activity over the entire life of the Licence.

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**Fig. 1.3 EL 9/66 ANNUAL EXPENDITURE**



**NOTES**

1. Inflation figures used are for Tasmania for 12 months ending December each year (Comm. Bur. Stats.)
2. C.P.I. figure for the last half of the calendar year used to calculate the constant money values for the whole financial year.

## 2. LAND TENURE

EL9/66 (Tyndall area) Tasmania was granted to Renison Limited on the 5th August 1966 and covered an area of 216 km<sup>2</sup> north of Queenstown (see Figure 2.1). Over the next ten years, a further three Exploration Licences were granted to the Mt. Lyell Mining and Railway Company Ltd. in the general Queenstown area, namely EL's 10/69 (Dora-Huxley), 41/71 (Henty-Yolande) and 21/76 (Jukes-Darwin) (see Figure 2.2). On the 13th September, 1978, these four licences were amalgamated into the one licence, EL9/66 and five months later the Lake Mary area (ELA 23/78) was added to bring the total area up to 594 km<sup>2</sup>, excluding the Mt. Lyell Consolidated Mining Lease, 15M/75 (see Figure 2.3). Then, on the 5th August, 1980, EL9/66 was enlarged to 637 km<sup>2</sup> with the addition of 30 km<sup>2</sup>, previously held under ML 15M/75 and not included in the Consolidated ML 30M/80, and 21 km<sup>2</sup> to cover the proposed Princess Creek tailings dam area (see Figure 2.4). Since 1980 EL9/66 has been progressively reduced in area to comply with the Mines Department regulations, namely to 446 km<sup>2</sup> in 1983 (see Figure 2.5) and 128 km<sup>2</sup> over four separate blocks in 1984 (see Figure 1.1). Table 2.1 details a chronological history of the status of EL9/66 and associated Licences including the numerous adjustments, amalgamations and additions and reductions in area.

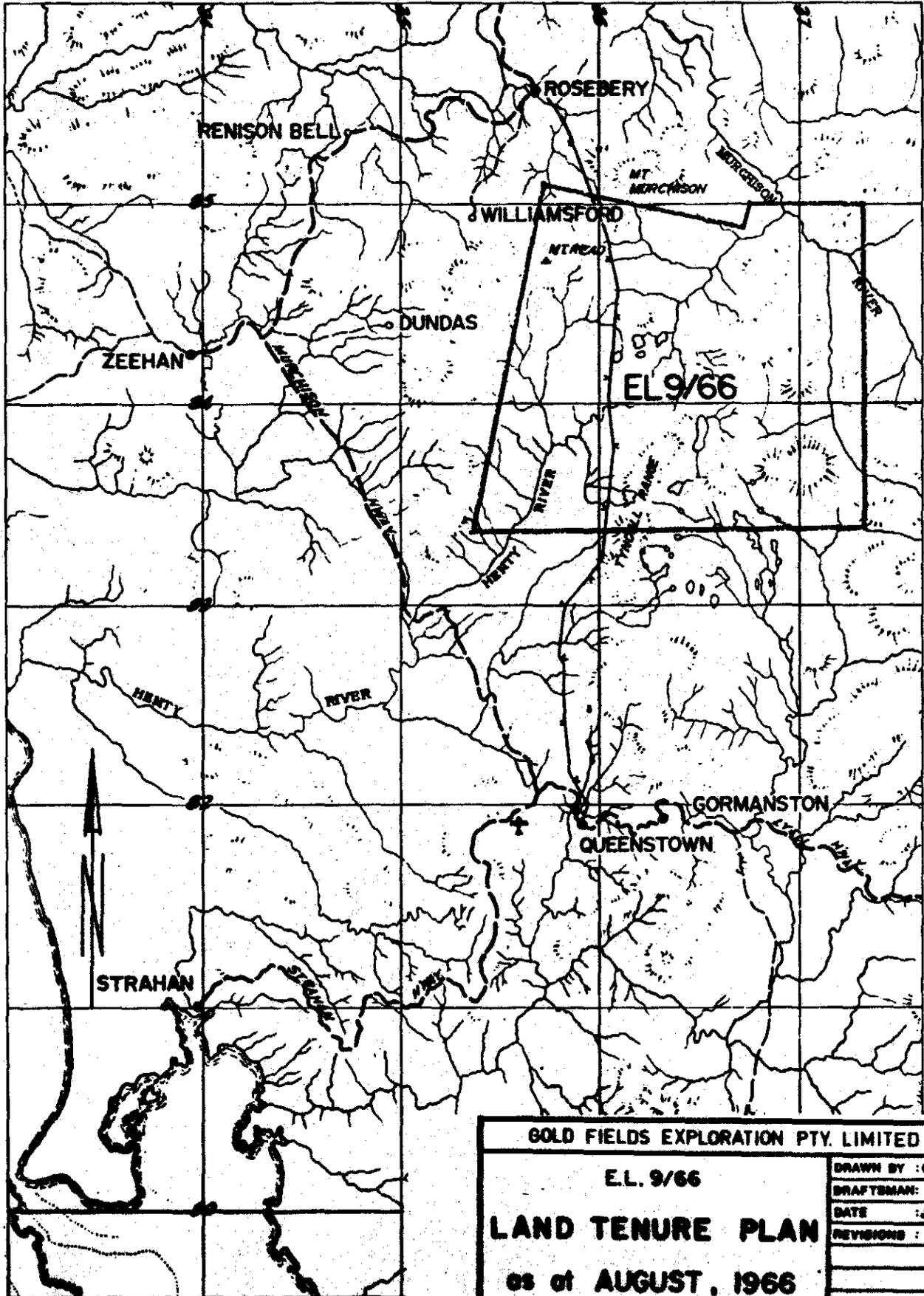
The exploration over EL9/66 was conducted by the Mt. Lyell Mining and Railway Company Ltd. until June 1982. Since that time Gold Fields Exploration Pty. Ltd., also a division of Renison Goldfields Consolidated Ltd. (RGC), has carried out this work.

On the 4th November, 1976 a Joint Venture Agreement was signed with the Getty Oil Developmet Co. Ltd. over EL's 9/66, 10/69 and 41/71. Exploration Licence 21/76 was incorporated into this Joint Venture on the 15th April, 1977. Getty earned a 40% interest in the amalgamated EL9/66 by expending a total of one million dollars over the ensuing three years, thereafter matching the Mt. Lyell expenditure to maintain this equity. Getty sold their interest to Little River Goldfields N.L. on the 22nd August, 1985 following the takeover of Getty Oil world-wide. Little River did not contribute to the 1985-86 exploration expenditure and diluted their interest, accordingly. The restructured Little River Resources Pty. Ltd. (LRR) did contribute to the 1986-87 program. The equity as at

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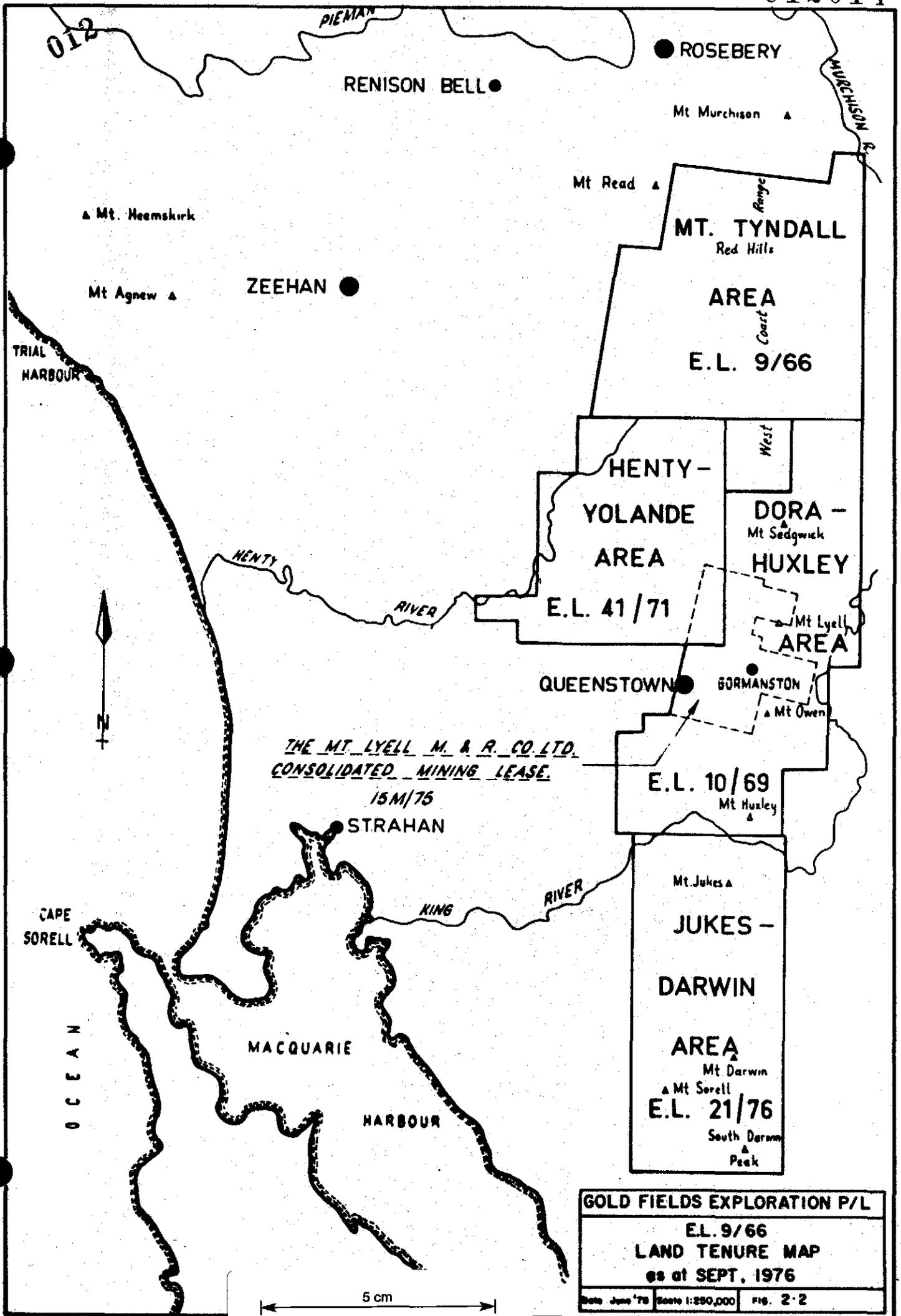
Table 2.1 EL9/66 LAND TENURE HISTORY

