



MRPA 03

(3)

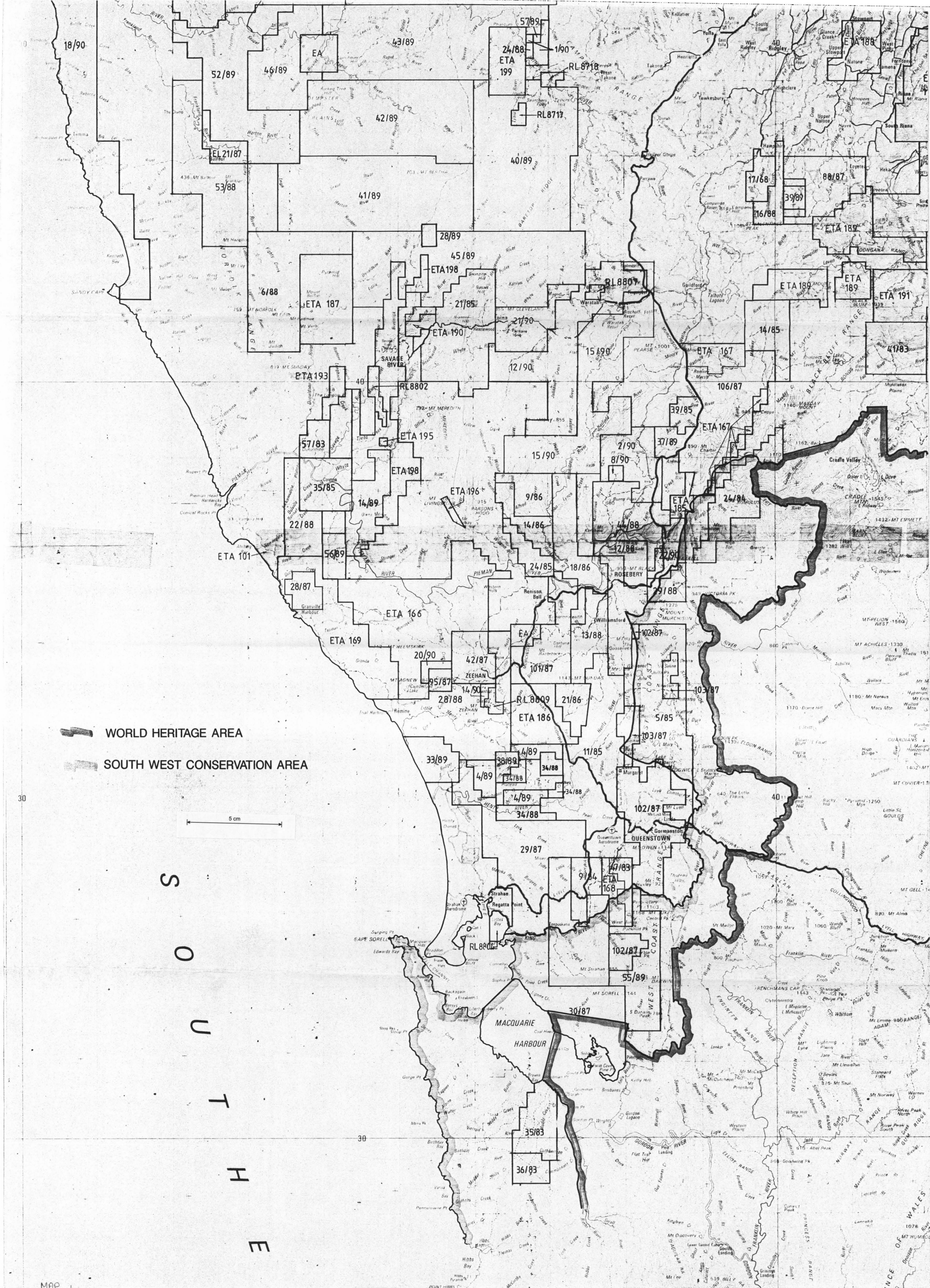
**Relationships between
World Heritage and National
Estate areas, Rainforests
and
Major Operating Mine Leases
and Current Exploration
Licences**

SECTION 2 — EXPLORATION

**DEPARTMENT OF RESOURCES AND ENERGY
DIVISION OF MINES AND MINERAL RESOURCES**

SECTION TWO

EXPLORATION



WORLD HERITAGE AREA

SOUTH WEST CONSERVATION AREA

5 km

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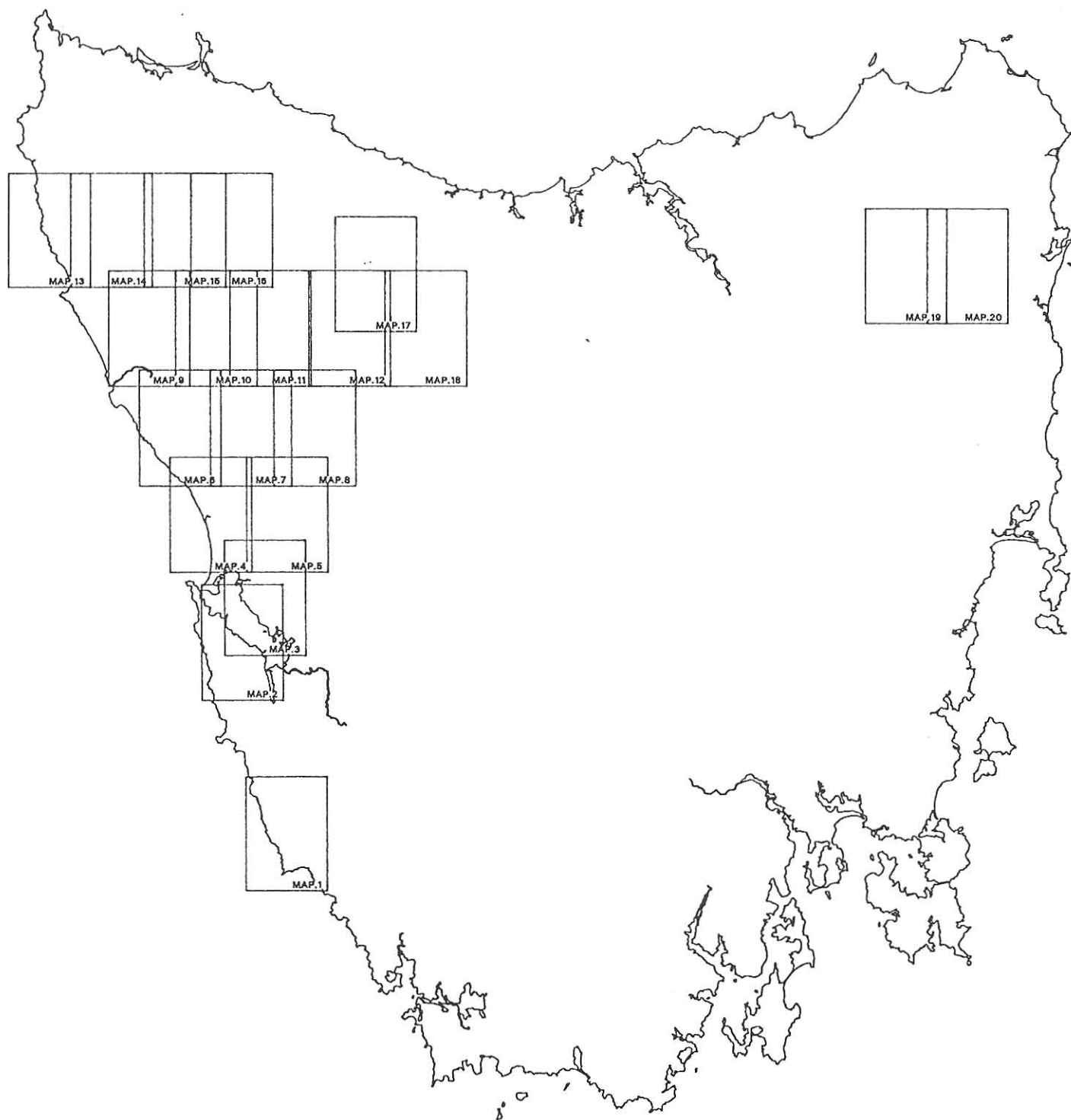
E.L. 58/88

EL Number	Location	Area (km ²)	Estimated rainforest (km ²)	Total expenditure to 31 March 1990 (\$)	Proposed expenditure, 1 July to 30 September 1990 (\$)
17/68	Emu River	14	4	88,439	Nil
37/82	The Longback	21	16	364,629	5,600
35/83	Muddy Creek	46	30	234,581	1,000
36/83	Timbertops Creek	19	6	232,187	1,000
37/83	Mainwaring River	72	25	251,037	1,000
41/83	Moina	56	6	470,831	15,500
57/83	Mt Donaldson	14	2	133,218	-
9/84	Woody Hill	27	11	242,846	1,000
24/84	Mt Romulus	65	35	296,616	5,000
4/85	Adamsfield	112	11	926,155	2,000
5/85	Lake Margaret	140	35	1,096,227	40,000
11/85	Yolande River	151	80	345,842	35,000
14/85	Mt Cattley	47	19	414,367	-
21/85	Heazlewood	123	37	1,042,733	1,000
24/85	Riley Knob	21	8	438,042	5,000
35/85	Corinna	35	19	89,285	-
39/85	Bulgobac River	16	14.5	1,095,056	80,000
40/85	Mt Osmund	250	25	1,785,080	1,000
9/86	Alfred River	33	33	48,111	-
14/86	Merton Hill	30	18	118,000	5,000
18/86	Rosebery	63	35	97,000	8,000
21/86	Mt Dundas	23	21	101,188	11,000
21/87	Balfour	20	8	50,644	-
28/87	Granville Harbour	20	6	27,311	-
29/87	Strahan	150	50	82,175	-
30/87	King River	127	13	49,823	-
34/87	Bull Creek	21	2	42,728	11,500
42/87	Zeehan	31	2	139,795	111,500
88/87	Mt Housetop	68	2	89,103	-
95/87	Zeehan	9	7	13,473	-
96/87	Preston	118	5	181,821	20,000
101/87	Dundas	64	38	422,854	36,000
102/87	Queenstown	99	1	1,253,108	182,000

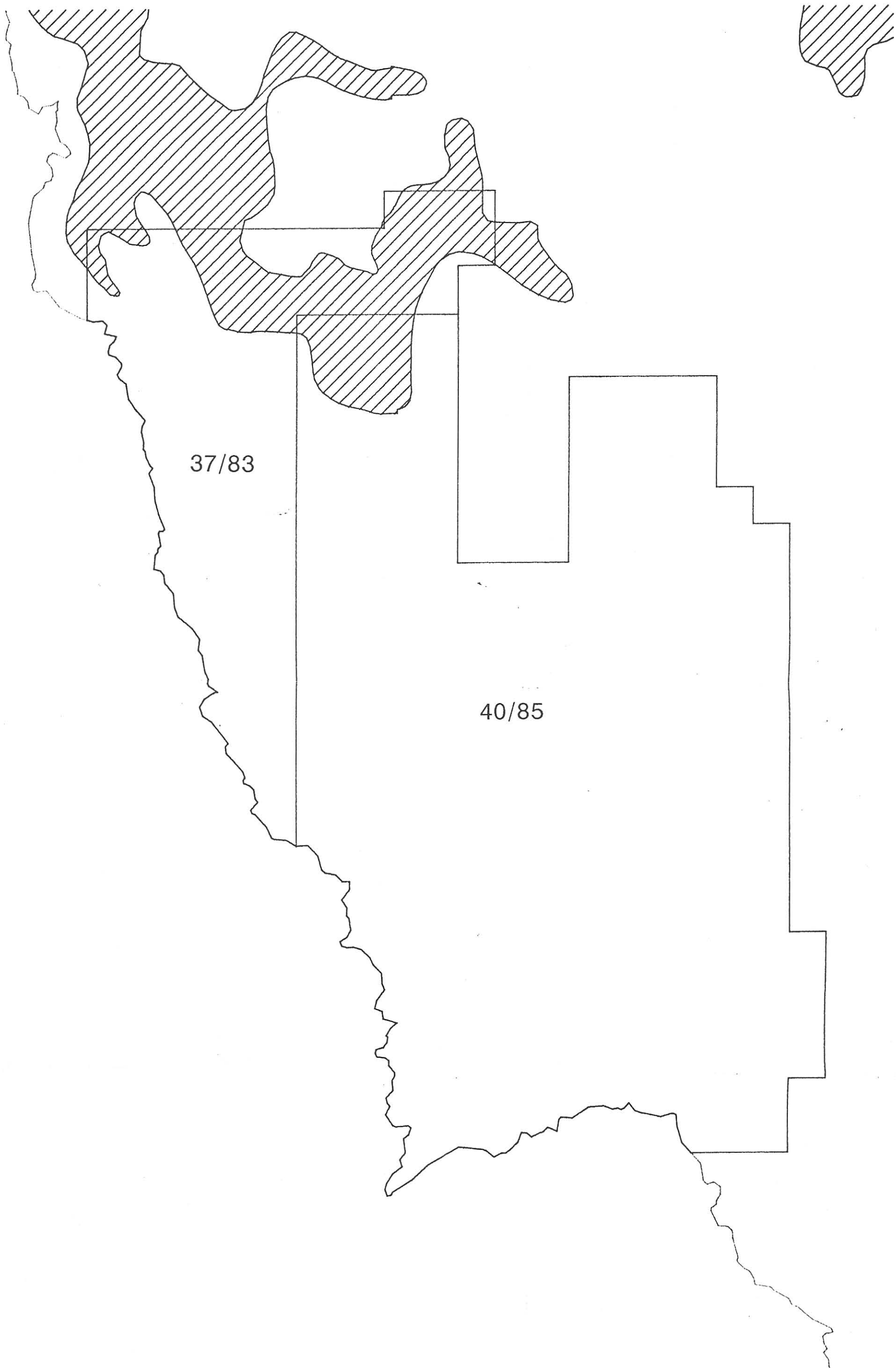
EL Number	Location	Area (km ²)	Estimated rainforest (km ²)	Total expenditure to 31 March 1990 (\$)	Proposed expenditure, 1 July to 30 September 1990 (\$)
103/87	West Coast Range	25	6	556,151	80,000
106/87	Lake Mackintosh	95	65	1,256,214	160,000
6/88	Mt Holloway	133	6	31,450	10,000
8/88	Lorinna	55	3	262,174	15,250
12/88	Rosebery	20	14	298,675	25,000
13/88	Williamsford	29	17	328,697	with 101/87
14/88	Maydena	81	1	127,447	8,000
16/88	Highwood Hill	22	13	23,276	-
19/88	Montagu River	70	35	41,980	-
22/88	Newdegate Creek	44	25	13,064	-
24/88	Champion Road	2	2	6,500	12,000
28/88	Mt Zeehan	129	26	48,394	-
29/88	Lake Murchison	17	12	260,000	35,000
44/88	Burns Peak	63	25	662,788	240,000
53/88	Mt Frankland	125	5	36,913	-
58/88	Golden Ridge	189	20	41,690	86,000
10/89	Mt Saddleback	77	30	11,497	12,000
14/89	Corinna	42	32	47,924	2,280
28/89	Little Donaldson R.	6	6	900	1,250
37/89	Bulgobac Hill	32	19	76,280	100,000
40/89	Keith River	250	212	17,166	2,000
41/89	Mt Bertha	249	100	8,506	2,000
42/89	Rapid River	231	127	18,612	5,000
43/89	Holder Rivulet	233	70	25,103	3,000
44/89	Wedge Plains	250	113	26,153	3,000
45/89	Savage River	239	179	9,812	2,000
46/89	Julius River	94	75	16,044	1,000
52/89	Balfour	177	106	9,293	3,000
53/89	Mt Victoria	58	3	5,000	1,000
55/89	Mt Darwin	78	6	-	122,000
57/89	Cann Creek	1	1	Just issued	-
1/90	Meunna	11	10	with 43/89	-
2/90	Que River	55	10	300	45,000

EL Number	Location	Area (km ²)	Estimated rainforest (km ²)	Total expenditure to 31 March 1990 (\$)	Proposed expenditure, 1 July to 30 September 1990 (\$)
3/90	Talawa	59	30	-	10,000
8/90	The Pinnacles	4	1.5	300	5,000
12/90	Mt Ramsay	77	62	Pending	104,000
15/90	Waratah	183	128	Pending	with 12/90
18/90	Temma	250	0	-	15,250
20/90	Mt Agnew	6	1	Pending	-
21/90	Luina	53	50	Pending	4,000
22/90	Tullah	27	2	Pending	2,000
RL Number					
8717	B.A. Creek	5	4	553,751	10,000
8718	Farquhars Bridge	5	3.5	with 8717	-
8802	Bowry Creek	10	10	3,000,834	108,000
8807	Mt Bischoff	4	0.6	3,577,229	-
Total Licences		Total area (km ²)	Total Rainforest (km ²)	Total Expenditure (\$)	Total Expenditure (\$)
78		5970	2291.1	23,664,422	1,813,130

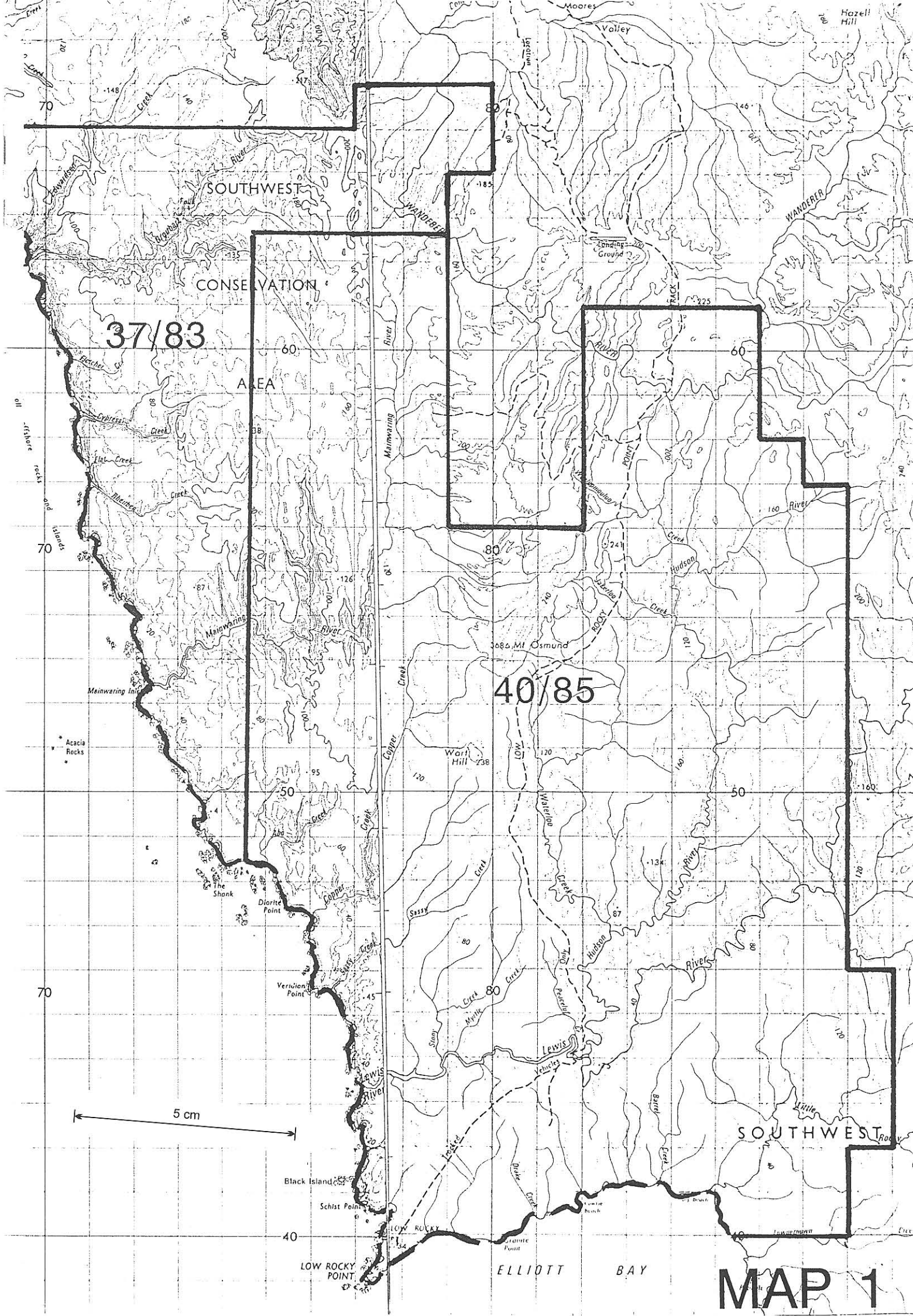
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MAP 1



MAP 1



37/83

40/85

MAP 1

EXPLORATION LICENCE NO.	40/85
LOCATION	Mt Osmund
TENEMENT HOLDER	Cyprus Gold Australia Corp.
OPERATOR	Arimco NL
TOTAL AREA (km ²)	250
AREA OF RAINFOREST (km ²)	± 25
TOTAL EXPENDITURE TO DATE	\$1,785,080

PROGRAM 01.07.90 to 30.09.90
 Finalising joint venture negotiation with Aberfoyle
 Resources.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$1,000

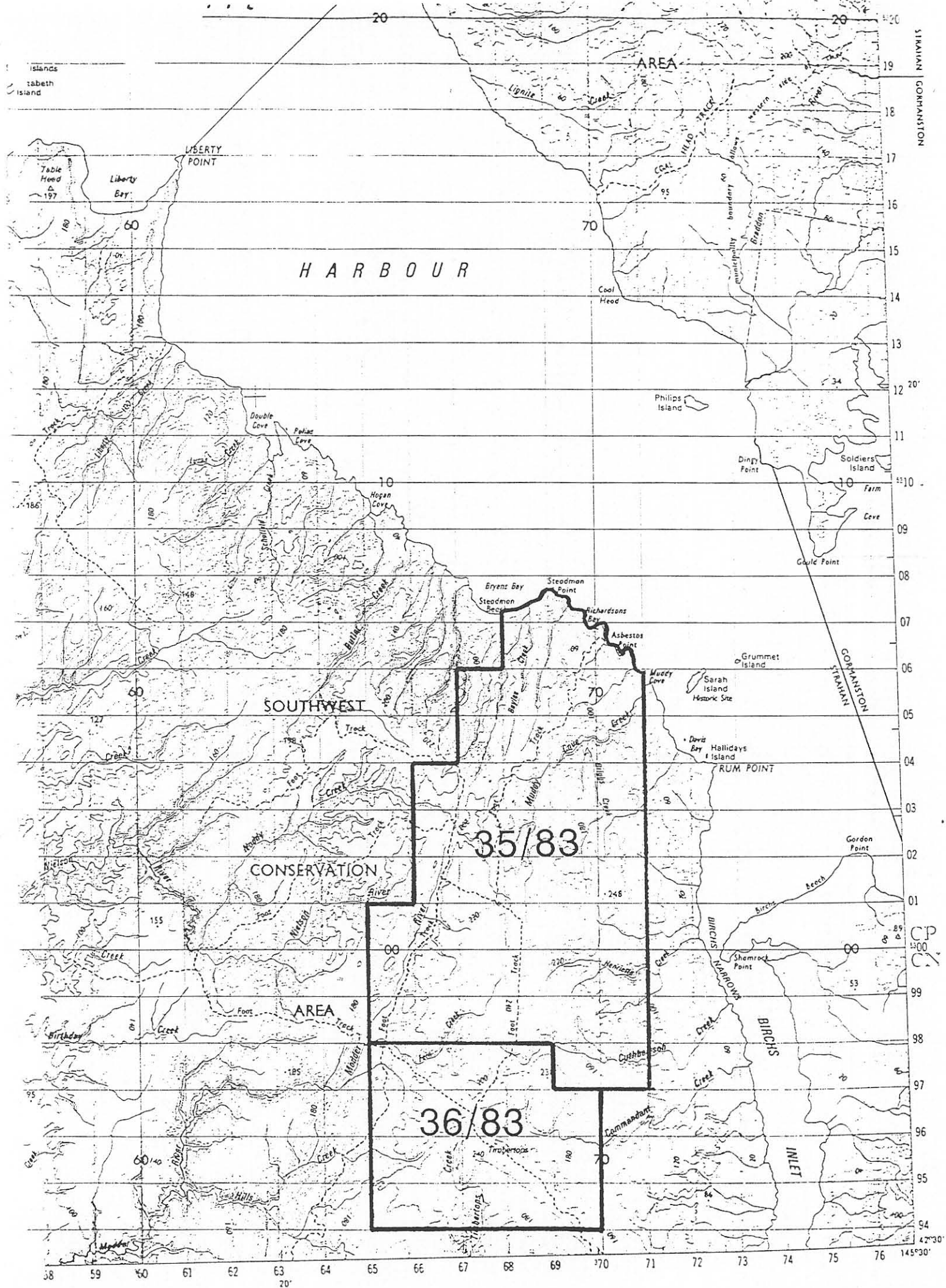
COMMENT

Within South West Conservtion Area. Exploration program is
 approved by Interdepartmental Working Group.

MAP 2

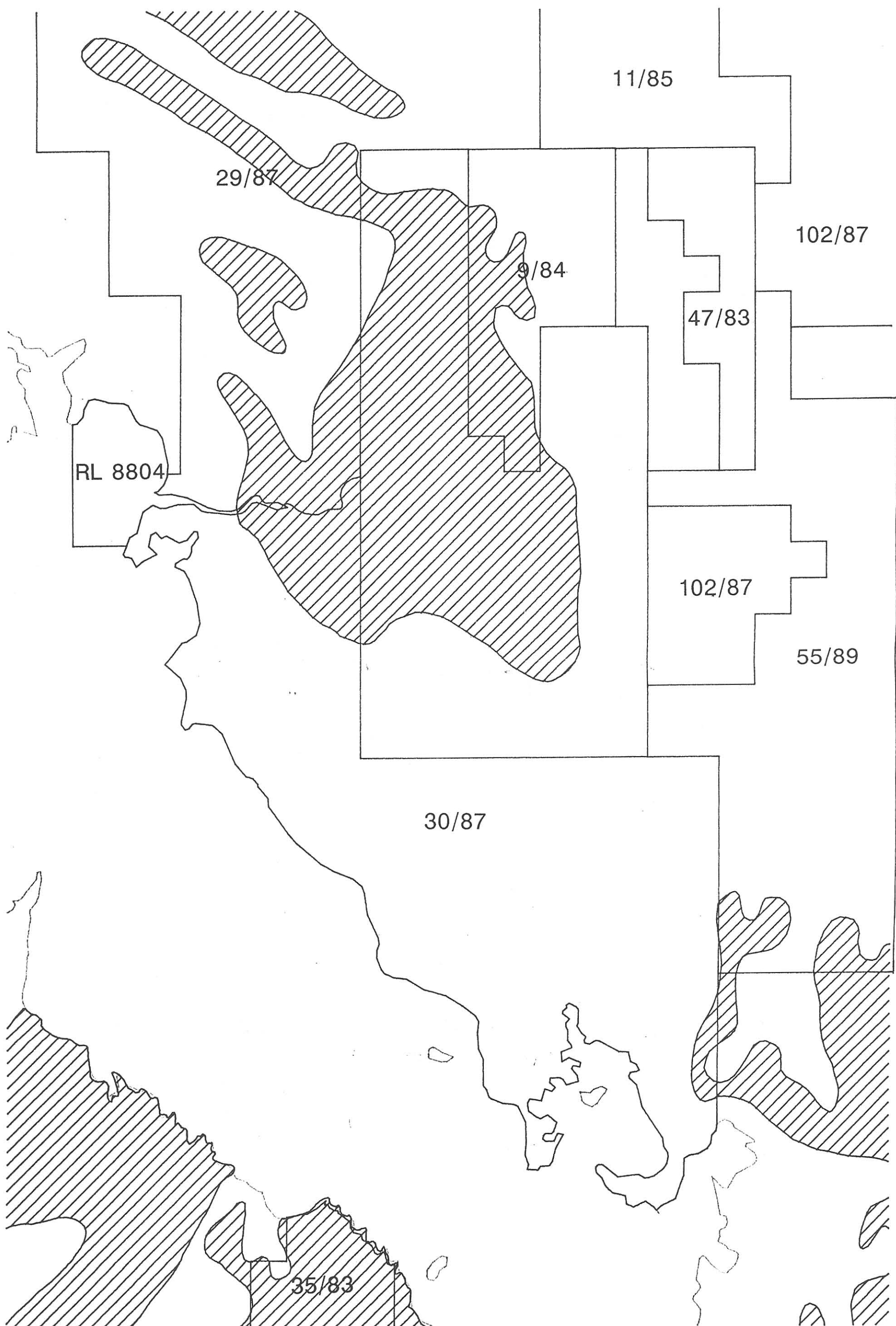


MAP 2

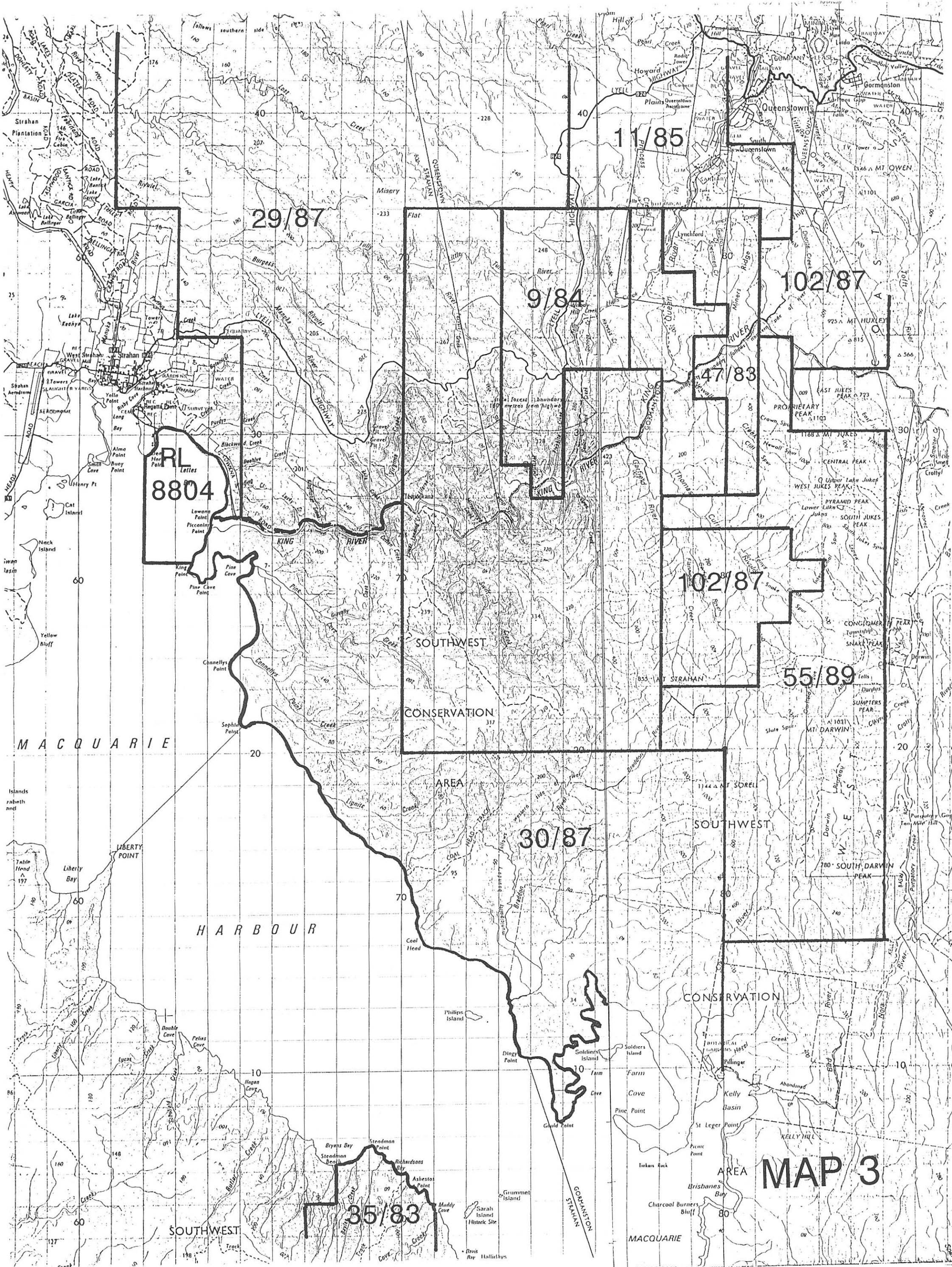


MAP 2

MAP 3



MAP 3



5 cm

EXPLORATION LICENCE NO.	9/84
LOCATION	Woody Hill
TENEMENT HOLDER	Montroyal Mining NL
OPERATOR	Montroyal Mining NL
TOTAL AREA (km ²)	27
AREA OF RAINFOREST (km ²)	± 11
TOTAL EXPENDITURE TO DATE	\$242,846

PROGRAM 01.07.90 to 30.09.90
 Seeking a Joint Venture partner.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$1,000
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COMMENT

EXPLORATION LICENCE NO.	11/85
LOCATION	Yolande River
TENEMENT HOLDER	Cyprus Gold Australia Corp.
OPERATOR	Pasminco Mining
TOTAL AREA (km ²)	151
AREA OF RAINFOREST (km ²)	± 80
TOTAL EXPENDITURE TO DATE	\$345,842

PROGRAM 01.07.90 to 30.09.90

- a) Geophysical interpretation of recent aeromagnetic and ground I.P. surveys.
- b) Compilation and assessment of previous data for major base metal sulphide targets.
- c) Geological mapping of South Henty Fault-Newton Creek and South White Spur-Henty Gorge areas.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$35,000
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COMMENT

A significant part of the area proposed for mapping is covered by rainforest. However existing grids and old logging tracks provide access so impact on the rainforest will be minimal.

EXPLORATION LICENCE NO.	29/87
LOCATION	Strahan
TENEMENT HOLDER	New Holland Mining
OPERATOR	Joint Venture with BHP
TOTAL AREA (km ²)	150
AREA OF RAINFOREST (km ²)	50
TOTAL EXPENDITURE TO DATE	\$82,175

PROGRAM 01.07.90 to 30.09.90

 No programs available, subject to report evaluations.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	Unknown
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COMMENT

Not in National Estate

EXPLORATION LICENCE NO.	30/87
LOCATION	King River
TENEMENT HOLDER	New Holland Mining
OPERATOR	Joint Venture with BHP
TOTAL AREA (km ²)	127
AREA OF RAINFOREST (km ²)	13
TOTAL EXPENDITURE TO DATE	\$49,823

PROGRAM 01.07.90 to 30.09.90
No programs available, subject to report evaluations.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Unknown

COMMENT

This E.L. is wholly within the Southwest Conservation area and is under the control of the Interdepartmental Working Group.

EXPLORATION LICENCE NO.	102/87
LOCATION	Moxons Saddle (Area 1) Queenstown (Area 2) Garfield River (Area 3)
TENEMENT HOLDER	BHP Minerals Ltd
OPERATOR	BHP Minerals Ltd
TOTAL AREA (km ²)	99
AREA OF RAINFOREST (km ²)	± 1 in Area 2, Queenstown
TOTAL EXPENDITURE TO DATE	\$1,253,108

PROGRAM 01.07.90 to 30.09.90

No proposed programs for areas 1 and 2, i.e. Moxons Saddle and Queenstown.

