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ANNUAL REPORT

EXPLORATION LICENCE 57/83

MT. DONALDSON

TASMANIA

OPEN FILE

88-2887

H. D. NOLAN
DECEMBER 1988

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INTRODUCTION

The Mt. Donaldson E.L. covers an area of 28 skm south west of Savage River in Western Tasmania. Access to the area is limited to the summer months when logging tracks can be used to reach the south east portion with helicopter transport needed to access the balance of the E.L. This year 1988, access has been particularly difficult with heavier than usual summer rains frequently flooding the Savage River crossing. Winter flooding actually damaged the log crossing rendering it unusable.

EXPLORATION CONDUCTED

Due to the difficult access and priority given the the 'Brookside Gold Prospect' in adjacent Exploration Licences 35/85 and 37/82 minimal work has been conducted on this licence during the past year.

SILICA FLOUR

Previous exploration and research outlined in the 1986 annual report (Large 1987) identified areas having the potential to host silica flour deposits (see figure 2). Further ground traversing of the high potential area within E.L. 57/83 has been conducted during this period. Although silica flour occurs within the delineated area all sightings to date have been visibly contaminated through the intrusion of Tertiary material.

GOLD

Work carried out in the nearby 'Brookside Gold Prospect' has demonstrated that anomalous gold (plus copper and arsenic) occur along the contact between Corinna dolomite and stratigraphically adjacent mudstone which are part of the Bernafai Volcanic formation.

Similar stratigraphic contacts of the Savage dolomite with mudstones of the Bernafai Volcanics occur within the southern part of E.L. 57/83.

GOLD (Cont)

The investigation of these contacts commenced with stream sediment and panned concentrate sampling of drainage considered to cross these contacts. However in the course of sampling it became evident that the geology was more complex than to date interpreted and also evident that the influence of the heavy Tertiary gravel cover through-out the area will be detrimental to effective stream sampling.

Five stream sediment samples have been taken and subjected to microscope examination. In all samples, the Tertiary gravel heavy mineral suite was found to be dominant with only occasional and a minor presence of minerals which could be considered of local derivation. As such, these samples have been treated as unreliable.

It is proposed that more detailed geological mapping be carried out. This will be followed by a more selective and thorough stream sampling programme.