<u>DATE</u>	<u>LICENCE</u>	<u>TITLE HOLDER</u>	<u>AREA (km<sup>2</sup>)</u>	<u>COMMENTS</u>
8. 8.66	EL 9/66	Renison Ltd.	216	Granted licence, Tyndall area
24. 4.67	EL 9/66	Mt. Lyell Co.	216	Transfer title to Mt. Lyell Co.
5. 6.69	EL 10/69	Mt. Lyell Co.	104	Granted licence, Dora-Huxley area
8.12.70	EL 10/69+			Amalgamated licences and
	EL 40/70	Mt. Lyell Co.	179	reduced total area
4. 8.71	EL 41/71	Mt. Lyell Co.	81	Granted licence, Henty-Yolande area
18. 8.71	EL 9/66	Mt. Lyell Co.	174	Mines Dept. change boundaries and area reduced by Mt. Lyell
5.12.71	EL 10/69	Mt. Lyell Co.	116	Area reduced and part transferred to
	EL 41/71	Mt. Lyell Co.	129	EL41/71, now enlarged
1. 9.76	EL 21/76	Mt. Lyell Co.	144	Granted licence, Jukes-Darwin area
29. 7.76	EL 10/69	Mt. Lyell Co.	132	Area increased by 16 km <sup>2</sup>
4.11.76	EL's 9/66, 10/69 & 41/71	Mt. Lyell Co.	total 435	Joint Venture with Getty Oil signed
15. 4.77	EL 21/76	Mt. Lyell Co.	144	Incorporated into Getty Joint Venture
? . 9.78	ELA23/78	Mt. Lyell Co.	15	Application, Lake Mary area
13.12.78	EL 9/66	Mt. Lyell Co.	579	Amalgamated EL's 9/66 + 10/69 + 41/71 + 21/76
2. 2.79	EL 9/66	Mt. Lyell Co.	594	ELA 23/78 granted & amalgamated
5. 8.80	EL 9/66	Mt. Lyell Co.	637	Enlarged to include: 30km <sup>2</sup> , excluded from M.L. 15/75 to form 30/80; 21km <sup>2</sup> for proposed Princess River tailings dam.
19. 9.83	EL 9/66	Mt. Lyell Co.	446	Area reduced, still includes "Buffer Zone"
9. 7.84	EL 9/66	Mt. Lyell Co.	128	Area reduced, excludes A to P area
5. 8.85	EL 9/66	Mt. Lyell Co.	124	Area adjusted to exclude Lake Margaret HEC vested land
22. 8.85	EL 9/66	Mt. Lyell Co.	124	Getty Joint Venture interest sold to Little River Goldfields N.L.



5 cm

<b>GOLD FIELDS EXPLORATION PTY. LIMITED</b>	
<b>E.L. 9/66</b>	
<b>LAND TENURE PLAN</b>	
<b>as of AUGUST, 1966</b>	
DRAWN BY : CL.B.	
DRAFTSMAN:	
DATE : July 66	
REVISIONS :	
FILE NO.	
SCALE 1" = 4 Miles	<b>FIG. 2-1</b>



RENISON BELL ●

● ROSEBERY

Mt Murchison ▲

Mt Read ▲

▲ Mt. Heemskirk

**MT. TYNDALL**  
Red Hills

Mt Agnew ▲

ZEEHAN ●

AREA

E.L. 9/66

TRIAL  
HARBOUR

HENTY-  
YOLANDE  
AREA

West

DORA -  
Mt Sedgwick  
HUXLEY

E.L. 41/71

Mt Lyell  
AREA



QUEENSTOWN ●

GORMANSTON ●

THE MT. LYELL M. & R. CO. LTD.  
CONSOLIDATED MINING LEASE.

15M/75

STRAHAN ●

E.L. 10/69  
Mt Huxley

Mt Jukes ▲

JUKES -

DARWIN

AREA

Mt Darwin

▲ Mt Sorell

E.L. 21/76

South Darwin  
▲ Peak

CAPE  
SORELL

OCEAN

MACQUARIE

HARBOUR

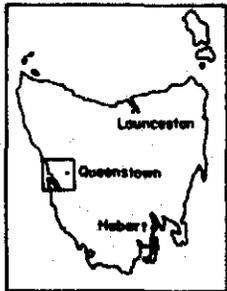
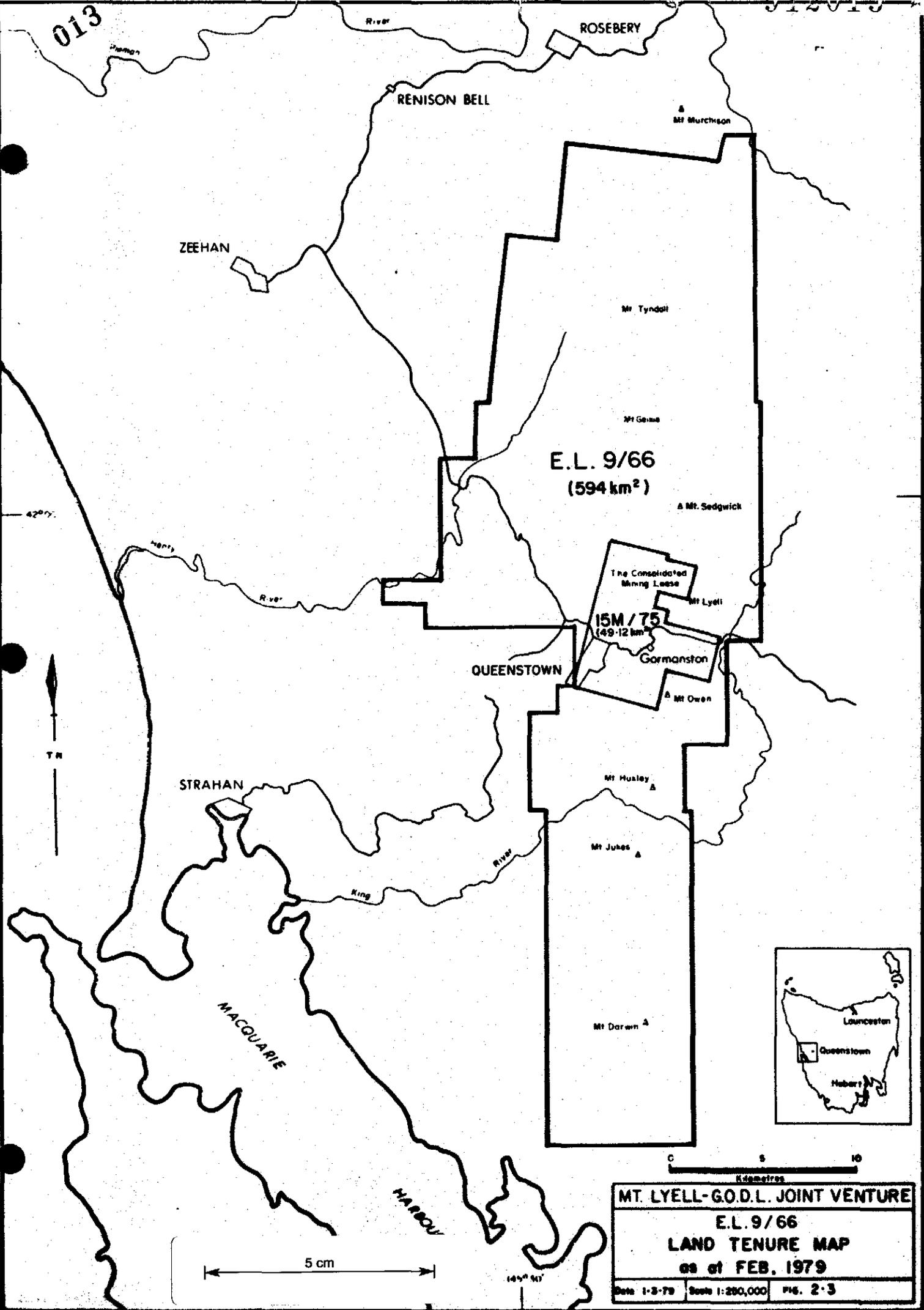
KING RIVER

RIVER

5 cm

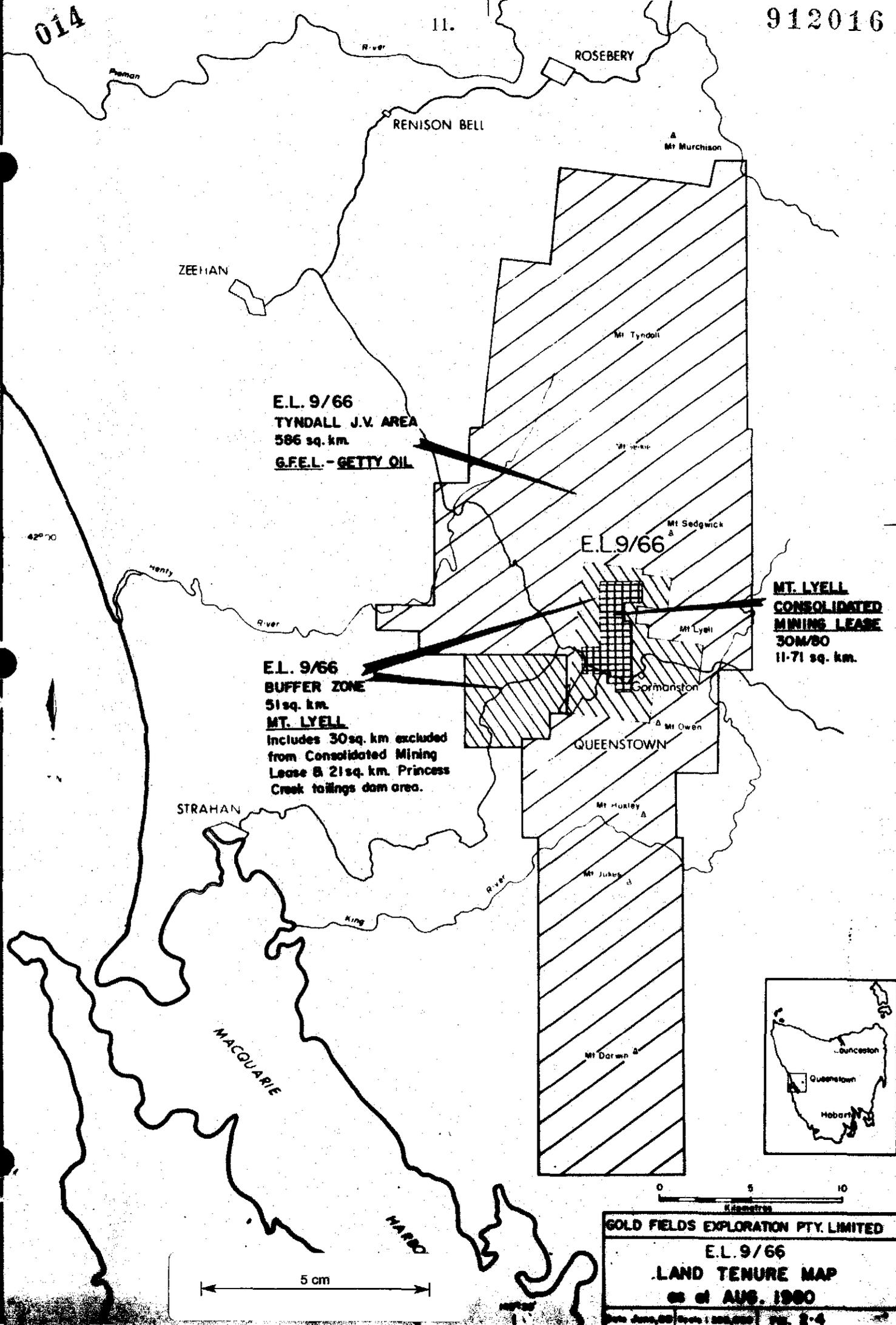
GOLD FIELDS EXPLORATION P/L		
EL. 9/66		
LAND TENURE MAP		
as at SEPT. 1976		
Date June '78	Scale 1:250,000	Fig. 2-2