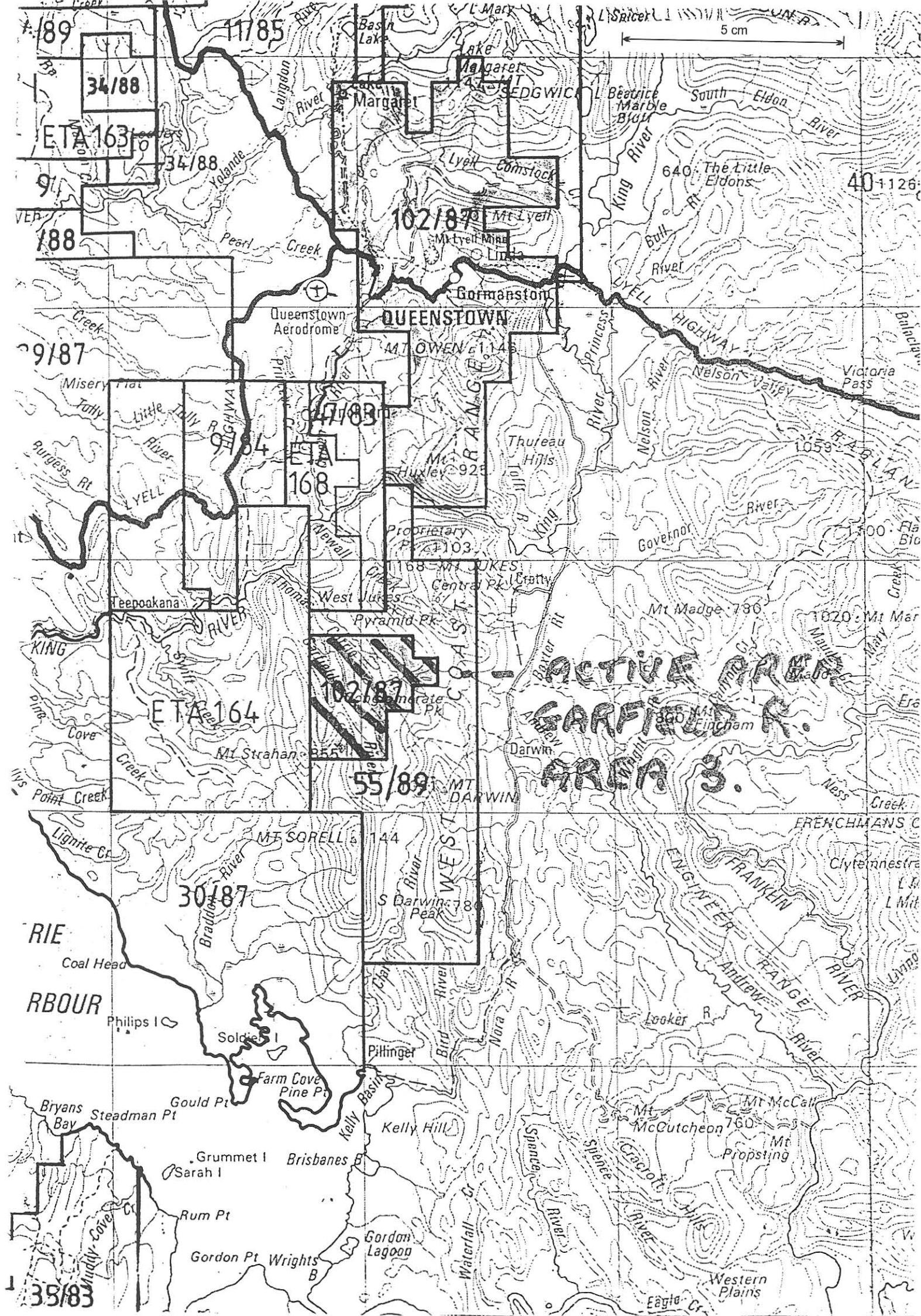
Program in area 3, Garfield River, is to be run in conjunction with EL 55/89, Mt Darwin. This will include continuation of previous years grid cutting and geophysics program. Geophysics will be totally helicopter supported and requires the laying of wires, along grid lines, through which an electric current is passed to induce a magnetic field. An intensive program of soil sampling will also be carried out. Two semi-permanent camps will be used for field staff.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$182,000
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COMMENT

All three areas contain or are within the SWCA and therefore require approvals from the Interdepartmental Working Group. Area 3, Garfield River, which contains no rainforest will be the only area investigated for the next three months.

All exploration is of minimal impact.



EXPLORATION LICENCE NO.	55/89
LOCATION	Mt Darwin
TENEMENT HOLDER	BHP Minerals Ltd
OPERATOR	BHP Minerals Ltd
TOTAL AREA (km ²)	78
AREA OF RAINFOREST (km ²)	6
TOTAL EXPENDITURE TO DATE	Nil ?

PROGRAM 01.07.90 to 30.09.90

Program to comprise intensive gridline cutting with associated semi permanent camps. The program will be totally helicopter supported. Rock chip sampling and mapping will also be undertaken along with a geochemistry (soil sampling program).

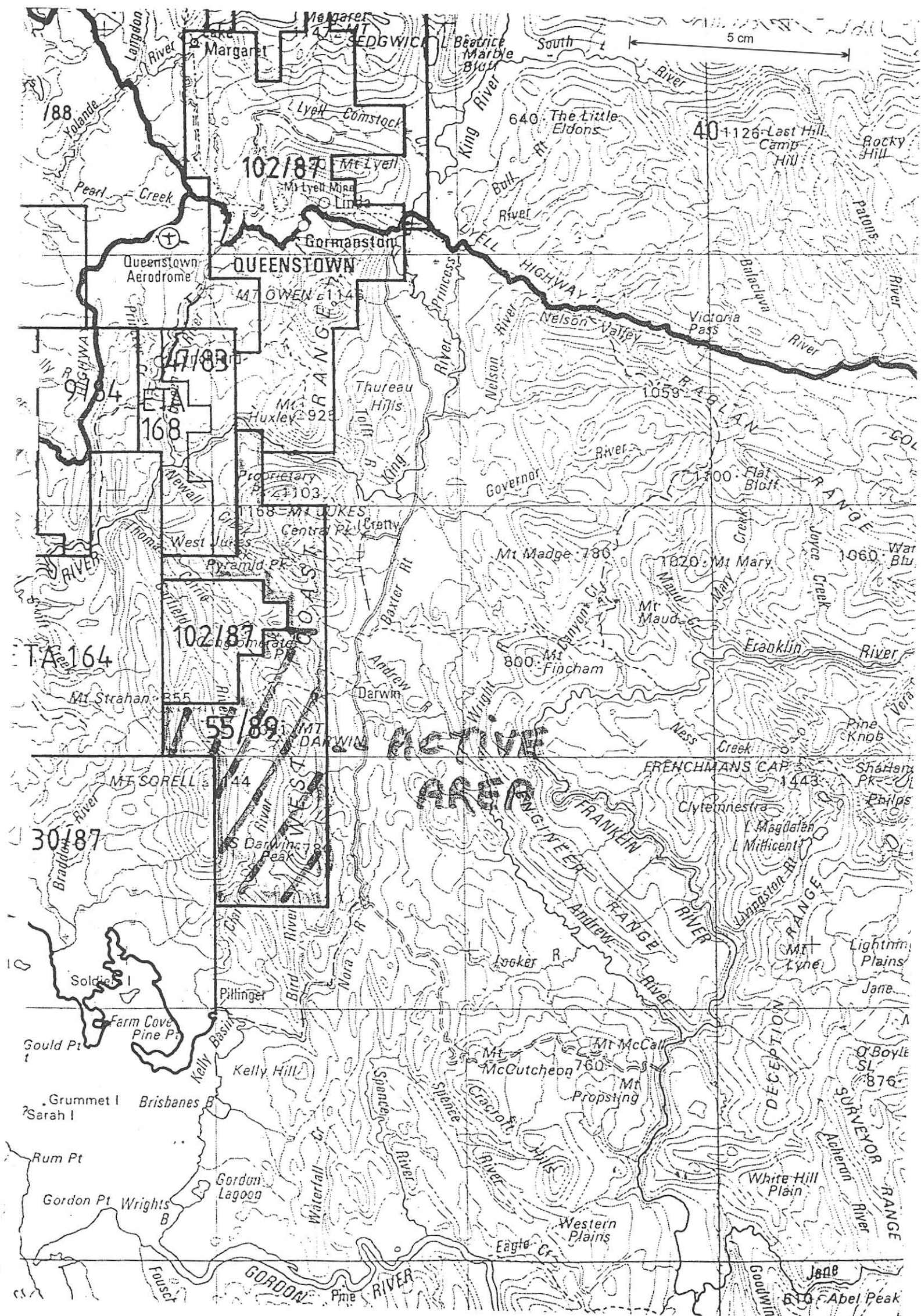
PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$122,000
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COMMENT

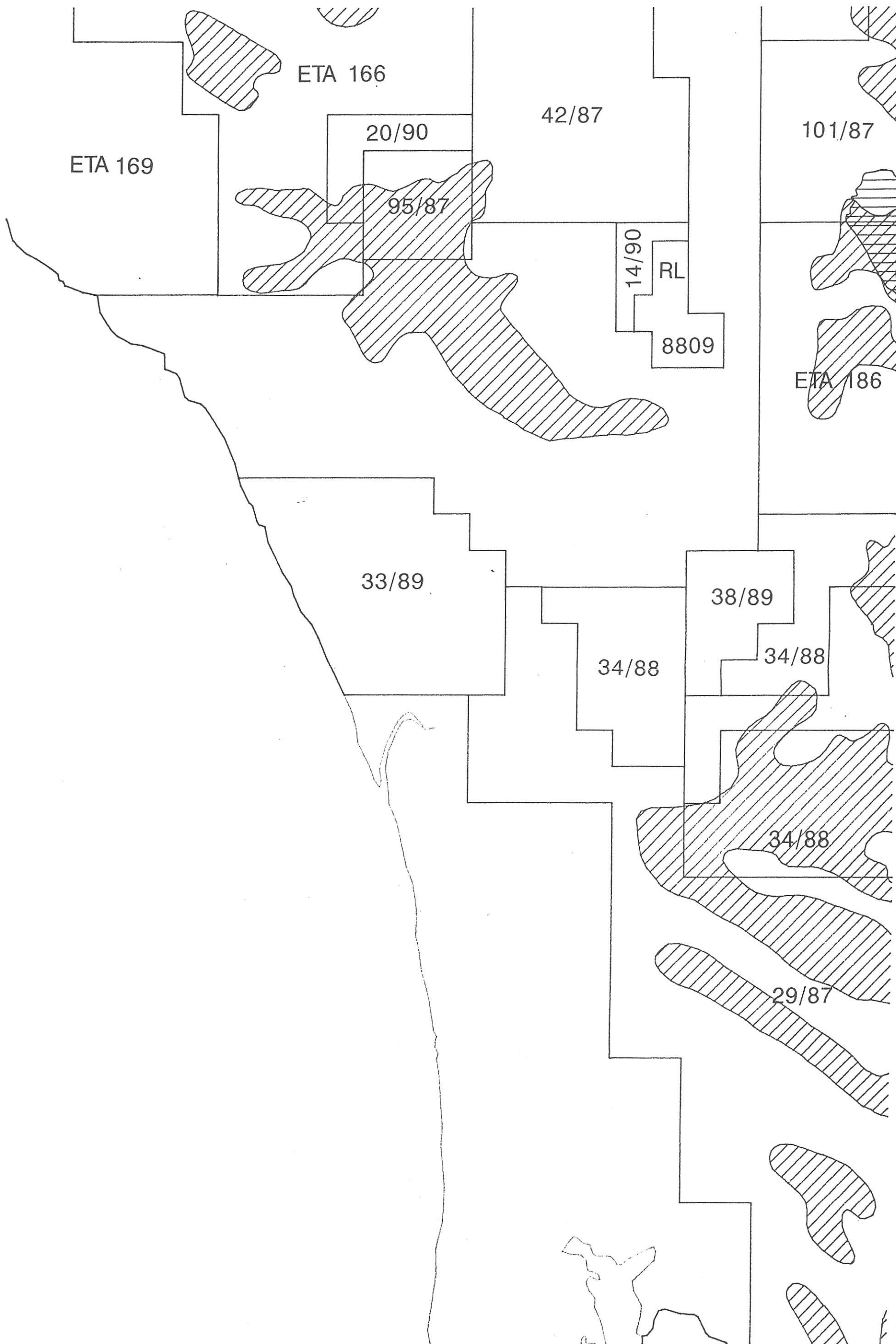
All approvals for programs are given by the Interdepartmental Working Group. The entire licence is in the SWCA.

No earthworks are proposed for this EL, only existing access will be used.

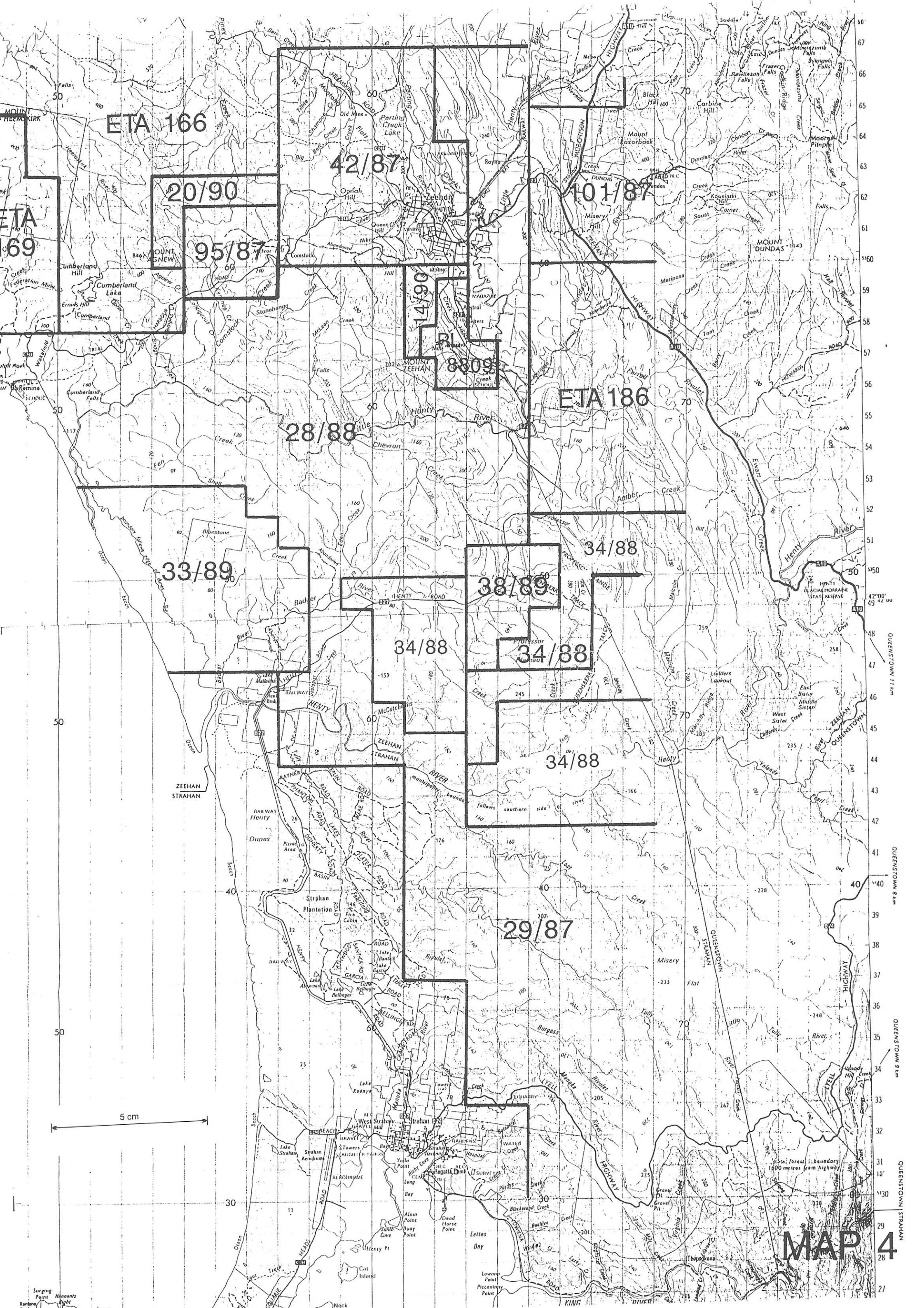
Exploration techniques are minimal impact.



MAP 4



MAP 4



ETA 166

42/87

20/90

401/87

95/87

14/90

8809

ETA 186

28/88

33/89

34/88

38/89

34/88

34/88

34/88

29/87

MAP 4

EXPLORATION LICENCE NO.	95/87
LOCATION	Zeehan
TENEMENT HOLDER	Savage Resources Ltd
OPERATOR	Savage Resources Ltd
TOTAL AREA (km ²)	9
AREA OF RAINFOREST (km ²)	7 approx.
TOTAL EXPENDITURE TO DATE	\$13,473

PROGRAM 01.07.90 to 30.09.90
 No field activities planned during the quarter.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

COMMENT

Land status: Mainly non-allocated Crown Land, some State Forest.
 Main target area is not on rainforest.

EXPLORATION LICENCE NO.	101/87
LOCATION	Dundas
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	64
AREA OF RAINFOREST (km ²)	38
TOTAL EXPENDITURE TO DATE	\$422,854

PROGRAM 01.07.90 to 30.09.90
 Reconnaissance mapping and rock sampling

Follow up aeromagnetic survey.

Stream sediment (-200 mesh) survey.

Some of this work will be in rainforest but will have minimal impact.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$36,000
(Combined with EL 13/88)	

COMMENT

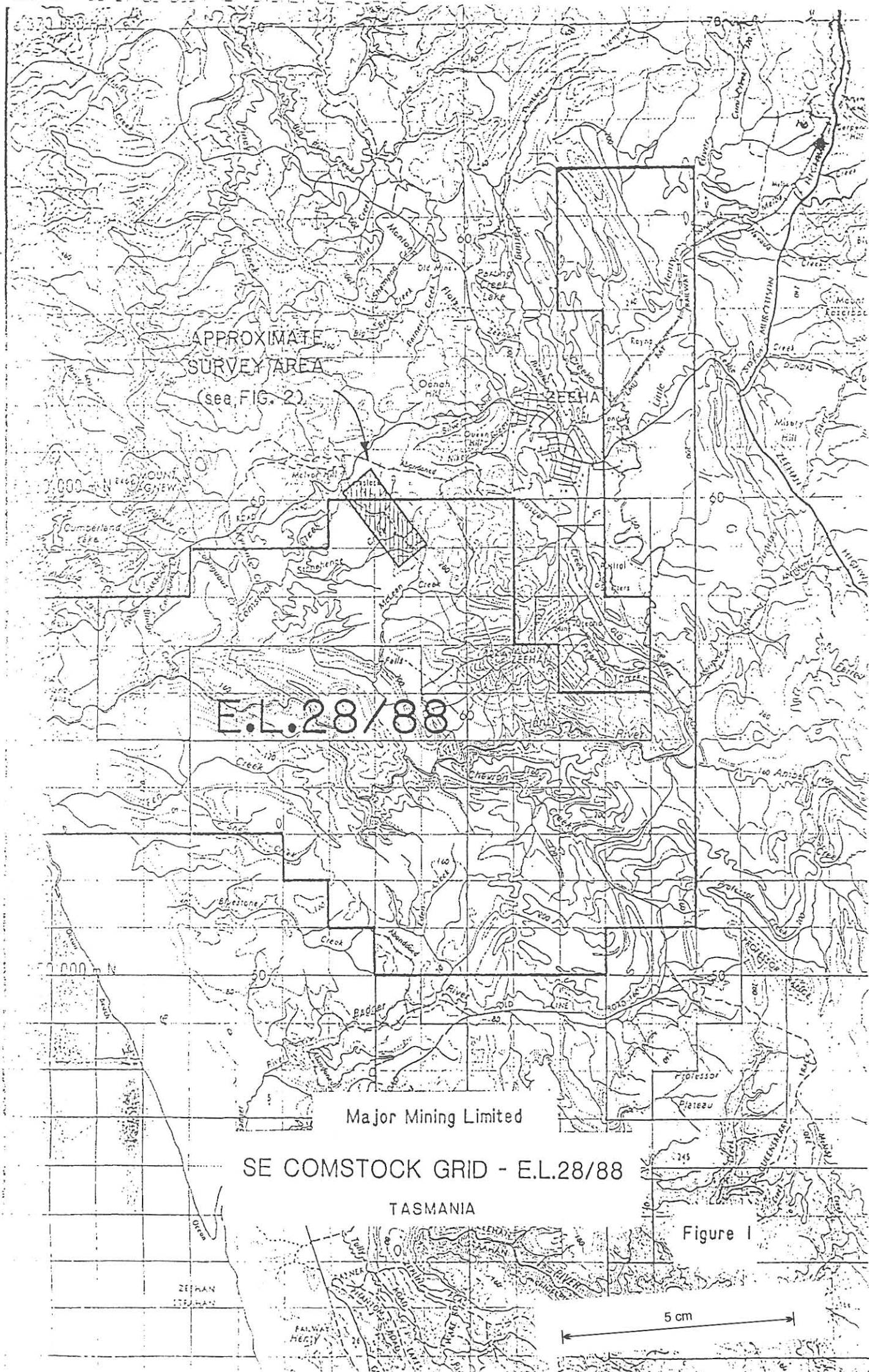
Work in rainforest is to be carried out under established guidelines.

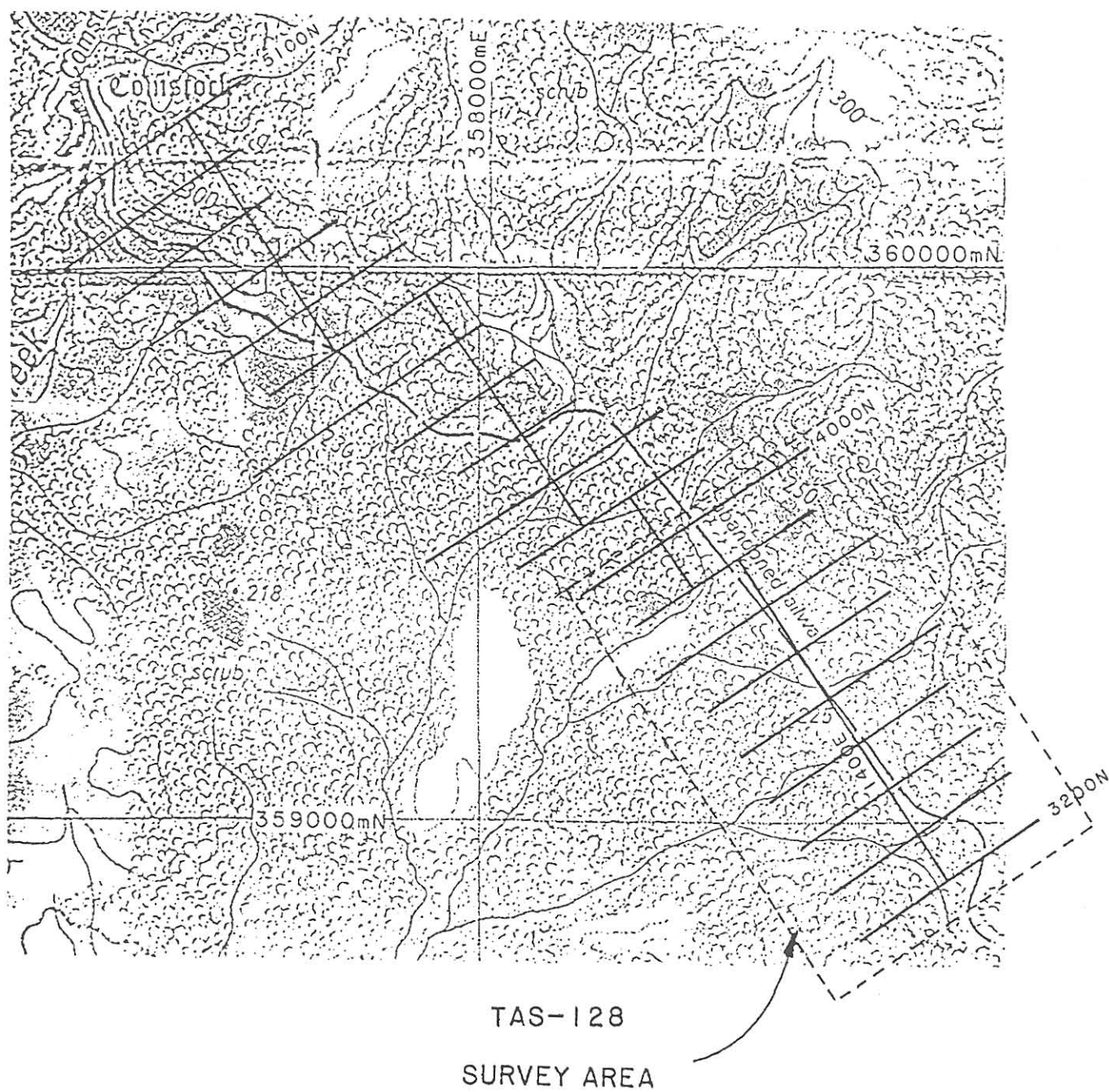
EXPLORATION LICENCE NO.	28/88
LOCATION	Mt Zeehan
TENEMENT HOLDER	Major Mining
OPERATOR	Major Mining
TOTAL AREA (km ²)	129
AREA OF RAINFOREST (km ²)	26
TOTAL EXPENDITURE TO DATE	\$48,394

PROGRAM 01.07.90 to 30.09.90
 No work this quarter.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90
 Administrative costs only.

COMMENT





Major Mining Limited
SE COMSTOCK AREA - E.L.28/88
TASMANIA

Figure 2

EXPLORATION LICENCE NO.	20/90
LOCATION	Mt Agnew
TENEMENT HOLDER	Savage Resources Ltd
OPERATOR	Savage Resources Ltd
TOTAL AREA (km ²)	6
AREA OF RAINFOREST (km ²)	1
TOTAL EXPENDITURE TO DATE	Nil, Application pending.

PROGRAM 01.07.90 to 30.09.90

 No field activities planned as licence not yet issued.

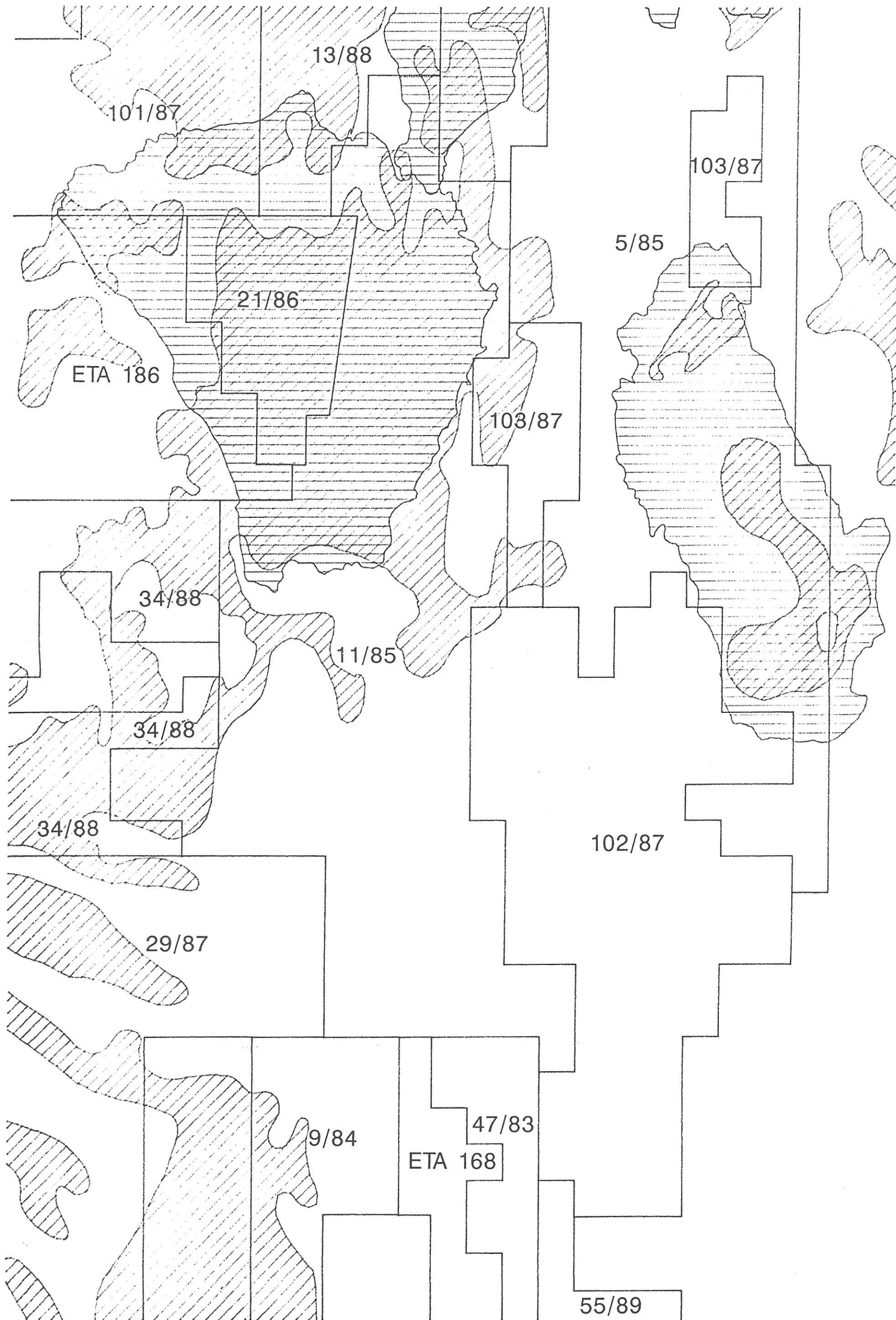
PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

COMMENT

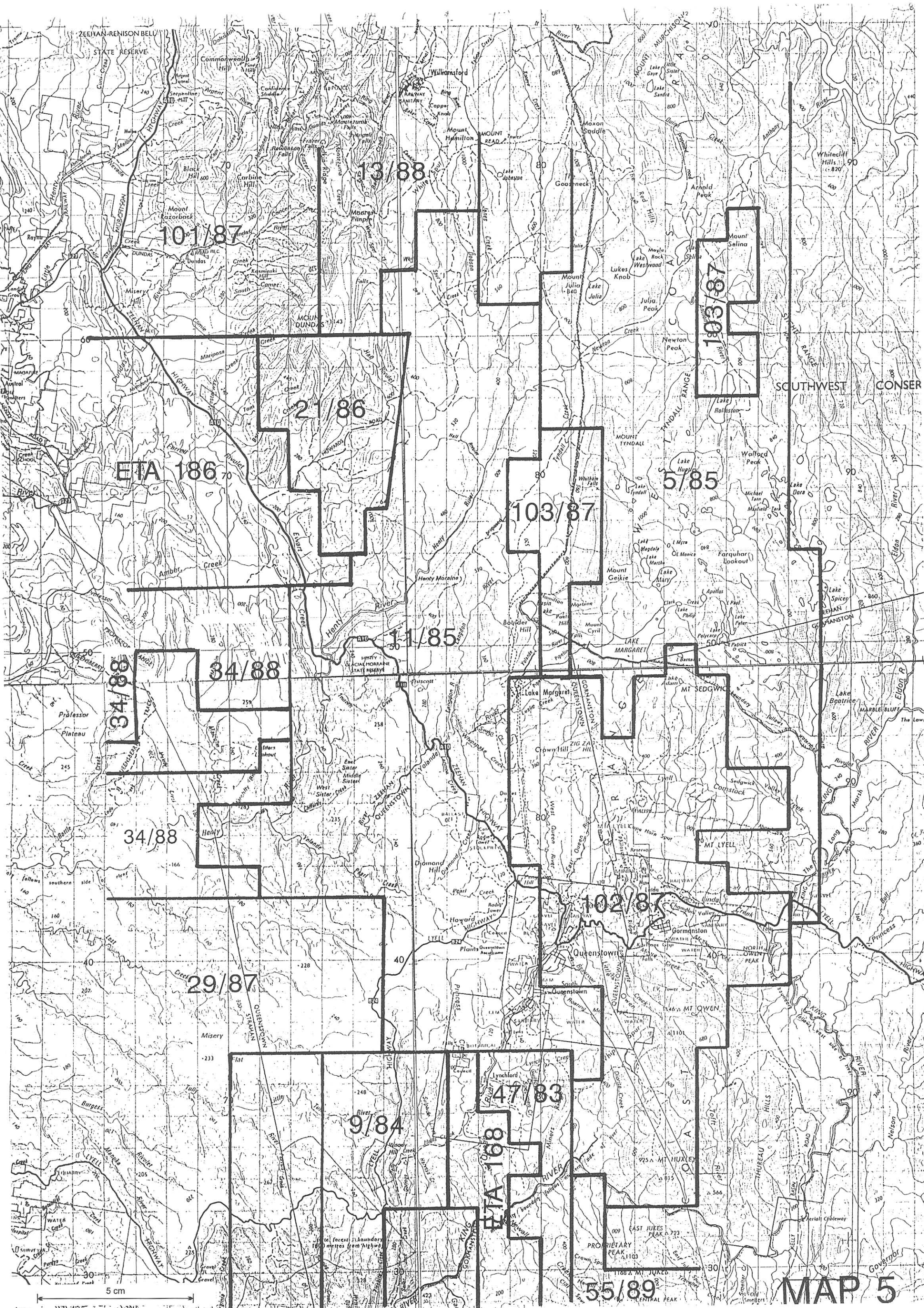
Land status: non-allocated Crown Land.

Main target area is not rain forest.

MAP 5



MAP 5



ETA 186

34/88

34/88

34/88

29/87

9/84

47/83

ETA 168

102/87

55/89

MAP 5

EXPLORATION LICENCE NO.	5/85
LOCATION	Lake Margaret
TENEMENT HOLDER	CRA Exploration Pty Ltd
OPERATOR	Aberfoyle Exploration Ltd
TOTAL AREA (km ²)	140
AREA OF RAINFOREST (km ²)	± 35
TOTAL EXPENDITURE TO DATE	\$1,096,227

PROGRAM 01.07.90 to 30.09.90

Aberfoyle propose to continue mapping, rock chip sampling, data review, including compilation of an annual report with a partial relinquishment report.

Down hole electro magnetic surveys are proposed for existing completed drill holes.