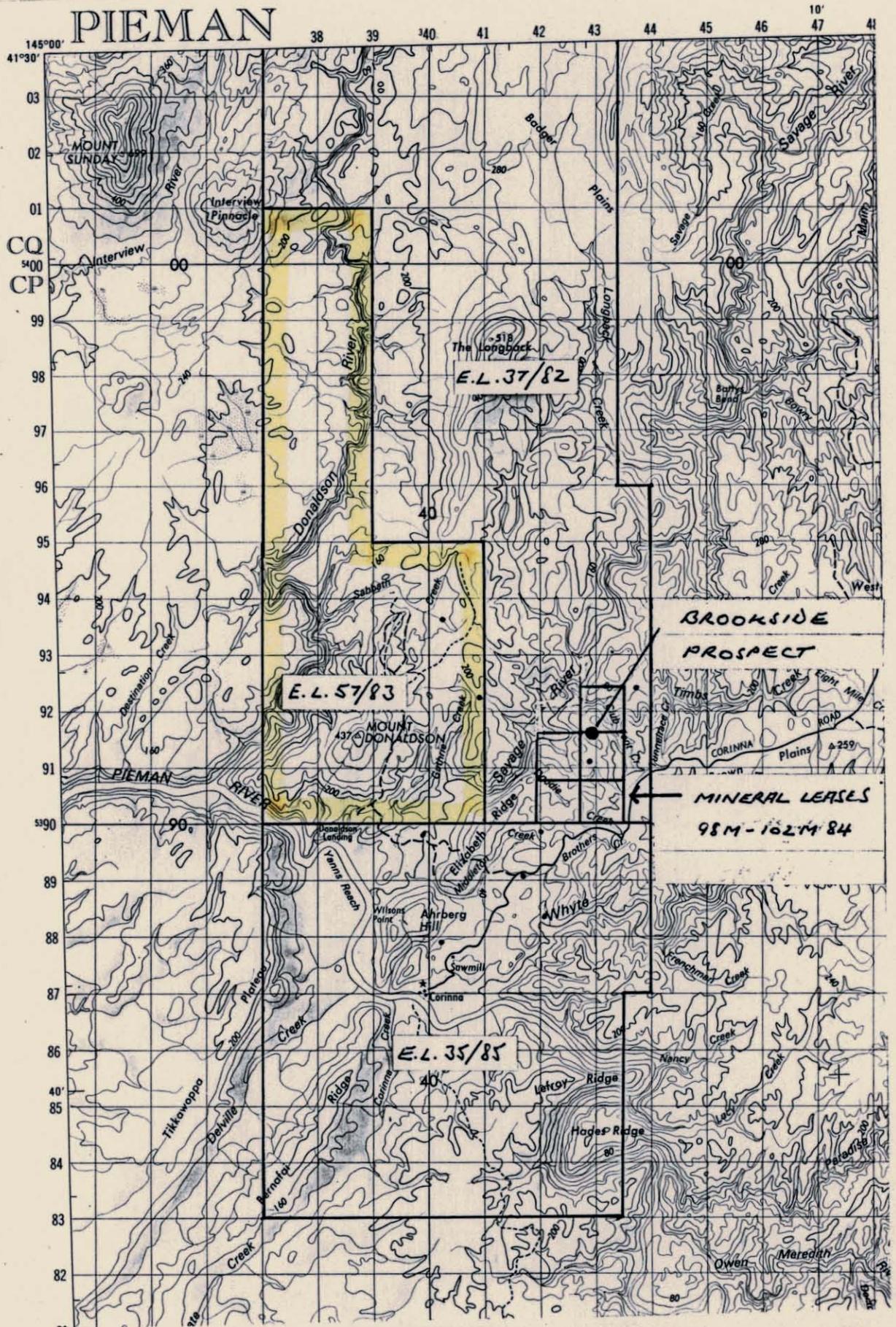
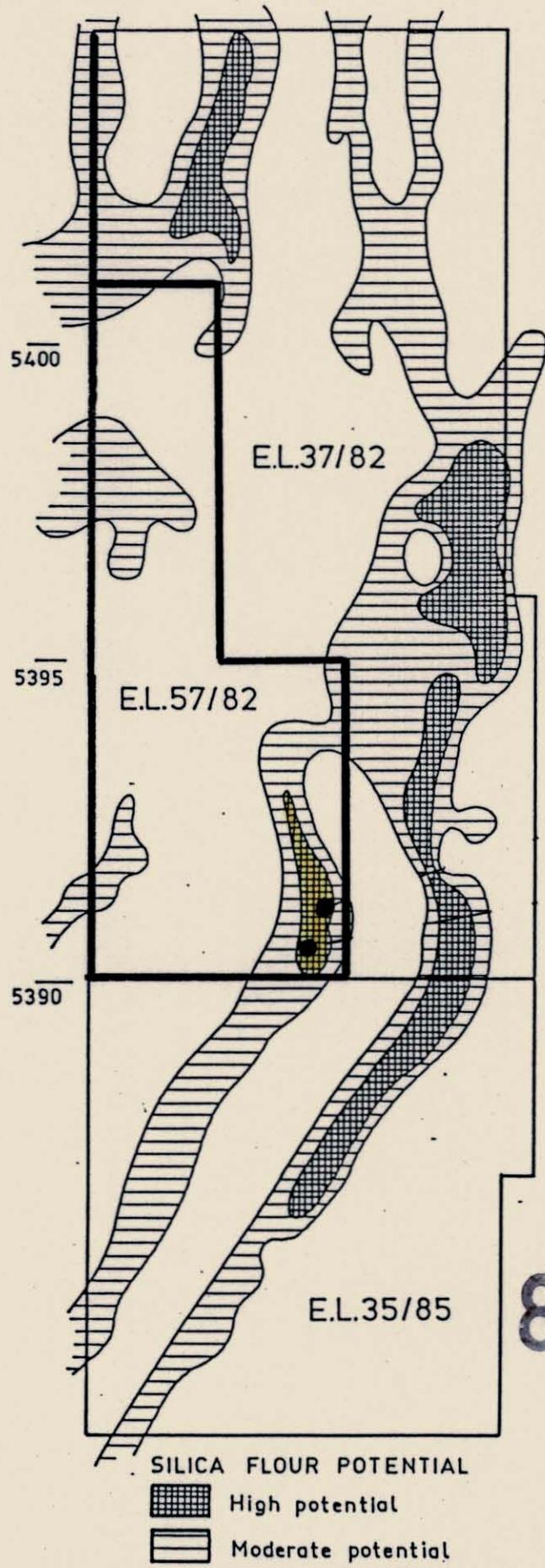


Figure 1) Locality map showing Corinna district and E.L's 37/82, 57/83 and 35/85. (1 : 100,000)



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Figure 2. Aeromagnetic lows in E.L.s 37/82, 57/83 and 35/85 indicating areas of good potential for dolomite bedrock and silica flour deposits.