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**MT. LYELL-G.O.D.L. JOINT VENTURE**  
**E.L. 9/66**  
**LAND TENURE MAP**  
**as of FEB. 1979**

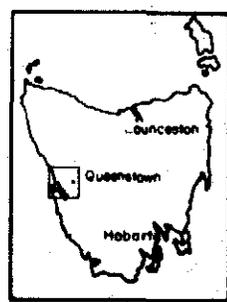
Date: 1-8-79	Scale: 1:250,000	FIG. 2-3
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**E.L. 9/66  
BUFFER ZONE  
51sq. km.  
MT. LYELL  
Includes 30sq. km excluded  
from Consolidated Mining  
Lease & 21sq. km. Princess  
Creek tailings dam area.**

**MT. LYELL  
CONSOLIDATED  
MINING LEASE  
30M/80  
11.71 sq. km.**

**GOLD FIELDS EXPLORATION PTY. LIMITED  
E.L. 9/66  
LAND TENURE MAP  
as of AUG. 1980**



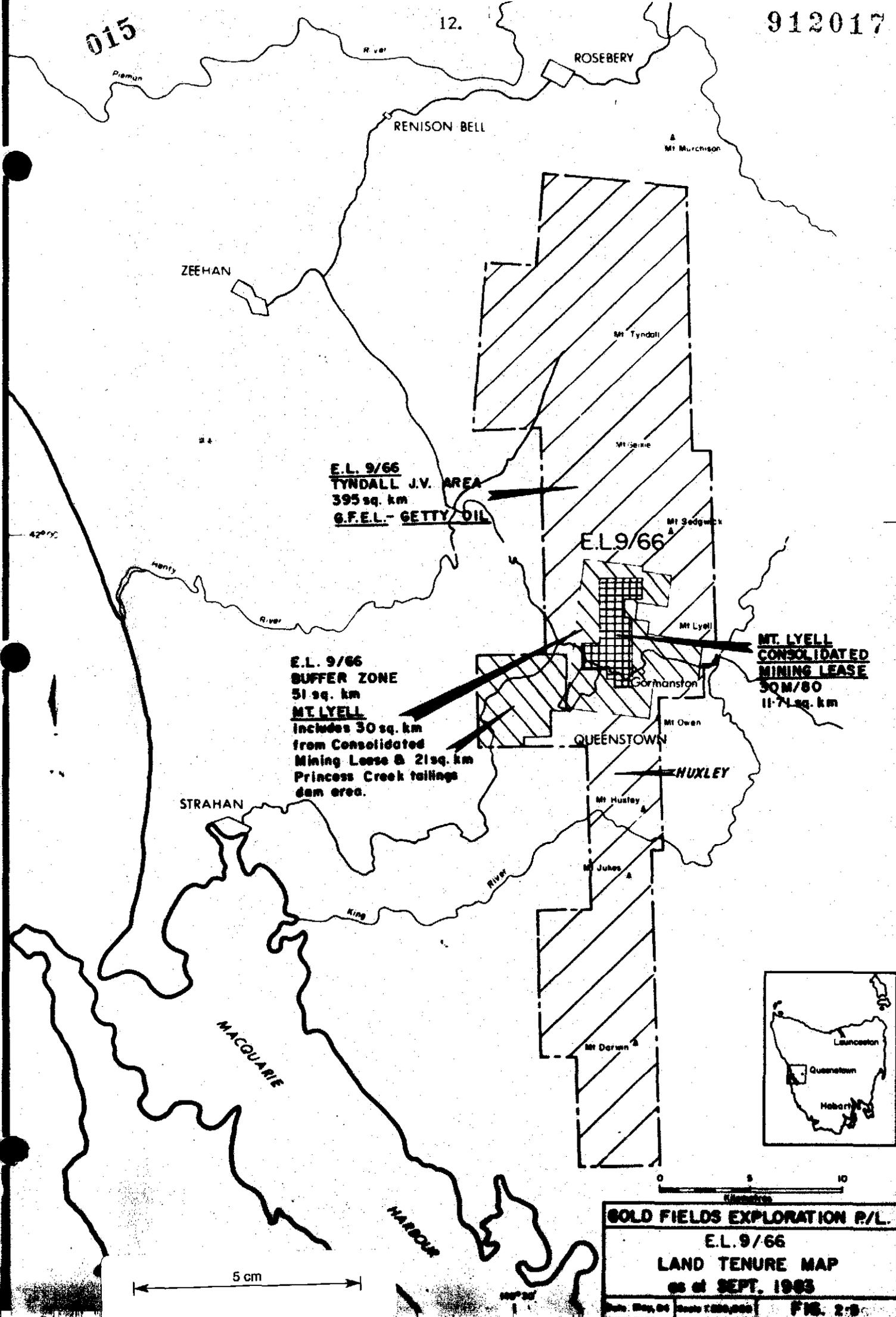
5 cm

0 5 10  
Kilometres

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912017



12.

30th June 1987 in EL9/66 is RGC 64.7%; LRR 35.3%

Under the present Exploration Licence tenure conditions, EL9/66 is due for relinquishment on the 5th August, 1987. However, provision exists under the Mines Department regulations for the retention of an area beyond the final expiry date to permit evaluation of a recent discovery. Consequently, application has been made to retain the Henty Prospect area beyond 5th August 1987 and to relinquish the rest of EL9/66.

## 3. SUMMARY OF EXPLORATION COMPLETED 1966-87

3.1 1966-67

## 3.1.1 EL9/66 (Elms, 1967)

## 3.1.1.1 East Tyndall

Access:- extend Bradshaw's Road, gridding  
Geology:- mapping  
Geophysics:- reconnaissance dipole-dipole IP (McPhar)

3.2 1967-68

## 3.2.1 EL9/66 (Newnham, 1968)

## 3.2.1.1 East Tyndall

Access:- in-fill gridding  
Geology:- mapping  
Geophysics:- detailed dipole-dipole IP (McPhar) → 5  
anomalous zones.  
Geochemistry:- stream, soil and rock-chip

## 3.2.1.2 West Tyndall

Access:- extend Howards Road, gridding  
Geophysics:- reconnaissance dipole-dipole IP (McPhar) → 8  
anomalous zones.  
Geochemistry:- stream, soil and rock-chip

3.3 1968-69

## 3.3.1 EL9/66 (Newnham, 1969)

## 3.3.1.1 Red Hills

Access:- road construction, gridding

## 3.3.1.2 Henty Fault Zone (Mt. Read)

Access:- road construction, gridding  
Geophysics:- reconnaissance VHEM, fluxgate magnetics  
Geochemistry:- reconnaissance soil.

## 3.3.1.3 Rolleston

Access:- road construction commenced

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14.

## 3.3.1.4 West Tyndall

Geology:- mapping  
 Geophysics:- fluxgate magnetics  
 Geochemistry:- reconnaissance soil

## 3.3.1.5 East Tyndall

Geology:- costeaning IP/geochem. anomalies  
 Geochemistry:- detailed soil  
 Drilling: TYNI (224m)→graphitic shales, no significant mineralization.

## 3.3.1.6 Howards Anomaly

Access:- gridding  
 Geology:- costeaning IP/geochem. anomalies  
 Geophysics:- fluxgate magnetics→3 main anomalies  
 Geochemistry:- limited detailed soil

3.4 1969-70

## 3.4.1 EL9/66 (Newnham, 1970)

## 3.4.1.1 Red Hills

Access: extend road, gridding  
 Geology:- mapping, examine old workings, petrography  
 Geophysics:- pole-dipole IP, SP, resistivity, fluxgate magnetics (C.G.G.)→5 anomalies  
 Geochemistry:- soil and rock, adit sampling

## 3.4.1.2 Selina

Access:- commence road construction, gridding

## 3.4.1.3 Rolleston

Access:- extend road, gridding  
 Geology:- mapping, petrography LS1  
 Geophysics:- pole-dipole IP, resistivity, SP, fluxgate magnetics (C.G.G.)→13 anomalies  
 Geochemistry:- soil, rock  
 Drilling:- LS1 (217m)→very minor Cu, Pb, Zn mineralization.

15.

## 3.4.1.4 Dora

Access:- road construction, gridding  
 Geology:- mapping, petrography  
 Geophysics:- pole-dipole IP, resistivity, SP, fluxgate  
 magnetics (C.G.G.)→7 anomalies  
 Geochemistry:- soil, rock.