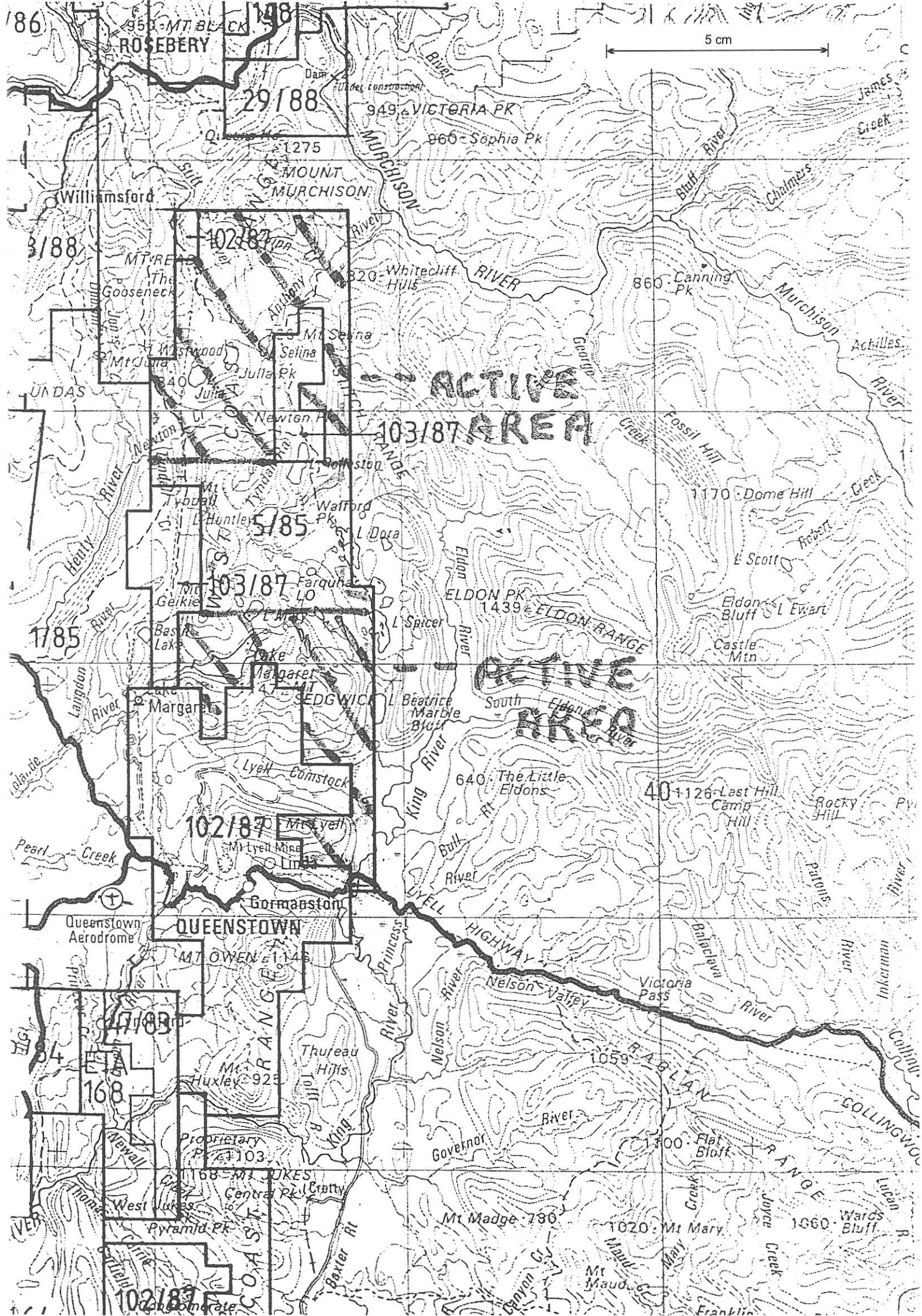
PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$40,000
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COMMENT

Access is via walking tracks and existing 4WD tracks.

Exploration technique is low impact.

All programs are subject to the approval of the Interdepartmental Working Group.



EXPLORATION LICENCE NO.	21/86
LOCATION	Mt Dundas
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	23
AREA OF RAINFOREST (km ²)	21
TOTAL EXPENDITURE TO DATE	\$101,188

PROGRAM 01.07.90 to 30.09.90

A. Collation and evaluation of existing data.

B. Helipad preparation and construction.

Item B requires access to rainforest and will involve some clearing of vegetation.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$11,000
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COMMENT

Work in rainforest is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	103/87
LOCATION	West Coast Range
TENEMENT HOLDER	The Shell Company of Australia Ltd
OPERATOR	The Shell Company of Australia Ltd
TOTAL AREA (km ²)	25
AREA OF RAINFOREST (km ²)	~ 6
TOTAL EXPENDITURE TO DATE	\$556,151 (to 31.03.90)

PROGRAM 01.07.90 to 30.09.90

Diamond drilling (2 holes). Access will be both by helicopter support and by ground. See attached map for area of drilling.

Environmental Precautions:

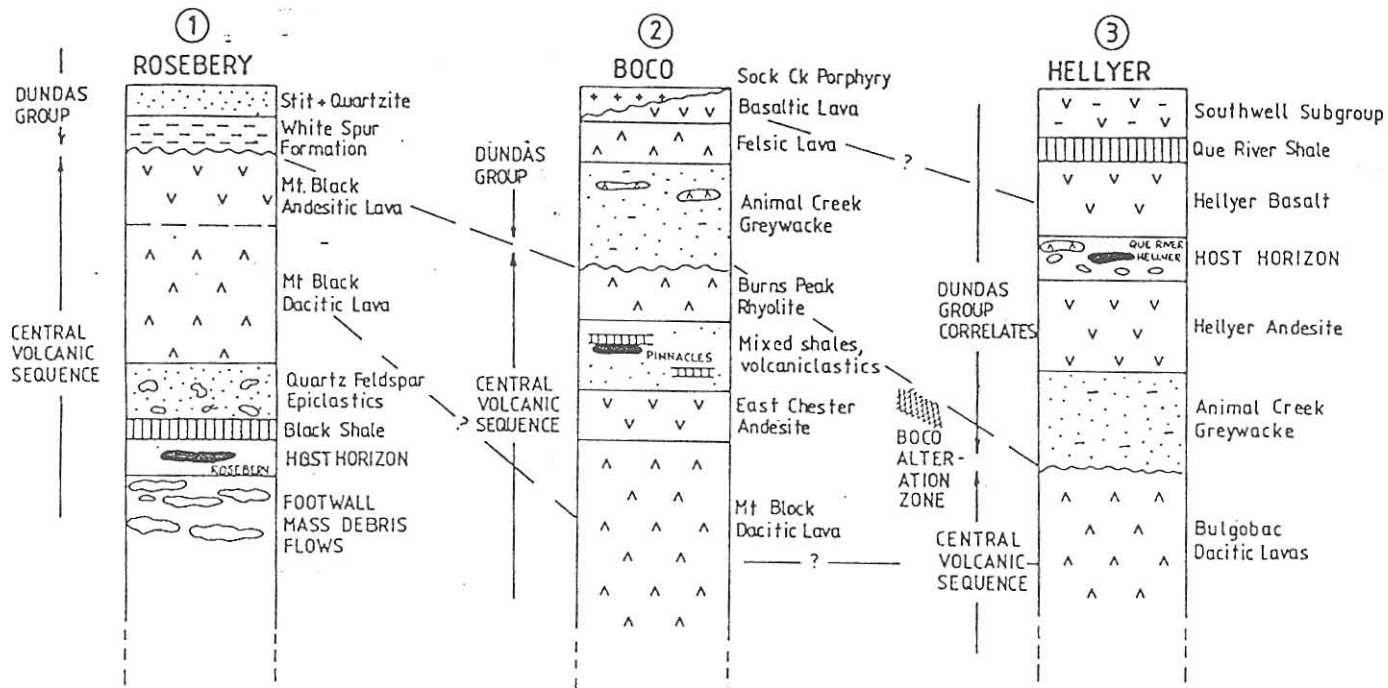
Skid mounted rigs will be towed to the relevant drill sites using an excavator on established tracks. Where no track exists the rig will be dragged across the button grass or minor clearing of rocks may be required. Through wooded areas a narrow track may be required but any large trees will be left untouched. The tracks will be completely rehabilitated after completion of the program. All rubbish will be removed and drilling effluent will be contained within sumps at the drill site. Fertiliser and, if necessary, seeds of native flora will be spread to encourage regrowth.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$80,000
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COMMENT

The area has been listed in the National Estate. Therefore, any exploration program will be subject to approval by the Interdepartmental Working Group.

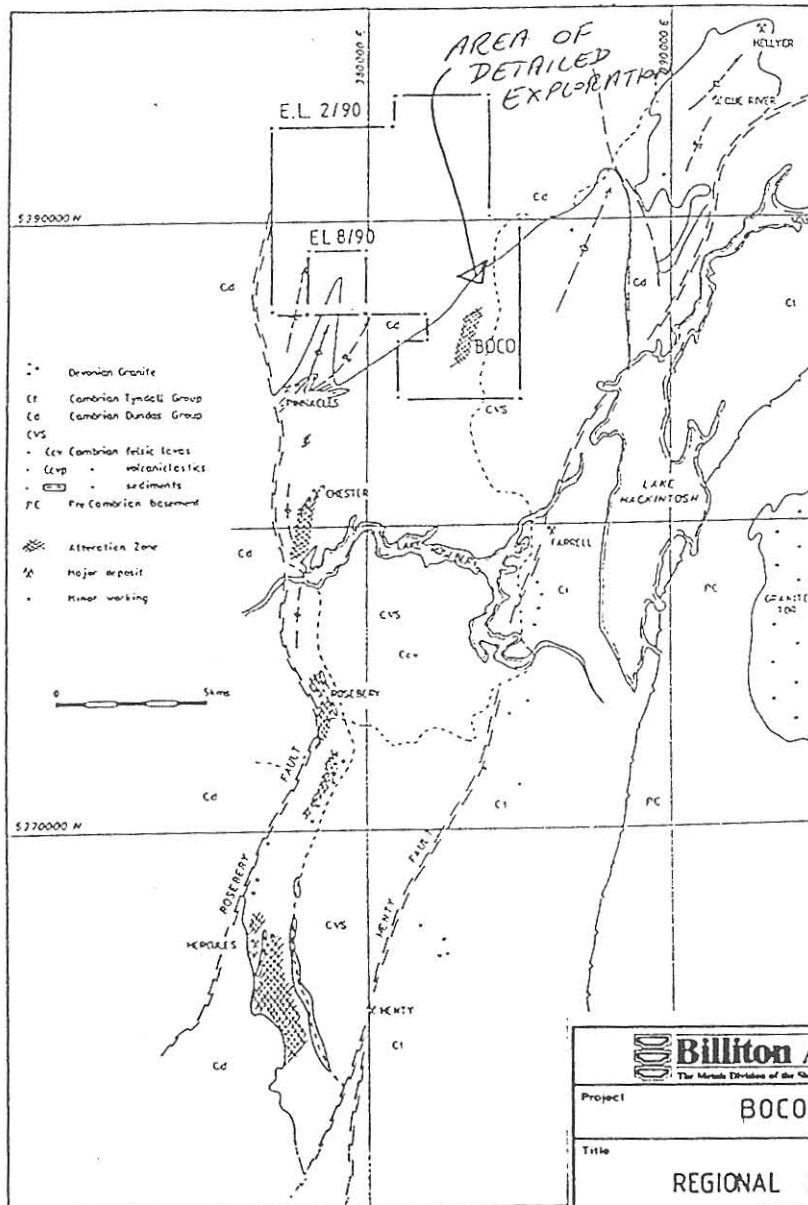
STRATIGRAPHIC COLUMNS (After Corbett 1990)



STRATIGRAPHIC COLUMN ③ →

STRATIGRAPHIC COLUMN ② →

STRATIGRAPHIC COLUMN ① →



Billiton Australia
The Mineral Division of the Shell Company of Australia Limited

Project **BOCO**

Title
**REGIONAL SETTING
AND
STRATIGRAPHIC CORRELATIONS**

Author JPR Date 5/90 Scale 1:250000

Drawn OH Office TAS Revised Date

Drawing No. Fig. No.

5 cm

EXPLORATION LICENCE NO.	13/88
LOCATION	Williamsford
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	29.
AREA OF RAINFOREST (km ²)	27
TOTAL EXPENDITURE TO DATE	\$328,697

PROGRAM 01.07.90 to 30.09.90

Reconnaissance mapping and rock sampling.

Follow up aeromagnetic survey.

Stream sediment (-200 mesh) survey.

Some of this work will be in rainforest but will have minimal impact.

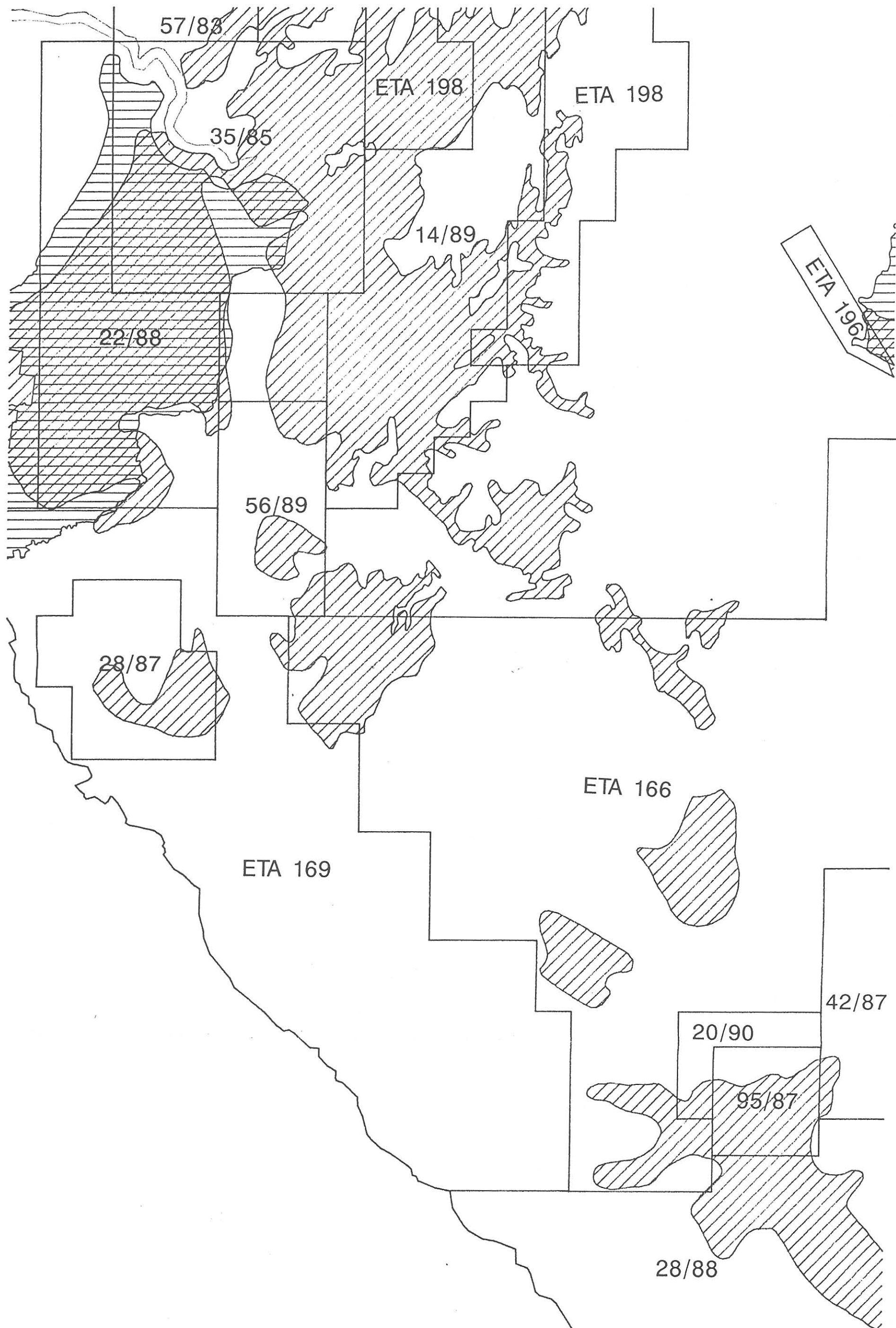
PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$36,000

(Combined with EL 101/87)

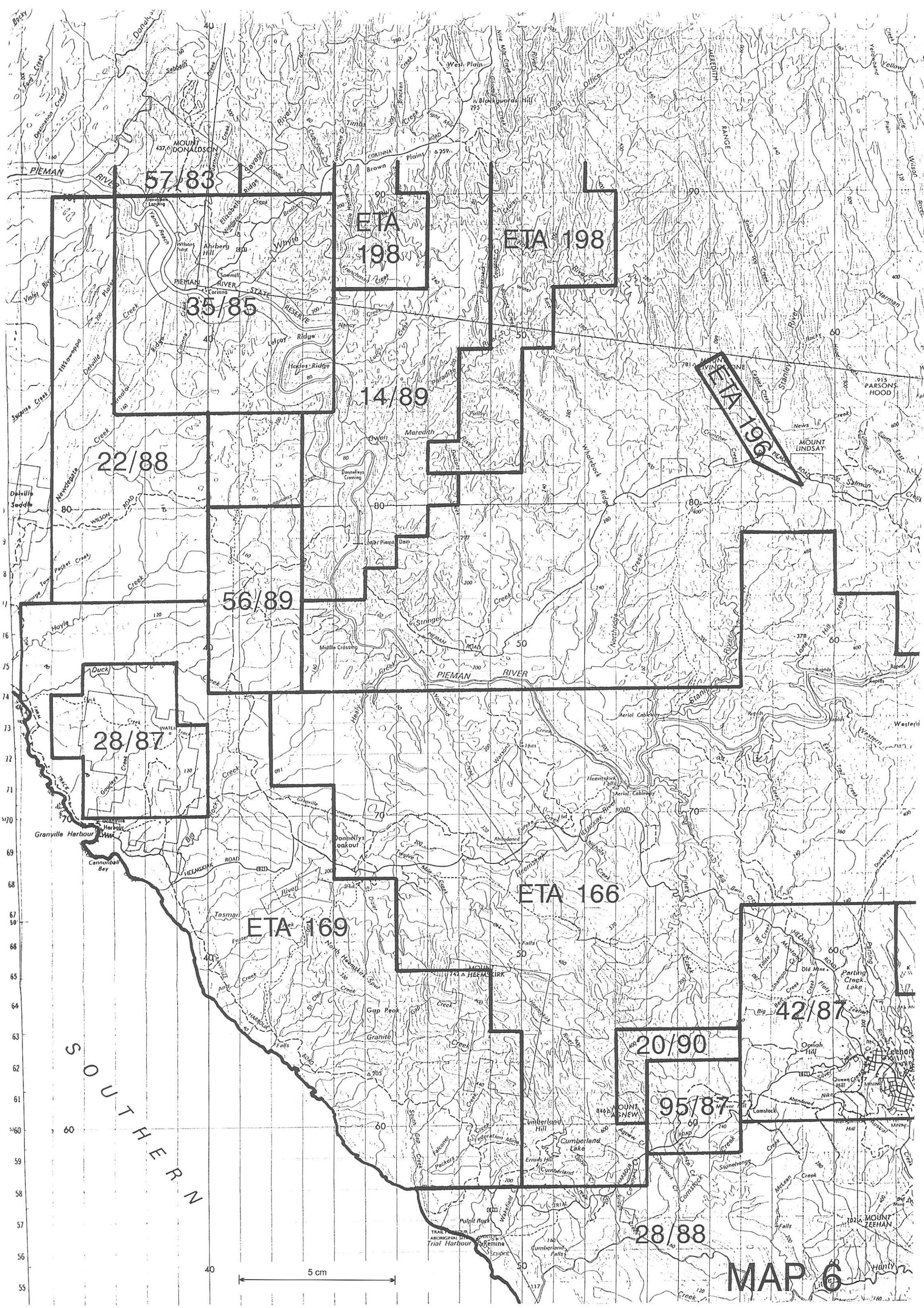
COMMENT

Work in rainforest is to be carried out under established guidelines.

MAP 6



MAP 6



EXPLORATION LICENCE NO.	35/85
LOCATION	Corinna
TENEMENT HOLDER	H.D. Nolan
OPERATOR	Aberfoyle
TOTAL AREA (km ²)	35
AREA OF RAINFOREST (km ²)	19
TOTAL EXPENDITURE TO DATE	\$89,285

PROGRAM 01.07.90 to 30.09.90
 No work during this quarter

PROPOSED EXPENDITURE 01.07.90 to 30.09.90
 Administrative costs only

COMMENT.

Approximately 30% of the EL lies within the Pieman River SR and is therefore unavailable for exploration.

EXPLORATION LICENCE NO.	28/87
LOCATION	Granville Harbour
TENEMENT HOLDER	New Holland Mining NL
OPERATOR	As above
TOTAL AREA (km ²)	20
AREA OF RAINFOREST (km ²)	6
TOTAL EXPENDITURE TO DATE	\$27,311

PROGRAM 01.07.90 to 30.09.90
 No exploration planned.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

COMMENT

 This E.L. comprises State Forest, Crown Land and Private
 Property.

EXPLORATION LICENCE NO.	22/88
LOCATION	Newdegate Creek
TENEMENT HOLDER	Aberfoyle Resources Ltd
OPERATOR	Aberfoyle Resources Ltd
TOTAL AREA (km ²)	44
AREA OF RAINFOREST (km ²)	± 25
TOTAL EXPENDITURE TO DATE	\$13,064

PROGRAM 01.07.90 to 30.09.90
 No work planned until summer.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90

COMMENT

EXPLORATION LICENCE NO.	14/89
LOCATION	Corinna
TENEMENT HOLDER	Outokumpu Exploration Aust. Pty Ltd
OPERATOR	As above
TOTAL AREA (km ²)	42
AREA OF RAINFOREST (km ²)	32
TOTAL EXPENDITURE TO DATE	\$47,924

PROGRAM 01.07.90 to 30.09.90

Current exploration in EL 14/89 will include:

1. Infill gridding, mapping and soil sampling of the Owen-Meridith Grid (cut Feb. 1990). This grid transects an area of rainforest in the south eastern portion of the E.L.;
2. Creek traverses; and
3. Ground magnetic survey.

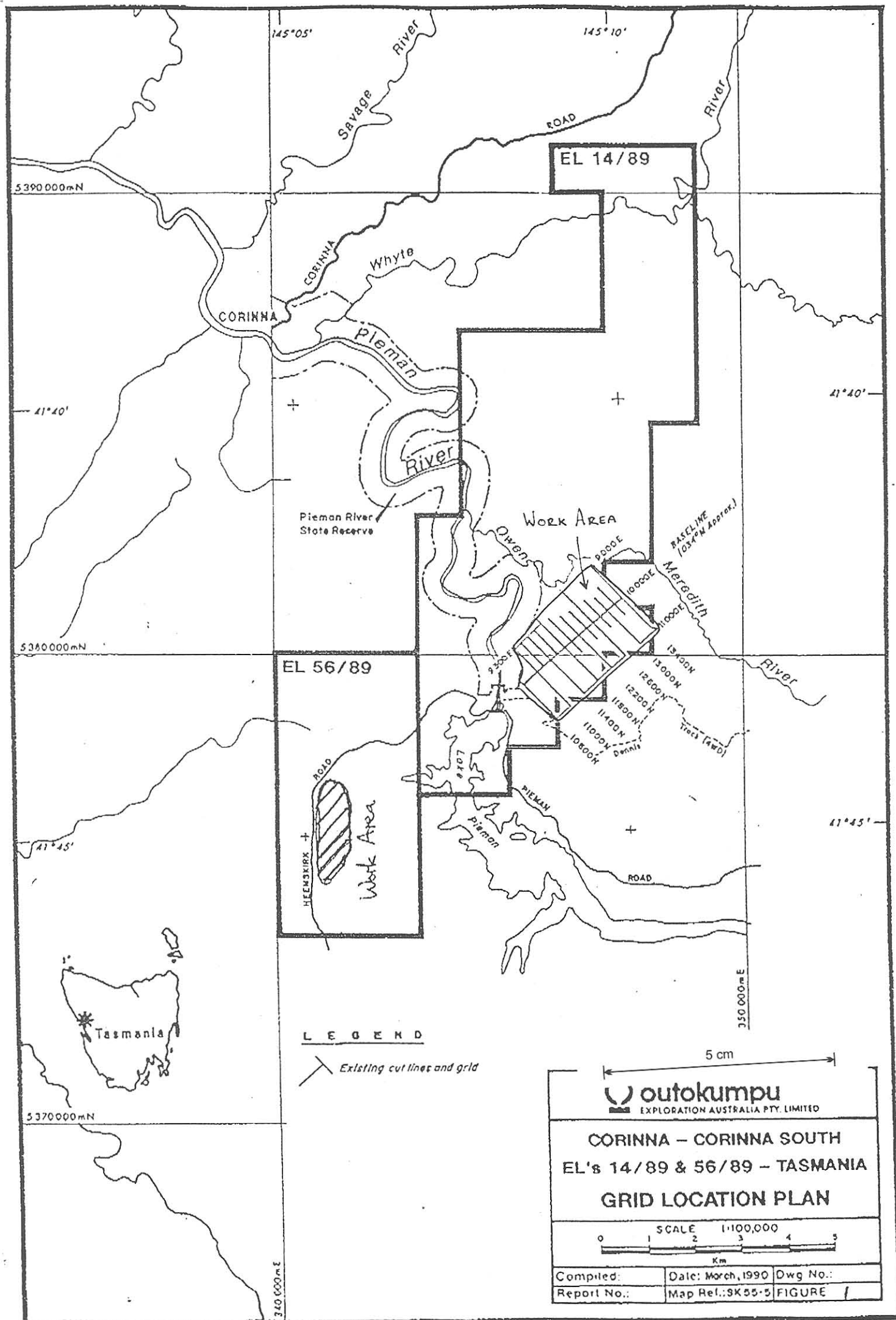
PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$3,800

(This value covers some non-rainforest areas. Work area this quarter is approximately 60% rainforest, therefore expenditure in rainforest \$2,280).

COMMENT

Land tenure: Crown Land and land vested in HEC.

Current EL renewal excludes Pieman River State Reserve. Distribution of rainforest within EL requires reclassification following bushfires.



EXPLORATION LICENCE NO.	56/89
LOCATION	Corinna South
TENEMENT HOLDER	Outokumpu Exploration Aust. Pty Ltd
OPERATOR	Outokumpu Exploration Aust. Pty Ltd
TOTAL AREA (km ²)	18
AREA OF RAINFOREST (km ²)	4
TOTAL EXPENDITURE TO DATE	Nil as at 25 June 1990

PROGRAM 01.07.90 to 30.09.90

Subject to evaluation of exploration undertaken in the first half of 1990 the following exploration program has been proposed. Geophysical surveys, notably ground magnetics and TEM, will be undertaken on pre-existing (?) grids. Sampling surveys will involve RAB or Wacker drilling in areas of poor outcrop.

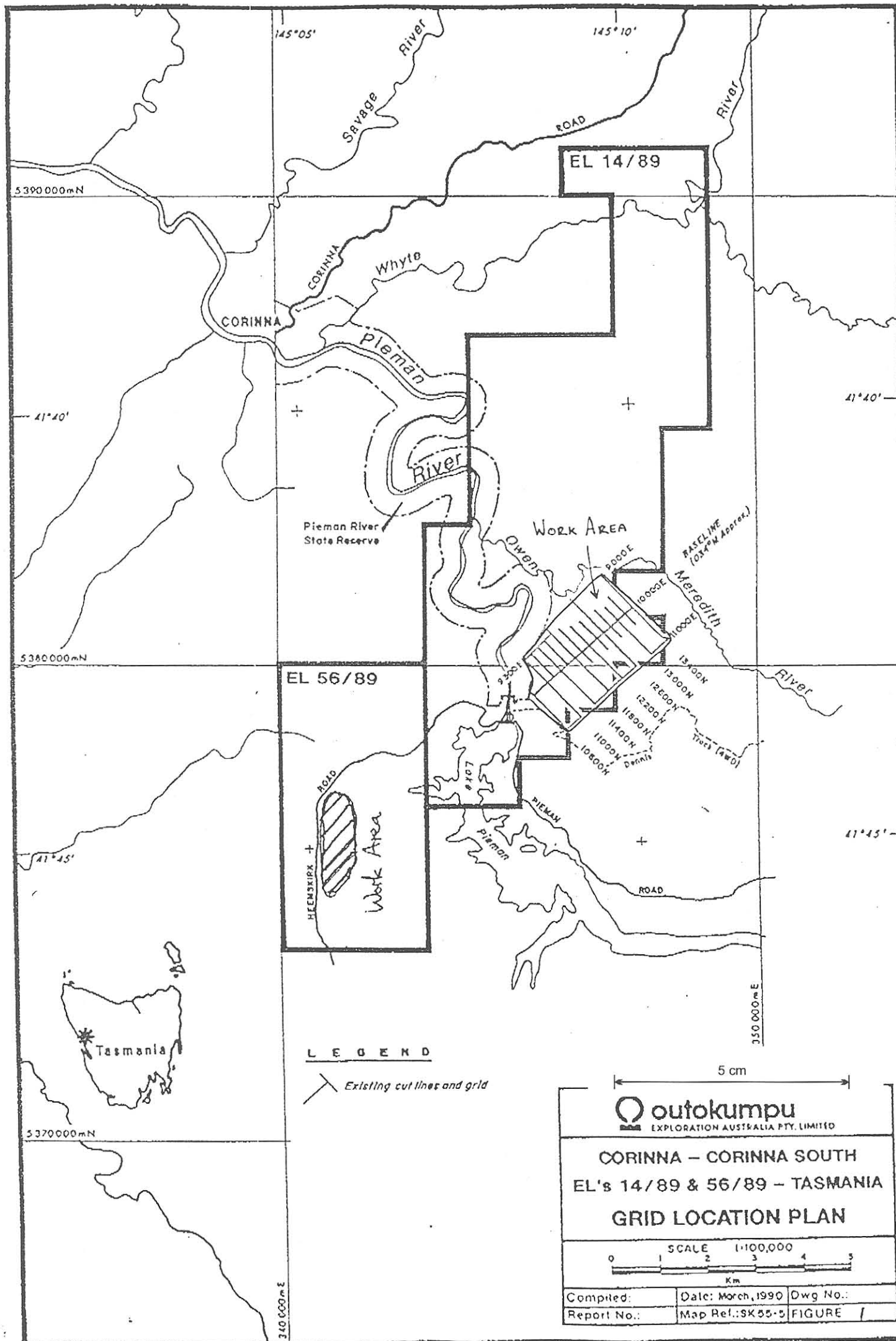
The current work area is wholly within an area of rainforest as identified by the Forestry Commission.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$5,400
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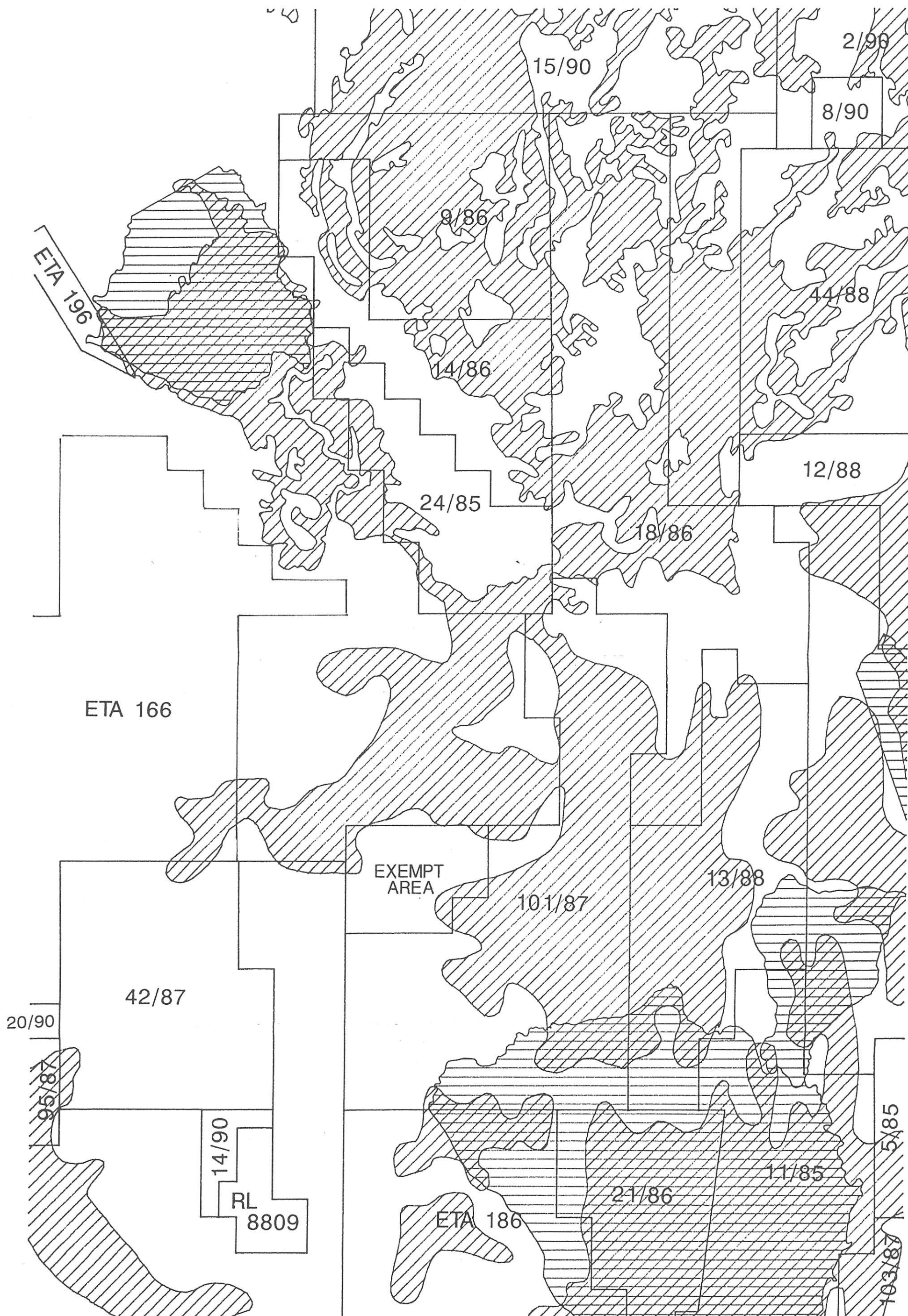
COMMENT

Current land status:- State Forest, Land Vested in HEC.

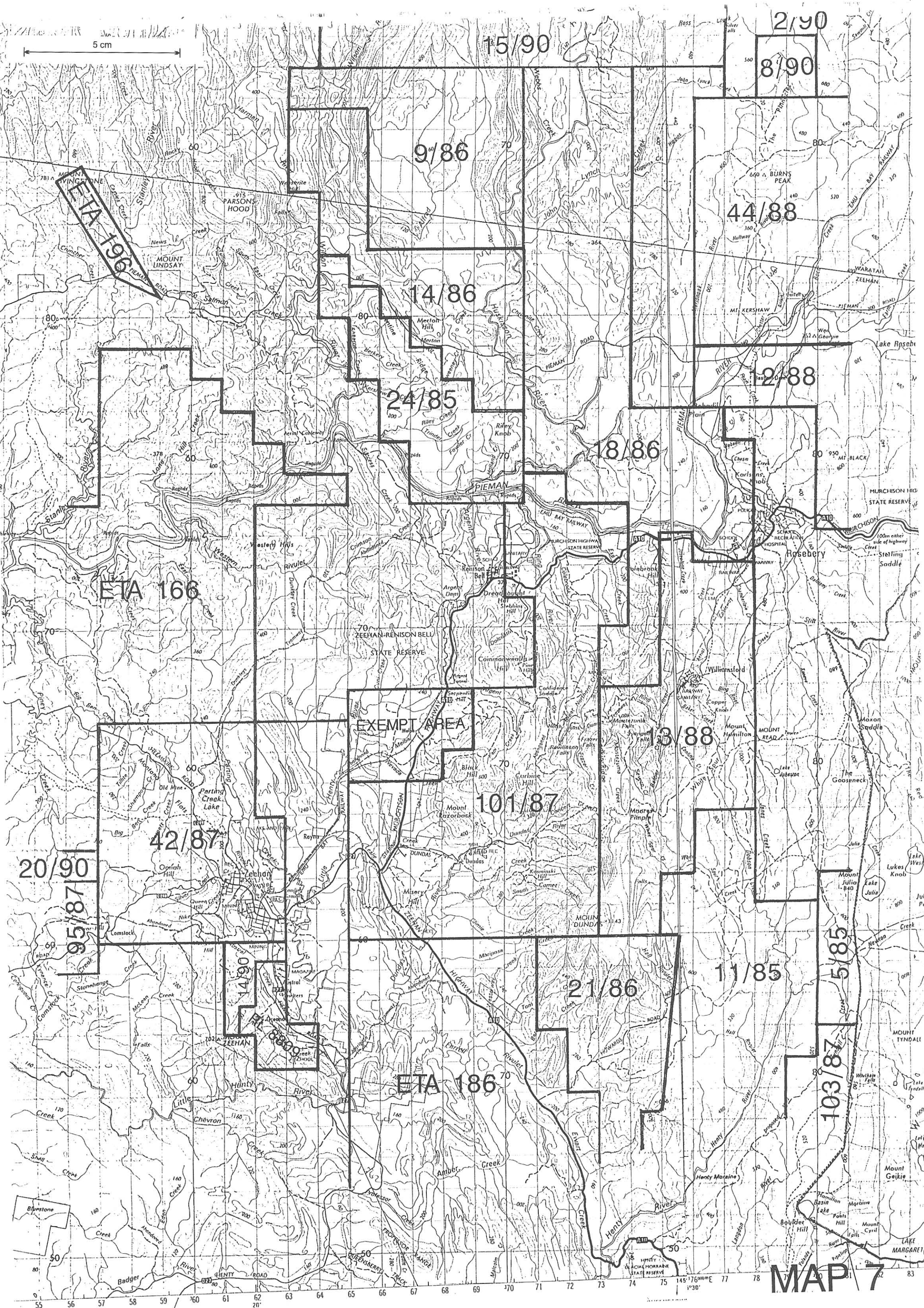
Distribution of rainforest within EL requires reclassification following bushfires.