EXPLORATION LICENCE 57/83
MT DONALDSON

(DATA SUPPLEMENTARY TO ANNUAL REPORT DEC 1988)

MICROSCOPE EXAMINATION OF FIVE
PANNED CONCENTRATE SAMPLES
GUTHRIE CREEK MT DONALDSON

Tertiary gravels hosting ilmanite, chromite, cassiterite, tourmaline and spinels etc, occur through out the area sampled. This heavy mineral suite dominates all five samples examined.

EXAMINATION PROCEDURE

All samples were dried and scanned in total. The samples, which averaged 10 grams were then panned down to a concentrate of approximately 2 grams and dried for a more detailed examination.

Examination was carried out using an Olympus 10-40X zoom binocular microscope.

SAMPLE - DPC101

Predominantly tertiary gravel heavy mineral suite accompanied by locally derived magnetite, hematite epidote, fine silica and minor, although above average quantity of iron, chalco and arseno pyrite.

Four grains of gold, One grain being well water worn, flattened and rich in colour consistent with tertiary gravel gold. The other three grains less rich in colour and less water worn. Their original angular form still evident although rounded on external exposed surfaces. Whilst not chrystalline, their form and colour and the accompanying sulphides suggest these grains may be of local derivation.

SAMPLE DPC 102

Predominantly tertiary gravel heavy mineral suite accompanied by a minor quantity of very fine iron pyrite.

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Three grains of gold, Two being of tertiary gravel style, The third being very fine, slightly less rich in colour displaying angular form where intergrown with small quartz particle and water worn on exposed surfaces.

SAMPLE DPC 103

Predominately tertiary gravel heavy mineral suite accompanied by minor quantities of fine magnetite, hematite and epidote of local derivation.

Seven very fine grains of gold. Each being flattened, water worn and rich in colour. Consistent with tertiary gravel gold.

SAMPLE DPC 104

Predominately tertiary gravel heavy mineral suite accompanied by magnetite, hematite and epidote of local derivation.