## 3.4.1.5 Newton Creek

Access:- gridding  
 Geophysics:- vertical field magnetics

## 3.4.1.6 Henty Fault Zone (Mt. Read)

Access:- gridding extended

## 3.4.2 EL10/69 (Newnham, 1970)

## 3.4.2.1 Huxley

Access:- commence road construction  
 Geology:- reconnaissance mapping, compilation

3.5 1970-71

## 3.5.1 EL9/66 (McKibben, 1971)

## 3.5.1.1 Red Hills

Access:- road extended, gridding extended  
 Geology:- mapping, sampling old adits  
 Geophysics:- pole-dipole IP, resistivity, SP, fluxgate  
 magnetics (C.G.G.)→confirmed previous  
 anomalies, no new zones  
 Geochemistry:- soil, adit chip sampling→encouraging Cu  
 values  
 Drilling:- 26 short percussion holes→minor Cu miner-  
 alization.

## 3.5.1.2 Selina

Access:- road extended, limited grid extensions  
 Geology:- mapping, petrography  
 Geophysics:- pole-dipole IP, resistivity, SP, fluxgate  
 magnetics (C.G.G.)→outlined strong IP  
 anomaly along >1.5 km. extent  
 Geochemistry:- soil  
 Drilling:- LS4 (326m)→197m @ 13% FeS<sub>2</sub> ("Western Pyrite Zone")

020

16.

3.5.1.3 Rolleston

Geology:- mapping, petrography, resistivity  
 Geophysics:- gradient array IP, (C.G.G.)  
 Drilling:- LS2 (237m)→19.5m @ 0.18% Cu, 1.6% FeS<sub>2</sub>,  
 LS3 (281m)→max. 9m @ 0.28% Cu, 4.5m @  
 1.18% Pb.

3.5.1.4 Henty Fault Zone

Access:- extend road access  
 Geology:- mapping & costean old workings→12m @  
 1.22% Cu  
 Geophysics:- vertical field magnetics.

3.5.1.5 Howards Anomaly

Drilling:- HA1 (137m) abandoned  
 HA2 (259m)→max 12.6m @ 8.8% FeS<sub>2</sub>,  
 0.05% Cu & 18m @ 5.3% FeS<sub>2</sub>, 0.1% Cu.

3.5.1.6 Anthony

Access:- road construction, gridding commenced  
 Geology:- reconnaissance mapping  
 Geophysics:- vertical field magnetics.

3.5.2 EL10/69 (Wells, 1971)

3.5.2.1 Spicer

Access:- extend Dora road south to Lake Spier  
 Geology:- mapping Dora-Comstock area.

3.5.2.2 Henty-Yolande

Geology:- preliminary mapping commenced.

3.5.2.3 Huxley

Access:- extend road  
 Geology:- attempts to find Mt. Ellen Au mine failed.

3.6 1971-72

3.6.1 EL9/66 (McKibben, 1972)

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## 3.6.1.1 Red Hills

Drilling:-

RH1 (137m)→ trace Cu

RH2 (137m)→ 70.5m @ 2.4% FeS<sub>2</sub>, 0.04% Cu

RH3 (124m)→ no Cu.

## 3.6.1.2 Selina

Drilling:-

LS5 (274m)→ 32.1m @ 10.1% FeS<sub>2</sub>, 0.05% Cu and120m @ 9.2% Fe S<sub>2</sub>, 0.08% Cu including9m @ 23.6% FeS<sub>2</sub>, 0.35% CuLS6 (305m)→ 51m @ 5.2% FeS<sub>2</sub>, 0.07% Cu and18m @ 4.0% FeS<sub>2</sub>, 0.04% Cu and69.6m @ 7.5% FeS<sub>2</sub>, 0.05% Cu

## 3.6.1.3 Henty Fault Zone

Geology:-

mapping

Geophysics:-

complete vertical field magnetics

## 3.6.1.4 White Spur

Access:-

reopen RTAE grids

Geology:-

mapping Western zone

Geochemistry:-

limited detailed rock chip.

## 3.6.1.5 Henty River

Geology:-

mapping ultra-mafic bodies

Geochemistry:-

rock chip,→ max 2700ppm Ni.

## 3.6.1.6 Anthony

Geology:-

reconnaissance mapping

## 3.6.2 EL10/69 (Wells, 1972)

## 3.6.2.1 Beatrice

Geology:-

limited mapping

## 3.6.2.3 Huxley

Access:-

complete road, gridding

Geology:-

mapping

Geophysics:-

vertical field magnetics

Geochemistry:-

soils→ ambiguous results.

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## 3.6.3 EL41/71 (Sheppard, 1972)

## 3.6.3.1 West Sedgwick

Access:- gridding commenced  
 Geology:- mapping  
 Geophysics:- limited vertical field magnetics  
 Geochemistry:- limited soil

## 3.6.3.2 Henty-Yolande

Geology:- regional mapping, compilation  
 Geochemistry:- limited rock.

3.7 1972-73

## 3.7.1 EL9/66 (Wells, 1973)

## 3.7.1.1 Selina

Geophysics:- Turair EM (Scintrex)→no major conductors  
 Petrophysical core testing (Scintrex)  
 Mercury vapour soil test  
 Geochemistry:- Ni, Co studies  
 Drilling:- LS7 (408m)→19.5m @ 10.2% FeS<sub>2</sub>, 0.07% Cu

## 3.7.1.2 Henty Fault Zone

Access:- in-fill gridding  
 Geology:- detailed mapping  
 Geophysics:- gradient array IP, total field magnetics  
 (Scintrex)→17 major anomalies  
 Mercury vapour soil test.

## 3.7.1.3 Howards Anomaly

Geology:- detailed mapping  
 Geophysics:- mercury vapour soil test.

## 3.7.2 EL10/69 (Lee, 1973)

## 3.7.2.1 Huxley

Access:- gridding extended  
 Geology:- mapping

## 3.7.3 EL41/71 (Sheppard, 1973)

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## 3.7.3.1 Henty-Yolande

Access:- cut walking tracks  
Geology:- regional mapping  
Geochemistry:- reconnaissance stream sediment.

## 3.7.3.2 Basin Lake

Geology:- reconnaissance mapping.

3.8 1973-74

## 3.8.1 EL9/66 (Wells, 1974)

## 3.8.1.1 Henty Fault Zone

Access:- roads to costeans and drill sites  
Geology:- costeaning→massive sulphide body  
Geochemistry:- detailed soil,  
costean rock chip→2.4m @ 1.8%Cu, 1.8%Pb,  
0.2%Zn, 37.9% FeS<sub>2</sub>  
Drilling:- HFZ1 (208m)→ 76m @ 0.11%Cu, 1.45% FeS<sub>2</sub>  
HFZ2 (309m)→very minor mineralization  
HFZ3 (168m)→very minor mineralization  
HFZ4 (216m)→very minor mineralization  
HFZ5 (207m)→4.4m @ 0.34%Cu, 4.2 %FeS<sub>2</sub>  
HFZ6 (160m)→0.6m @ 1.1 %Cu, 4.0%Pb, 7.0%Zn,  
15.7%S and 3m @0.5%Cu, 5.5%S  
Geophysics:- 3 array downhole IP (HFZ1), detailed pole-dipole  
and 3 array IP, electrical sounding; Turam EM  
(Scintrex).

## 3.8.1.2 East Tyndall

Geology:- mapping  
Geophysics:- reinterpretation of IP (Irvine)  
limited gradient array IP (Scintrex).

## 3.8.1.3 West Tyndall

Geophysics:- reinterpretation of IP (Irvine)  
limited gradient array IP (Scintrex).

## 3.8.1.4 Selina

Geochemistry:- trace element study, drill core (Walshe).

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## 3.8.2 EL10/69 (Wells, 1974)

## 3.8.2.1 Beatrice

Geology:- preliminary mapping

## 3.8.2.2 Little Owen

Access:- gridding, northwards to Mine Lease

Geology:- commenced mapping

Geophysics:- gradient array IP (Scintrex).

## 3.8.3 EL41/71 (Sheppard, 1974)

## 3.8.3.1 Basin Lake

Geology:- reconnaissance mapping

Geochemistry:- limited rock chip

## 3.8.3.2 Henty-Yolande

Geology:- reconnaissance mapping, petrography

Geochemistry:- stream sediment, limited rock chip.

## 3.8.3.3 West Sedgwick

Access:- gridding

Geology:- detailed mapping, petrology

Geophysics:- gradient array IP (Scintrex)→4 major anomalies  
total field magnetics.Geochemistry:- limited rock chip over Margaret Tram massive  
pyrite.3.9 1974-75

## 3.9.1 EL9/66 (Stevens-Hoare, 1975)

## 3.9.1.1 Henty Fault Zone

Access:- regridding, limited bulldozing

Geology:- detailed mapping, southern portion, petrography

Geophysics:- gradient array IP, proton magnetics (Scintrex)→4  
main anomalies

Geochemistry:- detailed soil

Drilling:- HFZ7 (261m)→2.4m @ 0.3%Cu, 0.3%Pb, 0.5%Zn,  
8.1%FeS<sub>2</sub>

HFZ8 (233m)→minor sulphide mineralization.

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- 3.9.1.2 White Spur
- Access:- gridding, recleared and extended  
 Geology:- detailed mapping  
 Geophysics:- total field magnetics  
 Geochemistry:- detailed soil
- 3.9.1.3 Howards Anomaly
- Access:- gridding, recleared and in-filled  
 Geology:- detailed mapping, petrography  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 →7 major anomalies  
 Geochemistry:- detailed soil  
 Drilling:- HA3 (244m)→narrow pyritic black shale.
- 3.9.1.4 East Tyndall
- Access:- reclearing and in-fill gridding, minor bulldozing  
 Geology:- detailed mapping  
 Geophysics:- gradient array IP, proton magnetics, mercury  
 vapour in soils (Scintrex)→2 major anomalies  
 Geochemistry:- detailed soil  
 Drilling:- TYN2 (260m)→pyritic black shales, unmineralized  
 TYN3 (366m)→pyritic black shales, max. 1.5m @ 0.1%Cu
- 3.9.1.5 West Tyndall
- Geology:- mapping
- 3.9.2 EL10/69 (Brophy, 1975)
- 3.9.2.1 Little Owen
- Geology:- detailed mapping and sampling  
 Geochemistry:- detailed soil
- 3.9.2.2 Huxley
- Geology:- mapping, sampling old workings, petrology  
 Geochemistry:- reconnaissance soil, limited rock
- 3.9.3 EL41/71 (Sheppard, 1975)
- 3.9.3.1 Basin Lake
- Access:- gridding  
 Geology:- detailed mapping

## 3.9.3 EL41/71 (Sheppard, 1975) Continued....

Geophysics:- gradient array IP, electrical soundings, proton magnetics (Scintrex)→21 major anomalies  
 Geochemistry:- stream sediment, limited rock.