MAP 7



MAP 7



EXPLORATION LICENCE NO.	24/85
LOCATION	Riley Knob
TENEMENT HOLDER	M.G. Creasy
OPERATOR	Callina NL
TOTAL AREA (km ²)	21
AREA OF RAINFOREST (km ²)	~ 8
TOTAL EXPENDITURE TO DATE	\$438,042 (to September 1989)
PROGRAM	01.07.90 to 30.09.90
	Re-evaluation of existing data, possible sampling and petrochemical studies.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 ~ \$5,000

COMMENT

EXPLORATION LICENCE NO.	9/86
LOCATION	Alfred River
TENEMENT HOLDER	Pioneer Resources NL
OPERATOR	Pioneer Resources NL
TOTAL AREA (km ²)	33
AREA OF RAINFOREST (km ²)	33
TOTAL EXPENDITURE TO DATE	\$48,111

PROGRAM 01.07.90 to 30.09.90
 Forward program now due.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90

Not known at present

COMMENT

Land status: non-allocated Crown Land

EXPLORATION LICENCE NO.	14/86
LOCATION	Merton Hill
TENEMENT HOLDER	Blackhorse Mining NL & M.G. Creasy
OPERATOR	Blackhorse Mining NL
TOTAL AREA (km ²)	30
AREA OF RAINFOREST (km ²)	18 approx.
TOTAL EXPENDITURE TO DATE	\$118,000

PROGRAM	01.07.90 to 30.09.90
	Re-evaluation and interpretation of past exploration data.
	No impact on rainforest.

PROPOSED EXPENDITURE	01.07.90 to 30.09.90	\$5,000
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COMMENT	Land status: non-allocated Crown Land
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EXPLORATION LICENCE NO.	18/86
LOCATION	Rosebery
TENEMENT HOLDER	M.G. Creasy
OPERATOR	
TOTAL AREA (km ²)	63
AREA OF RAINFOREST (km ²)	35
TOTAL EXPENDITURE TO DATE	\$97,000

PROGRAM 01.07.90 to 30.09.90

Soil and rock chip sampling.

Wacker drilling (man-portable rig).

Excavator pitting?

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$8,000
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Total budget for lease for period.

COMMENT

Work program and proposed expenditure are based on EL renewal application, as the operator was unavailable for comment. As indicated activities do not include track cutting, it is unlikely that any excavator pitting will occur in heavily vegetated areas. Approximately 5% of the El lies within national estate.

EXPLORATION LICENCE NO.	42/87
LOCATION	Zeehan
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	31
AREA OF RAINFOREST (km ²)	2
TOTAL EXPENDITURE TO DATE	\$139,795

PROGRAM 01.07.90 to 30.09.90

Commence drilling.

Review of 1989/90 program.

No impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$111,500
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COMMENT

Work in rainforest is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	12/88
LOCATION	Rosebery
TENEMENT HOLDER	Austmin Resources NL
OPERATOR	Pasminco
TOTAL AREA (km ²)	20
AREA OF RAINFOREST (km ²)	± 14
TOTAL EXPENDITURE TO DATE	\$298,675

PROGRAM	01.07.90 to 30.09.90
a)	Interpretation of gravity and magnetic data.
b)	Evaluation of existing data incorporating recent drilling at northern end of Rosebery Mine Leases.
c)	Geological mapping, stable isotope studies, geochemical and petrological studies of the northern extension of Rosebery Mine Sequence.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$25,000
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COMMENT

Mapping on the north west slopes of Mt Black using existing access tracks and grids therefore minimal impact on rainforest.

EXPLORATION LICENCE NO.	14/88
LOCATION	Maydena
TENEMENT HOLDER	Pioneer Silicon Industries Pty Ltd
OPERATOR	Pioneer Silicon Industries Pty Ltd
TOTAL AREA (km ²)	81
AREA OF RAINFOREST (km ²)	< 1
TOTAL EXPENDITURE TO DATE	\$127,447 (to 31.03.90)

PROGRAM 01.07.90 to 30.09.90

Track rehabilitation, foot traverses with outcrop sampling
and chemical analysis.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$8,000

COMMENT

No exploration program in the rainforest area between 01.07.90 to 30.09.90.

Approximately 15% of the licence area has been listed in the National Estate. Therefore any exploration program in this part of the EL will be subject to approval by the Interdepartmental Working Group.

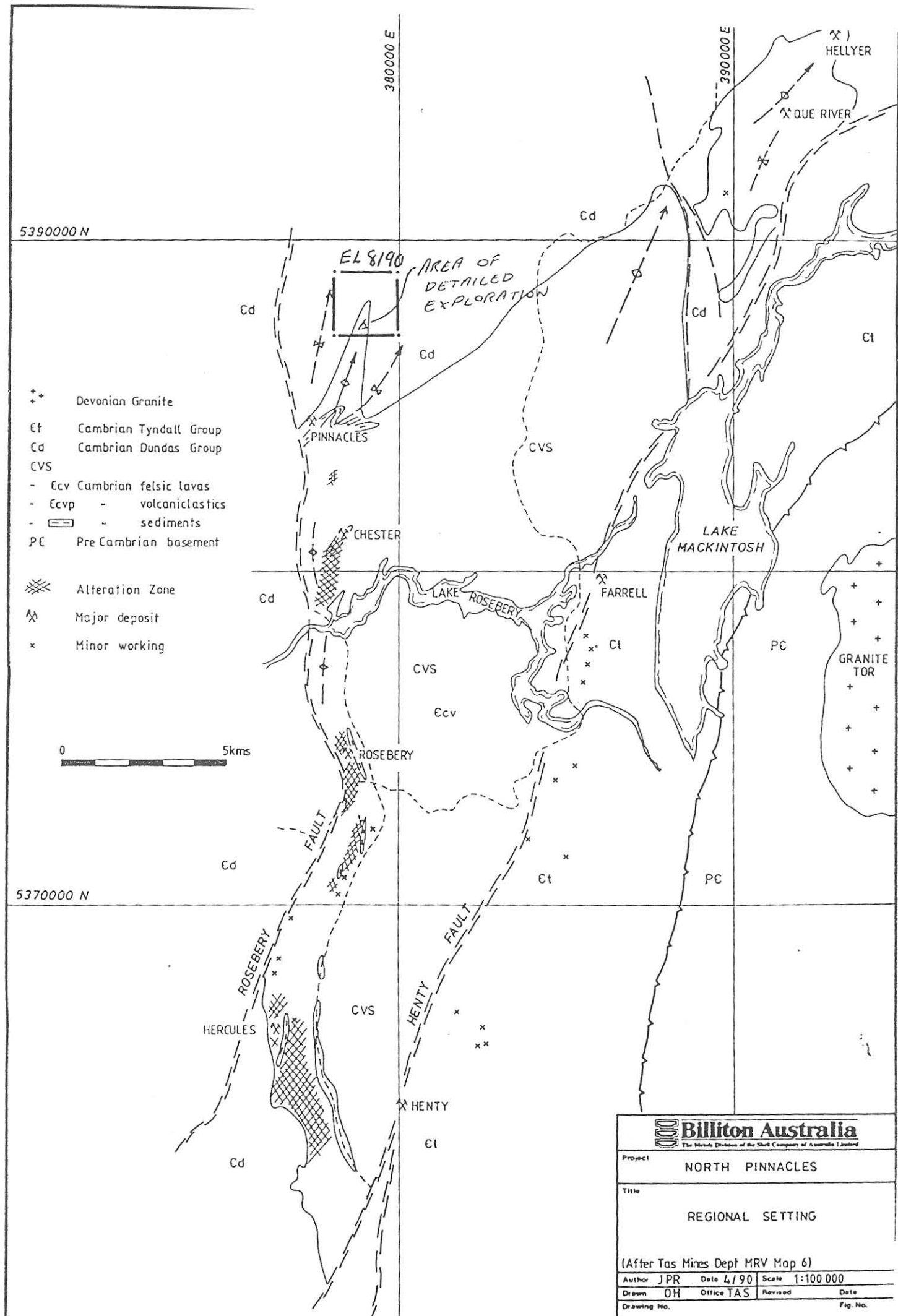
EXPLORATION LICENCE NO.	8/90
LOCATION	The Pinnacles
TENEMENT HOLDER	The Shell Company of Australia Ltd
OPERATOR	The Shell Company of Australia Ltd
TOTAL AREA (km ²)	4
AREA OF RAINFOREST (km ²)	~ 1.5
TOTAL EXPENDITURE TO DATE	\$300 (New licence)

PROGRAM 01.07.90 to 30.09.90

A small geophysical program will be carried out prior to diamond drilling (starting in October 1990) of a single target. See attached map for the area of detailed exploration)

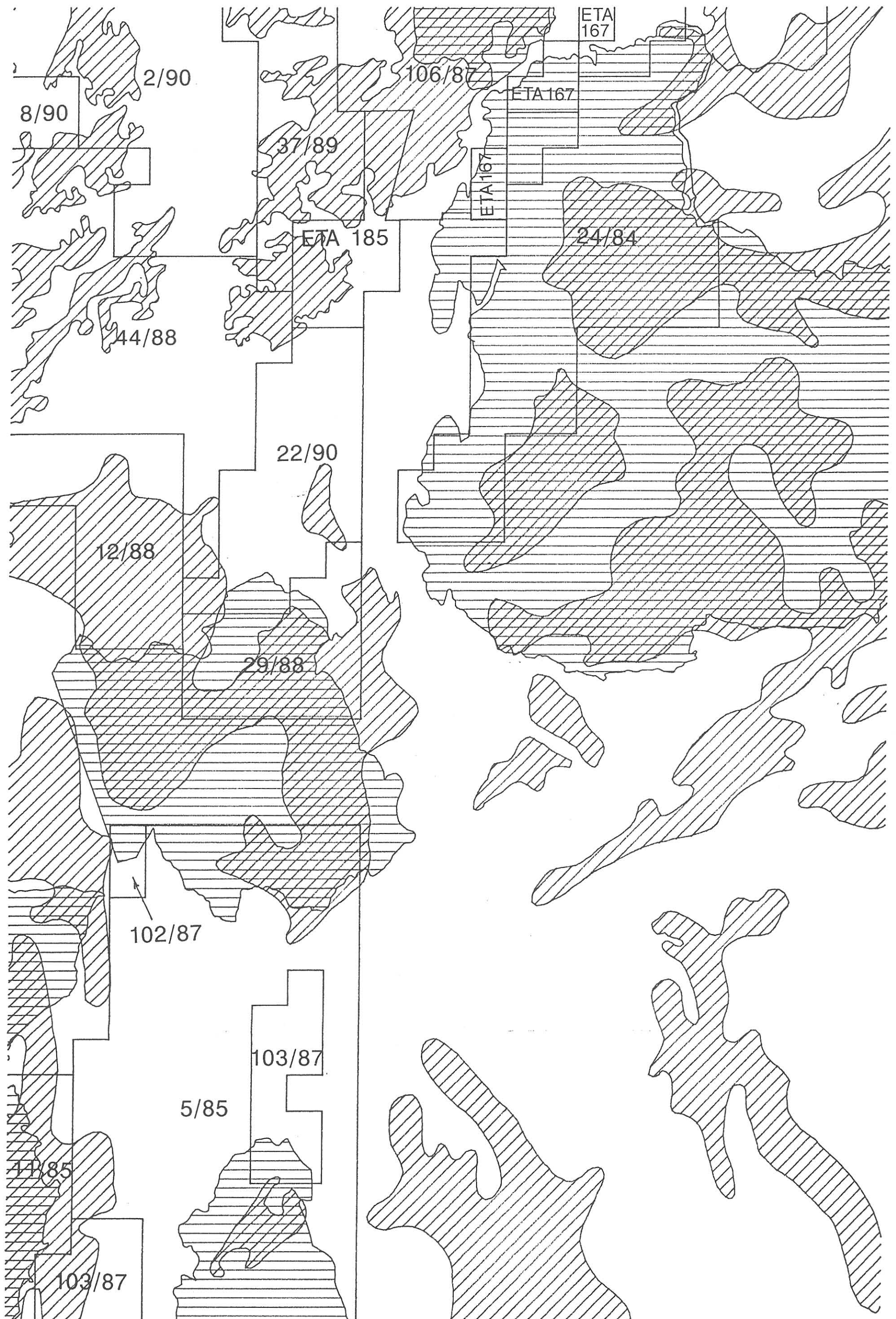
PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$5,000
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COMMENT

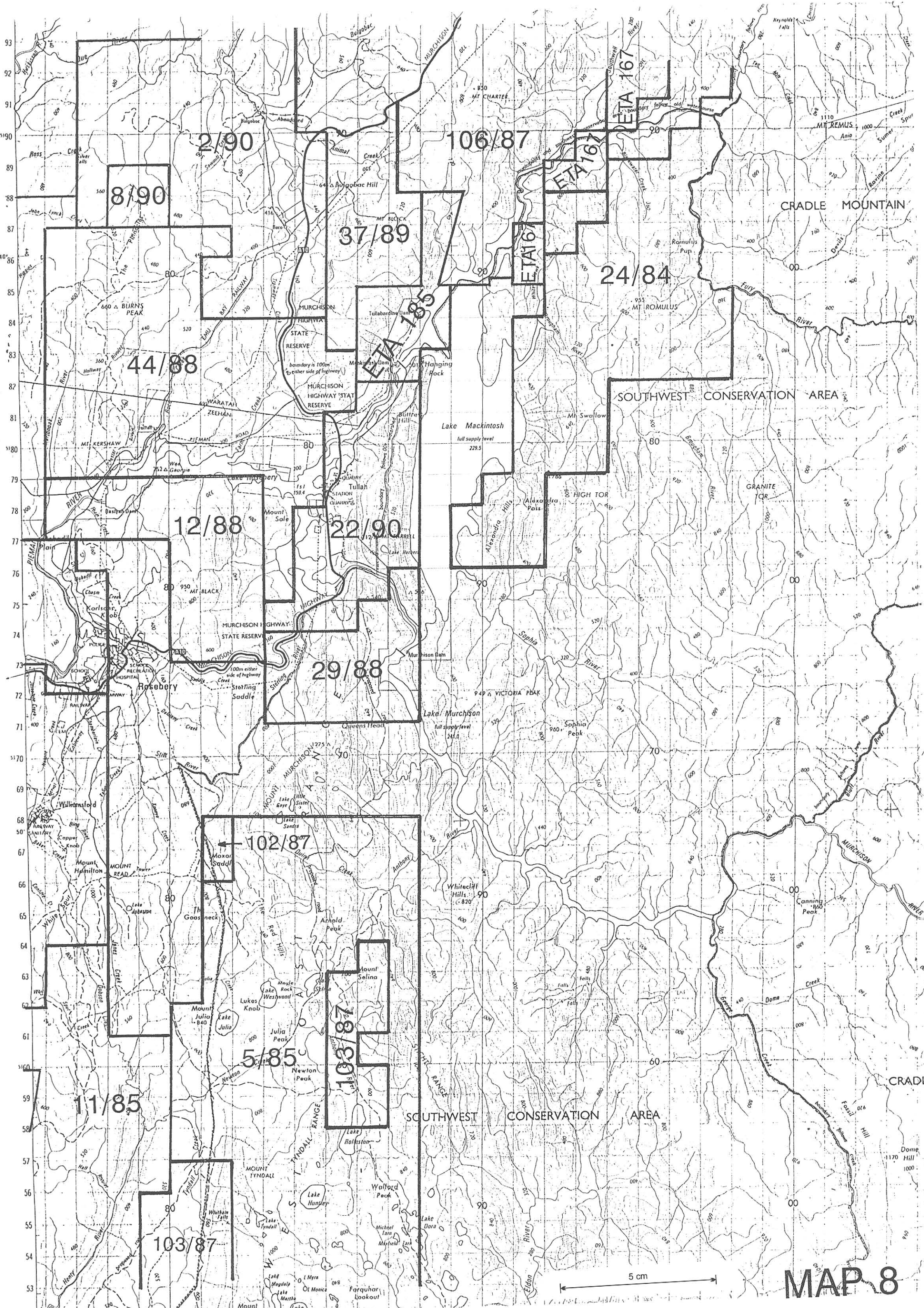


5 cm

MAP 8



MAP 8



EXPLORATION LICENCE NO.	24/84
LOCATION	Mt Romulus
TENEMENT HOLDER	CRA Exploration Pty Ltd
OPERATOR	CRA Exploration Pty Ltd
TOTAL AREA (km ²)	65
AREA OF RAINFOREST (km ²)	35
TOTAL EXPENDITURE TO DATE	\$296,616

PROGRAM 01.07.90 to 30.09.90

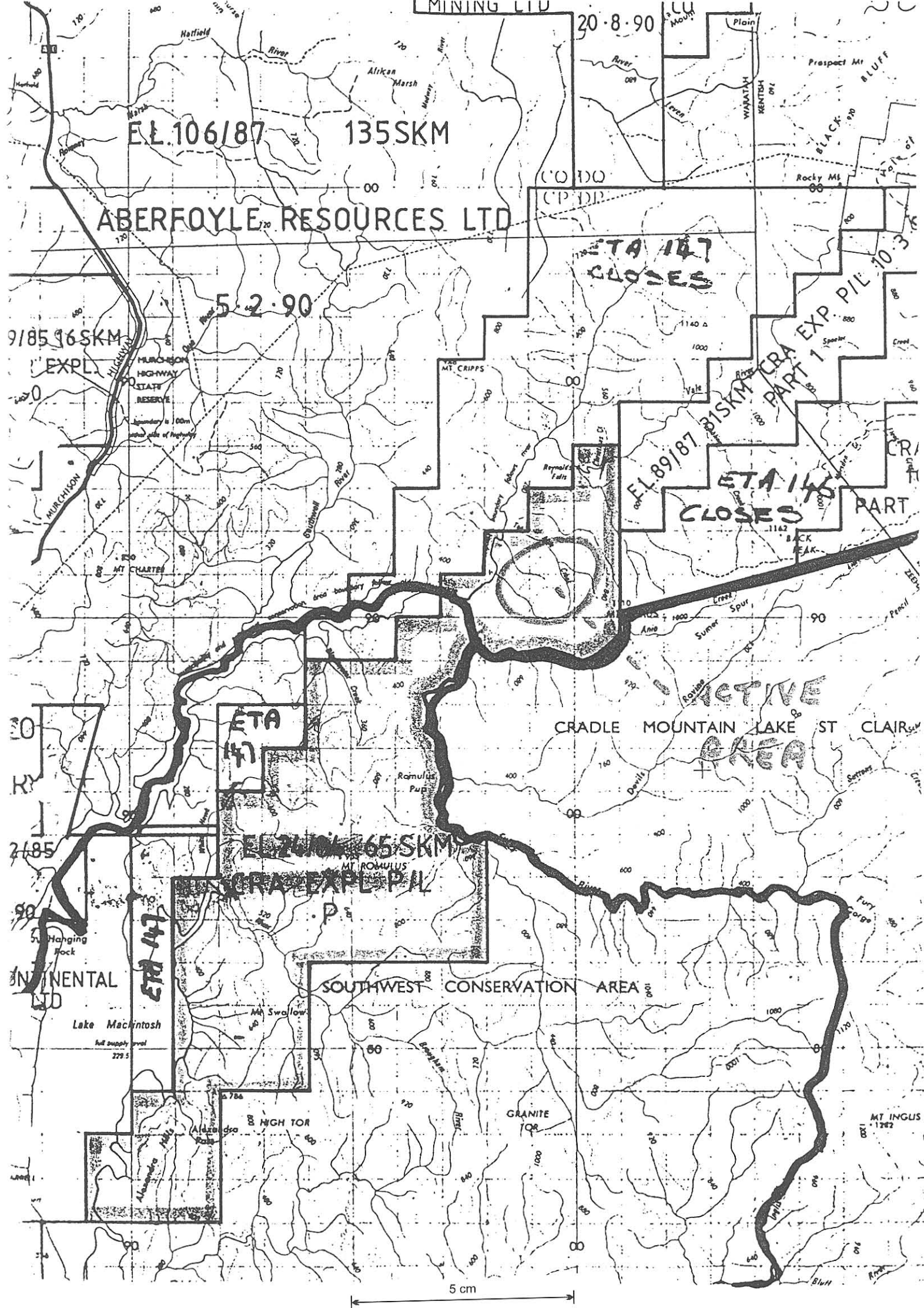
Program will be low key for the next three months and only concern itself with a general review and preparation for the next quarters exploration.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$5,000

COMMENT

This exploration licence is subject to the approval of the Interdepartmental Working Group.

Previous exploration has been minimal impacting techniques i.e. gridding (cutlines) soil sampling, stream sediment, walking. Programs have usually been with helicopter support.



EXPLORATION LICENCE NO.	29/88
LOCATION	Lake Murchison
TENEMENT HOLDER	Norgold Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	17
AREA OF RAINFOREST (km ²)	12
TOTAL EXPENDITURE TO DATE	\$260,000 on EL 29/88
	\$190,000 previously

PROGRAM 01.07.90 to 30.09.90

 A Preparation of drill site and access.

 B Commence diamond drilling.

 Item A will require upgrading of existing vehicle access;
 200 m of new track in rain forest; clearing of drill site
 in rain forest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$35,000
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COMMENT

At 13 March 1990 this E.L. contained 12 km² (estimate) of National Estate. Any work in this area is subject to approval by the Joint Working Group. Work in rain forest elsewhere in the E.L. is to be carried out under departmental guidelines.

EXPLORATION LICENCE NO.	44/88
LOCATION	Burns Peak
TENEMENT HOLDER	Pasminco Ltd and Noranda Ltd
OPERATOR	Geopeko
TOTAL AREA (km ²)	63
AREA OF RAINFOREST (km ²)	25
TOTAL EXPENDITURE TO DATE	\$662,788

PROGRAM 01.07.90 to 30.09.90

Drilling to test for massive sulphides at Chester Mine, North Pinnacles prospects and Hollway alteration zone. Six holes - total 2300 m. Additional short access tracks and drill pads to be constructed off existing extensive network of exploration and forestry tracks, especially in the Hollway and Chester areas. Limited clearing for DHEM loops. Possible gridding in preparation for geophysical/geochemical surveys over eastern (Mackintosh Bluffs) area.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$240,000
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COMMENT

Land status: Uncommitted Crown Land, Timber Reserve.

Not on National Estate.

All activity (01.07.90 - 30.09.90) occurs within rainforest area as identified by the Forestry Commission.

EXPLORATION LICENCE NO.	14/89
LOCATION	Corinna
TENEMENT HOLDER	Outokumpu Exploration Aust. Pty Ltd
OPERATOR	As above
TOTAL AREA (km ²)	42
AREA OF RAINFOREST (km ²)	32
TOTAL EXPENDITURE TO DATE	\$47,924

PROGRAM 01.07.90 to 30.09.90

Current exploration in EL 14/89 will include:

1. Infill gridding, mapping and soil sampling of the Owen-Meridith Grid (cut Feb. 1990). This grid transects an area of rainforest in the south eastern portion of the E.L.;
2. Creek traverses; and
3. Ground magnetic survey.

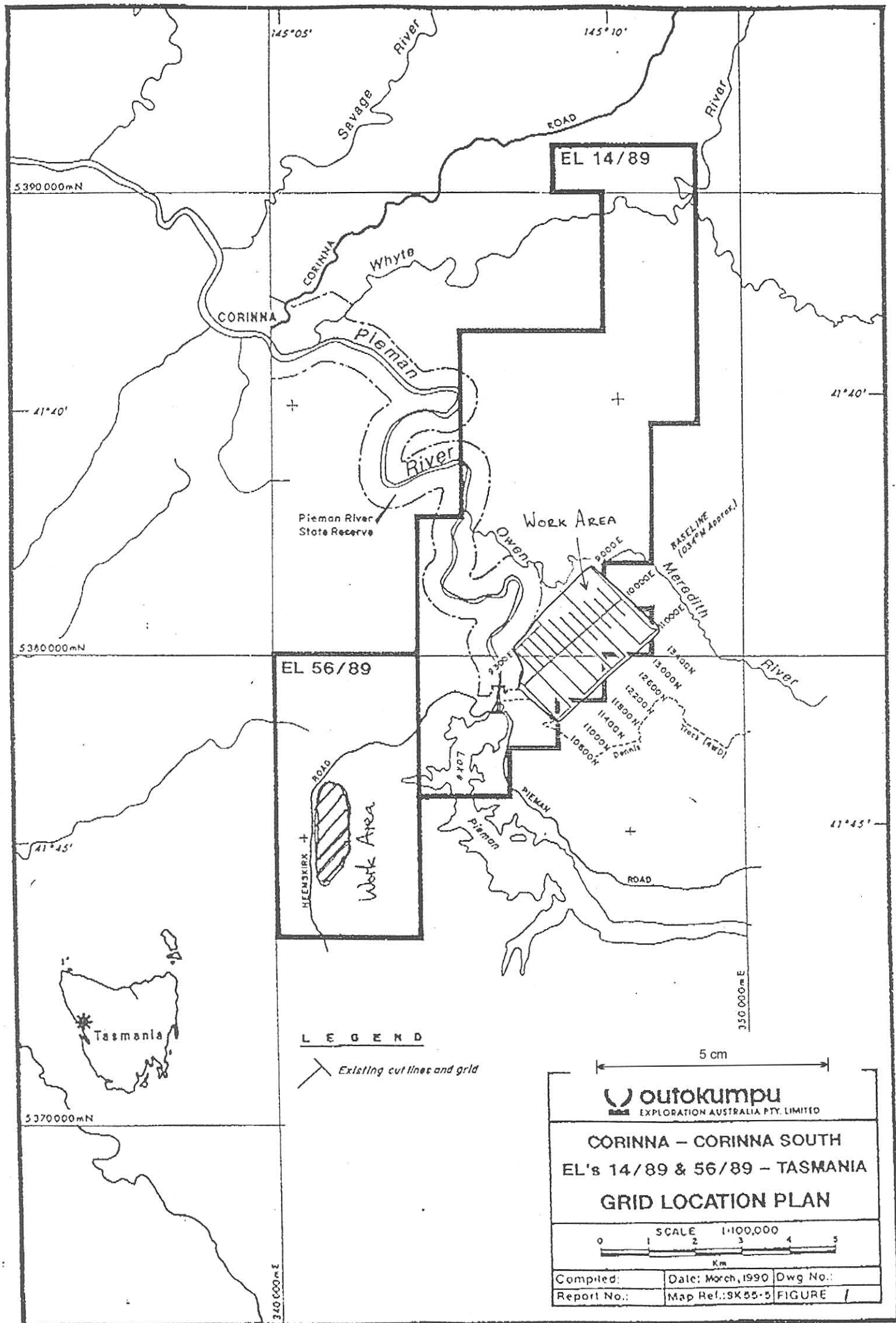
PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$3,800

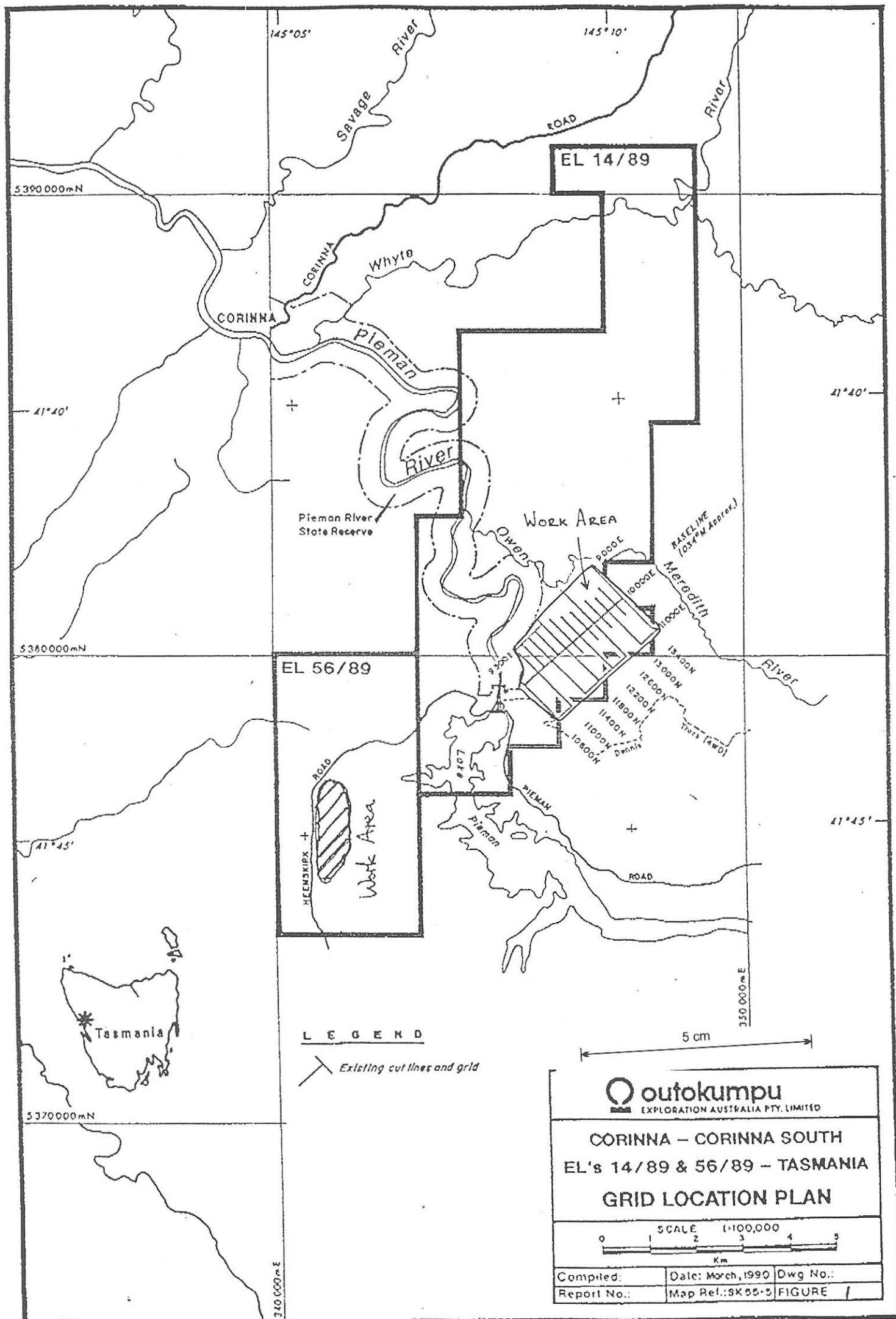
(This value covers some non-rainforest areas. Work area this quarter is approximately 60% rainforest, therefore expenditure in rainforest \$2,280).

COMMENT

Land tenure: Crown Land and land vested in HEC.

Current EL renewal excludes Pieman River State Reserve. Distribution of rainforest within EL requires reclassification following bushfires.





MAP 7

EXPLORATION LICENCE NO.	24/85
LOCATION	Riley Knob
TENEMENT HOLDER	M.G. Creasy
OPERATOR	Callina NL
TOTAL AREA (km ²)	21
AREA OF RAINFOREST (km ²)	~ 8
TOTAL EXPENDITURE TO DATE	\$438,042 (to September 1989)

PROGRAM	01.07.90 to 30.09.90
	Re-evaluation of existing data, possible sampling and petrochemical studies.