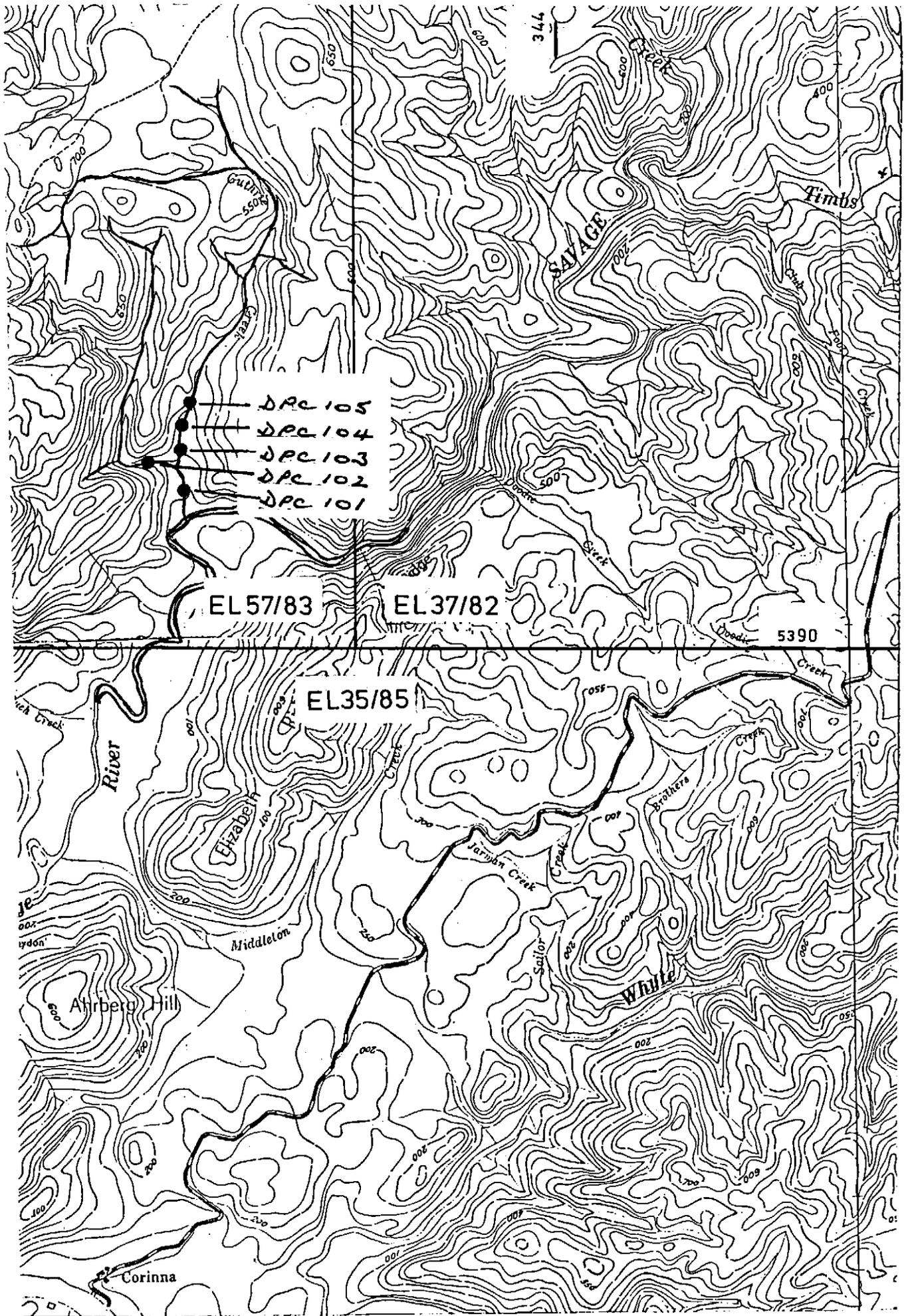
Two grains of tertiary gravel type gold.

SAMPLE DPC 105

Predominately tertiary gravel heavy mineral suite accompanied by magnetite, hematite, and epidote of local derivation.

Four fine grains of tertiary gravel type gold.

PAN CONCENTRATE SAMPLING



ENVIRONMENTAL IMPACT INFORMATION
MINERAL EXPLORATION LICENCE: APPLICATION AND RENEWAL

LICENCE APPLICATION: a completed form, in duplicate, is essential
 : answers must be provided wherever possible

LICENCE RENEWAL: all items affected by revised work programs should
 be completed.

Return to the Department of Mines: A map of suitable scale
 defining the licence area and all key sites should accompany this form.

1. **Applicant:**

Company H.D. NOLAN T/ra COMINEX
 Name of Representative H.D. NOLAN Position PROPRIETOR
 Address for Correspondence P.O. BOX 77 SORELL TAS 7172
 Telephone no. 002-658291 Fax no. _____

2. **Licence Application:**

Application no. E.L. 57/83 Date 12.1.89
 Location MT. DONALDSON Area 14 SKM

3. **Land Status:**

Uncommitted Crown/Reserve/State Forest/Conservation Area/Private
 Property etc. UNCOMMITTED CROWN & STATE FOREST
(0.5 SKM PIEMAN RIVER RESERVE)
(0.5 SKM ARTHUR PIEMAN PROTECTED AREA)

4. **Present Land Use;**

Undisturbed/pasture/cultivated/logging etc. _____
LOGGING ACTIVITIES

5. **Landscape features:**

Sand-dunes/büttongrass plain/swamps/lakes/creeks/view-points/
 proximity to reserves or national parks etc. _____
UNDULATING HILLS WITH EXTENSIVE MINOR
DRAINAGE SYSTEM INTO MAJOR RIVERS
SAVAGE & DONALDSON. PIEMAN RIVER RESERVE
& ARTHUR/PIEMAN PROTECTED AREA OCCUPY
ABOUT 1.0 SKM OF LICENCE AREA.

6. Soils:

Types and depths of soils to be disturbed by the operations, (roads, pits, costeans, drill-sites, etc.)