## 3.9.3.2 Madame Howard Plains

Access:- gradient array IP, proton magnetics (Scintrex)  
 →1 minor anomaly.  
 Geology:- detailed mapping, sampling old workings.

## 3.9.3.3 West Sedgwick

Access:- gridding extended  
 Geology:- detailed mapping  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 →22 anomalies  
 Geochemistry:- detailed soil, limited stream sediment and rock.

## 3.9.3.4 Henty-Yolande

Geology:- regional mapping  
 Geochemistry:- stream sediment.

3.10 1975-76

## 3.10.1 EL9/66 (Stevens-Hoare, 1976)

## 3.10.1.1 Red Hills

Geology:- detailed mapping  
 Geophysics:- limited total field magnetics  
 Geochemistry:- detailed soil, rock chip.

## 3.10.1.2 Henty Fault Zone (Mt. Read)

Geology:- reconnaissance mapping (Mt. Read), detailed mapping (HFZ)  
 Geochemistry:- detailed soil (Mt. Read).

## 3.10.1.3 White Spur

Access:- limited gridding  
 Geology:- limited mapping  
 Geochemistry:- regional soil

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## 3.10.2 EL10/69 (Brophy, 1976)

## 3.10.2.1 Spicer

Geology:- mapping.

## 3.10.2.2 Beatrice

Geology:- mapping

Geochemistry:- limited rock chip and stream sediment.

## 3.10.2.3 Lynch Creek

Geology:- mapping

Geochemistry:- limited stream sediment.

## 3.10.2.4 Huxley

Geology:- sampling Mt. Ellen Gold Mine

Geochemistry:- rock chip (Mt. Ellen, Mountain Maid) → max  
assays 6.2g/t & 4.6g/t Au (Mt. Ellen).

## 3.10.3 EL41/71 (Brophy and Stevens-Hoare, 1976)

## 3.10.3.1 Basin Lake

Geochemistry:- soil

## 3.10.3.2 Madame Howard Plains

Geochemistry:- soil

## 3.10.3.3 West Sedgwick

Geochemistry:- soil (grid extensions).

3.11 1976-77

## 3.11.1 EL9/66 (Walter &amp; Brophy, 1977)

## 3.11.1 Red Hills

Access:- gridding extended

Geology:- limited mapping, petrography (RH5)

Geophysics:- limited gradient array IP (Scintrex) → 1 main  
anomaly, down-hole pole-dipole IP RH5 (Scintrex).

Geochemistry:- limited soil and rock chip

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## 3.11.1.1 Red Hills....Continued.

Drilling:- RH4 (310m)→7.5m @ 0.3%Zn, 3m @ 0.9%Cu,  
7m @ 0.2%Cu  
RH5 (238m)→3m @ 0.3%Cu, 11.2%Pb, 31.8%Zn,  
154g/t Ag, 5.8g/t Au (Massive Sulphide)  
RH6 (157m) abandoned  
RH6R (454m)→minor Pb/Zn, max: 15m @ 0.8% Zn,  
3m @ 1.6%Zn, 7.5m @ 0.9%Pb, 0.7%Zn  
RH7 (322m)→6m @ 1.9%Zn, 0.25%Cu.

## 3.11.1.2 White Spur

Access:- gridding extended  
Geophysics:- gradient array IP, proton magnetics (Scintrex)  
→13 main anomalies  
Geochemistry:- detailed soil

## 3.11.2 EL10/69 (Walter, 1977)

## 3.11.2.1 Beatrice

Access:- road construction, gridding  
Geology:- detailed mapping, petrography  
Geophysics:- gradient array IP, proton magnetics (Scintrex)  
→6 main anomalies  
Geochemistry:- limited rock chip.

## 3.11.3 EL41/71 (Meares, 1977)

## 3.11.3.1 Basin Lake

Geology:- costean IP/geochem. anomaly  
Geochemistry:- complete soil sampling

## 3.11.3.2 West Sedgwick

Access:- gridding extended  
Geophysics:- gradient array IP, pole-dipole IP (Scintrex)  
→2 major anomalies  
Geochemistry:- detailed soil  
Drilling:- WS1 commenced.

## 3.11.4 EL21/76 (Reid, 1977)

## 3.11.4.1 General

Review:- detailed review of all previous exploration and old workings.

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3.12 1977-78

## 3.12.1 EL9/66 (Walter, 1978)

## 3.12.1.1 Red Hills

Access:- gridding extended (Northern area)

Geology:- costean over RH5 mapped, mapping grid extension

Geophysics:- gradient array IP, proton magnetics (Scintrex) over grid extension→3 weak anomalies  
down-hole IP, resistivity (RH6-9) (Scintrex)  
applied potential, MIP down-hole RH5 (Scintrex)  
detailed gradient array IP over RH5 (Scintrex)

Geochemistry:- reconnaissance soil, channel rock sample costean  
→no anomalies.

Drilling:- RH8 (380m)→1.5m @ 1.4%Pb, 1.7%Zn, 9g/t Ag and  
7.5m @ 1.1%Zn  
RH9 (388m)→51m @ 1.04%Zn including 9m @ 1.6%Zn,  
0.3%Pb, 10g/t Ag; 10.5m @ 2.0%Zn,  
0.4%Pb  
RH10 (475m)→0.3m @ 0.9%Cu  
RH11 (381m)→61.5m @ 0.4%Zn, 0.2%Pb including  
3m @ 2.0%Zn, 0.5%Pb, 11g/t Ag and  
6m @ 1.5%Zn, 0.5%Pb, 4g/t Ag.

## 3.12.1.2 White Spur

Access:- in-fill gridding (eastern & western areas)

Geology:- detailed mapping, costean mapping

Geophysics:- gradient array IP, proton magnetics (Scintrex)  
→1 main anomaly (eastern area), 8 main anomalies  
(western area)  
limited dipole-dipole IP (eastern area)

Geochemistry:- detailed soil sampling (eastern & western areas)  
channel rock sampling costeans→poor results.

## 3.12.2 EL10/69 (Hutton, 1978)

## 3.12.2.1 Beatrice

Access:- gridding extended

Geology:- limited mapping, petrography

Geochemistry:- detail soil→major Pb/Zn anomaly

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## 3.12.3 EL41/71 (Meares, 1978)

## 3.12.3.1 Henty River

Access:- gridding  
 Geology:- mapping and sampling old workings, petrography  
 Geochemistry:- adit channel sampling→max values  
 6m @ 4.4%Pb, 1.7%Zn, 18 g/t Ag  
 rock chip sampling→max. 4.1%Pb, 2.0%An, 40g/t Ag  
 Detailed soil sampling→major Cu/Pb/Zn/Ag anomaly

## 3.12.3.2 Basin Lake

Access:- in-fill gridding  
 Geology:- costean IP anomaly→pyritic black shale  
 Geophysics:- gradient array IP, limited dipole-dipole IP (Scintrex)  
 →close off previous anomalies  
 down-hole pole-dipole IP (BL1) (Scintrex)  
 Geochemistry:- detailed soil, rock chip costean  
 Drilling:- BL1 (484m)→2 intersections both 4.5m @ 0.1%Pb,  
 0.4%Zn, 4g/t Ag  
 BL2 (296m)→4.5m @ 0.2%Pb, 0.05%Zn

## 3.12.3.3 West Sedgwick

Drilling:- WSI (92m) abandoned  
 WS2 (224m)→only minor pyrite  
 WS3 (260m)→pyritic black shale, unmineralized

## 3.12.4 EL21/76 (Hutton, 1978)

## 3.12.4.1 Snake Spur (Currie)

Access:- helipads and tracks cut, helicopter supported  
 Geology:- reconnaissance mapping, sampling Snake Spur Costean,  
 Petrography  
 Geochemistry:- limited stream sediments,  
 rock chip Snake Spur costean→8m @ 0.96%Cu.

## 3.12.4.2 Garfield (Flannigans)

Access:- helipads and tracks cut, helicopter supported  
 Geology:- reconnaissance mapping, petrography  
 Geochemistry:- limited stream sediment and rock chip

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## 3.12.4.3 Clark Valley

Access:- track cutting, gridding  
 Geology:- mapping, petrography  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 → 4 major anomalies  
 Geochemistry:- detailed soil, rock chip

3.13 1978-79

## 3.13.1 EL9/66 (Reid, Meares, Walter, Hutton &amp; Drake, 1979)

## 3.13.1.1 Henty Fault Zone - Red Hills

Geophysics:- aeromagnetic survey (Geoex)

## 3.13.1.2 White Spur

Access:- in-fill gridding (western area)  
 Geology:- detailed mapping completed (western area),  
 petrography (WSP1)  
 Geophysics:- gradient array IP (western area), proton magnetics  
 (Scintrex)  
 Down-hole IP magnetic susceptibility WSP1 (Scintrex)  
 Aeromagnetic survey (Geoex)  
 Geochemistry:- soil and rock chip (western area)  
 Drilling:- WSP1 (382m) → 8m @ 0.3%Zn & 2m @ 0.6%Zn, 0.1%Pb.

## 3.13.1.3 Howards Anomaly

Access:- re-establish grids  
 Geology:- data review, mapping Tyndall Mine  
 Geophysics:- aeromagnetic survey (Geoex)  
 Geochemistry:- soil and rock sampling Tyndall Mine → anomalous  
 Pb > Zn

## 3.13.1.4 Henty River

Access:- gridding extended, re-cleared, helicopter-supported  
 Geology:- detailed mapping  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 → 3 major anomalies  
 down-hole IP, HR1 (part) (Scintrex)  
 Geochemistry:- detailed soil and rock chip → major Ag-Pb-Zn  
 anomalies, orientation stream sediment and  
 river water sampling.