PROPOSED EXPENDITURE	01.07.90 to 30.09.90	~ \$5,000
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COMMENT

EXPLORATION LICENCE NO.	22/90
LOCATION	Tullah
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	27
AREA OF RAINFOREST (km ²)	2
TOTAL EXPENDITURE TO DATE	Nil

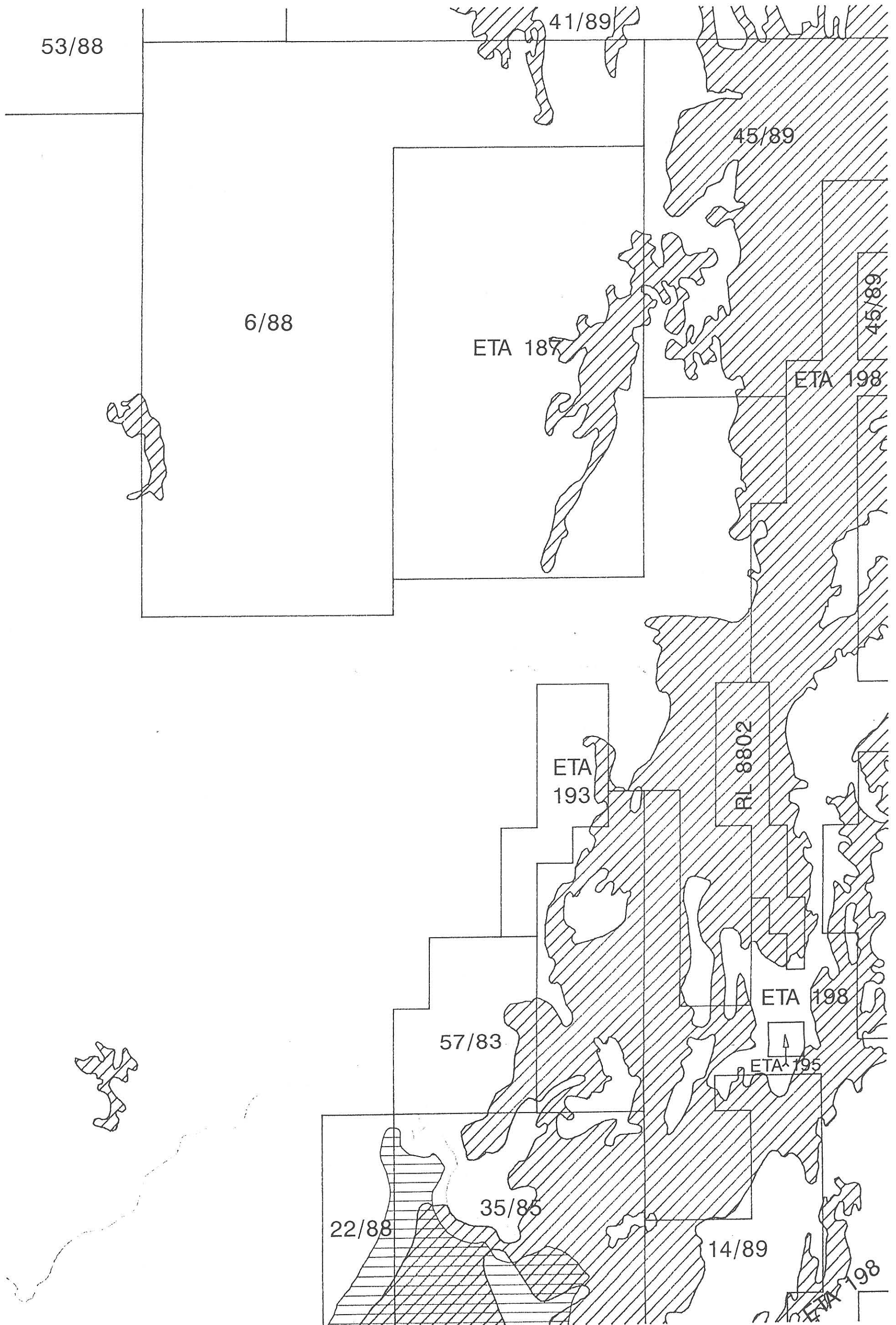
PROGRAM 01.07.90 to 30.09.90
Interpretation of existing aeromagnetics and gravity.
No impact on rain forest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$2,000

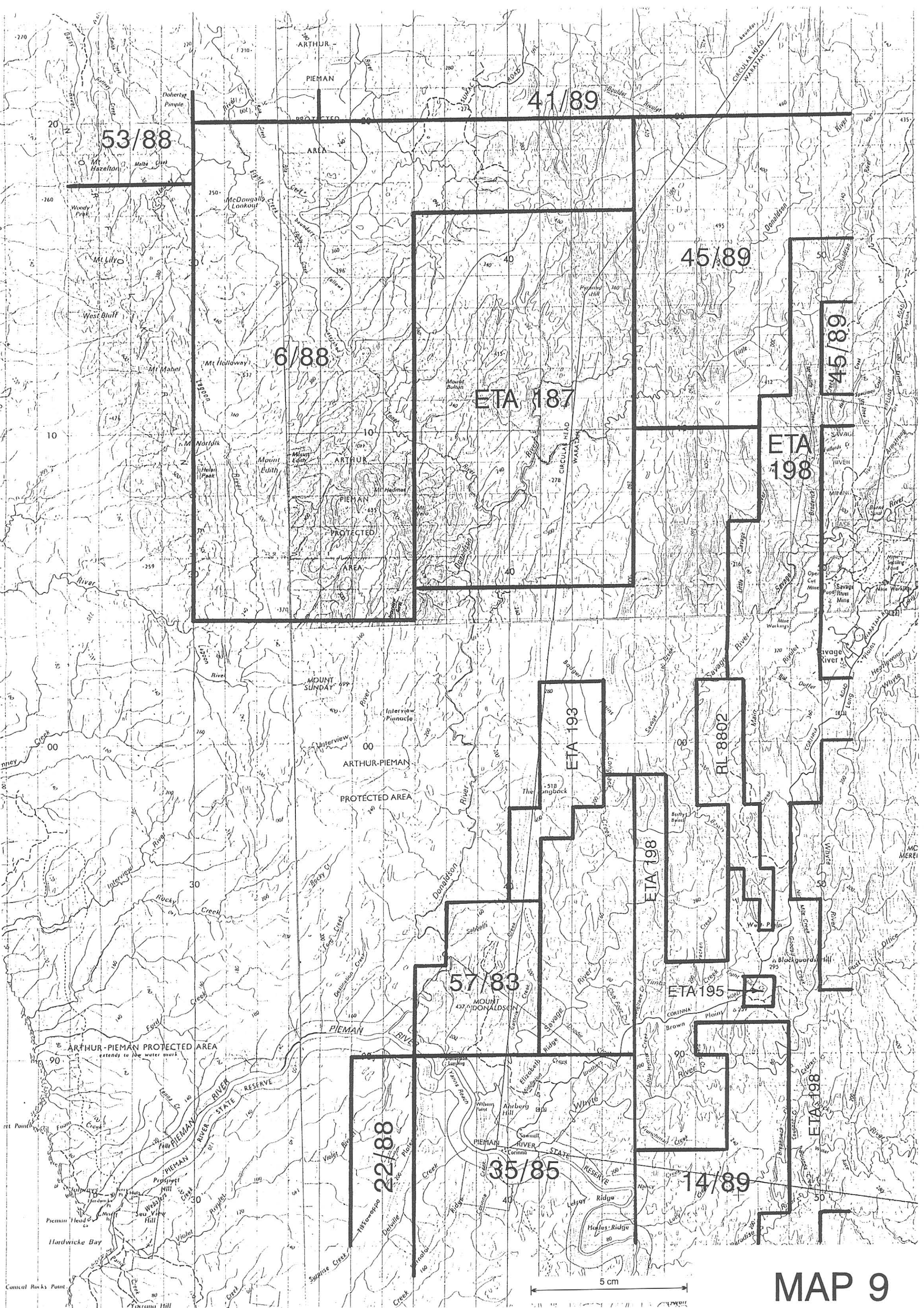
COMMENT

Work in rain forest is to be carried out under government guidelines.

MAP 9



MAP 9



EXPLORATION LICENCE NO.	37/82
LOCATION	The Longback
TENEMENT HOLDER	H.D. Nolan
OPERATOR	H.D. Nolan
TOTAL AREA (km ²)	21
AREA OF RAINFOREST (km ²)	16
TOTAL EXPENDITURE TO DATE	\$364,629 (includes ~\$130,000 for Au exploration on silica only ML's within the EL).

PROGRAM 01.07.90 to 30.09.90

Geological Mapping

Rock chip, soil and stream sediment sampling.

Possibly some cutting of grid lines (to a max. total of 8 km).

The operator is waiting on analytical results from previous work before finalising a detailed program or identifying specific targets.

The work is estimated to employ 2 men full time for the period, with a possible additional 3 casual employees.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$5,600
Budget for the entire lease.	

COMMENT

EXPLORATION LICENCE NO.	57/83
LOCATION	Mt Donaldson
TENEMENT HOLDER	H.D. Nolan
OPERATOR	Aberfoyle
TOTAL AREA (km ²)	14
AREA OF RAINFOREST (km ²)	2
TOTAL EXPENDITURE TO DATE	\$133,218

PROGRAM 01.07.90 to 30.09.90
 No work during this quarter

PROPOSED EXPENDITURE 01.07.90 to 30.09.90
 Administrative costs only

COMMENT

Approximately 5% of the EL lies within the Pieman Protected Area.
Another 5% of the area lies within the Pieman River SR and is
therefore unavailable for exploration.

EXPLORATION LICENCE NO.	6/88
LOCATION	Mt Holloway
TENEMENT HOLDER	Wolston Developments Pty Ltd
OPERATOR	Amatek
TOTAL AREA (km ²)	133
AREA OF RAINFOREST (km ²)	6
TOTAL EXPENDITURE TO DATE	\$31,450

PROGRAM 01.07.90 to 30.09.90
 Gravity Survey
 Seeking a joint venture partner.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$10,000
 (Subject to joint venture partner approval)

COMMENT

Approximately 60% of the EL lies within the Pieman Protected Area. Another 25% lies within national estate.

EXPLORATION LICENCE NO.	45/89
LOCATION	Savage River
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	239
AREA OF RAINFOREST (km ²)	179
TOTAL EXPENDITURE TO DATE	\$9,812

PROPOSED EXPENDITURE	01.07.90	to	30.09.90	\$2,000
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At 13 March 1990 this E.L. contained 227 km² (estimate) of National Estate. Any work in this area is subject to approval by the Joint Working Group. Work in rain forest elsewhere in the E.L. is to be carried out under established guidelines.

RETENTION LICENCE NO.	8802
LOCATION	Bowry Creek
TENEMENT HOLDER	Savage Resources Ltd
OPERATOR	Savage Resources Ltd
TOTAL AREA (km ²)	10
AREA OF RAINFOREST (km ²)	10
TOTAL EXPENDITURE TO DATE	\$3,000,834

PROGRAM 01.07.90 to 30.09.90

Descriptions, processing and metallurgical testing of samples from previous drilling programs.

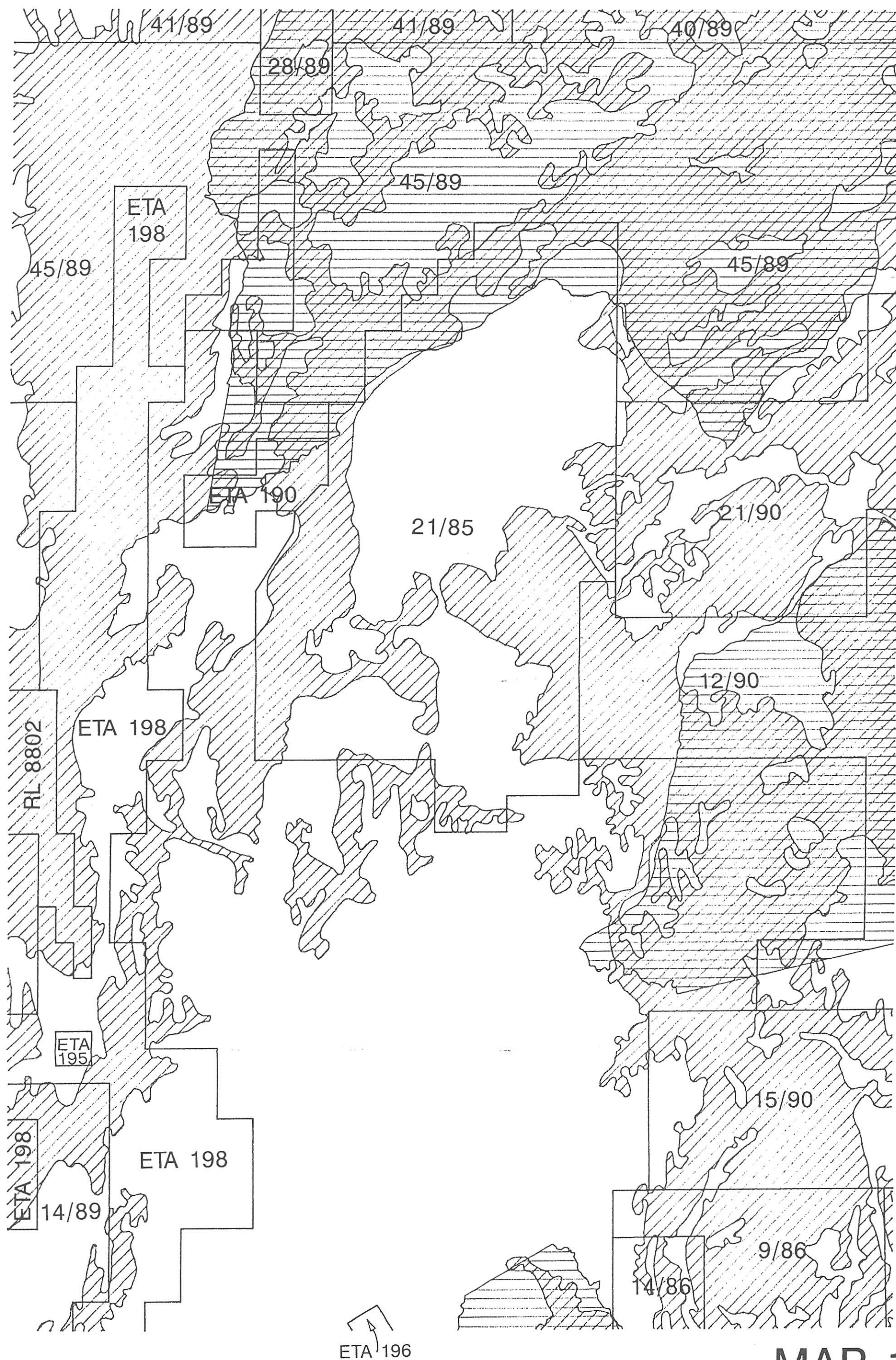
This activity will have no impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$108,000
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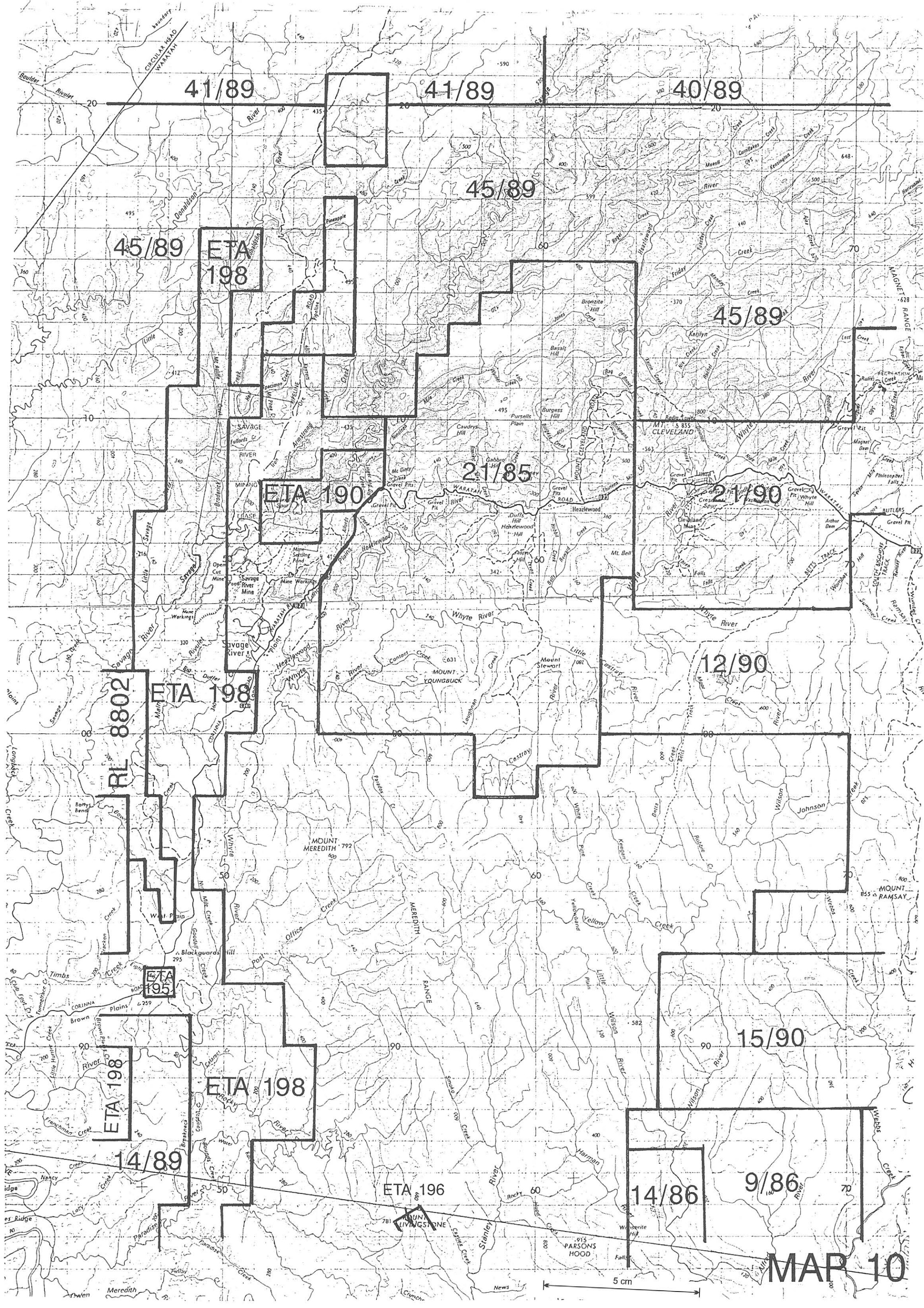
COMMENT

Land status: non allocated Crown Land.

MAP 10



MAP 10



41/89

41/89

40/89

45/89

45/89

ETA 198

45/89

ETA 190

21/85

21/90

RL 8802

ETA 198

12/90

ETA 195

ETA 198

ETA 198

14/89

ETA 196

15/90

14/86

9/86

MAP 10

5 cm

EXPLORATION LICENCE NO.	21/85
LOCATION	Heazlewood
TENEMENT HOLDER	Metals Exploration Pty Ltd
OPERATOR	Juka Mine Management
TOTAL AREA (km ²)	123
AREA OF RAINFOREST (km ²)	37
TOTAL EXPENDITURE TO DATE	\$1,042,733 (to Q1 '89 incl.)

PROGRAM 01.07.90 to 30.09.90
 Seeking joint venture partner.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$1,000
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COMMENT

Approximately 10% of the EL lies within national estate.

EXPLORATION LICENCE NO.	28/89
LOCATION	Little Donaldson River
TENEMENT HOLDER	Nargun Pty Ltd
OPERATOR	Vic Threader and Associates Pty Ltd
TOTAL AREA (km ²)	6
AREA OF RAINFOREST (km ²)	6
TOTAL EXPENDITURE TO DATE	\$900

PROGRAM 01.07.90 to 30.09.90
 Field mapping to define lateral extent of magnesite.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$1,250
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COMMENT

Licence falls in National Estate forest. All field activities are subject to the approval of the Interdepartmental Working Group.

EXPLORATION LICENCE NO.	21/90
LOCATION	Luina
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	53
AREA OF RAINFOREST (km ²)	50
TOTAL EXPENDITURE TO DATE	Nil

PROGRAM 01.07.90 to 30.09.90

Compilation of available data from previous programmes.

Reinterpretation of aeromagnetic data.

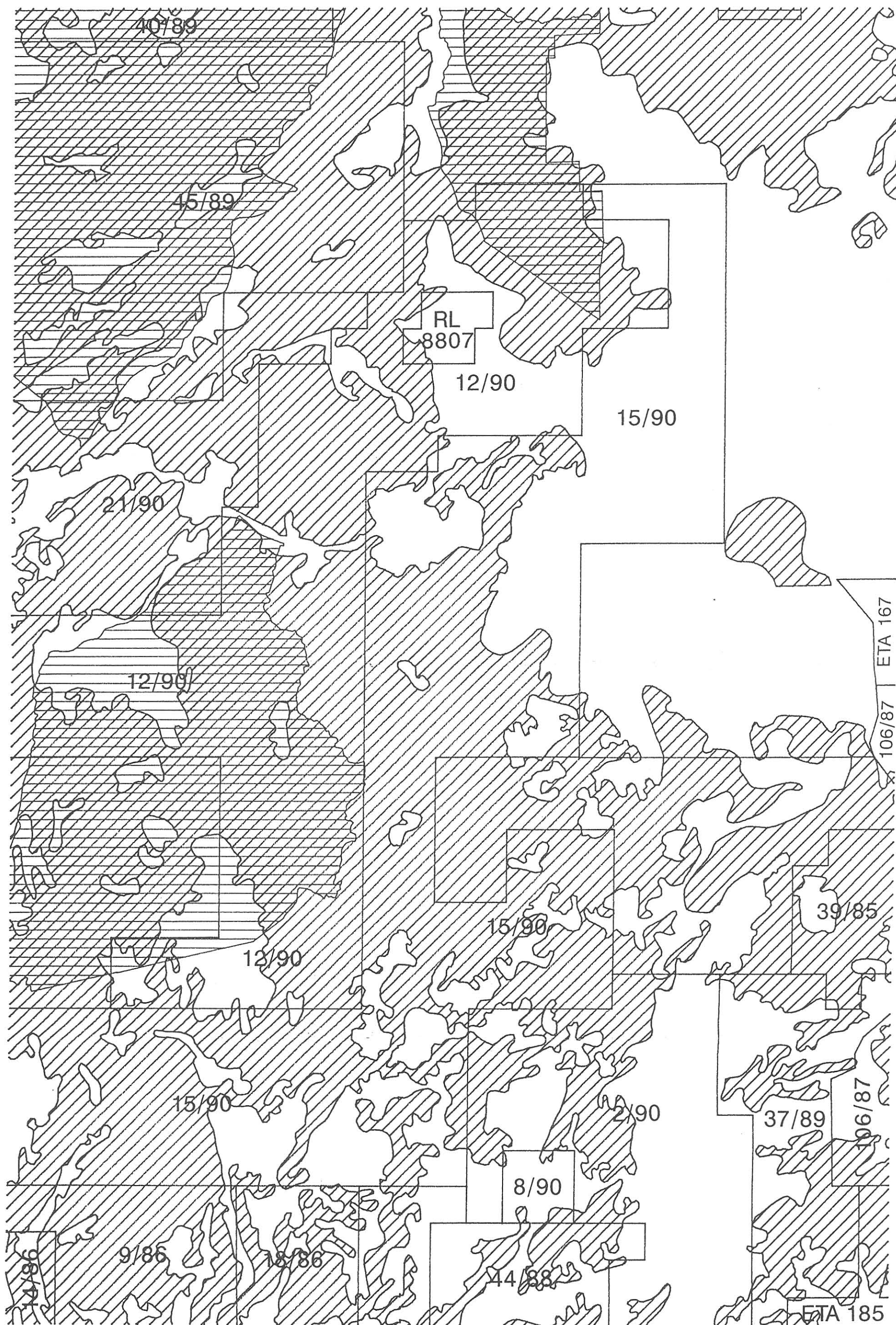
No impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$4,000
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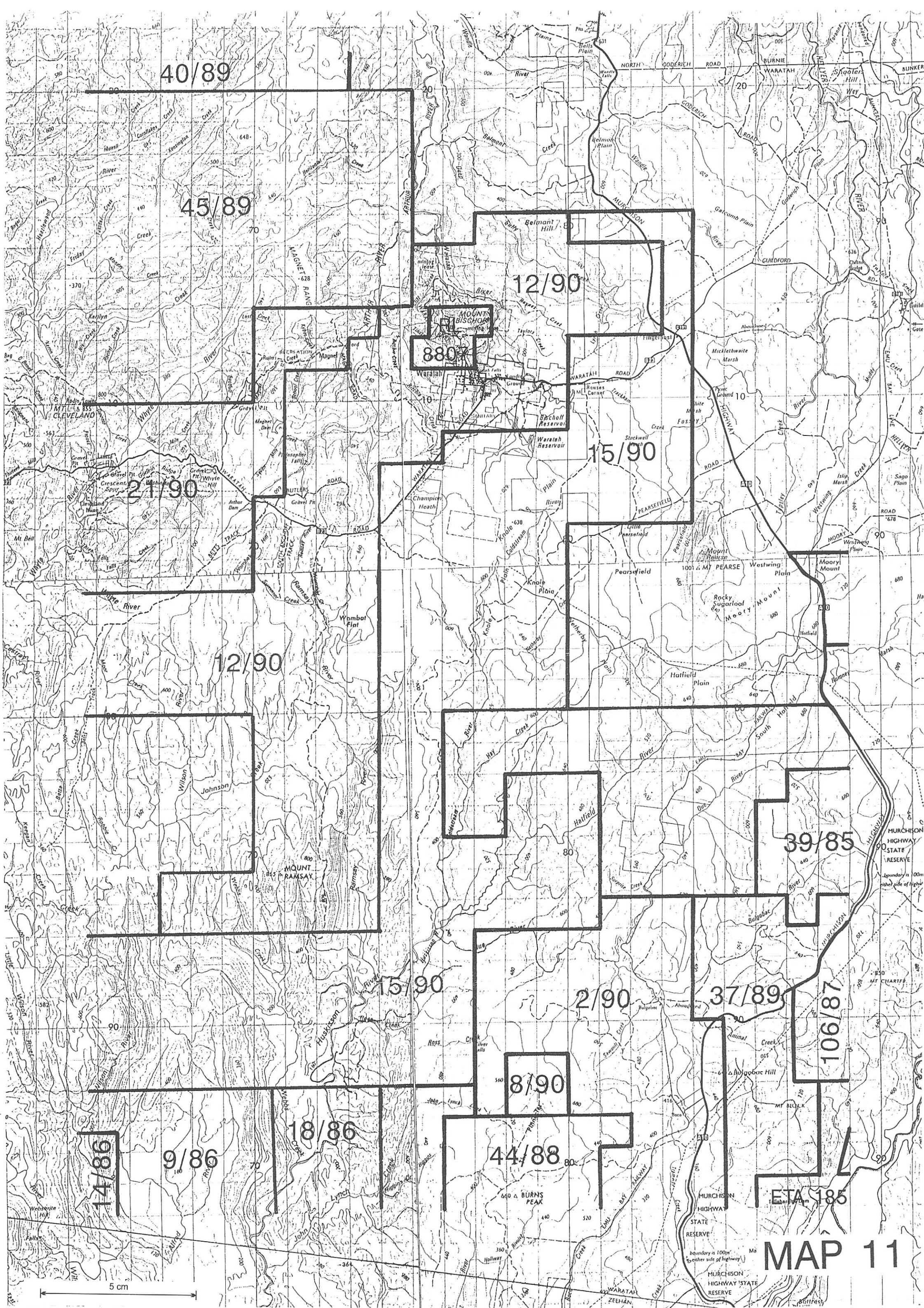
COMMENT

Work in rainforest is to be carried out under established guidelines.

MAP 11



MAP 11



EXPLORATION LICENCE NO.	37/89
LOCATION	Bulgobac Hill
TENEMENT HOLDER	Pasminco Mining
OPERATOR	
TOTAL AREA (km ²)	32
AREA OF RAINFOREST (km ²)	19
TOTAL EXPENDITURE TO DATE	\$76,280

PROGRAM 01.07.90 to 30.09.90

Geological mapping and sampling in Mt Black area.

Gravity and CSAMT surveys at High Point and Sock Creek.

Drilling at High Point and Sock Creek.

It will be necessary to re-establish existing grids in forested areas, extend existing tracks to access drill sites, carry out some clearing for DHEM loops.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$100,000
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COMMENT

Work in rainforest is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	2/90
LOCATION	Que River
TENEMENT HOLDER	The Shell Company of Australia Ltd
OPERATOR	The Shell Company of Australia Ltd
TOTAL AREA (km ²)	55
AREA OF RAINFOREST (km ²)	~ 10
TOTAL EXPENDITURE TO DATE	\$300 (New Licence)

PROGRAM 01.07.90 to 30.09.90

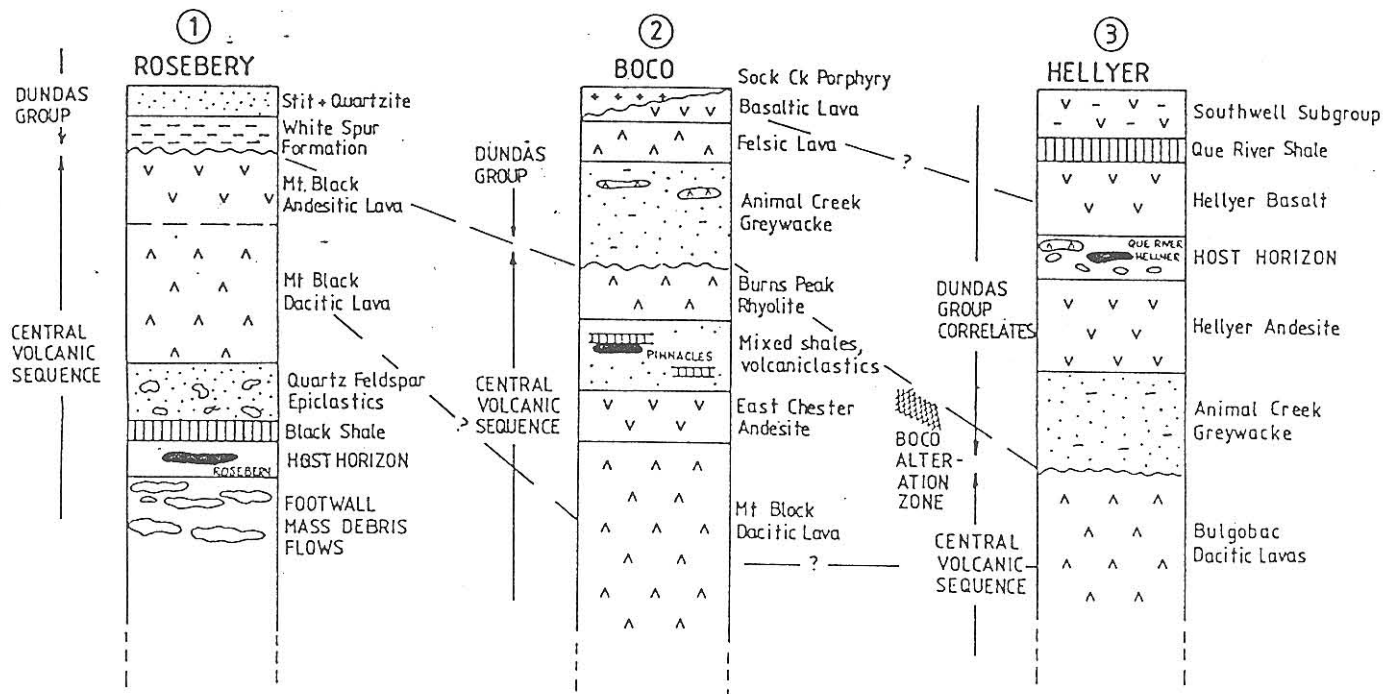
Gridding, CSAMT geophysical surveying. See attached for the area of detailed exploration.

Environmental Precautions:

The gridding and geophysical work will have negligible effect upon the environment. Trees greater than 20 cm in diameter will be left untouched and protected species will not be disturbed. The geophysical program will be confined to the gridded area.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$45,000
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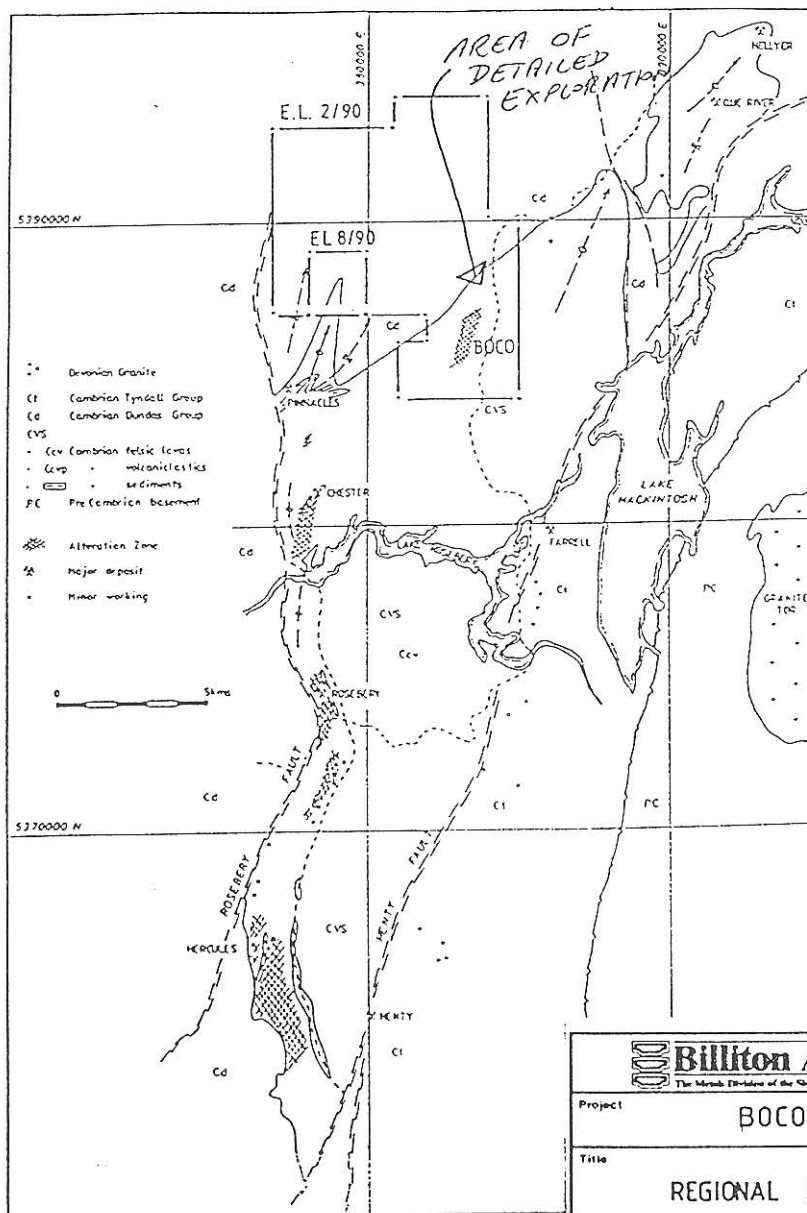
COMMENT



STRATIGRAPHIC COLUMN ③ →

STRATIGRAPHIC COLUMN ② →

STRATIGRAPHIC COLUMN ① →



Billiton Australia
The Minerals Division of the Qinet Company of Australia Limited

Project **BOCO**

Title
REGIONAL SETTING AND STRATIGRAPHIC CORRELATIONS

Author JPR Date 5/90 Scale 1:250,000

Drawn OH Office TAS Revised Date

Drawing No. Fig No.

EXPLORATION LICENCE NO.	12/90
LOCATION	Mt Ramsay
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	77
AREA OF RAINFOREST (km ²)	62
TOTAL EXPENDITURE TO DATE	-

PROGRAM 01.07.90 to 30.09.90

A Reconnaissance mapping and rock sampling.

B Review of all previous work.

Item A will be partly undertaken in rainforest but impact will be minimal.

All access will be along existing tracks and roads or by foot.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90

\$104,000 (combined with EL 15/90)

COMMENT

Work in rainforest is to be carried out under government guidelines.

EXPLORATION LICENCE NO.	15/90
LOCATION	Waratah
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	183
AREA OF RAINFOREST (km ²)	128
TOTAL EXPENDITURE TO DATE	-

PROGRAM 01.07.90 to 30.09.90

A Reconnaissance mapping and rock sampling.

B Review of all previous work.

Item A will be partly undertaken in rainforest but impact will be minimal.

All access will be along existing tracks and roads or by foot.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90

\$104,000 (combined with EL 12/90)

COMMENT

Work in rainforest is to be carried out under established guidelines.

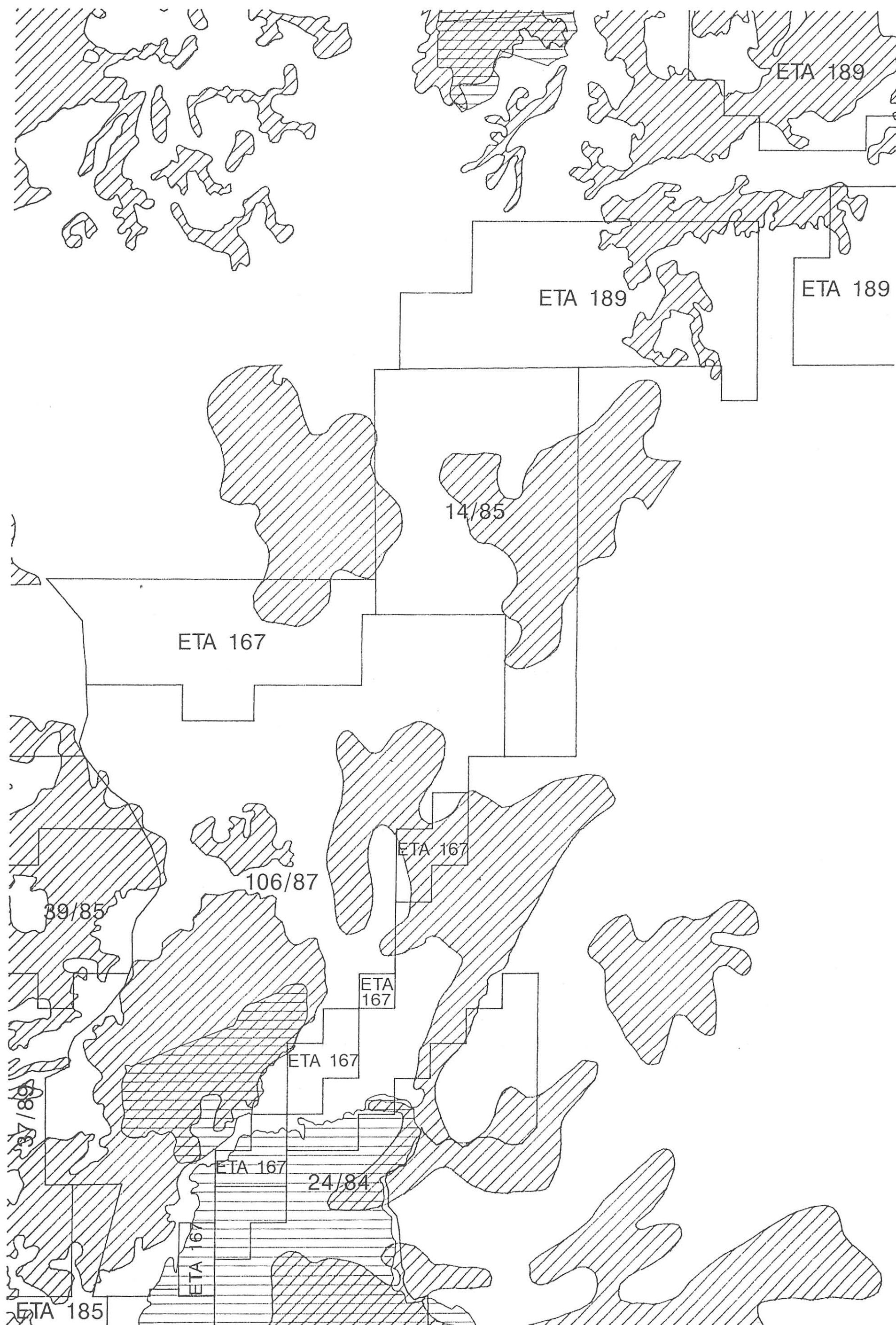
RETENTION LICENCE NO.	8807
LOCATION	Mt Bischoff
TENEMENT HOLDER	Metals Exploration Pty Ltd
OPERATOR	Juka Mine Management
TOTAL AREA (km ²)	4
AREA OF RAINFOREST (km ²)	0.6
TOTAL EXPENDITURE TO DATE	\$5,123 (to Q4 '89 incl.) Previously, \$3,572,106 was spent on EL 13/79 before defining the area for retention.