THIN HUMIC SOILS OVER TERTIARY GRAVELS
AND BEDROCK.

7. Flora and Fauna:

Vegetation to be affected by the operations: (rainforest/alpine moorland/buttongrass/coastal/wet or dry eucalypt forest/etc.)

WET EUCALYPT & MINOR SPECIES FOREST

8. Steps taken to reduce disturbance:

USE OF EXISTING LOGGING TRACKS.

CUT LINE GUIDELINES TO BE OBSERVED

9. Access: to be used/developed:

<u>Walking</u>	: use existing access	<u>YES</u>
	: cut new survey lines, tracks	<u>YES - 3 KM</u>
<u>Wheeled Vehicles</u>	: use existing tracks	<u>YES</u>
	: renovate old tracks	<u>NO</u>
	: construct new tracks	<u>NO</u>
<u>Tracked Vehicles</u>	: use existing tracks	<u>NO</u>
	: renovate old tracks	<u>NO</u>
	: construct new tracks	<u>NO</u>
<u>Aircraft</u>	: use old airstrips	<u>NO</u>
	: construct airstrips	<u>NO</u>
	: use old helipad	<u>NO</u>
	: renovate old helipad	<u>NO</u>
<u>Other</u>	: form new helipad	<u>NO</u>
	:	<u>-</u>

10. Equipment:

List of all mechanical equipment/vehicles, to be taken on site, and their proposed use: 4.W.D. VEHICLES FOR TRANSPORT

OF PERSONNEL & GEAR.

11. Accommodation and Staff Numbers etc.

Number in team: POSSIBLY 4 PERSONS
 Period of project: RENEWAL PERIOD
 Accommodation type,
 (hotel: hutted camp: tented camp:) SAVAGE RIVER HOTEL
9 HUTS AT CONNNA

12. Prospecting Methods: (tick where appropriate).

Geological Survey	<input checked="" type="checkbox"/>	Cutting Survey Lines	<input checked="" type="checkbox"/>
Geochemical Survey	<input checked="" type="checkbox"/>	Type(s)	_____
Geophysical Survey	_____	Method(s)	_____
Manual Digging	<input checked="" type="checkbox"/>	Mechanical Digging	_____
Manual Drilling	<input checked="" type="checkbox"/>	Mechanical Drilling	_____
Bulk Sampling	_____	Blasting	_____
Other:	_____		

13. Hazardous Materials:

Quantities on site:
 flammable liquids CHAINSAW/RUGEL FUEL
 explosives NO
 noxious chemicals NO

14. Earthworks and Land Disturbance:

(To be undertaken only with prior written permission)

Costeans : machine to be used NO
 : length:depth:number _____
Pits : machine to be used NO
 : depth:number _____
Drill-holes : machine to be used NO
 : target depth:number _____
Dams : size: site NO
 : purpose _____
Vegetation clearing (excluding tracks)
 : area NO
 : purpose _____

Other:

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15. Environmental Impacts:

Programme features likely to affect the environment and precautions taken to limit the impact, (noise, erosion, waste disposal, water pollution, fire etc.)

(a) significant visual impacts NO IMPACT OF THIS NATURE ENVISAGED

(b) pollution of water course from tracks, earthworks, drilling etc. AS ABOVE

(c) disposal of waste, litter, toilet refuse, etc. USE OF DISPOSAL FACILITIES AT ACCOMMODATION

16. Reconditioning:

Proposed methods and extent of land rehabilitation to be completed:

(a) progressively NATURAL REHABILITATION OF CUT LINES.

(b) prior to abandonment NONE ENVISAGED NECESSARY.

Information in this format should accompany each application for the issue or renewal of an exploration licence.

All correspondence should be addressed to:

The Director of Mines,
P.O. Box 56, ROSNY PARK,
Tasmania 7018

Prior written approval for each specific earthwork activity must be obtained from the Director of Mines:

A request with plan at appropriate scale must be submitted.

Copies of 'Specifications; Cut Lines, - Sensitive Areas' and 'Fire Precaution Regulations'

have been received and field staff will be directed to implement them.

Name:.....HUGH NOLAN..... Signed .....
(Block capitals)

Position ...PROPRIETOR..... Company COMINEX.... Date 15.6.89

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E.L. 57/83 RENEWAL APPLICATION 1989.