3.13.1.4 Henty River.....Continued

Drilling:- HR1 (371m)→3m @ 1.1%Zn and 4.5m @ 0.2%Pb,  
0.4%Zn  
HR2 (231m)→12m @ 4.2%Pb, 1.8%Zn, 16g/t Ag and  
4.5m @ 1.5%Pb, 0.4%Zn, 3.8g/t Ag

3.13.1.5 Beatrice

Access:- road extended, cut track  
Geology:- detailed mapping road and trenches, petrography  
(rocks and MS1-3)  
Geophysics:- detailed gradient array IP, limited pole-dipole and  
dipole-dipole IP, electrical soundings (Scintrex)  
→one major new anomaly, detailed previous  
anomalies  
down-hole (3 array) IP MS1, 2 and 3 (Scintrex)  
Geochemistry:- detailed soil and rock chip→major Ag-Pb-Zn anomalies,  
orientation stream sediment  
Drilling:- MS1 (329m)→6m @ 1.2%Pb, 1.9%Zn, 6g/t Ag and  
2m @ 0.1%Cu, 2.7%Pb, 5.1%Zn, 22g/t Ag  
MS2 (301m)→3.9m @ 0.6%Pb, 0.8%Zn, 8.5g/t Ag and  
7.25m @ 0.3%Pb, 0.7%Zn, 5.4g/t Ag  
MS3 (328m)→best zone 14m @ 0.5%Pb, 0.7%Zn

3.13.1.6 Lake Margaret

Geochemistry:- rock sample ironstone→0.7%Pb, 1.1%Zn, 25g/t Ag

3.13.1.7 Henty-Yolande

Access:- cut tracks

3.13.1.8 Clark Valley

Access:- upgrade road, in-fill and extended gridding,  
helicopter support  
Geophysics:- gradient array IP, proton magnetics (Scintrex)  
→total 6 main anomalies  
Geochemistry:- detailed soil, limited rock and stream sediment.

3.13.1.9 Bird River

Geochemistry:- limited soil and rock sampling old workings.

3.14 1979-80

## 3.14.1 EL9/66 (Meares, Walter and Hutton, 1980)

## 3.14.1.1 Red Hills

Geophysics:- limited gravity survey (Scintrex)

## 3.14.1.2 Henty Fault Zone

Access:- re-clearing and in-fill gridding

Geophysics:- applied potential (Scintrex)→massive sulphide extent

limited gradient array IP (Scintrex)→no anomaly

## 3.14.1.3 White Spur

Geology:- petrography WSP2

Geophysics:- limited pole-dipole and dipole-dipole IP (Scintrex)  
detailed total field magnetics (Scintrex)

limited gravity survey (Scintrex)

down-hole IP and magnetic susceptibility, WSP2 (Scintrex)

Geochemistry:- limited soil and rock chip

Drilling WSP2 (203m)→pyritic black shales, minor Pb/Zn

## 3.14.1.4 Selina

Geology:- data review; limited mapping and sampling, core petrography (LS5-6)

Geophysics:- Dighem survey (Dighem)

limited gravity survey (Scintrex)

Geochemistry:- limited rock chip, drill core extra assays.

## 3.14.1.5 Rolleston

Geology:- data review, limited mapping and sampling

Geochemistry:- limited rock chip

## 3.14.1.6 Howards Anomaly

Access:- re-clearing and in-fill gridding

Geology:- detailed mapping, pits dug over soil anomalies, petrography (rock, HA4)

Geophysics:- gradient array IP, follow-up pole-dipole IP (Scintrex)

→14 main anomalies

limited detailed total field magnetics

## 3.14.1.6 Howards Anomaly.....Continued

Geochemistry:- detailed soil sampling→max 1.0%Zn  
detailed rock chip pit sampling→max  
230g/t Ag, 2.0%Pb, 5.0%Zn  
reassay HA3→49m @ 8.4g/t Ag including  
1.5m @ 35g/t Ag

Drilling:- HA4 (403m)→35m @ 34g/t Ag including  
2m @ 410g/t Ag

## 3.14.1.7 Henty River

Access:- road constructed, gridding extended

Geology:- additional mapping, petrography (rocks and HR1-3)

Geophysics:- limited gradient array IP, proton magnetics  
(Scintrex)→no anomalies

Geochemistry:- additional soil and rock chip

Drilling:- HR3 (617m) helicopter→52.7m @ 0.24%Zn

## 3.14.1.8 Beatrice

Access:- road extended, gridding extended

Geology:- detailed mapping

Geophysics:- limited gradient array IP, pole-dipole IP,  
dipole-dipole IP, proton magnetics (Scintrex)  
down-hole 3 array IP MS4 and 5 (Scintrex)

Geochemistry:- detailed soil and stream sediment  
limited rock chip MSAZ→max 0.11%Cu, 2.3%Pb,  
2.2%Zn, 55g/t Ag

Drilling:- MS4 (350m)→4.8m @ 0.2%Pb, 0.8%Zn and  
6.0m @ 0.3%Pb, 0.7%Zn  
MS5 (139m) helicopter→3.2m @ 0.1%Pb, 0.7%Zn

## 3.14.1.9 Henty-Yolande

Geophysics:- Dighem survey→no anomalies

## 3.14.1.10 Lynch Creek

Access:- re-establish grid

Geophysics:- Dighem survey→no anomalies

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## 3.14.1.10 Lynch Creek.....Continued

limited dipole-dipole IP (Scintrex)→no anomalies

## 3.14.1.11 Bird River

Access:- clear track  
 Geology:- limited mapping  
 Geochemistry:- limited soil and rock

3.15 1980-81

## 3.15.1 EL9/66 (Meares, Hutton and Komysan, 1981)

## 3.15.1.1 Selina

Access:- re-establish grid  
 Geology:- limited mapping, pits dug, sampled, petrography,  
 Geophysics:- gradient array IP, limited dipole-dipole IP  
 (Scintrex)→"Eastern Pyrite Zone"  
 reconnaissance max-min EM (Geoterrex)  
 Geochemistry:- detailed soil, limited rock→Mt. Selina anomaly,  
 max 0.2%Cu, 0.3%Pb, 0.7%Zn 24g/t Ag  
 additional core assaying, LS4-7

## 3.15.1.2 Rolleston

Access:- re-establish grid  
 Geology:- limited mapping, petrography  
 Geophysics:- limited dipole-dipole IP (Scintrex)  
 Geochemistry:- soil and limited rock  
 additional drill core assaying LS1-3

## 3.15.1.3 Dora

Access:- re-establish grid  
 Geology:- limited mapping, petrography  
 Geochemistry:- limited rock chip

## 3.15.1.4 Spicer

Access:- gridding  
 Geology:- detailed mapping, sampling old workings, petrography

## 3.15.1.4 Spicer.....Continued

Geophysics:- gradient array IP, limited dipole-dipole IP,  
proton magnetics (Scintrex)→3 main anomalies  
Geochemistry:- detailed soil, limited rock→minor Cu, Pb, Zn.

## 3.15.1.5 Howards Anomaly

Access:- road construction, gridding extended  
Geology:- costeans dug/sampled, additional mapping, petrography  
Geophysics:- limited gradient array IP, detailed proton  
magnetics (Scintrex)→no anomalies  
Max-min EM (Geoterrex)→weak response  
Geochemistry:- detailed soil, limited stream sediment  
rock chip, costean sampling→max 10m @ 73g/t Ag  
reassaying core HA1-2→no significant Ag  
Drilling:- HA5 (298m)→8.6m @ 11.0g/t Ag

## 3.15.1.6 East Tyndall

Access: re-establish grids  
Geology:- additional mapping  
Geophysics:- gradient array IP, dipole-dipole IP (Scintrex  
→reconfirmed major anomalies  
Geochemistry:- limited detailed soil, stream sediments and rock chip  
→no significant anomalies.

## 3.15.1.7 Basin Lake

Access:- limited re-clearing grids  
Geology:- re-logging previous holes, compilation, petrography  
BL3 & 4.  
magnetic susceptibility, down-hole IP, BL3 & 4  
(Scintrex)  
Geochemistry:- limited soil resampling  
reassaying core BL1 and 2→minor Pb, Zn in BL1  
Drilling:- BL3 (451m)→6m @ 0.3%Pb  
BL4 (289m)→11.3m massive pyrite, max assay  
1.7m @ 62g/t Ag

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## 3.15.1.8 West Tyndall

Access:- re-establish grid, roads  
 Geology:- limited mapping, petrography  
 Geophysics:- limited dipole-dipole IP (Scintrex)  
 Geochemistry:- limited soil and rock chip.

## 3.15.1.9 Henty River

Geochemistry:- limited rock chip  
 Drilling:- HR4 (311m)→abandoned short of target  
 HR5 (422m)→very minor mineralization

## 3.15.1.10 Beatrice

Access:- cut helipad, track  
 Geochemistry:- limited soil and pit sampling

## 3.15.1.11 Jukes Pty

Geology:- data review, limited mapping  
 Geochemistry:- limited rock (dump)→max 12.1%Cu, 9.3g/t Au

## 3.15.1.12 Lake Margaret

Geology:- limited mapping ironstone terraces  
 Geochemistry:- limited rock→no anomalies

3.16 1981-82

## 3.16.1 EL9/66 (Meares, Purvis, Hutton &amp; Komysan, 1982)

## 3.16.1.1 Red Hills

Access:- new grid established, minor road construction  
 Geology:- detailed mapping/alteration study, petrography  
 (Eastoe)  
 Geophysics:- applied potential, RH5 (Scintrex)→limited size  
 massive sulphide body  
 sirotem EM, surface and down-hole, RH5 (Geoex)  
 →no anomalies  
 limited Genie EM and dipole-dipole IP (Scintrex)  
 →weak anomalies

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## 3.16.1.1 Red Hills.....Continued

Geochemistry:- limited soil and rock chip→minor Pb, Zn  
 Drilling:- RH12 (307m)→3m @ 0.8%Zn & 4m @ 0.5%Zn, 0.1%Pb

## 3.16.1.2 Anthony

Access:- road extended  
 Geology:- detailed mapping  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 →extended "Eastern Pyrite Zone" for 1.7 km.  
 Geochemistry:- detailed soil, limited stream sediment

## 3.16.1.3 Selina

Access:- in-fill gridding  
 Geology:- detailed mapping, alteration study & petrography  
 (Eastoe), LS8  
 Geophysics:- limited dipole-dipole IP, proton magnetics  
 (Scintrex).  
 Genie EM (Scintrex)→no anomalies  
 Down-hole IP, magnetic susceptibility, LS8  
 (Scintrex)  
 Geochemistry:- detailed soil, limited stream sediment, detailed  
 rock chip→confirm Ag-Pb-Zn anomaly  
 Drilling:- LS8 (355m)→5.6m @ 0.3%Zn, 4m @ 15%FeS<sub>2</sub>

## 3.16.1.4 Dora

Access:- in-fill gridding  
 Geology:- Sirotem EM (Geoex)→no anomalies  
 Reconnaissance Genie EM (Scintrex)→no anomalies  
 Geochemistry:- limited rock chip.