PROGRAM 01.07.90 to 30.09.90
Retention only.

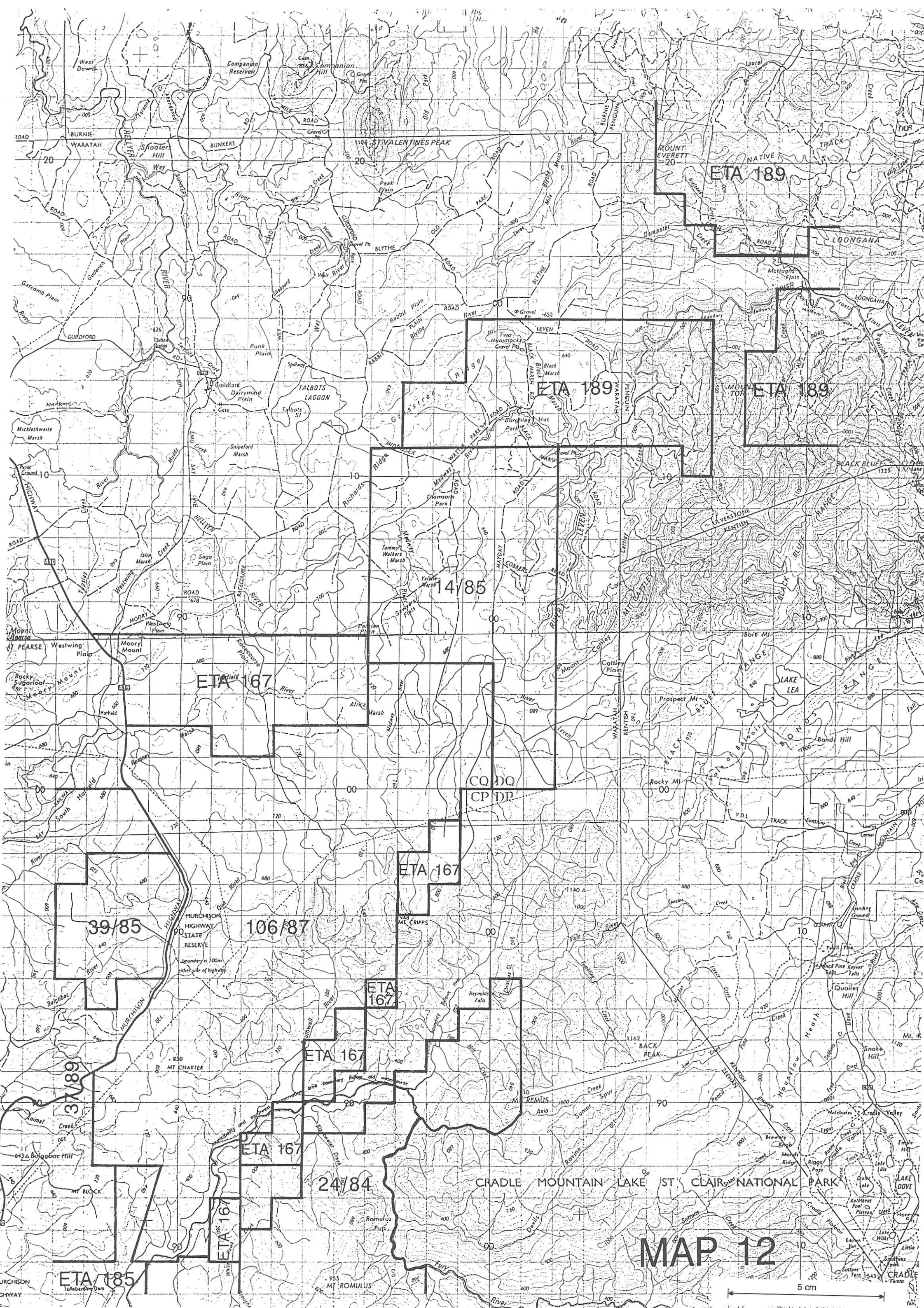
PROPOSED EXPENDITURE 01.07.90 to 30.09.90
Administrative costs and retention fees only

COMMENT

MAP 12



MAP 12



EXPLORATION LICENCE NO.	14/85
LOCATION	Mt Cattley
TENEMENT HOLDER	Pancontinental Mining Ltd.
OPERATOR	Outokumpu Exploration Aust. Pty Ltd
TOTAL AREA (km ²)	47
AREA OF RAINFOREST (km ²)	19
TOTAL EXPENDITURE TO DATE	\$414,367

PROGRAM 01.07.90 to 30.09.90

A stratigraphic drill hole collared at 11000N/10700E, azimuth 020°, inclination -70° is currently being drilled in association with the Mines Department. Other activities will include; logging the core, DHEM surveys and lithogeochemical and lithological studies.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$20,000
(Expenditure within rainforest area is Nil)	

COMMENT

Land Tenure is wholly on Private Land owned by A.F.H. (Burnie).

Current exploration program outside areas defined as rainforest by the Forestry Commission.

EXPLORATION LICENCE NO.	39/85
LOCATION	Bulgobac River
TENEMENT HOLDER	Placer Exploration Ltd
OPERATOR	Placer Exploration Ltd
TOTAL AREA (km ²)	16
AREA OF RAINFOREST (km ²)	14.5
TOTAL EXPENDITURE TO DATE	\$1,095,056

PROGRAM 01.07.90 to 30.09.90

Placer are currently drilling on this E.L. They propose to extend the program to two more drill holes located in rainforest. Access would be via a 600 m extension, to an already existing track. Further geophysical cutline loops are also proposed with follow-up down hole electro-magnetic surveys.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$80,000 is allocated

COMMENT

All work is undertaken in rainforests and subject to the same controls as applied to areas in the South West Conservation Area.

5 cm

SOPHIA

LAND TENURE INDEX SERIES

YOLLA 56 km

E.L.146

PANCO
MINING

E.L.106/87

135 SKM

ABERFOYLE RESOURCES LTD

5.2.90

E.L.39/85

PLACER EXPL.

11.2.90

MURCHISON
HIGHWAY
STATE
RESERVE

Boundary is 100m
either side of highway

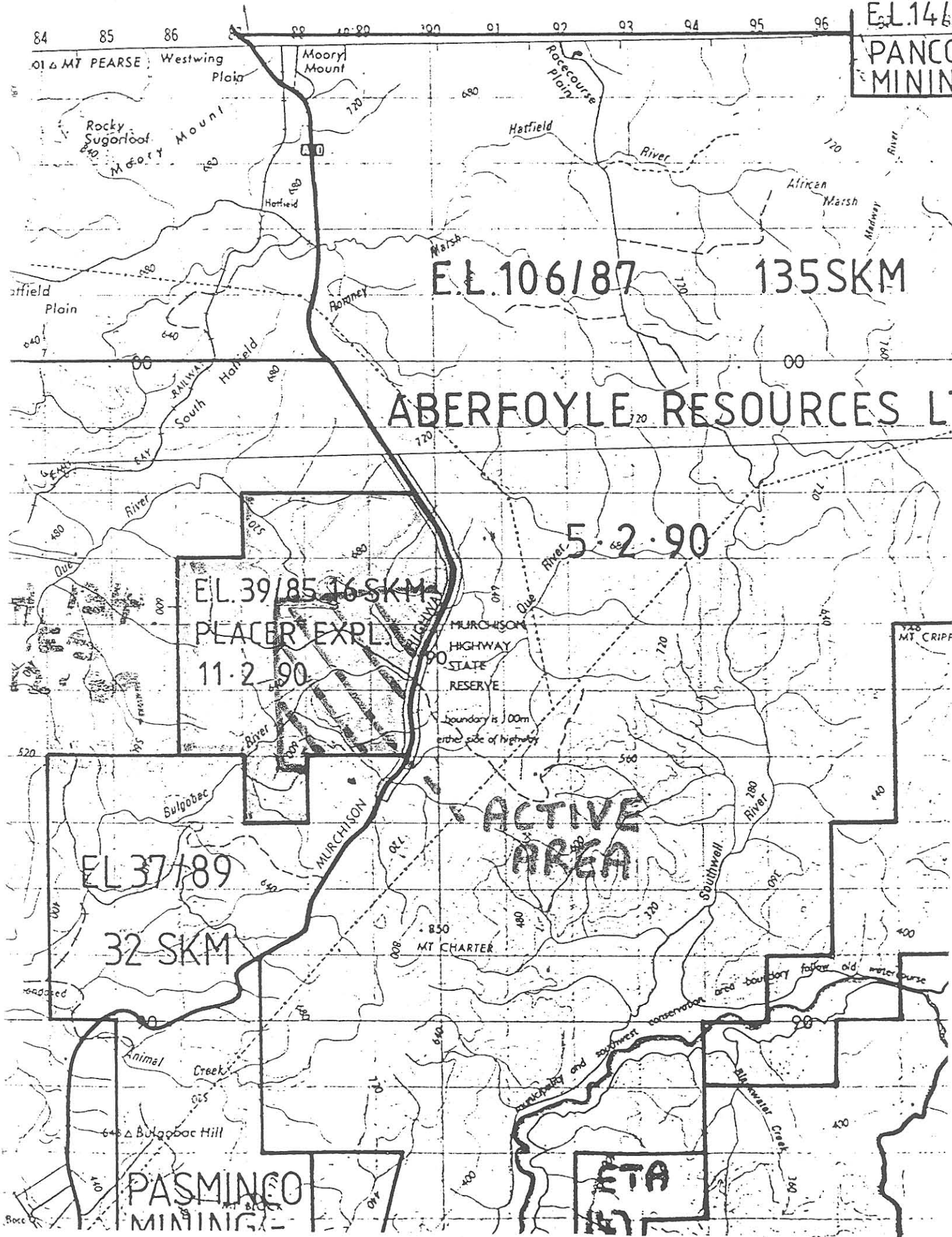
ACTIVE
AREA

E.L.37/89

32 SKM

PASMINCO
MINING

ETA



EXPLORATION LICENCE NO:	106/87
LOCATION	Lake Mackintosh
TENEMENT HOLDER	Aberfoyle Resources Ltd
OPERATOR	Aberfoyle Resources Ltd
TOTAL AREA (km ²)	95
AREA OF RAINFOREST (km ²)	± 65
TOTAL EXPENDITURE TO DATE	\$1,256,214

PROGRAM 01.07.90 to 30.09.90

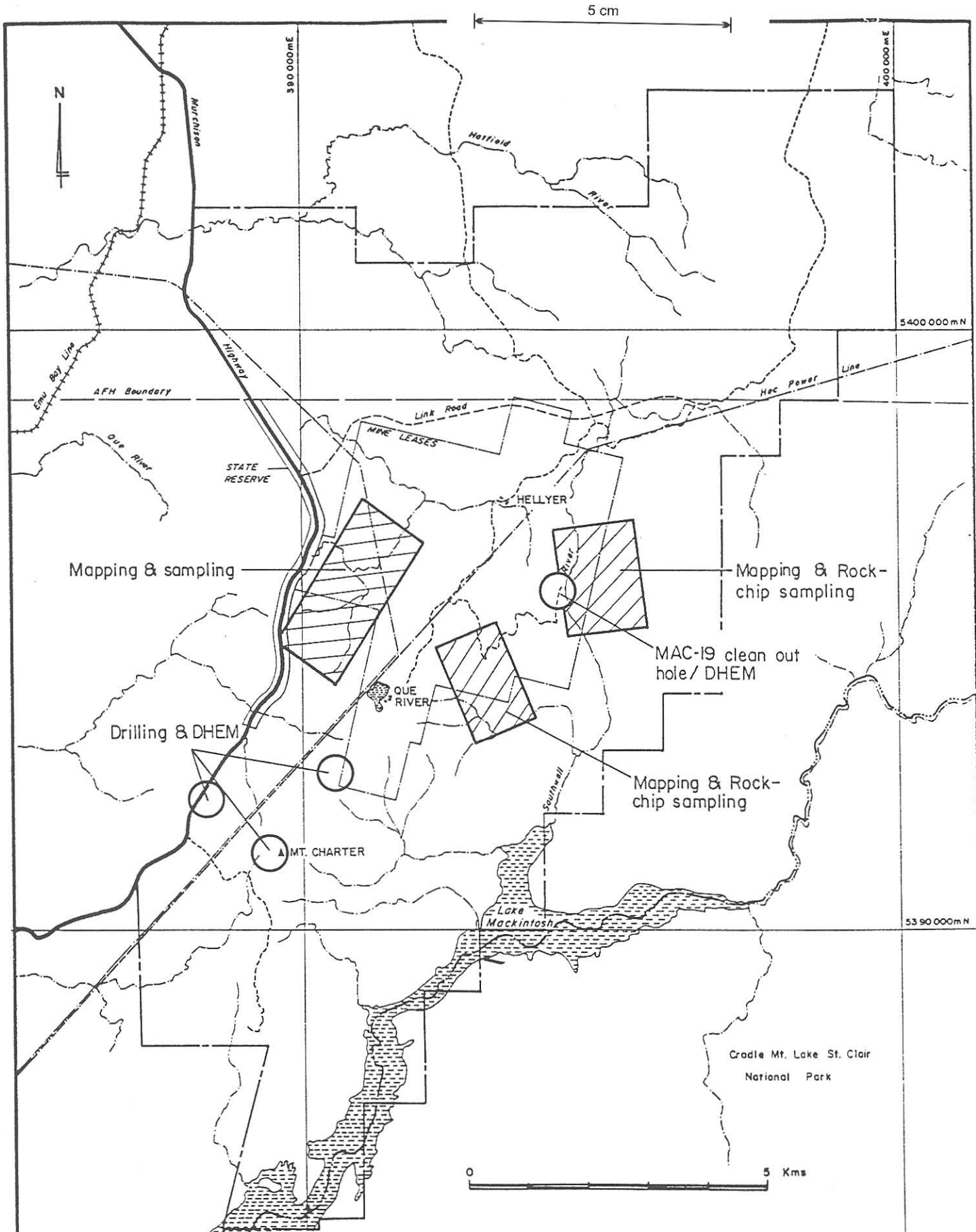
- a) Diamond drilling - 1150 m. Will require some access tracks, site clearance and sump digging.
- b) Down hole E.M. Up to 4 km of line cutting required.
- c) Mapping and rock-chip sampling.

See attached Aberfoyle map summarising work program.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$160,000
--	-----------

COMMENT

Aberfoyle will be using existing grids and tracks for most of this exploration. All of this work will be in rainforest.



Aberfoyle Resources Limited EXPLORATION DIVISION

REVISIONS			
Init.	Date	Init.	Date
RJE	May 90		

NORTH WEST TASMANIA
LAKE MACKINTOSH EL 106/87
Proposed Exploration July-Nov.1990

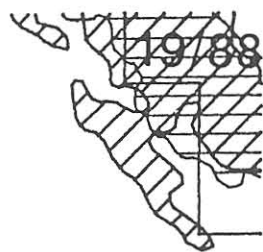
Compiled : A McN
Drawn :
Traced :
Checked :
Plate No. : MAC 181

Location Code : K55/6/44

Scale : As shown

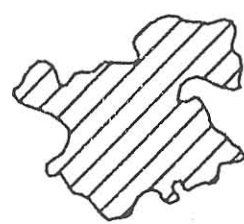
Date : May, 1990

MAP 13



52/89

18/90



53/88

5 cm

19/88

68/89
52

53/88

18/90

ARTHUR-PIEMAN PROTECTED AREA

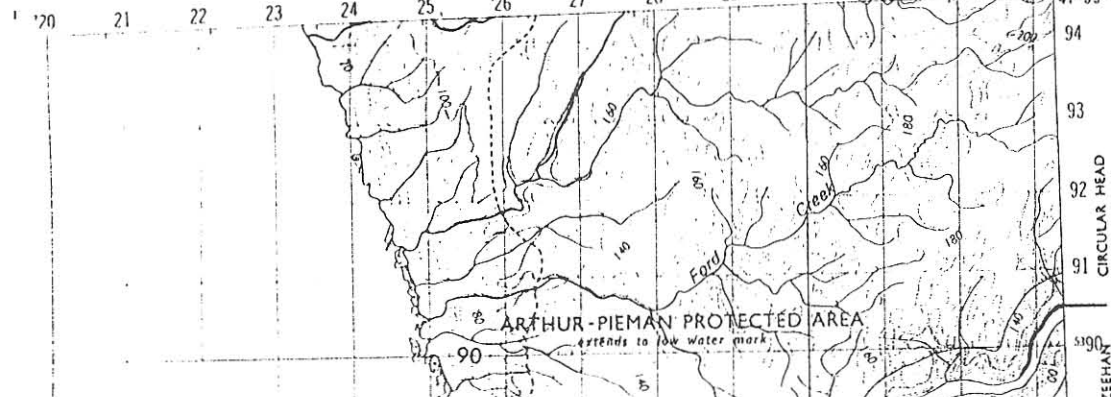
Extends to low water mark

State Forest boundaries in the Arthur-Pieman area when not otherwise defined are 25m from the edge of the timbered land

S
O
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N

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C
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A
N

145°00' 41°35'



EXPLORATION LICENCE NO.	18/90
LOCATION	Temma
TENEMENT HOLDER	Neudos MG and Pastoral Co Pty Ltd
OPERATOR	
TOTAL AREA (km ²)	250
AREA OF RAINFOREST (km ²)	0
TOTAL EXPENDITURE TO DATE	-

PROGRAM 01.07.90 to 30.09.90
Reconnaissance mapping
Sampling (hand held auger)
Preliminary environmental/archeological survey

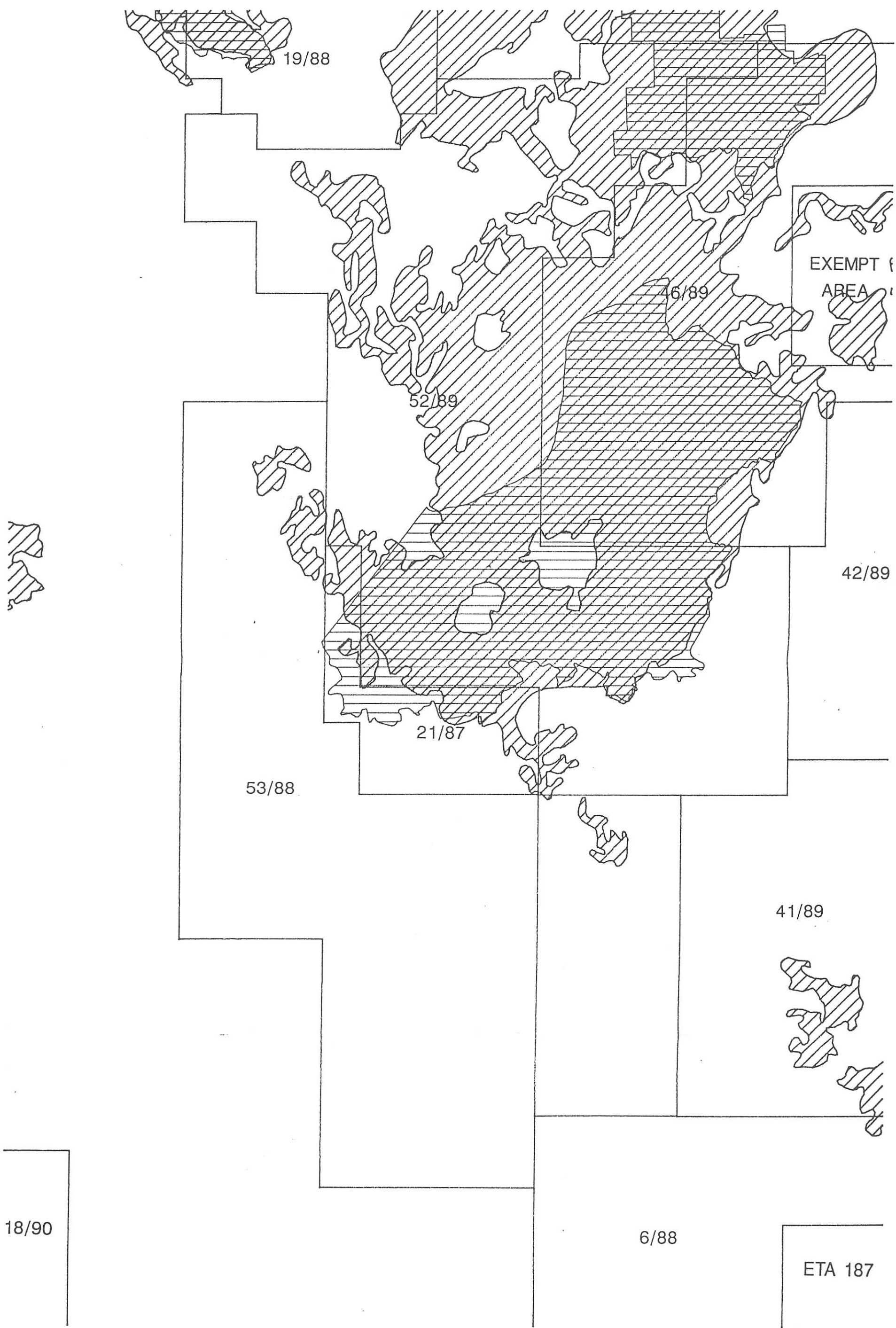
PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$15,250
(25% of proposed expenditure for first year of EL, as per
EL application)

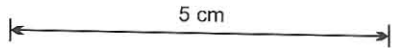
COMMENT

Approximately 75% of the EL lies within the Pieman Protected Area.

MAP 14

MAP 14





EXPLORATION LICENCE NO.	21/87
LOCATION	Balfour
TENEMENT HOLDER	Aureole Resources P/L, Winston Resources P/L & Sierra Nevada Resources P/L
OPERATOR	K.C. Morrison P/L
TOTAL AREA (km ²)	20
AREA OF RAINFOREST (km ²)	± 8
TOTAL EXPENDITURE TO DATE	\$50,644

PROGRAM 01.07.90 to 30.09.90
 No work planned.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90

COMMENT

± 4 km² in Arthur-Pieman Protected Area.

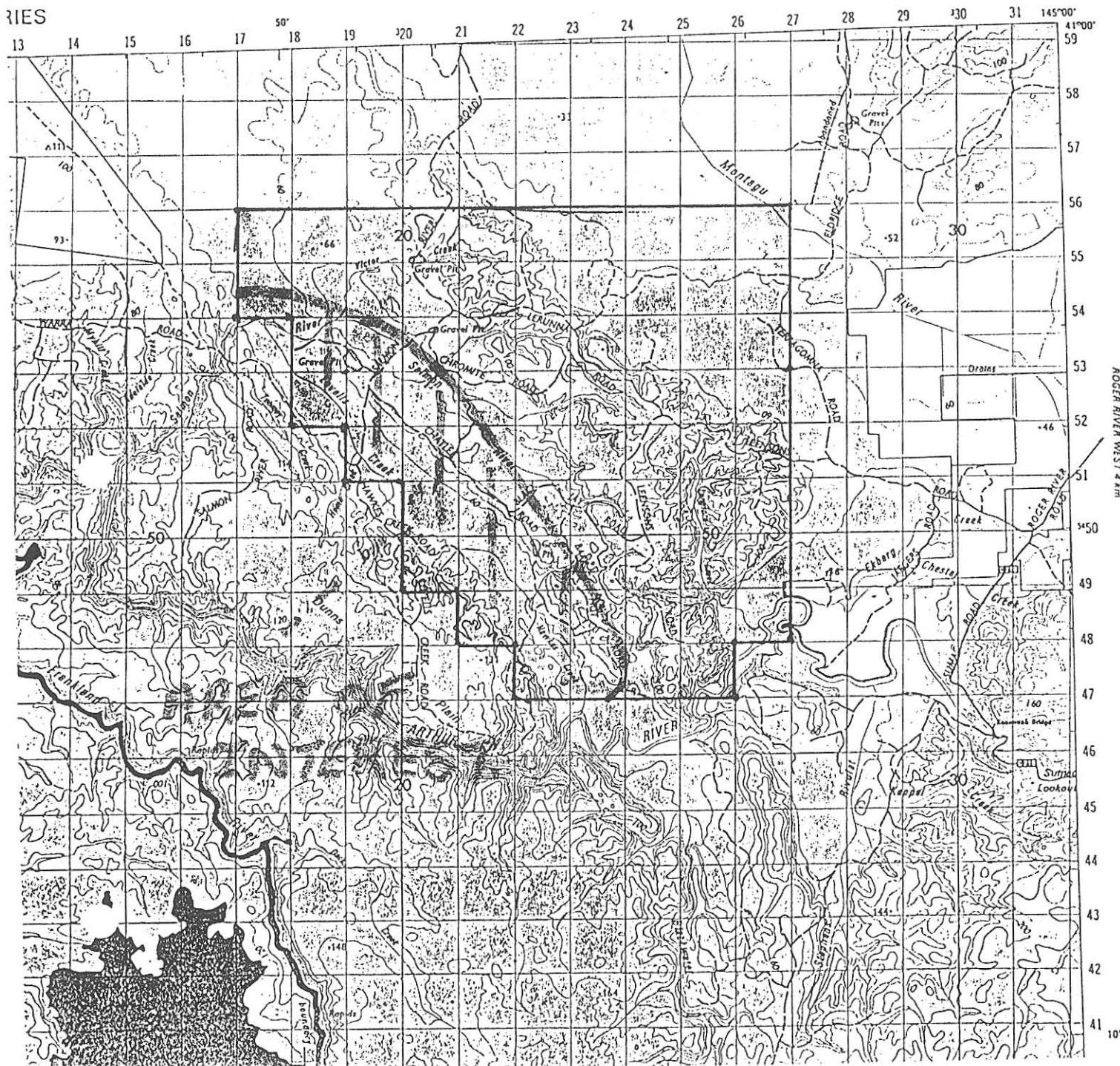
EXPLORATION LICENCE NO.	19/88
LOCATION	Montagu River
TENEMENT HOLDER	C.H. Whitehead
OPERATOR	C.H. Whitehead
TOTAL AREA (km ²)	70
AREA OF RAINFOREST (km ²)	35
TOTAL EXPENDITURE TO DATE	\$41,980

PROGRAM 01.07.90 to 30.09.90
No proposed program for this period.
Previous work has consisted of stream sampling, auger
sampling and laboratory analysis.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90
No proposed expenditure for this period.

COMMENT
Will probably reduce area soon but wishes to retain rainforest
portions.
Exploration has consistently been low impacting.

AY
RIES



EL 19/88

ROGER RIVER WEST 4 km

EXPLORATION LICENCE NO.	53/88
LOCATION	Mt Frankland
TENEMENT HOLDER	Soloriens Mining Pty Ltd
OPERATOR	K.C. Morrison Pty Ltd
TOTAL AREA (km ²)	125
AREA OF RAINFOREST (km ²)	5 approx.
TOTAL EXPENDITURE TO DATE	\$36,913

PROGRAM 01.07.90 to 30.09.90
 No field activities planned during the quarter.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

COMMENT

Land status: Arthur Pieman Protected Area.

EXPLORATION LICENCE NO.	41/89
LOCATION	Mt Bertha
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	249
AREA OF RAINFOREST (km ²)	100
TOTAL EXPENDITURE TO DATE	\$8,506

PROGRAM 01.07.90 to 30.09.90
 Compilation of existing data.
 No impact on rain forest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$2,000
---	---------

COMMENT

At 13.03.90 this EL contained 162 skm (estimate) of National Estate. Any work in this area is subject to approval by the Joint Working Group. Work in rainforest elsewhere in the EL is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	46/89
LOCATION	Julius River
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	94
AREA OF RAINFOREST (km ²)	75
TOTAL EXPENDITURE TO DATE	\$16,044

PROGRAM 01.07.90 to 30.09.90
 Compilation of existing data.
 No impact on rain forest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$1,000
---	---------

COMMENT

At 13.03.90 this EL contained 47 skm (estimate) of National Estate. Any activity in this area is subject to approval by the Joint Working Group. Work in rainforest elsewhere in the EL is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	52/89
LOCATION	Balfour
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	177
AREA OF RAINFOREST (km ²)	106
TOTAL EXPENDITURE TO DATE	\$9,293

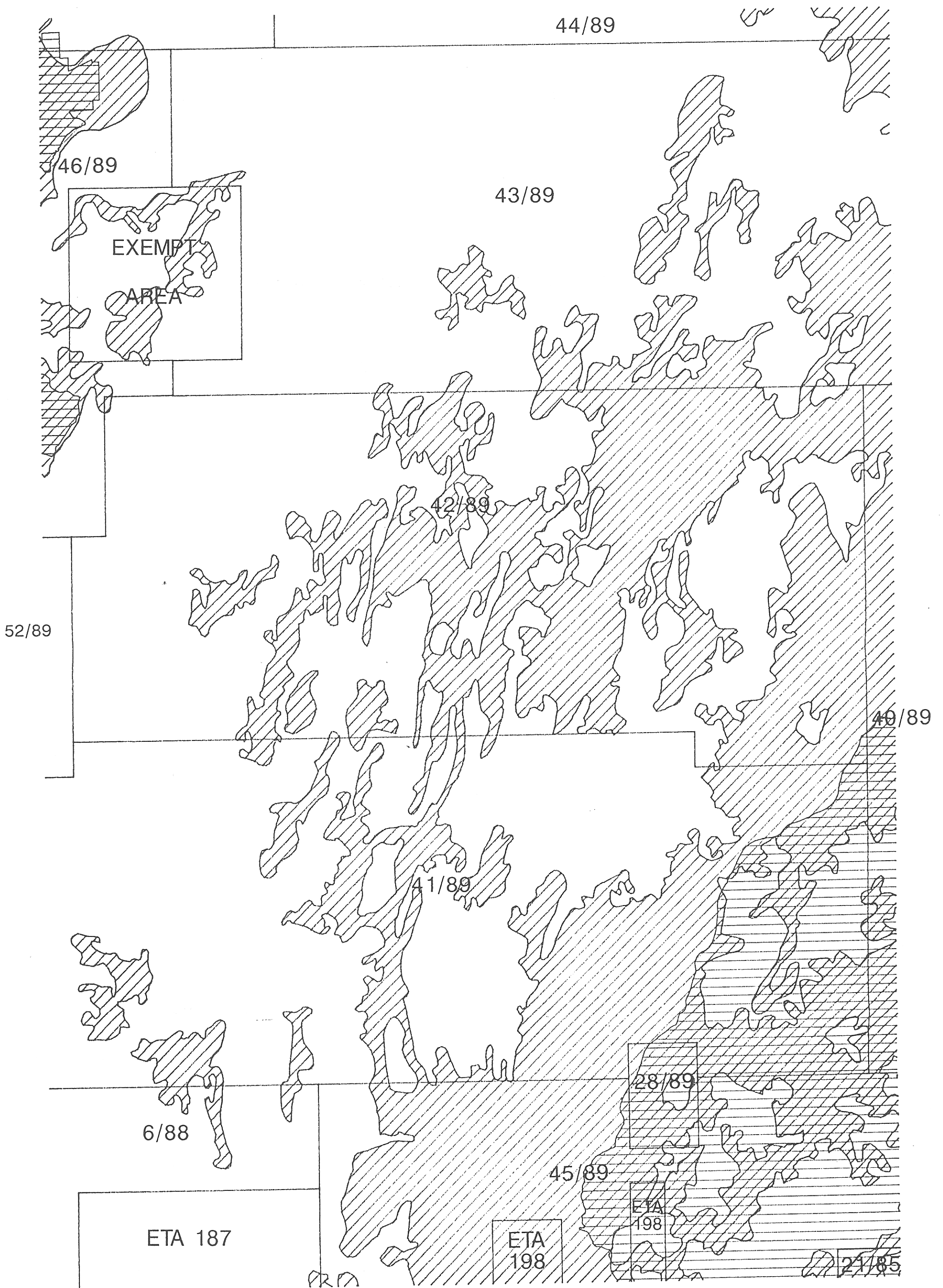
PROGRAM 01.07.90 to 30.09.90
 Compilation of existing data.
 No impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$3,000
--	---------

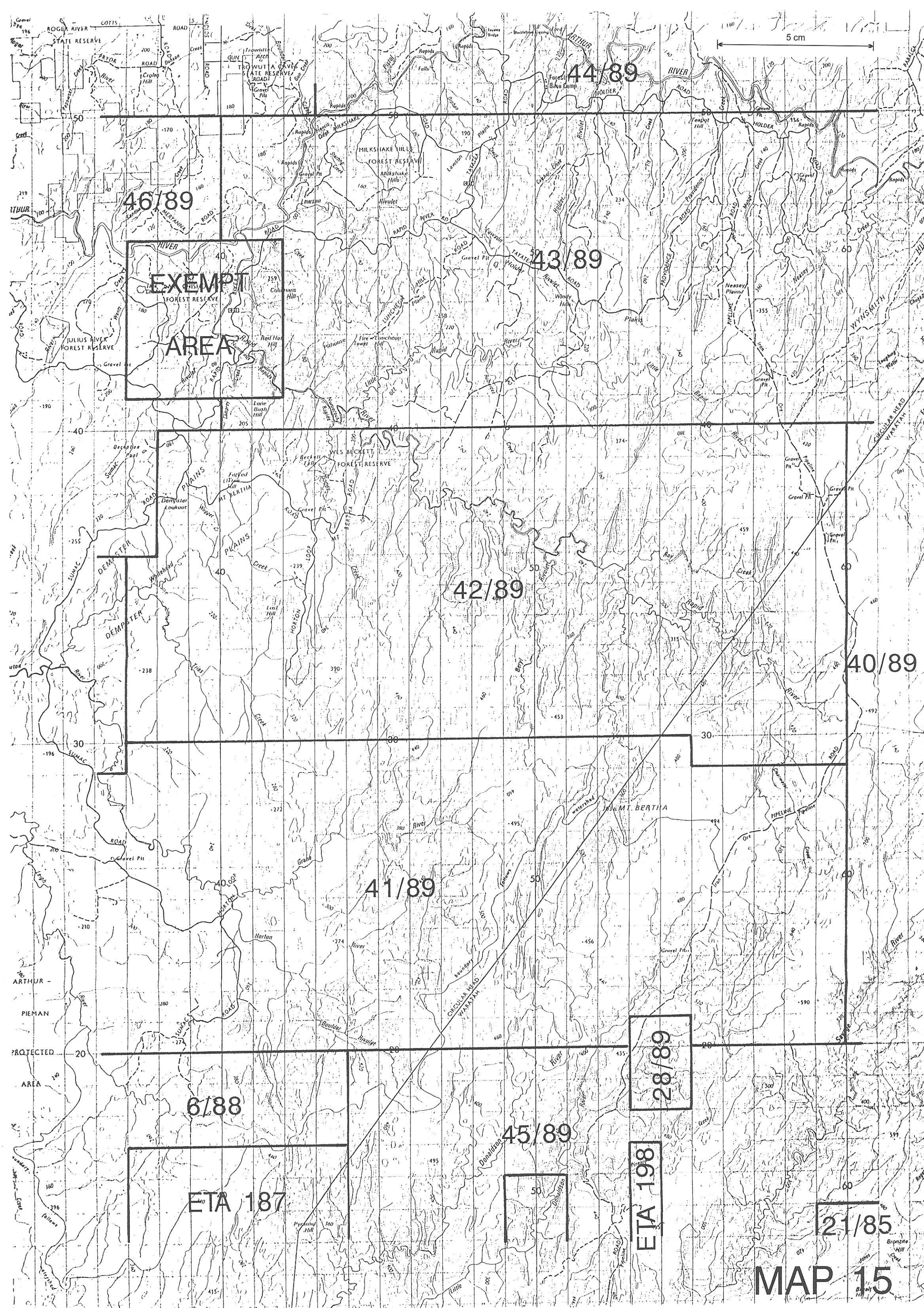
COMMENT

At 13.03.90 this EL contained 53 skm (estimate) of National Estate. Any activity in this area is subject to approval by the Joint Working Group. Work in rainforest elsewhere in the EL is to be carried out under established guidelines.

MAP 15



MAP 15



EXEMPT
AREA

ETA 187

28/89

50
Donalson

ETA 198

21/85

MAP 15

EXPLORATION LICENCE NO.	42/89
LOCATION	Rapid River
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	231
AREA OF RAINFOREST (km ²)	127
TOTAL EXPENDITURE TO DATE	\$18,612

PROGRAM 01.07.90 to 30.09.90
 Compilation of existing data.
 No impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$5,000
--	---------

COMMENT

At 13.03.90 this EL contained 139 skm (estimate) of National Estate. Any work in this area is subject to approval by the Joint Working Group. Work in rainforest elsewhere in the EL is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	44/89
LOCATION	Wedge Plains
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	250
AREA OF RAINFOREST (km ²)	113
TOTAL EXPENDITURE TO DATE	\$26,153

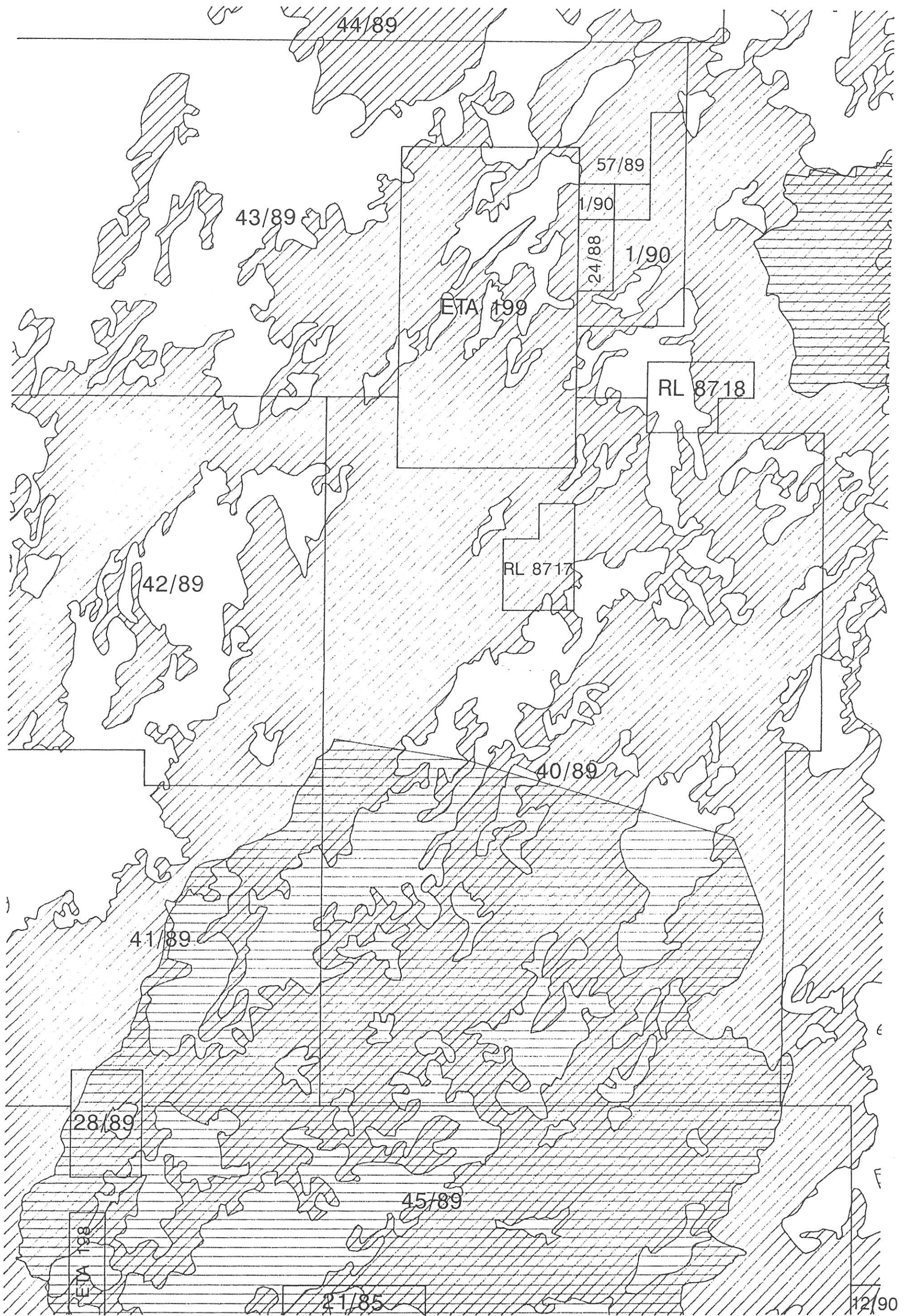
PROGRAM 01.07.90 to 30.09.90
 Compilation of existing data.
 No impact on rainforest.

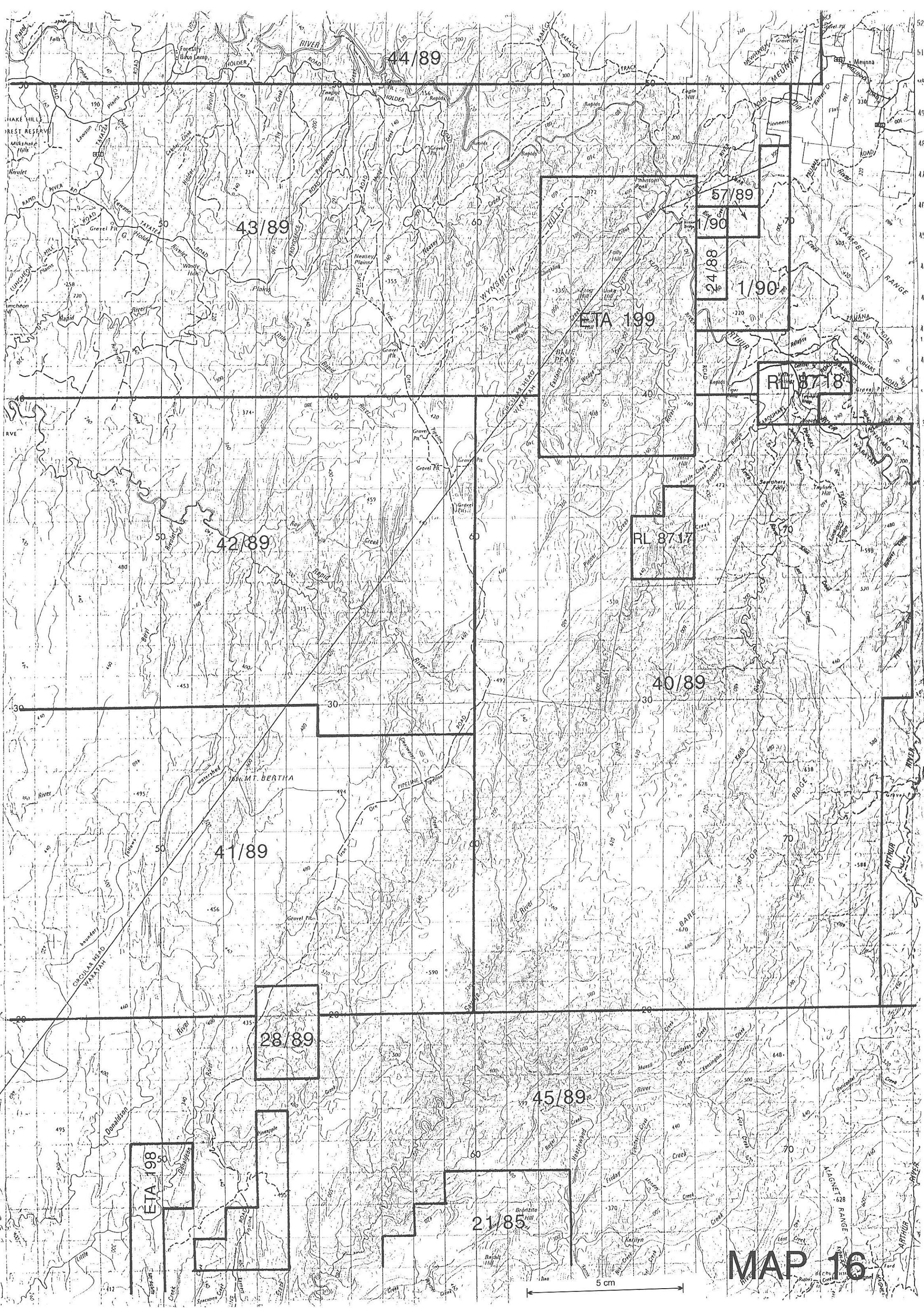
PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$3,000
--	---------

COMMENT

Work in rainforest is to be carried out under established guidelines.

MAP 16





MAP 16

EXPLORATION LICENCE NO.	24/88
LOCATION	Champion Road
TENEMENT HOLDER	Mineral Holdings Australia Pty Ltd
OPERATOR	Vic Threader and Associates Pty Ltd
TOTAL AREA (km ²)	2
AREA OF RAINFOREST (km ²)	2
TOTAL EXPENDITURE TO DATE	\$6,500

PROGRAM 01.07.90 to 30.09.90

Bulk sampling of silica flour by excavator using existing
Forestry roads.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$12,000
--	----------

COMMENT

Land status: State Forest.

The programme will be subject to the approval of the
Interdepartmental Working Group.

EXPLORATION LICENCE NO.	40/89
LOCATION	Keith River
TENEMENT HOLDER	Peko Exploration Ltd
OPERATOR	Peko Exploration Ltd
TOTAL AREA (km ²)	250
AREA OF RAINFOREST (km ²)	212
TOTAL EXPENDITURE TO DATE	\$17,166

PROGRAM 01.07.90 to 30.09.90
 Compilation of existing data.
 No impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$2,000
---	---------

COMMENT

At 13.03.90 this EL contained 238 skm (estimate) of National Estate. Any work in this area is subject to approval by the Joint Working Group. Work in rainforest elsewhere in the EL is to be carried out under established guidelines.

RETENTION LICENCES NO.	8718, 8717
LOCATION	Arthur River
TENEMENT HOLDER	CRA Exp. P/L & Mineral Holdings P/L
OPERATOR	CRA Exp. P/L
TOTAL AREA (km ²)	8718, 5 skm; 8717, 5 skm
AREA OF RAINFOREST (km ²)	8718, 2.5 skm; 8717, 5 skm
TOTAL EXPENDITURE TO DATE	On both RLs \$553,751

PROGRAM 01.07.90 to 30.09.90

CRA Exploration Pty Ltd will be concerning themselves with market research and joint venture negotiations.

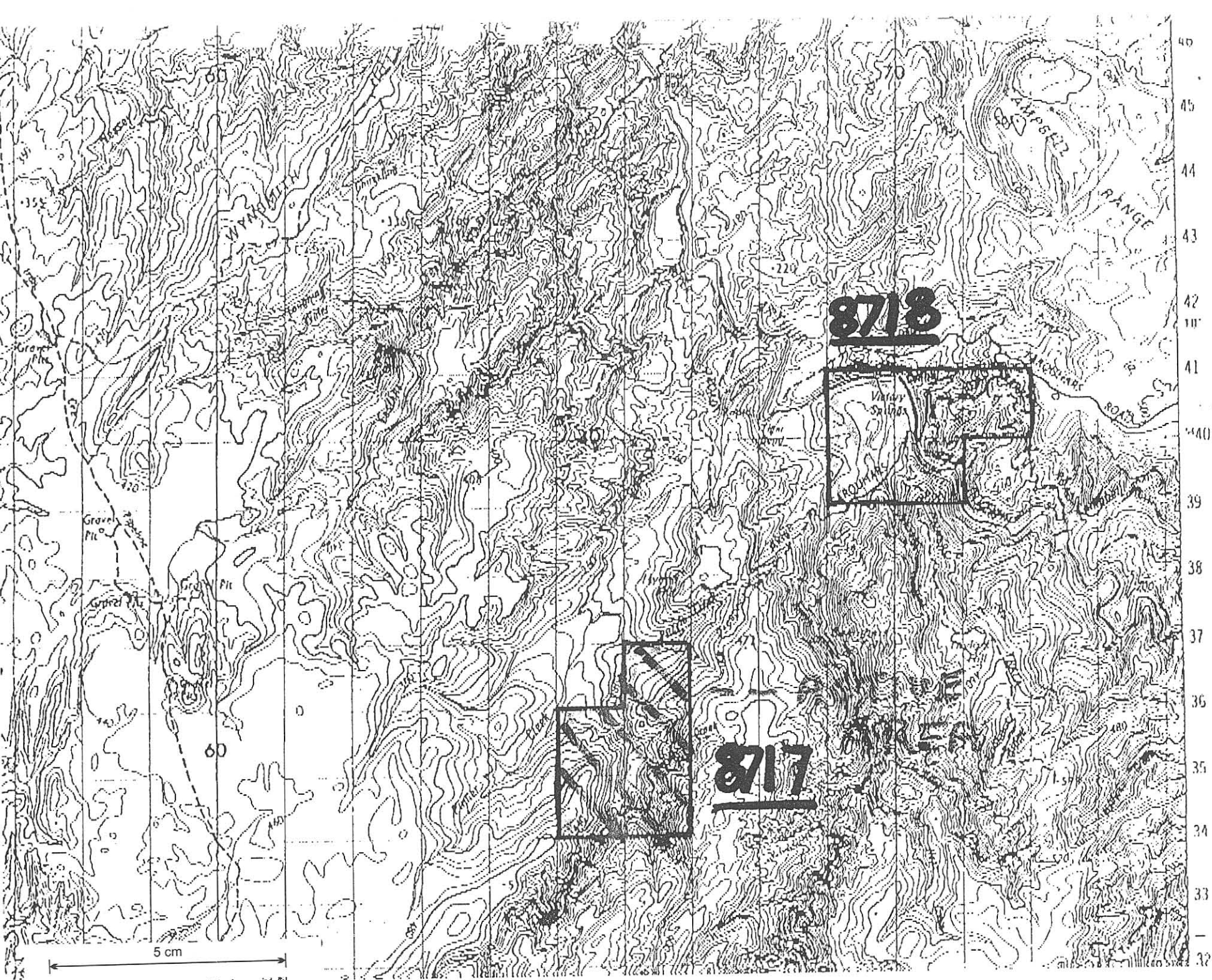
The next three months following should see an intensive drilling program carried out in the immediate target area.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$10,000
---	----------

COMMENT

Majority of expenditure will be on RL 8717.

RL 8718 is undergoing rehabilitation.



WEST TACONE 3 IN

EXPLORATION LICENCE NO.	57/89
LOCATION	Cann Creek
TENEMENT HOLDER	Mineral Holdings Australia Pty Ltd
OPERATOR	Vic Threader and Associates Pty Ltd
TOTAL AREA (km ²)	1
AREA OF RAINFOREST (km ²)	1
TOTAL EXPENDITURE TO DATE	Nil, Just issued.

PROGRAM 01.07.90 to 30.09.90
 No field activities planned during the quarter.

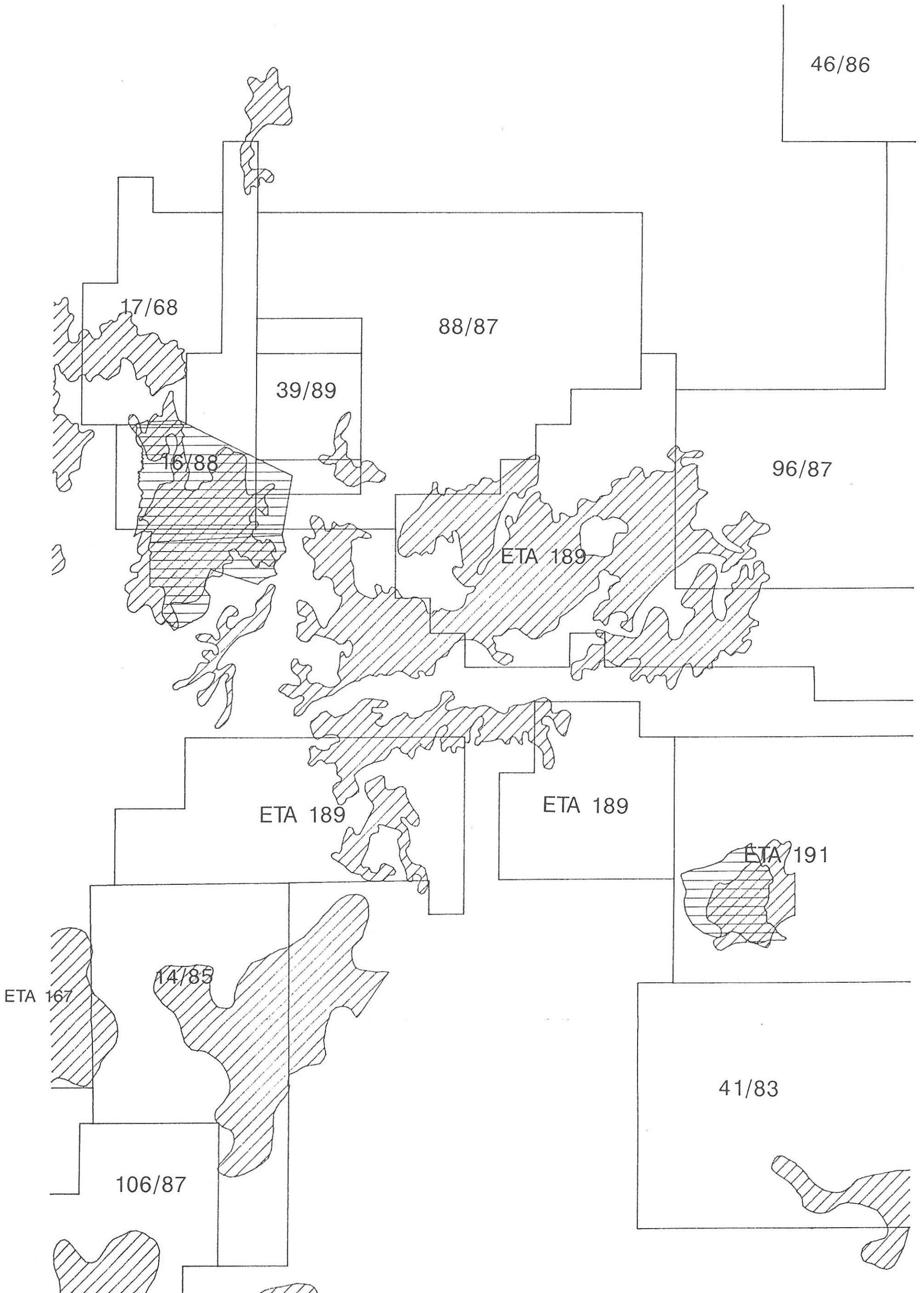
PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

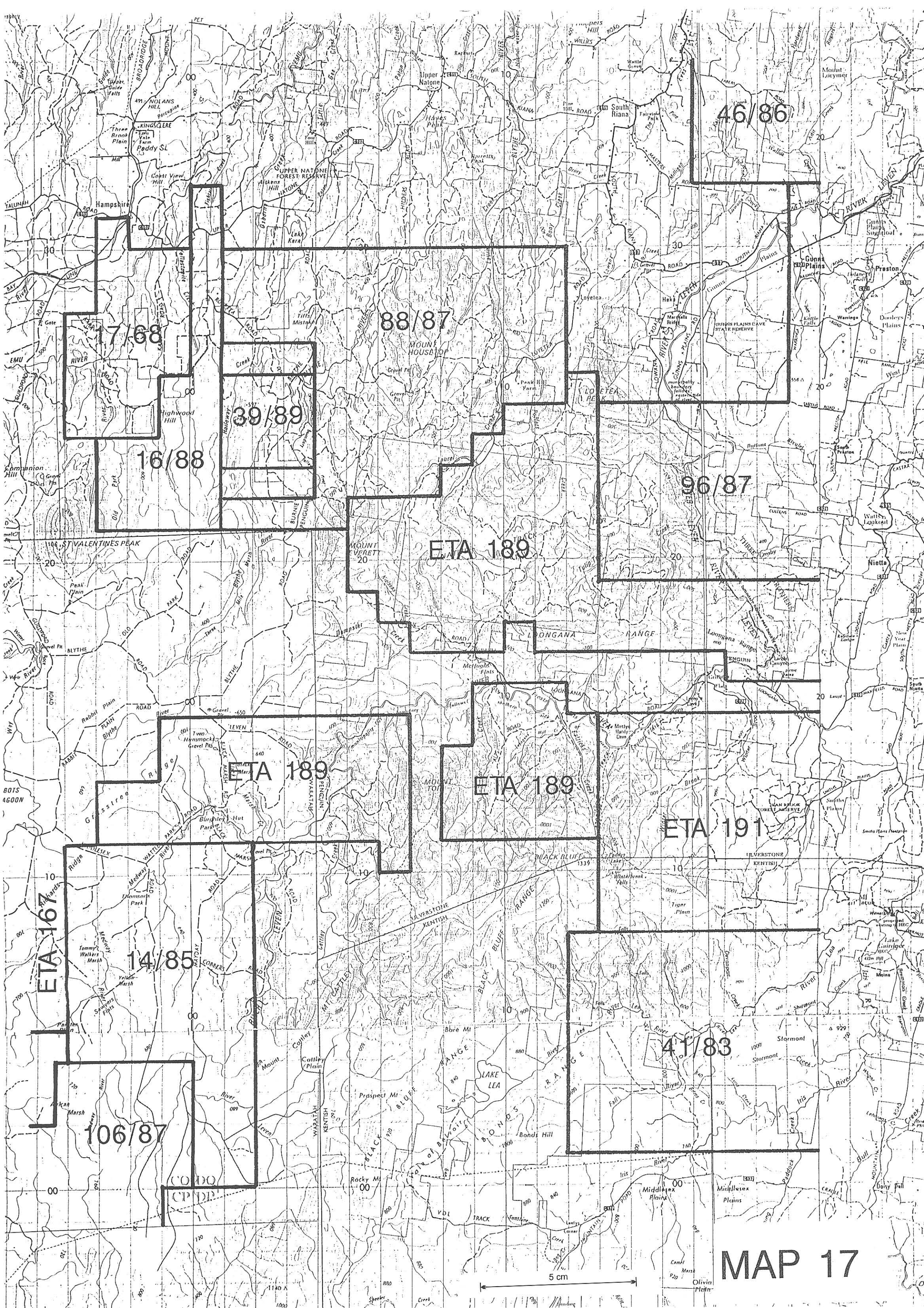
COMMENT

Land status: State Forest

Field activities are subject to discussion with District Forester.

MAP 17





46/86

88/87

17/68

39/89

16/88

96/87

ETA 189

ETA 189

ETA 189

ETA 191

ETA 167

14/85

106/87

41/83

MAP 17

5 cm

EXPLORATION LICENCE NO.	17/68
LOCATION	Emu River
TENEMENT HOLDER	Tasmania Mines Limited
OPERATOR	Tasmania Mines Limited
TOTAL AREA (km ²)	14
AREA OF RAINFOREST (km ²)	4
TOTAL EXPENDITURE TO DATE	\$88,439

PROGRAM 01.07.90 to 30.09.90

No exploration is to be undertaken in the belt of rainforest in the southern portion of this E.L. The ground is to be relinquished in the last quarter of 1990.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

COMMENT

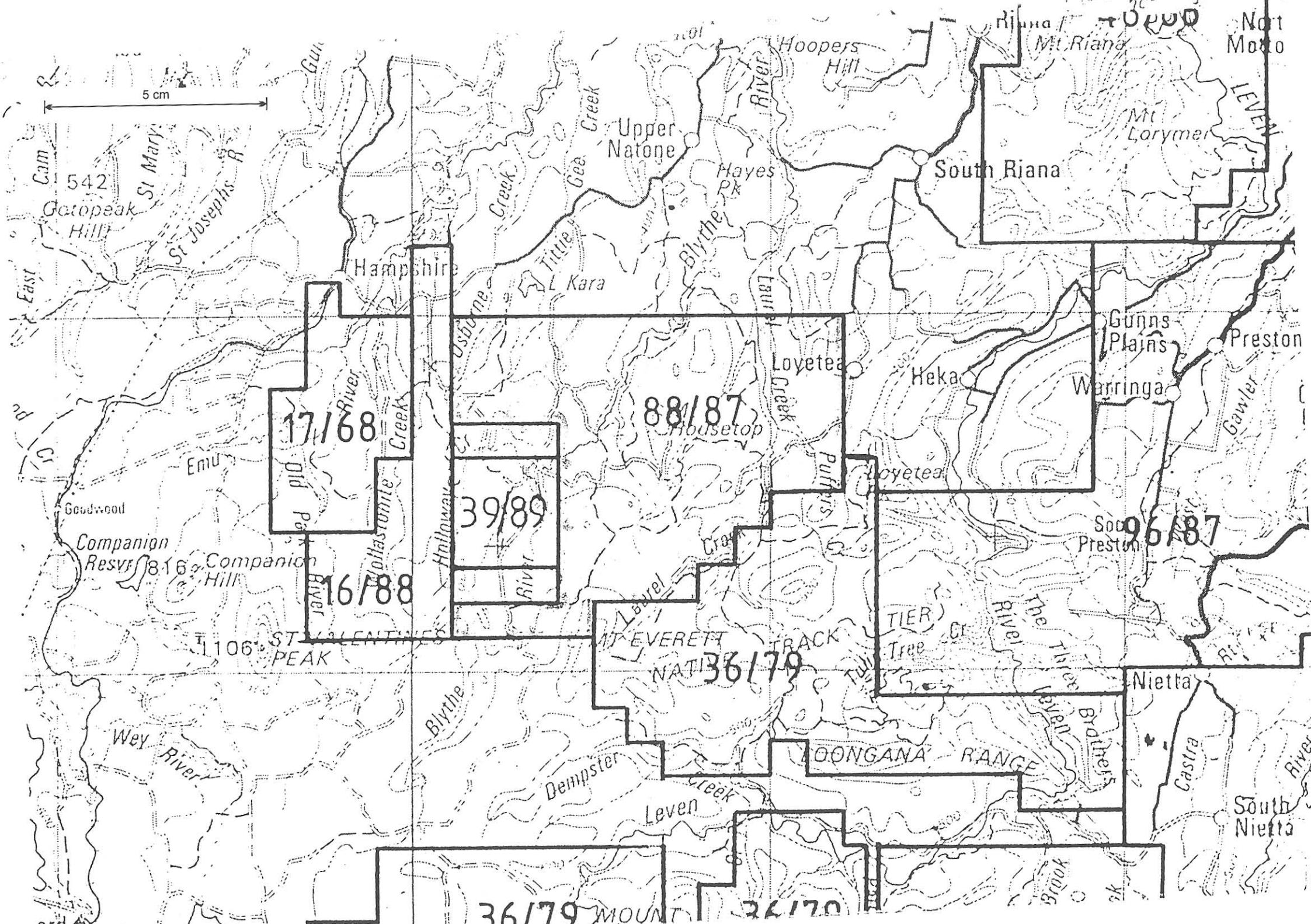
The area of this E.L. is covered by CL1371P/M and the Kara tungsten/mining operation. See Mining Section for further information.

EXPLORATION LICENCE NO.	88/87
LOCATION	Mt Housetop
TENEMENT HOLDER	Placer Exploration Ltd
OPERATOR	Placer Exploration Ltd
TOTAL AREA (km ²)	68
AREA OF RAINFOREST (km ²)	2
TOTAL EXPENDITURE TO DATE	\$89,103

PROGRAM 01.07.90 to 30.09.90
 Proposed for relinquishment.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	Nil
---	-----

COMMENT



EXPLORATION LICENCE NO.	16/88
LOCATION	Highwood Hill - East Kara
TENEMENT HOLDER	Tasmania Mines Limited
OPERATOR	Tasmania Mines Limited
TOTAL AREA (km ²)	22
AREA OF RAINFOREST (km ²)	13
TOTAL EXPENDITURE TO DATE	\$23,276

PROGRAM 01.07.90 to 30.09.90

No further exploration is proposed within the rainforest in the southern portion of the E.L.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 Nil

COMMENT

Not in National Estate.

Land Tenure: Private Property, Crown Land

EXPLORATION LICENCE NO.	39/89
LOCATION	Blythe River
TENEMENT HOLDER	Tasmania Mines Limited
OPERATOR	As above
TOTAL AREA (km ²)	9
AREA OF RAINFOREST (km ²)	1
TOTAL EXPENDITURE TO DATE	\$1,360

PROGRAM 01.07.90 to 30.09.90

Detailed investigations are to be completed at the Kara No. 2 southern magnetite skarn zone. Proposed work includes percussion drilling, geologic mapping, ground magnetometer survey, 200 tonne bulk sample extraction and treatment through Kara No. 1 mill (approval to be sought). Total expenditure (to 31.12.90) - \$32,100. Personnel involved 6 - 8 people.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90

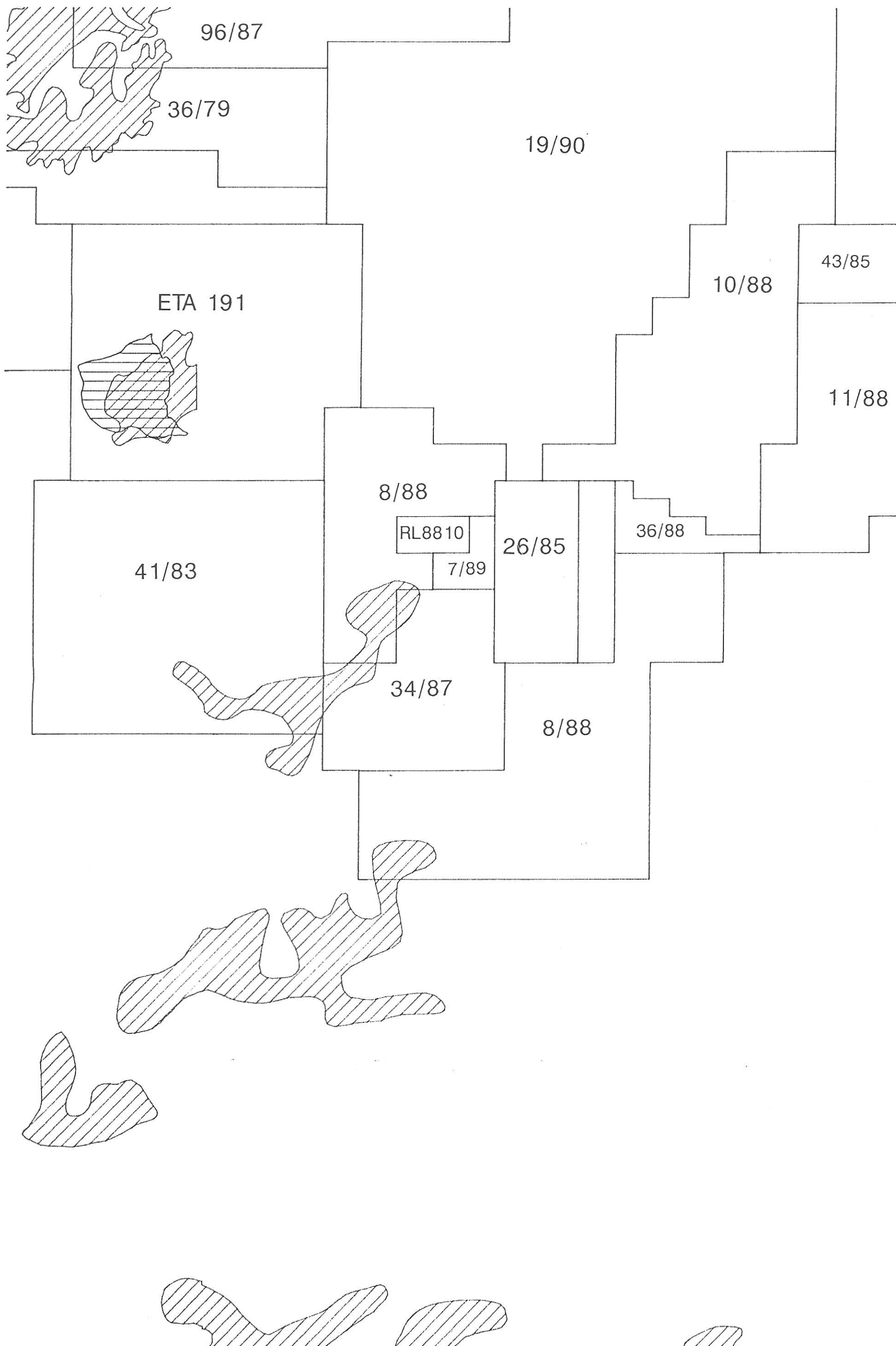
~ \$16,000

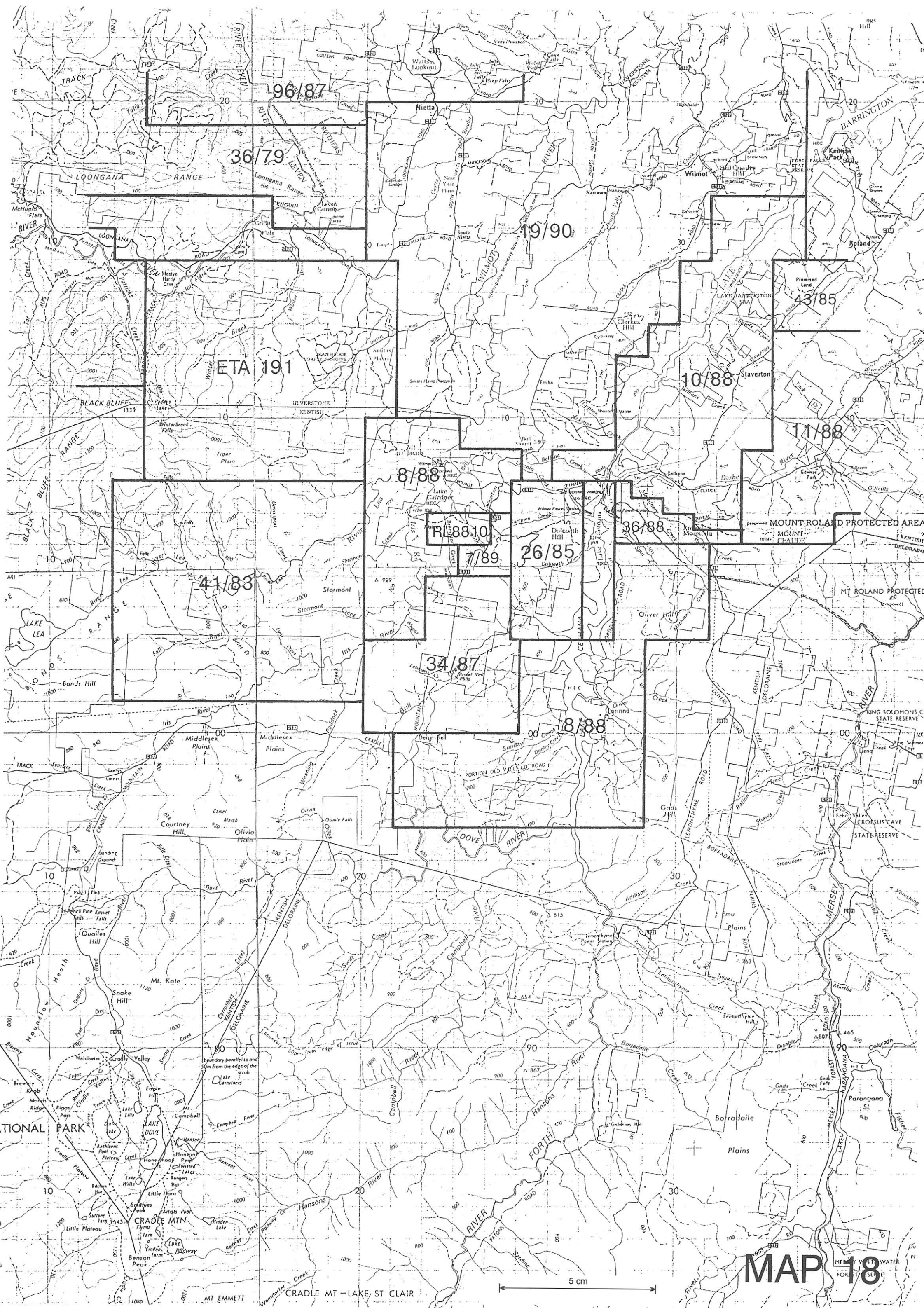
(assuming 50% of work for July - December will be done in this quarter)

COMMENT

There is to be no exploration within a small belt of rain forest along the Blythe River, from 1 July 1990 to 30 September 1990.