## 3.16.1.5 Spicer

Geology:- alteration study & petrography (Eastoe)  
 Geophysics:- Sirotem EM (Geoex)→no anomalies  
 Geochemistry:- limited rock chip.

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## 3.16.1.6 Howards Anomaly

Access:- in-fill gridding  
 Geology:- alteration study & petrography (Eastoe)  
 Geophysics:- dipole-dipole IP (Scintrex)→confirm anomalies  
 Geochemistry:- limited detailed soil sampling  
 Drilling:- HA6 (250m)→4.1m @ 6.3g/t Ag & 3m @ 0.2%Cu

## 3.16.1.7 East Tyndall

Access:- in-fill gridding  
 Geology:- additional mapping, alteration study & petrography (Eastoe)  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 →confirmed anomalies  
 Genie EM survey (Scintrex)→no anomalies  
 Geochemistry:- detailed soil, rock chip

## 3.16.1.8 Basin Lake

Access:- re-establish grids  
 Geology:- additional mapping, alteration study & petrography (Eastoe)  
 Geophysics:- limited dipole-dipole IP (Scintrex)→confirm anomaly  
 Genie EM survey (Scintrex)→no anomalies  
 Geochemistry:- limited rock chip

## 3.16.1.9 Henty-Yolande

Access:- tracks cut and cleared  
 Geochemistry:- comprehensive stream sediment  
 limited rock chip→no anomalies

## 3.16.1.10 Huxley

Geology:- alteration study & petrography (Eastoe)  
 Geophysics:- Dighem survey→1 significant(?) anomaly  
 Geochemistry:- comprehensive stream sediment→minor Au anomalies  
 limited rock chip.

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## 3.16.1.11 Jukes Pty.

Access:- gridding, helicopter-support  
 Geology:- detailed mapping & petrography (Eastoe)  
 Geophysics:- gradient array IP, proton magnetics (Scintrex)  
 limited dipole-dipole IP (Scintrex)→2 anomalies  
 Genie EM survey→confirmed anomalies  
 Geochemistry:- detailed soil and rock chip→several Cu-Au anomalies  
 adit channel sampling→aggregate 175.6m  
 @ 1.05%Cu, 0.72g/t Au  
 Drilling:- JP1 (142m)→2m @ 0.5%Cu  
 JP2 (158m)→13.4m @ 1.6%Cu, 1.6g/t Au, 5.4g/t Ag

## 3.16.1.12 Bird River

Geophysics:- limited Dighem survey→no anomalies

3.17 1982-83

## 3.17.1 EL9/66 (Purvis, FitzGerald &amp; Komysan, 1983)

## 3.17.1.1 Red Hills

Access:- new grid cut  
 Geology:- detailed review of data, relogging RH5-9,  
 RH5-15 petrography  
 Geochemistry:- re-assaying drill core, RH2-9→  
 RH5: 4m @ 0.4%Cu, 8.5%Pb, 26.0%Zn, 198g/t Ag,  
 5.0g/t Au including 2.8m @ 0.3%Cu, 11.4%Pb,  
 34.5%Zn, 250g/tAg, 6.5g/t Au  
 RH6R:3m @ 1.6%Zn, 0.7g/t Au  
 RH8: 7.5m @ 1.1%Zn, 2.3g/t Au including 1.5m @  
 8.1g/t Au  
 limited rock chip & dumps→max 11.1%Cu, 2.4g/t Au.  
 Drilling:- RH13 (244m)→9m @ 1.1%Zn 0.1%Pb, 0.3g/t Au  
 including 3m @ 3.1%Zn, 0.4%Pb, 6.5g/t Ag,  
 0.9g/t Au  
 RH14 (101m)→abandoned  
 RH14R (480m)→12.1m @ 0.9%Zn, 0.4%Pb, 43g/t Ag,  
 1.0g/t Au  
 including 4.2m @ 1.3%Zn, 0.5%Pb, 31g/t Ag,  
 2.2g/t Au

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## 3.17.1.1 Red Hills.....Continued

RH15 (320m)→best 35.5m @ 0.4%Zn, 0.3%Pb  
including 3.9m @ 1.6%Zn, 0.2%Pb, 7g/t Ag

## 3.17.1.2 Henty Fault Zone

Access:- new grid cut  
Geology:- detailed review of data, relogging HFZ3-6  
(English), petrography  
Geochemistry:- re-assaying drill core, limited rock chip→1.5m  
@ 1.6g/t Au (costean)  
Drilling:- HFZ9 (268m) abandoned in zone→1m @ 1.1%Cu,  
1.1%Pb, 2.2%Zn, 41g/t Ag, 1.4g/t Au  
HFZ10 (250m)→ 0.65m @ 3.8% Cu, 1.3% Pb, 0.6%  
Zn, 126g/t Ag, 7.0g/t Au & 1.55m @ 0.5% Cu, 5.1g/t  
Au  
HFZ11 (88m)→ no significant mineralization

## 3.17.1.3 Huxley

Access:- gridding  
Geology:- detailed mapping, sampling, petrography  
Geochemistry:- detailed bedrock (power auger) and outcrop  
sampling→3 Cu-Pb-Zn-Ag anomalous areas.

3.17.1.4 Geological Review-all prospect areas (Purvis, Jones, FitzGerald  
and Poltock, 1983)

Geology:- comprehensive data review, geological traverses,  
sampling, re-logging core covering all prospects,  
petrography  
Geochemistry:- Pb isotope study; Selina (CSIRO)  
re-assaying core; LS8, HA2-6, BL4, HR2, WS3  
rock chip sampling, all prospects→significant  
results: Mt. Darwin max 5.9g/t Au; Dora Workings  
max 6.2% Cu, 2.3%Pb, 5.5%Zn, 152g/t Ag, 2.0g/t Au;  
East Darwin max 2.1%Cu, 9.6g/t Au, Selina  
max 1.4%Zn, 0.5%Pb, 24g/t Ag, 0.5% Cu  
limited stream sediment→best result: Pearl Creek  
1.6g/t Au

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3.18 1983-84

## 3.18.1 EL9/66 (Roberts &amp; Cartwright, 1984)

## 3.18.1.1 Red Hills

Access:- limited road construction, helicopter support  
 Geology:- regional structural mapping, petrography  
 Drilling:- RH16 (415m)→5m @ 1.9%Zn, 1.3%Pb, 19.6g/t Ag,  
 0.6g/t Au, 4.5m @ 1.5%Zn, 0.3%Pb, 9.8g/t Ag &  
 17m @ 0.8%Zn, 0.2%Pb, 0.4g/t Au  
 RH17 (208m)→through fault into Owen Conglomerate

## 3.18.1.2 Selina

Access:- helipads cut, helicopter support  
 Geology:- regional structural mapping, detailed mapping  
 Mt. Selina, re-logging LS6, petrography  
 Geochemistry:- detailed rock chip, Mt. Selina-commenced  
 Drilling:- LS9 (303m)→no significant assays  
 LS10 (303m)→23m @ 0.1%Cu, 0.3%Zn, including  
 6m @ 0.4%Cu, 0.2%Zn, 3.5g/t Ag  
 LS11 (422m)→no significant assays  
 LS12 (330m)→no assays, hole ended in Murchison  
 Granite

## 3.18.1.3 Henty Fault Zone (&amp; Read East)

Access:- limited bulldozing, re-establish grid  
 Geology:- detailed mapping, petrography  
 Geophysics:- Dighem survey (Getty)→anomalous zone.  
 VLF-EM, max-min EM Read East (Mitre)→  
 moderate anomaly  
 Geochemistry:- rock chip (Read East)  
 Drilling:- HFZ 12 (470m)→0.45m @ 1.9% Cu, 2.4%Pb, 0.8%Zn,  
 51g/t Ag, 0.4g/t Au (massive sulphide);  
 6.3m @ 0.3% Cu, 6g/t Ag, 0.6g/t Au.

## 3.18.1.4 White Spur (Getty)

Access:- cutting access along creeks  
 Geology:- detailed mapping, sampling, petrography  
 Geophysics:- Dighem survey→no anomalies  
 Geochemistry:- rock chip→moderate Pb-Zn

## 3.18.1.5 West Tyndall (Getty)

Access:- re-establish grid  
 Geology:- limited mapping, sampling  
 Geophysics:- reconnaissance Dighem survey→no anomalies,  
 total field magnetics  
 Geochemistry:- soil (power auger), limited rock chip

## 3.18.1.6 Howards Anomaly

Geology:- petrography  
 Drilling:- HA7 (234m)→broad pyritic zone, max 3m @  
 0.2%Zn & 2m @ 10g/t Ag  
 HA8 (252m)→broad pyritic zone, ave 224.8m  
 @ 0.2%Zn, 3g/t Ag

## 3.18.1.7 Huxley

Access:- helicopter support  
 Geology:- mapping, sampling (Poltock)  
 Geochemistry:- stream sediment, limited rock chip

## 3.18.1.8 Jukes Pty

Access:- helicopter support  
 Geology:- limited mapping, petrography  
 Geochemistry:- rock chip→max 11m @ 3.4g/t Au, 0.1% Cu &  
 20m @ 1.7g/t Au, 0.1% Cu  
 Drilling:- JP3 (351m)→12m @ 0.7% Cu, 0.08g/t Au &  
 32m @ 0.3% Cu, 0.06g/t Au

## 3.18.1.9 Mt. Darwin - Intercolonial Spur

Access:- helicopter support  
 Geology:- limited mapping, sampling old workings  
 Geochemistry:- rock chip→max 3.8g/t Au, 3.5% Cu, 0.1% Sn,  
 0.1% WO<sub>3</sub>

## 3.18.1.10 Snake Spur

Access:- helicopter support  
 Geology:- mapping, sampling (Poltock)  
 Geochemistry:- detailed stream sediment, limited rock chip→  
 moderate Au anomalies.

## 3.18.1.11 Garfield - Flannigans

Access:- helicopter support  
 Geology:- mapping, sampling (Poltock)  
 Geochemistry:- detailed stream sediment, limited rock chip→  
 moderate Au anomalies.

3.19 1984-85

## 3.19.1 EL9/66 (FitzGerald &amp; Pease, 1985) - excluding Henty Prospect

## 3.19.1.1 Selina

Access:- re-establish grid, helicopter support  
 Geology:- detailed mapping, Mt. Selina  
 Geophysics:- UTEM survey (Lamontagne)→no major anomalies  
 Geochemistry:- limited rock chip→max 20g/t Ag, 0.2% Pb.

## 3.19.1.2 Henty Fault Zone (Read East)

Drilling:- RE1 (364m)→unmineralized

## 3.19.1.3 White Spur

Access:- re-establish grid  
 Geophysics:- UTEM survey (Lamontagne)→no major anomalies

## 3.19.1.4 Basin Lake

Access:- limited bulldozing  
 Geochemistry:- limited stream sediment  
 Drilling:- BL5 (347m)→6m @ 0.2%Zn, 0.1% Pb &  
 1.8m 3.5g/t Ag in semi-massive pyrite

## 3.19.1.5 West Sedgwick

Geology:- limited mapping, sampling (Poltock)  
 Geochemistry:- detailed stream sediment→minor Au anomalies  
 restricted rock chip.

## 3.19.1.6 Huxley (&amp; Mt. Ellen)

Access:- gridding (Mt. Ellen), grid extensions  
 Geology:- mapping, sampling (Poltock)

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## 3.19.1.6 Huxley (&amp; Mt. Ellen).....Continued

Geophysics:- dipole-dipole IP (Scintrex)→3 anomalies  
 Geochemistry:- detailed stream sediment→minor Au anomalies  
 soil (power auger)→confirm Ag-Pb-Zn anomaly  
 rock chip, additional Au assaying→no anomalies

## 3.19.1.7 Snake Spur

Access:- gridding, helicopter support  
 Geology:- detailed mapping  
 Geophysics:- UTEM survey (Lamontagne)→no significant anomalies  
 Geochemistry:- stream sediment survey extended→confirm Au anomalies  
 detailed bedrock (Wacker) sampling→minor Au anomalies max 0.42g/t Au.

## 3.19.1.8 Flannigans (&amp; Garfield)

Access:- limited gridding, helicopter support  
 Geology:- additional mapping, sampling (Poltock)  
 Geochemistry:- detailed stream sediment, rock chip→2 main Au anomalies  
 bedrock (Wacker) sampling→Au anomalies, max 0.46g/t Au.

3.20 1985-86

## 3.20.1 EL9/66 (FitzGerald &amp; Cartwright, 1986)-excluding Henty Prospect

## 3.20.1.1 Selina

Access:- line cutting, helipad, helicopter support  
 Geophysics:- down-hole Sirotem, LS10 & 13 (Solo)→no anomalies  
 Drilling:- LS13 (503m)→max 1m each @ 4.8%Zn; 0.3%Pb; 16g/t Ag



## 3.20.1.6 Flannigans

Access:- gridding extended, helicopter support  
 Geology:- detailed mapping, sampling (Poltock)  
 Geochemistry:- detailed bedrock (Wacker)→no major anomalies  
 limited rock sampling→max 0.26g/t Au in  
 Owen Conglomerate

3.21 1986-87

## 3.21.1 EL9/66 (FitzGerald, 1987)-excluding Henty Prospect

## 3.21.1.1 White Spur

Geophysics:- down-hole Sirotem WSP1 & 3 (Solo)→no  
 significant anomalies  
 Drilling:- WSP1 (382m), re-open for down-hole survey  
 WSP3 (360m)→no significant assays

## 3.21.1.2 Basin Lake (&amp; East Tyndall)

Access:- limited bulldozing, line cutting, bulldozing  
 rehabilitated  
 Geology:- limited mapping, sampling  
 Geophysics:- petrophysical testing, rock, BL4 (Mitre)  
 down-hole Sirotem TYN4 & 5, BL4 (part)  
 (Solo)→no significant anomalies  
 Drilling:- TYN4 (250m)→unmineralized  
 TYN5 (373m)→virtually unmineralized

## 3.21.1.3 West Sedgwick

Access:- cut helipad, helicopter support  
 Drilling:- WS4 (230m)→Sedgwick Fault, no significant  
 assays

## 3.21.1.4 Jukes Pty

Geochemistry:- limited rock chip  
 Drilling:- JP4 (226m)→7m @ 0.55%Cu, 0.08g/t Au &  
 2m @ 0.10%Cu, 0.73g/t Au.

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1969-70	Newnham, L.A. (incl. reports by Woodward, A., Williams, N., Wells, K.)
1970-71, 1971-72	McKibben, J.P.
1972-73, 1973-74	Wells, K.
1974-75, 1975-76	Stevens-Hoare, N.P.
1976-77	Walter, A.C. and Brophy, P.
1977-78	Walter, A.C.
1978-79	Reid, K.O., Meares, R.M.D., Walter, A.C. Hutton, M.J., & Drake, G.
1979-80	Meares, R.M.D., Walter, A.C. and Hutton, M.J.
1980-81	Meares, R.M.D., Hutton, M.J. and Komyshan, P.
1981-82	Meares, R.M.D., Purvis, J.G., Hutton, M.J. and Komyshan, P.
1982-83	Purvis, J.G., FitzGerald, F.G., and Komyshan, P.
1983-84	Roberts, P.A., and Cartwright, A.J.
1984-85	FitzGerald, F.G., and Pease, C.F.D.
1985-86	FitzGerald, F.G., and Cartwright, A.J. (Parts II-IV). Cartwright, A.J. (Part I)
1986-87	FitzGerald, F.G. (excluding Henty). Cartwright, A.J. (Henty)

E.L. 10/69 (Dora-Huxley)

1969-70	Newnham, L.A.
1970-71, 1971-72	Wells, K.
1972-73	Lee, K.J.
1973-74	Wells, K.
1974-75, 1975-76	Brophy, P.
1976-77	Walter, A.C.
1977-78	Hutton, M.J.

E.L. 41/71 (Henty-Yolande)

1971-72, 1972-73, 1973-74, 1974-75	Shepperd, N.W.
1975-76	Brophy, P. and Stevens-Hoare, N.P.
1976-77, 1977-78	Meares, R.M.D.

E.L. 41/71 (Jukes-Darwin)

1976-77	Reid, K.O.
1977-78	Hutton, M.J.

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4.2. GEOPHYSICAL SURVEY REPORTS (not included in annual reports)

<u>DATE</u>	<u>CONTRACTOR</u>	<u>GRID</u>	<u>SURVEY TYPE</u>	<u>REPORT NO.</u>	<u>NO. OF VOLS.</u>
June '67	McPhar	East Tyndall	I.P.; Resistivity		2
June '68	McPhar	East Tyndall, West Tyndall	I.P.; Resistivity		1
Feb '70	C.G.G.	Red Hills, Rolleston	Mag; I.P.; Resistivity; SP		2
Feb '71	C.G.G.	Rolleston, Selina, Red Hills	Resistivity; I.P. SP.		1
Nov '72	Scintrex	Selina, Cape Horn	Drill core petrophysics	Tas-004	1
Feb '73	Scintrex	Henty Fault Zone	IP	Tas-016	2
Feb '73	Scintrex	EL9/66, Mine Lease	Mercury vapour soil gas	Tas-015	1
June '73	Scintrex	Selina	Aero-mag; EM	T1031A	1
Dec '73	Scintrex	West Sedgwick	Grad IP	Tas-018B	3
Mar '74	Scintrex	Henty Fault Zone East Tyndall, West Tyndall	Pole-dipole, 3 array & down-hole IP; EM; Schlumberger Grad. IP.	Tas-018C	3
Dec '74	Scintrex	Basin Lake	Grad. IP; Mag	Tas-025B	2
Dec '74	Scintrex	Howards Anomaly, East Tyndall	Grad. IP, Schlumberger	Tas-025	2
Dec '74	Scintrex	Madame Howard	Grad. IP	Tas-025A	1
Feb '75	Scintrex	West Sedgwick Little Owen Howards Anomaly	Grad. IP Grad. IP Pole-dipole IP	Tas-025C	1
May '75	Geoterrex	Henty-Yolande W. Sedgwick	Input EM	83-259	1
Apr '77	Scintrex	Beatrice	Grad. IP.; Mag	Tas-035D	2
Apr '77	Scintrex	White Spur	Grad. IP; Mag	Tas-035C	2
May '77	Scintrex	Gooseneck	Grad. IP; Mag	Tas-035A	1
Apr '78	Scintrex	Clark Valley	Grad. IP; Mag	Tas-054D	2
June '78	Scintrex	Red Hills North	Grad. IP; Mag	Tas-054A	2
June '78	Scintrex	White Spur	Grad. IP; Mag	Tas-054B	2
July '78	Scintrex	Basin Lake, Red Hills, W.Sedgwick	Downhole IP	Tas-054E	1
Aug '78	Scintrex	Red Hills (RH5)	Applied Pot; Mag. Resistivity	Tas-054F	2

GEOPHYSICAL SURVEY REPORTS Continued:

<u>DATE</u>	<u>CONTRACTOR</u>	<u>GRID</u>	<u>SURVEY TYPE</u>	<u>REPORT NO.</u>	<u>NO. OF VOLS.</u>
Aug '78	Scintrex	Basin Lake	Grad. IP	Tas-054C	1
Apr '79	Scintrex	Beatrice	Grad. IP; Dipole-dipole IP; Electrical soundings	Tas-062A	2
May '79	Scintrex	Clark Valley	Grad. IP; Mag	Tas-062A	1
June '79	Scintrex	Henty River	Grad. IP; Mag	Tas-062B	2
June '79	Scintrex	White Spur	Grad. IP; Mag	Tas-062C	2
Mar. '80	Scintrex	Howards Anomaly	Grad. IP; Pole-dipole IP	Tas-073A	2
Apr. '80	Scintrex	Henty Fault	Applied Potential	Tas-073B	1
June '80	Scintrex	White Spur, HFZ, Henty River W. Tyndall	Grad. IP; Mag; Dipole-dipole IP	Tas-073D	1
June '80	Dighem	Henty-Yolande, Selina, Lynch Creek	Dighem	310	1
July '80	Scintrex	Red Hills, Lynch Creek, White Spur, Selina	Gravity	Tas-073E	1
Oct. '80	Scintrex	Beatrice	Grad. IP; Dipole-dipole IP; Mag	Tas-073C	1
Mar. '81	Mitre	East Tyndall	Max-Min EM	ML/MG81/05	1
Apr. '82	Dighem	Huxley, Bird River	Dighem	353	1

NOTE: Since 1982 all geophysical survey reports have been reproduced, in full, in the appendices of the appropriate annual reports.

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4.3. OTHER REPORTS NOT INCLUDED IN THE ANNUAL REPORTS

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