MAP 18





96/87

36/79

19/90

43/85

ETA 191

10/88

11/88

8/88

RL88/10

26/85

36/88

41/83

34/87

8/88

NATIONAL PARK

MAP 18

5 cm

CRADLE MT - LAKE ST CLAIR

EXPLORATION LICENCE NO.	41/83
LOCATION	Moina
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	56
AREA OF RAINFOREST (km ²)	6
TOTAL EXPENDITURE TO DATE	\$470,831

PROGRAM 01.07.90 to 30.09.90

Collation and evaluation of exploration data collected during 1989-90.

Rehabilitation.

No impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$15,500
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COMMENT

Work in rainforest is to be carried out under established guidelines.

EXPLORATION LICENCE NO.	34/87
LOCATION	Bull Creek
TENEMENT HOLDER	CRA Exploration Pty Ltd
OPERATOR	RGC Exploration Ltd
TOTAL AREA (km ²)	21
AREA OF RAINFOREST (km ²)	2
TOTAL EXPENDITURE TO DATE	\$42,728

PROGRAM 01.07.90 to 30.09.90

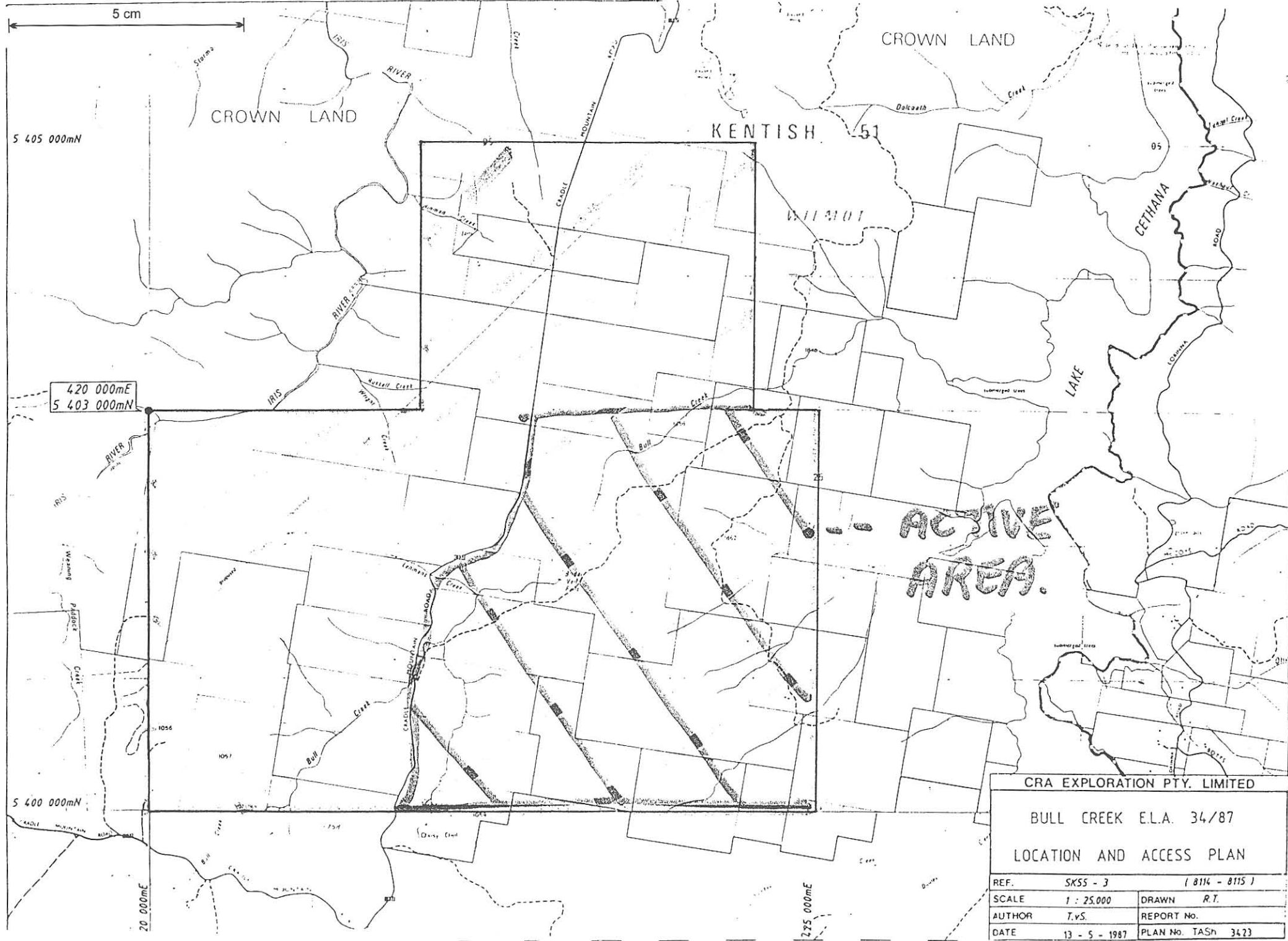
RGC propose to continue evaluation of previous quarters exploration data.

The program consisted of mapping, rock chip sampling and further evaluation of previous aeromagnetic and gravity surveys.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$11,500
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COMMENT

Access is via existing tracks and walking.
Exploration techniques are low impacting.



CRA EXPLORATION PTY. LIMITED

BULL CREEK E.L.A. 34/87

LOCATION AND ACCESS PLAN

REF.	SK55 - 3	(8114 - 8115)
SCALE	1 : 25,000	DRAWN R.T.
AUTHOR	T.V.S.	REPORT No.
DATE	13 - 5 - 1987	PLAN No. TASH 3423

EXPLORATION LICENCE NO.	96/87
LOCATION	Preston
TENEMENT HOLDER	Electrolytic Zinc Co. of A'asia Ltd
OPERATOR	Geopeko
TOTAL AREA (km ²)	118
AREA OF RAINFOREST (km ²)	~ 5
TOTAL EXPENDITURE TO DATE	\$181,821 (to 31.03.90)

PROGRAM 01.07.90 to 30.09.90

Reassess all previous data for potential major base metal targets. Detailed mapping, sampling and stable isotope studies of Castra Road Alteration Zone.

Follow-up mapping, sampling anomalous soil samples in Loyetee South area.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$20,000
---	----------

COMMENT

Approximately 2% of area has been listed in the National Estate. Therefore, any exploration programme in this part of the EL will be subject to approval by the Interdepartmental Working Group.

EXPLORATION LICENCE NO.	8/88
LOCATION	Lorinna
TENEMENT HOLDER	RGC Exploration Pty Ltd
OPERATOR	RGC Exploration Pty Ltd
TOTAL AREA (km ²)	55
AREA OF RAINFOREST (km ²)	3
TOTAL EXPENDITURE TO DATE	\$262,174

PROGRAM 01.07.90 to 30.09.90

Collation and evaluation of existing data.

Rehabilitation.

Nil impact on rainforest.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$15,250
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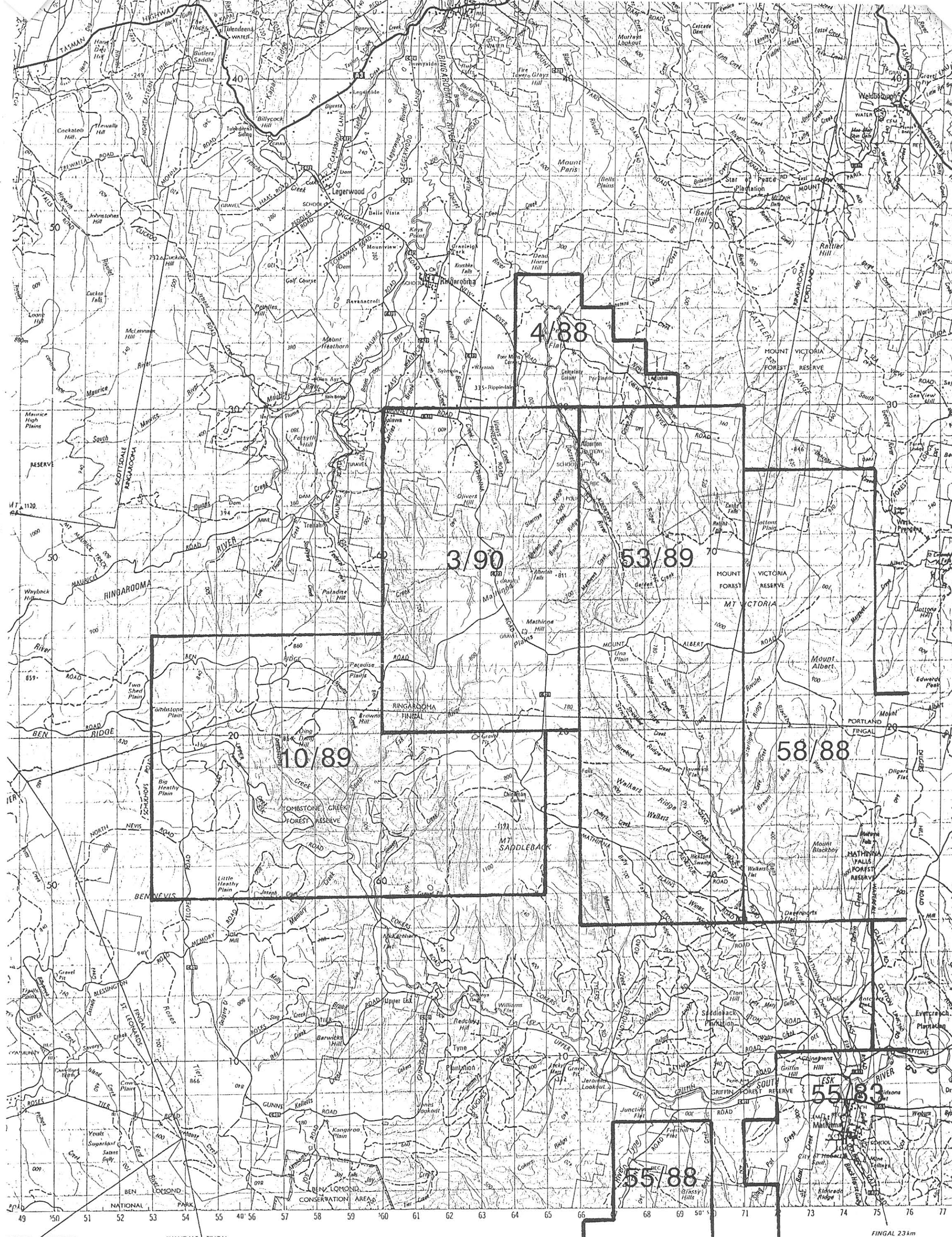
COMMENT

Work in rainforest is to be carried out under established guidelines.

MAP 19



MAP 19



Non-nomenclature
rental position
33
state a public
errors and
1001

5 cm

CHARDS EVANDALE EVANDALE FINGAL

SCALE 1: 100 000

Kilometres 2 1 0 2 4 6 8 10 12 Kilometres

1 centimetre represents 1 kilometre

BLACK NUMBERED GRID LINES ARE 1000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 55
GRID VALUES ARE SHOWN IN FULL ONLY AT THE SOUTH WEST CORNER OF THE MAP

LAND TENURE INDEX INFORMATION has been compiled by the Lands Department with assistance from the Forestry Commission. Land tenure is current to Oct 1983. Due to limitations of scale, some small areas of land tenure within built-up areas or of less than two hectares are not depicted. Indication of a particular

MAP 19

EXPLORATION LICENCE NO.	10/89
LOCATION	Mt Saddle Back
TENEMENT HOLDER	Placer Exploration Ltd
OPERATOR	Placer Exploration Ltd
TOTAL AREA (km ²)	77
AREA OF RAINFOREST (km ²)	± 30
TOTAL EXPENDITURE TO DATE	\$11,497

PROGRAM 01.07.90 to 30.09.90

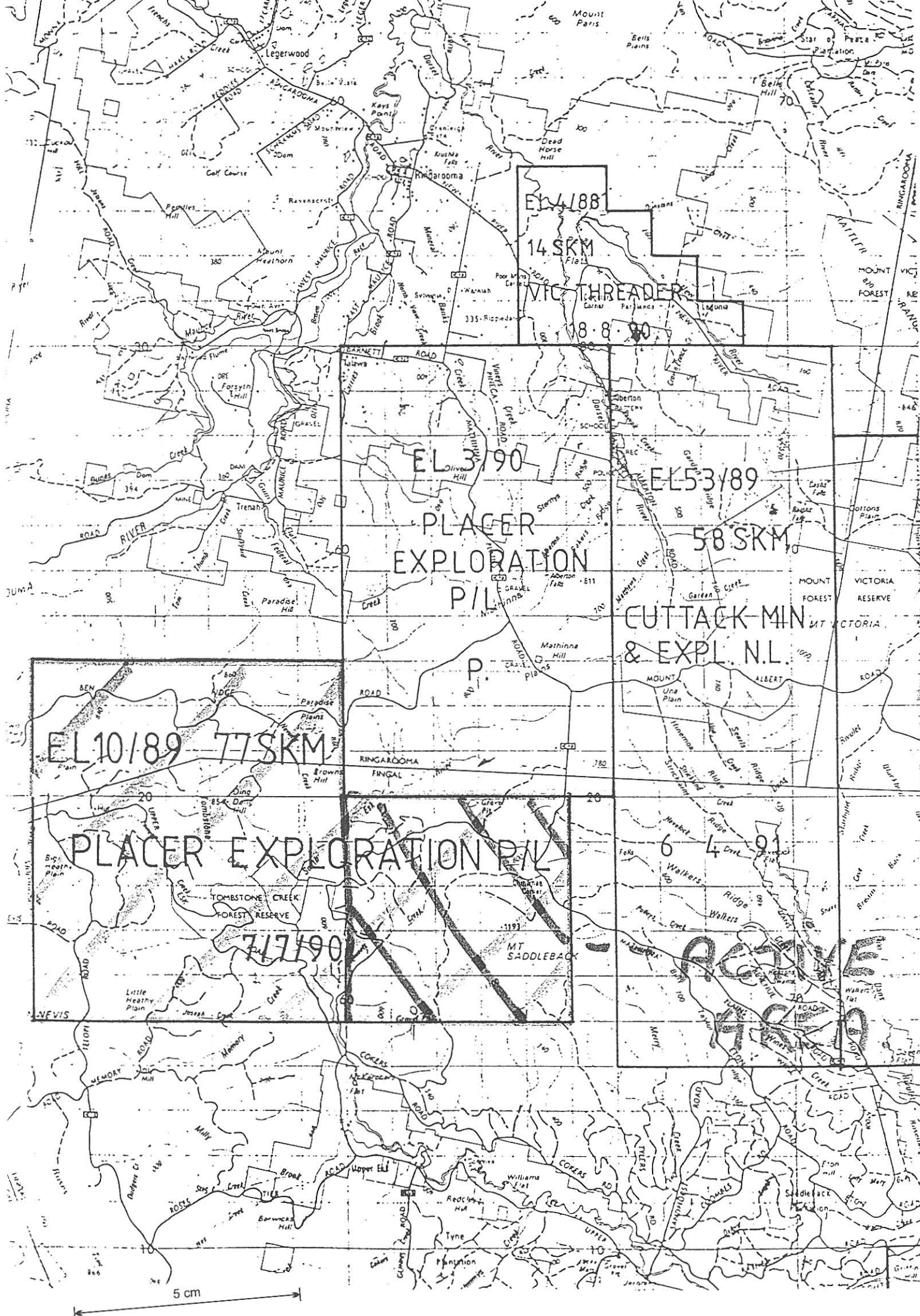
Previous exploration has defined an area of anomalous gold geochemistry. It is proposed to grid the area and traverse it with soil geochemistry (hand auger sampling)

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$12,000
	for gridding

COMMENT

This licence contains National Estate areas and therefore goes to the Interdepartmental Working Group.

Exploration techniques are minimal impact.



EL 4/88
14 SKM
VIC THREADER
18.8.90

EL 3/90
PLACER
EXPLORATION
PIL

EL 53/89
58 SKM
CUTTACK MIN
& EXPL N.L.

EL 10/89 77 SKM

PLACER EXPLORATION PIL

EL 7/7/90

ACTIVE
7/7/90

5 cm

EXPLORATION LICENCE NO.	3/90
LOCATION	Talawa
TENEMENT HOLDER	Placer Exploration Ltd
OPERATOR	Placer Exploration Ltd
TOTAL AREA (km ²)	59
AREA OF RAINFOREST (km ²)	± 30
TOTAL EXPENDITURE TO DATE	Nil

PROGRAM 01.07.90 to 30.09.90

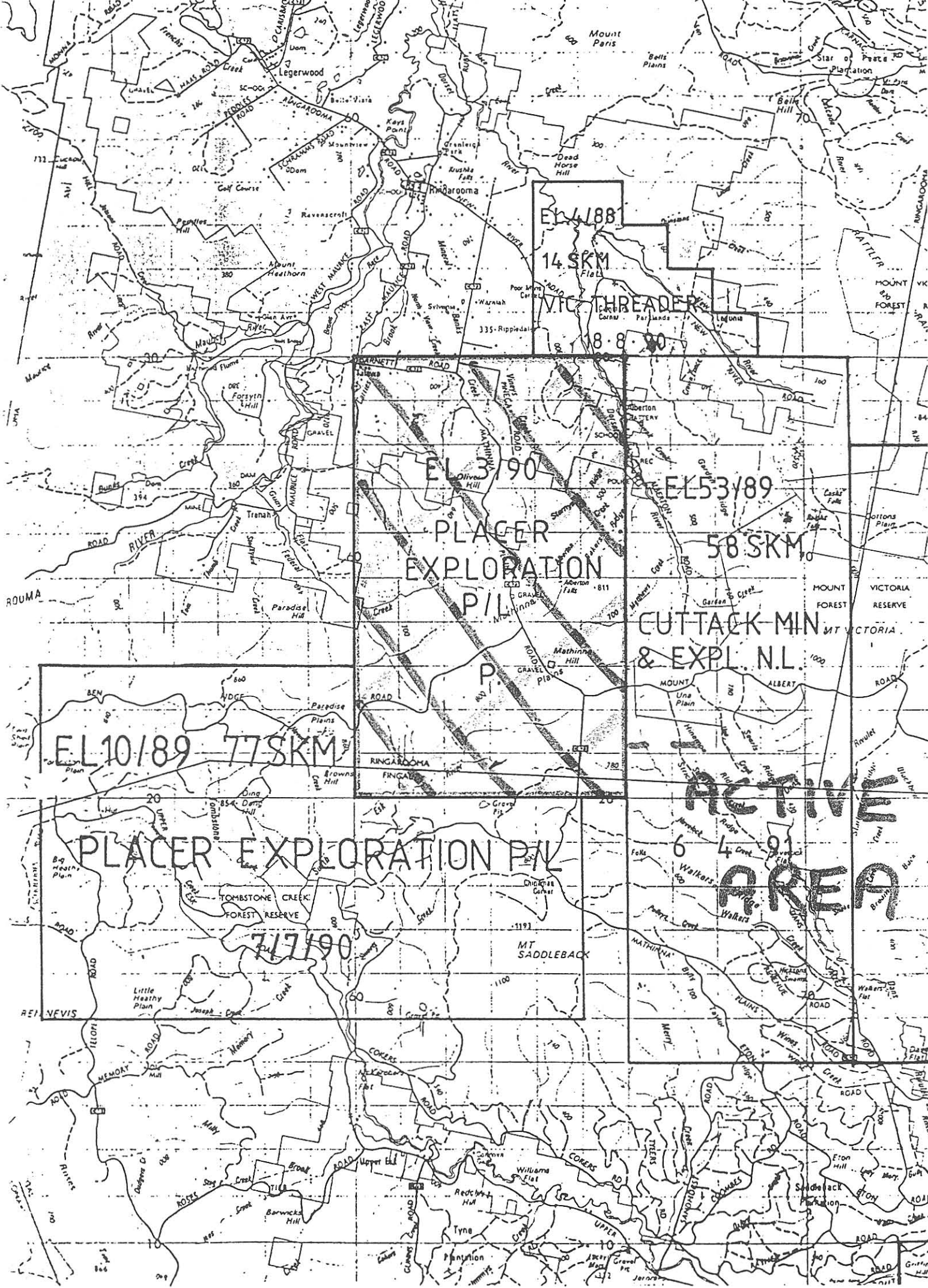
Placer propose to undertake a regional bulk stream sediment sampling program in the 1 kg to 5 kg category along all drainage systems.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90 \$10,000 for sampling.

COMMENT

Access will be along existing tracks and then walking along streamways.

Exploration technique is very low impact.



EL 4/88

14 SKM

VIC THREADER

18.8.80

EL 3/90

PLACER
EXPLORATION
P/L

EL 53/89

58 SKM

CUTTACK MIN
& EXPL. N.L.

EL 10/89

77 SKM

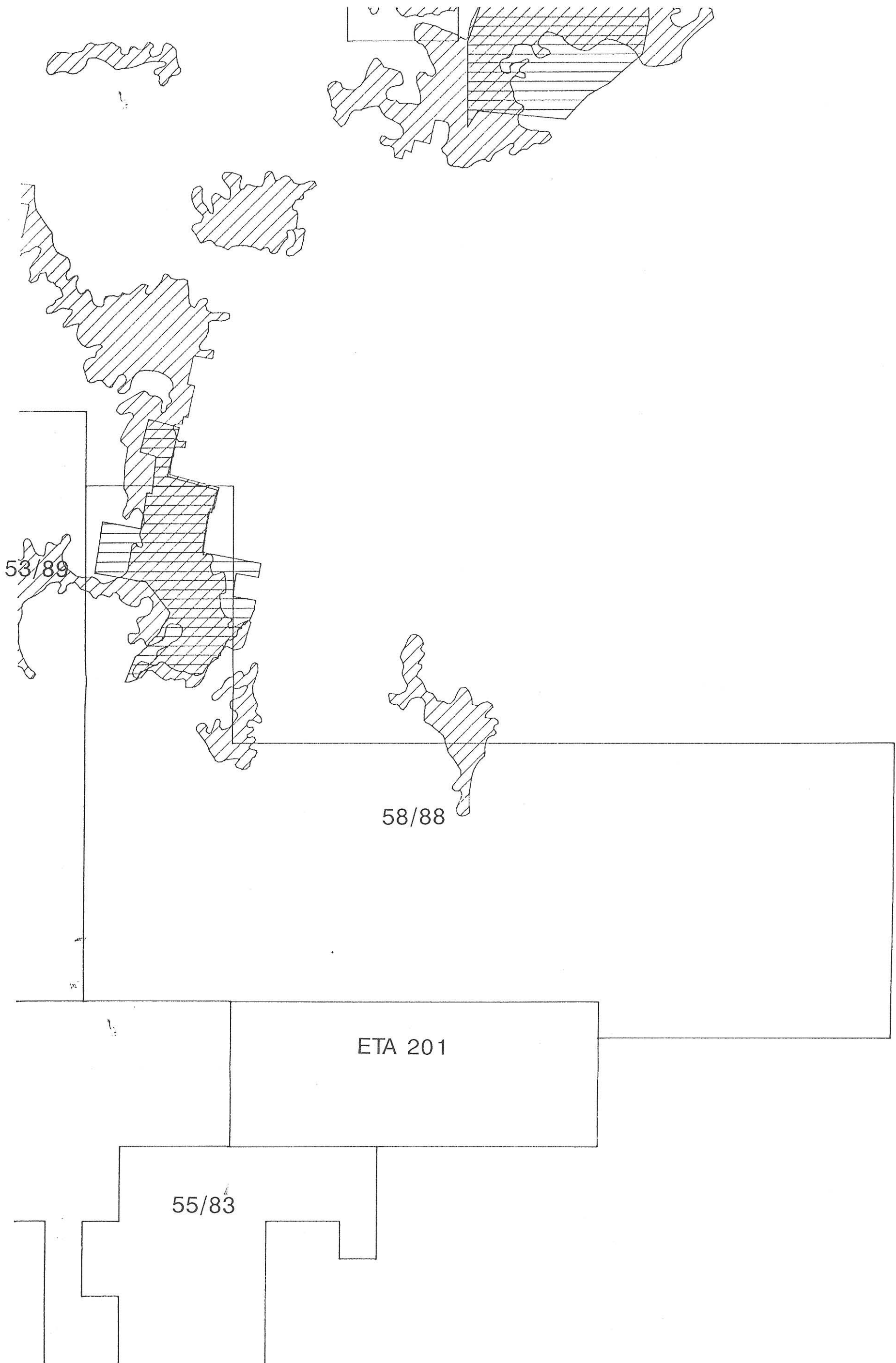
PLACER EXPLORATION P/L

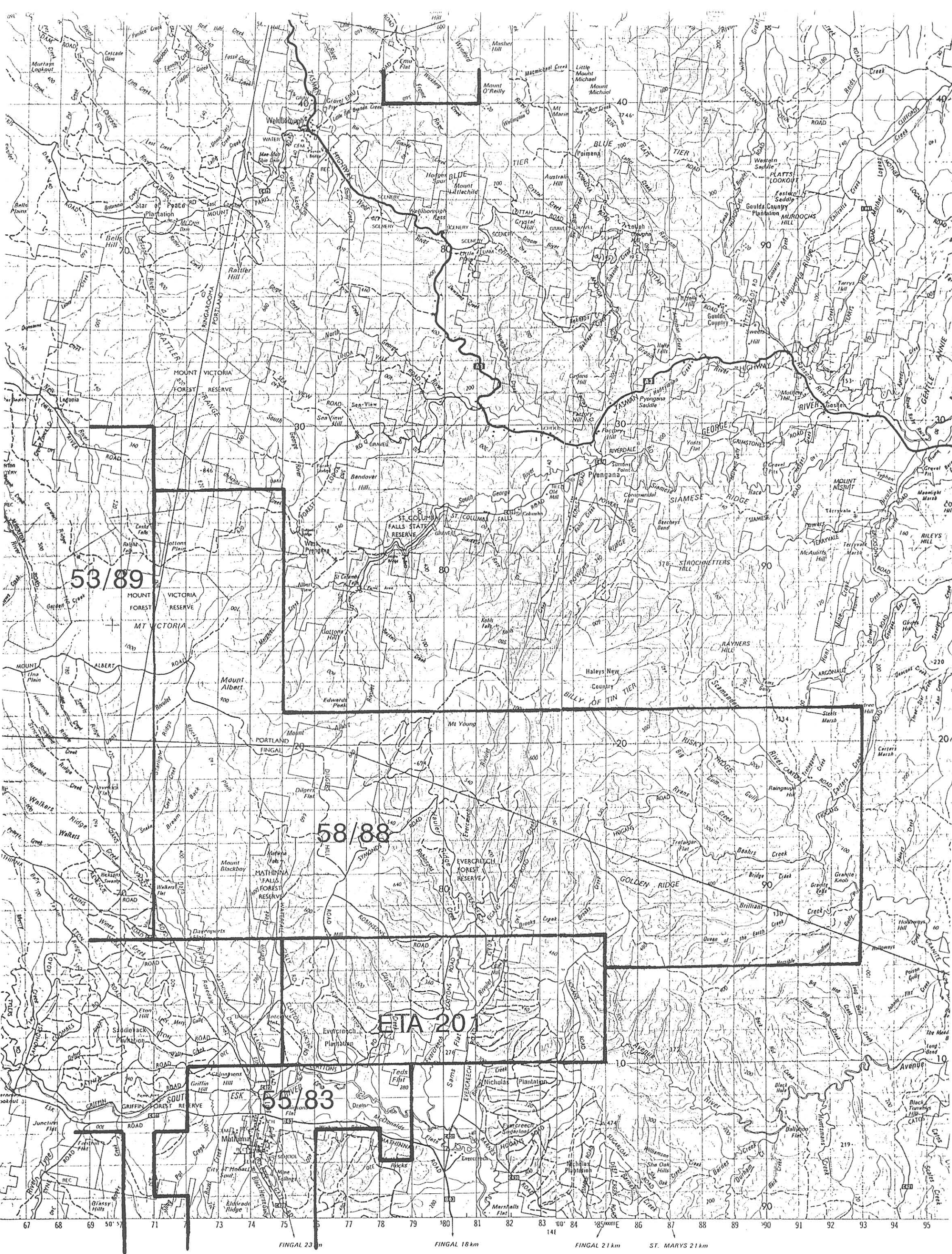
EL 7/7/90

ACTIVE
AREA

5 cm

MAP 20





EXPLORATION LICENCE NO.	58/88
LOCATION	Golden Ridge
TENEMENT HOLDER	Federation Resources NL + 2 others
OPERATOR	Billiton Australia
TOTAL AREA (km ²)	189
AREA OF RAINFOREST (km ²)	± 20
TOTAL EXPENDITURE TO DATE	\$85,690

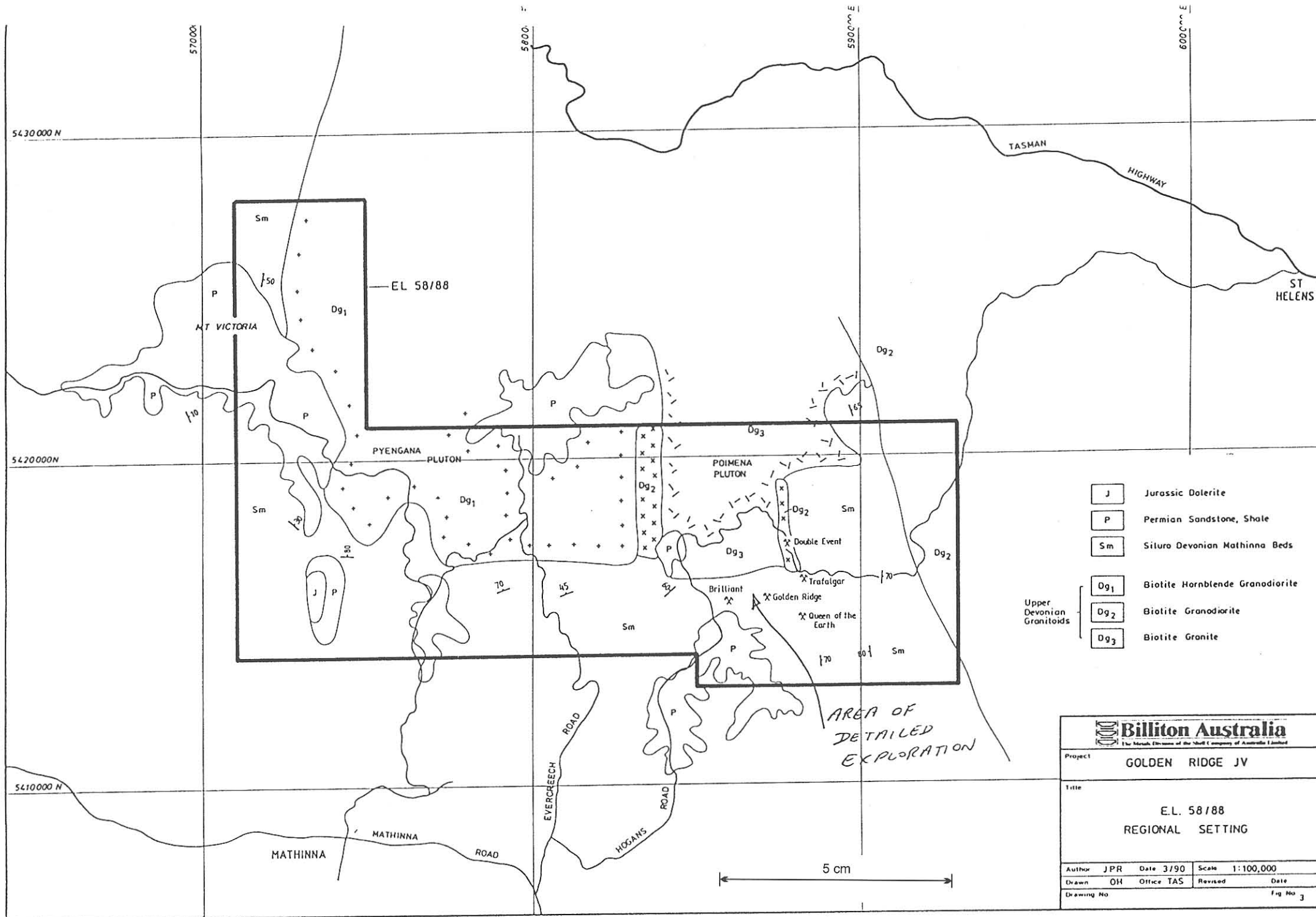
PROGRAM 01.07.90 to 30.09.90

A comprehensive program of gridding, soil sampling, costeaning and reverse circulation drilling will be carried out on specific prospects in the Golden Ridge area.
See attached Billiton map.

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$86,000
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COMMENT

Most of the licence is covered by dry sclerophyll forest with wet sclerophyll forest in the creeks. Rainforest is restricted to the north and north west of the E.L. The proposed program will not affect the areas of rainforest.



Billiton Australia			
The Mineral Division of the Shell Company of Australia Limited			
Project	GOLDEN RIDGE JV		
Title	E.L. 58/88 REGIONAL SETTING		
Author	JPR	Date	3/90
Scale	1:100,000		
Drawn	OH	Office	TAS
Revised	Date		
Drawing No	Fig No 3		

EXPLORATION LICENCE NO.	4/85
LOCATION	Adamsfield
TENEMENT HOLDER	Metals Exploration Pty Ltd
OPERATOR	Juka Mine Management
TOTAL AREA (km ²)	112
AREA OF RAINFOREST (km ²)	11
TOTAL EXPENDITURE TO DATE	\$926,155 (to Q2 '89)

PROGRAM 01.07.90 to 30.09.90
 Seeking joint venture partner
 Rehabilitation trails

PROPOSED EXPENDITURE 01.07.90 to 30.09.90	\$2,000
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COMMENT

The entire EL lies within national estate.
 Part of the EL lies within the nominated World Heritage Area, but mineral exploration is an allowable activity, subject to Interdepartmental Working Group approval.